GENERAL INFORMATION

G000	COVER SHEET
G101	REGULATORY SITE PLAN
G102	REGULATORY FLOOR PLAN

CIVIL

SITE DEVELOPMENT

SD/C101	TOPOGRAPHICAL SURVEY
SD/C201	DEMOLITION PLAN
SD/C301	SITE PLAN
SD/C401	HORIZONTAL CONTROL PLAN
SD/C402	HORIZONTAL CONTROL TABLE
SD/C501	GRADING AND DRAINAGE PLAN
SD/X101	DETAILS
SD/X102	DETAILS
SD/X103	DETAILS
SD/X104	DETAILS

LANDSCAPE

SITE DEVELOPMENT

SD/L101	IRRIGATION PLAN
SD/L102	IRRIGATION DETAILS
SD/L103	IRRIGATION DETAILS
SD/L201	PLANTING PLAN
SD/L202	PLANTING DETAILS

ARCHITECTURAL

SITE DEVELOPMENT

SD/A100	OVERALL SITE DEMOLITION PLAN
SD/A101	OVERALL SITE PLAN
SD/A102	ENLARGED SITE PLANS AND ELEVATIONS
SD/A103	PARTIAL SITE PLANS
SD/A201	SITE DEVELOPMENT DETAILS
SD/A202	SITE DETAILS - SHADE STRUCTURE

TYPICAL INFORMATION

X/A101	WALL ASSEMBLIES
X/A201	INTERIOR AND EXTERIOR FINISH SCHEDULE
X/A301	MODULAR CASEWORK SCHEDULE AND DETAILS
X/A310	CUSTOM CASEWORK DETAILS
X/A401	OPENING SCHEDULES AND ELEVATIONS
X/A402	OPENING DETAILS - HM FRAMES & EXTERIOR
X/A403	OPENING DETAILS - HM FRAMES & INTERIOR
X/A501	EXTERIOR DETAILS - CONCRETE CURBS
X/A502	EXTERIOR DETAILS - WALL DETAILS
X/A601	INTERIOR DETAILS
X/A602	INTERIOR DETAILS - ACOUSTICAL CEILINGS

BUILDING A

A/A100	DEMOLITION FLOOR PLAN
A/A101	FLOOR PLAN
A/A102	ENLARGED FLOOR PLANS
A/A103	CURB PLAN
A/A200	DEMOLITION REFLECTED CEILING PLAN
A/A201	REFLECTED CEILING PLAN
A/A300	DEMOLITION ROOF PLAN
A/A301	ROOF PLAN
A/A401	EXTERIOR ELEVATIONS
A/A501	BUILDING SECTIONS
A/A502	WALL SECTIONS
A/A601	INTERIOR ELEVATIONS- ROOMS 101 - 107
A/A602	INTERIOR ELEVATIONS- ROOMS 108 - 113
A/A603	INTERIOR ELEVATIONS- ROOMS 114 - 115
A/A701	SIGNAGE PLAN AND SCHEDULE
A/A801	INTERIOR DESIGN PLAN

STRUCTURAL

TYPICAL INFORMATION

X/S101	TYPICAL PROJECT NOTES AND DETAILS
X/S102	TYPICAL PROJECT NOTES AND DETAILS

BUILDING A

A/S201	FOUNDATION PLAN
A/S301	ROOF FRAMING PLAN
A/S401	ELEVATIONS AND DETAILS

MECHANICAL

TYPICAL INFORMATION

X/M101	MECHANICAL NOTES & SCHEDULES
X/M201	MECHANICAL DETAILS
X/M301	MECHANICAL TITLE 24 DOCUMENTS
X/M302	MECHANICAL TITLE 24 DOCUMENTS
X/M303	MECHANICAL TITLE 24 DOCUMENTS

BUILDING A

A/M101	MECHANICAL DEMOLITION PLAN
A/M102	MECHANICAL PLAN
A/M201	MECHANICAL DEMOLITION ROOF PLAN
A/M202	MECHANICAL ROOF PLAN

PLUMBING

TYPICAL INFORMATION

X/P001	PLUMBING LEGENDS, NOTES AND CALCULATIONS
X/P101	PLUMBING DETAILS
X/P102	PLUMBING DETAILS
X/P201	PLUMBING SCHEDULES

BUILDING A

A/P101	PLUMBING DEMOLITION PLAN
A/P201	PLUMBING PLAN
A/P301	PLUMBING DEMO ROOF PLAN
A/P302	PLUMBING ROOF PLAN

ELECTRICAL

SITE DEVELOPMENT

SD/E100	OVERALL DEMOLITION SITE ELECTRICAL PLAN
SD/E101	OVERALL SITE ELECTRICAL PLAN

TYPICAL INFORMATION

X/E101	ELECTRICAL SYSTEMS - SYMBOLS, NOTES, & DETAILS
X/E201	LIGHTING SYSTEMS - FIXTURE SCHEDULE & DETAILS
X/E202	LIGHTING SYSTEMS - FIXTURE DETAILS
X/E301	POWER - SINGLE LINE DIAGRAM & VOLTAGE DROP CALCULATION
X/E302	POWER - EV CHARGING DETAILS
X/E303	POWER - DETAILS
X/E401	DATA - DETAILS
X/E402	AV - DETAILS
X/E601	FIRE ALARM - RISER DIAGRAM, NOTES, & SYMBOLS
X/E602	FIRE ALARM - CALCULATIONS & DETAILS
X/E901	TITLE 24 COMPLIANCE FORMS - BUILDING A
X/E902	TITLE 24 COMPLIANCE FORMS - BUILDING A
X/E903	TITLE 24 COMPLIANCE FORMS - BUILDING A

BUILDING A

A/E100	DEMOLITION LIGHTING PLAN
A/E101	LIGHTING PLAN
A/E200	DEMOLITION POWER PLAN
A/E201	POWER PLAN
A/E210	ROOF DEMOLITION POWER PLAN
A/E211	ROOF POWER PLAN
A/E300	DEMOLITION LOW VOLTAGE PLAN
A/E301	LOW VOLTAGE PLAN
A/E400	DEMOLITION FIRE ALARM PLAN
A/E401	FIRE ALARM PLAN

BUILDING B

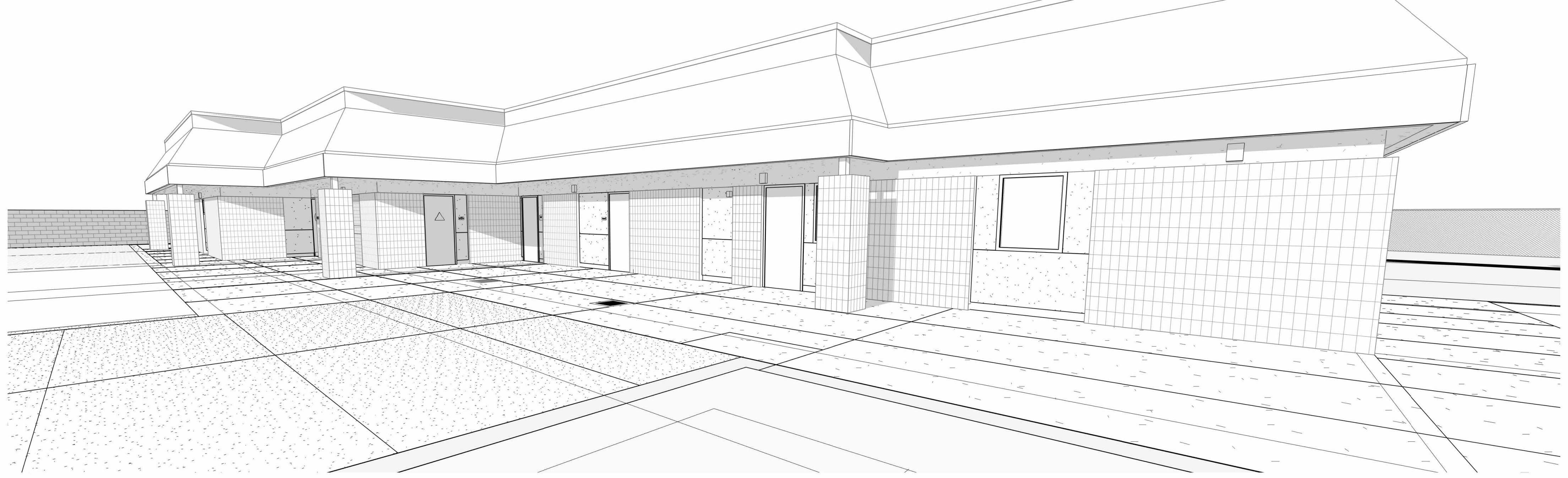
B/E400	FIRE ALARM PLANS

SHADE STRUCTURE MANUFACTURERS DRAWINGS

(1) 24'-0" x 30'-0" ICON Shelter Systems Shade Structure

DSA No. 04-122188 PC

LS1.0 - GENERAL INFO
LS1.1 - GENERAL INFO
LS1.2 - DSA 103
LS1.3 - DSA 103
LS3.0 - FOUNDATION PLAN
LS3.1 - FRAMING & CONNECTION DETAILS
LS3.2 - MULTI RIB ROOFING PLAN
LS3.3 - MEGA RIB ROOFING PLAN
LS3.4 - STANDING SEAM ROOFING PLAN
LS5.0 - OPTIONAL ELECTRICAL ACCESS



Page Count:

Example of Statement of General Conformance and Signature Block per IR A-18

Statement of General Conformance

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS,
INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

(Application No. 02-123716 **File No.** 24-35 **)**

☒ The drawings or sheets listed on the cover or index sheet
☐ This drawing, page of specifications/calculations

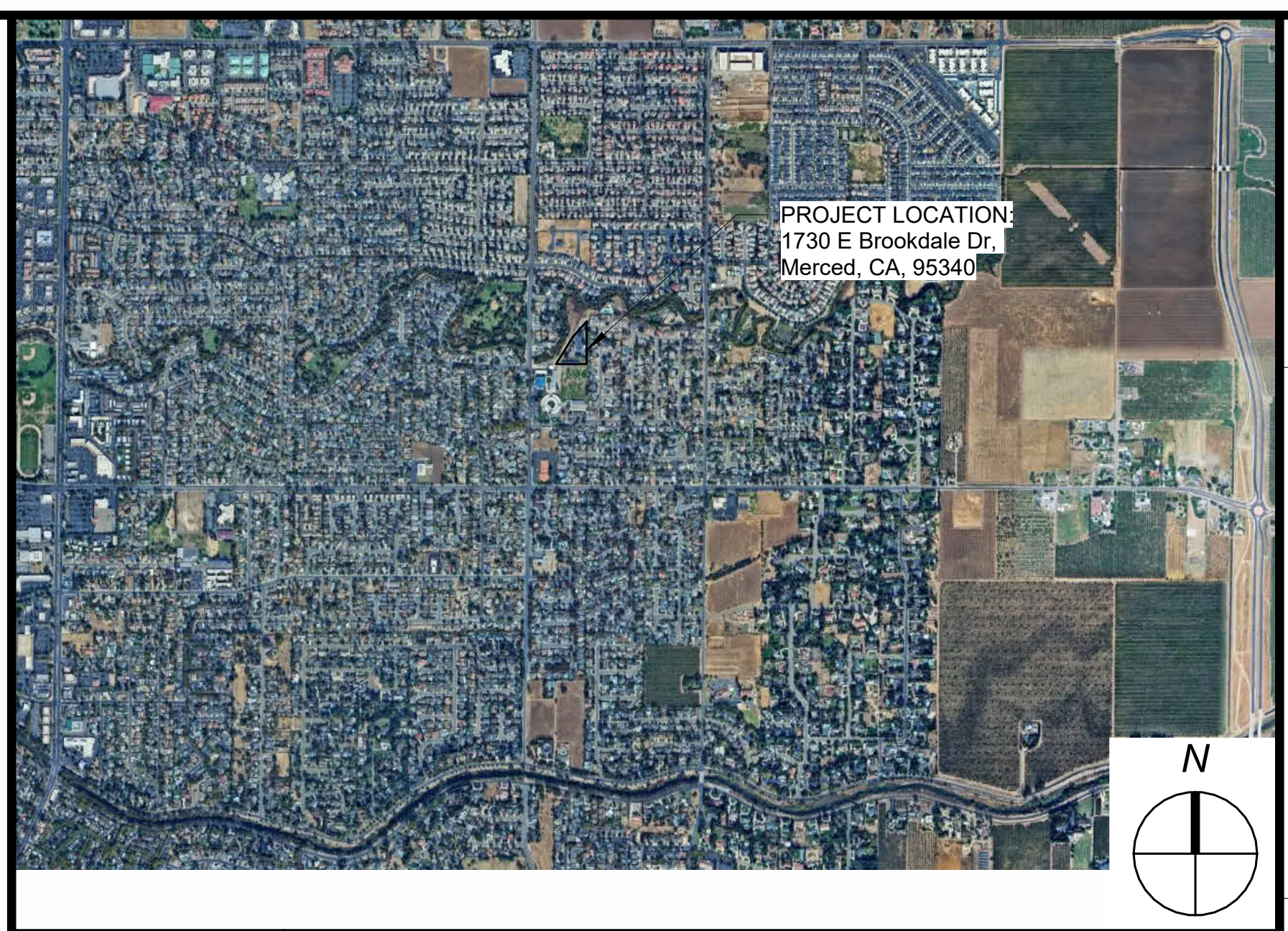
have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

1) design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and
2) coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

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 1. *(Title 24, Part 1, Section 4-316 (b))*

I certify that: ☒ All drawings or sheets listed on the cover or index sheet
☐ This drawing or page

☒ is/are in general conformance and ☐ have been coordinated	☐ is/are in general conformance and ☐ have been coordinated
Grant E Dodson 2/6/2026 **Signature** **Date**	**Signature** **Date**
Architect or Engineer designated to be in general responsible charge Grant E. Dodson **Print Name**	**Architect or Engineer delegated responsibility for this portion of the work.** **Print Name**
C20307 6/30/2027 **License Number** **Expiration Date**	**License Number** **Expiration Date**



N14 Vicinity Map

All work shall be performed in accordance with current applicable codes and standards including, but not limited to, the following:

California Code of Regulations (CCR)
CCR-T5: Title 5-Education
CCR-T8: Title 8-Industrial Safety
CCR-T19: Title 19-Public Safety
CCR-Title 24:

Building Codes and Standards:
2025 California Building Standards Administrative Code (Part 1, Title 24, CCR)

2022 California Building Code, Volumes 1 and 2 (Part 2, Title 24, CCR)

2022 California Electrical Code (Part 3, Title 24, CCR)

2022 California Mechanical Code (Part 4, Title 24, CCR)

2022 California Plumbing Code (Part 5, Title 24, CCR)

2022 California Energy Code (Part 6, Title 24, CCR)

2022 California Elevator Safety Construction Code (Part 7, Title 24, CCR)

2022 California Fire Code, Part 9, Title 24, CCR)

2022 California Referenced Standards Code (Part 12, Title 24, CCR)

2022 California Green Building Standards Code

NFPA 13, 2022 Edition, The Installation of Automatic Sprinkler Systems

NFPA 14, 2019 Edition, Installation of Standpipe

NFPA 24, 2022 Edition, Installation of Private Fire Service Mains and their Appurtenances

NFPA 72, 2022 Edition, National Fire Alarm Code

Division of the State Architect (DSA):
SSS: Structural Safety Section
ACS: Access Compliance Section
FLS: Fire Life Safety
Interpretation of Regulation Manual

A "DSA Certified" Class 1 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.

All construction and demolition shall be in accordance with Chapter 33 of the CBC and CFC, and the written site fire safety plan, Refer to Specification Section 01 50 00 - TEMPORARY FACILITIES AND CONTROLS for requirements.

J14 Applicable Codes

Notes:

1. The Contractor Shall Be Responsible For The Preparation and Submittal Of The Deferred Approval Items To The Division Of The State Architect (DSA) For Review and Approval Prior To The Installation. The Submittal Shall Comply With The Requirements Of Specification Section 013300: Submittals.

2. Installation of Deferred Approval items shall not be started until Contractor's drawing, specifications, and engineering calculations for the actual system(s) to be installed have been reviewed by the Architect and/or the Structural Engineer, and approved by the DSA.

Description of Deferred Item
None
.
.

G14 Deferred Approval

1. This project is located in California Climate Zone 12.

2. The intent of these drawings and specifications is that the work of the alteration, rehabilitation or reconstruction 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 contrcat documents wherein the finished work will not comply with Title 24, CCR, a construction change document (CCD), 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).

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

4. A DSA accepted testing laboratory directly employed by the district (Owner) shall conduct all the required tests and inspections for the project.

5. 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.

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

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

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

9. 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.

10. 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.

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

D14 General Notes

SCOPE OF WORK:

This facility is an Existing campus that is made up of a Single-Story classroom building A and Portable classroom building B.

Scope of work includes the Modernization of the Existing single-story classroom building A, replacement of Fire Alarm Devices in the Portable classroom building B and related Site Improvements.

The single-story classroom building A is to receive minor Interior and Exterior finish upgrades and replaces existing restrooms.

Site improvements consist of Parking Lot upgrades, the addition of a new Basketball Court, PC Shade Structure, and Play Areas.

Deductive Alternate No. 1 deletes a portion of new Concrete Masonry wall along the southern perimeter and replaces it with Chainlink fencing.

B14 Project Description

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

ELECTRICAL
Hardin-Davidson Engineering
356 Pollasky Ave. Suite 200
Clovis, CA 93612
T (559) 323-4995
F (559) 323-4928

MECHANICAL
Lawrence Engineering Group
7084 N Maple Ave Ste 101
Fresno, CA 93720
(559) 431-0101

STRUCTURAL
Brooks Ransom Associates
7415 N Palm Ave Ste 100
Fresno CA 93711
T (559) 449-8444
F (559) 449-8404

CIVIL
Blair, Church & Flynn
451 Clovis Ave, Ste 200
Clovis, CA 93612
T (559) 326-1400
F (559) 326-1500

ARCHITECTURAL
Darden Architects, Inc.
6790 N. West Avenue
Fresno, CA 93711
T (559) 448-8051
F (559) 446-1765

Community Day School Modernization

Merced City School District

Merced, CA, 95340

Darden Project Number: 2533

Date: 2/9/2026

Project Information

darden architects
ARCHITECTURE
PLANNING
INTERIORS
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

G000

darden architects, inc.
ARCHITECTURE ▪ PLANNING ▪ INTERIORS

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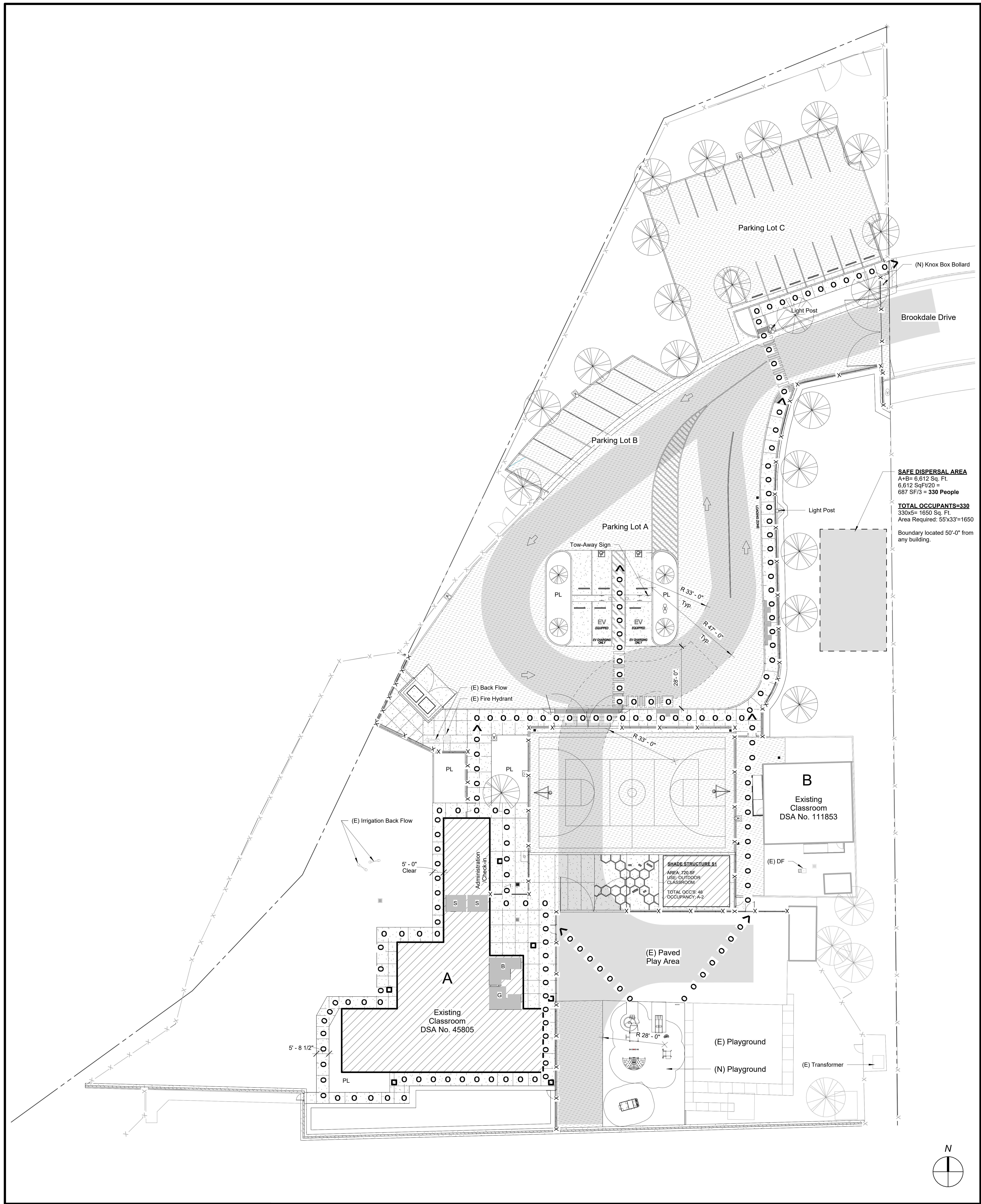


SAFE DISPERSAL AREA
A+B= 6,612 Sq. Ft.
6,612 SqFt/20 =
687 SF/3 = **330 People**

TOTAL OCCUPANTS=330
330x5= 1650 Sq. Ft.
Area Required: 55'x33'=1650

Boundary located 50'-0" from any building.

A1

Regulatory Compliance Site Plan

1" = 20'-0"

Refer to G18 for Symbols, Abbreviations and Notes.

BLDG #	OCCUPANCY CLASSIFICATION	DSA APP NUMBERS	OCCUPANCY GROUP	CONSTRUCTION TYPE	TABULAR ALLOWABLE AREA FACTOR CBC TABLE 506.2	FRONTAGE AREA INCREASE FACTOR I_f =(F/P - 0.25) x W/30 CBC 506.3	TOTAL ALLOWABLE BUILDING AREA A_a=(A_t+(NS x I_f)) CBC 506.2	ACTUAL BUILDING AREA (FLOOR AREA + COVERED AREA)	APPLICABLE BUILDING CODE	REMARKS
A	Classroom Total: 5,172 SF	02-45805	E	V-N	18,500 SF	--	--	6,648 SF	--	Existing
B	PK Classroom Total: 1,440 SF	02-111853	E	V-B	9,500 SF	--	--	1,830 SF	--	Existing
	Building Total:							**8,478 SF**		

OCCUPANCY CLASSIFICATIONS

This BUILDING DATA table applies the 2022 California Building Code "Occupancy Classifications", "Construction Types", and "Allowable Areas", to existing buildings approved by the Division of the State Architect under previous editions of the California Building Code. "Occupancy Classifications" and the "Construction Types" are applied to existing buildings that most closely resemble the intent of the building program and construction systems. Some existing buildings may not meet the current California Building Code standard when "Occupancy Classification" and "Construction Type" are applied.

BUILDING AREA MODIFICATIONS

ALLOWABLE AREA FACTOR:
CBC TABLE 506.2

A_t = Tabular building area per story in accordance with CBC Table 506.2

FRONTAGE AREA INCREASE FACTOR:
CBC TABLE 506.3

I_f = Area increase factor due to frontage

F = Building perimeter that fronts on a public way or open space having a width of 20 feet or more

P = Perimeter of entire building

W = Width of public way or open space in accordance with Section 506.3.2

TOTAL ALLOWABLE BUILDING AREA:
CBC TABLE 506.2

A_a = Allowable area

A_t = Tabular building area per story in accordance with CBC Table 506.2

NS = Tabular allowable area factor in accordance with Table 506.2 for a nonsprinklered building (regardless of whether the building is sprinklered)

I_f = Area increase factor due to frontage

S_a *= Actual number of building stories above grade plane, not to exceed 2 for Group A, E, H, I, L, and R Occupancies and not to exceed 3 for other Group Occupancies

*Note: No invidual story shall exceed the allowable area (A_a) as determined using the value of S_a = 1.

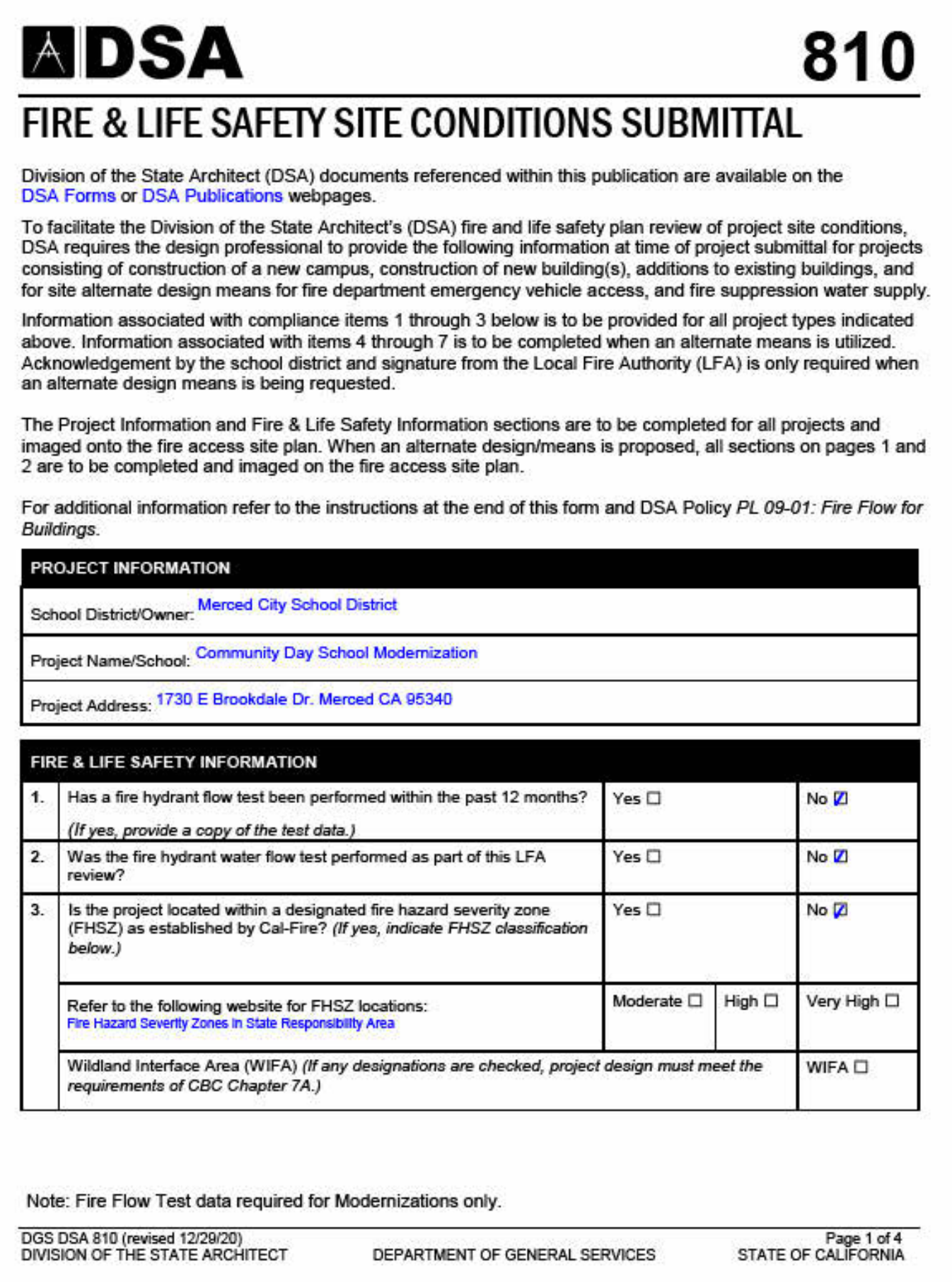
SEPARATED OCCUPANCIES:
CBC 508.4.2

In each story, the building area shall be such that the sum of the ratios of the actual building area of each separated occupancy divided by the allowable building area of each separated occupancy shall not exceed 1.

$$\frac{\text{Actual Building Area per story}}{\text{Allowable Building Area per story}} + \frac{\text{Actual Building Area per story}}{\text{Allowable Building Area per story}} \leq 1.0$$

Parking Schedule		
STALL TYPE	LOT	QUANTITY
Standard Stall	A	2
Standard Stall	B	8
Standard Stall	C	17
Standard Accessible Stall	A	1
Standard Van Accessible Stall	A	1
EV Capable Spaces	-	-
EV Capable Spaces with EVSE	A	2
TOTAL PARKING STALLS NO	A+B+C	31

Merced CSD EV Parking Calculation	
Parking Data w/ CGBC	
Parking Stalls, Total	31
EVCS Power Allocation Method Calculation per 2022 CBBC 5.106.5.3.6	
Required kVA for 31 Stalls	14
Chargepoint kVA @ 40 A/port	16.6
Total Required	2
Total Provided	2



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

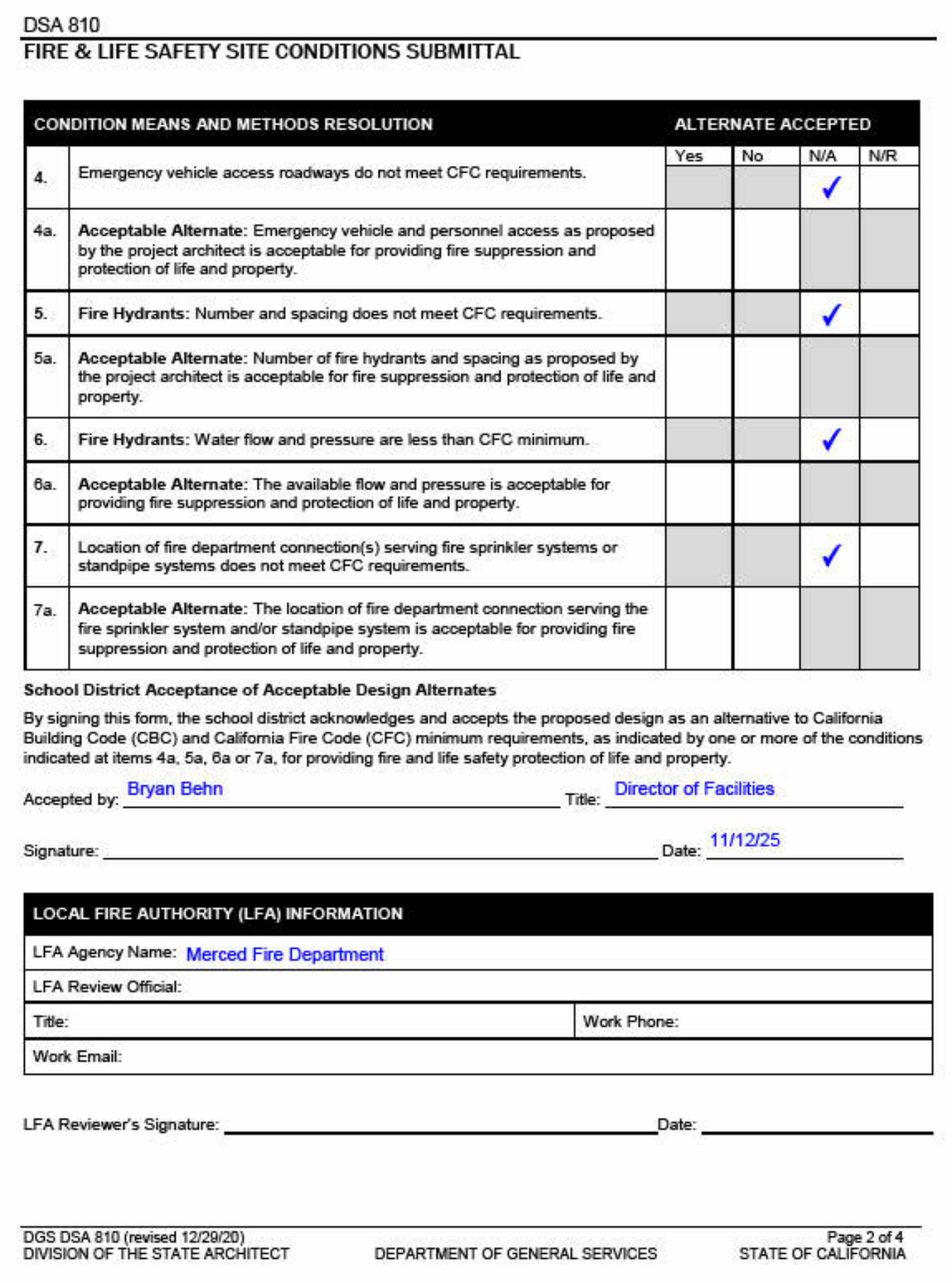
School District/Owner: Merced City School District
Project Name/School: Community Day School Modernization
Project Address: 1730 E Brookdale Dr. Merced CA 95340

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: Fire Hazard Severity Zones in State Responsibility Area	Moderate ☐	High ☐	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*			WIFA ☐

Note: Fire Flow Test data required for Modernizations only.

DGS DSA 810 (revised 12/29/20)
DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES Page 1 of 4
STATE OF CALIFORNIA



DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

	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: Bryan Behn Title: Director of Facilities

Signature: Date: 11/12/25

LOCAL FIRE AUTHORITY (LFA) INFORMATION

LFA Agency Name: Merced Fire Department
LFA Review Official:
Title: Work Phone:
Work Email:

LFA Reviewer's Signature: Date:

DGS DSA 810 (revised 12/29/20)
DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES Page 2 of 4
STATE OF CALIFORNIA

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

SYMBOLS

───	Assumed Property Line
X──X──X	(E) Fence
X──X──X	(N) Fence
< o o	Accessible Path of Travel
▩	Fire Truck Access Lane
░	Safe Dispersal Area
FH	PLUMBING, Fire Hydrant (FH)
FDC	PLUMBING, Fire Department Connection (FDC) (Siamese)
PIV	PLUMBING, Post Indicator Valve (PIV),
B G	Accessible Restroom Location: B = Boys G = Girls M = Men W = Women A = All Gender S = Staff
☐	Existing Building not included in this project
▨	New Addition and Existing Building included in this project

ABBREVIATIONS

DF	ACCESSABLE DRINKING FOUNTAIN LOCATION (-HA = High Adult) (-LA = Low Adult)

NOTES

1. Site Gates, Site Ramps, and Site Stair locations in the "Path of Travel" are indicated on Drawing REGULATORY COMPLIANCE SITE PLAN.
2. The Path of Travel slopes shall not exceed a running slope of 1:20 (5%) The Path of Travel slopes shall not exceed a Cross Slope of 1:50 (2%). The Path of Travel shall not have overhead obstructions within 80" above the walking surface or obstructions protruding more than 4" between 27" and 80" above the walking surface.
3. The "Path of Travel" as shown on Drawing REGULATORY COMPLIANCE SITE PLAN, shall not have any unprotected vertical drop exceeding 4 inches at the time of the preparation of the contract documents and DSA approval. Contractor shall verify and bring any non-complying items to the attendtion of the Architect.
4. All new concrete surface within the "Path of Travel" shall have a non-slip medium broom finish. A heavy broom finish shall be used on all slopes greater than 6%.

G18

Regulatory Compliance Site Plan Legend

No Scale

Community Day School Modernization
Merced City School District
Merced, CA, 95340

Project

GENERAL INFORMATION
REGULATORY SITE PLAN

Drawing

darden architects
ARCHITECTURE
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www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

	Designed By: -	Copyright 2026 Darden Architects
Scale: As indicated	Drawn By: -	G101
Project Number: 2533	Checked By: -	
Date: 2/9/2026	Reviewed By: -	

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DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

DOORWAYS

SINGLE 3'-0" DOORWAY = 32.75" / 0.2 = 163 OCCUPANTS
SINGLE 4'-0" DOORWAY = 46.75" / 0.2 = 233 OCCUPANTS
1 PAIR 3'-0" DOORWAY = 68.75" / 0.2 = 343 OCCUPANTS
1 PAIR 4'-0" DOORWAY = 92.75" / 0.2 = 463 OCCUPANTS
1-1/2 PAIR 3'-0" DOORWAY = 104.25" / 0.2 = 521 OCCUPANTS
1-1/2 PAIR 4'-0" DOORWAY = 136.50" / 0.2 = 682 OCCUPANTS
2 PAIR 3'-0" DOORWAY = 137.50" / 0.2 = 687 OCCUPANTS
2 PAIR 4'-0" DOORWAY = 185.50" / 0.2 = 927 OCCUPANTS

M18 — Exit Width Schedule
No Scale

SYMBOLS

—··—··—	2 Hr. Fire Barrier - (2 Hr. Fire Resistive Construction)
# →	Indicates Exit Occupant Loading
A or A	Indicates Required Accessible Clearance Space
B G	Accessible Restroom Location: B = Boys G = Girls M = Men W = Women U = Unisex

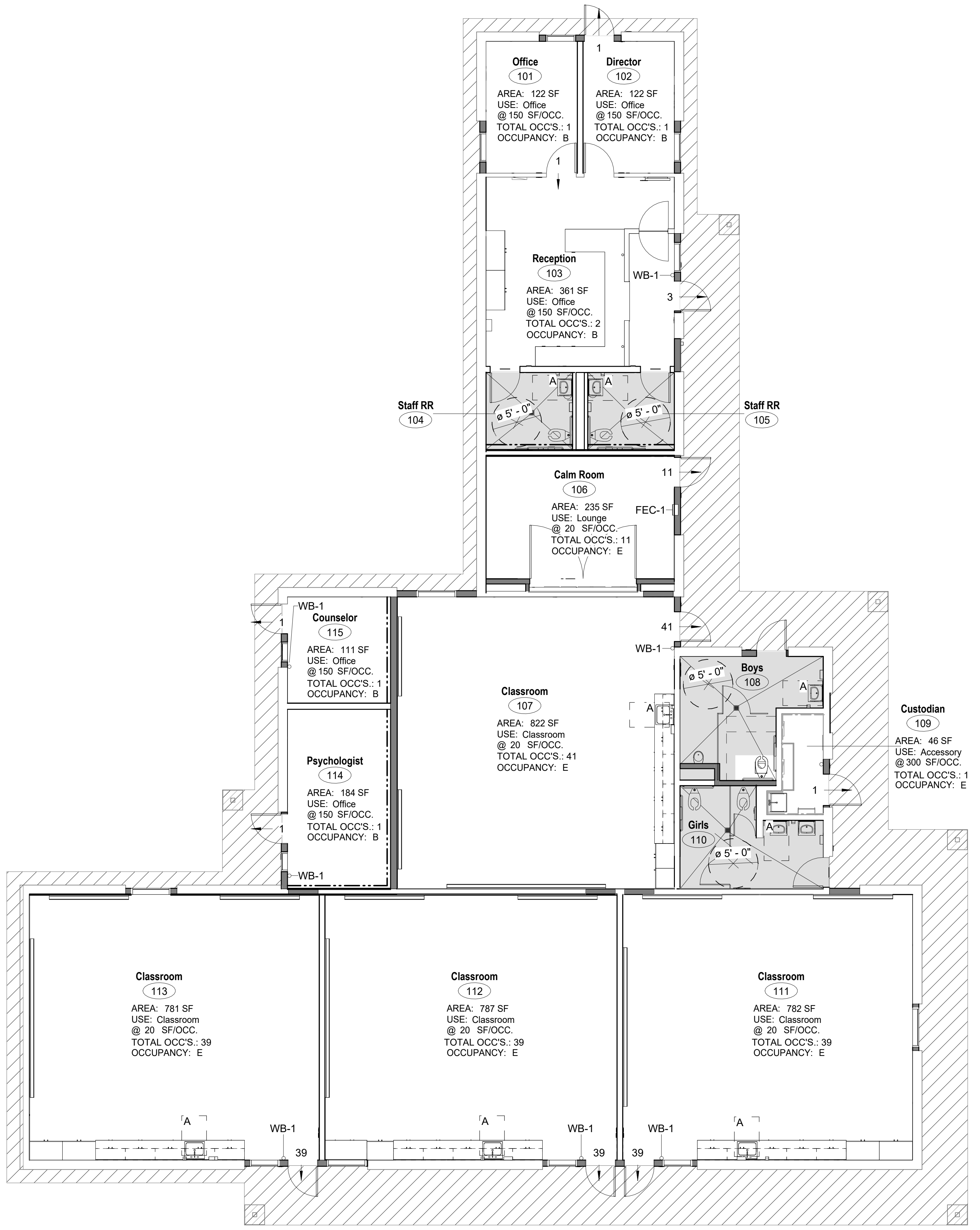
ABBREVIATIONS

DF	ACCESSIBLE DRINKING FOUNTAIN LOCATION (-HA = High Adult) (-LA = Low Adult)
FEC	FIRE PROTECTION SPECIALTIES, Fire Extinguisher and Cabinet. Provide Fire Rated Cabinet at Rated Walls.
WB-1	FIRE PROTECTION SPECIALTIES, 3A:40B:C Fire Extinguisher and Bracket.

BUILDING INFORMATION

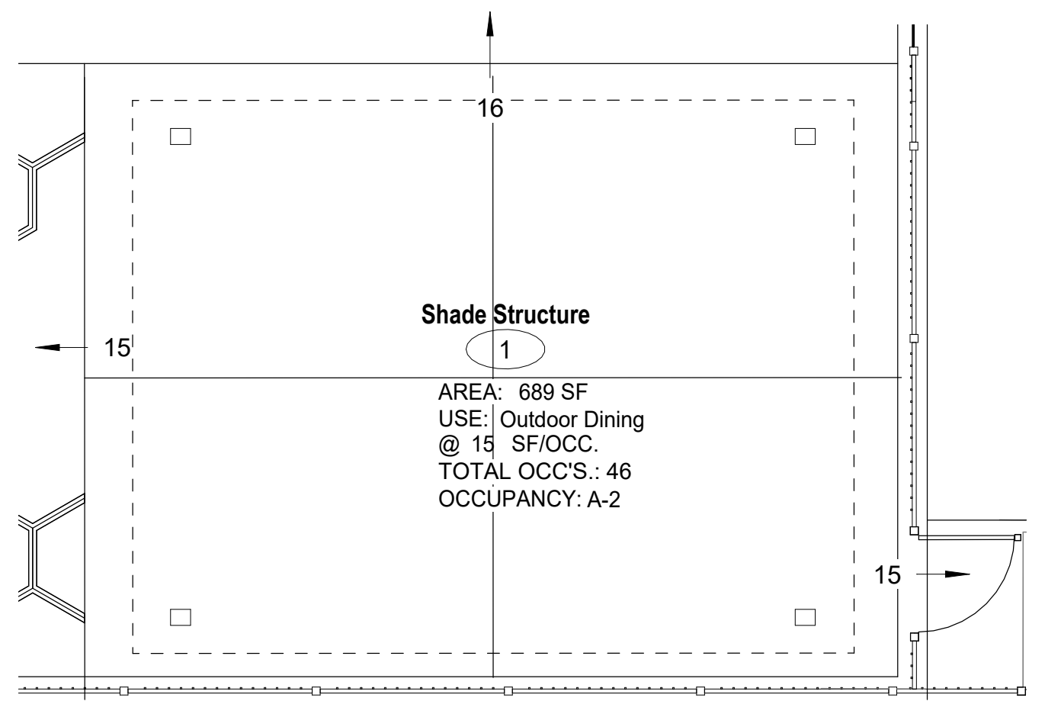
Building Id. & Use:	Building CDS - Educational
Occupancy Classification:	Group E
Construction Type:	Type VN, No Fire Sprinklers
Actual Building Area:	1st Floor = 5196 SF Total = 5196 SF

H18 — Regulatory Compliance Floor Plan Legend
No Scale



N

A7 — Regulatory Compliance Floor Plan A
1/8" = 1'-0"
Refer to H18 for Symbols, Abbreviations and Notes.



A1 — Regulatory Compliance Floor Plan, Shade Structure
1/8" = 1'-0"

Community Day School Modernization
Merced City School District
Merced, CA, 95340
Project

GENERAL INFORMATION
REGULATORY FLOOR PLAN
Drawing

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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27
Grant E. Dodson
Architect

No.	Revision/Submission	Date

Revision

	Designed By: -	Copyright 2026 Darden Architects
Scale: 1/8" = 1'-0"	Drawn By: -	G102
Project Number: 2533	Checked By: -	
Date: 2/9/2026	Reviewed By: -	

2/6/2026 11:15:07 AM
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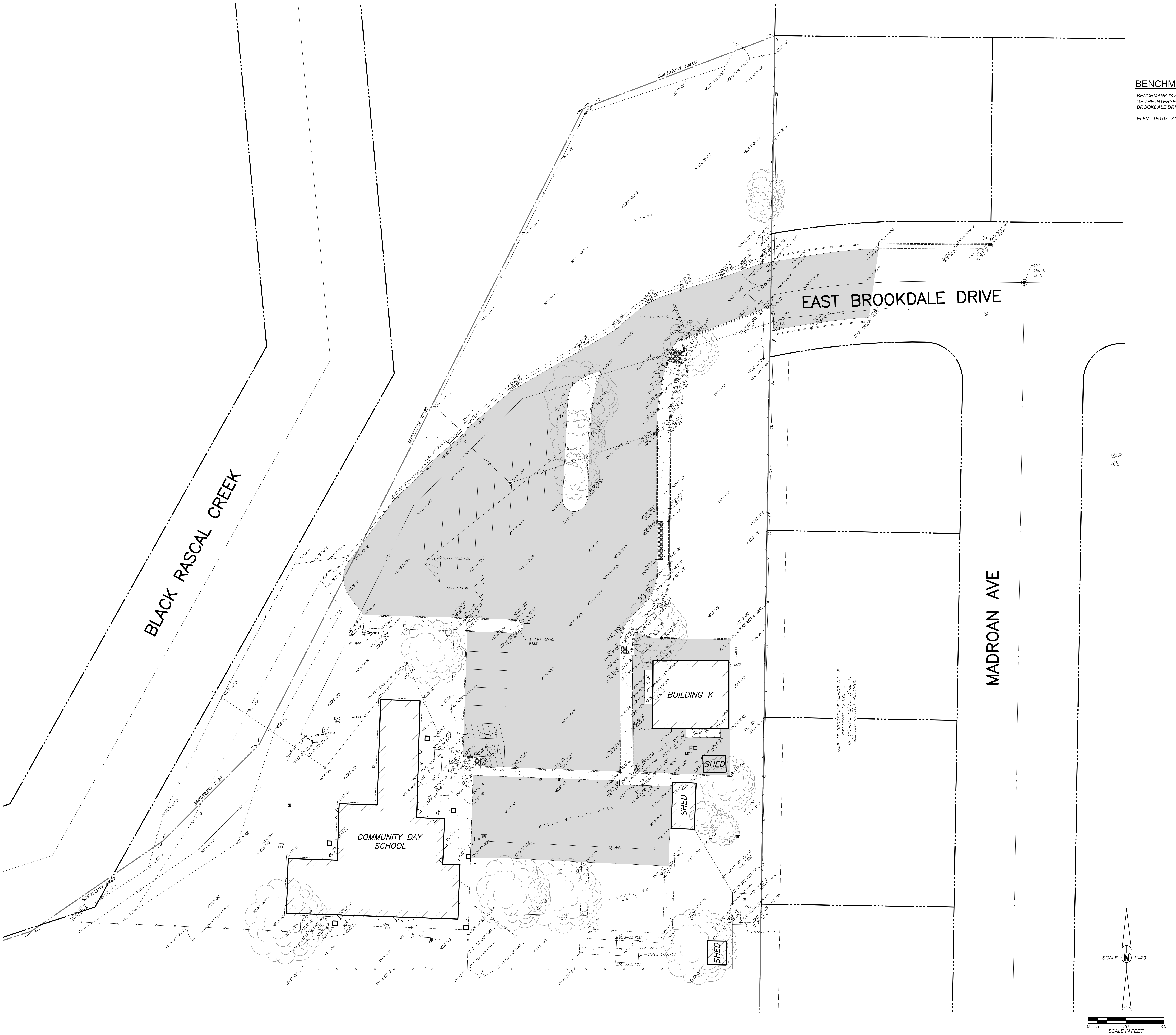
DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval



BENCHMARK:

BENCHMARK IS A MONUMENT LOCATED AT THE CENTER OF THE INTERSECTION OF MADROAN AVENUE AND EAST BROOKDALE DRIVE

ELEV.=180.07 ASSUMED DATUM

SURVEY NOTES:

1. *THIS SURVEY WAS CONDUCTED BY PRECISION ENGINEERING AND SUPPLIED TO BLAIR, CHURCH & FLYNN BY MERCED CITY SCHOOL DISTRICT. BLAIR, CHURCH & FLYNN IS NOT RESPONSIBLE FOR ANY INCORRECT OR MISSING INFORMATION.*
2. *CONTRACTOR RESPONSIBLE TO VISIT SITE TO CONFIRM EXISTING CONDITIONS PRIOR TO BID AND INCORPORATE ANY CHANGES INTO THEIR BID.*

ABBREVIATIONS

AC	ASPHALT CONCRETE
BFP	BACKFLOW PREVENTOR
CLF	CHAINLINK FENCE
D	DIRT
EG	EDGE OF GUTTER
EP	EDGE OF PAVEMENT
FCTC	TOP OF FOOTING
FL	FLOWLINE
GRD	GROUND
RDCR	ROAD CROWN
RDSB	SPEED BUMP
RDTBC	TOP OF BACK OF CURB
RDTBD	TOP BACK OF ASPHALT DIKE
SCO	SEWER CLEAN OUT
TD	TRUNCATED DOMES
TOE	TOE OF SLOPE
TOGR	GRAVEL
TOP	TOP OF SLOPE
WF	WOOD FENCE

LEGEND

— —	RIGHT–OF–WAY
— – – —	PROPERTY LINE
—○—	CHAINLINK FENCE
—□—	WOOD FENCE
	SIGN
○–□	AREA LIGHT
P	POWER POLE
— OE —	OVERHEAD ELECTRICAL LINE
EPB	ELECTRICAL PULL BOX
CPB	CABLE PULL BOX
GV	GAS VALVE
	BACKFLOW PREVENTOR
	FIRE HYDRANT
⊗	WATER VALVE
WM	WATER METER
— 6"WM —	WATER MAIN; SIZE AS NOTED
IPB	IRRIGATION PULL BOX
— IRR —	IRRIGATION PIPE; SIZE AS NOTED
SCO	SANITARY SEWER CLEAN OUT
— SS —	SANITARY SEWER PIPE; SIZE AS NOTED
▤	STORM DRAIN GRATE INLET
— 18"SD —	STORM DRAIN PIPE; SIZE AS NOTED
	CURB AND GUTTER
	EXISTING TREE
▨	EXISTING BUILDING
	EXISTING CONCRETE
	EXISTING PAVEMENT

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Merced City School District
Merced, CA

Project

SITE DEVELOPMENT
TOPOGRAPHICAL SURVEY

Drawing

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Architect

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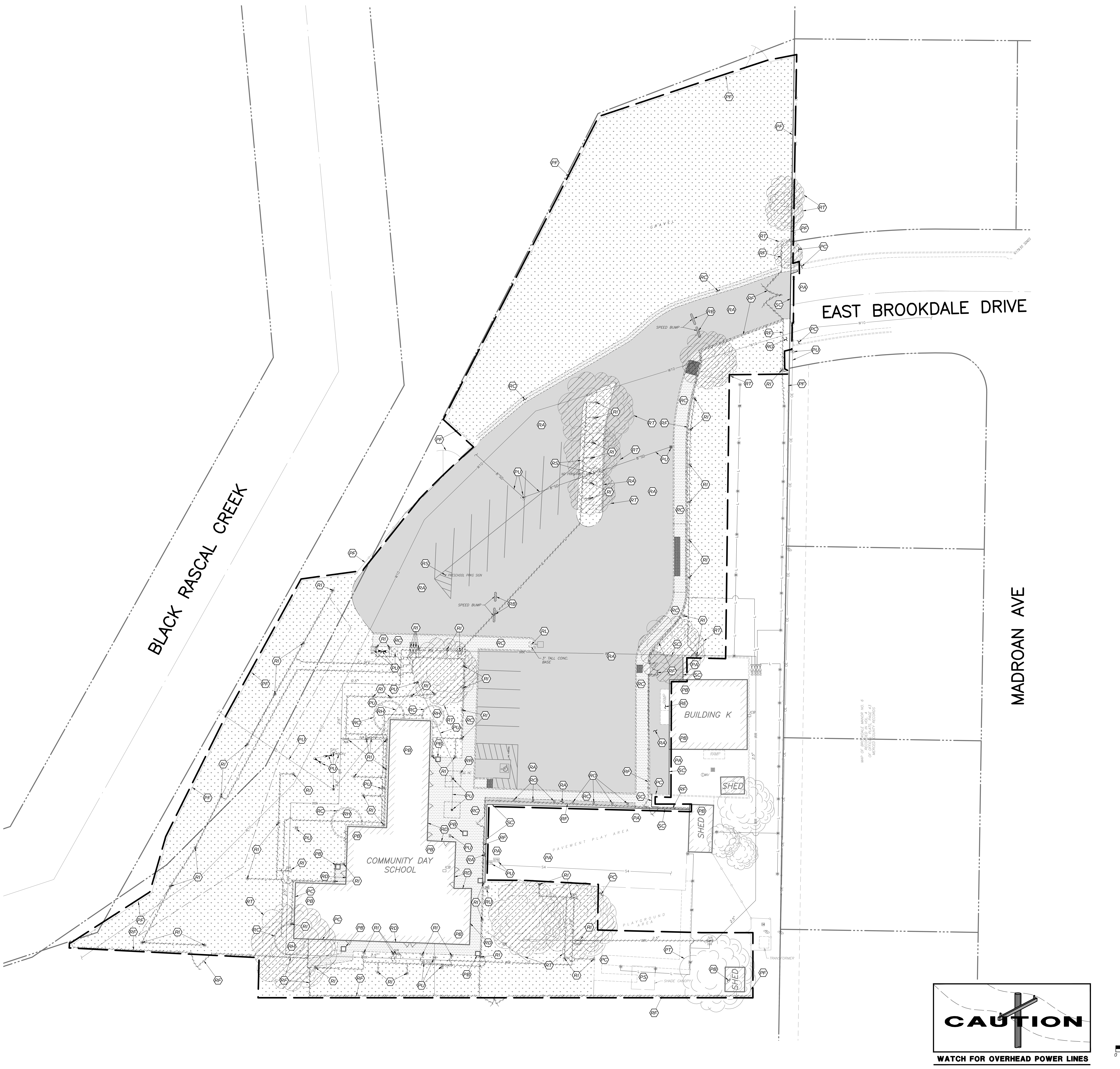
	Designed By: DG	
Scale: As Indicated	Drawn By: SD	SD/C101
Project Number: 2533	Checked By: LRB	
Date: 2/9/2026	Reviewed By: JDB	Sheet: ________ of: ________



SCALE: 1"=20'

0 5 20 40
SCALE IN FEET

Know what's below. Call before you dig.

DEMOLITION LEGEND:

— —	APPROXIMATE LIMITS OF DEMOLITION. REMOVE EXISTING IMPROVEMENTS AS NECESSARY TO CONSTRUCT NEW IMPROVEMENTS SHOWN ON THESE PLANS UNLESS OTHERWISE NOTED ON THE PLAN. THE REMOVAL OF IMPROVEMENTS MUST BE COORDINATED WITH ALL PLAN SHEETS. CONTRACTOR MUST ALSO COORDINATE REMOVAL OF IMPROVEMENTS WITH UTILITY AGENCIES. PROTECT ALL IMPROVEMENTS NOT DESIGNATED FOR REMOVAL. SEE NOTE 1
▨	LIMITS OF VEGETATION REMOVAL. 4" MINIMUM DEPTH
▨	LIMITS OF CONCRETE IMPROVEMENT REMOVAL
▨	LIMITS OF ASPHALTIC CONCRETE IMPROVEMENT REMOVAL
PA	PROTECT ASPHALT CONCRETE PAVEMENT TO REMAIN
PB	PROTECT BUILDING TO REMAIN
PC	PROTECT CONCRETE IMPROVEMENTS TO REMAIN
PF	PROTECT FENCE TO REMAIN
PS	PROTECT SHADE CANOPY TO REMAIN
PT	PROTECT TREE AND ROOTS TO REMAIN
PU	PROTECT UTILITY TO REMAIN
RA	REMOVE AND LAWFULLY DISPOSE OF ASPHALT CONCRETE PAVEMENT STRUCTURAL SECTION
RB	REMOVE AND LAWFULLY DISPOSE OF SPEED BUMP
RC	REMOVE AND LAWFULLY DISPOSE OF CONCRETE IMPROVEMENTS
RD	REMOVE AND LAWFULLY DISPOSE OF CONCRETE SLAB. REINFORCED STEEL REMOVAL ANTICIPATED PER DETAIL [J/SD/X102]
RE	REMOVE AND SALVAGE RAMP FOR REINSTALLATION
RF	REMOVE AND LAWFULLY DISPOSE OF CHAIN LINK FENCE FABRIC, POSTS AND FOOTINGS
RG	COORDINATE DEMOLITION WITH AND SALVAGE MATERIALS TO RESIDENT, AS REQUESTED
RH	REMOVE AND LAWFULLY DISPOSE OF BUSH
RI	REMOVE AND SALVAGE IRRIGATION UTILITY, RETURN TO DISTRICT
RL	REMOVE LIGHT POLE AND RETURN TO OWNER
RO	REMOVE AND RETURN BOLLARD TO OWNER
RR	REMOVE AND SALVAGE SIGN FOR REINSTALLATION. SEE SITE PLAN FOR LOCATION
RS	REMOVE AND LAWFULLY DISPOSE OF SIGN AND FOOTING
RT	REMOVE AND LAWFULLY DISPOSE OF TREE AND ROOTS
RU	REMOVE AND LAWFULLY DISPOSE OF UTILITY
SC	SAWCUT
●	REMOVE TREE
⁄⁄⁄⁄	LIMIT OF CHAIN LINK FENCE REMOVAL
⁄⁄⁄ IRR ⁄⁄⁄	LIMIT OF IRRIGATION MAIN LINE REMOVAL/ABANDONMENT
⁄⁄⁄ L ⁄⁄⁄	LIMIT OF IRRIGATION LATERAL LINE REMOVAL//ABANDONMENT

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

GENERAL DEMOLITION NOTES:

1. THE "LIMIT OF DEMOLITION" SHOWN IS APPROXIMATE AND IS GENERALLY CONSIDERED TO BE THE MINIMUM REMOVAL REQUIREMENTS. CONTRACTOR MUST COORDINATE AS NOTED IN THE LEGEND.
2. CONTRACTOR SHALL LEGALLY DISPOSE OF ALL DEMOLISHED MATERIALS OFF SITE.
3. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITY IMPROVEMENTS NOT SPECIFICALLY DESIGNATED FOR REMOVAL.
4. THE ON-SITE UNDERGROUND UTILITIES SHOWN ON THIS SHEET ARE AT APPROXIMATE LOCATIONS. THE EXTENT, LOCATIONS AND SIZES ARE UNKNOWN. THE CONTRACTOR SHALL POTHOLE TO LOCATE AND VERIFY THE UNDERGROUND UTILITY LINES PRIOR TO REMOVAL.
5. CONTRACTOR TO PROTECT AND PRESERVE IN PLACE ANY FOUND SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE RESET BY A CALIFORNIA LICENSED SURVEYOR AND THE APPROPRIATE PAPERWORK FILED WITH THE CITY OR COUNTY, AT CONTRACTOR'S EXPENSE.
6. ALL HAZARDOUS MATERIALS ENCOUNTERED DURING SITE DEMOLITION SHALL BE REMEDIATED AND DISPOSED OF PER STATE AND EPA REQUIREMENTS.
7. CONTRACTOR SHALL CONTACT AND COORDINATE WITH ALL UTILITY AGENCIES PRIOR TO THE START OF ANY DEMOLITION OR CONSTRUCTION.
8. ANY EXISTING UTILITIES AND/OR IMPROVEMENTS WHICH ARE TO REMAIN, THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE OWNER AND AGENCY HAVING AUTHORITY, AT THE CONTRACTOR'S SOLE EXPENSE.
9. REMOVE EXISTING IMPROVEMENTS AS NECESSARY TO CONSTRUCT NEW IMPROVEMENTS SHOWN ON THESE PLANS.
    - a) FOR CONCRETE REMOVAL, REMOVE TO THE NEXT NEAREST TOOLED JOINT OR EXPANSION JOINT OF IMPROVEMENTS DESIGNATED TO REMAIN.
    - b) FOR ASPHALTIC PAVEMENT REMOVAL. SAWCUT TO A STRAIGHT, CLEAN EDGE AT LOCATIONS INDICATED ON THE PLANS.
10. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, IRRIGATION, AND ARCHITECTURAL PLANS FOR ADDITIONAL DEMOLITION AND COORDINATION.
11. COMPLIANCE WITH FIRE SAFETY DURING CONSTRUCTION WILL BE ENFORCED.

General Notes

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Merced City School District
Merced, CA

Project

SITE DEVELOPMENT
DEMOLITION PLAN

Drawing

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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

	Designed By: DG	
Scale: As Indicated	Drawn By: SD	SD/C201
Project Number: 2533	Checked By: LRB	
Date: 2/9/2026	Reviewed By: JDB	Sheet: ________ of: ________

DSA File No.:
24-35

DSA Application No.:
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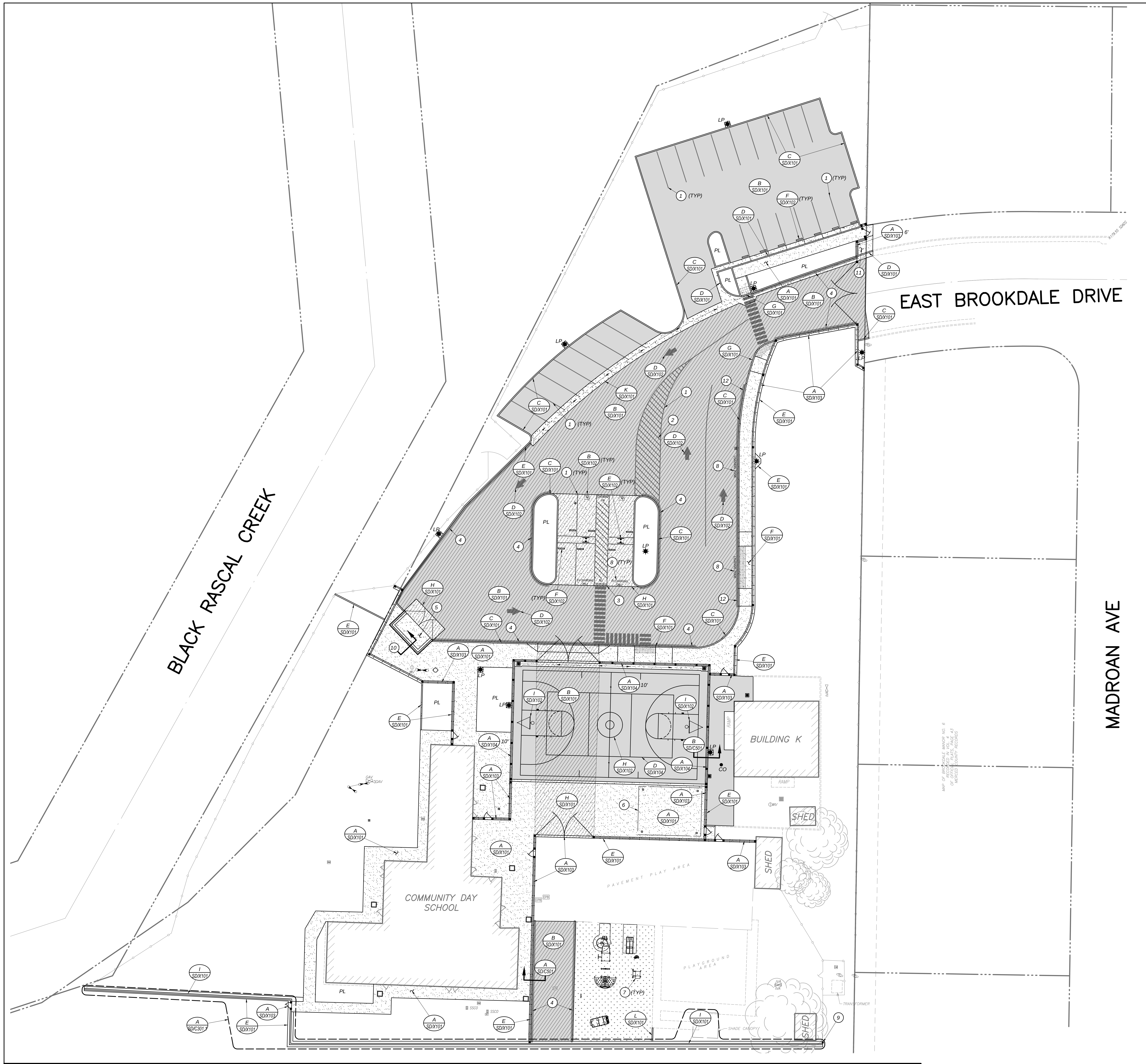
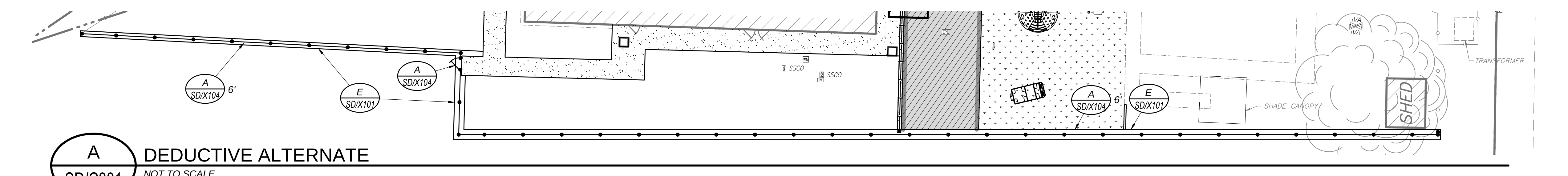
Agency Approval





A
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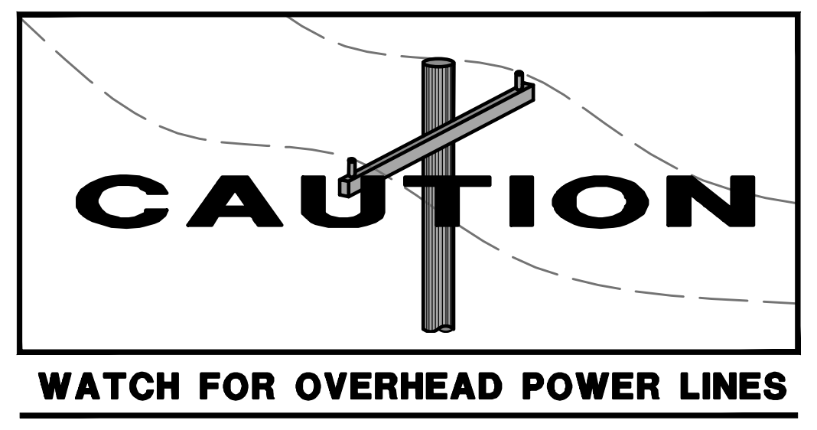
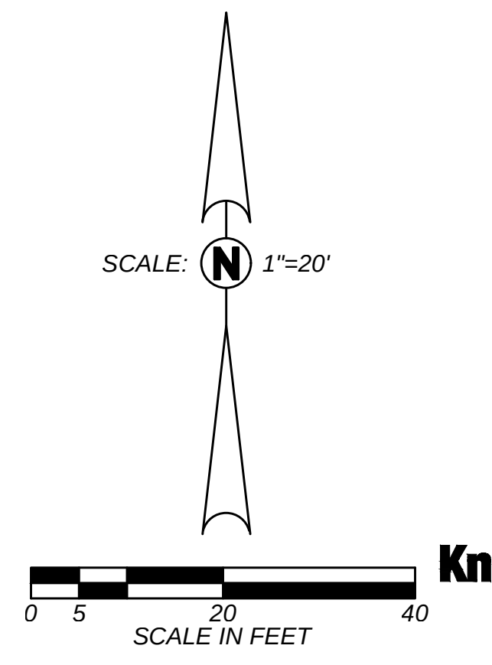

CAUTION
WATCH FOR OVERHEAD POWER LINES



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Know what's below.
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SITE LEGEND:

▨	LIMITS OF CONCRETE IMPROVEMENTS
▨	LIMITS OF HEAVY DUTY CONCRETE IMPROVEMENTS PER DETAIL [H/SD/X101]
▨	LIMITS OF REGULAR DUTY ASPHALTIC CONCRETE PAVEMENT STRUCTURAL SECTION PER DETAIL [B/SD/X101]
▨	LIMITS OF HEAVY DUTY ASPHALTIC CONCRETE PAVEMENT STRUCTURAL SECTION PER DETAIL [B/SD/X101]
▨	DETECTABLE WARNINGS PER DETAIL [C/SD/X102]
▨	LIMITS OF PLAYGROUND SYNTHETIC TURFGRASS PER DETAIL [L/SD/X101]
▬	LIMITS OF PAINTED CURB
PL	PLANTER
✷LP	LIGHT POLE, SEE ELECTRICAL PLAN
①	PAINT 4" WIDE WHITE LINE
②	PAINT 4" WIDE WHITE DIAGONAL LINES AT 3' ON-CENTER
③	PAINT ACCESS AREA WITH 4" WIDE BLUE BORDER, WITH 4" WIDE WHITE DIAGONAL LINES AT 36" O.C. INSIDE AND WITH 12" HIGH WHITE "NO PARKING" WORDING
④	PAINT TOP AND FACE OF CURB RED WITH 4" HIGH WHITE LETTERING, "NO PARKING - FIRE LANE", AT 30' ON CENTER. WHERE NO CURB EXISTS, PAINT ASPHALT
⑤	TRASH ENCLOSURE PER DETAIL [F/SD/X104]. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
⑥	SHADE STRUCTURE PER DETAIL [A11/SD/A202]
⑦	PLAY AREA AND EQUIPMENT BY OWNER
⑧	PAINT 12" HIGH WHITE LETTERS
⑨	INSTALL FENCE POST WITH MAXIMUM 4" SPACE TO CMU WALL. CONNECT EXISTING FENCE FABRIC TO NEW FENCE POST
⑩	REFER TO CITY OF MERCED STANDARD DRAWING R-4 SECTION A-A PER DETAIL [F/SD/X104]. CONCRETE SIDEWALK SHALL BE FLUSH WITH CONCRETE BLOCK WALL CURB.
⑪	REFER TO ARCHITECTURAL PLANS FOR BOLLARD WITH LOCK BOX
⑫	PAINT TOP AND FACE OF CURB GREEN

GENERAL SITE NOTES:

1. ALL CONCRETE MOWSTRIPS, RAMPS AND SIDEWALKS SHALL HAVE WEAKENED PLANE JOINTS AT 10 FEET MAXIMUM ON CENTER AND EXPANSION JOINTS AT 30 FEET MAXIMUM ON CENTER PER DETAIL [A/SD/X101]
2. INSTALL DOWELED CONNECTION AT JOINT OF NEW CONCRETE TO EXISTING CONCRETE PER DETAIL [J/SD/X101]
3. NO CONCRETE MAY BE POURED UNTIL THE FORMS HAVE BEEN REVIEWED AND APPROVED BY THE PROJECT INSPECTOR.
4. ALL BURIED METALLIC OBJECTS SHALL HAVE A PROTECTIVE COATING OR BE WRAPPED WITH APPROVED PROTECTIVE WRAP.
5. ADJUST EXISTING SPRINKLER HEADS AND LATERAL LINES AS REQUIRED BY NEW IMPROVEMENTS, OR AS SHOWN ON THE IRRIGATION PLANS.
6. 2 WORKING DAYS BEFORE COMMENCING EXCAVATION OPERATIONS WITHIN THE STREET RIGHT-OF-WAY AND/OR UTILITY EASEMENTS, ALL EXISTING UNDERGROUND FACILITIES SHALL HAVE BEEN LOCATED BY UNDERGROUND SERVICES ALERT (USA). CALL 1-800-642-2444
7. ANY SURVEY MONUMENTS WITHIN THE AREA OF CONSTRUCTION SHALL BE PRESERVED OR RESET BY A PERSON LICENSED TO PRACTICE LAND SURVEYING IN THE STATE OF CALIFORNIA. REPLACEMENT TO BE AT CONTRACTOR'S SOLE EXPENSE.
8. REPAIR ALL DAMAGED AND/OR OFF-GRADE CONCRETE STREET IMPROVEMENTS AS DETERMINED BY THE AGENCY HAVING JURISDICTION PRIOR TO OCCUPANCY
9. NO PAVEMENT STRIPING IS ALLOWED PRIOR TO SEAL COAT REVIEW BY ENGINEER, AND WRITTEN APPROVAL TO PROCEED BY ENGINEER.
10. OBTAIN ALL REQUIRED PERMITS AND APPROVALS FROM AGENCY HAVING JURISDICTION FOR WORK WITHIN THE PUBLIC RIGHT OF WAY

General Notes

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Merced City School District
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Project

SITE DEVELOPMENT
SITE PLAN

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Architect

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Revision

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Scale: As Indicated	Drawn By: SD	SD/C301
Project Number: 2533	Checked By: LRB	
Date: 2/9/2026	Reviewed By: JDB	Sheet: ________ of: ________

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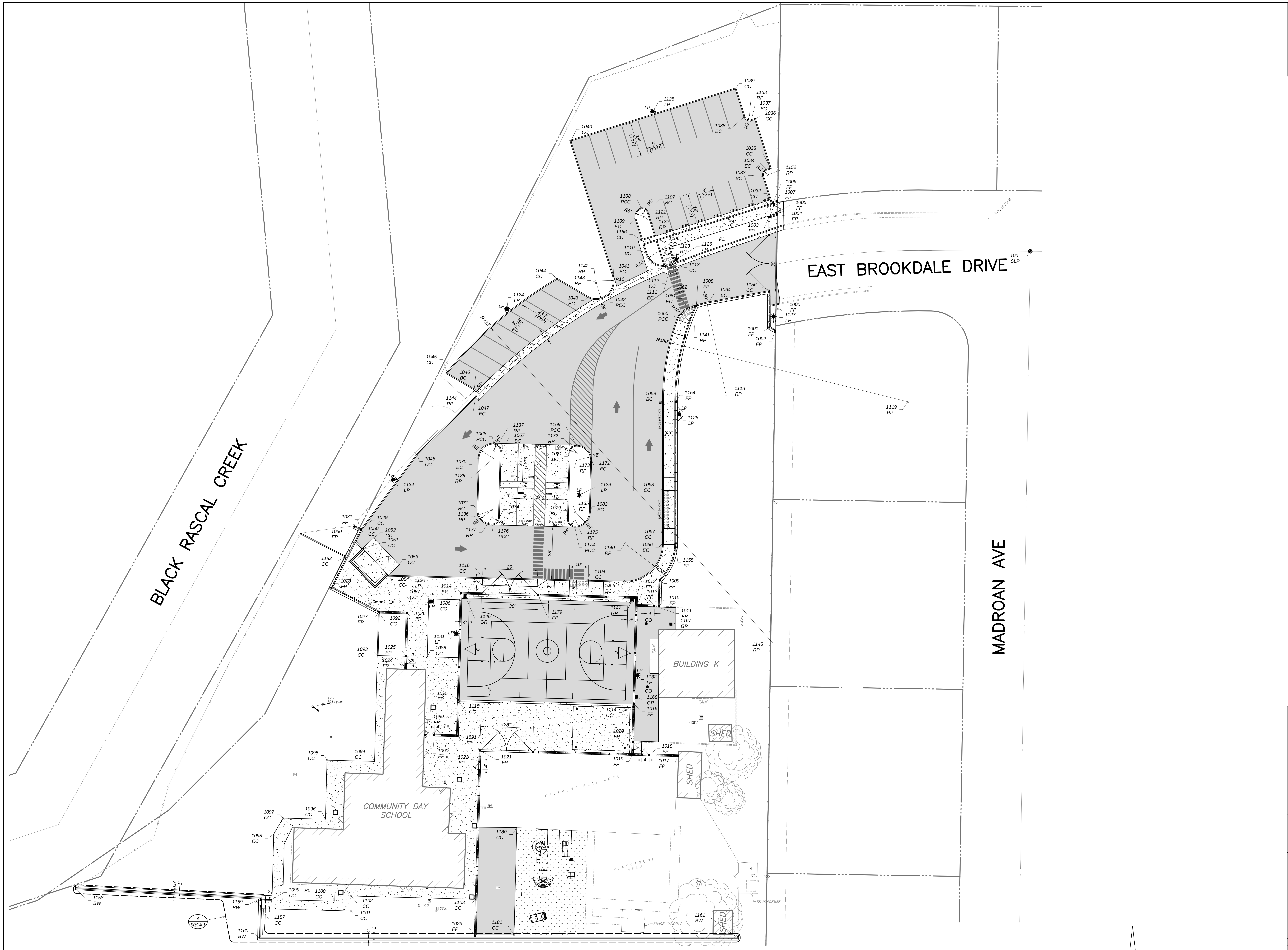
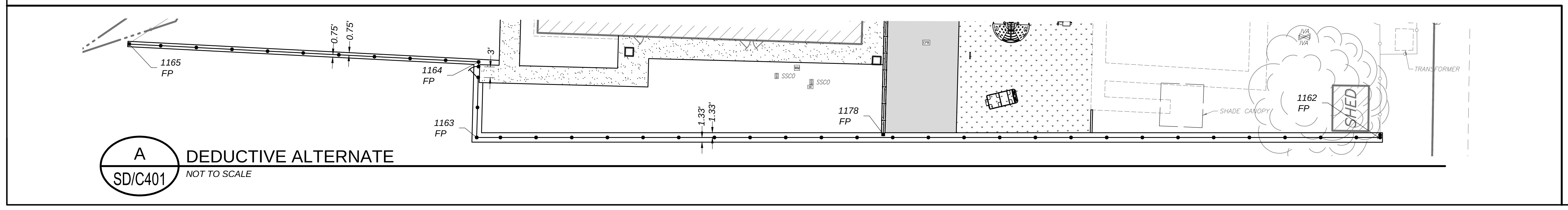
Plot by: dgaona Feb 05, 2026 - 4:02pm





A
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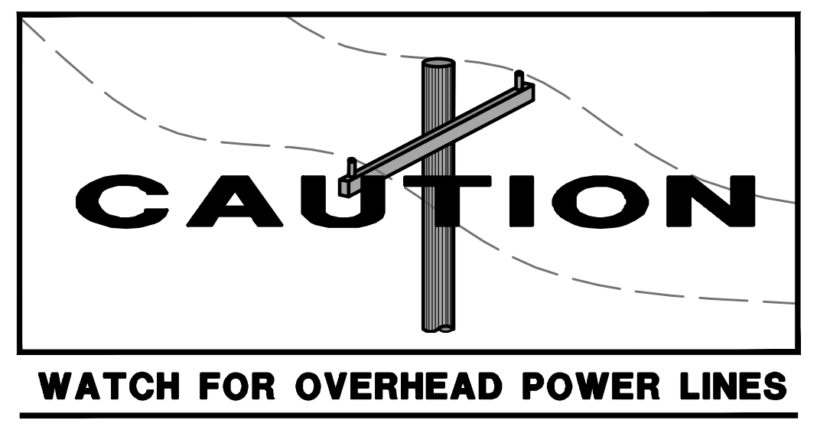
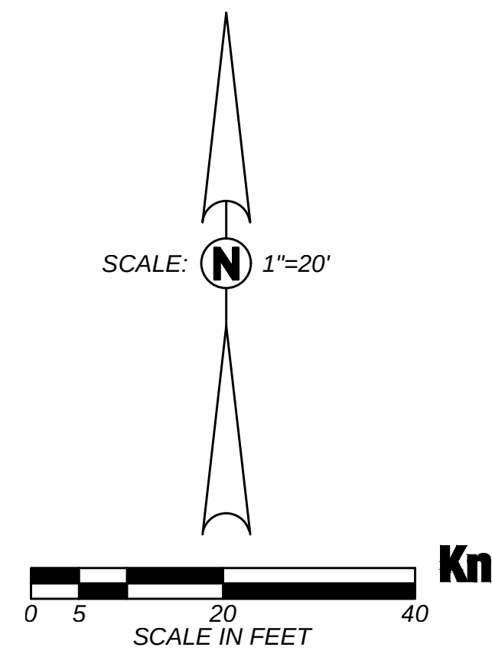


WATCH FOR OVERHEAD POWER LINES



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DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

GENERAL HORIZONTAL CONTROL NOTES:

1. ALIGNMENT OF THE SITE LAYOUT IS BASED ON AN ASSUMED COORDINATE SYSTEM. SITE LAYOUT POINT 100 IS LOCATED AT THE CENTER OF THE INTERSECTION OF MADROAN AVENUE AND EAST BROOKDALE DRIVE
2. DIMENSIONS AND POINTS ARE TO CENTER OF FENCE POSTS, FACE OF BUILDINGS, TOP FACE OF CURB, OR EDGE OF CONCRETE, UNLESS SHOWN OTHERWISE.

BENCHMARK:

BENCHMARK IS A MONUMENT LOCATED AT THE CENTER OF THE INTERSECTION OF MADROAN AVENUE AND EAST BROOKDALE DRIVE

ELEV.=180.07 ASSUMED DATUM

HORIZONTAL CONTROL LEGEND:

1000 LCP	LAYOUT COORDINATE POINT
100 SLP	SITE LAYOUT POINT
BC	BEGIN CURVE
BW	BLOCK WALL
CC	CORNER CONCRETE
EC	END CURVE
FP	FENCE POST
GR	GRATE
LP	LIGHT POLE
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
RP	RADIUS POINT

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Project

SITE DEVELOPMENT
HORIZONTAL CONTROL PLAN

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Drawing: P:\225\225-0385\Site\ProductionDrawings\225385_hc01.dwg; C401 - BCF.ctb
Plot by: dgaona Feb 05, 2026 - 4:02pm

NORTHING EASTING TABLE

POINT	NORTHING	EASTING	ABV	DESCRIPTION
100	1940233.04	6576676.24	SLP	SITE LAYOUT POINT
1000	1940211.62	6576537.99	FP	FENCE POST
1001	1940192.71	6576538.06	FP	FENCE POST
1002	1940191.07	6576540.96	FP	FENCE POST
1003	1940251.19	6576537.87	FP	FENCE POST
1004	1940252.51	6576542.05	FP	FENCE POST
1005	1940253.54	6576541.71	FP	FENCE POST
1006	1940258.85	6576539.99	FP	FENCE POST
1007	1940259.48	6576541.98	FP	FENCE POST
1008	1940204.10	6576499.37	FP	FENCE POST
1009	1940058.82	6576480.04	FP	FENCE POST
1010	1940045.26	6576479.71	FP	FENCE POST
1011	1940045.32	6576477.11	FP	FENCE POST
1012	1940045.55	6576467.97	FP	FENCE POST
1013	1940049.72	6576467.67	FP	FENCE POST
1014	1940052.06	6576374.70	FP	FENCE POST
1015	1939995.67	6576373.21	FP	FENCE POST
1016	1939993.34	6576466.26	FP	FENCE POST
1017	1939966.01	6576489.49	FP	FENCE POST
1018	1939966.39	6576474.42	FP	FENCE POST
1019	1939966.61	6576465.62	FP	FENCE POST
1020	1939973.12	6576465.77	FP	FENCE POST
1021	1939968.70	6576384.74	FP	FENCE POST
1022	1939962.59	6576384.59	FP	FENCE POST
1023	1939870.52	6576382.28	FP	FENCE POST
1024	1940012.21	6576345.32	FP	FENCE POST
1025	1940018.71	6576345.49	FP	FENCE POST
1026	1940041.59	6576346.08	FP	FENCE POST
1027	1940041.97	6576331.23	FP	FENCE POST
1028	1940054.98	6576306.00	FP	FENCE POST
1030	1940087.24	6576318.28	FP	FENCE POST
1031	1940085.78	6576321.15	FP	FENCE POST
1032	1940258.40	6576539.11	CC	CORNER CONCRETE
1033	1940272.70	6576534.59	BC	BEGIN CURVE
1034	1940276.47	6576536.55	EC	END CURVE
1035	1940277.07	6576538.46	CC	CORNER CONCRETE
1036	1940302.81	6576530.32	CC	CORNER CONCRETE
1037	1940302.21	6576528.42	BC	BEGIN CURVE
1038	1940304.17	6576524.65	EC	END CURVE
1039	1940318.96	6576519.98	CC	CORNER CONCRETE
1040	1940291.46	6576432.93	CC	CORNER CONCRETE
1041	1940220.38	6576455.38	BC	BEGIN CURVE
1042	1940208.66	6576450.75	PCC	POINT OF COMPOUND CURVE
1043	1940208.71	6576441.77	EC	END CURVE
1044	1940218.18	6576425.58	CC	CORNER CONCRETE
1045	1940168.53	6576367.46	CC	CORNER CONCRETE
1046	1940160.18	6576381.75	BC	BEGIN CURVE
1047	1940155.45	6576382.34	EC	END CURVE
1048	1940125.27	6576351.61	CC	CORNER CONCRETE
1049	1940085.99	6576321.81	CC	CORNER CONCRETE
1050	1940079.91	6576318.72	CC	CORNER CONCRETE
1051	1940075.77	6576322.64	CC	CORNER CONCRETE
1052	1940081.28	6576328.44	CC	CORNER CONCRETE
1053	1940067.02	6576341.99	CC	CORNER CONCRETE
1054	1940061.52	6576336.19	CC	CORNER CONCRETE
1055	1940058.38	6576460.92	BC	BEGIN CURVE
1056	1940078.37	6576481.42	EC	END CURVE
1057	1940086.29	6576481.42	CC	CORNER CONCRETE
1058	1940106.40	6576481.42	CC	CORNER CONCRETE
1059	1940153.41	6576481.43	BC	BEGIN CURVE
1060	1940196.95	6576488.95	PCC	POINT OF COMPOUND CURVE
1061	1940202.96	6576494.85	EC	END CURVE
1062	1940203.94	6576497.44	BC	BEGIN CURVE
1064	1940206.33	6576506.02	EC	END CURVE
1067	1940127.32	6576395.95	BC	BEGIN CURVE
1068	1940131.42	6576392.05	PCC	POINT OF COMPOUND CURVE
1070	1940123.62	6576383.85	EC	END CURVE
1071	1940096.37	6576383.16	BC	BEGIN CURVE
1074	1940092.07	6576395.06	EC	END CURVE
1079	1940091.16	6576431.10	BC	BEGIN CURVE
1081	1940126.41	6576431.98	BC	BEGIN CURVE
1082	1940094.86	6576443.19	EC	END CURVE
1086	1940048.55	6576374.11	CC	CORNER CONCRETE
1087	1940048.96	6576357.61	CC	CORNER CONCRETE
1088	1940018.34	6576356.84	CC	CORNER CONCRETE
1089	1939977.01	6576355.55	FP	FENCE POST
1090	1939976.88	6576360.55	FP	FENCE POST
1091	1939976.57	6576372.71	FP	FENCE POST
1092	1940041.48	6576331.42	CC	CORNER CONCRETE
1093	1940019.02	6576330.34	CC	CORNER CONCRETE
1094	1939962.95	6576328.90	CC	CORNER CONCRETE
1095	1939963.60	6576303.70	CC	CORNER CONCRETE
1096	1939932.36	6576302.90	CC	CORNER CONCRETE
1097	1939932.94	6576280.49	CC	CORNER CONCRETE
1098	1939924.48	6576275.48	CC	CORNER CONCRETE
1099	1939889.83	6576274.59	CC	CORNER CONCRETE
1100	1939888.98	6576307.64	CC	CORNER CONCRETE
1101	1939883.76	6576316.32	CC	CORNER CONCRETE
1102	1939891.67	6576316.53	CC	CORNER CONCRETE
1103	1939889.99	6576382.27	CC	CORNER CONCRETE
1104	1940058.85	6576442.20	CC	CORNER CONCRETE
1106	1940239.22	6576478.40	CC	CORNER CONCRETE
1107	1940254.00	6576473.72	BC	BEGIN CURVE
1108	1940256.00	6576470.12	PCC	POINT OF COMPOUND CURVE
1109	1940249.97	6576467.01	EC	END CURVE
1110	1940232.01	6576472.69	BC	BEGIN CURVE
1111	1940225.76	6576485.99	EC	END CURVE
1112	1940225.04	6576482.88	CC	CORNER CONCRETE
1113	1940226.44	6576487.69	CC	CORNER CONCRETE
1114	1939992.24	6576465.72	CC	CORNER CONCRETE
1115	1939994.57	6576373.75	CC	CORNER CONCRETE
1116	1940060.26	6576386.14	CC	CORNER CONCRETE
1118	1940157.15	6576515.07	RP	RADIUS POINT
1119	1940153.39	6576611.43	RP	RADIUS POINT
1121	1940253.10	6576470.87	RP	RADIUS POINT
1122	1940251.31	6576471.83	RP	RADIUS POINT
1123	1940235.02	6576482.22	RP	RADIUS POINT
1124	1940202.43	6576399.03	LP	LIGHT POLE
1125	1940307.08	6576476.34	LP	LIGHT POLE
1126	1940228.88	6576488.77	LP	LIGHT POLE
1127	1940198.53	6576540.24	LP	LIGHT POLE
1128	1940146.81	6576490.19	LP	LIGHT POLE
1129	1940104.01	6576437.39	LP	LIGHT POLE
1130	1940047.70	6576358.81	LP	LIGHT POLE
1131	1940030.78	6576372.41	LP	LIGHT POLE
1132	1940008.37	6576468.14	LP	LIGHT POLE
1134	1940112.23	6576339.15	LP	LIGHT POLE
1135	1940095.06	6576435.20	RP	RADIUS POINT
1136	1940096.17	6576391.16	RP	RADIUS POINT
1137	1940127.43	6576391.96	RP	RADIUS POINT
1139	1940123.42	6576391.85	RP	RADIUS POINT
1140	1940078.37	6576461.42	RP	RADIUS POINT
1141	1940193.61	6576498.37	RP	RADIUS POINT
1142	1940217.37	6576445.84	RP	RADIUS POINT
1143	1940216.39	6576446.34	RP	RADIUS POINT
1144	1940157.59	6576380.23	RP	RADIUS POINT
1145	1940026.31	6576539.22	RP	RADIUS POINT
1146	1940050.50	6576376.99	GR	GRATE
1147	1940048.28	6576465.30	GR	GRATE
1152	1940273.61	6576537.45	RP	RADIUS POINT
1153	1940305.07	6576527.51	RP	RADIUS POINT
1154	1940153.41	6576488.43	FP	FENCE POST
1155	1940078.37	6576488.42	FP	FENCE POST
1156	1940212.31	6576538.49	CC	CORNER CONCRETE
1157	1939884.98	6576269.01	CC	CORNER CONCRETE
1158	1939895.52	6576170.46	BW	BLOCK WALL
1159	1939890.51	6576268.52	BW	BLOCK WALL
1160	1939869.32	6576267.97	BW	BLOCK WALL
1161	1939869.32	6576521.59	BW	BLOCK WALL
1162	1939869.64	6576521.21	FP	FENCE POST
1163	1939869.65	6576268.30	FP	FENCE POST
1164	1939890.74	6576268.84	FP	FENCE POST
1165	1939895.76	6576170.87	FP	FENCE POST
1166	1940238.84	6576470.53	CC	CORNER CONCRETE
1167	1940035.48	6576485.72	GR	GR
1168	1939997.03	6576467.68	GR	GR
1169	1940130.31	6576436.08	PCC	POINT OF COMPOUND CURVE
1171	1940122.11	6576443.88	EC	END CURVE
1172	1940126.31	6576435.98	RP	RADIUS POINT
1173	1940122.31	6576435.88	RP	RADIUS POINT
1174	1940087.06	6576434.99	PCC	POINT OF COMPOUND CURVE
1175	1940091.06	6576435.09	RP	RADIUS POINT
1176	1940088.17	6576390.96	PCC	POINT OF COMPOUND CURVE
1177	1940092.17	6576391.06	RP	RADIUS POINT
1178	1939870.52	6576382.28	FP	FENCE POST
1179	1940051.03	6576415.56	FP	FENCE POST
1180	1939927.95	6576404.22	CC	CORNER CONCRETE
1181	1939870.96	6576402.79	CC	CORNER CONCRETE
1182	1940071.29	6576313.20	CC	CORNER CONCRETE

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

General Notes

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SITE DEVELOPMENT
HORIZONTAL CONTROL TABLE

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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

	Designed By: DG	
Scale: As Indicated	Drawn By: SD	SD/C402
Project Number: 2533	Checked By: LRB	
Date: 2/9/2026	Reviewed By: JDB	Sheet: ______ of: ______

DSA File No.:
24-35

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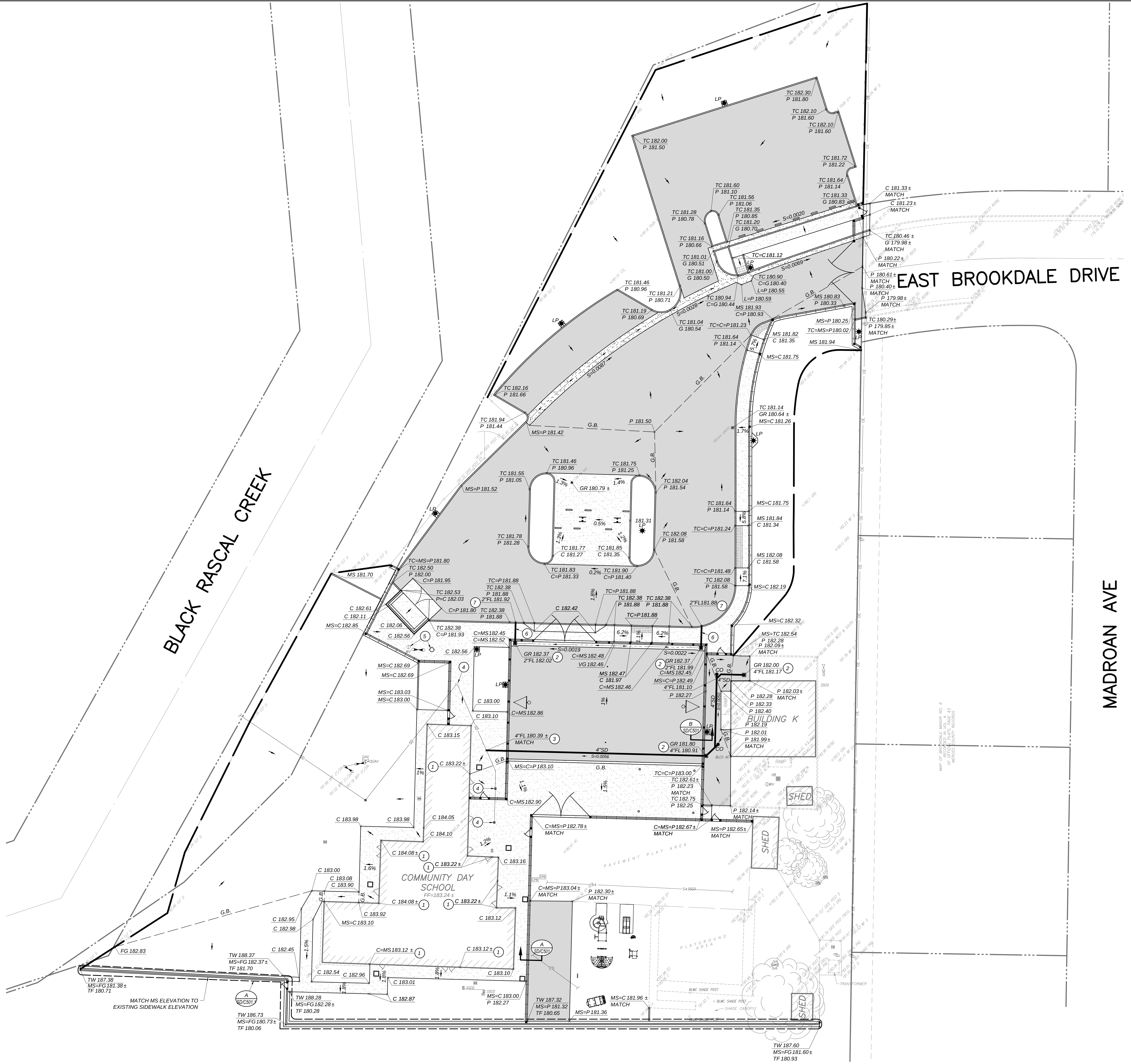
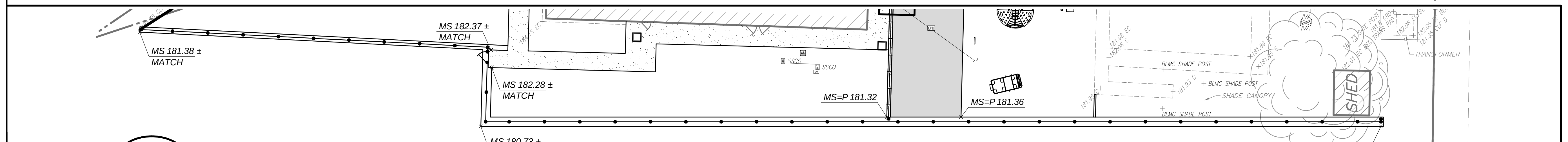
Agency Approval





A SD/C501 DEDUCTIVE ALTERNATE
NOT TO SCALE

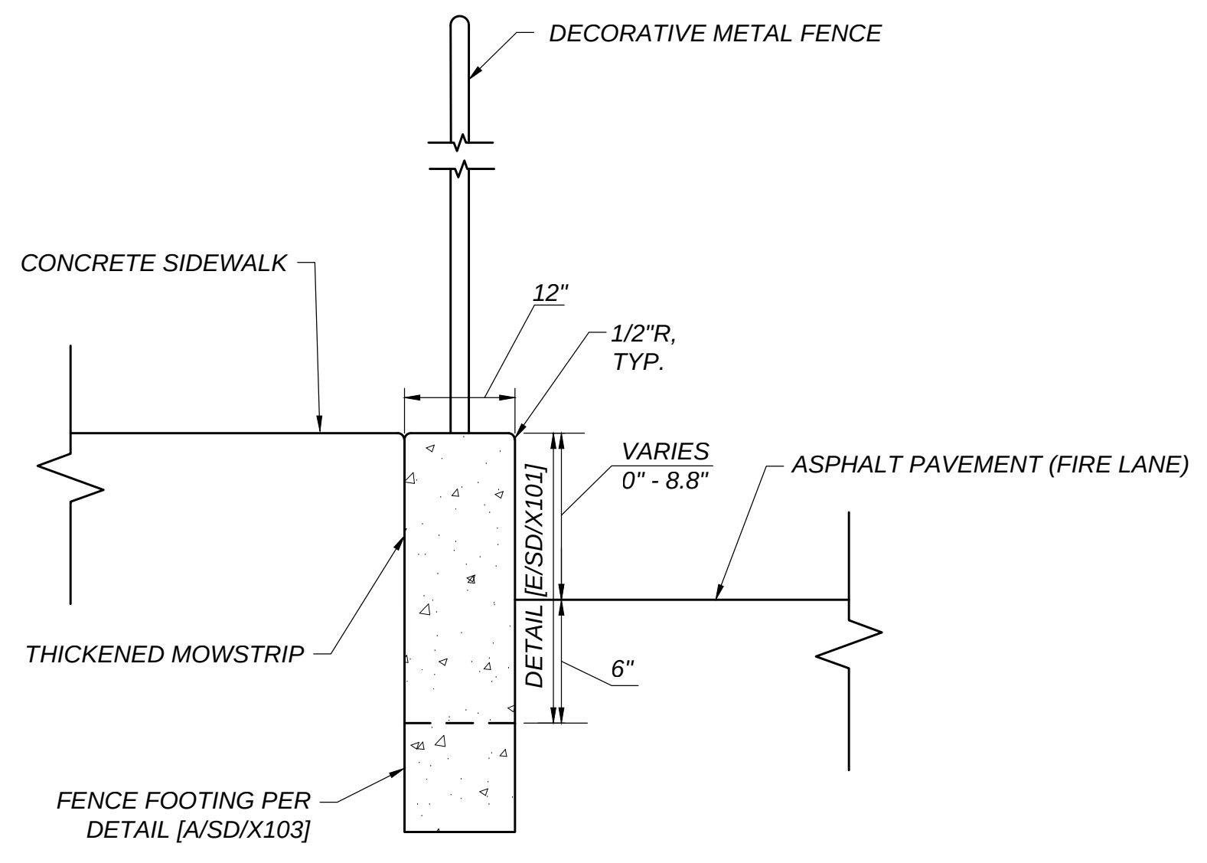
GRADING AND DRAINAGE LEGEND:

C	CONCRETE
FF	FINISHED FLOOR
FG	FINISHED GRADE
FL	FLOWLINE
G	GUTTER
GR	STORM DRAIN GRATE
MS	MOWSTRIP
P	PAVEMENT
TC	TOP OF CURB
TF	TOP OF FOOTING
TW	TOP OF WALL
VG	VALLEY GUTTER FLOWLINE
(344.9)	EXISTING ELEVATION
328.78	NEW FINISHED GRADE
→	DIRECTION OF SURFACE DRAINAGE
— G.B. —	GRADE BREAK
▬ ▬	LIMITS OF GRADING
S=0.0050 →	PIPE SLOPE AND DIRECTION OF FLOW
→ – – –	SWALE AND DIRECTION OF FLOW
①	CONCRETE ELEVATIONS AT BUILDING DOORS SHALL BE 0.02' BELOW FINISH FLOOR AND HAVE A MINIMUM 1% SLOPE AWAY FROM THE BUILDING
②	V12 STORM DRAIN INLET PER DETAIL [B/SD/X104]
③	CONNECT TO EXISTING STORM DRAIN PIPE WITH WATER-TIGHT CONNECTION
④	REPLACE EXISTING GRATE WITH SOLID LID AND SET TO NEW FINISH GRADE
⑤	ADJUST FIRE HYDRANT AND VALVE TO NEW FINISH GRADE
⑥	2"X6" RECTANGULAR STEEL TUBE WITH 3/16" (MIN.) WALL THICKNESS. PROVIDE TWO LAYERS OF 6"X6" WELDED WIRE MESH GAGE NO. 10, EXTEND 12" (MIN.) ON EACH SIDE OF TUBE.
⑦	RECTANGULAR STEEL TUBE FLOWLINE SHALL BE 1/2" ABOVE PAVEMENT ELEVATION
6"SD	STORM DRAIN PIPELINE; SIZE AS NOTED. TRENCH AND BACKFILL PER DETAIL [C/SD/X104]
S=0.0020 →	FLOWLINE SLOPE AND DIRECTION OF FLOW

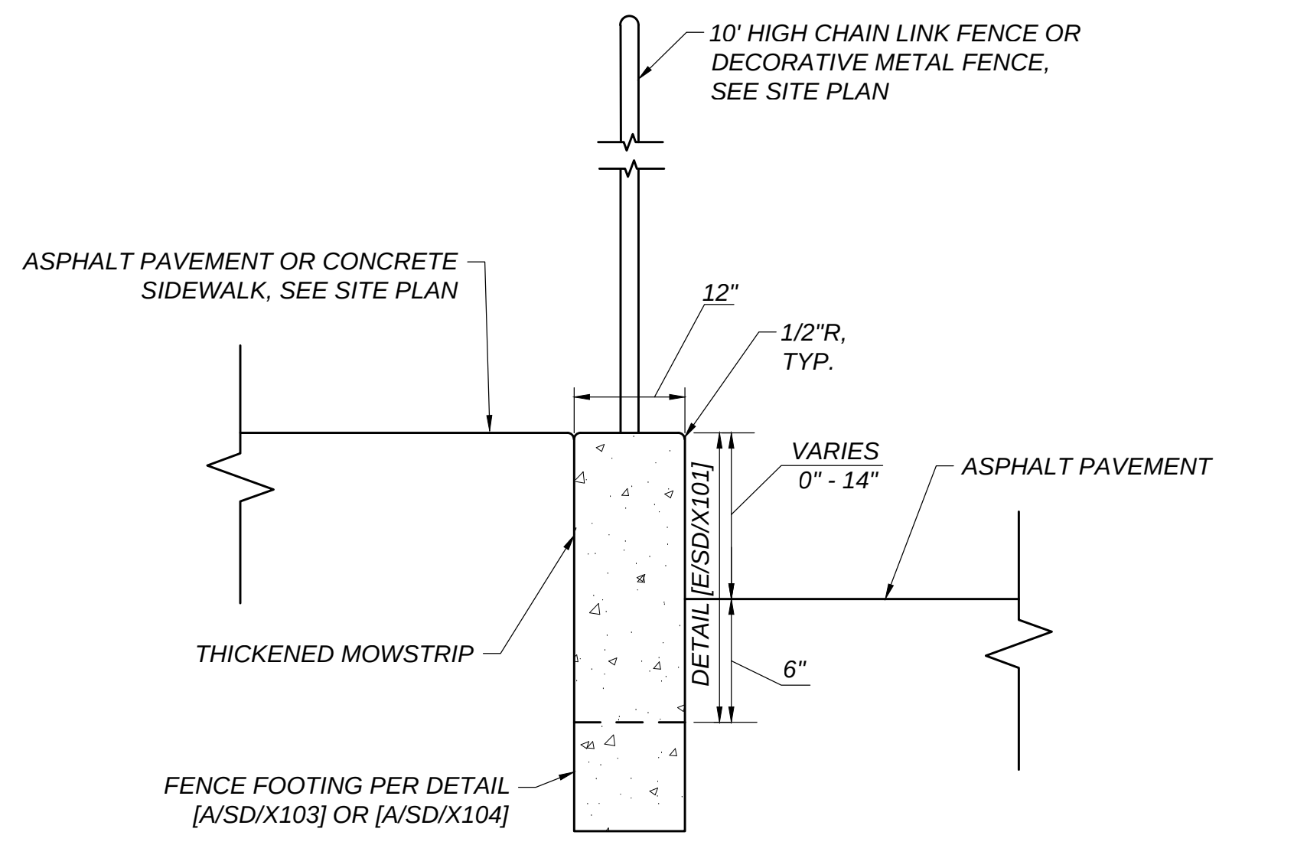
BENCHMARK:

BENCHMARK IS A MONUMENT LOCATED AT THE CENTER OF THE INTERSECTION OF MADROAN AVENUE AND EAST BROOKDALE DRIVE

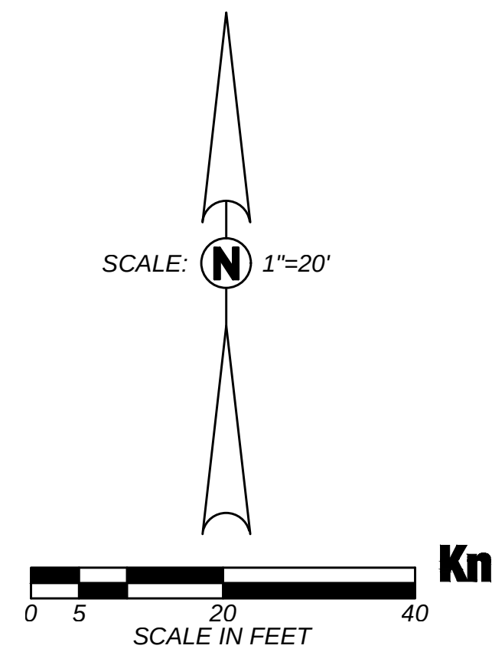
ELEV.=180.07 ASSUMED DATUM



A SD/C501 THICKENED MOWSTRIP AT FIRE LANE
NOT TO SCALE


10' HIGH CHAIN LINK FENCE OR DECORATIVE METAL FENCE, SEE SITE PLAN
ASPHALT PAVEMENT OR CONCRETE SIDEWALK, SEE SITE PLAN
12"
1/2"R, TYP.
VARIES 0" - 14"
ASPHALT PAVEMENT
DETAIL [E/SD/X101]
THICKENED MOWSTRIP
6"
FENCE FOOTING PER DETAIL [A/SD/X103] OR [A/SD/X104]

B SD/C501 THICKENED MOWSTRIP AT BASKETBALL COURT
NOT TO SCALE



CAUTION
WATCH FOR OVERHEAD POWER LINES

811
Know what's below.
Call before you dig.

GENERAL GRADING AND DRAINAGE NOTES:

THE REQUIREMENTS AND INFORMATION SET OUT BELOW ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT ENCOMPASS ALL PROJECT REQUIREMENTS DESCRIBED BY THE PROJECT PLANS AND SPECIFICATIONS AND/OR APPLICABLE LAWS, REGULATIONS AND/OR BUILDING CODES.

1. CONSTRUCTION OF ALL PROJECT SITE IMPROVEMENTS SUBJECT TO ADA ACCESS COMPLIANCE, INCLUDING ACCESSIBLE PATH OF TRAVEL, CURB RETURNS, PARKING STALL(S) AND UNLOADING AREAS, BARRIER FREE AMENITIES AND/OR OTHER APPLICABLE SITE IMPROVEMENTS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT, CALIFORNIA TITLE 24, THE CALIFORNIA BUILDING CODE, CURRENT EDITION(S).
2. CONTRACTOR SHALL FIELD VERIFY ALL GRADES AND SLOPES PRIOR TO THE PLACEMENT OF CONCRETE AND/OR PAVEMENT FOR CONFORMANCE WITH ADA ACCESS COMPLIANCE REQUIREMENTS. EXAMPLES OF MINIMUM AND MAXIMUM LIMITS RELATED TO ADA ACCESS COMPLIANCE INCLUDE, BUT ARE NOT LIMITED TO:
   a) ACCESSIBLE PATH OF TRAVEL CROSS-SLOPE SHALL NOT EXCEED 2%
   b) ACCESSIBLE PATH OF TRAVEL LONGITUDINAL SLOPES SHALL NOT EXCEED 5%
   c) RAMP LONGITUDINAL SLOPES SHALL NOT EXCEED 8.33%
   d) ACCESSIBLE WALKS SHALL NOT HAVE LESS THAN 48 INCHES IN UNOBSTRUCTED WIDTH
   e) ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION
   f) LANDINGS AT THE TOP AND BOTTOM OF ACCESSIBLE RAMPS SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION
   g) GUTTERS AND ROAD SURFACES DIRECTLY ADJACENT TO AND WITHIN 2 FEET OF A CURB RAMP SHALL HAVE A COUNTER SLOPE NOT TO EXCEED 5%
3. CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IDENTIFIED BY THE PROFESSIONAL ENGINEERING SEAL AND SIGNATURE ON THESE PLANS, OF ANY SITE CONDITION(S) AND/OR DESIGN INFORMATION THAT PREVENTS THE CONTRACTOR FROM COMPLYING WITH THE LAWS, REGULATIONS AND/OR BUILDING CODES GOVERNING ADA ACCESS COMPLIANCE.
4. GROUND SLOPES AWAY FROM BUILDING PADS IN LANDSCAPED OR DIRT AREAS SHALL BE NO LESS THAN 5% FOR AT LEAST TEN (10) FEET, OR AS OTHERWISE NOTED ON THE PLANS.
5. DRAINAGE SHALL NOT BE ALLOWED ONTO ADJACENT PROPERTY.
6. ALL FILL MATERIAL USED TO SUPPORT THE FOUNDATIONS OF ANY BUILDING OR STRUCTURE SHALL BE PLACED UNDER THE DIRECTION OF A LICENSED GEOTECHNICAL ENGINEER, AND IN COMPLIANCE WITH THE PROJECT SPECIFICATIONS. A SOILS COMPACTION REPORT SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AS REQUIRED BY THE PROJECT SPECIFICATIONS.
7. THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS REQUIRED BY THE PROJECT SPECIFICATIONS, AND BY GOVERNING PUBLIC AGENCIES.
8. THE CONTRACTOR SHALL IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AS REQUIRED BY THE PROJECT SPECIFICATIONS AND THE STATE WATER RESOURCES CONTROL BOARD'S CONSTRUCTION GENERAL PERMIT. IMPLEMENT BEST MANAGEMENT PRACTICES WITHIN PUBLIC RIGHT OF WAY PER LOCAL JURISDICTION REQUIREMENTS.
9. AS A FIRST ORDER OF WORK, THE CONTRACTOR SHALL POT HOLE THE EXISTING UTILITY LINES AT THE POINT OF CONNECTION TO VERIFY THE LOCATION, SIZE, PIPE MATERIAL AND ELEVATION SO THAT THE ENGINEER CAN MAKE ELEVATION AND/OR ALIGNMENT ADJUSTMENTS IF NECESSARY. SHOULD POT HOLING DISCOVER ANY DISCREPANCIES, CONTACT THE ENGINEER AND OBTAIN WRITTEN DIRECTION BEFORE PROCEEDING.
10. ADJUST UTILITY LIDS WITHIN NEW CONSTRUCTION AREA TO FINISHED GRADE PER DETAIL [G/SD/X102]. REPLACE ALL BROKEN LIDS WITH NEW. PROVIDE TRAFFIC RATED LIDS AND BOXES WITHIN AREAS SUBJECT TO VEHICULAR TRAFFIC.
11. WATER TEST PAVEMENT WITHIN NEW IMPROVEMENT AREA. REPLACE PAVEMENT WHERE BIRD BATHS OCCUR AFTER TEST AS DIRECTED BY THE INSPECTOR OR ENGINEER.
12. MINIMUM SLOPE ON IMPERVIOUS SURFACES PERPENDICULAR TO ADJACENT STRUCTURE(S), WITHIN ADA PATH, SHALL BE 1% MINIMUM AND 2% MAXIMUM. WHERE DOOR AND GATE LANDINGS OCCUR THE CROSS SLOPE SHALL BE 2% MAXIMUM IN ALL DIRECTIONS

General Notes

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Merced City School District
Merced, CA

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SITE DEVELOPMENT
GRADING AND DRAINAGE PLAN

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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

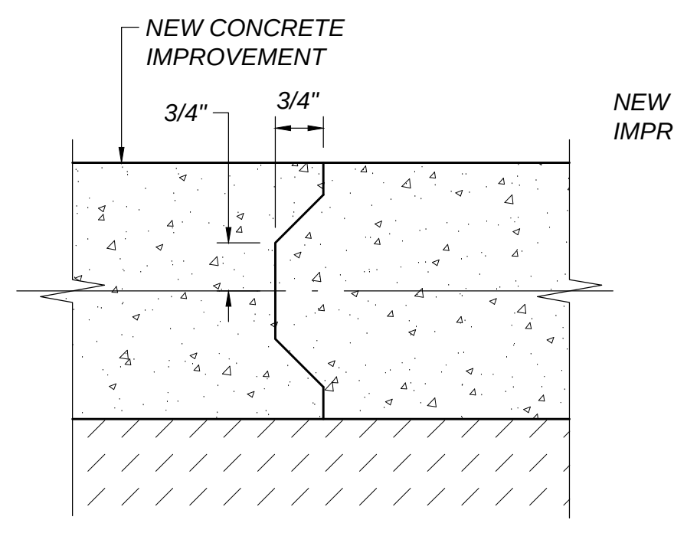
Architect

No.	Revision/Submission	Date

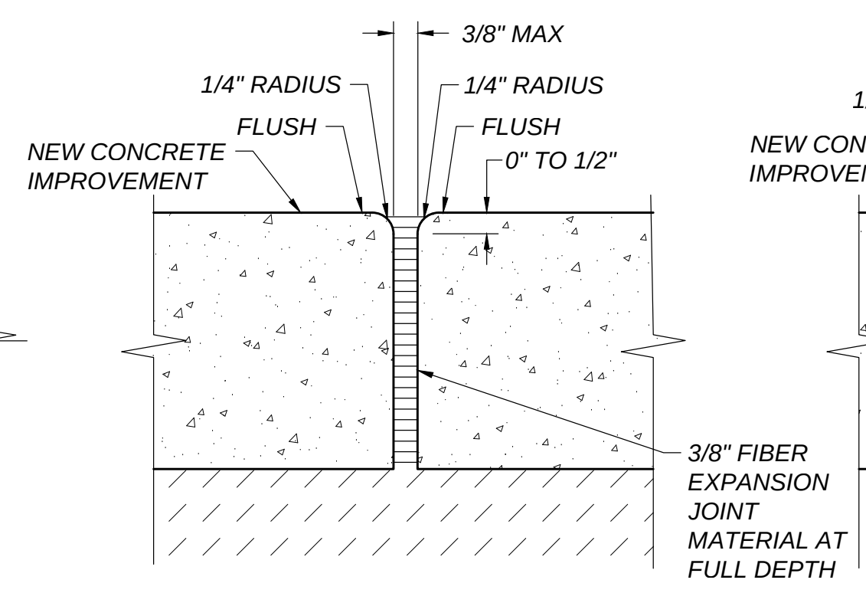
Revision

	Designed By: DG	Copyright 2026 Darden Architects
Scale: As Indicated	Drawn By: SD	SD/C501
Project Number: 2533	Checked By: LRB	
Date: 2/9/2026	Reviewed By: JDB	Sheet: ______ of: ______

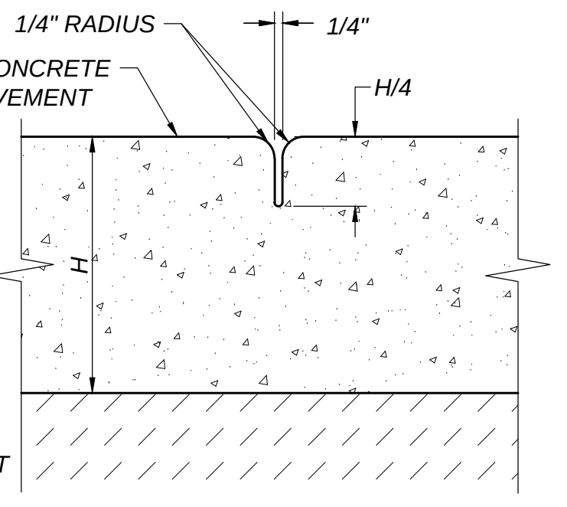
Drawing: P:\225\225-0385\Site\ProductionDrawings\225385_gr01.dwg; C501 – BCF.ctb
Plot by: dgaona Feb 05, 2026 – 5:24pm



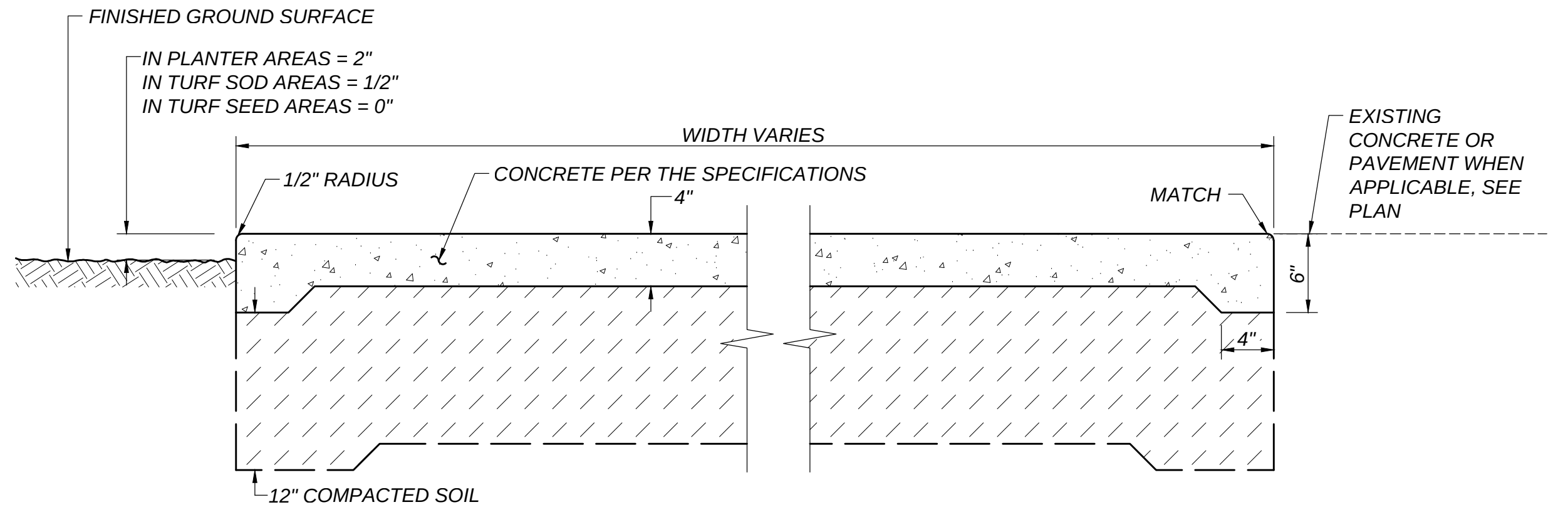
CONSTRUCTION JOINT



EXPANSION JOINT

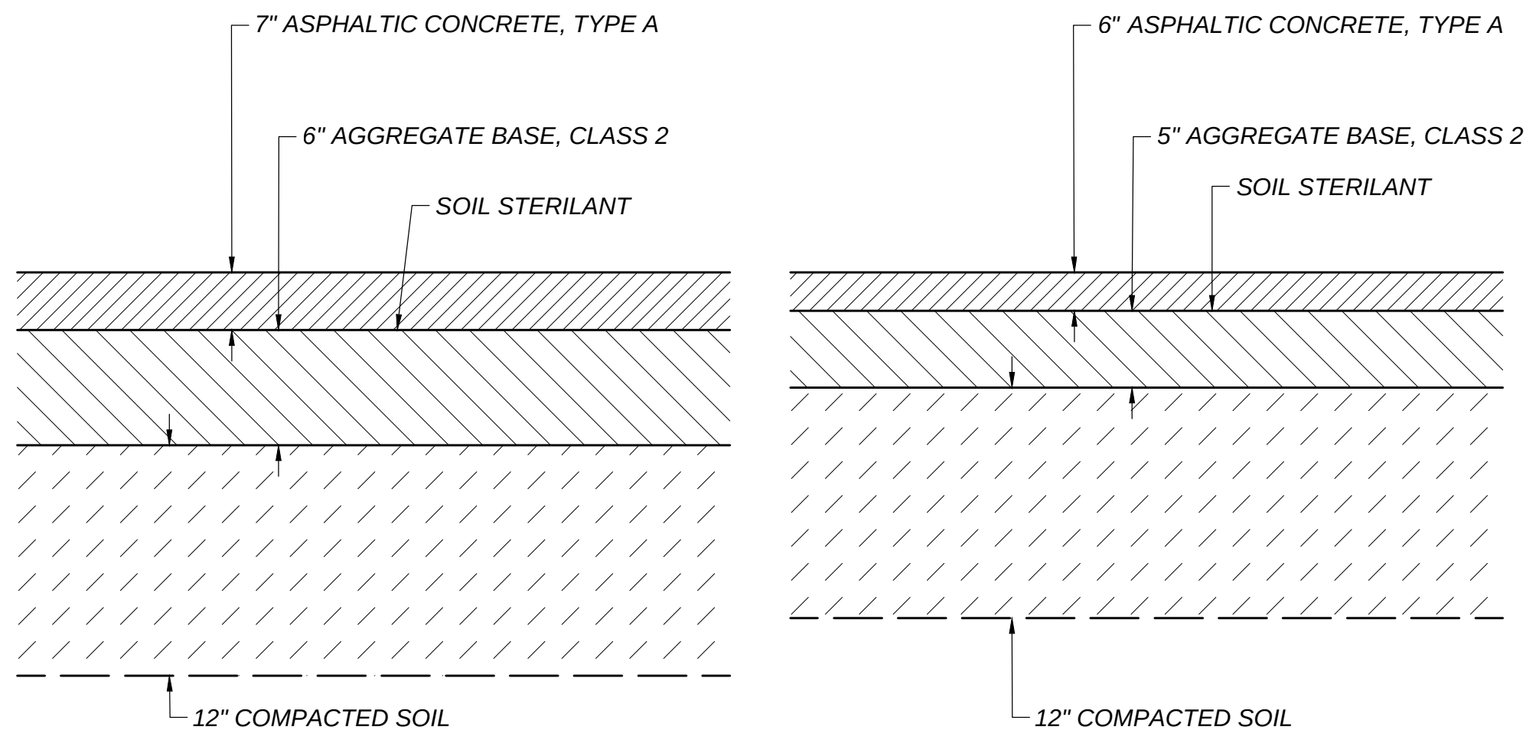


WEAKENED PLANE JOINT



A SD/X101 REGULAR-DUTY CONCRETE

NOT TO SCALE

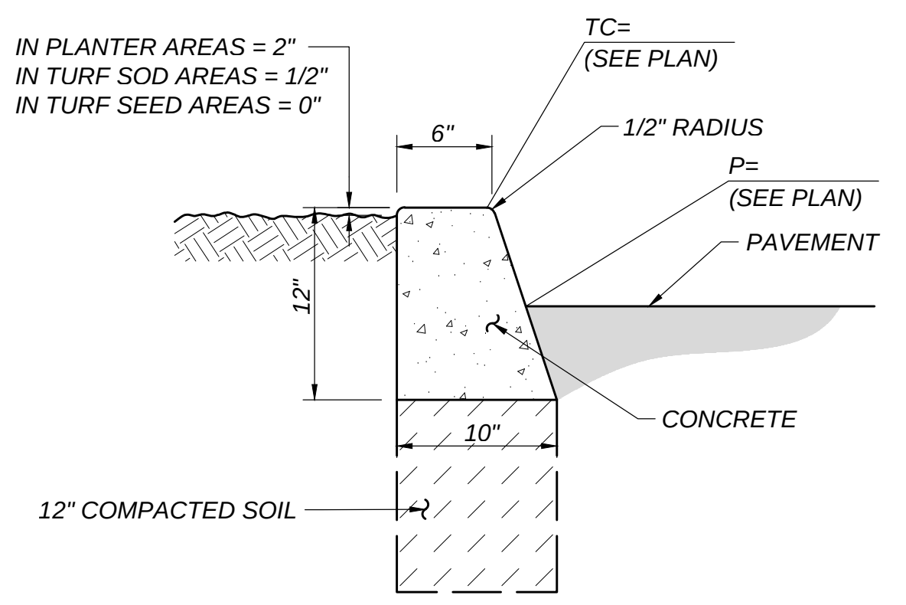

7" ASPHALTIC CONCRETE, TYPE A
6" AGGREGATE BASE, CLASS 2
SOIL STERILANT
12" COMPACTED SOIL
6" ASPHALTIC CONCRETE, TYPE A
5" AGGREGATE BASE, CLASS 2
SOIL STERILANT
12" COMPACTED SOIL

HEAVY DUTY

REGULAR DUTY

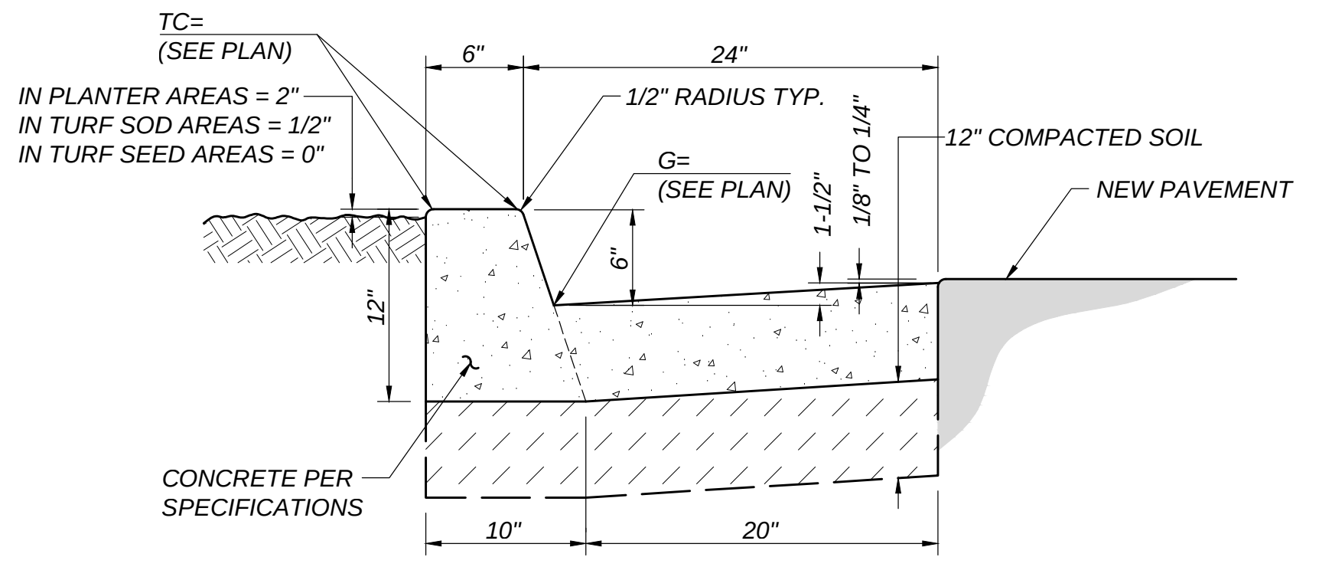
B SD/X101 ASPHALT CONCRETE PAVEMENT STRUCTURAL SECTIONS

NOT TO SCALE



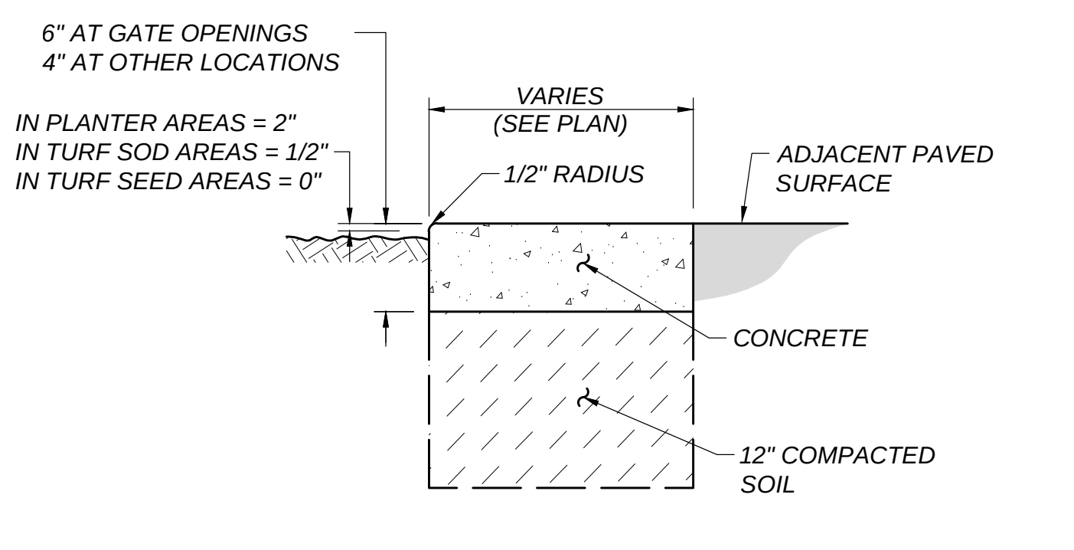
C SD/X101 CONCRETE CURB

NOT TO SCALE



D SD/X101 CONCRETE CURB AND GUTTER

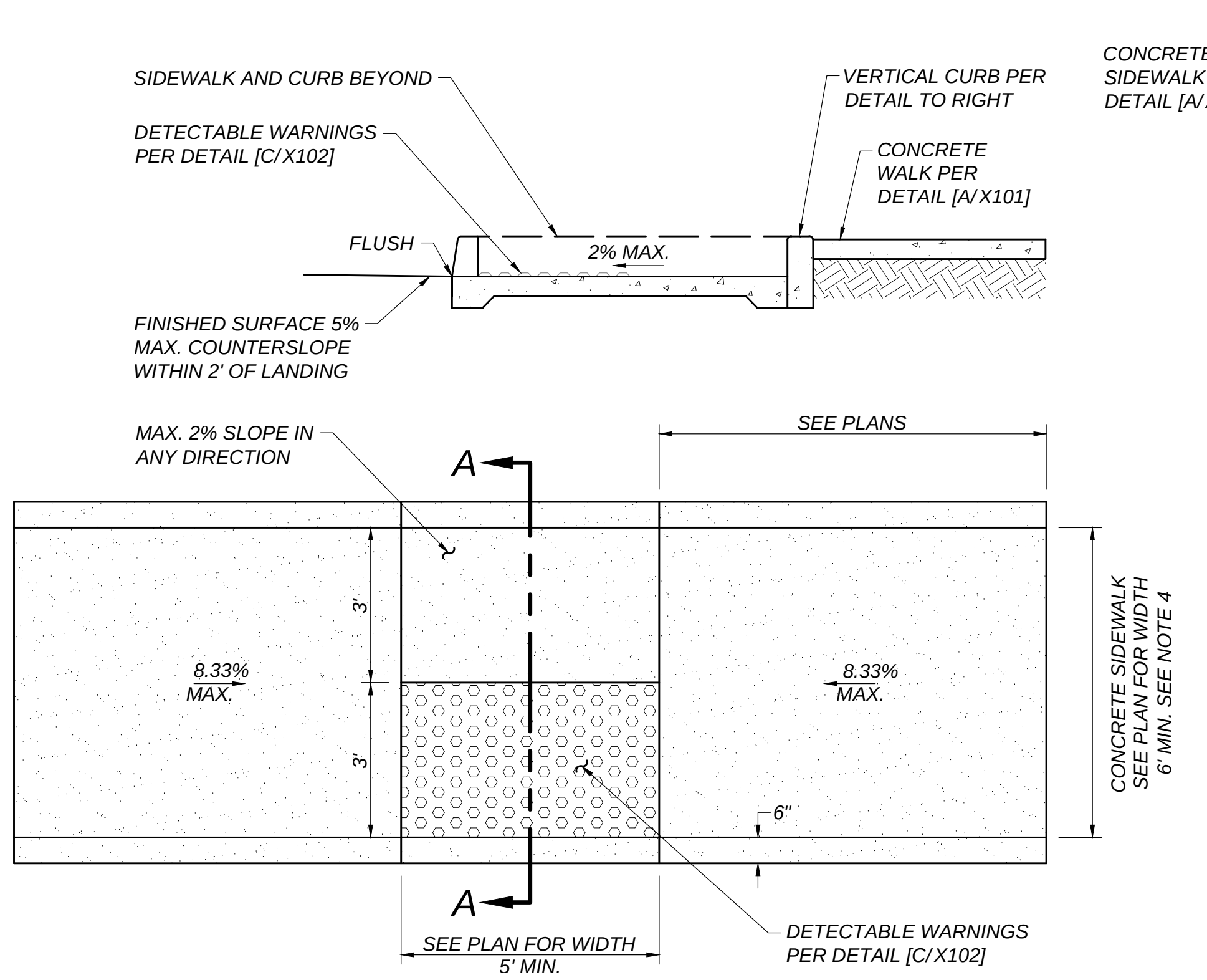
NOT TO SCALE

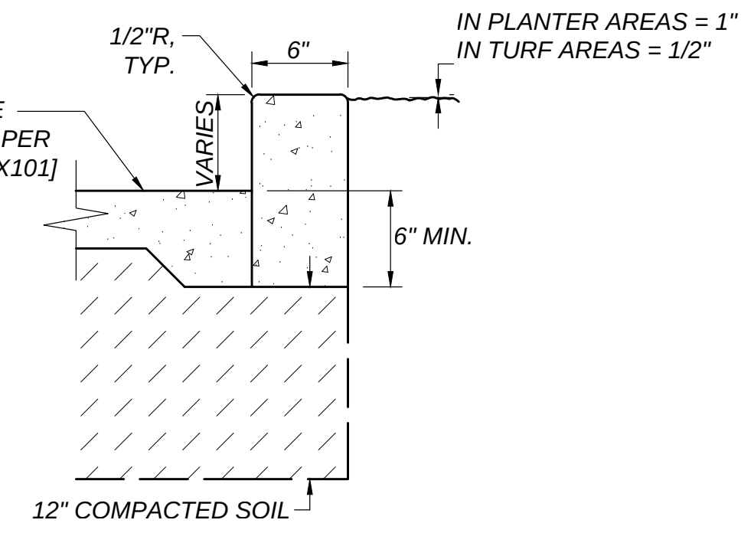


STANDARD MOWSTRIP

E SD/X101 CONCRETE MOWSTRIP

NOT TO SCALE


SIDEWALK AND CURB BEYOND
DETECTABLE WARNINGS PER DETAIL [C/X102]
FLUSH
2% MAX.
VERTICAL CURB PER DETAIL TO RIGHT
CONCRETE WALK PER DETAIL [A/X101]
FINISHED SURFACE 5% MAX. COUNTERSLOPE WITHIN 2' OF LANDING
MAX. 2% SLOPE IN ANY DIRECTION
A
SEE PLANS
3'
3'
8.33% MAX.
8.33% MAX.
6"
CONCRETE SIDEWALK SEE PLAN FOR WIDTH 6' MIN. SEE NOTE 4
A
SEE PLAN FOR WIDTH 5' MIN.
DETECTABLE WARNINGS PER DETAIL [C/X102]



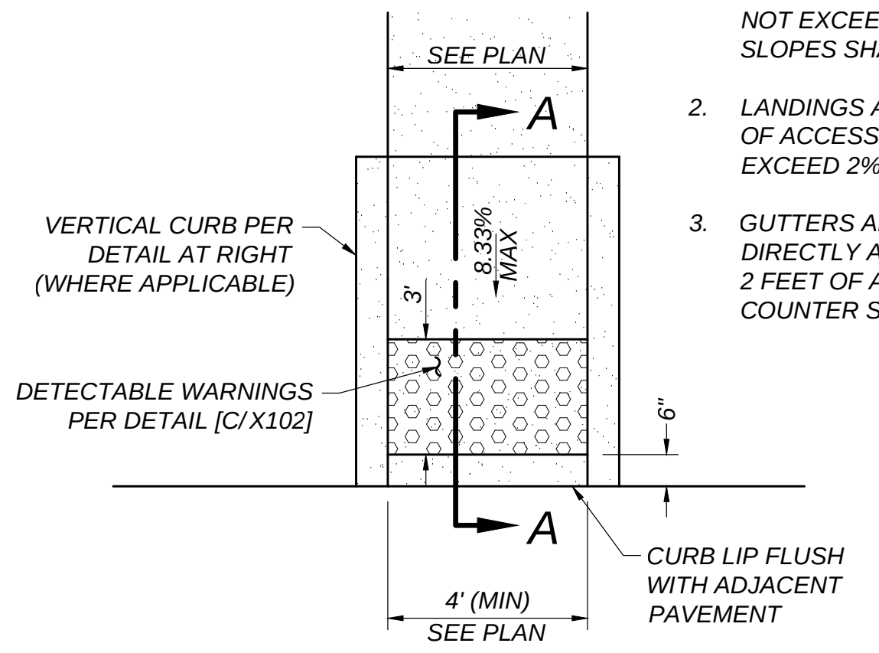
VERTICAL CURB

NOTES:

1. RAMP LONGITUDINAL SLOPES SHALL NOT EXCEED 8.33%, RAMP CROSS SLOPES SHALL NOT EXCEED 2%.
2. LANDINGS AT THE TOP AND BOTTOM OF ACCESSIBLE RAMPS SHALL NOT EXCEED 2% IN ANY DIRECTION.
3. GUTTERS AND ROAD SURFACES DIRECTLY ADJACENT TO AND WITHIN 2 FEET OF A CURB RAMP MAY HAVE A COUNTER SLOPE NOT EXCEEDING 5%.
4. WHERE IT IS TECHNICALLY INFEASIBLE TO PROVIDE A MINIMUM 72 INCHES WIDE TURNING SPACE, AS MEASURED PERPENDICULAR THE CURB, THE DEPTH OF DETECTABLE WARNINGS MAY BE REDUCED TO 24 INCHES MINIMUM.

F SD/X101 ACCESSIBLE CURB RAMP SECTION

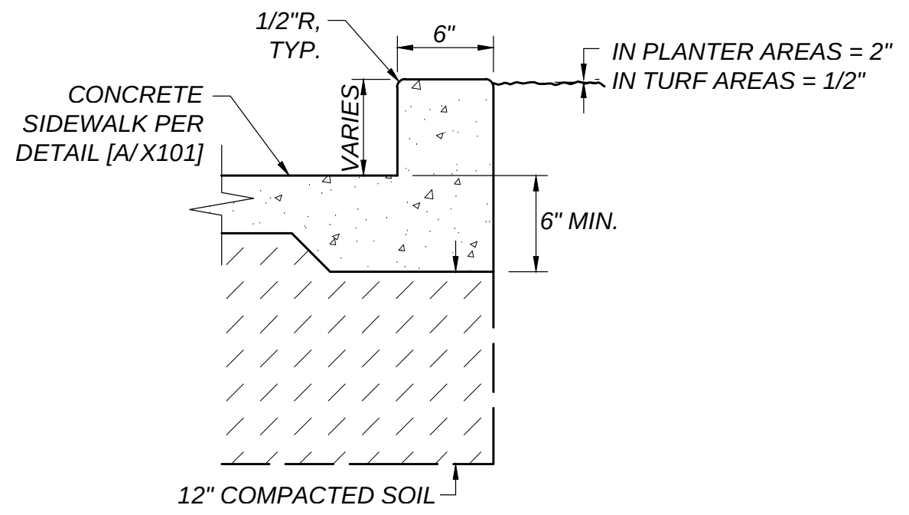
NOT TO SCALE


SEE PLAN
A
8.33% MAX
3'
VERTICAL CURB PER DETAIL AT RIGHT (WHERE APPLICABLE)
DETECTABLE WARNINGS PER DETAIL [C/X102]
6"
A
CURB LIP FLUSH WITH ADJACENT PAVEMENT
4' (MIN)
SEE PLAN

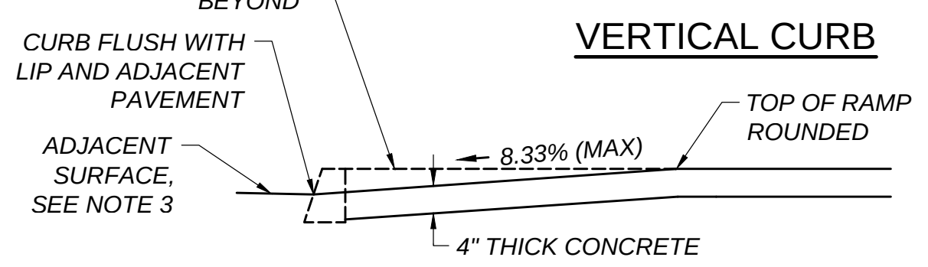
PLAN

NOTES:

1. RAMP LONGITUDINAL SLOPES SHALL NOT EXCEED 8.33%, RAMP CROSS SLOPES SHALL NOT EXCEED 2%.
2. LANDINGS AT THE TOP AND BOTTOM OF ACCESSIBLE RAMPS SHALL NOT EXCEED 2% IN ANY DIRECTION.
3. GUTTERS AND ROAD SURFACES DIRECTLY ADJACENT TO AND WITHIN 2 FEET OF A CURB RAMP MAY HAVE A COUNTER SLOPE NOT EXCEEDING 5%.



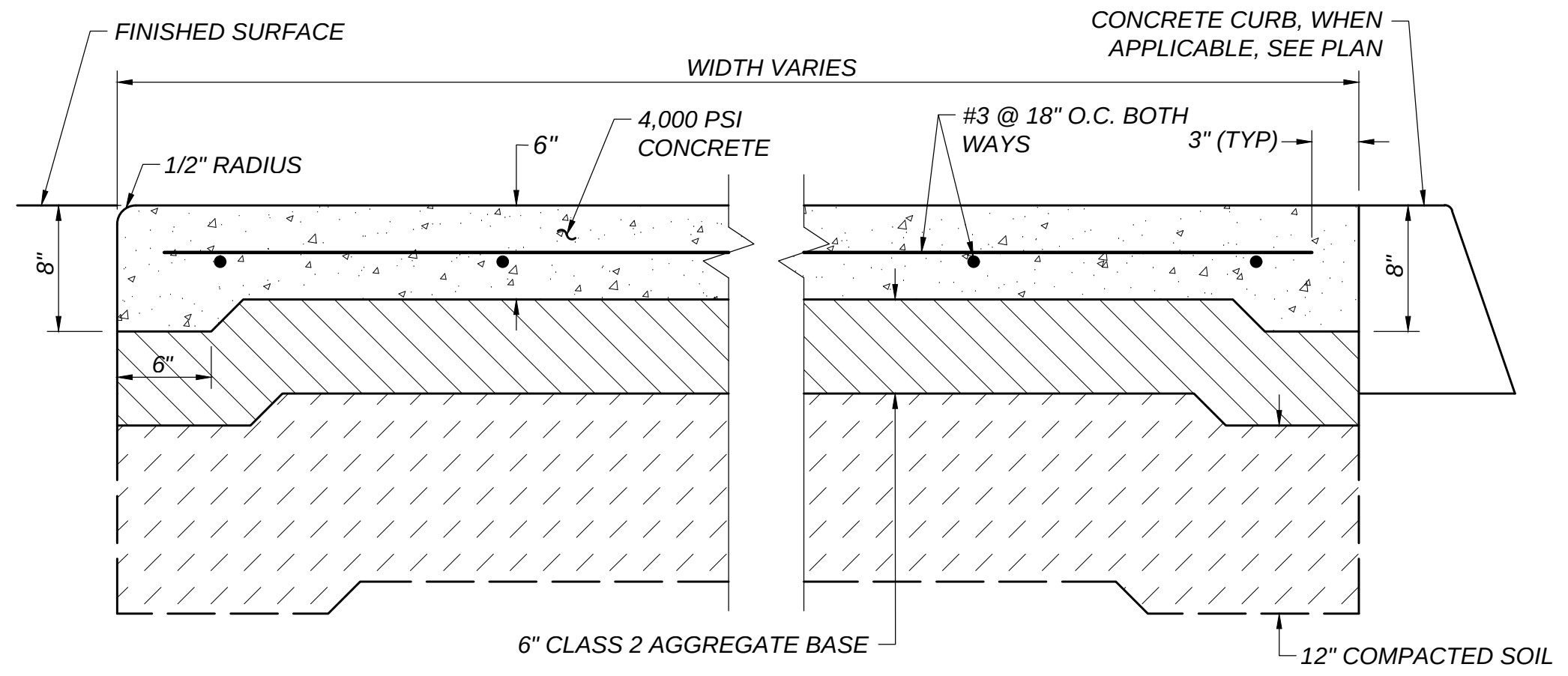
VERTICAL CURB


VERTICAL CURB BEYOND
CURB FLUSH WITH LIP AND ADJACENT PAVEMENT
ADJACENT SURFACE, SEE NOTE 3
8.33% (MAX)
TOP OF RAMP ROUNDED
4" THICK CONCRETE

SECTION A-A

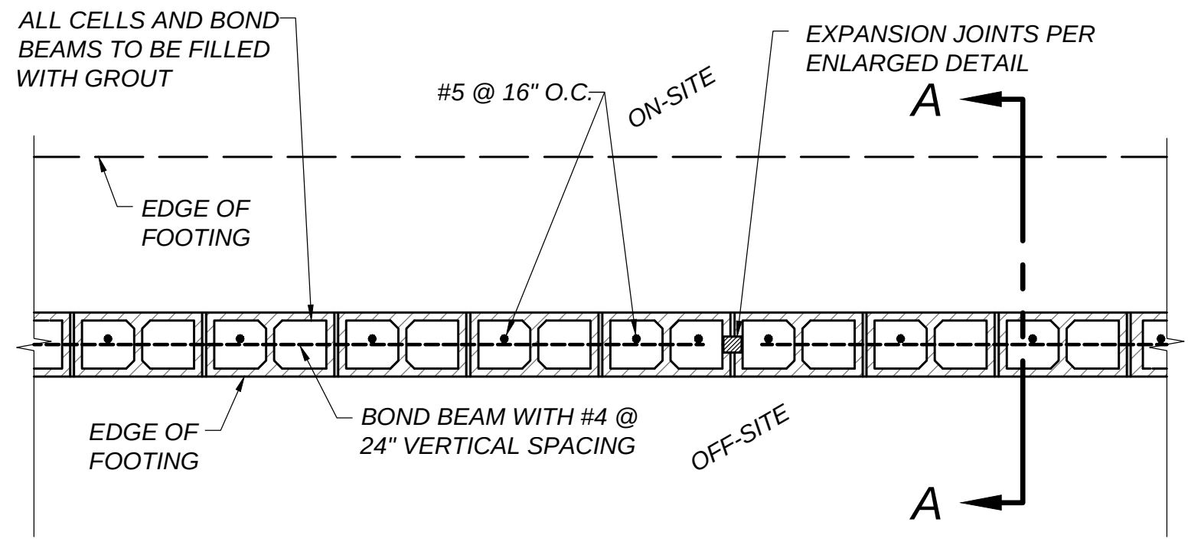
G SD/X101 ACCESSIBLE CURB RAMP SECTION

NOT TO SCALE

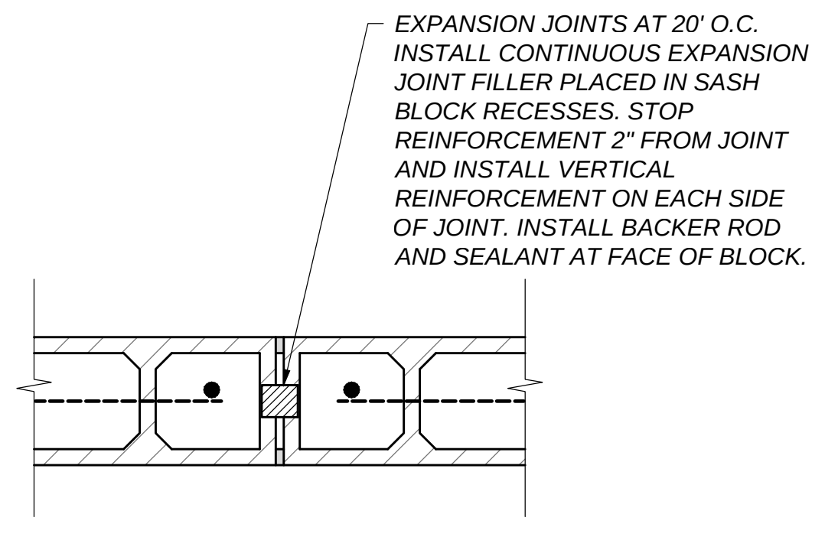


H SD/X101 HEAVY DUTY CONCRETE PAVEMENT STRUCTURAL SECTION

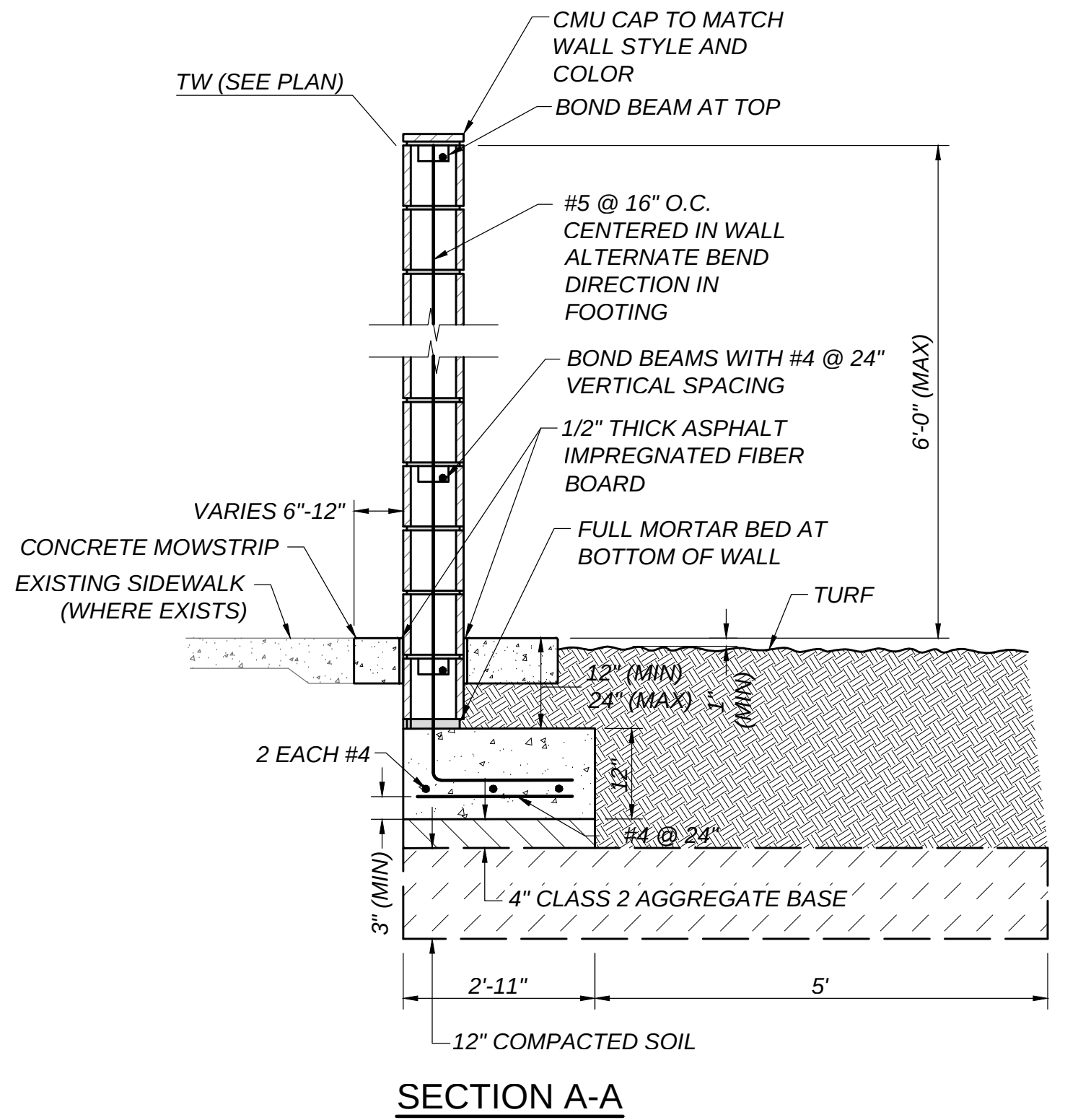
NOT TO SCALE


ALL CELLS AND BOND BEAMS TO BE FILLED WITH GROUT
#5 @ 16" O.C.
ON-SITE
EXPANSION JOINTS PER ENLARGED DETAIL
A
EDGE OF FOOTING
EDGE OF FOOTING
BOND BEAM WITH #4 @ 24" VERTICAL SPACING
OFF-SITE
A

PLAN VIEW


EXPANSION JOINTS AT 20' O.C. INSTALL CONTINUOUS EXPANSION JOINT FILLER PLACED IN SASH BLOCK RECESSES. STOP REINFORCEMENT 2" FROM JOINT AND INSTALL VERTICAL REINFORCEMENT ON EACH SIDE OF JOINT. INSTALL BACKER ROD AND SEALANT AT FACE OF BLOCK.

