Statement of General Conformance

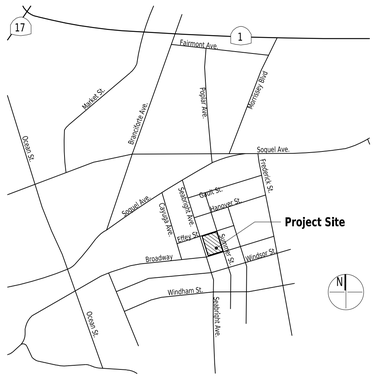
The drawings, specifications and calculations for the items as indicated on drawing index have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. These documents have been examined by me for design intent and have been found to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me.
The items listed below have been Coordinated with my plans and specifications and are acceptable for incorporation into the construction of this project for which I am the individual designated to be in general responsible charge.

The statement of General Conformance "shall not be constructed as relieving me of my rights,duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-344* of Title 24, Part 1. (Title 24, Part 1, Section 4-317(b))

Items reviewed and accepted: All Structural, Mechanical, Plumbing, Electrical, Fire Alarm, and Fire Suppression drawings, specifications, and calculations.

Mark Bartos, Architect, Bartos Architecture
CA Lic. 24138 Exp. 31-MAR-23

Vicinity Map



General Notes

DSA IS NOT SUBJECT TO ARBITRATION

All work performed under the conditions of these drawings shall comply in every respect with the following:
2019 California Administrative Code (CAC), Part 1, Title 24 CCR*
2019 California Building Code (CBC), Part 2, Title 24 CCR
(2018 International Building Code, Vol. 1 & 2, and 2019 California amendments)
2019 California Electrical Code (CEC), Part 3, Title 24 CCR
(2017 National Electrical Code and 2019 California Amendments)
2019 California Mechanical Code (CMC), Part 4, Title 24 CCR
(2018 IAPMO Uniform Mechanical Code and 2019 California amendments)
2019 California Plumbing Code (CPC), Part 5, Title 24 CCR
(2018 IAPMO Uniform Plumbing Code and 2019 California amendments)
2019 California Energy Code (CEC), Part 6, Title 24 CCR
2019 California Fire Code (CFC), Part 9, Title 24 CCR
(2018 International Fire Code and 2019 California Amendments)
2019 California Existing Building Code (CEBC), Part 10, Title 24 CCR
(2018 International Existing Building Code and 2019 California Amendments)
2019 California Green Building Standards Code (CALGreen), Part 11, Title 24 CCR
2019 California Referenced Standards Code, Part 12, Title 24 CCR
Title 19 CCR, Public Safety, State Fire Marshal Regulations
2016 ASME A17.1/CSA B44-13 Safety Code for Elevators and Escalators *(per 2019 CBC Part 2 Ch 35)*
Note: Cal/OSHA Elevator Unit enforces CCR Title 8 and uses the 2004 ASME A17.1 by adoption
Manual of Steel Construction, 15th Edition
2018 National Design Specification for Wood Construction
ACI-318-14 Code & Commentary
NFPA 13 (2016) - Standard for the Installation of Sprinkler Systems (CA amended)
NFPA 14 (2016) - Standard for the Installation of Standpipe and Hose Systems (CA amended)
NFPA 17 (2017) - Standard for Dry Chemical Extinguishing Systems
NFPA 17A (2017) - Standard for Wet Chemical Extinguishing Systems
NFPA 20 (2016) - Standard for the Installation of Stationary Pumps for Fire Protection
NFPA 22 (2013) - Standard for Water Tanks for Private Fire Protection
NFPA 24 (2016) - Standard for the Installation of Private Fire Service Mains and Their Appurtenances (CA amended)
NFPA 72 (2016) - National Fire Alarm and Signaling Code (CA amended)
NFPA 80 (2016) - Standard for Fire Doors and Other Opening Protectives
NFPA 2001 (2015) - Standard on Clean Agent Fire Extinguishing Systems (CA amended)
UL 300 (2005, R2010) - Standard for Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment
UL 464 (2003) - Audible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories
UL 521 (1999) - Standard for Heat Detectors for Fire Protective Signaling Systems
UL 1971 (2002, R2010) - Standard for Signaling Devices for the Hearing Impaired
ICC 300 (2017) - Standard for Bleachers, Folding and Telescopic Seating, and Grandstands
For a complete list of applicable NFPA standards refer to 2019 CBC (SFM) Chapter 35 and California Fire Code Chapter 80.
See California Building Code Chapter 35 for State of California amendments to the NFPA Standards.
**All parts of the 2019 California Building Code become effective January 1, 2020 except the effective date for the use of the 2019 Building Energy Efficiency Standards (Title 24, Part 1, Chapter 10) is January 8, 2019 and the effective date for the use of the California Administrative Code (Title 24, Part 1, Chapter 4) is January 8, 2019.*
Current as of October 10, 2020 Errata (CBC Volumes 1 and 2)
2010 ADA Standards for Accessible Design
Grading plans, drainage improvements, road and access requirements and environmental health considerations shall comply with all local ordinances.

Americans with Disabilities Act
It is the intent of these Documents to meet guidelines for accessibility to this public place of accommodation, by individuals with disabilities. These guidelines have been applied during design and shall be applied during construction to the extent required by CBC, DSA, and Federal agencies under the Americans with Disabilities Acts of 1990. If the Owner, Contractor or any Subcontractors become aware of any assembly or condition, either shown in the Drawings or constructed on-site, which does not, in their opinion, satisfy this intent or meet industry standards for construction quality, it is their responsibility to notify the Architect within a reasonable amount of time so that the condition or assembly can be reviewed, and, if necessary, modifications can be made to the Documents or to the Work without impacting the progress.

California Title 24
The intent of these drawings and specifications is that the work of the alteration is to be in accordance with Title 24, CCR. Should any existing conditions such as deterioration or non-complying construction be discovered which is not covered by the contract documents wherein the finished work will not comply with Title 24, CCR, a construction change documents, or a separate set of plans and specifications, detailing and specifying the required work shall be submitted to and approved by DSA before proceeding with the work, (Section 4-317(c), Part 1, Title 24, CCR)

Administrative Requirements
Administration of construction contract shall be per 2019 Part I, Title 24 California Code of Regulations (CCR); Duties of Architect, Structural Engineer or Professional Engineer per Section 4-333(a) & 4-341. Duties of Contractor per Section 4-343. Supervision by DSA per Section 4-334.

The Contractor shall keep a copy of Title 24, Part I & II, available in field during construction.

Start of Construction
DSA shall be notified at Start of Construction per Section 4-331.

Changes
Work shall be executed strictly in accordance with approved plans, addenda, and change orders. Such addenda and construction change documents shall be prepared in accordance with Section 4-338, Part I, Title 24 CCR.

Inspections
Inspector must be approved by Division of the State Architect (DSA) and employed by District. Inspector and continuous inspection of work shall be per Section 4-333(b) and 4-342. Class 2/RBIP required.

Testing
Tests & Testing Laboratory, required by T&I list, shall be accomplished in accordance with Section 4-335, Special inspections per Section 4-333(c). Lab shall be hired by the District. Laboratory shall be accepted by DSA and perform all required tests and inspections for this project.

Reports
Contractor, Inspector, Architect, Engineers shall submit verified reports per Section 4-336 & 4-343(c).

Site Examination
The Contractor shall thoroughly examine the site and satisfy himself as to the conditions under which the Work is to be performed. The Contractor shall verify at the site all measurements and conditions affecting his work and shall be responsible for same unless brought to the attention of the Owner or his agent prior to proceeding with the Work. Commencement of work by Contractor or any Subcontractor shall indicate a knowledge and acceptance of all conditions described in the Documents or existing on site which could affect their work.

Moisture Proof Interior Spaces
It is the intent of these Documents to provide for the construction of a moisture proof enclosure of interior space. If the Owner, Contractor or any Sub-contractors become aware of any assembly or condition, either shown in the Drawings or constructed on-site, which does not, in their opinion, satisfy this intent, it is their responsibility to notify the Architect within a reasonable amount of time so that the condition or assembly can be reviewed, and, if necessary, modifications can be made to the Documents or to the Work without impacting the progress.

Moisture Protection During Construction
Should any special situations or climatic conditions occur during construction the Owner, Contractor and Sub-contractors shall so notice and implement any measures required to assure the protection of materials and assemblies. The Contractor shall take all necessary measures to protect new or existing construction and materials from damage due to weather or any other adverse conditions.

Use of Site
Work shall occur while portions of the site are occupied by the Tenant. Contractor is fully responsible for site safety and control of public access near work zones. Roadways shall be maintained clear of construction equipment or materials at all times. Existing landscaping shall be protected as required to prevent any damage to plants and trees unless specified for removal in plans or by Owner.

Use of Documents
No guarantee for quality of construction is implied or intended by these Documents. The Contractor shall assume full responsibility for any construction deficiencies.

All Contract Documents described in the Construction Contract shall be considered one document and are intended to be used as one document. Contractor and all sub-contractors shall review all documents prior to bidding. Sub-contractors are responsible for any information pertaining to their work no matter where it may occur in these Documents.

Dimension Control
All dimensions and conditions shall be checked and verified, both in the Documents and on the job, by Contractor and each Sub-contractor before proceeding with the work. Any errors, omissions, discrepancies or deficiencies shall be brought to the attention of the General Contractor prior to proceeding with the Work. All dimensions take precedent over scale. Where dimensions are not entirely clear the Contractor shall notify the Architect and request clarification.

DRAWINGS SHALL NOT BE SCALED

General Construction Document Notes
All dimensions given take precedence over scale. Contractor shall not scale drawings to determine dimensions without consulting the Architect. Contractor shall review all dimensions for accuracy prior to construction.

Dimensions given as "CLR" are to face of finish. Otherwise, all dimensions are to face of stud/structure unless other wise noted.

Repeating items or assemblies may not be noted or dimensioned at all occurrences where repetition is obvious or noted as typical.

Refer to Demolition Plan for items to remain, items to be salvaged and/or relocated. Unless indicated elsewhere.

Refer to Opening Schedule for new windows, doors, and store front systems. Unless indicated elsewhere.

Refer to Casework Schedule for casework, countertops, and bookcases. Unless indicated elsewhere.

Refer to Interior Elevations for locations of all trims, fixtures, casework, and accessories. Unless indicated elsewhere.

Refer to Structural and Electrical drawings for information and requirements. Not necessarily indicated in Architectural drawings.

Refer to Electrical drawings for location of light fixtures, switches, etc. Contractor shall coordinate framing to accommodate recessed fixtures and other items with critical locations.

Refer to Structural Drawings for location of special floor and wall framing, special connections, anchorages.

Contractor shall include all required concrete sawcutting and concrete repair for (N) underground plumbing and electrical work.

Electrical and operable devices to be max 48" to top of device U.N.O.

All items not identified as "(E)" or "Existing" are new.

Compliance with 2019 CFC Chapter 33 Fire Safety during construction and demolition and CBC Chapter 33, safeguards during construction will be enforced.

General DSA Notes
No changes or revisions shall be made following written approval which affects access compliance items unless such changes or revisions are submitted to the DSA for approval.

Substitutions affecting DSA regulated items shall be submitted as a construction change document or addenda, and shall be approved by DSA prior to fabrication and installation.

Construction change documents must be signed by the following:
- Architect of Record AND
- Structural Engineer (When applicable)
- Delegated professional engineer
- DSA

Materials and their installation shall comply with applicable codes, standards and manufacturer's reccomendations

Per CBC 11B-104.1 "All dimensions are subject to conventional industry toleraces except where the requirement is stated as a range with specific minimum and maximum end points.

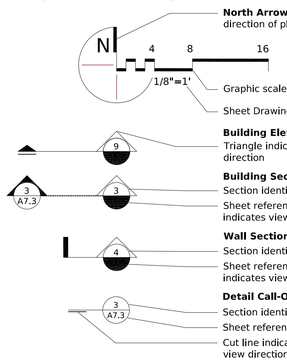
No deferred submittals for this project.

Deterioration or Existing Non-Compliant Construction
If any condition is discovered which, if left uncorrected, would make the building non-compliant with the requirements of the edition of the CBC in force at the time of original construction, the condition must be corrected in accordance with current code requirements. A construction change document (CCD Type A), or a separate set of plans and specifications detailing and specifying the required repair work shall be submitted to and approved by DSA before proceeding with the repair work or where tolerances are specifically called out on drawings or specifications.

Abbreviations

@	At	E	East	MUL	Mullion	W B	White Board
X	By	EA	Each	MULD	Moulding	W C	Water Closet
℄	Center Line	E F	Exhaust Fan	N	North	W/	With
°	Degrees	E J	Expansion Joint	N/A	Not Applicable	W I	Woodwork Institute
Ø	Diameter	E/S	Each Side	N I C	Not In Contract	W/O	Without
(E)	Existing	ELEC	Electrical	NOM	Nominal	WD	Wood
(D)	Demolish	ELEV	Elevation	N R	Not Required	WP	Waterproof
'	Foot/Feet	EMER	Emergency	N T S	Not To Scale	WT	Weight
"	inch/inches	E P	Electrical Panel	OA	Overall		
(N)	New	EQ	Equal	O C	On Center		
±	Plus/Minus	EQUIP	Equipment	O F S	Off Face of Stud		
(R)	Remove	F A	Fire Alarm	O H	Overhang		
		F D	Floor Drain	OPG	Opening		
A B	Anchor Bolt	F D C	Fire Department Connection	OPP	Opposite		
ABV	Above	FDN	Foundation	O/	Over		
A C	Asphaltic Concrete	F E	Fire Extinguisher	P A	Planting Area		
ADJ	Adjustable	F G	Finished Grade	P C	Portland Cement		
A F F	Above Finished Floor	F H	Fire Hydrant	PDF	Powder Driven Fastener		
ALUM	Aluminum	FIN	Finish	P H	Panic Hardware		
ANCH	Anchor	F O C	Face Of Concrete	P I P	Protect in Place		
A P	Access Panel	F O F	Face Of Finish	PL	Plate		
ARCH	Architectural	F O M	Face Of Masonry	P LAM	Plastic Laminate		
ASPH	Asphalt	F O S	Face Of Stud	PLWD	Plywood		
BD	Board	FRMG	Framing	PR	Pair		
BLDG	Building	F S	Finished Surface	P T D F	Pressure Treat Doug Fir		
BLK	Block	FTG	Footing	R C P	Reflected Ceiling Plan		
BLKG	Blocking	FUT	Future	R D	Roof Drain		
BM	Beam	GALV	Galvanized	REF	Refer To:		
B O	Bottom Of	G B	Grade Break	REINF	Reinforced		
BOT	Bottom	GC	General Contractor	REQD	Required		
B/T	Between	GL	Glass	RM	Room		
BW	Bottom of Wall	GR	Grade	R O	Rough Opening		
C	Conduit	GSM	Galvanized Sheet Metal	RR	Roof Rafter		
CAB	Cabinet	GYP	Gypsum	R W L	Rain Water Leader		
C B	Catch Basin	H B	Hose Bib	S	South		
C I	Cast Iron	HDG	Hot Dipped Galvanized	S A T	Suspended Acoustic Tile		
C J	Construction Joint	HDW	Hardware	SCH	Schedule		
CLG	Ceiling	HM	Hollow Metal	SEC	Section		
CLR	Clear	HR	Hour	SHT	Sheet		
COL	Column	HT	Height	S O V	Shut Off Valve		
CONC	Concrete	I D	Inside Diameter	SPEC	Specification		
CONST	Construction	I E	Invert Elevation	SS	Sanitary Sewer		
CONT	Continuous	INSUL	Insulation	STD	Standard		
CORR	Corridor	INT	Interior	STO	Storage		
CTR	Center	INV	Invert	STRUC	Structural		
CTSK	Countersink	I T	Information Technology	SUSP	Suspended		
CUST	Custodial	J H	Joist Hanger	T B	Tack Board		
C O T G	Clean Out To Grade	JT	Joint	T G	Top of Grate		
C W	Cold Water	LAM	Laminate	T O	Top Of		
D B L	Double	LAV	Lavatory	T O C	Top Of Concrete		
DEMO	Demolition	LT	Light	T O P	Top Of Plate		
DET	Detail	MAX	Maximum	T O S	Top Of Slab		
D F	Drinking Fountain	M B	Marker Board	T O W	Top Of Wall		
DIA	Diameter	MFR	Manufacturer	U N O	Unless Noted Otherwise		
DIM	Dimension	MH	MANHOLE	V C T	Vinyl Composite Tile		
DN	Down	MIN	Minimum	V C TB	Vinyl Covered Tackboard		
DR	Door	MR	Moisture Resistant	V I F	Verify in Field		
D S	Downspout	MTD	Mounted	W	Waste		
DWG	Drawing	MTL	Metal	W	West (elevation dwg's)		

Legend & Symbols



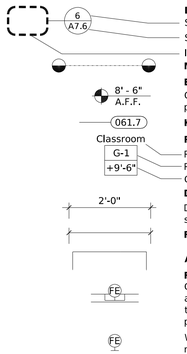
North Arrow/Graphic Scale
direction of plan north
Graphic scale
Sheet Drawing Scale

Building Elevation Reference
Triangle indicates view direction

Building Section Reference
Section identification
Sheet reference, triangle indicates view direction

Wall Section Reference
Section identification
Sheet reference, triangle indicates view direction

Detail Call-Out
Section identification
Sheet reference
Cut line indicates view direction



Detail Call-Out
Section identification
Sheet reference
Indicated area

Match Line

Elevation/Control Point
Control point, work point, or datum point

Keynote Number

Room Identification
Room name
Room number
Ceiling height within room

Dimension
Dimension are from face of stud to face of stud. UNO

Face of Finish

Align

Fire Extinguisher (2A10BC)
Cabinet mounted, handle max 4'-0" a.f.f, refer interior elevations, District to provide extinguisher, contractor to provide blk'g & installation

Wall mounted, handle max 4'-0" a.f.f. refer interior elevations. District to provide extinguisher, contractor to provide blk'g & installation

Santa Cruz City Schools

New Modular Classroom Building

Kindergarten through Second grade students are not permitted to occupy the 2nd floor of this building.

Gault Elementary School
Santa Cruz, California

Project Directory

District
Santa Cruz City Schools
133 Mission St., #100
Santa Cruz, California 95060
(831) 429-3410

Civil Engineer
American Consulting Engineers
Electrical, Inc.
5300 Soquel Avenue, Suite 101
Santa Cruz, California 95062
(831) 426-5313

Modular Manufacturer
American Modular Systems
787 Sprekles Ave.
Manteca, California 95336
(209)825-1291

Architect
Bartos Architecture
1730 S. Amphlett Blvd., Suite 225
San Mateo, California 94402
(650) 340-1221

Electrical Engineer
American Consulting Engineers
Electrical, Inc.
100 Saratoga Avenue, Suite 200
Santa Clara, California 95051
(408) 236-2312

Fire Protection Engineer
Cypress Engineering
8 Harris Ct., Suite A8
Monterey, California 93040
(831) 218-1802

Landscape Architect
John Cahalan Landscape Architect
250 Beaver Creek Rd.t., Suite 101-47
Oregon City, Oregon 97045
(503)631-8634

Project Scope

Construction and Installation of a new, 2-story, 9600 SF modular classroom/MPR building. Installation of a new modular elevator

Demolition and utility disconnection of 2 existing portable classroom buildings, demolition of existing hardscape, landscape and chainlink fencing. Modification to existing utilitiy systems as required to serve new modular classroom, New hardscape, landscape and chainlink fencing.

Contractor's scope includes but is not limited to all items shown on Architectural, Civil, Electrical--including interior and exterior connection of services and devices--Fire Alarm and Fire Engineering.
Modular building and structural foundation are separate contract.

Project is submitted as a single DSA application: No:01-119989.

•All work shall conform to 2019 Title 24, California Code of Regulations (CCR).

•Changes to the approved drawings and specifications shall be made by an addendum or a construction changed document (CCD) approved by the Division of the State Architect, as required by Section 4-338, Part 1, Title 24, CCR.

•A "DSA Certified" project inspector employed by the District (Owner) and approved by the DSA shall provide continuous inspection of the work. The duties of the inspector are defined in Section 4-342, Part 1, Title 24, CCR.

Drawing Index

Architectural
A0.0 Title Sheet and Drawing Index
A0.1 Site Accessibility Plan
A0.2 Building Code Analysis
A0.3 Site Plan Fire Department
A0.4 Demolition Site Plan
A0.5 Architectural Site Plan
A0.6 Kitchen/Mechanical Plan
A0.7 Wall Details
1 Kitchen Hood Drawing
2 Kitchen Hood Specs
Electrical
E0.1 Electrical Cover Sheet
E1.1 Demolition Electrical Site Plan
E1.2 New Electrical Site Plan
E1.3 Egress Lighting Plan
E2.1 Electrical Floor Plans
E3.1 Electrical Under Floor Plan
E4.1 Single Line Diagram
E5.1 Data Riser Diagram
E5.2 AV & Intrusion Riser Diagrams
E5.3 Cafeteria AV Riser Diagram
E6.1 Electrical Details
E6.2 Electrical Details
Fire Alarm
FA0.1 Fire Alarm Cover Sheet
FA1.1 Fire Alarm Site Plan
FA2.1 Fire Alarm Floor Plans
FA3.1 Fire Alarm Riser Diagram
FA3.2 Fire Alarm Battery Calculations
FA4.1 Fire Alarm Cover Sheet
Civil
C0.0 General Notes, Abbreviations, and Legend
C0.1 Specifications and Agency Standard Notes
C1.0 Agency Standard Details
C1.1 Details
C1.2 Details
C2.0 Grading and Drainage Plan
C3.0 Utility Plan
C4.0 Paving Plan
C5.0 Erosion Control Notes and Details
C5.1 Erosion Control Plan
Fire Engineering
FP0.1 Symbol Legends, Abbreviations, Notes - Fire Protection
FP0.2 Details - Fire Protection
FP1.1 Site Plan - Fire Protection
Landscape Architecture
L-1.0 Irrigation Plan
L-2.0 Planting Plan
L-3.0 Irrigation Details
L-4.0 Planting Details
L-5.0 Specifications

Modular Drawing Index

Architectural
TS Title Sheet
TS2 Sheet Index
N1.0 General Notes & Specifications
N1.0A Below Grade Concrete Mix Design Requirements
N2.0 General Notes & Specifications
N3.0 Typical Schedules Doors, Windows & Finishes
N4.0 Accessibility Standards & Details
EN.1 Energy Calculations
EN.2 Energy Calculations
EN.3 Energy Calculations
EN.4 Energy Calculations
A1.0 Ground Floor Plan
A1.1 Upper Floor Plan
A2.0 Roof Plan
A2.1 Typical Roof Details
A2.2 Building Section
A3.0 Restroom Floor Plan
A4.0A Interior Elevations @ Ground Floor
A4.0B Interior Elevations @ Ground Floor
A4.0C Interior Elevations @ Ground Floor
A4.0D Interior Elevations @ Upper Floor
A4.1 Interior Elevations @ Restrooms
A5.0 Typical Exterior Elevations W/ Stucco Finish
A5.1 Typical Details For Stucco Exterior Finish Option
A5.1A Deterioration Details - Stucco Finish Concrete Floor
A5.1B Architectural Details
A7.2 Miscellaneous Architectural Details
A8.0 Fire-Rated Construction Details
A8.2 HVAC Chase & Shaft Details
A8.3 Fire-Rated Construction Details
A8.4 Fire-Rated Construction Details
A8.5 Fire-Rated Construction Details
Structural
S0.0 Light Gauge Steel Member Properties
S1.0 Foundation Plan
S1.0A Footing Schedules
S1.1 Foundation Details
S1.2 Foundation Details
S1.3 Foundation Details
S1.4 Foundation Details
S2.0 Ground & Upper Floor Framing Plans
S2.1 Floor Framing Details
S3.0 Ground Floor Roof Framing Plan
S3.1 Roof Framing Details Ground Floor
S4.0A Mansard Roof Framing Plan
S4.0 Upper Floor Roof Framing Plan
S4.1 Upper Floor Roof Framing Details
S4.2 Mansard Framing Wood Framed Details
S5.0 Transverse Building Section
S5.1 Longitudinal Building Section
S5.2 Moment Frame Connection Details
S5.3 Moment Frame Connection Details
S9.0 Wall Framing Elevations Metal Studs
S9.1 Wall Framing Details Metal Studs
S9.2 Wall Framing Details Metal Studs
S9.3 4" Wall Bump-Outs - Metal Framed Details
S9.4 Optional Wall Bump-Outs - Metal Framed Details
S10.0 Balcony Floor Plan And Details
S11.0 Stair Railing And Guardrail Details
S11.1C Stair Plan And Elevation Option #1C (Uncovered Switchback Stairs)
S11.1E Stair Option #1 (Uncovered Switchback Stairs) Foundation Plans & Details
S11.6 Upper Landing Framing Plans And Details
S11.7 Stair Details
Mechanical
M1.0A Reflected Ceiling Plan Ground Floor
M1.0B Reflected Ceiling Plan Upper Floor
M1.1A Mechanical Plan Ground Floor
M1.1B Mechanical Plan Upper Floor
M1.4 HVAC & Ceiling Details
M1.5 Ceiling & Mechanical Details
M1.6 Mechanical Roof Details
M1.7 Ceiling Notes, Mechanical Notes & Schedules
Electrical
E1.0 Ground Floor Electrical Floor Plan
E1.1 Upper Floor Electrical Plan
E1.2 Electrical Notes & Details
E1.3 Electrical Notes & Details
E1.3A Electrical Panel Schedules & Notes
Plumbing
P1.0 Restroom Option Plumbing Plans & Fixture Schedule
P3.0 Plumbing Details & Accessible Details
P4.0 Plumbing Isometrics Drawings
Fire Sprinklers
FS-1 Fire Sprinkler Cover Sheet
FS-2 Fire Sprinkler Layout / Piping Plan: 2 - Story
Elevator PC
S1 Cover Sheer
S1A Testing & Inspection
S1B Testing & Inspection
S2 General Notes
S3 Foundation Plan
S3.1 Foundation Details
S4 Hoistway Roof Plan
S4.1 Hoistway Roof Details
S5-1 Hoistway Plan & Sections Max 44'-0" Tower HT
S5.1 Hoistway Details
S5.2 Miscellaneous Details
S5.3 Hoistway Wall Panels
S6 Machine Room Framing Plan & Details (Partial Machine Room)
S7 Rail & Power Unit Details
VT1 Elevator Data
VT2 Elevator Layout (Partial Machine Room)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
300 8th Avenue
Suite 202 San Mateo
California 94401
www.bartosarchitecture.com

LICENSED ARCHITECT
MARK BARTOS
No. C-24138
REGISTERED
31-MAR-23
STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building
Building Site Package

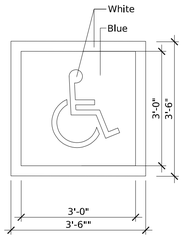
Gault Elementary School

REVISION	DATE
DSA Submittal	3/8/2022
DSA Backcheck	9/15/2022

Title Sheet and Drawing Index

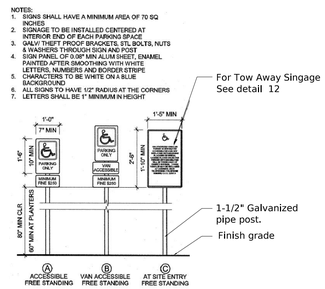
A0.0

BA 17-005.5



Accessible Parking Symbol 16
N.T.S.

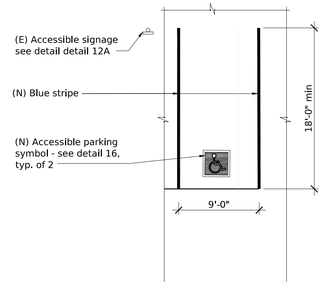
Tow Away Signage 12
Sign R100B
Caltrans Standard Plan A90A



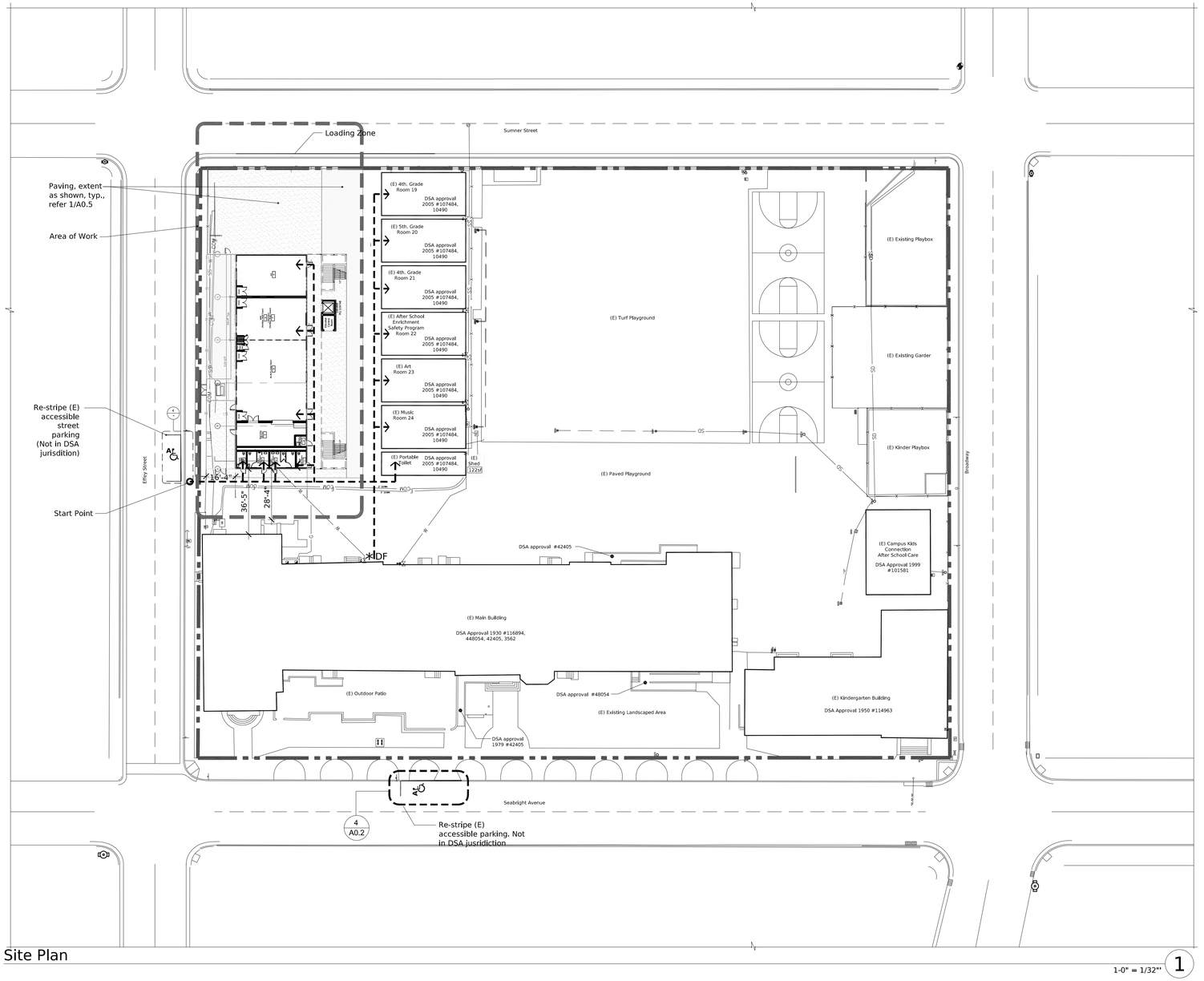
Accessible Parking Signage 8
Caltrans Standard Plan A90A
N.T.S

Protect all existing items noted to remain. Any damage will be Contractors responsibility

All Striping on concrete shall be blue



Accessible Parking Stall 4
1"=1'-0"



Site Plan
1-0" = 1/32"' 1

Legend

Property Line

Path of Travel

Drinking Fountain *DF

(E) Accessible Parking

Parking Count

Accessible Standard Parking Spaces 2

Minimum number of required accessible parking spaces = 1

Accessible Path of Travel

"Design Professional in General Responsible Charge Statement: The POT identified in these construction documents meets the requirements of the current applicable California Building Code (CBC) accessibility provisions for path of travel requirements for alterations, additions and structural repairs. As part of the design of this project, the POT was examined and any elements, components or portions of the POT that were determined to be non-compliant with the CBC have been identified and the corrective work necessary to bring them into compliance has been included within the scope of this project's work through details, drawings and specifications incorporated into these construction documents. Any noncompliant elements, components or portions of the POT that will not be corrected by this project based on valuation threshold limitations or a finding of unreasonable hardship are indicated in these construction documents.

During construction, if POT items within the scope of the project represented as CBC compliant are found to be nonconforming beyond reasonable construction tolerances, the items shall be brought into compliance with the CBC as a part of this project by means of a construction change document.

Accessible Path of travel as indicated on plan is a barrier-free access route without abrupt level changes exceeding ½" if beveled at 1:2 maximum slope or vertical level changes not exceeding ¼" maximum and at least 48" in width. Surface is stable, firm, and slip-resistant. Cross-slope shall not be steeper than 1:48 and slope in the direction of travel shall not be steeper than 1:20. Accessible path of travel shall be maintained free of overhanging obstructions to 80" minimum and free of objects protruding more than 4" from the wall, above 27" and less than 80" above the floor. Architect shall verify that there are no barriers in the path of travel.

Energy Code Requirements

The California Energy Code Section 10-103 requires Acceptance Testing on all newly installed lighting controls, mechanical systems, envelopes, and process equipment after installation and before project completion. An Acceptance Test is a functional performance test to help ensure that newly installed equipment is operating and in compliance with the Energy Code.

Lighting controls acceptance tests must be performed by a certified lighting controls Acceptance Test Technician (ATT).

Mechanical system acceptance tests must be performed by a certified mechanical ATT for projects submitted on or after October 1, 2021.

Envelope and process equipment acceptance tests shall be performed by the installing contractor, engineer/architect of record or the owner's agent.

A listing of certified ATT can be found at: https://www.energy.ca.gov/programs-and-topics/programs/acceptance-test-technician-certification-provider-program/acceptance.

The Acceptance Testing procedures must be repeated, and deficiencies must be corrected by the builder or installing contractor until the construction/installation of the specified systems conform and pass the required acceptance criteria.

Project inspectors will collect the forms to confirm that the required Acceptance Tests have been completed.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
300 8th Avenue
Suite 202 San Mateo
California 94401
www.bartosarchitecture.com

LICENSED ARCHITECT MARK RICHARD BARTOS C-28132 EXP. 8-31-23 STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building
Building Site Package

Gault Elementary School

REVISION	DATE
DSA Submittal	3/8/2022
DSA Backcheck	9/15/2022

N
16 32 64
1/32"=1'-0"

Site Accessibility Plan

A0.1

BA 17-005.5

Code Analysis

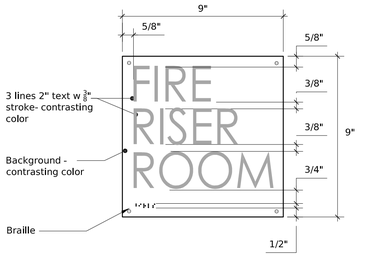
Room	Description	Activities	Chap 3 Occ. Group	Section 903.2.3 NFPA 13 Automatic Sprinkler System Required/ Haz. Class	Table 1004.5 Area (clear interior sf)	Load Factor	Occ. Load	Section 1004 Inter-vening Room	Section 1006 Common Path of Egress Travel (ft)	Section 1006 Number of Exits Required	Section 1017 Exit Access Travel Distance (ft)
First Level											
Room 14	Restroom	Restroom	E	Fully Sprinkler	53	NA	NA	-	< 75'	1	< 250'
Room 13	Restroom	Restroom	E	Fully Sprinkler	114	NA	NA	-	< 75'	1	< 250'
Room 12	Restroom	Restroom	E	Fully Sprinkler	135	NA	NA	-	< 75'	1	< 250'
Room 11	Restroom	Restroom	E	Fully Sprinkler	53	NA	NA	-	< 75'	1	< 250'
Room 10	Warming Kitchen	Kitchen	E	Fully Sprinkler	484	200	2	-	< 75'	1	< 250'
Room 8 (opt. A)	MPR	Dining, Assembly	A-3	Fully Sprinkler	2529	7	362	-	<75'	2	<250'
Room 8 (opt B)	Cafeteria	Dining	A-3	Fully Sprinkler	1672	15	112	-	<75'	2	<250'
Room 7 (opt B)	Classroom	Student Learning	E	Fully sprinkler	840	20	42			1	
Room 6	Art Classroom	Students Learning	E	Fully Sprinkler	832	20	42	-	< 75'	1	< 250'
Second Level											
Room 1	Classroom	Students Learning	E	Fully Sprinkler	808	20	41	-	< 75'	1	< 250'
Room 2	Classroom	Students Learning	E	Fully Sprinkler	811	20	41	-	< 75'	1	< 250'
Room 3	Classroom	Students Learning	E	Fully Sprinkler	811	20	41	-	< 75'	1	< 250'
Office 4	Classroom	Students Learning	E	Fully Sprinkler	811	20	41	-	< 75'	1	< 250'
Office 5	Classroom	Students Learning	E	Fully Sprinkler	808	20	41	-	< 75'	1	< 250'

Signage Schedule

Key	Type	Main Area
01	3/N4.0	Gender Neutral
02	3/N4.0	Boys
03	3/N4.0	Girls
04	3/N4.0	Staff
05	5/N4.0	Custodian
06	5/N4.0	8
07	10/N4.0	Exit
08	5/N4.0	7
09	10/N4.0	Exit
10	5/N4.0	6
11	15/N4.0	Exit
12	3/-	Fire Riser Room
13	15/N4.0	Exit
14	5/N4.0	Cafeteria
15	15/N4.0	Exit
16	5/N4.0	Kitchen
17	5/N4.0	Mechanical
18	5/N4.0	Elevator
19	5/N4.0	1
20	5/N4.0	2
21	5/N4.0	3
22	5/N4.0	4
23	5/N4.0	5
24	5/N4.0	Elevator
25	17/N4.0	Assisted Listening
26	17/N4.0	Assisted Listening
27	17/N4.0	Assisted Listening
28	17/N4.0	Assisted Listening
29	17/N4.0	Assisted Listening
30	17/N4.0	Assisted Listening
31	17/N4.0	Assisted Listening
32	17/N4.0	Assisted Listening
33	11/N4.0	Max. Occupancy With wall Open 362
34	11/N4.0	Max. Occupancy With Wall Closed 42
35	11/N4.0	Max. Occupancy
36	11/N4.0	Max. Occupancy
37	11/N4.0	Max. Occupancy
38	11/N4.0	Max. Occupancy
39	11/N4.0	Max. Occupancy
40	11/N4.0	Max. Occupancy
41	11/N4.0	Max. Occupancy With Wall Closed 112
42	10/N4.0	KITCHEN SHALL BE USED AS A WARMING KITCHEN ONLY. NO COMMERCIAL COOKING ALLOWED.

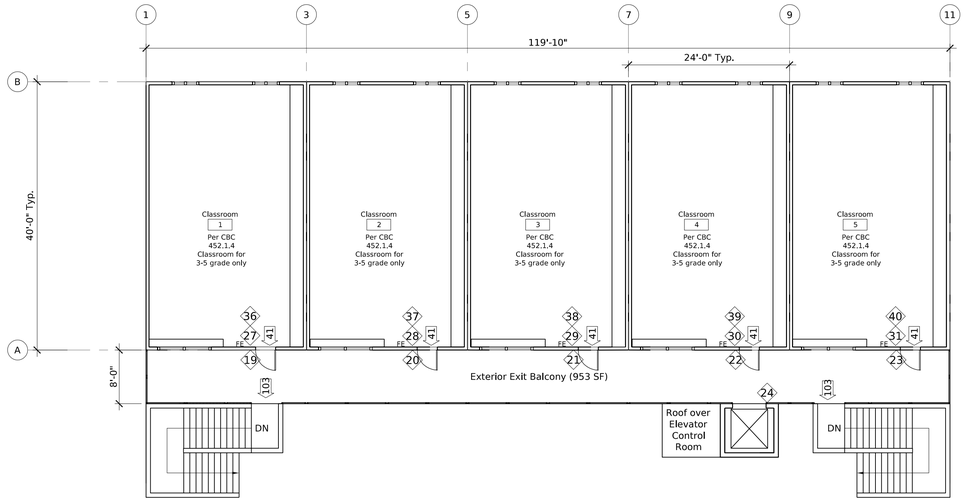
Refer to sheet N4.0 for additional notes and details.

Sign and identification devices shall be field inspected and approved by the enforcing agency prior to issuance of final certificate of occupancy per Chapter 1. The inspection shall include, but not be limited to, verification the Braille dots are properly sized and spaced, proportion and type of raised characters are in compliance with these regulations.



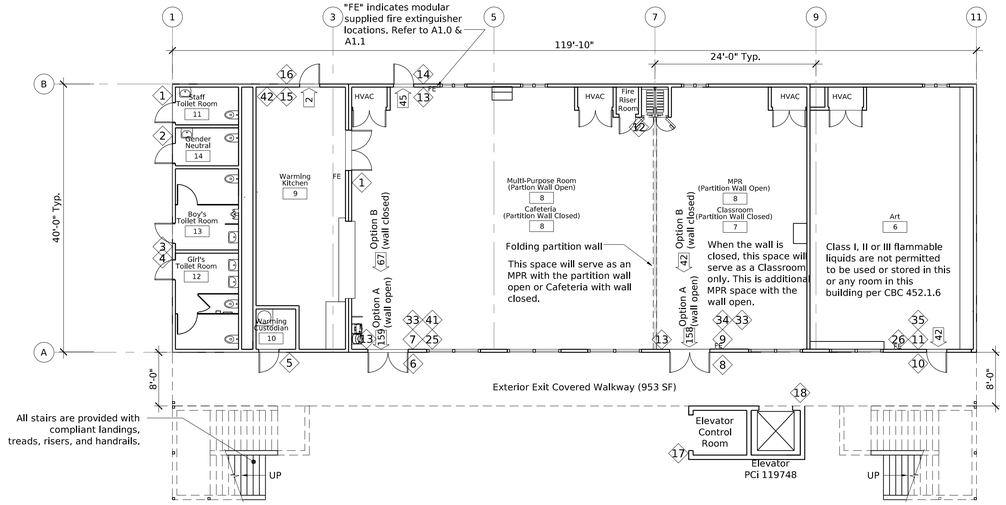
Fire Riser Room Signage 3

3"=1'-0"



Second Level Floor Plan

3/32"=1'-0" 2



Ground Level Floor Plan

3/32"=1'-0" 1

Code Analysis (CBC 2019

Summary of Analysis:

Use, Occupancy or Building Area

◦ E Occupancy with an A-3 space

◦ Type VB construction (non-rated)	Automatic Fire Sprinkler
First Floor	4,800 sf
Second Floor	4,800 sf
Total	9,600 sf

1. Building Areas

Gault Elementary School- New Classroom Building

E Occupancy Allowable height per table 504.3

Max. allowable height 60 ft (with a compliant sprinkler system and without area increase)

E Occupancy Allowable stories above grade per table 504.4

Max allowable 2 stories (with compliant sprinkler system and without height increase)

E Occupancy Allowable Floor Area per table 506.2

Max. allowable floor area — 28,500 sf (with a compliant sprinkler system and without height increase)

2. Use & Occupancy Classification

1. Occupancy Type:

Group E with an A-3 space

2. Occupancy Separations

No occupancy separation required per 303.1.3 (CBC 2019)

3. Requirements for Occupancy Type E

Automatic sprinkler system required per Section 903.3.1.1 (CBC 2019)

3. Construction Type

1. Building Construction Type : Type VB

Wood structure, non-rated

4. Fire Protection System

1. The proposed building is equipped with an automatic fire sprinkler system throughout per 2019 CBC 903.

5. Means of Egress

1005.3.2 Egress Components

The capacity, in inches, of means of egress components other than stairways shall be calculated by multiplying the occupant load served by such component by a means of egress capacity factor of 0.2 inch (5.1 mm) per occupant. MPR (wall open): 362*.3=109" min. (180" provided) Cafeteria (wall closed): 112*.3=33.6" min (108" provided)

1005.5 Minimum Width and Required Capacity

Where more than one exit, or access to more than one exit, is required, the means of egress shall be configured such that the loss of any one exit, or access to one exit, shall not reduce the available capacity or width to less than 50 percent of the required capacity or width. MPR (with wall open) min. egress width=56" (108" provided) Cafeteria (wall closed) min. egress width = 19" (36" provided)

1010.1.9.8 Delayed Egress

Group E classrooms with an occupant load of less than 50 that are equipped throughout with an automatic sprinkler system and an approved automatic smoke detection system shall be permitted to install delayed egress locking system on doors.

1029.3.1 Egress Courtyard

Where an egress court serving a building or portion thereof is less than 10 feet (3048 mm) in width, the egress court walls shall have not less than 1-hour fire-resistance-rated construction for a distance of 10 feet (3048 mm) above the floor of the egress court. Openings within such walls shall be protected by opening protectives having a fire protection rating of not less than 3/4 hour.

This project does not have any egress courtyards that are less than 10' wide. The courtyard off of the Kithen and Cafeteria is 16' wide

6. Assistive Listening Systems & Signage

11B-219 & 11B-706 **For each school, provide 2 portable assistive listening systems, each with a transmitter and a minimum of 2 receivers, for use in the classrooms without audio amplification. The assistive listening receivers and transmitter shall be stored in the school site administration office until requested. The system shall be hearing aid compatible.**

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
300 8th Avenue
Suite 202 San Mateo
California 94401
www.bartosarchitecture.com

LICENSED ARCHITECT MARK BARTOS No. C-34738 STATE OF CALIFORNIA 31-12-2022

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building
Building Site Package

Gault Elementary School

REVISION	DATE
DSA Submittal	3/8/2022
DSA Backcheck	9/15/2022

N 1 5 10 20
3/32"=1'-0"

Building Code Analysis

A0.2

BA 17-005.5

CITY OF SANTA CRUZ

WATER ENGINEERING
212 Locust Street, Suite C, Santa Cruz CA 95060 Phone (831) 420-5200 Fax (831) 420-5201

October 26, 2020

Re: HYDRANT FIRE-FLOW DATA – 1320 SEABRIGHT AVE.

Hydrant#	Static	Residual	Flow	Flow@20	Test Date
531[1]	90 psi	78 psi	650 gpm	1,685 gpm	05/06/2010

Re: HYDRANT FIRE-FLOW DATA – 1320 SEABRIGHT AVE.

Hydrant#	Static	Residual	Flow	Flow@20	Test Date
532[1]	92 psi	84 psi	1,300 gpm	4,258 gpm	05/06/2010

Re: HYDRANT FIRE-FLOW DATA – 1320 SEABRIGHT AVE.

Hydrant#	Static	Residual	Flow	Flow@20	Test Date
535[1]	90 psi	86 psi	1,244 gpm	5,835 gpm	05/06/2010

October 4, 2021

Re: HYDRANT FIRE-FLOW DATA – GAULT ELEMENTARY

Hydrant#	Static	Residual	Flow
11281	88 psi	76 psi	1061 gpm 2708 gpm 10/01/2021

1Steamer Hydrant is located at the intersection of Sumner St. & Effey St. The 6" hydrant is connected to a 4" water main.

July 5, 2022

Re: HYDRANT FIRE-FLOW DATA – Gault Elementary

Hydrant#	Static	Residual	Flow@20 Test Date
5311	92 psi	84 psi	712 gpm 2332 gpm 06/24/2022

1Hydrant is located on NW corner of intersection of Seabright Ave and Effey St. The 6" steamer hydrant is connected to a 6" water main.

DSA **810**

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy *PL 09-01: Fire Flow for Buildings*.

PROJECT INFORMATION	
School District/Owner:	Santa Cruz City School District
Project Name/School:	Gault Elementary: New Classroom Building
Project Address:	1320 Seabright Ave. Santa Cruz 95062

FIRE & LIFE SAFETY INFORMATION				
1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☑		No ☐
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☑		No ☐
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? *(If yes, indicate FHSZ classification below.)*	Yes ☐		No ☑
	Refer to the following website for FHSZ locations: http://egis.fire.ca.gov/FHSZ/	Moderate ☐	High ☐	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*			WIFA ☐

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED			
		Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.			✔	
4a.	**Acceptable Alternate:** Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.				
5.	**Fire Hydrants:** Number and spacing does not meet CFC requirements.			✔	
5a.	**Acceptable Alternate:** Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.				
6.	**Fire Hydrants:** Water flow and pressure are less than CFC minimum.			✔	
6a.	**Acceptable Alternate:** The available flow and pressure is acceptable for providing fire suppression and protection of life and property.				
7.	Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.			✔	
7a.	**Acceptable Alternate:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				

School District Acceptance of Acceptable Design Alternates

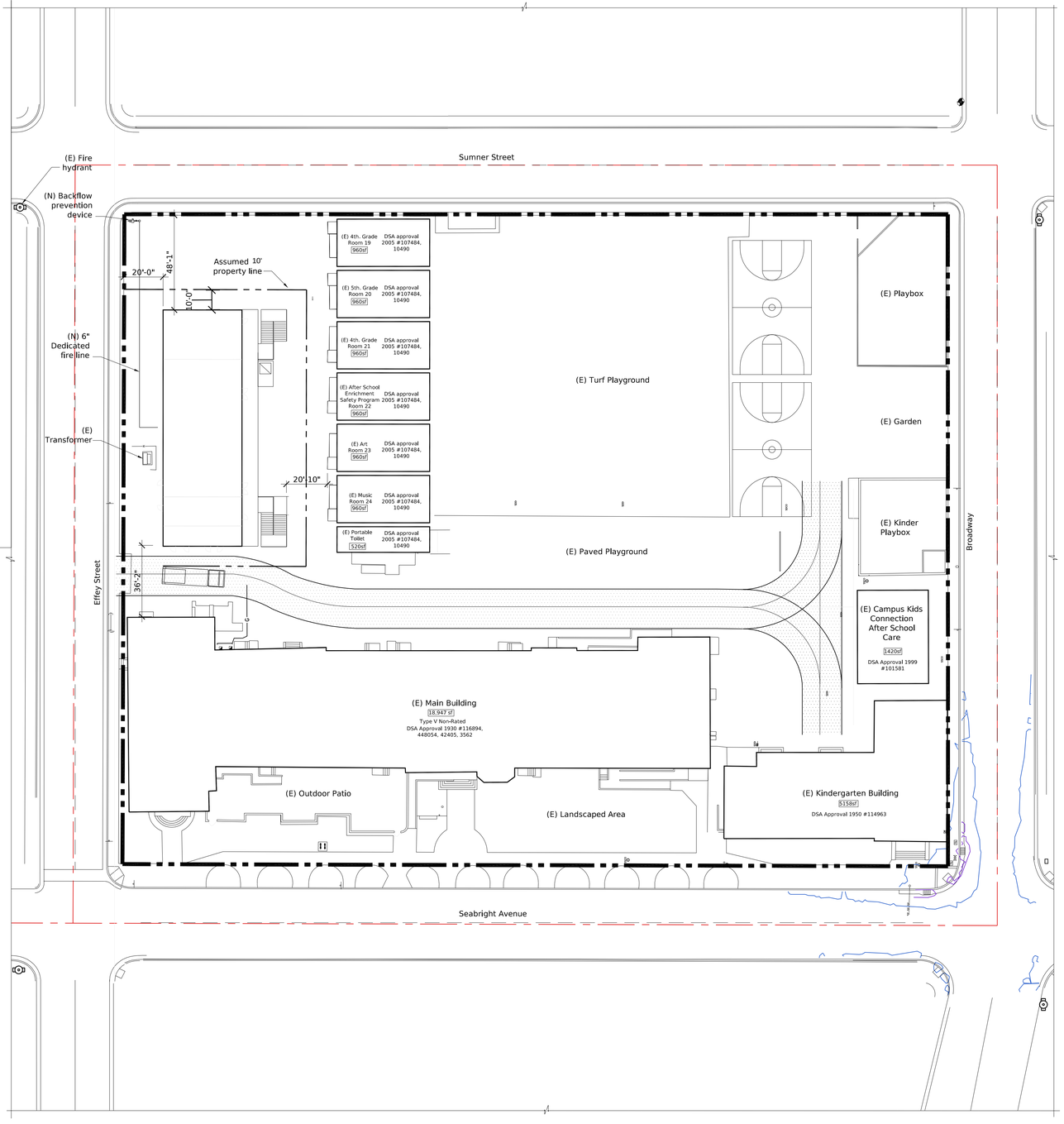
By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: _____ Title: _____

Signature: _____ Date: _____

LOCAL FIRE AUTHORITY (LFA) INFORMATION		
LFA Agency Name:	Santa Cruz Fire Department	
LFA Review Official:	Tim Shields	
Title:	Fire Marshal	Work Phone: (831) 420-5286
Work Email:	tshields@cityofsantacruz.com	

LFA Reviewer's Signature: Tim Shields Digitally signed by Tim Shields Date: 2021.11.22 13:52:32 -08'00' Date: 11/22/21



Campus Site Plan

1" = 30'-0"

1

Legend

Property Line

Fire Truck and Truck Route

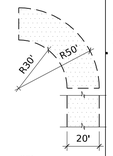
Fire Hydrant FH

Drinking Fountain DF

(E) Concrete Bollards

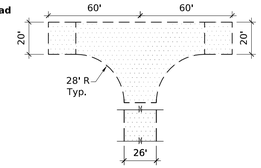
Per CFC Section D102.1, all fire access roads shall be asphalt, concrete or other approved driving surface capable of supporting the imposed load of fire apparatus weighing at least 75,000 pounds.

Typical Minimum Firetruck Turning Radii as determined by Santa Cruz Fire Dept. fire code official in compliance with ordinance no. 2016-15 fire code standards adoption.

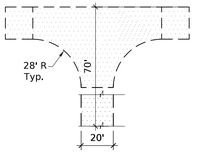


Drive Aisle (20'-0" Typ.) Not Dimensioned on Plans

120' Hammerhead



Acceptable Alternative to 120' Hammerhead



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT MARK BARTOS 31-31-21 RENEWAL 08/31/23 STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

N 15 30 60
1"=30'-0"

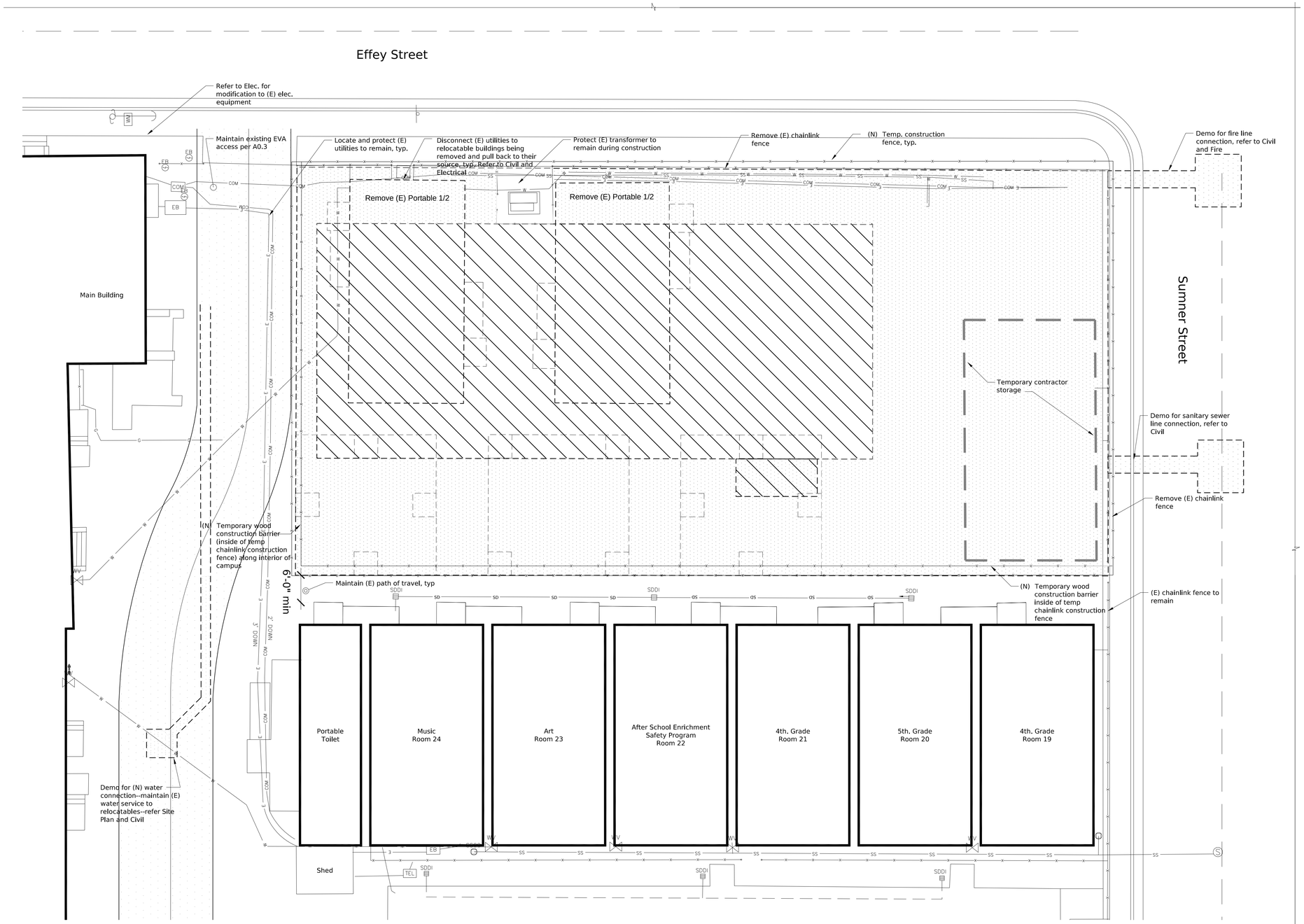
New Modular Classroom Building.

Gault Elementary School

Site Plan
Fire Department

A0.3

BA 17-005.5



Sheet Notes

1. Provide dust control as required to isolate work zone from public and staff.
2. Coordinate with Architect and District all system shut-downs or alterations. Architect and District shall be given adequate notice for alternate systems to be established. Refer to Specifications for notification procedure.
3. All existing structural systems shall remain intact. Do not drill, nail, or puncture without prior approval from Architect/ Engineer.
4. Contractor shall map reinforcement in any structural concrete or masonry prior to drilling.
5. Patch all existing surfaces and finishes indicated as "to remain" where adjacent demolished structures and finishes were previously attached.
6. Refer to Specifications for requirements of abatement of Asbestos and Lead Containing Materials, and for schedule of such materials to be removed.
7. Where exterior work is proposed, Contractor shall coordinate protection, demolition, or relocation of all existing utilities, benches, paving, and plantings.
8. Refer to Electrical, and Civil drawings for additional demolition information and requirements not covered here.
9. Contractor shall coordinate with District, prior to demolition work, for removal and storage of all accessories (flags, flag poles, etc.).
10. Refer to Specifications for additional requirements.

Legend

Excavate (E) hardscape and soil for building concrete slab & footing. Refer to Modular, Elec., Civil and Fire for entire scope

Excavate (E) hardscape and soil for new hardscape. Refer Site plan, Elec., Civil and Fire for entire scope.

Demo & remove (E) portables

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
300 8th Avenue
Suite 202 San Mateo
California 94401
www.bartosarchitecture.com

LICENSED ARCHITECT
MARK BARTOS
No. C-34738
EXP. 03-31-23
STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building
Building Site Package

Gault Elementary School

REVISION	DATE
DSA Submittal	3/8/2022

N 1 5 10 20
3/32"=1'-0"

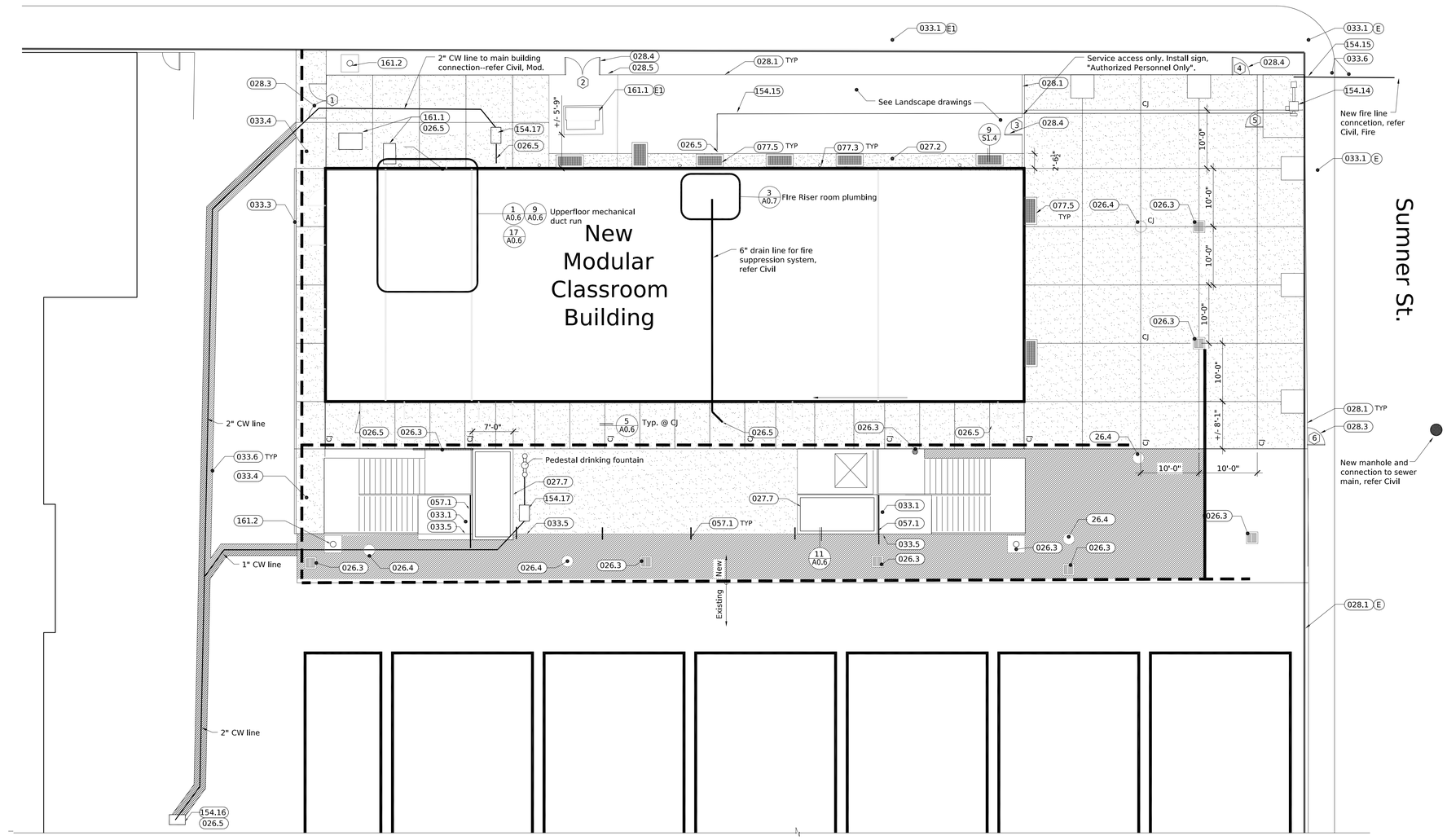
Demolition Site Plan

3/32" = 1'-0" (1)

Demolition Site Plan

A0.4

BA 17-005.5



Site Construction Notes

1. DIMENSIONS: All dimensions given take precedence over scale. Contractor shall not scale drawings to determine dimensions without consulting the Architect. Contractor shall review all dimensions for accuracy prior to construction.
2. Dimensions given as "CLR" are to face of finish. Otherwise, all dimensions are to face of stud/structure unless otherwise noted.
3. Concrete Joints: Install expansion and score joints as shown on the plan. Expansion joints shall be installed between all new paving and walls, curbs, buildings, and existing paving.
4. Refer to Demolition Plan for all items to remain, items to be salvaged and/or relocated.
5. Contractor shall include all required concrete sawcutting and concrete repair for (N) underground plumbing and electrical work.
6. Pressure Washing: Upon completion of construction, all existing walkways within 20 feet of the limit of work shall be pressure washed to remove dirt, gum, and other stains to the satisfaction of the architect and District.
7. Refer to Specifications for additional requirements.

Keynotes

(123.1) Keynotes are arranged by CSI section. Refer Specifications for additional information.

(E1) Existing, protect in place.
(E2) Existing, Remove, Reinstall
(E3) Replace Existing
(D) Demolish and Remove
(R) Remove and Relocate

02 Sitework
026.3 Drain grate - Provide ADA compliant grating material, refer to Civil
026.4 Underground drain system - refer to Civil
026.5 Utility P.O.C. - refer to Electrical, Civil, Fire
027.2 Portland cement concrete paving
027.7 Concrete planter wall
028.1 Chain link fencing
028.3 Swinging chain link gate with panic hardware, see A0.7 for schedule
028.4 Swinging chainlink gate for service access, see A0.7 for schedule
028.5 Signage: AUTHORIZED PERSONNEL ONLY

03 Concrete
033.1 Concrete flatwork
033.3 Concrete curb
033.4 Sloping concrete walkway (less than 5%)
033.5 Concrete stair
033.6 Repair existing concrete and/or asphalt concrete
034.1 Weep hole

05 Metals
057.1 Metal Handrails and Railings
057.2 2" Diameter louvered weep hole cover
057.3 Guardrail

07 Thermal and Moisture Protection
077.3 Downspout location, refer to Civil for underground piping
077.5 Foundation ventilation by Modular Contractor, typ

15 Mechanical/ Plumbing
154.14 Backflow preventer
154.15 Underground Fire Line, refer Fire, Civil
154.17 Flush valve box, see 1/A7.0

16 Electrical
161.1 Electrical Equipment, refer to Electrical
161.2 Electrical Fixture, refer to Electrical

Legend

Property Line

Accessible Path of Travel

Accessible Path of Travel is a a passage that may consist of walks and sidewalks, curb ramps and pedestrian ramps, lobbies and corridors, elevators, other improved areas or a necessary combination thereof, that provides free and unobstructed access to and egress from a particular area or location for pedestrians and/or wheelchair users. Refer CBC 1133B.

Concrete Paving

Asphalt Concrete Paving

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT MARK BARTOS No. C-34735 STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building.

Gault Elementary School

Architectural Site Plan

A0.5

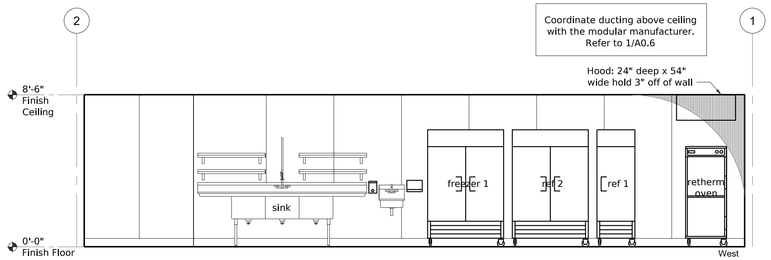
BA 17-005.5

Architectural Site Plan

1" = 10'-0" (1)

Equipment List

Warming Kitchen							
Item No.	Description	Manufacturer	Model	Qty	Amps	Vlts.	Phase
1	Retherm oven	CresCor	RO-151-FW-1332DX	1	N/A	208	three
2	Reach-in Refrigerator - double door	True	TS-49-HC	1	5.4	115	single
3	Reach-in Refrigerator - single door	True	TS-23-HC	1	2.2	115	single
4	Reach-in Freezer - double door	True	TS-49F-HC	1	9.6	115	single
5	Reach-in Milk Cooler	True	TMC-58-S-SS-HC	1	2.7	115	single
6	Salad Bar Servery	N/A	N/A	1	N/A	N/A	N/A
7	Soap dispenser	N/A	N/A	1	N/A	N/A	N/A
8	Towel dispenser	N/A	N/A	1	N/A	N/A	N/A
9	Handle holder	Bobrick	B0223	1	N/A	N/A	N/A
10	Wall mounted stainless steel shelf	Broadway	BWS-6012	2	N/A	N/A	N/A
11	Wall mounted food storage shelf	Broadway	BWS-3612	2	N/A	N/A	N/A
12	Wall mounted utensil rack	Broadway	BWDPR-6012	1	N/A	N/A	N/A
13	Exhaust Hood - Type 2	Captive-Aire	VHB Series	1	N/A	N/A	N/A
14	Wire Shelving - Dry Storage	Metro	MX-series: MX2436G	1	N/A	N/A	N/A
15	Wire Shelving - Dry Storage	Metro	MX-series: MX2472G	1	N/A	N/A	N/A



Interior Elevation
Warming Kitchen
1/4"=1'-0" 12

Keynotes

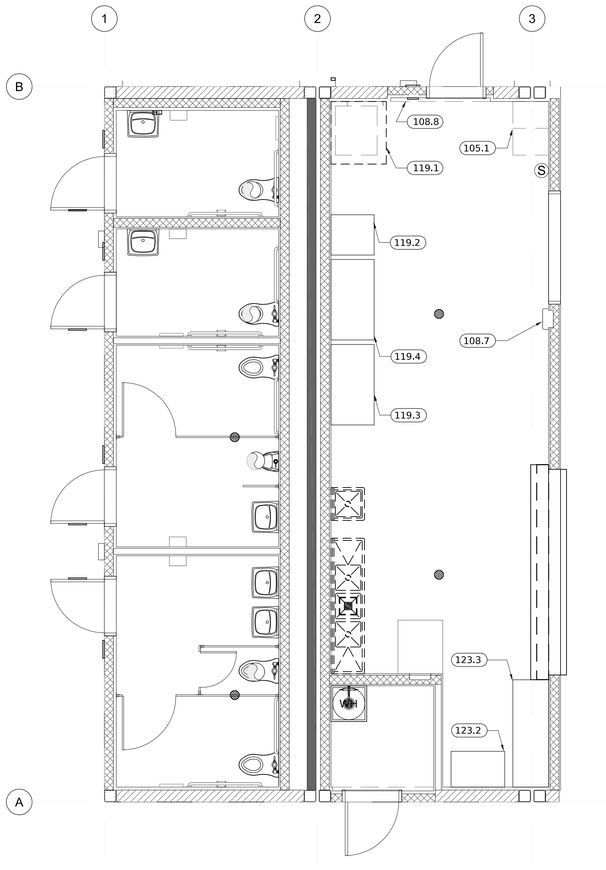
123.1 Keynotes are arranged by CSI section. Refer Specifications for additional information.

10 Specialties
105.1 Metal Lockers
108.5 Paper Towel Dispenser
108.6 Soap Dispenser
108.7 Fire Exitliguisher location (supplied by Modular contractor). Refer to Modular sheets A1.0,6 A1.1
108.8 Signage: KITCHEN TO BE USED FOR WARMING ONLY. NO COMMERCIAL COOKING ALLOWED. Refer to sheet A0.2

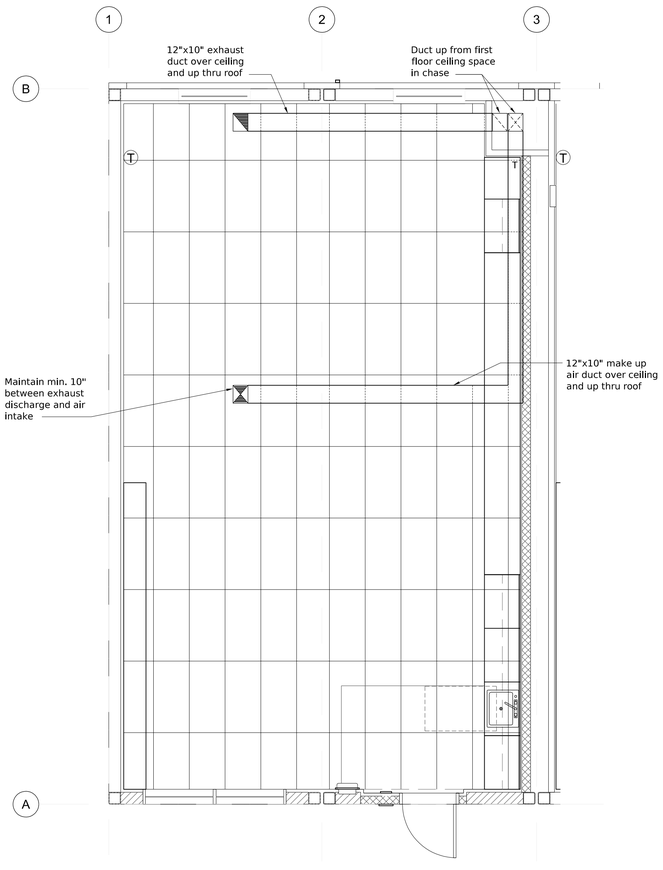
11 Equipment
119.1 Warming Oven
119.2 27"W x 29"D Refrigerator
119.3 54"W x 29"D Refrigerator
119.4 54"W x 29"D Freezer

12 Furnishings
Refer Casework Schedule
123.2 Wireshelving 36"Lx24"D
123.3 Wireshelving 72"Lx24"D

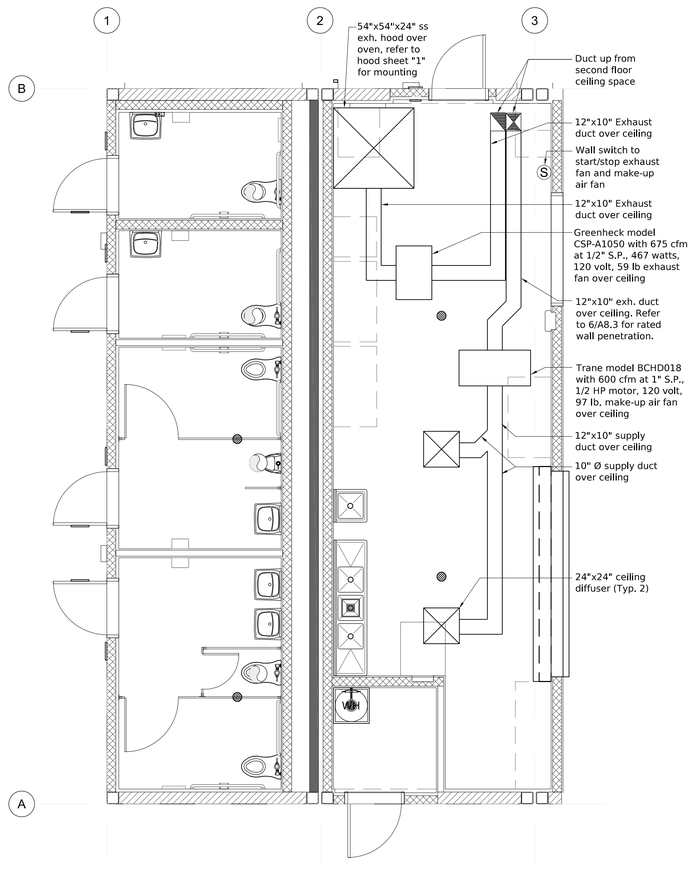
15 Mechanical / Plumbing
Refer Mechanical, Plumbing Drawings
154.0 Hand washing sink
154.1 3 compartment sink
154.2 Floor sink
154.4 Custodian sink



Warming Kitchen/Equipment Plan
First Floor
17



Mechanical Plan
Second Floor
1/4"=1'-0" 9



Mechanical Plan
First Floor
1/4"=1'-0" 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
300 8th Avenue
Suite 202 San Mateo
California 94401
www.bartosarchitecture.com

LICENSED ARCHITECT MARK BARTOS No. C-31131 STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building
Building Site Package

Gault Elementary School

REVISION	DATE
DSA Submittal	3/8/2022
DSA Backcheck	9/15/2022

2 4 8
1/4"=1'-0"

Kitchen/Mechanical Plan

A0.6

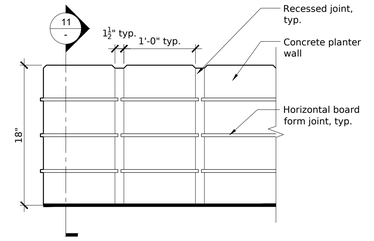
BA 17-005.5

Gate Schedule

Location	Gate				Hardware					Details		Function
Symbol	MAT'L	Width (NOM)	Height (NOM)	Fire Label REQ'D	Panic Exit Device	Door Closer	Kick-plate	Door Stop / Holder		14/A7.0	CSI Section	
1	HM	6'-0 1/4"	8'-0"	No	Yes	Yes	Yes	Yes		Yes	028.3	Pedestrian Access
2	Chain Link	3'-0"	8'-0"	No	No	N/A	N/A	N/A		N/A	028.4	Service Access
3	Chain Link	3'-0"	8'-0"	No	No	N/A	N/A	N/A		N/A	028.4	Service Access
4	Chain Link	3'-0"	8'-0"	No	No	N/A	N/A	N/A		N/A	028.4	Service Access
5	HM	3'-0"	8'-0"	No	Yes	Yes	Yes	Yes		Yes	028.3	Pedestrian Access

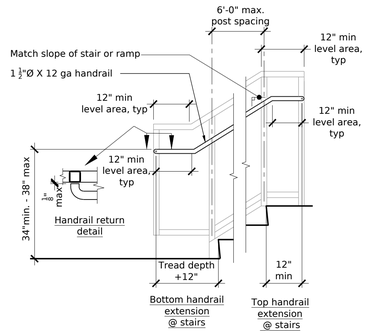
Gate Schedule Notes:

1. Refer to A1.1 "Architectural Site Plan" for gate locations & sign placement.
2. Contractor shall verify sign language with District prior to fabrication.



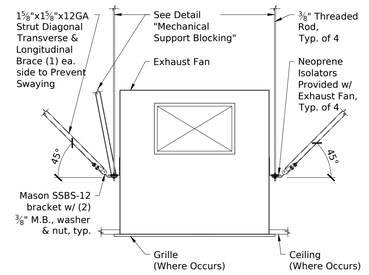
Concrete Planter Elevation

1"=1'-0" — 12



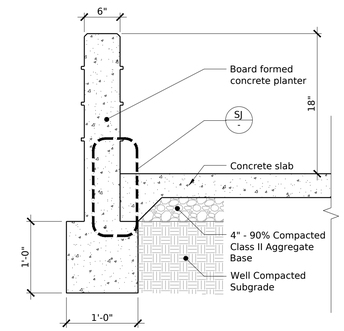
Handrail Detail

1/2"=1'-0" — 8



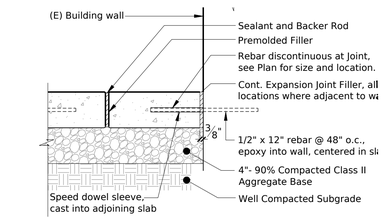
Exhaust Fan Mounting

1/2"=1'-0" — 4

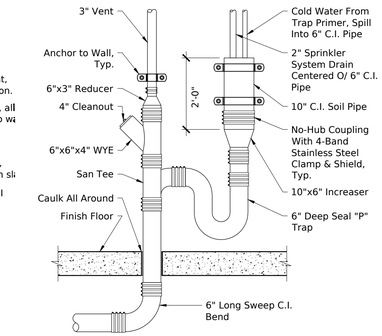


Concrete Planter Detail

1"=1'-0" — 11

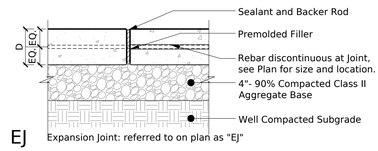


IJ — Isolation Joint: referred to on plan as "IJ"

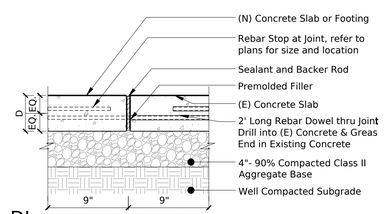


Fire Sprinkler Standpipe Drain

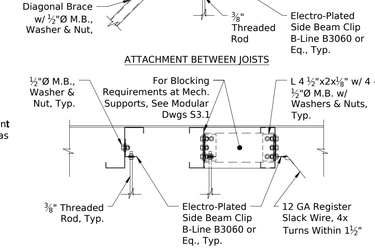
1/2"=1'-0" — 3



EJ — Expansion Joint: referred to on plan as "EJ"

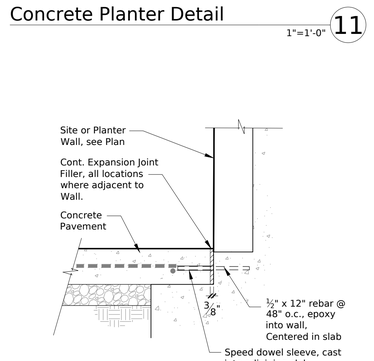


DJ — Dowel Joint: referred to on plan as "DJ"



Mechanical Support Block

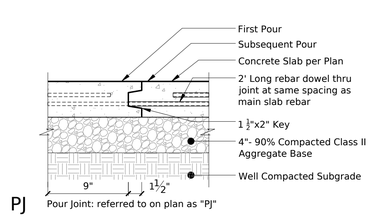
1"=1'-0" — 2



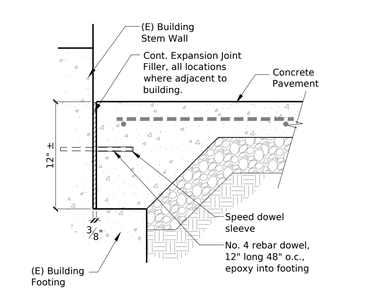
Pedestrian Gate

- — 1/4"=1'-0" — 14

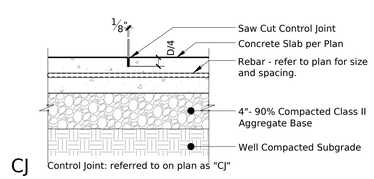
SJ — Joint at Site Wall: referred to on plan as "SJ"



PJ — Pour Joint: referred to on plan as "PJ"



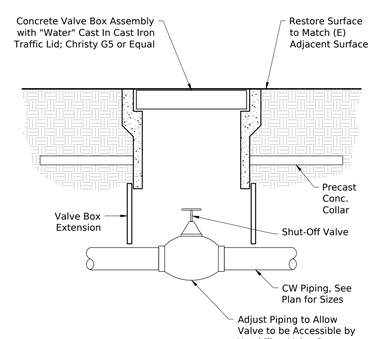
BJ — Joint at Building: referred to on plan as "BJ"



CJ — Control Joint: referred to on plan as "CJ"

Concrete Construction Joints

1 1/2" = 1'-0" — 5



Valve Box

1/4"=1'-0" — 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
300 8th Avenue
Suite 202 San Mateo
California 94401
www.bartosarchitecture.com

LICENSED ARCHITECT MARK BARTOS Expires 08-31-23 STATE OF CALIFORNIA

LICENSED ARCHITECT MARK BARTOS Expires 08-31-23 STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building
Building Site Package

Gault Elementary School

REVISION	DATE
DSA Submittal	3/8/2022
DSA Backcheck	9/15/2022

Wall Details

A0.7

BA 17-005.5

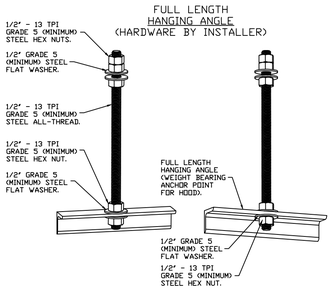
FOR QUESTIONS, CALL THE
Central CA
REGION 91
PHONE: (415) 956-2200
EMAIL: reg91@captiveaire.com

HOOD INFORMATION – JOB#5227456

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW
1		5424 VHB	CAPTIVEAIRE	4' 6"	700 DEG	II	N/A	150	675			4"	10"	675	1238	-0.114"	430 SS 100%	ALONE	ALONE

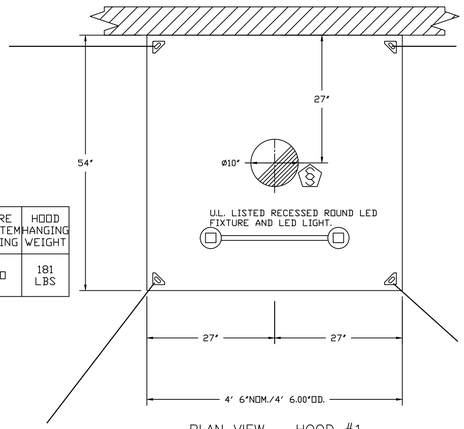
HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1							2	RECESSED ROUND	NO							NO	181 LBS

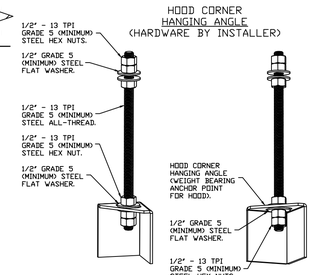


ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



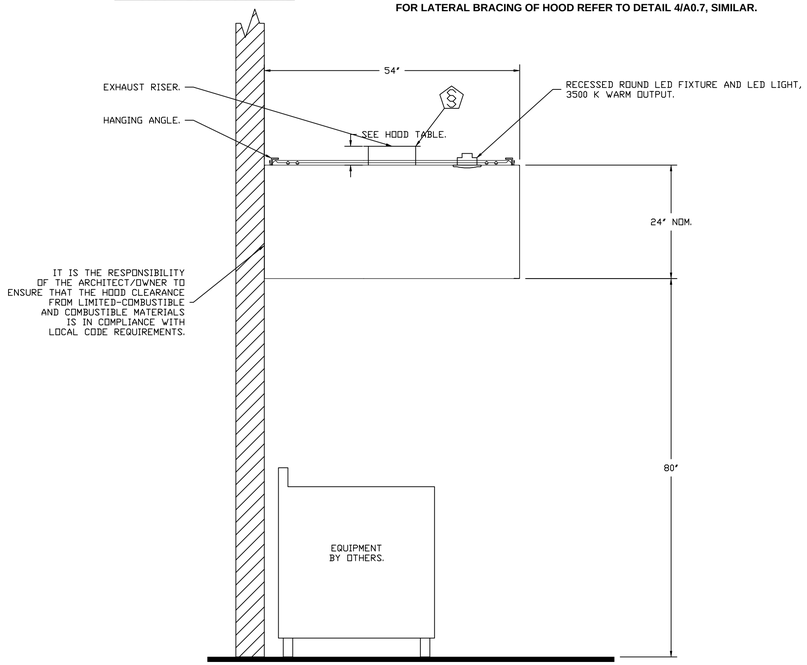
PLAN VIEW – HOOD #1
4' 6.00" LONG 5424VHB



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

FOR LATERAL BRACING OF HOOD REFER TO DETAIL 4/A0.7, SIMILAR.



SECTION VIEW – MODEL 5424VHB
HOOD – #1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

CAPTIVE-AIRE
Central CA
8 Adrian Court, Burlingame, CA, 94010 PHONE: (415) 956-2200 FAX: (919) 227-5940 EMAIL: reg91@captiveaire.com
www.captivea

Gault Elementary School
1320 Seabright Ave,
Santa Cruz, CA, 95062

DATE: 12/10/2021
DWG.#: 5227456
DRAWN BY: T.Thai
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 1

FOR QUESTIONS, CALL THE
CAPTIVE-AIRE SYSTEMS
CENTRAL CALIFORNIA OFFICE
Region 91
8 ADRIAN COURT
BURLINGAME, CA 94010
PHONE: (415) 956-2200
EMAIL: REG91@CAPTIVEAIRE.COM

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH
NFPA #96
UL 710 & ULC710 STANDARDS
E.T.L. LISTED 3054804-001

CAPTRATE & KLEEN-GARD FILTERS ARE BUILT IN COMPLIANCE WITH
NFPA #96
NSF STANDARD #2
UL STANDARD #1046
INT. MECH. CODE (IMC)

LICENSED ARCHITECT
MARK RICHARD LOCH
EXPIRES
C-29138
09-30-23
STATE OF CALIFORNIA

SECTION 23 38 13 13

SPECIFICATIONS
TAG: Commercial Kitchen Ventilation Hoods, Listed Commercial Kitchen Hoods

PART 1 - GENERAL

1.1 SUMMARY

A. The VHB Series is a Premier Type II, exhaust only hood used over equipment not producing grease laden vapors. Type II hoods are used for condensation or heat removal applications.

B. The hood shall have the size, shape, and performance specified on drawings.

1.2 SUBMITTALS

A. The manufacturer assumes no liability for the use or results of use from this document. Specifications are to be reviewed by the engineer to confirm the project's requirements and meet Federal, State, and Local codes and regulations.

B. As the manufacturer continues product development, it reserves the right to change design and specifications without notice.

C. The manufacturer shall supply complete computer generated submittal drawings, including hood section view(s) and hood plan view(s). These drawings must be available to the engineer, architect, and owner for their use in construction, operation, and maintenance.

1.3 QUALITY ASSURANCE

A. This hood is ETL-listed to standard UL710, ULC710, and ULC-S646 when installed in accordance with these installation instructions and National Fire Protection Association Standard "NFPA 96, Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations."

B. Built-in compliance with NSF/ANSI Standard 2.

C. The hood shall be ETL Listed as:

1. "Exhaust Hood Without Exhaust Damper."
2. ETL Sanitation Listed and built in accordance with NFPA 96.
3. The ETL label shall list temperature rating(s) and minimum CFM/ft rating(s).

1.4 WARRANTY

A. All units shall be provided with the following standard warranty:

1. This equipment is warranted to be free from defects in materials and workmanship, under normal use and service, for a period of 2-years from date of shipment.

B. The manufacturer shall not be liable for incidental and consequential losses and damages potentially attributable to malfunctioning equipment. Should any part of the equipment prove to be defective in material or workmanship within the 2-year warranty period, upon examination by the manufacturer, such part will be repaired or replaced by manufacturer at no charge. The buyer shall pay all labor costs incurred in connection with such repair or replacement. Equipment shall not be returned without manufacturer's prior authorization, and all returned equipment shall be shipped by the buyer, freight prepaid to a destination determined by the manufacturer.

C. Refer to Manufacturer's Operation, Installation, and Maintenance (OIM) Manual for detailed descriptions of what is/is not covered and contact information for warranty claims.

PART 2 - PRODUCTS

2.1 GENERAL

A. Construction shall be dependent on the structural application to minimize distortion and other defects. All seams, joints, and penetrations of the hood enclosure to the lower outermost perimeter, which directs and captures grease-laden vapor and exhaust gases, shall have a liquid-tight continuous external weld in accordance with NFPA 96.

B. Duct sizes, CFM, and static pressure requirements shall be as shown on drawings. Static pressure requirements shall be precise and accurate; air velocity and volume information shall be accurate within 1-ft increments along the length of the ventilator.

2.2 CONSTRUCTION

A. Construction shall be type 430 stainless steel.

B. Hood shall be equipped with a minimum of four connections for hanger rods. Hood lengths greater than 12'will have added hangers.

C. Exhaust duct collar to be 4"high with flange.

D. All seams shall be welded and have stainless steel on exposed surfaces.

2.3 LIGHTING

A. Recessed round LED fixture and LED light, 3500K Warm output.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas and conditions under which the system is installed. Do not proceed with work until unsatisfactory conditions have been corrected in a manner acceptable to Installer.

3.2 INSTALLATION

A. Install in accordance with manufacturer's instructions, drawings, written specifications, manufacturer's installation manual, and all applicable building codes.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

www.captiveair.com
Central CA
8 Adrian Court, Burlingame, CA, 94010 PHONE: (415) 956-2200 FAX: (919) 227-5940 EMAIL: reg91@captiveaire.com

LICENSED ARCHITECT
MARK EDWARD BARTOS
C-34138
Exp. 12.31.23
STATE OF CALIFORNIA

Gault Elementary School
1320 Seabright Ave,
Santa Cruz, CA, 95062

DATE: 12/10/2021

DWG.#: 5227456

DRAWN BY: T.Thai

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 2

Symbols List:

1 / E0.1 — Plan, detail or section designation.

201 — Room number.

1 — Sheet reference symbol - see associated note on same sheet.

3 — Feeder schedule symbol.

CH / 2 — Mechanical equipment tag.

A — Indicates fixture type.

Luminaire symbols

Luminaire - see schedule.

Luminaire - see schedule.

Luminaire - see schedule.

Luminaire - see schedule.

Pole mounted luminaire - see schedule.

Pole mounted luminaire - see schedule.

Luminaire exterior wall mounted - see schedule.

Luminaire - see schedule.

Luminaire - see schedule.

Step luminaire - see schedule.

Luminaire wall mounted-see schedule.

Emergency luminaire - provide emergency battery ballast.

EM — Emergency luminaire - provide emergency battery ballast.

Emergency luminaire - provide emergency battery ballast.

Emergency luminaire - provide emergency battery ballast.

Emergency luminaire - provide emergency battery ballast.

Emergency luminaire wall mounted- provide emergency battery ballast.

Exit light single face - see schedule.

Exit light single face (with arrow)- see schedule.

Exit light (double faced with arrow)- see schedule.

Combination exit light emergency battery pack/exit light single face (with arrow) install as directed - see schedule.

Emergency battery pack exit light install as directed - see schedule.

Typical luminaire nomenclature

3a — Indicates switching designation

Indicates circuit number

GENERAL ANCHORAGE NOTES:

MEP COMPONENT ANCHORAGE NOTE:

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THOUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26, AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE, OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRed) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/120 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE, OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

A. COMPONENTS WEIGHTING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHTING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.5.7, 13.6.5.8, AND 2019 CBC, SECTION 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEM. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☒ - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E☐ - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) #_____.

Switch symbols

Single pole switch, + 48" aff to the top of the switch box, uon, a = circuit controlled.

Three way switch, + 48" aff to the top of the switch box, uon.

Motor rated switch.

Motor rated switch connected to exhaust fan.

Dimming switch, +48" aff to the top of the switch box, uon. a = circuit controlled.

Lighting occupancy sensor.

Two circuit wall switch with built in occupancy sensor. Connect a,b switching to lighting fixtures as required. Mount at +48"aff to the top of the switch box, uon.

One circuit wall switch with built in occupancy sensor. Connect switching to lighting fixtures as required. Mount at +48"aff to the top of the switch box, uon.

Lighting occupancy sensor. Wattstopper LMDC-100, Ceiling mount.

Photo Control. Wattstoper LMLS-500, Ceiling/Wall Mount.

Wall switch, + 48" aff to the top of the switch box, uon. Wattstopper LMSW-105.

RC / 211 — Room controller, mounted above ceiling. Wattstopper LMRC-211.

RC / 212 — Room controller, mounted above ceiling. Wattstopper LMRC-212.

Receptacle symbols

Convenience receptacle - duplex at + 18" aff uon.

CR — Cord Reel. See mounting detail for additional information.

C — Ceiling mounted receptacle.

Gfci convenience receptacle - duplex.

Gfci convenience receptacle - quadplex.

Receptacle double duplex at + 18" aff uon.

Floor box with convenience receptacle and data outlet.

Flush floor box with single convenience receptacle.

Surface raceway, install height per architectural drawings aff uon.

Channel surface raceway riser to ceiling, install to horizontal surface raceway or height indicated.

SINGLE RECEPTACLE - NEMA 5-20R UON, AT + 18" AFF UON.

SINGLE RECEPTACLE - NEMA L21 - 208 VOLT, THREE PHASE, 5 WIRE, AT + 18" AFF UON.

Communications symbols

Data rack. See low voltage drawings for additional information and requirements.

Telephone device. - provide 4 11/16" x 4 11/16" x 2 1/4" j-box with a single gang extension ring and 3/4" conduit to above accessible t-bar ceiling. Mount device in surface raceway indicated. If concealed provide 1" conduit to above accessible ceiling or indicated junction box. Install at + 48" aff to top of box, uon. Connect device per PA/Intercom riser diagram.

EM — Emergency telephone. Route back to MPOE.

(2) — Data wall outlet - provide 4-11/16" x 4-11/16" x 4" deep j-box with device plate. Provide 3/4" conduit concealed to above accessible ceiling. Install per Architectural drawings. Number adjacent to the outlet indicates the number of data cable drops and terminations at each location.

AP — Data wall outlet for wireless access point - provide 4-11/16" x 4-11/16" x 4" deep j-box with device plate. Provide 3/4" conduit concealed to above accessible ceiling. Install per Architectural drawings.

S — Wall mounted interior speaker + 8'-0" aff uon, verify before installation.

S — Wall mounted exterior speaker + 8'-0" aff uon, verify before installation.

C — Analog Clock + 8'-0" aff uon, verify before installation.

TV — Tv outlet - 4-11/16" x 2-1/8" deep box with 1 gang ring - type "f" female connector and (1) single gang box with (1) 20a - 120v quadplex receptacle. Install in tv cabinet shelf. Provide 3/4" conduit for catv to above accessible ceiling. Provide extension ring as required to install in cabinet.

WAP — Wireless access point. Mount to wall column at 15', refer to architectural drawings for location.

Wiremold raceway with receptacles and data outlets and device plate. Route raceway underneath counter for computer installation. Provide power conduits for raceway receptacles and route concealed in wall. Provide 1" conduit concealed for data and route from surface raceway to above accessible ceiling.

Digital Clock/Speaker + 8'-0" aff uon, verify before installation.

EC — Emergency Call Button 48" from to of box aff uon, verify before installation.

Emergency power off button.

AV-1 — AV input at teachers desk. See riser diagram for requirements. 4-11/16" x 2-1/8" deep box with 1-gang ring. Provide 1 1/4"C homerun to AV cabinet. Mount at +18"A.F.F.

AV-2 — AV output at TV. See riser diagram for requirements. 4-11/16" x 2-1/8" deep box with 1-gang ring. Provide 1 1/4"C homerun to AV cabinet. Mount at +18"A.F.F.

AV-3 — AV output at AV rack. See riser diagram for requirements. 4-11/16" x 2-1/8" deep box with 1-gang ring. Mount at +18"A.F.F.

P — Ceiling mounted AV outlet. See riser diagram for requirements. Provide 1 1/4"C homerun to AV cabinet.

SP — Local AV speaker. See riser diagram for requirements. 4-11/16" x 2-1/8" deep box with 1-gang ring. Provide 1"C homerun to AV cabinet. Mount at +8'A.F.F.

PX — Pixie controller outlet. Provide 1 1/4" conduit concealed to above/nearest accessible ceiling. Provide model #Pixie PXE-DCM+ or approved equal. See AV wiring diagram detail for additional information.

Intrusion And Access Control Symbols

KP — Keypad 48" from top of box aff uon, verify before installation.

MS — Motion Sensor + 8'-0" aff uon, verify before installation.

D — Security door contact. Provide 3/4" C. From door frame to j-box above accessible ceiling. Conceal conduit in the wall, coordinate with mechanical.

CR — Card Reader 48" from top of box aff uon, verify before installation.

B — Classroom Bell

Power distribution symbols

Panelboard - surface or flush mounted.

LCP — Lighting control panel controlled by EMS.

J — Junction box - ceiling or wall mounted, size per cec, tape and tag wires.

Main switchboard or distribution panel.

M — Motor

30 — Rating as indicated.

60 — Unfused disconnect switch - rating as indicated.

100 — Fused disconnect switch - size fuses per motor Manufacturer's recommendations. Rating as indicated.

Magnetic starter - nema size indicated.

Transformer - see single line for requirements.

Ground rod.

Power distribution single line symbols

Circuit breaker.

M — "pg&e" meter w/ current transformer.

Transformer.

Normally opened, auxiliary contact.

Normally closed, auxiliary contact.

Wiring & conduit run symbols

Conduit - concealed in walls or ceiling.

Conduit - exposed.

Conduit - in or below floor: 3/4"min.

Existing conduit, cables or device

#10 — Conduit - home run to panel, terminal cabinet, etc. Runs marked with crosshatches indicate number of #12 awg wires. Crosshatch with "dot" indicates green ground wire. Size conduit according to specifications and applicable code. Crosshatches with "#10" indicates wire size other than #12's.

Flex conduit with connection.

Conduit - stub up.

Conduit - stub down.

Conduit emergency system.

Capped conduit.

Conduit continuation.

Sheet Index:

E0.1	Electrical Cover Sheet
E1.1	Demolition Electrical Site Plan
E1.2	New Electrical Site Plan
E1.3	Egress Lighting Plan
E2.1	Electrical Floor Plans
E3.1	Electrical Under Floor Plans
E4.1	Single Line Diagram
E5.1	Data Riser Diagram
E5.2	AV-Intrusion Riser Diagrams
E5.3	AV Riser Diagram - Cafeteria
E6.1	Electrical Details
E6.2	Electrical Details

General notes:

1. The contractor shall be licensed by the state of california c-10 and shall comply with all applicable codes and regulations. Materials and equipment shall be u.L. Listed and labeled for the application.
2. The contractor shall obtain and pay for all permits, licenses and inspection fees required by this contract work.
3. Prior to submitting a bid the contractor shall visit the site, review the existing conditions and allow for labor, material and coordination that is necessary to provide a complete installation of each system. The contractor shall obtain and be familiar with all other trades. The contractor shall be responsible for all electrical work noted and called out on all contract documents. The contractor shall be responsible for coordination between other trades on project.
4. The contractor shall be responsible for the safety of persons and property and shall provide insurance coverage as necessary for liability, personal, property damage, to fully protect the owner, architect and engineer from any and all claims resulting from this work.
5. The contractor shall maintain record drawings at the project site indicating all modifications to electrical systems. The contractor shall at the conclusion of the project provide accurate "as-built" drawings. "as-built" drawings shall show actual changes to original electrical drawing, show locations of pullboxes, conduit runs and wiring changes.
6. All materials provided to the project shall be new. The contractor shall be responsible to provide and install all incidental materials required for a complete installation.
7. The contractor shall provide to the architect a construction schedule of electrical work. The construction schedule shall identify all significant milestones with completion dates.
8. The contractor shall provide all required "cutting, patching, excavation, backfill and repairs" necessary to restore damaged surfaces to equal or better than original conditions existing at start of work. The contractor shall contact "underground services alert" for location of existing utilities prior to commencement of underground work.
9. The contractor shall be responsible for painting all exposed conduits and electrical equipment. Refer to architects painting section for requirements.
10. All electrical equipment installed outdoors shall be weatherproof. Exterior conduits run into buildings shall be installed with flashing, caulked and sealed. Conduits for exterior electrical devices shall be run inside building unless otherwise noted on drawings. All exterior conduits shall be "galvanized rigid steel" unless otherwise noted on drawings.
11. All conduits unless otherwise noted on drawings shall have as a minimum: two (2) #12's with one (1) #12 ground. "tick" marks shown on circuitry are for "rough" estimating only. The contractor shall be responsible for all wires and wire sizes required by latest code.
12. Coordinate all conduit runs, electrical equipment and panels with all other work to avoid conflicts.
13. See architectural documents for exact placement of lighting fixtures and devices. The electrical contractor shall be responsible for verification of ceiling types from architectural documents and provide and install all required fixture mounting hardware. Provide and install u.L. Listed fire stop enclosures for all recessed fixtures in fire rated ceilings.
14. From all new panels; the contractor shall stub up into accessible ceiling space a minimum of four (4) 3/4" conduits for future use.
15. Electrical raceways between structures need to be sufficiently flexible to withstand relative motion of support points where expansion joints occur. The contractor shall coordinate with structural / architectural drawings and provide flexible conduits at the expansion joints. Flexible conduit shall be maximum of 6' with less 45° bends total.
16. The contractor shall provide in every conduit a draw string for use in future construction.
17. Provide conduit between thermostats, air conditioning control panels motor starters, solenoid valves and air conditioning units. See mechanical drawings for control wiring sizes or size conduits per national electrical code as required, minimum conduit size: 3/4".
18. Power feeders may not be shown on the drawings, refer to the single line diagram for conduit and feeder information. All drawings are diagrammatic indicating location or position of equipment. Field verify conditions prior to installation of any work.
19. Manufacturer's recommendations for conductor sizing, circuit breaker or fuse protection of electrically operated equipment may differ from those indicated on drawings. Contractor shall confirm ratings prior to ordering equipment. Provide electrical protection to equipment in accordance to manufacturer's specifications and per national electrical code requirements.
20. Contractor shall review equipment requirements of other trades and provide power circuits and connections to electrically operated equipment.
21. Provide seismic bracing for all pendant light fixtures, freestanding electrical distribution equipment, motor control centers etc; and conduit racks per seismic criteria 2007 ubc requirements including engineered load calculations complete with sway bracing criteria.
22. Effectively bond electrical cabinets, enclosures and conduit raceways to code approved ground as part of the continuous grounding system.
23. Measure the 3-phase and phase to neutral service voltage for 208/120v panels prior to energizing any panels or equipment. Avoid energizing 208/120v panels phase to neutral voltage above 130 volts. Transformer tap setting may require changing.
24. Measure the 1-phase and phase to neutral service voltage for 240/120v panels prior to energizing any panels or equipment. Avoid energizing 240/120v panels phase to neutral voltage above 130 volts.
25. Do not substitute specified material or equipment without first obtaining approval from the owner or his representative.
26. Identify all above ceiling junction boxes covers with panel and circuits in legible print using black indelible ink.
27. Label all wall and/or wiremold mounted outlet devices with panel circuit identification with bold type-printed labeling. Black lettering on white background preferred.
28. Derate conductors in raceways in accordance with nec code requirements. Panel feeders to wiremolds can enter at various locations to limit conductor circuits per wiremold capacities.
29. Contractor to ensure that all existing systems remain operational to all portions of the site during construction. Contractor to provide adequate notice to architect and district to establish alternate systems in case of system stoppage.

ARCH	Architectural
AS	Amp switch
AT	Amp trip
ATS	Automatic transfer switch
BKR	Breaker
BLDG	Building
C	Conduit
CATV	Cable television
CB	Circuit breaker
CD	Candelas
CKT	Circuit
CL	Center line
CLG	Ceiling
CO	Conduit only
CTR	Center
(D)	Demolish
DET	Detail
DIM	Dimension
DISTR	Distribution
DWG	Drawing
(E)	Existing
EM	Emergency
EQPT	Equipment
FA	Fire alarm
FACP	Fire alarm control panel
(F)	Future
FIN	Finish
FL	Floor
G , GND	Ground
HGT	Height
HP	Horsepower
IC	Intercom
IDF	
JB	Junction box
KAIC	
KV	Kilovolt
KVA	Kilovolt amperes
KW	Kilowatt
LTG	Lighting
MCM	Thousand circular mils
MDF	Main distribution frame
MECH	Mechanical
MH	Manhole
MTD	Mounted
MTG	Mounting
(N)	New
NC	Normally closed
NIC	Not in contract
NIEC	Not in electrical contract
NO	Number/ normally open
NTS	Not to scale
O.C.	On center
P	Pole circuit breaker
PA	Public address
PB	Pull box
PF	Power factor
PH	Phase
PNL	Panel
(R)	Existing to be relocated
REQD	Required
REQT	Requirement(s)
RM	Room
RSC	Rigid steel conduit
SHT	Sheet
SW	Switch
SWBD	Switchboard
TC	Terminal cabinet
TEL	Telephone
TYP	Typical
UON	Unless otherwise noted
V	Volt
W	Watt
WP	Weatherproof
XFMR	Transformer

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT — MARK BARTOS — No. C-14138 — STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

REGISTERED PROFESSIONAL ENGINEER — ROBERT S. FERRANTE — E16890 — Exp. 06/30/23 — ELECTRICAL — STATE OF CALIFORNIA

American Consulting Engineers Electrical, Inc.
1590 The Alameda, Suite 200
San Jose, CA 95126
408/236-2312
Fax: 408/236-2316
JOB # EK21004.00

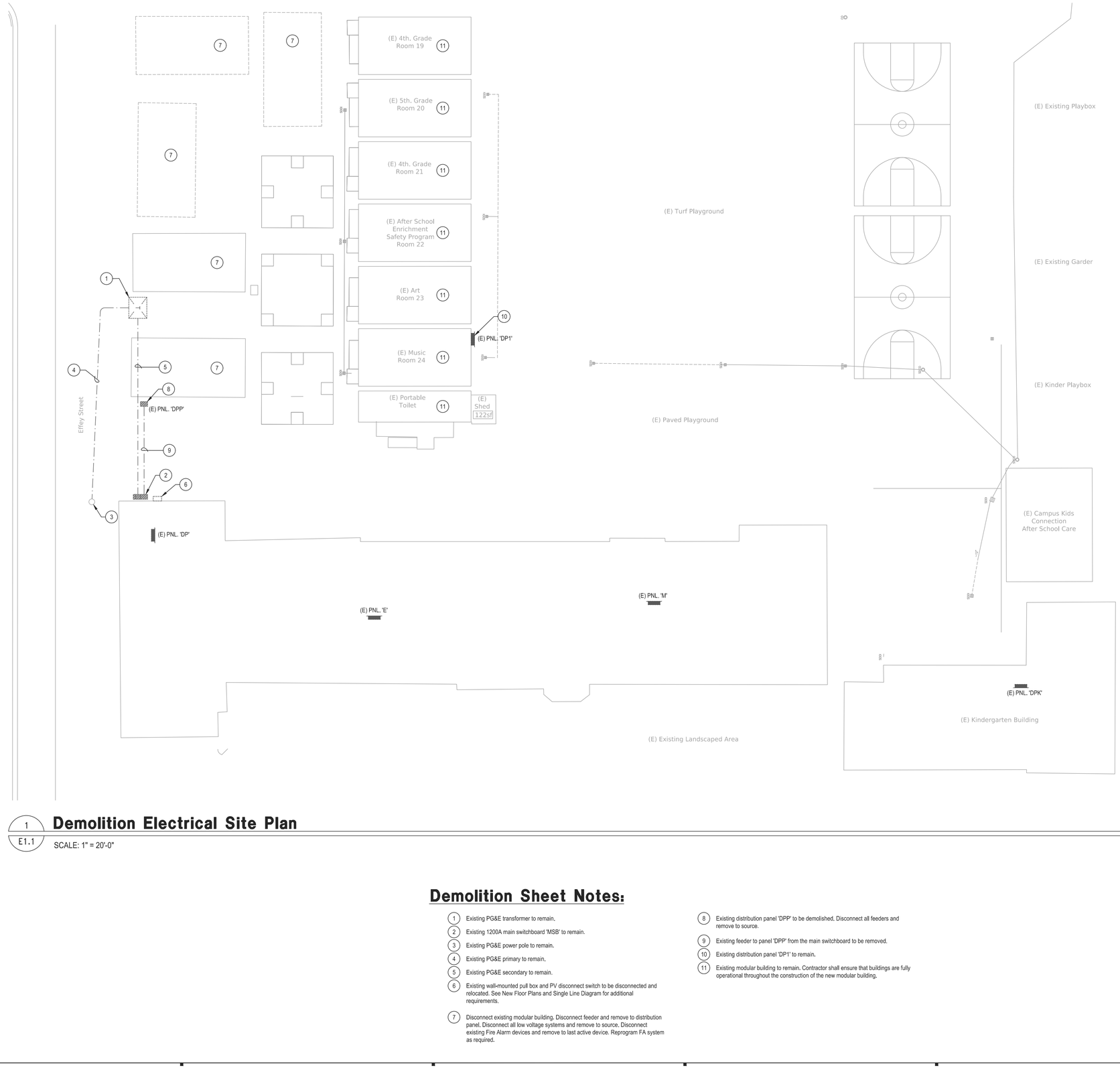
New Modular Classroom Building.

Gault Elementary School

Electrical Cover Sheet

E0.1

BA 17-005.5



1 E1.1 Demolition Electrical Site Plan

SCALE: 1" = 20'-0"

Demolition Sheet Notes:

1. Existing PG&E transformer to remain.
2. Existing 1200A main switchboard 'MSB' to remain.
3. Existing PG&E power pole to remain.
4. Existing PG&E primary to remain.
5. Existing PG&E secondary to remain.
6. Existing wall-mounted pull box and PV disconnect switch to be disconnected and relocated. See New Floor Plans and Single Line Diagram for additional requirements.
7. Disconnect existing modular building. Disconnect feeder and remove to distribution panel. Disconnect all low voltage systems and remove to source. Disconnect existing Fire Alarm devices and remove to last active device. Reprogram FA system as required.
8. Existing distribution panel 'DPP' to be demolished. Disconnect all feeders and remove to source.
9. Existing feeder to panel 'DPP' from the main switchboard to be removed.
10. Existing distribution panel 'DP1' to remain.
11. Existing modular building to remain. Contractor shall ensure that buildings are fully operational throughout the construction of the new modular building.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

REGISTERED ARCHITECT MARK BARTOS No. C-14738 STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building.

Gault Elementary School

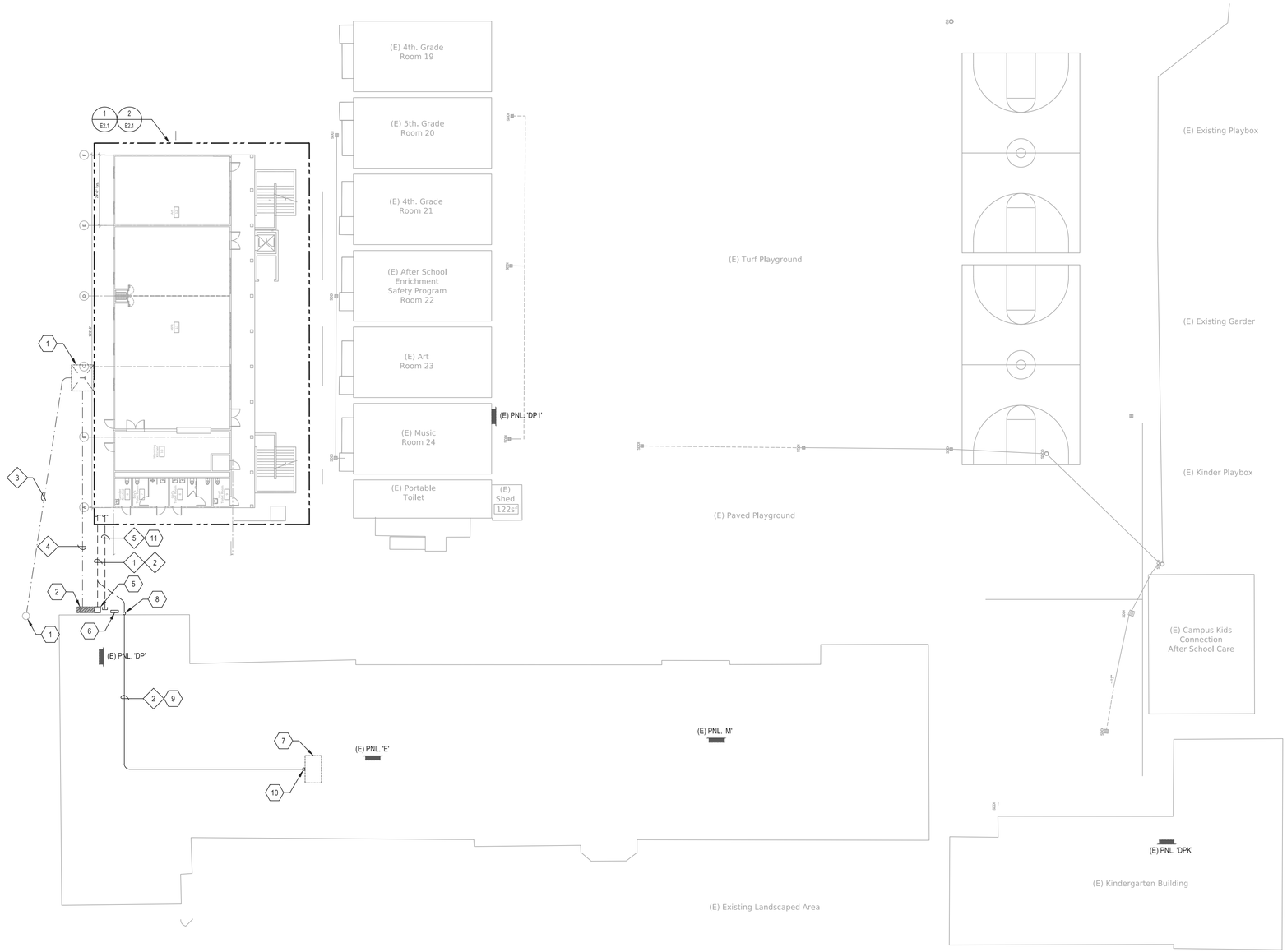
REGISTERED PROFESSIONAL ENGINEER JOHNNY S. FERNANDEZ E16890 Exp. 06/30/23 ELECTRICAL STATE OF CALIFORNIA

American Consulting Engineers Electrical, Inc.
1590 The Alameda, Suite 200
San Jose, CA 95126
JOB # EX21004.00
408/236-2312
Fax: 408/236-2316

Demolition Electrical Site Plan

E1.1

BA 17-005.5



1 New Electrical Site Plan

1 / E1.2

SCALE: 1" = 20'-0"

General Notes:

1. Contractor shall coordinate underground requirements with all other trades to avoid conflicts.
2. Contractor shall be responsible for any saw cutting and removal of existing surfaces to facilitate underground systems. The Contractor shall patch and repair all damaged and cut surfaces to match adjacent.
3. Contractor to site-survey existing conditions and locations of existing underground systems, where new trench work occurs prior to Bidding. Contractor shall take proper precautions to ensure existing underground systems/conduit/pipes are not damages during installation. Contractor is responsible for any repairs required in the event of existing underground systems are damaged as a result of the new electrical trench work.

Sheet Notes:

1. Existing PG&E transformer to remain.
2. Existing 1200A main switchboard 'MSB' to remain.
3. Existing PG&E power pole to remain.
4. New distribution panel 'DPP'.
5. Provide new switchboard section addition to the existing main switchboard to accommodate the new circuit breakers required for the 2-story building.
6. Reinstall existing pull box and PV disconnect switch in new location. Reconnect disconnect switch and PV system as required.
7. Existing MDF location. Verify exact location in the field.
8. Stub conduit up from below grade and stub into the crawl space below the ceiling.
9. Route conduit in the crawl space below the ceiling to the existing MDF location.
10. Stub conduit up into the MDF room as required.
11. Stub conduit up next to the (E) Switchgear new Distribution Section and cap within section.

Conduit Schedule:

1. (2) 4"C - Power Panel 'DPN'
2. (3) 4"C - Signal
3. (E) PG&E primary to remain
4. (E) PG&E secondary to remain
5. (1) 2"C - Spare

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT
MARK BARTOS
RENEWAL 08/31/23
C-24738
STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building.

Gault Elementary School

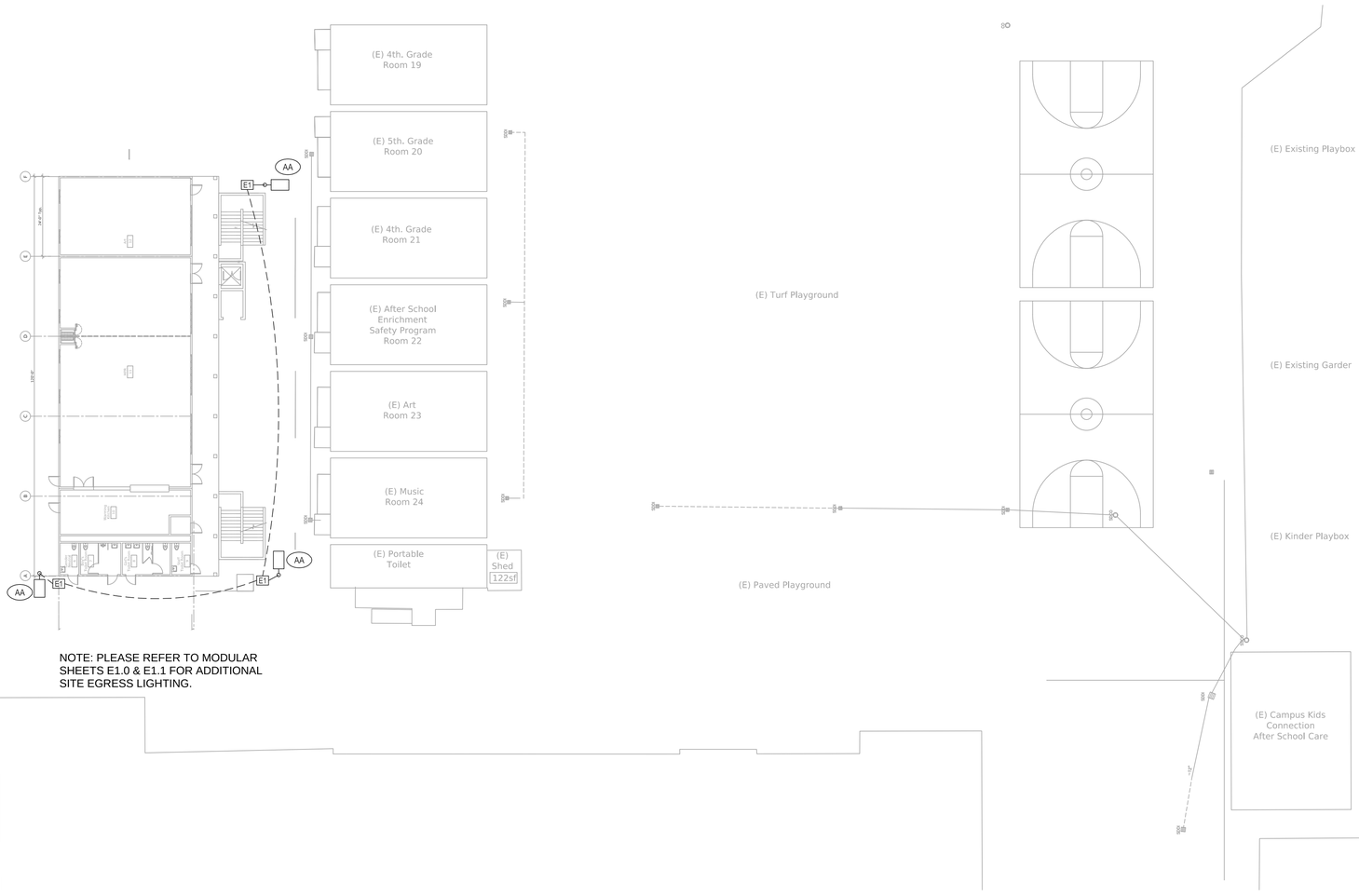
REGISTERED PROFESSIONAL ENGINEER
GREGORY S. FERNANDEZ
E16890
Exp. 06/30/23
ELECTRICAL
STATE OF CALIFORNIA

American Consulting Engineers Electrical, Inc.
1590 The Alameda, Suite 200
San Jose, CA 95126
JOB # EX21004.00
408/236-2312
Fax: 408/236-2316

New Electrical Site Plan

E1.2

BA 17-005.5



NOTE: PLEASE REFER TO MODULAR SHEETS E1.0 & E1.1 FOR ADDITIONAL SITE EGRESS LIGHTING.

1 / E1.3 **Egress Lighting Plan**

SCALE: 1" = 20'-0"

FIXTURE SCHEDULE

TYPE	LAMPS	BALLAST/ DRIVER	MOUNTING	DESCRIPTION
				ALL FIXTURE TYPES FOLLOWED BY AN "E" AND HALF SHADED ON THE FLOOR PLANS ARE EMERGENCY FIXTURES. FIXTURES SHALL BE CONNECTED TO THE LIGHTING INVERTER WITH A MINIMUM OF 90 MINUTES. EMERGENCY FIXTURES SHALL WIRED FOR SWITCHING CAPABILITIES AND SHALL BE SWITCHED PER THE FLOOR PLAN. EXIT SIGNS SHALL BE CONNECTED TO THE EMERGENCY LIGHTING CIRCUIT.
AA	L.E.D. 60W	0-10V DIMMING DRIVER	MOUNTED ON A 15' POLE WITH 3' CONCRETE BASE	POLE MOUNTED SINGLE HEAD LUMINAIRE. FIXTURE HOUSING SHALL BE ONE PIECE DIE CAST ALUMINUM. FIXTURE EPA SHALL BE A MAXIMUM OF .35 FT[Q][W]A[S. LENSED LED ARRAYS ARE SET TO ACHIEVE TYPE III DISTRIBUTION AND OPTICAL SYSTEMS ARE FIELD ROTATABLE UTILIZING HIGH PERFORMANCE CLASS I LED SYSTEMS WITH A TEMPERED GLASS LENS. LUMINAIRES SHALL BE EQUIPPED WITH AN LED DRIVER THAT ACCEPTS 120V THROUGH 277V 60HZ INPUT. DRIVER OUTPUT SHALL BE BASED ON LED WATTAGE SELECTED. FINISH SHALL BE FADE AND ABRASION RESISTANT, ELECTROSTATICALLY APPLIED, THERMALLY CURED TGIC POLYESTER POWDERCOAT FINISH IN BRONZE COLOR. FIXTURE SHALL BE UL LISTED FOR WET LOCATION. GARDCO - PUREFORM #P26-48L-400-NW-G2-AR-3-UNV-IMRII7-BZ 277 VOLT OR APPROVED EQUAL POLE SHALL BE STRAIGHT SQUARE STEEL POLE 4" X 15' X 7 GAUGE BY KW (SSP15-4.0-7) POLE SHALL BE DRILLED FOR THE NUMBER OF HEADS INDICATED. POLE SHALL HAVE BRONZE FINISH. POLES SHALL BE 15' HIGH, 4" STRAIGHT SQUARE STEEL MOUNTED ON 3' HIGH CONCRETE BASE. THE POLE SHAFT SHALL BE A SINGLE PIECE 11 GAUGE CARBON STEEL. THE FORMED STEEL PLATE SHALL BE LONGITUDINALLY WELDED PROVIDING MINIMUM YIELD STRENGTH OF 46KSI. THE ANCHOR BASE SHALL BE A-36 STRUCTURAL CARBON STEEL WITH A MINIMUM YEILD STRENGTH OF 36KSI. THE BASE PLATE SHALL TELESCOPE INTO THE POLE SHAFT AND BE CIRCUMFERENTIALLY WELDED ON THE TOP AND BOTTOM. ANCHOR BOLTS SHALL BE PROVIDED WITH THE POLE. ANCHOR BOLTS SHALL MEET OR EXCEED YIELD STRENGTH OF 50,000PSI. EACH ANCHOR BOLT SHALL BE PROVIDED WITH ALL HARDWARE NECESSARY FOR POLE INSTALLATION. BASE COVER SHALL BE TWO PIECE AND CONCEAL THE ENTIRE BASE PLATE AND ANCHORAGE. POLE SHALL BE PROVIDED WITH A HANDHOLE 12" ABOVE THE BASE. HANDHOLE SHALL BE PROVIDED WITH A COVER PLATE AND ATTACHMENT SCREWS. POLE SHALL ALSO BE PROVIDED WITH A POLE TOP CAP. FINISH SHALL BE TGIC POLYESTER POWDER COAT ELECTROSTATICALLY APPLIED AND THERMALLY CURED AND SHALL BE BLACK IN COLOR. POLES SHALL BE FACTORY DRILLED FOR PROPER FIXTURE INSTALLATION. ALL POLES SHALL BE PROPERLY LEVELED AND VERTICAL. LIGHTING FIXTURE HEADS SHALL BE MOUNTED TO THE POLE PER THE MANUFACTURERS RECOMMENDATIONS.

General Notes:

1. Project inspector shall field verify adequate exterior lighting to the public way.

PULLBOX SCHEDULE:

E1 - NEW B1017 LIGHTING PULLBOX WITH TRAFFIC RATED LID. LABEL LID 'LIGHTING'.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT
MARK RICHARD BARTOS
C-34738
STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

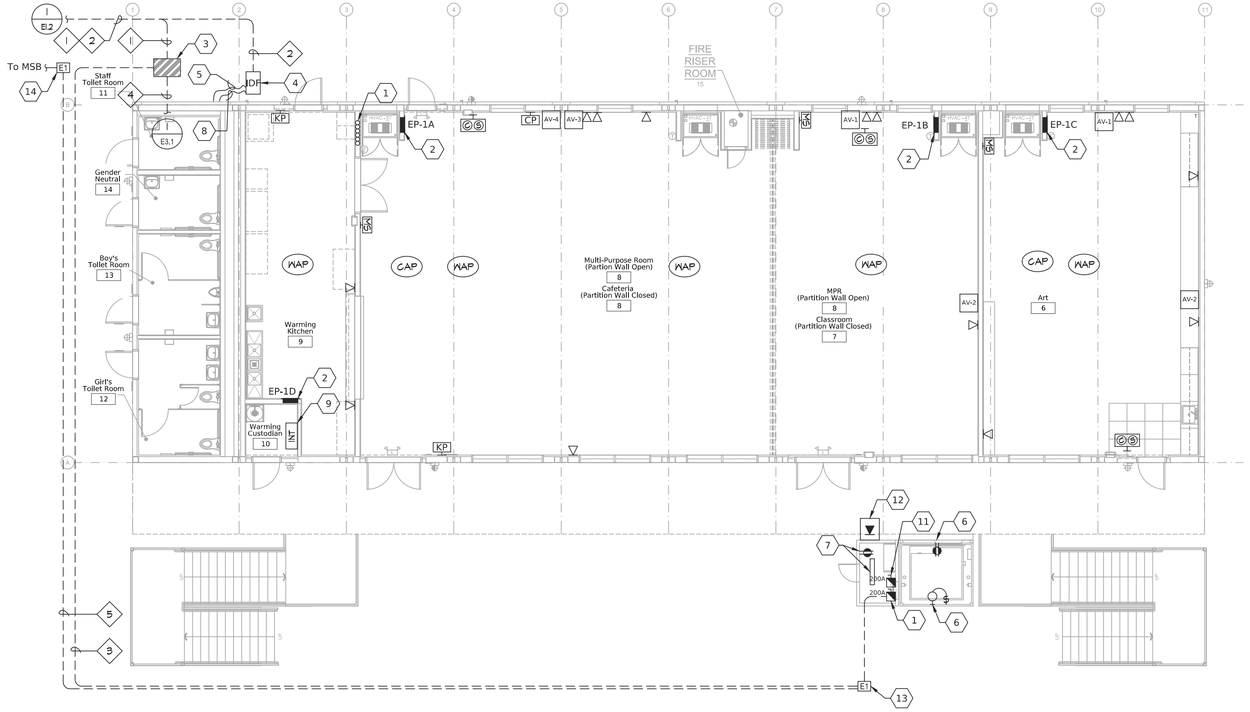
New Modular Classroom Building.
Gault Elementary School

REGISTERED PROFESSIONAL ENGINEER
JAY S. FERNANDEZ
E16890
Exp. 06/30/23
ELECTRICAL
STATE OF CALIFORNIA

American Consulting Engineers Electrical, Inc.
1590 The Alameda, Suite 200 408/236-2312
San Jose, CA 95126 Fax: 408/236-2316
JOB # EX21004.00

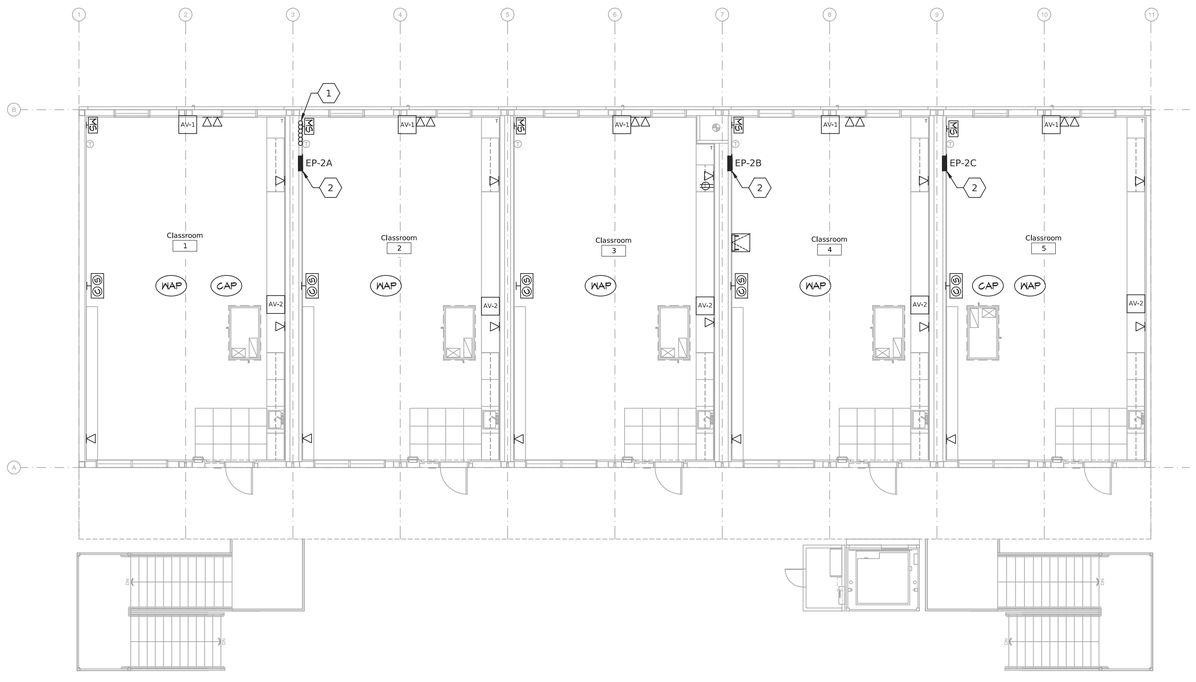
Egress Lighting Plan
E1.3

BA 17-005.5



1 E2.1 **Electrical Floor Plan - Floor 1**

SCALE: 1/8" = 1'-0"



2 E2.1 **Electrical Floor Plan - Floor 2**

SCALE: 1/8" = 1'-0"

Sheet Notes:

1. (6) 2" conduit from 1st floor t-bar ceiling to 2nd floor t-bar ceiling by Modular Manufacturer.
2. New panel provided by Modular Manufacturer.
3. New DIstribution Panel 'DPN'.
4. New outdoor IDF cabinet.
5. Provide (6) 2" liquid-tight flexible metal conduit to IDF from the IDF cabinet to the building. Connect to exterior pull box provided by the Modular Manufacturer.
6. Pit receptacle and lighting fixture provided by the Modular Manufacturer. Provide 20A circuit to connect. Provide (2) #10 + #10 GND to panel 'EP-1B' for connection.
7. Receptacle and lighting fixture for the machine room provided by the Modular Manufacturer. Provide 20A circuit to connect. Provide (2) #10 + #10 GND to panel 'EP-1B' for connection.
8. Provide (1) 40A-1P circuit for free standing IDF cooling system and (1) 20A circuit for free standing IDF network equipment. Provide (2) #8 + #10 GND and (2) #10 + #10 GND in 1¼"C liquid-tight flexible metal conduit from the IDF rack to the power box on the exterior of thie building. Connect to circuits provided by the Modular Manufacturer at this location.
9. New Intrusion control panel.
10. Elevator disconnect switch to be provided by the Modular Manufacturer. Connect per the Single Line Diagram. Coordinate location with Modular Manufacturer.
11. Elevator cab lighting/power disconnect switch to be provided by the Modular Manufacturer. Provide (2) #10 + #10 GND to panel "EP-1B' for the connection of the disconnect switch. Coordinate location with Modular Manufacturer.
12. Provide Viking #E-1600A ADA emergency elevator phone in the hallway with ADA STI cover. Provide telephone line connection. Coordinate exact requirements with the district. See detail 6/E6.1.
13. Route spare conduit to pull box. If there is not additional room in pull box, stub and cap conduit 5' away.
14. Provide new pull box to accommodate new spare conduit.

Conduit Schedule:

1. (N) (2) 4"C - Distribution panel 'DPN'
2. (N) (3) 2"C - Signal
3. (N) (1) 2½"C - Elevator motor power
4. (N) (1) 2½"C - Panel 'EP-1D'
   (N) (1) 2½"C - Panel 'EP-2A'
   (N) (1) 2½"C - Panel 'EP-2B'
   (N) (1) 2½"C - Panel 'EP-2C'
5. (N) (1) 2"C - Spare

Pullbox Schedule:

E1 - NEW B2436 ELECTRIC / POWER PULLBOX WITH TRAFFIC RATED LID. LABEL LID 'POWER'.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

MARK BARTOS
LICENSED ARCHITECT
No. C-34738
STATE OF CALIFORNIA
EXP. 03.31.23

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

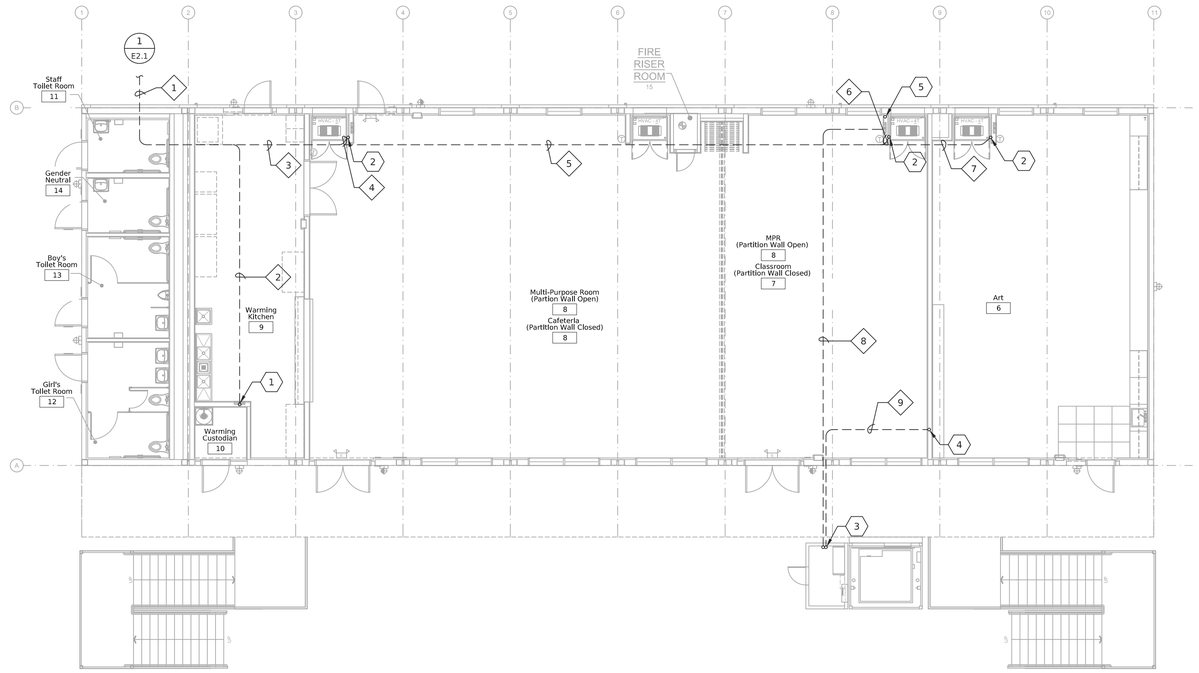
Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building.
Gault Elementary School

REGISTERED PROFESSIONAL ENGINEER
ANTHONY S. FERNANDEZ
E16890
Exp. 06/30/23
ELECTRICAL
STATE OF CALIFORNIA

American Consulting Engineers Electrical, Inc.
1590 The Alameda, Suite 200
San Jose, CA 95126
JOB # EK2100A.00
408/236-2312
Fax: 408/236-2316

Electrical Floor Plans
E2.1
BA 17-005.5



1 Electrical Under Floor Plan

E3.1

SCALE: 1/8" = 1'-0"

Sheet Notes:

1. Intercept conduit stubbed below floor by the Modular Manufacturer to feed 1st Floor panel 'EP-1D' and route to distribution panel as shown.
2. Intercept conduit stubbed below floor by the Modular Manufacturer to feed 2nd Floor panel 'EP-2A', 'EP-2B', 'EP-2C' and route to distribution panel as shown.
3. Stub conduit up to elevator equipment as required.
4. Intercept conduit stubbed below the floor by the Modular Manufacturer from the 1st Floor t-bar ceiling space and route to elevator room as shown. Conduit to be utilized for Fire Alarm and elevator connections.
5. Intercept conduit stubbed below the floor by the Modular Manufacturer from panel 'EP-1B' and route to elevator room as shown. Conduit to be utilized for elevator room 120V connections.

Conduit Schedule:

1. (N) 2½"C - Power Panel 'EP-1D'
   (N) 2½"C - Power Panel 'EP-2A'
   (N) 2½"C - Power Panel 'EP-2B'
   (N) 2½"C - Power Panel 'EP-2C'
2. (N) 2½"C - Power Panel 'EP-1D'
3. (N) 2½"C - Power Panel 'EP-2A'
   (N) 2½"C - Power Panel 'EP-2B'
   (N) 2½"C - Power Panel 'EP-2C'
4. (N) 2½"C - Power Panel 'EP-2A'
5. (N) 2½"C - Power Panel 'EP-2B'
   (N) 2½"C - Power Panel 'EP-2C'
6. (N) 2½"C - Power Panel 'EP-2B'
7. (N) 2½"C - Power Panel 'EP-2C'
8. (N) 1¼"C - Power (Elevator Circuits)
9. (N) 1¼"C - Elevator Fire Alarm
   (N) 1¼"C - Elevator Telephone

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT MARK BARTOS No. C-34738 STATE OF CALIFORNIA 03.31.23

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building.

Gault Elementary School

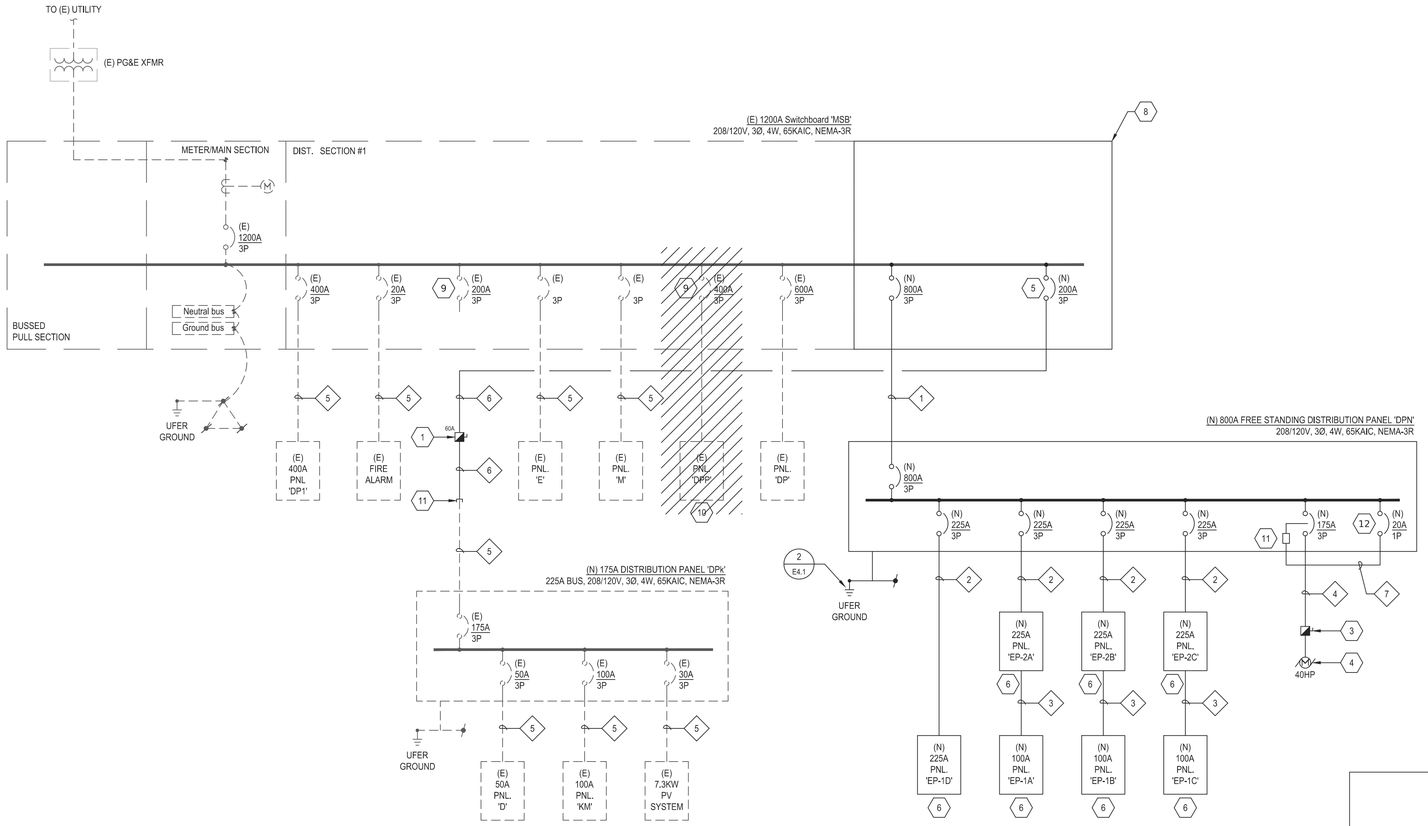
REGISTERED PROFESSIONAL ENGINEER ANTHONY S. FERNANDEZ E16890 Exp. 06/30/24 ELECTRICAL STATE OF CALIFORNIA

American Consulting Engineers Electrical, Inc.
1590 The Alameda, Suite 200
San Jose, CA 95126
JOB # DK2100A.00
408/236-2312
Fax: 408/236-2316

Electrical Under Floor Plan

E3.1

BA 17-005.5



SHEET NOTES:

1. Existing PG&E PV disconnect switch to be relocated. Reinstall in new location and reconnect as required.
2. Reconnect existing feeder to relocated disconnect switch.
3. 200A-3P fused disconnect provided by the Modular Manufacturer. Connect elevator feeder to disconnect switch as required.
4. Elevator motor and connection by Modular Manufacturer.
5. New PV circuit breaker located at the furthest point on the bus from the main circuit breaker. Provide all labels required for the PV system labeling.
6. New panel by Modular Manufacturer. Connect feeder to panel as required.
7. Provide shunt trip for elevator.
8. Provide a new distribution section for the existing switchgear. Extension shall be provided by the switchgear manufacturer and shall be UL-listed with the existing switchgear. Verify requirements in the field and provide all hardware required for a complete installation of the gear.
9. Disconnect existing feeder from circuit breaker, turn off and label circuit breaker 'SPARE'.
10. Demolish existing free standing distribution panel and remove all feeder circuits to the associated building. Remove distribution panel feeder back to the main switchboard.
11. Intercept the existing feeder serving panel 'DPK'/PV system and extend as shown in order to reconnect feeder to the new circuit breaker shown.
12. Provide 20A-1P circuit breaker for elevator shunt trip connection.
13. Connect 120V circuit for shunt trip to elevator circuit breaker via fire alarm modules. See Fire Alarm drawings for FA module requirements.

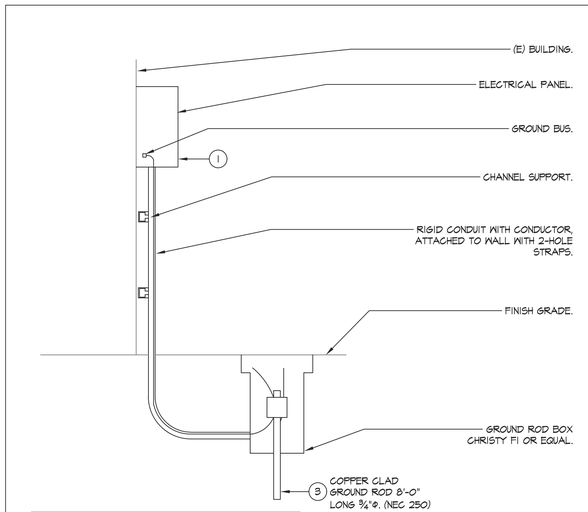
CONDUIT SCHEDULE:

1. (N) 2 sets of 4"C - (4) #600 + (1) #1/0 GND
2. (N) $2\frac{1}{2}$"C - (4) #4/0 + (1) #4 GND
3. (N) $1\frac{1}{2}$"C - (4) #2 + (1) #8 GND
4. (N) $2\frac{1}{2}$"C - (3) #4/0 + (1) #4 GND
5. Existing feeders to remain.
6. (N) 2"C - (4) #3/0 + (1) #6 GND
7. (N) $\frac{1}{2}$"C - (2) #12 + (1) #12 GND

1 SINGLE LINE DIAGRAM

E4.1

SCALE: NOT TO SCALE



NOTE:
GROUNDING TEST MUST BE BY INDEPENDENT LICENSED ELECTRICAL CONTRACTOR OR TESTING LABORATORY. PROJECT CONTRACTOR IS NOT ELIGIBLE TO RUN TEST.

1. SIZE OF CONDUCTORS SHALL COMPLY WITH NEC TABLE 250-66.
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME (NEC 250-50). IN ADDITION TO DETAIL ABOVE, BOND THE ELECTRICAL GROUND TO NEAREST METALLIC COLD WATER PIPE. (NEC 250-50)
3. CHECK RESISTANCE TO GROUND, IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS AS REQUIRED. (NEC 250-56)

2 TYPICAL GROUND INSTALLATION

E4.1

NOT TO SCALE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT MARK RICHARD BARTOS C-34738 STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building.

Gault Elementary School

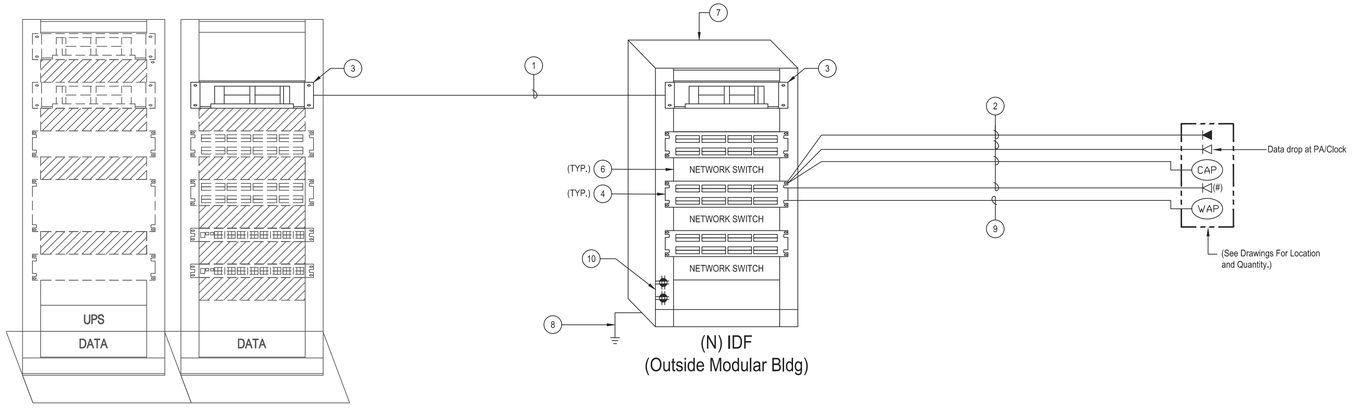
RECEIVED PROFESSIONAL ENGINEER GREGORY S. FERNANDEZ E16890 Exp. 06/30/23 ELECTRICAL STATE OF CALIFORNIA

American Consulting Engineers Electrical, Inc.
1590 The Alameda, Suite 200
San Jose, CA 95126
JOB # EX21004.00
408/236-2312
Fax: 408/236-2316

Single Line Diagram

E4.1

BA 17-005.5



(E) MDF (Building "A")

(N) IDF
(Outside Modular Bldg)

General Riser Notes:

1. See specifications for additional requirements.
2. The contractor shall be responsible for providing the quantity of data drops indicated on the floor plans and the quantity of patch panels required for the data drops.
3. Each patch panel and network switch shall have a horizontal wire manager both above and below the panel/switch. Adjacent patch panels/switches may share wire managers.
4. See specifications for district labeling requirements.
5. See specifications for district IDF cabinet layout requirements.

Riser Notes:

(1) (N) 12 strand single mode fiber optic cable. Provide LC connectors. See specifications for additional requirements.

(2) Data/jack/port requirements to intermediate distribution frame (IDF) or main distribution frame (mdf). See floor plan for quantity.

A. Install category 6 cable in conduit and/or j-hooks from each port, data location where shown on plans to IDF location, U.O.N. Make terminations at both data outlet and IDF location.

1. Route cable directly from station to IDF location without splice or interruption.
2. All data station cables terminated in the IDF will be placed into modular 48 port cat. 6 patch panels. See specifications for requirements.
3. Provide cat 6 rj45 modular jack (quantity as required). See specifications for requirements.

A. Make terminations at IDF location on (n) patch port panel. Provide all additional hardware as required.

B. Leave 36 inches of excess cable at the IDF location, before making terminations, for use as a service loop. Secure excess cable in a neat workmanlike manner.

4. All cat 6 cables are to be tested for compliance with cat 6, using a hand held network scanner. Hard copy and soft copy results are to be provided for all jacks tested. Network analyzer is to be a fluke dsp 4500 or owner approved equivalent. Soft copy results to be provide on a USB drive.
5. Any empty rj45 jack opening on the face plate will be covered with blank insert.
6. See specifications for additional requirements.

(3) Provide (N) Fiber optic patch panel. Terminate fiber optic cable to new patch panel. See specifications for additional requirements.

(4) Provide new modular data patch panel. Quantity as required to terminate all data outlets +10% spare. Patch panels shall be a 48 port panel. See specifications for additional requirements.

(5) Not used.

(6) Network switch to be provided and installed by district.

(7) Provide 24"Wx42"Dx50"H free-standing NEMA-4 IDF cabinet. Cabinet shall be provided with an integral air conditioning unit for temperature control. Cooling unit shall be 4000BTU/hr, 120V, 11.2A and be connected to a 40A circuit breaker. Manufacturer shall be DDB Unlimited and the Model number shall be #OD-50DDXC-UL50-NEMA4 with #N280416G150 cooling unit. Cooling unit power shall be connected to the circuit provided by the modular manufacturer.

(8) Provide grounding connection to building steel and/or nearest cold water pipe. Minimum grounding conductor shall be #4 cu gnd.

(9) Provide (2) CAT-6A for wireless access points to intermediate distribution frame (IDF) or main distribution fame (MDF). See floor plan for quantity.

A. Install category 6A cable in conduit and/or j-hooks from each port, data location where shown on plans to IDF location, U.O.N. Make terminations at both data outlet and IDF location.

1. Route cable directly from station to IDF location without splice or interruption
2. All data station cables terminated in the IDF will be placed into modular 48 port cat. 6A patch panels. See specifications for requirements.
3. Provide cat 6A rj45 modular jack (quantity as required). See specifications for requirements.

A. Make terminations at IDF location on (n) patch port panel. Provide all additional hardware as required.

B. Leave 36 inches of excess cable at the IDF location, before making terminations, for use as a service loop. Secure excess cable in a neat workmanlike manner.

4. All cat 6 cables are to be tested for compliance with cat 6A using a hand held network scanner. Hard copy and soft copy results are to be provide for all jacks tested. Network analyzer is to be a fluke dsp 4500 or owner approved equivalent. Soft copy results to be provide USB drive.
5. Any empty rj45 jack opening on the face plate will be covered with blank insert.
6. See specifications for additional requirements.

(10) Provide (2) GFCI quad outlets and mount in the IDF rack. Connect the outlets to the dedicated circuits provided by the modular manufacturer.

1 Data Riser Diagram

E5.1 Scale: Not to Scale

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT
MARK BARTOS RICHARD
LICENSE NO. C-14735
EXP. 08-31-23
STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building.

Gault Elementary School

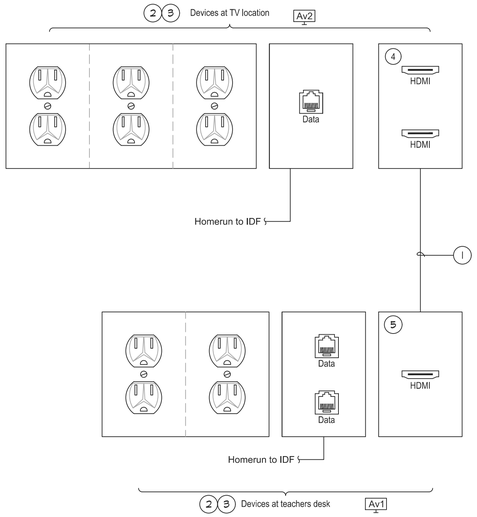
REGISTERED PROFESSIONAL ENGINEER
JOSHUA S. FERNANDEZ
E16890
Exp. 06/30/23
ELECTRICAL
STATE OF CALIFORNIA

American Consulting Engineers Electrical, Inc.
1590 The Alameda, Suite 200
San Jose, CA 95126
JOB # EK21004.00
408/236-2312
Fax: 408/236-2316

Data Riser Diagram

E5.1

BA 17-005.5



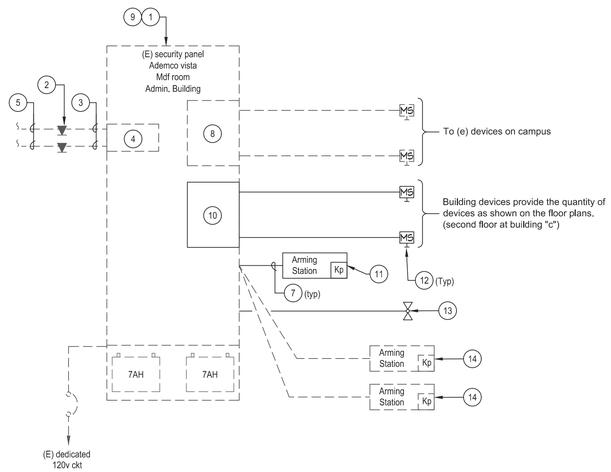
NOTES:

1. Monster MC 1000HD-50 ultra-high speed. HDTV HDMI cable.
2. Provide and install (2) 1¼"C stub up to accessible ceiling space.
3. Contractor shall coordinate with architectural drawings for exact location.
4. Provide brush plate for HDMI cables pass through.
5. Provide HDMI terminal plate for HDMI connection. Provide 6ft. HDMI patch cable for final connection to owner-provided equipment.

1 AV Devices wiring diagram (typical to all classrooms) 5 6 8 9

E6.2

Scale: Not to Scale



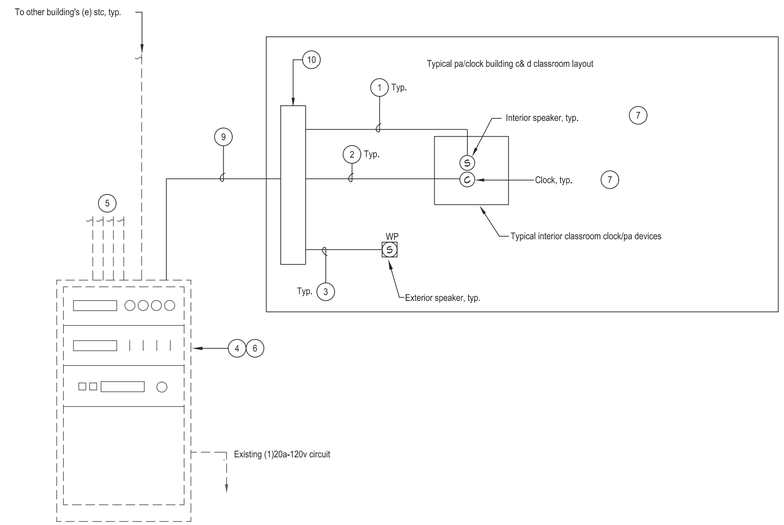
SECURITY RISER NOTES:

1. (E) ademco vista 50p security alarm panel with zone expander, phone jack, battery, and remote power supply.
2. (E) phone jacks.
3. (E) dual modular telephone cords.
4. (E) dual phone line switcher.
5. (E) cat-5e telephone cables to telephone terminal blocks.
6. Not used.
7. Provide quantity of cables as required by the system. The contractor shall be responsible for providing and properly sizing all cables per the security system manufacturer's requirements. Provide ¾" conduit minimum.
8. (E) zone expander.
9. See specifications for additional requirements.
10. (N) zone expander to match the existing.
11. Arming station/key pad to match the existing. See floor plan for location and quantity.
12. (N) motion sensor to match the existing.
13. (N) two tone siren to match the existing.
14. (E) relocated keypad. See floor plan for location.

2 Security System Riser Diagram

E6.3

NOT TO SCALE



CLOCK AND PA SYSTEM NOTES

1. Provide and connect west penn #291 twisted shielded speaker cable (West penn #aqc291 for outdoor use) from master p.A. System to new portables
2. (3) #12awg thwn
3. (1) pair #22 awg twisted shielded, westpenn 291 Or westpenn aqc357 for each speaker/intercom
4. (E) Dukane master clock, i.C. & p.A. Head-end equipment.
5. (E) clock/speaker cables connected to (e) clock/speakers and Connected to (e) master clock/pa system
6. Contractor installing the pa/clock system shall by a qualified installer with a minimum of 5 years experience installing dukane pa systems. Contractor shall be certified by the manufacturer to install dukane pa systems. The contractor shall provide all modules, hardware and accessories as required for a complete installation of the new pa speakers and clocks.
7. Clock and speaker to match existing. Contractor shall be responsible for field verifying existing type and models.
8. Not used.
9. (3) #12awg thwn + 25-pair gel filled shielded cables for speakers.
10. 18"x18"x6" signal terminal cabinet. Provide 3/4" plywood in the back of stc for mounting. Provide terminal blocks for clock connections and siemon 66-blocks for pa speakers and handsets.

1 Pa/clock Riser Diagram

E6.3

Not to scale

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT
MARK BARTOS
RENEWAL 08/31/23
STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

REGISTERED PROFESSIONAL ENGINEER
ROBERT S. FERRANTE
E16890
Exp. 06/30/23
ELECTRICAL
STATE OF CALIFORNIA

American Consulting Engineers
Electrical, Inc.
1590 The Alameda, Suite 200
San Jose, CA 95126
JOB # EK21004.00
408/236-2312
Fax: 408/236-2316

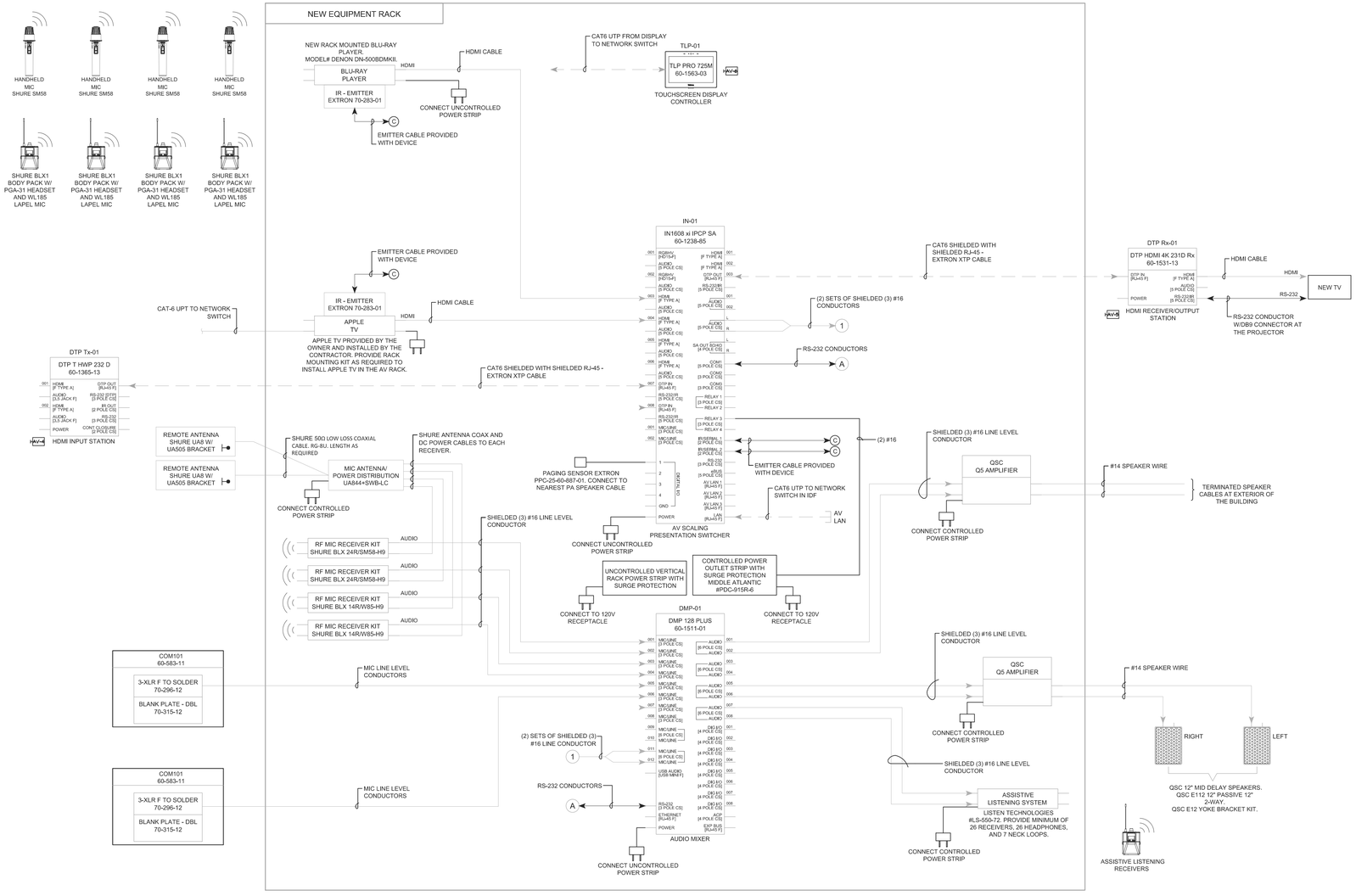
New Modular Classroom Building.

Gault Elementary School

AV & Intrusion Riser Diagrams

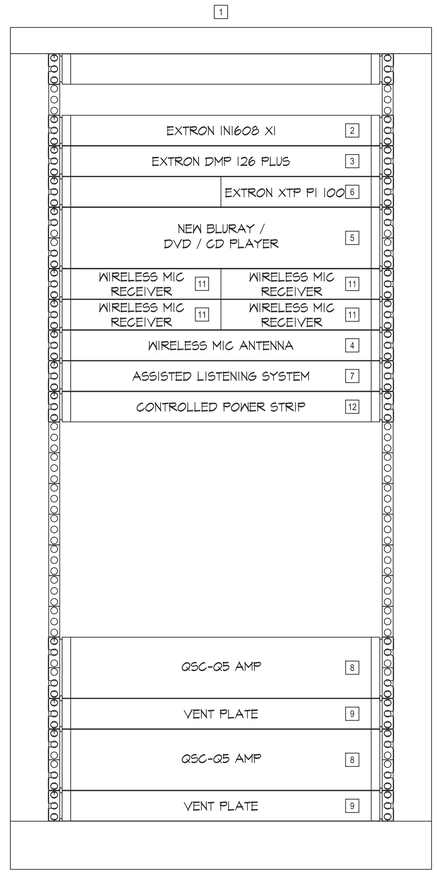
E5.2

BA 17-005.5



1 AV System Riser Diagram - Cafeteria

E6.4 NOT TO SCALE



2 AV Rack Elevation Details

E6.4 NOT TO SCALE

RACK ELEVATION NOTES:

1. NEW AV RACK. INSTALL NEW COMPONENTS INTO THE NEW RACK. REARRANGE NEW COMPONENTS, BLANKS, SHELVES, POWER SUPPLIES, ETC AS REQUIRED TO INSTALL THE NEW EQUIPMENT IN HTE NEW RACK. PROVIDE NEW BLANK PLATES FOR ALL RACK SPACES NOT USED. PROVIDE ALL MOUNTING HARDWARE REQUIRED TO MOUNT NEW EQUIPMENT INTO THE NEW RACK.
2. NEW EXTRON IN1608 XI EIGHT INPUT HDCP-COMPLIANT SCALING PRESENTATION SWITCHER WITH DTP EXTENSION.
3. NEW EXTRON DMP 128 PLUS 12x8 ProDSP DIGITAL MATRIX PROCESSORS.
4. NEW WIRELESS MICROPHONE ANTENNA.
5. NEW BLURAY / DVD / CD PLAYER.
6. NEW EXTRON XTP PI 100 POWER INJECTOR FOR PRO SERIES CONTROL SYSTEMS.
7. NEW ASSISTED LISTENING SYSTEM.
8. NEW QSC Q5 AMPLIFIER.
9. NEW VENT PLATE.
10. NOT USED.
11. NEW WIRELESS MICROPHONE RECEIVER.
12. NEW CONTROLLED SURGE PROTECTION POWER STRIP WITH DRY CONTACTS FOR CONTROLLED OUTLETS.

GENERAL NOTES:

1. ALL ROUGH-IN REQUIREMENTS FOR THE DEVICES TO BE INSTALLED SHALL BE COORDINATED WITH THE MANUFACTURER AND THE AV INSTALLER PRIOR TO THE START OF ROUGH-IN INSTALLATION. ANY ADJUSTMENTS TO BOX SIZES, MUD RINGS, AND CONDUIT SIZES SHALL BE MADE AS NECESSARY TO COMPLETE THE INSTALLATION.
2. MICROPHONE FREQUENCY SHALL BE COORDINATED WITH SHURE PRIOR TO ORDERING.
3. PROVIDE ALL HARDWARE, BRACKETS, FITTINGS, CABLES, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION OF THE AV SYSTEM.
4. ALL SPEAKER LOCATIONS SHALL BE AIMED AND ADJUSTED TO PROVIDE THE OPTIMAL COVERAGE FOR THE ROOMS. REAIM ALL SPEAKERS AS REQUIRED.
5. XLR MICROPHONES NOTED IN THE DIAGRAM SHALL BE CONNECTED TO THE NEW EXTRON MIXER.
6. ALL EXTRON EQUIPMENT SHALL BE PROVIDED AND INSTALLED BY AN EXTRON CERTIFIED INSTALLER. PROCUREMENT AND INSTALLATION OF THE EQUIPMENT MUST BE BY THE SAME VENDOR/INSTALLER.
7. EXTRON AV SYSTEM CONNECTS TO THE OWNER'S DATA NETWORK. THE CONTRACTOR SHALL COORDINATE THE REQUIREMENTS FOR CONNECTION TO THE DISTRICT'S DATA NETWORK WITH THE DISTRICT'S IT STAFF AS NEEDED TO COMPLETE THE INSTALLATION.
8. EXTRON AV SYSTEM CONNECTS TO THE OWNER'S DATA NETWORK. THE CONTRACTOR SHALL COORDINATE THE REQUIREMENTS FOR CONNECTION TO THE DISTRICT'S DATA NETWORK WITH THE DISTRICT'S IT STAFF AS NEEDED TO COMPLETE THE INSTALLATION.
9. ALL CABLING PROVIDED FOR THE AV SYSTEM SHALL BE COORDINATED WITH THE AV SYSTEM MANUFACTURER PRIOR TO INSTALLATION. ANY ADJUSTMENTS TO WIRING TYPE SHALL BE MADE AS NEEDED TO PROVIDE A COMPLETE INSTALLATION.
10. PROVIDE MINIMUM 4 HOURS TRAINING FOR THE OWNER'S STAFF ON PROPER OPERATION OF THE SYSTEM. TRAINING SHALL INCLUDE ALL COMPONENTS OF THE SYSTEM AND HOW TO OPERATE THE SYSTEM.
11. REMOTE ANTENNA LOCATIONS SHALL BE PER THE MANUFACTURER'S RECOMMENDATIONS. MICROPHONE AND ASSISTED LISTENING SYSTEM ANTENNAS SHALL BE PROVIDED WITH THE REQUIRED DISTANCE APART TO AVOID INTERFERENCE.
12. PROVIDE THE PROGRAMMING NECCESARY FOR THE GUI OF THE TOUCHSCREEN DISPLAY. COLOR SCHEMES SHALL BE COORDINATED WITH THE DISTRICT TO MATCH THE SCHOOL COLORS/MASCOT. CONTRACTOR SHALL INCLUDE THE PROGRAMMING FOR THE FUNCTIONING OF THE SYSTEM AND INTERFACE REQUIREMENTS TO MEET THE OWNER'S NEEDS AND REQUIREMENTS FOR THE USE OF THE SPACE. CONTRACTOR SHALL INCLUDE MEETINGS AS REQUIRED TO GATHER THE DIFFERENT SCENE INFORMATION FROM THE OWNER TO PROPERLY PROGRAM THE SYSTEM. SYSTEM PROGRAMMING SHALL BE COORDINATED WITH THE OTHER SCHOOL SITES TO BE INSTALLED WITH THE NEW SYSTEM TO ENSURE THAT THE PROGRAMMING FOR EACH SITE MATCHES AND FUNCTIONALITY IS CONSISTENT BETWEEN THE SCHOOL SITES. ALL PROGRAMMING FOR THE SYSTEM SHALL BE INCLUDED IN THE SCOPE OF WORK. DEVICE SCHEDULING SHALL BE INCLUDED IN THE PROGRAMMING. PROGRAMMING AND TIME ON/OFF SHALL BE COORDINATED WITH THE OWNER. BASIC PROGRAM SHOULD BE ALL EQUIPMENT POWERED OFF AT 11PM AND ALL EQUIPMENT POWERED ON UPON ONCROL INPUT TO THE TOUCHSCREEN DISPLAY.

EQUIPMENT SCHEDULE:

HTV	NEW WALL MOUNTED TV.
	NEW 12" WALL MOUNTED SPEAKER.
	NEW XLR MICROPHONE OUTLET.
	NEW REMOTE MOUNTED MIC AND ASSISTED LISTENING SYSTEM ANTENNAS.
AV-I	NEW WALL-MOUNTED AV INPUT.
AV-O	NEW WALL-MOUNTED AV OUTPUT.
AV-C	NEW WALL-MOUNTED AV TOUCH SCREEN DISPLAY.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT MARK BARTOS No. C-34138 STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building.
Gault Elementary School

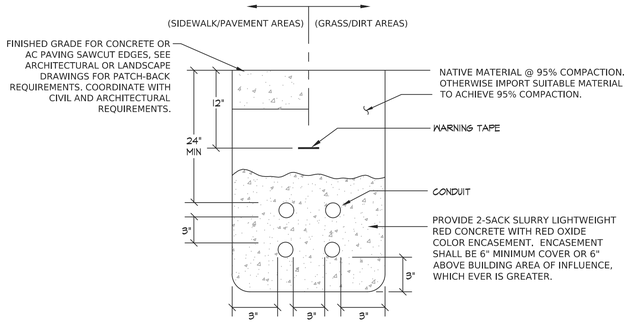
REGISTERED PROFESSIONAL ENGINEER GREGORY S. FERNANDEZ E16690 Exp. 06/30/23 ELECTRICAL STATE OF CALIFORNIA

American Consulting Engineers Electrical, Inc.
1590 The Alameda, Suite 200
San Jose, CA 95126
JOB # EX21004.00
408/236-2312
Fax: 408/236-2316

Cafeteria AV Riser Diagram

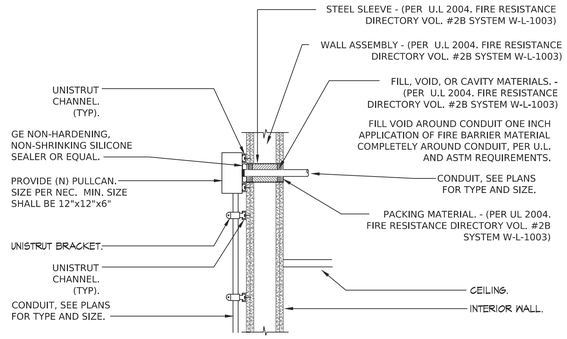
E5.3

BA 17-005.5



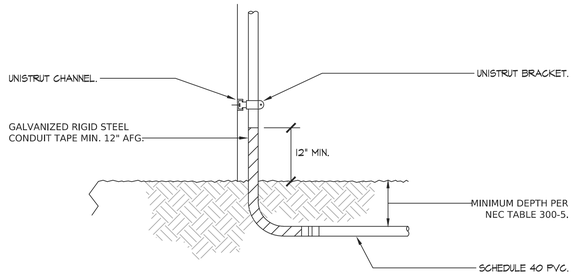
1 / E6.1 **Typical Trench Detail**

SCALE: NOT TO SCALE



2 / E6.1 **Conduit Riser and Wall Penetration**

NOT TO SCALE



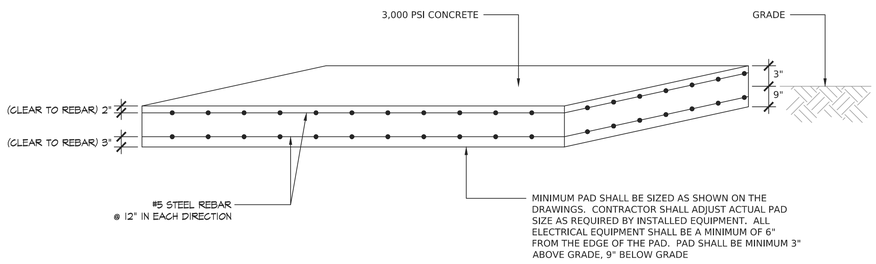
NOTE:

1. FOR WOOD STUD WALL: USE ⅜" LAG BOLT WITH MIN. ¾" EMBEDMENT INTO STUDS. (ONE AT EACH END OF BRACKET)

2. FOR CONCRETE WALL: USE ⅜" WEDGE ANCHOR WITH MIN. 2 ½" EMBEDMENT INTO CONCRETE WALL. (ONE AT EACH END OF BRACKET).

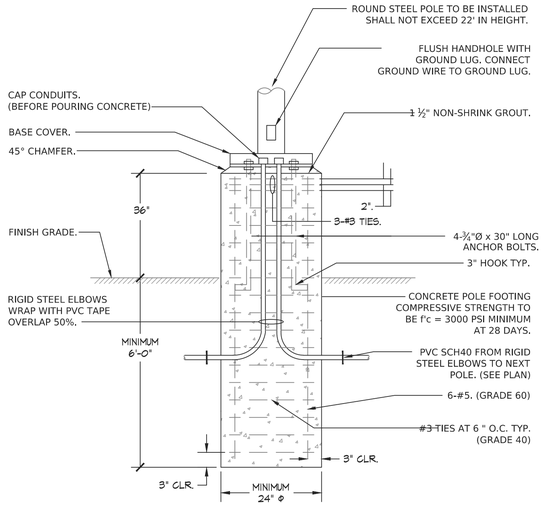
3 / E6.1 **Underground Conduit Riser Detail**

NOT TO SCALE



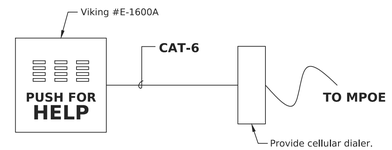
4 / E6.1 **Concrete Electrical Equipment Pad (Main Switchboard)**

NOT TO SCALE



5 / E6.1 **Typical Raise Pole Base Detail**

NOT TO SCALE (NOT PART OF DSA STRUCTURAL REVIEW PER IR A-22)
(POLE LESS THAN 35')



6 / E6.1 **Elevator ADA Telephone Switch**

NOT TO SCALE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT MARK BARTOS RICHARD C-44738 REGISTERED 12-31-22 STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building.

Gault Elementary School

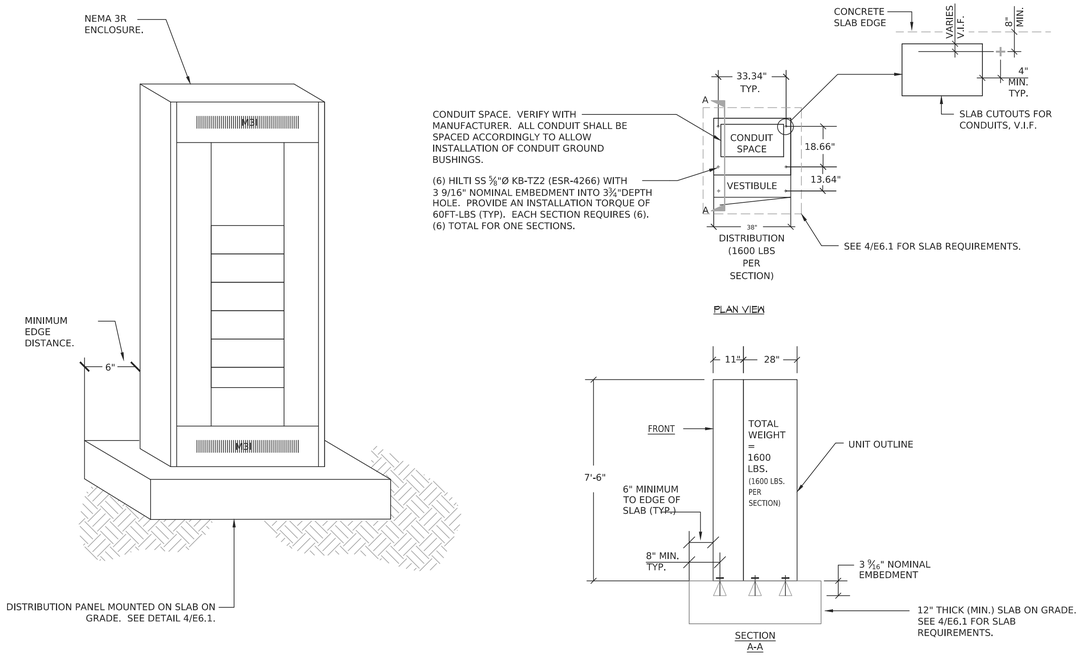
REGISTERED PROFESSIONAL ENGINEER GREGORY S. FERNANDEZ E16890 Exp. 06/30/23 ELECTRICAL STATE OF CALIFORNIA

American Consulting Engineers Electrical, Inc.
1580 The Alameda, Suite 200
San Jose, CA 95126
JOB # EX21004.00
408/236-2312
Fax: 408/236-2316

Electrical Details

E6.1

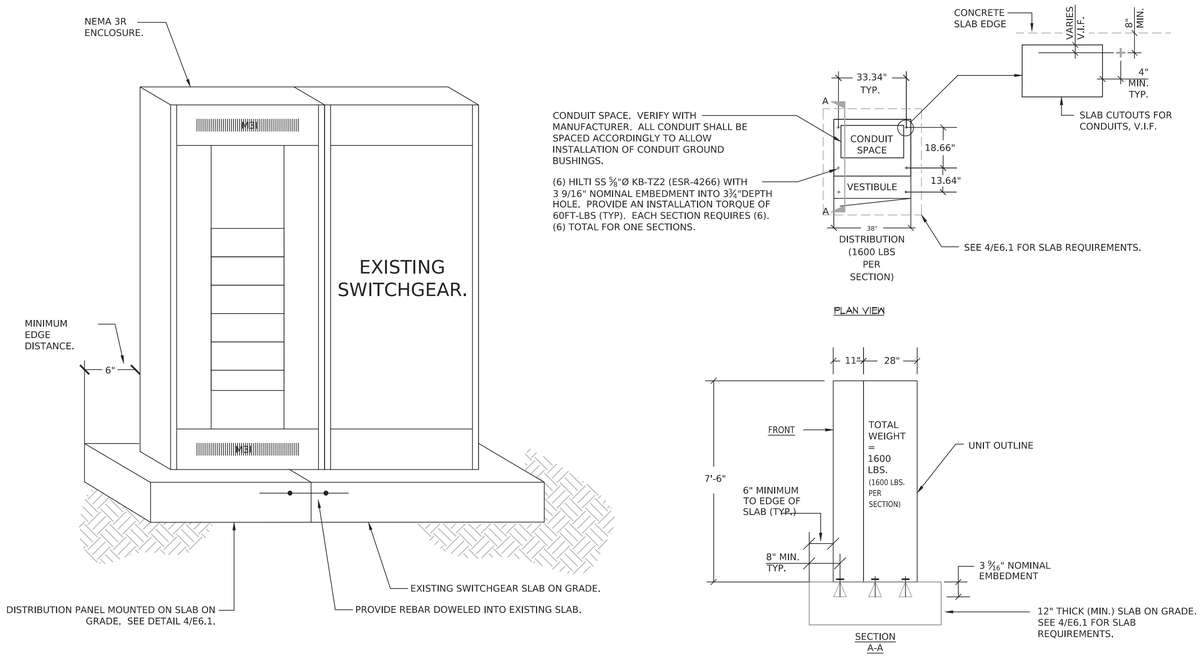
BA 17-005.5



FREE-STANDING NEMA-3R DISTRIBUTION PANEL ELEVATION AND DISTRIBUTION PANEL ANCHORAGE DETAIL

1 / E6.2

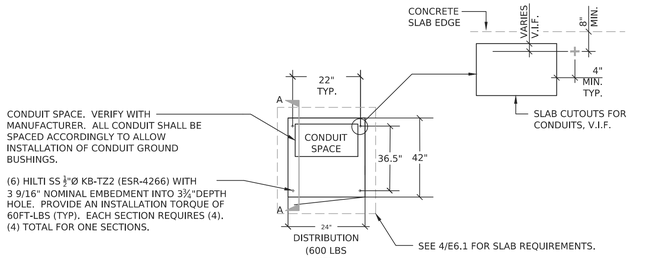
NOT TO SCALE



NEMA-3R DISTRIBUTION PANEL ELEVATION AND DISTRIBUTION PANEL ANCHORAGE DETAIL

1 / E6.2

NOT TO SCALE



FREE-STANDING EXTERIOR IDF CABINET ELEVATION AND ANCHORAGE DETAIL

3 / E6.2

NOT TO SCALE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT
MARK BARTOS
RENEWAL 08/31/23
STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building.

Gault Elementary School

REGISTERED PROFESSIONAL ENGINEER
GREGORY S. FERNANDEZ
E16890
Exp. 06/30/23
ELECTRICAL
STATE OF CALIFORNIA

American Consulting Engineers
Electrical, Inc.
1590 The Alameda, Suite 200
San Jose, CA 95126
JOB # EK21004.00
408/236-2312
Fax: 408/236-2316

Electrical Details

E6.2

BA 17-005.5

Public school fire alarm system general notes:

1. The fire alarm system shall conform to article 760, Ca elec. code. Wiring must be listed for use as required by title 24/cec, article 760. Minimum wire shall be two (2) #16 awg for initiating circuits and two (2) #12 awg for indicating circuits.
2. Wire used in wet locations shall be of an approved type in accordance with 3-310-8, t24/cec (i.E. Thhw or equal).
3. Underground and exterior conduits to have watertight fittings and wires approved for wet location.
4. All conductors shall be routed in conduit unless specifically noted otherwise on plans. Minimum conduit size shall be 3/4."
5. The conduit and wire shown on these plans are shown diagrammatically. Exact locations shall be determined in the field to suit field conditions. "As-built" plans shall be maintained and be provided as required by the project inspector of record.
6. Penetrations of fire rated walls shall be protected in accordance with california building code, chapter 7, title 24.
7. All devices shall be "CSFM" listed.
8. Exterior devices shall be listed for exterior use by "CSFM."
9. Audible alarm produced by the fire alarm system shall be capable of producing a distinctive three-pulse temporal pattern fire alarm evacuation signal.
10. Audible devices to be at least 15 dba above the equivalent sound level but not less than 75 dba at 10 feet or more than 110 dba in total, throughout.
11. Where visual devices are required, visual device should not exceed 2 flashes per second and should not be slower than 1 flash every second. The device shall have a pulsing light source not less than 15 candela. No place in any room shall be more than 50 feet from a device.
12. Contractor shall provide copies of approved plans to the project inspector of record prior to beginning work. The contractor shall submit submittal booklet to engineer prior to purchase for review. The fire protection system shall not be installed until submittal booklets have been submitted to and approved by the engineer of record.
13. Final test shall be made with DSA inspector of record (IOR). Local fire authority having jurisdiction shall be notified of date and time of fire alarm testing and shall assist/witness such testing when able. Contractor shall repeat testing as necessary until satisfactory results are achieved.
14. Fire alarm contractor shall provide a "record of completion" to the inspector of record (ior)/dsa after completion of operational acceptance tests.
15. Power service shall be on a dedicated branch circuit with a red marking and identified as "fire alarm circuit control".
16. All alarm signals are to be transmitted to an approved UL-listed supervising station and shall comply with sb 575 policy.
17. The maximum spacing of smoke detectors shall be 30 feet and heat detectors shall be 50 feet of separation. In the event an accessible ceiling space is discovered during the course of the project, the contractor shall provide additional heat detectors and access hatches as necessary.
18. Project inspector shall field verify candela setting on strobes due to field adjustability.
19. Each signaling line circuit for FACP is capable of serving a maximum of 60 devices in any combination (detectors and modules).
20. Provide a permanent sign on the exterior door stating "fire alarm panel" for all rooms with remote power supplies or facp's. Contractor to provide fabricated nameplate sign. Provide and obtain approved standards from district. Provide submittals for architects approval.
21. Project inspector shall verify that there are no accessible ceiling spaces for the rooms in the scope of work.
22. In the event that the fire alarm system is offline during school hours, contractor shall be responsible for providing a fire watch.
23. There shall be no splicing of fire alarm conductors between terminations of fire alarm devices, unless specifically noted otherwise. Fire alarm conductors shall be continuous from device to device. Splices are permitted at the building fire alarm terminal can. Splices in in-grade pullboxes are not permitted, no exceptions.
24. Applicable standard 2019 NFPA 72.
25. Installation of the systems shall not be started until detailed design documents and specification, including state fire marshal listing numbers for each component of the system has been approved by DSA.
26. Upon completion of the installation of the systems, a satisfactory test of the entire system shall be made in the presence of a DSA project inspector.
27. A stamped set of approved fire alarm design documents shall be on the job site and used for installation.
28. Any discrepancies between the drawings and the code or recognized standards shall be brought to the attention of DSA and the Architect/Engineer of the project.
29. Wall mounted visual notification devices shall have their bottoms mounted at 80" minimum and 96" maximum from finished floor.
30. Wall mounted audible notification devices shall have their tops mounted at 90" minimum and 100" maximum from finished floor and no closer than 6" to a horizontal structure.
31. The contractor shall adjust/install all devices to maximize performance and to minimize false alarms.
32. All fire alarm wiring shall be FLP or FPLP (fire power limited or fire power limited plenum) as required for application. Wiring in conduit above ground may be THHN or THWN.
33. Per CEC standards, all wiring is to be pulled through each junction box and connected directly to each fire device. Do not splice the wire. There must be at least 6" of lead wire from the box to the device. All boxes to be sized per CEC.
34. Smoke detectors shall not be any closer than 1 foot from fire sprinklers or 3 feet from any supply diffuser. In area of construction or possible damage/contamination on newly installed fire alarm devices shall be covered until that area is ready to be turned over to the owner.
35. All fire alarm circuits shall be in conduit, surface raceway or open run above ceilings, under floors and in walls in a neat and protected manor as indicated on design documents. Exposed circuits are only permitted when noted as exposed on design documents.
36. Fire alarm panel, remotes, and components shall be secured to mounting surfaces per manufacturers specifications. No single device shall exceed the weight of 20 lbs. without special mounting details.
37. A dedicated branch circuit shall be provided for fire alarm equipment. This circuit shall be energized from the common use area panel and shall have no other outlets. The breaker shall have a red locking device to block the handle in the "ON" position. The circuit breaker shall be labeled "fire alarm circuit control". Circuit id to be labeled at fire panel/extenders.
38. Supervisory monitoring shall be tested and verified as sending correct signals in conjunction with final acceptance test.
39. Owner shall be responsible for establishing a fire system monitoring contract or provisions.
40. Coordinate with A.F.S.S. professional.
41. Applicable standard 2019 NFPA 72.
42. Any discrepancies between the drawings and the code or recognized standards shall be brought to the attention of DSA and the Architect/Engineer of the project.
43. DSA, Architect/Engineer and owner shall be notified a minimum of 48 hours prior to the final inspection and/or testing.
44. All penetrations through rated assemblies, requiring opening protection shall be provided with a penetration fire stop system as identified in CBC Chapter 7, UL or other lab testing criteria. Approved type of materials shall be identified within the specification within the fire alarm section.
45. Audible devices to be at least 15 DBA above the average ambient sound level but not less than 75 DBA at 10 feet or more than 110 DBA at the minimum hearing distance. Sound level shall be maintained for duration of at least 60 sections 5 DBA must be maintained.
46. Audible devices shall be synchronized temporal code 3 pattern.
47. Underground and exterior conduits to have watertight fittings and wire to be approval for wet locations.
48. The installing contractor shall provide a record of completion per NFPA 72, Figure 10.18.2.1.1.
50. Control panels, remote annunciators shall be installed with their bottoms mounted at 48".
51. The installing contractor shall provide system programming for supervisory monitoring per CBC Section 901.6.2.
52. Provide EOR or rewire/reconfigure NAC circuit to take existing FA Notification System offline during construction. Remove (e) FA devices and re-program panel as required to take SLC offline during construction.
53. All exterior conduits shall be Galvanized Rigid Steel.

Project description:

1. Occupancy: Elementary School
2. Type of system: New fully automatic addressable, voice evacuation system and devices for new classroom building. Connect to existing FACP located in existing Admin building. UL-certified central station monitoring.
3. Scope of work: Provide new fire alarm field devices in new modular building. Provide (N) Notifier NFS2-3030 FACP with Voice Evacuation and network to (E) FACP NFS-640.
4. Fire alarm system Signaling line circuit is class B, style 4; Initiation device circuit is class B, style B; Notification circuit is class B, style Y.
5. Fire alarm system designer: John Cacka
   Principal in charge: Sammy S. Fernandez

Applicable fire alarm codes, standards and guides:

codes:

1. 2019 California Building Standards Administrative Code, Part 1, Title 24 C.C.R.
2. 2019 California Building Code (CBC), Part 2, Title 24 C.C.R.
3. 2019 California Electrical Code (CEC), Part 3, Title 24 C.C.R.
4. 2019 California Mechanical Code (CMC), Part 4, Title 24 C.C.R.
5. 2019 California Plumbing Code (CPC), Part 5, Title 24 C.C.R.
6. 2019 California Energy Code.
7. 2019 California Fire Code.
8. Title 19 C.C.R., public safety, state fire marshal regulations.

Standards and guides:

1. NFPA 72, National Fire Alarm Code, 2016 edition with California amendments.

Symbol list:

1 / E0.1 — Plan, detail or section designation.

201 — Room number.

1 — Sheet reference symbol - see associated note on same sheet.

wiring & conduit run symbols

Conduit - concealed in walls or ceiling.

Conduit - exposed.

Conduit - in or below floor: |q3|w/|a4|s"min.

#10 / G — Conduit - home run to panel, terminal cabinet, etc. Runs marked with crosshatches indicate number of #12 awg wires. Crosshatch with subscript "g" indicates green ground wire. Size conduit according to specifications and applicable code. Crosshatches with "#10" indicates wire size other than #12's.

Flex conduit with connection.

Conduit - stub up.

Conduit - stub down.

Capped conduit.

Conduit continuation.

Power distribution single line symbols

Circuit breaker.

Fa equipment device

EoI — End of line resistor

Cable Schedule:

A - (1) #14 Unshielded twisted pair for Signaling line circuits.
B - (2) #12 for Strobe circuits
C - (1) #12 Shielded twisted pair for Speaker Circuits
D - (1) 6-Strand single mode fiber optic cable OM3 with LC connector
E - (2) #12 thwn-2

Sheet Index:

FA0.1	Fire Alarm Cover Sheet
FA1.1	Fire Alarm Site Plan
FA2.1	Fire Alarm Floor Plans
FA3.1	Fire Alarm Riser Diagram
FA3.2	Fire Alarm Battery Calculations
FA4.1	Fire Alarm Details

Fire alarm system operational matrix

Cause	Alarm: Effect: Alarm at FACP	Alarm: Send alarm signal to monitoring station	Alarm: Activate audibles	Alarm: Activate visuals	Alarm: Activate audiovisuals	Alarm: Shutdown associated ahu	Trouble: Trouble at FACP	Trouble: Send trouble signal to monitoring station	Supervisory: Supervisory at FACP	Supervisory: Send trouble signal to monitoring station	Misc.: Deactivate audibles	Misc.: Deactivate visuals	Misc.: Deactivate audiovisuals	Misc.: System normal	Remarks
Smoke detector	•	•	•	•	•										
Attic Heat detector	•	•	•	•	•										
Manual Pull Station	•	•	•	•	•										
Fire Sprinkler Flow Switch	•	•	•	•	•										
Fire Sprinkler Tamper Switch									•	•					
Ac power failure							•	•		•					
Signal silence											•	•	•		
System reset											•	•	•	•	
Fire alarm trouble (open, shorts, or grounds) on initiation or signaling circuits							•	•							

Abbreviations

A	Ampere
ABV	Above
AF	Amp frame or amp fuse
AFF	Above finished floor
ARCH	Architectural
AS	Amp switch
AT	Amp trip
ATS	Automatic transfer switch
BKR	Breaker
BLDG	Building
C	Conduit
CATV	Cable television
CB	Circuit breaker
CD	Candelas
CKT	Circuit
CL	Center line
CLG	Ceiling
CO	Conduit only
CSFM	California state fire marshal
CTR	Center
(D)	Demolish
DET	Detail
DIM	Dimension
DISTR	Distribution
DWG	Drawing
(E)	Existing
EM	Emergency
EQPT	Equipment
FA	Fire alarm
FACP	Fire alarm control panel
FATC	Fire alarm terminal can
(F)	Future
FIN	Finish
FL	Floor
G, GND	Ground
HGT	Height
HP	Horsepower
IC	Intercom
IDF	Intermediate distribution frame
JB	Junction box
KAIC	Kiloampere interrupting capacity
KV	Kilovolt
KVA	Kilovolt amperes
KW	Kilowatt
LTG	Lighting
MCM	Thousand circular mils
MDF	Main distribution frame
MECH	Mechanical
MH	Manhole
MTD	Mounted
MTG	Mounting
(N)	New
NC	Normally closed
NIC	Not in contract
NIEC	Not in electrical contract
NO	Number/ normally open
NTS	Not to scale
O.C.	On center
P	Pole circuit breaker
PA	Public address
PB	Pull box
PF	Power factor
PH	Phase
PNL	Panel
(R)	Existing to be relocated
REQD	Required
REQT	Requirement(s)
RM	Room
RSC	Rigid steel conduit
SHT	Sheet
SW	Switch
SWBD	Switchboard
TC	Terminal cabinet
TEL	Telephone
TYP	Typical
UON	Unless otherwise noted
V	Volt
W	Watt
WP	Weatherproof
XFMR	Transformer

Fire Alarm Equipment Schedule:

15cd	Fire Alarm: (N) 15 Candela Speaker/Strobe (Ceiling) Model: System Sensor SPSCWL CSFM: 7320-1653:505
30cd	Fire Alarm: (N) 30 Candela Speaker/Strobe (Ceiling) Model: System Sensor SPSCWL CSFM: 7320-1653:505
(WP)	Fire Alarm: (N) Weatherproof Wall Speaker Model: System Sensor SPWK SpectrAlert Advance CSFM: 7320-1653:201
	Fire Alarm: (N) Smoke Detector w/ Base Model: Notifier FSP-851/B210LP CSFM: 7272-0028:206/7300-0028:109
	Fire Alarm: (N) Attic Heat Detector w/ Base Model: Notifier FST-851H / B210LP CSFM: 7270-0028:196 / 7300-1653:109
	Fire Alarm: (N) Attic Heat Detector w/ Base Model: Notifier FST-851 / B210LP CSFM: 7270-0028:196 / 7300-1653:109
	Fire Alarm: (N) Thermotech Rate Compensation Heat Detector Model: Thermotech, Inc. 302-ET-135 CSFM: 7270-0021:001
RM	Fire Alarm: (N) Relay Module Model: Notifier FRM-1 CSFM: 7300-0028:219
MM	Fire Alarm: Monitor Module Model: Notifier FMM-101 CSFM: 7300-0028:219
C	Fire Alarm: Control Module Model: Notifier FCM-1 CSFM: 7300-0028:219
MR 101	FIRE ALARM: (N) MULTI-VOLTAGE CONTROL RELAY MODULE MODEL: NOTIFIER MR-101/C CSFM: 7300-1004:101
ISO	Fire Alarm: (N) Fault Isolator Module Model: Notifier ISO-X CSFM: 7300-0028:261
RPS	FIRE ALARM: (N) Addressable Charger / Power Supply Model: Notifier ACPS 610 CSFM: 7165-0028:224
AMP	FIRE ALARM: (N) REMOTE DIGITAL AUDIO AMPLIFIER MODEL: NOTIFIER DAA2-5025 CSFM: 7165-0028:224
	FIRE ALARM: (N) Addressable Manual Pull Station Model: Notifier NBG-12LX CSFM: 7150-0028:199
NGA	FIRE ALARM: (N) FIRE ALARM NETWORK GRAPHIC ANNUCIATOR MODEL: NOTIFIER NCA-2 CSFM: 7165-0028:224 FIRE ALARM: (N) PAGING MICROPHONE MODEL: NOTIFIER CMIC-1 CSFM: 7165-0028:224 FIRE ALARM: (N) DIGITAL VOICE COMMAND MODULE MODEL: NOTIFIER DVC EM CSFM: 7165-0028:224 FIRE ALARM: (N) KEYPAD BOARD MODEL: NOTIFIER DVC KD CSFM: 7165-0028:224 FIRE ALARM: (N) NETWOK CARD MODEL: NOTIFIER HS-NCM-SF CSFM: 7165-0028:224 FIRE ALARM: (N) POWER SUPPLY MODEL: NOTIFIER AMPS-24 CSFM: 7165-0028:224 FIRE ALARM: (N) ONYX SERIES 3 ROW BACK BOX MODEL: NOTIFIER SBB-C4 CSFM: 7165-0028:224 FIRE ALARM: (N) ONYX SERIES 3 ROW BACK BOX MODEL: NOTIFIER DR-C4 CSFM: 7165-0028:224
FACP	FIRE ALARM: (N) Fire Alarm Control Panel MODEL: NOTIFIER NFS2-3030 CSFM: 7165-0028:224 FIRE ALARM: (N) UNIVERSAL DIGITAL ALARM COMMUNICATOR TRANSMITTER MODEL: NOTIFIER UDACT-2 CSFM: 7165-0028:224 FIRE ALARM: (N) WIRELESS DIGITAL COMMUNICATOR MODEL: NOTIFIER IPGSM-4G CSFM: 7165-0028:224 FIRE ALARM: (N) Loop Control Module MODEL: NOTIFIER LCM 320 CSFM: 7165-0028:224 FIRE ALARM: (N) Digital Voice Command Module MODEL: NOTIFIER DVC EM CSFM: 7165-0028:224 FIRE ALARM: (N) Keypad Board MODEL: NOTIFIER DVC KD CSFM: 7165-0028:224 FIRE ALARM: (N) System Cabinet MODEL: NOTIFIER CAB-4 "D" SERIES CSFM: 7165-0028:224 FIRE ALARM: (N) Battery Box MODEL: NOTIFIER NFS LBB CSFM: 7165-0028:224

Note: All interior speaker power settings shall be 1/2 watt, u.o.n.
All exterior speaker power settings shall be 2 watt, u.o.n.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT — MARK RICHARD BARTOS — No. C-34138 — EXP. 08-31-23 — STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building.

Gault Elementary School

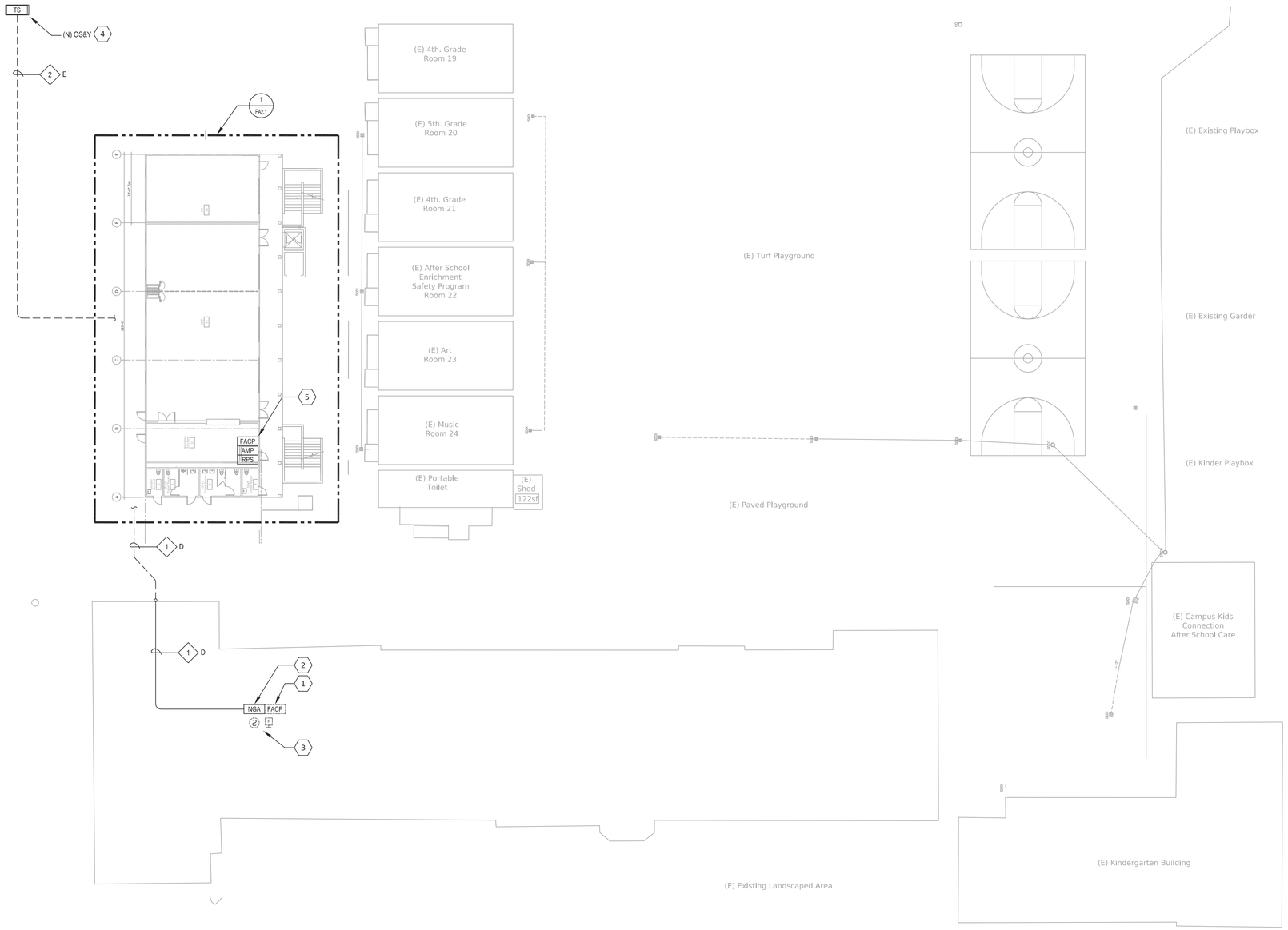
REGISTERED PROFESSIONAL ENGINEER — SAMMY S. FERNANDEZ — E16890 — Exp. 06/30/23 — ELECTRICAL — STATE OF CALIFORNIA

American Consulting Engineers
Electrical, Inc.
1590 The Alameda, Suite 200
San Jose, CA 95126
JOB # EX21004.00
408/236-2312
Fax: 408/236-2316

Fire Alarm Cover Sheet

FA0.1

BA 17-005.5



1 FA1.1 **Fire Alarm Site Plan**

SCALE: 1" = 20'-0"

Cable Schedule:

A - (1) #14 Unshielded twisted pair for Signaling line circuits.
B - (2) #12 for Strobe circuits
C - (1) #12 Shielded twisted pair for Speaker Circuits
D - (1) 6-Strand single mode fiber optic cable OM3 with LC connector
E - (2) #12 thwn-2

SHEET NOTES:

1. Existing FACP to remain in Admin office. Verify exact location in the field.
2. New network Annunciator in Admin office. Verify exact location in the field.
3. Existing smoke detector and manual pull station in the same room as the (E) FACP.
4. New OS&Y valve. Connect fire alarm to flow switch and tamper switch as required. See floor plan for additional requirements.
5. New fire alarm control panel Notifier NFS2-3030, remote power supply and amplifier. See floor plan for additional requirements.

CONDUIT SCHEDULE:

1. (N) (1) 2"C - Fire Alarm
2. (N) (1) 1"C - Fire Alarm For OS&Y

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT MARK BARTOS No. C-34735 STATE OF CALIFORNIA 10-31-22

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building.
Gault Elementary School

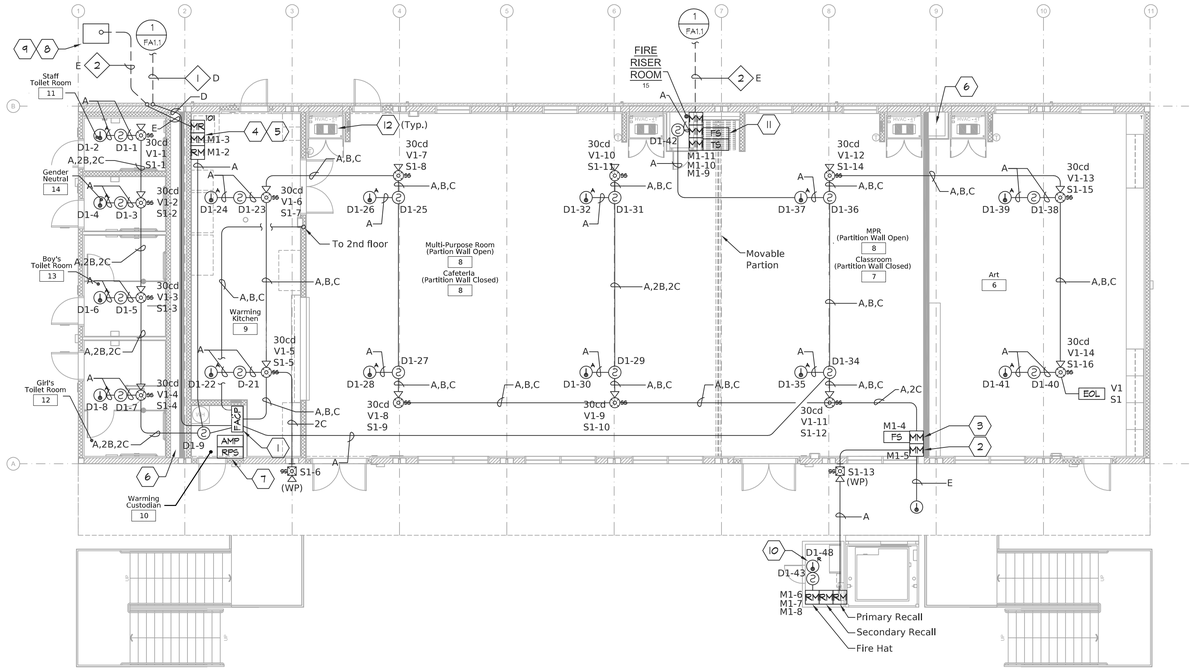
REGISTERED PROFESSIONAL ENGINEER JEREMY S. FERNANDEZ E16890 Exp. 06/30/23 ELECTRICAL STATE OF CALIFORNIA

American Consulting Engineers Electrical, Inc.
1590 The Alameda, Suite 200
San Jose, CA 95126
JOB # EX21004.00
408/236-2312
Fax: 408/236-2316

Fire Alarm Site Plan

FA1.1

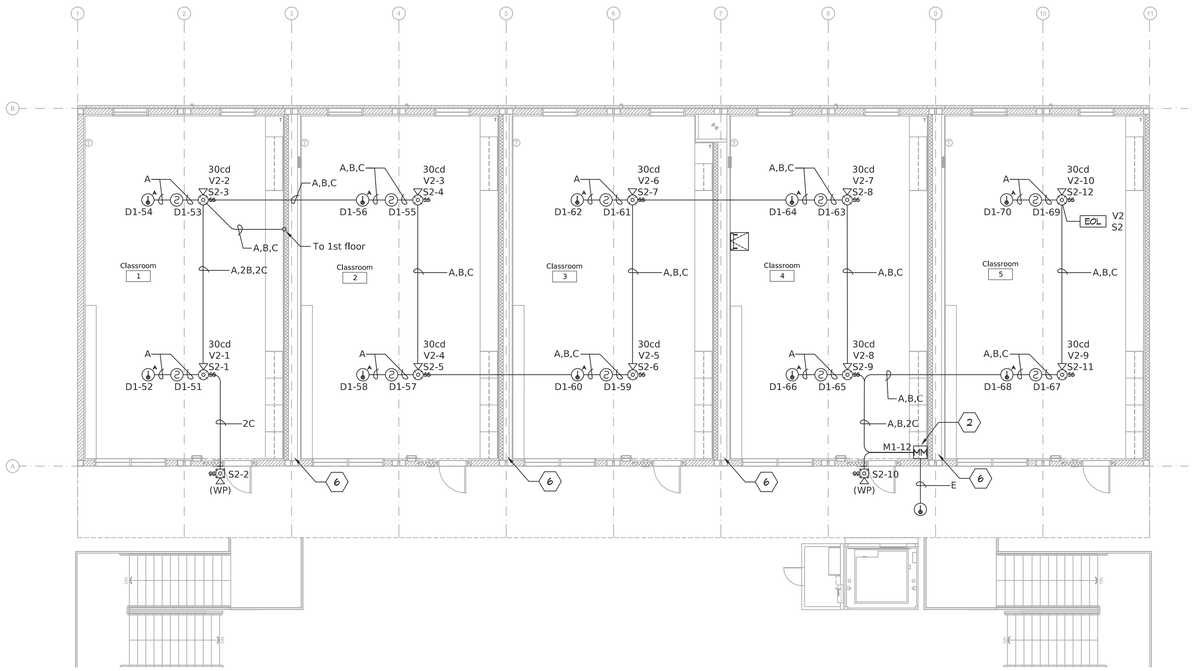
BA 17-005.5



1 FA2.1

Fire Alarm Floor Plan - Floor 1

SCALE: 1/8" = 1'-0"



2 FA2.1

Fire Alarm Floor Plan - Floor 2

SCALE: 1/8" = 1'-0"

Cable Schedule:

A - (1) #14 Unshielded twisted pair for Signaling line circuits.
B - (2) #12 for Strobe circuits
C - (1) #12 Shielded twisted pair for Speaker Circuits
D - (1) 6-Strand single mode fiber optic cable OM3 with LC connector
E - (2) #12 thwn-2

Sheet Notes:

1. New Notifier NFS2-3030 FACP.
2. Provide new monitor module above T-bar ceiling for Thermotech heat detector monitoring.
3. Provide new monitor module for flow switch monitoring.
4. Provide (N) relay module and multi-voltage relay for elevator motor shunt trip circuit breaker.
5. Provide 120V circuit for the elevator motor shunt trip circuit breaker. Route 120V power from modular building electrical panel.
6. Area does not have ceiling and wall finish ends just above t-bar ceiling. Area is served by nearest attic heat detector. See 16/S9.1 for wall section.
7. New Notifier remote power supply and amplifier.
8. Exterior free standing distribution panel.
9. Connect 120V shunt trip circuit to elevator circuit breaker shunt trip relay.
10. Install new heat detector within 2' from the sprinkler head in the machine room as required.
11. Provide new monitor modules for new OS&Y, flow switch and tamper switch monitoring.
12. Indoor mechanical unit installed in alcove. Mechanical unit extends from finish floor to t-bar ceiling.

Conduit Schedule:

1. (N) (1) 2"C - Fire Alarm
2. (N) (1) 1"C - Fire Alarm

General Notes:

1. See fire alarm riser diagram for additional requirements.
2. All ceiling heights where visual notification devices are installed are less than 9'-0". See modular sheet N3.0.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT MARK BARTOS No. C-34738 STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building.

Gault Elementary School

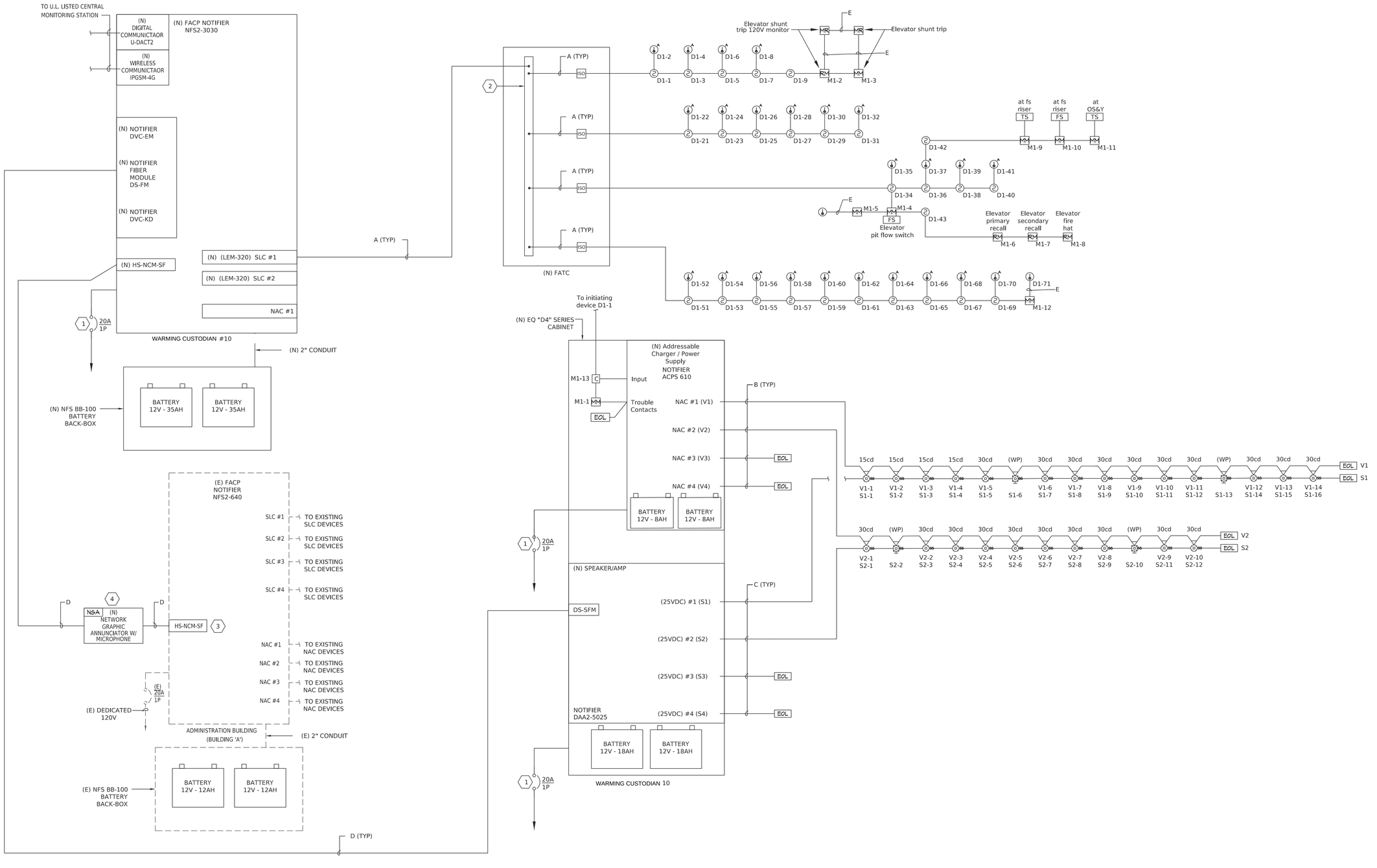
REGISTERED PROFESSIONAL ENGINEER ALBERT S. FERNANDEZ E16890 Exp. 06/30/23 ELECTRICAL STATE OF CALIFORNIA

American Consulting Engineers Electrical, Inc.
1590 The Alameda, Suite 200
San Jose, CA 95126
JOB # EK21004.00
408/236-2312
Fax: 408/236-2316

Fire Alarm Floor Plans

FA2.1

BA 17-005.5



General Notes:

1. There shall be no splicing of Fire Alarm conductor between terminations of Fire Alarm devices, unless specifically noted otherwise. Fire Alarm conductors shall be continuous from device to device. Splices are permitted at the building Fire Alarm terminal can.
2. See Fire Alarm plans for location of Fire Alarm devices/equipment.
3. All cables between buildings shall be indoor/outdoor and underground rated.
4. Contractor to provide (10) spare smoke detectors and (10) spare heat detectors to district.
5. Project inspector shall field verify status of existing batteries. If required, batteries shall be replaced as part of this project scope of work.

Sheet Notes:

1. Provide and install dedicated power connection. Route homerun conduit with (3) #12's to Electrical panel. Provide Electrical panel with new 20A/1P dedicated circuit breaker. Contractor to match type, frame style, and AIC of Electrical panel. Contractor shall provide all necessary hardware for a complete installation. Contractor shall provide circuit breaker lockout to prevent unauthorized tampering.
2. Provide and install new Fire Alarm terminal strip to accommodate new initiating devices shown.
3. Provide new HS-NCM-SF network module in FACP cabinet.
4. Provide new network annuciator with new remote microphone next to the existing FACP NOTIFIER "NFS2-640" at the Admin. building "A".

Cable Schedule:

A - (1) #14 Unshielded twisted pair for Signaling line circuits.
B - (2) #12 for Strobe circuits
C - (1) #12 Shielded twisted pair for Speaker Circuits
D - (1) 6-Strand single mode fiber optic cable OM3 with LC connector
E - (2) #12 thwn-2

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT
MARK RICHARD BARTOS
C-24738
REGISTERED PROFESSIONAL ENGINEER
ANTHONY S. FERNANDEZ
E16890
Exp. 06/30/23
ELECTRICAL
STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building.

Gault Elementary School

American Consulting Engineers Electrical, Inc.
1590 The Alameda, Suite 200
San Jose, CA 95126
JOB # EX21004.00
408/236-2312
Fax: 408/236-2316

Fire Alarm Riser Diagram

FA3.1

BA 17-005.5

(N) FIRE ALARM CONTROL PANEL NFS2-3030 - BATTERY CALCULATION

QUANTITY	MODEL #	DEVICE	SUPV. CURRENT PER	TOTAL SUPV. CURRENT	ALARM ALARM CURRENT	TOTAL ALARM CURRENT
1	CPU-NFS2 3030	FACP CENTRAL PROCESSING UNIT	0.2500	0.2500	0.2500	0.2500
1	LCM-320	LOOP CONTROL MODULE	0.1300	0.1300	0.1300	0.1300
1	DS-SF	FIBER OPTIC MODULE	0.0600	0.0600	0.0600	0.0600
1	DVC-EM	DIGITAL VOICE COMMAND MODULE	0.4400	0.4400	0.0600	0.0600
1	DVC-KD	KEYPAD BOARD	0.0600	0.0600	0.0600	0.0600
1	UDACT-2	DIGITAL COMMUNICATOR	0.0520	0.0520	0.0870	0.0870
1	AMPS-24	POWER SUPPLY	0.1300	0.1300	0.0065	0.0065
		(N) DEVICES INSTALL				
4	ISO-X	FAULT ISOLATOR MODULE	0.0004	0.0016	0.0000	0.0000
27	FSP-851	SMOKE DETECTOR/BASE	0.0003	0.0081	0.0065	0.1755
2	302-ET-135	THEMOTECH HEAT DETECTOR	0.0000	0.0000	1.0000	2.0000
8	FMM-101	MONITOR MODULE	0.0004	0.0028	0.0006	0.0048
4	FRM-1	RELAY MODULE	0.0004	0.0015	0.0005	0.0019
1	FCM-1	CONTROL MODULE	0.0065	0.0065	0.0002	0.0002
26	FST-851H/B210LP	ATTIC HEAT DETECTOR	0.0003	0.0078	0.0065	0.1690
1	FST-851/B210LP	HEAT DETECTOR	0.0003	0.0003	0.0065	0.0065
			Max. Supv. Current	0.9006	Max. Alarm Current	2.76

Maximum Supervisory Current: 0.9006
Standby Period 24 hour: 24
Total Supervisory Reserve: 21.614 (A)

Maximum Alarm Current: 2.76
Alarm Period (15 minute) 0.25
Total Alarm Reserve: 0.69 (B)

Total Reserve Current: (A + B) 22.30
Safety Margin (20%) 1.2
Total Ampere Hours Required: 26.77

(N) Battery: 2- 12V 35 Ampere Hour

(N) DIGITAL AUDIO AMPLIFIER - BATTERY CALCULATION(INSTALL IN INCREMENT 3)

QUANTITY	MODEL #	DEVICE	SUPV. CURRENT PER	TOTAL SUPV. CURRENT	ALARM ALARM CURRENT	TOTAL ALARM CURRENT
1	DAA2-5025	CENTRAL PROCESSING UNIT	0.350	0.350	0.600	0.6000
4	SPSC/WL	CEILING SPEAKER/STROBE 15CD - 0.5 WATT	0.000	0.000	0.032	0.128
20	SPSC/WL	CEILING SPEAKER/STROBE 30CD - 0.5 WATT	0.000	0.000	0.032	0.64
4	SPWK	WEATHERPROOF SPEAKER - 2 WATT	0.000	0.000	0.132	0.528
			Max. Supv. Current		Max. Alarm Current	1.90

Maximum Supervisory Current: 0.35
Standby Period 24 hour: 24
Total Supervisory Reserve: 8.4 (A)

Maximum Alarm Current: 1.90
Alarm Period (15 minute) 0.25
Total Alarm Reserve: 0.47 (B)

Total Reserve Current: (A + B) 8.87
Safety Margin (20%) 1.2
Total Ampere Hours Required: 10.65

(N) Battery: 2- 12V 18 Ampere Hour

(N) DIGITAL AUDIO AMPLIFIER - BATTERY CALCULATION(INSTALL IN INCREMENT 3)

QUANTITY	MODEL #	DEVICE	SUPV. CURRENT PER	TOTAL SUPV. CURRENT	ALARM ALARM CURRENT	TOTAL ALARM CURRENT
1	DAA2-5025	CENTRAL PROCESSING UNIT	0.350	0.350	0.600	0.6000
4	SPSC/WL	CEILING SPEAKER/STROBE 15CD - 0.5 WATT	0.000	0.000	0.032	0.128
20	SPSC/WL	CEILING SPEAKER/STROBE 30CD - 0.5 WATT	0.000	0.000	0.032	0.64
4	SPWK	WEATHERPROOF SPEAKER - 2 WATT	0.000	0.000	0.132	0.528
			Max. Supv. Current		Max. Alarm Current	1.90

Maximum Supervisory Current: 0.35
Standby Period 24 hour: 24
Total Supervisory Reserve: 8.4 (A)

Maximum Alarm Current: 1.90
Alarm Period (15 minute) 0.25
Total Alarm Reserve: 0.47 (B)

Total Reserve Current: (A + B) 8.87
Safety Margin (20%) 1.2
Total Ampere Hours Required: 10.65

(N) Battery: 2- 12V 18 Ampere Hour

LIFIER
ICE

NOTIFICATION CIRCUIT # 1

DEVICE #	DEVICE TYPE	(FT)	AMPS OF DEVICE	TOTAL AMPS @ DEVICE	VOLTAGE DROP @ DEVICE
V1-1	SPEAKER/STROBE 15cd	50	0.041	0.794	0.131
V1-2	SPEAKER/STROBE 15cd	15	0.041	0.753	0.037
V1-3	SPEAKER/STROBE 15cd	15	0.041	0.712	0.035
V1-4	SPEAKER/STROBE 15cd	15	0.041	0.671	0.033
V1-5	SPEAKER/STROBE 30cd	25	0.063	0.630	0.052
V1-6	SPEAKER/STROBE 30cd	25	0.063	0.567	0.047
V1-7	SPEAKER/STROBE 30cd	30	0.063	0.504	0.050
V1-8	SPEAKER/STROBE 30cd	30	0.063	0.441	0.044
V1-9	SPEAKER/STROBE 30cd	30	0.063	0.378	0.038
V1-10	SPEAKER/STROBE 30cd	40	0.063	0.315	0.042
V1-11	SPEAKER/STROBE 30cd	70	0.063	0.252	0.058
V1-12	SPEAKER/STROBE 30cd	40	0.063	0.189	0.025
V1-13	SPEAKER/STROBE 30cd	30	0.063	0.126	0.013
V1-14	SPEAKER/STROBE 30cd	40	0.063	0.063	0.008

WIRE GAUGE 12

TOTAL CIRCUIT AMPS:	0.794
TOTAL VOLTAGE DROP:	0.613
CIRCUIT VOLTAGE:	20.4
% VOLTAGE DROP	3.01%
VOLTAGE @ END OF LINE	19.79
MIN. OPERATIONAL VOLTAGE OF DEVICES	17

NOTIFICATION CIRCUIT # 2

DEVICE #	DEVICE TYPE	(FT)	AMPS OF DEVICE	TOTAL AMPS @ DEVICE	VOLTAGE DROP @ DEVICE
V2-1	SPEAKER/STROBE 30cd	80	0.063	0.630	0.167
V2-2	SPEAKER/STROBE 30cd	20	0.063	0.567	0.038
V2-3	SPEAKER/STROBE 30cd	25	0.063	0.504	0.042
V2-4	SPEAKER/STROBE 30cd	20	0.063	0.441	0.029
V2-5	SPEAKER/STR				
V2-6	SPEAKER/STR				
V2-7	SPEAKER/STR				
V2-8	SPEAKER/STR				

WIRE GAUGE 12

TOTAL CIRCUIT AMPS:	0.630
TOTAL VOLTAGE DROP:	0.375
CIRCUIT VOLTAGE:	20.4
% VOLTAGE DROP	1.84%
VOLTAGE @ END OF LINE	20.02
MIN. OPERATIONAL VOLTAGE OF DEVICES	17

1	CPU-NFS2 3030	FACP CENTRAL PROCESSING UNIT	0.2500	0.2500	0.2500
1	LCM-320	LOOP CONTROL MODULE	0.1300	0.1300	0.1300
1	DS-SF	FIBER OPTIC MODULE	0.0600	0.0600	0.0600
1	DVC-EM	DIGITAL VOICE COMMAND MODULE	0.4400	0.4400	0.0600

		AGENDABLE POWER SUPPLY (DIN
1	ACPS-610	CENTRAL PROCESSING UNIT
4	SPSC/WL	CEILING SPEAKER/STROBE 15CD
18	SPSC/WL	CEILING SPEAKER/STROBE 30CD

Max. Supv. Current 0.8994 Max. Alarm Current 2.74

Maximum Supervisory Current: 0.8994
Standby Period 24 hour: 24
Total Supervisory Reserve: 21.586 (A)

Maximum Alarm Current: 2
Alarm Period (15 minute) (
Total Alarm Reserve: 0

Total Reserve Current: (A + B) 22

Total Reserve Current: (A + B)
Safety Margin (20%)
Total Ampere Hours Required:

(N) Battery: 2- 12V 8 Ampere Hour

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT MARK RICHARD BARTOS No. C-14738 REGISTERED 03-31-23 STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building.
Gault Elementary School

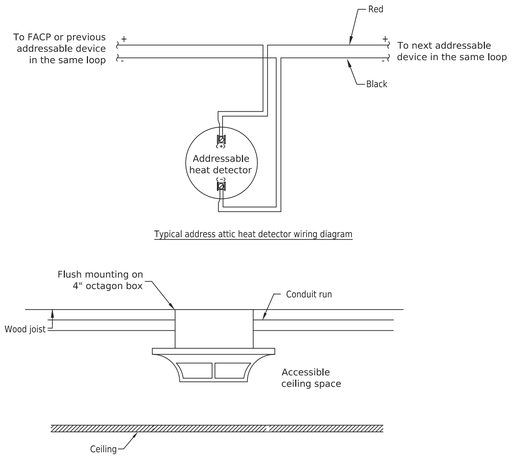
REGISTERED PROFESSIONAL ENGINEER ANTHONY S. FERNANDEZ E16890 Exp. 06/30/23 ELECTRICAL STATE OF CALIFORNIA

American Consulting Engineers Electrical, Inc.
1590 The Alameda, Suite 200
San Jose, CA 95126
JOB # EX21004.00
408/236-2312
Fax: 408/236-2316

Fire Alarm Battery Calculations

FA3.2

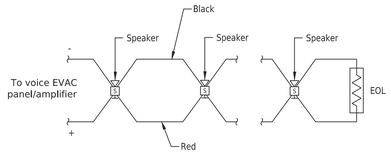
BA 17-005.5



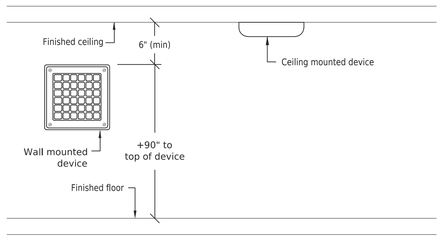
Typical address attic heat detector wiring diagram

1 Adressable Heat Detector Wiring Detail (Above Ceiling)

FA4.1 Scale: Not to scale



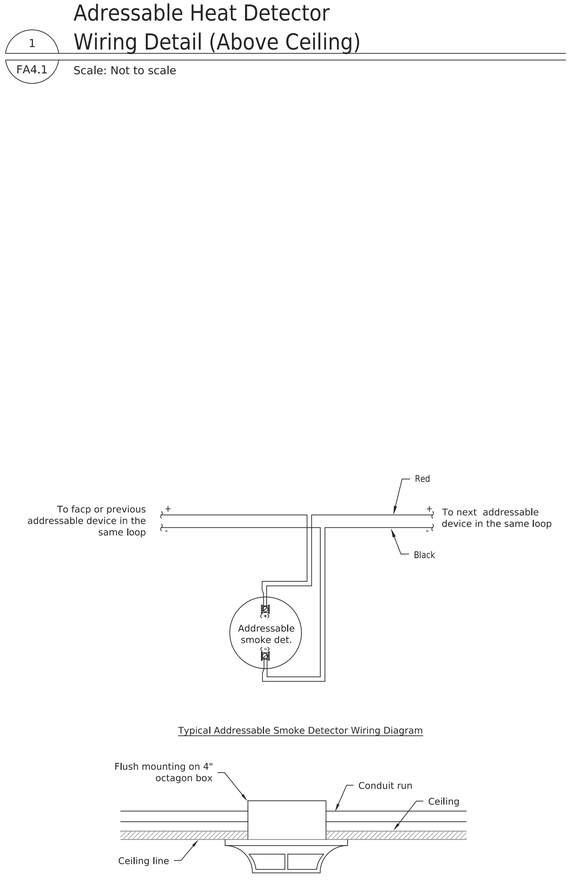
Typical Audible Device Wiring Diagram



Note: Surface mounted speaker shall be provided with the manufacturers recommended round surface mounted back box. Outside back boxes shall be rated for such use.

2 Audible Device Wiring and installation Detail

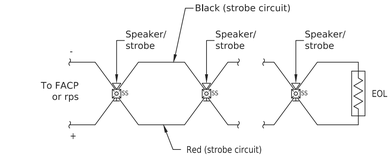
FA4.1 Scale: Not to scale



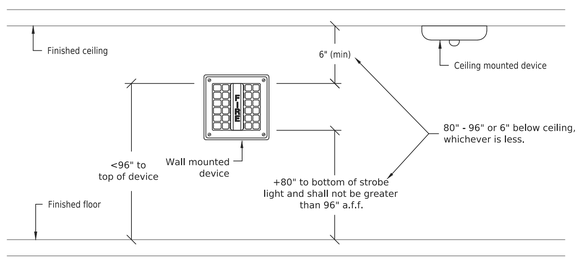
Typical Addressable Smoke Detector Wiring Diagram

3 Smoke Detector Mounting Detail

FA4.1 Scale: Not to scale



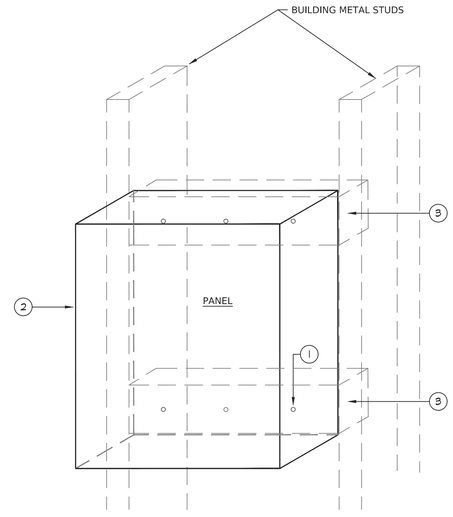
Typical audible/visual device wiring diagram



Note: Surface mounted devices shall be provided with the manufacturers recommended round surface mounted back box.

4 Audible/Visual Device Wiring and Installation Detail

FA4.1 Scale: Not to scale



1. Provide #10 sheet metal screws (6) per panel can.
2. Electrical panel (max weight 200lbs)
3. Solid Backing , refer to detail 17/S9.1

5 Wall-Mounted Panel Installation on Metal Studs Detail (100A - 600A)

FA4.1 Scale: Not to scale

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT MARK BARTOS C-14738 STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building.
Gault Elementary School

REGISTERED PROFESSIONAL ENGINEER GARY S. FERNANDEZ E16890 Exp. 06/30/23 ELECTRICAL STATE OF CALIFORNIA

American Consulting Engineers Electrical, Inc.
1590 The Alameda, Suite 200
San Jose, CA 95126
JOB # EX21004.00
408/236-2312
Fax: 408/236-2316

Fire Alarm Cover Sheet

FA4.1

BA 17-005.5

ACCESSIBILITY NOTES

1. ALL NEW WORK SHALL CONFORM TO TITLE 24 OF THE CALIFORNIA ADMINISTRATIVE CODE AND THE AMERICANS WITH DISABILITIES ACT (ADA).
2. NEW CURB RAMPS SHALL NOT EXCEED A SLOPE OF 1:12 (8.33%).
3. ALL NEW ENTRANCE WALKS TO BUILDINGS SHALL NOT EXCEED A SLOPE OF 1:20 (5%) LONGITUDINALLY UNLESS RAILINGS ARE PROVIDED IN WHICH CASE THE SLOPE SHALL NOT EXCEED 1:12 (8.33%). SEE ARCHITECTURAL OR LANDSCAPE PLANS FOR RAILING REQUIREMENTS IF NOT IN THE SCOPE OF THE CIVIL PLANS.
4. LANDINGS SHALL BE PROVIDED AT BUILDING ENTRANCES DESIGNATED AS ACCESSIBLE WITH A 2% MAXIMUM SLOPE IN ALL DIRECTIONS. CONTRACTOR SHALL VERIFY THAT ALL LANDINGS AT NEW BUILDING ENTRANCES COMPLY WITH CBC 2019 SECTION 11B-404.
5. RAMPS ARE DEFINED AS ANY WALKWAY WITH A LONGITUDINAL SLOPE BETWEEN 1:20 (5%) AND 1:12 (8.33%). RAMPS SHALL HAVE A MINIMUM WIDTH OF 48" AND A MAXIMUM CROSS-SLOPE OF 2%. RAMPS EXCEEDING 30" VERTICAL DROP SHALL HAVE INTERMEDIATE (2% MAXIMUM SLOPE) LANDINGS HAVING A MINIMUM LENGTH IN THE DIRECTION OF TRAVEL OF 60". LANDINGS AT THE BOTTOM OF A RAMP OR CHANGES IN RAMP DIRECTION SHALL HAVE A MINIMUM LENGTH OF 72".
6. MAXIMUM CROSS-SLOPE ON ANY SIDEWALK OR RAMP SHALL BE 2%. MAXIMUM SLOPE IN ANY DIRECTION WITHIN PARKING STALLS DESIGNATED AS ACCESSIBLE PARKING STALLS SHALL BE 2%.
7. ANY CATCHBASINS OR DRAINAGE INLETS LOCATED WITHIN DESIGNATED ACCESSIBLE PATHS OF TRAVEL SHALL BE INSTALLED WITH HEEL PROOF GRATES.
8. CONTRACTOR SHALL ENSURE AND CONSTRUCT ALL IMPROVEMENTS WITH ADA COMPLIANCE. THIS SHALL INCLUDE BUT NOT LIMITED TO PATHWAYS, RAMPS, BUILDING ENTRANCES, ROADWAYS, ETC.

ABBREVIATIONS

AB	AGGREGATE BASE
AGG	AGGREGATE
ARV	AIR-RELEASE VALVE
BFP	BACKFLOW PREVENTER
BO	BLOW-OFF VALVE
BRW	BOTTOM OF RETAINING WALL
BSW	BACK OF SIDEWALK
BVC	BEGIN VERTICAL CURVE
BW	BOTTOM OF WALL
CATV	CABLE TELEVISION
CB	CATCH BASIN
CI	CURB INLET
CIP	CAST IRON PIPE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COMM	COMMERCIAL
CONC	CONCRETE
COTG	CLEANOUT TO GRADE
DIP	DUCTILE IRON PIPE
DOM	DOMESTIC
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
DWY	DRIVEWAY
E	EAST, ELECTRICAL
EG	EXISTING GROUND
EP	EDGE OF PAVEMENT
(E)	EXISTING
EX.	EXISTING
FC	FACE OF CURB
FDC	FIRE DEPARTMENT CONNECTION
FG	FINISH GRADE
FF	FINISH FLOOR
FH	FIRE HYDRANT
FL	FLOWLINE
FNC	FENCE
FO	FIBER OPTIC
FT	FOOT/FEET
FW	FIRE WATER
G	GAS
GB	GRADE BREAK
HT	HEIGHT
HDPE	HIGH-DENSITY POLYETHYLENE
HP	HIGH POINT
INT	INTERSECTION
INV	INVERT
IRR	IRRIGATION
JB	JUNCTION BOX
JT	JOINT TRENCH
LF	LINEAR FOOT
LIP	LIP OF GUTTER
LOG	LIMIT OF GRADING
LP	LOW POINT
MFS	MECHANICAL FILTRATION SYSTEM
MH	MANHOLE
N	NORTH
NE	NORTHEAST
NW	NORTHWEST
OH	OVERHEAD
PCC	PORTLAND CEMENT CONCRETE
PE	POLYETHYLENE
PP	POWER POLE
PL	PROPERTY LINE
PRC	POINT OF REVERSE CURVE
PIV	POST-INDICATOR VALVE
PV	PAVEMENT
PVC	POLYVINYL CHLORIDE PIPE
R	RADIUS
R.C.	RELATIVE COMPACTION
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT-OF-WAY
RPPB	REDUCE PRESSURE PRINICIPLE BACKFLOW
RW	RECYCLED WATER
S	SOUTH, SLOPE
SCWD	SANTA CRUZ WATER DEPARTMENT
SD	STORM DRAIN
SE	SOUTHEAST
SDMH	STORM DRAIN MANHOLE
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
STA	STATION
STD	STANDARD
SW	SIDEWALK, SOUTHWEST
T	TELEPHONE
TC	TOP OF CURB
TH	THRESHOLD
TRAN	TRANSFORMER
TRW	TOP OF RETAINING WALL
TW	TOP OF WALL
USA	UNDERGROUND SERVICE ALERT
VG	VALLEY GUTTER
W	WEST, WATER
WM	WATER METER
WV	WATER VALVE

LEGEND

DESCRIPTION	PROPOSED
AIR RELEASE VALVE	
AREA DRAIN	
BLOW-OFF VALVE	
CATCH BASIN	
CURB INLET	
CLEANOUT STRUCTURE	
FIRE HYDRANT	
GUY ANCHOR	
MANHOLE STRUCTURE	
WATER THRUST BLOCK	
WATER METER	
WATER VALVE	
COMMUNICATION LINE	COMM
ELECTRICAL LINE	E
FIBER OPTIC LINE	FO
FIRE WATER LINE	FW
GAS LINE	G
IRRIGATION LINE	IRR
JOINT TRENCH LINE	JT
OVERHEAD LINE	OH
RECYCLED WATER LINE	RW
STORM DRAIN LINE	SD
SANITARY SEWER LINE	SS
TELEPHONE LINE	T
CABLE TV LINE	TV
WATER LINE	W
FENCE	

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
C0.0	GENERAL NOTES, ABBREVIATIONS, AND LEGEND
C0.1	SPECIFICATIONS AND AGENCY STANDARD NOTES
C1.0	AGENCY STANDARD DETAILS
C1.1	DETAILS
C1.2	DETAILS
C2.0	GRADING AND DRAINAGE PLAN
C3.0	UTILITY PLAN
C4.0	PAVING PLAN
C5.0	EROSION CONTROL NOTES AND DETAILS
C5.1	EROSION CONTROL PLAN

UNDERGROUND FIRE PROTECTION NOTES

1. THE UNDERGROUND FIRE PROTECTION SYSTEM SHOWN ON THESE PLANS IS SCHEMATIC ONLY AND IS NOT INTENDED TO BE AN INSTALLATION DRAWING. THIS DRAWING SHALL NOT BE USED AS A BASE SHEET FOR SHOP DRAWINGS WITHOUT WRITTEN APPROVAL FROM IFLAND ENGINEERS.
2. THE UNDERGROUND FIRE PROTECTION SYSTEM INSTALLER SHALL PREPARE SHOP DRAWINGS SHOWING ALL INFORMATION REQUIRED BY NFPA 13, 24, AND THE LOCAL FIRE MARSHAL. THE SHOP DRAWINGS SHALL ALSO COMPLY WITH ALL OTHER NFPA REQUIREMENTS IN ADDITION TO LOCAL AND STATE REGULATIONS AND CODES.
3. SHOP DRAWINGS SHALL BE SUBMITTED TO DSA FOR REVIEW AND APPROVAL, THE RATING AGENCY, AND THE ARCHITECT.
4. THE UNDERGROUND FIRE PROTECTION SYSTEM INSTALLER SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS PRIOR TO START OF WORK.
5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF COMPLIANCE OF SHOP DRAWINGS TO ALL PLANS AND SPECIFICATIONS IN ADDITION TO CITY OR AGENCY STANDARD DETAILS AND SPECIFICATIONS.
6. GENERAL CONTRACTOR AND UNDERGROUND FIRE PROTECTION SYSTEM INSTALLER IS RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS AND EQUIPMENT LOCATIONS IN ADDITION TO SPACE CONSTRAINTS, REQUIRED PAD AREAS, AND CLEARANCES FROM OTHER UTILITIES, TREES, OR PERMANENT STRUCTURES.
7. PROVISIONS SHALL BE MADE IN THE SHOP DRAWINGS FOR MONITORING ALL VALVES AS REQUIRED BY THE LOCAL FIRE MARSHAL. SHOP DRAWINGS PREPARED BY THE UNDERGROUND FIRE PROTECTION SYSTEM INSTALLER SHALL COORDINATE WITH THE ELECTRICAL DESIGNER FOR INSTALLATION OF ALL ALARM SYSTEMS AS REQUIRED BY THE LOCAL FIRE MARSHAL.
8. CONTRACTOR SHALL OBTAIN A PERMIT FROM THE LOCAL FIRE MARSHAL PRIOR TO INSTALLATION.

UTILITY DEMOLITION NOTES

1. SITE ACCESS AND TEMPORARY CONTROLS: CONDUCT UTILITY DEMOLITION AND DEBRIS REMOVAL OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, WALKWAYS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.
2. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, WALKWAYS, OR OTHER ADJACENT OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM OWNER AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS IF REQUIRED BY AUTHORITIES HAVING JURISDICTION.
3. TEMPORARY PROTECTION: ERECT TEMPORARY PROTECTION, SUCH AS WALKS, FENCES, RAILINGS, CANOPIES, AND COVERED PASSAGEWAYS, WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION AND AS INDICATED.
4. PROTECT EXISTING SITE IMPROVEMENTS, APPURTENANCES, AND LANDSCAPING TO REMAIN.
5. PROVIDE TEMPORARY BARRICADES AND OTHER PROTECTION REQUIRED TO PREVENT INJURY TO PEOPLE.
6. PROVIDE PROTECTION TO ENSURE SAFE PASSAGE OF PEOPLE AROUND DEMOLITION AREA.
7. USE WATER MIST AND OTHER SUITABLE METHODS TO LIMIT SPREAD OF DUST AND DIRT. COMPLY WITH GOVERNING ENVIRONMENTAL-PROTECTION REGULATIONS. DO NOT USE WATER WHEN IT MAY DAMAGE ADJACENT CONSTRUCTION OR CREATE HAZARDOUS OR OBJECTIONABLE CONDITIONS, SUCH AS ICE, FLOODING, AND POLLUTION
8. REMOVE TEMPORARY BARRIERS AND PROTECTIONS WHERE HAZARDS NO LONGER EXIST. WHERE OPEN EXCAVATIONS OR OTHER HAZARDOUS CONDITIONS REMAIN, LEAVE TEMPORARY BARRIERS AND PROTECTIONS IN PLACE.
9. VERIFY THAT UTILITIES HAVE BEEN DISCONNECTED AND CAPPED BEFORE STARTING DEMOLITION OPERATIONS.
10. EXISTING UTILITIES: LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP OFF INDICATED UTILITIES SERVING BUILDINGS AND STRUCTURES TO BE DEMOLISHED. DO NOT START DEMOLITION WORK UNTIL UTILITY DISCONNECTING AND SEALING HAVE BEEN COMPLETED AND VERIFIED IN WRITING.
11. ARRANGE TO SHUT OFF INDICATED UTILITIES WITH UTILITY COMPANIES.
12. IF REMOVAL, RELOCATION, OR ABANDONMENT OF UTILITY SERVICES WILL AFFECT ADJACENT OCCUPIED BUILDINGS, THEN PROVIDE TEMPORARY UTILITIES THAT BYPASS BUILDINGS AND STRUCTURES TO BE DEMOLISHED AND THAT MAINTAIN CONTINUITY OF SERVICE TO OTHER BUILDINGS AND STRUCTURES.
13. DO NOT INTERRUPT EXISTING UTILITIES SERVING ADJACENT OCCUPIED OR OPERATING FACILITIES UNLESS AUTHORIZED IN WRITING BY OWNER AND AUTHORITIES HAVING JURISDICTION.
14. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO OWNER AND AUTHORITIES HAVING JURISDICTION.
15. PROVIDE AT LEAST 72 HOURS' NOTICE TO OCCUPANTS OF AFFECTED BUILDINGS IF SHUTDOWN OF SERVICE IS REQUIRED DURING CHANGEOVER.
16. STRENGTHEN OR ADD NEW SUPPORTS WHEN REQUIRED DURING PROGRESS OF DEMOLITION.
17. GENERAL: DEMOLISH INDICATED UTILITIES ACCORDING TO CIVIL DRAWINGS. USE METHODS REQUIRED TO COMPLETE THE WORK WITHIN LIMITATIONS OF GOVERNING REGULATIONS.
18. DO NOT USE CUTTING TORCHES UNTIL WORK AREA IS CLEARED OF FLAMMABLE MATERIALS. MAINTAIN PORTABLE FIRE-SUPPRESSION DEVICES DURING FLAME-CUTTING OPERATIONS.
19. MAINTAIN FIRE WATCH DURING FLAME CUTTING OPERATIONS AND FOR A PERIOD AFTER CUTTING OPERATIONS ACCORDING TO OWNER'S INSURANCE AND LOCAL FIRE MARSHALL REQUIREMENTS.
20. MAINTAIN ADEQUATE VENTILATION WHEN USING CUTTING TORCHES.
21. EXPLOSIVES: USE OF EXPLOSIVES IS NOT PERMITTED.
22. HAZARDOUS MATERIALS: IT IS NOT EXPECTED THAT HAZARDOUS MATERIALS WILL BE ENCOUNTERED IN THE WORK. IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY NOTIFY ARCHITECT AND OWNER. HAZARDOUS MATERIAL WILL BE REMOVED BY OWNER UNDER A SEPARATE CONTRACT.
23. BELOW-GRADE AREAS: ROUGH GRADE BELOW-GRADE AREAS READY FOR FURTHER EXCAVATION OR NEW CONSTRUCTION. DO NOT DISTURB GRADE BELOW LEVEL OF NEW FOUNDATIONS.
24. ON-SITE STORAGE OR SALE OF REMOVED ITEMS OR MATERIALS IS NOT PERMITTED.
25. UNLESS OTHERWISE INDICATED, DEMOLITION WASTE BECOMES PROPERTY OF CONTRACTOR.
26. REMOVE DEMOLITION WASTE MATERIALS FROM PROJECT SITE AND LEGALLY DISPOSE OF THEM IN AN EPA-APPROVED LANDFILL ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
27. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE.
28. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.
29. DO NOT BURN DEMOLISHED MATERIALS.
30. HISTORIC ITEMS, RELICS, ANTIQUES, AND SIMILAR OBJECTS INCLUDING, BUT NOT LIMITED TO, CORNERSTONES AND THEIR CONTENTS, COMMEMORATIVE PLAQUES AND TABLETS, AND OTHER ITEMS OF INTEREST OR VALUE TO OWNER THAT MAY BE UNCOVERED DURING DEMOLITION REMAIN THE PROPERTY OF OWNER. CAREFULLY SALVAGE IN A MANNER TO PREVENT DAMAGE AND PROMPTLY RETURN TO OWNER.

IFLAND ENGINEERS STANDARD NOTES

1. THE SCHOOL DISTRICT IS RESPONSIBLE FOR HIRING A GEOTECHNICAL ENGINEER FOR COMPACTION TESTING. THE GEOTECHNICAL ENGINEER SHALL VERIFY IN WRITING THAT ALL GRADING AND COMPACTION OPERATIONS HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE PLANS PRIOR TO INSTALLATION OF SITE IMPROVEMENTS.
2. ALL ORGANIC MATERIAL COVERING THE SITE SHALL BE STRIPPED AND STOCKPILED. THE STRIPPINGS SHALL BE USED TO BACKFILL ALL ROUGH GRADED MOUND AREAS OR LANDSCAPE PLANTERS AS APPROVED BY THE LANDSCAPE ARCHITECT, TO WITHIN 0.1' OF GRADES SHOWN. EXCESS STRIPPINGS AND EXCAVATED MATERIALS SHALL BE REMOVED FROM THE SITE BY THE GRADING CONTRACTOR IF EARTHWORK BALANCE CANNOT BE ACHIEVED.
3. COMPACTION TO BE DETERMINED USING THE LATEST EDITION OF ASTM D1557.
4. THE TYPES, LOCATIONS, SIZES, AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE IMPROVEMENT PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. (A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES). HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS. CONTRACTOR TO CONTACT USA AT 811 PRIOR TO START OF WORK.
5. CONTRACTOR TO VERIFY ALL EXISTING INVERT ELEVATIONS FOR STORM DRAIN AND SANITARY SEWER CONSTRUCTION PRIOR TO ANY SITE WORK. ALL WORK FOR STORM AND SANITARY INSTALLATION SHALL BEGIN AT THE DOWNSTREAM CONNECTION POINT. ALLOW FOR ANY NECESSARY ADJUSTMENTS TO BE MADE PRIOR TO THE INSTALLATION OF THE ENTIRE LINE.
6. SHOULD DISCREPANCIES EXIST BETWEEN THE ACTUAL ELEVATIONS AND LOCATIONS OF EXISTING UTILITY CONNECTIONS AND THOSE AS SHOWN ON THESE PLANS, THE CONTRACTOR SHALL NOTIFY IFLAND ENGINEERS BEFORE ADJUSTING THE UTILITY DESIGN.
7. CONTRACTOR SHALL UNCOVER AND EXPOSE ALL EXISTING UTILITY LINES WHERE THEY ARE TO BE CROSSED ABOVE OR BELOW BY THE NEW UTILITY LINE BEING CONSTRUCTED IN ORDER TO VERIFY THE GRADES AND CLEARANCES. IF ASSISTANCE IS REQUIRED, CONTRACTOR SHALL ARRANGE FOR A SURVEY CREW TO VERIFY THE ELEVATIONS AT THE CROSSINGS. PIPE SHALL NOT BE STRUNG NOR TRENCHING COMMENCED UNTIL ALL CROSSINGS HAVE BEEN VERIFIED FOR CLEARANCE.
8. CONTRACTOR SHALL SET HIS STRING OR WIRE THROUGH AT LEAST THREE GRADE STAKES TO VERIFY THE UTILITY GRADES. IF THE STAKES DO NOT PRODUCE A UNIFORM GRADE, NOTIFY THE ENGINEER IMMEDIATELY AND HAVE THE GRADES CHECKED PRIOR TO TRENCHING.
9. ALL UTILITY STRUCTURES TO REMAIN, INCLUDING BUT NOT LIMITED TO MANHOLES, CATCH BASINS, WATER VALVES, FIRE HYDRANTS, TELEPHONE AND ELECTRICAL VAULTS, AND PULL BOXES THAT REMAIN WITHIN AREAS EFFECTED BY THE CONSTRUCTION WORK ON THIS PROJECT SHALL BE ADJUSTED TO GRADE BY THE CONTRACTOR OR THE RESPECTIVE UTILITY COMPANY WHETHER SHOWN ON THESE PLANS OR NOT. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ALL PUBLIC OR PRIVATE UTILITY COMPANIES.
10. STORM DRAIN PIPES DESIGNATED AS "SD" FROM 4" TO 24" IN DIAMETER SHALL BE SDR-35 P.V.C. OR APPROVED ALTERNATIVE, HDPE STORM DRAIN PIPE WITH SMOOTH INTERIOR AND ANNULAR EXTERIOR CORRUGATIONS, MEETING AASHTO M252, TYPE S, AASHTO M294, TYPE S, OR ASTM F2306 SPECIFICATIONS, WITH WATER-TIGHT INTEGRATED BELL JOINTS PER ASTM D3212 OR APPROVED ALTERNATIVE WITH CLASS 1 BACKFILL, OR D.I.P. (DUCTILE IRON PIPE) IF SPECIFIED ON THE PLANS. NO MATERIAL SUBSTITUTION SHALL BE ALLOWED FOR DUCTILE IRON PIPE IF DESIGNATED ON THE PLANS. ANY PIPES LARGER THAN 24" IN DIAMETER SHALL BE CLASS III REINFORCED CONCRETE PIPE (RCP). HDPE AND PVC PIPES SHALL ONLY BE USED IF DESIGNATED ON THE PLANS. NO OTHER PIPE MATERIALS MAY BE USED UNLESS APPROVED BY THE ENGINEER.
11. ALL AREAS TO BE GRADED ACCORDING TO THE GRADES SHOWN ON THESE PLANS. A 1% MINIMUM SLOPE FOR DRAINAGE SHALL BE APPLIED IF NO GRADES ARE SHOWN, SUBJECT TO THE APPROVAL OF THE PROJECT ENGINEER. FLOWLINE OF CURBS AND VALLEY GUTTERS MAY BE GRADED AT LESS THAN 1% IF SLOPES ARE DESIGNATED ON THESE PLANS.
12. CONTRACTOR SHALL GRADE EVENLY BETWEEN SPOT ELEVATIONS.
13. PROPOSED SPOT GRADES (ELEVATIONS) SHOWN HEREON ARE FINISHED PAVEMENT GRADES OR FINISHED SURFACE GRADES, NOT TOP OF CURB GRADES, UNLESS NOTED OTHERWISE.
14. WHEN A GRADING PERMIT IS ISSUED ON THIS PROJECT, THE AGENCY APPROVAL APPLIES ONLY TO GRADING. THE CONTRACTOR IS RESPONSIBLE FOR SECURING ALL OTHER NECESSARY PERMITS TO CONSTRUCT THE PROPOSED SITE WORK.
15. ESTIMATED EARTHWORK QUANTITIES SHOWN WITHIN THIS PLAN SET ARE APPROXIMATE ONLY AND SHOWN FOR THE PURPOSES OF CALCULATING GRADING PERMIT FEES. CONTRACTOR IS RESPONSIBLE FOR VERIFYING INDEPENDENTLY BOTH CUT AND FILL QUANTITIES. IFLAND ENGINEERS ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THESE NUMBERS.
16. ALL GRADING, TRENCHING, SHORING, PAVING, AND CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE O.S.H.A REGULATIONS.
17. CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THE CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONNEL AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR AGREES TO DEFEND, INDEMNIFY, AND HOLD DESIGN PROFESSIONALS AND CITY REPRESENTATIVES HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.
18. WHERE DRIVEWAY APPROACHES ARE TO BE CONSTRUCTED, DRIVEWAY SHALL NOT BE CONSTRUCTED UNTIL THE OFF-SITE IMPROVEMENTS ARE INSTALLED. THE ON-SITE DRIVEWAY SHALL CONFORM TO THE COMPLETED OFF-SITE DRIVEWAY APPROACH.
19. NO CHANGES ON THESE PLANS SHALL BE MADE WITHOUT PRIOR APPROVAL OF IFLAND ENGINEERS AND THE AUTHORITY HAVING JURISDICTION (DSA).
20. THE CONTRACTOR SHALL APPLY WATER TO ALL EXPOSED EARTH SURFACES AT INTERVALS SUFFICIENT TO PREVENT AIRBORNE DUST FROM LEAVING THE PROJECT SITE. ALL EXPOSED EARTH SHALL BE WATERED DOWN AT THE END OF THE WORK DAY.
21. WHILE IN TRANSIT TO AND FROM THE PROJECT SITE, ALL TRUCKS TRANSPORTING FILL MATERIAL SHALL BE COVERED WITH TARPS.
22. IF AT ANY TIME DURING SITE PREPARATION, EXCAVATION, OR OTHER GROUND DISTURBANCE ASSOCIATED WITH THIS DEVELOPMENT, ANY ARTIFACT OR OTHER EVIDENCE OF AN HISTORIC ARCHEOLOGICAL RESOURCE OR A NATIVE AMERICAN CULTURAL SITE IS DISCOVERED, THE RESPONSIBLE PERSONS SHALL IMMEDIATELY CEASE AND DESIST FROM ALL FURTHER SITE EXCAVATION AND NOTIFY THE SHERIFF-CORONER IF THE DISCOVERY CONTAINS HUMAN REMAINS, OR THE PLANNING DIRECTOR IF THE DISCOVERY CONTAINS NO HUMAN REMAINS.
23. THE AUTHORITY HAVING JURISDICTION (DSA) SHALL HAVE THE AUTHORITY TO "STOP WORK" IF THE WORK IS NOT BEING DONE IN ACCORDANCE WITH THE APPROVED PLANS.
24. THE CONTRACTOR SHALL NOTIFY THE AUTHORITY HAVING JURISDICTION (DSA) 24 HOURS PRIOR TO START OF CONSTRUCTION.
25. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO, OR USES OF, THESE PLANS. ALL CHANGES MUST BE IN WRITING AND MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
26. EROSION CONTROL PLANS AND STORM WATER POLLUTION PREVENTION PLANS SHALL BE PERMITTED AND FILED WITH THE APPLICABLE AGENCIES PRIOR TO ANY CONSTRUCTION OR GRADING OPERATIONS.
27. IF A SWPPP IS REQUIRED FOR THE PROJECT, IT SHALL BE KEPT WITHIN THE JOB-SITE OFFICE AT ALL TIMES DURING CONSTRUCTION.
28. CONSTRUCTION REQUEST FOR INFORMATION (RFI) SHALL BE SUBMITTED TO ENGINEER IN WRITING AND ALLOW FOR A MINIMUM OF 3 WORKING DAYS FOR RESPONSE TIME.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT
MARK BARTOS
RENEWAL 08/31/2023
STATE OF CALIFORNIA
C-14735

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building

Gault Elementary School

REVISION	DATE
DELTA 1: DSA BACKCHECK	8/1/22

CONSULTANT
IFLAND ENGINEERS
5300 SOQUEL AVENUE, SUITE 101.
SANTA CRUZ, CA 95062
TEL (831) 426-5313
FAX (831) 426-1763
www.iflandengineers.com

IEI JOB #21006

REGISTERED PROFESSIONAL ENGINEER
MATTHEW J. REGAN
NO. 92173
CIVIL
STATE OF CALIFORNIA

GENERAL NOTES, ABBREVIATIONS, AND LEGEND

C0.0

BA 17-005.5

I:_PROJECTS\2021\21006 BARTA (Gault)\DWGS\2 - CONSTRUCTION_BUILDING PERMIT SET\C0.0-NOTE.dwg 15sep22 12:22:55 PM jlandfond © IFLAND ENGINEERS, INC.

SPECIFICATIONS

ASPHALT PAVEMENT:

1. PAVING ASPHALT TO BE ALL PURPOSE, AGED RESIDUE, STEAM REFINED, PG 64-10 GRADE, IN ACCORDANCE WITH SECTION 92 OF THE CALTRANS STANDARD SPECIFICATIONS.
2. MINERAL AGGREGATE SHALL BE TYPE B MINERAL AGGREGATE AS SPECIFIED IN SECTION 39 OF THE C.D.T. STANDARD SPECIFICATIONS.
3. MAXIMUM AGGREGATE SIZE SHALL BE AS FOLLOWS:

A.C. THICKNESS	MAX. AG.
3/4" TO 1-1/2"	1/2"
2" & 2-1/2"	1/2"
3" & 4"	3/4"

4. LIQUID ASPHALT FOR PRIME COAT SHALL BE GRADE SC-70 IN CONFORMANCE WITH SECTION 93 OF THE C.D.T. STANDARD SPECIFICATIONS.
5. ASPHALTIC EMULSION FOR PAINT BINDER, FOG COAT AND SEAL COAT SHALL BE EMULSIFIED ASPHALT, TYPE SS-1H, CONFORMING TO SECTION 94 OR THE C.D.T. STANDARD SPECIFICATIONS

AGGREGATE BASE:

1. AGGREGATE BASE SHALL CONFORM TO CALTRANS CLASS 2 (R VALUE 78 MINIMUM) AGGREGATE BASE, 3/4" MAXIMUM SIZE, AS SPECIFIED IN SECTION 26OF THE C.D.T. STANDARD SPECIFICATIONS.

SANITARY SEWER PIPE:

1. POLYVINYL CHLORIDE (PVC) PIPES SHALL CONFORM TO ASTM 3034, SDR 26 WITH BELL-AND-SPIGOT TYPE RUBBER GASKET JOINTS. BELLS SHALL BE INTEGRAL WITH PIPE. SPIGOT END PIPE WITH SEPARATE DOUBLE HUB COUPLINGS IS NOT ACCEPTABLE.

STORM DRAIN PIPE:

1. STORM DRAIN PIPE SHALL BE DUCTILE IRON PIPE WITH PUSH-ON ON JOINTS CONFORMING TO THE FOLLOWING STANDARDS:
   PIPE: AWWA C151, FOR PUSH-ON JOINTS
   STANDARD FITTINGS: AWWA C110, DUCTILE OR GRAY IRON, FOR PUSH-ON JOINTS
   COMPACT FITTINGS: AWWA C153, FOR PUSH-ON JOINTS
   GASKETS: AWWA C111, RUBBER OR SHAPE MATCHING PIPE AND FITTINGS

PVC WATER LINES:

1. ALL PVC WATER LINE PIPE SHALL BE SCHEDULE 80, PER ASTM D1785.
2. PVC SCHEDULE 80 SOCKET FITTINGS SHALL CONFORM TO ASTM D2467
3. PVC SCHEDULE 80 THREADED FITTINGS SHALL CONFORM TO ASTM D2464

FLOWABLE FILL:

1. FLOWABLE FILL SHALL BE A CONTROLLED LOW-STRENGTH MATERIAL CONSISTING OF A FLUID MIXTURE OF CEMENT, FLY ASH, AGGREGATE, WATER AND WITH ADMIXTURES AS NECESSARY TO PROVIDE WORKABLE PROPERTIES.
2. PLACEMENT OF FLOWABLE FILL MAY BE BY GROUTING TECHNIQUES IN SEWER PIPES, WATER PIPES, OR OTHER RESTRICTED AREAS, OR AS MASS PLACEMENT BY CHUTES OR TREMIE METHODS IN UNRESTRICTED LOCATIONS WITH OPEN ACCESS.

CITY OF SANTA CRUZ WATER DEPARTMENT NOTES

1. ALL WORK ON THE WATER SYSTEM MUST BE CONSTRUCTED IN CONFORMANCE WITH THE LATEST VERSION OF CITY OF SANTA CRUZ WATER DEPT (SCWD) STANDARD SPECIFICATIONS.
2. A MINIMUM OF 2 WORKING DAYS NOTICE SHALL BE GIVEN TO THE SCWD BEFORE CONSTRUCTION ON ANY PORTION OF THE WATER SYSTEM. OBTAIN ALL APPLICABLE WATER SYSTEM PERMITS AT THE SCWD. CALL 831-420-5210 FOR INFORMATION AND TO SCHEDULE WATER SERVICE, FIRE HYDRANT AND BACKFLOW ASSEMBLY INSPECTIONS.
3. MINIMUM SEPARATIONS FROM OTHER PARALLEL AND CROSSING UTILITIES MUST BE MAINTAINED PER CURRENT STANDARD TECHNICAL SPECIFICATIONS.
4. UTILITY LOCATIONS ARE APPROXIMATE. VERIFICATION OF ACTUAL UTILITIES AND LOCATIONS IS THE RESPONSIBILITY OF THE CONTRACTOR CALL UNDERGROUND SERVICE ALERT AT LEAST TWO WORKING DAYS BEFORE DIGGING AT 800-227-2600.
5. CONTRACTOR SHALL PROVIDE A MINIMUM OF TWO WORKING DAYS NOTICE TO SCWD FOR INSPECTION OF SERVICES THAT ARE TO BE RETIRED, MODIFIED OR RELOCATED. CONTRACTOR SHALL EXPOSE CORPORATION STOPS FOR SCWD STAFF TO OPERATE. AN ACTIVE WATER METER MAY BE RELOCATED UP TO 8' HORIZONTALLY USING THE PIPE FREEZE METHOD OR BY TEMPORARILY CLOSING THE CORPORATION STOP RETIRED METER BOXES ARE TO BE REMOVED BY CONTRACTOR AND ALL SIDEWALK AND PAVING RESTORED. SERVICE LINES SHALL NOT BE CRIMPED AS A METHOD OF RETIREMENT OR SERVICE LINE MODIFICATION OR RELOCATION.
6. APPROVAL BY THE SCWD FOR THE FIRE SERVICE INSTALLATION SHALL BE FOR THE SERVICE LINE LOCATION AND THE CONNECTION TO THE CITY WATER SYSTEM. THE FIRE SERVICE SIZE AND DESIGN APPROVAL ARE THE RESPONSIBILITY OF THE LOCAL FIRE PROTECTION AGENCY.
7. TEMPORARY REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY INSTALLATION(S) PER SCWD STANDARDS ARE REQUIRED FOR ALL CONSTRUCTION WATER USE.

CITY OF SANTA CRUZ SANITATION DEPARTMENT NOTES

1. ALL CONSTRUCTION SHALL COMPLY WITH APPLICABLE REQUIREMENTS IN THE CURRENT EDITION OF THE CITY OF SANTA CRUZ STANDARD PLANS AND SPECIFICATIONS.
2. ALL FIGURE (FIG.) REFERENCES, UNLESS OTHERWISE SPECIFIED, REFER TO STANDARD DRAWINGS IN THE CURRENT EDITION OF THE CITY OF SANTA CRUZ STANDARD PLANS AND SPECIFICATIONS..
3. NO CHANGES IN THE APPROVED IMPROVEMENT PLANS SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE DEPARTMENT OF PUBLIC WORKS.
4. THE DIRECTOR OF PUBLIC WORKS OR HIS AUTHORIZED REPRESENTATIVE SHALL HAVE THE AUTHORITY TO "STOP WORK" IF THE WORK IS NOT BEING DONE IN ACCORDANCE WITH THE APPROVED IMPROVEMENT PLANS.
5. THE CONTRACTOR SHALL NOTIFY THE CITY CONSTRUCTION ENGINEER 24 HOURS PRIOR TO START OF CONSTRUCTION.
6. THE CONTRACTOR SHALL NOTIFY THE SANITATION INSPECTOR BEFORE 9:00 A.M. AT LEAST 24 HOURS PRIOR TO THE CONNECTION OF ANY BUILDING SEWER TO THE SEWER LATERAL, OR TO THE ABANDONMENT THEREOF (IN THE CASE OF ABANDONMENTS, NO DEMOLITION PERMITS WILL BE ISSUED UNTIL SAID SEWER LINE HAS BEEN ABANDONED).
7. INSULATED COPPER WIRE (NO. 10) SHALL BE PLACED ALONG TOP OF ALL GRAVITY AND FORCE MAINS. THE WIRE SHALL RUN BETWEEN MANHOLES, CLEANOUTS, OR OTHER APPROPRIATE FACILITIES, BROUGHT TO THE SURFACE AND BOLTED OR OTHERWISE SECURELY AFFIXED TO THE MANHOLE OR CLEANOUT COVER OR OTHER APPROPRIATE METAL STRUCTURE.
8. FOLLOWING THE SUCCESSFUL COMPLETION OF CLEANING AND TESTING, ALL SANITARY SEWER MAINS WHICH ARE TO BE CITY-MAINTAINED, OR PRIVATE LINES AT THE DISCRETION OF THE PUBLIC WORKS INSPECTOR, SHALL FIRST BE FLUSHED, THEN VIDEO-RECORDED AT THE DEVELOPER'S EXPENSE ON DVD IN A MICROSOFT WINDOWS MEDIA PLAYER COMPATIBLE FORMAT. SAID VIDEO-RECORDING AND ACCOMPANYING REPORT SHALL BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE ACCEPTANCE OF THE PROJECT AND ANY ASSOCIATED SIGN_OFFS FOR BUILDING OCCUPANCY.
9. BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED ON ALL LATERALS WHERE THE FINISHED FLOOR ELEVATION IS LESS THAN ONE FOOT ABOVE THE RIM ELEVATION OF THE NEAREST UPSTREAM MANHOLE OR CLEANOUT. THE VALVES SHALL BE LOCATED IN SUCH A WAY AS TO PREVENT ANY DAMAGE TO ADJACENT PROPERTY AS A RESULT OF SEWAGE RELEASED FROM THE DEVICE.
10. UNDERGROUND UTILITY LOCATIONS SHOWN ARE COMPILED FROM INFORMATION SUPPLIED BY THE APPROPRIATE UTILITY AGENCY. CONTRACTOR SHALL VERIFY LOCATION OF AFFECTED UTILITY LINES AND POTHOLE THOSE AREAS WHERE POTENTIAL CONFLICTS ARE LIKELY OR DATA IS OTHERWISE INCOMPLETE.
11. ANY EXISTING UTILITIES THAT ARE REQUIRED TO BE RELOCATED AS A PART OF THIS CONSTRUCTION SHALL BE RELOCATED AT THE DEVELOPER'S EXPENSE.
12. WATER SERVICE FOR THE SITE SHALL BE INSTALLED BY THE CONTRACTOR ACCORDING TO CITY OF SANTA CRUZ WATER DEPARTMENT REQUIREMENTS PER DETAILS BY ENGINEER.

I:_PROJECTS\2021\21006 BARTA (Gault)\DWGS\2 - CONSTRUCTION_BUILDING PERMIT SET\C0.1-NOTE.dwg 15Jul22 02:42:30 PM mregan ©IFLAND ENGINEERS, INC.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT
MARK BARTOS
LICENSE NO. C-31737
STATE OF CALIFORNIA

Santa Cruz
City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building

Gault Elementary School

REVISION	DATE
DELTA 1: DSA BACKCHECK	8/1/22

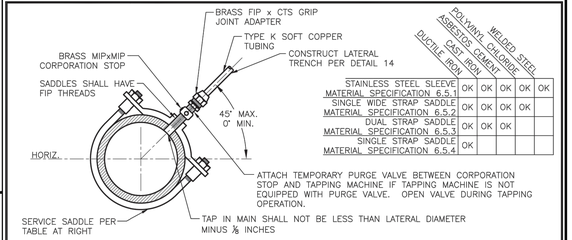
CONSULTANT
IFLAND ENGINEERS
5300 SOQUEL AVENUE, SUITE 101,
SANTA CRUZ, CA 95062
TEL (831) 426-5313
FAX (831) 426-1763
www.iflandengineers.com

IEI JOB #21006

REGISTERED PROFESSIONAL ENGINEER
MATTHEW J. REGAN
NO. 92173
CIVIL
STATE OF CALIFORNIA

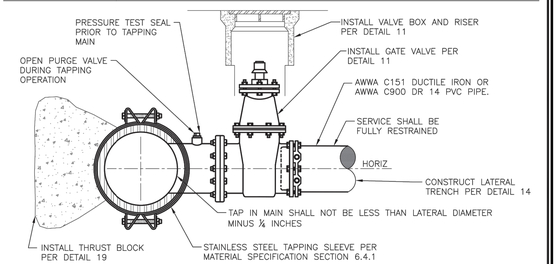
SPECIFICATIONS AND AGENCY STANDARD NOTES

C0.1



	POLYVINYL CHLORIDE	WELDED STEEL	ASBESTOS CEMENT	CAST IRON	DUCTILE IRON
STAINLESS STEEL SLEEVE MATERIAL SPECIFICATION 6.5.1	OK	OK	OK	OK	OK
SINGLE WIDE STRAP SADDLE MATERIAL SPECIFICATION 6.5.2	OK	OK	OK	OK	
DUAL STRAP SADDLE MATERIAL SPECIFICATION 6.5.3	OK	OK	OK		
SINGLE STRAP SADDLE MATERIAL SPECIFICATION 6.5.4	OK				

SMALLER THAN 4"

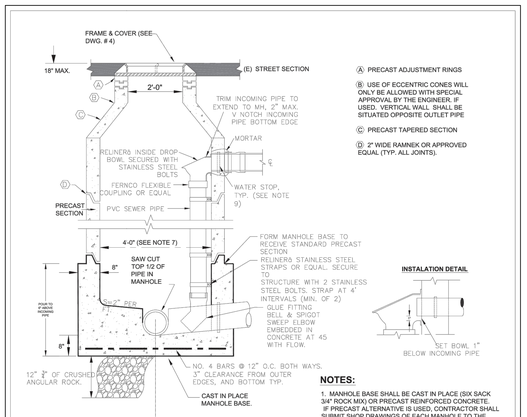


4" AND LARGER

NOTES

1. ALL HOT TAP CONNECTIONS SHALL BE MADE IN THE PRESENCE OF THE ENGINEER.
2. ALL HOT TAP CONNECTIONS SHALL BE AT LEAST 24" AWAY FROM ANY JOINT OR FITTING AND 18" AWAY FROM ANY OTHER TAP.
3. CONTRACTOR SHALL OPEN PURGE VALVE DURING TAPPING OPERATION.
4. SERVICE PIPING AND FITTING DIAMETERS SHALL MEET OR EXCEED THE SERVICE SIZE DESIGNATED BY THE ENGINEER.
5. TAPPING BIT SHALL BE OF THE HOLE-SAW OR SHELL TYPE.
6. COUPON OR "COOKIE" SHALL BE SUBMITTED TO THE ENGINEER UPON REQUEST.
7. IF COUPON IS LOST, CONTRACTOR SHALL FULLY OPEN SERVICE IN THE PRESENCE OF THE ENGINEER TO VERIFY FLOW.
8. CONTRACTOR SHALL COAT TAPPING SADDLE, ALL FASTENERS AND SERVICE LINE WITH BITUMASTIC AND/OR ENCASE IN POLYETHYLENE IF DIRECTED BY THE ENGINEER.
9. CONNECTIONS TO MAINS SMALLER THAN 4" SHALL BE SPECIFIED ON A CASE BY CASE BASIS.
10. SERVICE SHALL BE DISINFECTED IF REQUIRED BY THE ENGINEER.

CITY OF SANTA CRUZ
WATER DEPARTMENT
CITY OF SANTA CRUZ, CALIFORNIA
DETAIL 1
SERVICE CONNECTION
NOT TO SCALE
APPROVED: _____ RCE 37391

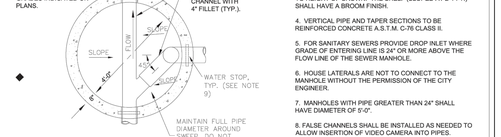


Ⓐ PRECAST ADJUSTMENT RINGS

Ⓑ USE OF ECCENTRIC CONES WILL ONLY BE ALLOWED WITH SPECIAL APPROVAL BY THE ENGINEER. IF USED, VERTICAL WALL SHALL BE SITUATED OPPOSITE OUTLET PIPE

Ⓒ PRECAST TAPERED SECTION

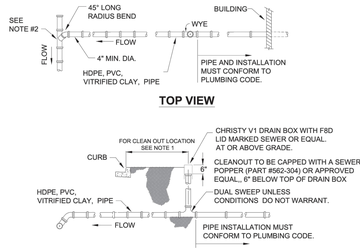
Ⓓ 2" WIDE RAMNEK OR APPROVED EQUAL (TYP. ALL JOINTS).



NOTES:

1. MANHOLE BASE SHALL BE CAST IN PLACE (SIX SACK 3/4" ROCK MIX) OR PRECAST REINFORCED CONCRETE. IF PRECAST ALTERNATIVE IS USED, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF EACH MANHOLE TO THE ENGINEER FOR APPROVAL.
2. MANHOLE BASES SHALL BE CAST OR PLACED AGAINST 12" OF CRUSHED STONE.
3. SHELF SHALL BE VERTICAL FROM PIPE SPRINGLINE TO HEIGHT OF CROWN. THE SHELF (SLOPED AT 2" / FT.) SHALL HAVE A BROOM FINISH.
4. VERTICAL PIPE AND TAPER SECTIONS TO BE REINFORCED CONCRETE A.S.T.M. C-76 CLASS II.
5. FOR SANITARY SEWERS PROVIDE DROP INLET WHERE GRADE OF ENTERING LINE IS 24" OR MORE ABOVE THE FLOW LINE OF THE SEWER MANHOLE.
6. HOUSE LATERALS ARE NOT TO CONNECT TO THE MANHOLE WITHOUT THE PERMISSION OF THE CITY ENGINEER.
7. MANHOLES WITH PIPE GREATER THAN 24" SHALL HAVE DIAMETER OF 5'-0".
8. FALSE CHANNELS SHALL BE INSTALLED AS NEEDED TO ALLOW INSERTION OF VIDEO CAMERA INTO PIPES.
9. PRESS-SEAL GASKET CORPORATION, WS SERIES WATERSTOP GROUTING RINGS OR APPROVED EQUAL TO BE INSTALLED.

CITY OF SANTA CRUZ
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
STANDARD MANHOLE
CITY ENGINEER: _____
DATE: FEBRUARY 2011
SCALE: NONE
DWG NO. 3 OF 20



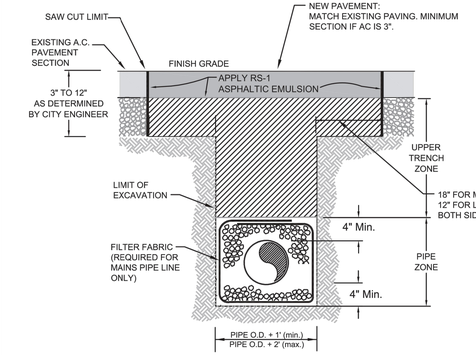
TOP VIEW

SIDE VIEW

NOTES:

1. LOCATE CLEANOUT BOX IN SIDEWALK OR DRIVEWAY. IF THERE IS NO SIDEWALK LOCATE CLEANOUT 10" TO 12" BEHIND FACE OF CURB. IF LOCATED IN A DRIVEWAY, BOX SHALL HAVE A TRAFFIC RATED LID.
2. LATERAL CONNECTIONS:
   A) **LATERAL CONNECTION TO 6" MAIN PIPELINE** : REPLACE A PORTION OF MAIN WITH A MANUFACTURED WYE.
   B) **LATERAL CONNECTION TO 8" AND 10" MAIN PIPELINE:** CORE DRILL AND USE A ROMAC "CB" SEWER SADDLE OR USE A NDS FLEXIBLE SADDLE WHEN RECONNECTING AT EXISTING LATERAL CONNECTION LOCATION.
   D) **LATERAL CONNECTION TO 12" AND LARGER MAIN PIPELINE** , WITH APPROVAL BY THE PUBLIC WORKS INSPECTOR,THE CONTRACTOR SHALL CORE DRILL AND USE INSERTA TEE INSTALLED BY CERTIFIED *INSERTA TEE*™INSTALLER.
3. ANY PIPE REPAIR COUPLING SHALL BE *FERNCO* SHEER BAND WITH 24 GAUGE STAINLESS STEEL BANDS AND SHEAR BAND OR APPROVED EQUAL.
4. PIPE SHALL BE:
   A) HDPE - SOLID WALL SDR 26, OR
   B) PVC SDR 26 GASKET SEWER PIPE ASTM 3034, OR
   C) VITRIFIED CLAY SEWER PIPE ASTM C 700, WITH COMPRESSION JOINT ASTM C 425
5. PROVIDE THREE FEET OF COVER UNLESS PROPER SLOPE TO SEWER MAIN DICTATES LESS COVER.
6. IF CONNECTION TO MAIN PIPELINE IS GREATER THAN 8 FEET DEEP USE A CHIMNEY CONNECTION FULLY SUPPORTED WITH A 2-SACK SLURRY.
7. SLOPE SHALL NOT BE LESS THAN ¼" PER FOOT.
8. A MINIMUM OF 2" OF BEDDING SHALL BE PROVIDED. FOLLOW CITY TYPICAL PIPE TRENCH DETAIL.
9. IF THE RIM OF ANY FIXTURE (IN THE BUILDING) IS BELOW THE ELEVATION OF THE NEXT UPSTREAM SEWER MANHOLE COVER, THEN A BACKWATER VALVE IS REQUIRED. VALVE SHALL BE LOCATED BETWEEN THE BUILDING AND CLEANOUT. USE *CLEAN CHECK* BACK FLOW PREVENTION DEVICE OR APPROVED EQUAL.
10. ALL PIPES REHABILITATED WITH THE LINING PROCESS SHALL BE TELEVISED TO SHOW THE FULL LENGTH OF LINING AND THE CONNECTION AT THE MAIN. INSPECTION SHALL BE PERFORMED WHILE THE PUBLIC WORKS INSPECTOR IS ON SITE, OR A TAPE OR DVD SHALL BE PROVIDED TO THE INSPECTOR FOR REVIEW.

CITY OF SANTA CRUZ
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
SEWER LATERAL
CITY ENGINEER: _____
DATE: AUGUST 2009
SCALE: NONE
DWG NO. 2 OF 20



NOTES:

THIS DETAIL APPLIES TO ALL EXCAVATIONS IN CITY STREETS OR SIDEWALKS.

1. PIPE ZONE BACK FILL SHALL BE:

A. ¾" CRUSHED OR ANGULAR ROCK WITH 100% PASSING 1", 90-100% PASSING 3/4", 0-30% PASSING NO. 4 SIEVE, AND 0-10% PASSING NO. 8 SIEVE.

B. ROCK SHALL BE ENVELOPED WITH FILTER FABRIC FOR MAIN PIPE ONLY.

2. UPPER TRENCH MATERIAL SHALL BE:

A. CLSM (2 SACK CEMENT SAND SLURRY); *OR*

B. CLASS 2 AGGREGATE BASE PER CALTRANS SPECIFICATIONS.

IF AGGREGATE BASE IS USED THE UPPER 2' SHALL BE COMPACTED TO 95% RELATIVE COMPACTION. REMAINING MATERIAL SHALL BE COMPACTED TO 90%. A CIVIL ENGINEER HIRED BY THE CONTRACTOR MUST CERTIFY THAT COMPACTION REQUIREMENTS ARE MET.

3. SHOVEL-SLICE PIPE BEDDING UNDER THE HAUNCHES OF THE PIPE.

4. ALL TRAFFIC STRIPPING MUST BE REINSTALLED PER CALTRANS STANDARDS.

CITY OF SANTA CRUZ
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
SEWER PIPE TRENCH DETAIL
CITY ENGINEER: _____
DATE: MARCH 2011
SCALE: NONE
DWG NO. 1 OF 20

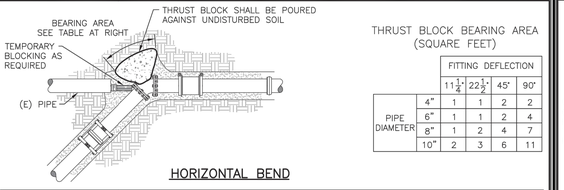
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT MARK BARTOS No. C-34138 REGISTERED 12-31-23 STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

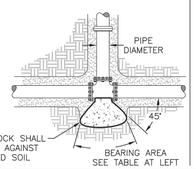


HORIZONTAL BEND

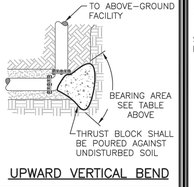
PIPE DIAMETER	FITTING DEFLECTION 11¼°	22½°	45°	90°
4"	1	1	2	2
6"	1	1	2	4
8"	1	2	4	7
10"	2	3	6	11

THRUST BLOCK BEARING AREA (SQUARE FEET)

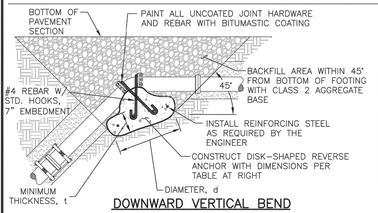
PIPE DIAMETER	BEARING AREA (SQUARE FEET)
4"	2
6"	3
8"	5
10"	8



TEE



UPWARD VERTICAL BEND



DOWNWARD VERTICAL BEND

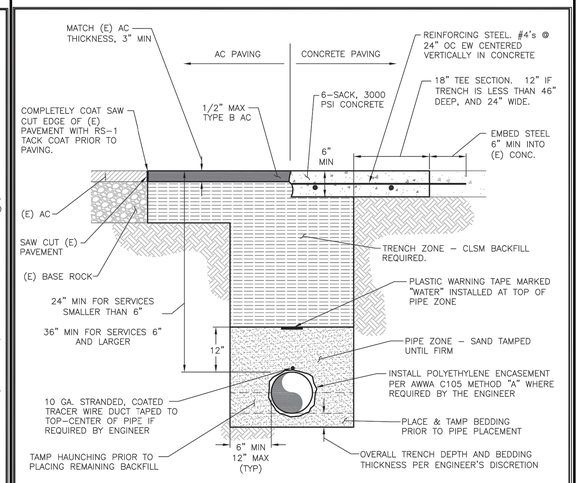
MINIMUM REVERSE ANCHOR DIMENSIONS (FEET)

PIPE DIAMETER	d / t	FITTING DEFLECTION 22½°	45°
6"		2 / 0.5	3 / 0.5
8"		3 / 0.5	4 / 0.8
10"		3 / 0.5	5.5 / 2

NOTES

1. CONCRETE THRUST BLOCKS SHALL BE INSTALLED WHEN INDICATED BY THE CONTRACT DOCUMENTS OR AT THE DISCRETION OF THE ENGINEER.
2. THRUST BLOCKING IS REQUIRED WHERE IT IS UNKNOWN IF PIPE IS RESTRAINED, SUCH AS AT A CONNECTION TO EXISTING PIPE.
3. ALL CONCRETE SHALL BE 3000 PSI MINIMUM 28 DAYS COMPRESSIVE STRENGTH.
4. FOR PIPELINES LARGER THAN 10" IN DIAMETER, PIPELINES INSTALLED AT DEPTHS LESS THAN 36 INCHES, OR IN POOR SOILS, THRUST BLOCK DESIGN SHALL BE APPROVED BY THE ENGINEER ON A CASE BY CASE BASIS.

CITY OF SANTA CRUZ
WATER DEPARTMENT
CITY OF SANTA CRUZ, CALIFORNIA
DETAIL 19
THRUST BLOCK INSTALLATION
NOT TO SCALE
APPROVED: _____ RCE 37391

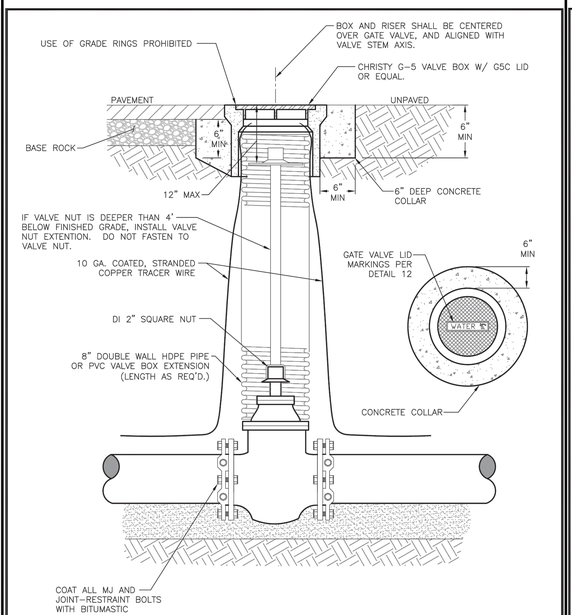


STANDARD SERVICE LATERAL TRENCH

NOTES

1. IF ANY PORTION OF (E) PAVEMENT WITHIN SAWCUT LIMITS IS CONCRETE AT THE SURFACE, ENTIRE TRENCH SHALL BE RE-PAVED WITH CONCRETE AS SHOWN.
2. WHERE WATER SERVICES 6" AND LARGER CANNOT MEET MINIMUM COVER REQUIREMENTS, THE ENGINEER MAY APPROVE ALTERNATE INSTALLATION PER DETAIL 16.
3. ALL JOINTS ON SERVICE LATERALS SHALL BE RESTRAINED.

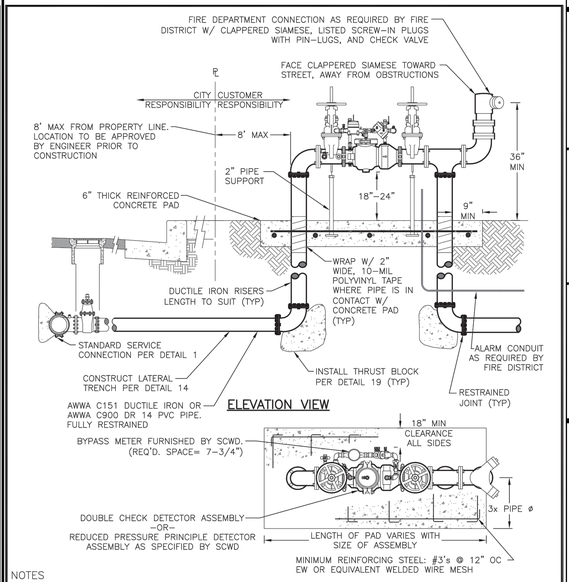
CITY OF SANTA CRUZ
WATER DEPARTMENT
CITY OF SANTA CRUZ, CALIFORNIA
DETAIL 14
STANDARD SERVICE LATERAL TRENCH
NOT TO SCALE
APPROVED: _____ RCE 37391



NOTES

1. VALVE BOX LID SHALL BE OILED PRIOR TO PAVING OR CLEANING TO ENSURE THAT LID MARKINGS ARE LEGIBLE.
2. INSTALL VALVE BOX LID FLUSH WITH FINAL PAVING OR GROUND SURFACE.
3. INSTALL BLOCKING UNDER VALVE IF REQUIRED.

CITY OF SANTA CRUZ
WATER DEPARTMENT
CITY OF SANTA CRUZ, CALIFORNIA
DETAIL 11
GATE VALVE INSTALLATION
NOT TO SCALE
APPROVED: _____ RCE 37391



ELEVATION VIEW

PLAN VIEW

NOTES

1. REFER TO PROJECT CIVIL PLAN FOR REQUIRED TYPE OF DEVICE OR CALL SCWD AT (831) 420-5210 FOR SPECIFIED TYPE PRIOR TO INSTALLATION.
2. O.S. AND Y. VALVES SHALL BE EQUIPPED WITH TAMPER PROOF ALARM DEVICES. VALVES ARE TO BE CHAINED TOGETHER IN THE OPEN POSITION WITH A BREAK-AWAY CHAIN OR AS REQUIRED BY FIRE DISTRICT.
3. ASSEMBLY TO BE PAINTED RED OR OTHER COLOR AS SPECIFIED BY FIRE DISTRICT.
4. DEVICE MUST BE INSTALLED SO THAT IT IS READILY ACCESSIBLE FOR TESTING AND MAINTENANCE. LOCATIONS MUST BE APPROVED BY SCWD PRIOR TO INSTALLATION.
5. INSTALL TRAFFIC BOLLARD(S) PER DETAIL 20 IF REQUIRED BY ENGINEER
6. BRASS OR PLASTIC PLUGS SHALL BE INSTALLED ON ALL TEST PORTS.

CITY OF SANTA CRUZ
WATER DEPARTMENT
CITY OF SANTA CRUZ, CALIFORNIA
DETAIL 9
STANDARD 4-INCH AND LARGER FIRE SERVICE INSTALLATION
NOT TO SCALE
APPROVED: _____ RCE 37391

New Modular Classroom Building

Gault Elementary School

REVISION	DATE
DELTA 1: DSA BACKCHECK	8/1/22

CONSULTANT

IFLAND ENGINEERS
5300 SOQUEL AVENUE, SUITE 101,
SANTA CRUZ, CA 95062
TEL (831)-426-5313
FAX (831)-426-1763
www.ifandengineers.com

IEI JOB #21006

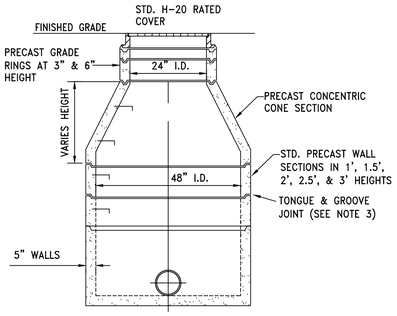
AGENCY STANDARD DETAILS

C1.0

BA 17-005.5

NOTE: THE STANDARD DETAILS ON THIS PAGE APPLY TO OFF-SITE WORK ONLY WITHIN CITY RIGHT-OF-WAY. THESE DETAILS ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER DOES NOT ACCEPT RESPONSIBILITY FOR THE CURRENCY OF THE DATA CONTAINED ON SAID DETAILS AND ENCOURAGES THE CONTRACTOR TO OBTAIN CURRENT COPIES FOR USE ON THE PROJECT. SHOULD ANY DISCREPANCIES BECOME EVIDENT BETWEEN THESE PLANS AND THE CURRENT DETAIL, THE ENGINEER SHALL BE CONSULTED PRIOR TO CONSTRUCTION.

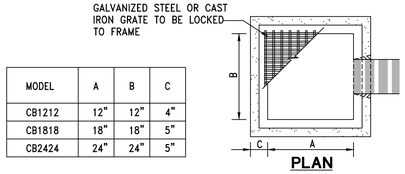
I:_PROJECTS\2021\21096 BARTA (Gault)\DWGS\2 - CONSTRUCTION_BUILDING PERMIT SET\C1.0-DETL.dwg 15Jul22 02:42:36 PM mregan ©IFLAND ENGINEERS, INC.



NOTES:
1. PRECAST MANHOLE TO CONFORM TO ASTM C-478.
2. INSTALL 12" O.C. & 3/4" DIA. POLYPROPYLENE ENCASED STEEL REINFORCED STEPS OR GALVANIZED IRON STEPS
3. ALL JOINTS SHALL BE GROUTED WITH 1:3 MORTAR MIX OR SEALED WITH JOINT COMPOUND.
4. VARIES HEIGHT: 15", 18", 24", 30", 36", 42" & 48".

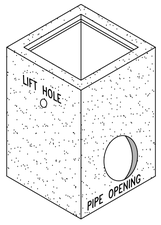
CONCENTRIC MANHOLE
NTS

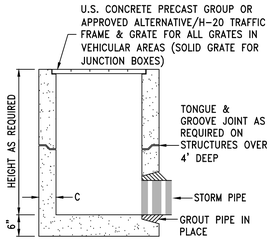
4



MODEL	A	B	C
CB1212	12"	12"	4"
CB1818	18"	18"	5"
CB2424	24"	24"	5"

PLAN

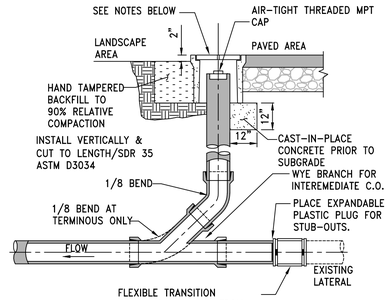




NOTES:
1. ALL GRATES WITHIN DRIVE AISLES AND WALKWAYS SHALL BE HEEL PROOF ACCESSIBLE AND RATED FOR H-20 HEAVY TRAFFIC LOADING.

CATCH BASIN
NTS

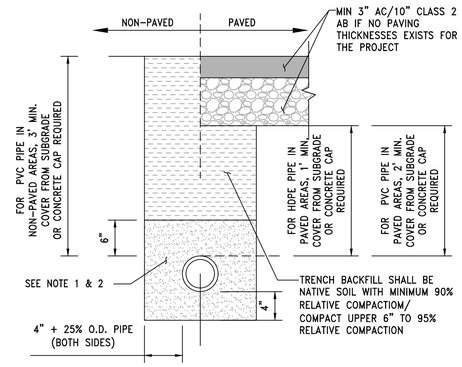
3



NOTES:
1. RECTANGULAR OR CIRCULAR BOXES ARE PERMITTED.
2. BOXES INSTALLED IN SIDEWALK AREAS SHALL HAVE SOLID COVERS WITHOUT HOLES.
3. APPROVED RECTANGULAR BOXES:
   a. CHRISTY B3 BOX WITH B3C OR B3D LID.
   b. BROOKS NO.3 BOX WITH NO. 3 LID.
4. CONCRETE/FIBERLYTE LIDS ARE ACCEPTABLE IN NON-VEHICULAR AREAS. H-20 CAST IRON TRAFFIC LIDS AND BOXES IN VEHICULAR AREAS.
5. ALL CLEANOUT LIDS SHALL BE MARKED WITH AN "S" OR THE WORD "SEWER".
6. CLEANOUT PIPE SHALL BE THE SAME DIAMETER AS THE CONNECTED SITE PIPE.
7. TERMINATE C.O. AT CLOSEST JOINT TO SURFACE WITH TEMPORARY PLUG. AFTER ALL BACKFILL IS COMPLETE AND SUB-GRADE MADE IN AREAS TO BE PAVED, THE FINAL RISER PIPE AND BOX SHALL BE INSTALLED AS SHOWN.
8. INSTALL #8 COPPER TRACER WIDE FROM MAIN TO CLEANOUT. EXTEND WIRE UP RISER AND COIL TWO FEET INSIDE BOX.

CLEANOUT TO GRADE
NTS

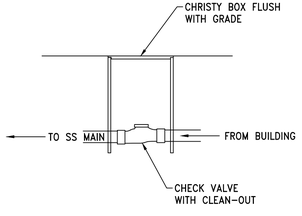
2



NOTES:
1. TRENCH BEDDING AND SHADING MATERIAL SHALL BE 3/8" DIAMETER OR GREATER CRUSHED ROCK OR WELL GRADED SAND & GRAVEL MATERIALS CONFORMING TO THE PIPE MANUFACTURER'S REQUIREMENTS. IF A SOILS REPORT DIFFERS FROM ABOVE, THE SOILS REPORT SHALL GOVERN.
2. USE 90% RELATIVE COMPACTION IF NO SOILS REPORT EXISTS. IF SOILS REPORT EXISTS, COMPACTION REQUIREMENTS IN THE REPORT SHALL GOVERN OVER THIS DETAIL.

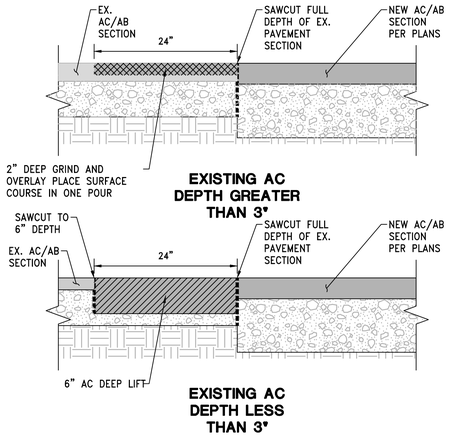
TRENCH DETAIL
NTS

1



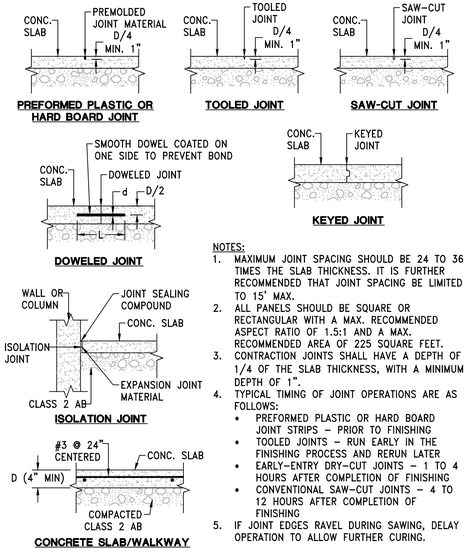
SANITARY SEWER BACKFLOW PREVENTIVE DEVICE
NTS

8



NEW TO EXISTING AC INTERFACE
NTS

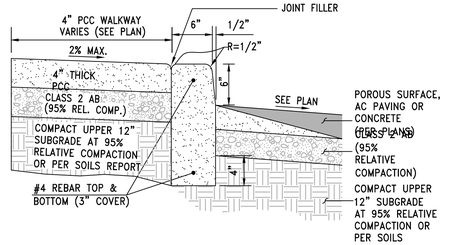
7



NOTES:
1. MAXIMUM JOINT SPACING SHOULD BE 24 TO 36 TIMES THE SLAB THICKNESS. IT IS FURTHER RECOMMENDED THAT JOINT SPACING BE LIMITED TO 15' MAX.
2. ALL PANELS SHOULD BE SQUARE OR RECTANGULAR WITH A MAX. RECOMMENDED ASPECT RATIO OF 1.5:1 AND A MAX. RECOMMENDED AREA OF 225 SQUARE FEET.
3. CONTRACTION JOINTS SHALL HAVE A DEPTH OF 1/4 OF THE SLAB THICKNESS, WITH A MINIMUM DEPTH OF 1".
4. TYPICAL TIMING OF JOINT OPERATIONS ARE AS FOLLOWS:
   - PREFORMED PLASTIC OR HARD BOARD JOINT STRIPS – PRIOR TO FINISHING
   - TOOLED JOINTS – RUN EARLY IN THE FINISHING PROCESS AND RERUN LATER
   - EARLY-ENTRY DRY-CUT JOINTS – 1 TO 4 HOURS AFTER COMPLETION OF FINISHING
   - CONVENTIONAL SAW-CUT JOINTS – 4 TO 12 HOURS AFTER COMPLETION OF FINISHING
5. IF JOINT EDGES RAVEL DURING SAWING, DELAY OPERATION TO ALLOW FURTHER CURING.

CONCRETE WALKWAYS
NTS

6



NOTES:
1. PROVIDE 1" DEPTH WEAKENED PLANE JOINTS AT 10' O.C.. INSTALL 3/8" ASPHALT IMPREGNATED FIBER EXPANSION JOINTS AT 60' O.C. AND AT ALL CURB RETURNS AND CHANGE IN DIRECTION.
2. TOP AND FRONT OF CURB AND GUTTER TO BE FINE BRUSH FINISH AFTER TROWELLING, BRUSHING TO BE PARALLEL TO LINE OF CURB.
3. SEE SOILS REPORT FOR COMPACTION REQUIREMENTS BENEATH CURB IF DIFFERENT FROM DETAIL.
4. SUBGRADE CONSTRUCTION AND COMPACTION SHALL BE PERFORMED UNDER THE SUPERVISION OF THE SOILS ENGINEER.
5. FOR AREAS NEXT TO EXISTING ROADWAY, ROAD SECTION MAY BE SUBSTITUTED WITH EITHER (6" MIN AC DEEPLIFT) OR (FULL AC DEEPLIFT TO EXISTING SUBGRADE) WHICHEVER IS GREATER.

CURB AND SIDEWALK
NTS

5

NOTE: THE DETAILS ON THIS PAGE ARE FOR ON-SITE IMPROVEMENTS ONLY. SEE SHEET C1.0 FOR OFF-SITE IMPROVEMENT DETAILS.

I:_PROJECTS\2021\21006 BARTA (Gault)\DWGS\2 - CONSTRUCTION_BUILDING PERMIT SET\C1.1-DETL.dwg 15Sep22 12:24:11 PM JonHand © IFLAND ENGINEERS, INC.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT MARK BARTOS No. C-34735 STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building

Gault Elementary School

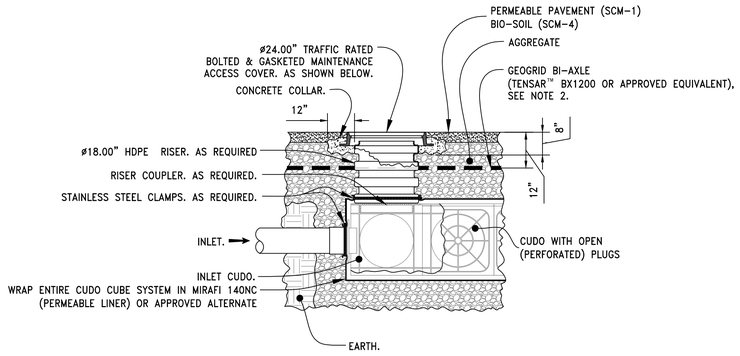
REVISION	DATE
DELTA 1: DSA BACKCHECK	8/1/22

CONSULTANT
IFLAND ENGINEERS
5300 SOQUEL AVENUE, SUITE 101.
SANTA CRUZ, CA 95062
TEL (831) 426-5313
FAX (831) 426-1763
www.iflandengineers.com
IEI JOB #21006

REGISTERED PROFESSIONAL ENGINEER MATTHEW J. REGAN NO. 92173 CIVIL STATE OF CALIFORNIA

DETAILS
C1.1

BA 17-005.5



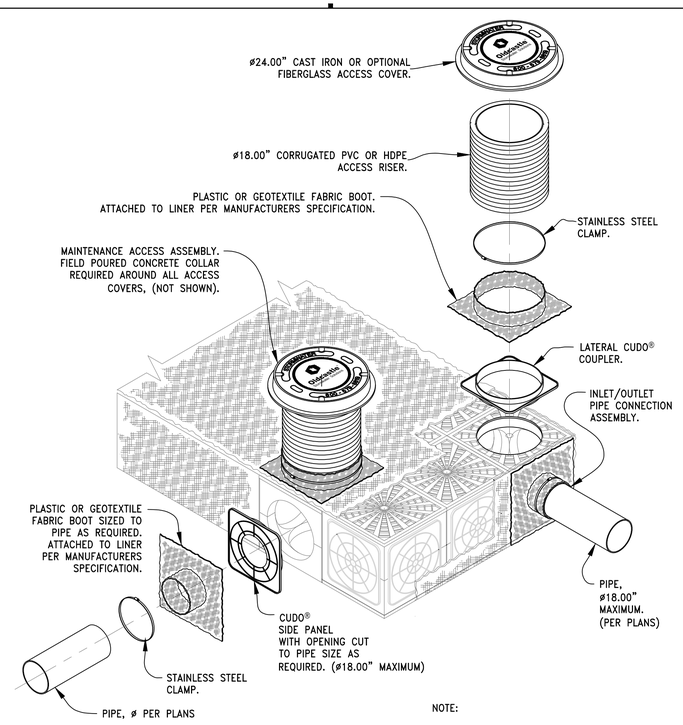
NOTES:

1. REFER TO CUDO INSTALLATION SPECIFICATIONS FOR MORE INFORMATION.
2. INSTALL GEOGRID LAYER, (TENSAR™ BX1200 OR APPROVED ALTERNATE) IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS IN AREAS SUBJECT TO VEHICLE TRAFFIC.
3. DETAIL PROVIDED BY OLDCASTLE FOR REFERENCE, ACTUAL SYSTEM LAYOUT MAY DIFFER.

TYPICAL MAINTENANCE ACCESS TO CUDO CUBE SYSTEM

NTS

11



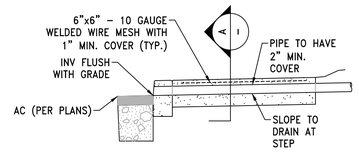
NOTE:

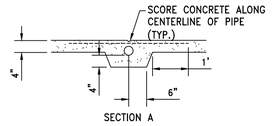
1. DETAIL PROVIDED BY OLDCASTLE FOR REFERENCE. ACTUAL SYSTEM LAYOUT MAY DIFFER

INLET/OUTLET CONNECTION TO CUDO CUBE SYSTEM

NTS

10





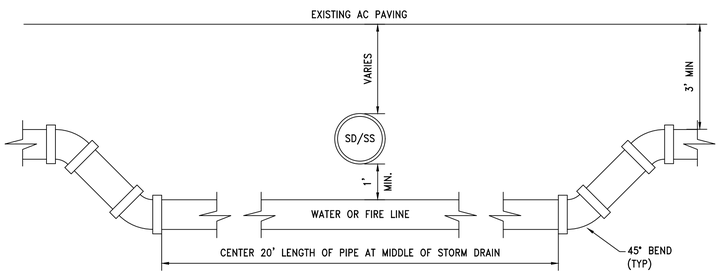
SECTION A

NOTE
THROUGH CURB DRAIN SHALL BE 4" I.D. SMOOTH, SOLID WALL SCHEDULE 80 PVC PIPE. FOR INCREASED HYDRAULIC CAPACITY.

THROUGH CURB DRAIN

NTS

9



NOTES:

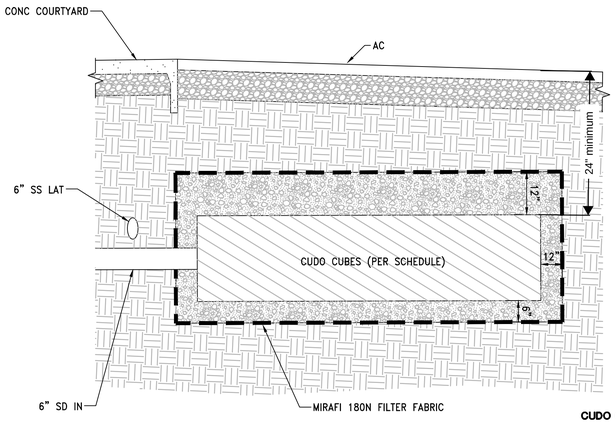
1. WATER/FIRE LINE TRENCH BEDDING PER SCWD STANDARD SPECIFICATIONS.
2. BACKFILL AND COMPACTION BETWEEN PIPES PER DIRECTION OF SOILS ENGINEER.

PIPE CROSSING DETAIL

NTS

14

NOTE
CUDO CUBES TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.



CUDO CUBE SCHEDULE

SCM NO.	NO. OF ROWS OF CUBES	NO. OF CUBES PER ROW
1	1	97
2	1	79

SEE PLAN FOR DIMENSIONS OF CUDO CUBES AND BIOTREATMENT FACILITY

SECTION A

H: 1"=30'
V: 1"=15'

13

NOTE
CUDO CUBES ARE 2'x2'x2' CUBES

12

NOTE: THE DETAILS ON THIS PAGE ARE FOR ON-SITE IMPROVEMENTS ONLY. SEE SHEET C1.0 FOR OFF-SITE IMPROVEMENT DETAILS.

I:_PROJECTS\2021\21006 BAMIA (Gault)\DWGS\Z - CONSTRUCTION_BUILDING PLANS\ 3x1\C1.2-DETAILS.dwg 12/22/2021 12:24:26 PM Jonlland ©IFLAND ENGINEERS, INC.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT MARK BARTOS No. C-34735 STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building

Gault Elementary School

REVISION	DATE
DELTA 1: DSA BACKCHECK	8/1/22

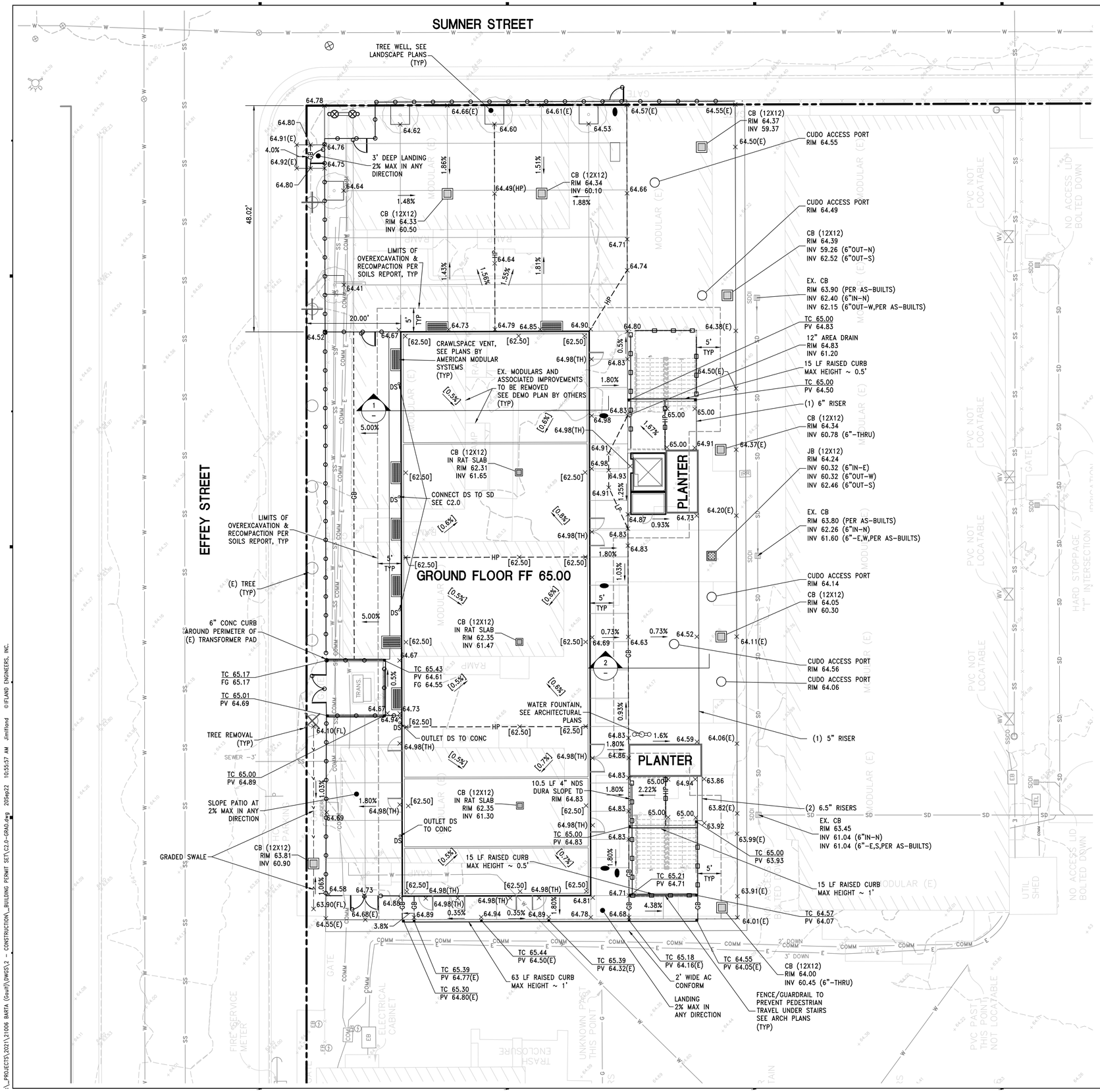
CONSULTANT
IFLAND ENGINEERS
5300 SOQUEL AVENUE, SUITE 101,
SANTA CRUZ, CA 95062
TEL (831) 426-5313
FAX (831) 426-1763
www.iflandengineers.com

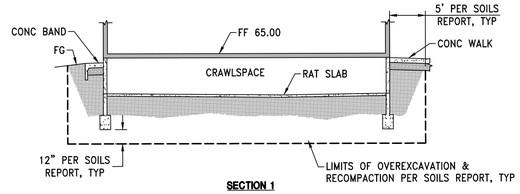
IEI JOB #21006

REGISTERED PROFESSIONAL ENGINEER MATTHEW J. REGAN NO. 92173 CIVIL STATE OF CALIFORNIA

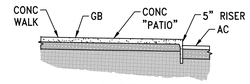
DETAILS
C1.2

BA 17-005.5





SECTION 1
H:1"=10'
V:1"=5'



SECTION 2
H:1"=10'
V:1"=5'

NOTES:

1. ALL COMPACTION AND GRADING SHALL BE PERFORMED UNDER THE STRICT SUPERVISION OF THE GEOTECHNICAL ENGINEER.
2. CONTRACTOR TO VERIFY WITH THE GEOTECHNICAL REPORT AND ANY SUBSEQUENT ADDENDUM LETTERS FOR FINAL THICKNESS OF THE BUILDING PAD PRIOR TO CONSTRUCTION.
3. CONTRACTOR TO VERIFY THE STRUCTURAL SECTION FOR SLAB ON GRADE FLOORS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO CONSTRUCTION.

GRAPHIC SCALE: 1 INCH = 10 FEET

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building

Gault Elementary School

REVISION	DATE
DELTA 1: DSA BACKCHECK	8/1/22

CONSULTANT
IFLAND ENGINEERS
5300 SOQUEL AVENUE, SUITE 101,
SANTA CRUZ, CA 95062
TEL (831) 426-5313
FAX (831) 426-1763
www.ifandengineers.com

IEI JOB #21006

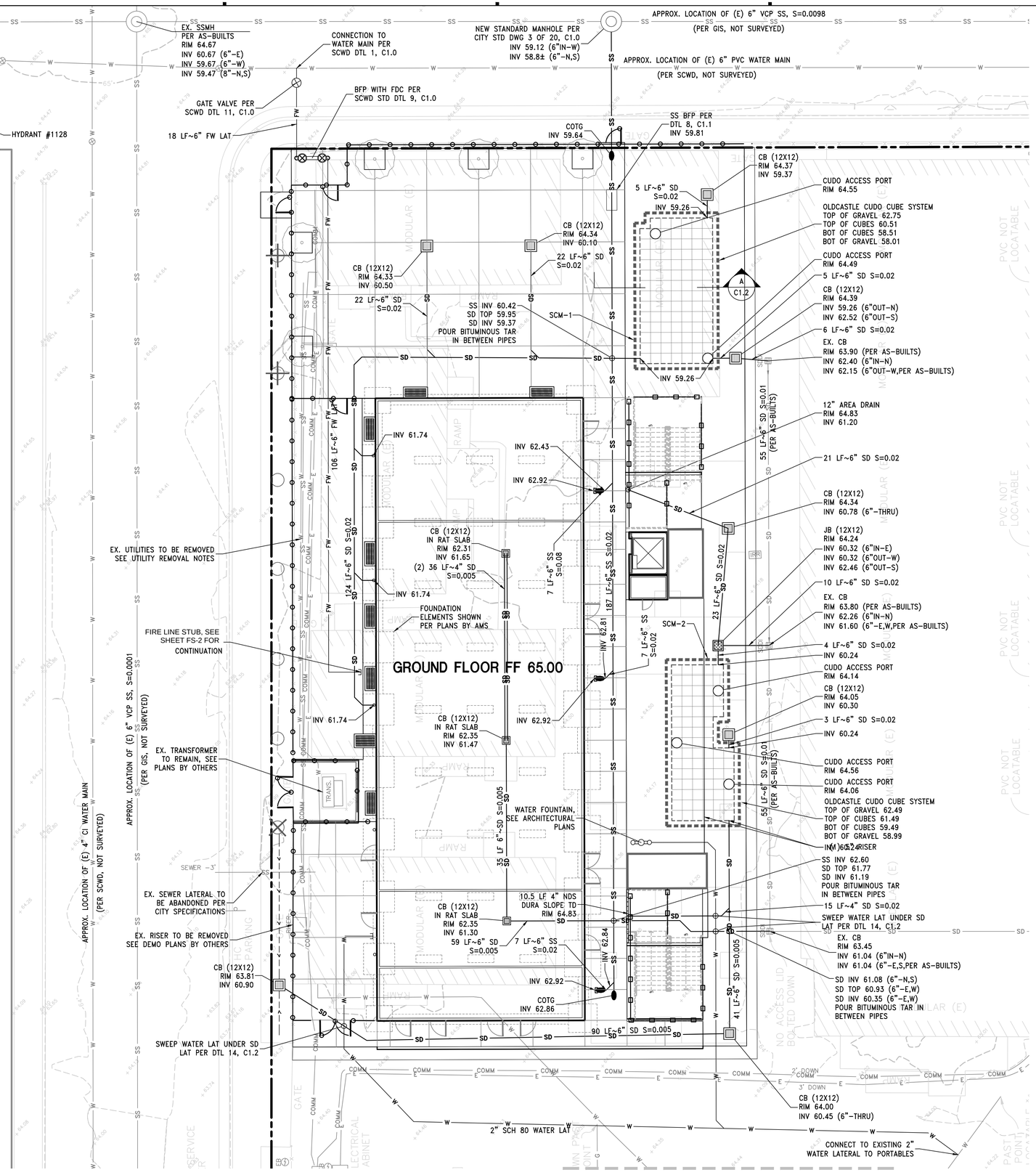
MATTHEW J. REGAN
NO. 92173
C.I.V.I.L.
STATE OF CALIFORNIA

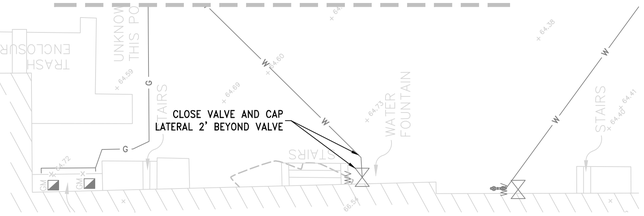
GRADING AND DRAINAGE PLAN

C2.0

BA 17-005.5

_PROJECTS\2021\21006 BARTA (Gault)\DWGS\2 - CONSTRUCTION_BUILDING PERMIT SET\C2.0-GRAD.dwg 20Sep22 10:55:57 AM JimIfland ©IFLAND ENGINEERS, INC.





10' 0 5' 10' 20'
GRAPHIC SCALE: 1 INCH = 10 FEET

FIRE FLOW DATA

FLOW DATA PROVIDED BY CITY OF SANTA CRUZ WATER DEPARTMENT DATED 10/19/2021.

HYDRANT #	STATIC PRESSURE (PSI)	RESIDUAL PRESSURE (PSI)	FLOW (GPM)	FLOW @ 20PSI (GMP)	TEST DATE
1128	88	76	1061	2708	10/2021

NOTES:

1. CONTRACTOR TO POT HOLE SEWER MAIN AND REPORT FINDINGS TO THE ENGINEER PRIOR TO CONSTRUCTION.

UTILITY REMOVAL NOTES:

1. CONTRACTOR TO VERIFY IF UTILITIES ARE IN USE PRIOR TO REMOVAL. DO NOT REMOVE ANY UTILITIES, OR SEGMENTS THEREOF, THAT ARE PROVIDING SERVICE TO BUILDINGS NOT BEING DEMOLISHED.
2. UTILITIES RUNNING UNDER EXISTING TRANSFORMER PAD SHALL BE ABANDONED IN PLACE. DO NOT DAMAGE EXISTING TRANSFORMER PAD.
3. SEGMENTS OF EXISTING WATER AND SEWER LINES BELOW TRANSFORMER PAD SHALL BE BACKFILLED WITH FLOWABLE FILL AND CAPPED. SEE SHEET C0.1 FOR FLOWABLE FILL SPECS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT
MARK BARTOS
RENEWAL 08/31/2023
STATE OF CALIFORNIA

Santa Cruz
City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building

Gault Elementary School

REVISION	DATE
DELTA 1: DSA BACKCHECK	8/1/22

CONSULTANT
IFLAND ENGINEERS
5300 SOQUEL AVENUE, SUITE 101,
SANTA CRUZ, CA 95062
TEL (831) 426-5313
FAX (831) 426-1763
www.ifandengineers.com

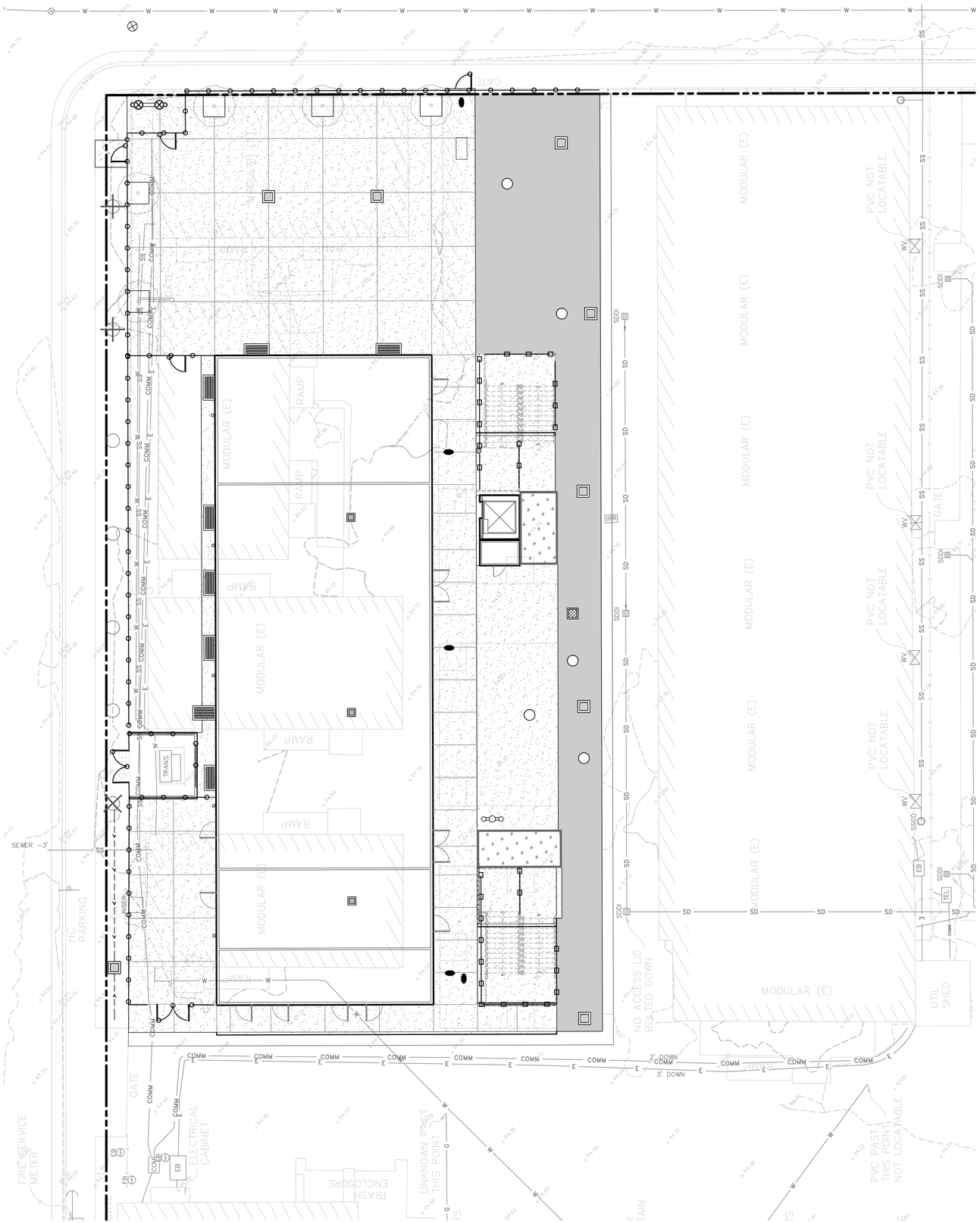
IEI JOB #21006

REGISTERED PROFESSIONAL ENGINEER
MATTHEW W. REGAN
NO. 92173
CIVIL
STATE OF CALIFORNIA

UTILITY PLAN
C3.0

BA 17-005.5

I:_PROJECTS\2021\21006 BARTA (Gault)\DWGS\2 - CONSTRUCTION_BUILDING PERMIT SET\C3.0-UTIL.dwg 15Sep22 12:25:17 PM JonRand ©IFLAND ENGINEERS, INC.



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT
MARK BARTOS
RENEWAL 08/31/23
STATE OF CALIFORNIA

Santa Cruz
City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building

Gault Elementary School

REVISION	DATE
DELTA 1: DSA BACKCHECK	8/1/22

CONSULTANT

IFLAND ENGINEERS
5300 SOQUEL AVENUE, SUITE 101,
SANTA CRUZ, CA 95062
TEL (831) 426-5313
FAX (831) 426-1763
www.iflandengineers.com

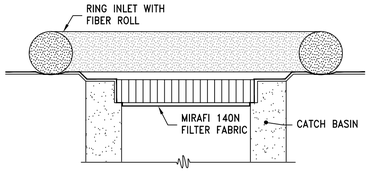
IEI JOB #21006

REGISTERED PROFESSIONAL ENGINEER
MATTHEW J. REGAN
NO. 92173
CIVIL
STATE OF CALIFORNIA

PAVING PLAN
C4.0

BA 17-005.5

I:_PROJECTS\2021\21006 BARTA (Gault)\DWGS\2 - CONSTRUCTION_BUILDING PERMIT SET\C4.0-PAVE.dwg 15/Jul/22 02:43:26 PM mregan ©IFLAND ENGINEERS, INC.

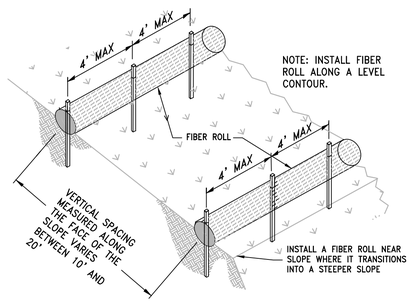


INSPECTION AND MAINTENANCE:

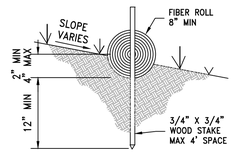
1. FILTER FABRIC BARRIERS SHALL BE INSPECTED WEEKLY AFTER EACH SIGNIFICANT STORM – 1 INCH RAINFALL (25.4 MM) IN 24 HOUR PERIOD. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
2. SEDIMENT SHOULD BE REMOVED WHEN IT REACHES 3" MAXIMUM HEIGHT. AT THAT TIME INSPECT THE FILTER MATERIAL FOR TEARS AND CLEAN OR REPLACE AS REQUIRED.
3. THE REMOVED SEDIMENT SHALL BE DISTRIBUTED EVENLY ACROSS AREAS ON–SITE, CONFORM WITH THE EXISTING GRADE AND BE REVEGETATED OR OTHERWISE STABILIZED PER EROSION CONTROL NOTES.

CATCH BASIN PROTECTION

NTS



TYPICAL INSTALLATION



ENTRENCHMENT DETAIL

CONSTRUCTION SPECIFICATIONS

1. PREPARE SLOPE BEFORE THE FIBER ROLL PROCEDURE IS STARTED. SHALLOW GULLIES SHOULD BE SMOOTHED AS WORK PROGRESSES.
2. DIG SMALL TRENCHES ACROSS SLOPE ON CONTOUR, TO PLACE FIBER ROLLS IN. THE TRENCH SHOULD BE DEEP ENOUGH TO ACCOMMODATE HALF THE THICKNESS OF THE FIBER ROLL. WHEN THE SOIL IS LOOSE AND UNCOMPACTED, THE TRENCH SHOULD BE DEEP ENOUGH TO BURY THE FIBER ROLL 2/3 OF ITS THICKNESS BECAUSE THE GROUND WILL SETTLE. IT IS CRITICAL THAT FIBER ROLLS ARE INSTALLED PERPENDICULAR TO WATER MOVEMENT, PARALLEL TO THE SLOPE CONTOUR.
3. START BUILDING TRENCHES AND INSTALL FIBER ROLLS FROM THE BOTTOM OF THE SLOPE AND WORK UP.
4. CONSTRUCT TRENCHES AT CONTOUR INTERVALS OF THREE TO EIGHT FEET APART DEPENDING ON STEEPNESS OF SLOPE. THE STEEPER THE SLOPE, THE CLOSER TOGETHER THE TRENCHES.
5. LAY THE FIBER ROLL ALONG THE TRENCHES FITTING IT SNUGLY AGAINST THE SOIL. MAKE SURE NO GAPS EXIST BETWEEN THE SOIL AND THE FIBER ROLL. USE A STRAIGHT BAR TO DRIVE HOLES THROUGH THE FIBER ROLL AND INTO THE SOIL FOR THE WOODEN STAKES.
6. DRIVE THE STAKE THROUGH THE PREPARED HOLE INTO THE SOIL. LEAVE ONLY ONE OR TWO INCHES OF STAKE EXPOSED ABOVE FIBER ROLL. IF USING WILLOW STAKES REFER TO USDA SOIL CONSERVATION SERVICE TECHNICAL GUIDE, BIOENGINEERING, FOR GUIDELINES TO PREPARING LIVE WILLOW MATERIAL.
7. INSTALL STAKES AT LEAST EVERY FOUR FEET APART THROUGH FIBER ROLL. ADDITIONAL STAKES MAY BE DRIVEN ON THE DOWNSLOPE SIDE OF THE TRENCHES ON HIGHLY EROSIVE OR VERY STEEP SLOPES.

INSTALLATION AND MAINTENANCE

8. INSPECT THE FIBER ROLL AND THE SLOPES AFTER SIGNIFICANT STORMS. MAKE SURE THE FIBER ROLLS ARE IN CONTACT WITH THE SOIL.
9. REPAIR ANY RILLS OR GULLIES PROMPTLY.
10. RESEED OR REPLANT VEGETATION IF NECESSARY UNTIL THE SLOPE IS STABILIZED.

FIBER ROLLS

NTS

SLOPE INSTALLATION TABLE	
SLOPE	MAX FIBER ROLL SPACING (FT)
4:1 (OR FLATTER)	20
4:1 TO 2:1	15
GREATER THAN 2:1	10

EROSION CONTROL NOTES

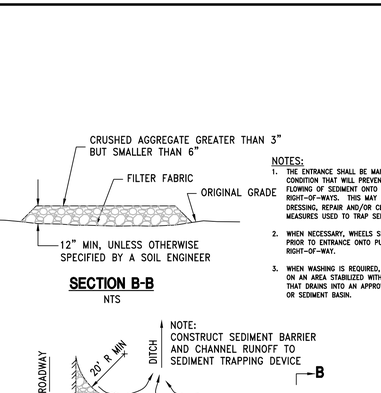
1. THE EROSION CONTROL PLANS IN THIS SET SHALL BE REVIEWED AND IMPLEMENTED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. ADDITIONAL DIRECTION, DETAILS, AND REQUIREMENTS ARE INCLUDED IN THE SWPPP. CONTRACTOR SHALL WORK WITH THE PROJECT'S QUALIFIED SWPPP PRACTITIONER (QSP) THROUGHOUT CONSTRUCTION TO ENSURE THE SITE IS PROPERLY PROTECTED FROM POSSIBLE POLLUTANTS. THE QSP HAS AUTHORIZATION TO ADD OR REMOVE BMP MEASURES THROUGHOUT CONSTRUCTION AS SPECIFIED IN THE SWPPP DOCUMENT.
2. NO LAND CLEARING, GRADING OR EXCAVATION SHALL BE DONE BETWEEN OCTOBER 1ST AND APRIL 30TH. ANY DEVIATION FROM THIS CONDITION REQUIRES REVIEW AND APPROVAL OF A SEPARATE WINTER EROSION CONTROL PLAN BY ENVIRONMENTAL PLANNING PRIOR TO BEGINNING CONSTRUCTION. THE DEVELOPER SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING SITE EROSION CONTROL AT ALL TIMES.
3. IT SHALL BE THE RESPONSIBILITY OF THE OWNER AND THE PERMITTEE TO ENSURE THAT EROSION DOES NOT OCCUR FROM ANY ACTIVITY DURING OR AFTER PROJECT CONSTRUCTION. ADDITIONAL MEASURES, BEYOND THOSE SPECIFIED, MAY BE REQUIRED BY THE PLANNING DIRECTOR AS DEEMED NECESSARY TO CONTROL ACCELERATED EROSION.
4. PRIOR TO ANY FORECAST RAIN AND ANYTIME BETWEEN OCTOBER 1ST AND APRIL 30TH, AT THE END OF EACH WORKDAY, AT THE END OF EACH WORKWEEK, THE DEVELOPER SHALL IMPLEMENT ALL TEMPORARY MEASURES NECESSARY TO PREVENT EROSION AND SILTATION, UNTIL THE PROJECT HAS BEEN FINALIZED. THESE MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, DIRECT SEEDING OF THE AFFECTED AREAS, STRAW MULCHING, AND/OR INSTALLATION OF STRAW BALES DAMS/SILT FENCES.
5. DURING CONSTRUCTION, NO TURBID WATER SHALL BE PERMITTED TO LEAVE THE SITE. USE OF SILT AND GREASE TRAPS, FILTER BERMS, OR SILT FENCES SHALL BE USED TO PREVENT SUCH DISCHARGE.
6. ALL AREAS ON– AND OFF–SITE EXPOSED DURING CONSTRUCTION ACTIVITIES, IF NOT PERMANENTLY LANDSCAPED PER PLAN, SHALL BE PROTECTED BY MULCHING AND/OR SEEDING WITH ANNUAL WINTER BARLEY.
7. ALL EXCAVATED MATERIAL SHALL BE REMOVED TO AN APPROVED DISPOSAL SITE OR DISPOSED OF ON–SITE IN A MANNER THAT WILL NOT CAUSE EROSION.
8. ANY MATERIAL STOCKPILED, FOR LONGER THAN 14 DAYS, DURING CONSTRUCTION SHALL BE COVERED WITH PLASTIC.
9. UPON COMPLETION OF CONSTRUCTION, ALL REMAINING EXPOSED SOILS SHALL BE PERMANENTLY REVEGETATED PER LANDSCAPING PLAN. THE PROTECTION REQUIRED BY SECTION 16.19.140 SHALL BE INSTALLED PRIOR TO CALLING FOR FINAL APPROVAL OF THE PROJECT AND AT ALL TIMES BETWEEN OCTOBER 1ST AND APRIL 30TH. SUCH PROTECTION SHALL BE MAINTAINED FOR AT LEAST ONE WINTER UNTIL PERMANENT PROTECTION IS ESTABLISHED.
10. EXPOSED SOIL ON SLOPES GREATER THAN 20% SHALL BE SEEDED, COVERED WITH 2 INCHES OF STRAW, AND AN EROSION CONTROL BLANKET. THE EROSION CONTROL BLANKET SHALL BE STAKED IN PLACE.
11. IT IS THE DEVELOPER'S RESPONSIBILITY TO SEE THAT ADDITIONAL MEASURES, NECESSARY TO CONTROL SITE EROSION AND PREVENT SEDIMENT TRANSPORT OFF–SITE ARE IMPLEMENTED.
12. ALL SPILLS AND/OR LEAKS SHALL BE IMMEDIATELY CLEANED UP AND MITIGATED PER THE SPILL RESPONSE REQUIREMENTS SPECIFIED IN THE SWPPP DOCUMENT AND THE CONTRACTORS O&M STANDARDS.
13. CONTRACTOR SHALL OFF–HAUL DIRT IMMEDIATELY AFTER EXCAVATION. STOCKPILING OF DIRT NOT ALLOWED.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

Santa Cruz
City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

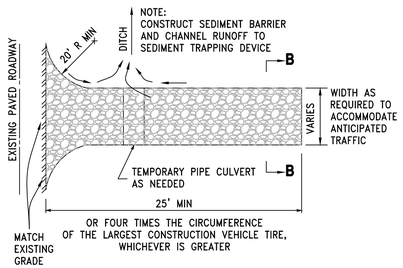


NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT–OF–WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT–OF–WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

SECTION B-B

NTS



CONSTRUCTION SPECIFICATIONS:

1. THE AGGREGATE SIZE FOR CONSTRUCTION OF THE PAD SHALL BE 2–3 INCH (50–75 MM) STONE. PLACE THE GRAVEL TO THE SPECIFIC GRADE AND DIMENSIONS SHOWN ON THE PLANS, AND SMOOTH IT.
2. THE THICKNESS OF THE PAD SHALL NOT BE LESS THAN 6 INCHES (152 MM). USE GEOTEXTILE FABRICS, IF NECESSARY, TO IMPROVE STABILITY OF THE FOUNDATION IN LOCATIONS SUBJECT TO SEEPAGE OR HIGH WATER TABLE.
3. THE WIDTH OF THE PAD SHALL NOT BE LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS AND IN ANY CASE SHALL NOT BE LESS THAN 12 FEET (3.6 M) WIDE.
4. THE LENGTH OF THE PAD SHALL BE AS REQUIRED, BUT NOT LESS THAN 50 FEET (15.2 M).
5. LOCATE CONSTRUCTION ENTRANCES AND EXITS TO LIMIT SEDIMENT LEAVING THE SITE AND TO PROVIDE FOR MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES. AVOID ENTRANCES WHICH HAVE STEEP GRADES AND ENTRANCES AT CURVES IN PUBLIC ROADS.
6. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR MAINTENANCE OF ANY MEASURES USED TO TRAP SEDIMENT.
7. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS–OF–WAY SHALL BE REMOVED IMMEDIATELY.
8. PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP OR OTHER SUITABLE OUTLET.
9. WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS–OF–WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. SEE SEDIMENT BASIN BMP.
10. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL, STRAW BALES, OR OTHER APPROVED METHODS.

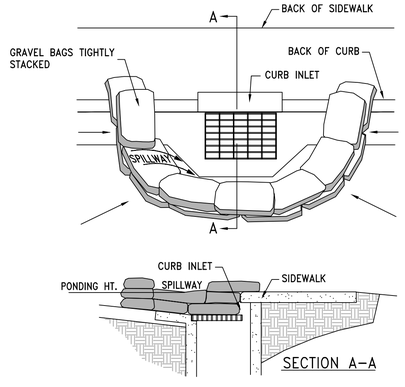
INSPECTION AND MAINTENANCE:

11. MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE.
12. REPLACE GRAVEL MATERIAL WHEN SURFACE VOIDS ARE VISIBLE.
13. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY.
14. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS. REMOVE ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS WITHIN 24 HOURS.

STABILIZED CONSTRUCTION ENTRANCE

NTS

RUMBLE STRIPS MAY BE USED AS AN ALTERNATIVE SUBJECT TO THE APPROVAL OF THE CITY PRIOR TO INSTALLATION



CONSTRUCTION SPECIFICATIONS:

1. PLACE THE BARRIERS ON GENTLY SLOPING STREETS WHERE WATER CAN POND.
2. THE BARRIERS MUST ALLOW FOR OVERFLOW FROM A SEVERE STORM EVENT. SLOPE RUNOFF SHALL BE ALLOWED TO FLOW OVER BLOCKS AND GRAVEL AND NOT BE BYPASSED OVER THE CURB. A SPILLWAY SHALL BE CONSTRUCTED WITH THE SANDBAG STRUCTURES TO ALLOW OVERFLOW.
3. THE SANDBAG SHOULD BE OF WOVEN–TYPE GEOTEXTILE FABRIC.
4. THE SANDBAGS SHALL BE FILLED WITH 3/4 INCH (19 MM) DRAIN ROCK OR 1/4 INCH (6 MM) PEA GRAVEL.
5. THE SANDBAGS SHALL BE PLACED IN A CURVED ROW FROM THE TOP OF CURB AT LEAST 3 FEET (0.9 M) INTO THE STREET. THE ROW SHOULD BE CURVED AT THE ENDS, POINTING UPHILL.
6. SEVERAL LAYERS OF BAGS SHOULD BE OVERLAPPED AND PACKED TIGHTLY.
7. LEAVE A ONE–SANDBAG GAP IN THE TOP ROW TO ACT AS A SPILLWAY.

FOR BLOCK AND GRAVEL TYPE BARRIERS:

8. PLACE TWO CONCRETE BLOCKS ON THEIR SIDES PERPENDICULAR TO THE CURB AT EITHER END OF THE INLET OPENING. THESE WILL SERVE AS SPACER BLOCKS.
9. PLACE CONCRETE BLOCKS ON THEIR SIDES ACROSS THE FRONT OF THE INLET AND ABUTTING THE SPACER BLOCKS. THE OPENINGS IN THE BLOCKS SHOULD FACE OUTWARD, NOT UPWARD.
10. CUT A 2 BY 4 INCH (51 BY 102 MM) STUD THE LENGTH OF THE CURB INLET PLUS THE WIDTH OF THE TWO SPACER BLOCKS. PLACE THE STUD THROUGH THE OUTER HOLE OF EACH SPACER BLOCK TO HELP KEEP THE FRONT BLOCKS IN PLACE.
11. PLACE WIRE MESH OVER THE OUTSIDE VERTICAL FACE (OPEN ENDS) OF THE CONCRETE BLOCKS TO PREVENT STONE FROM BEING WASHED THROUGH THE BLOCKS.
12. USE CHICKEN WIRE, HARDWARE CLOTH WITH 1/2 INCH (13 MM) OPENINGS, OR FILTER FABRIC. REFER TO APPENDIX – GEOTEXTILES/GEOSYNTHETICS.
13. PLACE ¾ – 1½ INCH (19–34 MM) GRAVEL AGAINST THE WIRE TO THE TOP OF THE BARRIER.

INSPECTION AND MAINTENANCE:

14. INSPECT AND CLEAN BARRIER DURING AND AFTER EACH SIGNIFICANT STORM AND REMOVE SEDIMENT FROM BEHIND SANDBAG STRUCTURE AFTER EVERY STORM.
15. ANY SEDIMENT AND GRAVEL SHALL BE IMMEDIATELY REMOVED FROM THE TRAVELED WAY OF ROADS.
16. THE REMOVED SEDIMENT SHALL BE PLACED WHERE IT CANNOT ENTER A STORM DRAIN, STREAM, OR BE TRANSPORTED OFF SITE.
17. IF THE GRAVEL BECOMES CLOGGED WITH SEDIMENT, IT MUST BE CAREFULLY REMOVED FROM THE INLET AND EITHER CLEARED OR REPLACED.

CURB INLET PROTECTION

NTS

New Modular Classroom Building

Gault Elementary School

REVISION	DATE
DELTA 1: DSA BACKCHECK	8/1/22

CONSULTANT
IFLAND ENGINEERS
5300 SOQUEL AVENUE, SUITE 101,
SANTA CRUZ, CA 95062
TEL (831) 426-5313
FAX (831) 426-1763
www.ifandengineers.com

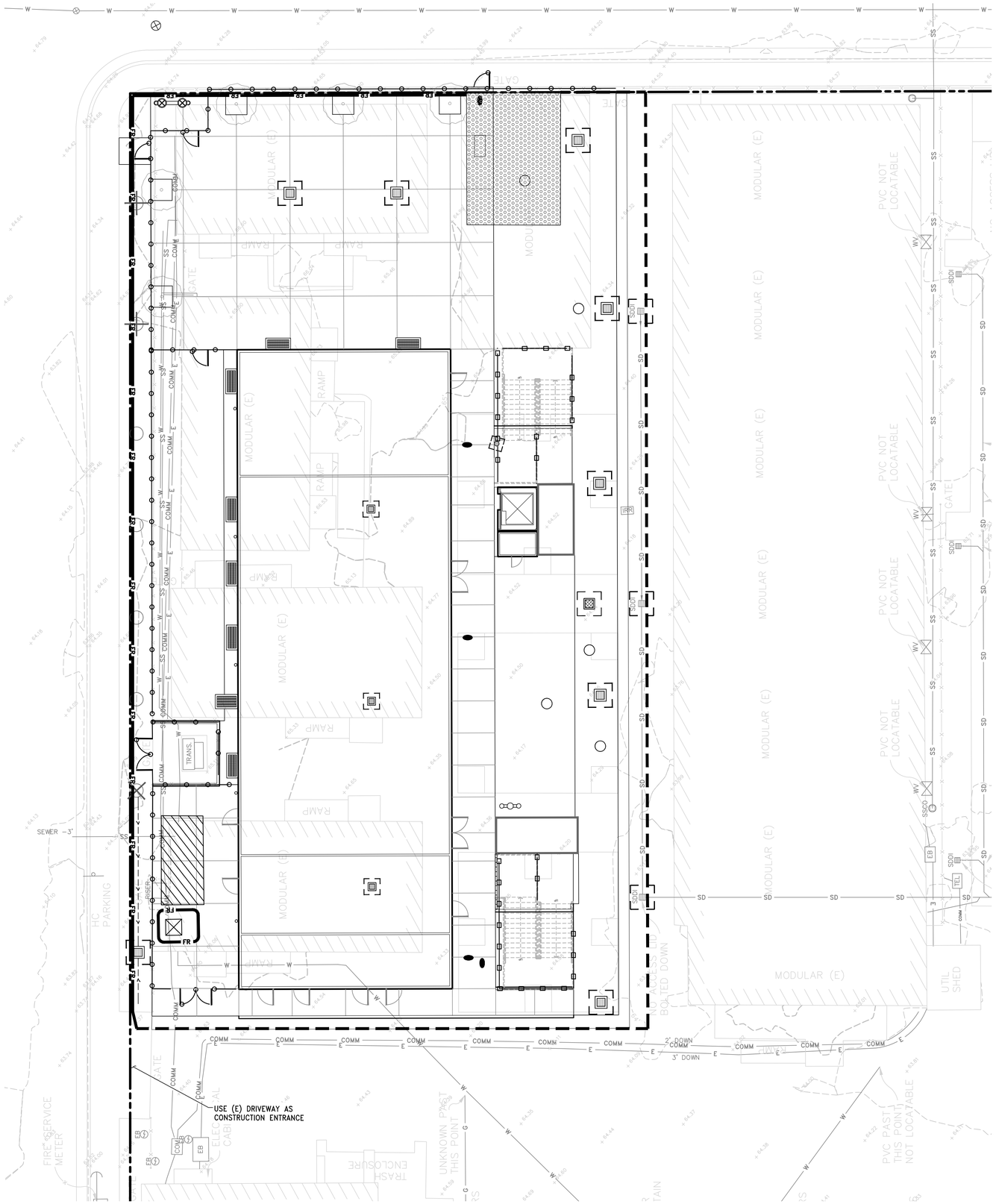
IEI JOB #21006

EROSION CONTROL NOTES AND DETAILS

C5.0

BA 17-005.5

I:_PROJECTS\2021\21006 BARTA (Gault)\DWGS\2 – CONSTRUCTION_BUILDING PERMIT SET\C5.0–EROS.dwg 15JUL22 02:43:30 PM mregan ©IFLAND ENGINEERS, INC.



CONTRACTOR SHALL APPLY BEST MANAGEMENT PRACTICES PER CHAPTER 4 OF THE CITY STORMWATER MANAGEMENT PROGRAM PUBLISHED MARCH 2007, REVISED JUNE 2014.
www.cityofsantacruz.com/home/showdocument?id=8182

NOTES:

1. SEE EROSION CONTROL NOTES AND DETAILS SHEET AS PART OF THIS PLAN SET.
2. EX. PORTABLES NOT BEING REMOVED SHALL REMAIN ACCESSIBLE AND USABLE THROUGHOUT CONSTRUCTION PROCESS.
3. EMERGENCY VEHICLE ACCESS ROUTE (EVA) TO REMAIN OPEN DURING CONSTRUCTION. ANY CLOSURE OF THE EVA SHALL BE APPROVED BY THE CITY OF SANTA CRUZ FIRE DEPARTMENT AND REOPENED BY THE END OF EACH WORK DAY.
4. CONSTRUCTION ENTRANCE SUBJECT TO CHANGE PER CONTRACTOR.

- STABILIZED CONSTRUCTION ENTRANCE PER NOTE 1
- CONSTRUCTION FENCE
- FIBER ROLLS PER NOTE 1.
- CATCH BASIN PROTECTION PER NOTE 1.
- PORTABLE TOILET WITH FIBER ROLLS 2' MIN. AROUND ALL SIDES
- STAGING AREA

20' 0 10' 20' 40'
GRAPHIC SCALE: 1 INCH = 20 FEET

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT
MARK BARTOS
RENEWAL 08/31/23
STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building

Gault Elementary School

REVISION	DATE
DELTA 1: DSA BACKCHECK	8/1/22

CONSULTANT
IFLAND ENGINEERS
5300 SOQUEL AVENUE, SUITE 101,
SANTA CRUZ, CA 95062
TEL (831) 426-5313
FAX (831) 426-1763
www.ifandengineers.com

IEI JOB #21006

REGISTERED PROFESSIONAL ENGINEER
MATTHEW J. REGAN
NO. 92173
CIVIL
STATE OF CALIFORNIA

EROSION CONTROL PLAN

C5.1

BA 17-005.5

I:_PROJECTS\2021\21006 BARTA (Gault)\DWGS\2 – CONSTRUCTION_BUILDING PERMIT SET\C5.1-EROS.dwg 15Jul22 02:43:39 PM mregan ©IFLAND ENGINEERS, INC.

LIST OF GOVERNING CODES

2019 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R.
2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R.
2019 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24, C.C.R.
2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R.
2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R.
2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, C.C.R.
2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R.
2019 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24, C.C.R.
2019 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.
TITLE 19, C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
2016 NFPA 13 AS AMENDED
2016 NFPA 24 AS AMENDED

ALL SECTION NUMBERS BELOW REFER TO GROUP 1, CHAPTER 4, PART 1, TITLE 24, C.C.R.

1. ADDENDA, CONSTRUCTION CHANGES PER SECTION 4-338.
2. INSPECTOR APPROVED BY DSA. INSPECTOR AND CONTINUOUS INSPECTION OF WORK PER SECTION 4-333(b) AND 4-342.
3. TESTS AND TESTING LABORATORY PER SECTION 4-335.
4. SPECIAL INSPECTION PER SECTION 4-333(c).
5. CONTRACTOR SHALL SUBMIT VERIFIED REPORTS PER SECTION 4-336 AND 4-343(c).
6. ADMINISTRATION OF CONSTRUCTION PER PART 1, TITLE 24, C.C.R. - DUTIES OF ARCHITECT, STRUCTURAL ENGINEER OR PROFESSIONAL ENGINEER PER SECTION 4-333(a) AND 4-341.
7. GOVERNING CODES: TITLE 24.
8. A COPY OF PARTS 1, 2, 3, 4, AND 5 OF TITLE 24 SHALL BE KEPT AVAILABLE IN THE FIELD DURING CONSTRUCTION.
9. DSA SHALL BE NOTIFIED OF START OF CONSTRUCTION PER SECTION 4-331.
10. SUPERVISION BY THE DIVISION OF THE STATE ARCHITECT PER SECTION 4-334.

FIRE FLOW CALCULATIONS:

CODE REQUIREMENTS SITE FLOW:
CONSTRUCTION TYPE: V-B (WITH AUTOMATIC SPRINKLER SYSTEM)
FIRE FLOW CALCULATION AREA: 9,600 SF
2019 CFC FIRE FLOW(TABLE BB105.1) 2,750 GPM
2019 CFC MINIMUM FIRE FLOW: 1,500 GPM

AVAILABLE WATER SUPPLY:
CITY OF SANTA CRUZ , OCTOBER 1, 2021
STATIC PRESSURE: 88 PSI, SEE FP1.1 FOR LOCATION
RESIDUAL PRESSURE: 76 PSI
OBSERVED FLOW: 1061GPM
AVAILABLE FLOW: 2708 GPM @ 20 PSI RESIDUAL

DESIGN SITE FLOW:
MINIMUM HYDRANT DESIGN FLOW: 1,000 GPM
NUMBER OF HYDRANTS FLOWING: 2 PUBLIC HYDRANTS
DESIGN SITE FLOW:
FLOW AT EXISTING PUBLIC HYDRANT 1,350 GPM
FLOW AT EXISTING PUBLIC HYDRANT 1,350 GPM
TOTAL DESIGN SITE FLOW: 2,000 GPM
PERCENT REDUCTION = (2750-2700)/2750 X 100% = 2%

UNDERGROUND FIRE SERVICE GENERAL NOTES:

NFPA 24 (2016) SEC. 10.4.1.1 ALL BOLTED JOINT ACCESSORIES SHALL BE CLEANED AND THOROUGHLY COATED WITH ASPHALT OR OTHER CORROSION-RETARDING MATERIAL AFTER INSTALLATION. ALL METALLIC PIPE FITTINGS SHALL BE PROTECTED FROM CORROSIVE SOIL IN ACCORDANCE WITH SPECIFICATION 21 10 00.

NFPA 24 (2016) SEC. 10.8.3.5 AFTER INSTALLATION RODS, NUTS, BOLTS, WASHER, CLAMPS, AND OTHER RESTRAINING DEVICE, EXCEPT THRUST BLOCKS, SHALL BE CLEANED AND THOROUGHLY COATED WITH A BITUMINOUS OR OTHER ACCEPTABLE CORROSION-RETARDING MATERIALS

NFPA 24 (2016) SEC. 10.8.2 THRUST BLOCKS SHALL BE OF A CONCRETE MIX NOT LEANER THAN ON PART CEMENT, TWO AND ONE-HALF PARTS SAND, AND FIVE PARTS STONE WITH A MINIMUM COMPRESSIVE STRENGTH (Fc) OF 2500 PSI. THRUST BLOCKS SHALL BE PLACED BETWEEN UNDISTURBED EARTH AND THE FITTING TO BE RESTRAINED AND SHALL BE OF SUCH BEARING AS TO ENSURE ADEQUATE RESISTANCE TO THRUST TO BE ENCOUNTERED IN GENERAL, THRUST BLOCKS SHALL BE SO PLACED THAT THE JOINTS WILL BE ACCESSIBLE FOR INSPECTION AND REPAIR.

NFPA 24 (2016) SEC. 10.10.2.1 UNDERGROUND MAINS SHALL BE COMPLETELY FLUSHED TO REMOVE FOREIGN MATERIALS THAT MIGHT HAVE ENTERED THE MAIN DURING THE COURSE OF THE INSTALLATION PER TABLE 10.10.2.1.3 TO PRODUCE A VELOCITY OF 10 FEET PER SECOND IN PIPES. LOCAL FIRE JURISDICTION SHALL BE NOTIFIED OF DATE AND TIME OF TESTING SO THEY MAY OBSERVE TESTING

NFPA 24 (2016) SEC 10.10.2.2 ALL NEW PRIVATE UNDERGROUND FIRE SERVICE MAINS SHALL BE TESTED HYDROSTATICALLY AT NO LESS THAN 200-PSI PRESSURE FOR A MINIMUM OF TWO HOUR. LOCAL FIRE JURISDICTION SHALL BE NOTIFIED OF DATE AND TIME OF TESTING AND SHALL OBSERVE AND/OR ASSIST IOR WHENEVER POSSIBLE

THE AMOUNT OF LEAKAGE IN BURIED PIPING SHALL BE MEASURE AT THE SPECIFIED TEST PRESSURE BY PUMPING FROM A CALIBRATED CONTAINER. FOR NEW PIPE, THE AMOUNT OF LEAKAGE AT THE JOINTS SHALL NOT EXCEED TWO QUARTS PER HOUR PER 100 GASKETS OR JOINTS IRRESPECTIVE OF PIPE DIAMETER. NO VISIBLE LEAKAGE SHALL BE ALLOWED IN ABOVEGROUND PIPING. (ALSO SEE SEC. 10.10.2.6 FOR ALLOWABLE LEAKAGE)

HYDROSTATIC TESTS SHALL BE MADE BEFORE THE JOINTS ARE COVERED SO THAT ANY LEAKS MAY BE READILY DETECTED.

NFPA 24 (2016) SEC 10.10 BEFORE ASKING FINAL APPROVAL OF AN INSTALLATION BY THE INSPECTOR OF RECORD, THE INSTALLING COMPANY SHALL FURNISH A CONTRACTORS MATERIAL AND TEST CERTIFICATE TO BE SUBMITTED TO THE OWNER. A TYPICAL CERTIFICATE IS SHOWN IN FIGURE 10.10.1. THIS FORM SHALL BE GIVEN TO THE APPROVING AUTHORITY, OWNER, AND CONTRACTOR.

NFPA 24 (2016)SEC 10.4 THE DEPTH OF COVER OVER WATER PIPES SHALL BE NOT LESS THAN 2'-6" TO PREVENT MECHANICAL DAMAGE AD SHALL BE BURIED A MINIMUM OF 3'-0" UNDER DRIVEWAYS.

THE METHOD USED FOR UNDERGROUND FIRE LINES WHEN ENTERING BUILDING UNDER CONCRETE. NFPA 24(2016) SEC. 12.2.6, NFPA (2016)9.3.4.2 REQUIRES A CLEARANCE BY A PIPE SLEEVE WITH A NOMINAL DIAMETER 4 IN. LARGER THAN THE NOMINAL DIAMETER OF THE SUPPLY PIPING 4 IN. NOMINAL AND LARGER. (I.E FIRE LINES NOMINAL 6IN, REQUIRES 10 IN. SLEEVE)

CPC SEC. 601.1 (2016) PVD PIPING MAY BE INSTALLED TO 5 FEET OUTSIDE THE FOUNDATION OF ANY BUILDING OR STRUCTURE OR PARTS THEROF. IT SHALL BE BURIED IN THE GROUND FOR IS ENTIRE LENGTH. IS SHALL NOT BE INSTALLED WITHIN OR UNDER ANY BUILDING OR STRUCTURE. (DUCTILE PIPE SHALL BE INSTALLED WITHIN 5 FEET OF BUILDING)

OVERHEAD FIRE SPRINKLER SYSTEM GENERAL NOTES:

SYMBOL LEGEND

SYMBOL	ABBRV.	IDENTIFICATION
F	F	FIRE WATER
SPKR	SPKR	SPRINKLER
		PENDENT ON 401 EXTENSION
		RECESSED PENDENT
		UPRIGHT W/ 1" OUTLET BELOW
		UPRIGHT ON 1" SPRIG UP
		UPRIGHT ON BRANCH LINE
		UPRIGHT OVER PENDENT
		SIDEWALL
		GROOVED COUPLING
SB-X		EQ BRACE LOCATION
		4WAY EQ BRACE LOCATION
		HANGER LOCATION
		BRANCH LINE RESTRAINT
X		HYDRAULIC CALCULATION NODE
	CHVA	CHECK VALVE
		GATE VALVE

SYMBOL	ABBRV.	IDENTIFICATION
	T&PRV	TEMP & PRESS RELIEF VALVE
	DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
		UNION
P		PRESSURE GAUGE
	FC	FLEXIBLE CONNECTION
	RPBP	REDUCE PRESS BACKFLOW PREVENTER
	FH	FIRE HYDRANT
	PIV	POST INDICATING VALVE
	FDC	FIRE DEPARTMENT CONNECTION
AD	AD	ACCESS DOOR
		BACK OF ELBOW
Ø	DIA	DIAMETER
	P.O.C.	POINT OF CONNECTION
		CENTERLINE

ABBREVIATIONS

&	AND
°F	DEGREES FAHRENHEIT
AC	AIR CONDITIONER
AFF	ABOVE FINISH FLOOR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AL	ACOUSTICALLY LINED
AMP	AMPERE
APPROX	APPROXIMATE
ARCH	ARCHITECT/ARCHITECTURAL
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
CA	COMBUSTION AIR
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CIRC	CIRCULATING
CLG	CEILING
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUED, CONTINUATION
COOL	COOLING
COP	COEFFICIENT OF PERFORMANCE
DB	DRY BULB
DF	DRINKING FOUNTAIN
D/L	DOOR LOUVER
DN	DOWN
DWGS	DRAWINGS
(E)	EXISTING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
ELEC	ELECTRICAL
ELEV	ELEVATION
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EXT	EXTERIOR
FD	FLOOR DRAIN
FFE	FINISHED FLOOR ELEVATION
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLR	FLOOR
FEET	PER MINUTE FPM
FS	FLOOR SINK
FT	FEET
FT HD	FEET HEAD
FPM	FEET PER MINUTE
FTR	FLUE THRU ROOF
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HR	HOUR
HTG	HEATING
HZ	HERTZ
IE	INVERT ELEVATION
IN	INCH
INV	INVERT
KW	KILOWATTS
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
LWB	LEAVING WET BULB
MAX	MAXIMUM
MBH	1000 BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MCP	MECHANICAL CONTROL PANEL
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
(N)	NEW
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OC	ON CENTER
PD	PRESSURE DROP
PH	PHASE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
P/T	PRESSURE/TEMPERATURE
QTY	QUANTITY
RA	RETURN AIR
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RV	RELIEF VALVE
SA	SUPPLY AIR
SC	SENSIBLE COOLING
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SOV	SHUT-OFF VALVE
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SQ	SQUARE
STRUCT	STRUCTURAL
TC	TOTAL COOLING
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TV	TURNING VANES
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLT
VTR	VENT THROUGH ROOF
W/	WITH
WB	WET BULB
WC	WATER COLUMN
WH	WATER HEATER
WT	WEIGHT

DSA GENERAL NOTES

1. THE INTENT OF THE CONTRACT DOCUMENTS IS ADD A NEW MODULAR CLASSROOM BUILDING (MULTIPURPOSE ROOMS) TO THE SCHOOL'S CAMPUS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
2. ALL HANGERS AND SEISMIC SWAY BRACING SHALL BE DESIGNED AND INSTALLED PER NFPA 13 AND CHAPTER 16A CALIFORNIA BUILDING CODE
3. ALL ANCHORAGE SHALL BE INSTALLED IN ACCORDANCE WITH DETAILS ON THE DSA APPROVED DRAWINGS
4. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.

FIRE DEPARTMENT CONNECTIONS:

NFPA 13(2016) SEC. 8.17.2.5.1 CHECK-VALVE SHALL BE PROVIDED AT FIRE DEPARTMENT CONNECTION ASSEMBLY (FDC) TO PREVENT WATER (PRESSURE) AT INLET OF FDC INLET

TITLE 19 ARTICLE 906 (A) A LABEL OF THE SELF- ADHESIVE TYPE SHALL BE PLACED ON THE FIRE DEPARTMENT CONNECTION OR ON THE RISER FOR FIRE SPRINKLER SYSTEMS WITH THE DATE OF SERVICE AND/OR DATE INSTALLATION WAS PERFORMED ND LICENSE NUMBER OF PERSON PERFORMING SERVICE WORK.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT MARK EDWARD BARTOS No. C-14138 EXP. 08-31-23 STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building.

Gault Elementary School

CONSTRUCTION DOCUMENTS JUNE 28, 2022

N

NONE

LICENSED PROFESSIONAL ENGINEER STEVEN E. RAYMOND No. M30657 EXP. JUNE 30, 2024 MECHANICAL STATE OF CALIFORNIA

CEG JOB NO: 21124

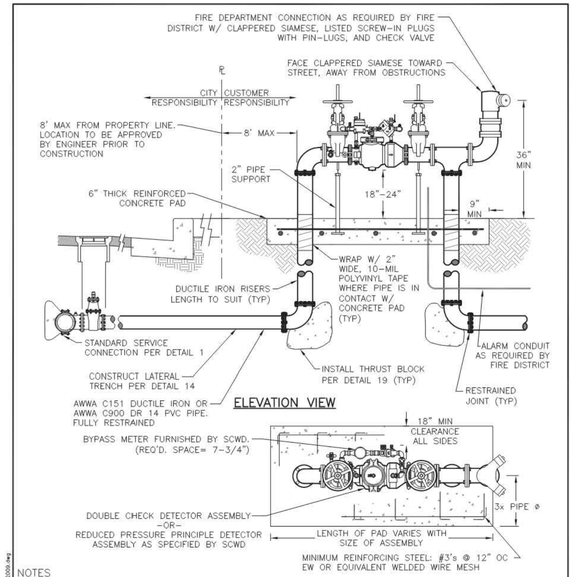
CYPRESS Engineering Group
831.218.1802
8 Harris Court, Suite A8
Monterey, CA 93940
cypressg.com

HVAC, Plumbing, Fire Protection
Building Commissioning
Industrial Refrigeration
Environmental Compliance
Training & Technical Support

SYMBOL LEGENDS, ABBREVIATIONS, NOTES - FIRE PROTECTION

FP0.1

BA 17-005.5

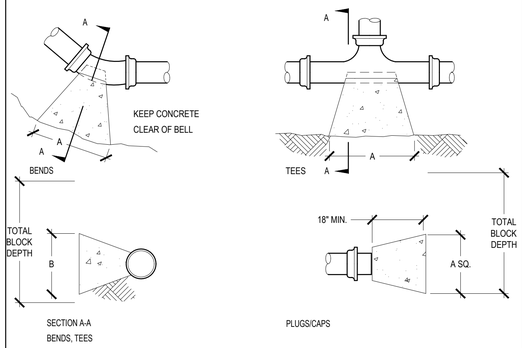


NOTES

1. REFER TO PROJECT CIVIL PLAN FOR REQUIRED TYPE OF DEVICE OR CALL SCWD AT (831) 420-5210 FOR SPECIFIED TYPE PRIOR TO INSTALLATION.
2. O.S. AND Y. VALVES SHALL BE EQUIPPED WITH TAMPER PROOF ALARM DEVICES. VALVES ARE TO BE CHAINED TOGETHER IN THE OPEN POSITION WITH A BREAK-AWAY CHAIN OR AS REQUIRED BY FIRE DISTRICT.
3. ASSEMBLY TO BE PAINTED RED OR OTHER COLOR AS SPECIFIED BY FIRE DISTRICT.
4. DEVICE MUST BE INSTALLED SO THAT IT IS READILY ACCESSIBLE FOR TESTING AND MAINTENANCE. LOCATIONS MUST BE APPROVED BY SCWD PRIOR TO INSTALLATION.
5. INSTALL TRAFFIC BOLLARD(S) PER DETAIL 20 IF REQUIRED BY ENGINEER
6. BRASS OR PLASTIC PLUGS SHALL BE INSTALLED ON ALL TEST PORTS.

WATER DEPARTMENT
CITY OF SANTA CRUZ, CALIFORNIA
DETAIL 9
STANDARD 4-INCH AND LARGER FIRE SERVICE INSTALLATION
NOT TO SCALE
APPROVED
RCE 37391

DRAWING No. 9024 A 08/14/2015
O:\DOCUMENT\STANDARD DETAILS\STANDARD DETAILS\9024A.dwg



SOIL BEARING CAPACITY 2000 PSF FOR SANDY CLAY SOILS TYPE ACCORDANCE WITH NFPA 13: TABLE A10.6(c). SEE GEOTECHICAL REPORT FOR DESCRIPTION OF SOIL CONDITIONS.

TRUST BLOCK CALCULATIONS PER NFPA 13: A10.6.1(b)
6"-90 BEND AREA = (7.9 S.F.)(225 PSI/100PSI)(1000 PSF/2000PSF) = 8.9 S.F.
6"-45 BEND AREA = 8.9 S.F. x 0.541 = 4.8 S.F.
6"-22.5 BEND AREA = 8.9 S.F. x 0.275 = 2.5 S.F.
6"-DEAD END AREA = (5.6 S.F.)(225 PSI/100 PSI)(1000 PSF/2000PSF) = 6.3 S.F.

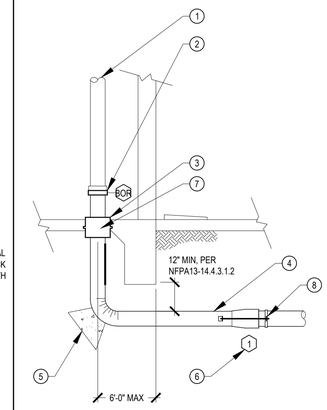
PIPE SIZE	90° BENDS			45° BENDS			22.5° BENDS			TEES AND PLUGS		
	SQ. FT.	"A"	"B"	SQ. FT.	"A"	"B"	SQ. FT.	"A"	"B"	SQ. FT.	"A"	"B"
6	8.9	53"	24"	4.8	39"	18"	2.5	30"	12"	6.3	43"	21"

BASED ON A WATER PRESSURE OF 225 POUNDS PER SQUIRE INCH AND A SOIL RESISTANCE OF 2000 POUNDS PER SQUARE FOOT, AND SAFETY FACTOR OF 1.5 IN ACCORDANCE WITH NFPA 13(2016) TABLE A.10.6.1(b).

TOTAL BLOCK DEPTH SHALL BE AT LEAST TWICE THE BLOCK DEPTH "B" IN ACCORDANCE WITH NFPA 24.

JOINT RESTRAINT SHALL UTILIZE BOTH THRUST BLOCKS AND MEGALUG MECHANICAL JOINT RESTRAINT FITTINGS

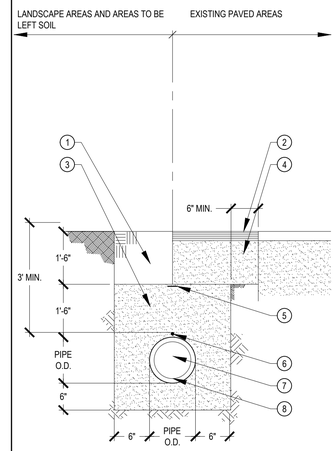
3 THRUST BLOCK N.T.S.



DETAIL NOTES:

1. FOR DETAIL OF OVERHEAD SPRINKLER SYSTEM RISER, SEE OVERHEAD FIRE SPRINKLER DRAWING FS-1.
2. UNDERGROUND WORK TO COUPLING WITH END CAP, 12" ABOVE FINISH GRADE
3. PIPE SLEEVE NOMINALLY 4" GREATER IN DIAMETER THAN THE UNDERGROUND RISER IN ACCORDANCE WITH NFPA 13 9.3.4.2, SEE PLANS FOR SIZE
4. AMES IN-BUILIDNG RISER SERIES IBR TYP 304 SS TO 5'-0' OUTSIDE BUILDING, SEE PLANS FOR SIZE
5. THRUST BLOCK SEE DETAIL 3/FP-0.1.
6. HYDRAULIC CALCULATION NODE, TYPICAL.
7. FILL ANNULAR SPACE WITH FLEXIBLE FIRE CAULK IN ACCORDANCE WITH NFPA13-9.3.4.8.
8. BELL RESTRAINT HARNESS.

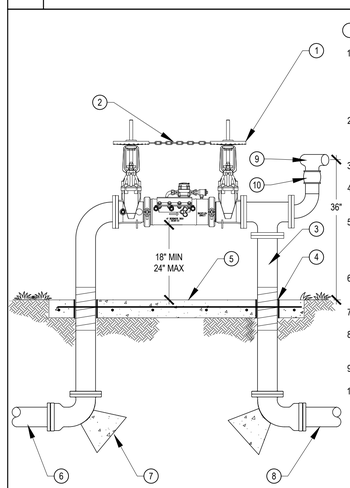
1 UNDERGROUND RISER N.T.S.



DETAIL NOTES:

1. SELECT NATIVE SOILS, 90% COMPACTION FOR AREAS TO BE LEFT IN NATIVE STATE ONLY. CAP AREAS IN UNPAVED ROADWAYS WITH 12" CLASS 2 AGGREGATE BASE, 95% COMPACTION
2. SAWCUT PAVEMENT EACH SIDE OF TRENCH 6" FROM TRENCH EDGE, REMOVE PAVEMENT AND BASEROCK, REPLACE AND RECOMPOST BASEROCK TACKCOAT EDGE AND REPAVE
3. SELECT SAND BACKFILL AT 95% COMPACTION
4. CLASS 2 AGGREGATE BASEROCK
5. PLASTIC WARNING TAPE MARKED "FIRE WATER"
6. 10 GA. COPPER TRACE WIRE COATED AND STRANDED TAPED ON TOP OF ALL NON-METALLIC PIPE
7. SAND BEDDING MATERIAL(95% COMPACTION)
8. FIRE SERVICE PIPING

2 UTILITY TRENCH N.T.S.



DETAIL NOTES:

1. DOUBLE CHECK DETECTOR ASSEMBLY. AMES DERINGER 30G INSTALLED IN ACCORDANCE WITH THE CITY OF SANTA CRUZ WATER DEPARTMENT DETAIL 9.
2. CHAIN AND LOCK OS&Y GATE VALVES(N.O) WITH TAMPER SWITCHES.
3. DUCTILE IRON RISERS.
4. WRAP AND SLEEVE THROUGH CONCRETE.
5. CONC. PAD, 6" THICK x 36" WIDE (18" ALL THE WAY AROUND. REINFORCE WITH NO.4 REBAR AT 16" O.C. BOTH WAYS.
6. DUCTILE IRON FROM WATER MAIN, SEE PLAN FOR SIZE.
7. THRUST BLOCK, TYP, SEE 3/FP0.2.
8. DR14 C900 PVC FIRE/ SPRINKLER MAIN THROUGH PROPERTY SEE PLANS FOR SIZE.
9. SIAMESE CLAPPERED FIRE DEPARTMENT CONNECTION.
10. UL LISTED CHECK VALVE.

4 DOUBLE CHECK DETECTOR ASSEMBLY WITH FIRE DEPARTMENT CONNECTION N.T.S.

REGISTERED PROFESSIONAL ENGINEER STEVEN E. RAYMOND No. M30657 EXP. JUNE 30, 2024 MECHANICAL STATE OF CALIFORNIA

CEG JOB NO: 21124

CYPRESS Engineering Group
831.218.1802
8 Harris Court, Suite A8
Monterey, CA 93940
cypresseg.com
HVAC, Plumbing, Fire Protection
Building Commissioning
Industrial Refrigeration
Environmental Compliance
Training & Technical Support

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT MARK BARTOS No. C-31731 STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building.
Gault Elementary School

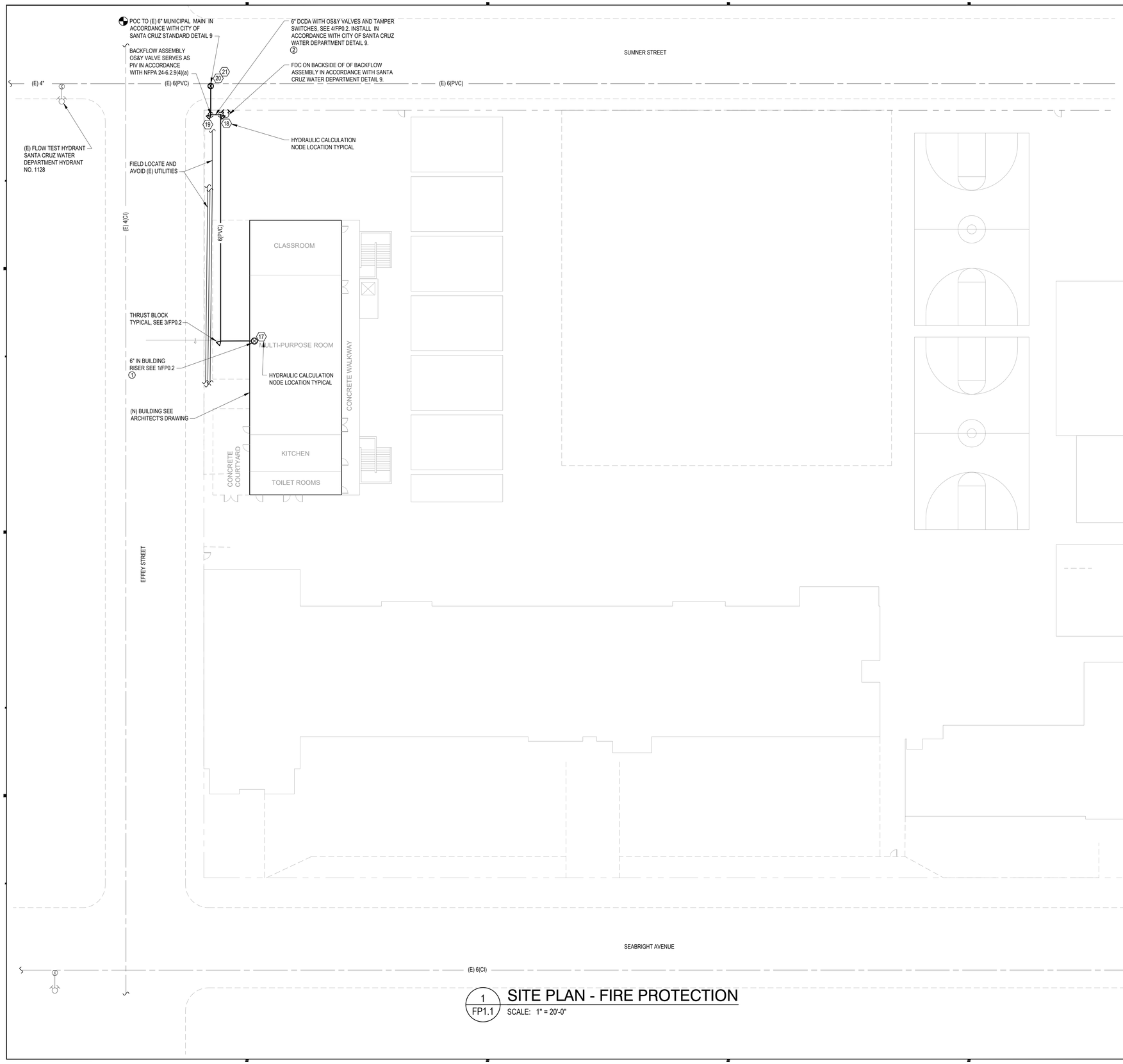
CONSTRUCTION DOCUMENTS
JUNE 28, 2022

N
NONE

DETAILS
- FIRE PROTECTION

FP0.2

BA 17-005.5



1 FP1.1 SITE PLAN - FIRE PROTECTION
SCALE: 1" = 20'-0"

NEW SHEET NOTES

1. FIRE RISER WITH CONTROL VALVE AND FLOW SWITCH THAT REQUIRES MONITORING BY FIRE ALARM SYSTEM
2. DCDA OS&Y VALVES WITH TAMPER SWITCHES THAT REQUIRE MONITORING BY FIRE ALARM SYSTEM.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT MARK BARTOS No. C-34735 RENEWAL 08/31/2023 STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building.
Gault Elementary School

CONSTRUCTION DOCUMENTS
JUNE 28, 2022

N 10 20 40
1" = 20'-0"

ENGINEERED PROFESSIONAL ENGINEER STEVEN E. RAMSOMMER No. M30657 EXP. JUNE 30, 2024 MECHANICAL STATE OF CALIFORNIA

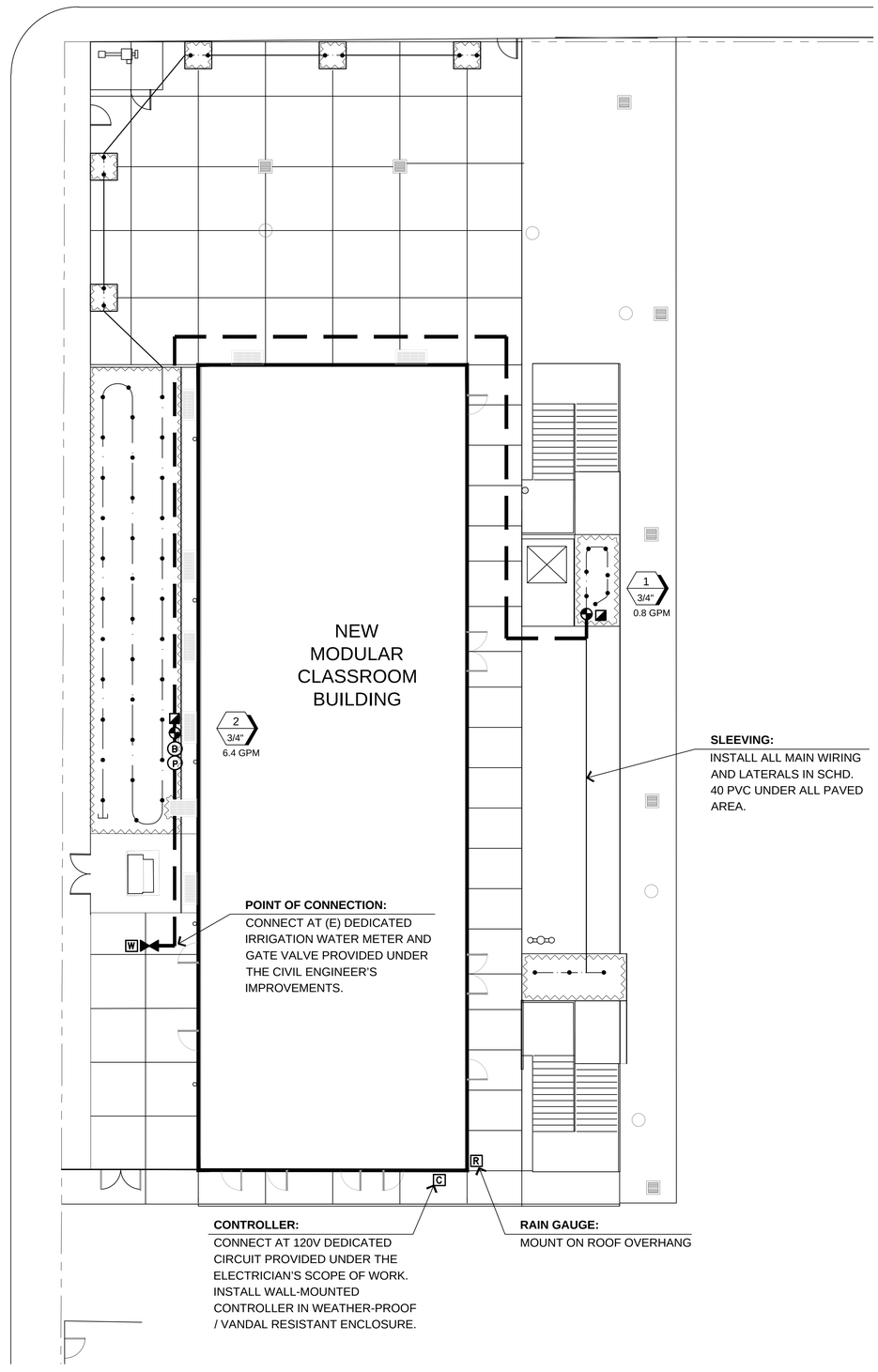
CEG JOB NO: 21124

CYPRESS Engineering Group
831.218.1802
8 Harris Court, Suite A8
Monterey, CA 93940
cypresseg.com
HVAC, Plumbing, Fire Protection
Building Commissioning
Industrial Refrigeration
Environmental Compliance
Training & Technical Support

SITE PLAN - FIRE PROTECTION

FP1.1

BA 17-005.5



WATER USE CALCULATION SUMMARY

MAWA: Maximum. Applied Water Allowance (gal./year):
(39.0) (0.62) (0.7) (1,746 LA) = **42,218 gal./year**

ETWU: Estimated Total Water Use (gal./year):

Hydrozones for Low Water Use Plants:
(39.0) (0.62) (0.3) (1,746 LA) / (0.85)) = 23,861 gal./year

ETWU: 14,901 gal./year

Maximum Applied Water Allowance (MAWA) = (Annual Et) (Conversion factor) (E
(Landscape area)

Estimated Total Water Use (ETWU) = (Annual Et) (Conversion factor) (Plant facto
Irrigation efficiency

HYDROZONE TABLE

HYDROZONE		GPM	ET0	PF
H-1 (VALVE #1 – DRIP)	4.0	0.8	39.0	0.3
H-2 (VALVE #2 - DRIP)		6.4	390"	0.3

TOTAL SQUARE FEET:

IRRIGATION SCHEDULE RUN TIMES
(Plant Establishment Period)

VALVE / CIRCUIT #	Nov. 16 Thru Mar. 15	Mar. 16 Thru May 31	June 1 Thru Aug. 31
1 (DRIP)	25 min (2x / wk)	25 min (3x / wk)	25 min (4x / wk)
2 (DRIP)	25 min (2x / wk)	25 min (3x / wk)	25 min (4x / wk)

IRRIGATION SCHEDULE RUN TIMES
(Mature Plant Material)

VALVE / CIRCUIT #	Nov. 16 Thru Mar. 15	Mar. 16 Thru May 31	June 1 Thru Aug. 31
1 (DRIP)	off	off	25 min (2x / wk)
2 (DRIP)	off	off	25 min (2x / wk)

"I have complied with the criteria of the MWELO (Model Water Efficient Landscape Ordinance) and applied them accordingly for the efficient use of water in the Irrigation Design Plan."

Signature:

John Cahalan, Landscape Architect, LEED AP
CA Reg. No. 2894

IRRIGATION LEGEND

SYMBOL	DESCRIPTION
	DRIP SYSTEM: HUNTER PLD-06-18 (18); IN-LINE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH BUILT-IN CHECK VALVE. 0.6 GPH EMITTERS AT 18.0" O.C. DRIP LATERALS SPACED AT 18.0" APART WITH EMITTERS OFF-SET FOR TRIANGULAR PATTERN. UV RESISTANT. FOR VINE POCKETS, INSTALL THREE EMMITTERS EACH.
⊕	**OTHER DRIP IRRIGATION COMPONENTS:** AIR-RELIEF VALVE: HUNTER 1/2" SIZE PLP-ARV; FLUSH VALVE: HUNTER 3/4" SIZE FNPT CONNECTION; DRIP INDICATOR: HUNTER ECO-1D 1/2" SIZE WITH 6" POP-UP
	DRIP CONTROL VALVE KIT: HUNTER ICZ-101 COMMERCIAL GRADE WITH DC LATCHING SOLENOID 1" SIZE, GLOBE CONFIGURATION WITH HY100 FILTER SYSTEM. PRESSURE REGULATION AT 40 PSI. FLOW RANGE: 0.5 TO 15 GPM. 150 MESH STAINLESS STEEL SCREEN. TRENCH FROM NEW CONTROLLER LOCATION TO THESE VALVES WITH THE NECESSARY WIRING, CONDUCTORS AND ONE SPARE WIRE FOR EACH VALVE.
W	NEW DEDICATED 3/4-INCH IRRIGATION WATER METER PER CIVIL DRAWINGS.
P	PRESSURE REDUCER: 3/4-INCH SIZE – WATTS OR APPROVED EQUAL.
B	BACKFLOW PREVENTION DEVICE: 1-INCH SIZE – FEBCO 825Y OR APPROVED EQUAL. INSTALL ON PAD WITH ENCLOSURE, SEE DETAIL.
C	IRRIGATION CONTROLLER: RAINBIRD, WALLL-MOUNTED, ESP-SMT SMART MODULAR OUTDOOR CONTROL SYSTEM WITH WEATHER-BASED TECHNOLOGY. 4-STATIONS. INSTALL IN LOCKABLE STAINLESS STEEL ENCLOSURE.
R	RAIN SENSOR: IRRITROL RSF-1000, WIRELESS RAIN/FREEZE SENSOR OR APPROVED EQUAL. MOUNT ON EXISTING MEDIAN UTILITY POLE – VERIFY EXACT LOCATION WITH CITY REPRESENTATIVE.
	HOSE BIBB: STRAIGHT, NO-KINK, 3/4" FIP, BRASS. MOUNT ON GALV. IRON PIPE AND SECURE TO STEEL STAKES WITH GALV. METAL STRAPS.
	BALL VALVE: SCHED 80 WITH INTEGRAL UNIONS. INSTALL ON PRESSURE SIDE OF DRIP VALVES IN A SEPARATE, ROUND CARSON BOX WITH BOLT DOWN LID OR APPROVED EQUAL.
	MAIN: SCHED. 40 PVC PLASTIC PIPE, 1-1/2" SIZE, 18" OF COVER.
	LATERAL LINE: SCHED. 40 PVC PLASTIC PIPE, SIZE PER PLAN, 12" OF COVER.
2 / 1" / 2 GPA	VALVE #; VALVE SIZE; APPROX. GAL. / MINUTE

IRRIGATION NOTES

1. **SPECIFICATIONS:** SEE THE TECHNICAL SPECIFICATIONS ON THESE PLANS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. **WATER PRESSURE AND FLOW VERIFICATION:** SYSTEM DESIGN IS BASED ON A **MIN. OF 70 PSI STATIC PRESSURE AND A MIN. OF 10.0 GPM** AVAILABLE AT DISCHARGE OUTLET OF METER OR OTHER POINT OF CONNECTION. CONTRACTOR SHALL VERIFY THE EXISTING STATIC PRESSURE AND GPM (GALLONS PER MINUTE FLOW) AND NOTIFY OWNER'S REPRESENTATIVE IF SUCH DATA ADVERSELY EFFECTS THE OPERATION OF THE SYSTEM. SUCH NOTICE SHALL BE MADE IN WRITING PRIOR TO COMMENCING WITH ANY IRRIGATION INSTALLATION.
3. **UTILITIES:** VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SEE "GENERAL NOTES".
4. **SCHEMATIC CLARITY:** SYSTEM FEATURES ARE SHOWN SCHEMATICALLY FOR GRAPHIC CLARITY. INSTALL ALL PIPING AND VALVES IN COMMON TRENCHES WHERE FEASIBLE AND IN PLANTING AREAS WHENEVER POSSIBLE. ALL VALVES SHALL BE LOCATED IN GROUND COVER OR SHRUB AREAS INSTEAD OF LAWN AREAS WHERE POSSIBLE.
5. **CODES:** IRRIGATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND ORDINANCES AND THE MANUFACTURER'S SPECIFICATIONS. NOTIFY LANDSCAPE ARCHITECT BY TELEPHONE AND IN WRITING IF ANY CONFLICTS OCCUR PRIOR TO INSTALLATION.
6. **SLEEVES:** CONTRACTOR SHALL PROVIDE SLEEVES TWICE THE DIAMETER OF ALL MAIN AND LATERALS THAT OCCUR BENEATH PAVING, WALLS OR STRUCTURES. SLEEVES SHALL BE INSTALLED AT THE NECESSARY DEPTHS PRIOR TO PAVEMENT CONSTRUCTION. SLEEVES SHALL EXTEND 1'-0" FROM EDGE OF PAVING INTO LAWN OR PLANTING, AND SHALL HAVE ENDS CLEARLY MARKED ABOVE GRADE.
7. **BACKFLOW DEVICE:** SCREEN FROM VIEW WITH LANDSCAPING. REVIEW WITH OWNER'S REPRESENTATIVE IN FIELD.
8. **CONTROLLER:** INSTALL CONTROLLER 4'-0" ABOVE GRADE AND FASTEN SECURELY TO ENCLOSURE. ALL ABOVE GRADE CONDUIT SHALL BE RIGID STEEL, SECURELY FASTENED TO CONTROLLER.

0' 10' 20' 40'

North

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT MARK BARTOS No. C-34735 STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building.
Gault Elementary School

REVISION DATE

CONSULTANT

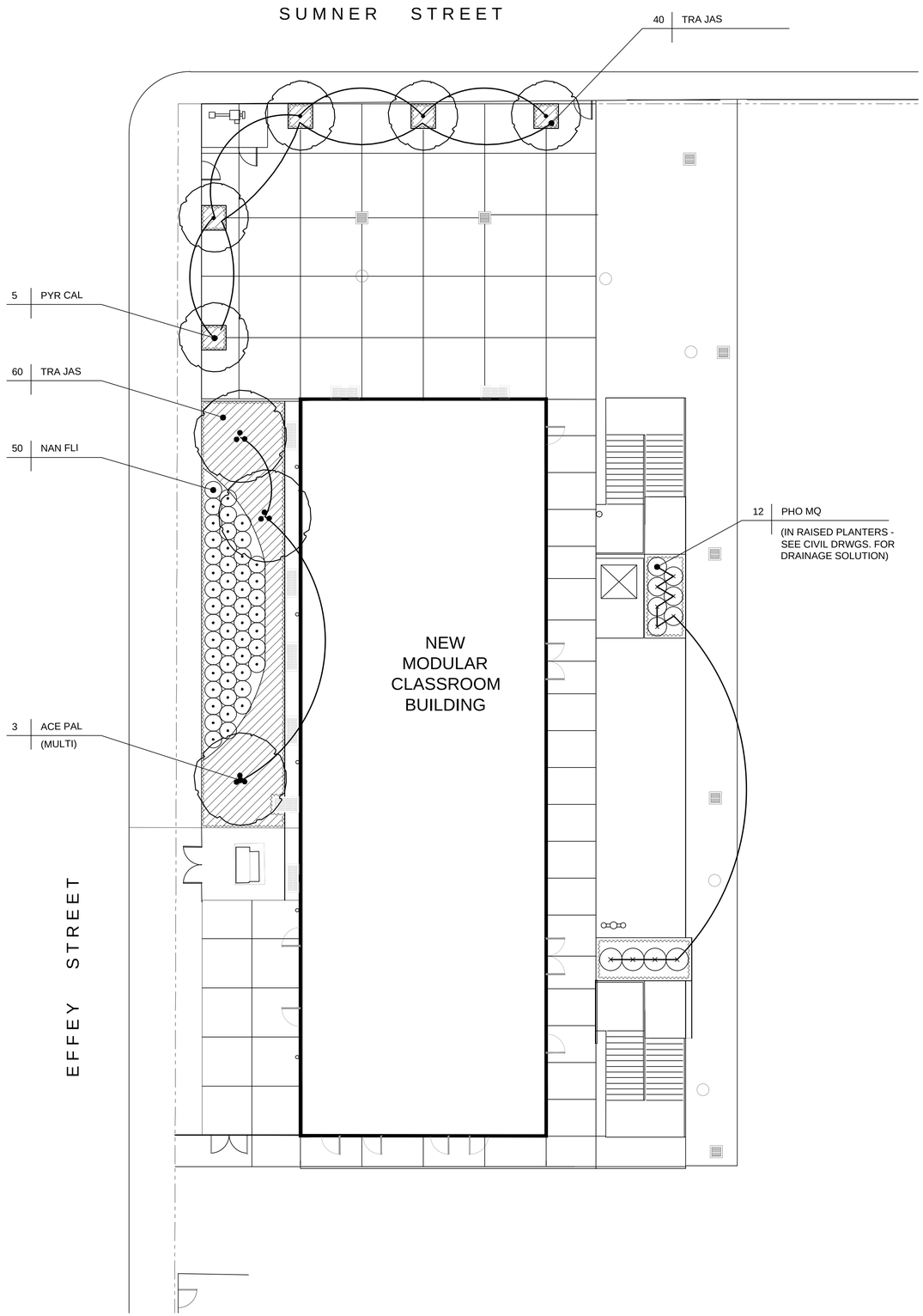
JOHN CAHALAN LANDSCAPE ARCHITECT
2050 Beavercreek Road
Suite 101-447
Oregon City OR 97045
t 503-631-8634 • m 408-656-2713
CA Reg. No. 2894

LICENSED LANDSCAPE ARCHITECT JOHN CAHALAN No. 2894 STATE OF CALIFORNIA
Signature
9/30/23
Renewal Date
6/6/2022
Date

6/21/2022

IRRIGATION PLAN

L-1.0



PLANT LIST

BOTANICAL/COMMON NAME:		SIZE:	QTY.:
TREES:			
ACE PAL	ACER PALMATUM “BLOODGOOD” (JAPANESE MAPLE)	36” BOX MULTI	3
PYR CAL	PYRUS CALLERYANA “ARISTOCRAT”, ARISTOCRAT PEAR	15 GAL. STD.	5
SHRUBS:			
NAN FLI	NANDINA “FLIRT” (HEAVENLY BAMBOO)	5 GAL.	50
PHO MQ	PHORMUIM HYBRID ‘MAORI QUEEN’ (HYBRID FLAX)	5 GAL.	12
TRA JAS	TRACHELOSPERMUM JASMINOIDES (STAR JASMINE)	1 GAL.	100

PLANTING NOTES

1. **ORGANIC AMENDMENT AND FERTILIZER REQUIREMENTS:** SEE “SOIL PREPARATION” SPECIFICATIONS ON THESE PLANS.
2. **IRRIGATION:** ALL PLANTING AREAS SHALL BE AUTOMATICALLY IRRIGATED.
3. **BARK MULCH:** ALL PLANTING AREAS SHALL RECEIVE A 3” LAYER OF NON-DYED, “MINI MULCH FIR BARK” AVAILABLE FROM LYNGSOGARDEN.COM, (650) 364-1730.

0' 10' 20' 40'

North

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT MARK BARTOS 31-31-22 STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building.

Gault Elementary School

REVISION DATE

CONSULTANT

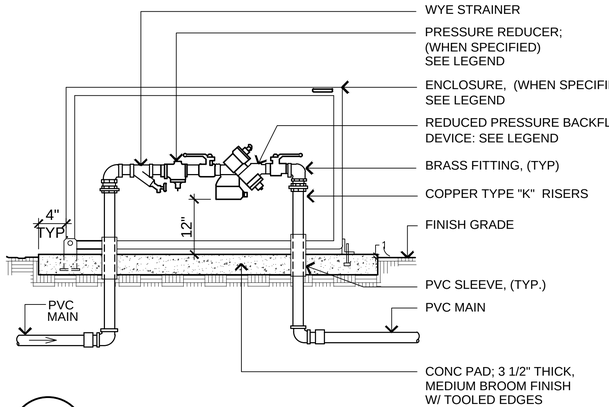
JOHN CAHALAN LANDSCAPE ARCHITECT
2050 Beavercreek Road
Suite 101-447
Oregon City OR 97045
t 503-631-8634 • m 408-656-2713
CA Reg. No. 2864

LICENSED LANDSCAPE ARCHITECT JOHN CAHALAN No. 2864 STATE OF CALIFORNIA
Signature 9/30/23
Renewal Date 6/6/2022
Date

6/21/2022

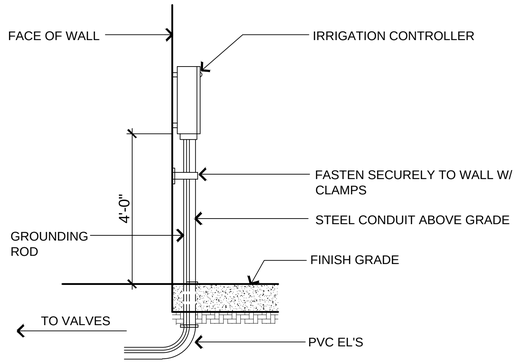
PLANTING PLAN

L-2.0



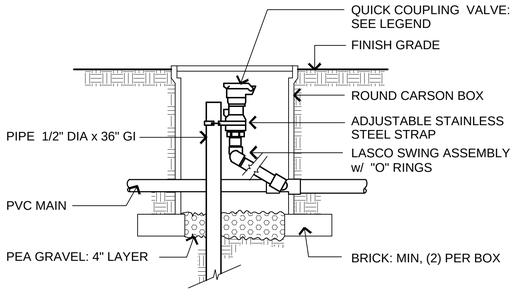
A L-3.0 **BACKFLOW PREVENTER**

NOT TO SCALE



B L-3.0 **WALL MOUNTED IRRIGATION CONTROLLER**

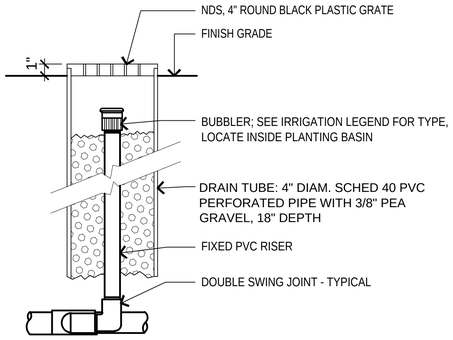
NOT TO SCALE



NOTES:
1. INSTALL QCV OFF-SET FROM MAIN
2. USE PERMATEX THREAD SEALANT, PART # 14 H (WHITE), ON ALL THREADED CONNECTIONS

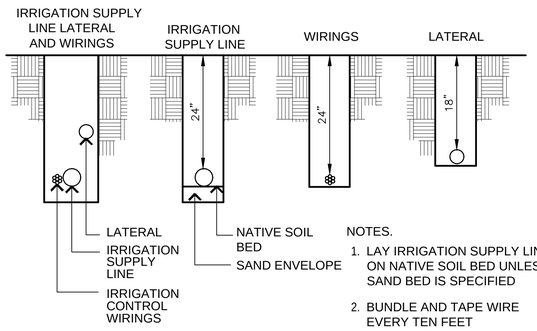
C L-3.0 **QUICK COUPLING VALVE**

NOT TO SCALE



D L-3.0 **TREE BUBBLER HEAD WITH IRRIGATION TUBE**

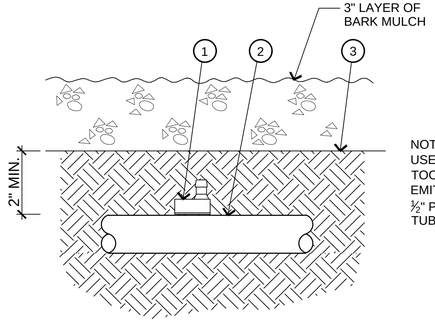
NOT TO SCALE



NOTES.
1. LAY IRRIGATION SUPPLY LINE ON NATIVE SOIL BED UNLESS SAND BED IS SPECIFIED
2. BUNDLE AND TAPE WIRE EVERY TEN FEET

E L-3.0 **TRENCHING**

NOT TO SCALE

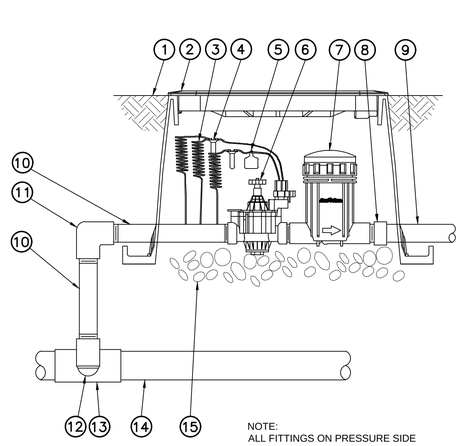


NOTE:
USE RAIN BIRD XERIMAN TOOL XM-TOOL TO INSERT EMITTER DIRECTLY INTO ½" POLYETHYLENE TUBING.

1. SINGLE-OUTLET BARB INLET X BARB OUTLET EMITTER: RAIN BIRD XERI-BUG EMITTER
2. 1/2" POLYETHYLENE TUBING: RAIN BIRD XF SERIES TUBING OR RAIN BIRD XT-700 XERI-TUBE OR RAIN BIRD XBS BLACK STRIPE TUBING
3. FINISH GRADE

F L-3.0 **XERI-BUG INTO 1/2-INCH TUBING**

NOT TO SCALE



NOTE:
ALL FITTINGS ON PRESSURE SIDE OF VALVE SHALL BE SCH 80.

1. FINISH GRADE/TOP OF MULCH
2. VALVE BOX WITH COVER: RAIN BIRD VB-STD
3. 30-INCH LINEAR LENGTH OF WIRE, COILED
4. WATERPROOF CONNECTION: RAIN BIRD DB SERIES
5. ID TAG
6. REMOTE CONTROL VALVE: RAIN BIRD 100-PGA (INCLUDED IN CZK-100-PRB-LC KIT)
7. PRESSURE REGULATING BASKET FILTER: RAIN BIRD PRB-100 (INCLUDED IN CZK-100-PRB-LC KIT)
8. PVC SCH 40 FEMALE ADAPTOR
9. LATERAL PIPE
10. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
11. PVC SCH 80 ELL
12. PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL
13. PVC SCH 80 TEE OR ELL
14. MAINLINE PIPE
15. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

G L-3.0 **XERIGATION CONTROL ZONE KIT**

NOT TO SCALE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT MARK BARTOS No. C-34735 STATE OF CALIFORNIA

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building.
Gault Elementary School

REVISION DATE

CONSULTANT

JOHN CAHALAN LANDSCAPE ARCHITECT
2050 Beavercreek Road
Suite 101-447
Oregon City, OR 97045
T 503-631-8634 • M 408-656-2713
CA Reg. No. 2864

LICENSED LANDSCAPE ARCHITECT JOHN CAHALAN No. 2864 STATE OF CALIFORNIA
Signature
9/30/23
Renewal Date
6/9/2022
Date

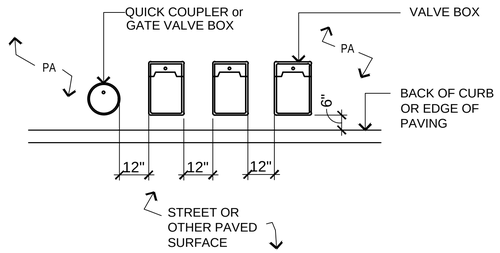
6/21/2022

IRRIGATION DETAILS

L-3.0

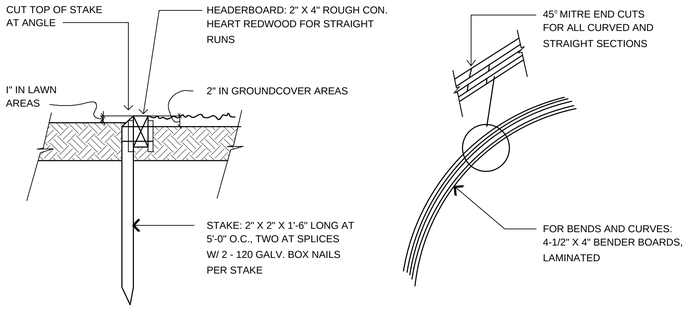
NOTES

1. ALL BOXES SHALL BE PARALLEL TO EACH OTHER AND PERPENDICULAR AND ADJACENT TO CURB
2. CENTER VALVE BOXES OVER REMOTE CONTROL VALVES TO FACILITATE SERVICING



A L-4.0 VALVE BOX INSTALLATION

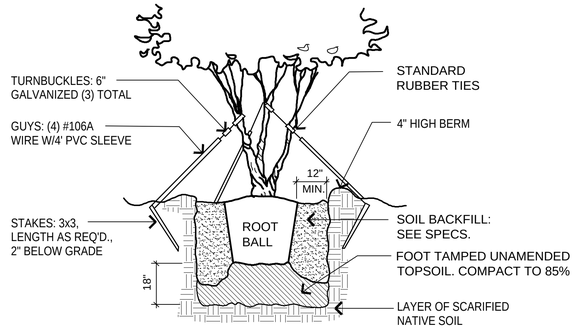
NOT TO SCALE



SECTION PLAN AT CURVE

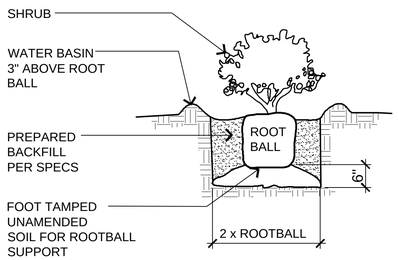
B L-4.0 HEADERBOARD

NOT TO SCALE



C L-4.0 TREE GUYING

NOT TO SCALE



D L-4.0 SHRUB PLANTING

NOT TO SCALE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

Santa Cruz City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular Classroom Building.