EXPANSION JOINT


CMU CAP TO MATCH WALL STYLE AND COLOR
TW (SEE PLAN)
BOND BEAM AT TOP
#5 @ 16" O.C. CENTERED IN WALL ALTERNATE BEND DIRECTION IN FOOTING
BOND BEAMS WITH #4 @ 24" VERTICAL SPACING
1/2" THICK ASPHALT IMPREGNATED FIBER BOARD
6'-0" (MAX)
VARIES 6"-12"
CONCRETE MOWSTRIP
FULL MORTAR BED AT BOTTOM OF WALL
EXISTING SIDEWALK (WHERE EXISTS)
TURF
12" (MIN)
24" (MAX)
1" (MIN)
2 EACH #4
12"
#4 @ 24"
3" (MIN)
4" CLASS 2 AGGREGATE BASE
2'-11"
5'
12" COMPACTED SOIL

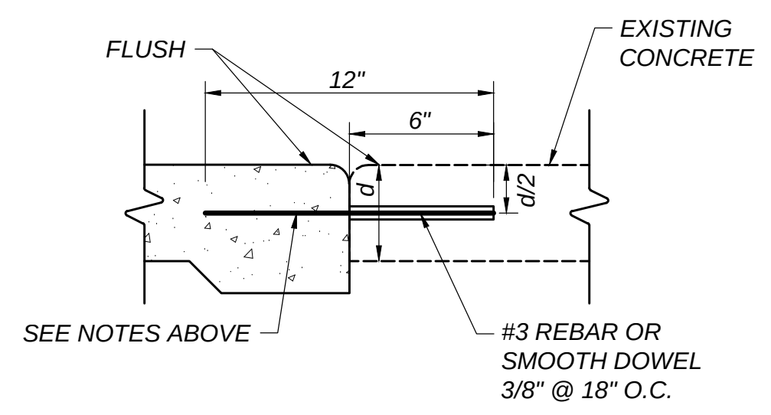
SECTION A-A

MASONRY WALL NOTES

1. REFER TO ARCHITECTURAL FINISH SCHEDULE FOR SURFACE TEXTURE, BLOCK COLOR, STYLE, GROUT COLOR AND PATTERN BOND. UNPAINTED BLOCK SHALL BE SEALED PER THE TECHNICAL SPECIFICATIONS.
2. GROUT ALL CELLS. GROUT SHALL BE 2,000 PSI AFTER 28 DAYS.
3. CONCRETE FOOTINGS SHALL BE 4,000 PSI AFTER 28 DAYS.
4. ALL MASONRY UNITS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI (f'm).
5. REINFORCING STEEL SHALL BE DEFORMED BARS GRADE 60 WITH A MINIMUM YIELD STRENGTH OF 60,000 PSI (f'y).
6. ALL JOINTS SHALL BE TOOLED CONCAVE.
7. ALL REINFORCING STEEL SHALL HAVE A MINIMUM LAP SPLICE LENGTH OF 72 BAR DIAMETERS AND AN EDGE CLEAR DISTANCE OF 3 INCHES UNLESS OTHERWISE NOTED.
8. DEVELOPMENT LENGTH FOR HOOKED BARS SHALL BE A MINIMUM OF 12 BAR DIAMETERS.
9. CONTRACTOR SHALL PLACE LOOSE BACKFILL AGAINST COMPLETED WALL NO SOONER THAN 7 DAYS FOLLOWING WALL CONSTRUCTION.
10. MASONRY UNITS INSTALLED BELOW GRADE SHALL RECEIVE AN APPLICATION OF THOROSEAL AS MANUFACTURED BY THORO SYSTEMS PRODUCTS, OR APPROVED EQUAL.

I SD/X101 CMU BLOCK WALL

NOT TO SCALE

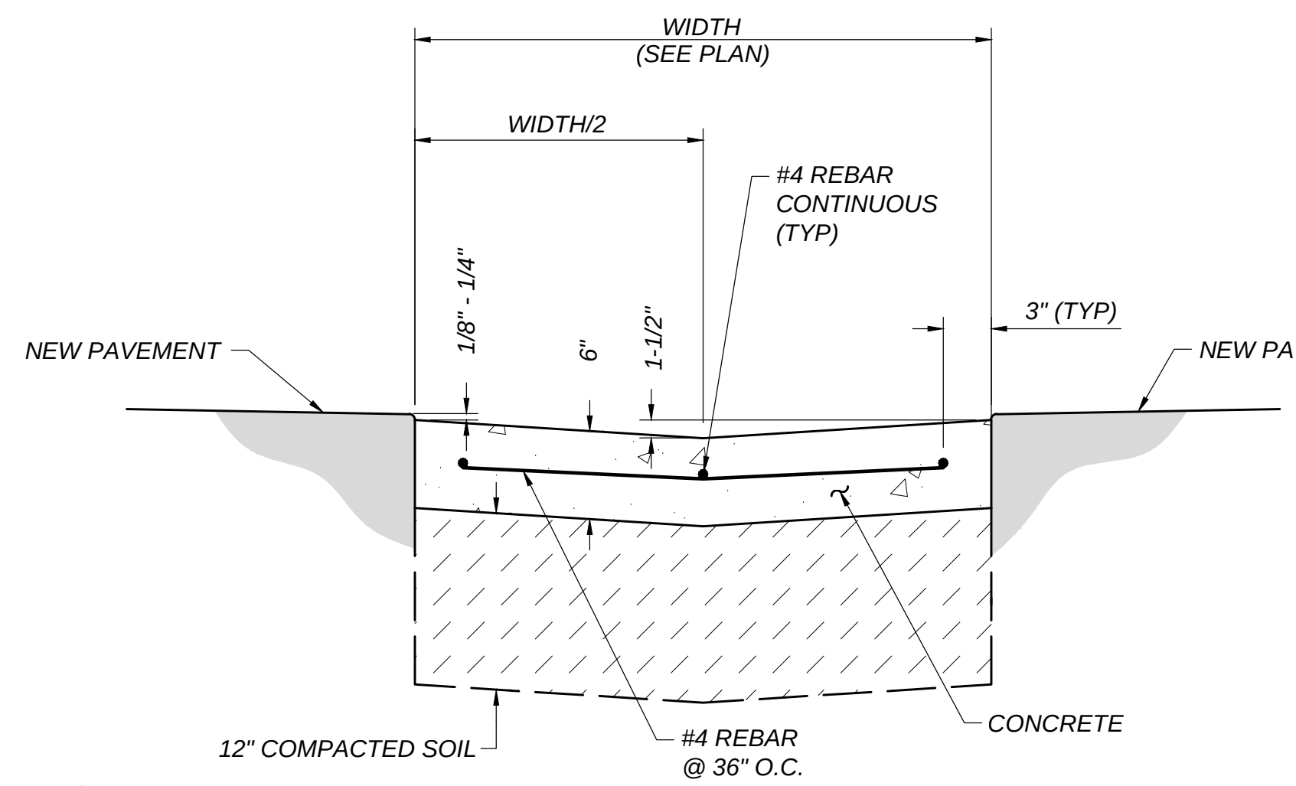


NOTES:

1. DRILL HOLE 1/8" LARGER THAN DOWEL DIAMETER.
2. CLEAN HOLE THOROUGHLY OF DUST AND FRAGMENTS WITH WATER, WIRE BRUSH, AND AIR.
3. FILL HOLE WITH APPROVED ADHESIVE BEFORE INSERTING DOWEL INTO EXISTING CONCRETE.
4. WHERE SMOOTH DOWEL IS USED, APPLY BOND BREAKER TO SIDE IN NEW CONCRETE AS REQUIRED TO ALLOW HORIZONTAL MOVEMENT OF CONCRETE.
5. WHERE DEFORMED REBAR DOWEL IS USED, PROVIDE APPROVED WRAP ON SIDE IN NEW CONCRETE AS REQUIRED TO ALLOW HORIZONTAL MOVEMENT OF CONCRETE.

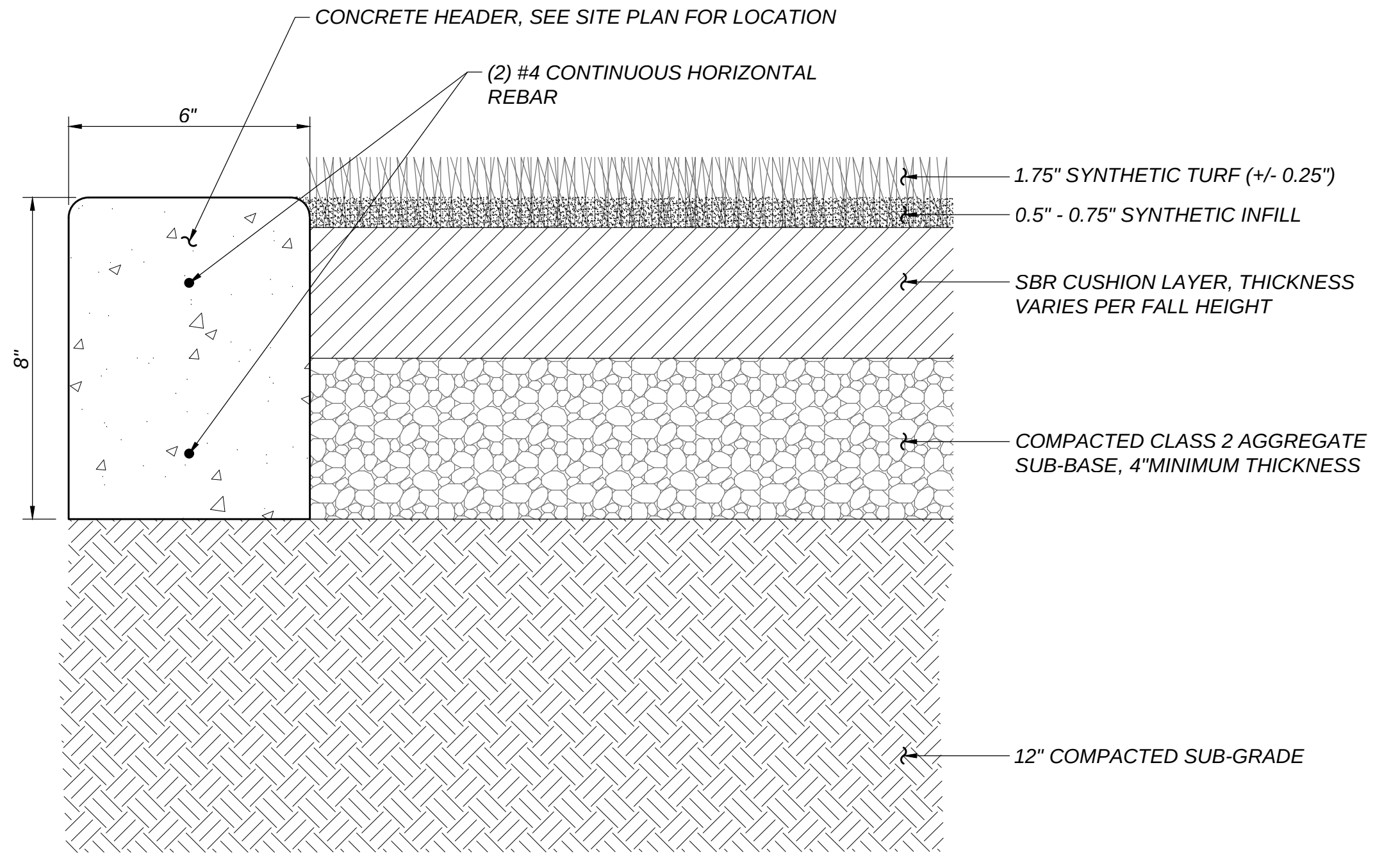
J SD/X101 DOWEL BAR

NOT TO SCALE



K SD/X101 REINFORCED CONCRETE VALLEY GUTTER

NOT TO SCALE


CONCRETE HEADER, SEE SITE PLAN FOR LOCATION
(2) #4 CONTINUOUS HORIZONTAL REBAR
6"
8"
1.75" SYNTHETIC TURF (+/- 0.25")
0.5" - 0.75" SYNTHETIC INFILL
SBR CUSHION LAYER, THICKNESS VARIES PER FALL HEIGHT
COMPACTED CLASS 2 AGGREGATE SUB-BASE, 4"MINIMUM THICKNESS
12" COMPACTED SUB-GRADE

GENERAL NOTE :

SYNTHETIC TURFGRASS SECTION MATERIALS SUPPLIED BY OWNER

L SD/X101 PLAYGROUND SYNTHETIC TURFGRASS & HEADER

NOT TO SCALE

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

General Notes

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Merced City School District
Merced, CA

Project

SITE DEVELOPMENT
DETAILS

Drawing

ARCHITECTURE
PLANNING
INTERIORS
www.dardenarchitects.com
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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

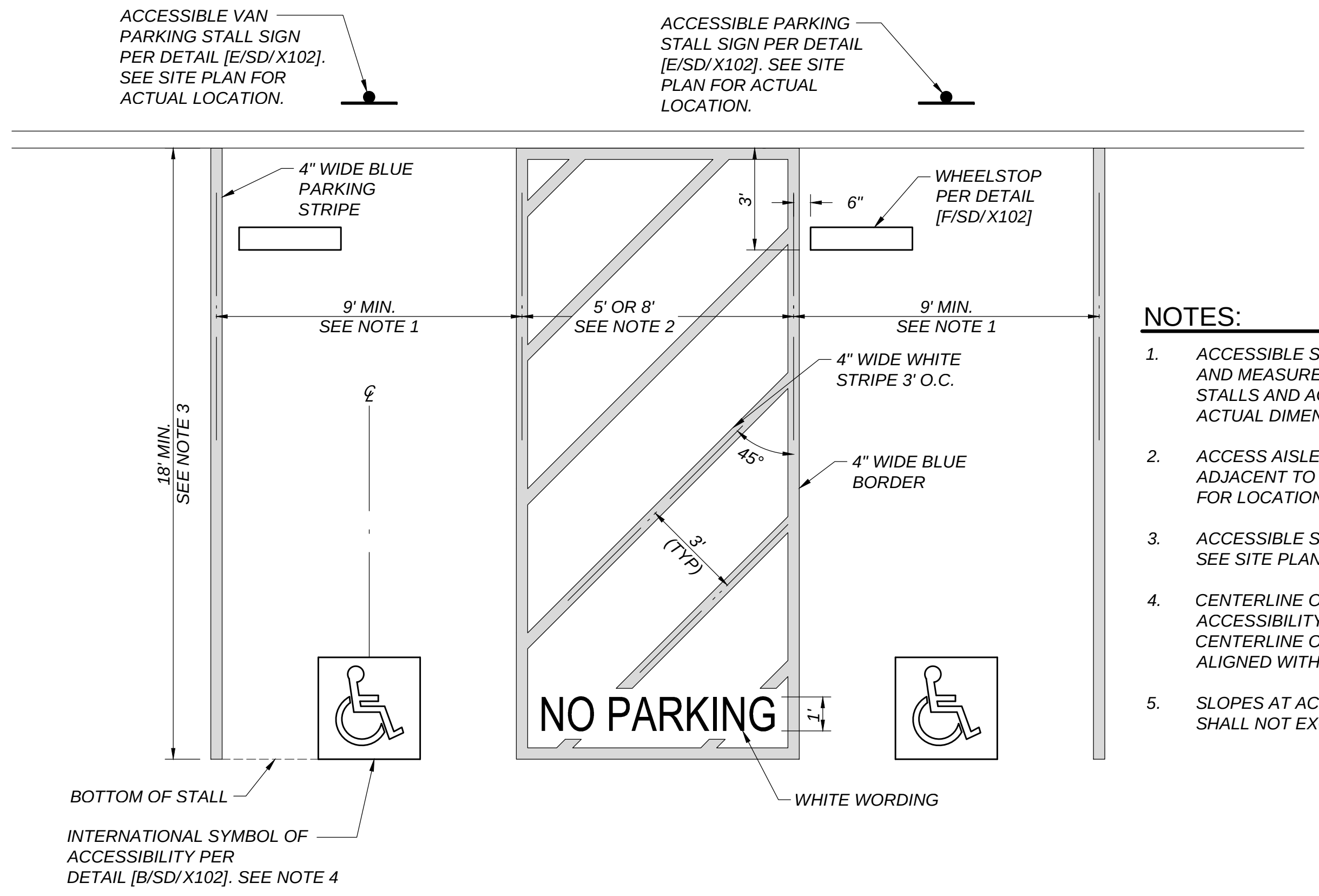
Architect

No.	Revision/Submission	Date

Revision

	Designed By: DG	Copyright 2026 Darden Architects
Scale: As Indicated	Drawn By: SD	SD/X101
Project Number: 2533	Checked By: LRB	
Date: 2/9/2026	Reviewed By: JDB	Sheet: ________ of: ________

Drawing: P:\225\225-0385\Site\ProductionDrawings\225385_dt01.dwg; X101 – BCF.ctb
Plot by: dgaona Feb 05, 2026 – 4:02pm

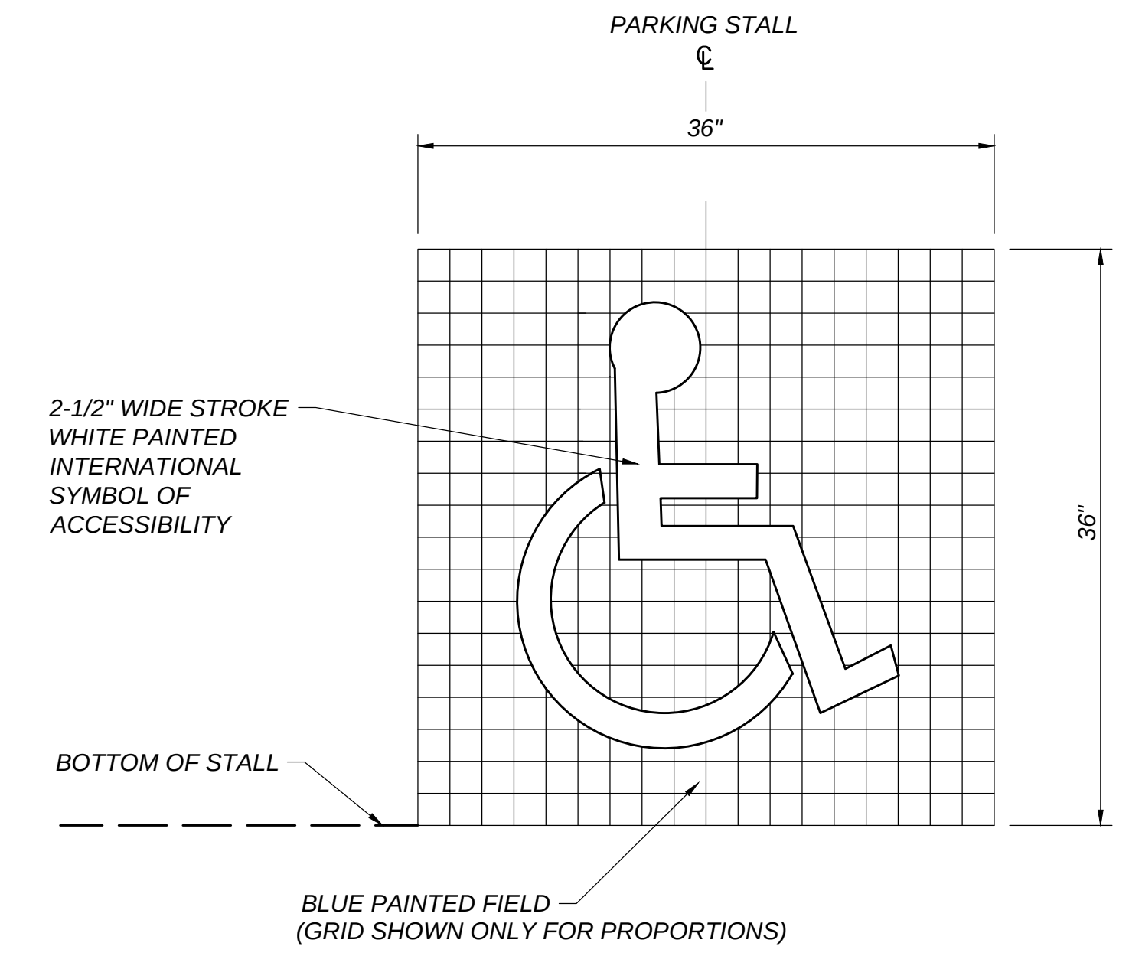

ACCESSIBLE VAN PARKING STALL SIGN PER DETAIL [E/SD/X102]. SEE SITE PLAN FOR ACTUAL LOCATION.
ACCESSIBLE PARKING STALL SIGN PER DETAIL [E/SD/X102]. SEE SITE PLAN FOR ACTUAL LOCATION.
4" WIDE BLUE PARKING STRIPE
WHEELSTOP PER DETAIL [F/SD/X102]
3'
6"
9' MIN. SEE NOTE 1
5' OR 8' SEE NOTE 2
9' MIN. SEE NOTE 1
4" WIDE WHITE STRIPE 3' O.C.
45°
4" WIDE BLUE BORDER
3' (TYP)
18' MIN. SEE NOTE 3
℄
NO PARKING
1'
BOTTOM OF STALL
WHITE WORDING
INTERNATIONAL SYMBOL OF ACCESSIBILITY PER DETAIL [B/SD/X102]. SEE NOTE 4

NOTES:

1. ACCESSIBLE STALLS SHALL BE A MINIMUM OF 9' WIDE AND MEASURED FROM THE CENTERLINE OF PARKING STALLS AND ACCESS AISLES. SEE SITE PLAN FOR ACTUAL DIMENSIONS.
2. ACCESS AISLES SHALL BE A MINIMUM OF 5', OR 8' WHEN ADJACENT TO A VAN ACCESSIBLE STALL. SEE SITE PLAN FOR LOCATION AND ACTUAL DIMENSIONS.
3. ACCESSIBLE STALLS SHALL BE A MINIMUM OF 18' LONG. SEE SITE PLAN FOR ACTUAL DIMENSIONS.
4. CENTERLINE OF INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE A MAXIMUM OF 6" FROM THE CENTERLINE OF THE STALL, AND THE BOTTOM SHALL BE ALIGNED WITH THE BOTTOM OF THE STALL.
5. SLOPES AT ACCESSIBLE STALLS AND ACCESS AISLES SHALL NOT EXCEED 2% IN ANY DIRECTION.

A SD/X102 ACCESSIBLE PARKING STALLS

NOT TO SCALE

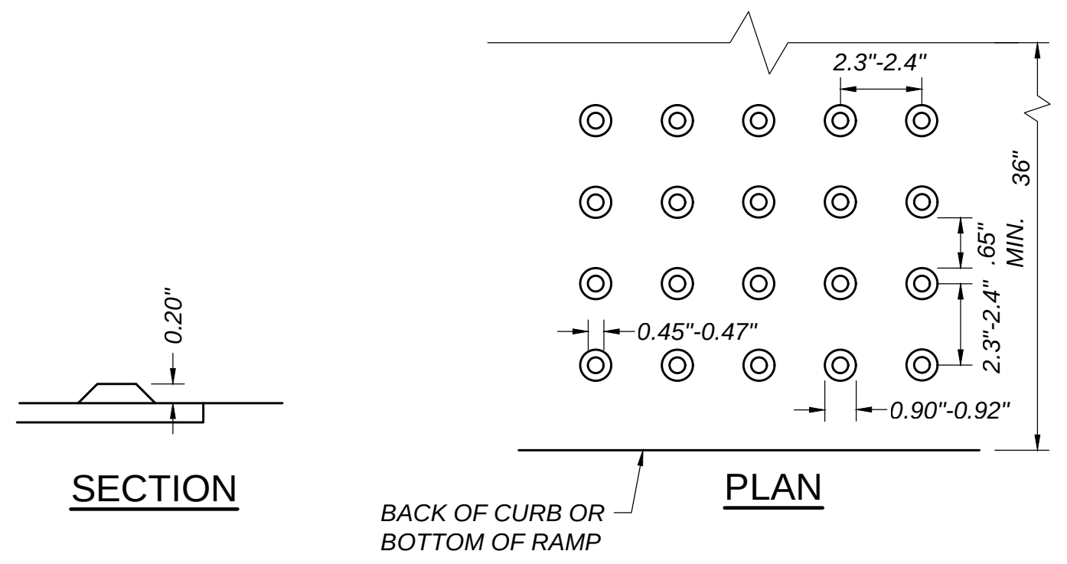

PARKING STALL ℄
36"
36"
2-1/2" WIDE STROKE WHITE PAINTED INTERNATIONAL SYMBOL OF ACCESSIBILITY
BOTTOM OF STALL
BLUE PAINTED FIELD (GRID SHOWN ONLY FOR PROPORTIONS)

B SD/X102 ACCESSIBLE SYMBOL

NOT TO SCALE

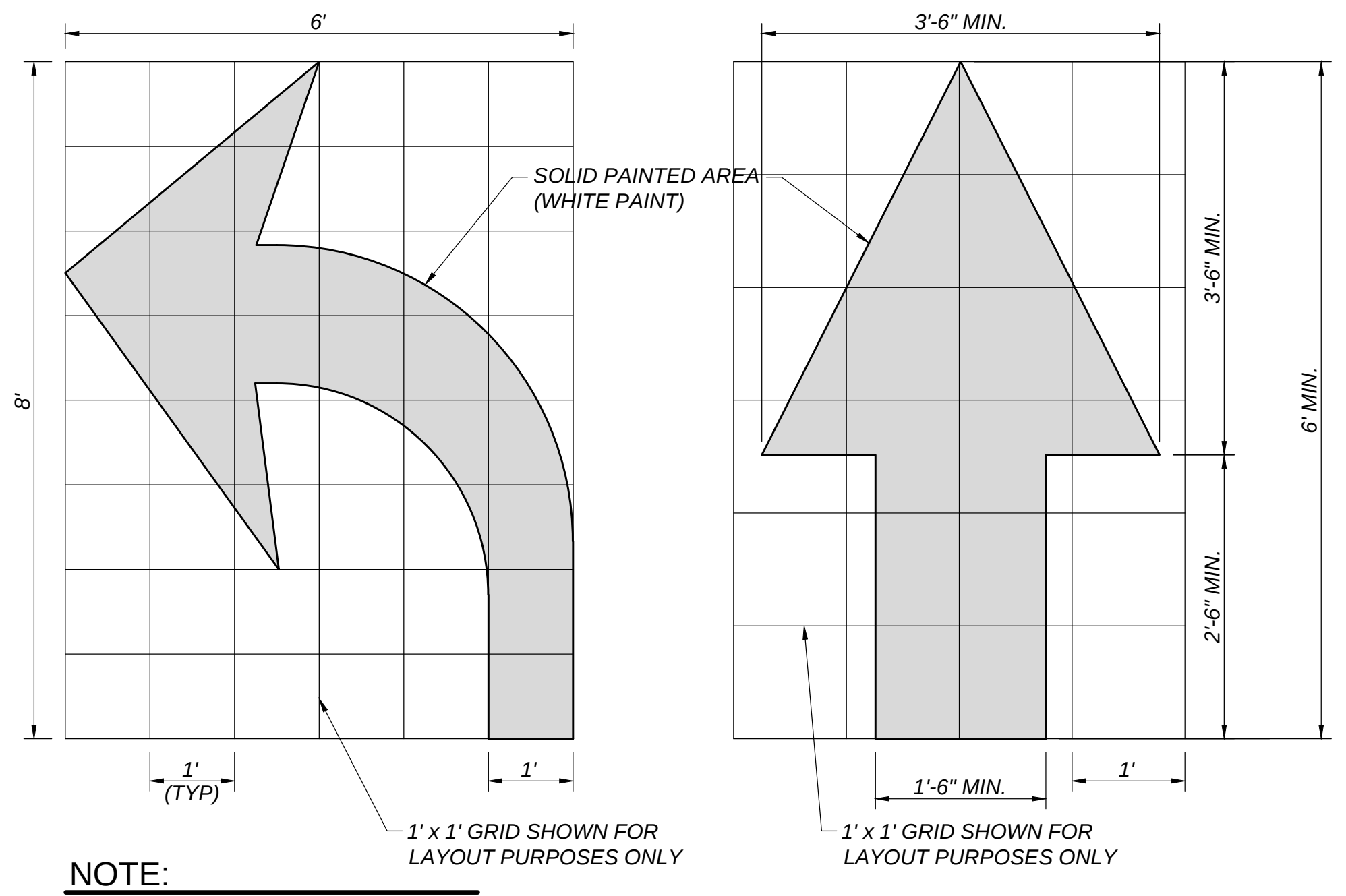
NOTES:

1. THE DETECTABLE WARNING SURFACE SHALL BE YELLOW AND APPROXIMATE FS 33538 OF SAE AMSSTD-595A.
2. WHERE DETECTABLE WARNING SURFACE DOES NOT PROVIDE A 70% CONTRAST WITH ADJACENT WALKING SURFACES, A 1-INCH WIDE MINIMUM VISUALLY CONTRASTING SURFACE SHALL SEPARATE THE DETECTABLE WARNING FROM THE ADJACENT SURFACE.
3. THE DOMES SHALL BE MANUFACTURED BY ARMOR TILE INC. OR APPROVED EQUAL.
4. ONLY APPROVED DSA/AC DETECTABLE WARNING PRODUCTS AND DIRECTIONAL SURFACES SHALL BE INSTALLED AS PROVIDED IN THE CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, PART 1, CHAPTER 5, ARTICLES 2, 3 AND 4.



C SD/X102 DETECTABLE WARNING SURFACE

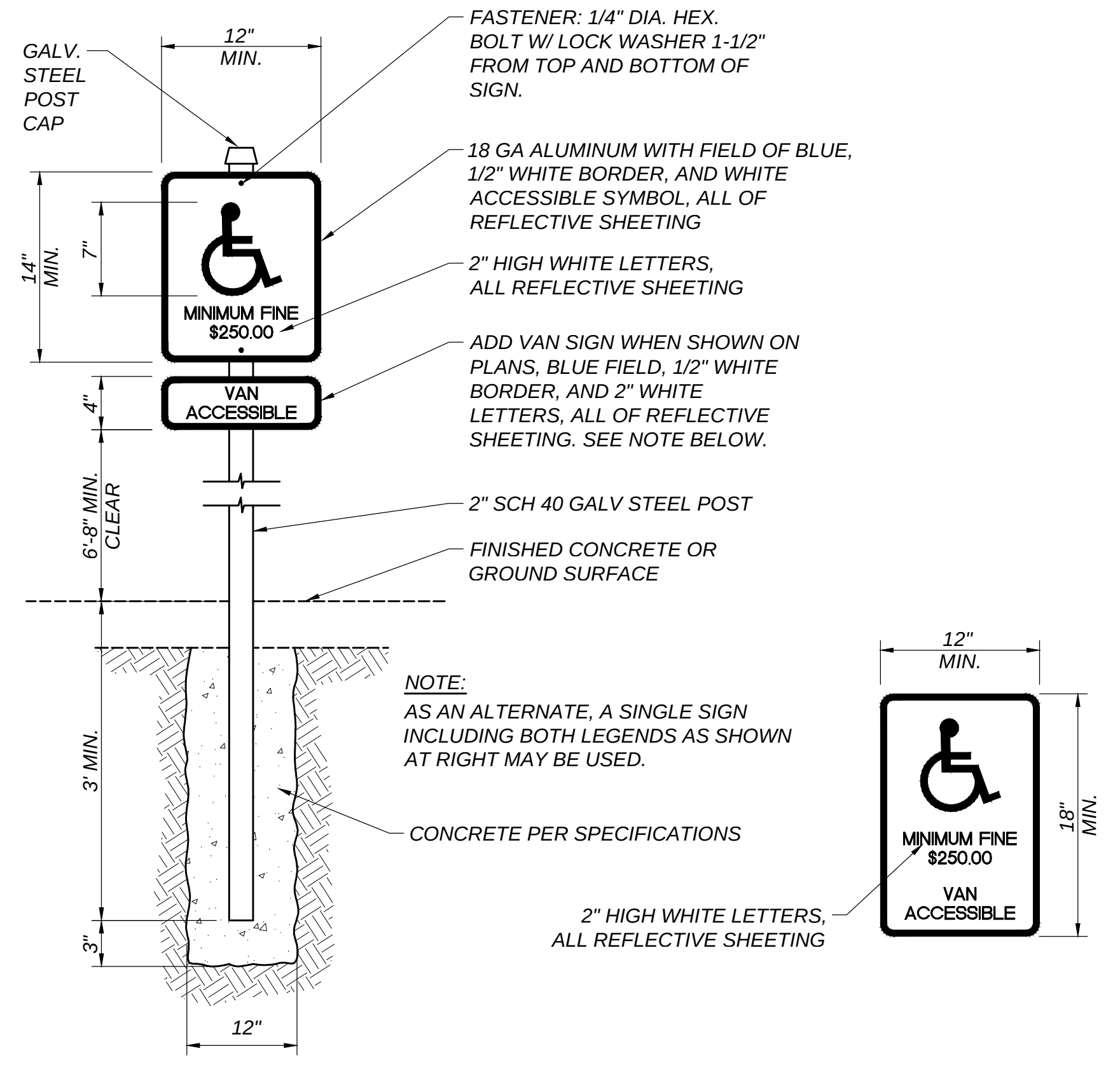
NOT TO SCALE


6'
8'
SOLID PAINTED AREA (WHITE PAINT)
1' (TYP)
1'
1' x 1' GRID SHOWN FOR LAYOUT PURPOSES ONLY
3'-6" MIN.
3'-6" MIN.
6' MIN.
2'-6" MIN.
1'-6" MIN.
1'
1' x 1' GRID SHOWN FOR LAYOUT PURPOSES ONLY

NOTE:
CALTRANS TYPE IV(L) SHOWN.
USE MIRROR IMAGE FOR RIGHT TURN.

D SD/X102 DIRECTIONAL ARROWS

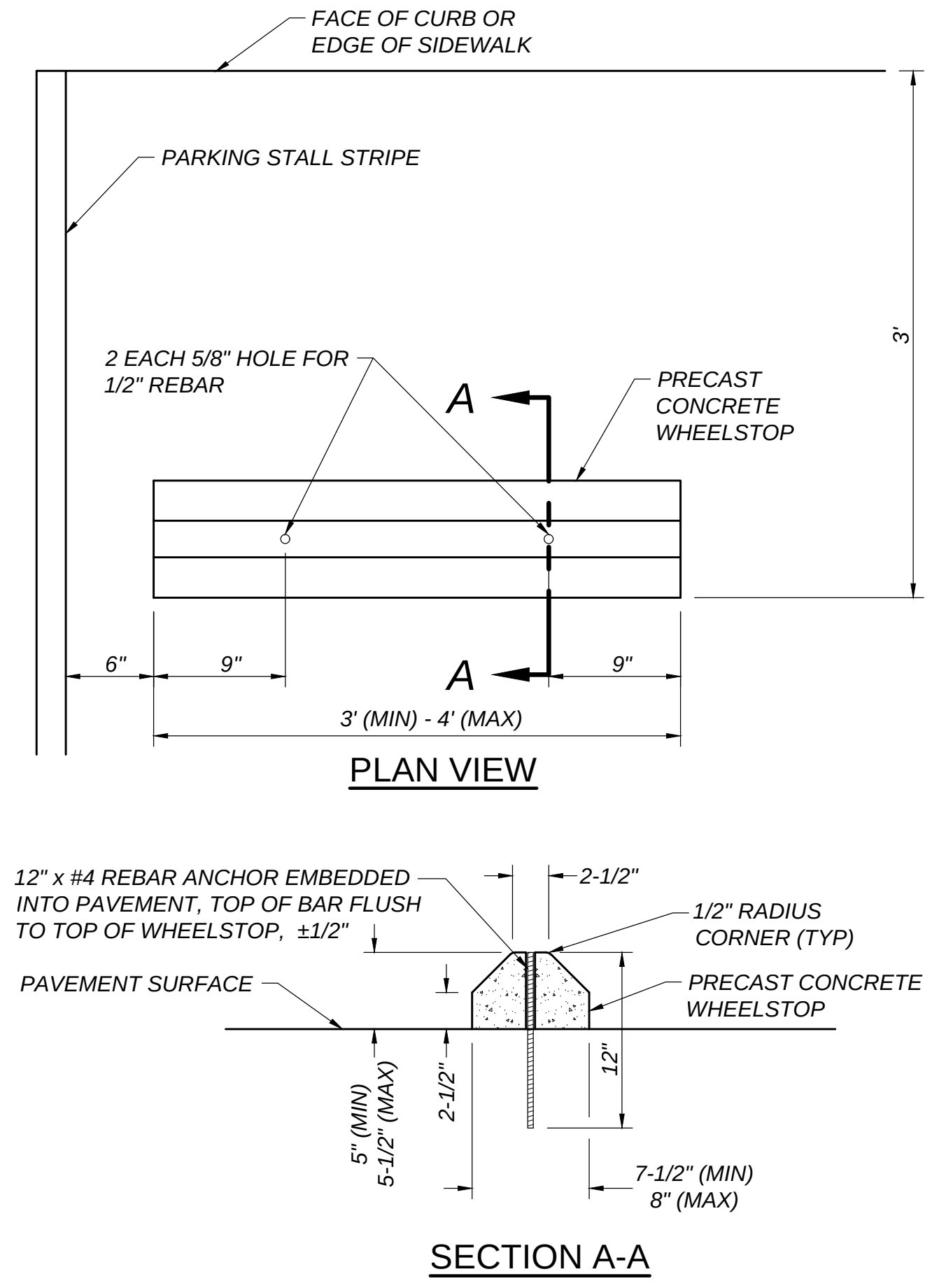
NOT TO SCALE


GALV. STEEL POST CAP
12" MIN.
FASTENER: 1/4" DIA. HEX. BOLT W/ LOCK WASHER 1-1/2" FROM TOP AND BOTTOM OF SIGN.
18 GA ALUMINUM WITH FIELD OF BLUE, 1/2" WHITE BORDER, AND WHITE ACCESSIBLE SYMBOL, ALL OF REFLECTIVE SHEETING
2" HIGH WHITE LETTERS, ALL REFLECTIVE SHEETING
ADD VAN SIGN WHEN SHOWN ON PLANS, BLUE FIELD, 1/2" WHITE BORDER, AND 2" WHITE LETTERS, ALL OF REFLECTIVE SHEETING. SEE NOTE BELOW.
14" MIN.
7"
MINIMUM FINE $250.00
VAN ACCESSIBLE
4"
6'-8" MIN. CLEAR
2" SCH 40 GALV STEEL POST
FINISHED CONCRETE OR GROUND SURFACE
3' MIN.
3"
12"
CONCRETE PER SPECIFICATIONS
12" MIN.
18" MIN.
MINIMUM FINE $250.00
VAN ACCESSIBLE
2" HIGH WHITE LETTERS, ALL REFLECTIVE SHEETING

NOTE:
AS AN ALTERNATE, A SINGLE SIGN INCLUDING BOTH LEGENDS AS SHOWN AT RIGHT MAY BE USED.

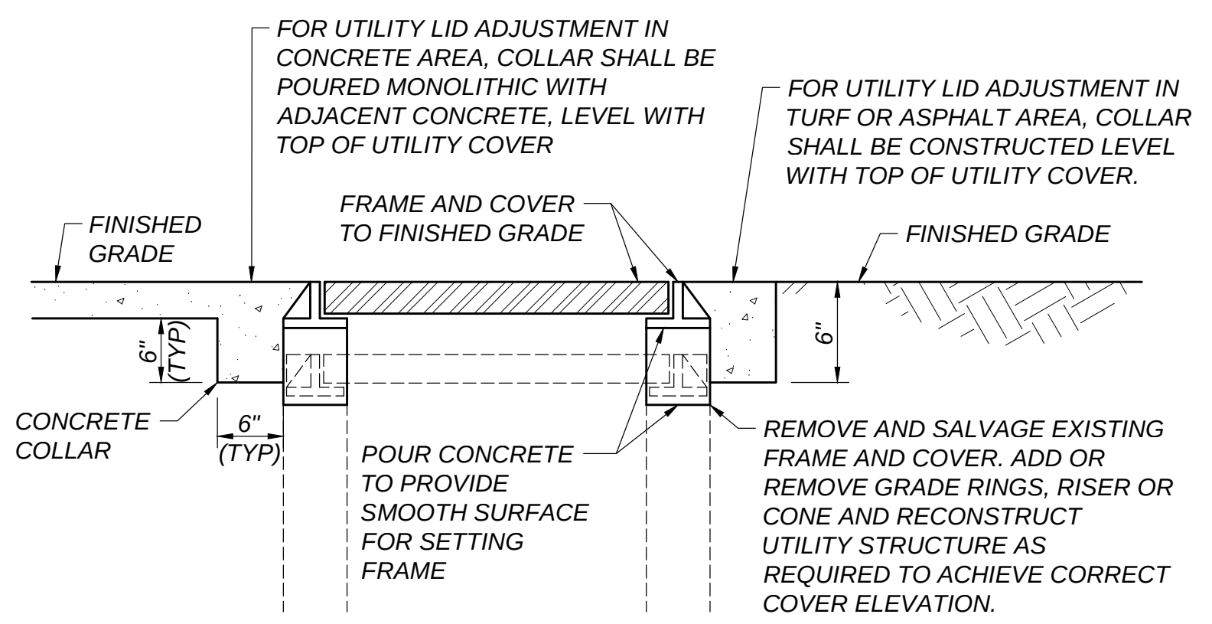
E SD/X102 ACCESSIBLE PARKING STALL SIGN

NOT TO SCALE


FACE OF CURB OR EDGE OF SIDEWALK
PARKING STALL STRIPE
3'
2 EACH 5/8" HOLE FOR 1/2" REBAR
A
A
PRECAST CONCRETE WHEELSTOP
6"
9"
9"
3' (MIN) - 4' (MAX)
PLAN VIEW
12" x #4 REBAR ANCHOR EMBEDDED INTO PAVEMENT, TOP OF BAR FLUSH TO TOP OF WHEELSTOP, ±1/2"
2-1/2"
1/2" RADIUS CORNER (TYP)
PAVEMENT SURFACE
PRECAST CONCRETE WHEELSTOP
5" (MIN) 5-1/2" (MAX)
2-1/2"
12"
7-1/2" (MIN) 8" (MAX)
SECTION A-A

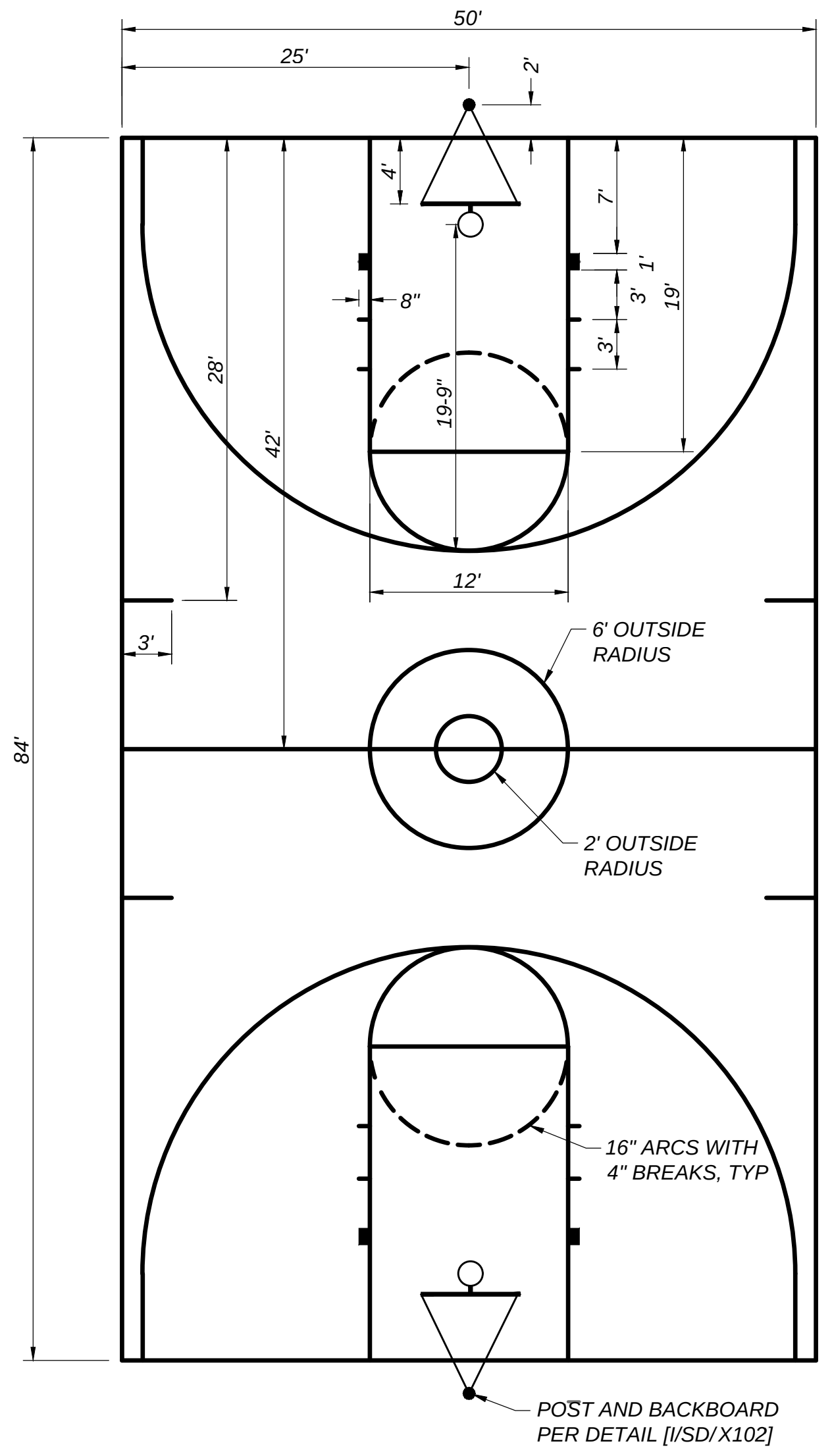
F SD/X102 TYPICAL WHEELSTOP

NOT TO SCALE


FOR UTILITY LID ADJUSTMENT IN CONCRETE AREA, COLLAR SHALL BE POURED MONOLITHIC WITH ADJACENT CONCRETE, LEVEL WITH TOP OF UTILITY COVER
FOR UTILITY LID ADJUSTMENT IN TURF OR ASPHALT AREA, COLLAR SHALL BE CONSTRUCTED LEVEL WITH TOP OF UTILITY COVER.
FINISHED GRADE
FRAME AND COVER TO FINISHED GRADE
FINISHED GRADE
6" (TYP)
6"
CONCRETE COLLAR
6" (TYP)
POUR CONCRETE TO PROVIDE SMOOTH SURFACE FOR SETTING FRAME
REMOVE AND SALVAGE EXISTING FRAME AND COVER. ADD OR REMOVE GRADE RINGS, RISER OR CONE AND RECONSTRUCT UTILITY STRUCTURE AS REQUIRED TO ACHIEVE CORRECT COVER ELEVATION.

G SD/X102 ADJUST UTILITY LID

NOT TO SCALE

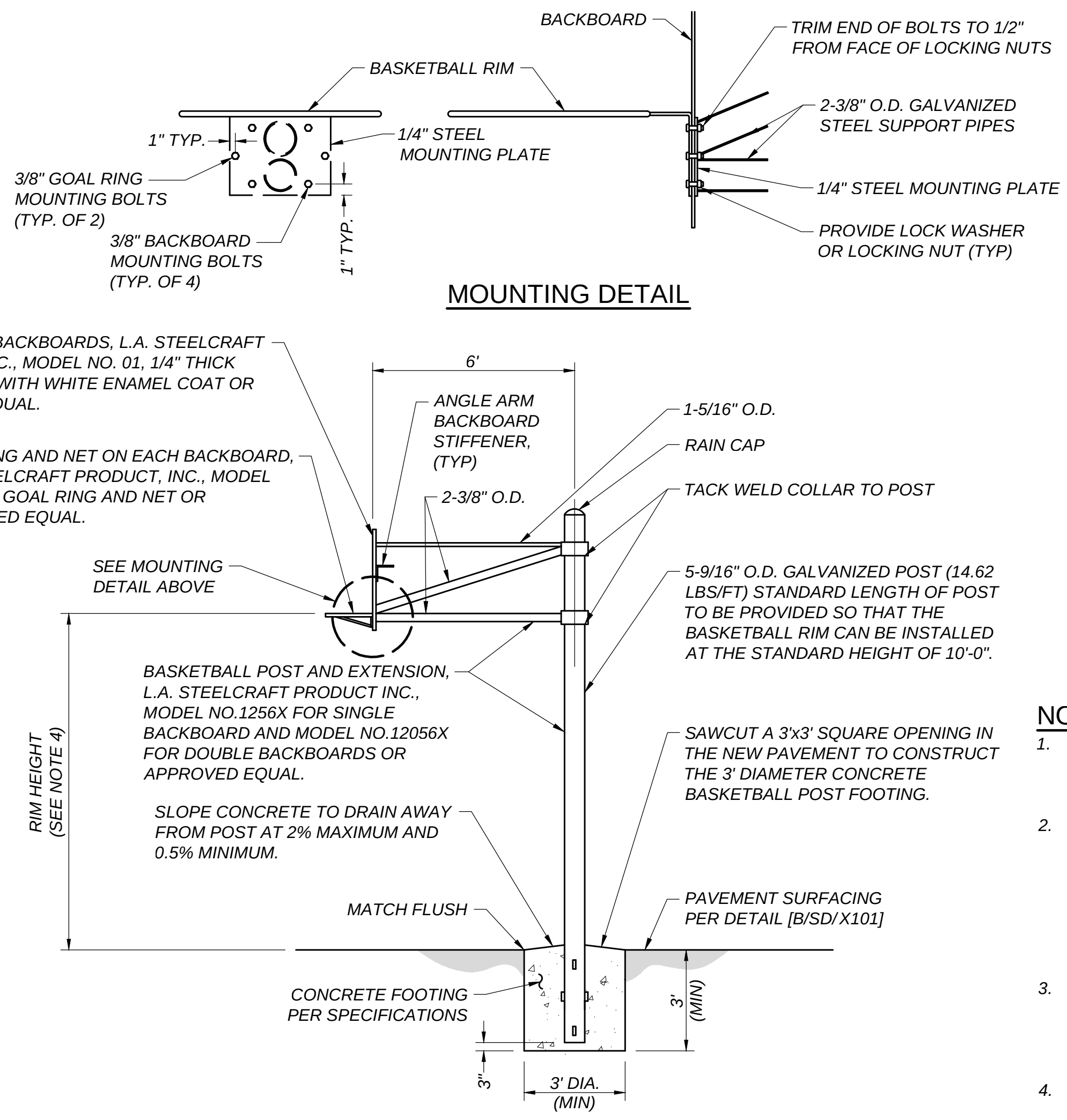


PLAYCOURT NOTES:

1. ALL COURT LINES ARE TO BE 2" IN WIDTH.
2. BASKETBALL COURTS SHALL BE STRIPED WHITE, VOLLEYBALL COURTS SHALL BE STRIPED YELLOW.
3. ALL GAME COURT DIMENSIONS ARE TO THE INSIDE OF COURT LINES, WITH THE EXCEPTION OF THE CENTERLINES.
4. CONTRACTOR IS RESPONSIBLE FOR GAME COURT LAYOUTS AND LOCATING POSTS, AS NEEDED.

H SD/X102 BASKETBALL COURT

NOT TO SCALE

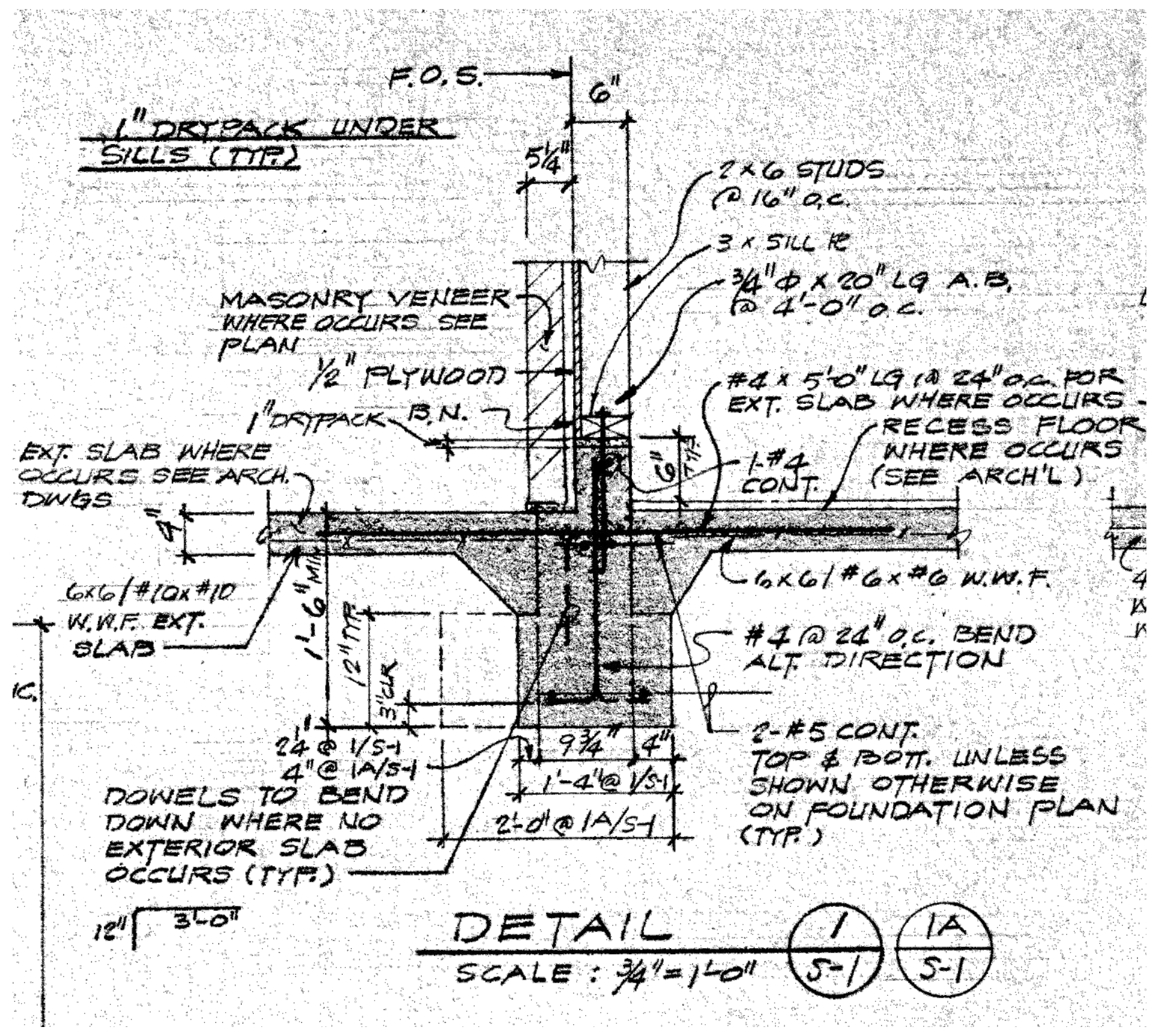

BACKBOARD
BASKETBALL RIM
TRIM END OF BOLTS TO 1/2" FROM FACE OF LOCKING NUTS
2-3/8" O.D. GALVANIZED STEEL SUPPORT PIPES
1" TYP.
1/4" STEEL MOUNTING PLATE
3/8" GOAL RING MOUNTING BOLTS (TYP. OF 2)
3/8" BACKBOARD MOUNTING BOLTS (TYP. OF 4)
1" TYP.
1/4" STEEL MOUNTING PLATE
PROVIDE LOCK WASHER OR LOCKING NUT (TYP)
MOUNTING DETAIL
FAN SHAPED BACKBOARDS, L.A. STEELCRAFT PRODUCTS INC., MODEL NO. 01, 1/4" THICK STEEL PLATE WITH WHITE ENAMEL COAT OR APPROVED EQUAL.
6'
ANGLE ARM BACKBOARD STIFFENER, (TYP)
1-5/16" O.D.
RAIN CAP
GOAL RING AND NET ON EACH BACKBOARD, L.A. STEELCRAFT PRODUCT, INC., MODEL NO. SD-4 GOAL RING AND NET OR APPROVED EQUAL.
2-3/8" O.D.
TACK WELD COLLAR TO POST
SEE MOUNTING DETAIL ABOVE
5-9/16" O.D. GALVANIZED POST (14.62 LBS/FT) STANDARD LENGTH OF POST TO BE PROVIDED SO THAT THE BASKETBALL RIM CAN BE INSTALLED AT THE STANDARD HEIGHT OF 10'-0".
BASKETBALL POST AND EXTENSION, L.A. STEELCRAFT PRODUCT INC., MODEL NO.1256X FOR SINGLE BACKBOARD AND MODEL NO.12056X FOR DOUBLE BACKBOARDS OR APPROVED EQUAL.
RIM HEIGHT (SEE NOTE 4)
SAWCUT A 3'x3' SQUARE OPENING IN THE NEW PAVEMENT TO CONSTRUCT THE 3' DIAMETER CONCRETE BASKETBALL POST FOOTING.
SLOPE CONCRETE TO DRAIN AWAY FROM POST AT 2% MAXIMUM AND 0.5% MINIMUM.
MATCH FLUSH
PAVEMENT SURFACING PER DETAIL [B/SD/X101]
CONCRETE FOOTING PER SPECIFICATIONS
3' (MIN)
3"
3' DIA. (MIN)

NOTES:

1. ALL MOUNTING BOLTS AND NUTS SHALL HAVE THE BOLTS TRIMMED TO WITHIN A MAXIMUM OF 1/2" BEYOND FACE OF NUT WITH BOLT END BURRED.
2. MANUFACTURER'S STANDARD INSTALLATION SYSTEM SHALL BE MODIFIED AS REQUIRED TO ALLOW FOR THE INSTALLATION OF THE BACKBOARD AND SUPPORT SUCH THAT THE RIM CAN BE REMOVED AND REPLACED WITHOUT AFFECTING THE STRUCTURAL SUPPORT OF THE BACKBOARD.
3. ALL AREAS AFFECTED BY WELDING OR TRIMMED ENDS OF BOLTS SHALL BE PAINTED PER "SECTION 80 - CHAIN LINK FENCING" IN THE TECHNICAL SPECIFICATION PORTION OF THE SPECIFICATIONS.
4. SET RIM HEIGHT TO: 9' FOR ELEMENTARY SCHOOL; 10' FOR INTERMEDIATE AND HIGH SCHOOL

I SD/X102 BASKETBALL SINGLE BACKBOARDS

NOT TO SCALE


F.O.S.
6"
1" DRYPACK UNDER SILLS (TYP.)
5¼"
2x6 STUDS @ 16" o.c.
3 x SILL PL
¾"Φ x 20" LG A.B. @ 4'-0" o.c.
MASONRY VENEER WHERE OCCURS SEE PLAN
½" PLYWOOD
1" DRYPACK
B.N.
#4 x 5'-0" LG @ 24" o.c. FOR EXT. SLAB WHERE OCCURS
RECESS FLOOR WHERE OCCURS (SEE ARCH'L)
EXT. SLAB WHERE OCCURS SEE ARCH. DWGS
6" TYP.
1-#4 CONT.
4"
6x6/#6x#6 W.W.F.
6x6/#10x#10 W.W.F. EXT. SLAB
1'-6" MIN.
12" TYP.
#4 @ 24" o.c. BEND ALT. DIRECTION
3" CLR
2-#5 CONT. TOP & BOTT. UNLESS SHOWN OTHERWISE ON FOUNDATION PLAN (TYP.)
24" @ 1/S-1
4" @ 1A/S-1
9¾"
4"
1'-4" @ 1/S-1
2'-0" @ 1A/S-1
DOWELS TO BEND DOWN WHERE NO EXTERIOR SLAB OCCURS (TYP.)
12"
3'-0"
DETAIL 1/S-1 1A/S-1
SCALE: ¾"=1'-0"

J SD/X102 EXISTING EXTERIOR SLAB AT BUILDING

NOT TO SCALE

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

General Notes

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Community Day School Modernization
Merced City School District
Merced, CA

Project

SITE DEVELOPMENT
DETAILS

Drawing

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ARCHITECTURE
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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

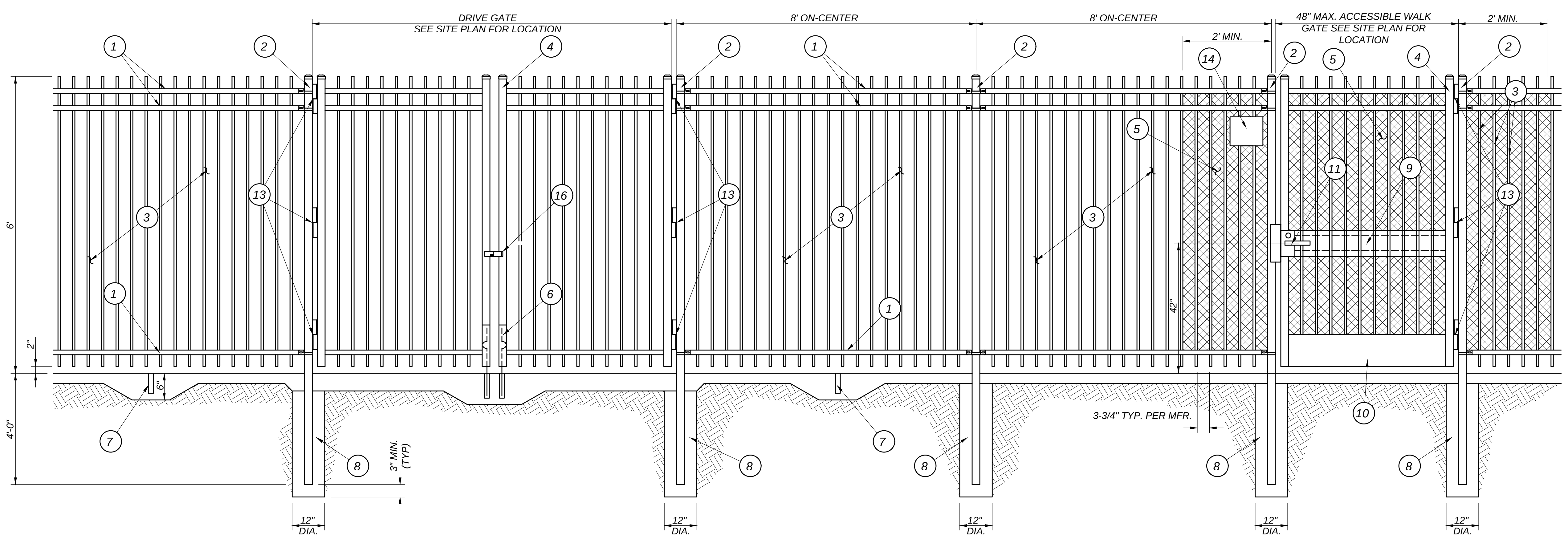
Architect

No.	Revision/Submission	Date

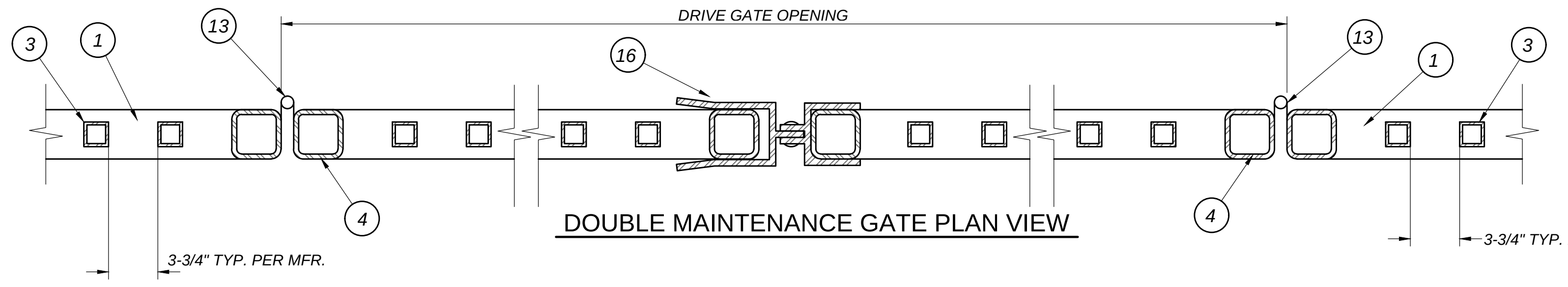
Revision

	Designed By: DG	
Scale: As Indicated	Drawn By: SD	SD/X102
Project Number: 2533	Checked By: LRB	
Date: 2/9/2026	Reviewed By: JDB	Sheet: ________ of: ________

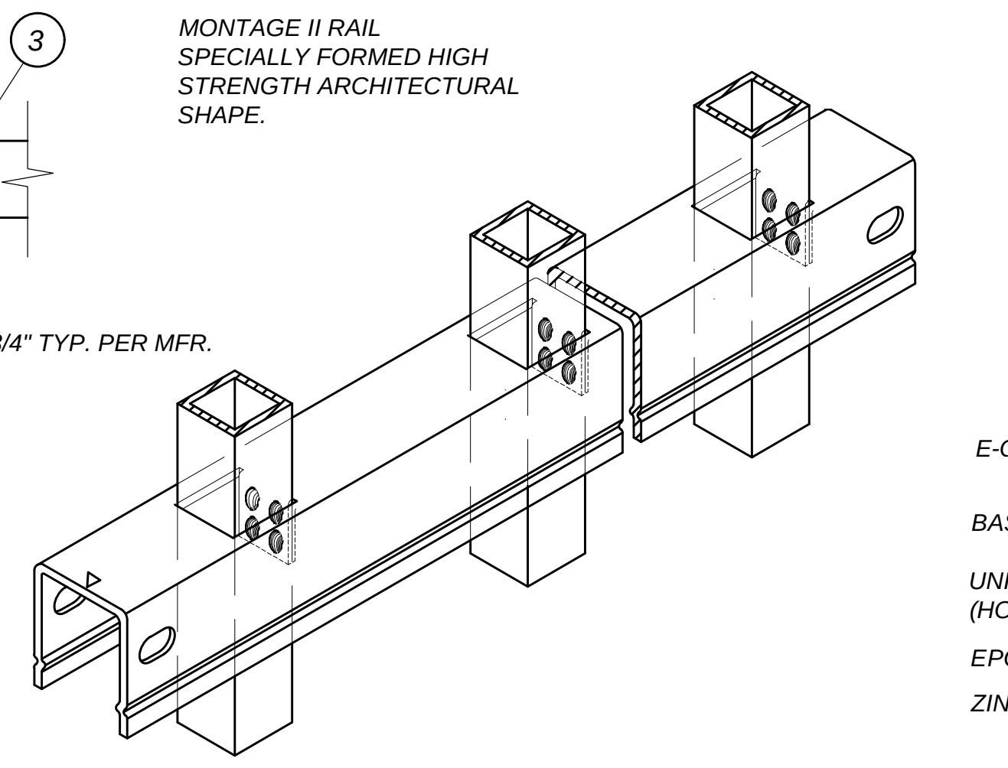
Drawing: P:\225\225-0385\Site\ProductionDrawings\225385_dt01.dwg; X102 - BCF.ctb
Plot by: dgaona Feb 05, 2026 - 4:02pm

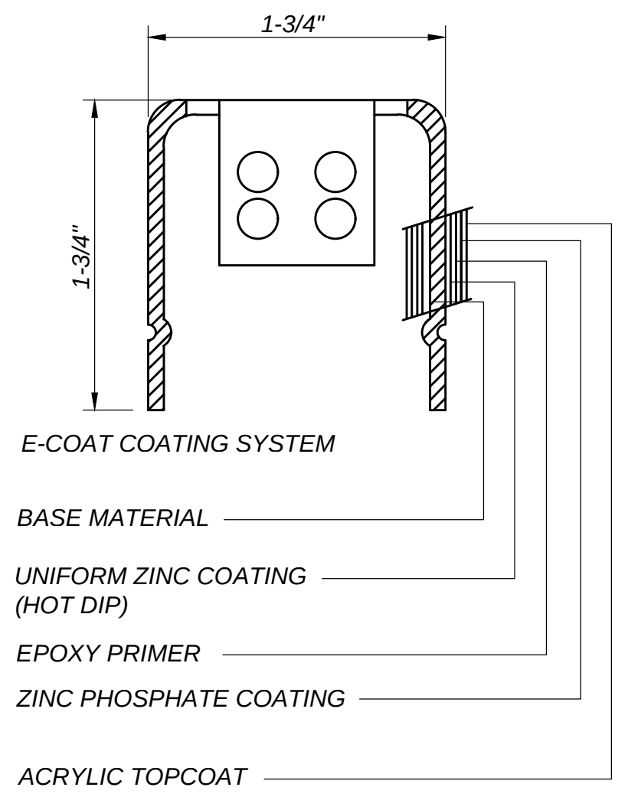


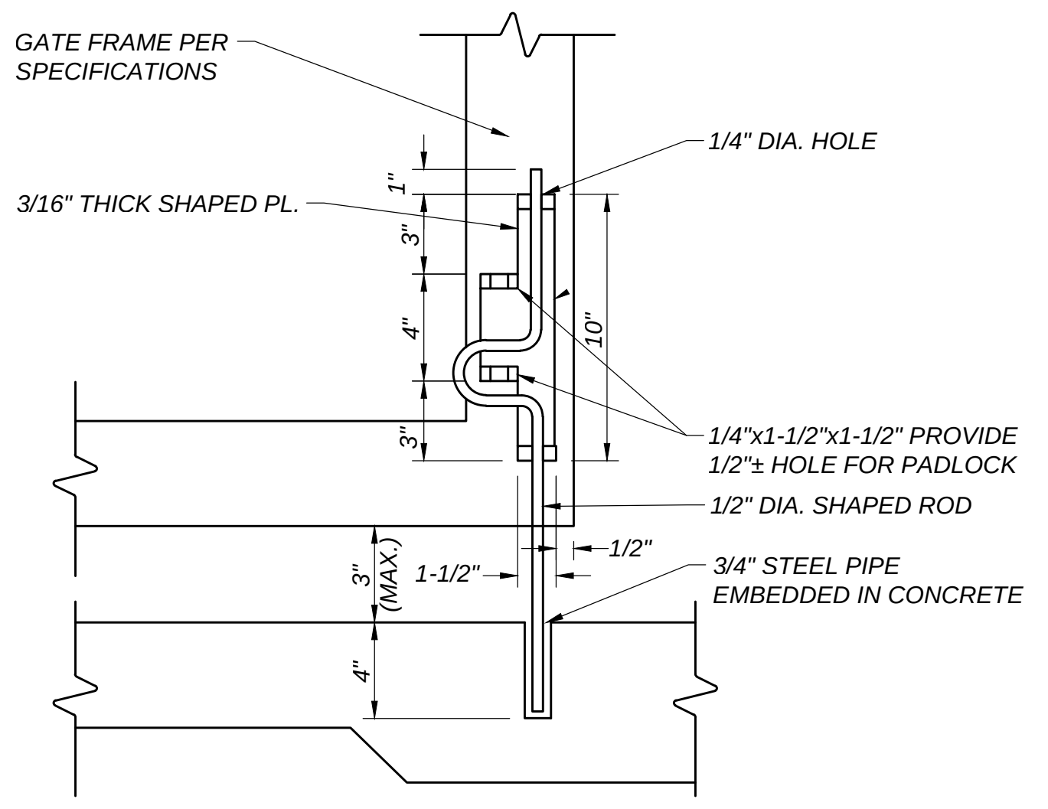
GATES AND FENCE ELEVATION

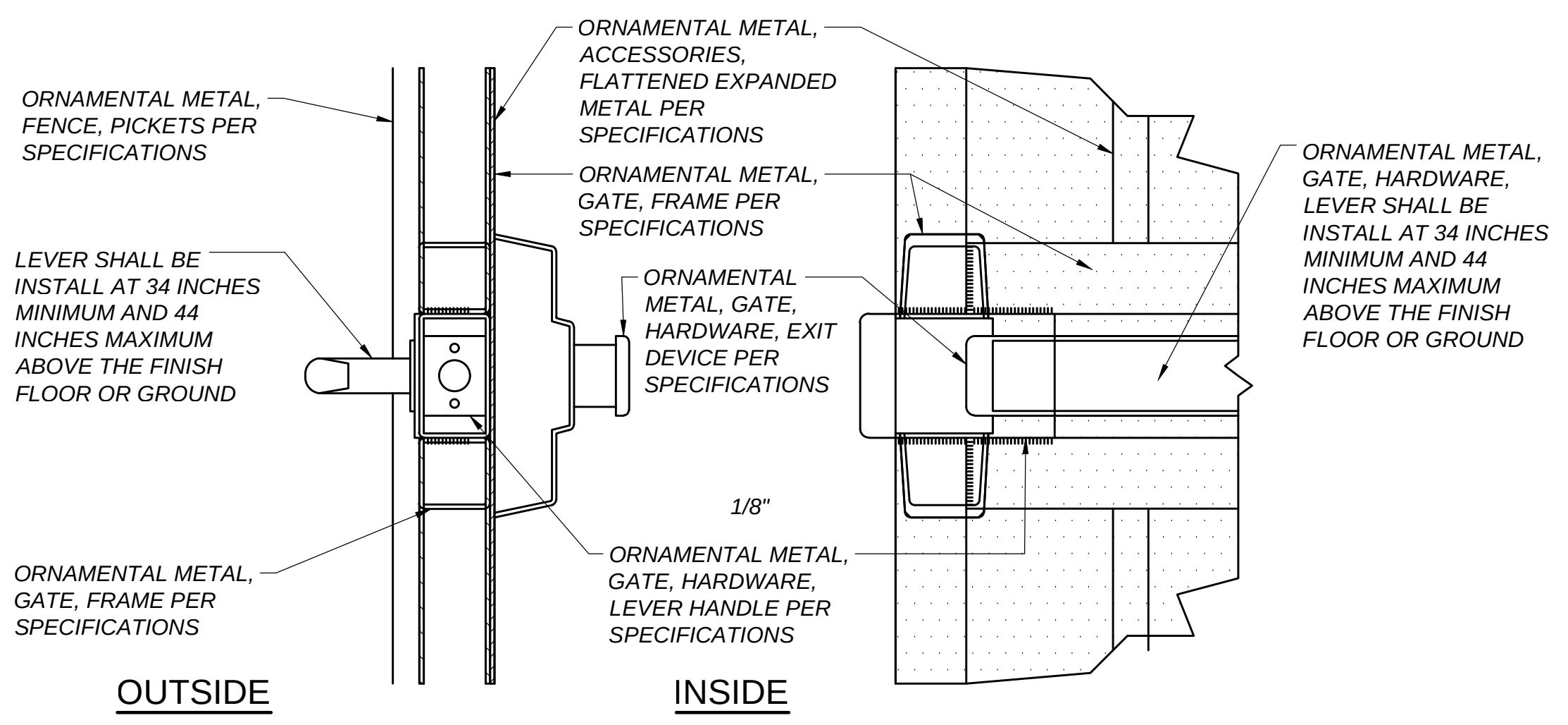


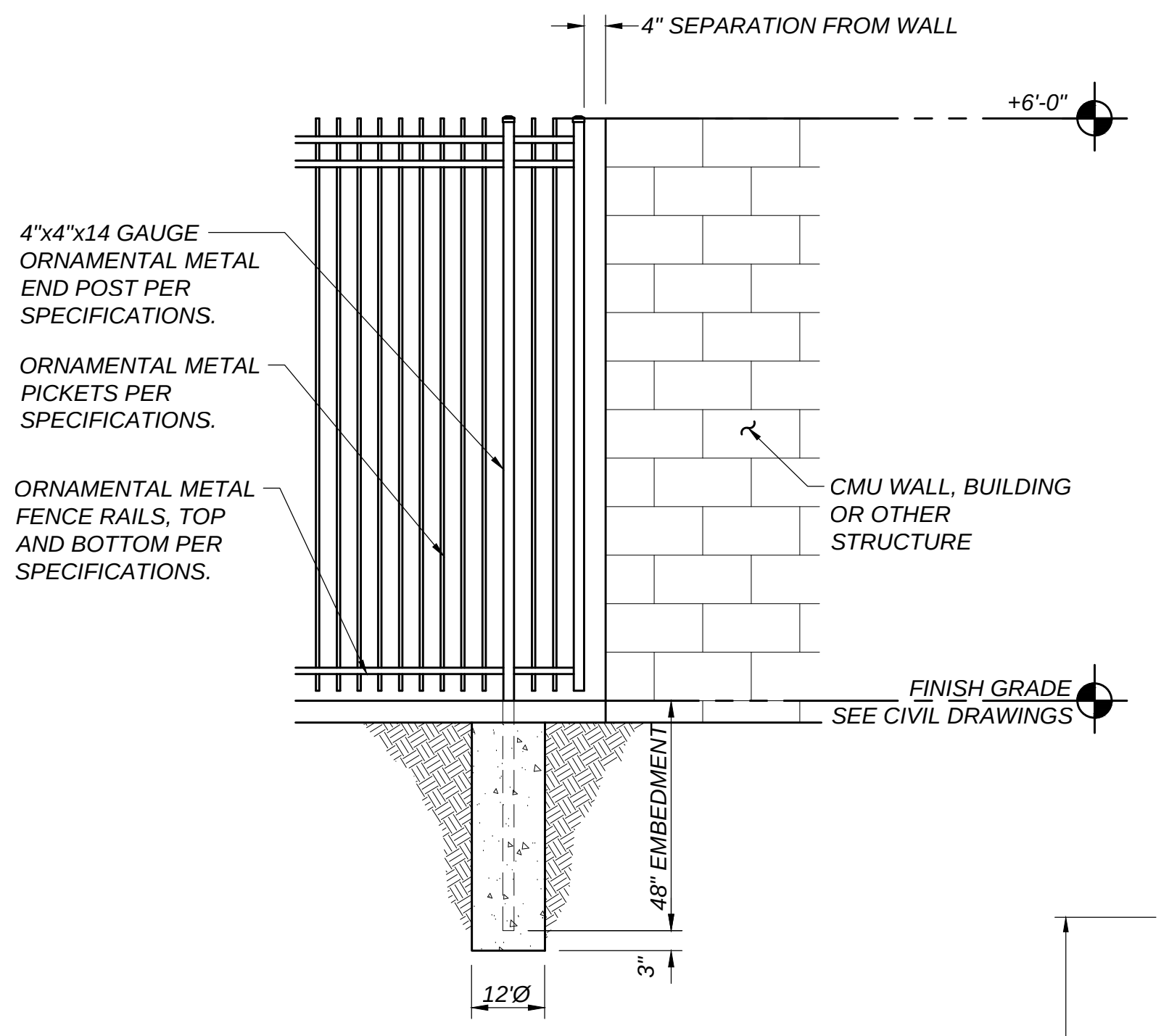
DOUBLE MAINTENANCE GATE PLAN VIEW






GATE FRAME PER SPECIFICATIONS
3/16" THICK SHAPED PL.
1/4" DIA. HOLE
1/4"x1-1/2"x1-1/2" PROVIDE 1/2"± HOLE FOR PADLOCK
1/2" DIA. SHAPED ROD
3/4" STEEL PIPE EMBEDDED IN CONCRETE
1"
3"
4"
3"
10"
3" (MAX.)
4"
1-1/2"
1/2"


ORNAMENTAL METAL, FENCE, PICKETS PER SPECIFICATIONS
LEVER SHALL BE INSTALL AT 34 INCHES MINIMUM AND 44 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND
ORNAMENTAL METAL, GATE, FRAME PER SPECIFICATIONS
ORNAMENTAL METAL, ACCESSORIES, FLATTENED EXPANDED METAL PER SPECIFICATIONS
ORNAMENTAL METAL, GATE, FRAME PER SPECIFICATIONS
ORNAMENTAL METAL, GATE, HARDWARE, EXIT DEVICE PER SPECIFICATIONS
1/8"
ORNAMENTAL METAL, GATE, HARDWARE, LEVER HANDLE PER SPECIFICATIONS
ORNAMENTAL METAL, GATE, HARDWARE, LEVER SHALL BE INSTALL AT 34 INCHES MINIMUM AND 44 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND
OUTSIDE
INSIDE


4" SEPARATION FROM WALL
+6'-0"
4"x4"x14 GAUGE ORNAMENTAL METAL END POST PER SPECIFICATIONS.
ORNAMENTAL METAL PICKETS PER SPECIFICATIONS.
ORNAMENTAL METAL FENCE RAILS, TOP AND BOTTOM PER SPECIFICATIONS.
CMU WALL, BUILDING OR OTHER STRUCTURE
FINISH GRADE
SEE CIVIL DRAWINGS
48" EMBEDMENT
3"
12'Ø

DECORATIVE METAL FENCE AND GATE LEGEND:

① 1-3/4"W x 1-3/4"H x 12GA. HORIZONTAL RAILING FENCE PER THE MANUFACTURER

② 12GA. TUBE STEEL POST PER MANUFACTURER; LINE POSTS AND GATE POSTS SIZED PER THE MANUFACTURER

③ 1" SQ. x 14GA. STEEL PICKETS PER MANUFACTURER

④ METAL GATE FRAME PER MANUFACTURER

⑤ FLATTENED EXPANDED METAL 1/2"X16 GA.

⑥ DROP ROD

⑦ INSTALL GATE HOLDBACK FOR ALL GATES.

⑧ CONCRETE FOOTING, TYPICAL.

⑨ 12" HIGH, CENTER ON LATCH, 1/8" THICK STEEL PLATES WELDED ON BOTH SIDES, THE FULL WIDTH OF THE GATE. PROVIDE A WELDED CAP TOP AND BOTTOM TO CLOSE OFF THE CAVITY. THE PLATE AND WELDS SHALL BE POWDER COATED TO MATCH FENCE.

⑩ 10" HIGH, 1/8" THICK STEEL PLATES WELDED ON BOTH SIDES OF THE GATE AT BOTTOM, FULL WIDTH OF THE GATE. PROVIDE A WELDED CAP TOP AND BOTTOM TO CLOSE OFF THE CAVITY. THE KICK PLATE AND WELDS SHALL BE POWDER COATED TO MATCH FENCE.

⑪ ALL PEDESTRIAN WALK GATES SHALL HAVE ADA/CBC COMPLIANT ACCESSIBLE HARDWARE WHEN LOCATED WITHIN ACCESSIBLE PATH OF TRAVEL. GATE LATCH SHALL REQUIRE A MAXIMUM OF 5 LBS OF PRESSURE TO OPERATE. HARDWARE PER THE SPECIFICATIONS

⑫ 1" x 1" x 1/8" METAL ANGLE WELD WITH METAL GATE FRAME

⑬ HINGES PER THE SPECIFICATIONS

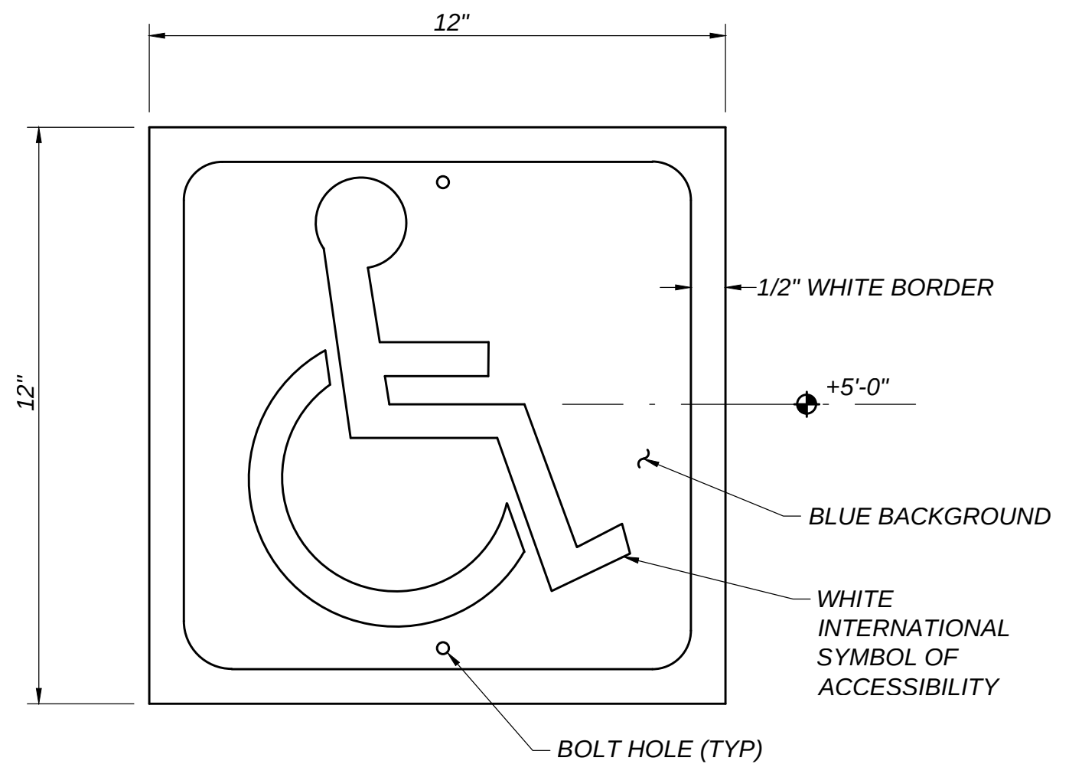
⑭ ACCESSIBLE GATE SIGN PER DETAIL [B/SD/X103]

⑮ STRIKE PLATE

⑯ ALL MAINTENANCE GATES SHALL HAVE LOCKABLE GATE LATCH

FENCE AND GATE NOTES:

1. FENCE TO BE AMERISTAR MONTAGE II STYLE FENCING OR APPROVED EQUAL. CONTRACTOR TO COORDINATE PLACEMENT OF STEEL POSTS FOR FENCING WHICH OCCURS ADJACENT TO BUILDINGS, COLUMNS OR BLOCK WALLS PLACING CONCRETE. VERIFY CLEAR OPENINGS IN FIELD PRIOR TO CONSTRUCTION.
2. FENCE PANEL SYSTEM SHALL BE INDUSTRIAL GRADE.
3. MOWSTRIP THICKNESS AT GATE OPENINGS TO BE 6" THICK.
4. CONTRACTOR TO PROVIDE AND INSTALL GATE HOLDBACK FOR EACH GATE. HOLDBACK TO BE INSTALLED IN FENCE MOWSTRIP UNLESS OTHERWISE NOTED.
5. ALL ACCESSIBLE GATES SHALL HAVE:
   a. LEVER TYPE LATCH (HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL COMPLY ADA. OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34 INCHES MINIMUM AND 44 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.
   b. SWINGING DOOR AND GATE SURFACES WITHIN 10 INCHES OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE SURFACES SHALL BE WITHIN 1/16 INCH OF THE SAME PLANE AS THE OTHER AND BE FREE OF SHARP OR ABRASIVE EDGES. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED.

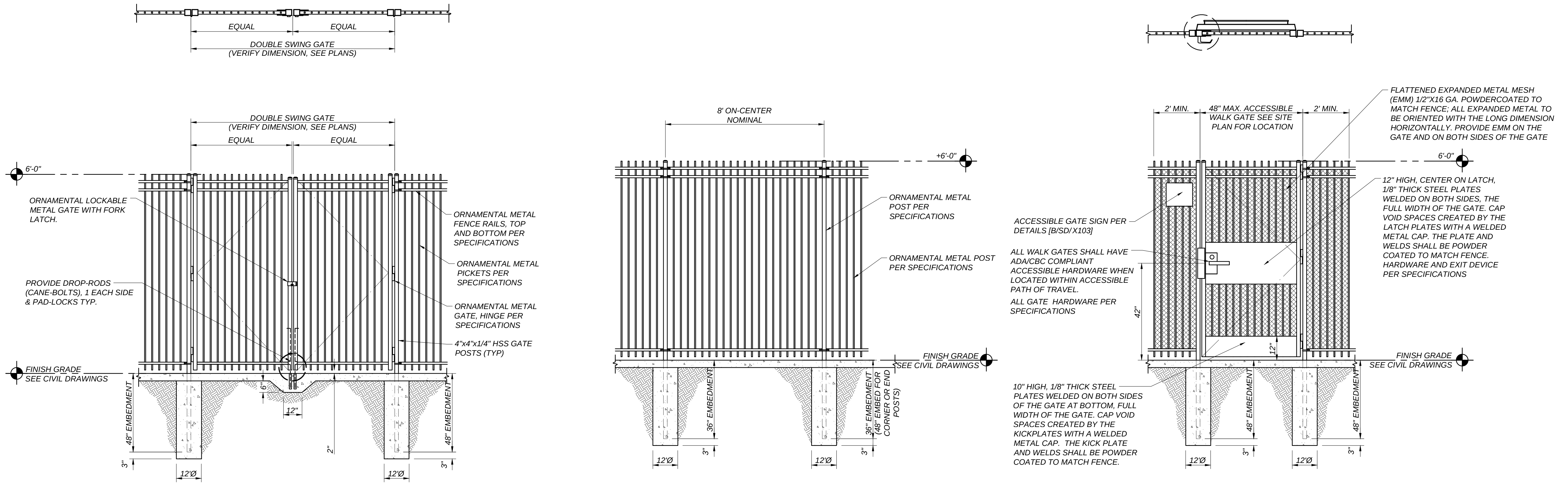


NOTES:

1. SIGN BY "STOP SIGNS AND MORE", MODEL SKU:PAR-1124 WITH WEATHER AND GRAFFITI PROTECTION OR APPROVED EQUAL.
2. BACKING PLATE 12"x12"x16 GAUGE METAL PLATE, SANDWICH CHAIN LINK FABRIC BETWEEN SIGN AND BACKING PLATE. FASTEN TOGETHER WITH TAMPER RESISTANT THRU BOLTS SIMILAR TO DETAIL [C/SD/X103].

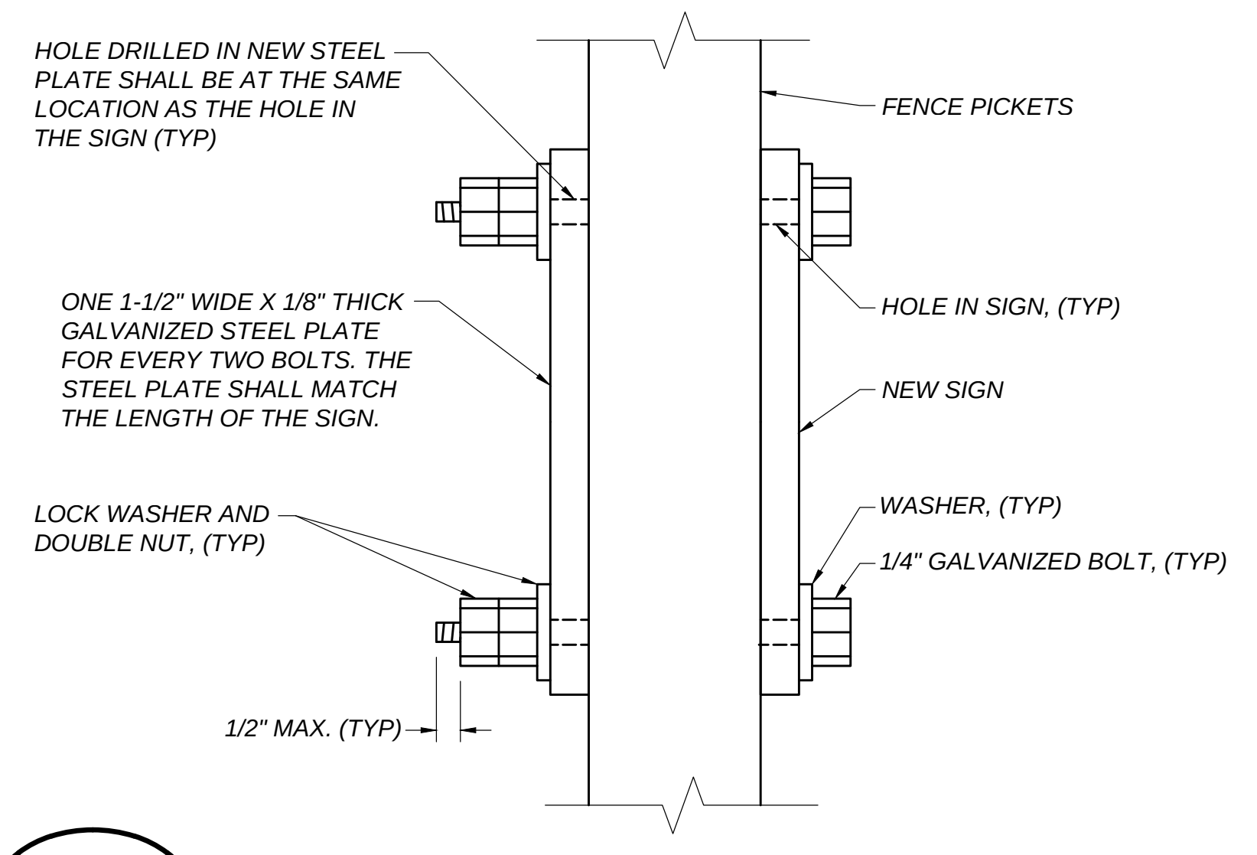
B SD/X103 ENTRY ACCESSIBILITY SIGN

NOT TO SCALE


EQUAL
EQUAL
DOUBLE SWING GATE
(VERIFY DIMENSION, SEE PLANS)
DOUBLE SWING GATE
(VERIFY DIMENSION, SEE PLANS)
EQUAL
EQUAL
6'-0"
ORNAMENTAL LOCKABLE METAL GATE WITH FORK LATCH.
PROVIDE DROP-RODS (CANE-BOLTS), 1 EACH SIDE & PAD-LOCKS TYP.
ORNAMENTAL METAL FENCE RAILS, TOP AND BOTTOM PER SPECIFICATIONS
ORNAMENTAL METAL PICKETS PER SPECIFICATIONS
ORNAMENTAL METAL GATE, HINGE PER SPECIFICATIONS
4"x4"x1/4" HSS GATE POSTS (TYP)
FINISH GRADE
SEE CIVIL DRAWINGS
48" EMBEDMENT
6"
12"
2"
3"
12'Ø
8' ON-CENTER
NOMINAL
+6'-0"
ORNAMENTAL METAL POST PER SPECIFICATIONS
ORNAMENTAL METAL POST PER SPECIFICATIONS
FINISH GRADE
SEE CIVIL DRAWINGS
36" EMBEDMENT
36" EMBEDMENT (48" EMBEDMENT FOR CORNER OR END POSTS)
2' MIN.
48" MAX. ACCESSIBLE WALK GATE SEE SITE PLAN FOR LOCATION
2' MIN.
6'-0"
FLATTENED EXPANDED METAL MESH (EMM) 1/2"X16 GA. POWDERCOATED TO MATCH FENCE; ALL EXPANDED METAL TO BE ORIENTED WITH THE LONG DIMENSION HORIZONTALLY. PROVIDE EMM ON THE GATE AND ON BOTH SIDES OF THE GATE
ACCESSIBLE GATE SIGN PER DETAILS [B/SD/X103]
ALL WALK GATES SHALL HAVE ADA/CBC COMPLIANT ACCESSIBLE HARDWARE WHEN LOCATED WITHIN ACCESSIBLE PATH OF TRAVEL.
ALL GATE HARDWARE PER SPECIFICATIONS
12" HIGH, CENTER ON LATCH, 1/8" THICK STEEL PLATES WELDED ON BOTH SIDES, THE FULL WIDTH OF THE GATE. CAP VOID SPACES CREATED BY THE LATCH PLATES WITH A WELDED METAL CAP. THE PLATE AND WELDS SHALL BE POWDER COATED TO MATCH FENCE. HARDWARE AND EXIT DEVICE PER SPECIFICATIONS
42"
12"
10" HIGH, 1/8" THICK STEEL PLATES WELDED ON BOTH SIDES OF THE GATE AT BOTTOM, FULL WIDTH OF THE GATE. CAP VOID SPACES CREATED BY THE KICKPLATES WITH A WELDED METAL CAP. THE KICK PLATE AND WELDS SHALL BE POWDER COATED TO MATCH FENCE.

A SD/X103 DECORATIVE METAL FENCING

NOT TO SCALE


HOLE DRILLED IN NEW STEEL PLATE SHALL BE AT THE SAME LOCATION AS THE HOLE IN THE SIGN (TYP)
FENCE PICKETS
ONE 1-1/2" WIDE X 1/8" THICK GALVANIZED STEEL PLATE FOR EVERY TWO BOLTS. THE STEEL PLATE SHALL MATCH THE LENGTH OF THE SIGN.
HOLE IN SIGN, (TYP)
NEW SIGN
LOCK WASHER AND DOUBLE NUT, (TYP)
WASHER, (TYP)
1/4" GALVANIZED BOLT, (TYP)
1/2" MAX. (TYP)

C SD/X103 SIGN MOUNTING DETAIL

NOT TO SCALE

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

General Notes

Blair, Church & Flynn
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LANE R. BADER
No. 47,033
CIVIL

Consultant

Community Day School Modernization
Merced City School District
Merced, CA

Project

SITE DEVELOPMENT
DETAILS

Drawing

darden architects
ARCHITECTURE
PLANNING
INTERIORS
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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

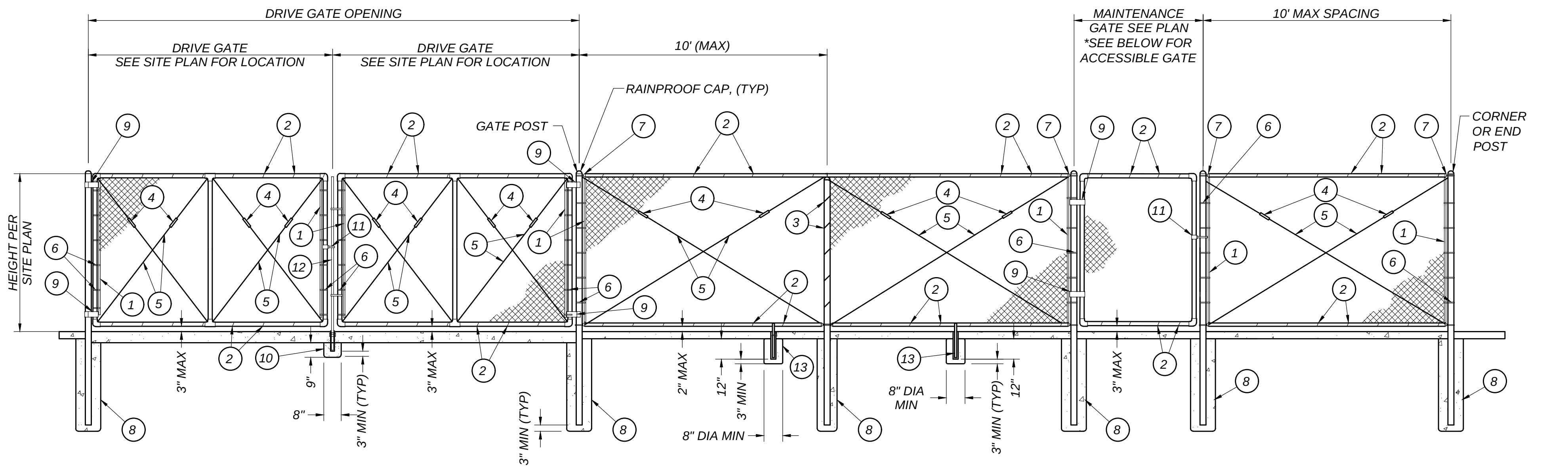
Architect

No.	Revision/Submission	Date

Revision

	Designed By: DG	Copyright 2026 Darden Architects
Scale: As Indicated	Drawn By: SD	SD/X103
Project Number: 2533	Checked By: LRB	
Date: 2/9/2026	Reviewed By: JDB	Sheet: ________ of: ________

Drawing: P:\225\225-0385\Site\ProductionDrawings\225385_dt01.dwg; X103 - BCF.ctb
Plot by: dgaona Feb 05, 2026 - 4:02pm



FENCE AND GATE ELEVATIONS

CHAIN LINK FENCE SIZING SCHEDULE - OPEN FABRIC

FENCE HEIGHT	END, ANGLE, CORNER POSTS			LINE POSTS			SINGLE LEAF MAN GATE POSTS			DOUBLE GATE POSTS			COMMENT
	POST DIAMETER	FOOTING DIAMETER	FOOTING DEPTH	POST DIAMETER	FOOTING DIAMETER	FOOTING DEPTH	POST DIAMETER	FOOTING DIAMETER	FOOTING DEPTH	POST DIAMETER	FOOTING DIAMETER	FOOTING DEPTH	
4'	2-7/8" O.D.	12"	4'-0"	2-3/8" O.D.	12"	3'-3"	2-7/8" O.D.	12"	4'-0"	4" O.D.	15"	5'-0"	1.66" O.D. TOP AND BOTTOM RAIL, SCHEDULE 40
6'	2-7/8" O.D.	12"	4'-0"	2-3/8" O.D.	12"	3'-3"	2-7/8" O.D.	12"	4'-0"	6-5/8" O.D.	15"	5'-0"	
10'	4" O.D.	12"	4'-0"	4" O.D.	12"	4'-0"	4" O.D.	12"	4'-0"	6-5/8" O.D.	15"	5'-0"	1.66" O.D. POST BRACE RAIL

A SD/X104 CHAIN LINK FENCE AND GATES

NOT TO SCALE

OPEN FABRIC CHAIN LINK FENCE AND GATE LEGEND:

① *1/8" X 3/4" BLACK VINYL COATED STEEL STRETCHER BAR.*

② *9 GAUGE (0.148" DIA) BLACK VINYL COATED STEEL TIE WIRES OR HOG RINGS AT 15" MAXIMUM SPACING. MINIMUM OF 8 TIE WIRES PER EACH 10' HORIZONTAL RAIL.*

③ *6 GAUGE (0.192" DIA) BLACK VINYL COATED STEEL POST CLIPS AT 14" MAXIMUM SPACING. MINIMUM 3 POST CLIPS FOR EACH 4' POST.*

④ *BLACK VINYL COATED ADJUSTABLE TURNBUCKLE FOR 3/8" DIAMETER TRUSS ROD.*

⑤ *3/8" DIAMETER BLACK VINYL COATED STEEL ADJUSTABLE TRUSS ROD. TRUSS RODS REQUIRED FOR ALL GATE POST PANELS, END OR CORNER POST PANELS.*

⑥ *1/8" THICK BLACK VINYL COATED STEEL STRETCHER BAR TENSION BAND AT 12" MAXIMUM SPACING. MINIMUM OF 4 TENSION BANDS FOR EACH 4' POST SECTION.*

⑦ *BLACK VINYL COATED RAIL ENDS.*

⑧ *CONCRETE FOOTING, TYPICAL.*

⑨ *HINGES PER THE SPECIFICATION.*

⑩ *BLACK VINYL COATED STEEL PIPE SLEEVE FOR GATE DROP ROD.*

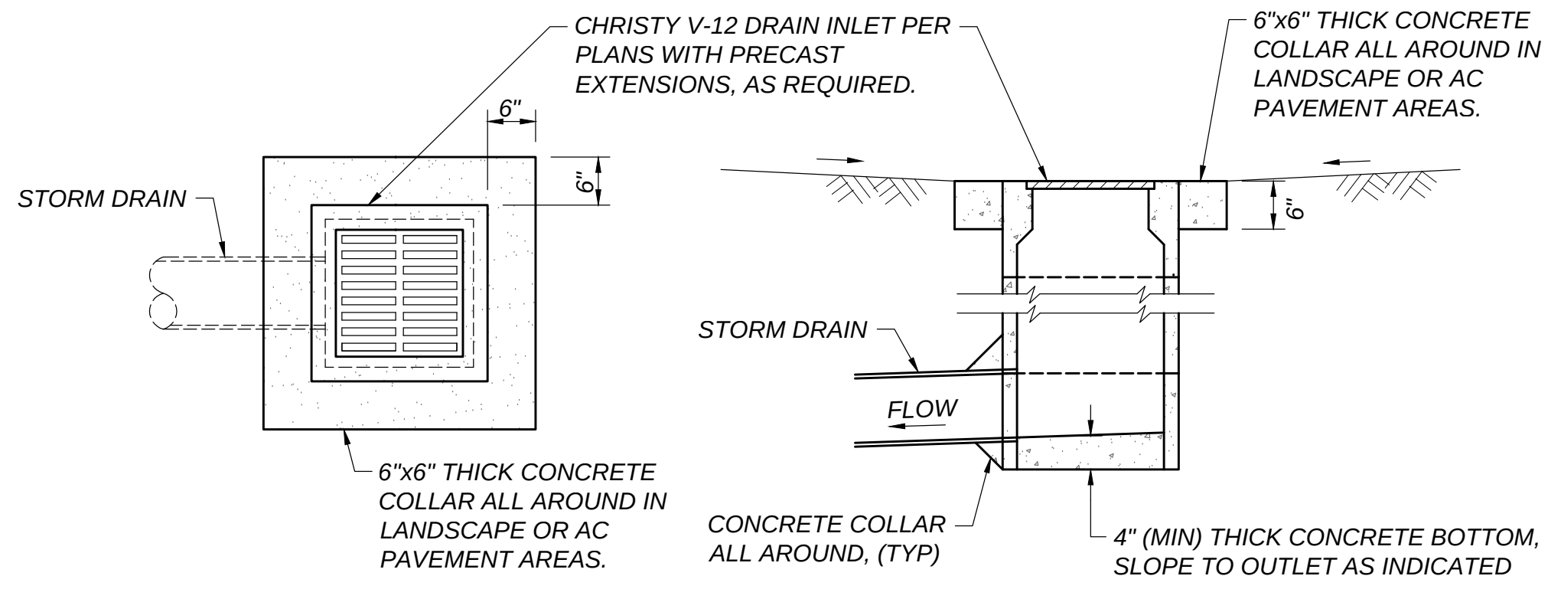
⑪ *LOCKABLE FORK LATCH PER SPECIFICATIONS*

⑫ *CENTER GATE DROP POST AND LATCH*

⑬ *INSTALL GATE HOLDBACK FOR ALL GATES.*

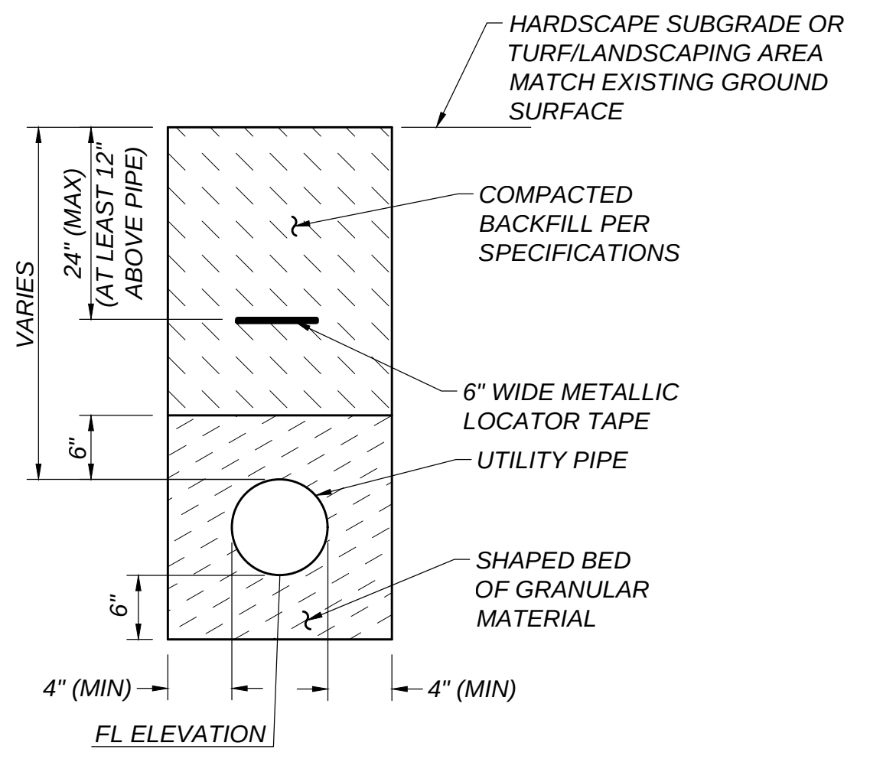
OPEN FABRIC CHAIN LINK FENCE AND GATE NOTES:

1. *GATE FRAME SHALL BE 2" O.D. BLACK VINYL COATED STEEL (2.72 LB/FT).*
2. *FENCE FABRIC SHALL BE 2" X 2" MESH X 9 GAUGE BLACK VINYL COATED FENCE FABRIC WITH KNUCKLED TOP AND BOTTOM SELVAGE. FENCE FABRIC TO BE BLACK VINYL COATED BEFORE WEAVING (GBW)*
3. *ALL FENCES ADJACENT TO ATHLETIC FIELDS, COURTS, BALLFIELDS, OR RUNNING TRACKS SHALL HAVE 1.66" O.D. BOTTOM RAILS INSTEAD OF TENSION WIRE*
4. *MATCH OWNER'S LOCKSET GATE HARDWARE AND KEYING SYSTEM FOR ALL KEYED GATES.*
5. *WALK GATE POST SIZE LIMITED TO 6 FOOT WIDTH OR LESS. SEE DRIVE GATE SIZING FOR LARGER LEAF WIDTHS.*
6. *DOUBLE TRUSS RODS ARE REQUIRED IN PANELS ADJACENT TO GATE POSTS AND AT ALL FENCE CORNERS AND END PANELS.*
7. *ALL GATE CORNERS AND SUPPORT POINTS SHALL BE FASTENED TOGETHER AND REINFORCED WITH MALLEABLE IRON FITTINGS DESIGNED FOR THAT PURPOSE. WELDED CONNECTIONS WILL NOT BE ALLOWED.*
8. *TACK WELD ALL GATE HINGES AND LATCH COLLARS TO POST.*
9. *ALL AREAS AFFECTED BY WELDING, TRIMMED ENDS OF BOLTS, STRETCHER BARS, TRUSS RODS OR ANY EXPOSED STEEL SHALL BE PAINTED (BLACK VINYL COATED) PER CONTRACT SPECIFICATIONS.*
10. *CONTRACTOR TO PROVIDE AND INSTALL GATE HOLDBACK FOR EACH GATE. HOLDBACK TO BE INSTALLED IN FENCE MOWSTRIP UNLESS OTHERWISE NOTED.*


CHRISTY V-12 DRAIN INLET PER PLANS WITH PRECAST EXTENSIONS, AS REQUIRED.
6"x6" THICK CONCRETE COLLAR ALL AROUND IN LANDSCAPE OR AC PAVEMENT AREAS.
STORM DRAIN
6"
6"
6"x6" THICK CONCRETE COLLAR ALL AROUND IN LANDSCAPE OR AC PAVEMENT AREAS.
6"
STORM DRAIN
FLOW
CONCRETE COLLAR ALL AROUND, (TYP)
4" (MIN) THICK CONCRETE BOTTOM, SLOPE TO OUTLET AS INDICATED

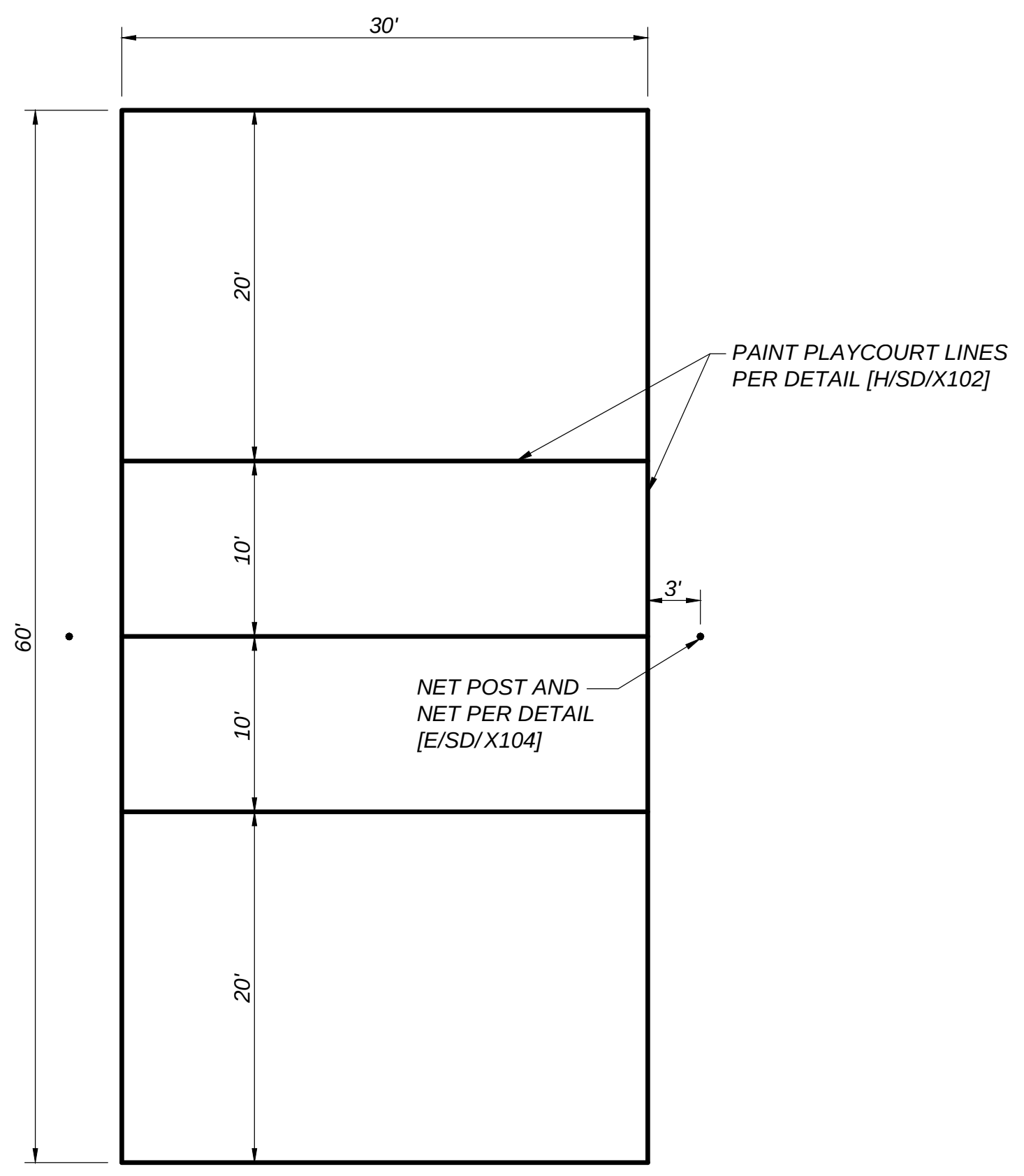
B SD/X104 V-12 DRAIN INLET WITH CONCRETE COLLAR

NOT TO SCALE


HARDSCAPE SUBGRADE OR TURF/LANDSCAPING AREA MATCH EXISTING GROUND SURFACE
VARIES
24" (MAX) (AT LEAST 12" ABOVE PIPE)
COMPACTED BACKFILL PER SPECIFICATIONS
6" WIDE METALLIC LOCATOR TAPE
6"
UTILITY PIPE
SHAPED BED OF GRANULAR MATERIAL
6"
4" (MIN)
4" (MIN)
FL ELEVATION

C SD/X104 TRENCH DETAIL FOR UTILITY LINES

NOT TO SCALE

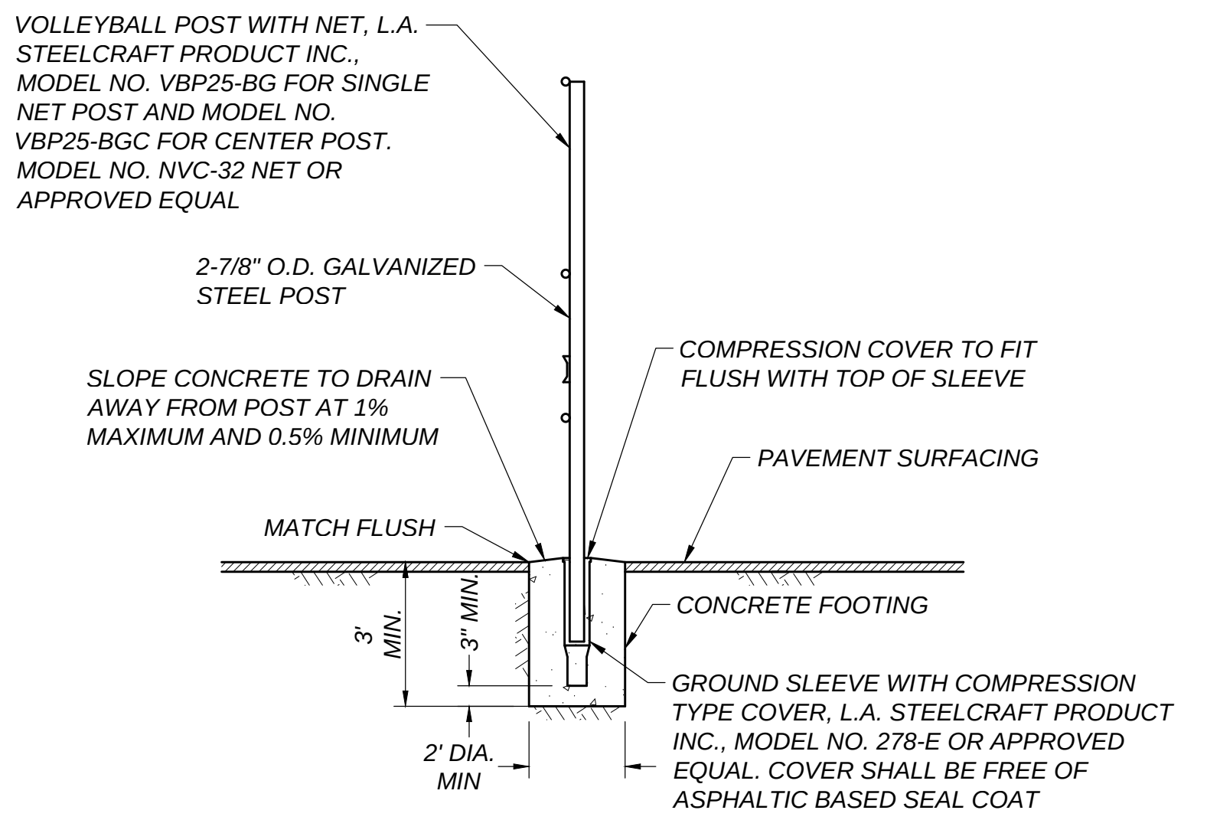

30'
60'
20'
10'
10'
20'
3'
PAINT PLAYCOURT LINES PER DETAIL [H/SD/X102]
NET POST AND NET PER DETAIL [E/SD/X104]

D SD/X104 VOLLEYBALL COURT

NOT TO SCALE

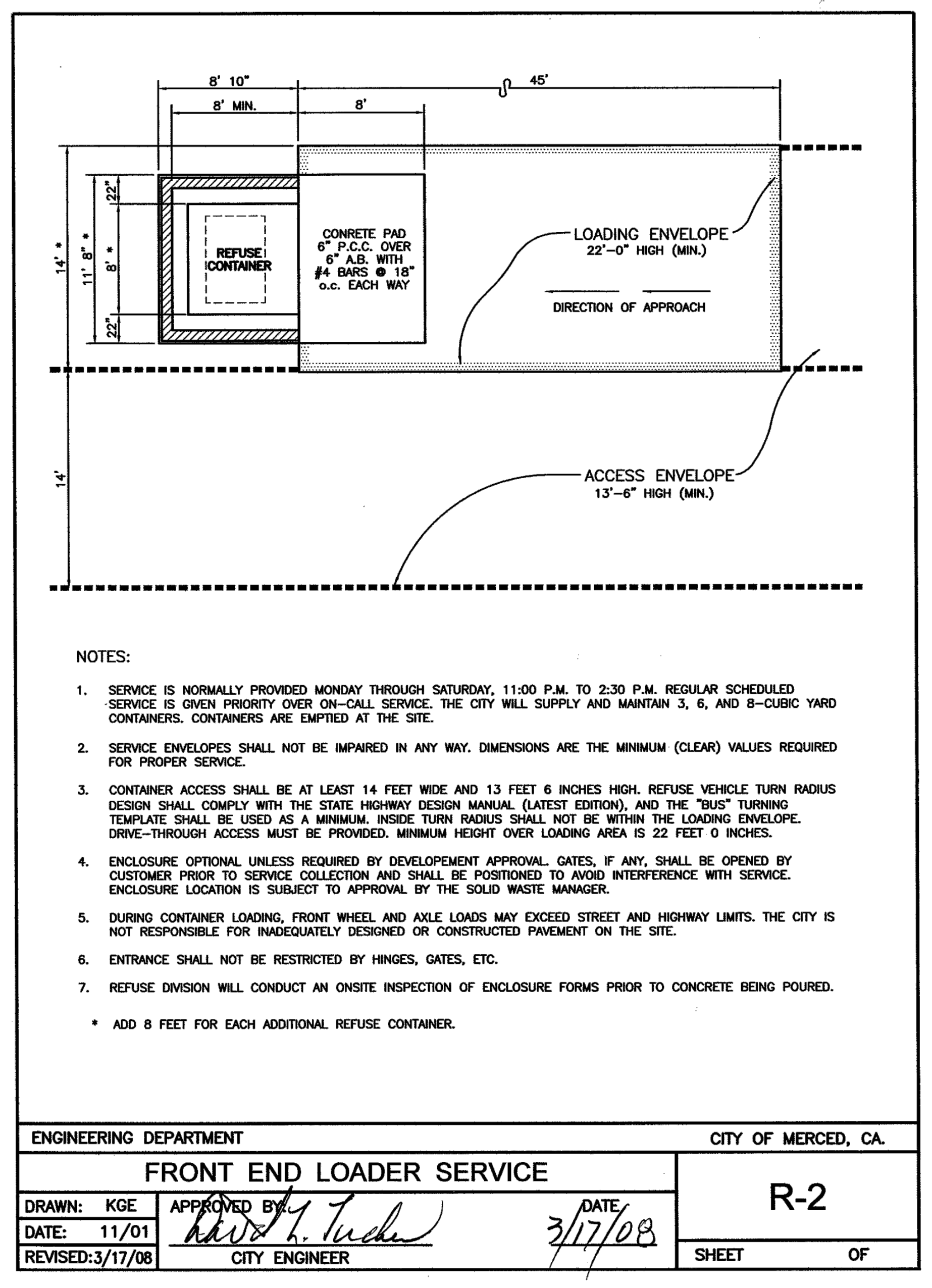
VOLLEYBALL NOTES:

1. PROVIDE 1 VOLLEYBALL NET PER COURT.


VOLLEYBALL POST WITH NET, L.A. STEELCRAFT PRODUCT INC., MODEL NO. VBP25-BG FOR SINGLE NET POST AND MODEL NO. VBP25-BGC FOR CENTER POST. MODEL NO. NVC-32 NET OR APPROVED EQUAL
2-7/8" O.D. GALVANIZED STEEL POST
SLOPE CONCRETE TO DRAIN AWAY FROM POST AT 1% MAXIMUM AND 0.5% MINIMUM
COMPRESSION COVER TO FIT FLUSH WITH TOP OF SLEEVE
PAVEMENT SURFACING
MATCH FLUSH
CONCRETE FOOTING
3' MIN.
3" MIN.
2' DIA. MIN
GROUND SLEEVE WITH COMPRESSION TYPE COVER, L.A. STEELCRAFT PRODUCT INC., MODEL NO. 278-E OR APPROVED EQUAL. COVER SHALL BE FREE OF ASPHALTIC BASED SEAL COAT

E SD/X104 VOLLEYBALL POST

NOT TO SCALE

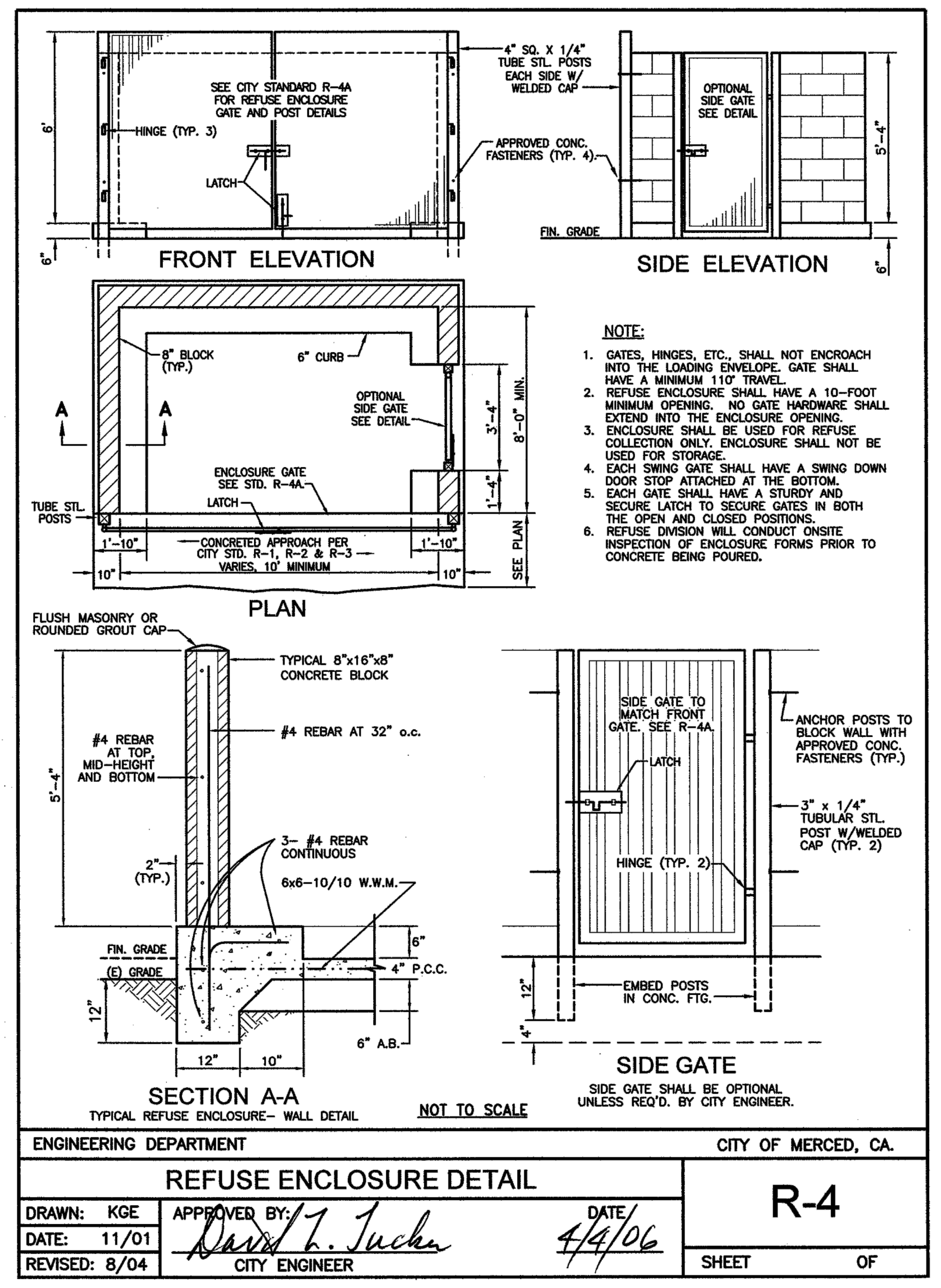

8' 10"
8' MIN.
8'
45'
14' *
11' 8" *
8' *
22"
22"
REFUSE CONTAINER
CONRETE PAD 6" P.C.C. OVER 6" A.B. WITH #4 BARS @ 18" o.c. EACH WAY
LOADING ENVELOPE 22'-0" HIGH (MIN.)
DIRECTION OF APPROACH
14'
ACCESS ENVELOPE 13'-6" HIGH (MIN.)

NOTES:

1. SERVICE IS NORMALLY PROVIDED MONDAY THROUGH SATURDAY, 11:00 P.M. TO 2:30 P.M. REGULAR SCHEDULED SERVICE IS GIVEN PRIORITY OVER ON-CALL SERVICE. THE CITY WILL SUPPLY AND MAINTAIN 3, 6, AND 8-CUBIC YARD CONTAINERS. CONTAINERS ARE EMPTIED AT THE SITE.
2. SERVICE ENVELOPES SHALL NOT BE IMPAIRED IN ANY WAY. DIMENSIONS ARE THE MINIMUM (CLEAR) VALUES REQUIRED FOR PROPER SERVICE.
3. CONTAINER ACCESS SHALL BE AT LEAST 14 FEET WIDE AND 13 FEET 6 INCHES HIGH. REFUSE VEHICLE TURN RADIUS DESIGN SHALL COMPLY WITH THE STATE HIGHWAY DESIGN MANUAL (LATEST EDITION), AND THE "BUS" TURNING TEMPLATE SHALL BE USED AS A MINIMUM. INSIDE TURN RADIUS SHALL NOT BE WITHIN THE LOADING ENVELOPE. DRIVE-THROUGH ACCESS MUST BE PROVIDED. MINIMUM HEIGHT OVER LOADING AREA IS 22 FEET 0 INCHES.
4. ENCLOSURE OPTIONAL UNLESS REQUIRED BY DEVELOPEMENT APPROVAL. GATES, IF ANY, SHALL BE OPENED BY CUSTOMER PRIOR TO SERVICE COLLECTION AND SHALL BE POSITIONED TO AVOID INTERFERENCE WITH SERVICE. ENCLOSURE LOCATION IS SUBJECT TO APPROVAL BY THE SOLID WASTE MANAGER.
5. DURING CONTAINER LOADING, FRONT WHEEL AND AXLE LOADS MAY EXCEED STREET AND HIGHWAY LIMITS. THE CITY IS NOT RESPONSIBLE FOR INADEQUATELY DESIGNED OR CONSTRUCTED PAVEMENT ON THE SITE.
6. ENTRANCE SHALL NOT BE RESTRICTED BY HINGES, GATES, ETC.
7. REFUSE DIVISION WILL CONDUCT AN ONSITE INSPECTION OF ENCLOSURE FORMS PRIOR TO CONCRETE BEING POURED.

* ADD 8 FEET FOR EACH ADDITIONAL REFUSE CONTAINER.

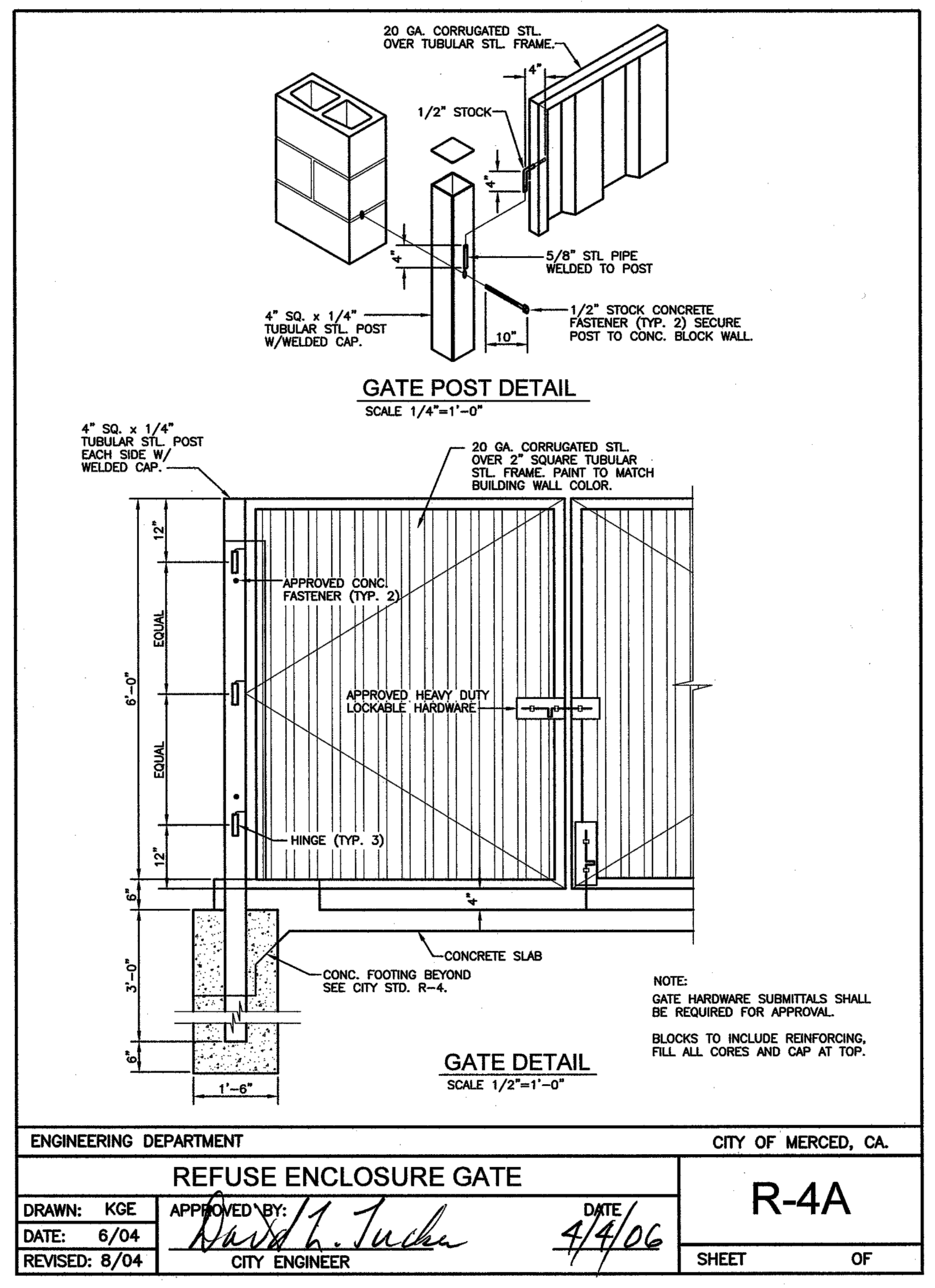
ENGINEERING DEPARTMENT		CITY OF MERCED, CA.
FRONT END LOADER SERVICE		R-2
DRAWN: KGE DATE: 11/01 REVISED:3/17/08	APPROVED BY: David L. Tucker CITY ENGINEER DATE 3/17/08	SHEET OF


FRONT ELEVATION
SEE CITY STANDARD R-4A FOR REFUSE ENCLOSURE GATE AND POST DETAILS
HINGE (TYP. 3)
LATCH
6'
6"
4" SQ. X 1/4" TUBE STL. POSTS EACH SIDE W/ WELDED CAP
APPROVED CONC. FASTENERS (TYP. 4).
OPTIONAL SIDE GATE SEE DETAIL
FIN. GRADE
5'-4"
6"
SIDE ELEVATION
PLAN
8" BLOCK (TYP.)
6" CURB
OPTIONAL SIDE GATE SEE DETAIL
A
A
ENCLOSURE GATE SEE STD. R-4A.
LATCH
TUBE STL. POSTS
1'-10"
1'-10"
CONCRETED APPROACH PER CITY STD. R-1, R-2 & R-3 VARIES, 10' MINIMUM
10"
10"
3'-4"
1'-4"
8'-0" MIN.
SEE PLAN
FLUSH MASONRY OR ROUNDED GROUT CAP
TYPICAL 8"x16"x8" CONCRETE BLOCK
#4 REBAR AT 32" o.c.
#4 REBAR AT TOP, MID-HEIGHT AND BOTTOM
5'-4"
3- #4 REBAR CONTINUOUS
6x6-10/10 W.W.M.
2" (TYP.)
FIN. GRADE
(E) GRADE
6"
4" P.C.C.
12"
6" A.B.
12"
10"
SECTION A-A
TYPICAL REFUSE ENCLOSURE- WALL DETAIL
SIDE GATE TO MATCH FRONT GATE. SEE R-4A.
LATCH
ANCHOR POSTS TO BLOCK WALL WITH APPROVED CONC. FASTENERS (TYP.)
3" x 1/4" TUBULAR STL. POST W/WELDED CAP (TYP. 2)
HINGE (TYP. 2)
EMBED POSTS IN CONC. FTG.
12"
4"
SIDE GATE
SIDE GATE SHALL BE OPTIONAL UNLESS REQ'D. BY CITY ENGINEER.
NOT TO SCALE

NOTE:

1. GATES, HINGES, ETC., SHALL NOT ENCROACH INTO THE LOADING ENVELOPE. GATE SHALL HAVE A MINIMUM 110° TRAVEL.
2. REFUSE ENCLOSURE SHALL HAVE A 10-FOOT MINIMUM OPENING. NO GATE HARDWARE SHALL EXTEND INTO THE ENCLOSURE OPENING.
3. ENCLOSURE SHALL BE USED FOR REFUSE COLLECTION ONLY. ENCLOSURE SHALL NOT BE USED FOR STORAGE.
4. EACH SWING GATE SHALL HAVE A SWING DOWN DOOR STOP ATTACHED AT THE BOTTOM.
5. EACH GATE SHALL HAVE A STURDY AND SECURE LATCH TO SECURE GATES IN BOTH THE OPEN AND CLOSED POSITIONS.
6. REFUSE DIVISION WILL CONDUCT ONSITE INSPECTION OF ENCLOSURE FORMS PRIOR TO CONCRETE BEING POURED.

ENGINEERING DEPARTMENT		CITY OF MERCED, CA.
REFUSE ENCLOSURE DETAIL		R-4
DRAWN: KGE DATE: 11/01 REVISED: 8/04	APPROVED BY: David L. Tucker CITY ENGINEER DATE 4/4/06	SHEET OF


20 GA. CORRUGATED STL. OVER TUBULAR STL. FRAME.
4"
1/2" STOCK
4"
4"
5/8" STL PIPE WELDED TO POST
4" SQ. x 1/4" TUBULAR STL. POST W/WELDED CAP.
10"
1/2" STOCK CONCRETE FASTENER (TYP. 2) SECURE POST TO CONC. BLOCK WALL.
GATE POST DETAIL
SCALE 1/4"=1'-0"
4" SQ. x 1/4" TUBULAR STL. POST EACH SIDE W/ WELDED CAP.
20 GA. CORRUGATED STL. OVER 2" SQUARE TUBULAR STL. FRAME. PAINT TO MATCH BUILDING WALL COLOR.
12"
EQUAL
6'-0"
EQUAL
12"
APPROVED CONC. FASTENER (TYP. 2)
APPROVED HEAVY DUTY LOCKABLE HARDWARE
HINGE (TYP. 3)
6"
4"
3'-0"
6"
1'-6"
CONCRETE SLAB
CONC. FOOTING BEYOND SEE CITY STD. R-4.
GATE DETAIL
SCALE 1/2"=1'-0"

NOTE:

GATE HARDWARE SUBMITTALS SHALL BE REQUIRED FOR APPROVAL.

BLOCKS TO INCLUDE REINFORCING, FILL ALL CORES AND CAP AT TOP.

ENGINEERING DEPARTMENT		CITY OF MERCED, CA.
REFUSE ENCLOSURE GATE		R-4A
DRAWN: KGE DATE: 6/04 REVISED: 8/04	APPROVED BY: David L. Tucker CITY ENGINEER DATE 4/4/06	SHEET OF

F SD/X104 TRASH ENCLOSURE

NOT TO SCALE

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

General Notes

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REGISTERED PROFESSIONAL ENGINEER LANE R. BADER No. 47033 CIVIL STATE OF CALIFORNIA

Consultant

Community Day School Modernization
Merced City School District
Merced, CA

Project

SITE DEVELOPMENT
DETAILS

Drawing

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LICENSED ARCHITECT GRANT E. DODSON No. C-20,307 Ren. 6-30-27 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

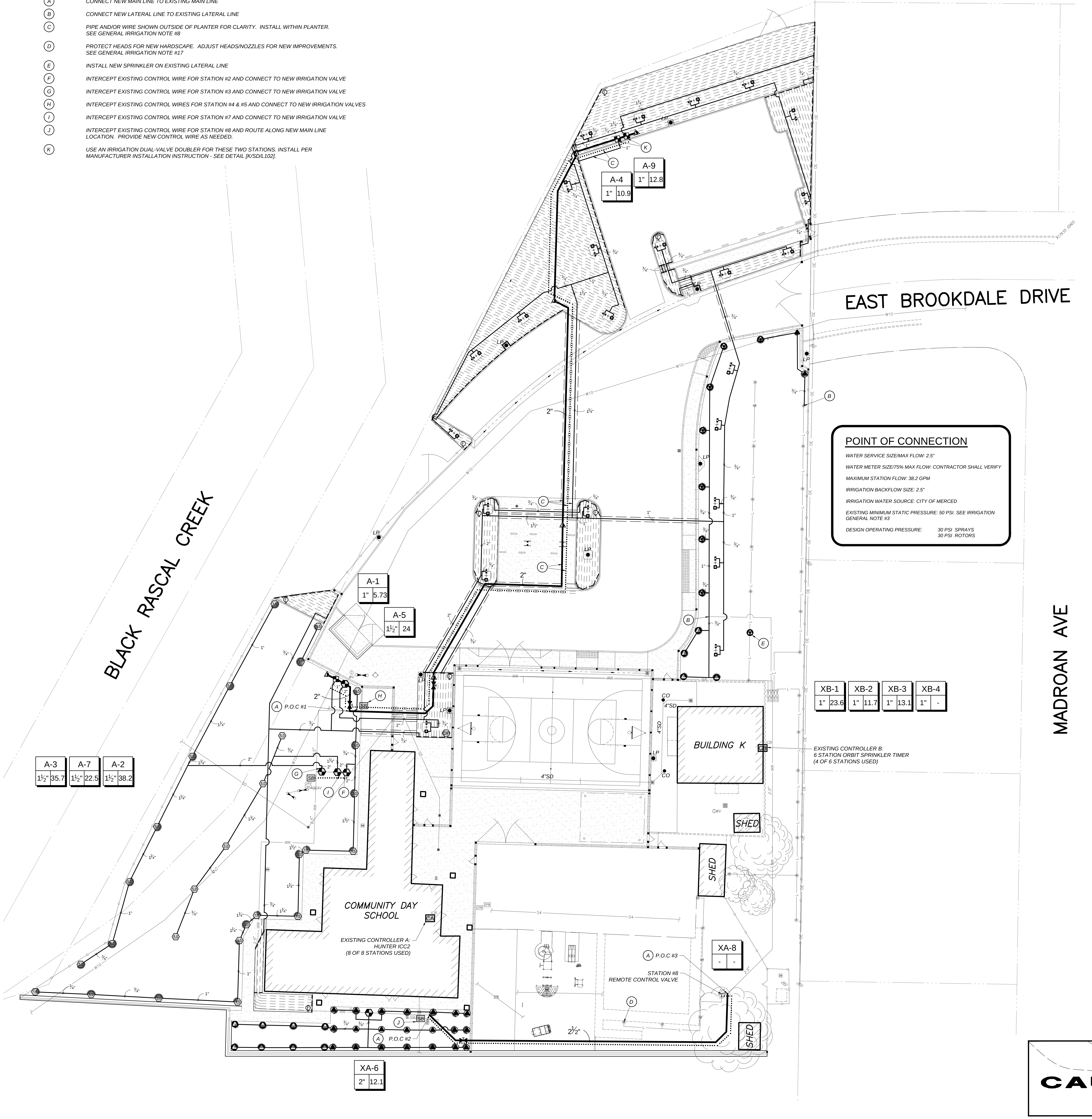
Revision

	Designed By: DG	Copyright 2026 Darden Architects
Scale: As Indicated	Drawn By: SD	*SD/X104*
Project Number: 2533	Checked By: LRB	
Date: 2/9/2026	Reviewed By: JDB	Sheet: ______ of: ______

Drawing: P:\225\225-0385\Site\ProductionDrawings\225385_dt01.dwg; X104 – BCF.ctb
Plot by: dgaona Feb 05, 2026 – 4:02pm

KEYNOTES:

Ⓐ	CONNECT NEW MAIN LINE TO EXISTING MAIN LINE
Ⓑ	CONNECT NEW LATERAL LINE TO EXISTING LATERAL LINE
Ⓒ	PIPE AND/OR WIRE SHOWN OUTSIDE OF PLANTER FOR CLARITY. INSTALL WITHIN PLANTER. SEE GENERAL IRRIGATION NOTE #8
Ⓓ	PROTECT HEADS FOR NEW HARDSCAPE. ADJUST HEADS/NOZZLES FOR NEW IMPROVEMENTS. SEE GENERAL IRRIGATION NOTE #17
Ⓔ	INSTALL NEW SPRINKLER ON EXISTING LATERAL LINE
Ⓕ	INTERCEPT EXISTING CONTROL WIRE FOR STATION #2 AND CONNECT TO NEW IRRIGATION VALVE
Ⓖ	INTERCEPT EXISTING CONTROL WIRE FOR STATION #3 AND CONNECT TO NEW IRRIGATION VALVE
Ⓗ	INTERCEPT EXISTING CONTROL WIRES FOR STATION #4 & #5 AND CONNECT TO NEW IRRIGATION VALVES
Ⓘ	INTERCEPT EXISTING CONTROL WIRE FOR STATION #7 AND CONNECT TO NEW IRRIGATION VALVE
Ⓙ	INTERCEPT EXISTING CONTROL WIRE FOR STATION #8 AND ROUTE ALONG NEW MAIN LINE LOCATION. PROVIDE NEW CONTROL WIRE AS NEEDED.
Ⓚ	USE AN IRRIGATION DUAL-VALVE DOUBLER FOR THESE TWO STATIONS. INSTALL PER MANUFACTURER INSTALLATION INSTRUCTION - SEE DETAIL [K/SD/L102].



POINT OF CONNECTION

WATER SERVICE SIZE/MAX FLOW: 2.5"

WATER METER SIZE/75% MAX FLOW: CONTRACTOR SHALL VERIFY

MAXIMUM STATION FLOW: 38.2 GPM

IRRIGATION BACKFLOW SIZE: 2.5"

IRRIGATION WATER SOURCE: CITY OF MERCED

EXISTING MINIMUM STATIC PRESSURE: 50 PSI. SEE IRRIGATION GENERAL NOTE #3

DESIGN OPERATING PRESSURE: 30 PSI SPRAYS
30 PSI ROTORS

CAUTION

WATCH FOR OVERHEAD POWER LINES

IRRIGATION LEGEND:

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	ARC	PSI	GPM	RADIUS	DETAIL
▲	HUNTER MP CORNER PROS-04-PRS30-CV T	45-105	30		12'	I/SD/L102
◓	HUNTER MP1000 PROS-04-PRS30-CV M	90-210	30		12'	I/SD/L102
◉	HUNTER MP1000 PROS-04-PRS30-CV O	360	30	0.69	12'	I/SD/L102
●	HUNTER MP2000 PROS-04-PRS30-CV K	90-210	30		17'	I/SD/L102
◉	HUNTER MP3000 PROS-04-PRS30-CV A	360	30	3.15	27'	I/SD/L102
●	HUNTER MP3000 PROS-04-PRS30-CV B	90-210	30		27'	I/SD/L102
▪	TREE BUBBLER A - 50 HUNTER RZWS-18-CV	360	30	0.5	3'	A/SD/L103
■	TREE BUBBLER B - 50Q HUNTER MSBN ON A HUNTER PROS-06-PRS30-CV	90	30	0.5	2'	A/SD/L103

SYMBOL	MANUFACTURER/MODEL	PSI	GPM	RADIUS	DETAIL
1.5	HUNTER PGP-04-PRB 1.5	35	1.4	31'	J/SD/L102
5.0	HUNTER PGP-04-PRB 5.0	35	4.5	39'	J/SD/L102

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
▚	DRIP CONTROL ZONE KIT HUNTER ICZ-101-25-LF	E/SD/L103
F	FLUSH VALVE ASSEMBLY	I/SD/L103
OP	DRIP OPERATION INDICATOR HUNTER ECO-ID	H/SD/L103
▤	AREA TO RECEIVE DRIPLINE NETAFIM TLCV-04-18 (18) TECHLINE PRESSURE COMPENSATING LANDSCAPE 17MM DRIPLINE WITH CHECK VALVE. 0.4GPH EMITTERS AT 18" O.C. DRIPLINE LATERALS SPACED AT ±18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. 3" MINIMUM COVERAGE OVER TUBES	G/SD/L103

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
⬢	EXISTING VALVE FOR CONTROLLER B IRRITROL 2713DPR	
⬢	REMOTE CONTROL VALVE HUNTER ICV-G	G/SD/L102
△	QUICK COUPLER HUNTER HQ-44LRC	D/SD/L103
⧗	RESILIENT WEDGE GATE VALVE MATCH MAIN LINE SIZE	C/SD/L103
CA	EXISTING IRRIGATION CONTROLLER A HUNTER ICC2 (8 OF 8 STATIONS USED). CONVENTIONAL WIRE SYSTEM CONTROLLER WITH NO SPARE WIRES. CONTRACTOR SHALL VERIFY. PROVIDE A HUNTER ICM-400 FOUR STATION EXPANSION MODULE	
CB	EXISTING IRRIGATION CONTROLLER B 6 STATION ORBIT SPRINKLER TIMER (4 OF 6 STATIONS USED). CONVENTIONAL WIRE TYPE CONTROLLER, NO SPARE WIRE. CONTRACTOR SHALL VERIFY.	
SB	SPLICE BOX	H/SD/L102
───	IRRIGATION LATERAL LINE: PVC SCHEDULE 40, BELL END, SOLVENT WELD, SIZE AS NOTED	C/SD/L102
━━━	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 GASKETED BELL, SIZE AS NOTED	A/SD/L102
═ ═ ═	PIPE SLEEVE: PVC SCHEDULE 40 TWICE PIPE SIZE	D/SD/L102
=:=:=	CONTROL WIRE SLEEVE	D/SD/L102
— — —	DRIPLINE MANIFOLD: PVC SCHEDULE 40	F/SD/L103
······	CONTROL WIRE PLUS ONE (1) COMMON WIRE	E/SD/L102

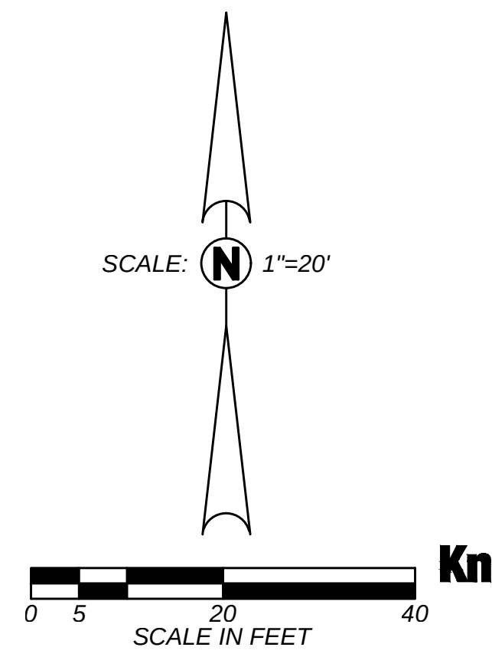
#	VALVE NUMBER
#" #	VALVE FLOW (GPM)
	VALVE SIZE

+ PROPOSED TREE, SEE PLANTING PLAN ON SHEET SD/L201 FOR VARIETY AND SIZE

WATER CONSERVATION COMPLIANCE STATEMENT:

I HAVE COMPLIED WITH THE PERFORMANCE COMPLIANCE OPTION CRITERIA OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.