Gault Elementary School

REVISION DATE

CONSULTANT

JOHN CAHALAN LANDSCAPE ARCHITECT
2050 Beavercreek Road
Suite 101-447
Oregon City OR 97045
T 503-631-8634 • M 408-656-2713
CA Reg. No. 2864

Signature 9/30/23
Renewal Date 6/6/2022
Date

6/21/2022

PLANTING DETAILS

L-4.0

SECTION 02810 IRRIGATION

PART 1 - GENERAL

1.1 SCOPE

A. Work in this section includes installation of a complete automatic irrigation system, including excavation for points of connection, trenching, piping, equipment, electrical components, maintenance of the system, and incidentals related thereto.

B. Related work specified elsewhere:

1. Landscape Soil Preparation - Section 02920

1.2 QUALITY CONTROL

A. Standards: Unless otherwise shown or specified, all materials and methods shall conform to local codes.

B. Reviews: Contractor shall specifically request the following reviews prior to progressing with the work:

1. Layout of system
2. Points-of-connection excavation
3. Trenching and pipe assembly
4. Coverage adjustment of all heads, valve box installation
5. Operation of system

PART 2 - PRODUCTS

2.1 MATERIALS

A. Quality: All materials shall be new and the best quality available unless otherwise specified. All materials shall be clearly marked by manufacturer on all material, containers or certificates of contents for inspection.

B. Plastic Pipe and Fittings: All pipe unless otherwise noted shall be polyvinyl chloride schedule 40 (CS207-60), all solvent weld fittings, if used, shall be Schedule 40. Solvent for piping shall be as recommended by manufacturer. All pipe shall be clearly labeled with manufacturer type and specification numbers.

C. Control Wire: Type UF, 600 v. insulation, minimum size #14, copper, common ground white, U.L. approved for irrigation control use; splices shall be "Scotch-Lok" seal pack or equal with wire-nuts enclosed in resin-filled envelopes.

D. Valve Boxes: precast concrete or plastic of type and size indicated. Free of all cracks, chips or structural defects. Boxes subject to vehicular traffic shall be concrete and have heavy-duty steel covers.

E. Irrigation equipment: Refer to drawings. Any desired substitutions require submittals in duplicate for specific written approval.

F. Thread Sealant: Permatex Thread Sealant, part #14H, white in color.

PART 3 - EXECUTION

3.1 GRADING: Contractor shall be responsible for installing all irrigation features to their finished grade and at depths indicated. All rough grading shall be completed before trenching commences.

3.2 LAYOUT AND TRENCHING: All features of the irrigation system shall be staked and pipe alignments marked prior to trenching for review by the Owner's Representative.

3.3 BACKFILLING: Do not cover joints until system has been reviewed by the Owner's Representative. Backfill with damaging rocks and debris shall not be permitted. Compact all backfill and eliminate settlement. Previously prepared soil is to be replaced as the top six inches of backfill

3.4 FABRICATION: Snake pipe from side to side when trench exceeds thirty feet in length. All manifolds shall be neat, orderly and constructed for ease in maintenance operations. Construct manifolds to allow valve boxes to be parallel to each other and to adjacent walls, walks, curbs and buildings. Cuts and joints shall be free of burrs, smooth and minimum in quantity. All pipe above finish grade shall be galvanized unless noted otherwise.

3.5 PIPELINES: All pipelines shown parallel on the drawing may be installed in a common trench. Where pipelines are shown parallel or adjacent to shrub or groundcover areas, they shall be installed in these areas. Where shown parallel or adjacent to lawn areas versus pavement, they shall be installed in the lawn area. All changes in depth of pipe shall be accomplished using 45-degree fittings.

3.6 TESTING: Test all lines before backfilling for malfunctions. Test mains under pressure for at least three hours.

3.7 CONTROL WIRE: Install control wire in pipe trenches wherever practical. Tape to underside of pipe every ten feet. All splices shall be epoxy-coated. All wire shall be installed below or level with the bottom of adjacent pipes. All wiring above finish grade shall be enclosed in steel conduit. Splices shall be installed in junction boxes.

3.8 ADJUSTMENTS: Adjust all heads for arc, radius, riser height, and distribution for uniform and optimum coverage. Such adjustments shall include nozzle changes without additional cost to the Owner.

3.9 FINISH GRADE: Unless otherwise noted, all heads shall be set at finish grade and on double or triple swing joints as called for on drawings. The top of all valve boxes shall be flush with finish grade.

3.10 CONTROLLER: Contractor shall clearly label and sequence stations for ease in maintenance operations. Station valves to operate as they are located around the site. Fasten controller and wire conduits securely to wall with conduit clamps and screws. Contractor shall complete all forms and labels shipped with and/or attached to the controller; attach his own name, address and phone number to the controller via a permanent label; and shall properly execute and file with the County the controller and valve guarantees.

3.11 RECORD DRAWING: Contractor shall regularly update a print of the system and any changes made to the system throughout the project. Features below ground shall be indicated with at least two measurements from surface features such as walks, building or sprinkler heads. All changes shall be recorded on this plan before trenches are backfilled. The record drawing shall be completed and submitted to the Owner before final payment shall be made for work installed.

END OF SECTION 02810

SECTION 02920 LANDSCAPE SOIL PREPARATION

PART 1 - GENERAL

1.1 SCOPE

A. Furnish and install all landscape soil preparation as shown on the drawings and specified.

B. Related work specified elsewhere:

1. Irrigation – Section 02810
2. Planting - Section 02950
3. Landscape Maintenance – Section 02970

1.2 QUALITY CONTROL

A. Reviews: The Contractor shall request and obtain written approval from the Owner's Representative for the following milestones prior to beginning the next phase. Requests for review shall be made at least two business days prior to the review:

1. Rough grade establishment
2. Soil amendment completion
3. Finish grade

B. Certification: Written certificates stating quantity, type, and composition, weight and origin for all amendments and chemicals shall be delivered to the City's Representative before the material is used on the site.

C. Amendment Testing: Contractor shall provide a one-quart sample of each proposed amendment to a certified, independent soils testing laboratory for their testing for conformance to this specification. No material shall be delivered to the site until the Owner's Representative approves the materials. Testing costs shall be paid by the Contractor.

PART 2 – PRODUCTS

2.1 MATERIALS

A. Native Topsoil: Shall be the existing topsoil after all rocks over two cubic inches and all foreign debris have been removed.

B. Organic Fertilizers:

Blood Meal (12-0-0)

Feather Meal (12-0-0)

Steamed Bone Meal (3-15-0)

Potassium Sulfate (0-0-50)

These organic fertilizers are available from: Target Specialty Products, San Jose, or approved equal. http://www.target-specialty.com

PART 3 - EXECUTION

3.1 LIMITS AND GRADES

A. Contractor shall commence soil preparation only after rough grade approval as stated in paragraph 1.2 (A) above. Contractor shall complete the rough grading as necessary to round the top and toe of all slopes, providing naturalized contouring to integrate newly graded areas with the natural topography. Finish grading under this section shall be completed in accordance with the grades indicated on the landscape drawings.

3.2 PLANT PITS

A. All plant pits sides and bottoms shall be loosened to prevent glazed or compacted surfaces, and shall be prepared as shown on the planting detail.

3.3 BACKFILL AMENDMENTS

A. Only un-amended soil shall be used beneath the root ball. The Contractor shall cultivate the bottom of the plant pit to improve porosity. Backfill around sides of root ball shall be the amended native soil in the following amounts:

4 parts	Site Soil
1 part	Composted Greenwaste* (organic)

Uniformly blended with:

Amount per Cubic Yard of Backfill (Organic)

1/4 pound	Blood Meal (12-0-0)
2/3 pound	Feather Meal (12-0-0)
1/2 pound	Steamed Bone Meal (3-15-0)
1/2 pound	Potassium Sulfate (0-0-50)

Note: Backfill below 12" for the 24" box specimen tree(s) shall not contain the composted Greenwaste amendment, blood meal or feather meal but should still contain the steamed bone meal and potassium sulfate at the recommended rates.

3.4 FINISH GRADING

A. After approval of soil amendment, the Contractor shall establish finish grade for all irrigated planting areas unless otherwise noted, and shall remove all rocks and clods over one cubic inch to a depth of 4 inches. All areas shall be smooth and uniformly graded. All erosion damage during the construction period shall be repaired by the Contractor.

B. Unless otherwise noted, all soil finish grades shall be four-inches below (to allow for three-inch (net depth after settlement) mulch layer specified on the drawings) finish grade of walks, pavements and curbs.

END OF SECTION 02920

SECTION 02950 PLANTING

PART 1 - GENERAL

1.1 SCOPE

A. Furnish and install all container plantings, groundcover, staking, and related work thereto.

B. Coordinate and provide all services as required to contract grow plant material indicated on the drawings.

C. Related work specified elsewhere:

1. Irrigation - Section 02810
2. Landscape Soil Preparation - Section 02920
3. Landscape Maintenance - Section 02970

1.2 QUALITY CONTROL

A. Reviews: The Contractor shall specifically request the following reviews prior to progressing with the work:

1. Plant material approval
2. Plant layout
3. Finish grade
4. Substantial completion
5. Final completion

B. Submittals/Plant Material: Within five days after award of contract, Contractor shall submit notice to the Landscape Architect certifying the quantity and species of plant material ordered, the nursery supplying the material and any plant material unavailable at the time, and proposed schedule for growing same to be approved by the Owner's Representative.

C. Submittals/Sod ***(None required)***

D. Contract Growing: Contractor is advised that plant material specified is not subject to substitutions and that contractor shall contract grow or otherwise provide plant material as noted. If portions of plant material are unavailable, all other operations are to be completed within the time schedules outlined with a later single phase to be scheduled for completion several months later, with no change in contract amounts or payments.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Nomenclature and Labels: Plant botanical names shall conform to "Standardized Plant Names," second edition, and secondly, "A Checklist of Woody Ornamental Plants of California," Manual 32, University of California. All plants of each clone, species, and cultivar shall be delivered to the site labeled with their full botanical names. Every plant species shall be labeled with no less than one label for every ten plants of a species.

B Quality: Minimum quality of all plant material shall conform to prevailing published specifications of the California Association of Nurserymen and the American Association of Nurserymen unless otherwise indicated. Additional specifications shall be indicated on the drawings.

C. Quantities: the quantities shown on the plant list and in labels are for the Owner's Representative use and are not to be construed as the complete and accurate limits of the contract. Contractor shall furnish and install all plants shown schematically on the drawings. Any unlabeled plants shall be considered as the smaller size shown for that type on the drawings.

D. Root Systems: All container-grown stock shall be grown in its container for at least six months prior to its planting. Contractor shall allow one percent of the quantity of plants for removal and inspection. Any plant material, within one year following the final acceptance of the project, determined by the Owner's Representative to be defective, restricted, declining or otherwise deficient due to abnormal root growth, shall be replaced by Contractor, to the equal condition of adjacent plants, at the time of replacement.

E. Sod Lawn ***(None required)***

F. Trees: All trees shall have straight trunks of uniform taper, larger at the bottom. Trunks shall be free of damaged bark, with all minor abrasions and cuts showing healing tissue. Sucker basal growth and sucker lateral growth shall be removed and treated to eliminate re-sprouting. Normal lower side branching shall remain. Trees unable to stand upright without support shall be rejected

G. Health: Foliage roots and stems of all plants shall be of vigorous health and normal habit of growth for its species. All plants shall be free of all diseases, insect stages, burns, or disfiguring characteristics.

H. Untrue Species: All plant material, within two years following the final acceptance of the project, determined by the Owner's Representative to be untrue to the species, clone, and/or variety specified, shall be replaced by the Contractor, to the equal condition of adjacent plants at the time of replacement.

I. Chemicals: Shall be applied only as recommended by a pest control operator licensed by the State of California. The following chemicals are examples of brand names which must be verified by the pest control operator for each specific application:

pre-emergent herbicide	Treflan or equal
anti-desiccant	"Wilt-Pruf, formula NCF"

PART 3 - EXECUTION

3.1 GENERAL

A. Plant Material Approvals: Before planting operations commence, all plant material shall be reviewed by the Owner's Representative. Defective plants installed without such review shall be removed from the site upon request by the Owner's Representative and an acceptable plant substituted in its place.

B. Layout: Only those plants to be planted in any single day shall be laid out. Locations of all plants shall be reviewed prior to planting. Plants installed without this review shall be transplanted as directed by the Owner's Representative.

C. Protection of Plants: Contractor shall maintain all plant material in a healthy growing condition prior to and during planting operations. Contractor shall be responsible for vandalism, theft and damage to plant material until the commencement of the maintenance period.

D. Sod Installation ***(None required)***

E. Pruning: Contractor shall do no pruning without the specific approval of the Owner's Representative. Plants pruned without approval shall be replaced by the Contractor, if required.

F. Basins: Construct basins as necessary to water plants. Remove basins from all plants under a permanent irrigation system prior to final inspection and finish grade the planting area. Basins for plants to be hand-watered shall remain in place. Basin bottoms shall drain to berm away from plant stem.

G. Staking: All trees shall be staked as drawn with stakes driven securely into existing soil aligned with the trunk and perpendicular to the direction of the prevailing winds. A minimum of two figure eight wire and rubber tree ties required per stake.

H. Plant Pits, Backfill and Finish Grading: See SOIL PREPARATION section for materials and installation requirements.

I. Cleanup: After completion of all operations, Contractor shall remove all trash, excess soil and other debris. All walks and pavement shall be swept and washed clean, leaving the entire area in a neat, orderly condition.

J. Chemicals: Contractor shall verify compatibility, dosage and other application procedures with a licensed pest control operator and with the manufacturer and shall pre-test any and all chemicals at the site to verify total compatibility with proposed plantings and shall be responsible for any damages arising from the inappropriate use.

Herbicide:	Treat all groundcover and lawn areas 20 days after planting as required to obtain weed control.
Anti-desiccant:	Apply one or more application of anti-desiccant to plants immediately after arrival to the site and thereafter as required to minimize wind damage to plants.

END OF SECTION 02950

SECTION 02970 LANDSCAPE MAINTENANCE

PART 1 - GENERAL

1.1 SCOPE

A. Work in this section includes the growing and maintenance operations necessary to establish the trees, shrubs, ground cover, and other plantings; to provide pest and disease control; and to maintain the irrigation system and related construction elements.

B. Related work specified elsewhere:

1. Planting - Section 02950
2. Irrigation - Section 02810
3. Landscape Soil Preparation - Section 02920.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Fertilizer: Used during the course of the maintenance period shall be:

Blood Meal (12-0-0)	6 pounds per 1,000 square feet
Feather Meal (12-0-0)	14 pounds per 1,000 square feet

In the fall and spring, substitute a complete organic fertilizer such as a 5-5-5 applied at the manufacturer's label rate.

B. Water: During the course of construction and maintenance period shall be paid for by the Owner.

C. Pre-emergent Herbicide: Treflan or approved equal

PART 3 - EXECUTION

3.1 TIME LIMITS: The maintenance period shall commence from the date of substantial completion of planting as defined in paragraph 3.6 below, and extend for a ninety (90) calendar day period thereafter, or until the acceptance of Final Completion.

3.2 FERTILIZER APPLICATION: Fertilizer(s) shall be applied per Waypoint Analytical's recommendations. Initial application shall be fourteen (14) calendar days after planting and the second application shall be at seventy (70) calendar days thereafter.

3.3 HERBICIDE APPLICATION: Herbicide shall not be used until all plant material has been planted a minimum of 20-days. All planting areas shall be kept weed-free without herbicide use during this time period.

3.4 IRRIGATION SYSTEM: The Contractor shall be responsible for maintaining the irrigation system fully operational with regular system checks for proper head to head coverage, potential main or lateral leaks, damaged heads or clogged nozzles. The controller shall be programmed in accordance with the irrigation schedules indicated on the drawings. Any system break-downs that cannot immediately be repaired shall be reported to the Owner's Representative.

3.5 BASIC REQUIREMENTS: All planting areas shall be kept weed-free at all times during the maintenance period. All pest and disease control shall be the Contractor's responsibility. All planting areas shall be kept at optimum moisture for plant growth. Settlement of soil and plants and soil erosion shall be repaired and areas replanted as required. Dying or deficient plants shall be replaced as soon as they become apparent.

3.6 OWNER'S RESPONSIBILITY: Work installed under this contract that is damaged or stolen prior to Substantial Completion shall be repaired or replaced by the Contractor without cost to the Owner. After substantial completion and through the maintenance period, these damages and similar factors such as graffiti or other defacement shall be the Owner's responsibility to repair or replace and shall not be a part of this contract. No planting shall be guaranteed beyond the maintenance period, except as to conformance to specified species and variety, and except as to conditions specified under "Root Systems" of Landscape Planting, Section 02950.

3.7 SUBSTANTIAL COMPLETION: Shall be deemed as the time all major plantings, including sod and groundcover, are installed, and when all other work is satisfactorily completed (with the exception of minor items to be completed as noted upon a checklist compiled by the Owner's Representative). Maintenance period shall not commence until work is deemed substantially complete by the Owner and the Owner's Representative.

3.8 FINAL COMPLETION: Contractor shall request a final project review in writing at least five (5) business days in advance of the proposed date. Failure to request this notice

shall be automatically extend the Final Completion date. The maintenance period shall continue until Final Project Completion as approved by the Owner's Representative.

END OF SECTION 02970

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

BARTOS ARCHITECTURE
1730 S. AMPHLETT BLVD, SUITE 225
SAN MATEO, CALIFORNIA 94402
www.bartosarchitecture.com

LICENSED ARCHITECT
MARK BARTOS
RICHARD
C-34738
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Santa Cruz
City Schools
133 Mission Street
Suite 100
Santa Cruz, CA 95060

Gault Elementary
1320 Seabright Avenue
Santa Cruz, CA 95062

New Modular
Classroom Building.

Gault Elementary School

REVISION	DATE

CONSULTANT

JOHN CAHALAN
LANDSCAPE ARCHITECT
2050 Beavercreek Road
Suite 101-447
Oregon City OR 97045
T 503-631-8634 • M 408-656-2713
CA Reg. No. 2894

LICENSED LANDSCAPE ARCHITECT
JOHN CAHALAN
Signature
9/20/23
Renewal Date
6/6/2022
Date
STATE OF CALIFORNIA

6/21/2022

SPECIFICATIONS

L-5.0

American Modular Systems

SANTA CRUZ CITY SCHOOLS
GAULT ES
120'X40' 2-STORY MODULAR BUILDING

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2019

- 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC) - PART 1, TITLE 24, CCR)
- 2019 CALIFORNIA BUILDING CODE (CBC), VOLUME 1 & 2 - (PART 2, TITLE 24 CCR) BASED ON THE 2018 INTERNATIONAL BUILDING CODE WITH 2019 CALIFORNIA AMENDMENTS
- 2019 CALIFORNIA ELECTRICAL CODE (CEC) - (PART 3, TITLE 24, CCR) BASED ON THE 2017 NATIONAL ELECTRIC CODE WITH 2019 CALIFORNIA AMENDMENTS
- 2019 CALIFORNIA MECHANICAL CODE (CMC) - (PART 4, TITLE 24, CCR) BASED ON THE 2018 UNIFORM MECHANICAL CODE WITH 2019 CALIFORNIA AMENDMENTS
- 2019 CALIFORNIA PLUMBING CODE (CPC) - (PART 5, TITLE 24, CCR) BASED ON THE 2018 UNIFORM PLUMBING CODE WITH 2019 CALIFORNIA AMENDMENTS
- 2019 CALIFORNIA ENERGY CODE (CEC) - (PART 6, TITLE 24, CCR)
- 2019 CALIFORNIA FIRE CODE (CFC) - (PART 9, TITLE 24, CCR) BASED ON THE 2018 INTERNATIONAL FIRE CODE WITH 2019 CALIFORNIA AMENDMENTS
- 2019 CALIFORNIA GREEN BUILDING CODE (CGC) - (PART 11, TITLE 24, CCR)
- 2019 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)

PARTIAL LIST OF APPLICABLE STANDARDS

• NFPA 13	AUTOMATIC SPRINKLER SYSTEM	2016 EDITION
• NFPA 14	STANDPIPE AND HOSE SYSTEMS	2016 EDITION
• NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
• NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
• NFPA 20	STATIONARY PUMPS	2016 EDITION
• NFPA 24	PRIVATE FIRE MAINS	2016 EDITION
• NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA AMENDED) (NOTE: SEE UL. STANDARD 1971 FOR "VISUAL DEVICES")	2016 EDITION
• NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2015 EDITION
• NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015 EDITION

GENERAL NOTES

1. SUBSTITUTION OF PRODUCTS OR PROCESSES WHICH CHANGE THE STRUCTURAL SAFETY, FIRE & LIFE-SAFETY, OR ACCESSIBILITY OF THIS BUILDING SHALL BE SUBMITTED TO THE DSA AS AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT.
2. ELEVATOR AND ELEVATOR STRUCTURE IS REQUIRED BUT IS NOT PART OF THIS APPLICATION.
3. FIRE ALARM SYSTEM IS NOT PART OF THIS APPLICATION.
4. BUILDING APPROVED ONLY FOR OCCUPANCY "E" OR "B" OCCUPANCY "A" AT MPR PER SUPPLEMENTAL CALCS.
5. BUILDING EXITING IS BASED ON THE USE OR OCCUPANCY AND WILL BE REVIEWED AS SITE SPECIFIC.
6. TV BRACKET IS NOT PART OF THIS APPROVAL.
7. BUILDINGS LOCATED IN FIRE HAZARD SEVERITY ZONES PER WILDLAND URBAN INTERFACE FIRE AREAS (WUI) SHALL CONFORM TO CBC CHAPTER 7A. IS NOT APPROVED FOR WUI.
8. BUILDING IS NOT APPROVED TO HOUSE KINDERGARTEN, FIRST OR SECOND GRADE ABOVE THE FIRST STORY AND IN CONFORMANCE TO C.B.C. 452.1.4. NOT FOR USE IN SPECIAL HAZARD SUCH AS SCIENCE LAB AND VOCATIONAL SHOP OCCUPANCY.
9. SITE SPECIFIC PROJECTS INCLUDING THESE APPROVED BUILDING PLANS MUST BE SUBMITTED TO DSA FOR REGULAR PROJECT REVIEW AND MAY NOT BE SUBMITTED FOR OVER-THE-COUNTER (OTC) PLAN REVIEW.
10. THIS BUILDING REQUIRES AN AUTOMATIC FIRE SPRINKLER SYSTEM (AFSS) APPROVED BY DSA. THE FIRE SPRINKLER SYSTEM PLANS, FIRE FLOW TEST, UNDERGROUND PIPING SYSTEM, HYDRAULIC CALC'S, AND LOCAL FIRE SIGN OFF MUST BE PROVIDED WITH SITE SPECIFIC PROJECT. DESIGN AND PLANS FOR THE AFSS MAY NOT BE DEFERRED. (NOTE: SEE BUILDING DATA THIS SHEET FOR FIRE SPRINKLER SYSTEM WEIGHT INCLUDED IN BUILDING DESIGN)
11. THE MAXIMUM BUILDING SIZE/SQUARE FOOTAGE ALLOWED IN THIS MAY BE INCREASE AS PERMITTED BY SITE SPECIFIC FRONTAGE INCREASE PER CBC SECTION 506.2. WITHOUT AN INCREASE THE TOTAL ALLOWABLE SQ. FOOTAGE PER FLOOR (INCLUDING BUILDING, BALCONY, STAIRS AND ELEVATOR) MUST NOT EXCEED 9,000 FOR OCCUPANCY TYPE "B" AND 9500 FOR OCCUPANCY TYPE E.
12. THIS BUILDING PLAN SET INCLUDES PROVISIONS FOR BUILDING CONFIGURATIONS IN WHICH THE COMBINED ALLOWABLE AREA EXCEEDS THE MAX SQ. FT. (PER NOTE #11). THE SITE SPECIFIC PROJECT PLANS MUST IDENTIFY THE BUILDING CONFIGURATION AND FRONTAGE INCREASE, AND INCLUDE THE CALCULATIONS TO JUSTIFY THE COMBINED ALLOWABLE AREA INCREASE, FOR DSA APPROVAL.
13. A SEPARATE DSA APPLICATION NUMBER (SITE SPECIFIC JOB OR STOCKPILE) IS REQUIRED FOR DESIGN & ROOF-TOP INSTALLATION OF SOLAR PANEL SYSTEMS, ITS ANCHORAGE & SUPPORT STRUCTURE ABOVE THE ROOF FRAMING. THE ROOF FRAMING IS DESIGNED FOR SOLAR PANELS TO BE INSTALLED FLAT ON THE ROOF.
14. IF THE SITE IS NOT IN A MAPPED LIQUEFACTION HAZARD ZONE, IT MAY BE PRESUMED THAT NO LIQUEFACTION HAZARD EXISTS ON THAT SITE UNLESS A SITE-SPECIFIC GEOTECHNICAL REPORT IDENTIFIES SUCH HAZARD. FOUNDATIONS ARE NOT DESIGNED FOR LIQUEFIABLE SOILS.
15. THIS BUILDING IS NOT DESIGNED FOR FLOOD HAZARD AREAS. WHEN A SITE-SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED FROM A GEOTHECHNICAL ENGINEER IS NEEDED TO VALIDATE THAT THE ALLOWABLE SOIL VALUES SPECIFIED IN THE DRAWINGS ARE STILL APPLICABLE UNLESS THE BOTTOMS OF FOUNDATIONS ARE RAISED ABOVE THE DESIGN FLOOD ELEVATION, A VALIDATION LETTER FROM THE GEOTHECNICAL ENGINEER SHALL BE PROVIDED, EVEN IF THE PRESUMPTIVE LOAD-BEARING VALUES PER CBC SECTION 1806A.2 ARE USED. PROJECT SHALL BE EXEMPT FROM THE VALIDATION LETTER FOR PROJECTS LOCATED IN ZONE D (UNDEFINED) IF THE APPLICANT PROVIDES EVIDENCE FROM THE LOCAL JURISDICTION OR A QUALIFIED DESIGN PROFESSIONAL CONFIRMING THAT THE SITE IS NOT IN A FLOOD HAZARD ZONE. LOCATION OF ELECTRICAL ELEMENTS SHALL CONFORM TO THE AMERICAN SOCIETY OF CIVIL ENGINEERS.
16. THE PLACEMENT OF THE BUILDING(S) ON OR ADJACENT TO SLOPES SHALL COMPLY WITH THE 'FOUNDATION CLEARANCES FROM SLOPES' SPECIFICATIONS FOUND ON SHEET N2.0 OF THESE DRAWINGS.
17. BUILDING SHALL NOT BE PLACED OR BE RELOCATED IN AREAS HAVING A NOISE CONTOUR GREATER THAN OR EQUAL TO 65 CNEL, OR IN AREAS EXPOSED TO A NOISE LEVEL OF 65 dB L_{eq}-1-hr DURING ANY HOUR OF OPERATION WHEN NOISE CONTOURS ARE NOT READILY AVAILABLE, AS SPECIFIED IN CALGREEN CODE, SECTION 5.507.4.1 & 5.507.4.1.1.
18. THIS BUILDING IS NOT DESIGNED FOR SNOW LOADS.
19. THIS BUILDING IS NOT DESIGNED FOR ICE LOADS.
20. THE BUILDING MANUFACTURER SHALL LEAVE FOR THE BUILDING OWNER AT OCCUPANCY THE OPERATING INFORMATION FOR ALL APPLICABLE MECHANICAL AND ELECTRICAL FEATURES, MATERIALS, COMPONENTS AND DEVICES INSTALLED IN THE BUILDING RELATED TO EFFICIENT ENERGY USE. IN ADDITION, THE BUILDING MANUFACTURER SHALL LEAVE MAINTENANCE INFORMATION FOR ALL FEATURES, MATERIALS,COMPONENTS, AND MANUFACTURED DEVICES THAT REQUIRE ROUTINE MAINTENANCE FOR EFFICIENT OPERATION OF MECHANICAL EQUIPMENT AND LIGHTING SYSTEMS.
21. BUILDING SHALL BE MANUFACTURED IN COMPLIANCE WITH CFC 33 FOR FIRE SAFETY DURING CONSTRUCTION.

© 2020 BY AMERICAN MODULAR SYSTEMS, INC.

ALL OF THE DRAWINGS AND DETAILS CONTAINED IN THIS PACKAGE ARE THE INTELLECTUAL PROPERTY OF AMS AND MAY NOT BE USED FOR CONSTRUCTION OR DESIGN BY ANOTHER ENTITY WITHOUT THE EXPRESS WRITTEN PERMISSION OF AMS.

COPYRIGHT: © 2020 BY AMERICAN MODULAR SYSTEMS, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC, MECHANICAL, PHOTOCOPYING, RECORDING, OR OTHERWISE, WITHOUT THE PRIOR WRITTEN PERMISSION OF AMERICAN MODULAR SYSTEMS, INC. CERTAIN ELEMENTS CONTAINED IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMERICAN MODULAR SYSTEMS, INC. SHALL REMAIN THE SOLE PROPERTY OF AMERICAN MODULAR SYSTEMS, INC. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMERICAN MODULAR SYSTEM, INC.'S COPYRIGHT OR OTHER RESERVED INTELLECTUAL PROPERTY RIGHTS AND INTERESTS.

BUILDING DATA

OCCUPANCY	E
TYPE OF CONSTRUCTION	V-B WITH AN AUTOMATIC FIRE SPRINKLER FOR HEIGHT AND ONE STORY INCREASE
WIND LOAD ASCE 7-16 SECTION 28.5.3 SIMPLIFIED PROCEDURE	V = 106 MPH BASIC WIND SPEED EXPOSURE = C RISK CATEGORY III GC_{pi}=±0.18 K_{ZT} = 1.0 = 1.40 ROOF ANGLE = 1.2°
FLOOR LIVE LOAD (PSF)	UPPER FLOOR 50 GROUND FLOOR 50+15 & 100 (SEE 2.0 FOR LOCATIONS)
ROOF LIVE LOAD (MAX PSF)	20 (NOT REDUCIBLE)
SNOW LOAD	NOT CONSIDERED (SEE GENERAL NOTE #18 THIS SHEET)
ICE LOAD	NOT CONSIDERED (SEE GENERAL NOTE #19 THIS SHEET)
DESIGN DEAD LOADS (MAX PSF)	UPPER FLOOR ROOF: 26.0 UPPER FLOOR ROOF OVERHANGS: 25.0 UPPER FLOOR FLOOR: 46.0 GROUND FLOOR FLOOR: 50.0 EXTERIOR WALLS: 20.0 EXTERIOR WALLS @ ARCH'L BUMP-OUTS: 24.0 STAIRS: 40.0 SKYWALKS: 68.0 GROUND FLOOR ROOF: 21.0 BALCONY: 74.0 PARAPETS: 16.0 PARAPETS @ ARCH'L BUMP-OUTS: 20.0 INTERMEDIATE STAIR LANDINGS: 52.0 UPPER LANDINGS, NO SOFFIT: 52.0 UPPER LANDINGS, w/ SOFFIT: 64.0
FIRE SPRINKLER SYSTEM DESIGN WEIGHT @ ROOF (PSF)	1.5 PSF AT ROOF (SEE GENERAL NOTES #3 & #10 THIS SHEET)
SOLAR PANEL SYSTEM DESIGN WEIGHT @ ROOF (PSF)	3.0 PSF AT ROOF (INCLUDED IN DESIGN ROOF DEAD LOAD ABOVE) (SEE GENERAL NOTE #13 THIS SHEET)
DESIGN ALLOWABLE SOIL BEARING PRESSURE[a] (PSF)	BUILDING FOUNDATIONS: ~~1500;~~ 2000, ~~2500 & 3000~~ STAIR & SKYWALK FOUNDATIONS: 1500
FLOOD HAZARD AREA	BUILDINGNOT DESIGNED FOR FLOOD HAZARD AREA (SEE GENERAL NOTE #15 THIS SHEET)
RAIN INTENSITY (IN/HR)	3"
BUILDING AREA (SQ. FT.)	BUILDING: 4,800 SQ FT PER FLOOR BALCONY: 384 MIN. - 1,920 MAX. STAIRS: 135 MIN. - 295 MAX.
CLIMATE ZONE	1-16
STRUCTURAL SYSTEM	LIGHT MODULAR STEEL MOMENT FRAMES PER CBC SECTION 2212A
MODULES	12'x40' MODULES
FOUNDATION TYPE[a]	CONCRETE

SITE SPECIFIC OPTIONS

ROOFING	☐ 3" x 22 GA. STANDING SEAM	☐ BUILT-UP ROOFING	☒ SINGLE-PLY	
FLOOR DECK	3WxH DECK 3"x18 GA.			
FLOOR LIVE LOAD	UPPER FLOOR	50+15 PSF		
	GROUND FLOOR	☒ 50+15 PSF	☐ 150 PSF	
WALL STUDS	☐ WOOD (SEE S8.0-S8.1) ☐ WALL BUMP-OUTS (SEE S8.3-S8.4)	☒ LIGHT-GAUGE STEEL (SEE S9.0-S9.2) ☒ WALL BUMP-OUTS (SEE S9.3-S9.4)		
EXTERIOR WALL FINISH	☒ STUCCO	☐ SYNTHETIC STUCCO	☐ LAP SIDING	
PARAPET	☐ 3'-0" MAX HT. (SEE S4.2 OR S4.4)	☐ 4'-6" MAX HT. (SEE S4.3 & S4.3A OR S4.5 & S4.5A)	☐ (3) SIDED	☐ (4) SIDED
HVAC	☒ INTERIOR FLOOR MOUNTED	☒ EXTERIOR ROOF MOUNTED	☐ SPLIT SYSTEM	
CEILING HEIGHT	☐ 8'-6"	☒ 9'-0"		
FIRE SPRINKLERS	☒ (SEE GENERAL NOTES #10 THIS SHEET)			
REAR ROOF OVERHANG	☒ NO	☐ YES - LENGTH: (2'-0" MAX)		
SOLATUBE ON ROOF	☒ NO	☐ YES		
SOLAR PANELS	☒ NO	☐ YES (SEE GENERAL NOTE #13 THIS SHEET)		
WINDOW AWNINGS	☒ NO	☐ YES (SEE SHEET A7.1)		
STAIRS	LIVE LOAD = 100 PSF R=20 ΩO=1.25 Cd=2.5 ρ=1.3 I_e1.25 STEEL SPECIAL CANTILEVER COLUMN SYSTEM			
	☒ STAIR OPTION 1 (SWITCHBACK PER S11.1)	☐ STAIR OPTION 2 (STRAIGHT RUN PER S11.2)		
	STAIR WIDTH	☐ 5'-6"	☒ 6'-0"	☐ 6'-6"
	STAIR LANDING DECK	☒ 3WxH 3"x18GA.	☐ BH 1½"x18GA.	
STAIR UPPER LANDING	☐ NO	☒ YES	☐ SOFFIT PER S11.6	
SKYWALK (DECK)	LIVE LOAD = 100PSF R=2.50 ΩO=1.25 Cd=2.50 ρ=1.3 I_e =1.25 STEEL SPECIAL CANTILEVER COLUMN SYSTEM			
	☐ NO	☒ 3WxH 3"x18GA.	☐ NH 3"x18GA.	☐ BH 1½"x18GA.
LIQUEFIABLE SOILS	☐ NO	☐ YES (SEE GENERAL NOTE #14 THIS SHEET)		
GEOTECHNICAL & GEOHAZARD REPORT[(a)]	GEOTECHNICAL FIRM: MOORE TWINING ASSOCIATE, INC.			
	GEOTECHNICAL REPORT #: E95810.0 DATE: 02/12/21	GEOHAZARD REPORT #: E95810.0	DATE:02/12/21	
	ALLOWABLE SOIL BEARING CAPACITY (PSF)	DEAD LOAD:	DEAD + LIVE LOAD[(a)]: 2,000 LBS PER SQ FT	
		DEAD+LIVE+LATERAL LOAD[(a)]:		
	FOOTINGS DEEPER THAN 12" REQUIRED?	☐ NO	☐ YES - REQUIRED DEPTH:	
	FOOTINGS WIDER THAN 18" REQUIRED?	☒ NO	☐ YES - REQUIRED WIDTH:	
	OTHER FOUNDATION REQUIREMENTS:		☒ NO	☐ YES - EXLPLAIN:
BELOW GRADE CONCRETE MIX DESIGN	☐ DEFAULT CONCRETE MIX DESIGN FOR BELOW GRADE CONCRETE PER SHEET N1.0A.			
	☒ OPTIONAL SITE-SPECIFIC CONCRETE MIX DESIGN FOR BELOW GRADE CONCRETE PER SHEET N1.0A.			

SITE SPECIFIC WIND VALUES

SITE SPECIFIC BASIC WIND SPEED = 98 MPH WIND EXPOSURE = C

SITE SPECIFIC SEISMIC VALUES

SITE SPECIFIC S_S = 1.672 SITE SPECIFIC S_1 = 0.641 SITE CLASS[(a)] = D

Cs = 0.398 V_B = 386 k

BUILDING SEISMIC DESIGN CRITERIA

I_e = 1.25 T = 0.370_S R = 3.5 (OMF) RISK CATEGORY III
Ω_0 = 3.0 C_d = 3.0 ρ = 1.0 SEISMIC DESIGN CATEGORY: D (S_1 < 0.75)

MAXIMUM STORY DRIFT RATIO = 2.0% (I.E. MAX DRIFT = 0.020 x THE HEIGHT UNDER CONSIDERATION.)
LATERAL FORCE RESISTING SYSTEM: LIGHT MODULAR STEEL MOMENT FRAMES PER 2212A
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

NOTE:
PER CBC SECTION 1613A.2.3, S_{DC} (S_{ds0}) SHALL NOT BE TAKEN AS LESS THAN S_{DC} (S_{ds}).

NOTE:
COMPONENTS AND CLADDING DESIGNED FOR: α_{cs} = 1.50

FOOTNOTES:

(a) A GEOTECHNICAL REPORT AND GEOHAZARD REPORT IS REQUIRED PER 2019 CAC 4-317(e) AND 2019 CBC SECTION 1803A. THE GEOHAZARD REPORT MUST BE SUBMITTED TO CDS FOR ACCEPTANCE. DESIGN ALLOWABLE SOIL BEARING PRESSURE SHALL NOT BE GREATER THAN THE ALLOWABLE SOIL BEARING CAPACITY FOR THE DEAD + LIVE LOAD CONDITION REPORTED IN THE GEOTECHNICAL REPORT. ALL FOUNDATIONS DESIGNED USING BASIC ALLOWABLE STRESS LOAD COMBINATIONS PER CBC SECTION 1605A.3.1. THEREFORE A 1/3 INCREASE IN SOIL BEARING CAPACITY FOR LOAD COMBINATIONS THAT INCLUDE WIND OR SEISMIC LOADS IS NOT PERMITTED.

SEE SHEET TS2 FOR SHEET INDEX

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK STANDARD GAINES
No. C12637
Ren. 8-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
ANDREW PATRICK O'NEILL
No. C12637
Ren. 8-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	07/26/22
PROJECT NO:	1657-21

SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
TS

©XXXXX - Dibsy AP - 22X1 AP - 8X10 - 10/20/22 9:29 AM - K:\ams-files\Projects\000-099\099-099\099-21 Santa Cruz City Schools, Gault ES\PRE\1-MANUFACTURER\099-099-21 TITLE SHEET.dwg

American Modular Systems

SANTA CRUZ CITY SCHOOLS
GAULT ES
120'X40' 2-STORY MODULAR BUILDING

SHEET INDEX

ARCHITECTURAL

OPTIONS		SHEET NUMBER	SHEET TITLE
COVER SHEET		☒ TS	TITLE SHEET
SHEET INDEX		☒ TS.2	SHEET INDEX
		☐ D1	FORM DSA-103
GENERAL NOTES & SPECIFICATIONS		☒ N1.0	GENERAL NOTES & SPECIFICATIONS
		☒ N1.0A	BELOW GRADE CONCRETE MIX DESIGN REQUIREMENTS
		☒ N2.0	GENERAL NOTES & SPECIFICATIONS
		☒ N3.0	TYPICAL SCHEDULES-DOORS, WINDOWS, & FINISHES
		☒ N4.0	ACCESSIBILITY STANDARDS & DETAILS
		☐ N5.0	MULTIPLE FLOOR PLAN CONFIGURATIONS
		☐ N5.1	MULTIPLE FLOOR PLAN CONFIGURATIONS
		☐ N5.2	MULTIPLE FLOOR PLAN CONFIGURATIONS & SEPARATION DETAILS
ENERGY SHEETS & CALCULATIONS		☒ EN.1	ENERGY CALCULATIONS
		☒ EN.2	ENERGY CALCULATIONS
		☒ EN.3	ENERGY CALCULATIONS
		☒ EN.4	ENERGY CALCULATIONS
		☐ EN.5	ENERGY CALCULATIONS
		☐ EN.6	ENERGY CALCULATIONS
		☐ EN.7	ENERGY CALCULATIONS
		☐ EN.8	ENERGY CALCULATIONS
		☐ EN.9	ENERGY CALCULATIONS
		☐ EN.10	ENERGY CALCULATIONS
FLOOR PLANS		☒ A1.0	GROUND FLOOR PLAN
		☒ A1.1	UPPER FLOOR PLAN
		☐ A1.2	TYP. CLASSROOM PLAN w/ SOLATUBE OPTION
ROOF PLAN & DETAILS		☒ A2.0	ROOF PLAN
		☒ A2.1	TYPICAL ROOF DETAILS
		☒ A2.2	BUILDING SECTIONS
RESTROOM OPTIONS		☒ A3.0	RESTROOM FLOOR PLAN
		☐ A3.1	24'x40' RESTROOM PLAN OPTION
INTERIOR ELEVATIONS		☒ A4.0A	INTERIOR ELEVATIONS @ GROUND FLOOR
		☒ A4.0B	INTERIOR ELEVATIONS @ GROUND FLOOR
		☒ A4.0C	INTERIOR ELEVATIONS @ GROUND FLOOR
		☒ A4.0D	INTERIOR ELEVATIONS @ UPPER FLOOR
		☒ A4.1	INTERIOR ELEVATIONS @ RESTROOMS
		☐ A4.2	INTERIOR ELEVATIONS @ 24'x40' RESTROOM
EXTERIOR ELEVATIONS & ARCHITECTURAL DETAILS	STUCCO	☒ A5.0	TYPICAL EXTERIOR ELEVATIONS W/ STUCCO FINISH
		☒ A5.1	TYPICAL DETAILS FOR STUCCO EXTERIOR FINISH OPTION
		☒ A5.1A	DETERIORATION DETAILS - STUCCO FINISH
		☒ A5.1B	ARCHITECTURAL DETAILS
	DURATEMP 303 SIDING	☐ A5.2	TYPICAL EXTERIOR ELEVATIONS W/ DURATEMP SIDING
		☐ A5.3	TYPICAL DETAILS FOR DURATEMP EXTERIOR FINISH OPTION
		☐ A5.3A	DETERIORATION DETAILS GREATER THAN 2160 SQ.FT. - DURATEMP FINISH
	LAP SIDING	☐ A5.4	TYPICAL EXTERIOR ELEVATIONS W/ LAP SIDING OPTION
		☐ A5.5	TYPICAL DETAILS FOR LAP SIDING EXTERIOR FINISH OPTION
		☐ A5.5A	DETERIORATION DETAILS GREATER THAN 2160 SQ. FT. - LAP SIDING FINISH
	SYNTHETIC STUCCO	☐ A5.6	TYPICAL EXTERIOR ELEVATIONS W/ SYNTHETIC STUCCO OPTION
		☐ A5.7	TYPICAL DETAILS FOR SYNTHETIC STUCCO EXTERIOR FINISH OPTION
		☐ A5.7A	DETERIORATION DETAILS GREATER THAN 2160 SQ.F.T - SYNTHETIC STUCCO FINISH
MISCELLANEOUS DETAILS		☐ A7.1	ARCHITECTURAL EXTERIOR OPTIONS DETAILS
		☒ A7.2	MISCELLANEOUS ARCHITECTURAL DETAILS
		☒ A8.0	FIRE RATED CONSTRUCTION DETAILS
		☒ A8.2	HVAC CHASE & SHAFT DETAILS
		☒ A8.3	FIRE RATED CONSTRUCTION DETAILS
		☒ A8.4	FIRE RATED CONSTRUCTION DETAILS
		☒ A8.5	FIRE RATED CONSTRUCTION DETAILS

STRUCTURAL

OPTIONS		SHEET NUMBER	SHEET TITLE
STEEL MEMBER PROPERTIES		☒ S0.0	LIGHT GAUGE STEEL MEMBER PROPERTIES
FOUNDATION PLANS & DETAILS	CONCRETE	☒ S1.0	TYPICAL FOUNDATION PLAN
		☒ S1.0A	FOOTING SCHEDULES
		☒ S1.1	FOUNDATION DETAILS
		☒ S1.2	FOUNDATION DETAILS
		☒ S1.3	FOUNDATION DETAILS
		☒ S1.4	FOUNDATION DETAILS
FLOOR FRAMING PLAN & DETAILS		☒ S2.0	FLOOR FRAMING PLAN
		☒ S2.1	FLOOR FRAMING DETAILS
ROOF FRAMING PLAN & DETAILS		☒ S3.0	GROUND FLOOR ROOF FRAMING PLAN
		☒ S3.1	ROOF FRAMING DETAILS GROUND FLOOR
		☒ S4.0	UPPER FLOOR ROOF FRAMING PLAN
		☒ S4.0A	MANSARD ROOF FRAMING PLAN
		☒ S4.1	UPPER FLOOR ROOF FRAMING DETAILS
PAPAPET PLAN & DETAILS		☒ S4.2	MANSARD FRAMING WOOD FRAMES DETAILS
		☐ S4.3	4'-6" MAX WOOD FRAMED PARAPET DETAILS
		☐ S4.3A	4'-6" MAX WOOD FRAMED PARAPET DETAILS
		☐ S4.4	STANDARD 3'-0" MAX METAL STUD FRAMED PARAPET DETAILS
		☐ S4.5	4'-6" MAX. METAL STUD FRAMED PARAPET DETAILS
		☐ S4.5A	4'-6" MAX. METAL STUD FRAMED PARAPET DETAILS
BUILDING FRAMING ELEVATIONS & DETAILS		☒ S5.0	LONGITUDINAL MOMENT FRAME ELEVATIONS
		☒ S5.1	TRANSVERSE MOMENT FRAME ELEVATIONS
		☒ S5.2	MOMENT FRAME CONNECTION DETAILS
		☒ S5.3	MOMENT FRAME CONNECTION DETAILS
		☒ S6.0	BUILDING SECTIONS
		☒ S7.0	FOLDING WALL ATTACHMENT
WALL FRAMING	WOOD STUDS	☐ S8.0	WALL FRAMING ELEVATIONS - WOOD STUDS
		☐ S8.1	WALL FRAMING DETAILS - WOOD STUDS
		☐ S8.3	OPTIONAL WALL BUMP-OUTS - WOOD FRAMED DETAILS
		☐ S8.4	OPTIONAL WALL BUMP-OUTS - WOOD FRAMED DETAILS
		☒ S9.0	WALL FRAMING ELEVATIONS - METAL STUDS
		☒ S9.1	WALL FRAMING DETAILS - METAL STUDS
		☒ S9.2	WALL FRAMING DETAILS - METAL STUDS
		☒ S9.3	4" WALL BUMP-OUTS METAL FRAMES DETAILS
		☒ S9.4	OPTIONAL WALL BUMP-OUT - METAL FRAMED DETAILS
MISCELLANEOUS COMPONENTS		☒ S10.0	BALCONY FLOOR PLAN & DETAILS
		☐ S10.0A	FOOTING SCHEDULE
		☒ S11.0	STAIR RAILING & GUARDRAIL DETAILS
		☐ S11.1A	STAIR PLAN & ELEVATION - OPTION 1A
		☐ S11.1B	STAIR PLAN & ELEVATION - OPTION 1B
		☒ S11.1C	STAIR PLAN & ELEVATION - OPTION 1C
		☒ S11.1E	STAIR OPTION #1 (UNCOVERED SWITCHBACK STAIRS) FOUNDATION PLANS & DETAILS
		☐ S11.2A	STAIR PLAN & ELEVATION - OPTION 2A
		☐ S11.2B	STAIR PLAN & ELEVATION - OPTION 2B
		☐ S11.2C	STAIR PLAN & ELEVATION - OPTION 2C
		☐ S11.2E	STAIR OPTION #2 (UNCOVERED SWITCHBACK STAIRS) FOUNDATION PLANS & DETAILS
		☒ S11.6	UPPER LANDING FRAMING PLANS AND DETAILS
		☒ S11.7	STAIR DETAILS
		☐ S12.0	SKYWALK FRAMING PLANS & DETAILS
		☐ S12.1	SKYWALK FOOTING DETAILS

MECHANICAL

OPTIONS	SHEET NUMBER	SHEET TITLE
FLOOR PLANS	☒ M1.0A	REFLECTING CEILING PLAN - GROUND FLOOR
	☒ M1.0B	REFLECTING CEILING PLAN - UPPER FLOOR
	☒ M1.1A	MECHANICAL PLANS OPTIONS
	☒ M1.1B	MECHANICAL PLANS OPTIONS
	☐ M1.1C	TYPICAL MECHANICAL PLANS OPTIONS
	☐ M1.1D	TYPICAL MECHANICAL PLANS OPTIONS
	☐ M1.1E	TYPICAL MECHANICAL PLANS OPTIONS
	☐ M1.2	HVAC RESTROOM REFLECTED CEILING PLANS
	☐ M1.3	HVAC 24'x40' RESTROOM REFLECTED CEILING PLAN
DETAILS	☒ M1.4	HVAC & CEILING DETAILS
	☒ M1.5	CEILING & MECHANICAL DETAILS
	☒ M1.6	MECHANICAL ROOF DETAILS
	☐ M1.6A	MECHANICAL ROOF DETAILS
MISCELLANEOUS	☒ M1.7	CEILING NOTES, MECHANICAL NOTES & SCHEDULES

ELECTRICAL

OPTIONS	SHEET NUMBER	SHEET TITLE
FLOOR PLANS & DETAILS	☒ E1.0	GROUND FLOOR ELECTRICAL PLAN
	☒ E1.1	UPPER FLOOR ELECTRICAL PLAN
	☐ E1.2	ELECTRICAL RESTROOM FLOOR PLAN
	☒ E1.3	ELECTRICAL NOTES & DETAILS
	☒ E1.3A	ELECTRICAL PANEL SCHEDULES & NOTES

PLUMBING

OPTIONS	SHEET NUMBER	SHEET TITLE
FLOOR PLAN & DETAILS	☒ P1.0	RESTROOM OPTION PLUMBING PLANS & FIXTURE SCHEDULE
	☐ P2.0	24'x40' RESTROOM OPTION PLUMBING PLAN & FIXTURE SCHEDULE
	☒ P3.0	PLUMBING DETAILS & ACCESSIBLE DETAILS
	☒ P4.0	PLUMBING ISOMETRIC DRAWINGS

FIRE SPRINKLERS

OPTIONS	SHEET NUMBER	SHEET TITLE
FLOOR PLAN & DETAILS	☒ FS-1	FIRE SPRINKLER COVER SHEET
	☒ FS-2	FIRE SPRINKLER LAYOUT/ PIPING PLAN

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK RICHARD OLSEN
No. C40138
Ren. 3-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
KEVIN PATRICK GRANT
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
SHEET INDEX

SHEET NUMBER:
TS2

D:\XXXXX - 3 Dry\ AP - 20F & 40F - SAVED 6/7/2022 11:36 AM PLOTTED: 6/7/2022 11:36 AM - User:AnthonyPharris (MS:3999:999:3999:3999:10012) Name:Cut Only Bronze, Opal ES(PHS) (MMOP)(P00)01 - S2 - 119989 - TS2 - Cust ES - Sheet Index.dwg

SECTION 1 GENERAL REQUIREMENTS

1. GENERAL
   A. THE REQUIREMENTS OF THE GENERAL CONDITIONS OF THE AGREEMENT AND THIS GENERAL REQUIREMENT APPLY TO THE SEVERAL TRADE SECTIONS WITH THE SAME FORCE AS THOUGH FULLY REPEATED IN EACH TRADE SECTION.
   B. NAME BRANDS ARE INDICATED TO ESTABLISH A STANDARD OF QUALITY. ITEMS OF EQUAL OR BETTER QUALITY MAY BE SUBSTITUTED FOR THE LISTED BRAND NAMED PRODUCTS WITH THE WRITTEN APPROVAL OF D.S.A. AND THE RDPRC.
   C. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF TITLES 19 AND 24 CALIFORNIA CODE OF REGULATIONS, 2019 C.B.C. NO CHANGES SHALL BE MADE FROM D.S.A. APPROVED DRAWINGS OR SPECIFICATIONS WITHOUT PRIOR WRITTEN APPROVAL OF D.S.A. AND THE RDPRC.

2. SCOPE OF WORK
   A. THE WORK CONSISTS OF MANUFACTURING OFF-SITE IN A PLANT AND INSTALLING ON-SITE, MODULAR RELOCATABLE BUILDINGS AS DEFINED HEREIN AND SHOWN AND DETAILED ON DRAWINGS.
   B. ALL REQUIREMENTS OF TITLE 24 OF THE STATE OF CALIFORNIA, CODE OF REGULATIONS, RELATING TO INSPECTIONS AND VERIFIED REPORTS SHALL BE COMPLIED WITH AND SHALL INCLUDE:
      1. GENERAL RESPONSIBLE CHARGE OF FIELD ADMINISTRATION TO BE PROVIDED BY THE RDPRC.
      2. INSPECTION IN-PLANT DURING THE COURSE OF CONSTRUCTION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT. THE INSPECTOR SHALL BE RESPONSIBLE FOR AND APPROVED TO INSPECT THE GENERAL CONSTRUCTION WELDING, MECHANICAL, AND ELECTRICAL WORK. COST OF THESE INSPECTIONS SHALL BE BORNE BY THE SCHOOL DISTRICTS.
      3. ON-SITE INSPECTION OF THE BUILDING INSTALLATION ELECTRICAL AND UTILITY INSTALLATION OR CONNECTIONS BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT AND RETAINED BY THE SCHOOL DISTRICT.
      4. OTHER SPECIAL TESTS OR INSPECTIONS AS MAY BE REQUIRED BY THE DIVISION OF THE STATE ARCHITECT.
      5. ADDENDUMS SHALL BE SIGNED BY THE RDPRC & APPROVED BY D.S.A.
      6. CHANGES TO CONSTRUCTION DOCUMENT AFFECTING ACS, FLS & SSS SHALL BE SIGNED BY THE OWNER & THE RDPRC & APPROVED BY D.S.A. PRIOR TO COMMENCING WORK. CHANGES TO THE CONSTRUCTION COST ARE REPORTED TO D.S.A. USING FORM DSA-168 AT THE CONCLUSION OF THE PROJECT.
      7. THE TESTING LAB SHALL BE IN THE EMPLOY OF THE OWNER.
      8. ALL CONTRACTORS SHALL VERIFY ALL WORK CONDITIONS, DIMENSIONS AND DETAILS AND REPORT ANY OR ALL OMISSIONS AND DISCREPANCIES TO THE RDPRC/OWNER IMMEDIATELY BEFORE COMMENCING WORK.
      9. EACH CONTRACTOR TO BE RESPONSIBLE TO SEE THAT THEIR WORK CONFORMS TO ALL GOVERNMENTAL CODES WHETHER OR NOT SO STATED ON THE DRAWINGS.
      10. ALL MATERIALS AND WORKMANSHIP TO CONFORM TO THE LATEST REQUIREMENTS OF THE GOVERNING BUILDING CODES IN EFFECT AT TIME OF DSA APPLICATION.
      11. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED AND ERECTED PER MANUFACTURER'S DIRECTIONS AND INSTRUCTIONS.
      12. SHOP DRAWINGS MAY BE REQUIRED. IF SO, THEY WILL BE ACCURATELY DRAWN TO A LARGE ENOUGH SCALE TO SHOW ALL PERTINENT FEATURES OF THE ITEM AND ITS CONNECTION TO RELATED WORK.
      13. THE MANUFACTURER OF BUILDING IS TO PLACE TWO PERMANENT METAL IDENTIFICATION LABEL ON EACH MODULE, MECHANICALLY FASTENED TO THE FRAME SEE "GENERAL DESIGN REQUIREMENTS", SHEET N2.0. FOR PROJECTS MANUFACTURED OFF-SITE, THE PLANT INSPECTOR IS TO INDICATE THE MANUFACTURER'S NAME AND SERIAL NUMBER OF EACH MODULE ON THE VERIFIED REPORT AND D.S.A. APP. NUMBER.
      14. ALL TESTS AND INSPECTIONS REQUIRED BY DSA SHALL BE COMPLIED WITH. ALL TESTS REQUIRED BY FIRE AND LIFE SAFETY REGULATIONS SHALL BE BY A NATIONALLY RECOGNIZED TESTING LABORATORY.

SECTION 2 FOUNDATION

1. ALLOWABLE SOIL BEARING PRESSURE FOR FOUNDATION DESIGNS:
   A. BUILDING FOUNDATIONS PER S1.0 & S1.0A: DESIGNS FOR 1500 PSF, 2000 PSF, 2500 PSF OR 3000 PSF PER S1.0A. DESIGN ALLOWABLE SOIL BEARING PRESSURE PER SHEET S1.0A SHALL NOT BE GREATER THAN THE ALLOWABLE SOIL BEARING CAPACITY FOR THE DEAD + LIVE LOAD CONDITION REPORTED IN THE SITE-SPECIFIC GEOTECHNICAL REPORT.
   B. STAIR FOUNDATIONS PER S11.1E & S11.2E & SKYWALK FOUNDATIONS PER S12.1: DESIGNS BASED ON ALLOWABLE SOIL BEARING PRESSURE = 1500 PSF.
   C. ALL FOUNDATIONS DESIGNED USING BASIC ALLOWABLE STRESS LOAD COMBINATIONS PER CBC SECTION 1605A.3.1, THEREFORE A 1/3 INCREASE IN SOIL BEARING CAPACITY FOR LOAD COMBINATIONS THAT INCLUDE WIND OR SEISMIC LOADS IS NOT PERMITTED.
   D. A SITE-SPECIFIC GEOTECHNICAL REPORT IS REQUIRED.
2. FOOTINGS SHALL BE LOCATED ON UNDISTURBED, FIRM, NATURAL SOIL OR APPROVED COMPACTED FILL IN ACCORDANCE WITH THE SITE PROJECT GEOTECHNICAL REPORT.
3. WORK NOT INCLUDED:
   A. ALL ON-SITE OR OFF-SITE UTILITIES AND THE CONNECTION OF THEM TO THE BUILDING UNLESS INDICATED ON THE DRAWINGS.
   B. ALL LEVELING, GRADING OR OTHER SITE PREPARATION EXCEPT CONCRETE OR WOOD LEVELING STRIPS WHERE REQUIRED, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
   C. FIRE ALARM SYSTEM, PROGRAM BELL, PUBLIC ADDRESS SYSTEM, INTERCOM SYSTEM, TV, TELEPHONE SYSTEM, UNLESS OTHERWISE INDICATED ON THE DRAWINGS, OR MODIFIED BY CHANGE ORDER.
4. WHEELS AND HITCH SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
5. ACCESSIBILITY OF SITE: THE SCHOOL DISTRICT SHALL PROVIDE ACCESS TO THE SITE FOR THE INSTALLATION OF BUILDINGS. REMOVAL OF TREES, SHRUBS, FENCING, SPRINKLERS ETC. NECESSARY FOR THE MOVE-IN OF BUILDINGS SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.

SECTION 3 CONCRETE

1. CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-14.
2. THE MINIMUM 28 DAY STRENGTH AND TYPE OF CONCRETE SHALL BE AS FOLLOWS:
   BUILDING FOUNDATIONS..PER SHEET N1.0A (150 PCF)
   FOUNDATION VENTS & ACCESS WELLS....................PER SHEET N1.0A (150 PCF)
   STAIR, UPPER LANDING, & SKYWALK FNDNS...........PER SHEER N1.0A (150 PCF)
   CONCRETE OVER METAL DECK..................................3000 PSI (110 PCF)
3. THE MAXIMUM WATER TO CEMENT (W/C) RATIO SHALL BE PER SHEET N1.0A FOR FOUNDATIONS AND 0.45 FOR CONCRETE OVER METAL DECK SLABS.
4. CONCRETE SLUMP SHALL BE 4" ± 1" PRIOR TO ADDING ANY WATER REDUCING ADMIXTURES. CONCRETE SLUMP SHALL NOT EXCEED 8"± 1 ½" WHEN USING A WATER REDUCING ADMIXTURE.
5. CEMENT SHALL CONFORM TO ASTM C150. CEMENT TYPE SHALL BE PER SHEET N1.0A FOR FOUNDATIONS, TYPE I OR II FOR CONCRETE OVER METAL DECK SLABS.
   A. FLY ASH SHALL CONFORM TO ASTM C618 CLASS 'F' OR 'N' AND SHALL NOT EXCEED 25% CEMENT REPLACEMENT BY WEIGHT.
   B. SLAG CEMENT SHALL CONFORM TO ASTM C989, GRADE 100 OR 120 AND SHALL NOT EXCEED 50% CEMENT REPLACEMENT BY WEIGHT.
   C. COMBINATION OF FLY ASH & SLAG CEMENT SHALL NOT EXCEED 50% CEMENT REPLACEMENT BY WEIGHT.
6. CONCRETE AGGREGATES:
   A. NATURAL SAND AND ROCK AGGREGATES SHALL CONFORM TO ASTM C33.
   B. LIGHTWEIGHT AGGREGATE SHALL CONFORM TO ASTM C330.
   C. MAX AGGREGATE SIZE SHALL BE 1"±1/4" FOR NORMAL WT. CONCRETE EXCEPT 3/8" OR 1/2" MAX MAY BE USED FOR FOUNDATION VENTS & ACCESS WELLS.
   D. MAX AGGREGATE SIZE SHALL BE 3/8" OR 1/2" FOR LIGHT WT. CONCRETE.
7. REINFORCING SHALL CONFORM TO ASTM A615-GRADE 60, UNLESS OTHERWISE NOTED.

CONCRETE continued

8. CONCRETE COVER OVER REINFORCING STEEL SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON DRAWINGS:
   CONCRETE DIRECTLY AGAINST GROUND (EXCEPT SLABS) ....3"
   CONCRETE EXPOSED TO GROUND BUT PLACED IN FORMS ....2"
   SLABS (ON GROUND) ....POSITION IN CENTER OF SLAB
9. ALL BARS SHALL HAVE A CLASS B MINIMUM LAP SPLICE PER DETAILS 6 & 9/S1.4 AND SPLICES IN ADJACENT BARS SHALL BE STAGGERED, U.N.O.
10. REINFORCING BARS SHALL NOT BE WELDED UNLESS SPECIFICALLY DETAILED IN THE APPROVED DRAWINGS. BARS DETAILED TO BE WELDED SHALL BE ASTM A706 BARS AND WELDING ELECTRODES SHALL BE E80XX. WELDING SHALL CONFORM WITH AWS D1.4-2017 AND SHALL BE CONTINUOUSLY INSPECTED.
11. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 AND SHALL BE LAP SPLICED TWO SQUARES MINIMUM EACH DIRECTION.
12. NOTIFY THE RDPRC PRIOR TO PLACING CONCRETE.
13. CHEMICAL ADMIXTURES SHALL CONFORM TO ASTM C494.
14. AIR-ENTRAINING ADMIXTURE SHALL CONFORM TO ASTM C260.
15. NON-SHRINK GROUT: ASTM C1107, 5000 PSI MIN AT 7 DAYS.

SECTION 5 STEEL

1. GENERAL - ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC 360-16 AND TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS SECTION 2212A.1.2. A COPY OF TITLE 24 SHALL BE KEPT AT THE JOBSITE AT ALL TIMES.
   A. FABRICATION AND ERECTION SHALL COMPLY WITH AISC 360-16 CHAPTER 'M' AND AISC 341-16 CHAPTER 'I'.
2. WELDING - ALL WELDING DONE BY SHIELDED ELECTRIC-ARC OR FLUX CORED-ARC PROCESS COMPLYING WITH REQUIREMENTS OF THE "STRUCTURAL WELDING CODE" OF THE AMERICAN WELDING SOCIETY. WELDING DONE BY OPERATORS QUALIFIED BY TESTS ACCEPTABLE TO THE DIVISION OF THE STATE ARCHITECT. WELDING INSPECTION PER TITLE 24, PART 2, CCR, SECTIONS 1705A.2.5 WELDING ELECTRODE SHALL BE E70XX. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20FT-LBS AT ZERO DEGREES F AND COMPLYING WITH AWS D1.8-2016. SECTION 6.1.
3. STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE FOLLOWING:
   A. WIDE FLANGE BEAMS SHALL CONFORM TO ASTM A992, GRADE 50, TYP. U.N.O.
   B. STRUCTURAL STEEL CHANNELS SHALL CONFORM TO ASTM A572, GRADE 50 TYP. U.N.O. WHERE DRAWINGS SPECIFY 36 KSI MIN. CHANNELS MAY CONFORM TO EITHER ASTM A36 (36 KSI) OR ASTM A572, GR. 50.
   C. PIPE COLUMNS SHALL CONFORM TO ASTM A-53 WITH SULFUR CONTENT NOT EXCEEDING 0.05% TYP. U.N.O.
   D. STRUCTURAL STEEL TUBING (HSS) SHALL CONFORM TO THE FOLLOWING:
      1. STEEL MOMENT FRAME COLUMNS PER SHEETS S5.0 & S5.1: ASTM A1085.
      2. STAIR & LANDING COLUMNS PER SHEETS S11.1 & S11.7: ASTM A1085, TYP UNO.
      3. SKYWALK COLUMNS PER SHEETS S12.0 & S12.1: ASTM A1085, TYP UNO.
      4. ALL OTHER STRUCTURAL STEEL TUBING (HSS): ASTM A500 GRADE B OR C OR ASTM A1085, TYP UNO.
   E. STEEL PLATES, ANGLES, BARS AND MISC. SHAPES SHALL CONFORM TO ASTM A36 (36 KSI) TYP. U.N.O. WHERE DRAWINGS SPECIFY 50 KSI, STEEL SHALL CONFORM TO ASTM A572, GR. 50. NOTE: ASTM A572, GR. 50. MAY BE SUBSTITUTED FOR ASTM A36 (36 KSI).
1. ERECTION - STRUCTURAL STEEL ERECTED TRUE, STRAIGHT, PLUMB AND TO ITS DESIGNATED LOCATIONS. FIELD CONNECTIONS BOLTED OR WELDED AS INDICATED ON THE DRAWINGS.
2. NAILS, BOLTS, SCREWS AND NUTS, ETC. - FOR EXTERIOR WORK SHALL BE CADMIUM PLATED OR GALVANIZED.
   A. BOLTS FOR STRUCTURAL STEEL CONNECTIONS SHALL CONFORM TO ASTM A-307 UNLESS OTHERWISE NOTED. ALL HOLES FOR BOLTS THRU STEEL TO BE DRILLED, OR TORCHED PILOT HOLE AND REAMED TO DIAMETER OF BOLT +1/16" UNLESS OTHERWISE NOTED. NELSON STUDS (WELDED TO STEEL) MAY BE SUBSTITUTED FOR BOLTS SAME LENGTH AND DIAMETER.
   B. SEE "FASTENERS FOR ATTACHMENT TO STEEL" ON SHEET N2.0 FOR SHOT PINS & SCREWS.
6. HANDRAILS - FABRICATED, AS DETAILED, NON-FILLET WELDS GROUND SMOOTH.
7. SHOP PAINT
   A. EXPOSED STEEL COATED WITH ONE SHOP COAT OF RED OXIDE PRIMER.
   B. ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO APPLICATION OF SHOP COATS.
8. GALVANIZING
   A. APPLY ZINC COATING BY THE HOT-DIP PROCESS PER ASTM A123.
   B. WHERE GALVANIZING IS DAMAGED OR MISSING, REPAIR WITH GALVANIZING REPAIR PAINT PER ASTM A780.
   C. UNLESS NOTED OTHERWISE, GALVANIZE ALL UNPAINTED EXTERIOR STEEL THAT IS EXPOSED TO THE ELEMENTS.
9. TESTS
   A. PROVIDE MILL CERTIFICATES OR TEST ALL STEEL MEMBERS PER TITLE-24 PART 2, CCR SECTION 1705A.2 & 2202A.

SECTION 6 CARPENTRY

1. SCOPE OF WORK
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL CARPENTRY.
2. MATERIALS
   LUMBER GRADE MARKED IN ACCORDANCE WITH AN APPROVED GRADING AGENCY PER DOC PS20-05 INCLUDING "STANDARD GRADING AND DRESSING RULES NO. 17" OF WEST COAST LUMBER INSPECTION BUREAU, OR "WESTERN LUMBER GRADING RULES", LATEST EDITION OF WESTERN WOOD PRODUCTS ASSOCIATION. OSB OR PLYWOOD GRADE MARKED IN ACCORDANCE WITH PRODUCT STANDARD PS 1-09, PS 2-10, OR PRP-108 FOR SOFTWOOD OSB OR PLYWOOD, OF THE AMERICAN PLYWOOD ASSOCIATION (APA). EACH SHEET SHALL BEAR THE STAMP OF APA, PITTSBURGH TESTING, OR TECO. MOISTURE CONTENT SHALL NOT EXCEED 19%.
   A. JOISTS, HEADERS, PLATES, STUDS: DOUGLAS FIR S4S #2 OR HEM FIR S4S #2 MINIMUM, U.N.O. NOTE: MSR 1650 E1.5 MAY BE SUBSTITUTED FOR #2 GRADE IF IT MEETS THE STRUCTURAL REQUIREMENTS FOR FLOOR AND ROOF MEMBERS.
   B. PSL HEADERS: TRUS JOIST PARALLAM PSL BY WEYERHAEUSER (ICC ESR-1387) OR EQUIV. MEETING THE FOLLOWING STRUCTURAL PROPERTIES:

BEAMS $\leq$ 7" DEEP & COLUMNS	BEAMS $\geq$ 9¼" DEEP
F_b = 2400 PSI MIN.	F_b = 2900 PSI MIN.
F_v = 190 PSI MIN.	F_v = 290 PSI MIN.
E = 1.8E6 PSI MIN.	E = 2.0E6 PSI MIN.

   C. POSTS AND TIMBERS: DOUGLAS FIR S4S #1 OR HEM FIR S4S #1 MIN.
   D. BLOCKING: DOUG FIR #3, OR HEM FIR #3, OR STD. & BET.
   E. SILLS AND LUMBER & SHIM PLATES IN CONTACT WITH CONCRETE, MASONRY OR EARTH: DOUG FIR #2 OR HEM FIR #2 MIN. PRESSURE TREATED IN ACCORDANCE WITH CBC 2304.12.1. EACH PIECE SHALL BEAR AWPA STAMP. AWPA STANDARD U1 & T1 GROUND CONTACT, D.F. (OR H.F.) #2 ABOVE GROUND.
   F. MOISTURE BARRIER: KRAFT WATERPROOF BUILDING PAPER, OR 15 LB. FELT, CBC SECTION 1403.2. & ASTM D226, TYPE I.
   G. STUDS - S4S DOUG FIR #2 OR #2 HEM FIR. MAXIMUM MOISTURE CONTENT OF 19% AT TIME OF INSTALLATION.
   H. FASTENERS - EXTERIOR USE FASTENERS EXPOSED TO THE OUTSIDE ENVIRONMENT (INCLUDING FASTENERS USED FOR THE ATTACHMENT OF EXTERIOR WALL COVERINGS) SHALL BE CORROSION RESISTANT IN ACCORDANCE WITH C.B.C. SECTION 2304.10.1.1.
   I. BUILDING TRIM - 2x RESAWN SELECT D.F., H.F., OR CEDAR.
   J. DOOR/WINDOW TRIM - 1x4 RESAWN D.F., H.F., OR CEDAR.
   K. FRAMING CONNECTORS SHALL BE FROM SIMPSON CATALOG LATEST ED.
   L. FIRE BLOCKS SHALL CONFORM TO CBC SECTION 718.2
   M. ALL NAILS SHALL BE COMMON NAILS PER ASTM F1667 UNLESS OTHERWISE NOTED.
   N. ALL CUT ENDS AND HOLES IN PRESSURE TREATED LUMBER SHALL BE TREATED WITH "CUPRINOL".
   O. ALL BOLTS AND LAG SCREWS SHALL COMPLY WITH THE 2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (ANSI\AWC NDS-2018).

CARPENTRY continued

   P. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
   Q. HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER AND DEPTH AS THE SHANK. THE REMAINDER OF THE HOLE SHALL BE 40% TO 70% OF THE SHANK DIAMETER.
   R. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS AND NUTS WHICH BEAR ON WOOD.
3. WORKMANSHIP
   A. FRAMING - SECURELY NAILED, BRIDGED AND BLOCKED TO FORM RIGID STRUCTURE. WORK CUT, FITTED AND ASSEMBLED LEVEL PLUMB AND TRUE TO LINE. TRIM IN AS LONG LENGTHS AS POSSIBLE WITH ALL STANDING TRIM IN ONE PIECE. TRIM SEALED AT ALL EDGES.
   B. NAILING - IN ACCORDANCE WITH TITLE 24, CALIFORNIA BUILDING CODE, TABLE 2304.10.1.
   C. EXTERIOR WALLS - FACTORY FABRICATED. CAULKING PROVIDED BETWEEN PERIMETER OF WALL AND STRUCTURAL MEMBERS PROVIDING WEATHER-PROOF AND WATER-TIGHT SEAL. NECESSARY CLOSERS, SEALS, AND FLASHINGS PLACED AT TOP AND BASE SUPPORT OF PANELS AND AROUND OPENINGS.
   D. NAILS INTO P.T. LUMBER TO BE HOT DIPPED GALVANIZED.
   E. MACHINE APPLIED NAILING: USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE RDPRC AND THE DIVISION OF THE STATE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" OSB. IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.
   F. MOISTURE BARRIER - APPLIED TO STUDS WEATHER-BOARD FASHION, HORIZONTAL JOINTS LAPPED MIN 6" INCLUDING BUILDING CORNERS. SHEATHING APPLIED OVER MOISTURE BARRIER.
   G. TRIM SEALED AT ALL EDGES. SEALANT PAINTED TO MATCH TRIM OR SIDING UNLESS TRANSPARENT TYPE.

SECTION 7A SHEET METAL (NON-STRUCTURAL)

1. SCOPE OF WORK
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL INDICATED SHEET METAL.
2. MATERIALS
   A. SHEET METAL - STEEL SHEETS HOT DIP GALVANIZED WITH 1.25 OZ. PER SQUARE FOOT ZINC COATING CONFORMING TO ASTM A653 MINIMUM 26 GA. UNLESS OTHERWISE NOTED ON THE DRAWINGS.
   B. SOLDER - OF STAND, GRADE "A" OF EQUAL PARTS, ARD BRAND, LEAD AND TIN ASTM B32.
   C. FLUX - ZINC SATURATED MURIATIC ACID.
   D. GUTTERS: 26 GA. G-90 GALV. STEEL
      DOWNSPOUTS: 2"x3" CONVOLUTED 30 GA. G-90 GALV. STEEL
      GUTTER ENDCAPS: 26 GA. G-90 GALV. STEEL
      GUTTER CLIPS: 18 GA. G-90 GALV. STEEL
      FLASHING: 22 GA. G-90 GALV. STEEL U.O.N.
   E. FASTENERS:
      SELF-DRILLING OR SELF-TAPPING SHEET METAL SCREWS.
      LENGTH TO HAVE (3) EXPOSED THREADS MIN.
3. WORKMANSHIP
   SHEET METAL ACCURATELY FORMED TO DIMENSIONS AND SHAPES DETAILED WITH TRUE STRAIGHT LINES, CORNERS AND ANGLES. FLASHING INSTALLED IN LONGEST LENGTHS POSSIBLE. EXTERIOR WORK FORMED, FABRICATED AND INSTALLED SO THAT IT ADEQUATELY PROVIDES FOR EXPANSION AND CONTRACTION IN THE COMPLETED WORK AND FINISHES WATER AND WEATHER TIGHT. ALUMINUM SHALL BE SEPARATED FROM FERROUS METAL BY POLYETHYLENE TAPE OR FLOOD COAT OF ASPHALTIC PAINT.

SECTION 7B METAL ROOFING

1. SCOPE OF WORK
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL METAL ROOFING.
2. MATERIALS
   A. ROOF SHALL BE CONSTRUCTED OF MET-TILE PANELS PER 2019 CBC - 1504.3.1
   C. BASE MATERIAL SHALL BE No. 26 GA MSG MIN THICK COASTED STEEL. WIDTH 36" HEIGHT AND RIBS 1-1/2"
   D. SHEETS MAY BE PAINTED.
   F. CLIP ANGLES SHALL BE HOT-DIPPED GALVANIZED.
   G. FASTENERS SHALL BE EXTERIOR USE SCREWS WITH A CORROSION PROTECTIVE COATING PER THE "FASTENERS FOR ATTACHMENT TO STEEL" SECTION ON SHEET N2.0. ALL SCREWS USED FOR METAL ROOFING ATTACHMENT SHALL HAVE A NEOPRENE OR EPDM WASHER. FASTNERS USED TO ATTACH PANELS TO PLYWOOD DECK TO BE #9 x 1-1/2" LONG, SELF DRILLING, SELF TAPPING HEX WASHER HEAD PLATED SCREW, PLACED IN EVERY LOW FLUTE, 2' O.C.
3. MET-TILE PANEL ROOFING
   A. COMPLIES WITH 2019 CBC 1504.3.1 AND 1507.4 VIA BEING CLOSELY FITTED OVER PLYWOOD DECKING; TESTING UL 580 CLASS 90.
   B. 26 GA STUCCO EMBOSSED ASTM A792 (40 KSI STEEL) AZ50 - PAINTED.
   C. UL 263 & UL 790 CLASS A & C FOR FIRE RESISTANCE.
   D. UL 2218 CLASS 4 IMPACT RESISTANCE.
   E. STANDARD LENGTH PANELS: 2' TO 20'
   F. MINIMUM SLOPE WITH TAPE IS 1-1/2:12 AND WITHOUT TAPE IS 3:12

SECTION 7C SEALANT

1. SCOPE OF WORK
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL AND SERVICES TO SEAL BUILDINGS.
2. MATERIALS
   VULKEM SEALANT, POLYURETHANE, MANUFACTURED BY MAMECO INTERNATIONAL FOR ROOFS. "GEOCEL" SILICONIZED CAULK, GE, DUPONT, EAGLESEAL OR DAP FOR ALL OTHER APPLICATIONS, OR EQUAL.
   A. SEALANT V.O.C. LIMITS PER SCAQMD RULE 1168 (AS SHOWN IN TITLE 24, PART 11, TABLE 5.504.4.1 AND TABLE 5.504.4.2)
3. WORKMANSHIP
   SEALANT APPLIED TO DRY CLEAN SURFACES, WHEREVER INDICATED ON DETAILS AND AS NEEDED TO MAKE BUILDING WATERTIGHT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

SECTION 7D SINGLE-PLY ROOFING

1. SCOPE OF WORK
2. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL AND SERVICES TO INSTALL SINGLY-PLY OR BUILT-UP ROOFING. THE ROOFING SYSTEM SHALL WITHSTAND THE UPLIFT OF 100 MPH BASIC WIND SPEED.
3. MATERIALS
   MEMBRANE: PVC FILM LAMINATED TO BOTH SIDES OF A REINFORCEMENT FABRIC, OR EQUIV. - PROPRIETARY THERMOPLASTIC PVC FORMULATION OF RESINS, PLASTICIZERS, STABILIZERS, BIOCIDES, FLAME RETARDANTS, AND U.V. ABSORBENTS. CLASS B FIRE RATING.
   A. WOOD NAILERS MUST BE A #2 GRADE LUMBER, OR EQUIVALENT, TO SUBSTRATE.
3. WORKMANSHIP
   MEMBRANE APPLIED ON SUBSTRATES THAT ARE DRY, CLEAN, AND FREE OF FINS, SHARP EDGES AND LOOSE, FOREIGN MATERIALS, WHEREVER INDICATED ON DETAILS. AN INSULATION OR SLIP SHEET HAVING AN APPROVED FACER MUST BE USED WHEN ROOFING OVER ASPHALT OR COAL TAR ROOFS.

3. WORKMANSHIP
   MEMBRANE APPLIED ON SUBSTRATES THAT ARE DRY, CLEAN, AND FREE OF FINS, SHARP EDGES AND LOOSE, FOREIGN MATERIALS, WHEREVER INDICATED ON DETAILS. AN INSULATION OR SLIP SHEET HAVING AN APPROVED FACER MUST BE USED WHEN ROOFING OVER ASPHALT OR COAL TAR ROOFS.
4. TESTING:
   A. MEMBRANE SHALL BE DESIGNED TO PERFORM IN ALL TYPES OF WEATHER AND SHALL COMPLY TO ASTM D-2136 TESTING METHODS.
   B. MEMBRANE SHALL BE DESIGNED IN ACCORDANCE TO ASTM D-4434 "STANDARD SPECIFICATIONS FOR POLY (VINYL CHLORIDE) SHEET ROOFING" AND BE CLASSIFIED AS A TYPE IV, INTERNALLY REINFORCED SHEET.

SECTION 8 HOLLOW METAL DOORS AND FRAMES

1. SCOPE OF WORK
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL HOLLOW METAL DOORS AND FRAMES.
2. MATERIALS
   A. DOORS - INSULATED TYPE L FULL FLUSH, MANUFACTURED BY AMWELD MANUFACTURING COMPANY, 18 GA. 1-3/4" THICK PER CS242 MIN, REINFORCE FOR HARDWARE-BOTH FACES FOR CLOSER, SOUND DEADEN INTERIOR.
   B. FRAMES - 16 GA COLD ROLLED, 2" FACES, CS242 MIN. 3 ANCHORS PER JAMB + ADJUSTABLE FLOOR ANCHOR, EACH JAMB REINFORCE FOR HARDWARE. PROVIDE STRIKE BOX, PROVIDE SOUND DEADENING: 1/8" UNDERCOATING OR INSULATING FILL.
3. WORKMANSHIP
   ALL WORK FABRICATED IN SHOP TO REQUIRED PROFILES BY FORMING AND WELDING, WITH ARISES AND EDGES STRAIGHT, SHARP FIT FABRICATED ACCURATELY WITH SQUARE CORNERS, HAIRLINE JOINTS AND SURFACES FREE FROM WARP, WAVE, BUCKLE OR OTHER DEFECTS AFTER FABRICATION, DOORS AND FRAMES CLEANED THOROUGHLY, ALL WELDS GROUND SMOOTH AND GIVEN PRIME COAT.

SECTION 9A STUCCO (EXTERIOR PORTLAND CEMENT PLASTER)

LATHING AND PLASTERING MATERIALS AND ACCESSORIES SHALL BE MARKED BY THE MANUFACTURER'S DESIGNATION TO INDICATE COMPLIANCE WITH THE APPROPRIATE STANDARDS REFERENCED IN THIS SECTION AND STORED IN SUCH A MANNER TO PROTECT THEM FROM THE WEATHER, PER C.B.C 2507.1.

LATHING AND PLASTERING MATERIALS SHALL CONFORM TO THE STANDARDS LISTED IN C.B.C. TABLE 2507.2 AND CHAPTER 35, AND, WHERE REQUIRED FOR FIRE PROTECTION, SHALL ALSO CONFORM TO THE PROVISIONS OF CHAPTER 7.

GYPSUM BOARD AND GYPSUM PLASTER CONSTRUCTION SHALL BE OF THE MATERIALS LISTED IN C.B.C. TABLES 2506.2 AND 2507.2. THESE MATERIALS SHALL BE ASSEMBLED AND INSTALLED IN COMPLIANCE WITH THE APPROPRIATE STANDARDS LISTED IN TABLES 2508.1 AND 2511.1, AND CHAPTER 35 (PER 2508.1).

WATER-RESISTIVE BARRIERS SHALL BE IN ACCORDANCE WITH C.B.C. SECTION 2510.6. WATER-RESISTIVE BARRIERS SHALL BE INSTALLED AS REQUIRED PER SECTION 1404.2, AND WHERE APPLIED OVER WOOD-BASED SHEATHING, SHALL INCLUDE A WATER-RESISTIVE VAPOR-PERMEABLE BARRIER WITH A PERFORMANCE AT LEAST EQUIVALENT TO TWO LAYERS OF GRADE D PAPER.

EXCEPTION: WHERE THE WATER-RESISTIVE BARRIER THAT IS APPLIED OVER WOOD-BASED SHEATHING HAS A WATER RESISTANCE EQUAL TO OR GREATER THAN THAT 60-MINUTE GRADE D PAPER COMPLYING WITH ASTM E 2556, TYPE II AND IS SEPARATED FROM THE STUCCO BY AN INTERVENING, SUBSTANTIALLY NONWATER-ABSORBING LAYER OR DRAINAGE SPACE.

1. PLASTER NOTES: PLASTERING WITH CEMENT PLASTER SHALL NOT BE LESS THAN THREE COATS WHEN APPLIED OVER METAL LATH OR WIRE FABRIC LATH AND SHALL NOT BE LESS THAN TWO COATS WHEN APPLIED OVER MASONRY CONCRETE OR GYPSUM BACKING AS SPECIFIED IN SECTION 2510.5.
   A. THE FIRST COAT SHALL BE MIN. 3/8" THICK & APPLIED WITH SUFFICIENT MATERIAL AND PRESSURE TO FILL SOLIDLY ALL OPENINGS IN THE LATH. THE SURFACE SHALL BE SCORED HORIZONTALLY SUFFICIENTLY ROUGH TO PROVIDE ADEQUATE BOND TO RECEIVE THE SECOND COAT.
   B. THE SECOND COAT SHALL BE BROUGHT OUT TO MIN. 3/8" THICKNESS, RODDED AND FLOATED SUFFICIENTLY ROUGH TO PROVIDE ADEQUATE BOND FOR THE FINISH COAT. THE SECOND COAT SHALL HAVE NO VARIATION GREATER TO THAN 1/4 INCH (6.4 mm) IN ANY DIRECTION UNDER 5-FOOT STRAIGHT EDGE.
   C. THE FINISH COATS SHALL BE MIN. 1/8" THICK & APPLIED OVER BASE COATS THAT HAVE BEEN IN PLACE FOR THE TIME PERIODS SET FORTH IN ASTM C 926. THE THIRD OR FINISH COAT SHALL BE APPLIED WITH SUFFICIENT MATERIAL AND PRESSURE TO BOND TO AND TO COVER THE BROWN COAT AND SHALL BE OF SUFFICIENT THICKNESS TO CONCEAL THE BROWN COAT.

SECTION 9B PAINTS & COATINGS

1. SCOPE OF WORK.
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PAINT BUILDING. ALL EXPOSED SURFACES OF BUILDING AND RAMPS SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES, THRESHOLDS, AND ROOFING.
2. MATERIALS
   A. FOR EXTERIOR WOOD:

REF.BRAND	DUNN EDWARDS	KELLY MOORE	SHERWIN WILLIAMS	SINCLAIR
PRIMER	42-9M	1240	Y24W20	289-N
FINISH	QD-60-XX	1240-XXX	B54WZ102	GE2-NXX

   B. FOR INTERIOR TRIM:

REF.BRAND	DUNN EDWARDS	KELLY MOORE	SHERWIN WILLIAMS	SINCLAIR
FINISH	W450-XX	1650-XXX	A26W11	40XX

   C. FOR METAL:

REF.BRAND	DUNN EDWARDS	KELLY MOORE	SHERWIN WILLIAMS	SINCLAIR
PRIMER	43-4	1710	B50NZ6	15N
FINISH	10-XX	1700-XXX	B54WZ102	GE2-NXX

   D. INTERIOR PAINT & COATINGS SHALL COMPLY WITH TITLE 24, PART 11, "CAL-GREEN" SECTION 5.504.4.3, AND V.O.C. LIMITS PER TABLE 5.504.4.3.
3. WORKMANSHIP
   ALL EXPOSED SURFACES SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES, THRESHOLDS AND METAL ROOFING. MATERIAL SHALL BE OF THE GRADE SPECIFIED OR EQUAL.
   A. EXTERIOR WOOD SIDING, TRIM AND SKIRTING - FLAT OR SEMI-GLOSS LATEX. APPLY ONE COAT OF PRIME AND AT LEAST ONE FINISH COAT. PRIME COAT SHALL BE BRUSHED ON OR SPRAYED AND BACK BRUSHED INTO ALL GROOVES IN THE SIDING. IF NECESSARY, IN THE OPINION OF THE INSPECTOR, AN EXTRA COAT SHALL BE APPLIED TO ALL GROOVES SO THAT THE FINISH COAT WILL HAVE A UNIFORM APPEARANCE. ALLOW PRIME COAT TO DRY ACCORDING TO MANUFACTURER'S RECOMMENDATION. PRIME AND FINISH COATS SHALL BE COMPATIBLE AND MANUFACTURED BY THE SAME COMPANY.
   B. INTERIOR TRIM - TRIM NOT PRE-COATED SHALL BE PAINTED WITH TWO COATS OF SEMI-GLOSS LATEX OVER PRIMER.
   C. INTERIOR HARDWOOD CABINETS - TWO COATS LOW LUSTER POLYURETHANE FINISH. APPLY FIRST COAT THINNED WITH ONE QUART MINERAL SPIRITS PER GALLON. APPLY SECOND COAT AS RECOMMENDED BY MANUFACTURER.
   D. METAL - ALL METAL SURFACES SHALL BE PAINTED WITH TWO COATS OF ALKYD FINISH COAT OVER ZINC CHROMATE OR EQUAL RUST INHIBITING PRIMER.
   E. RAMP - ONE COAT OF FERROX NON-SLIP (0.8 MIN. C.O.F.) SURFACING AS MANUFACTURED BY AMERICAN ABRASIVE METALS OR COMPARABLE. ALL PAINTS OF THE TYPE INDICATED SHALL BE LISTED ON THE STATE OF CALIFORNIA QUALIFIED PRODUCTS LIST, OR EQUAL.
   F. SUBMIT ONE SET OF COLOR SAMPLES TO THE RDPRC FOR EACH PRODUCT TO ASSIST IN SELECTION.

SECTION 9C INTERIOR AIR QUALITY CONTROL

THE INTERIOR ENVIRONMENT SHALL BE ASSEMBLED WITH PRODUCTS THAT CONTRIBUTE TO A HEALTHY INDOOR AIR QUALITY (IAQ). THE FOLLOWING SHALL COMPLY TITLE 24, PART 11 ("CAL-GREEN"):
1. ADHESIVES, SEALANTS, CAULKS — SECTION 5.504.4.1
2. PAINTS, COATINGS — SECTION 5.504.4.3
3. AEROSOL PAINTS & COATINGS — SECTION 5.504.4.3.1
4. CARPET SYSTEMS — SECTION 5.504.4.4
   A. CARPET SHALL MEET CRI'S "GREEN LABEL PLUS" PROGRAM, NSF/ANSI '140 GOLD' LEVEL, OR OTHER APPROVED TESTING PER 5.504.4.4.
5. CARPET CUSHION OR PAD — SECTION 5.504.4.4.1
   A. CUSHION/PAD SHALL MEET THE CRI'S "GREEN LABEL" PROGRAM.
6. CARPET ADHESIVE — SECTION 5.504.4.4.2
   A. ADHESIVES SHALL MEET THE REQUIREMENTS OF TABLE 5.504.4.1.
7. COMPOSITE WOOD PRODUCTS — SECTION 5.504.4.5
   A. ALL COMPOSITE WOODS MUST NOT EXCEED THE FORMALDEHYDE LIMITS AS SPECIFIED IN ARB'S "AIR TOXICS CONTROL MEASURE" (17 CCR 93120), OR NON-EXEMPT MATERIALS PER TABLE 5.504.4.5.
8. RESILIENT FLOORING SYSTEMS — SECTION 5.504.4.6
   A. RESILIENT FLOORING SHALL BE CERTIFIED UNDER THE "FLOORSCORE" PROGRAM BY RFCI, COMPLY WITH CA-CHPS, OR OTHER APPROVED TESTING PER 5.504.4.6.
9. HVAC FILTER (MERV RATING OF 13 AND MINIMUM 2-INCH DEPTH) SECTION 5.504.5.3.1
   A. SEE SHEET M1.7 FOR HVAC FILTER REQUIREMENTS

SECTION 13 SITE ASSEMBLY

1. SCOPE OF WORK
   CONTRACTOR SHALL PROVIDE ALL LABOR MATERIALS AND SERVICES TO PREPARE THE BUILDING ELEMENTS, TRANSPORT THEM FROM THE PLANT TO THE SITE AND TO COMPLETE THE ASSEMBLY AT THE SITE. THE CONDITION OF THE SITE, SUCH AS DRAINAGE AND SOIL BEARING CAPACITY, SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT. UNLESS SPECIFICALLY CALLED FOR IN THE CONTRACT, STEPS, RAMPS, OR HANDRAILS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. ASSEMBLY OF ELEMENTS
   A. IN A LOCATION ON THE SITE AS DETERMINED BY THE SCHOOL DISTRICT, (APPROVED BY DSA) THE CONTRACTOR SHALL PLACE WOOD LEVELING STRIPS OR OTHER SUITABLE SUPPORTS AS DETAILED ON THE DRAWINGS.
   B. THE ELEMENTS SHALL BE BROUGHT TO THE SITE ON WHEEL ASSEMBLY AND TRANSFERRED TO THE PREPARED SITE. GREAT CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ELEMENTS BY RACKING OR BUMPING EACH OTHER.
   C. CONNECTION OF THE ELEMENTS TOGETHER SHALL BE DONE ACCORDING TO INSTRUCTION ON THE DRAWINGS. FLASHINGS, TRIM AND OTHER LOOSE ITEMS SHALL BE INSTALLED PER DETAILS ON THE DRAWINGS.

SECTION 23 AIR CONDITIONING

1. SCOPE OF WORK (SEE SHEET M1.7 FOR HVAC SPEC. AND NOTES)
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL THE AIR CONDITIONING SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFICATIONS, INCLUDING A/C UNITS AND ACCESSORIES, REMOTE THERMOSTAT, GRILLS AND POWER WIRING COMPLETE TO LOAD CENTER. CONTRACTOR SHALL INSTRUCT OWNER'S OPERATORS ON OPERATION AND MAINTENANCE OF A/C SYSTEM.
2. EQUIPMENT
   SEE NOTE ON FLOOR PLAN FOR SIZE AND TYPE.
3. WORKMANSHIP
   UNITS SHALL BE INSTALLED COMPLETE AND OPERATING WITH ALL ACCESSORIES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

SECTION 26 ELECTRICAL

1. SCOPE OF WORK
   A. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES FOR ELECTRICAL INSTALLATION COMPLETE WITH ASSOCIATED EQUIPMENT AND FIXTURES, IN OPERATING CONDITION READY FOR USE. THE WORK INCLUDES: LIGHT AND POWER SYSTEMS, LIGHTING FIXTURES COMPLETE WITH LAMPS, CONNECTIONS AND DISCONNECTS TO A/C EQUIPMENT, EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVACS).
   B. PROVIDE CONDUIT WITH PULL STRINGS AND JUNCTION BOXES FOR AUTOMATIC DETECTION FIRE ALARM SYSTEM AND NOTIFICATION PER NFPA 72.
2. MATERIALS
   ALL NEW COMPLYING WITH REQUIREMENTS OF CALIFORNIA ELECTRIC CODE AND NATIONAL FIRE PROTECTION ASSOCIATION.
   A. ELECTRIC METALLIC TUBING - COUPLING AND FLEX CONDUIT GALVANIZED OR SHERARDIZED. EXTERIOR FLEX-GALV. STEEL WITH FACTORY APPLIED P.V.C. JACKET.
   B. PANEL BOARDS - FLUSH MOUNTED.
   C. CONDUCTORS - COPPER, INSULATED FOR 600 VOLTS, TYPE THHN FOR SIZES #12 TO #6, TYPE THW FOR LARGER SIZES. MINIMUM SIZE-#14.
   D. RECEPTACLES - AS NOTED. +18" A.F.F. MIN. TO BOTTOM OF BOX
   E. CLOCK RECEPTACLE - AS NOTED.
   F. SWITCHES - AS NOTED. +48" A.F.F. MAX. TO TOP OF BOX
   G. LIGHTING FIXTURES - AS NOTED ON THE DRAWINGS.
3. WORKMANSHIP
   MATERIALS AND EQUIPMENT INSTALLED IN A SECURE, NEAT, WORKMANLIKE MANNER IN ACCORDANCE WITH CODE REQUIREMENTS. PANEL BOARD CARDS SHALL BE FILLED OUT. CONDUIT AND CABLE INSTALLED IN WALL AND CEILING SPACES. WORK PIERCING WATERPROOFED AREAS FLASHED AND SEALED TO A WATERTIGHT CONDITION. BUILDING CONDUIT/WIRING FROM FACE OF BUILDING TO SITE TERMINATION BY SITE CONTRACTOR (N.I.C.). (FLEXIBLE CONDUIT S-BEND SEALTITE).

INSPECTION

INSPECTION OF PREFABRICATED BUILDINGS IS DIVIDED INTO TWO SEPARATE FUNCTIONS:

1. IN-PLANT INSPECTION.
2. ON-SITE INSPECTION.

THE CONTRACTOR SHALL ALLOW UP TO SEVEN (7) DAYS FROM THE DATE OF PLAN APPROVAL TO OBTAIN AN IN-PLANT INSPECTOR APPROVED BY D.S.A.

IN-PLANT INSPECTION AND MATERIAL TESTING SHALL BE ACCOMPLISHED UNDER THE SUPERVISION OF THE DISTRICT ARCHITECT. THE CONTRACTOR SHALL NOTIFY THE DISTRICT ARCHITECT, DSA, AND THE DESIGNATED INSPECTOR/INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK. THE MANUFACTURER SHALL PROVIDE THE INSPECTOR WITH FULL ACCESS TO ALL PLANT OPERATIONS INVOLVING WORK UNDER THIS CONTRACT AND SHALL ADVISE THE INSPECTOR IN ADVANCE OF THE TIME AND PLACE OF OPERATIONS THAT THE INSPECTOR WANTS TO OBSERVE TAKE PLACE. BEFORE THE BUILDING(S) ARE REMOVED FROM THE PLANT FOR DELIVERY TO THE STORAGE FACILITY, OR FROM THE STORAGE FACILITY TO THE SITE, THE INSPECTOR SHALL DETERMINE THAT THEY ARE ACCEPTABLE AND ISSUE A WRITTEN RELEASE WHICH SHALL BE IN THE FORM OF A VERIFIED REPORT (FORM DSA 152-IPI).

A COPY OF THE INSPECTOR'S VERIFIED REPORT SHALL ACCOMPANY EACH BUILDING TO STORAGE OR TO THE SITE. THE INSPECTOR SHALL PUT ONE COPY IN EACH BUILDING.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

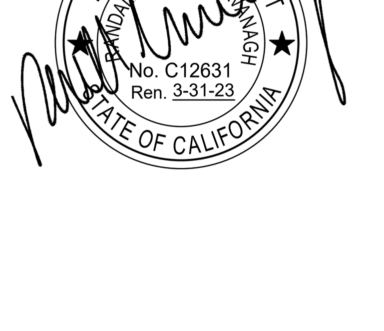
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

MANUFACTURER PROFESSIONAL OF RECORD



THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
GENERAL NOTES
&
SPECIFICATIONS

SHEET NUMBER:
N1.0

02-XXXXXX - 2-Story 48' - 228' x 40' - SAVED: 6/20/2022 4:45 PM PLOTTED: 6/21/2022 10:44 AM W:\Projects\1000-1999\1600-1699\1657-21 Santa Cruz City Schools- Gault ES\PRELIMINARY\DWG\02 - 02 - 119145 - N1.0 - Gault ES - General Notes.DWG

☒ **OPTIONAL SITE-SPECIFIC CONCRETE MIX DESIGN REQUIREMENTS FOR BELOW GRADE NORMAL WEIGHT CONCRETE [1]**
(MOST RESTRICTIVE REQUIREMENTS FROM EXPOSURE TABLES BELOW)

BELOW GRADE CONCRETE ELEMENT	MAXIMUM W/C RATIO	MINIMUM 28-DAY STRENGTH (f'_c) (PSI)	CEMENTITIOUS MATERIALS (CEMENT TYPE PER ASTM C150)	MAX AGGREGATE SIZE (IN)	TARGET AIR CONTENT (%)	MAXIMUM WATER-SOLUBLE CHLORIDE ION (Cl^-) CONTENT IN CONCRETE, PERCENT BY WEIGHT OF CEMENT
FOUNDATIONS [2]	0.55	3500	TYPE: I or II	1" ± ¼"	N/A	0.30
BUILDING FOUNDATION VENTS & ACCESS WELLS	0.55	3000	TYPE: I or II	3/8"	N/A	0.30
				1/2"	N/A	
				1" ± ¼"	N/A	

[1] PROPORTIONING OF CONCRETE MIXTURES SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION 26.4.3.
DOCUMENTATION OF CONCRETE MIXTURE CHARACTERISTICS SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION 26.4.4.
CEMENT SHALL BE CERTIFIED PER TITLE 24, PART 2, SECTION 1910A.1.
SEE CONCRETE NOTES ON SHEET N1.0 FOR ADDITIONAL REQUIREMENTS.

[2] FOUNDATIONS CONSERVATIVELY DESIGNED FOR A MIMINUM 28-DAY CONCRETE STRENGTH OF 3,500 PSI.

SHEET NOTES:
1. NOT USED
2. NOT USED
3. NOT USED
4. SITE-SPECIFIC CONCRETE MIX DESIGN REQUIREMENTS, THE REPORT IS REFERENCED ON THE COVER SHEET OF THIS DRAWING PACKAGE.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK RICHARD LAMBERT
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
ANDREW PATRICK O'HANLON
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION
UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
BELOW GRADE CONCRETE MIX DESIGN REQUIREMENTS

SHEET NUMBER:
N1.0A

05-XXXXX 2-Story-4F 238' x 64' (GAULT) 6/2/2022 8:49 AM PLOTTED 6/2/2022 9:44 AM W:\Projects\05-3XXX\05-3XXXX\05-3XXXX-21 Santa Cruz City Schools_Gault (ELEMENTARY)\CD\N1.0 - 119104 - N1.0A - Gault ES - General Notes.dwg

COORDINATION OF WORK

THE CONTRACTOR IS RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS WITH THE SCHOOL DISTRICT AUTHORIZED REPRESENTATIVE FOR ACCESS TO GROUNDS AND REMOVAL OF EQUIPMENT, IF NECESSARY. THIS CONTACT SHALL BE MADE AT LEAST 48 HOURS PRIOR TO DELIVERY OF ANY MODULE. ON-SITE INSPECTION SHALL BE DONE BY THE SITE INSPECTOR. ALL WORK WHICH THE MANUFACTURER OR HIS SUBCONTRACTORS PERFORM AT THE SITE SHALL BE SUBJECT TO THE INSPECTION OF THE SITE INSPECTOR. THE MANUFACTURER WILL FURNISH THE SITE INSPECTOR WITH SUCH INFORMATION AS MAY BE NECESSARY TO KEEP HIM FULLY INFORMED AS TO PROGRESS OF WORK AND DATES WHEN SITE WORK WILL OCCUR. THE CONTRACTOR SHALL NOTIFY THE INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK.

THE CONTRACTOR SHALL VERIFY THAT THE DISTRICT'S SITE IS READY TO RECEIVE THE CLASSROOM(S) PRIOR TO THE DELIVERY OF ANY CLASSROOM(S) BY VISITING EACH SITE (THIS MAY BE DONE BY THE INSPECTOR).

MATERIALS AND WORKMANSHIP

1. ALL CONTRACTORS SHALL CERTIFY THAT NO ASBESTOS-CONTAINING BUILDING MATERIALS WHICH EXCEED STATE AND FEDERAL MANDATED SAFE ASBESTOS LEVELS HAVE BEEN USED IN THE CONSTRUCTION OF RELOCATABLE FACILITIES.
2. ALL WORKMEN SHALL BE SKILLED AND QUALIFIED FOR THE WORK WHICH THEY PERFORM. ALL MATERIALS USED, UNLESS OTHERWISE SPECIFIED, SHALL BE NEW AND OF THE TYPES AND GRADES SPECIFIED. THE CONTRACTOR SHALL, IF REQUESTED, FURNISH EVIDENCE SATISFACTORY TO THE RDPRC THAT SUCH IS THE CASE.
3. CONTRACTOR'S CREWS ASSIGNED TO ANY WORK PERFORMED UNDER THIS CONTRACT SHALL INCLUDE ONE COMPETENT AND FULLY EXPERIENCED PERSON DESIGNATED AS THE RESPONSIBLE PERSON IN CHARGE. SUCH PERSON MUST BE IDENTIFIED BY NAME TO THE DISTRICT IN ADVANCE OF ANY WORK. UPON REQUEST, THE CONTRACTOR SHALL PROMPTLY FURNISH TO THE DISTRICT INFORMATION RELATING TO THIS EMPLOYEE'S EXPERIENCE.
4. WORKMANSHIP SHALL BE EQUAL OR BETTER IN QUALITY TO THAT REQUIRED BY THE CONSTRUCTION TRADES FOR A FINISHED PRODUCT. A QUALITY CONTROL SUPERVISOR, DESIGNATED BY THE MANUFACTURER, SHALL REVIEW ALL WORK IN PROGRESS AND SHALL REVIEW THE FINISHED BUILDING PRIOR TO FINAL INSPECTION TO ASSURE IT IS COMPLETE AND CORRECT. THE QUALITY CONTROL SUPERVISOR SHALL HAVE THE AUTHORITY TO HAVE MATERIALS REPLACED AND WORK REDONE IN ORDER TO CORRECT FAULTY MATERIALS OR WORKMANSHIP.

GENERAL DESIGN REQUIREMENTS

1. UP TO TWENTY (20) MODULES (PER LEVEL), APPROXIMATELY 12'x40', DESIGNED SO THAT FOUR (4) OR MORE MODULES (PER LEVEL) MAY BE JOINED TOGETHER TO FORM A COMPLETE STRUCTURE, TO MAINTAIN A POSITIVE ALIGNMENT OF FLOORS, WALLS, AND ROOF, AND TO PERMIT SIMPLE NON-DESTRUCTIVE DETACHMENT FOR FUTURE RELOCATION.
2. EACH MODULE SHALL BE PERMANENTLY IDENTIFIED WITH (2) IMPRINTED (STAMPED, NOT ENGRAVED) METAL IDENTIFICATION TAGS 3"x1-1/2" MINIMUM SIZE WITH THE FOLLOWING INFORMATION:
   A. MANUFACTURER'S NAME AND BUILDING SERIAL NUMBER.
   B. DESIGN WIND SPEED / EXPOSURE
   C. DESIGN SEISMIC S_{DS} VALUE
   D. DESIGN ROOF LIVE LOAD & SNOW LOAD.
   E. DESIGN FLOOR LIVE LOAD
   F. D.S.A. APPLICATION NUMBER
3. 2-TAGS PER MODULE: ONE ON EXTERIOR, AND ONE ON MODULE BEAM AT FRONT OF BUILDING ABOVE CEILING.
4. EACH MODULE SHALL BE CAPABLE OF RESISTING ALL VERTICAL AND LATERAL LOADS DURING TRANSPORTATION AND RELOCATION. (NORMAL INDUSTRY PRACTICE FOR BRACING MODULES DURING TRANSPORTATION AND RELOCATIONS IS ACCEPTABLE.) WHEN MODULES ARE ASSEMBLED JOINTS SHALL BE SEALED WITH REMOVABLE CLOSING STRIPS OR OTHER METHOD TO PRESENT A FINISHED APPEARANCE AND BE PERMANENTLY WATERPROOF.
5. EACH MODULE SHALL BE SUFFICIENTLY RIGID TO BE JACKED UP AT THE FRONT AND BACK CORNERS FOR RELOCATION WITHOUT DAMAGE OR THE MODULE SHALL HAVE LIFT LUGS AT FRONT AND BACK LOCATED AS REQUIRED SO THAT THE MODULE MAY BE JACKED UP FOR RELOCATION IN ONE PIECE WITHOUT ADDITIONAL SUPPORTS OF ANY TYPE. EVIDENCE OF EXCESSIVE BOWING DURING THE INSTALLATION OF THE MODULES WHICH, IN THE OPINION OF THE RDPRC, CAUSES EXCESSIVE WORKING AT ANY JOINT OR COMPROMISES THE STRUCTURAL INTEGRITY OF THE MODULE SHALL BE SUFFICIENT REASON FOR REJECTION OF THE MODULE.
6. FINISH AND BASE MATERIALS AT EACH MODULE SHALL TERMINATE AT INTERIOR MODULE JOINTS IN A MANNER TO JOIN FLUSH AND TIGHT WITH SAME MATERIAL IN ADJACENT MODULE SO THE MODULE MAY BE RELOCATED WITH MINIMUM CUTTING AND PATCHING.

DOORS & WINDOWS

1. EXTERIOR DOORS: METAL DOORS - 3'-O"x7'-0" HOLLOW METAL DOOR CONSTRUCTION OF 1 SHEET OF 18 GA. GRADE II STEEL ASSEMBLED PER CS242 MINIMUM, AND REINFORCED WITH 20 GA. MINIMUM. FILL DOOR SPACES WITH MINERAL WOOL OR OTHER INSULATION. (REINFORCE BOTH FACES FOR CLOSURE.) PROVIDE FLUSH TOP ON DOORS. HARDWARE REINFORCEMENT SHALL BE 10 GA. MIN FOR HINGES, DOOR FRAME SHALL BE 16 GA. PRESSED STEEL FRAME ASTM A366 & C5242. HARDWARE REINFORCEMENT SHALL BE 10 GA. PLATE. FRAMES SHALL BE DESIGNED WITH INTEGRAL STOP AND TRIM. PROVIDE (3) ANCHORS PER JAMB PLUS ADJUSTABLE FLOOR ANCHOR. ROOMS WITH AN OCCUPANT LOAD OF FIVE OR MORE SHALL HAVE DOOR HARDWARE CAPABLE OF BEING LOCKED FROM THE INSIDE (PER CBC 1010.1.11).
2. EXTERIOR WINDOWS: PROVIDE ANODIZED ALUMINUM FRAME 5/8" MINIMUM DUAL PANE WINDOW UNITS, AS SHOWN ON FLOOR PLANS. THE 5/8" DIMENSION IS THE MINIMUM THICKNESS FOR THE DUAL GLAZED WINDOW PANEL CONSISTING OF TWO LITES OF GLASS AND THE AIR SPACE.
3. GLAZING MATERIAL SHALL BE: EXTERIOR LITE - 3/16" MINIMUM TEMPERED GLASS OR LAMINATED AS - 1 GLASS OF SOLAR GRAY GLARE REDUCING TYPE WITH A LIGHT TRANSMISSION FACTOR OF 45% MAXIMUM. INTERIOR LITE - 1/8" MINIMUM CLEAR TEMPERED. MINIMUM AIR SPACE SHALL BE 1/4" SPACE - BENT OR SEALED CORNER ALUMINUM WITH DESICCANT FILL SEALER - BUTYL PRIMARY SEAL AND POLYSULFIDE OR SILICONE SECONDARY SEAL. CERTIFICATION - ALL GLAZING TO BE CERTIFIED IN ACCORDANCE WITH ASTM E-773, E-774.
4. HEADER HEIGHT SHALL BE THE SAME AS THE DOOR. ALL OPERABLE SASH SHALL HAVE ALUMINUM SCREENS. WINDOWS SHALL NOT BE MOUNTED TO THE EXTERIOR OSB SURFACE. ALL WINDOWS SHALL MEET THE AAMA GS101-88 VOLUNTARY SPEC. FOR ALUMINUM PRIME WINDOWS AND SLIDING GLASS (ANS1), COMMERCIAL GRADE.
5. WINDOWS TO MATCH WHAT IS REQUIRED BY ENERGY REPORT. IF WINDOWS MUST BE NFRC RATED THAN NFRC LABELS SHALL BE LEFT ON THE WINDOWS FOR THE INSPECTOR TO VERIFY.

HARDWARE

1. EXTERIOR DOOR
   A. HINGES: HAGER 4-1/2" x 4-1/2" BUTTS, BB1279 US26D, 1-1/2 PAIR EACH DOOR WITH SET SCREW I BARREL AND BALL BEARING DESIGN, OR APPROVED EQUAL.
   B. EXTERIOR LOCKSET: SCHLAGE ND95PD, CORBIN, YALE OR EQUIVALENT. ALUM. FINISH. PANIC BARS/PULL HANDLE TYPE VON DUPRIN 22NL (PULL ON EXT.) OR CORBIN, YALE OR EQUIVALENT. ALUM. FINISH. PANIC BARS ARE ONLY REQUIRED WHERE THE OCCUPANT LOAD IS 50 OR MORE. ROOMS WITH AN OCCUPANT LOAD OF FIVE OR MORE SHALL HAVE DOOR HARDWARE CAPABLE OF BEING LOCKED FROM THE INSIDE (PER CBC 1010.1.11). LOCKS SHALL COMPLY WITH CBC 1010.1.9.
   C. CLOSER: NORTON 8500DA OR 8500BF SERIES, LCN 1460 DEL SERIES OR EQUAL.

HARDWARE continued

   D. WEATHERSTRIPPING: ALL EXTERIOR DOORS SHALL BE WEATHERSTRIPPED WITH PEMKO 299D, ULTRA WS007 OR EQUAL, AT DOOR JAMBS AND HEAD.
   E. THRESHOLD: THRESHOLD SHALL BE PEMKO 271 AV 5" ALUMINUM WITH PEMKO 216 AV ULTRA TH042 DOOR BOTTOM.
   F. DOORSTOP: QUALITY #44, OR EQUAL. FLOOR STOPS @ 4" MAX FROM WALL.
   G. INTERIOR LOCKSET:

      STUDENT TOILETS INTERIOR PASSAGE COPPER CREEK
      6220-PASSAGE w/ ADA LEVER OR
      6231-RESTROOM w/ ADA LEVER

      OFFICES INTERIOR ENTRY/OFFICE COPPER CREEK
      6241-ENTRY/OFFICE w/ ADA LEVER

      CUSTODIAL INTERIOR STOREROOM COPPER CREEK
      6250-STOREROOM w/ ADA LEVER

      PUBLIC TOILETS EXTERIOR DOOR LOCKSET RHODES
      SCHLAGE ND95PD w/ LEVER

FIRE EXTINGUISHER

1. EACH CLASSROOM SHALL BE EQUIPPED WITH PRESSURE TYPE FIRE EXTINGUISHERS WITH 2A10BC UL RATING. MOUNT ON THE INTERIOR WALL OF THE BUILDING NEAR THE DOORWAY(S) AT A MAXIMUM HEIGHT OF 4 FEET TO THE TOP OF THE OPERATING HANDLE, AND THE BOTTOM OF F.E. MOUNTED 27" OR LESS A.F.F. FIRE EXTINGUISHERS SHALL BE TOTALLY CHARGED AND HAVE A DIAL INDICATING THE STATE OF CHARGE.

INTERIOR

1. FLOOR COVERING: PER CBC SECTION 804, COMPLY WITH NFPA 253 CLASS I OR II. COMPLY WITH ASTM E 648 FOR SPECIFIC OPTICAL DENSITY SMOKE RATING NOT TO EXCEED 450. IN EXIT PASSAGEWAYS OR CORRIDORS, THE MINIMUM CRITICAL RADIANT FLUX (CBC 804.4.2) SHALL NOT BE LESS THAN CLASS II. (CARPET SHALL BE SECURELY ATTACHED, HAVE FIRM CUSHION, PAD OR BACKING, OR NONE AT ALL. PILE YARN SHALL BE BRANDED NYLON AND HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL-CUT PILE OR LEVEL-CUT/UNCUT PILE TEXTURE. THE MAXIMUM PILE HEIGHT SHALL BE 1/2" INCH. NO CROSS SEAMS SHALL BE ALLOWED. THE CARPET DENSITY SHALL BE 4600 MINIMUM. CARPET EDGE TRIM SHALL COMPLY WITH SECTION 11B-303. COLOR TO BE SELECTED BY RDPRC OR OWNER.)
2. BASE: RESILIENT COVE BASE - BEST QUALITY, MOULDED RUBBER, 1/8" THICK, 4" HIGH MOULDED TOP SET COVE. PROVIDE PREFORMED BASE FOR SQUARE EXTERNAL CORNERS AND PREFORMED END STOPS WHERE BASE DOES NOT ABUT. SOLID COLOR AS MANUFACTURE BY "JOHNSONITE CO.", FLEXCO, OR EQUAL. APPLY COVE TO COMPLETE PERIMETER OF CLASSROOM.
3. INTERIOR WALLS SHALL BE VINYL COVERED TACKBOARD (U.O.N.) APPLIED IN ONE CONTINUOUS LENGTH FROM FLOOR TO CEILING. THE TACKBOARD SHALL BE INDUSTRIAL INSULATION BOARD MANUFACTURED SPECIFICALLY AS A SUBSTITUTE FOR VINYL COVERED WALL PANELS. THE BOARD SHALL BE ASPHALT FREE, SHALL HAVE AN IRONED-ON COATING AND SHALL HAVE A MINIMUM DENSITY OF 18 LBS. PER FOOT. THE VINYL COATING SHALL BE MADE OF VIRGIN VINYL CALENDERED BASE COLOR, WEIGHING A MINIMUM OF 8 OZ. PER SQUARE YARD. THE COATING BACKING SHALL BE SHEETING OR NON-WOVEN FABRIC. THE VINYL COATING SHALL BE MECHANICALLY LAMINATED, WITH THE LONG EDGES WRAPPED, TO THE TACKBOARD. TACKBOARD SHALL BE APPLIED OVER 1/2" SHEETROCK OR OSB SHEATHING. THE VINYL WALL COVERED PANEL SHALL HAVE A CLASS 'C' RATING (PER ASTM E 84 OR UL 723). FLAME SPREAD/SMOKE DEVELOPED INDEX MAXIMUMS PER NOTE #6 BELOW. THE PANEL SHALL BE APPROVED FOR CLASSROOM USE BY THE CALIFORNIA STATE FIRE MARSHAL. REFERENCE BRAND: VINYL COVERED TACKBOARD AS MANUFACTURED BY CHATFIELD-CLARKE OR COMPARABLE. CARE SHALL BE TAKEN IN MOUNTING THE TACKBOARD SO THAT THE TEXTURE OF ALL PANELS WILL HAVE THE SAME ORIENTATION AND COLOR MATCH.
4. CEILING: SUSPENDED T-BAR SYSTEM, SEE SHEET M1.4 FOR DETAILS, MATERIALS AND INSTALLATION PER ASTM C635, ASTM C636 AND ASTM E580 AS APPLICABLE TO CLASSROOMS. PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL-FACED FIBERGLASS LAY-IN PANELS, SQUARE EDGE, LIGHT REFLECTION 75% MINIMUM. NOISE REDUCTION COEFFICIENT OF 0.65 MINIMUM. ASTM E 84 TESTED, RATED CLASS 'C': FLAME SPREAD INDEX NOT TO EXCEED 200, SMOKE DEVELOPED INDEX RATING NOT TO EXCEED 450.
5. THE INTERIOR ENVIRONMENT SHALL BE ASSEMBLED WITH PRODUCTS THAT CONTRIBUTE TO A HEALTHY INDOOR AIR QUALITY (IAQ). THE FOLLOWING SHALL COMPLY TITLE 24, PART 11 ("CAL-GREEN"), SECTION 5.504.4. (SEE SHEET N1.0, SECTION 9C "INTERIOR AIR QUALITY CONTROL").
6. FLAME SPREAD/SMOKE-DEVELOPED INDEX (TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723, PER CBC 803.1.1):

   WALL FINISH MATERIAL (CLASS 'C')
   FLAME SPREAD MAX = 200
   SMOKE DEVELOPED MAX = 450

   PIPE INSULATION (CLASS 'A')
   FLAME SPREAD MAX = 25
   SMOKE DEVELOPED MAX = 450

   BUILDING INSULATION (CLASS 'A')
   FLAME SPREAD MAX = 25
   SMOKE DEVELOPED MAX = 450

   DUCT INSULATION (CLASS 'A')
   FLAME SPREAD MAX = 25
   SMOKE DEVELOPED MAX = 50
7. TOILET PARTITIONS: SOLID PLASTIC BY ACCURATE PARTITIONS CORP. OR EQUIVALENT w/ FLOOR ANCHORS, OVERHEAD BRACED OR EQUIVALENT. MINIMUM FLAME SPREAD RATING: 50. MINIMUM SMOKE DEVELOPMENT RATING: 450. (BY OTHERS)
8. INTERIOR VENTILATION: EAVE VENTS AND ATTICS SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE CLOTH SCREENING, HARDWARE CLOTH, PERFORATED VINYL OR SIMILAR MATERIAL WITH OPENINGS HAVING A LEAST DIMENSION OF NOT LESS THAN 1/16" AND NOT MORE THAN 1/4" INCH, PER CBC SECTION 1202.2.2.

FOUNDATION CLEARANCES FROM SLOPES

CBC 1808A.7.1 BUILDING CLEARANCE FROM ASCENDING SLOPES. IN GENERAL, BUILDINGS BELOW SLOPES SHALL BE SET A SUFFICIENT DISTANCE FROM THE SLOPE TO PROVIDE PROTECTION FROM SLOPE DRAINAGE, EROSION AND SHALLOW FAILURES. EXCEPT AS PROVIDED IN SECTION 1808A.7.5 AND FIGURE 1808A.7.1, THE FOLLOWING CRITERIA WILL BE ASSUMED TO PROVIDE THIS PROTECTION. WHERE THE EXISTING SLOPE IS STEEPER THAN ONE UNIT VERTICAL IN ONE UNIT HORIZONTAL (100-PERCENT SLOPE), THE TOE OF THE SLOPE SHALL BE ASSUMED TO BE AT THE INTERSECTION OF A HORIZONTAL PLANE DRAWN FORM THE TOP OF THE FOUNDATION AND A PLANE DRAWN TANGENT TO THE SLOPE AT AN ANGLE OF 45 DEGREES (0.79 RAD) TO THE HORIZONTAL. WHERE A RETAINING WALL IS CONSTRUCTED AT THE TOE OF THE SLOPE, THE HEIGHT OF THE SLOPE SHALL BE MEASURED FROM THE TOP OF THE WALL TO THE TOP OF THE SLOPE.

CBC 1808A.7.2 FOUNDATION SETBACK FROM DESCENDING SLOPE SURFACE. FOUNDATIONS ON OR ADJACENT TO SLOPE SURFACES SHALL BE FOUNDED IN FIRM MATERIAL WITH AN EMBEDMENT AND SET BACK FROM THE SLOPE SURFACE SUFFICIENT TO PROVIDE VERTICAL AND LATERAL SUPPORT FOR THE FOUNDATION WITHOUT DETRIMENTAL SETTLEMENT. EXCEPT AS PROVIDED FOR IN CBC SECTION 1808A.7.5 AND FIGURE 1808A.7.1, THE FOLLOWING SETBACK IS DEEMED ADEQUATE TO MEET THE CRITERIA. WHERE THE SLOPE IS STEEPER THAN 1 UNIT VERTICAL IN 1 UNIT HORIZONTAL 100-PERCENT SLOPE), THE REQUIRED SETBACK SHALL BE MEASURED FROM AN IMAGINARY PLANE 45 DEGREES (0.79 RAD) TO THE HORIZONTAL, PROJECTED UPWARD FROM THE TOE OF THE SLOPE.

MARKERBOARD SPECIFICATIONS

MARKERBOARDS SHALL BE 24 GA. PORCELAIN STEEL FACING SHEET SUITABLE TO ACCEPT DRY ERASE FELT MARKERS. THE FACING SHEET SHALL BE LAMINATED TO PARTICLE BOARD SUBSTRATE WITH A MINIMUM DENSITY OF 45lbs./cu.ft. THE PANEL SHALL HAVE A FOIL BACKING. THE PANELS SHALL HAVE EXTRUDED ALUMINUM MOLDING AND CHALKRAIL WITH A MINIMUM OF 2 15/16" PROJECTION FROM THE FACE OF PANEL. THREE MAP HOOKS WITH CLIPS PER PANEL SHALL BE PROVIDED. ONE FLAG HOLDER, 1/2" SIZE, SHALL BE PROVIDED FOR EACH CLASSROOM. EACH CLASSROOM SHALL HAVE 2 EACH 4'x8' PANELS INSTALLED SIDE BY SIDE TO MAKE A 4'x16' PANEL, CENTERED ON THE WALL.

FOR ANCHORAGE DETAIL, SEE DETAIL 8/A4.0.

REFERENCE BRANDS: CHATFIELD-CLARKE Co, Inc. SERIES 500 OR NELSON ADAMS Co. NACO SERIES 60.

ACCESSIBILITY STANDARDS

REFERENCE: 2019 CALIFORNIA BUILDING CODE (TITLE 24, PART 2, CCR), CHAPTER 11B "ACCESSIBILITY TO PUBLIC..."

CBC SECTION 11B-206.2 BUILDING ACCESSIBILITY, GENERAL
1. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ALL BUILDINGS, ELEMENTS, AND AREAS, AND EACH FLOOR INCLUDING MEZZANINES.

CBC SECTION 11B-216 SIGNAGE
(ALSO REFER TO SECTIONS CBC 11B-703, 1009.9, 1009.10, 1023.9)
SIGNAGE IS REQUIRED:
1. TO IDENTIFY PERMANENT ROOMS & SPACES
2. TO PROVIDE DIRECTIONS AND INFORMATION ABOUT SPACES & FACILITIES
3. TO IDENTIFY MEANS OF EGRESS
   A. AREAS OF REFUGE AND AREA FOR ASSISTED RESCUE (PER CBC 1009.9 AND 1009.11)
   B. DIRECTIONS TO AN EXIT (PER CBC 1009.10)
   C. DELAYED EGRESS LOCKS (PER CBC 1010.1.9.7 ITEM 6)
   D. EXIT WAYS CBC (PER CBC 1013.4)
      - AT EACH GRADE LEVEL EXTERIOR EXIT DOOR
      - AT AN EXIT BY MEANS OF A STAIRWAY OR RAMP ("EXIT STAIR DOWN" OR "EXIT RAMP DOWN")
      - AT AN EXIT ROUTE VIA ENCLOSURE, PASSAGEWAY, CORRIDOR, HALLWAY, ETC.
      - OTHER HORIZONTAL WAYS WHERE THE EXIT OR EXIT PATH IS NOT IMMEDIATELY VISIBLE CBC (PER CBC 1013.1)
4. TO IDENTIFY ACCESSIBLE PARKING SPACES
5. TO IDENTIFY ENTRANCES OR ROUTE TO AN ACCESSIBLE ENTRANCE
6. TO IDENTIFY ELEVATORS
7. TO IDENTIFY TOILET ROOMS
8. TO IDENTIFY PUBLIC TELEPHONES, TTY and ASSISTIVE LISTENING SYSTEMS

SIGNS, WHERE LOCATED WITHIN AN ACCESSIBLE ROUTE, MOUNTED LESS THAN 80" ABOVE THE FINISHED FLOOR, MUST HAVE ROUNDED EDGES OR AN EASED RADIUS MINIMUM OF 0.125".

CBC SECTION 11B-404.2.8 DOOR CLOSING SPEED
1. THE SWEEP PERIOD OF ACCESSIBLE DOORS SHALL BE 5 SECONDS MINIMUM, FROM AN OPEN DOOR POSITION OF 90 DEGREES, TO A DOOR POSITION OF 12"Ø FROM THE LATCH.

CBC SECTION 11B-404.2.9 DOOR OPENING FORCE
1. THE EFFORT TO OPEN ANY DOOR SHALL NOT EXCEED 5LBS, EXCEPT FIRE DOORS, WHICH SHALL NOT EXCEED 15LBS FORCE. (THE MINIMUM FORCE NEEDED SHALL BE USED).

CBC SECTIONS 11B-404.2.4.3 RECESSED DOORS
1. DOORS RECESSED 8" OR MORE SHALL HAVE STRIKE EDGE CLEARANCES IN ACCORDANCE WITH FIGURE 11B-404.2.4.3.

CBC SECTION 11B-405.5 RAMP WIDTH
1. THE CLEAR WIDTH OF A RAMP SHALL BE 48" MINIMUM.

CBC SECTION 11B-505 HANDRAILS
1. THE TOP OF THE GRIPPING SURFACE OF HANDRAILS SHALL BE BETWEEN 34" AND 38", MEASURED VERTICALLY FROM WALKING SURFACES AND STAIR NOSINGS.
2. HANDRAILS SHALL HAVE AT LEAST 1-1/2" CLEARANCE ALONG THE SIDE; AND MAX 20% OBSTRUCTIONS ON THE BOTTOM. (CBC 11B-505.6).
3. HANDRAILS SHALL EXTEND BEYOND, AND IN THE SAME DIRECTION, OF STAIRS AND RAMPS.

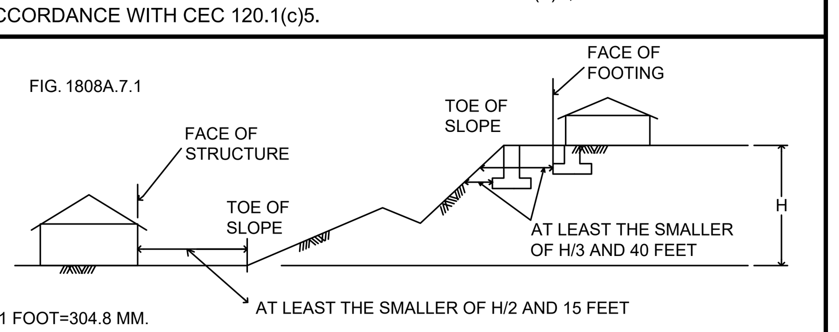
CBC SECTION 11B-606.4 WATER CONTROLS
1. CONTROLS TO OPERATE A WATER FAUCET OR OUTLET SHALL BE A SINGLE-LEVER DESIGN, CAPABLE OF BEING OPERATED WITH A SINGLE HAND, AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST.
2. THE FORCE REQUIRED TO OPERATE CONTROLS SHALL NOT EXCEED 5 LBS.

CBC SECTION 11B-604 TOILET ROOMS AND BATHING ROOMS
1. AN ACCESSIBLE TOILET STALL SHALL HAVE A MINIMUM WIDTH OF 60" AND SHALL BE EQUIPPED WITH A DOOR THAT HAS AN AUTOMATIC-CLOSING DEVICE, AND SHALL HAVE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 32 INCHES WHEN LOCATED AT THE END AND 34 INCHES WHEN LOCATED AT THE SIDE, WITH A SELF CLOSING DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.
2. THE INSIDE AND OUTSIDE OF THE ACCESSIBLE COMPARTMENT DOOR SHALL BE EQUIPPED WITH A LOOP OR U-SHAPED HANDLE IMMEDIATELY BELOW THE LATCH. THE LATCH SHALL BE FLIP-OVER STYLE, SLIDING OR OTHER HARDWARE NOT REQUIRING THE USER TO GRASP OR TWIST.
3. EXCEPT FOR DOOR-OPENING WIDTHS AND DOOR SWINGS, A CLEAR, UNOBSTRUCTED ACCESS OF NOT LESS THAN 44 INCHES SHALL BE PROVIDED TO THE WATER CLOSET COMPARTMENTS DESIGNED FOR USE BY PERSONS WITH DISABILITIES.
4. A 27"-29" MINIMUM DIMENSION IS REQUIRED FOR LAVATORY/SINK KNEE CLEARANCE, WHICH IS THE DISTANCE FROM THE FINISH FLOOR TO THE UNDERSIDE OF THE LAVATORY/SINK.
5. TABLE 11B-604.9 SUGGESTS DIMENSIONS FOR CHILDREN'S USE. TOILET ACCESSORIES LOCATED IN THE CIRCULATION PATH AND WITH THE BOTTOM MOUNTED ABOVE 27" SHALL BE 4" DEEP MAX (11B-307.2).

OUTDOOR VENTILATION REQUIREMENTS:

1. CLASSROOMS ARE DESIGNED FOR MINIMUM OUTSIDE AIR OF 0.38 CFM PER SF. PER THE CALIFORNIA ENERGY CODE (CEC), SPACES SHALL BE DESIGNED TO THE MINIMUM REQUIREMENTS AS SPECIFIED OR TO 15 CFM PER OCCUPANT, WHICHEVER IS GREATER. THE BUILDING MANUFACTURER SHALL VERIFY WITH THE SCHOOL DISTRICT THE EXPECTED NUMBER OF OCCUPANTS IN THE CLASSROOM SO THAT THE OUTDOOR VENTILATION RATE FOR MECHANICAL SYSTEMS CAN BE ADEQUATELY ADJUSTED UPON SITE INSTALLATION OF THE BUILDING. THE BUILDING MANUFACTURER SHALL ALSO CONFIRM WITH HVAC EQUIPMENT MANUFACTURER THAT THE SELECTED EQUIPMENT WILL BE ABLE TO PERFORM TO ACCOMMODATE THE ADDITIONAL OUTDOOR AIR REQUIREMENTS UNDER PEAK DESIGN CONDITIONS FOR THE CLIMATE ZONE IN WHICH THE BUILDING IS LOCATED. AT OCCUPANCY, THE BUILDING MANUFACTURER SHALL PROVIDE TO BUILDING OWNER A DESCRIPTION OF THE QUANTITIES OF OUTDOOR AND RECIRCULATED AIR THAT THE VENTILATION SYSTEMS ARE DESIGNED TO PROVIDE TO EACH AREA.
2. FOR CLASSROOMS GREATER THAN 750 SF OCCUPANT SENSOR VENTILATION CONTROL DEVICES SHALL BE INSTALLED PER CEC 120.2(e)3, AND SHALL OPERATE IN ACCORDANCE WITH CEC 120.1(c)5.

FIG. 1808A.7.1



FOR SI: 1 FOOT=304.8 MM.

MECHANICAL EQUIPMENT PROTECTION

1. ALL MECHANICAL EQUIPMENT SHALL BE THOROUGLY CLEANED PROGRESSIVELY DURING CONSTRUCTION AND COMPLETION OF THE JOB. ALL OPEN ENDS OF DUCTWORK AND EQUIPMENT SHALL BE COVERED AT END OF EACH WORK DAY AND DURING SHIPMENT OF RELOCATABLE BUILDINGS

LIGHT GAUGE METAL STUDS & COLD FORMED STEEL

1. ALL LIGHT GAUGE METAL STUDS & COLD FORMED STEEL SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF THE AISI S100-16.
2. ALL GALVANIZED STUDS, JOISTS, TRACK, BRIDGING AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM A653.
3. CUSTOM FORMED SHAPES SHALL BE BENT FROM ASTM A1011 SS STEEL SHEETS, UNO.
4. STUD AND TRACK DESIGNATIONS ARE BASED ON STEEL STUD MANUFACTURERS ASSOCIATION ICC-ES EVALUATION REPORT ESR-3064P.
5. GALVANIZED FRAMING PRODUCTS SHALL BE COATED IN ACCORDANCE WITH AISI S240-15, SECTION A4 PRODUCTS WILL BE FURNISHED WITH A G-60 OR EQUIVALENT COATING IF SPECIFIED, AND SHALL BE IN CONFORMANCE WITH ASTM C-955, OTHERWISE, G-90 OR EQUIVALENT COATING WILL BE PROVIDED.
6. LIGHT GAUGE STEEL TUBES FOR GUARD RAILS/POSTS SHALL BE ASTM A1011 SS, GRADE 45 (Fy=45 KSI).
7. WELDING OF LIGHT GAUGE METAL STUDS & COLD FORMED STEEL SHALL COMPLY WITH AWS D1.3-08.
8. ALL COLD-ROLLED MEMBERS FABRICATED BY AMS SHALL USE HOT-ROLLED SHEETS WITH THE FOLLOWING MIN. SPECIFICATIONS UNLESS NOTED OTHERWISE ON THE DRAWINGS

GA	MATERIAL	DESIGN THICKNESS	MIN. THICKNESS
20	A1011 SS Gr. 36	0.0346"	0.0329"
18	A1011 SS Gr. 36	0.0451"	0.0428"
16	A1011 SS Gr. 45	0.0566"	0.0538"
14	A1011 SS Gr. 45	0.0713"	0.0677"
12	A1011 SS Gr. 45	0.1017"	0.0966"
10	A1011 SS Gr. 50	0.1345"	0.1278"

FASTENERS FOR ATTACHMENT TO STEEL

1. SCREWS FOR STEEL TO STEEL & WOOD TO STEEL CONNECTIONS SHALL BE SELF-DRILLING, SELF-TAPPING SCREWS (SDSTS) PER ASTM C1513, UON.
   1.1. HEAD TYPE AS REQUIRED FOR APPLICATION.
   1.2. SCREW LENGTHS TO HAVE 3 EXPOSED THREADS MIN.
   1.3. CORROSION PROTECTION: INTERIOR USE SCREWS AND SCREWS THAT ARE PROTECTED FROM THE OUTSIDE ENVIRONMENT SHALL BE ELECTRO-ZINC PLATED MIN, UNO. EXTERIOR USE SCREWS THAT ARE EXPOSED TO THE OUTSIDE ENVIRONMENT SHALL BE ONE OF THE FOLLOWING, UNO:
      A. ITW BUILDEX TEKS SELF DRILLING SCREWS WITH CLIMASEAL COATING PER ICC ESR-1976.
      B. HILTI SELF-DRILLING AND SELF-PEIRCING SCREWS WITH KWIK-COTE COATING PER ICC ESR-2196
      C. GRABBER SELF-DRILLING TAPPING SCREWS WITH GRABBERGARD COATING PER ICC ESR-1271
2. SHOT PINS SPECIFIED FOR PLYWOOD DIAPHRAM TO LIGHT GAUGE STEEL CONNECTIONS SHALL BE ET&F PINS PER IAPMO UES REPORT ER-0335.
3. SHOT PINS FOR ATTACHMENT OF 2X WOOD OR LIGHT GAUGE STEEL MEMBERS TO STRUCTURAL STEEL OR CONCRETE SHALL BE BY HILTI UNO.

METAL FLOOR DECK

1. SECTION PROPERTIES SHALL BE DERIVED IN ACCORDANCE WITH AISI, S100-16 "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."
2. METAL DECKING IS TO BE ATTACHED TO THE STRUCTURAL FRAME IN CONFORMANCE WITH AWS D1.1 AND D1.3, "SPECIFICATION FOR WELDING SHEET STEEL IN STRUCTURES."
3. ASTM REFERENCE NUMBERS: ASTM A653, STEEL SHEET, ZINC-COATED (GALVANIZED) OR ZINC-IRON ALLOY-COATED (GALVANEALED) BY THE HOT-DIP PROCESS STRUCTURAL (PHYSICAL) QUALITY.
4. STEEL DECK INSTITUTE (SDI)-METAL FLOOR DECK PROFILES SHALL BE IN CONFORMANCE WITH SDI STANDARDS.
5. METAL FLOOR DECK TO BE ASC STEEL DECK PER IAPMO ER-0329:
   5.1. BH-36, 18 GAUGE, 1½" DEEP x 36" WIDE
   5.2. 3WxH-36, 16 OR 18 GAUGE, 3" DEEP x 36" WIDE
   5.3. 3WxHF-36, 16/16 GAUGE, 3" DEEP x 36" WIDE
6. DECK UNITS ARE TO BE FABRICATED FROM SHEET STEEL CONFORMING TO:
   6.1. ASTM A653 SS, Fy=50 KSI WITH A GALVANIZED COATING, G-60 OR G-90.

ABBREVIATION LEGEND

A	ACCESSIBLE
AB	ANCHOR BOLT
AC	ASPHALT CONCRETE
A/C	AIR CONDITIONING
ACI	AMERICAN CONCRETE INSTITUTE
ACOUS	ACOUSTICAL
ADD	ADDENDUM
ADD'L	ADDITIONAL
ADJ	ADJUSTABLE OR ADJACENT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
ALT	ALTERNATE
ALUM	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APA	AMERICAN PLYWOOD ASSOCIATION
ARCH	ARCHITECT(URAL)
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWC	AMERICAN WOOD COUNCIL
AWPA	AMERICAN WOOD PROTECTION ASSOCIATION
AWS	AMERICAN WELDING SOCIETY
BD	BOARD
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BLW	BELOW
BM	BEAM
BN	BOUNDARY NAILING
BOT/BOTT	BOTTOM
BRG	BEARING
BTWN	BETWEEN
BUR	BUILT UP ROOFING
C	CARPET
CAB	CABINET
CB	CATCH BASIN
CBC	CALIFORNIA BUILDING CODE
CCR	CALIFORNIA CODE OF REGULATIONS
CEM	CEMENT
CF	CUBIC FOOT
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
CLG	CEILING
CLR	CLEAR
CT	CERAMIC TILE
CMU	CONCRETE MASONRY UNIT
CNEL	COMMUNITY NOISE EQUIVALENT LEVEL
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
CSK	COUNTERSINK
CTRD	CENTERED
CW	COLD WATER
DBL	DOUBLE
DET	DETAIL
DF	DRINKING FOUNTAIN OR DOUGLAS FIR
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIV	DIVISION
DR	DOOR
DS	DOWNSPOUT
DSA	DIVISION OF THE STATE ARCHITECT
DWG	DRAWING
(E)	EXISTING
EA	EACH
EJ	EXPANSION JOINT
ELEV	ELEVATION
ELECT	ELECTRICAL
EMBED	EMBEDMENT
EMT	ELECTRICAL MAGNETIC TUBING
EN	EDGE NAILING (OR EDGE FASTENING)
ETC	ET CETERA
EQ	EQUAL
EW	EACH WAY
EXP	EXPOSURE
EXT	EXTERIOR
F	FAHRENHEIT
FUT	FUTURE
FAB	FABRICATION
FAC	FACTORY
FD	FLOOR DRAIN
FF	FINISHED FLOOR
FG	FINISHED GRADE
FHWS	FLAT HEAD WOOD SCREW
FIN	FINISH
FLR	FLOOR
FLSHG	FLASHING
FN	FIELD NAILING
FND/FNDN	FOUNDATION

FO	FACE OF
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOP	FACE OF PLYWOOD
FOS	FACE OF STUD
FRP	FIBERGLASS REINFORCED PLASTIC PANELS
FT	FOOT
FTG	FOOTING
FURR	FURRED (-ING)
GA	GAUGE
GB	GYPSUM BOARD
GL	GLASS OR GLAZING
GLV/GALV	GALVANIZED
GSM	GALVANIZED SHEET METAL
GYP	GYPSUM
GYP.BD.	GYPSUM BOARD
HB	HOSE BIBB
HC	HOLLOW CORE
HDR	HEADER
HDW	HARDWOOD
HF	HEM FIR
HM	HOLLOW METAL (STEEL)
HOR/HORIZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL SECTION (STEEL)
HT	HEIGHT
HVAC	HEATING VENTILATING AIR CONDITIONING
HW	HOT WATER
IAPMO	INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS
ICC	INTERNATIONAL CODE COUNCIL
ID	INSIDE DIAMETER
IN	INCH
INSUL	INSULATE (D), (ION)
INT	INTERIOR
INV	INVERT
IR	INTERPRETATION OF REGULATIONS
ISA	INTERNATIONAL SYMBOL OF ACCESSIBILITY/ACCESS
JT	JOINT
KSI	KIPS PER SQUARE INCH (KIPS = 1,000LBS)
LAM	LAMINATE(D)
LAV	LAVATORY
LB, LBS	POUND
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LNDG	LANDING
LONG	LONGITUDINAL
LS	LAG SCREW
LT	LIGHT
LW	LIGHT WEIGHT
LWC	LIGHT WEIGHT CONCRETE
MATL	MATERIAL
MAX	MAXIMUM
MB	MECHANICAL BOLT
MECH	MECHANICAL
MFG	MANUFACTURING
MFR	MANUFACTURER
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MM	MILLIMETER
MTL	METAL
(N)	NEW
NIC	NOT IN CONTRACT
NDS	NATIONAL DESIGN SPECIFICATION
NW	NORMAL WEIGHT
NWC	NORMAL WEIGHT CONCRETE
O/	OVER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND OR OVERHANG
OL	OCCUPANT LOAD
OPG	OPENING
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD
PAF	POWER-ACTUATED FASTNER
PJP	PARTIAL JOINT PENETRATION
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLF	POUNDS PER LINEAR FOOT
PLT	PLATE
PLWD/PLY	PLYWOOD
PNL	PANEL
POC	POINT OF CONNECTION
PS	PRODUCT STANDARD
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH

PSL	PARALLEL STRAND LUMBER
PT	PRESSURE TREATED
PTDF	PRESERVATIVE TREATED DOUGLAS FIR
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
R	RISER
RD	ROOF DRAIN
RDPRC	REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE
RDWD	REDWOOD
REF	REFERENCE
REFR	REFRIGERATOR
REINF	REINFORCING
REQ'D/REQ	REQUIRED
RES	RESILIENT
RDWD	REDWOOD
RWL	RAIN WATER LEADER
SCH/SCHED	SCHEDULE
SD	STORM DRAIN
SDSTS	SELF-DRILLING, SELF-TAPPING SCREW
SEC	SECTION
SEP	SEPARATION
SF	SQUARE FEET
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SMS	SHEET METAL SCREW
SOG	SLAB-ON-GRADE
SP	STRUCTURAL PLYWOOD
SPEC	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
SSMA	STEEL STUD MANUFACTURERS ASSOCIATION
STAGG	STAGGERED
STN	STAIN
STD	STANDARD
STL	STEEL
STS	SELF TAPPING SCREW
STSMS	SELF TAPPING SHEET METAL SCREW
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TEMP	TEMPERED
THRU	THROUGH
TJ	TOOL JOINT
TOC	TOP OF CURB, CRICKET, OR CONCRETE
TOP	TOP OF PARAPET
TOS	TOP OF SLAB, SHEATHING, OR STEEL
TOW	TOP OF WALL
TRANS	TRANSVERSE
TS	TOP OF SHEATHING
TV	TELEVISION
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UNO	UNLESS NOTED OTHERWISE
VAR	VARIES
VCT	VINYL COMPOSITION TILE
VCTB	VINYL COVERED TACKBOARD
VERT	VERTICAL
VOC	VOLATILE ORGANIC COMPOUND(S)
VFY	VERIFY
VIF	VERIFY IN FIELD
VWC	VINYL WALL COVERING
W/	WITH
WD	WOOD
WF	WIDE FLANGE
WIN	WINDOW
W/O	WITHOUT
WS	WOODSCREW
WSCT	WAINSCOT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
∠	ANGLE
@	AT
℄	CENTER LINE
Ø	DIAMETER
°	DEGREES
M̸L	MODULE LINE
±	PLUS/MINUS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK EDWARD BARTOS
C-24138
REN. 03-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

1	
2	
3	
4	

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
GENERAL NOTES & SPECIFICATIONS

SHEET NUMBER:
N2.0

02-XXXXXX - 2-Story 48' - 228' x 40' - SAVED: 6/13/2022 1:31 PM PLOTTED: 6/21/2022 10:44 AM W:\Projects\1000-1999\1600-1699\1657-21 Santa Cruz City Schools- Gault ES\PRELIMINARY\DWG\03 - 02 - 119145 - N2.0 - Gault ES - General Notes.DWG

DOORS / FRAMES

DOOR NO.	DOOR TYPE	DOOR SIZE	QUANTITY	MATERIAL	FINISH	HARDWARE SET NO.	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	REMARKS
1	D1	6'-0" x 7'-0"	2	HM	PT	B	F1	STL	PT	HARDWARE LOCKABLE FROM THE INSIDE, SEE DOOR NOTE #3
2	D2	3'-0" x 7'-0"	1	HM	PT	B	F2	STL	PT	
3	D2	3'-0" x 7'-0"	8	HM	PT	A	F2	STL	PT	
4	D3	3'-0" x 7'-0"	2	HM	PT	A	F2	STL	PT	
5	D2	3'-0" x 7'-0"	2	HM	PT	A	F2	STL	PT	
6	D5	6'-0" x 7'-0"	1	SC	CLR	G	F1	STL	PT	
7	D4	2'-0" x 7'-0"	1	SC	CLR	F	F3	STL	PT	

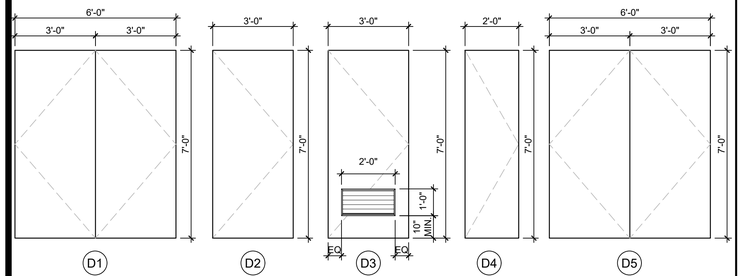
DOOR ABBREVIATIONS

HM - HOLLOW METAL
AL - ALUMINUM
S - STEEL
SST - STAINLESS STEEL
STL - STEEL FRAME, 16ga. FULLY WELDED
WWF - WINDOW WALL FRAME
SC - SOLID CORE WOOD
HC - HOLLOW CORE WOOD
PT - PAINTED
CA - CLEAR ANODIZED
BR - BRONZE ANODIZED
CLR - CLEAR FINISH

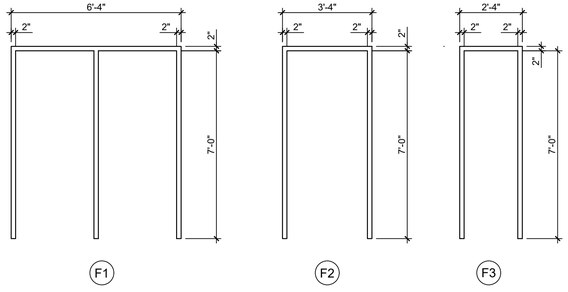
DOOR NOTES

1. DOORS SHALL COMPLY WITH C.B.C. SECTION 1010.
2. CLASSROOMS ≥ 981 S.F WILL REQUIRE PANIC HARDWARE THAT COMPLIES WITH C.B.C. SECTION 1010.1.10.
3. PER C.B.C. 1010.1.11: PROVIDE LOCKS THAT ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANCY OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INSIDE. LOCKS SHALL COMPLY WITH C.B.C. SECTION 1010.1.9.

DOOR SCHEDULE



DOOR TYPES



T= TEMPERED

WINDOW SCHEDULE

WINDOW TYPE	QTY.	FUNCTION	'W' WIDTH	'H' HEIGHT	FINISH	GLASS TYPE	U FACTOR	SHGC	VT MIN	MIN STC RATING	REMARKS
A	10	MANUAL	8'-0"	4'-0"	BRONZE ANODIZED	SOLAR GREY[6]	0.780	0.430	0.37	27	OPERABLE
B	5	MANUAL	4'-0"	4'-0	BRONZE ANODIZED	SOLAR GREY[6]	0.780	0.430	0.37	27	OPERABLE
C	5	MOTORIZED	4'-0"	4'-0"	BRONZE ANODIZED	SOLAR GREY[6]	0.780	0.430	0.37	27	OPERABLE
D	3	MANUAL	4'-0"	3'-0"	BRONZE ANODIZED	SOLAR GREY[6]	0.780	0.430	0.37	27	OPERABLE
E	3	MOTORIZED	4'-0"	3'-0"	BRONZE ANODIZED	SOLAR GREY[6]	0.780	0.430	0.37	27	OPERABLE

1. EXTERIOR LITE - 3/16" MINIMUM TEMPERED GLASS, OR LAMINATED AS 1 GLASS OF SOLAR GRAY GLARE REDUCING TYPE WITH A LIGHT TRANSMISSION FACTOR OF 45% MAXIMUM.

2. WINDOWS THAT MEETS ALL OF THE FOLLOWING CONDITIONS SPECIFIED IN SECTION 2406.4.3, SHALL BE CONSIDERED A HAZARDOUS LOCATION:
   A. THE EXPOSED AREA OF AN INDIVIDUAL PANE IS GREATER THAN 9 SQUARE FEET.
   B. THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18" ABOVE FINISH FLOOR.
   C. THE TOP EDGE OF THE GLAZING IS GREATER THAN 36" ABOVE FINISH FLOOR.
   D. ONE OR MORE WALKING SURFACE(S) ARE WITHIN 36", MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, OF THE PLANE OF THE GLAZING.

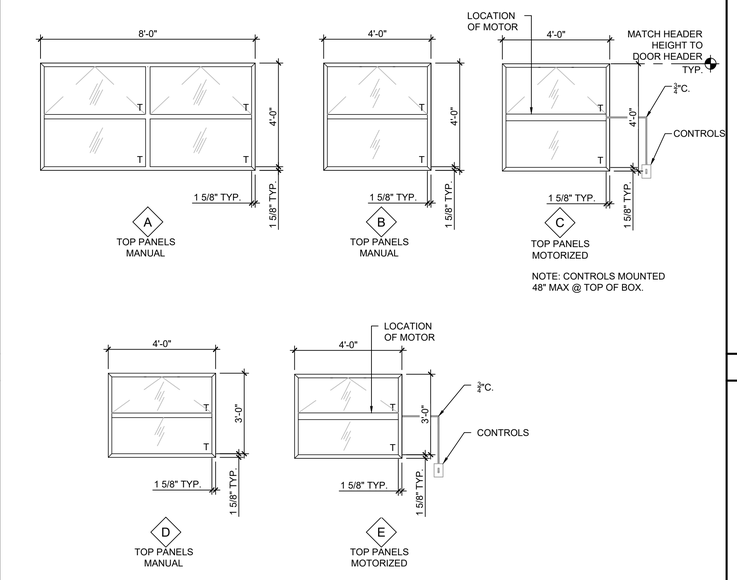
3. WINDOWS THAT ARE CONSIDERED A HAZARDOUS LOCATION SHALL CONTAIN FULLY TEMPERED SAFETY GLAZING & MEET THE FOLLOWING REQUIREMENTS:
   A. PASS THE IMPACT TEST REQUIREMENTS IN ACCORDANCE WITH "CPSC 16 CFR PART 1201" PER SECTION 2406.2, WITH A TEST CRITERIA OF CATEGORY II, UNLESS OTHERWISE INDICATED IN C.B.C. TABLE 2406.2(1).
   B. IDENTIFICATION OF SAFETY GLAZING PER C.B.C. 2406.3

4. ALL WINDOWS SHALL HAVE METAL FRAMES AND BE MANUFACTURED BY OTHERS.

5. WINDOWS ARE NOT NFRC RATED (UP TO 1,000 SF. OF GLAZING IF ALLOWED TO USE DEFAULT VALUES FROM TABLE 110.6-A & 110.6-B).

6. THE MINIMUM STANDARD GLASS TYPE FOR ALL WINDOWS SHALL SOLAR GREY GLAZING. UPGRADED GLAZING (LOW E, LOW E2, ETC.) MAY BE USED PER SITE SPECIFIC REQUIREMENTS.

WINDOW SCHEDULE



NOTE:
WINDOWS ARE OPERABLE
T= TEMPERED
OPERABLE WINDOWS TO BE EQUIPPED WITH A 4" LIMITER WHEN IN PATH OF TRAVEL

FINISHES

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALLS FRONT	WALLS REAR	WALLS RIGHT	WALLS LEFT	CEILING	NOMINAL CEILING HEIGHT	REMARKS
1 - 5	CLASSROOM - STANDARD	A	D	F	F	F	F	K	9'-0"	VCT WALK OFF @ EXTERIOR DOOR
6	ART ROOM	C	D	F	F	F	F	K	9'-0"	
7	CLASSROOM	C	D	F	F	F	F	K	9'-0"	CLASSROOM WHEN PARTITION CLOSED; EXTENSION OF MPR WHEN OPEN
8	MULTIPURPOSE ROOM	C	D	F	F	F	F	K	9'-0"	
9	WARMING KITCHEN	Q	D	F	F	F	F	K	8'-6"	
10	JANITOR ROOM	Q	Q	J	J	J	J	K	9'-0"	
11	GIRLS TOILET ROOM	Q	Q	J	J	J	J	M	9'-0"	
12	BOYS TOILET ROOM	Q	Q	J	J	J	J	M	9'-0"	
13	GENDER NEUTRAL	Q	Q	J	J	J	J	M	9'-0"	
14	STAFF TOILET ROOM	Q	Q	J	J	J	J	M	9'-0"	
15	FIRE RISER ROOM	O	D	J	J	J	J	K	9'-0"	

FINISH INDICATOR OPTIONS

A - CARPET; PER STATE OF CALIF SPEC COMPLYING WITH GROUP 1, TYPE A OR TYPE B, CLASS 2, DENSITY 4600.
B - VINYL SHEET FLOORING; 0.6 MIN. C.O.F. PER ASTM D 2047
C - VCT; ARMSTRONG, STANDARD, OR EXCELON.
D - TOP SET BASE; 4"
E - TOP SET BASE; 6"
F - WALL FINISH; 1/2" VINYL TACKBOARD CLASS 1 OVER 1/2" GYP BOARD BACKING
G - 1/2" W.R. GYP BOARD; TAPE, PAINTED FINISH
H - 1/2" GYP BOARD; TAPE, PAINTED FINISH
J - 3/32" F.R.P., OVER 1/2" W.R. GYP BOARD
K - ACOUSTICAL LAY-IN GRID CEILING PANELS 2'x4'
L - 1/2" VINYL TACKBOARD; CLASS 1, OVER 5/8" TYPE "X" GYP BOARD BACKING
M - 5/8" TYPE 'X' GYP BOARD; TAPE, TEXTURE, PAINTED FINISH
N - CERAMIC TILE - (FULL HEIGHT AT WALLS)
O - EXPOSED CONCRETE WITH CONCRETE SEALER
P - CLOUD CEILING PANELS
Q - EPOXY FLOOR & 6" SELF COVED BASE

NOTES:
1. GROUND AND FLOOR FINISHES SHALL BE FIRM, STABLE AND SLIP RESISTANT.
2. PROVIDE GLUE- ON OR FIRM CUSHION INSTALLATION. CARPET SHALL HAVE A LEVEL LOOP, TEXTURE LOOP, LEVEL OUT OR LEVEL - CUT/UNCUT PILE TEXTURE AND MAXIMUM PILE HEIGHT OF 1/2". CARPET EDGES SHALL COMPLY WITH 11B-303.

ROOM FINISHES SCHEDULE

DOOR FRAME TYPES

A	EXTERIOR DOOR LOCKSET w/SECUREALL SA-PHR
B	EXTERIOR DOOR PANIC BAR w/PULL ON EXTERIOR VON DUPRIN AX99 w/SECUREALL SA-PHR (REQUIRED WHEN OCCUPANT LOAD IS 50 0R MORE)
C	~~INTERIOR PASSAGE COPPER CREEK 6220-PASSAGE w/ADA LEVER~~
D	~~INTERIOR RESTROOM COPPER CREEK 6231-RESTROOM w/ADA LEVER~~
E	~~INTERIOR ENTRY/OFFICE COPPER CREEK 6241-ENTRY/OFFICE w/ADA LEVER~~
F	INTERIOR STOREROOM COPPER CREEK 6250-STOREROOM w/ADA LEVER
G	INTERIOR CLASSROOM COPPER CREEK 6260-CLASSROOM w/ADA LEVER

EXTERIOR DOOR HARDWARE

1. HINGES: HAGER 4-1/2x4-1/2 BUTTS, BB1279 US26D, 1-1/2 PAIR PER DOOR, WITH SET SCREW IN BARREL AND BALL BEARING DESIGN.
2. CLOSER: NORTON 8500DA OR 8500BF SERIES, LCN 1460 DEL SERIES OR EQUAL. (5 LBS. MAX. PRESSURE)
3. WEATHERSTRIPPING: ALL EXTERIOR DOORS SHALL BE WEATHERSTRIPPED WITH PEMKO 299D, ULTRA WS007 OR EQUAL, AT DOOR JAMBS AND HEAD.
4. THRESHOLD: THRESHOLD SHALL BE PEMKO 271 AV 5" ALUMINUM WITH PEMKO 216 AV ULTRA TH042 DOOR BOTTOM.
5. LOCKDOWN: INTERIOR TEACHERS' MANUAL LOCK FOR CAMPUS LOCK DOWN CRITERIA - REQUIRED FOR STATE-FUNDED SCHOOLS, PER EDUCATION CODE SECTION 17075.50 (AND ALSO CBC 1010.1.11): PROVIDE LOCKS THAT ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANCY OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INSIDE. LOCKS SHALL COMPLY WITH C.B.C. SECTION 1010.1.9.

WINDOW TYPES

DOOR HARDWARE NOTES

1. OPERABLE PARTS OF DOOR HARDWARE SHALL BE 34" MINIMUM AND 44" MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

2. HANDLES, PULLS, LATCHES, LOCKS AND OTHERS OPERABLE PARTS ON DOORS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 lbs. MAX. (11B-404.2.7, 11B-309.4)

3. ADDITIONAL DOORS MAY BE REQUIRED BASED ON BUILDING LAYOUT.

4. DOOR AND GATE SPRING HINGES SHALL BE ADJUSTED SO THAT IN THE OPEN POSITION OF 70 DEGREES, THE DOOR AND GATE SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS MINIMUM. 11B-404.2.8.2.

5. ALL HARDWARE SHALL MEET THE REQUIREMENTS 11B-309.4

1010.1.4.4 LOCKING ARRANGEMENTS IN EDUCATIONAL OCCUPANCIES. IN GROUP E AND GROUP B EDUCATIONAL OCCUPANCIES, EGRESS DOORS FROM CLASSROOMS, OFFICES AND OTHER OCCUPIED ROOMS SHALL BE PERMITTED TO BE PROVIDED WITH LOCKING ARRANGEMENTS DESIGNED TO KEEP INTRUDERS FROM ENTERING THE ROOM WHERE ALL OF THE FOLLOWING CONDITIONS ARE MET:

1. THE DOOR SHALL BE CAPABLE OF BEING UNLOCKED FROM OUTSIDE THE ROOM WITH A KEY OR OTHER APPROVED MEANS.
2. THE DOOR SHALL BE OPENABLE FROM WITHIN THE ROOM IN ACCORDANCE WITH SECTION 1010.1.9.
3. MODIFICATIONS SHALL NOT BE MADE TO LISTED PANIC HARDWARE, FIRE DOOR HARDWARE OR DOOR CLOSER.

ACCESSIBLE DOORS, GATES AND HARDWARE CBC 11B-404

DH1 - PROVIDE ACCESSIBLE DOOR OR GATE LEAF WIDTH, MINIMUM 36" WIDE AND CAPABLE OF MAXIMUM 5LB. FORCE OPERATION PER 11B-404.2.9. (NOTE THAT THE MAXIMUM ALLOWED WIDTH FOR A SWINGING EGRESS DOOR OR GATE IS 48" NOMINAL PER CBC 1010.1.1.)

DH4 - PROVIDE HARDWARE WITH 5LB. MAXIMUM UNLATCHING FORCE PER 11B-404.2.7 AND 11B-309.4. THIS REQUIREMENT APPLIES TO ALL DOOR HARDWARE, INCLUDING EXIT DEVICES.

DH5 - UNLATCHING OF ANY DOOR SHALL NOT REQUIRE MORE THAN ON OPERATION. SEE CBC 1010.1.9.5 FOR EXCEPTIONS.

DH6 - PROVIDE ACCESSIBLE THRESHOLD OR THRESHOLD CONDITION PER 11B-404.2.5.

DH7 - ON THE PUSH - SIDE OF THE DOOR, PROVIDE SMOOTH SURFACE WITHIN 10" OF FINISH FLOOR OR GROUND, FOR FULL WIDTH OF DOOR PER 11B-404.2.10.

DH9 - INDICATE ON, 12-10-3, SECTION.

DOOR HARDWARE SCHEDULE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING
FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK RICHARD WY
No. C-29738
EXP. 11.31.23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
PATRICK CHOW
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

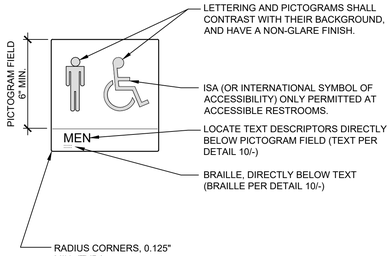
SHEET TITLE:
TYPICAL SCHEDULES
DOORS, WINDOWS
& FINISHES

SHEET NUMBER:
N3.0

G:\XXXXXX - 2-Story.rvt - 22X 44" - SAVED: 6/29/2022 9:54 AM - M:\Plans\xx\XXX-999\999-999\999-999-2-Santa Cruz City Schools- Gault ES\PRELIM\ARCH\N3Dr.rvt - 02 - 119143 - NOT - Gault ES - Schedules.dwg

WALL MOUNTED RESTROOM SYMBOLS-MEN
NOT TO SCALE | 1

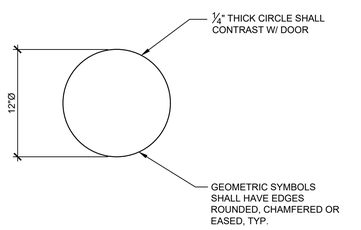
NOTE:
* (SIGN....)



NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
2. LOCATE PER DETAIL 4/-
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

DOOR MOUNTED RESTROOM SYMBOLS-WOMEN
NOT TO SCALE | 2

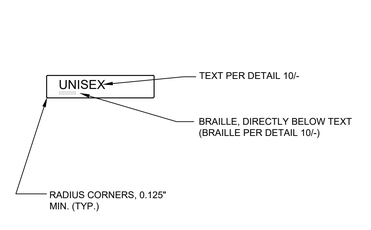
NOTE:
* (SIGN....)



NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH DOOR MATERIAL.
2. LOCATE PER DETAIL 4/-
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. GEOMETRIC SYMBOLS SHALL COMPLY WITH 11B-703.7.2.6

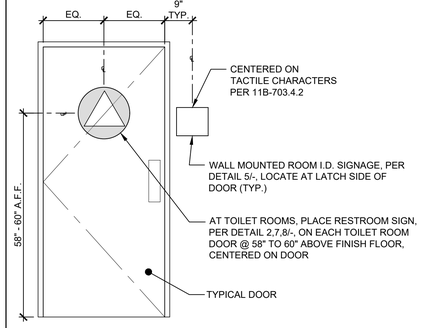
WALL MOUNTED RESTROOM SYMBOLS-UNISEX
NOT TO SCALE | 3

NOTE:
* (SIGN....)



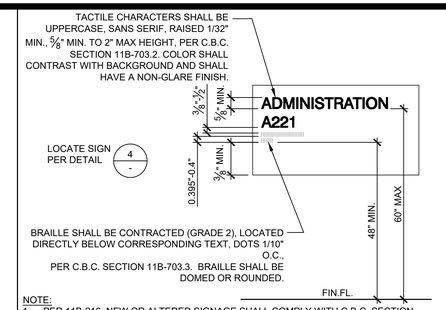
NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
2. LOCATE PER DETAIL 4/-.
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. THE UNISEX WALL-MOUNTED SIGN SHALL HAVE RAISED TEXT, CORRESPONDING BRAILLE, AND NO PICTOGRAM (DSA BU 17-01)

ROOM IDENTIFICATION SIGNAGE
NOT TO SCALE | 4



NOTE:
SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

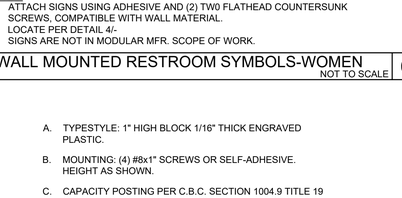
PERMANENT ROOM I.D. SIGNAGE
NOT TO SCALE | 5



NOTE:
1. PER 11B-216, NEW OR ALTERED SIGNAGE SHALL COMPLY WITH C.B.C. SECTION 11B-703.
2. FOR REQUIRED TACTILE & NON-TACTILE SIGNS LOCATIONS, SEE SHEET N2.0, ACCESSIBILITY STANDARDS, "SECTION 11B-216".
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. ATTACH SIGNS USING ADHESIVE OR MIN (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.

WALL MOUNTED RESTROOM SYMBOLS-WOMEN
NOT TO SCALE | 6

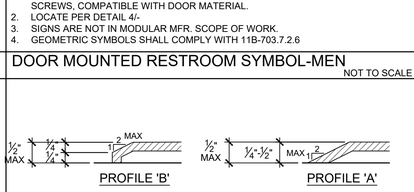
NOTE:
* (SIGN....)



NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TW0 FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
2. LOCATE PER DETAIL 4/-
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

DOOR MOUNTED RESTROOM SYMBOL-MEN
NOT TO SCALE | 7

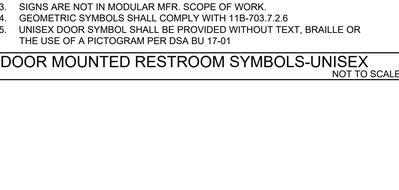
NOTE:
* (SIGN....)



NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TW0 FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH DOOR MATERIAL.
2. LOCATE PER DETAIL 4/-
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. GEOMETRIC SYMBOLS SHALL COMPLY WITH 11B-703.7.2.6

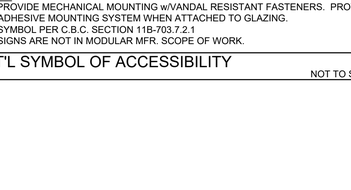
DOOR MOUNTED RESTROOM SYMBOLS-UNISEX
NOT TO SCALE | 8

NOTE:
* (SIGN....)



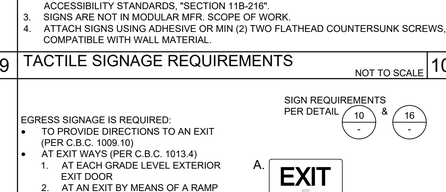
NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH DOOR MATERIAL.
2. LOCATE PER DETAIL 4/-
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. GEOMETRIC SYMBOLS SHALL COMPLY WITH 11B-703.7.2.6
5. UNISEX DOOR SYMBOL SHALL BE PROVIDED WITHOUT TEXT, BRAILLE OR THE USE OF A PICTOGRAM PER DSA BU 17-01

INT'L SYMBOL OF ACCESSIBILITY
NOT TO SCALE | 9



NOTES:
1. PROVIDE MECHANICAL MOUNTING w/VANDAL RESISTANT FASTENERS. PROVIDE ADHESIVE MOUNTING SYSTEM WHEN ATTACHED TO GLAZING.
2. SYMBOL PER C.B.C. SECTION 11B-703.7.2.1
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

TACTILE SIGNAGE REQUIREMENTS
NOT TO SCALE | 10



NOTE:
1. PER 11B-216, NEW OR ALTERED SIGNAGE SHALL COMPLY WITH C.B.C. SECTION 11B-703.
2. FOR REQUIRED TACTILE AND NON-TACTILE SIGNS LOCATIONS, SEE SHEET N2.0, ACCESSIBILITY STANDARDS, "SECTION 11B-216".
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. ATTACH SIGNS USING ADHESIVE OR MIN (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.

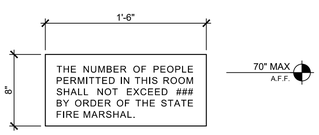
OCCUPANT LOAD SIGN
NOT TO SCALE | 11

A. TYPESTYLE: 1" HIGH BLOCK 1/16" THICK ENGRAVED PLASTIC.

B. MOUNTING: (4) #8x1" SCREWS OR SELF-ADHESIVE. HEIGHT AS SHOWN.

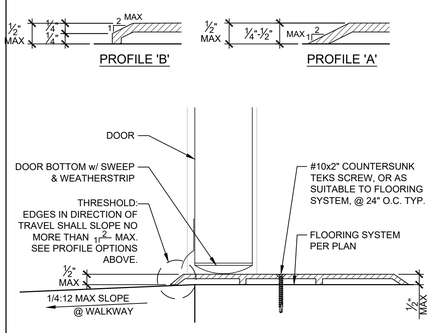
C. CAPACITY POSTING PER C.B.C. SECTION 1004.9 TITLE 19 C.C.R., SECTION 3.30: "THIS ROOM SHALL BE POSTED WITH A DURABLE SIGN NEAR THE MAIN EXIT FROM THE ROOM".

D. THE SIGN SHALL BE WORDED AS FOLLOWS, WITH THE APPROPRIATE CAPACITY NUMBER LISTED:

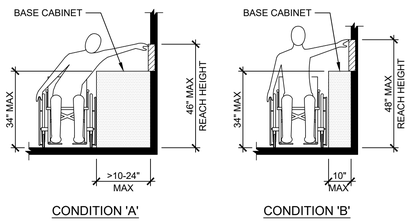


NOTES:
1. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
2. 11B-216.3 SIGNS THAT PROVIDE INFORMATION ABOUT INTERIOR SPACES SHALL COMPLY WITH SECTION 11B-703.5

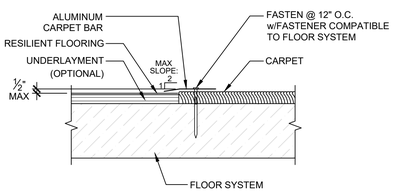
THRESHOLD @ EXTERIOR DOOR
NOT TO SCALE | 12



SIDE REACH AT BASE CABINET
NOT TO SCALE | 13



FLOORING TRANSITION DETAIL
NOT TO SCALE | 14



EGRESS SIGNAGE
NOT TO SCALE | 15

EGRESS SIGNAGE IS REQUIRED:
- TO PROVIDE DIRECTIONS TO AN EXIT (PER C.B.C. 1009.10)
- AT EXIT WAYS (PER C.B.C. 1013.4)
  1. AT EACH GRADE LEVEL EXTERIOR EXIT DOOR
  2. AT AN EXIT BY MEANS OF A RAMP ("EXIT RAMP DOWN")
  3. AT AN EXIT ROUTE VIA ENCLOSURE, PASSAGEWAY, CORRIDOR, HALLWAY, ETC.
  4. OTHER HORIZONTAL WAYS WHERE THE EXIT OR EXIT PATH IS NOT IMMEDIATELY VISIBLE (PER C.B.C. 1013.1)

SIGNAGE PER C.B.C. SECTION 11B-216. (ALSO REFER TO SECTIONS 11B-703, 1009.9, 1009.10, 1023.9)

SIGN REQUIREMENTS PER DETAIL 10/- & 16/-

A. EXIT

B. NOT USED.

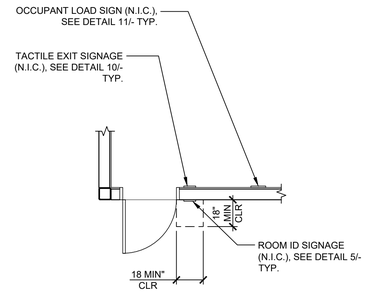
C. EXIT RAMP DOWN

D. EXIT ROUTE

E. TO EXIT

NOTE:
1. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

TYPICAL CLASSROOM SIGNAGE LOCATION
NOT TO SCALE | 16

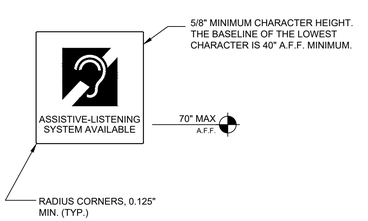


NOTE:

18" MIN CLEAR FLOOR SPACE SHALL BE CENTERED ON THE TACTILE CHARACTERS OF THE SIGN PER 11B-703.4.2

ASSISTIVE LISTENING SIGN
17

NOTE:
* (SIGN....)



NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TW0 FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
2. LOCATE AT OR NEAR THE ENTRANCE IN A PROMINENT PLACE. (11B-216.10)
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. SYMBOL PER CBC SECTION 11B-703.7.2.4
5. THE SIGN SHALL COMPLY WITH 11B-703.5 AND SIGN SHALL BE MOUNTED AT A HEIGHT COMPLYING WITH TABLE 11B-703.5.5.

NOT USED
18

NOT USED
19

NOT USED
20

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME

120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK RICHARD WY
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
TIMOTHY PATRICK HOWE
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:

ACCESSIBILITY
STANDARDS & DETAILS

SHEET NUMBER:

N4.0

S:\AMXXX_Sites\## JOB #\## DATE\ 05/05/22 9:21 AM PLOTTED 6/2/2022 9:54 AM W:\Projects\509-599\560-599\597-13 Santa Cruz City Schools Gault ES\PRELIM\ARCH\N0.0_02_119989_MKH_Gault ES - Accessibility.dwg

Project Name:	Santa Cruz City Schools Gault Elementary School	NRCC-PRF-01-E	Page 1 of 17
Project Address:	1320 Seabright Ave Santa Cruz 95062	Calculation Date/Time:	16:06, Fri, Nov 19, 2021
Input File Name:	Gualt ES_20211119.cibd19		

A. GENERAL INFORMATION

1	Project Location (city)	Santa Cruz	8	Standards Version	Compliance2019
2	CA Zip Code	95062	9	Compliance Software (version)	CBECC-Com 2019.2.0
3	Climate Zone	3	10	Weather File	MONTEREY_724915_CZ2010.epw
4	Total Conditioned Floor Area in Scope	8,624 ft²	11	Building Orientation (deg)	(N) 342 deg
5	Total Unconditioned Floor Area	435 ft²	12	Permitted Scope of Work	NewComplete
6	Total # of Stories (Habitable Above Grade)	2	13	Building Type(s)	Nonresidential
7	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. PROJECT SUMMARY

Table Instructions: Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within permit application.

Building Components Complying via Performance				Building Components Complying Prescriptively	
Envelope (see Table G)	☒ Performance ☐ Not Included	Covered Process: Commercial Kitchens	☐ Performance ☒ Not Included	*The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).*	
Mechanical (see Table H)	☒ Performance ☐ Not Included	Covered Process: Computer Rooms	☐ Performance ☒ Not Included	Indoor Lighting (Unconditioned)§140.6 Outdoor Lighting §140.7	*NRCC-LTI-E* *NRCC-LTO-E*
Domestic Hot Water (see Table I)	☒ Performance ☐ Not Included	Covered Process: Laboratory Exhaust	☐ Performance ☒ Not Included	Sign Lighting §140.8 Mandatory Measures	*NRCC-LTS-E*
Lighting (Indoor Conditioned, see Table K)	☒ Performance ☐ Not Included			*Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)* Electrical Power Distribution §110.11	*NRCC-ELC-E*
Solar Thermal Water Heating (see Table I)	☐ Performance ☒ Not Included			Commissioning §120.8 Solar Ready §110.10	*NRCC-CXR-E* *NRCC-SRA-E*

Project Name:	Santa Cruz City Schools Gault Elementary School	NRCC-PRF-01-E	Page 2 of 17
Project Address:	1320 Seabright Ave Santa Cruz 95062	Calculation Date/Time:	16:06, Fri, Nov 19, 2021
Input File Name:	Gualt ES_20211119.cibd19		

C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft ²-yr)

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	23.82	50.05	-26.23
Space Cooling	14.55	5.66	8.89
Indoor Fans	110.17	72.74	37.43
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	12.81	41.49	-28.68
Indoor Lighting	31.81	15.00	16.81
ENERGY STANDARDS COMPLIANCE TOTAL	**193.16**	**184.94**	**8.22 (4.3%)**

[1] *Notes: The number in parenthesis following the Compliance Margin in column 4. represents the Percent Better than Standard.*

C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS[1]

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	74.74	74.74	--
Process	5.81	5.81	--
Other Ltg	1.89	2.26	-0.37
Process Motors	10.97	14.46	-3.49
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**286.57**	**282.21**	**4.4 (1.5%)**

[1] *Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.*

Project Name:	Santa Cruz City Schools Gault Elementary School	NRCC-PRF-01-E	Page 3 of 17
Project Address:	1320 Seabright Ave Santa Cruz 95062	Calculation Date/Time:	16:06, Fri, Nov 19, 2021
Input File Name:	Gualt ES_20211119.cibd19		

C3. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	--	16.1	--	107.7	--	--
Space Cooling	3.6	1.3	-2.3	--	--	--
Indoor Fans	31.0	20.7	-10.3	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	0.0	13.1	--	61.6	--	--
Indoor Lighting	9.0	3.9	-5.1	--	--	-->
Compliance Total	**43.6**	**55.1**	**11.5**	**169.3**	**0.0**	**--**
Receptacle	22.9	22.9	0.0	1.5	1.5	0.0
Process	1.8	1.8	0.0	--	--	--
Other Ltg	0.6	0.7	0.1	--	--	--
Process Motors	3.1	4.1	1.0	--	--	--
TOTAL	**72.0**	**84.6**	**12.6**	**170.8**	**1.5**	**-169.3**

D. EXCEPTIONAL CONDITIONS

The aged solar reflectance and aged thermal emittance must be listed in the Cool Roof Rating Council database of certified products. For projects where initial reflectance is used, the initial reflectance must be listed, and the aged reflectance is calculated by the software program and used in the compliance model.

E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

Roof: the roof U-value has been calculated using EZFrame per CEC guidance; U-value = 0.070

Project Name:	Santa Cruz City Schools Gault Elementary School	NRCC-PRF-01-E	Page 4 of 17
Project Address:	1320 Seabright Ave Santa Cruz 95062	Calculation Date/Time:	16:06, Fri, Nov 19, 2021
Input File Name:	Gualt ES_20211119.cibd19		

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

Opaque Surfaces & Orientation	Total Gross Surface Area (ft²)	Total Fenestration Area (ft²)	Window to Wall Ratio (%)
North-Facing[1]	2,730 ft²	262 ft²	09.6%
East-Facing[2]	948 ft²	0 ft²	00.0%
South-Facing[3]	2,658 ft²	350 ft²	13.2%
West-Facing[4]	474 ft²	0 ft²	00.0%
Total	**6,810 ft²**	**612 ft²**	**09.0%**
Roof	4,472 ft²	0 ft²	00.0%

Notes:
[1] *North-Facing is oriented to within 45 degrees of true north, including 45°00'00" east of north (NE), but excluding 45°00'00" west of north (NW).*
[2] *East-Facing is oriented to within 45 degrees of true east, including 45°00'00" south of east (SE), but excluding 45°00'00" north of east (NE).*
[3] *South-Facing is oriented to within 45 degrees of true south, including 45°00'00" west of south (SW), but excluding 45°00'00" east of south (SE).*
[4] *West-Facing is oriented to within 45 degrees of true west, including 45°00'00" north of due west (NW), but excluding 45°00'00" south of west (SW).*

G2. CRRC ROOFING PRODUCT SUMMARY

Assembly Name	Roof Pitch	Aged Solar Reflectance	Thermal Emittance	SRI
Ext Roof	Low-Slope	0.74	0.84	Not Provided

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

Surface Name	Surface Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value	Units	Value	Description of Assembly Layers	Status[1]
Ext Roof	Roof	4691	Metal	30	5	U-Factor	0.047	Metal Standing Seam - 1/16 in. Compliance Insulation R5.00 Metal framed roof, 24in. OC, 9.25in., R-30 Air - Ceiling - 3 1/2 in. Gypsum Board - 1/2 in.	N

Project Name:	Santa Cruz City Schools Gault Elementary School	NRCC-PRF-01-E	Page 5 of 17
Project Address:	1320 Seabright Ave Santa Cruz 95062	Calculation Date/Time:	16:06, Fri, Nov 19, 2021
Input File Name:	Gualt ES_20211119.cibd19		

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

Surface Name	Surface Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value	Units	Value	Description of Assembly Layers	Status[1]
Ext Wall	ExteriorWall	7596	Metal	21	4	U-Factor	0.098	Wood siding - 1/2 in. Vapor permeable felt - 1/8 in. Compliance Insulation R4.00 Metal framed wall, 16in. OC, 5.5in., R-21 Gypsum Board - 1/2 in.	N
Floor over Crawlspace	ExteriorFloor	4691	NA	0	NA	U-Factor	0.104	Vented Crawl Space Concrete - 140 lb/ft3 - 2 in. Carpet - 3/4 in.	N
Interior Floor/Ceiling	InteriorFloor	4691	Metal	0	NA	U-Factor	0.165	Rubber tile - 1 in. Plywood - 1/2 in. Metal framed floor, 16in. OC, 5.5in., R-0 Acoustic Tile - 3/8 in.	N
Int Wall	InteriorWall	5313	Metal	0	NA	U-Factor	0.344	Gypsum Board - 1/2 in. Metal framed wall, 16in. OC, 3.5in., R-0 Gypsum Board - 1/2 in.	N
Int Wall to UC	InteriorWall	712	Metal	21	NA	U-Factor	0.147	Gypsum Board - 1/2 in. Metal framed wall, 16in. OC, 5.5in., R-21 Gypsum Board - 1/2 in. Gypsum Board - 1/2 in.	N

[1] *Status: N - New, A – Altered, E – Existing*

G4. OPAQUE DOOR SUMMARY

Assembly Name	Overall U-factor	Status[1]
Door	0.700	N

Project Name:	Santa Cruz City Schools Gault Elementary School	NRCC-PRF-01-E	Page 6 of 17
Project Address:	1320 Seabright Ave Santa Cruz 95062	Calculation Date/Time:	16:06, Fri, Nov 19, 2021
Input File Name:	Gualt ES_20211119.cibd19		

G5. FENESTRATION ASSEMBLY SUMMARY

Fenestration Assembly Name / Tag or I.D.	Fenestration Type / Product Type / Frame Type	Certification Method[1]	Assembly Method	Area ft²	Overall U-factor	Overall SHGC	Overall VT	Status[2]
Windows	VerticalFenestration FixedWindow MetalFraming	Default Performance	Manufactured	612	0.76	0.60	0.77	N

[1] *Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*
[2] *Status: N - New, A – Altered, E – Existing*

H1. DRY SYSTEM EQUIPMENT (furnaces, air handling units, heat pumps, VRF, economizers etc.)

Equipment Name	Equipment Type	Qty	Heating				Cooling			Economizer Type (if present)	Status[1]
			Total Heating Output (kBtu/h)	Supp Heat Output (kBtuh)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency		
HVAC-4T L01 Art Room 06	SPVHP (Packaged3Phase)	1	48	0	COP	3.30	48	EER	11.00	NoEconomizer	N
HVAC-4T L01 MultiPurpose 08	SPVHP (Packaged3Phase)	2	48	0	COP	3.30	48	EER	11.00	NoEconomizer	N
HVAC-5T L01	SPVHP (Packaged3Phase)	1	60	0	COP	3.30	60	EER	11.00	FixedDryBulb	N
HVAC-4T L02	SZHP (Packaged3Phase)	5	48	0	HSPF	8.00	48	SEER/EER	14.50/12.00	NoEconomizer	N

[1] *Status: N - New, A – Altered, E – Existing*

Project Name:	Santa Cruz City Schools Gault Elementary School	NRCC-PRF-01-E	Page 7 of 17
Project Address:	1320 Seabright Ave Santa Cruz 95062	Calculation Date/Time:	16:06, Fri, Nov 19, 2021
Input File Name:	Gualt ES_20211119.cibd19		

H2. FAN SYSTEMS SUMMARY

Name or Item Tag	Qty	Design OA	Supply Fan					Return Fan				Status[1]
		CFM	CFM	Modeling Method	Power	Power Units	Control	CFM	Modeling Method	Power	Power Units	Control	
HVAC-4T L01 Art Room 06	1	370	1600	StaticPressure	1.500	inH2O	ConstantVolume	NA	NA	NA	NA	NA	N
HVAC-4T L01 MultiPurpose 08	2	516	1600	StaticPressure	1.500	inH2O	ConstantVolume	NA	NA	NA	NA	NA	N
HVAC-5T L01	1	0	2000	StaticPressure	1.750	inH2O	ConstantVolume	NA	NA	NA	NA	NA	N
HVAC-4T L02	5	340	1600	StaticPressure	1.500	inH2O	ConstantVolume	NA	NA	NA	NA	NA	N

[1] *Status: N - New, A – Altered, E – Existing*

H3. EXHAUST FAN SUMMARY

System ID	Zone Name	Qty	CFM	Motor BHP	Power Per Flow (W/cfm)	Total Static Pressure (in. H_2O)	Status[1]
EF-1 - EF-3	Zn L01 RRs 11-14	6	242	0.180	0.649	3.07	N
EF-2	Zn L01 Kitchen	1	210	0.146	0.606	2.87	N

[1] *Status: N - New, A – Altered, E – Existing*

H4. Wet System Equipment(boilers,chillers,cooling towers,etc.)

This Section Does Not Apply

H5. PUMPS

This Section Does Not Apply

H6. SYSTEM SPECIAL FEATURES

System Name	Equipment Type	Window Interlocks per §140.4(n)	Other Special Features and Controls
HVAC-4T L01 Art Room 06	SPVHP	No	NA

Project Name:	Santa Cruz City Schools Gault Elementary School	NRCC-PRF-01-E	Page 8 of 17
Project Address:	1320 Seabright Ave Santa Cruz 95062	Calculation Date/Time:	16:06, Fri, Nov 19, 2021
Input File Name:	Gualt ES_20211119.cibd19		

H6. SYSTEM SPECIAL FEATURES

System Name	Equipment Type	Window Interlocks per §140.4(n)	Other Special Features and Controls
HVAC-4T L01 MultiPurpose 08	SPVHP	No	NA
HVAC-5T L01	SPVHP	No	Fixed DryBulb Economizer
HVAC-4T L02	SZHP	No	NA
SHW	Service Hot Water, Primary Only	NA	Fixed Temperature Control

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.

H7. NONRESIDENTIAL VENTILATION

Zone Name	Mechanical Ventilation					DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of people	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	
Zn L01 Art Room 06	Education - Classrooms (ages 9-18)	24.33	370	0	973	NA
Zn L01 Kitchen	Exhaust - Kitchenettes	1.15	0	210	461	NA
Zn L01 MultiPurpose 08	NA Education - Classrooms (ages 9-18)	67.92	1032	0	2717	NA
Zn L02 Classrooms	Education - Classrooms (ages 9-18)	111.81	1700	0	4472	NA

H8. HIGH-RISE RESIDENTIAL DWELLING UNIT AND HOTEL/MOTEL VENTILATION

This Section Does Not Apply

H9. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

System ID	Zone Name	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
				Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	VSD
Zn L01 Art Room 06_TU	Zn L01 Art Room 06	Uncontrolled	1	NA	NA	1300	NA	0.00	1.500	inH2O	NA	☐

Project Name:	Santa Cruz City Schools Gault Elementary School	NRCC-PRF-01-E	Page 9 of 17
Project Address:	1320 Seabright Ave Santa Cruz 95062	Calculation Date/Time:	16:06, Fri, Nov 19, 2021
Input File Name:	Gualt ES_20211119.cibd19		

H9. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

System ID	Zone Name	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
				Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	VSD
Zn L01 MultiPurpose 08_TU	Zn L01 MultiPurpose 08	Uncontrolled	2	NA	NA	1600	NA	0.00	1.500	inH2O	NA	☐
Zn L01 Kitchen_TU	Zn L01 Kitchen	Uncontrolled	1	NA	NA	2000	NA	0.00	1.750	inH2O	NA	☐
HVAC-4T L02_TU	Zn L02 Classrooms	Uncontrolled	5	NA	NA	1600	NA	0.00	1.500	inH2O	NA	☐

H10. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

H11. HEAT RECOVERY SUMMARY

This Section Does Not Apply

I1. WATER HEATER EQUIPMENT SUMMARY

Name	Heater Element Type	Tank Type	Qty	Tank Vol (gal)	Rated Input	Rated Input Unit	Efficiency	Efficiency Unit	Tank Insulation R-value (hr/f2at)	Standby Loss Fraction	1st Hour Rating or Flow Rate (gal)	Heat Pump Type	Tank Location or Ambient Condition
PROE30 1 RH93 POU	Electricity	Storage	1	30.00	4.4	kW	0.93	UEF	NA	NA	NA	NA	NA

Project Name:	Santa Cruz City Schools Gault Elementary School	NRCC-PRF-01-E	Page 10 of 17
Project Address:	1320 Seabright Ave Santa Cruz 95062	Calculation Date/Time:	16:06, Fri, Nov 19, 2021
Input File Name:	Gualt ES_20211119.cibd19		

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

Occupancy Type [1]	Conditioned Floor Area [2] (ft²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance	
				Area Category Footnotes (Watts)	Tailored Method (Watts)
Classroom, Lecture, Training, Vocational Areas	8,163	3,600	0	0	0
Kitchenette or Residential Kitchen	461	200	0	0	0
Building Totals:	**8,624**	**3,800**	**0**	**0**	**0**

[1] *See Table 140.6-C*
[2] *See NRCC-LTI-01-E for unconditioned spaces*
[3] *Lighting information for existing spaces modeled is not included in the table*

K2. INDOOR CONDITIONED LIGHTING SCHEDULE

Luminaire Schedule (Includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft² in offices)

Name or Item Tag	Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Installed Watts (Conditioned)			
		Watts per luminaire	How Wattage is Determined	Total Number Luminaires	Installed Watts
2x4	SFP24 LED	50	According to §130.0(c)	76	3,800

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (Includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)

Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaires	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
L01 Art Room 06	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00 0.00	2x4	200.0	4	200	0

Project Name:	Santa Cruz City Schools Gault Elementary School	NRCC-PRF-01-E	Page 11 of 17
Project Address:	1320 Seabright Ave Santa Cruz 95062	Calculation Date/Time:	16:06, Fri, Nov 19, 2021
Input File Name:	Gualt ES_20211119.cibd19		

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (Includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)

Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaires	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
			0.00					
L01 Art Room 06	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00 0.00	2x4	200.0	4	200	0
L01 Kitchen	Kitchenette or Residential Kitchen	NA	0.00 0.00 0.00 0.00 0.00 0.00	2x4	200.0	4	200	0
L01 MultiPurpose 08	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00 0.00	2x4	600.0	12	600	0
L01 MultiPurpose 08	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00 0.00	2x4	600.0	12	600	0
L02 Classroom 01	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00 0.00	2x4	200.0	4	200	0
L02 Classroom 01	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00 0.00	2x4	200.0	4	200	0

Project Name:	Santa Cruz City Schools Gault Elementary School	NRCC-PRF-01-E	Page 12 of 17
Project Address:	1320 Seabright Ave Santa Cruz 95062	Calculation Date/Time:	16:06, Fri, Nov 19, 2021
Input File Name:	Gualt ES_20211119.cibd19		

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (Includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)

Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaires	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
			0.00					
L02 Classroom 02	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00 0.00	2x4	200.0	4	200	0
L02 Classroom 02	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00 0.00	2x4	200.0	4	200	0
L02 Classroom 03	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00 0.00	2x4	200.0	4	200	0
L02 Classroom 03	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00 0.00	2x4	200.0	4	200	0
L02 Classroom 04	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00 0.00	2x4	200.0	4	200	0
L02 Classroom 04	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00 0.00	2x4	200.0	4	200	0
L02 Classroom 05	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00	2x4	200.0	4	200	0

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
PATRICK DUNN
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS
1
2
3
4

DRAWN BY: WY
SCALE: AS NOTED
DATE: 06/21/22
PROJECT NO: 1657-21

SHEET TITLE:
ENERGY CALCULATIONS

SHEET NUMBER:
EN.1

05-XXXX 2-Story 48' -20R 44' -2MVEI 10/10/2021 12:23 PM PLOTTED 6/21/2022 10:45 AM W:\Projects\05-0999-000-000\05-0999-000-F1 Santa Cruz City Schools - Gault ES\PRELIM\ARCH\05-0999-000-F1 - Gault ES - Energy Calculations.dwg

Project Name:	Santa Cruz City Schools Gault Elementary School	NRCC-PRF-01-E	Page 13 of 17
Project Address:	1320 Seabright Ave Santa Cruz 95062	Calculation Date/Time:	16:06, Fri, Nov 19, 2021
Input File Name:	Gualt ES_20211119.cibd19		

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)

1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaires	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
L02 Classroom 05	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00 0.00 0.00	2x4	200.0	4	200	0

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS

Building Level Controls

1	2
Mandatory Demand Response §110.12(c)	**Shut-Off Controls §130.1(c)**
NA	Required

Area Level Controls (includes all lighting controls installed in conditioned space to meet mandatory requirements per §130.1)

4	5	6	7	8	9	10
Area Description	**Area Category Primary Function Area**	**Area Controls 130.1(a)**	**Multi-Level Controls 130.1(b)**	**Shut-Off Controls 130.1(c)**	**Primary Daylighting 130.1(d)**	**Secondary Daylighting 140.5(d)**
Multi Purpose 08 All Classrooms Art Room 06 Kitchen RR/Storage Rooms	Classroom, Lecture, Training, Vocational Areas Classroom, Lecture, Training, Vocational Areas Classroom, Lecture, Training, Vocational Areas Kitchen/Food Preparation Area Restrooms	Required Required Required Required Required	Exempt Exempt Exempt Exempt Exempt	Required Required Required Required Required	Required Required Required NA NA	Required Required Required NA NA

Project Name:	Santa Cruz City Schools Gault Elementary School	NRCC-PRF-01-E	Page 14 of 17
Project Address:	1320 Seabright Ave Santa Cruz 95062	Calculation Date/Time:	16:06, Fri, Nov 19, 2021
Input File Name:	Gualt ES_20211119.cibd19		

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents bust be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Plumbing	NRCI-PLB-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-01-E - Must be submitted for all buildings NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS) to be recognized for compliance

Project Name:	Santa Cruz City Schools Gault Elementary School	NRCC-PRF-01-E	Page 15 of 17
Project Address:	1320 Seabright Ave Santa Cruz 95062	Calculation Date/Time:	16:06, Fri, Nov 19, 2021
Input File Name:	Gualt ES_20211119.cibd19		

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls NRCA-LTI-03-A - Automatic Daylight Controls
Mechanical	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap NRCA-MCH-03-A Constant Volume Single Zone HVAC NRCA-MCH-05-A Air Economizer Controls NRCA-MCH-12-A FDD for Packaged Direct Expansion Units NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance NRCA-MCH-19 Occupancy Sensor Controls

Project Name:	Santa Cruz City Schools Gault Elementary School	NRCC-PRF-01-E	Page 16 of 17
Project Address:	1320 Seabright Ave Santa Cruz 95062	Calculation Date/Time:	16:06, Fri, Nov 19, 2021
Input File Name:	Gualt ES_20211119.cibd19		

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents bust be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/

Building Component	Form/Title
Mechanical	NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation NRCV-MCH-32-H Local Mechanical Exhaust

Project Name:	Santa Cruz City Schools Gault Elementary School	NRCC-PRF-01-E	Page 17 of 17
Project Address:	1320 Seabright Ave Santa Cruz 95062	Calculation Date/Time:	16:06, Fri, Nov 19, 2021
Input File Name:	Gualt ES_20211119.cibd19		

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Hans Marsman LEED AP	Signature:	Digitally signed by Hans Marsman LEED AP, CEA Date: 2021-11-19 16:24:19-08'00'
Company: Marsman Consulting		
Address: 1150 J Street, Unit 101	Signature Date: 2021-11-19	
City/State/Zip: San Diego CA 92101	CEA/ HERS Certification Identification (if applicable):	
Phone: (619) 573-4374		

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Envelope Designer Name: Designer Name	Signature:	
Company: Gensler		
Address: 225 Broadway, Suite 1600	Date Signed:	
City/State/Zip: San Diego CA 92101		
Phone: 619.557.2500	Title: Architect	License #: License
Responsible Lighting Designer Name: Randall P Cavanagh	Signature: Randall Cavanagh	
Company: American Modular Systems	Gen7 Schools	
Address: 787 Spreckels Avenue	Date Signed: 12/01/21	
City/State/Zip: Manteca CA 95336		
Phone: 209.825.1921	Title: Architect	License #: C12631
Responsible Mechanical Designer Name: American Modular Systems	Gen7 Schools	Signature: Randall Cavanagh
Company: American Modular Systems	Gen7 Schools	
Address: 787 Spreckels Avenue	Date Signed: 12/01/21	
City/State/Zip: Manteca CA 95336		
Phone: 209.825.1921	Title: Architect	License #: C12631

G:\XXXXX - Jobs.sdf - ZIP 4.0 - 64VCD - 11/4/2021 1:12:23 PM - PLOTTED: 3/2/2022 9:54 AM - W:\Projects\500-599\500-599\657-21 Santa Cruz City Schools Gault ES\PRELIM\ARCH\PDOT - 22 - 11X17.ctb - CNA - Gault ES - Energy Calculations.dwg

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK RICHARD LUCERO
No. C-34138
Ren. 8-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
REGISTERED PROFESSIONAL ENGINEER
PATRICK DAVID HANNON
No. C12631
Ren. 9-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
ENERGY CALCULATIONS

SHEET NUMBER:
EN.2

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Santa Cruz City Schools Gault Elementary School	Report Page:	(Page 1 of 7)
Project Address:		Date Prepared:	2021-11-19T17:19:33-05:00

A. GENERAL INFORMATION

01	Project Location (city)	Santa Cruz		
02	Climate Zone	3		
03	Outdoor Lighting Zone per Title 24 Part 1 §10-114 or as designated by Authority Having Jurisdiction (AHJ):		04	Total Illuminated Hardscape Area (ft²) 0
☐	LZ-0: Very Low - Undeveloped Parkland	☐ LZ-2: Moderate - Rural Areas	☐	LZ-4: High - Must be reviewed by CA Energy Commission for Approval
☐	LZ-1: Low - Developed Parkland	☒ LZ-3: Moderately High - Urban Areas		

B. PROJECT SCOPE
This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2L for alterations.

My Project Consists of:

01	02
☒ New Lighting System	Must Comply with Allowances from §140.7
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? ○ Yes ○ No

03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%		

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.*

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601
Registration Provider: Energy Code Ace Report Generated: 2021-11-19 14:19:30

C. COMPLIANCE RESULTS
Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L										Compliance Results			
01		02		03		04		05	OR	06	=	07	08	09
General Hardscape Allowance §140.7(d)1 (See Table I)	+	Per Application §140.7(d)2 (See Table J)	+	Sales Frontage §140.7(d)2 (See Table K)	+	Ornamental §140.7(d)2 (See Table L)	+	Per Specific Area §140.7(d)2 (See Table M)	OR	Existing Power Allowance §141.0(b)2L (See Table N)	=	Total Allowed (Watts)	≥ Total Actual (Watts)	07 must be >= 08
350	+	285	+	----	+	----	+	----	OR	----	+	635	≥ 375	COMPLIES
Cutoff Compliance (See Table G for Details)														N/A
Controls Compliance (See Table H for Details)														COMPLIES with Exceptional Conditions

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with unedittable comments because of selections made or data entered in tables throughout the form.

H. Outdoor Lighting Controls Applicant Notes	[Entry Door(s): Ext Ltg Fixture @ Each Door] [Motion Sensor Exemption) Non-pole mounted luminaires with a maximum rated wattage of 30 watts each

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601
Registration Provider: Energy Code Ace Report Generated: 2021-11-19 14:19:30

F. OUTDOOR LIGHTING FIXTURE SCHEDULE
For new or altered lighting systems demonstrating compliance with §140.7 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2I, only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total number luminaires[3]	Luminaire Status[3]	Excluded per §140.7(a)	Design Watts	Cutoff Req. > 6,200 initial lumen output §130.2(b)[4]	Field Inspector	
										Pass	Fail
Ext Ltg Fixture @ Each Door	ARC1 LED - 25 Watt	☐ Linear	25	Mfr. Spec	15	New	☐	375	NA: < 6200 lumens	☐	☐
Total Design Watts:								375			

** NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.*
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b)

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)*
[2] *For linear luminaires, wattage should be indicated as W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*
[3] *Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.*
[4] *Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.2(b)*

G. CUTOFF REQUIREMENTS (BUG)
This section does not apply to this project.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601
Registration Provider: Energy Code Ace Report Generated: 2021-11-19 14:19:30

H. OUTDOOR LIGHTING CONTROLS
This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
*When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Mandatory Controls

01	02	03	04	05	
Area Description	Shut-Off §130.2(c)1	Auto-Schedule §130.2(c)2	Motion Sensor §130.2(c)3	Field Inspector	
				Pass	Fail
Entry Door(s): Ext Ltg Fixture @ Each Door	Astronomical Timer	Yes	Exempt*	☐	☐

** NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.*
EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c)

Entry Door(s): Ext Ltg Fixture @ Each Door	[Motion Sensor Exemption) Non-pole mounted luminaires with a maximum rated wattage of 30 watts each

I. LIGHTING POWER ALLOWANCE (per §140.7)
This table includes areas using allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lose it" Allowances are per Table 140.7-B . Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

	01				
	☐ General Hardscape Allowance Table I (below)	"Use it or lose it" Allowance (select all that apply) (select all that apply)			
		☒ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M
Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 0, 1 & 4)					
Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 2 & 3)					

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601
Registration Provider: Energy Code Ace Report Generated: 2021-11-19 14:19:30

J. LIGHTING ALLOWANCE: PER APPLICATION
This table includes areas using the wattage allowance per application from Table 140.7-B .