IAN THOMPSON, RLA 7063



811
Know what's below.
Call before you dig.

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

CONTRACTOR SPECIAL IRRIGATION NOTES:

1. THE CONTRACTOR SHALL PERFORM AN OPERATIONAL ASSESSMENT OF THE EXISTING IRRIGATION SYSTEM WITHIN THE AREA OF WORK WITH THE OWNER'S REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION OPERATIONS.
2. THE CONTRACTOR SHALL ENSURE THAT ALL EXISTING PLANTING SCHEDULED TO REMAIN SHALL CONTINUE TO BE IRRIGATED THROUGHOUT THE COURSE OF CONSTRUCTION OPERATIONS. ANY DAMAGE TO THE EXISTING IRRIGATION SYSTEM THAT IMPACTS EXISTING PLANTING TO REMAIN SHALL BE IMMEDIATELY REPAIRED TO THE OWNER'S SATISFACTION.
3. PRIOR TO THE START OF ANY SHRUB, GROUND COVER, AND/OR TURFGRASS PLANTING, AN OPERATIONAL REVIEW OF THE IRRIGATION SYSTEM SHALL BE PERFORMED FOR PROPER COVERAGE AND SOIL MOISTURE DEPTH BY THE OWNER'S REPRESENTATIVE. ALL CORRECTIONS AND/OR ADJUSTMENTS SHALL BE COMPLETED AND VERIFIED BY THE OWNER'S REPRESENTATIVE BEFORE GROUND LEVEL PLANTING MAY COMMENCE.
4. THE ORIGINAL IRRIGATION SYSTEM OBSERVATION LOG SHALL BE MAINTAINED ON THE AS-BUILT RECORD DRAWING SET.
5. THE AS-BUILT RECORD DRAWING SET AND OTHER CLOSE-OUT ITEMS SHALL BE SUBMITTED AND ACCEPTED PRIOR TO THE SCHEDULING OF A FINAL ACCEPTANCE REVIEW.
6. UNLESS NOTED OTHERWISE, SALVAGE AND RETURN TO THE OWNER ALL IRRIGATION VALVES, HEADS AND OTHER EQUIPMENT COMPONENTS REMOVED AS PART OF THE WORK. SALVAGED COMPONENTS SHALL BE CLEAN AND IN WORKING CONDITION UNLESS NOTED AS NON-OPERATIONAL DURING THE OPERATIONAL ASSESSMENT.

IRRIGATION SYSTEM BID ALLOWANCE:

CONTRACTOR SHALL INCLUDE A BID ALLOWANCE IN THE AMOUNT OF $3,000 FOR THE REPLACEMENT OF EXISTING OR THE INSTALLATION OF NEW SPRINKLER HEADS, VALVES, PIPING AND OTHER EQUIPMENT AND ACCESSORIES NECESSARY FOR THE PROPER OPERATION OF THE EXISTING SYSTEM WHERE NOT SPECIFICALLY SHOWN ON THE DRAWINGS FOR REPLACEMENT OR NEW INSTALLATION.

AS BUILT RECORDS WERE NOT AVAILABLE. ASSESS THE EXISTING SYSTEM AND COMPONENTS, ETC, PER CONTRACTOR SPECIAL IRRIGATION NOTE #1 AND PER GENERAL NOTE #3.

SEE SHEET SD/L102-SD/L103 FOR IRRIGATION NOTES, DETAILS, AND MWELO CALCS

General Notes

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IAN THOMPSON No. 7063
12/31/26 Renewal Date
02/05/26 Date

Consultant

Community Day School Modernization
Merced City School District
Merced, CA

Project

SITE DEVELOPMENT
IRRIGATION PLAN

Drawing

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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

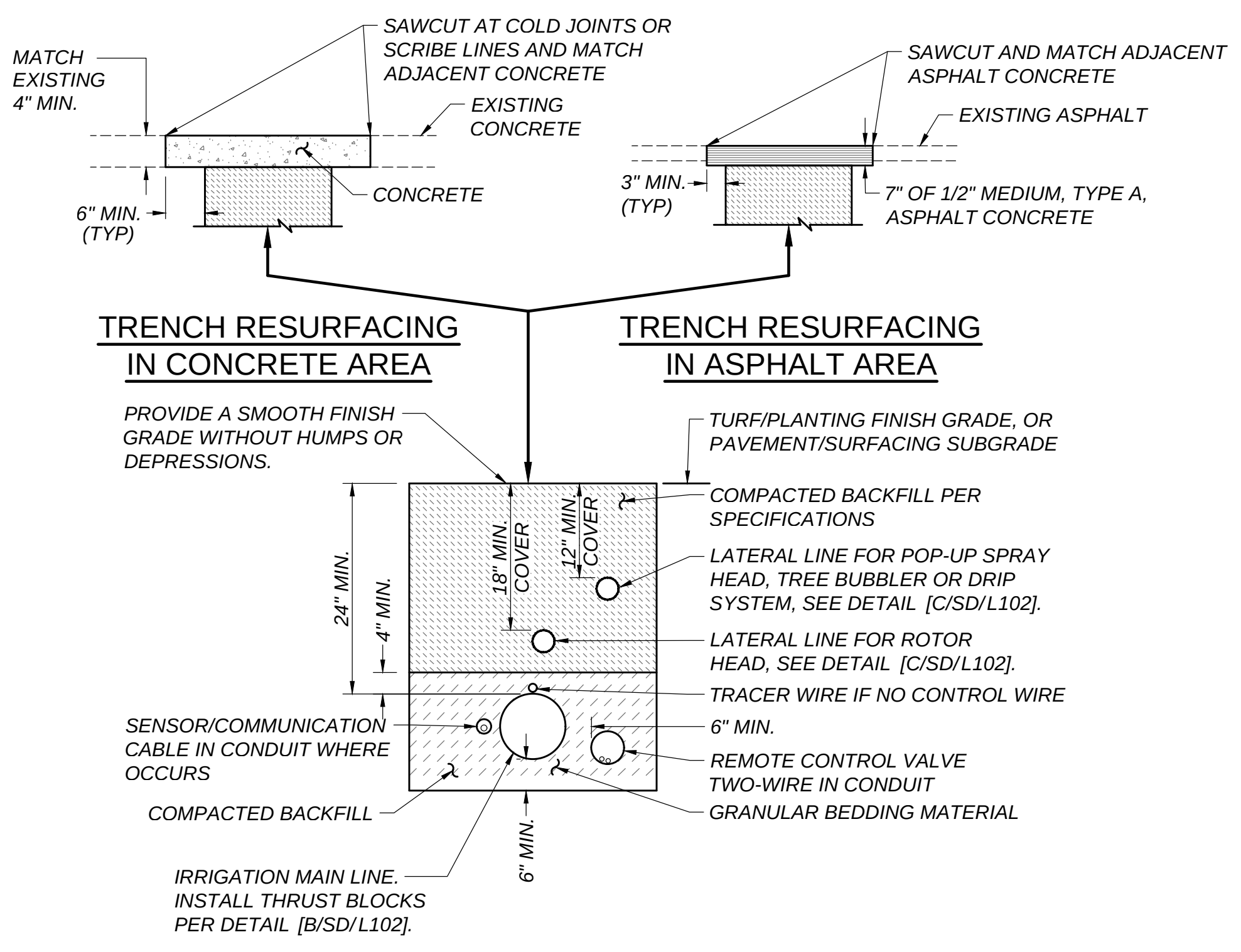
Architect

No.	Revision/Submission	Date

Revision

	Designed By: GB	Copyright 2026 Darden Architects
Scale: As Indicated	Drawn By: GB	SD/L101
Project Number: 2533	Checked By: IT	
Date: 2/9/2026	Reviewed By: JDB	Sheet: ________ of: ________

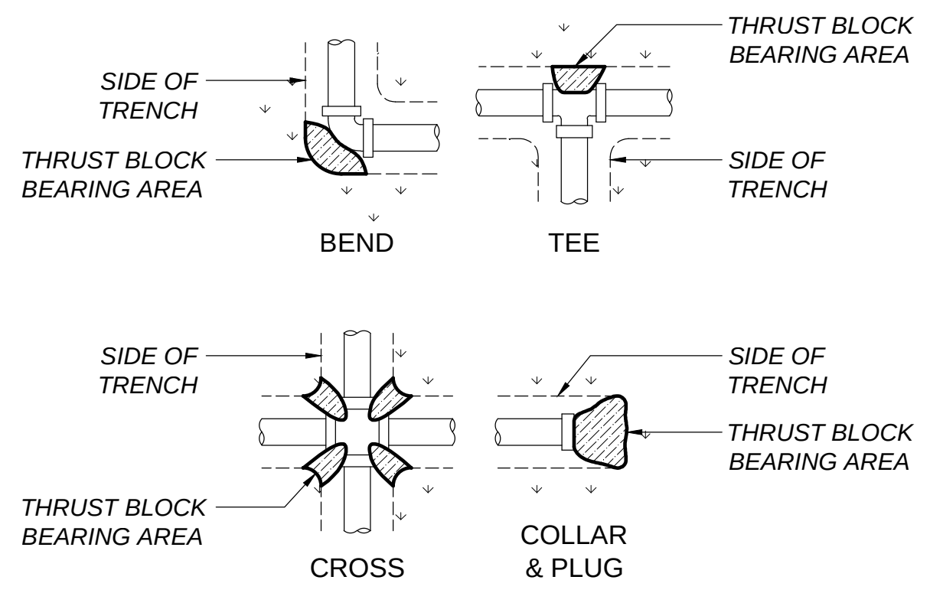
Drawing: P:\225\225-0385\Site\ProductionDrawings\225385_ir01.dwg; L101 - BCF.ctb
Plot by: dgaona Feb 05, 2026 - 4:02pm


MATCH EXISTING 4" MIN.
SAWCUT AT COLD JOINTS OR SCRIBE LINES AND MATCH ADJACENT CONCRETE
EXISTING CONCRETE
CONCRETE
6" MIN. (TYP)
SAWCUT AND MATCH ADJACENT ASPHALT CONCRETE
EXISTING ASPHALT
3" MIN. (TYP)
7" OF 1/2" MEDIUM, TYPE A, ASPHALT CONCRETE
TRENCH RESURFACING IN CONCRETE AREA
TRENCH RESURFACING IN ASPHALT AREA
PROVIDE A SMOOTH FINISH GRADE WITHOUT HUMPS OR DEPRESSIONS.
TURF/PLANTING FINISH GRADE, OR PAVEMENT/SURFACING SUBGRADE
COMPACTED BACKFILL PER SPECIFICATIONS
24" MIN.
4" MIN.
18" MIN. COVER
12" MIN. COVER
LATERAL LINE FOR POP-UP SPRAY HEAD, TREE BUBBLER OR DRIP SYSTEM, SEE DETAIL [C/SD/L102].
LATERAL LINE FOR ROTOR HEAD, SEE DETAIL [C/SD/L102].
TRACER WIRE IF NO CONTROL WIRE
SENSOR/COMMUNICATION CABLE IN CONDUIT WHERE OCCURS
6" MIN.
REMOTE CONTROL VALVE TWO-WIRE IN CONDUIT
COMPACTED BACKFILL
GRANULAR BEDDING MATERIAL
6" MIN.
IRRIGATION MAIN LINE. INSTALL THRUST BLOCKS PER DETAIL [B/SD/L102].

TYPICAL TRENCH SHOWN IN PLANTING AREA

A SD/L102 IRRIGATION TRENCH BACKFILL

NOT TO SCALE


SIDE OF TRENCH
THRUST BLOCK BEARING AREA
BEND
TEE
THRUST BLOCK BEARING AREA
SIDE OF TRENCH
SIDE OF TRENCH
THRUST BLOCK BEARING AREA
CROSS
SIDE OF TRENCH
THRUST BLOCK BEARING AREA
COLLAR & PLUG

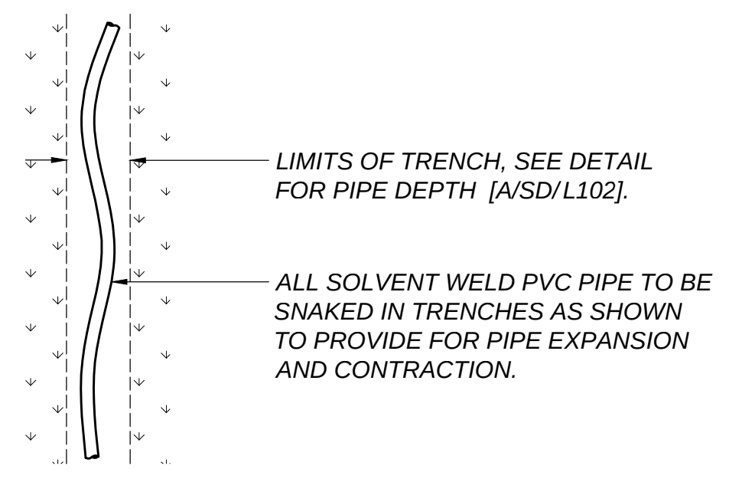
NOTE: CONCRETE PER SPECIFICATIONS. THRUST BLOCKS NOT REQUIRED WITH LESS THAN 2" MAIN LINE

TABLE OF BEARING AREAS REQUIRED (IN SQUARE FEET)

PIPE DIAMETER	* 4"	6"	8"	10"	12"
CROSS, TEE, 90° BEND, PLUG, FIRE HYDRANT	1	3	5	8	11
45° BEND	1	2	3	4	6
22-1/2° BEND	0.5	1	2	2	3
11-1/4° BEND	0	0	1	1	2
GATE VALVE (IN-LINE)	0	1	2.5	4	9

B SD/L102 CONCRETE THRUST BLOCKS

NOT TO SCALE


LIMITS OF TRENCH, SEE DETAIL FOR PIPE DEPTH [A/SD/L102].
ALL SOLVENT WELD PVC PIPE TO BE SNAKED IN TRENCHES AS SHOWN TO PROVIDE FOR PIPE EXPANSION AND CONTRACTION.

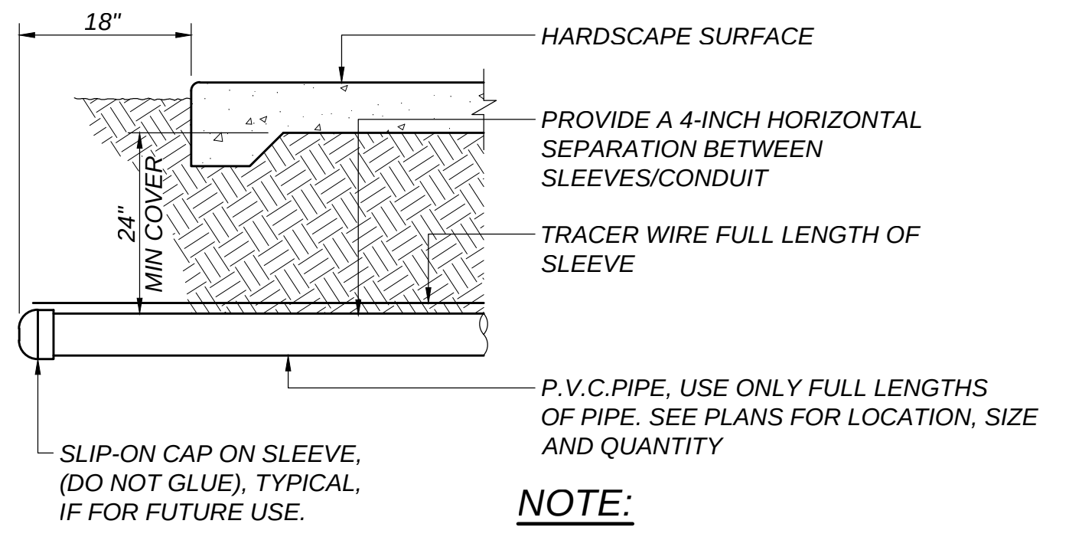
C SD/L102 SOLVENT WELD PIPE

NOT TO SCALE

CONDUIT/SLEEVE FOR CONTROL WIRE

CONDUIT/SLEEVE SIZE	QTY. 14 GA. WIRE
1"	8 OR LESS
1-1/4"	15
1-1/2"	20
2"	32
2-1/2"	45
3"	70
4"	120

NOTE: SLEEVE FOR PIPE IS 2X THE PIPE DIAMETER

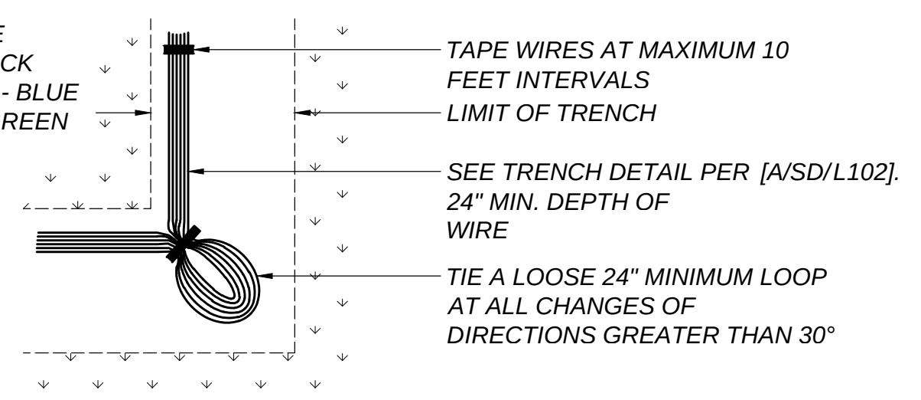

18"
HARDSCAPE SURFACE
24" MIN COVER
PROVIDE A 4-INCH HORIZONTAL SEPARATION BETWEEN SLEEVES/CONDUIT
TRACER WIRE FULL LENGTH OF SLEEVE
P.V.C.PIPE, USE ONLY FULL LENGTHS OF PIPE. SEE PLANS FOR LOCATION, SIZE AND QUANTITY
SLIP-ON CAP ON SLEEVE, (DO NOT GLUE), TYPICAL, IF FOR FUTURE USE.

NOTE:
IF CONTROL WIRES ARE ROUTED IN CONDUIT, SLEEVE FOR WIRES IS NOT REQUIRED

D SD/L102 IRRIGATION SLEEVE/CONDUIT

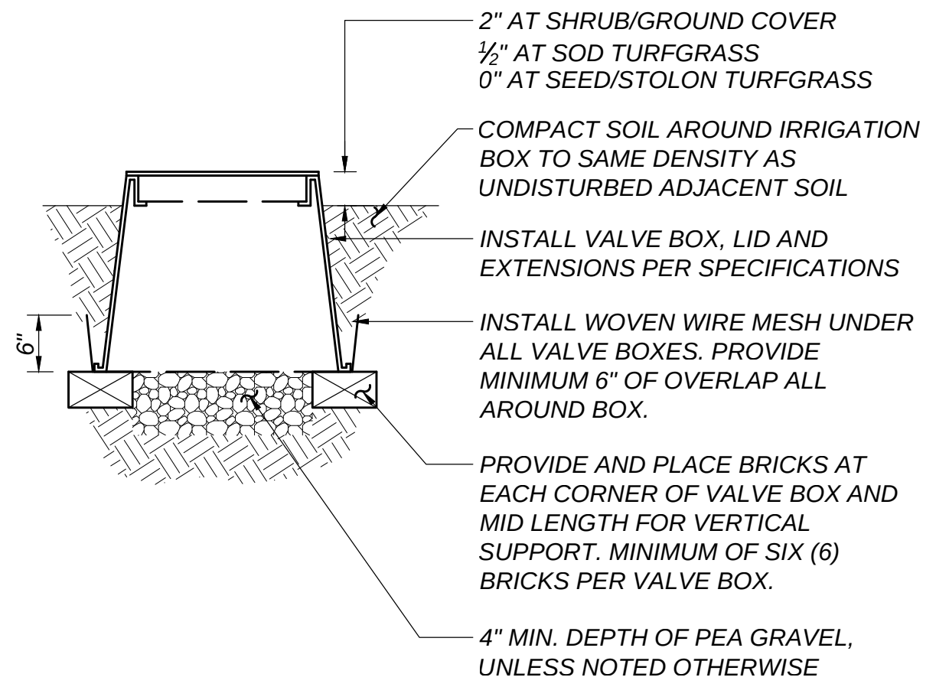
NOT TO SCALE

NOTES:
1. WIRES UNDER PAVEMENT OR WALKS SHALL BE INSTALLED WITHIN A CONDUIT WHICH HAS BEEN PLACED BY BORING, JACKING OR DRILLING. CONDUIT TO BE PVC SCH 40 TYPE II PIPE. WIRES SHALL NOT BE TAPED TOGETHER INSIDE THE CONDUIT.
2. NO SPLICES ARE ALLOWED BETWEEN POINTS OF CONNECTIONS.
3. A VALVE BOX MUST BE PROVIDED AT ALL UNDERGROUND SPLICE CONNECTIONS.
4. HOT - RED
   COMMON - WHITE
   SPARE HOT - BLACK
   SPARE COMMON - BLUE
   TRACER WIRE - GREEN


TAPE WIRES AT MAXIMUM 10 FEET INTERVALS
LIMIT OF TRENCH
SEE TRENCH DETAIL PER [A/SD/L102]. 24" MIN. DEPTH OF WIRE
TIE A LOOSE 24" MINIMUM LOOP AT ALL CHANGES OF DIRECTIONS GREATER THAN 30°

E SD/L102 IRRIGATION WIRE

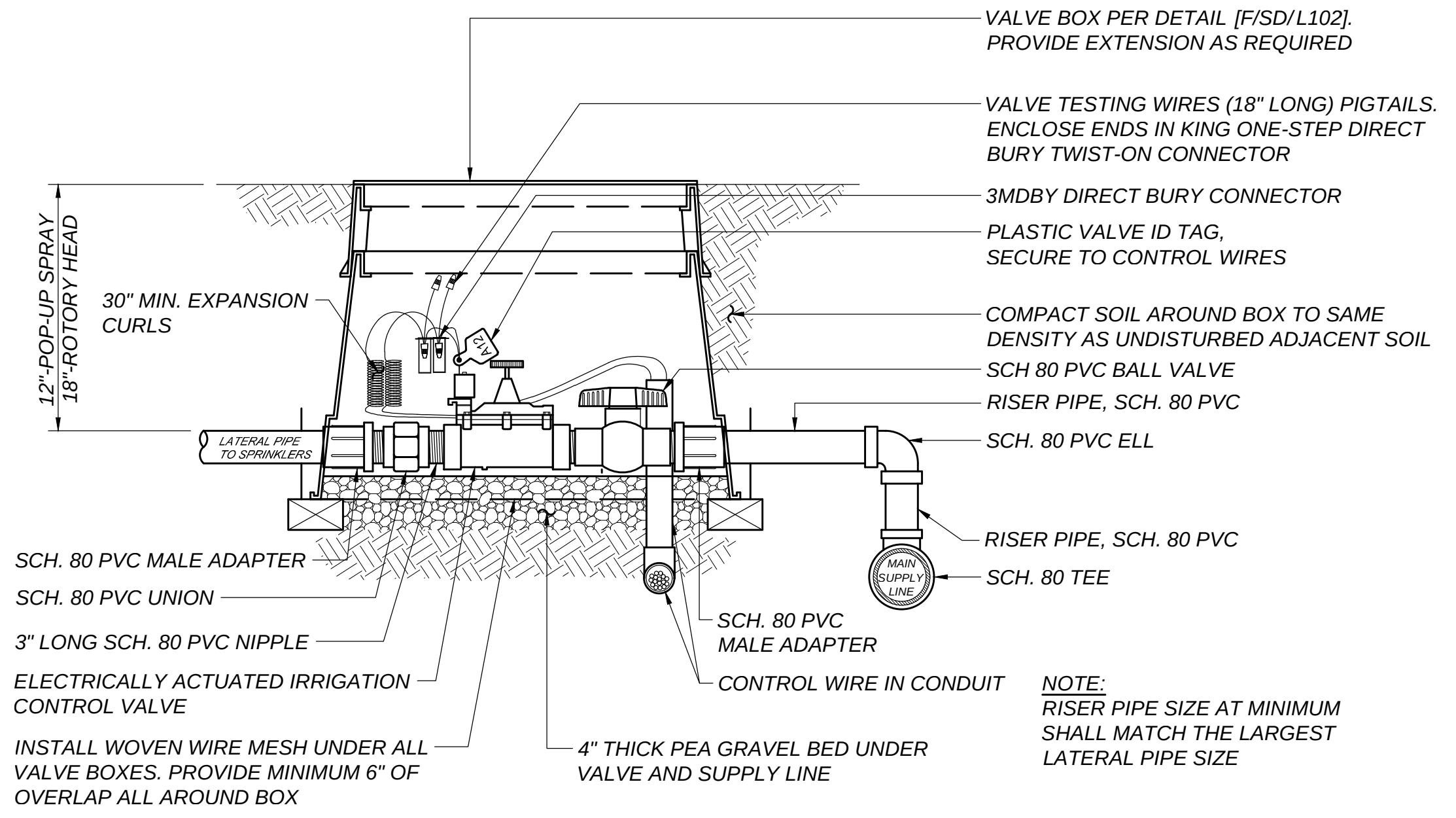
NOT TO SCALE


2" AT SHRUB/GROUND COVER
½" AT SOD TURFGRASS
0" AT SEED/STOLON TURFGRASS
COMPACT SOIL AROUND IRRIGATION BOX TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL
INSTALL VALVE BOX, LID AND EXTENSIONS PER SPECIFICATIONS
6"
INSTALL WOVEN WIRE MESH UNDER ALL VALVE BOXES. PROVIDE MINIMUM 6" OF OVERLAP ALL AROUND BOX.
PROVIDE AND PLACE BRICKS AT EACH CORNER OF VALVE BOX AND MID LENGTH FOR VERTICAL SUPPORT. MINIMUM OF SIX (6) BRICKS PER VALVE BOX.
4" MIN. DEPTH OF PEA GRAVEL, UNLESS NOTED OTHERWISE

NOTE:
PROVIDE A TRAFFIC RATED CONCRETE BOX AND LID FOR ANY BOX LOCATED IN HARDSCAPE PAVEMENT AND SET FLUSH TO FINISHED SURFACE. PROVIDE A 6"X6" CONCRETE COLLAR AROUND THE BOX IF LOCATED IN ASPHALTIC CONCRETE.

F SD/L102 IRRIGATION VALVE BOX

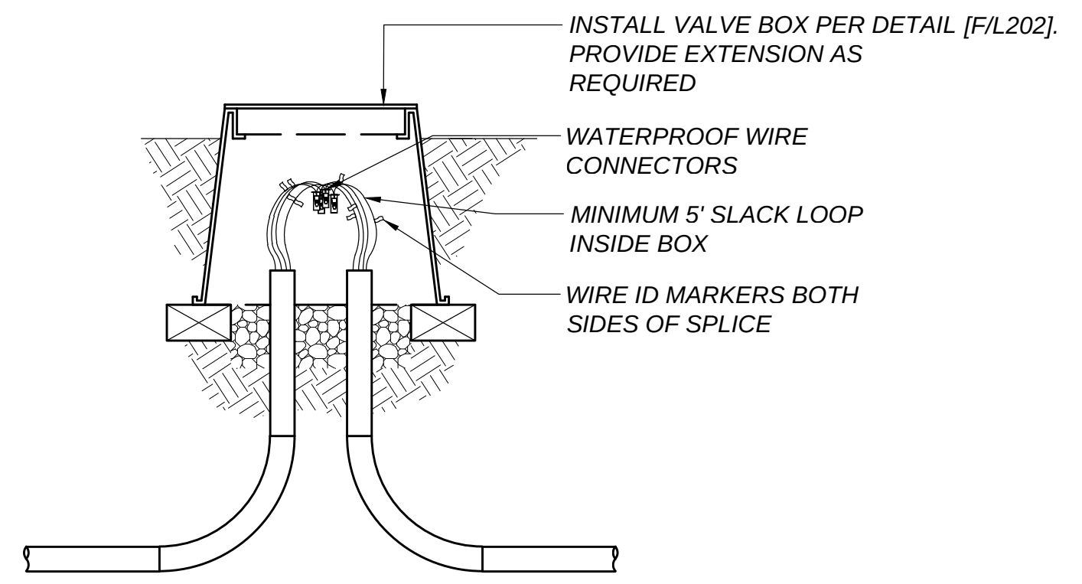
NOT TO SCALE


VALVE BOX PER DETAIL [F/SD/L102]. PROVIDE EXTENSION AS REQUIRED
VALVE TESTING WIRES (18" LONG) PIGTAILS. ENCLOSE ENDS IN KING ONE-STEP DIRECT BURY TWIST-ON CONNECTOR
3MDBY DIRECT BURY CONNECTOR
PLASTIC VALVE ID TAG, SECURE TO CONTROL WIRES
12"-POP-UP SPRAY
18"-ROTORY HEAD
30" MIN. EXPANSION CURLS
COMPACT SOIL AROUND BOX TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL
SCH 80 PVC BALL VALVE
RISER PIPE, SCH. 80 PVC
LATERAL PIPE TO SPRINKLERS
SCH. 80 PVC ELL
RISER PIPE, SCH. 80 PVC
MAIN SUPPLY LINE
SCH. 80 TEE
SCH. 80 PVC MALE ADAPTER
SCH. 80 PVC UNION
3" LONG SCH. 80 PVC NIPPLE
ELECTRICALLY ACTUATED IRRIGATION CONTROL VALVE
INSTALL WOVEN WIRE MESH UNDER ALL VALVE BOXES. PROVIDE MINIMUM 6" OF OVERLAP ALL AROUND BOX
SCH. 80 PVC MALE ADAPTER
CONTROL WIRE IN CONDUIT
4" THICK PEA GRAVEL BED UNDER VALVE AND SUPPLY LINE

NOTE:
RISER PIPE SIZE AT MINIMUM SHALL MATCH THE LARGEST LATERAL PIPE SIZE

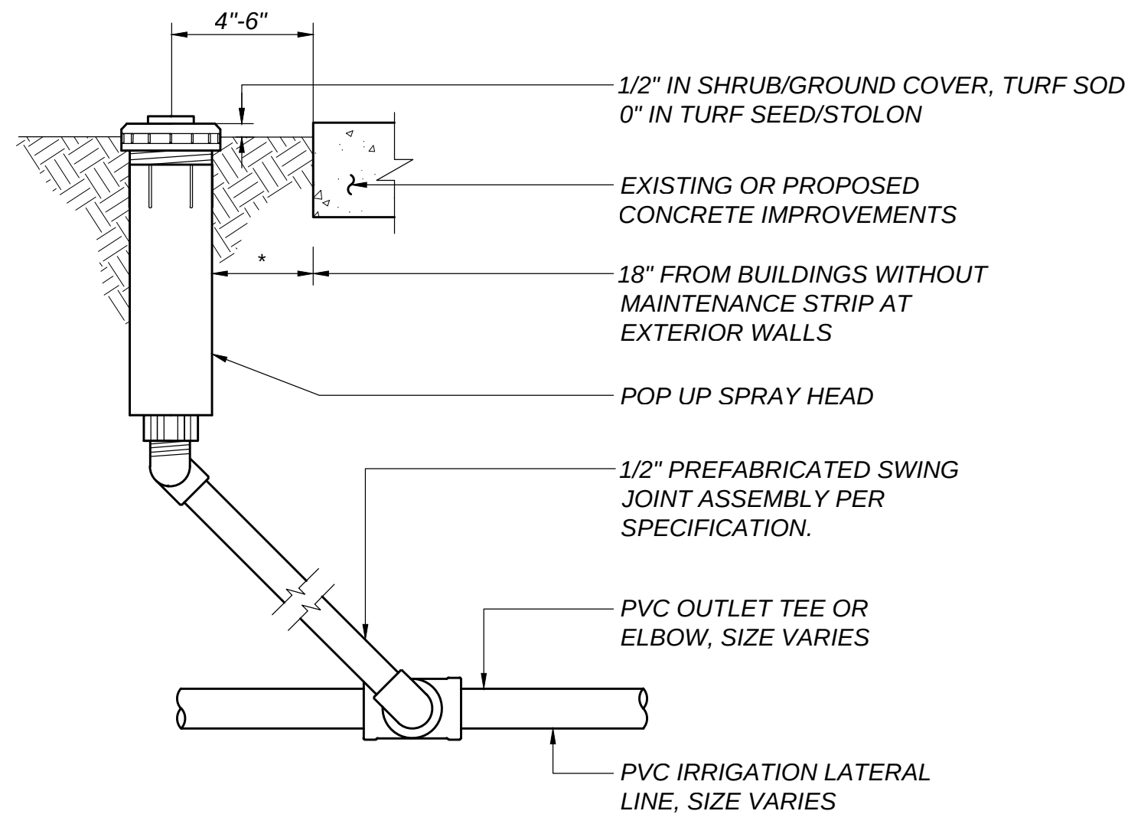
G SD/L102 REMOTE CONTROL VALVE WITH BALL VALVE - GLOBE

NOT TO SCALE


INSTALL VALVE BOX PER DETAIL [F/L202]. PROVIDE EXTENSION AS REQUIRED
WATERPROOF WIRE CONNECTORS
MINIMUM 5' SLACK LOOP INSIDE BOX
WIRE ID MARKERS BOTH SIDES OF SPLICE

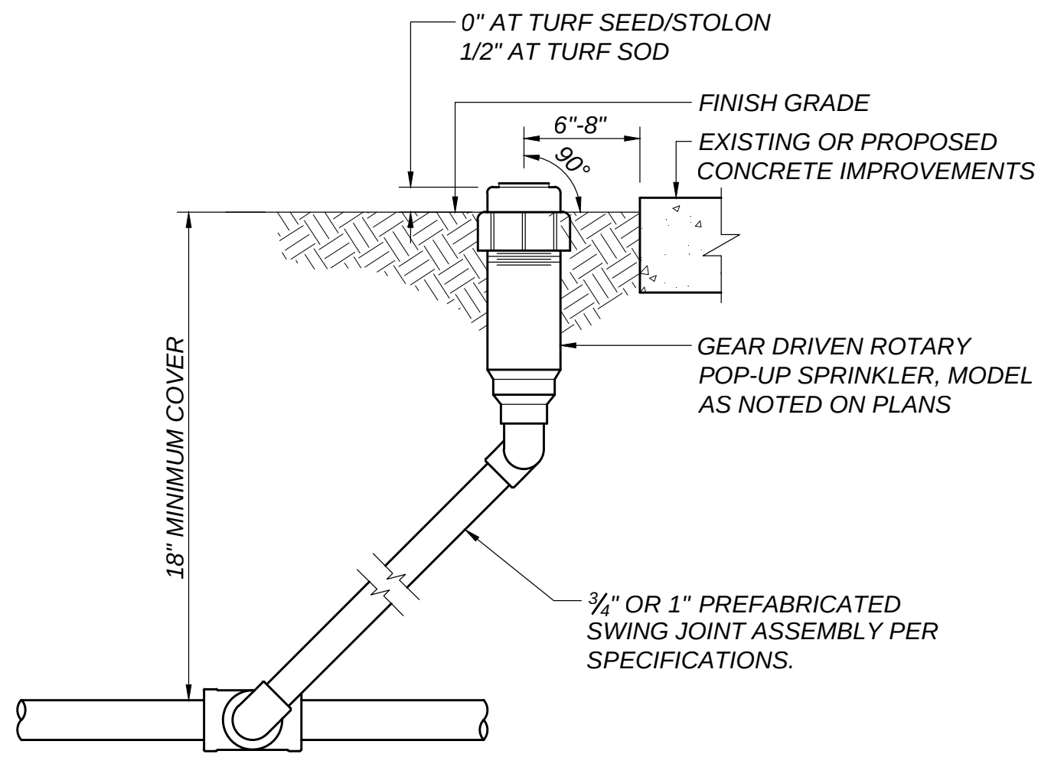
H SD/L102 SPLICEBOX

NOT TO SCALE


4"-6"
1/2" IN SHRUB/GROUND COVER, TURF SOD
0" IN TURF SEED/STOLON
EXISTING OR PROPOSED CONCRETE IMPROVEMENTS
*
18" FROM BUILDINGS WITHOUT MAINTENANCE STRIP AT EXTERIOR WALLS
POP UP SPRAY HEAD
1/2" PREFABRICATED SWING JOINT ASSEMBLY PER SPECIFICATION.
PVC OUTLET TEE OR ELBOW, SIZE VARIES
PVC IRRIGATION LATERAL LINE, SIZE VARIES

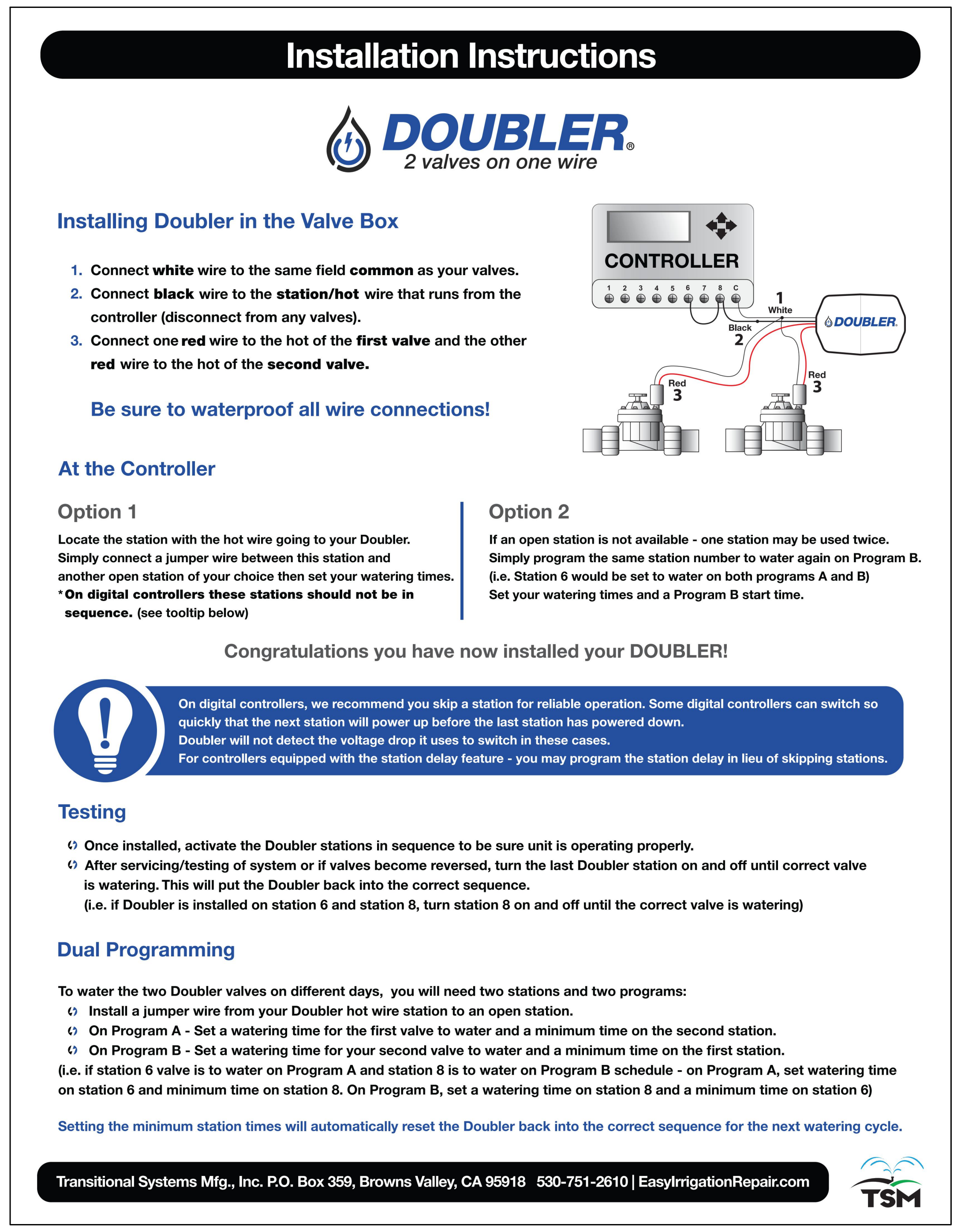
I SD/L102 POP-UP SPRAY

NOT TO SCALE


0" AT TURF SEED/STOLON
1/2" AT TURF SOD
FINISH GRADE
6"-8"
90°
EXISTING OR PROPOSED CONCRETE IMPROVEMENTS
18" MINIMUM COVER
GEAR DRIVEN ROTARY POP-UP SPRINKLER, MODEL AS NOTED ON PLANS
¾" OR 1" PREFABRICATED SWING JOINT ASSEMBLY PER SPECIFICATIONS.

J SD/L102 POP-UP ROTOR

NOT TO SCALE



Installation Instructions

DOUBLER®
2 valves on one wire

Installing Doubler in the Valve Box

1. Connect **white** wire to the same field **common** as your valves.
2. Connect **black** wire to the **station/hot** wire that runs from the controller (disconnect from any valves).
3. Connect one **red** wire to the hot of the **first valve** and the other **red** wire to the hot of the **second valve.**

Be sure to waterproof all wire connections!

At the Controller

Option 1

Locate the station with the hot wire going to your Doubler. Simply connect a jumper wire between this station and another open station of your choice then set your watering times.
***On digital controllers these stations should not be in sequence.** (see tooltip below)

Option 2

If an open station is not available - one station may be used twice. Simply program the same station number to water again on Program B. (i.e. Station 6 would be set to water on both programs A and B)
Set your watering times and a Program B start time.

Congratulations you have now installed your DOUBLER!

On digital controllers, we recommend you skip a station for reliable operation. Some digital controllers can switch so quickly that the next station will power up before the last station has powered down.
Doubler will not detect the voltage drop it uses to switch in these cases.
For controllers equipped with the station delay feature - you may program the station delay in lieu of skipping stations.

Testing

- Once installed, activate the Doubler stations in sequence to be sure unit is operating properly.
- After servicing/testing of system or if valves become reversed, turn the last Doubler station on and off until correct valve is watering. This will put the Doubler back into the correct sequence.
  (i.e. if Doubler is installed on station 6 and station 8, turn station 8 on and off until the correct valve is watering)

Dual Programming

To water the two Doubler valves on different days, you will need two stations and two programs:
- Install a jumper wire from your Doubler hot wire station to an open station.
- On Program A - Set a watering time for the first valve to water and a minimum time on the second station.
- On Program B - Set a watering time for your second valve to water and a minimum time on the first station.

(i.e. if station 6 valve is to water on Program A and station 8 is to water on Program B schedule - on Program A, set watering time on station 6 and minimum time on station 8. On Program B, set a watering time on station 8 and a minimum time on station 6)

Setting the minimum station times will automatically reset the Doubler back into the correct sequence for the next watering cycle.

Transitional Systems Mfg., Inc. P.O. Box 359, Browns Valley, CA 95918 530-751-2610 | EasyIrrigationRepair.com

TSM

K SD/L102 DOUBLER INSTALLATION

WATER EFFICIENT LANDSCAPE WORKSHEET
Educational - DSA PR 15-03

Project: Community Day School Modernization
Location: 1730 E Brookdale Dr, Merced, CA 95340
ETo Reference (MWELO-Apdx. A): Clovis

MAWA = MAXIMUM APPLIED WATER ALLOWANCE (1,000 GALLONS)

TOTAL NEW BUILDING FOOTPRINT	0	SF	(1,600 sf is threshold for inclusion)
75% OF BLDG. SF REQ'D LANDSCAPE	0	SF	
EXIST. IRRIGATION REMOVED FROM SERVICE	3,398	SF	
REGULAR LANDSCAPE AREA	9,986	SF	(landscape area >500 sf)
SPECIAL LANDSCAPE AREA (SLA)	0	SF	
TOTAL PROPOSED LANDSCAPE AREA (LA)	9,986	SF	
TOTAL OVER (UNDER) REQUIRED AREA	13,384	SF	

NORMAL YEAR REFERENCE	ANNUAL
EVAPOTRANSPIRATION (ETo)	55.7
EFFECTIVE PRECIPITATION (25% OF ANNUAL)	0.0
ADJUSTED EVAPOTRANSPIRATION	55.7

MAWA=(ETo) x (0.62) [(0.65 x LA)+(0.35 x SLA)]	ANNUAL		2015 DWR/DSA Update
MAX. APPLIED WATER ALLOWANCE	**224.2**	K Gallons	
TOTAL IN ACRE/FT	0.7		
TOTAL IN CCF	299.7		

ETWU = ESTIMATED TOTAL WATER USE (1,000 GALLONS)

LANDSCAPE HYDROZONE TYPES	9,986	HA	PF	IE	ETAF
MIXED PLANTING (L)	9,986	SF	0.3	0.81	0.37
MIXED PLANTING (M)	0	SF	0.5	0.81	0.62
WARM-SEASON TURFGRASS (MH)	0	SF	0.6	0.75	0.80
SLA - RECREATIONAL/RECYCED WATER USE	0	SF	0.6	0.75	0.80

AVERAGE REGULAR ETAF: 0.37
MAXIMUM AVERAGE REGULAR ETAF: 0.65
AVERAGE SITEWIDE ETAF: 0.37

ETWU=(ETo) x (0.62)x [(HA x PF/IE) + SLA]	ANNUAL	
MIXED PLANTING (L)	127.7	
MIXED PLANTING (M)	0.0	
WARM-SEASON TURFGRASS (M)	0.0	
SLA - RECREATIONAL/RECYCED WATER USE	0.0	
ESTIMATED TOTAL WATER USE	**127.7**	K Gallons
TOTAL IN ACRE/FT	0.4	
TOTAL IN CCF	170.8	

typical IE coeficients	
0.75	overhead sprinklers
0.81	drip & bubblers

ETWU AS A PERCENT OF MAWA: 57%

P:\225\225-0385_Documents\Calculations\225385-WaterUseCalcs 11/11/2025

IRRIGATION SYSTEM OBSERVATION LOG:

ITEM NO.	WORK ITEM DESCRIPTION	REVIEWED & ACCEPTED BY OWNER'S REPRESENTATIVE		DATE
		PRINT NAME	SIGNATURE	
IR-1	EXISTING SYSTEM OPERATION & PRESSURE CHECK			
IR-2	PIPING/WIRE SLEEVES UNDER PAVEMENT			
IR-3	MAIN LINE INSTALLATION & PRESSURE TEST			
IR-4	VALVE INSTALLATIONS			
IR-5	IRRIGATION COVERAGE PRIOR TO PLANTING			
IR-6	CONTROL EQUIPMENT INSTALLATION			
IR-7	BOOSTER PUMP INSTALLATION & START-UP (MANUF.)			
IR-8	FINAL SYSTEM OPERATION REVIEW			

NOTES: THE ORIGINAL VERSION OF THIS LOG SHALL BE MAINTAINED ON THE AS-BUILT RECORD DRAWING SET.
WORK ITEMS MAY NOT BE REVIEWED IF PRIOR WORK ITEMS HAVE NOT BEEN ACCEPTED.
IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE OWNER'S REPRESENTATIVE IS NOTIFIED OF THESE MILESTONE WITNESS POINTS.

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

General Notes

Blair, Church & Flynn
Consulting Engineers
451 Clovis Avenue,
Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

LICENSED LANDSCAPE ARCHITECT
IAN THOMPSON No. 7063
12/31/26 Renewal Date
02/05/26 Date
STATE OF CALIFORNIA

Consultant

Community Day School Modernization
Merced City School District
Merced, CA

Project

SITE DEVELOPMENT
IRRIGATION DETAILS

Drawing

darden architects
ARCHITECTURE
PLANNING
INTERIORS
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

LICENSED ARCHITECT
GRANT E. DODSON
No. C-20,307
Ren. 6-30-27
STATE OF CALIFORNIA

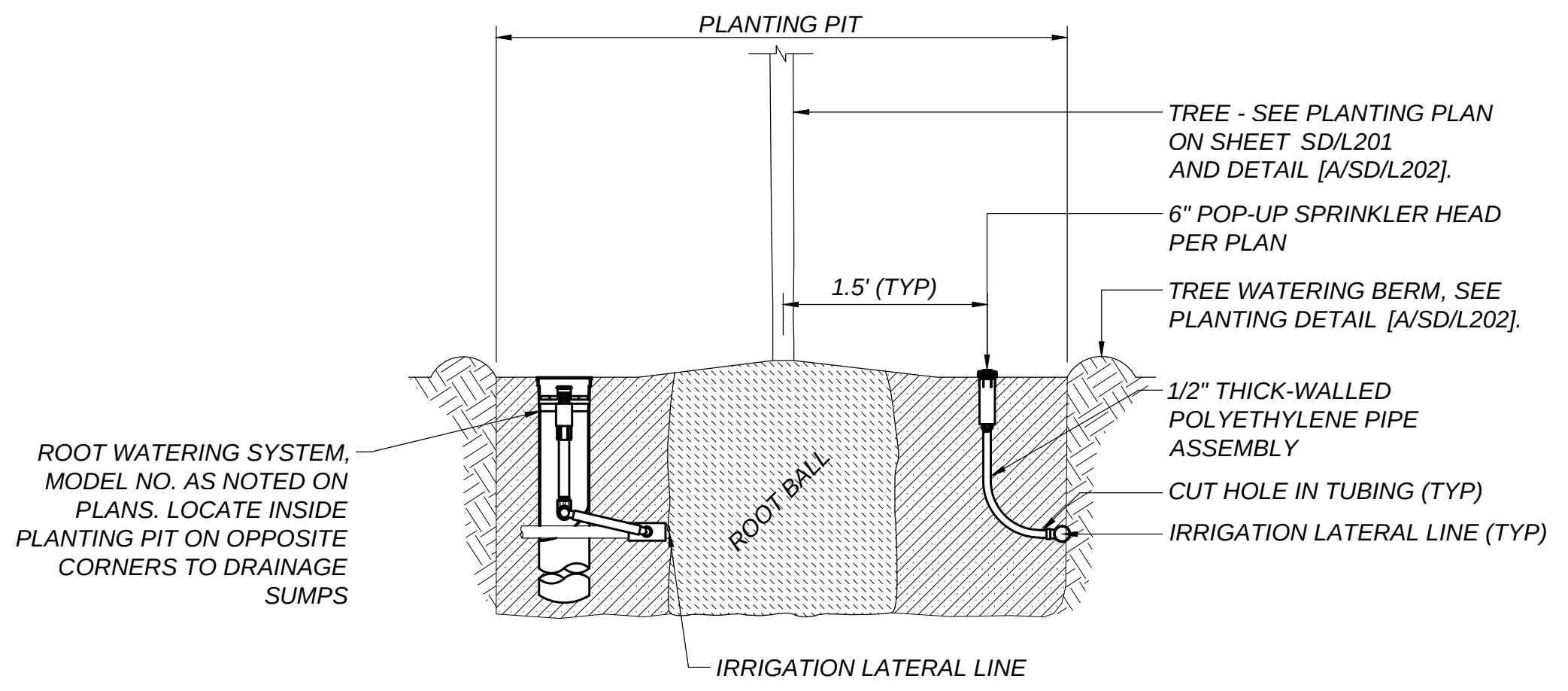
Architect

No.	Revision/Submission	Date

Revision

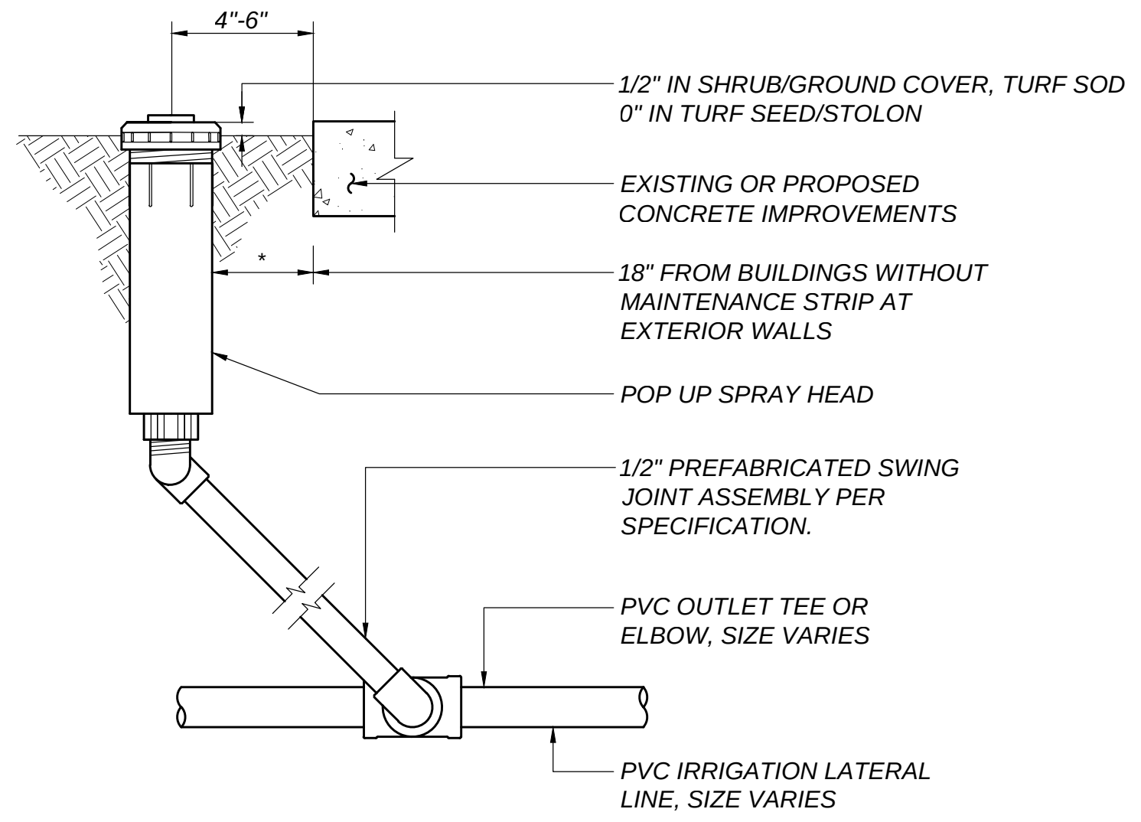
	Designed By: GB	
Scale: As Indicated	Drawn By: GB	SD/L102
Project Number: 2533	Checked By: IT	
Date: 2/9/2026	Reviewed By: JDB	Sheet: ______ of: ______

Drawing: P:\225\225-0385\Site\ProductionDrawings\225385_irdt01.dwg; L102 – BCF.ctb
Plot by: dgaona Feb 05, 2026 – 4:03pm


PLANTING PIT
TREE - SEE PLANTING PLAN ON SHEET SD/L201 AND DETAIL [A/SD/L202].
6" POP-UP SPRINKLER HEAD PER PLAN
1.5' (TYP)
TREE WATERING BERM, SEE PLANTING DETAIL [A/SD/L202].
1/2" THICK-WALLED POLYETHYLENE PIPE ASSEMBLY
CUT HOLE IN TUBING (TYP)
IRRIGATION LATERAL LINE (TYP)
ROOT WATERING SYSTEM, MODEL NO. AS NOTED ON PLANS. LOCATE INSIDE PLANTING PIT ON OPPOSITE CORNERS TO DRAINAGE SUMPS
ROOT BALL
IRRIGATION LATERAL LINE

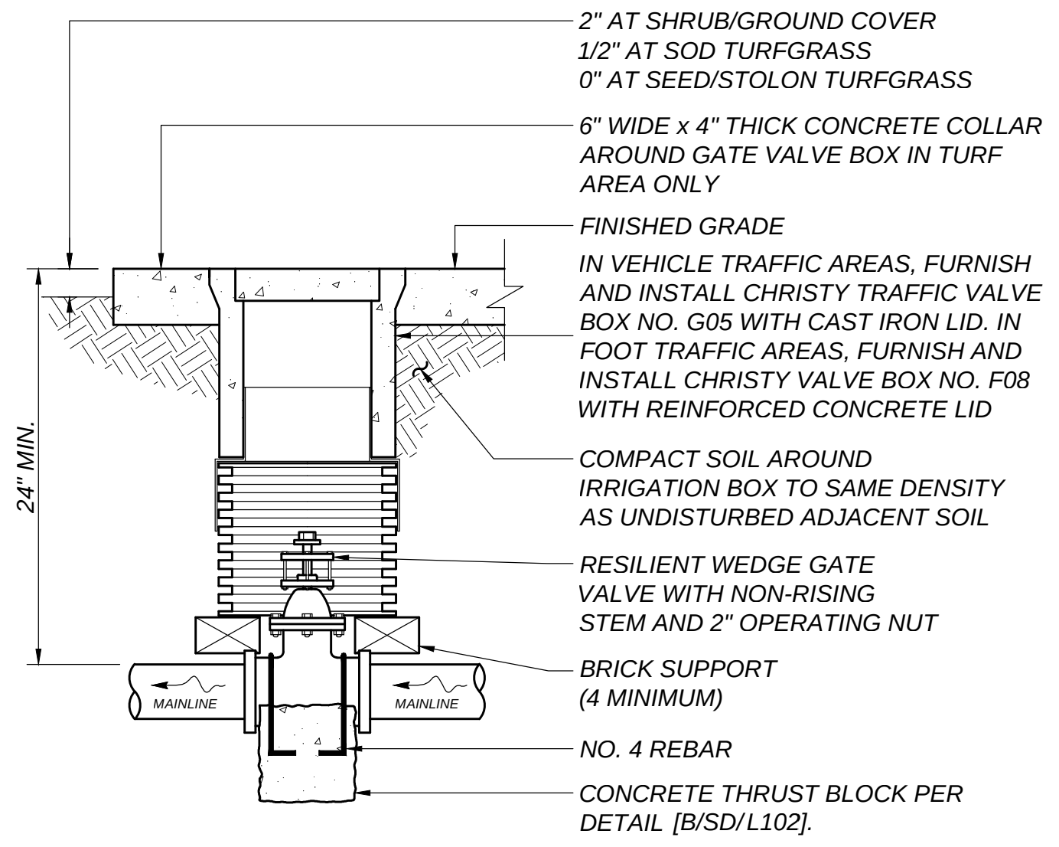
A SD/L103 TREE BUBBLERS

NOT TO SCALE


4"-6"
1/2" IN SHRUB/GROUND COVER, TURF SOD
0" IN TURF SEED/STOLON
EXISTING OR PROPOSED CONCRETE IMPROVEMENTS
*
18" FROM BUILDINGS WITHOUT MAINTENANCE STRIP AT EXTERIOR WALLS
POP UP SPRAY HEAD
1/2" PREFABRICATED SWING JOINT ASSEMBLY PER SPECIFICATION.
PVC OUTLET TEE OR ELBOW, SIZE VARIES
PVC IRRIGATION LATERAL LINE, SIZE VARIES

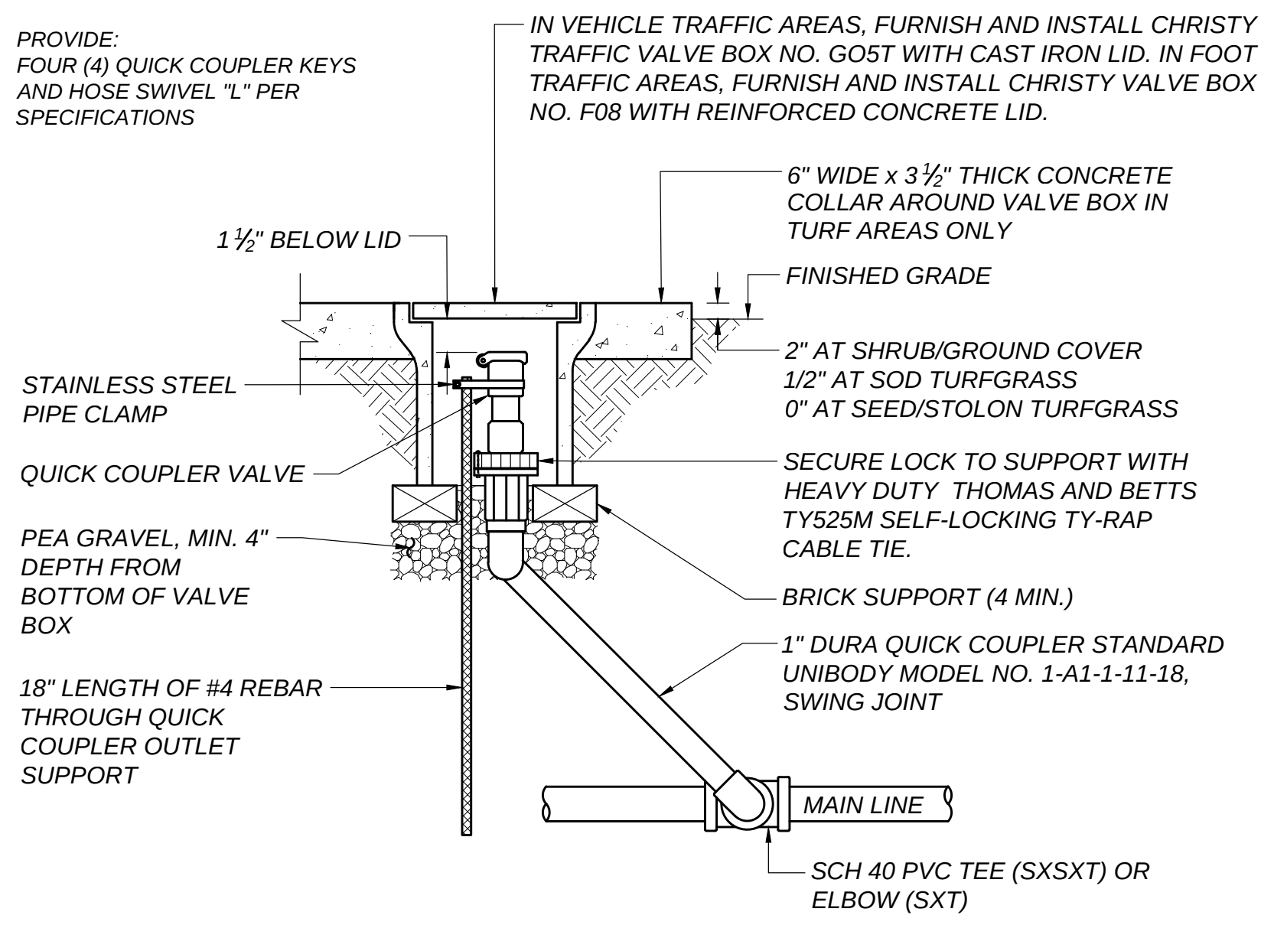
B SD/L103 POP-UP SPRAY

NOT TO SCALE


2" AT SHRUB/GROUND COVER
1/2" AT SOD TURFGRASS
0" AT SEED/STOLON TURFGRASS
6" WIDE x 4" THICK CONCRETE COLLAR AROUND GATE VALVE BOX IN TURF AREA ONLY
FINISHED GRADE
IN VEHICLE TRAFFIC AREAS, FURNISH AND INSTALL CHRISTY TRAFFIC VALVE BOX NO. G05 WITH CAST IRON LID. IN FOOT TRAFFIC AREAS, FURNISH AND INSTALL CHRISTY VALVE BOX NO. F08 WITH REINFORCED CONCRETE LID
24" MIN.
COMPACT SOIL AROUND IRRIGATION BOX TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL
RESILIENT WEDGE GATE VALVE WITH NON-RISING STEM AND 2" OPERATING NUT
BRICK SUPPORT (4 MINIMUM)
MAINLINE
MAINLINE
NO. 4 REBAR
CONCRETE THRUST BLOCK PER DETAIL [B/SD/L102].

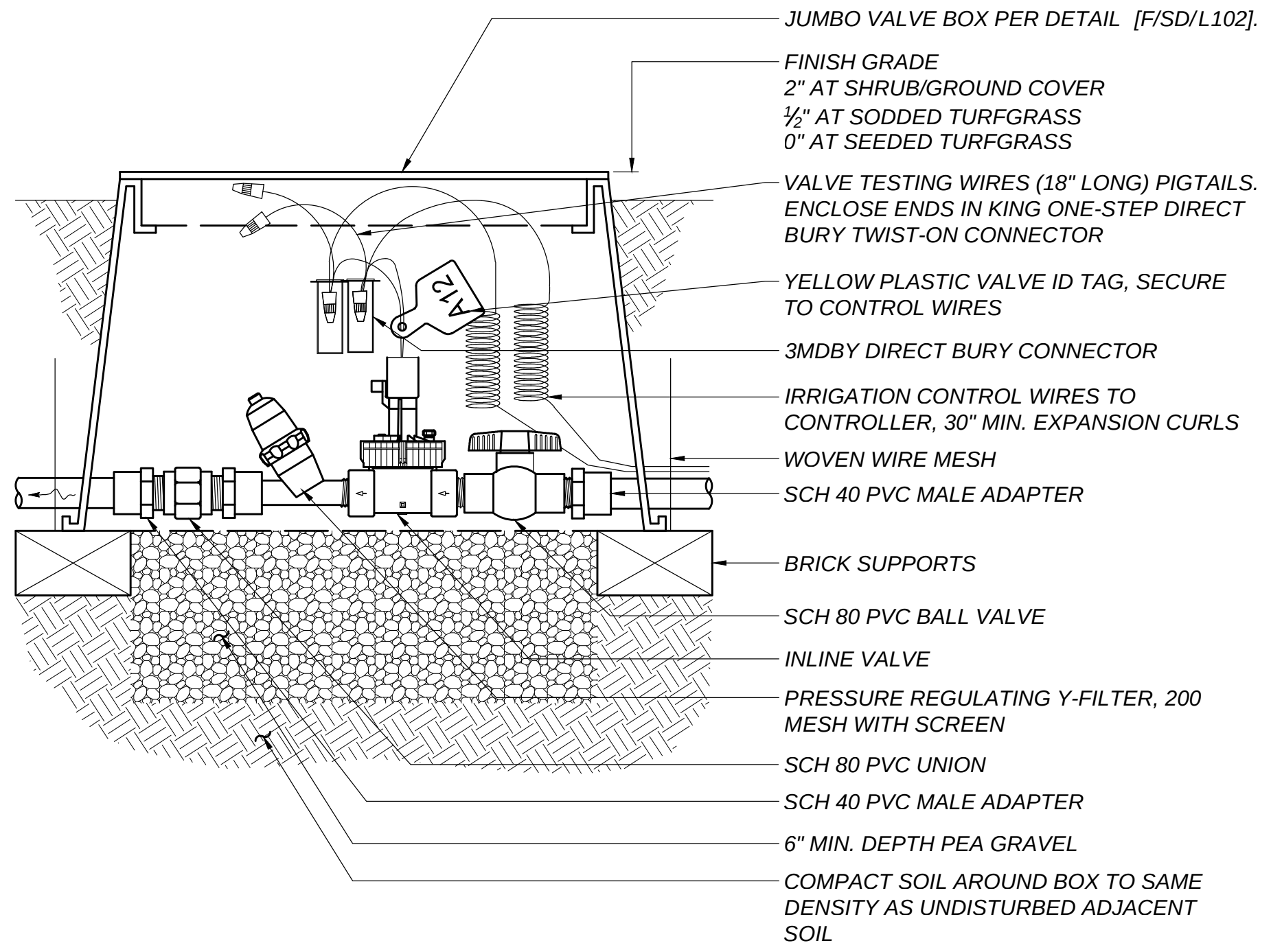
C SD/L103 2" AND LARGER GATE VALVE

NOT TO SCALE


PROVIDE:
FOUR (4) QUICK COUPLER KEYS AND HOSE SWIVEL "L" PER SPECIFICATIONS
IN VEHICLE TRAFFIC AREAS, FURNISH AND INSTALL CHRISTY TRAFFIC VALVE BOX NO. GO5T WITH CAST IRON LID. IN FOOT TRAFFIC AREAS, FURNISH AND INSTALL CHRISTY VALVE BOX NO. F08 WITH REINFORCED CONCRETE LID.
6" WIDE x 3½" THICK CONCRETE COLLAR AROUND VALVE BOX IN TURF AREAS ONLY
1½" BELOW LID
FINISHED GRADE
2" AT SHRUB/GROUND COVER
1/2" AT SOD TURFGRASS
0" AT SEED/STOLON TURFGRASS
STAINLESS STEEL PIPE CLAMP
QUICK COUPLER VALVE
SECURE LOCK TO SUPPORT WITH HEAVY DUTY THOMAS AND BETTS TY525M SELF-LOCKING TY-RAP CABLE TIE.
PEA GRAVEL, MIN. 4" DEPTH FROM BOTTOM OF VALVE BOX
BRICK SUPPORT (4 MIN.)
1" DURA QUICK COUPLER STANDARD UNIBODY MODEL NO. 1-A1-1-11-18, SWING JOINT
18" LENGTH OF #4 REBAR THROUGH QUICK COUPLER OUTLET SUPPORT
MAIN LINE
SCH 40 PVC TEE (SXSXT) OR ELBOW (SXT)

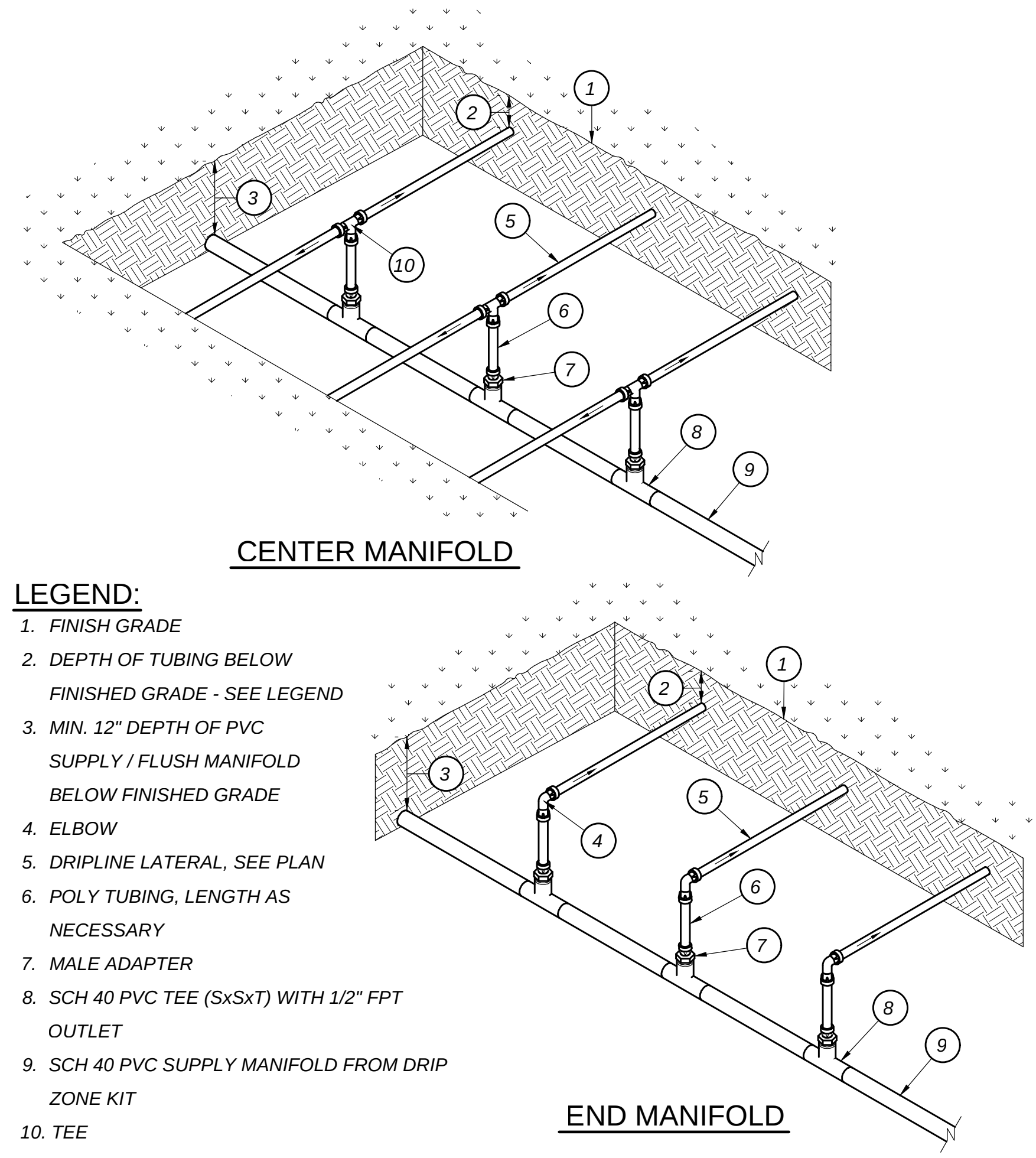
D SD/L103 QUICK COUPLER VALVE

NOT TO SCALE


JUMBO VALVE BOX PER DETAIL [F/SD/L102].
FINISH GRADE
2" AT SHRUB/GROUND COVER
½" AT SODDED TURFGRASS
0" AT SEEDED TURFGRASS
VALVE TESTING WIRES (18" LONG) PIGTAILS. ENCLOSE ENDS IN KING ONE-STEP DIRECT BURY TWIST-ON CONNECTOR
A12
YELLOW PLASTIC VALVE ID TAG, SECURE TO CONTROL WIRES
3MDBY DIRECT BURY CONNECTOR
IRRIGATION CONTROL WIRES TO CONTROLLER, 30" MIN. EXPANSION CURLS
WOVEN WIRE MESH
SCH 40 PVC MALE ADAPTER
BRICK SUPPORTS
SCH 80 PVC BALL VALVE
INLINE VALVE
PRESSURE REGULATING Y-FILTER, 200 MESH WITH SCREEN
SCH 80 PVC UNION
SCH 40 PVC MALE ADAPTER
6" MIN. DEPTH PEA GRAVEL
COMPACT SOIL AROUND BOX TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL

E SD/L103 DRIP ZONE ASSEMBLY

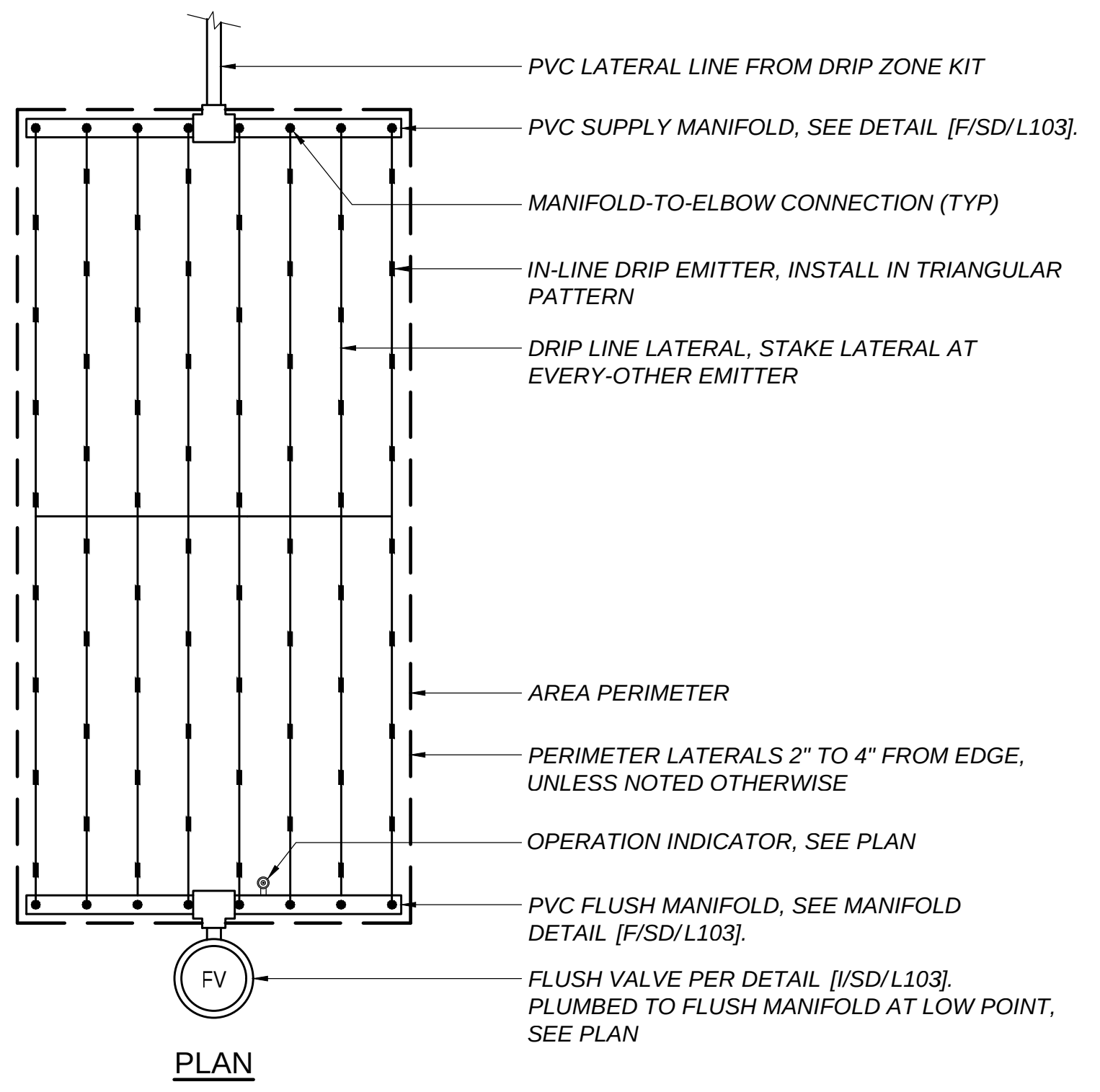
NOT TO SCALE



LEGEND:
1. FINISH GRADE
2. DEPTH OF TUBING BELOW FINISHED GRADE - SEE LEGEND
3. MIN. 12" DEPTH OF PVC SUPPLY / FLUSH MANIFOLD BELOW FINISHED GRADE
4. ELBOW
5. DRIPLINE LATERAL, SEE PLAN
6. POLY TUBING, LENGTH AS NECESSARY
7. MALE ADAPTER
8. SCH 40 PVC TEE (SxSxT) WITH 1/2" FPT OUTLET
9. SCH 40 PVC SUPPLY MANIFOLD FROM DRIP ZONE KIT
10. TEE

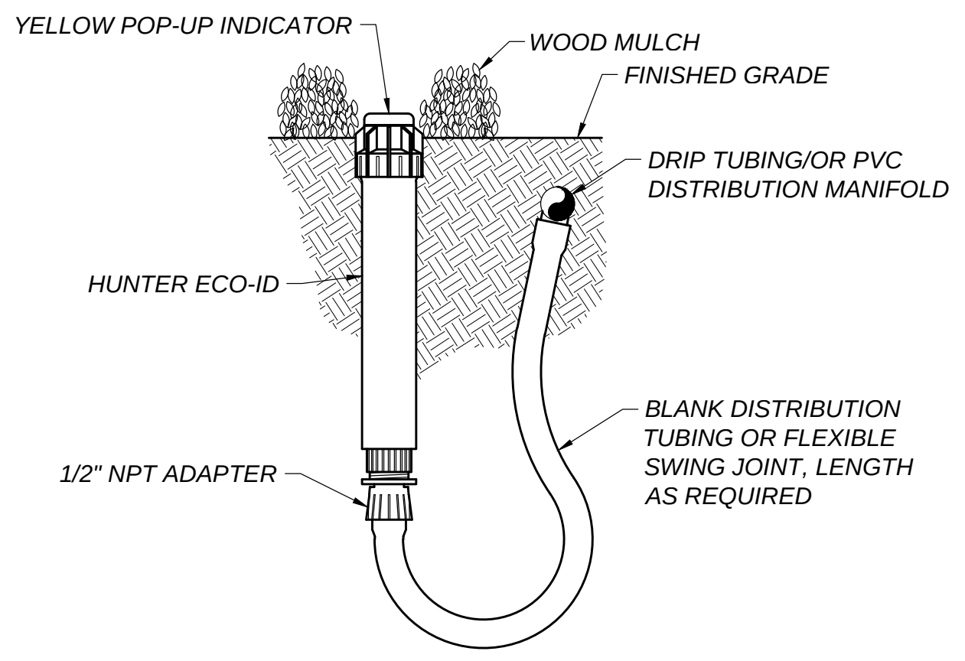
F SD/L103 DRIPLINE MANIFOLD

NOT TO SCALE


PVC LATERAL LINE FROM DRIP ZONE KIT
PVC SUPPLY MANIFOLD, SEE DETAIL [F/SD/L103].
MANIFOLD-TO-ELBOW CONNECTION (TYP)
IN-LINE DRIP EMITTER, INSTALL IN TRIANGULAR PATTERN
DRIP LINE LATERAL, STAKE LATERAL AT EVERY-OTHER EMITTER
AREA PERIMETER
PERIMETER LATERALS 2" TO 4" FROM EDGE, UNLESS NOTED OTHERWISE
OPERATION INDICATOR, SEE PLAN
PVC FLUSH MANIFOLD, SEE MANIFOLD DETAIL [F/SD/L103].
FV
FLUSH VALVE PER DETAIL [I/SD/L103]. PLUMBED TO FLUSH MANIFOLD AT LOW POINT, SEE PLAN
PLAN

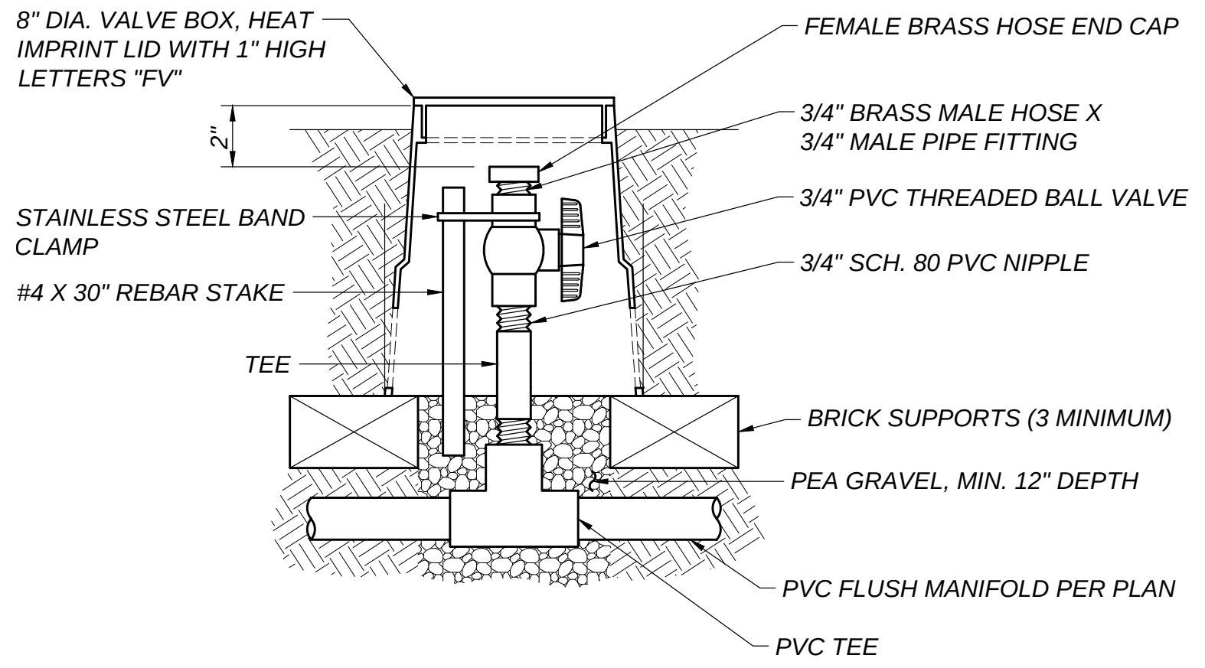
G SD/L103 DRIPLINE LAYOUT SCHEMATIC

NOT TO SCALE


YELLOW POP-UP INDICATOR
WOOD MULCH
FINISHED GRADE
DRIP TUBING/OR PVC DISTRIBUTION MANIFOLD
HUNTER ECO-ID
BLANK DISTRIBUTION TUBING OR FLEXIBLE SWING JOINT, LENGTH AS REQUIRED
1/2" NPT ADAPTER

H SD/L103 HUNTER ECO-INDICATOR

NOT TO SCALE


8" DIA. VALVE BOX, HEAT IMPRINT LID WITH 1" HIGH LETTERS "FV"
FEMALE BRASS HOSE END CAP
3/4" BRASS MALE HOSE X 3/4" MALE PIPE FITTING
2"
3/4" PVC THREADED BALL VALVE
STAINLESS STEEL BAND CLAMP
3/4" SCH. 80 PVC NIPPLE
#4 X 30" REBAR STAKE
TEE
BRICK SUPPORTS (3 MINIMUM)
PEA GRAVEL, MIN. 12" DEPTH
PVC FLUSH MANIFOLD PER PLAN
PVC TEE

I SD/L103 DRIPLINE FLUSH VALVE ASSEMBLY

NOT TO SCALE

GENERAL IRRIGATION NOTES:

1. ALL ITEMS IN THE LEGEND ARE TO BE FURNISHED AND INSTALLED, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL FURNISH THE ARTICLES, EQUIPMENT, MATERIALS OR PROCESSES SPECIFIED BY NAME. NO SUBSTITUTION WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE DESIGN ENGINEER. (ALL MATERIAL REQUIRED SHALL BE NEW AND OF THE BEST QUALITY AVAILABLE)
2. THE DESIGN ENGINEER RESERVES THE RIGHT TO REJECT ANY MATERIAL OR WORK WHICH DOES NOT CONFORM TO THE CONTRACT PLANS AND SPECIFICATIONS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE DESIGN ENGINEER.
3. PRIOR TO STARTING WORK, THE CONTRACTOR SHALL VERIFY THE EXISTING SYSTEM COMPONENTS' LOCATION, SIZES AND ROUTING FOR BACKFLOW PREVENTERS, CONTROLLERS, MAIN AND LATERAL PIPING, VALVES, SPRINKLER HEADS AND CONTROL WIRE; AND SHALL CONFIRM THEIR OPERATIONAL STATUS IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL ALSO VERIFY THE AVAILABLE STATIC PRESSURE AT THE POINT-OF-CONNECTION. FAILURE TO NOTIFY THE OWNER'S REPRESENTATIVE BEFORE STARTING WORK OF ANY DEVIATION FROM THE INFORMATION SHOWN ON THE CONTRACT DOCUMENTS, OR NECESSARY REPAIRS TO THE EXISTING SYSTEM, SHALL MAKE THE CONTRACTOR RESPONSIBLE TO PROVIDE, AT HIS OWN EXPENSE, ANY CORRECTIVE WORK OR COMPONENTS NECESSARY FOR A FULLY FUNCTIONAL SYSTEM WITH FULL COVERAGE.
4. THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND KEEP ANY EXISTING IRRIGATION SYSTEM SCHEDULED TO REMAIN OPERATIONAL AT ALL TIMES DURING THE COURSE OF THIS WORK. THE CONTRACTOR SHALL REPLACE ANY PLANTS DEAD OR DISTRESSED DUE TO THE INTERRUPTION OF EXISTING IRRIGATION SCHEDULES AND SHALL PERFORM ALL WORK NECESSARY TO MAINTAIN THE EXISTING SYSTEM'S OPERATIONAL.
5. THE CONTRACTOR IS RESPONSIBLE TO LOCATE AND PROTECT ALL EXISTING UTILITIES. UTILITIES SHOWN ARE FOR THE CONTRACTOR'S AWARENESS AND NO SURVEY HAS BEEN COMPLETE TO VERIFY THE ACCURACY OF THE UTILITIES SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO REPAIR ANY DAMAGED UTILITIES CAUSED BY CONSTRUCTION ACTIVITIES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL DIMENSIONS SHOWN AND TO ADJUST SAID DIMENSIONS TO FIT SITE CONDITIONS AND ACTUAL EQUIPMENT INSTALLED.
7. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL THE IRRIGATION FACILITIES AS INDICATED ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS MIGHT NOT HAVE BEEN CONSIDERED IN THE DESIGN. SUCH OBSTRUCTIONS OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER.
8. THE IRRIGATION PLAN IS DIAGRAMMATIC. ALL PIPING, VALVES, AND HEADS SHALL BE LOCATED IN PLANTING AREAS WHENEVER POSSIBLE.
9. THE CONTRACTOR SHALL PROVIDE ADEQUATE SAFETY MEASURES TO WARN AND PROTECT THE PUBLIC, OTHER SITE CONTRACTORS AND HIS WORKERS FROM POSSIBLE INJURY DUE TO HIS CONSTRUCTION EQUIPMENT AND OPERATIONS.
10. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, ETC. WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL HIS WORK, AND PLAN HIS WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO INSTALL THE PROPOSED FACILITIES AND ACCOMMODATE THE SITE CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE DONE TO PROVIDE A COMPLETE AND OPERATIONAL IRRIGATION SYSTEM. ALL WORK TO BE DONE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, LOCAL CODES AND ORDINANCES.
11. VALVES SHALL BE LOCATED IN SHRUB/GROUND COVER AREAS INSTEAD OF IN TURFGRASS AREAS WHENEVER POSSIBLE. VALVES IN ATHLETIC SPORTS FIELDS SHALL BE LOCATED OUTSIDE OF THE FIELD-OF-PLAY TO THE GREATEST EXTENT POSSIBLE.
12. THE CONTRACTOR SHALL REPLACE ANY EXISTING PLANTS SCHEDULED TO REMAIN (SEE LANDSCAPE PLANS) THAT ARE DAMAGED BY THIS WORK WITH NEW PLANTS OF THE SAME SPECIES/VARIETY AND SIZE AS THE ORIGINAL.
13. ANY EXISTING TURFGRASS REMOVED FOR THIS WORK SHALL BE REPLANTED IF VIABLE, OR NEW SOD OF THE SAME SPECIES/VARIETY INSTALLED. THE UPPER 6 INCHES OF THE COMPACTED TRENCH BACKFILL SHALL BE CONDITIONED PER LANDSCAPE SPECIFICATIONS PRIOR TO SOD INSTALLATION. THE NEW SOD SURFACE SHALL BE FLUSH TO THE ADJACENT TURFGRASS WITHOUT HUMPS OR DEPRESSIONS.
14. INSTALL SLEEVES UNDER ALL ASPHALT/CONCRETE IMPROVEMENTS. SLEEVES SHALL BE PVC SCH. 40 PVC OR SDR 35 AND TWICE THE DIAMETER OF THE PIPE UNLESS OTHERWISE NOTED. CONTROL WIRING SHALL BE SLEEVED IN 2" SCH 40 PVC UNLESS OTHERWISE NOTED. MINIMUM DEPTH OF SLEEVES UNDER ALL ASPHALT/CONCRETE IMPROVEMENTS IS 18" BELOW SUBGRADE OR 24" BELOW FINISHED GRADE, WHICHEVER IS GREATER.
15. CONTRACTOR SHALL SAWCUT TO EXISTING JOINTS. REMOVE AND REPLACE SURFACING (CONCRETE, ASPHALT) AS NECESSARY TO INSTALL THE IRRIGATION SYSTEM.
16. THE CONTRACTOR SHALL PROVIDE AND KEEP AN UP-TO-DATE "RECORD DRAWING" SHOWING ALL CHANGES TO THE ORIGINAL DRAWINGS AND EXACT LOCATIONS OF THE FACILITIES INSTALLED. BEFORE FINAL INSPECTION, THE CONTRACTOR SHALL FURNISH MARKED "RECORD DRAWINGS" TO THE INSPECTOR.
17. THE CONTRACTOR SHALL PROVIDE ADJUSTMENT OF NOZZLE ARC AND RADIUS, INCLUDING ANY ALTERNATE NOZZLE TYPES, NECESSARY TO PROVIDE COMPLETE COVERAGE, TO SUIT ACTUAL SITE CONDITIONS, AND TO MINIMIZE OVERSPRAY ONTO HARDSCAPE, PAVEMENT AND/OR STRUCTURES.
18. CONCRETE ANCHORS OR THRUST BLOCKS SHALL BE PROVIDED ON ALL MAIN LINE PIPING. THEY ARE TO BE LOCATED AT ALL ABRUPT CHANGES IN PIPELINE GRADE, CHANGES IN HORIZONTAL ALIGNMENT, REDUCTION IN PIPE SIZES, END OF LINE AND IN-LINE VALVES TO ABSORB ANY AXIAL THRUST OF THE PIPE. THE PIPE MANUFACTURER'S RECOMMENDATIONS FOR THRUST CONTROL SHALL BE FOLLOWED. THRUST BLOCKS MUST BE FORMED AGAINST UNDISTURBED EARTH.
19. ALL MAIN LINE AND LATERAL LINE PIPES UNDER PAVEMENT SHALL BE PRESSURE TESTED WITH THE VALVES INSTALLED. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT NEEDED. IF ANY LEAKS DEVELOP, THE REPAIRS ARE TO BE MADE AND THE TEST REPEATED UNTIL THE SYSTEM IS PROVEN WATERTIGHT. THE CONTRACTOR IS TO CENTER LOAD THE PIPE AND LEAVE ALL JOINTS EXPOSED FOR INSPECTION. THE PRESSURE TEST SHALL BE OBSERVED AND APPROVED BY THE OWNER'S REPRESENTATIVE. WHEN THE PIPE IS PROVEN WATERTIGHT AND ONLY THEN MAY THE LINE BE BACKFILLED.
20. WIRED CONNECTIONS BETWEEN THE CONTROLLER AND REMOTE CONTROL VALVES SHALL BE MADE WITH ONE CONTINUOUS DIRECT BURIAL WIRE RUN. A VALVE BOX MUST BE PROVIDED AT THE CONTRACTOR'S EXPENSE AT ALL UNDERGROUND SPLICES.
21. ONLY TEFLON TAPE OR AN APPROVED TEFLON PASTE MAY BE USED AS THE SEALING MATERIAL TO MAKE ALL THREADED CONNECTIONS. A MINIMUM OF TWO (2) WRAPS IN THE DIRECTION OF THE THREADS TO BE USED FOR TAPE. NO OTHER PIPE JOINT MATERIAL WILL BE ALLOWED WITHOUT THE WRITTEN AUTHORIZATION FROM THE DESIGN ENGINEER.
22. THE CONTRACTOR SHALL PROVIDE TWO (2) INDIVIDUALLY BOUND SETS OF OPERATION AND MAINTENANCE MANUALS. THE MANUAL SHALL CONTAIN THE FOLLOWING INFORMATION:
    - A. CONTRACTOR'S ADDRESS AND PHONE NUMBER.
    - B. DURATION OF GUARANTEE PERIOD (ONE YEAR AFTER FINAL ACCEPTANCE).
    - C. NAMES, ADDRESSES AND PHONE NUMBERS OF LOCAL MANUFACTURER REPRESENTATIVES.
    - D. COMPLETE SET OF MANUFACTURER'S LITERATURE AND SPECIFICATIONS.
    - E. COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS ON ALL MAJOR EQUIPMENT.
    - F. ISSUE A "CERTIFICATE OF CONSTRUCTION COMPLIANCE" WHICH STATES THAT ALL WORK DONE AND MATERIALS AND EQUIPMENT USED ARE IN CONFORMANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND ALL AUTHORIZED REVISIONS.
    - G. INITIAL ELECTRICAL DATA ON EACH VALVE:
        - (1) OHMMS READING FOR EACH VALVE TAKEN AT THE CONTROLLER.
        - (2) VOLTAGE READING FOR EACH VALVE TAKEN BOTH AT THE CONTROLLER AND AT THE VALVE.
23. THE CONTRACTOR SHALL PROVIDE TWO SETS OF CONTROLLER CHARTS. THE CHARTS TO BE A REDUCED DRAWING OF THE ACTUAL PLANS. THE CHARTS SHALL BE COLORED WITH A DIFFERENT COLOR FOR EACH IRRIGATION CIRCUIT. THE CHARTS SHALL BE COVERED IN A WATERTIGHT ENVELOPE.
24. IRRIGATION LINE TRENCHING AND PIPE INSTALLATION LOCATED WITHIN THE CANOPY DRIP LINE OF EXISTING TREES SHALL BE PERFORMED BY HAND OR BY AIR SPADE WITHOUT CUTTING OR DAMAGING EXISTING ROOTS GREATER THAN ONE INCH IN DIAMETER. SEE EXISTING LANDSCAPE PROTECTION SECTION FOR ADDITIONAL REQUIREMENTS.
25. REPLACE ALL DAMAGED EXISTING VALVE BOXES AND/OR LIDS WITHIN THE AREA OF WORK. ADJUST THE ELEVATION OF ALL EXISTING VALVE BOXES WITHIN THE AREA OF WORK TO FINISH GRADE AS NECESSARY TO COMPLY WITH THE VALVE BOX DETAIL.

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

DRIP SYSTEM IRRIGATION NOTES:

1. ALL ITEMS, ACCESSORIES, FITTINGS, ETC. NECESSARY FOR A COMPLETE AND PROPERLY FUNCTIONING SUB-SURFACE DRIP SYSTEM ARE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR, UNLESS NOTED OTHERWISE.
2. THE EQUIPMENT AND COMPONENTS CALLED OUT ON THE DRAWING LEGEND ARE THE PREFERENCE OF THE OWNER AND ARE SELECTED TO MATCH EQUIPMENT AND COMPONENTS IN USE IN OTHER SIMILAR IRRIGATION SYSTEMS OF THE OWNER.
3. PRIOR TO STARTING WORK, THE CONTRACTOR SHALL VERIFY ANY EXISTING SYSTEM COMPONENTS' LOCATION, SIZES AND ROUTING FOR BACKFLOW PREVENTERS, CONTROLLERS, MAIN AND LATERAL PIPING, VALVES, SPRINKLER HEADS AND CONTROL WIRE; AND SHALL CONFIRM THEIR OPERATIONAL STATUS IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL ALSO VERIFY THE AVAILABLE STATIC PRESSURE AND AVAILABLE SAFE FLOW AT THE POINT-OF-CONNECTION. FAILURE TO NOTIFY THE OWNER'S REPRESENTATIVE AND THE ENGINEER BEFORE STARTING WORK, OF ANY DEVIATION FROM THE INFORMATION SHOWN ON THE CONTRACT DOCUMENTS OR NECESSARY REPAIRS TO THE EXISTING SYSTEM, SHALL MAKE THE CONTRACTOR RESPONSIBLE TO PROVIDE, AT HIS OWN EXPENSE, ANY CORRECTIVE WORK OR COMPONENTS NECESSARY FOR A FULLY FUNCTIONAL SYSTEM WITH FULL COVERAGE.
4. THE IRRIGATION PLAN IS DIAGRAMMATIC. ALL PIPING, VALVES, AND COMPONENTS SHALL BE LOCATED IN PLANTING AREAS, UNLESS NOTED OTHERWISE. VALVES SHALL BE LOCATED IN SHRUB/GROUND COVER AREAS INSTEAD OF IN TURFGRASS AREAS WHENEVER POSSIBLE.
5. INSTALL DRIP EMITTERS IN A TRIANGULAR OR STAGGERED PATTERN AND AT A CONSISTENT DEPTH BELOW GRADE AS SHOWN OR INDICATED IN THE DRAWINGS.
6. STAKE THE EMITTER TUBING USING THE MANUFACTURER'S RECOMMENDED STAKES DIRECTLY OVER EVERY OTHER EMITTER. FOR EXAMPLE, IF THE EMITTERS ARE SPACED AT 18 INCHES O.C., THEN STAKE AT 36 INCHES O.C.
7. PRIOR TO BACKFILLING THE DRIP TUBING AND THE START OF PLANTING OPERATIONS, THE SYSTEM SHALL BE REVIEWED FOR PROPER OPERATION BY THE OWNER'S REPRESENTATIVE.
8. PROGRAM THE CONTROLLER TO OPERATE THE CONTROL VALVE(S) FOR THE DRIP SYSTEM USING THE CONTROLLER'S “CYCLE AND SOAK” FEATURE IN ORDER TO APPLY THE REQUIRED WATER AMOUNT IN THREE EQUAL CYCLES.
9. PRIOR TO THE START OF PLANTING OPERATIONS, THE DRIP SYSTEM SHALL BE OPERATED FOR A FREQUENCY AND DURATION TO ADEQUATELY MOISTEN THE TOPSOIL TO A MINIMIM DEPTH OF 12 INCHES AT ANY LOCATION WITHIN THE PLANTING AREA .
10. THE CONTRACTOR SHALL PROVIDE ONE HUNDRED (100) FEET OF IN-LINE EMITTER TUBING OF THE SAME MODEL AS SPECIFIED, ENOUGH STAKES FOR THE 100 FEET, AND TEN (10) OF EACH TYPE OF FITTINGS USED ON THE PROJECT FOR THE OWNER'S USE AS SPARE PARTS.
11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO KEEP ANY EXISTING IRRIGATION SYSTEM SCHEDULED TO REMAIN OPERATIONAL AT ALL TIMES DURING THE COURSE OF THIS WORK. THE CONTRACTOR SHALL REPLACE ANY PLANTS DEAD OR DISTRESSED DUE TO THE INTERRUPTION OF EXISTING IRRIGATION SCHEDULES, AND SHALL PERFORM ALL WORK NECESSARY TO MAINTAIN THE EXISTING SYSTEM'S OPERATION.
12. THE CONTRACTOR SHALL REPLACE ANY EXISTING PLANTS SCHEDULED TO REMAIN THAT ARE DAMAGED BY THIS WORK WITH NEW PLANTS OF THE SAME SPECIES/VARIETY AND SIZE AS THE ORIGINAL PRIOR TO THE START OF WORK. ANY EXISTING TURFGRASS REMOVED FOR THIS WORK SHALL BE REPLANTED IF VIABLE, OR NEW SOD OF THE SAME SPECIES/VARIETY INSTALLED. THE UPPER 6 INCHES OF THE COMPACTED TRENCH BACKFILL SHALL BE CONDITIONED PER THE PLANTING SPECIFICATIONS PRIOR TO SOD INSTALLATION. THE NEW SOD SURFACE SHALL BE FLUSH TO THE ADJACENT TURFGRASS WITHOUT HUMPS OR DEPRESSIONS.

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12/31/26 Renewal Date
02/05/26 Date

Consultant

Community Day School Modernization
Merced City School District
Merced, CA

Project

SITE DEVELOPMENT
IRRIGATION DETAILS

Drawing

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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

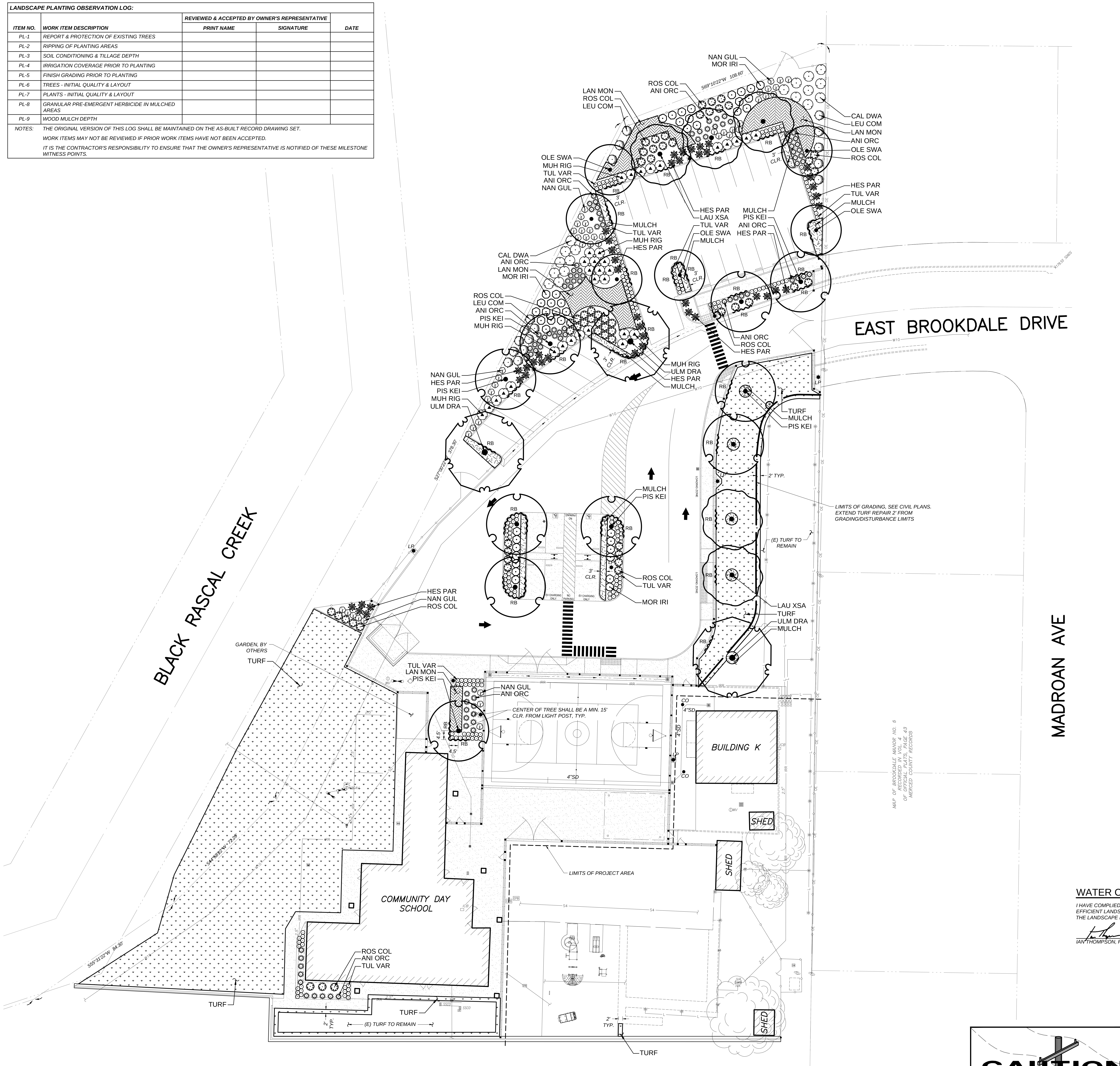
	Designed By: GB	Copyright 2026 Darden Architects
Scale: As Indicated	Drawn By: GB	SD/L103
Project Number: 2533	Checked By: IT	
Date: 2/9/2026	Reviewed By: JDB	Sheet: ________ of: ________

LANDSCAPE PLANTING OBSERVATION LOG:				
		REVIEWED & ACCEPTED BY OWNER'S REPRESENTATIVE		
ITEM NO.	WORK ITEM DESCRIPTION	PRINT NAME	SIGNATURE	DATE
PL-1	REPORT & PROTECTION OF EXISTING TREES			
PL-2	RIPPING OF PLANTING AREAS			
PL-3	SOIL CONDITIONING & TILLAGE DEPTH			
PL-4	IRRIGATION COVERAGE PRIOR TO PLANTING			
PL-5	FINISH GRADING PRIOR TO PLANTING			
PL-6	TREES - INITIAL QUALITY & LAYOUT			
PL-7	PLANTS - INITIAL QUALITY & LAYOUT			
PL-8	GRANULAR PRE-EMERGENT HERBICIDE IN MULCHED AREAS			
PL-9	WOOD MULCH DEPTH			

NOTES: *THE ORIGINAL VERSION OF THIS LOG SHALL BE MAINTAINED ON THE AS-BUILT RECORD DRAWING SET.*

WORK ITEMS MAY NOT BE REVIEWED IF PRIOR WORK ITEMS HAVE NOT BEEN ACCEPTED.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE OWNER'S REPRESENTATIVE IS NOTIFIED OF THESE MILESTONE WITNESS POINTS.



PLANTING NOTES:

1. *IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE IF IT IS OBVIOUS THAT OBSTRUCTIONS OR STRUCTURES, IRRIGATION SYSTEM MALFUNCTION, EXISTING TREES OR PLANTS, GRADE DIFFERENCES OR CHANGES IN THE SITE PLAN ARE PRESENT THAT WILL IMPACT THE PLANTING DESIGN. FAILURE TO GIVE SUCH NOTIFICATION SHALL PLACE THE RESPONSIBILITY ON THE CONTRACTOR FOR ANY REVISIONS OR REPLACEMENTS NECESSARY FOR CORRECTION.*
2. *ANY EXISTING PLANTING SHOWN ON THE PLAN IS FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY THE EXISTING PLANTING AT THE SITE PRIOR TO STARTING WORK. UNLESS NOTED OTHERWISE, THE CONTRACTOR SHALL PROTECT THE EXISTING PLANTING ADJACENT TO THE WORK FROM DAMAGE OR DISTRESS.*
3. *ALL TREES AND SHRUBS SHALL BE OF CLASS A QUALITY WITHOUT PESTS, DISEASE OR DAMAGE, SHALL BE WELL ESTABLISHED IN THEIR CONTAINERS WITHOUT GIRDLING ROOTS OR EXCESSIVE TOP GROWTH, AND SHALL COMPLY WITH THE REQUIREMENTS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" (ANSI Z60.1).*
4. *NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO THE INSTALLATION OF IRRIGATION COMPONENTS AND TREE AND/OR SHRUB PLANTING FOR APPROVAL OF THE PLANT LAYOUT AND PLANT QUALITY. PLANT LOCATIONS SHALL AVOID CONFLICTS WITH EXISTING IMPROVEMENTS, PLANTINGS OR UTILITIES, LIGHT POLES WHILE MEETING THE DESIGN INTENT. DO NOT PLANT TREES WITHIN 15 FEET OF LIGHT POLES UNLESS SPECIFICALLY AUTHORIZED. FAILURE TO OBTAIN SUCH APPROVAL SHALL PLACE THE RESPONSIBILITY ON THE CONTRACTOR FOR ANY RELOCATION OR REPLACEMENT OF IRRIGATION COMPONENTS, PLANTED TREES AND/OR SHRUBS.*
5. *PLANT QUANTITIES ARE PROVIDED FOR BIDDING CONVENIENCE ONLY. THE CONTRACTOR SHALL PROVIDE SUFFICIENT QUANTITIES OF PLANTS EQUAL TO THE SYMBOL COUNT OR TO FILL THE AREA SHOWN ON THE PLAN AT THE SPECIFIED TRIANGULAR SPACING.*
6. *WHERE GROUND COVER PLANTS ARE SHOWN AT A SPECIFIED SPACING, THE GROUND COVER PLANTING CONTINUES UNDERNEATH THE TALLER SHRUBS AND TREES AS SHOWN IN THE PLANTING DETAILS. DO NOT PLANT GROUND COVER IN SHRUB OR TREE WATERING BASINS.*
7. *ALL NEW TREES LOCATED WITHIN 8 FEET OF PAVEMENT OR STRUCTURES SHALL HAVE A ROOT CONTROL BARRIER INSTALLED WHEN PLANTED. UNLESS OTHERWISE SPECIFIED, INSTALL A 12 FOOT LONG X 24 INCH DEEP LINEAR POLYETHYLENE BARRIER VESPRO OR EQUAL AT THE EDGE OF PAVEMENT/STRUCTURE, CENTERED ON THE TREE TRUNK AS SHOWN IN THE PLANTING DETAILS.*
8. *REMOVE NURSERY STAKES FROM TREES AFTER TREE STAKING OR GUYING AS SHOWN IN THE DETAILS.*
9. *INSTALL PERFORATED POLYETHYLENE TREE TRUNK PROTECTORS FOR ALL NEW TREES PLANTED IN TURF. UNLESS NOTED OTHERWISE, MAINTAIN A MINIMUM 6 FOOT DIAMETER MULCHED AREA AT THE BASE OF THE TREE INSIDE THE WATERING BASIN.*
10. *THE CONTRACTOR SHALL PRUNE NEW TREES ONLY WHEN SPECIFICALLY DIRECTED BY THE LANDSCAPE ARCHITECT. TREES HEADED BACK WITHOUT INTACT SCAFFOLDING BRANCH STRUCTURE OR IN ROOT-BOUND CONTAINERS SHALL BE REJECTED.*
11. *SUBMIT REPRESENTATIVE SOIL SAMPLES OF NATIVE AND PROPOSED IMPORT, IF NEEDED, PLANTING TOPSOIL TO A SOIL LAB FOR HORTICULTURAL ANALYSES AND FERTILITY RECOMMENDATIONS. AMEND SOIL ACCORDING TO THE RECOMMENDATIONS OF THE SOILS REPORT AND LANDSCAPE ARCHITECT'S DIRECTION. SEE THE LANDSCAPE PLANTING SPECIFICATIONS FOR ADDITIONAL INSTRUCTIONS.*
12. *PROVIDE SANDY LOAM TOPSOIL PER SPECIFICATION IN ALL RAISED PLANTERS AND WHERE IMPORT TOPSOIL IS REQUIRED. NATIVE SITE SOIL MAY BE USED IN RAISED PLANTERS ONLY WHEN THE NATIVE SITE SOIL MEETS THE CRITERIA FOR SANDY LOAM TOPSOIL AS DETERMINED BY A SOIL ANALYSIS.*
13. *PRIOR TO SOIL CONDITIONING IN NEW PLANTING AREAS, RIP IN TWO DIFFERENT DIRECTIONS WITH TINES AT 12 INCH SPACING, ALL TURFGRASS AREAS TO A 12 INCH DEPTH, AND SHRUB/GROUND COVER AREAS TO A 18 INCH DEPTH. ROUGH GRADE AND TILL THE APPROVED SOIL CONDITIONERS AND FERTILIZERS INTO THE TOP SIX (6) INCHES OF ALL PLANTING AREAS PER THE LANDSCAPE PLANTING SPECIFICATIONS. COMPOST RATE SHALL BE A MINIMUM OF SIX (6) CUBIC YARDS PER 1,000 SQUARE FEET OR AS MODIFIED BY THE LANDSCAPE ARCHITECT BASED ON THE SOUL FERTILITY ANALYSIS.*
14. *UPON THE COMPLETION OF THE SOIL CONDITIONING, REMOVE ROCKS AND CLODS 1 INCH DIAMETER AND GREATER FROM THE TOP TWO INCHES OF TOPSOIL, AND ALL DEBRIS. FINISH GRADE THE AREA TO +/- 0.04 FOOT TOLERANCE. FINISH GRADE IN MULCHED AREAS SHALL BE STRAIGHT GRADES WITHOUT HUMPS OR DEPRESSIONS AND SHALL BE 2 INCHES BELOW ADJACENT HARDSCAPE, INLETS OR UTILITY BOX COLLARS. RELATIVE DENSITY OF THE TOPSOIL SHALL NOT EXCEED 85% COMPACTION.*
15. *OBTAIN THE APPROVAL OF THE OWNER'S REPRESENTATIVE TO BEGIN PLANTING OPERATIONS ONCE THE IRRIGATION SYSTEM IS OPERATIONAL AND THE SOIL CONDITIONING AND FINISH GRADING IS COMPLETED.*
16. *AFTER PLANTING IS COMPLETED AND JUST PRIOR TO MULCH INSTALLATION, APPLY A BROAD SPECTRUM PRE-EMERGENT HERBICIDE TO ALL NON-TURFGRASS PLANTING AREAS PER THE MANUFACTURER'S SPECIFICATIONS.*
17. *WHERE MULCH IS TO BE INSTALLED IN AN EXISTING PLANTING AREA, BREAKUP/TILL THE EXISTING SOIL TO A MINIMUM 6 INCH DEPTH PER SPECS, AND ADJUST FINISH GRADE ADJACENT TO HARDSCAPE AND DRAINAGE ELEMENTS TO PROVIDE A 2 INCH DEPTH THAT TRANSITIONS TO THE EXISTING GRADE OVER 1 TO 2 FEET.*
18. *INSTALL A MINIMUM 3 INCH DEPTH OF CHIPPED WALK-ON WOOD MULCH IN ALL PLANTING AREAS AND TREE WATERING BASINS EXCEPT FOR TURFGRASS AREAS, SLOPES 3H:1V OR GREATER, AREAS TO RECEIVE SEED PLANTING, OR AS NOTED ON THE PLAN. AREAS PLANTED WITH FLATS SHALL HAVE A MINIMUM MULCH DEPTH OF 2 INCHES. INSTALL A MINIMUM 3 FOOT RADIUS OF 3 INCH DEEP WOOD MULCH AT THE BASE OF ALL TREES IN NEW TURFGRASS AREAS.*
19. *ALL EXISTING PLANTS AND/OR TURFGRASS SHOWN TO REMAIN AND DAMAGED OR REMOVED BY CONSTRUCTION OPERATIONS AND/OR UTILITY/IRRIGATION/DRAINAGE LINES SHALL BE REPLACED WITH PLANTS THAT MATCH AS CLOSELY AS POSSIBLE TO THE EXISTING PLANT SPECIES, VARIETY AND SIZE. THE REPLACEMENT TURFGRASS SOD VARIETY SHALL BE THE SAME AS SHOWN IN THE PLANTING LEGEND AS IF FOR NEW WORK, OR SHALL MATCH THE EXISTING TURFGRASS VARIETY WHERE EXISTING. TILL SOIL CONDITIONING MATERIALS INTO THE TOP 6 INCHES OF THE SOIL OVER THE AREA OF REPAIR/REPLACEMENT AS IF FOR NEW WORK. ADJUST FINISH GRADE SO NEW TURFGRASS SOD ABUTS FLUSH TO EXISTING SOD GRADE. THE REPLACEMENT PLANTS AND/OR TURFGRASS SOD SHALL BE MAINTAINED AS PART OF THE ORIGINAL SCOPE OF WORK. THE REPAIR OR REPLACEMENT WORK SHALL BE AT THE CONTRACTOR'S SOLE EXPENSE.*
20. *CONTRACTOR SHALL MAINTAIN THE NEW PLANTING FOR HEALTHY AND VIGOROUS GROWTH, WHICH INCLUDES BUT IS NOT LIMITED TO WATERING, WEEDING, FERTILIZING, MOWING AND EDGING (AT LEAST ONCE A WEEK), REMOVING TRASH AND DEBRIS, AND OTHER RELATED ACTIVITIES THROUGHOUT THE DURATION OF THE MAINTENANCE PERIOD UNTIL FINAL ACCEPTANCE.*

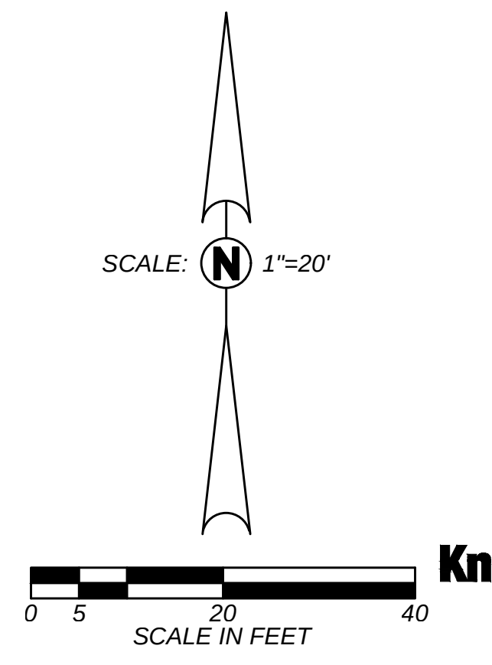
WATER CONSERVATION COMPLIANCE STATEMENT:

I HAVE COMPLIED WITH THE PERFORMANCE COMPLIANCE OPTION CRITERIA OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN.

IAN THOMPSON, RLA 7063

CAUTION

WATCH FOR OVERHEAD POWER LINES



811 Know what's **below.** **Call before you dig.**

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

CONTRACTOR SPECIAL PLANTING NOTES:

1. *AN ASSESSMENT AND VALUATION OF ONSITE EXISTING TREES SCHEDULED TO REMAIN IN THE AREA OF WORK SHALL BE PERFORMED BY THE CONTRACTOR'S ARBORIST PRIOR TO THE START OF CONSTRUCTION OPERATIONS PER THE 'EXISTING LANDSCAPE PROTECTION' SPECIFICATION.*
2. *THE CONTRACTOR SHALL RIP, CONDITION AND TILL THE ENTIRE EXTENT OF ALL PLANTING AREAS RECEIVING NEW PLANTS PER THE PLANTING NOTES AND 'LANDSCAPE PLANTING' SPECIFICATIONS.*
3. *ALL EXISTING MIXED PLANTING AREAS RECEIVING NEW WOOD MULCH SHALL BE MANUALLY TILLED TO A MINIMUM DEPTH OF 4 INCHES, CLODS BROKEN UP TO A MAXIMUM 1 INCH DIAMETER, FINISH GRADED TO 2 INCHES BELOW ADJACENT SURFACES AND UTILITY/IRRIGATION BOXES WITHIN 12 INCHES OF THE HARDSCAPE EDGE OR BOX, AND A GRANULAR PRE-EMERGENT HERBICIDE APPLIED PRIOR TO WOOD MULCH INSTALLATION. PROTECT EXISTING PLANTING DURING WOOD MULCH PREPARATION AND INSTALLATION.*
4. *THE ORIGINAL PLANTING OBSERVATION LOG SHALL BE MAINTAINED ON THE AS-BUILT RECORD DRAWING SET.*
5. *THE AS-BUILT RECORD DRAWING SET AND MAINTENANCE MANUAL SHALL BE SUBMITTED AND ACCEPTED PRIOR TO THE SCHEDULING OF A FINAL ACCEPTANCE REVIEW.*

LANDSCAPE PLANTING BID ALLOWANCE:

CONTRACTOR SHALL INCLUDE A BID ALLOWANCE IN THE AMOUNT OF $3,000 FOR THE REMOVAL AND REPLACEMENT OF EXISTING PLANTS/TURFGRASS AND/OR THE INSTALLATION OF NEW PLANTS/TURFGRASS WHERE NOT SPECIFICALLY SHOWN ON THE DRAWINGS FOR REPLACEMENT OR INSTALLATION.

TURFGRASS RENOVATION SUMMARY OF WORK:

1. *CONFIRM THE EXTENT OF THE RENOVATION AREA WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING RENOVATION WORK.*
2. *FLAG AND/OR TEMPORARILY REMOVE IRRIGATION HEADS AND/OR BOXES IN THE RENOVATION AREA.*
3. *CLEAR EXISTING TURFGRASS FROM THE AREA DAMAGED BY CONSTRUCTION ACCESS AND/OR EQUIPMENT/MATERIAL STORAGE.*
4. *ADD SIMILAR TOPSOIL AS NEEDED TO RESTORE THE FINISH GRADE IN THE RENOVATION AREA.*
5. *TILL AND AMEND THE TOP SIX INCHES OF THE RENOVATION AREA TOPSOIL.*
6. *FINISH GRADE SHALL BE A STRAIGHT GRADE BETWEEN THE OUTSIDE BOUNDARIES OF THE RENOVATION AREA. FINISH GRADING TOLERANCE SHALL BE +/- 0.02'.*
7. *REINSTALL IRRIGATION HEADS. CONFIRM PROPER COVERAGE WITH THE OWNER'S REPRESENTATIVE PRIOR TO SOD INSTALLATION.*
8. *ALLOW FOR THE TURFGRASS SOD SOIL MAT THICKNESS IN THE FINAL SURFACE ELEVATION. NEW TURFGRASS SHALL BE FLUSH TO THE EXISTING ADJACENT TURFGRASS.*
9. *PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL PROVIDE A CONSTRUCTION ACCESS EXHIBIT CONFIRMING THE LIMITS OF DISTURBANCE FOR TURFGRASS REPLACEMENT – COORDINATE WITH DEMO PLANS FOR THE AREA OF TURFGRASS REMOVAL.*

SEE SHEET SD/L202 FOR PLANT LEGEND, DETAILS, AND CALCS

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Signature
12/31/26
Renewal Date
02/05/26
Date

Consultant

Community Day School Modernization
Merced City School District
Merced, CA

Project

SITE DEVELOPMENT
PLANTING PLAN

Drawing

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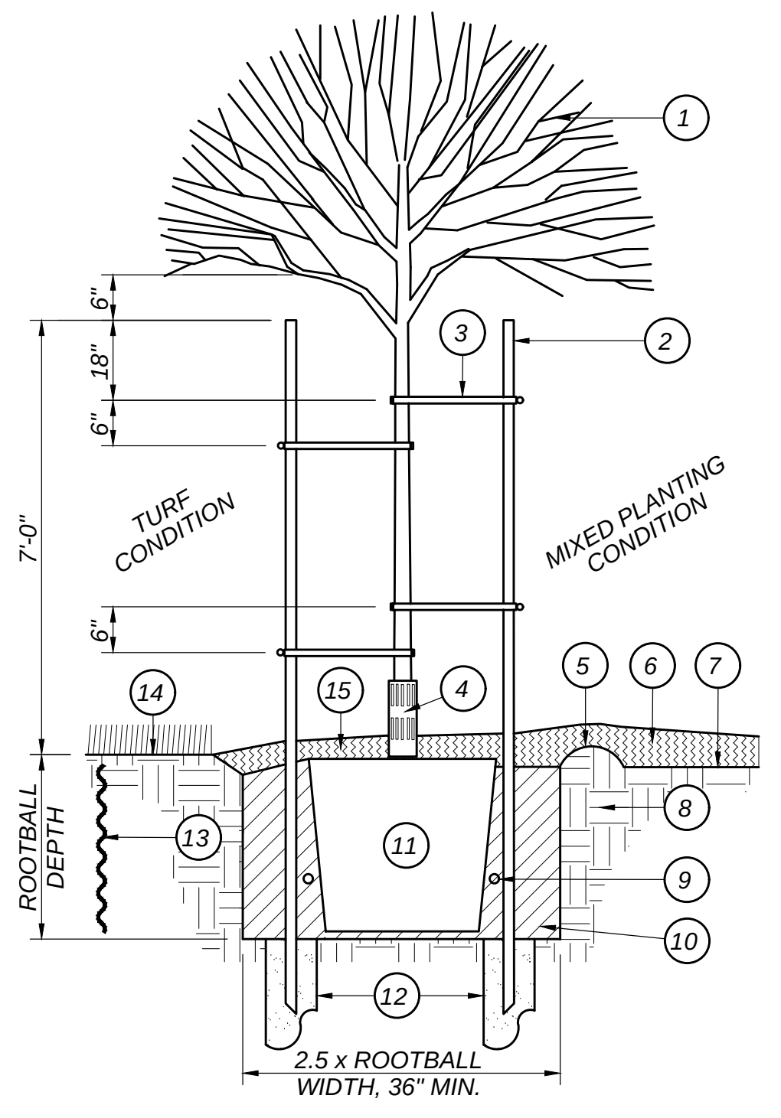
No. C-20,307
Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

	Designed By: GB	Copyright 2026 Darden Architects
Scale: As Indicated	Drawn By: GB	*SD/L201*
Project Number: 2533	Checked By: IT	
Date: 2/9/2026	Reviewed By: JDB	Sheet: ________ of: ________



LEGEND:

1. TREE PER PLANTING PLAN.
2. 2" X 10' LODGEPOLE PINE STAKE. DO NOT DRIVE STAKE THROUGH ROOTBALL. CUT OFF TOP SECTION DAMAGED BY HAMMERING. TOP OF STAKE IS 6" CLEAR OF LOWEST TREE BRANCHES.
3. FLEXIBLE VINYL TREE TIE, 4 / TREE (V.I.T. OR APPROVED EQUAL.)
4. TREE TRUNK PROTECTOR (GRAY) WHERE TREE IS IN TURF AREA.
5. 4" HIGH WATERING BERM.
6. ADJACENT PLANTING AREA WITH MULCH WHERE OCCURS.
7. FINISH GRADE.
8. SITE SOIL.
9. PLANT FERTILIZER TABLET. SEE SPECIFICATIONS.
10. AMENDED BACKFILL. SEE SPECIFICATIONS.
11. ROOTBALL. SET TOP OF ROOTBALL 2" ABOVE FINISH GRADE.
12. DRAINAGE SUMP: 12" DIA. PER DRAINAGE SUMP NOTES. FILL WITH CONCRETE SAND PER SSPWC 200-1.5.5.
13. ROOT CONTROL BARRIER WHERE REQUIRED. SEE GENERAL PLANTING NOTES AND DETAIL [F/SD/L202].
14. ADJACENT TURFGRASS PLANTING WHERE OCCURS.
15. MULCH, MINIMUM 3" DEPTH. SEE GENERAL PLANTING NOTE 17.

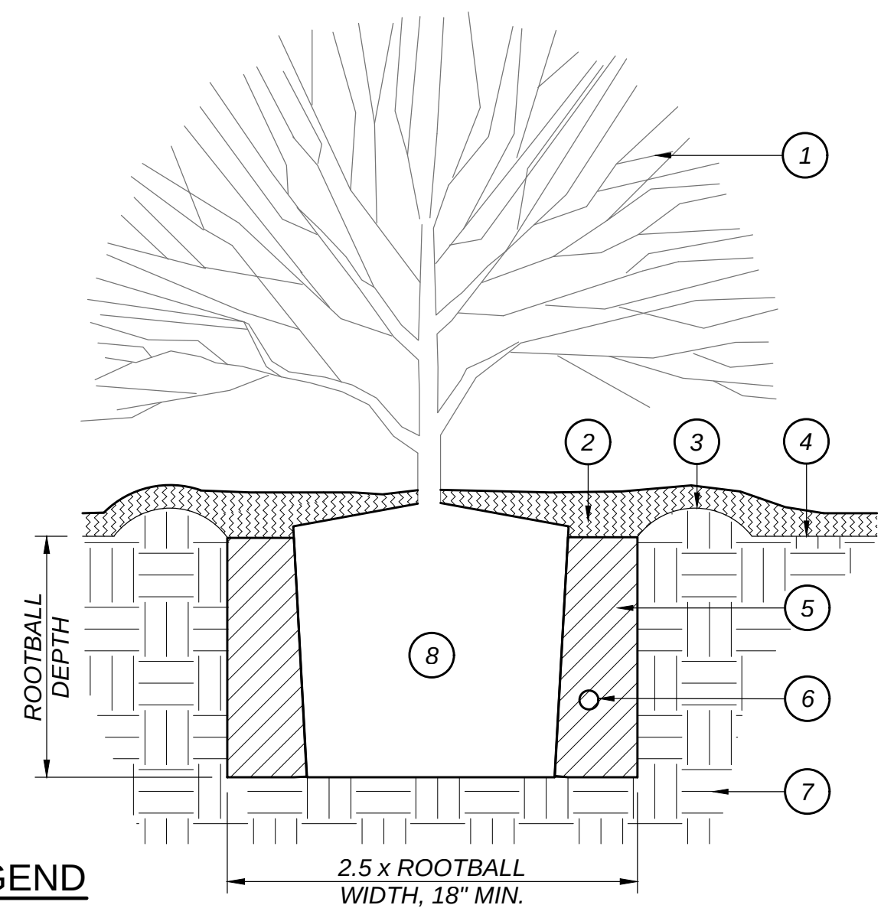
DRAINAGE SUMP NOTES:

A. DRAINAGE SUMPS SHALL PENETRATE THROUGH AND BEYOND ANY UNDERLYING PAVEMENT OR HARDPAN SOIL STRATUM, AND SUCH PAVEMENT OR HARDPAN MATERIAL SHALL BE REMOVED FROM THE SUMP HOLES.

B. THE SUMP HOLE SHALL BE DRILLED TO MINIMUM DEPTH OF TEN (10) FEET, UNLESS VISUAL EVIDENCE OF A SUBSURFACE SAND AND/OR GRAVEL DRAINAGE STRATUM IS APPARENT AT A LESSER DEPTH. THE SUMP HOLES SHALL EXTEND INTO THE DRAINAGE STRATUM A MINIMUM OF ONE (1) FOOT.

A SD/L202 DOUBLE STAKE TREE PLANTING

NOT TO SCALE

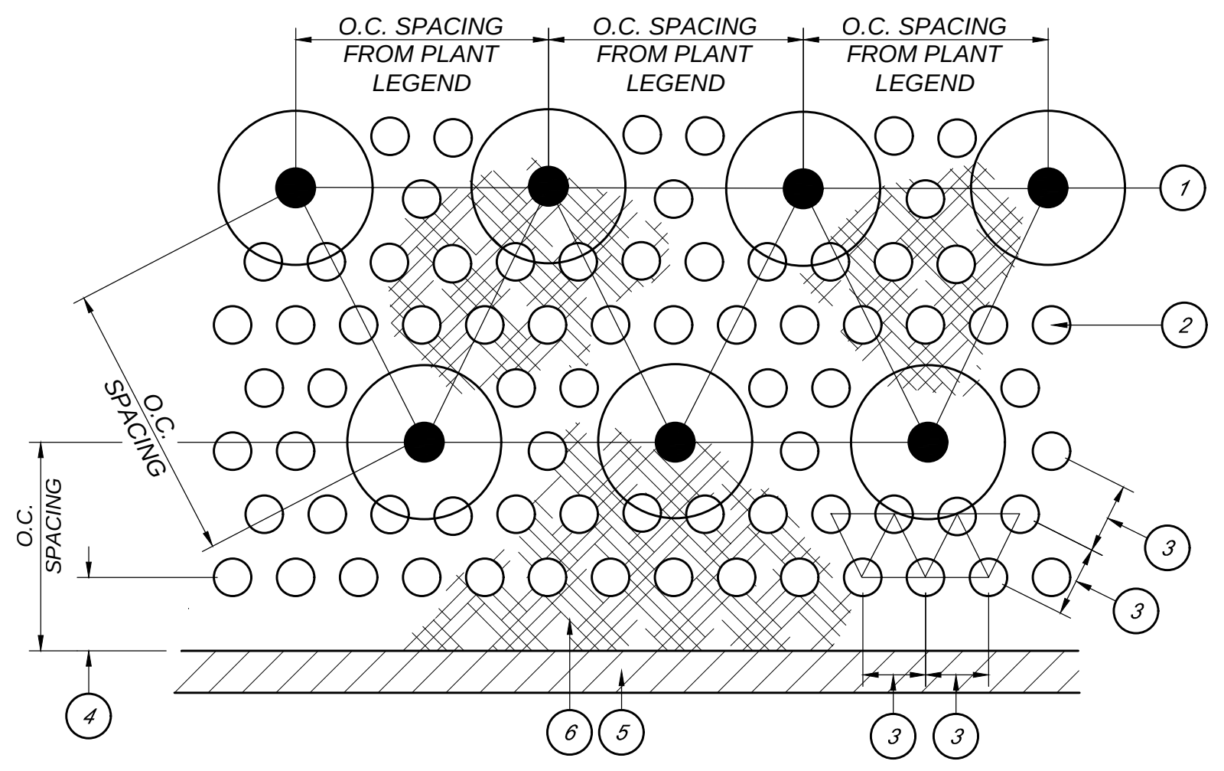


LEGEND

1. SHRUB.
2. WOOD MULCH LAYER.
3. 3" HIGH WATERING BASIN.
4. FINISH GRADE.
5. AMENDED BACKFILL. SEE SPECIFICATIONS.
6. FERTILIZER PACKET. SEE SPECIFICATIONS.
7. SITE SOIL.
8. ROOTBALL. SET TOP OF ROOTBALL 1" ABOVE FINISH GRADE.

B SD/L202 SHRUB PLANTING

NOT TO SCALE


O.C. SPACING FROM PLANT LEGEND
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O.C. SPACING
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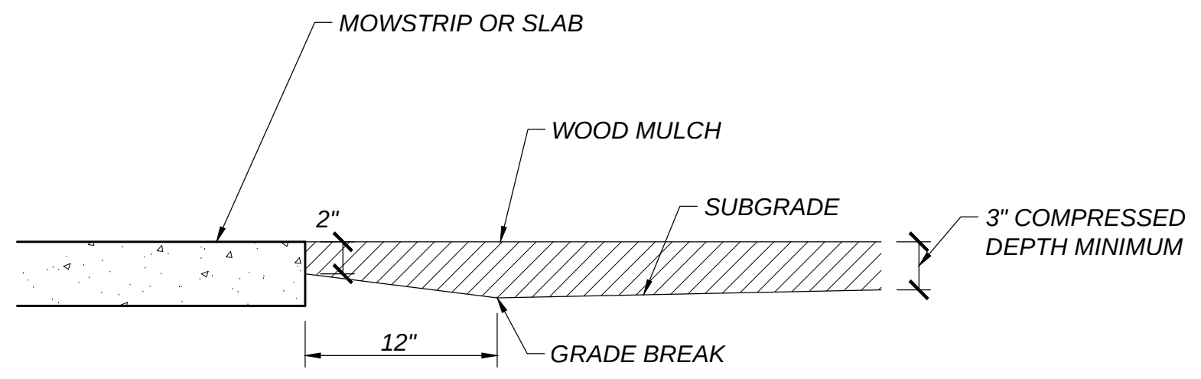
LEGEND:

1. CONTAINER SHRUB OR GROUND COVER IN TRIANGULATED ROWS, SEE SHRUB PLANTING PER DETAIL [B/SD/L202].
2. GROUND COVER FLATS OR LINERS - TRIANGULATED ROWS.
3. SPACE PER PLANT LEGEND. OMIT PLANTS WHERE IN CONFLICT WITH SHRUBS OR TREE WATERING BASINS.
4. SPACING DISTANCE FROM PLANT LEGEND.
5. HARDSCAPE ELEMENT: CURB, WALK, ETC.
6. MULCH PER SPECIFICATIONS.

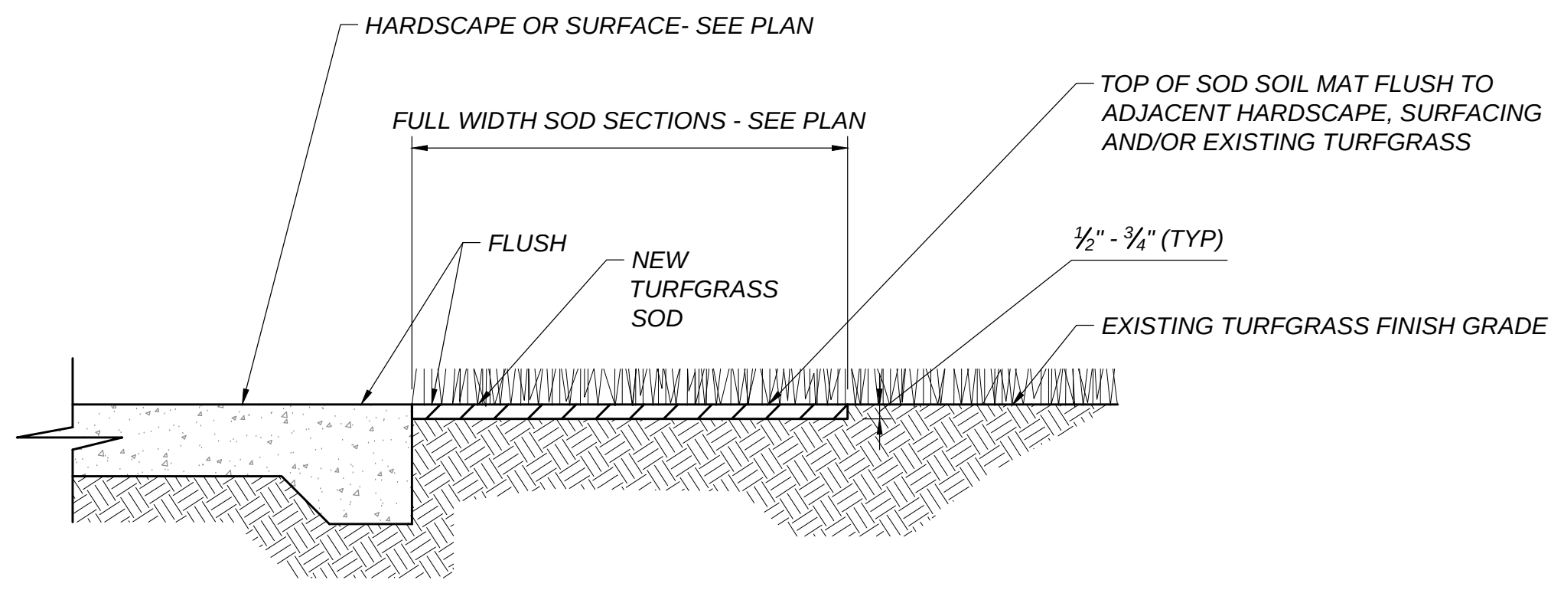
C SD/L202 SHRUB AND GROUND COVER SPACING

NOT TO SCALE



D SD/L202 MULCH DETAIL

NOT TO SCALE

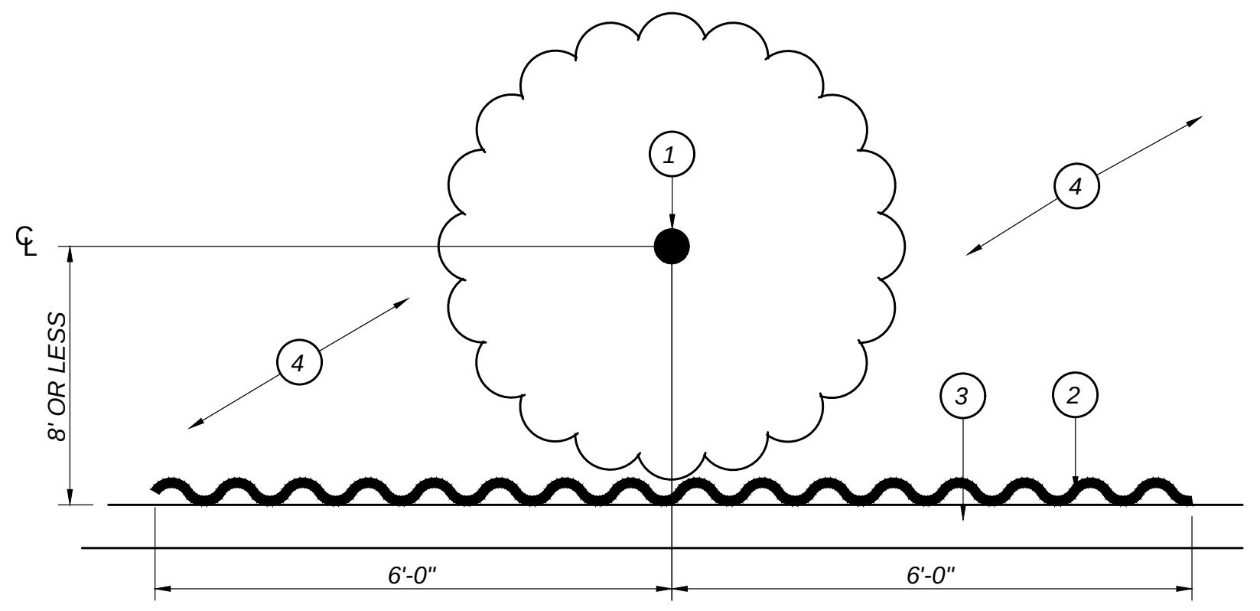

HARDSCAPE OR SURFACE- SEE PLAN
FULL WIDTH SOD SECTIONS - SEE PLAN
TOP OF SOD SOIL MAT FLUSH TO ADJACENT HARDSCAPE, SURFACING AND/OR EXISTING TURFGRASS
FLUSH
NEW TURFGRASS SOD
½" - ¾" (TYP)
EXISTING TURFGRASS FINISH GRADE

NOTE:

IF THE EXISTING TURFGRASS FINISH GRADE IS HIGHER OR LOWER THAN THE NEW FINISH SURFACE, TRANSITION GRADE THE NEW SOD AT A MAXIMUM 1V:12H SLOPE

E SD/L202 TURF SOD INSTALLATION

NOT TO SCALE



LEGEND

1. TREE TRUNK.
2. 12 LF OF 24"-DEEP ROOT CONTROL BARRIER: DEEP ROOT UB24-2 OR EQUIVALENT. CENTER BARRIER ON TRUNK OF TREE. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
3. HARDSCAPE ELEMENT: CURB, SIDEWALK, WALL, ETC.
4. PLANTING AREA.
5. INSTALL ROOT CONTROL BARRIER ON ALL SIDES OF THE PLANTING AREA WHEN SURROUNDED BY HARDSCAPE WITHIN 8' OF THE TREE TRUNK.

F SD/L202 ROOT CONTROL BARRIER

NOT TO SCALE

LANDSCAPE SHADE CALCULATIONS SHADING PER CALGREEN 5.106.12 v6

SITE SHADING - LANDSCAPE & HARDSCAPE	**QUANTITY PROPOSED (SF)**	**PERCENT SHADE REQUIRED**	**LANDSCAPE SHADE REQUIRED**	**HARDSCAPE SHADE AREA REQUIRED**
LANDSCAPED AREA (EXCLUDING SPECIAL USE & PARKING LANDSCAPE AREAS)	815	20	163	
HARDSCAPE AREA (EXCLUDING PARKING HARDSCAPE AREAS)	3,359	20		672
SHADE CREDIT FROM SOLAR OR OTHER SHADE			0	0
SHADE CREDIT FROM EXISTING TREES			0	0
TOTAL SHADE FROM NEW TREES REQUIRED			**163**	**672**
PROVIDED SHADE TREES FOR SITE SHADING	**NO. TREES IN LANDSCAPE**	**NO. TREES IN HARDSCAPE**	**LANDSCAPE SHADE AREA**	**HARDSCAPE SHADE AREA**
VERY LARGE (40' dia.= 1256 SF)	0	0	0	0
LARGE (35' dia.= 962 SF)	1	1	962	962
MEDIUM (30' dia.= 707 SF)	0	0	0	0
SMALL (20' dia.= 314 SF)	0	0	0	0
TOTALS	1	1	**962**	**962**

PARKING LOT SHADING	**QUANTITY PROPOSED (SF)**	**PERCENT REQUIRED**		**SHADE AREA REQUIRED (SF)**
PARKING LOT STALLS, LOADING ZONES, AISLES	25,242	50		12,621
PARKING LOT LANDSCAPE	8,887	20		1,777
PARKING LOT HARDSCAPE	423	20		85
TOTAL PARKING SHADE REQUIRED				14,483
SHADE CREDIT FROM SOLAR OR OTHER SHADE				0
SHADE CREDIT FROM EXISTING TREES				0
TOTAL SHADE FROM NEW TREES REQUIRED AT PARKING				**14483**
PROVIDED SHADE TREES - PARKING AREA			**NO. TREES IN PARKING AREA**	**PROVIDED PARKING SHADE AREA**
VERY LARGE (40' dia.= 1256 SF)			4	5,024
LARGE (35' dia.= 962 SF)			7	6,734
MEDIUM (30' dia.= 707 SF)			5	3,535
SMALL (20' dia.= 314 SF)			6	1,884
TOTALS			22	**17,177**

Percentage of Parking Area Shade Requirement: **119%** Note: 100% or more is compliant
Percentage of Site Hardscape Area Shade Requirement: **590%**
Percentage of Site Landscape Area Shade Requirement: **143%**

PLANT LEGEND:

MIXED PLANTING AREA: 9,986 SQ FT
SUNSET ZONE: 8

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	WATER USE	QTY	DETAIL	REMARKS
TREES							
⊙	LAU XSA	LAURUS X 'SARATOGA' SARATOGA HYBRID LAUREL	24"BOX	L	5	A/SD/L202	STANDARD FORM EVERGREEN PART SHADE MS: 40' H X 15'-30' W
⊙	OLE SWA	OLEA EUROPAEA 'SWAN HILL' SWAN HILL OLIVE	24"BOX	VL	6	A/SD/L202	STANDARD FORM EVERGREEN FULL SUN FRUITLESS VARIETY MS: 25' H X 25' W
⊙	PIS KEI	PISTACIA CHINENSIS 'KEITH DAVEY' KEITH DAVEY CHINESE PISTACHE	24"BOX	L	10	A/SD/L202	STANDARD FORM DECIDUOUS FULL SUN MS: 25'-40' H X 25'-35' W
⊙	ULM DRA	ULMUS PARVIFOLIA 'DRAKE' DRAKE LACEBARK ELM	24"BOX	L	3	A/SD/L202	STANDARD FORM SEMI-EVERGREEN FULL SUN MS: 45' H X 35'-50' W

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	WATER USE	QTY	DETAIL	REMARKS
SHRUBS							
✷	ANI ORC	ANIGOZANTHOS X 'ORANGE CROSS' ORANGE CROSS KANGAROO PAW	5 GAL	L	89	B/SD/L202	EVERGREEN SUN TO PARTIAL SHADE MS: 4-5' H X 2-3' W
⊙	CAL DWA	CALLISTEMON VIMINALIS `LITTLE JOHN` DWARF WEEPING BOTTLEBRUSH	1 GAL	L	18	B/SD/L202	EVERGREEN FULL SUN MS: 3' H X 5' W
⊙	LEU COM	LEUCOPHYLLUM FRUTESCENS `COMPACTA` COMPACT TEXAS RANGER	5 GAL	L	17	B/SD/L202	EVERGREEN FULL SUN MS: 5' H X 5' W
⊙	MOR IRI	MORAEA IRIDIOIDES FORTNIGHT LILY	5 GAL	L	42	B/SD/L202	EVERGREEN FULL SUN TO PARTIAL SHADE MS: 3' H X 3-4' W
▲	MUH RIG	MUHLENBERGIA RIGENS DEER GRASS	5 GAL	L	33	B/SD/L202	EVERGREEN SUN OR SHADE MS: 4-5' H X 4-5' W
○	NAN GUL	NANDINA DOMESTICA `GULF STREAM` TM GULF STREAM HEAVENLY BAMBOO	5 GAL	L	46	B/SD/L202	FULL TO PARTIAL SUN MS: 3'-3.5' H X 2.5'-3' W
✺	ROS COL	ROSMARINUS OFFICINALIS 'COLLINGWOOD INGRAM' COLLINGWOOD INGRAM ROSEMARY	5 GAL	L	57	B/SD/L202	EVERGREEN FULL SUN 2'-3' H X 3'-4' W
PERENNIALS							
⊙	TUL VAR	TULBAGHIA VIOLACEA `VARIEGATA` VARIEGATED SOCIETY GARLIC	1 GAL	L	201	B/SD/L202	SEMI-EVERGREEN FULL SUN MS: 1`-2` H X 2` W
SUCCULENTS: EVERGREEN							
✵	HES PAR	HESPERALOE PARVIFLORA RED YUCCA	1 GAL	L	44	B/SD/L202	EVERGREEN FULL SUN TO PARTIAL SHADE MS: 3-4'H X 3-4'W

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	WATER USE	QTY	DETAIL	REMARKS
GROUND COVERS							
▨	LAN MON	LANTANA SELLOWIANA 'MONSWEE' LAVENDER SWIRL® TRAILING LANTANA	1 GAL	L	1,506 SF	C/SD/L202	EVERGREEN FULL SUN MS: 1' H X SPREADING
▨	MULCH	WALK-ON WOOD MULCH	N/A	N/A	796 SF	D/SD/L202	MIN. 3 INCH COMPRESSED DEPTH. SEE PLANTING NOTE #18. QUANTITY IS IN ADDITION TO THAT PROVIDED IN THE MIXED PLANTING AREA.
TURF GRASS							
▨	TURF	BOLERO PLUS (90% BOLERO DWARF FESCUE/10% BLUE GRASS)	SOD	M	17,642 SF	E/SD/L202	CONTRACTOR SHALL CONFIRM TURF SPECIES VARIETY.
〰	RB	ROOT BARRIER UB24-2				F/SD/L202	24 INCH DEEP ROOT BARRIER PANELS

TREE SIZE AND QUALITY STANDARDS

AMERICAN STANDARDS FOR NURSERY STOCK (ANSI Z60.1) AND GUIDELINE SPECIFICATIONS FOR NURSERY TREE QUALITY (URBAN TREE FOUNDATION SHALL APPLY

	TYPES 1 & 2 SHADE TREES			**TYPE 3 SMALL UPRIGHT TREES ****			**TYPE 4 SMALL SPREADING TREES *****		
CONTAINER SIZE	**MIN. CALIPER**	**MAX. CALIPER**	**TYPE 1 MIN./MAX. HEIGHT ***	**MIN. CALIPER**	**MAX. CALIPER**	**MIN./MAX. HEIGHT**	**MIN. CALIPER**	**MAX. CALIPER**	**MIN./MAX. HEIGHT**
15 GALLON	0.75	2.0	7-10 FT	0.75	2.0	6-8 FT	0.75	2.0	4-8 FT
24" BOX	1.25	3.0	8-12 FT	1.25	3.0	8-10 FT	1.25	3.0	6-10 FT
36" BOX	1.75	3.5	10-16 FT	1.75	3.5	10-14 FT	1.75	3.5	7-12 FT
42" BOX	2.0	4.0	12-20 FT	2.0	4.0	12-18 FT	2.0	4.0	8-14 FT
48" BOX	2.5	5.0	14-26 FT	2.5	5.0	14-22 FT	2.5	5.0	9-16 FT

* TYPE 2 TREE HEIGHTS SHALL NOT BE LESS THAN TWO-THIRDS THE LISTED HEIGHT RANGE.

** TYPE 3 TREES SHALL HAVE A MINIMUM OF SEVEN BRANCHES.

*** TYPE 4 TREES SHALL HAVE A MINIMUM OF EIGHT BRANCHES.

CALIPER MEASUREMENT FOR CLUMP OR MULTI-STEM TREES IS ONE-HALF THE SUM OF THE THREE LARGEST TRUNK CALIPERS.

CALIPER MEASUREMENT FOR <4" TRUNK IS +6" ABOVE ROOTBALL (NOT INCLUDING ROOTSTOCK). >4" TRUNK IS +12".

TREES SHALL HAVE A CENTRAL LEADER. NEW LEADERS LESS THAN HALF THE DIAMETER OF A HEADED LEADER, BROKEN OR CO-DOMINATE LEADERS ARE NOT ACCEPTABLE.

SCAFFOLD BRANCHES SHALL BE LESS THAN 2/3 THE DIAMETER OF THE TRUNK, WITHOUT INCLUDED BARK AT ATTACHMENT. SCAFFOLD BRANCHES SHALL BE BALANCED, WELL SPACED VERTICALLY, AND WITH A RADIALLY BLANK SECTOR NO GREATER THAN 1/3 OF THE CANOPY CIRCUMFERENCE.

TEMPORARY BRANCHES ON THE LOWER TRUNK SHALL BE LESS THAN 3/8 INCH DIAMETER; AND THE CLEAR TRUNK HEIGHT SHALL BE NO MORE THAN 40% OF THE TOTAL TREE HEIGHT.

THE ROOT COLLAR AND ROOTBALL SHALL BE FREE OF DEFECTS INCLUDING CIRCLING, KINKED AND GIRDLING ROOTS. ROOTS THE EDGE AND BOTTOM OF THE CONTAINER SHALL BE LESS THAN 1/4 INCH DIAMETER, AND UNIFORM THROUGHOUT THE CONTAINER.

TREE CANOPY WIDTH SHALL BE A MINIMUM OF 25% OF THE STANDARD FORM TREE HEIGHT.

DO NOT HEAD BACK OR PRUNE TREES UNLESS APPROVED AND/OR DIRECTED TO BY THE LANDSCAPE ARCHITECT.

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

General Notes

Blair, Church & Flynn
CONSULTING ENGINEERS

Blair, Church & Flynn
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IAN THOMPSON NO. 7063
Signature
12/31/26
Renewal Date
02/05/26
Date

Consultant

Community Day School Modernization
Merced City School District
Merced, CA

Project

SITE DEVELOPMENT
PLANTING DETAILS

Drawing

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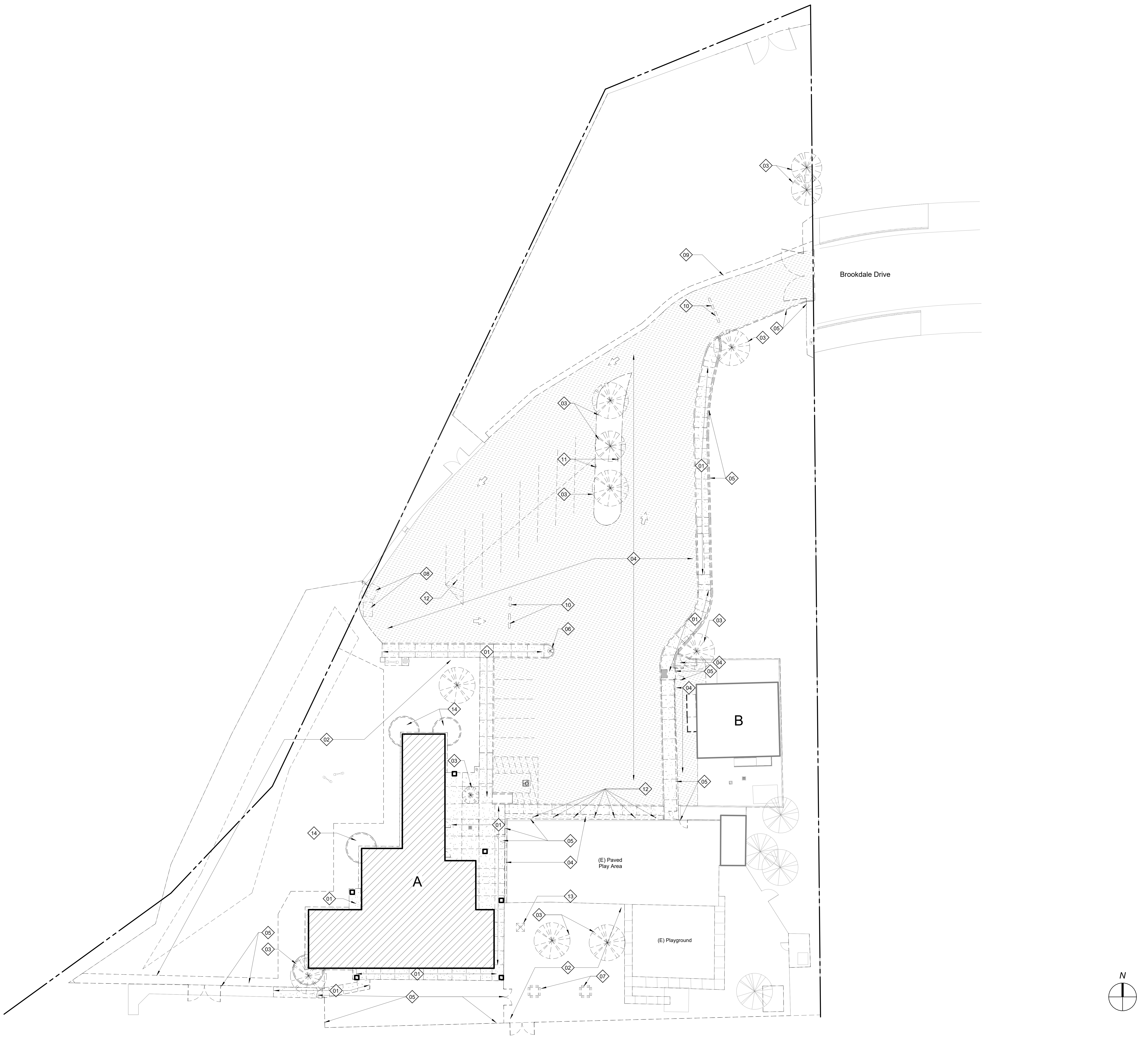
GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

	Designed By: GB	Copyright 2026 Darden Architects
Scale: As Indicated	Drawn By: GB	SD/L202
Project Number: 2533	Checked By: IT	
Date: 2/9/2026	Reviewed By: JDB	Sheet: ________ of: ________



A1

Demolition Site Plan

1" = 20'-0"

Refer to F18 for Symbols, Abbreviations and Notes.

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

SYMBOLS

—	Assumed Property Line
- - - -	SELECTIVE DEMOLITION, Existing Item and / or Area to be Removed and / or Relocated. (See Demolition Notes)
⬚	SELECTIVE DEMOLITION, Sawcut, Remove and Dispose of Existing Concrete Paving (See Demolition Notes)
☐	Existing Concrete Paving
▨	SELECTIVE DEMOLITION, Remove and Dispose of Existing Asphalt Concrete Paving (See Demolition Notes)
▨	Existing Asphalt Concrete Paving
○	Existing Tree
◌	SELECTIVE DEMOLITION, Remove Existing Tree (See Demolition Notes)
◇F1	Demolition Note Symbol
L	Building Designation
▭	Existing Building

DEMOLITION NOTES

01	CLEARING AND DEMOLITION: Sawcut Existing Concrete as required for new improvements, Typical
02	CLEARING AND DEMOLITION: Clear Area for New Work to Occur. Remove Vegetation, Irrigation Lines, Sprinkler Heads, Valves, and Valve Boxes for New Work as Needed, Refer to General note #3 below
03	CLEARING AND DEMOLITION: Remove and Dispose of Existing Tree and Rootball Down to Depth of -3'-0" and Roots Larger than 1/2" Diameter. Verify Scope of Work (Numbers of Trees to be removed) with Project Inspector Prior to Starting Work, Typical
04	CLEARING AND DEMOLITION: Remove and Dispose of Existing Asphalt Concrete Paving (Shown Dashed)
05	SELECTIVE DEMOLITION, Remove and Dispose of Existing Chainlink Fence and Gates, Typical
06	SELECTIVE DEMOLITION, Disconnect, Remove and Replace Existing Electrical Light Bulbs, See Electrical Drawings, Typical
07	SELECTIVE DEMOLITION, Remove and Salvage Existing Picnic Tables, Coordinate w/Owner, Typical
08	SELECTIVE DEMOLITION, Remove and Salvage Existing Trash Bins, Coordinate w/Owner, Typical
09	SELECTIVE DEMOLITION, Remove Existing Valley Gutter
10	SELECTIVE DEMOLITION, Remove Existing Speed Bumps
11	SELECTIVE DEMOLITION, Remove Existing Parking Signage
12	SELECTIVE DEMOLITION, Remove Existing Bollards
13	SELECTIVE DEMOLITION, Remove and Salvage Existing Play Equipment, Coordinate w/Owner, Typical
14	SELECTIVE DEMOLITION, Remove Existing Shrubs

GENERAL NOTES

1. Refer to Mechanical Drawings to Verify the Extent of the Demolition Required in Preparing for the Site development Scope of Work
2. Demolition to be in Compliance with the California Fire Code, Chapter 33 - Fire Safety During Construction and Demolition
3. Remove existing irrigation lines, heads and valves as required for new construction. The Contractor is responsible for field verification of the existing irrigation system within the new construction area and in providing all of what is required to amend and adjust the sprinkler system due to new improvements to provide a complete and operational system. Provide new sprinkler heads as required same as removed. The irrigation sytem shall remain in operation during construction
4. Refer to Topographic and Site Utility Surveys for Additional Information
5. Refer to Mechanical Drawings to Verify the Mechanical Demolition Work Required within the Existing Mechanical Yard including Mechanical equipment, Overhead piping and all other related items.

F18

Demolition Partial Site Plan Legend

No Scale

Community Day School Modernization
Merced City School District
Merced, CA, 95340

Project

SITE DEVELOPMENT
OVERALL SITE DEMOLITION PLAN

Drawing

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LICENSED ARCHITECT
GRANT E. DODSON
No. C-20,307
Ren. 6-30-27
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: -
Scale: 1" = 20'-0"
Drawn By: -
Project Number: 2533
Checked By: -
Date: 2/9/2026
Reviewed By: -

SD/A100

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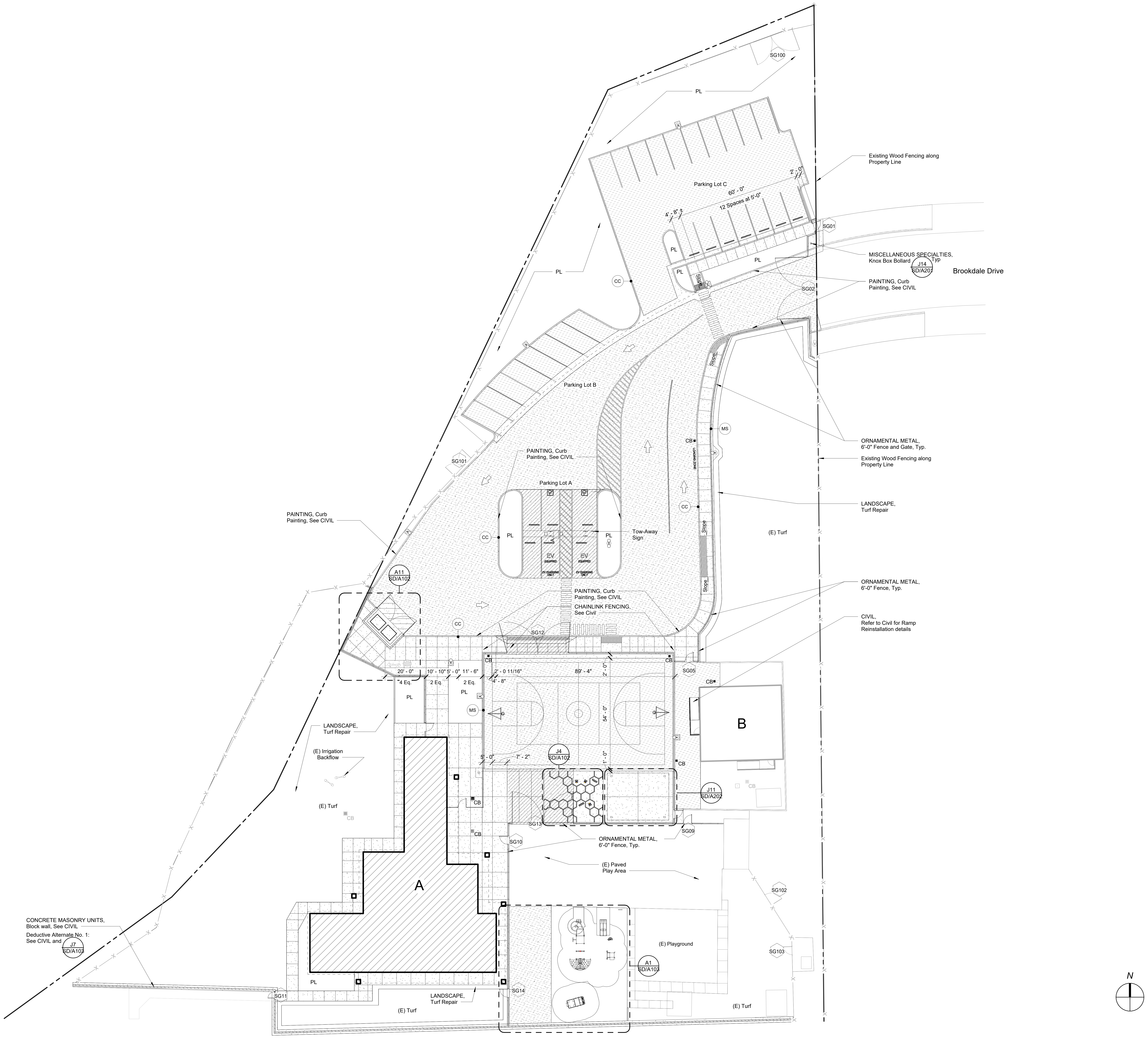

DSA File No.:
24-35

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Agency Approval

SYMBOLS

▨	ASPHALT PAVING, Typical Paving Section, 6" Asphalt Concrete over 5" Aggregate Base over 12" 95% Compacted Fill.
▨	ASPHALT PAVING, Heavy Paving Section, 7" Asphalt Concrete over 6" Aggregate Base over 95% Compacted Fill.
▨	SITE CONCRETE IMPROVEMENTS, 4" Concrete Walk over 6" 90% Compacted Fill.
▨	SITE CONCRETE IMPROVEMENTS, 6" Concrete Walk over 12" 90% Compacted Fill.
☐	Existing Concrete Paving
▦	SITE CONCRETE IMPROVEMENTS, Dashed Lines Indicate Expansion Joints. Solid Lines Indicate Control Joints.
━━━	Building Outline
───	Property Line
– – – – –	Limits of Construction (Project Area)
X——X——X	Existing Fencing
───	Existing
Slope (DN)	General Direction of Slope
☼	ELECTRICAL, Existing Light Pole
●—(CC)	Indicates Concrete Curb
●—(MS)	Indicates Mow Strip
SG01	Opening Group No. Refer to Site Gate Schedule
CB	STORM DRAINAGE, Catch Basin or Drain Box
FH	PLUMBING, Fire Hydrant
FDC	PLUMBING, Fire Department Connection (Siamese)
PIV	PLUMBING, Post Indicator Valve
◎	ELECTRICAL, Pole Light Fixture,
▽	ELECTRICAL, Light Fixture, Directional
☐	ELECTRICAL & MECHANICAL, Utility Box

ABBREVIATIONS

(E)	Existing	FL	Flow Line	RWL	Rain Water Leader
AC	Air Conditioning System	FMFCD	Fresno Metropolitan Flood Control District	SD	Storm Drain
AD	Area Drain, (See Plumbing)	FS	Floor Sink	SL	Site Lighting
BW	Back of Walk	G	Gas	S	Signal
C	Concrete	GT	Gutter	SS	Sanitary Sewer
CB	Catch Basin	GB	Grade Break	TB	Top of Bench
CJ	Control Joint	RG	Rough Grade	TC	Top of Curb
CM	Communications	HPG	High Pressure Gas	TD	Trench Drain
COB	Clean Out Box	HL	Hydronics Line	TG	Top of Grate
CW	Cold Water	INV N	Invert North	TF	Top of Fence
DB	Drain Box	INV NE	Invert Northeast	TL	Top of Lid
DI	Drain Inlet	MH	Manhole	TLB	Top of Light Base
DS	Drainage Swale	MS	Mow Strip	TW	Top of Wall
EMS	Energy Management System	OC	On Center	Typ.	Typical
E	Electrical Power	P	Pavement	UNO	Unless Noted Otherwise
EJ	Expansion Joint, 1/2"	P1-P4	Electrical Utility Box	VG	Valley Gutter
F	Fire Protection	PIV	Post Indicator Valve	W	Waste
FD	Floor Drain	PL	Planter		
FDC	Fire Dept Connection	R	Radius		
FF	Finish Floor				
FG	Finish Grade				

NOTES

1) CAST-IN-PLACE CONCRETE, All Concrete Walk Joints Shall Be Expansion Joints unless otherwise noted. Provide Expansion Joints where walk abuts other site elements.

2) PLUMBING, See Plumbing Drawings

3) ELECTRICAL, See Electrical Drawings

4) LANDSCAPING, See Landscape and Irrigation Drawings

5) Refer to CIVIL for Vertical Controls and Grading

G18
No Scale

Site Plan Legend

Community Day School Modernization
Merced City School District
Merced, CA, 95340
Project

SITE DEVELOPMENT
OVERALL SITE PLAN
Drawing

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LICENSED ARCHITECT
GRANT E. DODSON
No. C-20,307
Ren. 6-30-27
STATE OF CALIFORNIA

Grant E. Dodson

Architect

No.	Revision/Submission	Date

Revision

	Designed By: -	
Scale: 1" = 20'-0"	Drawn By: -	SD/A101
Project Number: 2533	Checked By: -	
Date: 2/9/2026	Reviewed By: -	

A1
1" = 20'-0"

Overall Site Plan

Refer to G18 for Symbols, Abbreviations and Notes.

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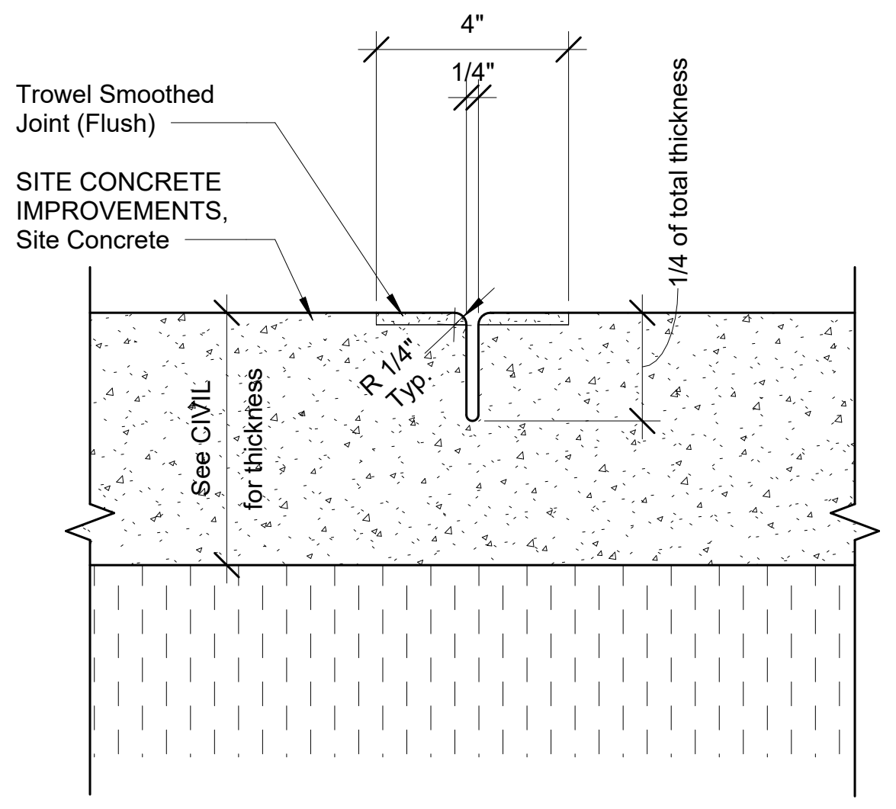
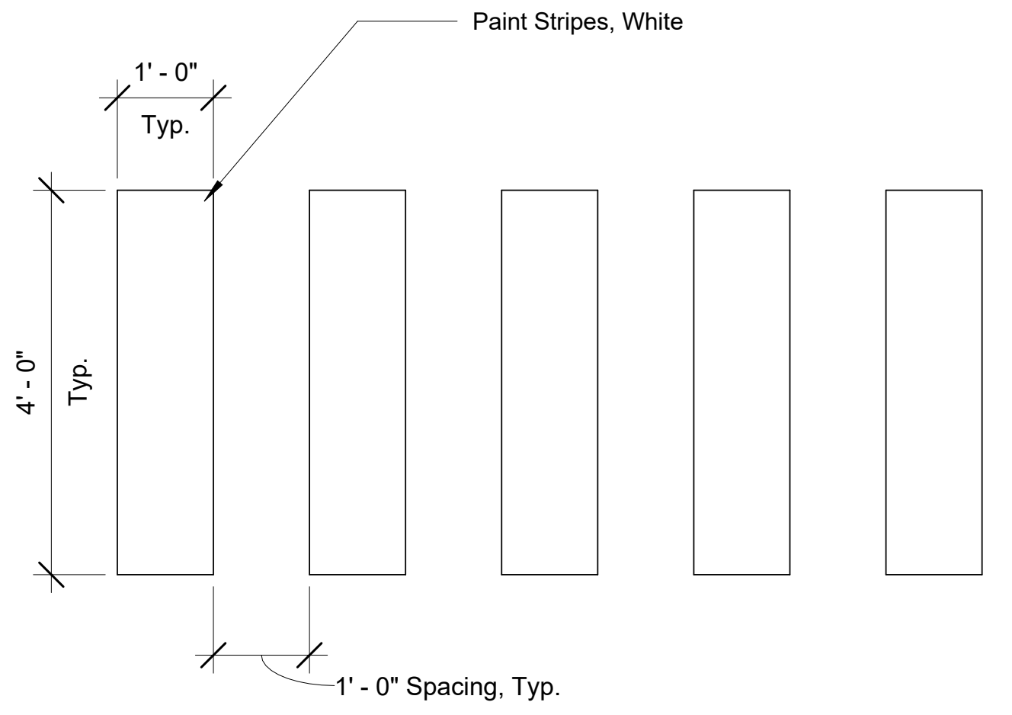

4"
1/4"
Trowel Smoothed Joint (Flush)
SITE CONCRETE IMPROVEMENTS, Site Concrete
1/4 of total thickness
R 1/4" Typ.
See CIVIL for thickness

N11 SITE CONCRETE IMPROVEMENTS, Weakened Plane Joint

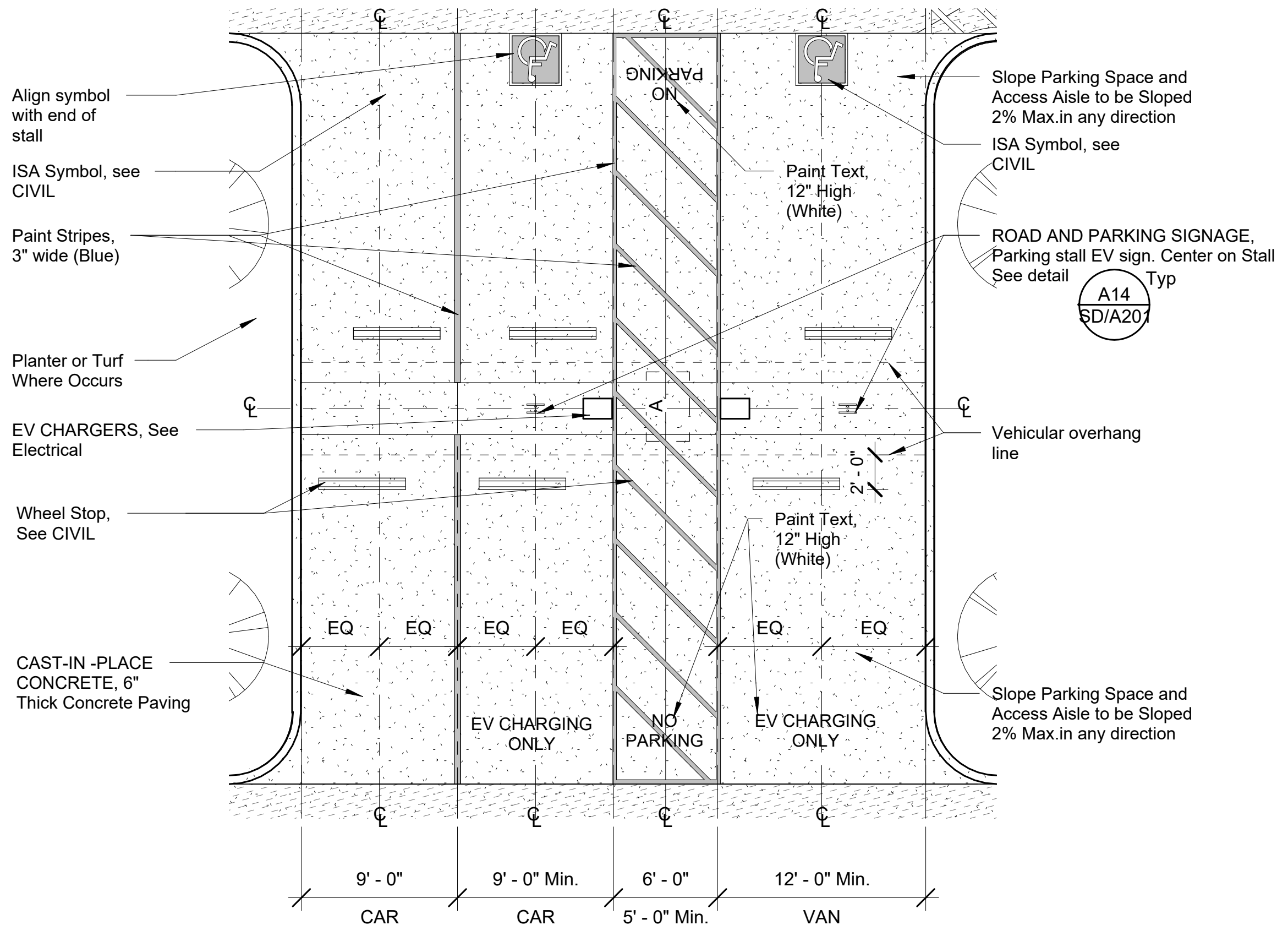
3" = 1'-0"



TYPICAL CROSSWALKS

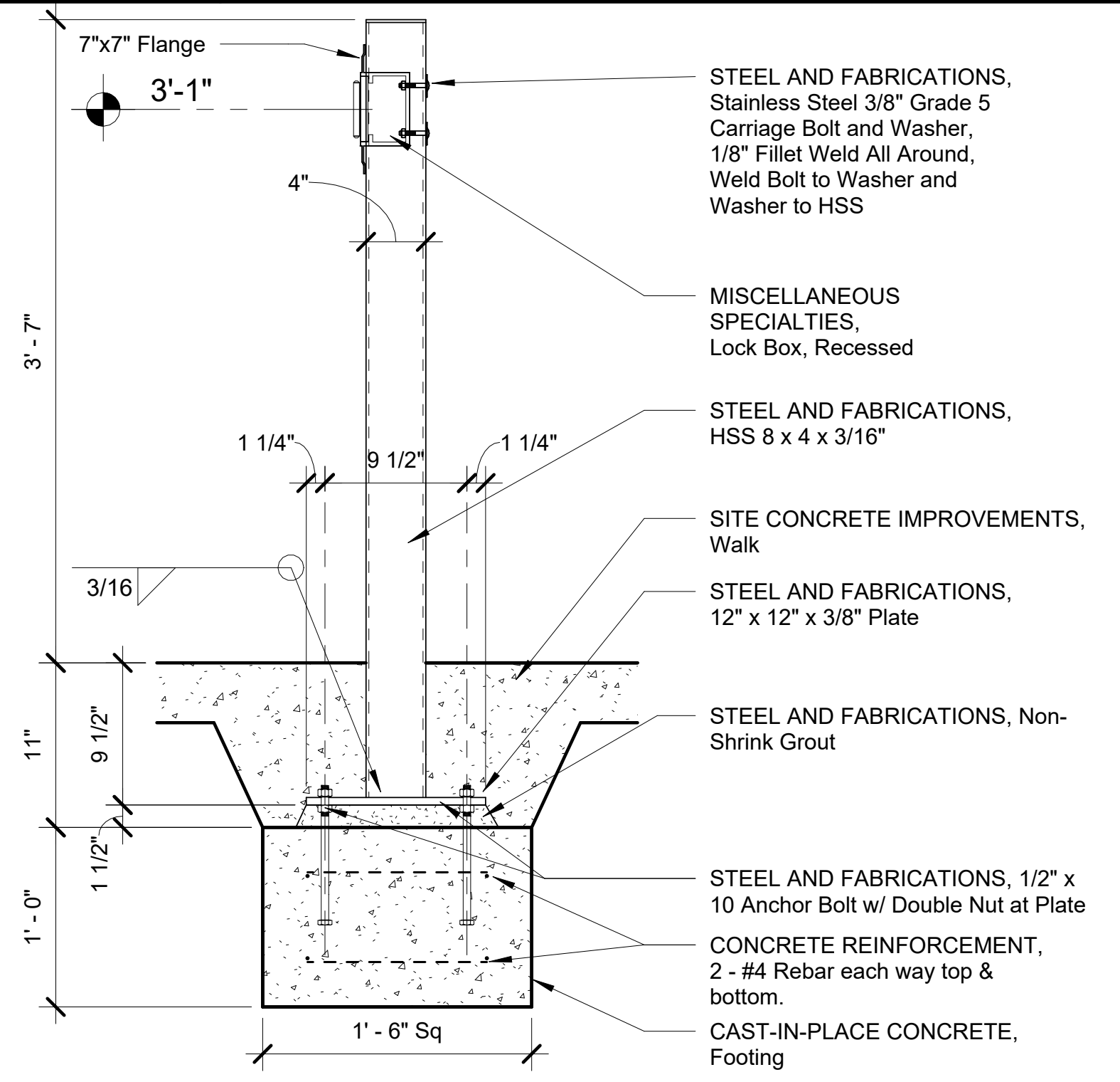
N14 PAVEMENT MARKINGS, Crosswalk Striping

1/2" = 1'-0"


Align symbol with end of stall
ISA Symbol, see CIVIL
Paint Stripes, 3" wide (Blue)
Planter or Turf Where Occurs
EV CHARGERS, See Electrical
Wheel Stop, See CIVIL
CAST-IN -PLACE CONCRETE, 6" Thick Concrete Paving
NO PARKING
Paint Text, 12" High (White)
Slope Parking Space and Access Aisle to be Sloped 2% Max.in any direction
ISA Symbol, see CIVIL
ROAD AND PARKING SIGNAGE, Parking stall EV sign. Center on Stall See detail A14 SD/A201 Typ
Vehicular overhang line
2' - 0"
A
EQ
EQ
EQ
EQ
EQ
EQ
EV CHARGING ONLY
NO PARKING
EV CHARGING ONLY
Slope Parking Space and Access Aisle to be Sloped 2% Max.in any direction
9' - 0"
9' - 0" Min.
6' - 0"
12' - 0" Min.
CAR
CAR
5' - 0" Min.
VAN

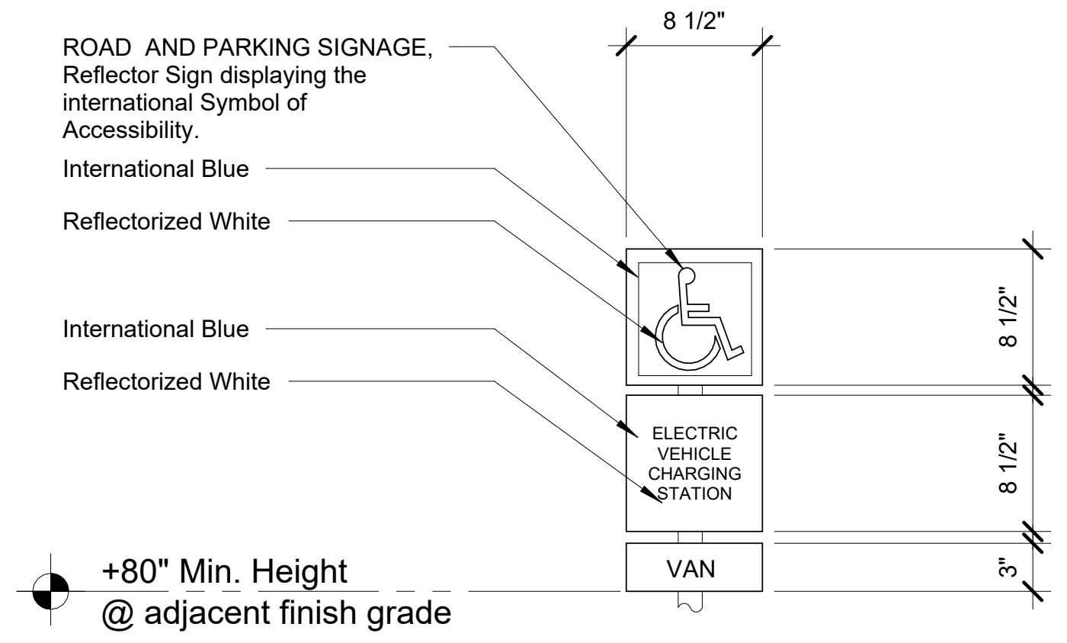
E7 CAST-IN-PLACE CONCRETE, Accessible & EV Parking Stalls, Parking Lot A

1/8" = 1'-0"

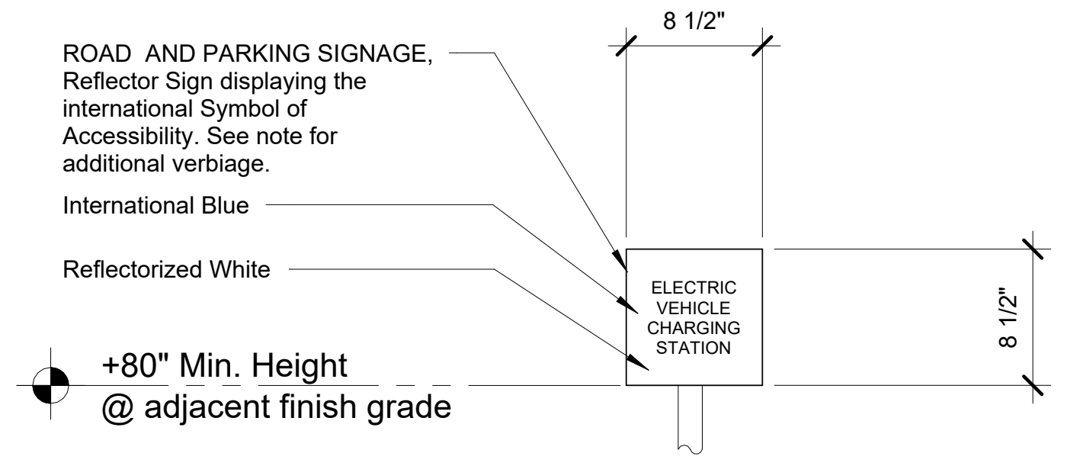

7"x7" Flange
3'-1"
4"
3' - 7"
1 1/4"
9 1/2"
1 1/4"
3/16
11"
9 1/2"
1 1/2"
1' - 0"
1' - 6" Sq
STEEL AND FABRICATIONS, Stainless Steel 3/8" Grade 5 Carriage Bolt and Washer, 1/8" Fillet Weld All Around, Weld Bolt to Washer and Washer to HSS
MISCELLANEOUS SPECIALTIES, Lock Box, Recessed
STEEL AND FABRICATIONS, HSS 8 x 4 x 3/16"
SITE CONCRETE IMPROVEMENTS, Walk
STEEL AND FABRICATIONS, 12" x 12" x 3/8" Plate
STEEL AND FABRICATIONS, Non-Shrink Grout
STEEL AND FABRICATIONS, 1/2" x 10 Anchor Bolt w/ Double Nut at Plate
CONCRETE REINFORCEMENT, 2 - #4 Rebar each way top & bottom.
CAST-IN-PLACE CONCRETE, Footing

J14 STEEL AND FABRICATIONS, Knox Box Bollard

1" = 1'-0"


8 1/2"
ROAD AND PARKING SIGNAGE, Reflector Sign displaying the international Symbol of Accessibility.
International Blue
Reflectorized White
International Blue
Reflectorized White
ELECTRIC VEHICLE CHARGING STATION
VAN
8 1/2"
8 1/2"
3"
+80" Min. Height @ adjacent finish grade

VAN ACCESSIBLE EV CHARGING STALLS


8 1/2"
ROAD AND PARKING SIGNAGE, Reflector Sign displaying the international Symbol of Accessibility. See note for additional verbiage.
International Blue
Reflectorized White
ELECTRIC VEHICLE CHARGING STATION
8 1/2"
+80" Min. Height @ adjacent finish grade

STANDARD EV CHARGING STALLS

EV CHARGING AND EV AMBULATORY STALL SIGNAGE

A14 ROAD AND PARKING SIGNAGE, EV Charging Stall Signage

1" = 1'-0"

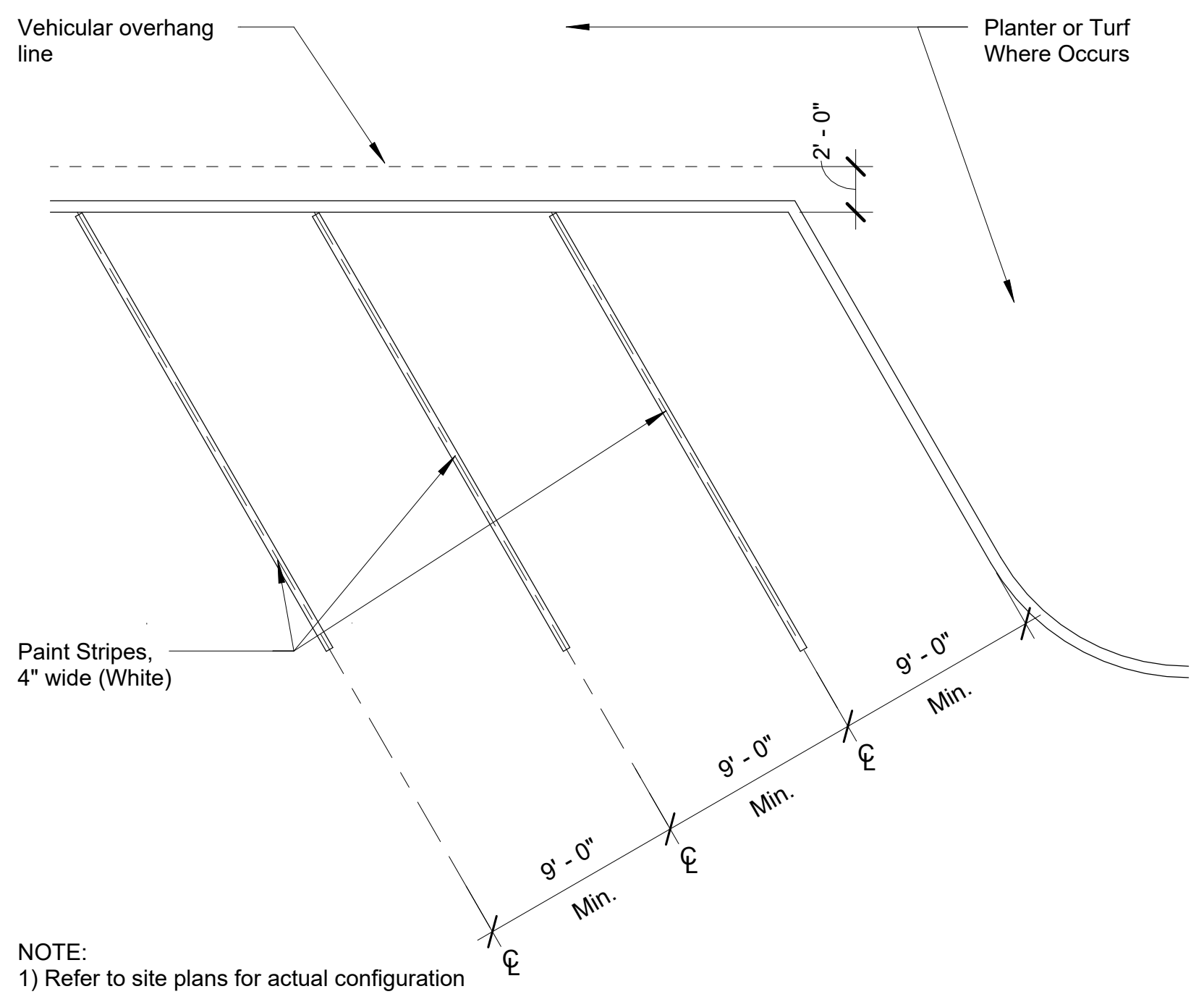
Site Gate Schedule

Door No.	Frame Type	Size			Door Material	Gate Type			Threshold	Hardware	Comments
		Width	Height	Thickness			Head	Jamb		Group	
SG01		4' - 0"	6' - 0"	2"	OM	OM	-	See Civil	-	98G	
SG02		30' - 0"	6' - 0"	2"	OM	OM	-	See Civil	-	01PAD	
SG03		18' - 8"	6' - 0"	2"	OM	OM	-	See Civil	-	01PAD	
SG05		4' - 0"	6' - 0"	2"	OM	OM	-	See Civil	-	98G	
SG06		4' - 0"	6' - 0"	2"	OM	OM	-	See Civil	-	98G	
SG08		4' - 0"	6' - 0"	2"	OM	OM	-	See Civil	-	98G	
SG09		4' - 0"	6' - 0"	2"	OM	OM	-	See Civil	-	98G	
SG10		4' - 0"	6' - 0"	2"	OM	OM	-	See Civil	-	98G	
SG11		3' - 0"	6' - 0"	1 3/4"	OM	F	-	See Civil	-	01PAD	
SG12		30' - 0"	6' - 0"	1 3/4"	Chainlink	PCL					
SG13		30' - 0"	6' - 0"	2"	OM	OM				01PAD	
SG14		4' - 0"	6' - 0"	2"	OM	OM				98G	
SG16		4' - 0"	6' - 0"	2"	OM	OM					
SG100		22' - 0"	6' - 0"	1 3/4"	Chainlink	PCL					Existing
SG101		12' - 0"	6' - 0"	1 3/4"	Chainlink	PCL					Existing
SG102		6' - 0"	6' - 0"	1 3/4"	Chainlink	CL					Existing
SG103		4' - 0"	6' - 0"	1 3/4"	Chainlink	CL					Existing

Note: SG04 not used.

A1 Site Gate Schedule

No Scale



NOTE:
1) Refer to site plans for actual configuration

A11 PAVEMENT, 60 Degree Parking Stalls

1/8" = 1'-0"

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

Community Day School Modernization
Merced City School District
Merced, CA, 95340

Project

SITE DEVELOPMENT
SITE DEVELOPMENT DETAILS

Drawing

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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

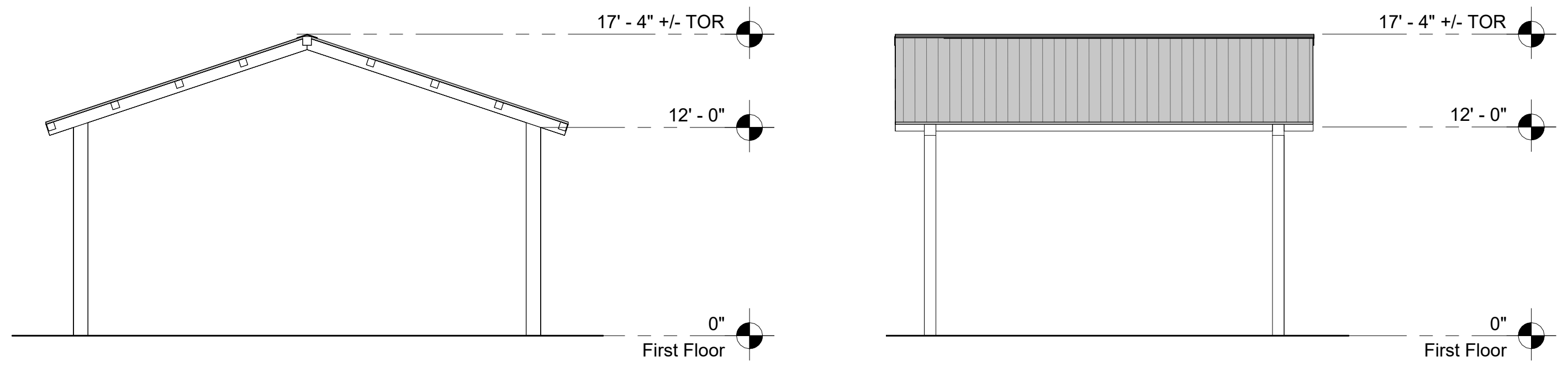
Architect

No.	Revision/Submission	Date

Revision

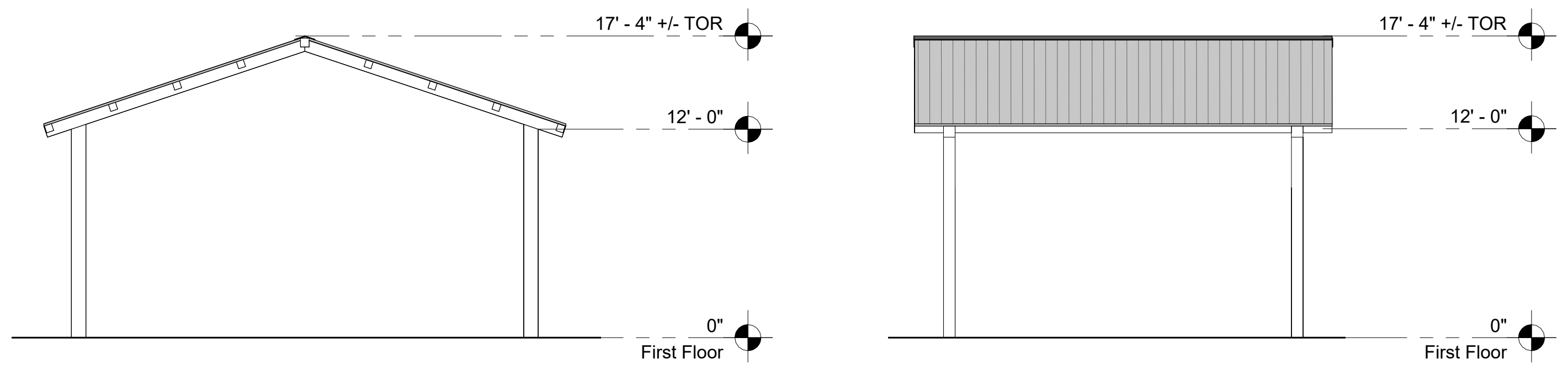
	Designed By: -	Copyright 2026 Darden Architects
Scale: As indicated	Drawn By: -	SD/A201
Project Number: 2533	Checked By: -	
Date: 2/9/2026	Reviewed By: -	

2/6/2026 11:27:19 AM
D:\Revit Local Files\2533_CDS_Mod_V24_BrandonhFXVM7.rvt



North, Shade Structure

East, Shade Structure

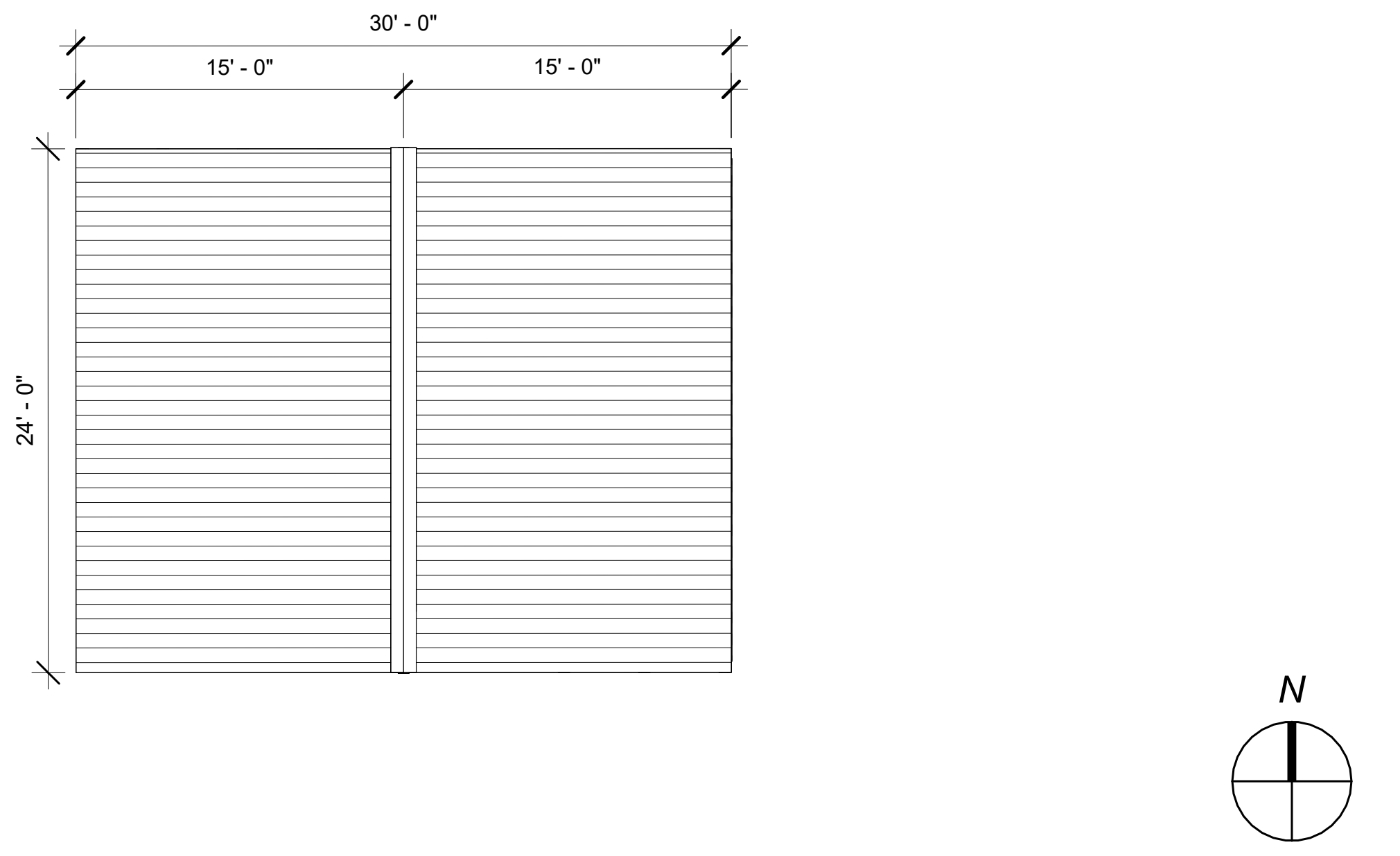


South, Shade Structure

West, Shade Structure

N11

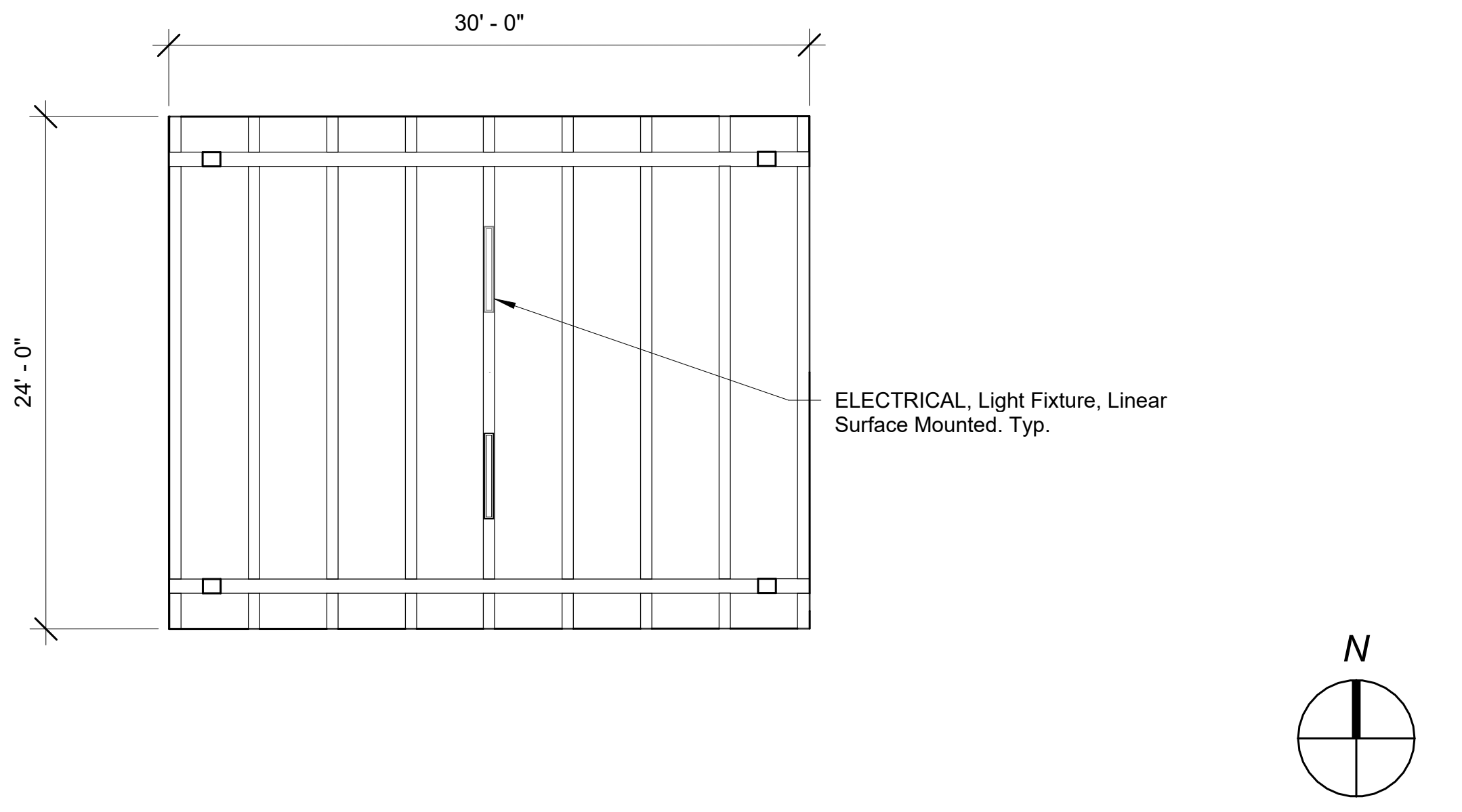
Exterior Elevations, Shade Structure S1



J11

1/8" = 1'-0"

Roof Plan, Shade Structure S1

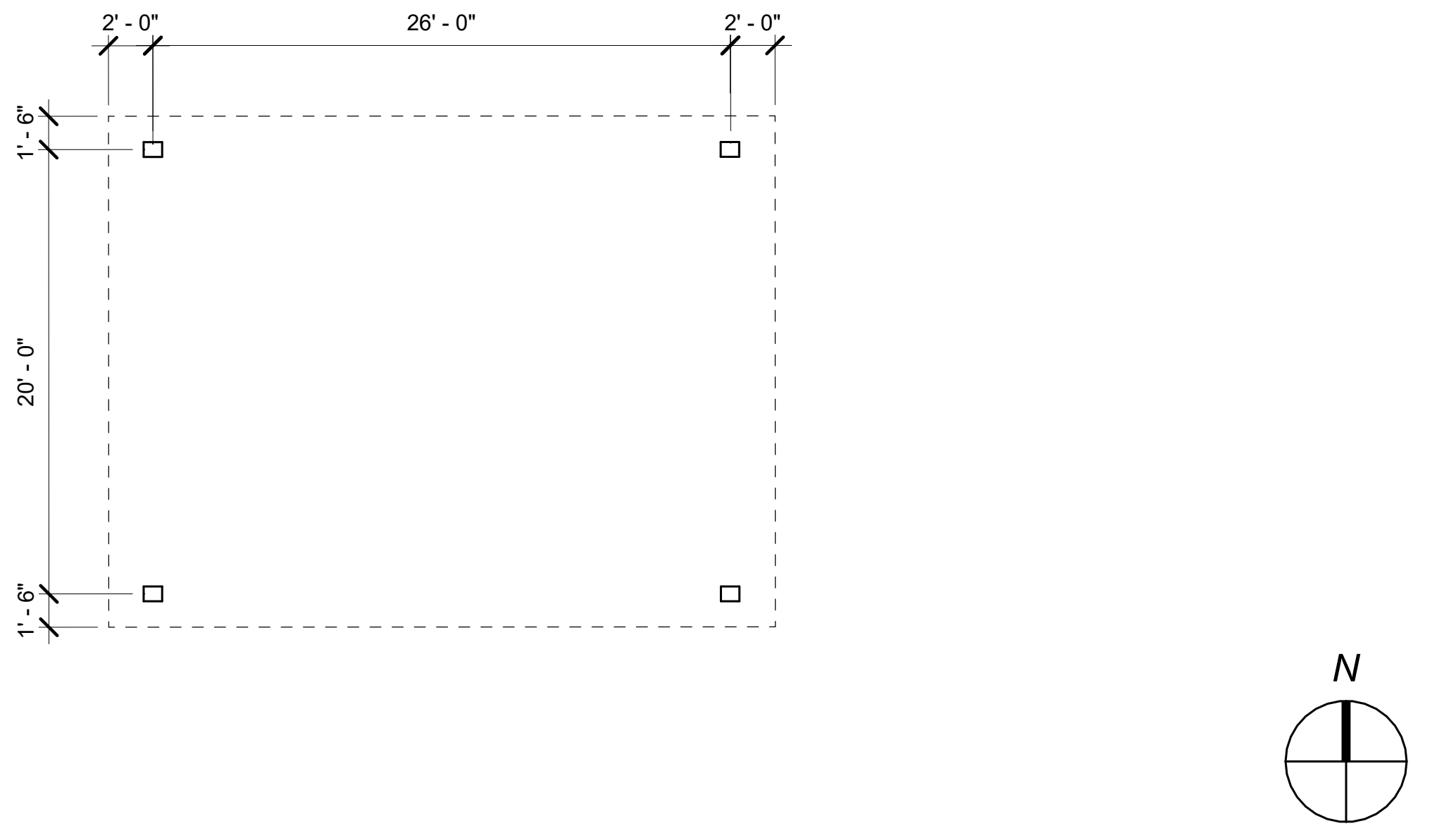


E11

1/8" = 1'-0"

Reflected Ceiling Plan, Shade Structure S1

Refer to K18 for Legend Symbols, Abbreviations and Notes



A11

1/8" = 1'-0"

Floor Plan, Shade Structure S1

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

SYMBOLS

▭ ○ ▭	ELECTRICAL, Light Fixture, Recessed. Unless Noted Otherwise. (p) = Pendant Mounted (s) = Surface Mounted
▤	ELECTRICAL, Light Fixture, Linear Surface Mounted
▭	ELECTRICAL, Light Fixture, Linear Surface Mounted
⊕	Reference Point

ABBREVIATIONS

CLG	Ceiling
HT	Height
MD	METAL DECK
TYP	Typical
SIM	Similar
OH	Opposite hand
DS	Downspout
OD	Overflow Drain
UNO	Unless Noted Otherwise

NOTES

1. Ceiling Heights indicated are above Finish Floor at each floor level, UNO.
2. Single Lights or Single Rows of Lights at Soffits/ Ceilings shall be centered, UNO.

K18

Reflected Ceiling Legend

No Scale

Community Day School Modernization
Merced City School District
Merced, CA, 95340

Project

SITE DEVELOPMENT
SITE DETAILS - SHADE STRUCTURE

Drawing

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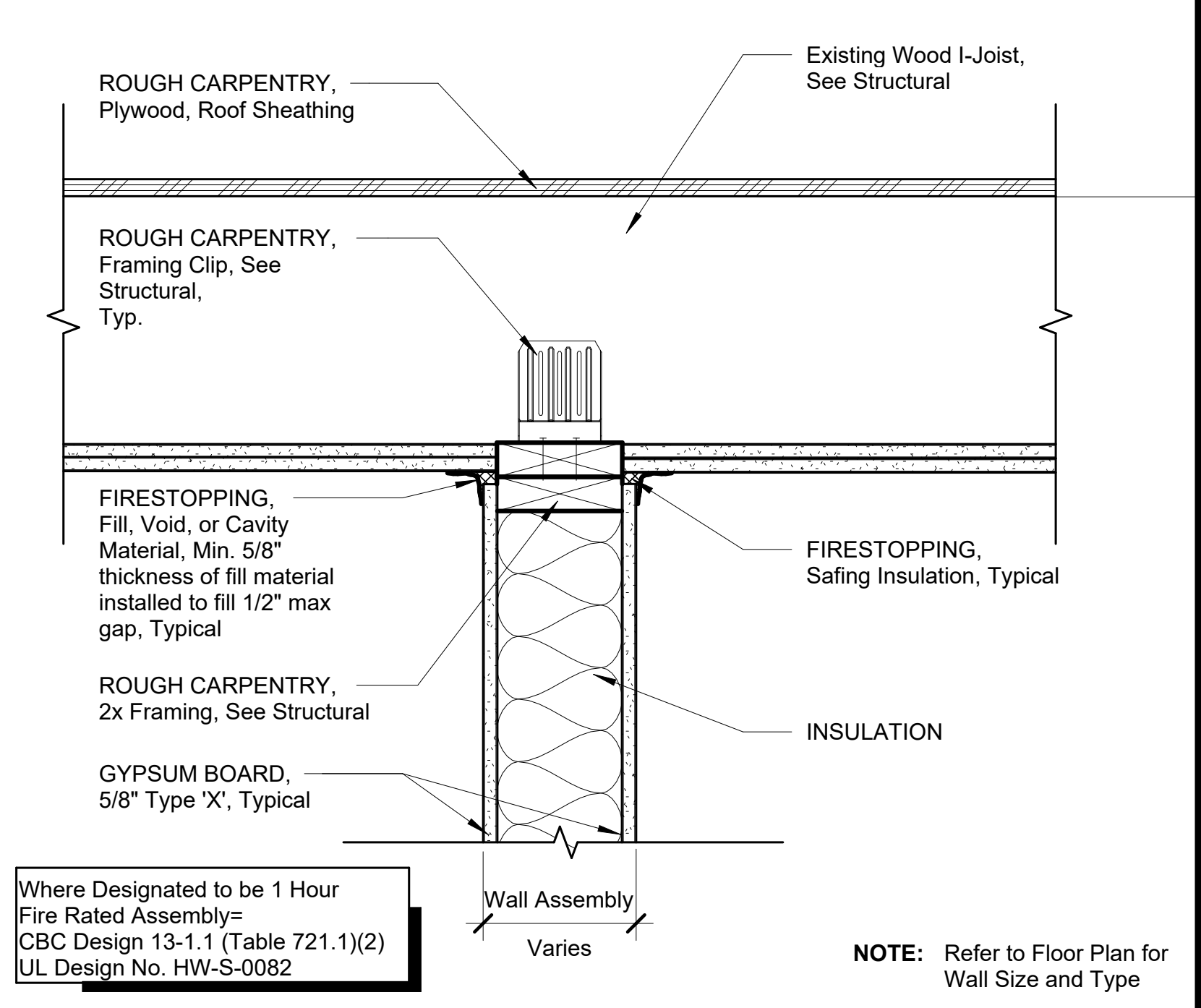
LICENSED ARCHITECT
GRANT E. DODSON
No. C-20,307
Ren. 6-30-27
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: -	
Scale: 1/8" = 1'-0"	Drawn By: -	*SD/A202*
Project Number: 2533	Checked By: -	
Date: 2/9/2026	Reviewed By: -	

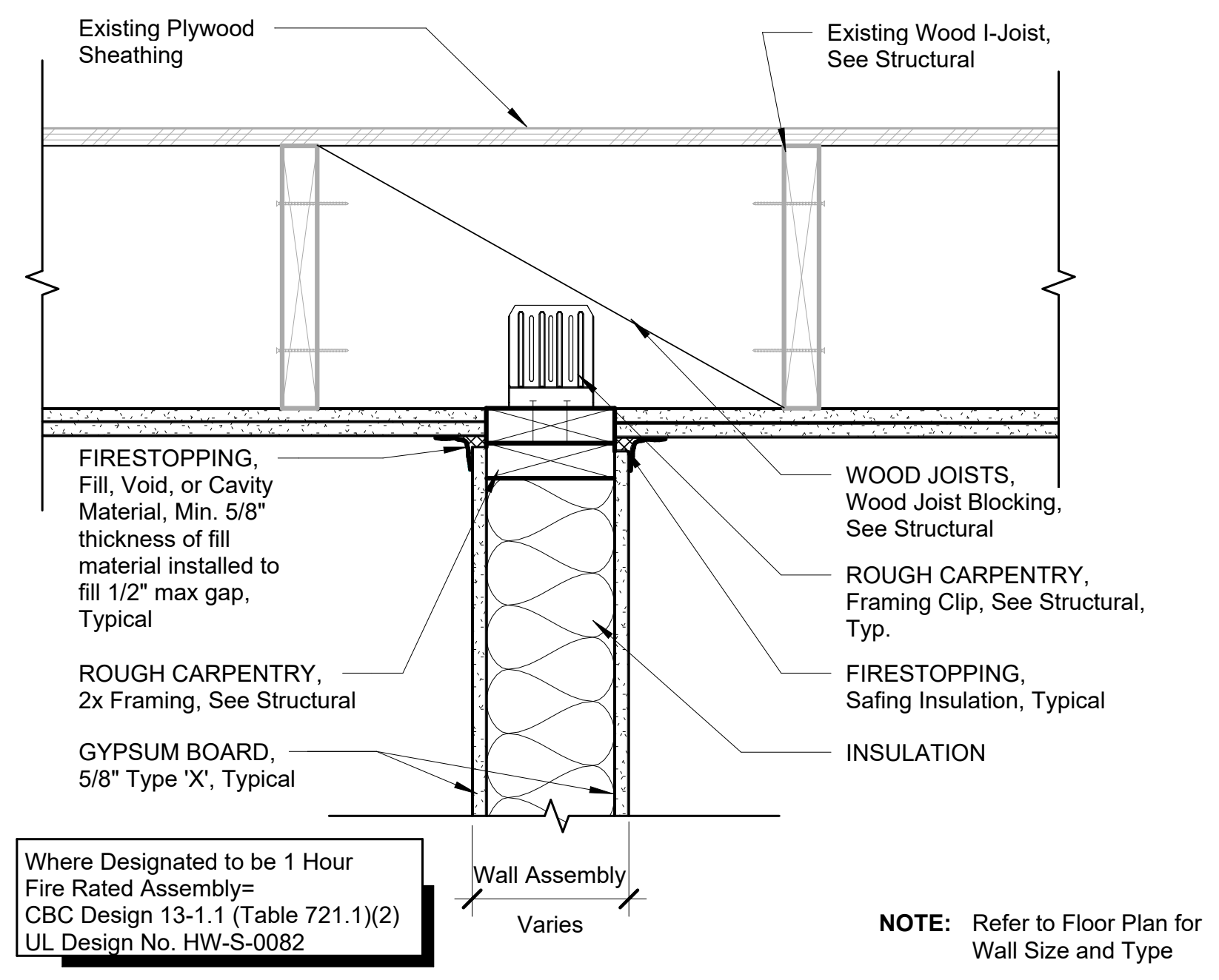


Where Designated to be 1 Hour
Fire Rated Assembly=
CBC Design 13-1.1 (Table 721.1)(2)
UL Design No. HW-S-0082

NOTE: Refer to Floor Plan for Wall Size and Type

N7 ROUGH CARPENTRY, Fire Rated Full Height Wall, Perpendicular to Joists

1 1/2" = 1'-0"



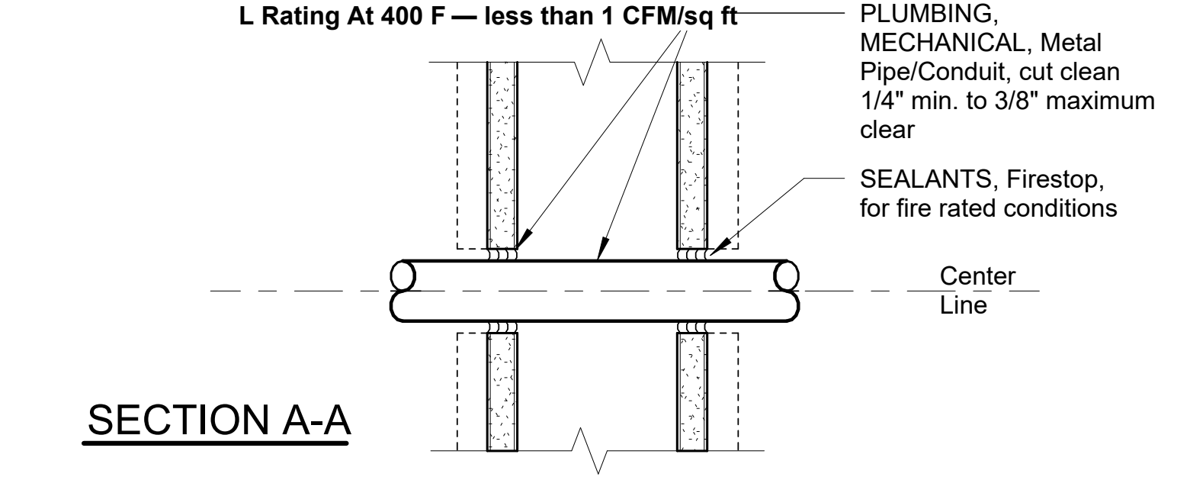
Where Designated to be 1 Hour
Fire Rated Assembly=
CBC Design 13-1.1 (Table 721.1)(2)
UL Design No. HW-S-0082

NOTE: Refer to Floor Plan for Wall Size and Type

J7 ROUGH CARPENTRY, Fire Rated Full Height Wall, Parallel to Joists

1 1/2" = 1'-0"

System No. W-L-1001
June 15, 2005
F Ratings — 1, 2, 3 and 4 Hr (See Items 2 and 3)
T Ratings — 0, 1, 2, 3, and 4 Hr (See Item 3)
L Rating At Ambient — less than 1 CFM/sq ft
L Rating At 400 F — less than 1 CFM/sq ft



NOTE: For 1" or larger Pipe/Conduit sizes,
see Mechanical, Plumbing and Electrical drawings.

1. **Wall Assembly —** The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or 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 (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. (610 mm) OC.
B. **Gypsum Board* —** Nom 1/2 or 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in.

2. **Through-Penetrant —** One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (point contact) to max 2 in. 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 24 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. **Iron Pipe —** Nom 24 in. diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
C. **Conduit —** Nom 6 in. diam (or smaller) steel conduit or nom 4 in diam (or smaller) steel electrical metallic tubing
D. **Copper Tubing —** Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing
E. **Copper Pipe —** Nom 6 in. 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. , 1-1/4,1-7/8 and 2-1/2 in. thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam In (mm)	**F Rating Hr**	**T Rating Hr**
1 (25)	1 or 2	0+, 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

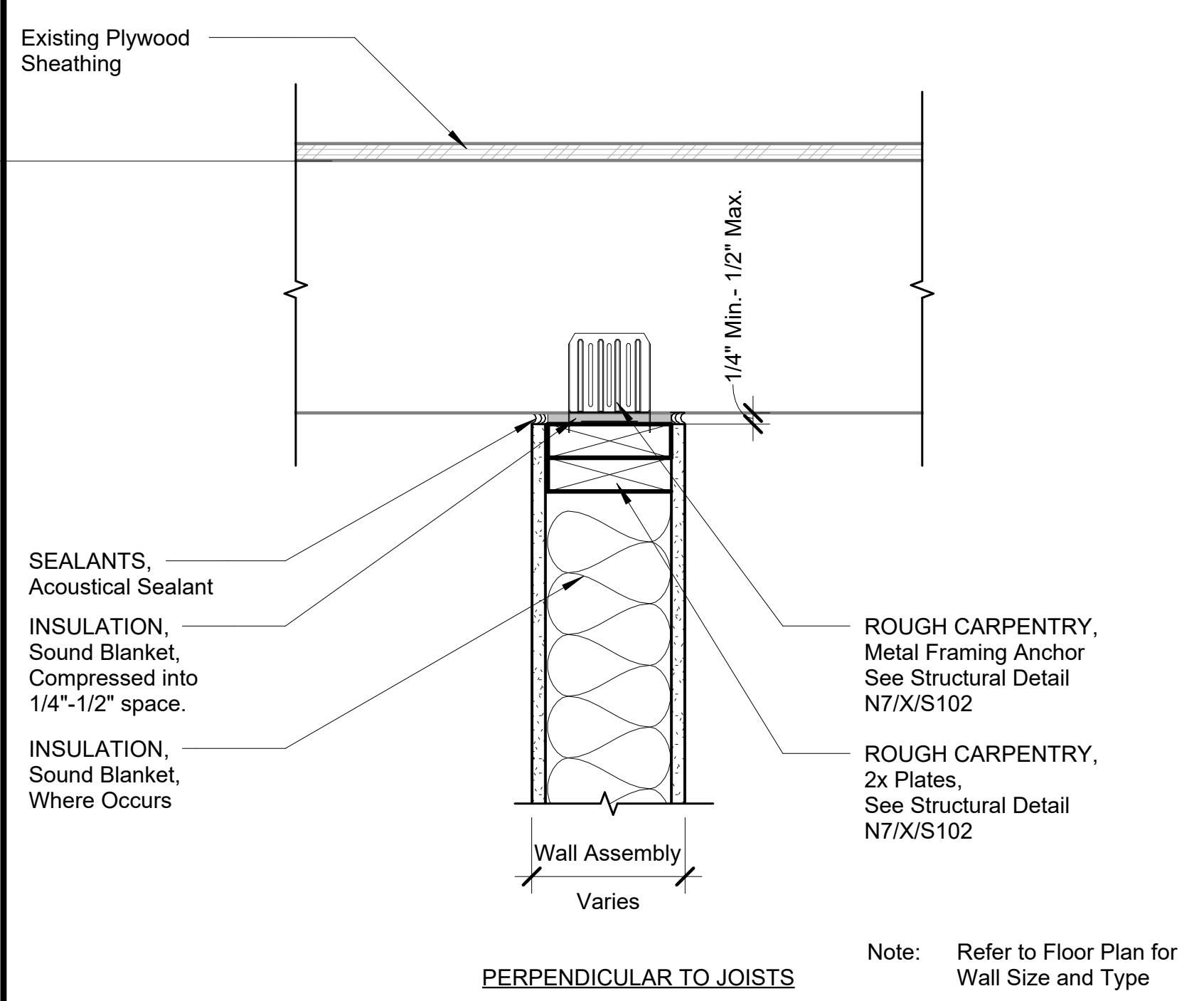
+When copper pipe is used, T Rating is 0 h.

3M COMPANY — CP 25WB+ or FB-3000 WT.

Note:
For Floor Penetrations refer to detail on Sheet X/E101.

A7 FIRESTOPPING, Through Wall Penetration

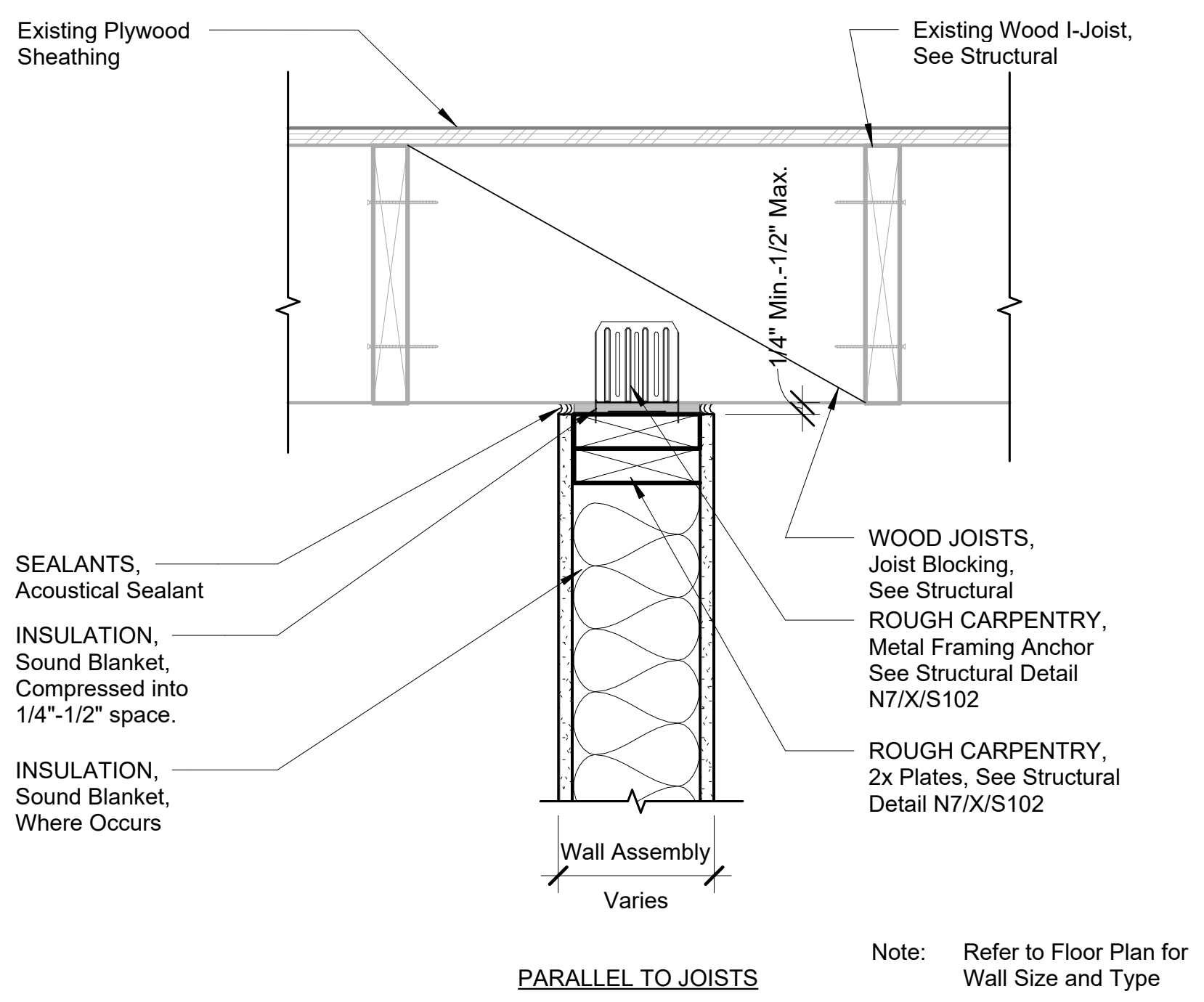
3" = 1'-0"



Note: Refer to Floor Plan for Wall Size and Type

N11 ROUGH CARPENTRY, Non-Bearing Wall Top Plate

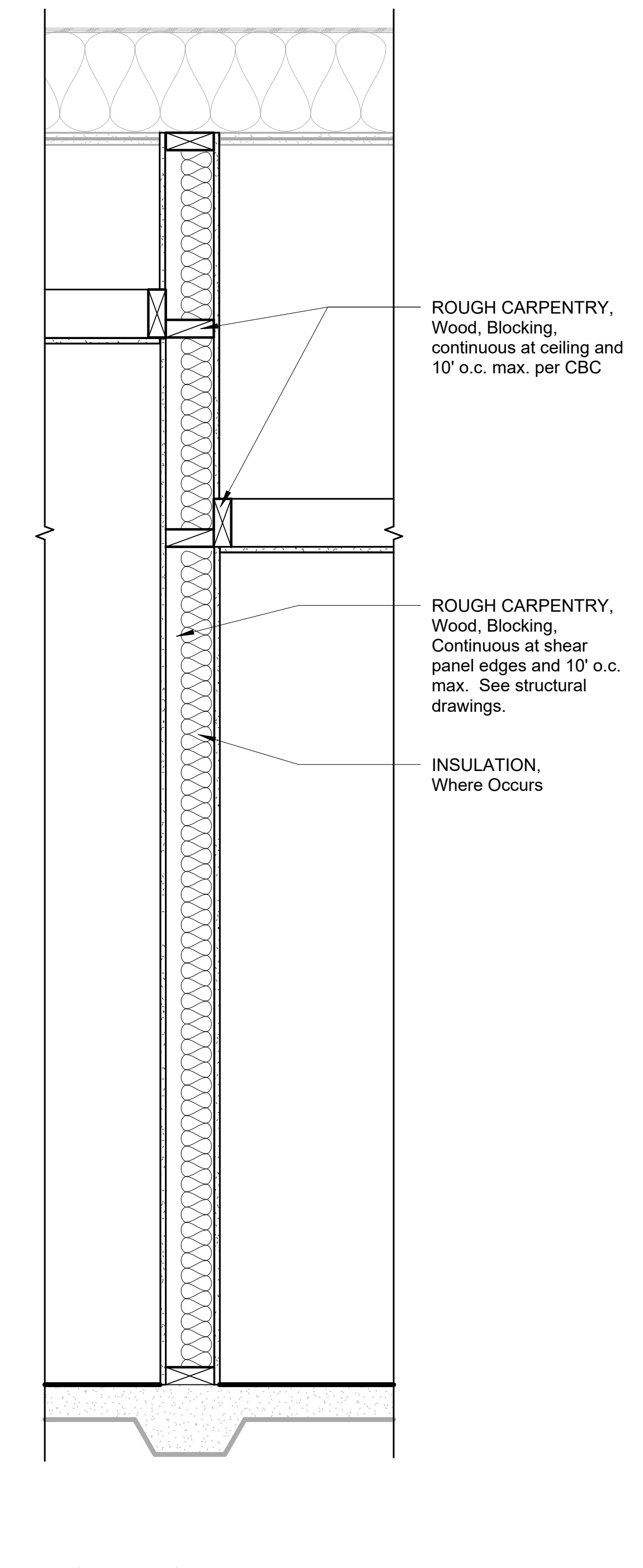
1 1/2" = 1'-0"



Note: Refer to Floor Plan for Wall Size and Type

J11 ROUGH CARPENTRY, Non-Bearing Wall Top Plate

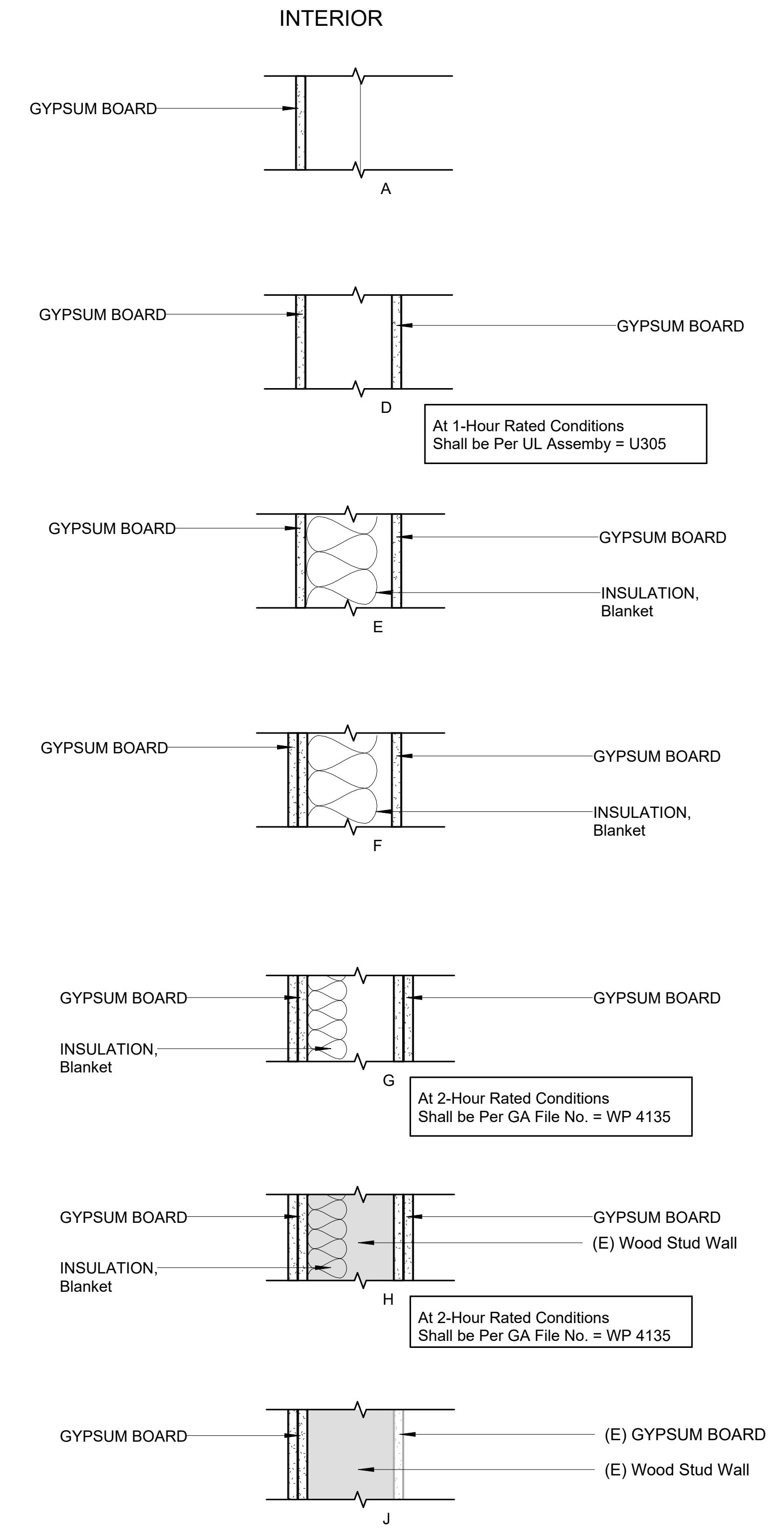
1 1/2" = 1'-0"



NOTE:
See BUILDING DATA for
Type of Construction

A11 ROUGH CARPENTRY, Wall Fire Blocking

3/4" = 1'-0"



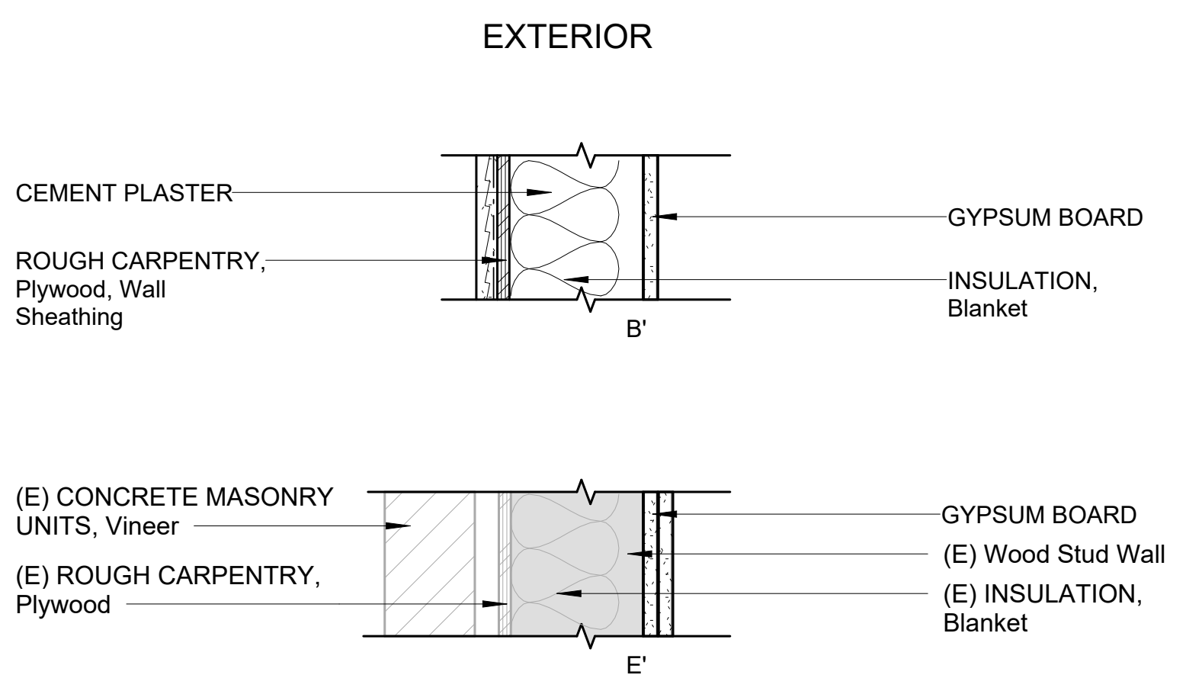
At 1-Hour Rated Conditions
Shall be Per UL Assemby = U305

At 2-Hour Rated Conditions
Shall be Per GA File No. = WP 4135

At 2-Hour Rated Conditions
Shall be Per GA File No. = WP 4135

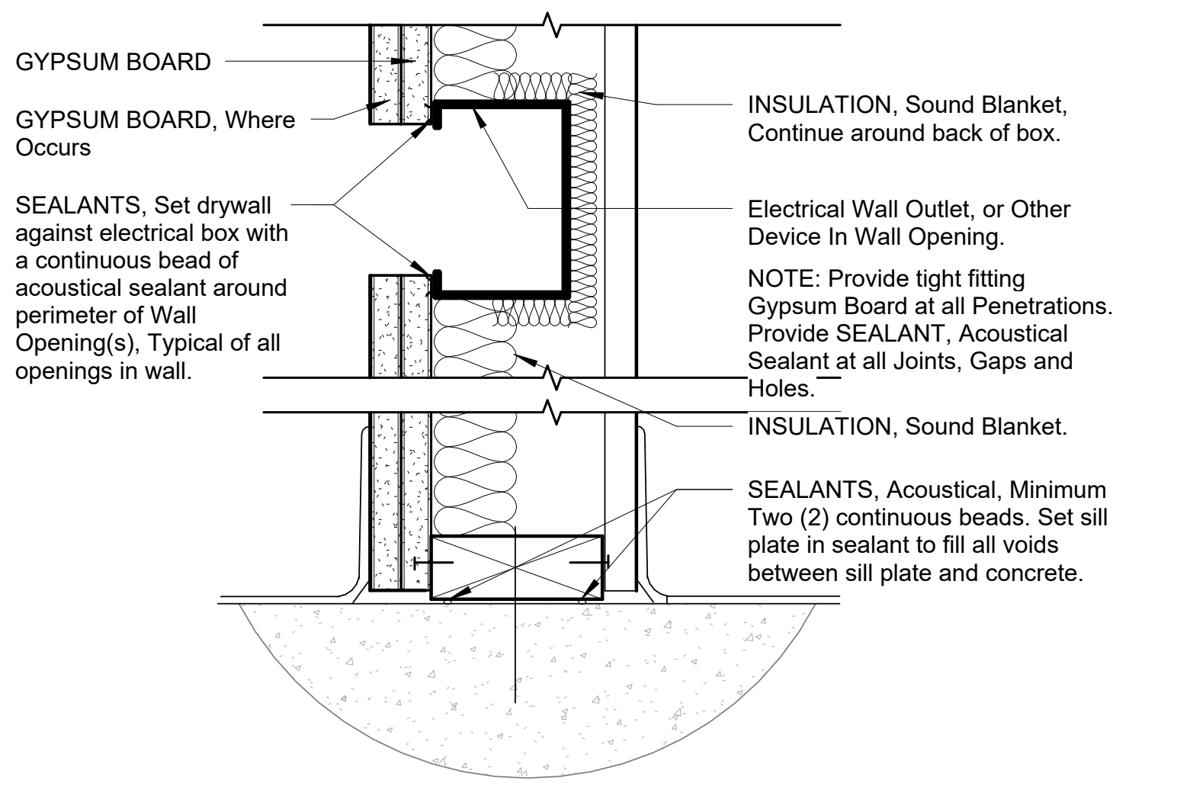
J14 Interior Wall Assembly

1 1/2" = 1'-0"



E14 Exterior Wall Assembly

1 1/2" = 1'-0"


GYPSUM BOARD
GYPSUM BOARD, Where
Occurs
SEALANTS, Set drywall
against electrical box with
a continuous bead of
acoustical sealant around
perimeter of Wall
Opening(s), Typical of all
openings in wall.
INSULATION, Sound Blanket,
Continue around back of box.
Electrical Wall Outlet, or Other
Device In Wall Opening.
INSULATION, Sound Blanket.
SEALANTS, Acoustical, Minimum
Two (2) continuous beads. Set sill
plate in sealant to fill all voids
between sill plate and concrete.

NOTE: Provide tight fitting Gypsum Board at all Penetrations. Provide SEALANT, Acoustical Sealant at all Joints, Gaps and Holes.

A14 INSULATION, Sound Rated Wall Base and Wall Openings

3" = 1'-0"

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

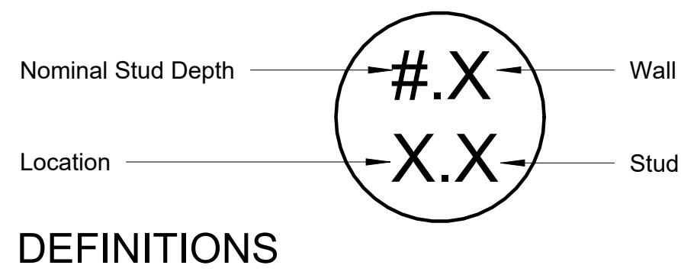
NOTES

1. These Schedules are provided for the convenience of the Contractor. All conditions and dimensions shall be field verified prior to any fabrication.
2. The intent of these schedules is to indicate the various layers of materials which comprise the different Wall Assembles.
3. Refer to the Exterior Elevations and Exterior Finish Schedule for additional Wall Covering and for Material Finishes.
4. Refer to the Interior Elevations and Interior Finish Schedule for additional Wall Coverings and for Material Finishes.
5. Provide a continuous Thermal Blanket Insulation at all walls designated as Exterior Walls. Refer to the Specification Section for the Insulation Type and location for Installation.
6. Provide a continuous Sound Blanket at walls designated as Interior walls where insulation is indicated as part of Assembly.
7. Refer to Floor Plans for Typical and Special Wall Assemblies References.
8. Refer to the Floor Plans for Walls that are Designated to be Rated Assemblies.
9. WALLS:
   A. Construct Walls per Typical Wall Assemblies. Note the details referenced, show typical single stud construction.
10. FIRE RATED WALLS.
   A. Refer to Floor Plans for Fire Resistive Rating of Typical Wall Assemblies.
   B For Fire-Rated Wall details, Refer to Details A7/X/A101 Typ, J7/X/A101 Typ, N7/X/A101 Typ
   C. Fire Resistive Construction shall take Precedence over Sound Wall Construction.
   D. FIRE RESISTIVE CONSTRUCTION:
      1. Refer to the Floor Plans for Walls that are Designated to be Rated Assemblies.
      2. Stud size may exceed the minimum, and stud spacing may be less than the maximum stated in the referenced Fire Rated Assemblies. Refer to the Floor Plan Wall Assembly Symbols, Legends and Structural drawings for Stud Size and Spacing.

CBC Design XX-X.X (Table 720)	= Refer to California Building Code, Chapter 7 For Fire Resistive Standards and Notes.
FRDM Design WP-XXXX	= Refer to Gypsum Association Fire Resistive Design Manual for Fire Resistive Standards and Notes.
UL Fire Resistive Design U-4xx	= Refer to Underwriters Laboratories Fire Resistance Directory for Fire Resistive Standards and Notes.

   E. Construct Walls per Typical and Special Wall Assemblies. Note the details referenced, show typical single stud construction. Construct special Wall Assembles similarly.
   Non-Bearing Walls:
   1) Connection to Floor or Roof Decks, Refer to Details J11/X/A101 Typ, N11/X/A101 Typ

WALL ASSEMBLY SYMBOLS



DEFINITIONS
LOCATION

E = Exterior
I = Interior
A = Acoustical

STUD MATERIAL

W = Wood
M = Metal

NOMINAL STUD DEPTH

	METAL	WOOD
3 =	3 5/8"	2 1/2"
4 =	4"	3 1/2"
6 =	6"	5 1/2"
8 =	8"	7 1/4"
10 =	10"	9 1/4"

9 = Special Wall Assemblies. Reserved for Special Construction, i.e., Multi-Stud Assemblies, refer to Special Wall Assembly Schedules

WALL ASSEMBLIES

See Typical and Special Wall Assemblies Schedules

G18 Typical Wall Assemblies Legend

No scale

Community Day School Modernization
Merced City School District
Merced, CA, 95340
Project

TYPICAL INFORMATION
WALL ASSEMBLIES
Drawing

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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27
Architect

No.	Revision/Submission	Date

Revision

Designed By: -
Drawn By: -
Checked By: -
Reviewed By: -
Scale: As indicated
Project Number: 2533
Date: 2/9/2026

X/A101

Interior Finish Schedule

		Floor Finishes					Base Finishes			Wall Finishes							Ceiling Finishes			Miscellanous Finishes			
Room Number	Room Name	RESILIENT SHEET, Vinyl Sheet	RESILIENT TILE, Luxury Vinyl Tile	CARPET, Broadloom	CARPET, Walk-off		RESILIENT BASE AND ACCESSORIES, Rubber Wall Base, 4"	RESILIENT SHEET, Integral Base		GYPSUM BOARD, Wallboard, (Texture GB-2)	WALL COVERINGS, FRP Panels, Moisture Resistant Gypsum Board (GB-3)	WALL COVERINGS, Vinyl Covered Tackboard over Gypsum Board (GB-3)	WALL PROTECTION, High Impact Wall Coverings	(E) Gypsum Board	WALL COVERINGS, Custom Vinyl Wallcovering over Gypsum Board (GB-4)		GYPSUM BOARD, Wallboard (Texture GB-2)	ACOUSTICAL CEILINGS, Suspension System		METAL DOORS AND FRAMES, Doors, Panels and Frames	WOOD DOORS	ACCESS DOORS AND FRAMES, Doors, Panels and Frames	Remarks
101	Office	-	-	FF	-		FF	-		DW-2	-	FF	-	DW-2	-		-	FF		M-2	-	-	
102	Director	-	-	FF	-		FF	-		DW-2	-	FF	-	DW-2	-		-	FF		M-2	-	-	
103	Reception	-	FF	-	-		FF	-		DW-2	-	FF	-	DW-2	FF		-	FF		M-2	-	-	
104	Staff RR	FF	-	-	-		-	FF		-	FF	-	-	-	-		DW-5	-		M-2	-	M-2	
105	Staff RR	FF	-	-	-		-	FF		-	FF	-	-	-	-		DW-5	-		M-2	-	M-2	
106	Calm Room	-	-	FF	FF		FF	-		-	-	-	FF	DW-2	-		-	FF		M-2	W-2	-	
107	Classroom	-	-	FF	FF		FF	-		DW-2	-	FF	-	DW-2	-		-	FF		M-2	-	-	
108	Boys	FF	-	-	-		-	FF		-	FF	-	-	-	-		DW-5	-		M-2	-	M-2	
109	Custodian	-	-	-	-		FF	-		DW-2	-	-	-	-	-		-	-			-	-	1
110	Girls	FF	-	-	-		-	FF		-	FF	-	-	-	-		DW-5	-		M-2	-	M-2	
111	Classroom	-	-	FF	FF		FF	-		DW-2	-	FF	-	DW-2	-		-	FF		M-2	-	-	
112	Classroom	-	-	FF	FF		FF	-		DW-2	-	FF	-	DW-2	-		-	FF		M-2	-	-	
113	Classroom	-	-	FF	FF		FF	-		DW-2	-	FF	-	DW-2	-		-	FF		M-2	-	-	
114	Psychologist	-	-	FF	FF		FF	-		DW-2	-	FF	-	DW-2	-		-	FF		M-2	-	-	
115	Counselor	-	-	FF	FF		FF	-		DW-2	-	FF	-	DW-2	-		-	FF		M-2	-	-	

J11
Interior Finish Schedule
No Scale
Refer to J18 for Notes

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

ABBREVIATIONS

CFS = Clear Floor Sealer
FF = Factory Finish
* = Refer To Remarks
(E) = Existing

Interior Paint Finishes:

Refer To Specification Section - PAINTING
CB-# = Concrete or Concrete Masonry Units
DW-# = Gypsum Board Finish
P-# = Cement Plaster
M-# = Metal Finish
W-# = Woodwork Finish
X-# = Special Finishes

NOTES

1. Refer to appropriate Specification Sections for Materials, Systems and Types.
2. All Details, Materials and Finishes shall be considered "Typical" for all similar conditions, Unless Otherwise Noted.
3. Do not paint Fire Rated Door and Frame Rating Plates.
4. Where changes in Floor Materials occur, refer to detail A14/X/A403 Typ
5. Refer to Interior Elevations and Interior Design sheets for additional information.
6. This Schedule is provided for the convenience of the Contractor. Field verify all conditions and dimensions prior to fabrication, installation or application.
7. See Appendix B, Interior Color Schedule for Finish / Material Colors.
8. Gypsum Board Textures indicated are for areas exposed to view. Areas above ceilings shall be GB5, Unless Otherwise Noted. Refer to Specifications for appropriate locations of other textures.
9. VAPOR-ALKALINITY CONTROL: Apply Vapor-Alkalinity Control Membrane System at all concrete slab areas scheduled to receive applied floor covering that are sensitive to and have requirements for limits of vapor transmission and pH levels."
10. SHEET METAL, MECHANICAL, ELECTRICAL, and PLUMBING, All items exposed to view to be M-2, UNO.
11. Refer to Reflected Ceiling Plan for Acoustical Ceiling Tile Type.
12. STEEL AND FABRICATIONS, All items exposed to view to be M-2, UNO.

REMARKS

1. Paint and RESILIENT BASE AND ACCESSORIES, Rubber base to be patched to match existing.

J18
Interior Finish Schedule Legend
No Scale

SITE DEVELOPMENT

MATERIAL	FINISH	REMARKS
PAVEMENT		
Asphalt Concrete	Slurry Seal	
Striping and Markings	X-1	
Wheelstops	Natural Cast Concrete	
SITE CONCRETE IMPROVEMENTS		
Curbs, Curb and Gutters, Mowstrips, Aprons, Valley Gutter, Housekeeping Pads, Site Light Pole Bases	Natural Cast Concrete	
Walks,	Broom Finish	
Sensory Play Area Hexagonal Weakened Plane Joints	Broom Finish w/ Trowel Smoothed Joints	
CONCRETE MASONRY UNITS		
Block, Block Veneer and Mortar	ECB-1	
STEEL AND FABRICATION		
Steel Gates and Frame, Rails Fencing and Gates, Supports Posts	EM-2	
METAL DOORS AND FRAMES		
Doors, Panels, Frames and Accessories	EM-2	
SHEET METAL		
Miscellaneous Flashings, Fence Parapet Caps	EM-2	
HARDWARE		
Steel Gates, Hinges, Hasps, Cane Bolts, etc.	EM-2	
Ornamental Gates, Hinges, Hasps, Cane Bolts, etc.	EM-2	
ORNAMENTAL METAL		
Fence, Gates, Accessories	EM-2	

BUILDINGS

MATERIAL	FINISH	REMARKS
CAST-IN-PLACE CONCRETE		
Columns, Walls	Light Sandblast	
CONCRETE MASONRY UNITS		
Block, Block Veneer and Mortar	ECB-1	
STEEL AND FABRICATION		
Columns, Beams	EM-2	All Steel Exposed to View
Posts and All Misc. Items	EM-2	All Steel Exposed to View
SHEET METAL		
Architectural	EM-2	Exposed to all Viewing Angles
Utility	Galvanized	
GLASS		
Glass	F.F.	
METAL DOORS AND FRAMES		
Doors, Panels, Frames and Louvers	EM-2	
CEMENT PLASTER		
Cement Plaster	EP-6	
Metal Accessories	EP-6	
Accessories, Special Trim Shape	F.F.	
MECHANICAL		
Exhaust Fans, Vent Stacks, Mechanical Units, & Misc. Equipment	EM-2	See Remark 1
ELECTRICAL		
Exposed to View Conduits	EM-2	
Switchgear, Transformer, Light Fixtures, Fire Alarm Devices, Speakers.	F.F.	

A1
Exterior Finish Schedule
No Scale
Refer to A14 for Notes

ABBREVIATIONS:

F.F. = Factory Finish

Exterior Paint Finishes:
Refer to Specification Section - PAINTING
ECB-x = Concrete or Concrete Masonry Units
X-x = Specialty Finish
EM-x = Exterior Metal Finish
EW-x = Exterior Wood Finish
EP-x = Cement Plaster

NOTES:

1. Refer to Appropriate Specification Sections for Materials and Systems.
2. All Details. Material and Finishes Shall be Considered "Typical" for all Similar Conditions Unless Noted Otherwise.
3. Refer to Exterior Elevations for extent of materials and finishes, Includes Backs of Parapets, Typical.

REMARKS

1 Do not paint Mechanical Units Condensing Coils and Name Plates.

A14
Ext. Fin. Schedule Legend
No Scale

Community Day School Modernization
Merced City School District
Merced, CA, 95340
Project

TYPICAL INFORMATION
INTERIOR AND EXTERIOR FINISH SCHEDULE
Drawing

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LICENSED ARCHITECT
GRANT E. DODSON
No. C-20,307
Ren. 6-30-27
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: -

Scale: As indicated
Drawn By: -
Project Number: 2533
Checked By: -
Date: 2/9/2026
Reviewed By: -

X/A201

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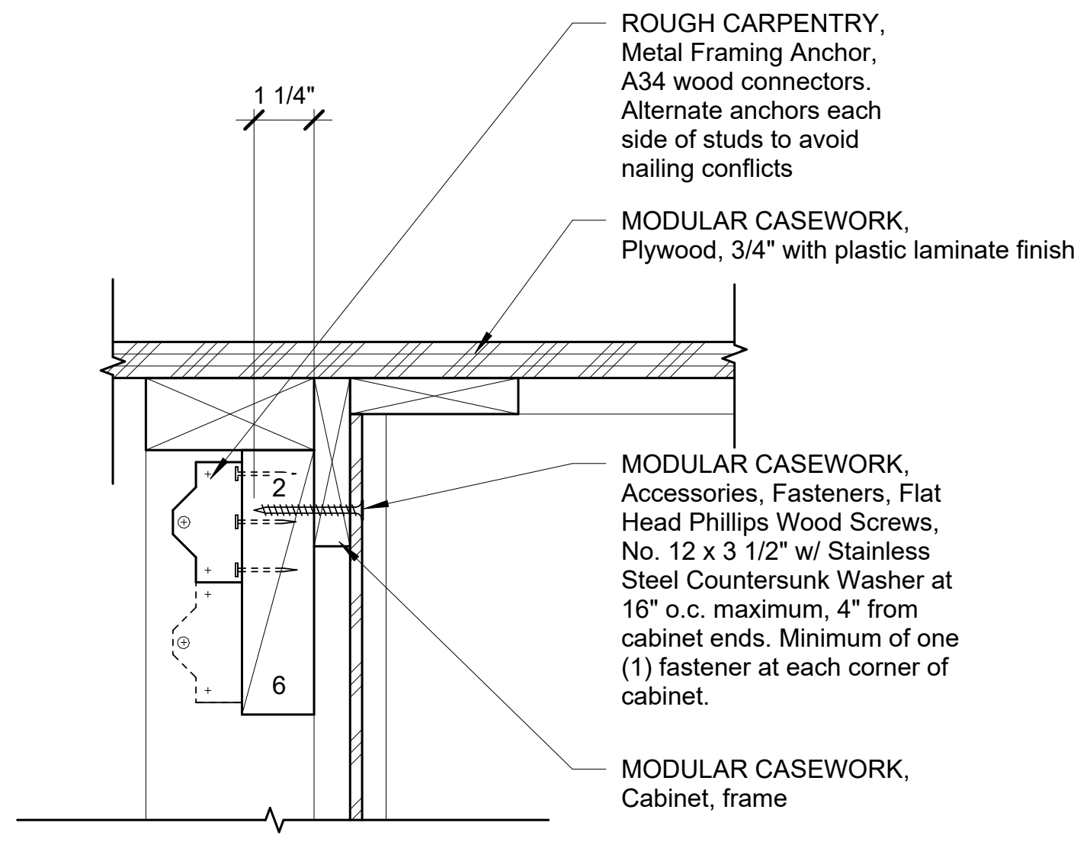
Casework Schedule

Room No	Group No.	Description	Catalog No.	No Req'd	Length	Height	Depth	Remarks
103	a 103	Solid Surface Wall Cap	Custom	1				2
103	a 103	Swinging Gate		1				
103	b 103	Base Cabinet w/ Drawers	230	1	1' - 6"	2' - 6 1/2"	1' - 9 1/4"	
103	b 103	Reception Counter	Custom	1				3
103	c 103	Base Cabinet w/ Drawers	223	2	1' - 6"	2' - 6 1/2"	1' - 11"	
103	c 103	Base Cabinet w/ Drawers	230	1	1' - 6"	2' - 6 1/2"	1' - 11"	
103	d 103	Tall Storage Cabinet	402	1	4' - 0"	5' - 0"	1' - 11"	
103	d 103	Tall Storage Cabinet	402	1	4' - 0"	7' - 4"	1' - 11"	
107	a 107	Base Cabinet w/o Drawers	101	1	2' - 0"	2' - 8 1/2"	1' - 11"	
107	a 107	Base Cabinet w/o Drawers	102	3	3' - 0"	2' - 8 1/2"	1' - 11"	
107	a 107	Wall Hung Cabinet	302	5	3' - 0"	2' - 10"	1' - 2"	
107	a 107	Tall Storage Cabinet	401	1	2' - 0"	7' - 4"	1' - 11"	
107	a 107	Tall Storage Cabinet	402	1	2' - 6"	7' - 4"	1' - 11"	
107	a 107	Base Cabinet w/ADA Plumbing Cover	157	1	4' - 0"	2' - 8 1/2"	1' - 11"	1
107	a 107	Counter Top	-	1		2' - 10"	2' - 0"	
111	a 111	Base Cabinet w/o Drawers	101	1	2' - 0"	2' - 8 1/2"	1' - 11"	
111	a 111	Base Cabinet w/o Drawers	102	3	3' - 0"	2' - 8 1/2"	1' - 11"	
111	a 111	Wall Hung Cabinet	302	5	3' - 0"	2' - 10"	1' - 2"	
111	a 111	Tall Storage Cabinet	402	2	3' - 4"	7' - 4"	1' - 11"	
111	a 111	Base Cabinet w/ADA Plumbing Cover	157	1	4' - 0"	2' - 8 1/2"	1' - 11"	1
111	a 111	Counter Top	-	1		2' - 10"	2' - 0"	
112	a 112	Base Cabinet w/o Drawers	101	1	1' - 3"	2' - 8 1/2"	1' - 11"	
112	a 112	Base Cabinet w/o Drawers	101	1	2' - 0"	2' - 8 1/2"	1' - 11"	
112	a 112	Base Cabinet w/o Drawers	102	4	3' - 0"	2' - 8 1/2"	1' - 11"	
112	a 112	Wall Hung Cabinet	302	5	3' - 0"	2' - 10"	1' - 2"	
112	a 112	Tall Storage Cabinet	402	1	2' - 8"	7' - 4"	1' - 11"	
112	a 112	Base Cabinet w/ADA Plumbing Cover	157	1	4' - 0"	2' - 8 1/2"	1' - 11"	1
112	a 112	Counter Top	-	2		2' - 10"	2' - 0"	
113	a 113	Base Cabinet w/o Drawers	101	1	2' - 0"	2' - 8 1/2"	1' - 11"	
113	a 113	Base Cabinet w/o Drawers	102	3	3' - 0"	2' - 8 1/2"	1' - 11"	
113	a 113	Wall Hung Cabinet	302	5	3' - 0"	2' - 10"	1' - 2"	
113	a 113	Tall Storage Cabinet	402	2	3' - 4"	7' - 4"	1' - 11"	
113	a 113	Base Cabinet w/ADA Plumbing Cover	157	1	4' - 0"	2' - 8 1/2"	1' - 11"	1
113	a 113	Counter Top	-	1		2' - 10"	2' - 0"	

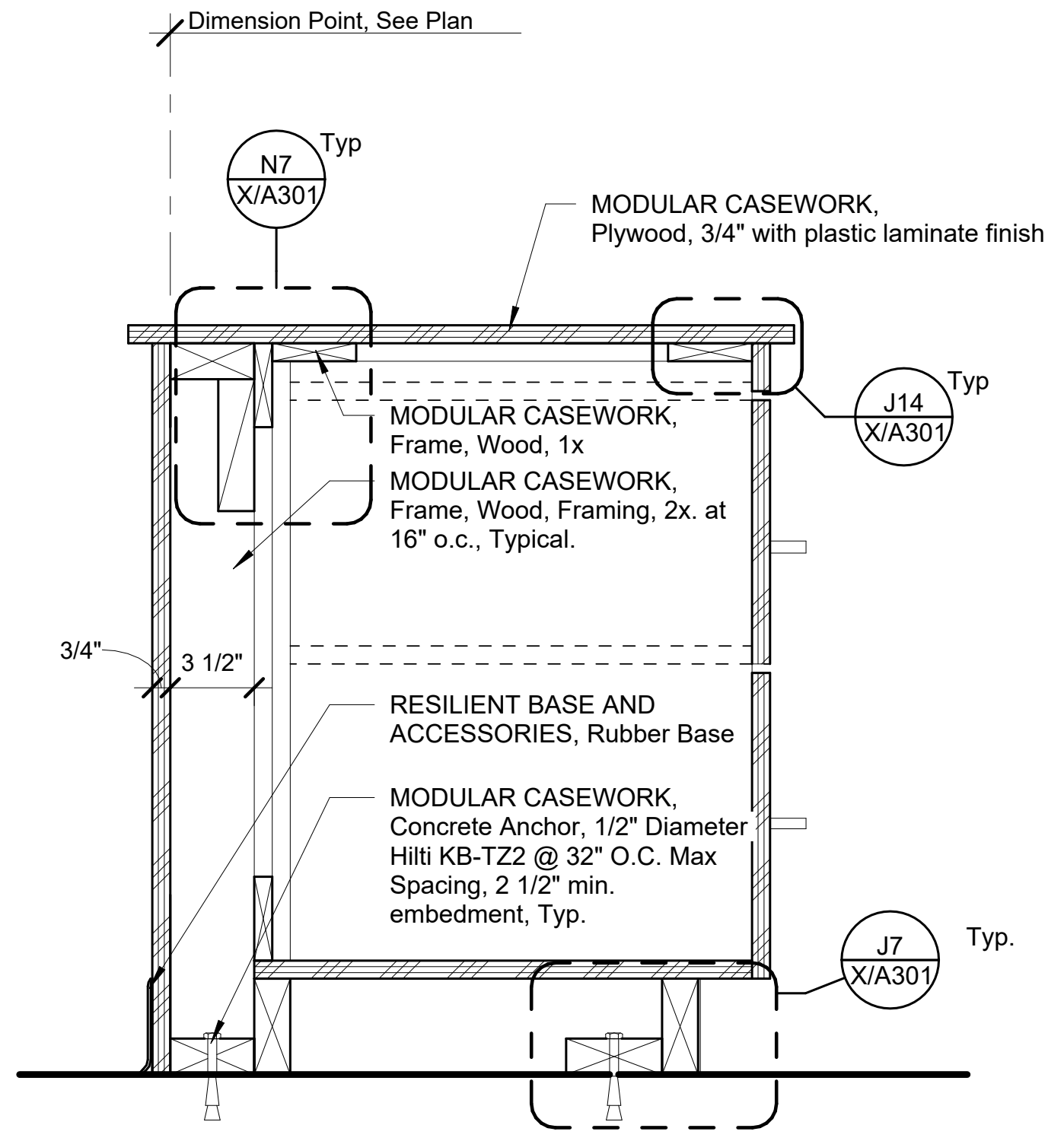
J1 Modular Casework Schedule

Refer to H18 for Legend Abbreviations, Notes and Comments


1 1/4"
ROUGH CARPENTRY, Metal Framing Anchor, A34 wood connectors. Alternate anchors each side of studs to avoid nailing conflicts
MODULAR CASEWORK, Plywood, 3/4" with plastic laminate finish
2
6
MODULAR CASEWORK, Accessories, Fasteners, Flat Head Phillips Wood Screws, No. 12 x 3 1/2" w/ Stainless Steel Countersunk Washer at 16" o.c. maximum, 4" from cabinet ends. Minimum of one (1) fastener at each corner of cabinet.
MODULAR CASEWORK, Cabinet, frame

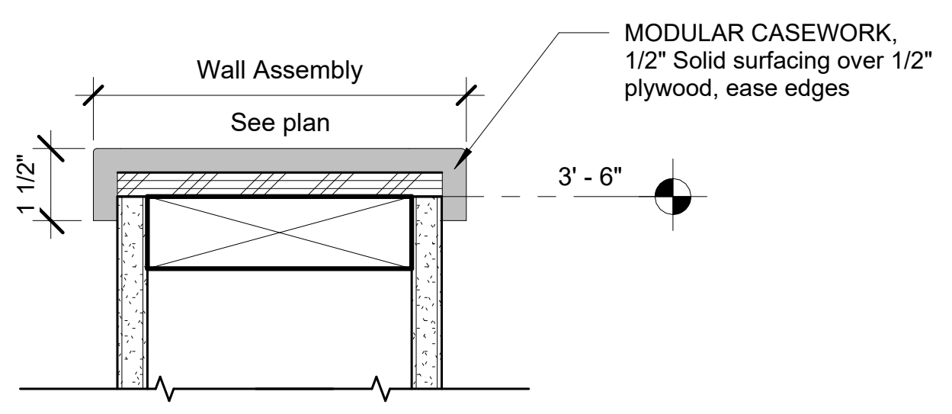
N7 MODULAR CASEWORK, Base Cabinet Anchorage

3" = 1'-0"


Dimension Point, See Plan
N7 X/A301 Typ
MODULAR CASEWORK, Plywood, 3/4" with plastic laminate finish
J14 X/A301 Typ
MODULAR CASEWORK, Frame, Wood, 1x
MODULAR CASEWORK, Frame, Wood, Framing, 2x. at 16" o.c., Typical.
3/4"
3 1/2"
RESILIENT BASE AND ACCESSORIES, Rubber Base
MODULAR CASEWORK, Concrete Anchor, 1/2" Diameter Hilti KB-TZ2 @ 32" O.C. Max Spacing, 2 1/2" min. embedment, Typ.
J7 X/A301 Typ.

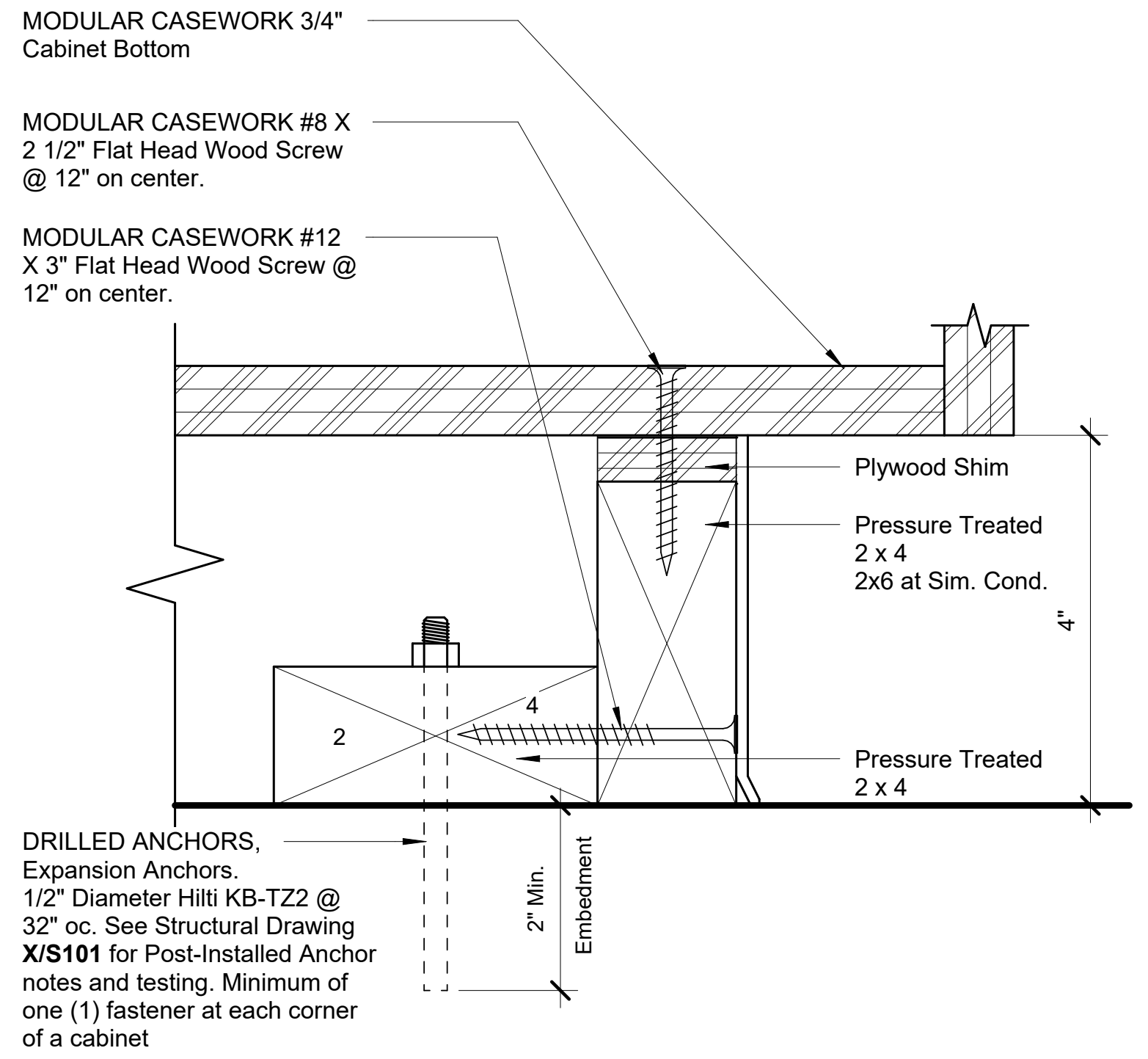
N11 MODULAR CASEWORK, Detail, Base Cabinet

1 1/2" = 1'-0"


Wall Assembly
See plan
1 1/2"
3' - 6"
MODULAR CASEWORK, 1/2" Solid surfacing over 1/2" plywood, ease edges

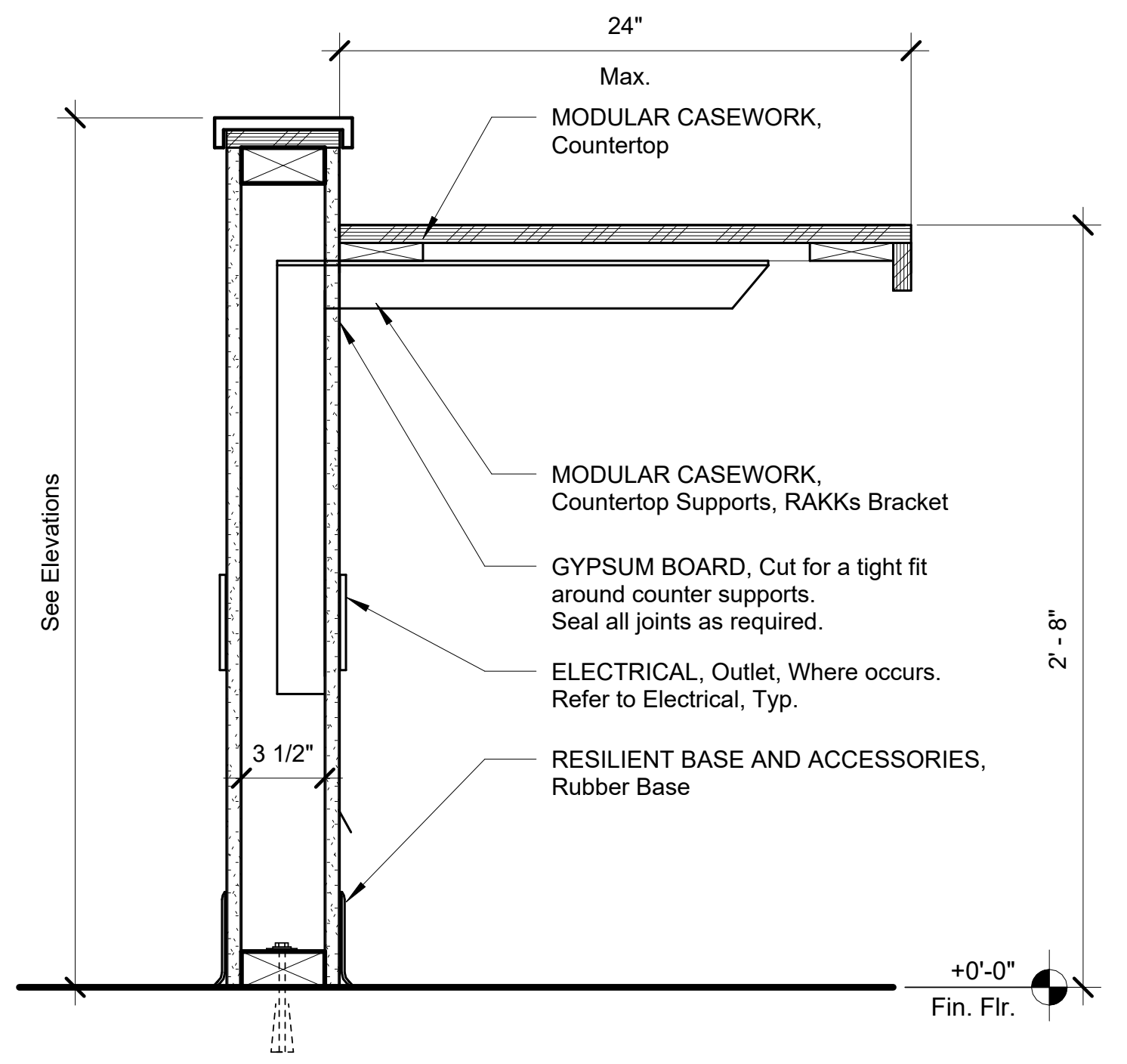
N14 MODULAR CASEWORK, Solid Surface Wall Cap

3" = 1'-0"


MODULAR CASEWORK 3/4" Cabinet Bottom
MODULAR CASEWORK #8 X 2 1/2" Flat Head Wood Screw @ 12" on center.
MODULAR CASEWORK #12 X 3" Flat Head Wood Screw @ 12" on center.
Plywood Shim
Pressure Treated 2 x 4 2x6 at Sim. Cond.
4"
2
4
Pressure Treated 2 x 4
DRILLED ANCHORS, Expansion Anchors. 1/2" Diameter Hilti KB-TZ2 @ 32" oc. See Structural Drawing X/S101 for Post-Installed Anchor notes and testing. Minimum of one (1) fastener at each corner of a cabinet
2" Min. Embedment

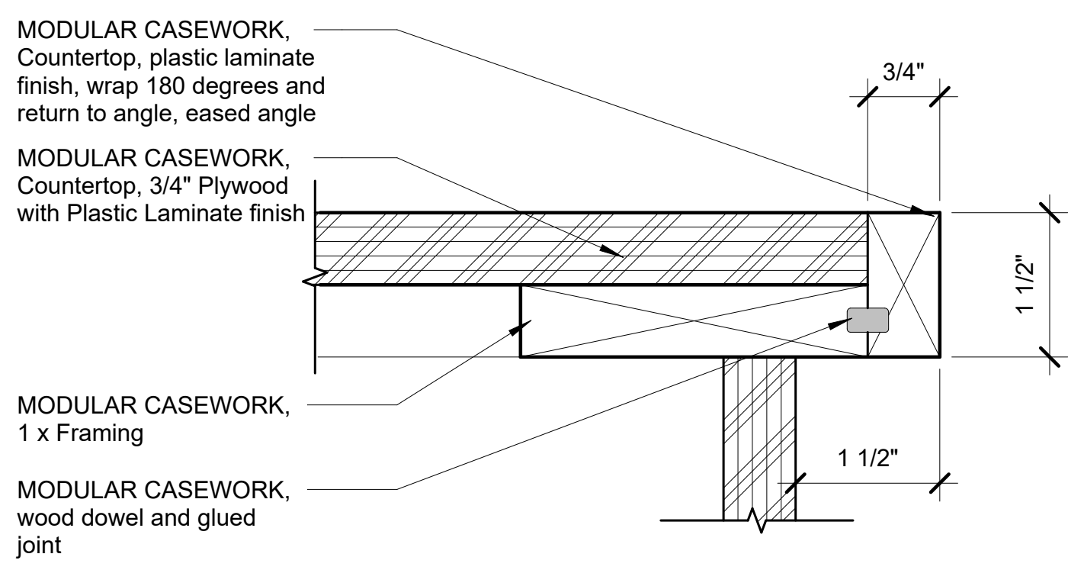
J7 MODULAR CASEWORK, Detail Cabinet Anchorage

6" = 1'-0"


24" Max.
MODULAR CASEWORK, Countertop
See Elevations
MODULAR CASEWORK, Countertop Supports, RAKKs Bracket
GYPSUM BOARD, Cut for a tight fit around counter supports. Seal all joints as required.
ELECTRICAL, Outlet, Where occurs. Refer to Electrical, Typ.
2' - 8"
3 1/2"
RESILIENT BASE AND ACCESSORIES, Rubber Base
+0'-0" Fin. Flr.

J11 MODULAR CASEWORK, Detail, Knee Space at Pony Wall

1 1/2" = 1'-0"


MODULAR CASEWORK, Countertop, plastic laminate finish, wrap 180 degrees and return to angle, eased angle
MODULAR CASEWORK, Countertop, 3/4" Plywood with Plastic Laminate Finish
3/4"
1 1/2"
MODULAR CASEWORK, 1 x Framing
MODULAR CASEWORK, wood dowel and glued joint
1 1/2"

J14 MODULAR CASEWORK, Countertop, Edges

6" = 1'-0"

TYPICAL NOTES

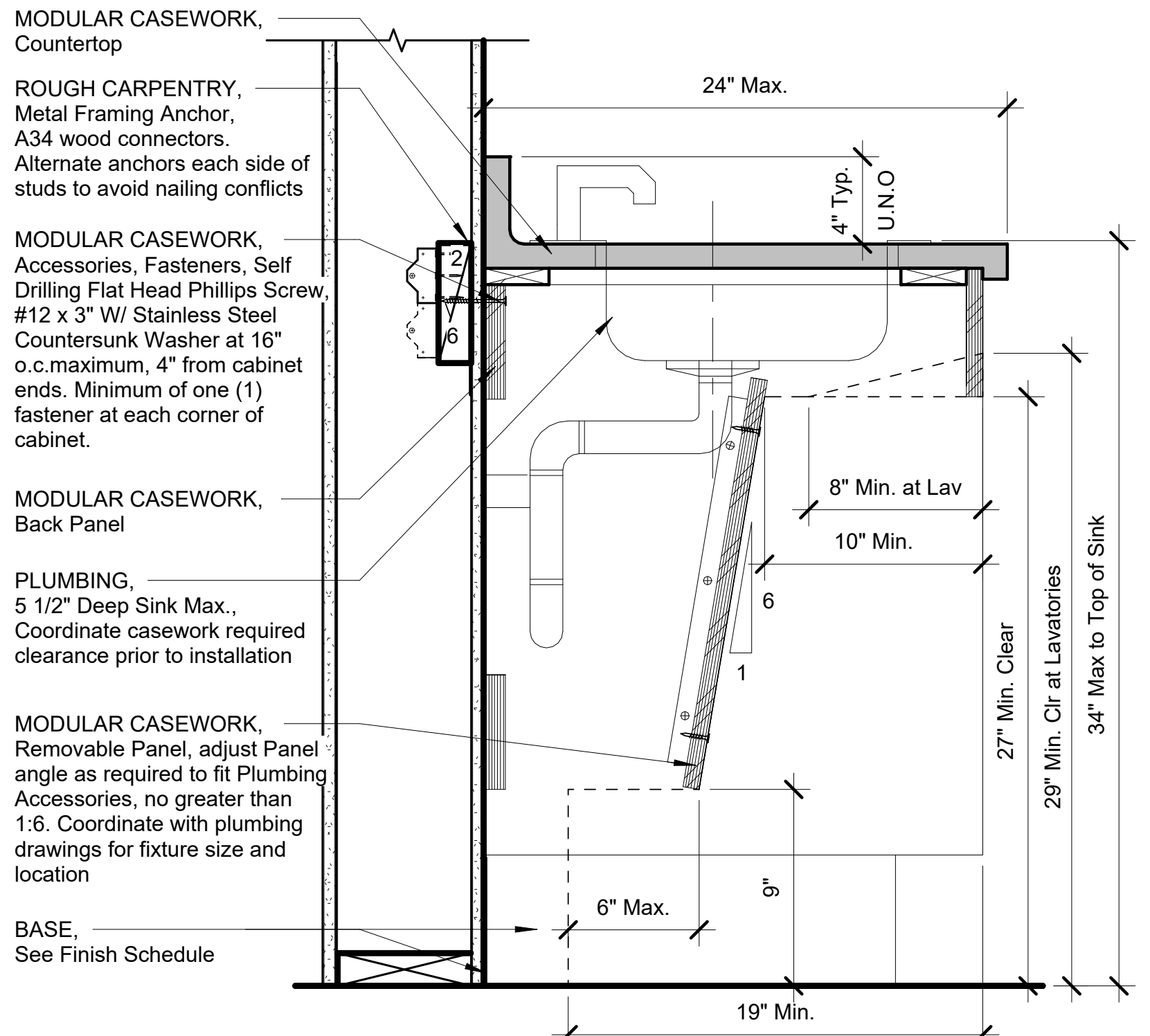
1. This schedule is provided for the convenience of the contractor. field verify all conditions and dimensions prior any fabrication
2. Schedule dimensions shall be considered nominal
3. See Sheet X/A301 for modular casework attachment and details.
4. All details, materials, and finishes shall be considered typical for all similar conditions unless noted otherwise.
5. W.I. Number cabinet designs with suffix "M" shall be modified as indicated or detailed.
6. Provide all filler pieces, scribe strips, flush panels and closures, matching modular cabinetwork, required to complete cabinetwork assemblies and close the finish surfaces.
7. Provide cabinet door and drawer locks at all cabinets unless noted otherwise.
8. All cabinets shall be constructed in accordance with the Architectural Woodwork Institute of Architectural Woodwork Standards, Section 10 for custom grade as modified by Specification Section 06 41 23, MODULAR CASEWORK, unless noted otherwise.
9. All countertops shall be have 6" integral self coved Back and End Splashes, unless noted otherwise. Refer to interior elevations for splash heights which may vary in height. Align splashes with other materials, if shown to be aligned.
10. Base cabinet counter heights shall not exceed 34" in height, unless otherwise noted for undercounter equipment which requires at 36" counter height. In the event the interior elevations or cabinet schedule indicate a 36" counter height, the actual height shall be verified prior to and fabrication.
11. See MODULAR CASEWORK specification for shelves, typical.

REMARKS

1. MODULAR CASEWORK, Base cabinet w/ADA Plumbing Cover, See detail E11/X/A301 Typ
2. MODULAR CASEWORK, Solid Surface Wall Cap, See detail N14/X/A301 Typ
3. MODULAR CASEWORK, Custom Casework, Reception Counter, see detail A10-X/A310

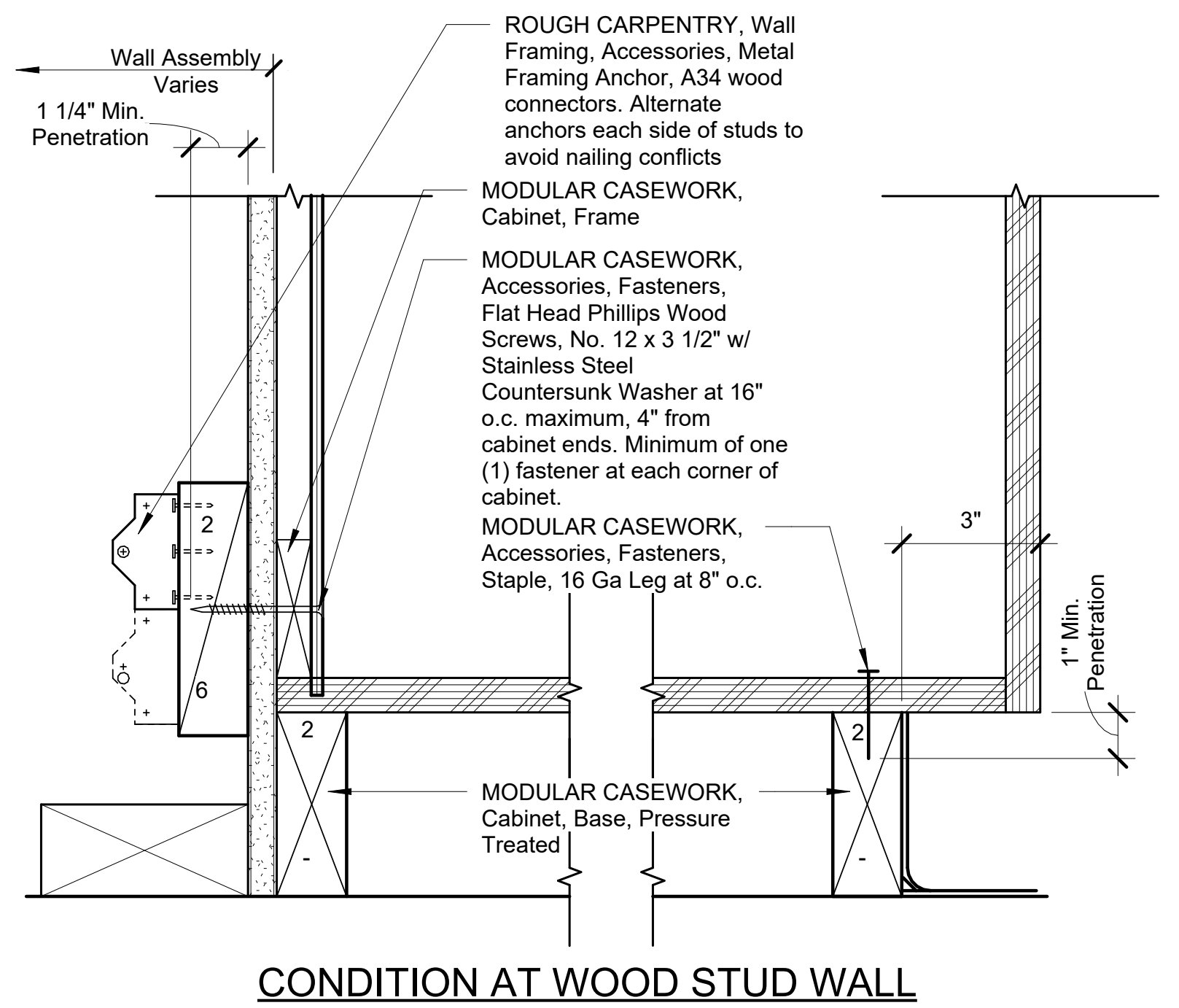
J18 MODULAR CASEWORK, Notes

No Scale


MODULAR CASEWORK, Countertop
ROUGH CARPENTRY, Metal Framing Anchor, A34 wood connectors. Alternate anchors each side of studs to avoid nailing conflicts
MODULAR CASEWORK, Accessories, Fasteners, Self Drilling Flat Head Phillips Screw, #12 x 3" W/ Stainless Steel Countersunk Washer at 16" o.c.maximum, 4" from cabinet ends. Minimum of one (1) fastener at each corner of cabinet.
MODULAR CASEWORK, Back Panel
PLUMBING, 5 1/2" Deep Sink Max., Coordinate casework required clearance prior to installation
MODULAR CASEWORK, Removable Panel, adjust Panel angle as required to fit Plumbing Accessories, no greater than 1:6. Coordinate with plumbing drawings for fixture size and location
BASE, See Finish Schedule
24" Max.
4" Typ. U.N.O
2
6
8" Min. at Lav
10" Min.
6
1
27" Min. Clear
29" Min. Clr at Lavatories
34" Max to Top of Sink
9"
6" Max.
19" Min.

E11 MODULAR CASEWORK, Cabinet Door, Accessible Sink Base

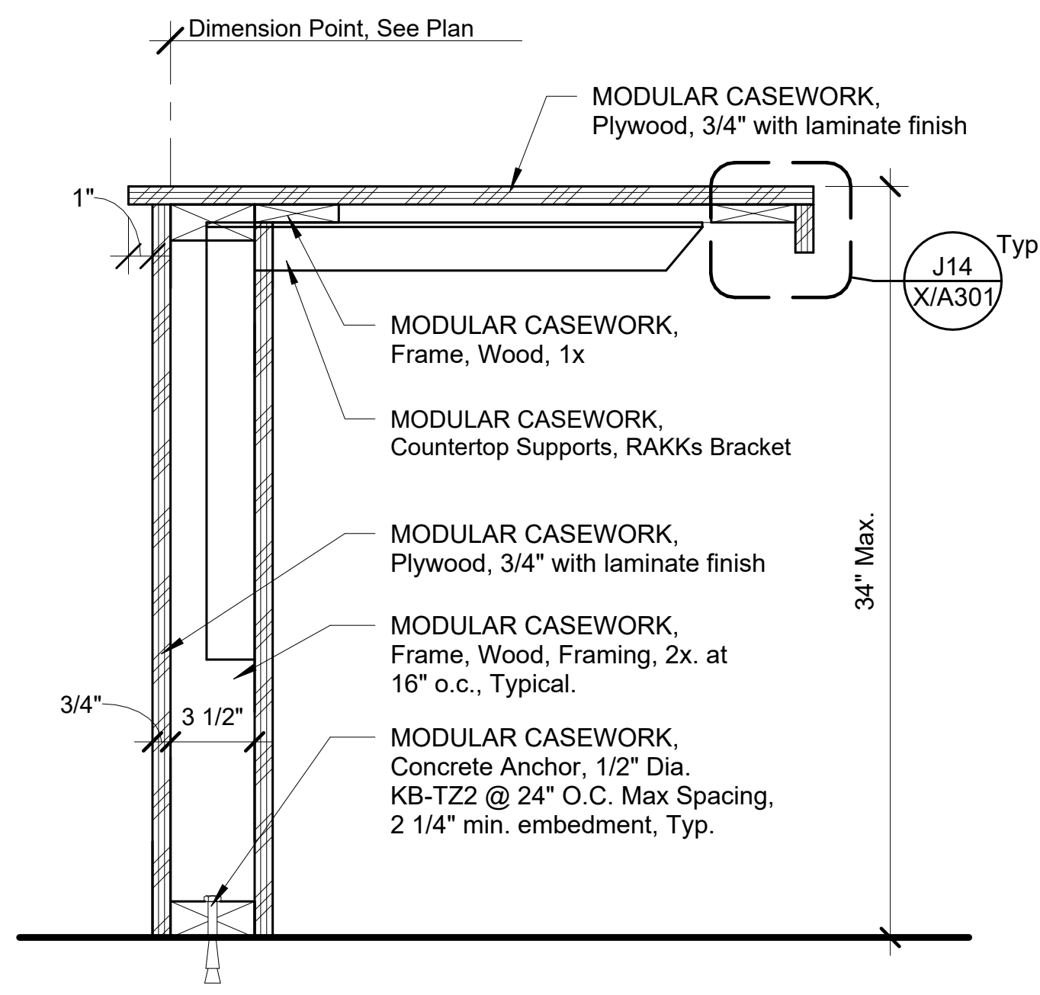
1 1/2" = 1'-0"


Wall Assembly Varies
1 1/4" Min. Penetration
ROUGH CARPENTRY, Wall Framing, Accessories, Metal Framing Anchor, A34 wood connectors. Alternate anchors each side of studs to avoid nailing conflicts
MODULAR CASEWORK, Cabinet, Frame
MODULAR CASEWORK, Accessories, Fasteners, Flat Head Phillips Wood Screws, No. 12 x 3 1/2" w/ Stainless Steel Countersunk Washer at 16" o.c. maximum, 4" from cabinet ends. Minimum of one (1) fastener at each corner of cabinet.
MODULAR CASEWORK, Accessories, Fasteners, Staple, 16 Ga Leg at 8" o.c.
3"
1" Min. Penetration
2
6
2
MODULAR CASEWORK, Cabinet, Base, Pressure Treated
CONDITION AT WOOD STUD WALL

NOTE: Pre-Drill Guide Holes & Align Screws Heads. Do Not Over Drive

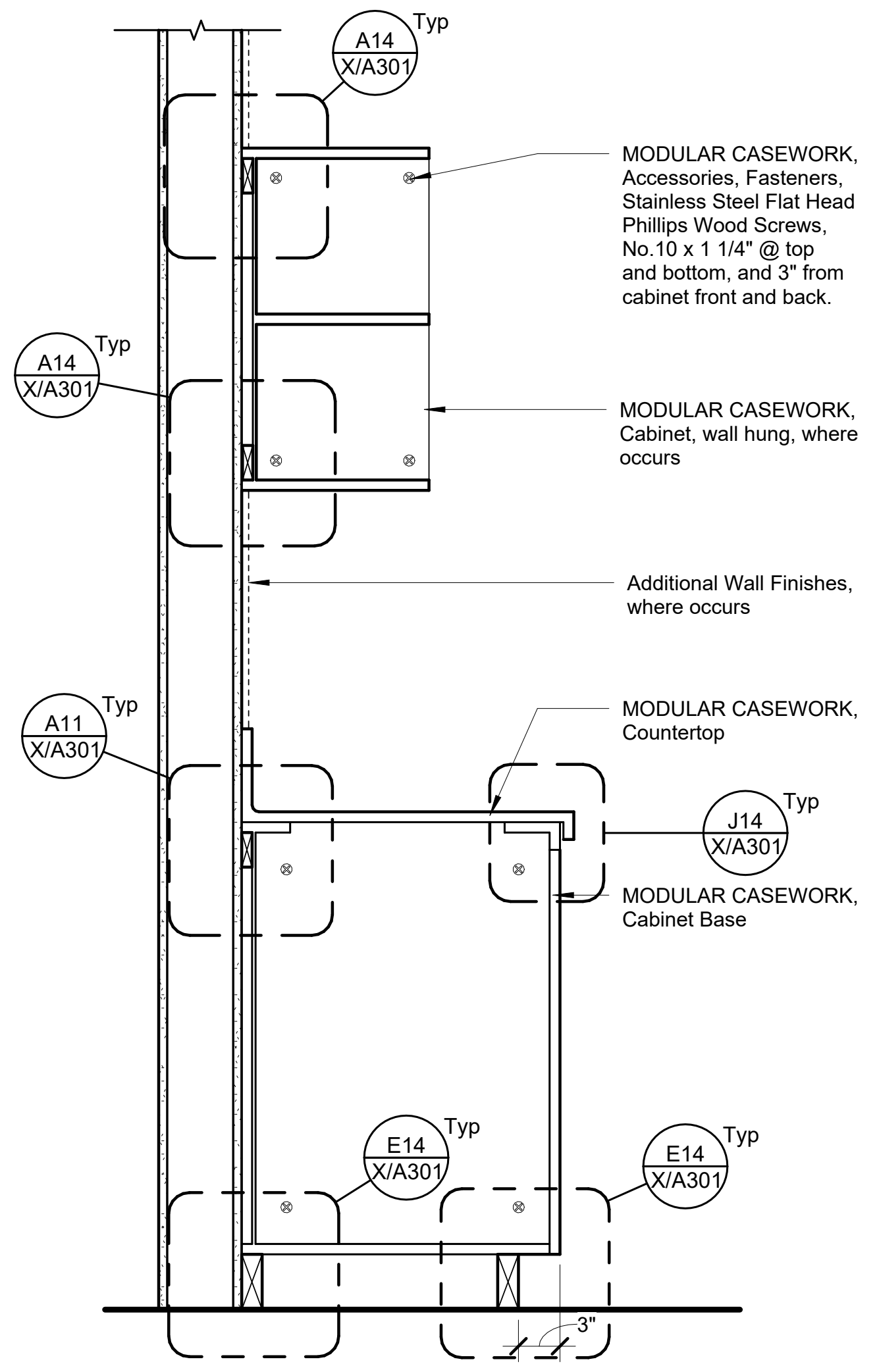
E14 MODULAR CASEWORK, Cabinet Base Anchorage

3" = 1'-0"


Dimension Point, See Plan
MODULAR CASEWORK, Plywood, 3/4" with laminate finish
1"
J14 X/A301 Typ
MODULAR CASEWORK, Frame, Wood, 1x
MODULAR CASEWORK, Countertop Supports, RAKKs Bracket
MODULAR CASEWORK, Plywood, 3/4" with laminate finish
34" Max.
MODULAR CASEWORK, Frame, Wood, Framing, 2x. at 16" o.c., Typical.
3/4"
3 1/2"
MODULAR CASEWORK, Concrete Anchor, 1/2" Dia. KB-TZ2 @ 24" O.C. Max Spacing, 2 1/4" min. embedment, Typ.