01	02	03	04	05	06	07	08	09	10
		CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				
Area Description	Application per Table 140.7-B[1]	# of Locations	Allowance per Location[2]	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
Entry Door(s)	Building Entrance/Exit	15	19	285	Ext Ltg Fixture @ Each Door	25	15	375	285
						Total Design Watts for this Area:		375	
						Total Allowance (Watts) All Areas:			285

[1] *FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.*
[2] *The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B .*
[3] *For luminaires indicated in Table F as linear, wattage in column 07 is W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.*

K. LIGHTING ALLOWANCE: SALES FRONTAGE
This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL
This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA
This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)
This section does not apply to this project.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601
Registration Provider: Energy Code Ace Report Generated: 2021-11-19 14:19:30

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-LTO-01-E - Must be submitted for all buildings	☐	☐
NRCI-LTO-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	Entry Door(s): Ext Ltg Fixture @ Each Door	☐	☐

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601
Registration Provider: Energy Code Ace Report Generated: 2021-11-19 14:19:30

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Hans Marsman	Documentation Author Signature:	
Company:	Marsman Consulting	Signature Date:	
Address:	340 S Lemon Ave #5726	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	Walnut, CA 91789	Phone:	(619) 573-6374

Digitally signed by Hans Marsman LEED AP, CEA Date: 2021.11.19 16:24:41 -08'00'

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Randall P Cavanaugh	Responsible Designer Signature:	
Company:	American Modular Systems (Gen7 Schools	Date Signed:	12/01/21
Address:	787 Spreckels Avenue	License:	C12631
City/State/Zip:	Manteca, CA 95336	Phone:	209.825.1921

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601
Registration Provider: Energy Code Ace Report Generated: 2021-11-19 14:19:30

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT — RANDALL PATRICK CAVANAUGH — No. C12631 — Ren. 3-31-23 — STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT — RANDALL PATRICK CAVANAUGH — No. C12631 — Ren. 3-31-23 — STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
ENERGY CALCULATIONS

SHEET NUMBER:
EN.3

D:\XXXXXX - Jobs\ at - 22# at\" SAVED: 12/1/2021 12:22 PM PLOTTED: 6/1/2022 8:48 AM W:\Projects\1656-1699\000-1699\1657-21 Santa Cruz City Schools Gault ES\PRELIM\MAP\CMP\01 - ID - 119189 - EN.1 - Cover Sheet.dwg

STATE OF CALIFORNIA
Solar Ready Areas
NRCC-SRA-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SRA-E
This document is used to demonstrate compliance with mandatory requirements in §110.10 for newly constructed buildings which are either high-rise multifamily ten stories or fewer, hotel/motel ten stories or fewer or all other nonresidential buildings three sotries or fewer. It is also used to demonstrate compliance with additions to these building types which add more than 2,000 ft² of roof area. Alterations or additions of less than 2,000 ft² are not required to comply with §110.10.	
Project Name: Santa Cruz City Schools Gault Elementary School	**Report Page:** (Page 1 of 5)
Project Address:	**Date Prepared:** 2021-11-19T17:18:39-05:00

A. GENERAL INFORMATION

01	Project Location (city)	Santa Cruz	04	Building Type	Other nonresidential bldg 3 stories or fewer
02	Climate Zone	3	05	Construction Type	New Construction
03	☐ Roof is designed for vehicle traffic, parking or for heliport				
03a	Plan sheet showing roof design for vehicle traffic, parking or heliport exception:				

B. PROJECT SCOPE

The compliance path the project is using to comply per §110.10(b)1B is indicated below.

My project consists of (check one):

	1
☒	Provide Solar Ready Area no exceptions
☐	Exception to Solar Ready Area: Installed Solar Photovoltaic System
☐	Exception to Solar Ready Area: Installed Solar Water Heating System
☐	Exception to Solar Ready Area: Smart Thermostat and Alternative Energy Efficiency Measure

The project has allocated a solar zone on the roof plan per requirements in §110.10(b), as documented in Table F.	
The project includes a permanently installed solar electric system having a nameplate DC power rating, measured under Standard Test Conditions, of no less than one watt per square foot of roof area as documented in Table G.	
The project is a hotel/motel or high-rise multifamily occupancy and includes a permanently installed domestic solar water-heating system complying with §150.1(c)8B(ii) and Reference Residential Appendix RA4, as documented in Table H.	
The project is a high-rise multifamily occupancy where all thermostats in each dwelling unit comply with §110.12(a) AND at least one additional measure listed in Exception 4 to §110.10(b)1B is installed, as documented in Table I.	

STATE OF CALIFORNIA
Solar Ready Areas
NRCC-SRA-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SRA-E
Project Name: Santa Cruz City Schools Gault Elementary School	**Report Page:** (Page 2 of 5)
Project Address:	**Date Prepared:** 2021-11-19T17:18:39-05:00

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance or see the applicable Table referenced below.

Allocated Solar Zone			Installed PV System				Installed SWH System				Smart Tstat and Alternative EE Measure		
01	02		03	04		05	06		07	08	09	
Required Minimum Area (ft²)	<=	Designated Area (ft²)	OR	Required Minimum DC Power Rating (Watts)	<=	Designed DC Power Rating (Watts)	OR	Required Minimum Solar Savings Fraction	<=	Designed/Rated Solar Savings Fraction	OR	JA5 Compliant Thermostat Specified?	Alternative Energy Efficiency Measure	
(See Table F)				(See Table G)				(See Table H)				(See Table I)		
679.5	<=	700	OR		--		OR		--		OR			COMPLIES
T24-5			OR	Location within the construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/plumbing to the electrical service/ water heating system per §110.10(c).										COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Solar Ready Areas
NRCC-SRA-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SRA-E
Project Name: Santa Cruz City Schools Gault Elementary School	**Report Page:** (Page 3 of 5)
Project Address:	**Date Prepared:** 2021-11-19T17:18:39-05:00

F. ALLOCATED SOLAR ZONE

This table is completed if the project is designating a solar zone to comply with §110.10(b)1B. New construction consider the total roof area; Additions consider newly added roof area. This table demonstrates that the project has designated the minimum area required for the Allocated Solar Zone, and also that the requirements for Solar Zone Subareas have been met. Each subarea must be shown on a roof plan or documented in construction documents. The solar zones must also comply with fire code requirements, including, but not limited to, setback and pathway requirements. Requirements for interconnection pathways must also be included in construction documents, and the location is specified in this table.

Required Minimum Solar Zone

01	02	03	04	05	06		07	08
					Potential Solar Zone Areas: Roof areas with >= 70% Solar Access			
Minimum Solar Zone Area Calculation Method	Total New or Added Roof Area (ft²)	Total New or Added Roof Area Covered with Skylights (ft²)	Minimum Solar Zone Based on Total or Added Roof Area (0.15 x (Roof-Sky-Rl)) (ft²)	Method/ Tools Used to Determine Annual Solar Access for Potential Zones[1]	Low-Sloped Area (<= 2:12 pitch) (ft²)	Steep-Sloped Area (> 2:12 pitch) Oriented 90 ° - 300 ° (ft²)	Minimum Solar Zone Based on Potential Zone (0.5 x (Total Potential Zone)) (ft²)	Required Minimum Solar Zone Area (ft²)
Total New or Added Roof Area	4530	0	679.5					679.5

Designated Solar Zone Subareas

09	10	11	12	13	14	15	16	17	18	19
Subarea Name or Tag	Building Plan Reference	Roof or Overhang Slope (Low <= 2:12 pitch) (Steep > 2:12 pitch)	Is Steep-Sloped Roof or Overhang between 90 and 300 degrees?	Subarea Complies with Title 24, Part 9	Solar Zone Subarea Free of Obstructions per §110.10(b)3A	Subarea is Required Distance from Potential Obstructions per §110.10(b)3 B	Is the Smallest Dimension 5 feet or greater?	Min. Area Required per Subarea (ft²)	Designated Area (ft²)	Subarea Complies?
Solar Area	T24-5	LowSlope		Yes	Yes	Yes	Yes	80	700	COMPLIES
							Total Designated Solar Zone Area (ft²)		700	

STATE OF CALIFORNIA
Solar Ready Areas
NRCC-SRA-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SRA-E
Project Name: Santa Cruz City Schools Gault Elementary School	**Report Page:** (Page 4 of 5)
Project Address:	**Date Prepared:** 2021-11-19T17:18:39-05:00

Interconnection Pathways

Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per §110.10(c).	T24-5

[1]FOOTNOTE: This field is used to document how the percentage of annual solar access was determined per §110.10(b)1B. Solar access is the ratio of solar insolation including shade to the solar insolation without shade. Shading from obstructions located on the roof or any other part of the building shall not be included in the determination of annual solar access.

G. PERMANENTLY INSTALLED SOLAR PHOTOVOLTAIC (PV) SYSTEM

This section does not apply to this project.

H. PERMANENTLY INSTALLED SOLAR HOT WATER SYSTEMS

This section does not apply to this project.

I. SMART THERMOSTATS AND ALTERNATIVE EFFICIENCY MEASURE

This section does not apply to this project.

J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

There are no NRCI forms required for this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to solar ready requirements.

STATE OF CALIFORNIA
Solar Ready Areas
NRCC-SRA-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SRA-E
Project Name: Santa Cruz City Schools Gault Elementary School	**Report Page:** (Page 5 of 5)
Project Address:	**Date Prepared:** 2021-11-19T17:18:39-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Hans Marsman	Documentation Author Signature:	
Company:	Marsman Consulting	Signature Date:	Digitally signed by Hans Marsman, LEED AP, CEA Date: 2021.11.19 16:24:34-08'00'
Address:	340 S Lemon Ave #5726	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	Walnut, CA 91789	Phone: (619) 573-6374	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Randall P Cavanaugh	Responsible Designer Signature:	
Company:	American Modular Systems	Date Signed:	12/01/21
Address:	787 Spreckels Avenue	License:	C12631
City/State/Zip:	Manteca, CA 95336	Phone:	209.825.1921

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
RANDALL PATRICK CAVANAUGH
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
RANDALL PATRICK CAVANAUGH
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION
UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

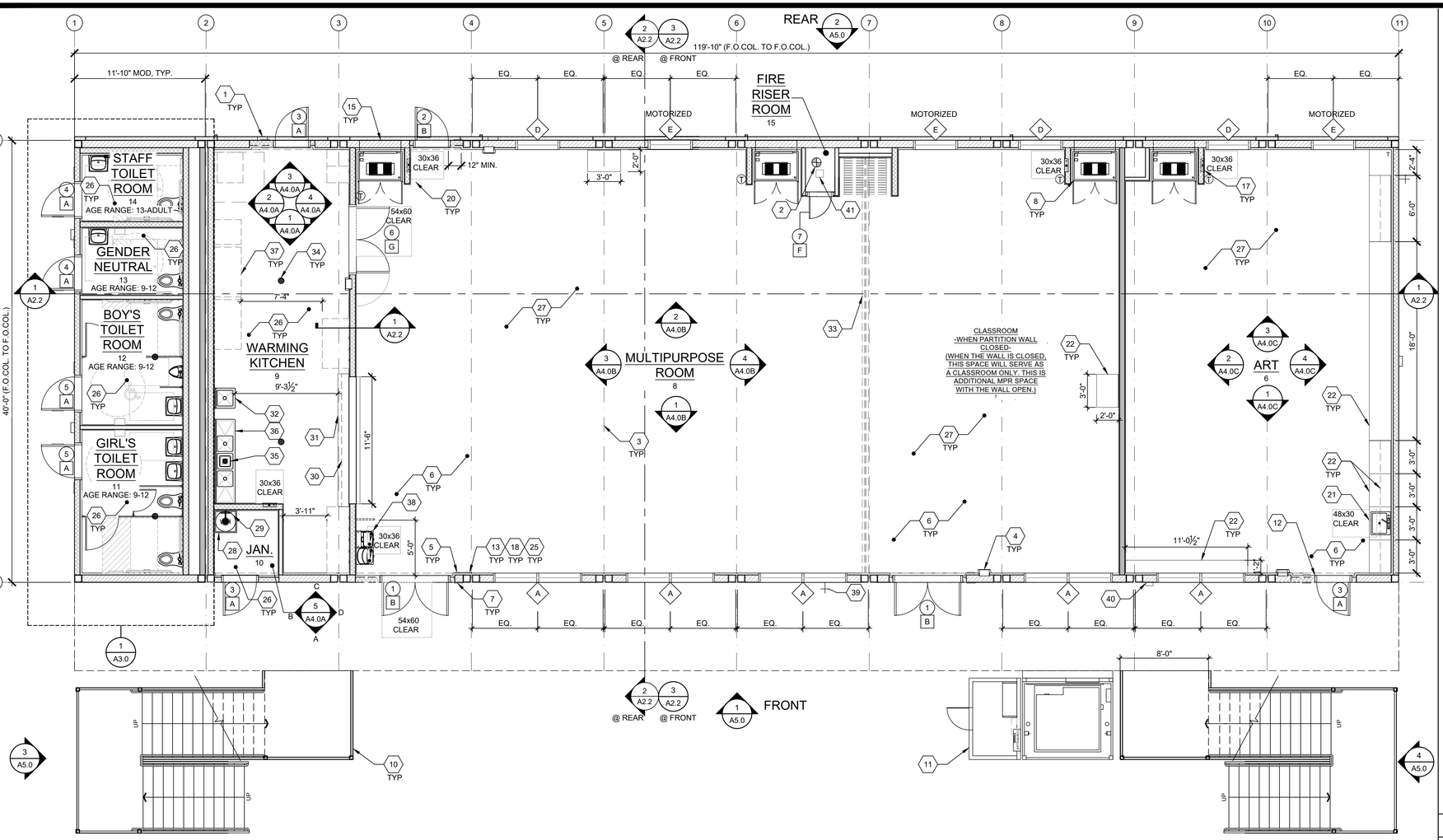
REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
ENERGY CALCULATIONS

SHEET NUMBER:
EN.4

G:\XXXXX - Jobs ref - 20'-4.40" SAVED: 3/14/2021 2:23 PM PLOTTED: 6/21/2022 9:44 AM W:\Projects\1500-1599\1600-1699\1657-21 Santa Cruz City Schools Gault ES\PRELIM\ARCH\Vol1_02 - 119149 - Ch. 1 - Gault ES - Energy Consultation.dwg



NOTE: REFER TO A1.1 FOR WALL LEGEND

NOTE:
1. ALL SIGNAGE BY OTHERS, FOR EXACT LOCATIONS REFER TO A0.2 FOR SIGNAGE PLAN

GROUND FLOOR PLAN

SCALE: 3/16" = 1' - 0" | 1

1. EXTERIOR LIGHT - SEE ELECTRICAL PLANS
2. FIRE RISER
3. TYPICAL MOD LINE
4. SEMI-RECESSED FIRE EXTINGUISHER. TOP OF HANDLE @ +48" AFF. 4" MAX PROTRUSION FROM WALL IF FIRE EXTINGUISHER IS ABOVE 27" A.F.F. - PER 5/A5.1B
5. TACTILE EXIT SIGN PER DETAIL 10/N4.0 (BY OTHERS)
6. EGRESS AREA
7. ROOM SIGNAGE AND ISA PER DETAILS 5&9/N4.0 (BY OTHERS)
8. INDOOR HVAC UNIT
9. CARPET
10. STAIRS - REFER TO SHEET S11.0 FOR DETAILS
11. ELEVATOR (ELEVATOR & CONTROLLER ROOM ARE NOT PART OF THIS APPROVAL)
12. RECESSED ENTRY DOOR- SEE INTERIOR ELEVATIONS ON A4.0
13. OCCUPANT LOAD SIGN PER DETAIL 11/N4.0 (BY OTHERS)
14. DOWNSPOUT - DISCHARGE TO SPLASH BLOCK (U.O.N.) (QUANTITY AND LOCATION MAY VARY)
15. HVAC GRILL - SEE MECHANICAL
16. TALL CABINET - REFER TO A7.1 FOR BLOCKING
17. ELECTRICAL PANEL (LOCATION MAY VARY)
18. FLOOR LIVE LOAD SIGN PER 2019 CBC SECTION 106.1. REQUIRED ONLY FOR COMMERCIAL OR INSTITUTIONAL BUILDINGS DESIGNED WITH LIVE LOADS EXCEEDING 50 PSF) WHERE 150 PSF LIVE LOAD IS SPECIFIED, THE TEXT "LONG TERM STORAGE NOT PERMITTED" SHALL ALSO BE INCLUDED
19. NON-ABSORBENT FLOOR AREA (2'-0" MIN. IN ALL DIRECTIONS @ ALL ENTRY DOOR) CHANGES IN LEVEL ARE NOT PERMITTED IN DOOR MANEUVERING CLEARANCE UNLESS NON-ABSORBENT MATERIAL IS FLUSH WITH CARPET (11B-404.2.4).
20. THERMOSTAT - TOP OF BOX @ 46" A.F.F. - LOCATION MAY VARY
21. CASEWORK W/SINK - REFER TO A7.1 FOR BLOCKING & 3/-
22. CASEWORK - REFER TO A7.1 FOR BLOCKING
23. NOT USED
24. NOT USED
25. ASSISTIVE LISTENING (AL) SIGN POSTED IN PROMINENT PLACE AT OR NEAR THE ENTRANCE PER 17/N4.0.
26. EPOXY FLOORING
27. VCT FLOORING
28. MOP SINK
29. WATER HEATER
30. ROLL-UP WINDOW
31. SERVING COUNTER
32. HAND WASHING SINK
33. FOLDING PARTITION WALL
34. FLOOR DRAIN
35. FLOOR SINK
36. 3 SINK WASH-OUT SINK
37. ACCESSORIES (BY OTHERS)
38. DRINKING FOUNTAIN AND GUARD RAILS 10/A7.2
39. HOSE BIB
40. 2-WAY COMM. SYSTEM (BY SITE CONTRACTOR)
41. FLOOR BLOCK OUT PER 1/S2.0 FIRE SPRINKLER RISER NOT TO BE BLOCKED

KEYNOTES

- X/# = MECHANICAL OR PLUMBING FIXTURE - SEE MECHANICAL OR PLUMBING DRAWINGS
- X = KEY NOTE - SEE KEY NOTES ABOVE
- X = DOOR TYPE - SEE SCHEDULE, SHEET N3.0
- X = DOOR HARDWARE - SEE HARDWARE SCHEDULE, SHEET N3.0
- X = WINDOW TYPE - SEE SCHEDULE, SHEET N3.0

WALL LEGEND | 2

- 4" MTL STUD - 362S125-30
- 6" MTL STUD - 600S162-33
- 8" MTL STUD - 800S162-33
- 4" BUMP OUT MTL STUD - 400S162-43
- FIRE - RATED WALL = SOLID

SYMBOLS LEGEND

SHEET NOTES

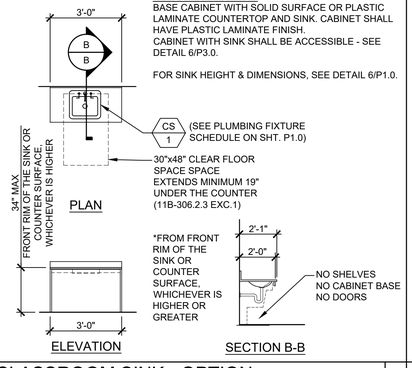
1. NOT USED
2. OPTIONAL INTERIOR WALLS MAY OCCUR THROUGHOUT THE BUILDING AS CONSTRUCTED PER SHEETS S9.1. THE TITLE 24 HAS BEEN RUN FOR THE WORST CASE ENVELOPE BASED ON AREA.
3. PANIC HARDWARE COMPLYING WITH C.B.C. 1010.1.10 IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER.
4. IF OCCUPANCY LOAD EXCEEDS 50, PROVIDE A SECOND EXIT DOOR, PER CBC TABLE 1006.2.1.
5. FOR ROOMS OR SPACES CLASSIFIED AS AN ASSEMBLY OCCUPANCY, PROVIDE AN OCCUPANT LOAD SIGN (BY OTHERS) IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT, PER C.B.C. SECTION 1004.9.
6. ALL PRIMARY EXTERIOR DOOR ENTRIES SHALL BE COVERED TO PREVENT WATER INTRUSION BY USING NONABSORBENT FLOOR AND WALL FINISHES WITHIN AT LEAST 2 FEET AROUND AND PERPENDICULAR TO OPENING, PER CALGREEN, SECTION 5.407.2.2.1.
7. PRIMARY EXTERIOR DOOR ENTRIES SHALL HAVE AT LEAST ONE OF THE FOLLOWING:
   - INSTALLED AWNING AT LEAST 4 FEET IN DEPTH (BY OTHERS).
   - OPTIONAL SIDE WALL CANOPY (4 FEET IN DEPTH) PER SHEET S5.4A.
   - ROOF OVERHANG AT LEAST 4 FEET IN DEPTH.
   - DOOR RECESSED AT LEAST 4 FEET.
   - OTHER METHODS WHICH PROVIDE EQUIVALENT PROTECTION (BY OTHERS).
8. WINDOW PLACEMENT & SIZE MAY VARY AS THE TITLE 24 HAS BEEN RUN FOR THE WORST CASE ENVELOPE PROVIDED THAT THE MAXIMUM WINDOW AREA IS 400 SQ.FT. FOR A SINGLE ROOM. JUSTIFICATION OF LARGER AREAS MAY BE BASED ON RATIO AND INTERPOLATION.

SITE NOTE

3/16:12 (1%) MINIMUM TO 1/4:12 (2%) MAXIMUM GRADE FROM FACE OF BUILDING MUST BE ADHERED TO FOR WATER RUN-OFF. PONDING MAY OCCUR AROUND THE PERIMETER OF THE BUILDING.

CLASSROOM SINK - OPTION

SCALE: 3/16" = 1' - 0" | 3



IN-ROOM SINK OPTION
BASE CABINET WITH SOLID SURFACE OR PLASTIC LAMINATE COUNTERTOP AND SINK. CABINET SHALL HAVE PLASTIC LAMINATE FINISH.
CABINET WITH SINK SHALL BE ACCESSIBLE - SEE DETAIL 6/P3.0.

FOR SINK HEIGHT & DIMENSIONS, SEE DETAIL 6/P1.0.

30"x48" CLEAR FLOOR SPACE SPACE EXTENDS MINIMUM 19" UNDER THE COUNTER (11B-306.2.3 EXC.1)

ENERGY NOTES

ENERGY CONTROLS

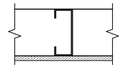
1. DEMAND RESPONSE CONTROLS:
   ONLY REQUIRED IN BUILDINGS LARGER THAN 10,000 S.F., THEREFORE, NOT REQUIRED.
2. AUTOMATIC DAYLIGHTING CONTROLS:
   NOT REQUIRED IN ROOMS WHERE COMBINED INSTALLED LIGHTING POWER IN COMBINED SKYLIT & PRIMARY DAYLIT ZONES ARE <120 WATTS. INSTALLED WATTAGE
   IN PRIMARY SIDELIT DAY LIT ZONE IS 90 WATTS (2x 45w, AS SHOWN ON SHEET E1.0). THEREFORE, AUTOMATIC DAYLIGHTING CONTROLS ARE ONLY REQUIRED WHEN "SOLATUBES" ARE INSTALLED. SEE A1.1
3. ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) CONNECTION:
   PER TITLE 24 CODE, "AN EMCS MAY BE INSTALLED TO COMPLY WITH THE REQUIREMENTS OF ONE OR MORE LIGHTING CONTROLS IF IT MEETS THE MINIMUM REQUIREMENTS". MAY CONTAIN OCCUPANCY SENSORS AND PHOTOCELL
   CONTROL LIGHTING, IN THAT CASE, AN EMCS IS NOT REQUIRED.
4. SOLAR-READY ZONE REQUIREMENTS:
   REQUIREMENTS & TABLE CAN BE FOUND ON SHEET A2.0

NOTE:
ANY MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND ARE NOT INCLUDED.

ACOUSTIC NOTES

ACOUSTIC CONTROLS

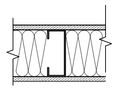
1. THE BUILDING AND SITE FEATURES SHALL COMPLY WITH THE CALGREEN CODE, SECTION 5.507.4, FOR THE SPECIFIC SITE LOCATION.
2. MINIMUM WALL ASSEMBLIES:
   WALL ASSEMBLIES SHALL BE CONSTRUCTED PER DETAIL SHEETS A5.1, & A8.0, WITH EITHER 2x4 WOOD STUDS OR 6" STEEL STUDS PER LISTED OPTIONS. MINIMUM STC RATINGS LISTED BELOW ARE PER THE CATALOG OF STC & IIC RATINGS FOR WALL AND FLOOR/CEILING ASSEMBLIES, PRODUCED BY THE OFFICE OF NOISE CONTROL, CA DEPARTMENT OF HEALTH SERVICES.



(1) LAYER 1/2" GYPSUM BOARD SECURED TO MIN. 2½" METAL STUDS @ 24" O.C. MAX.

STC=27
(CATALOG SECTION 1.3.2.5.4.1)
TEST REF.: NATIONAL RESEARCH COUNCIL OF CANADA - NRC #66

3. CLASSROOM OR RESTROOM, INTERIOR SOUND TRANSMISSION IN THE INTERIOR ADJOINING WALL AND FLOOR/CEILING SHALL MEET THE MINIMUM REQUIREMENT OF A STC OF 40, PER CALGREEN CODE SECTION 507.4.3. (EXAMPLES OF QUALIFYING ASSEMBLIES SHOWN BELOW).



(2) LAYER 5/8" GYPSUM BOARD SECURED TO MIN. 2½" METAL STUDS @ 24" O.C. MAX. W/3½" THK BATT INSULATION

STC=48
TEST REF.: AUDIO ALLOY L.L.C TEST NUMBER OL-92-410

4. MINIMUM WINDOW & DOOR RATINGS:
   ALL WINDOWS AND DOORS SPECIFIED ON THE SCHEDULES FOUND ON SHEET N3.0 OF THIS PACKAGE SHALL MEET A MINIMUM STC RATING OF 27.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

MANUFACTURER PROFESSIONAL OF RECORD

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

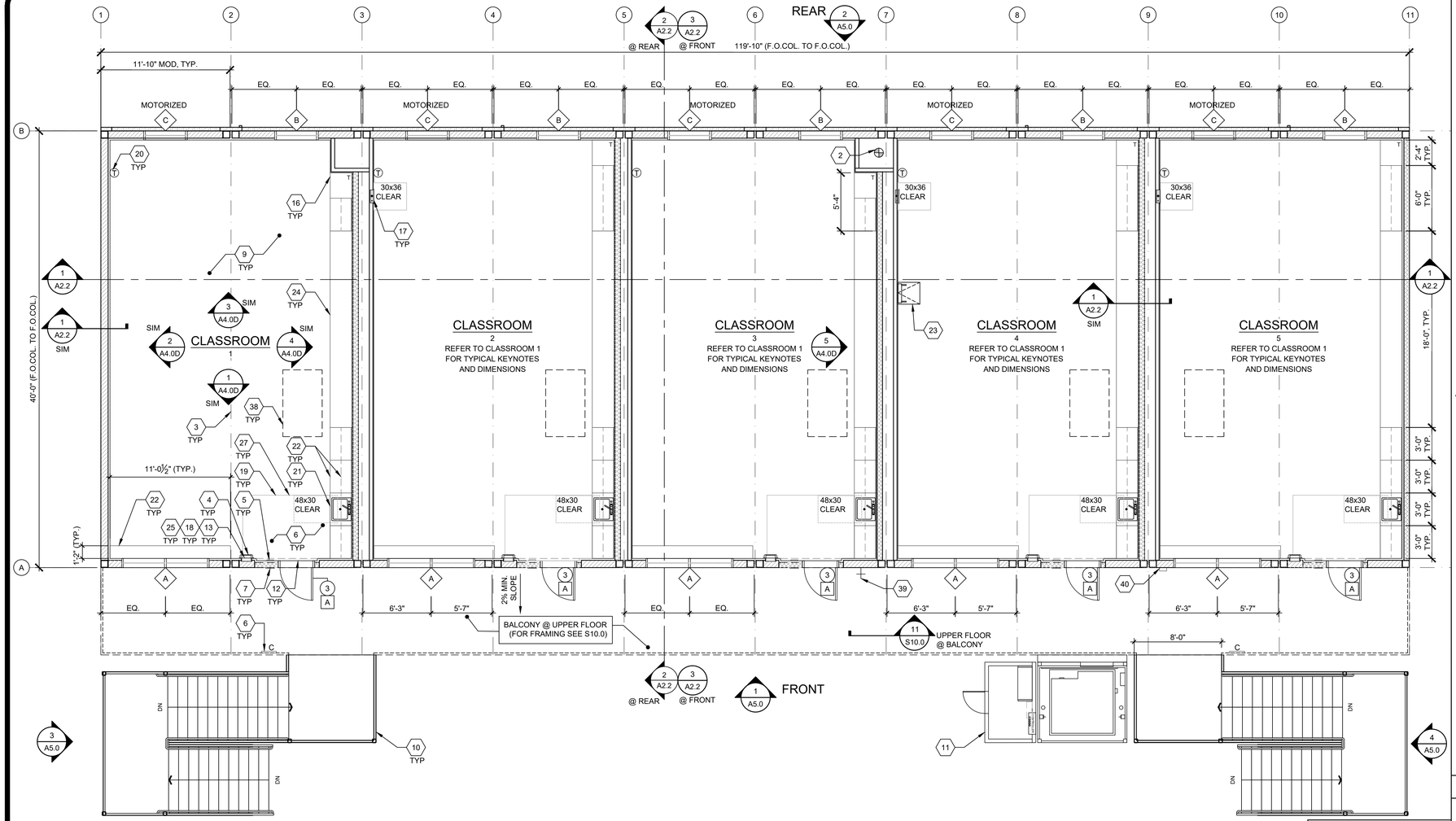
REVISIONS

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
GROUND FLOOR PLAN

SHEET NUMBER:
A1.0

G:\AXXXX_Jobs\ at 28" x 40" (SAVED: 6/20/2022 9:44 AM PLOTTED: 6/21/2022 9:44 AM BY:Benjamin Devlin ISO FULL BLEED 28x40.DWG) M:\Santa Cruz City Schools-Gault\ERRE\MAIN\DWG\1-GS - 119989_a1.0 - Gault ES - TYPICAL 1ST FLR.PLN.dwg



NOTE:
1. K-2ND GRADERS WILL NOT OCCUPY 2nd FLOOR PER CBC 452.1.4.
2. ALL SIGNAGE BY OTHERS; FOR EXACT LOCATIONS REFER TO A0.2 FOR SIGNAGE PLAN

TYPICAL UPPER FLOOR PLAN

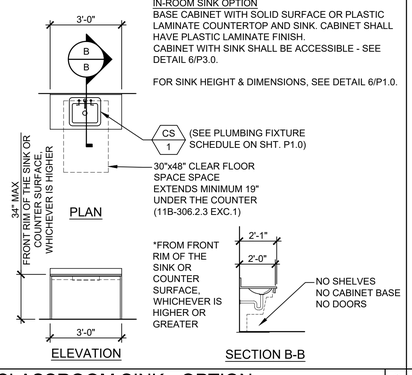
SCALE: 3/16" = 1' - 0"

1. NOT USED
2. OPTIONAL INTERIOR WALLS MAY OCCUR THROUGHOUT THE BUILDING AS CONSTRUCTED PER SHEETS S9.1. THE TITLE 24 HAS BEEN RUN FOR THE WORST CASE ENVELOPE BASED ON AREA.
3. PANIC HARDWARE COMPLYING WITH C.B.C. 1010.1.10 IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER.
4. IF OCCUPANCY LOAD EXCEEDS 50, PROVIDE A SECOND EXIT DOOR, PER CBC TABLE 1006.2.1.
5. FOR ROOMS OR SPACES CLASSIFIED AS AN ASSEMBLY OCCUPANCY, PROVIDE AN OCCUPANT LOAD SIGN (BY OTHERS) IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT, PER C.B.C. SECTION 1004.9.
6. ALL PRIMARY EXTERIOR DOOR ENTRIES SHALL BE COVERED TO PREVENT WATER INTRUSION BY USING NONABSORBENT FLOOR AND WALL FINISHES WITHIN AT LEAST 2 FEET AROUND AND PERPENDICULAR TO OPENING, PER CALGREEN, SECTION 5.407.2.2.1.
7. PRIMARY EXTERIOR DOOR ENTRIES SHALL HAVE AT LEAST ONE OF THE FOLLOWING:
   - INSTALLED AWNING AT LEAST 4 FEET IN DEPTH (BY OTHERS).
   - OPTIONAL SIDE WALL CANOPY (4 FEET IN DEPTH) PER SHEET S5.4A.
   - ROOF OVERHANG AT LEAST 4 FEET IN DEPTH.
   - DOOR RECESSED AT LEAST 4 FEET.
   - OTHER METHODS WHICH PROVIDE EQUIVALENT PROTECTION (BY OTHERS).
8. WINDOW PLACEMENT & SIZE MAY VARY AS THE TITLE 24 HAS BEEN RUN FOR THE WORST CASE ENVELOPE PROVIDED THAT THE MAXIMUM WINDOW AREA IS 400 SQ.FT. FOR A SINGLE ROOM. JUSTIFICATION OF LARGER AREAS MAY BE BASED ON RATIO AND INTERPOLATION.

SITE NOTE

3/16:12 (1%) MINIMUM TO 1/4:12 (2%) MAXIMUM GRADE FROM FACE OF BUILDING MUST BE ADHERED TO FOR WATER RUN-OFF. PONDING MAY OCCUR AROUND THE PERIMETER OF THE BUILDING.

SHEET NOTES



IN-ROOM SINK OPTION
BASE CABINET WITH SOLID SURFACE OR PLASTIC LAMINATE COUNTERTOP AND SINK. CABINET SHALL HAVE PLASTIC LAMINATE FINISH.
CABINET WITH SINK SHALL BE ACCESSIBLE - SEE DETAIL 6/P3.0.

FOR SINK HEIGHT & DIMENSIONS, SEE DETAIL 6/P1.0.

CLASSROOM SINK - OPTION

SCALE: 3/16" = 1' - 0" | 3

ENERGY CONTROLS

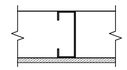
1. DEMAND RESPONSE CONTROLS:
   ONLY REQUIRED IN BUILDINGS LARGER THAN 10,000 S.F., THEREFORE, NOT REQUIRED.
2. AUTOMATIC DAYLIGHTING CONTROLS:
   NOT REQUIRED IN ROOMS WHERE COMBINED INSTALLED LIGHTING POWER IN COMBINED SKYLIT & PRIMARY DAYLIT ZONES ARE <120 WATTS. INSTALLED WATTAGE
   IN PRIMARY SIDELIT DAY LIT ZONE IS 90 WATTS (2x 45w, AS SHOWN ON SHEET E1.0). THEREFORE, AUTOMATIC DAYLIGHTING CONTROLS ARE ONLY REQUIRED WHEN "SOLATUBES" ARE INSTALLED. SEE A1.1
3. ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) CONNECTION:
   PER TITLE 24 CODE, "AN EMCS MAY BE INSTALLED TO COMPLY WITH THE REQUIREMENTS OF ONE OR MORE LIGHTING CONTROLS IF IT MEETS THE MINIMUM REQUIREMENTS". MAY CONTAIN OCCUPANCY SENSORS AND PHOTOCELL
   CONTROL LIGHTING, IN THAT CASE, AN EMCS IS NOT REQUIRED.
4. SOLAR-READY ZONE REQUIREMENTS:
   REQUIREMENTS & TABLE CAN BE FOUND ON SHEET A2.0

NOTE:
ANY MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND ARE NOT INCLUDED.

ENERGY NOTES

ACOUSTIC CONTROLS

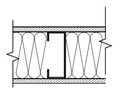
1. THE BUILDING AND SITE FEATURES SHALL COMPLY WITH THE CALGREEN CODE, SECTION 5.507.4, FOR THE SPECIFIC SITE LOCATION.
2. MINIMUM WALL ASSEMBLIES:
   WALL ASSEMBLIES SHALL BE CONSTRUCTED PER DETAIL SHEETS A5.1, & A8.0, WITH EITHER 2x4 WOOD STUDS OR 6" STEEL STUDS PER LISTED OPTIONS. MINIMUM STC RATINGS LISTED BELOW ARE PER THE CATALOG OF STC & IIC RATINGS FOR WALL AND FLOOR/CEILING ASSEMBLIES, PRODUCED BY THE OFFICE OF NOISE CONTROL, CA DEPARTMENT OF HEALTH SERVICES.



(1) LAYER 1/2" GYPSUM BOARD
SECURED TO MIN. 2½" METAL STUDS
@ 24" O.C. MAX.

STC=27
(CATALOG SECTION 1.3.2.5.4.1)
TEST REF.; NATIONAL RESEARCH COUNCIL OF CANADA - NRC #66

3. CLASSROOM OR RESTROOM, INTERIOR SOUND TRANSMISSION IN THE INTERIOR ADJOINING WALL AND FLOOR/CEILING SHALL MEET THE MINIMUM REQUIREMENT OF A STC OF 40, PER CALGREEN CODE SECTION 507.4.3. (EXAMPLES OF QUALIFYING ASSEMBLIES SHOWN BELOW).



(2) LAYER 5/8" GYPSUM BOARD
SECURED TO MIN. 2½" METAL STUDS
@ 24" O.C. MAX. W/3½"
THK BATT INSULATION

STC=48
TEST REF.; AUDIO ALLOY L.L.C TEST
NUMBER OL-92-410

4. MINIMUM WINDOW & DOOR RATINGS:
   ALL WINDOWS AND DOORS SPECIFIED ON THE SCHEDULES FOUND ON SHEET N3.0 OF THIS PACKAGE SHALL MEET A MINIMUM STC RATING OF 27.

ACOUSTIC NOTES

1. NOT USED
2. FIRE RISER
3. TYPICAL MOD LINE
4. SEMI-RECESSED FIRE EXTINGUISHER. TOP OF HANDLE @ +48" AFF. 4" MAX PROTRUSION FROM WALL IF FIRE EXTINGUISHER IS ABOVE 27" A.F.F. PER 5/A5.1B
5. TACTILE EXIT SIGN PER DETAIL 10/N4.0 (BY OTHERS)
6. EGRESS AREA
7. ROOM SIGNAGE AND ISA PER DETAILS 5&9/N4.0 (BY OTHERS)
8. NOT USED
9. CARPET
10. STAIRS - REFER TO SHEET S11.0 FOR DETAILS
11. ELEVATOR (ELEVATOR & CONTROLLER ROOM ARE NOT PART OF THIS APPROVAL)
12. RECESSED ENTRY DOOR- SEE INTERIOR ELEVATIONS ON A4.0
13. OCCUPANT LOAD SIGN PER DETAIL 11/N4.0 (BY OTHERS)
14. DOWNSPOUT - DISCHARGE TO SPLASH BLOCK (U.O.N.) (QUANTITY AND LOCATION MAY VARY)
15. NOT USED
16. TALL CABINET REFER TO A7.1 FOR BLOCKING
17. ELECTRICAL PANEL (LOCATION MAY VARY)
18. FLOOR LIVE LOAD SIGN PER 2019 CBC SECTION 106.1. REQUIRED ONLY FOR COMMERCIAL OR INSTITUTIONAL BUILDINGS DESIGNED WITH LIVE LOADS EXCEEDING 50 PSF) WHERE 150 PSF LIVE LOAD IS SPECIFIED, THE TEXT "LONG TERM STORAGE NOT PERMITTED" SHALL ALSO BE INCLUDED
19. NON-ABSORBENT FLOOR AREA (2'-0" MIN. IN ALL DIRECTIONS @ ALL ENTRY DOOR) CHANGES IN LEVEL ARE NOT PERMITTED IN DOOR MANEUVERING CLEARANCE UNLESS NON-ABSORBENT MATERIAL IS FLUSH WITH CARPET (11B-404.2.4).
20. THERMOSTAT - TOP OF BOX @ 46" A.F.F. - LOCATION MAY VARY
21. CASEWORK W/SINK - REFER TO A7.1 FOR BLOCKING & 3/-
22. CASEWORK - REFER TO A7.1 FOR BLOCKING
23. ROOF ACCESS LADDER
24. TEACHING WALL W/ DROP DOWN PROJECTOR SCREEN
25. ASSISTIVE LISTENING (AL) SIGN POSTED IN PROMINENT PLACE AT OR NEAR THE ENTRANCE PER 17/N4.0.
26. NOT USED
27. VCT FLOORING
28. NOT USED
29. NOT USED
30. NOT USED
31. NOT USED
32. NOT USED
33. NOT USED
34. NOT USED
35. NOT USED
36. NOT USED
37. NOT USED
38. ROOF MOUNT HVAC - SEE MECHANICAL
39. HOSE BIB
40. 2-WAY COMM. SYSTEM (BY SITE CONTRACTOR)

KEYNOTES

4" MTL STUD - 362S125-30
6" MTL STUD - 600S162-33
8" MTL STUD - 800S162-33
4" BUMP OUT MTL STUD - 400S162-43
FIRE - RATED WALL = SOLID

WALL LEGEND

- X/# = MECHANICAL OR PLUMBING FIXTURE - SEE MECHANICAL OR PLUMBING DRAWINGS
- X = KEY NOTE - SEE KEY NOTES ABOVE
- X = DOOR TYPE - SEE SCHEDULE, SHEET N3.0
- X = DOOR HARDWARE - SEE HARDWARE SCHEDULE, SHEET N3.0
- X = WINDOW TYPE - SEE SCHEDULE, SHEET N3.0

SYMBOLS LEGEND

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING
FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT MARK EDWARD DE MARIS No. C41139 RENEWAL 8-31-23 STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT JOHN PATRICK CONLEY No. C12631 Ren. 3-31-23 STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

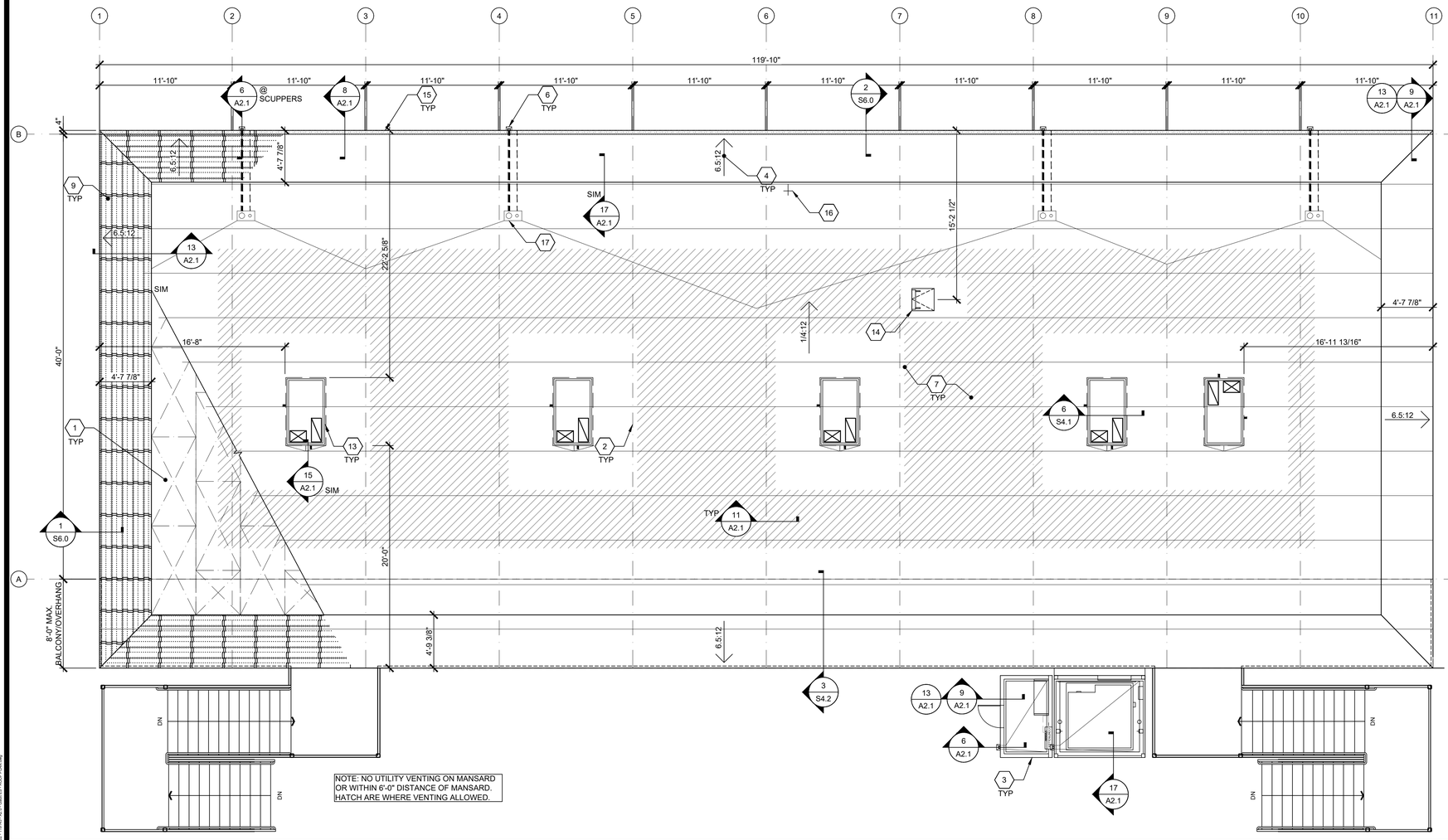
REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
UPPER FLOOR PLAN

SHEET NUMBER:
A1.1

©XXXXX - 3-Story 48' - 25ft x 48' - SAVED: 6/20/2022 2:09 AM - PLOTTED: 6/21/2022 10:48 AM - W:\Projects\000-999\000-099\000-021\2-Store Civil Dr\Sheets - Dwgs\E1\PRELIMINARY\000-021-32 - 1SHT - A1.0 - Sht1.DS - TYPICAL KEYSHEET.dwg



TYPICAL ROOF PLAN

SCALE : 3/16"=1'-0" 1

1. ROOF SHEATHING PER SHEET S4.0
2. TYPICAL MOD LINE
3. PARAPET
4. TYPICAL ROOF SLOPE
5. NOT USED
6. DOWNSPOUT - SEE ROOF DRAIN SCHEDULE BELOW FOR MIN. NUMBER OF DRAINS
7. SINGLE-PLY ROOF - SEE DETAILS ON A2.1
8. NOT USED
9. METAL TILE ROOFING - SEE DETAILS ON A2.1
10. ROOF TOP PIPE SUPPORT BLOCK - SEE DETAIL 3/M1.6
11. PIPE VENT PER PLUMBING PLANS & 2/M1.6
12. CONDESATE LINE PER 9/M1.5
13. ROOF MOUNTED HVAC PER M1.7
14. ROOF HATCH W/ACCESS LADDER - PER DETAIL 2/-
15. WALL BUMP-OUT
16. RECESSED HOSE BIB
17. ROOF DRAIN w/OVERFLOW PER DETAIL 6/A2.1

KEY NOTES

1. NOT USED.
2. SEE MECHANICAL PLANS FOR ROOF PENETRATIONS.
3. NOT USED.

GENERAL NOTES

ROOF AREA DRAINS
(WITH 8'+2' OVERHANGS)

BUILDING SIZE (NOM.)	ROOF AREA	MINIMUM NO. OF DRAINS	SIZE OF DRAIN
☐ 48'x40'	2400	1	2x3
☐ 60'x40'	3000	2	2x3
☐ 72'x40'	3600	2	2x3
☐ 84'x40'	4200	2	2x3
☐ 96'x40'	4800	2	2x3
☐ 108'x40'	5400	2	2x3
☒ 120'x40'	6000	3	2x3
☐ 132'x40'	6600	3	2x3
☐ 144'x40'	7200	3	2x3
☐ 156'x40'	7800	3	2x3
☐ 168'x40'	8400	3	2x3
☐ 180'x40'	9000	4	2x3
☐ 192'x40'	9600	4	2x3
☐ 204'x40'	10200	4	2x3
☐ 216'x40'	10800	4	2x3
☐ 228'x40'	11400	4	2x3
☐ 240'x40'	12000	5	2x3

NOTES:

1. DOWNSPOUTS & LEADERS PER C.P.C. 1106.1 AND TABLE 1103.1.
2. DOWNSPOUT SIZING BASED ON ROOF AREA AND MAX RAINFALL RATE OF 3" PER HOUR. SITE SPECIFIC BUILDING MAY UTILIZE LOCAL RAINFALL RATE--PROVIDE SITE RAINFALL RATE TO DETERMINE MINIMUM NUMBER OF DRAINS REQUIRED.

BUILDING DRAIN SCHEDULE

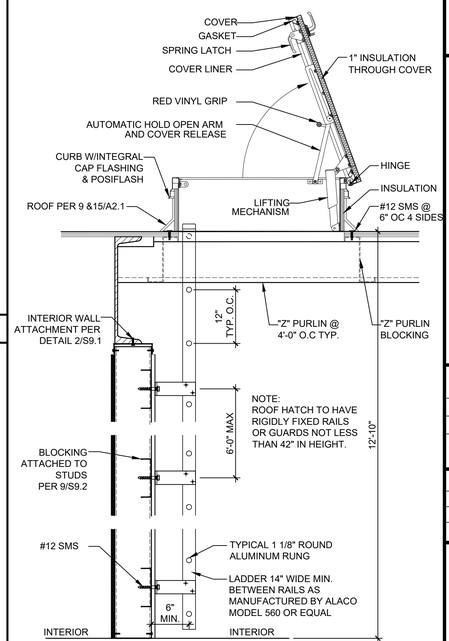
REQUIRED SOLAR-READY ZONE

BUILDING SIZE	MAX. ROOF AREA (SQ.FT.)	REQ'D ZONE AREA (SQ.FT.)
☐ 48' x 40'	1920	288
☐ 60' x 40'	2400	360
☐ 72' x 40'	2880	432
☐ 84' x 40'	3360	504
☐ 96' x 40'	3840	576
☐ 108' x 40'	4320	648
☒ 120' x 40'	4800	720
☐ 132' x 40'	5280	792
☐ 144' x 40'	5760	864
☐ 156' x 40'	6240	936
☐ 168' x 40'	6720	1008
☐ 180' x 40'	7200	1080
☐ 192' x 40'	7680	1152
☐ 204' x 40'	8160	1224
☐ 216' x 40'	8640	1296
☐ 228' x 40'	9120	1368
☐ 240' x 40'	9600	1440

SOLAR ZONE REQUIRED, PER TITLE 24 PART 6, SECTION 110.10: FOR NON-RESIDENTIAL BUILDINGS, 3 STORIES OR LESS, A MINIMUM OF 15% OF ROOF AREA (EXCLUDING SKYLIGHTS) MUST BE SET ASIDE FOR PHOTO-VOLTAICS (PV). THE ROOF MUST HAVE NO ROOF OBSTRUCTIONS.

1. REQUIRED SOLAR-READY ZONE, AREA PER THE CHART BELOW, MUST BE PROVIDED ON BUILDING ROOF.
2. ZONE MUST BE LEFT VOID OF ROOF-MOUNTED HVAC UNITS, SKYLIGHTS OR OTHER OBSTRUCTIONS THAT WOULD HINDER FUTURE INSTALLATION OF SOLAR SYSTEM COMPONENTS, INCLUDING PV PANELS.
3. TOTAL AREA REQUIRED FOR SOLAR-READY ZONE DOES NOT NEED TO BE LOCATED IN ONE AREA BUT CAN BE SPREAD OUT OVER ROOF.
4. SOLAR-READY ZONE SHALL NOT INCLUDE ROOF OVERHANGS, AND SOLAR SYSTEM COMPONENTS MAY NOT BE PLACED THERE.
5. THE ROOF STRUCTURE HAS BEEN DESIGNED PER THE DESIGN LOADS SPECIFIED ON SHEET TS, WHICH DOES INCLUDE LOADS FROM SOLAR EQUIPMENT THAT MIGHT BE INSTALLED AT A LATER DATE.
6. EQUIPMENT SUCH AS SOLAR MODULES, INVERTERS, AND METERING EQUIPMENT DO NOT NEED TO BE INSTALLED, NOR DOES CONDUIT, PIPING, OR PRE-INSTALLED MOUNTING HARDWARE.
7. A STRUCTURAL ENGINEER OF RECORD SHOULD BE CONSULTED PRIOR TO ANY FUTURE SOLAR INSTALLATIONS TO DETERMINE THE ADEQUACY OF THE ROOF FRAMING TO SUSTAIN THE LOADS OF THE INSTALLATION ON THE BUILDING STRUCTURE.
8. A SEPARATE DSA APPLICATION NUMBER IS REQUIRED FOR DESIGN & INSTALLATION OF THE SOLAR PANEL SYSTEM, ITS ANCHORAGE & ROOF SUPPORT STRUCTURE.

SOLAR-READY ZONE REQUIREMENTS



ROOF HATCH & LADDER DETAIL
INTERIOR ACCESS

SCALE: 1/8" = 1' - 0" 2

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK RICHARD WY
No. C12638
Ren. 08.31.23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
PATRICK CONNOR HOWE
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

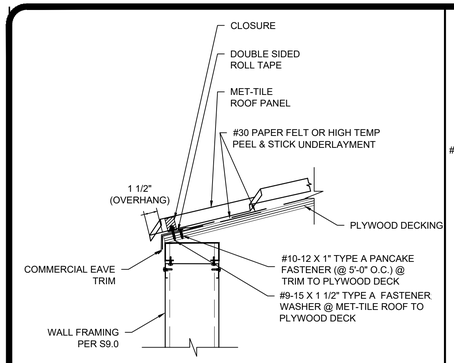
REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

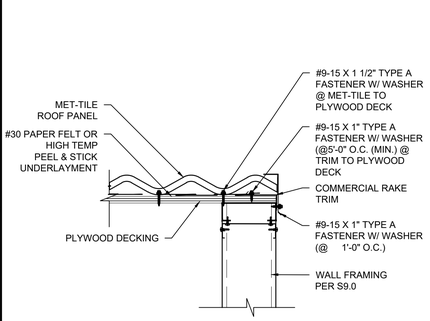
SHEET TITLE:
ROOF PLAN

SHEET NUMBER:
A2.0

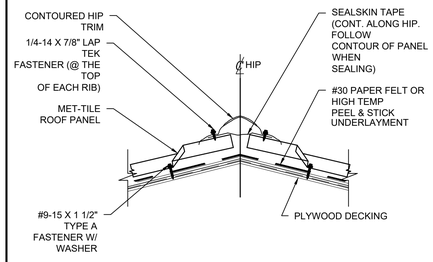
D:\XXXXXX - 3 Story 48' -2IN x 40' -5IN\S1-5 1\A2D 1152.dwt AM 4/19/2022 10:52 AM PLOTTED 6/13/2022 10:48 AM M:\Projects\105-999\105-999\S1-5 Santa Cruz City Schools Gault ES\PRELIM\ARCH\S1-5 - 120'x40' - A2.0 - Sht#18 - ROOF PLAN.dwg



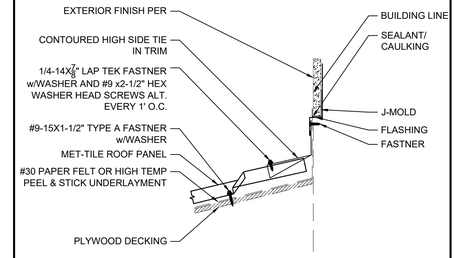
COMMERCIAL EAVE DETAIL — SCALE: 1-1/2"=1'-0" — 1



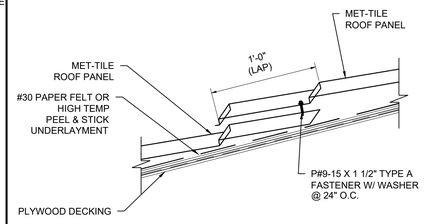
COMMERCIAL RAKE DETAIL — SCALE : 1 1/2"=1'-0" — 2



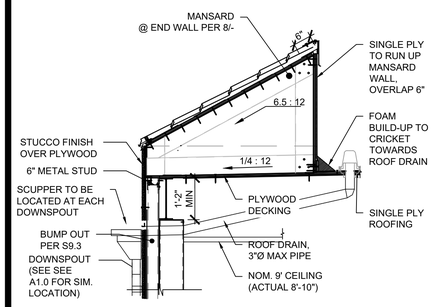
CONTOURED HIP DETAIL — SCALE : 1 1/2"=1'-0" — 3



CONTOURED HI-SIDE TIE-IN DETAIL — SCALE : 1 1/2"=1'-0" — 4

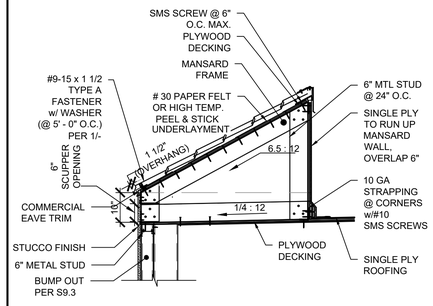


END LAP DETAIL — SCALE : 1 1/2"=1'-0" — 5

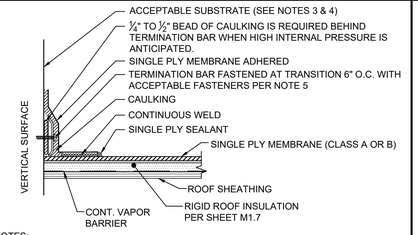


TYP. SCUPPER DETAIL — SCALE : 1/2"=1'-0" — 6

NOT USED — 7



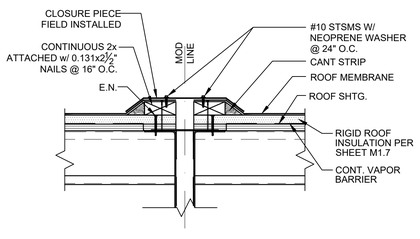
MANSARD @ END WALL — SCALE : 1/2"=1'-0" — 8



NOTES:
1. DETAILS TO BE USED IN CONJUNCTION WITH GUIDE SPECIFICATIONS CONTAINING REQUIREMENTS FOR NAILERS, INSULATION, SLIPSHEETS, ETC.
2. SINGLE PLY SEALANT IS REQUIRED ON ALL CUT OR NON-ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE.
3. IN NEW CONSTRUCTION ACCEPTABLE SUBSTRATES INCLUDE EXTERIOR GRADE OSB, POURED OR PRECAST CONCRETE, CEMENT BLOCK OR MASONRY WALLS.
4. ACCORDING TO PROJECT CONDITIONS, THE SPECIFIER AND/OR APPLICATOR MUST DETERMINE THAT THE VERTICAL SUBSTRATE/STRUCTURE IS ABLE TO RESIST 200 LBS./FT. (298 KGS./METER) MINIMUM IN ALL DIRECTIONS.
5. THE SPECIFIER AND/OR APPLICATOR MUST DETERMINE THAT THE VERTICAL SUBSTRATE/FASTENER COMBINATION WILL PROVIDE ADEQUATE PULL OUT VALUES IN EXCESS OF 200 LBS./FT. (298 KGS./METER).

SINGLE-PLY FLASHING BASE TIE-IN — N.T.S. — 9

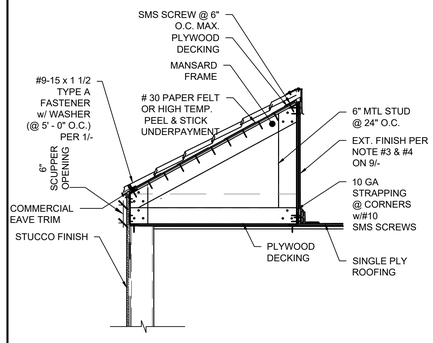
NOT USED — 10



NOTE: SEE DETAIL 10/- FOR TYPICAL MOD-LINE CONNECTION.

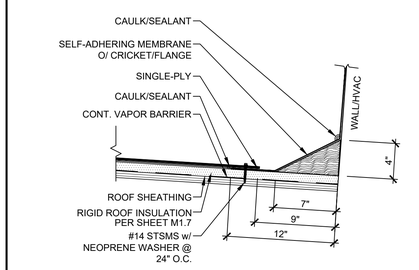
MEMBRANE @ MODLINE OPTION — SCALE: 1-1/2"=1'-0" — 11

NOT USED — SCALE: 1-1/2"=1'-0" — 12

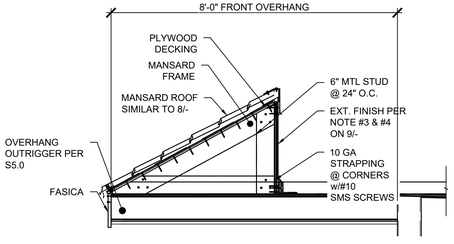


MANSARD @ SIDES WALL — SCALE: 1-1/2"=1'-0" — 13

NOT USED — SCALE: 1-1/2"=1'-0" — 14



BUILT-UP CRICKET @ SINGLE PLY — SCALE: 1-1/2"=1'-0" — 15



MANSARD @ FRONT OVERHANG — SCALE: 1-1/2"=1'-0" — 16

NOT USED — SCALE: 1-1/2"=1'-0" — 17

NOT USED — 18

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT MARK RICHARD SCHULTZ No. C12631 Ren. 3-31-23 STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT GREGORY PATRICK KNOX No. C12631 Ren. 3-31-23 STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

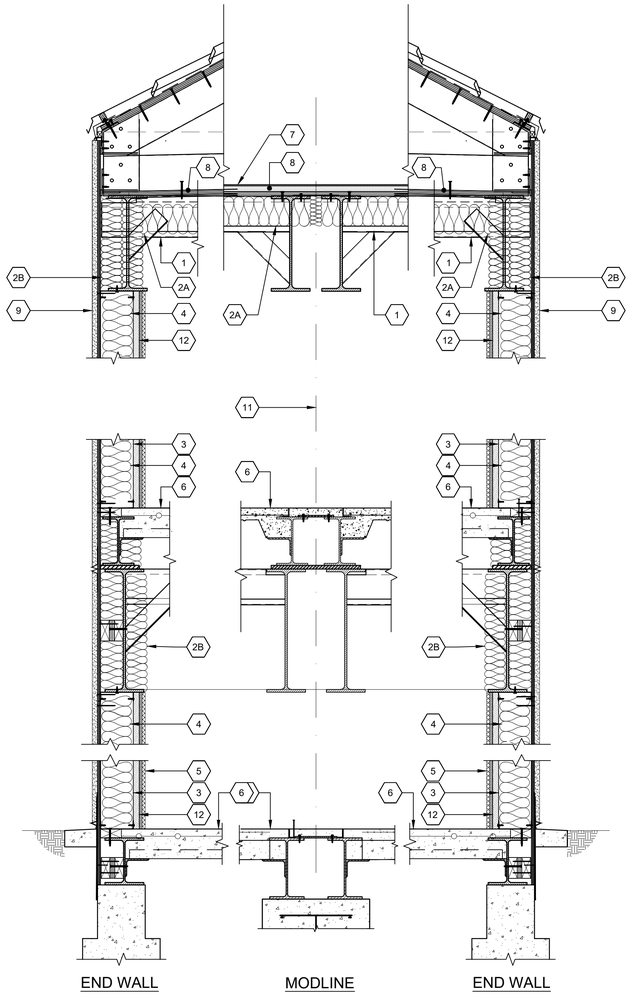
REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
TYPICAL
ROOF DETAILS

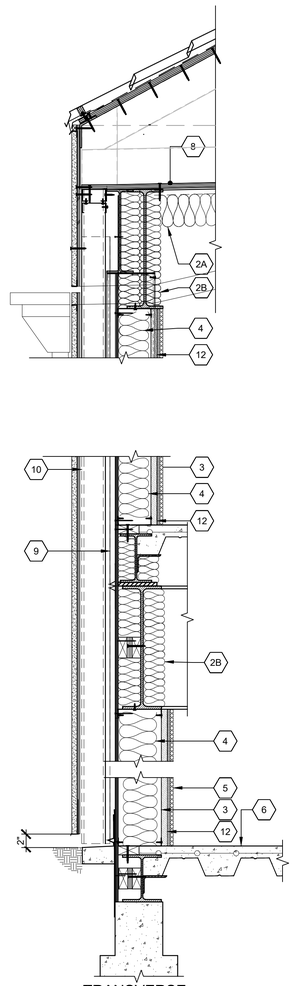
SHEET NUMBER:
A2.1

©XXXXXX - Sitka.rvt - 22x34 - sht - SAVED: 2/2/2022 11:24 AM PLOTTED: 6/1/2022 9:44 AM W:\Projects\1656-1699\1657-21 Santa Cruz City Schools Gault ES\PRELIM\ARCH\1657-21 - SE - 11in\A5 - A2.1 - Detail 05 - ROOF DETAILS.dwg



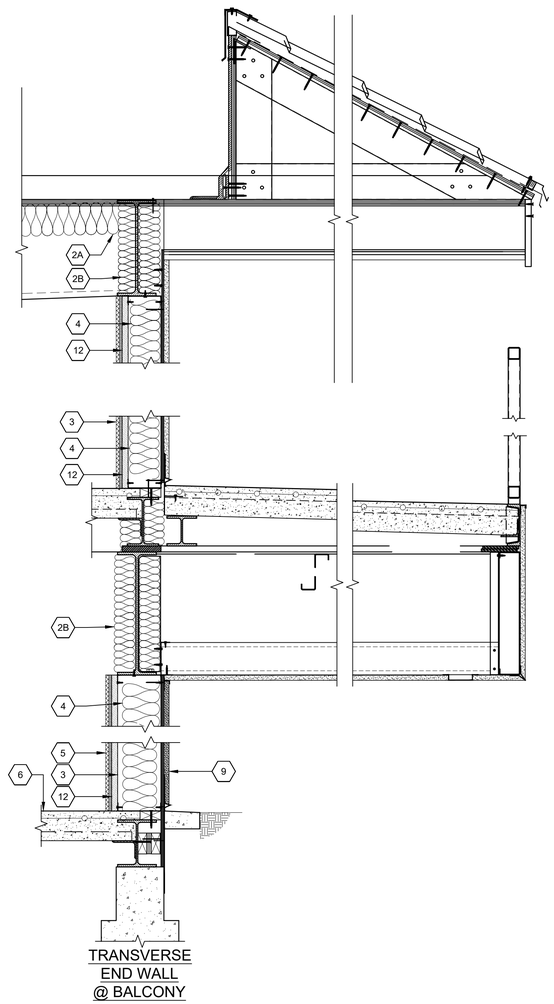
TRANSVERSE THERMAL INSULATION BUILDING ENVELOPE

SCALE: 1"=1'-0" | 1



LONGITUDINAL THERMAL INSULATION BUILDING ENVELOPE - REAR

SCALE: 1"=1'-0" | 2



LONGITUDINAL THERMAL INSULATION BUILDING ENVELOPE - FRONT

SCALE: 1"=1'-0" | 3

1. ROOF PURLINS PER ROOF FRAMING PLAN
2A. BATT ROOF INSULATION PER SHEET M1.7
2B. BATT INSULATION AT ROOF BEAMS PER SHEET M1.7
3. WALL FRAMING PER SHEET S9.0
4. WALL INSULATION PER SHEET M1.7
5. VINYL FABRIC OVER TACKABLE BRACING PANELS
6. CONCRETE FLOOR PER SHEET S2.0
7. SINGLE -PLY MEMBRANE
8. RIGID ROOF INSULATION PER SHEET M1.7 OVER ROOF SHEATHING
9. EXTERIOR WALL FINISH PER EXTERIOR ELEVATIONS
10. BUMP-OUT WALL NOT REQUIRED TO BE INSULATED
11. TYP. MODLINE
12. PROVIDE RIGID FOAM INSULATION OVER STEEL STUD FRAMING

KEY NOTES

NOT USED

NOT USED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME

120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK TADDARO
No. C-30738
EXP. 08-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
ROBERT PATRICK CLARK
No. C12631
Ren. 8-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/22/22
PROJECT NO:	1657-21

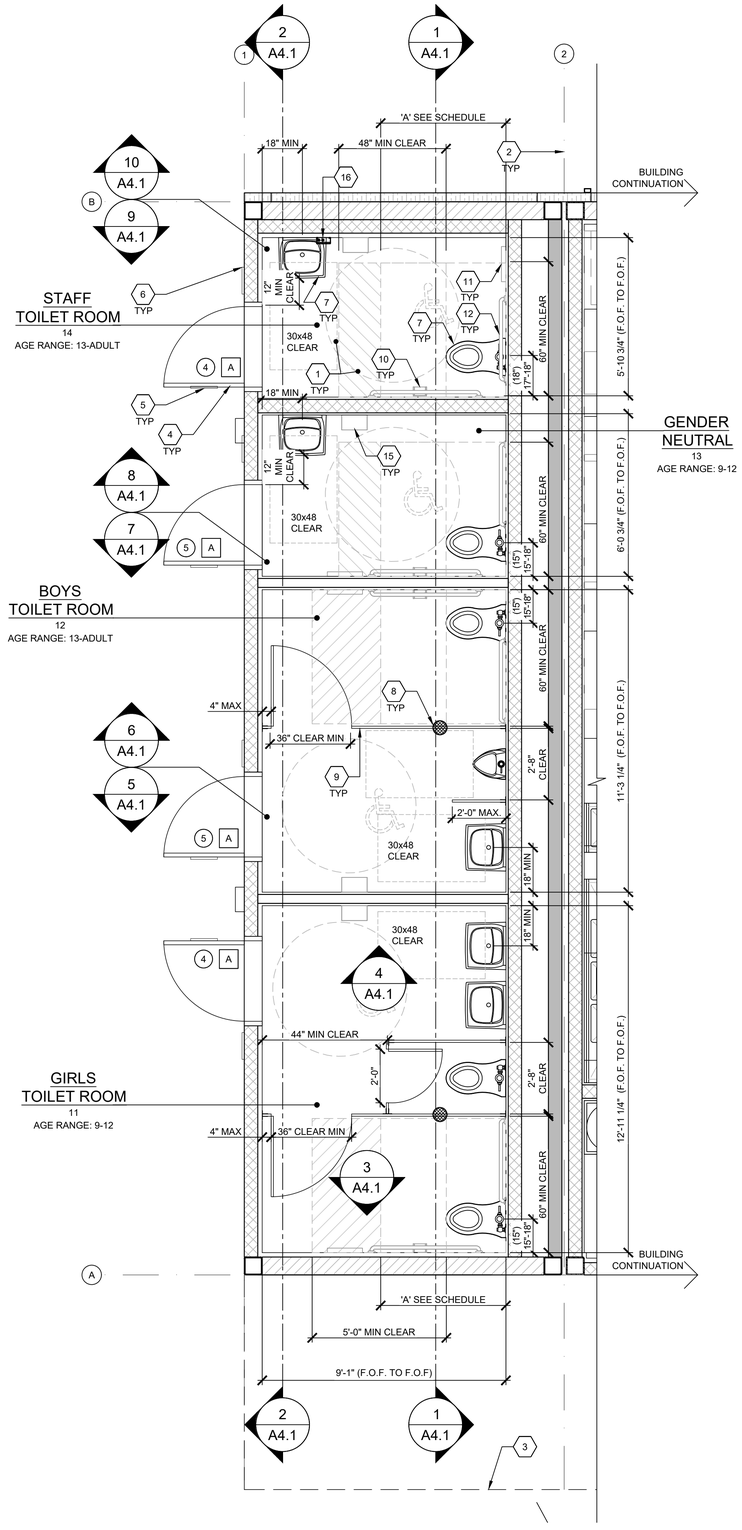
SHEET TITLE:

BUILDING SECTION

SHEET NUMBER:

A2.2

03-XXXXX - Sdny ref - (2)# ref - (5)#SD 03222021 5:00 PM PCOTTES 6/2/2021 5:00 PM J:\ams-fs\Projects\000-999\999-999\1657-21 Santa Cruz City Schools Gault ES\PRELIM\PDF\SHEET A2.2 - PARAPET GUARDRAIL DETAILS.dwg



ACCESSIBLE CLEARANCE FOR WATER CLOSETS			
		WALL MOUNTED	FLOOR MOUNTED
'A'	CHILDREN	59"	59" MIN.
	NON-CHILDREN	56"	59" MIN.

1. ACCESSIBLE TOILET COMPARTMENT'S SHALL HAVE A MANEUVERING SPACE COMPLYING WITH 2019 CBC SECTION 11B-604.8.1.1.
2. THE TABLE ABOVE IS A LIST OF REQ'D WATER CLOSET CLEARANCE. THE W.C. MANEUVERING SPACE IS LOCATED IN FRONT OF THE W.C. AND IS DESCRIBED IN 11B-604.8.1.1.1, 11B-604.8.1.1.2 AND 11B-604.8.1.1.3 DEPENDING ON IF THE DOOR IS END-OPENING OR SIDE-OPENING AND DIRECTION OF SWING.
3. THE MANEUVERING CLEARANCE FOR ALL ACCESSIBLE TOILET COMPARTMENTS SHOWN IN THESE PLANS SHALL COMPLY WITH 11B-604.8.1.1.1 (IN-SWINGING) & 11B-604.8.1.1.2. (SIDE-OPENING)

* F.O.C. = FACE OF COLUMN
F.O.F. = FACE OF FINISH

1. CLEAR FLOOR SPACE AREA
2. TYP. MOD LINE
3. OVERHANG PER PLAN
4. DOOR PER SCHEDULE ON SHEET N3.0, TYP.
5. RESTROOM SIGNAGE (BY OTHERS) PER DETAILS 1-10, SHEET N4.0
6. ROOM AND ISA SIGNAGE (BY OTHERS) PER DETAILS 5&9/N4.0
7. PLUMBING FIXTURE PER P1.0
8. FLOOR DRAIN (LOCATION MAY VARY) - PER P1.0
   1:48 FLOOR SLOPE MAX.
9. TOILET PARTITIONS (ACCURATE, SOLID PLASTIC, OR EQUAL)
10. TOILET TISSUE DISPENSER (BRADLEY MODEL 508-32, OR EQUAL)
11. TOILET SEAT COVER DISPENSER (BOBRICK MODEL B-221, OR EQUAL)
12. GRAB BARS - SEE 6/A7.2
13. FIREBLOCKING/DRAFTSTOP PER DETAIL 4/M1.5
14. DOWNSPOUT - DISCHARGE TO SPLASH BLOCK (U.N.O.)
15. HAND DRYER
16. INSTAHOT WATER HEATER

KEY NOTES

1. DIMENSIONS ARE TO FACE OF FINISH (F.O.F.) UNLESS NOTED OTHERWISE (i.e. F.O.C., ¢.)
2. RESTROOM CONFIGURATION MAY VARY PER BUILDING CONFIGURATION.
3. RESTROOM MODULE OCCURS ONLY AT END OF BUILDING. SINGLE RESTROOMS MAY OCCUR IN ANY PART OF A BUILDING.
4. RESTROOM MODULE CANNOT STAND ALONE AND SHALL BE ASSEMBLED TOGETHER WITH AT LEAST ONE OTHER MODULE OF THE SAME SIZE.
5. INTERIOR WALLS MAY OCCUR THROUGHOUT BUILDING. REFER TO SHEET S8.1 OR S9.1 FOR ATTACHMENTS.
6. REFER TO SCHEDULE 10/P2.0 FOR ACCESSIBLE HEIGHTS & DIMENSIONS.
7. REFER TO DETAILS 3, 4 & 5, SHEET A7.1 FOR TOILET PARTITION ANCHORAGE BLOCKING.
8. SEWER AND WATER STUB OUTS SHALL BE LOCATED WITHIN THE ALLOWABLE AREA AS SHOWN ON FLOOR PLAN AND CONNECTIONS SHALL BE EASILY ACCESSIBLE FOR FUTURE RELOCATION. STUB OUT HEIGHT SHALL BE COORDINATED BY THE MANUFACTURER.
9. PIPING MATERIAL
   a. WATER: COPPER TYPE "L", 95/5 SOLDER.
   b. WASTE DRAIN AND VENT: ABS.
10. TOILET COMPARTMENT DOORS LOCATED IN THE FRONT PARTITION SHALL BE 4" MAXIMUM FROM THE SIDE WALL OR PARTITION FARTHEST FROM THE WATER CLOSET, PER C.B.C. SECTION 11B-604.8.1.2.

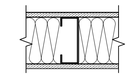
PLUMBING NOTE

MODULAR MFR. TO STUB THROUGH FLOOR ALL PLUMBING LINES. BUILDING PERIMETER POC'S SHOWN ARE FOR COORDINATION PURPOSES ONLY. ALL UNDER-FLOOR CONNECTIONS ARE BY SITE CONTRACTOR, U.O.N.

SITE NOTE

3/16:12 (1%) MINIMUM TO 1/4:12 (2%) MAXIMUM GRADE FROM FACE OF BUILDING MUST BE ADHERED TO FOR WATER RUN-OFF. PONDING MAY OCCUR AROUND THE PERIMETER OF THE BUILDING.

GENERAL NOTES



ONE LAYER 5/8" TYPE-X GYPSUM WALLBOARD OR GYPSUM VENEER BASE APPLIED TO EACH SIDE OF MIN. 5-5/8" STEEL STUDS @ 24" O.C. MAX. w/ R-19 FIBERGLASS BATT INSULATION.

STC=48
TEST REF.: AUDIO ALLOY L.L.C TEST NUMBER OL-92-410

U = 0.147

WALL ASSEMBLY - METAL STUDS
BETWEEN CONDITIONED & UNCONDITIONED SPACES ONLY | 6

- 1 = KEY NOTE - SEE KEY NOTES, THIS SHEET
- X = DOOR TYPE - SEE SCHEDULE SHEET N3.0
- X = DOOR HARDWARE - SEE HARDWARE SCHEDULE SHEET N3.0
- X = WINDOW TYPE - SEE SCHEDULE SHEET N3.0
- = 60" DIAMETER CLEAR FLOOR TURNING SPACE
- CLEAR FLOOR SPACE

SHEET NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK EDUARDO SIMONS
No. C-38
Ren. 08-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
PATRICK GAUGHAN
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS
1
2
3
4

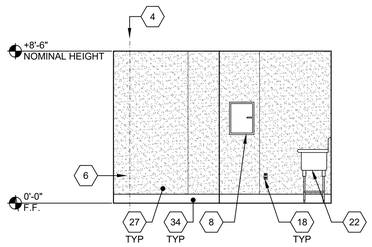
DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
RESTROOM
FLOOR PLAN

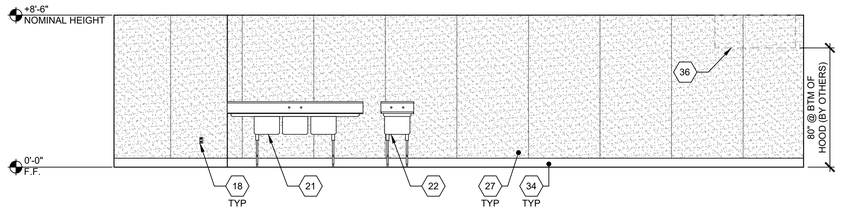
SHEET NUMBER:
A3.0

RESTROOM FLOOR PLAN
SCALE : 3/8"=1'-0" | 2

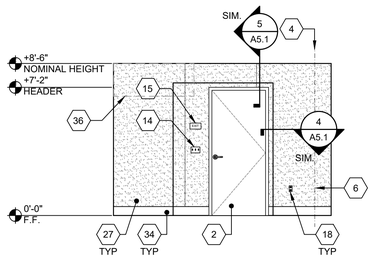
G:\XXXXX - 2 Sets of .ZIP & .RF - SAVED - 5/14/2021 12:53 PM - PLOTTED: 6/13/2022 9:47 AM - M:\Projects\1656-1699\1656-1699\1657-21 Santa Cruz City Schools Gault ES\PRELIM\ARCH\N3-01 - 119141 - A3.0 - Sht# 03 - RESTRM FLR PLN.dwg



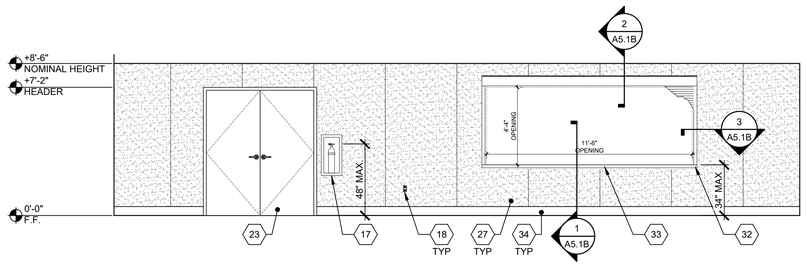
WARMING KITCHEN FRONT END WALL ELEVATION - ROOM 10 — SCALE : 1/4"=1'-0" | 1



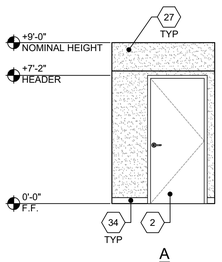
WARMING KITCHEN SIDE WALL ELEVATION - ROOM 10 — SCALE : 1/4"=1'-0" | 2



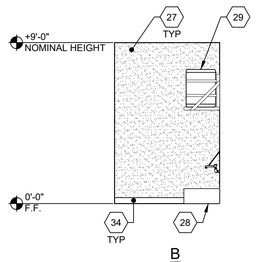
WARMING KITCHEN REAR END WALL ELEVATION - ROOM 10 — SCALE : 1/4"=1'-0" | 3



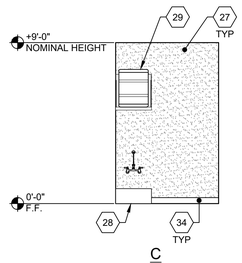
WARMING KITCHEN SIDE WALL ELEVATION - ROOM 10 — SCALE : 1/4"=1'-0" | 4



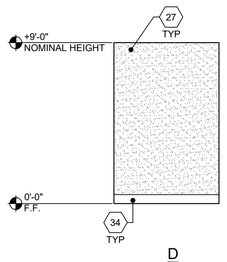
A



B



C



D

JANITOR - ROOM 13 — SCALE : 1/4"=1'-0" | 5

1 NOT USED
2 TYP EXTERIOR DOOR
3 NOT USED
4 TYP MOD LINE
5 NOT USED
6 FULL PANEL CLOSE-UP AT MOD-LINES, TYP
7 NOT USED
8 NOT USED
9 NOT USED
10 NOT USED
11 NOT USED
12 NOT USED.
13 NOT USED
14 LIGHT SWITCH - SEE ELECTRICAL SHEETS
15 EXIT TACTILE SIGN PER DETAIL 10/N4.0 (NIC)
16 NOT USED
17 FIRE EXTINGUISHER TOP OF HANDLE @ +48" MAX. A.F.F.
PROTRUSION MAX 4" FROM WALL IF BOTTOM OF
FIRE EXTINGUISHER GREATER THAN +27" A.F.F
18 TYP DUPLEX OUTLET - SEE ELECTRICAL SHEETS
19 NOT USED
20 NOT USED
21 3 BIN SINK WITH WASHBOARDS
22 UTILITY SINK
23 TYP. INTERIOR DOOR
24 NOT USED
25 NOT USED
26 NOT USED
27 FRP. FIBER REINFORCEMENT PLASTIC
28 JANITOR SINK
29 WATER HEATER PER 1/P3.0
30 NOT USED
31 NOT USED
32 ROLL UP WINDOW
33 COUNTER TOP
34 6" CLEF COVED BASE - EPOXY
35 NOT USED
36 HOOD (BY OTHERS) - DETAILS PER AOR DWGS 2/A7.0, BLOCKING PER S3.1

KEY NOTES — 8

NOT USED — 6

NOT USED — 7

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING
FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK RICHARD DEMERS
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
BRYAN PATRICK CHRISTIANSEN
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

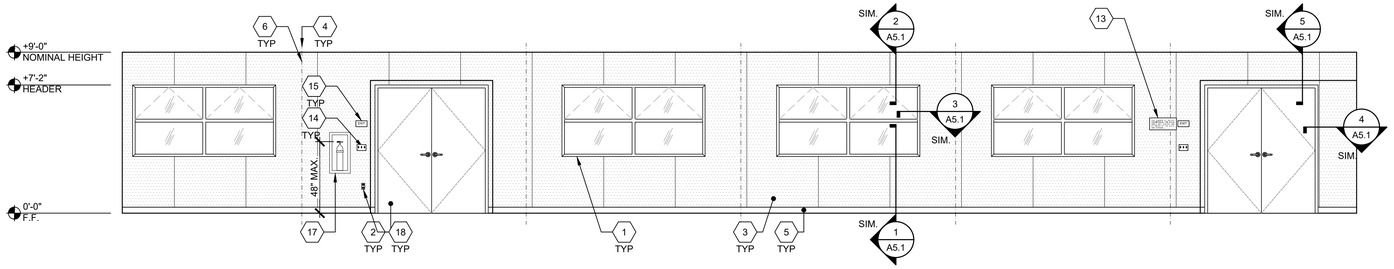
REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
INTERIOR ELEVATIONS
@
GROUND FLOOR

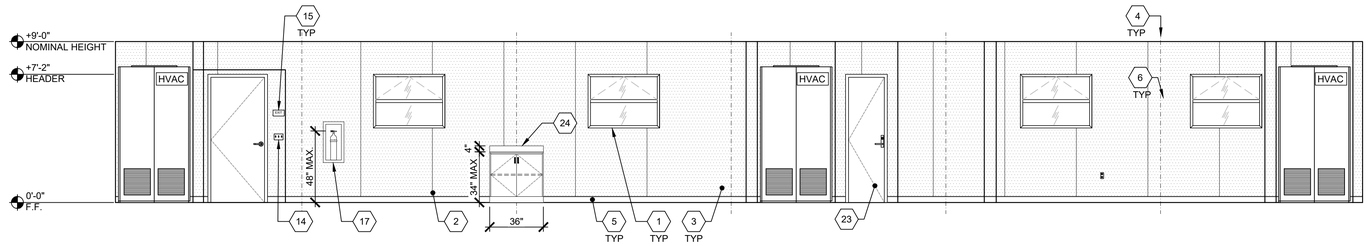
SHEET NUMBER:
A4.0A

G:\XXXX 3-Docs \# JOB \ARCH\2022 12 PM PLOTTED 6/21/2022 8:41 AM BY Priyanka\06-999\06-999\06-999\06-999\06-999\21 Santa Cruz City Schools Gault ES\REC\MAIN\DWG\17 - 03 - 119149 - A4.0 - Gault ES - CLASSIM.RAT ELEV.dwg



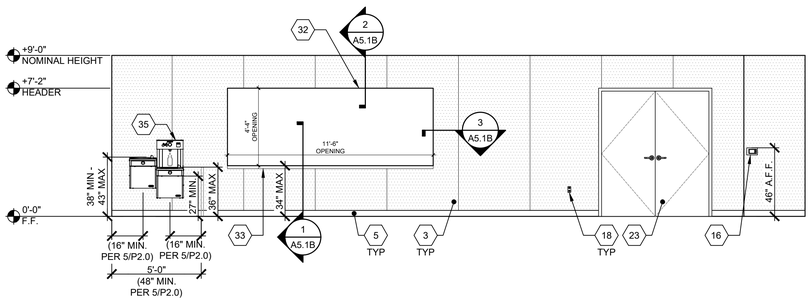
MULTIPURPOSE ROOM FRONT END WALL ELEVATION - ROOM 11

SCALE : 1/4"=1'-0" | 1



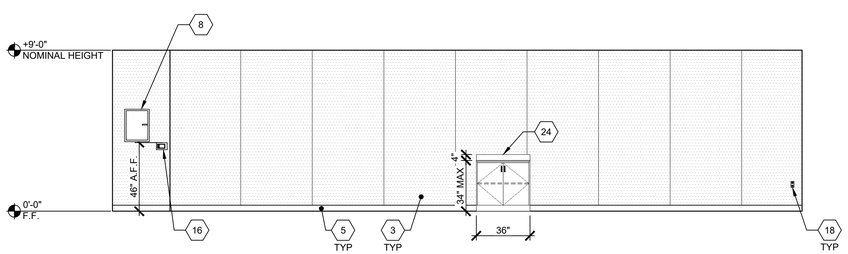
MULTIPURPOSE ROOM REAR END WALL ELEVATION - ROOM 11

SCALE : 1/4"=1'-0" | 2



MULTIPURPOSE ROOM SIDE WALL ELEVATION - ROOM 11

SCALE : 1/4"=1'-0" | 3



MULTIPURPOSE ROOM SIDE WALL ELEVATION - ROOM 11

SCALE : 1/4"=1'-0" | 4

KEY NOTES

1. WINDOW, SEE SPEC'S
2. TYP EXTERIOR DOOR
3. TACKBOARD - (FLAME RESISTANT INDUSTRIAL TACKABLE BOARD) - SHALL BE CLASS A RATED (ASTM E-84). NOMINAL PANEL THICKNESS SHALL BE ± 0.5" AND SHALL BE INSTALED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.
4. TYP MOD LINE
5. TOP SET BASE
6. FULL PANEL CLOSE-UP AT MOD-LINES, TYP
7. NOT USED
8. ELECTRICAL PANEL - SEE ELECTRICAL SHEETS
9. NOT USED
10. (2) 8'x4' MARKER BOARDS - SEE DETAIL 8/A4.0
11. CLOCK
12. NOT USED
13. OCCUPANT LOAD SIGN PER DETAIL 11/N4.0 (BY OTHERS)
14. LIGHT SWITCH - SEE ELECTRICAL SHEETS
15. EXIT TACTILE SIGN PER DETAIL 10/N4.0 (NIC)
16. THERMOSTAT, TOP @ 46" A.F.F. - SEE MECHANICAL SHEETS
17. FIRE EXTINGUISHER TOP OF HANDLE @ +48" MAX. A.F.F. PROTRUSION MAX 4" FROM WALL IF BOTTOM OF FIRE EXTINGUISHER GREATER THAN +27" A.F.F
18. TYP DUPLEX OUTLET - SEE ELECTRICAL SHEETS
19. NOT USED
20. NOT USED
21. NOT USED
22. NOT USED
23. TYP. INTERIOR DOOR
24. CASEWORK-BLOCKING PER A7.1
25. NOT USED
26. NOT USED
27. NOT USED
28. NOT USED
29. NOT USED
30. NOT USED
31. NOT USED
32. ROLL UP WINDOW
33. COUNTER TOP
34. NOT USED
35. DRINKING FOUNTAIN PER P2.0 AND GUARD RAILS PER 10/A7.2

NOT USED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME

120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
PATRICK O'NEIL WALSH
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
PATRICK O'NEIL WALSH
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

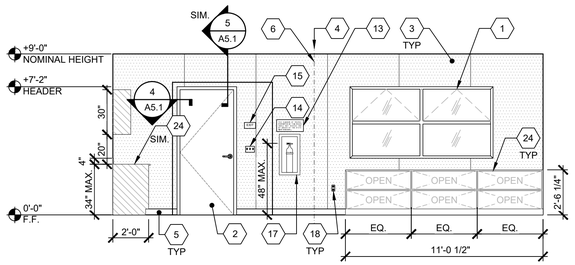
SHEET TITLE:

INTERIOR ELEVATIONS
@
GROUND FLOOR

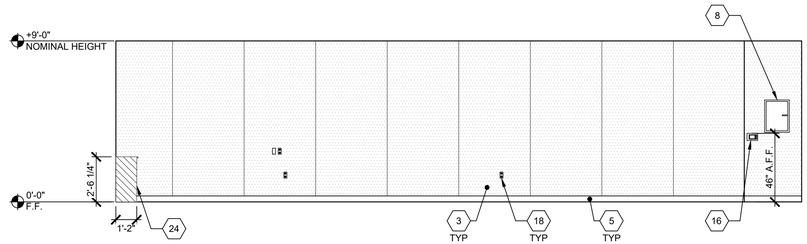
SHEET NUMBER:

A4.0B

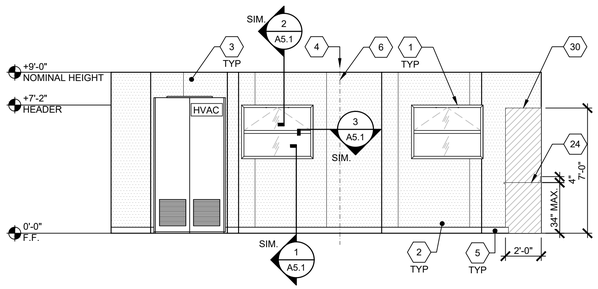
XX-XXXX 3.0mm HF 208 HF SHED 6/16/2022 1:25 PM PLOTTED 6/17/2022 9:47 AM W:\Projects\1656-1699-1600-1699\1657-21 Santa Cruz City Schools Gault ES\PRE-MANAFACTURING\1-21 - 119164 - A4.x - Gault ES - CLASSROM INT ELEV.dwg



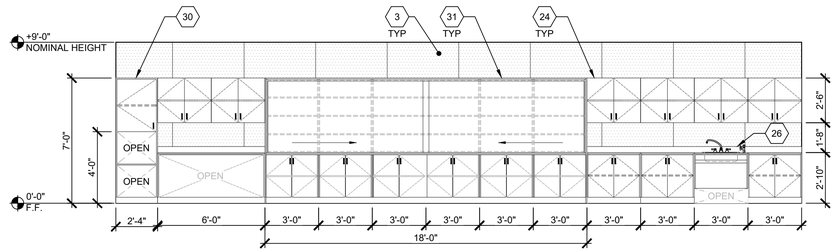
ART ROOM FRONT END WALL ELEVATION - ROOM 12 — SCALE : 1/4"=1'-0" | 1



ART ROOM SIDE WALL ELEVATION - ROOM 12 — SCALE : 1/4"=1'-0" | 2



ART ROOM REAR END WALL ELEVATION - ROOM 12 — SCALE : 1/4"=1'-0" | 3



ART ROOM SIDE WALL ELEVATION - ROOM 12 — SCALE : 1/4"=1'-0" | 4

NOT USED | 5

NOT USED | 3

NOT USED | 4

NOT USED | 5

KEY NOTES

1. WINDOW, SEE SPEC'S
2. TYP EXTERIOR DOOR
3. TACKBOARD - (FLAME RESISTANT INDUSTRIAL TACKABLE BOARD) - SHALL BE CLASS A RATED (ASTM E-84). NOMINAL PANEL THICKNESS SHALL BE ± 0.5" AND SHALL BE INSTALED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.
4. TYP MOD LINE
5. TOP SET BASE
6. FULL PANEL CLOSE-UP AT MOD-LINES, TYP
7. NOT USED
8. ELECTRICAL PANEL - SEE ELECTRICAL SHEETS
9. NOT USED
10. NOT USED
11. CLOCK
12. NOT USED
13. OCCUPANT LOAD SIGN PER DETAIL 11/N4.0 (BY OTHERS)
14. LIGHT SWITCH - SEE ELECTRICAL SHEETS
15. EXIT TACTILE SIGN PER DETAIL 10/N4.0 (NIC)
16. THERMOSTAT, TOP @ 48" A.F.F. - SEE MECHANICAL SHEETS
17. FIRE EXTINGUISHER TOP OF HANDLE @ +48" MAX. A.F.F. PROTRUSION MAX 4" FROM WALL IF BOTTOM OF FIRE EXTINGUISHER GREATER THAN +27" A.F.F
18. TYP DUPLEX OUTLET - SEE ELECTRICAL SHEETS
19. NOT USED
20. HORN/STROBE J-BOX - SEE ELECTRICAL SHEETS
21. NOT USED
22. NOT USED
23. TYP. INTERIOR DOOR
24. CASEWORK-BLOCKING PER A7.1
25. NOT USED
26. CASEWORK W/SINK - REFER TO A7.1 FOR BLOCKING & 3/-
27. NOT USED
28. NOT USED
29. NOT USED
30. TALL CABINET
31. TEACHING WALL CABINET

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK BOARD OF
BATES
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
PATRICK DONOVAN
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

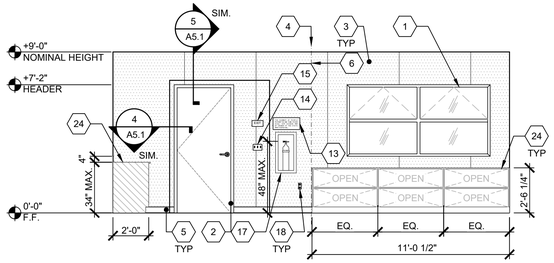
REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

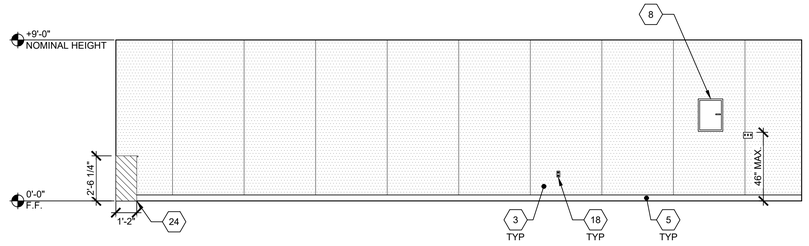
SHEET TITLE:
INTERIOR ELEVATIONS
@
GROUND FLOOR

SHEET NUMBER:
A4.0C

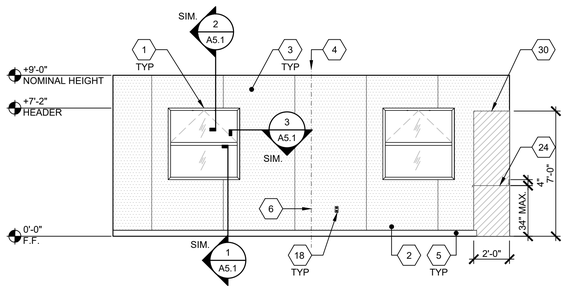
G:\XXXXX - Sdwg ref - 22ft x 64' - BARD - 6/14/2021 2:05 PM - PLOTTED: 6/21/2022 3:47 AM - M:\Projects\1500-1599\1600-1699\1657-21 Santa Cruz City Schools- Gault ES\PRELIM\ARCH\1657-21 - 02 - 119144 - A4.0 - Gault ES - CLASSIM INT ELEV.dwg



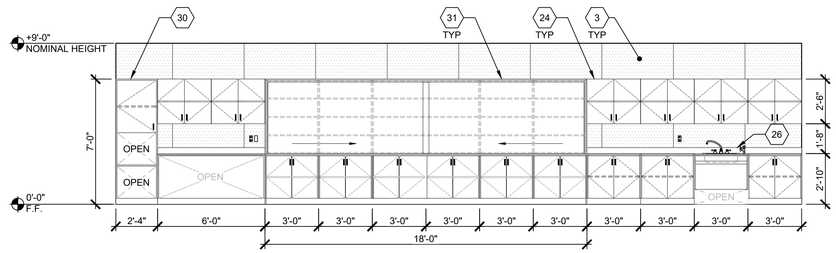
TYPICAL CLASSROOM FRONT END WALL ELEVATION - ROOM 1,2,3,4 & 5 SCALE : 1/4"=1'-0" | 1



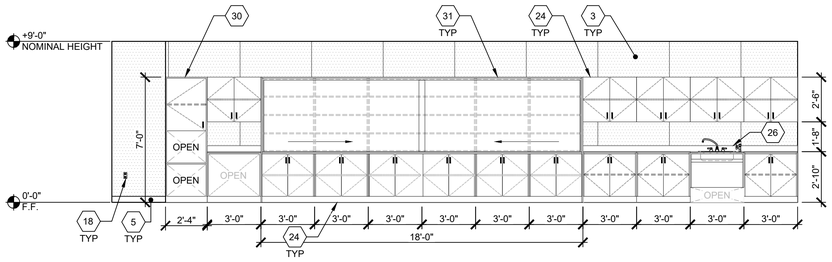
TYPICAL CLASSROOM SIDE WALL ELEVATION - ROOM 1,2,3,4 & 5 SCALE : 1/4"=1'-0" | 2



TYPICAL CLASSROOM REAR END WALL ELEVATION - ROOM 1,2,3,4 & 5 SCALE : 1/4"=1'-0" | 3



TYPICAL CLASSROOM SIDE WALL ELEVATION - ROOM 1,2,3 & 5 SCALE : 1/4"=1'-0" | 4



CLASSROOM SIDE WALL ELEVATION - ROOM 4 SCALE : 1/4"=1'-0" | 5

NOT USED | 6

NOT USED | 7

NOT USED | 8

NOT USED | 9

1 WINDOW, SEE SPEC'S
2 TYP EXTERIOR DOOR
3 TACKBOARD - (FLAME RESISTANT INDUSTRIAL TACKABLE BOARD) - SHALL BE CLASS A RATED (ASTM E-84). NOMINAL PANEL THICKNESS SHALL BE ± 0.5" AND SHALL BE INSTALED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.
4 TYP MOD LINE
5 TOP SET BASE
6 FULL PANEL CLOSE-UP AT MOD-LINES, TYP
7 NOT USED
8 ELECTRICAL PANEL - SEE ELECTRICAL SHEETS
9 NOT USED
10 NOT USED
11 NOT USED
12 NOT USED
13 OCCUPANT LOAD SIGN PER DETAIL 11/N4.0 (BY OTHERS)
14 LIGHT SWITCH - SEE ELECTRICAL SHEETS
15 EXIT TACTILE SIGN PER DETAIL 10/N4.0 (NIC)
16 THERMOSTAT, TOP @ 46" A.F.F. - SEE MECHANICAL SHEETS
17 FIRE EXTINGUISHER TOP OF HANDLE @ +48" MAX. A.F.F. PROTRUSION MAX 4" FROM WALL IF BOTTOM OF FIRE EXTINGUISHER GREATER THAN +27" A.F.F
18 TYP DUPLEX OUTLET - SEE ELECTRICAL SHEETS
19 NOT USED
20 NOT USED
21 NOT USED
22 NOT USED
23 TYP. INTERIOR DOOR
24 CASEWORK-BLOCKING PER A7.1
25 NOT USED
26 CASEWORK W/SINK - REFER TO A7.1 FOR BLOCKING & 3/-
27 NOT USED
28 NOT USED
29 NOT USED
30 TALL CABINET
31 TEACHING WALL CABINET

NOTE:
PROVIDE U SHAPED WIRE PULLS AT ALL ACCESSIBLE PULL HARDWARE THAT DOES NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST.

KEY NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
PATRICK JOSEPH MCGRATH
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
PATRICK JOSEPH MCGRATH
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

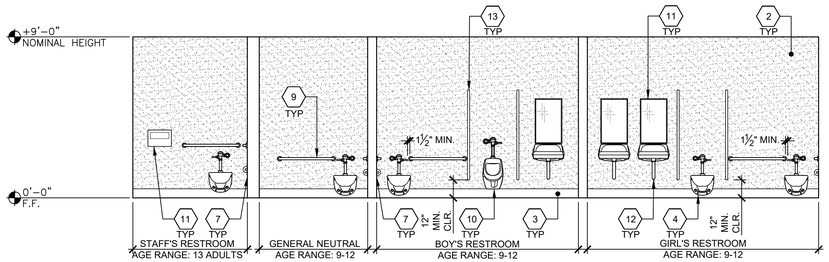
REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

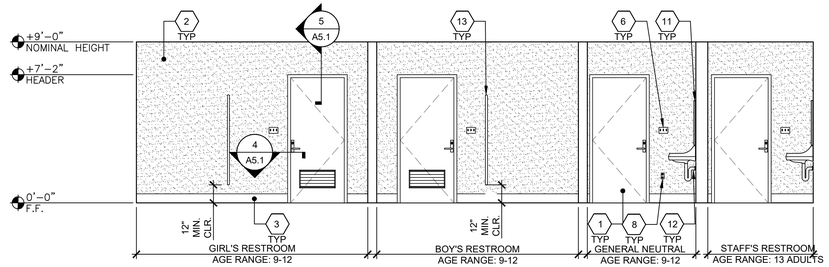
SHEET TITLE:
INTERIOR ELEVATIONS
@
UPPER FLOOR

SHEET NUMBER:
A4.0D

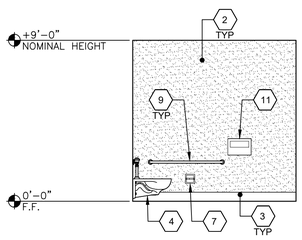
D:\XXXXX - Sdwg ref - 22ft x 40' - SAVED - 6/14/2021 2:05 PM - PLOTTED: 6/21/2021 9:48 AM - M:\Projects\1656-1699\1656-1699\1657-21 Santa Cruz City Schools- Gault ES\PRELIMINARY\DWG\1657-21 - 01 119144 - A4.0 - Gault ES - CLASSRM INT ELEV.dwg



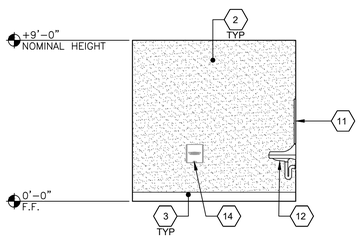
GIRLS, STAFF, GENERAL NEUTRAL & BOYS R.R. ELEVATION SCALE : 1/4"=1'-0" 1



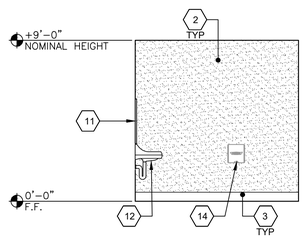
GIRLS, STAFF, GENERAL NEUTRAL & BOYS R.R. ELEVATION SCALE : 1/4"=1'-0" 2



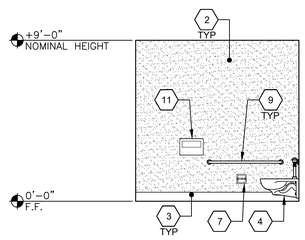
GIRLS RESTROOM ELEVATION SCALE : 1/4"=1'-0" 3



GIRLS RESTROOM ELEVATION SCALE : 1/4"=1'-0" 4



BOYS RESTROOM ELEVATION SCALE : 1/4"=1'-0" 5

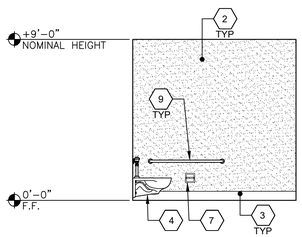


BOYS RESTROOM ELEVATION SCALE : 1/4"=1'-0" 6

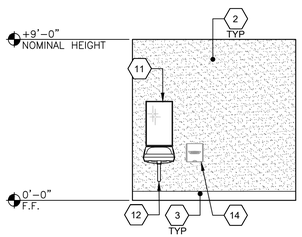
KEY NOTES

1. TYPICAL DOOR
2. F.R.P.(FIBER REINFORCED PLASTIC) - SHALL BE CLASS C RATED (ASTM E-84) EMBOSSED & SMOOTH INTERIOR WALL PANELS. NOMINAL PANELS. NOMINAL PANEL THICKNESS SHALL BE ± 0.090 - PANEL SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.
3. 6" CLEF COVED BASE - EPOXY
4. ACCESSIBLE TOILET - SEE DETAIL 11/P3.0
5. NOT USED
6. LIGHT SWITCH, SEE ELECTRICAL SHEETS
7. TOILET PAPER DISPENSER
8. TYP. GFIC OUTLET, SEE ELECTRICAL SHEETS
9. GRAB BAR - SEE 6/A7.2
10. ACCESSIBLE URINAL - SEE DETAIL 4/P3.0
11. TYP. MIRROR (19# MAX WEIGHT) - SEE DETAIL 12/P3.0
12. ACCESSIBLE LAVATORY - SEE DETAIL 12/P3.0
13. TOILET PARTITION: SOLID PLASTIC BY ACCURATE PARTITIONS CORP. w/ FLOOR ANCHORS, OVERHEAD BRACED OR EQUIVALENT. MINIMUM FLAME SPREAD RATING: 50. MINIMUM SMOKE DEVELOPMENT RATING: 450 (BY OTHERS)
14. HAND DRYER (BY OTHERS)
15. INSTA-HOT WATER HEATER SEE P2.0 FOR DETAIL

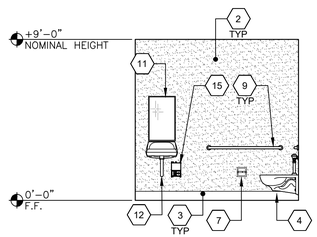
NOTE: FOR ACCESSIBLE FIXTURES & ACCESSORIES MOUNTING HEIGHT REQUIREMENTS (PER CBC CHAPTER 11B), SEE SHEET P3.0, DETAIL 7.



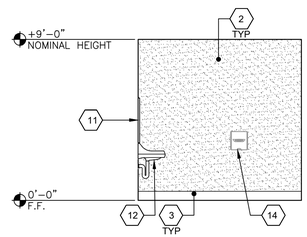
GENERAL NEUTRAL RR. ELEVATION SCALE : 1/4"=1'-0" 7



GENERAL NEUTRAL RR. ELEVATION SCALE : 1/4"=1'-0" 8



STAFF RESTROOM ELEVATION SCALE : 1/4"=1'-0" 9



STAFF RESTROOM ELEVATION SCALE : 1/4"=1'-0" 10

NOT USED 11

NOT USED 12

NOT USED 13

NOT USED 14

NOT USED 15

NOT USED 16

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME

120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT PATRICK GAULT No. C12631 Ren. 3-31-23 STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT PATRICK GAULT No. C12631 Ren. 3-31-23 STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

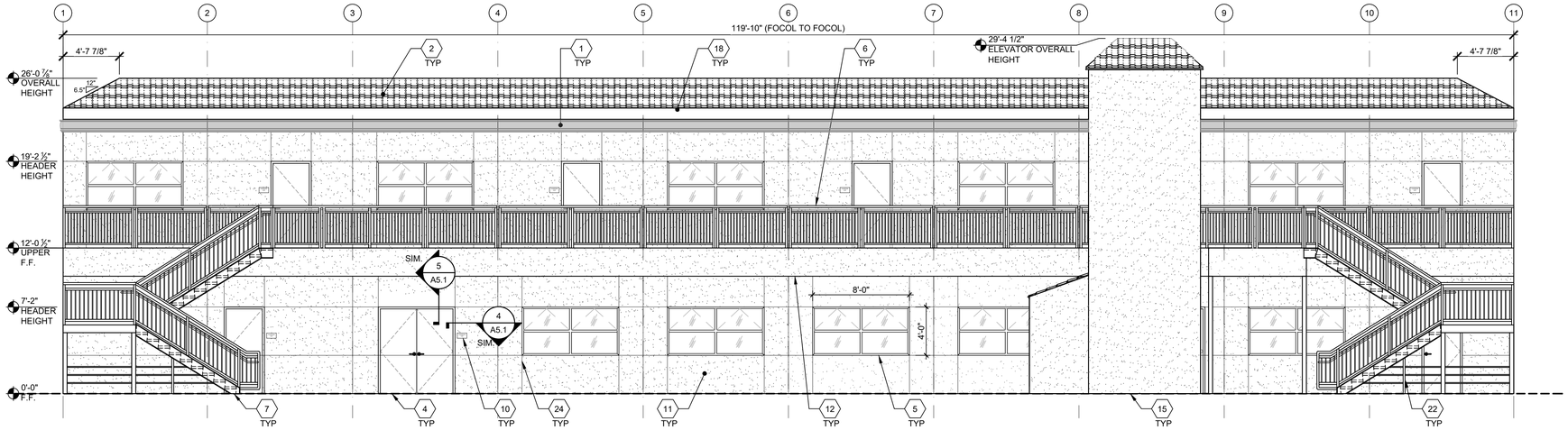
SHEET TITLE:

INTERIOR ELEVATIONS
@
RESTROOMS

SHEET NUMBER:

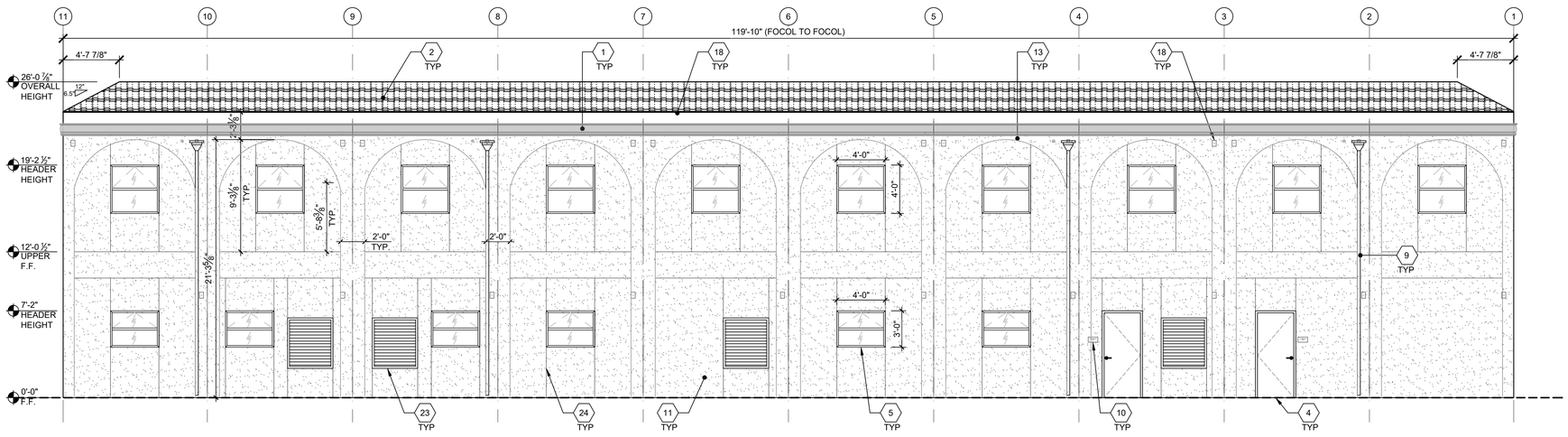
A4.1

G:\XXXXX- X Sites ref - ZIP 1.4.5F - SAVED - 2/11/2022 1:24:24 PM - PLOTTED: 6/1/2022 9:48 AM - M:\Projects\1500-1599\1600-1699\1657-21 Santa Cruz City Schools Gault\ESP\RELEASAVE\DWG\A4.1 - 2D - 11X17 - A4.1 - Gault ES - RESTRM ELEV.dwg



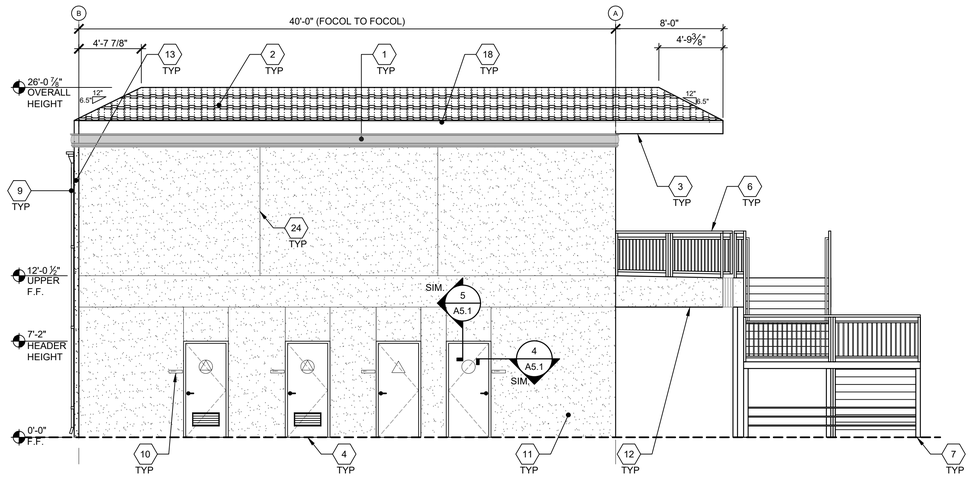
EXTERIOR ELEVATION - FRONT

SCALE: 3/16" = 1' - 0" 1



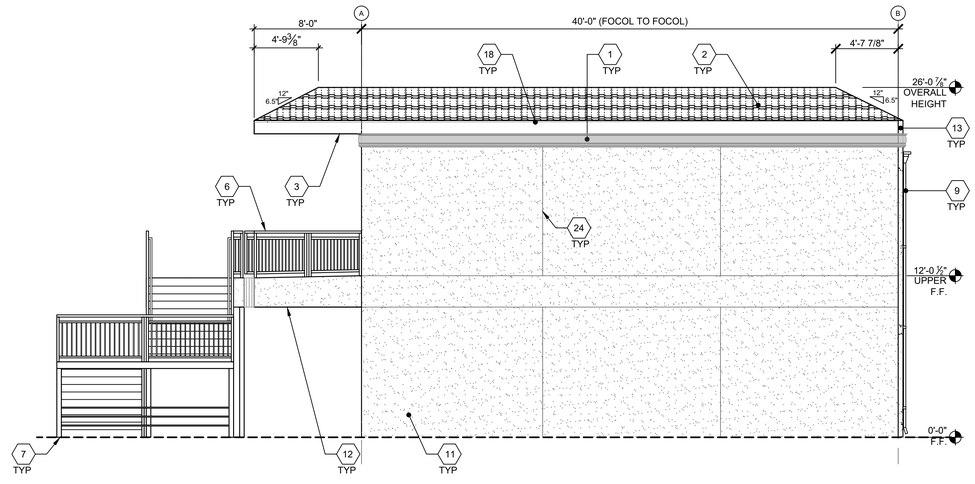
EXTERIOR ELEVATION - REAR

SCALE: 3/16" = 1' - 0" 2



EXTERIOR ELEVATION - LEFT

SCALE: 3/16" = 1' - 0" 3



EXTERIOR ELEVATION - RIGHT

SCALE: 3/16" = 1' - 0" 4

KEYNOTES

1. FOAM CORNICE
2. MET-TILE ROOFING
3. OVERHANG - SEE ROOF PLAN, STRUCTURAL
4. TYP. EXTERIOR DOOR - SEE SCHEDULE ON SHEET N4.0
5. WINDOW - SEE SCHEDULE ON SHEET N4.0
6. GUARDRAIL & RAILING - SEE STRUCTURAL SHEET S11.0
7. STAIRS WHERE OCCURS - SEE FLOOR PLANS AND STRUCTURAL SHEET S11.0.
8. NOT USED
9. DOWNSPOUT - SEE DETAIL 10 & 15/A5.1
10. ROOM ID AND ISA SIGNAGE (BY OTHERS) SEE DETAILS 5 & 9/N4.0 - TYP.
11. STUCCO FINISH
12. BALCONY WALKWAY PER SHEET S10.0
13. BUMP OUT WALL ARCHWAY
14. EXTERIOR LIGHT - SEE ELECTRICAL PLANS
15. ELEVATOR
16. NOT USED
17. NOT USED
18. GUTTER - SEE DETAIL 5/A2.1
19. MODULAR IDENTIFICATION TAG @ +90" A.F.F.
20. FIRE ALARM HORN - SEE ELECTRICAL PLANS
21. ROOF LINE
22. PROVIDE CANE DETECTABLE RAILING WHERE VERTICAL CLEARANCE IS LESS THAN 80" (PER C.B.C. SECTION 11B-307.4) - SEE SHEET B/S11.0.1C
23. HVAC OUTSIDE LOUVER
24. CONTROL JOINT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME

120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK RICHARD WEAVER
No. C12631
Ren. 8-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
PATRICK JOHNSON
No. C12631
Ren. 8-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	07/26/22
PROJECT NO:	1657-21

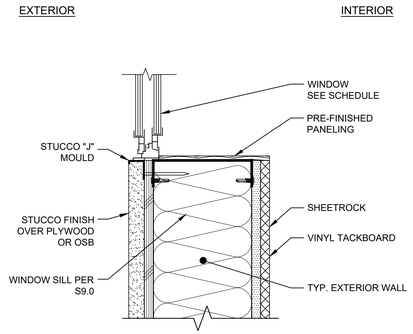
SHEET TITLE:

TYPICAL
EXTERIOR ELEVATIONS
w/ STUCCO FINISH

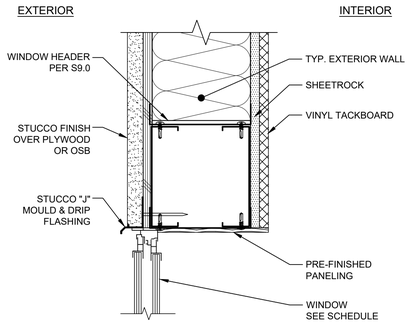
SHEET NUMBER:

A5.0

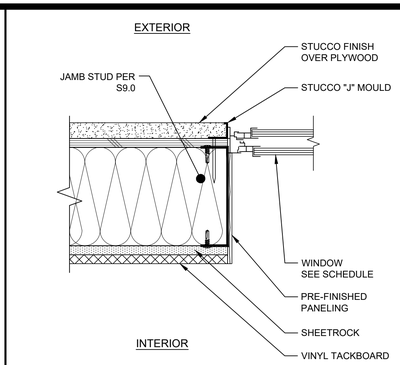
XXXXXX - Sdwg ref: 22ft x 44' 2pHD - 03/02/22 4:26 PM PLOTTED: 7/26/2022 4:27 PM - www.ReflectiveMaps.com 888-568-5887x21 Santa Cruz City Schools - Gault ES(PM) MANUFACTURER - SS - 119-89 - A5.0 - Default ES - EXTERIOR ELEV - STUCCO.dwg



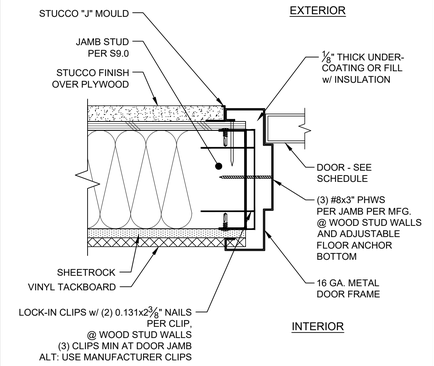
TYPICAL WINDOW SILL SCALE: 3" = 1'-0" 1



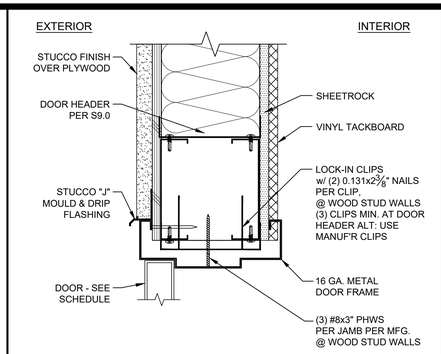
TYPICAL WINDOW HEADER SCALE: 3" = 1'-0" 2



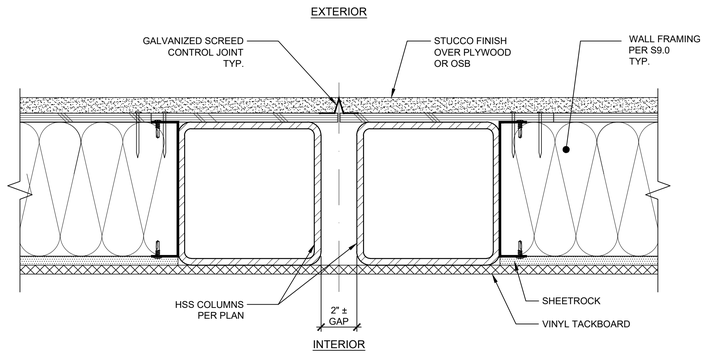
TYPICAL WINDOW JAMB SCALE: 3" = 1'-0" 3



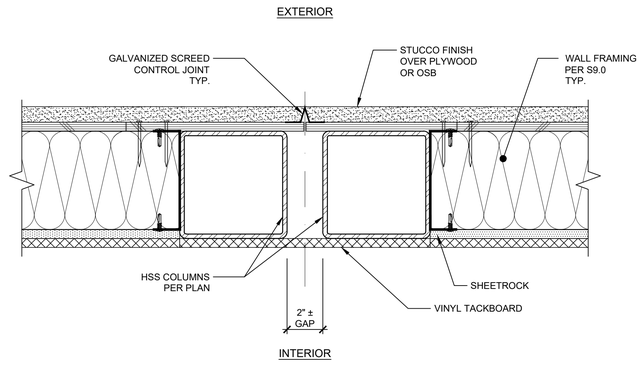
TYPICAL DOOR JAMB SCALE: 3" = 1'-0" 4



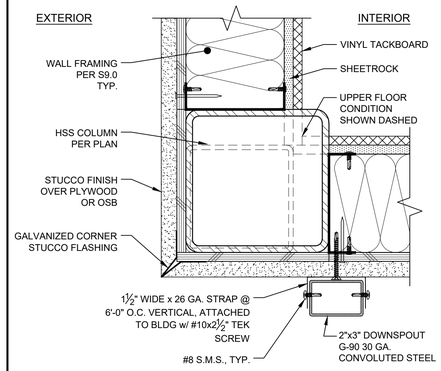
TYPICAL DOOR HEADER SCALE: 3" = 1'-0" 5



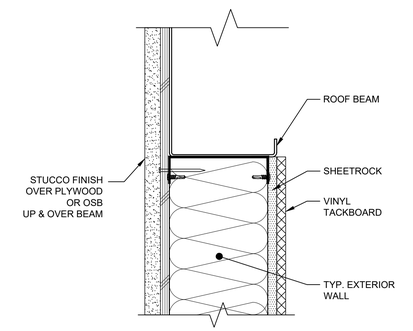
MODLINE CLOSURE @ GROUND FLOOR SCALE: 3" = 1'-0" 7



MODLINE CLOSURE @ UPPER FLOOR SCALE: 3" = 1'-0" 9

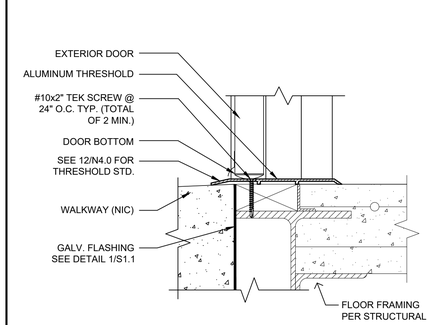


TYPICAL WALL CORNER AND TYPICAL DOWNSPOUT ATTACHMENT SCALE: 3" = 1'-0" 10

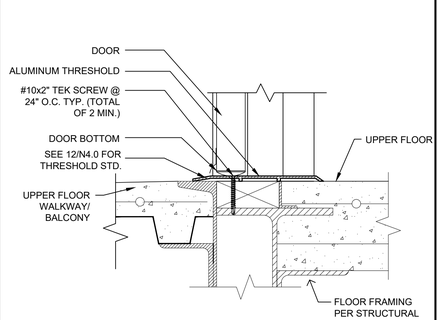


EXTERIOR FINISH @ ROOF BEAM SCALE: 3" = 1'-0" 11

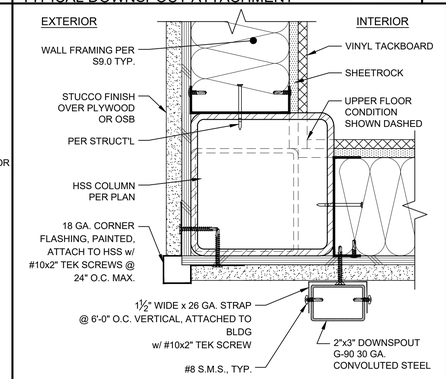
NOT USED 12



THRESHOLD @ GROUND FLOOR SCALE: 3" = 1'-0" 13

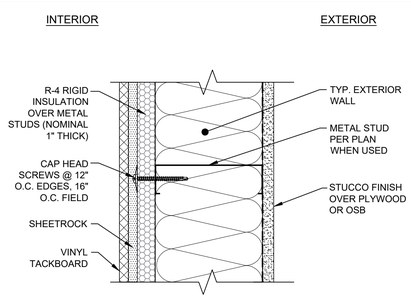


THRESHOLD @ UPPER FLOOR SCALE: 3" = 1'-0" 14

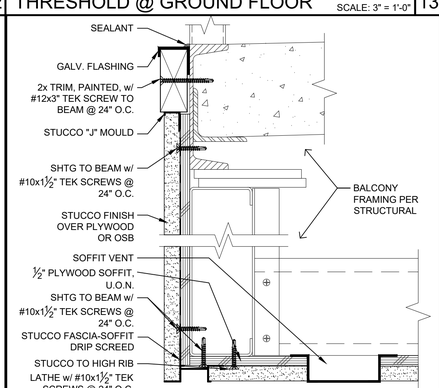


ALTERNATE WALL CORNER AND TYPICAL DOWNSPOUT ATTACHMENT SCALE: 3" = 1'-0" 15

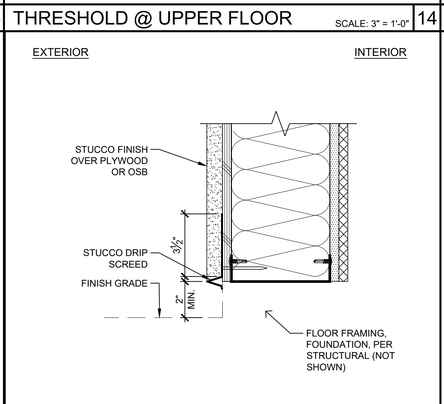
NOT USED SCALE: 3" = 1'-0" 16



RIGID INSULATION @ METAL STUDS SCALE: 3" = 1'-0" 17



STUCCO ON BALCONY DETAIL 18



STUCCO TERMINATION @ GRADE 19

GENERAL NOTES

NOTES:

1. FOR METAL STUD FRAMING, SEE S9.0-S9.2.
2. ADDITIONAL R-4 RIGID INSULATION REQUIRED @ METAL STUD WALLS, SEE SHEET M1.7 & DETAIL 17/-.
3. REFER TO SECTION 9A "STUCCO" ON SHEET N1.0 FOR ALL STUCCO INSTALLATION NOTES.
4. FOR ALL BUILDINGS INSTALLED ON BELOW GRADE FOUNDATIONS, FLASHING & DETERIORATION PROTECTION SHALL BE PROVIDED PER SHEET A5.1A

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING
FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK RICHARD LEONARD
No. C-28138
Ren. 08-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
SIMON PATRICK GLENN HANN
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

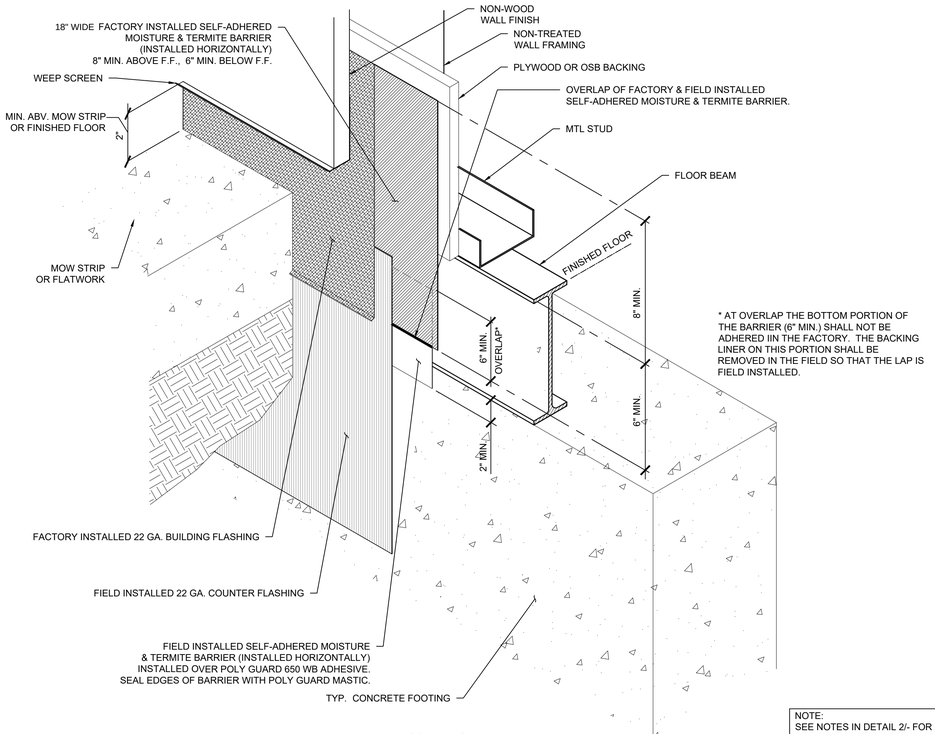
REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
TYPICAL DETAILS FOR STUCCO EXTERIOR FINISH OPTION

SHEET NUMBER:
A5.1

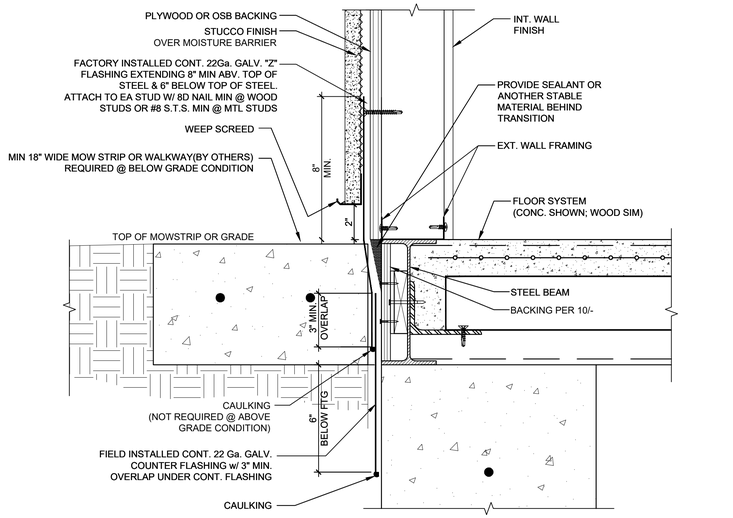
G:\XXXXX_s Docs \# JOB \# \#\ SHEET\ 6/7/2022 3:39 PM ACTED 6/7/2022 3:39 PM Julian.McFarlane@ams-009.009-009-009\BIM\21-13 Santa Cruz City Schools Gault ES\PRELIM\ARCH\SCH_21-13 SHEET A5.1 - DETAILS - EXTERIOR DETAILS - STUCCO.dwg



ISOMETRIC VIEW

* AT OVERLAP THE BOTTOM PORTION OF THE BARRIER (6" MIN.) SHALL NOT BE ADHERED IIN THE FACTORY. THE BACKING LINER ON THIS PORTION SHALL BE REMOVED IN THE FIELD SO THAT THE LAP IS FIELD INSTALLED.

NOTE:
SEE NOTES IN DETAIL 2/- FOR DETERIORATION PROTECTION REQUIREMENTS.
SEE NOTES IN DETAIL 7/- FOR DETERIORATION PROTECTION MATERIALS.



SECTION VIEW

NOTE:
MOISTURE & TERMITE BARRIER NOT SHOWN IN SECTION FOR CLARITY. REFER TO ISOMETRIC VIEW.

MOISTURE AND TERMITE BARRIER MEMBRANE INSTALLATION REQUIREMENTS

- ALL SURFACES SHALL BE CLEAN (FREE OF DIRT, DUST, OIL AND OTHER DEBRIS) PRIOR TO APPLICATION OF THE ADHESIVE AND MEMBRANE.
- ALL SURFACE VOIDS GREATER THAN 1/8" IN WIDTH SHALL BE FILLED WITH SEALANT PRIOR TO INSTALLATION.
- APPLY LIQUID ADHESIVE TO ALL SURFACES WHICH WILL RECEIVE THE POLY-GUARD BARRIER.
- CUT PIECES OF MEMBRANE TO LENGTH AS NEEDED AND APPLY TO SUBSTRATE ONCE THE LIQUID ADHESIVE HAS BECOME TACKY. IMMEDIATELY PRIOR TO MEMBRANE APPLICATION, THE INSTALLER SHALL VERIFY THAT THE ADHESIVE IS STILL TACKY TO THE TOUCH, IF NECESSARY A SECOND LAYER OF ADHESIVE SHALL BE PROVIDED.
- INSTALL MEMBRANE IN A HORIZONTAL ORIENTATION.
- WHERE A HORIZONTAL LAP OCCURS IN THE SELF-ADHERED BARRIER, THE JOINTS SHALL BE LAPPED 2 1/2 INCHES MINIMUM.
- AT BUILDING CORNERS THE MEMBRANE SHALL BE WRAPPED AROUND THE CORNER AND SHALL EXTEND NO LESS THAN 6" BEYOND THE CORNER PRIOR TO LAPPING ANOTHER SHEET, SEE DETAIL 9/-.
- WHERE A MODULE JOINT (MODLINE) OCCURS THE FACTORY INSTALLED MEMBRANE SHALL BE TERMINATED AS SHOWN ON DETAIL 4\-. A FIELD INSTALLED MEMBRANE PIECE SHALL BE APPLIED FOLLOWING THE INSTALLATION OF THE MODULES ON THE FOUNDATION. THE FIELD INSTALLED MEMBRANE PIECE SHALL LAP THE FACTORY INSTALLED MEMBRANE 3" MINIMUM AT EACH END.
- WHERE A VERTICAL LAP OCCURS THE UPPER MEMBRANE LAYER SHALL BE LAPPED OVER THE LOWER MEMBRANE LAYER 6" MINIMUM.
- THE MEMBRANE SHALL BE ROLLED FIRMLY INTO PLACE USING HAND ROLLER.
- APPLY MASTIC OR SEALANT TO TERMINATING EDGES AND AROUND PIPES OR OTHER PENETRATIONS.
- WHERE THE SURFACES ARE OFFSET MORE THAN 1/8" OUT-OF-PLANE PROVIDE SEALANT OR ANOTHER STABLE MATERIAL TO TRANSITION BETWEEN THE SURFACES.
- WHERE A HORIZONTAL LAP OCCURS IN THE GALVANIZED FLASHING THE JOINTS SHALL BE LAPPED 2 1/2" MINIMUM
- REFER TO DETAIL 4/- FOR MODLINE DETERIORATION PROTECTION

REPAIR REQUIREMENTS

WHERE DAMAGE OCCURS, THE REPAIRS SHALL BE AS FOLLOWS:

1. WHERE THE DAMAGE MEASURES LESS THAN ½" IN ANY DIRECTION THE PUNCTURE SHALL BE SEALED WITH MASTIC.
2. WHERE THE DAMAGE MEASURES MORE THAN ½", BUT LESS THAN 2", IN ANY DIRECTION A PATCH SHALL BE INSTALLED OVER THE DAMAGE USING THE SAME MEMBRANE MATERIAL. THE PATCH SHALL OVERLAP 4" MINIMUM IN ALL DIRECTION.
3. WHERE THE DAMAGE MEASURES MORE THAN 2" IN ANY DIRECTION THE DAMAGED PORTION SHALL BE REMOVE AND A PIECE OF MEMBRANE SHALL BE INSTALLED. THE PATCH SHALL OVERLAP 4" MINIMUM IN ALL DIRECTIONS.

INSPECTION REQUIREMENTS

THE IN-PLANT INSPECTOR SHALL OBSERVE THE INSTALLATION OF FACTORY INSTALLED PORTION OF THE MEMBRANE FLASHING. THE ADHESIVE AND MEMBRANE SHALL BE INSTALLED IN ACCORDANCE WITH THESE INSTALLATION INSTRUCTIONS. ALL OVERLAPS SHALL BE AS INDICATED WITHIN THIS DRAWING PACKAGE. THE MEMBRANE SHALL BE CONTINUOUS UP THE WALL TO A MINIMUM HEIGHT ABOVE FINISH FLOOR AS INDICATED WITHIN THIS DRAWING PACKAGE.

THE ON-SITE INSPECTOR SHALL OBSERVE THE INSTALLATION OF THE SITE INSTALLED PORTION OF THE MEMBRANE FLASHING. THE FACTORY INSTALLED MEMBRANE SHOULD BE INVESTIGATED TO DETERMINE IF ANY DAMAGE OCCURRED DURING MODULE SHIPMENT/INSTALLATION PRIOR TO PROCEEDING WITH THE SITE INSTALLED MEMBRANE PLACEMENT. THE ADHESIVE AND MEMBRANE SHALL BE INSTALLED IN ACCORDANCE WITH THESE INSTALLATION INSTRUCTIONS. ALL OVERLAPS SHALL BE AS INDICATED WITHIN THIS DRAWING PACKAGE. THE MEMBRANE SHALL BE LAPPED ONTO THE FOUNDATION WALL AS INDICATED WITHIN THIS DRAWING PACKAGE. THE GALVANIZED FLASHING SHALL BE INSTALLED OVER THE MEMBRANE. THE GALVANIZED FLASHING SHALL BE CONTINUOUS UP THE WALL TO A MINIMUM HEIGHT ABOVE FINISH FLOOR AS INDICATED WITHIN THIS DRAWING PACKAGE AND SHALL CONTINUE BELOW THE BOTTOM OF THE FLATWORK OR MOW STRIP AS INDICATED WITHIN THIS DRAWING PACKAGE.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME

120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK RICHARD SCHLOSSER
No. C-31139
Ren. 3-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
PATRICK CRAWFORD
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

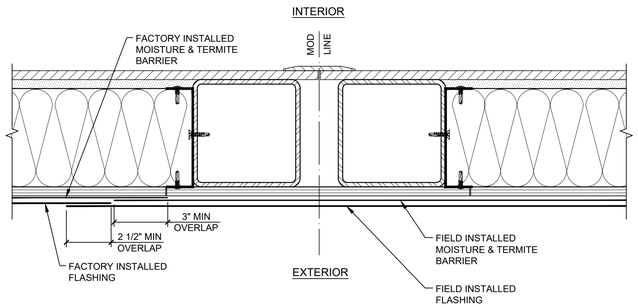
SHEET TITLE:

DETERIORATION DETAILS
- STUCCO FINISH
CONCRETE FLOOR

SHEET NUMBER:

A5.1A

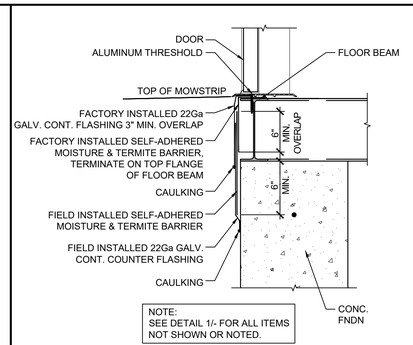
DETERIORATION PROTECTION 1



NOTES:
1. SHOWN SLIGHTLY EXPLODED AT MODLINE FOR CLARITY.
2. SEE DETAIL 1/- FOR REQUIRED HEIGHT OF BARRIER AND FLASHING ON WALL.
3. UTILIZE TYPICAL BUILDING DETAILS FOR MOD LINE FINISHING ABOVE DETERIORATION PROTECTION.
4. WALL FINISH NOT SHOWN FOR CLARITY.

DETERIORATION PROTECTION DETAIL @ MOD LINE 4

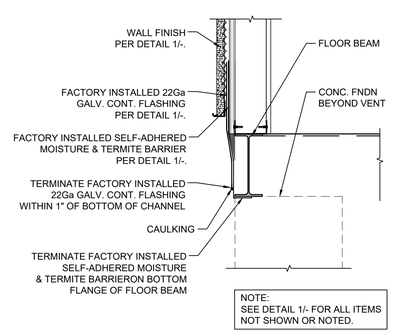
SCALE: 3" = 1'-0"



NOTE:
SEE DETAIL 1/- FOR ALL ITEMS NOT SHOWN OR NOTED.

DETERIORATION PROTECTION @ THRESHOLD 5

SCALE: 1-1/2" = 1'-0"



NOTE:
SEE DETAIL 1/- FOR ALL ITEMS NOT SHOWN OR NOTED.

DETERIORATION PROTECTION @ VENT ACCESS 6

SCALE: 1-1/2" = 1'-0"

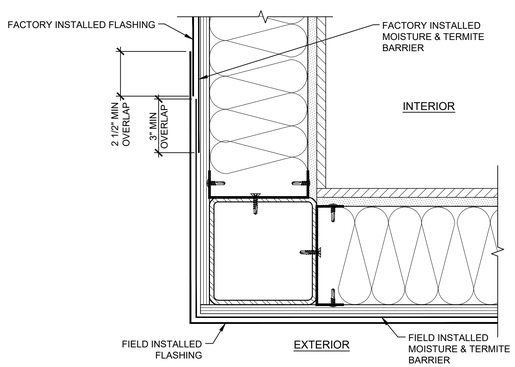
DETERIORATION PROTECTION REQUIREMENTS 2

MATERIALS USED FOR DETERIORATION PROTECTION SHAL BE AS FOLLOWS:

1. FACTORY INSTALLED SEFL-ADHERED TERMITE BARRIER SHALL BE "POLYGUARD TERM" FLASHING MOISTURE/TERMITE BARRIER OR EQ. WITH FOIL FACE UV BARRIER.
2. FIELD INSTALLED SEFL-ADHERED TERMITE BARRIER SHALL BE "POLYGUARD TERM" WATER TERMITE/BARRIER FOR CONCRETE FOUNDATIONS OR EQ.
3. LIQUID ADHESIVE SHALL BE "POLYGUARD" 650WB OR EQ.

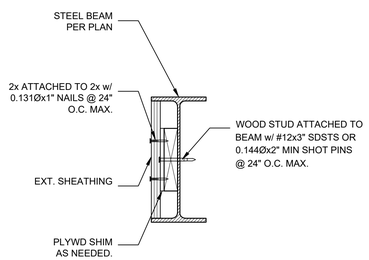
DETERIORATION PROTECTION MATERIALS 7

1. DETERIORATION DETAILS SHOWN ON THIS SHEET ARE ONLY REQUIRED FOR BUILDINGS INSTALLED WITH BELOW GRADE FOUNDATIONS.
2. DETERIORATION DETAILS SHOWN ON THIS SHEET ARE NOT REQUIRED FOR BUILDINGS WITH CONCRETE FLOORS & MTL STUDS WHERE ALL WALL FINISHES AND BACKING ARE P.T. OR NON-WOOD MATERIAL.
3. THE DETERIORATION DETAILS SHOWN ON THIS SHEET SHALL BE USED AT THE BUILDINGS PERIMETER & SHALL EXTEND VERTICALLY UP THE WALL TO THE MIN. HEIGHT REQUIRED PER DETAIL 1/-. THE TYPICAL BUILDING DETAILS FOR MOD LINE FINISHING MAY BE USED ABOVE THAT POINT.



DETERIORATION PROTECTION DETAIL @ CORNER 9

SCALE: 3" = 1'-0"



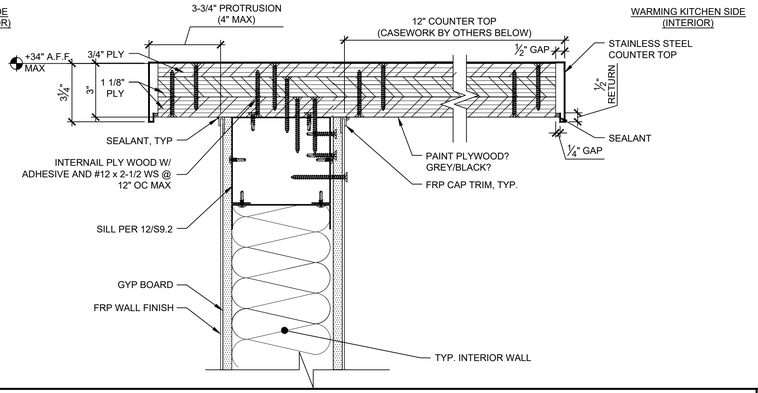
BACKING DETAIL 10

SCALE: 3" = 1'-0"

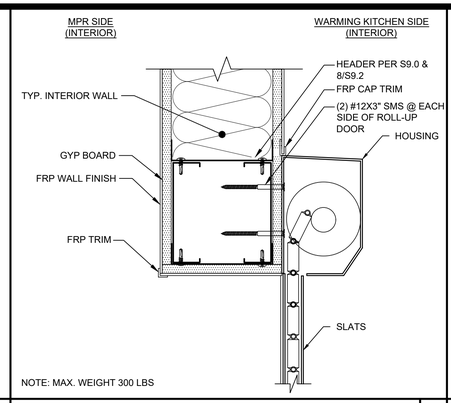
NOT USED 11

SHEET NOTES 12

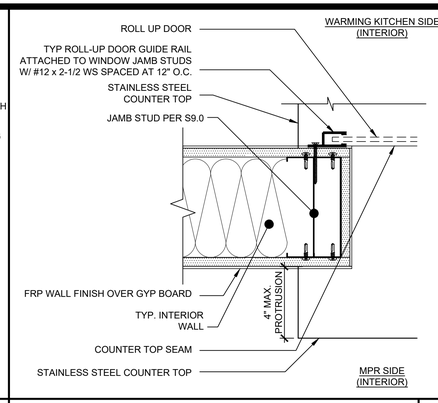
G:\XXXXX-3\Revit #\ - 22# 4-#\ - DA\01-9/7/2022 3:53 PM AUTO\ 9/7/2022 3:53 PM dulce.fall-on@gsa.net\05-BIM-Mdls-BIM\1657-21-Santa Cruz City Schools Gault ES\PRELIM\ARVO5A21.rvt - 1:1Hv3 - A3.1A - Gault ES - EXTERIOR DETAILS - STUCCO\Views\Key



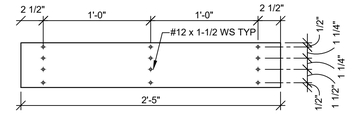
OPENING SILL @ ROLL UP DOOR SCALE: 3" = 1'-0" 1



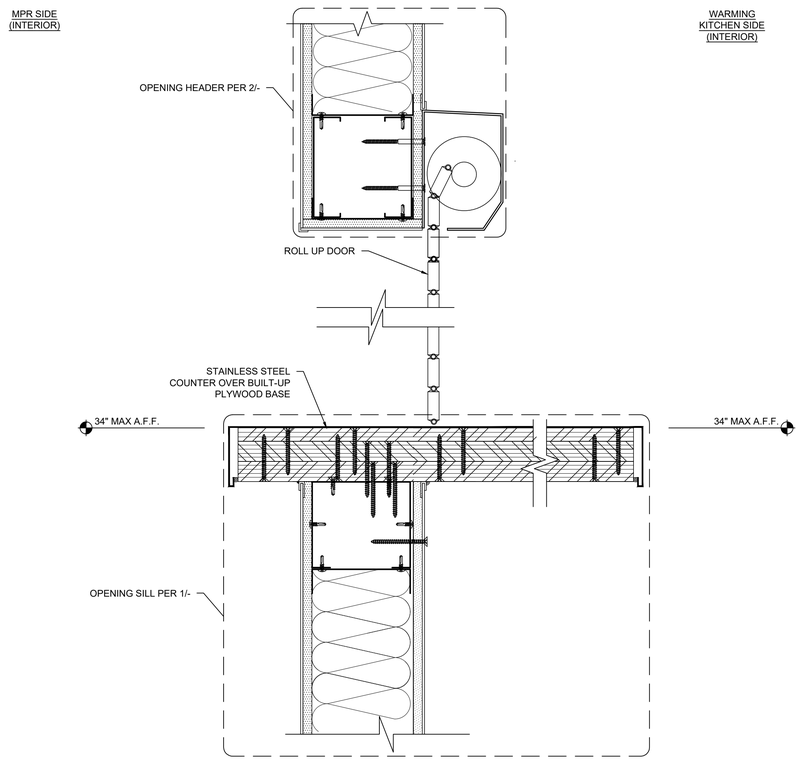
OPENING HEADER @ ROLL UP DOOR SCALE: 3" = 1'-0" 2



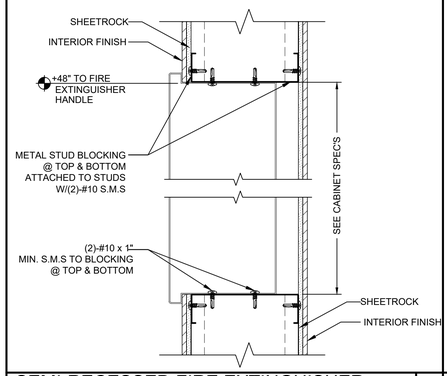
OPENING JAMB @ ROLL UP DOOR SCALE: 3" = 1'-0" 3



18 GA METAL PLATE SCALE: 1-1/2" = 1'-0" 4



ROLL UP DOOR SECTION VIEW SCALE: 3" = 1'-0" 5



SEMI-RECESSED FIRE EXTINGUISHER SCALE: 3" = 1'-0" 6

NOT USED SCALE: 3" = 1'-0" 7

NOT USED SCALE: 3" = 1'-0" 8

NOT USED SCALE: 3" = 1'-0" 9

NOT USED SCALE: 3" = 1'-0" 10

NOT USED SCALE: 3" = 1'-0" 11

NOT USED SCALE: 3" = 1'-0" 12

NOT USED 13

NOT USED 14

GENERAL NOTES

NOTES:

1. FOR METAL STUD FRAMING, SEE S9.0-S9.2.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT MARK RICHARD LEE No. C34138 Ren. 8-31-23 STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT JOHN PATRICK CONWAY No. C12631 Ren. 3-31-23 STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

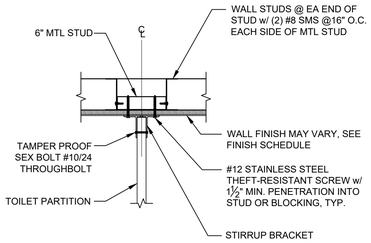
REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
ARCHITECTURAL DETAILS

SHEET NUMBER:
A5.1B

D:\XXXXXX - 2-Story 4@ - 22ft 4.6" SAVED 6/14/2022 3:58 PM PLOTTED 6/21/2022 10:48 AM BY Phyllis Ho\000-999\000-099\000-021 Santa Cruz City Schools- Gault ELEMENTARY\Arch\A5.1 - 02 - 1 Hr Ext - AS 18 - Gault ES - EXTERIOR DETAILS - Ver 18.dwg

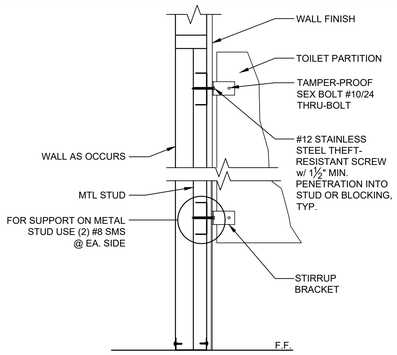


METAL STUDS
OPTION No. 1

TOILET PARTITION ANCHORAGE BLOCKING DETAILS @ WALL

SCALE: 1-1/2" = 1'-0" | 1

NOT USED | 2

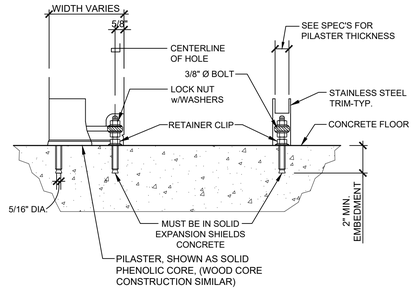


NOTE: FOR METAL STUD OPTION, SEE SHEET 17/S9.1 FOR BLOCKING.

TOILET PARTITION WALL BLOCKING

NOT TO SCALE | 3

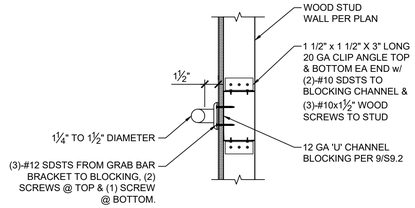
NOT USED | 4



DRILL HOLES FOR FLOOR ATTACHMENT 5/8" FROM EDGE OF PILASTER. TYPICAL FOR ALL LOCATIONS. NOTE: PLACE STAINLESS STEEL TRIM ON PILASTER, SLIDE UP BEFORE SECURING PILASTER TO FLOOR ATTACHMENT.

PARTITION TO CONCRETE FLOOR

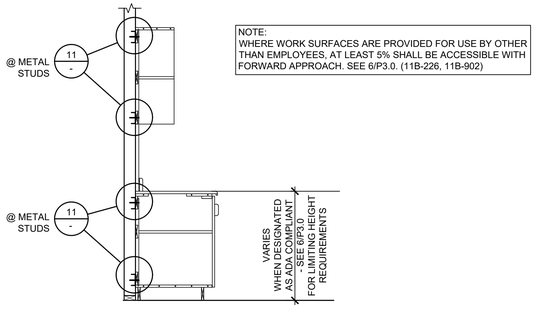
NOT TO SCALE | 5



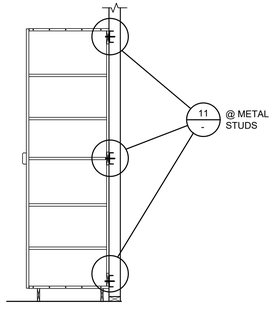
ALTERNATE GRAB BAR
BLOCKING DETAIL

GRAB BAR BLOCKING DETAIL

SCALE: 1-1/2" = 1'-0" | 6



UPPER/BASE CABINET

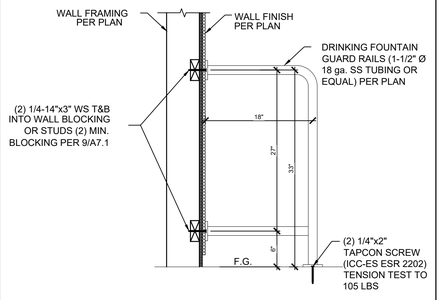


TALL CABINET

TYP. CABINET ATTACHMENT

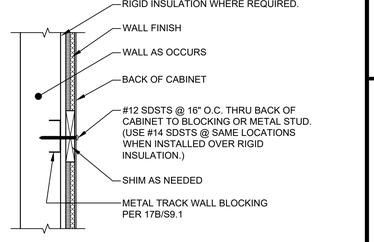
NOT TO SCALE | 8

NOT USED | 9



D.F. GUARD RAILS MOUNTED DETAIL

SCALE: 1" = 1'-0" | 10



NOTE: BLOCKING IS ONLY REQUIRED IF CABINET DOES NOT CROSS A MIN. OF (2) STUDS.

NOTE: FOR WOOD STUD OPTION, SEE 9/-.

CABINET ATTACHMENT @ METAL STUDS

SCALE: 1-1/2" = 1'-0" | 11

NOT USED | 12

NOT USED | 13

NOT USED | 14

NOT USED | 15

NOT USED | 16

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING
FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK RICHARD WEAVER
No. C-27138
REN. 11-30-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD
LICENSED ARCHITECT
PATRICK O. WALSH
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

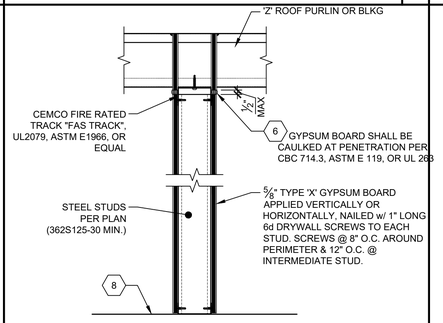
SHEET TITLE:
MISCELLANEOUS
ARCHITECTURAL DETAILS

SHEET NUMBER:
A7.2

G:\AMXXX - 3-Story.rvt - 22R +1F - 20'x55' 6/14/2021 3:58 PM - PLOTTED: 6/21/2022 9:44 AM - R:\Projects\1500-1599\1600-1699\1657-21 Santa Cruz City Schools Gault ES\PRELIM\MAIN\DWG\A7.2 - MISCELLANEOUS ARCHITECTURAL DETAILS.dwg

NOT USED 1

NOT USED 2



WALL ASSEMBLY PER
CBC TABLE 721.1(2) 13-1.1

NOT USED 3

NOT USED 4

1 4" MIN. MTL STUDS @ 24" O.C. MAX.

2 TYPICAL INTERIOR FINISH

3 TYPICAL EXTERIOR FINISH

4 ONE LAYER 5/8" TYPE-'X' GYPSUM BOARD PER C.B.C. 721.1(2) 14-1.3. (NOTE: WHERE EXTERIOR FINISH IS 7/8" PLASTER THEN REPLACE 5/8" TYPE-X GYPSUM BOARD w/ 1/2" PLYWOOD ON PLASTER SIDE OF WALL ONLY.)
ALTERNATE
2 LAYERS OF ½" GYPSUM BOARD PER C.B.C. 721.1(2) 14-1.2

5 TWO LAYERS 1/2" GYPSUM BOARD PER CBC 721.1(1) 1-7.1.
(NOTE: WHERE EXTERIOR FINISH IS 7/8" PLASTER THEN REPLACE BASE LAYER OF TYPE-X GYPSUM BOARD w/ 1/2" PLYWOOD ON PLASTER SIDE OF WALL ONLY)

6 INTUMESCENT CAULK
"FIRETEMP CI", "FIRESTOP 4100NS" or HILTI "FS-ONE MAX"

7 ROOF SYSTEM (SEE ROOF PLAN)

8 FLOOR SYSTEM OF 1HR FLOOR ASSEMBLY

9 COLUMN PER PLAN

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME

120' x 40'
2-STORY BUILDING

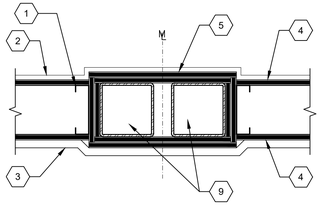
FORM®

SITE SPECIFIC PROJECT NAME

SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

NOT USED 7

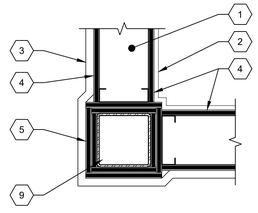
INTERIOR



EXTERIOR

NOTE: ALTERNATE FIRE PROTECTION
PER DETAIL 15/-

COLUMN WRAP @ MODLINE SCALE : 1 1/2"=1'-0" 11



NOTE: ALTERNATE FIRE PROTECTION
PER DETAIL 15/-

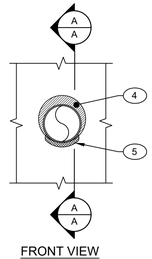
COLUMN WRAP @ CORNER SCALE : 1 1/2"=1'-0" 16

1-HOUR RATED HARDLID CEILING SCALE : 1 1/2"=1'-0" 8

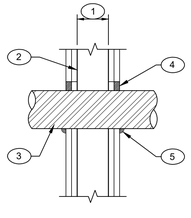
METAL PIPE THRU 1-HR OR 2-HR
GYPSUM WALL ASSEMBLY

F-RATING = 1-HR OR 2-HR
T-RATING = 0-HR
L-RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L-RATING AT 400°F = 4 CFM/SQ. FT.

NOTES:
1. MAXIMUM DIAMETER OF OPENING:
   a. 32 1/4" FOR STEEL STUD WALLS
   b. 14 1/2" FOR WOOD STUD WALLS
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 2¼"
3. PIPE MAY BE INSTALLED WITH CONTINUOUS POINT OF CONTACT.
4. PIPE MAY BE INSTALLED AT AN ANGLE NOT GREATER THAN 45° FROM PERPENDICULAR.



FRONT VIEW



SECTION A-A

UL# WL-1054
1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES) (1-HR OR 2-HR FIRE RATING) (2-HR SHOWN)
2. WOOD STUDS TO CONSIST OF NOMINAL 2"x4" LUMBER. STEEL STUDS TO BE MINIMUM 2 1/2" WIDE.
3. PENETRATING ITEM MAY BE ONE OF THE FOLLOWING:
   A. MAXIMUM 30"Ø NOMINAL STEEL PIPE (SCHEDULE 10 OR HEAVIER)
   B. MAXIMUM 30"Ø NOMINAL CAST IRON PIPE
   C. MAXIMUM 6" Ø NOMINAL COPPER PIPE (TYPE L OR HEAVIER)
   D. MAXIMUM 6" Ø NOMINAL STEEL CONDUIT
   E. MAXIMUM 4" Ø NOMINAL STEEL EMT
4. MINIMUM 5/8" DEPTH INTUMESCENT FIRE RATED SEALANT*.
5. MINIMUM 1/2" BEAD INTUMESCENT FIRE RATED SEALANT* AT POINT OF CONTACT. SEE KEYNOTE #6.

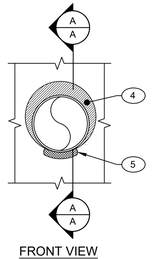
COLUMN WRAP SCALE : 1 1/2"=1'-0" 17

NOT USED 9

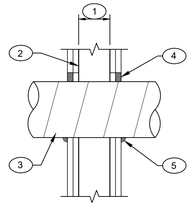
METAL DUCT (WITHOUT DAMPER)
THRU 1-HR OR 2-HR
GYPSUM WALL ASSEMBLY

F-RATING = 1-HR OR 2-HR
T-RATING = 0-HR

NOTES:
1. MAXIMUM DIAMETER OF OPENING:
   a. 21 3/8" FOR STEEL STUD WALLS
   b. 14 1/2" FOR WOOD STUD WALLS
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1½"
3. PIPE MAY BE INSTALLED WITH CONTINUOUS POINT OF CONTACT.



FRONT VIEW



SECTION A-A

UL# WL-7214
1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES) (1-HR OR 2-HR FIRE RATING) (2-HR SHOWN)
2. WOOD STUDS TO CONSIST OF NOMINAL 2"x4" LUMBER. STEEL STUDS TO BE MINIMUM 3 1/2" WIDE.
3. PENETRATING ITEM MAY BE ONE OF THE FOLLOWING:
   A. MAXIMUM 20"Ø NOMINAL SPIRAL WOUND SHEET METAL DUCT (24ga. MIN.)
   B. MAXIMUM 12"Ø NOMINAL SHEET METAL DUCT (28ga. MIN.)
4. INTUMESCENT FIRE RATED SEALANT:
   A. MINIMUM 5/8" DEPTH FOR A 1-HR FIRE RATING
   B. MINIMUM 1 1/4" DEPTH FOR A 2-HR FIRE RATING
5. MINIMUM 1/2" BEAD INTUMESCENT FIRE RATED SEALANT AT POINT OF CONTACT. SEE KEYNOTE #6.

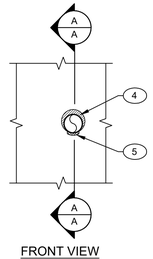
METAL PIPE THRU RATED WALL SCALE : 1 1/2"=1'-0" 18

NOT USED 10

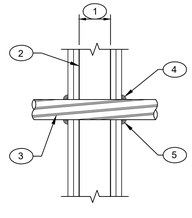
NON-METALLIC PIPE OR TUBING
THRU 1-HR OR 2-HR
GYPSUM WALL ASSEMBLY

F-RATING = 1, 2, 3 OR 4-HR
T-RATING = 1, 2, 3 OR 4-HR

NOTES:
1. MAXIMUM DIAMETER OF OPENING:
   a. 3 1/8" FOR STEEL STUD WALLS
   b. 3 1/8" FOR WOOD STUD WALLS
2. ANNULAR SPACE:
   a. CPVC PIPE: MINIMUM 1/4", MAXIMUM 1/2"
   b. PEX TUBING: MINIMUM 1/4", MAXIMUM 3/8"
   c. PVC PIPE: MINIMUM 1/4", MAXIMUM 1/2"



FRONT VIEW



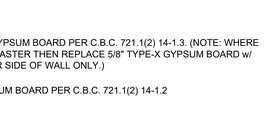
SECTION A-A

UL# WL-2126
1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES) (1, 2, 3 OR 4-HR FIRE RATING) (2-HR SHOWN)
2. WOOD STUDS TO CONSIST OF NOMINAL 2"x4" LUMBER. STEEL STUDS TO BE MINIMUM 3 5/8" WIDE.
3. PENETRATING ITEM MAY BE ONE OF THE FOLLOWING:
   A. CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE, NOMINAL 2"Ø MAX
   B. CROSSLINKED POLYETHYLENE (PEX) TUBING, NOMINAL 1 1/2"Ø MAX
   C. POLYVINYL CHLORIDE (PVC) PIPE, NOMINAL 2"Ø MAX SCHEDULE 40
4. INTUMESCENT FIRE RATED SEALANT:
   A. MINIMUM 5/8" THICKNESS FOR A 1-HR FIRE RATING
   B. MINIMUM 1" THICKNESS FOR A 2, 3, & 4-HR FIRE RATING
5. MINIMUM 1/2" BEAD INTUMESCENT FIRE RATED SEALANT AT POINT OF CONTACT. SEE KEYNOTE #6.

METAL DUCT THRU RATED WALL SCALE : 1 1/2"=1'-0" 19

KEY NOTES

ONE HOUR PER
ANSI/UL 263
UL DESIGN NO. X661

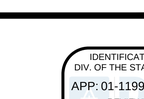


NOTES:
1. COLUMN SHALL BE FREE OF DIRT, LOOSE SCALE AND OIL. COLUMN SHALL BE PRIMED WITH 0.002 INCHES DRY FILM THICKNESS OF TWO COMPONENT EPOXY OR PHENOLIC MODIFIED ALKYD.
2. MASTIC & INTUMESCENT COATINGS: BY CARBOLINE CO., THERMO-SORB OR THERMO-SORB VOC. SPRAY OR BRUSH APPLY COATING IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AT THE MINIMUM AVERAGE DRY THICKNESS SHOWN IN THE TABLE BELOW. THE THICKNESS SHOWN DOES NOT INCLUDE PRIMER THICKNESS.

COLUMN SIZE	HSS 6x6	HSS 8x8
DRY THICKNESS FOR 1 HR PROTECTION	0.055 INCHES	0.046 INCHES
DRY TIME AT 50° F (BETWEEN COATS)	24 HRS	24 HRS
FLASH POINT	86° F	86° F
DURAMETER HARDNESS	SHORE D: 70 (CURED)	SHORE D: 70 (CURED)

1-HOUR FIRE RATED COLUMN SCALE : 1 1/2"=1'-0" 15

NONE METAL PIPE THRU RATED WALL SCALE : 1 1/2"=1'-0" 20



MANUFACTURER PROFESSIONAL OF RECORD

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

1	
2	
3	
4	

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

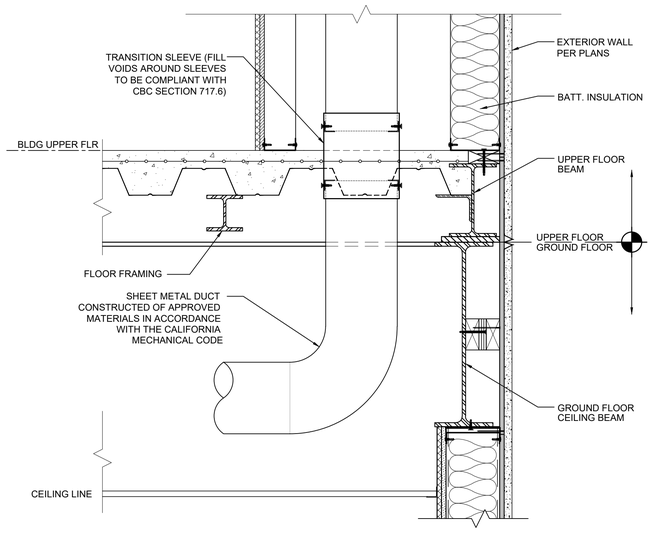
SHEET TITLE:

FIRE-RATED
CONSTRUCTION
DETAILS

SHEET NUMBER:

A8.0

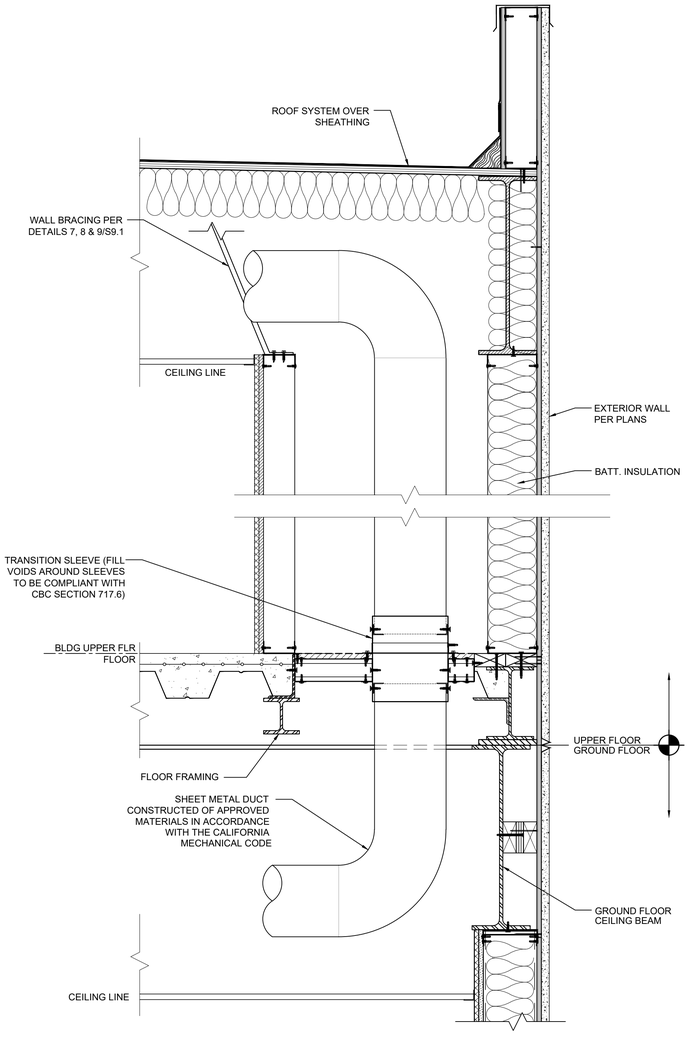
©XXXXXX - Sidney AP - 22x34 - ARCH - 6/4/2022 2:01 PM - R:\CITY\2-21\2022 Gult AM - R:\Projects\1500-1699\1600-1699\1657-21 Santa Cruz City Schools Gault ES\PRELIM\ARCH\SHT\A8 - 02 - 11Hr Fl - AS1 - Sht# E8 - FIRE RATED DETAILS.dwg



TYPICAL HVAC CHASE SECTION

SCALE: 1 1/2"=1'-0"

A



OPTIONAL HVAC CHASE SECTION

SCALE: 1 1/2"=1'-0"

B

NOT USED

C

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME

120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
WAYNE PATRICK CONNOR
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
WAYNE PATRICK CONNOR
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/22/22
PROJECT NO:	1657-21

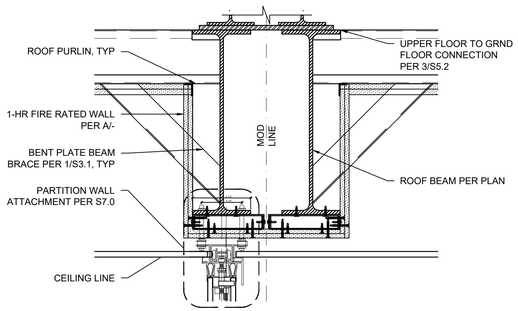
SHEET TITLE:

HVAC CHASE &
SHAFT
DETAILS

SHEET NUMBER:

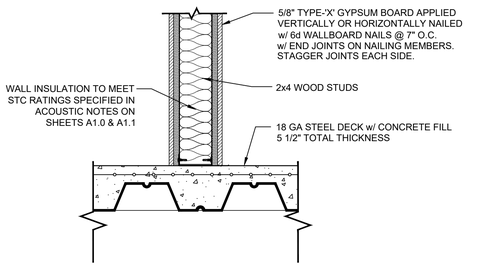
A8.2

02-XXXXXX - 2Story 44' - 22ft 44" SAVED: 6/2/2022 8:59 AM Kyra.Wolf\Desktop\1000-1999\1600-1699\01-21 Santa Cruz City Schools- Gault ES\PRELIM\ARCH\DWGS\ - 01 - 119146 - A8.2 - Gault ES - PRE RATED SHAFT DETAILS.dwg



1-HOUR FIRE WALL @ PARTITION DETAIL

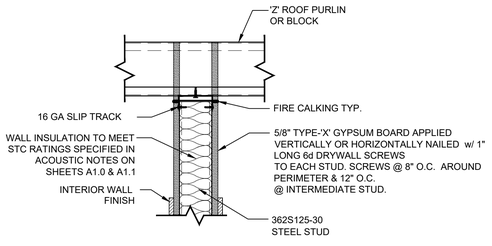
SCALE: 1 1/2"=1'-0" | 1



1-HOUR FIRE RATED PARTITION WALL

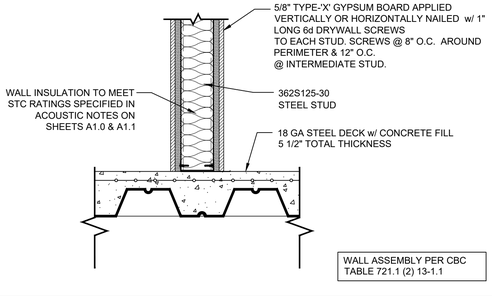
CONCRETE FLOOR

SCALE: 1 1/2"=1'-0" | 2



INTERIOR WALL CONNECTION (STEEL STUDS)

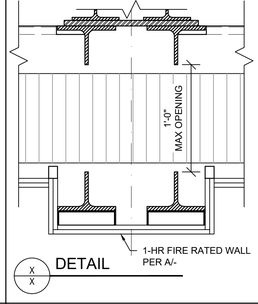
SCALE: 1 1/2"=1'-0" | 3

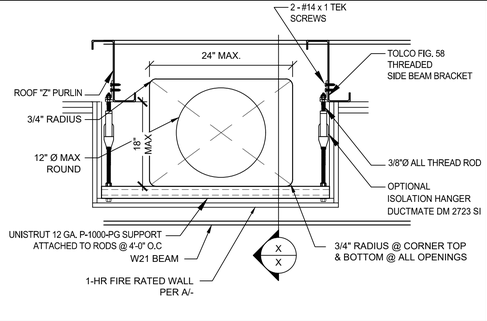


1-HOUR FIRE RATED PARTITION WALL

CONCRETE FLOOR STEEL STUDS

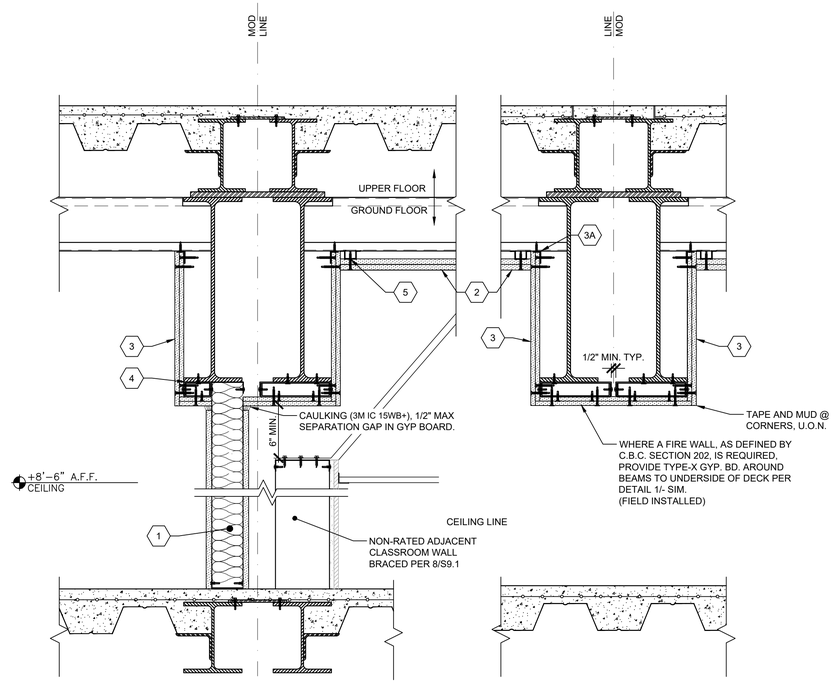
SCALE: 1 1/2"=1'-0" | 4





DUCTING @ 1-HOUR FIRE RATED

SCALE: 1 1/2"=1'-0" | 6



1-HOUR FIRE WALL DETAIL

SCALE: 1/4"=1'-0" | A

WALLS AND INTERIOR PARTITIONS, STEEL STUDS

GA FILE NO. WP 1072	GENERIC	1-HOUR FIRE

GYPSUM WALLBOARD, STEEL STUDS

ONE LAYER 5/8" TYPE-X GYPSUM WALLBOARD OR GYPSUM VENEER BASE APPLIED PARALLEL OR AT RIGHT ANGLES TO EACH SIDE OF MIN. 3-5/8" STEEL STUDS @ 24" O.C. WITH 1" TYPE S DRYWALL SCREWS @ 8" O.C. @ VERTICAL JOINTS AND 12" O.C. AT FLOOR AND CEILING RUNNERS AND INTERMEDIATE STUDS.

JOINTS STAGGERED 24" ON EACH SIDE AND ON OPPOSITE SIDES.

THICKNESS:	4 7/8"
APPROX. WEIGHT:	6 PSF
FIRE TEST:	SEE WP 1350 (FM WP-45, 6-17-69; OSU T-1770, 8-61; ULC 79T484, 79T500, 79T497, 8-12-81, ULC DESIGN W415)

BEAMS, GIRDERS, AND TRUSSES, NONCOMBUSTIBLE

GA FILE NO. BM 1137	PROPRIETARY†	1 HOUR FIRE

STEEL STUDS, GYPSUM WALLBOARD

BASE LAYER 1/2" PROPRIETARY TYPE-X GYPSUM WALLBOARD APPLIED TO BEAM CAGE WITH 1" TYPE S DRYWALL SCREWS 12" O.C. FACE LAYER 1/2" PROPRIETARY TYPE-X GYPSUM WALLBOARD APPLIED TO BEAM CAGE WITH 1 5/8" TYPE S DRYWALL SCREWS 12" O.C. JOINTS OFFSET FROM BASE LAYER JOINTS.

BEAM CAGE FABRICATED FROM NO. 24 GAGE 7/8" x 1 3/8" STEEL ANGLES SCREW ATTACHED TO STEEL JOISTS AT BEAM TOP FLANGE AND NO. 25 GAGE 2 1/2" STEEL RUNNERS HOOKED OVER BEAM LOWER FLANGE AND SUPPORTING 1 5/8" STEEL STUDS 24" O.C. MINIMUM BEAM SIZE W8X15. **(ONE HOUR UNRESTRAINED BEAM.)**

PROPRIETARY GYPSUM BOARD

AMERICAN GYPSUM COMPANY	1/2" FIREBLOC TYPE C
CERTAINTEED GYPSUM, INC.	1/2" PROROC™ TYPE C GYPSUM PANELS
G-P GYPSUM	1/2" TOUGHROCK® FIREGUARD® C
LAFARGE NORTH AMERICA INC.	1/2" FIRECHECK® TYPE C
NATIONAL GYPSUM COMPANY	1/2" GOLD BOND® BRAND FIRE-SHIELD C™ GYPSUM WALLBOARD
PABCO GYPSUM	1/2" FLAME CURB® SUPER 'C'
TEMPLE-INLAND FOREST PRODUCTS CORPORATION	1/2" TG-C
UNITED STATES GYPSUM COMPANY	1/2" SHEETROCK® BRAND GYPSUM PANELS, FIRECODE® C CORE

FIRE TEST: UL R1319-133, 7-16-75; BASED ON UL R 3660-7, -8, 11-12-87; UL DESIGN L524

†CONTACT THE MANUFACTURER FOR MORE DETAILED INFORMATION ON PROPRIETARY PRODUCTS.

KEY NOTES

1. WALL ASSEMBLY PER GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUAL GA FILE NO. WP 3514 PER A/- W/ R-13 BATT INSULATION* @ WOOD FRAMED WALLS & GA FILE NO. WP1072 PER A/- W/ R-13 BATT INSULATION* @ METAL STUD FRAMED WALLS.

   * INSULATION REQUIRED TO MEET MIN STC RATINGS AS SPECIFIED IN ACOUSTIC NOTES ON SHEETS A1.0 & A1.1

2. CEILING ASSEMBLY PER GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUAL GA FILE NO. FC 4490 BASE LAYER 5/8" TYPE-X GYPSUM WALLBOARD APPLIED AT RIGHT ANGLES TO CHANNEL SHAPED STEEL JOISTS 24" O.C. w/ 1 1/4" TYPE S DRYWALL SCREWS 24" O.C. FACE LAYER 5/8" TYPE-X GYPSUM WALLBOARD OR GYPSUM VENEER BASE APPLIED AT RIGHT ANGLES TO JOISTS w/ 1 7/8" TYPE S DRYWALL SCREWS 12" O.C. AT JOINTS AND INTERMEDIATE JOISTS AND 1 1/2" TYPE G DRYWALL SCREWS 12" O.C. PLACED 2" BACK ON EITHER SIDE OF END JOINTS. JOINTS OFFSET 24" FROM BASE LAYER JOINTS. STEEL JOISTS SUPPORTING 1/2" WOOD STRUCTURAL PANELS APPLIED AT RIGHT ANGLES TO JOISTS WITH SCREWS.

3. BEAM ASSEMBLY PER GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUAL GA FILE NO. BM 1137 BASE LAYER 1/2" PROPRIETARY TYPE-X GYPSUM WALLBOARD APPLIED TO BEAM CAGE w/ 1" TYPE S DRYWALL SCREWS 12" O.C. FACE LAYER 1/2" PROPRIETARY TYPE-X GYPSUM WALLBOARD APPLIED TO BEAM CAGE w/ 1 5/8" TYPE S DRYWALL SCREWS 12" O.C. JOINTS OFFSET FROM BASE LAYER JOINTS.

3A. NO. 20 GAUGE 7/8" x 1 3/8" STEEL ANGLES SCREW ATTACHED TO PURLINS. 2" WELD OR (2) #10 x 1-1/2" SMS @ EA. PURLIN

4. 16 GA SLIP TRACK REFER TO SHEETS S8.1 AND S9.1 FOR ATTACHMENT. 1/2" VERTICAL GAP REQUIRED.

5. HAT TRACK @ 24" O.C., 2" WELD OR (2) #10 x 1-1/2" SMS @ EA. PURLIN

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME

120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT MARK RICHARD KADING C-28138 REN. 8-31-23 STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT JOHN PATRICK CONNOR No. C12631 Ren. 3-31-23 STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

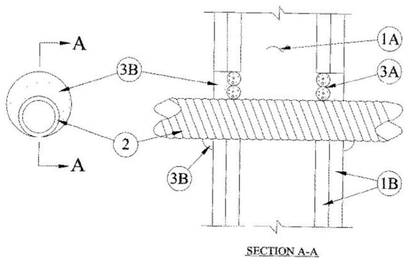
SHEET TITLE:

FIRE-RATED CONSTRUCTION DETAILS

SHEET NUMBER:

A8.3

©XXXXX - J:\Jobs All - ZIP All - SAVED 6/2/2022 10:52 AM - M:\Projects\100-999\100-999\100-2\ Santa Cruz City Schools- Gault ELEMENTARY\WORK\28 - 02 - 119143 - A8.3 - Gault ES - FIRE RATED DETAILS.dwg



SECTION A-A

1-1/2" OR SMALLER STEEL FLEXIBLE METAL CONDUIT

1. **Wall Assembly —** The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs —** Wall framing shall consist of either wood or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 3-1/2 in. wide and spaced max 24 in. OC.
   B. **Gypsum Board* —** Min 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers and orientation shall be as specified in the individual U300 or U400 Wall and Partition Design. Max diam of opening is 3 in.
The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

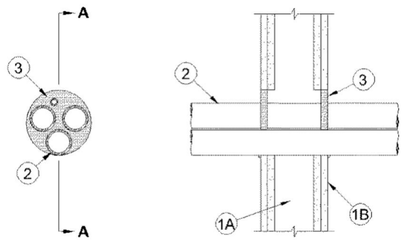
1A. **Metallic Sleeve —** (Optional) — Cylindrical sleeve fabricated from min No. 26 gauge galv sheet steel and having a min 1 in. overlap along the longitudinal seam. Ends of sleeve to be flush with or extend a max 1 in. beyond each surface of wall.

2. **Through-Penetrant —** One **Flexible Metal Conduit+** to be installed either eccentrically or concentrically within the firestop system. The annular space shall be min 0 in. (point contact) to max 1-1/8 in. Conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of conduit may be used:
   A. **Steel Flexible Metal Conduit —** Nom 1-1/2 in. diam (or smaller) steel flexible metal conduit. **When steel flexible metal conduit is used, the hourly T Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.** See **Flexible Metal Conduit** (DXUZ) category in the Electrical Construction Materials Directory for names of manufacturers
   B. **Aluminum Flexible Metal Conduit —** Nom 1-1/2 in. diam (or smaller) aluminum flexible metal conduit. **When aluminum flexible metal conduit is used, the hourly T Rating of the firestop system is 0 and 1/4 hr when installed in 1 and 2 hr walls, respectively.** See **Flexible Metal Conduit** (DXUZ) category in the Electrical Construction Materials Directory for names of manufacturers.

3. **Firestop System —** The firestop system shall consist of the following:
   A. **Packing Material —** In 2 hr rated wall assemblies, foam backer rod firmly packed into opening as a permanent form. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.
   B. **Fill, Void or Cavity Materials* — Caulk —** Min 1/2 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At point contact location between wall and conduit, a min 1/4 in. diam bead of fill material shall be applied to the wall/conduit interface on both surfaces of wall.
RECTORSEAL — Biostop 500+ Caulk

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

UL SYSTEM NO. W-L-1178 THROUGH-PENETRATION | 1 | 1A



Section A-A

3" OR SMALLER STEEL OR CAST IRON PIPE OR CONDUIT AND 2" OR SMALLER COPPER PIPE

1. **Wall Assembly —** The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide spaced max 24 in. (610 mm) OC.
   B. **Gypsum Board*- —** The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 8 in. (203 mm).

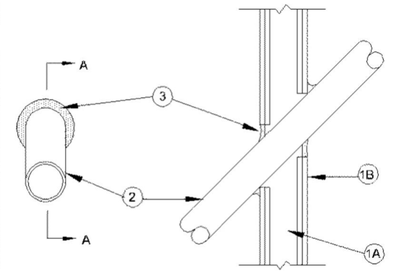
The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed. The hourly T Rating is 0 and 1/4 Hr for 1 and 2 Hr fire rated assemblies, respectively.

2. **Through-Penetrants —** One or more metallic pipes, conduits, tubes or flexible metal pipes installed concentrically or eccentrically within opening. Annular space between penetrants and periphery of opening to be min 0 in. (0 mm, point contact) to max 2 in. (51 mm). Space between penetrants to be min 1/4 in. (6 mm) to max 2 in. (51 mm). Penetrants to be rigidly supported on both sides of wall. The following types and sizes of penetrants may be used:
   A. **Steel Pipe —** Nom 3 in. (76 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.
   B. **Iron Pipe —** Nom 3 in. (76 mm) diam (or smaller) cast or ductile iron pipe.
   C. **Conduit —** Nom 3 in. (76 mm) diam (or smaller) steel conduit or steel electrical metallic tubing.
   D. **Copper Tubing —** Nom 2 in. (51 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. **Copper Pipe —** Nom 2 in. (51 mm) diam (or smaller) Regular (or heavier) copper pipe.
   F. **Through Penetrating Product*-Flexible Metal Piping —** The following types of steel flexible metal gas piping may be used:
      1.) Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly. **OMEGA FLEX INC**
      2.) Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly. **GASTITE, DIV OF TITEFLEX**
      3.) Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly. **WARD MFG L L C**

3. **Fill, Void or Cavity Material* - Caulk or Sealant —** Min 5/8 in. (16 mm) thickness of caulk applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall.
3M COMPANY — IC 15WB+, CP 25WB+ caulk or FB-3000 WT sealant

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

UL SYSTEM NO. W-L-1287 THROUGH-PENETRATION | 2 | 2A



Section A-A

8" OR SMALLER STEEL OR CAST IRON PIPE AND 4" OR SMALLER CONDUIT OR COPPER PIPE

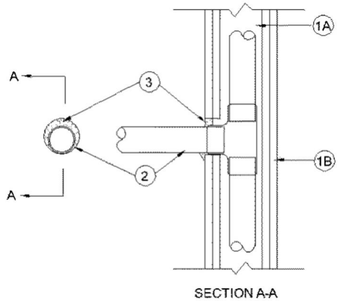
1. **Wall Assembly —** The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide spaced max 24 in. (610 mm) OC.
   B. **Gypsum Board* —** The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 12 in. (305 mm). **The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.**

2. **Through Penetrants —** One metallic pipe, conduit or tubing installed concentrically or eccentrically within opening. Annular space between penetrant and periphery of opening to be min 0 in. (0 mm point contact) to max 3-1/2 in. (89 mm). The penetrant may be installed at an angle not greater than 45 degrees from perpendicular. Penetrant to be rigidly supported on both sides of wall. The following types and sizes of penetrants may be used:
   A. **Steel Pipe —** Nom 8 in. (203 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. **Iron Pipe —** Nom 8 in. (203 mm) diam (or smaller) cast or ductile iron pipe.
   C. **Conduit —** Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or nom 6 in. (152 mm) rigid steel conduit.
   D. **Copper Tubing —** Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. **Copper Pipe —** Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. **Fill, Void or Cavity Material* - Caulk or Sealant —** Min 5/8 in. (16 mm) thickness of caulk applied within annulus, flush with both surfaces of wall. Min 1/2 in. (13 mm) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall.
3M COMPANY — IC 15WB+, CP 25WB+ caulk or FB-3000 WT sealant

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

UL SYSTEM NO. W-L-1340 THROUGH-PENETRATION | 3 | 3A



SECTION A-A

2" OR SMALLER STEEL, CAST IRON PIPE, CONDUIT, OR COPPER PIPE

1. **Wall Assembly —** The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) (or larger) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
   B. **Gypsum Board* —** Thickness, type, number of layers and fasteners as required in the individual Wall and Partition Design. Max diam of opening is 3-1/2 in. (89 mm).
   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Metallic Pipe —** Metallic pipe, tube or conduit installed within the stud cavity and connected to metallic tee for use in closed (process or supply) or vented (drain, waste or vent) piping systems. Pipe, tube or conduit penetrating wall assembly on one side of wall to be installed either concentrically or eccentrically with the annular space between the penetrant and the periphery of opening of min 0 in. (0 mm, point contact) to max 1 in. (25 mm). The following types of metallic pipes, tubes, conduits and tees may be used:
   A. **Steel Pipe —** Nom 2 in. (51 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. **Iron Pipe —** Nom 2 in. (51 mm) diam (or smaller) cast or ductile iron pipe.
   C. **Copper Tubing —** Nom 2 in. (51 mm) diam (or smaller) Type L (or heavier) copper tubing.
   D. **Copper Pipe —** Nom 2 in. (51 mm) diam (or smaller) Regular (or heavier) copper pipe.
   E. **Conduit —** Nom 2 in. (51 mm) diam (or smaller) rigid steel conduit or electrical metallic steel tubing (EMT).

2A. **Conduit Body* —** (Not Shown) - When a steel conduit or EMT is used, nom 2 in. size (or smaller) steel conduit body with steel fittings as an alternate to the metallic tee. Refer to Conduit Fittings (DWTT) category in the UL Electrical Construction Directory.

3. **Fill, Void or Cavity Material* — Caulk —** Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with surface of wall. At the point contact location between duct and wallboard, a min 1/2 in. (13 mm) diam bead of sealant shall be applied at the wallboard/duct interface on both surfaces of wall assembly.
3M COMPANY — IC 15WB+ caulk, CP 25WB+ caulk or FB-3000 WT Sealant

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

UL SYSTEM NO. W-L-1353 THROUGH-PENETRATION | 4 | 4A

XXXXXX - Sidney.tif - (29 x 41 - 8/1/00) - 8/8/2022 11:21 AM - PLOTTED 8/1/2022 9:50 AM - M:\Projects\1656-1699\1656-1699\1657-21 Santa Cruz City Schools Gault ES\PRELIM\WARP\DWG\01-SD 119149 - A8.4 - SHEET 8 - FIRE RATED DETAILS.dwg

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK BOARD
No. C-12631
Ren. 3-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
BRENDAN PATRICK O'DONNELL
No. C-12631
Ren. 3-31-23
STATE OF CALIFORNIA

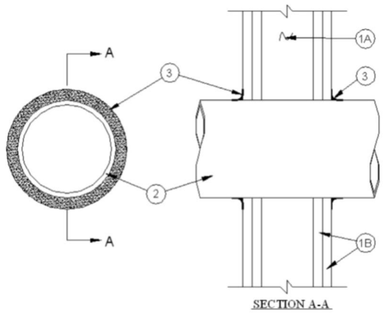
THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
FIRE-RATED
CONSTRUCTION
DETAILS

SHEET NUMBER:
A8.4



12" OR SMALLER STEEL OR CAST IRON PIPE AND 6" OR SMALLER CONDUIT OR COPPER PIPE

1. **Wall Assembly —** The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-5/8 in. (92 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board* —** The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 12-3/4 in. (324 mm).

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

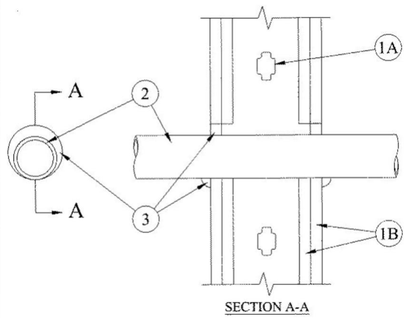
2. **Through-Penetrant —** One metallic pipe, conduit or tubing installed within the firestop system. The through penetrant to be installed with continuous point contact. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. **Steel Pipe —** Nom 12 in. (305 mm) (diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. **Iron Pipe —** Nom 12 in. (305 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe or Class 50 (or heavier) ductile iron pressure pipe.
C. **Conduit —** Nom 6 in. (152 mm) diam (or smaller) galv steel conduit or nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.
D. **Copper Tubing —** Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
E. **Copper Pipe —** Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. **Fill, Void or Cavity Material*- Caulk —** Bead of fill material lapping min 1 in. (25 mm) onto gypsum board and min 1/2 in. (13 mm) onto penetrant around outer circumference of through penetrant on both surfaces of wall assembly.
3M COMPANY 3M FIRE PROTECTION PRODUCTS — CP 25WB+ Caulk, IC 15WB+ Caulk, FB-3000 WT Sealant

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

UL SYSTEM NO. W-L-1450 THROUGH-PENETRATION | 1 | 1A



2" OR SMALLER CPVC OR ABS

1. **Wall Assembly —** The 1 and 2 hr fire rated gypsum board/stud wall assemblies shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board* —** Thickness, type, number of layers and fasteners as required in the individual Wall and Partition Design. Diam of opening shall be 1 in. (25 mm) larger than nom pipe diam.**The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.**

2. **Through Penetrants —** One nonmetallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system The annular space between the pipe or conduit and periphery of opening shall be min of 0 in. (0 mm, point contact) to max 5/8 in. (16 mm) Pipe or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipes or conduits may be used:

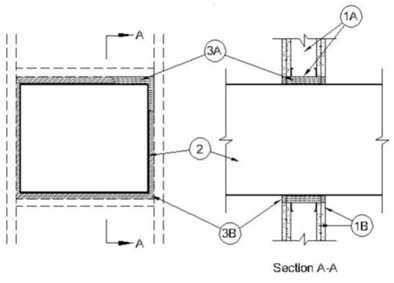
A. **Polyvinyl Chloride (PVC) Pipe —** Nom 2 in. (51 mm) diam (or smaller). Schedule 40 solid core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems
B. **Chlorinated Polyvinyl Chloride (CPVC) Pipe —** Nom 2 in. (51 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
C. **Rigid Nonmetallic Conduit+ —** Nom 2 in. (51 mm) diam (or smaller). Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70).
D. **Acrylonitrile Butadiene Styrene (ABS) Pipe —** Nom 2 in. (51 mm) diam (or smaller). Schedule 40 solid core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

The hourly T Rating of the firestop system is 0 Hr when pipes are used in vented (drain, waste or vent) piping systems. The hourly T Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed when pipes are used in closed (process or supply) piping systems.

3. **Fill, Void or Cavity Materials* - Caulk or Sealant —** Min thickness of 5/8 in. (16 mm) of caulked applied within annulus between pipe or conduit and periphery of the opening, flush with both surfaces of wall assembly. At the point contact location between pipe or conduit and gypsum board, a min 1/2 in. (13 mm) diam bead of caulk or putty shall be applied at the pipe or conduit/gypsum board interface on both surfaces of wall assembly.
3M COMPANY — FireDam 150+, CP 25WB+, IC 15WB+ caulk or FB-3000 WT sealant. (Note: CP 25WB+ and FireDam 150+ not suitable for use with CPVC pipes.)

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

UL SYSTEM NO. W-L-2264 THROUGH-PENETRATION | 2 | 2A



24" x 24" OR SMALLER STEEL DUCT. 22 GA MINIMUM

1. **Wall Assembly —** The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing shall consist of steel channel studs. Steel studs to be min 6 in. (152 mm) wide and spaced max 24 in. (60 mm) OC. Additional framing members shall be used to completely frame around opening.
B. **Gypsum Board* —** Min 5/8 in. (16 mm) thick, 4 ft (121 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers and orientation shall be as specified in the individual U400 or V400 Wall and Partition Design. Max area of opening is 676 sq in. (4362 sq cm) with a max dimension of 26 in.
The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Steel Duct —** Max 24 by 24 in. (610 by 610 mm) No. 22 gauge (or heavier) steel duct to be installed either concentrically or eccentrically within the opening. The annular space shall be min 3/4 in. (19 mm) to max 1-1/2 in (38 mm). Duct to be rigidly supported on both sides of wall assembly.

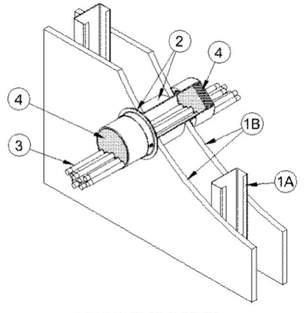
3. **Firestop System —** The firestop system shall consist of the following:

A. **Packing Material —** Min 6 in. (152 mm) or 7-1/4 in. (184 mm) thickness of min 4 pcf (64 kg/m)
mineral wool batt insulation for 1 or 2 hr rated walls, respectively. Mineral wool to be firmly packed into opening as a permanent form and recessed from both surfaces of wall to accommodate the required thickness of fill material.
A1. **Forming Material* —** As an alternate to the packing material in Item 3A, nom 4 in. (102 mm) wide strips of min 1/2 in (13 mm) thick compressible mat to be stacked to a thickness greater than the width of the annular space and compression-fitted, edge-first, to fill the annular space to a min 6 in. (152 mm) depth for 1 hr rated walls and min 7-1/4 in. depth for 2 hr rated walls. Forming material to be recessed from both surfaces of wall as necessary to accommodate the required thickness of fill material.
3M COMPANY 3M FIRE PROTECTION PRODUCTS — Fire Barrier Packing Material

B. **Fill Void or Cavity Material*— Caulk —** Min 5/8 in. (16 mm) thickness of fill material applied within annular space, flush with both sides of wall.
3M COMPANY 3M FIRE PROTECTION PRODUCTS — FB-3000 WT, IC 15WB+ or CP 25WB+

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

UL SYSTEM NO. W-L-7191 THROUGH-PENETRATION | 3 | 3A



LOW VOLTAGE SLEEVES

1. **Wall Assembly —** The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
B. **Gypsum Board* —** 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 4-1/2 in. (114 mm). **The hourly F rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.**

2. **Firestop Device* —** Steel sleeve device centered within opening and installed in accordance with the accompanying installation instructions. Steel sleeve device secured in place by means of steel escutcheon plates installed with gasketing material supplied with product. Steel escutcheon plates installed on both sides of wall and secured to device by means of steel screws provided with device. Steel sleeve device provided in nom 1, 2 and 4 in. (25, 51 and 102 mm) sizes. The min and max opening sizes for each sleeve device are shown in the table below:

Device Size	Min Opening Size	Max Opening Size
1 in. (25 mm)	1.12 in. (28 mm)	1.25 in. (32 mm)
2 in. (51 mm)	2.38 in. (60 mm)	2.50 in. (64 mm)
4 in. (102 mm)	4.50 in. (114 mm)	4.50 in. (114 mm)

SPECIFIED TECHNOLOGIES INC — FS100, FS200, FS201, FS400 and FS401 SpecSeal Ready-Sleeves
3. **Cables —** Aggregate cross-sectional area of cables in steel sleeve to be max 48 percent of the aggregate crosssectional area of the sleeve. Cables to be rigidly supported on both sides of wall assembly. Any combination of the following types and sizes of copper conductor cable may be used:

A. Max 200 pair No. AWG (or smaller) copper conductor cable with polyvinyl chloride (PVC) jacketing and insulation.
B. Max 3/C No. 2/0 AWG (or smaller) aluminum or copper conductor service entrance cable with PVC insulation and jacket.
C. Max 3/C No. 8 AWG (or smaller) nonmetallic sheathed (Romex) cable with copper conductors, PVC insulation and jacket.
D. Max 7/C No. 2/0 AWG (or smaller) multiconductor power and control cables with XLPE or PVC insulation and XLPE or PVC jacket.
E. Max RG/U (or smaller) coaxial cable with fluorinated ethylene insulation and jacketing.
F. Max 62.5/48 fiber optic cable with PVC insulation and jacketing.
G. Max 4 pair No. 24 AWG (or smaller) copper conductor data cable with PVC insulation and jacket.
H. Max 4/C No. 2/0 aluminum or copper conductor aluminum or steel Metal-Clad# or Armored-Clad# cable.

4. **Fill, Void or Cavity Material* - Putty —** Fill material supplied with firestop device (Item 2) applied to 1 in. (25 mm) thickness flush with each end of steel sleeve device. At point contact location, min 3/8 in. (9 mm) diam bead of fill material applied at grouped cable/steel sleeve interface on each side of wall. **SPECIFIED TECHNOLOGIES INC** — SpecSeal Putty

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

UL SYSTEM NO. W-L-3275 THROUGH-PENETRATION | 4 | 4A

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING
FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

MANUFACTURER PROFESSIONAL OF RECORD

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

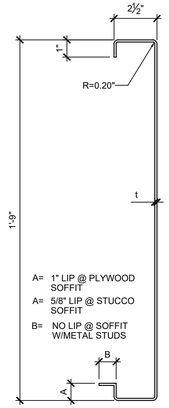
REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
FIRE-RATED CONSTRUCTION DETAILS

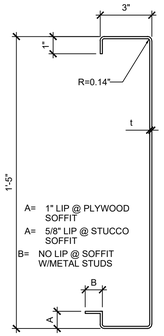
SHEET NUMBER:
A8.5

03-XXXXX - Gaul.rvt - [2F] + AP - [AXIS] - 6/6/2022 11:21 AM - R:\Projects\03-19989\03-19989\Shi's Santa Cruz City Schools Gault ES\PRELIM\WAY\DWG\03-19141 -A8.4 - SHEET5 - FIRE RATED DETAILS.dwg



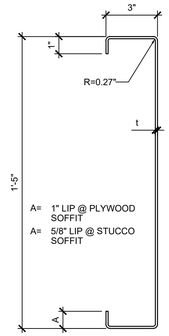
21"x2-1/2"x12GA
GROUND FLOOR OVERHANG
FASCIA

ASTM = A1011 SS
GRADE = 45
Fy = 45 ksi
A = 2.72 IN^2
Sx = 13.29 IN^3
Ix = 141.39 IN^4
t = 0.0966 IN MIN
(0.1017 IN DESIGN)



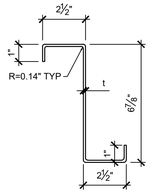
17"x3"x14GA
C CHANNEL - UPPER
STAIR LANDING &
SKYWALK SOFFIT BEAM

ASTM = A1011 SS
GRADE = 45
Fy = 45 ksi
A = 1.71 IN^2
Sx = 7.47 IN^3
Ix = 64.37 IN^4
t = 0.0677 IN MIN
(0.0713 IN DESIGN)



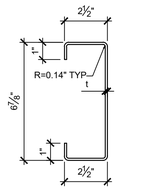
17"x3"x10GA
C CHANNEL - UPPER
STAIR LANDING SOFFIT
BEAM

ASTM = A1011 SS
GRADE = 50
Fy = 50 ksi
A = 3.16 IN^2
Sx = 13.44 IN^3
Ix = 115.90 IN^4
t = 0.1278 IN MIN
(0.1345 IN DESIGN)



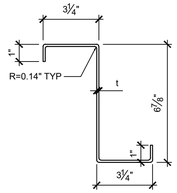
6-7/8"x2-1/2"x14GA
UPPER FLOOR
ROOF PURLIN

ASTM = A1011 SS
GRADE = 45
Fy = 45 KSI
A = 0.95 IN^2
Sx = 1.98 IN^3
Ix = 6.81 IN^4
t = 0.0677 IN MIN
(0.0713 IN DESIGN)



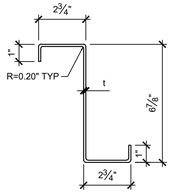
6-7/8"x2-1/2"x14GA
UPPER FLOOR
ALTERNATE ROOF PURLIN

ASTM = A1011 SS
GRADE = 45
Fy = 45 KSI
A = 0.95 IN^2
Sx = 1.98 IN^3
Ix = 6.81 IN^4
t = 0.0677 IN MIN
(0.0713 IN DESIGN)



6-7/8"x3-1/4"x14GA
GROUND FLOOR
ROOF PURLIN

ASTM = A1011 SS
GRADE = 45
Fy = 45 KSI
A = 1.05 IN^2
Sx = 2.34 IN^3
Ix = 8.05 IN^4
t = 0.0677 IN MIN
(0.0713 IN DESIGN)



6-7/8"x2-3/4"x12GA
GROUND FLOOR
ROOF PURLIN

ASTM = A1011 SS
GRADE = 45
Fy = 45 KSI
A = 1.38 IN^2
Sx = 2.90 IN^3
Ix = 9.95 IN^4
t = 0.0966 IN MIN
(0.1017 IN DESIGN)

UPPER FLOOR ROOF PURLINS

GROUND FLOOR ROOF PURLINS

NOTE:
SPRINKLER PIPE BRACING SHALL ONLY BE INSTALLED PARALLEL TO ROOF PURLIN FRAMING MEMBERS.

STEEL MEMBER PROPERTIES

NOT TO SCALE

1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME

120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK PATRICK DEVANEY
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
MARK PATRICK DEVANEY
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
JIMMY D. FINCH
No. S3387
STRUCTURAL
STATE OF CALIFORNIA
RST#21137

7/22/2022

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

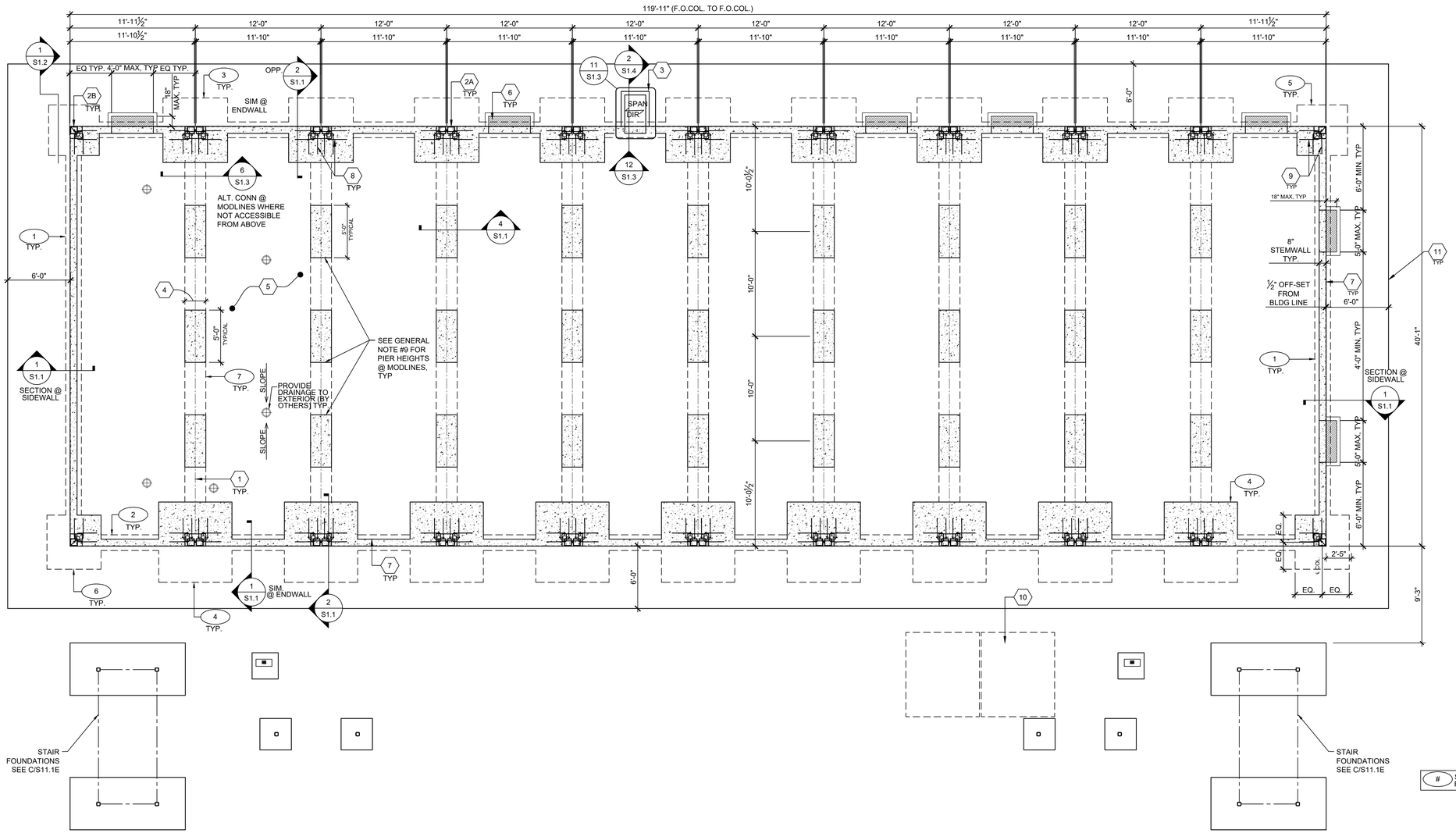
SHEET TITLE:

LIGHT GAUGE STEEL
MEMBER
PROPERTIES

SHEET NUMBER:

S0.0

S:\XXXX's Drive\## JOB\ 01\R25 8/16/2022 1:13 PM JDOTTED 10/21/2021 11:48 AM M:\Projects\000-099\000-099\000-099\021 Santa Cruz City Schools Gault ELEMENTARY\MANUFACTURER\Gault-S0 - 120x40 - S2-1 STEEL MEMBER PROP.dwg



NOTE: FOUNDATION DRAINAGE NOT SHOWN. REFER TO NOTE #8. FOUNDATION DRAINAGE BY OTHERS.

FOUNDATION PLAN

SCALE 3/16"=1'-0" | A

KEY NOTES

1. MODULE LINE
2A. EMBEDDED ANCHOR PER DETAIL 3/S1.1
2B. EMBEDDED ANCHOR PER DETAIL 2/S1.2
3. UNDERFLOOR ACCESS OPENING PER 2/S1.4 & 11&12/S1.3, LOCATION MAY VARY
4. INTERIOR CONTINUOUS FOOTING
5. NON-STRUCTURAL 2" OPTIONAL SLURRY BY SITE CONTRACTOR
6. UNDERFLOOR VENTILATION. LOCATION MAY VARY, REFER TO DETAILS 11 & 12/S1.3, & 5&9/S1.4 (ALL UNDERFLOOR MATERIALS ARE INORGANIC)
7. BUILDING LINE
8. 2 - #5 "U" BARS EA. DIRECTION EA. HSS ANCHOR (4 PER HSS ANCHOR, 8 TOTAL) PER DETAIL 6/S1.1 TYPICAL AT FRONT & REAR MODLINE FOOTING
9. 2- #5 "U" BARS EA. DIRECTION (4 TOTAL) @ HSS ANCHOR PER DETAIL 4/S1.2, TYP AT FRONT & REAR CORNER FOOTING.
10. ELEVATOR FOUNDATION (NOT PART OF THIS APROVAL)
11. 6'-0" OVEREXCAVATION FROM BUILDING TO BE BACKFILLED AFTER BUILDING INSTALLATION AND ALL UTILITIES RAN.

NOTES

1. CONCRETE MIXTURES:
   - A. ULTIMATE 28-DAY CONCRETE COMPRESSIVE STRENTH (f'c) SHALL BE PER SHEET N1.0A.
   - B. PROPORTIONING OF CONCRETE MIXTURES SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION 26.4.3.
   - C. DOCUMENTATION OF CONCRETE MIXTURE CHARACTERISITCS SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION 26.4.4.
   - D. CEMENT SHALL BE CERTIFIED PER TITLE 24, PART 2, SECTION 1910A.1.
   - E. SEE SHEET N1.0 FOR ADDITIONAL CONCRETE NOTES.
2. BUILDING MAY BE SET ON CONCRETE FOUNDATIONS THAT HAVE REACHED A MINIMUM CONCRETE COMPRESSIVE STRENGTH OF 2,500 PSI. PRIOR TO THE SETTING OF THE MODULAR BUILDING ON CONCRETE FOUNDATIONS THAT HAVE NOT YET CURED 28 DAYS POST PLACEMENT OF FOUNDATION CONCRETE, THE FOUNDATION CONTRACTOR SHALL:
   - A. HAVE THE PROJECT TESTING LAB PERFORM CONCRETE CYLINDER COMPRESSION TESTS OF THE FOUNDATION CONCRETE USED AT THE SITE.
   - B. FURNISH THE PROJECT IOR AND REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE WITH CONCRETE TEST REPORTS VERIFYING THAT THE FOUNDATION CONCRETE HAS REACHED THE MINIMUM STRENGTH AS SPECIFIED ABOVE, AND
   - C. NOTIFY THE PROJECT IOR AND REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE OF THEIR INTENT TO SET THE MODULAR BUILDING PRIOR TO 28 DAYS POST PLACEMENT OF FOUNDATION CONCRETE.
3. REINFORCING STEEL SHALL BE 60,000 PSI MINIMUM, PER ASTM A615. LAP SPLICE PER SCHEDULE 20/S1.3
   - A. THE REINFORCING BARS MUST BE TESTED PER TITLE 24, PART 2, SECTION 1910A.2.
4. SEE SHEET S1.0A FOR FOOTING SCHEDULES.
5. REFER TO SHEETS S11.1E & S11.2E FOR STAIR FOOTINGS. REFER TO SHEET S12.1 FOR SKYWALK FOOTINGS.
6. FOR PIPE PENETRATIONS SEE 20/S1.4
7. THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE SHALL VERIFY THAT THE NET FREE AREA OF THE UNDER-FLOOR VENTING IS EQUAL TO OR GREATER THAN THE VENT AREA REQUIRED AS SHOWN IN THE VENT SCHEDULE.
8. THE DESIGN OF FLOOR DRAINS UNDER THE BUILDING SHALL BE PROVIDED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
9. MODLINE PIERS SHALL BE FORMED AND POURED SO THAT THE TOP OF THE CONCRETE IS AT THE SAME ELEVATION AS THE TOP OF THE COLUMN WELD PLATES SHOWN IN DETAILS 2/S1.1 & 1/S1.2 SHIM PLATES PER DETAIL 5/S1.3 MAY BE USED WHERE REQUIRED.

VENT CALCULATIONS

VENT CALCULATIONS

VENT 18"x4' VENT X .73 = 4.38 SQ FT
ACCESSIBLE VENT 18"x4' VENT X .68 = 4.08 SQ FT
ACCESS VENT 3 SQ FT

5 X 4.38 = 17.52
2 X 4.08 = 12.24
ACV = 3
33.06 SQ FT ACHIEVED

120X40=4800
4800 / 150 = 32 SQ FT REQUIRED

FOUNDATION NOTE

IN THE EVENT, THAT AMS DOES NOT INSTALL THE FOUNDATION:

SUB CONTRACTOR PERFORMING CONCRETE FOUNDATION INSTALLATION MUST MEET THE FOLLOWING QUALIFICATIONS:
1. A MINIMUM OF 5 YEARS CONTINUOUS AND CURRENT EXPERIENCE INSTALLING MODULAR (PIT SET) FOUNDATIONS.
2. A MINIMUM OF 5 YEARS CONTINUOUS AND CURRENT EXPERIENCE WITH PUBLIC WORKS PROJECTS SPECIFIC TO EDUCATION.
3. A MINIMUM OF 5 YEARS CONTINUOUS AND CURRENT EXPERIENCE WORKING ON DIVISION OF STATE ARCHITECT (D.S.A.) APPROVED AND INSPECTED PROJECTS.

FOUNDATION DESIGN AND ENGINEERING BY AMS, INSTALLATION BY OTHERS. AMS IS NOT RESPONSIBLE FOR QUALITY OF INSTALLATION, INSPECTIONS, NOR ACCEPTANCE OF FOUNDATION. ANY REVIEW PERFORMED BY AMS SHALL BE CONSIDERED A COURTESY TO ASSIST WITH THE OVERALL PROJECT SUCCESS AND DOES NOT REMOVE THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH PLANS AND SPECIFICATIONS. CONTRACTOR PERFORMING FOUNDATION INSTALLATION IS RESPONSIBLE TO ENSURE THE FOUNDATION IS COMPLETED PER PLANS, SPECIFICATION'S, AND MEETS TOLERANCES FOR MODULAR BUILDINGS AS DESCRIBED BELOW. ALL DIMENSIONS INDICATED ON APPROVED DRAWINGS SHALL BE FIELD VERIFIED BY CONTRACTOR BEFORE CONCRETE POURING.

CRAWLSPACE TO BE 18" CLEAR MINIMUM FROM TOP OF STEM WALL TO TOP OF CONCRETE SLURRY. CONCRETE SLURRY (IF APPLICABLE) TO BE MIN 2" THICK, AND SLOPED TO UNDERFLOOR DRAINAGE (DRAINAGE TO COMPLY WITH IR 16-1)
TOP OF CONCRETE STEM WALL AND STEEL EMBEDS CANNOT BE MORE THAN 1/8" OUT OF PLANE, PLUMB AND LEVEL (HORIZONTAL, VERTICAL AND SQUARE, DIAGONAL) OVER THE OVERALL LENGTH AND WIDTH OF THE FOUNDATION FOOTPRINT.
AMS WILL NOT PROVIDE SUPERVISION NOR SIGN OFF ON WORK PERFORMED BY OTHERS.

IN THE EVENT ENGINEERING IS REQUIRED TO ACCOMMODATE ERROR'S OR OMISSION'S, REWORK, OR ADDITIONAL COORDINATION/ENGINEERING ALL EXPENSES SHALL BE REIMBURSED TO AMS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME

120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT — MARK RICHARD GAUDINO — No. C12631 — Ren. 3-31-23 — STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT — WILLIAM PATRICK GRIFFIN — No. C12631 — Ren. 3-31-23 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — JIMMY D. FINCH — No. 53387 — STRUCTURAL — STATE OF CALIFORNIA — RST#21137

7/22/2022

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:

FOUNDATION PLAN

SHEET NUMBER:

S1.0

G:\XXXXX_x Drive\ ## - 20## \ SM\SD\ 6/20/2022 1:04 AM W:\Projects\000-999\000-099\100-2# Santa Cruz City Schools- Gault ES\PRELIM\WORKING\Structural\S1.0 - FOUNDATION PLAN.dwg

			☒ 2000 PSF ALLOWABLE SOIL BEARING PRESSURE[1]		
	#	DESCRIPTION	PLAN SIZE[2]	THICKNESS[2]	REINFORCEMENT
☒ FLOOR LIVE LOAD 1st FLOOR 50+15 PSF 2nd FLOOR 50+15 PSF	1	SIDE WALL FOOTING	18" MIN.	24"	PER DETAIL 1/S1.1
	2	END WALL FOOTING	18" MIN.	24"	PER DETAIL 1/S1.1
	3	END WALL REAR PAD	6'-3" x 6'-3"	24"	PER DETAIL 2/S1.1
	4	END WALL FRONT PAD	7'-0" x 7'-0"	24"	PER DETAIL 2/S1.1
	5	REAR CORNER PAD	5'-3" x 5'-3"	24"	PER DETAIL 1/S1.2
	6	FRONT CORNER PAD	5'-6" x 5'-6"	24"	PER DETAIL 1/S1.2
	7	CONTINUOUS FOOTING (INT)	18" MIN.	24"	PER DETAIL 4/S1.1
	8	CONTINUOUS FOOTING (COMBINED)	30" MIN.	24"	PER DETAIL 4/S1.1
	9	END WALL REAR PAD (COMBINED)	5'-6" x 6'-0" (L) (W)	24"	PER DETAIL 2/S1.1
	10	END WALL FRONT PAD (COMBINED)	6'-5" x 6'-5"	24"	PER DETAIL 2/S1.1

NOTES:
1. DESIGN ALLOWABLE SOIL BEARING PRESSURE SHALL NOT BE GREATER THAN THE ALLOWABLE SOIL BEARING CAPACITY FOR THE DEAD + LIVE LOAD CONDITION REPORTED IN THE SITE-SPECIFIC GEOTECHNICAL REPORT. BUILDING FOUNDATION DESIGNED USING BASIC ALLOWABLE STRESS LOAD COMBINATIONS PER CBC SECTION 1605A.3.1, THEREFORE A 1/3 INCREASE IN SOIL BEARING CAPACITY FOR LOAD COMBINATIONS THAT INCLUDE WIND OR SEISMIC LOADS IS NOT PERMITTED.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK PATRICK LEONARD
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
MARK PATRICK LEONARD
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

RECORDED PROFESSIONAL ENGINEER
MANNY D. PRASAD
No. S3328
STRUCTURAL
STATE OF CALIFORNIA
RST#21137

7/22/2022

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

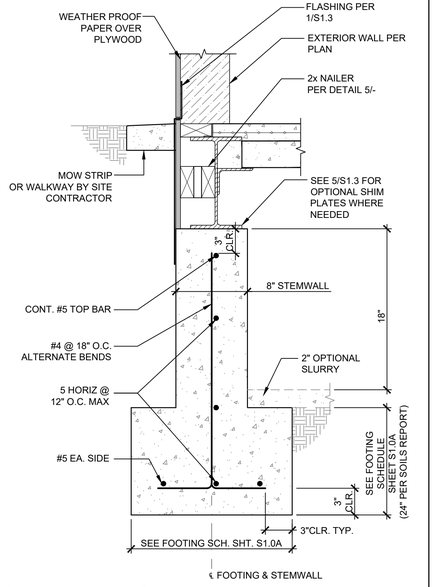
REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
FOOTING SCHEDULES

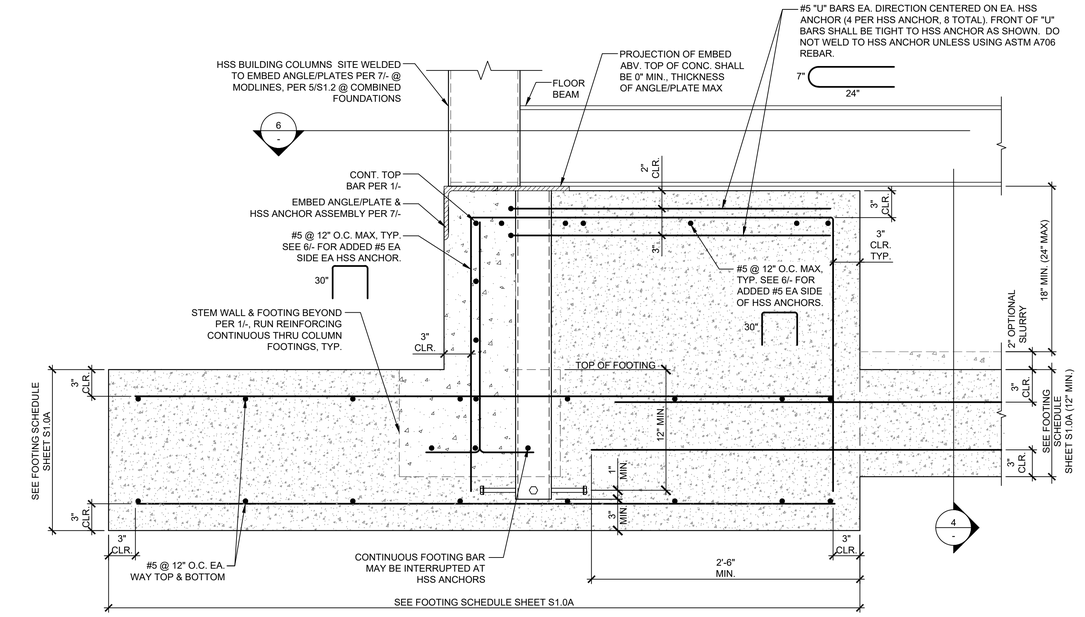
SHEET NUMBER:
S1.0A

02-XXXXXX - 2-Story 40' - 2SP x 40' - MASS - 5/20/2022 11:04 AM PLOTTED: 5/17/2022 11:04 AM W:\Projects\1656-1699\1656-1699\1657-2 Santa Cruz City Schools_Gault ES\PRELIM\ARCH\DWG\Sheet\set01 - S2 - 119149 - SR 0 - 1197-CNA.N.dwg

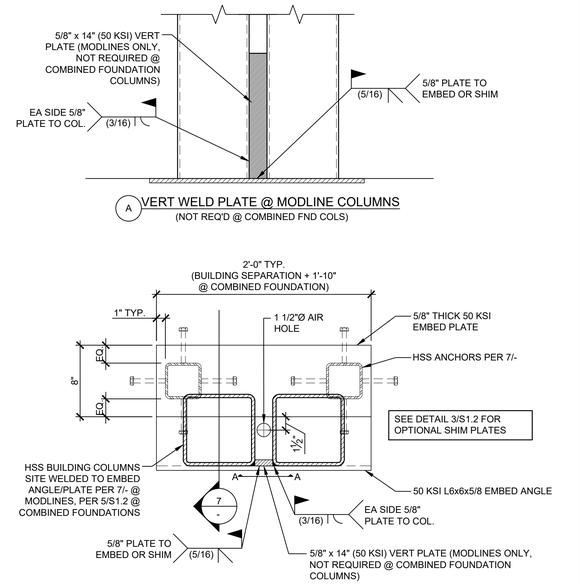


NOTE:
SEE DETAIL 2/S1.3 FOR ABOVE GRADE CONDITION

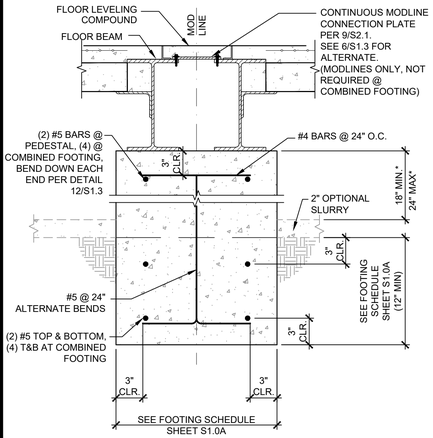
TYPICAL FOOTING DETAIL
SCALE: 1-1/2" = 1'-0" | 1



MODLINE & COMBINED FOOTING DETAIL
SCALE: 1-1/2" = 1'-0" | 2

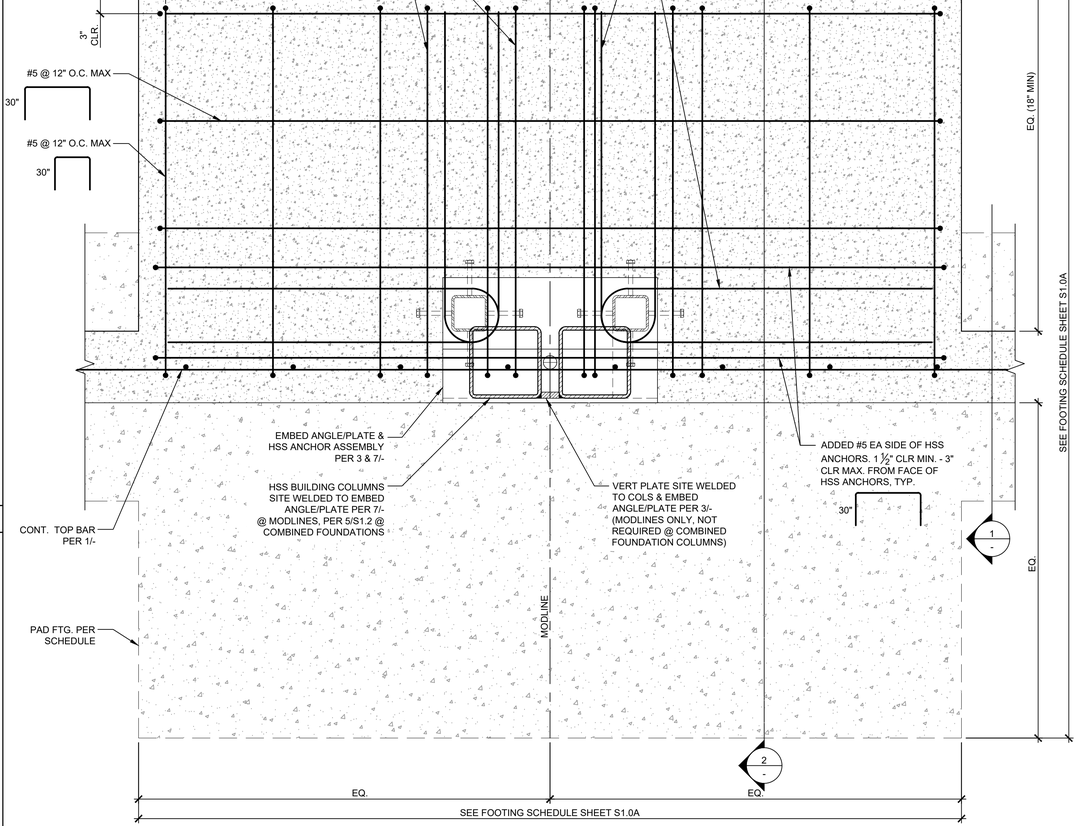


MODLINE & COMBINED FOOTING ANCHORAGE PLAN DETAIL
SCALE: 1-1/2" = 1'-0" | 3

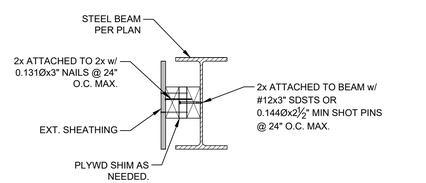


* NOTE:
MODLINE PIERS SHALL BE FORMED & POURED SO THAT THE TOP OF THE CONCRETE IS AT THE SAME ELEVATION AS THE TOP OF THE COLUMN EMBED ANGLES/PLATES SHOWN ON DETAIL 2/S1.1. SHIM PLATES AS DETAILED ON 5/S1.3 MAY BE USED WHERE REQUIRED.

INTERIOR MODLINE FOOTING
SCALE: 1-1/2" = 1'-0" | 4



PLAN VIEW @ MODLINE & COMBINED FOOTING
SCALE: 1-1/2" = 1'-0" | 6



TYP. NAILER DETAIL
SCALE: 1-1/2" = 1'-0" | 5

MODLINE & COMBINED FOOTING ANCHORAGE SECTION DETAIL
SCALE: 1-1/2" = 1'-0" | 7

NOT USED
SCALE: 1-1/2" = 1'-0" | 8

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING
FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT MARK DESMARO No. C-24138 EXP. 08.31.23 STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT BRENDAN PATRICK O'DONNELL No. C12631 Ren. 3-31-23 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER DANNY D. FINCHER No. S3385 STRUCTURAL STATE OF CALIFORNIA RST#21137

7/22/2022

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

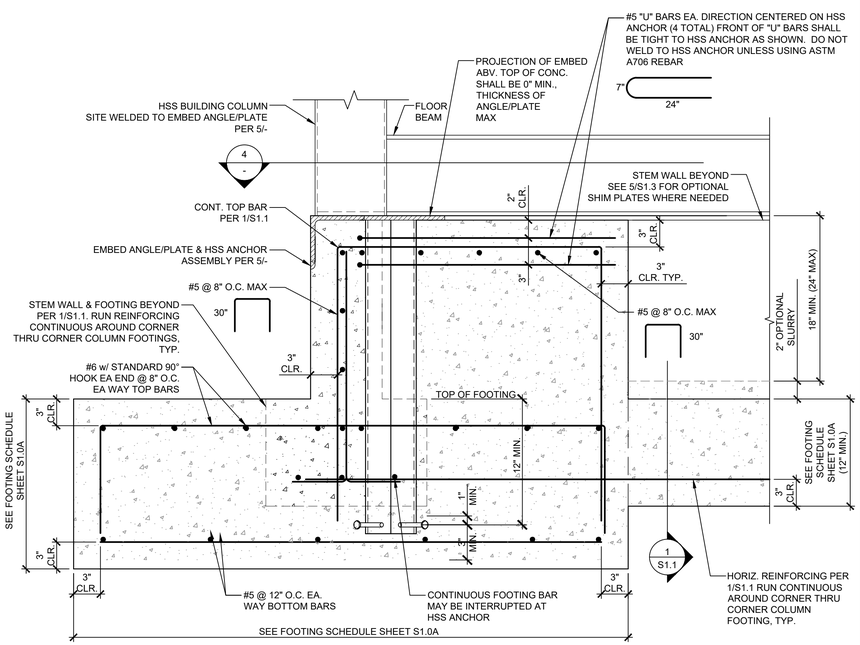
REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
FOUNDATION DETAILS

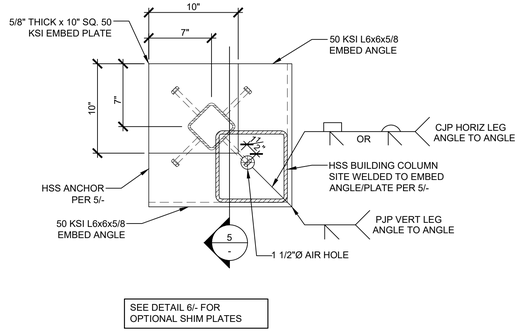
SHEET NUMBER:
S1.1

I:\AMS\XXXX_3-Docs All_2.0 AMS_SHEETS 8-5-2022\S1.1 FOUNDATION DETAILS.dwg 8/5/2022 11:01 AM By:Wayne Yee



CORNER FOOTING DETAIL

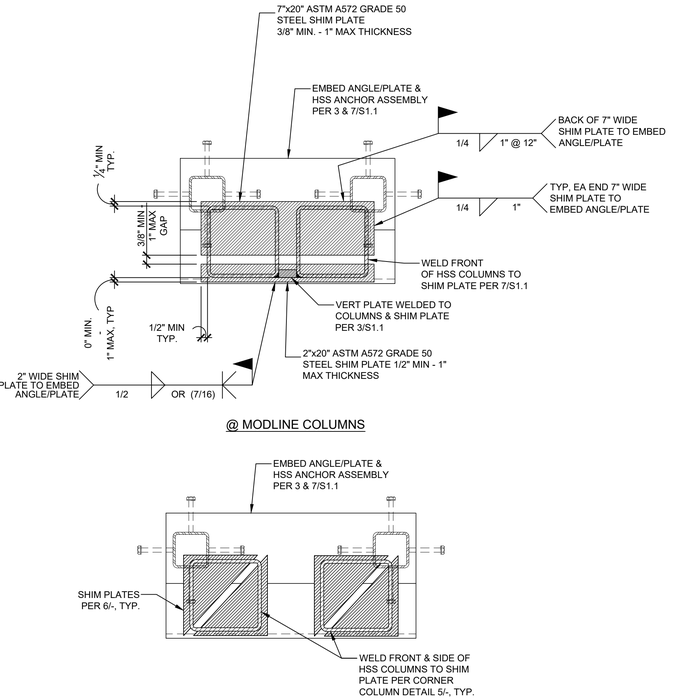
SCALE: 1-1/2" = 1'-0" | 1



SEE DETAIL 6/- FOR OPTIONAL SHIM PLATES

CORNER FOOTING ANCHORAGE PLAN DETAIL

SCALE: 1-1/2" = 1'-0" | 2

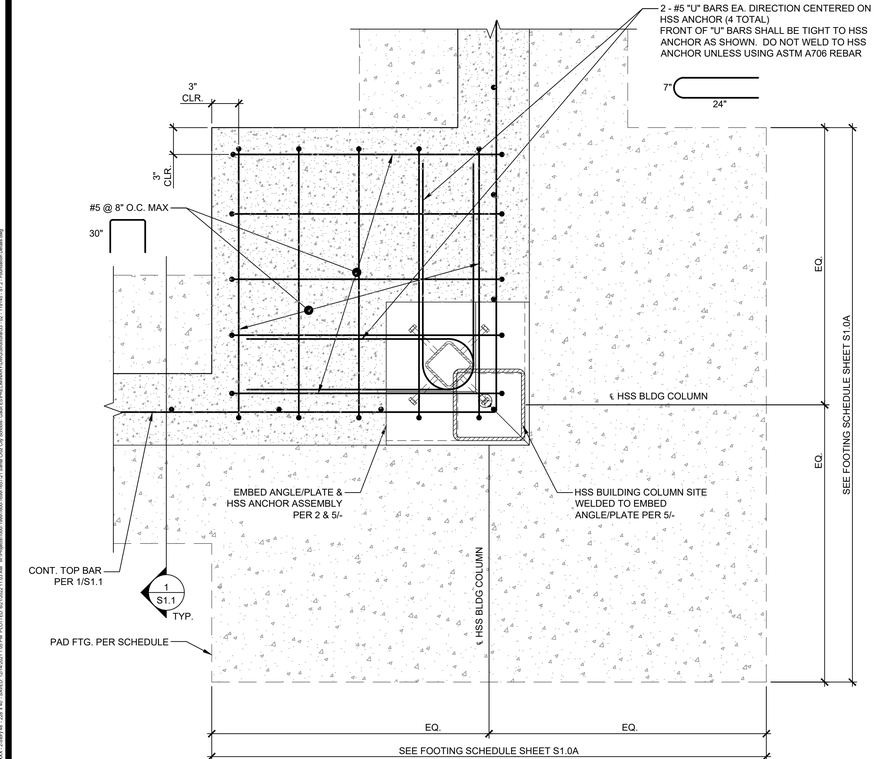


@ MODLINE COLUMNS

@ COMBINED FOUNDATION COLUMNS

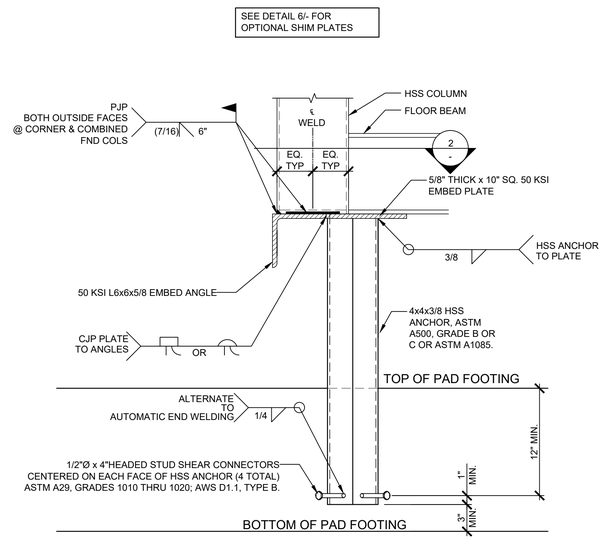
OPTIONAL SHIMS @ MODLINE & COMBINED FOOTING ANCHORAGE

SCALE: 1-1/2" = 1'-0" | 3



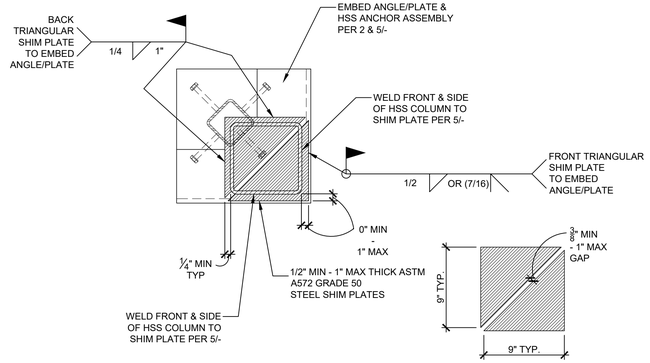
PLAN VIEW @ CORNER FOOTING

SCALE: 1-1/2" = 1'-0" | 4



CORNER FOOTING ANCHORAGE SECTION DETAIL

SCALE: 1-1/2" = 1'-0" | 5



OPTIONAL SHIMS @ CORNER FOOTING ANCHORAGE

SCALE: 1-1/2" = 1'-0" | 6

NOT USED

7

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME

120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK RICHARD ORR
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
BRIAN PATRICK QUINN
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
JIMMY D. FINCH
No. S3387
STRUCTURAL
STATE OF CALIFORNIA
RST#21137

7/22/2022

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

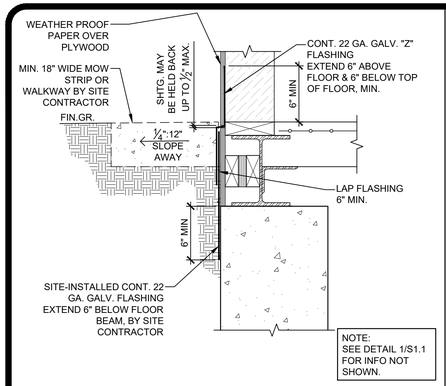
SHEET TITLE:

FOUNDATION DETAILS

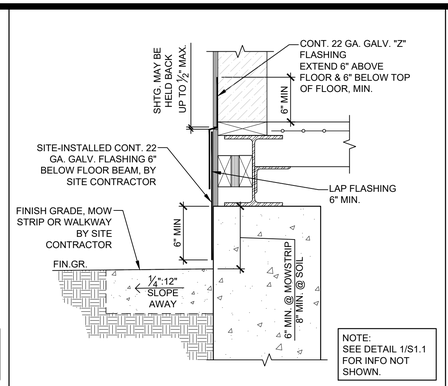
SHEET NUMBER:

S1.2

D:\XXXXX 3-Story.rvt 28" x 40" (S/H/D) 12/14/2021 1:08 PM PLOTTED: 6/21/2022 11:18 AM M:\Plans\2020\ 2000\2000-1908\1657-21 Santa Cruz City Schools- Gault ES\PRELIM\CP\DS\Structural\S1 02 - 119749 - S1.2 - Foundation Details.dwg

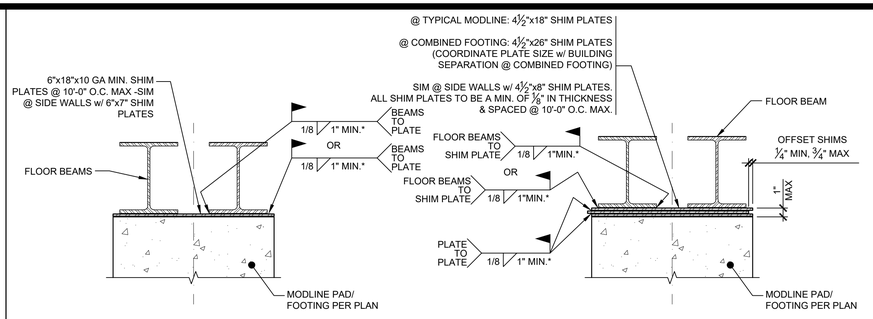


TYP. FLASHING DETAIL — SCALE: 1-1/2" = 1'-0" — 1



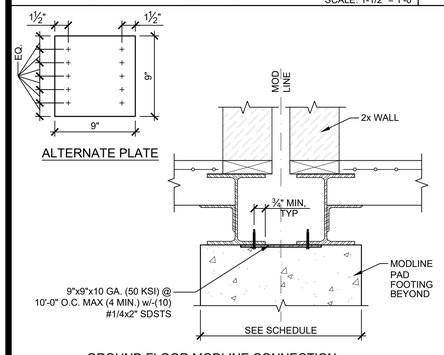
ABOVE GRADE FLASHING DETAIL — SCALE: 1-1/2" = 1'-0" — 2

NOT USED — 3



* - PRESCRIBED WELDS ARE TO PROVIDE NOMINAL CONNECTION BETWEEN THE BEAMS AND SHIMS AND ARE NOT REQUIRED TO TRANSFER STRUCTURAL SHEAR OR UPLIFT FORCES.

SHIM PLATES @ FLOOR BEAMS — SCALE: 1-1/2" = 1'-0" — 5



GROUND FLOOR MODLINE CONNECTION WHEN NOT ACCESSIBLE FROM ABOVE

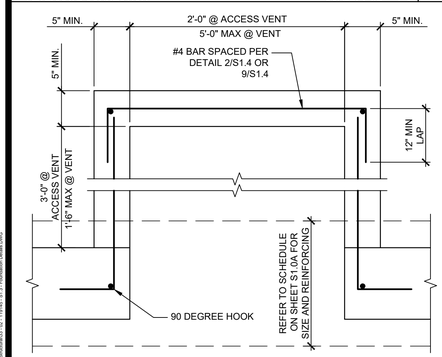
GROUND FLOOR MODLINE ALTERNATE CONNECTION — SCALE: 1-1/2" = 1'-0" — 6

NOT USED — 7

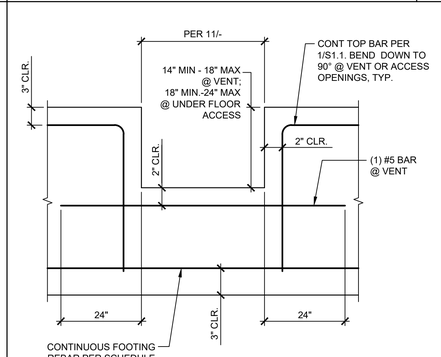
NOT USED — 8

NOT USED — 9

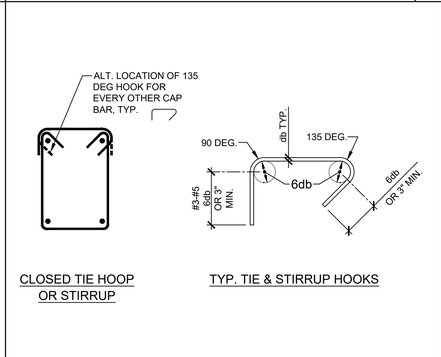
NOT USED — 10



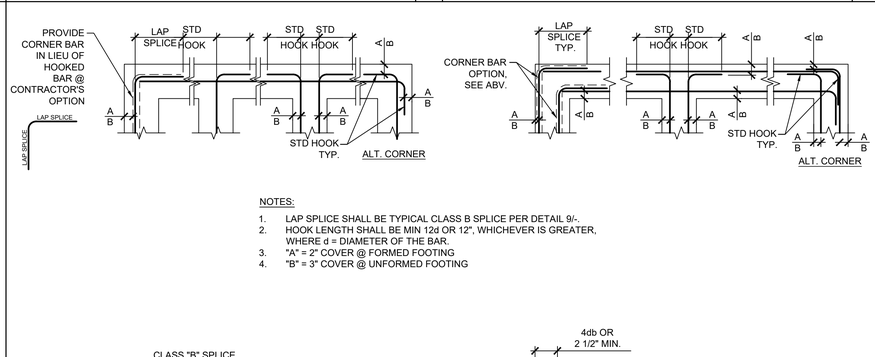
REBAR PLAN @ ACCESS/VENT — SCALE: 1-1/2" = 1'-0" — 11



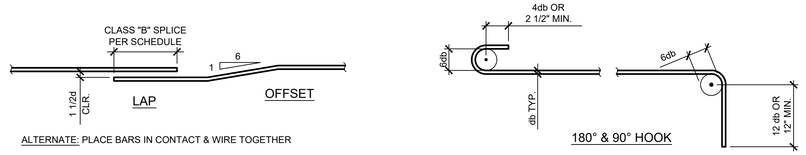
REBAR ELEVATION @ ACCESS/VENT — SCALE: 1-1/2" = 1'-0" — 12



TYP. CLOSED TIE HOOP OR STIRRUP — N.T.S. — 13



NOTES:
1. LAP SPLICE SHALL BE TYPICAL CLASS B SPLICE PER DETAIL 9/-.
2. HOOK LENGTH SHALL BE MIN 12d OR 12", WHICHEVER IS GREATER, WHERE d = DIAMETER OF THE BAR.
3. "A" = 2" COVER @ FORMED FOOTING
4. "B" = 3" COVER @ UNFORMED FOOTING

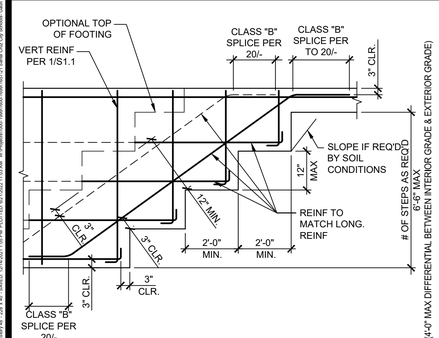


ALTERNATE: PLACE BARS IN CONTACT & WIRE TOGETHER

BAR SIZE #	DEVELOPMENT LENGTH[3]			TYPICAL CLASS B LAP SPLICE LENGTH[4]					
	3000 PSI (IN)	3500 PSI (IN)	4000+ PSI (IN)	3000 PSI		3500 PSI		4000+ PSI	
				TOP[2] (IN)	BOTTOM (IN)	TOP[2] (IN)	BOTTOM (IN)	TOP[2] (IN)	BOTTOM (IN)
3	13	12	12	21	16	20	16	20	16
4	17	16	15	28	22	26	20	24	19
5	21	20	18	35	27	33	25	30	24
6	25	23	22	42	32	39	30	36	28

NOTES:
1. THE ABOVE TABLE IS BASED ON GRADE 60 STEEL.
2. TOP BARS ARE ANY BARS WITH MORE THAN 12" OF CONCRETE PLACED BELOW.
3. DEVELOPMENT LENGTH IS CALCULATED FOR TYP. BARS - Ψ_t=1.0
4. LAP SPLICES IN ADJACENT BARS SHALL BE STAGGERED, UNLESS OTHERWISE NOTED.

REINFORCEMENT BARS SPLICES & BENDS AND BAR LAP SCHEDULE — N.T.S. — 20



NOTE:
SEE FOOTING SCHEDULE FOR WIDTH & REINFORCING.

STEPPED FOOTING SECTION — N.T.S. — 16

NOT USED — 17

NOT USED — 18

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT MARK RICHARD LEE No. C12138 STATE OF CALIFORNIA 03.31.23

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT TIMOTHY PATRICK GRAY No. C12631 Ren. 3-31-23 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER TIMOTHY D. FINNEY No. 53387 STRUCTURAL STATE OF CALIFORNIA RST#21137

7/22/2022

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

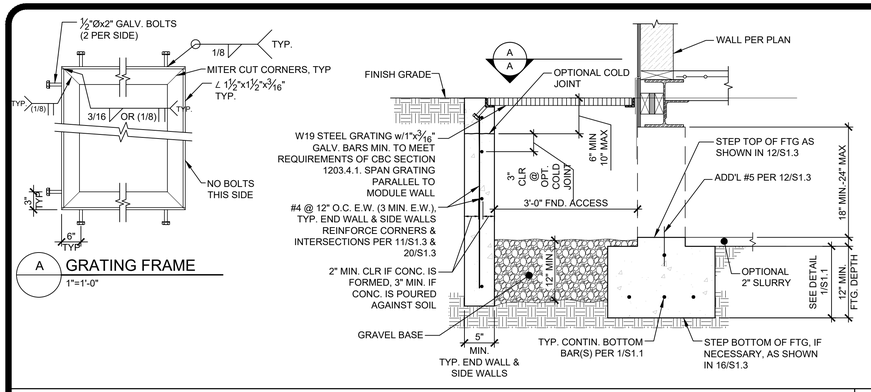
REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
FOUNDATION DETAILS

SHEET NUMBER:
S1.3

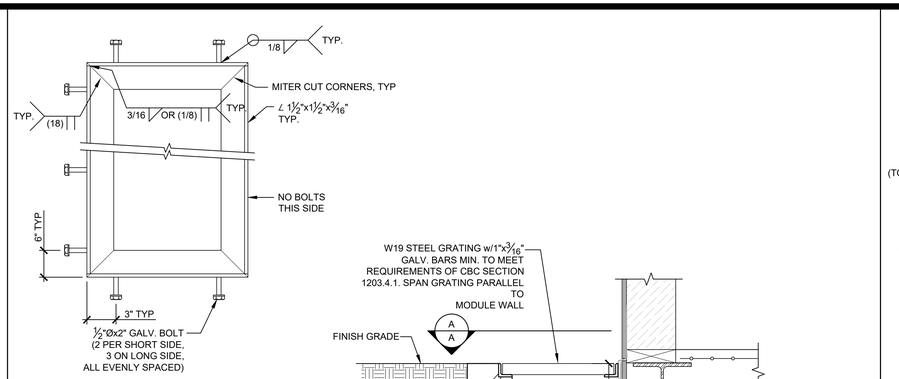
D:\XXXXXX 2 Story.rvt - 229 x 40' SAVED: 07/14/2021 1:55 PM PLOTTED: 6/21/2022 1:55 PM M:\Projects\500-599\560-569\562-23 Santa Cruz City Schools - Gault ES\PRELIM\MAIN\DWG\Structural\S2 - 1S1A1 - S1.3 - Foundation Details.DWG



A GRATING FRAME
1"=1'-0"

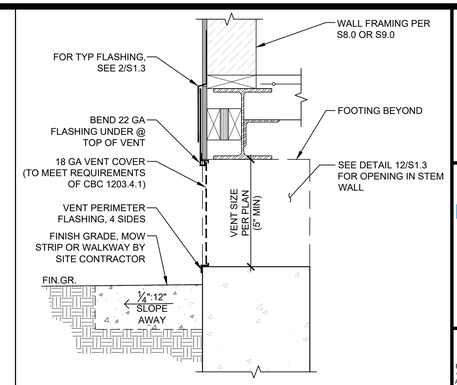
TYP. BELOW GRADE ACCESS WELL DETAIL

SCALE: 1" = 1'-0" | 2



NOTE:
SEE 1/S1.1 FOR BALANCE OF DETAIL

A GRATING FRAME DETAIL
1-1/2"=1'-0"



ABOVE GRADE VENT DETAIL

SCALE: 1-1/2" = 1'-0" | 5

NOT USED | 6

NOT USED | 7

TYP. BELOW GRADE VENT DETAIL

SCALE: 1-1/2" = 1'-0" | 9

NOT USED | 10

NOT USED | 11

NOT USED | 12

NOT USED | 13

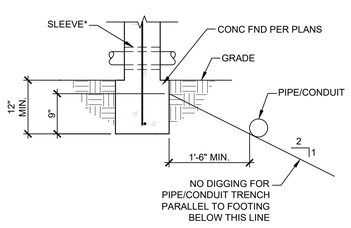
NOT USED | 14

NOT USED | 15

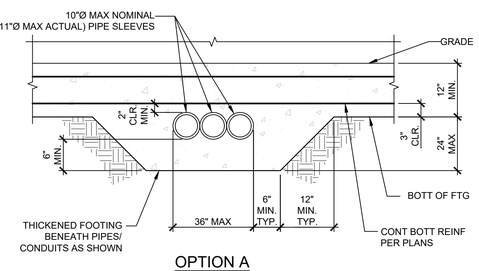
NOT USED | 16

NOTES:

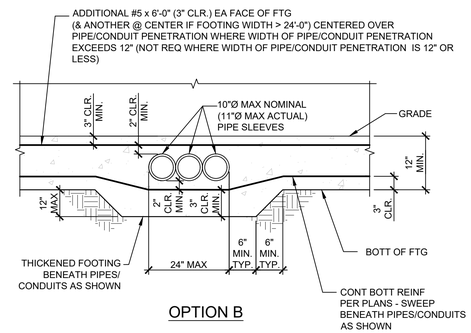
1. AS AN OPTION TO INDIVIDUAL PIPE SLEEVES, THE FOOTING MAY BE BLOCKED OUT FOR MULTIPLE PIPES (10" HIGH x 36" WIDE MAX @ OPTION "A", 10" HIGH x 24" WIDE MAX @ OPTION "B"), OR INDIVIDUALLY, PROVIDE 1" MIN CLEARANCE ALL AROUND BETWEEN PIPES/CONDUITS & BLOCKOUT/SLEEVES & FILL w/ CAULK.
2. CONCRETE SHALL BE WELL CONSOLIDATED AROUND & UNDER PIPES, CONDUITS, SLEEVES & BLOCKOUTS TO PREVENT CONCRETE VOIDS.
3. PROVIDE 2" CLEAR MINIMUM BETWEEN BLOCKOUT SLEEVES AND REINFORCEMENT.
4. WHERE TOP OF PIPES/CONDUITS ARE 12" OR MORE BELOW THE BOTTOM OF THE FOOTING, A THICKENED FOOTING AROUND PIPES/CONDUITS IS NOT REQUIRED. BACKFILL & COMPACT TO 95% OVER PIPES/CONDUITS PRIOR TO PLACING FOOTING.



*ALL PIPES TO CLEAR SLEEVES BY 1" ALL AROUND TYP., CAULK WITH PLASTIC MATERIAL



OPTION A



OPTION B

UTILITY PIPES / CONDUIT THROUGH FOOTING

SCALE: 1-1/2" = 1'-0" | 20

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING
FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK EDWARD DAVIS
No. C-31135
Ren. 08.31.2023
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
BRIAN PATRICK CURRY
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
JIMMY D. FINCH
No. 53382
STRUCTURAL
STATE OF CALIFORNIA
RST#21137

7/22/2022

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

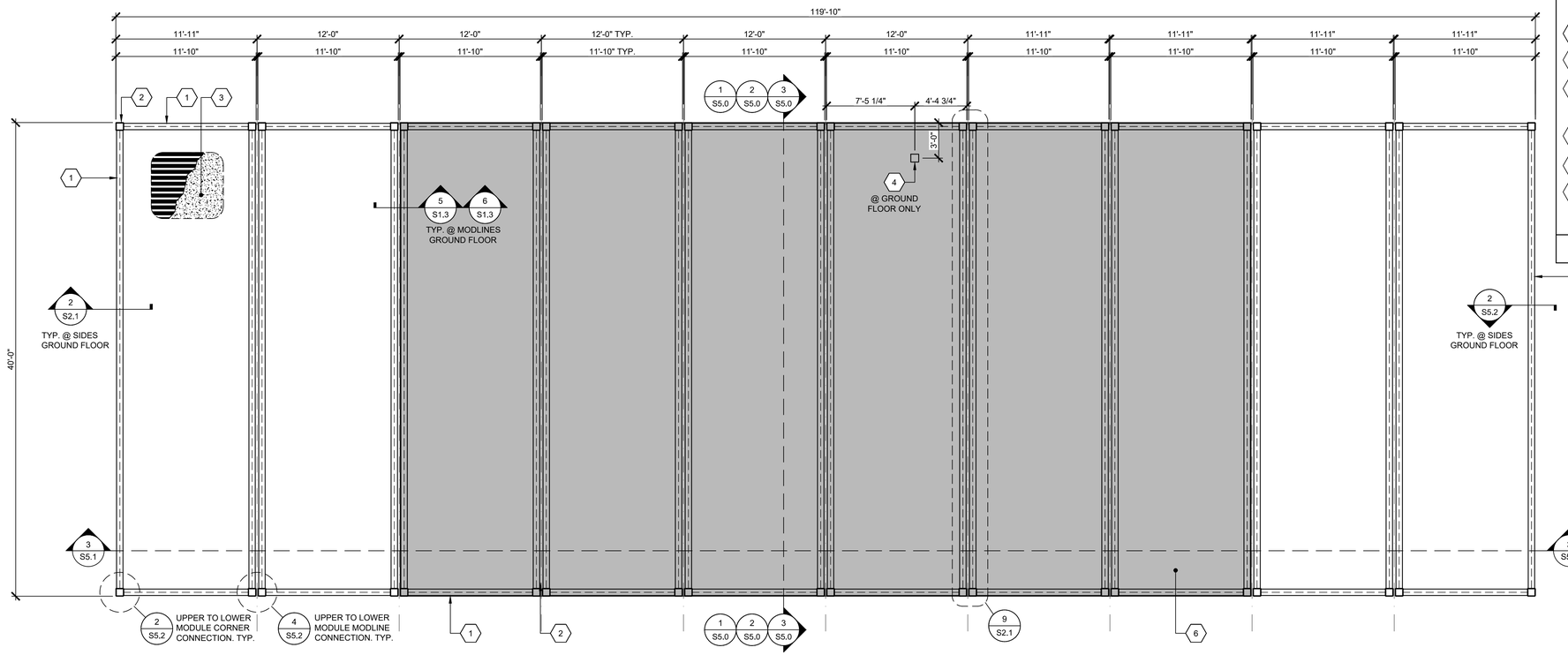
REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
FOUNDATION DETAILS

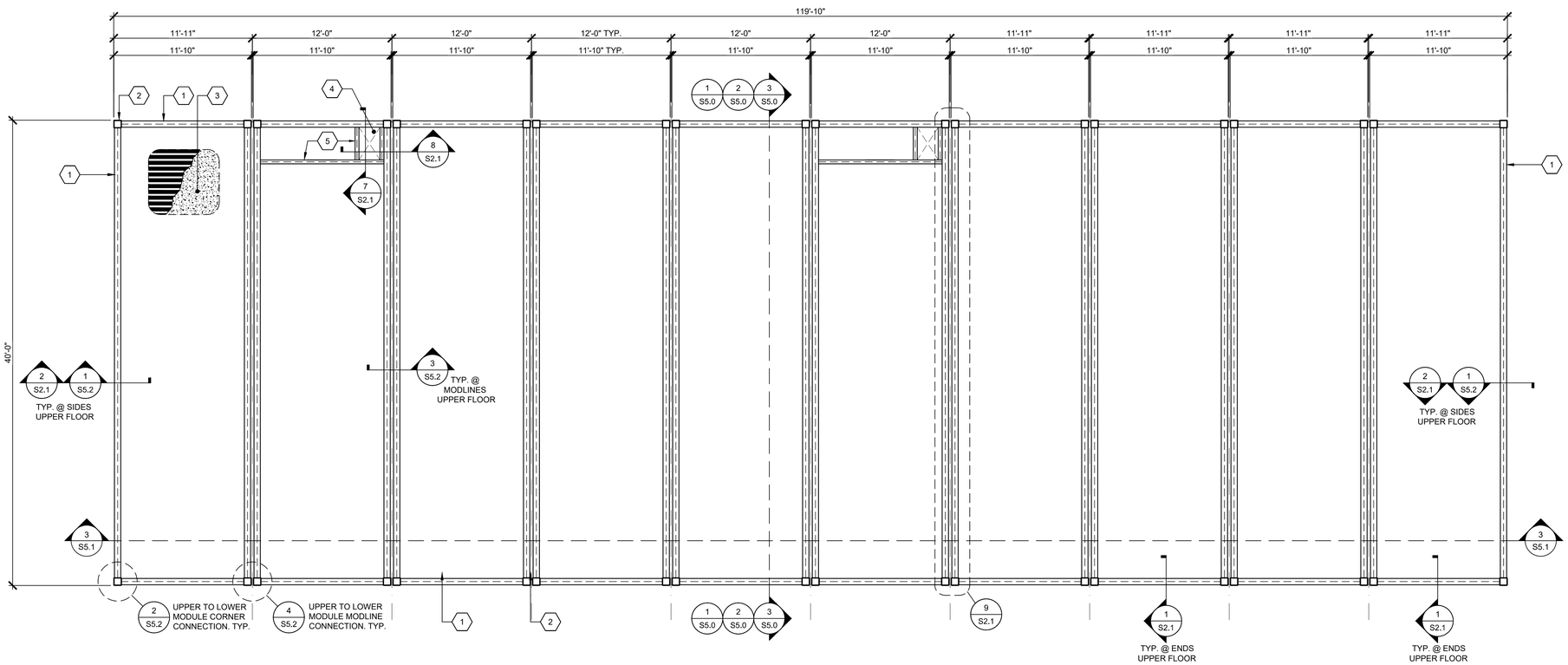
SHEET NUMBER:
S1.4

I:\AMS\XXXX 3-Story.4F 28F 4.4F - 2(4FD) 32'x120'.11.0.Fin PLOTTED: 6/6/2022 11:58 PM BY:Pham,Will(I:\Will Pham\3000-3999\3556-3599\3572 Santa Cruz City Schools- Gault ES\PW)_MAN\PW\3556\Drawing\S1.02 - 119104 - S1.4 - Foundation Details.dwg



GROUND FLOOR FRAMING PLAN - 50+15 PSF L.L.

SCALE : 3/16"=1'-0" | 1



UPPER FLOOR FRAMING PLAN - 50 PSF L.L.

SCALE : 3/16"=1'-0" | 2

1 FLOOR BEAM PER SHEET S5.0

2 HSS COLUMN PER SHEET S5.0

3 2" LIGHT WEIGHT CONCRETE FILL w/ 6x6-W1.4xW1.4 WWF w/ 1'-0" LAP OVER ASC 16 GA 3WH-36 GALVANIZED DECK (5" TOTAL THICKNESS). SEE 4/S2.1 FOR DECK PROPERTIES, ATTACHMENT PATTERN, AND TEMPORARY SHORING REQUIREMENTS.

4 OPTIONAL BLOCK-OUT PER S2.1

5 W4x13 JOIST REINFORCEMENT AT OPENINGS

6 100 PSF L.L. FLOORING

KEY NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME

120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK RICHARD LEVENE
No. C31135
Ren. 8-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
ANDREW PATRICK O'HAGAN
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
JOHNNY D. PARKER
No. S3382
STRUCTURAL
STATE OF CALIFORNIA
RESTRZ1137

7/22/2022

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/22/22
PROJECT NO:	1657-21

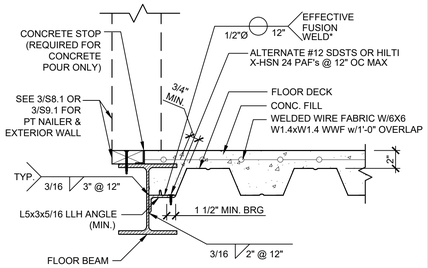
SHEET TITLE:

GROUND & UPPER
FLOOR FRAMING PLANS

SHEET NUMBER:

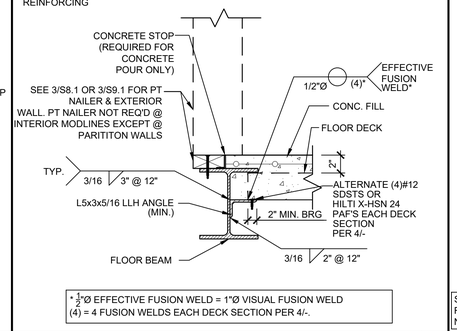
S2.0

S2XXXXX - 2-Story.rvt - 22W x 40" - EFACS: 6/17/2022 8:00 AM PLOTTED: 7/19/2022 1:14 AM - Mark Levene/Projects/2020-3999/3900-3999/3921-0 Santa Cruz City Schools - Gault ES/PRELIM/ARCH/PDF/Structural/S2 - 119146 - S2.0 - FLR FRAM - Ground and Upper Floor.dwg



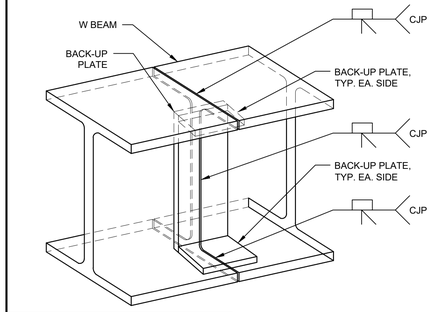
* $\frac{1}{2}$"Ø EFFECTIVE PUDDLE WELD = 1"Ø VISUAL FUSION WELD

FLOOR DETAIL @ END WALL
SCALE : 1 1/2"=1'-0" | 1



* $\frac{1}{2}$"Ø EFFECTIVE FUSION WELD = 1"Ø VISUAL FUSION WELD
(4) = 4 FUSION WELDS EACH DECK SECTION PER 4/-.

FLOOR DETAIL @ SIDE WALL
SCALE : 1 1/2"=1'-0" | 2



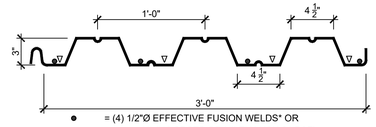
SEE 7/S5.2 FOR MOMENT CONNECTION REQUIREMENTS. SEE SHEET S5.3 FOR NON-DESTRUCTIVE TESTING REQUIREMENTS.

NO SPLICES WITHIN 48" OF COLUMN

FLOOR BEAM SPLICE
SCALE : 1 1/2"=1'-0" | 3

3WxH DECK PER IAPMO ER #329		MINIMUM PROPERTIES		
PLAN DESIGNATION	DECK TYPE	S_{gfpot} IN^3/FT	I_g IN^4/FT	AVAILABLE DIAPHRAGM SHEAR (LRFD)
	3"-18 GA ASC 3WxH GALV DECK (36" WIDE)	0.789	1.233	1565 PLF w/2" L.W.C. TOPPING (5" TOTAL SLAB THICKNESS)

DECK PROFILE



● = (4) 1/2"Ø EFFECTIVE FUSION WELDS* OR
▽ = (4) #12 SDSTS OR HILTI X-HSN 24 PAF's
(SEE 1/- FOR ATTACHMENT TO PARALLEL SUPPORTS)

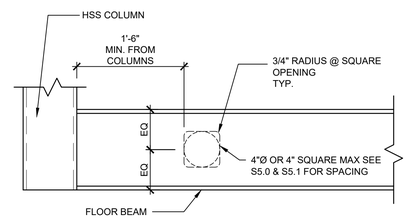
SIDE LAP ATTACHMENT TO BE BUTTON PUNCHED @ 36" O.C. MAX

* $\frac{1}{2}$"Ø EFFECTIVE WELD= 1"Ø VISUAL FUSION WELD

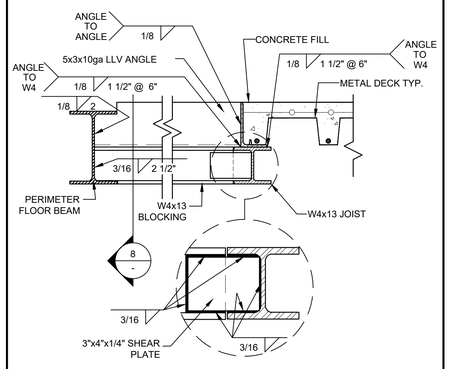
TEMPORARY SHORING @ UPPER FLOOR (INCLUDING BALCONY)
TEMPORARY MID-SPAN SHORING IS REQUIRED DURING CONCRETE PLACEMENT.

TEMPORARY SHORING @ GROUND FLOOR
TEMPORARY SHORING NOT REQUIRED

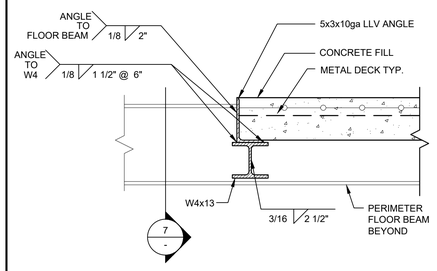
3WxH METAL DECK PROP & PROFILE
SCALE : NTS | 4



OPENINGS IN FLOOR BEAMS @ GROUND & UPPER FLOORS
SCALE : 1 1/2"=1'-0" | 6

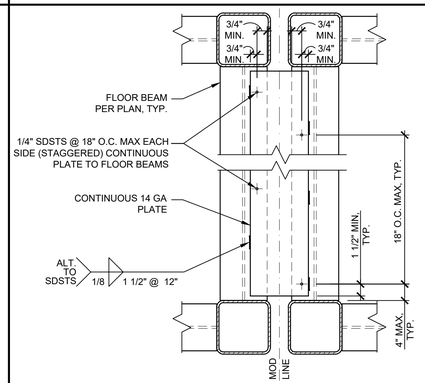


FLOOR OPENING REINFORCING
SCALE : 1 1/2"=1'-0" | 7

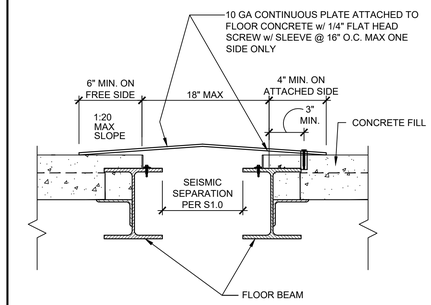


NOTE: END WALL SHOWN - SIDE WALL SIMILIAR

OPENING W4 TO FLOOR BEAM
SCALE : 1 1/2"=1'-0" | 8



MOD-LINE CONNECTOR PLATE
SCALE : 1 1/2"=1'-0" | 9



CLOSURE DETAIL
SCALE : 1 1/2"=1'-0" | 10

NOT USED
11

NOT USED
12

NOT USED
15

NOT USED
16

NOT USED
17

NOT USED
18

NOT USED
19

NOT USED
20

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT MARK RICHARD GAULT No. C-38138 STATE OF CALIFORNIA 31-23

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT PATRICK GORMAN No. C12631 Ren. 3-31-23 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER MANNY D. FRANCISCO No. S3367 STRUCTURAL STATE OF CALIFORNIA RST#231137

7/22/2022

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

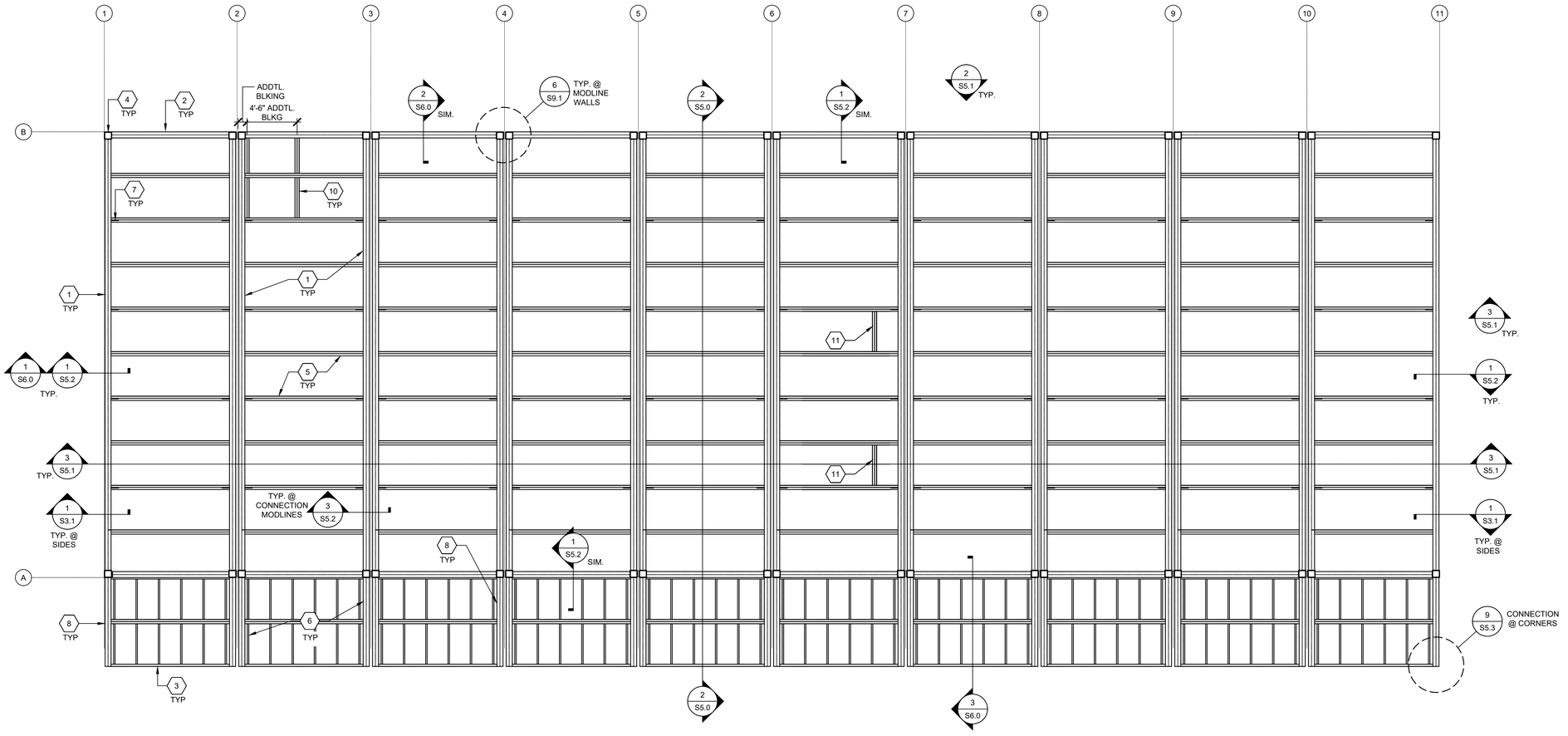
REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
FLOOR FRAMING DETAILS

SHEET NUMBER:
S2.1

©XXXXX - Entry Ref - 22R x 4F - SAVED: 6/7/2022 11:59 AM PLOTTED: 6/7/2022 11:59 AM - www.fastfusionfiles/xxxx/xxxx-xxxx-xxxx-Santa Cruz City Schools- Gault ES/RFIs/_MANUFACTURER/Structural/01 - 02 - 119145 - S2.1 - Ground & Upper Fl FRMG PLNS AND DET.dwg



GROUND FLOOR - ROOF FRAMING PLAN

SCALE:3/16"=1'-0"

1

1 LONGITUDINAL BEAM PER SHEET S5.0

2 TRANSVERSE BEAM PER SHEET S5.0

3 21"x2 1/2" x12GA FORMED FASCIA "C" CHANNEL. REFER TO SHEET S0.0.

4 HSS COLUMN PER SHEET S5.0

5 'Z' FORMED OR "C" FORMED ROOF PURLINS @ 48" O.C. MAX. REFER TO SHEET S0.0 FOR SIZES.

6 600S162-33 STEEL STUDS @ 24" O.C. AT LOWER ROOF OVERHANG SOFFIT PER 3/S6.0. SEE 19(B)/S9.1 FOR STUD SECTION PROPERTIES.

7 BENT PLATE DIAGONAL BEAM BRACE. SEE 1/S3.1 AT EXTERIOR SIDE WALL ROOF BEAMS & 3/S5.2 AT INTERIOR MODLINE ROOF BEAMS.

8 'Z' FORMED OR 'C' FORMED ROOF PURLIN WHERE REQUIRED FOR FIRE SPRINKLER PIPING SUPPORT. REFER TO SHEET S0.0 FOR SIZES.

9 OUTRIGGER BEAM PER SHEET S5.0.

10 FULL-DEPTH BLOCKING PER 9/S3.1

11 BLOCKING FOR FIRE SPRINKER BRACE PER 13/FS-1

KEY NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME

120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK RICHARD GAULT
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
GREGORY PATRICK GRAHAM
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

RECORDED PROFESSIONAL ENGINEER
MANNY D. PARSON
No. S3328
STRUCTURAL
STATE OF CALIFORNIA
RST#21137

7/22/2022

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

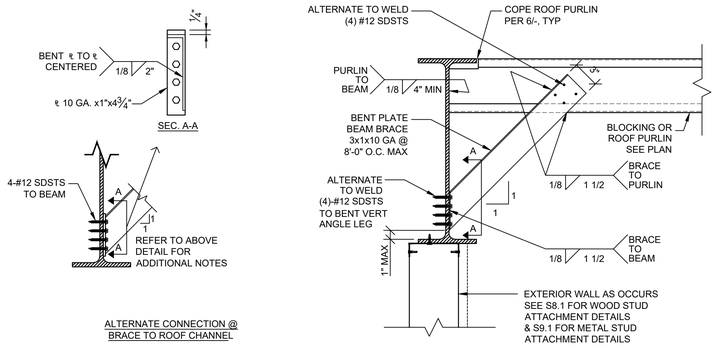
SHEET TITLE:

GROUND FLOOR
ROOF FRAMING PLAN

SHEET NUMBER:

S3.0

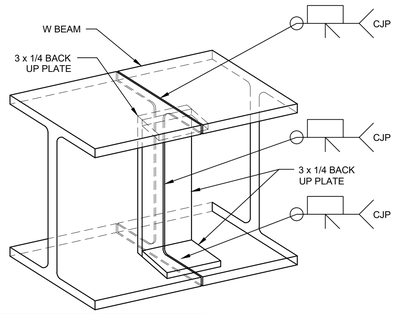
G:\XXXXXX - 3 Story\4F - 2SF\4 str - SAVED 3/4/2022 10:01 AM PLOTTED: 6/1/2022 11:04 AM W:\Projects\1656-1699\1656-1699\1657-21 Santa Cruz City Schools- Gault ES\PRELIM\ARCH\S0\Structural\S3 - 1SHS - 3.5 - SOG F.RWG, GROUND FLR.dwg



ALTERNATE CONNECTION @ BRACE TO ROOF CHANNEL

GROUND FLOOR PURLIN CONNECTION @ SIDEWALL

SCALE : 1 1/2"=1'-0" | 1



SEE 7//S5.2 FOR MOMENT CONNECTION REQUIREMENTS. SEE SHEET S5.3 FOR NON-DESTRUCTIVE TESTING REQUIREMENTS.

NO SPLICES WITHIN 48" OF COLUMN

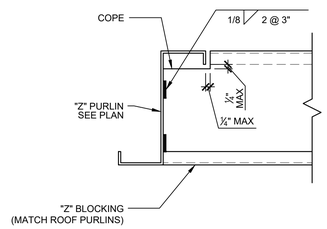
OPTIONAL

ROOF BEAM SPLICE DETAIL

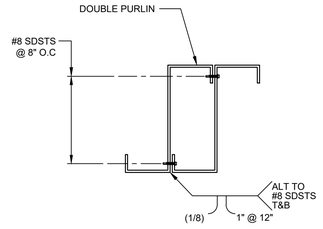
N.T.S. | 2

NOT USED | 3

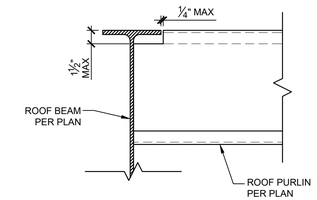
NOT USED | 4



@ 'Z' PURLINS



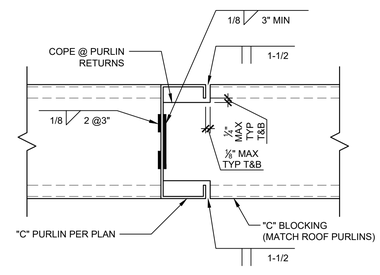
@ 'Z' PURLINS



TYP ROOF PURLIN COPING DETAIL | 6

NOT USED | 7

NOT USED | 8

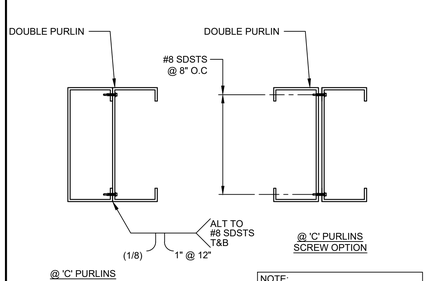


@ 'C' PURLINS

NOTE:
SIMILAR @ ROOF BEAMS.

BLOCKING DETAIL

SCALE : 1 1/2"=1'-0" | 9



NOTE:
1. SEE 9/- FOR FULL DEPTH BLOCKING WHERE OCCURS.
2. SCREWS CONNECTIONS, BACK TO BACK WELDED CONNECTION, FRONT TO BACK OR BACK TO BACK.

DOUBLE PURLIN CONNECTION

SCALE : 1 1/2"=1'-0" | 10

NOT USED | 11

NOT USED | 12

NOT USED | 13

NOT USED | 14

NOT USED | 15

NOT USED | 16

NOT USED | 17

NOT USED | 18

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME

120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK RICHARD GAULT
No. C34138
Ren. 8-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
PATRICK CHARLES HOUGH
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
JOHNNY D. PEARSON
No. S3382
STRUCTURAL
STATE OF CALIFORNIA
RST#21137

7/22/2022

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

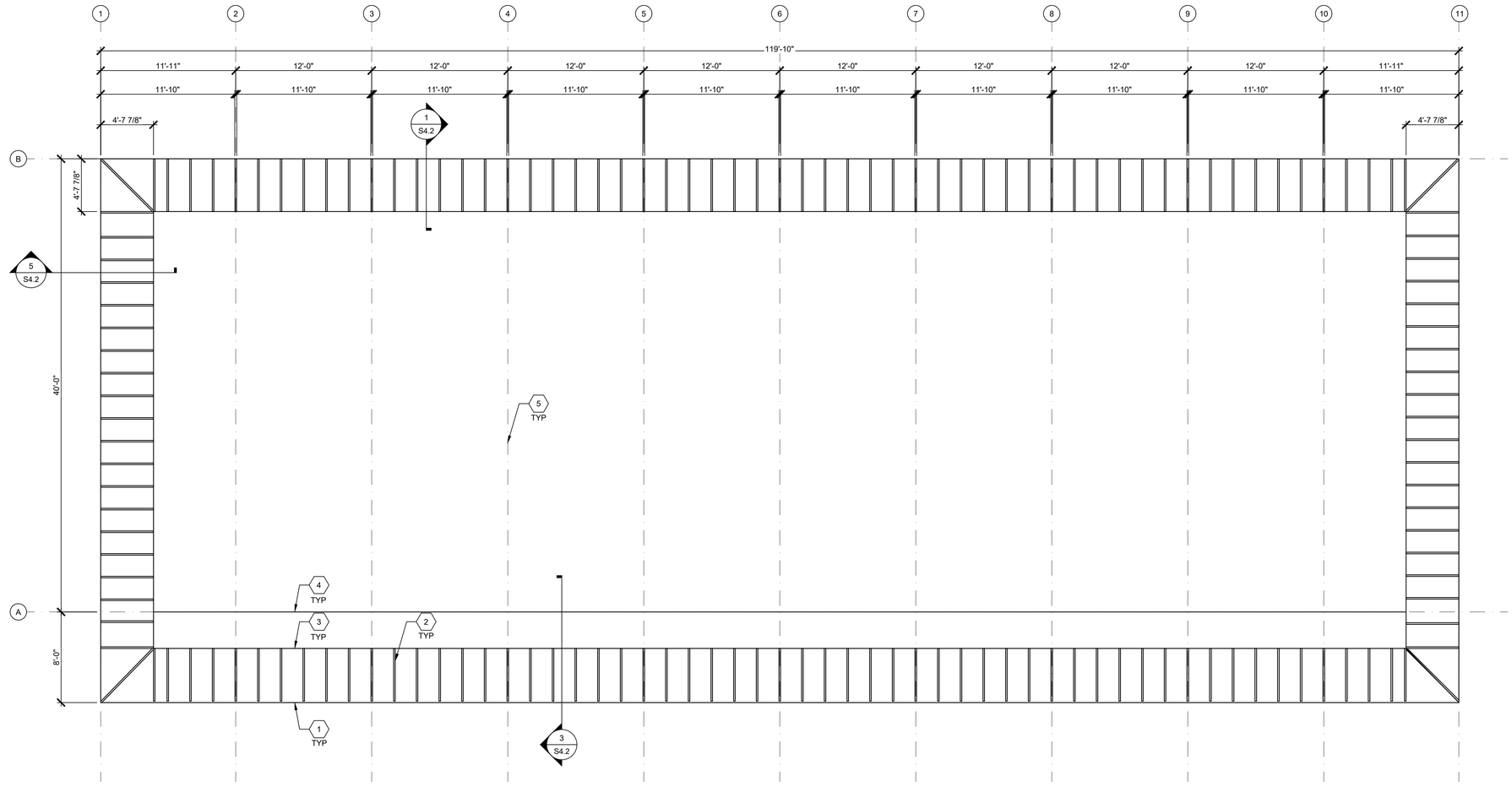
SHEET TITLE:

ROOF FRAMING
DETAILS
GROUND FLOOR

SHEET NUMBER:

S3.1

D:\AXXXX - 3.0\rvt 18* - CDR 18.rvt SAVED: 6/21/2022 3:51 PM PLOTTED: 6/21/2022 3:51 PM Jose.Ma\Family\Revit\300-399\1600-1699\1620-21 Santa Cruz City Schools - Gault ES\PRELIM\WY\DWG\structural*.rvt - 1/8"=1'-0" - S3.1 - FRAME CONCEPT - GROUND FLR.dwg



MANSARD ROOF FRAMING PLAN

SCALE : 3/16"=1'-0" | 1

1. 6" METAL STUD BTM CHORD PER 1/S4.2
2. 6x MTL STUD VERT @24" O.C. PER 6/S4.2
3. 6" METAL STUD TOP CHORD PER 1/S4.2
4. ROOF LINE @ FRONT OVERHANG
5. TYPICAL MOD-LINE

KEY NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME

120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK RICHARD WY
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
MARK PATRICK GOMEZ WY
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRANCISCO
No. 53367
STRUCTURAL
STATE OF CALIFORNIA
RST#23137

7/22/2022

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/22/22
PROJECT NO:	1657-21

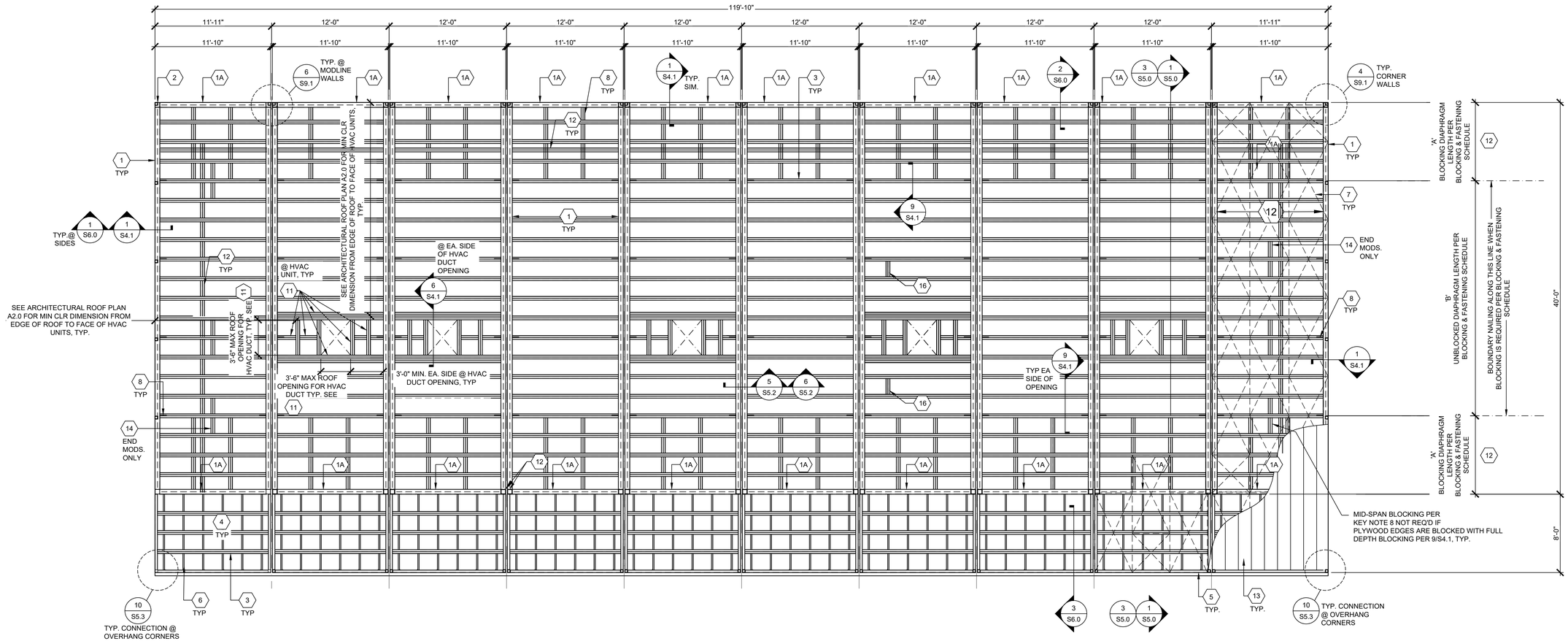
SHEET TITLE:

MANSARD
ROOF FRAMING PLAN

SHEET NUMBER:

S4.0A

G:\XXXXXX\4 - Shop\4 - DWF + RVT - SAVED 6/22/2022 9:17:54 AM PLOTTED: 7/21/2022 9:12 AM - Kevin.Reuter\Projects\1656-1658\1656-1658-1657-21 Santa Cruz City Schools, Gault ES\PRELIM\ARCH\DWG\Structural\S1.32 - 119x40_S4.0 - ROOF FRAG - Upper FLR.dwg



UPPER FLOOR - ROOF FRAMING PLAN

SCALE : 3/16"=1'-0"

1

1 LONGITUDINAL BEAM - REFER TO SHEETS S0.0 & S5.0 FOR SIZES

1A TRANSVERSE BEAM - REFER TO SHEETS S0.0 & S5.0 FOR SIZES

2 HSS COLUMN PER SHEET S5.0

2A NOT USED

3 'Z' FORMED OR "C" FORMED ROOF PURLINS @ 24" O.C. MAX
- REFER TO SHEET S0.0 FOR SIZES (USE 'C' PURLINS @ OPTIONAL SOLATUBE SKYLIGHT OPENINGS PER 15 BELOW)

4 TAPERED 20"-22" DEEP X 12GA FORMED OUTRIGGER CHANNEL @ 8'-0" MAX FRONT OVERHANG - REFER TO S0.0

5 UPPER FLOOR ROOF OVERHANG OUTRIGGER BEAM - SEE SCHEDULE ON S5.0

6 600S162-33 STEEL STUDS @ 24" O.C. @ UPPER ROOF OVERHANG SOFFIT, PER 3/S6.0. SEE 19(B)/S9.1 FOR STUD SECTION PROPERTIES.

7 23/32" APA RATED PLYWOOD OR OSB ROOF SHEATHING, C-D EXPOSURE 1, 32/16 SPAN RATING. PLYWOOD SHEATHING SHALL BE 5 PLY CONFORMING TO PS 1-09 OR PS 2-10. OSB SHEATHING SHALL CONFORM TO PRP-108 OR PS 2-10. ALL PLYWOOD OR OSB SHALL BE EDGE CLIPPED AT UNSUPPORTED EDGES. STAGGER SHEETS 48" O.C. AS SHOWN w/ FACE GRAIN PERPENDICULAR TO ROOF PURLINS, 2 SPANS MIN, 24" MIN. WIDTH. ALL BOUNDARY, EDGE & FIELD ATTACHMENTS SHALL BE 3/8" MIN. FROM EDGE OF PLYWOOD OR OSB & EDGE OF STEEL SUPPORTING MEMBER. REFER TO BLOCKING & FASTENING SCHEDULE FOR BLOCKING & FASTENING REQUIREMENTS.

ROOF FINISHES: SEE A2.0

NOTE: EDGE CLIP TO BE SIMPSON PSCL 3/4, 20 GA, OR EQUAL. (2) CLIPS PER 48" SPAN

ROOF PLYWOOD BLOCKING & FASTENING SCHEDULE			
	FASTENING	#10 OR #12 SDSTS'	0.144"Ø ET&F PINS[1]
'A' BLOCKED DIAPHRAGM @ MODULE ENDS[2]	'A' BLOCKED DIAPHRAGM LENGTH EA END OF EA MODULE	6'-0" MIN.	3'-0" MIN.
	BOUNDARY FASTENING[3]	4" O.C.	4" O.C.
	EDGE FASTENING	4" O.C.	4" O.C.
	FIELD FASTENING	12" O.C.	6" O.C.
'B' UNBLOCKED DIAPHRAGM @ MODULE INTERIOR	'B' UNBLOCKED DIAPHRAGM LENGTH @ MODULE INTERIOR	28'-0" MAX	34'-0" MAX
	BOUNDARY FASTENING[3]	6" O.C.	6" O.C.
	EDGE FASTENING	6" O.C.	6" O.C.
	FIELD FASTENING	12" O.C.	12" O.C.
FRONT & REAR ROOF OVERHANG (UNBLOCKED)	BOUNDARY FASTENING[3]	6" O.C.	6" O.C.
	EDGE FASTENING	6" O.C.	6" O.C.
	FIELD FASTENING	12" O.C.	12" O.C.

(1) ET&F PINS PER IAPMO UES EVALUATION REPORT ER-335. SDSTS PER ASTM C1513.

(2) PROVIDE BLOCKING PER 9/S4.1 OR 14/S4.1 w/ EDGE FASTENING AT ALL UNSUPPORTED PLYWOOD EDGES AT END BAYS OF ALL MODULES AS INDICATED ON ROOF PLAN AND SCHEDULE ABOVE.

(3) BOUNDARY FASTENING IS APPLIED TO PERIMETER OF ALL MODULES ALONG ALL FRAME LINES AND AT BOUNDARY BETWEEN BLOCKED & UNBLOCKED DIAPHRAGMS WHERE INDICATED ON ROOF PLAN.

8 BENT PLATE DIAGONAL BEAM BRACE. SEE DETAIL 1/S4.1 AT EXTERIOR SIDE WALL ROOF BEAMS & DETAILS 5&6/S5.2 AT INTERIOR MODLINE ROOF BEAMS. PROVIDE MID-SPAN PURLIN BLOCKING AT EACH BRACE AT END MODULES ONLY PER 14 BELOW.

9 NOT USED

10 NOT USED

11 PROVIDE DOUBLE PURLINS & BLOCKING PER 6, 9, 10 & 13/S4.1 @ HVAC UNIT (800# MAX), (1) HVAC UNIT PER MODULE MAX. LOCATE PER ROOF PLAN & PROVIDE 48" CLEAR MIN BETWEEN ALL DUCT & SKYLIGHT OPENINGS, TYP. SEE 15 FOR SKYLIGHT OPENINGS.

NOTE: DO NOT HEAD OFF MORE THAN ONE (1) ROOF PURLIN. MULTIPLE CONSECUTIVE ROOF PURLINS SHALL NOT BE INTERRUPTED UNO, SEE 13/S4.1.

12 BLOCKING PER 9/S4.1 OR 14/S4.1 w/ EDGE FASTENING AT ALL UNSUPPORTED PLYWOOD EDGES WHEN REQUIRED PER BLOCKING & FASTENING SCHEDULE.

13 MET-TILE @ MANSARD FOR ROOF FINISHES SEE A2.0

14 MID-SPAN PURLIN BLOCKING-WELD TO ROOF PURLINS PER 9/S4.1. BLOCKING IS ONLY REQUIRED AT END MODULES AT PURLINS WITH DIAGONAL BEAM BRACING @ EXTERIOR SIDE WALLS PER 8 ABOVE. PROVIDE BLOCKING EACH SIDE OF PURLIN AS SHOWN ON PLAN @ EDGE FASTEN ROOF SHEATHING TO BLOCKING PER FASTENING SCHEDULE.

15 PROVIDE SINGLE 'C' ROOF PURLNS AND 14ga ANGLE BLOCKING PER 7/S4.1 @ OPTIONAL 22" SQ. SOLATUBE SKYLIGHT OPENINGS. (4) SKYLIGHT OPENINGS PER MODULE MAX. LOCATE OPENINGS PER 7/S4.1 & PROVIDE 48" CLEAR MIN. BETWEEN ALL SKYLIGHT & DUCT OPENINGS, TYP. SEE 11 FOR HVAC DUCT OPENINGS.

16 BLOCKING FOR FIRE SPRINKER BRACE PER 13/FS-1

KEY NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME

120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

MANUFACTURER PROFESSIONAL OF RECORD

7/22/2022

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

1	
2	
3	
4	

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/22/22
PROJECT NO:	1657-21

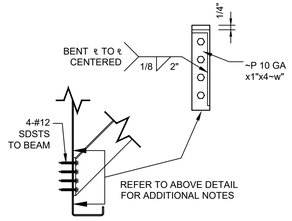
SHEET TITLE:

UPPER FLOOR
ROOF FRAMING PLAN

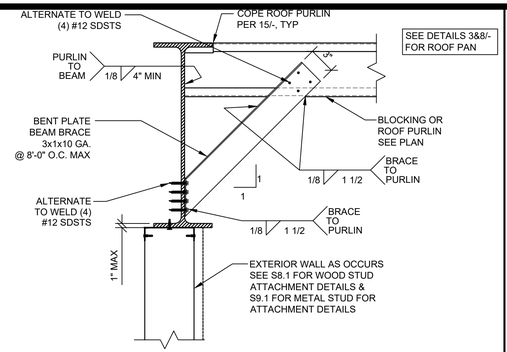
SHEET NUMBER:

S4.0

SLA XXXXX - 2 Story 48' - 22F x 48' - SAVED: 6/22/2022 9:16 AM - PLOTTED: 6/22/2022 9:16 AM - J:\Ams-Rd\Projects\1600-1699\1600-1699\1657-21 Santa Cruz City Schools Gault ES\PELMAN\PD\SD\Structural\S0 - 1 Shts\S - S4.1 - ROOF FRMG PLAN.dwg

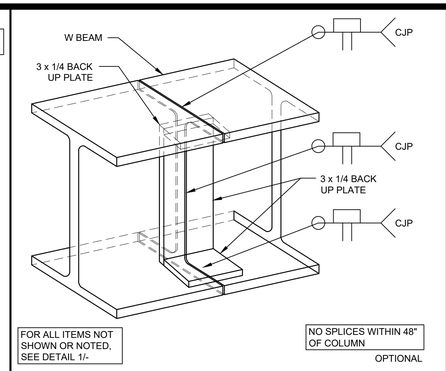


ALTERNATE CONNECTION @ BRACE TO ROOF CHANNEL



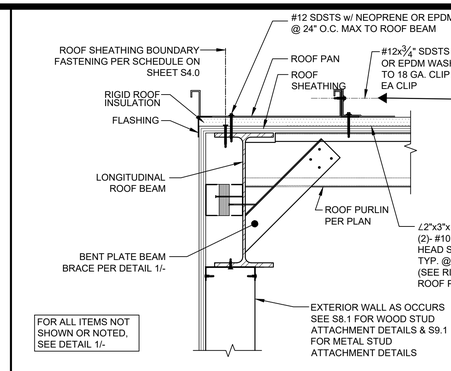
UPPER FLOOR PURLIN CONNECTION @ SIDEWALL

SCALE : 1 1/2"=1'-0" | 1



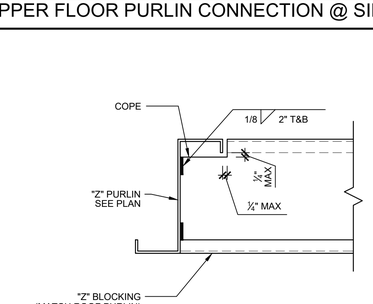
ROOF BEAM SPLICE DETAIL

SCALE : 1 1/2"=1'-0" | 1A

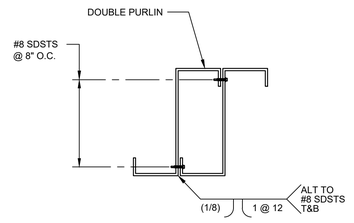


ROOF PAN DETAIL @ LONGITUDINAL ROOF BEAM

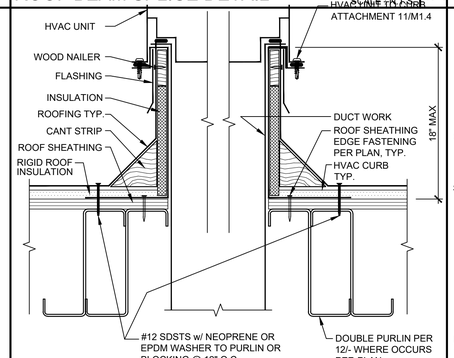
SCALE : 1 1/2"=1'-0" | 3



@ 'Z' PURLINS

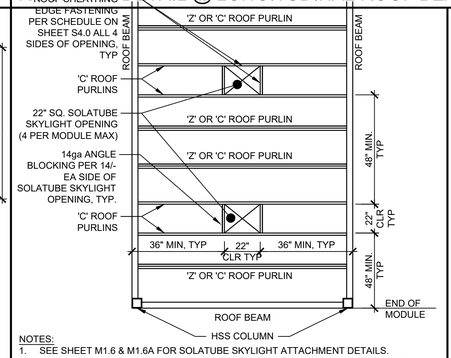


@ 'Z' PURLINS



HVAC CURB DETAIL

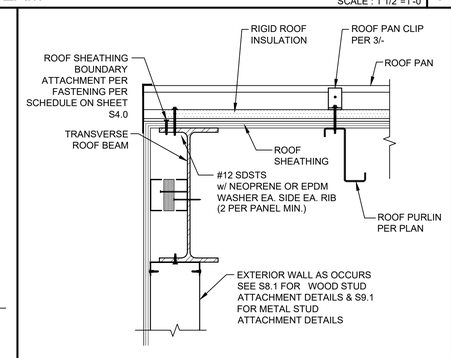
SCALE : 1 1/2"=1'-0" | 6



NOTES:
1. SEE SHEET M1.6 & M1.6A FOR SOLATUBE SKYLIGHT ATTACHMENT DETAILS.
2. PROVIDE 48" CLEAR MIN. BETWEEN ALL OPENINGS INCLUDING HVAC DUCT OPENINGS.

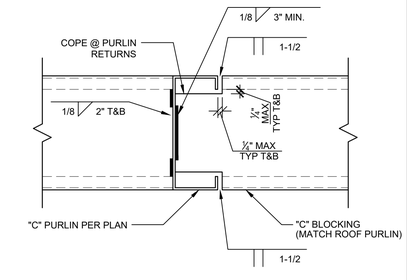
ROOF FRAMING AT SOLATUBE SKYLIGHT OPENINGS

SCALE : 1 1/2"=1'-0" | 7



ROOF PAN DETAIL @ TRANSVERSE ROOF BEAM

SCALE : N.T.S. | 8

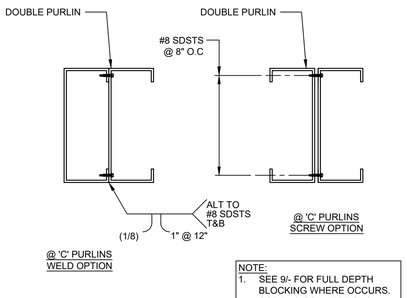


@ 'C' PURLINS

NOTE:
SIMILAR @ ROOF BEAMS.

TYPICAL FULL- DEPTH BLOCKING DETAIL

SCALE : 1 1/2"=1'-0" | 9



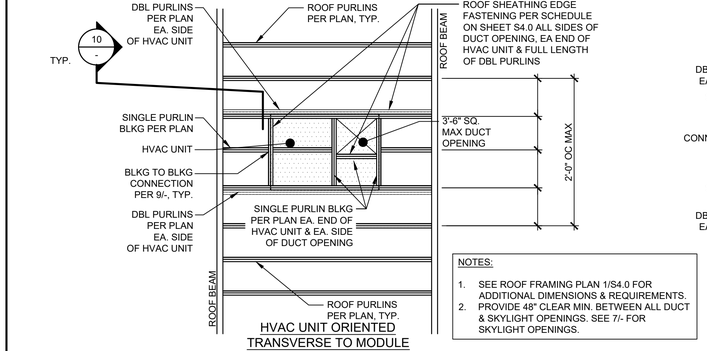
@ 'C' PURLINS WELD OPTION

@ 'C' PURLINS SCREW OPTION

NOTE:
1. SEE 9/- FOR FULL DEPTH BLOCKING WHERE OCCURS.
2. SCREWS CONNECTIONS, BACK TO BACK WELDED CONNECTION, FRONT TO BACK OR BACK TO BACK.

DOUBLE PURLIN CONNECTION

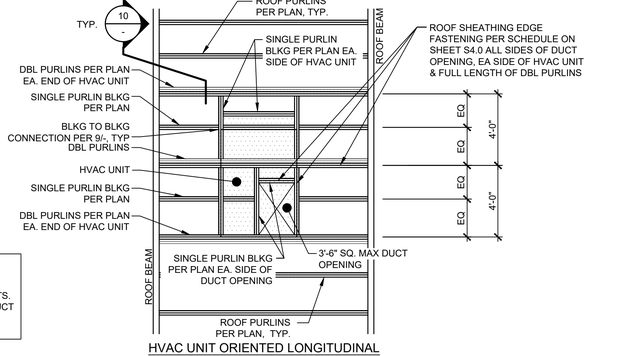
SCALE : 1 1/2"=1'-0" | 10



HVAC UNIT ORIENTED TRANSVERSE TO MODULE

(4'-0" MAX UNIT WIDTH. USE FRAMING FOR HVAC UNIT ORIENTED LONGITUDINAL TO MODULE FOR UNITS WIDER THAN 4'-0")

NOTES:
1. SEE ROOF FRAMING PLAN 1/S4.0 FOR ADDITIONAL DIMENSIONS & REQUIREMENTS.
2. PROVIDE 48" CLEAR MIN. BETWEEN ALL DUCT & SKYLIGHT OPENINGS. SEE 7/- FOR SKYLIGHT OPENINGS.

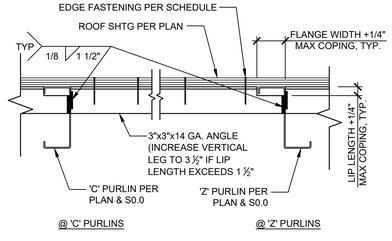


HVAC UNIT ORIENTED LONGITUDINAL TO MODULE

ROOF FRAMING AT ROOFTOP HVAC UNITS

SCALE : 1 1/2"=1'-0" | 13

1. THE MATERIAL THICKNESS OF LIGHT GAUGE STRUCTURAL MEMBERS, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED ON SHEET S0.0 THE MATERIAL GAGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.

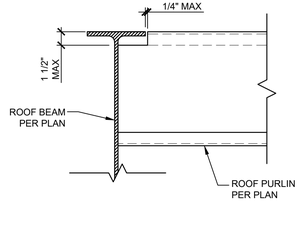


@ 'C' PURLINS @ 'Z' PURLINS

NOTE:
SIMILAR @ ROOF BEAMS.

TYPICAL ANGLE BLOCKING DETAIL

SCALE : 1 1/2"=1'-0" | 14



TYP ROOF PURLIN COPING DETAIL

SCALE : 1 1/2"=1'-0" | 15

GENERAL NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME

120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK RECORD
DUNBAR
C-41736
EXP. 03-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
THOMAS PATRICK CONNELLY
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRANCISCO
No. 53367
STRUCTURAL
STATE OF CALIFORNIA
RST#241137

7/22/2022

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

1	
2	
3	
4	

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

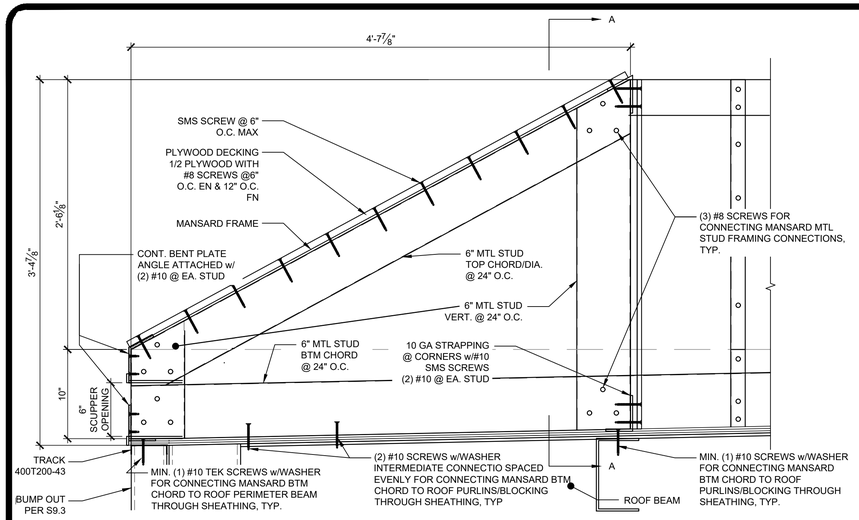
SHEET TITLE:

UPPER FLOOR
ROOF FRAMING
DETAILS

SHEET NUMBER:

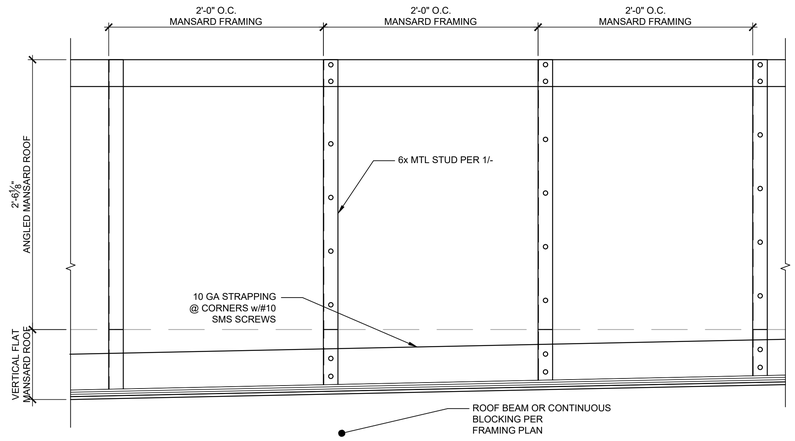
S4.1

©XXXXX - 3 Story 48' - 25ft 4.8" - SAVED: 6/2/2022 3:48 PM - PLOTTED: 6/7/2022 3:58 PM - M:\ams-fab\Projects\1657-21\Santa Cruz City Schools Gault ES\FIRE ALARM\CP\DWG\Structural\S4 - 1657-21 - ROOF CONN DET - UPPER FLOOR.dwg



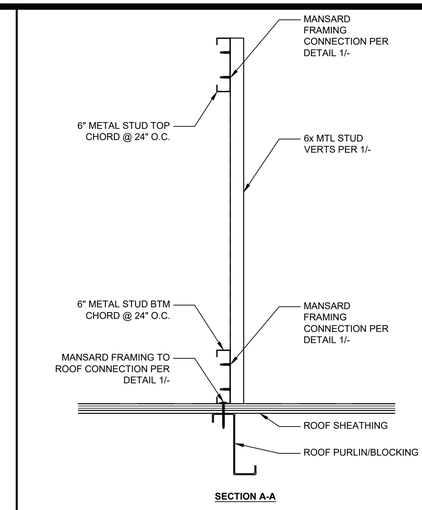
MANSARD @ REAR END WALL

SCALE : 1 1/2"=1'-0" | 1



MANSARD @ SIDEWALL (SIM. @ END WALL)

SCALE : 1 1/2"=1'-0" | 2

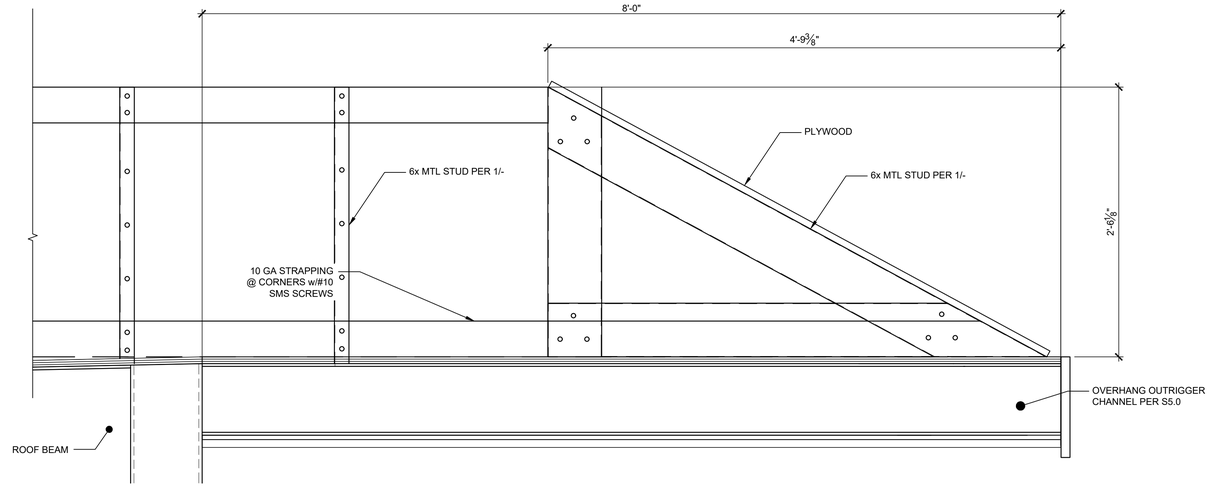


SECTION A-A

TYP. SECTION FOR MANSARD TO CONNECTION

SCALE : 1 1/2"=1'-0" | 6

NOTE: TYP MANSARD ATTACHMENT PER 1/-

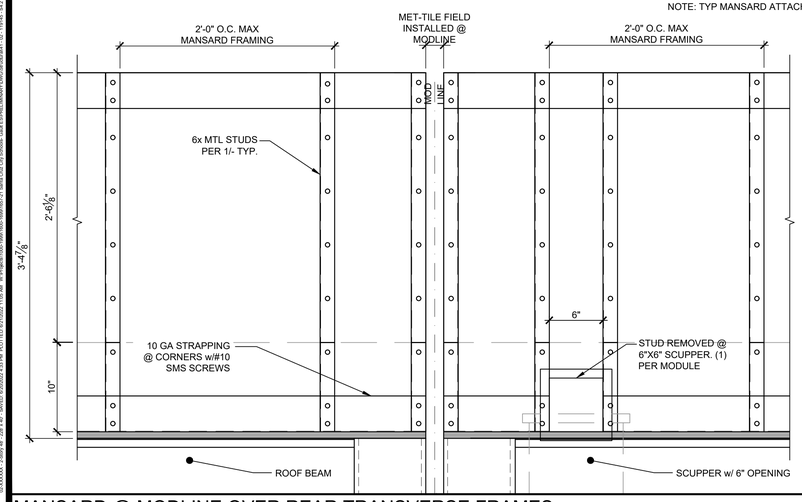


MANSARD @ FRONT END WALL

SCALE : 1 1/2"=1'-0" | 3

NOT USED

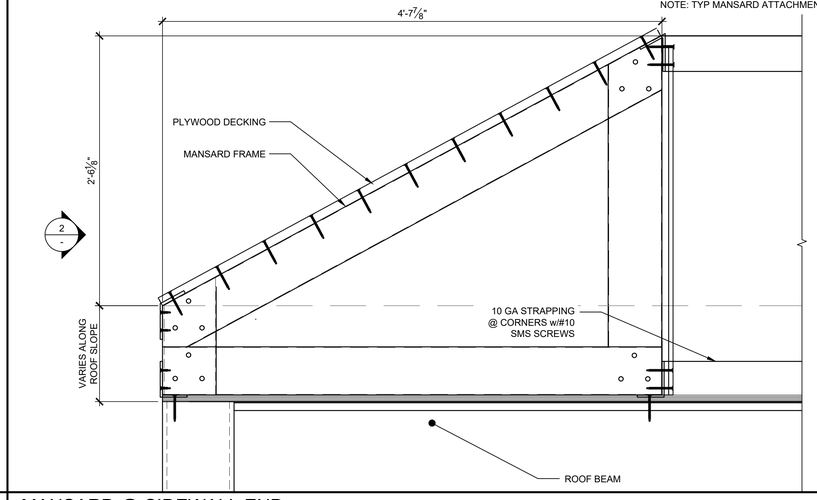
NOTE: TYP MANSARD ATTACHMENT PER 1/-



MANSARD @ MODLINE OVER REAR TRANSVERSE FRAMES

SCALE : 1 1/2"=1'-0" | 4

NOTE: TYP MANSARD ATTACHMENT PER 1/-



MANSARD @ SIDEWALL END

SCALE : 1 1/2"=1'-0" | 5

SHEET NOTES

NOTES:

1. NOT USED
2. ALL SELF-DRILLING, SELF-TAPPING SCREWS (SDSTS) SHALL COMPLY WITH w/ ASTM C1513.
3. MANSARDS ARE NOT PERMITTED AT INTERIOR MODLINE BEAMS.
4. SIMPSON A35-SD = SIMPSON A35 w/ #9 x 1½" SIMPSON SD SCREWS. SIMPSON A35 = SIMPSON A35 w/ 0.131"Ø x 1½" NAILS.
5. ON MANSARD FRAMING FOR 6" MTL STUD USE 600S162-43 OR EQUAL.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME

120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
ANDREW PATRICK O'SHEA
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
ANDREW PATRICK O'SHEA
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
MANNY D. PARRA
No. S3387
STRUCTURAL
STATE OF CALIFORNIA
REST#21137

7/22/2022

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

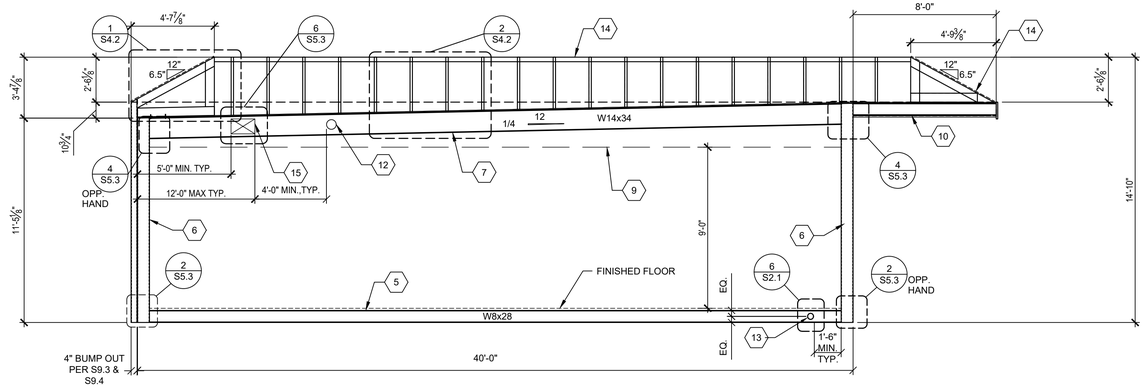
SHEET TITLE:

MANSARD FRAMING
WOOD FRAMED
DETAILS

SHEET NUMBER:

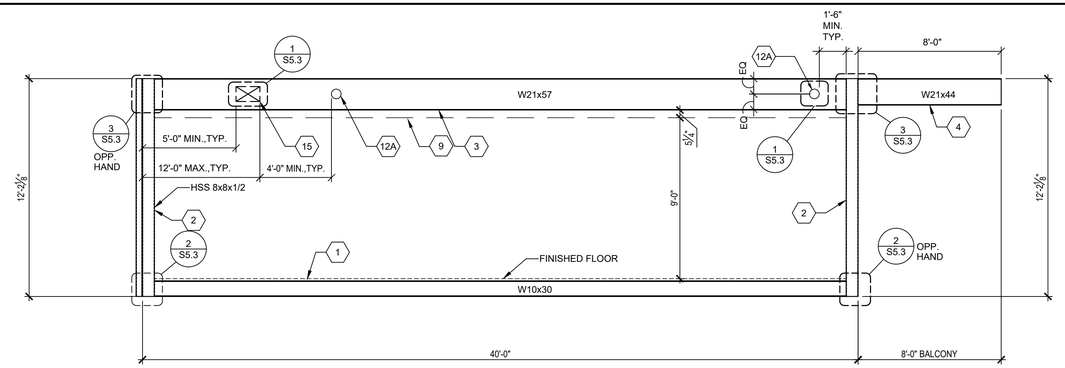
S4.2

G:\AXXXX 2-Docs \# 238 \=P, SAVED: 6/20/2022 4:43 PM PLOTTED: 6/21/2022 11:05 AM BY:Rogelio1399 1399 ISO 9001\2013 Santa Cruz City Schools Gault ES\PRELIM\ARCH\Dbl-mod\A1 - S2 - 1944 - S4.2 - MANSARD FRAMING.dwg



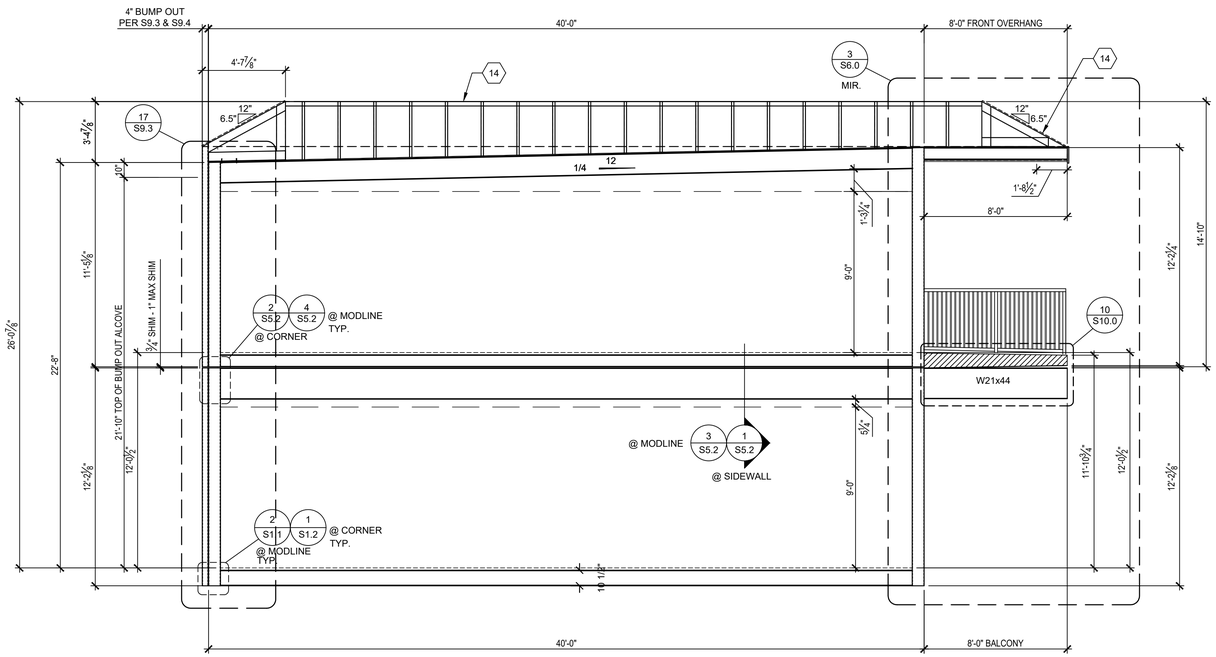
UPPER FLOOR LONGITUDINAL FRAME ELEVATION

SCALE:1/4"=1'-0" | 1



GROUND FLOOR LONGITUDINAL FRAME ELEVATION

SCALE:1/4"=1'-0" | 2



LONGITUDINAL BUILDING ELEVATION

SCALE:1/4"=1'-0" | 3

NOT USED | 3B

1. GROUND FLOOR FLOOR BEAM - SEE SCHEDULE BELOW
2. ASTM A1085 GROUND FLOOR HSS COLUMN - SEE SCHEDULE BELOW
3. GROUND FLOOR ROOF BEAM - SEE SCHEDULE BELOW
4. GROUND FLOOR ROOF OVERHANG OUTRIGGER BEAM - SEE SCHEDULE BELOW
5. UPPER FLOOR FLOOR BEAM - SEE SCHEDULE BELOW
6. ASTM A1085 UPPER FLOOR HSS COLUMN - SEE SCHEDULE BELOW
7. UPPER FLOOR ROOF BEAM - SEE SCHEDULE BELOW
8. OPTIONAL 3'-0" MAX PARAPET- SEE SHEETS S4.2-S4.5 FOR DETAILS (NOTE: PARAPETS NOT PERMITTED AT INTERIOR MODLINE BEAMS)
9. CEILING LINE- SEE MECHANICAL
10. UPPER FLOOR ROOF OVERHANG OUTRIGGER BEAM - SEE SCHEDULE BELOW
10A. TAPERED 6 1/2"-7" DEEP x12GA UPPER FLOOR FORMED OVERHANG OUTRIGGER CHANNEL - REFER TO S0.0 FOR SIZE & PROPERTIES
11. HSS 3 1/2x3 1/2x1/4 OPTIONAL PARAPET COLUMN @ 8'-0" O.C. MAX SEE SHEETS S4.2-S4.5 FOR DETAILS (NOTE: PARAPETS NOT PERMITTED AT INTERIOR MODLINE BEAMS)
12. 6"Ø MAX OPENING IN WEB OF UPPER FLOOR ROOF BEAM WITHOUT WEB REINFORCING SPACE HOLES @ 48" O.C. MIN. HOLE MAY OCCUR @ ANY LOCATION ALONG LENGTH OF ROOF BEAM EXCEPT AS NOTED OTHERWISE ON FRAMING ELEVATION & DETAIL 8/S5.3.
    NOTE: IF HOLES ARE 3"Ø OR LESS, THEY MAY BE SPACED @ 24" O.C. MIN. w/ NO REINFORCEMENT REQUIRED
12A. 8"Ø MAX OPENING IN WEB OF GROUND FLOOR ROOF BEAM WITHOUT WEB REINFORCING SPACE HOLES @ 48" O.C. MIN. HOLE MAY OCCUR @ ANY LOCATION ALONG LENGTH OF ROOF BEAM EXCEPT AS NOTED OTHERWISE ON FRAMING ELEVATION & DETAIL 8/S5.3.
    NOTE: IF HOLES ARE 4"Ø OR LESS, THEY MAY BE SPACED @ 24" O.C. MIN. w/ NO REINFORCEMENT REQUIRED
13. 4" Ø MAX OPENING IN WEB OF FLOOR BEAM WITHOUT WEB REINFORCEMENT PER DETAIL 6/S2.1 SPACED @ 48" O.C. MIN. HOLES MAY OCCUR @ ANY LOCATION ALONG LENGTH OF FLOOR BEAM EXCEPT AS NOTED OTHERWISE ON FRAMING ELEVATION. NOTE: IF HOLES ARE 2"Ø OR LESS, THEY MAY BE SPACED @ 24" O.C. MIN.
14. MANSARD ROOF PER S4.2
15. OPTIONAL OPENING IN GROUND OR UPPER FLOOR ROOF BEAM, ONLY (1) OPENING ALLOWED AT EACH END OF BEAM, AND LOCATE EDGE OF OPENING 2" MIN AWAY FROM WEB OF ROOF PURLINS

KEY NOTES

UPPER FLOOR

FLOOR BEAMS	COLUMNS	ROOF BEAM	ROOF OVERHANG OUTRIGGER BEAM
W8x28	HSS 8x8x3/8 (ASTM A1085)	W14x34	W8x13

GROUND FLOOR

FLOOR BEAMS	COLUMNS	ROOF BEAMS	ROOF OVERHANG OUTRIGGER BEAM
W10x30	HSS 8x8x1/2 (ASTM A1085)	W21x57	W21x44 MIN.

BEAM SPLICE DETAILS
FLOOR BEAMS: 3/S2.1
GROUND FLOOR ROOF BEAMS: 2/S3.1
UPPER FLOOR ROOF BEAMS: 1A/S4.1

NOTE:
SEE SHEET S0.0 FOR LIGHT GAUGE STEEL MEMBER PROPERTIES

FRAME MEMBER SCHEDULE | 3A

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT — MARY RECORD — No. C12631 — Ren. 8-31-23 — STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT — ROBERT PATRICK CLARK — No. C12631 — Ren. 8-31-23 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — JOHNNY D. PARKER — No. S3382 — STRUCTURAL — STATE OF CALIFORNIA — RSTR21137

7/22/2022

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

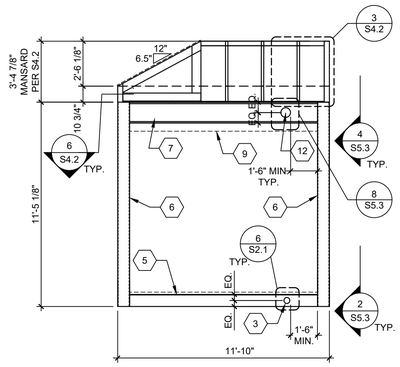
REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/22/22
PROJECT NO:	1657-21

SHEET TITLE:
TRANSVERSE BUILDING SECTION

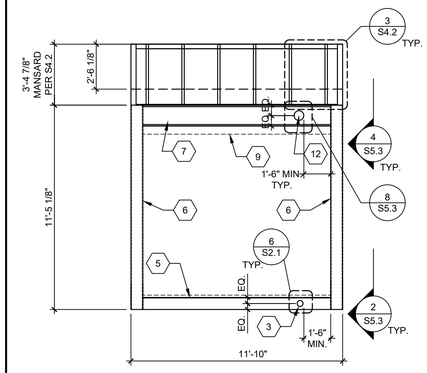
SHEET NUMBER:
S5.0

G:\XXXXX - 3 Story 48' - 22ft x 48' - SAVED - 6/22/2022 9:16 AM - PLOTTED 6/22/2022 9:16 AM - I:\ams-fs01\ams\Projects\900-999\999-999\999-21 Santa Cruz City Schools - Gault ES\RFE_MANUFACTURER\Structural\01 - S5 - Transv Frame ELEV - LONG.dwg



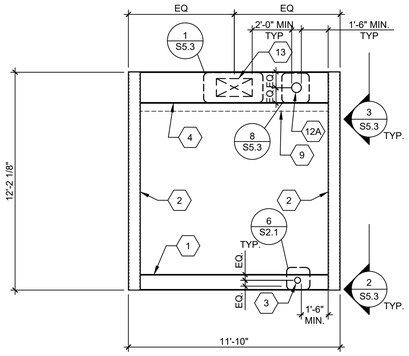
TYPICAL END FRAME SECTION UPPER FLOOR AT PERIMETER MODULE

SCALE: 1/4" = 1' - 0" | 1



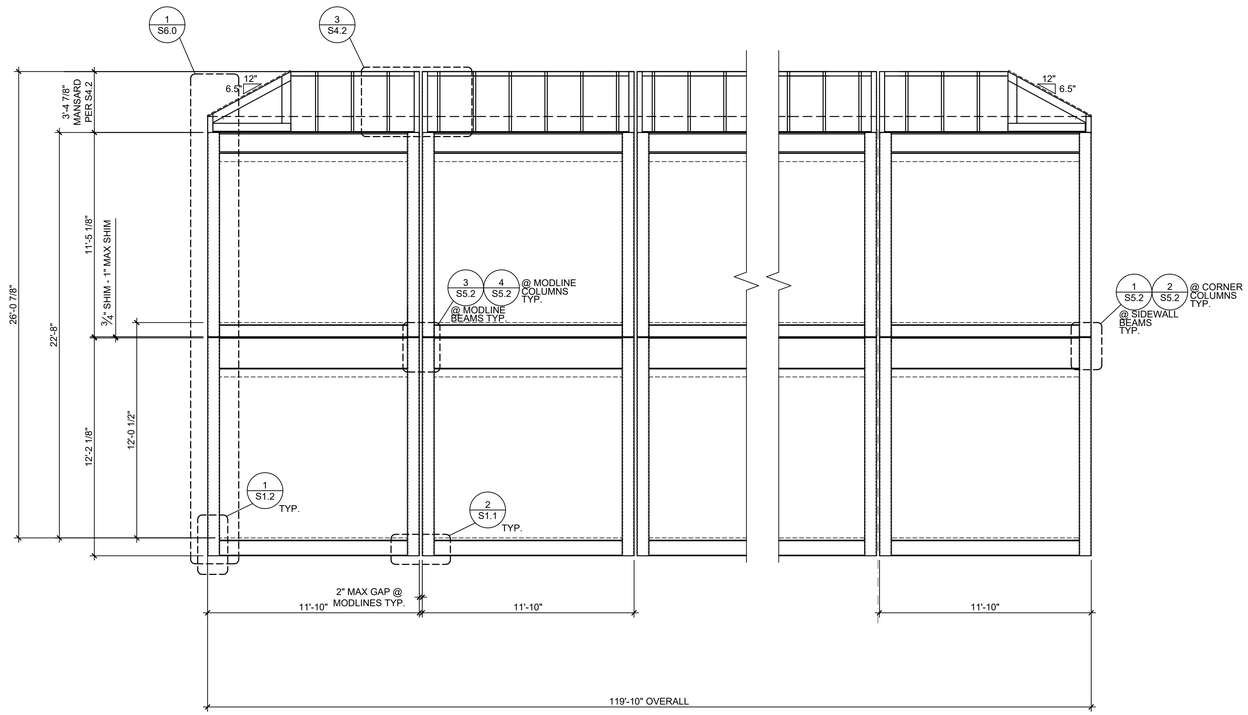
TYPICAL END FRAME SECTION UPPER FLOOR AT CENTER MODULE

SCALE: 1/4" = 1' - 0" | 1A



TYPICAL END FRAME SECTION GROUND FLOOR

SCALE: 1/4" = 1' - 0" | 2



TRANSVERSE FRONT / REAR ELEVATION

SCALE: 1/4" = 1' - 0" | 3

KEY NOTES

1. GROUND FLOOR FLOOR BEAM - SEE SCHEDULE SHEET S5.0
2. ASTM A1085 GROUND FLOOR HSS COLUMN - SEE SCHEDULE SHEET S5.0
3. 4"Ø MAX OPENING IN WEB OF FLOOR BEAM WITHOUT WEB REINFORCEMENT PER DETAIL 6/S2.1 SPACED @ 48" O.C. MIN. HOLES MAY OCCUR @ ANY LOCATION ALONG LENGTH OF FLOOR BEAM EXCEPT AS NOTED OTHERWISE ON FRAMING ELEVATION.

   NOTE: IF HOLES ARE 2" Ø OR LESS, THEY MAY BE SPACED @ 24" O.C. MIN.
4. GROUND FLOOR ROOF BEAM - SEE SCHEDULE SHEET S5.0
5. UPPER FLOOR FLOOR BEAM - SEE SCHEDULE SHEET S5.0
6. ASTM A1085 UPPER FLOOR HSS COLUMN - SEE SCHEDULE SHEET S5.0
7. UPPER FLOOR ROOF BEAM - SEE SCHEDULE SHEET S5.0
8. OPTIONAL 3'-0" MAX PARAPET SEE SHEETS S4.2-S4.5 FOR DETAILS
9. CEILING LINE - SEE MECHANICAL
10. NOT USED
11. HSS 3 1/2x3 1/2x1/4" OPTIONAL PARAPET COLUMN SEE SHEETS S4.2 - S4.5 FOR DETAILS
12. 6"Ø MAX OPENING IN WEB OF UPPER FLOOR ROOF BEAM WITHOUT WEB REINFORCING SPACE HOLES @ 48" O.C. MIN. HOLE MAY OCCUR @ ANY LOCATION ALONG LENGTH OF ROOF BEAM EXCEPT AS NOTED OTHERWISE ON FRAMING ELEVATION & DETAIL 8/S5.3.

    NOTE: IF HOLES ARE 3"Ø OR LESS, THEY MAY BE SPACED @ 24" O.C. MIN. w/ NO REINFORCEMENT REQUIRED
12A. 8"Ø MAX OPENING IN WEB OF GROUND FLOOR ROOF BEAM WITHOUT WEB REINFORCING. SPACE HOLES 48" OC MIN. HOLE MAY OCCUR @ ANY LOCATION ALONG THE LENGTH OF ROOF BEAM EXCEPT AS NOTED OTHERWISE ON FRAMING ELEVATION & DETAIL 8/S5.3.

    NOTE: IF HOLES ARE 4"Ø OR LESS, THEY MAY BE SPACED @ 24" O.C. MIN. w/ NO REINFORCEMENT REQUIRED
13. OPTIONAL OPENING IN GROUND FLOOR ROOF BEAM PER 1/S5.3. ONLY (1) OPENING PER FRAME.
14. OPTIONAL FIELD INSTALLED PARAPET EXTENSION- SEE SHEETS S4.3 OR S4.5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME

120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK RICHARD DAY
RENEWAL 08/31/2023
No. C-12138
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
KEVIN PATRICK CONNOLLY WELCH
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
JOHNNY D. PHAM
No. 53385
STRUCTURAL
STATE OF CALIFORNIA
RE17#21137

7/22/2022

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

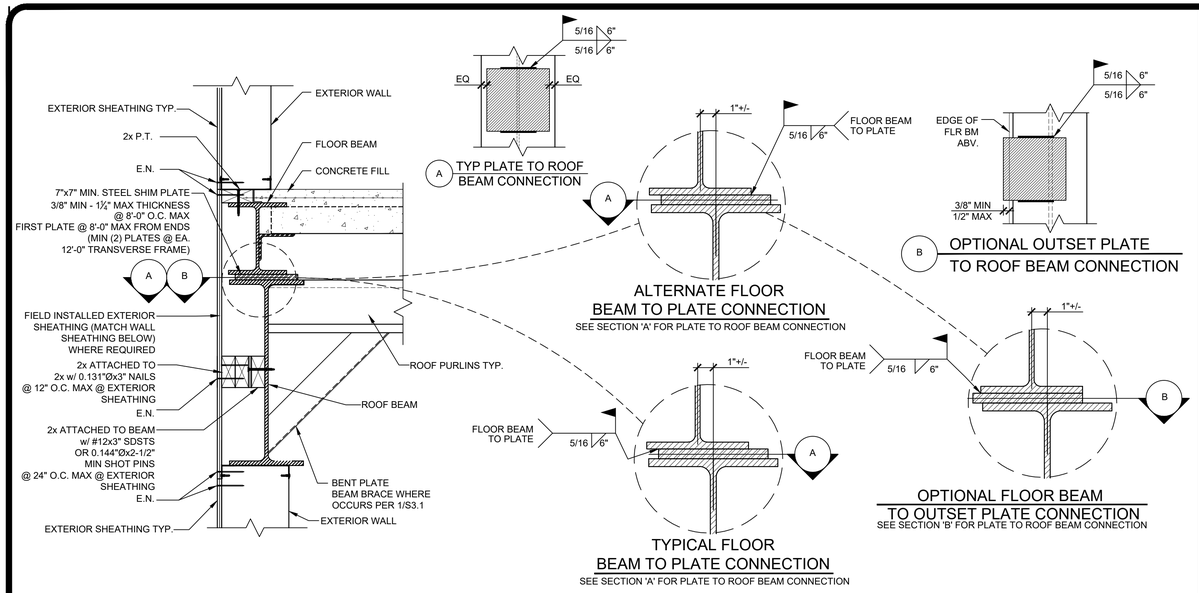
SHEET TITLE:

LONGITUDINAL BUILDING SECTION

SHEET NUMBER:

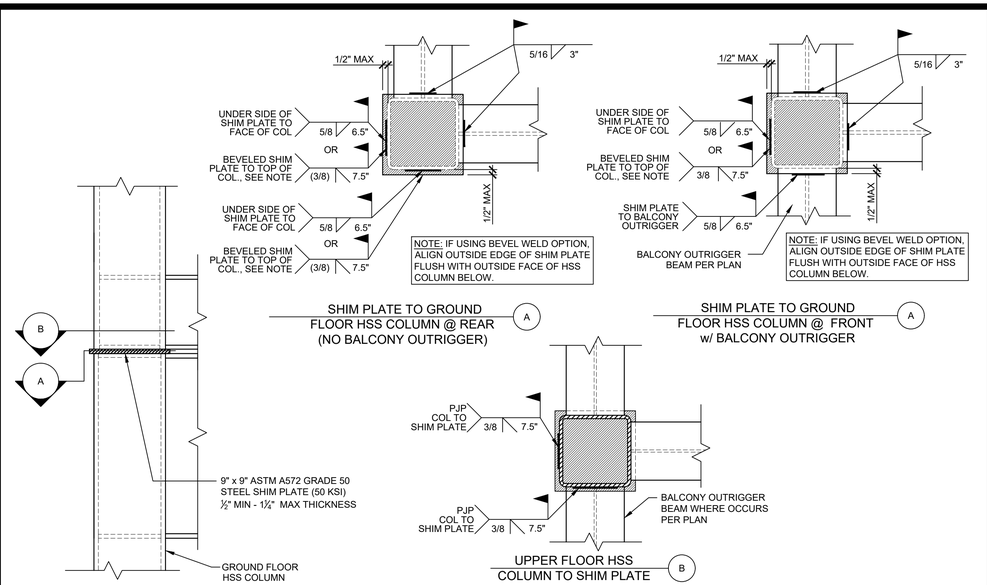
S5.1

EXAMPLE - 2-Story.rvt - 238 mi² - SHEET: S5A2022 | 11:07 AM - W:\Projects\000-099\000-099\000-024 Santa Cruz City Schools - Gault ELEMENTARY\CW\DWG\Arch\A000 - S2 - 119149 - S5.1 - Modified Frame ELEV - TRANSVERSE.dwg



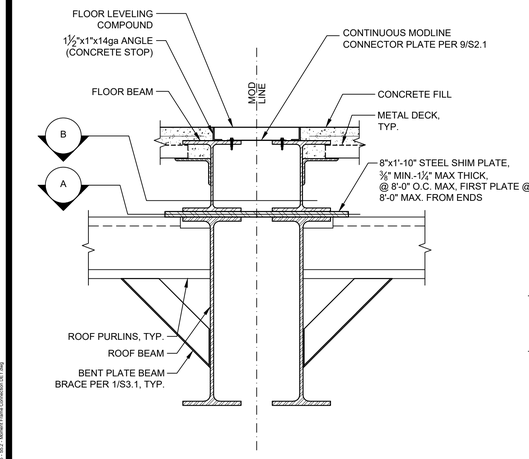
UPPER FLOOR TO GROUND FLOOR CONNECTION @ BUILDING PERIMETER (INTERMEDIATE POINTS BETWEEN COLUMNS)

SCALE : 1 1/2"=1'-0" | 1



TYPICAL CONNECTION UPPER FLOOR COLUMN TO GROUND FLOOR COLUMN @ CORNERS

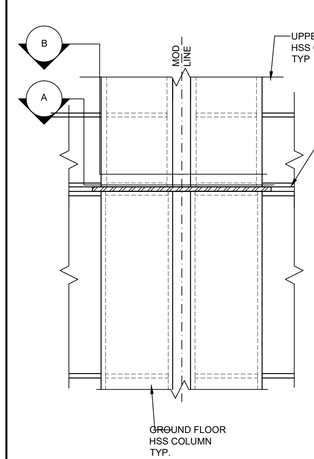
2

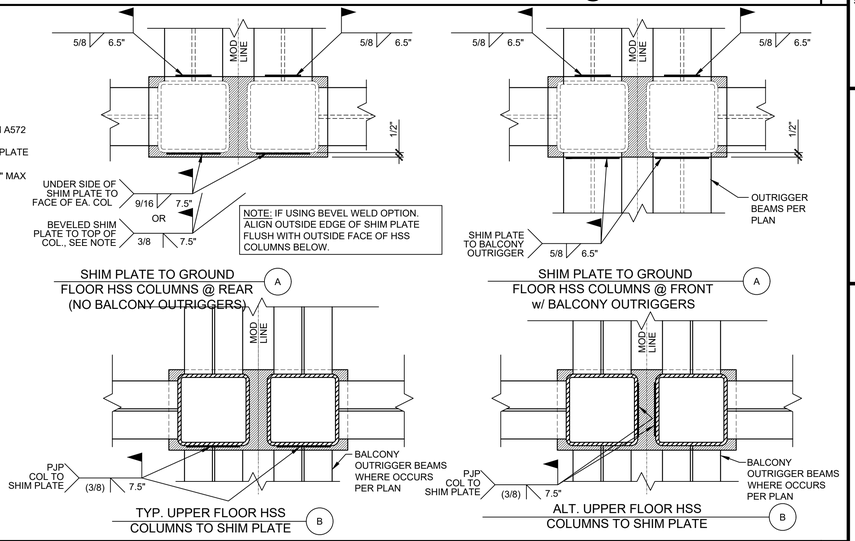


NOTE:
FIELD WELD FROM FLOOR BEAMS TO PLATE MAY BE BOTH ON THE INSIDE, BOTH ON THE OUTSIDE OR ONE INSIDE & THE OTHER OUTSIDE.

UPPER FLOOR TO GROUND FLOOR TYP. CONN @ MODLINES INTERMEDIATE POINTS

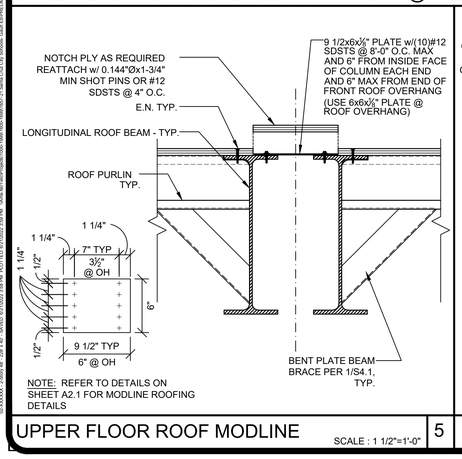
SCALE : 1 1/2"=1'-0" | 3





TYPICAL CONNECTION UPPER FLOOR COLUMN TO GROUND FLOOR COLUMN @ MODLINE

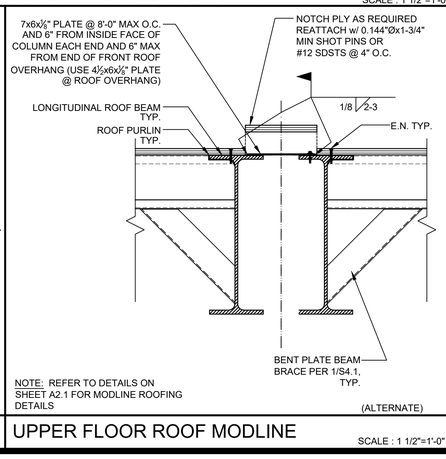
SCALE : 1 1/2"=1'-0" | 4



NOTE: REFER TO DETAILS ON SHEET A2.1 FOR MODLINE ROOFING DETAILS

UPPER FLOOR ROOF MODLINE

SCALE : 1 1/2"=1'-0" | 5



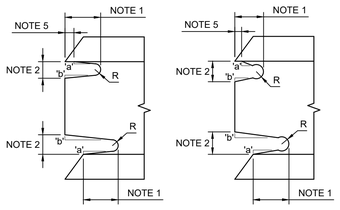
NOTE: REFER TO DETAILS ON SHEET A2.1 FOR MODLINE ROOFING DETAILS

(ALTERNATE)

UPPER FLOOR ROOF MODLINE

SCALE : 1 1/2"=1'-0" | 6

1. FILLER METALS SHALL CONFORM TO THE REQUIREMENTS OF THE AISC SEISMIC PROVISIONS.
2. WELDING PROCEDURES SHALL BE IN ACCORDANCE WITH THE AISC SEISMIC PROVISIONS.
3. QUALITY CONTROL AND QUALITY ASSURANCE SHALL BE IN ACCORDANCE WITH THE AISC SEISMIC PROVISIONS.
4. WELD ACCESS HOLES SHALL BE IN ACCORDANCE WITH AISC 360-16, SECTION J1.6, AND SHALL BE CONSTRUCTED PER THE FOLLOWING DETAILS & NOTES.



WELD ACCESS HOLE GEOMETRY

NOTES: THESE ARE TYPICAL DETAILS FOR JOINTS WELDED FROM ONE SIDE AGAINST STEEL BACKING.

1) LENGTH: GREATER OF 1.5tw OR 1-1/2 IN. (38 MM)
2) HEIGHT: GREATER OF 1.0tw OR 3/4 IN. (19 MM) BUT NEED NOT EXCEED 2 IN. (50 MM)
3) R: 3/8 IN. MIN. (10 MM). GRIND THE THERMALLY CUT SURFACES OF WELD ACCESS HOLES IN HEAVY SHAPES AS DEFINED IN SECTIONS A3.1(c) AND (d) OF AISC 360-16.
4) SLOPE 'a' FORMS A TRANSITION FROM THE WEB TO THE FLANGE. SLOPE 'b' MAY BE HORIZONTAL.
5) THE BOTTOM OF THE TOP FLANGE IS TO BE CONTOURED TO PERMIT THE TIGHT FIT OF BACKING BARS WHERE THEY ARE TO BE USED.

THE WELDING PROCEDURE QUALIFICATION TEST RECORD AND WELDING PROCEDURE SPECIFICATION FOR THIS WELD SHALL BE PREPARED IN ACCORDANCE WITH AWS D1.1-15, D1.3-08 & D1.8-16 SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND SUBMITTAL TO THE D.S.A. TYPICAL ALL DETAILS SHEET S5.3. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT.-LBS AT ZERO DEGREES F, AS DETERMINED BY AWS CLASSIFICATION.

REQUIREMENTS FOR MOMENT CONNECTIONS

SCALE : NOT TO SCALE | 7

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT MARK T. RICHARD No. C12631 Ren. 3-31-23 STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT PATRICK GRAHAM No. C12631 Ren. 3-31-23 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER DANNY D. FRANKLIN No. 53367 STRUCTURAL STATE OF CALIFORNIA RST#21137

7/22/2022

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

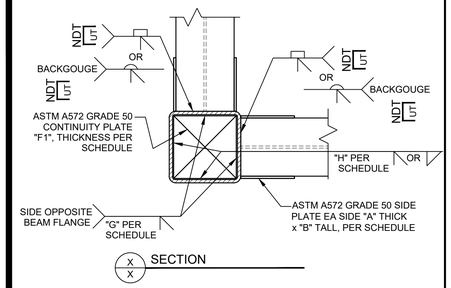
REVISIONS

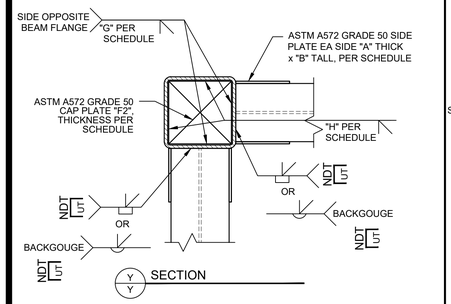
DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

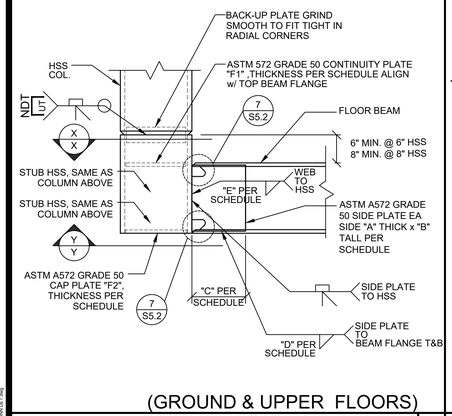
SHEET TITLE:
MOMENT FRAME CONNECTION DETAILS

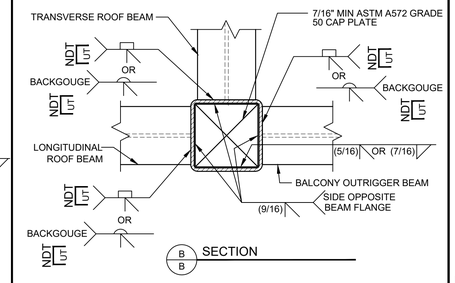
SHEET NUMBER:
S5.2

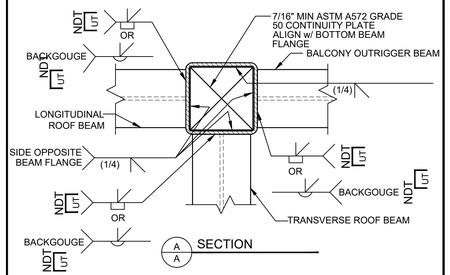
G:\XXXXXX - Jobs in AP - 2018 AP - SAVED - 6/7/2022 3:58 PM - PLOTTED 6/7/2022 3:58 PM - Area Mod\Projects\2020\ 2008-0008-0009\2021-21 Santa Cruz City Schools - Gault ELEMENTARY\MANUFACTURER\Gault-MF - S5.2 - Moment Frame Connection Det1.dwg

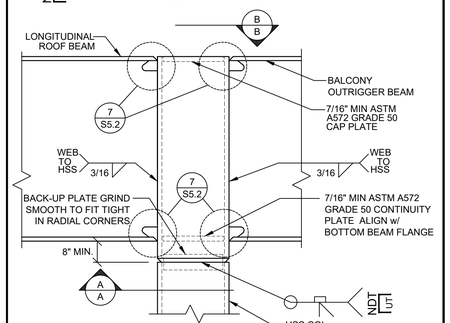


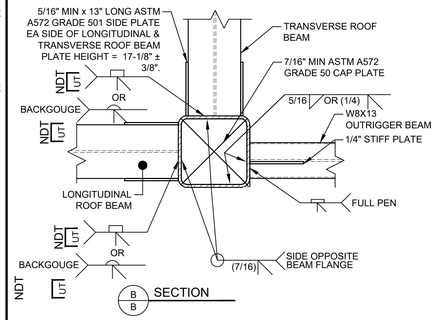


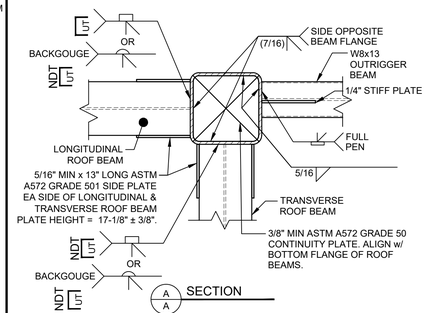


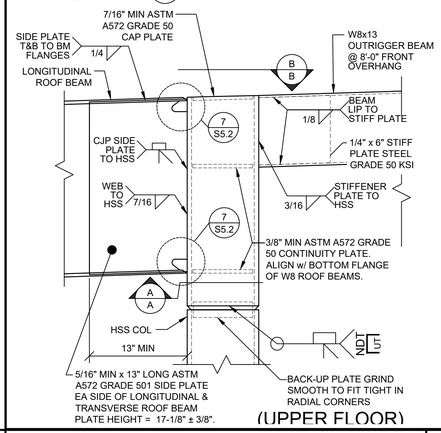


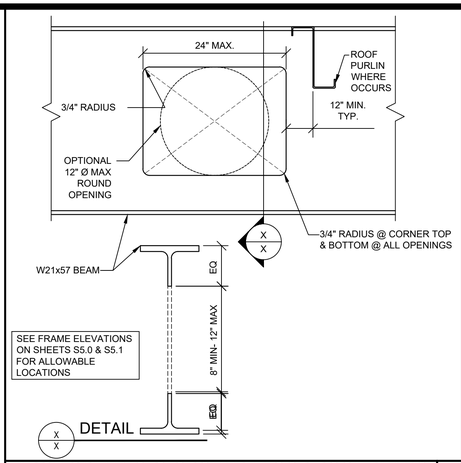


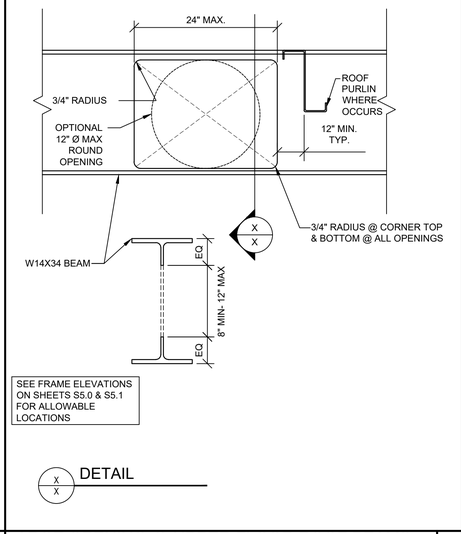








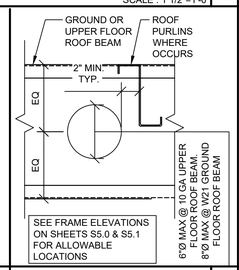




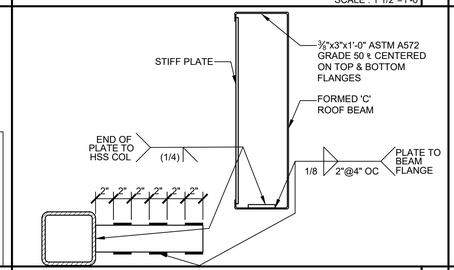
FLOOR BEAM TO COLUMN CONN. SCALE : 1 1/2"=1'-0"	2	ROOF BEAM TO COLUMN CONN. SCALE : 1 1/2"=1'-0"	3
ROOF BEAM TO COLUMN CONN. SCALE : 1 1/2"=1'-0"	4	NOT USED	5
LARGE OPENING @ GROUND FLOOR ROOF BEAMS SCALE : 1 1/2"=1'-0"	1	LARGE OPENING @ UPPER FLOOR ROOF BEAMS SCALE : 1 1/2"=1'-0"	6

NOTE:
1. FOR REQUIREMENT OF GENERAL WELDS & MOMENT CONNECTIONS SEE SHEET S5.2.
2. REFER TO NON-DESTRUCTIVE TESTING NOTES FOR NON-DESTRUCTIVE TESTING REQUIREMENTS.

GENERAL NOTES | 7



SMALL ROUND OPENINGS @ GROUND & UPPER FLOORS ROOF BEAMS | 8



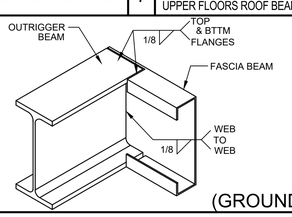
ROOF BEAM REINFORCING PLATE DETAIL | 8A

FLOOR BEAM MOMENT CONNECTION SCHEDULE

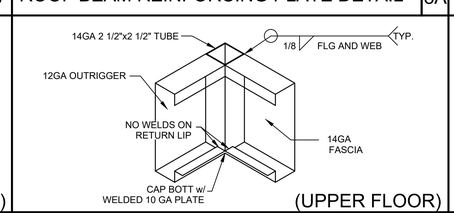
FLOOR	"A" MIN SIDE PLATE THICKNESS (IN)	"B" SIDE PLATE HEIGHT (1) (IN)	"C" SIDE PLATE LENGTH (IN)	"D" FILLET WELD SIDE PLATE TO BEAM FLANGES (IN)	"E" FILLET WELD BEAM WEB TO COLUMN FACE (IN)	"F" MIN. CONTINUITY PLATE & CAP PLATE THICKNESS(2) (IN)		CONTINUITY/CAP PLATE WELDING (IN) "G" OPPOSITE BEAM FLANGES (EFFECTIVE BEVEL WELD)	CONTINUITY/CAP PLATE WELDING (IN) "H" ALL OTHER SIDES (EFFECTIVE BEVEL WELD OPTION)
GROUND FLOOR	3/8	9-1/2 ± 3/8	12	5/16	1/4	"F1" CONTINUITY PLATE	1/2	(1/2)	(1/2)
						"F2" CAP PLATE	1/2	(1/2)	(1/2)
UPPER FLOOR	1/4	7-3/4 ± 3/8	11	3/16	3/16	"F1" CONTINUITY PLATE	3/8	(3/8)	(3/8)
						"F2" CAP PLATE	3/8	(3/8)	(3/8)

(1)SIDE PLATE HEIGHTS ARE ±3/8" TO ACCOMMODATE BEAM FLANGE TOLERANCES. BEAM TOLERANCES ALLOW FOR FLANGES TO BE 1/4" MAX OUT OF SQUARE.
(2)"F1" CONTINUITY PLATES ARE ALIGNED w/ TOP OF BEAM FLANGE THAT IS NOT AT THE OPEN END OF THE HSS COLUMN. "F2" CAP PLATES ARE ALIGNED w/ THE BOTTOM BEAM FLANGE AT THE OPEN END OF THE HSS COLUMN.

FLOOR BEAM MOMENT CONNECTION SCHEDULE



O.H. CORNER DETAIL SCALE : 1 1/2"=1'-0" | 9



OVERHANG CORNER DETAIL SCALE : 1 1/2"=1'-0" | 10

NON-DESTRUCTIVE TESTING OF COMPLETE JOINT PENETRATION (CJP) GROVE WELDS AT THE MOMENT-RESISTING BEAM-TO-COLUMN CONNECTIONS SHALL COMPLY WITH AISC 341-16 CHAPTER J PER CBC 1705A.2.1.

1. WELDS SUBJECT TO THE REQUIREMENTS OF NON-DESTRUCTIVE TESTING ARE NOTED WITH THE SYMBOL NDT UT.
2. ULTRASONIC TESTING (UT) SHALL BE PERFORMED ON 100% OF ALL DENOTED WITH THE SYMBOL NDT UT.
3. MAGNETIC PARTICLE TESTING (MT) SHALL BE PERFORMED ON 25% OF ALL WELDS REQUIRING NON-DESTRUCTIVE TESTING WHETHER OR NOT (UT) IS REQUIRED.
4. ULTRASONIC TESTING (UT) IS ONLY REQUIRED WHERE THE THICKNESS OF THE COLUMN IS 5/16" OR GREATER. UT IS NOT REQUIRED WHERE THE COLUMN THICKNESS IS LESS THAN 5/16". MAGNETIC PARTICLE TESTING (MT) IS STILL REQUIRED.
5. ULTRASONIC TESTING (UT) IS NOT REQUIRED ON WELDS FROM STRUCTURAL STEEL CHANNEL BEAM FLANGES TO COLUMNS AS UT TESTING IS NOT APPROPPRIATE FOR SECTIONS WITH VARYING DEPTHS. MAGNETIC PARTICLE TESTING (MT) IS STILL REQUIRED.

NON-DESTRUCTIVE TESTING NOTES | NOT USED | 11

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT MARK EDWARD SIERS C-40138 EXP. 08.31.23 STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT BRIAN PATRICK QUINN No. C12631 Ren. 3-31-23 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER DANNY D. FINLEY No. 53385 STRUCTURAL STATE OF CALIFORNIA REG/PE21137

7/22/2022

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

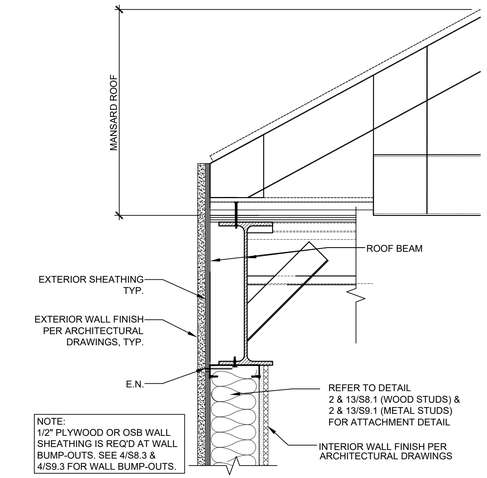
REVISIONS
1
2
3
4

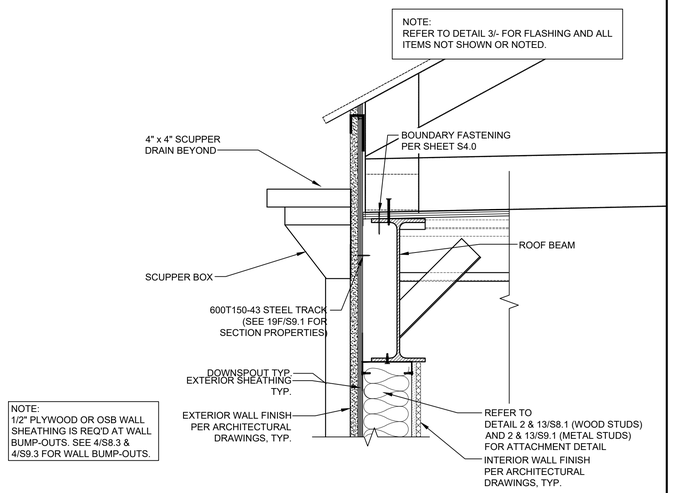
DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

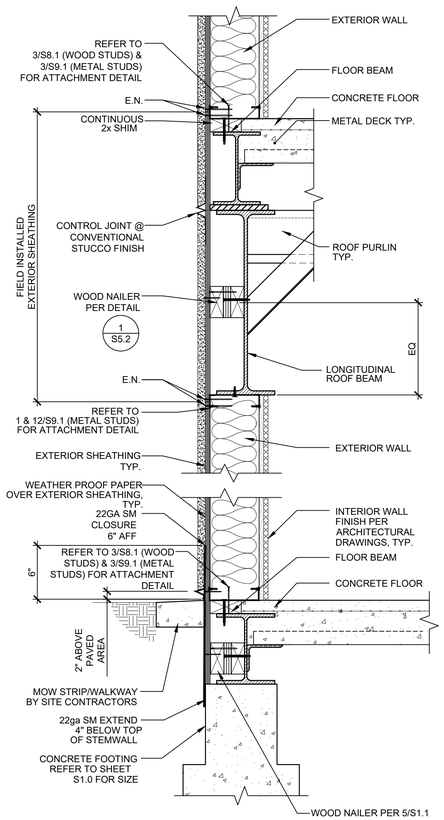
SHEET TITLE:
MOMENT FRAME CONNECTION DETAILS

SHEET NUMBER:
S5.3

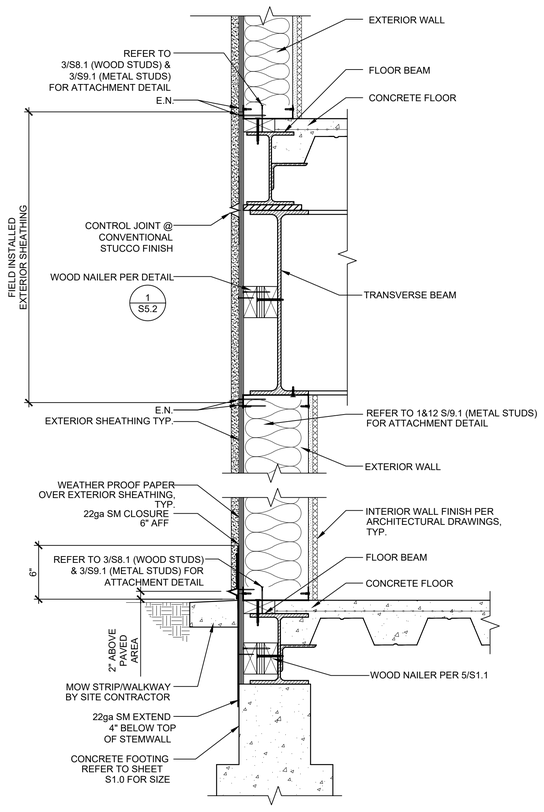
S:\XXXXX - 3-Docs 4F - 22F 4-5F - SHEET_SCHEDULE_DETAILS_NOTES_S5.3.dwg 8/26/2022 4:49 PM JNOTES 10/7/2021 11:49 AM W:\Projects\300-399\330-339\330-21 Santa Cruz City Schools Gault ES\PRELIM\ARCH\S5-xx.pdf 0 - 1/8"=1'-0" - 8.5 x 11 PRIME CONVERT.dwg



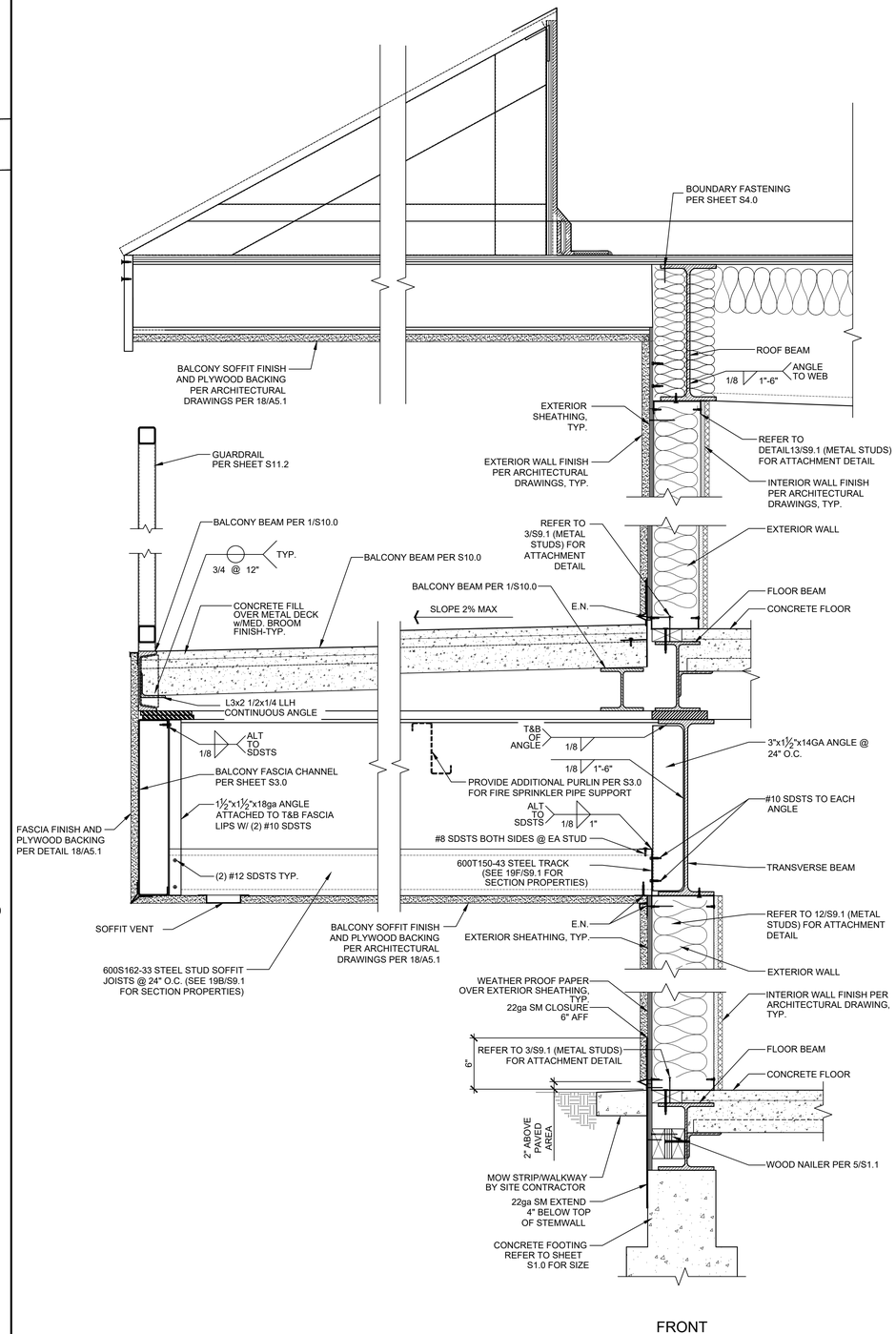




SIDE



REAR



FRONT

SIDE WALL SECTION	SCALE : 1 1/2"=1'-0"	1
REAR END WALL SECTION	SCALE : 1 1/2"=1'-0"	2
FRONT END WALL SECTION	SCALE : 1 1/2"=1'-0"	3

G:\XXXXX_2-Story 48' -20' x 40' GAVD_8-2022_10-02 AM_R-2\TITLE 8/2/2022 10:02 AM User:chad.thompson Date:8/2/2022 10:02 AM S:\Revit Files\Projects\2020_0088 SCE - GAVD\8-2-22 Santa Cruz City Schools - Gault ELEMENTARY SCHOOL_R2_10-02-22_CT.rvt 8/2/2022 10:02:38 AM

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT MARK EDWARD COX No. C-29138 STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT MARK PATRICK CARROLL No. C12631 Ren. 3-31-23 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER MANNY D. FARIAS No. 33382 STRUCTURAL STATE OF CALIFORNIA RST#21137

7/22/2022

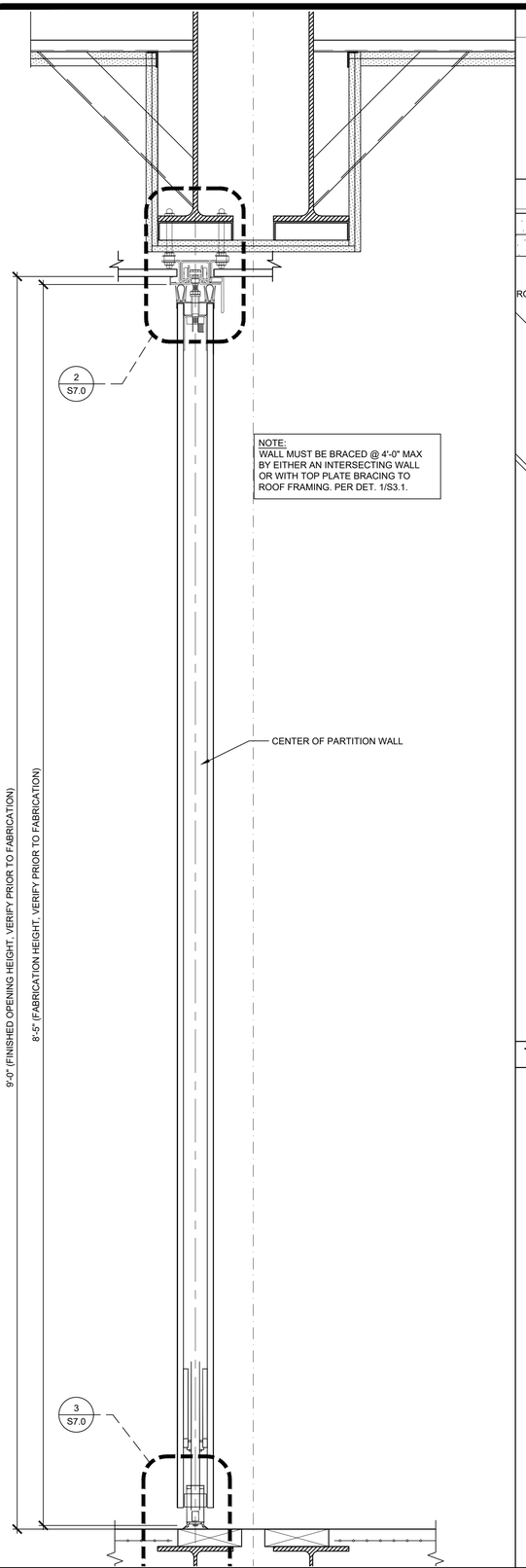
THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS
1
2
3
4

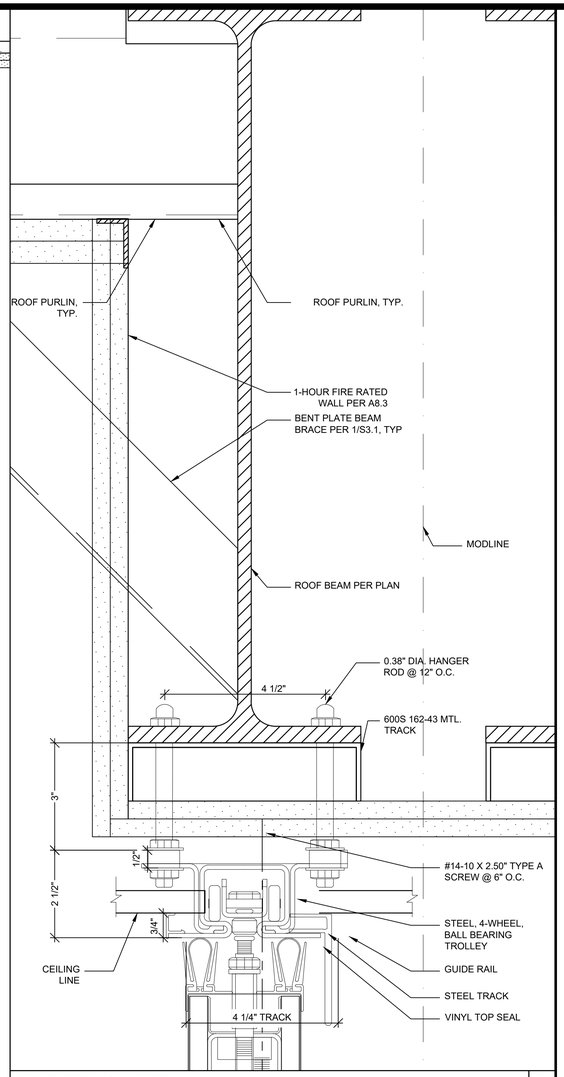
DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/22/22
PROJECT NO:	1657-21

SHEET TITLE:
BUILDING SECTIONS

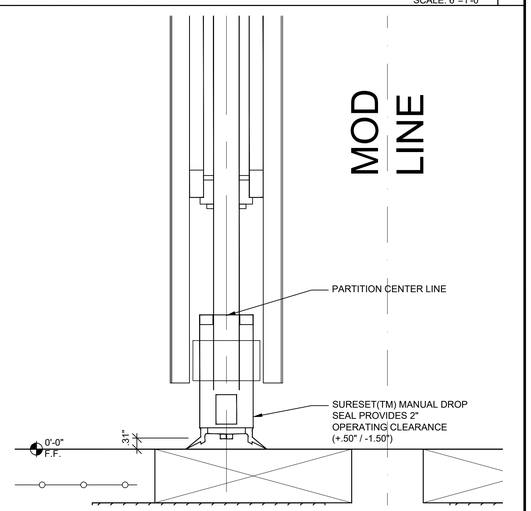
SHEET NUMBER:
S6.0



PARTITION WALL DETAIL SCALE: 2"=1'-0" A



TOP TRACK DETAIL SCALE: 6"=1'-0" 2



BOTTOM TRACK DETAIL SCALE: 6"=1'-0" 3

NOT USED SCALE: 2"=1'-0" 4

P:\Rfa_IN_PROJECTS\1600-1699\1650-1659\1657-21_GAULT_ESS_PREFUNWARY\DWG\STRUCTURAL\S3_1 — 02 — 1:1.pdf
2/7/22 10:40:44 AM jared.hagemann
C:\Users\jared.hagemann\Documents\1657-21_GAULT_ESS_PREFUNWARY_jared.hagemann.rvt

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
JARED RICHARD HAGEMANN
No. C-31359
Ren. 08-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
BRENDAN PATRICK O'DONNELL
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
JIMMY D. FINCH
No. S3380
STRUCTURAL
STATE OF CALIFORNIA
RST#21137

7/22/2022

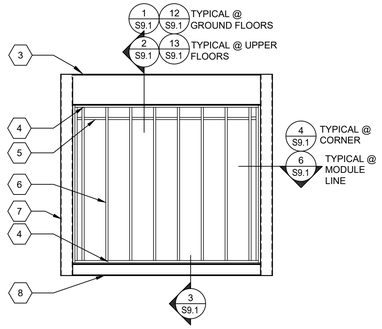
THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS
1
2
3
4

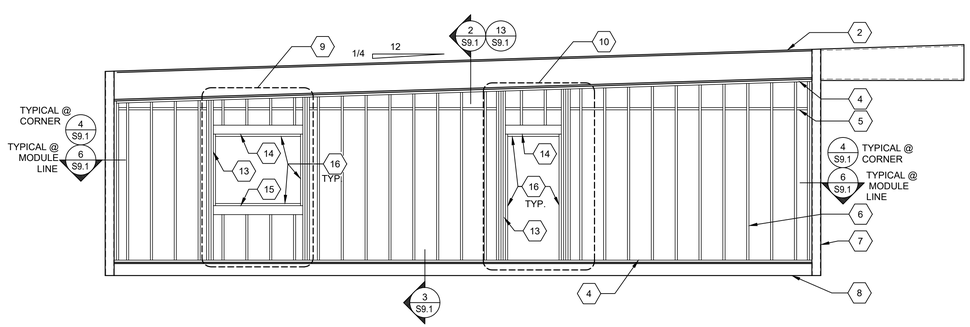
DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
FOLDING WALL ATTACHMENT

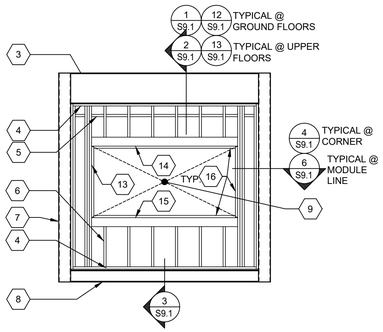
SHEET NUMBER:
S7.0



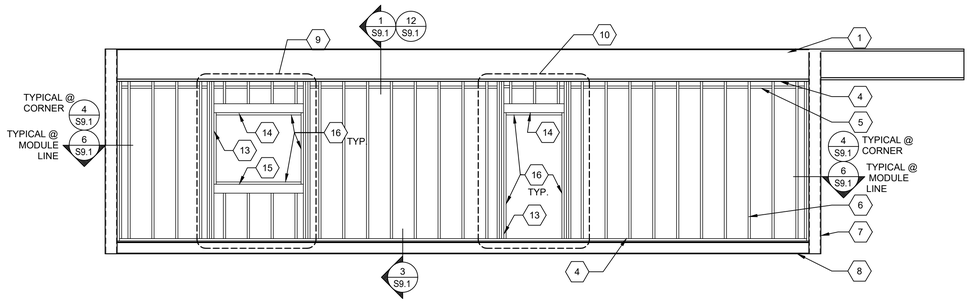
TYP. END WALL FRAMING w/ NO OPENINGS — SCALE : 1/4"=1'-0" — 1



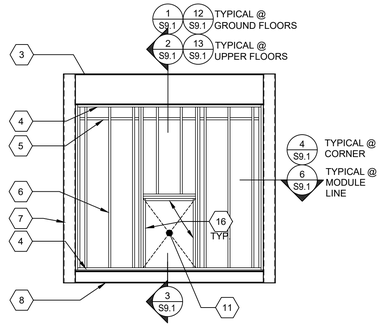
TYPICAL SIDE WALL FRAMING @ UPPER FLOOR — SCALE : 1/4"=1'-0" — 5



TYP. END WALL FRAMING w/ WINDOW — SCALE : 1/4"=1'-0" — 2

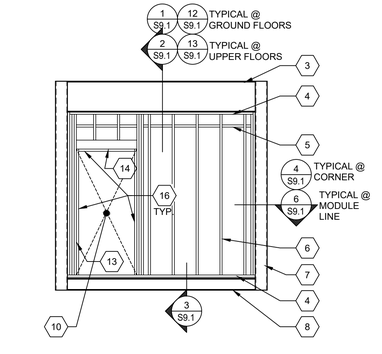


TYPICAL SIDE WALL FRAMING @ GROUND FLOOR — SCALE : 1/4"=1'-0" — 6



TYP. END WALL FRAMING w/ INDOOR HVAC UNIT — SCALE:1/4"=1'-0" — 3

NOT USED — SCALE:1/4"=1'-0" — 7



TYP. END WALL FRAMING w/ DOOR — SCALE : 1/4"=1'-0" — 4

NOT USED — SCALE : 1/4"=1'-0" — 8

EXTERIOR DOOR/WINDOW OPENINGS 6'-0" OR LESS						
	HEADER	ALTERNATE HEADER	WINDOW SILL	ALTERNATE WINDOW SILL	KING STUDS	ALTERNATE KING STUD
DETAIL	6/S9.2	11/S9.2	7/S9.2	12/S9.2	6/S9.2	11/S9.2

EXTERIOR DOOR/WINDOW OPENINGS GREATER THAN 6'-0" UP TO 10'-0"						
	HEADER	ALTERNATE HEADER	WINDOW SILL	ALTERNATE WINDOW SILL	KING STUDS	ALTERNATE KING STUD
DETAIL	1/S9.2	11/S9.2	2/S9.2	12/S9.2	1/S9.2	11/S9.2

INTERIOR DOOR/WINDOW OPENINGS						
	HEADER (6'-0" MAX OPENING)	ALTERNATE HEADER (10'-0" MAX OPENING)	WINDOW SILL (6'-0" MAX OPENING)	ALTERNATE WINDOW SILL (10'-0" MAX OPENING)	KING STUDS (6'-0" MAX OPENING)	ALTERNATE KING STUD (10'-0" MAX OPENING)
DETAIL	15/S9.2	11/S9.2	16/S9.2	12/S9.2	15/S9.2	11/S9.2

STUD/TRACK SCHEDULE				
	TYP. WALL STUDS	TYP TOP & BOTTOM TRACKS	WALL STUDS @ TYPICAL BUMP-OUT WALLS PER 17/S9.3	TOP & BOTTOM TRACKS @ TYPICAL BUMP-OUT WALLS PER 17/S9.3
EXTERIOR WALLS	600S162-33	600T150-43	600S162-43	600T150-43
	800S162-33	800T150-43	800S162-43	800T150-43
	1000S162-43	1000T150-43	1000S162-43	1000T150-43
INTERIOR WALLS WITHOUT WALL HUNG CABINETS (FLOOR MOUNTED OKAY)	362S125-30	362T125-30	-	-
INTERIOR WALLS WITH WALL HUNG CABINETS ON ONE SIDE OF WALL	362S125-43	362T125-30	-	-
	362S162-33	362T125-30	-	-
	600S162-33	600T150-43	-	-
INTERIOR WALLS WITH WALL HUNG CABINETS ON BOTH SIDES OF WALL	362S137-43	362T125-30	-	-
	600S162-33	600T150-43	-	-

NOTES:
1. SEE 19/S9.1 & 19/S9.3 FOR TYP STEEL STUD AND TRACK PROPERTIES. SEE THE STEEL STUD MANUFACTURERS ASSOCIATION PRODUCT TECHNICAL GUIDE PER ICC-ES EVALUATION REPORT ESR-3064P FOR ADDITIONAL STUD AND TRACK PROPERTIES. STUD AND TRACK SIZES ARE MINIMUM. LARGER STUDS AND TRACKS MAY BE USED FOR ARCHITECTURAL PURPOSES.
2. TOP & BOTTOM TRACKS SHALL BE 43 MILS (18 GA) MIN. @ EXTERIOR WALLS, 30 MILS (20GA.) MIN. @ INTERIOR WALLS UNO.
3. ALL STUDS AND TRACKS ARE 33 KSI, U.N.O.
4. ALL WALL STUDS SPACED AT 16" O.C. MAX U.N.O
5. AT WALL INTERSECTIONS, ATTACH END STUD TO CROSS WALLS (INCLUDING EXTERIOR WALLS) w/ #10 SDSTS @ 12" O.C. (ATTACH PER 4/S9.1 @ HSS COLMNS).
6. SEE 5/S9.1 FOR TYP STUD TO TRACK ATTACHMENT.
7. STUD AND TRACK DESIGNATIONS PER THE STEEL AND STUD MANUFACTURERS ASSOCIATION PRODUCT TECHNICAL GUIDE PER ICC-ES EVALUATION REPORT ESR-3064P.

STUD / TRACK AND DOOR / WINDOW OPENING SCHEDULES — SCALE : 1/4"=1'-0" — 19

1. LONGITUDINAL GROUND FLOOR ROOF BEAM
2. LONGITUDINAL UPPER FLOOR ROOF BEAM
3. TRANSVERSE ROOF BEAM
4. STEEL TRACK PER STUD/TRACK SCHEDULE 19/-
5. WALL BLOCKING PER 7/S9.1 @ HORIZONTAL PLYWOOD EDGES
6. STEEL STUDS PER STUD/TRACK SCHEDULE 19/- @ 16" O.C. TYP.
7. HSS COLUMN
8. PERIMETER FLOOR BEAM
9. OPTIONAL WINDOW OPENING MAX 12'-0" WIDE (REFER TO OPENING SCHEDULES 19/- FOR DETAILS AND FLOOR PLANS FOR LOCATIONS)
10. OPTIONAL DOOR OPENING (REFER TO OPENING SCHEDULES 19/- FOR DETAILS AND FLOOR PLANS FOR LOCATIONS)
11. 4'-0" x 4'-0" MAX HVAC OPENING REFER TO 6 & 7/S9.2 FOR OPENING DETAILS
12. NOT USED
13. KING STUD PER OPENING SCHEDULES 19/-
14. WINDOW/DOOR HEADER PER OPENING SCHEDULES 19/-
15. WINDOW SILL PER OPENING SCHEDULES 19/-
16. OPTIONAL 2x WOOD TRIMMER FOR ATTACHMENT OF WINDOW/DOOR FRAME. ATTACH TO METAL STUDS w/ #8 SDSTS @ 8" O.C. MAX. STAGGERED.
17. NOT USED
18. NOT USED
19. OPTIONAL FULL-WIDTH STOREFRONT OPENING (STOREFRONT BY OTHERS) MAX STORY DRIFT RATIO = 2.0%. MIN WIND LOAD CAPACITY = ±40 PSF (ULTIMATE).
20. HEADER @ OPTIONAL FULL-WIDTH STOREFRONT OPENING HSS 5x5x¼" MIN HEADER DIRECTLY ATTACHED TO HSS COLUMNS w/ ¼" FILLET WELD ALL AROUND.
21. STEEL TRACK PER 19/- w/#8x1" SDSTS SCREWS @ 16" O.C. TO HSS HEADER.

KEY NOTES

FINISH TYPE	FASTENER [1]	SPACING E.N.	SPACING F.N.
~~SYNTHETIC STUCCO (PER A5.6) o/ 5/8" CEMENT BOARD, o/ VAPOR BARRIER, o/ 1/2" PLYWOOD SHEATHING CONFORMING TO PS1-09, APA RATED, 5 PLY 32/16, OR 1/2" O.S.B. PANELS EXPOSURE 1.~~	~~#10 x1" BUGLE HEAD SDSTS~~	6" O.C.	12" O.C.
7/8" STUCCO (PER A5.0) o/ 1/2" PLYWOOD SHEATHING CONFORMING TO PS1-09, APA RATED, 5 PLY 32/16, OR 1/2" O.S.B. PANELS EXPOSURE 1.	#10 x1" BUGLE HEAD SDSTS	6" O.C.	12" O.C.
~~HYBRID STUCCO (PER 19/A5.7) o/ REINFORCING MESH o/ 5/8" CEMENT BOARD o/ VAPOR BARRIER~~	~~#10 x1" BUGLE HEAD SDSTS~~	6" O.C.	12" O.C.

1. ALL FASTENERS IN EXTERIOR APPLICATIONS SHALL BE GALVANIZED.
2. FOR ALL DETAILS REFERENCE A5.1

FINISH SCHEDULE — 20

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING
FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARY RICHARD KNOX
No. C-7139
REN. 08-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
JOHN PATRICK CONNOR
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FARAHANI
No. 53367
STRUCTURAL
STATE OF CALIFORNIA
RS1#241137

7/22/2022

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

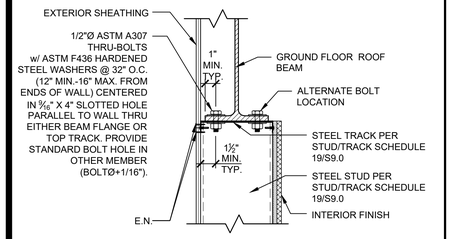
REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

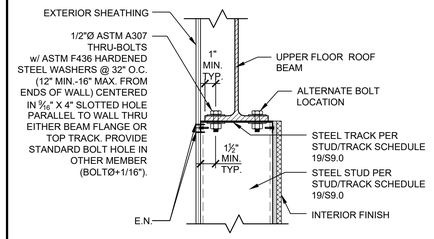
SHEET TITLE:
WALL FRAMING
ELEVATIONS
METAL STUDS

SHEET NUMBER:
S9.0

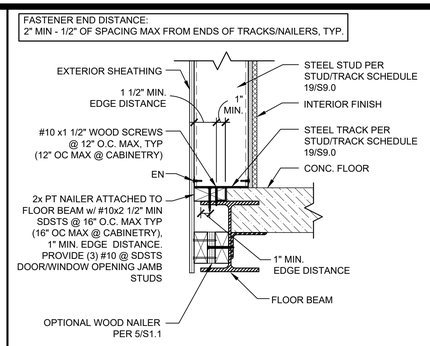
©XXXXX - 3 Story 48' - 20ft x 40' - SAVED: 6/1/2022 3:56 AM - M:\Projects\000-099\000-099\000-21 Santa Cruz City Schools - Gault ELEMENTARY\000\Production\A4 - S1 - 19/A5 - S9.0 - WALL FRAMING ELEVATIONS - METAL STUDS.dwg



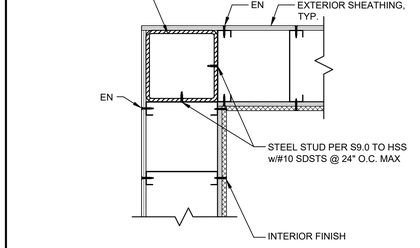
EXTERIOR WALL TO ROOF BEAM DETAIL 1
SCALE : 1 1/2"=1'-0"



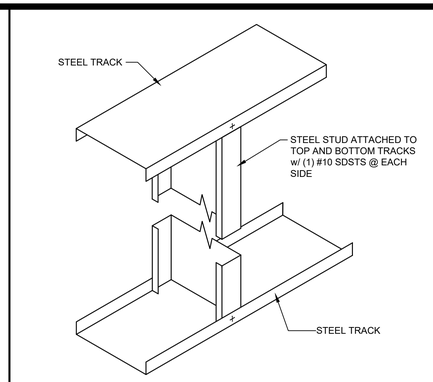
EXTERIOR WALL TO ROOF BEAM DETAIL 2
SCALE : 1 1/2"=1'-0"



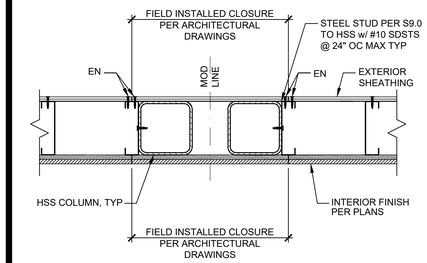
TYP. EXTERIOR WALL TO FLOOR DETAIL 3
SCALE : 1 1/2"=1'-0"



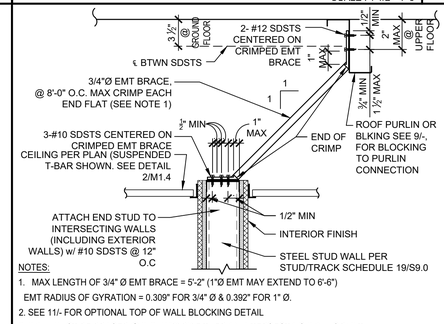
WALL TO COL TYP. DET @ CORNERS 4
SCALE : 1 1/2"=1'-0"



TYP. STUD ATTACHMENT
SCALE : 1 1/2"=1'-0" 5

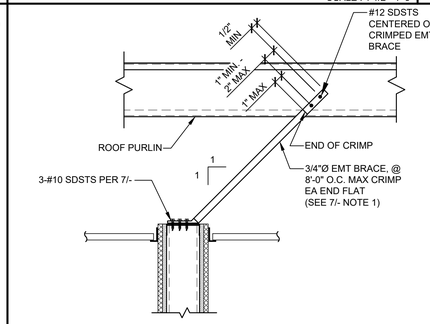


WALL TO COL TYP. DET @ MODLINES 6
SCALE : 1 1/2"=1'-0"



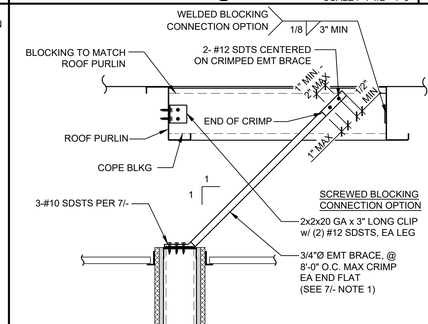
NOTES:
1. MAX LENGTH OF 3/4" Ø EMT BRACE = 5'-2" (1"Ø EMT MAY EXTEND TO 6'-6")
   EMT RADIUS OF GYRATION = 0.309" FOR 3/4" Ø & 0.392" FOR 1" Ø.
2. SEE 11/- FOR OPTIONAL TOP OF WALL BLOCKING DETAIL
3. WALL MUST BE BRACED @ 8'-0" MAX BY EITHER AN INTERSECTING WALL OR WITH TOP PLATE BRACING TO ROOF FRAMING.
4. FOR BRACING OF PARTITION WALLS WITH CABINETRY, REFER TO DETAILS 14 OR 16/-.

INT WALL BRACING (BRACE PERPENDICULAR TO PURLIN OR BLOCKING) 7
SCALE : 1 1/2"=1'-0"



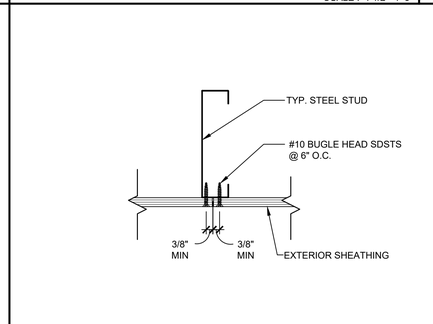
NOTE:
SEE 7/- FOR NOTES & ADDITIONAL INFORMATION

INT WALL BRACING (BRACE PARALLEL TO PURLIN) 8
SCALE : 1 1/2"=1'-0"

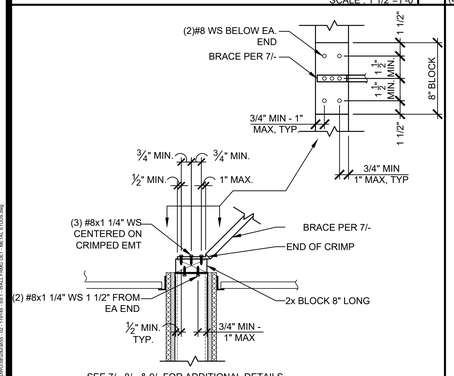


NOTE:
SEE 7/- FOR NOTES & ADDITIONAL INFORMATION

INT WALL BRACING (BRACE PARALLEL TO BLOCKING) 9
SCALE : 1 1/2"=1'-0"

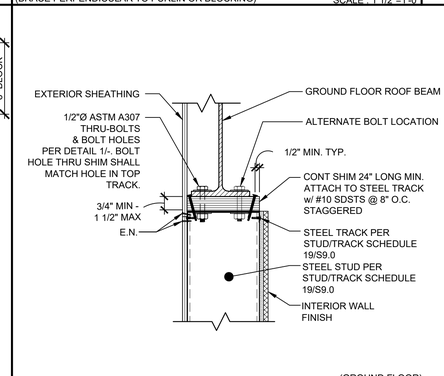


PLYWOOD JOINT
SCALE : 1 1/2"=1'-0" 10



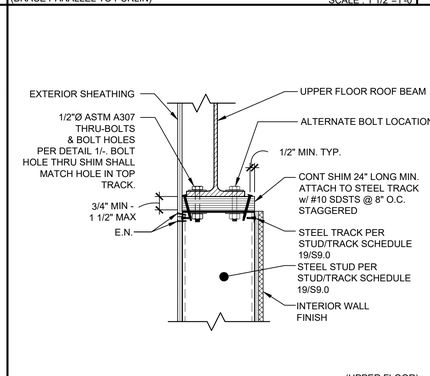
SEE 7/-, 8/-, & 9/- FOR ADDITIONAL DETAILS

OPTIONAL BLOCKING @ INT WALL BRACING 11
SCALE : 1 1/2"=1'-0"



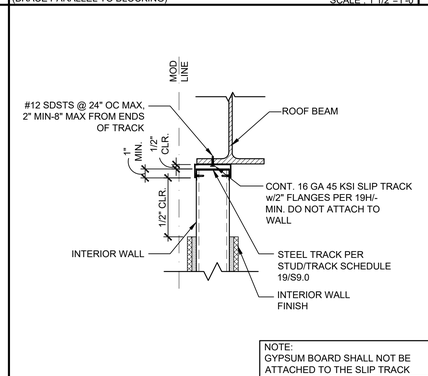
(GROUND FLOOR)

EXTERIOR WALL TO ROOF BEAM DET w / SHIM COND 12
SCALE : 1 1/2"=1'-0"



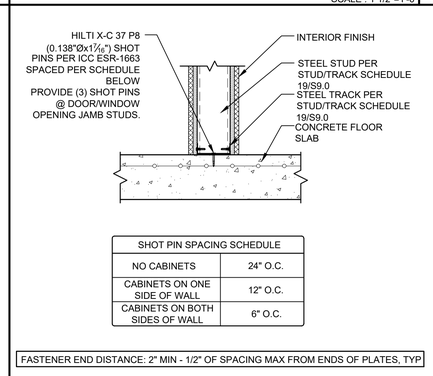
(UPPER FLOOR)

EXTERIOR WALL TO ROOF BEAM DET w / SHIM COND 13
SCALE : 1 1/2"=1'-0"



NOTE:
GYPSUM BOARD SHALL NOT BE ATTACHED TO THE SLIP TRACK

INT WALL ATTACHMENT @ MODLINE ROOF BEAM 14
SCALE : 1 1/2"=1'-0"



SHOT PIN SPACING SCHEDULE	
NO CABINETS	24" O.C.
CABINETS ON ONE SIDE OF WALL	12" O.C.
CABINETS ON BOTH SIDES OF WALL	6" O.C.

FASTENER END DISTANCE: 2" MIN - 1/2" OF SPACING MAX FROM ENDS OF PLATES, TYP

INTERIOR WALL CONN @ FLOOR
SCALE : 1 1/2"=1'-0" 15

INT. WALL ATTACHMENT @ ROOF FRAMING 16
SCALE : 1 1/2"=1'-0"

WALL BLOCKING DETAIL
N.T.S. 17

SEE 19D/S9.3 FOR OPTIONAL 1000S162-43 EXTERIOR STUDS

SEE 19G/S9.3 FOR TYPICAL 10" STUD TRACK1000T150-43

TYP. STEEL STUD & TRACK PROPERTIES
(SEE 19/S9.3 & 3/S9.4 FOR ADDITIONAL STEEL STUD PROPERTIES AT TYPICAL WALL BUMPOUTS PER 17/S9.3)
N.T.S. 19

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING
FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK RICHARD LACKNER
No. C38138
Ren. 11-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
ANTHONY PATRICK CARNEY
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FAJARDO
No. S3385
STRUCTURAL
STATE OF CALIFORNIA
RST#21137

7/22/2022

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

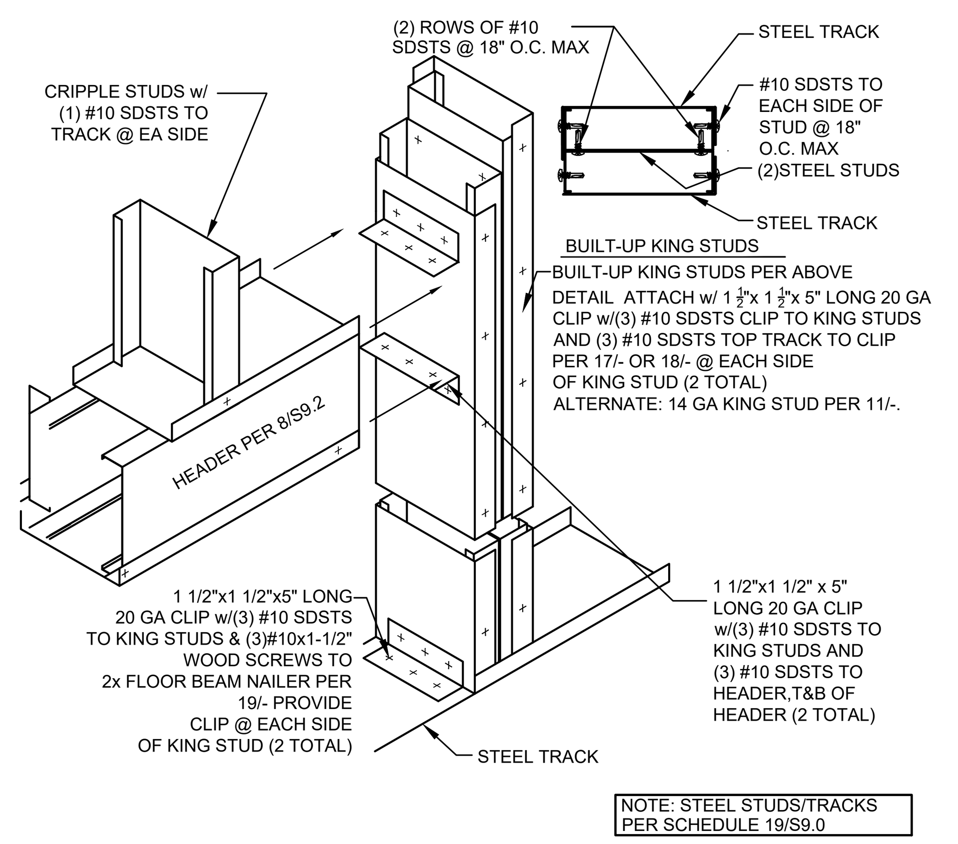
REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

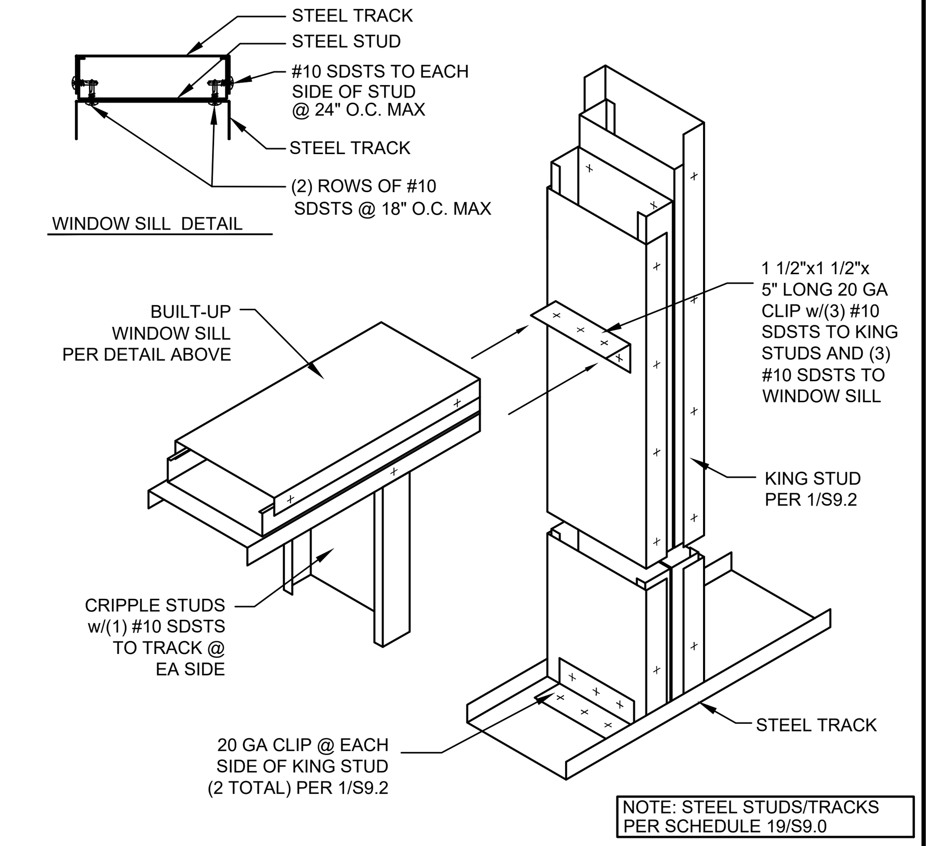
SHEET TITLE:
WALL FRAMING DETAILS METAL STUDS

SHEET NUMBER:
S9.1

05-XXXXX - 2-Story.rvt 2/8/2022 3:42 AM 2/7/2022 11:54 AM



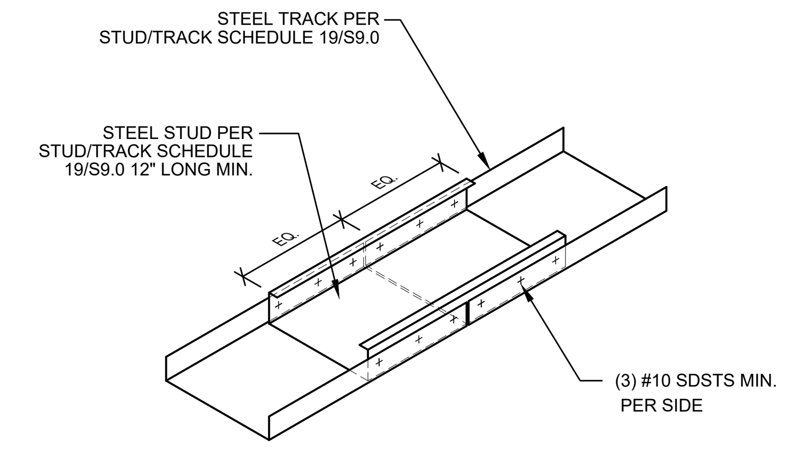
DOOR/WINDOW HEADER DETAIL 1
GREATER THAN 6'-0" - 10' - 0" MAX OPENINGS (EXTERIOR WALLS) SCALE: N.T.S.