A1 MODULAR CASEWORK, Detail, Knee Space

1 1/2" = 1'-0"

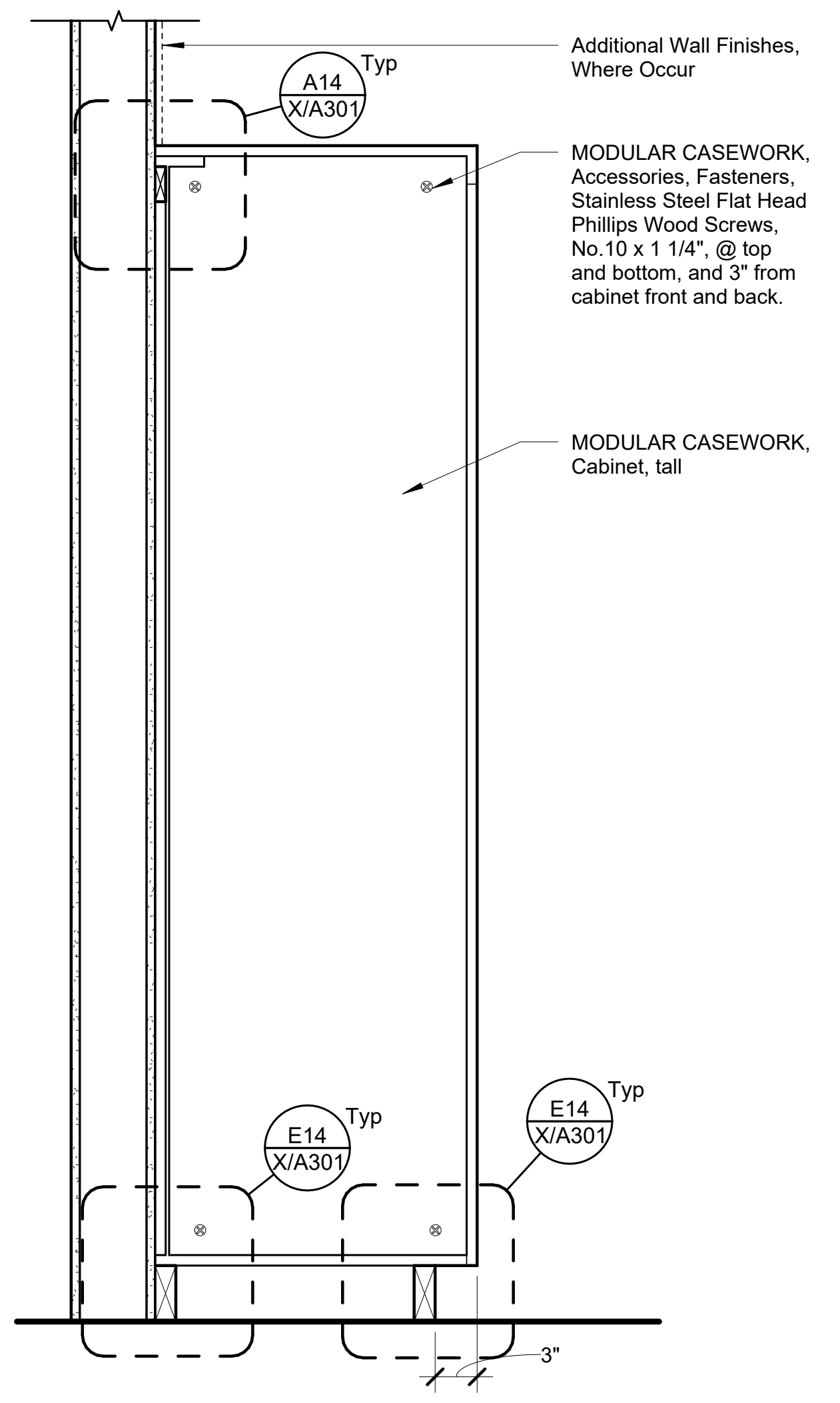

A14 X/A301 Typ
MODULAR CASEWORK, Accessories, Fasteners, Stainless Steel Flat Head Phillips Wood Screws, No.10 x 1 1/4" @ top and bottom, and 3" from cabinet front and back.
A14 X/A301 Typ
MODULAR CASEWORK, Cabinet, wall hung, where occurs
Additional Wall Finishes, where occurs
A11 X/A301 Typ
MODULAR CASEWORK, Countertop
J14 X/A301 Typ
MODULAR CASEWORK, Cabinet Base
E14 X/A301 Typ
E14 X/A301 Typ
3"

NOTE: Pre-Drill Guide Holes & Align Screw Heads. Countersink Screw Head Flush With Laminate Finish. Do Not Over Drive.

At Similar Condition, No Wall Hung Cabinet.

A4 MODULAR CASEWORK, Cabinet, Wall Hung & Base

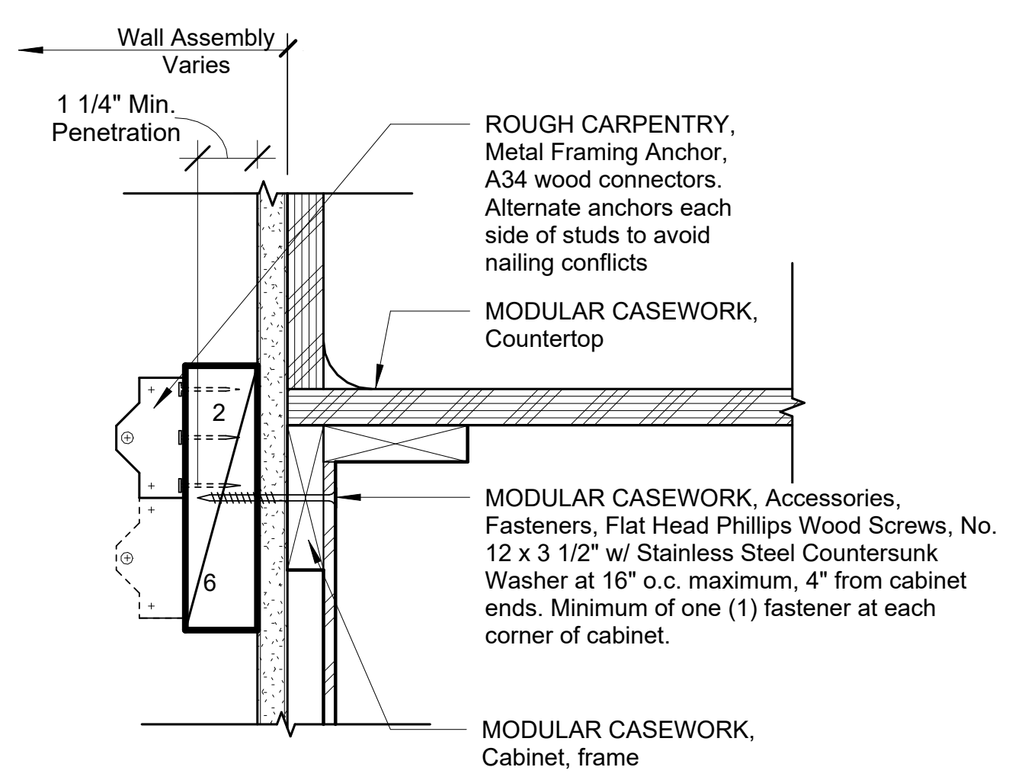
1" = 1'-0"


Additional Wall Finishes, Where Occur
A14 X/A301 Typ
MODULAR CASEWORK, Accessories, Fasteners, Stainless Steel Flat Head Phillips Wood Screws, No.10 x 1 1/4", @ top and bottom, and 3" from cabinet front and back.
MODULAR CASEWORK, Cabinet, tall
E14 X/A301 Typ
E14 X/A301 Typ
3"

NOTE: Pre-Drill Guide Holes & Align Screw Heads. Countersink Screw Head Flush With Laminate Finish. Do Not Over Drive

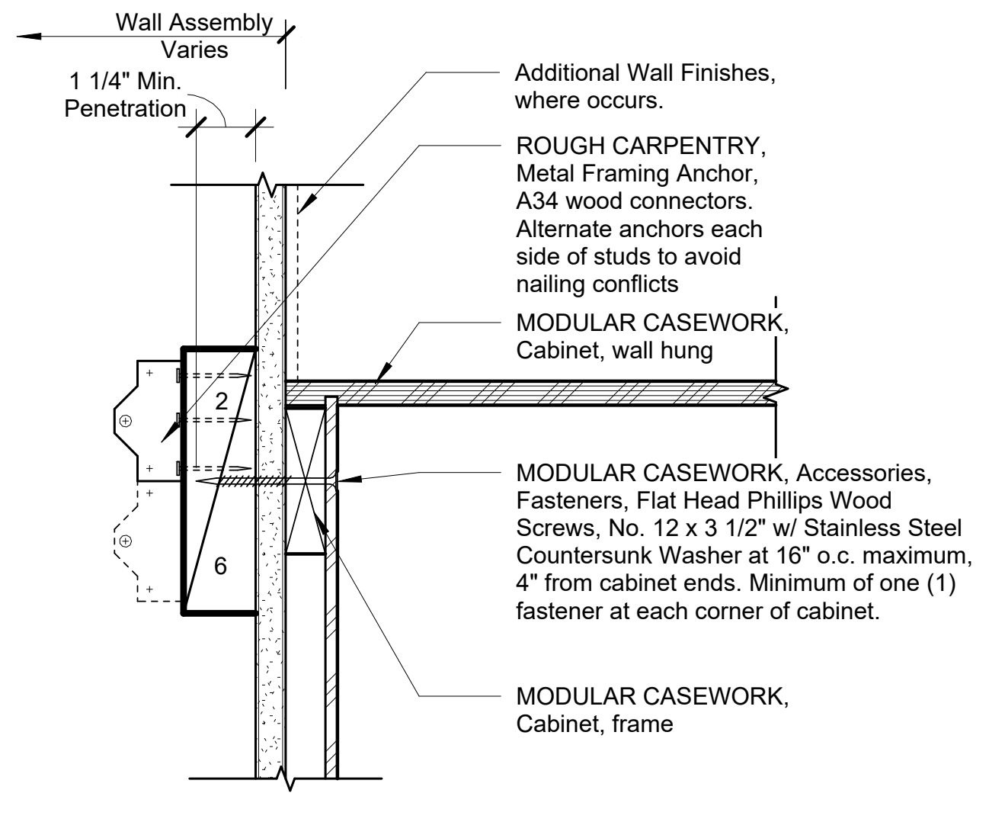
A7 MODULAR CASEWORK, Cabinet, Tall

1" = 1'-0"


Wall Assembly Varies
1 1/4" Min. Penetration
ROUGH CARPENTRY, Metal Framing Anchor, A34 wood connectors. Alternate anchors each side of studs to avoid nailing conflicts
MODULAR CASEWORK, Countertop
2
6
MODULAR CASEWORK, Accessories, Fasteners, Flat Head Phillips Wood Screws, No. 12 x 3 1/2" w/ Stainless Steel Countersunk Washer at 16" o.c. maximum, 4" from cabinet ends. Minimum of one (1) fastener at each corner of cabinet.
MODULAR CASEWORK, Cabinet, frame
CONDITION @ WOOD STUD WALL

A11 MODULAR CASEWORK, Cabinet Base Anchorage

3" = 1'-0"


Wall Assembly Varies
1 1/4" Min. Penetration
Additional Wall Finishes, where occurs.
ROUGH CARPENTRY, Metal Framing Anchor, A34 wood connectors. Alternate anchors each side of studs to avoid nailing conflicts
MODULAR CASEWORK, Cabinet, wall hung
2
6
MODULAR CASEWORK, Accessories, Fasteners, Flat Head Phillips Wood Screws, No. 12 x 3 1/2" w/ Stainless Steel Countersunk Washer at 16" o.c. maximum, 4" from cabinet ends. Minimum of one (1) fastener at each corner of cabinet.
MODULAR CASEWORK, Cabinet, frame
CONDITION @ WOOD STUD WALL

A14 MODULAR CASEWORK, Cabinet Wall Hung Anchorage

3" = 1'-0"

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

Community Day School Modernization
Merced City School District
Merced, CA, 95340
Project

TYPICAL INFORMATION
MODULAR CASEWORK SCHEDULE AND DETAILS
Drawing

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LICENSED ARCHITECT
GRANT E. DODSON
No. C-20,307
Ren. 6-30-27
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: -	Copyright 2026 Darden Architects
Scale: As indicated	Drawn By: -	X/A301
Project Number: 2533	Checked By: -	
Date: 2/9/2026	Reviewed By: -	

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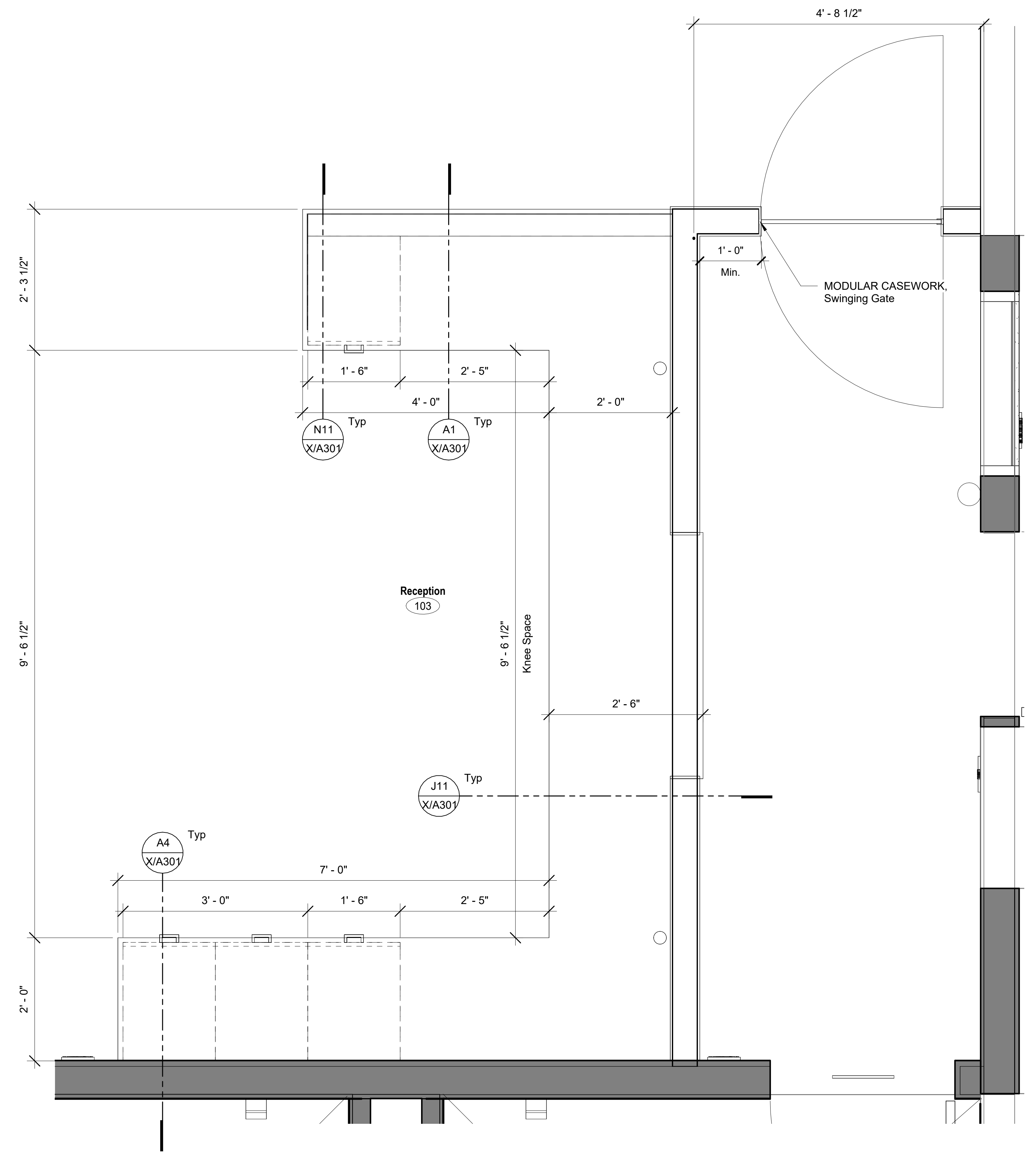
DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval



A10
3/4" = 1'-0"

MODULAR CASEWORK, Custom Casework
a100

Community Day School Modernization
Merced City School District
Merced, CA, 95340
Project

TYPICAL INFORMATION
CUSTOM CASEWORK DETAILS
Drawing

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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

	Designed By: -	Copyright 2026 Darden Architects
Scale: 3/4" = 1'-0"	Drawn By: -	X/A310
Project Number: 2533	Checked By: -	
Date: 2/9/2026	Reviewed By: -	

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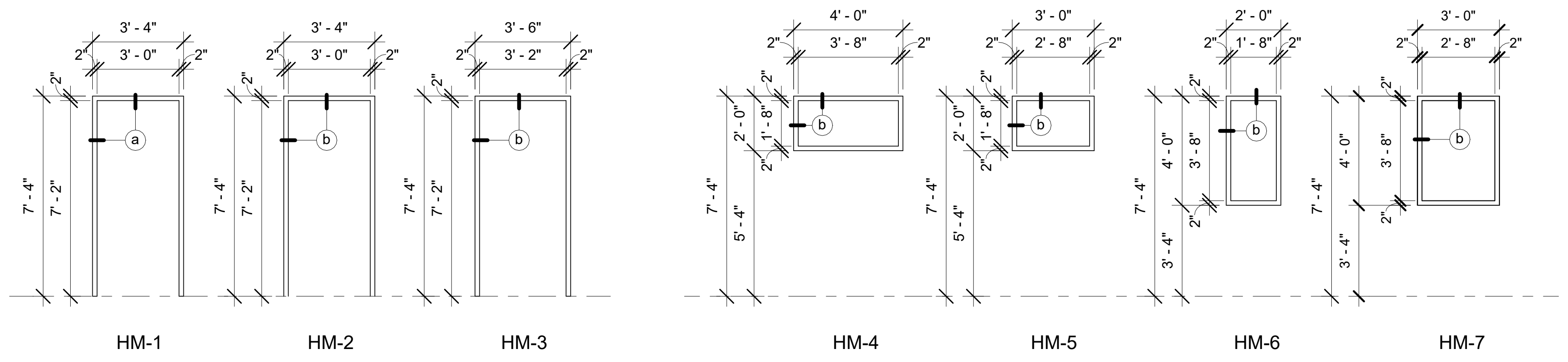
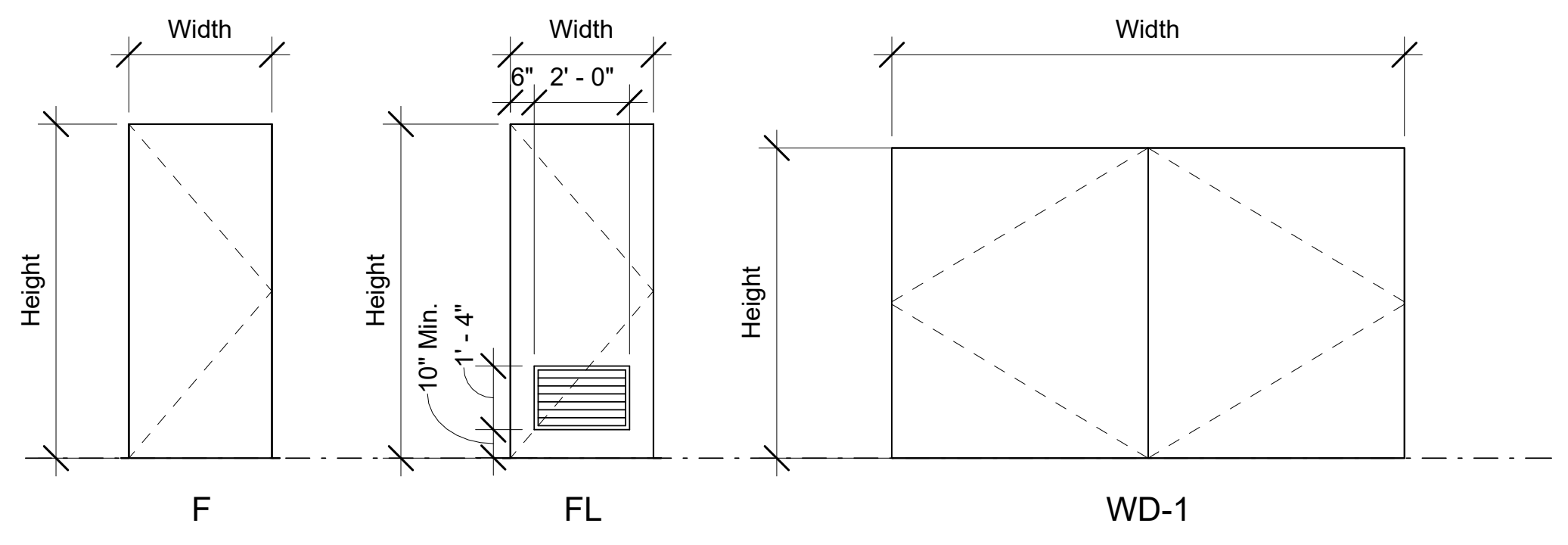


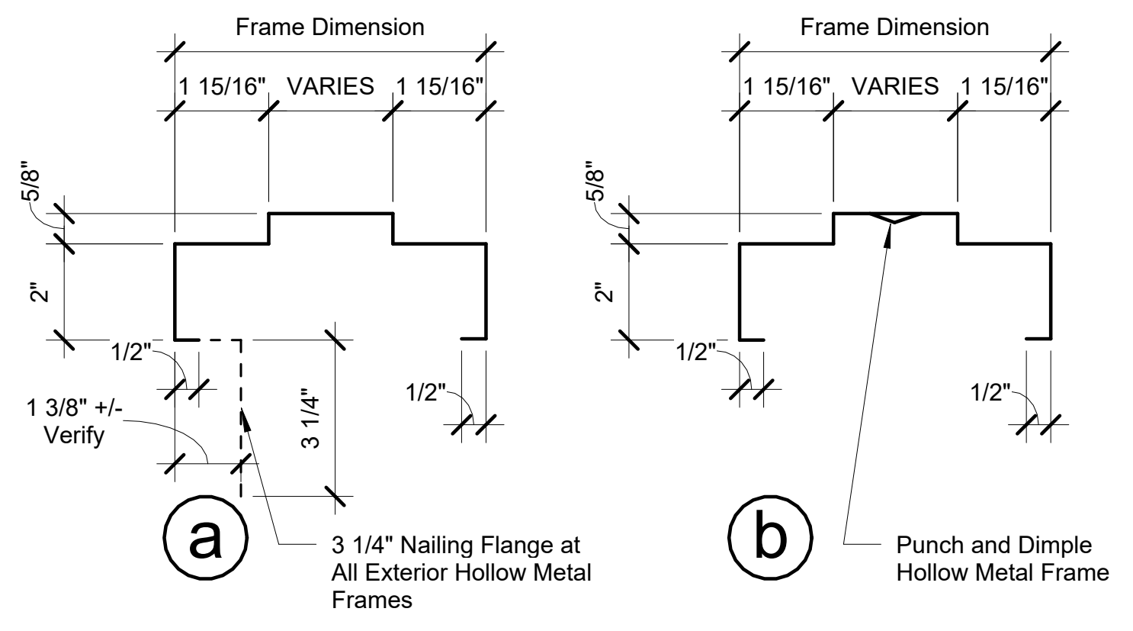
N1 Hollow Metal Frame Elevations

N.T.S



N9 Door Types

N.T.S.


Frame Dimension
1 15/16"
VARIES
5/8"
2"
1/2"
1 3/8" +/- Verify
3 1/4"
3 1/4" Nailing Flange at All Exterior Hollow Metal Frames
a
b
Punch and Dimple Hollow Metal Frame

N14 Hollow Metal Frame Details

3" = 1'-0"

Opening Schedule Window

Window No.	Frame Type	Size		Material	Head	Jamb	Sill	Glazing	Fire Rating	Comments
		Width	Height					Type		
101 a	HM-7	3' - 0"	4' - 0"	HM	J14/X/A402	E14/X/A402	A14/X/A402	G2-2	-	1
101 c	HM-7	3' - 0"	4' - 0"	HM	J14/X/A402	E14/X/A402	A14/X/A402	G2-2	-	1
102 b	HM-7	3' - 0"	4' - 0"	HM	J14/X/A402	E14/X/A402	A14/X/A402	G2-2	-	1
103 a	HM-7	3' - 0"	4' - 0"	HM	J14/X/A402	E14/X/A402	A14/X/A402	G2-2	-	1
107 a	HM-4	4' - 0"	2' - 0"	HM	J14/X/A402	E14/X/A402	A14/X/A402	G-2T	-	1
111 a	HM-4	4' - 0"	2' - 0"	HM	J14/X/A402	E14/X/A402	A14/X/A402	G2-2T	-	1
111 b	HM-5	3' - 0"	2' - 0"	HM	J14/X/A402	E14/X/A402	A14/X/A402	G2-2T	-	1
112 b	HM-5	3' - 0"	2' - 0"	HM	J14/X/A402	E14/X/A402	A14/X/A402	G2-2T	-	1
112 c	HM-4	4' - 0"	2' - 0"	HM	J14/X/A402	E14/X/A402	A14/X/A402	G2-2T	-	1
113 a	HM-4	4' - 0"	2' - 0"	HM	J14/X/A402	E14/X/A402	A14/X/A402	G2-2T	-	1
113 c	HM-5	3' - 0"	2' - 0"	HM	J14/X/A402	E14/X/A402	A14/X/A402	G2-2T	-	1
114 a	HM-6	2' - 0"	4' - 0"	HM	J14/X/A402	E14/X/A402	A14/X/A402	G2-2T	-	1
115 a	HM-6	2' - 0"	4' - 0"	HM	J14/X/A402	E14/X/A402	A14/X/A402	G2-2T	-	1

A1 Opening Schedule Window

N.T.S.

Refer to F18 for Legend Abbreviations, Notes and Comments

Opening Schedule Door

Door No.	Frame Type	Size			Door Material	Door Type	Glass Type	Louver Type			Threshold	Hardware	Fire Rating	Comments
		Width	Height	Thickness					Head	Jamb		Group		
101 b	HM-1	3' - 0"	7' - 2"	1 3/4"	HM	F	-	-	J14/X/A403	E14/X/A403	A14/X/A403	06	-	3,4
102 a	HM-2	3' - 0"	7' - 2"	1 3/4"	HM	F	-	-	J14/X/A402	E14/X/A402	N7/X/A402	01	-	1,5
102 c	HM-1	3' - 0"	7' - 2"	1 3/4"	HM	F	-	-	J14/X/A403	E14/X/A403	A14/X/A403	06	-	3,4
103 b	HM-2	3' - 0"	7' - 2"	1 3/4"	HM	F	-	-	J14/X/A402	E14/X/A402, J7/X/A402	N7/X/A402	01	-	1,5
104 a	HM-1	3' - 0"	7' - 2"	1 3/4"	HM	F	-	-	J14/X/A403	E14/X/A403	A14/X/A403	07	-	3
105 a	HM-1	3' - 0"	7' - 2"	1 3/4"	HM	F	-	-	J14/X/A403	E14/X/A403	A14/X/A403	07	-	3
106 a	HM-2	3' - 0"	7' - 2"	1 3/4"	HM	F	-	-	J14/X/A402	E14/X/A402, J7/X/A402	N7/X/A402	01	-	1,5
106 b	WD-1	5' - 4 1/2"	6' - 6"	1 3/4"	WD	F	-	-	E11/X/A403	A11/X/A403	J11/X/A403	-	-	-
107 b	HM-2	3' - 0"	7' - 2"	1 3/4"	HM	F	-	-	J14/X/A402	E14/X/A402	N7/X/A402	01	-	1,4,5
108 a	HM-2	3' - 0"	7' - 2"	1 3/4"	HM	FL	-	Y	J14/X/A402	E14/X/A402, J7/X/A402	N7/X/A402	03	-	1,4,5
109 a	HM-3	3' - 2"	7' - 2"	1 3/4"	HM	FL	-	Y	J14/X/A402	E14/X/A402, J7/X/A402	N4/X/A402	05	-	1,5
110 a	HM-2	3' - 0"	7' - 2"	1 3/4"	HM	FL	-	Y	J14/X/A402	E14/X/A402, N11/X/A402	N7/X/A402	04	-	1,4,5
111 c	HM-2	3' - 0"	7' - 2"	1 3/4"	HM	F	-	-	J14/X/A402	E14/X/A402	N7/X/A402	02	-	1,5
112 a	HM-2	3' - 0"	7' - 2"	1 3/4"	HM	F	-	-	J14/X/A402	E14/X/A402	N7/X/A402	02	-	1,5
113 b	HM-2	3' - 0"	7' - 2"	1 3/4"	HM	F	-	-	J14/X/A402	E14/X/A402	N7/X/A402	01	-	1,5
114 b	HM-2	3' - 0"	7' - 2"	1 3/4"	HM	F	-	-	J14/X/A402	E14/X/A402, J7/X/A402	N7/X/A402	02	-	1,5
115 b	HM-2	3' - 0"	7' - 2"	1 3/4"	HM	F	-	-	J14/X/A402	E14/X/A402, J7/X/A402	N7/X/A402	02	-	1,5

A9 Opening Schedule, Doors

N.T.S.

Refer to F18 for Legend Abbreviations, Notes and Comments

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

ABBREVIATIONS

SG - Steel Gate
SW - Service Window
STL - Steel
AL - Aluminum
SF - Storefront
HM - Hollow Metal
SG - Site Gate
SPF - Steel Post Fence
FF - Floor Finish
AC - Acoustical
SS - Stainless Steel
CL - Chain Link
WD - WOOD DOORS
CD - COILING DOORS,
GALV - Galvanized Finish
S&F - Steel and Fabrications
RO - Rough Opening
H - Hazard Class 1 Glazing (CBC) Tempered or Laminated Glass. See Opening Schedule for type.

GENERAL NOTES

1. This schedule is provided for the convenience of the General Contractor. Dimensions indicated are nominal dimensions.
2. The General Contractor is responsible for all coordination and review of drawings and verifying all field conditions and dimensions prior to fabrication. Not all detail references are included in the schedule.
3. Provide metal closure plates for HM Frames at concrete curbs, Typical, Refer to Detail J11/X/A402 Typ
4. All details, materials and finishes shall be considered typical for all similar conditions unless noted otherwise.
5. For Jamb at 90 Degree Door Swing, see detail N11/X/A402 N14/X/A402 N14/X/A403
6. Frame Types are shown on this sheet.
7. Door Types are shown on this sheet.
8. Exit Doors shall be openable from inside without the use of a key or any special knowledge or effort.
9. For opening Head, Jamb, and Sill framing conditions, see Structural Drawings.
10. At exterior wall locations, provide flashing as noted in Opening Schedule Comments #1, whether noted in the schedule or not.
11. All doors to rooms or spaces with an occupant load of 5 or more shall be equipped with hardware that is located from the inside per 1010.1.11 of CBC.
12. For material transition at doors see detail A14/X/A403 Typ

OPENING SCHEDULE COMMENTS

1. For flashing at Hollow Meal Doors: Exterior wall locations see detail A7/X/A402 Typ
2. HARDWARE, Exit/Panic Devices, section HARDWARE, where occurs.
3. HARDWARE, Wall Stop, See detail J4/X/A402 for wall backing, Typ.
4. HARDWARE, Door Stop, See detail A4/X/A402 Typ
5. For Jamb at 90 Degree Door Swing, See detail N14/X/A403 N14/X/A402

F18 Opening Schedule Legend

No Scale

Community Day School Modernization
Merced City School District
Merced, CA, 95340
Project

TYPICAL INFORMATION
OPENING SCHEDULES AND ELEVATIONS
Drawing

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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27
Architect

No.	Revision/Submission	Date

Revision

Designed By: -
Scale: As indicated
Drawn By: -
Project Number: 2533
Checked By: -
Date: 2/9/2026
Reviewed By: -

X/A401

2/6/2026 11:27:40 AM
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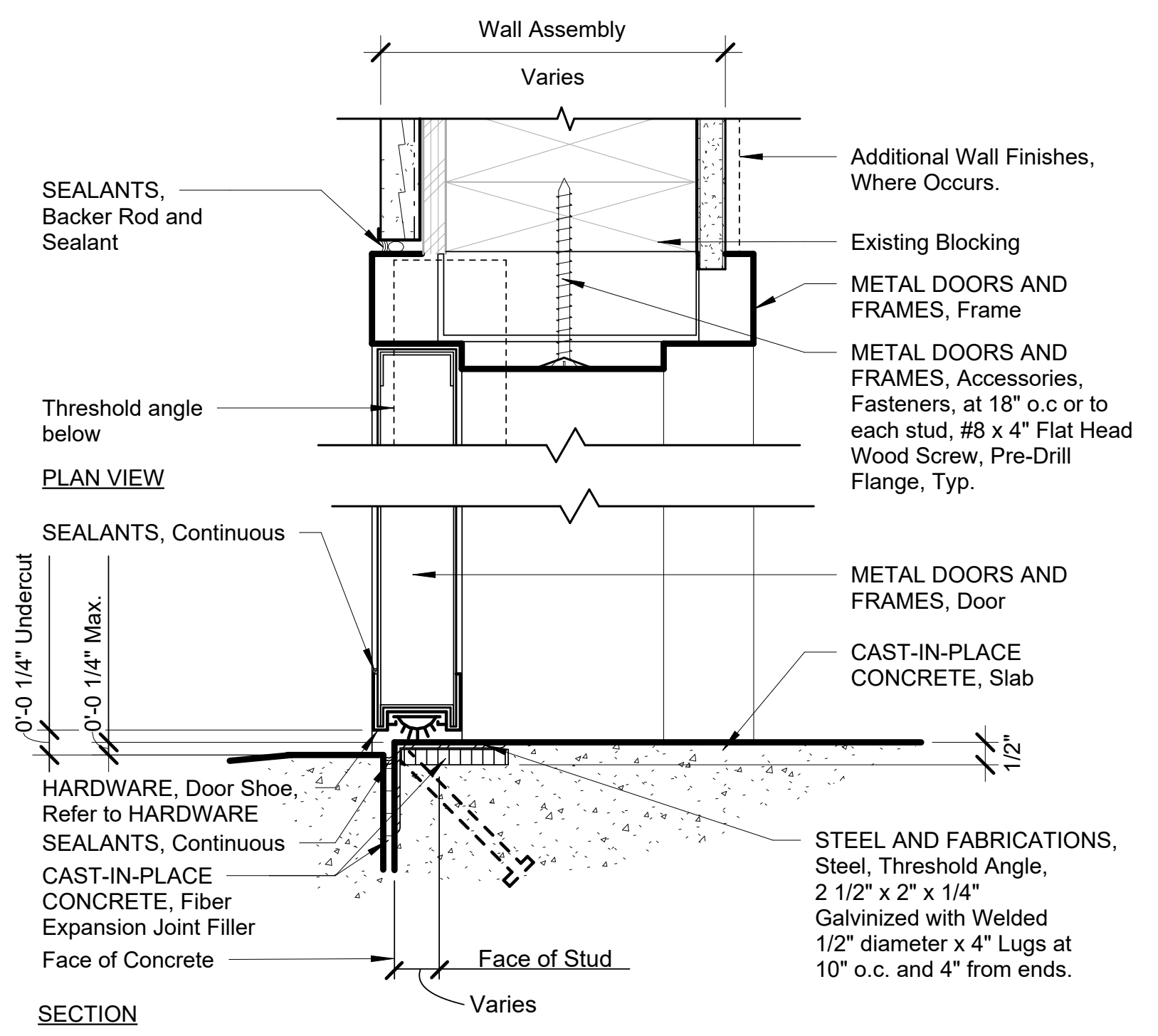
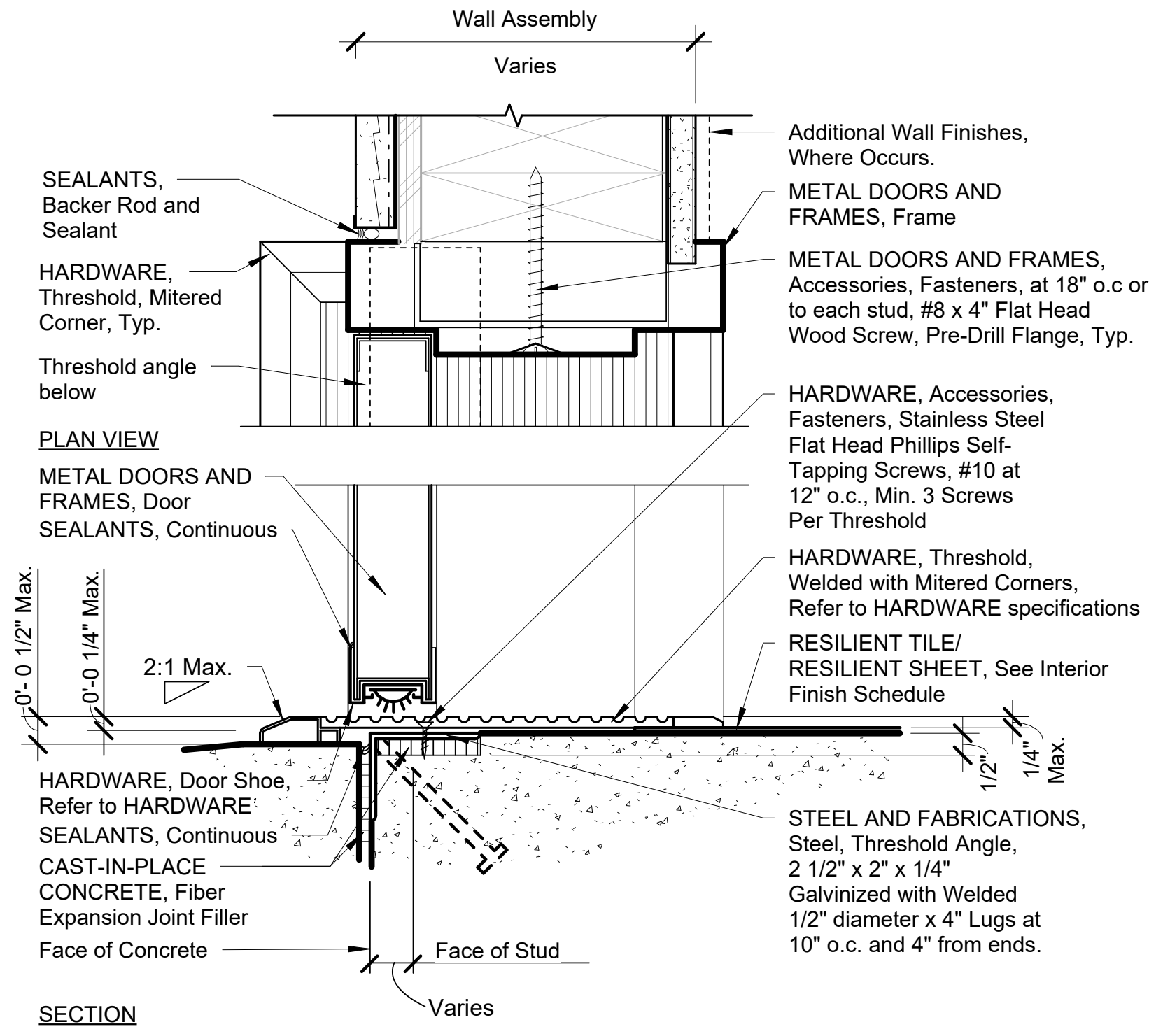
DSA File No.:
24-35

DSA Application No.:
02-123716

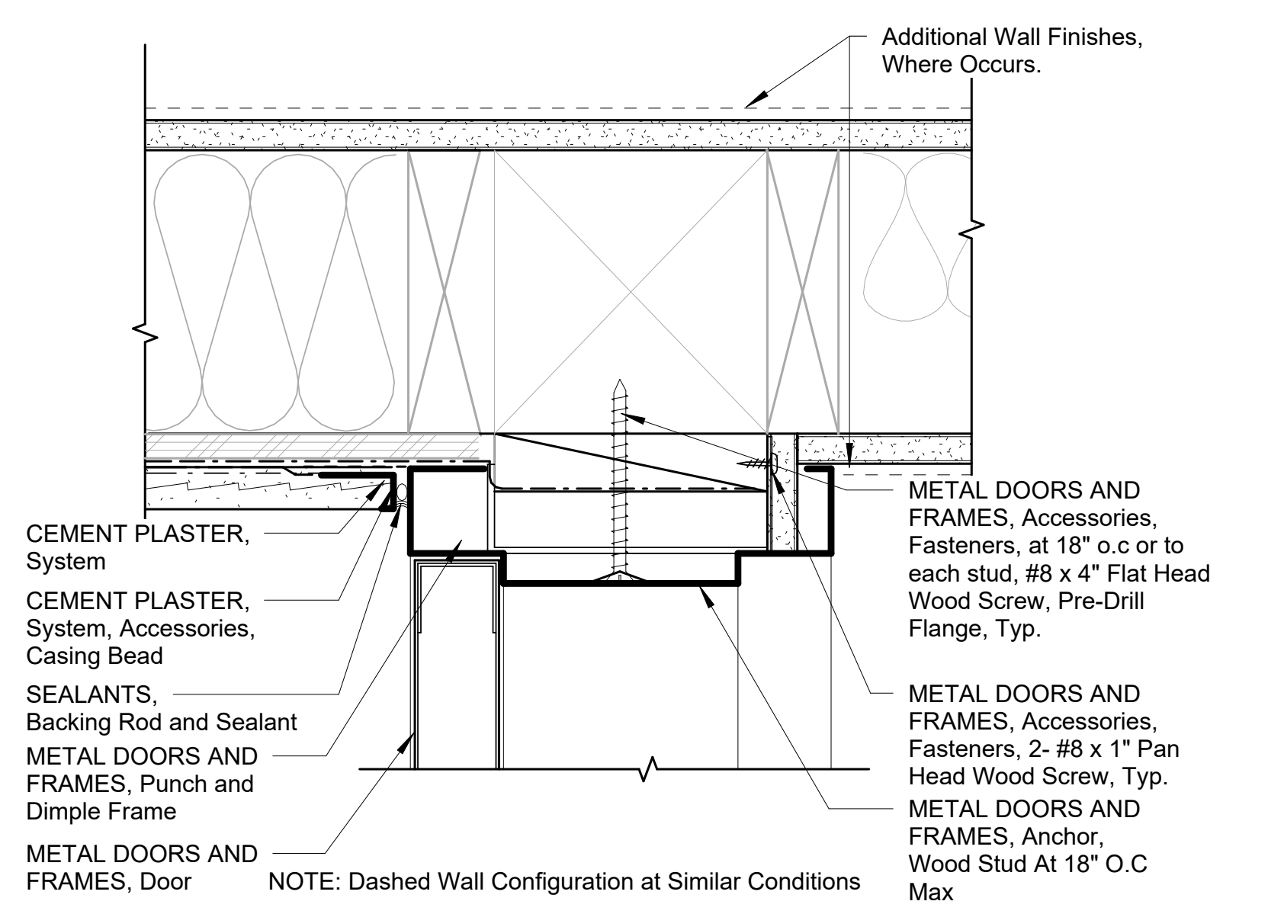
Agency Approval


Wall Assembly
Varies
SEALANTS, Backer Rod and Sealant
Additional Wall Finishes, Where Occurs.
Existing Blocking
METAL DOORS AND FRAMES, Frame
METAL DOORS AND FRAMES, Accessories, Fasteners, at 18" o.c or to each stud, #8 x 4" Flat Head Wood Screw, Pre-Drill Flange, Typ.
Threshold angle below
PLAN VIEW
SEALANTS, Continuous
METAL DOORS AND FRAMES, Door
CAST-IN-PLACE CONCRETE, Slab
0'-0 1/4" Undercut
0'-0 1/4" Max.
1/2"
HARDWARE, Door Shoe, Refer to HARDWARE
SEALANTS, Continuous
CAST-IN-PLACE CONCRETE, Fiber Expansion Joint Filler
Face of Concrete
Face of Stud
Varies
STEEL AND FABRICATIONS, Steel, Threshold Angle, 2 1/2" x 2" x 1/4" Galvinized with Welded 1/2" diameter x 4" Lugs at 10" o.c. and 4" from ends.
SECTION

N4
HARDWARE, Threshold at Exterior Metal Doors
3" = 1'-0"

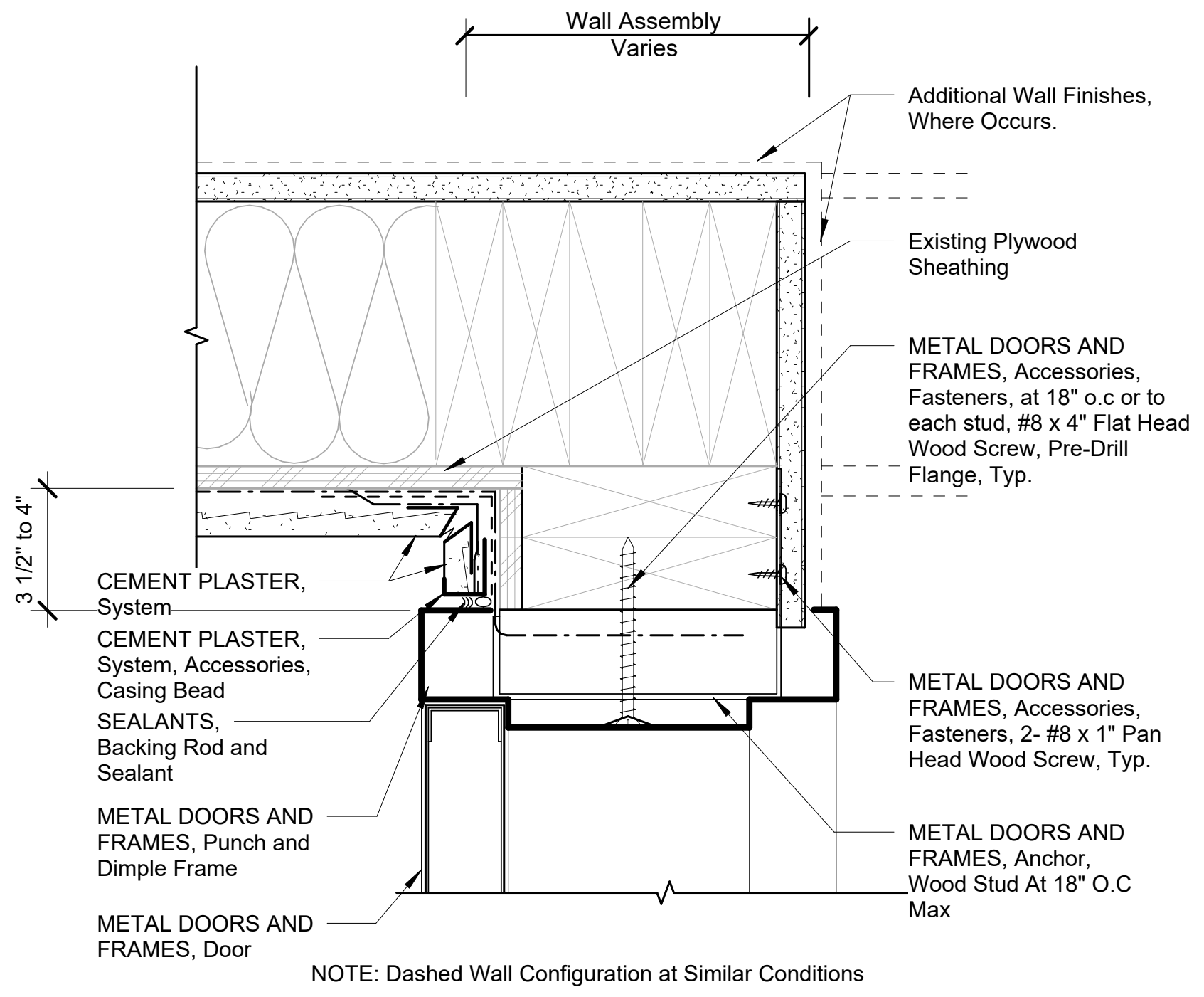

Wall Assembly
Varies
SEALANTS, Backer Rod and Sealant
HARDWARE, Threshold, Mitered Corner, Typ.
Threshold angle below
PLAN VIEW
METAL DOORS AND FRAMES, Door
SEALANTS, Continuous
Additional Wall Finishes, Where Occurs.
METAL DOORS AND FRAMES, Frame
METAL DOORS AND FRAMES, Accessories, Fasteners, at 18" o.c or to each stud, #8 x 4" Flat Head Wood Screw, Pre-Drill Flange, Typ.
HARDWARE, Accessories, Fasteners, Stainless Steel Flat Head Phillips Self-Tapping Screws, #10 at 12" o.c., Min. 3 Screws Per Threshold
HARDWARE, Threshold, Welded with Mitered Corners, Refer to HARDWARE specifications
RESILIENT TILE/ RESILIENT SHEET, See Interior Finish Schedule
0'- 0 1/2" Max.
0'-0 1/4" Max.
2:1 Max.
1/2"
1/4" Max.
HARDWARE, Door Shoe, Refer to HARDWARE
SEALANTS, Continuous
CAST-IN-PLACE CONCRETE, Fiber Expansion Joint Filler
Face of Concrete
Face of Stud
Varies
STEEL AND FABRICATIONS, Steel, Threshold Angle, 2 1/2" x 2" x 1/4" Galvinized with Welded 1/2" diameter x 4" Lugs at 10" o.c. and 4" from ends.
SECTION

N7
HARDWARE, Threshold at Exterior Metal Doors
3" = 1'-0"


Additional Wall Finishes, Where Occurs.
CEMENT PLASTER, System
CEMENT PLASTER, System, Accessories, Casing Bead
SEALANTS, Backing Rod and Sealant
METAL DOORS AND FRAMES, Punch and Dimple Frame
METAL DOORS AND FRAMES, Door
METAL DOORS AND FRAMES, Accessories, Fasteners, at 18" o.c or to each stud, #8 x 4" Flat Head Wood Screw, Pre-Drill Flange, Typ.
METAL DOORS AND FRAMES, Accessories, Fasteners, 2- #8 x 1" Pan Head Wood Screw, Typ.
METAL DOORS AND FRAMES, Anchor, Wood Stud At 18" O.C Max

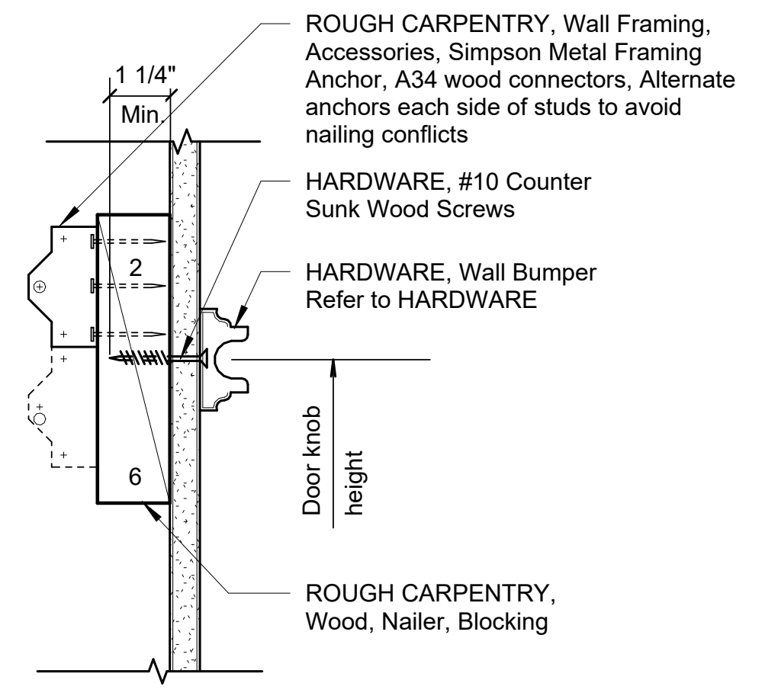
NOTE: Dashed Wall Configuration at Similar Conditions

N11
METAL DOORS AND FRAMES, Jamb at Exterior 90 Swing
3" = 1'-0"

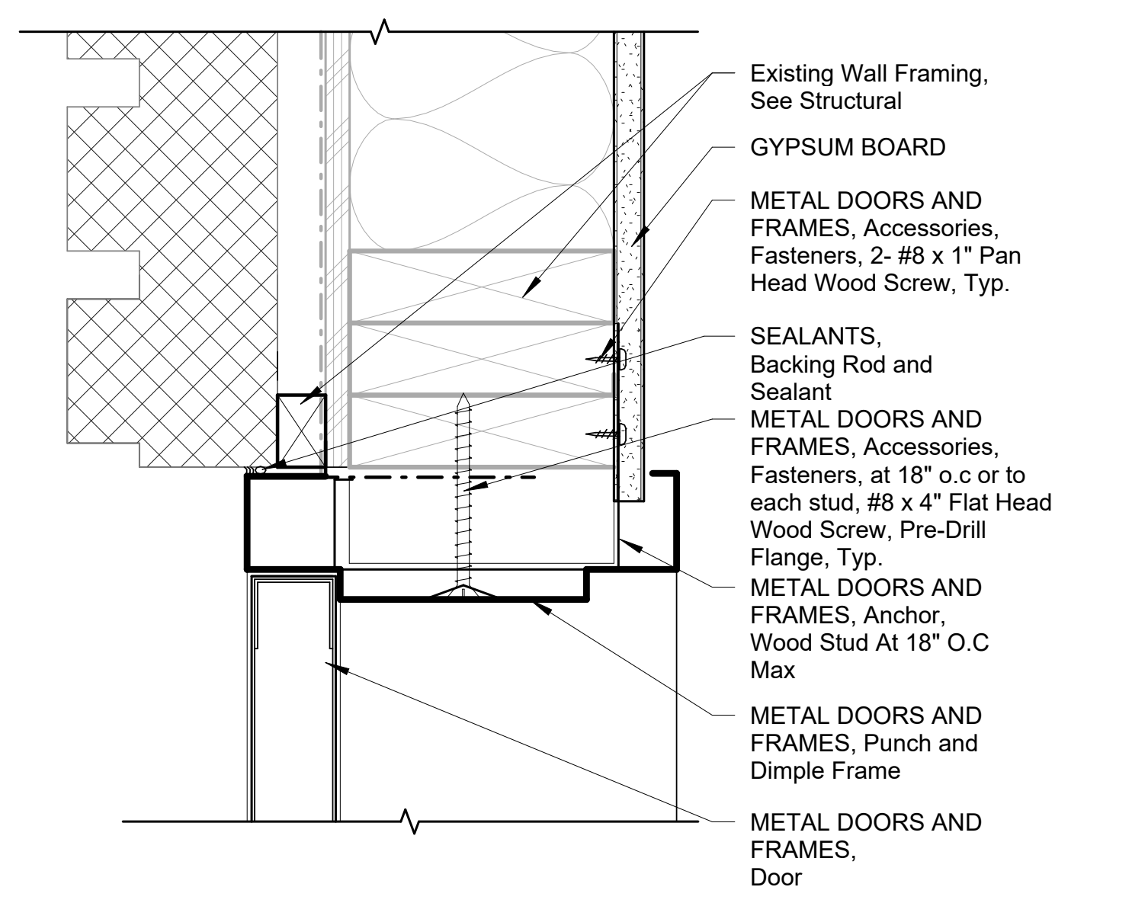

Wall Assembly
Varies
Additional Wall Finishes, Where Occurs.
Existing Plywood Sheathing
METAL DOORS AND FRAMES, Accessories, Fasteners, at 18" o.c or to each stud, #8 x 4" Flat Head Wood Screw, Pre-Drill Flange, Typ.
3 1/2" to 4"
CEMENT PLASTER, System
CEMENT PLASTER, System, Accessories, Casing Bead
SEALANTS, Backing Rod and Sealant
METAL DOORS AND FRAMES, Punch and Dimple Frame
METAL DOORS AND FRAMES, Door
METAL DOORS AND FRAMES, Accessories, Fasteners, 2- #8 x 1" Pan Head Wood Screw, Typ.
METAL DOORS AND FRAMES, Anchor, Wood Stud At 18" O.C Max

NOTE: Dashed Wall Configuration at Similar Conditions

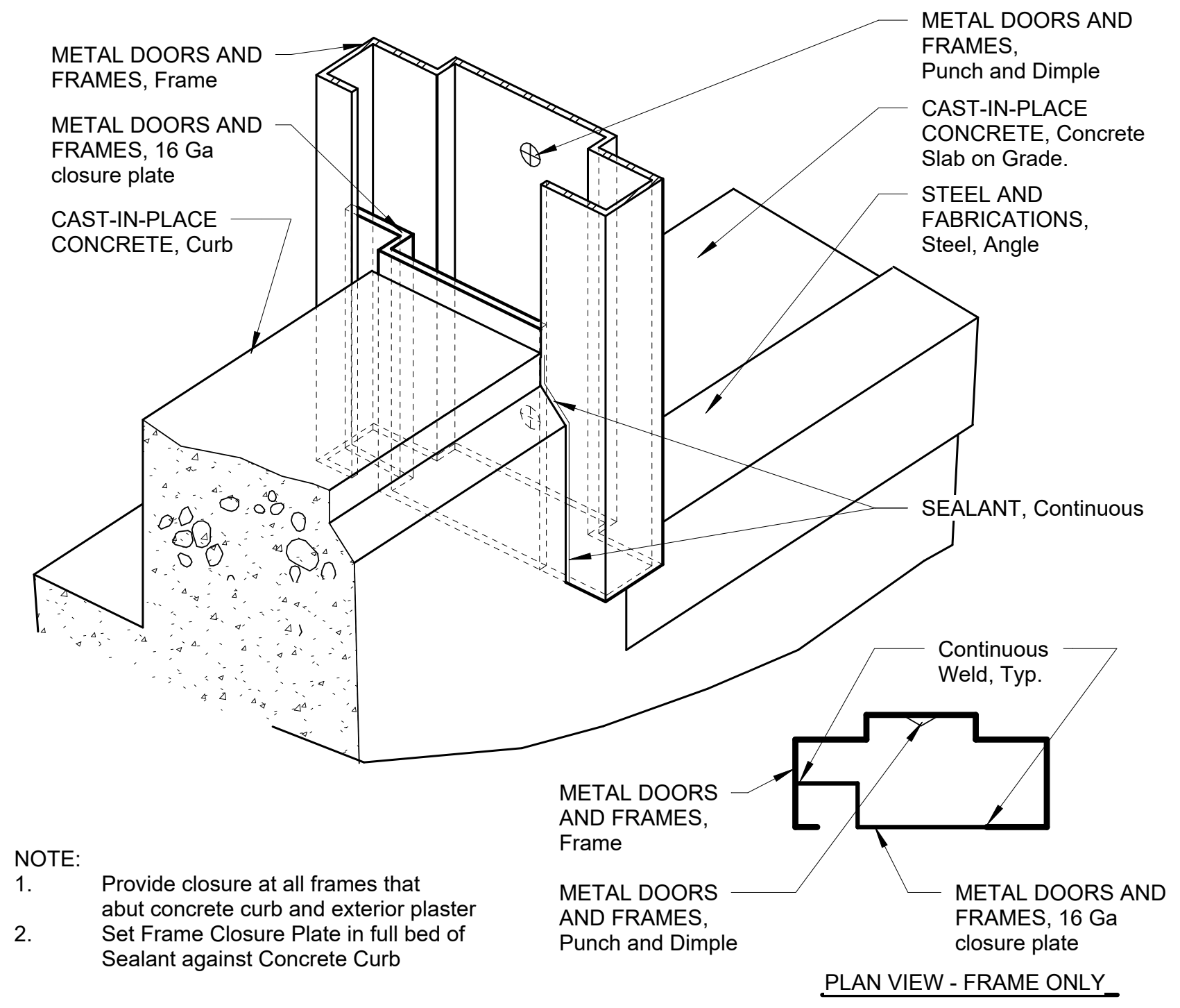
N14
METAL DOORS AND FRAMES, Jamb at Exterior 90 Swing
3" = 1'-0"


1 1/4" Min.
2
6
Door knob height
ROUGH CARPENTRY, Wall Framing, Accessories, Simpson Metal Framing Anchor, A34 wood connectors, Alternate anchors each side of studs to avoid nailing conflicts
HARDWARE, #10 Counter Sunk Wood Screws
HARDWARE, Wall Bumper Refer to HARDWARE
ROUGH CARPENTRY, Wood, Nailer, Blocking

J4
HARDWARE, Door Stop at Ext & Int
3" = 1'-0"

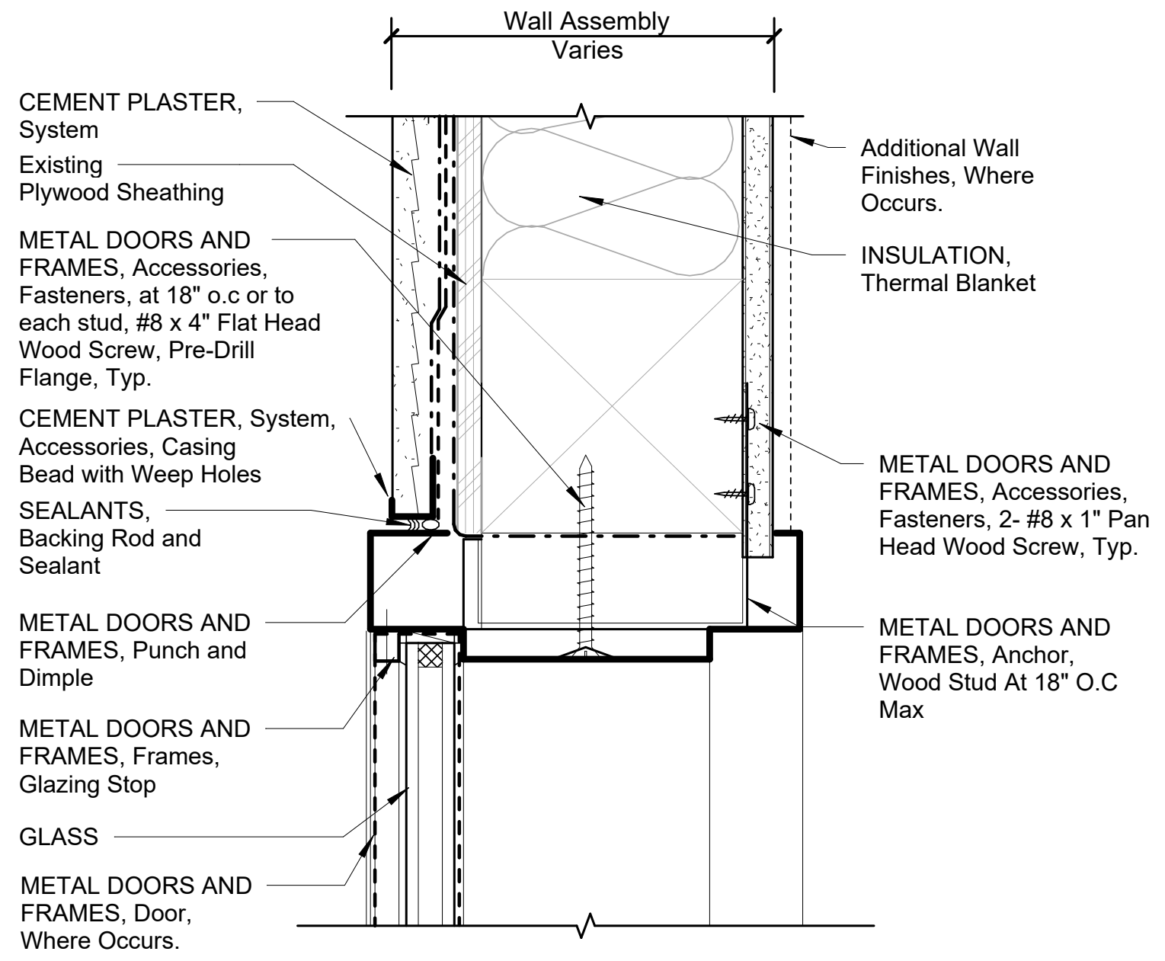

Existing Wall Framing, See Structural
GYPSUM BOARD
METAL DOORS AND FRAMES, Accessories, Fasteners, 2- #8 x 1" Pan Head Wood Screw, Typ.
SEALANTS, Backing Rod and Sealant
METAL DOORS AND FRAMES, Accessories, Fasteners, at 18" o.c or to each stud, #8 x 4" Flat Head Wood Screw, Pre-Drill Flange, Typ.
METAL DOORS AND FRAMES, Anchor, Wood Stud At 18" O.C Max
METAL DOORS AND FRAMES, Punch and Dimple Frame
METAL DOORS AND FRAMES, Door

J7
METAL DOORS AND FRAMES, Jamb at Exterior CMU Veneer
3" = 1'-0"

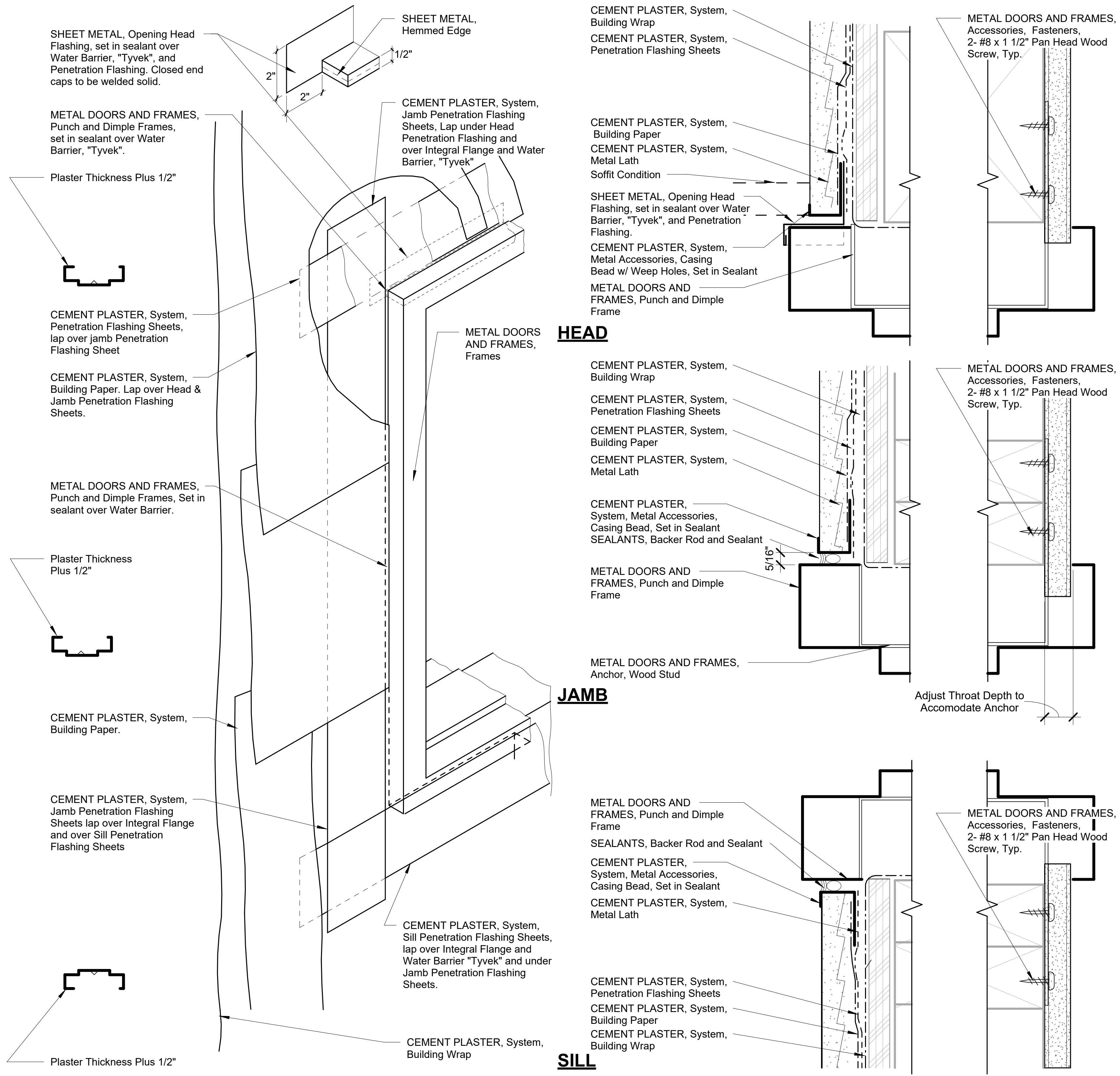

METAL DOORS AND FRAMES, Frame
METAL DOORS AND FRAMES, 16 Ga closure plate
CAST-IN-PLACE CONCRETE, Curb
METAL DOORS AND FRAMES, Punch and Dimple
CAST-IN-PLACE CONCRETE, Concrete Slab on Grade.
STEEL AND FABRICATIONS, Steel, Angle
SEALANT, Continuous
Continuous Weld, Typ.
METAL DOORS AND FRAMES, Frame
METAL DOORS AND FRAMES, Punch and Dimple
METAL DOORS AND FRAMES, 16 Ga closure plate
PLAN VIEW - FRAME ONLY

NOTE:
1. Provide closure at all frames that abut concrete curb and exterior plaster
2. Set Frame Closure Plate in full bed of Sealant against Concrete Curb

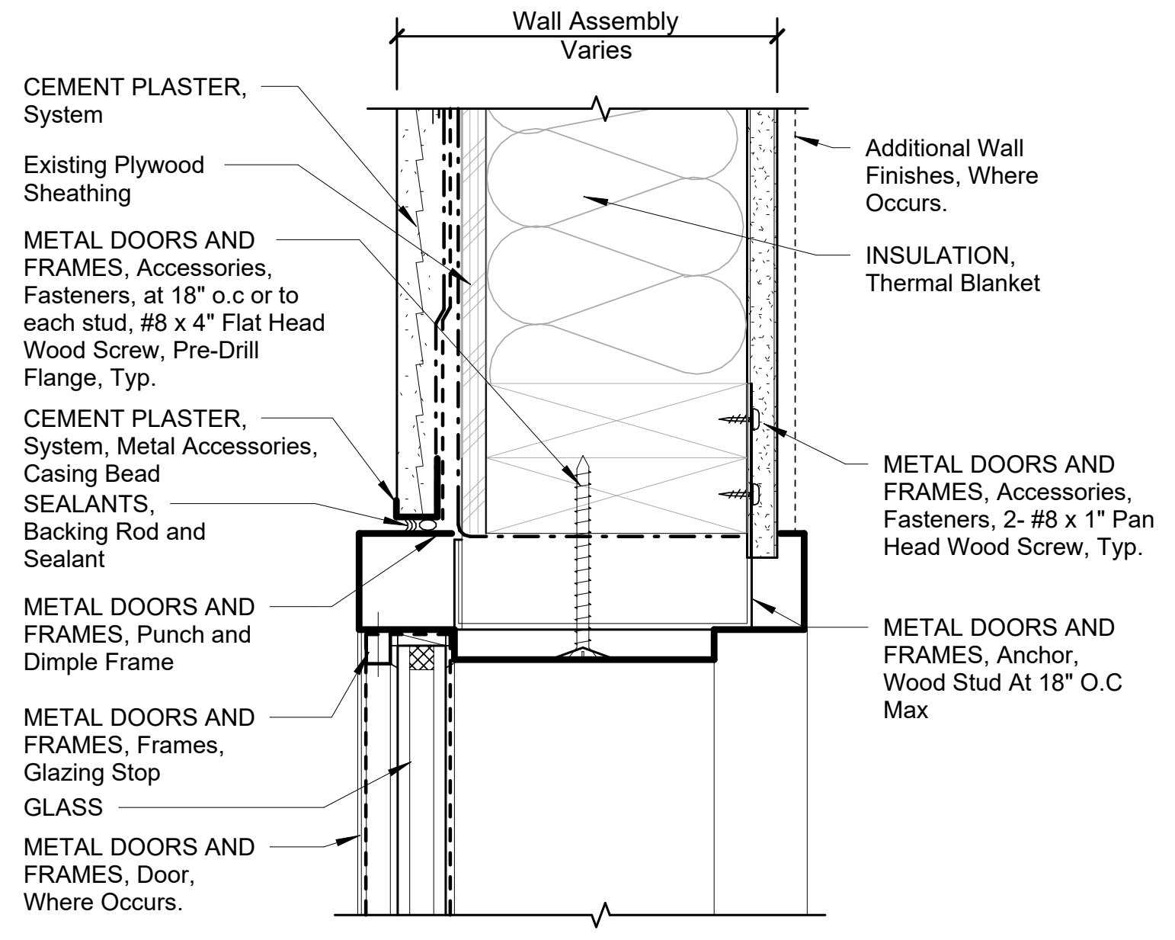
J11
METAL DOORS AND FRAMES, Curb Detail
3" = 1'-0"


Wall Assembly
Varies
CEMENT PLASTER, System
Existing Plywood Sheathing
METAL DOORS AND FRAMES, Accessories, Fasteners, at 18" o.c or to each stud, #8 x 4" Flat Head Wood Screw, Pre-Drill Flange, Typ.
CEMENT PLASTER, System, Accessories, Casing Bead with Weep Holes
SEALANTS, Backing Rod and Sealant
METAL DOORS AND FRAMES, Punch and Dimple
METAL DOORS AND FRAMES, Frames, Glazing Stop
GLASS
METAL DOORS AND FRAMES, Door, Where Occurs.
Additional Wall Finishes, Where Occurs.
INSULATION, Thermal Blanket
METAL DOORS AND FRAMES, Accessories, Fasteners, 2- #8 x 1" Pan Head Wood Screw, Typ.
METAL DOORS AND FRAMES, Anchor, Wood Stud At 18" O.C Max

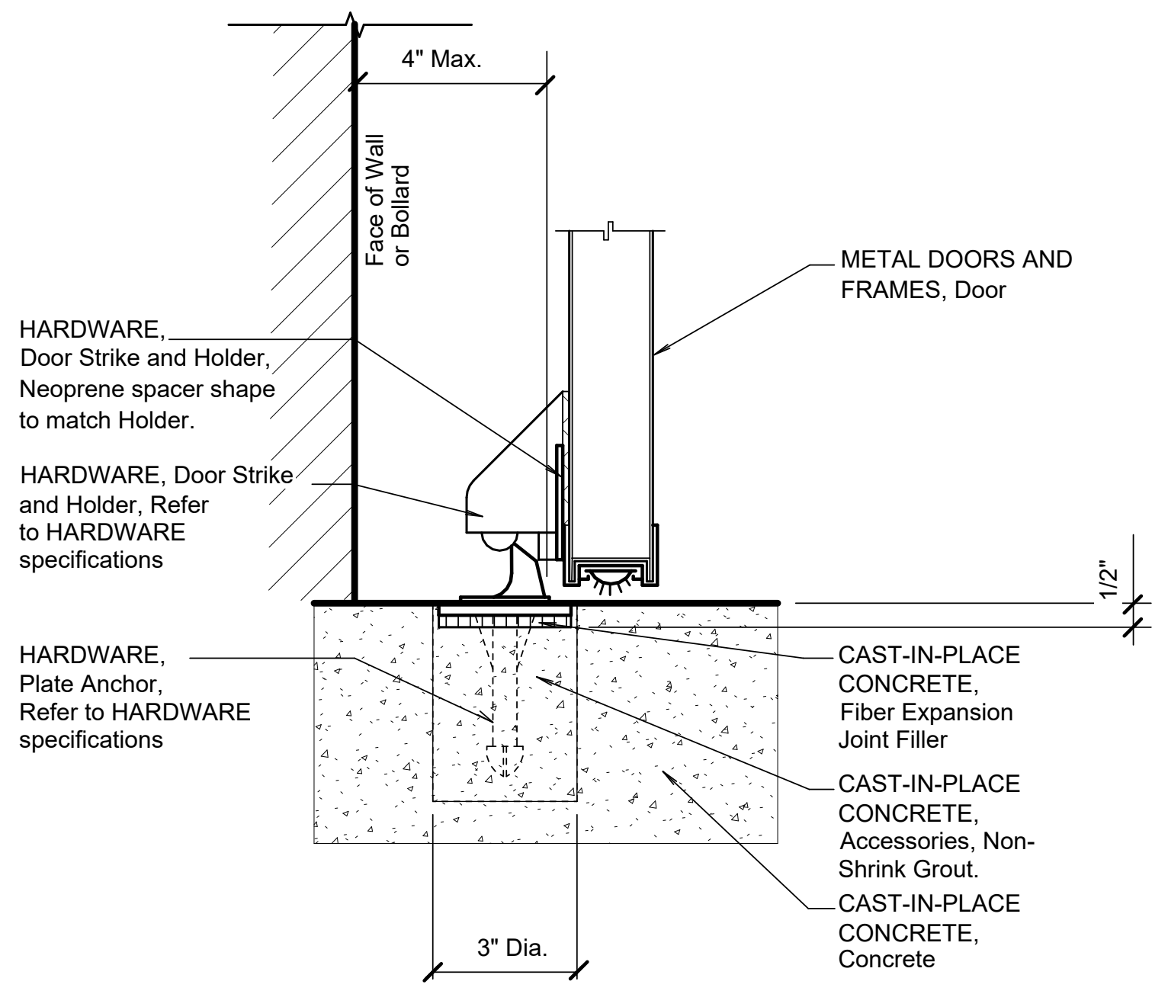
J14
METAL DOORS AND FRAMES, Head at Exterior
3" = 1'-0"


SHEET METAL, Opening Head Flashing, set in sealant over Water Barrier, "Tyvek", and Penetration Flashing. Closed end caps to be welded solid.
SHEET METAL, Hemmed Edge
2"
2"
1/2"
METAL DOORS AND FRAMES, Punch and Dimple Frames, set in sealant over Water Barrier, "Tyvek".
CEMENT PLASTER, System, Jamb Penetration Flashing Sheets, Lap under Head Penetration Flashing and over Integral Flange and Water Barrier, "Tyvek"
Plaster Thickness Plus 1/2"
CEMENT PLASTER, System, Penetration Flashing Sheets, lap over jamb Penetration Flashing Sheet
CEMENT PLASTER, System, Building Paper. Lap over Head & Jamb Penetration Flashing Sheets.
METAL DOORS AND FRAMES, Frames
METAL DOORS AND FRAMES, Punch and Dimple Frames, Set in sealant over Water Barrier.
Plaster Thickness Plus 1/2"
CEMENT PLASTER, System, Building Paper.
CEMENT PLASTER, System, Jamb Penetration Flashing Sheets lap over Integral Flange and over Sill Penetration Flashing Sheets
CEMENT PLASTER, System, Sill Penetration Flashing Sheets, lap over Integral Flange and Water Barrier "Tyvek" and under Jamb Penetration Flashing Sheets.
CEMENT PLASTER, System, Building Wrap
Plaster Thickness Plus 1/2"
CEMENT PLASTER, System, Building Wrap
CEMENT PLASTER, System, Penetration Flashing Sheets
CEMENT PLASTER, System, Building Paper
CEMENT PLASTER, System, Metal Lath
Soffit Condition
SHEET METAL, Opening Head Flashing, set in sealant over Water Barrier, "Tyvek", and Penetration Flashing.
CEMENT PLASTER, System, Metal Accessories, Casing Bead w/ Weep Holes, Set in Sealant
METAL DOORS AND FRAMES, Punch and Dimple Frame
METAL DOORS AND FRAMES, Accessories, Fasteners, 2- #8 x 1 1/2" Pan Head Wood Screw, Typ.
HEAD
CEMENT PLASTER, System, Building Wrap
CEMENT PLASTER, System, Penetration Flashing Sheets
CEMENT PLASTER, System, Building Paper
CEMENT PLASTER, System, Metal Lath
CEMENT PLASTER, System, Metal Accessories, Casing Bead, Set in Sealant
SEALANTS, Backer Rod and Sealant
5/16"
METAL DOORS AND FRAMES, Punch and Dimple Frame
METAL DOORS AND FRAMES, Accessories, Fasteners, 2- #8 x 1 1/2" Pan Head Wood Screw, Typ.
METAL DOORS AND FRAMES, Anchor, Wood Stud
Adjust Throat Depth to Accomodate Anchor
JAMB
METAL DOORS AND FRAMES, Punch and Dimple Frame
SEALANTS, Backer Rod and Sealant
CEMENT PLASTER, System, Metal Accessories, Casing Bead, Set in Sealant
CEMENT PLASTER, System, Metal Lath
METAL DOORS AND FRAMES, Accessories, Fasteners, 2- #8 x 1 1/2" Pan Head Wood Screw, Typ.
CEMENT PLASTER, System, Penetration Flashing Sheets
CEMENT PLASTER, System, Building Paper
CEMENT PLASTER, System, Building Wrap
SILL

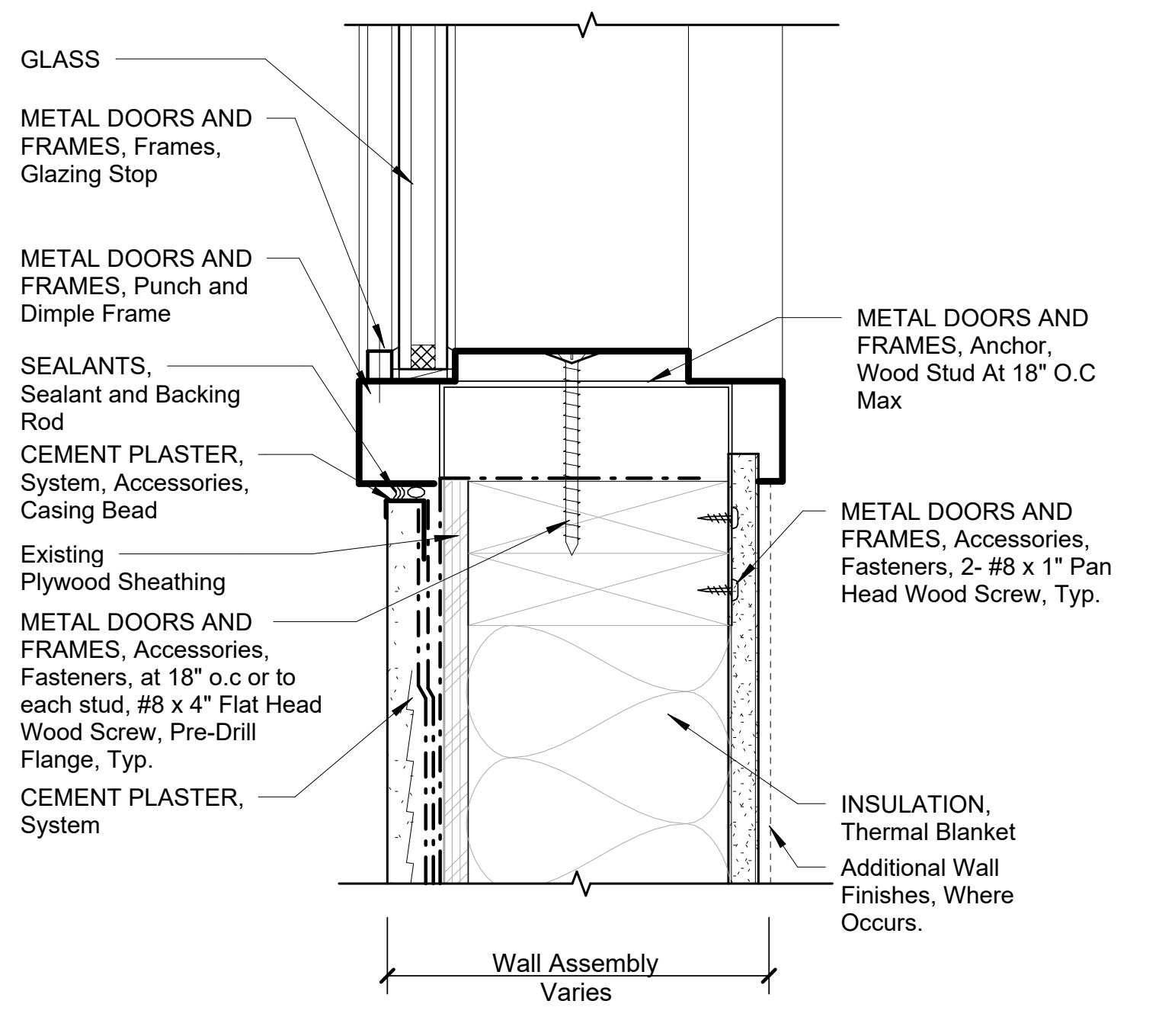
A7
METAL DOORS AND FRAMES,
3" = 1'-0"


Wall Assembly
Varies
CEMENT PLASTER, System
Existing Plywood Sheathing
METAL DOORS AND FRAMES, Accessories, Fasteners, at 18" o.c or to each stud, #8 x 4" Flat Head Wood Screw, Pre-Drill Flange, Typ.
CEMENT PLASTER, System, Metal Accessories, Casing Bead
SEALANTS, Backing Rod and Sealant
METAL DOORS AND FRAMES, Punch and Dimple Frame
METAL DOORS AND FRAMES, Frames, Glazing Stop
GLASS
METAL DOORS AND FRAMES, Door, Where Occurs.
Additional Wall Finishes, Where Occurs.
INSULATION, Thermal Blanket
METAL DOORS AND FRAMES, Accessories, Fasteners, 2- #8 x 1" Pan Head Wood Screw, Typ.
METAL DOORS AND FRAMES, Anchor, Wood Stud At 18" O.C Max

E14
METAL DOORS AND FRAMES, Jamb at Exterior
3" = 1'-0"


4" Max.
Face of Wall or Bollard
METAL DOORS AND FRAMES, Door
HARDWARE, Door Strike and Holder, Neoprene spacer shape to match Holder.
HARDWARE, Door Strike and Holder, Refer to HARDWARE specifications
1/2"
HARDWARE, Plate Anchor, Refer to HARDWARE specifications
CAST-IN-PLACE CONCRETE, Fiber Expansion Joint Filler
CAST-IN-PLACE CONCRETE, Accessories, Non-Shrink Grout.
CAST-IN-PLACE CONCRETE, Concrete
3" Dia.

A4
HARDWARE, Door Strike and Holder
3" = 1'-0"


GLASS
METAL DOORS AND FRAMES, Frames, Glazing Stop
METAL DOORS AND FRAMES, Punch and Dimple Frame
SEALANTS, Sealant and Backing Rod
CEMENT PLASTER, System, Accessories, Casing Bead
Existing Plywood Sheathing
METAL DOORS AND FRAMES, Accessories, Fasteners, at 18" o.c or to each stud, #8 x 4" Flat Head Wood Screw, Pre-Drill Flange, Typ.
CEMENT PLASTER, System
METAL DOORS AND FRAMES, Anchor, Wood Stud At 18" O.C Max
METAL DOORS AND FRAMES, Accessories, Fasteners, 2- #8 x 1" Pan Head Wood Screw, Typ.
INSULATION, Thermal Blanket
Additional Wall Finishes, Where Occurs.
Wall Assembly
Varies

A14
METAL DOORS AND FRAMES, Sill at Exterior
3" = 1'-0"

Community Day School Modernization
Merced City School District
Merced, CA, 95340
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TYPICAL INFORMATION
OPENING DETAILS - HM FRAMES & EXTERIOR
Drawing

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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

	Designed By: -	Copyright 2026 Darden Architects
Scale: As indicated	Drawn By: -	X/A402
Project Number: 2533	Checked By: -	
Date: 2/9/2026	Reviewed By: -	

2/6/2026 11:27:45 AM
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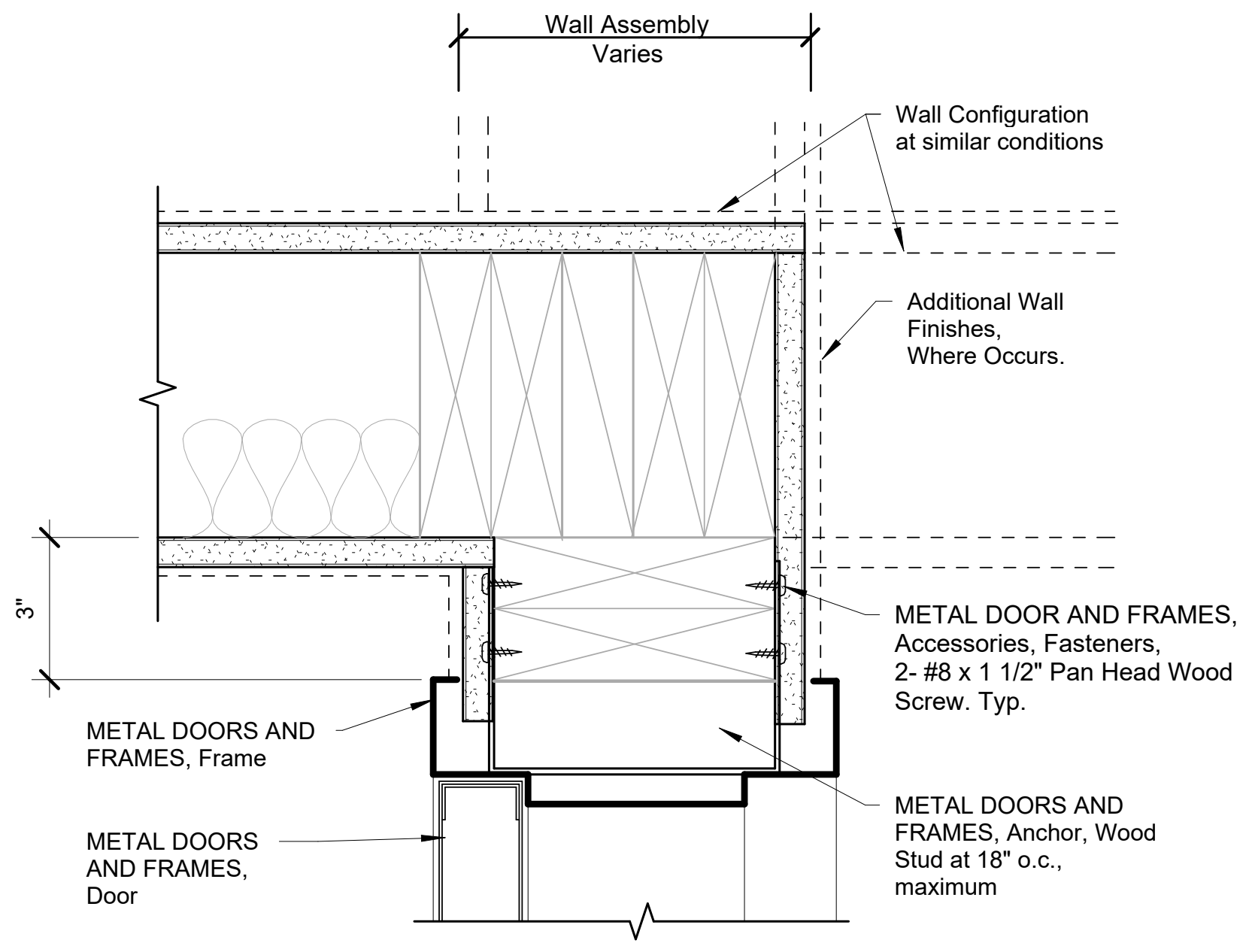
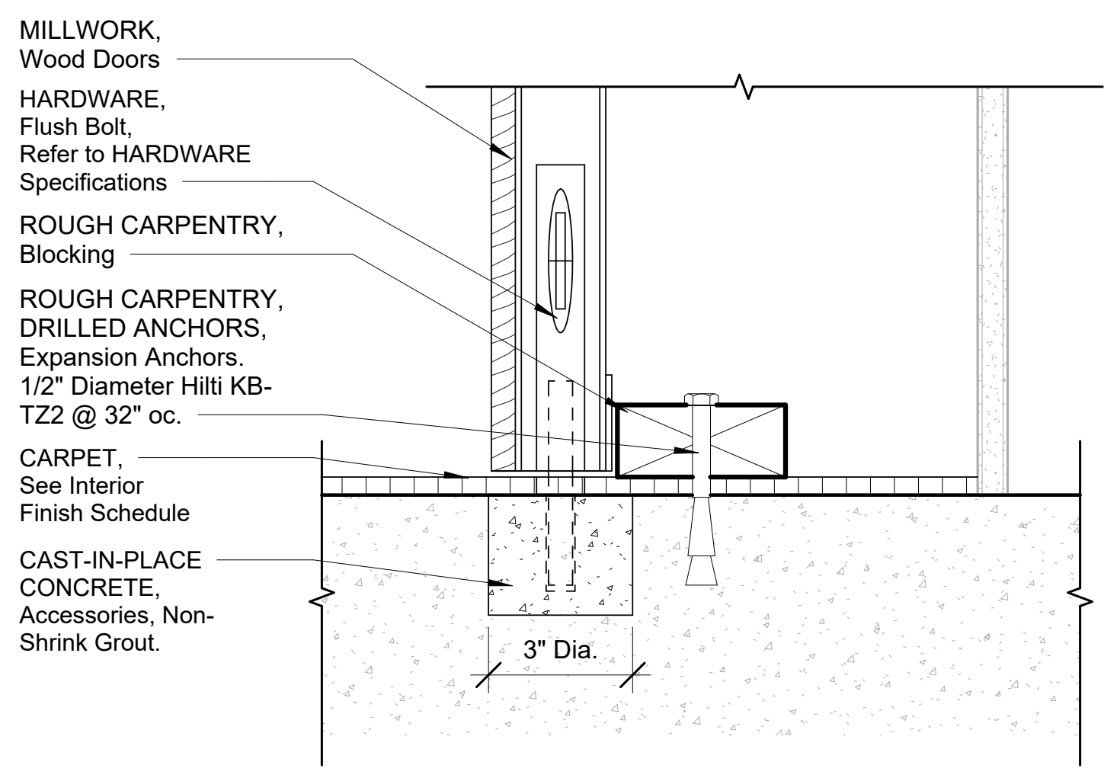
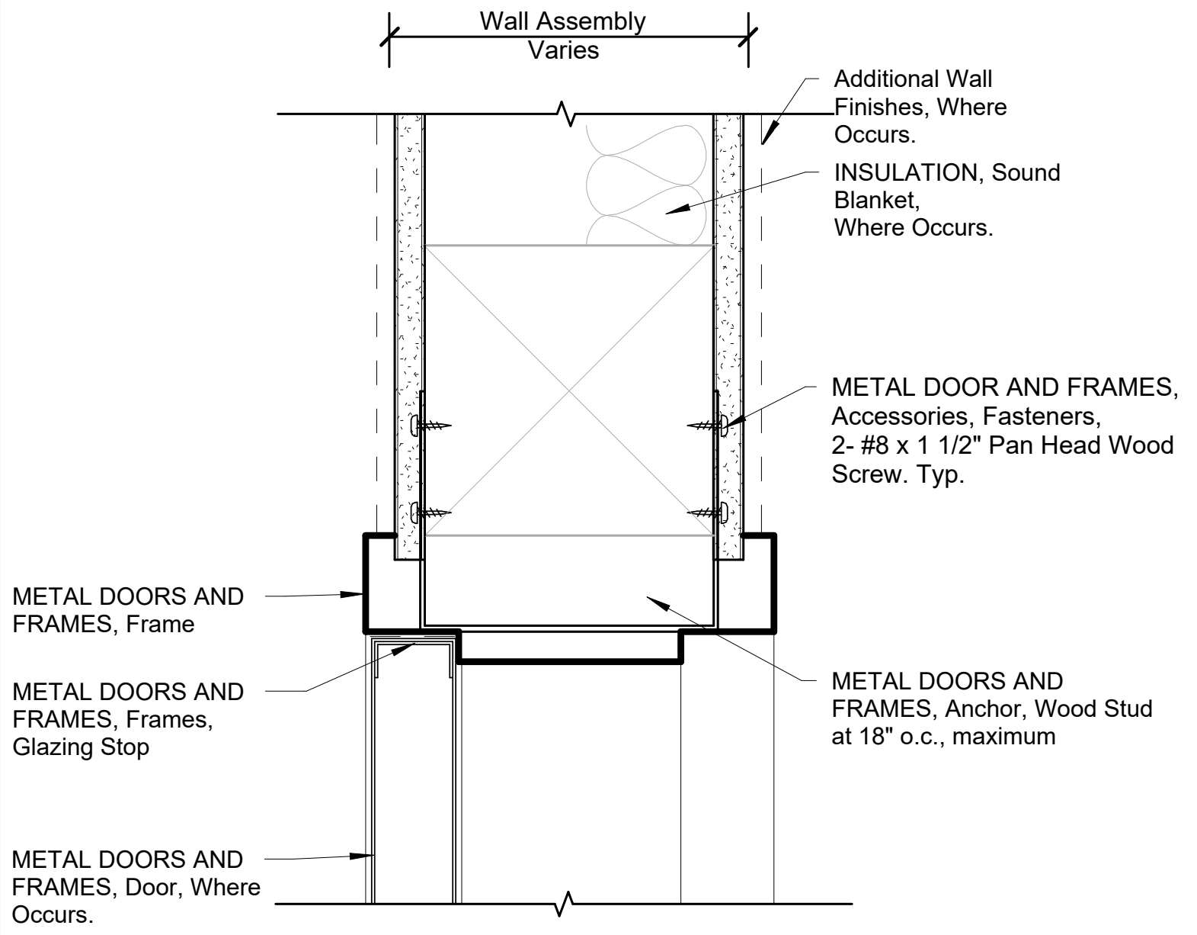


NOTE: Dashed Wall Configuration at Similar Condition

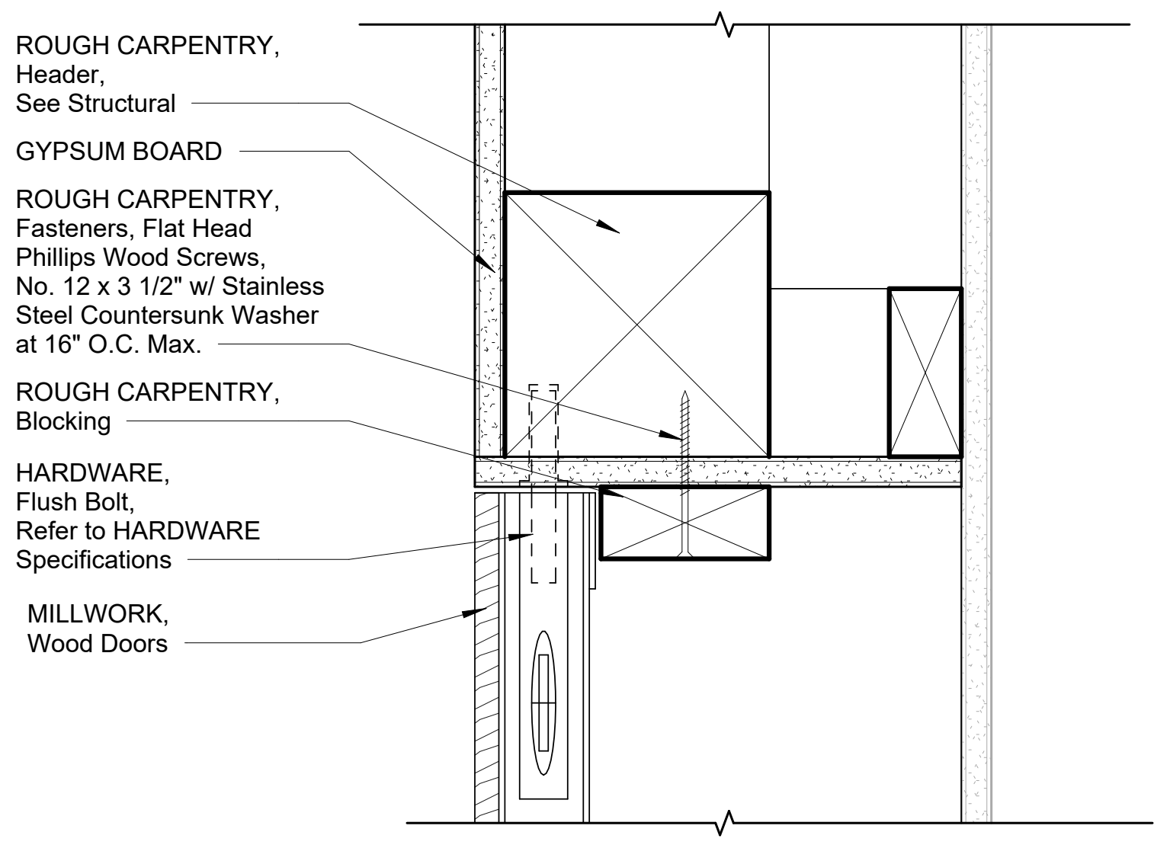
N14 METAL DOORS AND FRAMES, Jamb at Interior 90 Door Swing
3" = 1'-0"



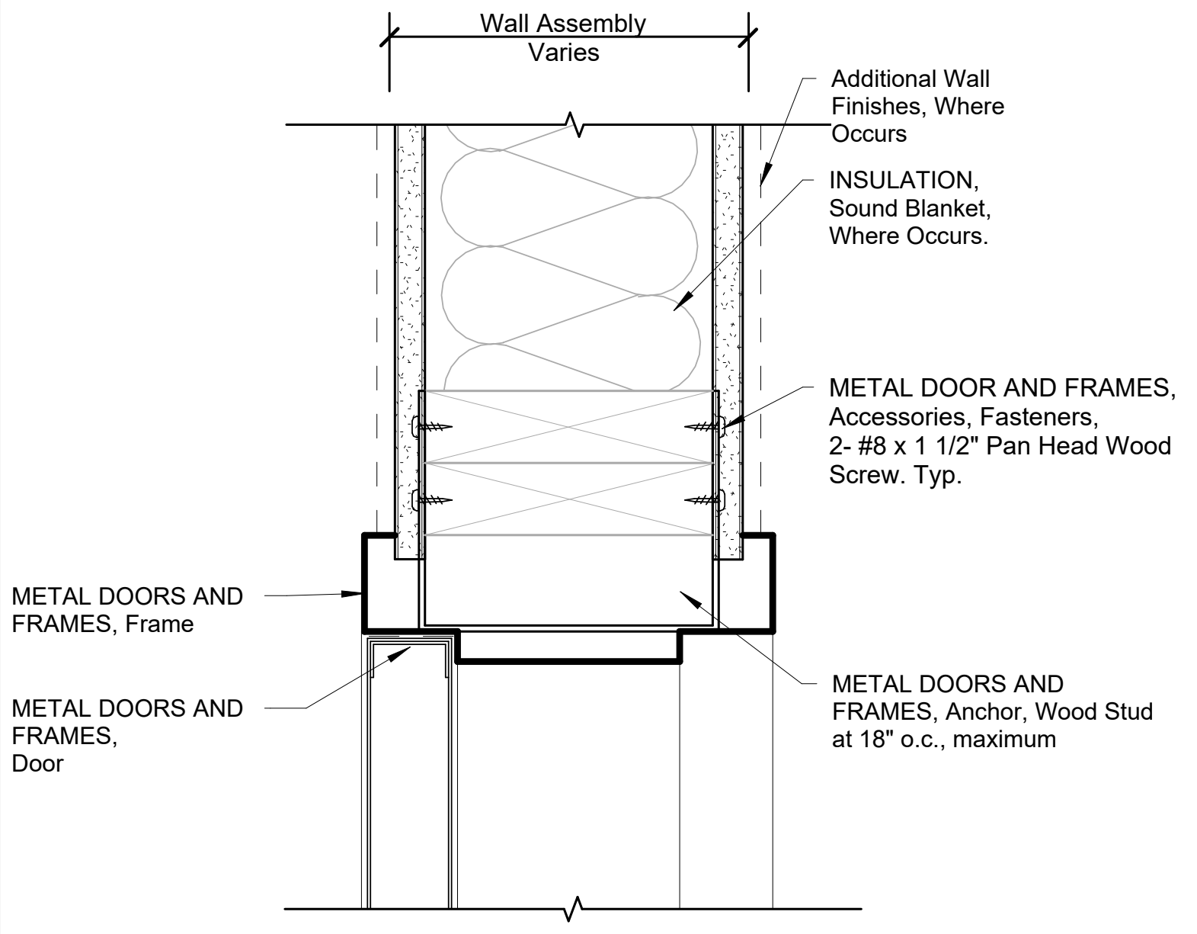
J11 MILLWORK, Threshold Detail
3" = 1'-0"



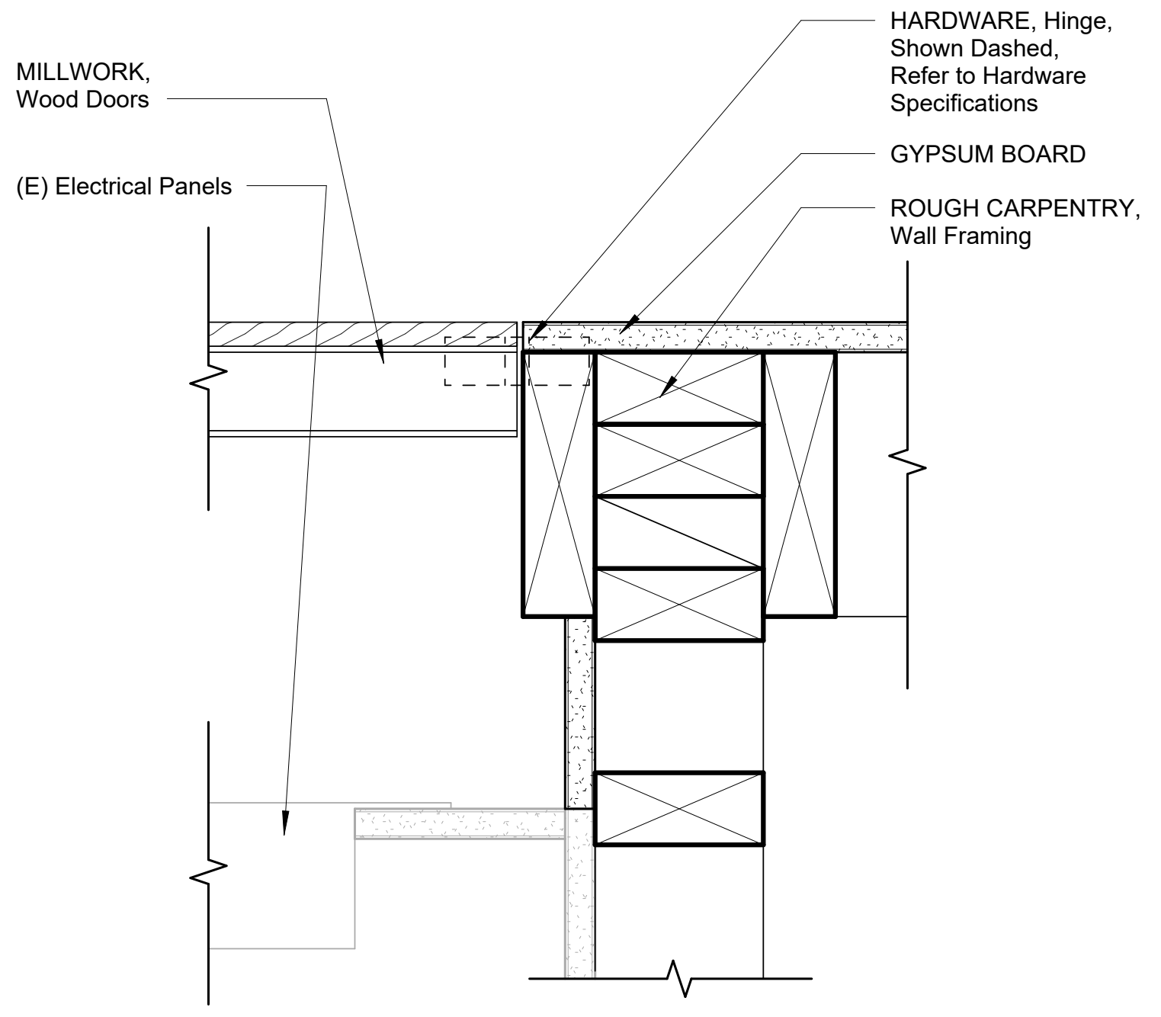
J14 METAL DOORS AND FRAMES, Head at Interior
3" = 1'-0"



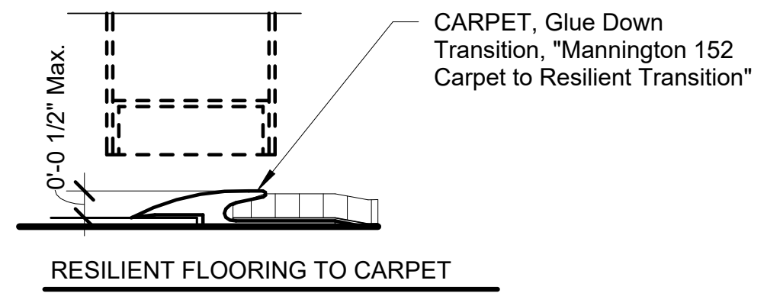
E11 MILLWORK, Header Detail
3" = 1'-0"



E14 METAL DOORS AND FRAMES, Jamb at Interior
3" = 1'-0"



A11 MILLWORK, Jamb Detail
3" = 1'-0"


0'-0 1/2" Max.
CARPET, Glue Down
Transition, "Mannington 152
Carpet to Resilient Transition"
RESILIENT FLOORING TO CARPET

A14 METAL DOORS AND FRAMES, Flooring Transitions, at Interior
3" = 1'-0"

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

Community Day School Modernization
Merced City School District
Merced, CA, 95340
Project

TYPICAL INFORMATION
OPENING DETAILS - HM FRAMES & INTERIOR
Drawing

darden architects
ARCHITECTURE
PLANNING
INTERIORS
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LICENSED ARCHITECT
GRANT E. DODSON
No. C-20,307
Ren. 6-30-27
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: -
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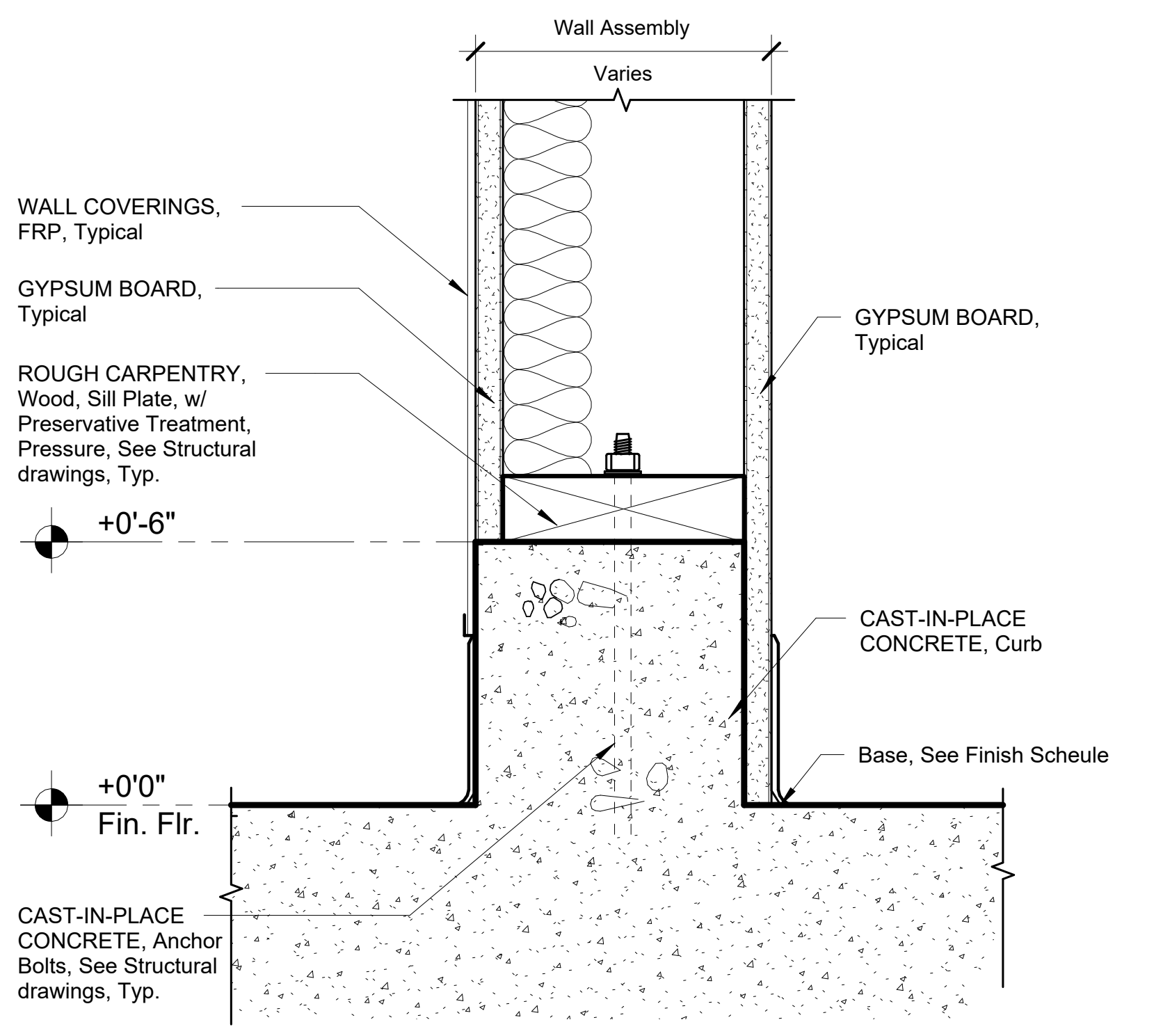
Scale: 3" = 1'-0"
Drawn By: -
Project Number: 2533
Checked By: -
Date: 2/9/2026
Reviewed By: -

X/A403

2/6/2026 11:27:47 AM
D:\Revit Local Files\2533_CDS_Mod_V24_BrandonhFXVM7.rvt


Wall Assembly
Varies
WALL COVERINGS, FRP, Typical
GYPSUM BOARD, Typical
ROUGH CARPENTRY, Wood, Sill Plate, w/ Preservative Treatment, Pressure, See Structural drawings, Typ.
+0'-6"
+0'0"
Fin. Flr.
CAST-IN-PLACE CONCRETE, Anchor Bolts, See Structural drawings, Typ.
GYPSUM BOARD, Typical
CAST-IN-PLACE CONCRETE, Curb
Base, See Finish Scheule

N14

CAST-IN-PLACE CONCRETE, Interior Wall Sill at Concrete Curb

3" = 1'-0"

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

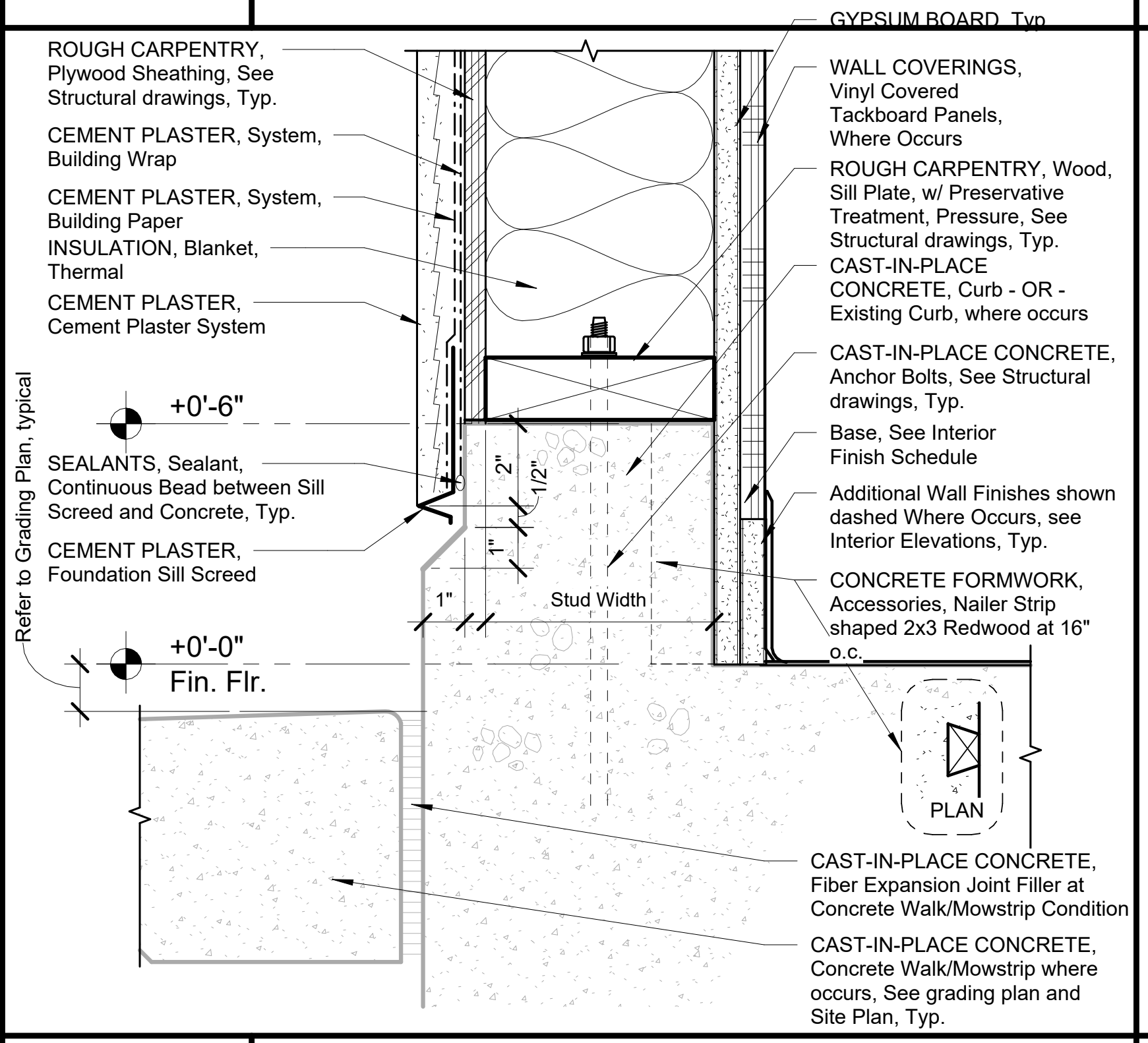
NOTES

1. CEMENT PLASTER, Cement Plaster System, Accessories, Refer to Detail A14 X/A502 Typ
2. SHEET METAL, Architectural, Fascia Panels, Refer to Details J11 X/A502 Typ
3. SHEET METAL, Architectural, Fascia Panels, Outside Corner, Refer to Detail E7 X/A502 Typ
4. SHEET METAL, Architectural, Fascia Panels, Inside Corner, Refer to Detail J7 X/A502 Typ

N18

Exterior Detail Notes

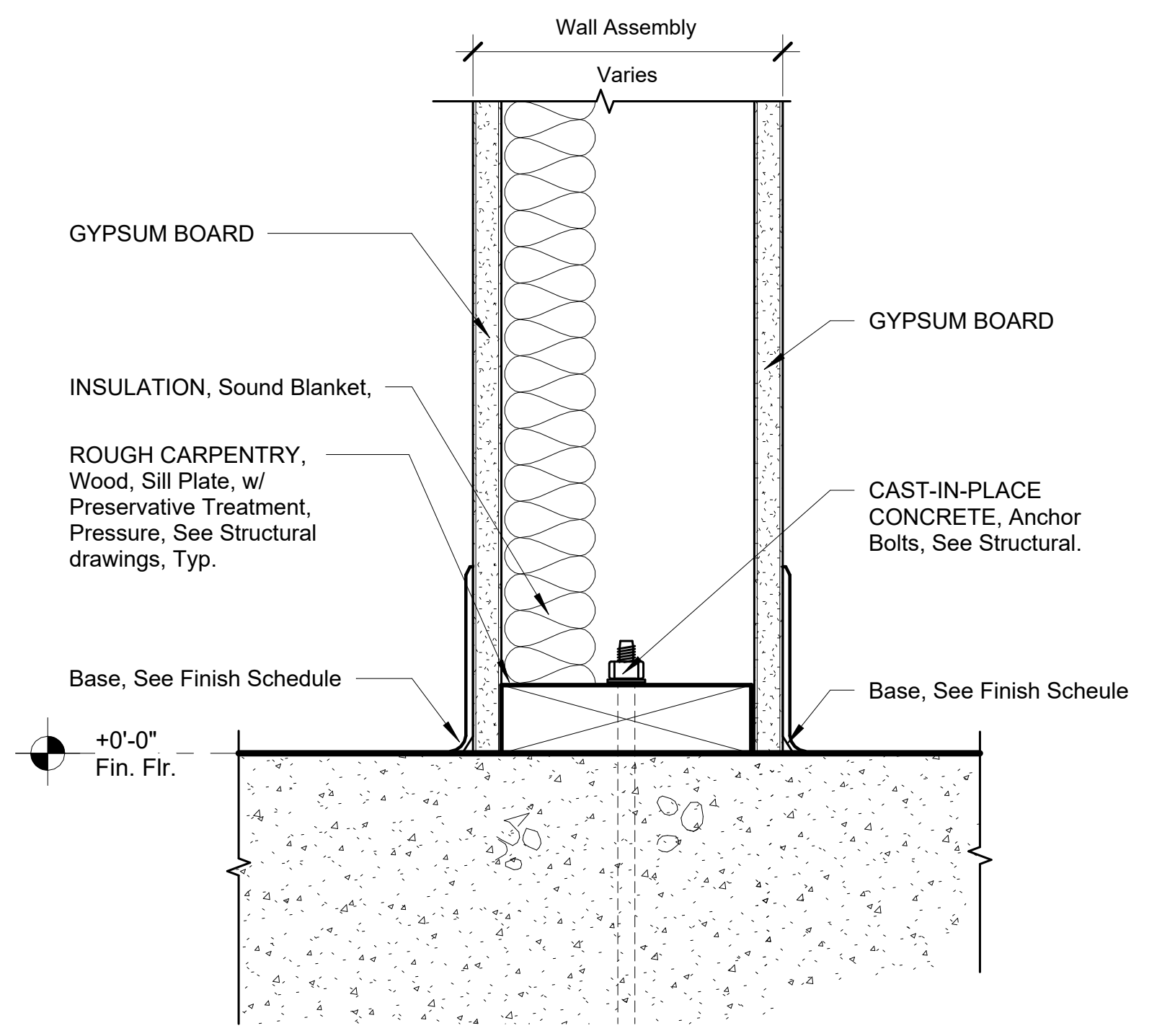
No Scale


ROUGH CARPENTRY, Plywood Sheathing, See Structural drawings, Typ.
CEMENT PLASTER, System, Building Wrap
CEMENT PLASTER, System, Building Paper
INSULATION, Blanket, Thermal
CEMENT PLASTER, Cement Plaster System
Refer to Grading Plan, typical
+0'-6"
SEALANTS, Sealant, Continuous Bead between Sill Screed and Concrete, Typ.
CEMENT PLASTER, Foundation Sill Screed
+0'-0"
Fin. Flr.
2"
1/2"
1"
1"
Stud Width
GYPSUM BOARD, Typ.
WALL COVERINGS, Vinyl Covered Tackboard Panels, Where Occurs
ROUGH CARPENTRY, Wood, Sill Plate, w/ Preservative Treatment, Pressure, See Structural drawings, Typ.
CAST-IN-PLACE CONCRETE, Curb - OR - Existing Curb, where occurs
CAST-IN-PLACE CONCRETE, Anchor Bolts, See Structural drawings, Typ.
Base, See Interior Finish Schedule
Additional Wall Finishes shown dashed Where Occurs, see Interior Elevations, Typ.
CONCRETE FORMWORK, Accessories, Nailer Strip shaped 2x3 Redwood at 16" o.c.
PLAN
CAST-IN-PLACE CONCRETE, Fiber Expansion Joint Filler at Concrete Walk/Mowstrip Condition
CAST-IN-PLACE CONCRETE, Concrete Walk/Mowstrip where occurs, See grading plan and Site Plan, Typ.

J11

CAST-IN-PLACE CONCRETE, Exterior Wall Sill at Concrete Curb

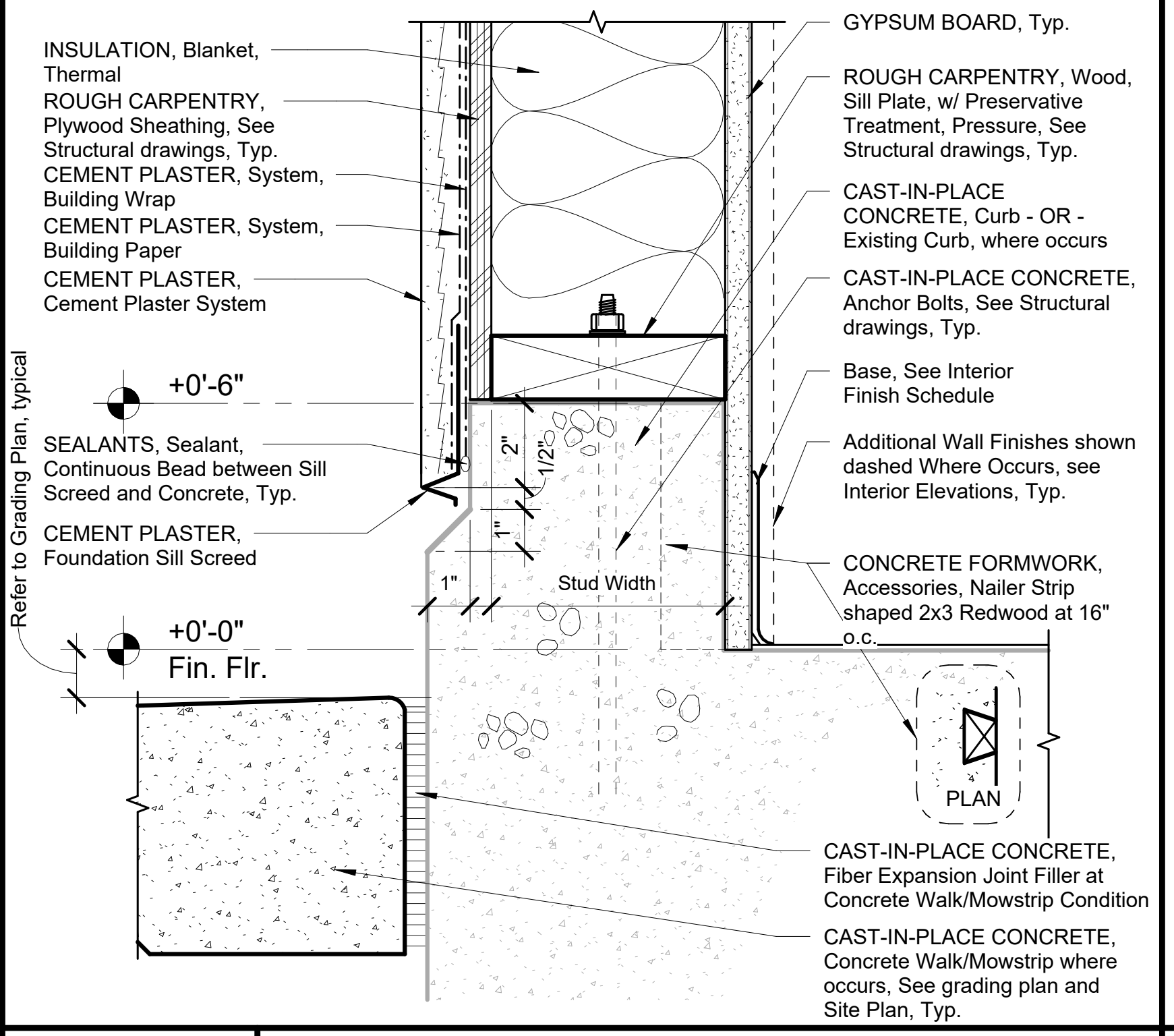
3" = 1'-0"


Wall Assembly
Varies
GYPSUM BOARD
INSULATION, Sound Blanket,
ROUGH CARPENTRY, Wood, Sill Plate, w/ Preservative Treatment, Pressure, See Structural drawings, Typ.
Base, See Finish Schedule
+0'-0"
Fin. Flr.
GYPSUM BOARD
CAST-IN-PLACE CONCRETE, Anchor Bolts, See Structural.
Base, See Finish Scheule

J14

CAST-IN-PLACE CONCRETE, Interior Wall Sill at Concrete Wall Base

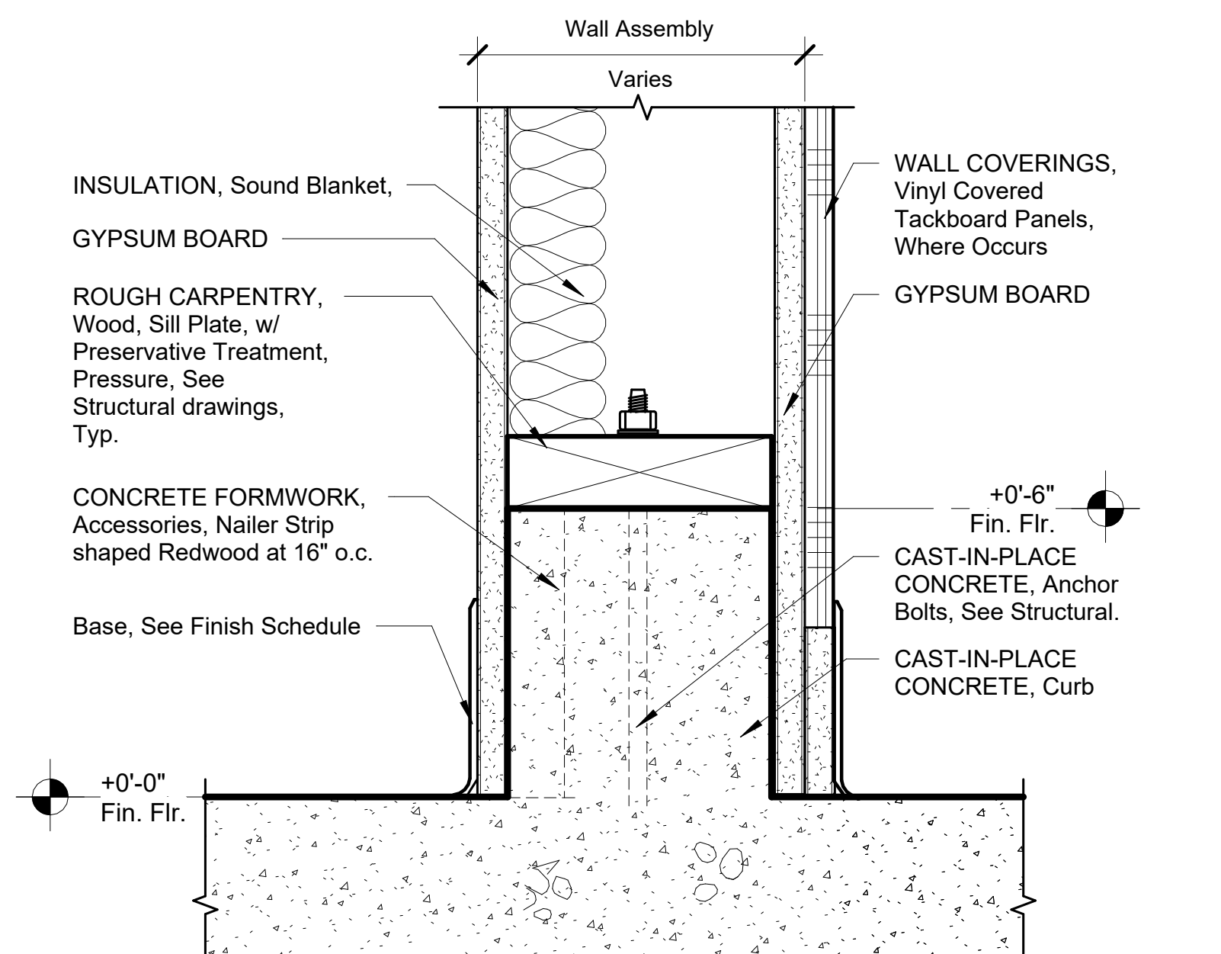
3" = 1'-0"


INSULATION, Blanket, Thermal
ROUGH CARPENTRY, Plywood Sheathing, See Structural drawings, Typ.
CEMENT PLASTER, System, Building Wrap
CEMENT PLASTER, System, Building Paper
CEMENT PLASTER, Cement Plaster System
Refer to Grading Plan, typical
+0'-6"
SEALANTS, Sealant, Continuous Bead between Sill Screed and Concrete, Typ.
CEMENT PLASTER, Foundation Sill Screed
+0'-0"
Fin. Flr.
2"
1/2"
1"
1"
Stud Width
GYPSUM BOARD, Typ.
ROUGH CARPENTRY, Wood, Sill Plate, w/ Preservative Treatment, Pressure, See Structural drawings, Typ.
CAST-IN-PLACE CONCRETE, Curb - OR - Existing Curb, where occurs
CAST-IN-PLACE CONCRETE, Anchor Bolts, See Structural drawings, Typ.
Base, See Interior Finish Schedule
Additional Wall Finishes shown dashed Where Occurs, see Interior Elevations, Typ.
CONCRETE FORMWORK, Accessories, Nailer Strip shaped 2x3 Redwood at 16" o.c.
PLAN
CAST-IN-PLACE CONCRETE, Fiber Expansion Joint Filler at Concrete Walk/Mowstrip Condition
CAST-IN-PLACE CONCRETE, Concrete Walk/Mowstrip where occurs, See grading plan and Site Plan, Typ.

E11

CAST-IN-PLACE CONCRETE, Exterior Wall Sill at Concrete Curb

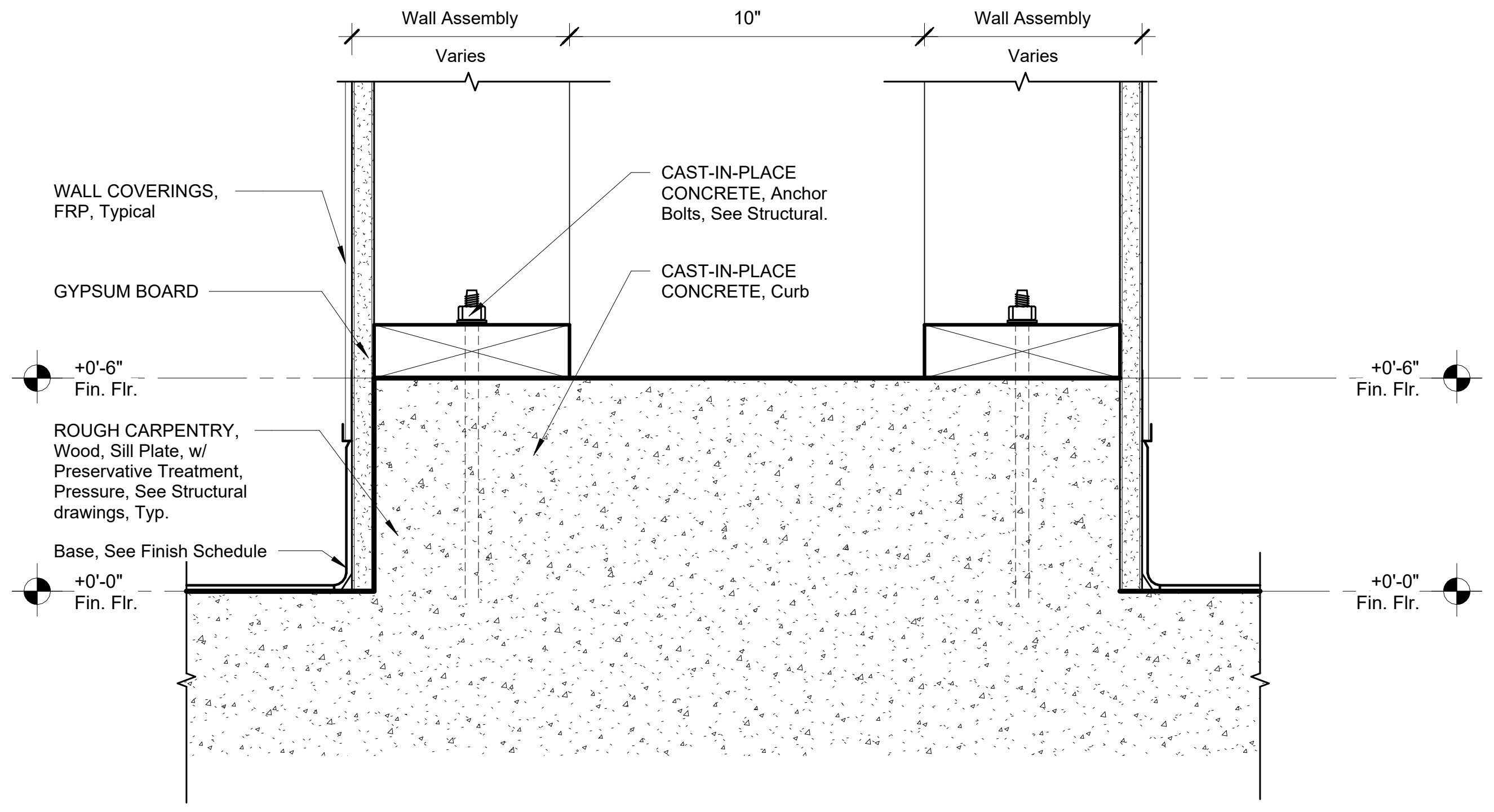
3" = 1'-0"


Wall Assembly
Varies
INSULATION, Sound Blanket,
GYPSUM BOARD
ROUGH CARPENTRY, Wood, Sill Plate, w/ Preservative Treatment, Pressure, See Structural drawings, Typ.
CONCRETE FORMWORK, Accessories, Nailer Strip shaped Redwood at 16" o.c.
Base, See Finish Schedule
+0'-0"
Fin. Flr.
WALL COVERINGS, Vinyl Covered Tackboard Panels, Where Occurs
GYPSUM BOARD
+0'-6"
Fin. Flr.
CAST-IN-PLACE CONCRETE, Anchor Bolts, See Structural.
CAST-IN-PLACE CONCRETE, Curb

E14

CAST-IN-PLACE CONCRETE, Interior Wall Sill at Concrete Curb

3" = 1'-0"


Wall Assembly
Varies
10"
Wall Assembly
Varies
WALL COVERINGS, FRP, Typical
GYPSUM BOARD
+0'-6"
Fin. Flr.
ROUGH CARPENTRY, Wood, Sill Plate, w/ Preservative Treatment, Pressure, See Structural drawings, Typ.
Base, See Finish Schedule
+0'-0"
Fin. Flr.
CAST-IN-PLACE CONCRETE, Anchor Bolts, See Structural.
CAST-IN-PLACE CONCRETE, Curb
+0'-6"
Fin. Flr.
+0'-0"
Fin. Flr.

A11

CAST-IN-PLACE CONCRETE, Interior Wall Sill at Concrete Wall Base

3" = 1'-0"

Community Day School Modernization
Merced City School District
Merced, CA, 95340
Project

TYPICAL INFORMATION
EXTERIOR DETAILS - CONCRETE CURBS
Drawing

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Project Number: 2533	Checked By: -	
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2/6/2026 11:27:50 AM
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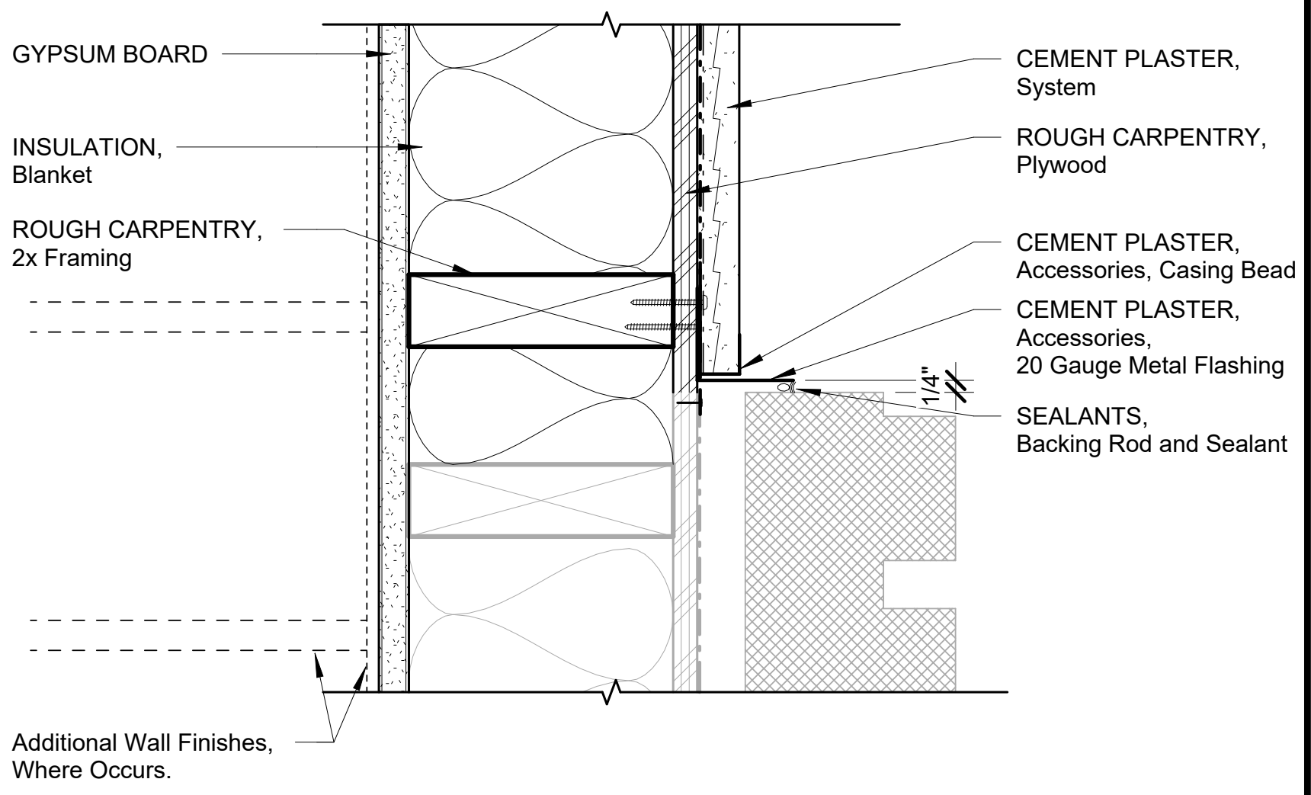
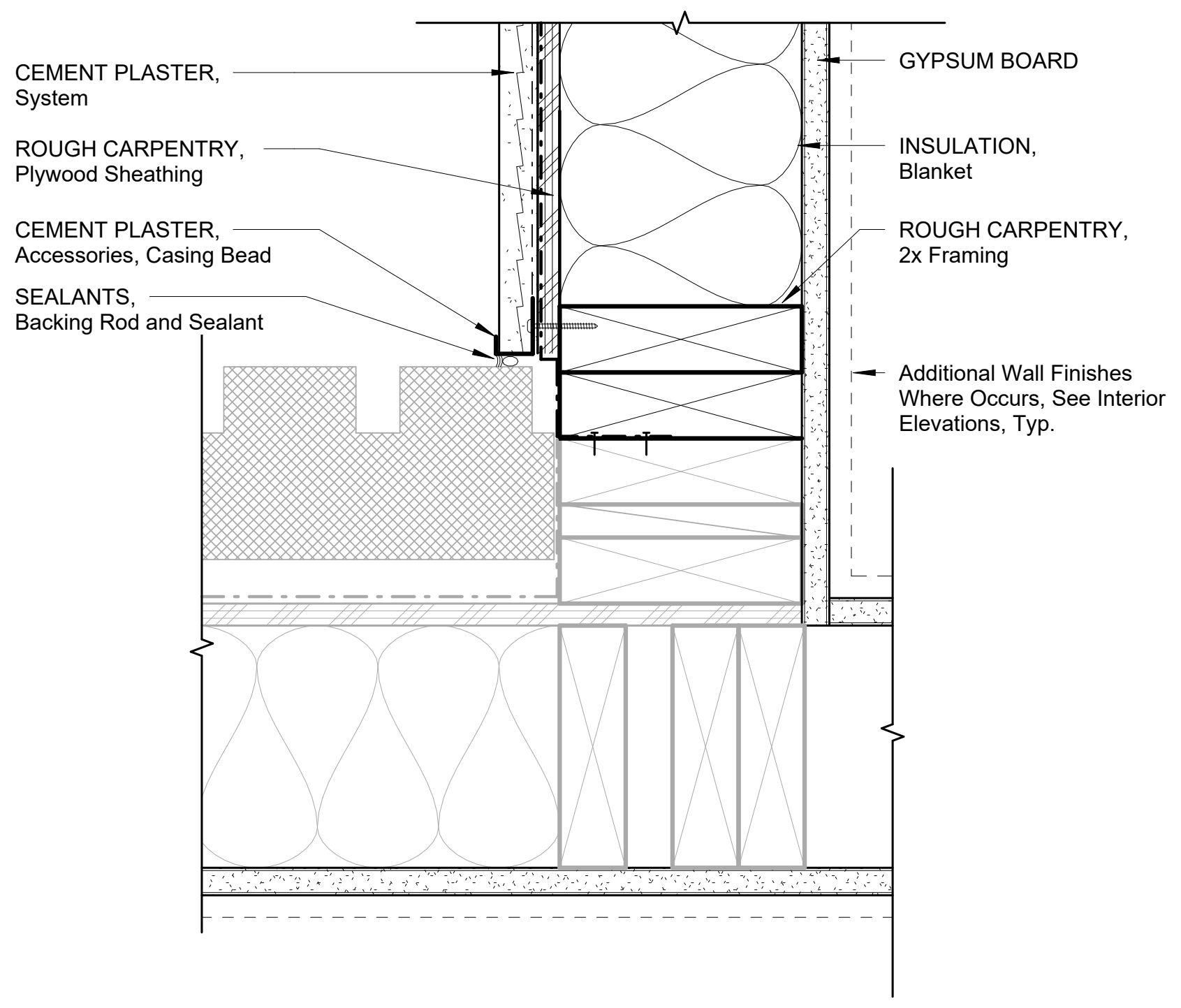

GYPSUM BOARD
INSULATION, Blanket
ROUGH CARPENTRY, 2x Framing
Additional Wall Finishes, Where Occurs.
CEMENT PLASTER, System
ROUGH CARPENTRY, Plywood
CEMENT PLASTER, Accessories, Casing Bead
CEMENT PLASTER, Accessories, 20 Gauge Metal Flashing
SEALANTS, Backing Rod and Sealant
1/4"

N11 — CEMENT PLASTER, Plaster to Veneer Transition

3" = 1'-0"


CEMENT PLASTER, System
ROUGH CARPENTRY, Plywood Sheathing
CEMENT PLASTER, Accessories, Casing Bead
SEALANTS, Backing Rod and Sealant
GYPSUM BOARD
INSULATION, Blanket
ROUGH CARPENTRY, 2x Framing
Additional Wall Finishes Where Occurs, See Interior Elevations, Typ.

N14 — CEMENT PLASTER, Plaster to Veneer Corner Transition

3" = 1'-0"

DSA File No.:
24-35

DSA Application No.:
02-123716

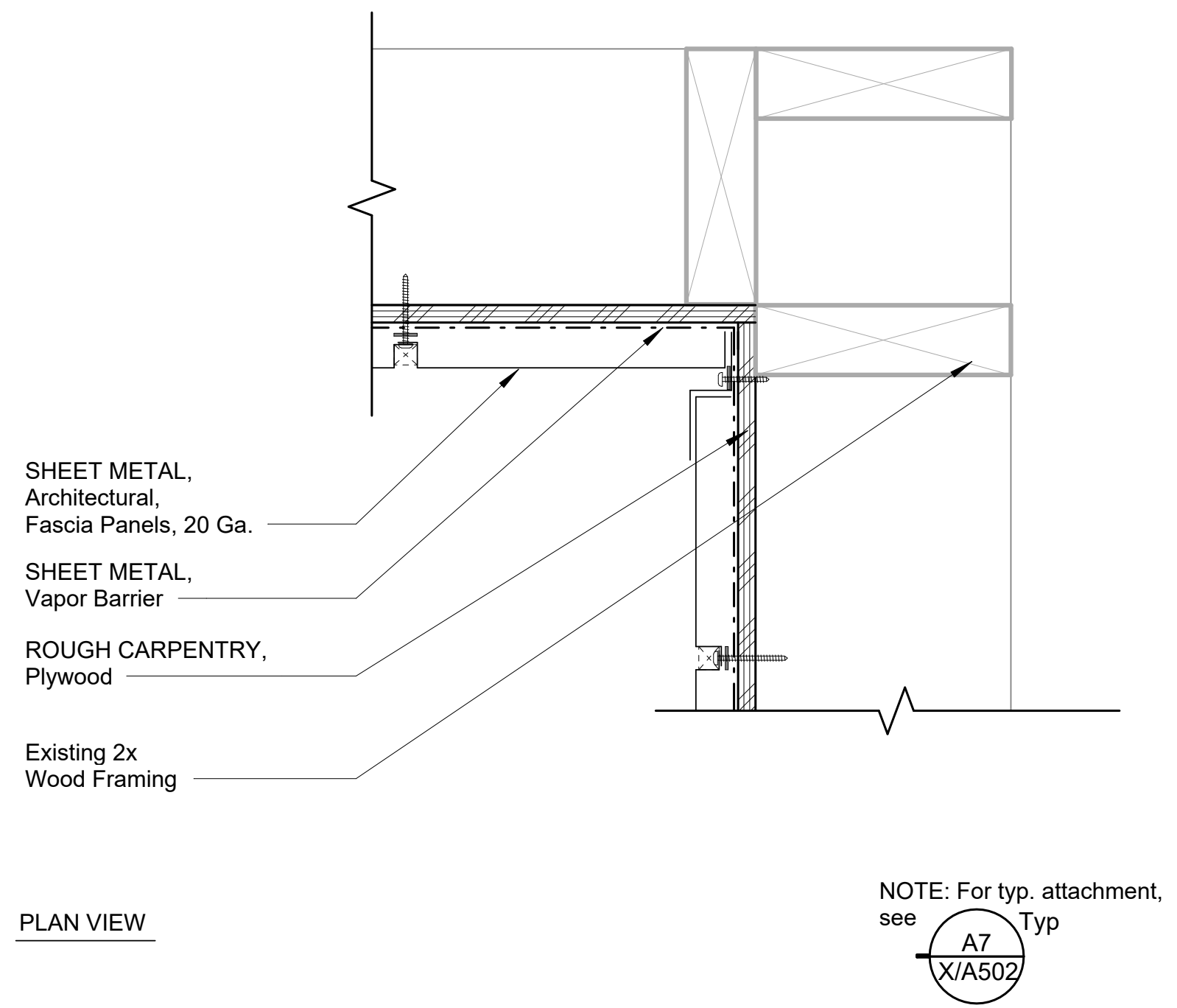
Agency Approval

NOTES

1. CEMENT PLASTER, Cement Plaster System, Accessories, Refer to Detail A14 X/A502 Typ
2. SHEET METAL, Architectural, Fascia Panels, Refer to Details J11 X/A502 Typ
3. SHEET METAL, Architectural, Fascia Panels, Outside Corner, Refer to Detail E7 X/A502 Typ
4. SHEET METAL, Architectural, Fascia Panels, Inside Corner, Refer to Detail J7 X/A502 Typ

N18 — Exterior Detail Notes

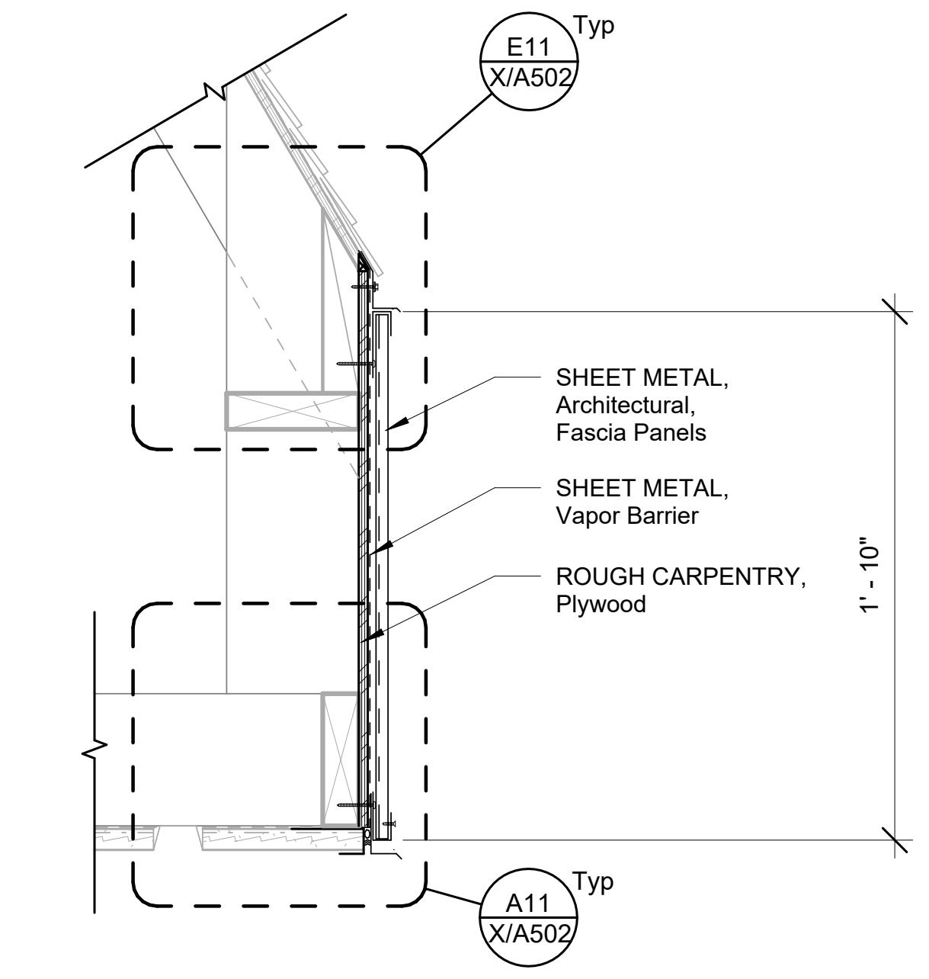
No Scale


SHEET METAL, Architectural, Fascia Panels, 20 Ga.
SHEET METAL, Vapor Barrier
ROUGH CARPENTRY, Plywood
Existing 2x Wood Framing
PLAN VIEW

NOTE: For typ. attachment, see A7 X/A502 Typ

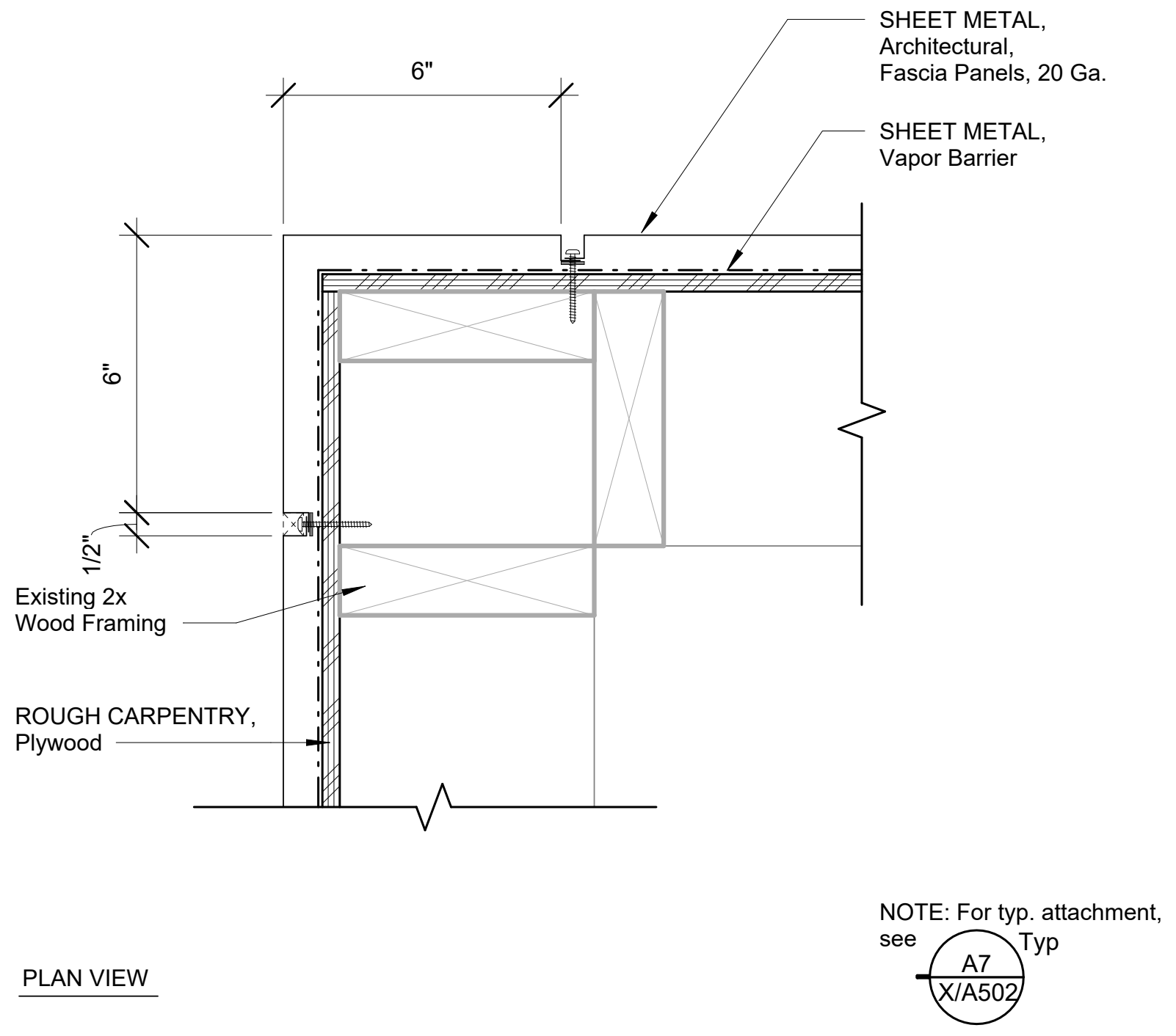
J7 — SHEET METAL, Architectural, Fascia Panels, Inside Corner

3" = 1'-0"


E11 X/A502 Typ
SHEET METAL, Architectural, Fascia Panels
SHEET METAL, Vapor Barrier
ROUGH CARPENTRY, Plywood
1' - 10"
A11 X/A502 Typ

J11 — SHEET METAL, Architectural, Fascia Panels

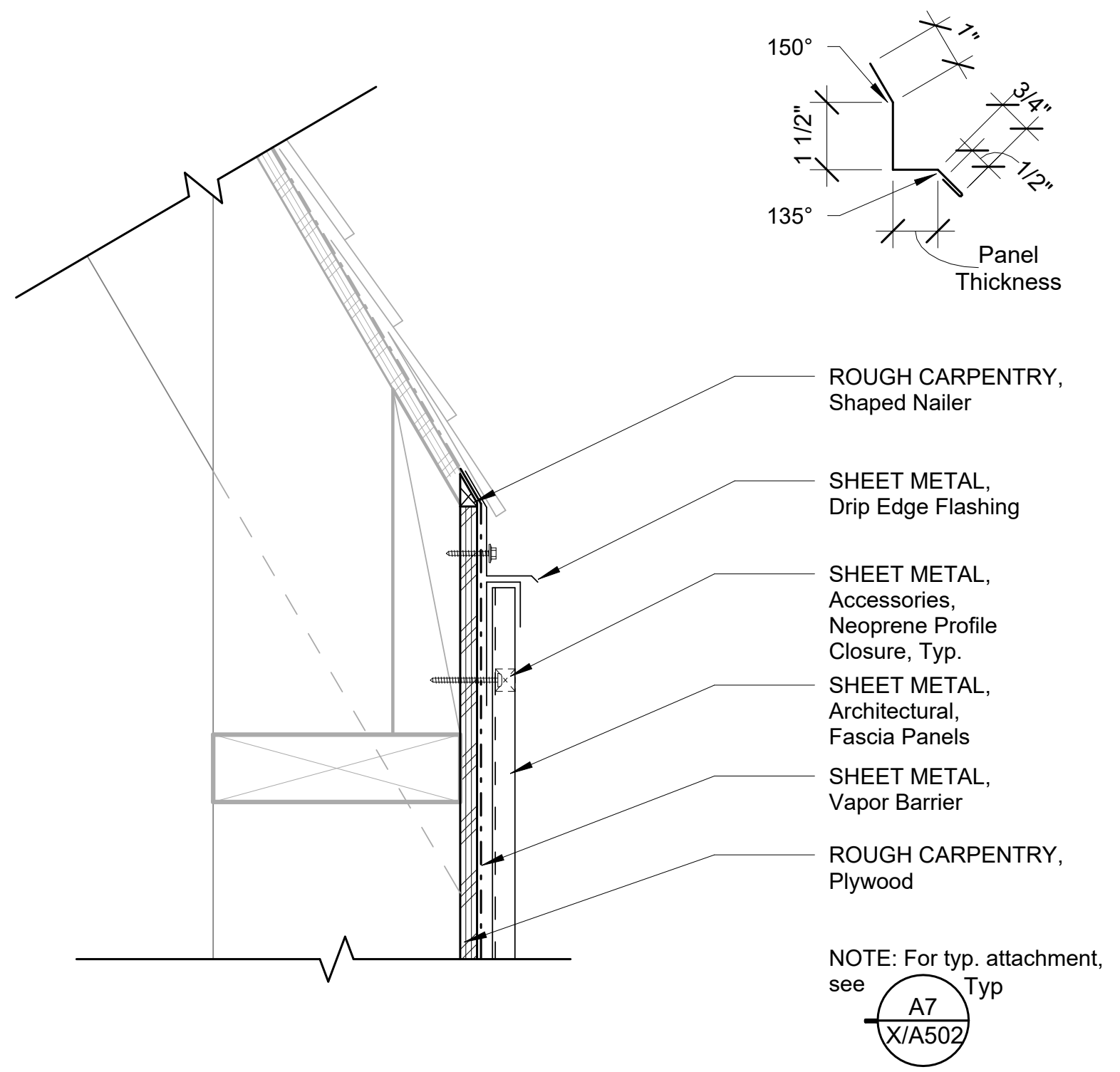
1 1/2" = 1'-0"


6"
6"
1/2"
SHEET METAL, Architectural, Fascia Panels, 20 Ga.
SHEET METAL, Vapor Barrier
Existing 2x Wood Framing
ROUGH CARPENTRY, Plywood
PLAN VIEW

NOTE: For typ. attachment, see A7 X/A502 Typ

E7 — SHEET METAL, Architectural, Fascia Panels, Outside Corner

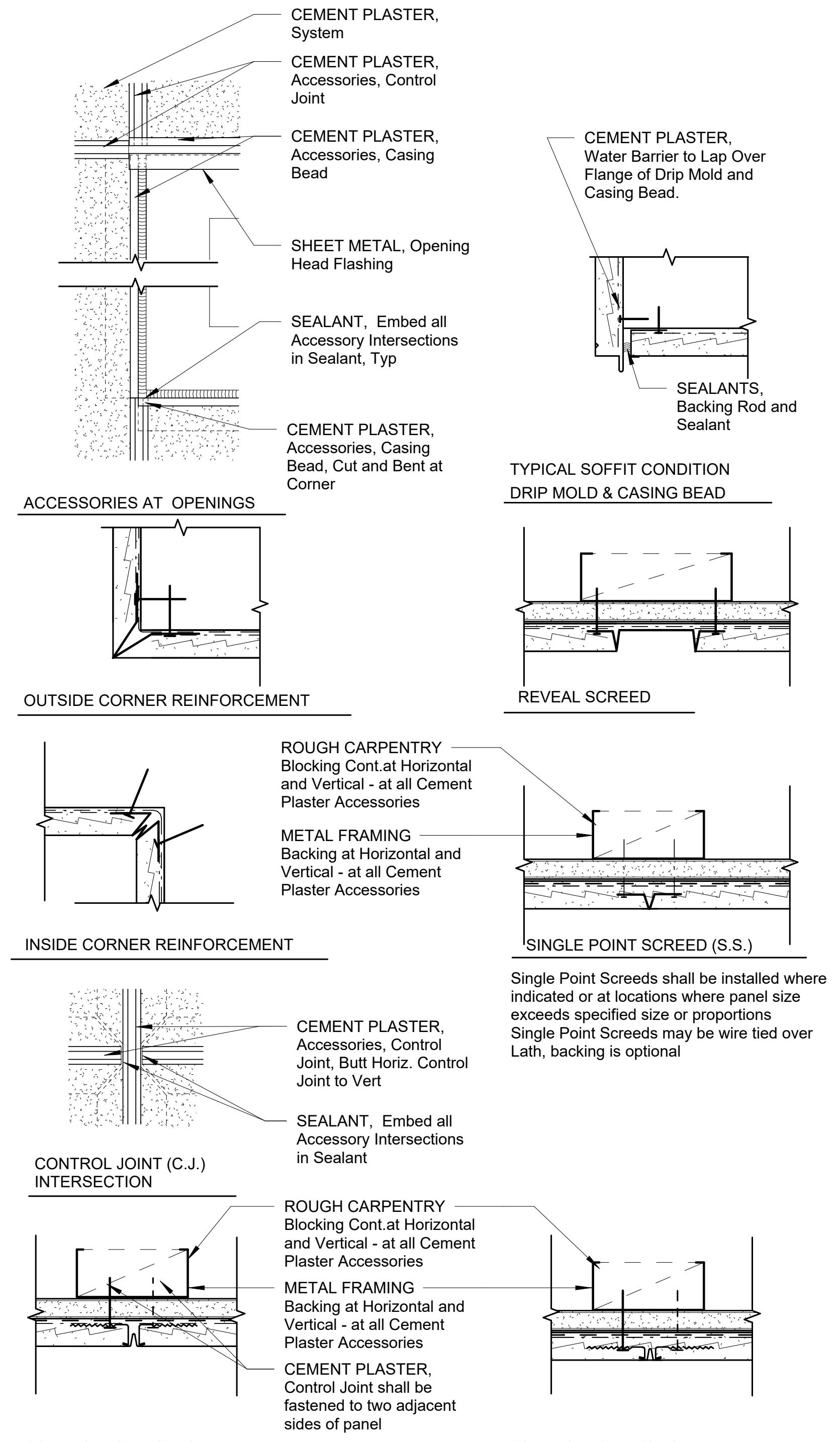
3" = 1'-0"


150°
1"
3/4"
1 1/2"
1/2"
135°
Panel Thickness
ROUGH CARPENTRY, Shaped Nailer
SHEET METAL, Drip Edge Flashing
SHEET METAL, Accessories, Neoprene Profile Closure, Typ.
SHEET METAL, Architectural, Fascia Panels
SHEET METAL, Vapor Barrier
ROUGH CARPENTRY, Plywood

NOTE: For typ. attachment, see A7 X/A502 Typ

E11 — SHEET METAL, Architectural, Fascia Panels at Shingles

3" = 1'-0"

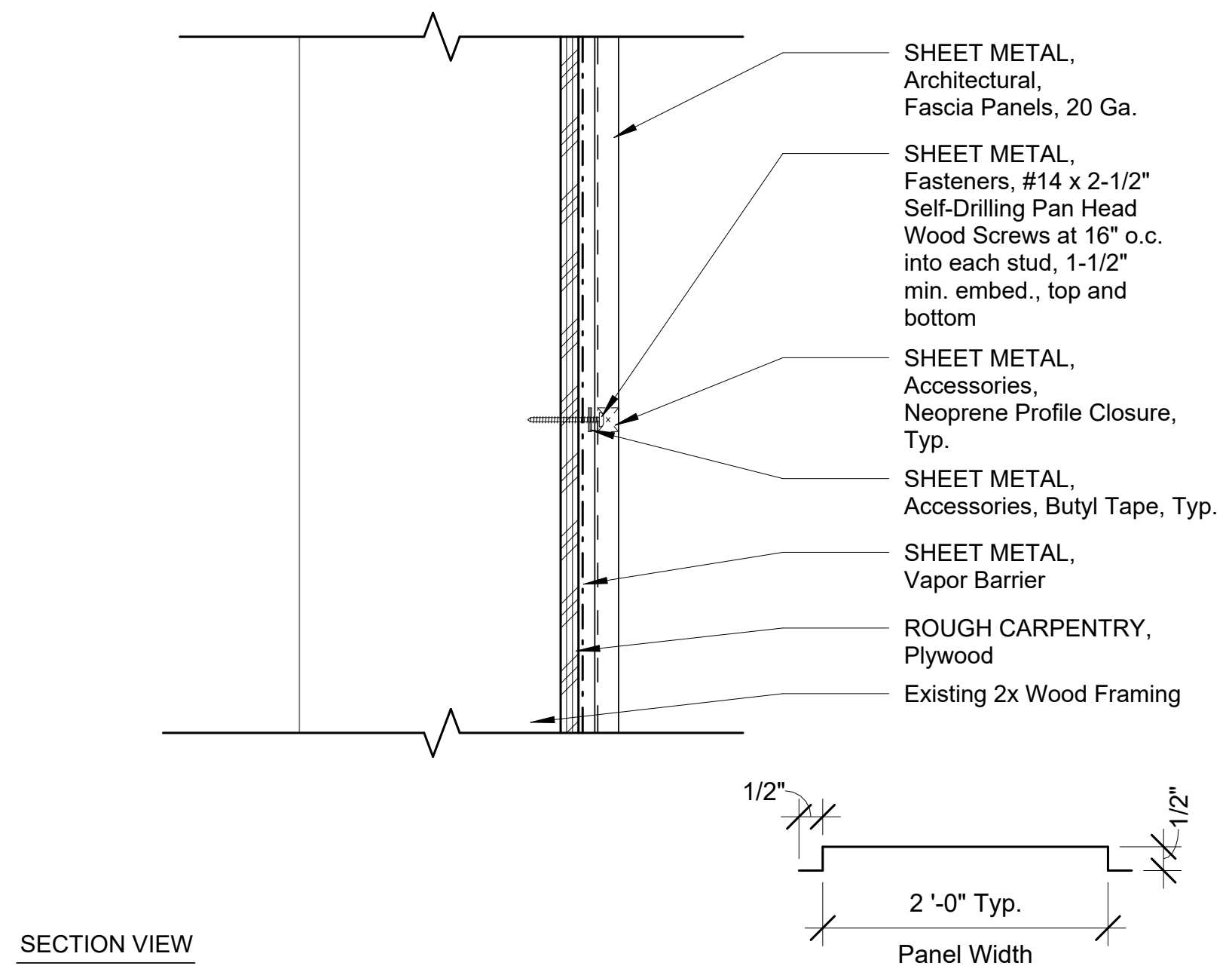

CEMENT PLASTER, System
CEMENT PLASTER, Accessories, Control Joint
CEMENT PLASTER, Accessories, Casing Bead
SHEET METAL, Opening Head Flashing
SEALANT, Embed all Accessory Intersections in Sealant, Typ
CEMENT PLASTER, Accessories, Casing Bead, Cut and Bent at Corner
ACCESSORIES AT OPENINGS
CEMENT PLASTER, Water Barrier to Lap Over Flange of Drip Mold and Casing Bead.
SEALANTS, Backing Rod and Sealant
TYPICAL SOFFIT CONDITION DRIP MOLD & CASING BEAD
OUTSIDE CORNER REINFORCEMENT
REVEAL SCREED
ROUGH CARPENTRY Blocking Cont.at Horizontal and Vertical - at all Cement Plaster Accessories
METAL FRAMING Backing at Horizontal and Vertical - at all Cement Plaster Accessories
INSIDE CORNER REINFORCEMENT
SINGLE POINT SCREED (S.S.)
CEMENT PLASTER, Accessories, Control Joint, Butt Horiz. Control Joint to Vert
SEALANT, Embed all Accessory Intersections in Sealant
CONTROL JOINT (C.J.) INTERSECTION
ROUGH CARPENTRY Blocking Cont.at Horizontal and Vertical - at all Cement Plaster Accessories
METAL FRAMING Backing at Horizontal and Vertical - at all Cement Plaster Accessories
CEMENT PLASTER, Control Joint shall be fastened to two adjacent sides of panel
CONTROL JOINT (C.J.) Type "A"
CONTROL JOINT (C.J.) Type "B"

Single Point Screeds shall be installed where indicated or at locations where panel size exceeds specified size or proportions
Single Point Screeds may be wire tied over Lath, backing is optional

Type "A" Control Joints shall be installed at locations indicated on the drawings to achieve the panel size and panel proportions as indicated in the Specifications

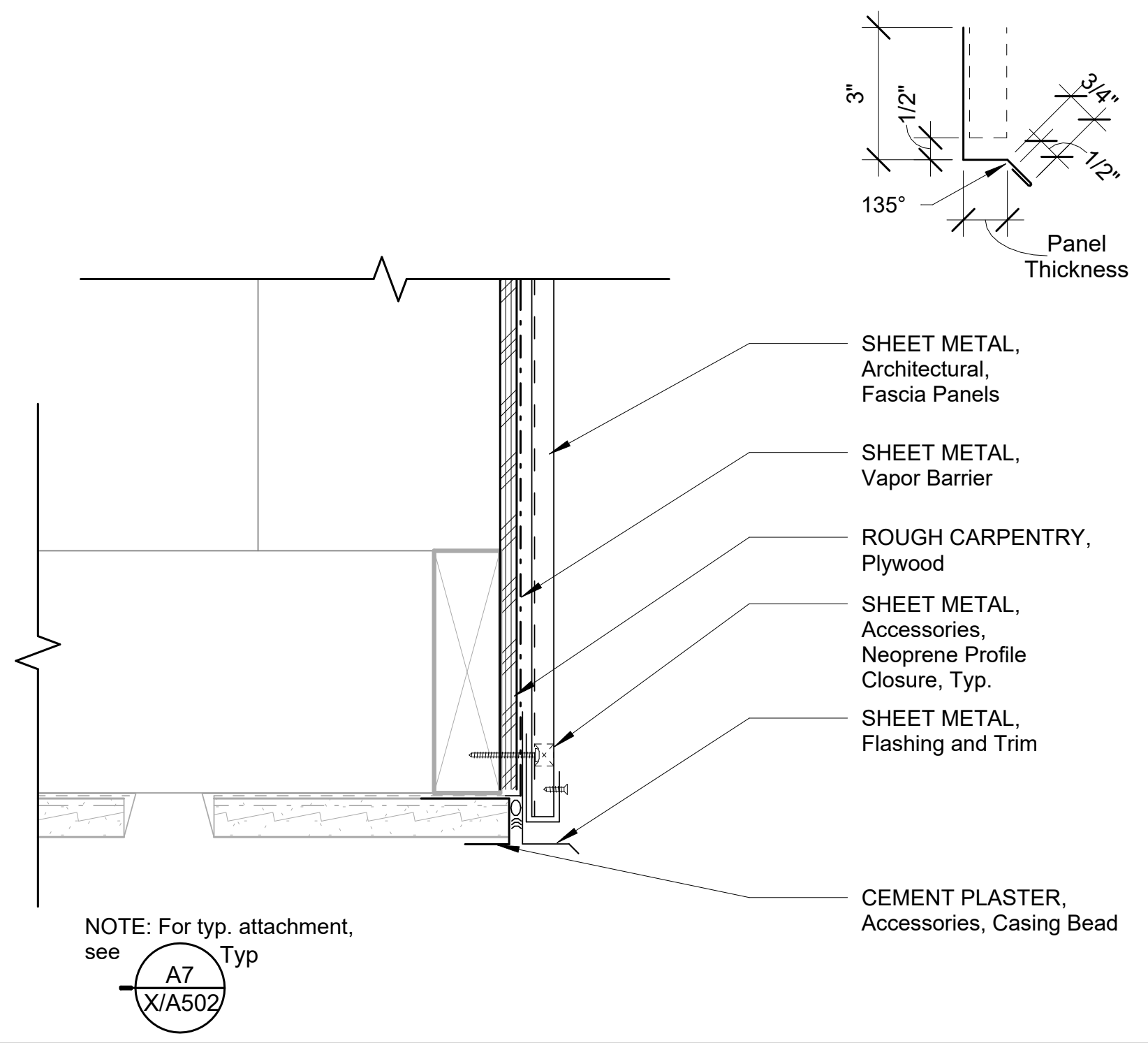
NOTES:
1. Water Barrier to be continuous behind Accessories
2. All splices in Accessories shall be sealed

Type "B" Control Joints shall be installed as indicated on the drawings where the panel size and proportions has been achieved by Type "A" Control Joints. Type "B" Control Joints may be wire tied over Lath, backing is optional


SHEET METAL, Architectural, Fascia Panels, 20 Ga.
SHEET METAL, Fasteners, #14 x 2-1/2" Self-Drilling Pan Head Wood Screws at 16" o.c. into each stud, 1-1/2" min. embed., top and bottom
SHEET METAL, Accessories, Neoprene Profile Closure, Typ.
SHEET METAL, Accessories, Butyl Tape, Typ.
SHEET METAL, Vapor Barrier
ROUGH CARPENTRY, Plywood
Existing 2x Wood Framing
1/2"
1/2"
2 '-0" Typ.
Panel Width
SECTION VIEW

A7 — SHEET METAL, Architectural, Fascia Panels, Typical Wall Attachment

3" = 1'-0"


3"
1/2"
3/4"
1/2"
135°
Panel Thickness
SHEET METAL, Architectural, Fascia Panels
SHEET METAL, Vapor Barrier
ROUGH CARPENTRY, Plywood
SHEET METAL, Accessories, Neoprene Profile Closure, Typ.
SHEET METAL, Flashing and Trim
CEMENT PLASTER, Accessories, Casing Bead

NOTE: For typ. attachment, see A7 X/A502 Typ

A11 — SHEET METAL, Architectural, Fascia Panels at Soffit

3" = 1'-0"

A14 — CEMENT PLASTER , ACCESORIES

3" = 1'-0"

Community Day School Modernization
Merced City School District
Merced, CA, 95340
Project

TYPICAL INFORMATION
EXTERIOR DETAILS - WALL DETAILS
Drawing

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Architect

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2/6/2026 11:27:53 AM
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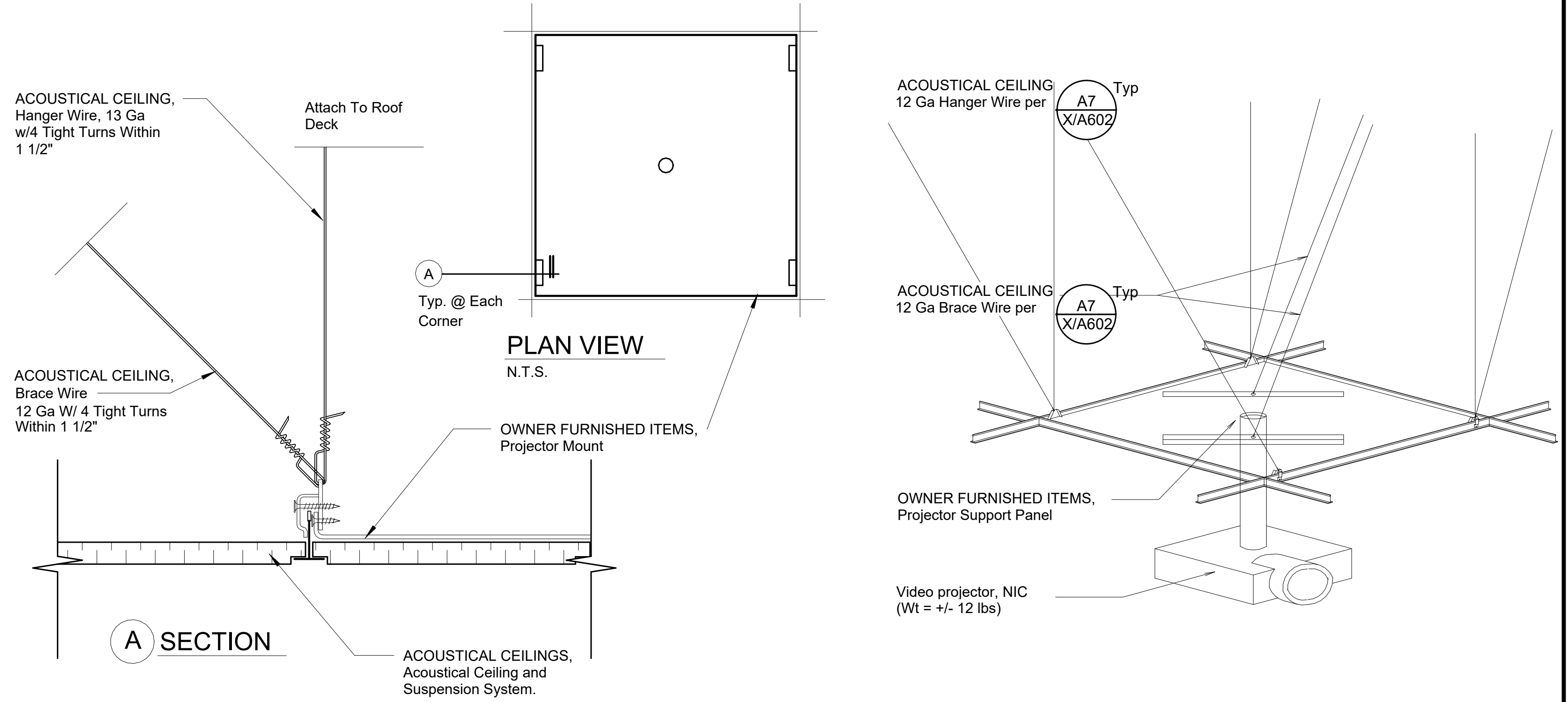
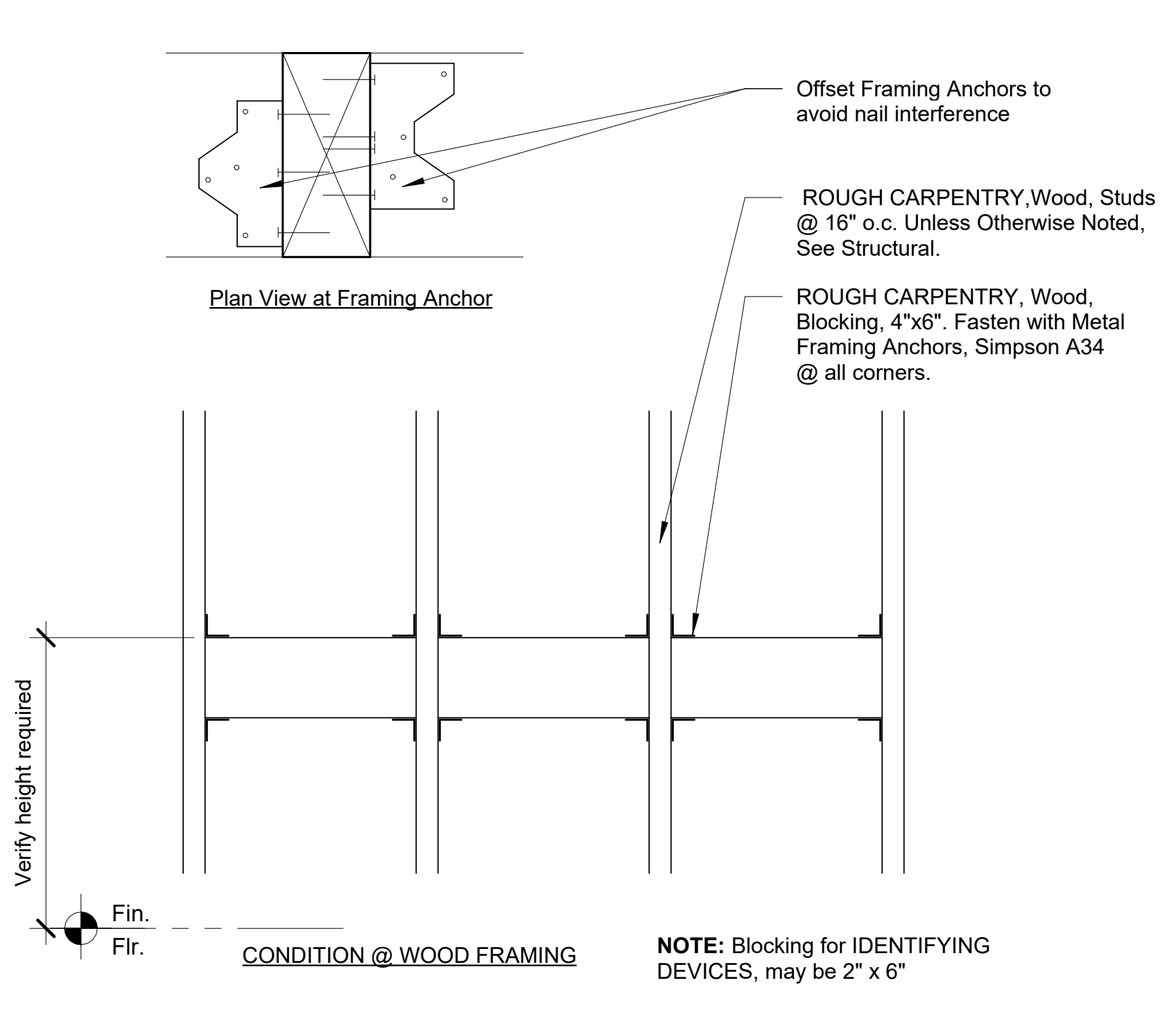

ACOUSTICAL CEILING, Hanger Wire, 13 Ga w/4 Tight Turns Within 1 1/2"
Attach To Roof Deck
A
Typ. @ Each Corner
PLAN VIEW
N.T.S.
ACOUSTICAL CEILING, Brace Wire 12 Ga W/ 4 Tight Turns Within 1 1/2"
OWNER FURNISHED ITEMS, Projector Mount
A SECTION
ACOUSTICAL CEILINGS, Acoustical Ceiling and Suspension System.
ACOUSTICAL CEILING 12 Ga Hanger Wire per A7 X/A602 Typ
ACOUSTICAL CEILING 12 Ga Brace Wire per A7 X/A602 Typ
OWNER FURNISHED ITEMS, Projector Support Panel
Video projector, NIC (Wt = +/- 12 lbs)

N1 — 3" = 1'-0"

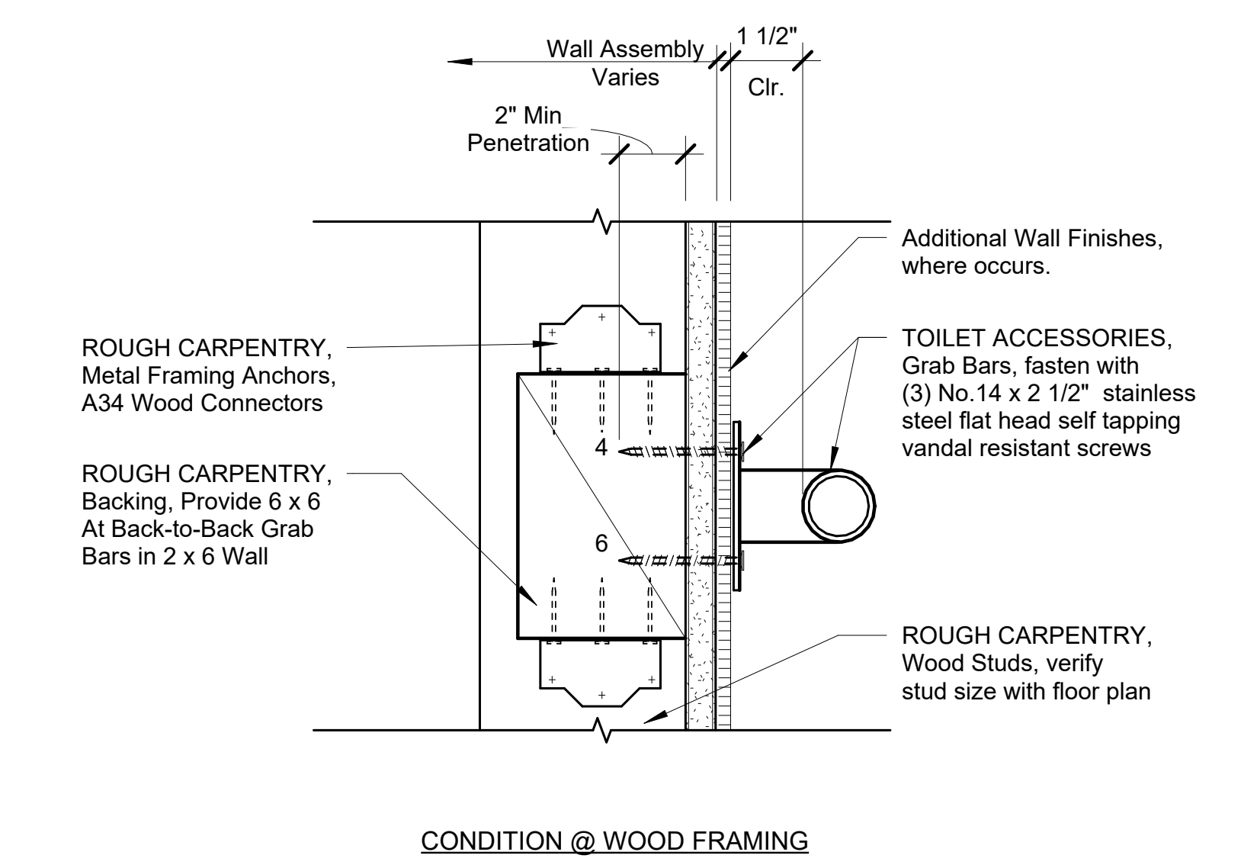
OWNER FURNISHED ITEMS, Projector Support


Plan View at Framing Anchor
Offset Framing Anchors to avoid nail interference
ROUGH CARPENTRY,Wood, Studs @ 16" o.c. Unless Otherwise Noted, See Structural.
ROUGH CARPENTRY, Wood, Blocking, 4"x6". Fasten with Metal Framing Anchors, Simpson A34 @ all corners.
Verify height required
Fin. Flr.
CONDITION @ WOOD FRAMING

NOTE: Blocking for IDENTIFYING DEVICES, may be 2" x 6"

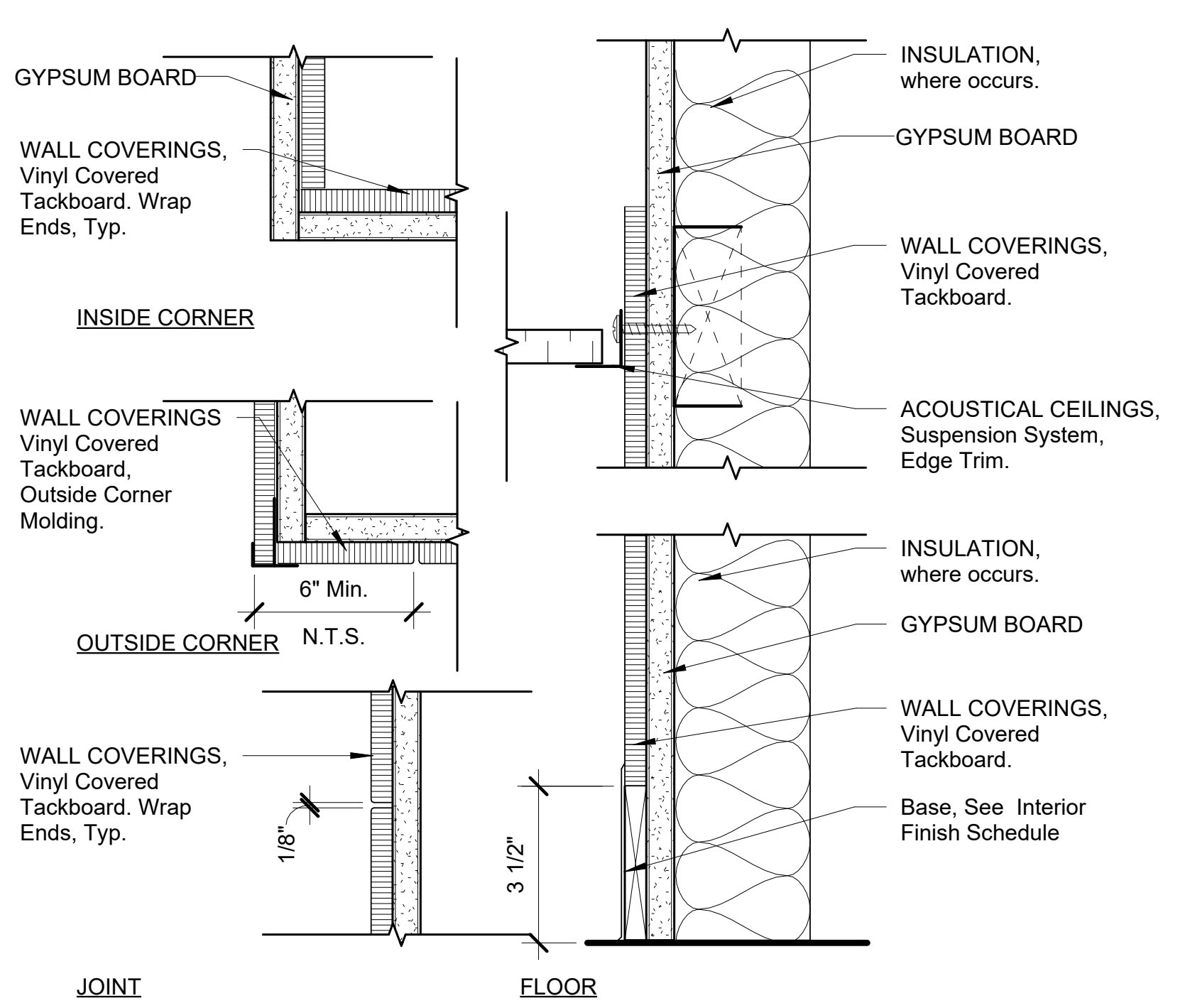
N7 — 1" = 1'-0"

ROUGH CARPENTRY, Backing Detail


Wall Assembly Varies
1 1/2" Clr.
2" Min Penetration
ROUGH CARPENTRY, Metal Framing Anchors, A34 Wood Connectors
ROUGH CARPENTRY, Backing, Provide 6 x 6 At Back-to-Back Grab Bars in 2 x 6 Wall
4
6
Additional Wall Finishes, where occurs.
TOILET ACCESSORIES, Grab Bars, fasten with (3) No.14 x 2 1/2" stainless steel flat head self tapping vandal resistant screws
ROUGH CARPENTRY, Wood Studs, verify stud size with floor plan
CONDITION @ WOOD FRAMING

N11 — 3" = 1'-0"

TOILET ACCESSORIES, Grab Bars


GYPSUM BOARD
WALL COVERINGS, Vinyl Covered Tackboard. Wrap Ends, Typ.
INSIDE CORNER
WALL COVERINGS Vinyl Covered Tackboard, Outside Corner Molding.
6" Min.
OUTSIDE CORNER
N.T.S.
WALL COVERINGS, Vinyl Covered Tackboard. Wrap Ends, Typ.
1/8"
JOINT
INSULATION, where occurs.
GYPSUM BOARD
WALL COVERINGS, Vinyl Covered Tackboard.
ACOUSTICAL CEILINGS, Suspension System, Edge Trim.
INSULATION, where occurs.
GYPSUM BOARD
WALL COVERINGS, Vinyl Covered Tackboard.
Base, See Interior Finish Schedule
3 1/2"
FLOOR

N14 — 3" = 1'-0"

WALL COVERINGS, Vinyl Covered Tackboard

DSA File No.:
24-35

DSA Application No.:
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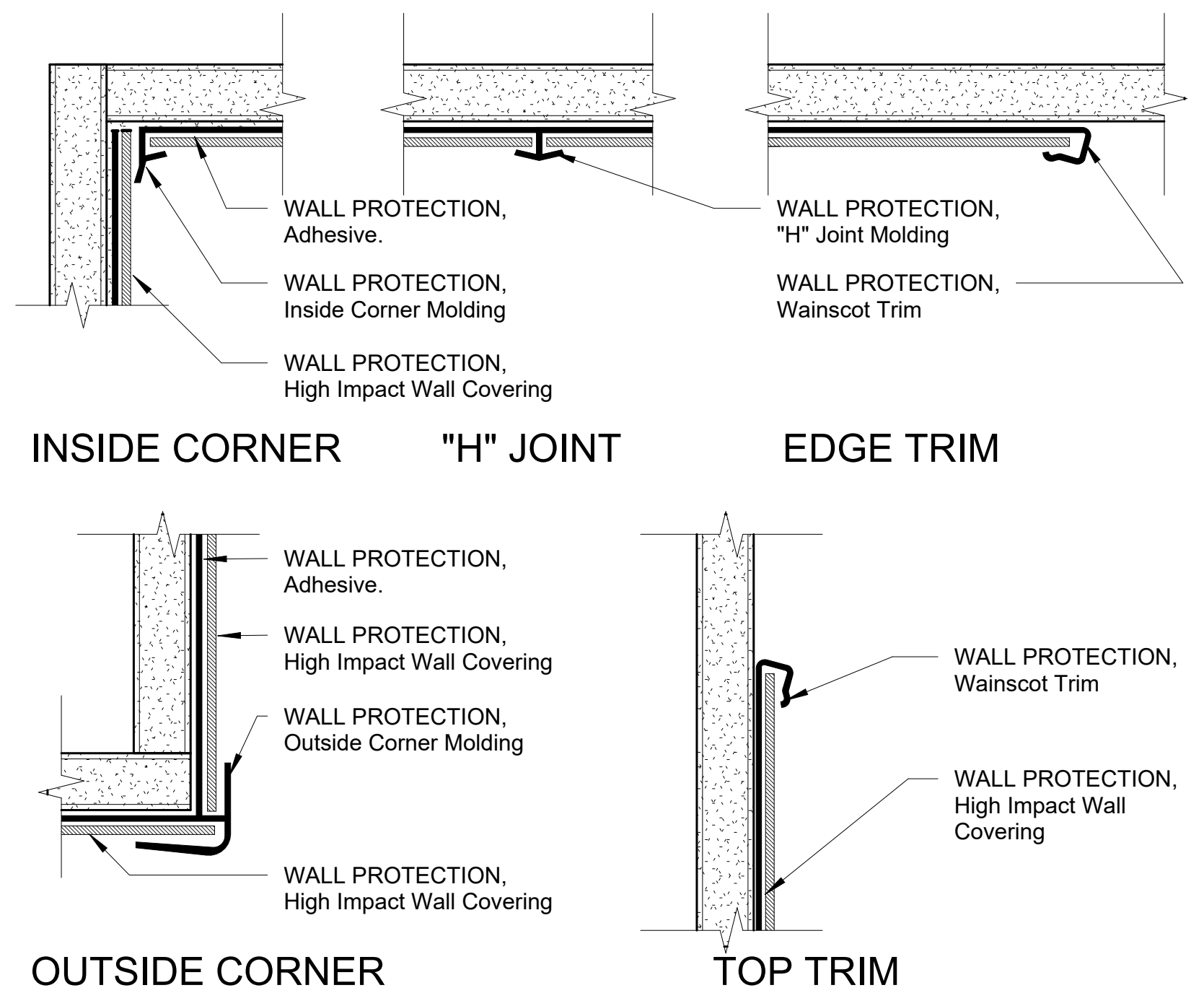
Agency Approval

NOTES

1. GYPSUM BOARD, Metal Accessories, Refer to Detail E7 X/A601 Typ
2. GYPSUM BOARD, Control Joints, Refer to Detail E4 X/A601 Typ
3. ACOUSTICAL CEILINGS, For typical suspended ceiling support and bracing, Refer to A11 X/A602 Typ A7 X/A602 Typ

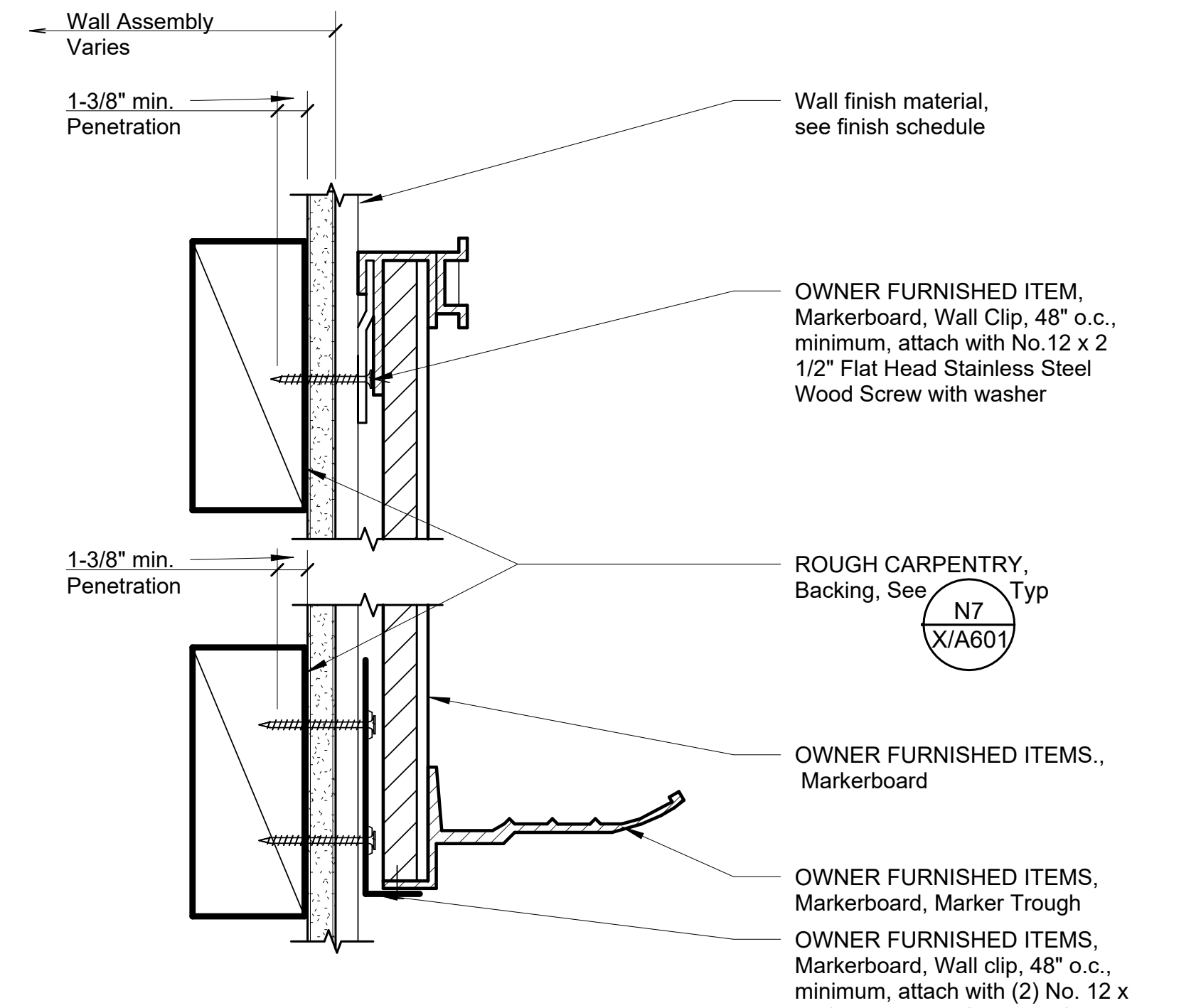
N18 — No Scale

Interior Detail Notes


WALL PROTECTION, Adhesive.
WALL PROTECTION, Inside Corner Molding
WALL PROTECTION, High Impact Wall Covering
WALL PROTECTION, "H" Joint Molding
WALL PROTECTION, Wainscot Trim
INSIDE CORNER
"H" JOINT
EDGE TRIM
WALL PROTECTION, Adhesive.
WALL PROTECTION, High Impact Wall Covering
WALL PROTECTION, Outside Corner Molding
WALL PROTECTION, High Impact Wall Covering
WALL PROTECTION, Wainscot Trim
WALL PROTECTION, High Impact Wall Covering
OUTSIDE CORNER
TOP TRIM

J1 — 6" = 1'-0"

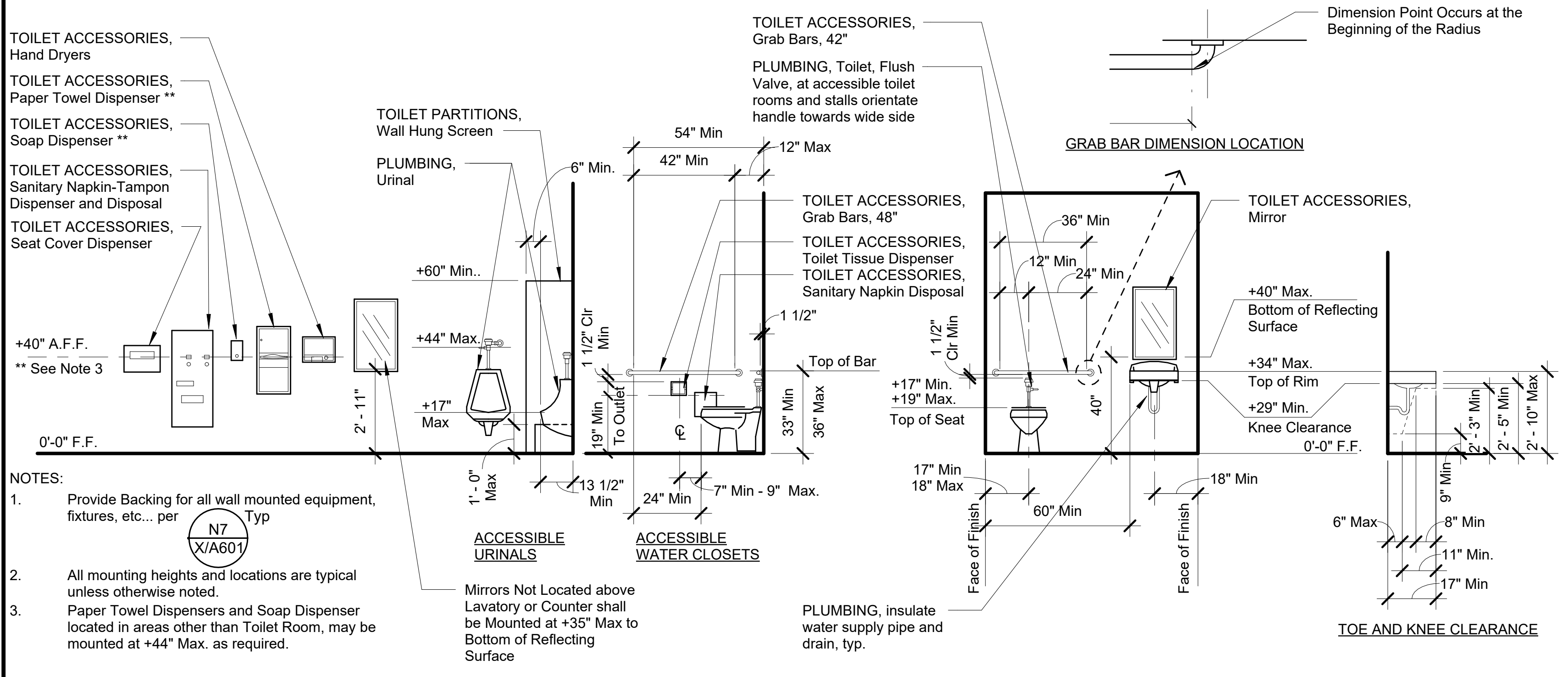
WALL PROTECTION, High Impact Wall Covering


Wall Assembly Varies
1-3/8" min. Penetration
Wall finish material, see finish schedule
OWNER FURNISHED ITEM, Markerboard, Wall Clip, 48" o.c., minimum, attach with No.12 x 2 1/2" Flat Head Stainless Steel Wood Screw with washer
1-3/8" min. Penetration
ROUGH CARPENTRY, Backing, See N7 X/A601 Typ
OWNER FURNISHED ITEMS., Markerboard
OWNER FURNISHED ITEMS, Markerboard, Marker Trough
OWNER FURNISHED ITEMS, Markerboard, Wall clip, 48" o.c., minimum, attach with (2) No. 12 x 2 1/2" Flat Head Stainless Steel Wood Screw with washer

NOTE: Maximum Installed Weight: 86 lbs.

J7 — 3" = 1'-0"

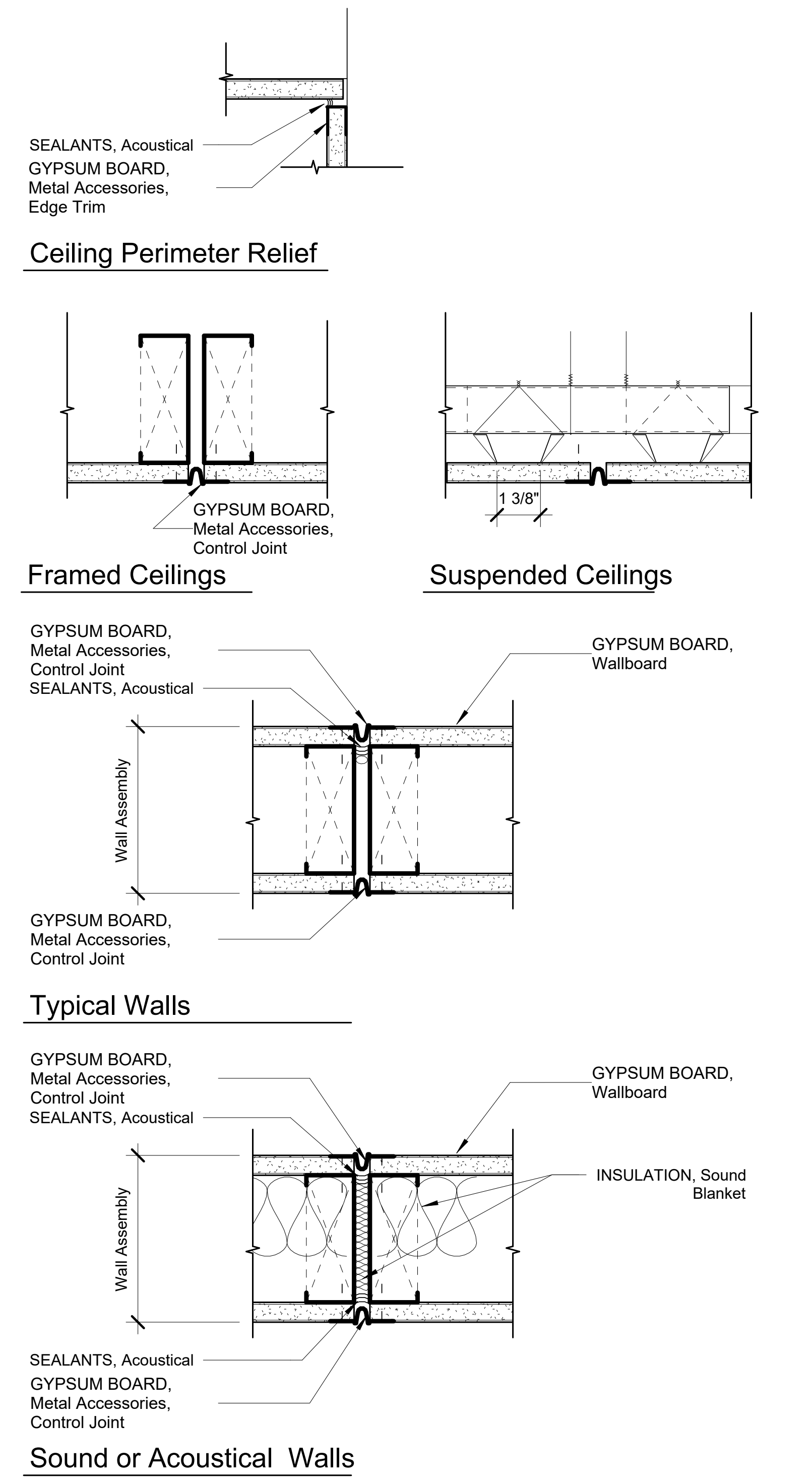
OWNER FURNISHED ITEMS, Markerboard


TOILET ACCESSORIES, Hand Dryers
TOILET ACCESSORIES, Paper Towel Dispenser **
TOILET ACCESSORIES, Soap Dispenser **
TOILET ACCESSORIES, Sanitary Napkin-Tampon Dispenser and Disposal
TOILET ACCESSORIES, Seat Cover Dispenser
+40" A.F.F.
** See Note 3
0'-0" F.F.
2' - 11"
+60" Min..
+44" Max.
+17" Max
TOILET PARTITIONS, Wall Hung Screen
PLUMBING, Urinal
6" Min.
1' - 0" Max
13 1/2" Min
ACCESSIBLE URINALS
Mirrors Not Located above Lavatory or Counter shall be Mounted at +35" Max to Bottom of Reflecting Surface
1 1/2" Clr Min
19" Min To Outlet
54" Min
42" Min
12" Max
TOILET ACCESSORIES, Grab Bars, 48"
TOILET ACCESSORIES, Toilet Tissue Dispenser
TOILET ACCESSORIES, Sanitary Napkin Disposal
1 1/2"
Top of Bar
33" Min
36" Max
24" Min
7" Min - 9" Max.
ACCESSIBLE WATER CLOSETS
TOILET ACCESSORIES, Grab Bars, 42"
PLUMBING, Toilet, Flush Valve, at accessible toilet rooms and stalls orientate handle towards wide side
36" Min
12" Min
24" Min
1 1/2" Clr Min
+17" Min. +19" Max. Top of Seat
40"
17" Min 18" Max
60" Min
18" Min
Face of Finish
Face of Finish
PLUMBING, insulate water supply pipe and drain, typ.
TOILET ACCESSORIES, Mirror
+40" Max. Bottom of Reflecting Surface
+34" Max. Top of Rim
+29" Min. Knee Clearance
0'-0" F.F.
Dimension Point Occurs at the Beginning of the Radius
GRAB BAR DIMENSION LOCATION
2' - 3" Min
2' - 5" Min
2' - 10" Max
9" Min
6" Max
8" Min
11" Min.
17" Min
TOE AND KNEE CLEARANCE

NOTES:
1. Provide Backing for all wall mounted equipment, fixtures, etc... per N7 X/A601 Typ
2. All mounting heights and locations are typical unless otherwise noted.
3. Paper Towel Dispensers and Soap Dispenser located in areas other than Toilet Room, may be mounted at +44" Max. as required.

J11 — 1/4" = 1'-0"

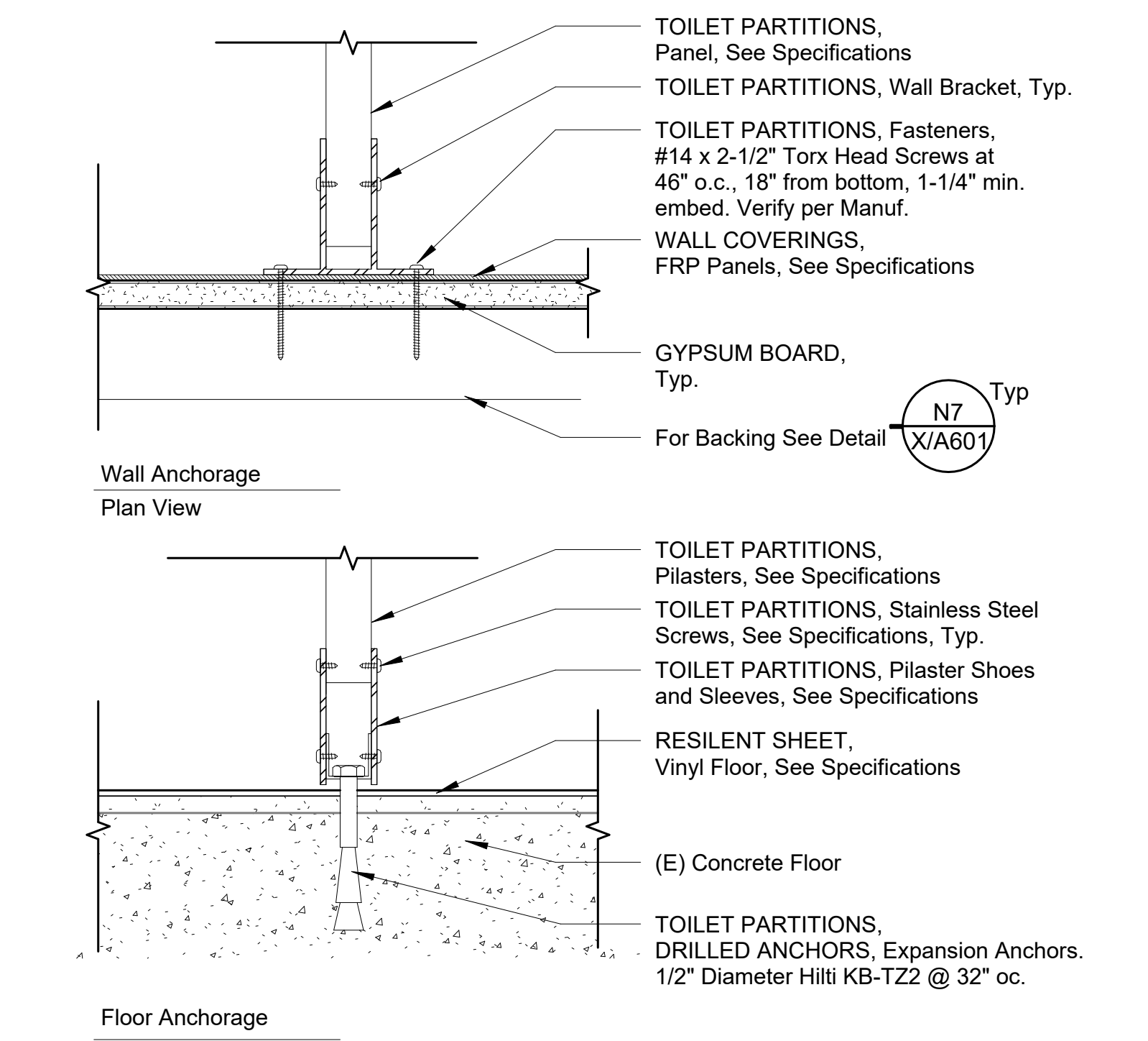
TOILET ACCESSORIES AND PLUMBING FIXTURES,


SEALANTS, Acoustical
GYPSUM BOARD, Metal Accessories, Edge Trim
Ceiling Perimeter Relief
GYPSUM BOARD, Metal Accessories, Control Joint
Framed Ceilings
1 3/8"
Suspended Ceilings
GYPSUM BOARD, Metal Accessories, Control Joint
SEALANTS, Acoustical
GYPSUM BOARD, Wallboard
Wall Assembly
GYPSUM BOARD, Metal Accessories, Control Joint
Typical Walls
GYPSUM BOARD, Metal Accessories, Control Joint
SEALANTS, Acoustical
GYPSUM BOARD, Wallboard
INSULATION, Sound Blanket
Wall Assembly
SEALANTS, Acoustical
GYPSUM BOARD, Metal Accessories, Control Joint
Sound or Acoustical Walls

NOTE:
1. Unless Otherwise indicated Control Joint shall be provided at continuous Interior Partitions with uninterrupted planes that exceed 30'-0" in length or 900 sf in area.
2. Unless Otherwise indicated Control Joint shall be provided at continuous Ceilings with uninterrupted planes that exceed 50' in length or 2500 sf in area with perimeter relief, or Ceilings exceeding 30'-0" in length or 900 sf in area without perimeter relief.

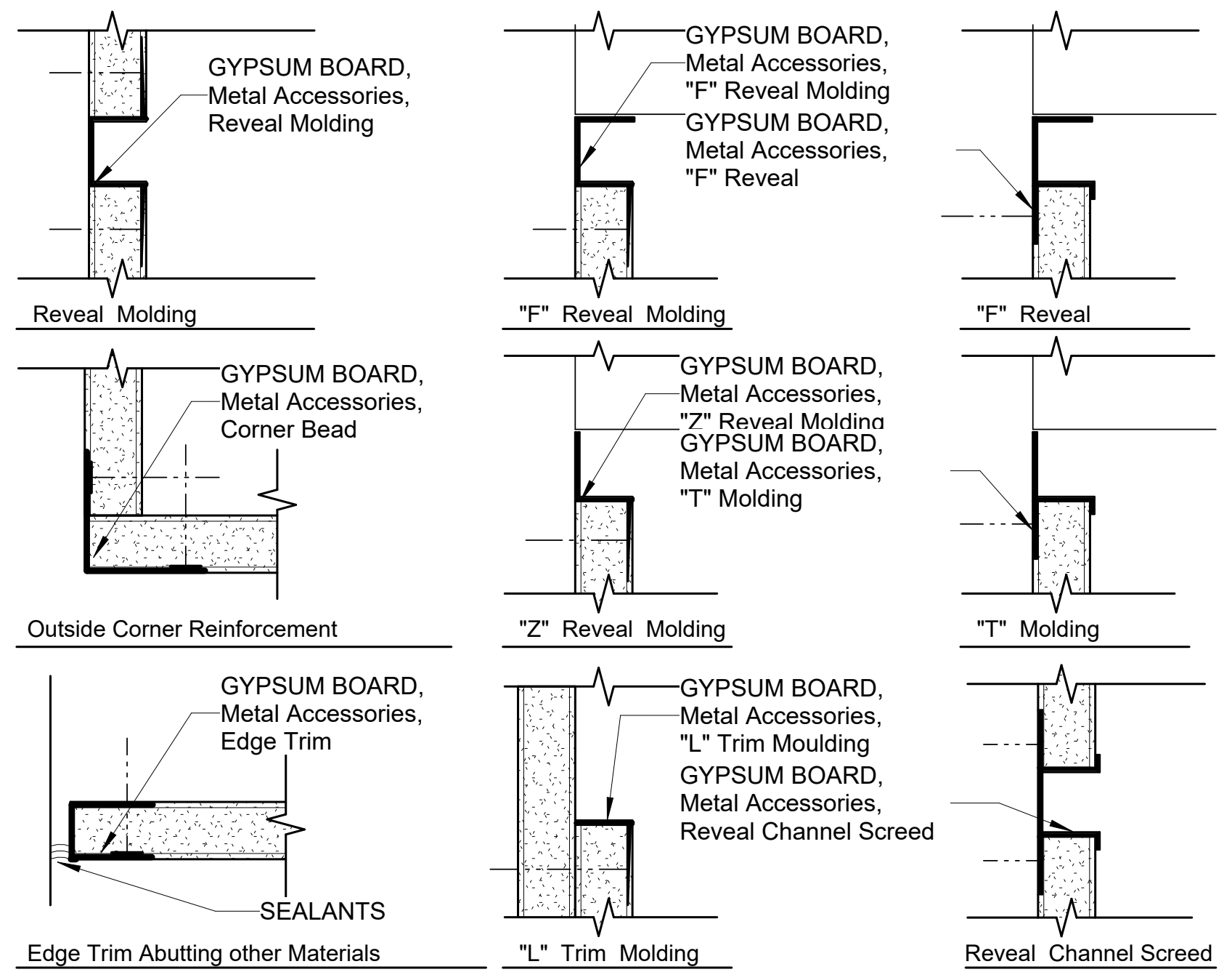
E4 — 3" = 1'-0"

GYPSUM BOARD, ACCESSORIES, Control Joints, Non-Rated Wall and Ceilings


TOILET PARTITIONS, Panel, See Specifications
TOILET PARTITIONS, Wall Bracket, Typ.
TOILET PARTITIONS, Fasteners, #14 x 2-1/2" Torx Head Screws at 46" o.c., 18" from bottom, 1-1/4" min. embed. Verify per Manuf.
WALL COVERINGS, FRP Panels, See Specifications
GYPSUM BOARD, Typ.
For Backing See Detail N7 X/A601 Typ
Wall Anchorage
Plan View
TOILET PARTITIONS, Pilasters, See Specifications
TOILET PARTITIONS, Stainless Steel Screws, See Specifications, Typ.
TOILET PARTITIONS, Pilaster Shoes and Sleeves, See Specifications
RESILENT SHEET, Vinyl Floor, See Specifications
(E) Concrete Floor
TOILET PARTITIONS, DRILLED ANCHORS, Expansion Anchors. 1/2" Diameter Hilti KB-TZ2 @ 32" oc.
Floor Anchorage

E1 — 3" = 1'-0"

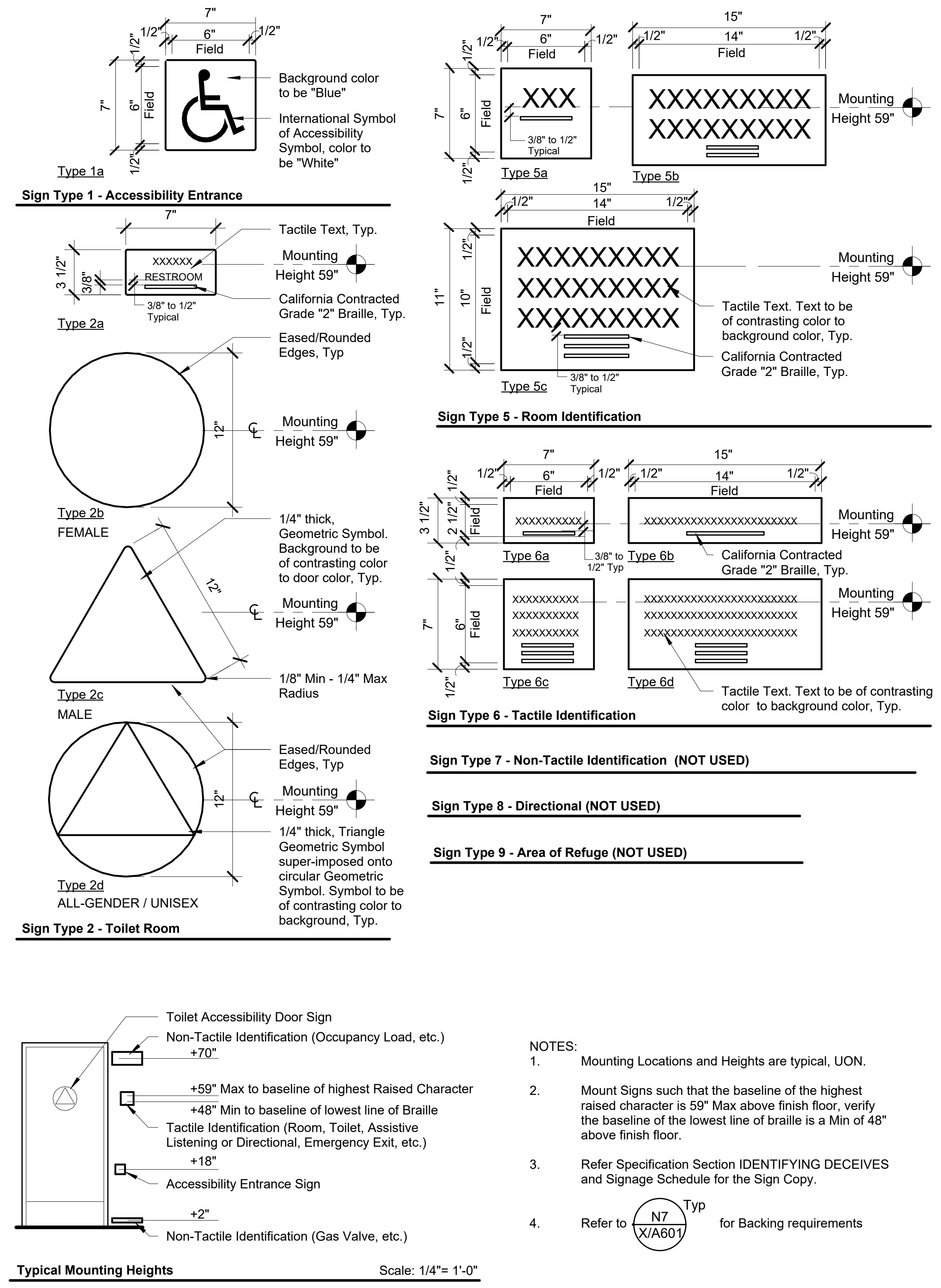
TOILET PARTITIONS, Anchorage


GYPSUM BOARD, Metal Accessories, Reveal Molding
Reveal Molding
GYPSUM BOARD, Metal Accessories, "F" Reveal Molding
GYPSUM BOARD, Metal Accessories, "F" Reveal
"F" Reveal Molding
"F" Reveal
GYPSUM BOARD, Metal Accessories, Corner Bead
Outside Corner Reinforcement
GYPSUM BOARD, Metal Accessories, "Z" Reveal Molding
GYPSUM BOARD, Metal Accessories, "T" Molding
"Z" Reveal Molding
"T" Molding
GYPSUM BOARD, Metal Accessories, Edge Trim
SEALANTS
Edge Trim Abutting other Materials
GYPSUM BOARD, Metal Accessories, "L" Trim Moulding
GYPSUM BOARD, Metal Accessories, Reveal Channel Screed
"L" Trim Molding
Reveal Channel Screed

NOTE:
1. Details Shall apply at Similar GYPSUM BOARD Accessories and Trim not specifically shown.
2. Reveals and Moldings shall be provided with Factory Fabricated Intersections, Inside Corners, Outside Corners and End Caps

E7 — 6" = 1'-0"

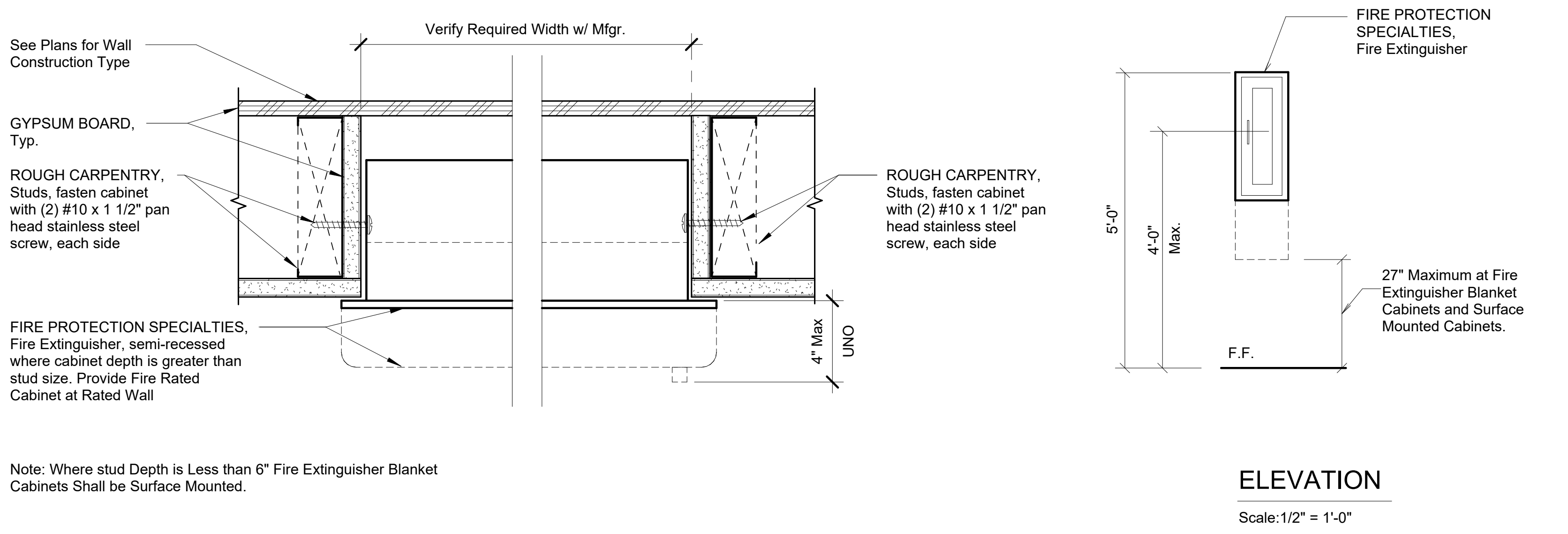
GYPSUM BOARD, Metal Accessories


7"
1/2"
6" Field
Background color to be "Blue"
International Symbol of Accessibility Symbol, color to be "White"
Type 1a
Sign Type 1 - Accessibility Entrance
XXXXXX
RESTROOM
Tactile Text, Typ.
Mounting Height 59"
California Contracted Grade "2" Braille, Typ.
3 1/2"
3/8"
3/8" to 1/2" Typical
Type 2a
Eased/Rounded Edges, Typ
12"
Type 2b
FEMALE
1/4" thick, Geometric Symbol. Background to be of contrasting color to door color, Typ.
Type 2c
MALE
1/8" Min - 1/4" Max Radius
Type 2d
ALL-GENDER / UNISEX
1/4" thick, Triangle Geometric Symbol super-imposed onto circular Geometric Symbol. Symbol to be of contrasting color to background, Typ.
Sign Type 2 - Toilet Room
XXX
XXXXXXXXX
Type 5a
Type 5b
15"
14" Field
11"
10"
Tactile Text. Text to be of contrasting color to background color, Typ.
California Contracted Grade "2" Braille, Typ.
Type 5c
Sign Type 5 - Room Identification
Type 6a
Type 6b
Type 6c
Type 6d
3/8" to 1/2" Typ
2 1/2"
Tactile Text. Text to be of contrasting color to background color, Typ.
Sign Type 6 - Tactile Identification
Sign Type 7 - Non-Tactile Identification (NOT USED)
Sign Type 8 - Directional (NOT USED)
Sign Type 9 - Area of Refuge (NOT USED)
Toilet Accessibility Door Sign
Non-Tactile Identification (Occupancy Load, etc.)
+70"
+59" Max to baseline of highest Raised Character
+48" Min to baseline of lowest line of Braille
Tactile Identification (Room, Toilet, Assistive Listening or Directional, Emergency Exit, etc.)
+18"
Accessibility Entrance Sign
+2"
Non-Tactile Identification (Gas Valve, etc.)
Typical Mounting Heights
Scale: 1/4"= 1'-0"

NOTES:
1. Mounting Locations and Heights are typical, UON.
2. Mount Signs such that the baseline of the highest raised character is 59" Max above finish floor, verify the baseline of the lowest line of braille is a Min of 48" above finish floor.
3. Refer Specification Section IDENTIFYING DECEIVES and Signage Schedule for the Sign Copy.
4. Refer to N7 X/A601 Typ for Backing requirements

A11 — 1 1/2" = 1'-0"

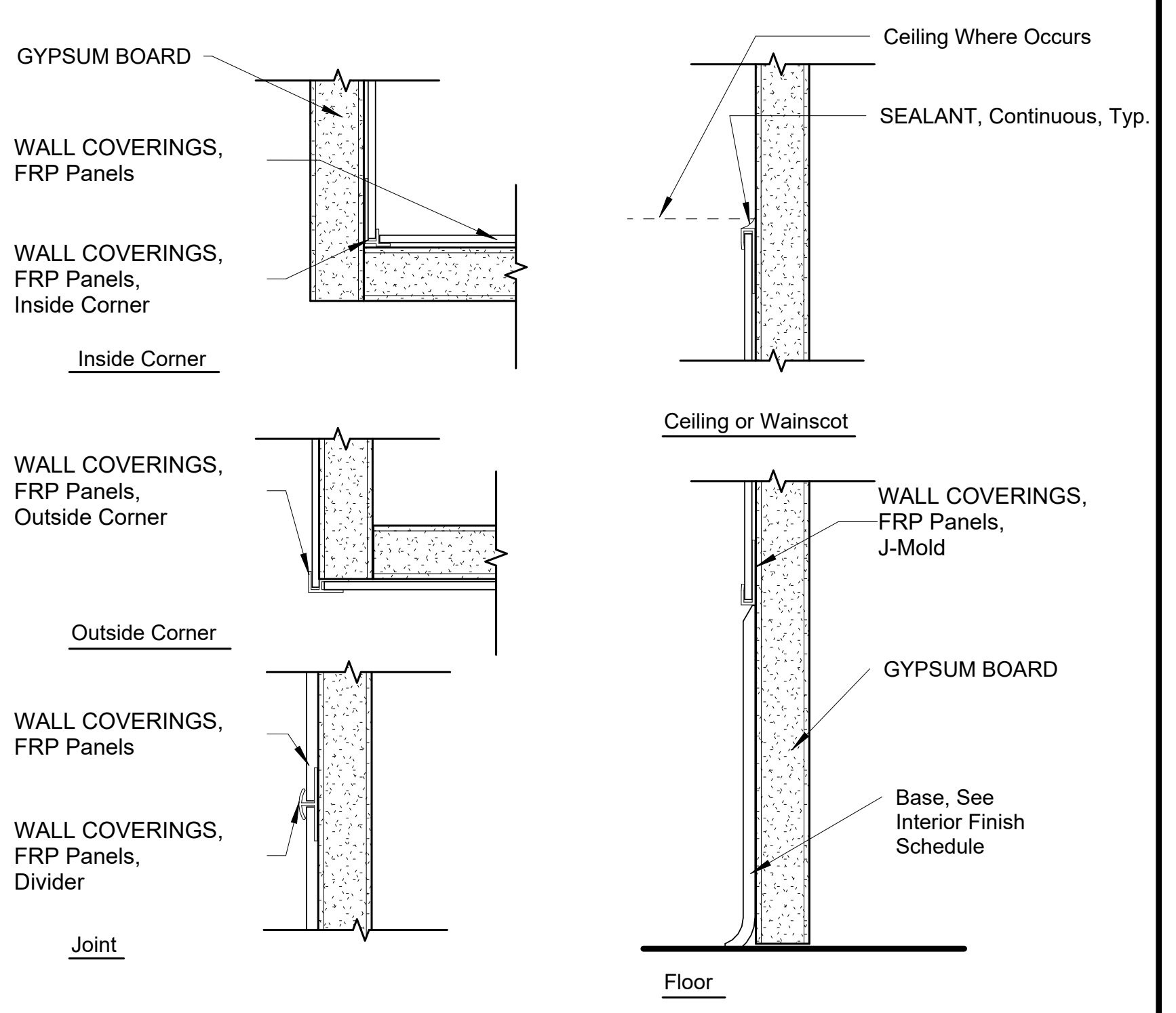
IDENTIFYING DEVICES, Signage Locations and Dimensions


Verify Required Width w/ Mfgr.
See Plans for Wall Construction Type
GYPSUM BOARD, Typ.
ROUGH CARPENTRY, Studs, fasten cabinet with (2) #10 x 1 1/2" pan head stainless steel screw, each side
ROUGH CARPENTRY, Studs, fasten cabinet with (2) #10 x 1 1/2" pan head stainless steel screw, each side
FIRE PROTECTION SPECIALTIES, Fire Extinguisher, semi-recessed where cabinet depth is greater than stud size. Provide Fire Rated Cabinet at Rated Wall
4" Max
UNO
FIRE PROTECTION SPECIALTIES, Fire Extinguisher
5'-0"
4'-0" Max.
F.F.
27" Maximum at Fire Extinguisher Blanket Cabinets and Surface Mounted Cabinets.
ELEVATION
Scale:1/2" = 1'-0"

Note: Where stud Depth is Less than 6" Fire Extinguisher Blanket Cabinets Shall be Surface Mounted.

A1 — 3" = 1'-0"

FIRE PROTECTION SPECIALITIES, Cabinet and Extinguisher


GYPSUM BOARD
WALL COVERINGS, FRP Panels
WALL COVERINGS, FRP Panels, Inside Corner
Inside Corner
WALL COVERINGS, FRP Panels, Outside Corner
Outside Corner
WALL COVERINGS, FRP Panels
WALL COVERINGS, FRP Panels, Divider
Joint
Ceiling Where Occurs
SEALANT, Continuous, Typ.
Ceiling or Wainscot
WALL COVERINGS, FRP Panels, J-Mold
GYPSUM BOARD
Base, See Interior Finish Schedule
Floor

A7 — 6" = 1'-0"

WALL COVERINGS, FRP Panels, Aluminum Trim

Community Day School Modernization
Merced City School District
Merced, CA, 95340
Project

TYPICAL INFORMATION
INTERIOR DETAILS
Drawing

darden architects
ARCHITECTURE
PLANNING
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www.dardenarchitects.com
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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

	Designed By: -	Copyright 2026 Darden Architects
Scale: As indicated	Drawn By: -	*X/A601*
Project Number: 2533	Checked By: -	
Date: 2/9/2026	Reviewed By: -	

2/6/2026 11:27:58 AM
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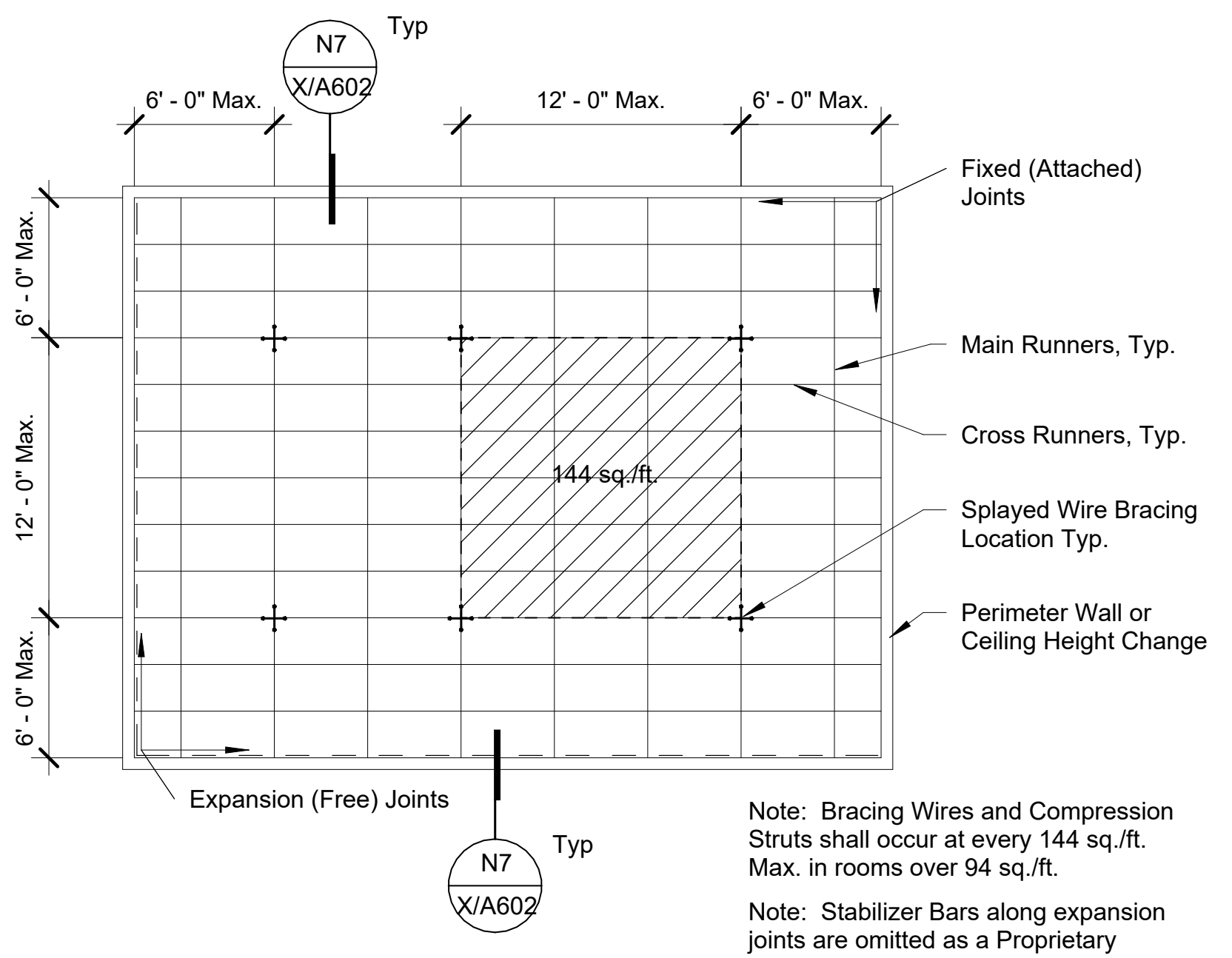
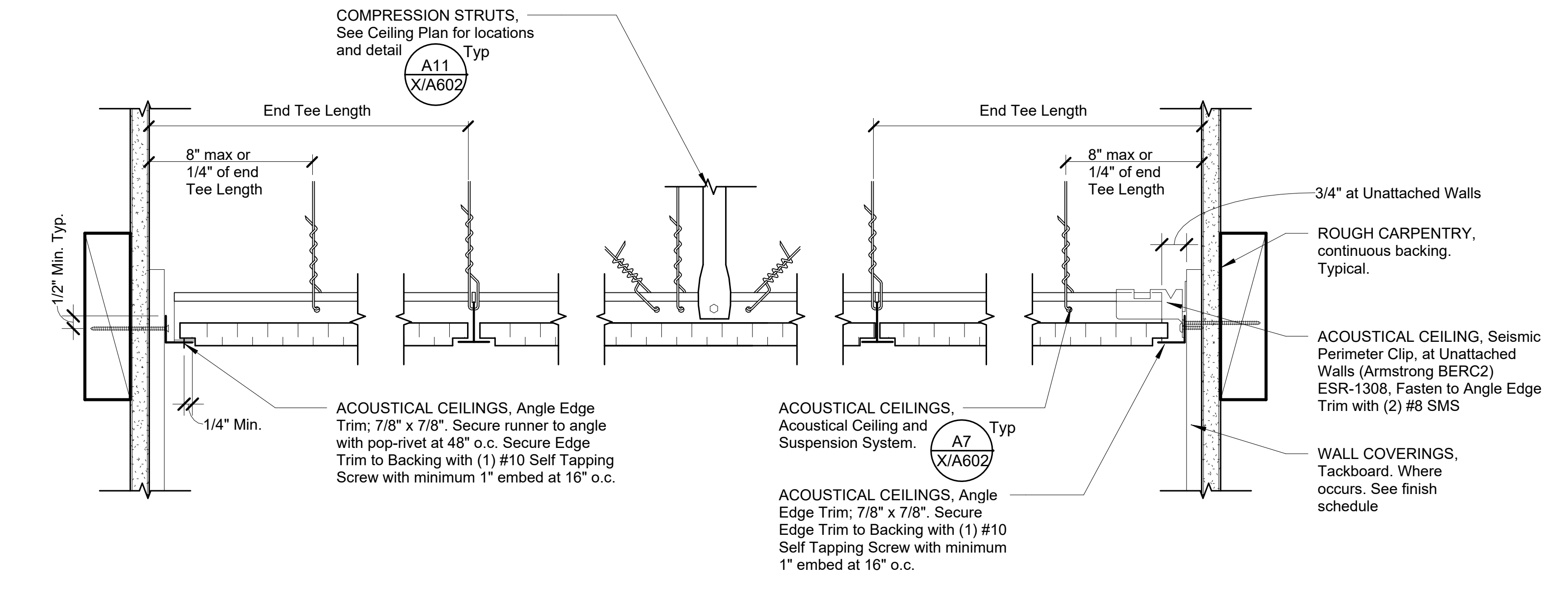


Note: Bracing Wires and Compression Struts shall occur at every 144 sq./ft. Max. in rooms over 94 sq./ft.

Note: Stabilizer Bars along expansion joints are omitted as a Proprietary Seismic Clip is specified.

N4 ACOUSTICAL CEILINGS, Typical Ceiling Plan Requirements

1/8" = 1'-0"


COMPRESSION STRUTS, See Ceiling Plan for locations and detail A11 X/A602 Typ
End Tee Length
8" max or 1/4" of end Tee Length
1/2" Min. Typ.
1/4" Min.
ACOUSTICAL CEILINGS, Angle Edge Trim; 7/8" x 7/8". Secure runner to angle with pop-rivet at 48" o.c. Secure Edge Trim to Backing with (1) #10 Self Tapping Screw with minimum 1" embed at 16" o.c.
End Tee Length
8" max or 1/4" of end Tee Length
3/4" at Unattached Walls
ROUGH CARPENTRY, continuous backing. Typical.
ACOUSTICAL CEILING, Seismic Perimeter Clip, at Unattached Walls (Armstrong BERC2) ESR-1308, Fasten to Angle Edge Trim with (2) #8 SMS
ACOUSTICAL CEILINGS, Acoustical Ceiling and Suspension System. A7 X/A602 Typ
ACOUSTICAL CEILINGS, Angle Edge Trim; 7/8" x 7/8". Secure Edge Trim to Backing with (1) #10 Self Tapping Screw with minimum 1" embed at 16" o.c.
WALL COVERINGS, Tackboard. Where occurs. See finish schedule

Detail at Fixed End

Detail at Free End

N7 ACOUSTICAL CEILINGS, Perimeter Ceiling Detail

3" = 1'-0"

DSA File No.:
24-35

DSA Application No.:
02-123716

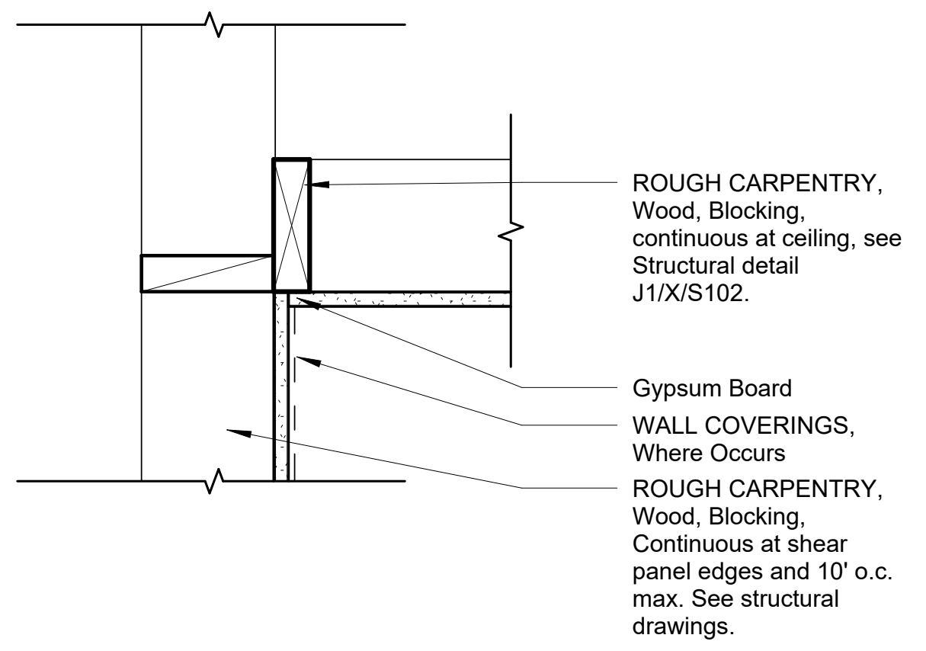
Agency Approval

NOTES

1. GYPSUM BOARD, Metal Accessories, Refer to Detail E7 X/A601 Typ
2. GYPSUM BOARD, Control Joints, Refer to Detail E4 X/A601 Typ
3. ACOUSTICAL CEILINGS, For typical suspended ceiling support and bracing, Refer to A11 X/A602 Typ A7 X/A602 Typ

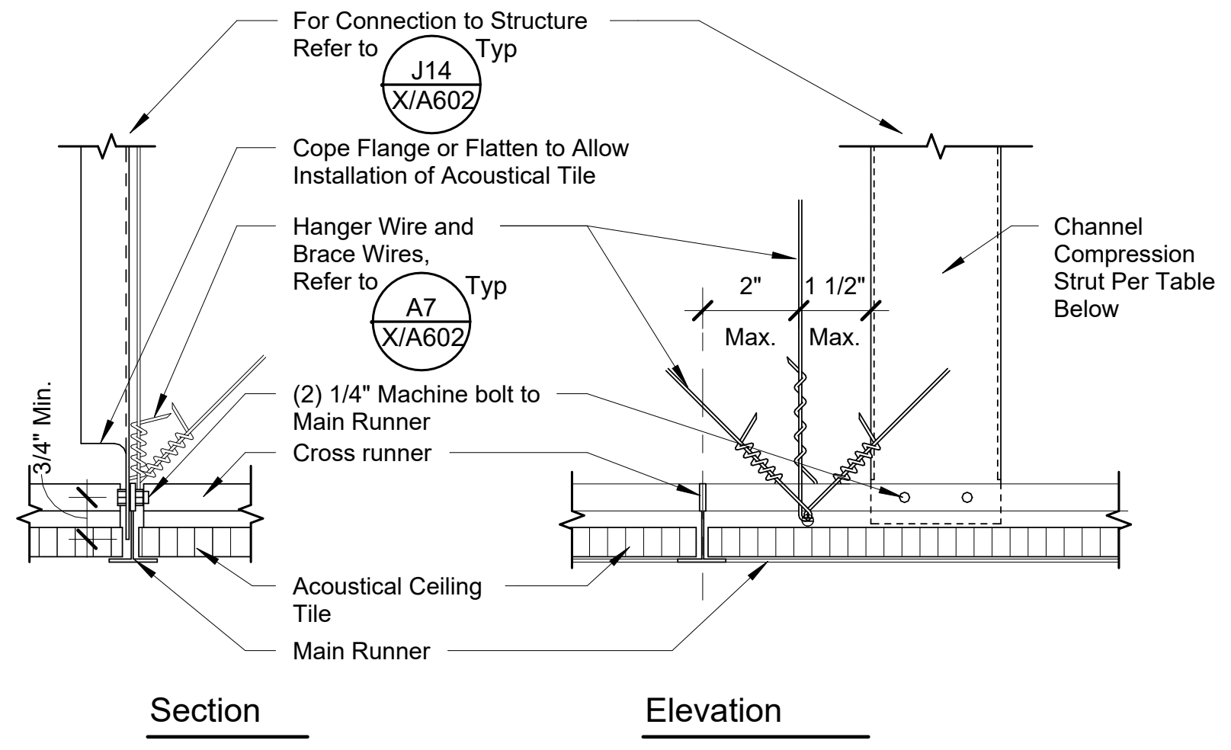
N18 Interior Detail Notes

No Scale

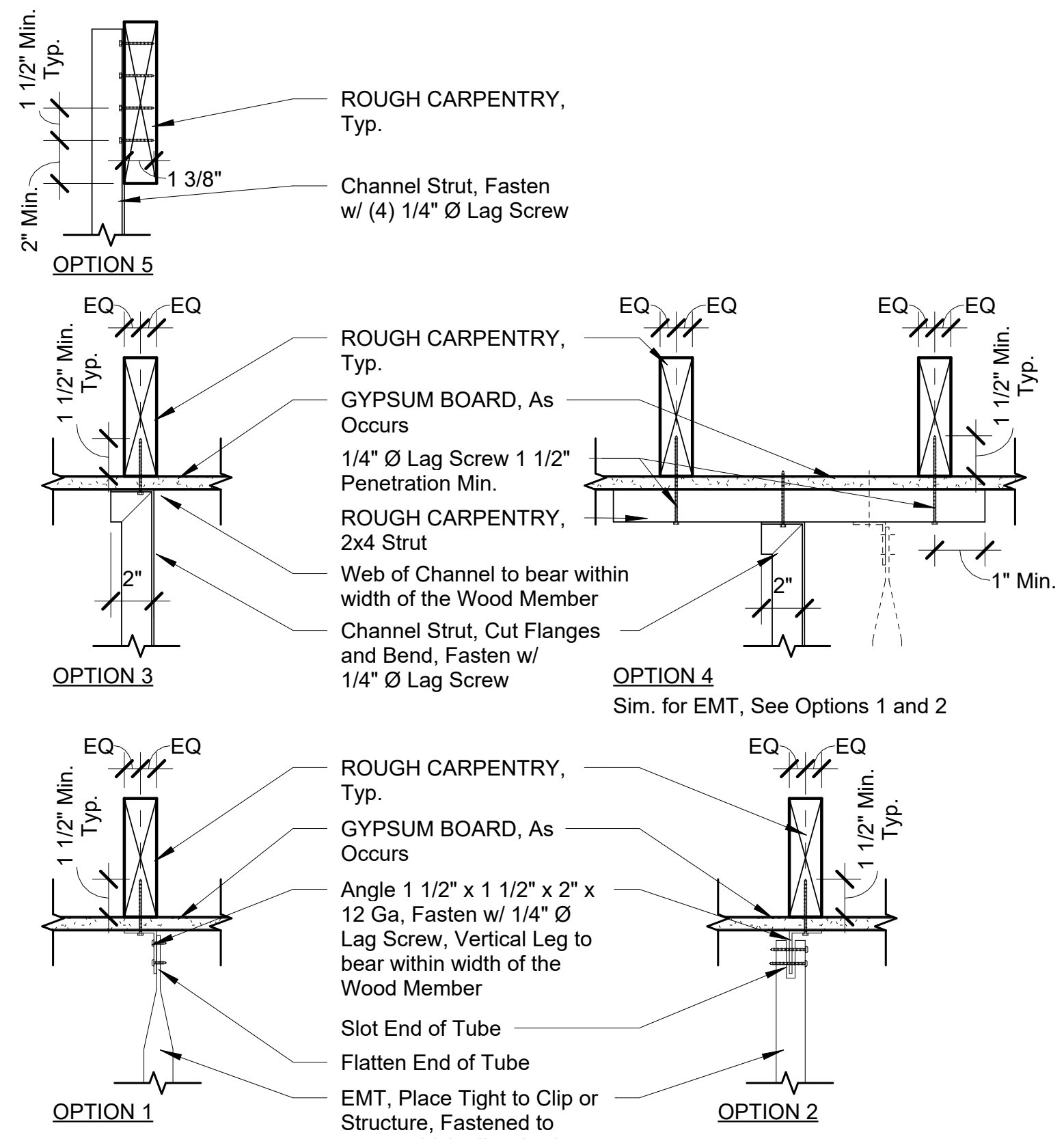

ROUGH CARPENTRY, Wood, Blocking, continuous at ceiling, see Structural detail J1/X/S102.
Gypsum Board
WALL COVERINGS, Where Occurs
ROUGH CARPENTRY, Wood, Blocking, Continuous at shear panel edges and 10' o.c. max. See structural drawings.

J7 ROUGH CARPENTRY, Gypsum Board Perimeter Detail

1 1/2" = 1'-0"


For Connection to Structure Refer to J14 X/A602 Typ
Cope Flange or Flatten to Allow Installation of Acoustical Tile
Hanger Wire and Brace Wires, Refer to A7 X/A602 Typ
3/4" Min.
(2) 1/4" Machine bolt to Main Runner
Cross runner
Acoustical Ceiling Tile
Main Runner
2" Max.
1 1/2" Max.
Channel Compression Strut Per Table Below
Section
Elevation

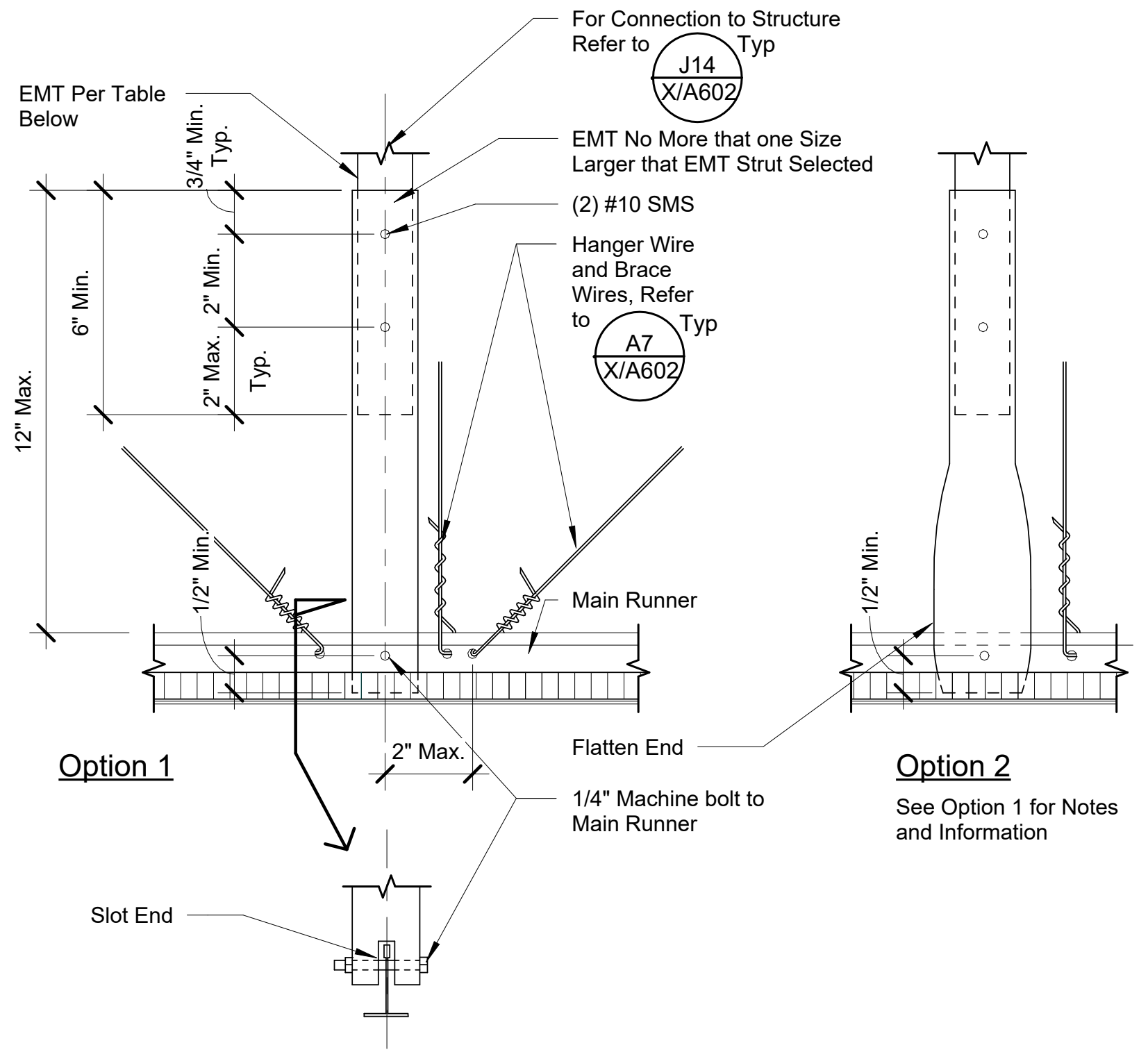
Compression Strut Channel Type


1 1/2" Min. Typ.
2" Min.
1 3/8"
ROUGH CARPENTRY, Typ.
Channel Strut, Fasten w/ (4) 1/4" Ø Lag Screw
OPTION 5
EQ
EQ
ROUGH CARPENTRY, Typ.
GYPSUM BOARD, As Occurs
1/4" Ø Lag Screw 1 1/2" Penetration Min.
ROUGH CARPENTRY, 2x4 Strut
Web of Channel to bear within width of the Wood Member
Channel Strut, Cut Flanges and Bend, Fasten w/ 1/4" Ø Lag Screw
2"
1" Min.
OPTION 3
OPTION 4
Sim. for EMT, See Options 1 and 2
ROUGH CARPENTRY, Typ.
GYPSUM BOARD, As Occurs
Angle 1 1/2" x 1 1/2" x 2" x 12 Ga, Fasten w/ 1/4" Ø Lag Screw, Vertical Leg to bear within width of the Wood Member
Slot End of Tube
Flatten End of Tube
EMT, Place Tight to Clip or Structure, Fastened to Angle w/ (2) - #10 SMS
OPTION 1
OPTION 2

Rough Carpentry

J14 ACOUSTICAL CEILINGS, Strut To Structure

1 1/2" = 1'-0"


EMT Per Table Below
For Connection to Structure Refer to J14 X/A602 Typ
EMT No More that one Size Larger that EMT Strut Selected
(2) #10 SMS
Hanger Wire and Brace Wires, Refer to A7 X/A602 Typ
3/4" Min. Typ.
2" Min.
2" Max.
Typ.
6" Min.
12" Max.
1/2" Min.
Main Runner
2" Max.
Flatten End
1/4" Machine bolt to Main Runner
Slot End
Option 1
Option 2
See Option 1 for Notes and Information

Compression Strut EMT Type

Electrical Metallic Tubing (EMT)	Max. Length
1/2" Diameter EMT (0.042" Wall Thickness)	3'-11"
3/4" Diameter EMT (0.049" Wall Thickness)	6'-4"
1" Diameter EMT (0.057" Wall Thickness)	9'-9"
1 1/4" Diameter EMT (0.065" Wall Thickness)	12'-9"
1 1/2" Diameter EMT (0.065" Wall Thickness)	14'-9"
2" Diameter EMT (0.065" Wall Thickness)	18'-10"
Channel Type Strut	
250S125-33	5'-10"
250S137-33	6'-10"
362S137-33	8'-0"
250S137-43	8'-10"
400S137-43	10'-10"

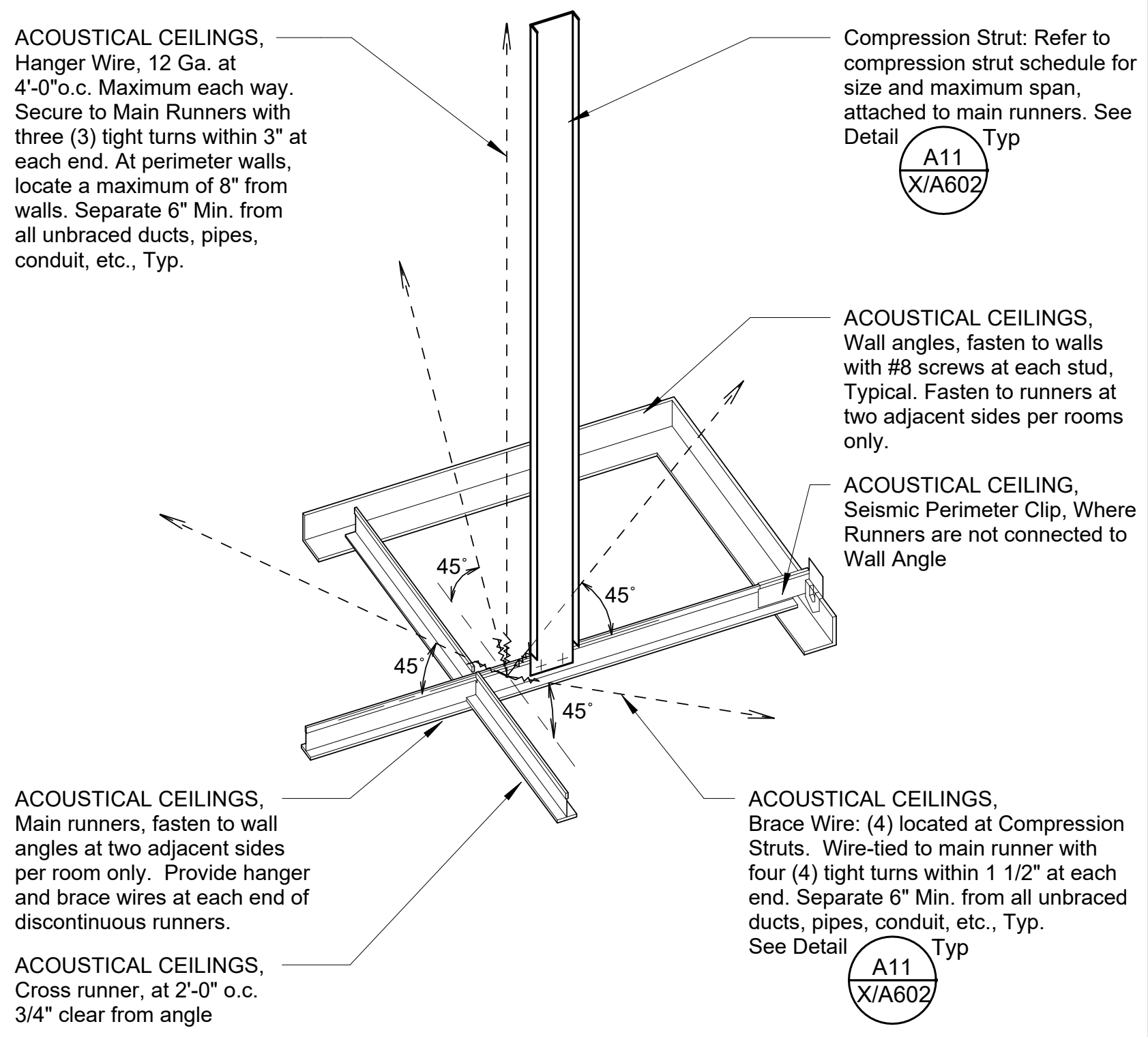
Notes:

1. This detail shall be used for ACOUSTICAL CEILINGS, Lay-In Tiles
2. The Strut Table comports with DSA IR 25-2 (2022 CBC), Sheet 3.21
3. Material Used Shall not be less than the Minimum Shown in the Above Tables.
4. Compression Strut and Bracing Wire conditions shall be located on a grid not exceeding 12'-0" x 12'-0". The "Datum" point for starting the strut/bracing grid shall be 6'-0" from one wall (half of 12'-0") and 6'-0"from an adjacent perpendicular wall (half of 12'-0").
5. Compression Strut shall not replace the vertical Hanger Wires. For Hanger and Bracing Wire information, see detail A7 X/A602 Typ

Strut Schedule

A11 ACOUSTICAL CEILING SUSP. SYSTEM, COMP. STRUT SCHEDULE

3" = 1'-0"


ACOUSTICAL CEILINGS, Hanger Wire, 12 Ga. at 4'-0"o.c. Maximum each way. Secure to Main Runners with three (3) tight turns within 3" at each end. At perimeter walls, locate a maximum of 8" from walls. Separate 6" Min. from all unbraced ducts, pipes, conduit, etc., Typ.
Compression Strut: Refer to compression strut schedule for size and maximum span, attached to main runners. See Detail A11 X/A602 Typ
ACOUSTICAL CEILINGS, Wall angles, fasten to walls with #8 screws at each stud, Typical. Fasten to runners at two adjacent sides per rooms only.
ACOUSTICAL CEILING, Seismic Perimeter Clip, Where Runners are not connected to Wall Angle
45˚
45˚
45˚
45˚
ACOUSTICAL CEILINGS, Main runners, fasten to wall angles at two adjacent sides per room only. Provide hanger and brace wires at each end of discontinuous runners.
ACOUSTICAL CEILINGS, Cross runner, at 2'-0" o.c. 3/4" clear from angle
ACOUSTICAL CEILINGS, Brace Wire: (4) located at Compression Struts. Wire-tied to main runner with four (4) tight turns within 1 1/2" at each end. Separate 6" Min. from all unbraced ducts, pipes, conduit, etc., Typ. See Detail A11 X/A602 Typ

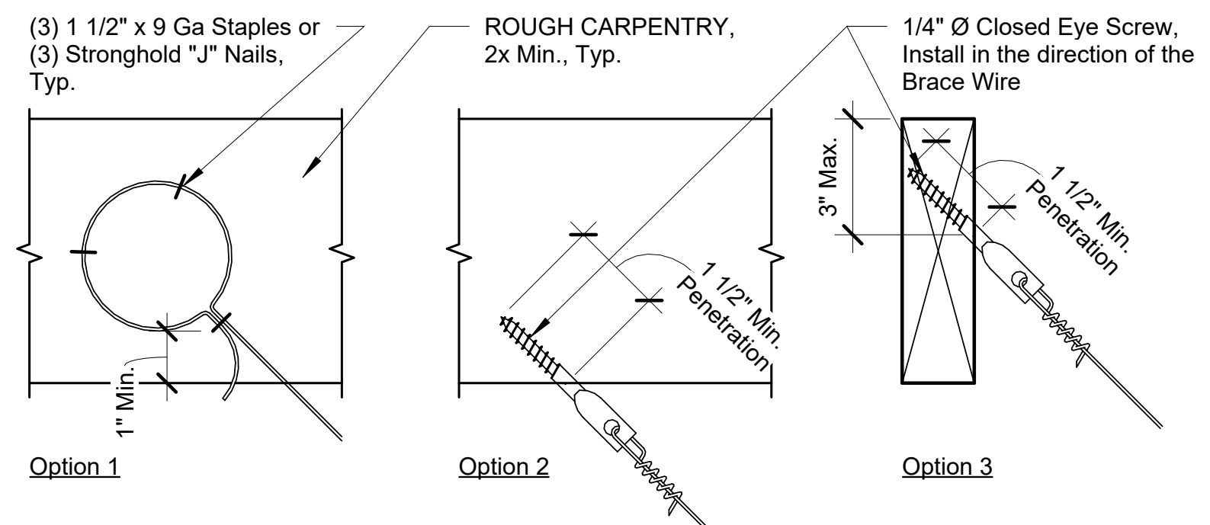
Notes:

1. Splices in Slotted Wall Angles shall be with minimum 12" lap and fasten with (2) #8 screws at each flange.
2. FIRE RATED CEILINGS: Wire Brace and Compression Strut Assemblies are required for each 96 square feet and the first assembly shall be located maximum 4'-0" from each wall.
3. Refer to CBC Section 1617A.1.21, the design and installation to be in compliance with ASTM C635, C636, and E580, Section 5, as amended by 2022 CBC Section 1617A.1.21 .
4. For attachement of hanger and bracing wire to roof structure, See A14 X/A602 Typ
5. Ceiling is rated Heavy Duty

Lay-In Tile Condition

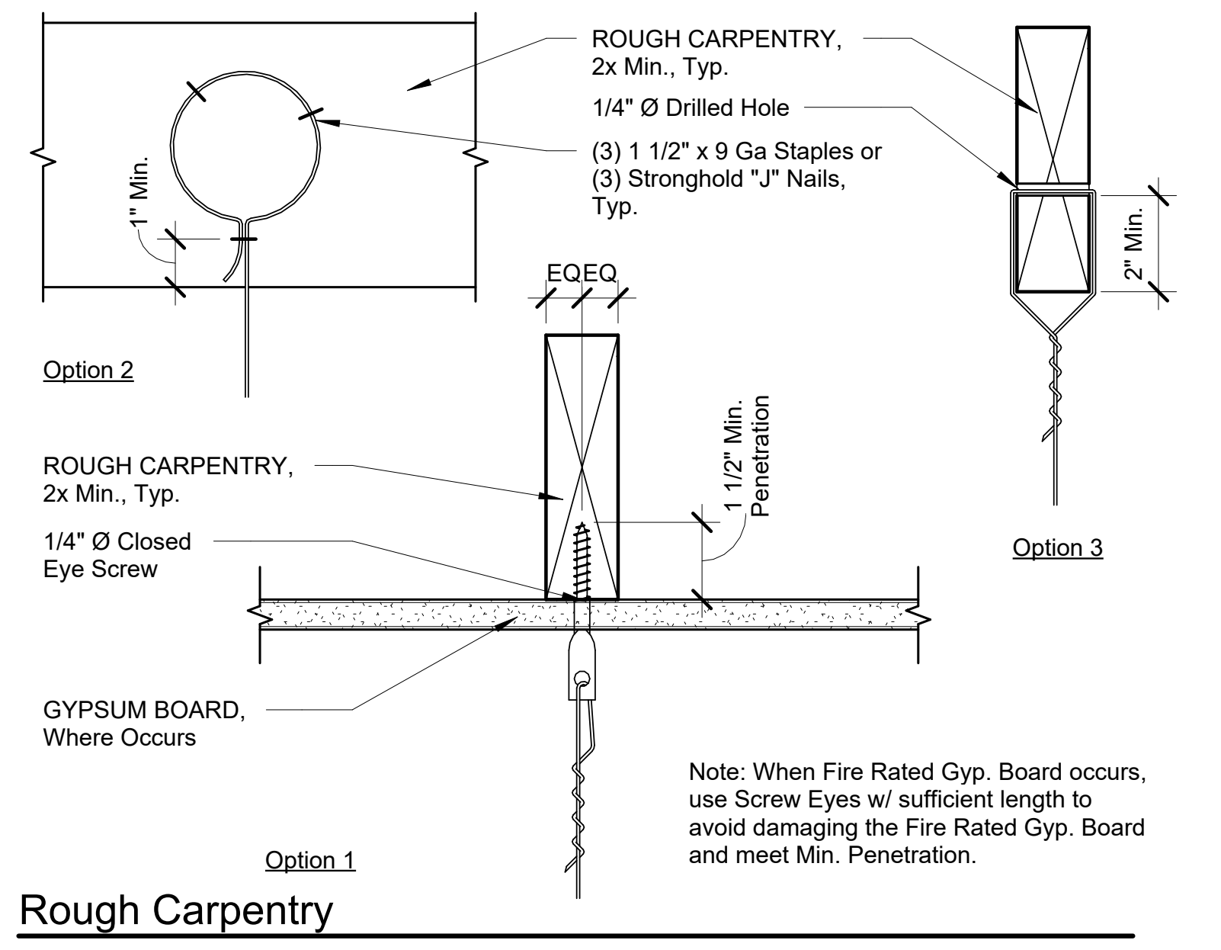
A7 ACOUSTICAL CEILINGS, Suspension System

3" = 1'-0"


(3) 1 1/2" x 9 Ga Staples or (3) Stronghold "J" Nails, Typ.
ROUGH CARPENTRY, 2x Min., Typ.
1/4" Ø Closed Eye Screw, Install in the direction of the Brace Wire
1" Min.
1 1/2" Min. Penetration
3" Max.
1 1/2" Min. Penetration
Option 1
Option 2
Option 3

Rough Carpentry

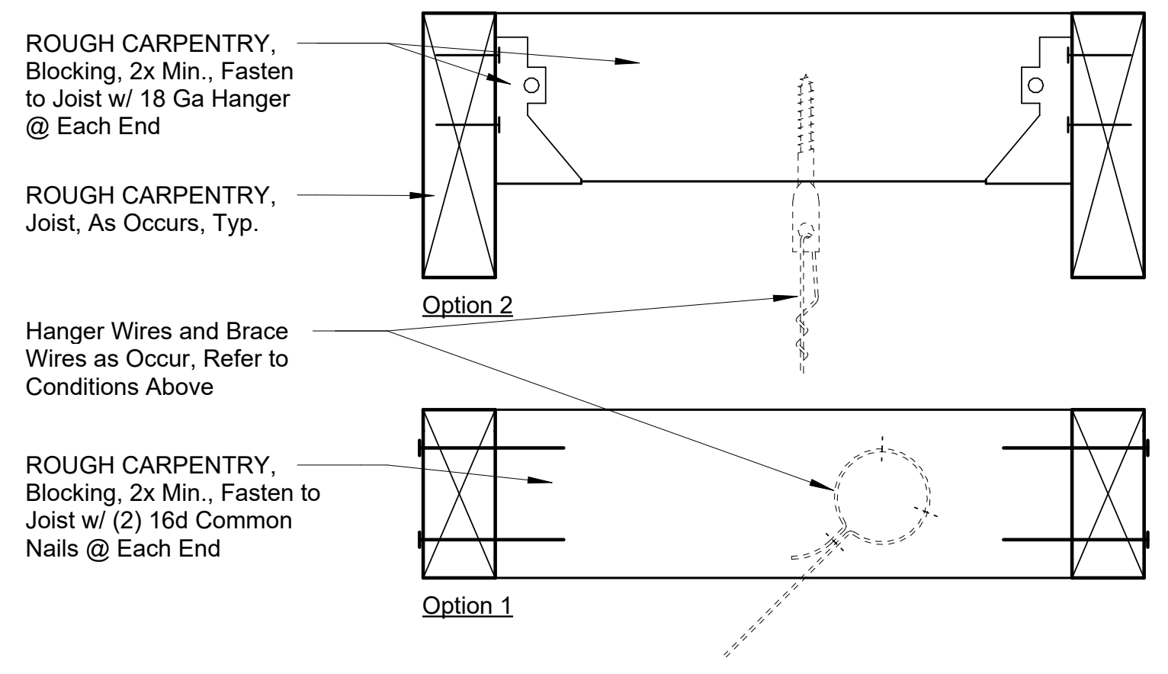
Brace Wire


1" Min.
ROUGH CARPENTRY, 2x Min., Typ.
1/4" Ø Drilled Hole
(3) 1 1/2" x 9 Ga Staples or (3) Stronghold "J" Nails, Typ.
EQEQ
2" Min.
Option 2
ROUGH CARPENTRY, 2x Min., Typ.
1/4" Ø Closed Eye Screw
1 1/2" Min. Penetration
Option 3
GYPSUM BOARD, Where Occurs
Option 1

Note: When Fire Rated Gyp. Board occurs, use Screw Eyes w/ sufficient length to avoid damaging the Fire Rated Gyp. Board and meet Min. Penetration.

Rough Carpentry

Hanger Wire


ROUGH CARPENTRY, Blocking, 2x Min., Fasten to Joist w/ 18 Ga Hanger @ Each End
ROUGH CARPENTRY, Joist, As Occurs, Typ.
Option 2
Hanger Wires and Brace Wires as Occur, Refer to Conditions Above
ROUGH CARPENTRY, Blocking, 2x Min., Fasten to Joist w/ (2) 16d Common Nails @ Each End
Option 1

Rough Carpentry

Typical Min. Blocking for Wire Attachments, For Blocking Requirements refer to STRUCTURAL

A14 ACOUSTICAL CEILINGS, Suspension System, Hanger & Bracing (Splay) Wire Attachments

3" = 1'-0"

Community Day School Modernization
Merced City School District
Merced, CA, 95340
Project

TYPICAL INFORMATION
INTERIOR DETAILS - ACOUSTICAL CEILINGS
Drawing

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ARCHITECTURE
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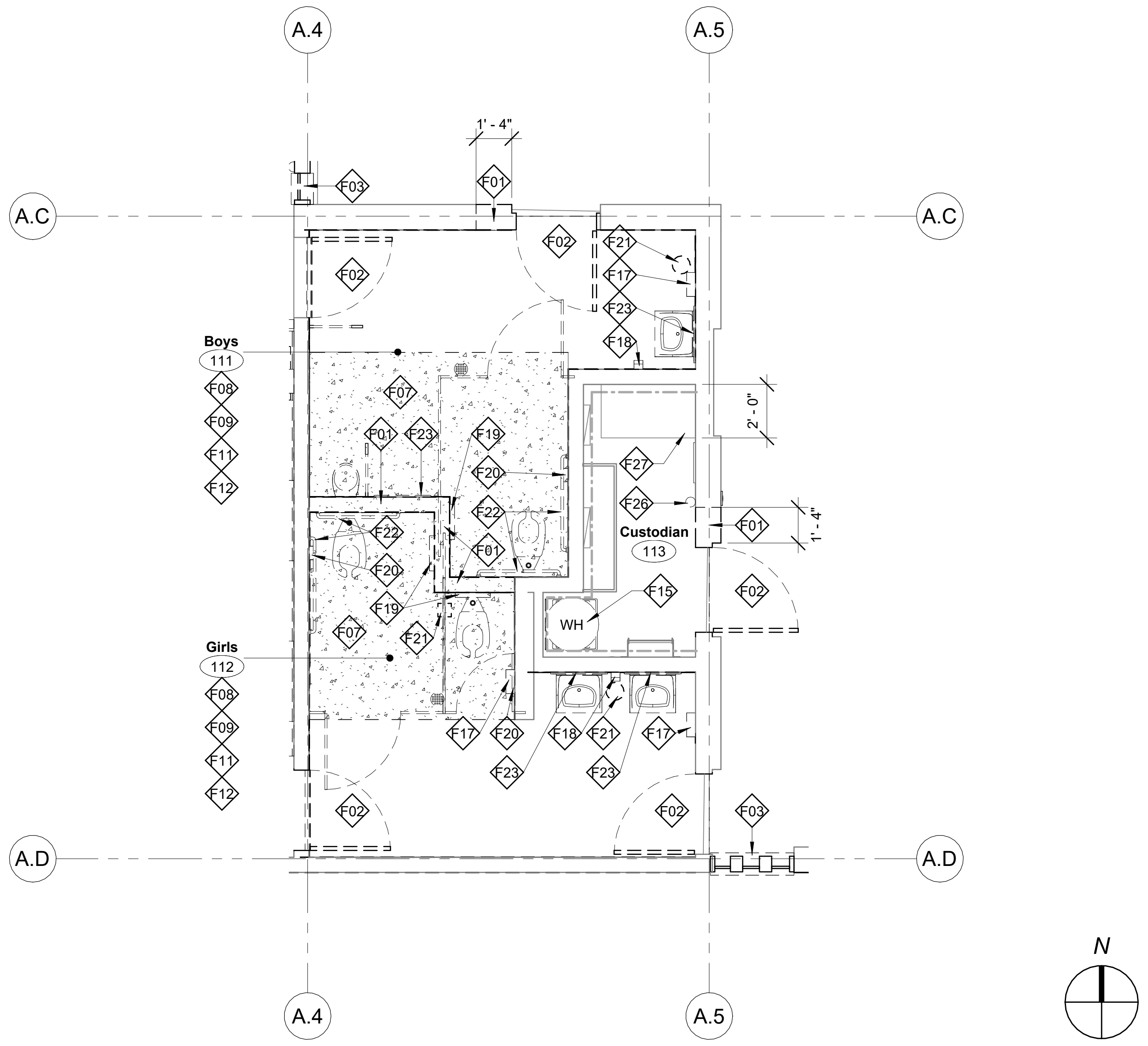
GRANT E. DODSON
No. C-20,307
Ren. 6-30-27
Architect

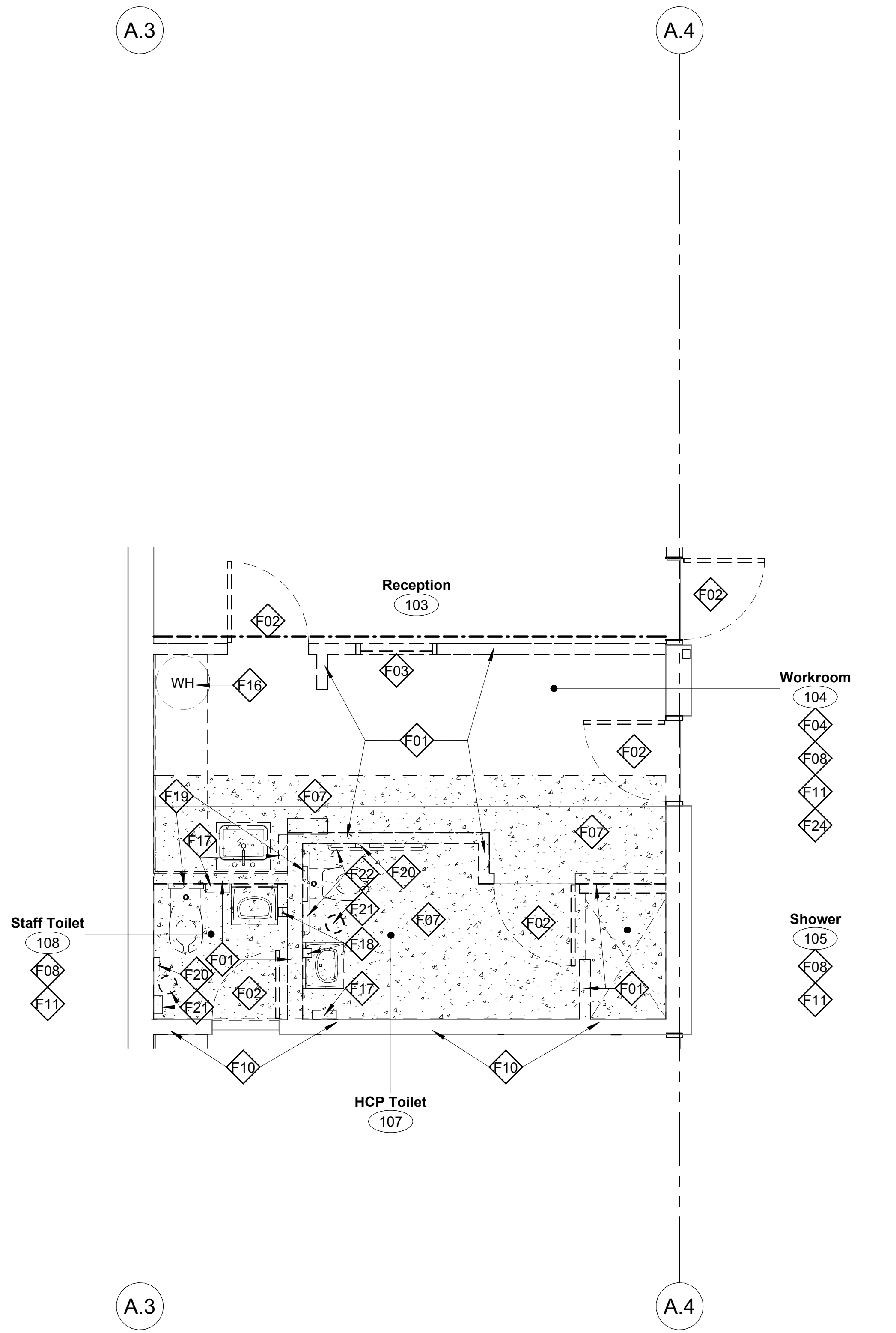
No.	Revision/Submission	Date

Revision

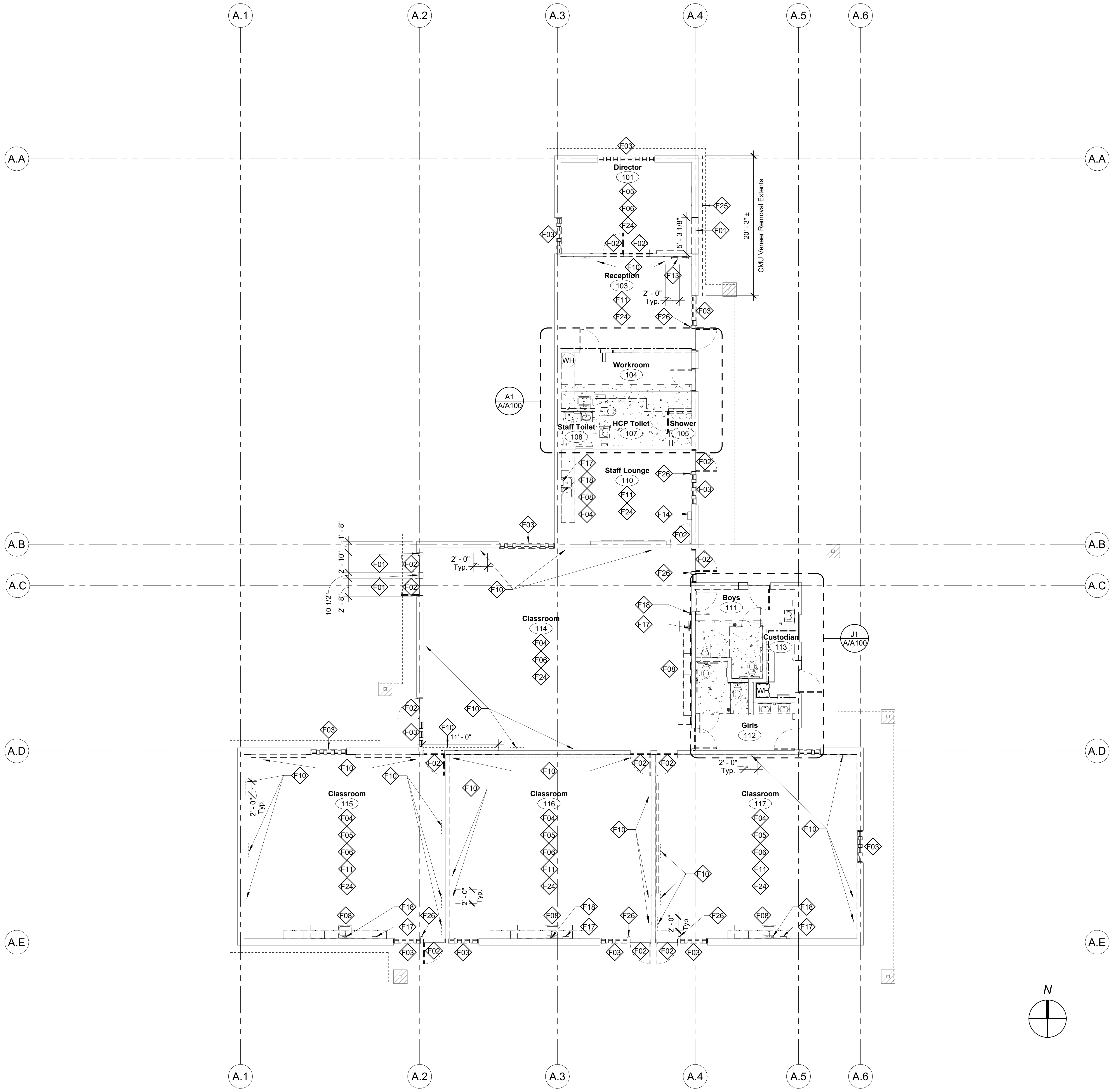
	Designed By: -	
Scale: As indicated	Drawn By: -	X/A602
Project Number: 2533	Checked By: -	
Date: 2/9/2026	Reviewed By: -	



J1
1/4" = 1'-0"
Enlarged Demolition Floor Plan
Refer to E18 for Legend Symbols, Abbreviations and Notes



A1
1/4" = 1'-0"
Enlarged Demolition Floor Plan
Refer to E18 for Legend Symbols, Abbreviations and Notes



A7
1/8" = 1'-0"
Demolition Floor Plan
Refer to E18 for Legend Symbols, Abbreviations and Notes

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

SYMBOLS

Existing Wall
Remove Existing Wall
Remove Existing Building Item (See Demolition Note, Plumbing, Mechanical, and Electrical Drawings)
Room name 101 — Room Designation
F01 — Demolition Note Symbol

GENERAL NOTES

1. See Specifications section, SELECTIVE DEMOLITION, and CUTTING AND PATCHING, See Plumbing, Mechanical, and Electrical Drawings and Specifications.
2. Remove materials, equipment, and finishes indicated by demolition key notes.
3. All Concrete removed shall be within sawcut lines or Existing expansion/ control joint lines.
4. Coordinate removal of door hardware with HARDWARE in the specifications.
5. Where Demolition work is indicated, contractor shall remove and reinstall any or all items necessary for installation of new work. Existing area affected by demolition work shall be patched and repaired to match Existing construction.
6. Any damage resulting from the modernization activity shall be corrected at no additional expense to the owner and all surfaces cleaned and readied to receive new work.
7. Remove, cut, and patch work in a manner to minimize damage and to provide means of restoring products and finishes to original condition.
8. Where new work abuts or aligns with Existing, make a smooth and even transition. Patch work shall match Existing adjacent work in texture and appearance.
9. When Finished surfaces are cut so that a smooth transition with new work is not possible, terminate Existing surfaces along a straight line at a natural line of division and make recommendation to the architect.
10. Contractor to field verify all dimensions and existing floor and wall finishes prior to the commencement of work.
11. Refer to Hazardous Materials Report prior to the commencement of work.

DEMOLITION NOTES

F01	SELECTIVE DEMOLITION, Remove wall or portion of wall, Refer to floor plan for extents, Refer to Structural
F02	SELECTIVE DEMOLITION, Remove Door and Frame, Refer to Structural. Coordinate removal of Security Sensors
F03	SELECTIVE DEMOLITION, Remove and dispose of existing Window and Frame
F04	SELECTIVE DEMOLITION, Remove and dispose of existing Casework
F05	SELECTIVE DEMOLITION, Remove Dry Erase Markerboard, Retain for Reinstallation
F06	SELECTIVE DEMOLITION, Remove and dispose of existing flooring and base
F07	SELECTIVE DEMOLITION, Sawcut and Remove Portion of Existing Concrete Slab. Refer to Plumbing Drawings, Field verify dimensions prior to work, see patch back detail
F08	SELECTIVE DEMOLITION, Remove Plumbing, See PLUMBING for more information
F09	SELECTIVE DEMOLITION, Remove and dispose of existing Toilet Partitions
F10	SELECTIVE DEMOLITION, Remove portion of wall finish down to stud, Refer to floor plan for extents
F11	SELECTIVE DEMOLITION, Remove Floor tile or portion of floor tile
F12	SELECTIVE DEMOLITION, Remove and dipose of existing Wall Tile or portion of wall tile
F13	SELECTIVE DEMOLITION, Remove and Salvage existing TV Monitor for reinstallation
F14	SELECTIVE DEMOLITION, Remove and Salvage existing AED for reinstallation
F15	SELECTIVE DEMOLITION, Remove and Dispose of existing Water Heater
F16	SELECTIVE DEMOLITION, Remove and Salvage existing Instant Water Heater to Owner
F17	SELECTIVE DEMOLITION, Remove and Retain for Reinstallation, Paper Towel Dispenser
F18	SELECTIVE DEMOLITION, Remove and Retain for Reinstallation, Soap Dispenser
F19	SELECTIVE DEMOLITION, Remove and Retain for Reinstallation, Seat Cover Dispenser
F20	SELECTIVE DEMOLITION, Remove and Salvage existing Toilet Tissue Dispenser to Owner
F21	SELECTIVE DEMOLITION, Remove and Retain for Reinstallation, Stand Alone Sanitary Napkin Disposal and Waste Receptacle
F22	SELECTIVE DEMOLITION, Remove and Retain for Reinstallation, Grab Bars
F23	SELECTIVE DEMOLITION, Remove and Retain for Reinstallation, Mirrors
F24	SELECTIVE DEMOLITION, Remove Vinyl Tackboard Finish and 1x Wood Trim, patch Gypsum Board where needed
F25	SELECTIVE DEMOLITION, Remove and Salvage existing CMU Veneer for reinstallation. Coordinate removal with Shear Wall extents and installation of Shear Wall Strap, see Structural.
F26	SELECTIVE DEMOLITION, Remove and Retain for Reinstallation, existing Fire Extinguisher
F27	SELECTIVE DEMOLITION, Remove and Salvage existing shelving to Owner.

E18
No Scale
Demolition Floor Plan Legend

Community Day School Modernization
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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: -
Drawn By: -
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Reviewed By: -
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Project Number: 2533
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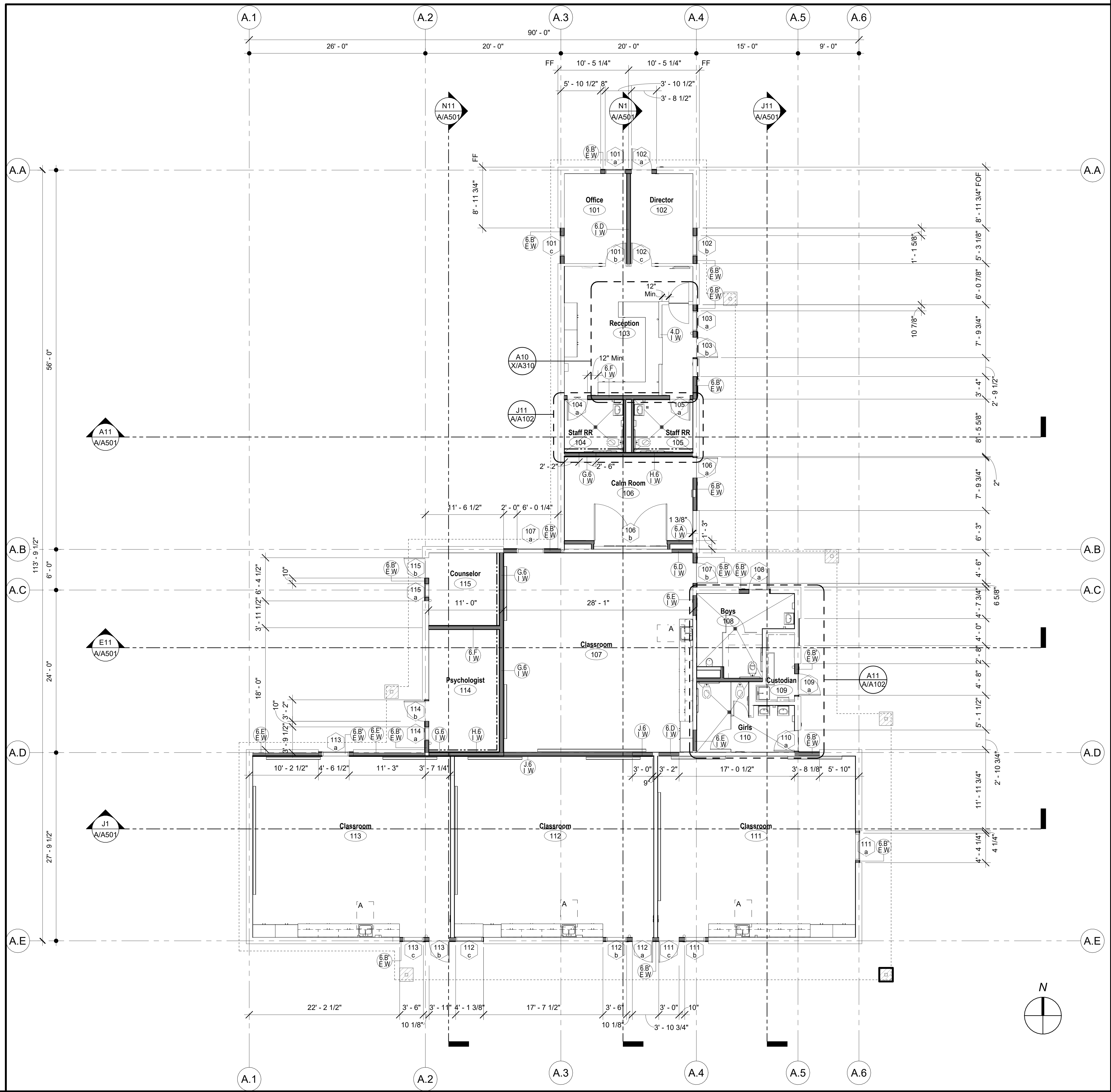

A7

Floor Plan

1/8" = 1'-0"

Refer to H18 for Legend Symbols, Abbreviations and Notes

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

SYMBOLS

▬	Stud Wall, Studs and Interior Wall materials continuous from floor to underside of floor or roof deck. Studs at 16" o.c. unless otherwise noted. Interior Wall material shall include Batt Insulation, and Gypsum Board, where occurs.
—··—··—	2 Hr. Fire Barrier - (2 Hr. Fire Resistive Construction)
101 a	Opening Group No. Refer to Door or Window Opening Schedules
Room name 101	Room Designation
#.# -.#	Wall Assembly Symbols. Refer to Sheet X/A101

ABBREVIATIONS

FF	Face of Finish
FD	Floor Drain
FOS	Face of Stud
FS	Floor Sink
HB	Hose Bib
MO	Masonry Opening
UNO	Unless Noted Otherwise
RO	Rough Opening
Typ.	Typical
Sim.	Similar
OH	Opposite Hand

NOTES

1. All Exterior Walls shall be Wall Assembly Type 6.B' E.W Unless Noted Otherwise.
2. All Interior Walls shall be Wall Assembly Type 6.D I.W Unless Noted Otherwise.
3. All Dimensions are to Face of Stud (FOS) or Center Line, Unless Noted Otherwise.
4. All Elevation Dimensions are above Finish Floor at each floor level, Unless Noted Otherwise.
5. Dimensions noted as "+/-" are nominal.
6. Floor Drains (FD) and Floor Sinks (FS) shall be set -3/4" and a min. of 3'-0" from nearest wall, Unless Noted Otherwise.
7. IDENTIFYING DEVICES, For Room Signage refer A11 X/A601 Typ to and Specifications
8. FIRE RESISTIVE ASSEMBLIES:
   a. All Through Penetrations and Wall Membrane Penetrations through Walls of Fire Resistive Construction shall be protected in accordance with their Fire Resistive Ratings.

   b. All Walls of Fire and/or Smoke Resistive Construction Shall Be Permanently Identified with Signs or Stenciling in lettering not less than 3 inches (76 mm) in. height with a minimum 3/8 inch (9.5 mm) stroke in a contrasting color incorporating the following wording: FIRE AND/OR SMOKE BARRIER "#" HOUR RATED, PROTECT ALL OPENINGS, Signs or Stenciling shall be located above ceilings on both sides of the wall, located 15'-0" from ends of wall and at intervals not to exceed 30'-0" horizontally along the wall or partition. Note: "#" indicates the hourly rating of the wall or partition.
9. All Exterior Wall Connections between New and Existing, Refer to Transition Detail, N11 X/A502 Typ, or Corner Detail, N14 X/A502 Typ

H18

Floor Plan Legend

No Scale

Community Day School Modernization
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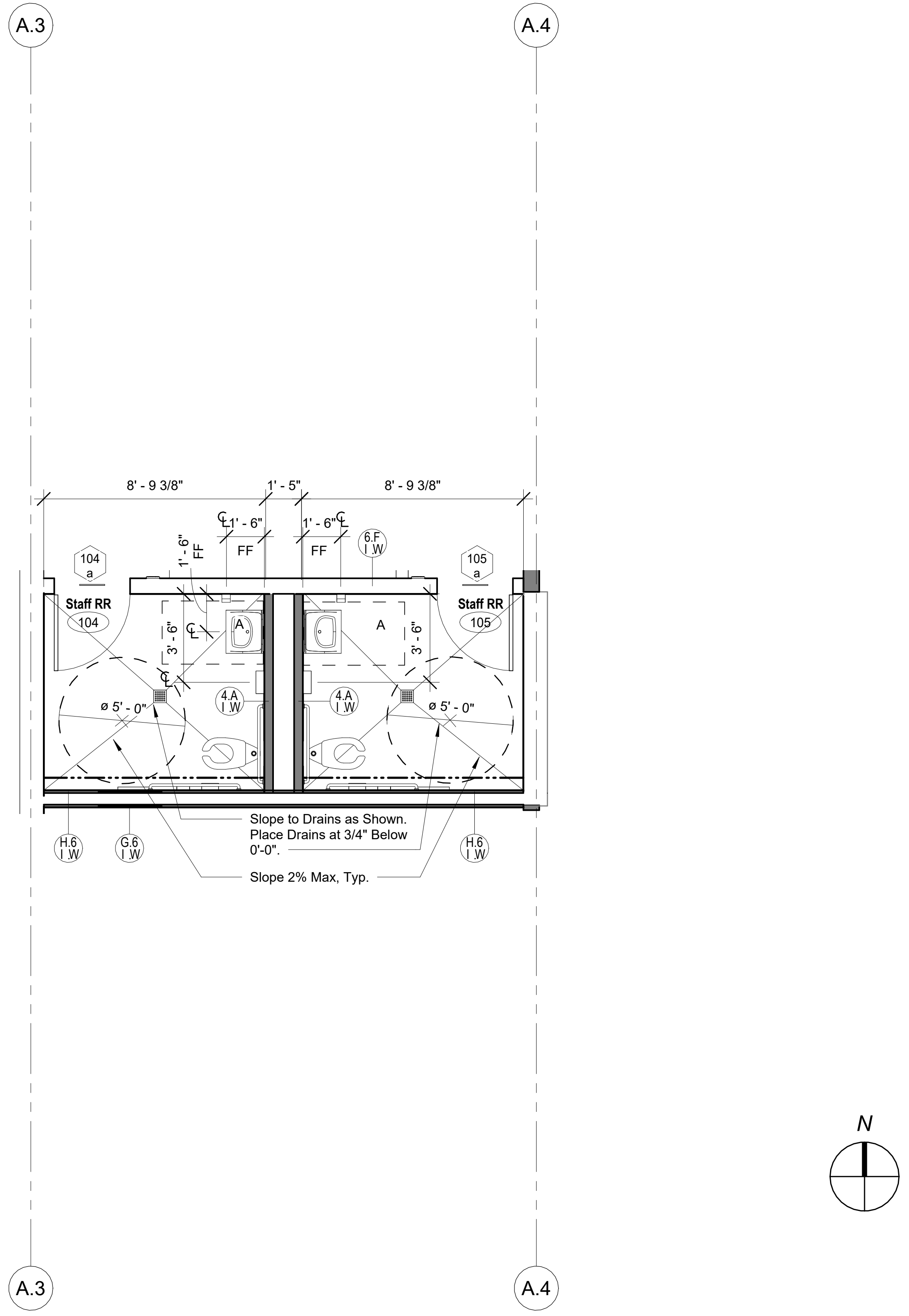


Slope to Drains as Shown. Place Drains at 3/4" Below 0'-0".