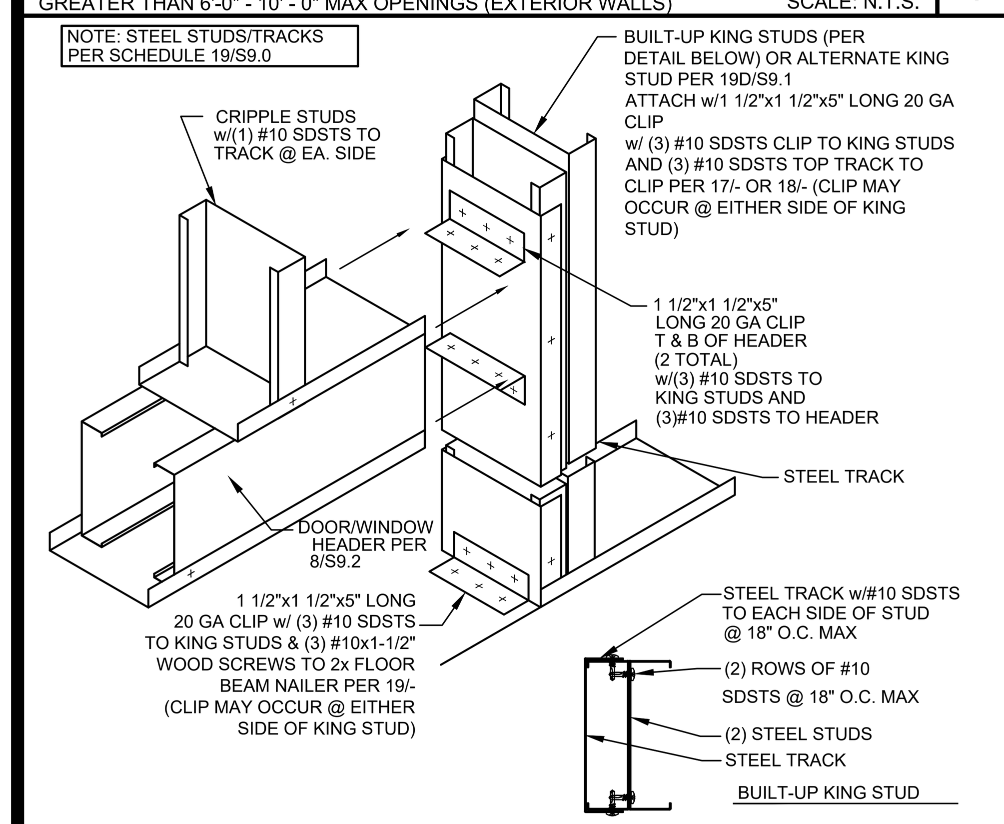
WINDOW SILL DETAIL 2
GREATER THAN 6'-0" - 10' - 0" MAX OPENINGS (EXTERIOR WALLS) SCALE: N.T.S.

NOT USED 3

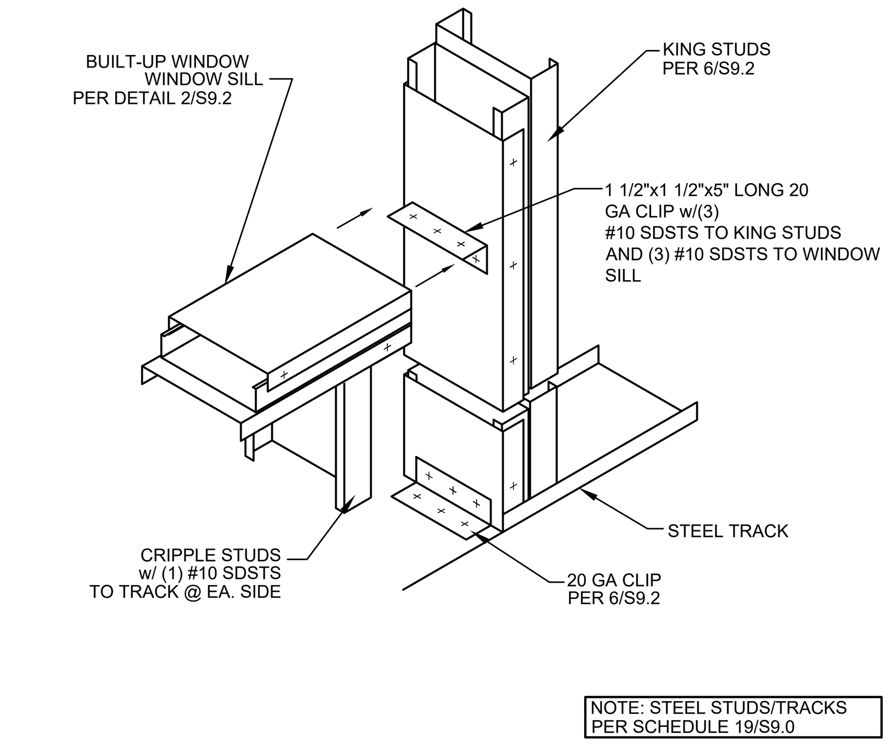
NOT USED 4



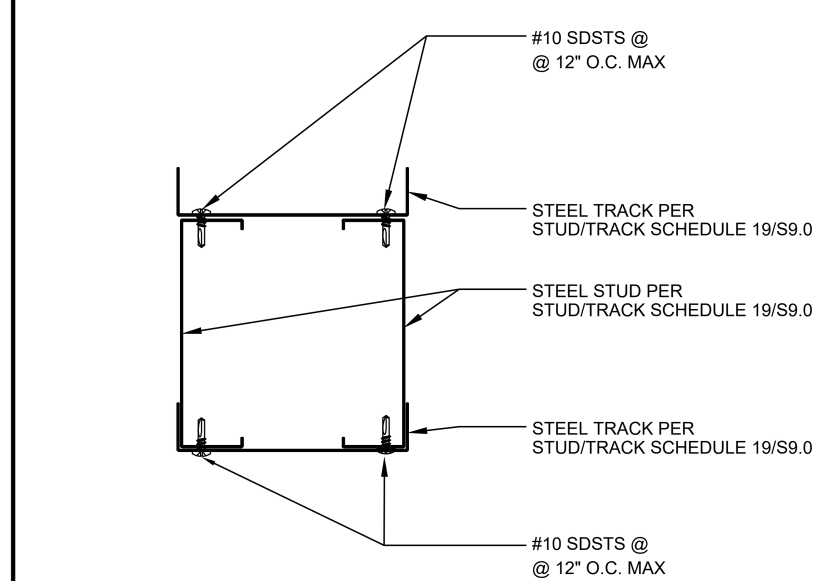
TRACK SPLICE DETAIL 5
SCALE: N.T.S.



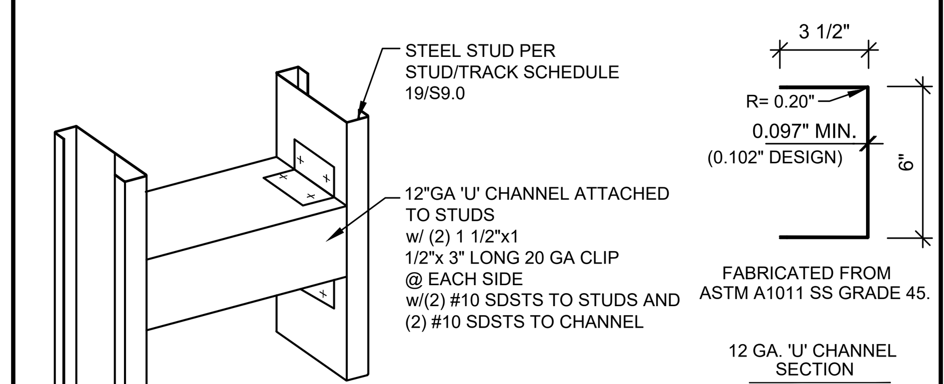
DOOR/WINDOW HEADER DETAIL 6
6'-0" OR LESS OPENINGS (EXTERIOR WALLS) SCALE: N.T.S.



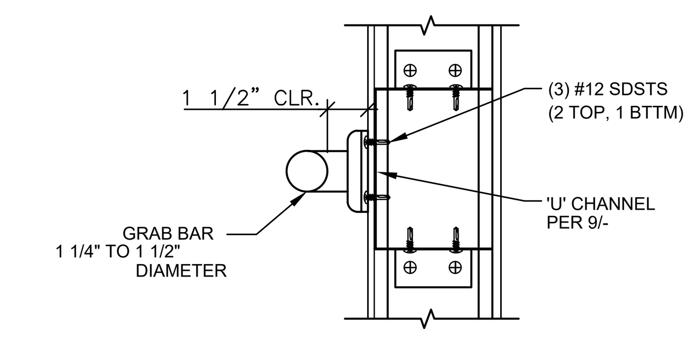
WINDOW SILL DETAIL 7
6'-0" OR LESS OPENINGS (EXTERIOR WALLS) SCALE: N.T.S.



DOOR / HEADER DETAIL 8
SCALE: N.T.S.



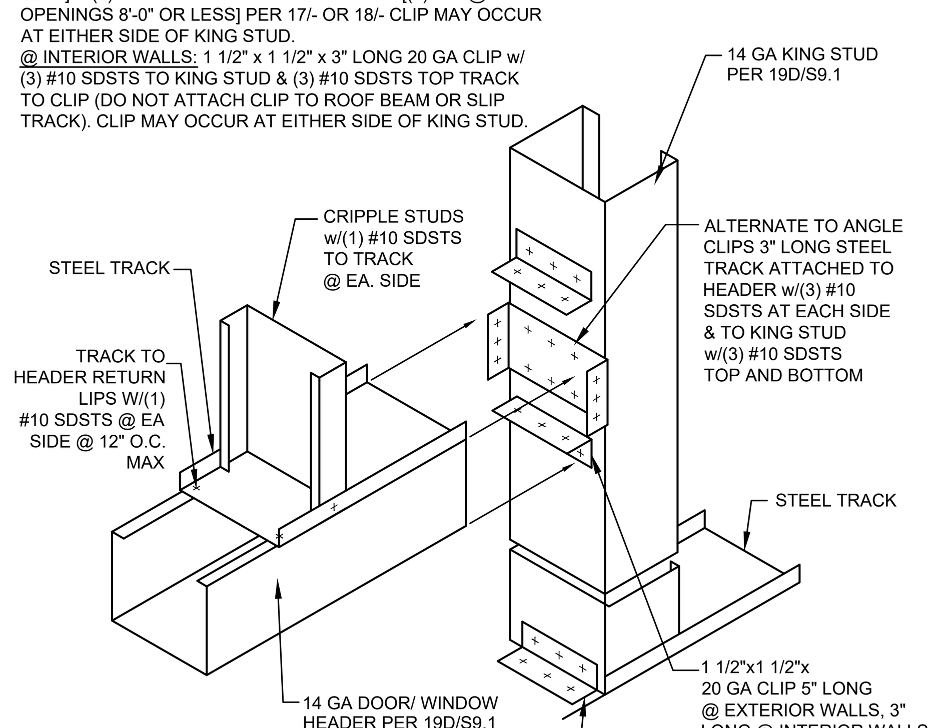
GRAB BAR BLOCKING DETAIL 9
SCALE: N.T.S.



GRAB BAR ATTACHMENT 10
SCALE: N.T.S.

KING STUD TOP CONNECTION

@ EXTERIOR WALLS: 1 1/2" x 1 1/2" x 5" LONG 20 GA CLIP w/ (4) #10 SDSTS TO KING STUD [(3) #10 @ OPENINGS 8'-0" OR LESS] & (4) #10 SDSTS TOP TRACK TO CLIP [(3) #10 @ OPENINGS 8'-0" OR LESS] PER 17/- OR 18/- CLIP MAY OCCUR AT EITHER SIDE OF KING STUD.
@ INTERIOR WALLS: 1 1/2" x 1 1/2" x 3" LONG 20 GA CLIP w/ (3) #10 SDSTS TO KING STUD & (3) #10 SDSTS TOP TRACK TO CLIP (DO NOT ATTACH CLIP TO ROOF BEAM OR SLIP TRACK). CLIP MAY OCCUR AT EITHER SIDE OF KING STUD.

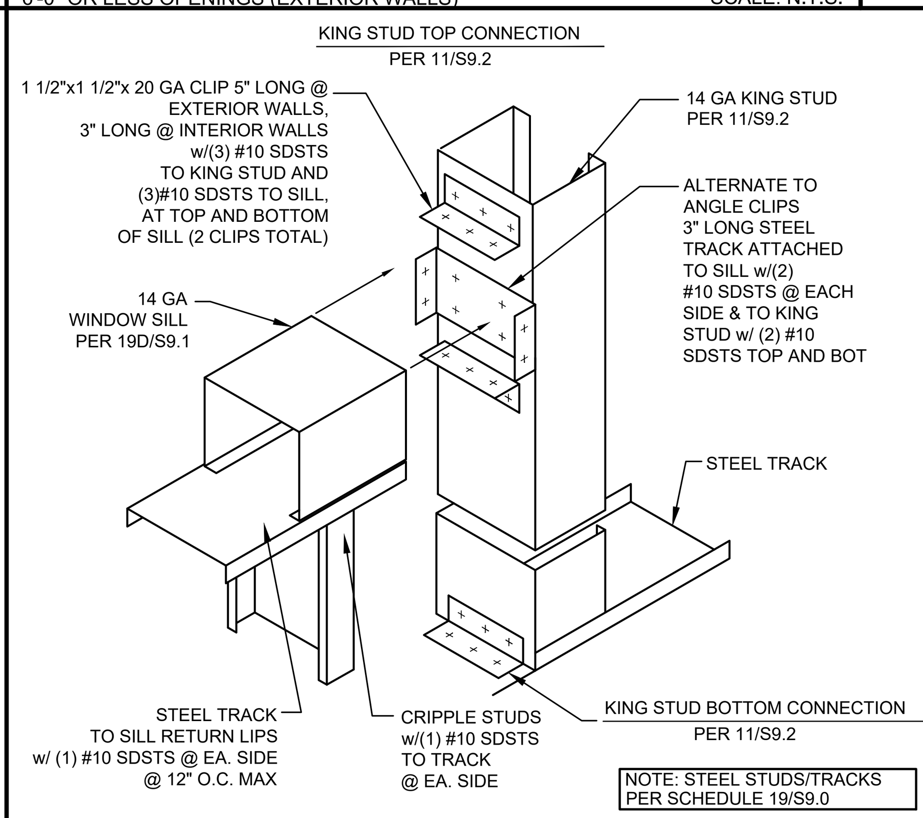


NOTE: STEEL STUDS/TRACKS PER SCHEDULE 19/S9.0

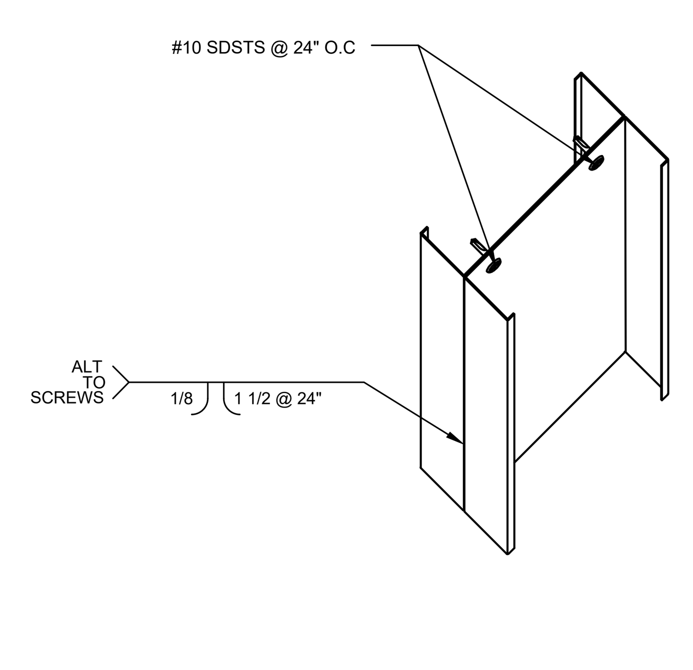
KING STUD BOTTOM CONNECTION @ EXTERIOR WALLS:
ATTACH w/1 1/2"x 1 1/2"x5" LONG 20 GA. CLIP w/ (4) #10 SDSTS TO KING STUD ((3) #10 @ OPENINGS LESS THAN 6'-0")
AND (5) #10x 1 1/2" WOOD SCREWS TO 2x FLOOR BEAM NAILER ((3) #10 @ OPENINGS LESS THAN 6'-0") PER 19/-
(CLIP MAY OCCUR AT EITHER SIDE OF KING STUD)

KING STUD BOTTOM CONNECTION @ INTERIOR WALLS:
ATTACH w/ 1 1/2"x1 1/2"x3" LONG 20 GA. CLIP w/(3) #10 SDSTS TO KING STUD AND (3) #10x 1 1/2" WOOD SCREW TO 2x FLOOR BEAM NAILER PER 19/- (CLIP MAY OCCUR AT EITHER SIDE OF KING STUD)

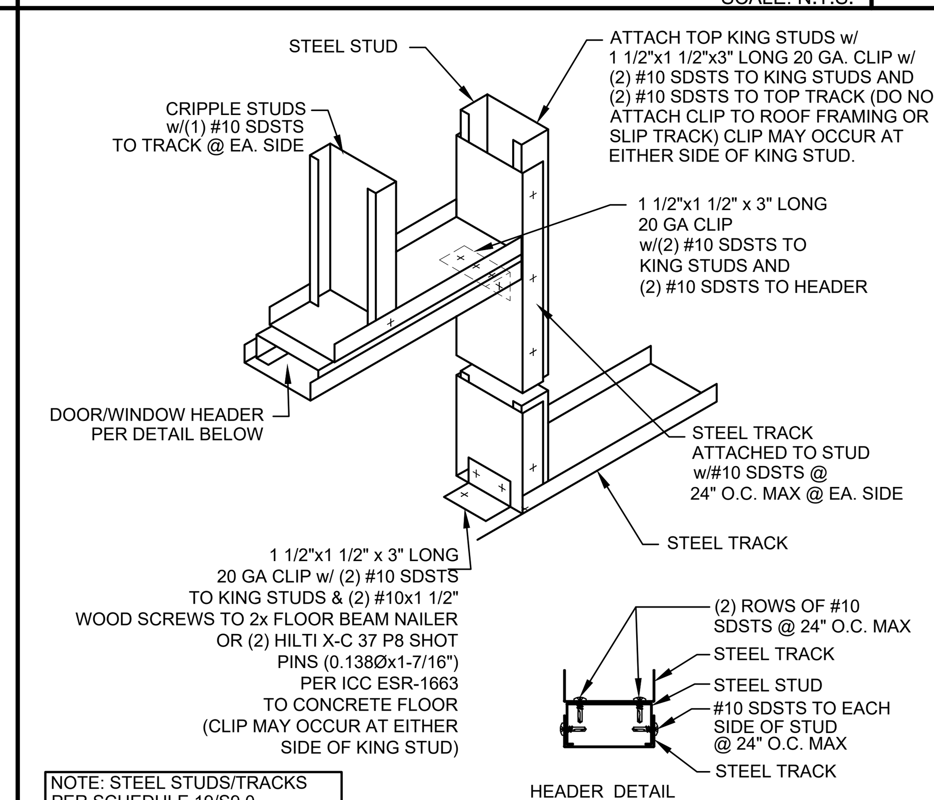
DOOR/WINDOW HEADER DETAIL 11
12'-0" MAX OPENINGS (EXTERIOR OR INTERIOR WALLS) SCALE: N.T.S.



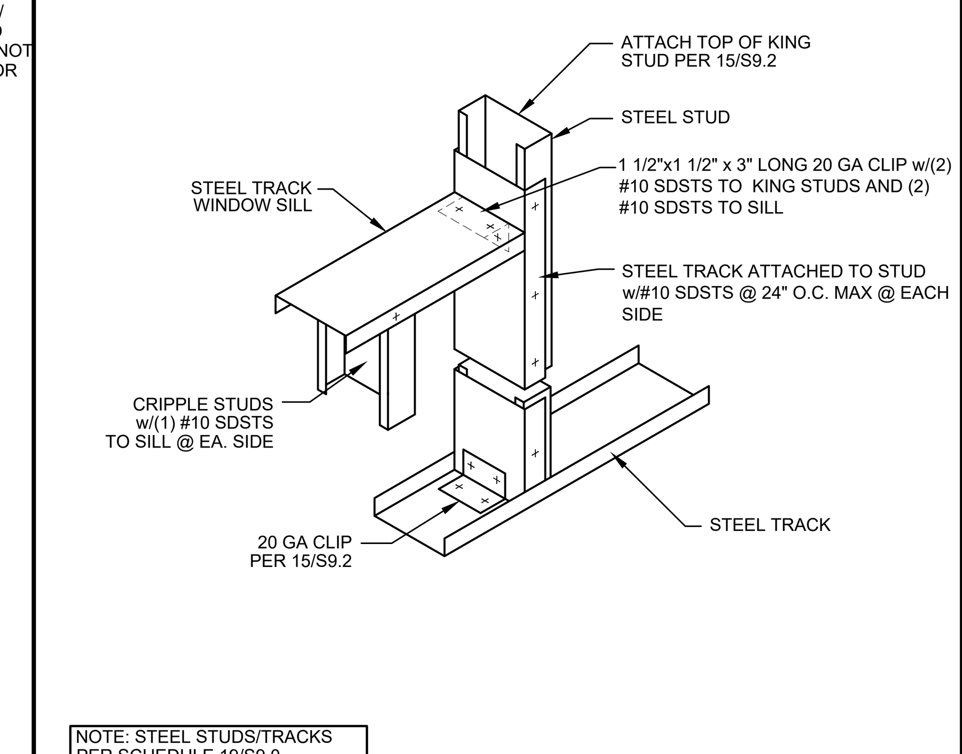
WINDOW SILL DETAIL 12
12'-0" MAX OPENINGS (EXTERIOR OR INTERIOR WALLS) SCALE: N.T.S.



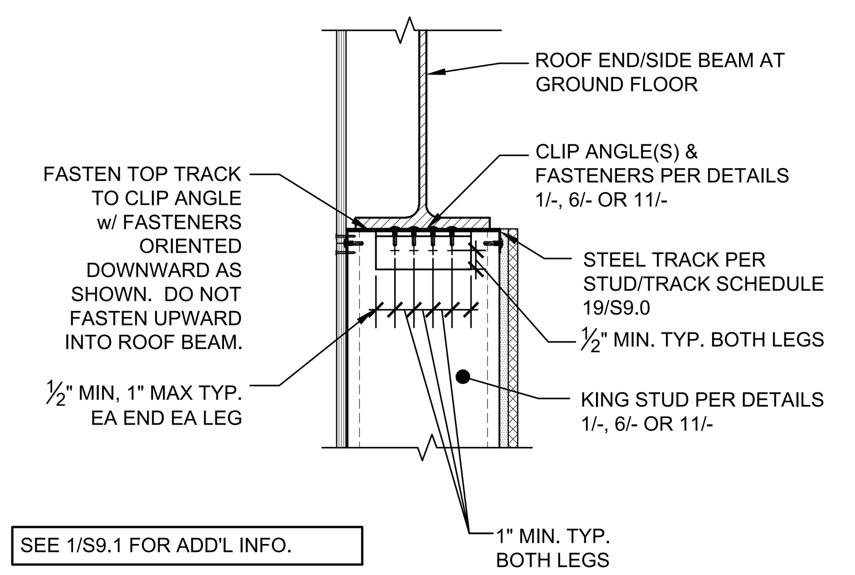
DOUBLE STUD CONNECTION DETAIL 13
6'-0" OR LESS OPENINGS (INTERIOR WALLS) SCALE: N.T.S.



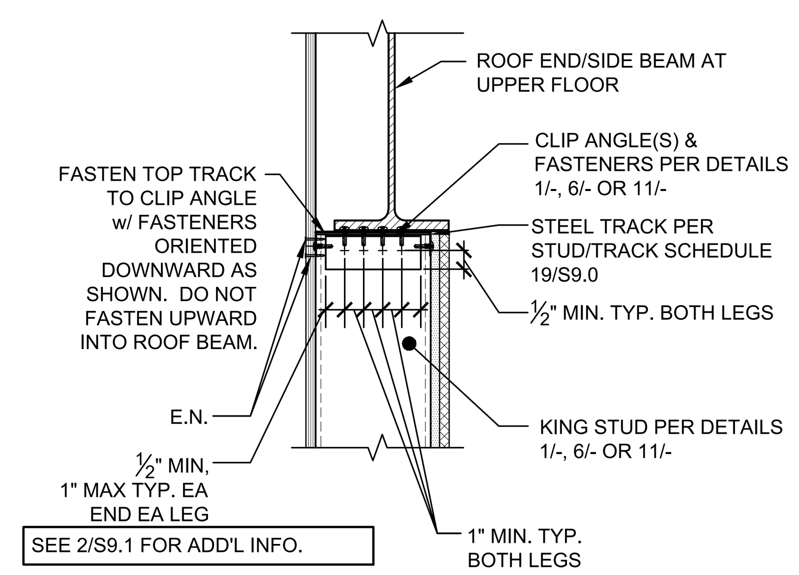
DOOR/WINDOW HEADER DETAIL 15
6'-0" OR LESS OPENINGS (INTERIOR WALLS) SCALE: N.T.S.



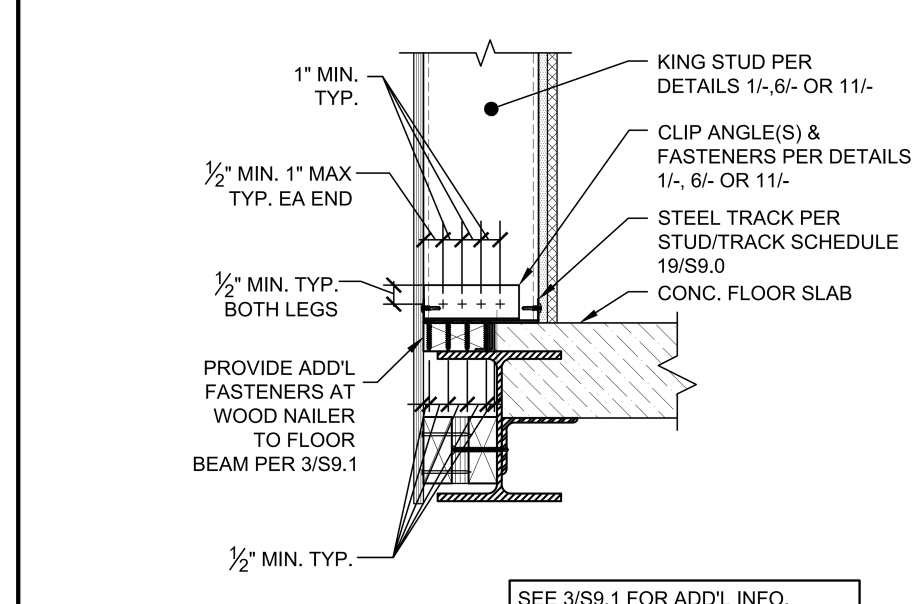
WINDOW SILL DETAIL 16
6'-0" OR LESS OPENINGS (INTERIOR WALLS) SCALE: N.T.S.



KING STUD TO ROOF BEAM DETAIL 17
@ GROUND FLOOR SCALE: 1-1/2" = 1'-0"



KING STUD TO ROOF BEAM DETAIL 18
@ UPPER FLOOR SCALE: 1-1/2" = 1'-0"



TYP. KING STUD TO FLOOR BEAM DETAIL 19
SCALE: 1-1/2" = 1'-0"

NOT USED 20

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK EDWARD BARTOS
C-24138
REN. 03-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD
LICENSED ARCHITECT
RANDAL PATRICK CAVANAGH
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRISCH
No. S3380
STRUCTURAL
STATE OF CALIFORNIA
RST#21137
7/22/2022

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

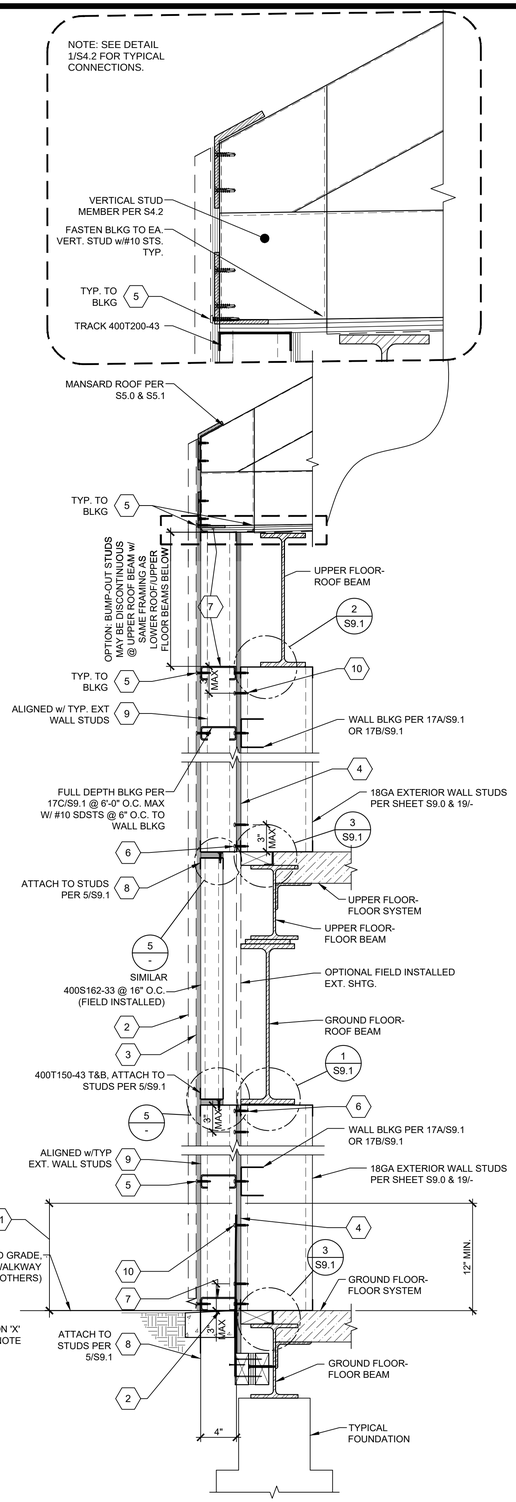
REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
WALL FRAMING DETAILS
METAL STUDS

SHEET NUMBER:
S9.2

02-XXXXXX - 2-Story 48' - 228' x 40' - SAVED: 12/14/2021 1:13 PM PLOTTED: 6/21/2022 11:06 AM W:\Projects\1000-1999\1600-1699\1657-21 Santa Cruz City Schools- Gault ES\PRELIMINARY\DWG\Structural\56 - 02 - 119145 - S9.2 - WALL FRMG DET - METAL STUDS.dwg

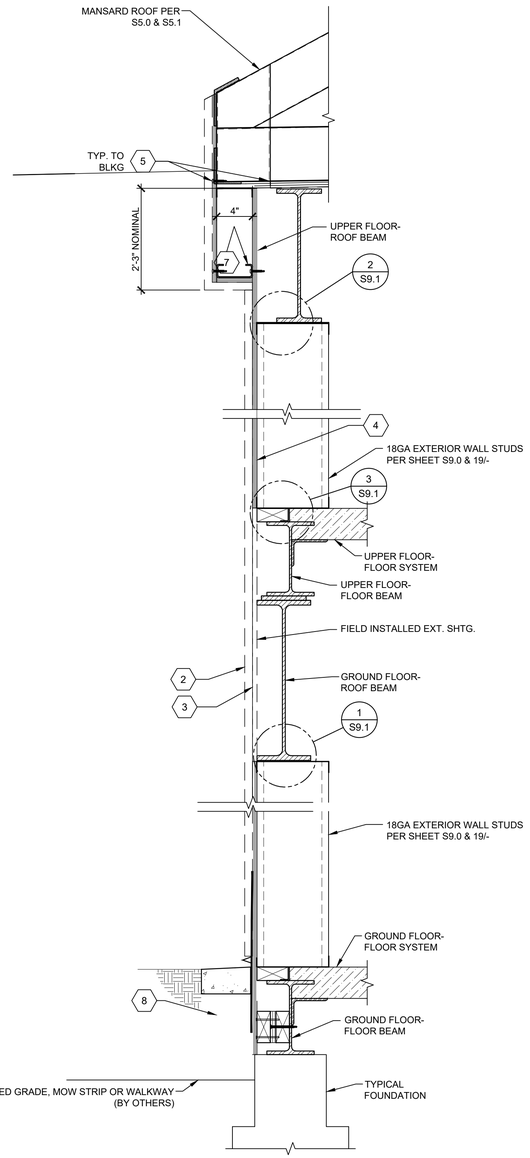


NOTE:
SEE 1/S9.4 FOR TYPICAL SECTION @ WINDOW OPENINGS w/o AWNING. SEE 2/S9.4 FOR TYPICAL SECTION AT WINDOW OPENINGS w/AWNING.
DOOR OPENINGS NOT PERMITTED IN TYPICAL WALL BUMP-OUTS.

*BUMP-OUT CAVITY SHALL BE FILLED WITH INSULATION (NOT SHOWN)

TYPICAL BUMP-OUT WALL SECTION

SCALE: 1-1/2" = 1'-0" | 17

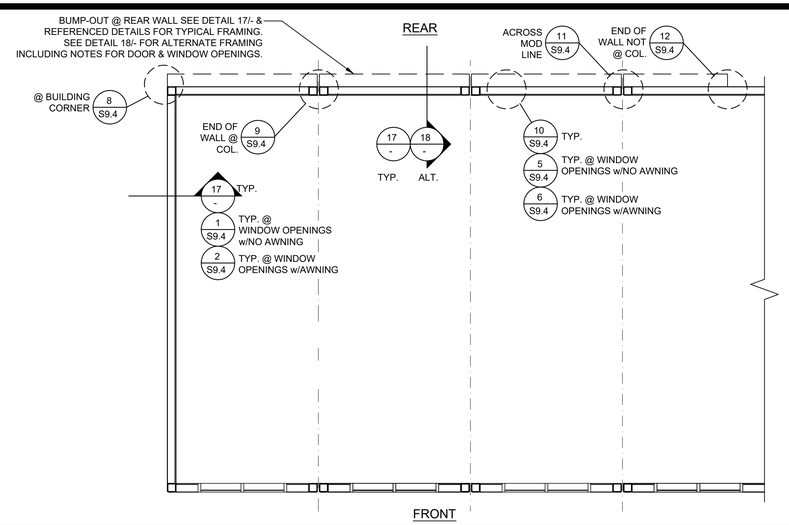


DOOR & WINDOW OPENINGS PER REQUIREMENTS FOR TYPICAL EXTERIOR WALLS ARE PERMITTED IN ALTERNATE REAR WALL BUMP-OUTS. SEE S9.0-S9.2

*BUMP-OUT CAVITY SHALL BE FILLED WITH INSULATION (NOT SHOWN)

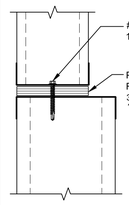
ALTERNATE BUMP-OUT WALL SECTION @ REAR WALL

SCALE: 1-1/2" = 1'-0" | 18



WALL BUMP-OUT KEY PLAN

NOT TO SCALE | 4

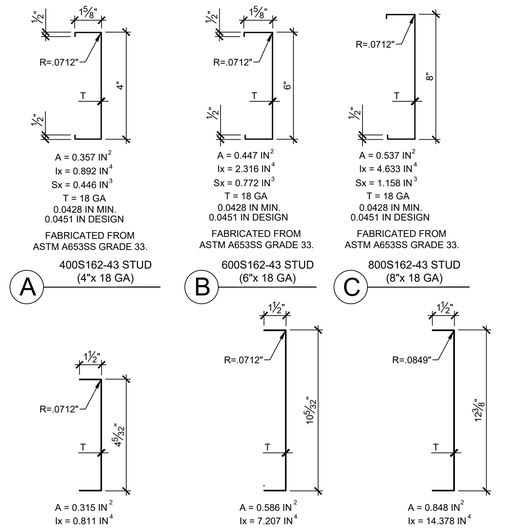


STUD SHIM DETAIL

SCALE: 3" = 1'-0" | 5

KEY NOTES

1. CAP FLASHING PER ARCH. DRAWINGS
2. EXTERIOR FINISH PER ARCH. DRAWINGS EXCEPT AS NOTED IN KEYNOTE 12.
3. ½" PLYWOOD OR OSB SHTG PER 20/S9.0 (REQUIRED @ TYPICAL BUMP-OUT PER 17/- REGARDLESS OF WALL FINISH) EXCEPT AS NOTED IN KEYNOTE 11.
4. ½" PLYWOOD OR OSB SHEATHING PER 20/S9.0 EXCEPT AS NOTED IN KEYNOTE 11.
5. #10 SDSTS @ 6" O.C. TO BLOCKING - TYP.
6. #10 SDSTS @ 6" O.C. TRACK TO TRACK
7. FULL DEPTH BLKG PER 17C/S9.1 W/ #10 SDSTS @ 6" O.C. TO TRACK
8. 400T150-43, 600T150-43, 800T150-43, 1000T150-43, OR 1200T150-54 T&B, ATTACH TO STUDS PER 5/S9.1. SEE 19/- & 19/S9.1 FOR PROPERTIES.
9. 400S162-43, 600S162-43, 800S162-43, 1000S162-43, OR 1200S162-54 @ SAME SPACING. SEE 19/- FOR PROPERTIES.
10. INTER-FASTEN BUMP-OUT STUDS TO EXTERIOR WALL STUDS W/ #10 SDSTS 3" MAX FROM ENDS OF STUDS & @ 8" O.C. MAX IN BETWEEN
11. WHERE DIMENSION 'X' IS LESS THAN 6" AT MOW STRIP OR WALKWAY OR LESS THAN 8" AT SOIL, PLYWOOD SHEATHING OR OSB SHEATHING MUST BE REPLACED WITH CEMENT BOARD A MIN OF 12" ABOVE THE FINISHED FLOOR IN GROUND FLOOR EXTERIOR WALL & BUMP-OUT. PROVIDE HORIZONTAL BLKG IN EXTERIOR WALL & BUMP-OUT FOR EDGE FASTENING OF WALL SHEATHING & CEMENT BOARD. CEMENT BOARD SHALL BE CONSTRUCTED OF A PORTLAND CEMENT BASE CORE WITH GLASS FIBER REINFORCING SUCH AS PERMABASE BRAND CEMENT BOARD BY NATIONAL GYPSUM COMPANY OR DUROCK BRAND CEMENT BOARD BY USG.
12. WHERE DIMENSION 'Y' IS LESS THAN 6" AT MOW STRIP OR WALKWAY OR LESS THAN 8" AT SOIL, PLYWOOD SHEATHING OR OSB SHEATHING MUST BE REPLACED WITH CEMENT BOARD A MIN OF 12" ABOVE THE FINISHED FLOOR IN GROUND FLOOR BUMP-OUT WALL. PROVIDE HORIZONTAL BLKG IN EXTERIOR WALL & BUMP-OUT FOR EDGE FASTENING OF WALL SHEATHING & CEMENT BOARD. CEMENT BOARD SHALL BE CONSTRUCTED OF A PORTLAND CEMENT BASE CORE WITH GLASS FIBER REINFORCING SUCH AS PERMABASE BRAND CEMENT BOARD BY NATIONAL GYPSUM COMPANY OR DUROCK BRAND CEMENT BOARD BY USG.



UNLESS NOTED OTHERWISE, ALL SECTION PROPERTIES ARE GROSS SECTION PROPERTIES

SEE 19/S9.1 FOR 600T150-43 (6"x18 GA) & 800T150-43 (8"x18 GA) TRACK PROPERTIES

STEEL MEMBER PROPERTIES

NOT TO SCALE | 19

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT MARK STANDARD No. C-24738 STATE OF CALIFORNIA 3-31-23

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT TIMOTHY PATRICK KEVIN HOWARD No. C12631 Ren. 3-31-23 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER JOHNNY D. PARKER No. S3382 STRUCTURAL STATE OF CALIFORNIA RSTR#2137

7/22/2022

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

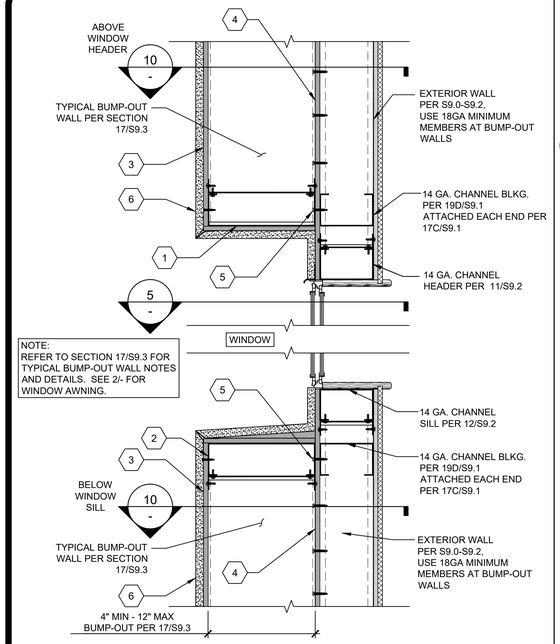
REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

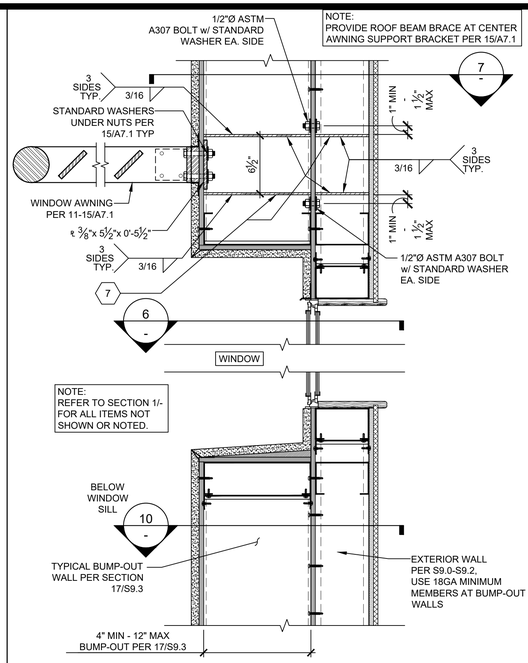
SHEET TITLE:
4" WALL BUMP-OUTS
- METAL FRAMED
DETAILS

SHEET NUMBER:
S9.3

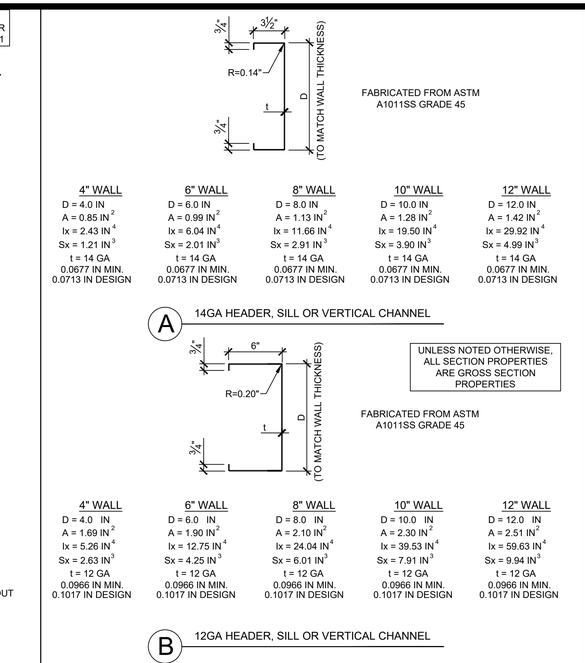
G:\AMS\XX - 2-Sheet.rtf 2SR.rtf - ID\AES 02/1/2022 8:51AM PLOTTED: 6/7/2022 1:10 AM W:\Projects\556-1989\556-1989.RVT 2:3 Santa Cruz City Schools - Gault ES\PRELIM\ARCH\DWG\Structural\S9 - 3D - 119-89_1 - Bumouts & Trailer Details - Metal.dwg



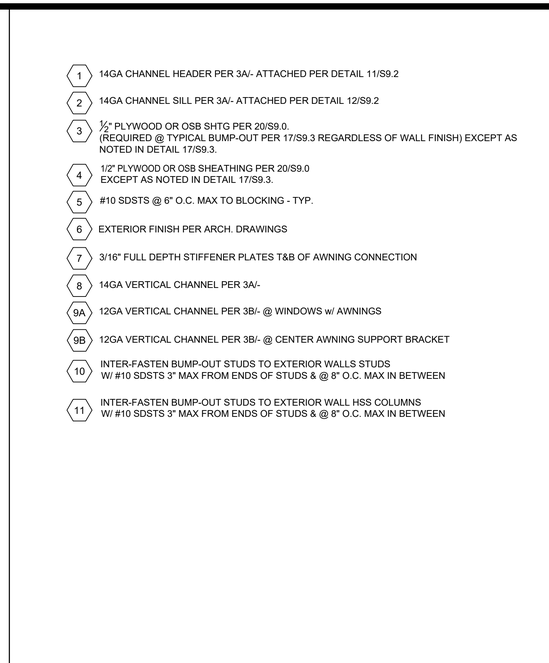
TYPICAL BUMP-OUT WALL SECTION @ WINDOW
SCALE: 1-1/2" = 1'-0" | 1



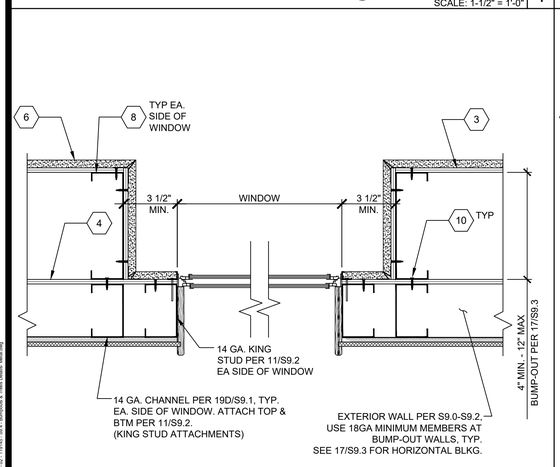
BUMP-OUT WALL SECTION @ WINDOW w/AWNING
SCALE: 1-1/2" = 1'-0" | 2



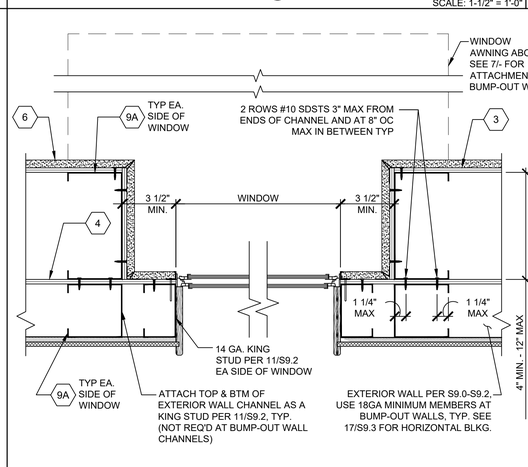
STEEL MEMBER PROPERTIES
NOT TO SCALE | 3



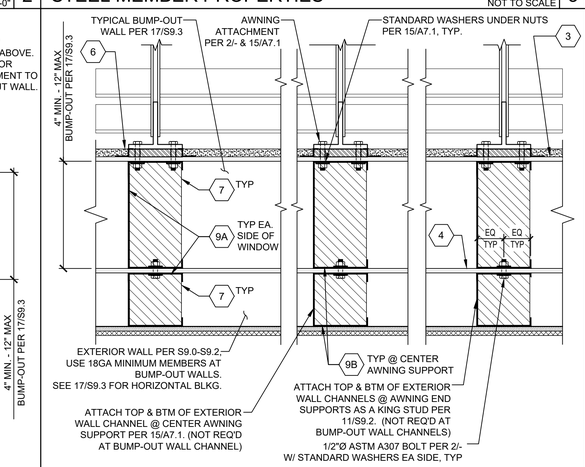
KEY NOTES



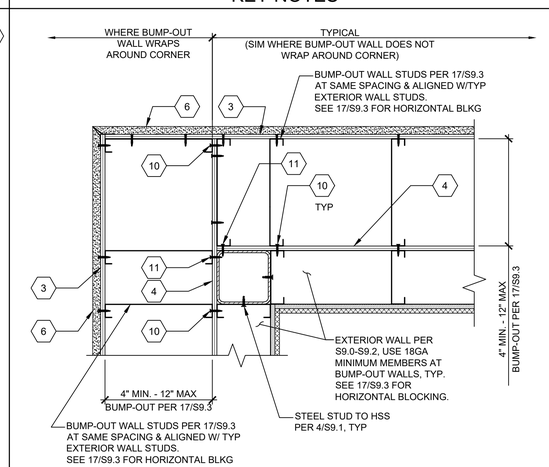
TYPICAL BUMP-OUT WALL SECTION @ WINDOW
SCALE: 1-1/2" = 1'-0" | 5



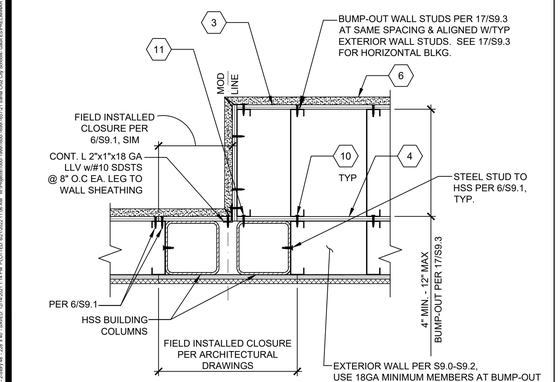
BUMP-OUT WALL SECTION @ WINDOW w/AWNING
SCALE: 1-1/2" = 1'-0" | 6



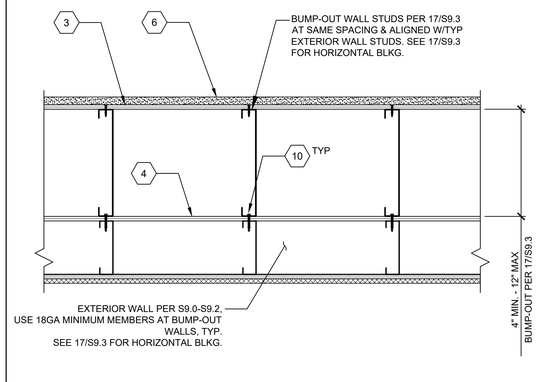
BUMP-OUT WALL SECTION @ WINDOW w/AWNING
SCALE: 1-1/2" = 1'-0" | 7



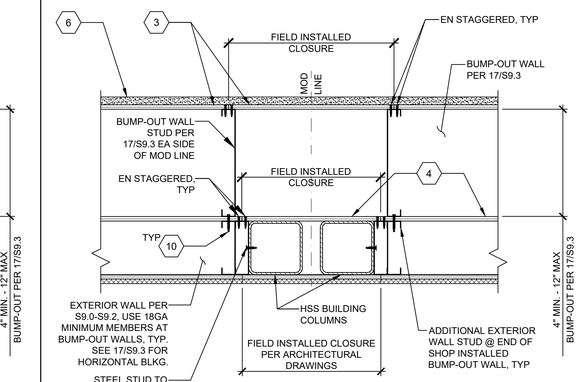
BUMP-OUT WALL DETAIL @ BUILDING CORNER
SCALE: 1-1/2" = 1'-0" | 8



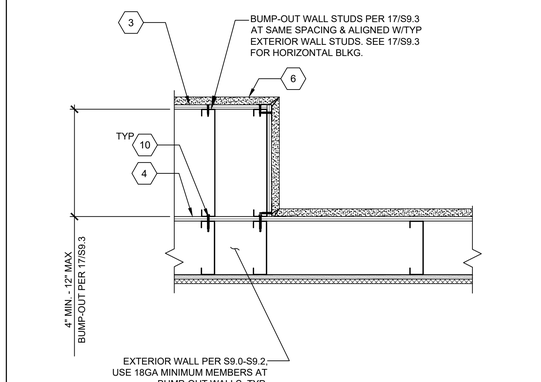
BUMP-OUT WALL DETAIL - END OF WALL @ COLUMN
SCALE: 1-1/2" = 1'-0" | 9



TYPICAL BUMP-OUT WALL DETAIL
SCALE: 1-1/2" = 1'-0" | 10



BUMP-OUT WALL DETAIL - ACROSS MODLINE
SCALE: 1-1/2" = 1'-0" | 11



BUMP-OUT WALL DETAIL - END OF WALL NOT @ COLUMN
SCALE: 1-1/2" = 1'-0" | 12

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK EDWARD DE MACHADO
C-31138
EXP. 08-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
ANDREW PATRICK O'HAGAN
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
JOHNNY D. RAMIREZ
No. 53387
STRUCTURAL
STATE OF CALIFORNIA
RETIRED 6/30/23

7/22/2022

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

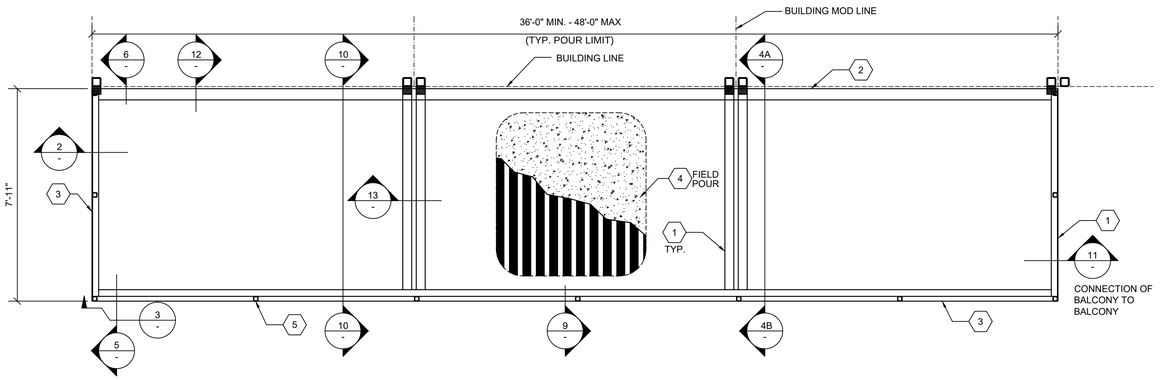
REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

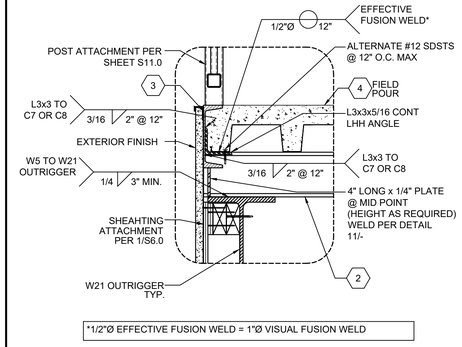
SHEET TITLE:
OPTIONAL WALL BUMP-OUTS - METAL FRAMED DETAILS

SHEET NUMBER:
S9.4

05-XXXXX 2-Story.rvt 238 x 24" ESHED 12/4/2021 1:14 PM PLOTTED 02/10/2022 11:08 AM W:\Projects\05-19\05-19B\05-19B1\02\2 Gault Old City Schools Gault ELEMENTARY\ARCH\Drawings\05 - 02 - 119151 - S9.4 - Bumpouts & Trash Details - Metal.dwg

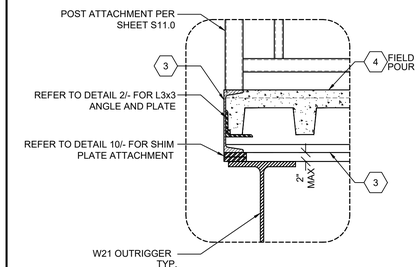


BALCONY FLOOR PLAN — SCALE : 1 1/2"=1'-0" | 1

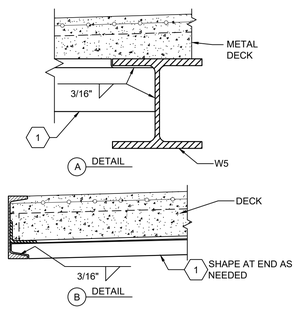


*1/2"Ø EFFECTIVE FUSION WELD = 1"Ø VISUAL FUSION WELD

BALCONY CONNECTION @ ENDS — SCALE : 1 1/2"=1'-0" | 2

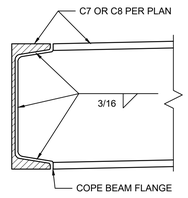


BALCONY CONNECTION @ END — SCALE : 1 1/2"=1'-0" | 3

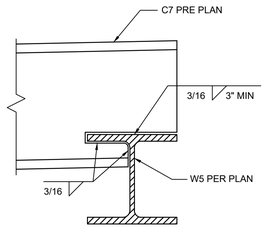


SEE 10/S10.0 FOR INFO NOT SHOWN

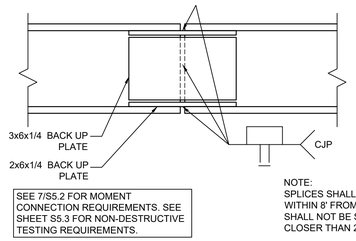
SECTION — SCALE : 3"=1'-0" | 4



C7 CONNECTION DETAIL — SCALE : 3"=1'-0" | 5



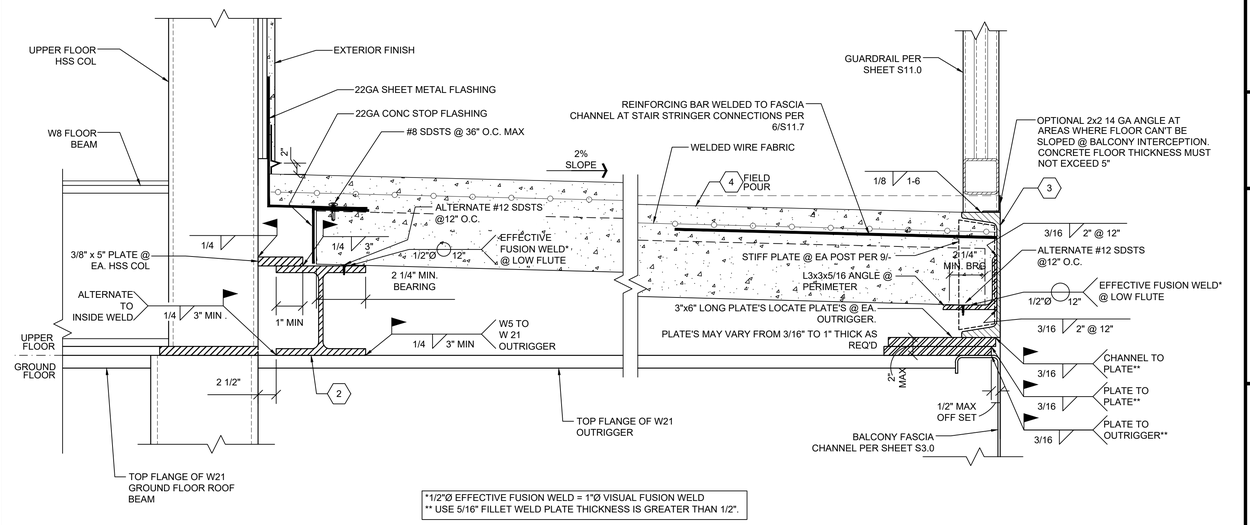
C7 OR C8 CONNECTION DETAIL — SCALE : 3"=1'-0" | 6



SEE 7/S5.2 FOR MOMENT CONNECTION REQUIREMENTS. SEE SHEET S5.3 FOR NON-DESTRUCTIVE TESTING REQUIREMENTS.

NOTE:
SPLICES SHALL NOT OCCUR WITHIN 8' FROM ENDS AND SHALL NOT BE SPACED CLOSER THAN 20'-0" O.C.

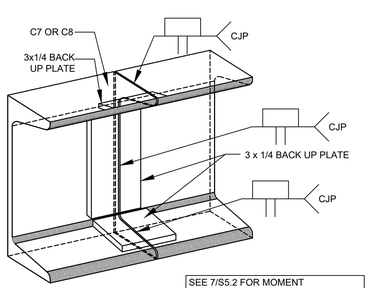
SPLICE DETAIL @ W5 — SCALE : 3"=1'-0" | 7



*1/2"Ø EFFECTIVE FUSION WELD = 1"Ø VISUAL FUSION WELD
** USE 5/16" FILLET WELD PLATE THICKNESS IS GREATER THAN 1/2".

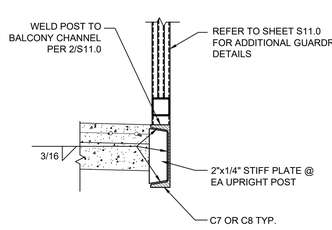
BALCONY SECTION — SCALE : 3"=1'-0" | 10

NOTE:
SPLICES SHALL NOT OCCUR WITHIN 8' FROM ENDS AND SHALL NOT BE SPACED CLOSER THAN 20'-0" O.C.

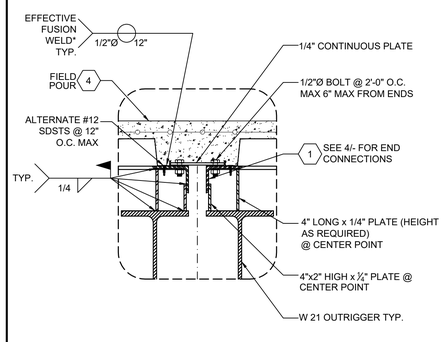


SEE 7/S5.2 FOR MOMENT CONNECTION REQUIREMENTS. SEE SHEET S5.3 FOR NON-DESTRUCTIVE TESTING REQUIREMENTS.

SPLICE DETAIL @ C7 OR C8 — SCALE : 3"=1'-0" | 8

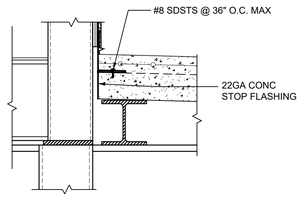


GUARDRAIL TO C7 OR C8 CHANNEL — SCALE : 1 1/2"=1'-0" | 9

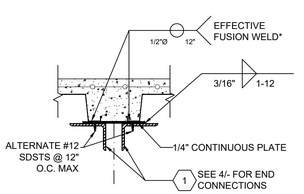


*1/2"Ø EFFECTIVE FUSION WELD = 1"Ø VISUAL FUSION WELD

BALCONY TO BALCONY CONNECTION — SCALE : 3"=1'-0" | 11



FLASHING DETAIL — SCALE : 1 1/2"=1'-0" | 12



*1/2"Ø EFFECTIVE FUSION WELD = 1"Ø VISUAL FUSION WELD

FLASHING DETAIL — SCALE : 1 1/2"=1'-0" | 13

KEY NOTES

1. 4x3x5/16 LLH CONT. ANGLE
2. W5x16 BEAM
3. C7x9.8 (50 KSI)
   ALTERNATE C8x11.5 (36 KSI MIN.)
4. 2" LIGHT WEIGHT CONC FILL w/ MED. BROOM FINISH w/6x6/W1.4 x W1.4 WWF w/1'-0" LAP OVER ASC 18 GA. 3WxH DECK (5" TOTAL THICKNESS). SEE 4/S2.1 FOR METAL DECK PROPERTIES & ATTACHMENTS.
   ALTERNATE: 3 1/2" LIGHT WEIGHT CONC. FILL w/ MED. BROOM FINISH w/6x6/W1.4xW1.4 WWF w/1'-0" LAP OVER ASC 18 GA BH-36 DECK (5" TOTAL THICKNESS). SEE 9/S11.0 FOR METAL DECK PROPERTIES & ATTACHMENTS.
   TEMPORARY MID-SPAN SHORING IS REQUIRED DURING CONCRETE PLACEMENT & SHALL NOT BE REMOVED UNTIL.....?
5. 2x2 RAILING POST @ 6'-0" O.C. MAX. REFER TO SHEET S11.0 FOR RAILING PATTERN AND DETAILS (OMIT POST @ END OF ADDITIONAL BALCONY FLOOR IF IT OCCURS)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK RICHARD SIMMONS
No. C34138
REN. 31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
GREGORY PATRICK DAVIDSON
No. C12631
Ren. 9-31-23
STATE OF CALIFORNIA

RECORDED PROFESSIONAL ENGINEER
MANNY D. FRANCISCO
No. S3320
STRUCTURAL
STATE OF CALIFORNIA
RST#21137

7/22/2022

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

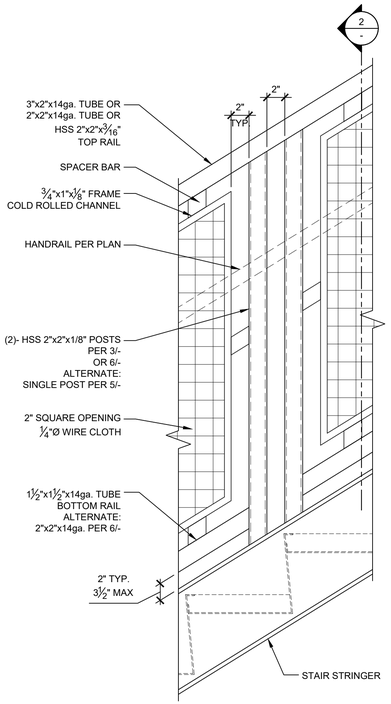
REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
BALCONY FLOOR PLAN AND DETAILS

SHEET NUMBER:
S10.0

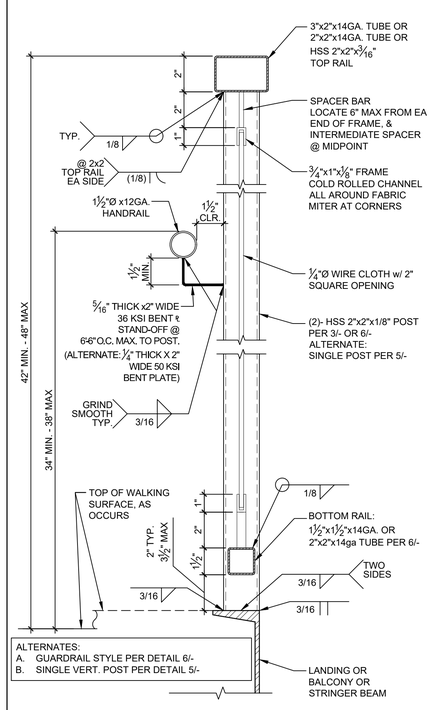
©XXXXXX - 24x36 (4P, 2SF) 4 #P - S/V/D/D - 10/14/2021 1:14 PM PCSTITO - 6/1/2022 11:07 AM - W:\Projects\06-SB\06-SB-05\SB\01-2 Sheet Cut City Schools Gault ES\PRELIM\MAIN\SB05Sheet1.dgn3 - 32 - 1/8"=1'-0" - S10.0 - BALCONY FLR PLN AND DET.dwg



NOTE:
FOR ALL LIGHT GA MEMBERS, SEE SHEET NOTES FOR MATERIAL SPECS AND A/- FOR PROPERTIES.

GUARDRAIL @ STAIR

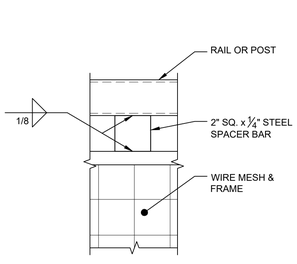
SCALE: 1-1/2" = 1'-0" | 1



NOTE:
FOR ALL LIGHT GA MEMBERS, SEE SHEET NOTES FOR MATERIAL SPECS AND A/- FOR PROPERTIES.

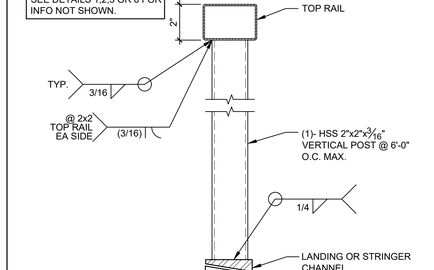
RAILING SECTION

SCALE: 1-1/2" = 1'-0" | 2



WIRE MESH TO RAIL OR POST

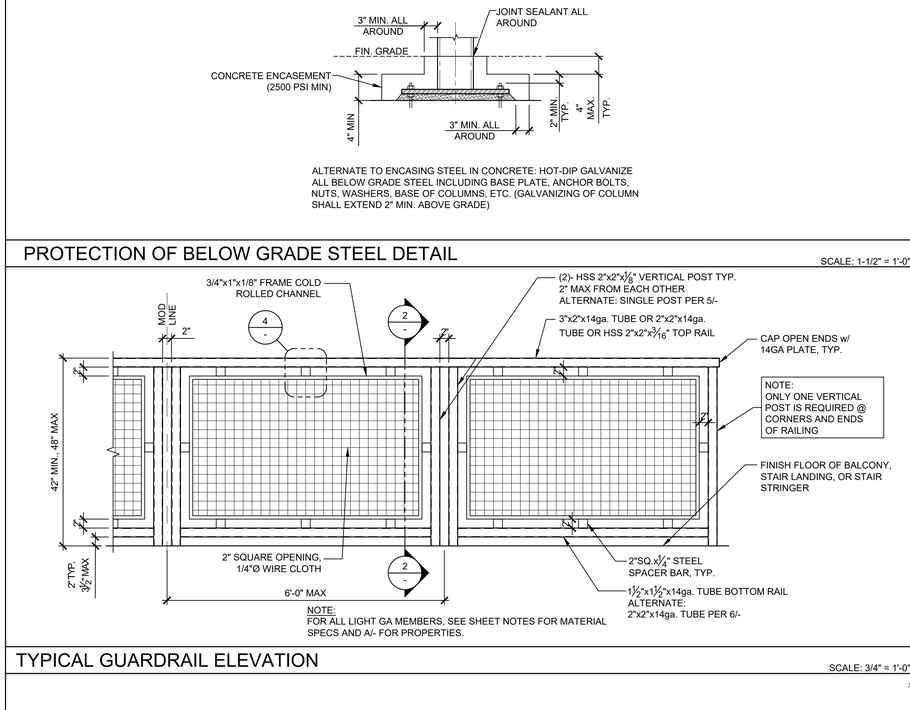
SCALE: 3" = 1'-0" | 4



NOTE:
FOR ALL LIGHT GA MEMBERS, SEE SHEET NOTES FOR MATERIAL SPECS AND A/- FOR PROPERTIES.

ALTERNATE SINGLE POST CONNECTIONS

SCALE: 3/4" = 1'-0" | 5



ALTERNATE TO ENCASING STEEL IN CONCRETE: HOT-DIP GALVANIZE ALL BELOW GRADE STEEL INCLUDING BASE PLATE, ANCHOR BOLTS, NUTS, WASHERS, BASE OF COLUMNS, ETC. (GALVANIZING OF COLUMN SHALL EXTEND 2" MIN. ABOVE GRADE)

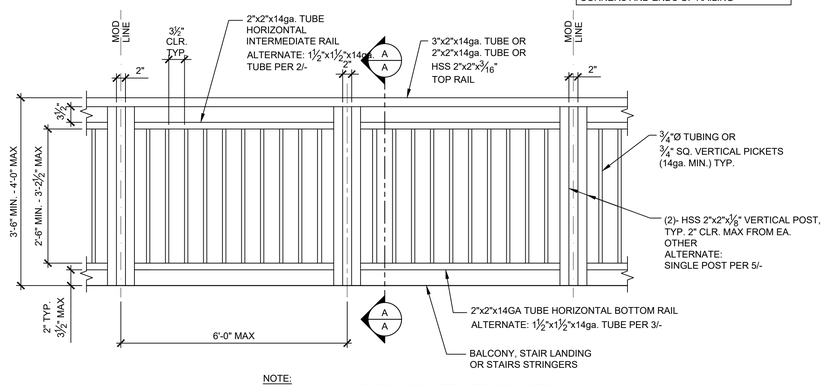
PROTECTION OF BELOW GRADE STEEL DETAIL

SCALE: 1-1/2" = 1'-0" | 2A

NOTE:
FOR ALL LIGHT GA MEMBERS, SEE SHEET NOTES FOR MATERIAL SPECS AND A/- FOR PROPERTIES.

TYPICAL GUARDRAIL ELEVATION

SCALE: 3/4" = 1'-0" | 3



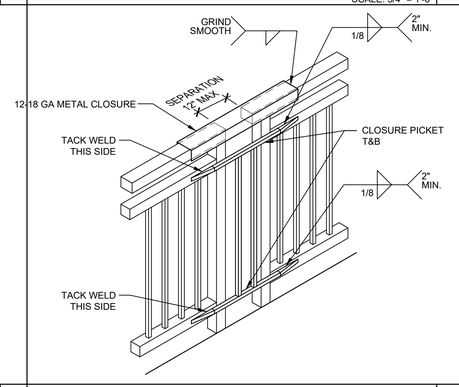
NOTE:
FOR ALL LIGHT GA MEMBERS, SEE SHEET NOTES FOR MATERIAL SPECS AND A/- FOR PROPERTIES.

ALTERNATE GUARDRAIL ELEVATION & SECTION

SCALE: 3/4" = 1'-0" | 6

RAILING @ BLDG SEPARATION

N.T.S. | 7

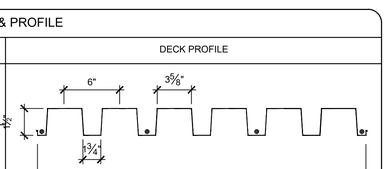


ALT. RAILING @ BLDG SEPARATION

N.T.S. | 8

BH-36 METAL DECK PROPERTIES & PROFILE

PLAN DESIGNATION	DECK TYPE	MIN. EFFECTIVE PROPERTIES S_e+ IN³/FT.	S_e- IN³/FT.	I_e+ IN⁴/FT.	I_e- IN⁴/FT.	ALLOW DIAPHRAGM SHEAR (8'-0" MAX SPAN)	DECK PROFILE
	1½"- 18GA ASC BH-36 GALV DECK PER IAPMO ER #329 (36" WIDE)	0.311	0.329	0.287	0.313	1664 PLF w/2" L.W.C. TOPPING (3½" TOTAL SLAB THICKNESS)	



@ BALCONY ONLY: TEMPORARY MID-SPAN SHOWING IS REQUIRED DURING CONCRETE PLACEMENT & SHALL NOT BE REMOVED UNTIL....?

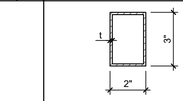
SIDE LAP ATTACHMENT TO BE BUTTON PUNCHED @ 36" O.C. MAX.

BH-36 DECK PROFILE

9

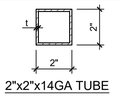
1. HSS RAILS AND POSTS: ASTM A500 GRADE B OR C OR ASTM A1085.
2. LIGHT GAUGE STEEL RAILS AND POSTS: ASTM A1011, GRADE 45 (F_y= 45 KSI).
3. BASE METAL THICKNESS OF 14GA MATERIAL SHALL BE 0.0677" MIN (0.0713" DESIGN). BASE METAL THICKNESS OF 12GA MATERIAL SHALL BE 0.0966" MIN (0.1017" DESIGN)
4. SPECIFIED STEEL TUBE THICKNESSES ARE MINIMUM. THICKER TUBES MAY BE USED.
5. ALL STEEL SHALL BE GIVEN A RUST INHIBITIVE COATING.
6. ALL WELDS SHOWN ON THIS SHEET MAY BE EITHER SHOP OR FIELD WELDS UNLESS OTHERWISE NOTED.

SHEET NOTES



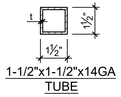
3"x2"x14GA TUBE

A = 0.671 IN²
Sx = 0.561 IN³
Ix = 0.841 IN⁴
t = 0.068" IN MIN (0.0713" IN DESIGN)



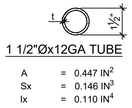
2"x2"x14GA TUBE

A = 0.529 IN²
Sx = 0.320 IN³
Ix = 0.320 IN⁴
t = 0.068" IN MIN (0.0713" IN DESIGN)



1-1/2"x1-1/2"x14GA TUBE

A = 0.386 IN²
Sx = 0.169 IN³
Ix = 0.127 IN⁴
t = 0.068" IN MIN (0.0713" IN DESIGN)



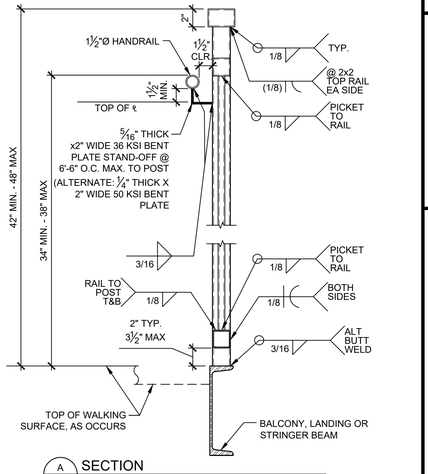
1 1/2"Øx12GA TUBE

A = 0.447 IN²
Sx = 0.146 IN³
Ix = 0.110 IN⁴
t = 0.0966" IN MIN (0.1017" IN DESIGN)

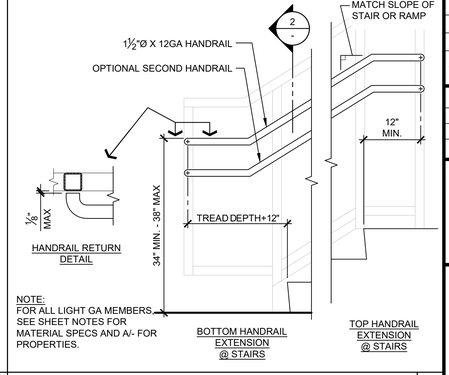
ALL SECTION PROPERTIES ARE GROSS SECTION PROPERTIES. SEE SHEET NOTES FOR STEEL PROPERTIES

MEMBER PROPERTIES

A



A SECTION
A SCALE: 1-1/2" = 1'-0"



HANDRAIL EXTENSION DETAIL

10

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME

120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT MARY DIANNE HOWARD RATCLIFF C-41138 EXP. 08.31.2023 STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT PATRICK CHARLES HOWARD No. C12631 Ren. 8-31-23 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER DANNY D. FRANCIS No. S-5336 STRUCTURAL STATE OF CALIFORNIA RST#23137

7/22/2022

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:

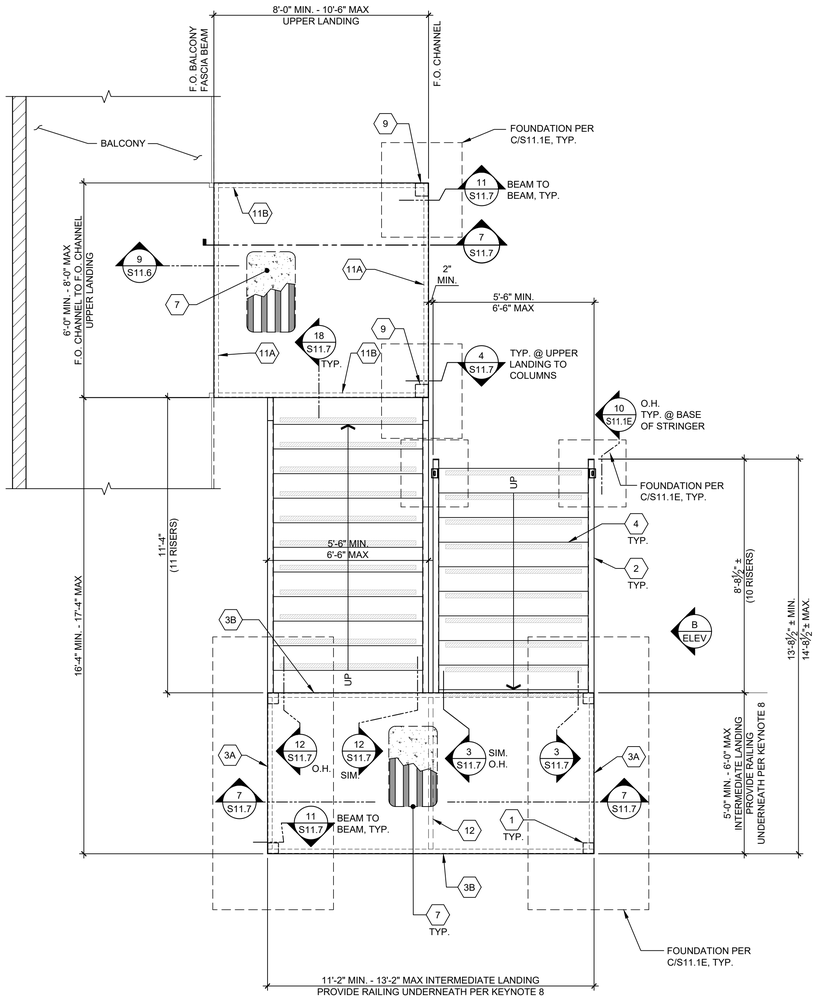
STAIR RAILING AND GUARDRAIL DETAILS

SHEET NUMBER:

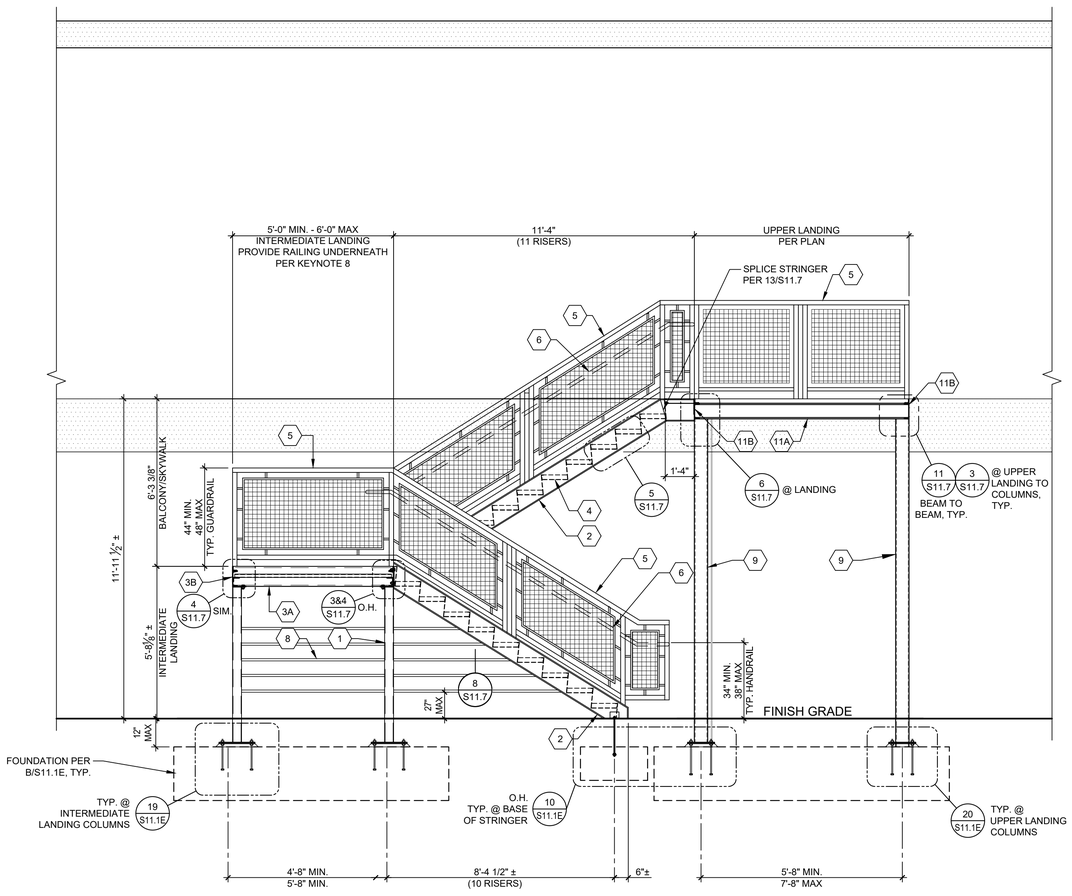
S11.0

G:\XXXXXX - 2dfax.dgt - 22" x 34" - SHEET - 7/24/2021 1:14 PM PLOTTED: 6/21/2022 1:07 AM - M:\Projects\2020-3999\BIDDING\Shop\ss09 - S2 - 1916S - S11.0 - STAIR RAILING DET.dwg

NOTES:
1. SEE S11.6 FOR UPPER LANDING FRAMING PLANS AND DETAILS.
2. OPTIONAL ENCLOSED SOFFIT NOT PERMITTED AT UPPER LANDING AT FRONT OF BALCONY.



STAIR PLAN - OPTION '1C' SCALE: 3/8" = 1'-0" A



STAIR ELEVATION - OPTION '1C' SCALE: 3/8" = 1'-0" B

NOT USED 17

NOT USED 19

KEY NOTES

1. HSS 6x6x5/16" (ASTM A500 GR. C MIN.) INTERMEDIATE LANDING COLUMN
2. C10x15.3 STRINGER (50 KSI MIN.) STIFFENER NOT REQUIRED @ RAILING POST
3A. ~~C7x9.8 (36 KSI MIN.) INTERMEDIATE LANDING PERIMETER SHORT BEAM.~~ ~~ALTERNATE:~~ C9x13.4 (36 KSI MIN.) ~~OR C8x13.75 (36 KSI MIN)~~ USE SAME DEPTH CHANNEL AS USED FOR 3B BELOW.
3B. C9x13.4 (50 KSI) w/ MAXIMUM SPAN OF 13'-2" LONG, ~~OR C8x13.75 (50 KSI)~~ w/MAX SPAN OF 13'-2" LONG
USE SAME DEPTH CHANNEL AS USED FOR 3A ABOVE.
4. 10 GA. TREAD & RISER PER 5/S11.7
5. GUARDRAIL PER SHEET S11.0
6. 1-1/2"Ø HANDRAIL PER SHEET S11.0
7. LIGHTWEIGHT CONCRETE FILL OVER METAL DECK w/ MEDIUM BROOM FINISH. SEE 7/S11.7
8. 1" SQ x14 GA. PROTECTIVE RAILING (SEE DETAIL 8/S11.7) OR OPTIONAL PLANTER BY OTHERS REQUIRED WHERE HEAD CLEARANCE IS LESS THAN 6'-8".
9. HSS 4x4x5/16" (ASTM A500 GR. C MIN.) UPPER LANDING COLUMN
10. NOT USED
11A. C7x9.8 (36 KSI MIN.), C8x13.75 (36 KSI MIN.) OR C9x13.4 (36 KSI MIN.) UPPER LANDING PERIMETER SHORT BEAM.
USE THE SAME DEPTH CHANNEL AS USED FOR 11B BELOW.
11B. C7x9.8 (50 KSI), C7x12.25 (36 KSI MIN.), C8x13.75 (36 KSI MIN.), OR C9x13.4 (36 KSI MIN.) UPPER LANDING PERIMETER LONG BEAM.
USE THE SAME DEPTH CHANNEL AS USED FOR 11A ABOVE.
12. L4x3x5/16" LLH CENTERED UNDER BOTTOM DECK FLUTE CLOSEST TO THE CENTERLINE OF THE LOWER LANDING. ATTACH DECK TO ANGLE PER 9/S11.0 AT BIH-36 DECK & PER 4/S2.1 AT 3WxH DECK. CONNECT TO PERIMETER CHANNEL EA. END WITH ¼"x2½" OR 5/16"x2" MIN FILLET WELD FROM VERTICAL LEG TO CHANNEL WEB. NOTCH AS NECESSARY.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING
FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT MARY RICHARD LYONS C-12631 EXP. 08-31-23 STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT TIMOTHY PATRICK GOLDEN No. C12631 Ren. 3-31-23 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER TIMOTHY D. FRANSON No. S3367 STRUCTURAL STATE OF CALIFORNIA RS1#231137

7/22/2022

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

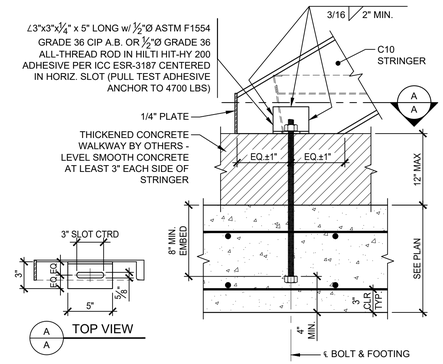
SHEET TITLE:
STAIR PLAN
AND ELEVATION
OPTION #1C
(UNCOVERED SWITCHBACK STAIRS)

SHEET NUMBER:
S11.1C

\\2XXXXX-3\dwg.all - 22in x 34", SAVED 3/3/2022 2:47:54 PM, PLOTTED 8/1/2022 1:07 AM, W:\Plans\XXXX-3999\999-999\1657-21 Santa Cruz City Schools- Gault ES\PRELIM\WORKING\Individual\S11.1C - Stair Plan & Elevs-OPTION1C.dwg

NOT USED

5



NOT USED

SCALE: 1/4" = 1'-0"

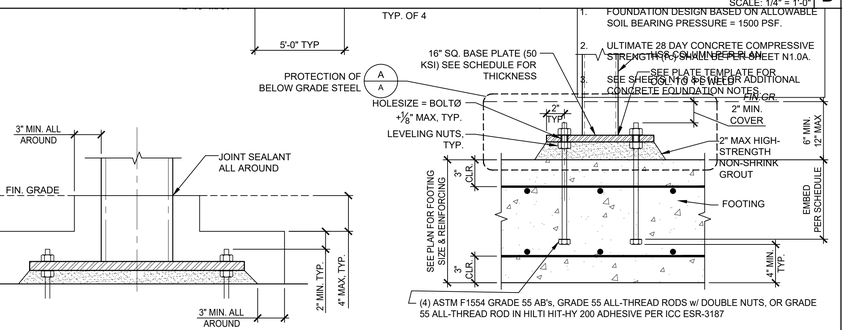
A

1. FOUNDATION DESIGN BASED ON ALLOWABLE SOIL BEARING PRESSURE = 1500 PSF.
2. ULTIMATE 28 DAY CONCRETE COMPRESSIVE STRENGTH (f'c) SHALL BE PER SHEET N1.0A.
3. SEE SHEETS N1.0 & S1.0 FOR ADDITIONAL CONCRETE FOUNDATION NOTES.

NOT USED

SCALE: 1/4" = 1'-0"

B



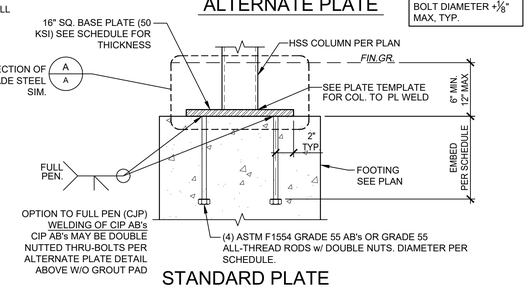
CONCRETE ENCASEMENT (2500 PSI MIN)

PROTECTION OF BELOW GRADE STEEL DETAIL

ALTERNATE TO ENCASING STEEL IN CONCRETE: HOT-DIP GALVANIZE ALL BELOW GRADE STEEL INCLUDING BASE PLATE, ANCHOR BOLTS, NUTS, WASHERS, BASE OF COLUMNS, ETC. (GALVANIZING OF COLUMN SHALL EXTEND 2" MIN. ABOVE GRADE)

NOTE: HOLE SIZE = BOLT DIAMETER +⅛" MAX, TYP.

ALTERNATE PLATE

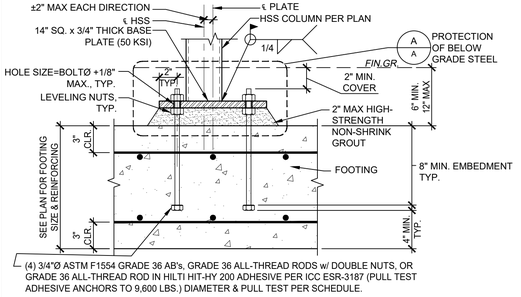


STANDARD PLATE

STRINGER ANCHORAGE DETAIL

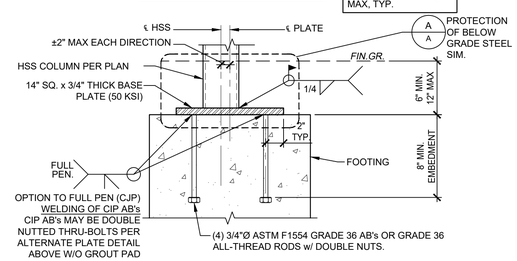
SCALE: 1-1/2" = 1'-0"

10

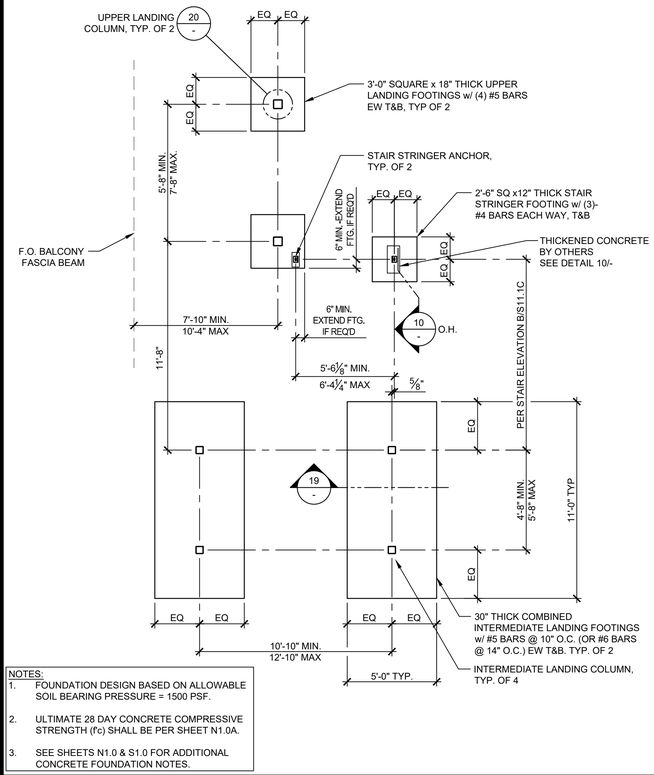


NOTE: HOLE SIZE = BOLT DIAMETER +⅛" MAX, TYP.

ALTERNATE PLATE



STANDARD PLATE



NOTES:
1. FOUNDATION DESIGN BASED ON ALLOWABLE SOIL BEARING PRESSURE = 1500 PSF.
2. ULTIMATE 28 DAY CONCRETE COMPRESSIVE STRENGTH (f'c) SHALL BE PER SHEET N1.0A.
3. SEE SHEETS N1.0 & S1.0 FOR ADDITIONAL CONCRETE FOUNDATION NOTES.

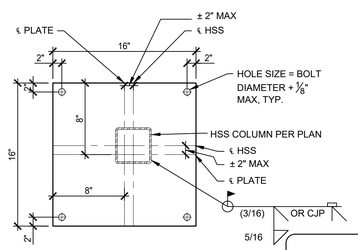


PLATE TEMPLATE

BASE PLATE / ANCHORAGE SCHEDULE

	PLATE THICKNESS	('S_b') PJP BEVEL WELD HSS COLUMN TO BASE PLATE	CAST-IN-PLACE ANCHOR BOLTS (PULL TEST NOT REQ'D)		POST-INSTALLED ADHESIVE ANCHORS		
			ANCHOR DIAMETER	ANCHOR EMBEDMENT	ANCHOR DIAMETER	ANCHOR EMBEDMENT	PULL TEST (LBS)
☐ OPTION '1C'	7/8"	(3/16)	7/8"Ø	10" MIN.	7/8" Ø	12" MIN	17,600 LBS
☐ OPTION '1B' OR '1C'	1"	(3/16)	1"Ø	12" MIN.	1" Ø	14" MIN	21,300 LBS

STAIR FOUNDATION PLAN - OPTION '1C'

SCALE: 1/4" = 1'-0"

C

INTERMEDIATE LANDING COLUMN BASE PLATE DETAIL

SCALE: 1-1/2" = 1'-0"

19

UPPER LANDING COLUMN BASE PLATE DETAIL

SCALE: 1-1/2" = 1'-0"

20

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME

120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT MARK RICHARD HOWARD No. C12631 Ren. 3-31-23 STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT MARK RICHARD HOWARD No. C12631 Ren. 3-31-23 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER JIMMY D. REED No. S3387 STRUCTURAL STATE OF CALIFORNIA REST#21137

7/22/2022

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

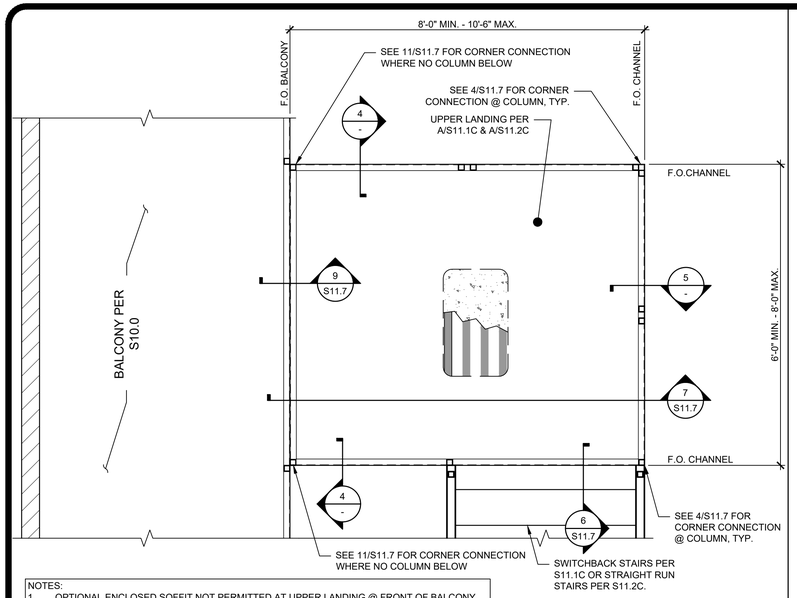
SHEET TITLE:

STAIR OPTION #1
(UNCOVERED SWITCHBACK STAIRS)
FOUNDATION PLANS
& DETAILS

SHEET NUMBER:

S11.1E

G:\AMOXX - 3-Store\4F - 2SW +4F - SHED\ 02\2022-3-5 AM FLOTTES 6/7/2022 11:07 AM - W:\Projects\006-1989\R20\13-Santa Cruz City Schools - Gault ELEMENTARY\ARCH\DWG\Structural\S - 02 - 119-R2 - S11.1E - Stair Foundation.dwg



NOTES:
1. OPTIONAL ENCLOSED SOFFIT NOT PERMITTED AT UPPER LANDING @ FRONT OF BALCONY.
2. UPPER LANDING WITHOUT ATTACHED STAIRS NOT PERMITTED.

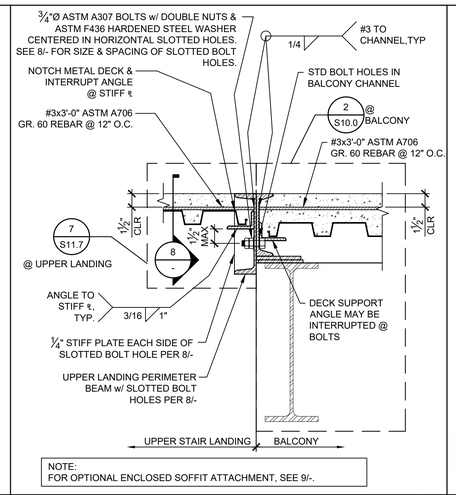
UPPER LANDING @ FRONT OF BALCONY - PLAN VIEW
SCALE: 1/2" = 1'-0" | A

NOT USED
B

NOT USED
SCALE: 1/2" = 1'-0" | C

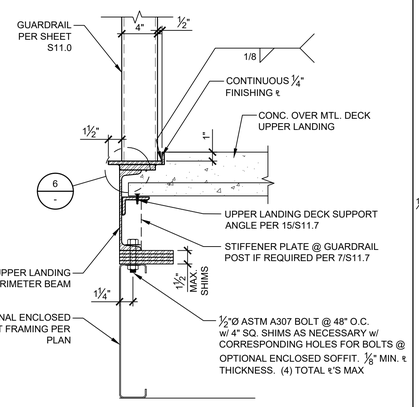
NOT USED
1

NOT USED
2



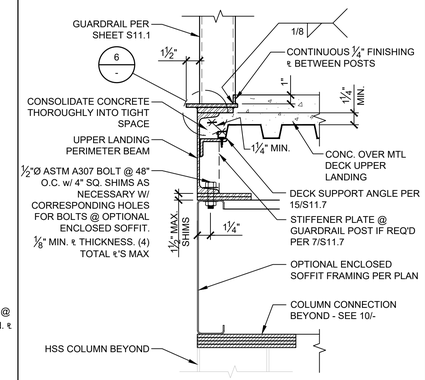
NOTE:
FOR OPTIONAL ENCLOSED SOFFIT ATTACHMENT, SEE 9/-.

UPPER LANDING TO SIDE OF BALCONY CONNECTION
SCALE: 1 1/2" = 1'-0" | 3



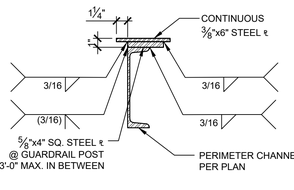
NOTE:
OPTIONAL ENCLOSED SOFFIT NOT ALLOWED AT UPPER LANDING @ FRONT OF BALCONY.

UPPER LANDING EDGE SECTION
SCALE: 1 1/2" = 1'-0" | 4

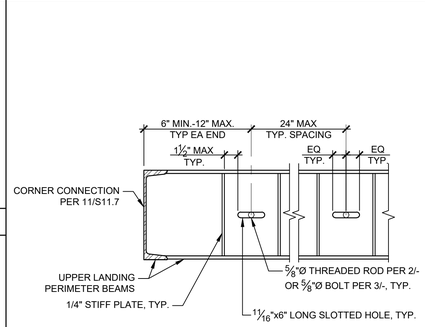


NOTE:
OPTIONAL ENCLOSED SOFFIT NOT ALLOWED AT UPPER LANDING @ FRONT OF BALCONY.

UPPER LANDING EDGE SECTION
SCALE: 1 1/2" = 1'-0" | 5



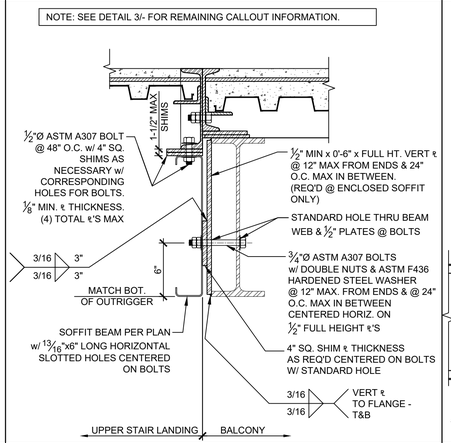
PERIMETER CHANNEL RAILING PLATE ATTACHMENT
SCALE: 1 1/2" = 1'-0" | 6



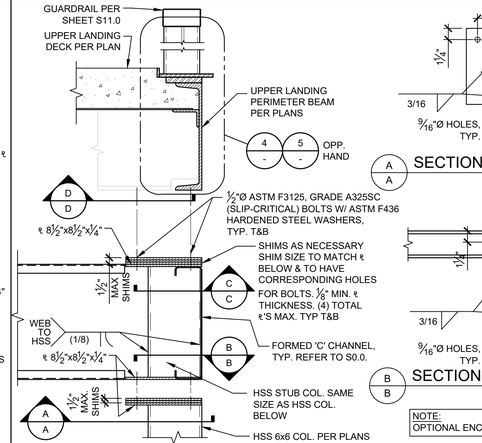
SOFFIT FRAMING DETAIL
SCALE: 1 1/2" = 1'-0" | 7

UPPER LANDING TO BALCONY CONNECTION
(SLOTTED HOLE & STIFFENER PLATE LAYOUT)
SCALE: 1 1/2" = 1'-0" | 8

NOTE: SEE DETAIL 3/- FOR REMAINING CALLOUT INFORMATION.

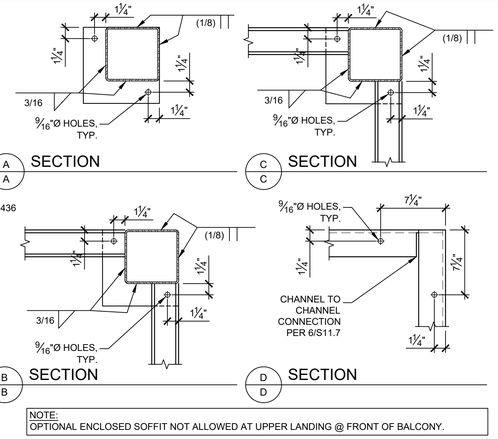


UPPER LANDING TO SIDE OF BALCONY SOFFIT CONNECTION
SCALE: 1 1/2" = 1'-0" | 9



NOTE:
OPTIONAL ENCLOSED SOFFIT NOT ALLOWED AT UPPER LANDING @ FRONT OF BALCONY.

CORNER COLUMN CONNECTION @ OPTIONAL ENCLOSED SOFFIT (SIDES OF BALCONY ONLY)
SCALE: 1 1/2" = 1'-0" | 10



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING
FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT — MARK RICHARD GAULT — No. C34138 — Ren. 3-31-23 — STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT — KEVIN PATRICK GAULT — No. C12631 — Ren. 3-31-23 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — DANNY D. FANN — No. S3385 — STRUCTURAL — STATE OF CALIFORNIA — RST#213137

7/22/2022

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
UPPER LANDING
FRAMING PLANS AND DETAILS

SHEET NUMBER:
S11.6

G:\XXXXX\ 2 Story 4# - 20ft 4.6" - SHEETS 6/17/2022 10:56:48 AM PCHTTEO 6/17/2022 11:07 AM W:\Projects\2021-999\999-999\999-999-21\2 Santa Cruz City Schools - Gault ES\PRELIM\MARK\DWG\Sheets\999 - S3 - 119140 - 31X 6 - Landing Details.dwg

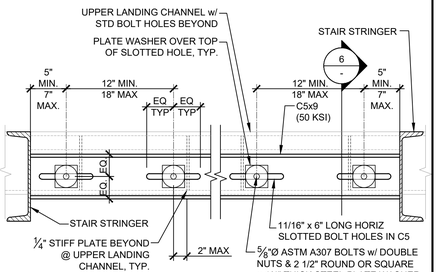
NOT USED

1

STAIR STRINGERS TO UPPER LANDING CONNECTION

SCALE : 1 1/2"=1'-0"

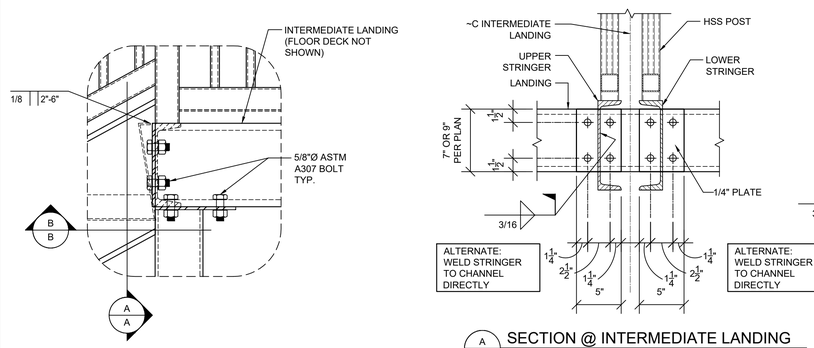
2



STAIR & COLUMNN CONNECTIONS @ INTERMEDIATE LANDINGS

SCALE : 1 1/2"=1'-0"

3



A A SECTION @ INTERMEDIATE LANDING

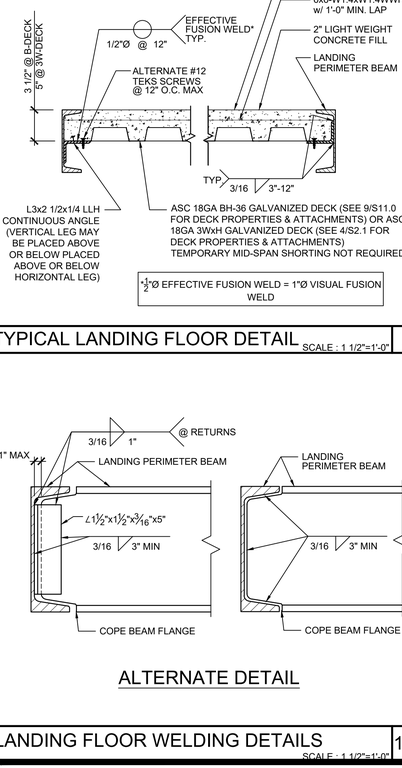
TYPICAL STAIRS TO LANDING CONNECTION

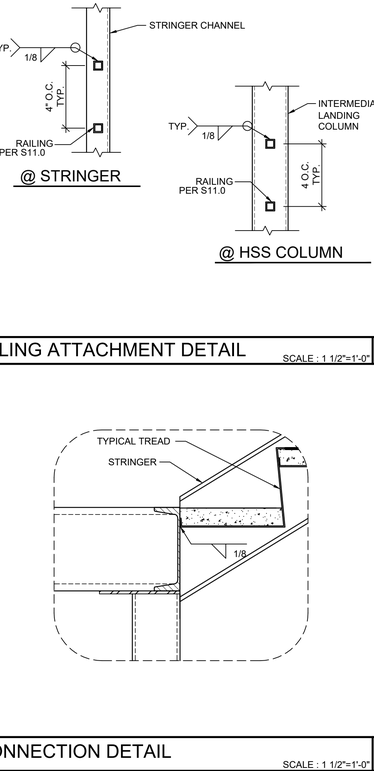
B B SECTION

COLUMN CONNECTION @ UPPER LANDING

SCALE : 1 1/2"=1'-0"

4



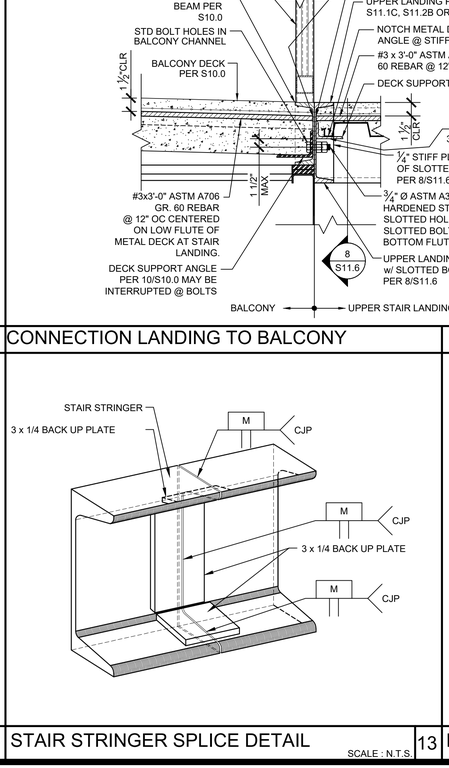


X X SECTION

TREAD & RISER TYPICAL SECTION

SCALE : 1 1/2"=1'-0"

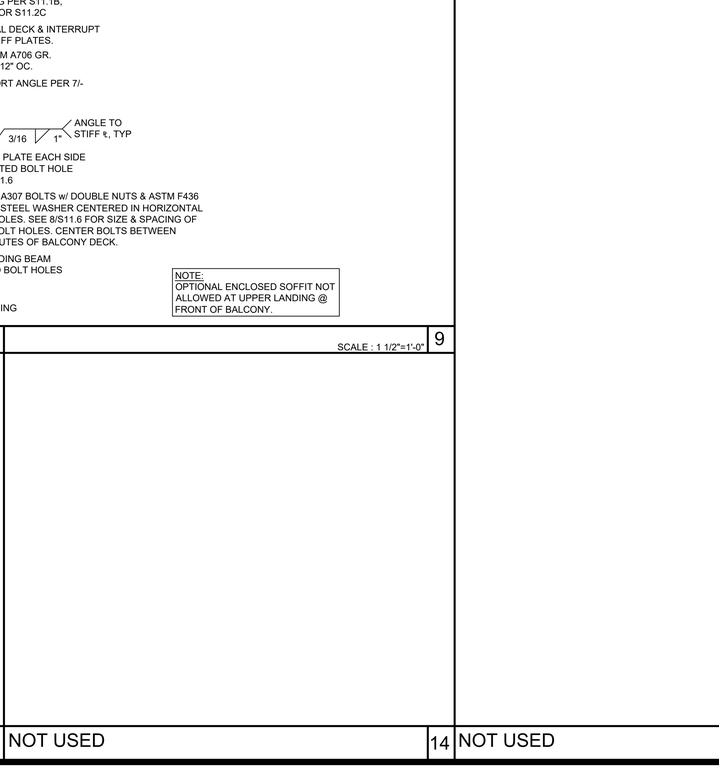
5



CONNECTION STAIRS TO BALCONY / UPPER LANDING

SCALE : 1 1/2"=1'-0"

6



NOTE:
OPTIONAL ENCLOSED SOFFIT NOT ALLOWED AT UPPER LANDING @ FRONT OF BALCONY.

TYPICAL LANDING FLOOR DETAIL

SCALE : 1 1/2"=1'-0"

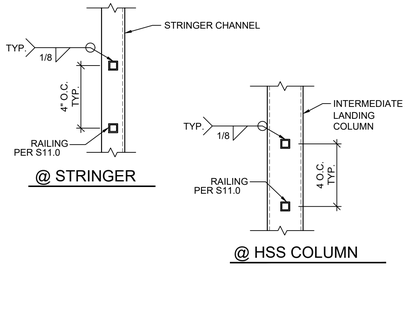
7

*½"Ø EFFECTIVE FUSION WELD = 1"Ø VISUAL FUSION WELD

RAILING ATTACHMENT DETAIL

SCALE : 1 1/2"=1'-0"

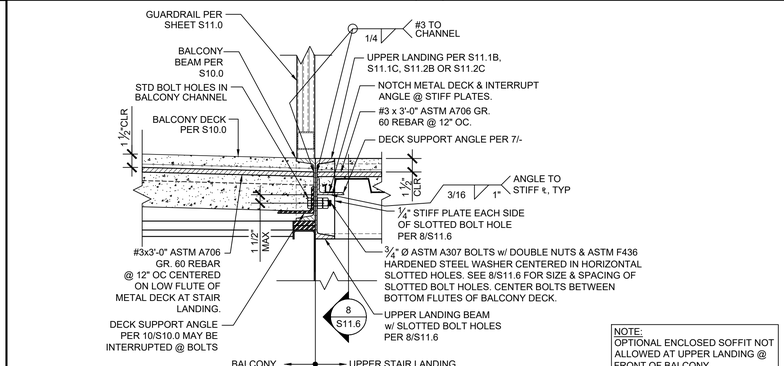
8



CONNECTION LANDING TO BALCONY

SCALE : 1 1/2"=1'-0"

9



NOTE:
OPTIONAL ENCLOSED SOFFIT NOT ALLOWED AT UPPER LANDING @ FRONT OF BALCONY.

LANDING FLOOR WELDING DETAILS

SCALE : 1 1/2"=1'-0"

11

ALTERNATE DETAIL

CONNECTION DETAIL

SCALE : 1 1/2"=1'-0"

12

STAIR STRINGER SPLICE DETAIL

SCALE : N.T.S.

13

NOT USED

14

NOT USED

15

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME

120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK RICHARD WY
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
BRYAN PATRICK DUFFY
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FIGUEROA
No. S3387
STRUCTURAL
STATE OF CALIFORNIA
RST#21137

7/22/2022

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

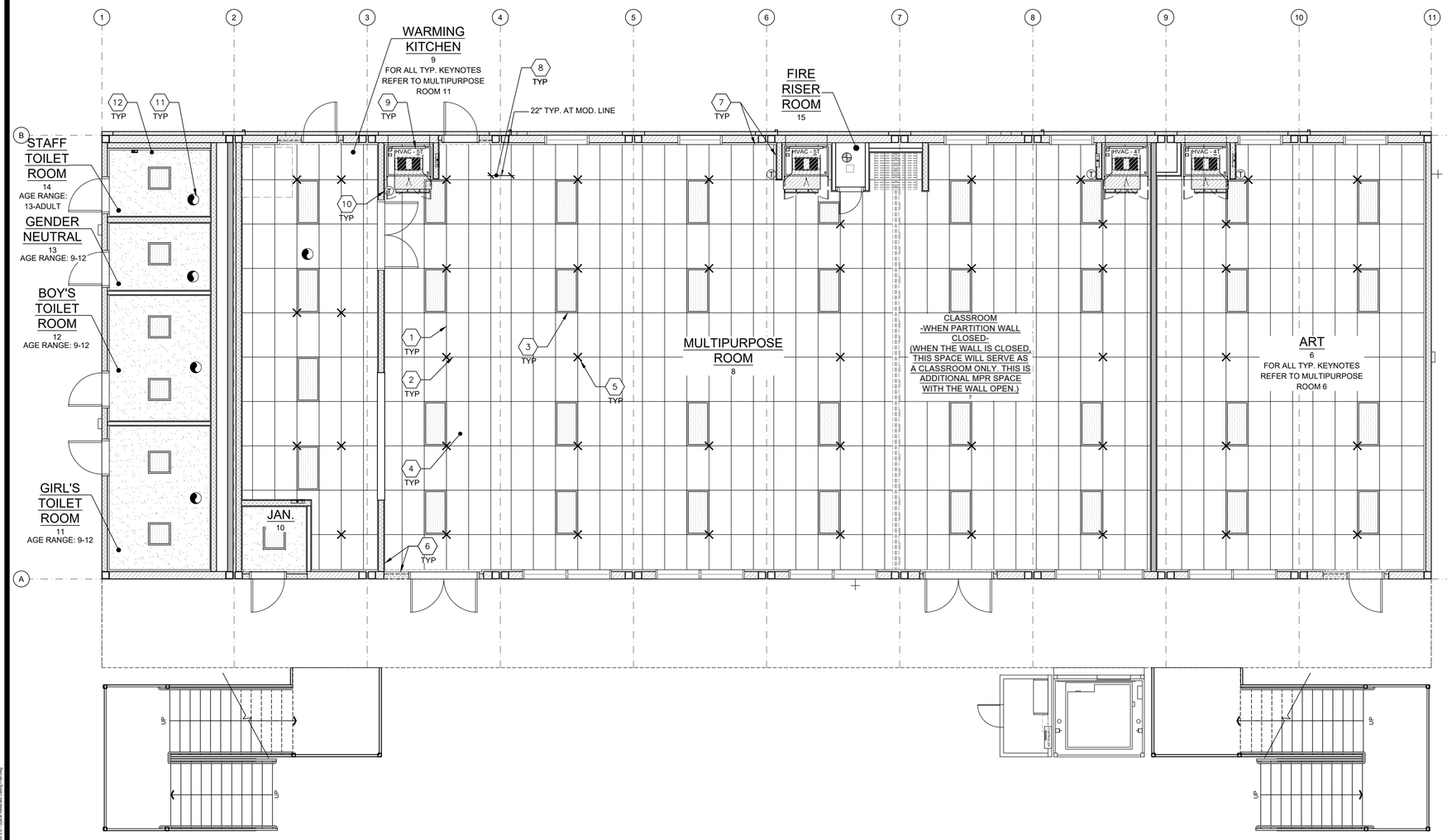
SHEET TITLE:

STAIR
DETAILS

SHEET NUMBER:

S11.7

05-XXXXX 2-Story 40' 28' 4-IP - MVRD 6/21/2022 10:11 AM PLOTTED: 6/21/2022 10:11 AM W:\Projects\000-099\000-099\05-2 Santa Cruz City Schools - Gault ES\PRELIM\WORKSET\S11.7 STAIR DETAILS.dwg



GROUND FLOOR REFLECTED CEILING PLAN

SCALE: 3/16" = 1' - 0" | 1

1. MAIN TEE RUNNER TYP. PER TABLE A, SHEET M1.7
2. CROSS TEE RUNNER TYP. PER TABLE A, SHEET M1.7
3. INTERIOR LIGHT FIXTURE, REFER TO SHEET E1.0 & E1.1 FOR SPEC'S ATTACHMENT PER DETAIL 7/M1.4
4. CEILING HEIGHT @ 8'-6" MIN. REFER TO N3.0
5. STRUT/SPLAY WIRE ASSEMBLY, SEE 3/M1.4 FOR DETAILS
6. FIXED CEILING END, SEE DETAIL 5A/M1.4
7. FREE CEILING END, SEE DETAIL 5B/M1.4
8. CENTER SECTION THAT CROSSES MODULE LINE TO BE FIELD INSTALLED, SEE DETAIL 5C/M1.4
9. TYP. HVAC UNIT
10. THERMOSTAT
11. EXHAUST FAN
12. GYPSUM BOARD CEILING PER DETAIL 8/ M1.6

KEY NOTES

MEP COMPONENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30;

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

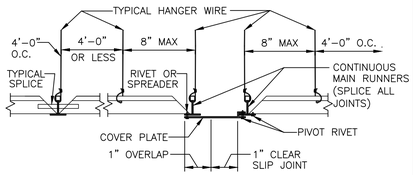
THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☒ MD☒ PP☒ E☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #_____.

MEP COMPONENT ANCHORAGE NOTES



SEISMIC SEPARATION JOINT | 2

SOFFIT VENTING			
NOM. SOFFIT AREA	FACTOR	MIN. VENT AREA (SQ. IN.)	VENT AREA PROVIDED (SQ. IN.)
24 S.F. (2'x12')	1/150	0.1536	60.0
60 S.F. (5'x12')	1/150	0.3840	360.0
96 S.F. (8'x12')	1/150	0.6144	360.0

SOFFIT VENTING | 3

NOT USED | 4

1. WHERE TWO OR MORE HVAC UNITS SERVE A COMMON SPACE, UNITS SHALL BE EQUIPPED WITH A DUCT SMOKE DETECTOR FOR AUTO SHUTDOWN. INTERCONNECT WITH FIRE ALARM SYSTEM.
2. AUTOMATIC SHUT-OFF IS NOT REQUIRED WHEN ALL OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT HAVE DIRECT ACCESS TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FT. PER CMC 608 EXCEPTION #2.
3. FOR CEILING AREA >2,500 SQ. FT. PROVIDE SEISMIC SEPARATION JOINT PER DETAIL 2/M1.0
4. FOR OPTIONAL RESTROOM PLANS SEE SHEET MI.2 & M1.3
5. LIGHTING FIXTURE MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-GRID.

GENERAL NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK RICHARD LEVINE
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
PATRICK CONNOR HOWARD
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

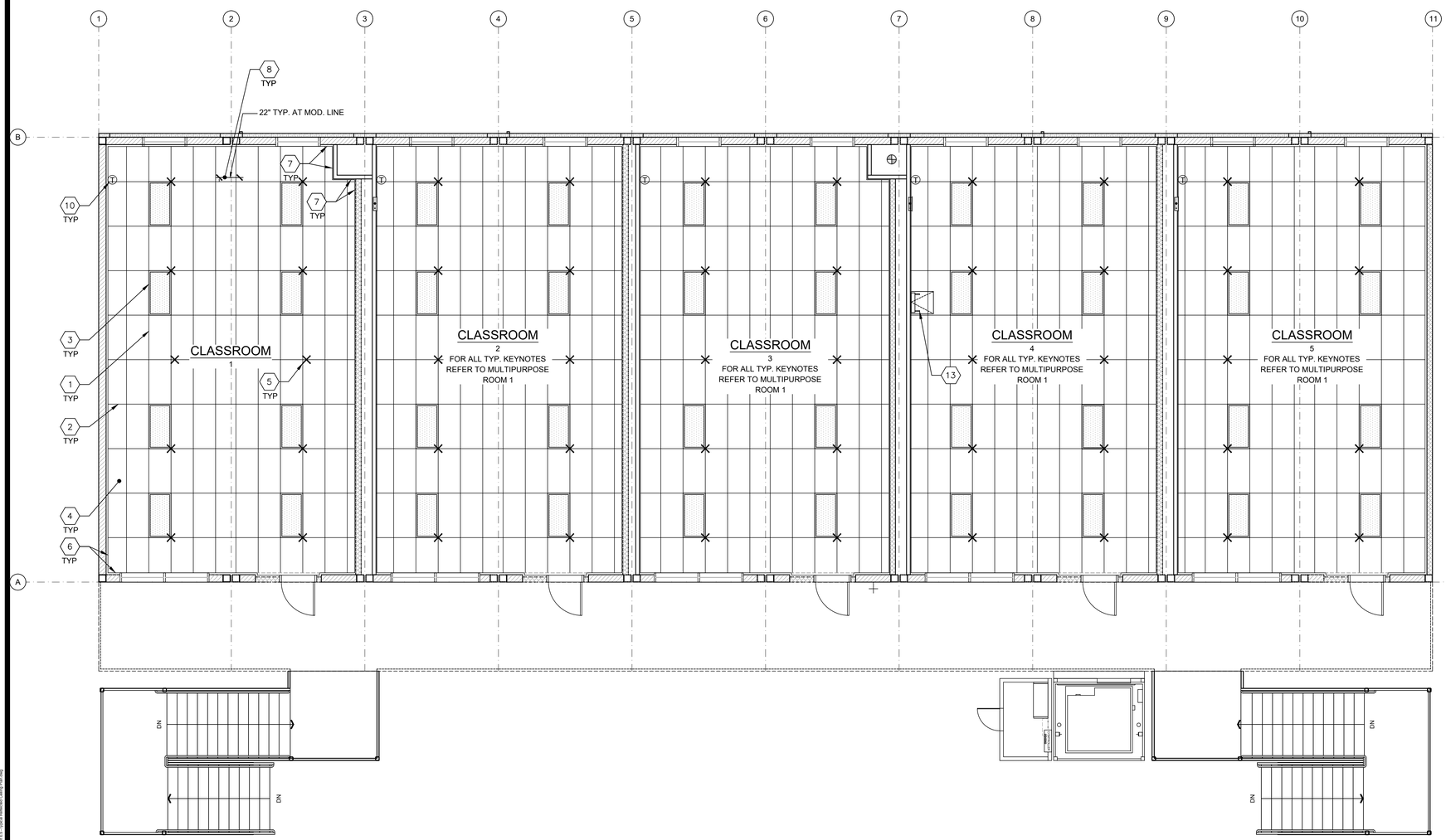
REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/22/22
PROJECT NO:	1657-21

SHEET TITLE:
REFLECTED CEILING PLAN
GROUND FLOOR

SHEET NUMBER:
M1.0A

82-XXXXXX - 2-Story 48' - 2SR 48' - SAVED: 6/2/2022 9:16 AM - PLOTTED: 6/2/2022 9:16 AM - Mark.Neil I:\ref\Projects\1656-1699\1656-1699-0001\R21-21 Santa Cruz City Schools-Gault E-ERRE\SD\M\R1D0M1.dwg - 22 - 119165 - Ed 9 - Typical Reflected Ceiling Plan.dwg



UPPER FLOOR REFLECTED CEILING PLAN

SCALE: 3/16" = 1' - 0" 1

1. MAIN TEE RUNNER TYP. PER TABLE A, SHEET M1.7
2. CROSS TEE RUNNER TYP. PER TABLE A, SHEET M1.7
3. INTERIOR LIGHT FIXTURE, REFER TO SHEET E1.0 - E1.1 FOR SPEC'S ATTACHMENT PER DETAIL 7/M1.4
4. CEILING HEIGHT @ 8'-6" MIN. REFER TO N3.0
5. STRUT/SPLAY WIRE ASSEMBLY, SEE 2/M1.4 FOR DETAILS
6. FIXED CEILING END, SEE DETAIL 5A/M1.4
7. FREE CEILING END, SEE DETAIL 5B/M1.4
8. CENTER SECTION THAT CROSSES MODULE LINE TO BE FIELD INSTALLED, SEE DETAIL 5C/M1.4
9. NOT USED
10. THERMOSTAT
11. NOT USED
12. NOT USED
13. 2'X2' CEILING ACCESS HATCH

KEY NOTES

MEP COMPONENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30;

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☒ MD☒ PP☒ E☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #_____.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME

120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT VIRGINIA PATRICK GRAHAM No. C12631 Ren. 3-31-23 STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT VIRGINIA PATRICK GRAHAM No. C12631 Ren. 3-31-23 STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

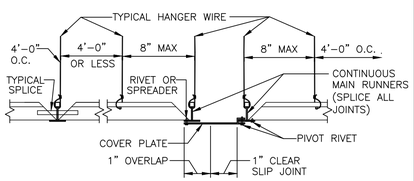
SHEET TITLE:

REFLECTED CEILING PLAN
UPPER FLOOR

SHEET NUMBER:

M1.0B

SEISMIC SEPARATION JOINT 2



SOFFIT VENTING 3

SOFFIT VENTING			
NOM. SOFFIT AREA	FACTOR	MIN. VENT AREA (SQ. IN.)	VENT AREA PROVIDED (SQ. IN.)
24 S.F. (2'x12')	1/150	0.1536	60.0
60 S.F. (5'x12')	1/150	0.3840	360.0
96 S.F. (8'x12')	1/150	0.6144	360.0

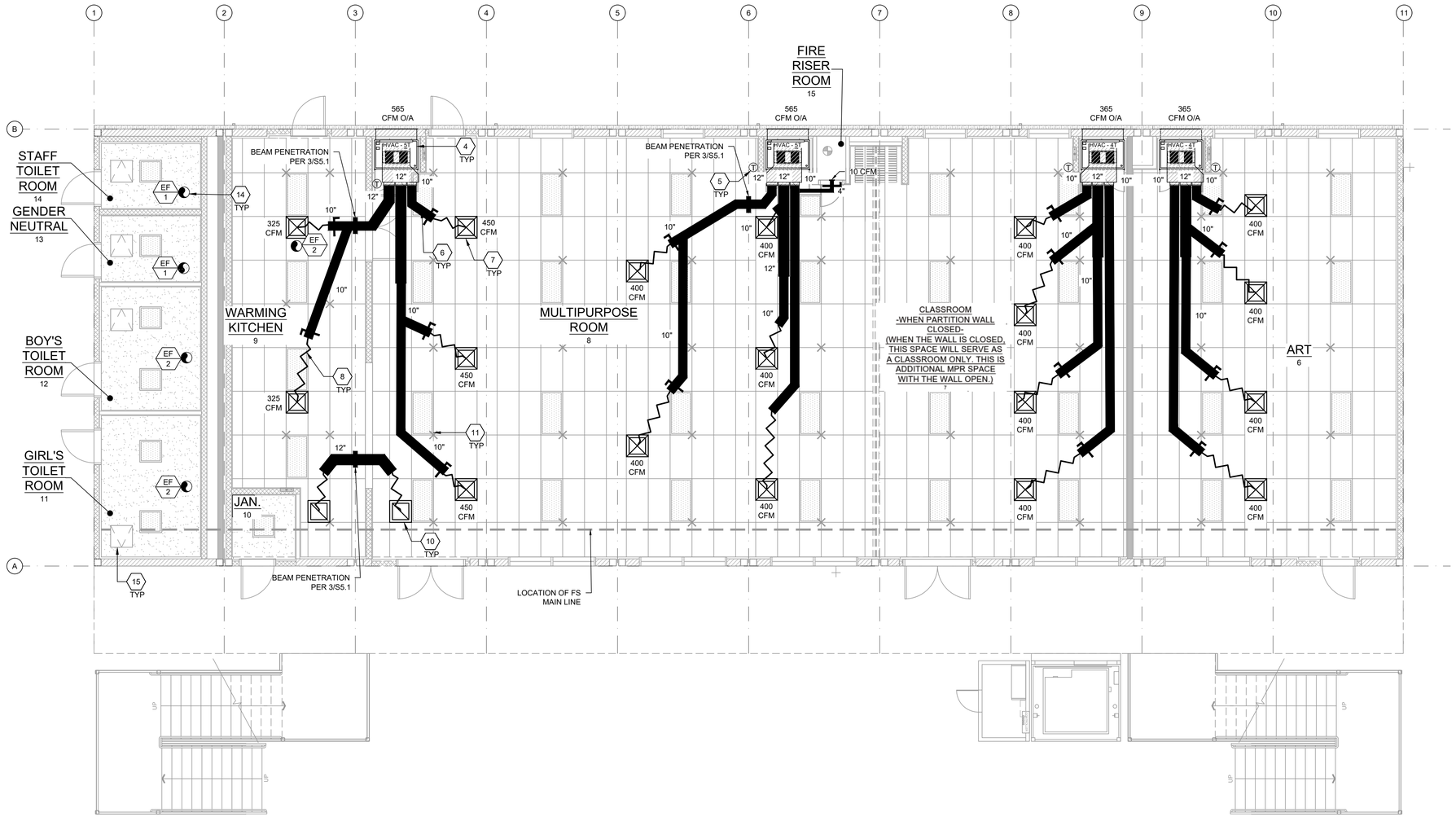
NOT USED 4

GENERAL NOTES

1. WHERE TWO OR MORE HVAC UNITS SERVE A COMMON SPACE, UNITS SHALL BE EQUIPPED WITH A DUCT SMOKE DETECTOR FOR AUTO SHUTDOWN. INTERCONNECT WITH FIRE ALARM SYSTEM.
2. AUTOMATIC SHUT-OFF IS NOT REQUIRED WHEN ALL OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT HAVE DIRECT ACCESS TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FT. PER CMC 608 EXCEPTION #2.
3. FOR CEILING AREA >2,500 SQ. FT. PROVIDE SEISMIC SEPARATION JOINT PER DETAIL 2/M1.0
4. FOR OPTIONAL RESTROOM PLANS SEE SHEET MI.2 & M1.3
5. LIGHTING FIXTURE MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-GRID.

MEP COMPONENT ANCHORAGE NOTES

G:\XXXXX\ 3-Story 48' - 28P (4F GRAT) 9292022 2:17 PM PLOTTED: 6/21/2022 9:19 AM BY: Pringle,Eric\\000-1999\1656-1999\1657-21 Santa Cruz City Schools- Gault ELEMENTARY\MANIFEST\M1.0 - 03 - 113143 - M1.0 - Gault 3-S - Typical Reflected Ceiling Plan.dwg



MECHANICAL PLAN- GROUND FLOOR INTERIOR HVAC SYSTEM

SCALE: 3/16" = 1' - 0" | 1

MARK	DESCRIPTION	CFM	WATTS	S.P.	VOLT/PH	
EF 1	EXHAUST FAN	110	47.3	.10"	120-1Ø	NUTONE AN110 CEILING MOUNTED 180W INPUT 10 LBS (OR EQUAL)
EF 2	EXHAUST FAN	210	127	.125"	120-1Ø	BROAN L200 CEILING MOUNTED 180W INPUT 23 LBS (OR EQUAL)
~~EF 3~~	~~EXHAUST FAN~~	~~308~~	~~212~~	~~.125"~~	~~120-1Ø~~	~~BROAN L300 CEILING MOUNTED 180W INPUT 23 LBS (OR EQUAL)~~

NOTES:

1. VENT EXHAUST FAN THROUGH ROOF.
2. FANS MUST WEIGH LESS THAN 25 LBS.
3. LIGHTING FIXTURES MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-GRID LAYOUT.
4. FOR INSTALLATION DETAILS REFER TO 11 & 16/M1.6

EXHAUST FAN SCHEDULE

1. WHERE TWO OR MORE HVAC UNITS SERVE A COMMON SPACE, UNITS SHALL BE EQUIPPED WITH A DUCT SMOKE DETECTOR FOR AUTO SHUTDOWN. INTERCONNECT WITH FIRE ALARM SYSTEM.
2. AUTOMATIC SHUT-OFF IS NOT REQUIRED WHEN ALL OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT HAVE DIRECT ACCESS TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FT. PER CMC 608 EXCEPTION #2.
3. AIR-MOVING SYSTEMS SUPPLYING AIR IN EXCESS OF 2000 CUBIC FEET PER MINUTE TO ENCLOSED SPACES WITHIN THE BUILDING SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF.
4. LIGHTING FIXTURE MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-GRID LAYOUT.
5. FOR T-BAR CEILING SPECIFICATIONS, SEE M1.7.

GENERAL NOTES

1. NOT USED.
2. NOT USED
3. NOT USED
3A. NOT USED
3B. NOT USED
4. INTERIOR HVAC SYSTEM - SEE 8/M1.4.
5. THERMOSTAT - 46" A.F.F, MAX TO TOP OF BOX
6. CONCEALED SUPPLY AIR DUCT ABOVE T-BAR CEILING - SEE 1/M1.4.
7. TYPICAL 4-WAY SUPPLY AIR REGISTER LOCATION AND SIZE MAY VARY PER CEILING LAYOUT AND BUILDING SIZE - SEE 7/M1.5.
8. FLEX DUCT - NOMINAL 10" MIN. (MAY VARY) - SEE 8/M1.5.
9. RETURN AIR AS PART OF UNIT.
10. RETURN AIR REGISTER - SEE 7/M1.5.
11. STRUT/SPLAY WIRE ASSEMBLY, SEE 2/M1.4 FOR DETAILS.
12. NOT USED
13. CONTINUOUS SOFFIT VENT (PER VENTING CHART).
14. EXHAUST FAN - REFER TO M1.8 FOR INFORMATION
15. ATTIC ACCESS PER 1/M1.5

SOFFIT VENTING			
NOM. SOFFIT AREA	FACTOR	MIN. VENT AREA (SQ. IN.)	VENT AREA PROVIDED (SQ. IN.)
24 S.F. (2'x12')	1/150	0.1536	60.0
60 S.F. (5'x12')	1/150	0.3840	360.0
96 S.F. (8'x12')	1/150	0.6144	360.0

NOTE: FLEXIBLE AIR DUCTS AND CONNECTORS SHALL BE NOT MORE THAN 5 FEET IN LENGTH AND SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS. FLEXIBLE AIR DUCTS SHALL BE PERMITTED TO BE USED AS AN ELBOW AT A TERMINAL DEVICE PER ENERGY CODE 120.4 AND CMC 603.4.1

KEY NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT MARK RICHARD LEON DAVIS No. C12708 Ren. 3-31-23 STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT PATRICK CONNOR No. C12631 Ren. 3-31-23 STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

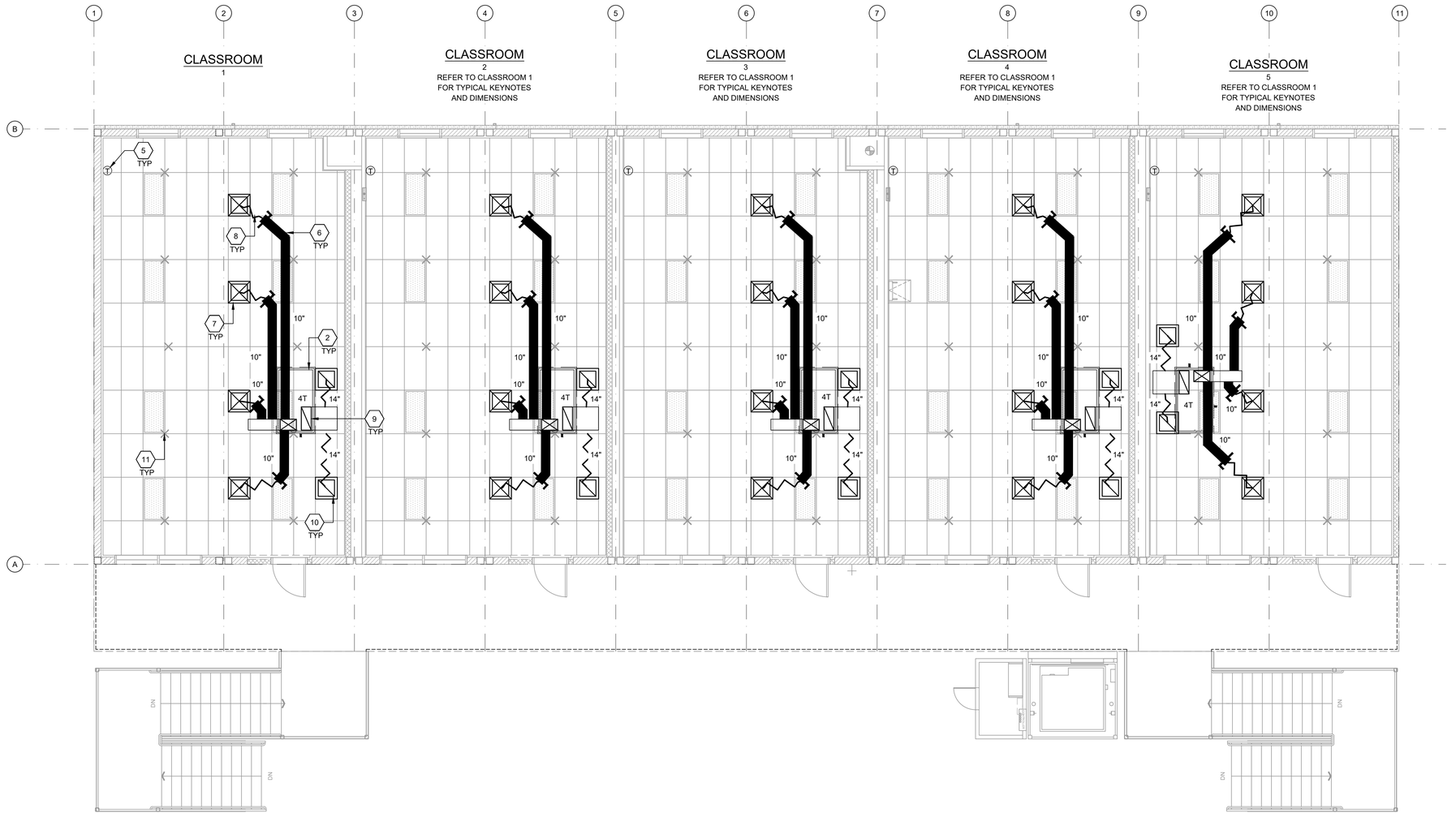
REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
MECHANICAL PLAN
GROUND FLOOR

SHEET NUMBER:
M1.1A

ID:XXXXXX - 2/Dwg ref - 22R ref - Sht#25 5/5/2023 9:23:04 AM PLOTTED: 5/7/2022 10:51 AM W:\Projects\1600-1699\1600-1699-1657-21 Santa Cruz City Schools Gault ES\PRELIM\MAY\DWG\M1_1A2 - 119149_M1.1 sDwt-EB - Mechanical Plan - Option.dwg



MECHANICAL PLAN- UPPER FLOOR ROOF MOUNT OPTION

SCALE: 3/16" = 1' - 0" | 1

NOT USED

GENERAL NOTES

1. WHERE TWO OR MORE HVAC UNITS SERVE A COMMON SPACE, UNITS SHALL BE EQUIPPED WITH A DUCT SMOKE DETECTOR FOR AUTO SHUTDOWN. INTERCONNECT WITH FIRE ALARM SYSTEM.
2. AUTOMATIC SHUT-OFF IS NOT REQUIRED WHEN ALL OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT HAVE DIRECT ACCESS TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FT. PER CMC 608 EXCEPTION #2.
3. AIR-MOVING SYSTEMS SUPPLYING AIR IN EXCESS OF 2000 CUBIC FEET PER MINUTE TO ENCLOSED SPACES WITHIN THE BUILDING SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF.
4. LIGHTING FIXTURE MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-GRID LAYOUT.
5. FOR T-BAR CEILING SPECIFICATIONS, SEE M1.7.

KEY NOTES

1. NOT USED.
2. ROOF MOUNT UNIT - SEE 11/M1.4.
3. NOT USED.
3A. NOT USED.
3B. NOT USED.
4. NOT USED
5. THERMOSTAT - 46" A.F.F, MAX TO TOP OF BOX
6. CONCEALED SUPPLY AIR DUCT ABOVE T-BAR CEILING - SEE 1/M1.4.
7. TYPICAL 4-WAY SUPPLY AIR REGISTER LOCATION AND SIZE MAY VARY PER CEILING LAYOUT AND BUILDING SIZE - SEE 7/M1.5.
8. FLEX DUCT - NOMINAL 10" MIN. (MAY VARY) - SEE 8/M1.5.
9. RETURN AIR AS PART OF UNIT.
10. RETURN AIR REGISTER - SEE 7/M1.5.
11. STRUT/SPLAY WIRE ASSEMBLY, SEE 2/M1.4 FOR DETAILS.
12. NOT USED
13. NOT USED
14. NOT USED
15. NOT USED

NOTE: FLEXIBLE AIR DUCTS AND CONNECTORS SHALL BE NOT MORE THAN 5 FEET IN LENGTH AND SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS. FLEXIBLE AIR DUCTS SHALL BE PERMITTED TO BE USED AS AN ELBOW AT A TERMINAL DEVICE PER ENERGY CODE 120.4 AND CMC 603.4.1

SOFFIT VENTING			
NOM. SOFFIT AREA	FACTOR	MIN. VENT AREA (SQ. IN.)	VENT AREA PROVIDED (SQ. IN.)
24 S.F. (2'x12')	1/150	0.1536	60.0
60 S.F. (5'x12')	1/150	0.3840	360.0
96 S.F. (8'x12')	1/150	0.6144	360.0

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME

120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK EDWARD PAGE
No. C12138
Ren. 11-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
BRYAN PATRICK CHRISTIANSEN
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

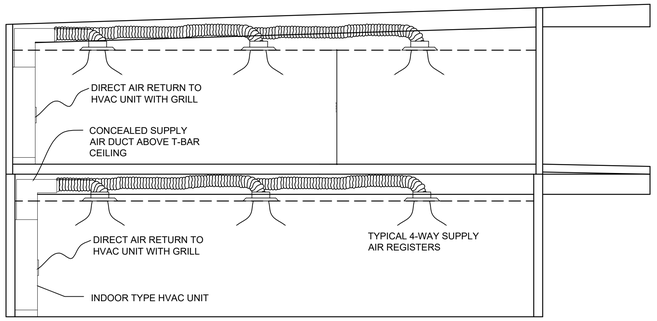
SHEET TITLE:

MECHANICAL PLAN
UPPER FLOOR

SHEET NUMBER:

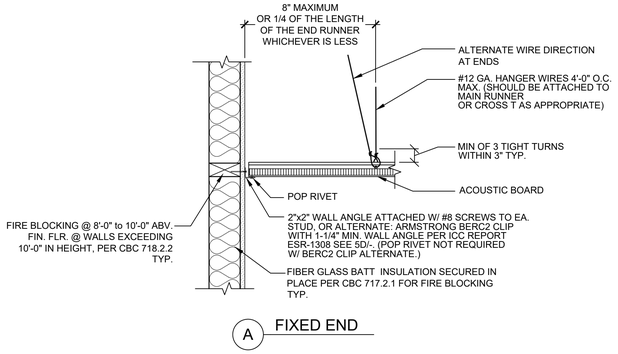
M1.1B

SUXXXXX 2-Story 48' 229 x 48' - UFLOOR - 5/5/2022 8:51 AM - AUTOCAD - 5/5/2022 8:51 AM - M:\Projects\000-099\095-099\095-021\2 Santa Cruz City Schools Gault ELEMENTARY\MARKUPS\095 - 021 - 119189_MK1 - Gault ES - Mechanical Plan - Opening.dwg

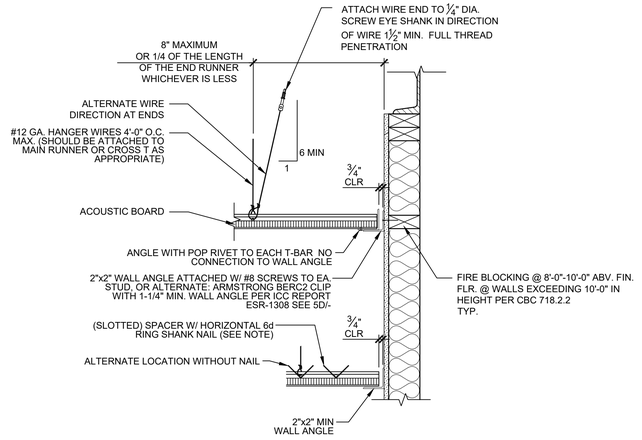


TYPICAL MECHANICAL DETAIL SECTION 1

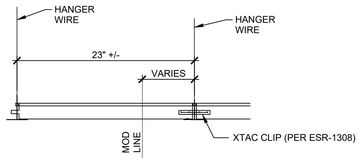
SCALE : 3/16" = 1'-0"



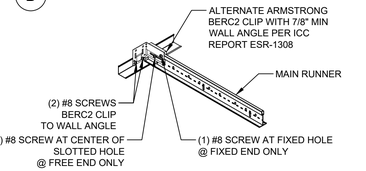
A FIXED END



B FREE END

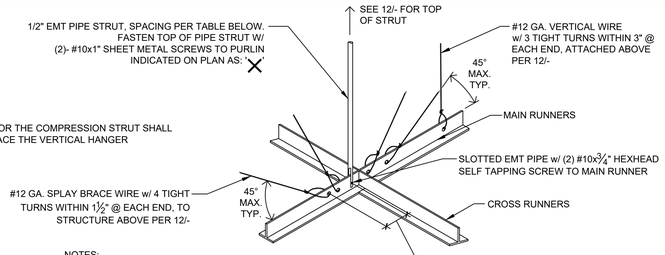


C CROSS RUNNER SPLICE AND CEILING CONNECTION @ MODULE LINE



D ALTERNATE BERC2 CLIP DETAIL

NOTE:
NAILS AT THE END OF HORIZONTAL STRUTS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTERLINE OF SPAN OF STRUT.

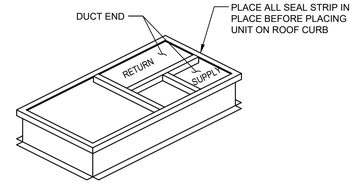


BRACING SCHEDULE	
SITE SPECIFIC S_{DS} (PER SHEET TS)	MAX. SPACING
☒ $S_{DS} \leq 1.15$	12'x12'
☐ $1.15 \leq S_{DS} \leq 1.73$	8'x12'
☐ $S_{DS} > 1.73$	8'x8'

NOTES:
1. MAXIMUM BRACE SPACING SHALL BE PER ADJACENT SCHEDULE.
2. THERE SHALL BE A BRACE ASSEMBLY A DISTANCE OF NOT MORE THAN ONE HALF OF THE ABOVE SPACING FROM EACH SURROUNDING WALL, EXPANSION JOINT AND AT THE EDGES OF ANY CEILING VERTICAL OFFSET. FOR EXAMPLE, WHERE THE BRACE SPACING IS 8'x12", THE DISTANCE SHALL BE 4 FEET IN THE DIRECTION OF THE 8 FOOT SPACING AND 6 FEET IN THE DIRECTION OF THE 12 FOOT SPACING. FOR FURTHER INFORMATION REFER TO SPECIFICATIONS ON SHEET M1.7.

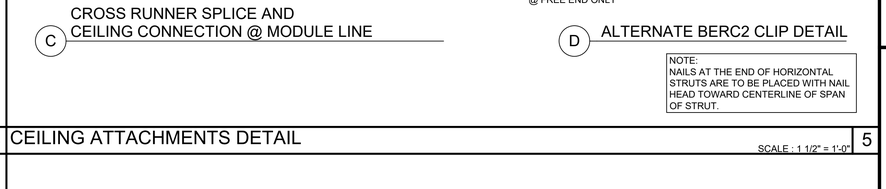
STRUT/SPLAY WIRE ASSEMBLY DETAIL 3

SCALE : N.T.S.



ROOF CURB SEAL DETAIL 4

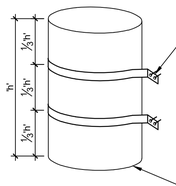
SCALE : N.T.S.



CEILING ATTACHMENTS DETAIL 5

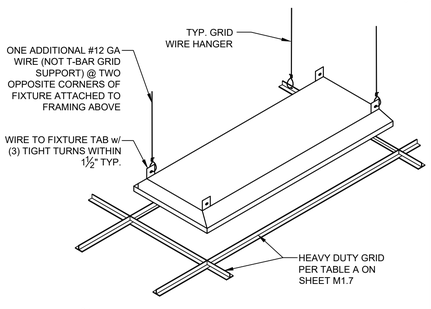
SCALE : 1 1/2" = 1'-0"

GENERAL DETAIL NOTES:
1. TYPICAL HANGER WIRES & VERTICAL STRUTS SHALL BE INSTALLED AT A MAXIMUM 1:6 ANGLE FROM VERTICAL. WHEN COMPRESSION STRUTS ARE OUT OF PLUM, PROVIDE A BLOCKING PERPENDICULAR TO THE SUPPORTING MEMBERS WITHIN 6 IN OF THE STRUCTS.
2. TYPICAL SPLAY BRACING WIRES & WIRES FOR SLACK BRACING OF FIXTURES OR REGISTERS SHALL BE INSTALLED AT A MAXIMUM 45° ANGLE FROM THE SURFACE TO WHICH THEY ARE ATTACHED.
3. SAFETY SLACK WIRES FOR THE FIXTURES OR REGISTERS SHALL BE MAXIMUM 45 DEGREES FROM VERTICAL.



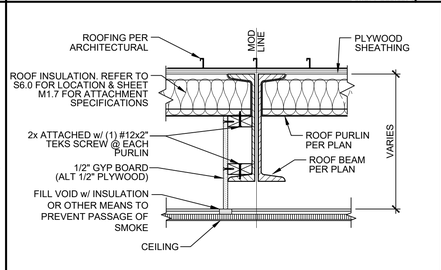
FLOOR MOUNTED WATER HEATER SUPPORT DETAIL 6

SCALE : N.T.S.



LIGHT FIXTURE ATTACHMENT DETAIL 7

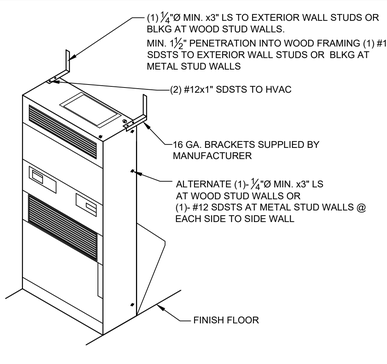
SCALE : N.T.S.



C.B.C. SECTION 718.4.3:
"DRAFTSTOPPING SHALL BE INSTALLED IN ATTICS AND CONCEALED ROOF SPACES, SUCH THAT ANY HORIZONTAL AREA DOES NOT EXCEED 3,000 SQUARE FEET."
NOTE EXCEPTION #2:
IN GROUP A, E, H, I, L OCCUPANCIES, WHERE AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 IS INSTALLED, THE AREA BETWEEN DRAFT STOPS MAY BE 9,000 SQUARE FEET AND THE GREATEST HORIZONTAL DISTANCE MAY BE 100 FEET.

DRAFT STOP DETAIL 8

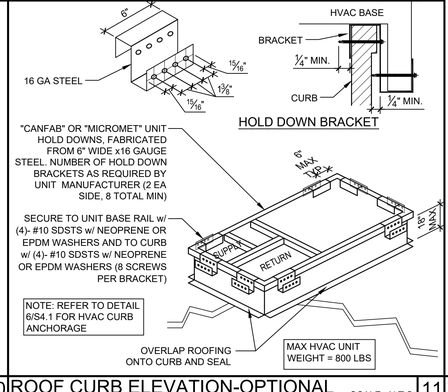
SCALE :1 1/2" = 1'-0"



INTERIOR HVAC ANCHORAGE 9

SCALE : N.T.S.

NOT USED 10



ROOF CURB ELEVATION-OPTIONAL 11

SCALE : N.T.S.

CONNECTION TO PURLINS DETAIL 12

SCALE :1 1/2" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
KEVIN PATRICK CONNOR
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
KEVIN PATRICK CONNOR
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

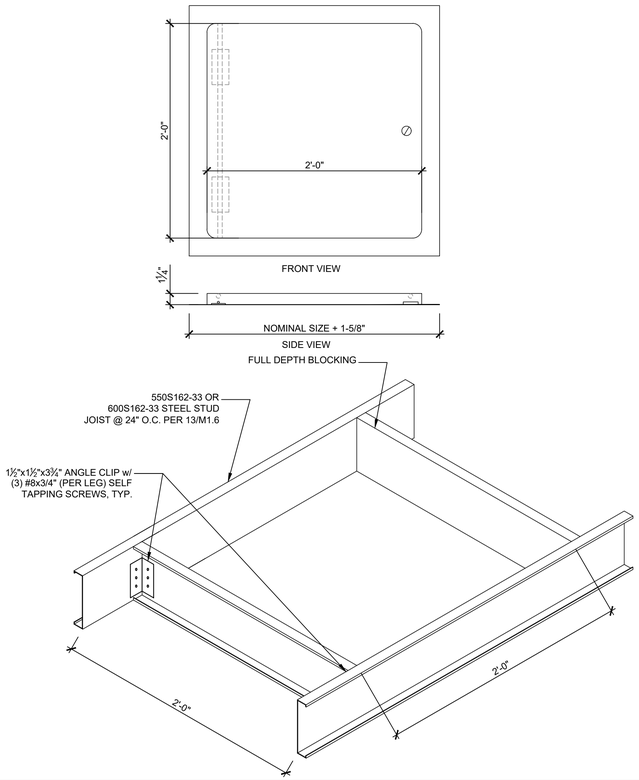
REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
HVAC & CEILING DETAILS

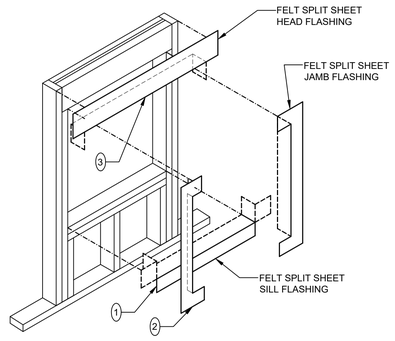
SHEET NUMBER:
M1.4

©XXXXX - J:\ams 4# - 25ft 4-8" - SAVED: 6/1/2022 10:52 AM - M:\Projects\100-199\180-189\189-21 Santa Cruz City Schools Gault ES\PRELIM\M\VORK\M - 02 - 1314-01 - M1.4 - Gault ES - HVAC BLOCK SECT AND DET.dwg

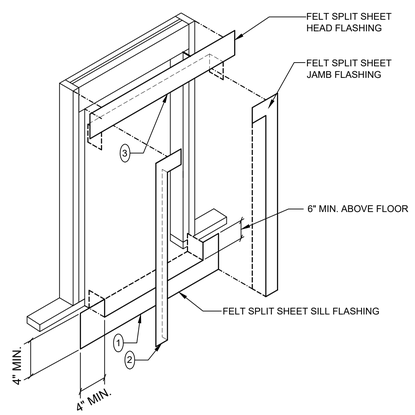


ATTIC ACCESS HATCH DETAIL

SCALE: N.T.S. | 1



WINDOW CONDITION

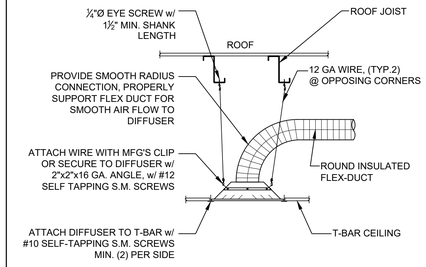


DOOR CONDITION

(#) = SEQUENCE OF ORDER

FLASHING AT WALL OPENINGS

SCALE: N.T.S. | 2

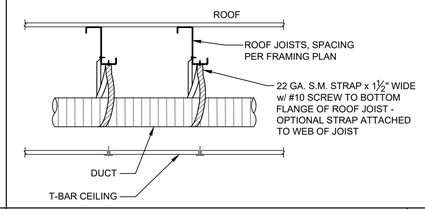


SUPPLY - RETURN DIFFUSER MOUNTING DETAIL

SCALE: N.T.S. | 7

NOTES:

1. DUCTWORK SHALL BE SUPPORTED FROM ROOF JOISTS AT 4'-0" O.C.MAX TO ELIMINATE SAGGING.
2. FLEX DUCT (5'-0" MAX LENGTH) SHALL BE PULLED TIGHT TO ELIMINATE SAGGING.
3. DUCT TO PLENUM ATTACHMENT SHALL BE (3) #8 SCREWS & COVERED WITH 367-17 TAPE (UL181B-FX).
4. FOR DUCT ATTACHMENT TO DIFFUSER - SEE DETAIL 7/-.
5. ALL DUCTS TO BE SEALED WITH 367 MASTIC TAPE. OUTSIDE OF THE INSULATING LINER ON THE FLEX DUCT TO BE SEALED WITH 558CA CODE APPROVED DUCT TAPE.

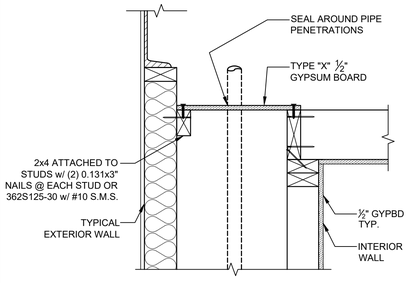


FLEX DUCTING SUPPORT DETAIL

SCALE: N.T.S. | 8

NOT USED

3

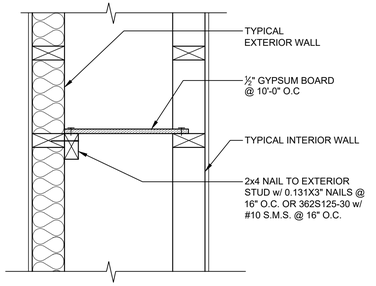


SECTION VIEW

NOTE:
REFER TO DETAILS 8/M1.6 AND 13/M1.6 FOR ADDITIONAL FRAMING DETAILS

FIRE BLOCK DETAIL @ PLUMBING CHASE

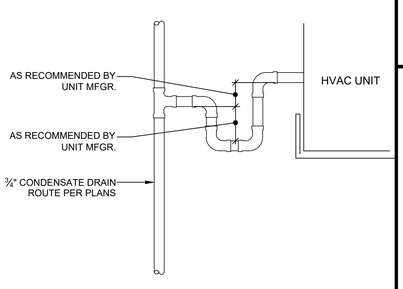
SCALE: N.T.S. | 4



PLAN VIEW

FIRE BLOCK DETAIL @ PLUMBING CHASE

SCALE: N.T.S. | 5

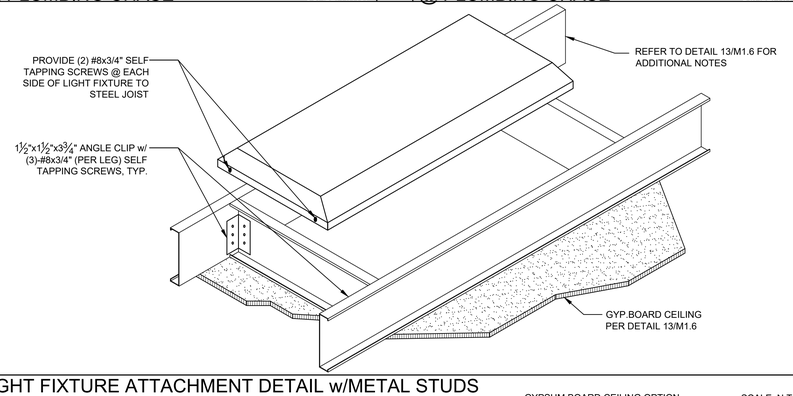


CONDENSATE DETAIL

SCALE: N.T.S. | 9

NOT USED

6



LIGHT FIXTURE ATTACHMENT DETAIL w/METAL STUDS

GYPSUM BOARD CEILING OPTION

SCALE: N.T.S. | 6A

NOT USED

10

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME

120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK RICHARD WARD
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
PATRICK DAVID WARD
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:

CEILING & MECHANICAL DETAILS

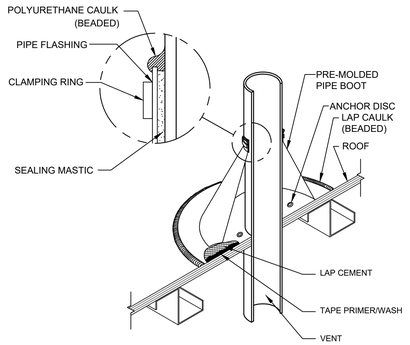
SHEET NUMBER:

M1.5

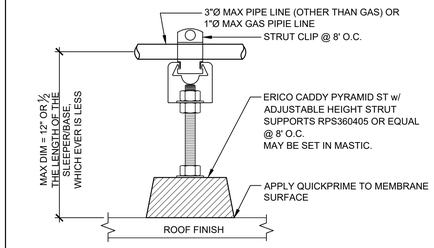
G:\XXXXXX - 2-Story.rvt - 22X34 - 8/4/22 - 12/05/22 2:43 PM - PCUTTO 8/1/2022 10:51 AM - M:\Projects\1600-1699\1600-1699\1657-21 Santa Cruz City Schools Gault ES\REVIT\ARCHITECTURE - R2 - 119149 - M1.5 - Gault ES - Mechanical Building Details.dwg

NOT USED | 1

NOT USED | 1A

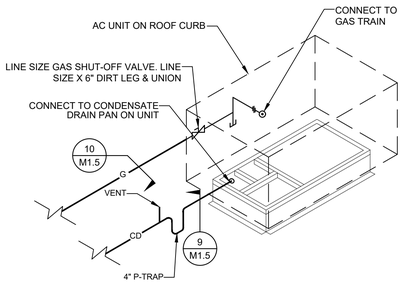


VENT THRU ROOF PENETRATION DETAIL NOT TO SCALE | 2

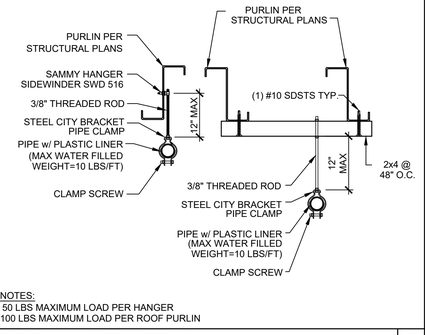


NOTE:
IF PIPE LINE SPANS GREATER THAN 16'-0" BETWEEN THE WALL SUPPORT AND THE HVAC UNIT, POSITIVE ATTACHMENT MUST BE PROVIDED BETWEEN THE BLOCK AND THE METAL ROOF

ROOF-TOP PIPE SUPPORT BLOCK NOT TO SCALE | 3



HVAC UNIT PIPING NOT TO SCALE | 4

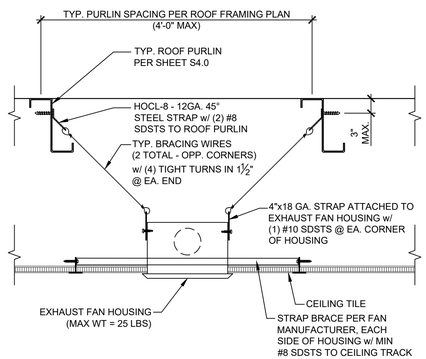


NOTES:
50 LBS MAXIMUM LOAD PER HANGER
100 LBS MAXIMUM LOAD PER ROOF PURLIN

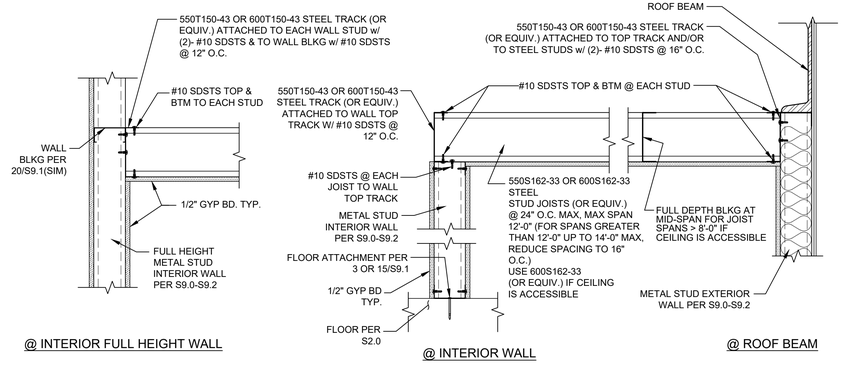
PIPE HANGER DETAIL SCALE: 1-1/2" = 1'-0" | 5

NOT USED | 6

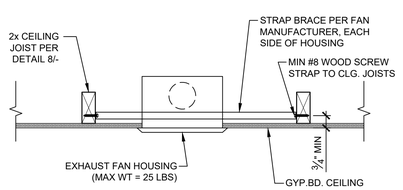
NOT USED | 8



EXHAUST FAN @ T-BAR CEILING MOUNT | 11



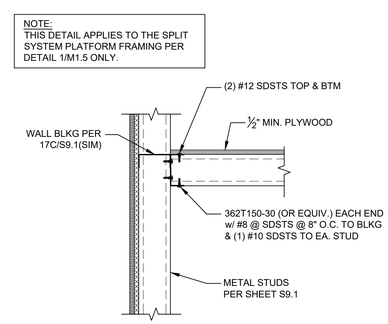
GYPSUM BOARD CEILING DETAIL w/ STEEL STUDS OPTION SCALE: 1-1/2" = 1'-0" | 13



NOT USED SCALE: 3/4" = 1'-0" | 15

EXHAUST FAN @ GYP.BD. CEILING MOUNT | 16

NOT USED | 17



@ INTERIOR WALL

DETAIL @ STEEL STUD OPTION SCALE: 1-1/2" = 1'-0" | 18

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
Wayne Yamamoto
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
WAYNE PATRICK YAMAMOTO
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
MECHANICAL
ROOF DETAILS

SHEET NUMBER:
M1.6

DLXXXXX - 24in.tif - 24" x 48" (SAVED: 10/20/22 12:14 PM PLOTTED: 8/17/2022 10:53 AM - M:\Projects\2021\2021000\2021000-SDD\CAD\1 Santa Cruz City Schools - Gault ES\PRELIM\PRINTS\2021-10 - 11X17 - M1.6 - Gen'l & Mechanical Roofing Details.dwg

1. CEILING GRID SYSTEMS IN SEISMIC ZONES D, E, F, MUST BE RATED "HEAVY DUTY", AS DEFINED BY ASTM C635. PROVIDE GRID COMPONENTS AS SPECIFIED IN TABLE A BELOW, OR APPROVED EQUAL. GRID METAL FRAMING PIECES SHALL BE DESIGNED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOT LESS THAN 180 LBS. IN COMPRESSION AND TENSION, PER ASTM E580.

2. SUSPENSION WIRE SHALL BE CLASS 1 ZINC-COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641. WIRE SHALL BE #12 GAGE WITH SOFT TEMPER AND A MINIMUM TENSILE STRENGTH OF 70 KSI.

3. NOT USED.

4. 12 GA. (MINIMUM) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4'-0" x 4'-0 GRID SPACING, ATTACH TO MAIN RUNNER. SPLICES WILL NOT BE PERMITTED IN ANY HANGER WIRES UNLESS SPECIFICALLY APPROVED BY D.S.A.

5. PROVIDE 12 GA. HANGER WIRES WITHIN 8" OF THE ENDS OF ALL MAIN AND CROSS RUNNERS OR AT 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, AT THE PERIMETER OF THE CEILING AREA.

6. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAINTAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS. HANGER WIRES THAT ARE MORE THAN 1:6 OUT OF PLUMB ARE TO HAVE COUNTER-BRACED WIRES.

7. CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 3/4 INCH CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE AND A MINIMUM OF 3/4 INCH CLEAR OF WALL.

8. PERIMETER SUPPORT ANGLES SHALL BE AT LEAST 2 INCHES WIDE, OR USE PROPRIETARY BERC2 CLIPS PER 5D/M1.4

9. AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16 GA. WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNERS MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNERS IS 8" OR LESS, THIS INTERLOCK IS NOT REQUIRED.

10. PENETRATIONS THROUGH THE CEILING, SUCH AS FIRE SPRINKLERS, SHALL HAVE A 2 INCH OVERSIZED RING, SLEEVE OR ADAPTER TO ALLOW FREE MOVEMENT INDEPENDENT OF THE CEILING. ALTERNATE: A FLEXIBLE SPRINKLER FITTING THAT ALLOWS 1 INCH OF MOVEMENT CAN BE USED.

11. LATERAL FORCE BRACING IS REQUIRED FOR ALL CEILINGS, EXCEPT CEILING AREAS OF 144 SQUARE FEET OR LESS WITH PERIMETER WALLS THAT ARE DESIGNED TO CARRY THE CEILING LATERAL FORCES.

12. LATERAL FORCE BRACING CONSISTS OF A SET OF 1 COMPRESSION STRUT AND FOUR #12 GA. SPLAYED BRACING WIRES, ORIENTED 90 DEGREES FROM EACH OTHER AT THE FOLLOWING SPACING:
    (A) FOR SCHOOL BUILDINGS, PLACE SETS OF SPLAY WIRES AT A SPACING NOT MORE THAN 12 FEET BY 12 FEET ON CENTER.
    (B) PROVIDE SPLAY WIRES AT LOCATIONS NOT MORE THAN 1/2 THE ABOVE SPACING FROM EACH PERIMETER WALL OR AT THE EDGE OF VERTICAL CEILING OFFSETS. THE SLOPE OF THESE WIRES SHOULD NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND SHOULD BE TAUT WITHOUT CAUSING THE CEILING TO LIFT.

13. COMPRESSION STRUTS SHALL BE ABLE TO RESIST THE VERTICAL PUSH INDUCED BY BRACING WIRES, AND SHALL NOT BE MORE THAN 1:6 OUT OF PLUMB. WHEN COMPRESSION STRUTS ARE OUT OF PLUM, PROVIDE A BLOCKING PERPENDICULAR TO THE SUPPORTING MEMBERS WITHIN 6IN OF THE STRUCTS.

14. FASTEN HANGER WIRES WITH NOT LESS THAN 3 TIGHT TURNS WITHIN A DISTANCE OF 3 INCHES. FASTEN SPLAY WIRES WITH 4 TIGHT TURNS WITHIN A DISTANCE OF 1-1/2 INCHES. HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING ON THE WIRE.

15. SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT ETC.

16. ATTACH ALL LIGHT FIXTURES AND AIR TERMINALS TO THE CEILING GRID RUNNERS WITH SCREWS OR APPROVED FASTENERS AS REQUIRED TO RESIST A HORIZONTAL FORCE EQUAL TO THE FIXTURES' WEIGHT. MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH LIGHT FIXTURE.

17. FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM, BUT THEY MUST HAVE A MINIMUM OF TWO #12 GA. SLACK SAFETY WIRES ATTACHED AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. FIXTURES WEIGHING LESS THAN 10 POUNDS MAY HAVE AT LEAST ONE #12 GA. SLACK SAFETY WIRE.

18. LIGHT FIXTURES AND OTHER CEILING DEVICES WEIGHING MORE THAN 56 POUNDS SHALL BE INDEPENDENTLY SUPPORTED BY NO LESS THAN FOUR (4) TAUT #12 GAGE WIRES, ATTACHED TO THE STRUCTURE ABOVE. WIRES MUST BE ABLE TO SUPPORT FOUR (4) TIMES THE WEIGHT OF THE UNIT.

19. ALL LIGHT-WEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID PER CBC 2019, 1617.11.16 ASCE 7, SECTION 13.5.6.2. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS SHALL HAVE A #12 GAUGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE. DEVICES WEIGHING MORE THAN 20 LBS. SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE.

20. PANELS THAT WEIGH MORE THAN 0.5 LBS/SQ.FT. (PSF), OTHER THAN MINERAL FIBER ACOUSTIC TILES, SHALL BE POSITIVELY ATTACHED TO CEILING SUSPENSION RUNNERS.

21. ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL-FACED FIBERGLASS, LAY-IN PANELS, SQUARE EDGE, ASTM FLAME SPREAD CLASS T, 24"x48" MODULAR SIZE, LIGHT REFLECTION 75% MINIMUM, NOISE REDUCTION COEFFICIENT OF 0.65 MINIMUM, MAXIMUM SMOKE DENSITY NOT TO EXCEED 450. FLAME SPREAD RATING MAXIMUM OF 200. PANELS ARE NOT ALLOWED TO SUPPORT ANY FIXTURE, TERMINAL OR DEVICE.

22. THERMOSTAT SHALL BE PROGRAMMED TO PREVENT SUPPLEMENTARY HEATER OPERATION WHEN THE HEATING LOAD CAN BE MET BY THE HEAT PUMP ALONE. THE CUT-ON TEMPERATURE FOR COMPRESSION HEATING MUST BE HIGHER THAN THE CUT-ON TEMPERATURE FOR SUPPLEMENTARY HEATING, AND THE CUT-OFF TEMPERATURE FOR COMPRESSION HEATING MUST BE HIGHER THAN THE CUT-OFF TEMPERATURE FOR SUPPLEMENTARY HEATING PER CEC 2019 SECTION 110.2(b).

TABLE A - HEAVY DUTY GRID COMPONENTS

MANUFACTURER	MAIN TEE	H.D. 4' CROSS TEE	H.D. 2' CROSS TEE	RUNNER SPLICE DETAIL	ICBO ER REPORT
DONN/USG	DX-26	DX-424	DX-216	N/A	ICC-ESR-1222
ARMSTRONG	7301	XL7341	XL8320	N/A	ICC-ESR-1308
CHICAGO/ROCKFON	200.01	1274.01	1202.01	N/A	ICC-ESR-2631

NOTE: ALL GRID COMPONENTS SHALL BE BY THE SAME MANUFACTURER

METAL SUSPENSION SYSTEMS FOR LAY IN PANEL CEILING

HVAC CFM CHART

	MODEL #	DESCRIPTION	MAX. CFM	UNIT WEIGHT (LBS)	EER	COP	CLIMATE ZONE(S)
INTERIOR HVAC	~~W36HB~~	~~3 TON HEAT PUMP~~	~~1143~~	~~500~~	~~11~~	~~3.3~~	~~1-16~~
	~~W42HC~~	~~3½ TON HEAT PUMP~~	~~1140~~	~~500~~	~~11~~	~~3.3~~	~~1-16~~
	CAH - 1	4 TON HEAT PUMP	1500	1100	12.7	4.1	1-16
	CAH - 2	5 TON HEAT PUMP	1500	1100	12.7	4.1	1-16

HVAC CFM CHART

	MODEL #	DESCRIPTION	MAX. CFM	UNIT WEIGHT (LBS)	EER	SEER	CLIMATE ZONE(S)
CARRIER ROOF MOUNT	~~50VT-C36---3--TP~~	~~3 TON HEAT PUMP~~	~~1200~~	~~371~~	~~12.0~~	~~14.5~~	~~1-16~~
	~~50VT-C42---3--TP~~	~~3½ TON HEAT PUMP~~	~~1400~~	~~412~~	~~12.0~~	~~14.5~~	~~1-16~~
	50VT-C48---3--TP	4 TON HEAT PUMP	1600	432	12.0	14.5	1-16
	~~50VT-C60---3--TP~~	~~4½ TON HEAT PUMP~~	~~1750~~	~~462~~	~~12.0~~	~~14.2~~	~~1-16~~

HVAC CFM CHART

	MODEL #	DESCRIPTION	AIR HANDLER MODEL # (INTERIOR OR ATTIC MOUNTED)	MAX. CFM	UNIT WEIGHT (LBS)	EER	SEER	CLIMATE ZONE(S)
CARRIER SPLIT DX SYSTEM	25HCE436A003	3 TON HEAT PUMP	FX4DN037	1200	157	11.5	14.0	1-16
	25HCE442A003	3½ TON HEAT PUMP	FX4DN043	1400	157	11.5	14.0	1-16
	~~25HCE448A003~~	~~4 TON HEAT PUMP~~	FX4DN049	1600	185	11.5	14.0	1-16
	25HCE460A003	4½ TON HEAT PUMP	FX4DN061	2000	201	11.5	14.0	1-16

HVAC SCHEDULE

BUILDING SIZE	# OF HVAC ZONES 1-14			CLIMATE	# OF HVAC ZONE 15			CLIMATE	# OF HVAC ZONE 16			CLIMATE
	3 TON HVAC	3½ TON HVAC	4 TON HVAC	4½ TON HVAC	3 TON HVAC	3½ TON HVAC	4 TON HVAC	4½ TON HVAC	3 TON HVAC	3½ TON HVAC	4 TON HVAC	4½ TON HVAC
☐ 24'x40'		1					1			1		
☐ 36'x40'			1					1			1	
☐ 48'x40'		2					2			2		
☐ 60'x40'			2					2			2	
☐ 72'x40'		3					3			3		
☐ 84'x40'			3					3			3	
☐ 96'x40'		4					4			4		
☐ 108'x40'			4					4			4	
☒ 120'x40'		5					5			5		

NOTE: FOR BUILDING LARGER THAN 120' x 40', AREA MAY BE DIVIDED INTO SMALLER AREAS TO DETERMINE # OF HVAC REQUIRED.

MINIMUM INSULATION SCHEDULE

ZONE	WALL	ROOF		FLOORS (NON-CONCRETE)	CONCRETE FLOORS
		BATTS	RIGID		
1-2	*R-13	**R-19	R-10	R-13	N/A
3-15	*R-13	**R-19	R-5	R-13	N/A
16	*R-13	**R-19	R-15	R-13	N/A

* IN ADDITION TO R-13 BATT INSULATION, R-4 RIGID INSULATION TO BE USED OVER METAL FRAMED WALLS
** SECURED w/ 22 GA WIRE @ 16" O.C.

ADDITIONAL HVAC NOTES:
MANUAL OVERRIDE CONTROLS ARE A MANDATORY MEASURE UNDER ENERGY CODE SECTION 120.2(e). ALL HVAC SYSTEMS SHALL HAVE A MANUAL OVERRIDE ACCESSIBLE TO THE OCCUPANTS THAT ALLOWS THEM TO TURN ON THE HVAC SYSTEM DURING NORMAL UNOCCUPIED TIMES. THIS CAN BE A MANUAL OVERRIDE FOR UP TO 4 HOURS, OCCUPANCY SENSOR, OR A 4 HOUR MANUALLY OPERATED TIMER.

HVAC SCHEDULES

HEATING VENTILATING AND AIR CONDITIONING (HVAC)

1. HEAT PUMP: SINGLE PACKAGE WALL-MOUNTED AIR-TO-AIR ELECTRIC HEAT PUMP UNIT SHALL BE RATED IN ACCORDANCE WITH A.R.I. STANDARD 240-77. MAXIMUM AC SIZE FOR THIS BUILDING WILL BE A 5-TON UNIT. ALL UNITS SHALL BE 230/208 VOLT, 1 PHASE SYSTEM, UL TESTED & APPROVED OR COMPARABLE, AND MEET CURRENT ENERGY STANDARDS.
   A. THE SYSTEM SHALL MAINTAIN AN AUTOMATICALLY CONTROLLED INDOOR CLASSROOM TEMPERATURE OF 78 DEGREES F. WHEN THE OUTDOOR DRY BULB TEMPERATURE VARIES BETWEEN 100 DEGREES F. IN THE SUMMER.
   B. THE SYSTEM MUST MAINTAIN THE ABOVE TEMPERATURE WHEN THE DAMPER IS ADJUSTED TO USE APPROXIMATELY ONE-THIRD FRESH AIR.
2. DUCTWORK
   A. CONSTRUCT ALL DUCTWORK OF GALVANIZED SHEET METAL IN ACCORDANCE WITH C.M.C., ASHRAE GUIDE EQUIPMENT VOLUME, AND SMACNA LOW VELOCITY DUCT CONSTRUCTION MANUAL, LATEST EDITIONS. ALL DUCTWORK SHALL BE INSULATED WITH 1" THICK FIBERGLASS DUCT WRAP WITH VAPOR BARRIER. PROVIDE 1" DUCT ATTENUATION AT ALL DUCTWORK WITHIN 2'-0" OF HVAC UNIT.
   B. NON-METALLIC DUCTWORK OPTION: IN ACCESSIBLE CONCEALED PORTIONS OF DUCT SYSTEM, RIGID 1" FIBERGLASS OR INSULATED FLEX-DUCT WITH VAPOR BARRIER MAY BE SUBSTITUTED FOR SHEET METAL DUCTWORK. ALL DUCTWORK WITHIN 2'-0" OF THE HVAC UNIT AND ALL INTERFACE CONNECTIONS SHALL BE METAL. DUCTWORK AND REINFORCEMENT SHALL BE DESIGNED FOR 2" STATIC PRESSURE. REFERENCE BRANDS: OWENS-CORNING FIBERGLASS DUCTBOARD, 1" THICK, AND MICRO-AIRE TYPE 475. NON-METALLIC DUCTWORK SHALL CONFORM TO NFPA 90-A AND SMACNA CLASS 1 RATING.
   C. DUCT INSTALLATION AND PLENUMS SHALL MEET THE REQUIREMENTS OF ENERGY CODE SECTION 120.4 AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. HORIZONTAL FLEX DUCT SHALL BE SUPPORTED AT A MAXIMUM 4' INTERVALS, WITH HANGING STRAPS A MINIMUM 1-1/2" WIDE. DUCTS MUST BE PULLED TIGHTS WITH A MAXIMUM SAG OF 1/2" PER FOOT OF HORIZONTAL RUN. DUCTS SHALL NOT BE KINKED OR CRUSHED. BEND/RADIUS EQUAL TO THE DUCT DIAMETER OR GREATER.
   D. SIZES OF SUPPLY AND RETURN DUCTS SHALL BE SPECIFIED ON PLANS. HVAC CURB SUPPLY AND RETURN DUCTS SHALL BE THE SAME SIZE AND ALLIGN WITH THE HVAC UNIT.
   E. FLEXIBLE AIR DUCTS AND CONNECTORS SHALL BE NOT MORE THAN 5 FEET IN LENGTH AND SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS. FLEXIBLE AIR DUCTS SHALL BE PERMITTED TO BE USED AS AN ELBOW AT A TERMINAL DEVICE PER ENERGY CODE 120.4 AND CMC 603.4.1
3. AIR DUCT INSULATION AND LININGS SHALL COMPLY WITH FLAME SPREAD LESS THAN OR EQUAL TO 25, SMOKE GENERATION LESS THAN OR EQUAL TO 50.
4. SUPPLY AIR DIFFUSERS SHALL BE 675 CFM MAXIMUM, 12" ROUND. 1" FIBERGLASS OR FLEXDUCT DUCTWORK SPECIFICALLY DESIGNED TO PROVIDE AIR THERMAL COOLING SYSTEMS. 24"x8"x1" MICRO-AIRE TYPE #475 OWENS-CORNING, KNAUF, CERTAINTEED, OR EQUAL AND 90-B; UL #131 TEST, CLASS 1 RATING WITH "SMACNA".
5. REGISTERS AND DIFFUSERS: PROVIDE THREE (MINIMUM) 4-WAY THROW AIR DIFFUSERS AS MANUFACTURED BY CARNES, TITUS, HART AND COOLEY, METALAIRE, SHOEMAKER, BARBER-COLEMAN OR KRUEGER COMMERCIAL GRADE GRILLS AND REGISTERS.
6. AIR CONDITIONING CONTROLS: PROVIDE ELECTRONIC PROGRAMMABLE THERMOSTAT. THERMOSTAT SHALL BE PROGRAMMED WITH EXPECTED OCCUPIED TIMERS. AIR HANDLER FAN WILL BE PROGRAMMED TO RUN DURING ALL OCCUPIED TIMES. PRE-OCCUPANCY PURGE SHALL BE PROGRAMMED ONE HOUR PRIOR TO THE MODULAR BUILDING BEING NORMALLY OCCUPIED.
   THERMOSTAT SHALL HAVE THE FOLLOWING FUNCTIONS:
   A. 5 AND 2 WEEKDAY/WEEKEND PROGRAMMING DAYS WITH 4 SEPARATE TIME/TEMPERATURE SETTINGS FOR A 24-HOUR PERIOD.
   B. KEY BOARD LOCKOUT SWITCH.
   C. PROGRAMMABLE DISPLAY.
   D. 2-HOUR OVERRIDE MINIMUM.
   E. STATUS INDICATED LED'S.
   F. BATTERY BACK-UP.
   G. PROVIDE LOCKING CLEAR THERMOSTAT COVER WITH THERMOSTAT COVER WITH ACCESS HOLE FOR PROGRAM OVERRIDE. WHITE RODGERS IF92-371. MOUNT TOP OF BOX @ 48" A.F.F. MAX. (WHERE SEALED, SETTINGS & ADJUSTMENTS CAN BE DONE BY SERVICE PERSONNEL ONLY.)
7. THERMAL INSULATION
   A. ROOF INSULATION: R-19 WITH 22 GA. WIRE @ 16" O.C. & R-1 TOP OF PURLINS.
   B. WALLS INSULATION: R-13 KRAFT FACED. (R-4 INSULATION OVER METAL FRAMED WALLS)
   C. NON-CONCRETE FLOORS INSULATION: R-13
   D. CONCRETE FLOORS INSULATION: N/A
   E. FLAME SPREAD AND SMOKE DEVELOPMENT SHALL CONFORM TO CALIFORNIA BUILDING CODE SEC. 720.
8. FACTORY-MADE AIR DUCTS
   A. FACTORY-MADE AIR DUCTS SHALL BE APPROVED FOR THE USE INTENDED OR SHALL CONFORM TO THE REQUIREMENTS OF C.M.C. SECTION 601.0.
   B. EACH PORTION OF A FACTORY-MADE AIR DUCT SYSTEM SHALL BE IDENTIFIED BY THE MANUFACTURER WITH A LABEL OR OTHER SUITABLE IDENTIFICATION INDICATING COMPLIANCE WITH C.M.C. SECTION 601.0 AND ITS CLASS DESIGNATION. THESE DUCTS SHALL BE LISTED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF THEIR LISTING AND THE REQUIREMENTS OF C.M.C. SECTION 601.0.
   C. DUCT SUPPORT FLEX DUCT TO BE SUPPORTED WITH 1-1/2" WIDE x26 GA. GALV. STRAP @ MAX 4'-0" O.C. ATTACH TO RAFTER WITH TWO #8 S.M.S. @ EACH END.
   D. SUPPLY AIR PLENUM TO BE SUPPORTED WITH 1-1/2" WIDE x26 GA. GALV. STRAPS MINIMUM 2 PER PLENUM.
   E. SUPPLY AIR BOX AND DIFFUSERS TO BE SUPPORTED WITH (2) 12 GA. HANGER WIRES TO BOX @ OPPOSITE CORNERS.
   F. SUPPLY AIR BOX AND DIFFUSERS TO BE BRACED WITH (2) 12 GA. SLACK WIRES TO BOX @ OPPOSITE CORNERS. ATTACH SUPPLY AIR DIFFUSERS TO CEILING GRID TO RESIST A LATERAL LOAD EQUAL TO THE WEIGHT OF THE DIFFUSER AND SUPPLY AIR BOX WITH TWO #8 S.M.S.
9. FIREBLOCKING SHALL BE PROVIDED IN THE FOLLOWING LOCATIONS:
   A. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES;
   B. AT THE CEILING AND FLOOR LEVELS;
   C. AND AT 10-FOOT (3048mm) INTERVALS BOTH VERTICAL AND HORIZONTAL.
   REFERENCE 2019 CBC SECTION 718.
10. THE INTERIOR ENVIRONMENT SHALL BE ASSEMBLED WITH PRODUCTS THAT CONTRIBUTE TO A HEALTHY INDOOR AIR QUALITY (IAQ). THE FOLLOWING SHALL COMPLY TITLE 24, PART 11 ("CAL-GREEN"), SECTION 5.504.4. (SEE SHEET N1.0, SECTION 9C "INTERIOR AIR QUALITY CONTROL")
11. HVAC FILTER
    A. FILTERS SHALL HAVE A "MINIMUM EFFICIENCY REPORTING VALUE" OF 13 WITH 2" DEPTH MIN. (MERV 13) AND SHALL BE INSTALLED PRIOR TO OCCUPANCY AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL, PER 2019 CEC SECTION 5.504.5.3.
    B. INSTALLED FILTERS SHALL BE CLEARLY LABELED BY THE MANUFACTURER INCLUDING THE MERV RATING, PER 2019 CBC SECTION 5.504.5.3.1
12. ROOF MOUNTED HVAC
    A. A GASKET SHALL BE PLACED BETWEEN THE CURB AND THE HVAC UNIT. MASTIC SEALANT SHALL BE USED TO SEAL ALL SEAMS BETWEEN THE HVAC UNIT AND DUCTS.
13. HVAC CONTROLS
    A. THERMOSTAT (BY OTHERS) WILL BE PROGRAMMED WHEN THE MODULAR BUILDING IS PLACED ON A SITE TO ENSURE THE MINIMUM AIR RATE WILL BE SUPPLIED TO THE SPACE AT ALL USUALLY OCCUPIED TIMES AND PROGRAMMED TO PROVIDE A PRE-OCCUPANCY PURGE ONE HOUR PRIOR TO THE MODULAR BUILDING BEING NORMALLY OCCUPIED PER ENERGY CODE 120.1(c)1.
14. UPON SITE PLACEMENT OR SITE CONSTRUCTION, THE OPERATION AND MAINTENANCE DOCUMENTATION FOR ALL MECHANICAL AND LIGHTING SYSTEMS AND CONTROLS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR FOR THE PERMANENT MODULAR RELOCATABLE BUILDING AND DELIVERED TO THE OWNER.

HVAC NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK RICHARD DEL RAMPO
No. C-31138
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
ROBERT PATRICK HOWE
No. C12631
Ren. 9-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

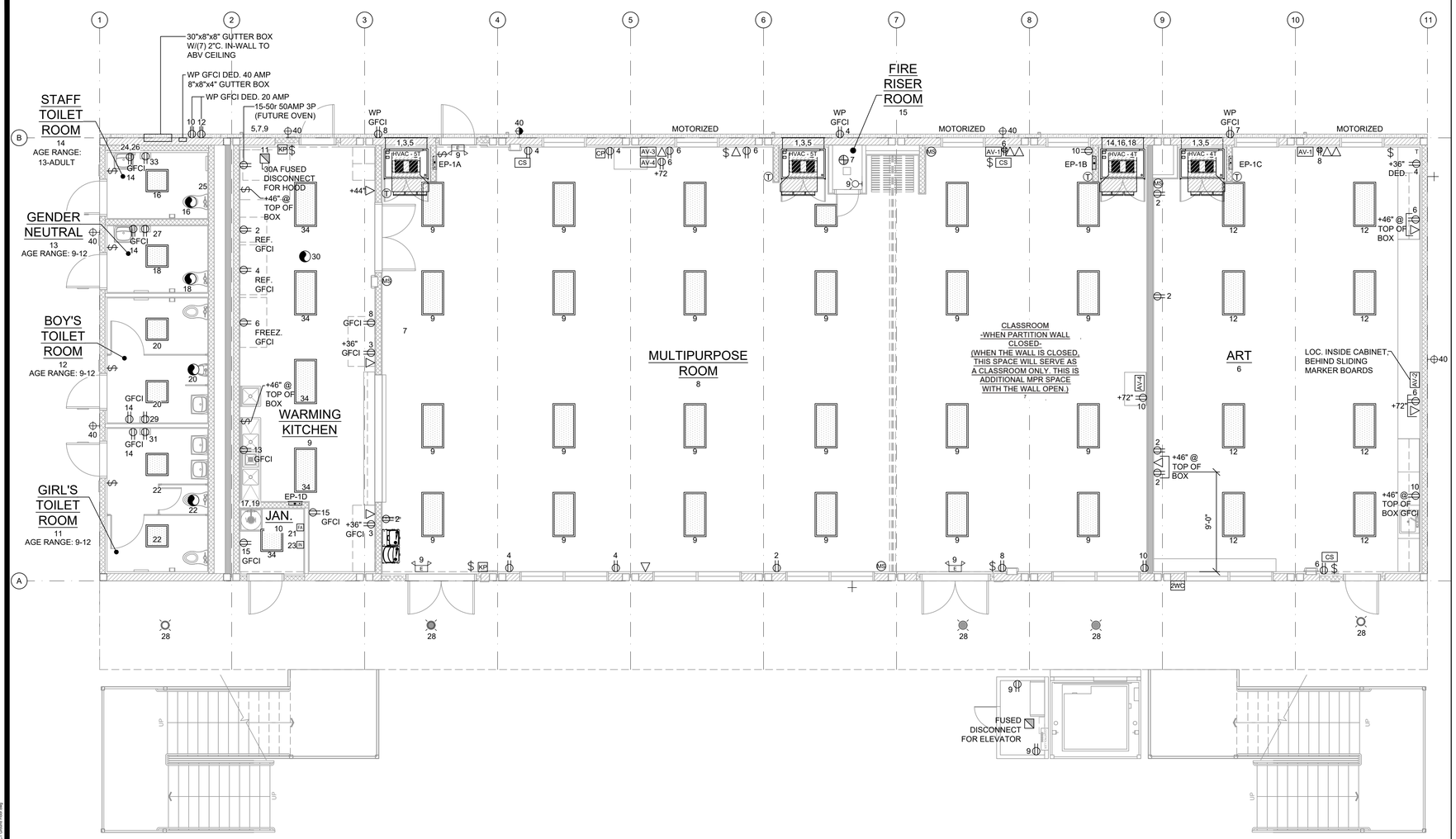
REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
CEILING NOTES, MECHANICAL NOTES & SCHEDULES

SHEET NUMBER:
M1.7

ID:XXXXXX - 2Step.rdf - 22R x 34"; 3&4/23; 6/20/2023 9:38 PM; PLOTTED; 6/21/2022 9:53 AM; W:\Projects\PDS-1999\1800-1899\1857-2 Santa Cruz City Schools - Gault ES\PRELIM\M\M1\CM1M1.7 - 02 - 119149 - M1.7 - Gault ES - Ceiling & Mechanical Notes.dwg



NOTE: PLEASE REFER TO SHEET E1.3
FOR SITE EGRESS LIGHTING.

TYPICAL GROUND FLOOR ELECTRICAL PLAN

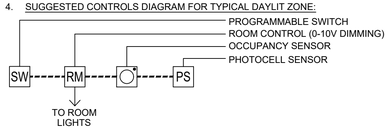
SCALE: 3/16" = 1'-0" | 1

NOT USED | 2

ENERGY NOTES

ENERGY CONTROLS

1. AUTOMATIC DAYLIGHTING CONTROLS:
   NOT REQUIRED IN ROOMS WHERE COMBINED INSTALLED LIGHTING POWER IN COMBINED SKYLIT & PRIMARY DAYLIT ZONES ARE <120 WATTS. INSTALLED WATTAGE IN PRIMARY SIDELIT DAY LIT ZONE IS 90 WATTS (2x 45w, AS SHOWN IN THE SHADED AREAS). THEREFORE, AUTOMATIC DAYLIGHTING CONTROLS ARE ONLY REQUIRED WHEN "SOLATUBES" ARE INSTALLED. SEE A1.1. WHEN DAYLIT CONTROLS ARE REQUIRED, PROVIDE COMBINATION OCCUPANCY/PHOTOCELL SENSOR.
2. ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) CONNECTION:
   PER TITLE 24 CODE, "AN EMCS MAY BE INSTALLED TO COMPLY WITH THE REQUIREMENTS OF ONE OR MORE LIGHTING CONTROLS IF IT MEETS THE MINIMUM REQUIREMENTS". MAY CONTAIN OCCUPANCY SENSORS AND PHOTOCELL CONTROL LIGHTING, IN THAT CASE, AN EMCS IS NOT REQUIRED FOR THIS.
3. SOLAR-READY ZONE REQUIREMENTS:
   REQUIREMENTS & TABLE CAN BE FOUND ON SHEET A2.0
4. SUGGESTED CONTROLS DIAGRAM FOR TYPICAL DAYLIT ZONE:



NOTE: ANT MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND ARE NOT INCLUDED IN THE BASE.

GENERAL NOTES

1. THE PROJECT ARCHITECT SHALL BE RESPONSIBLE FOR THE PLACEMENT OF HEAT & SMOKE DETECTORS, EVACS AND PULL STATIONS, AND COMPLETE FIRE ALARM SYSTEM WHEN THE SITE SPECIFIC PROJECT IS REQUIRED TO MEET THE PROVISIONS OF SB 575 & CBC 907.2.3.
2. ANY MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND ARE NOT INCLUDED IN THIS BASE.
3. PULL STATIONS ARE REQUIRED AT EVERY EXIT. AT ANY SPACE REQUIRING 2 OR MORE EXITS, PROVIDE EXIT SIGNS (CBC 1013) AND EMERGENCY EXIT ILLUMINATION (CBC 1008).
4. SEE PLANS FOR LOCATIONS OF ALL DEVICES.
5. STUB-OUT LOCATIONS FOR ELECTRICAL PANEL, FIRE ALARM, AND DATA BOXES ARE SHOWN DIAGRAMMATICAL ONLY. EXACT LOCATIONS MAY VARY +/- SEVERAL FEET. PLEASE CONTACT AMERICAN MODULAR SYSTEMS FOR EXACT LOCATIONS. POINT OF CONNECTION WILL BE AT FACE OF BUILDING.
6. STUB-UP ALL FIRE ALARM JUNCTION BOXES TO ACCESSIBLE ATTIC SPACE WITH 1/2" MIN. GALV. THIN WALL TUBING (EMT). DO NOT CONNECT FIRE ALARM CONDUIT WITH ANY OTHER ELECTRICAL CONDUIT.
7. THE LIGHTS FOR EACH ROOM OVER 250 SQ FT SHALL BE CONTROLLED BY ULTRASONIC OCCUPANCY SENSOR: WATT STOPPER W-500A, W-1000A, OR W-2000A (OR EQUAL) BASED ON THE ROOM SIZE, IN CONJUNCTION WITH BI-LEVEL SWITCHING.
8. FIXTURE MOUNTING SHALL COMPLY WITH CALIFORNIA SEISMIC REGULATIONS.
9. LIGHTING FIXTURES MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-BAR GRID LAYOUT.

DEMAND RESPONSE CONTROLS

1. DEMAND RESPONSE CONTROLS ARE REQUIRED IN BUILDINGS LARGER THAN 10,000 S.F.
2. DEMAND RESPONSE CONTROLS, WHERE REQUIRED, ARE TO BE PROVIDED BY OTHERS.
3. DEMAND RESPONSE CONTROLS AND EQUIPMENT SHALL BE CAPABLE OF RECEIVING AND AUTOMATICALLY RESPONDING TO AT LEAST ONE STANDARD-BASED MESSAGING PROTOCOL WHICH ENABLES DEMAND RESPONSE AFTER RECEIVING A DEMAND SIGNAL.
4. SITE-SPECIFIC PROJECTS WHICH REQUIRE DEMAND RESPONSE CONTROLS MUST INCLUDE THE SUBMITTAL OF FORM NRCC-ELC-O1-E TO DSA (BY OTHERS).