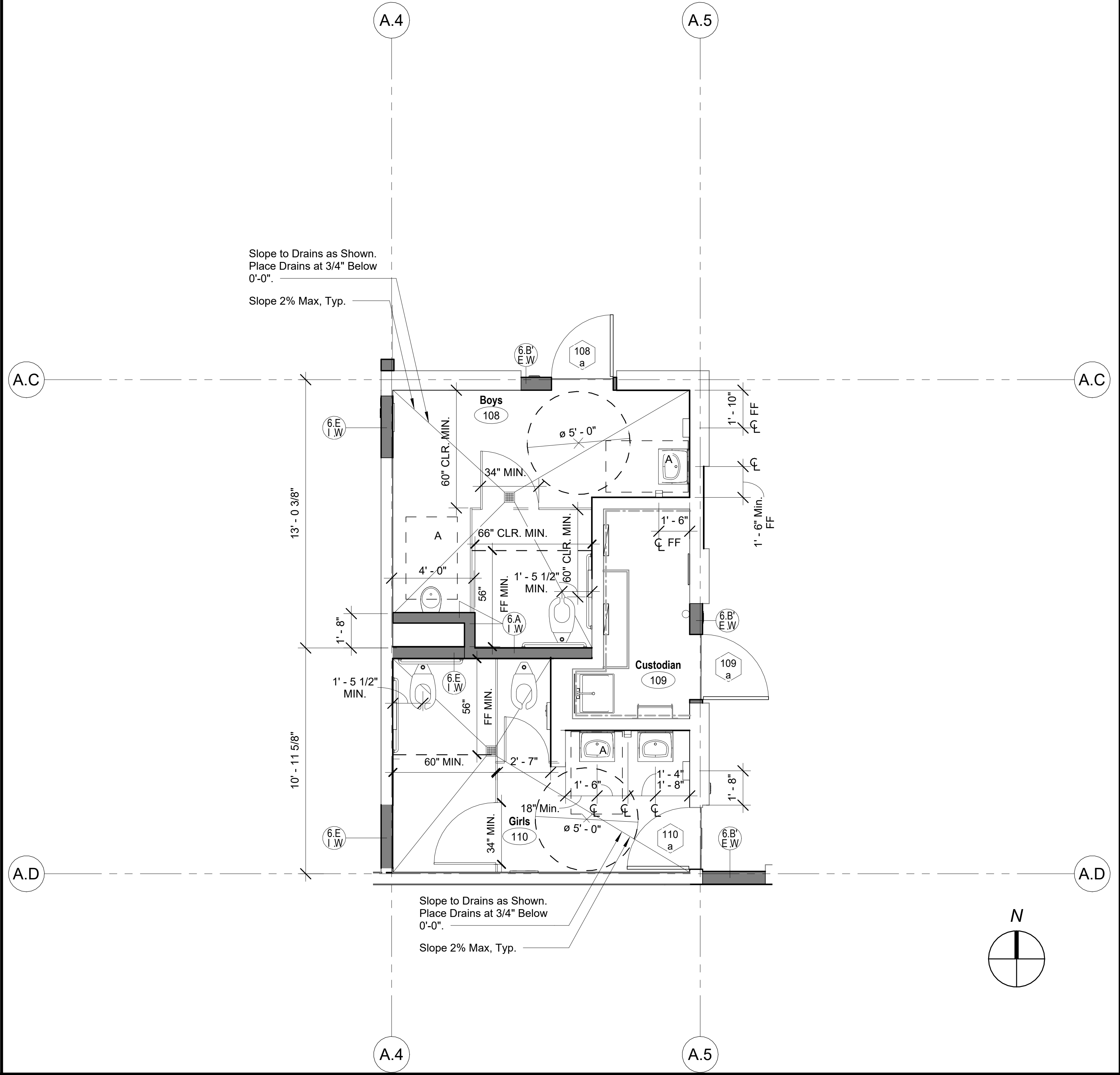
Slope 2% Max, Typ.

J11

1/4" = 1'-0"

Enlarged Plan - 104, 105

Refer to H18 for Legend Symbols, Abbreviations and Notes



Slope to Drains as Shown. Place Drains at 3/4" Below 0'-0".

Slope 2% Max, Typ.

Slope to Drains as Shown. Place Drains at 3/4" Below 0'-0".

Slope 2% Max, Typ.

A11

1/4" = 1'-0"

Enlarged Plan - 108, 110

Refer to H18 for Legend Symbols, Abbreviations and Notes

DSA File No.:
24-35

DSA Application No.:
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SYMBOLS

▬	Stud Wall, Studs and Interior Wall materials continuous from floor to underside of floor or roof deck. Studs at 16" o.c. unless otherwise noted. Interior Wall material shall include Batt Insulation, and Gypsum Board, where occurs.
— · · — · · —	2 Hr. Fire Barrier - (2 Hr. Fire Resistive Construction)
101 a	Opening Group No. Refer to Door or Window Opening Schedules
Room name 101	Room Designation
#.# - .#	Wall Assembly Symbols. Refer to Sheet X/A101

ABBREVIATIONS

FF	Face of Finish
FD	Floor Drain
FOS	Face of Stud
FS	Floor Sink
HB	Hose Bib
MO	Masonry Opening
UNO	Unless Noted Otherwise
RO	Rough Opening
Typ.	Typical
Sim.	Similar
OH	Opposite Hand

NOTES

1. All Exterior Walls shall be Wall Assembly Type 6.B' E.W Unless Noted Otherwise.
2. All Interior Walls shall be Wall Assembly Type 6.D I.W Unless Noted Otherwise.
3. All Dimensions are to Face of Stud (FOS) or Center Line, Unless Noted Otherwise.
4. All Elevation Dimensions are above Finish Floor at each floor level, Unless Noted Otherwise.
5. Dimensions noted as "+/-" are nominal.
6. Floor Drains (FD) and Floor Sinks (FS) shall be set -3/4" and a min. of 3'-0" from nearest wall, Unless Noted Otherwise.
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   a. All Through Penetrations and Wall Membrane Penetrations through Walls of Fire Resistive Construction shall be protected in accordance with their Fire Resistive Ratings.

   b. All Walls of Fire and/or Smoke Resistive Construction Shall Be Permanently Identified with Signs or Stenciling in lettering not less than 3 inches (76 mm) in. height with a minimum 3/8 inch (9.5 mm) stroke in a contrasting color incorporating the following wording: FIRE AND/OR SMOKE BARRIER "#" HOUR RATED, PROTECT ALL OPENINGS, Signs or Stenciling shall be located above ceilings on both sides of the wall, located 15'-0" from ends of wall and at intervals not to exceed 30'-0" horizontally along the wall or partition. Note: "#" indicates the hourly rating of the wall or partition.
9. All Exterior Wall Connections between New and Existing,
   Refer to Transition Detail, N11 X/A502 Typ, or Corner Detail, N14 X/A502 Typ

H18

No Scale

Floor Plan Legend

Community Day School Modernization
Merced City School District
Merced, CA, 95340

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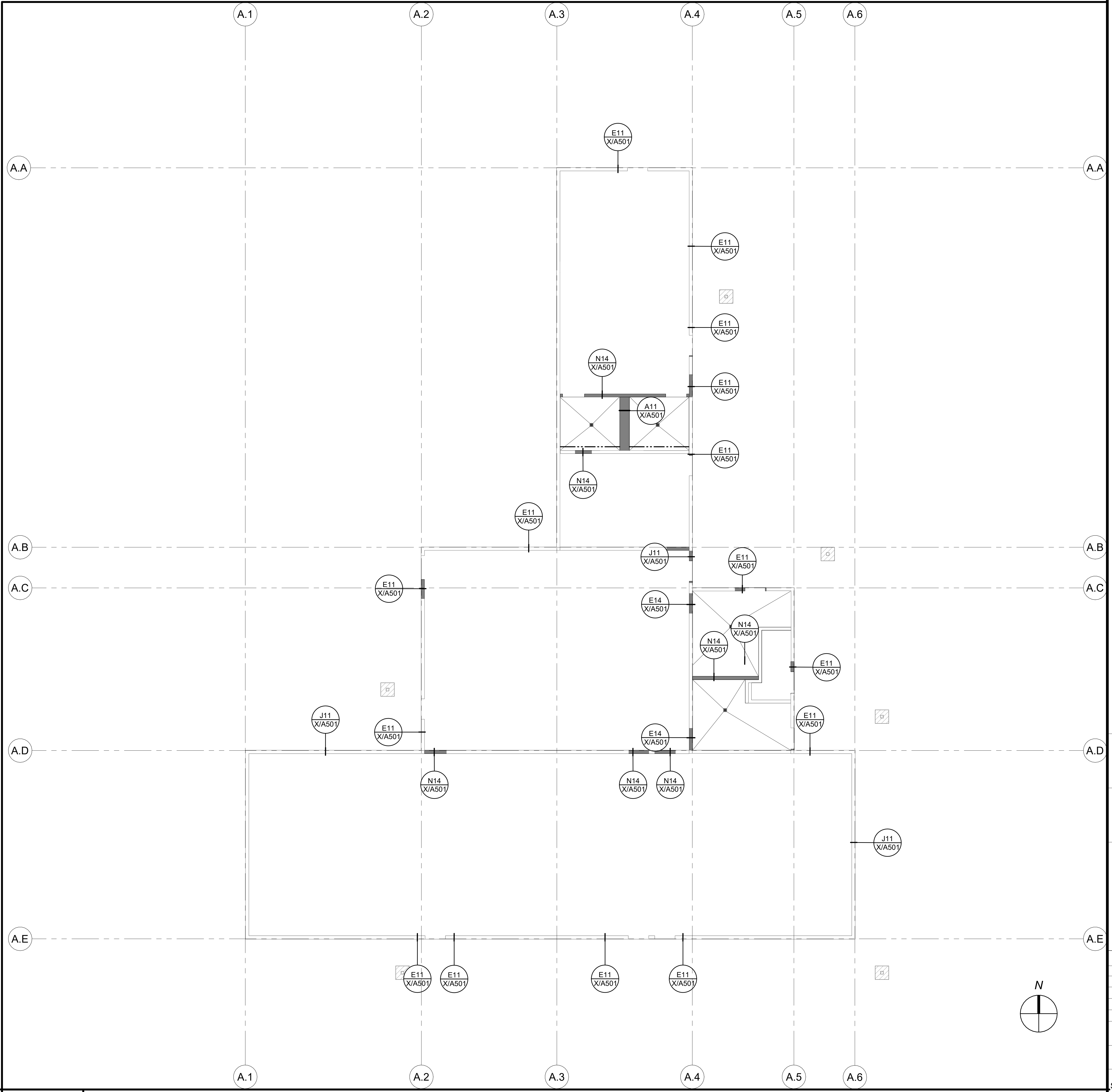

A7
1/8" = 1'-0"

Curb Plan

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Merced, CA, 95340

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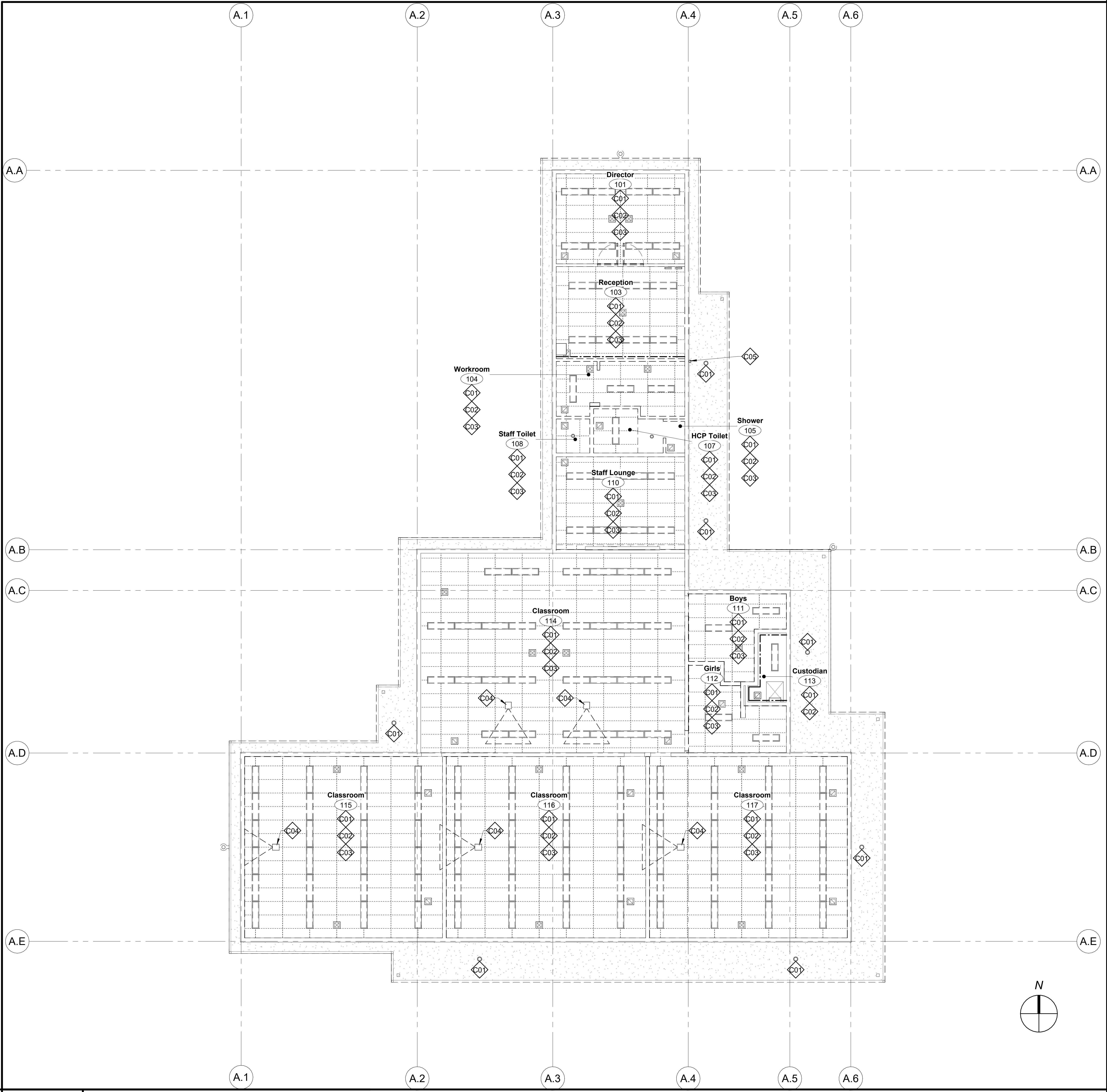

A7

1/8" = 1'-0"

Demolition Reflected Ceiling Plan

Refer to J18 for Legend Symbols, Abbreviations and Notes

DSA File No.:
24-35

DSA Application No.:
02-123716

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SYMBOLS

═	Existing Wall
═ ═ ═ ═ ═	Remove Existing Wall
┆	Remove Existing Building Item (See Demolition Note, Plumbing, Mechanical, and Electrical Drawings)
Room name 101	Room Designation
◇C01	Demolition Note Symbol
⬚	Demolished Acoustical Ceiling Tiles, see demolition notes
▨	Demolished Cement Plaster Ceiling, see demolition notes

GENERAL NOTES

1. See Specifications section, SELECTIVE DEMOLITION, and CUTTING AND PATCHING, See Plumbing, Mechanical, and Electrical Drawings and Specifications.
2. Remove materials, equipment, and finishes indicated by demolition key notes.
3. Where Demolition work is indicated, contractor shall remove and reinstall any or all items necessary for installation of new work. Existing area affected by demolition work shall be patched and repaired to match Existing construction.
4. Any damage resulting from the modernization activity shall be corrected at no additional expense to the owner and all surfaces cleaned and readied to receive new work.
5. Remove, cut, and patch work in a manner to minimize damage and to provide means of restoring products and finishes to original condition.
6. Where new work abuts or aligns with Existing, make a smooth and even transition. Patch work shall match Existing adjacent work in texture and appearance.
7. When Finished surfaces are cut so that a smooth transition with new work is not possible, terminate Existing surfaces along a straight line at a natural line of division and make recommendation to the architect.
8. Coordinate demolition with MECHANICAL, ELECTRICAL, and PLUMBING.

DEMOLITION NOTES

C01	SELECTIVE DEMOLITION, Remove Light Fixture, Refer to Electrical Drawings
C02	SELECTIVE DEMOLITION, Remove HVAC Grilles, Refer to Mechanical Drawings
C03	SELECTIVE DEMOLITION, Remove Suspended Ceiling Systems and Accessories
C04	SELECTIVE DEMOLITION, Remove and Reinstall ceiling mounted projector
C05	SELECTIVE DEMOLITION, Remove and Reinstall Lock Box

J18

Demolition Reflected Ceiling Legend

No Scale

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BUILDING A
DEMOLITION REFLECTED CEILING PLAN

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SYMBOLS

⊠	MECHANICAL, Air Supply Grill
◩	MECHANICAL, Air Return Grill
▭	MECHANICAL, Strip Grill
⊠	MECHANICAL, Exhaust Fan
○ OD	PLUMBING, Existing Overflow Drain
⌧	ACOUSTICAL CEILINGS, Suspended Ceiling Compression Strut/ Splay Wire location
▢ (E RA)	ROOF ACCESSORIES, Roof Hatch
▭ ◎ ▬	ELECTRICAL, Light Fixture, Recessed. Unless Noted Otherwise. (p) = Pendant Mounted (s) = Surface Mounted
(HD)	ELECTRICAL, Fire Alarm Device, Heat Detector
(SD)	ELECTRICAL, Fire Alarm Device, Smoke Detector
(S)	ELECTRICAL, Speaker
▨	CEMENT PLASTER, Cement Plaster System
▭	GYPSUM BOARD, Refer to Interior Finish Schedule
▦	ACOUSTICAL CEILINGS, Refer to Plan for Type.
◎	PLUMBING, Existing Roof Drain, Refer to Plumbing.
▢	ACCESS DOORS AND FRAMES, Access Doors, Ceiling (20" X 30"), UNO
— · · — · · —	2 Hr. Fire Barrier - (2 Hr. Fire Resistive Construction)

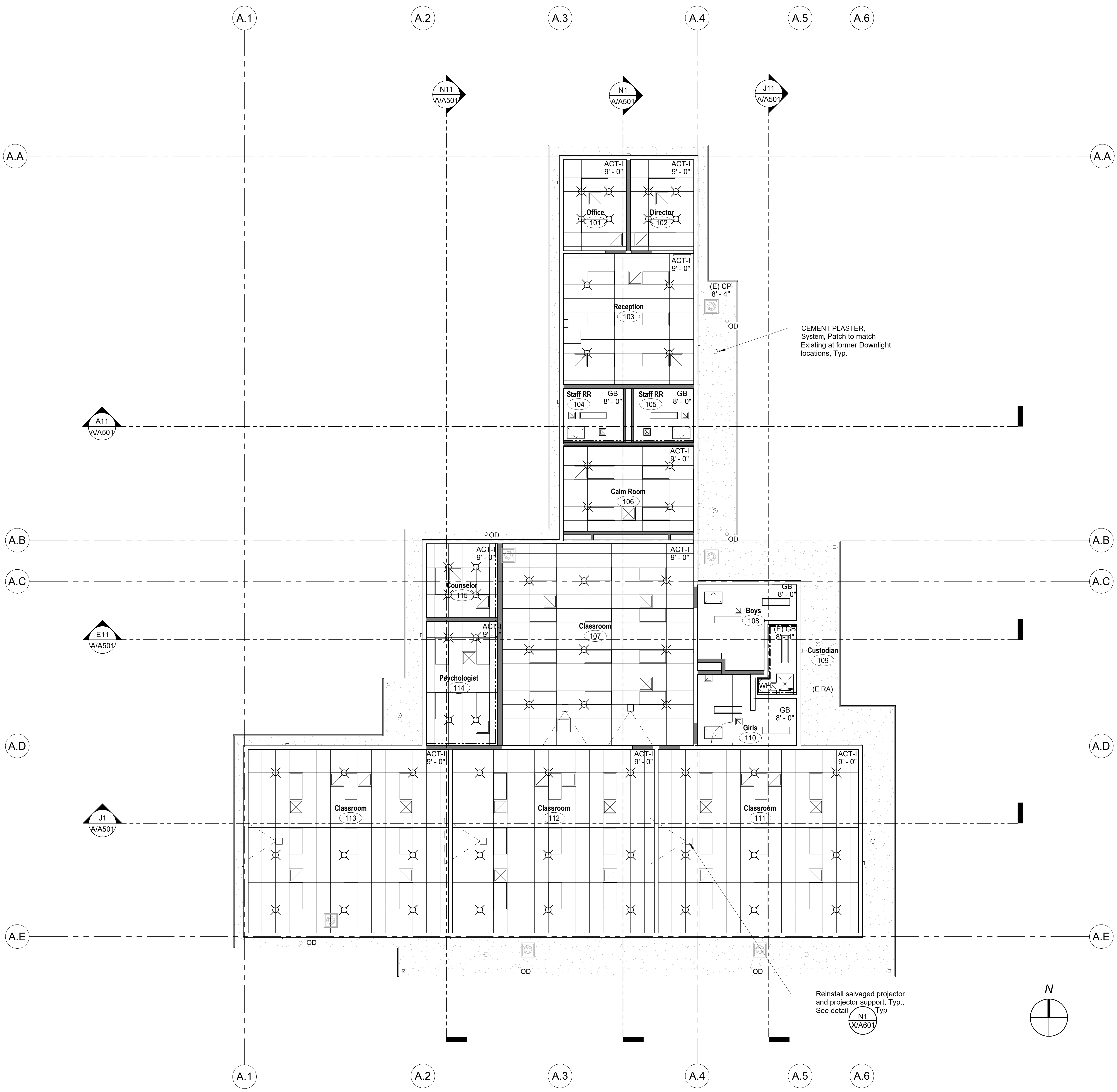
ABBREVIATIONS

ACT	ACOUSTICAL CEILINGS, Tile, Suspended, Unless Noted Otherwise.
CLG	Ceiling
CP	CEMENT PLASTER, System
(E)	Existing
GB	GYPSUM BOARD, Type 'X', Unless Noted Otherwise.
HT	Height
TYP	Typical
SIM	Similar
OH	Opposite hand
DS	Downspout
OD	Overflow Drain
UNO	Unless Noted Otherwise

NOTES

1. ACOUSTICAL CEILINGS, For typical suspended ceiling support, bracing, and ceiling plan, Refer to A11 X/A602 Typ A7 X/A602 Typ N4 X/A602 Typ
2. Ceiling Heights indicated are above Finish Floor at each floor level, UNO.
3. See Structural for framing of soffits and ceilings
4. Single Lights or Single Rows of Lights at Soffits/ Ceilings shall be centered, UNO.

F18 | Reflected Ceiling Legend
No Scale



CEMENT PLASTER, System, Patch to match Existing at former Downlight locations, Typ.

Reinstall salvaged projector and projector support, Typ., See detail N1 X/A601 Typ

A7 | Reflected Ceiling Plan
1/8" = 1'-0"
Refer to F18 for Legend Symbols, Abbreviations and Notes

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DSA File No.:
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DSA Application No.:
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SYMBOLS

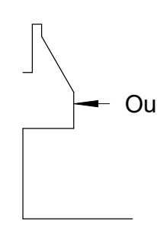
═	Existing Wall
R01	Demolition Note Symbol

GENERAL NOTES

1. See Specifications section, SELECTIVE DEMOLITION, and CUTTING AND PATCHING, See Plumbing, Mechanical, and Electrical Drawings and Specifications.
2. Remove materials, equipment, and finishes indicated by demolition key notes.
3. Where Demolition work is indicated, contractor shall remove and reinstall any or all items necessary for installation of new work. Existing area affected by demolition work shall be patched and repaired to match Existing construction.
4. Any damage resulting from the modernization activity shall be corrected at no additional expense to the owner and all surfaces cleaned and readied to receive new work.
5. Remove, cut, and patch work in a manner to minimize damage and to provide means of restoring products and finishes to original condition.
6. Where new work abuts or aligns with Existing, make a smooth and even transition. Patch work shall match Existing adjacent work in texture and appearance.
7. When Finished surfaces are cut so that a smooth transition with new work is not possible, terminate Existing surfaces along a straight line at a natural line of division and make recommendation to the architect.

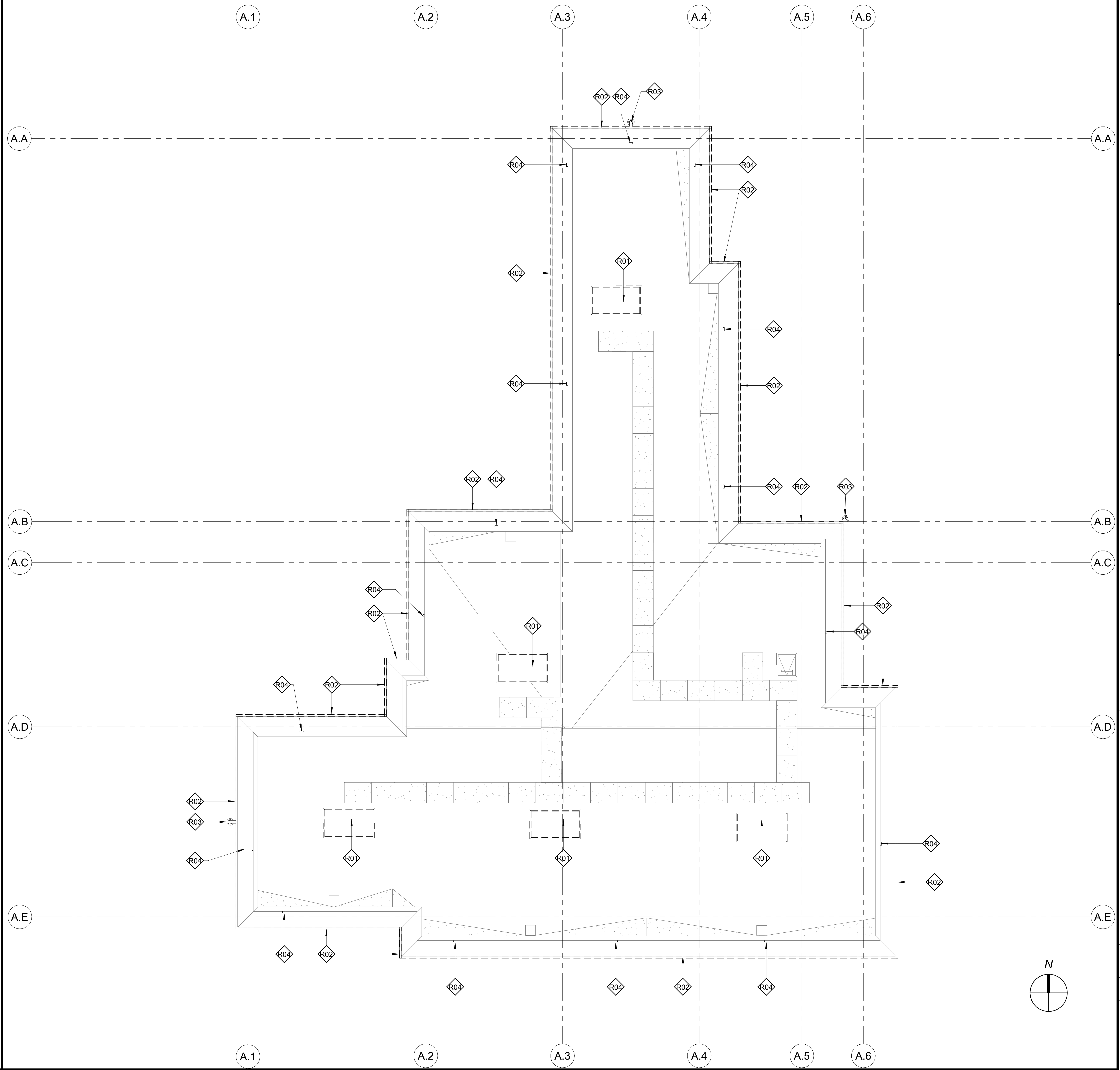
DEMOLITION NOTES

R01	SELECTIVE DEMOLITION, Remove and Salvage to Owner, HVAC Equipment and Accessories, Refer to Mechanical Drawings
R02	SELECTIVE DEMOLITION, Remove and Dispose of Redwood FasciaTrim on Outer Face Wall
R03	SELECTIVE DEMOLITION, Remove and Salvage to Owner, Security Cameras for Reinstallation
R04	SELECTIVE DEMOLITION, Remove and Salvage to Owner, Exterior Building Lights



J18
No Scale

Demolition Roof Plan Legend



A7
1/8" = 1'-0"

Demolition Roof Plan

Refer to J18 for Legend Symbols, Abbreviations and Notes

Community Day School Modernization
Merced City School District
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DEMOLITION ROOF PLAN

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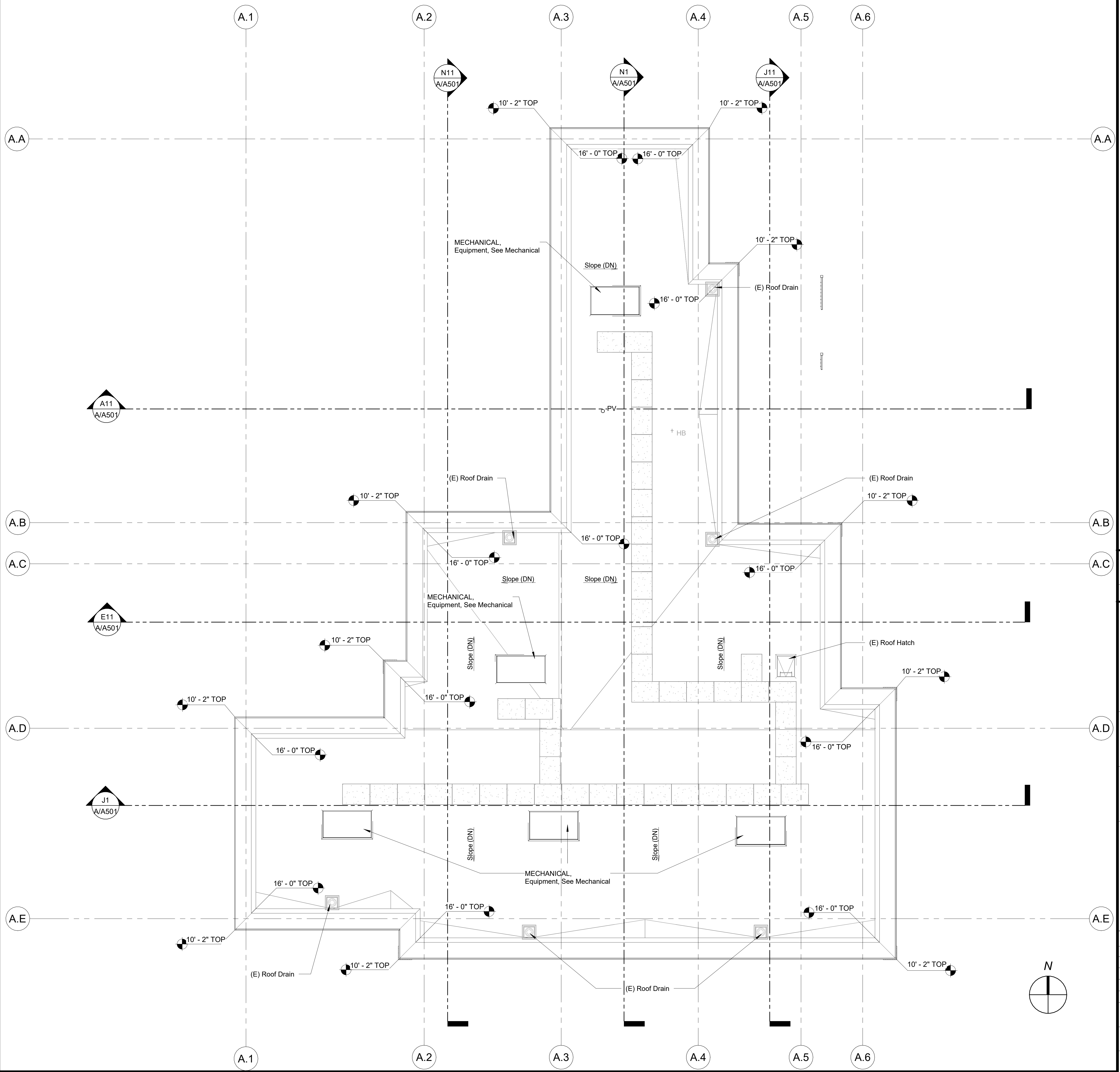

A7

Roof Plan

1/8" = 1'-0"

Refer to F18 for Legend Symbols, Abbreviations and Notes

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

SYMBOLS

⊡	PLUMBING, Existing Roof Drain and Overflow
☐	ROOF ACCESSORIES, Existing Roof Hatch
○PV	PLUMBING, Vent
+14'-6" TOP	Elevation above finish floor
Slope (DN)	Direction of slope
+ HB	PLUMBING, Hose Bib
⊕	Reference Point

ABBREVIATIONS

TOP	Top of Parapet Framing
FO Frmg.	Face of Framing
OD	PLUMBING, Overflow Drain
TOB	Top of Parapet Brace Framing
TOF	Top of Framing
RD	PLUMBING, Roof Drain
TOM	Top of Masonry
OH	Opposite Hand
DS	Downspout
FOS	Face of Stud
TOS	Top of Steel
Sim.	Similar
Typ.	Typical

NOTES

1. Refer to Plumbing, Mechanical, and Electrical for all roof penetrations and roof mounted equipment.

F18

Roof Plan Legend

No Scale

Community Day School Modernization
Merced City School District
Merced, CA, 95340
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No. C-20,307
Ren. 6-30-27
STATE OF CALIFORNIA

Grant E Dodson

Architect

No.	Revision/Submission	Date

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2/6/2026 11:28:25 AM
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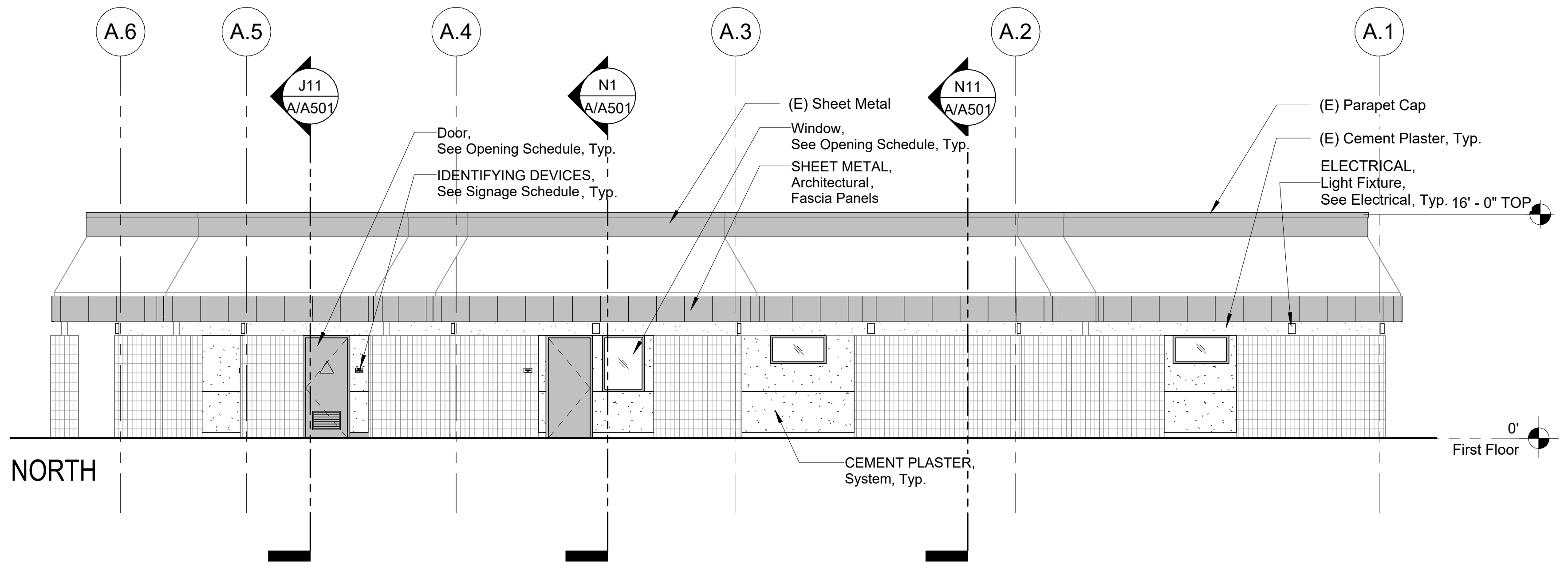
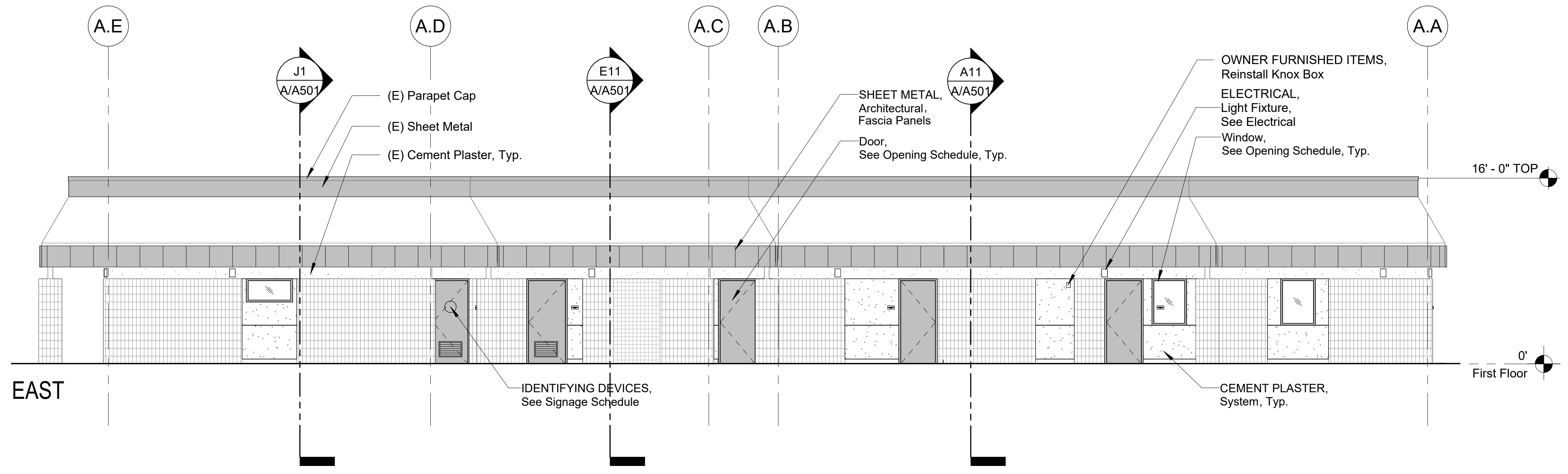
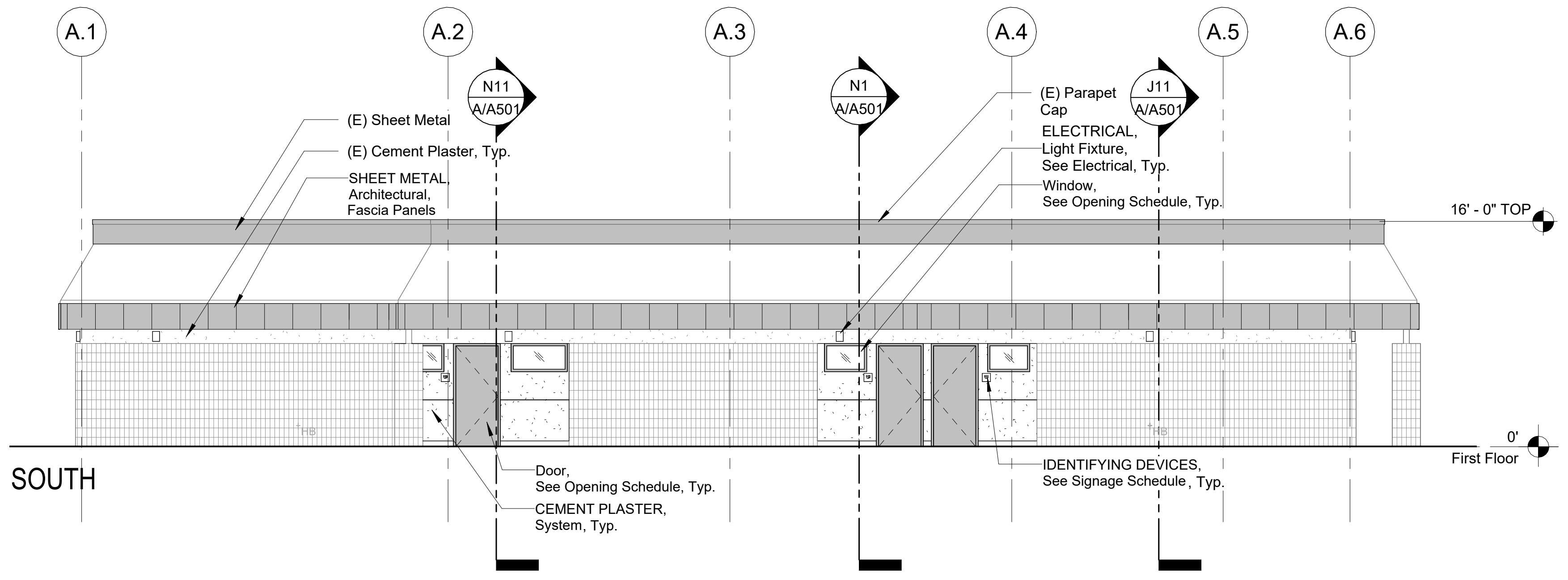
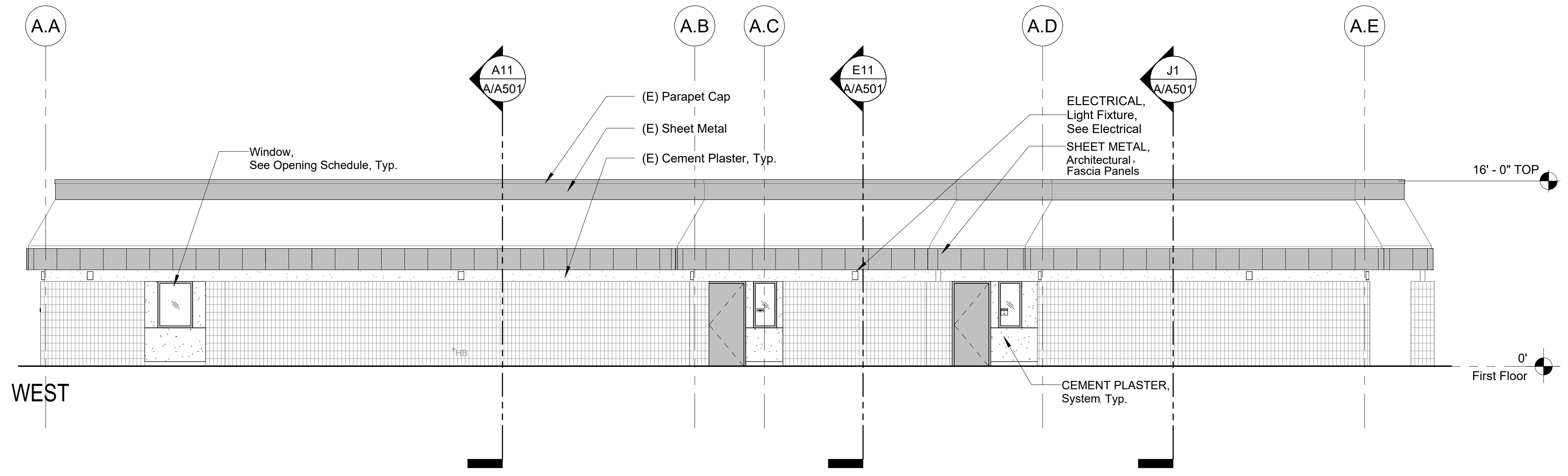

A.6
A.5
A.4
A.3
A.2
A.1
J11 A/A501
N1 A/A501
N11 A/A501
Door, See Opening Schedule, Typ.
IDENTIFYING DEVICES, See Signage Schedule, Typ.
(E) Sheet Metal
Window, See Opening Schedule, Typ.
SHEET METAL, Architectural, Fascia Panels
(E) Parapet Cap
(E) Cement Plaster, Typ.
ELECTRICAL, Light Fixture, See Electrical, Typ.
16' - 0" TOP
0'
First Floor
CEMENT PLASTER, System, Typ.
NORTH


A.E
A.D
A.C
A.B
A.A
J1 A/A501
E11 A/A501
A11 A/A501
(E) Parapet Cap
(E) Sheet Metal
(E) Cement Plaster, Typ.
SHEET METAL, Architectural, Fascia Panels
Door, See Opening Schedule, Typ.
OWNER FURNISHED ITEMS, Reinstall Knox Box
ELECTRICAL, Light Fixture, See Electrical
Window, See Opening Schedule, Typ.
16' - 0" TOP
IDENTIFYING DEVICES, See Signage Schedule
CEMENT PLASTER, System, Typ.
0'
First Floor
EAST


A.1
A.2
A.3
A.4
A.5
A.6
N11 A/A501
N1 A/A501
J11 A/A501
(E) Sheet Metal
(E) Cement Plaster, Typ.
SHEET METAL, Architectural, Fascia Panels
(E) Parapet Cap
ELECTRICAL, Light Fixture, See Electrical, Typ.
Window, See Opening Schedule, Typ.
16' - 0" TOP
HB
0'
First Floor
Door, See Opening Schedule, Typ.
CEMENT PLASTER, System, Typ.
IDENTIFYING DEVICES, See Signage Schedule, Typ.
SOUTH


A.A
A.B
A.C
A.D
A.E
A11 A/A501
E11 A/A501
J1 A/A501
Window, See Opening Schedule, Typ.
(E) Parapet Cap
(E) Sheet Metal
(E) Cement Plaster, Typ.
ELECTRICAL, Light Fixture, See Electrical
SHEET METAL, Architectural, Fascia Panels
16' - 0" TOP
HB
0'
First Floor
CEMENT PLASTER, System Typ.
WEST

A1

Exterior Elevations

1/8" = 1'-0"

Refer to F18 for Legend Symbols, Abbreviations and Notes

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

EXTERIOR COLOR LEGEND

Plaster Colors (New and Existing)

PC-1	Beige

Plaster walls perpendicular to elevation, not shown elsewhere, shall be the same color as face plane, Unless Noted Otherwise.

Metal Colors

MC-1	Beige
MC-2	Blue

All Hollow Metal Frames to be MC-2
All Steel and Fabrications to match adjacent wall, UNO.

Door Colors

All Doors to be MC-2

Color Notes

1. XX-X Color Designation.
2. Parapet caps to match color of wall below, UNO.
3. Soffits to match color of outer face wall, UNO.

Outer Face Wall
Soffit
Inner Face Wall

4. Horizontal soffits adjacent to fascia board shall be PC-1.

Fascia Board
PC-1

SYMBOLS

▯H	ELECTRICAL, Horn
▯S	ELECTRICAL, Speaker
▯	ELECTRICAL, Outlet
▯	ELECTRICAL, Light Fixture, +7'-6" B.O. Fixture UNO
⫽	Glass
+HB	Existing Hose Bibb

ABBREVIATIONS

AFF	Above Finished Floor
BO	Bottom of
CJ	Control Joint
EJ	Expansion Joint
HB	PLUMBING, Hose Bibb.
OH	Opposite Hand
Sim.	Similar
TO	Top of
TOM	Top of Masonry
TOP	Top of Parapet Framing
TOF	Top of Framing
TOR	Top of Roof
TOS	Top of Steel
TPL	Top of Plate
Typ.	Typical
UNO	Unless Noted Otherwise

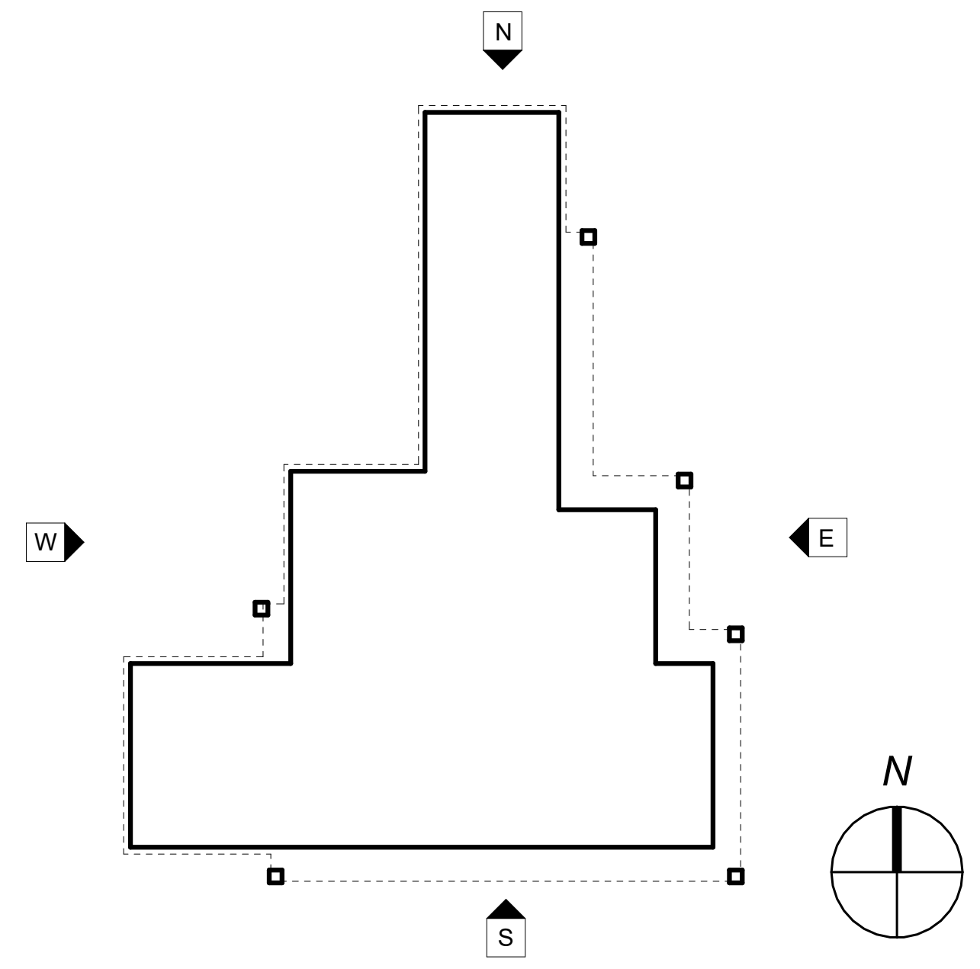
NOTES

1. CEMENT PLASTER, Cement Plaster System, Accessories, Refer to Detail A14 X/A502 Typ
2. Refer to Specifications Section Appendix "C" Exterior Color Schedule.
3. Refer to Exterior Finish Schedule on Sheet X/A201.

F18

Exterior Elevations Legend

No Scale



A15

Key Plan

No Scale

Community Day School Modernization
Merced City School District
Merced, CA, 95340
Project

BUILDING A
EXTERIOR ELEVATIONS
Drawing

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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

	Designed By: -	Copyright 2026 Darden Architects
Scale: As indicated	Drawn By: -	A/A401
Project Number: 2533	Checked By: -	
Date: 2/9/2026	Reviewed By: -	

2/6/2026 11:28:32 AM
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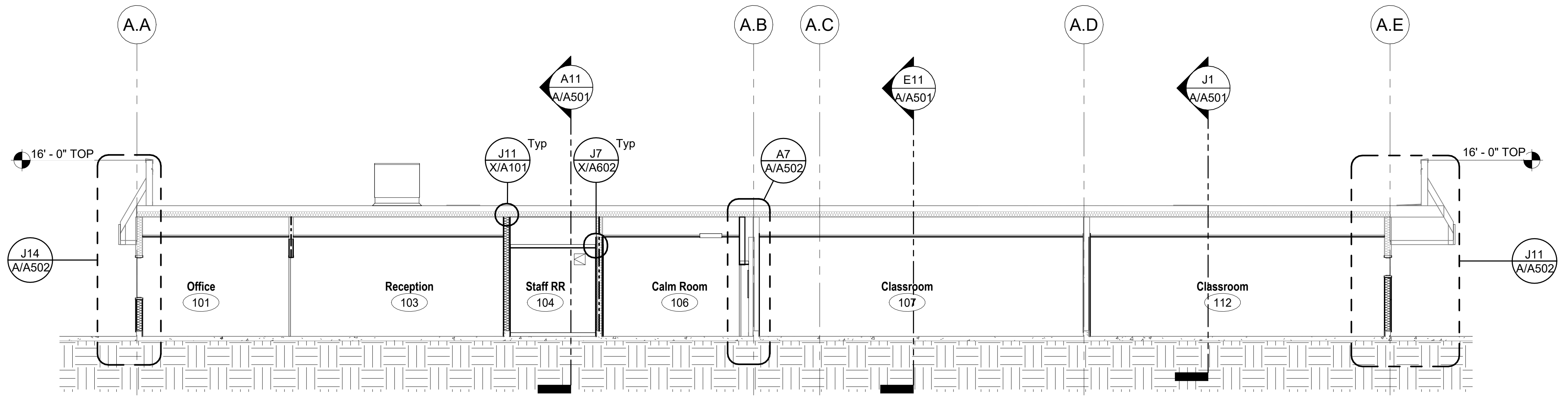
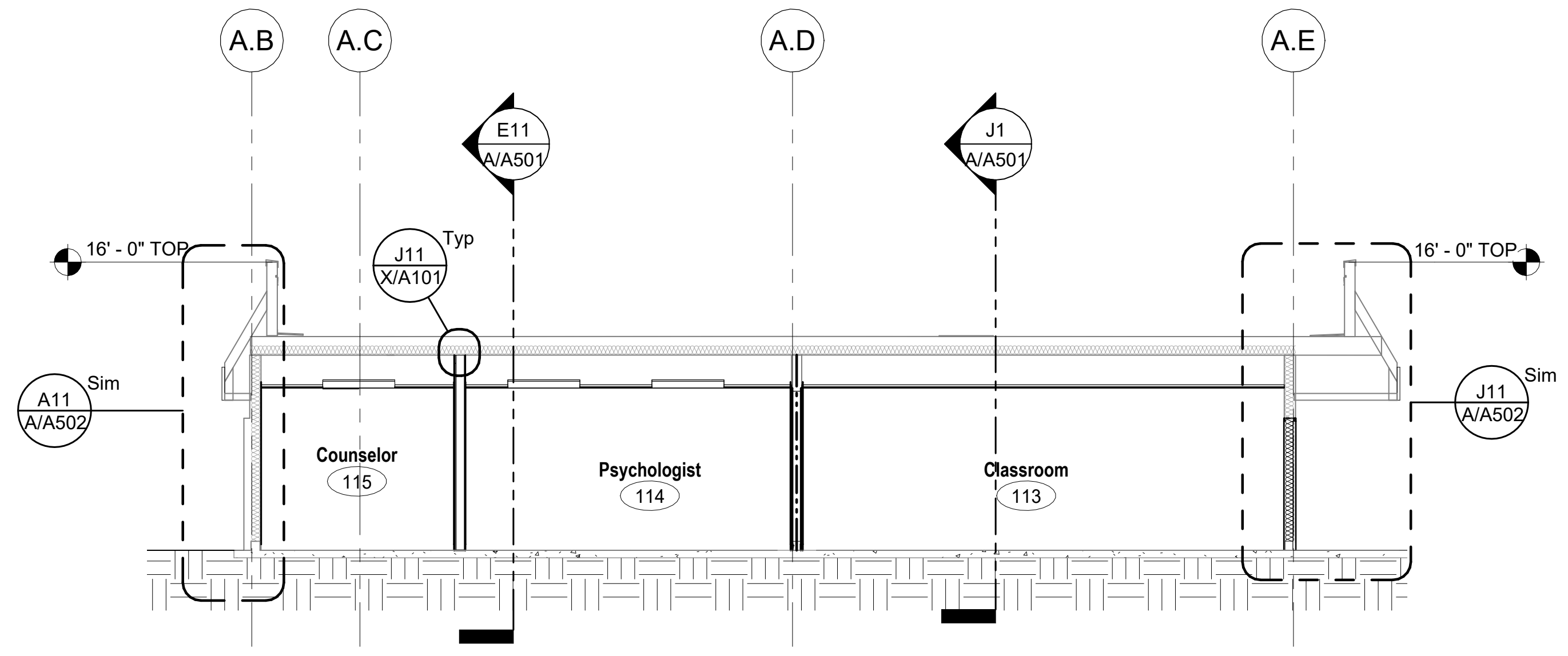


N1

1/8" = 1'-0"

Building Section

Refer to J18 for Legend Symbols, Abbreviations and Notes

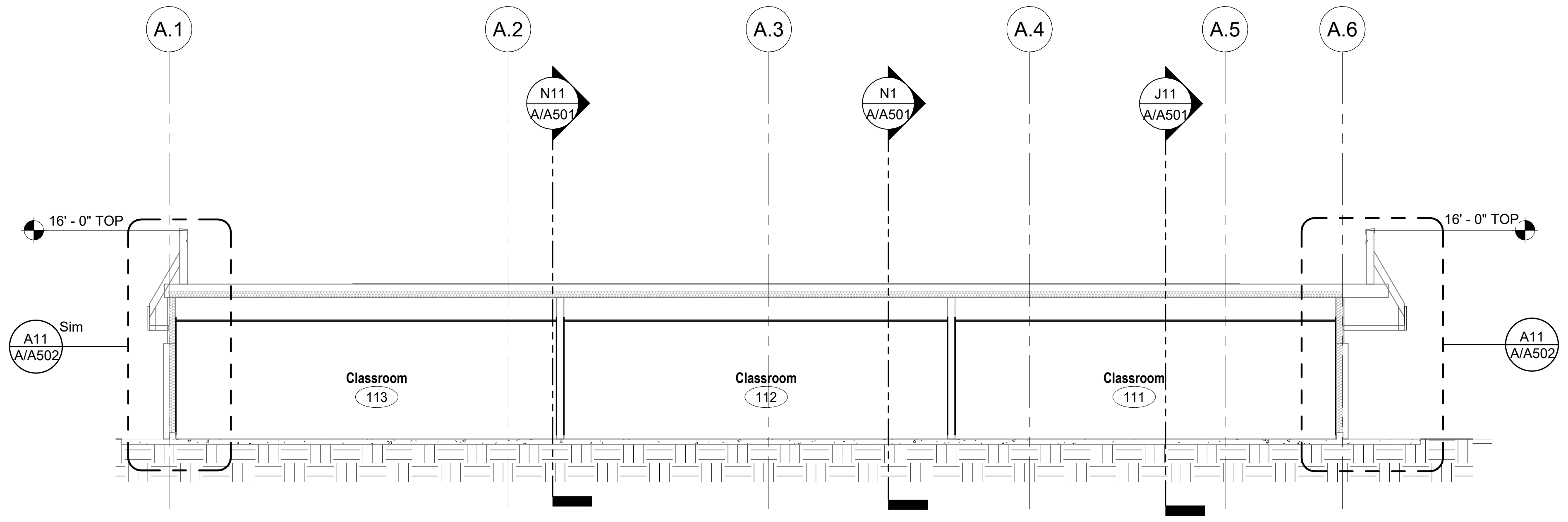


N11

1/8" = 1'-0"

Building Section

Refer to J18 for Legend Symbols, Abbreviations and Notes

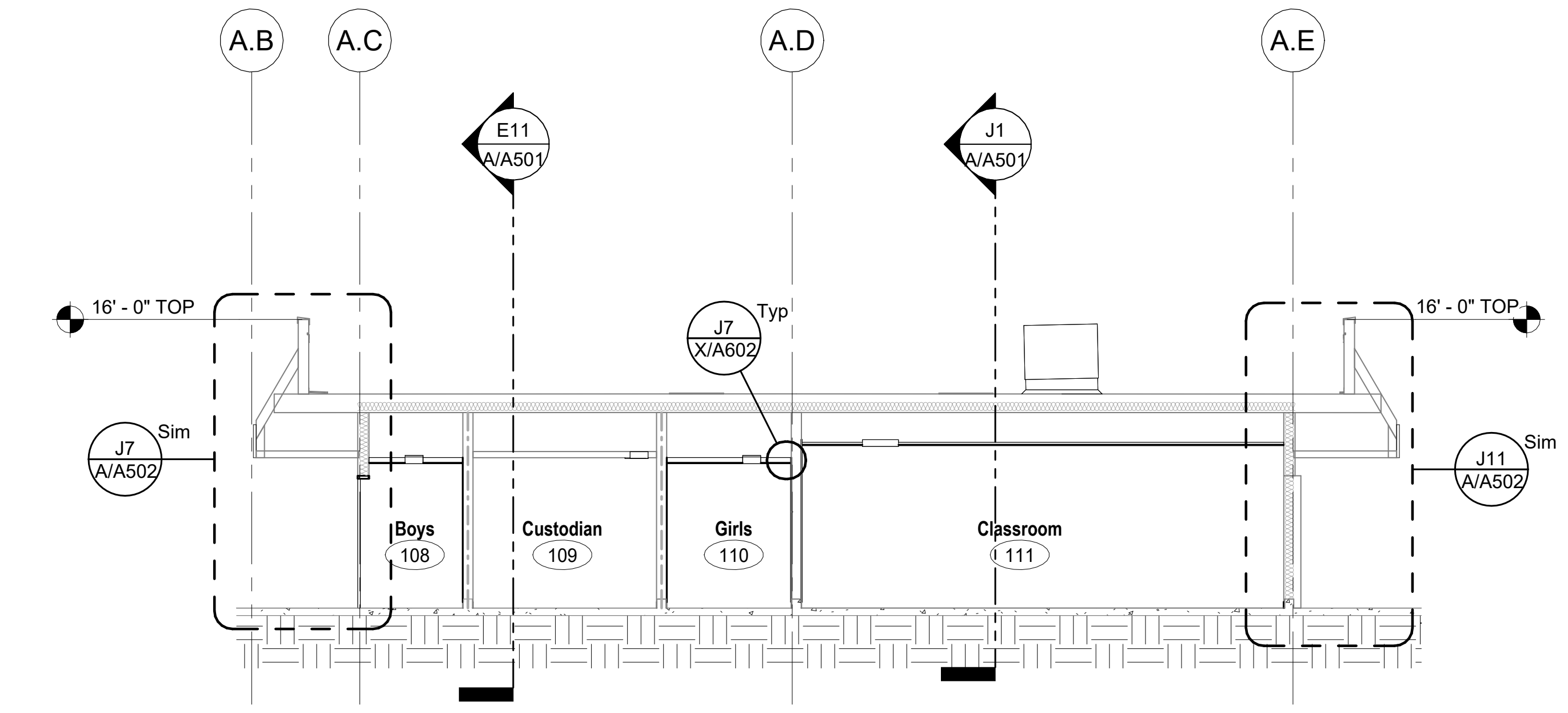


J1

1/8" = 1'-0"

Building Section

Refer to J18 for Legend Symbols, Abbreviations and Notes

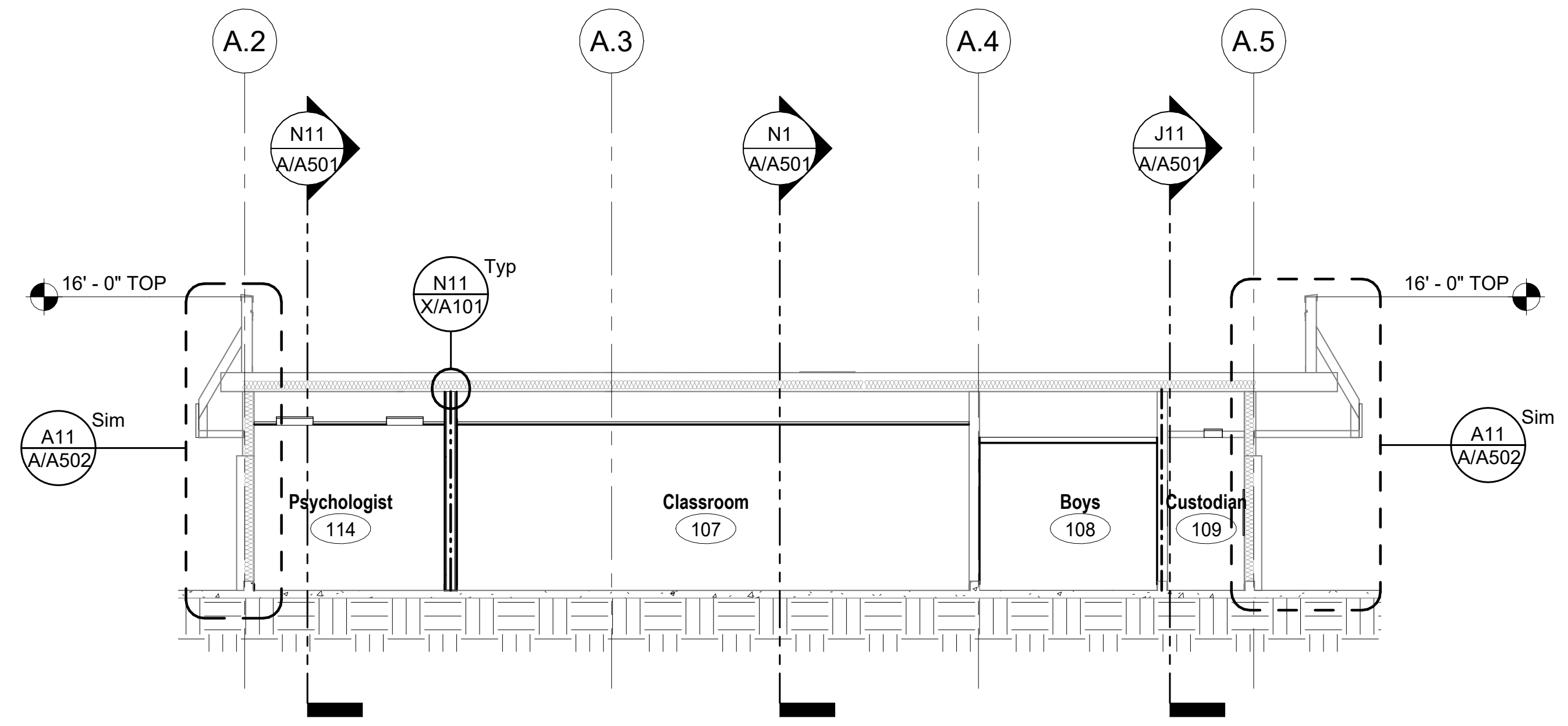


J11

1/8" = 1'-0"

Building Section

Refer to J18 for Legend Symbols, Abbreviations and Notes

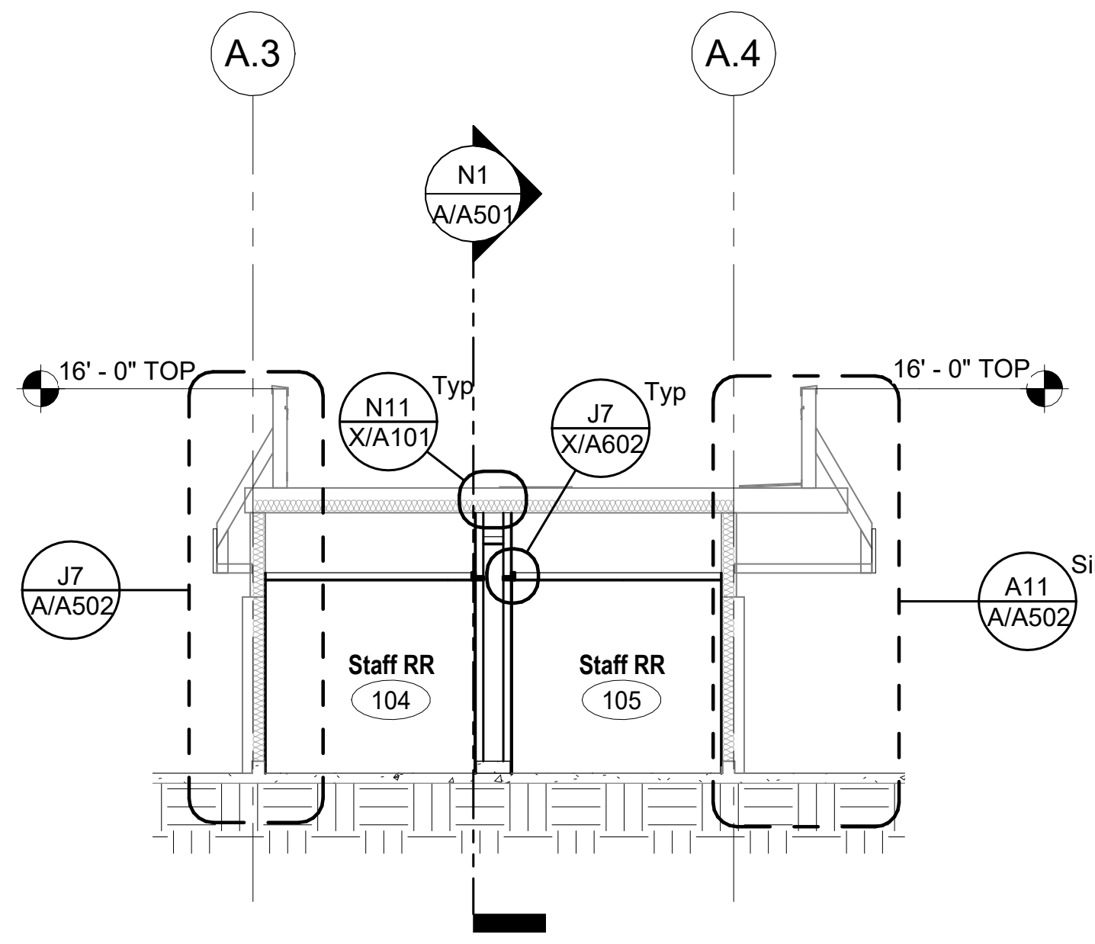


E11

1/8" = 1'-0"

Building Section

Refer to J18 for Legend Symbols, Abbreviations and Notes



A11

1/8" = 1'-0"

Building Section

Refer to J18 for Legend Symbols, Abbreviations and Notes

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

SYMBOLS

Room name 101	Room Designation
ᴥᴥᴥᴥᴥ	INSULATION, See Specifications for Insulation Type and location of installation. Thermal Blanket at all walls designated as Exterior Walls.
—··—··—	2 Hr. Fire Barrier - (2 Hr. Fire Resistive Construction)

ABBREVIATIONS

AFF	Above Finished Floor
BO	Bottom of
CJ	Control Joint
OH	Opposite Hand
Sim.	Similar
TO	Top of
TOM	Top of Masonry
TOP	Top of Parapet Framing
TOF	Top of Framing
TOS	Top of Steel
TPL	Top of Plate
Typ.	Typical
UNO	Unless Noted Otherwise

NOTES

1. FIRE RESISTIVE ASSEMBLIES:
   a. All Through Penetrations and Wall Membrane Penetrations through Walls of Fire Resistive Construction shall be protected in accordance with their Fire Resistive Ratings.

   b. All Walls of Fire and/or Smoke Resistive Construction Shall Be Permanently Identified with Signs or Stenciling in lettering not less than 3 inches (76 mm) in. height with a minimum 3/8 inch (9.5 mm) stroke in a contrasting color incorporating the following wording: FIRE AND/OR SMOKE BARRIER "#" HOUR RATED, PROTECT ALL OPENINGS, Signs or Stenciling shall be located above ceilings on both sides of the wall, located 15'-0" from ends of wall and at intervals not to exceed 30'-0" horizontally along the wall or partition. Note: "#" indicates the hourly rating of the wall or partition.
2. Refer to the following details for Rated Fire Wall to Floor or Roof Deck A11 X/A101 Typ
3. CEMENT PLASTER, Accessories, Refer to A14 X/A502 Typ

J18

No Scale

Sections Legend

Community Day School Modernization
Merced City School District
Merced, CA, 95340

Project

BUILDING A
BUILDING SECTIONS

Drawing

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LICENSED ARCHITECT
GRANT E. DODSON
No. C-20,307
Ren. 6-30-27
STATE OF CALIFORNIA

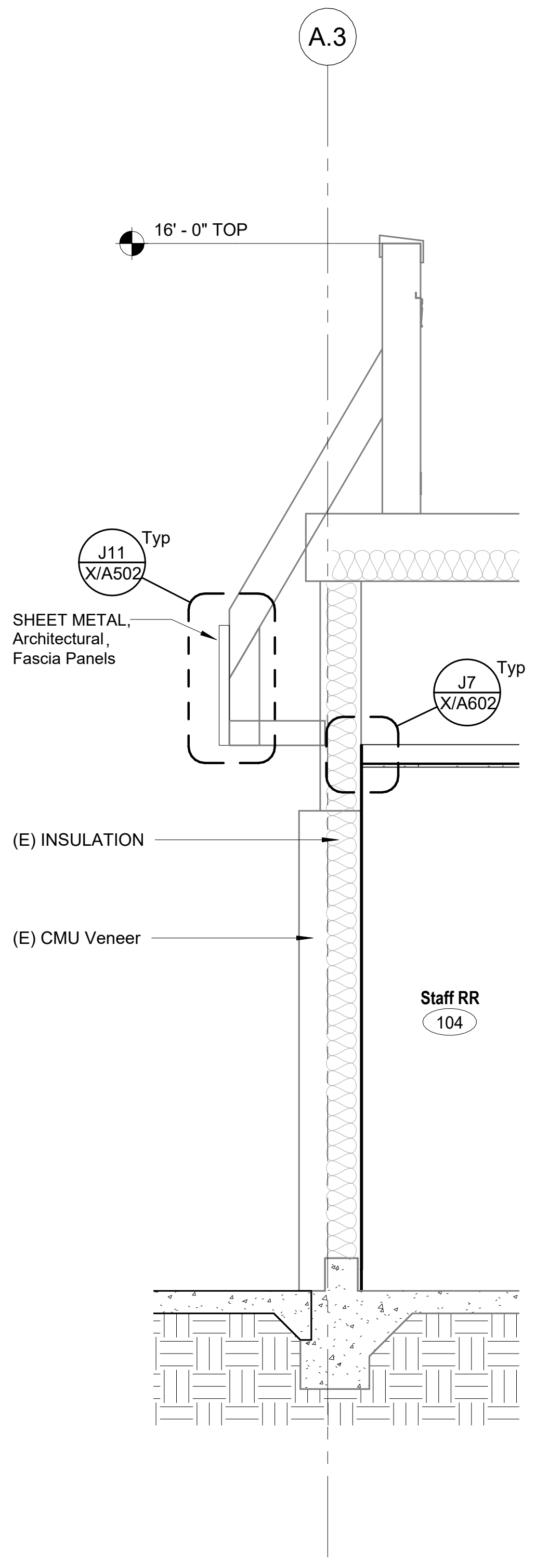
Architect

No.	Revision/Submission	Date

Revision

		Designed By:	-
Scale:	1/8" = 1'-0"	Drawn By:	-
Project Number:	2533	Checked By:	-
Date:	2/9/2026	Reviewed By:	-

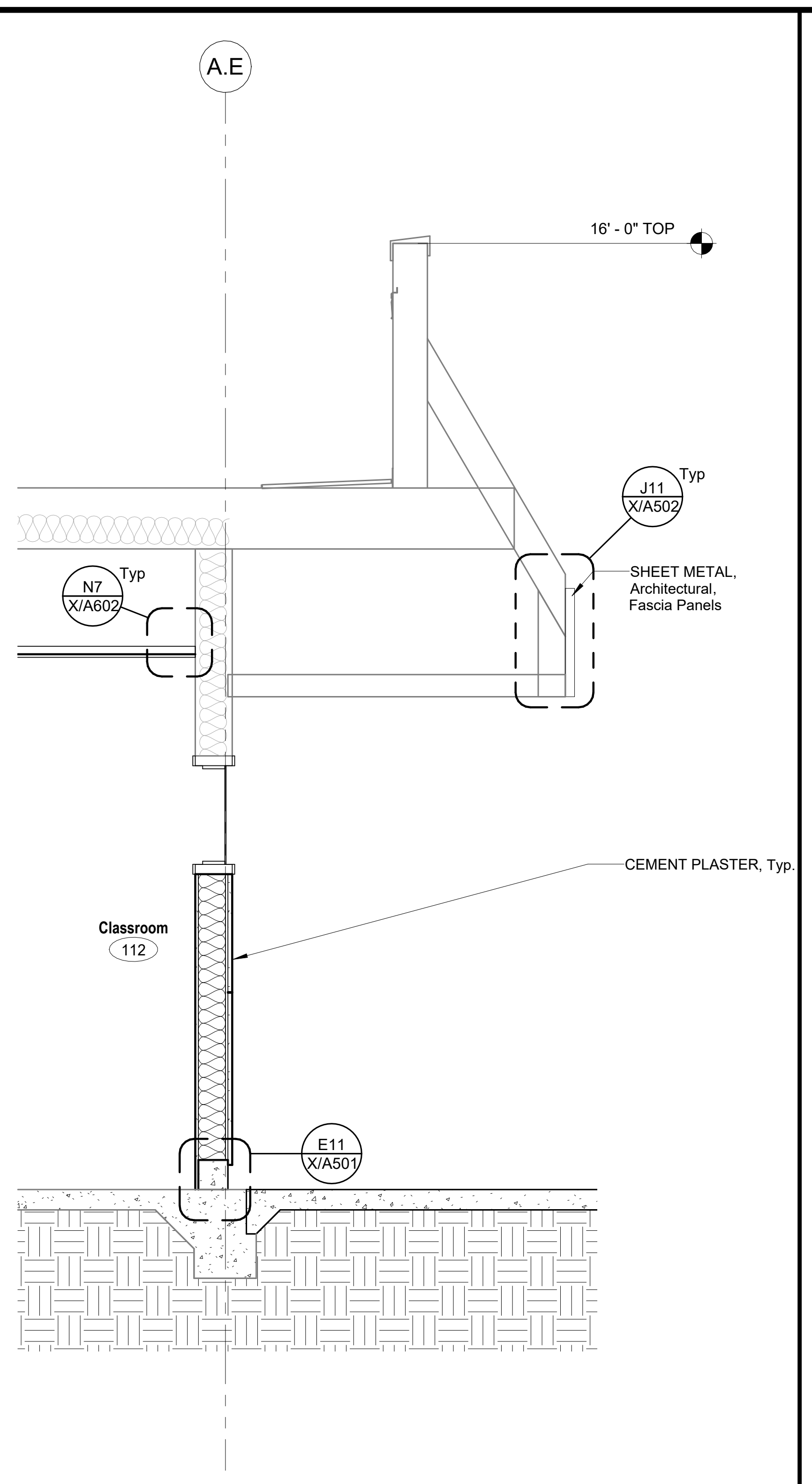
A/A501



J7 Wall Section

1/2" = 1'-0"

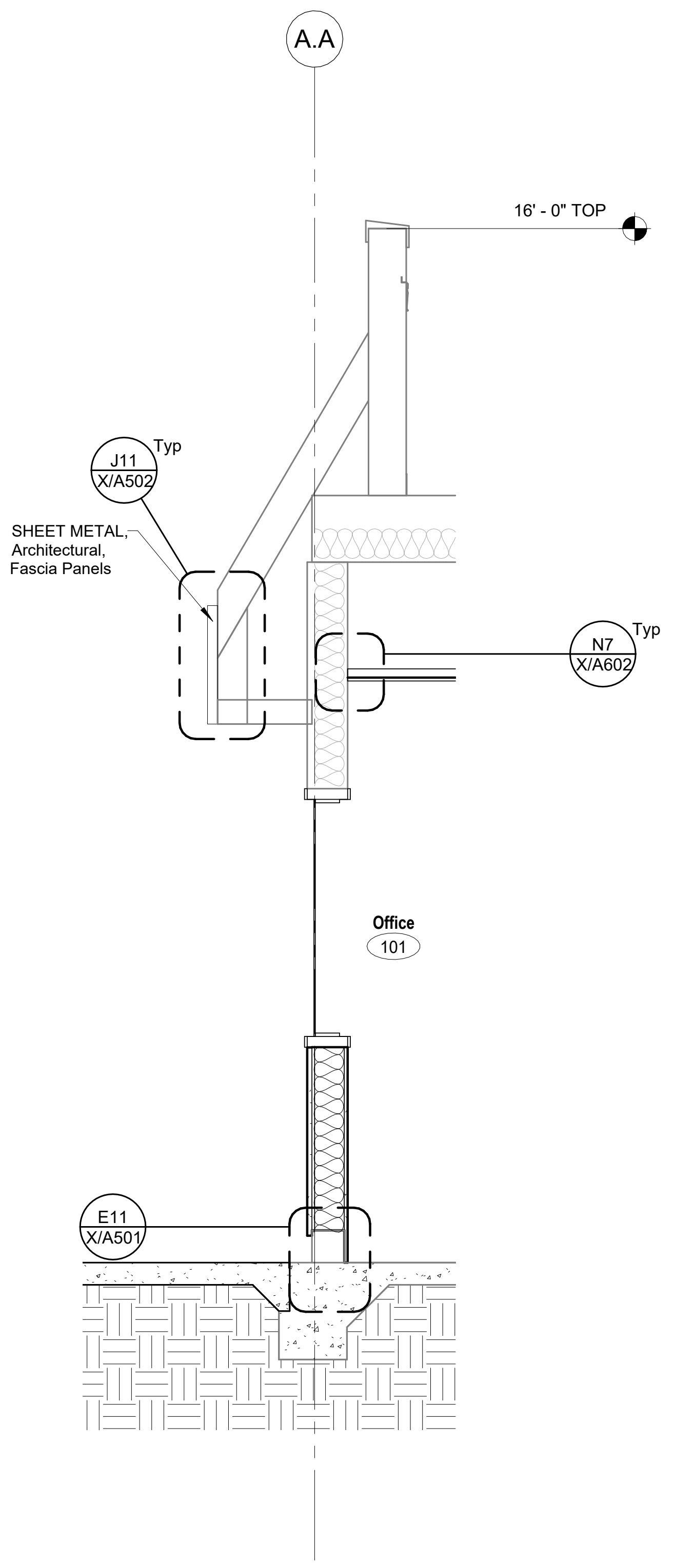
Refer to J18 for Legend Symbols, Abbreviations and Notes



J11 Wall Section

1/2" = 1'-0"

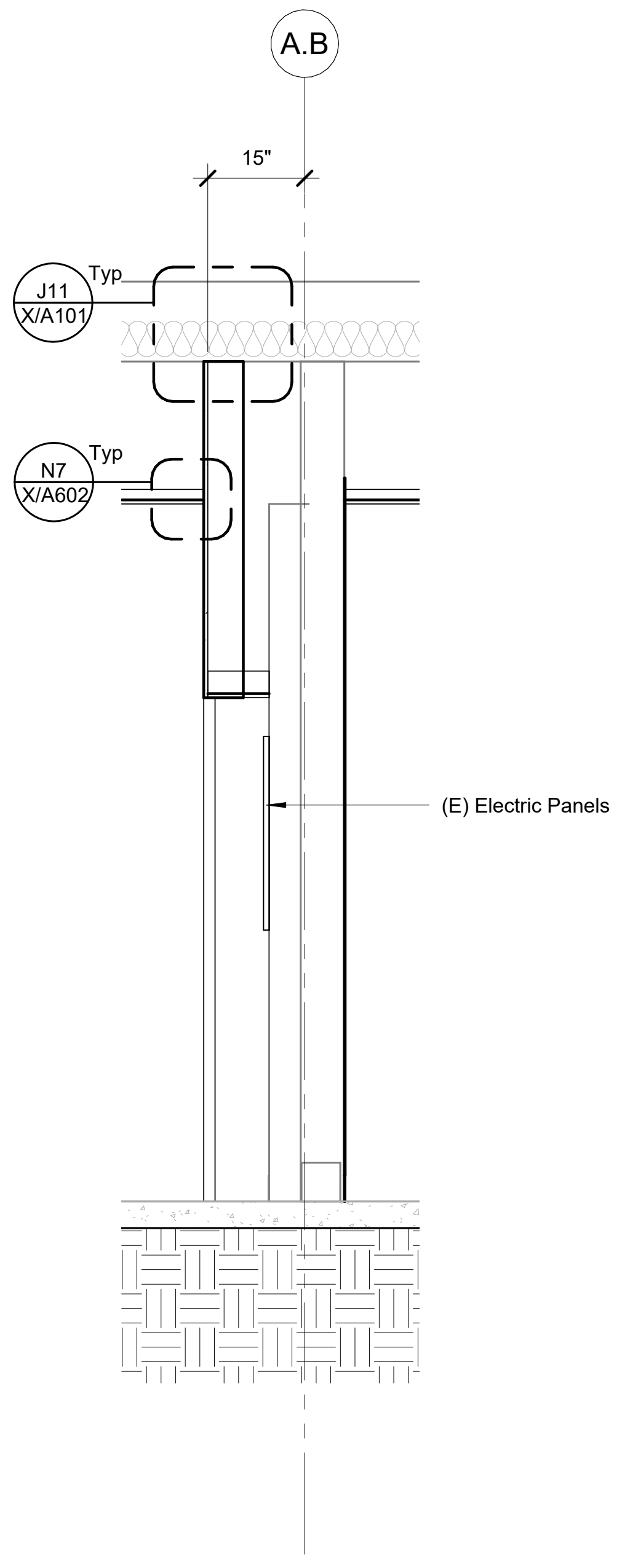
Refer to J18 for Legend Symbols, Abbreviations and Notes



J14 Wall Section

1/2" = 1'-0"

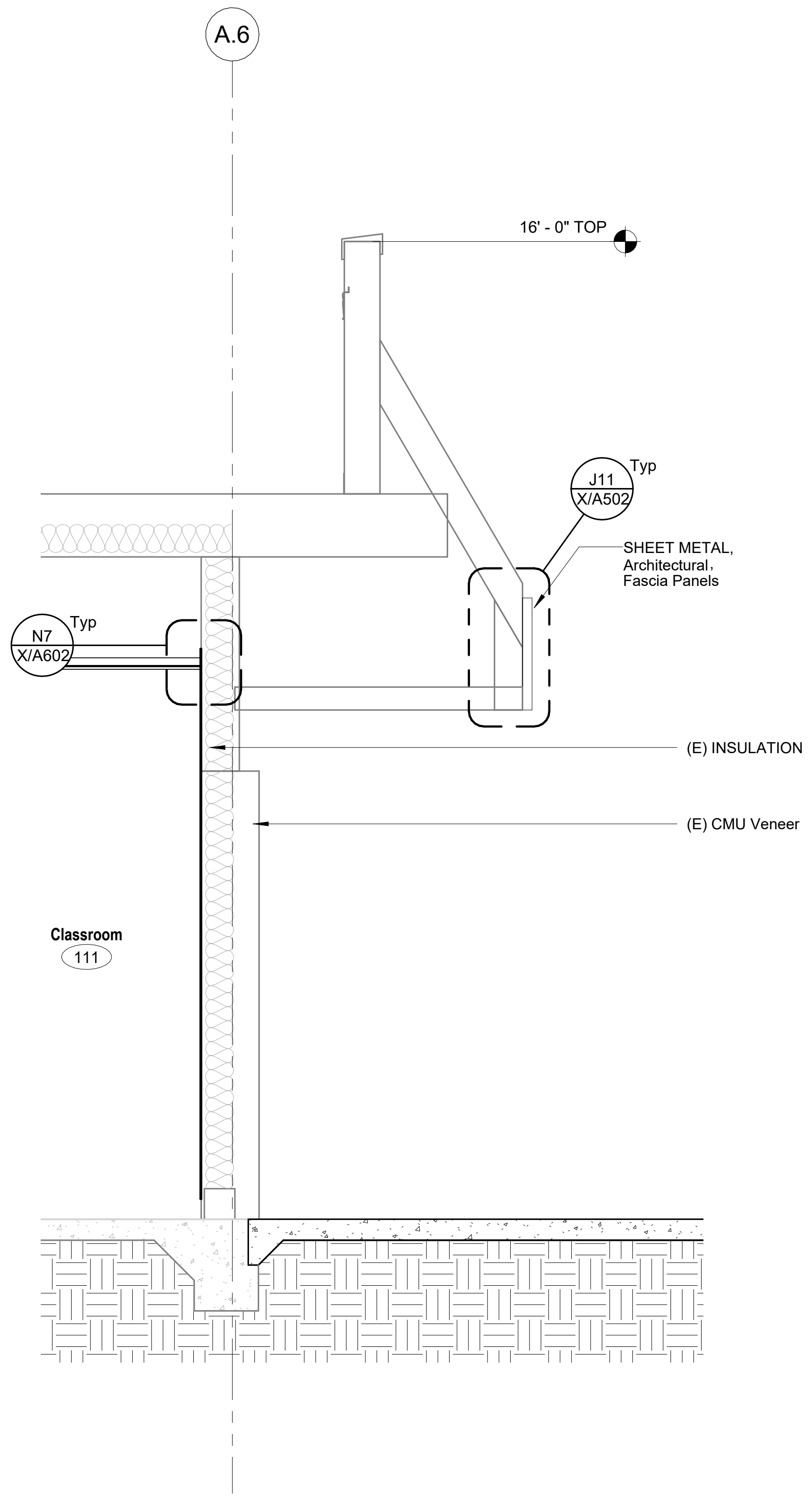
Refer to J18 for Legend Symbols, Abbreviations and Notes



A7 Wall Section

1/2" = 1'-0"

Refer to J18 for Legend Symbols, Abbreviations and Notes



A11 Wall Section

1/2" = 1'-0"

Refer to J18 for Legend Symbols, Abbreviations and Notes

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

SYMBOLS

Room name 101	Room Designation
▨	INSULATION, See Specifications for Insulation Type and location of installation. Thermal Blanket at all walls designated as Exterior Walls.
—··—··—	2 Hr. Fire Barrier - (2 Hr. Fire Resistive Construction)

ABBREVIATIONS

AFF	Above Finished Floor
BO	Bottom of
CJ	Control Joint
OH	Opposite Hand
Sim.	Similar
TO	Top of
TOM	Top of Masonry
TOP	Top of Parapet Framing
TOF	Top of Framing
TOS	Top of Steel
TPL	Top of Plate
Typ.	Typical
UNO	Unless Noted Otherwise

NOTES

1. FIRE RESISTIVE ASSEMBLIES:
   a. All Through Penetrations and Wall Membrane Penetrations through Walls of Fire Resistive Construction shall be protected in accordance with their Fire Resistive Ratings.

   b. All Walls of Fire and/or Smoke Resistive Construction Shall Be Permanently Identified with Signs or Stenciling in lettering not less than 3 inches (76 mm) in. height with a minimum 3/8 inch (9.5 mm) stroke in a contrasting color incorporating the following wording: FIRE AND/OR SMOKE BARRIER "#" HOUR RATED, PROTECT ALL OPENINGS, Signs or Stenciling shall be located above ceilings on both sides of the wall, located 15'-0" from ends of wall and at intervals not to exceed 30'-0" horizontally along the wall or partition. Note: "#" indicates the hourly rating of the wall or partition.
2. Refer to the following details for Rated Fire Wall to Floor or Roof Deck A11 X/A101 Typ
3. CEMENT PLASTER, Accessories, Refer to A14 X/A502 Typ

J18 Sections Legend

No Scale

Community Day School Modernization
Merced City School District
Merced, CA, 95340

Project

BUILDING A
WALL SECTIONS

Drawing

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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

Designed By: -

Scale: As indicated

Drawn By: -

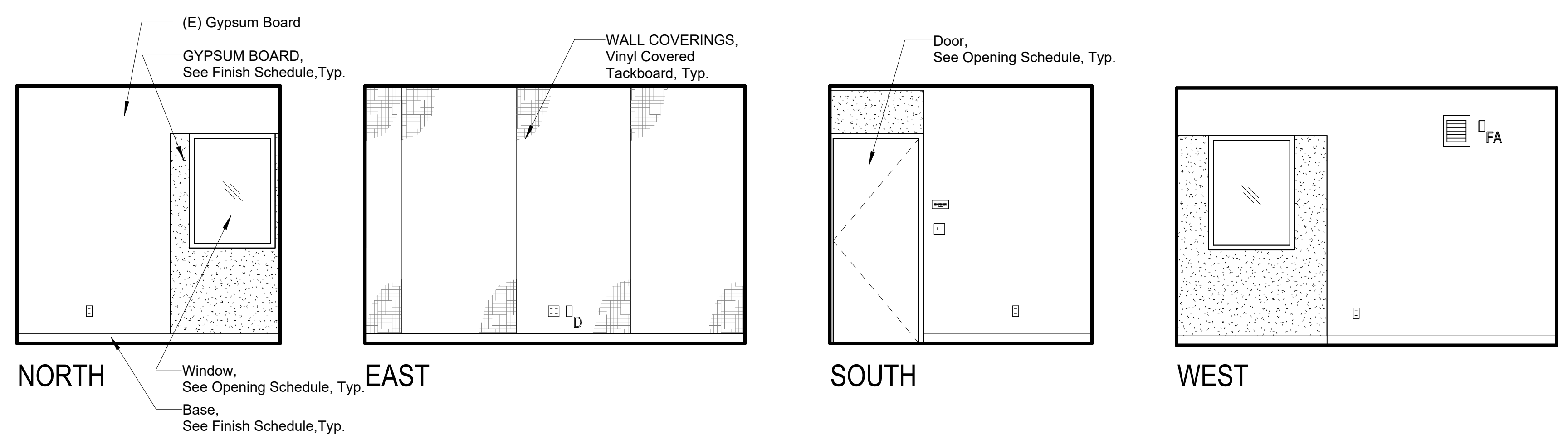
Project Number: 2533

Checked By: -

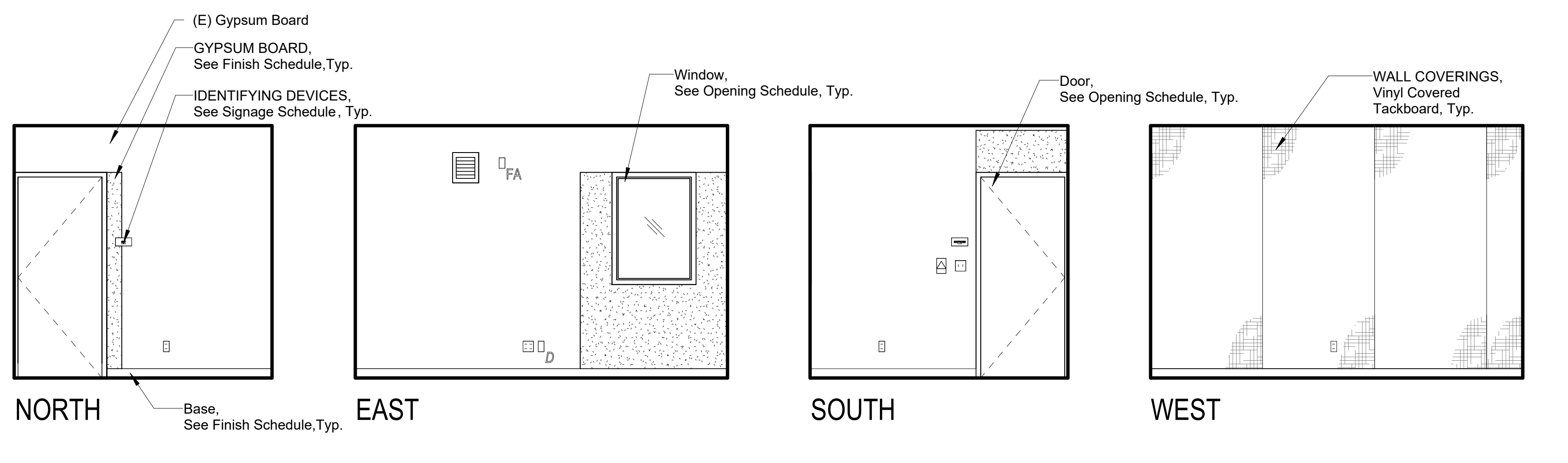
Date: 2/9/2026

Reviewed By: -

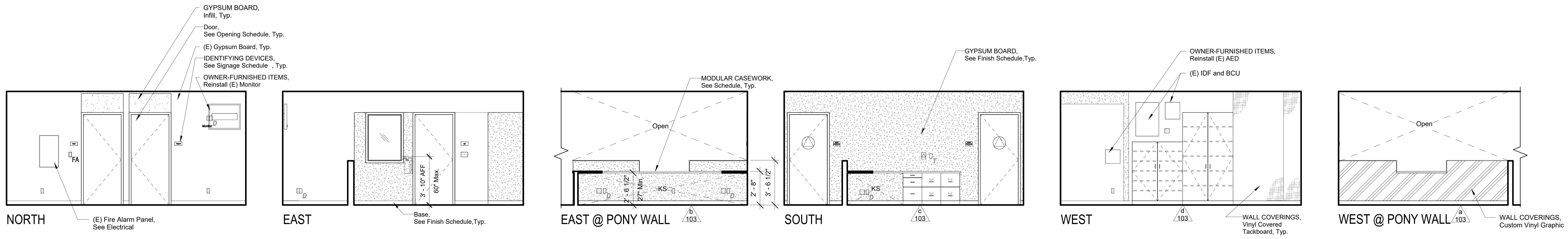
A/A502


(E) Gypsum Board
GYPSUM BOARD, See Finish Schedule,Typ.
WALL COVERINGS, Vinyl Covered Tackboard, Typ.
Door, See Opening Schedule, Typ.
FA
D
Window, See Opening Schedule, Typ.
Base, See Finish Schedule,Typ.
NORTH
EAST
SOUTH
WEST

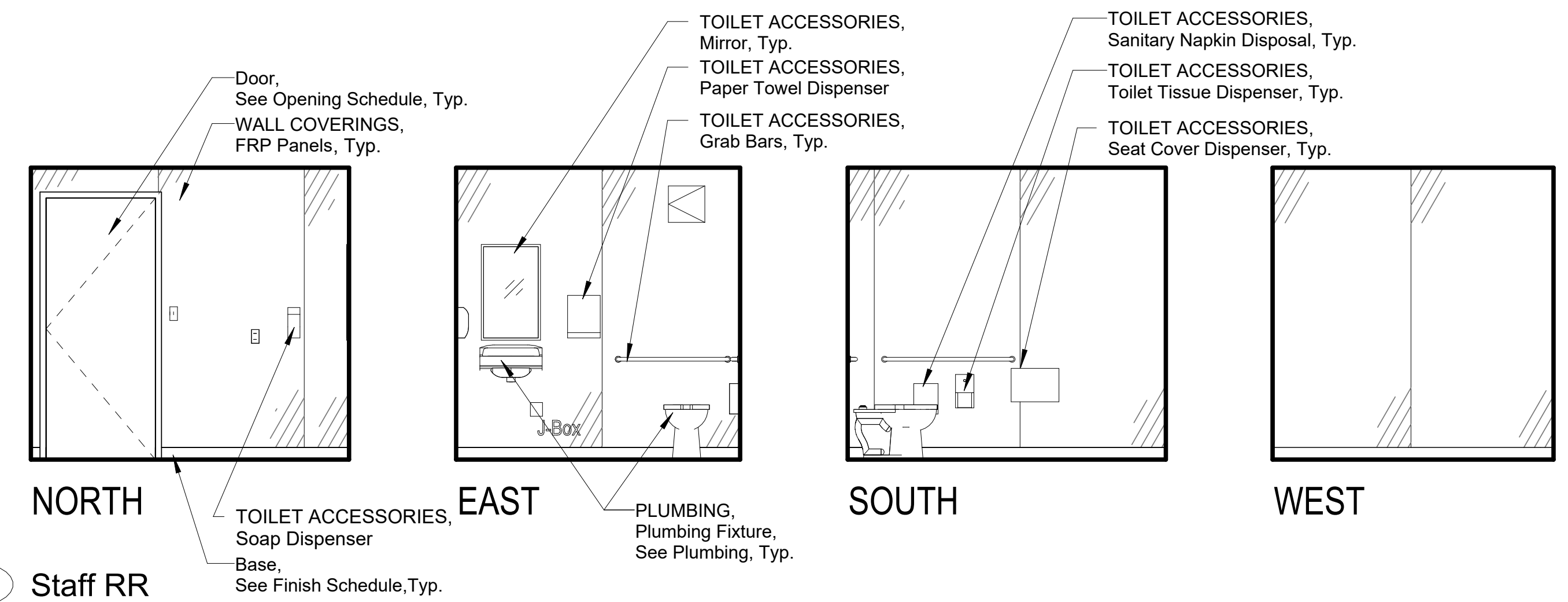
101 Office


(E) Gypsum Board
GYPSUM BOARD, See Finish Schedule,Typ.
IDENTIFYING DEVICES, See Signage Schedule , Typ.
Window, See Opening Schedule, Typ.
Door, See Opening Schedule, Typ.
WALL COVERINGS, Vinyl Covered Tackboard, Typ.
FA
D
Base, See Finish Schedule,Typ.
NORTH
EAST
SOUTH
WEST

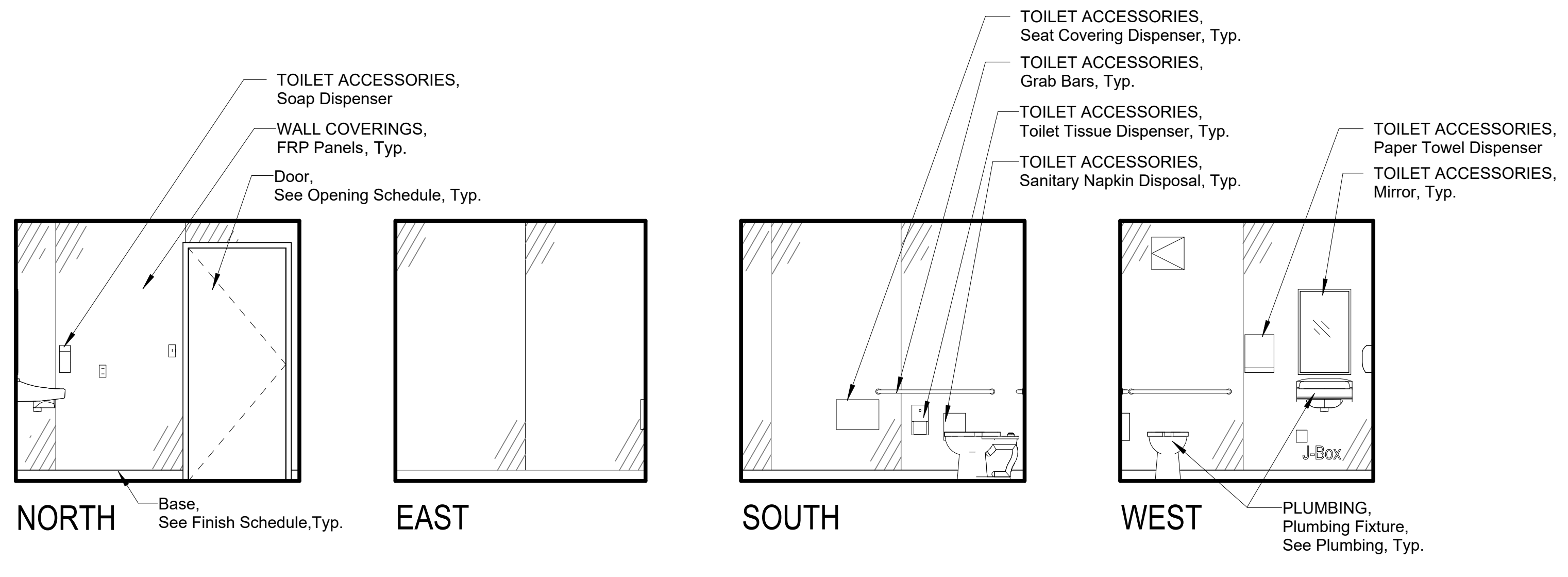
102 Director


GYPSUM BOARD, Infill, Typ.
Door, See Opening Schedule, Typ.
(E) Gypsum Board, Typ.
IDENTIFYING DEVICES, See Signage Schedule , Typ.
OWNER-FURNISHED ITEMS, Reinstall (E) Monitor
Monitor
FA
D
(E) Fire Alarm Panel, See Electrical
3' - 10" AFF
60" Max.
Base, See Finish Schedule,Typ.
MODULAR CASEWORK, See Schedule, Typ.
Open
KS
2' - 6 1/2"
27" Min.
2' - 8"
3' - 6 1/2"
b 103
GYPSUM BOARD, See Finish Schedule,Typ.
c 103
OWNER-FURNISHED ITEMS, Reinstall (E) AED
(E) IDF and BCU
d 103
WALL COVERINGS, Vinyl Covered Tackboard, Typ.
a 103
WALL COVERINGS, Custom Vinyl Graphic
NORTH
EAST
EAST @ PONY WALL
SOUTH
WEST
WEST @ PONY WALL

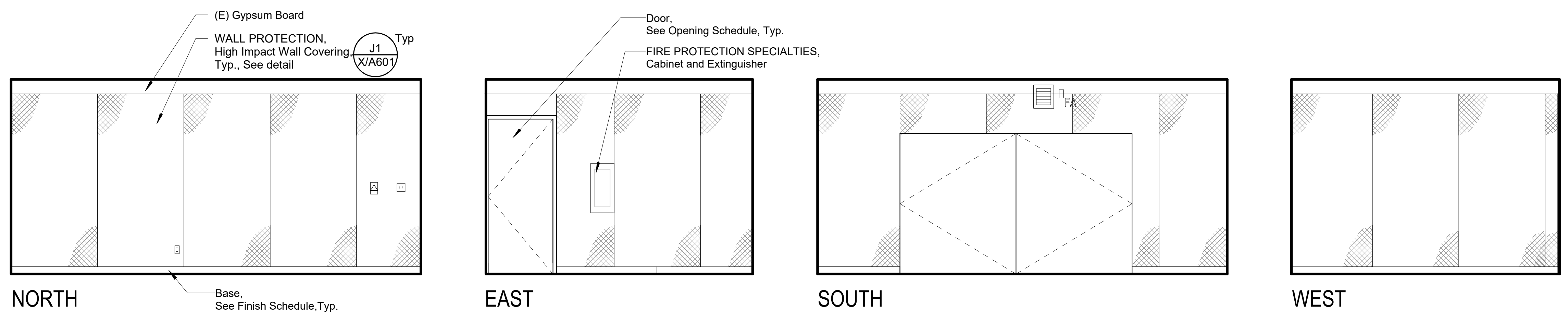
103 Reception


Door, See Opening Schedule, Typ.
WALL COVERINGS, FRP Panels, Typ.
TOILET ACCESSORIES, Mirror, Typ.
TOILET ACCESSORIES, Paper Towel Dispenser
TOILET ACCESSORIES, Grab Bars, Typ.
TOILET ACCESSORIES, Sanitary Napkin Disposal, Typ.
TOILET ACCESSORIES, Toilet Tissue Dispenser, Typ.
TOILET ACCESSORIES, Seat Cover Dispenser, Typ.
J-Box
TOILET ACCESSORIES, Soap Dispenser
Base, See Finish Schedule,Typ.
PLUMBING, Plumbing Fixture, See Plumbing, Typ.
NORTH
EAST
SOUTH
WEST

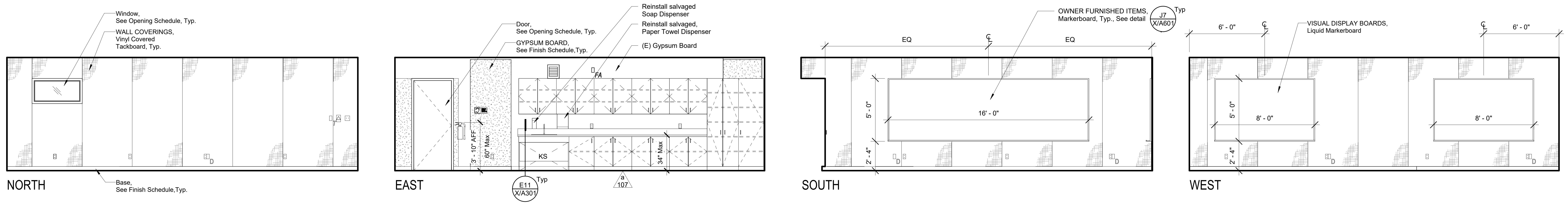
104 Staff RR


TOILET ACCESSORIES, Soap Dispenser
WALL COVERINGS, FRP Panels, Typ.
Door, See Opening Schedule, Typ.
TOILET ACCESSORIES, Seat Covering Dispenser, Typ.
TOILET ACCESSORIES, Grab Bars, Typ.
TOILET ACCESSORIES, Toilet Tissue Dispenser, Typ.
TOILET ACCESSORIES, Sanitary Napkin Disposal, Typ.
TOILET ACCESSORIES, Paper Towel Dispenser
TOILET ACCESSORIES, Mirror, Typ.
J-Box
Base, See Finish Schedule,Typ.
PLUMBING, Plumbing Fixture, See Plumbing, Typ.
NORTH
EAST
SOUTH
WEST

105 Staff RR


(E) Gypsum Board
WALL PROTECTION, High Impact Wall Covering, Typ., See detail
J1 X/A601 Typ
Door, See Opening Schedule, Typ.
FIRE PROTECTION SPECIALTIES, Cabinet and Extinguisher
FA
Base, See Finish Schedule,Typ.
NORTH
EAST
SOUTH
WEST

106 Calm Room


Window, See Opening Schedule, Typ.
WALL COVERINGS, Vinyl Covered Tackboard, Typ.
D
Base, See Finish Schedule,Typ.
Door, See Opening Schedule, Typ.
GYPSUM BOARD, See Finish Schedule,Typ.
Reinstall salvaged Soap Dispenser
Reinstall salvaged, Paper Towel Dispenser
(E) Gypsum Board
FA
3' - 10" AFF
60" Max
KS
34" Max
E11 X/A301 Typ
a 107
OWNER FURNISHED ITEMS, Markerboard, Typ., See detail
J7 X/A601 Typ
EQ
EQ
16' - 0"
5' - 0"
2' - 4"
6' - 0"
6' - 0"
VISUAL DISPLAY BOARDS, Liquid Markerboard
8' - 0"
8' - 0"
NORTH
EAST
SOUTH
WEST

107 Classroom

A1

Interior Elevations

1/4" = 1'-0"

Refer to F18 for Legend Symbols, Abbreviations and Notes

2/6/2026 11:28:45 AM
D:\Revit Local Files\2533_CDS_Mod_V24_BrandonhFXVM7.rvt

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

SYMBOLS

a ###	Cabinet Group No. Refer to Modular Casework Schedule and Lab Casework Schedule.
FEC	FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Top of Cabinet @ +5'-0", Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls A1 X/A601 Typ
▤	ELECTRICAL, Speaker @ +7'-6" to center of device, Unless Noted Otherwise.
◷	ELECTRICAL, Clock @ +7'-6" to center of device, Unless Noted Otherwise.
◷▤	ELECTRICAL, Clock/Speaker @ +7'-6" to center of device, Unless Noted Otherwise.
▯	ELECTRICAL, Outlet
▯	ELECTRICAL, Light Switch
▯FA	ELECTRICAL, Fire Alarm Device
▯D	ELECTRICAL, Data Outlet
△	ELECTRICAL, Telephone Outlet
▯T	MECHANICAL, Thermostat
†HB	PLUMBING, Hose Bib
▨	GYPSUM BOARD, Infill - or - GYPSUM BOARD, See Finish Schedule
☒	ACCESS DOORS AND FRAMES, Access Doors, Wall (24" X 24"), UNO

ABBREVIATIONS

Gl.	Glass
KS	Knee Space
OH	Opposite Hand
Typ.	Typical
Sim.	Similar
Dia.	Diameter
UNO	Unless Noted Otherwise

NOTES

1. All Details, Materials and Finishes shall be considered typical for all similar conditions Unless Noted Otherwise.
2. Refer to Plumbing, Mechanical, and Electrical for all wall mounted devices and coordinate location and heights with Architectural (ie. casework, equipment, etc.)
3. Locate and mount TOILET ACCESSORIES and PLUMBING per detail J11 X/A601 Typ Unless Noted Otherwise.
4. Provide backing at all TOILET ACCESSORIES, TOILET PARTITIONS, and IDENTIFYING DEVICES per detail N7 X/A601 Typ Unless Noted Otherwise.
5. Provide Backing for TOILET ACCESSORIES, Grab Bars per detail N11 X/A601 Typ
6. Locate and mount IDENTIFYING DEVICES per detail A11 X/A601 Typ Unless Noted Otherwise.
7. Provide backing at all MODULAR CASEWORK per detail N7 X/A601 Typ
8. Attach all MODULAR CASEWORK per details A4 X/A301 Typ A7 X/A301 Typ
9. WALL COVERINGS, Vinyl Covered Tackboard, See detail N14 X/A601 Typ
10. WALL COVERINGS, FRP Panels, See detail A7 X/A601 Typ
11. GYPSUM BOARD, Control Joints, See detail E7 X/A601 Typ
12. TOILET PARTITIONS, ANCHORAGE, See detail E1 X/A601

F18

Interior Elevation legend

No Scale

Community Day School Modernization
Merced City School District
Merced, CA, 95340

Project

BUILDING A
INTERIOR ELEVATIONS- ROOMS 101 - 107

Drawing

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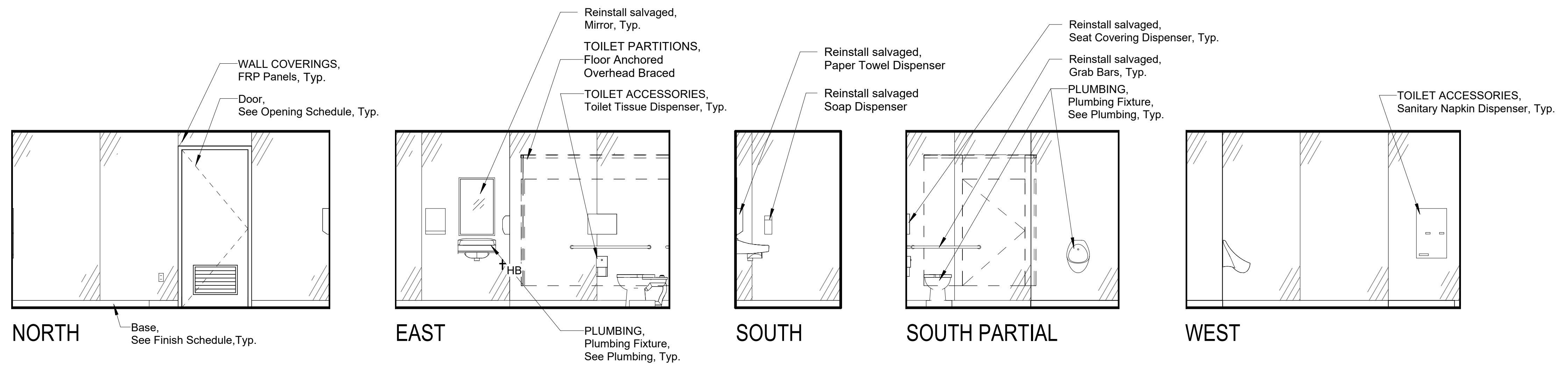
GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

Architect

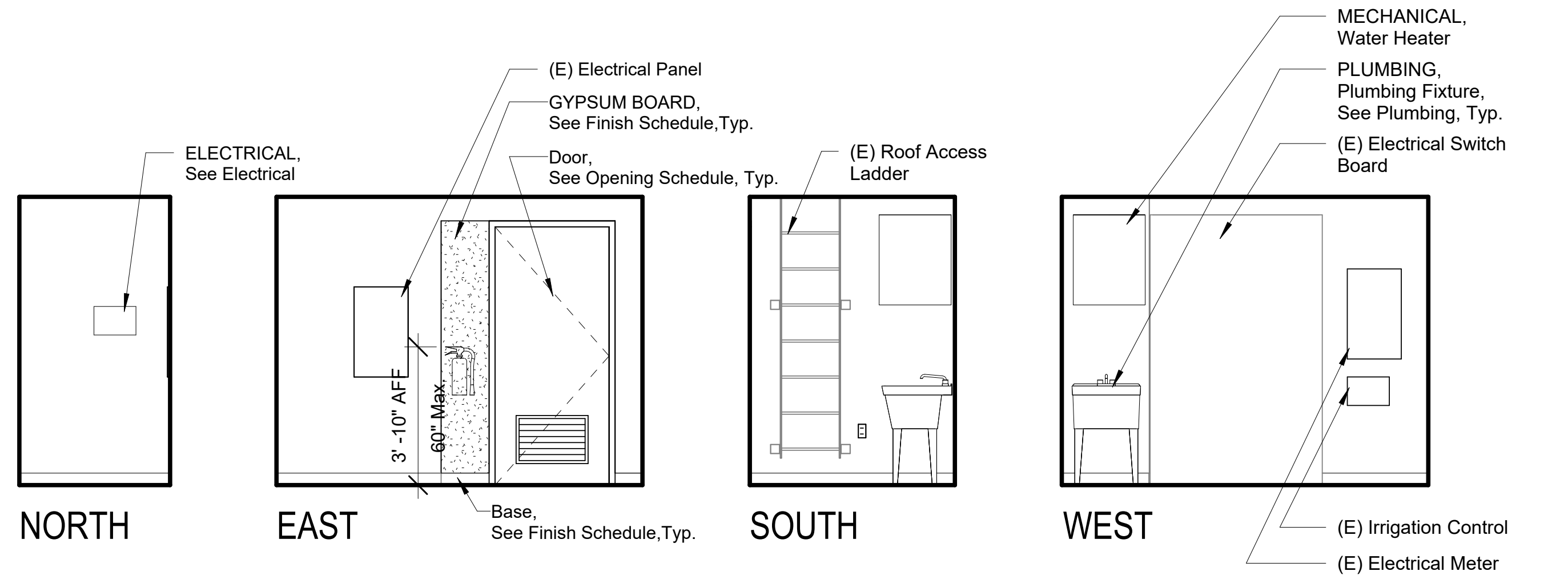
No.	Revision/Submission	Date

Revision

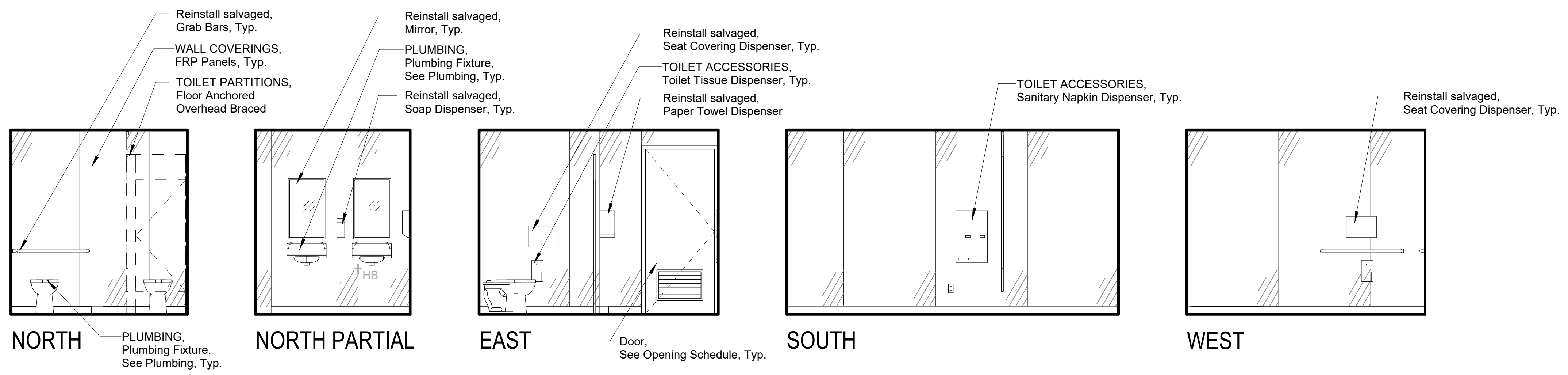
	Designed By: -	
Scale: 1/4" = 1'-0"	Drawn By: -	A/A601
Project Number: 2533	Checked By: -	
Date: 2/9/2026	Reviewed By: -	



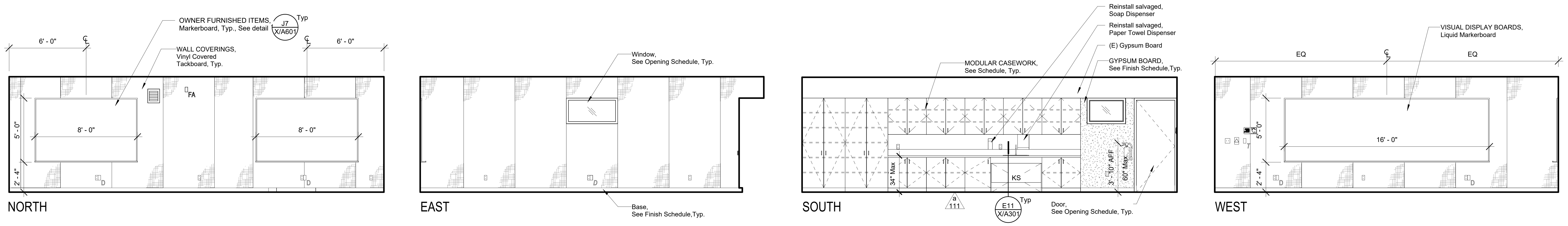
108 Boys



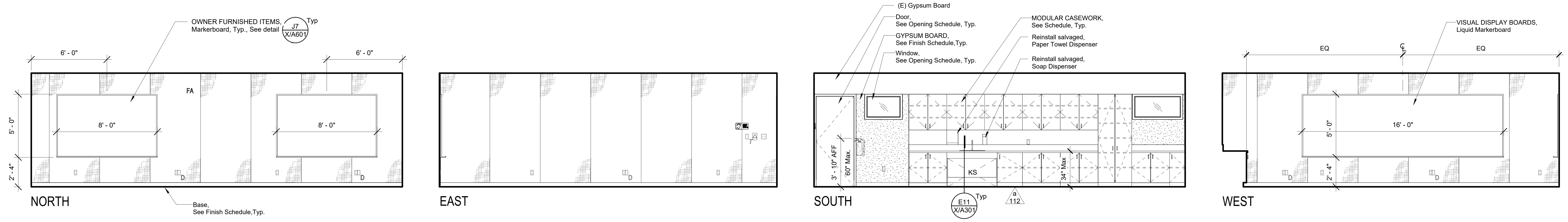
109 Custodian



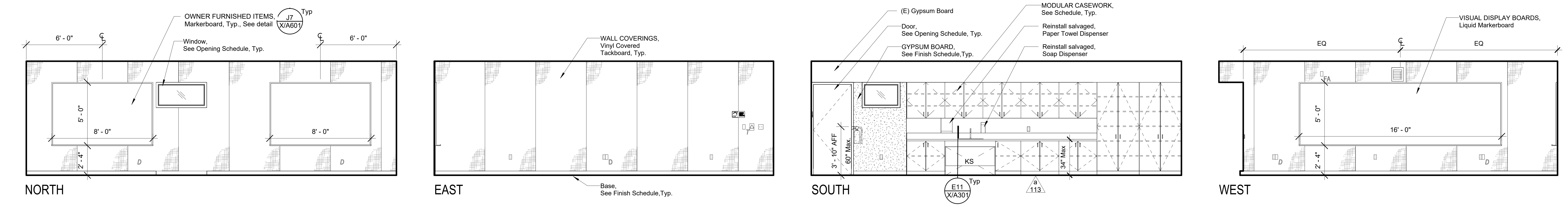
110 Girls



111 Classroom



112 Classroom



113 Classroom

A1 Interior Elevations

1/4" = 1'-0"

Refer to F18 for Legend Symbols, Abbreviations and Notes

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DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

SYMBOLS

a / ###	Cabinet Group No. Refer to Modular Casework Schedule and Lab Casework Schedule.
▯ FEC	FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Top of Cabinet @ +5'-0", Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls (A1 X/A601 Typ)
▤	ELECTRICAL, Speaker @ +7'-6" to center of device, Unless Noted Otherwise.
◯	ELECTRICAL, Clock @ +7'-6" to center of device, Unless Noted Otherwise.
◯▤	ELECTRICAL, Clock/Speaker @ +7'-6" to center of device, Unless Noted Otherwise.
▯	ELECTRICAL, Outlet
▯	ELECTRICAL, Light Switch
▯FA	ELECTRICAL, Fire Alarm Device
▯D	ELECTRICAL, Data Outlet
△	ELECTRICAL, Telephone Outlet
▯T	MECHANICAL, Thermostat
+HB	PLUMBING, Hose Bib
▨	GYPSUM BOARD, Infill - or - GYPSUM BOARD, See Finish Schedule
▽	ACCESS DOORS AND FRAMES, Access Doors, Wall (24" X 24"), UNO

ABBREVIATIONS

Gl.	Glass
KS	Knee Space
OH	Opposite Hand
Typ.	Typical
Sim.	Similar
Dia.	Diameter
UNO	Unless Noted Otherwise

NOTES

1. All Details, Materials and Finishes shall be considered typical for all similar conditions Unless Noted Otherwise.
2. Refer to Plumbing, Mechanical, and Electrical for all wall mounted devices and coordinate location and heights with Architectural (ie. casework, equipment, etc.)
3. Locate and mount TOILET ACCESSORIES and PLUMBING per detail J11 X/A601 Typ Unless Noted Otherwise.
4. Provide backing at all TOILET ACCESSORIES, TOILET PARTITIONS, and IDENTIFYING DEVICES per detail N7 X/A601 Typ Unless Noted Otherwise.
5. Provide Backing for TOILET ACCESSORIES, Grab Bars per detail N11 X/A601 Typ
6. Locate and mount IDENTIFYING DEVICES per detail A11 X/A601 Typ Unless Noted Otherwise.
7. Provide backing at all MODULAR CASEWORK per detail N7 X/A601 Typ
8. Attach all MODULAR CASEWORK per details A4 X/A301 Typ A7 X/A301 Typ
9. WALL COVERINGS, Vinyl Covered Tackboard, See detail N14 X/A601 Typ
10. WALL COVERINGS, FRP Panels, See detail A7 X/A601 Typ
11. GYPSUM BOARD, Control Joints, See detail E7 X/A601 Typ
12. TOILET PARTITIONS, ANCHORAGE, See detail E1 X/A601

F18 Interior Elevation legend

No Scale

Community Day School Modernization
Merced City School District
Merced, CA, 95340

Project

BUILDING A
INTERIOR ELEVATIONS- ROOMS 108 - 113

Drawing

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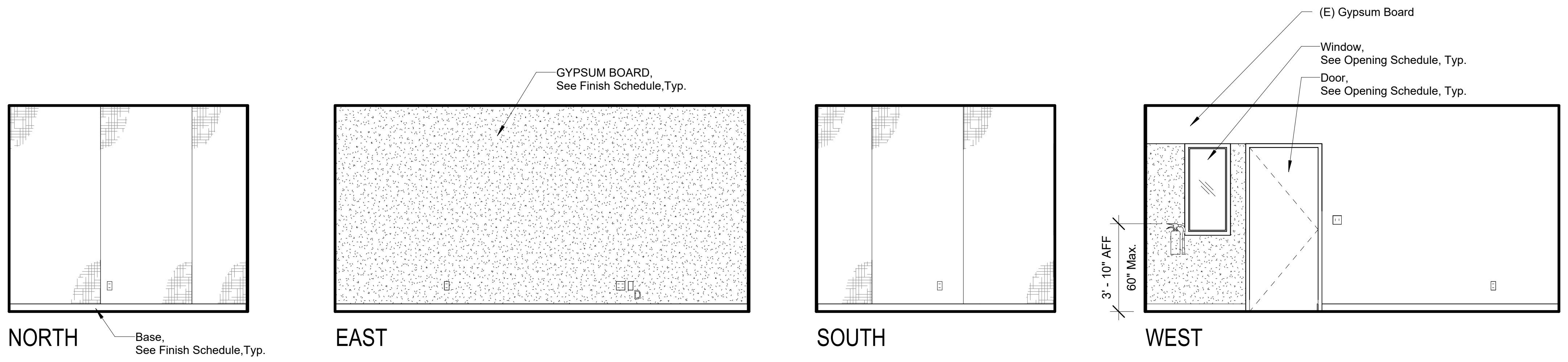
GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

Architect

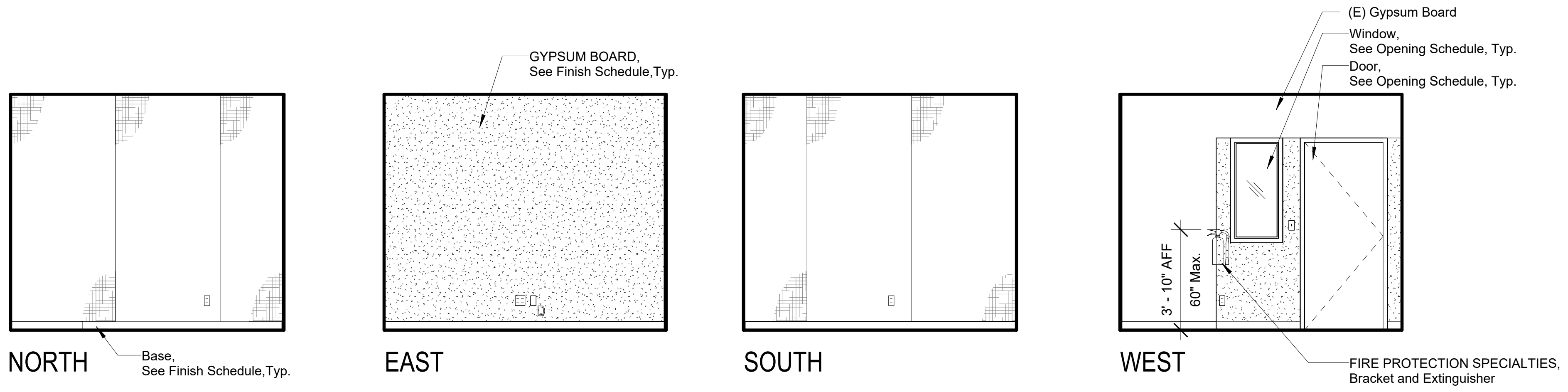
No.	Revision/Submission	Date

Revision

	Designed By: -	
Scale: 1/4" = 1'-0"	Drawn By: -	A/A602
Project Number: 2533	Checked By: -	
Date: 2/9/2026	Reviewed By: -	



114 Psychologist



115 Counselor

A1 Interior Elevations
1/4" = 1'-0"
Refer to F18 for Legend Symbols, Abbreviations and Notes

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

SYMBOLS

a ###	Cabinet Group No. Refer to Modular Casework Schedule and Lab Casework Schedule.
▯ FEC	FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Top of Cabinet @ +5'-0", Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls A1 X/A601 Typ
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◷▤	ELECTRICAL, Clock/Speaker @ +7'-6" to center of device, Unless Noted Otherwise.
▯	ELECTRICAL, Outlet
▯	ELECTRICAL, Light Switch
▯ FA	ELECTRICAL, Fire Alarm Device
▯ D	ELECTRICAL, Data Outlet
△	ELECTRICAL, Telephone Outlet
▯ T	MECHANICAL, Thermostat
† HB	PLUMBING, Hose Bib
▨	GYPSUM BOARD, Infill - or - GYPSUM BOARD, See Finish Schedule
⊠	ACCESS DOORS AND FRAMES, Access Doors, Wall (24" X 24"), UNO

ABBREVIATIONS

Gl.	Glass
KS	Knee Space
OH	Opposite Hand
Typ.	Typical
Sim.	Similar
Dia.	Diameter
UNO	Unless Noted Otherwise

NOTES

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3. Locate and mount TOILET ACCESSORIES and PLUMBING per detail J11 X/A601 Typ Unless Noted Otherwise.
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8. Attach all MODULAR CASEWORK per details A4 X/A301 Typ A7 X/A301 Typ
9. WALL COVERINGS, Vinyl Covered Tackboard, See detail N14 X/A601 Typ
10. WALL COVERINGS, FRP Panels, See detail A7 X/A601 Typ
11. GYPSUM BOARD, Control Joints, See detail E7 X/A601 Typ
12. TOILET PARTITIONS, ANCHORAGE, See detail E1 X/A601

F18 Interior Elevation legend
No Scale

Community Day School Modernization
Merced City School District
Merced, CA, 95340
Project

BUILDING A
INTERIOR ELEVATIONS- ROOMS 114 - 115
Drawing

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No. C-20,307
Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

	Designed By: -	Copyright 2026 Darden Architects
Scale: 1/4" = 1'-0"	Drawn By: -	A/A603
Project Number: 2533	Checked By: -	
Date: 2/9/2026	Reviewed By: -	

2/6/2026 11:28:54 AM
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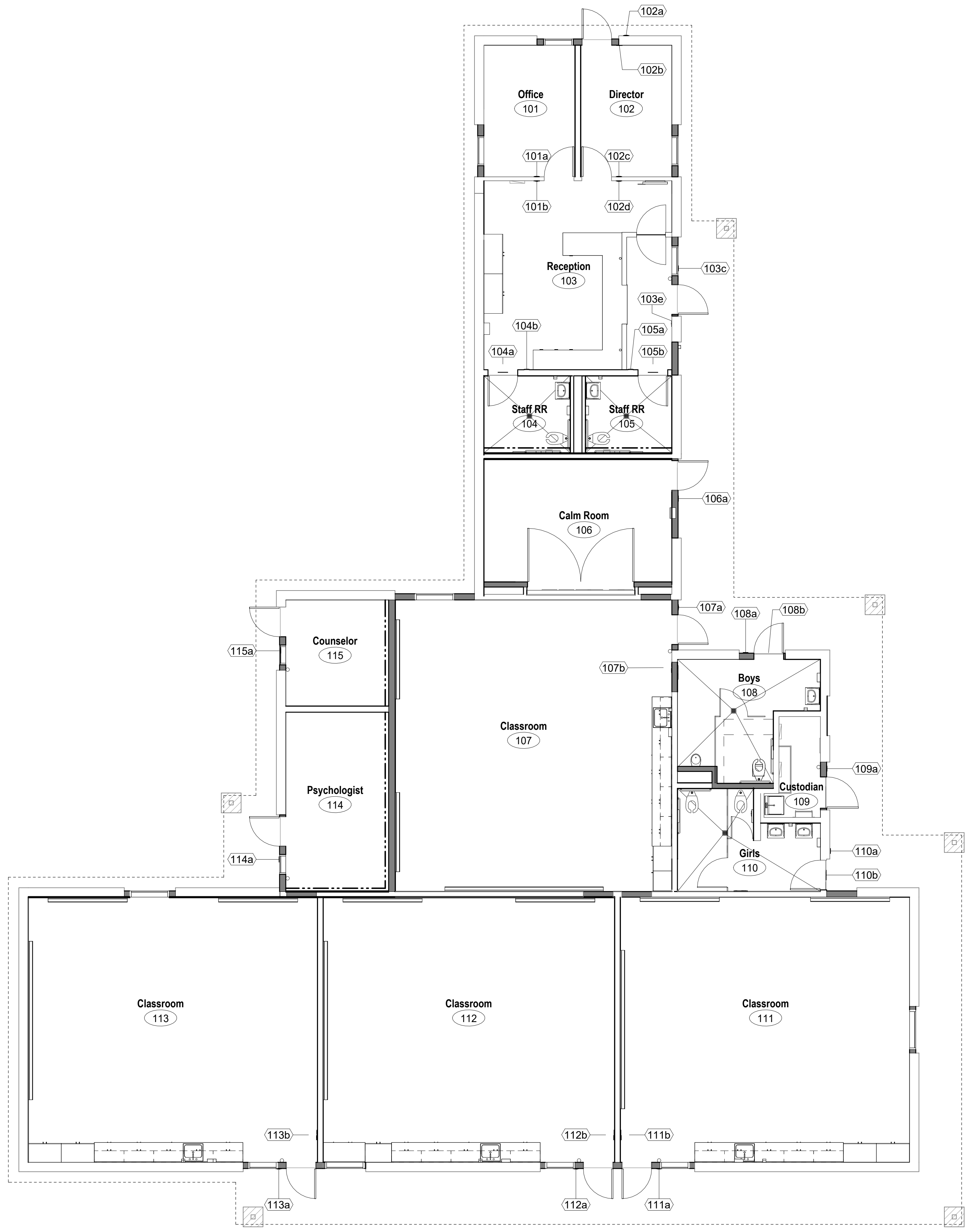
Signage Schedule

Sign Mark	Sign Type	Sign Material	Sign Copy Line 1	Sign Copy Line 2	Mtg Height	Mtg Cond	Remarks
101a	6a	A	RECEPTION	-	4' - 11"	2	-
101b	6a	A	OFFICE	-	4' - 11"	2	-
102a	6a	A	DIRECTOR	-	4' - 11"	3	-
102b	6a	A	EXIT	-	4' - 11"	2	-
102c	6a	A	RECEPTION	-	4' - 11"	2	-
102d	6a	A	DIRECTOR	-	4' - 11"	2	-
103c	6a	A	RECEPTION	-	4' - 11"	4	-
103e	6a	A	EXIT	-	4' - 11"	2	-
104a	2d	A	-	-	4' - 11"	5	-
104b	2a	A	STAFF	RESTROOM	4' - 11"	2	-
105a	2a	A	STAFF	RESTROOM	4' - 11"	2	-
105b	2d	A	-	-	4' - 11"	5	-
106a	6a	A	CALM ROOM	-	4' - 11"	2	-
107a	5a	A	107	-	4' - 11"	2	-
107b	4a	A	PLEASE ASK	-	4' - 11"	2	-
108a	2a	A	BOYS	RESTROOM	4' - 11"	2	-
108b	2c	A	-	-	4' - 11"	5	-
109a	6a	A	CUSTODIAN	-	4' - 11"	2	-
110a	2a	A	GIRLS	RESTROOM	4' - 11"	3	-
110b	2b	A	-	-	4' - 11"	5	-
111a	5a	A	111	-	4' - 11"	2	-
111b	4a	A	PLEASE ASK	-	4' - 11"	2	-
112a	5a	A	112	-	4' - 11"	2	-
112b	4a	A	PLEASE ASK	-	4' - 11"	2	-
113a	5a	A	113	-	4' - 11"	2	-
113b	4a	A	PLEASE ASK	-	4' - 11"	2	-
114a	6c	A	PSYCHOLOGIST	-	4' - 11"	4	-
115a	6a	A	COUNSELOR	-	4' - 11"	4	-

M7
Signage Schedule
N.T.S.
Refer to G18 for Schedule Legend



A7
Signage Floor Plan
1/8" = 1'-0"
Refer to M7-A/A701 for Signage Schedule

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

MOUNTING CONDITION

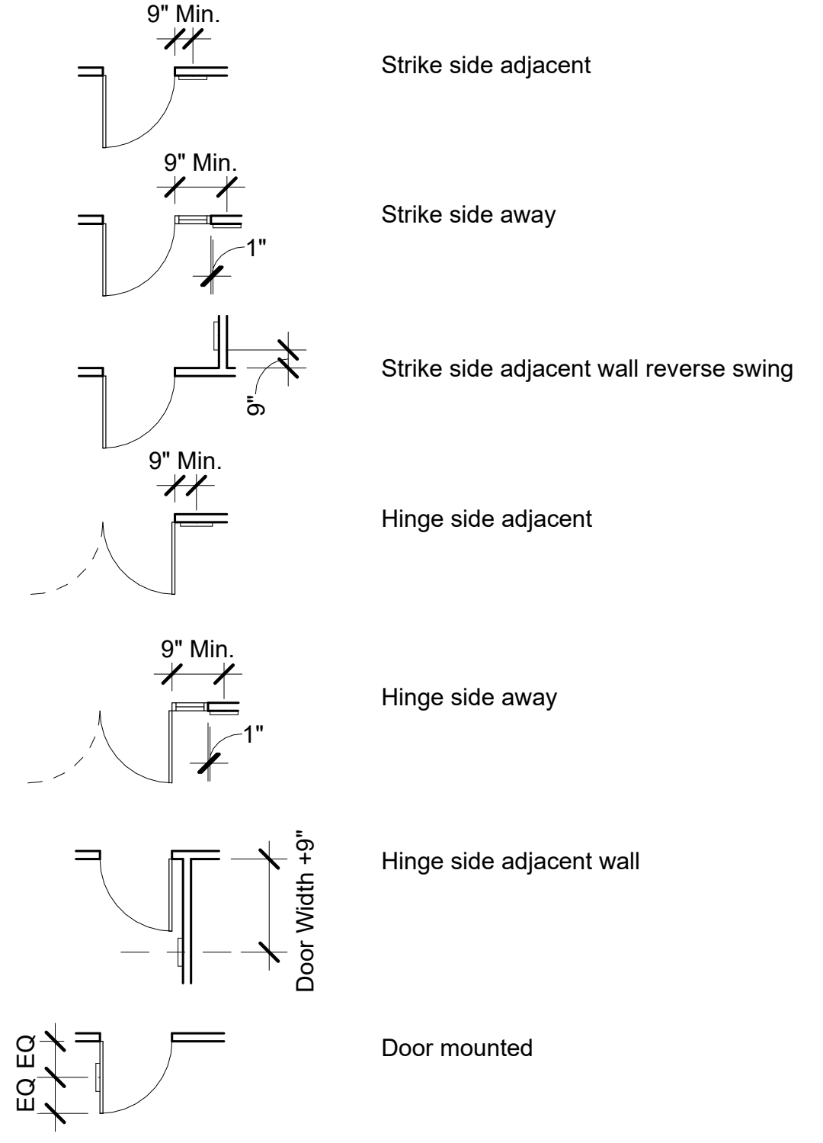
1. Metal Stud Framed Wall
2. Wood Stud Framed Wall
3. Concrete and Concrete Masonry
4. Glass
5. Door
6. See Plan

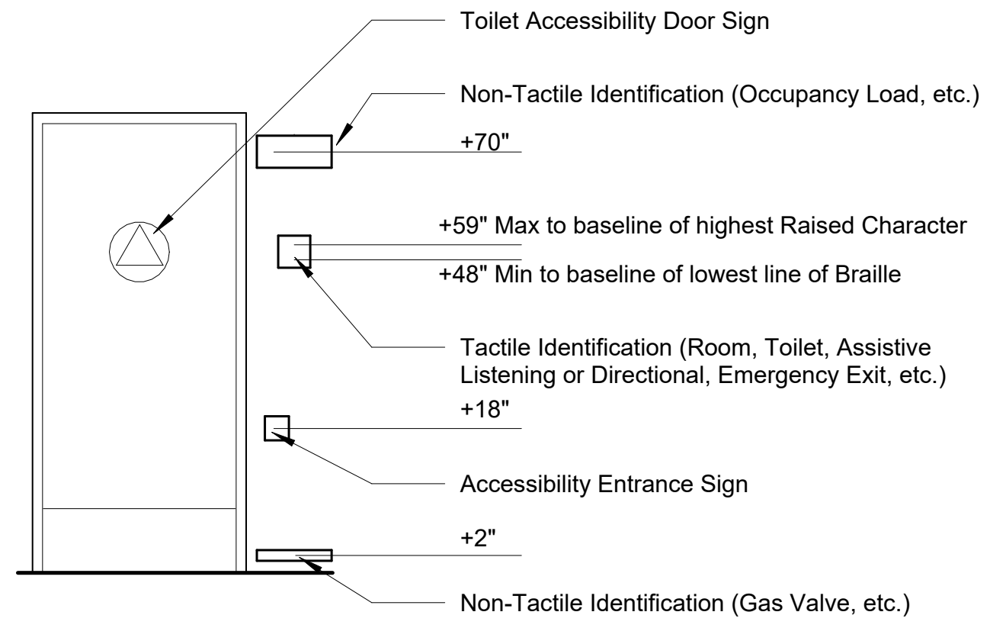
SIGN MATERIAL

A = Acrylic
EM = Exterior Metal.
IM = Interior Metal.
EP = Exterior Plastic.
IP = Interior Plastic.
D = Decal.

MOUNTING LOCATION

Refer to Signage Plan for location. (Reverse swing similar)




Toilet Accessibility Door Sign
Non-Tactile Identification (Occupancy Load, etc.)
+70"
+59" Max to baseline of highest Raised Character
+48" Min to baseline of lowest line of Braille
Tactile Identification (Room, Toilet, Assistive Listening or Directional, Emergency Exit, etc.)
+18"
Accessibility Entrance Sign
+2"
Non-Tactile Identification (Gas Valve, etc.)

Typical Mounting Heights

Scale: N.T.S.

NOTES

1. Refer to Specification Section IDENTIFYING DEVICES.
2. Refer to Plan for Mounting Location.
3. Veify Sign Copy with Owner prior to fabrication, "-" indicates a blank space
4. For IDENTIFYING DEVICES, Signage Dimensions, refer to detail A11 X/A601 Typ

G18
Signage Schedule Legend
No Scale

Community Day School Modernization
Merced City School District
Merced, CA, 95340
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BUILDING A
SIGNAGE PLAN AND SCHEDULE
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LICENSED ARCHITECT
GRANT E. DODSON
No. C-20,307
Ren. 6-30-27
STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

	Designed By: -	Copyright 2026 Darden Architects
Scale: 1/8" = 1'-0"	Drawn By: -	A/A701
Project Number: 2533	Checked By: -	
Date: 2/9/2026	Reviewed By: -	

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DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

FLOOR PATTERN LEGEND

Only rooms with floor patterns or multiple flooring types shown, see Interior Finish Schedule for additional information.

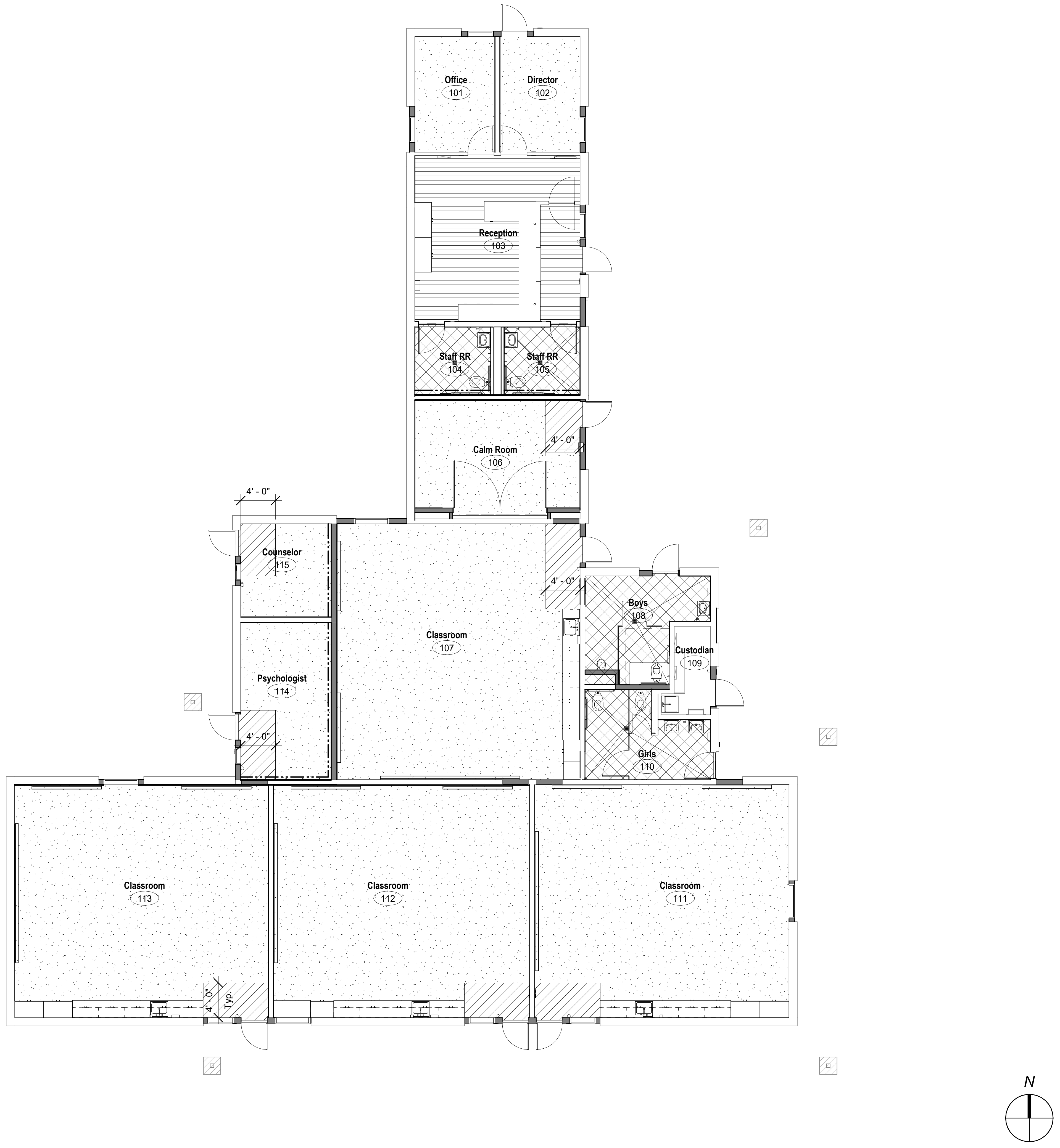
☐	Refer to Interior Finish Schedule
▩	RESILIENT SHEET, Sheet Vinyl
▤	RESILIENT TILE, Luxury Vinyl Tile
░	CARPET, Broadloom, BL-1
▨	CARPET, Walk Off, WO-1

NOTES

1. The intent of this drawing is to clarify and detail the color and patterns of finishes. All information regarding construction conditions, casework, framing and ceiling details, etc. shall be per Architectural plans, unless otherwise noted.
2. This Drawing is provided for the convenience of the Contractor. Field verify all conditions and dimensions prior to fabrication, installation or application.
3. Refer to appropriate Specification Sections for Materials, Systems and Types.
4. Refer to Interior Finish Schedule for Paint Finish.
5. Refer to Interior Color Schedule for additional information on Manufacturer, Pattern or Color.