STANDARD ELECTRICAL SYMBOLS

- ELECTRICAL PANEL - MOUNT FLUSH WITH WALL FINISH, U.O.N.
- INCANDESCENT WALL MOUNTED INTERIOR LIGHT FIXTURE MODEL: 9850-LED, 10W MAX, OR EQUAL
- EXTERIOR LIGHT FIXTURE @ EACH DOOR, LED OR EQUAL (MAX 40W)
- EXTERIOR LIGHT FIXTURE @ EACH DOOR, LED OR EQUAL (MAX 40W) - WHERE THERE ARE TWO OR MORE EXITS, A MINIMUM 90 MIN. BATTERY BACK-UP IS REQUIRED
- EXTERIOR SOFFIT MOUNTED LIGHT FIXTURE ALEO MODEL LCP-20-UX-CT-PSMK LOW PROFILE CANOPY, LED OR EQUAL (MAX 20W)
- EXTERIOR SOFFIT MOUNTED LIGHT FIXTURE ALEO MODEL LCP-20-UX-CT-PSMK LOW PROFILE CANOPY, LED OR EQUAL (MAX 20W) w/BATTERY BACK UP
- ROOF TOP WEATHER-PROOF DUPLEX
- UNCONTROLLED-DUPLEX WALL CONVENIENCE OUTLET -MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N.
- CONTROLLED-DUPLEX WALL CONVENIENCE OUTLET -MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N. - TO BE CONTROLLED BY OCCUPANCY SENSOR.
- COMBO-DUPLEX WALL CONVENIENCE OUTLET - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N.
- FOURPLEX WALL OUTLET - MOUNT @ +18" A.F.F. TO CENTER LINE - U.O.N.
- WP/GFCI — WEATHER-PROOF GROUND FAULT CIRCUIT INTERRUPT OUTLET - MOUNT @ 18" A.F.F. TO CENTERLINE - U.O.N.
- GFCI — GROUND FAULT CIRCUIT INTERRUPT OUTLET - MOUNT @ 18" A.F.F. TO CENTERLINE - U.O.N.
- $ — CONTROLLED-SINGLE POLE LIGHT SWITCHES - MOUNT @ +46" A.F.F. MAX TO TOP OF BOX - HUBBELL PREMIUM, BRYANT HEAVY DUTY, OR LEVITON SPECIFICATIONS GRADE.
- AV-1 — TEACHER STATION - OUTLET ONLY - 4" SQ BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +18" MAX A.F.F. TO CENTERLINE, U.O.N., AND PROVIDE A 1-1/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- AV-2 — MONITORS - (2) 4" SQ BOX WITH DUAL DEVICE RING AND COVER - MOUNT @ +72" MAX A.F.F. TO CENTERLINE, U.O.N., AND PROVIDE (2) 1-1/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- AV-3 — SOUND SYSTEM - 4" SQ BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +18" MAX A.F.F. TO CENTERLINE, U.O.N., AND PROVIDE A 1-1/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- AV-4 — SOUND SYSTEM - 4" SQ BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +72" MAX A.F.F. TO CENTERLINE, U.O.N., AND PROVIDE A 1-1/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- CS — CLOCK/SPEAKER - RECESSED MOUNTED - 4" SQ BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +90" MAX A.F.F. TO CENTERLINE, U.O.N., AND PROVIDE A 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- KP — INTRUSION ALARM KEYPAD - OUTLET ONLY - 4" SQ BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +46" MAX A.F.F. TO TOP OF BOX, U.O.N., AND PROVIDE A 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- CEILING MOUNTED FAN MOTOR DISCONNECT
- MS — MOTION SENSOR- OUTLET ONLY - 4" SQ BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ 6" BELOW CEILING LINE TO TOP OF BOX, U.O.N., AND PROVIDE A 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- T — THERMOSTAT - TOP OF BOX MOUNTED @ +46" A.F.F.
- S — SPEAKER - OUTLET ONLY - 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +84" A.F.F. TO CENTERLINE - DEVICE BY OTHERS
- DATA/COMMUNICATION - OUTLET ONLY - 4" SQ BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N., AND PROVIDE A 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- S — SECURITY/INTRUSION KEY PAD - OUTLET ONLY - 4" SQ. BOX w/ SINGLE DEVICE RING AND COVER, MOUNT TOP OF BOX @ +48" A.F.F., AND ONE 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- DC — DOOR CONTACT - PROVIDE (1) EMPTY 1/2" DIA EMT THROUGH DOOR HEADER - STUBBED ABOVE CEILING -DEVICE BY OTHERS
- ULTRASONIC OCCUPANCY SENSOR - MOUNTED TO FINISH CEILING (PROVIDE WITH COMBINATION PHOTOCELL SENSOR WHEN DAYLIT CONTROLS ARE REQUIRED)
- 2'x4' LED EDGE FIT FIXTURE, MODEL: LSI, SFP24 5601K LUMENS - 45 WATTS MAX OR EQUAL
- 2'x2' LED EDGE FIT FIXTURE, MODEL: LSI, SFP22 3163K LUMENS - 30 WATTS MAX OR EQUAL
- E — EMERGENCY EXIT LIGHT, - WHERE THERE ARE TWO OR MORE EXITS, AN EXIT SIGN WITH INTEGRAL EMERGENCY LIGHTING W/MINIMUM 90-MINUTE BATTERY BACK-UP IS REQUIRED.
- FA — JUNCTION BOX FOR FA - DED. 20 AMP CIRCUIT @ +48" A.F.F. U.O.N. -DEVICE BY OTHERS
- IN — JUNCTION BOX FOR INTRUSTION - DED. 20 AMP CIRCUIT @ +48" A.F.F. U.O.N. -DEVICE BY OTHERS
- CP — CP - CONTROL PANEL - OUTLET ONLY - 4" SQ BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +46" A.F.F. TO TOP OF BOX, U.O.N., AND PROVIDE A 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- 2WC — 2-WAY COMM SYSTEM - OUTLET ONLY - 4" SQ BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +46" A.F.F. TO TOP OF BOX, U.O.N., AND PROVIDE A 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME

120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK RICHARD WYATT
No. C-28138
Ren. 08/31/23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
TIMOTHY PATRICK MCMAHON
No. C12631
Ren. 9-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

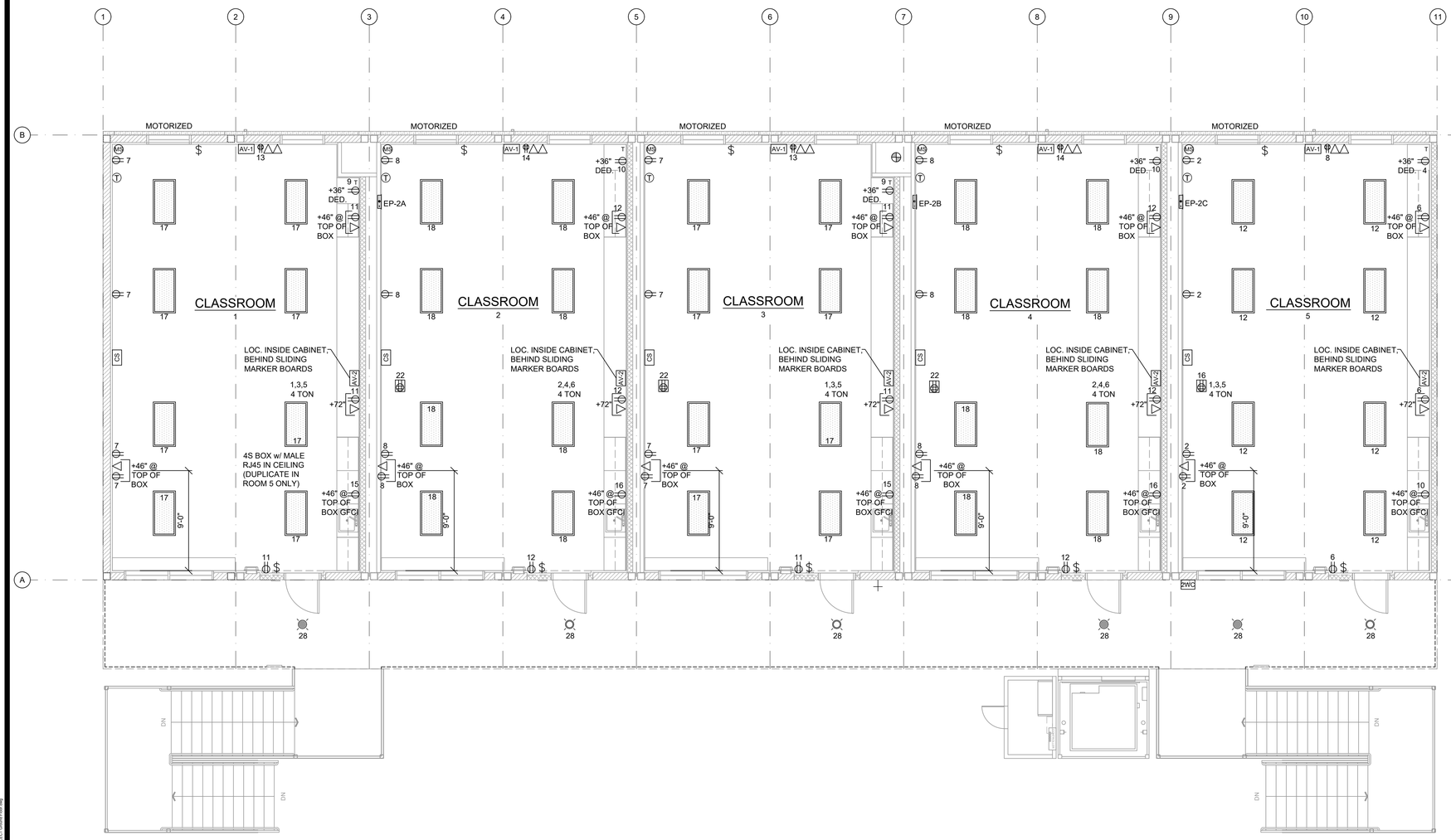
SHEET TITLE:

GROUND FLOOR
ELECTRICAL FLOOR PLAN

SHEET NUMBER:

E1.0

\\SAXXXX - Jobs \ 47 - 2021 \ 1657-21 \ Drawings \ Working Drawings \ Architectural \ E1.0 Ground Floor Electrical Plan.dwg, 6/7/2022 3:52 AM, AutoPlot.pc3 (DWG To PDF.pc3), 609/1600, 609/1600 (2), Santa Cruz City Schools - Gault ELEMENTARY\SHEETS\E1.0 Ground Floor Electrical Plan.dwg



NOTE: PLEASE REFER TO SHEET E1.3
FOR SITE EGRESS LIGHTING.

TYPICAL UPPER FLOOR ELECTRICAL PLAN

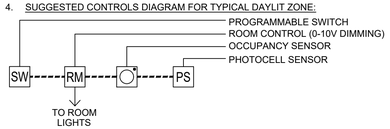
SCALE: 3/16" = 1'-0" | 1

NOT USED | 2

ENERGY NOTES

ENERGY CONTROLS

1. AUTOMATIC DAYLIGHTING CONTROLS:
   NOT REQUIRED IN ROOMS WHERE COMBINED INSTALLED LIGHTING POWER IN COMBINED SKYLIT & PRIMARY DAYLIT ZONES ARE <120 WATTS. INSTALLED WATTAGE IN PRIMARY SIDELIT DAY LIT ZONE IS 90 WATTS (2x 45w, AS SHOWN IN THE SHADED AREAS). THEREFORE, AUTOMATIC DAYLIGHTING CONTROLS ARE ONLY REQUIRED WHEN "SOLATUBES" ARE INSTALLED. SEE A1.1. WHEN DAYLIT CONTROLS ARE REQUIRED, PROVIDE COMBINATION OCCUPANCY/PHOTOCELL SENSOR.
2. ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) CONNECTION:
   PER TITLE 24 CODE, "AN EMCS MAY BE INSTALLED TO COMPLY WITH THE REQUIREMENTS OF ONE OR MORE LIGHTING CONTROLS IF IT MEETS THE MINIMUM REQUIREMENTS". MAY CONTAIN OCCUPANCY SENSORS AND PHOTOCELL CONTROL LIGHTING, IN THAT CASE, AN EMCS IS NOT REQUIRED FOR THIS.
3. SOLAR-READY ZONE REQUIREMENTS:
   REQUIREMENTS & TABLE CAN BE FOUND ON SHEET A2.0
4. SUGGESTED CONTROLS DIAGRAM FOR TYPICAL DAYLIT ZONE:



NOTE: ANT MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND ARE NOT INCLUDED IN THE BASE.

GENERAL NOTES

1. THE PROJECT ARCHITECT SHALL BE RESPONSIBLE FOR THE PLACEMENT OF HEAT & SMOKE DETECTORS, EVACS AND PULL STATIONS, AND COMPLETE FIRE ALARM SYSTEM WHEN THE SITE SPECIFIC PROJECT IS REQUIRED TO MEET THE PROVISIONS OF SB 575 & CBC 907.2.3.
2. ANY MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND ARE NOT INCLUDED IN THIS BASE.
3. PULL STATIONS ARE REQUIRED AT EVERY EXIT. AT ANY SPACE REQUIRING 2 OR MORE EXITS, PROVIDE EXIT SIGNS (CBC 1013) AND EMERGENCY EXIT ILLUMINATION (CBC 1008).
4. SEE PLANS FOR LOCATIONS OF ALL DEVICES.
5. STUB-OUT LOCATIONS FOR ELECTRICAL PANEL, FIRE ALARM, AND DATA BOXES ARE SHOWN DIAGRAMMATICAL ONLY. EXACT LOCATIONS MAY VARY +/- SEVERAL FEET. PLEASE CONTACT AMERICAN MODULAR SYSTEMS FOR EXACT LOCATIONS. POINT OF CONNECTION WILL BE AT FACE OF BUILDING.
6. STUB-UP ALL FIRE ALARM JUNCTION BOXES TO ACCESSIBLE ATTIC SPACE WITH 1/2" MIN. GALV. THIN WALL TUBING (EMT). DO NOT CONNECT FIRE ALARM CONDUIT WITH ANY OTHER ELECTRICAL CONDUIT.
7. THE LIGHTS FOR EACH ROOM OVER 250 SQ FT SHALL BE CONTROLLED BY ULTRASONIC OCCUPANCY SENSOR: WATT STOPPER W-500A, W-1000A, OR W-2000A (OR EQUAL) BASED ON THE ROOM SIZE, IN CONJUNCTION WITH BI-LEVEL SWITCHING.
8. FIXTURE MOUNTING SHALL COMPLY WITH CALIFORNIA SEISMIC REGULATIONS.
9. LIGHTING FIXTURES MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-BAR GRID LAYOUT.

DEMAND RESPONSE CONTROLS

1. DEMAND RESPONSE CONTROLS ARE REQUIRED IN BUILDINGS LARGER THAN 10,000 S.F.
2. DEMAND RESPONSE CONTROLS, WHERE REQUIRED, ARE TO BE PROVIDED BY OTHERS.
3. DEMAND RESPONSE CONTROLS AND EQUIPMENT SHALL BE CAPABLE OF RECEIVING AND AUTOMATICALLY RESPONDING TO AT LEAST ONE STANDARD-BASED MESSAGING PROTOCOL WHICH ENABLES DEMAND RESPONSE AFTER RECEIVING A DEMAND SIGNAL.
4. SITE-SPECIFIC PROJECTS WHICH REQUIRE DEMAND RESPONSE CONTROLS MUST INCLUDE THE SUBMITTAL OF FORM NRCC-ELC-O1-E TO DSA (BY OTHERS).

STANDARD ELECTRICAL SYMBOLS

- ELECTRICAL PANEL - MOUNT FLUSH WITH WALL FINISH, U.O.N.
- EXTERIOR LIGHT FIXTURE @ EACH DOOR, LED OR EQUAL (MAX 40W)
- EXTERIOR LIGHT FIXTURE @ EACH DOOR, LED OR EQUAL (MAX 40W) - WHERE THERE ARE TWO OR MORE EXITS, A MINIMUM 90 MIN. BATTERY BACK-UP IS REQUIRED
- EXTERIOR SOFFIT MOUNTED LIGHT FIXTURE ALEO MODEL LCP-20-UX-CT-PSMK LOW PROFILE CANOPY, LED OR EQUAL (MAX 20W)
- EXTERIOR SOFFIT MOUNTED LIGHT FIXTURE ALEO MODEL LCP-20-UX-CT-PSMK LOW PROFILE CANOPY, LED OR EQUAL (MAX 20W) w/BATTERY BACK UP
- ROOF TOP WEATHER-PROOF DUPLEX
- UNCONTROLLED-DUPLEX WALL CONVENIENCE OUTLET -MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N.
- CONTROLLED-DUPLEX WALL CONVENIENCE OUTLET -MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N. - TO BE CONTROLLED BY OCCUPANCY SENSOR.
- COMBO-DUPLEX WALL CONVENIENCE OUTLET - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N.
- FOURPLEX WALL OUTLET - MOUNT @ +18" A.F.F. TO CENTER LINE - U.O.N.
- WP/GFCI — WEATHER-PROOF GROUND FAULT CIRCUIT INTERRUPT OUTLET - MOUNT @ 18" A.F.F. TO CENTERLINE - U.O.N.
- GFCI — GROUND FAULT CIRCUIT INTERRUPT OUTLET - MOUNT @ 18" A.F.F. TO CENTERLINE - U.O.N.
- $ — CONTROLLED-SINGLE POLE LIGHT SWITCHES - MOUNT @ +46" A.F.F. MAX TO TOP OF BOX - HUBBELL PREMIUM, BRYANT HEAVY DUTY, OR LEVITON SPECIFICATIONS GRADE.
- AV-1 — TEACHER STATION - OUTLET ONLY - 4" SQ BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +18" MAX A.F.F. TO CENTERLINE, U.O.N., AND PROVIDE A 1-1/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- AV-2 — MONITORS - (2) 4" SQ BOX WITH DUAL DEVICE RING AND COVER - MOUNT @ +72" MAX A.F.F. TO CENTERLINE, U.O.N., AND PROVIDE (2) 1-1/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- AV-3 — SOUND SYSTEM - 4" SQ BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +18" MAX A.F.F. TO CENTERLINE, U.O.N., AND PROVIDE A 1-1/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- AV-4 — SOUND SYSTEM - 4" SQ BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +72" MAX A.F.F. TO CENTERLINE, U.O.N., AND PROVIDE A 1-1/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- CS — CLOCK/SPEAKER - RECESSED MOUNTED - 4" SQ BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +90" MAX A.F.F. TO CENTERLINE, U.O.N., AND PROVIDE A 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- KP — INTRUSION ALARM KEYPAD - OUTLET ONLY - 4" SQ BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +46" MAX A.F.F. TO TOP OF BOX, U.O.N., AND PROVIDE A 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- CEILING MOUNTED FAN MOTOR DISCONNECT
- MS — MOTION SENSOR- OUTLET ONLY - 4" SQ BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ 6" BELOW CEILING LINE TO TOP OF BOX, U.O.N., AND PROVIDE A 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- T — THERMOSTAT - TOP OF BOX MOUNTED @ +46" A.F.F.
- S — SPEAKER - OUTLET ONLY - 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +84" A.F.F. TO CENTERLINE - DEVICE BY OTHERS
- ▽ — DATA/COMMUNICATION - OUTLET ONLY - 4" SQ BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N., AND PROVIDE A 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- S — SECURITY/INTRUSION KEY PAD - OUTLET ONLY - 4" SQ. BOX w/ SINGLE DEVICE RING AND COVER, MOUNT TOP OF BOX @ +48" A.F.F., AND ONE 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- DC — DOOR CONTACT - PROVIDE (1) EMPTY 1/2" DIA EMT THROUGH DOOR HEADER - STUBBED ABOVE CEILING -DEVICE BY OTHERS
- ULTRASONIC OCCUPANCY SENSOR - MOUNTED TO FINISH CEILING (PROVIDE WITH COMBINATION PHOTOCELL SENSOR WHEN DAYLIT CONTROLS ARE REQUIRED)
- 2'x4' LED EDGE FIT FIXTURE, MODEL: LSI, SFP24 5601K LUMENS - 45 WATTS MAX OR EQUAL
- 2'x2' LED EDGE FIT FIXTURE, MODEL: LSI, SFP22 3163K LUMENS - 30 WATTS MAX OR EQUAL
- E — EMERGENCY EXIT LIGHT, - WHERE THERE ARE TWO OR MORE EXITS, AN EXIT SIGN WITH INTEGRAL EMERGENCY LIGHTING W/MINIMUM 90-MINUTE BATTERY BACK-UP IS REQUIRED.
- FA — JUNCTION BOX FOR FA - DED. 20 AMP CIRCUIT @ +48" A.F.F. U.O.N. -DEVICE BY OTHERS
- IN — JUNCTION BOX FOR INTRUSTION - DED. 20 AMP CIRCUIT @ +48" A.F.F. U.O.N. -DEVICE BY OTHERS
- CP — CP - CONTROL PANEL - OUTLET ONLY - 4" SQ BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +46" A.F.F. TO TOP OF BOX, U.O.N., AND PROVIDE A 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- 2WC — 2-WAY COMM SYSTEM - OUTLET ONLY - 4" SQ BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +46" A.F.F. TO TOP OF BOX, U.O.N., AND PROVIDE A 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME

120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT — MARK STANFORD CHRISTIE — No. C12631 — Ren. 3-31-23 — STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT — JOSEPH PATRICK CONNOR — No. C12631 — Ren. 3-31-23 — STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

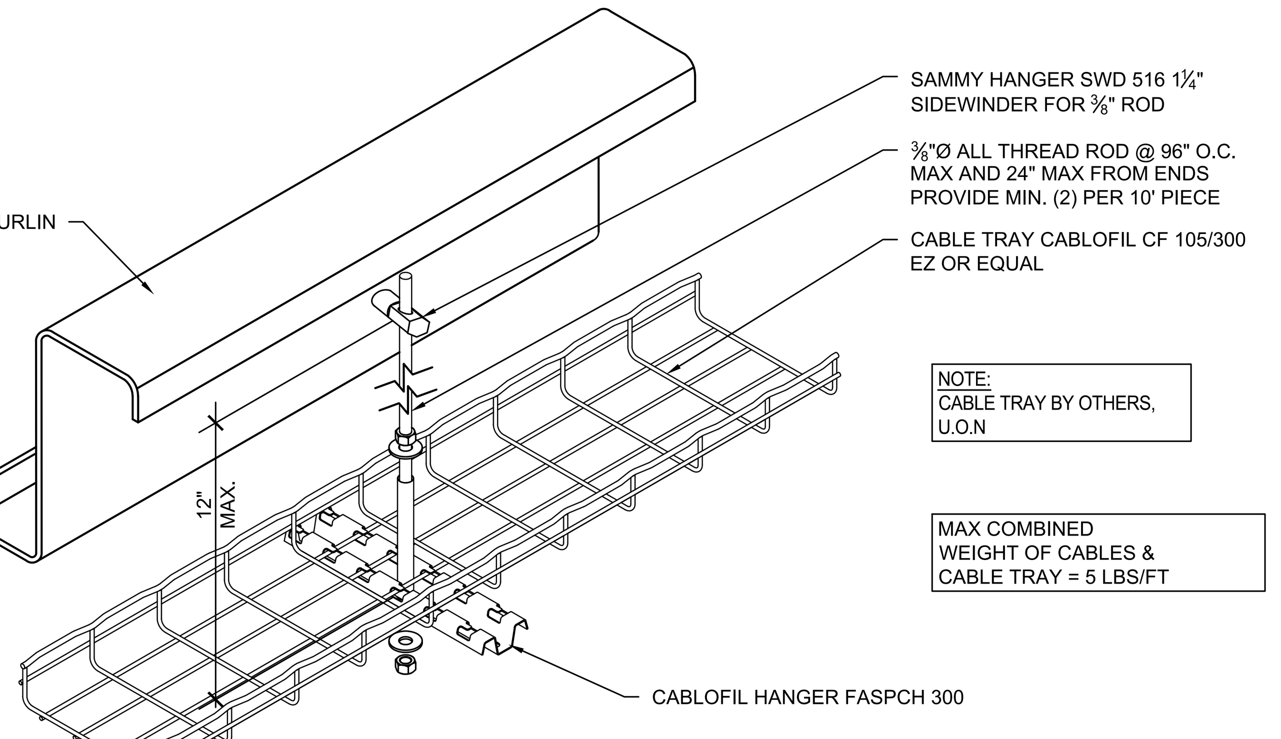
SHEET TITLE:

UPPER FLOOR
ELECTRICAL PLAN

SHEET NUMBER:

E1.1

ID:XXXXX, 238sq ref - 209 ref - SHEETS 6/14/2022 4:43 PM PLOTTED: 6/21/2022 10:52 AM M:\Projects\000s-999\999-999\999-021 Santa Cruz City Schools- Gault ES\PRELIM\MAY\250270_02 - 119989_4110 - Gault ES - ELEC E1 Ground Floor.dwg



NOTE:
CABLE TRAY BY OTHERS, U.O.N

MAX COMBINED WEIGHT OF CABLES & CABLE TRAY = 5 LBS/FT

CABLE TRAY DETAIL

SCALE: N.T.S. 1

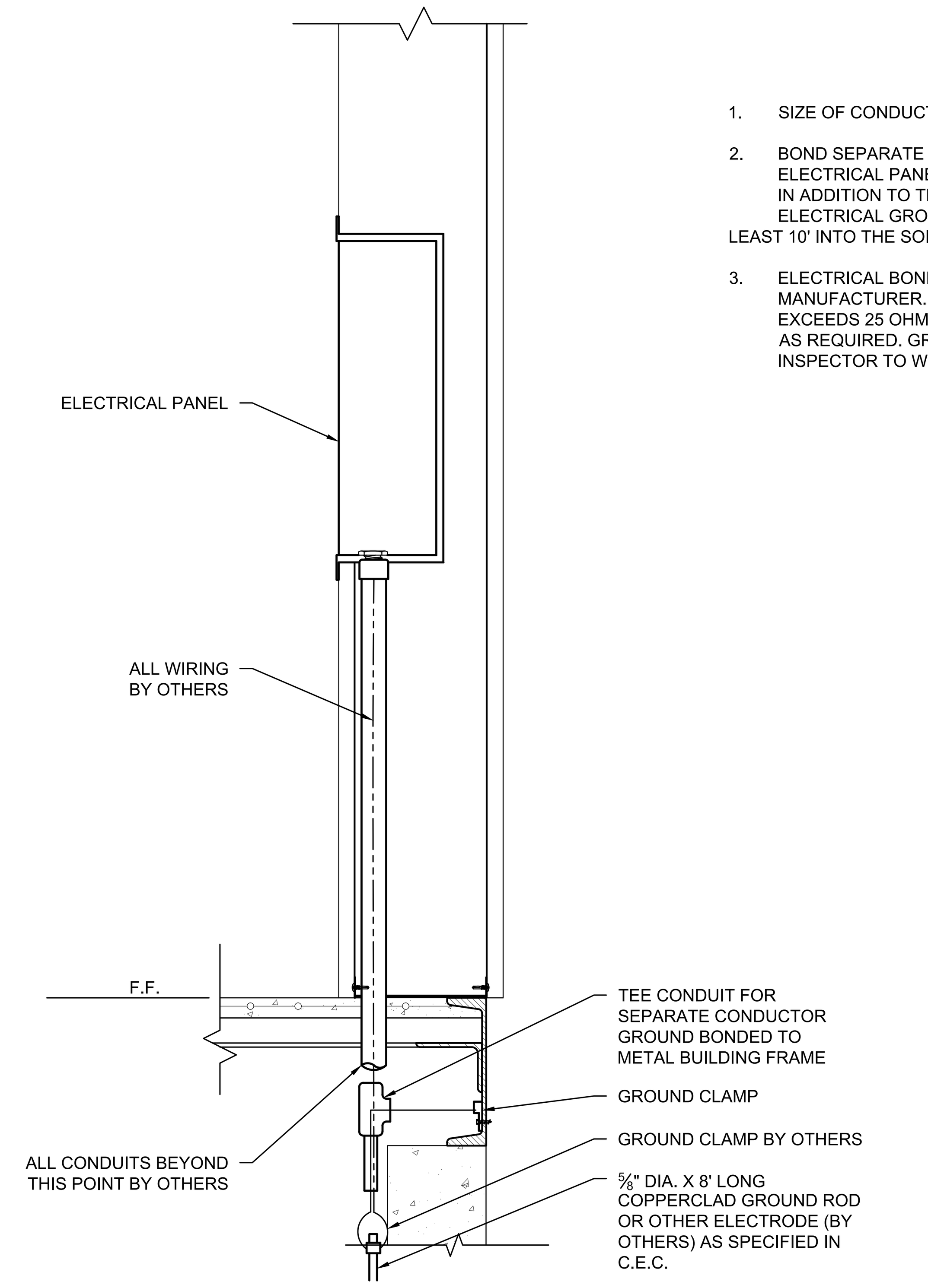
Panel:	EP-1A			PHASE: 3 Phase			VOLTS: 120/208			MAIN (AMPS): 100					BUSS (AMPS): 125			LOCATION: INTERIOR		FEED: BOTTOM - BELOW FLOOR			MOUNTING: RECESSED	
OBJECT DESCRIPTION	WATTS PER	QTY	LCL	WATTS A	WATTS B	WATTS C	BRK	POLE	WIRE SIZE	CKT #	LEGS A	LEGS B	LEGS C	CKT #	WIRE SIZE	POLE	BRK	WATTS A	WATTS B	WATTS C	LCL	QTY	WATTS PER	OBJECT DESCRIPTION
	3334	1		3334						1	X			2	#12	1	20	180				1	180	DUPLEX
5 TON HVAC	3334	1			3334		PND	3	PND	3		X		4	#12	1	20		720			4	180	DUPLEX
	3334	1				3334				5			X	6	#12	1	20			540		3	180	DUPLEX
DRINKING FOUNTAIN	400	1		400			20	1	#12	7	X			8	#12	1	20	180				1	180	DUPLEX - WP GFCI
LED LIGHTING	50	13			650		20	1	#12	9		X		10	#12	1	20		360			2	180	SPARE
						0				11			X	12	#12	1	20			540		3	180	SPARE
				0						13	X			14	#12	1	20	1080				6	180	SPARE
					0					15		X		16					0					
						0				17			X	18						0				
				0						19	X			20				0						
					0					21		X		22					0					
						0				23			X	24						0				
				0						25	X			26				0						
					0					27		X		28					0					
						0				29			X	30						0				
	LEG TOTALS			3734	3984	3334												1440	1080	1080	LEG TOTALS			
LCL=0+14652=14652																								
TOTAL WATTS:	14652									LEG BALANCE:		7.9%									TOTAL AMPS:		40.72	

Panel:	EP-1B			PHASE: 3 Phase			VOLTS: 120/208			MAIN (AMPS): 100					BUSS (AMPS): 125			LOCATION: INTERIOR		FEED: BOTTOM - BELOW FLOOR			MOUNTING: RECESSED	
OBJECT DESCRIPTION	WATTS PER	QTY	LCL	WATTS A	WATTS B	WATTS C	BRK	POLE	WIRE SIZE	CKT #	LEGS A	LEGS B	LEGS C	CKT #	WIRE SIZE	POLE	BRK	WATTS A	WATTS B	WATTS C	LCL	QTY	WATTS PER	OBJECT DESCRIPTION
	3334	1		3334						1	X			2	#12	1	20	180				1	180	DUPLEX
4 TON HVAC	3334	1			3334		PND	3	PND	3		X		4	#12	1	20		180			1	180	DUPLEX - WP GFCI
	3334	1				3334				5			X	6	#12	1	20			360		1	360	QUAD
FIRE RISER	1200	1		1200			20	1	#12	7	X			8	#12	1	20	180				1	180	DUPLEX
LED LIGHTING	50	13			650		20	1	#12	9		X		10	#12	1	20		540			3	180	DUPLEX
						0				11			X	12	#12	1	20			540		3	180	SPARE
				0						13	X			14				3334				1	3334	
					0					15		X		16	PND	3	PND		3334			1	3334	4 TON HVAC
						0				17			X	18						3334		1	3334	
				0						19	X			20				0						
					0					21		X		22					0					
						0				23			X	24						0				
				0						25	X			26				0						
					0					27		X		28					0					
						0				29			X	30						0				
	LEG TOTALS			4534	3984	3334												3694	4054	4234	LEG TOTALS			
LCL=0+23834=23834																								
TOTAL WATTS:	23834									LEG BALANCE:		4.2%									TOTAL AMPS:		66.23	

Panel:	EP-1C			PHASE: 3 Phase			VOLTS: 120/208			MAIN (AMPS): 100					BUSS (AMPS): 125			LOCATION: INTERIOR		FEED: BOTTOM - BELOW FLOOR			MOUNTING: RECESSED	
OBJECT DESCRIPTION	WATTS PER	QTY	LCL	WATTS A	WATTS B	WATTS C	BRK	POLE	WIRE SIZE	CKT #	LEGS A	LEGS B	LEGS C	CKT #	WIRE SIZE	POLE	BRK	WATTS A	WATTS B	WATTS C	LCL	QTY	WATTS PER	OBJECT DESCRIPTION
	3334	1		3334						1	X			2	#12	1	20	720				4	180	DUPLEX
4 TON HVAC	3334	1			3334		PND	3	PND	3		X		4	#12	1	20		180			1	180	DED. DUPLEX
	3334	1				3334				5			X	6	#12	1	20			540		3	180	DUPLEX
DUPLEX - WP GFCI	180	1		180			20	1	#12	7	X			8	#12	1	20	360				1	360	QUAD
DUPLEX	180	3			540		20	1	#12	9		X		10	#12	1	20		180			1	180	DUPLEX GFCI
Spare	180	3				540	20	1	#12	11			X	12	#12	1	20			400		8	50	LED LIGHTING
				0						13	X			14				0						
					0					15		X		16					0					
						0				17			X	18						0				
				0						19	X			20				0						
					0					21		X		22					0					
						0				23			X	24						0				
				0						25	X			26				0						
					0					27		X		28					0					
						0				29			X	30						0				
	LEG TOTALS			3514	3874	3874												1080	360	940	LEG TOTALS			
LCL=0+13642=13642																								
TOTAL WATTS:	13642									LEG BALANCE:		6.4%									TOTAL AMPS:		37.91	

Panel:	EP-1D			PHASE: 3 Phase			VOLTS: 120/208			MAIN (AMPS): 150					BUSS (AMPS): 225			LOCATION: INTERIOR		FEED: BOTTOM - BELOW FLOOR			MOUNTING: RECESSED	
OBJECT DESCRIPTION	WATTS PER	NO. OF	LCL	WATTS A	WATTS B	WATTS C	BRK	POLE	WIRE SIZE	CKT NO	LEGS A	LEGS B	LEGS C	CKT NO	WIRE SIZE	POLE	BRK	WATTS A	WATTS B	WATTS C	LCL	NO. OF	WATTS PER	OBJECT DESCRIPTION
ROLL UP DOOR MOTOR	800	1		800			20	1	#12	1	X			2	PND	1	PND	800			X	1	800	DED. DUPLEX - GFCI
GFCI	180	3			540					3		X		4	PND	1	PND		800		X	1	800	DED. DUPLEX - GFCI
	4000	1	X			4000				5			X	6	PND	1	PND			1200	X	1	1200	DED. DUPLEX - GFCI
OVEN	4000	1		4000			PND	3	PND	7	X			8	PND	1	PND	400			X	1	400	DED. DUPLEX - GFCI
	4000	1			4000					9		X		10	#12	1	20		180			1	180	DED. DUPLEX - WP GFCI
HOOD DISCONNECT (30AMP)	180	1	X			180	30	1	#12	11			X	12	#12	1	20			180		1	180	DED. DUPLEX - WP GFCI
DED. DUPLEX - GFCI	180	1		180			20	1	#12	13	X			14	#12	1	20	720				4	180	DUPLEX - GFCI
DUPEX - GFCI	180	2			360		20	1	#12	15		X		16	#12	1	20		200			1	200	RR 14-LIGHT AND EF
30 GAL W/H	2250	1	X			2250	30	2	#10	17			X	18	#12	1	20			200		1	200	RR 13-LIGHT AND EF
	2250	1		2250						19	X			20	#12	1	20	710				1	710	RR 12 - LIGHT AND EF
DED. FA	180	1	X		180		20	1	#12	21		X		22	#12	1	20		710			1	710	RR 11 - LIGHT AND EF
DED. 1N	180	1	X			180	20	1	#12	23			X	24	#10	2	20			2080	X	2080	1	INSTAHOT
FLUSHOMETERS	180	1		180			20	1	#12	25	X			26				2080				2080	1	
HAND DRYER	1500	1			1500		20	1	#12	27		X		28	#12	1	20		275			11	25	EXTERIOR SOFFIT LIGH
HAND DRYER	1500	1				1500	20	1	#12	29			X	30	#12	1	20			218		1	218	EF FAN
HAND DRYER	1500	1		1500			20	1	#12	31	X			32	#12	1	20	250				5	50	LED LIGHTS
HAND DRYER	1500	1			1500		PND	1	PND	33		X		34		1	20		2000			1	2000	Future Hood
						0				35			X	36		1	20			2000		1	2000	Future Hood
				0						37	X			38				0						
					0					39		X		40	#12	1	20		180			6	30	EXTEIOR LIGHTING
						0				41			X	42						0				
			LEG TOTALS	8910	8080	8110												4960	4345	5878	LEG TOTALS			
LCL=2452.5+40283=42735.5																								
TOTAL WATTS=42735.5										LEG BALANCE =		5.9%									TOTAL AMPS:		118.76	

NOTE:
FIRE ALARM DEDICATED CIRCUIT SHALL BE IDENTIFIED WITH A RED MARKED DISCONNECT WITH LOCK-ON CAPABILITY (NFPA 72 10.6.5.2)



1. SIZE OF CONDUCTORS SHALL COMPLY w/CEC.A
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL & METAL BUILDING FRAME (CEC). IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10' INTO THE SOIL IF AVAILABLE (CEC).
3. ELECTRICAL BOND MODULES TOGETHER W/#8 CU @ MODLINE. BY MANUFACTURER. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS (CEC) AS REQUIRED. GROUNDING DETAIL PER DSA IR E-1. INSPECTOR TO WITNESS GROUNDING TEST.

ELECTRICAL PANEL CONNECTION DETAIL - UNDERFLOOR OPTION

SCALE: 1-1/2" = 1' - 0" 3

Panel:	EP-2A & EP-2B			PHASE: 3 Phase			VOLTS: 120/208			MAIN (AMPS): 150					BUSS (AMPS): 225			LOCATION: INTERIOR		FEED: BOTTOM - BELOW FLOOR			MOUNTING: RECESSED	
OBJECT DESCRIPTION	WATTS PER	QTY	LCL	WATTS A	WATTS B	WATTS C	BRK	POLE	WIRE SIZE	CKT #	LEGS A	LEGS B	LEGS C	CKT #	WIRE SIZE	POLE	BRK	WATTS A	WATTS B	WATTS C	LCL	QTY	WATTS PER	OBJECT DESCRIPTION
	4480	1	X	4480						1	X			2				4480			X	1	4480	
RT HVAC - 4 TON	4480	1			4480		PND	3	PND	3		X		4	PND	3	PND		4480			1	4480	RT HVAC - 4 TON
	4480	1				4480				5			X	6						4480		1	4480	
DUPLEX	180	4		720			20	1	#12	7	X			8	#12	1	20	720				4	180	DUPLEX
DED. DUPLEX	180	1			180		20	1	#12	9		X		10	#12	1	20		180			1	180	DED. DUPLEX
DUPLEX	180	3				540	20	1	#12	11			X	12	#12	1	20			540		3	180	DUPLEX
QUAD	360	1		360			20	1	#12	13	X			14	#12	1	20	360				1	360	QUAD
DUPLEX GFCI	180	1			180		20	1	#12	15		X		16	#12	1	20		180			1	180	DUPLEX GFCI
LED LIGHTING	50	8				400	20	1	#12	17			X	18	#12	1	20			400		8	50	LED LIGHTING
				0						19	X			20				0						
					0					21		X		22	#12	1	20		180			1	180	DUPLEX - WP GFCI ROOF TOP
						0				23			X	24						0				
				0						25	X			26				0						
					0					27		X		28					0					
						0				29			X	30						0				
	LEG TOTALS			5560	4840	5420												5560	5020	5420	LEG TOTALS			
LCL=2240+31820=34060																								
TOTAL WATTS:	34060									LEG BALANCE:		6.0%									TOTAL AMPS:		94.65	

Panel:	EP-2C			PHASE: 3 Phase			VOLTS: 120/208			MAIN (AMPS): 100					BUSS (AMPS): 125			LOCATION: INTERIOR		FEED: BOTTOM - BELOW FLOOR			MOUNTING: RECESSED	
OBJECT DESCRIPTION	WATTS PER	QTY	LCL	WATTS A	WATTS B	WATTS C	BRK	POLE	WIRE SIZE	CKT #	LEGS A	LEGS B	LEGS C	CKT #	WIRE SIZE	POLE	BRK	WATTS A	WATTS B	WATTS C	LCL	QTY	WATTS PER	OBJECT DESCRIPTION
	4480	1	X	4480						1	X			2	#12	1	20	720				4	180	DUPLEX
RT HVAC - 4 TON	4480	1			4480		PND	3	PND	3		X		4	#12	1	20		180			1	180	DED. DUPLEX
	4480	1				4480				5			X	6	#12	1	20			540		3	180	DUPLEX
EXTERIOR LIGHTING	20	6		120			20	1	#12	7	X			8	#12	1	20	360				1	360	QUAD
					0					9		X		10	#12	1	20		180			1	180	DUPLEX GFCI
						0				11			X	12	#12	1	20			400		8	50	LED LIGHTING
				0						13	X			14				0						
					0					15		X		16	#12	1	20		180			1	180	DUPLEX - WP GFCI ROOF TOP
						0				17			X	18						0				
				0						19	X			20				0						
					0					21		X		22					0					
						0				23			X	24						0				
				0						25	X			26				0						
					0					27		X		28					0					
						0				29			X	30						0				
	LEG TOTALS			4600	4480	4480												1080	540	940	LEG TOTALS			
LCL=1120+16120=17240																								
TOTAL WATTS:	17240									LEG BALANCE:		6.2%									TOTAL AMPS:		47.91	

Panel:	EP-1D			PHASE: 3 Phase			VOLTS: 120/208			MAIN (AMPS): 150					BUSS (AMPS): 225			LOCATION: INTERIOR		FEED: BOTTOM - BELOW FLOOR			MOUNTING: RECESSED	
OBJECT DESCRIPTION	WATTS PER	NO. OF	LCL	WATTS A	WATTS B	WATTS C	BRK	POLE	WIRE SIZE	CKT NO	LEGS A	LEGS B	LEGS C	CKT NO	WIRE SIZE	POLE	BRK	WATTS A	WATTS B	WATTS C	LCL	NO. OF	WATTS PER	OBJECT DESCRIPTION
ROLL UP DOOR MOTOR	800	1		800			20	1	#12	1	X			2	PND	1	PND	400			X	1	400	DED. DUPLEX - GFCI
GFCI	180	3			540					3		X		4	PND	1	PND		800		X	1	800	DED. DUPLEX - GFCI
	4000	1	X			4000				5			X	6	PND	1	PND			1200	X	1	1200	DED. DUPLEX - GFCI
OVEN	4000	1		4000			PND	3	PND	7	X			8	PND	1	PND	400			X	1	400	DED. DUPLEX - GFCI
	4000	1			4000					9		X		10	#12	1	20		180			1	180	DED. DUPLEX - WP GFCI
HOOD DISCONNECT (30AMP)	180	1	X			180	30	1	#12	11			X	12	#12	1	20			180		1	180	DED. DUPLEX - WP GFCI
DED. DUPLEX - GFCI	180	1		180			20	1	#12	13	X			14	#12	1	20	720				4	180	DUPLEX - GFCI
DUPEX - GFCI	180	2			360		20	1	#12	15		X		16	#12	1	20		200			1	200	RR 14-LIGHT AND EF
30 GAL W/H	2250	1	X			2250	30	2	#10	17			X	18	#12	1	20			200		1	200	RR 13-LIGHT AND EF
	2250	1		2250						19	X			20	#12	1	20	710				1	710	RR 12 - LIGHT AND EF
DED. FA	180	1	X		180		20	1	#12	21		X		22	#12	1	20		710			1	710	RR 11 - LIGHT AND EF
DED. 1N	180	1	X			180	20	1	#12	23			X	24	#10	2	20			2080	X	2080	1	INSTAHOT
FLUSHOMETERS	180	1		180			20	1	#12	25	X			26				2080				2080	1	
HAND DRYER	1500	1			1500		20	1	#12	27		X		28	#12	1	20		275			11	25	EXTERIOR SOFFIT LIGH
HAND DRYER	1500	1				1500	20	1	#12	29			X	30	#12	1	20			218		1	218	EF FAN
HAND DRYER	1500	1		1500			20	1	#12	31	X			32				0						
HAND DRYER	1500	1			1500		PND	1	PND	33		X		34	#12	1	20		250			5	50	LED LIGHTS
						0				35			X	36						0				
				0						37	X			38				0						
					0					39		X		40	#12	1	20		180			6	30	EXTEIOR LIGHTING
						0				41			X	42						0				
			LEG TOTALS	8910	8080	8110												4310	2595	3878	LEG TOTALS			
LCL=2352.5+35883=38235.5																								
TOTAL WATTS=38235.5										LEG BALANCE =		10.7%									TOTAL AMPS:		106.26	

LOAD PANEL CALCULATIONS

FIRE ALARM SYSTEM

1. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE, CALIFORNIA FIRE CODE AND THE CALIFORNIA BUILDING CODE.
2. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTINGS FOR EACH COMPONENT OF THE SYSTEM, HAVE BEEN APPROVED BY DSA.
3. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY.
4. JUNCTION BOXES - GALVANIZED SHEET METAL, SQUARE OR RECTANGULAR WITH BLANK COVERS. LOCATE ONE BOX AT REAR OF BUILDING NEAR MAIN ELECTRICAL PANEL @ +18" ABOVE FINISH FLOOR FOR FUTURE CONNECTION.
5. COVERS - INSTALL GASKETED, METAL, WATERPROOF, FINISH COVERS AT EXTERIOR LOCATIONS. INSTALL FINISH COVERS AT INTERIOR LOCATIONS.
6. THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED, AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHALL'S REGULATIONS (CBC SEC. 907.2.3) AND THE 2016 EDITION OF NFPA 72.
7. THE LOCATION OF AUTOMATIC DETECTORS, MANUAL STATIONS AND OTHER FIRE ALARM EQUIPMENT AND DEVICES, AS SHOWN ON PLAN, ARE FOR REFERENCE ONLY AND DO NOT CONSTITUTE SHOP DRAWINGS WHICH ARE REQUIRED FOR REVIEW AND APPROVAL.
8. ALARM-INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 dBA ABOVE THE AVERAGE AMBIENT NOISE LEVELS OR 5dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS, WHICHEVER IS GREATER, MEASURED 5' ABOVE THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL WHICH CAN NORMALLY BE EXPECTED WHEN THE FACILITY, BUILDING, ROOM, OR AREA IS FUNCTIONING UNDER NORMAL OPERATING OR WORKING CONDITIONS (NFPA 72, SEC. 18.4.1).
9. THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNINGS SHALL HAVE A FLASH RATE NOT EXCEEDING TWO FLASHES PER SECOND (2 HZ), NOR BE LESS THAN ONE FLASH EVERY SECOND (1 HZ). STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHALL APPROVED AND LISTED (NFPA 72, SEC. 18.5.3).
10. AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 CHAPTER 26 AS AMENDED BY ARTICLE 91. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER. IF TESTING RESULTS DETERMINE FIRE ALARM AUDIBILITY DOES NOT MEET 15db OVER AMBIENT NOISE LEVELS, ADDITIONAL FIRE ALARM SIGNALING DEVICES MAY BE REQUIRED BY THE ENFORCING AGENCY.

NOTE:
SEE SHEET M1.0 FOR ALL BRACING AND ANCHORAGE NOTES.

GENERAL NOTES

1. GROUNDING ELECTRODE CONDUCTOR SIZED PER CEC.
2. PROVIDE BONDS TO BLDG. STEEL & PANEL (#8 CU)
3. PANEL TO LISTED FOR USE AS SERVICE EQUIPMENT.
4. ALL PANELS, SWITCHES, DISCONNECTS, BREAKERS, METERS, AND OTHER ELECTRICAL ELEMENTS SHALL BE PLACED ABOVE THE ELEVATION REQUIRED BY ASCE 24-14, SECTION 7.2.
5. WHERE FLEXIBLE CONDUIT IS PASSING BETWEEN BUILDING SEPARATION JOINTS, PROVIDE SUFFICIENT LENGTH OF CONDUIT TO PERMIT DIFFERENTIAL DISPLACEMENTS BETWEEN BUILDINGS IN COMPLIANCE WITH ASCE 7 SECTION 13.6.9 & DSA IR PC-2 SECTION 1.18. ADDITIONAL CONDUIT & JOINT DETAIL SHALL BE PROVIDED BY OTHERS.

FIXTURE NOTES:

1. ALL FLUORESCENT LIGHT FIXTURES SHALL HAVE ENERGY SAVING LAMPS AND BALLASTS.
2. LUMINARIES/BALLASTS SHALL BE CERTIFIED PER CALIFORNIA BUILDING CODE, TITLE 24.
3. FLUORESCENT LIGHT FIXTURE TYPE "A" SHALL BE CONTROLLED TO PROVIDE TWO LEVELS OF LIGHTING. SWITCH (SA) SHALL CONTROL THE TWO OUTER LAMPS AND SWITCH (SB) SHALL CONTROL THE TWO INNER LAMPS.
4. ELECTRICAL SERVICE DROP AND CONNECTIONS SUPPLIED BY OTHERS.
5. MANUFACTURER TO PROVIDE STUB-OUT FROM BACK OF ELECTRICAL PANEL THROUGH THE EXTERIOR WALL OR TO BELOW FLOOR FOR RECEIVING EITHER UNDERGROUND OR OVERHEAD SERVICE & FITTING FOR GROUNDING CABLE.
6. ELECTRICAL PANEL BOARD SHALL BE RECESS MOUNTED INSIDE THE BUILDING, SIZED TO ACCOMMODATE ALL CONNECTED LOADS INCLUDING SPACES AS SHOWN. OVERCURRENT PROTECTIVE DEVICES IN THE PANEL BOARDS SHALL HAVE ADEQUATE SHORT CIRCUIT INTERRUPTING CAPACITY. ALL BUSES INCLUDING BUS SHALL BE COPPER OR ALUMINUM.
7. 2X4 FLUORESCENT FIXTURES SHALL HAVE A STEEL FRAME, LENS SHALL BE HINGED AND LOCKED IN PLACE BY TWO LOCKING DEVICES. THE LENS DIFFUSERS SHALL BE KHS, INC. #KSH-2, CAROLITE, INC. #C-12 OR PLASKOLITE, INC. #PL21A. MINIMUM LENS THICKNESS SHALL BE 0.125 INCHES.
8. FLUORESCENT BALLAST SHALL BE ENERGY SAVER WHILE MAINTAINING FULL LIGHT OUTPUT, CLASS "P" EQUIPPED WITH THERMAL PROTECTORS, GUARANTEED AGAINST FAILURE FOR (2) YEARS AND BE REPLACEABLE FROM INSIDE THE FIXTURE.
9. CLOCK - 12" DIAL CLOCK ON CLOCK OUTLET.
   A. CLOCK SHALL BE GENERAL ELECTRIC MODEL 2912 129V 60 CYCLE
   B. CLOCK OUTLET SHALL BE BRYANT #2828 OR EQUAL WITH SEPARABLE HANGING CLIP & APP'D RECEPT. THE H.V.A.C. UNIT FEEDER CIRCUIT - PANEL CIRCUIT BREAKER, FEEDER WIRE, UNIT DISCONNECT AND FUSES (WHERE USED) - IS TO BE COORDINATED WITH THE NAME PLATE DATA AT THE TIME OF MANUFACTURE. H.V.A.C. UNITS HAVING KVA RATINGS LARGER THAN THAT INDICATED ON THIS PANEL SCHEDULE WILL NOT BE ALLOWED TO BE INSTALLED ON THIS BUILDING.
   C. IF 60 DEGREES WIRE IS TO BE USED IN THIS INSTALLATION, CALCULATIONS DEMONSTRATING AMPACITY SHALL BE PROVIDED ON THE DRAWING.

GENERAL NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

MANUFACTURER PROFESSIONAL OF RECORD

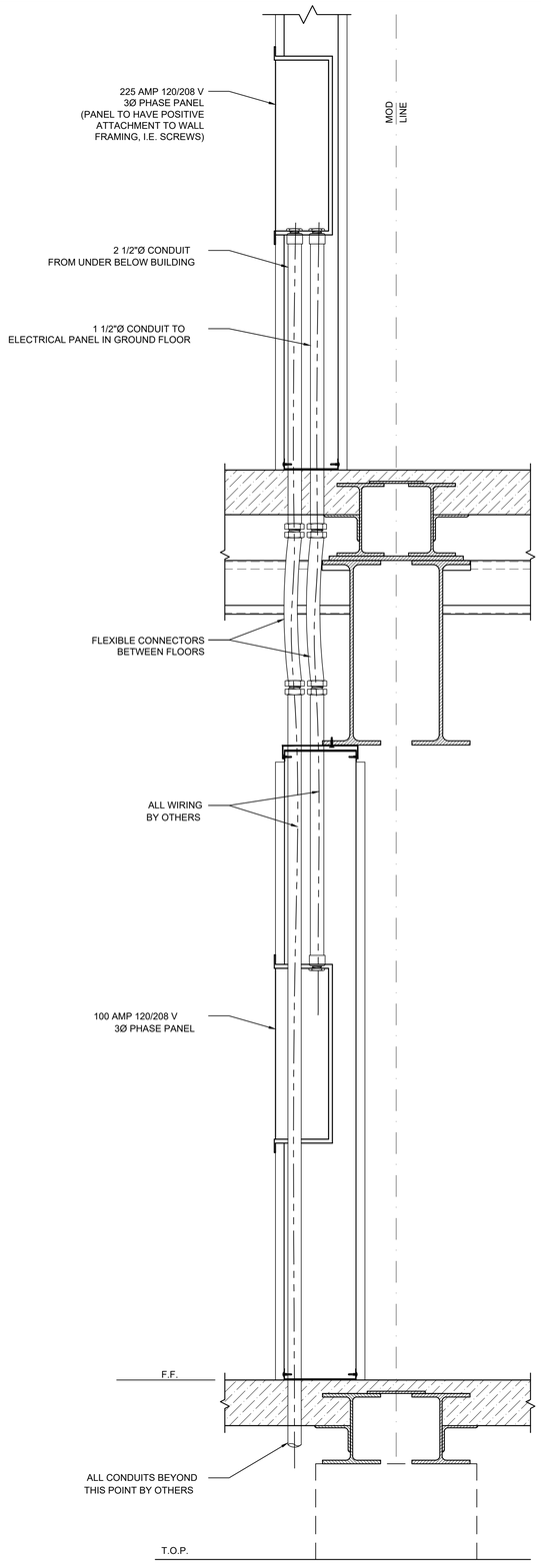
THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS
1
2
3
4

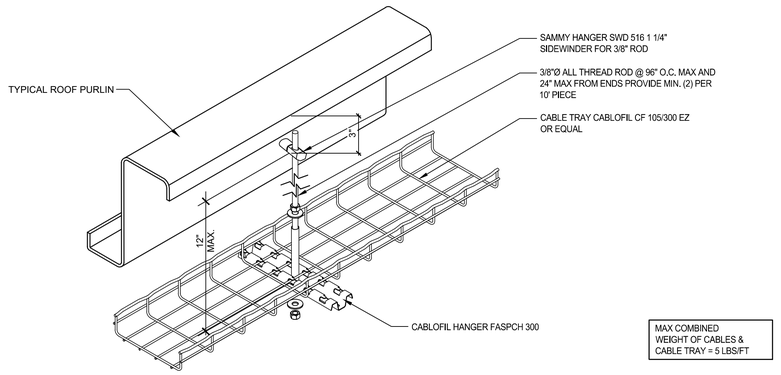
DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
ELECTRICAL NOTES & DETAILS

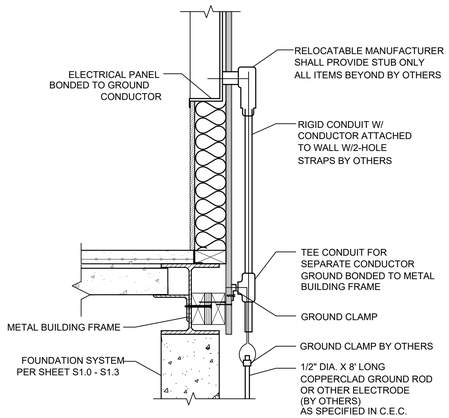
SHEET NUMBER:
E1.2



ELECTRICAL PANEL CONNECTION DETAIL SCALE: 1 1/2"= 1' - 0" | 1



CABLE TRAY DETAIL SCALE: 3"=1' - 0" | 2



SIZE OF CONDUCTORS SHALL COMPLY W/ C.E.C. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL & METAL BUILDING FRAME (CEC), IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10' INTO THE SOIL IF AVAILABLE (CEC).

ELECTRICAL BOND MODULES TOGETHER W/ #8 CU @ MODLINE BY MANUFACTURER. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS (CEC) AS REQUIRED. GROUNDING DETAIL PER DSA IR E-1. INSPECTOR TO WITNESS GROUNDING TEST.

GROUNDING DETAIL SCALE: 1 1/2" = 1' - 0" | 3

FIRE ALARM SYSTEM

1. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE, CALIFORNIA FIRE CODE AND THE CALIFORNIA BUILDING CODE.
2. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTINGS FOR EACH COMPONENT OF THE SYSTEM, HAVE BEEN APPROVED BY DSA.
3. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY.
4. JUNCTION BOXES - GALVANIZED SHEET METAL, SQUARE OR RECTANGULAR WITH BLANK COVERS. LOCATE ONE BOX AT REAR OF BUILDING NEAR MAIN ELECTRICAL PANEL @ +18" ABOVE FINISH FLOOR FOR FUTURE CONNECTION.
5. COVERS - INSTALL GASKETED, METAL, WATERPROOF, FINISH COVERS AT EXTERIOR LOCATIONS. INSTALL FINISH COVERS AT INTERIOR LOCATIONS.
6. THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED, AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHALL'S REGULATIONS (CBC SEC. 907.2.3) AND THE 2016 EDITION OF NFPA 72.
7. THE LOCATION OF AUTOMATIC DETECTORS, MANUAL STATIONS AND OTHER FIRE ALARM EQUIPMENT AND DEVICES, AS SHOWN ON PLAN, ARE FOR REFERENCE ONLY AND DO NOT CONSTITUTE SHOP DRAWINGS WHICH ARE REQUIRED FOR REVIEW AND APPROVAL.
8. ALARM-INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 dBA ABOVE THE AVERAGE AMBIENT NOISE LEVELS OR 5dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS, WHICHEVER IS GREATER, MEASURED 5' ABOVE THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL WHICH CAN NORMALLY BE EXPECTED WHEN THE FACILITY, BUILDING, ROOM, OR AREA IS FUNCTIONING UNDER NORMAL OPERATING OR WORKING CONDITIONS (NFPA 72, SEC. 18.4.1).
9. THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNINGS SHALL HAVE A FLASH RATE NOT EXCEEDING TWO FLASHES PER SECOND (2 HZ), NOR BE LESS THAN ONE FLASH EVERY SECOND (1 HZ). STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHALL APPROVED AND LISTED (NFPA 72, SEC. 18.5.3).
10. AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72, CHAPTER 26. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER. IF TESTING RESULTS DETERMINE FIRE ALARM AUDIBILITY DOES NOT MEET 15db OVER AMBIENT NOISE LEVELS, ADDITIONAL FIRE ALARM SIGNALING DEVICES MAY BE REQUIRED BY THE ENFORCING AGENCY.

GENERAL NOTES

1. GROUNDING ELECTRODE CONDUCTOR SIZED PER CEC.
2. PROVIDE BONDS TO BLDG. STEEL & PANEL (#8 CU)
3. PANEL TO LISTED FOR USE AS SERVICE EQUIPMENT.
4. ALL PANELS, SWITCHES, DISCONNECTS, BREAKERS, METERS, AND OTHER ELECTRICAL ELEMENTS SHALL BE PLACED ABOVE THE ELEVATION REQUIRED BY ASCE 24-14, SECTION 7.2.
5. WHERE FLEXIBLE CONDUIT IS PASSING BETWEEN BUILDING SEPARATION JOINTS, PROVIDE SUFFICIENT LENGTH OF CONDUIT TO PERMIT DIFFERENTIAL DISPLACEMENTS BETWEEN BUILDINGS IN COMPLIANCE WITH ASCE 7 SECTION 13.6.9 & DSA IR PC-2 SECTION 1.18. ADDITIONAL CONDUIT & JOINT DETAIL SHALL BE PROVIDED BY OTHERS.

FIXTURE NOTES:

1. ALL FLUORESCENT LIGHT FIXTURES SHALL HAVE ENERGY SAVING LAMPS AND BALLASTS.
2. LUMINARIES/BALLASTS SHALL BE CERTIFIED PER CALIFORNIA BUILDING CODE, TITLE 24.
3. FLUORESCENT LIGHT FIXTURE TYPE "A" SHALL BE CONTROLLED TO PROVIDE TWO LEVELS OF LIGHTING. SWITCH (SA) SHALL CONTROL THE TWO OUTER LAMPS AND SWITCH (SB) SHALL CONTROL THE TWO INNER LAMPS.
4. ELECTRICAL SERVICE DROP AND CONNECTIONS SUPPLIED BY OTHERS.
5. MANUFACTURER TO PROVIDE STUB-OUT FROM BACK OF ELECTRICAL PANEL THROUGH THE EXTERIOR WALL OR TO BELOW FLOOR FOR RECEIVING EITHER UNDERGROUND OR OVERHEAD SERVICE & FITTING FOR GROUNDING CABLE.
6. ELECTRICAL PANEL BOARD SHALL BE RECESS MOUNTED INSIDE THE BUILDING, SIZED TO ACCOMMODATE ALL CONNECTED LOADS INCLUDING SPACES AS SHOWN. OVERCURRENT PROTECTIVE DEVICES IN THE PANEL BOARDS SHALL HAVE ADEQUATE SHORT CIRCUIT INTERRUPTING CAPACITY. ALL BUSES INCLUDING BUS SHALL BE COPPER OR ALUMINUM.
7. 2X4 FLUORESCENT FIXTURES SHALL HAVE A STEEL FRAME, LENS SHALL BE HINGED AND LOCKED IN PLACE BY TWO LOCKING DEVICES. THE LENS DIFFUSERS SHALL BE KHS, INC. #KSH-2, CAROLITE, INC. #C-12 OR PLASKOLITE, INC. #PL21A. MINIMUM LENS THICKNESS SHALL BE 0.125 INCHES.
8. FLUORESCENT BALLAST SHALL BE ENERGY SAVER WHILE MAINTAINING FULL LIGHT OUTPUT, CLASS "P" EQUIPPED WITH THERMAL PROTECTORS, GUARANTEED AGAINST FAILURE FOR (2) YEARS AND BE REPLACEABLE FROM INSIDE THE FIXTURE.
9. CLOCK - 12" DIAL CLOCK ON CLOCK OUTLET.
   A. CLOCK SHALL BE GENERAL ELECTRIC MODEL 2912 129V 60 CYCLE
   B. CLOCK OUTLET SHALL BE BRYANT #2828 OR EQUAL WITH SEPARABLE HANGING CLIP & APP'D RECEPT. THE H.V.A.C. UNIT FEEDER CIRCUIT - PANEL CIRCUIT BREAKER, FEEDER WIRE, UNIT DISCONNECT AND FUSES (WHERE USED) - IS TO BE COORDINATED WITH THE NAME PLATE DATA AT THE TIME OF MANUFACTURE. H.V.A.C. UNITS HAVING KVA RATINGS LARGER THAN THAT INDICATED ON THIS PANEL SCHEDULE WILL NOT BE ALLOWED TO BE INSTALLED ON THIS BUILDING.
   C. IF 60 DEGREES WIRE IS TO BE USED IN THIS INSTALLATION, CALCULATIONS DEMONSTRATING AMPACITY SHALL BE PROVIDED ON THE DRAWING.
10. ELECTRICAL CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO BE LOCATED NO MORE THAN. SPECIFY ELECTRICAL CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM CR AREA TO BE LOCATED NO MORE THAN 48" MEASURED FROM THE TOP OF THE OUTLET BOX AND NO LESS THAN 15" MEASURED FROM THE BOTTOM OF THE OUTLET BOX TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM. SPECIFY ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES TO BE LOCATED NO MORE THAN 48" MEASURED FROM THE TOP OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING AND NO LESS THAN 15" MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM.

GENERAL NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK LEONARD LEE
No. C12138
Ren. 3-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
JOSEPH PATRICK GLENNON
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
ELECTRICAL NOTES
& DETAILS

SHEET NUMBER:
E1.3

G:\XXXX_2-Shts.dgf ,28" x 40" (SAVED: 6/1/2022 1:57 PM) PLOTTED: 6/3/2022 10:52 AM BY: Pimpinella,Vicki (999,999,999,999)\01214 Santa Cruz City Schools, Gault ES\PRE_MANUFACTURER\E1.3 - Gault ES - ELECT NOTES AND DET.dwg

LOAD PANEL CALCULATIONS

Panel: EP-1A | PHASE: 3 Phase | VOLTS: 120/208 | MAIN (AMPS): 100 | BUSS (AMPS): 125 | LOCATION: INTERIOR | FEED: BOTTOM - BELOW FLOOR | MOUNTING: RECESSED

OBJECT DESCRIPTION	WATTS PER	QTY	LCL	WATTS A	WATTS B	WATTS C	BRK	POLE	WIRE SIZE	CKT #	LEGS A	LEGS B	LEGS C	CKT #	WIRE SIZE	POLE	BRK	WATTS A	WATTS B	WATTS C	LCL	QTY	WATTS PER	OBJECT DESCRIPTION
	3334	1		3334						1	X			2	#12	1	20	180				1	180	DUPLEX
5 TON HVAC	3334	1			3334		PND	3	PND	3		X		4	#12	1	20		720			4	180	DUPLEX
	3334	1				3334				5			X	6	#12	1	20			540		3	180	DUPLEX
DRINKING FOUNTAIN	400	1		400			20	1	#12	7	X			8	#12	1	20	180				1	180	DUPLEX - WP GFCI
LED LIGHTING	50	13			650		20	1	#12	9		X		10	#12	1	20		360			2	180	SPARE
						0				11			X	12	#12	1	20			540		3	180	SPARE
				0						13	X			14	#12	1	20	1080				6	180	SPARE
					0					15		X		16					0					
						0				17			X	18						0				
				0						19	X			20				0						
					0					21		X		22					0					
						0				23			X	24						0				
				0						25	X			26				0						
					0					27		X		28					0					
						0				29			X	30						0				
	LEG TOTALS			3734	3984	3334												1440	1080	1080	LEG TOTALS			

LCL=0+14652=14652
TOTAL WATTS: 14652 | LEG BALANCE: 7.9% | TOTAL AMPS: 40.72

Panel: EP-2A | PHASE: 3 Phase | VOLTS: 120/208 | MAIN (AMPS): 200 | BUSS (AMPS): 225 | LOCATION: INTERIOR | FEED: BOTTOM - BELOW FLOOR | MOUNTING: RECESSED

OBJECT DESCRIPTION	WATTS PER	QTY	LCL	WATTS A	WATTS B	WATTS C	BRK	POLE	WIRE SIZE	CKT #	LEGS A	LEGS B	LEGS C	CKT #	WIRE SIZE	POLE	BRK	WATTS A	WATTS B	WATTS C	LCL	QTY	WATTS PER	OBJECT DESCRIPTION
	4480	1	X	4480						1	X			2				4480			X	1	4480	
RT HVAC - 4 TON	4480	1			4480		PND	3	PND	3		X		4	PND	3	PND		4480			1	4480	RT HVAC - 4 TON
	4480	1				4480				5			X	6						4480		1	4480	
DUPLEX	180	4		720			20	1	#12	7	X			8	#12	1	20	720				4	180	DUPLEX
DED. DUPLEX	180	1			180		20	1	#12	9		X		10	#12	1	20		180			1	180	DED. DUPLEX
DUPLEX	180	3				540	20	1	#12	11			X	12	#12	1	20			540		3	180	DUPLEX
QUAD	360	1		360			20	1	#12	13	X			14	#12	1	20	360				1	360	QUAD
DUPLEX GFCI	180	1			180		20	1	#12	15		X		16	#12	1	20		180			1	180	DUPLEX GFCI
LED LIGHTING	50	8				400	20	1	#12	17			X	18	#12	1	20			400		8	50	LED LIGHTING
				0						19	X			20				0						
					0					21		X		22	#12	1	20		180			1	180	DUPLEX - WP GFCI ROOF TOP
						0				23			X	24						0				
				5174						25	X			26				0						
EP-1A					5064		100	3	REFER TO AOR SINGLE LINE	27		X		28					0					
						4414				29			X	30						0				
	LEG TOTALS			10734	9904	9834												5560	5020	5420	LEG TOTALS			

LCL=2240+46472=48712
TOTAL WATTS: 48712 | LEG BALANCE: 4.4% | TOTAL AMPS: 135.37

Panel: EP-1B | PHASE: 3 Phase | VOLTS: 120/208 | MAIN (AMPS): 100 | BUSS (AMPS): 125 | LOCATION: INTERIOR | FEED: BOTTOM - BELOW FLOOR | MOUNTING: RECESSED

OBJECT DESCRIPTION	WATTS PER	QTY	LCL	WATTS A	WATTS B	WATTS C	BRK	POLE	WIRE SIZE	CKT #	LEGS A	LEGS B	LEGS C	CKT #	WIRE SIZE	POLE	BRK	WATTS A	WATTS B	WATTS C	LCL	QTY	WATTS PER	OBJECT DESCRIPTION
	3334	1		3334						1	X			2	#12	1	20	180				1	180	DUPLEX
4 TON HVAC	3334	1			3334		PND	3	PND	3		X		4	#12	1	20		180			1	180	DUPLEX - WP GFCI
	3334	1				3334				5			X	6	#12	1	20			360		1	360	QUAD
FIRE RISER	1200	1		1200			20	1	#12	7	X			8	#12	1	20	180				1	180	DUPLEX
LED LIGHTING	50	13			650		20	1	#12	9		X		10	#12	1	20		540			3	180	DUPLEX
						0				11			X	12	#12	1	20			540		3	180	SPARE
				0						13	X			14				3334				1	3334	
					0					15		X		16	PND	3	PND		3334			1	3334	4 TON HVAC
						0				17			X	18						3334		1	3334	
				0						19	X			20				0						
					0					21		X		22					0					
						0				23			X	24						0				
				0						25	X			26				0						
					0					27		X		28					0					
						0				29			X	30						0				
	LEG TOTALS			4534	3984	3334												3694	4054	4234	LEG TOTALS			

LCL=0+23834=23834
TOTAL WATTS: 23834 | LEG BALANCE: 4.2% | TOTAL AMPS: 66.23

Panel: EP-2B | PHASE: 3 Phase | VOLTS: 120/208 | MAIN (AMPS): 200 | BUSS (AMPS): 225 | LOCATION: INTERIOR | FEED: BOTTOM - BELOW FLOOR | MOUNTING: RECESSED

OBJECT DESCRIPTION	WATTS PER	QTY	LCL	WATTS A	WATTS B	WATTS C	BRK	POLE	WIRE SIZE	CKT #	LEGS A	LEGS B	LEGS C	CKT #	WIRE SIZE	POLE	BRK	WATTS A	WATTS B	WATTS C	LCL	QTY	WATTS PER	OBJECT DESCRIPTION
	4480	1	X	4480						1	X			2				4480			X	1	4480	
RT HVAC - 4 TON	4480	1			4480		PND	3	PND	3		X		4	PND	3	PND		4480			1	4480	RT HVAC - 4 TON
	4480	1				4480				5			X	6						4480		1	4480	
DUPLEX	180	4		720			20	1	#12	7	X			8	#12	1	20	720				4	180	DUPLEX
DED. DUPLEX	180	1			180		20	1	#12	9		X		10	#12	1	20		180			1	180	DED. DUPLEX
DUPLEX	180	3				540	20	1	#12	11			X	12	#12	1	20			540		3	180	DUPLEX
QUAD	360	1		360			20	1	#12	13	X			14	#12	1	20	360				1	360	QUAD
DUPLEX GFCI	180	1			180		20	1	#12	15		X		16	#12	1	20		180			1	180	DUPLEX GFCI
LED LIGHTING	50	8				400	20	1	#12	17			X	18	#12	1	20			400		8	50	LED LIGHTING
				0						19	X			20				0						
					0					21		X		22	#12	1	20		180			1	180	DUPLEX - WP GFCI ROOF TOP
						0				23			X	24						0				
				8228						25	X			26				0						
EP-B1					5064		100	3	REFER TO AOR SINGLE LINE	27		X		28					0					
						7568				29			X	30						0				
	LEG TOTALS			13788	9904	12988												5560	5020	5420	LEG TOTALS			

LCL=2240+52680=54920
TOTAL WATTS: 54920 | LEG BALANCE: 12.9% | TOTAL AMPS: 152.62

Panel: EP-1C | PHASE: 3 Phase | VOLTS: 120/208 | MAIN (AMPS): 100 | BUSS (AMPS): 125 | LOCATION: INTERIOR | FEED: BOTTOM - BELOW FLOOR | MOUNTING: RECESSED

OBJECT DESCRIPTION	WATTS PER	QTY	LCL	WATTS A	WATTS B	WATTS C	BRK	POLE	WIRE SIZE	CKT #	LEGS A	LEGS B	LEGS C	CKT #	WIRE SIZE	POLE	BRK	WATTS A	WATTS B	WATTS C	LCL	QTY	WATTS PER	OBJECT DESCRIPTION
	3334	1		3334						1	X			2	#12	1	20	720				4	180	DUPLEX
4 TON HVAC	3334	1			3334		PND	3	PND	3		X		4	#12	1	20		180			1	180	DED. DUPLEX
	3334	1				3334				5			X	6	#12	1	20			540		3	180	DUPLEX
DUPLEX - WP GFCI	180	1		180			20	1	#12	7	X			8	#12	1	20	360				1	360	QUAD
DUPLEX	180	3			540		20	1	#12	9		X		10	#12	1	20		180			1	180	DUPLEX GFCI
Spare	180	3				540	20	1	#12	11			X	12	#12	1	20			400		8	50	LED LIGHTING
				0						13	X			14				0						
					0					15		X		16					0					
						0				17			X	18						0				
				0						19	X			20				0						
					0					21		X		22					0					
						0				23			X	24						0				
				0						25	X			26				0						
					0					27		X		28					0					
						0				29			X	30						0				
	LEG TOTALS			3514	3874	3874												1080	360	940	LEG TOTALS			

LCL=0+13642=13642
TOTAL WATTS: 13642 | LEG BALANCE: 6.4% | TOTAL AMPS: 37.91

Panel: EP-2C | PHASE: 3 Phase | VOLTS: 120/208 | MAIN (AMPS): 125 | BUSS (AMPS): 125 | LOCATION: INTERIOR | FEED: BOTTOM - BELOW FLOOR | MOUNTING: RECESSED

OBJECT DESCRIPTION	WATTS PER	QTY	LCL	WATTS A	WATTS B	WATTS C	BRK	POLE	WIRE SIZE	CKT #	LEGS A	LEGS B	LEGS C	CKT #	WIRE SIZE	POLE	BRK	WATTS A	WATTS B	WATTS C	LCL	QTY	WATTS PER	OBJECT DESCRIPTION
	4480	1	X	4480						1	X			2	#12	1	20	720				4	180	DUPLEX
RT HVAC - 4 TON	4480	1			4480		PND	3	PND	3		X		4	#12	1	20		180			1	180	DED. DUPLEX
	4480	1				4480				5			X	6	#12	1	20			540		3	180	DUPLEX
EXTERIOR LIGHTING	20	6		120			20	1	#12	7	X			8	#12	1	20	360				1	360	QUAD
					0					9		X		10	#12	1	20		180			1	180	DUPLEX GFCI
						0				11			X	12	#12	1	20			400		8	50	LED LIGHTING
				0						13	X			14				0						
					0					15		X		16	#12	1	20		180			1	180	DUPLEX - WP GFCI ROOF TOP
						0				17			X	18						0				
				0						19	X			20				0						
					0					21		X		22					0					
						0				23			X	24						0				
				4594						25	X			26				0						
EP-C1					4234		100	3	REFER TO AOR SINGLE LINE	27		X		28					0					
						4814				29			X	30						0				
	LEG TOTALS			9194	8714	9294												1080	540	940	LEG TOTALS			

LCL=1120+29762=30882
TOTAL WATTS: 30882 | LEG BALANCE: 5.2% | TOTAL AMPS: 85.82

Panel: EP-1D | PHASE: 3 Phase | VOLTS: 120/208 | MAIN (AMPS): 150 | BUSS (AMPS): 225 | LOCATION: INTERIOR | FEED: BOTTOM - BELOW FLOOR | MOUNTING: RECESSED

OBJECT DESCRIPTION	WATTS PER	NO. OF	LCL	WATTS A	WATTS B	WATTS C	BRK	POLE	WIRE SIZE	CKT NO	LEGS A	LEGS B	LEGS C	CKT NO	WIRE SIZE	POLE	BRK	WATTS A	WATTS B	WATTS C	LCL	NO. OF	WATTS PER	OBJECT DESCRIPTION
ROLL UP DOOR MOTOR	800	1		800			20	1	#12	1	X			2	PND	1	PND	800			X	1	800	DED. DUPLEX - GFCI
GFCI	180	3			540					3		X		4	PND	1	PND		800		X	1	800	DED. DUPLEX - GFCI
	4000	1	X			4000				5			X	6	PND	1	PND			1200	X	1	1200	DED. DUPLEX - GFCI
OVEN	4000	1		4000			PND	3	PND	7	X			8	PND	1	PND	400			X	1	400	DED. DUPLEX - GFCI
	4000	1			4000					9		X		10	#12	1	20		180			1	180	DED. DUPLEX - WP GFCI
HOOD DISCONNECT (30AMP)	180	1	X			180	30	1	#12	11			X	12	#12	1	20			180		1	180	DED. DUPLEX - WP GFCI
DED. DUPLEX - GFCI	180	1		180			20	1	#12	13	X			14	#12	1	20	720				4	180	DUPLEX - GFCI
DUPEX - GFCI	180	2			360		20	1	#12	15		X		16	#12	1	20		200			1	200	RR 14-LIGHT AND EF
30 GAL W/H	2250	1	X			2250	30	2	#10	17			X	18	#12	1	20			200		1	200	RR 13-LIGHT AND EF
	2250	1		2250						19	X			20	#12	1	20	710				1	710	RR 12 - LIGHT AND EF
DED. FA	180	1	X		180		20	1	#12	21		X		22	#12	1	20		710			1	710	RR 11 - LIGHT AND EF
DED. 1N	180	1	X			180	20	1	#12	23			X	24	#10	2	20			2080	X	2080	1	INSTAHOT
FLUSHOMETERS	180	1		180			20	1	#12	25	X			26				2080				2080	1	
HAND DRYER	1500	1			1500		20	1	#12	27		X		28	#12	1	20		275			11	25	EXTERIOR SOFFIT LIGH
HAND DRYER	1500	1				1500	20	1	#12	29			X	30	#12	1	20			218		1	218	EF FAN
HAND DRYER	1500	1		1500			20	1	#12	31	X			32	#12	1	20	250				5	50	LED LIGHTS
HAND DRYER	1500	1			1500		PND	1	PND	33		X		34		1	20		2000			1	2000	Future Hood
						0				35			X	36		1	20			2000		1	2000	Future Hood
				0						37	X			38				0						
					0					39		X		40	#12	1	20		180			6	30	EXTEIOR LIGHTING
						0				41			X	42						0				
		LEG TOTALS		8910	8080	8110												4960	4345	5878	LEG TOTALS			

LCL=2452.5+40283=42735.5
TOTAL WATTS=42735.5 | LEG BALANCE = 5.9% | TOTAL AMPS: 118.76

NOTE:
FIRE ALARM DEDICATED CIRCUIT SHALL BE IDENTIFIED WITH A RED MARKED DISCONNECT WITH LOCK-ON CAPABILITY (NFPA 72 10.6.5.2)

LOAD PANEL CALCULATIONS

FIRE ALARM SYSTEM

1. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE, CALIFORNIA FIRE CODE AND THE CALIFORNIA BUILDING CODE.
2. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTINGS FOR EACH COMPONENT OF THE SYSTEM, HAVE BEEN APPROVED BY DSA.
3. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY.
4. JUNCTION BOXES - GALVANIZED SHEET METAL, SQUARE OR RECTANGULAR WITH BLANK COVERS. LOCATE ONE BOX AT REAR OF BUILDING NEAR MAIN ELECTRICAL PANEL @ +18" ABOVE FINISH FLOOR FOR FUTURE CONNECTION.
5. COVERS - INSTALL GASKETED, METAL, WATERPROOF, FINISH COVERS AT EXTERIOR LOCATIONS. INSTALL FINISH COVERS AT INTERIOR LOCATIONS.
6. THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED, AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHALL'S REGULATIONS (CBC SEC. 907.2.3) AND THE 2016 EDITION OF NFPA 72.
7. THE LOCATION OF AUTOMATIC DETECTORS, MANUAL STATIONS AND OTHER FIRE ALARM EQUIPMENT AND DEVICES, AS SHOWN ON PLAN, ARE FOR REFERENCE ONLY AND DO NOT CONSTITUTE SHOP DRAWINGS WHICH ARE REQUIRED FOR REVIEW AND APPROVAL.
8. ALARM-INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 dBA ABOVE THE AVERAGE AMBIENT NOISE LEVELS OR 5dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS, WHICHEVER IS GREATER, MEASURED 5' ABOVE THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL WHICH CAN NORMALLY BE EXPECTED WHEN THE FACILITY, BUILDING, ROOM, OR AREA IS FUNCTIONING UNDER NORMAL OPERATING OR WORKING CONDITIONS (NFPA 72, SEC. 18.4.1).
9. THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNINGS SHALL HAVE A FLASH RATE NOT EXCEEDING TWO FLASHES PER SECOND (2 HZ), NOR BE LESS THAN ONE FLASH EVERY SECOND (1 HZ). STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHALL APPROVED AND LISTED (NFPA 72, SEC. 18.5.3).
10. AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72, CHAPTER 26. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER. IF TESTING RESULTS DETERMINE FIRE ALARM AUDIBILITY DOES NOT MEET 15db OVER AMBIENT NOISE LEVELS, ADDITIONAL FIRE ALARM SIGNALING DEVICES MAY BE REQUIRED BY THE ENFORCING AGENCY.

GENERAL NOTES

1. GROUNDING ELECTRODE CONDUCTOR SIZED PER CEC.
2. PROVIDE BONDS TO BLDG. STEEL & PANEL (#8 CU)
3. PANEL TO LISTED FOR USE AS SERVICE EQUIPMENT.
4. ALL PANELS, SWITCHES, DISCONNECTS, BREAKERS, METERS, AND OTHER ELECTRICAL ELEMENTS SHALL BE PLACED ABOVE THE ELEVATION REQUIRED BY ASCE 24-14, SECTION 7.2.
5. WHERE FLEXIBLE CONDUIT IS PASSING BETWEEN BUILDING SEPARATION JOINTS, PROVIDE SUFFICIENT LENGTH OF CONDUIT TO PERMIT DIFFERENTIAL DISPLACEMENTS BETWEEN BUILDINGS IN COMPLIANCE WITH ASCE 7 SECTION 13.6.9 & DSA IR PC-2 SECTION 1.18. ADDITIONAL CONDUIT & JOINT DETAIL SHALL BE PROVIDED BY OTHERS.

FIXTURE NOTES:

1. ALL FLUORESCENT LIGHT FIXTURES SHALL HAVE ENERGY SAVING LAMPS AND BALLASTS.
2. LUMINARIES/BALLASTS SHALL BE CERTIFIED PER CALIFORNIA BUILDING CODE, TITLE 24.
3. FLUORESCENT LIGHT FIXTURE TYPE "A" SHALL BE CONTROLLED TO PROVIDE TWO LEVELS OF LIGHTING. SWITCH (SA) SHALL CONTROL THE TWO OUTER LAMPS AND SWITCH (SB) SHALL CONTROL THE TWO INNER LAMPS.
4. ELECTRICAL SERVICE DROP AND CONNECTIONS SUPPLIED BY OTHERS.
5. MANUFACTURER TO PROVIDE STUB-OUT FROM BACK OF ELECTRICAL PANEL THROUGH THE EXTERIOR WALL OR TO BELOW FLOOR FOR RECEIVING EITHER UNDERGROUND OR OVERHEAD SERVICE & FITTING FOR GROUNDING CABLE.
6. ELECTRICAL PANEL BOARD SHALL BE RECESS MOUNTED INSIDE THE BUILDING, SIZED TO ACCOMMODATE ALL CONNECTED LOADS INCLUDING SPACES AS SHOWN. OVERCURRENT PROTECTIVE DEVICES IN THE PANEL BOARDS SHALL HAVE ADEQUATE SHORT CIRCUIT INTERRUPTING CAPACITY. ALL BUSES INCLUDING BUS SHALL BE COPPER OR ALUMINUM.
7. 2X4 FLUORESCENT FIXTURES SHALL HAVE A STEEL FRAME, LENS SHALL BE HINGED AND LOCKED IN PLACE BY TWO LOCKING DEVICES. THE LENS DIFFUSERS SHALL BE KHS, INC. #KSH-2, CAROLITE, INC. #C-12 OR PLASKOLITE, INC. #PL21A. MINIMUM LENS THICKNESS SHALL BE 0.125 INCHES.
8. FLUORESCENT BALLAST SHALL BE ENERGY SAVER WHILE MAINTAINING FULL LIGHT OUTPUT, CLASS "P" EQUIPPED WITH THERMAL PROTECTORS, GUARANTEED AGAINST FAILURE FOR (2) YEARS AND BE REPLACEABLE FROM INSIDE THE FIXTURE.
9. CLOCK - 12" DIAL CLOCK ON CLOCK OUTLET.
   A. CLOCK SHALL BE GENERAL ELECTRIC MODEL 2912 129V 60 CYCLE
   B. CLOCK OUTLET SHALL BE BRYANT #2828 OR EQUAL WITH SEPARABLE HANGING CLIP & APP'D RECEPT. THE H.V.A.C. UNIT FEEDER CIRCUIT - PANEL CIRCUIT BREAKER, FEEDER WIRE, UNIT DISCONNECT AND FUSES (WHERE USED) - IS TO BE COORDINATED WITH THE NAME PLATE DATA AT THE TIME OF MANUFACTURE. H.V.A.C. UNITS HAVING KVA RATINGS LARGER THAN THAT INDICATED ON THIS PANEL SCHEDULE WILL NOT BE ALLOWED TO BE INSTALLED ON THIS BUILDING.
   C. IF 60 DEGREES WIRE IS TO BE USED IN THIS INSTALLATION, CALCULATIONS DEMONSTRATING AMPACITY SHALL BE PROVIDED ON THE DRAWING.
10. ELECTRICAL CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO BE LOCATED NO MORE THAN. SPECIFY ELECTRICAL CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM CR AREA TO BE LOCATED NO MORE THAN 48" MEASURED FROM THE TOP OF THE OUTLET BOX AND NO LESS THAN 15" MEASURED FROM THE BOTTOM OF THE OUTLET BOX TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM. SPECIFY ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES TO BE LOCATED NO MORE THAN 48" MEASURED FROM THE TOP OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING AND NO LESS THAN 15" MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM.

GENERAL NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

MANUFACTURER PROFESSIONAL OF RECORD

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

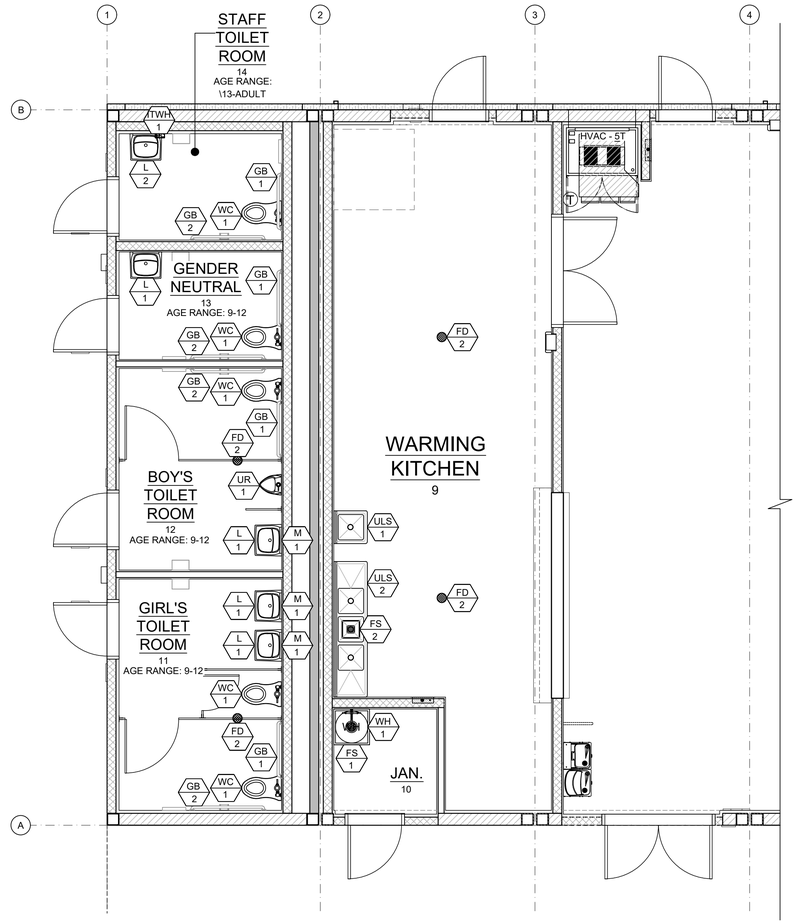
REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
ELECTRICAL PANEL SCHEDULES & NOTES

SHEET NUMBER:
E1.3A

02-XXXXXX - 2-Story 48' - 228' x 40' - SAVED: 6/14/2022 4:57 PM PLOTTED: 6/21/2022 10:52 AM W:\Projects\1000-1999\1600-1699\1657-21 Santa Cruz City Schools- Gault ES\PRELIMINARY\DWG\76 - 02 - 119145 - E1.3 - Gault ES - ELECT NOTES AND DET.dwg



BOYS, GIRLS, GENDER NEUTRAL & STAFF R.R. PLAN

SCALE : 1/4"=1'-0" | 1

MARK	FIXTURE[1]	TYPE AT MIDDLE SCHOOL (AGES 9-12)	TYPE AT HIGH SCHOOL (AGES 13-ADULT)	REMARKS
WC 2 / 1 / ADA	WATER CLOSET	WALL MOUNT TYPE KOHLER 'KINGSTON' MODEL K-4325 OR EQUAL. LOWEST AT 15" A.F.F. - FLOW RATE OF 1.28 G.P.F.	WALL MOUNT TYPE KOHLER 'KINGSTON' MODEL K-4325 OR EQUAL. LOWEST AT 17" A.F.F. - FLOW RATE OF 1.28 G.P.F.	FLUSH VALVE ZURN MODEL Z6000AV-HET - 1.28 G.P.F OR EQUAL. LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0.
L 1	BOYS/GIRLS LAVATORY	KOHLER 'KINGSTON' MODEL K-2007-0		BOY/GIRL RESTROOM - ZURN MODEL 86100-XL-3M - COLD WATER ONLY - SINGLE SPOUT MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0 - FLOW RATE OF 0.5 G.P.M. METER FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MIN.
L 2	ADULT LAVATORY	KOHLER 'KINGSTON' MODEL K-2005-0		ADULT RESTROOM - ZURN MODEL Z7440-XL-FC HOT/COLD WATER - 4" ON CENTER HOLE. MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0 - FLOW RATE OF 0.5 G.P.M.
UR 1	URINAL	WALL MOUNT TYPE KOHLER MODEL DEXTER K-5452-ET-0 OR EQUAL FLOW RATE = 0.125 gpf		FLUSH VALVE ZURN MODEL Z6003-ULF (0.125gpf) OR EQUAL. MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0
M 1	MIRROR	WALL MOUNT TYPE BOBRICK MODEL B165 18X30 OR EQUAL		MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE MIRROR PER SCHEDULE 10/P2.0
GB 1 / GB 2	36" GRAB BARS / 48" GRAB BARS	WALL MOUNT TYPE CREATIVE SPECIALTIES INTERNATIONAL MODEL 8736 & 8748 (1 1/4" CONCEALED SCREW 36"& 48") OR EQUAL		18 GA. 304 STAINLESS STEEL SATIN FINISH MOUNT AS SPECIFIED IN FLOOR PLANS AND PER SCHEDULE 10/P2.0. (STRUCTURAL STRENGTH OF GRAB BARS 250# MIN.)
WH 1	WATER HEATER	RHEEM 20 GALLON ELECTRIC WATER HEATER MODEL PROE20-1-RH-POU 240 VOLT SINGLE PHASE		AVAILABLE IN 6, 10, 20 AND 30 GALLON MODELS (MAX WATER HEATER WEIGHT) PER 6/M1.4 OR 1/P.20
TWH 1	INSTANT-TEMP WATER HEATER	CHRONOMITE INSTANT-TEMP WATER HEATER MODEL M20L/240 INSTANT SINGLE PHASE 104°		CHRONOMITE MODEL M20L/208 OR EQUAL SEE DETAIL 7/P2.0
FS 1	CUSTODIAN SINK	FLORESTONE FLOOR SINK MOLDED MOP RECEPTORS MODEL MSR-2424 W/ 3" DRAIN OR EQUAL		ZURN 843-MI-RC OR EQUAL
ULS 1	UTILITY SINK	WALL MOUNT TYPE FLORESTONE FM OR EQUAL		CAITLIN CBK110CP OR EQUAL
FD 2	FLOOR DRAIN	CONCRETE FLOOR DRAIN ZURN MODEL P415-CC W/ STANDARD GRATE ZURN 33160-002 OR EQUAL		LOCATE AS SPECIFIED ON FLOOR PLANS. (FLOOR DRAIN TO BE USED ON CONCRETE ONLY.)
CS 1	CLASSROOM SINK	ROC MODEL 25103 25X22 SINGLE BOWL SINK OR EQUAL		FAUCET - ZURN MODEL Z2871-B4-XL W/WRIST BLADES. LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0
HB 1	HOSE BIBB	RECESSED HOSE BIBB WOODFORD MODEL B75CH OR EQUAL		LOCATE AS SPECIFIED ON FLOOR PLANS.
FS 2	FLOOR SINK	FLORESTONE FLOOR SINK MOLDED MOP RECEPTORS MODEL MSR-2424 W/ 3" DRAIN OR EQUAL		ZURN 843-MI-RC OR EQUAL
ULS 2	UTILITY SINK	WALL MOUNT TYPE FLORESTONE FM OR EQUAL		CAITLIN CBK110CP OR EQUAL

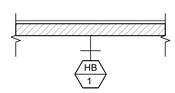
NOTES:
1. ALL WATER FIXTURES MUST MEET REQUIREMENTS OF CAL-GREEN TITLE 24, PART 11, SECTION 5.303.3 "WATER CONSERVING PLUMBING FIXTURES & FITTINGS".
2. FOR OPTIONAL ACCESSIBLE FLOOR-MOUNT WATER CLOSET, SEE PLUMBING SCHEDULE MARK WC/3 (NOT SHOWN ON PLAN).
3. NOT ALL ITEMS LISTED MAY OCCUR IN THIS PROJECT.
4. THERE SHOULD BE NO SHARP OR ABRASIVE UNDER LAVS OR SINKS.

PLUMBING FIXTURE SCHEDULE

NOT USED

A/1 = PLUMBING FIXTURE I.D. - SEE SCHEDULE ABOVE

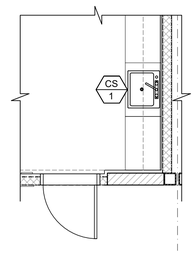
SYMBOLS LEGEND



REFER TO A1.0, A1.1 AND A2.0 FOR HOSE BIB LOCATIONS

TYPICAL HOSE BIBB

SCALE: 1/4" = 1'-0" | 5



TYPICAL CLASSROOM SINK PLAN

SCALE: 1/4" = 1'-0" | 6

PLUMBING NOTE

MODULAR MFR. TO STUB THROUGH FLOOR ALL PLUMBING LINES. BUILDING PERIMETER POC'S SHOWN ARE FOR COORDINATION PURPOSES ONLY. ALL UNDER-FLOOR CONNECTIONS ARE BY SITE CONTRACTOR, U.O.N.

1. DIMENSIONS ARE TO FACE OF FINISH (F.O.F.) UNLESS NOTED OTHERWISE (i.e. F.O.C., ℄)
2. RESTROOM CONFIGURATION MAY VARY PER BUILDING CONFIGURATION.
3. RESTROOM MODULE OCCURS ONLY AT END OF BUILDING. SINGLE RESTROOMS MAY OCCUR IN ANY PART OF A BUILDING.
4. RESTROOM MODULE CANNOT STAND ALONE AND SHALL BE ASSEMBLED TOGETHER WITH AT LEAST ONE OTHER 12'x40' MODULE.
5. INTERIOR WALLS MAY OCCUR THROUGHOUT BUILDING. REFER TO SHEET S8.1 OR S9.1 FOR ATTACHMENTS.
6. REFER TO SCHEDULE 10/P2.0 FOR ACCESSIBLE HEIGHTS AT TOILETS.
7. REFER TO DETAILS 1, 3, 4 & 5, SHEET A7.1 FOR TOILET PARTITION ANCHORAGE BLOCKING.
8. SEWER AND WATER STUB OUTS SHALL BE LOCATED WITHIN THE ALLOWABLE AREA AS SHOWN ON FLOOR PLAN AND CONNECTIONS SHALL BE EASILY ACCESSIBLE FOR FUTURE RELOCATION. STUB OUT HEIGHT SHALL BE COORDINATED BY THE MANUFACTURER.
9. PIPING MATERIAL
   a. WATER: COPPER TYPE "L", 95/5 SOLDER.
   b. WASTE DRAIN AND VENT: ABS.

GENERAL NOTES

7

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME

120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK LEONARD
No. C-29138
Ren. 3-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
BRIAN PATRICK CHUNG
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

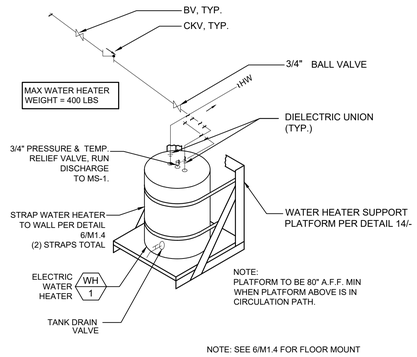
SHEET TITLE:

RESTROOM OPTION
PLUMBING PLANS
& FIXTURE SCHEDULE

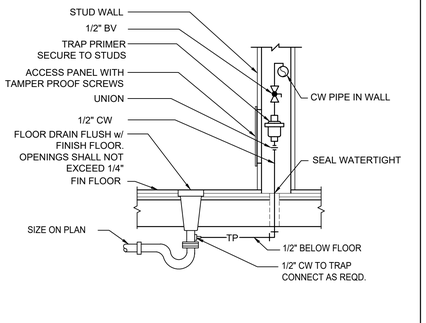
SHEET NUMBER:

P1.0

D:\AXXXX - 24xxx \# 239 x 6*. DWG - 10/14/2021 - 08 PM PLOTTED: 6/21/2022 - 10:52 AM W:\Projects\000-999\000-099\000-024 Santa Cruz City Schools Gault ES\REL\MWK\D\P0237 - 02 - 1191A - P1.0 - Gault ES - RESTRM OPTN PLN.dwg

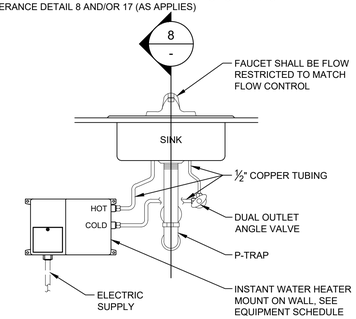


WATER HEATER SUPPORT DETAIL
SCALE : 3"=1'-0" | 1



TRAP PRIMER DETAIL
SCALE : 3"=1'-0" | 2

NOTE:
INSULATE WATER SUPPLY AND DRAIN PIPING AT ACCESSIBLE SINKS OR LAVS WITH "TRUEBRO® LAV GUARD 2" OR "TRUEBRO® SOFT GUARD PLUS" SHIELDS
IWH SHALL NOT BE LOCATED IN THE REQUIRED TOE CLEARANCE.
REFERANCE DETAIL 8 AND/OR 17 (AS APPLIES)



INSTANT WATER HEATER DETAIL
SCALE : 3"=1'-0" | 3

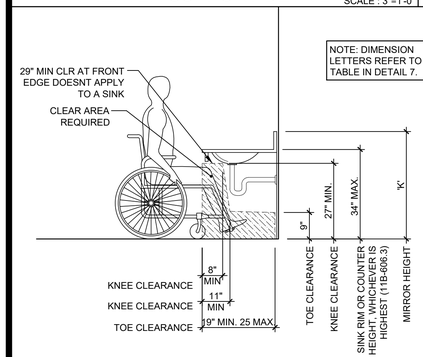
HEIGHTS FOR ACCESSIBLE FEATURES IN TOILET FACILITIES

	FIXTURE & MEASUREMENT POINT	PRIMARY USERS				NOTES
		AGES 3-4	AGES 5-8	AGES 9-12	AGES 13 -ADULT	
A	TOILET, CENTERLINE FROM FACE OF WALL	12" SUGGESTED	12" TO 15" SUGGESTED	15" TO 18" SUGGESTED	17" MIN. TO 18" MAX.	
B	TOILET, TOP OF SEAT HEIGHT	11" TO 12" SUGGESTED	12" TO 15" SUGGESTED	15" TO 17" SUGGESTED	17" MIN. TO 19" MAX.	
C	TOILET, TOP OF FLUSH CONTROLS	36" MAX.	36" MAX.	36" MAX.	44" MAX.	FLUSH CONTROLS SHALL BE LOCATED ON OPEN SIDE OF TOILET.
D	GRAB BAR, TOP OF BAR	18" TO 20" SUGGESTED	20" TO 25" SUGGESTED	25" TO 27" SUGGESTED	33" MIN. TO 36" MAX.	
E	TOILET PAPER DISPENSER, HEIGHT TO OUTLET	14" SUGGESTED	14" TO 17" SUGGESTED	17" TO 19" SUGGESTED	19" MIN.	CENTERLINE OF DISPENSER OUTLET SHALL BE BETWEEN 7" TO 9" IN FRONT OF THE TOILET. OUTLET OF DISPENSER MUST BE BELOW GRAB BAR. DISPENSER (INCLUDING FULL TOILET PAPER ROLL) MUST NOT ENCROACH INTO REQ'D GRAB BAR CLEARANCE.
F	TOILET SEAT COVER, HEIGHT TO TOP OF OUTLET	24" TO 32" SUGGESTED	30" TO 32" SUGGESTED	32" TO 36" SUGGESTED	40" MAX.	
G	URINAL, LIP HEIGHT	12" TO 13" SUGGESTED	13" TO 15" SUGGESTED	15" TO 17" SUGGESTED	17" MAX.	
H	URINAL, HEIGHT OF FLUSH HANDLE	36" MAX.	36" MAX.	36" MAX.	44" MAX.	
I	LAVATORY, HEIGHT TO HIGHEST POINT AT FRONT OF LAV. OR COUNTER	24" TO 28" SUGGESTED	31" MAX.	31" MAX.	34" MAX.	
J	LAVATORY, VERTICAL KNEE CLEARANCE		24" MIN.	24" MIN.	29"-27" OVER THE 8" DEPTH SHOWN	29" MIN TO BOTTOM FRONT EDGE OF LAV; 27" MIN @ 8" DEEP
K	MIRROR (ABOVE LAVATORY OR COUNTERTOP), LOWEST POINT OF REFLECTIVE SURFACE	24" TO 32" SUGGESTED	30" TO 32" SUGGESTED	32" TO 36" SUGGESTED	40" MAX.	MIRROR NOT LOCATED ABOVE LAVATORY OR COUNTERTOP SHALL BE MOUNTED SO THAT LOWEST EDGE OF REFLECTING SURFACE IS 35" MAX. ABOVE FINISH FLOOR.
L	DISPENSERS, DRYERS, HEIGHT TO TOP OF OUTLET, HANDLE OR OPERATING MECHANISM (WHICHEVER IS HIGHEST)	24" TO 32" SUGGESTED	30" TO 32" SUGGESTED	32" TO 36" SUGGESTED	40" MAX	ACCESSORIES SHALL COMPLY WITH 11B-307.2
M	LO DRINKING FOUNTAIN, HEIGHT TO BUBBLER	24" TO 30" * SUGGESTED	30" TO 32" * SUGGESTED	32" TO 36" SUGGESTED	36" MAX.	KNEE CLEARANCE 27" H. AT 8" DEEP IS REQ'D IF HIGHER THAN 30" A.F.F.
N	HI DRINKING FOUNTAIN, HEIGHT TO BUBBLER	same as ADULT	same as ADULT	same as ADULT	38" MIN. TO 43" MAX.	

NOTES:
1. THIS TABLE AND RELATED DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF CALIF. TITLE 24 (2019 C.B.C. SECTION 11B-601) AND IS SHOWN HERE ONLY AS AN AID FOR CONSTRUCTION AND INSTALLATION.
2. ACCESSORIES ARE NOT IN MANUFACTURER'S SCOPE OF WORK.
3. DIMENSIONS GIVEN ARE FROM FACE OF FINISH, UNLESS OTHERWISE NOTED.
4. NOT ALL ITEMS LISTED MAY OCCUR IN THE PROJECT.
5. HEIGHTS CHOSEN FOR CHILDREN'S WATER CLOSETS & ACCESSORIES D & E SHALL BE CONSISTENTLY APPLIED FOR THE AGE GROUP.

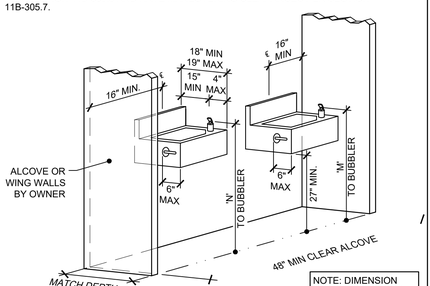
M* WHERE A D.F. FOR CHILDREN IS MOUNTED MAXIMUM 30" A.F.F., THE SPOUT SHALL BE MAXIMUM 3-1/2" FROM THE FRONT EDGE OF THE UNIT

ACCESSIBLE HEIGHTS
N.T.S. | 7



ACCESSIBLE CLASSROOM SINK
SCALE: 1/2" = 1'-0" | 4

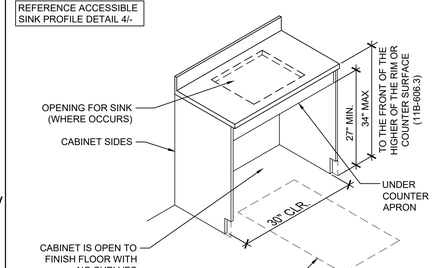
NOTE:
ALL DRINKING FOUNTAINS SHALL BE LOCATED COMPLETELY WITHIN ALCOVES, BETWEEN WING WALLS, OR OTHERWISE POSITIONED SO AS NOT TO ENCROACH INTO PEDESTRIAN WAYS (PER C.B.C. SECTION 11B-602.9), AND SHALL BE APPROACHABLE PER SECTION 11B-305.6 AND HAVE MANEUVERING CLEARANCES PER SECTION 11B-305.7.



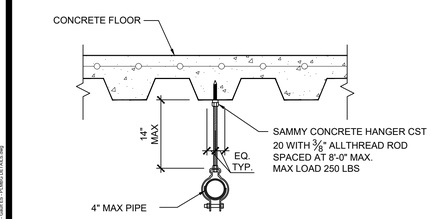
DRINKING FOUNTAIN
5

NOTES:
1. MODIFY BASE AS SHOWN FOR ADULT WHEELCHAIR ACCESS.
2. CABINET IS FOR ADULT USE ONLY.
3. ALL EXTERIOR SURFACES TO BE PLASTIC LAMINATE.
4. CABINET DOORS ARE NOT ALLOWED @ SINKS.

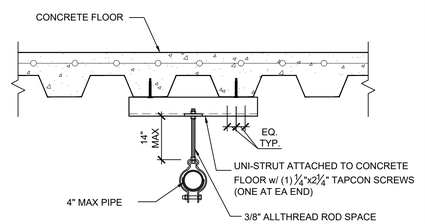
REFERENCE ACCESSIBLE SINK PROFILE DETAIL 4/-



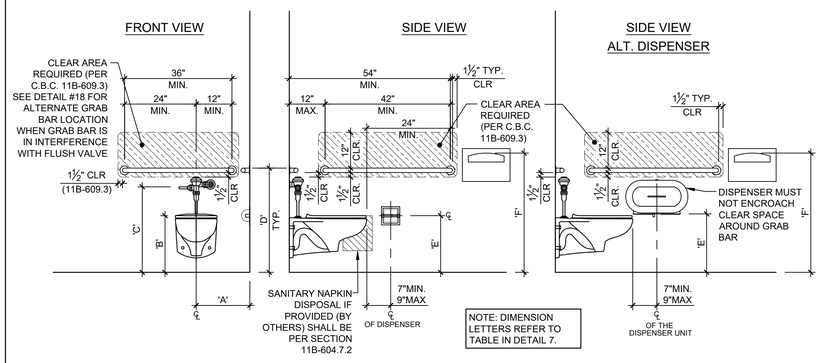
ACCESSIBLE CABINET ELEVATION
N.T.S. | 6



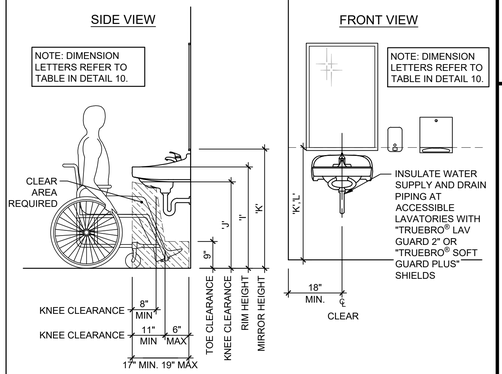
PIPE HANGING SUPPORT
N.T.S. | 8



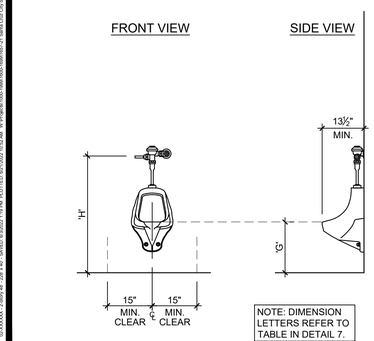
PIPE HANGING SUPPORT
N.T.S. | 9



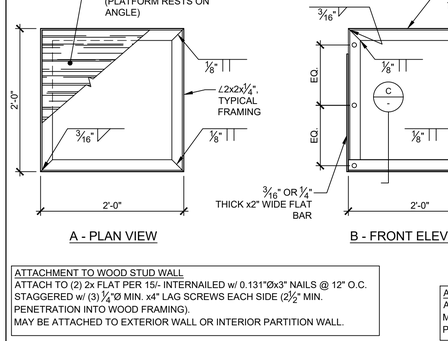
ACCESSIBLE TOILET AND ACCESSORIES
SCALE: 1/2" = 1'-0" | 11



LAVATORY & ACCESSORIES
SCALE: 1/2" = 1'-0" | 12



ACCESSIBLE URINAL
SCALE: 1/2" = 1'-0" | 13

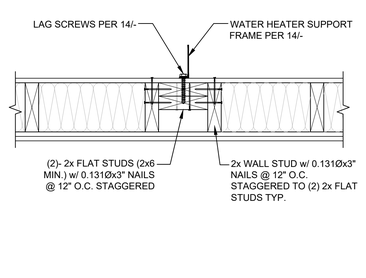


ATTACHMENT TO WOOD STUD WALL
ATTACH TO (2) 2x FLAT PER 15/- INTERNAILED w/ 0.131"Øx3" NAILS @ 12" O.C. STAGGERED w/ (3) ¼"Ø MIN. x4" LAG SCREWS EACH SIDE (2)½" MIN. PENETRATION INTO WOOD FRAMING).
MAY BE ATTACHED TO EXTERIOR WALL OR INTERIOR PARTITION WALL.

MAX WATER HEATER WEIGHT = 400 LBS

ATTACHMENT TO STEEL STUD WALL
ATTACH TO 14GA CHANNEL PER 19C/S9.1 w/ (3) #14 SDSTS EACH SIDE.
MAY BE ATTACHED TO EXTERIOR WALL OR INTERIOR PARTITION WALL.
PLATFORM NOT INTENDED TO BE INSTALLED OVER RIGID WALL INSULATION AS DETAILED.

WATER HEATER PLATFORM DETAIL
SCALE: 1" = 1'-0" | 14



(2) 2x FLAT AT WALL HUNG WATER HEATER
SCALE: 1-1/2" = 1'-0" | 15

GENERAL NOTES

1. DWV PIPING SHALL BE ABS PLASTIC
2. COLD WATER SUPPLY SHALL BE TYPE L COPPER
3. MIN SLOPE 1/4" PER FOOT MAY SLOPE 4" CI AT 1/8" PER FOOT VENTS SHALL TERMINATE NOT LESS THAN 10 FEET FROM OR AT LEAST 3 FT. ABOVE ANY WINDOW, DOOR, AIR INTAKE OR VENT SHAFT, NOR LESS THAN 3FT. IN EVERY DIRECTION FROM ANY LOT LINE; ALLEY AND STREET EXCEPTED; EXTEND 6" ABOVE THE ROOF

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME
120' x 40'
2-STORY BUILDING
FORM®

SITE SPECIFIC PROJECT NAME
SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK RICHARD WY
No. C-12631
Exp. 3-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
WILLIAM PATRICK HOWARD
No. C 12631
Ren. 3-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

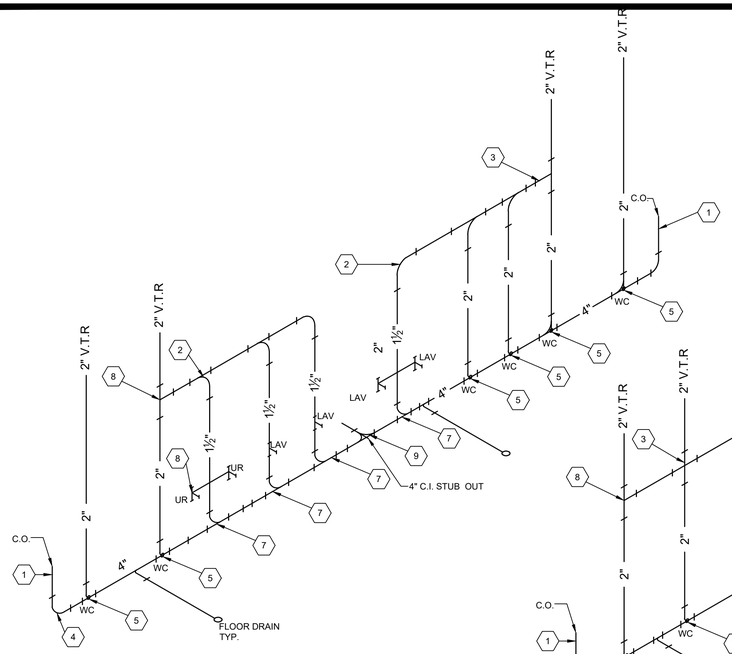
REVISIONS
1
2
3
4

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:
PLUMBING DETAILS & ACCESSIBLE DETAILS

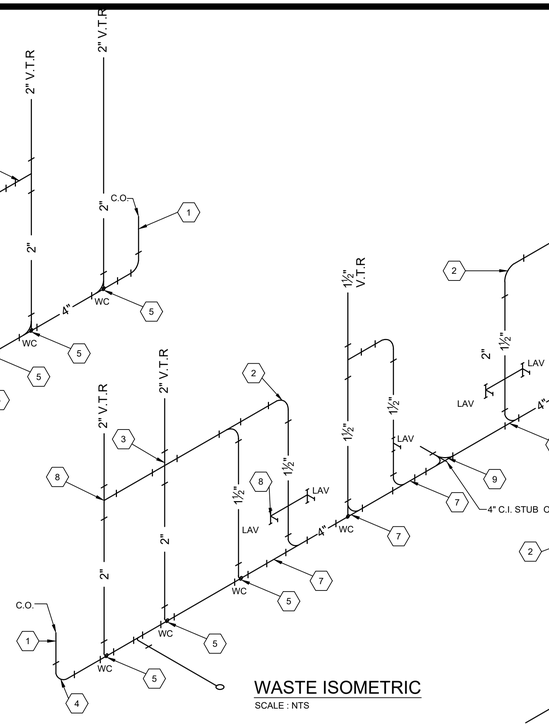
SHEET NUMBER:
P3.0

G:\XXXXX...\Sheet.dgn .pltr v.xx (LAND) 6/2022 13:18 PM PLOTTED BY 6/21/2022 13:52 AM W:\Projects\100-199\160-169\169-21 Santa Cruz City Schools Gault ELEMENTARY\WORK\P3 - 02 - 119-21 - P3.1 - Gault ES - PLMB\1657A13.dwg



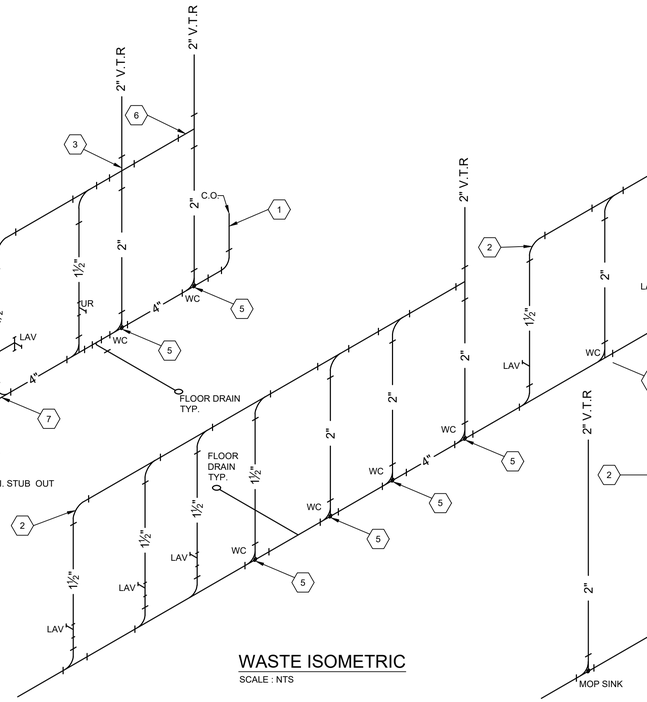
WASTE ISOMETRIC

SCALE : NTS



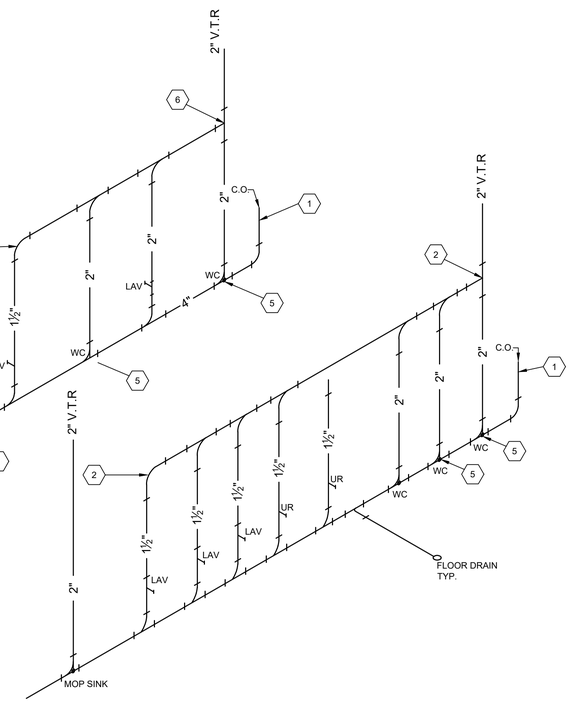
WASTE ISOMETRIC

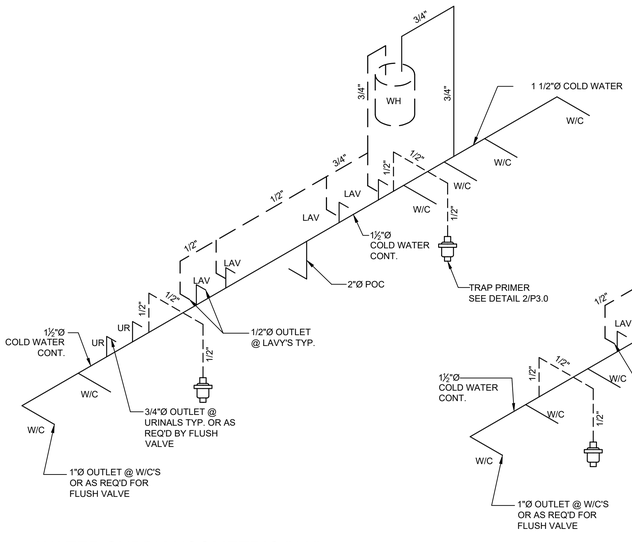
SCALE : NTS



WASTE ISOMETRIC

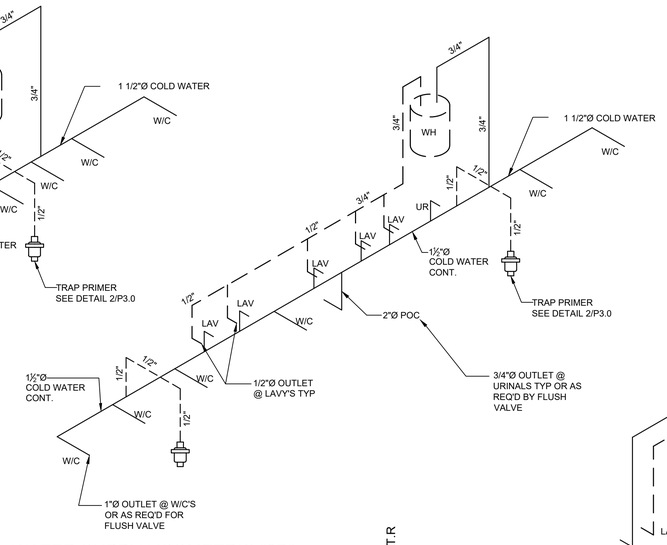
SCALE : NTS





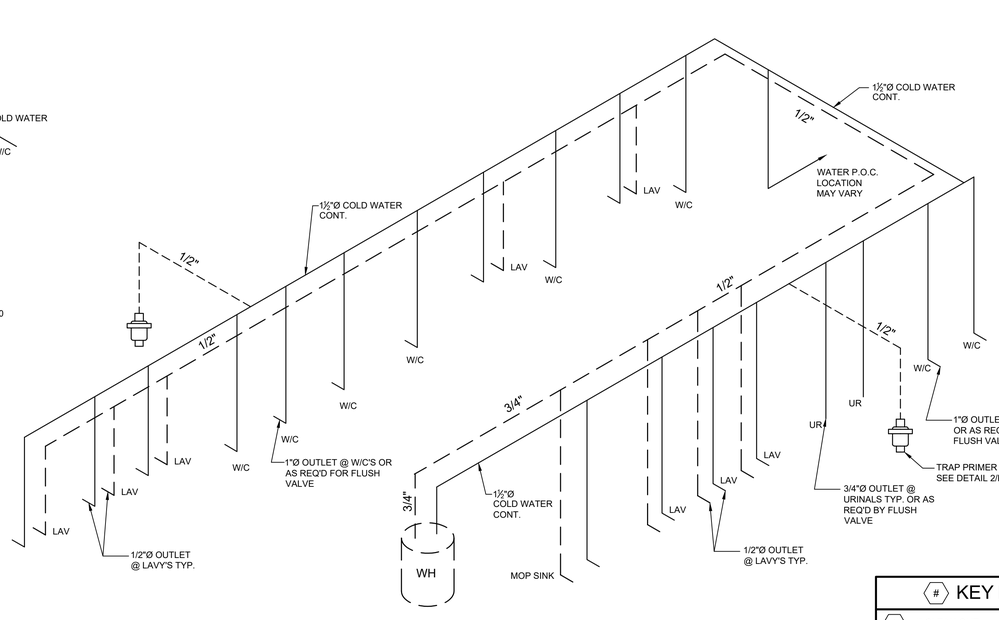
WATER SUPPLY ISOMETRIC "1A"

SCALE : NTS



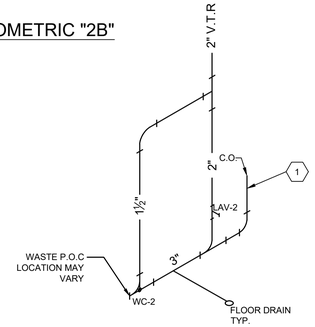
WATER SUPPLY ISOMETRIC "2B"

SCALE : NTS



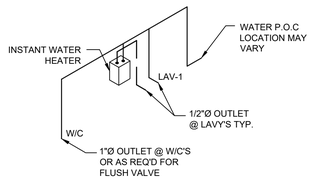
WATER SUPPLY ISOMETRIC "3C"

SCALE : NTS



WASTE ISOMETRIC

SCALE : NTS



WATER SUPPLY ISOMETRIC

SCALE : NTS

KEY NOTES

#	
1	4" CLEAN OUT
2	VENT 90
3	VENT CROSS
4	4" QUARTER BEND
5	SMITH#0600 CARRIER
6	2" SANITARY TAP TEE
7	4x4x2 COMBINATION WYE 1/8 BEND
8	2x2x1 1/2 SANITARY TEE
9	4" DOUBLE COMBINATION
10	WATER HAMMER ARRESTOR
11	1" CW STUB AT WATER CLOSETS
12	3/4" CW STUB AT URINALS
13	1/2 CW STUB AT LAVATORIES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

SET NAME

120' x 40'
2-STORY BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

SANTA CRUZ CITY SCHOOLS
GAULT
ELEMENTARY SCHOOL

LICENSED ARCHITECT
MARK EDWARD WY
ANDERS
No. C-12638
Ren. 8-31-23
STATE OF CALIFORNIA

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
BENJAMIN PATRICK CLARK
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

1	
2	
3	
4	

DRAWN BY:	WY
SCALE:	AS NOTED
DATE:	06/21/22
PROJECT NO:	1657-21

SHEET TITLE:

PLUMBING
ISOMETRICS DRAWINGS

SHEET NUMBER:

P4.0

DSXXXX 2-Story 48' 228 x 6" SAVED: 12/14/2021 1:41 PM PLOTTED: 6/21/2022 10:53 AM W:\Projects\000-099\099-099\099-014 Santa Cruz City Schools Gault ES\PRELIM\ARCH\DWGS\P4 - Gault ES - PLMBG ISOMETRICS.dwg

DSA–OVERHEAD FIRE SPRINKLER SYSTEM GENERAL NOTES

1. A COPY OF THE ORIGINAL, PREVIOUSLY APPROVED DSA UNDERGROUND PIPING PLANS OR OTHER WATER SUPPLY COMPONENTS, SUCH AS WATER TANKS, FIRE PUMPS, ETC., FOR THE PROJECT SHALL BE INCLUDED IN ALL AUTOMATIC FIRE SPRINKLER SUBMITTAL PLAN PACKAGES. ALL DEVIATIONS FROM THE PREVIOUSLY APPROVED PLANS SHALL BE JUSTIFIED AND SUBMITTED TO DSA VIA THE CCD PROCESS AS APPLICABLE. UNDERGROUND PIPING SIZE IS NOT THE RESPONSIBILITY OF DSA, AND THE ARCHITECT OF RECORD SHALL ASSUME FULL LIABILITY FOR UNDERSIZED PIPING SHOULD THE FINAL DESIGN OF THE FIRE SPRINKLER SYSTEM REQUIRE LARGER PIPING, ADDITIONAL WATER SUPPLY, FIRE PUMPS, OR OTHER EQUIPMENT OR ITEMS.
2. 2016 NFPA–13, SEC. 8.16.4.1.1: THE DESIGNER SHALL INDICATE ON THE PLANS, ALL PIPING SUBJECT TO FREEZING (WHERE WATER TEMPERATURE CANNOT BE MAINTAINED ABOVE 40–DEGREES FAHRENHEIT) AND PROVIDE APPROVED PROTECTION.
3. 2016 NFPA–13 SEC. 10.10.2.1.1: UNDERGROUND MAINS AND LEAD–IN CONNECTIONS TO SYSTEM RISERS SHALL BE COMPLETELY FLUSHED BEFORE CONNECTION IS MADE TO THE OVERHEAD SPRINKLER PIPING. WHERE UNDERGROUND PIPING IS FLUSHED AND NOT IMMEDIATELY CONNECTED TO THE OVERHEAD PIPING, THE RISER SHALL BE CAPPED OR OTHERWISE PROTECTED TO PREVENT DEBRIS, DIRT, OR ANIMALS FROM ENTERING INTO THE UNDERGROUND PIPING. (THIS MUST BE WITNESSED BY THE PROJECT INSPECTOR.)
4. PROVIDE (WET SIGNED) WATER FLOW TEST INFORMATION NO MORE THAN 12 MONTHS OLD, AND INDICATE THE LOCATIONS AND HEIGHT ELEVATION(S) OF THE TEST RESIDUAL FLOW HYDRANTS. WATER FLOW TEST INFORMATION MUST BE PROVIDED BY, OR WITNESSED BY, THE LOCAL WATER PERVAYOR, UTILITY COMPANY OR LOCAL FIRE DEPARTMENT. (2019 CFC, 508.4)
5. ARCHITECT OF RECORD (AOR), MECHANICAL ENGINEER (ME) AND FIRE PROTECTION CONTRACTOR (C–16) SHALL AFFIX THEIR SEAL, STAMP AND SIGN ALL SUBMITTALS, OR PROVIDE DOCUMENTATION PER DSA A–18.
6. 2016 NFPA–13 SEC. 6.2.9.5 AND SEC. 6.2.9.6: PROVIDE A SPARE SPRINKLER HEAD CABINET, SPRINKLER WRENCH, AND NO FEWER THAN SIX (6) SPRINKLER HEADS MATCHING THE TYPES AND TEMPERATURE RATING IN EACH PROTECTED AREA FOR SYSTEMS LESS THAN 300 SPRINKLERS (12 SPARE SPRINKLER HEADS FOR SYSTEMS OF 300 TO 1,000 SPRINKLERS.)
7. 2016 NFPA–13 SEC. 8.17.2.4.7.1: SIGNAGE SHALL BE PROVIDED AS REQUIRED.
8. 2016 NFPA–13 SEC. 9.3.6.3: THE END (LAST) SPRINKLER ON EACH LINE SHALL BE RESTRAINED AGAINST EXCESSIVE VERTICAL AND LATERAL MOVEMENT.
9. 2016 NFPA–13 FIGURE 10.10.1: A COPY OF THE COMPLETED AND SIGNED "CONTRACTOR'S MATERIAL & TEST CERTIFICATE FOR UNDERGROUND PIPING" SHALL BE INCLUDED WITH THE SUBMITTAL.
10. 2016 NFPA–13 SEC. 10.10.2.2.1: ALL PIPING AND ATTACHED APPURTENANCES SUBJECTED TO WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT 200–PSI, OR 50–PSI IN EXCESS OF SYSTEM WORKING PRESSURE, WHICHEVER IS GREATER, AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR 2 HOURS. (TEST TO BE WITNESSED BY PROJECT INSPECTOR.)
11. 2016 NFPA–13 FIGURE 25.1: SPRINKLER CONTRACTOR SHALL COMPLETE AND SIGN THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR THE ABOVE GROUND PIPING. THIS FORM SHALL BE GIVEN TO THE PROJECT INSPECTOR WHO WILL FORWARD IT TO DSA FOR FILING IN PROJECT RECORDS.
12. 2016 NFPA–13 SEC. 25.5.1: A PERMANENT HYDRAULIC CALCULATION DESIGN INFORMATION PLACARD SHALL BE ATTACHED TO EACH RISER.
13. 2016 NFPA–13 SEC. 25.6: A GENERAL INFORMATION SIGN SHALL BE ATTACHED TO EACH RISER.
14. 2016 NFPA–13 SEC. 25.2.3.1: THE SPRINKLER FLOW SWITCH SHALL BE TESTED TO CONFIRM THAT WHEN THE INSPECTOR'S TEST VALVE IS OPENED, AN ALARM WILL SOUND NO MORE THAN 90–SECONDS AFTER THE INITIAL FLOW. (TEST TO BE WITNESSED BY THE PROJECT INSPECTOR.)
15. 2019 CBC, SEC. 903.4.1: THE MAIN FIRE ALARM PANEL VALVE MONITORING, WATER–FLOW AND TROUBLE SIGNALS SHALL BE DISTINCTLY DIFFERENT, AND SHALL AUTOMATICALLY BE TRANSMITTED TO AN APPROVED CENTRAL STATION MONITORING COMPANY.
16. 2016 NFPA–13 SEC. 6.9.1: AND 2019 CBC, 903.4.2: THE FLOW SWITCH SHALL BE CONNECTED TO AN APPROVED EXTERIOR ALARM BELL OR OTHER AUDIBLE ALARM DEVICE (SIZE NOT MANDATED BY CODE) AT EACH RISER. APPROVED IDENTIFICATION SIGNS STATING "SPRINKLER FIRE ALARM–WHEN ALARM SOUNDS CALL 911/FIRE DEPARTMENT" SHALL BE INSTALLED ON THE EXTERIOR ALARM BELL.
17. 2019 CBC, SEC. 904.4.3: CONNECTIONS TO PROTECTED PREMISES AND SUPERVISING STATION FIRE ALARM SYSTEMS SHALL BE TESTED TO VERIFY PROPER IDENTIFICATION AND TRANSMISSION OF ALARM SIGNALS FROM AUTOMATIC FIRE EXTINGUISHING SYSTEMS. (TEST TO WITNESSED BY PROJECT INSPECTOR.)
18. 2019 CBC, 903.4.2 AND 2016 NFPA–13 SEC. 8.17.4.2.1 THRU SEC. 8.17.4.2.4: THE INSPECTOR'S TEST VALVE LOCATION SHALL BE INSTALLED DOWNSTREAM OF THE ALARM DEVICE (WATERFLOW SWITCH). THE PIPE SIZE SHALL BE NO LESS THAN 1–INCH, WITH A SMOOTH BORE, CORROSION RESISTANT ORIFICE, PROVIDING EQUIVALENT FLOW OF THE SMALLEST ORIFICE OF THE SPRINKLER TYPES INSTALLED ON THE SYSTEM. THE DISCHARGE SHALL BE TO THE EXTERIOR OF THE BUILDING.
19. CCR TITLE–24 (PUBLIC SAFETY), ARTICLE 906 (A): A LABEL OF THE SELF–ADHESIVE TYPE SHALL BE PLACED ON THE FIRE DEPARTMENT CONNECTION (FDC) OR ON THE RISER FOR THE FIRE SPRINKLER SYSTEM, INDICATING THE DATE OF THE INSTALLATION AND/OR THE DATE SERVICE WAS PERFORMED, AND THE LICENSE NUMBER OF THE PERSON PERFORMING THE SERVICE WORK.

GENERAL NOTES

1. THIS PLAN DETAILS THE FIRE SPRINKLER SYSTEM FOR:

   GAULT ES 2–STORY
   1320 SEABRIGHT AVE
   SANTA CRUZ, CA

2. BUILDING CONSTRUCTION TYPE: VB
3. BUILDING OCCUPANCY: E (A IN MPR)

BUILDING AREA: 1ST FLOOR 5,760 sq. ft. INCLUDING OVERHANG
2ND FLOOR 5,760 sq. ft. INCLUDING OVERHANG = TOTAL 11,520 sq.ft.

4. ALL DESIGN AND INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13––2016 EDITION.
5. SYSTEM IS DESIGNED FOR LIGHT HAZARD OCCUPANCY @0.10 GPM/SQ.FT. OVER THE HYDRAULICALLY MOST REMOTE AREA + 100 GPM OUTSIDE HOSE STREAM ALLOWANCE. (AREA REDUCED PER NFPA–13, WITH USE OF QUICK RESPONSE HEADS.) BELOW CEILING SPRINKLERS ARE @ MAXIMUM 225 SQ.FT. SPACING. ATTIC SPRINKLERS ARE AT MAX. 168 SQ.FT. SPACING.
6. MAIN FITTING NOTES:
   A. ALL SPRINKLER MAIN PIPING 2½" TO BE SCH.10 PER NFPA–13
   B. ALL MAIN OUTLETS TO BE UL LISTED (GROOVED AND OR FEMALE THREADED FOR MECH. TEES)
   C. WELDING TO BE PERFORMED I.A.W. NFPA–13, IF REQUIRED.
   D. ALL MAIN FITTINGS TO BE ROLL–GROOVED.
   E. ALL MAIN COUPLINGS TO BE ROLL–GROOVED, NON–FLEXIBLE, UNO.
7. BRANCH LINE FITTING NOTES:
   A. BRANCH LINE PIPING (THREADED) 1"–2" TO BE THREADED SCH–30 OR 40 PER NFPA–13, WITH STANDARD WEIGHT (125 LB.) SCREWED CAST OR DUCTILE IRON FITTINGS.
8. CLEARANCE SHALL BE PROVIDED AROUND ALL PIPING EXTENDING THROUGH WALLS AND FLOORS. HOLES SHALL BE 2" LARGER THAN THE DIAMETER FOR 1" TO 3" AND 4" LARGER THAN THE DIAMETER FOR PIPES 4" AND LARGER.
9. ALL FIRE SPRINKLER SYSTEM EQUIPMENT TO BE UNDERWRITER LABORATORY (UL) LISTED AND CONSISTENT WITH NFPA–13.
10. ALL PIPE HANGERS TO BE IN ACCORDANCE WITH NFPA–13 AND DWG.–DETAILS.
11. ALL SWAY (EARTHQUAKE) BRACING SIZE, LOCATION, SPACING, AND CONNECTIONS TO BE IN ACCORDANCE WITH NFPA–13, SEE DETAIL AND ZONE OF INFLUENCE CALCULATIONS FOR INFORMATION ON SPACING, BRACE TYPE, AND ATTACHMENT METHOD.
12. ALL ARM–OVERS TO BE 1" X 0–4" UNLESS NOTED OTHERWISE.
13. ON THE END HANGER, ATR SHALL BE TIGHTENED DOWN AGAINST THE TOP OF PIPE TO PREVENT MOVEMENT.
14. SPRINKLERS SHOWN IN ACOUSTICAL CEILINGS TILES ARE NOT NECESSARILY IN CENTER OF TILE.
15. ALL ELECTRICAL WIRING AND MONITORING OF ALARMS AND/OR SUPERVISORY SWITCHES ASSOCIATED WITH THE FIRE SPRINKLER SYSTEM TO BE PERFORMED BY OTHERS, PRIOR TO FINAL INSPECTION.
16. UPON COMPLETION OF THE INSTALLATION A 200 PSI HYDRO TEST FOR 2–HRS WILL BE PROVIDED FOR INSPECTION.
17. UNDERGROUND PIPING SHALL BE FLUSHED PER NFPA–13, PRIOR TO CONNECTION TO SPRINKLER SYSTEMS.
18. D & B FIRE EXTENT OF WORK TO BE AT BASE OF RISER––(SEE RISER DETAIL)
19. A SPARE HEAD BOX WITH HEADS AND WRENCH SHALL BE PROVIDED AT EACH RISER.
20. UPON COMPLETION, THE FOLLOWING SHALL BE PROVIDED TO OWNER: COMPLETED CONTRACTORS MATERIAL & TEST CERTIFICATE: COPY OF NFPA–25.
21. DEVIATIONS FROM APPROVED PLANS SHALL REQUIRE PERMISSION OF THE AUTHORITY HAVING JURISDICTION (NFPA–13–2016 EDITION, SECTION 23.1.2)

SEE SHEET FS–2 FOR ZONE OF INFLUENCE OUTLINE

PIPE SCH.	PIPE SIZE, LENGTH, QUANTITY, LBS./FT.	WEIGHT OF WATER FILLED PIPE	COMBINED WEIGHT OF ALL PIPE IN ZONE (Wp)	Cp VALUE	ADJUSTED ASSIGNED LOAD
10	2½" (5.89) X 48'	283 LBS.	283 LBS.	(1.14)	323 LBS.
	LONGITUDINAL BRACE		PERCENTAGE(15) FOR FITTINGS AND DEVICES:		48 LBS.
				TOTAL LOAD:	371 LBS. (Fp)

EARTHQUAKE BRACE CALCULATIONS

(Ss) VALUE 2.44

ZONE OF INFLUENCE CALCULATIONS (PER 2016 NFPA 13–TABLE 9.3.5.9.3)

LATERAL BRACE

PIPE SCH.	PIPE SIZE, LENGTH, QUANTITY, LBS./FT.	WEIGHT OF WATER FILLED PIPE	COMBINED WEIGHT OF ALL PIPE IN ZONE (Wp)	Cp VALUE	ADJUSTED ASSIGNED LOAD
10	2½" (5.89) X 24'	141 LBS.			
40	1¼" (2.93) X 15'	44 LBS.			
40	1" (2.05) X 54'	111 LBS.	296 LBS.	(1.14)	337 LBS.
			PERCENTAGE(15) FOR FITTINGS AND DEVICES:		51 LBS.
				TOTAL LOAD:	388 LBS. (Fp)

EARTHQUAKE BRACE CALCULATIONS

ASSIGNED LOAD: ADJUSTED (SEE ZONE OF INFLUENCE CALCULATIONS ABOVE)

SPRINKLER MAIN SIZE	MAX. BRACE SPACING	ADJUSTED ASSIGNED LOAD
2½"	24' LAT. – 48' LONG.	388 LBS. (Fp)

BRACE SPACING: TABLE 9.3.5.11.8(B)

BRACE PIPE SIZE	MAX LENGTH	MAX BRACE ANGLE	MAX HORIZ. LOAD
1"	7'–0"	59° FROM VERT.	1310 LBS.

FASTENER SIZE: TABLE 9.3.5.12.1 ← PER STEEL CONN. & ANGLE OF BRACE

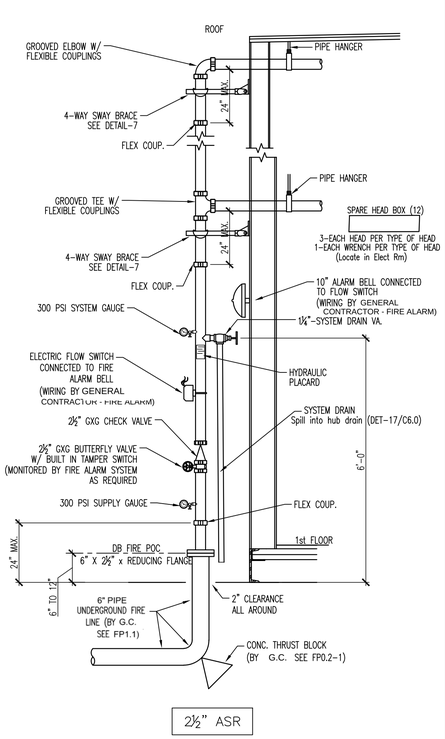
FASTENER SIZE/TYPE	BRACE ANGLE (DIAGRAM)	MAX ASSIGNED LOAD
½"X 1½" HEX BOLT	45°–59° FROM VERT.(FIG.E)(STEEL CONN.)	2050 LBS.

SEISMIC BRACE ATTACHMENT

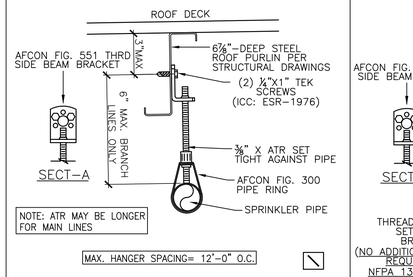
STRUCTURAL ATTACHMENT FITTING BRACING SYSTEM
MAKE: AFCON MODEL: 077
LISTED LOAD RATING: 2015 ADJUSTED LOAD RATING PER 9.3.5.11.8: 1612 (.8)
SWAY BRACE (PIPE ATTACHMENT) FITTING:
MAKE: AFCON MODEL: 001/020
LISTED LOAD RATING: 800 ADJUSTED LOAD RATING PER 9.3.5.11.8: 640 (.8)

HANGER/RESTRAINT NOTE

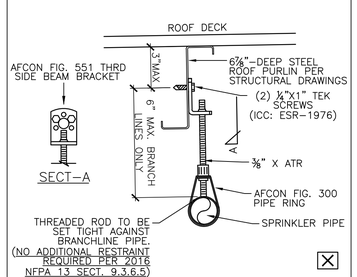
** RESTRAINT IS NOT REQUIRED ON PIPES LESS THAN 2½" INDIVIDUALLY SUPPORTED BY RODS LESS THAN 6" LONG, PER 2016 NFPA–13, SECT–9.3.6.5
** THE END OF LINE RESTRAINT DETAIL #2 ON THIS PLAN WILL RESTRAIN END SPRINKLER AGAINST EXCESSIVE VERTICAL MOVEMENT, AND LATERAL MOVEMENT IS LIMITED BY THE SHORT RODS (6" OR LESS) WHICH MEET THE ABOVE EXCEPTION FOR RESTRAINT. NO ADDITIONAL BRACING OR SPLAY WIRE IS REQUIRED ON BRANCH LINES.



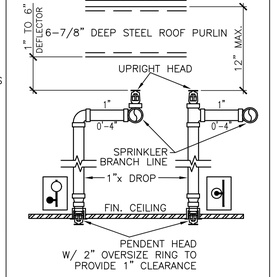
2½" ASR



TYPICAL MAIN/BRANCH LINE HANGER | DETAIL–1



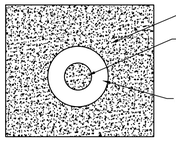
END OF LINE HANGER/RESTRAINT | DETAIL–2



UP & DOWN HEADS | DETAIL–3

UP & OVER DOWN HEADS (ALT.) | DETAIL–3a

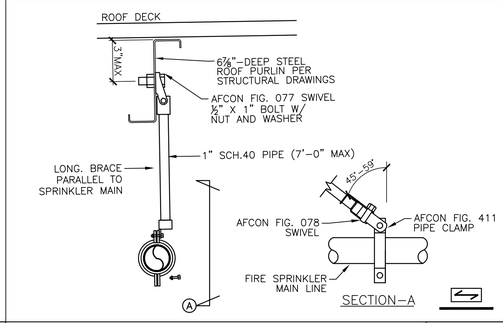
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022



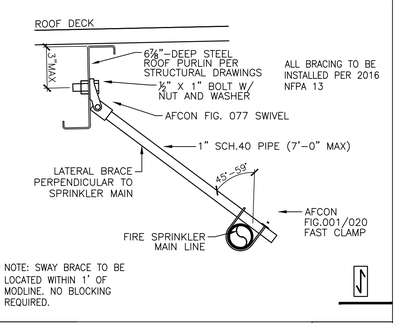
PIPE PENETRATION CLEARANCE

1" PIPE = 3" HOLE
1¼" PIPE = 3¼" HOLE
2½" PIPE = 4½" HOLE

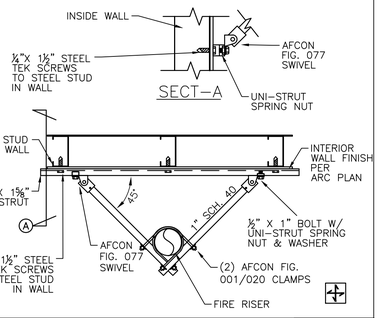
WALL PENETRATION DETAIL | DETAIL–4



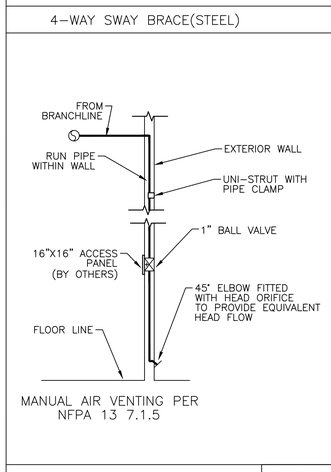
LONGITUDINAL SWAY BRACE | DETAIL–5



LATERAL SWAY BRACE | DETAIL–6

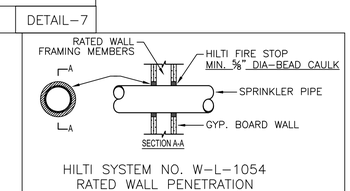


4–WAY SWAY BRACE(STEEL) | DETAIL–7



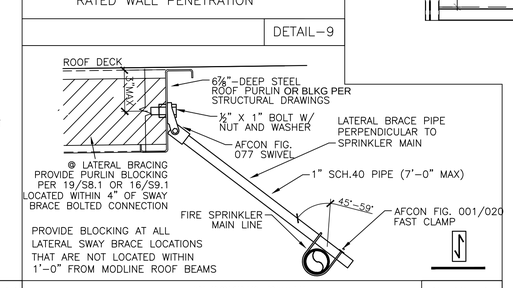
MANUAL AIR VENTING PER NFPA 13 7.1.5

IN–WALL INSPECTORS TEST DETAIL | DETAIL–11

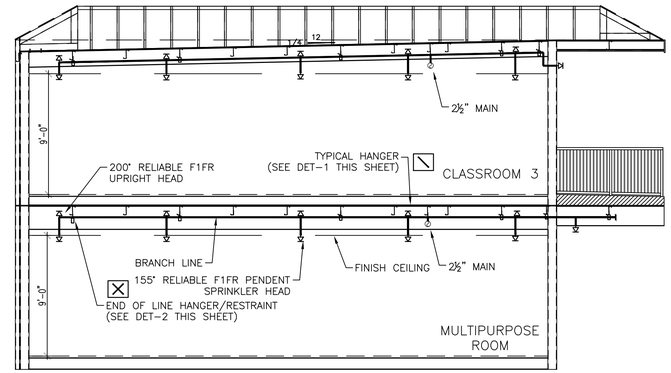


HILTI SYSTEM NO. W–L–1054
RATED WALL PENETRATION

DETAIL–9



BLOCKING DETAIL | DETAIL–13



BUILDING CROSS SECTION - A

SCALE: 3/16" = 1'–0"

TABLE 8.6.2.2.1(a) Sprinkler Head Protection area & spacing for Light Hazard			
CONSTRUCTION TYPE:	SYSTEM TYPE:	MAXIMUM PROTECTION AREA	MAXIMUM SPACING
NON–COMBUSTIBLE UNOBSTRUCTED	HYDRO CALC'D	225sq.ft.	15 ft.
COMBUSTIBLE UNOBSTRUCTED	HYDRO CALC'D	168sq.ft.	15 ft.

LICENSED ARCHITECT MARK RICHARD CAIN 18295 REGISTERED 08-31-23 STATE OF CALIFORNIA

WATER FLOW INFO.	
STATIC:	86 PSI
RESIDUAL:	76 PSI
FLOW:	1,061 GPM
INFORMATION FROM:	
CITY OF SANTA CRUZ WATER DATED: 10–1–2021	

◯	HYDRAULIC CALC. REFERENCE POINT
✛	4–WAY SWAY BRACE
▭	LONG./LAT. SWAY BRACE
◕	FIRE RISER
\	TYP. HANGER
✕	END OF LINE HANGER/RESTRAINT

HANGER LEGEND

UNDERGROUND FIRE MAIN	
▬	NEW UNDERGROUND PIPING
═	EXISTING UNDERGROUND PIPING
⊸	POST INDICATOR VALVE (PIV)
⊗	KEY VALVE
	FIRE DEPARTMENT CONNECTION (FDC)
	FIRE HYDRANT

AUTHORITY HAVING JURISDICTION		
#	DATE:	BY: REVISIONS:

LICENSED FIRE SPRINKLER CONTRACTOR FIRE PROTECTION SYSTEMS Class C-16 License # 410294 Expires 8-2023 STATE OF CALIFORNIA

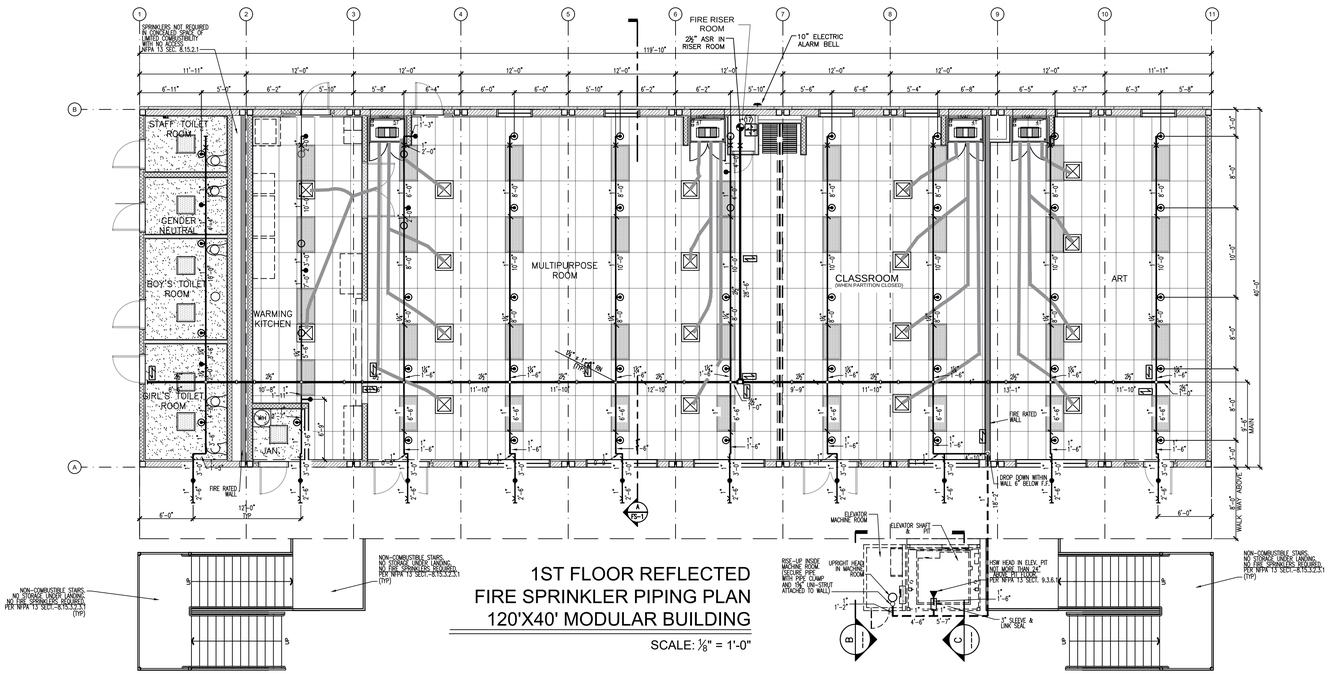
AMS
American Modular Systems, Inc.
787 Spreckels Ave. Manteca, CA 95336
Phone (209) 825-1921 - Fax (209) 825-7018
americanmodular.com

FIRE PROTECTION, INC.
1623 LEESON LANE CORONA, CALIFORNIA 92879
(951) 737–9965 FAX (951) 737–6860 LICENSE NO C16–410294

TITLE: FIRE SPRINKLER COVER SHEET:
GAULT E.S. 2–STORY
1320 SEABRIGHT AVENUE
SANTA CRUZ, CA,

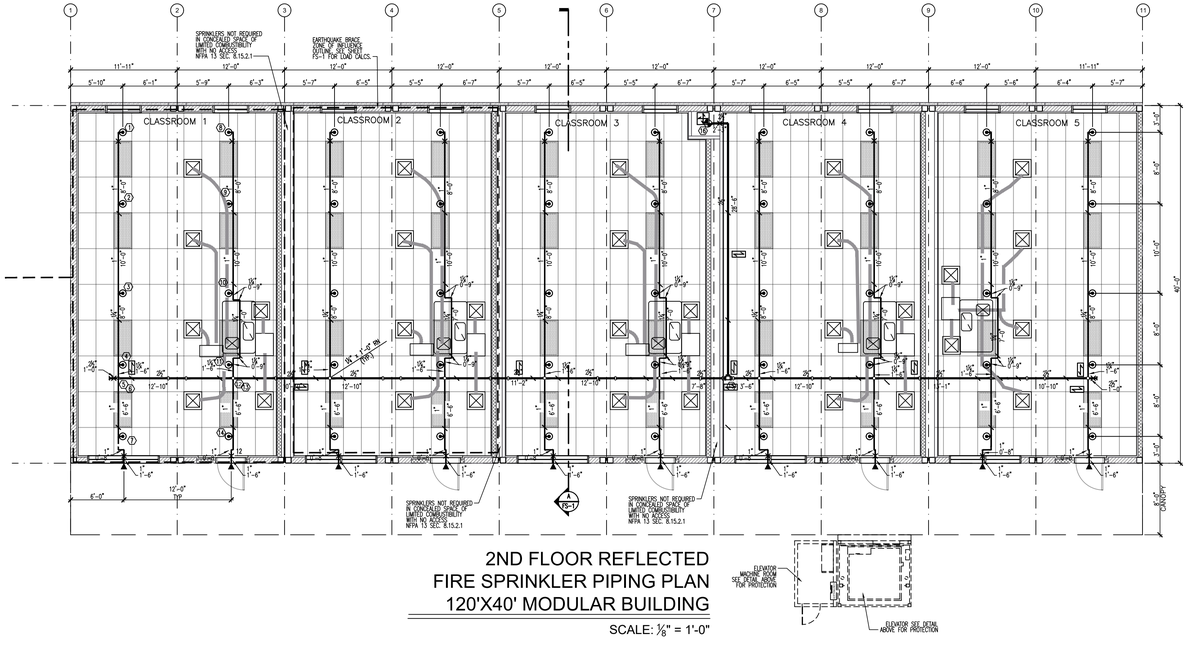
JOB NO.:	
SCALE:	AS NOTED
DRAWN BY:	AR/PM
DATE:	11/2021
SHEET NO.:	FS–1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022



1ST FLOOR REFLECTED FIRE SPRINKLER PIPING PLAN 120'X40' MODULAR BUILDING

SCALE: ⅛" = 1'-0"



2ND FLOOR REFLECTED FIRE SPRINKLER PIPING PLAN 120'X40' MODULAR BUILDING

SCALE: ⅛" = 1'-0"

HYDRAULIC SYSTEM

THIS BUILDING IS PROTECTED BY A HYDRAULICALLY DESIGNED AUTOMATIC SPRINKLER SYSTEM

LOCATION	SEE PLAN

SPRINKLER INFORMATION

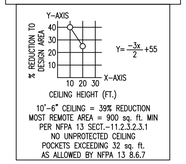
NUMBER OF FLOWING SPRINKLERS	10
MANUFACTURER	RELIABLE
MODEL	F1FR
155°	QUICK RESPONSE
1/2" ORIFICE	5.6 K-FACTOR

BASIS OF DESIGN

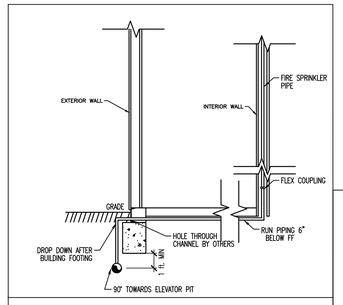
STANDARD	NFPA 13, 2016 EDITION
HAZARD GROUP	LIGHT HAZARD GROUP
DENSITY	.10 GPM/SQ.FT.
DESIGN AREA OF DISCHARGE	960 SQ.FT.

SYSTEM DEMAND

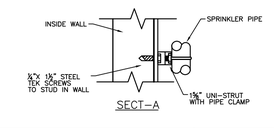
GPM DEMAND AT THE BASE OF THE RISER	183.7 GPM
RESIDUAL PRESSURE AT THE BASE OF THE RISER	44.7 PSI
GPM DEMAND AT THE WATER SUPPLY SOURCE	283.7 GPM
RESIDUAL PRESSURE AT THE WATER SUPPLY SOURCE	50.0 PSI
HOSE STREAM ALLOWANCE	0 GPM INSIDE 100 GPM OUTSIDE 100 GPM TOTAL
REMOTE SPRINKLER FLOW	15.0 GPM @ 8.0 PSI



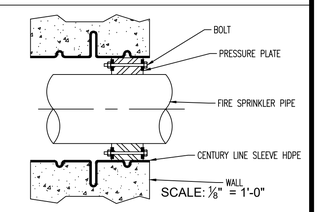
10'-4" CEILING = 39% REDUCTION
MOST REMOTE AREA = 900 sq. ft. MIN
PER NFPA 13 SECT.-11.2.3.2.3.1
NO UNPROTECTED CEILING
POCKETS EXCEEDING 32 sq. ft.
AS ALLOWED BY NFPA 13 8.6.7



UNDERGROUND PIPE FROM FS SYSTEM

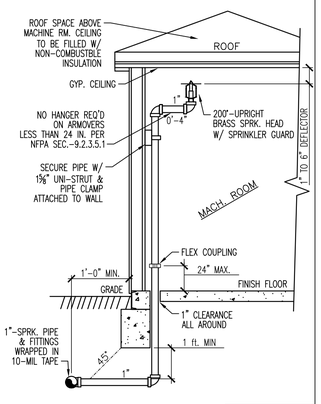


UNISTRUT PIPE ATTACHMENT

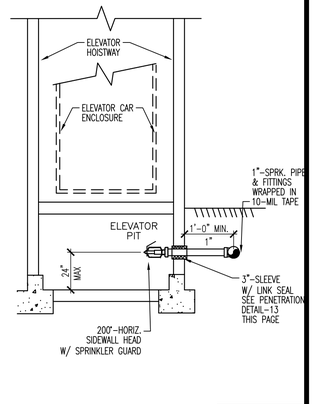


LINK SEAL MODEL NO. LS300-S-4
CENTURY LINE SLEEVE MODEL NO CS-10-20-1

ELEVATOR PIT LINK SEAL | DETAIL-13



MACHINE ROOM | SECTION-B



WATER FLOW INFO.	
STATIC:	86 PSI
RESIDUAL:	76 PSI
FLOW:	1,061 GPM
INFORMATION FROM:	
CITY OF SANTA CRUZ WATER	
DATED: 10-1-2021	

- HYDRAULIC CALC. REFERENCE POINT
- 4-WAY SWAY BRACE
- LONG./LAT. SWAY BRACE
- FIRE RISER
- TYP. HANGER
- END OF LINE HANGER/RESTRAINT

HANGER LEGEND

- NEW UNDERGROUND PIPING
- EXISTING UNDERGROUND PIPING
- POST INDICATOR VALVE (PIV)
- KEY VALVE
- FIRE DEPARTMENT CONNECTION (FDC)
- FIRE HYDRANT

UNDERGROUND FIRE MAIN

FIRE SPRINKLER HEAD LEGEND

SYM.	MAKE AND MODEL	K-FAC	SIZE	TEMP	TYPE	FINISH	CANOPY	QTY.
○	RELIABLE F1FR	5.6	½"	200°	UPRIGHT	BRASS	N/A	102
●	RELIABLE F1FR	5.6	½"	155°	PENDENT	CHROME	CHR. RECESSED	109
◄	RELIABLE F1FR	5.6	½"	155°	HSW	BRASS	401 CANOPY	10
⊙	DENOTES UP OVER DOWN HEAD SYMBOL							
							TOTAL SPRINKLER HEADS THIS SHEET	221

AUTHORITY HAVING JURISDICTION

#	DATE:	BY:	REVISIONS:
1			
2			
3			
4			
5			

LICENSED FIRE SPRINKLER CONTRACTOR
Class C-16
License # 410294
License C-16
8-2023
STATE OF CALIFORNIA

LICENSED ARCHITECT
MARK PM
RICHARDS
C-31138
STATE OF CALIFORNIA

AMS
American Modular Systems, Inc.
787 Spreckels Ave. Manteca, CA 95336
Phone (209) 825-1921 - Fax (209) 825-7018
americanmodular.com

FIRE PROTECTION, INC.
1623 LEESON LANE CORONA, CALIFORNIA 92879
(951) 737-9965 FAX (951) 737-6860 LICENSE NO C16-410294

TITLE: FIRE SPRINKLER LAYOUT/PIPING PLAN: 2-STORY
GAULT E.S. 2-STORY
1320 SEABRIGHT AVENUE
SANTA CRUZ, CA

JOB NO.:	
SCALE:	AS NOTED
DRAWN BY:	AR/PM
DATE:	11/2021
SHEET NO.:	FS-2

MODULAR ELEVATOR

DSA PROCEDURE 07-01

DESCRIPTION	DESIGN VALUES
DEAD & LIVE LOADS	
ALLOWABLE SOIL PRESSURE	
DD+LL (CONCRETE FOOTING)	SEE TABLE 1/S3
DD+LL+SEISMIC (CONCRETE FOOTING)	SEE TABLE 1/S3
ROOF SNOW LOAD	
ROOF SNOW LOAD: SEE TABLE 6 NOTE ON S4	45 PSF
WIND DESIGN	
TOPOGRAPHIC FACTOR, K_{ZT} (1 MIN)	1.0
[X] DIRECTIONAL PROCEDURE ASCE 7-16 CHAPTER 27 PART 1	FOR MWFRS
EXPOSURE CATEGORY COEFFICIENT, K_Z	1.07 AT 60 FT

TABLE 1

SITE SPECIFIC ITEM	PC DESIGN LOAD OR DESIGN PARAMETERS		SITE SPECIFIC LOAD (TO BE FILLED IN BY ARCHITECT / ENGINEER)
EMBELLISHMENT WEIGHT	FIRST LEVEL	600#	N/A
	INTERMEDIATE	600#	N/A
	TOP	600#	N/A
	ROOF	1200#	N/A

SIGNATURE OF SITE APPLICATION ARCHITECT OR ENGINEER

NOT PART OF PRE-CHECK DOCUMENTS:

1. FIRE ALARM SYSTEM (SMOKE AND/OR HEAT DETECTORS).
2. FIRE SPRINKLERS
3. MECHANICAL & ELECTRICAL PLANS
4. EXTERIOR, FINAL FINISHED & TRIM
5. GUTTERS AND/OR DOWNSPOUTS
6. ROOF EMBELLISHMENTS

STRUCTURAL SHEET INDEX:

SHEET S1 COVER SHEET
SHEET S1A TESTING & INSPECTION CRITERIA
SHEET S1B TESTING & INSPECTION CRITERIA
SHEET S2 GENERAL NOTES & ABBREVIATIONS

SHEET S3 FOUNDATION PIT PLAN

SHEET S3.1 FOUNDATION DETAILS FOR MAX 44'-0" TOWER HEIGHT

SHEET S4 HOISTWAY ROOF PLAN
SHEET S4.1 HOISTWAY & ROOF DETAILS

SHEET S5-1 HOISTWAY PLAN & ELEVATIONS- MAX 44'-0" TOWER HEIGHT
SHEET S5-2 HOISTWAY PLAN & ELEVATIONS- MAX 44'-0" TOWER HEIGHT
SHEET S5-3 HOISTWAY PLAN & ELEVATIONS- MAX 44'-0" TOWER HEIGHT

SHEET S5.1 HOISTWAY DETAILS
SHEET S5.2 MISCELLANEOUS DETAILS
SHEET S5.3 HOISTWAY WALL PANELS

SHEET S6 MACHINE ROOM FRAMING PLAN & DETAILS (PARTIAL MACHINE ROOM)
SHEET S6A MACHINE ROOM FRAMING PLAN & DETAILS

SHEET S7 RAIL & POWER UNIT DETAILS

SHEET VT1 ELEVATOR DATA
SHEET VT2 ELEVATOR LAYOUT (PARTIAL MACHINE ROOM)
SHEET VT2A ELEVATOR LAYOUT
SHEET VT3 ELEVATOR CAB
SHEET VT4 ACCESS COMPLIANCE

NUMBER OR LETTER IDENTIFYING PLAN, SECTION, ELEVATION OR DETAIL

OR #/-

SHEET NUMBER WHERE PLAN, SECTION, ELEVATION OR DETAIL IS LOCATED. A DASH INDICATES THAT THE PLAN, SECTION, ELEVATION OR DETAIL OCCURS ON THE SAME SHEET FROM WHICH IT IS BEING REFERENCED.

APPLICABLE CODES:

PARTIAL LIST OF APPLICABLE CODES AS OF January 1, 2020

2019 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.

2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
(2018 INTERNATIONAL BUILDING CODE VOLUMES 1 – 3 AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
(2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS)

2004 CALIFORNIA BUILDING CODE TITLE 8

2019 CALIFORNIA BUILDING CODE CBC CHAPTER 11B
(2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.
(2018 UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
(2018 UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.

2013 SAFETY CODE FOR ELEVATORS AND ESCALATORS (ASME A17.1-2004)

2018 INTERNATIONAL FIRE CODE

2019 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
(2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.

TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

TITLE 8 C.C.R., CH4, SUB-CH6-ELEVATOR SAFETY ORDERS

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS	2016 Edition with 2019 California Amendments
NFPA 14	STANDPIPE SYSTEMS (CALIFORNIA AMENDED)	2016 Edition with 2019 California Amendments
NFPA 17a	WET CHEMICAL SYSTEMS	2017 Edition
NFPA 20	STATIONARY PUMPS	2016 Edition
NFPA 24	PRIVATE FIRE MAINS (CALIFORNIA AMENDED)	2016 Edition with 2019 California Amendments
NFPA 72	NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED)	2016 Edition with 2019 California Amendments
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015 Edition
ASME 17.1/CSAB44	ELEVATOR STANDARD	2004 Edition with A17.1 a/CSA B44a-08 addenda

REFERENCE CODE SECTIONS FOR NFPA STANDARDS – 2019 CBC CHAPTER 35. SEE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

NOTES TO PLAN REVIEWER AND DESIGN PROFESSIONAL:

1. All DRAWING ARE TO BE SUBMITTED WITH THE FOLLOWING EXCEPTIONS:
   A. SUBMIT S5-1, S5-2 OR S5-3 BASED ON SITE SPECIFIC TOWER HEIGHT.
2. WHERE OPTIONS ARE NOTED, DESIGN PROFESSIONAL SHALL INDICATE OPTION CHOSEN. WHERE APPROVED BY DSA. AND IN A TWO-STORY BUILDING OR STRUCTURE WITH STAIRS THAT WILL ACCOMMODATE THE CARRYING OF A GURNEY. ELEVATORS ARE NOT REQUIRED TO ACCOMMODATE A GURNEY AS ACCEPTED BY THE AHJ.
3. PC IS NOT APPROVED FOR STOCKPILE AND FLOOD ZONE, DETAILS THAT ARE NOT APPLICABLE TO SPECIFIC PROJECT ARE TO BE CROSSED OUT.
4. SPRINKLER REQUIREMENTS TO BE INCLUDED AS PART OF THE SITE APPLICATION DRAWINGS.
5. ELEVATOR CANNOT BE SET WITHOUT SITE SPECIFIC EDITS. ALSO, THESE SITE SPECIFIC EDITS MUST INCLUDE THE FOLLOWING:
   - SEISMIC JOINT BETWEEN BUILDING & ELEVATOR TOWER. SEE TOWER DISPLACEMENTS ON SHEETS S5-1, S5-2 OR S5-3.
   - SPECIFICATIONS AND DETAILS FOR ROOFING
   - FINISHES (SEE NOTE ON SHEET S4)
   - FLASHING
   - ELECTRICAL
6. RATING OF CONSTRUCTION PER CBC 3002.1. PROJECT ARCHITECT TO DETERMINE CONSTRUCTION TYPE.
7. SITE SPECIFIC ARCHITECT/ENGINEER OF RECORD TO SIGN AND STAMP THE PROJECT SPECIFIC FORM DSA 103.
8. SITE SPECIFIC ITEMS NOTED ON SHEET S4 ARE TO BE SHOWN ON SITE SPECIFIC DRAWINGS.
9. SITE SPECIFIC SOILS REPORT IS REQUIRED WHERE A SOILS PRESSURE GREATER THAN 1500 PSF IS CHOSEN.
10. SITE SPECIFIC ARCHITECT/ENGINEER TO PROVIDE A MINIMUM 1/4" PER FOOT ROOF SLOPE.
11. WHERE SNOW LOAD OPTION IS CHOSEN, PROVIDE A ROOF JOIST DESIGN FOR DRIFT OR PROVIDE A 20' – 0" SEPARATION DISTANCE BETWEEN THE ROOF AND ADJACENT STRUCTURE OR TERRAIN FEATURE. SEE TABLE 6 NOTE ON SHEET S4.
12. PER CBC 3002.4A ALL BUILDINGS OR STRUCTURES TO BE PROVIDED WITH NO LESS THAN ONE MEDICAL EMERGENCY SERVICE ELEVATOR.
13. FOR ELEVATORS WHERE HOISTWAY PROTECTION IS REQUIRED. HOISTWAY TO BE PROVIDED WITH SHAFT CONSTRUCTION IN ACCORDANCE WITH CBC 713.
14. CONSTRUCTION TYPE, OCCUPANCY CLASSIFICATION, BUILDING HEIGHT SHALL BE DETERMINED DURING SITE PLACEMENT DRAWING SUBMITTAL IN CONJUNCTION WITH THE BUILDING THAT THIS MODULAR ELEVATOR EQUIPMENT'S STRUCTURE WILL SERVE.
15. FOR MAXIMUM CLADDING LOAD, SEE NOTE ON SHEET S4.
16. SUBMITTAL TO AND APPROVAL OF A GEOHAZARD REPORT BY THE CALIFORNIA GEOLOGICAL SURVEY (CGS) IS NOT REQUIRED FOR MODULAR ELEVATOR TOWERS PROVIDED THEY DO NOT EXCEED 4,000 SQUARE FEET (SQ. FT.) IN PLAN AREA AND ARE NOT LOCATED WITHIN MAPPED GEOLOGICAL HAZARD ZONE IN ACCORDANCE WITH IR A-4: GEOHAZARD REPORT REQUIREMENTS, SECTION 3.2.1.

DESIGN CRITERIA (2019 CBC):

OCCUPANCY
CATEGORY II

ELEVATOR CAR WEIGHT = 4000 LBS
ELEVATOR CAR CAPACITY = 4000 LBS MAX (2500 LBS AT HW-1)

GRAVITY ROOF LOADS
ROOF LIVE LOAD ..... 20 PSF (REDUCIBLE) TYP
ROOF DEAD LOAD ..... 20 PSF MAX

SNOW LOADS (SELECT ONE)
☐ STANDARD Pg = 20 PSF
☐ OPTIONAL Pg =45 PSF

LATERAL LOADS
WIND
EXPOSURE C
WIND SPEED ..... 100 MPH
IMPORTANCE FACTOR I 1.0
INTERNAL PRESSURE COEFFICIENT ..... GC_{Pi} = ± 0.18 (ENCLOSED)

COMPONENTS & CLADDING (DESIGNED BY OTHERS) ASCE 7-16 METHOD 1, λ= 1.53 (44' ELEVATOR)
ROOF ..... + 14.0 PSF OR -76 PSF (44')
CLADDING ..... ± 45.0 PSF (44')

SEISMIC
V = EQUIVALENT LATERAL FORCE PROCEDURE BASE SHEAR (STRENGTH DESIGN)

MAX BASE SHEAR
44 FT TOWER
V_U = 19.2K
V_T = 19.2K

AT 44 FT TOWER
V = C_SW = 0.513W (STRENGTH)

*$C_S = \frac{S_{DS}}{(R/I)} = \frac{0.513}{}$

BASIC SEISMIC-FORCE-RESISTING SYSTEM: ORDINARY STEEL CONCENTRICALLY BRACED FRAMES AND LIGHT-FRAME (COLD-FORMED STEEL) WALL SYSTEMS USING FLAT STRAP BRACING

ORDINARY BRACED FRAME
R = 3.25
I_e= 1.0
Ω_o = 2
ρ = 1.3
C_d = 3.25

SITE CLASS = D
* S_s = 2.5 Fa = 1.0 S_{DS} = 1.67
S_1 = 2.0 Fv = 1.7 S_{D1}= 2.3

SEISMIC DESIGN CATEGORY: E

LIGHT-FRAME (COLD-FORMED STEEL) WALL SYSTEMS USING FLAT STRAP BRACING
R= 4
I_e= 1.0
Ω_o= 2.0
ρ = 1.3
Cd = 3.5

*FOR STRUCTURES LESS THAN 5 STORIES TALL: THE 44 FT ELEVATOR STRUCTURE MAY BE LOCATED AT ANY SITE WITH AN S_S LESS THAN 2.50. THE HEIGHT OF THE STRUCTURE SHALL BE LIMITED SUCH THAT THE PERIOD SHALL NOT EXCEED 0.5 SEC. PER SECTION 12.8.2.1 & UPPER LIMIT OF TABLE 12.8-1 OF ASCE 7-16 THE FOLLOWING TABLE HAS BEEN DERIVED.

S_{D1}	C_U	HEIGHT (FT) MAX
$0.2<S_{D1}\leq 0.3$	1.5	44'-0"

FLOOD DESIGN
ELEVATOR / BUILDING NOT APPROVED FOR FLOOD HAZARD AREA

SPECIAL LOADS
NONE APPLICABLE

PROJECT DATA INTERIOR OR EXTERIOR INSTALLATION: (SELECT AS APPLICABLE)
OCCUPANCY CLASSIFICATION ..... ☐ A, ☐ B, ☒ E

CONSTRUCTION TYPE ..... ☐ V-A 1-HOUR
☒ V-B (NON-RATED) SEE NOTE 3
☐ II-A – 1-HOUR
☐ II-B – N (NON-RATED)
☐ III-A – 1-HOUR
☐ III-B – N (NON-RATED)

THIS PC IS NOT APPROVED FOR LOCATIONS IN ANY FIRE HAZARD SEVERITY ZONE AS SPECIFIED IN CBC CHAPTER 7A

SERVE UP TO 2 STORIES AND HAVE UP TO 4 STOPS. OR UP TO TWO STORIES AND HAVE UP TO 4 STOPS.
SHAFT CONSTRUCTION IN ACCORDANCE WITH CBC 713.4. FOR CONSTRUCTION TYPES II-A, II-B, III-A, V-A, V-B ELEVATORS IN SHAFTS TO BE IN 1-HOUR SHAFT CONSTRUCTION IS NOT INSTALLED IN A BUILDING AND / OR OPENING BETWEEN FLOORS IS PERMITTED TO BE WITHOUT SHAFT ENCLOSURE BY CBC 712.1, SHAFT ENCLOSURE NOT REQUIRED. ELEVATOR ENCLOSURE TO COMPLY WITH ASME A.17.1
ELEVATOR BUILDING AREA ..... 88 SQ FT (APPROX)
MODULAR EQUIPMENT ROOM AREA ..... 85 SQ FT (APPROX)
FIRE SPRINKLERS ..... NOT PART OF THE PC APPROVAL. SPRINKLER REQUIREMENTS TO BE INCLUDED IN THE SITE APPLICATION DRAWINGS. SPRINKLERS NOT REQUIRED WHERE ALL PROVISIONS OF CBC 3005.4.1 ARE MET SPRINKLERS AT TOP OF THE SHAFT NOT REQUIRED PER NFPA 13 SECTION 8.15.5.6 AND 8.15.5.6.1.

NOTES: (SELECT AS APPLICABLE)
☐ THE DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET
☐ THIS DRAWINGS, PAGE OF SPECIFICATIONS / CALCULATIONS
HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND / OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. THESE DOCUMENTS HAVE BEEN EXAMINED BY ME FOR:
1. DESIGN INTENT AND APPEAR TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY MEM, AND .....
2. COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.
3. LOCATION OF ELEVATOR IS TO COMPLY WITH CBC CHAPTERS 3, 5, 6, 7, 10 AND 30 AND SITE SPECIFIC PROVISIONS (BUT NOT LIMITED TO).
4. ANY FIRE ALARM SUBMITTAL SHALL COMPLY WITH 2019 CBC SECTION 907.3.3; 3005.5 AND NFPA 72 AS AMENDED BY DSA/SFM. FIRE ALARM PROVIDED BY OTHERS.
5. CONSTRUCTION DOCUMENTS FOR SITE-SPECIFIC APPLICATION TO DSA SHALL INCLUDE A COPY OF THE DSA-103 FORM FOR STRUCTURAL TEST AND SPECIAL INSPECTIONS.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344 OF TITLE 24, PART 2 (TITLE 24, PART 1, SECTION 4-317).

MEM S AND VT DRAWINGS HAVE BEEN REVIEWED AND ACCEPTED.

SIGNATURE OF THE ARCHITECT / ENGINEER DATE

LICENSE NUMBER EXPIRATION DATE

Mark Tedesco No. C-49138 Expires 3-31-2023 LICENSED ARCHITECT STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

PRE-CHECK (PC) DOCUMENTS
2019 CBC CODE
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

S.E. PC APPROVAL

Mark D. Evans No. S3380 REGISTERED PROFESSIONAL ENGINEER STRUCTURAL STATE OF CALIFORNIA

10/28/2021

MODULAR ELEVATOR MANUFACTURING, INC.
P.O. BOX 3998
CHATSWORTH, CA. 91313
800-755-9359

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-119748 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/28/2021

MEM INC
MODULAR ELEVATOR MANUFACTURING

THIS INFORMATION IS CONFIDENTIAL AND REMAINS THE PROPERTY OF MODULAR ELEVATOR MANUFACTURING, INC. ITS USE, REPRODUCTION OF, OR DESSEMINATION WITHOUT THE EXPRESS PERMISSION OF MODULAR ELEVATOR MANUFACTURING, INC. IS STRICTLY PROHIBITED.

PROJECT NO: 19835
DATE: 09/15/2021
ENGINEERED BY: KAL
DRAWN BY: MTC

NO.	DATE	REVISION

COVER SHEET

SHEET NO:

S1

L:\Jobs\10\19835 MEM 2019 CBC PC\CAD\STR\XS1-2019 CBC PC.dwg Time/Date/27-2021 - 11:46am Login/connection Bmissale1 LT/Scale:0.5

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2019 CBC

Application Number: 04-119748
DSA File Number:
School Name: Modular Elevator Manufacturing
Increment Number:
School District: PC
Date Created: 2021-10-27 12:49:20

2019 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2019 CBC).

****NOTE:** Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required **Periodic** – Indicates that a periodic special inspection is required **Test** – Indicates that a test is required	**GE** – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative. **LOR** – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335. **PI** – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA. **SI** – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

Application Number: 04-119748
DSA File Number:
School Name: Modular Elevator Manufacturing
Increment Number:
School District: PC
Date Created: 2021-10-27 12:49:20

Geotechnical Reports: Project does NOT have and does NOT require a geotechnical report

	1. GENERAL:	Table 1705A.6		
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify that: • Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. • Foundation excavations are extended to proper depth and have reached proper material. • Materials below footings are adequate to achieve the design bearing capacity.	**See Notes**	**PI**	Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12" depth under foundations is not permitted without a geotechnical report.

	2. SOIL COMPACTION AND FILL:	Table 1705A.6		
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.	**Continuous**	**LOR***	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.
☑	**b.** Compaction testing.	**Test**	**LOR***	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.

	3. DRIVEN DEEP FOUNDATIONS (PILES):	Table 1705A.7

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

Application Number: 04-119748
DSA File Number:
School Name: Modular Elevator Manufacturing
Increment Number:
School District: PC
Date Created: 2021-10-27 12:49:20

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	**a.** Verify pile materials, sizes and lengths comply with the requirements.	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative.
☐	**b.** Determine capacities of test piles and conduct additional load tests as required.	**Test**	**LOR***	* Under the supervision of the geotechnical engineer.
☐	**c.** Inspect driving operations and maintain complete and accurate records for each pile.	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative.
☐	**d.** Verify locations of piles and their plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and record any pile damage.	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative.
☐	**e.** Steel piles.	Provide tests and inspections per STEEL section below.		
☐	**f.** Concrete piles and concrete filled piles.	Provide tests and inspections per CONCRETE section below.		
☐	**g.** For specialty piles, perform additional inspections as determined by the registered design professional in responsible charge.	*	*	* As defined on drawings or specifications.

	4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):	Table 1705A.8		
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

Application Number: 04-119748
DSA File Number:
School Name: Modular Elevator Manufacturing
Increment Number:
School District: PC
Date Created: 2021-10-27 12:49:20

☐	**a.** Inspect drilling operations and maintain complete and accurate records for each pier.	**Continuous**	**PI**	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.
☐	**b.** Verify pier locations, diameters, plumbness and lengths.Record concrete or grout volumes.	**Continuous**	**PI**	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.
☐	**c.** Concrete piers.	Provide tests and inspections per CONCRETE section below.		

	5. RETAINING WALLS:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Placement, compaction and inspection of backfill.	**Continuous**	**GE***	**1705A.6.1**, * By geotechnical engineer or his or her qualified representative. (See Section 2 above).
☐	**b.** Placement of soil reinforcement and/or drainage devices.	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative.
☐	**c.** Segmental retaining walls; inspect placement of units, dowels, connectors, etc.	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative. See DSA IR 16-3.
☐	**d.** Concrete retaining walls.	Provide tests and inspections per CONCRETE section below.		
☐	**e.** Masonry retaining walls.	Provide tests and inspections per MASONRY section below.		

	6. OTHER SOILS:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

Application Number: 04-119748
DSA File Number:
School Name: Modular Elevator Manufacturing
Increment Number:
School District: PC
Date Created: 2021-10-27 12:49:20

☐	**a.** Soil Improvements	**Test**	**GE***	Submit a comprehensive report documenting final soil improvements constructed, construction observation and the results of the confirmation testing and analysis to CGS for final acceptance. * By geotechnical engineer or his or her qualified representative.
☐	**b.** Inspection of Soil Improvements	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative.
☐	**c.**			

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

Table 1705A.3; ACI 318-14 Sections 26.12 & 26.13

Application Number: 04-119748
DSA File Number:
School Name: Modular Elevator Manufacturing
Increment Number:
School District: PC
Date Created: 2021-10-27 12:49:20

	7. CAST-IN-PLACE CONCRETE			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
Material Verification and Testing:				
☑	**a.** Verify use of required design mix.	**Periodic**	**SI**	**Table 1705A.3 Item 5, 1910A.1.**
☑	**b.** Identify, sample, and test reinforcing steel.	**Test**	**LOR**	**1910A.2**; ACI 318-14 Section 26.6.1.2; DSA IR 17-10. (See Appendix for exemptions.)
☑	**c.** During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	**Test**	**LOR**	**Table 1705A.3 Item 6**; ACI 318-14 Sections 26.5 & 26.12.
☑	**d.** Test concrete (f'_c).	**Test**	**LOR**	**1905A.1.15**; ACI 318-14 Section 26.12.
Inspection:				
☑	**e.** Batch plant inspection: **Continuous**	**See Notes**	**SI**	Default of "**Continuous**" per **1705A.3.3**. If approved by DSA, batch plant inspection may be reduced to "**Periodic**" subject to requirements in Section **1705A.3.3.1,** or eliminated per **1705A.3.3.2.** (See Appendix for exemptions.)
☐	**f.** Welding of reinforcing steel.	Provide special inspection per STEEL, Category 19.1(d) & (e) and/or 19.2(g) & (h) below.		

	8. PRESTRESSED / POST-TENSIONED CONCRETE (in addition to Cast-in-Place Concrete tests and inspections):

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

Table 1705A.3; ACI 318-14 Sections 26.12 & 26.13

Application Number: 04-119748
DSA File Number:
School Name: Modular Elevator Manufacturing
Increment Number:
School District: PC
Date Created: 2021-10-27 12:49:20

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	**a.** Sample and test prestressing tendons and anchorages.	**Test**	**LOR**	**1705A.3.4, 1910A.3**
☐	**b.** Inspect placement of prestressing tendons.	**Periodic**	**SI**	**1705A.3.4, Table 1705A.3 Items 1 & 9.**
☐	**c.** Verify in-situ concrete strength prior to stressing of post-tensioning tendons.	**Periodic**	**SI**	**Table 1705A.3 Item 11.** Special inspector to verify specified concrete strength test prior to stressing.
☐	**d.** Inspect application of post-tensioning or prestressing forces and grouting of bonded prestressing tendons.	**Continuous**	**SI**	**1705A.3.4, Table 1705A.3 Item 9;** ACI 318-14 Section 26.13

	9. PRECAST CONCRETE (in addition to Cast-in-Place Concrete tests and inspections):			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Inspect fabrication of precast concrete members.	**Continuous**	**SI**	ACI 318-14 Section 26.13.
☐	**b.** Inspect erection of precast concrete members.	**Periodic**	**SI***	**Table 1705A.3 Item 10.** * May be performed by PI when specifically approved by DSA.

	10. SHOTCRETE (in addition to Cast-in-Place Concrete tests and inspections):			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

Table 1705A.3; ACI 318-14 Sections 26.12 & 26.13

Application Number: 04-119748
DSA File Number:
School Name: Modular Elevator Manufacturing
Increment Number:
School District: PC
Date Created: 2021-10-27 12:49:20

☐	**a.** Inspect shotcrete placement for proper application techniques.	**Continuous**	**SI**	**1705A.19, Table 1705A.3 Item 7, 1908A.6, 1908A.7, 1908A.8, 1908A.9, 1908A.11, 1908A.12.** See ACI 506.2-13 Section 3.4, ACI 506R-16.
☐	**b.** Sample and test shotcrete (f'_c).	**Test**	**LOR**	**1908A.5, 1908A.10.**

	11. POST-INSTALLED ANCHORS:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Inspect installation of post-installed anchors	**See Notes**	**SI***	**1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8** (See Appendix for exemptions). ACI 318-14 Sections 17.8 & 26.13.* May be performed by the project inspector when specifically approved by DSA.
☑	**b.** Test post-installed anchors.	**Test**	**LOR**	**1910A.5.** (See Appendix for exemptions.)

	12. OTHER CONCRETE:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.**			

FORM DSA–103 NOTES:

1. THE EXAMPLE FORM DSA–103 SHOWN ON SHEET S1A & S1B IS FOR ILLUSTRATION PURPOSES ONLY TO ASSIST IN THE COMPLETION OF FUTURE PROJECT–SPECIFIC FORM DSA–103. A FORM DSA–103 IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS PRE–CHECK IS BEING INCORPORATED INTO AND THE EXAMPLE FORM DSA–103 IS TO BE CROSSED OUT ON THIS DRAWING.
2. QUALIFIED REPRESENTATIVE OF LABORATORY OF RECORD OR APPROVED SPECIAL INSPECTOR SHALL VERIFY ALL STEEL IDENTIFICATION PER CBC SECTION 2203A.1.
3. NONDESTRUCTIVE TESTING IS TO BE DETERMINED BY THE SITE–SPECIFIC PROJECT APPLICANT AND APPROVED BY DSA BASED ON SITE-SPECIFIC PROJECT AND AISC 341 REQUIREMENTS. WHERE REQUIRED ULTRASONIC AND MAGNETIC PARTICLE TESTING SHALL BE PERFORMED AT THE RATES SPECIFIED IN AISC 341 SECTIONS J6.2A AND J6.2B. THE TEST FREQUENCY REDUCTIONS OF AISC 341 SECTIONS J6.2G AND J6.2H ARE NOT ALLOWED.
4. FIELD WELDING INSPECTION IS REQUIRED ONLY WHERE DETAILS OF THE PRE-CHECK SPECIFY THIS WELDING
5. ULTRASONIC TESTING (UT) SHALL BE PERFORMED ON 100% OF CJP GROOVE WELDS WHEN THE COLUMNS HAVE A THICKNESS OF 5/16" OR GREATER.

INSPECTION NOTES:

GENERAL:
IN ADDITION TO THE INSPECTIONS REQUIRED BY SECTION 108 OF THE 2019 CBC, THE OWNER SHALL EMPLOY A DSA APPROVED SPECIAL INSPECTOR TO PERFORM SPECIAL INSPECTIONS & TESTS AS INDICATED IN DSA FORM NO. DSA 103.

1. ALL TESTS AND INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT INSPECTION AGENCY WHICH IS IN THE EMPLOYMENT OF THE SCHOOL DISTRICT.
2. ALL SPECIAL INSPECTION & TESTING AGENCIES SHALL BE QUALIFIED PER ASTM E329, APPROVED BY DSA AND SHALL SUPPLY ALL OF THEIR OWN TESTING EQUIPMENT.
3. PROVIDE INSPECTION REPORTS TO DSA, OWNER, ARCHITECT AND ENGINEER WITHIN TWO WEEKS OF PERFORMANCE OF INSPECTION OR TEST.
4. REFER TO CHAPTER 17A OF THE CODE FOR OTHER REQUIRED SPECIAL INSPECTIONS AND TESTS NOT LISTED IN THE SCHEDULE ON DSA FORM NO. DSA 103. FOR EXAMPLE, SPRAY APPLIED FIRE–RESISTANT MATERIALS PER CBC 1705A.14.
5. IT IS THE CONTRACTORS RESPONSIBILITY TO SEE THAT THE TESTS AND INSPECTIONS ARE PERFORMED. JOB SITE VISITS BY STRUCTURAL ENGINEER DO NOT CONSTITUTE AND ARE NOT A SUBSTITUTE FOR INSPECTIONS.
6. WHERE THE CONTRACTOR CHOOSES TO USE AN APPROVED ALTERNATIVE MEANS FOR FASTENING OR ANCHORING MATERIALS THAT REQUIRE SPECIAL FIELD INSPECTION, SUCH AS FIELD WELDING, ADHESIVE OR EXPANSION ANCHORS, ETC. ALL ADDITIONAL SPECIAL INSPECTION AND TESTING COSTS SHALL BE PAID BY THE SCHOOL DISTRICT AND DEDUCTED FROM THE CONTRACT AMOUNT.
7. ADDITIONAL PAYMENTS AT CUSTOMARY AND PREVAILING WAGE RATES WILL BE REQUIRED IN RESPONSE TO INSPECTION REQUESTS IF DEFICIENCIES ARE FOUND.
8. GENERAL CONTRACTOR IS RESPONSIBLE FOR ANY STRUCTURAL CONSULTATION REQUESTS AND FEES DONE AT STANDARD RATES, PLUS REASONABLE MARKUP.
9. INSPECTION BY PROJECT INSPECTOR. THE SCHOOL BOARD MUST PROVIDE FOR AND REQUIRE COMPETENT, BY A DSA APPROVED INSPECTOR SATISFACTORY TO THE ARCHITECT OR REGISTERED ENGINEER IN GENERAL RESPONSIBLE CHARGE OF OBSERVATION OF THE WORK OF CONSTRUCTION, TO ANY ARCHITECT OR REGISTERED ENGINEER DELEGATED RESPONSIBILITY FOR A PORTION OF THE WORK, AND TO DSA. THE COST OF PROJECT INSPECTION SHALL BE PAID FOR BY THE SCHOOL BOARD. AN INSPECTOR SHALL NOT HAVE ANY CURRENT EMPLOYMENT RELATIONSHIP WITH ANY ENTITY THAT IS A CONTRACTING PARTY FOR THE CONSTRUCTION.
10. DSA APPROVAL OF THE IN–PLANT INSPECTOR SHALL BE OBTAINED PRIOR TO COMMENCEMENT OF FABRICATION.
11. FOR ELEVATOR TOWERS THAT ARE MANUFACTURED IN–PLANT, THE IN–PLANT INSPECTOR SHALL ATTACH A COMPLETED AND SIGNED VERIFIED REPORT (FORM DSA–6) INSIDE EACH TOWER. THE VERIFIED REPORT SHALL INDICATE THE MANUFACTURER'S NAME AND THE SERIAL NUMBER FOR EACH TOWER AS WELL AS THE DSA FILE AND APPLICATION NUMBERS.
12. THE LOCATION OF THE IDENTIFICATION LABEL FOR TOWERS THAT ARE MANUFACTURED IN–PLANT PER S5–1, S5–2 OR S5–3. THE LABELS SHALL SHOW THE DSA APPLICATION NUMBER UNDER WHICH THE BUILDING CONSTRUCTION WAS AUTHORIZED, THE MANUFACTURER OR BUILDER'S NAME, THE SERIAL NUMBER, THE DESIGN CLIMATE ZONES (PER TILE 24, PART 6, SECTION 143 (a)8), THE DESIGN LIVE LOADS FOR THE ROOF, AND THE DESIGN WIND SPEED AND EXPOSURE CATEGORY. THE LOCATION OF THE IDENTIFICATION LABELS SHALL BE SHOWN ON THE PRE–CHECKED BUILDING PLANS.
13. DESIGN MIX NOT REQUIRED FOR NON–SHRINK GROUT.
14. A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4–342, PART 1, TITLE 24, C.C.R.; IN–PLANT–RBIP OR CLASS 1 SITE: CLASS 2. AN INSPECTOR WHO IS SPECIALLY QUALIFIED IN MECHANICAL AND ELECTRICAL WORK WILL BE REQUIRED FOR THIS PROJECT.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

PRE-CHECK (PC) DOCUMENTS
2019 CBC CODE
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

S.E. PC APPROVAL

REGISTERED PROFESSIONAL ENGINEER
Mark D. Lehman
No. S3380
STRUCTURAL
STATE OF CALIFORNIA
10/28/2021

MODULAR ELEVATOR MANUFACTURING, INC.
P.O. BOX 3998
CHATSWORTH, CA. 91313
800-755-9359

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-119748 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/28/2021

MEM INC
MODULAR ELEVATOR MANUFACTURING

THIS INFORMATION IS CONFIDENTIAL AND REMAINS THE PROPERTY OF MODULAR ELEVATOR MANUFACTURING, INC. ITS USE, REPRODUCTION OF, OR DESSEMINATION WITHOUT THE EXPRESS PERMISSION OF MODULAR ELEVATOR MANUFACTURING, INC. IS STRICTLY PROHIBITED.

PROJECT NO:	19835
DATE:	09/15/2021
ENGINEERED BY:	KAL
DRAWN BY:	MTC

NO.	DATE	REVISION

TESTING & INSPECTION CRITERIA

SHEET NO:

S1A

LICENSED ARCHITECT
MARK T. BOARD
No. C-31138
REGISTERED 12-31-2021
STATE OF CALIFORNIA

L:\Jobs\19\19835_MEM_2019_CBC_PC\CAD\STRUCT\S1A_2019_CBC_PC.dwg Time:Oct/25/2021 - 03:58pm Login:cmcshorn Xrefs:ste1 LTScale:0.5

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1; Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

Application Number: 04-119748
DSA File Number:
School Name: Modular Elevator Manufacturing
Increment Number:
School District: PC
Date Created: 2021-10-27 12:49:20

	17. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES			
Material Verification and Testing:				
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	**Periodic**	*	**Table 1705A.2.1 Item 3a–3c.** 2203A.1; AISI S100-16 Section A3.1 & A3.2, AISI S240-15 Section A3 & A5, AISI S220-15 Sections A4 & A6. * By special inspector or qualified technician when performed off-site.
☑	**b.** Test unidentified materials	**Test**	**LOR**	**2202A.1.**
☑	**c.** Examine seam welds of HSS shapes	**Periodic**	**SI**	DSA IR 17-3.
Inspection:				
☑	**d.** Verify and document steel fabrication per DSA-approved construction documents.	**Periodic**	**SI**	Not applicable to cold-formed steel light-frame construction, except for trusses (**1705A.2.4**).

	18. HIGH-STRENGTH BOLTS: RCSC 2014			
Material Verification and Testing of High-Strength Bolts, Nuts and Washers:				
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents.	**Periodic**	**SI**	**Table 1705A.2.1 Items 1a & 1b, 2202A.1;** AISC 360-16 Section A3.3, J3.1, and N3.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

Application Number: 04-119748
DSA File Number:
School Name: Modular Elevator Manufacturing
Increment Number:
School District: PC
Date Created: 2021-10-27 12:49:20

☐	**b.** Test high-strength bolts, nuts and washers.	**Test**	**LOR**	**Table 1705A.2.1 Item 1c, 2213A.1**; RCSC 2014 Section 7.2; DSA IR 17-8.
Inspection of High-Strength Bolt Installation:				
☐	**c.** Bearing-type ("snug tight") connections.	**Periodic**	**SI**	**Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2**; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Section 9.1; DSA IR 17-9.
☐	**d.** Pretensioned and slip-critical connections.	*	**SI**	**Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2**; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. * "Continuous" or "Periodic" depends on the tightening method used.

	19. WELDING:	**1705A.2.5, Table 1705A.2.1 Items 4 & 5;** AWS D1.1 and AWS D1.8 for structural steel. AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel, AWS D1.4 for reinforcing steel; DSA IR 17-3 (See Appendix for exemptions.)		
Verification of Materials, Equipment, Welders, etc.:				
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	**Periodic**	**SI**	DSA IR 17-3.
☑	**b.** Verify weld filler material manufacturer's certificate of compliance.	**Periodic**	**SI**	DSA IR 17-3.
☑	**c.** Verify WPS, welder qualifications and equipment.	**Periodic**	**SI**	DSA IR 17-3.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

Application Number: 04-119748
DSA File Number:
School Name: Modular Elevator Manufacturing
Increment Number:
School District: PC
Date Created: 2021-10-27 12:49:20

	19.1 SHOP WELDING:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	**Continuous**	**SI**	**Table 1705A.2.1 Items 5a.1–4;** AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☑	**b.** Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	**Periodic**	**SI**	**1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6;** AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☐	**c.** Inspect welding of stairs and railing systems.	**Periodic**	**SI**	**1705A.2.1**; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.
☐	**d.** Verification of reinforcing steel weldability other than ASTM A706.	**Periodic**	**SI**	**1705A.3.1**; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
☐	**e.** Inspect welding of reinforcing steel.	**Continuous**	**SI**	**Table 1705.A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8;** AWS D1.4; DSA IR 17-3.

	19.2 FIELD WELDING:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	**Continuous**	**SI**	**Table 1705A.2.1 Items 5a.1–4;** AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
☑	**b.** Inspect single-pass fillet welds ≤ 5/16".	**Periodic**	**SI**	**Table 1705A.2.1 Item 5a.5;** AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

Application Number: 04-119748
DSA File Number:
School Name: Modular Elevator Manufacturing
Increment Number:
School District: PC
Date Created: 2021-10-27 12:49:20

☐	**c.** Inspect end-welded studs (ASTM A-108) installation (including bend test).	**Periodic**	**SI**	**2213A.2**; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1; DSA IR 17-3.
☐	**d.** Inspect floor and roof deck welds.	**Periodic**	**SI**	**1705A.2.2, Table 1705A.2.1 Item 5a.6;** AISC 360-16 (AISC 341-16 as applicable); AWS D1.3; DSA IR 17-3.
☑	**e.** Inspect welding of structural cold-formed steel.	**Periodic**	**SI***	**1705A.2.5, AWS D1.3; DSA IR 17-3.** The quality control provisions of AISI S240-15 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA.
☐	**f.** Inspect welding of stairs and railing systems.	**Periodic**	**SI***	**1705A.2.1**; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.
☐	**g.** Verification of reinforcing steel weldability.	**Periodic**	**SI**	**1705A.3.1**; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
☐	**h.** Inspect welding of reinforcing steel.	**Continuous**	**SI**	**Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8;** AWS D1.4; DSA IR 17-3.

	20. NONDESTRUCTIVE TESTING: 1705A.2.4, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Ultrasonic	**Test**	**LOR**	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; ANSI/ ASNT CP-189, SNT-TC-1A; AWS D1.1, AWS D1.8; DSA IR 17-2.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

Application Number: 04-119748
DSA File Number:
School Name: Modular Elevator Manufacturing
Increment Number:
School District: PC
Date Created: 2021-10-27 12:49:20

☑	**b.** Magnetic Particle	**Test**	**LOR**	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; ANSI/ ASNT CP-189, SNT-TC-1A; AWS D1.1, AWS D1.8; DSA IR 17-2.
☐	**c.**	**Test**	**LOR**	

	21. STEEL JOISTS AND TRUSSES: 1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist.	**Continuous**	**SI**	**1705A.2.3, Table 1705A.2.3;** AWS D1.1; DSA IR 22-3 for steel joists only. **1705A.2.4;** AWS D1.3 for cold-formed steel trusses.

	22. SPRAY APPLIED FIRE-PROOFING: 1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents.	**Periodic**	**SI**	**1705A.14.**
☐	**b.** Test bond strength.	**Test**	**LOR**	**1705A.14.6.**

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

Application Number: 04-119748
DSA File Number:
School Name: Modular Elevator Manufacturing
Increment Number:
School District: PC
Date Created: 2021-10-27 12:49:20

☐	**c.** Test density.	**Test**	**LOR**	**1705A.14.5.**

	23. ANCHOR BOLTS AND ANCHOR RODS:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Anchor Bolts and Anchor Rods	**Test**	**LOR**	Sample and test anchor bolts and anchor rods not readily identifiable per procedures noted in DSA IR 17-11.
☐	**b.** Threaded rod not used for foundation anchorage.	**Test**	**LOR**	Sample and test threaded rods not readily identifiable per procedures noted in DSA IR 17-11.

	Other Steel			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Shop Welding - Inspect welding of cold-formed steel	**Periodic**	**SI**	

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number: 04-119748
DSA File Number:
School Name: Modular Elevator Manufacturing
Increment Number:
School District: PC
Date Created: 2021-10-27 12:49:20

Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. **Items marked as exempt shall be identified on the approved construction documents**. The project inspector shall verify all construction complies with the approved construction documents.

	SOILS:
☐	1. Deep foundations acting as a cantilever footing designed based on minimum allowable pressures per CBC Table 1806A.2 and having no geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade.
☐	2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill.

	CONCRETE/MASONRY:
☐	1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding") given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding."
☐	2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number: 04-119748
DSA File Number:
School Name: Modular Elevator Manufacturing
Increment Number:
School District: PC
Date Created: 2021-10-27 12:49:20

☐	3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1.16. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.
☐	4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.
☐	5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.

	Welding:
☐	1. Solid-clad and open-mesh gates with maximum leaf span or rolling section for rolling gates of 10' and apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
☐	2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the 'Exception' language in Section 1705A.2.1); fillet welds shall not be ground flush.
☐	3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.
☐	4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections 19, 19.1 and/or 19.2 of listing above).
☐	5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections 19, 19.1 and/or 19.2 of listing above).

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number: 04-119748
DSA File Number:
School Name: Modular Elevator Manufacturing
Increment Number:
School District: PC
Date Created: 2021-10-27 12:49:20

☐	6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for section 19, 19.1 and/or 19.2 located in the Steel/Aluminum category).
☐	7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) ≤4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS(SIGNATURE), 2019 CBC

Application Number: 04-119748
DSA File Number:
School Name: Modular Elevator Manufacturing
Increment Number:
School District: PC
Date Created: 2021-10-27 12:49:20

Name of Architect or Engineer in general responsible charge:
Name of Structural Engineer (When structural design has been delegated):
Signature of Architect or Structural Engineer: Date:

Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.

DSA STAMP

DSA 103-19: LIST OF REQUIRED VERIFIED REPORTS, CBC 2019

Application Number: 04-119748
DSA File Number:
School Name: Modular Elevator Manufacturing
Increment Number:
School District: PC
Date Created: 2021-10-27 12:49:20

1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
2. Concrete Batch Plant Inspection: Laboratory Verified Report Form DSA 291
3. Post-installed Anchors: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292
4. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292
5. Field Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

PRE-CHECK (PC) DOCUMENTS
2019 CBC CODE
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

S.E. PC APPROVAL

REGISTERED PROFESSIONAL ENGINEER — Mauricio D. Cardenas — No. S3380 — STRUCTURAL — STATE OF CALIFORNIA
10/28/2021

MODULAR ELEVATOR MANUFACTURING, INC.
P.O. BOX 3998
CHATSWORTH, CA. 91313
800-755-9359

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-119748 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/28/2021

MEM INC
MODULAR ELEVATOR MANUFACTURING

THIS INFORMATION IS CONFIDENTIAL AND REMAINS THE PROPERTY OF MODULAR ELEVATOR MANUFACTURING, INC. ITS USE, REPRODUCTION OF, OR DESSEMINATION WITHOUT THE EXPRESS PERMISSION OF MODULAR ELEVATOR MANUFACTURING, INC. IS STRICTLY PROHIBITED.

PROJECT NO: 19835
DATE: 09/15/2021
ENGINEERED BY: KAL
DRAWN BY: MTC

NO.	DATE	REVISION

TESTING & INSPECTION CRITERIA

SHEET NO:
S1B

LICENSED ARCHITECT — MARK TOLEDO — No. C-31138 — 31-25 — STATE OF CALIFORNIA

L:\Jobs\20\19835_MEM_2019_CBC_PC\CAD\STRUCT\S1B_2019_CBC_PC.dwg Time:Oct27,2021 - 11:51am Login:cmcmahon Dxnescale:1 LTScale:0.5

STRUCTURAL ABBREVIATIONS

@	AT	INFO	INFORMATION
∠	ANGLE	JST	JOIST
AB	ANCHOR BOLT	JT	JOINT
ABV	ABOVE	KSI	KIPS PER SQUARE INCH
AC	ASPHALTIC CONCRETE	LL	LIVE LOAD
ACI	AMERICAN CONCRETE INSTITUTE	LLH	LONG LEG HORIZONTAL
ADDNL	ADDITIONAL	LLV	LONG LEG VERTICAL
ADJ	ADJACENT	LGTH	LENGTH
AFF	ABOVE FINISH FLOOR	LONG	LONGITUDINAL
AGG	AGGREGATE	LS	LAG SCREW
AISC	AMERICAN INSTITUTE FOR STEEL CONSTRUCTION	LSL	LAMINATED STRAND LUMBER
ALT	ALTERNATE	LT WT	LIGHT WEIGHT
ALUM	ALUMINUM	LVL	LAMINATED VENEER LUMBER
APPROX	APPROXIMATE	LWC	LIGHT WEIGHT CONCRETE
ARCH	ARCHITECT / ARCHITECTURAL	MAX	MAXIMUM
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS	MCJ	MASONRY CONTROL JOINT
AWS	AMERICAN WELDING SOCIETY	MECH	MECHANICAL
BEV	BEVELED	MEM	MODULAR ELEVATOR MANUFACTURER
BLW	BELOW	MEP	MECHANICAL, ELECTRICAL, PLUMBING
BLDG	BUILDING	MER	MODULAR ELEVATOR ROOM
BLK	BLOCK	MEZZ	MEZZANINE
BLKG	BLOCKING	MFR	MANUFACTURER
BM	BEAM	MIN	MINIMUM
BN	BOUNDARY NAILING / BOUNDARY FASTENING	MISC	MISCELLANEOUS
BO	BY OTHERS	MRD	METAL ROOF DECK
BOC	BOTTOM OF CONCRETE	MTL	METAL
BOF	BOTTOM OF FOOTING	(N)	NEW
BOTT	BOTTOM	N/A	NOT APPLICABLE
BRCG	BRACING	NIC	NOT IN CONTRACT
BRG	BEARING	NO. (#)	NUMBER OR POUNDS
BRG PL	BEARING PLATE	NOM	NOMINAL
BTW	BETWEEN	NS&FS	NEARSIDE & FARSIDE
BYD	BEYOND	NSG	NON-SHRINK GROUT
C	CAMBER	NTS	NOT TO SCALE
CBC	CALIFORNIA BUILDING CODE	NWC	NORMAL WEIGHT CONCRETE
CCR	CALIFORNIA CODE OF REGULATIONS	OC	ON CENTER
CE	CIVIL ENGINEER	OD	OUTSIDE DIAMETER
CG	CENTER OF GRAVITY	OSB	ORIENTED STRAND BOARD
CIP	CAST IN PLACE	OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING & DEVELOPMENT
CJ	CONSTRUCTION JOINT		
CJP	COMPLETE JOINT PENETRATION	OWJ	OPEN WEB JOIST
CL (℄)	CENTERLINE	OPG	OPENING
CLG	CEILING	OPP	OPPOSITE
CLR	CLEAR	OH	OPPOSITE HAND
CMU	CONCRETE MASONRY UNIT	PCC	PRECAST CONCRETE
COL	COLUMN	PC	PIPE COLUMN
CONC	CONCRETE	PCF	PER CUBIC FOOT
CONN	CONNECTION	PERP	PERPENDICULAR
CONSTR	CONSTRUCTION	PJP	PARTIAL JOINT PENETRATION
CONT	CONTINUOUS	PL (⅊)	PLATE
COORD	COORDINATE / COORDINATION	PLWD	PLYWOOD
CP	COMPLETE PENETRATION	PN	PERIMETER NAILING / PERIMETER FASTENING
CTR	CENTER		
CTRD	CENTERED	PP	PARTIAL PENETRATION
DBG	DISTANCE BETWEEN GUIDES	PSF	POUNDS PER SQUARE FOOT
DBL	DOUBLE	PSI	POUNDS PER SQUARE INCH
DEPR	DEPRESSED	PSL	PARALLEL STRAND BOARD
DIA (Ø)	DIAMETER	PTDF	PRESSURE TREATED DOUG FIR
DIAG	DIAGONAL	PT	POINT
DIM	DIMENSION	PVC	POLYVINYL CHLORIDE
DL	DEAD LOAD	R	RADIUS
DN	DOWN	REINF	REINFORCING / REINFORCEMENT
DSA	DIVISION OF THE STATE ARCHITECT	REQ	REQUIRED
DTL	DETAIL	RJ	ROOF JOIST
DWG	DRAWING	RR	ROOF RAFTER
(E)	EXISTING	SAD	SEE ARCHITECTURAL DRAWINGS
EA	EACH	SC	SLIP-CRITICAL
EE	EACH END	SCHED	SCHEDULE
EF	EACH FACE	SDST	SELF-DRILLING SELF-TAPPING
EJ	EXPANSION JOINT	SE	STRUCTURAL ENGINEER
ELEV	ELEVATION	SEIS JT	SEISMIC JOINT
EN	EDGE NAILING / EDGE FASTENING	SHT	SHEET
EOS	EDGE OF SLAB	SHTHG	SHEATHING
EOR	ENGINEER OF RECORD	SHRWL	SHEARWALL
EQ (=)	EQUAL	SIM	SIMILAR
ES	EACH SIDE	SJ	SHRINKAGE JOINT
EW	EACH WAY	SLH	SHORT LEG HORIZONTAL
EB	EXPANSION BOLT	SLV	SHORT LEG VERTICAL
EQUIP	EQUIPMENT	SM	SHEET METAL
EXTR	EXTERIOR	SMS	SHEET METAL SCREWS
f ' c	MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE	SOG	SLAB ON GRADE
		SP	STRUCTURAL PANELING
f ' m	MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF MASONRY	SPCG	SPACING
		SPEC	SPECIFICATION
FAB	FABRICATE	SQ	SQUARE
FD	FLOOR DRAIN	SS	STAINLESS STEEL
FF	FINISH FLOOR	STAG	STAGGER
FFE	FINISH FLOOR ELEVATION	STD	STANDARD
FG	FINISH GRADE	STIFF	STIFFENER
FHWS	FLAT HEAD WOOD SCREW	STL	STEEL
FIN	FINISH	STRUC	STRUCTURAL
FLG	FLANGE	SYM	SYMMETRICAL
FLR	FLOOR	T24	TITLE 24 CALIFORNIA CODE
FN	FIELD NAILING / FIELD FASTENING	TBD	TO BE DETERMINED
FND	FOUNDATION	THRD	THREAD / THREADED
FOC	FACE OF CONCRETE	THK	THICK / THICKNESS
FOM	FACE OF MASONRY	TN	TOE NAIL
FOS	FACE OF STUD	T.O	TOP OF
FRMG	FRAMING	TOC	TOP OF CONCRETE
FT (')	FOOT / FEET	TOF	TOP OF FOOTING / TOP OF FRAMING
FTG	FOOTING		
Fy	SPECIFIED YIELD STRENGTH OF REINFORCING, PSI OR SPECIFIED MINIMUM YIELD STRENGTH OF STEEL, KSI	TOS	TOP OF STEEL
		TOW	TOP OF WALL
		TRAN	TRANSVERSE
GA	GAUGE	TS	(SEE HSS)
GALV	GALVANIZED	TYP	TYPICAL
GL	GLUE LAMINATED LUMBER	T&B	TOP & BOTTOM
GRD	GRADE	UBC	UNIFORM BUILDING CODE
GT	GROUT	URM	UNREINFORCED MASONRY
GWB	GYPSUM WALLBOARD	USS	UNITED STATES STANDARD
HC	HANDICAP	VERT	VERTICAL
HD	HOLDOWN	VIF	VERIFY IN FIELD
HDR	HEADER	W/	WITH
HK	HOOK	W/O	WITHOUT
HORIZ	HORIZONTAL	WDW	WINDOW
HT	HEIGHT	WF	WIDE FLANGE
HSB	HIGH-STRENGTH BOLT (A325)	WP	WORK POINT
HSS	HOLLOW STRUCTURAL SECTION	WRT	WITH RESPECT TO
IBC	INTERNATIONAL BUILDING CODE	WS	WOOD SCREW
ICC	INTERNATIONAL CODE COUNCIL	WT	WEIGHT / STRUCTURAL TEE
ID	INSIDE DIAMETER	WWF	WELDED WIRE FABRIC
IN (")	INCH		
INFO	INFORMATION		
INTR	INTERIOR		

CONCRETE:

1. CONCRETE CONSTRUCTION SHALL CONFORM TO THE CODE PER GENERAL NOTES.
2. CONCRETE SHALL BE PLACED IN ACCORDANCE WITH TITLE 24 AND ASTM C94 AND ACI STANDARD 304. IN ADDITION, MAXIMUM FREE FALL OF CONCRETE SHALL BE 4' - 0".
3. ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED BY MECHANICAL VIBRATORS DURING PLACEMENT AND SHALL BE THOROUGHLY WORKED AROUND REINFORCEMENT AND EMBEDDED FIXTURES AND INTO CORNERS OF FORMS.
4. THE MINIMUM 28 DAY STRENGTH SHALL BE PER MIX DESIGN SCHEDULE.
5. CEMENT SHALL CONFORM TO ASTM C150, TYPE I OR II.
6. CONCRETE AGGREGATES: NATURAL SAND AND ROCK AGGREGATES SHALL CONFORM TO ASTM C33.
7. MINERAL ADMIXTURES SHALL COMPLY WITH ASTM C618.
8. LIQUID ADMIXTURES SHALL COMPLY WITH THE FOLLOWING:
   A. WATER REDUCERS .... ASTM C494 TYPE A
   B. MID-RANGE WATER REDUCERS .... ASTM C494 TYPE A & F
   C. NON-CHLORIDE ACCELERATORS .... ASTM C494 TYPE C OR C & E
   D. RETARDING ADMIXTURES .... ASTM C494 TYPE B OR B & D
9. GENERAL:
   A. NO PIPES OR DUCT SHALL BE PLACED IN CONCRETE SLABS OR WALLS UNLESS SPECIFICALLY DETAILED.
   B. REFER TO ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DRAWINGS FOR ALL MOULDS, GROOVES, ORNAMENTS, CLIPS, ETC. TO BE CAST IN CONCRETE.
10. ALL CONSTRUCTION JOINTS SHALL BE MADE ROUGH IN ACCORDANCE WITH CODE SECTION 1906.4 AND THE TYPICAL CONSTRUCTION JOINT DETAILS SHOWN ON THE STRUCTURAL DRAWINGS. ALL SURFACES OF CONSTRUCTION JOINTS SHALL BE CLEANED TO REMOVE LAITANCE, DUST, CHIPS, OR OTHER FOREIGN MATTER PRIOR TO PLACING THE ADJACENT CONCRETE.
11. REMOVE ALL DEBRIS AND EXCESS WATER FROM THE FORMS BEFORE PLACING ANY CONCRETE.
12. REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC. TO BE EMBEDDED IN CONCRETE SHALL BE SECURELY POSITIONED AND FREE OF EXCESSIVE SCALE, RUST, DIRT, GREASE, OIL OR ANY OTHER SUBSTANCES THAT WILL IMPAIR BOND WITH CONCRETE. OBTAIN APPROVAL OF ALL AFFECTED TRADES PRIOR TO PLACING CONCRETE.
13. NO WOOD SPREADERS ALLOWED. NO WOOD STAKES ALLOWED IN AREAS TO BE CONCRETED.
14. CONTRACTOR SHALL PREPARE AND SUBMIT CONCRETE MIX DESIGNS FOR ELEVATOR PIT AND EQUIPMENT ROOM SLAB TO THE ARCHITECT OF RECORD FOR REVIEW PRIOR TO PLACEMENT OF ANY CONCRETE. CONCRETE MIX DESIGNS SHALL BE PER CBC SECTION 1905A. CALCIUM CHLORIDE OR ADMIXTURES WHICH ADD CHLORIDES ARE NOT PERMITTED.
15. SEE REINFORCING STEEL NOTES FOR REINFORCING STEEL REQUIREMENTS.
16. GROUT MIX AT CORNER BASE PLATES SHALL BE AS PER MANUFACTURER'S SPECIFICATIONS (6000 PSI MIN).

MIX DESIGN SCHEDULE

TYPE	USE CLASS	STRENGTH " f'c " MIN @ 28 DAYS (PSI)	CONCRETE UNIT WEIGHT (PCF)	MAX AGGREGATE SIZE (IN)	MAX (5) SLUMP (IN)	MAX WATER TO CEMENT RATIO (%)	FLY ASH (7) REPLACEMENT (%)
A	SLAB ON GRADE	3000	150	1"±1/4"	4"±1"	.40	15% MIN 25% MAX
B	FOUNDATIONS	3000	150	1"±1/4"	4"±1"	.50	15% MIN 25% MAX
C	WALLS	3000	150	1"±1/4"	4"±1"	.50	15% MIN 25% MAX

FOOTNOTES:
1. ADD WATER REDUCING ADMIXTURES PER SPECIFICATIONS FOR PLACING.
2. FOR HOT WEATHER CONCRETING REFER TO ACI 305R.
3. FOR COLD WEATHER CONCRETING REFER TO ACI 306R.
4. OTHER ADMIXTURES SHALL BE REVIEWED BY THE ENGINEER OF RECORD AND TESTING LABORATORY UPON CONCRETE MIX DESIGN SUBMITTAL.
5. SLUMPS SHALL NOT EXCEED 8"± 1-1/2" WHEN USING MID-RANGE WATER REDUCERS.
6. ADDITIONAL WATER SHALL NOT BE ADDED TO THE CONCRETE ONCE THE TRUCK LEAVES THE BATCH PLANT.
7. MIX DESIGN SHALL NOT BE PROPORTIONED WITHOUT FIELD EXPERIENCE OR TRIAL MIXTURES PER ACI 318 SECTION 5.4 WHEN USING MORE THAN 15% FLY ASH REPLACEMENT BY WEIGHT.

COLD-FORMED STEEL FRAMING

1. ALL 43 MIL AND 33 MIL STUDS SHALL BE 33,000 PSI MIN. YIELD STRESS STEEL OF STANDARD STRUCTURAL QUALITY. ALL OTHER MATERIAL SHALL BE 50,000 PSI MIN YIELD STRESS.
2. COLD-FORMED STEEL SECTIONS SHALL CONFORM WITH THE REQUIREMENTS OF ASTM A653 SS GRADE 33 OR GRADE 50.
3. ALL MEMBERS SHALL BE CUT SQUARELY OR AS REQUIRED, FITTED AND SEATED PROPERLY TO ABUTTING MEMBERS. STUDS SHALL BE PLUMBED, ALIGNED AND SECURELY ATTACHED AT FLANGES OR WEBS OF TRACKS.
4. PROVIDE ALL ACCESSORIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, TRACKS, CLIPS, WEB STIFFENERS, ANCHORS, FASTENING DEVICES, RESILIENT CLIPS, AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, AND AS RECOMMENDED BY THE MANUFACTURER FOR THE STEEL MEMBERS USED.
5. FASTENING OF COMPONENTS SHALL BE WITH TEK SCREWS OR EQUIVALENT SELF-DRILLING, SELF-TAPPING SCREWS OR WELDING. SCREWS OR WELD SIZES SHALL BE SHOWN ON THE DRAWINGS.
6. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS AND IN ACCORDANCE WITH THE LATEST EDITION OF AWS D1.3.
7. STUD AND TRACK DESIGNATIONS ARE BASED ON STEEL STUD MANUFACTURER'S ASSOCIATION, ICC-ES EVALUATION REPORT ESR-3064P.
8. SEE ICC-ES EVALUATION REPORT ER-4943P FOR TYPICAL STEEL STUD INSTALLATION.
9. FOR STUD SIZE AND LOCATION, SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
10. PUNCH-OUT WEB SECTIONS SHALL NOT BE WITHIN 12" OF THE END OF A COLD-FORMED STEEL MEMBER SUCH AS, BUT NOT LIMITED TO, STUDS OR JOISTS.
11. GAUGE DESIGNATIONS OF PLATES, STRAPS, TRACKS, STUDS AND ANGLES ARE MINIMUMS. THICKER GAUGE ELEMENTS MAY BE USED.
12. SHEET METAL SCREW (SMS) SIZES ARE MINIMUMS. LARGER SCREW SIZES MAY BE USED.

FOUNDATIONS: (BY GENERAL CONTRACTOR)

1. FOUNDATION DESIGN IS BASED ON SOIL STRATA THAT IS UNDISTURBED, NON-ORGANIC NATIVE SOIL, CLASS 5 (CODE MINIMUM WITHOUT SOILS REPORT) AS PER CBC CHAPTER 18A AND TABLE 1806A.2, WITH A NET BEARING CAPACITY OF 1500 PSF AT 12" BELOW GRADE. FOUNDATIONS SHALL BEAR ON FIRM FOUNDATION SOIL STRATA AS APPROVED BY THE BUILDING OFFICIAL. EXPANSIVE, ORGANIC, LOOSE OR SOFT SOILS SHALL NOT BE UTILIZED FOR SUPPORT OF FOOTINGS OR SLABS ON GRADE. THE ENGINEER IS NOT RESPONSIBLE FOR SETTLEMENT DUE TO SOFT SOILS OR EFFECTS DUE TO EXPANSIVE SOILS. IT IS THE OWNER'S RESPONSIBILITY TO INSURE COMPLIANCE WITH THESE REQUIREMENTS.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SHORE AND BRACE AS REQUIRED. SEE SAFETY NOTES FOR ADDITIONAL INFORMATION.
3. ALL FOUNDATIONS ARE SHOWN AND DIMENSIONED AS BEING FORMED. FOUNDATIONS MAY BE PLACED IN NEAT EXCAVATIONS PROVIDED FOOTINGS ARE INCREASED 2" IN WIDTH, SEE TYPICAL EXCAVATION DETAIL 11/S3.1A.
4. EXCAVATIONS SHALL BE CLEANED OF ALL DEBRIS AND LOOSE SOIL. STANDING WATER SHALL BE REMOVED PRIOR TO CONCRETE PLACEMENT.
5. BOTTOMS OF ALL FOUNDATIONS SHALL BE LEVEL.
6. CONTRACTOR SHALL CHECK FOOTING FORMS TO VERIFY THAT THEY SQUARE & PLUMB. THE CONTRACTOR SHALL ALSO VERIFY THAT ALL INSERTS & EMBEDS ARE IN THEIR CORRECT LOCATION & ORIENTATION PRIOR TO PLACING CONCRETE.
7. FOR FOUNDATION CONDITIONS NOT SHOWN ON THESE PLANS, THE FOUNDATIONS MAY BE DESIGNED BY THE ENGINEER OF RECORD AND APPROVED BY DSA. ALLOWABLE BEARING AND SLIDING VALUES MAY BE USED FROM A SOILS REPORT IF PROVIDED, OR PER CBC CHAPTER 18A AND TABLE 1806A.2 IF NO SOILS REPORT IS PROVIDED.

REINFORCING STEEL:

1. REINFORCING SHALL CONFORM TO ASTM A615 - GRADE 60 UNO.
2. NO REINFORCING BARS ARE TO BE WELDED UNLESS SPECIFICALLY DETAILED IN CONTRACT DOCUMENTS. ALL BARS SO DETAILED TO BE WELDED SHALL BE ASTM A706 BARS.
3. ALL REBAR TO BE WELDED SHALL BE CONTINUOUSLY INSPECTED BY A QUALIFIED TESTING LABORATORY. CONTRACTOR MUST FURNISH TO THE LABORATORY MILL CERTIFICATES SHOWING CHEMICAL ANALYSIS. ALL PREHEATING AND WELDING SHALL BE DONE BY WELDERS CERTIFIED TO WELD REINFORCING BARS IN ACCORDANCE WITH AWS D1.4-05 STANDARDS.
4. E80xx ELECTRODE SHALL BE USED FOR ALL REBAR WELDING.
5. TACK WELDING TO REBAR IS STRICTLY PROHIBITED.
6. WIRE FABRIC SHALL CONFORM TO ASTM A185. WELDED WIRE FABRIC SHALL BE LAP SPLICED TWO SQUARES MIN EACH DIRECTION.
7. REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND INSTALLED IN ACCORDANCE WITH ACI 315.
8. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:
   A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH .... 3"
   B. CONCRETE EXPOSED TO EARTH OR WEATHER, BUT PLACED IN FORMS .... 2"
   C. SLAB (ON GROUND) .... POSITION IN CENTER OF SLAB, UNO.
9. REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC. TO BE EMBEDDED SHALL BE SECURELY POSITIONED BEFORE PLACING CONCRETE. OBTAIN APPROVAL OF ALL AFFECTED TRADES PRIOR TO PLACING CONCRETE.
10. A. ALL BARS SHALL HAVE A CLASS B MINIMUM SPLICE LAP UNLESS OTHERWISE NOTED. SEE REINFORCEMENT LAP SPLICES TABLE.
    B. DOWEL ALL VERTICAL REINFORCING IN WALLS AND COLUMNS FROM FOUNDATION WITH THE SAME SIZE REINFORCING. UNO.

REINFORCEMENT LAP SPLICE LENGTHS (IN INCHES)

f 'c = 3000 PSI AT 28 DAYS										
SPLICE CLASS	REINFORCEMENT LOCATION	REINFORCEMENT SIZE (GR60, UNO)								
		#3	#4	#5	#6	#7	#8	#9	#10	#11
A	TOP	21	28	36	43	62	71	80	89	98
	OTHER	16	22	27	33	48	55	62	68	75
B	TOP	28	37	46	56	81	93	104	118	131
	OTHER	21	28	36	43	62	71	80	91	101

FOOTNOTES:
1. TABLE ABOVE BASED ON UNCOATED REINFORCING.
2. TOP REINFORCING IS HORIZONTAL REINFORCEMENT THAT HAS MORE THAN TWELVE INCHES OF FRESH CONCRETE CAST BELOW IT.
3. FOR BARS WITH COVER LESS THAN 1 BAR DIAMETER OR WITH CLEAR SPACING LESS THAN 2 BAR DIAMETERS, INCREASE LAP SPLICE BY 100%

STRUCTURAL STEEL:

1. FABRICATION, ERECTION AND MATERIALS SHALL CONFORM WITH THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND 2019 CBC.
2. STRUCTURAL STEEL SHAPES AND CONNECTORS SHALL CONFORM TO THE FOLLOWING:
   A. TUBE STEEL (UNO) .... ASTM A500, GRADE B (Fy = 46 KSI)
   B. PIPE COLUMNS .... ASTM A53, TYPES E OR S, GRADE B (Fy = 35 KSI)
   C. ANGLES, CHANNELS, BARS & MISCELLANEOUS SHAPES .... SHALL BE GRADE 50
   D. PLATES .... ASTM A529, A572 OR A1011, GRADE 50
   E. MACHINE BOLTS .... ASTM A307
   F. HIGH STRENGTH BOLTS (HSB) .... ASTM A325-N UNO
   G. HARDENED STEEL WASHERS .... ASTM F436
   H. ANCHOR BOLTS .... ASTM F1554 GRADE 105 UNO (HEAD OR LOCKNUT)
3. SPLICING STRUCTURAL MEMBERS WHERE NOT DETAILED ON THE DRAWING IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER AND DSA.
4. EXCEPT AS OTHERWISE NOTED, ALL BOLTS SHALL BE MACHINE BOLTS.
5. FOR ALL HIGH STRENGTH BOLTS, HARDENED WASHERS SHALL BE PROVIDED UNDER THE TURNING ELEMENT OF BOLT FOR TORQUING AS REQUIRED.
6. HOLES FOR MACHINE BOLTS SHALL BE DRILLED AND OF THE SAME NOMINAL DIAMETER AS THE BOLT PLUS 1/16".
7. COLUMN BASE PLATE ANCHOR BOLT HOLES MAY BE OVERSIZED IN ACCORDANCE WITH AISC 360 AND TABLE 14-2 OF THE 15TH EDITION OF THE STEEL CONSTRUCTION MANUAL, WITH HEAVY HEX NUTS OR PLATE WASHERS UNDER BASE PLATE.
8. USE STANDARD AISC GAGE AND PITCH FOR BOLTS EXCEPT AS OTHERWISE NOTED.
9. "SLIP-CRITICAL" BOLTED CONNECTIONS:
   A. "SLIP-CRITICAL" CONNECTIONS (A325SC DESIGN VALUES WITH SPECIAL INSPECTION) ARE REQUIRED WHERE INDICATED.
   B. THE SPECIAL INSPECTOR MUST BE PRESENT DURING THE ENTIRE INSTALLATION AND TIGHTENING OPERATION OF "SLIP CRITICAL" CONNECTIONS.
10. ALL WELDING IS TO BE DONE BY CERTIFIED WELDERS USING E70XX ELECTRODES, UNO. ER705-6 WELDING WIRE MAY BE USED FOR NON-FULL PENETRATION WELDS, THE USE OF E70-T4 WELDING WIRE IS NOT ALLOWED FOR ANY APPLICATION. ALL WELDS SHALL BE IN CONFORMITY WITH THE PROJECT SPECIFICATIONS AND STRUCTURAL WELDING CODE- STEEL OF THE AMERICAN WELDING SOCIETY (AWS D1.1: D1.8 LATEST REVISION). SEE SITE SPECIFIC DSA FORM 103 FOR WELDING INSPECTION REQUIREMENT. SUBMIT ALL WELDING PROCEDURES AND SPECIFICATIONS TO ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO BEGINNING FABRICATION.
11. WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM SIZE WELDS AS SPECIFIED IN AISC 360-16, SECTION J2.2b.
12. PROVIDE 3" MINIMUM CONCRETE COVERAGE ON ALL STEEL BELOW GRADE.
13. ALL STRUCTURAL STEEL SHALL BE ERECTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AND SHALL BE LEFT IN PLACE UNTIL OTHER MEANS ARE PROVIDED TO ADEQUATELY BRACE THE STRUCTURE.
14. NON-SHRINK GROUT: A PRE-MIXED NON-METALLIC FORMULA WITH NO CHLORIDES HAVING THE FOLLOWING CHARACTERISTICS:
   A. FLOWABLE MIX AT TIME OF PLACEMENT
   B. NO SHRINKAGE AFTER PLACEMENT
   C. COMPRESSIBLE STRENGTH OF 5000 PSI (MINIMUM) AT 7 DAYS
   D. CONFORMS TO ASTM C1107 (GRADE C)
15. TEMPORARILY STABILIZE ELEVATOR HISTORY TO PREVENT LATERAL DISPLACEMENT BEFORE ADDING VERTICAL LOAD. PLACE NON-SHRINK GROUT (EMBCO 636, RAPIDEST CEMENTALL OF APPROVED EQUAL) UNDER ALL BASE PLATES AND ALLOW TO SET PER MANUFACTURER'S RECOMMENDATIONS BEFORE REMOVING LATERAL STABILIZATION.
16. THICKNESS DIMENSIONS OF HSS ARE MINIMUMS. THICKER HSS MEMBERS UP TO 1/2" MAXIMUM MAY BE USED.

GENERAL NOTES

1. ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
2. TYPICAL NOTES AND DETAILS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON DRAWINGS.
3. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR SIMILAR CONDITION.
4. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE 2019 CALIFORNIA BUILDING CODE, TITLE 24 C.C.R. WITH LATEST REVISIONS AND REFERRED TO HERE AS "THE CODE", AND OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.
5. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK. IF CONFLICTS OCCUR BETWEEN DRAWINGS AND SPECIFICATIONS, THE MOST EXPENSIVE MATERIALS OR METHODS SHALL PREVAIL. STRUCTURAL ENGINEER SHALL BE NOTIFIED OF CONFLICTS AND THAT PORTION OF WORK SHOULD NOT PROCEED UNTIL CONFLICT IS RESOLVED.
6. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.
7. ASTM SPECIFICATIONS ON THE DRAWINGS SHALL BE OF THE LATEST REVISION.
8. CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED ROOF OR FLOOR. LOAD SHALL NOT EXCEED DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND / OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.
9. HEAVY EQUIPMENT, CRANES AND MATERIAL STOCKPILES SHALL NOT BE LOCATED ON OR ADJACENT TO SHORING.
10. SUBSTITUTIONS FOR STRUCTURAL MEMBERS, HARDWARE, OR DETAILS SHALL BE REVIEWED BY THE ARCHITECT AND STRUCTURAL ENGINEER AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT. FOR A SUBSTITUTION TO BE REVIEWED THE CONTRACTOR SHALL AGREE & COMPLY WITH THE FOLLOWING:
    A. THE CONTRACTOR SHALL BE BILLED ON A TIME AND MATERIALS BASIS FOR THE REVIEW OF THE SUBSTITUTION WITH NO GUARANTEE OF APPROVAL.
    B. VERIFY THAT THE SUBSTITUTION DOES NOT AFFECT DIMENSIONS SHOWN ON DRAWINGS.
    C. THE CONTRACTOR SHALL ALSO PAY FOR CHANGES TO DESIGN, WHICH INCLUDES BUT IS NOT LIMITED TO; ENGINEERING DESIGN, DETAILING, APPROVAL AGENCY PROCESS AND CONSTRUCTION COST CAUSED BY THE REQUESTED SUBSTITUTION.
    D. THE PROPOSED SUBSTITUTION IS TO HAVE NO ADVERSE AFFECT ON OTHER TRADES, THE CONSTRUCTION SCHEDULE, OR THE SPECIFIED WARRANTY REQUIREMENTS.
11. NO STRUCTURAL MEMBERS SHALL BE CUT, NOTCHED OR OTHERWISE PENETRATED UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER AND DSA IN ADVANCE OR SHOWN ON THESE DRAWINGS.
12. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. DIMENSIONS AND ELEVATIONS MUST BE VERIFIED WITH ARCHITECTURAL DRAWINGS. IN THE EVENT OF A CONFLICT, THE STRUCTURAL ENGINEER AND ARCHITECT ARE TO BE NOTIFIED IMMEDIATELY. DRAWING SCALES GIVEN ARE APPROXIMATE - DO NOT SCALE PLANS OR DETAILS.
13. SITE VISITS BY STRUCTURAL ENGINEER SHALL NOT BE IN LIEU OF INSPECTIONS.
14. SEE ARCHITECTURAL DRAWINGS FOR FOLLOWING:
    - SIZE AND LOCATION OF ALL DOOR OPENINGS.
    - SIZE AND LOCATION OF ALL CONCRETE CURBS, EQUIPMENT PADS, PITS, FLOOR DRAINS, SLOPES AND DEPRESSED AREAS, CHANGE IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC.
    - FLOOR AND ROOF FINISHES.
    - DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
15. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THE FOLLOWING:
    - PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENING, ETC EXCEPT AS SHOWN OR NOTED.
    - ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALL OR SLABS.
    - CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES.
    - SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES AND ANCHOR BOLTS FOR MOTOR MOUNTS.
16. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATION SHALL BE MADE BY AN ADDENDUM OR A CHANGE ORDER/CONSTRUCTION CHANGE DIRECTIVE APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
17. INSTALLATION MUST COMPLY WITH REQUIREMENTS OF CBC CHAPTER 30 INCLUDING, BUT NOT LIMITED TO:
    - 3002.3 - EMERGENCY SIGNS
    - 3002.4.4A - ELEVATOR RECALL
    - 3002.4.5-7A - SIGNAGE
    - 3002.4 - ELEVATOR TO ACCOMMODATE AMBULANCE STRETCHER
    - 3002.5 - EMERGENCY DOORS
    - 3003 - EMERGENCY OPERATIONS
    - 3006 - MACHINE ROOMS

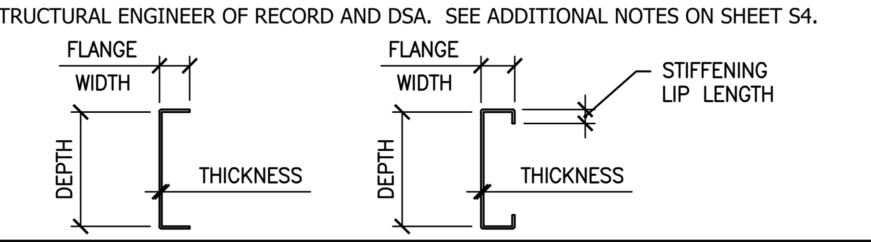
LICENSED ARCHITECT MARK EDWARD BARNES C-20138 REN. 03-31-23 STATE OF CALIFORNIA

SAFETY NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
2. THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
3. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING FOR VERTICAL AND / OR LATERAL LOADS, SHORING AND LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER WILL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

CLADDING:

THE DESIGNS OF THE STRUCTURAL SYSTEMS FOR THESE ELEVATORS BASED ON A MAXIMUM TOTAL WEIGHT FOR EXTERIOR CLADDING OF 400 LBS PER VERTICAL FOOT OF THE ENTIRE SHAFT FOR ALL MATERIALS EXTERIOR OF THE EXTERIOR SURFACE OF WALL STUDS AND CORNER COLUMNS, INCLUDES WEIGHT OF WALL STUDS, COLUMNS, HORIZONTAL BEAMS, 2- LAYERS OF ⅝" GYPSUM WALL BOARD INSIDE AND OUTSIDE AND EXTERIOR ARCHITECTURAL FINISH. IF ANY COMBINATION OF TOTAL EXTERIOR CLADDING WEIGHTS EXCEEDS 400 LBS PER VERTICAL FOOT BY MORE THAN 40 LBS PER VERTICAL FOOT OF THE SHAFT, THE STRUCTURAL DESIGN OF THE ELEVATOR SHAFT STRUCTURAL SYSTEM AND FOUNDATION MUST BE REVIEWED BY THE MEM STRUCTURAL ENGINEER OF RECORD AND DSA. SEE ADDITIONAL NOTES ON SHEET S4.



STRUCTURAL SECTION PROPERTIES

SSMA DESIGNATION	GAUGE	Fy (KSI)	FLANGE WIDTH (in)	DESIGN THICKNESS (in)	INSIDE RADII (in)	DEPTH (in)	STIFFENING LIP LENGTH (in)	GROSS A (in^2)	EFFECTIVE Sx (in^3)	EFFECTIVE Ix (in^4)	INTENDED USE
350S162-43	18	33	1 5/8"	0.0451	0.0712	3 1/2	0.5	0.334	0.357	0.654	STUDS
350S162-54	16	50	1 5/8"	0.0566	0.0849	3 1/2	0.5	0.415	0.426	0.804	STUDS
350S162-68	14	50	1 5/8"	0.0713	0.1069	3 1/2	0.5	0.515	0.549	0.985	STUDS
362S162-43	18	33	1 5/8"	0.0451	0.0712	3 5/8	0.5	0.340	0.372	0.710	STUDS
362S162-54	16	50	1 5/8"	0.0566	0.0849	3 5/8	0.5	0.415	0.426	0.804	STUDS
362S162-68	14	50	1 5/8"	0.0713	0.1069	3 5/8	0.5	0.422	0.576	0.873	STUDS
400S162-43	18	33	1 5/8"	0.0451	0.0712	4	0.5	0.357	0.417	0.892	STUDS
400S162-54	16	50	1 5/8"	0.0566	0.0849	4	0.5	0.443	0.498	1.098	STUDS
400S162-68	14	50	1 5/8"	0.0713	0.1069	4	0.5	0.550	0.648	1.346	STUDS
350T150-43	18	33	1 1/2"	0.0451	0.0712	3 1/2	N/A	0.293	0.243	0.531	TRACK OR JOIST
350T150-54	16	50	1 1/2"	0.0566	0.0849	3 1/2	N/A	0.367	0.332	0.712	TRACK OR JOIST
350T150-68	14	50	1 1/2"	0.0713	0.1069	3 1/2	N/A	0.462	0.459	0.957	TRACK OR JOIST
362T150-43	18	33	1 1/2"	0.0451	0.0712	3 5/8	N/A	0.298	0.255	0.574	TRACK OR JOIST
362T150-54	16	50	1 1/2"	0.0566	0.0849	3 5/8	N/A	0.374	0.349	0.769	TRACK OR JOIST
362T150-68	14	50	1 1/2"	0.0713	0.1069	3 5/8	N/A	0.471	0.449	0.993	TRACK OR JOIST
400T150-43	18	33	1 1/2"	0.0451	0.0712	4	N/A	0.315	0.293	0.719	TRACK OR JOIST
400T150-54	16	50	1 1/2"	0.0566	0.0849	4	N/A	0.396	0.399	0.960	TRACK OR JOIST
400T150-68	14	50	1 1/2"	0.0713	0.1069	4	N/A	0.498	0.513	1.237	TRACK OR JOIST

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

PRE-CHECK (PC) DOCUMENTS
2019 CBC CODE
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

S.E. PC APPROVAL

REGISTERED PROFESSIONAL ENGINEER MANNY D. FRISCH No. S3380 STRUCTURAL STATE OF CALIFORNIA

10/28/2021

MODULAR ELEVATOR MANUFACTURING, INC.
P.O. BOX 3998
CHATSWORTH, CA. 91313
800-755-9359

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-119748 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/28/2021

MEM INC
MODULAR ELEVATOR MANUFACTURING

THIS INFORMATION IS CONFIDENTIAL AND REMAINS THE PROPERTY OF MODULAR ELEVATOR MANUFACTURING, INC. ITS USE, REPRODUCTION OF, OR DESSEMINATION WITHOUT THE EXPRESS PERMISSION OF MODULAR ELEVATOR MANUFACTURING, INC. IS STRICTLY PROHIBITED.

PROJECT NO:	19835
DATE:	09/15/2021
ENGINEERED BY:	KAL
DRAWN BY:	MTC

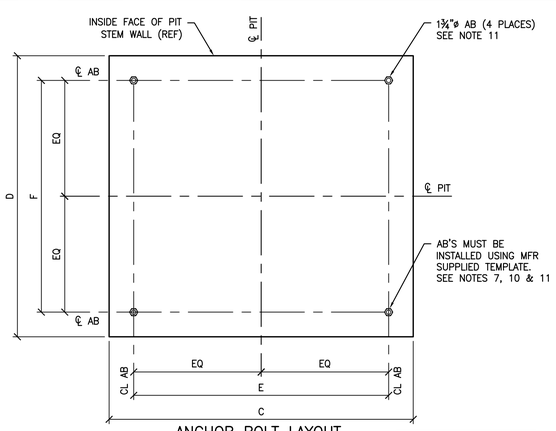
NO.	DATE	REVISION

GENERAL NOTES AND ABBREVIATIONS

SHEET NO:

S2

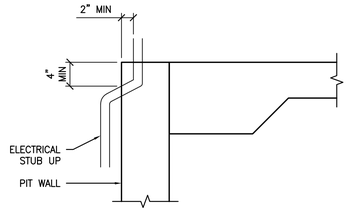
L:\Jobs19\19835 MEM 2019 CBC PC\ACAD\STRU\S2_2019 CBC PC.dwg Time:Sep15,2021−04:58pm Login:FalkR Dimscale:1 LTScale:0.5



ANCHOR BOLT LAYOUT PLAN

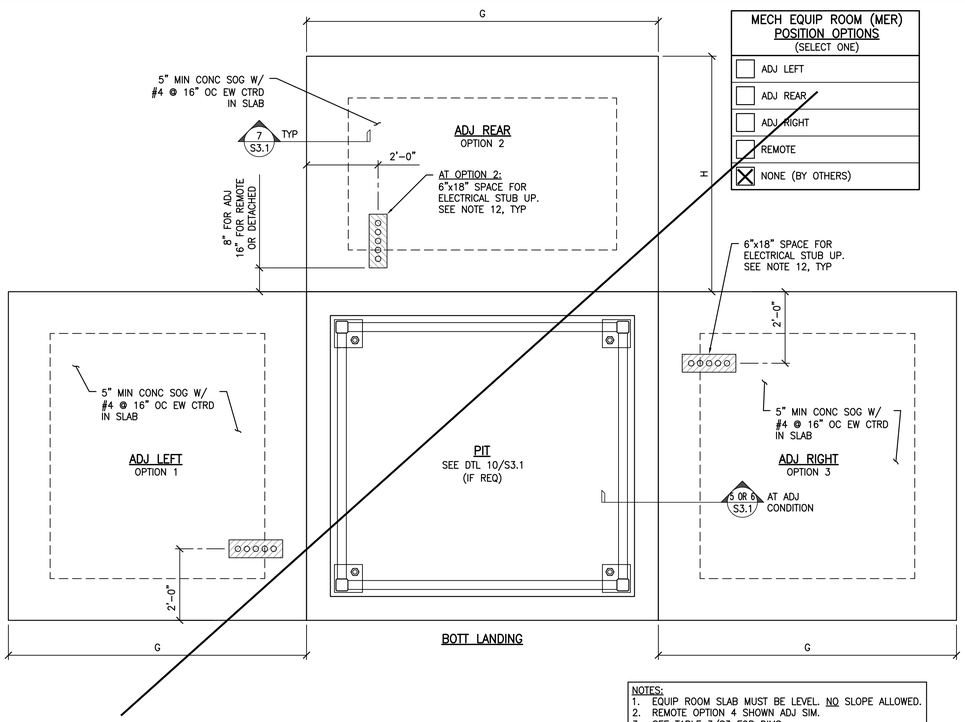
5 / S3 NTS

NOTE: SEE TABLE 2/S3 FOR DIMS.



ELECTRICAL STUB UP (PARTIAL MER) DETAIL

4 / S3 NTS



MECH EQUIP ROOM (MER) POSITION OPTIONS (SELECT ONE)
☐ ADJ LEFT
☐ ADJ REAR
☐ ADJ RIGHT
☐ REMOTE
☒ NONE (BY OTHERS)

NOTES:
1. EQUIP ROOM SLAB MUST BE LEVEL. NO SLOPE ALLOWED.
2. REMOTE OPTION 4 SHOWN ADJ SIM.
3. SEE TABLE 3/S3 FOR DIMS.
4. SEE DTL 1/S6A FOR EQUIP ROOM PLAN.

EQUIPMENT ROOM SLAB LOCATION PLAN

2 / S3 NTS

HOISTWAY SELECTION (SELECT ONE HOISTWAY & ONE ELEVATOR MODEL)			
HOISTWAY SIZE (APPROX INSIDE CLR)	☐ HW-1 7'-6"W x 6'-10"D	☒ HW-2 8'-6"W x 6'-10"D	☐ HW-3 9'-2 ½"W x 6'-10"D
ELEVATOR MODEL R = REVERSE OPG G = CBC 2019 GURNEY COMPLIANT	☐ 2000R	☐ 2500R	☐ 3000 R/G
	☐ 2500	☐ 3000	☐ 3500 G
		☒ 3500 G	☐ 4000 G

REFERENCE TABLE 1, 1/VT/3 FOR ELEVATOR SIZES

TABLE 1 – PIT SLAB DIMS

SOIL PROPERTIES		REQ DIMS	
ALLOWABLE* NET BEARING PRESSURE AT 12" (PSF)	ALLOWABLE* PASSIVE PRESSURE (PCF)	A	B
		☒ 44'-0" HOISTWAY HT	
☐ 1500 (1)	100	16'-4"	16'-8"
☒ 2000 (2)	150	15'-6"	15'-6"
☐ 3000 (2)	200	15'-0"	15'-6"
☐ 4000 (2)	400	14'-6"	15'-0"

* BASIC UNFACTORED ALLOWABLE VALUE AT 12" MIN DEPTH BLW UNDISTURBED GROUND SURFACE
(1) VALUE ALLOWED FOR DEAD + LIVE LOADS IF NO SOILS REPORT
(2) VALUE ALLOWED FOR DEAD + LIVE LOADS WHEN JUSTIFIED BY A SOIL REPORT

TABLE 2 – PIT DIMS & AB LOCATIONS

DIMS	DESCRIPTION	☐ HW-1	☒ HW-2	☐ HW-3
C	CLEAR PIT	8'-6"	9'-6"	10'-2"
D	CLEAR PIT	7'-10 1/4"	7'-10 1/4"	7'-10 1/4"
E	AB	7'-1 1/2"	8'-1 1/2"	8'-9 1/2"
F	AB	6'-5 3/4"	6'-5 3/4"	6'-5 3/4"

TABLE 3 – EQUIP ROOM SLAB DIMS

POSITION	☐ OPT 1 SIDE / ☐ OPT 3 SIDE	☐ OPT 2 REAR NOTE: FOR REMOTE EQUIP ROOM, ADD 5" TO "H" DIM"			☐ OPT 4 REMOTE
	ALL	☐ HW-1	☐ HW-2	☐ HW-3	ALL (MIN)
G	8'-4"	9'-10"	10'-10"	11'-6"	8'-4"
H	9'-0"	7'-6 ⅞"	7'-6 ⅞"	7'-6 ⅞"	7'-9"

TABLE 3A – PARTIAL EQUIP ROOM SLAB DIMS

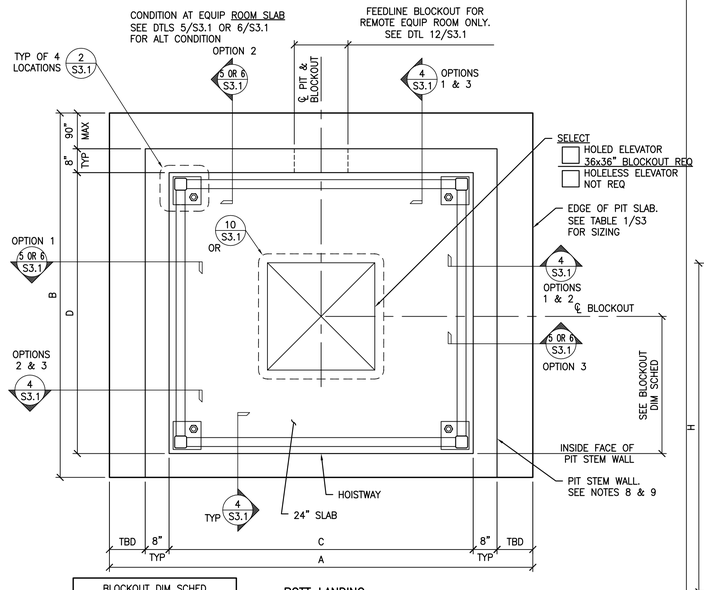
POSITION	☐ OPT 1 SIDE / ☒ OPT 3 SIDE	☐ OPT 2 REAR NOTE: FOR REMOTE EQUIP ROOM, ADD 5" TO "H" DIM"			
	ALL	☐ HW-1	☒ HW-2	☐ HW-3	
G	5'-8"	5'-8"	5'-8"	5'-8"	
H	9'-0"	9'-10"	10'-10"	11'-6"	

TABLE 4A –POST-INSTALLED ANCHORS TO CONC

MFR	ANCHOR TYPE	ANCHOR DIA (IN)	MIN EFFECTIVE EMBEDMENT (IN)[1,4]	MIN NOMINAL EMBEDMENT (IN)	MIN EDGE/END DISTANCE (IN)[2]	INSTALLATION TORQUE (FT-#)[1]	NOMINAL APPLIED SHEAR LOAD[3]	ICC-ES ESR
HILTI	KB-TZ2	3/8	2	2 1/2	4	30	200	4266
HILTI	KB-TZ2	5/8	4	4 1/2	7	40	200	4266
HILTI	KH-EZ	3/8	2.5	3 1/4	4	40	200	3027
HILTI	KH-EZ	5/8	3.88	5	7	85	200	3027
SIMPSON STRONGTIE	STRONG-BOLT 2	3/8	2 1/2	2 7/8	4	30	200	3037
SIMPSON STRONGTIE	STRONG-BOLT 2	5/8	4 1/2	5.125	7	80	200	3037
SIMPSON STRONGTIE	TITEN HD	3/8	2.4	3 1/4	4	50	200	2713
POWERS	POWER-STUD+SD1	3/8	2	2 3/8	4	20	200	2818
POWERS	POWER-STUD+SD1	5/8	4	4 5/8	7	80	200	2818

1. PER ICC-ES ESR.
2. PER DESIGN DWGS, NOT ICC-ES ESR.
3. APPLIED TOWARDS NEAREST FREE EDGE OF CONC.
4. APPLIED TOWARDS NEAREST FREE EDGE OF CONC SUBSTRATE IS SUFFICIENTLY THK WRT THE ANCHOR EMBEDMENT SO AS NOT TO BE INFLUENCE TO THE CONN.

NOTES:
1. FDN CONSTR TO BE PERFORMED BY OTHERS & IS NOT PART OF THE ELEVATOR CONTRACTOR'S WORK.
2. EQUIP ROOM IS OPTIONAL & MAY BE PROVIDED BY OTHERS.
3. GROUNDING OF STRUCTURES BY OTHERS.
4. EQUIP ROOM SLAB MAY EXTEND BEYOND DIMS SHOWN. THICKENED FTGS BLW EQUIP ROOM WALLS TO CONFORM TO DIMS SHOWN ON DTL 7/S3.1.
5. PIT SLAB MAY EXTEND BYD EXTR FACE OF WALL ON SIDES SHOWN, SEE TABLE 1 ON SHT S3 FOR SLAB SIZE.
6. ARCH OR SEOR TO DETERMINE IF SOIL NET BRG PRESSURES GREATER THAN 1500 PSF (UNFACTORED) & LATERAL PASSIVE RESISTANCE PRESSURES GREATER THAN 100 PCF (UNFACTORED) ARE ALLOWABLE. PIT SLAB AS SHOWN IN TABLE 1 ON SHT S3 FOR 1500 PSF BRG PRESSURE & 100 PCF PASSIVE PRESSURE SHALL BE USED IF AN ACCEPTABLE SOIL INVESTIGATION REPORT IS NOT AVAILABLE THAT RECOMMENDS GREATER SOIL RESISTANCE VALUES.
7. AB TEMPLATE MUST BE PROVIDED BY ELEVATOR CONTRACTOR. RESPONSIBILITY FOR PROPER AB PLACEMENT IS BY OTHERS.
8. PIT STEM WALLS MAY BE POSITIONED TO SUIT JOB SITE CONDITIONS AT ANY POSITION WITHIN THE CONFINES OF THE PIT SLAB.
9. FLUSH PIT SLAB TO STEM WALL CONDITION MAY OCCUR AT ANY WALL. MAX CONDITION MAY OCCUR ON TWO WALLS.
10. AB TEMPLATE TO BE CTRD IN PIT.
11. TIE BOTT OF AB'S TO REBAR PRIOR TO POURING SLAB TO MAINTAIN PLUMB.
12. POSITION STUB UP NEXT TO WALL THAT WILL BE ADJ TO THE HOISTWAY. FOR REMOTE MACHINE ROOM, POSITION NEXT TO WALL OPP MACHINE ROOM DOOR. SEE DTL 12/S3.1 FOR FEEDLINE BLOCKOUT.
13. ALL GT TO BE RAPID SET CEMENT ALL-HIGH STRENGTH NSG OR EQ & CONFORM TO ASTM-C-110"



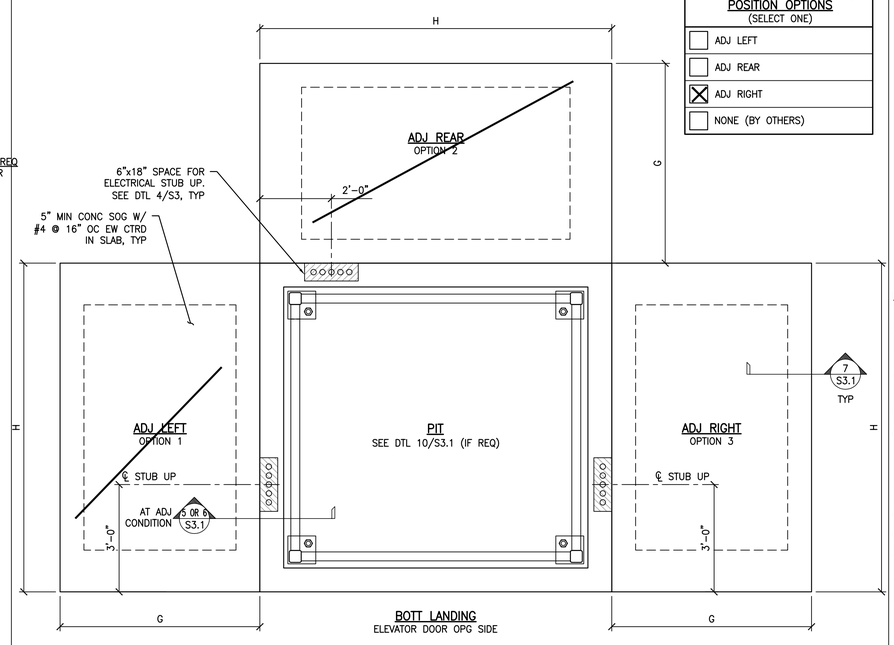
BLOCKOUT DIM SCHED	
INLINE DOORS	3'-4"
FRONT & BACK DOORS	3'-11"

BOTT LANDING
ELEVATOR DOOR OPG SIDE

NOTES:
1. SEE TABLES 1/S3 & TABLE 2/S3 FOR DIMS.
2. SEE PLAN 5/S3 FOR AB LOCATIONS.
3. SEE PLAN 2/S3 FOR OPTION SELECTED.

PIT FOUNDATION PLAN

3 / S3 NTS



MECH EQUIP ROOM (MER) POSITION OPTIONS (SELECT ONE)
☐ ADJ LEFT
☐ ADJ REAR
☒ ADJ RIGHT
☐ NONE (BY OTHERS)

NOTES:
1. EQUIP ROOM SLAB MUST BE LEVEL. NO SLOPE ALLOWED.
2. SEE TABLE 3A/S3 FOR DIMS.
3. SEE DTL 1/S6 FOR EQUIP ROOM PLAN.

OPTIONAL EQUIPMENT ROOM SLAB LOCATION (PARTIAL MER) PLAN

1 / S3 NTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

PRE-CHECK (PC) DOCUMENTS
2019 CBC CODE
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

S.E. PC APPROVAL

REGISTERED PROFESSIONAL ENGINEER MARK D. KAWAMURA No. S3380 STRUCTURAL STATE OF CALIFORNIA

10/28/2021

MODULAR ELEVATOR MANUFACTURING, INC.
P.O. BOX 3998
CHATSWORTH, CA. 91313
800-755-9359

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-119748 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/28/2021

MEM INC
MODULAR ELEVATOR MANUFACTURING

THIS INFORMATION IS CONFIDENTIAL AND REMAINS THE PROPERTY OF MODULAR ELEVATOR MANUFACTURING, INC. ITS USE, REPRODUCTION OF, OR DESSEMINATION WITHOUT THE EXPRESS PERMISSION OF MODULAR ELEVATOR MANUFACTURING, INC. IS STRICTLY PROHIBITED.

PROJECT NO: 19835
DATE: 09/15/2021
ENGINEERED BY: KAL
DRAWN BY: MTC

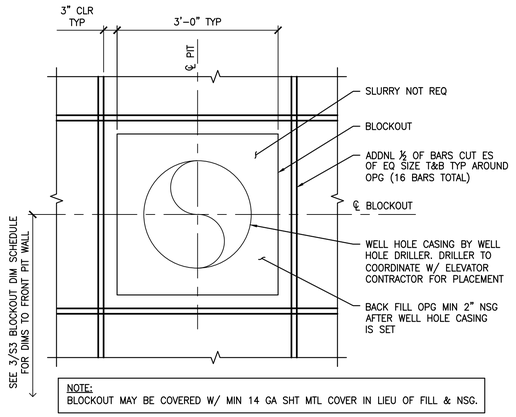
NO.	DATE	REVISION

FOUNDATION PIT PLAN

SHEET NO: S3

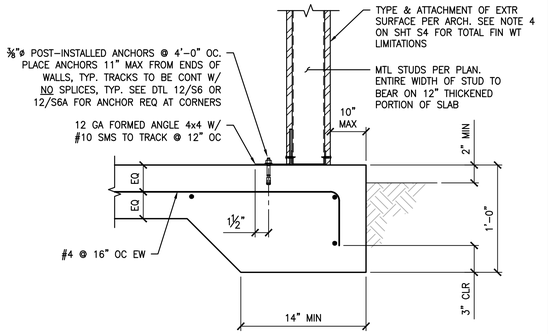
LICENSED ARCHITECT MARK RICHARD KAWAMURA C-40139 12-31-23 STATE OF CALIFORNIA

L:\Jobs\19\19835 MEM 2019 CBC PCs\CAD\STRUCT\S3_2019 CBC PC.dwg Time:Oct/27/2021-09:03am Login:mmachorro Xrefs:ref 1 LTScale:12



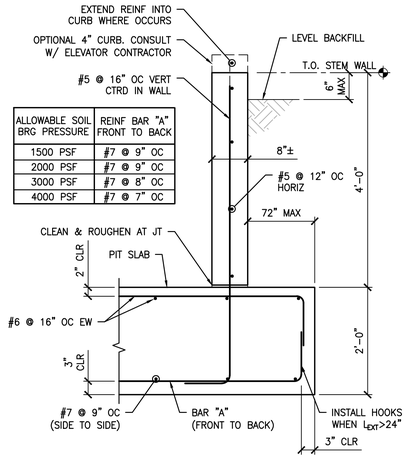
PIT SLAB BLOCKOUT BACK FILL (IF REQ) DETAIL

10 / S3.1 NTS



EQUIP ROOM WALL DETAIL

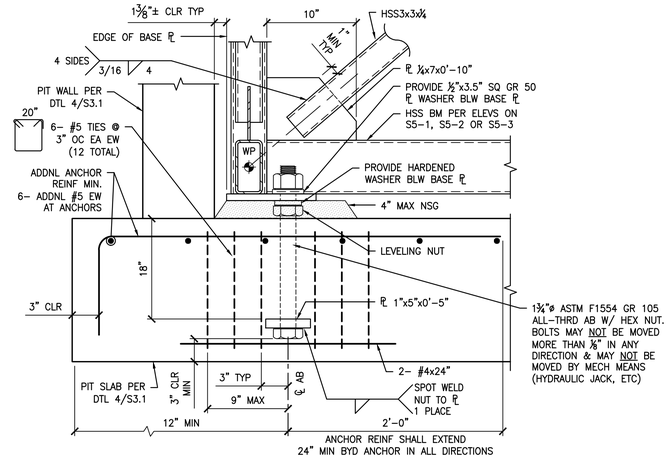
7 / S3.1 NTS



ALLOWABLE SOIL BRG PRESSURE	REINF BAR "A" FRONT TO BACK
1500 PSF	#7 @ 9" OC
2000 PSF	#7 @ 9" OC
3000 PSF	#7 @ 8" OC
4000 PSF	#7 @ 7" OC

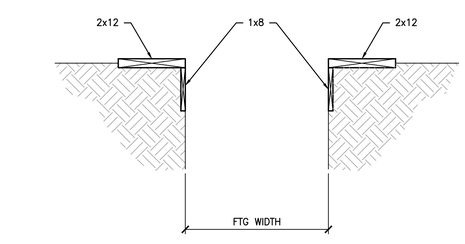
PIT WALL SECTION

4 / S3.1 NTS



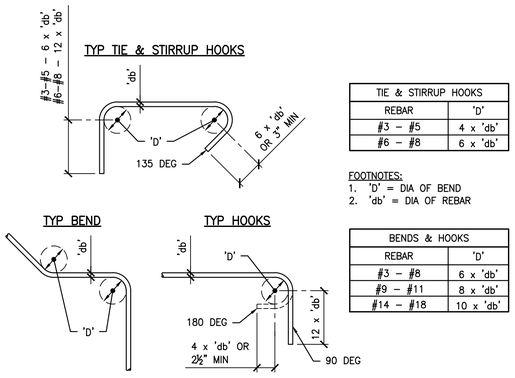
CONNECTION AT PIT DETAIL

1 / S3.1 NTS



TYP EXCAVATION DETAIL

11 / S3.1 NTS



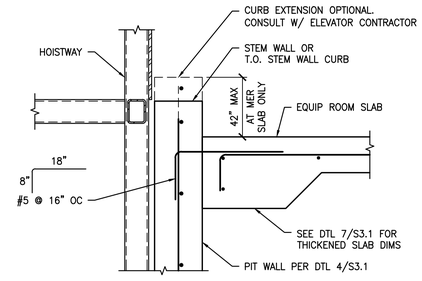
TIE & STIRRUP HOOKS	
REBAR	'D'
#3 – #5	4 x 'db'
#6 – #8	6 x 'db'

FOOTNOTES:
1. 'D' = DIA OF BEND
2. 'db' = DIA OF REBAR

BENDS & HOOKS	
REBAR	'D'
#3 – #8	6 x 'db'
#9 – #11	8 x 'db'
#14 – #18	10 x 'db'

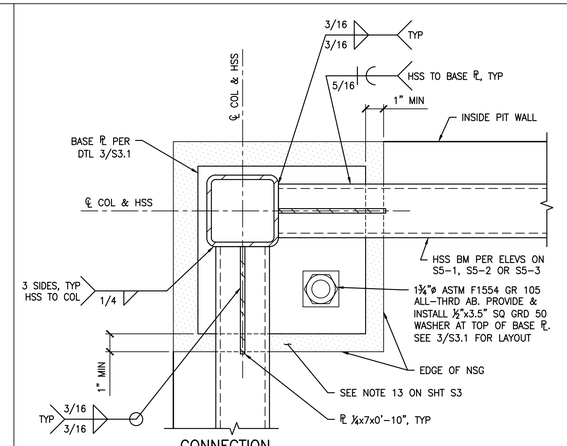
MIN REBAR BENDS DETAIL

8 / S3.1 NTS



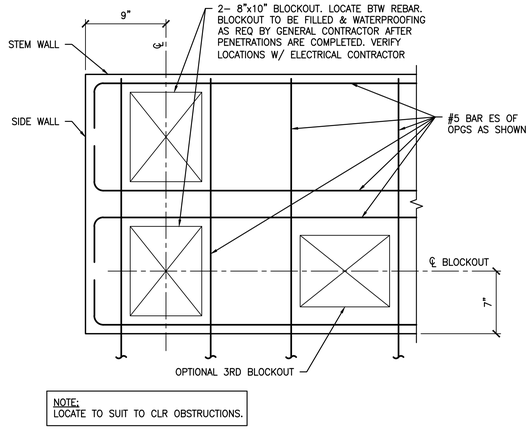
REINF CONN AT MER DETAIL

5 / S3.1 NTS



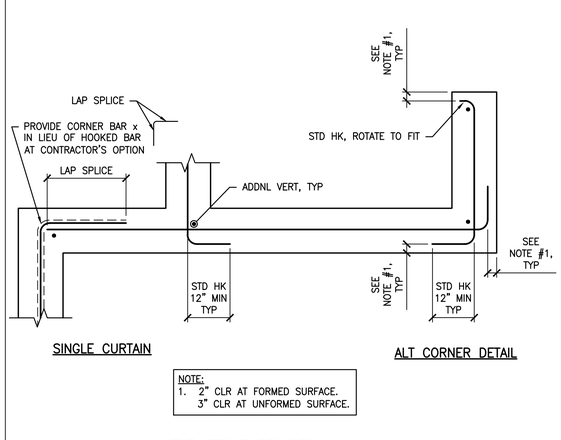
CONNECTION DETAIL

2 / S3.1 NTS



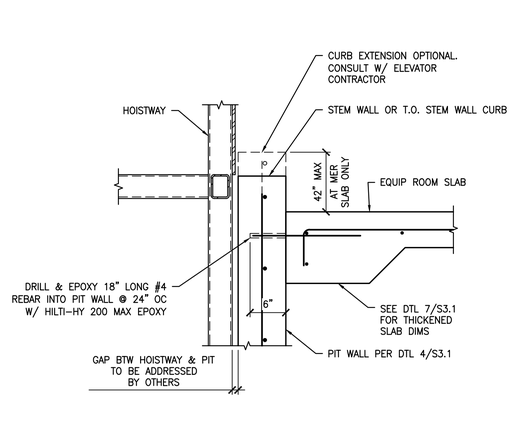
FEEDLINE BLOCKOUT DETAIL

12 / S3.1 NTS



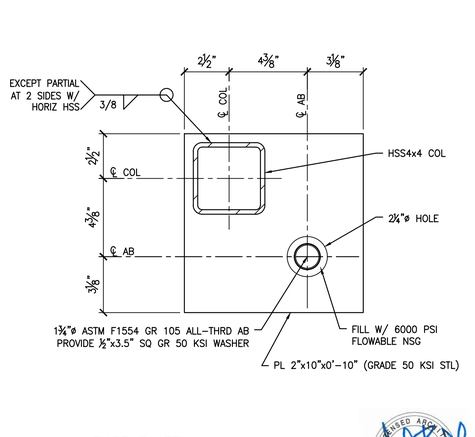
TYP REINF SPLICES DETAIL

9 / S3.1 NTS



ALT REINF CONN AT MER DETAIL

6 / S3.1 NTS



BASE PLATE DETAIL

3 / S3.1 NTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

PRE-CHECK (PC) DOCUMENTS
2019 CBC CODE
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

S.E. PC APPROVAL

REGISTERED PROFESSIONAL ENGINEER
Mauricio P. Gomez
No. S3380
STRUCTURAL
STATE OF CALIFORNIA
10/28/2021

MODULAR ELEVATOR MANUFACTURING, INC.
P.O. BOX 3998
CHATSWORTH, CA. 91313
800-755-9359

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-119748 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/28/2021

MEM INC
MODULAR ELEVATOR MANUFACTURING

THIS INFORMATION IS CONFIDENTIAL AND REMAINS THE PROPERTY OF MODULAR ELEVATOR MANUFACTURING, INC. ITS USE, REPRODUCTION OF, OR DESSEMINATION WITHOUT THE EXPRESS PERMISSION OF MODULAR ELEVATOR MANUFACTURING, INC. IS STRICTLY PROHIBITED.

PROJECT NO:	19835
DATE:	09/15/2021
ENGINEERED BY:	KAL
DRAWN BY:	MTC

NO.	DATE	REVISION

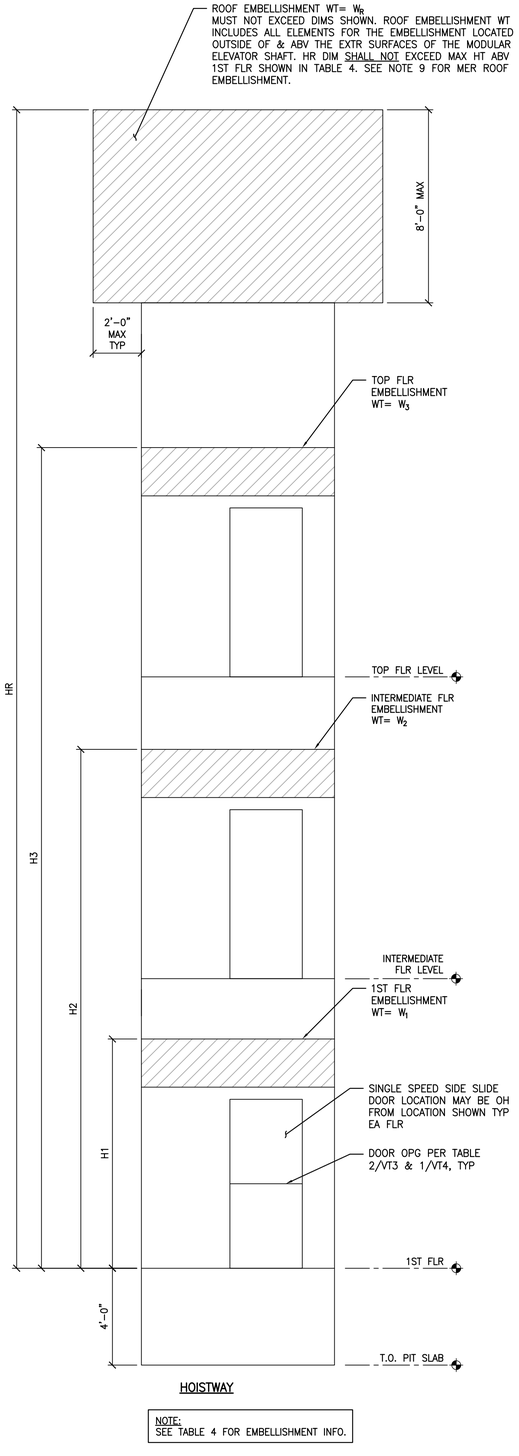
FOUNDATION DETAILS
MAX 44'-0"
TOWER HEIGHT

SHEET NO:

S3.1

REGISTERED ARCHITECT
MARK RICHARD SCHWARZ
No. C-41138
12-31-23
STATE OF CALIFORNIA

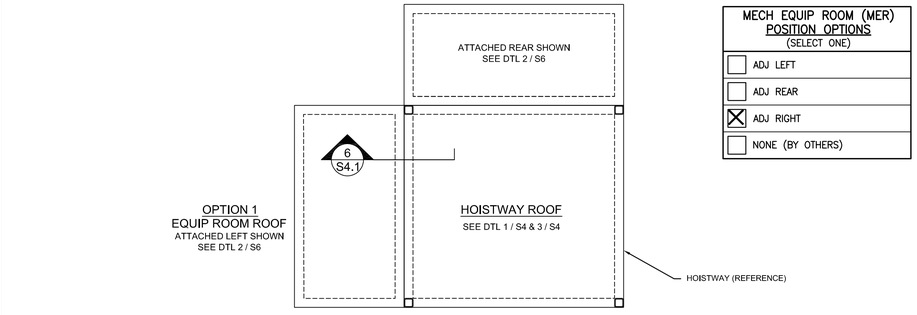
J:\Jobs\19835 MEM 2019 CBC PC\ACAD\STR\AS3.1 2019 CBC PC.dwg Time/Date:09/20/2021 - 11:37am Login:Field Dimsstyle:1 LTScale:4



HOISTWAY

NOTE:
SEE TABLE 4 FOR EMBELLISHMENT INFO.

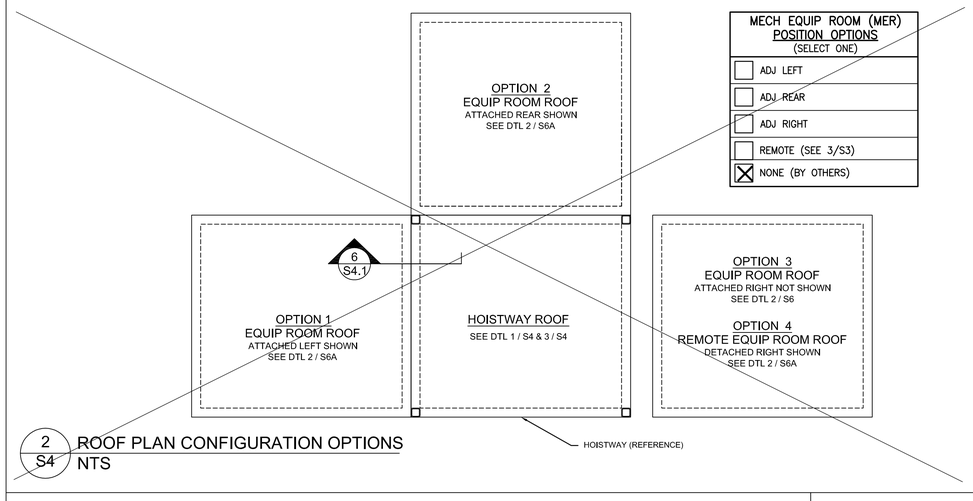
4/S4 EMBELLISHMENT LAYOUT
NTS



MECH EQUIP ROOM (MER) POSITION OPTIONS (SELECT ONE)

- ☐ ADJ LEFT
- ☐ ADJ REAR
- ☒ ADJ RIGHT
- ☐ NONE (BY OTHERS)

PARTIAL EQUIPMENT ROOF PLAN



MECH EQUIP ROOM (MER) POSITION OPTIONS (SELECT ONE)

- ☐ ADJ LEFT
- ☐ ADJ REAR
- ☐ ADJ RIGHT
- ☐ REMOTE (SEE 3/S3)
- ☒ NONE (BY OTHERS)

2/S4 ROOF PLAN CONFIGURATION OPTIONS
NTS

TABLE 4 – HOISTWAY EMBELLISHMENT

EMBELLISHMENT LEVEL	MAX HT ABV 1ST FLR (FT)	MAX EMBELLISHMENT WEIGHT (LB)
	44' TOWER	SEE NOTE 4 & 8 BLW & TABLE 1/S1
FIRST	H1 = 10	600
INTERMEDIATE	H2 = NA	600
TOP	H3 = 30	600
ROOF	HR = 48	1200

TABLE 5 – ROOF DIMENSIONS

	☐ HW-1	☒ HW-2	☐ HW-3
A	8'-0"	9'-3"	9'-11"
B	7'-6 1/4"	8'-6 1/4"	9'-2 1/4"

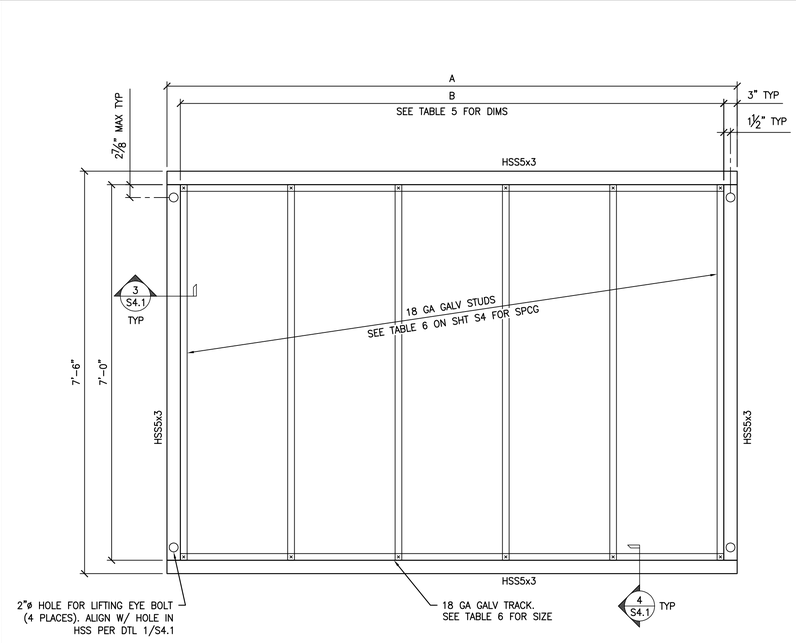
TABLE 6 – JOIST SIZING

SELECT	ROOF LOAD (PG <=)	SPACING	SIZE	SSMA DESIGNATIONS	USE
HOISTWAY ROOF & EQUIP ROOM ROOF JOIST & TRACK SELECTOR – SPAN = 7'-0"					
☒	20 PSF	@ 16" OC	3 1/2	350S162-43	JOIST
	45 PSF *	@ 16" OC	3 1/2	350S162-43	JOIST
	45 PSF *	–	3 1/2	350T150-43	RIM TRACK
EQUIP ROOM ROOF JOIST & TRACK SELECTOR – SPAN = 9'-6" MAX					
☐	20 PSF	@ 12" OC	3 1/2	350S162-43	JOIST
	45 PSF *	@ 12" OC	3 1/2	350S162-54	JOIST
	20 PSF	–	3 1/2	350T150-43	RIM TRACK
☐	45 PSF *	–	3 1/2	350T150-54	RIM TRACK

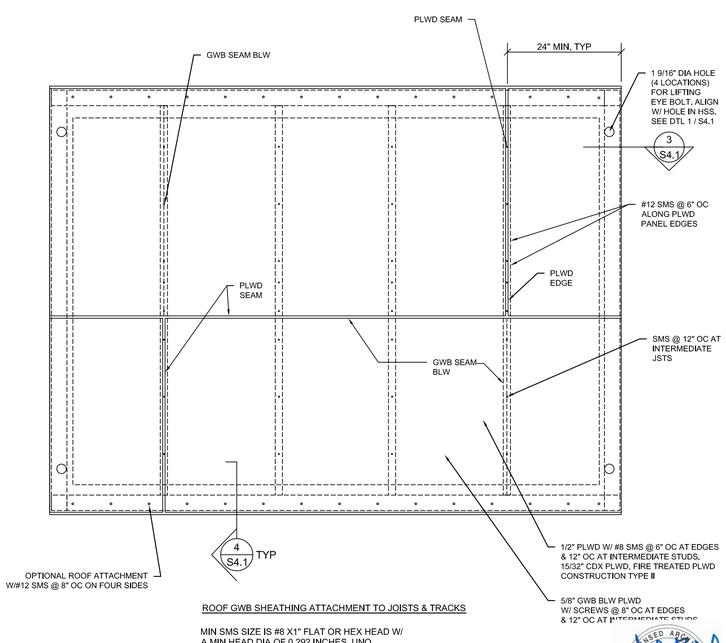
TABLE 6 NOTE:
* MAX ROOF SNOW LOAD INCLUDING DRIFT LOADS

ITEMS TO BE PROVIDED BY SITE APPLICATION ARCHITECT &/OR ENGINEER OF RECORD

1. ATTACHMENTS OF FIN MATERIAL BY OTHERS.
2. EMBELLISHMENTS (FOR MAIN ELEVATOR SHAFT ONLY) MUST ATTACH TO STRUC STL COLS & BMS ONLY & NOT TO LIGHT GAUGE MEMBERS. THIS RESTRICTION DOES NOT APPLY TO WALL FINISHES.
3. MAX TOTAL WT OF EXTR WALL FIN = 400 LBS PER FT, SEE "HEAVY CLADDING NOTE ON SHT S2.
4. 3 1/2" STUD WALL CONSTR OPTIONS ARE FIRE-RATED CONSTR, SEE 1/S5.3. 5/8" GWB TYPE X APPLIED TO INTR & EXTR, PARALLEL OR AT RIGHT ANGLES TO STUDS OR STUCCO ON EXTR & 5/8" GWB APPLIED TO INTR. ALL GWB ATTACHED W/ 1" TYPE S DRYWALL SCREWS 8" OC ON VERT EDGES & 12" OC ON INTERMEDIATE STUDS PER UL DESIGN NO. 419 OR U434.
5. FIRE-RATED CONSTR MAY NOT BE REQ WHEN THE ELEVATOR SHAFT DOES NOT PENETRATE FLRS, WHERE THE OPGS DO NOT ENTER DIRECTLY INTO ANOTHER STRUCTURE & WHEN THE SHAFT IS LOCATED FURTHER THAN 10'-0" FROM A PROPERTY LINE, PER CBC 712.1.
6. EXTR FIN & FLASHING DTLS TO BE SPECIFIED BY PROJECT ARCH & ARE BY OTHERS. HORIZ REVEAL/JT SHALL BE PROVIDED AT LOCATION OF HORIZ HSS IN EXTR FIN.
7. APPROVAL FOR SPECIFIC EMBELLISHMENT CONFIGURATION MUST BE OBTAINED ON SITE SPECIFIC APPLICATION.
8. CALCULATIONS ASSUME A MAX OF 20 PSF TOTAL WALL WT, INCLUDING CLADDING. EMBELLISHMENT WTS ARE IN ADDITION TO THE WALL WT.
9. MODULAR EQUIP ROOM ROOF EMBELLISHMENT TO MEET SAME DIM RESTRICTIONS AS ELEVATOR SHAFT ROOF EMBELLISHMENT EXCEPT MAX HT IS 4'-0" & MAX WT IS 600 LBS. CONSTR & ATTACHMENT OF EMBELLISHMENT TO MACHINE ROOM IS NOT PART OF THIS PROJECT & IT IS SUBJECT TO THE LIMITATIONS SHOWN ON THIS NOTE 12.
10. MAX FLR EMBELLISHMENT PROJECTION IS 3'-0" FROM FACE OF HOISTWAY WALL.
11. 2-HOUR FIRE-RATED WALL ASSEMBLY WILL CONSIST OF 2 LAYERS OF 5/8" THK TYPE X FIRE-RATED GWB INSIDE & OUTSIDE OF TOWER UTILIZING 3 1/2" STUDS. ASSEMBLY IS BASED UPON U.L. DESIGN NO. U419.
12. SECONDARY FRMG SHALL BE PROVIDED TO SUPPORT EMBELLISHMENT. ATTACHMENT OF SECONDARY FRMG TO MTL STUD IS NOT PERMITTED. THE DESIGN OF EMBELLISHMENTS IS NOT PART OF THIS APPLICATION.



3/S4 HOISTWAY ROOF FRAMING PLAN
NTS
SEE TABLE 5 FOR DIMENSIONS



ROOF GWB SHEATHING ATTACHMENT TO JOISTS & TRACKS

MIN SMS SIZE IS #8 X1" FLAT OR HEX HEAD W/ A MIN HEAD DIA OF 0.292 INCHES, UNO

1/S4 HOISTWAY ROOF SHEATHING PLAN
NTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

PRE-CHECK (PC) DOCUMENTS
2019 CBC CODE
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

S.E. PC APPROVAL

REGISTERED PROFESSIONAL ENGINEER
MARK D. KEMPER
No. S3380
STRUCTURAL
STATE OF CALIFORNIA
10/28/2021

MODULAR ELEVATOR MANUFACTURING, INC.
P.O. BOX 3998
CHATSWORTH, CA. 91313
800-755-9359

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-119748 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/28/2021

MODULAR ELEVATOR MANUFACTURING

THIS INFORMATION IS CONFIDENTIAL AND REMAINS THE PROPERTY OF MODULAR ELEVATOR MANUFACTURING, INC. ITS USE, REPRODUCTION OF, OR DESSEMINATION WITHOUT THE EXPRESS PERMISSION OF MODULAR ELEVATOR MANUFACTURING, INC. IS STRICTLY PROHIBITED.

PROJECT NO:	19835
DATE:	09/15/2021
ENGINEERED BY:	KAL
DRAWN BY:	MTC

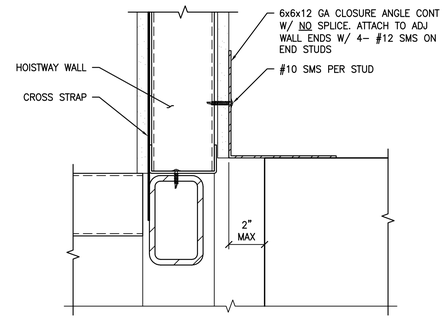
NO.	DATE	REVISION

HOISTWAY ROOF PLAN

SHEET NO:

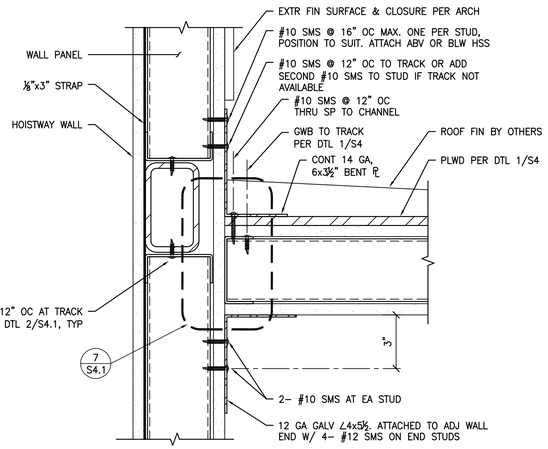
S4

LA\data\R\19835_MEM_2019 CBC_PC\CAD\STR\S4_2019 CBC_PC.dwg Time:Oct/27/2021--09:10am Login:jonathon Dimscale:1 LTScale:0.5



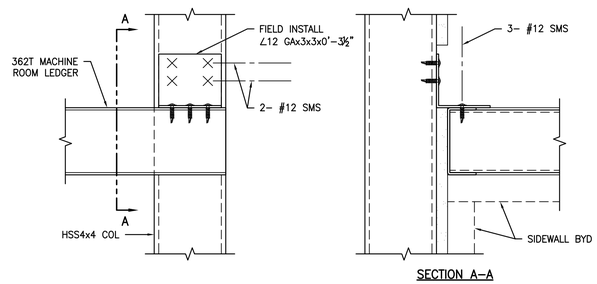
ATTACHED EQUIP ROOM FLR CONN DETAIL

5 / S4.1 — 3" = 1'–0"



ATTACHED EQUIP ROOM ROOF CONN DETAIL

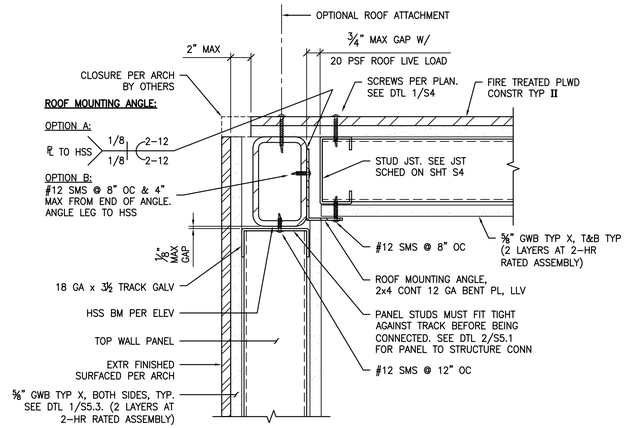
6 / S4.1 — 3" = 1'–0"



SECTION A–A

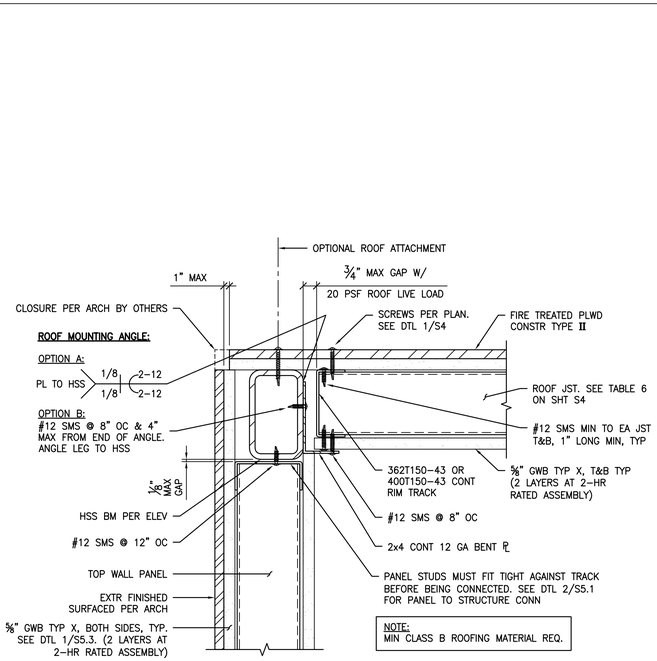
DETAIL

7 / S4.1 — 3" = 1'–0"



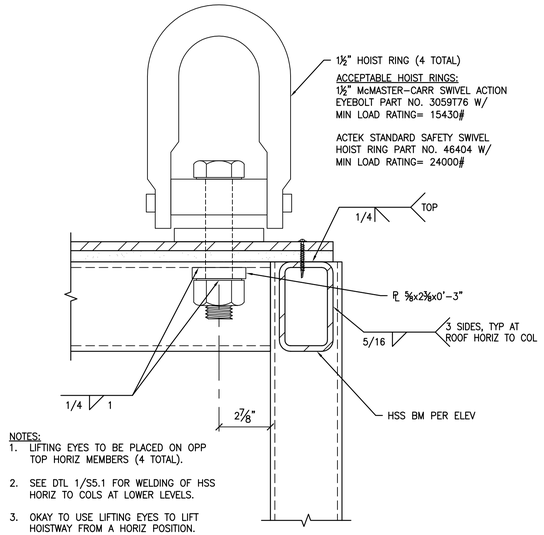
HOISTWAY ROOF AT SIDE WALL DETAIL

3 / S4.1 — 3" = 1'–0"



HOISTWAY ROOF AT END WALL DETAIL

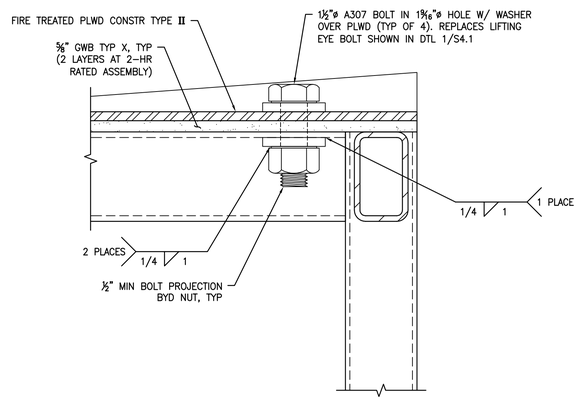
4 / S4.1 — 3" = 1'–0"



NOTES:
1. LIFTING EYES TO BE PLACED ON OPP TOP HORIZ MEMBERS (4 TOTAL).
2. SEE DTL 1/S5.1 FOR WELDING OF HSS HORIZ TO COLS AT LOWER LEVELS.
3. OKAY TO USE LIFTING EYES TO LIFT HOISTWAY FROM A HORIZ POSITION.

HOISTWAY LIFTING EYE DETAIL

1 / S4.1 — 3" = 1'–0"



HOISTWAY ROOF BOLTING DETAIL

2 / S4.1 — 3" = 1'–0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

PRE-CHECK (PC) DOCUMENTS
2019 CBC CODE
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

S.E. PC APPROVAL

Mauricio D. Pineda — REGISTERED PROFESSIONAL ENGINEER — No. S3380 — STRUCTURAL — STATE OF CALIFORNIA

10/28/2021

MODULAR ELEVATOR MANUFACTURING, INC.
P.O. BOX 3998
CHATSWORTH, CA. 91313
800-755-9359

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-119748 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/28/2021

MEM INC
MODULAR ELEVATOR MANUFACTURING

THIS INFORMATION IS CONFIDENTIAL AND REMAINS THE PROPERTY OF MODULAR ELEVATOR MANUFACTURING, INC. ITS USE, REPRODUCTION OF, OR DESSEMINATION WITHOUT THE EXPRESS PERMISSION OF MODULAR ELEVATOR MANUFACTURING, INC. IS STRICTLY PROHIBITED.

PROJECT NO:	19835
DATE:	09/15/2021
ENGINEERED BY:	KAL
DRAWN BY:	MTC

NO.	DATE	REVISION

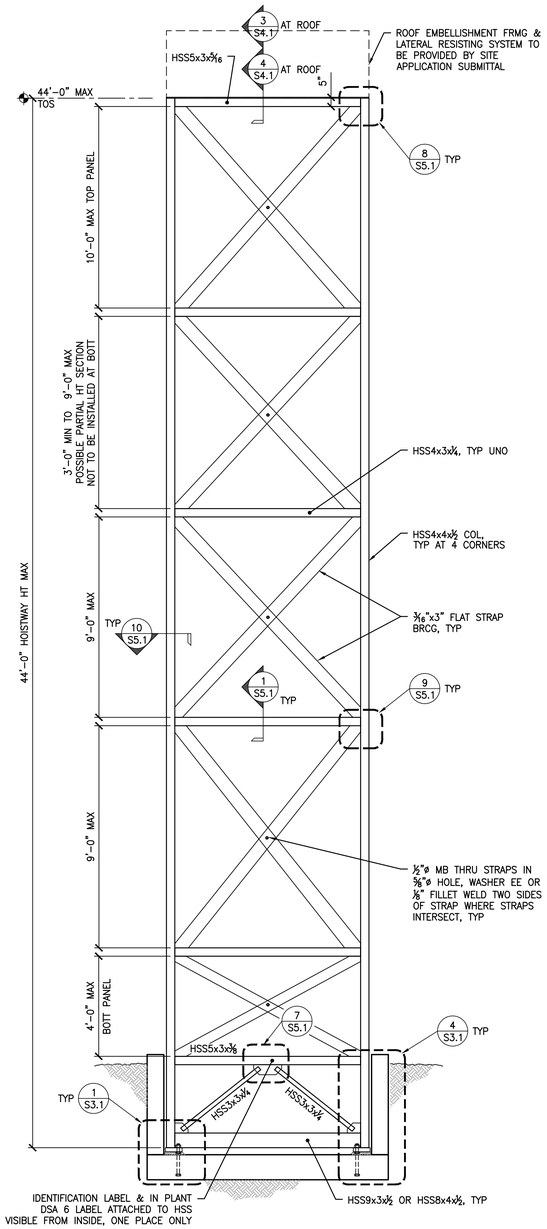
HOISTWAY & ROOF DETAILS

SHEET NO:

S4.1

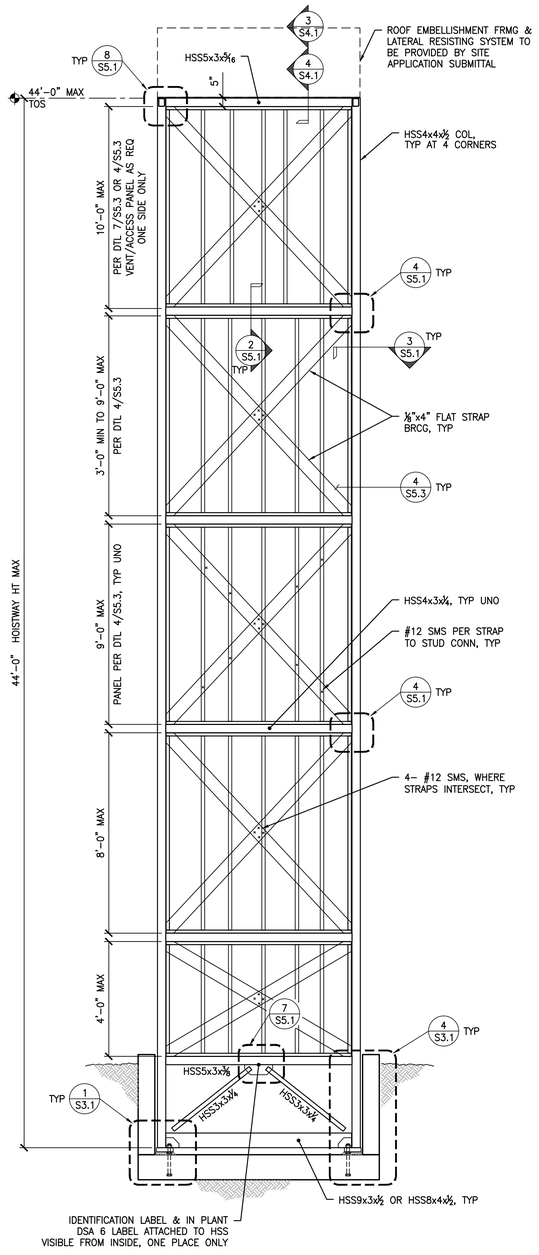
LICENSED ARCHITECT — Kevin Lee — Expires 08-31-23 — STATE OF CALIFORNIA

L:\Jobs\19\19835 MEM 2019 CBC PC\CAD\STRUCTS\S4.1_2019 CBC PC.dwg Time:Oct/27/2021 – 11:39am Login:cmashore Dimscale=1 LTScale=2



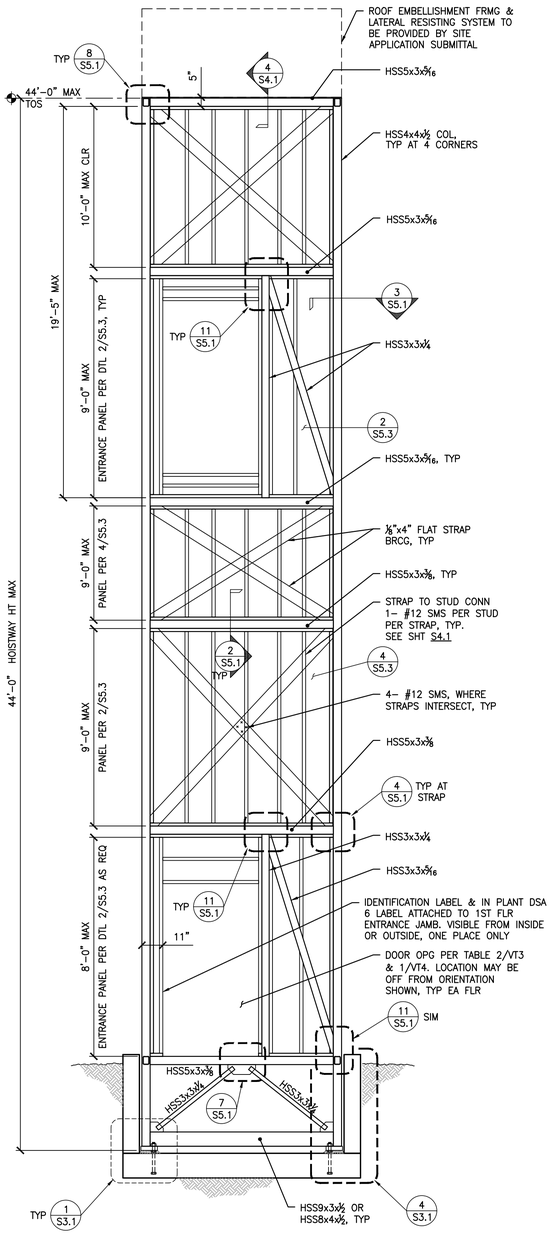
NOTES:
1. GLASS WALL TO BE PROVIDED & INSTALLED BY OTHERS, SEE NOTES ON SHT S4.
2. WALL CONFIGURATION CAN BE UTILIZED ON ANY NON-ENTRANCE SIDE OF HOISTWAY.
3. PANEL ARRANGEMENT TO SUIT HOISTWAY HT & FLR LEVELS.
4. FOR RATED HOISTWAY WALLS, SEE ELEV 6/S5-1.
5. ELEVS OF HORIZ HSS ON ALL SIDES EXCEPT FACE A, THE FRONT ENTRANCE SIDE, SHALL BE THE SAME.

HOISTWAY WALL - NON-RATED WALL
ELEVATION
7 / S5-1 NTS MAX 44'-0" TOWER HT FOR 26'-0" TRAVEL



NOTES:
1. WALL CONFIGURATION CAN BE UTILIZED ON ANY NON-ENTRANCE SIDE OF HOISTWAY.
2. FOR NON-RATED OR GLASS WALL CONDITION SEE ELEV 7/S5-1.
3. ELEVS OF HORIZ HSS ON ALL SIDES EXCEPT FACE A, THE FRONT ENTRANCE SIDE, SHALL BE THE SAME.

HOISTWAY RATED WALL SIDE WALLS
ELEVATION
6 / S5-1 NTS MAX 44'-0" TOWER HT FOR 26'-0" TRAVEL

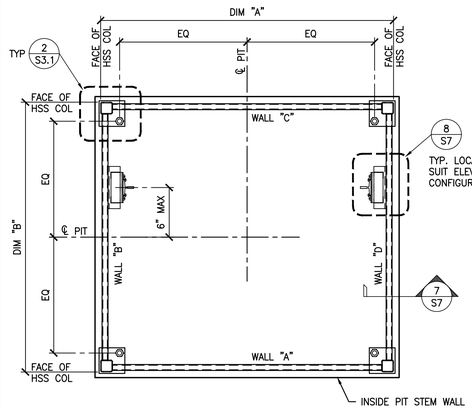


NOTE:
PANEL ARRANGEMENT TO SUIT HOISTWAY HT & FLR LEVELS.

HOISTWAY RATED WALL W/ ENTRANCE END WALL ONLY
ELEVATION
5 / S5-1 NTS MAX 44'-0" TOWER HT FOR 26'-0" TRAVEL

TABLE 7A - WALL DIMS			
	☐ HW-1	☒ HW-2	☐ HW-3
DIM A	8'-2¼"	9'-2¼"	9'-10¼"
DIM B	7'-6½"	7'-6½"	7'-6½"

NOTE:
FOR WALL TYPE SELECTION, SEE TABLE 7 ON DTL 2/S5-1.



1 / S5-1 HOISTWAY PLAN
1/2" = 1'-0"

TABLE 7 - WALL SELECTOR			
WALL	ENTRANCE 5/S5-1	TYP 6/S5-1	NON-RATED 7/S5-1
A	☒	☐	☐
B	☐	☐	☒
C	☐	☐	☒
D	☐	☐	☒

NOTES:
1. SELECT ONLY ONE (1) WALL TYPE PER SIDE. ENTRANCE WALLS MAY NOT BE ADJ.
2. ARCH TO FILL OPEN BOXES AS APPLICABLE.
3. DTL 5/S5-1 DOES NOT APPLY AT FACES B, C OR D.

2 / S5-1 WALL SELECTOR
NTS

MAX DISPLACEMENT		
STORY	WIND	SEISMIC ∂x
ROOF	0.4"	4.1"

NOTE:
ELEVATOR TOWER SHALL BE SEPARATED FROM ADJ STRUCTURE SUCH THAT THE DISTANCE IS EQ TO THE SQ ROOT OF THE SUM OF THE SQUARES OF ∂x FOR BOTH STRUCTURES PER ASCE 7-16 SECTION 12.8.6.

3 / S5-1 DISPLACEMENT SCHEDULE
NTS

HOISTWAY NOTES:
1. STUDS ARE NOT REQ WITHIN THE PIT.
2. EXCEPT FOR ENTRANCE PANEL, IF THE CLR DIM BTW HORIZ HSS MEMBERS IS REQ TO BE > 9'-0", THEN AN ADDNL HORIZ MEMBER IS REQ MID-WAY BTW THE HSS MEMBERS SHOWN IN THE ELEV, W/ FLAT STRAP BRCG IN EA BAY.
3. FOR ENTRANCE PANEL ONLY, IF THE CLR DIM BTW HORIZ HSS MEMBERS FOR PANELS ABV THE THRESHOLD OF THE 2ND OPG IS REQ TO BE > 9'-0", THEN AN ADDNL HORIZ MEMBER IS REQ BTW THE HSS MEMBERS SHOWN IN THE ELEV, W/ FLAT STRAP BRCG IN EA BAY, & A VERT HSS MEMBER IS REQ NEXT TO THE DOORWAY. MAX PANEL HT FOR PANELS ABV THE 2ND LEVEL SHALL BE 10'-0".
4. IF LANDING BRIDGE OR LANDING AWNING IS REQ, SEE SHT S5.2.
5. COLS TO BE CONT FOR FULL HT. NO SPLICES ALLOWED.
6. ELEVATORS SERVE TWO STORIES OR LESS, SHAFT CONSTR NOT REQ IF COMPLIANT W/ CBC 712.1, OTHERWISE, SHAFT CONSTR PROVIDED PER 713.4.

4 / S5-1 HOISTWAY NOTES
NTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

PRE-CHECK (PC) DOCUMENTS
2019 CBC CODE
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

S.E. PC APPROVAL

10/28/2021

MODULAR ELEVATOR MANUFACTURING, INC.
P.O. BOX 3998
CHATSWORTH, CA. 91313
800-755-9359

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-119748 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/28/2021

MEM INC
MODULAR ELEVATOR MANUFACTURING

THIS INFORMATION IS CONFIDENTIAL AND REMAINS THE PROPERTY OF MODULAR ELEVATOR MANUFACTURING, INC. ITS USE, REPRODUCTION OF, OR DESSEMINATION WITHOUT THE EXPRESS PERMISSION OF MODULAR ELEVATOR MANUFACTURING, INC. IS STRICTLY PROHIBITED.

PROJECT NO:	19835
DATE:	09/15/2021
ENGINEERED BY:	KAL
DRAWN BY:	MTC

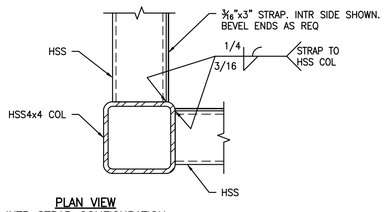
NO.	DATE	REVISION

HOISTWAY PLAN & SECTIONS
MAX 44'-0" TOWER HT

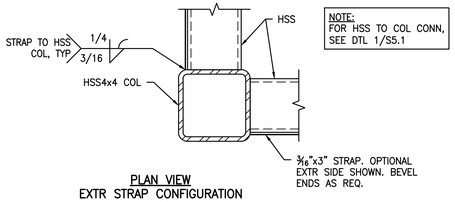
SHEET NO:
S5-1

L:\Jobs\19\19835 MEM 2019 CBC PC\ACAD\STRUCS-1 2019 CBC PC.dwg Time:Sep15 2021 - 04:58pm Login:FaceR Dimscale:1 LTScale:12

STRAP POSITION SELECTOR NON–RATED WALL ONLY		
☒ INTERIOR	☒ SIDE WALL	☐ END WALL
☒ EXTERIOR	☒ SIDE WALL	☒ END WALL



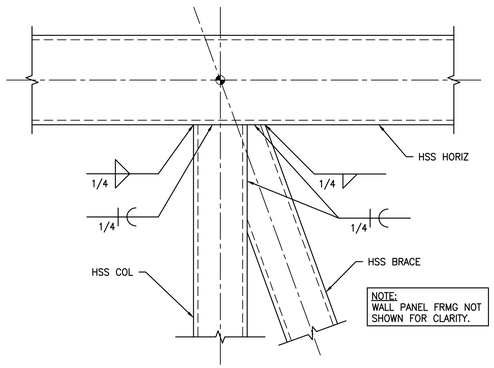
PLAN VIEW
INTR STRAP CONFIGURATION



NOTE:
FOR HSS TO COL CONN, SEE DTL 1/S5.1

PLAN VIEW
EXTR STRAP CONFIGURATION
(OPTIONAL)

COL AT NON–RATED WALL DETAIL
10 / S5.1 — NTS

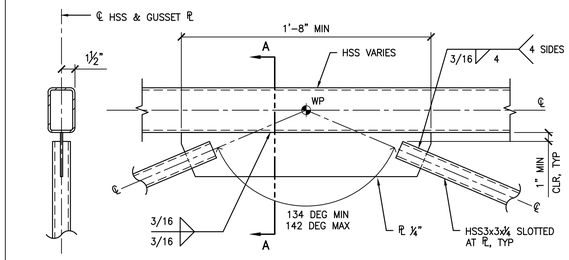


NOTE:
WALL PANEL FRMG NOT SHOWN FOR CLARITY.

DOOR PANEL BRACE CONN DETAIL
11 / S5.1 — 3" = 1'–0"

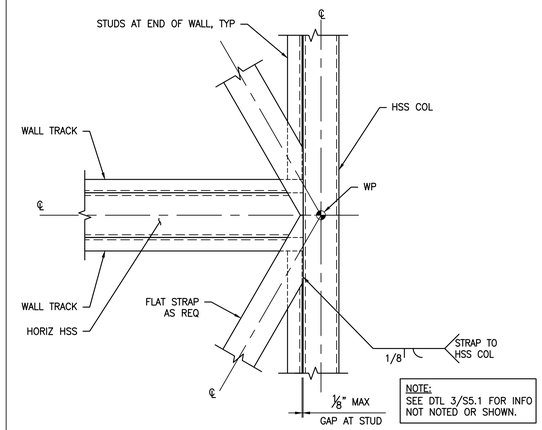
NOT USED

DETAIL
12 / S5.1



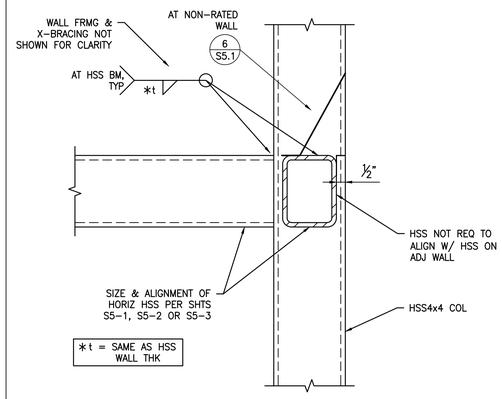
SECTION A–A

DIAG BRACES DETAIL
7 / S5.1 — 1 1/2" = 1'–0"



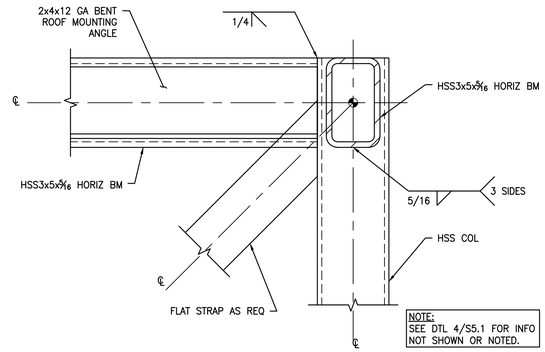
NOTE:
SEE DTL 3/S5.1 FOR INFO NOT NOTED OR SHOWN.

BRACE TO STL FRAME DETAIL
4 / S5.1 — 1 1/2" = 1'–0"



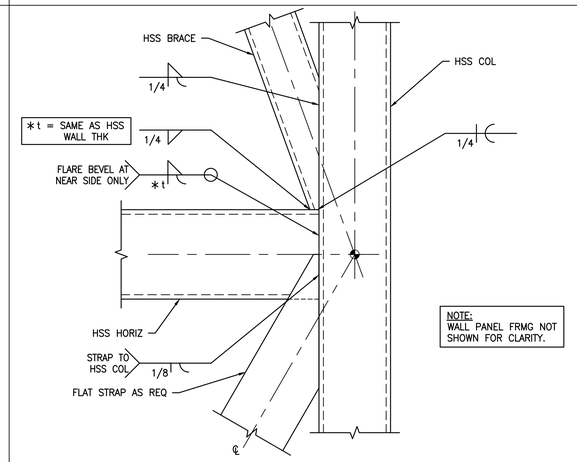
∗t = SAME AS HSS WALL THK

HORIZ HSS TO COL DETAIL
1 / S5.1 — 3" = 1'–0"



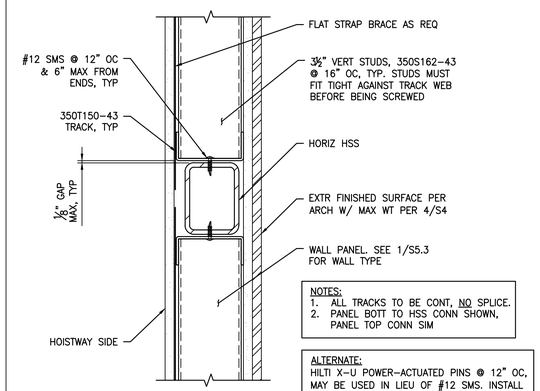
NOTE:
SEE DTL 4/S5.1 FOR INFO NOT SHOWN OR NOTED.

TOP CORNER DETAIL
8 / S5.1 — 3" = 1'–0"



NOTE:
WALL PANEL FRMG NOT SHOWN FOR CLARITY.

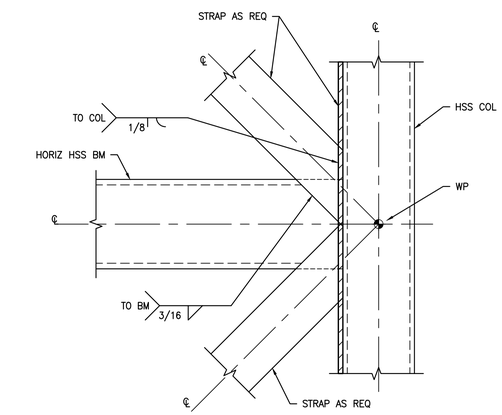
DOOR PANEL BRACE CONN DETAIL
5 / S5.1 — 3" = 1'–0"



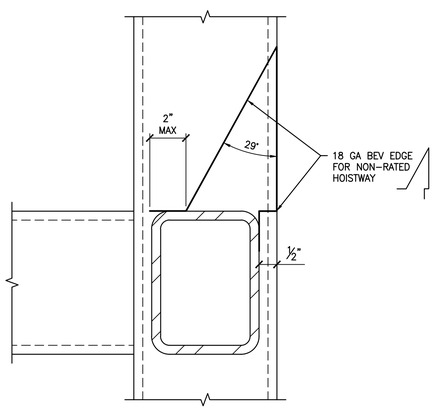
NOTES:
1. ALL TRACKS TO BE CONT, NO SPLICE.
2. PANEL BOTT TO HSS CONN SHOWN, PANEL TOP CONN SIM

ALTERNATE:
HILTI X–U POWER–ACTUATED PINS @ 12" OC, MAY BE USED IN LIEU OF #12 SMS. INSTALL PER ICC–ESR REPORT 2269.

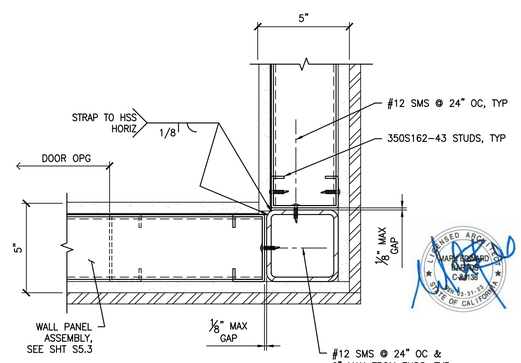
PANEL CONN DETAIL
2 / S5.1 — 3" = 1'–0"



DIAG BRACE CONN NON RATED WALL DETAIL
9 / S5.1 — 3" = 1'–0"



NON–RATED WALL DETAIL
6 / S5.1 — 6" = 1'–0"



TYP WALL CONDITION
PLAN VIEW

ALTERNATE:
HILTI X–U POWER–ACTUATED PINS @ 24" OC, MAY BE USED IN LIEU OF #12 SMS. INSTALL PER ICC–ESR REPORT 2269

COL DETAIL
3 / S5.1 — 3" = 1'–0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

PRE-CHECK (PC) DOCUMENTS
2019 CBC CODE
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

S.E. PC APPROVAL

REGISTERED PROFESSIONAL ENGINEER — MANUEL D. CARVALHO — No. S3380 — STRUCTURAL — STATE OF CALIFORNIA

10/28/2021

MODULAR ELEVATOR MANUFACTURING, INC.
P.O. BOX 3998
CHATSWORTH, CA. 91313
800-755-9359

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-119748 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/28/2021

MEM INC
MODULAR ELEVATOR MANUFACTURING

THIS INFORMATION IS CONFIDENTIAL AND REMAINS THE PROPERTY OF MODULAR ELEVATOR MANUFACTURING, INC. ITS USE, REPRODUCTION OF, OR DESSEMINATION WITHOUT THE EXPRESS PERMISSION OF MODULAR ELEVATOR MANUFACTURING, INC. IS STRICTLY PROHIBITED.

PROJECT NO:	19835
DATE:	09/15/2021
ENGINEERED BY:	KAL
DRAWN BY:	MTC

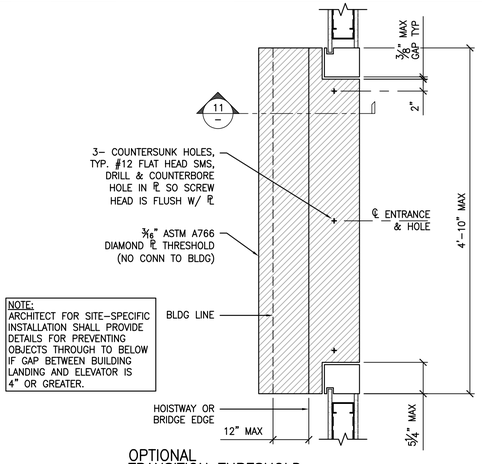
NO.	DATE	REVISION

HOISTWAY DETAILS

SHEET NO:
S5.1

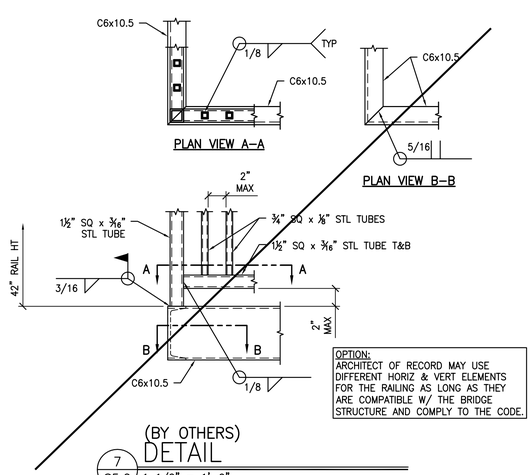
LICENSED ARCHITECT — MARK STEWARD CARTER — C-44138 — 03-31-23 — STATE OF CALIFORNIA

L:\Jobs\19835 MEM 2019 CBC PC\CAD\STRUCT\S5.1 2019 CBC PC.dwg Time/Date:Sep 15,2021 - 04:56pm Login:FishD Driver:ctb7.1 LTScale:6



OPTIONAL TRANSITION THRESHOLD DETAIL

10 S5.2 1" = 1'–0"

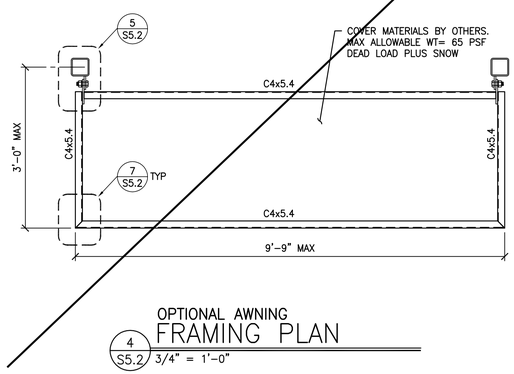


(BY OTHERS) DETAIL

7 S5.2 1 1/2" = 1'–0"

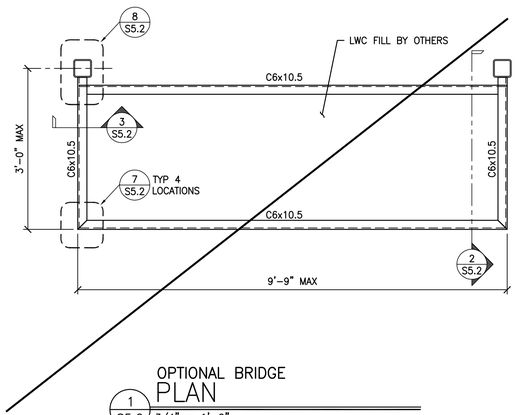
COVER OPTIONS (COVERS PROVIDED BY OTHERS):

1. USE ⅝" PLWD ON TOP SPANNING FRONT–TO–BACK W/ NO INTR SUPPORTS IF CLG FIN IS NOT PROVIDED.
2. USE ¾" PLWD ON TOP SPANNING SIDE–TO–SIDE W/ A DBL 400S162–54 MTL JST SPANNING SIDE–TO–SIDE, A SINGLE 400S162–54 JST CANNOT BE USED TO SPAN THE FULL WIDTH OF THE CANOPY.
3. USE ½" PLWD ON TOP OF 4" MTL JSTS SPACED 24" OC SPANNING FRONT–TO–BACK.



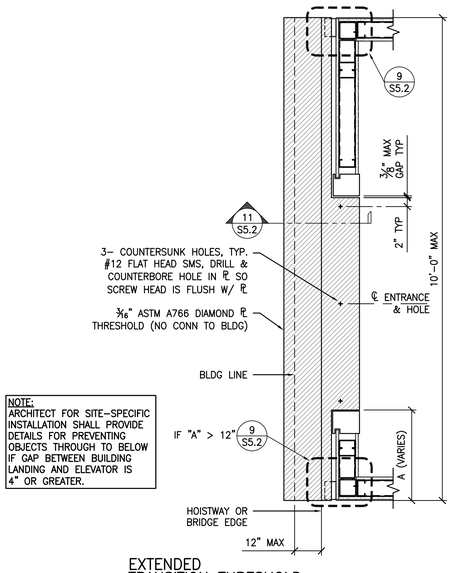
OPTIONAL AWNING FRAMING PLAN

4 S5.2 3/4" = 1'–0"



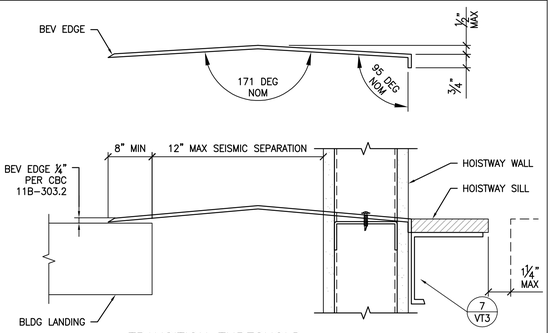
OPTIONAL BRIDGE PLAN

1 S5.2 3/4" = 1'–0"



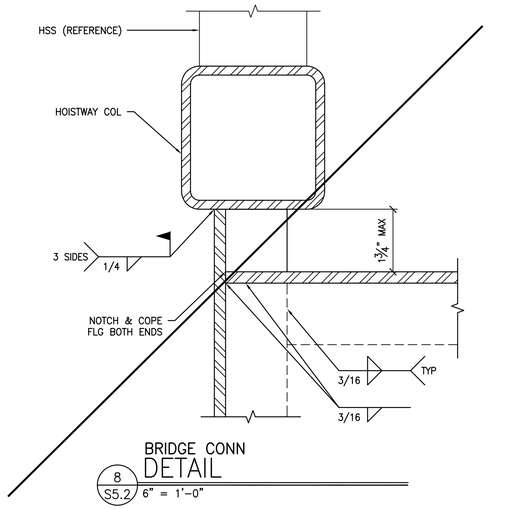
EXTENDED TRANSITION THRESHOLD DETAIL

10A S5.2 3/4" = 1'–0"



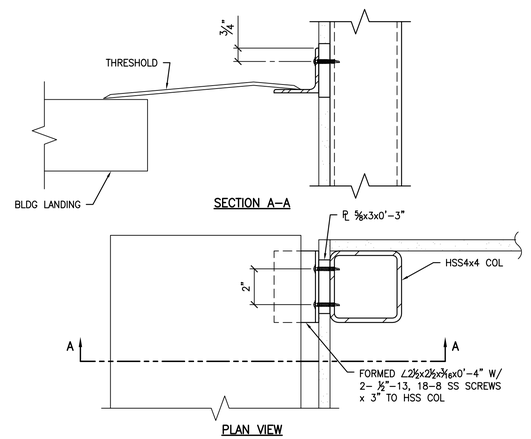
TRANSITION THRESHOLD DETAIL

11 S5.2 3" = 1'–0"



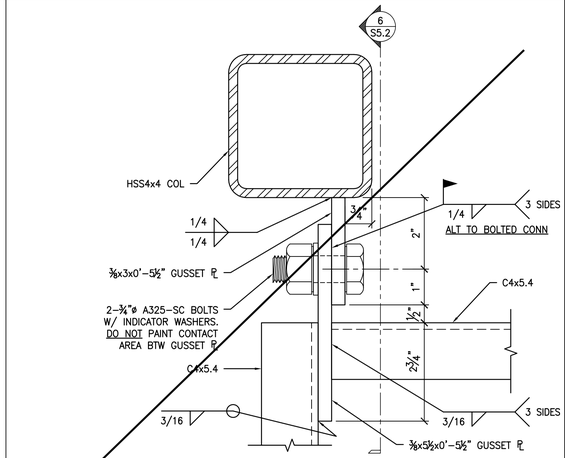
BRIDGE CONN DETAIL

8 S5.2 6" = 1'–0"



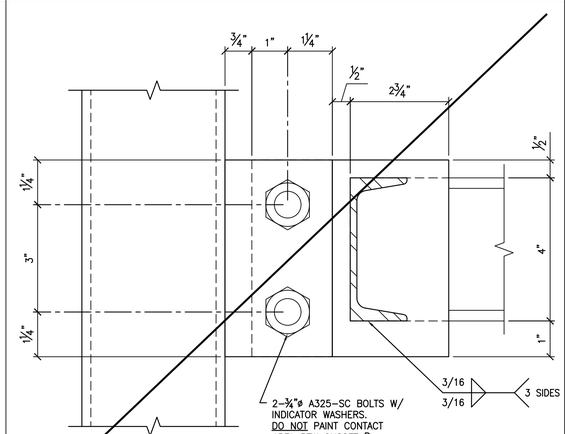
TRANSITION THRESHOLD DETAIL

9 S5.2 3" = 1'–0"



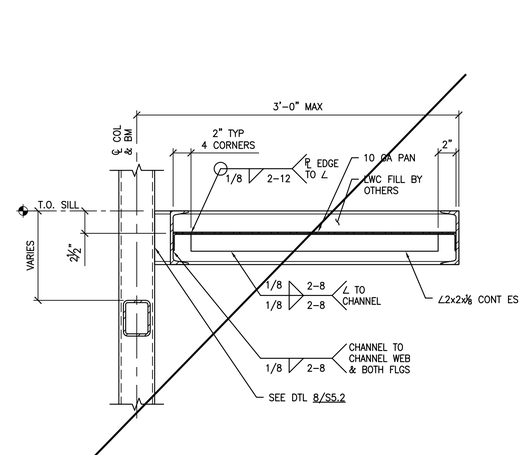
OPTIONAL AWNING CONN DETAIL

5 S5.2 6" = 1'–0"



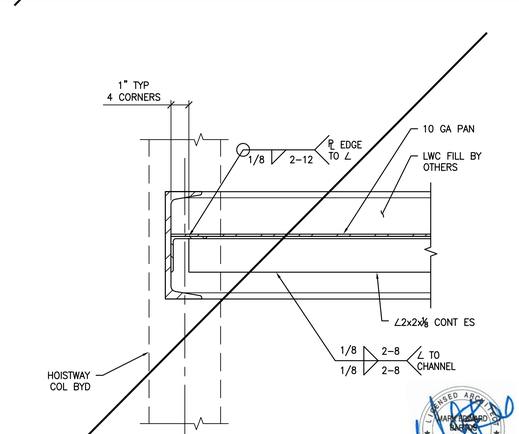
OPTIONAL AWNING CONN SECTION DETAIL

6 S5.2 6" = 1'–0"



BRIDGE SECTION DETAIL

2 S5.2 1 1/2" = 1'–0"



OPTIONAL BRIDGE SECTION DETAIL

3 S5.2 3" = 1'–0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

PRE-CHECK (PC) DOCUMENTS
2019 CBC CODE
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

S.E. PC APPROVAL

REGISTERED PROFESSIONAL ENGINEER MARK D. KAM No. S3380 STRUCTURAL STATE OF CALIFORNIA

10/28/2021

MODULAR ELEVATOR MANUFACTURING, INC.
P.O. BOX 3998
CHATSWORTH, CA. 91313
800-755-9359

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-119748 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/28/2021

MEM INC
MODULAR ELEVATOR MANUFACTURING

THIS INFORMATION IS CONFIDENTIAL AND REMAINS THE PROPERTY OF MODULAR ELEVATOR MANUFACTURING, INC. ITS USE, REPRODUCTION OF, OR DESSEMINATION WITHOUT THE EXPRESS PERMISSION OF MODULAR ELEVATOR MANUFACTURING, INC. IS STRICTLY PROHIBITED.

PROJECT NO:	19835
DATE:	09/15/2021
ENGINEERED BY:	KAL
DRAWN BY:	MTC

NO.	DATE	REVISION

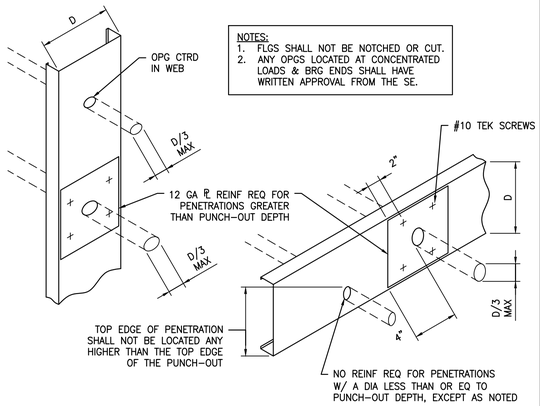
MISCELLANEOUS DETAILS

SHEET NO:

S5.2

LICENSED ARCHITECT MARK DAVID KAM No. C-31138 REG. 31.10.22 STATE OF CALIFORNIA

L:\Jobs\19\19835 MEM 2019 CBC PC\ACAD\STRUCT\S5.2-2019 CBC PC.dwg Time/Date=16.2021-04:42pm Login=cmachorro Dimscale=1 LTScale=6

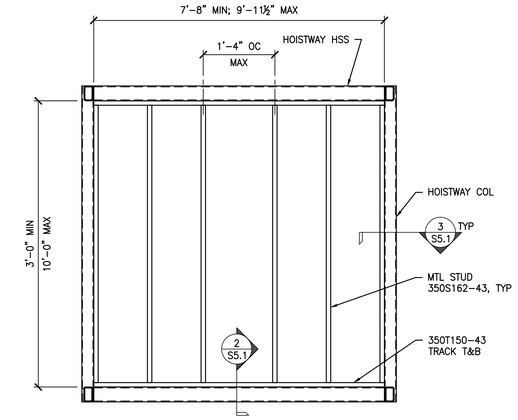


NOTES:
1. FLGS SHALL NOT BE NOTCHED OR CUT.
2. ANY OPGS LOCATED AT CONCENTRATED LOADS & BRG ENDS SHALL HAVE WRITTEN APPROVAL FROM THE SE.

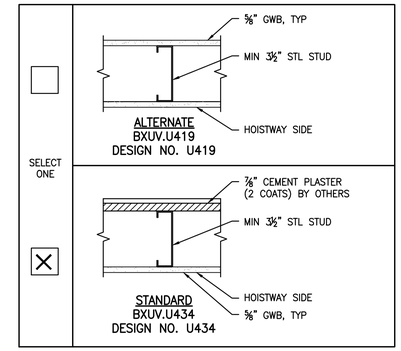
PENETRATION DETAIL
10 / S5.3 NTS

NOT USED

7 / S5.3 DETAIL

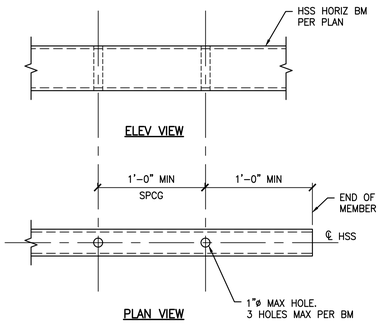


HOISTWAY WALL PANEL ELEVATION
4 / S5.3 1/2" = 1'-0"

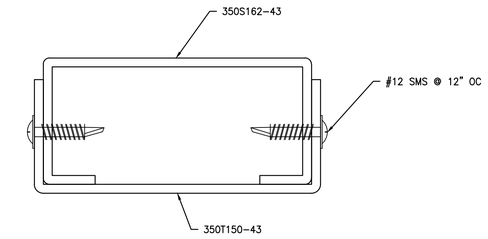


NOTES:
1. SEE SHT S5-1 FOR NON-RATED WALL CONDITION.
2. ALL ENTRANCE WALLS MUST BE FIRE RATED, TYP.
3. SEE TABLE ON 2/S5-1 OR 2/S5-2 FOR WALL SELECTOR.
4. PANELS VIEWED FROM INSIDE OF HOISTWAY.
5. 2-HOUR FIRE RATED ASSEMBLY WILL CONSIST OF TWO LAYERS OF ⅝" TYPE X GWB INSIDE & OUTSIDE OF TOWER UTILIZING 3½" STUDS. ASSEMBLY IS BASED UPON UL DESIGN NO. U419.

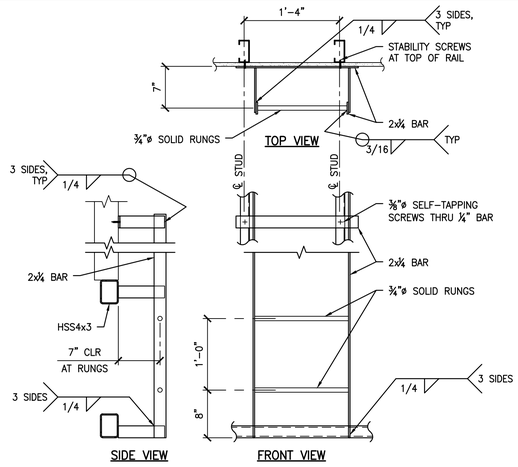
ONE-HOUR RATED WALL TYPES
1 / S5.3 NTS



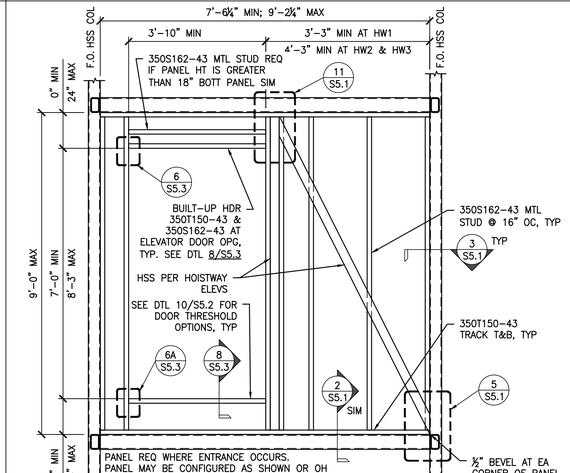
PENETRATION HORIZ OR DIAG HSS DETAIL
11 / S5.3 1 1/2" = 1'-0"



DOOR ENTRANCE TRACK ASSEMBLY DETAIL
8 / S5.3 NTS



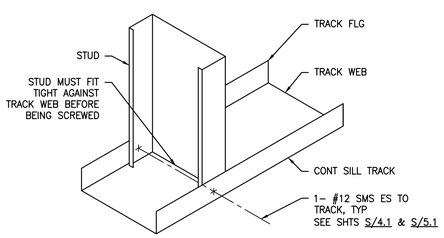
PIT LADDER DETAIL
5 / S5.3 1" = 1'-0"



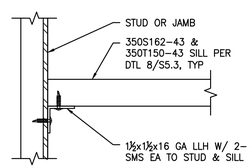
HOISTWAY ENTRANCE ELEVATION
2 / S5.3 1/2" = 1'-0"

NOT USED

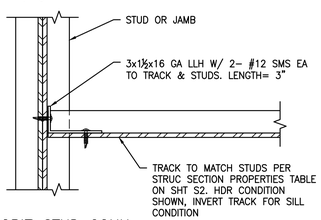
12 / S5.3 DETAIL



STUD TO TRACK CONN DETAIL
9 / S5.3 NTS



DOOR ENTRANCE TRACK CONN DETAIL
6A / S5.3 3" = 1'-0"



HORIZ STUD CONN DETAIL
6 / S5.3 3" = 1'-0"

NOT USED

3 / S5.3 DETAIL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

PRE-CHECK (PC) DOCUMENTS
2019 CBC CODE
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

S.E. PC APPROVAL

REGISTERED PROFESSIONAL ENGINEER
MARK D. CARLSON
No. S3380
STRUCTURAL
STATE OF CALIFORNIA
10/28/2021

MODULAR ELEVATOR MANUFACTURING, INC.
P.O. BOX 3998
CHATSWORTH, CA. 91313
800-755-9359

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-119748 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/28/2021

MEM INC
MODULAR ELEVATOR MANUFACTURING

THIS INFORMATION IS CONFIDENTIAL AND REMAINS THE PROPERTY OF MODULAR ELEVATOR MANUFACTURING, INC. ITS USE, REPRODUCTION OF, OR DESSEMINATION WITHOUT THE EXPRESS PERMISSION OF MODULAR ELEVATOR MANUFACTURING, INC. IS STRICTLY PROHIBITED.

PROJECT NO:	19835
DATE:	09/15/2021
ENGINEERED BY:	KAL
DRAWN BY:	MTC

NO.	DATE	REVISION

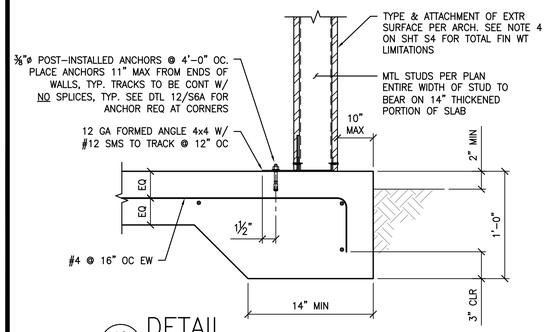
HOISTWAY WALL PANELS

SHEET NO:

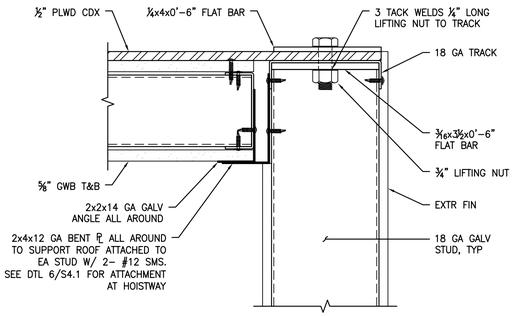
S5.3

LICENSED ARCHITECT
MARK D. CARLSON
No. C-31138
REN: 08-31-23
STATE OF CALIFORNIA

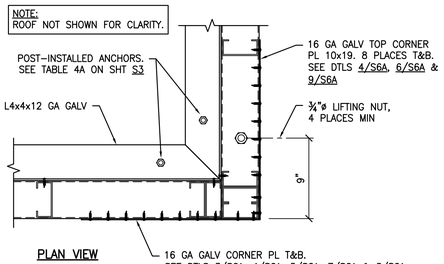
L:\Jobs\P\19835 MEM 2019 CBC PC\CAD\STR\S5.3 2019 CBC PC.dwg Time/Date:15.2021-04:58pm Login:Kal\A Dimension\ LTScale:6



10/S6 DETAIL
NTS



ROOF TO WALL CONN
11/S6 DETAIL
NTS

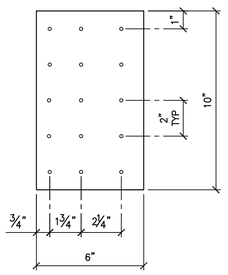


CORNER CONN
12/S6 DETAIL
NTS

NOTES:
1. FIRE-RETARDANT PLWD IS REQ FOR TYPE II CONSTR.
2. IF 15/32" CDX PLWD IS ATTACHED ON 3 SIDES (EXCEPT DOORWAY) DIRECTLY TO STUDS W/ #8 SMS @ 6" OC AT PLWD PANEL EDGES & 12" OC AT INTERMEDIATE MEMBERS, THEN FLAT STRAP BRCG IS NOT REQ.

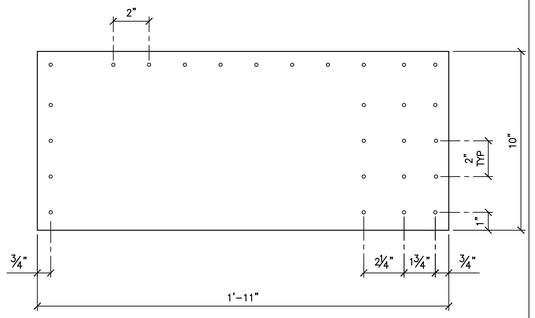
TABLE 8 EQUIP ROOM DIMS					
	☒SIDE	☐REAR (HW1)	☐REAR (HW2)	☐REAR (HW3)	☐REMOTE
MA (MAX)	7'-6 3/4"	8'-2 3/4"	9'-3"	9'-11 1/4"	9'-4 1/4"
MB	6'-10 3/4"	7'-6 1/2"	8'-7"	9'-3 1/4"	8'-5 3/4"

EQUIP ROOM DIMS
13/S6 TABLE
NTS



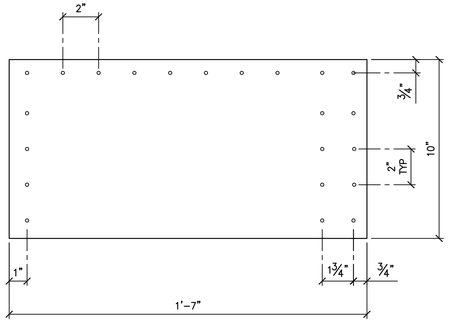
NOTE:
ATTACH GUSSET TO STUDS & TRACK W/ 15- #12 SMS MIN, TYP.

16 GA GALV CORNER PLATE
7/S6 DETAIL
3" = 1'-0"



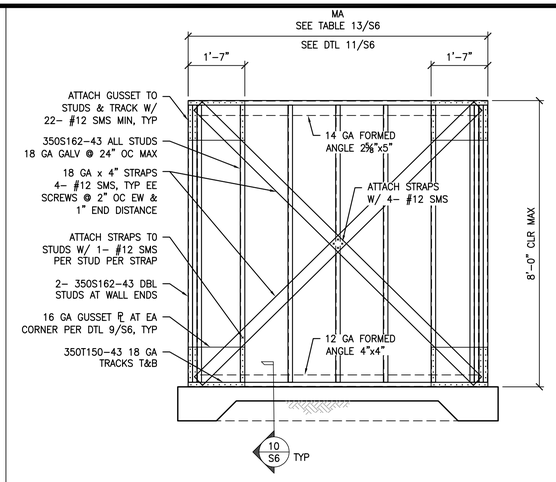
NOTE:
ATTACH GUSSET TO STUDS & TRACK W/ 27- #12 SMS MIN, TYP.

16 GA GALV CORNER PLATE
8/S6 DETAIL
3" = 1'-0"

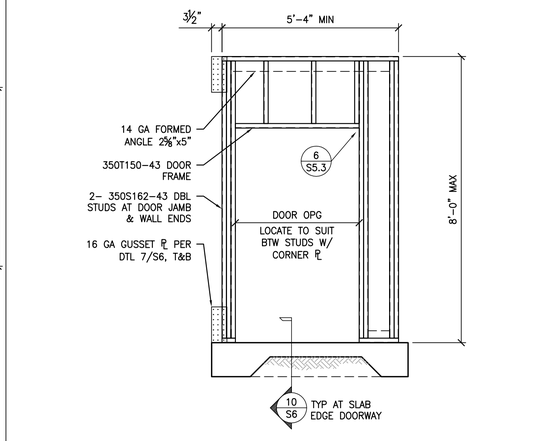


NOTE:
ATTACH GUSSET TO STUDS & TRACK W/ 22- #12 SMS MIN, TYP.

16 GA GALV CORNER PLATE
9/S6 DETAIL
3" = 1'-0"

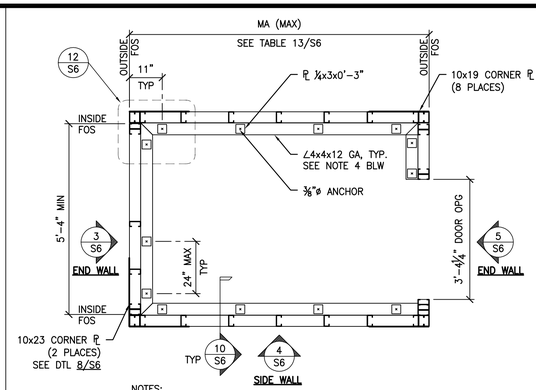


SIDE WALL
4/S6 ELEVATION
1/2" = 1'-0"



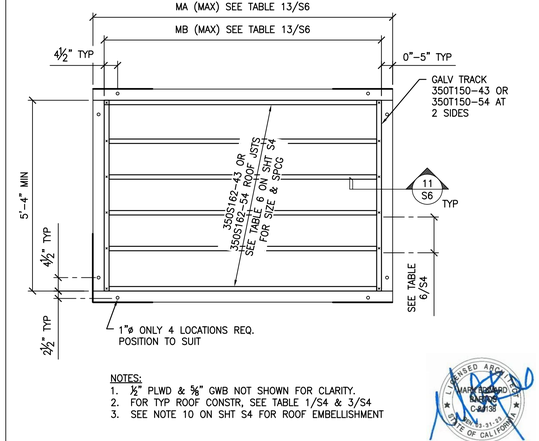
END WALL W/ DOOR
5/S6 ELEVATION
3" = 1'-0"

SIDE WALL W/ DOOR
6/S6 ELEVATION
3" = 1'-0"



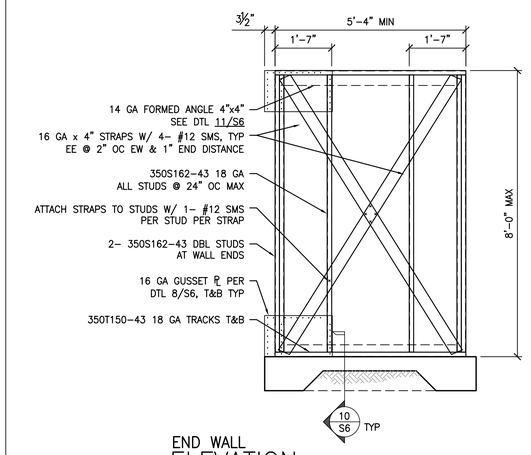
NOTES:
1. DETACHED SHOWN. FOR ADJ EQUIP ROOM, DELETE APPROPRIATE WALL & COORD W/ DTL 7/S4.1.
2. ONE (1) DOOR PER MER. LOCATION BASED ON PUMP UNIT CLEARANCE.
3. DOOR MAY OCCUR ON EITHER SIDE OR END WALL.
4. FOR ATTACHED EQUIP ROOM FLR ANGLE IS REPLACED AT SIDE ADJ TO ELEVATOR W/ ∠6x6x12 GA. SEE DTL 5/S4.1
5. SEE 1/S5.3 FOR WALL TYPE.

EQUIP ROOM
1/S6 PLAN
NTS



NOTES:
1. ½" PLWD & ⅝" GWB NOT SHOWN FOR CLARITY.
2. FOR TYP ROOF CONSTR, SEE TABLE 1/S4 & 3/S4
3. SEE NOTE 10 ON SHT S4 FOR ROOF EMBELLISHMENT

EQUIP ROOF
2/S6 FRAMING PLAN
NTS



END WALL
3/S6 ELEVATION
NTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

PRE-CHECK (PC) DOCUMENTS
2019 CBC CODE
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

S.E. PC APPROVAL

REGISTERED PROFESSIONAL ENGINEER
MANUEL D. KAHAN
No. S3380
STRUCTURAL
STATE OF CALIFORNIA
10/28/2021

MODULAR ELEVATOR MANUFACTURING, INC.
P.O. BOX 3998
CHATSWORTH, CA. 91313
800-755-9359

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-119748 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/28/2021

MEM INC
MODULAR ELEVATOR MANUFACTURING

THIS INFORMATION IS CONFIDENTIAL AND REMAINS THE PROPERTY OF MODULAR ELEVATOR MANUFACTURING, INC. ITS USE, REPRODUCTION OF, OR DESSEMINATION WITHOUT THE EXPRESS PERMISSION OF MODULAR ELEVATOR MANUFACTURING, INC. IS STRICTLY PROHIBITED.

PROJECT NO:	19835
DATE:	09/15/2021
ENGINEERED BY:	KAL
DRAWN BY:	MTC

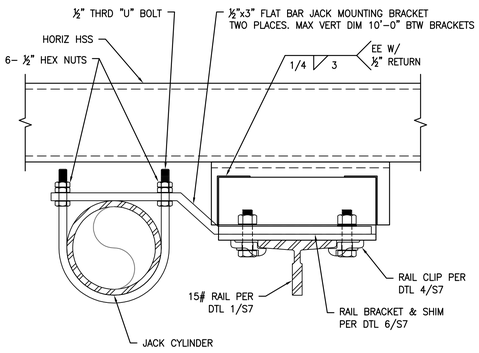
NO.	DATE	REVISION

MACHINE ROOM FRAMING PLAN & DETAILS (PARTIAL MACHINE ROOM)

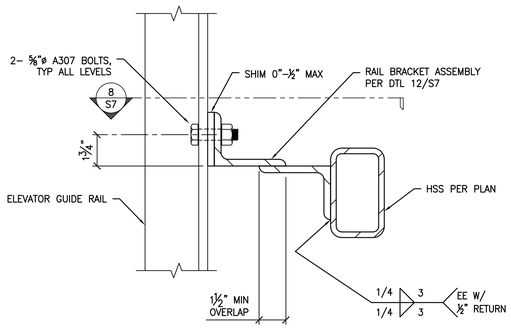
SHEET NO:
S6

LICENSED ACCESS CONSULTANT
MARK ROSENBERG
No. 31
EXP. 8-31-21
STATE OF CALIFORNIA

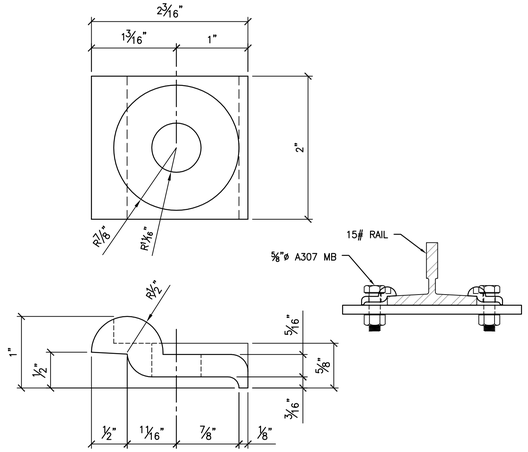
J:\Jobs\19835 MEM 2019 CBC PC\CAD\STR\A\S6-2019 CBC PC.dwg Time:Oct/26/2021 - 06:23pm Login:somchom Xrefs:ste1 LTScale:6



HOLELESS JACK BRACKET
10/S7 DETAIL
NTS



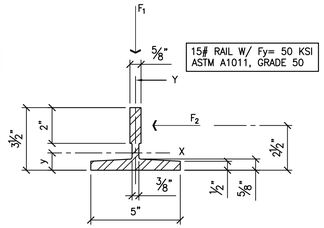
RAIL BRACKET CONN
7/S7 DETAIL
3" = 1'-0"



RAIL CLIP
4/S7 DETAIL
NTS

MAX SEISMIC REACTION		
ELEVATOR CAPACITY	4000 LBS MAX	
	NORMAL	SEISMIC
F1	287	2212
F2	140	962

NOTE: BASED UPON 15# RAILS.
MAX RAIL BRACKET SPCG = 9'-4".

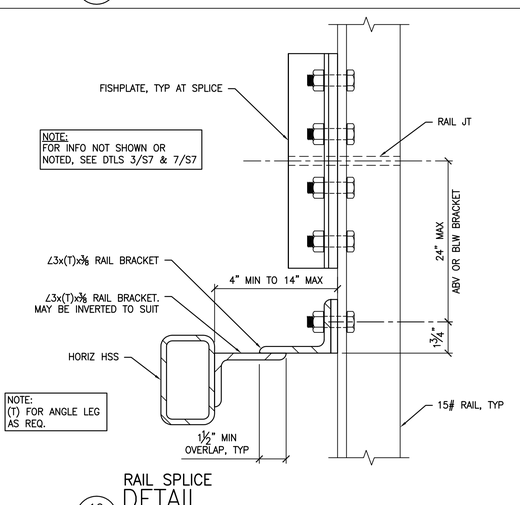


15# RAIL W/ Fy= 50 KSI
ASTM A1011, GRADE 50

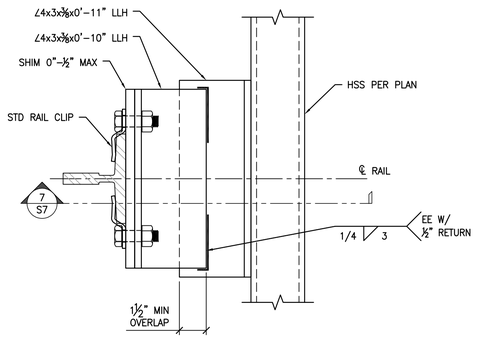
TYPE RAIL	AREA	AXIS X-X				AXIS Y-Y		
		DISTANCE TO BACK OF FLG	MOMENT OF INERTIA	SECTION MODULUS	RADIUS OF GYRATION	MOMENT OF INERTIA	SECTION MODULUS	RADIUS OF GYRATION
15#	4.44	y	I	s	r	I	s	r
		0.97	4.77	1.89	1.04	5.53	2.21	1.11

NOTE: MAX BRACKET SPCG 9'-4"

#15 RAIL SECTION
1/S7 DETAIL
3" = 1'-0"

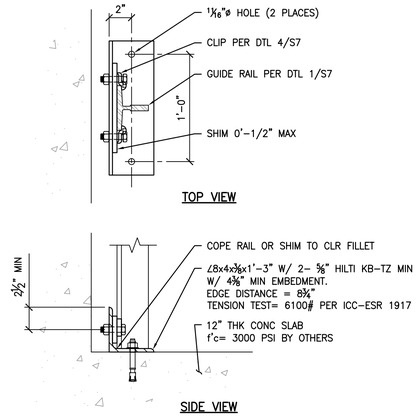


HOLELESS JACK UNIT
TO GROUND CONNECTION
11/S7 DETAIL
NTS

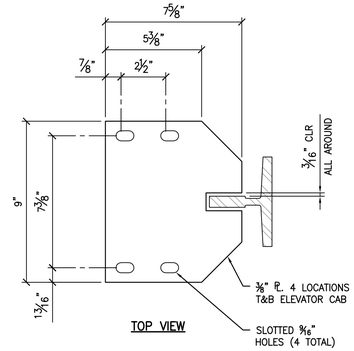


NOTE:
BRACKET WIDTH MAY BE ADJUSTED TO ALLOW FOR VARIATION IN HOISTWAY, HOWEVER, MIN ANGLE OVERLAP MUST BE MAINTAINED AS NOTED.

RAIL BRACKET CONN
8/S7 DETAIL
3" = 1'-0"

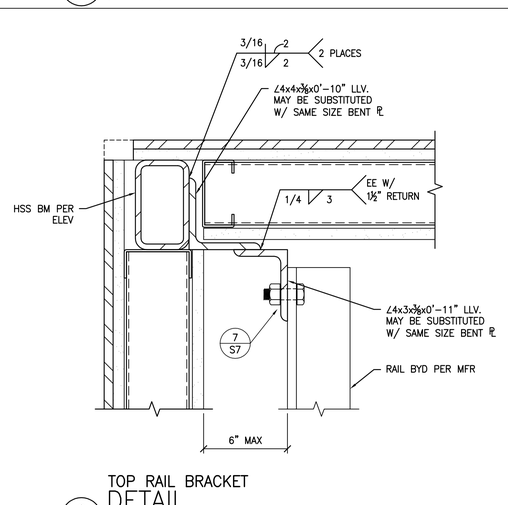


OPTIONAL RAIL FLR BRACKET
5/S7 DETAIL
1 1/2" = 1'-0"

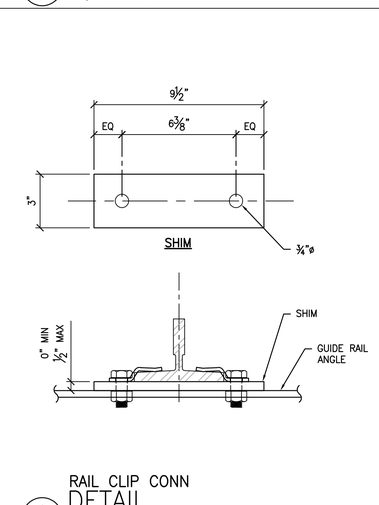


RAIL RETAINER PLATE
2/S7 DETAIL
3" = 1'-0"

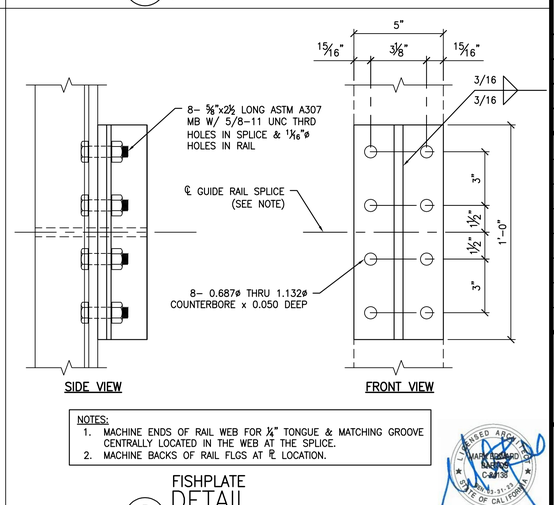
RAIL SPLICE
12/S7 DETAIL
3" = 1'-0"



TOP RAIL BRACKET
9/S7 DETAIL
3" = 1'-0"



RAIL CLIP CONN
6/S7 DETAIL
3" = 1'-0"



NOTES:
1. MACHINE ENDS OF RAIL WEB FOR ¼" TONGUE & MATCHING GROOVE CENTRALLY LOCATED IN THE WEB AT THE SPLICE.
2. MACHINE BACKS OF RAIL FLGS AT ℄ LOCATION.

FISHPLATE
3/S7 DETAIL
3" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

PRE-CHECK (PC) DOCUMENTS
2019 CBC CODE
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

S.E. PC APPROVAL

REGISTERED PROFESSIONAL ENGINEER
MANUEL D. KAHAN
No. S3380
STRUCTURAL
STATE OF CALIFORNIA
10/28/2021

MODULAR ELEVATOR MANUFACTURING, INC.
P.O. BOX 3998
CHATSWORTH, CA. 91313
800-755-9359

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-119748 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/28/2021

MEM INC
MODULAR ELEVATOR MANUFACTURING

THIS INFORMATION IS CONFIDENTIAL AND REMAINS THE PROPERTY OF MODULAR ELEVATOR MANUFACTURING, INC. ITS USE, REPRODUCTION OF, OR DESSEMINATION WITHOUT THE EXPRESS PERMISSION OF MODULAR ELEVATOR MANUFACTURING, INC. IS STRICTLY PROHIBITED.

PROJECT NO:	19835
DATE:	09/15/2021
ENGINEERED BY:	KAL
DRAWN BY:	MTC

NO.	DATE	REVISION

RAIL & POWER UNIT DETAILS

SHEET NO:
S7

LICENSED ARCHITECT
MARK TERRANCE SAMUELS
No. C-41131
STATE OF CALIFORNIA

L:\Jobs\19835 MEM 2019 CBC PC\CAD\STR\S7 2019 CBC PC.dwg TimeSep16,2021-04:42pm Loginconnaborn Dinosaur/8.1Scale:6

THE FOLLOWING REQUIREMENTS ARE TO BE PROVIDED BY GENERAL CONTRACTOR UNLESS OTHERWISE NOTED :

1. Setting of anchor bolts and sleeves, plumb and level GC MUST utilize the setting template provided by Elevator Contractor. GC must insure that anchor bolts and sleeves are properly secured to avoid movement during concrete pour, are clean of all debris prior to setting of the hoistway, and are positioned as per plans and verified.
2. Any concrete sleaving or coring, if required, of the pit walls for feedline and electrical conduit penetrations. Sleaving or coring to be performed AFTER hoistway is set in place. All water proofing.
3. Any grouting of the sills or hoistway frames, if required.
4. Machine room slab and foundation as required.
5. All Electrical service to the elevator machine room along with verification of main line power in writing. All electrical must comply with the current version of the California Electric Code (CEC) and / or the National Electric Code (NEC) as they apply for new elevator installations. GC shall provide the following:
   a. Electrical service to the machine room and connection to the disconnect must be stubbed out in the proper location within machine room.
   b. All electrical wiring, including low voltage wiring, within the machine room must be EMT or rigid conduit.
   c. Electrical service to elevator motor as indicated on the elevator drawings. (See elevator layout drawings).
   d. 110 V 20 amp dedicated service for elevator car
   e. 110 V 20 amp dedicated service for the hoistway.
   f. 110 V 20 amp dedicated service for machine room circuit
   g. Dedicated telephone line to the machine room terminated at a jack, and live. (Ring down features are not acceptable.) GC is responsible for submitting the telephone number to be programmed into elevator telephone system, and the actual telephone number of the dedicated telephone line for the elevator.
   h. Smoke detector in machine room with one set of normally closed dry contacts for the elevator.
   i. Fire signaling device at each landing with one set of normally closed dry contacts (egress floor must be “closed” contacts) for the elevator, wired back to the machine room and must be operational.
   j. Grounding of the hoistway and equipment room structures including grounding and lightening rods.
6. The machine room cannot be used for the storage of ANY items.
7. All trenching from machine room to pit. Trench must be 18” - 24” wide. Trenching is required for ALL remote machine room applications. All trenching must be done prior to the pouring of the machine room slab, piping will be run in trench from machine room location to outside of the pit wall and terminated until elevator is set. If elevator can be set prior to machine room pad being poured then full run can be completed in trench from hoistway to the machine room.
8. Underground secondary pipe containment (double wall pipe) drainage point to be provided at point convenient to piping system and with services at that drainage point for leak detection devices. (If required.)
9. Leak detection signaling device to be located within 10’ of actual detection device. (If required.)
10. All back filling. Back filling must be coordinated with the elevator contractor after all feedlines and conduits have been installed and tested.
11. Access to the hoistway for other trades is not included. Stand-by time shall be considered an additional cost and billed at elevator company published service rates.
12. Electrical, plumbing or mechanical equipment may not be placed or run in the hoistway or machine room unless approved by Elevator Contractor.
13. All inspections and fees for any government mandated factory inspections. Arrangements must be made prior to production commencement.
14. GC shall be responsible for insuring that at time of delivery the site will be ready for setting of the elevator
    a. All forms are removed from the pit
    b. Pit dry.
    c. Anchor bolts are clean and sleeves clear of debris.
    d. Crane access available.
15. GC to insure that pit is kept in a dry condition and structure is protected from inclement weather. Damaged materials and / or extra labor resulting from water shall be an extra cost to the elevator contract.
16. Execution of crane company’s waiver of liability forms.
17. GC shall be responsible for any damage resulting from driving crane onto site, being set onto the site and during the placement of the elevator hoistway. This includes, but not limited to damage to: Trees, any concrete, curbs, driveways, walkways, lawns, asphalt, gates, fences and underground utilities.
18. GC is responsible for appropriate site access for crane set and equipment delivery. A minimum 70-foot working radius is required for the crane. This includes but is not limited to:
    a. Traffic control
    b. Special provisions related to power lines, trees, occupied buildings, FAA permits, etc.
    c. Any and all fencing removal and replacement for crane and truck access.
    d. All removal must be done prior to arrival of crane on site.
    e. Any and all vegetation removal or trimming for crane and truck access to elevator final destination.
    f. Protection to all concrete, asphalt, curbs, walkways, building and underground structures, landscaping affected by crane and truck access and set.
19. Unless otherwise noted: Crane set of elevator is based elevator set taking place mid-week mornings between 7:00 AM and 11:00 AM with 70-ton crane.
20. Structural attachment of hoistway to existing structure. (if required)
21. Removal of any obstructions necessary to install the equipment.
22. Site gurney compliance via stairs or other means, if required.
23. Installation of any building expansion joints, if required.
24. For holed elevators only, the cost for drilling the wellhole is based upon four (4) hours of drilling; utilizing a standard truck mounted drilling rig and drilling through normal soil conditions. GC is responsible to provide free, unobstructed access to the site for our truck mounted drill rig. Free access means adequate and unrestricted access to the pit as required for the move-in of equipment for the purpose of drilling the cylinder well. Should driller encounter any obstruction, including but not limited to rock, boulder, water, quicksand or any other unusual soil condition or should driller be required to utilize any special tools, an additional cost will be added to the Contract. Any costs beyond drillers standard drilling shall be considered as a result of conditions beyond the reasonable control of Elevator Contractor. & those additional costs will be charged back to the GC. All drilling spoils are to be removed.
25. Cab flooring and appropriate sub-flooring.
26. Vent in machine room. Machine room temperature shall not be lower than 40 degrees Fahrenheit or exceed 104 degrees Fahrenheit or exceed manufacturer’s recommendations.
27. Venting of hoistway (only applicable for elevators with more than two stops).
28. Sprinklers, or heat sensors in the machine room and / or hoistway (if required). If sprinklers are provided, the shunt trip devices must also be provided.
29. Flashing between structures at locations including, but not limited to, the: pit, slab, modular equipment room roof and hoistway. These locations must be detailed and provided for water tightness.
30. “ABC” type fire extinguisher in machine room.
31. Exterior finish of the hoistway and machine room.
32. Exterior and interior painting or finishing.
33. Parapets, downspouts, scuppers, embellishments as well as any other modifications beyond details shown on manufacture’s shop drawings .
34. Finished roofing.
35. Verification of correctness of placement of elevator pit is by others. Elevator company is to install elevator in pit provided by others.
36. Elevator travel. Verification of elevator travel between floors for reliance by elevator manufacturer in writing. Elevator travel for manufacturing purposes shall be depicted in MEM shop drawings.
37. Submittal review of other trades by MEM or SEOR shall be at an extra charge.
38. Protection of all landings of hoistway.

MAX FORCES ON PIT FLOOR

LOCATION	FORCE IN LBS.
AT JACK (BOTH)	13,740
AT EA. BUFFER	14,740

BUFFERS ARE LOCATED APPROX. 12" FROM ℄ OF JACK UNIT IN A LINE PARALLEL TO WIDTH OF HATCH

MAXIMUM ALLOWABLE SPECIFICATION & DATA

MODEL	ALL
CAPACITY (LBS)	4000
HOISTWAY MODEL	ALL
TYPE	PASSENGER
OPERATION	SIMPLEX COLLECTIVE
LOADING	CLASS A
POWER SUPPLY	208 - 480 VOLTS / 3 PH / 60 HZ
MOTOR STARTER	VARIES
CONTROL TYPE	MICROPROCESSOR
DOOR OPERATOR	GAL MOVFR II
SPEED (FPM)	100 - 150 FPM
LANDINGS	2 TO 4
OPENINGS	2 FRONT / 2 REAR
TRAVEL	37'-9" MAX
CROSSHEAD	C5 X 9#
STILE	C8 X 11.5#
PLANK	C6 X 10.5#
GUIDE RAILS	15# (Fy= 50 KSI)
PLATFORM SIZE (INCHES)	92" X 72"
PLATFORM THICKNESS	3.25 INCHES
FINISHED FLOOR THICKNESS	0.25 INCHES
GUIDE SHOES	SLIDING SWIVEL
BUFFERS (QTY)	SPRING (2)
RATING:	10655 LBS EACH
STROKE:	2.5 INCHES
WEIGHTS	
HOISTWAY DOOR	275
CAR DOOR	275
PISTON WEIGHT (MAXIMUM)	1200
CAR WEIGHT	4000
GROSS WEIGHT (MAXIMUM)	9000
PRESSURE & FLOW	
STATIC PRESSURE (PSI)	235
WORKING PRESSURE : (PSI)	500
G.P.M.	124
PUMP UNIT	
MOTOR HP	50
MOTOR RPM	3400
FULL LOAD AMPS	150
STARTING AMPS	307
PUMP	TO SUIT
PUMP RPM	1800
VALVE	TO SUIT
VALVE VOLTAGE	120 VOLTS
FEED PIPE SIZE	SIZE TO SUIT. SCHED. 80
HYDRAULIC JACKS	
TYPE	ALL TYPES
PLUNGER O.D	6.5"
PLUNGER LENGTH	40'-0"
CYLINDER O.D.	8.63"
CYLINDER WALL THICKNESS	0.801"
CYLINDER LENGTH	40'-0"
TOP OVERTRAVEL	24"
BOTTOM OVERTRAVEL	11"
MACHINE ROOM	
POSITION	ATTACHED OR REMOTE
HOISTWAY ENTRANCE	
TYPE	SINGLE SLIDE OR 2 SPEED
SIZE	4'0" X 8'-0"
DOOR WEIGHT	275
CAB	
STYLE	METAL
HEIGHT	10'-0"
CAR DOOR OPERATION	SINGLE SLIDE OR 2 SPEED
SIGNALS	
HALL	PER CODE. SEE 7/VT4
CAR	PER CODE. SEE 8/VT4

NOTE:TABLE ABOVE SHOWS MAXIMUM VALUES ALLOWED. FOR SPECIFIC JOB VALUES SEE THE SD-1 SUBMITTAL DRAWING.

ALL SPECIFIED ITEMS SHOWN ARE RECOMMENDED AND "OR EQUAL" PRODUCTS MAY BE SUBSTITUTED.

LICENSED ARCHITECT MARK T. CHAPMAN No. C-40138 RENEWAL 08-31-2023 STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

PRE-CHECK (PC) DOCUMENTS
2019 CBC CODE
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

S.E. PC APPROVAL

REGISTERED PROFESSIONAL ENGINEER MARK D. CHAPMAN No. S3380 STRUCTURAL STATE OF CALIFORNIA

10/28/2021

MODULAR ELEVATOR MANUFACTURING, INC.
P.O. BOX 3998
CHATSWORTH, CA. 91313
800-755-9359

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-119748 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/28/2021

MEM INC
MODULAR ELEVATOR MANUFACTURING

THIS INFORMATION IS CONFIDENTIAL AND REMAINS THE PROPERTY OF MODULAR ELEVATOR MANUFACTURING, INC. ITS USE, REPRODUCTION OF, OR DESSEMINATION WITHOUT THE EXPRESS PERMISSION OF MODULAR ELEVATOR MANUFACTURING, INC. IS STRICTLY PROHIBITED.

PROJECT NO: 19835
DATE: 09/15/2021
ENGINEERED BY: KAL
DRAWN BY: MTC

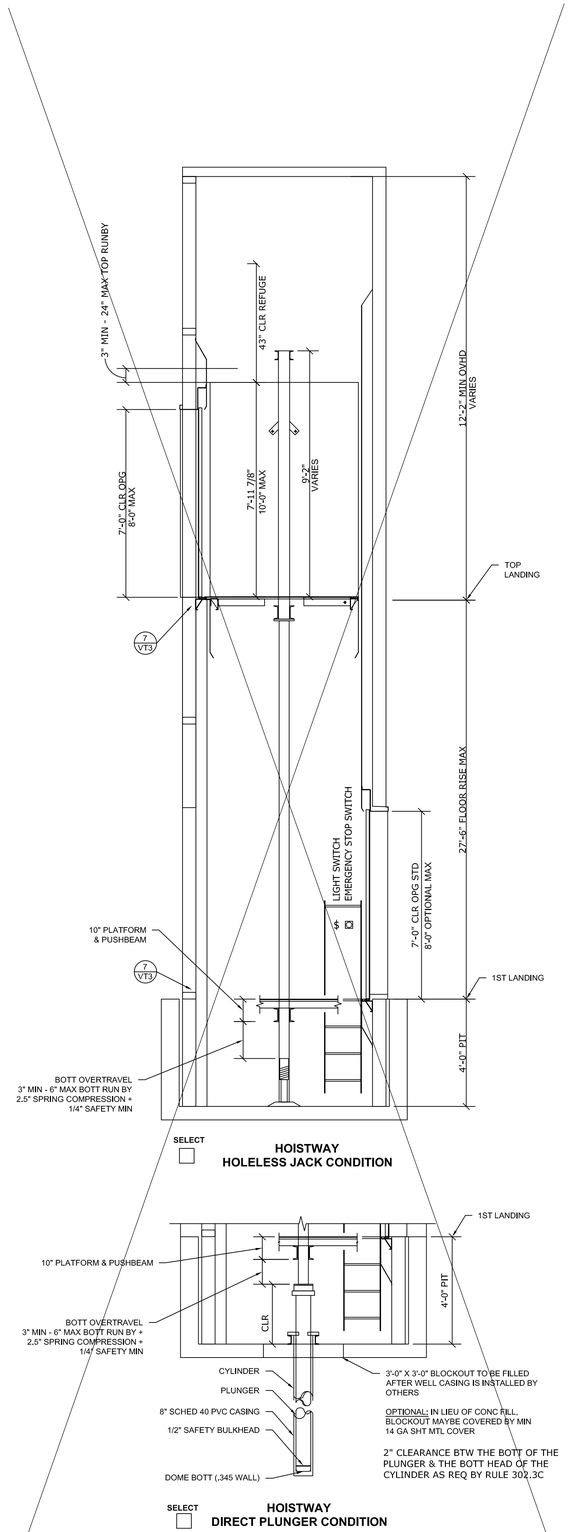
NO.	DATE	REVISION

ELEVATOR DATA

SHEET NO:

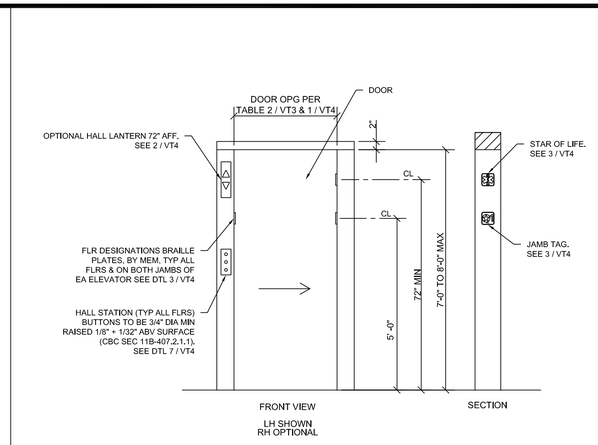
VT1

L:\Jobs\19\19835_MEM_2019_CBC_PC\ACAD\STR\VT1_2019_CBC_PC.dwg, Time/Date:15:2021--04:59pm, Login/Cad/P. Dimpsted, LTScale:0.5

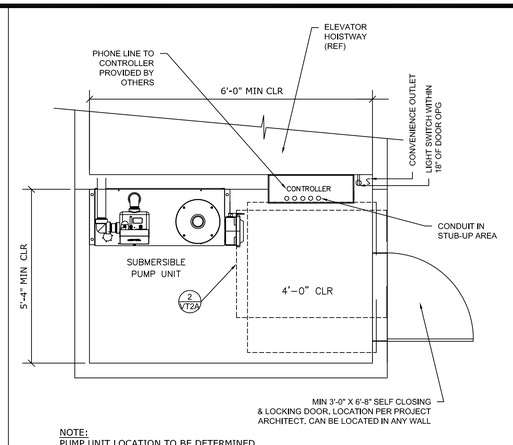


6 VT2 HOISTWAY SECTION
NTS

NOTE:
THIS DTL DEPICTS ELEVATOR COMPONENTS ONLY.
SEE STRUC DWGS FOR FOUNDATION & HOISTWAY.

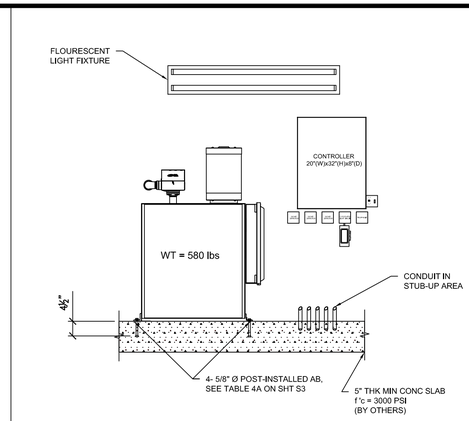


5 VT2 HOISTWAY ENTRANCE
NTS

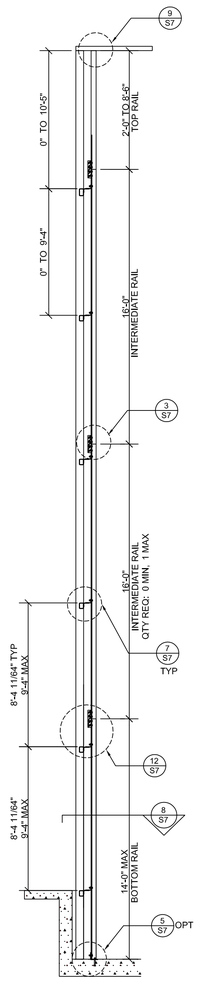


NOTE:
PUMP UNIT LOCATION TO BE DETERMINED.

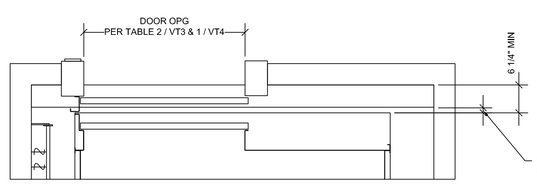
3 VT2 EQUIPMENT ROOM PLAN
NTS



2 VT2 TANK UNIT CONNECTION
NTS

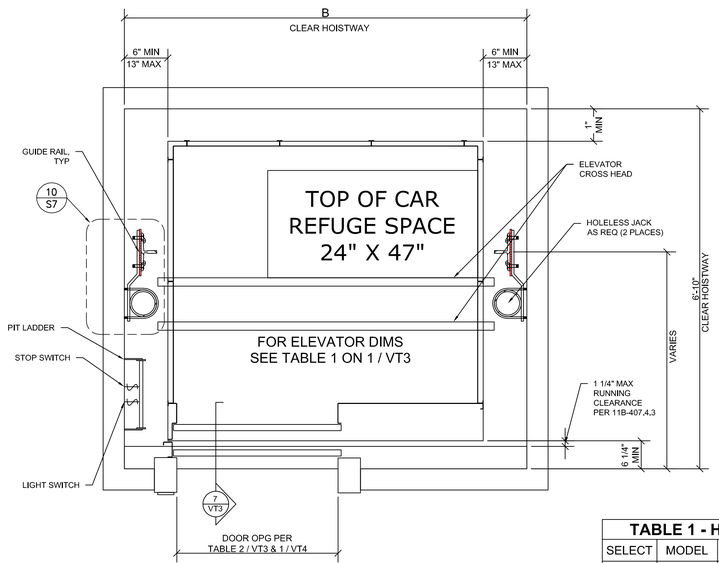


4 VT2 RAIL - BRACKET LAYOUT
NTS



OPTIONAL REAR ENTRANCE

NOTE:
ELEVATOR ENTRANCES MAY
NOT OCCUR ON ADJ SIDES.



NOTE:
LEFT HAND SIDE OPG SHOWN.
RIGHT HAND SIDE OPG OPPOSITE.

1 VT2 PLAN VIEW
NTS

TABLE 1 - HOISTWAY SELECTOR

SELECT	MODEL	HOISTWAY	A	B
☐	2000 R	HW-1	6'-10"	7'-6"
☐	2500	HW-1	6'-10"	7'-6"
☐	2500 R	HW-2	6'-10"	8'-6"
☐	3000	HW-2	6'-10"	8'-6"
☐	3000 GR	HW-3	6'-10"	9'-2"
☒	3500 G	HW-2	6'-10"	8'-6"
☐	3500 G	HW-3	6'-10"	9'-2 1/2"
☐	4000 G	HW-3	6'-10"	9'-2 1/2"
☐	4000 MAX	CUSTOM SIZE TO SUIT		
G-GURNEY COMPLIANT PER 3002.4A				
R-REVERSE OPENING				

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

PRE-CHECK (PC) DOCUMENTS
2019 CBC CODE
A SEPARATE PROJECT APPLICATION FOR
CONSTRUCTION IS REQUIRED.

S.E. PC APPROVAL

REGISTERED PROFESSIONAL ENGINEER
MARK T. BOARD
No. S3380
STRUCTURAL
STATE OF CALIFORNIA
10/28/2021

MODULAR ELEVATOR MANUFACTURING, INC.
P.O. BOX 3998
CHATSWORTH, CA. 91313
800-755-9359

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-119748 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/28/2021

MEM INC
MODULAR ELEVATOR MANUFACTURING

THIS INFORMATION IS CONFIDENTIAL AND REMAINS THE PROPERTY OF MODULAR ELEVATOR MANUFACTURING, INC. ITS USE, REPRODUCTION OF, OR DESSEMINATION WITHOUT THE EXPRESS PERMISSION OF MODULAR ELEVATOR MANUFACTURING, INC. IS STRICTLY PROHIBITED.

PROJECT NO:	19835
DATE:	09/15/2021
ENGINEERED BY:	KAL
DRAWN BY:	MTC

NO.	DATE	REVISION

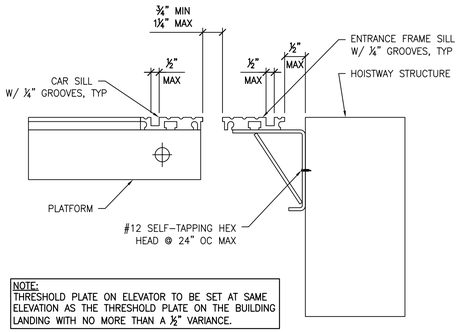
ELEVATOR LAYOUT
(PARTIAL MACHINE
ROOM)

SHEET NO:

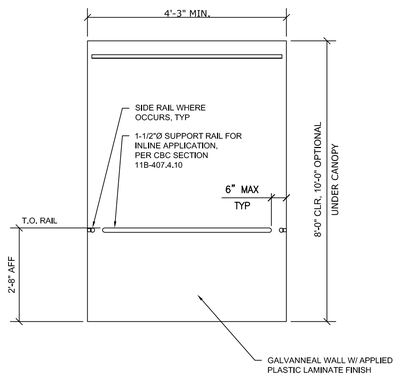
VT2

REGISTERED PROFESSIONAL ENGINEER
MARK T. BOARD
No. S3380
STRUCTURAL
STATE OF CALIFORNIA
10/31/23

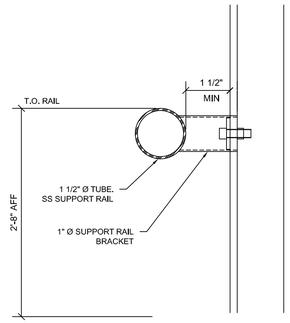
L:\Jobs\19\1983_MEM 2019 CBC PC\ACS\STRUCT\VT2_2019 CBC PC.dwg Time:Sep 16,2021 - 04:42pm Login:cameron Dimscale:1 LTScale:0.5



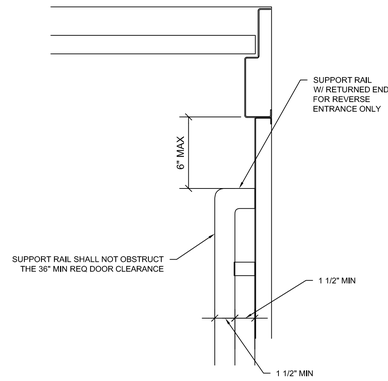
7 / VT3 CAR & HALL SILLS DETAIL
NTS



4 / VT3 REAR WALL
NTS

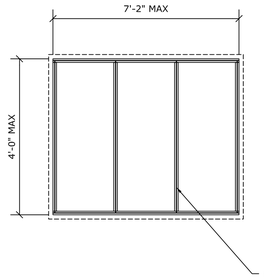


1B / VT3 SECTION THRU SUPPORT RAIL
NTS

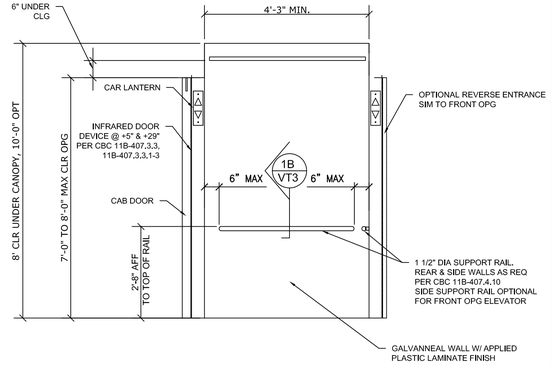


1A / VT3 PLAN: SUPPORT RAIL AT RETURNED END
NTS

NOTE:
DIMS TO SUIT OVERALL CAB ENCLOSURE DIMS.

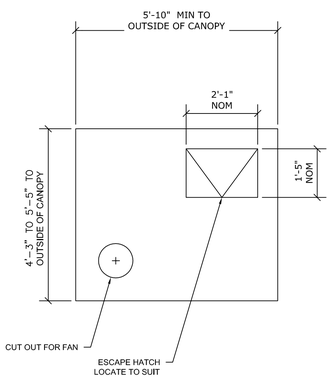


6 / VT3 T-BAR CEILING FRAME FOR ELEVATOR CAR
NTS



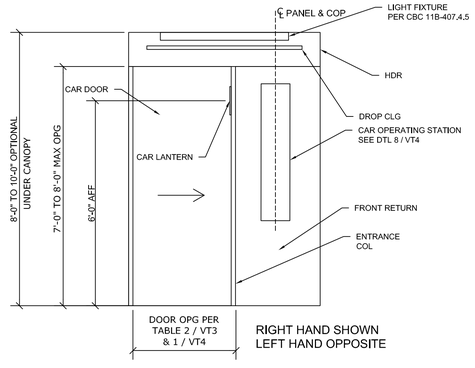
3 / VT3 SIDE WALL
NTS

NOTE:
DIMS TO SUIT OVERALL CAB ENCLOSURE DIMS.



5 / VT3 ELEVATOR CANOPY
NTS

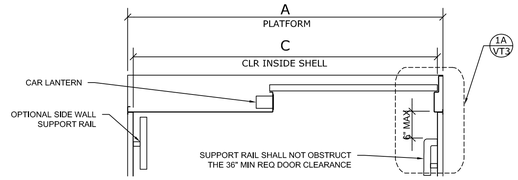
NOTES:
1. REAR RETURN FOR REVERSE ENTRANCE SIM.
2. LIGHT FIXTURE TO PROVIDE A MIN OF 5 FOOT CANDLES AT CONTROL PANEL LANDING & THRESHOLD WHEN CAB LANDING DOORS ARE OPEN (CBC SEC 11B-407.4.5).



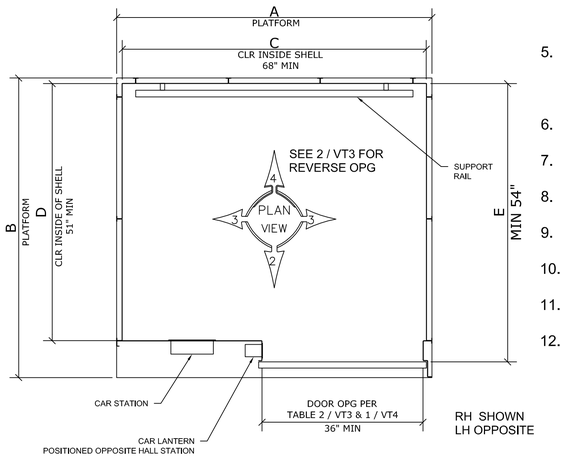
2 / VT3 FRONT RETURN WALL
NTS

TABLE 2 - ELEVATOR DIMENSIONS

		ELEVATORS	PLATFORM		INSIDE CLEAR MIN			MAX AREA	SINGLE SPEED SIDE SLIDE OPEN AS
SELECT ONE	HW SIZE		A	B	C	D	E		PER CBC 3002.4 11B-407.3 MIN DIM
☐	HW1	2000 R	5'-10 1/2"	5'-9"	5'-8"	4'-4 1/2"	4'-7 3/4"	24.9 sq ft	36"
☐	HW1	2500	5'-10 1/2"	5'-8 3/4"	5'-8"	4'-10 1/4"	5'-2 3/4"	28.2 sq ft	36"
☐	HW2	2500 R	6'-10 1/2"	5'-9"	6'-8"	4'-4 1/2"	4'-7 3/4"	29.3 sq ft	42"
☐	HW2	3000	6'-10 1/2"	5'-7 3/4"	6'-8"	4'-10 1/4"	5'-2 3/4"	33.2 sq ft	42"
☐	HW3	3000 GR	7'-5 1/2"	5'-9"	7'-3"	4'-4 1/2"	4'-7 3/4"	31.9 sq ft	42"
☒	HW2	3500 G	6'-10 1/2"	6'-0 1/2"	6'-8"	5'-3"	5'-7 1/2"	35.0 sq ft	42"
☐	HW3	3500 G	7'-5 1/2"	6'-0 1/2"	7'-3"	5'-3"	5'-7 1/2"	38.1 sq ft	42"
☐	HW3	4000 G	7'-9 1/2"	6'-0 1/2"	7'-6"	5'-3"	5'-7 1/2"	44.3 sq ft	42"
☐	HW3	4000 MAX	CUSTOM SIZE TO SUIT					44.3 sq ft	



REVERSE OPENING



FRONT OPENING
SINGLE SPEED SIDE SLIDE

1 / VT3 PLAN
NTS

MANUFACTURING NOTES

1. STRIKE JAM & HEADER: STAINLESS STEEL.
2. CAR DOORS: 16 GA GALVANNEAL, PRIMED FINISH OR STAINLESS STEEL.
3. ENTRANCE COL: 14 GA STAINLESS STEEL.
4. SIDE & REAR WALL PANELS: 14 GA GALVANNEAL W/ AN APPLIED PLASTIC LAMINATE ON THE INTERIOR, OR 14 GA STAINLESS STEEL.
5. CANOPY: 12 GA GALVANNEAL, REFLECTIVE WHITE FINISH ONLY REQ ON THE INSIDE OF CAB, NO PRIME ON THE OUTSIDE.
6. CEILING: T-BAR W/ CLG PANELS.
7. SUPPORT RAIL: 1 1/2: ROUND SUPPORT RAIL.
8. CAR SILL: ALUM W/ A NATURAL FINISH PER 7 / VT3.
9. VENTILATION: FAN & VENT SLOTS IN THE BASE OF THE CAB.
10. CAR DOORS ARE PRE-DRILLED FOR DOOR EQUIP.
11. LIGHTING: FLOURESCENT STRIP LIGHTS.
12. ALL MATERIAL FOR CAR ENCLOSURES SHALL MEET THE REQUIREMENTS OF ASME A17.1, SECTION 204.2.

REGISTERED ARCHITECT MARK T. CLEARY No. C-31135 RENEWAL 08.31.23 STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

PRE-CHECK (PC) DOCUMENTS
2019 CBC CODE
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

S.E. PC APPROVAL

REGISTERED PROFESSIONAL ENGINEER MARK D. CLEARY No. S3380 STRUCTURAL STATE OF CALIFORNIA
10/28/2021

MODULAR ELEVATOR MANUFACTURING, INC.
P.O. BOX 3998
CHATSWORTH, CA. 91313
800-755-9359

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-119748 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/28/2021

MEM INC
MODULAR ELEVATOR MANUFACTURING

THIS INFORMATION IS CONFIDENTIAL AND REMAINS THE PROPERTY OF MODULAR ELEVATOR MANUFACTURING, INC. ITS USE, REPRODUCTION OF, OR DESSEMINATION WITHOUT THE EXPRESS PERMISSION OF MODULAR ELEVATOR MANUFACTURING, INC. IS STRICTLY PROHIBITED.

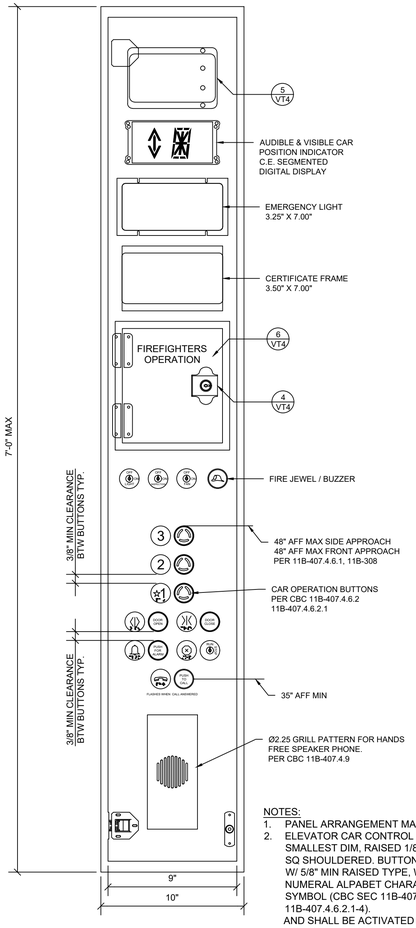
PROJECT NO: 19835
DATE: 09/15/2021
ENGINEERED BY: KAL
DRAWN BY: MTC

NO.	DATE	REVISION

ELEVATOR CAB

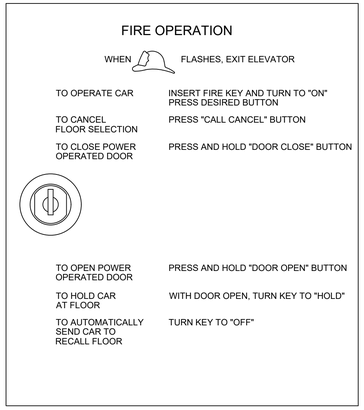
SHEET NO:
VT3

L:\Jobs\19\19835_MEM_2019_CBC_PC\ACAD\STR\VT3_2019_CBC_PC.dwg, Time:Sep16,2021 - 04:42pm, Login:jonathan, Dinosaur1 LTScale:0.5



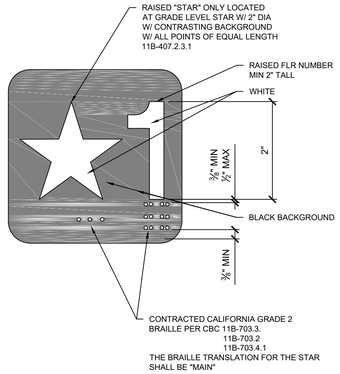
NOTES:
1. PANEL ARRANGEMENT MAY VARY.
2. ELEVATOR CAR CONTROL BUTTONS TO BE 3/4" MIN SMALLEST DIM, RAISED 1/8" ±1/32", ILLUMINATED & SQ SHOULDERED. BUTTONS TO BE DESIGNATED W/ 5/8" MIN RAISED TYPE, WHITE ON BLACK NUMERAL ALPABET CHARACTER OR STANDARD SYMBOL (CBC SEC 11B-407.4.6.2 & 11B-407.4.6.2.1-4). AND SHALL BE ACTIVATED BY A MECHANICAL MOTION THAT IS DETECTABLE.

8 / VT4 CAR OPERATING STATION
NTS



6 / VT4 ANSI PHASE II INSERT
NTS

INTERNATIONAL STAR OF LIFE



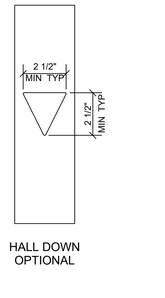
3 / VT4 JAMB TAGS
NTS

NO SMOKING

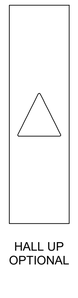
CAPACITY XXXX LBS.

2000 ☒
2500 ☐
3000 ☐
3500 ☐
4000 ☐

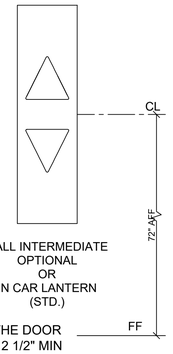
5 / VT4 SIGNAGE
NTS



HALL DOWN OPTIONAL



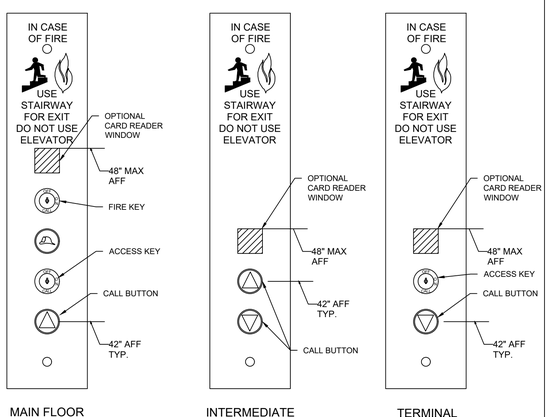
HALL UP OPTIONAL



HALL INTERMEDIATE OPTIONAL OR IN CAR LANTERN (STD.)

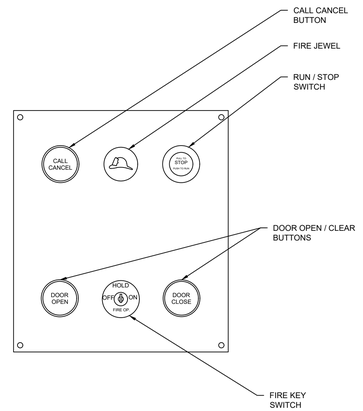
NOTES:
1. DIRECTIONAL IN CAR LANTERN LOCATED IN OR ON THE DOOR JAMB VISIBLE FROM HALL STATION W/ DOOR OPEN. 2 1/2" MIN IN THE SMALLEST DIRECTION W/ AUDIBLE SIGNAL PER CBC 11B-407.2.2.1-3.
2. EITHER HALL LANTERNS OR CAR LANTERN SHALL BE PROVIDED.

2 / VT4 LANTERNS
NTS

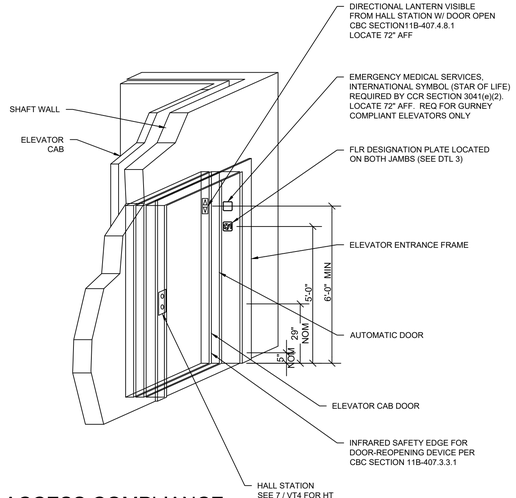


NOTES:
1. PANEL ARRANGEMENT MAY VARY.
2. ELEVATOR HALL CONTROL BUTTONS TO BE 3/4" MIN IN SMALLEST DIM, RAISED 1/8" ±1/32" ILLUMINATED WHITE LIGHT OVER ENTIRE SURFACE OF BUTTON & SQ SHOULDERED. (CBC SECTION 11B-407.4.6.2 & 11B-407.4.6.2.1-4, 11B-407.2.1.5 & 11B-407.2.1.2).
3. 11B-407.0.1.4 Location. The call button he deignates the up direction shall be located above the call button that designates he down direction.

7 / VT4 HALL STATION
NTS



4 / VT4 FIRE PANEL
NTS



1 / VT4 ACCESS COMPLIANCE
NTS

PASSENGER ELEVATOR REQUIREMENTS
Chapter 11B, 2019 California Building Code

VT3 — General - 11B-407.1
- Elevators shall be passenger elevator as classified as ASME A17.1. and shall comply with 11B-407 and with ASME A17.1.
- Elevator operation shall be automatic.
- When the only elevators provided for use by public and employess are combinations passenger and freight elevators, they shall comply with 11B-407 and ASME A17.1.

VT4 — Elevator landing requirements - 11b-407.2 and 1009
- Call controls - Where elevator call buttons or keypads are provided, they shall comply with 11C.407.2.1 and 11B-309.4..
- Height - Call buttons or keypads shall be located within one of the reach ranges specified in 11B-308, measured to the centerline of the highest operable part.
- Size and shape - call buttons shall have square shoulders, be 3/4 inch minimum in the smallest dimension and shall be raised 1/8 inch plus or minus 1/32 inch above surrounding surface. The buttons shall be activated by a mechanical motion that is detectable.
- Clear floor or ground space - A clear floor or ground space complying with 11B-305 shall be provided at call controls.
- Location - The call button that designates the up direction shall be located above the call button that designates the down direction.
- Signals - Call buttons shall have visible signals that will activate when each call is registered and will extinguish when each call is answered. Call buttons shall be internally illuminated with a white light over the entire surface of the button.
- Keypads - Per 11B-407.2.1.6, keypads, where provided, shall be in a standard telephone keypad arrangement and shall comply with 11B-407.4.7.2.

VT4 — Hall signals - Hall signals, including in-car signals, shall comply with 11B-407.4.2.2.
- Visible and audible signals - A visible and audible signal shall be provided at each hoistway entrance to indicate which car is answering a call and the car's directions of travel. Where in-car signals are provided, they shall be visible from the floor area adjacent to the hall call buttons.
- Visible signals - Visible signal fixtures shall be centered at 72 inches minimum above the finish floor or ground. The visible signal elements shall be a minimum 2½ inches wide. Signals shall be visible from the floor area adjacent to the hall call button.
- Audible signals - Audible signals shall sound once for the up direction and twice for the down direction or shall have verbal annunciations that indicate the direction of elevator car travel. Audible signals shall have a frequency of 1500 Hz maximum. Verbal annunciations shall have a frequency of 300 Hz minimum and 3000 Hz maximum. The audible signal and verbal annunciator shall be 10dB minimum above ambient, but shall not exceed 80 dB, measured at the hall call buttons.

3/VT4 — Hoistway Signs - Signs at elevator hoistway shall comply with 11B-407.2.3.
- Floor designation - Floor designations complying with 11B-407.2 and designations shall be provided in both raised characters and Braille. Raised characters shall be 2 inches high. A raised star, placed to the left of the floor designation, shall be provided on both jambs at the main entry level. The outside diamter of the star shall be 2 inches and all points shall be equal length. Raised characters, including the star, shall be white on a black background. Braille complying with 11B-703.3 shall be placed below the corresponding raised characters and he star. The Braille translation for the star shall be "MAIN". Applied plates are acceptable if they are permanently fixed to the jamb.
- Car designation - Destination-Oriented elevators shall provide tactile car identification complying with 11B-703.2 and 11B-703.4.1 on both jambs of the hoistway immediately below the floor designation. Car designations shall be provided in both raised characters and Braille.Raised characters shall be 2 inches high. Raised characters shall be white on a black background. Braille complying with 11B-703.3 shall be placed below the corresponding raised characters. Applied plates are acceptable if they are permanently fixed to the jamb. If applicable.

3/VT3 1 / VT4 — Elevator door requirements - 11B-407.3
- Type - Elevator doors shall be the horizontal sliding type. Car gates shall be prohibited.
- Operation - elevator hoistway and car doors shall open and close automatically.
- Reopening device - Elevator doors shall be provided with reopening device complying with 11B-407.3.3 that shall stop and reopen a car door and hoistway door automatically if the door becomes obstructed by an object or person.
- Height - The device shall not be activated by sensing an obstruction passing through the opening at 5 inches nominal and 29 inches nominal above the finish floor.
- Contact - The device shall not require physical contact to be activated, although contact is permitted to occur before the door reverses.
- Duration - Door reopening devices shall remain effective for 20 seconds minimum.
- Door and signal timing - the minimum acceptable time from notification that a car is answering a call or notification of the car assigned at the means for the entry of destination information until the doors of that car start to close shall be calculated from the following equation:
  T= D/(1.5 ft/s) or T= D/(455mm/s) = 5 seconds minimum where T equals the total time in seconds and D equals the distance (in feet or millimeters) from the point in the lobby or corridor 60 inches directly in front of the farthest call button controlling that car to the centerline of the hoistway door.
- Door delay - Elevator doors shall remain fully open in response to a car call for 5s minimum.
- Width - The width of elevator doors shall comply with Table 11B-407.4.1

VT3 — Elevator car requirements - 11B-407.4
- Car dimension - Inside dimensions of elevator cars and clear width of elevator doors shall comply with Table 407.4.1. CBC 3002.4.3A where required.
- Floor surfaces - Floor surfaces in elevator cars shall comply with 11B-302 and 11B-303.
- Platform to hoistway clearances - The clearance between the car platform sill and the edge of any hoistway landing shall be 11/4 inches minimum.
- Leveling - Each car shall be equipped with a self-teving feature that will automatically bring and maintain the car at floor landings within a tolerance of 1/2 inch under rated loading to zero loading condition.
- Illumination - the level of illumination at the car controls, platform, car threshold and car landing sill shall be 5 floor candles minimum.
- Elevator car controls - Where provided, they shall comply with 11B-407.4.6 and 11B-309.4.
- Location - Controls shall be located within reach ranges specified in 11B-308.
- Buttons - Car control buttons with floor designations shall comply with the following:
- Size and Shape - Buttons shall have square shoulders, be 3/4 inch minimum in the smallest dimension and shall be raised 1/8 inch plus or minus 1/32 inch above surrounding surface.
- Arrangement - Buttons shall be arranged with numbers in ascending order. When two or more columns of buttons are provided, they shall read from left to right.
- Illumination - Car control buttons shall be illuminated.
- Operation - Car control buttons shall be activated by a mechanical motion that is detectable.
- Keypads - Car control keypads shall be in a standard telephone keypad arrangement and shall comply with 11B-407.4.7.2.
- Emergency controls - Emergency controls shall comply with 11V-407.4.6.4.
- Height - Emergency controls shall have their centerlines 35 inches minimum to 48 inches maximum, 11B-308., above the finish floor.
- Location - emergency controls, including the emergency alarm, shall be grouped at the bottom of the panel.

8/VT4 — Designations and indicators of car controls - shall comply with 11B-407.4.7.
- Buttons - Car control buttons shall comply with 11B-407.4.7.1.
- Type - Control buttons shall be identified by raised characters or symbols,white on a black background, complying with 11B-703.2 and Braille complying with 11B-703.3.
- Location - Raised characters or symbols and Braille designations shall be placed immediately to the left of the control button to which the designations apply.
- Symbols - the control button for the emergency stop, alarm, door open, door close, main entry floor, and phone, shall be identified with raised symbols and Braille as shown in Table 11B-407.4.7.1.3.
- Visible indicators - buttons with floor designations shall be provided with visible indicators to show that a call has been registered. The visible indication shall extinguish when the car arrives at the designated floor.
- Button Spacing - a minimum clear space of 3/8 inch or other suitable means of separation shall be provided between rows of control buttons.
- Keypads - Keypads shall be identified by characters complying with 11B-703.5 and shall be centered on the corresponding keypad button. The num,ber five key shall have a single raised dot. The dot shall be 0.118 inch to 0.120 inch base diameter and in other aspects comply with Table 11B-703.3.1.

1/VT4 — Car position indicators - Audible and visible car position indicators shall be provided in elevator cars.
- Visible indicators shall comply with 11B-407.4.8.1.
- Size - Characters shall be 1/2 inch high minimum.
- Location - Indicators shall be located above the car control panel or above the car.
- Floor arrival - As the car passes a floor when a car stops at at floor served by the elevator, the corresponding character shall illuminate.
- Destination indicators - In destination-oriented elevators, a display shall be provided in the car with visible indicators to show car destinations.
- Audible indicators shall comply with 11B-407.4.8.2.
- Signal type - The signal shall be an automatic verbal annunciator which announces the floor at which the car is about to stop.
- Signal level - the verbal annunciator shall be 10dB minimum above ambien, but shall not exceed 80 dB, measured at the annunciator.
- Frequency - The verbal annunciator shall have a frequency of 300 Hz minimum to 3000 Hz maximum.
- Emergency communication - Emergency two-way communication systems shall comply with 11B-308. Raised symbols or characters, white in a black background, and Braille shall be provided adjacent to the device and shall comply with 11B-703.2 and 11B-703.3. Emergency two-way communciation systems between the elevator and a point outside the hoistway shall comply with ASME A17.1.

1A/VT3 1B/VT3 — Support Rail - Support rails shall be provided on at least one wall of the car.
- Location - Clearance between support rails and adjacent surfaces shall be 1 1/2 inches minimum. Top of support rails shall be 31 inches minimum to 33 inches maximum above the floor of the car. The ends of the support rail shall be 6 inches maximum from adjacent walls.
- Surfaces - Support rails shall be smooth and any surface adjacent to them shall be free of sharp or abrasive elements.
- Structural strength - Allowable stresses shall not be exceeded for materials used when vertical or horizontal forces of 250 pounds is applied at any point on the support rail, fastener, mounting device or supporting structure.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119989 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/11/2022

PRE-CHECK (PC) DOCUMENTS
2019 CBC CODE
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

S.E. PC APPROVAL

REGISTERED PROFESSIONAL ENGINEER Maurice D. Kinsman No. S3380 STRUCTURAL STATE OF CALIFORNIA
10/28/2021

MODULAR ELEVATOR MANUFACTURING, INC.
P.O. BOX 3998
CHATSWORTH, CA. 91313
800-755-9359

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-119748 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/28/2021

MEM INC
MODULAR ELEVATOR MANUFACTURING

THIS INFORMATION IS CONFIDENTIAL AND REMAINS THE PROPERTY OF MODULAR ELEVATOR MANUFACTURING, INC. ITS USE, REPRODUCTION OF, OR DESSEMINATION WITHOUT THE EXPRESS PERMISSION OF MODULAR ELEVATOR MANUFACTURING, INC. IS STRICTLY PROHIBITED.

PROJECT NO: 19835
DATE: 09/15/2021
ENGINEERED BY: KAL
DRAWN BY: MTC

NO.	DATE	REVISION

LICENSED ARCHITECT MARK RICHARD SACHSE C-29138 31-3-22 STATE OF CALIFORNIA

ACCESS COMPLIANCE

SHEET NO:
VT4

O:\Users\Ken\Applications\Revit\Temp\Archive\ltb_10180VT4_2019 CBC_R2.dwg Time:Sep/15/2021 -05:06pm Login:Ken Dimension:96 1TScale:0.5