F18
No Scale

Interior Design Legend



A7
1/8" = 1'-0"

Interior Design Plan
Refer to F18 Schedule Legend

Community Day School Modernization
Merced City School District
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Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

	Designed By: -	Copyright 2026 Darden Architects
Scale: 1/8" = 1'-0"	Drawn By: -	A/A801
Project Number: 2533	Checked By: -	
Date: 2/9/2026	Reviewed By: -	

2/6/2026 11:29:00 AM
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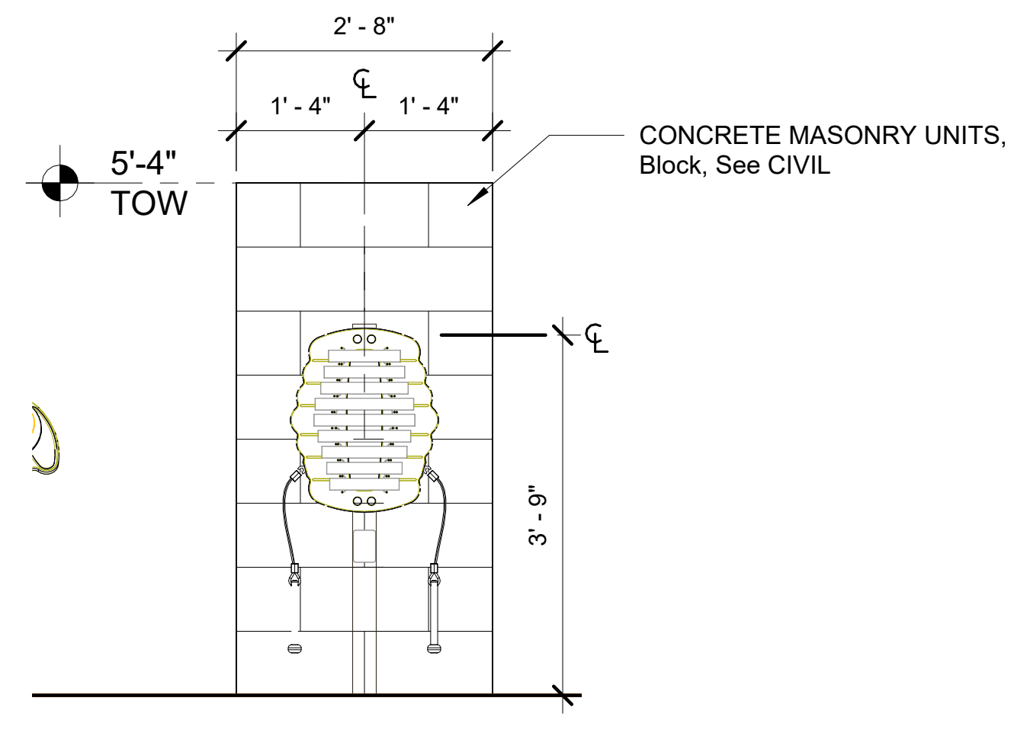

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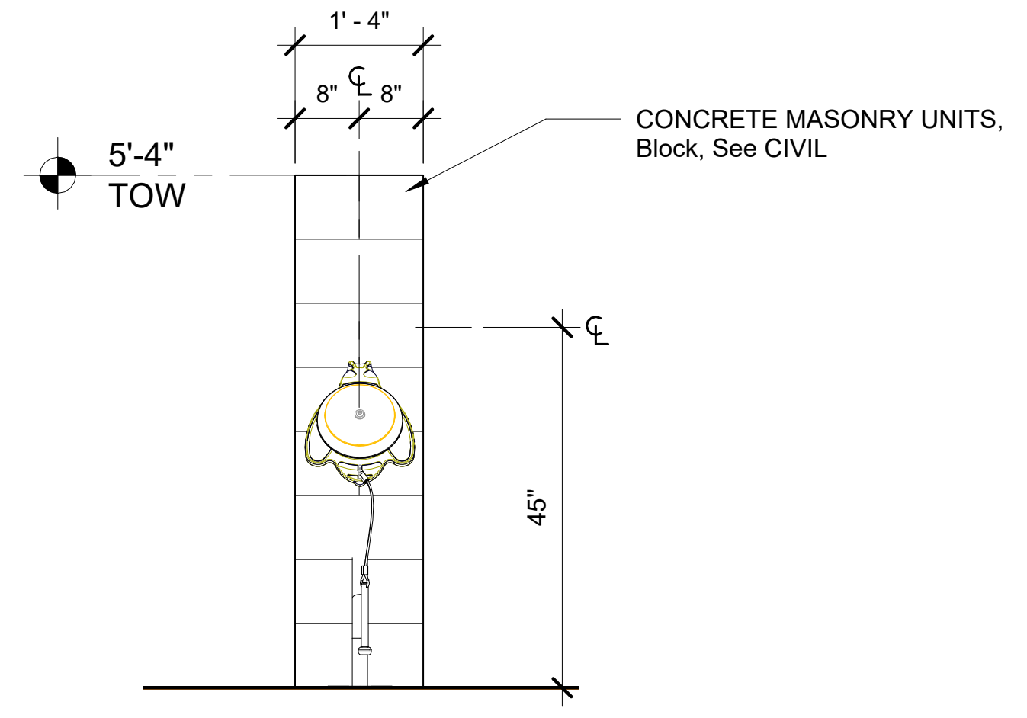

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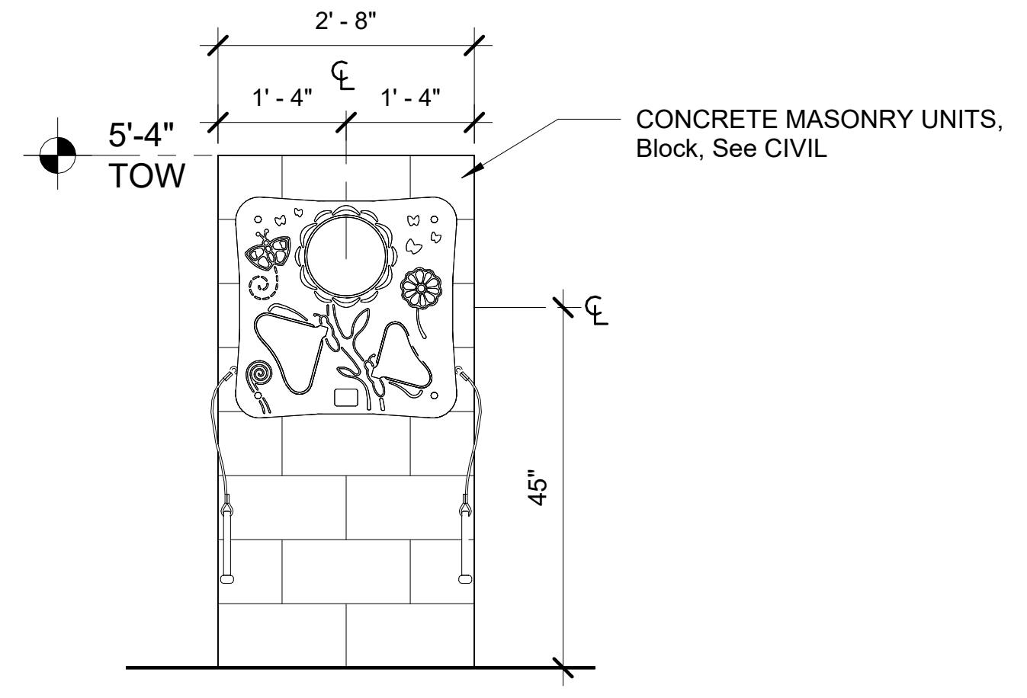
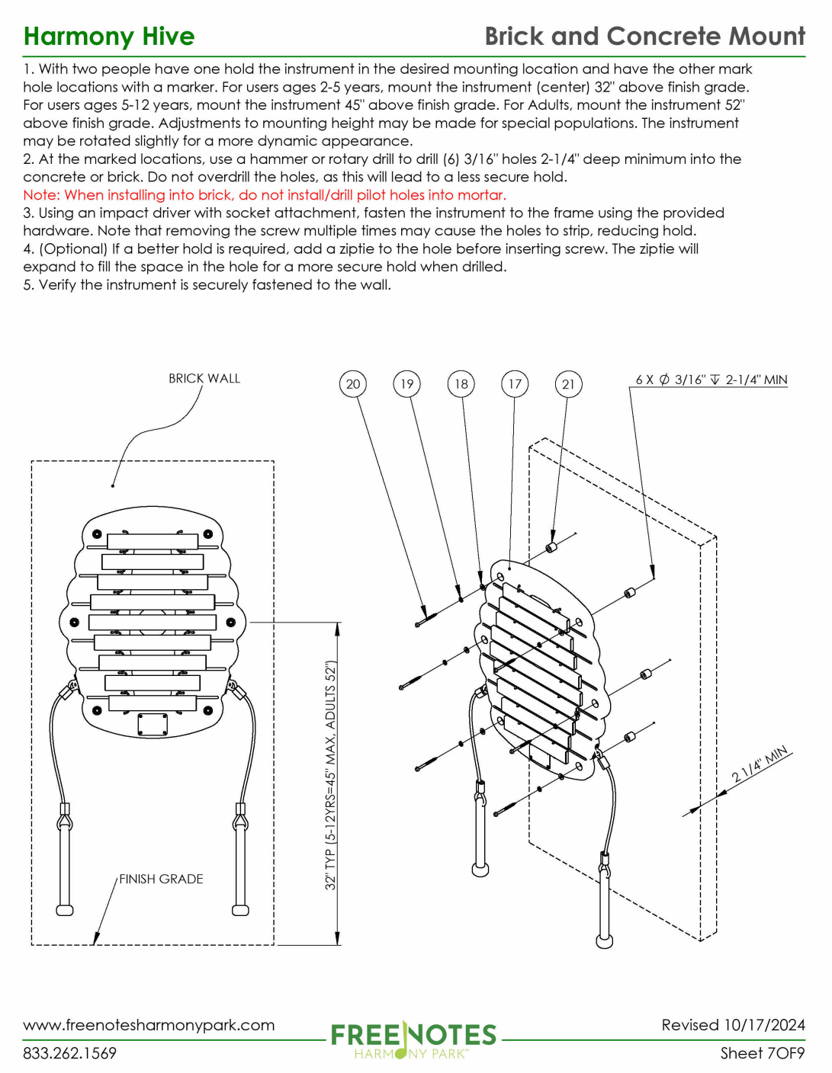


Type 3

J1 Sensory Play Equipment Elevations

1/2" = 1'-0"

Refer to A1 for Legend Symbols, Abbreviations and Notes



Harmony Hive **Brick and Concrete Mount**

1. With two people have one hold the instrument in the desired mounting location and have the other mark hole locations with a marker. For users ages 2-5 years, mount the instrument (center) 32" above finish grade. For users ages 5-12 years, mount the instrument 45" above finish grade. For Adults, mount the instrument 52" above finish grade. Adjustments to mounting height may be made for special populations. The instrument may be rotated slightly for a more dynamic appearance.
2. At the marked locations, use a hammer or rotary drill to drill (6) 3/16" holes 2-1/4" deep minimum into the concrete or brick. Do not overdrill the holes, as this will lead to a less secure hold.
Note: When installing into brick, do not install/drill pilot holes into mortar.
3. Using an impact driver with socket attachment, fasten the instrument to the frame using the provided hardware. Note that removing the screw multiple times may cause the holes to strip, reducing hold.
4. (Optional) If a better hold is required, add a ziptie to the hole before inserting screw. The ziptie will expand to fill the space in the hole for a more secure hold when drilled.
5. Verify the instrument is securely fastened to the wall.

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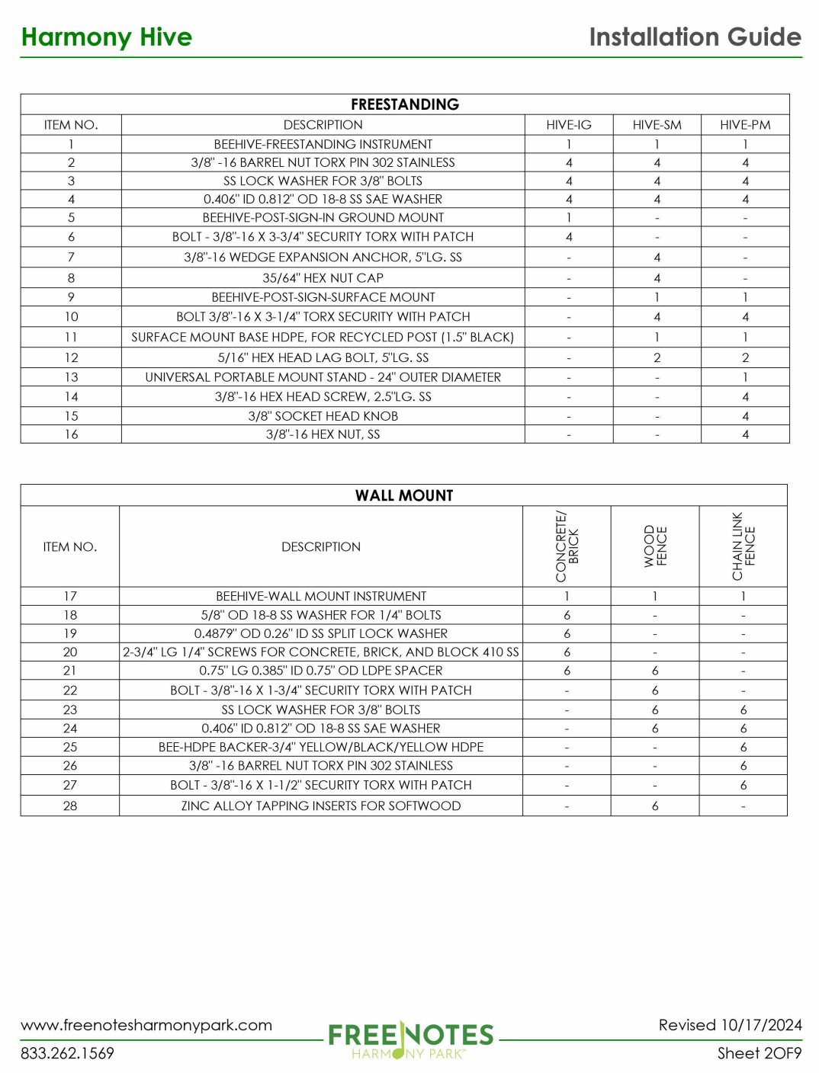
FREENOTES HARMONY PARK
Revised 10/17/2024
Sheet 7OF9



Harmony Hive **Installation Guide**

FREESTANDING				
ITEM NO.	DESCRIPTION	HIVE-IG	HIVE-SM	HIVE-PM
1	BEEHIVE-FREESTANDING INSTRUMENT	1	1	1
2	3/8" -16 BARREL NUT TORX PIN 302 STAINLESS	4	4	4
3	SS LOCK WASHER FOR 3/8" BOLTS	4	4	4
4	0.406" ID 0.812" OD 18-8 SS SAE WASHER	4	4	4
5	BEEHIVE-POST-SIGN-IN GROUND MOUNT	1	-	-
6	BOLT - 3/8"-16 X 3-3/4" SECURITY TORX WITH PATCH	4	-	-
7	3/8"-16 WEDGE EXPANSION ANCHOR, 5"LG. SS	-	4	-
8	35/64" HEX NUT CAP	-	4	-
9	BEEHIVE-POST-SIGN-SURFACE MOUNT	-	1	1
10	BOLT 3/8"-16 X 3-1/4" TORX SECURITY WITH PATCH	-	4	4
11	SURFACE MOUNT BASE HDPE, FOR RECYCLED POST (1.5" BLACK)	-	1	1
12	5/16" HEX HEAD LAG BOLT, 5"LG. SS	-	2	2
13	UNIVERSAL PORTABLE MOUNT STAND - 24" OUTER DIAMETER	-	-	1
14	3/8"-16 HEX HEAD SCREW, 2.5"LG. SS	-	-	4
15	3/8" SOCKET HEAD KNOB	-	-	4
16	3/8"-16 HEX NUT, SS	-	-	4

WALL MOUNT				
ITEM NO.	DESCRIPTION	CONCRETE/ BRICK	WOOD FENCE	CHAIN LINK FENCE
17	BEEHIVE-WALL MOUNT INSTRUMENT	1	1	1
18	5/8" OD 18-8 SS WASHER FOR 1/4" BOLTS	6	-	-
19	0.4879" OD 0.26" ID SS SPLIT LOCK WASHER	6	-	-
20	2-3/4" LG 1/4" SCREWS FOR CONCRETE, BRICK, AND BLOCK 410 SS	6	-	-
21	0.75" LG 0.385" ID 0.75" OD LDPE SPACER	6	6	-
22	BOLT - 3/8"-16 X 1-3/4" SECURITY TORX WITH PATCH	-	6	-
23	SS LOCK WASHER FOR 3/8" BOLTS	-	6	6
24	0.406" ID 0.812" OD 18-8 SS SAE WASHER	-	6	6
25	BEE-HDPE BACKER-3/4" YELLOW/BLACK/YELLOW HDPE	-	-	6
26	3/8" -16 BARREL NUT TORX PIN 302 STAINLESS	-	-	6
27	BOLT - 3/8"-16 X 1-1/2" SECURITY TORX WITH PATCH	-	-	6
28	ZINC ALLOY TAPPING INSERTS FOR SOFTWOOD	-	6	-

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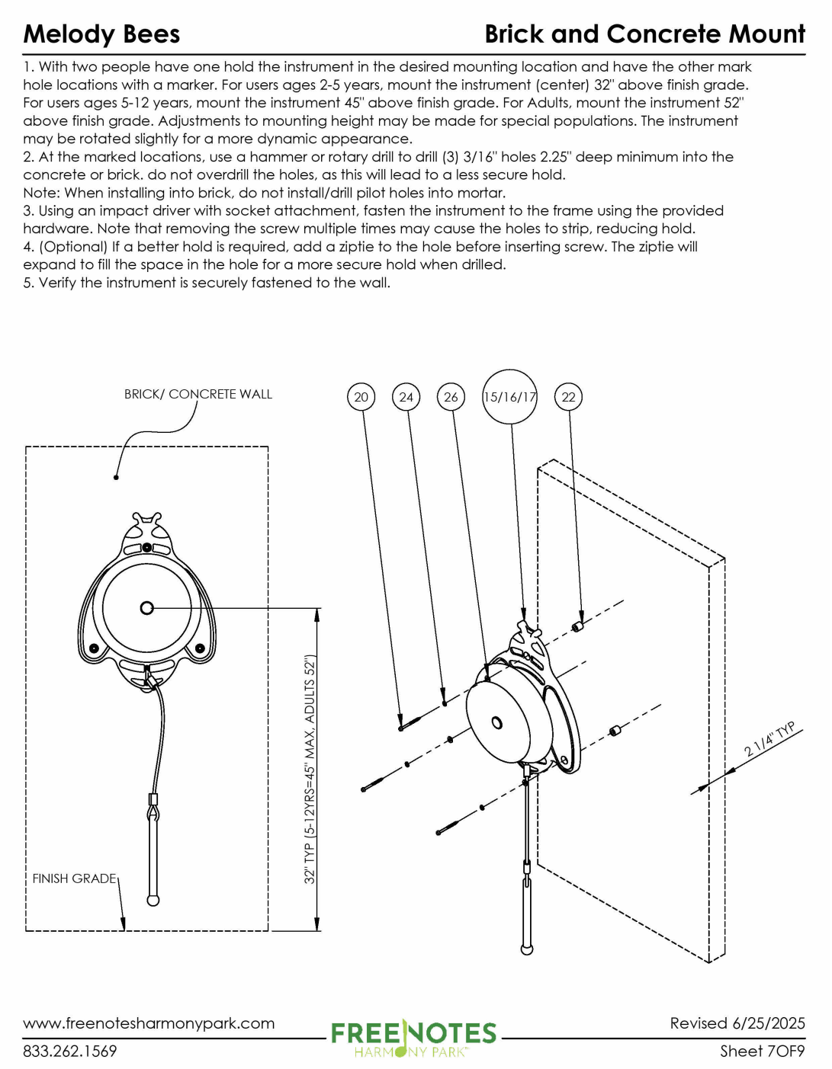
Revised 10/17/2024
Sheet 2OF9

Sensory Play Equipment, Type 1



Melody Bees **Brick and Concrete Mount**

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2. At the marked locations, use a hammer or rotary drill to drill (3) 3/16" holes 2.25" deep minimum into the concrete or brick. do not overdrill the holes, as this will lead to a less secure hold.
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5. Verify the instrument is securely fastened to the wall.

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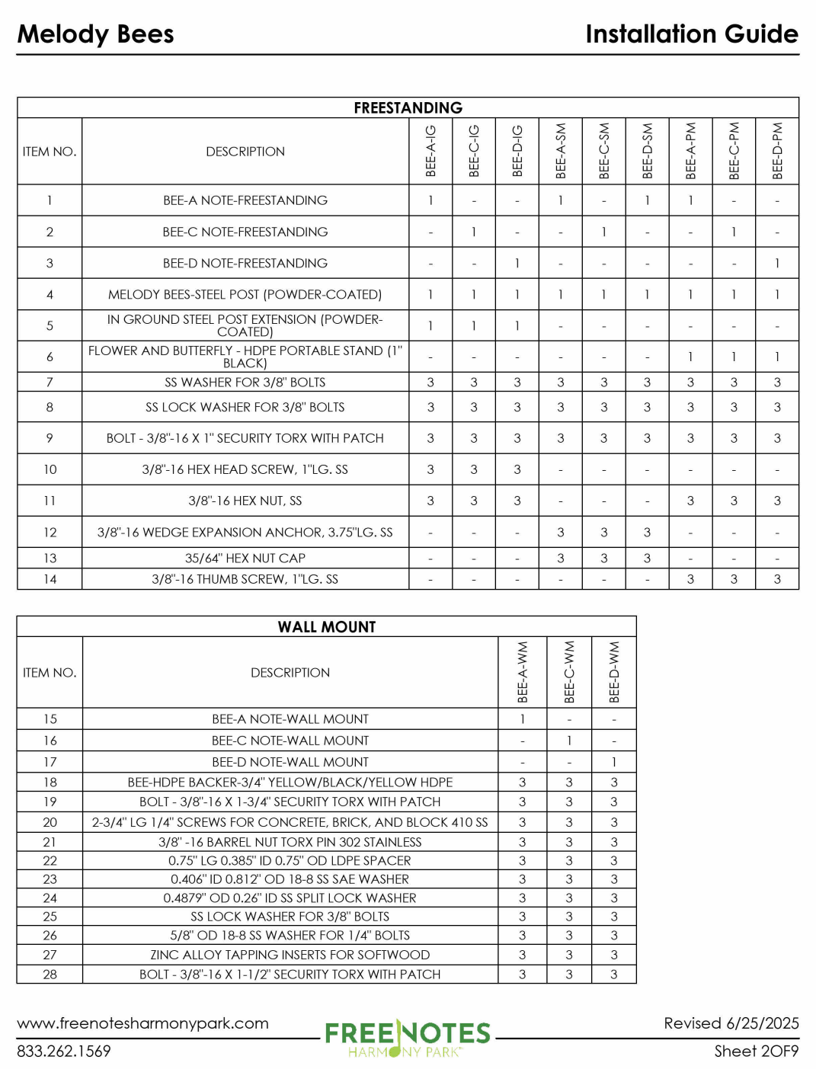
Revised 6/25/2025
Sheet 7OF9



Melody Bees **Installation Guide**

FREESTANDING										
ITEM NO.	DESCRIPTION	BEE-A-IG	BEE-C-IG	BEE-D-IG	BEE-A-SM	BEE-C-SM	BEE-D-SM	BEE-A-PM	BEE-C-PM	BEE-D-PM
1	BEE-A NOTE-FREESTANDING	1	-	-	1	-	1	1	-	-
2	BEE-C NOTE-FREESTANDING	-	1	-	-	1	-	-	1	-
3	BEE-D NOTE-FREESTANDING	-	-	1	-	-	-	-	-	1
4	MELODY BEES-STEEL POST (POWDER-COATED)	1	1	1	1	1	1	1	1	1
5	IN GROUND STEEL POST EXTENSION (POWDER-COATED)	1	1	1	-	-	-	-	-	-
6	FLOWER AND BUTTERFLY - HDPE PORTABLE STAND (1" BLACK)	-	-	-	-	-	-	1	1	1
7	SS WASHER FOR 3/8" BOLTS	3	3	3	3	3	3	3	3	3
8	SS LOCK WASHER FOR 3/8" BOLTS	3	3	3	3	3	3	3	3	3
9	BOLT - 3/8"-16 X 1" SECURITY TORX WITH PATCH	3	3	3	3	3	3	3	3	3
10	3/8"-16 HEX HEAD SCREW, 1"LG. SS	3	3	3	-	-	-	-	-	-
11	3/8"-16 HEX NUT, SS	3	3	3	-	-	-	3	3	3
12	3/8"-16 WEDGE EXPANSION ANCHOR, 3.75"LG. SS	-	-	-	3	3	3	-	-	-
13	35/64" HEX NUT CAP	-	-	-	3	3	3	-	-	-
14	3/8"-16 THUMB SCREW, 1"LG. SS	-	-	-	-	-	-	3	3	3

WALL MOUNT				
ITEM NO.	DESCRIPTION	BEE-A-WM	BEE-C-WM	BEE-D-WM
15	BEE-A NOTE-WALL MOUNT	1	-	-
16	BEE-C NOTE-WALL MOUNT	-	1	-
17	BEE-D NOTE-WALL MOUNT	-	-	1
18	BEE-HDPE BACKER-3/4" YELLOW/BLACK/YELLOW HDPE	3	3	3
19	BOLT - 3/8"-16 X 1-3/4" SECURITY TORX WITH PATCH	3	3	3
20	2-3/4" LG 1/4" SCREWS FOR CONCRETE, BRICK, AND BLOCK 410 SS	3	3	3
21	3/8" -16 BARREL NUT TORX PIN 302 STAINLESS	3	3	3
22	0.75" LG 0.385" ID 0.75" OD LDPE SPACER	3	3	3
23	0.406" ID 0.812" OD 18-8 SS SAE WASHER	3	3	3
24	0.4879" OD 0.26" ID SS SPLIT LOCK WASHER	3	3	3
25	SS LOCK WASHER FOR 3/8" BOLTS	3	3	3
26	5/8" OD 18-8 SS WASHER FOR 1/4" BOLTS	3	3	3
27	ZINC ALLOY TAPPING INSERTS FOR SOFTWOOD	3	3	3
28	BOLT - 3/8"-16 X 1-1/2" SECURITY TORX WITH PATCH	3	3	3

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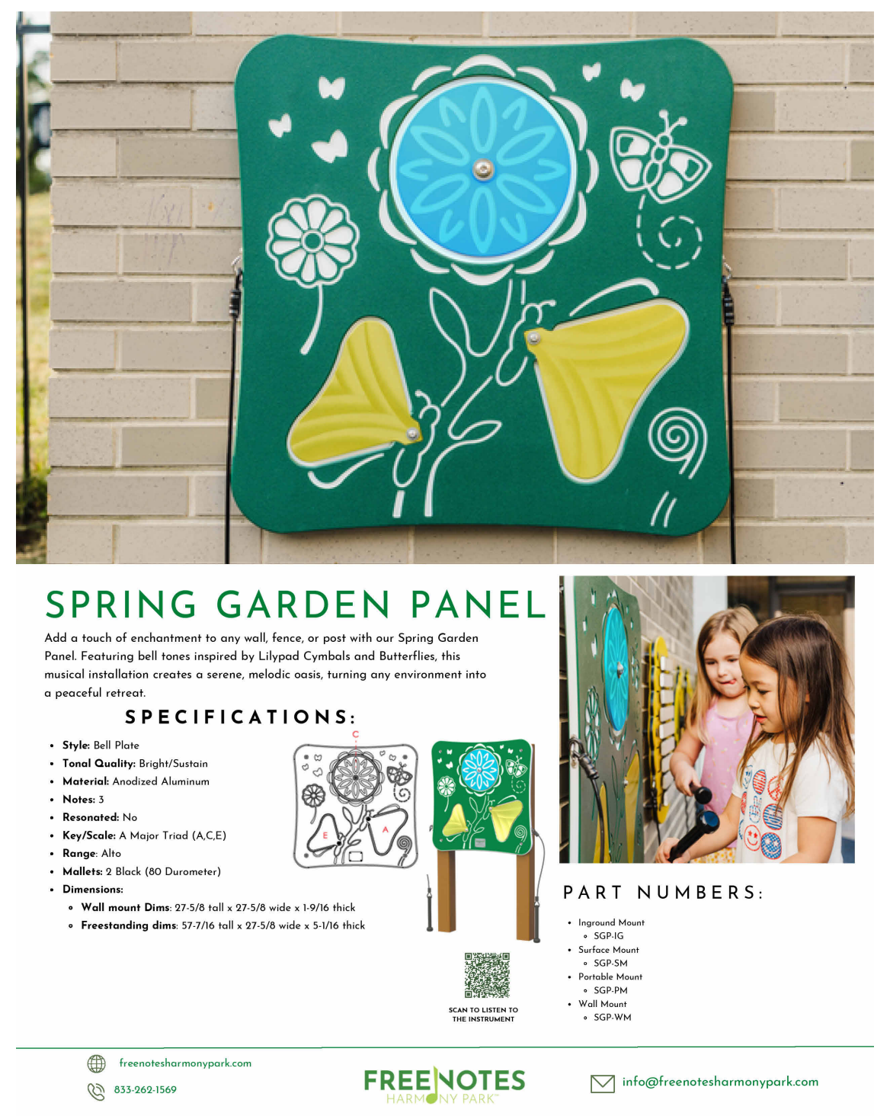
FREENOTES HARMONY PARK
Revised 6/25/2025
Sheet 2OF9

Sensory Play Equipment, Type 2



SPRING GARDEN PANEL

Add a touch of enchantment to any wall, fence, or post with our Spring Garden Panel. Featuring bell tones inspired by Lilypad Cymbals and Butterflies, this musical installation creates a serene, melodic oasis, turning any environment into a peaceful retreat.

SPECIFICATIONS:

- **Style:** Bell Plate
- **Tonal Quality:** Bright/Sustain
- **Material:** Anodized Aluminum
- **Notes:** 3
- **Resonated:** No
- **Key/Scale:** A Major Triad (A,C,E)
- **Range**: Alto
- **Mallets:** 2 Black (80 Durometer)
- **Dimensions:**
  - **Wall mount Dims**: 27-5/8 tall x 27-5/8 wide x 1-9/16 thick
  - **Freestanding dims**: 57-7/16 tall x 27-5/8 wide x 5-1/16 thick

PART NUMBERS:

- Inground Mount
  - SGP-IG
- Surface Mount
  - SGP-SM
- Portable Mount
  - SGP-PM
- Wall Mount
  - SGP-WM

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833-262-1569
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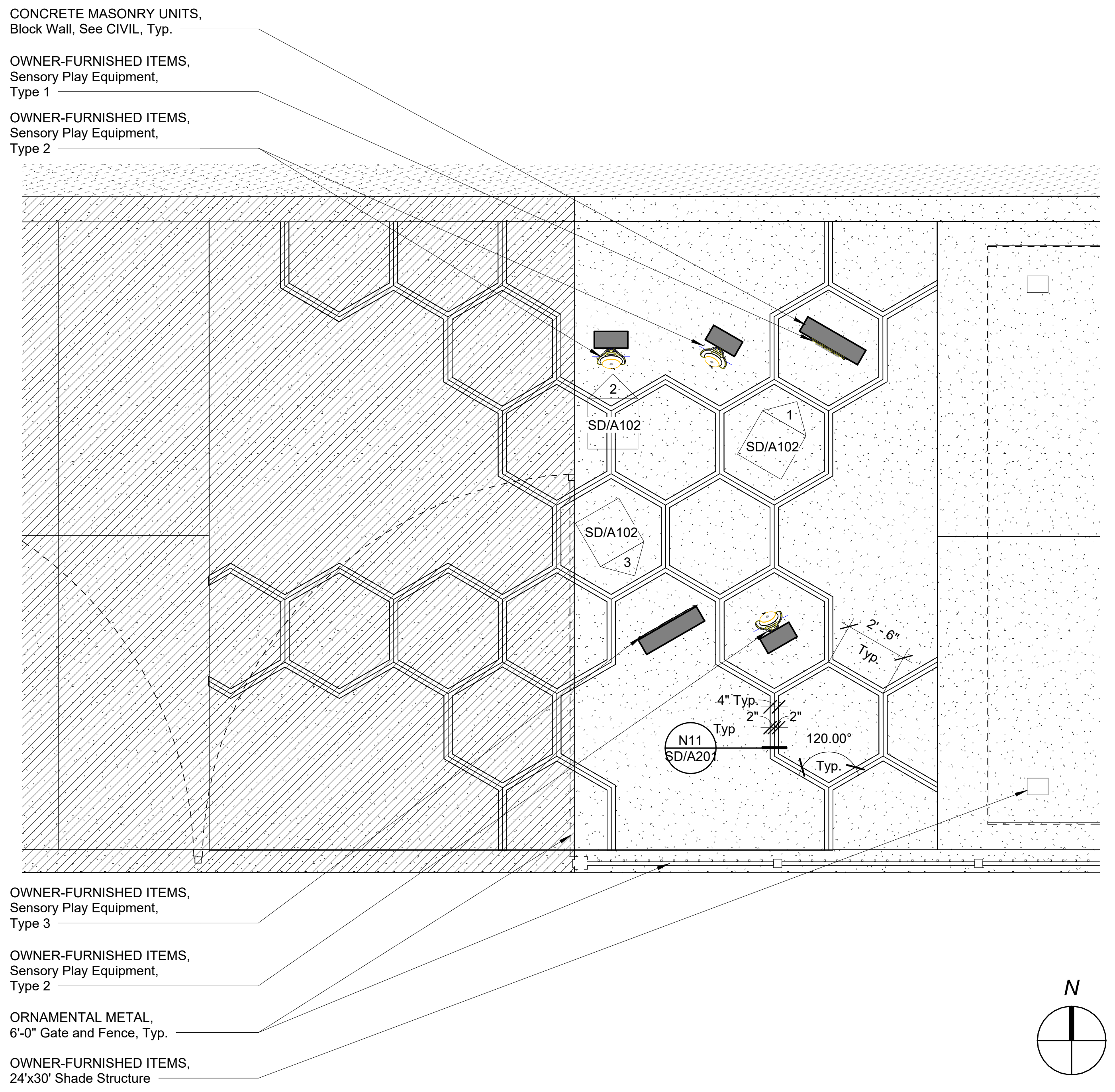
info@freenotesharmonypark.com

Sensory Play Equipment, Type 3



J4 Enlarged Site Plan - Sensory Play Area

1/4" = 1'-0"

Refer to G18 for Symbols, Abbreviations and Notes.

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

SYMBOLS

▨	ASPHALT PAVING, Typical Paving Section, 6" Asphalt Concrete over 5" Aggregate Base over 12" 95% Compacted Fill.
▨	ASPHALT PAVING, Heavy Paving Section, 7" Asphalt Concrete over 6" Aggregate Base over 95% Compacted Fill.
▨	SITE CONCRETE IMPROVEMENTS, 4" Concrete Walk over 6" 90% Compacted Fill.
▨	SITE CONCRETE IMPROVEMENTS, 6" Concrete Walk over 12" 90% Compacted Fill.
☐	Existing Concrete Paving
▨	SITE CONCRETE IMPROVEMENTS, Dashed Lines Indicate Expansion Joints. Solid Lines Indicate Control Joints.
━━━	Building Outline
───	Property Line
— — —	Limits of Construction (Project Area)
X──X──X	Existing Fencing
───	Existing
Slope (DN)	General Direction of Slope
☼	ELECTRICAL, Existing Light Pole
●─CC	Indicates Concrete Curb
●─MS	Indicates Mow Strip
SG01	Opening Group No. Refer to Site Gate Schedule
CB	STORM DRAINAGE, Catch Basin or Drain Box
FH	PLUMBING, Fire Hydrant
FDC	PLUMBING, Fire Department Connection (Siamese)
PIV	PLUMBING, Post Indicator Valve
◎	ELECTRICAL, Pole Light Fixture,
▽	ELECTRICAL, Light Fixture, Directional
☐	ELECTRICAL & MECHANICAL, Utility Box

ABBREVIATIONS

(E)	Existing	FL	Flow Line	RWL	Rain Water Leader
AC	Air Conditioning System	FMFCD	Fresno Metropolitan Flood Control District	SD	Storm Drain
AD	Area Drain, (See Plumbing)	FS	Floor Sink	SL	Site Lighting
BW	Back of Walk	G	Gas	S	Signal
C	Concrete	GT	Gutter	SS	Sanitary Sewer
CB	Catch Basin	GB	Grade Break	TB	Top of Bench
CJ	Control Joint	RG	Rough Grade	TC	Top of Curb
CM	Communications	HPG	High Pressure Gas	TD	Trench Drain
COB	Clean Out Box	HL	Hydronics Line	TG	Top of Grate
CW	Cold Water	INV N	Invert North	TF	Top of Fence
DB	Drain Box	INV NE	Invert Northeast	TL	Top of Lid
DI	Drain Inlet	MH	Manhole	TLB	Top of Light Base
DS	Drainage Swale	MS	Mow Strip	TW	Top of Wall
EMS	Energy Management System	OC	On Center	Typ.	Typical
E	Electrical Power	P	Pavement	UNO	Unless Noted Otherwise
EJ	Expansion Joint, 1/2"	P1-P4	Electrical Utility Box	VG	Valley Gutter
F	Fire Protection	PIV	Post Indicator Valve	W	Waste
FD	Floor Drain	PL	Planter		
FDC	Fire Dept Connection	R	Radius		
FF	Finish Floor				
FG	Finish Grade				

NOTES

1) CAST-IN-PLACE CONCRETE, All Concrete Walk Joints Shall Be Expansion Joints unless otherwise noted. Provide Expansion Joints where walk abuts other site elements.

2) PLUMBING, See Plumbing Drawings

3) ELECTRICAL, See Electrical Drawings

4) LANDSCAPING, See Landscape and Irrigation Drawings

5) Refer to CIVIL for Vertical Controls and Grading

G18 Site Plan Legend

No Scale

EXTERIOR COLOR LEGEND

Plaster Colors (New and Existing)

PC-1	Beige

Plaster walls perpendicular to elevation, not shown elsewhere, shall be the same color as face plane, Unless Noted Otherwise.

Metal Colors

MC-1	Beige
MC-2	Blue

All Hollow Metal Frames to be MC-2
All Steel and Fabrications to match adjacent wall, UNO.

Block Colors

BC-1	Beige

All Precision Block to be BC-1, UNO.

Door Colors

All Doors to be MC-2

Color Notes

1. XX-X Color Designation.
2. Parapet caps to match color of wall below, UNO.
3. Soffits to match color of outer face wall, UNO.
4. Horizontal soffits adjacent to fascia board shall be PC-1.

SYMBOLS

H	ELECTRICAL, Horn
S	ELECTRICAL, Speaker
▯	ELECTRICAL, Outlet
⏢	ELECTRICAL, Light Fixture, +7'-6" B.O. Fixture UNO
⫽	Glass

ABBREVIATIONS

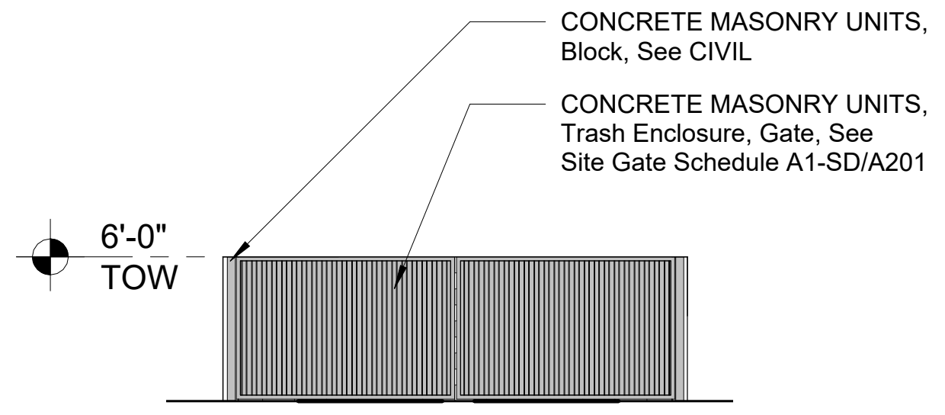
AFF	Above Finished Floor
BO	Bottom of
CJ	Control Joint
EJ	Expansion Joint
HB	PLUMBING, Hose Bibb.
OH	Opposite Hand
Sim.	Similar
TO	Top of
TOM	Top of Masonry
TOP	Top of Parapet Framing
TOF	Top of Framing
TOR	Top of Roof
TOS	Top of Steel
TPL	Top of Plate
Typ.	Typical
UNO	Unless Noted Otherwise

NOTES

1. Refer to Specifications Section Appendix "C" Exterior Color Schedule.
2. Refer to Exterior Finish Schedule on Sheet X/A201.

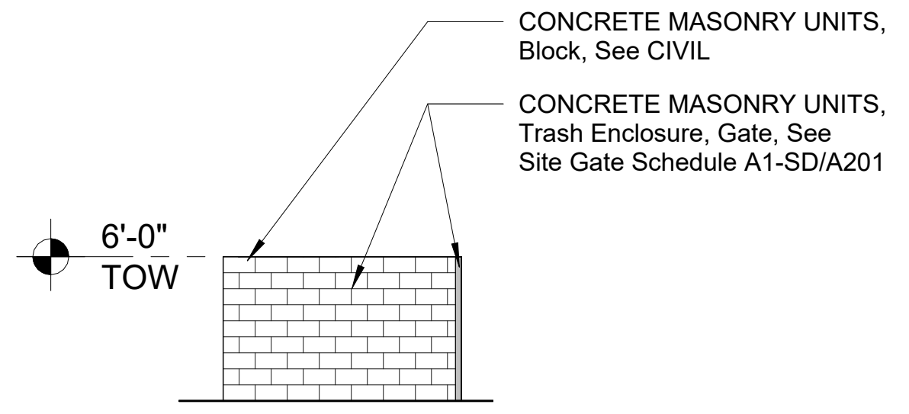
A1 Exterior Site Elevations Legend

No Scale



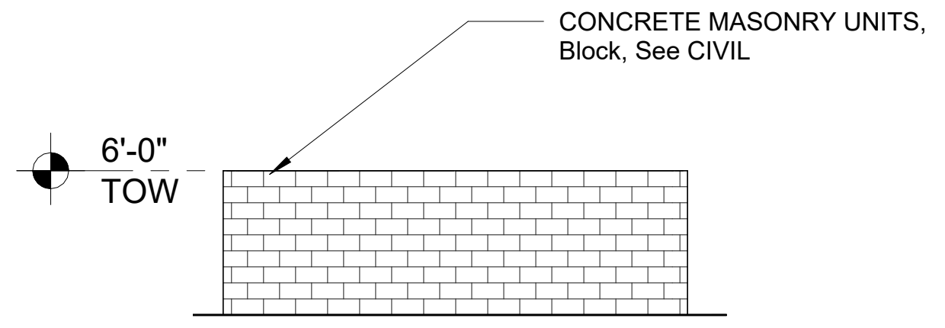
NORTH

N - SD/A102



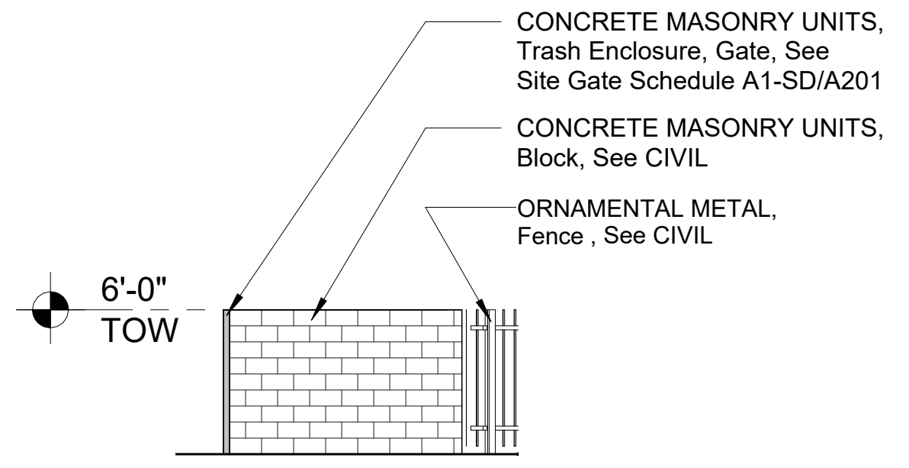
EAST

E - SD/A102



SOUTH

S - SD/A102



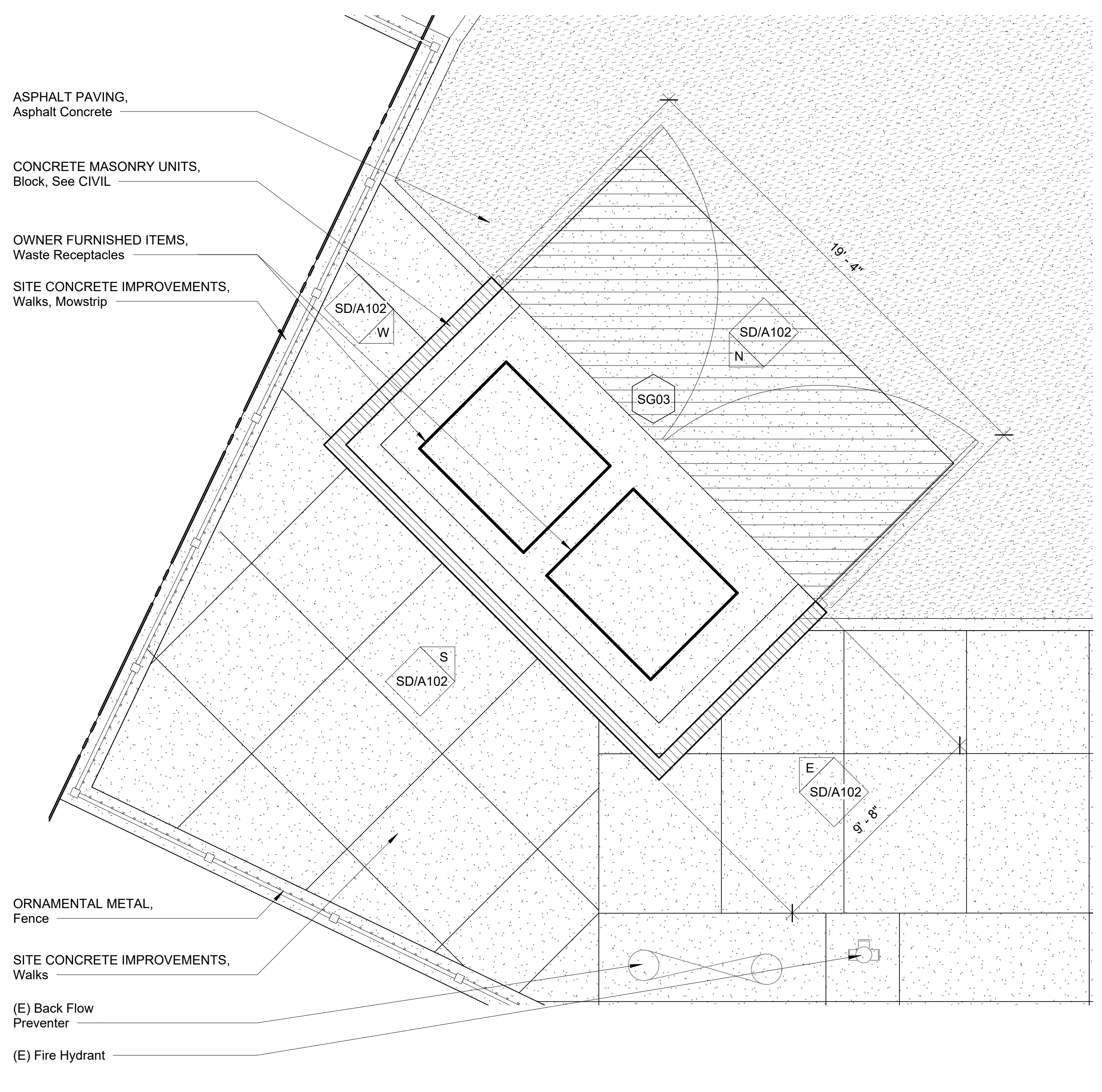
WEST

W - SD/A102

A4 Trash Enclosure Exterior Elevations

1/8" = 1'-0"

Refer to A1 for Legend Symbols, Abbreviations and Notes



A11 Enlarged Site Plan -Trash Enclosure

1/4" = 1'-0"

Refer to G18 for Symbols, Abbreviations and Notes.

Community Day School Modernization
Merced City School District
Merced, CA, 95340
Project

SITE DEVELOPMENT
ENLARGED SITE PLANS AND ELEVATIONS
Drawing

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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

Grant E Dodson

Architect

No.	Revision/Submission	Date

Revision

		Designed By:	-
Scale:	As indicated	Drawn By:	-
Project Number:	2533	Checked By:	-
Date:	2/9/2026	Reviewed By:	-

SD/A102

2/6/2026 11:29:10 AM
D:\Revit Local Files\2533_CDS_Mod_V24_BrandonhFXVM7.rvt

MERCED CITY SD - Community Day School
TOP VIEW

ADA ACCESSIBILITY GUIDELINES - ADAAG CONFORMANCE

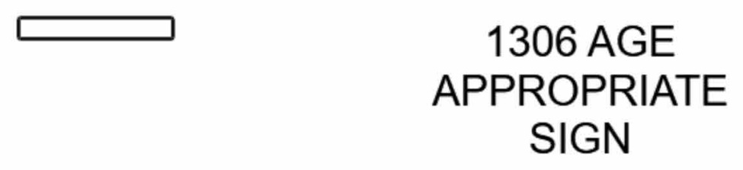
ELEVATED	ACCESSIBLE	RAMP ACCESSIBLE	GROUND	TYPES
0	0/0	0/0	0/0	0/0

CHILD CAPACITY 0 **MAX FALL HEIGHT** 0

GENERAL NOTES

This conceptual plan is based on information provided prior to construction. Detailed site information, including the following, should be obtained, evaluated, and utilized in the final project design. Exact site dimensions, topography, existing utilities, soil conditions and drainage solutions.

WARNING: Accessible safety surfacing material is required beneath and around this equipment that has a critical height value (Fall Height) appropriate for the highest accessible part of this equipment. Refer to the CPSC'S Handbook For Public Playground Safety, Section 4: Surfacing.



STRUCTURE # STAPC1305+1306
PROJECT # Community
DATE 9/18/2025

Park Planet
MIN. USE ZONE 0' x 0' (0m x 0m)

Play Equipment, Type 1

MERCED CITY SD - Community Day School
TOP VIEW

ADA ACCESSIBILITY GUIDELINES - ADAAG CONFORMANCE

ELEVATED	ACCESSIBLE	RAMP ACCESSIBLE	GROUND	TYPES
9	11/5	0/0	2/3	3/3

CHILD CAPACITY 93 **MAX FALL HEIGHT** 72

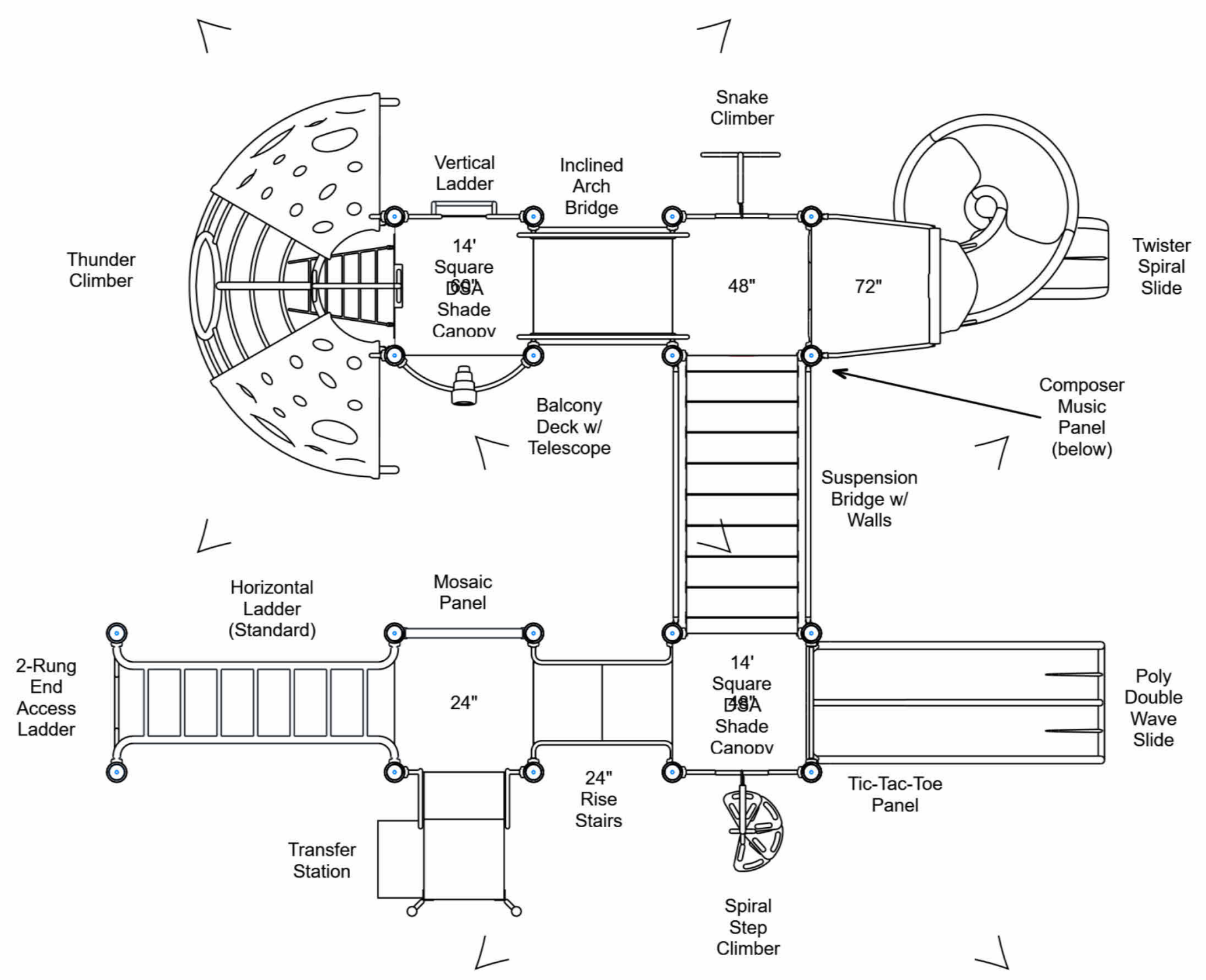
R5

FOR KIDS
AGES
5-12

GENERAL NOTES

This conceptual plan is based on information provided prior to construction. Detailed site information, including the following, should be obtained, evaluated, and utilized in the final project design. Exact site dimensions, topography, existing utilities, soil conditions and drainage solutions.

WARNING: Accessible safety surfacing material is required beneath and around this equipment that has a critical height value (Fall Height) appropriate for the highest accessible part of this equipment. Refer to the CPSC'S Handbook For Public Playground Safety, Section 4: Surfacing.



STRUCTURE # R5092115A
PROJECT # Community
DATE 9/18/2025

Park Planet
MIN. USE ZONE 39' x 35' (11.862m x 10.429m)

Play Equipment, Type 2

MERCED CITY SD - Community Day School
TOP VIEW

ADA ACCESSIBILITY GUIDELINES - ADAAG CONFORMANCE

ELEVATED	ACCESSIBLE	RAMP ACCESSIBLE	GROUND	TYPES
0	0/0	0/0	1/0	1/0

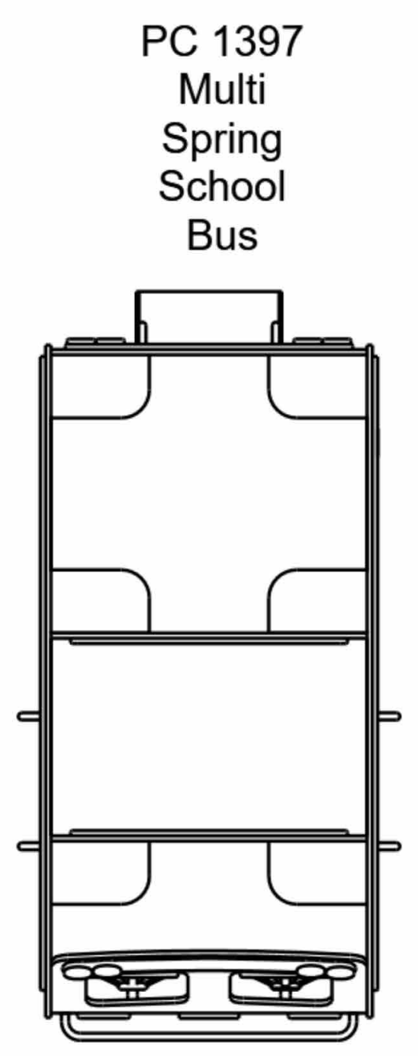
CHILD CAPACITY 10 **MAX FALL HEIGHT** 60

FOR KIDS
AGES
2-5

GENERAL NOTES

This conceptual plan is based on information provided prior to construction. Detailed site information, including the following, should be obtained, evaluated, and utilized in the final project design. Exact site dimensions, topography, existing utilities, soil conditions and drainage solutions.

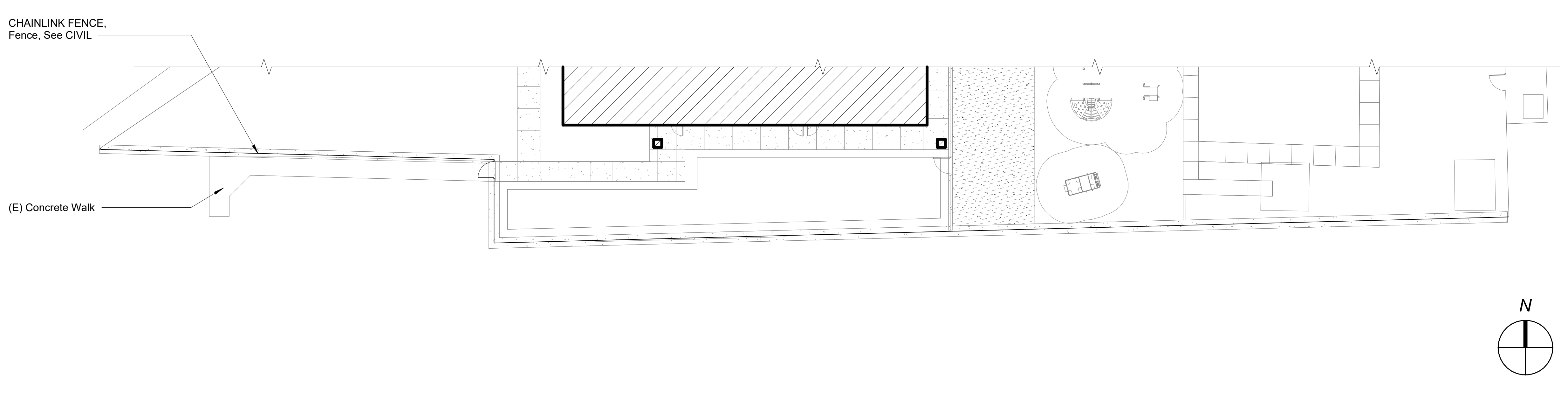
WARNING: Accessible safety surfacing material is required beneath and around this equipment that has a critical height value (Fall Height) appropriate for the highest accessible part of this equipment. Refer to the CPSC'S Handbook For Public Playground Safety, Section 4: Surfacing.



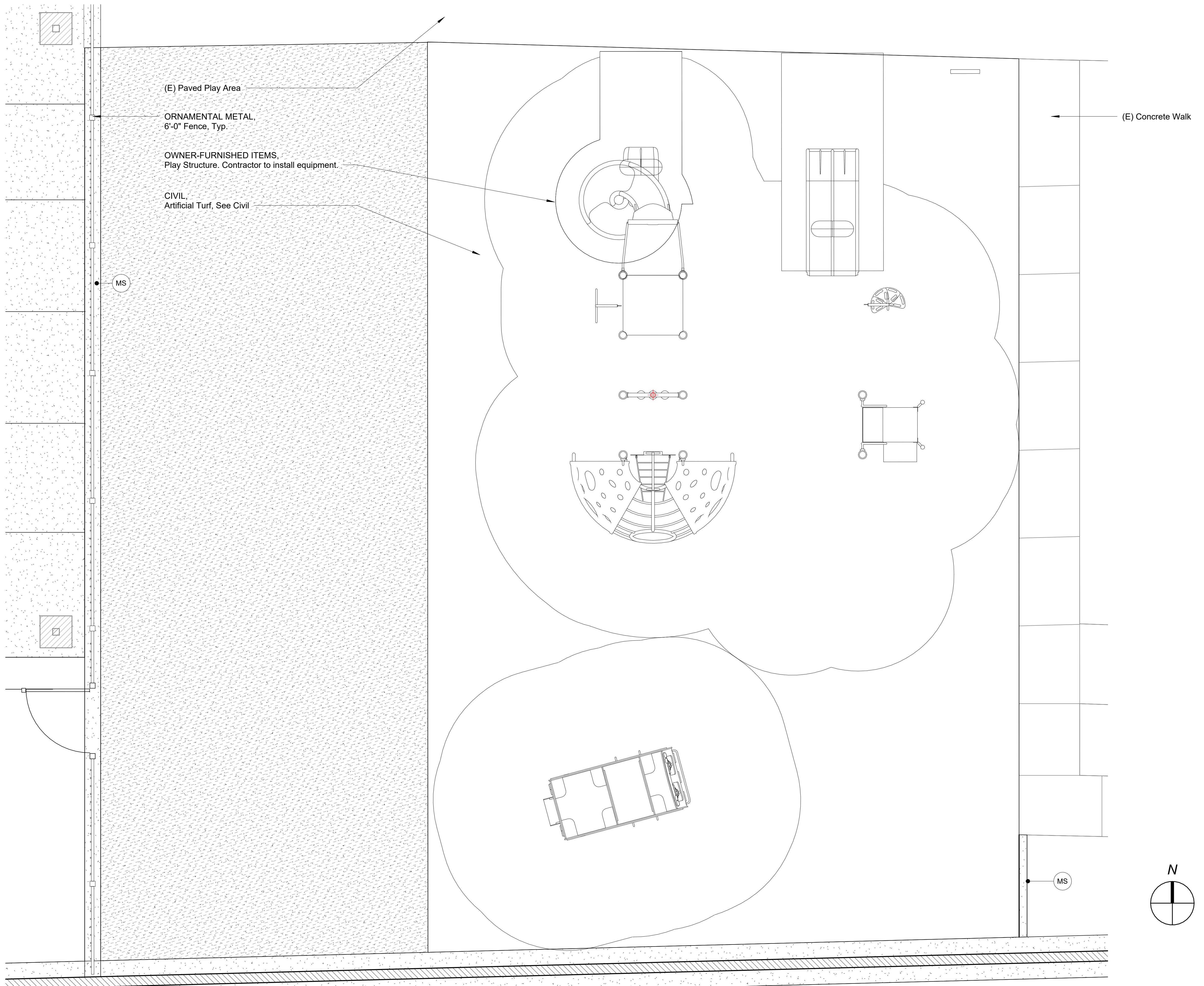
STRUCTURE # FREPC1397
PROJECT # Community
DATE 9/18/2025

Park Planet
MIN. USE ZONE 19' x 23' (5.646m x 6.976m)

Play Equipment, Type 3



J7
1" = 20'-0"
Partial Site Plan, Deductive Alternate No. 1



NOTE: Play Ground Equipment shall comply with CBC 11B-240 and its sub-sections as applicable & 11B-1008. Ground surface must comply with 11B-1008.2.6.

A1
1/4" = 1'-0"
Enlarged Site Plan, New Playground
Refer to G18 for Symbols, Abbreviations and Notes.

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

SYMBOLS

▨	ASPHALT PAVING, Typical Paving Section, 6" Asphalt Concrete over 5" Aggregate Base over 12" 95% Compacted Fill.
▨	ASPHALT PAVING, Heavy Paving Section, 7" Asphalt Concrete over 6" Aggregate Base over 95% Compacted Fill.
░	SITE CONCRETE IMPROVEMENTS, 4" Concrete Walk over 6" 90% Compacted Fill.
▨	SITE CONCRETE IMPROVEMENTS, 6" Concrete Walk over 12" 90% Compacted Fill.
☐	Existing Concrete Paving
⊞	SITE CONCRETE IMPROVEMENTS, Dashed Lines Indicate Expansion Joints. Solid Lines Indicate Control Joints.
━━	Building Outline
──	Property Line
– – –	Limits of Construction (Project Area)
X—X—X	Existing Fencing
──	Existing
Slope (DN)	General Direction of Slope
☼	ELECTRICAL, Existing Light Pole
CC	Indicates Concrete Curb
MS	Indicates Mow Strip
SG01	Opening Group No. Refer to Site Gate Schedule
CB	STORM DRAINAGE, Catch Basin or Drain Box
FH	PLUMBING, Fire Hydrant
FDC	PLUMBING, Fire Department Connection (Siamese)
PIV	PLUMBING, Post Indicator Valve
◎	ELECTRICAL, Pole Light Fixture,
▽	ELECTRICAL, Light Fixture, Directional
☐	ELECTRICAL & MECHANICAL, Utility Box

ABBREVIATIONS

(E)	Existing	FL	Flow Line	RWL	Rain Water Leader
AC	Air Conditioning System	FMFCD	Fresno Metropolitan Flood Control District	SD	Storm Drain
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CJ	Control Joint	RG	Rough Grade	TC	Top of Curb
CM	Communications	HPG	High Pressure Gas	TD	Trench Drain
COB	Clean Out Box	HL	Hydronics Line	TG	Top of Grate
CW	Cold Water	INV N	Invert North	TF	Top of Fence
DB	Drain Box	INV NE	Invert Northeast	TL	Top of Lid
DI	Drain Inlet	MH	Manhole	TLB	Top of Light Base
DS	Drainage Swale	MS	Mow Strip	TW	Top of Wall
EMS	Energy Management System	OC	On Center	Typ.	Typical
E	Electrical Power	P	Pavement	UNO	Unless Noted Otherwise
EJ	Expansion Joint, 1/2"	P1-P4	Electrical Utility Box	VG	Valley Gutter
F	Fire Protection	PIV	Post Indicator Valve	W	Waste
FD	Floor Drain	PL	Planter		
FDC	Fire Dept Connection	R	Radius		
FF	Finish Floor				
FG	Finish Grade				

NOTES

1) CAST-IN-PLACE CONCRETE, All Concrete Walk Joints Shall Be Expansion Joints unless otherwise noted. Provide Expansion Joints where walk abuts other site elements.

2) PLUMBING, See Plumbing Drawings

3) ELECTRICAL, See Electrical Drawings

4) LANDSCAPING, See Landscape and Irrigation Drawings

5) Refer to CIVIL for Vertical Controls and Grading

G18
No Scale
Site Plan Legend

Community Day School Modernization
Merced City School District
Merced, CA, 95340
Project

SITE DEVELOPMENT
PARTIAL SITE PLANS
Drawing

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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

Grant E Dodson

Architect

No.	Revision/Submission	Date

Revision

	Designed By: -	
Scale: As indicated	Drawn By: -	SD/A103
Project Number: 2533	Checked By: -	
Date: 2/9/2026	Reviewed By: -	

E1 WOOD NOTES
X/S101 NOT TO SCALE

1. ALL BOLTS SHALL BE MACHINE MADE TYPE F1554 GRADE 36 U.N.O.
2. BOLT HOLES IN WOOD SHALL BE OVERSIZED BY NOT MORE THAN 1/32".
3. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH STANDARD STEEL WASHERS UNDER HEAD AND NUTS WHICH BEAR ON WOOD ACCORDING TO THE WASHER SCHEDULE BELOW, U.N.O.

WASHER SCHEDULE

BOLT SIZE	STEEL PLATE SQUARE	MALLEABLE IRON ROUND	STANDARD CUT WASHER
1/2"Φ	2 x 2 x 1/4"	2 1/2"Φ x 1/4"	1 3/8"Φ x 7/64"
5/8"Φ	2 1/2 x 2 1/2 x 1/4"	2 3/4"Φ x 5/16"	1 3/4"Φ x 1/8"
3/4"Φ	3 x 3 x 5/16"	3"Φ x 3/8"	2"Φ x 5/32"
7/8"Φ	3 1/2 x 3 1/2 x 5/8"	3 1/2"Φ x 7/16"	2 1/4"Φ x 11/64"
1"Φ	3 3/4 x 3 3/4 x 7/16"	4"Φ x 1/2"	2 1/2"Φ x 11/64"
1 1/8"Φ	4 x 4 x 7/16"	4 1/2"Φ x 9/16"	2 3/4"Φ x 11/64"
1 1/2"Φ	4 1/4 x 4 1/4 x 1/2"	5"Φ x 5/8"	3 1/2"Φ x 3/16"

4. BOLTS AND SCREWS SHALL BE TIGHTENED AT TIME OF ERECTION AND RETIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
5. ANCHOR AND/OR SILL BOLTS WITH UPSET THREADS ARE NOT PERMITTED.
6. ALL SILL PLATES SHALL BE BEDDED ON 1/2" CEMENT GROUT EXCEPT FOR NON-BEARING INTERIOR WALLS ON TRUE AND LEVEL FLOORS.
7. SILL PLATES UNDER ALL EXTERIOR AND BEARING WALLS SHALL BE BOLTED TO MASONRY OR CONCRETE WITH 5/8"Φ x 12" BOLTS SPACED NOT MORE THAN 6'-0" ON CENTER, WITH A MIN. OF 2 BOLTS FOR EACH PIECE OF SILL PLATE, U.N.O. SHEAR WALLS ABOVE 2 STORIES SHALL HAVE BOLTS SPACED NOT MORE THAN 4'-0" O.C., U.N.O. ALL SILL PLATE ANCHOR BOLTS SHALL HAVE MINIMUM 4" SQ. x 1/4" SLOTTED PLATE WASHERS (OR SIMPSON BPS) WITH A STANDARD CUT WASHER PLACED BETWEEN THE PLATE WASHER AND THE NUT, U.N.O. THE PLATE WASHER SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF THE BOTTOM PLATE ON THE SIDE(S) WITH SHEATHING.
8. ALL ANCHOR BOLTS IN WOOD SHALL BE SPACED 4 INCH MINIMUM AND 12 INCH MAXIMUM FROM END OF THE SILL PLATE, AND HAVE 7 INCH MINIMUM EMBEDMENT INTO CONCRETE OR MASONRY. ANY LOCATION WHERE A HOLE OR NOTCH LARGER THAN THE SILL PLATE THICKNESS OCCURS, SHALL HAVE ADDITIONAL ANCHOR BOLTS PLACED 4 INCHES TO 12 INCHES ON EACH SIDE OF THE HOLE OR NOTCH.
9. SILL PLATES AT ALL EXTERIOR WALLS AND INTERIOR WALLS THAT ARE COVERED WITH STRUCTURAL PLYWOOD (SHEAR PANEL) SHALL BE PRESERVATIVE-TREATED D.F. 3x THICK WITH THE SAME WIDTH AS STUDS, U.N.O. ALL OTHER WALLS THE SAME EXCEPT SILL PLATES MAY BE 2x THICK. ALL PRESERVATIVE-TREATED D.F. SHALL BEAR THE AWPB QUALITY MARK. ALL CUTS OR HOLES SHALL BE PRE-TREATED PRIOR TO INSTALLATION.
10. NO SILL PLATE PIECE SHALL END WITHIN THE LENGTH OF SHEAR PANEL UNLESS SPECIFICALLY SHOWN AND DETAILED ON THE PLANS.
11. ALL EXPOSED FASTENERS SHALL HAVE ZINC-COATING CORROSION RESISTANCE.
12. ALL FASTENERS AND HARDWARE IN CONTACT WITH PRESERVATIVE-TREATED OR FIRE RETARDANT WOOD SHALL BE HOT DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. THE COATING WEIGHT FOR ZINC-COATED FASTENERS SHALL BE IN ACCORDANCE WITH A.S.T.M. A 153. EXCEPTION: FASTENERS OTHER THAN NAILS, TIMBER RIVETS, WOOD SCREWS AND LAG SCREWS SHALL BE PERMITTED TO BE OF MECHANICALLY DEPOSITED ZINC COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH A.S.T.M. B 695, CLASS 55 MIN.
13. BEARING WALLS AND PARTITIONS SHALL HAVE DOUBLE TOP PLATES.
14. ALL FASCIA BOARDS MUST BE CONTINUOUS WITH NO SPLICES ALLOWED WITHIN 12'-0" MINIMUM FROM FRAMING CORNERS, UNLESS NOTED OTHERWISE.
15. PLYWOOD NOTES:
    - IN HORIZONTAL PLYWOOD DIAPHRAGMS, NO PANEL LESS THAN 24" WIDE SHALL BE USED. IN VERTICAL PLYWOOD SHEAR WALLS, NO PANEL LESS THAN 12" WIDE SHALL BE USED. PLYWOOD SHEETS SHALL NOT BE LESS THAN 8 SQUARE FEET AT ANY LOCATION. PROVIDE FULL SHEETS OF PLYWOOD WHEREVER POSSIBLE.
    - ANY PIECE OF PLYWOOD SPANNING ACROSS FEWER THAN 3 SUPPORTS SHALL BE BLOCKED ON ALL EDGES.
    - SHEAR WALL PLYWOOD SHALL BE BLOCKED AT ALL EDGES.
    - DIAPHRAGM AND SHEAR WALL NAILING SHALL CONFORM TO SECTION 2306.2 AND 2306.3 OF C.B.C. 2025.
    - NAILS SHALL NOT BE OVER DRIVEN AS TO CAUSE CRUSHING OF FACEPLY.
    - WHERE GLUING OF PLYWOOD IS REQUIRED, INSURE THAT CONTACT SURFACES ARE FREE OF DIRE, DUST, STANDING WATER OR OTHER DELETERIOUS MATTER. APPLY A BEAD OF GLUE ABOUT 1/4 INCH IN DIAMETER TO ALL CONTACT/ BEARING SURFACES. ON WIDE AREAS, APPLY GLUE IN SERPENTINE PATTERN. APPLY TWO BEADS OF GLUE ON JOISTS WHERE PANEL ENDS BUTT TO EACH OTHER. APPLY GLUE PROGRESSIVELY TO BUTTING EDGES OF PANELS AND INTO THE GROOVED EDGES OF TONGUE AND GROVE PANELS AS WORK PROGRESSES. ADHESIVE SHALL CONFORM TO A.P.A. SPEC AFG-01.
16. ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
    - DOUGLAS FIR - LARCH . . . . . . WCLIB OR WWPA RULES
    - PLYWOOD . . . . U.S. PRODUCT STANDARD PS1-07 FOR SOFTWOOD PLYWD
17. MINIMUM GRADES SHALL BE AS FOLLOWS U.N.O. ON DRAWINGS:
    - STRUCTURAL FRAMING. . . . . DF NO. 1 OR BETTER
    - 4x AND LARGER AND POST. . . . . DF NO. 1 OR BETTER
    - STRUCTURAL PLYWOOD. . . . . . . PLYWOOD SHEATHING, GROUP 1, EXP. 1, U.N.O.
18. PREDRILL HOLES WHERE WOOD TENDS TO SPLIT.
19. WHERE LAG SCREWS ARE INDICATED, PROVIDE A FULL BODY DIAMETER LAG SCREW. THE SHANK SHALL EXTEND BEYOND THE ADJOINING MEMBER PLANE, U.N.O. LAG SCREWS SHALL NOT HAVE UPSET THREADS OR REDUCED BODY.
20. FOR LAG SCREWS, LEAD HOLE FOR THE UNTHREADED PORTION SHALL HAVE A DIAMETER EQUAL TO THE SHANK DIAMETER AND THREADED PORTION SHALL HAVE A DIAMETER EQUAL TO 65% OF THE SHANK DIAMETER. MINIMUM PENETRATION (NOT INCLUDING THE LENGTH OF TAPERED TIP) OF THE LAG SCREW INTO MAIN MEMBER SHALL BE EIGHT TIMES THE DIAMETER. LEAD HOLES ARE NOT REQUIRED FOR 3/8" AND SMALLER DIAMETER LAG SCREWS PROVIDED THAT EDGE DISTANCES, END DISTANCES, AND SPACING ARE SUFFICIENT TO PREVENT UNUSUAL SPLITTING.
21. SEE NAILING SCHEDULE FOR MINIMUM NAILING REQUIREMENTS.
22. USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOB SITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND D.S.A./O.S.H.P.D. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD. IF NAIL HEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MIN. ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.

N4 HILTI KWIK BOLT TZ2 IN CONC.
X/S101 NOT TO SCALE

1. EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT TZ2 AS MANUFACTURED BY HILTI, INC., 7250 DALLAS PARKWAY, SUITE 1000, PLANO, TEXAS 75024. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND I.C.C. REPORT NO. ESR-4266.
2. TEST VALUES AND INSTALLATION REQUIREMENTS SHALL BE AS FOLLOWS:

BOLT SIZE	MIN. EMBED	CONC. THKS.	TENSION TEST	TORQUE TEST (C.S.)	TORQUE TEST (S.S.)
3/8"	2"	4"	1100#	30 #-FT	30 #-FT
1/2"	2 1/2"	5"	2000#	50 #-FT	40 #-FT
5/8"	4"	6"	2300#	40 #-FT	60 #-FT
3/4"	4 3/4"	8"	3700#	110 #-FT	125 #-FT

3. PLACEMENT GUIDELINES FOR ABOVE VALUES IN ITEM 2 REQUIRE THE FOLLOWING CONDITIONS:
    - TABLE VALUES ARE BASED ON f'c = 3000 PSI
    - HOLES DRILLED WITH A HAMMER DRILL AND CARBIDE BIT COMPLYING W/ ANSI B212.15-1994
    - BIT DIAMETER EQUALS THE SIZE OF THE ANCHOR BEING INSTALLED
    - HOLE DEPTH MUST EXCEED MIN. EMBED. BY ONE BOLT DIAMETER
    - ANY SEISMIC DESIGN CATEGORY PER 2022 C.B.C.
    - TENSION LOAD VALUES SHALL BE MULTIPLIED BY 0.6 FOR LIGHTWEIGHT CONCRETE
    - A.C.I. "CRACKED" CONCRETE CONDITION IS SUFFICIENT
    - FOR CARBON OR STAINLESS STEEL BOLTS
4. WHEN INSTALLING EXPANSION ANCHORS IN EXISTING CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE-INCH BETWEEN THE EXISTING REINFORCEMENT AND THE EXPANSION ANCHOR.
5. ANY BOLTS SHOWN ON THE APPROVED PLANS AS EXPANSION ANCHORS, REQUIRES SPECIAL INSPECTION IN ACCORDANCE WITH SECTION 4.4 IN THE I.C.C. REPORT. SPECIAL INSPECTION SHALL BE BY AN APPROVED TESTING AND INSPECTION AGENCY. ANY ITEMS THAT REQUIRE EXPANSION ANCHORS BUT ARE NOT SPECIFICALLY SHOWN ON THE APPROVED PLANS MUST BE APPROVED BY THE STRUCTURAL ENGINEER AND D.S.A./H.C.A.I. PRIOR TO INSTALLATION.

J4 "SHOT PIN" NOTES FOR HILTI X-U
X/S101 NOT TO SCALE

1. THESE NOTES GOVERN ALL CONDITIONS CALLED OUT ON THE PLANS AS "SHOT PINS" UNLESS SPECIFICALLY NOTED OTHERWISE.
2. ALL SHOT PINS SHALL BE AS MANUFACTURED BY HILTI, INCORP. REFERENCE SHALL BE MADE TO THE LATEST EDITION OF THE HILTI 'PRODUCT TECHNICAL GUIDE' AND THE ICC-ES ESR-2269 REPORT FOR ADDITIONAL INFORMATION.
3. SHOT PINS DRIVEN INTO STEEL BASE MATERIAL SHALL BE X-U TYPE WITH P8 WASHERS. LENGTH OF PIN SHALL BE AS REQUIRED TO PENETRATE THROUGH THE STEEL BASE MATERIAL. MINIMUM EDGE DISTANCE TO ANY CONNECTED PART SHALL BE 1/2" AND MINIMUM FASTENER SPACING SHALL BE 2". ENTIRE POINTED END OF PIN MUST PENETRATE THROUGH STEEL LESS THAN 1/2" THICK OR PENETRATE A MINIMUM OF 1/2" INTO STEEL 1/2" THICK OR GREATER. PINS IN STEEL SUBJECT TO WITHDRAW LOADS ARE REQUIRED TO HAVE KNURLED SHANK.
4. SHOT PINS DRIVEN INTO CONCRETE BASE MATERIAL SHALL BE X-U TYPE WITH P8 WASHERS. LENGTH OF PIN SHALL BE AS REQUIRED TO PENETRATE 1 1/2" INTO THE CONCRETE BASE MATERIAL. MINIMUM EDGE DISTANCE TO ANY CONCRETE MATERIAL SHALL BE 3" AND MINIMUM FASTENER SPACING SHALL BE 4".
5. SHOT PINS DRIVEN INTO CONCRETE BASE MATERIAL THROUGH METAL DECK SHALL BE X-U TYPE WITH P8 WASHERS. LENGTH OF PIN SHALL BE AS REQUIRED TO PENETRATE 1" INTO THE CONCRETE THROUGH THE LOW FLUTE. PIN SHALL BE CENTERED IN THE LOW FLUTE AND MINIMUM FASTENER SPACING SHALL BE 4".
6. WHERE STEEL WASHERS ARE INDICATED ON THE DRAWINGS, PINS SHALL BE X-U WITH PREMOUNTED STEEL WASHERS WITH A MINIMUM DIAMETER OF 36mm (1 7/16").

E4 SIMPSON SET-3G EPOXY NOTES
X/S101 NOT TO SCALE

1. EPOXY INTO CONCRETE SHALL BE SIMPSON SET-3G ADHESIVE AS MANUFACTURED BY SIMPSON STRONG-TIE CO.,INC. 5956 W. LAS POSITAS BLVD., PLEASANTON, CA. 94588. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND I.C.C. REPORT NO. ESR-4057.
2. TEST VALUES AND INSTALLATION REQUIREMENTS SHALL BE AS FOLLOWS:

BAR SIZE	BOLT SIZE	MIN. EMBEDMENT	TENSION TEST(POUNDS)
#4	1/2"	2 3/4"	2340
#5	5/8"	3 1/8"	2710
#6	3/4"	3 1/2"	2620

3. PLACEMENT GUIDELINES FOR ABOVE VALUES REQUIRE THE FOLLOWING CONDITIONS:
    - TABLE VALUES ARE BASED ON f'c = 3000 psi
    - 6" MIN. EDGE DISTANCE ON ONE SIDE AND SPACING = 3x EMBED. DEPTH
    - HOLES DRILLED WITH A HAMMER DRILL AND CARBIDE BIT
    - BIT DIAMETER EQUALS (BAR DIAMETER) + 1/8"
    - HOLES SHALL BE DRY
    - MAX. LONG TERM TEMPS OF 110° F OR LESS & MAX. SHORT TERM OF 150° F OR LESS
    - TEMP. OF CONCRETE SHALL BE KEPT ABOVE 50° F DURING ENTIRE CURE TIME
    - ANY SEISMIC DESIGN CATEGORY PER 2022 C.B.C., CONDITION B IS ASSUMED
    - A.S.T.M. A615 GRADE 60 REBAR OR A.S.T.M. A193 GRADE B7 THREADED RODS
    - A.C.I. "CRACKED" CONCRETE CONDITION IS SUFFICIENT
    - DEPTH/THICKNESS OF CONCRETE BEING ATTACHED TO MUST BE AT LEAST EQUAL TO THE EMBEDMENT DEPTH + (5)BAR DIAMETERS.
    - HOLES SHALL BE CLEANED ACCORDING TO THE ICC REPORT NO. ESR-2508
4. WHEN INSTALLING EPOXIED REBAR/BOLTS IN (E) CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE (E) REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF (1) INCH BETWEEN THE (E) REINFORCEMENT AND THE EPOXIED REBAR/BOLT.
5. ANY REBAR/BOLTS SHOWN ON THE APPROVED PLANS AS BEING EPOXIED, REQUIRES CONTINUOUS SPECIAL INSPECTION IN ACCORDANCE WITH SECTION 4.5 IN THE I.C.C. REPORT. SPECIAL INSPECTION SHALL BE BY AN APPROVED TESTING AND INSPECTION AGENCY. ANY ITEMS THAT REQUIRE EPOXY BUT ARE NOT SPECIFICALLY SHOWN AS BEING EPOXIED ON THE APPROVED PLANS MUST BE APPROVED BY THE STRUCTURAL ENGINEER AND D.S.A./H.C.A.I. PRIOR TO INSTALLATION.
6. PULL TESTING SHALL BE DONE IN ACCORDANCE WITH D.S.A./H.C.A.I. GUIDELINES WHEN REQUIRED.

A4 HILTI HIT-HY 200 V3 EPOXY NOTES
X/S101 NOT TO SCALE

1. EPOXY SHALL BE HILTI HIT-HY 200 V3 ADHESIVE AS MANUFACTURED BY HILTI, INC., 7250 DALLAS PARKWAY, SUITE 1000, PLANO, TEXAS 75024. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND I.C.C. REPORT NO. ESR-4868.
2. TEST VALUES AND INSTALLATION REQUIREMENTS SHALL BE AS FOLLOWS:

BAR SIZE	BOLT SIZE	MIN. EMBEDMENT	TEST LOAD (POUNDS)
#4	1/2"	4 1/2"	1190
#5	5/8"	5 5/8"	1540
#6	3/4"	6 3/4"	2190

3. PLACEMENT GUIDELINES FOR ABOVE VALUES IN ITEM 2 REQUIRE THE FOLLOWING CONDITIONS.
    - TABLE VALUES ARE BASED ON f'c = 3000 PSI
    - 6" MIN. EDGE DISTANCE & 12" MIN. BOLT/BAR SPACING
    - HOLES DRILLED WITH A HAMMER DRILL AND CARBIDE BIT
    - BIT DIAMETER EQUALS (BAR DIAMETER) + 1/8"
    - HOLES SHALL BE DRY OR WATER-SATURATED, BUT NOT WATER FILLED
    - MAX. LONG TERM TEMPS OF 110° F OR LESS & MAX. SHORT TERM OF 162° F OR LESS
    - ANY SEISMIC DESIGN CATEGORY PER 2022 C.B.C.
    - A.S.T.M. A615 GRADE 60 REBAR
    - A.S.T.M. A193 GRADE B7 THREADED RODS
    - A.C.I. "CRACKED" CONCRETE CONDITION IS SUFFICIENT
    - DEPTH/THICKNESS OF CONCRETE BEING ATTACHED TO MUST BE AT LEAST 1 1/2" GREATER THAN THE EMBEDMENT DEPTH.
4. WHEN INSTALLING EPOXIED REBAR/BOLTS IN EXISTING CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE-INCH BETWEEN THE EXISTING REINFORCEMENT AND THE EPOXIED REBAR/BOLT.
5. ANY REBAR/BOLTS SHOWN ON THE APPROVED PLANS AS BEING EPOXIED, REQUIRES SPECIAL INSPECTION IN ACCORDANCE WITH SECTION 4.4 IN THE I.C.C. REPORT. SPECIAL INSPECTION SHALL BE BY AN APPROVED TESTING AND INSPECTION AGENCY. ANY ITEMS THAT REQUIRE EPOXY BUT ARE NOT SPECIFICALLY SHOWN AS BEING EPOXIED ON THE APPROVED PLANS MUST BE APPROVED BY THE STRUCTURAL ENGINEER AND D.S.A./H.C.A.I. PRIOR TO INSTALLATION.

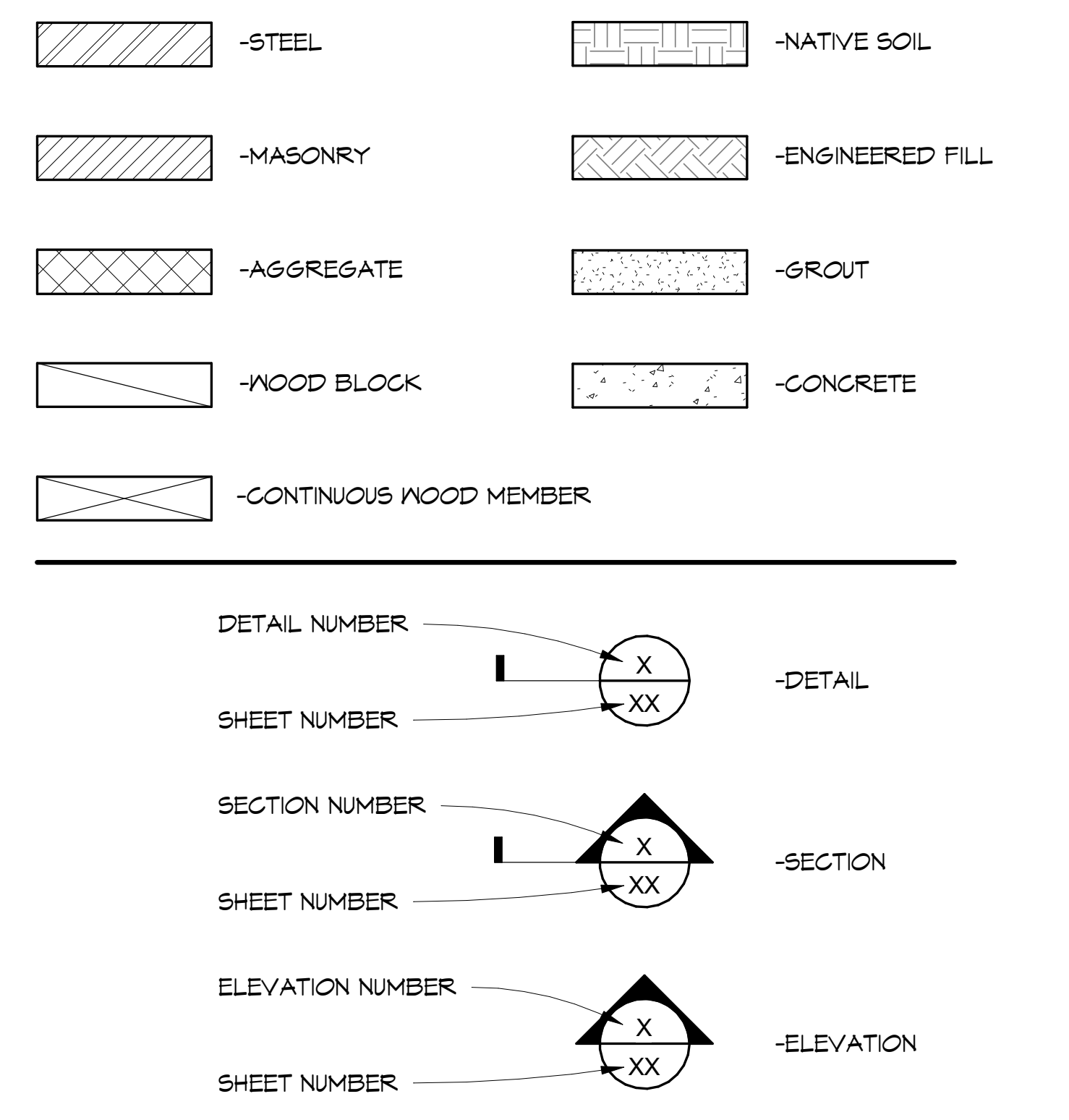
E7 FOUNDATION AND CONC. NOTES
X/S101 NOT TO SCALE

1. FOUNDATIONS SHALL BEAR ON ENGINEERED FILL OR NATIVE SOIL A MINIMUM OF 18" BELOW ADJACENT GRADE OR FINISHED GRADE U.N.O. IN A SOILS REPORT.
2. MAXIMUM SIZE AGGREGATE SHALL BE AS FOLLOWS:
    - SLAB ON GRADE: 1"
    - CONCRETE OVER METAL DECK: 3/8"
    - FOOTINGS: 1 1/2"
    - COLUMNS & WALLS: 1 1/2"
3. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE AS FOLLOWS:
    - 4000 PSI NORMAL WEIGHT SLAB ON GRADE
    - 3000 PSI LIGHT WEIGHT CONCRETE OVER METAL DECK
    - 3000 PSI NORMAL WEIGHT FOOTINGS
    - 4000 PSI NORMAL WEIGHT CONCRETE COLUMNS & WALLS.
4. MAXIMUM WATER CEMENT RATIOS SHALL BE AS FOLLOWS:
    - 0.45 SLAB ON GRADE
    - 0.45 CONCRETE OVER METAL DECK
    - 0.50 COLUMNS & WALLS
    - 0.58 FOOTINGS
5. LIGHT WEIGHT CONCRETE REFERS TO THE USE OF LIGHT WEIGHT COARSE AGGREGATES (A.S.T.M.C330) WITH SAND FINES RESULTING IN CONCRETE DRY DENSITIES OF 110 LBS. (±3 LBS.) PER CU. FT. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6. THICKNESS OF CONCRETE FILL OVER METAL DECK PER PLANS ARE MINIMUM THICKNESSES. CONTRACTOR SHALL MAKE ALLOWANCES FOR ADDITIONAL FILL REQUIRED TO COMPENSATE FOR BEAM AND DECK DEFLECTIONS AND TO MAINTAIN SURFACE TOLERANCES PER PLANS AND SPECIFICATIONS.
7. FOR CONCRETE FILL OVER METAL DECK, THE MAXIMUM LENGTH OF SLAB POUR SHALL NOT EXCEED 80'-0" AND THE MAXIMUM AREA OF THE POUR SHALL NOT EXCEED 6,400 SQUARE FEET BETWEEN CONSTRUCTION JOINTS.
8. THE FOLLOWING ARE MINIMUM CONCRETE COVER DIMENSIONS PER A.C.I. 318-19 SECTION 20.5.1. THEY ARE FROM FACE OF REINFORCING STEEL TO FACE OF CONCRETE. ALL REINFORCING STEEL SHALL MAINTAIN THE FOLLOWING CLEAR DISTANCES, U.N.O.
    - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
    - CONCRETE EXPOSED TO EARTH OR WEATHER: (NO. 6 THROUGH NO. 18) 2"
      (NO. 5 AND SMALLER) 1 1/2"
    - CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
      SLABS, WALLS AND JOISTS: (NO. 14 AND NO. 18) 1 1/2"
      (NO. 11 AND SMALLER) 3/4"
      BEAMS AND COLUMNS: (ALL SIZES) 1 1/2"
      SHELLS AND FOLDED PLATE MEMBERS: (NO. 6 AND LARGER) 3/4"
      (NO. 5 AND SMALLER) 1/2"
    - PLACE REINF. AT MID-THICKNESS FOR SLABS ON GRADE.
9. CONSTRUCTION LOADS SHALL NOT BE PLACED ON NEW CONCRETE CONSTRUCTION, INCLUDING CONCRETE TOPPING ON METAL DECK, FOR AT LEAST 7 DAYS AFTER CONCRETE PLACEMENT OR WITH APPROVAL BY ENGINEER.
10. ALL SPLICES IN CONTINUOUS REINFORCEMENT USED IN WALLS, FOOTINGS, ETC. SHALL HAVE A MINIMUM LAP AS DESCRIBED IN THE TYPICAL **LAP SPLICE** DETAIL. SPLICES IN ADJACENT BARS SHALL NOT BE LESS THAN 4'-0" APART. VERTICAL WALL BARS SHALL BE SPLICED AT OR NEAR FLOOR LINES. OR WHERE SPECIFICALLY DETAILED TO BE SEPARATED.
11. ALL REINFORCEMENT CROSSING CONSTRUCTION JOINTS SHALL BE CONTINUOUS, OR SHALL BE MADE EFFECTIVELY CONTINUOUS BY USE OF FULLY DEVELOPED LAP SPLICES, DOWELS (WITH LAPPED SPLICES) OR APPROVED COUPLERS.
12. HORIZONTAL CONSTRUCTION JOINTS SHALL HAVE ENTIRE SURFACE REMOVED TO EXPOSE\CLEAN AGGREGATE SOLIDLY EMBEDDED.
13. CONCRETE SHALL NOT BE DROPPED THROUGH REINF. STEEL (AS IN WALL) SO AS TO CAUSE SEGREGATION OF AGGREGATES. IN SUCH CASES, HOPPERS AND VERTICAL CHUTES OR TRUNKS SHALL BE USED. CHUTES OR TRUNKS SHALL BE OF VARIABLE LENGTHS SO THAT FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED FIVE (5) FEET AND A SUFFICIENT NUMBER OF CHUTES AND TRUNKS SHALL BE USED TO ENSURE THE CONCRETE REMAINS LEVEL AT ALL TIMES.
14. ALL STEEL COLUMN BASE PLATES AND STEEL BEAMS BEARING ON CONCRETE SHALL BEAR UPON 1 1/2" OF NON-SHRINK, 6,000 PSI MIN, GROUT PADS AND LEVELING NUTS, U.N.O.
15. WHERE STEEL MEMBERS BEAR IN CONCRETE OR MASONRY WALLS, OPENINGS SHALL BE DRY-PACKED AFTER STEEL IS IN PLACE.
16. CONTRACTOR SHALL SUBMIT PROPOSED POUR SCHEDULE FOR ENGINEER'S APPROVAL PRIOR TO THE FORMING OR POURING OF ANY CONCRETE WORK.
17. PROVIDE 3/4" CHAMFER AT EXPOSED EDGES OF CONCRETE BEAMS, COLUMNS AND WALLS UNLESS NOTED OTHERWISE.
18. THE CONTRACTOR SHALL FURNISH AND INSTALL 1/2" PRE-MOLDED EXPANSION JOINTS IN ALL EXTERIOR WALKS AND SLABS AS INDICATED ON DRAWINGS, BUT IN NO CASE MORE THAN 24'-0" O.C.
19. ALL REINFORCING SHALL CONFORM TO A.S.T.M. A615 AND SHALL BE GRADE 40 FOR #3, GRADE 60 FOR #4 AND LARGER.
20. COLUMN SPIRALS SHALL CONFORM TO "STANDARD SPECIFICATION FOR COLD-DRAWING STEEL FOR CONCRETE REINFORCEMENT" ASTM A82 WITH A MINIMUM YIELD STRENGTH OF 60,000 PSI. FABRICATION SHALL CONFORM TO ACI MANUAL OF STANDARD PRACTICE.
21. WELDED WIRE FABRIC SHALL CONFORM TO A.S.T.M. A185.
22. ALL WELDING OF REINFORCING STEEL SHALL BE WITH LOW HYDROGEN ELECTRODES U.N.O. WELDING OF REINFORCING SHALL BE ALLOWED ONLY WHERE DETAILED ON DRAWINGS. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AMERICAN WELDING SOCIETY SPECIFICATIONS A.W.S. D1.4. WELDING SHALL NOT BE DONE WITHIN TWO BAR DIAMETERS OF ANY BENT PORTION OF A BAR WHICH HAS BEEN BENT COLD. WELDING OF CROSSING BARS SHALL NOT BE PERMITTED FOR ASSEMBLY OF REINFORCEMENT UNLESS AUTHORIZED BY THE STRUCTURAL ENGINEER OF RECORD. A.S.T.M. A706 REINFORCING SHALL BE USED FOR ALL REINFORCING THAT IS BEING WELDED.
23. WHERE DRILLED PIERS ARE USED, CONTRACTOR IS RESPONSIBLE TO PROVIDE MEASURES TO DRILL HOLE PER PLANS BY USE OF CASING IF UNFORESEEN SOIL CONDITIONS ARE ENCOUNTERED.

J11 ABBREVIATIONS
X/S101 NOT TO SCALE

A.B.	ANCHOR BOLT
ABV.	ABOVE
A.C.I.	AMERICAN CONCRETE INSTITUTE
ADDL.	ADDITIONAL
A.E.S.A.	ARCHITECTURAL EXPOSED STEEL
A.F.P.A.	AMERICAN FOREST AND PAPER ASSOCIATION
A.I.S.C.	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
A.I.T.C.	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
ALT.	ALTERNATE
A.P.A.	AMERICAN PLYWOOD ASSOCIATION
ARCH.	ARCHITECT(URAL)
A.E.S.S.	ARCHITECTURAL EXPOSED STRUCTURAL STEEL
A.S.C.E.	AMERICAN SOCIETY OF CIVIL ENGINEERS
A.S.T.M.	AMERICAN SOCIETY FOR TESTING & MATERIALS
A.W.S.	AMERICAN WELDING SOCIETY
BLDG.	BUILDING
BLK.	BLOCK,
BLKG.	BLOCKING
BM.	BEAM
B.O.	BOTTOM OF
BOT.	BOTTOM
C	CHANNEL
C.B.C.	CALIFORNIA BUILDING CODE
CDX	C-D EXPOSURE 1
C.J.	CONSTRUCTION JOINT
CL	CENTERLINE
CLG.	CEILING
CLR.	CLEAR
C.M.U.	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONT.	CONTINUOUS
CTSK.	COUNTERSINK
d	PENNY NAILS
DBL.	DOUBLE
DEMO.	DEMOLISH
DET., DTL.	DETAIL
DF	DOUGLAS FIR
DIA., Φ	DIAMETER
DIAG.	DIAGONAL
DIM.	DIMENSION
DL	DEAD LOAD
DO	DITTO / DO OVER
DP	DEEP
D.S.A.	DEPARTMENT OF STATE ARCHITECT
DWG	DRAWING
(E)	EXISTING
EA.	EACH
ELEV.	ELEVATION
E.N.	EDGE NAILING
ENGR.	ENGINEER
EQ.	EQUAL
EQUIP.	EQUIPMENT
EXP.	EXPANSION
E.W.	EACH WAY
FDN.	FOUNDATION
F.E.M.A.	FEDERAL EMERGENCY MANAGEMENT AGENCY
F.F.	FINISH FLOOR
FIN.	FINISH
FLR.	FLOOR
F.N.	FIELD NAILING
FRMG.	FRAMING
FT., FTG.	FOOT, FOOTING
F.V.	FIELD VERIFY
GA.	GAUGE
GALV.	GALVANIZED
GLB	GLUE LAMINATED BEAM
H.D.	HOLDOWN
HDR.	HEADER
HGR.	HANGER
HORIZ.	HORIZONTAL
HSS	HOLLOW STRUCTURAL SECTION
HT.	HEIGHT
I.B.C.	INTERNATIONAL BUILDING CODE
I.C.C.	INTERNATIONAL CODE COUNCIL
IN	INCH
I.D.	INSIDE DIAMETER
INT.	INTERIOR
I.R.	INTERPRETATION OF REGULATIONS
JST.	JOIST
K	KIPS
KSI	KIPS PER SQUARE INCH
L	ANGLE
LBS, #	POUNDS (XXX LBS, XXX#)
LL	LIVE LOAD
LLV(LLH)	LONG LEG VERTICAL (HORIZ.)
LOC.	LOCATION
LSL	LAMINATED STRAND LUMBER
LT. WT.	LIGHT WEIGHT
LVL	LAMINATED VENEER LUMBER
MAS.	MASONRY
MAX.	MAXIMUM
M.B.	MACHINE BOLT
MFR	MANUFACTURER
MIN.	MINIMUM
M.S.R.	MACHINE STRESS RATED
MTL.	METAL
(N)	NEW
NO., #	NUMBER, (NO. XX, #XX)
N.T.S.	NOT TO SCALE
O/, o/	OVER
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.H.	OPPOSITE HAND
OPNG.	OPENING
OP.	OPPOSITE
OSB	ORIENTED STRAND BOARD
O.S.H.P.D.	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
PL.	PLATE
P.T.	PRESSURE TREATED
PLYWD.	PLYWOOD
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
REINF.	REINFORCING
REQD.	REQUIRED
RM.	ROOM
SCHED.	SCHEDULE
SHTG.	SHEATHING
SHT.	SHEET
SIM.	SIMILAR
SMS	SHEET METAL SCREWS
SPEC.	SPECIFICATION
SQ.	SQUARE
STGR.	STAGGER
STD.	STANDARD
STIFF.	STIFFENER
STL.	STEEL
STRUCT.	STRUCTURAL
SYM.	SYMMETRICAL
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
THK.	THICK
TL	TOTAL LOAD
T.O.	TOP OF
TYP.	TYPICAL
U.N.O., U.O.N.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
W/, W/O	WITH, WITH OUT
WD	WOOD
W.F.	WIDE FLANGE
W.C.L.I.B.	WEST COAST LUMBER INSPECTION BUREAU
WT.	WEIGHT
W.W.F.	WELDED WIRE FABRIC
W.W.A.	WELDED WIRE MESH
W.W.P.A.	WESTERN WOOD PRODUCTS ASSOCIATION

E11 LEGENDS AND SYMBOLS
X/S101 NOT TO SCALE



A11 SPECIAL INSPECTION NOTES
X/S101 NOT TO SCALE

A SPECIAL INSPECTOR EMPLOYED BY THE OWNER IN ACCORDANCE WITH THE REQUIREMENTS OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 24 AND SECTION 1704A.2 OF THE 2022 C.B.C. SHALL BE REQUIRED TO INSPECT THE PORTIONS OF THE PROJECT LISTED BELOW. THE SPECIAL INSPECTOR'S DUTIES ARE SPECIFICALLY DEFINED BY TITLE 24. THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF INSPECTIONS AS REQUIRED IN SECTION 1704A.2.4 OF THE 2022 C.B.C. AND SUBMIT THEIR REPORTS DIRECTLY TO D.S.A./H.C.A.I.

REQUIRED AREAS OF INSPECTION	2022 C.B.C. REFERENCES
· STEEL	SECTIONS 1705A.2.1 & 1705A.12.2 & TABLE 1705A.2.3
· CONCRETE	SECTION 1705A.3 & TABLE 1705A.3
· WOOD	SECTIONS 1705A.5 & 1705A.11.1/1705A12.1
· SOILS	SECTION 1705A.6 & TABLE 1705A.6
· POST-INSTALLED ANCHORS	SECTION 1910A.5 & I.C.C. E.S.R. REPORTS
· EPOXY ADHESIVES	SECTION 1910A.5 & I.C.C. E.S.R. REPORTS

NOTE: FOR SPECIFIC REQUIREMENTS REGARDING SPECIAL INSPECTION FOR D.S.A. PROJECTS, SEE THE TESTING AND INSPECTION FORM (DSA 103) FOR THIS PROJECT.

J14 DESIGN CRITERIA
X/S101 NOT TO SCALE

CODE	
2022 CALIFORNIA BUILDING CODE	
RISK CATEGORY	TYPE III
ROOF LOAD	
DEAD LOADS	15 PSF
LIVE LOAD	20 PSF
WALL LOADS	
PARAPET WALL DEAD LOAD	5 PSF
SEISMIC LOADING CRITERIA	
SEISMIC IMPORTANCE FACTOR	1.25
MAPPED SPECTRAL ACCELERATION, MCE:	
a. Ss	0.539
b. S1	0.228
SPECTRAL RESPONSE COEFFICIENT:	
a. Fa	1.369
MAXIMUM CONSIDERED EARTHQUAKE RESPONSE ACCELERATIONS:	
a. Sms	0.738
DESIGN SPECTRAL RESPONSE ACCELERATIONS:	
a. Sds	0.492
SEISMIC DESIGN CATEGORY	D
WIND LOADING CRITERIA:	
BASIC WIND SPEED	100 MPH
EXPOSURE CATEGORY	B
VELOCITY PRESSURE EXPOSURE COEFFICIENT, Kz	0.57
TOPOGRAPHIC FACTOR, Kzt	1.00
ENCLOSURE CLASSIFICATION	ENCLOSED

A14 GENERAL PROJECT NOTES
X/S101 NOT TO SCALE

1. ANY SUBSTITUTIONS FOR STRUCTURAL ITEMS ON APPROVED PLANS SHALL BE REVIEWED BY THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO USE. REVIEW WILL BE BILLED ON A TIMEAND MATERIALS BASIS TO CONTRACTOR WITH NO GUARANTEE THE SUBSTITUTION WILL BE ALLOWED.
2. DETAILS AND NOTES ON TYPICAL SHEETS SHALL APPLY U.N.O. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR SIMILAR CONDITIONS. U.N.O.
3. DO NOT SCALE STRUCTURAL DRAWINGS. IF DIMENSIONS IN DRAWINGS ARE NOT CLEAR, OR DISCREPANCIES EXIST ON THE DRAWINGS OR SPECIFICATIONS, CONTACT THE ENGINEER.
4. SEE MECHANICAL, ELECTRICAL, AND/OR ARCHITECTURAL DRAWINGS FOR LOCATION AND SIZE OF PIPES, CONDUITS, FLOOR DRAINS, VENTS, DUCTS, DRAIN LEADERS AND OTHER SIMILAR OPENINGS NOT INDICATED ON THE STRUCTURAL DRAWINGS.
5. SEE MECHANICAL, ELECTRICAL AND/OR ARCHITECTURAL DRAWINGS FOR EMBEDMENT OF BOLTS, ANCHORS AND OTHER MISCELLANEOUS EMBEDDED ITEMS NOT SHOWN ON STRUCTURAL DRAWINGS.
6. THE DESIGN, FABRICATION AND CONSTRUCTION SHALL COMPLY WITH ACCEPTED LOCAL GOVERNING CODES OF THE PARTICULAR AREA.
7. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE SHOWN, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL SOLELY AND COMPLETELY BE RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
8. THE DUTY OF THE ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.
9. CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ENGINEER WHETHER PERFORMED PRIOR TO, DURING, OR AFTER COMPLETION OF CONSTRUCTION ARE PERFORMED SOLELY FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DRAWINGS AND SPECIFICATIONS, BUT THEY DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.
10. ALL WORK SHALL CONFORM TO THE LATEST APPLICABLE CONSTRUCTION SAFETY REQUIREMENTS OF O.S.H.A. AND ANY OTHER GOVERNMENTAL ENTITY HAVING JURISDICTION.
11. SHOP DRAWINGS:
    - SHOP DRAWINGS SHALL BE SUBMITTED PER PROJECT SPECIFICATIONS.
    - PRIOR TO SUBMISSION, THE CONTRACTOR SHALL REVIEW ALL SUBMITTALS FOR CONFORMANCE WITH THE APPROVED DOCUMENTS AND SHALL STAMP SUBMITTALS AS BEING "REVIEWED FOR CONFORMANCE" TO APPROVED CONTRACT DOCUMENTS.
    - THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE DESIGN TEAM THAT HE AND THE SUBCONTRACTOR UNDERSTAND THE DESIGN CONCEPT BY INDICATING WHICH MATERIAL HE INTENDS TO FURNISH AND INSTALL, AND BY DETAILING THE FABRICATION AND INSTALLATION METHODS HE INTENDS TO USE.
    - DESIGN DOCUMENTS ARE NOT SHOP DRAWINGS AND SHALL NOT BE SUBMITTED AS SUCH.
12. ALL NOTES SPECIFIED ON PLANS AND IN DETAILS WITH THE WORD "TYPICAL" FOLLOWED BY **BOLD AND UNDERLINED** TEXT REFER TO THE TYPICAL PROJECT DETAILS ON S1 SERIES SHEETS. TYPICAL DETAILS ARE NOT SPECIFICALLY REFERENCED ON PLANS AND SPECIFIC DETAIL U.N.O.

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

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STATE OF CALIFORNIA

Consultant

Community Day School Modernization
Merced City Unified School District
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Project

TYPICAL INFORMATION
TYPICAL PROJECT NOTES AND DETAILS
Drawing

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PLANNING
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LICENSED ARCHITECT
GRANT E. DODSON
No. C-20,307
Ren. 6-30-27
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: GR	
Scale: 12" = 1'-0"	Drawn By: GR	X/S101
Project Number: 2533	Checked By: SOC	
Date: 2/9/2026	Reviewed By SOC	

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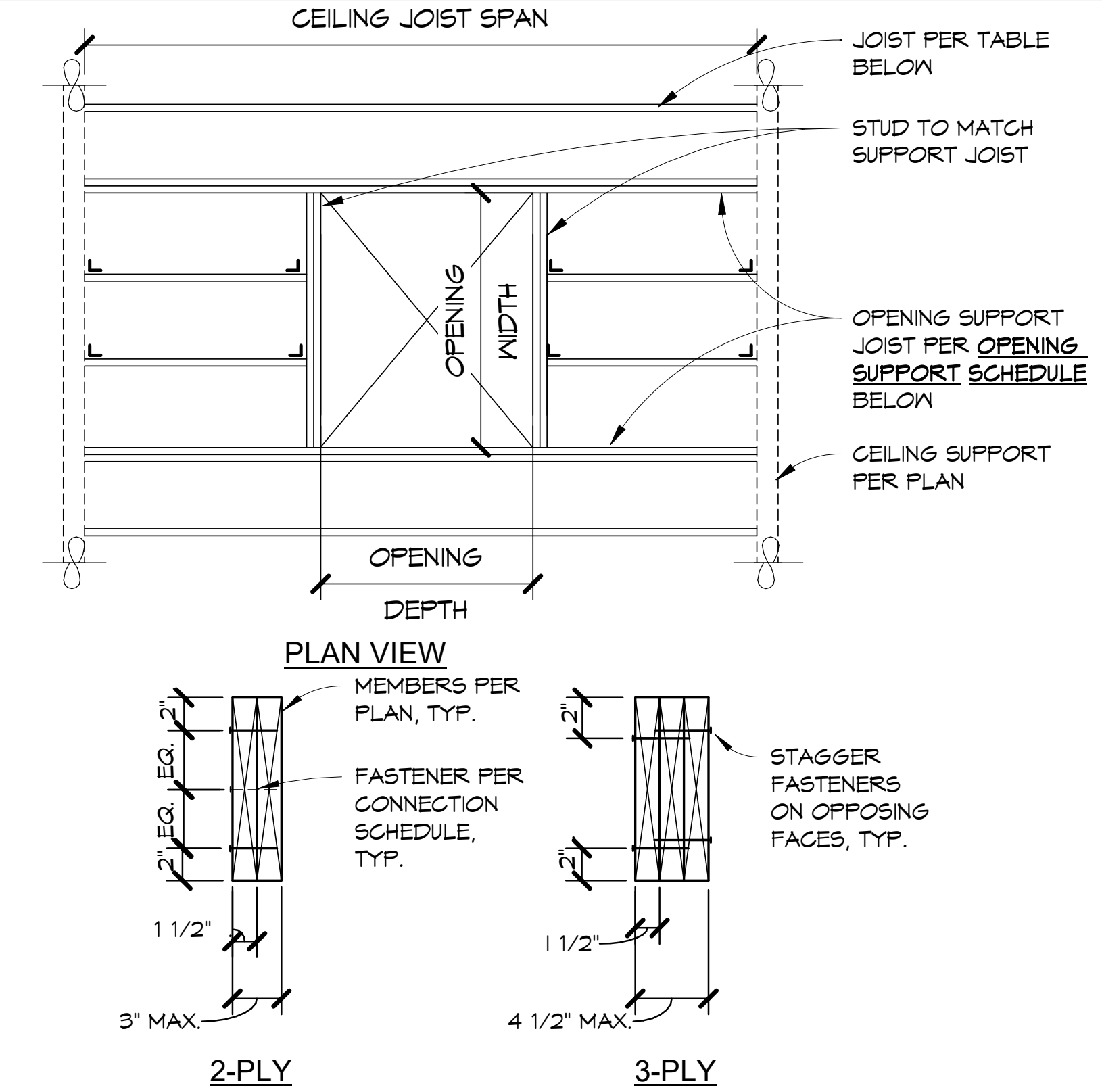
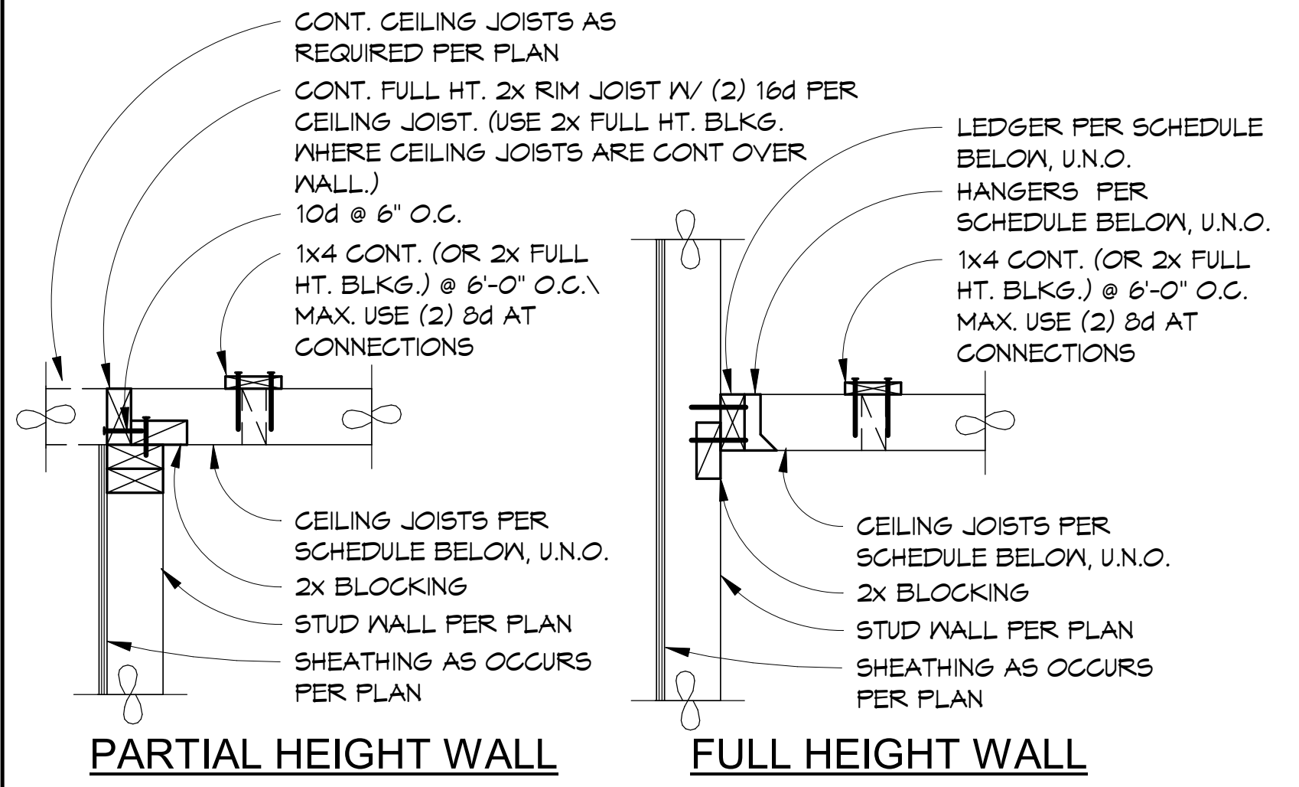


OPENING SUPPORT SCHEDULE

OPENING WIDTH	JOIST TYPE	CONNECTION TYPE
16" MAX.	SINGLE JOIST	A35 OR LUS26
32" MAX.	DOUBLE JOIST	HHUS26-2
48" MAX.	TRIPLE JOIST	HGUS26-3


CONT. CEILING JOISTS AS REQUIRED PER PLAN
CONT. FULL HT. 2x RIM JOIST W/ (2) 16d PER CEILING JOIST. (USE 2x FULL HT. BLKG. WHERE CEILING JOISTS ARE CONT OVER WALL.)
10d @ 6" O.C.
1x4 CONT. (OR 2x FULL HT. BLKG.) @ 6'-0" O.C.\ MAX. USE (2) 8d AT CONNECTIONS
CEILING JOISTS PER SCHEDULE BELOW, U.N.O.
2x BLOCKING
STUD WALL PER PLAN
SHEATHING AS OCCURS PER PLAN
PARTIAL HEIGHT WALL
LEDGER PER SCHEDULE BELOW, U.N.O.
HANGERS PER SCHEDULE BELOW, U.N.O.
1x4 CONT. (OR 2x FULL HT. BLKG.) @ 6'-0" O.C. MAX. USE (2) 8d AT CONNECTIONS
CEILING JOISTS PER SCHEDULE BELOW, U.N.O.
2x BLOCKING
STUD WALL PER PLAN
SHEATHING AS OCCURS PER PLAN
FULL HEIGHT WALL

CEILING JOIST SCHEDULE

MAX SPAN.	SIZE/SPACING	SIMPSON HANGER	LEDGE SIZE / ATTACHMENT
UP TO 8'-0"	2x4 @ 16" O.C.	LUS24	2x4 W/ (2) 16d PER STUD
8'-1" TO 14'-0"	2x6 @ 16" O.C.	LUS26	2x6 W/ (2) 16d PER STUD
14'-0" TO 18'-0"	2x8 @ 16" O.C.	LUS28	2x8 W/ (3) 16d PER STUD

J1 CEILING JOIST SCHED. AT OPENINGS
X/S102 NOT TO SCALE

NAILING SCHEDULE

#	CONNECTION	FASTENING [a,g,h,i]		LOCATION
1.	JOIST TO SILL OR GIRDER	3 - 8d		TOENAIL
2.	BRIDGING TO JOIST	2 - 8d		TOENAIL EACH END
3.	1"x6" SUBFLOOR OR LESS TO EACH JOIST	2 - 8d		FACE NAIL
4.	1"x6" SUBFLOOR OR GREATER TO EACH JOIST	3 - 8d		FACE NAIL
5.	2" SUBFLOOR TO JOIST OR GIRDER	2 - 16d		BLIND & FACE NAIL
6.	SOLE PLATE TO JOIST OR BLOCKING	16d @ 16" O.C.		TYPICAL FACE NAIL
	SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANEL	3 - 16d @ 16"O.C.		BRACED WALL PANELS
7.	TOP PLATE TO STUD	2- 16d		END NAIL
8.	STUD TO SOLE PLATE	4 - 8d 2 - 16d		TOENAIL END NAIL
9.	DOUBLE STUDS	16d @ 24" O.C.		FACE NAIL
10.	DOUBLE 2x TOP PLATE	16d @ 16" O.C. 8 - 16d		FACE NAIL LAP SPLICE
	3x TOP PLATE OVER 2X PLATE	20d @ 16"O.C. 8 - 20d		FACE NAIL LAP SPLICE
11.	BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	3 - 8d		TOENAIL
12.	RIM JOIST TO TOP PLATE	8d @ 6" O.C.		TOENAIL
13.	TOP PLATES, LAPS & INTERSECTIONS	2 - 16d		FACE NAIL
14.	CONTINUOUS HEADER, TWO PIECES	16d		16" O.C. @ EDGE
15.	CEILING JOISTS TO PLATE	3 - 8d		TOENAIL
16.	CONTINUOUS HEADER TO STUD	4 - 8d		TOENAIL
17.	CEILING JOISTS LAPS OVER PARTITIONS	3 - 16d MIN. TABLE 2308.7.3.1		FACE NAIL
18.	CEILING JOISTS TO PARALLEL RAFTERS	3 - 16d TABLE 2308.7.3.1		FACE NAIL
19.	RAFTER TO PLATE	3 - 8d		TOENAIL
20.	1" DIAGONAL BRACE TO EACH STUD AND PLATE	2 - 8d		FACE NAIL
21.	1"x8" SHEATHING TO EA. BEARING	3 - 8d		FACE NAIL
22.	WIDER THAN 1"x8" SHEATHING TO EACH BEARING	3 - 8d		FACE NAIL
23.	BUILT-UP CORNER STUDS	16d		24" O.C.
24.	BUILT-UP GIRDER AND BEAMS	20d @ 32" O.C.		FACE NAIL @ TOP AND BOT. STAG. ON OPPOSITE SIDES
		2 - 20d		FACE NAIL @ ENDS AND @ EA. SPLICE
25.	2" PLANKS	16d		@ EACH BEARING
26.	COLLAR TIE TO RAFTER	3 - 10d		FACE NAIL
27.	JACK RAFTER TO HIP	3 - 10d 2 - 16d		TOENAIL FACE NAIL
28.	ROOF RAFTER TO 2x RIDGE BEAM	2 - 16d 2 - 16d		TOENAIL FACE NAIL
29.	JOIST TO BAND JOIST	3 - 16d		FACE NAIL
30.	LEDGER STRIP	3 - 16d		FACE NAIL
31.	WOOD STRUCTURAL PANELS AND PARTICLEBOARD, SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING)[b]	1/2" & LESS 19/32" to 3/4" 7/8" to 1" 1 1/8" to 1 1/4"	6d [f] 8d, 6d 8d 10d, 8d	-
	SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)[b]	3/4" & LESS 7/8" to 1" 1 1/8" to 1 1/4"	6d 8d 10d / 8d	-
32.	PANEL SIDING (TO FRAMING)	1/2" & LESS 5/8"	6d[c] 8d[c]	-
33.	FIBERBOARD SHEATHING[d]	1/2" 25/32"	6d 8d	-
34.	INTERIOR PANELING[e]	1/4" to 3/8"	6d	-

a. COMMON NAILS ARE REQUIRED TO BE USED U.N.O. COMMON NAIL PROPERTIES ARE AS FOLLOWS:
- 6d = 0.113"Φ x 2" LONG
- 8d = 0.131"Φ x 2 1/2" LONG
- 10d = 0.148"Φ x 3" LONG
- 16d = 0.162"Φ x 3 1/2" LONG
- 20d = 0.192"Φ x 4" LONG

b. NAILS SPACED AT 6" O.C. AT EDGES, 12" AT INTERMEDIATE SUPPORTS EXCEPT 6" AT SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305.

c. CORROSION-RESISTANT SIDING (6d - 1 7/8"x0.106"; 8d - 2 3/8"x0.128") OR CASING (6d - 2"x0.099"; 8d - 2 1/2"x0.113") NAIL.

d. FASTENERS SPACED 3" O.C. AT EXTERIOR EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS, WHEN USED AS STRUCTURAL SHEATHING. SPACING SHALL BE 6" O.C. E.N. & 12" O.C. F.N. FOR NONSTRUCTURAL APPLICATIONS.

e. NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS.

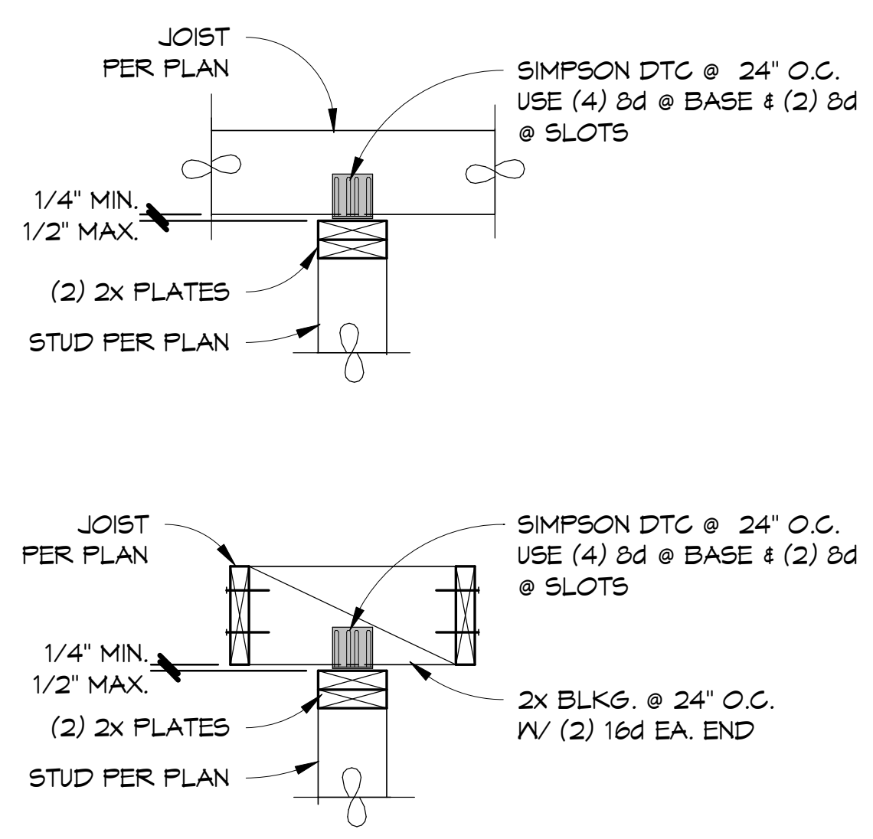
f. ROOF SHEATHING APPLICATIONS, 8d ARE THE MINIMUM REQUIRED FOR WOOD STRUCTURAL PANELS.

g. NAILING DRIVEN INTO PRESERVATIVE TREATED WOOD SHALL BE HOT DIPPED GALVANIZED OR EQUIVALENT.

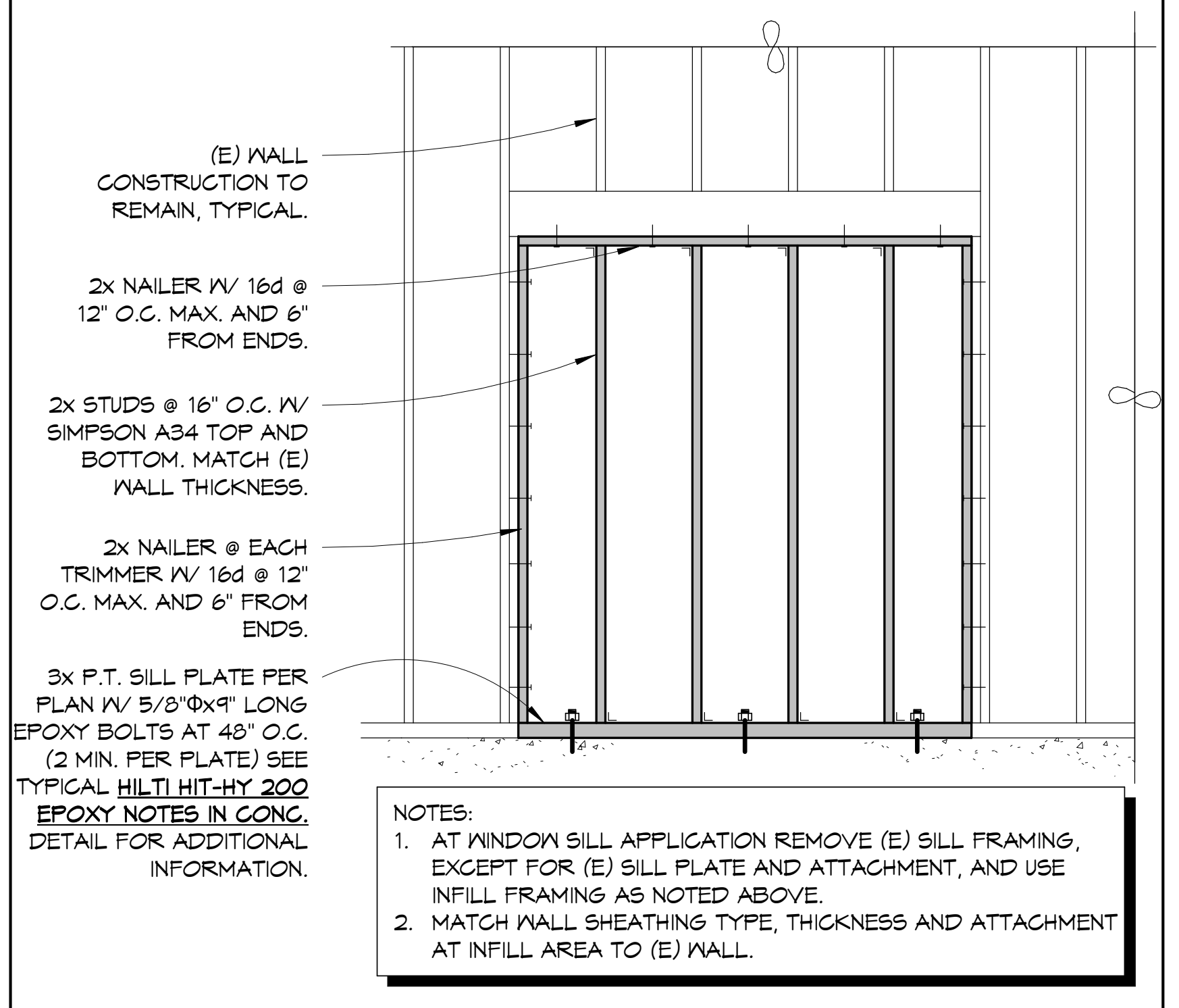
h. THIS SCHEDULE WILL GOVERN UNLESS NOTED OTHERWISE ON PLANS.

i. FASTENERS USED FOR THE ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, WITH COATING PER A.S.T.M. A153.

E4 NAILING SCHED. PER C.B.C. TABLE 2304.10.2
X/S102 NOT TO SCALE


JOIST PER PLAN
SIMPSON DTC @ 24" O.C. USE (4) 8d @ BASE & (2) 8d @ SLOTS
1/4" MIN.
1/2" MAX.
(2) 2x PLATES
STUD PER PLAN
JOIST PER PLAN
SIMPSON DTC @ 24" O.C. USE (4) 8d @ BASE & (2) 8d @ SLOTS
1/4" MIN.
1/2" MAX.
(2) 2x PLATES
STUD PER PLAN
2x BLKG. @ 24" O.C. W/ (2) 16d EA. END

N7 NON-BEARING WALL CONNECTION
X/S102 NOT TO SCALE

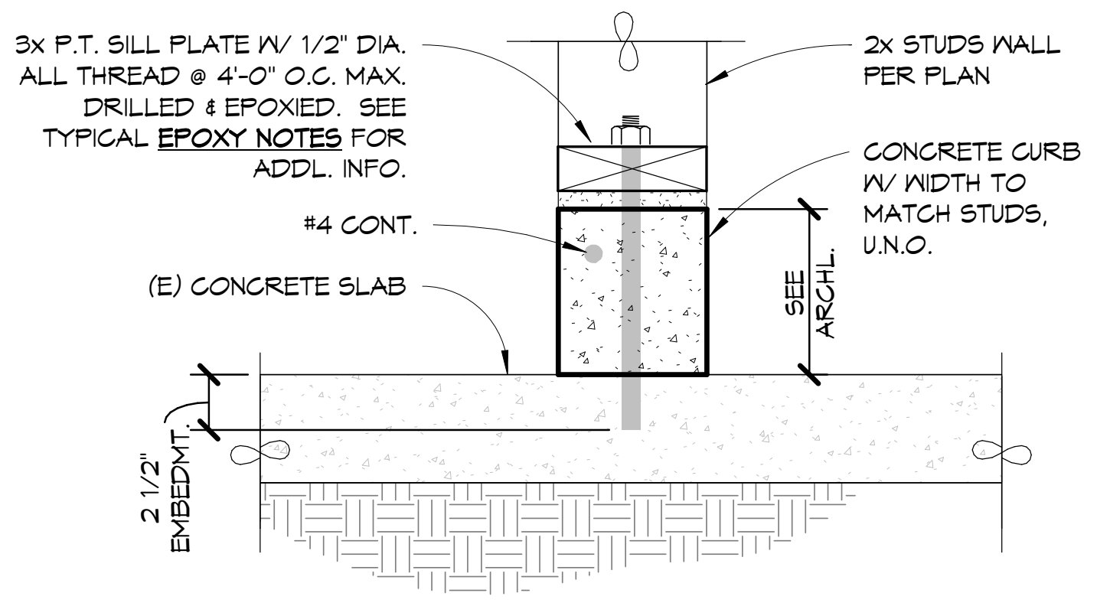

(E) WALL CONSTRUCTION TO REMAIN, TYPICAL.
2x NAILER W/ 16d @ 12" O.C. MAX. AND 6" FROM ENDS.
2x STUDS @ 16" O.C. W/ SIMPSON A34 TOP AND BOTTOM. MATCH (E) WALL THICKNESS.
2x NAILER @ EACH TRIMMER W/ 16d @ 12" O.C. MAX. AND 6" FROM ENDS.
3x P.T. SILL PLATE PER PLAN W/ 5/8"Φx9" LONG EPOXY BOLTS AT 48" O.C. (2 MIN. PER PLATE) SEE TYPICAL HILTI HIT-HY 200 EPOXY NOTES IN CONC. DETAIL FOR ADDITIONAL INFORMATION.

NOTES:
1. AT WINDOW SILL APPLICATION REMOVE (E) SILL FRAMING, EXCEPT FOR (E) SILL PLATE AND ATTACHMENT, AND USE INFILL FRAMING AS NOTED ABOVE.
2. MATCH WALL SHEATHING TYPE, THICKNESS AND ATTACHMENT AT INFILL AREA TO (E) WALL.

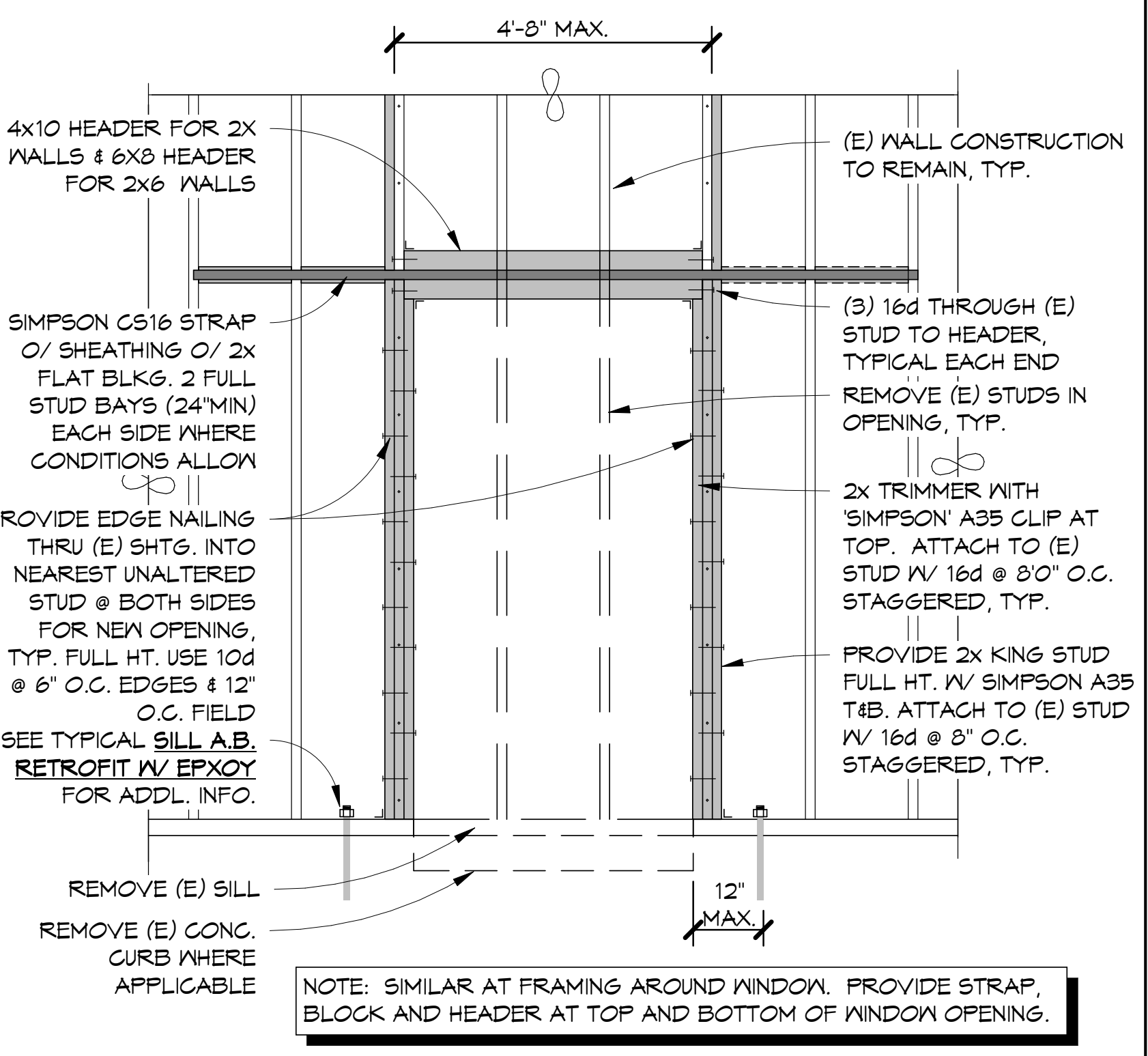
N11 RETRO. INFILL WALL FRMG.
X/S102 NOT TO SCALE

1. ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.
2. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONDITION.
3. EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE RECORD PLANS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
4. VERIFY CONSTRUCTION DOCUMENTS WITH THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE THE EXISTING RECORD PLANS.
5. PROVIDE AND MAINTAIN A COMPLETE SET OF EXISTING RECORD PLANS AND MAKE THEM AVAILABLE FOR USE ON JOB SITE.
6. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED ON PLANS, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY STRUCTURAL ENGINEER IMMEDIATELY.
7. PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR ALTERATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS THAT REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THOSE ELEMENTS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO OWNER.
8. IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE PLANS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT LIMITED TO, DRY ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING OR EXCESSIVE DEFLECTION, SAGGING, TWISTING AND DIFFERENT SIZE, ORIENTATION, SPACING, GRADE QUALITY OR MATERIAL.
9. DO NOT CUT ANY EXISTING RE-BAR OR FRAMING MEMBERS NOT DETAILED ON STRUCTURAL CONSTRUCTION DOCUMENTS.
10. THE AREA SUBJECT TO THE BUILDING PAD AND SITE IMPROVEMENTS HAVE EXISTING BURIED UTILITIES. THESE UTILITIES ARE BEING USED BY THE EXISTING BUILDINGS, AND WILL REQUIRE SELECTIVE DEMOLITION AND RE-INSTALLATION. THE OWNER'S SURVEYOR HAS DOCUMENTED KNOWN UNDERGROUND UTILITIES, AS INDICATED IN THE TOPOGRAPHICAL SURVEY, BUT CONTRACTOR FIELD INVESTIGATIONS AND HAND DUG PITS ARE REQUIRED IN ORDER TO ESTABLISH THE ACTUAL LIMITS OF THE UNDERGROUND UTILITIES. SHOULD AN UNDOCUMENTED UTILITY BE FOUND, DETERMINE THE LOCATION, SIZE AND SCOPE OF THE UNKNOWN UTILITY AND PROVIDE THE INFORMATION TO THE ARCHITECT FOR FURTHER DIRECTION.
11. CONTRACTOR SHALL HAVE ALLOWANCE TO REMOVE ANY OVER POUR OF EXISTING FOOTINGS TO ALLOW PLACEMENT OF NEW FOOTINGS IN A CAREFUL MANNER.

J14 EXISTING CONDITIONS NOTES
X/S102 NOT TO SCALE

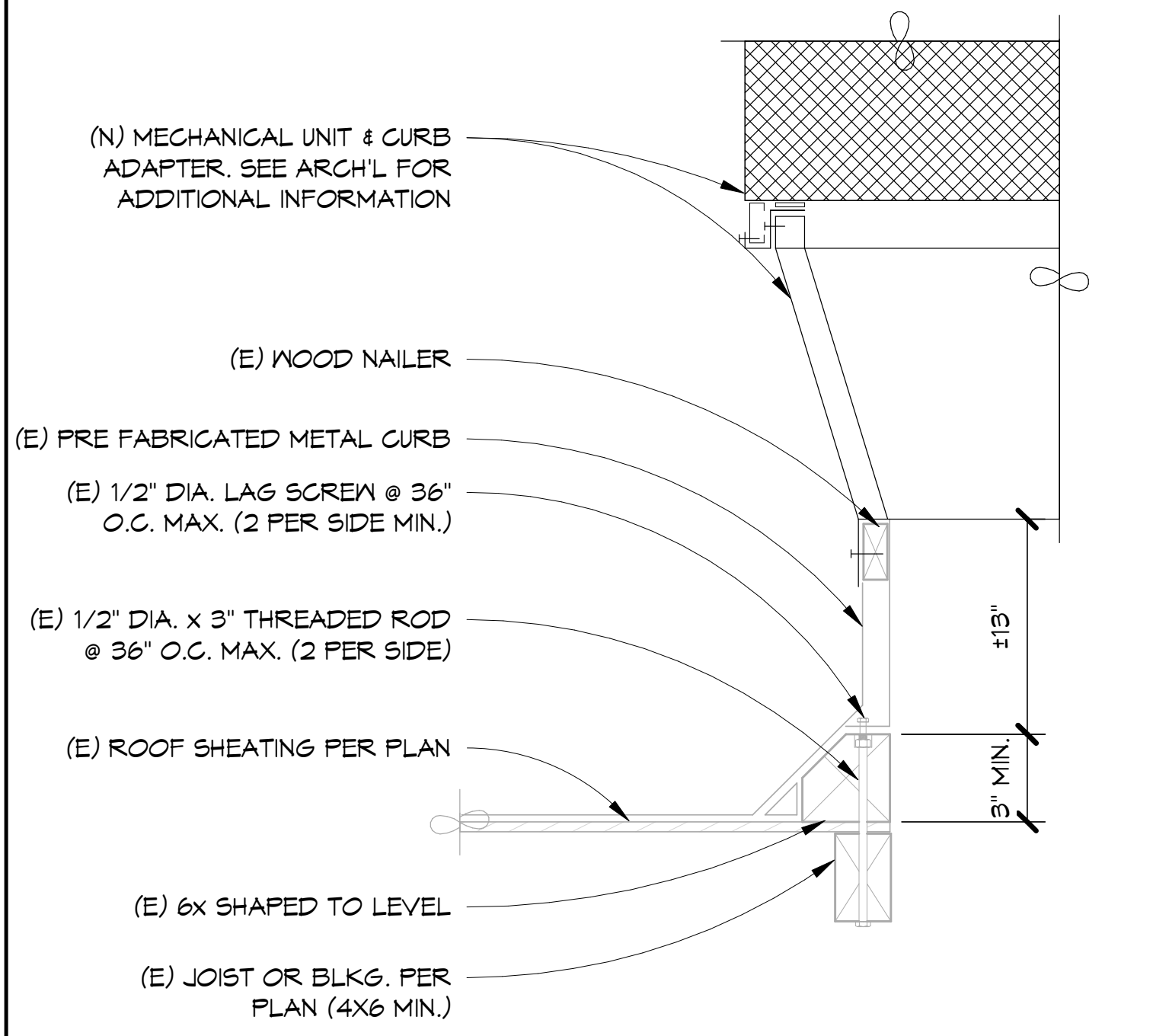

3x P.T. SILL PLATE W/ 1/2" DIA. ALL THREAD @ 4'-0" O.C. MAX. DRILLED & EPOXIED. SEE TYPICAL EPOXY NOTES FOR ADDL. INFO.
#4 CONT.
(E) CONCRETE SLAB
2 1/2" EMBEDMT.
2x STUDS WALL PER PLAN
CONCRETE CURB W/ WIDTH TO MATCH STUDS, U.N.O.
SEE ARCHL.

J7 RETRO. NON-BEARING WALL W/ CURB
X/S102 NOT TO SCALE

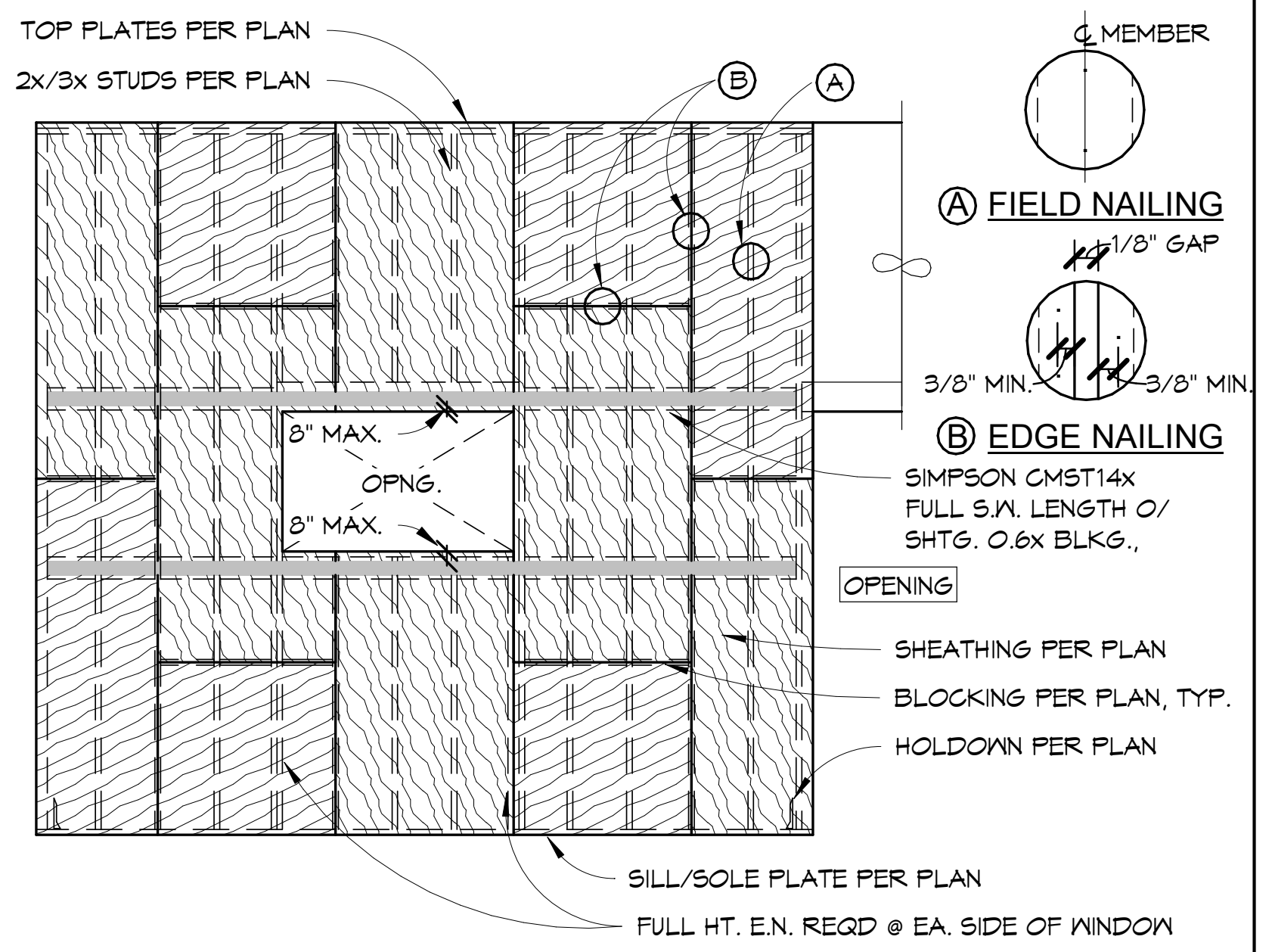

4'-8" MAX.
4x10 HEADER FOR 2X WALLS & 6X8 HEADER FOR 2x6 WALLS
SIMPSON CS16 STRAP O/ SHEATHING O/ 2x FLAT BLKG. 2 FULL STUD BAYS (24"MIN) EACH SIDE WHERE CONDITIONS ALLOW
PROVIDE EDGE NAILING THRU (E) SHTG. INTO NEAREST UNALTERED STUD @ BOTH SIDES FOR NEW OPENING, TYP. FULL HT. USE 10d @ 6" O.C. EDGES & 12" O.C. FIELD
SEE TYPICAL SILL A.B. RETROFIT W/ EPXOY FOR ADDL. INFO.
REMOVE (E) SILL
REMOVE (E) CONC. CURB WHERE APPLICABLE
(E) WALL CONSTRUCTION TO REMAIN, TYP.
(3) 16d THROUGH (E) STUD TO HEADER, TYPICAL EACH END
REMOVE (E) STUDS IN OPENING, TYP.
2x TRIMMER WITH 'SIMPSON' A35 CLIP AT TOP. ATTACH TO (E) STUD W/ 16d @ 8'0" O.C. STAGGERED, TYP.
PROVIDE 2x KING STUD FULL HT. W/ SIMPSON A35 T&B. ATTACH TO (E) STUD W/ 16d @ 8" O.C. STAGGERED, TYP.
12" MAX.

NOTE: SIMILAR AT FRAMING AROUND WINDOW. PROVIDE STRAP, BLOCK AND HEADER AT TOP AND BOTTOM OF WINDOW OPENING.

J11 RETRO. OPNG. IN NON-SHEAR WALL
X/S102 NOT TO SCALE

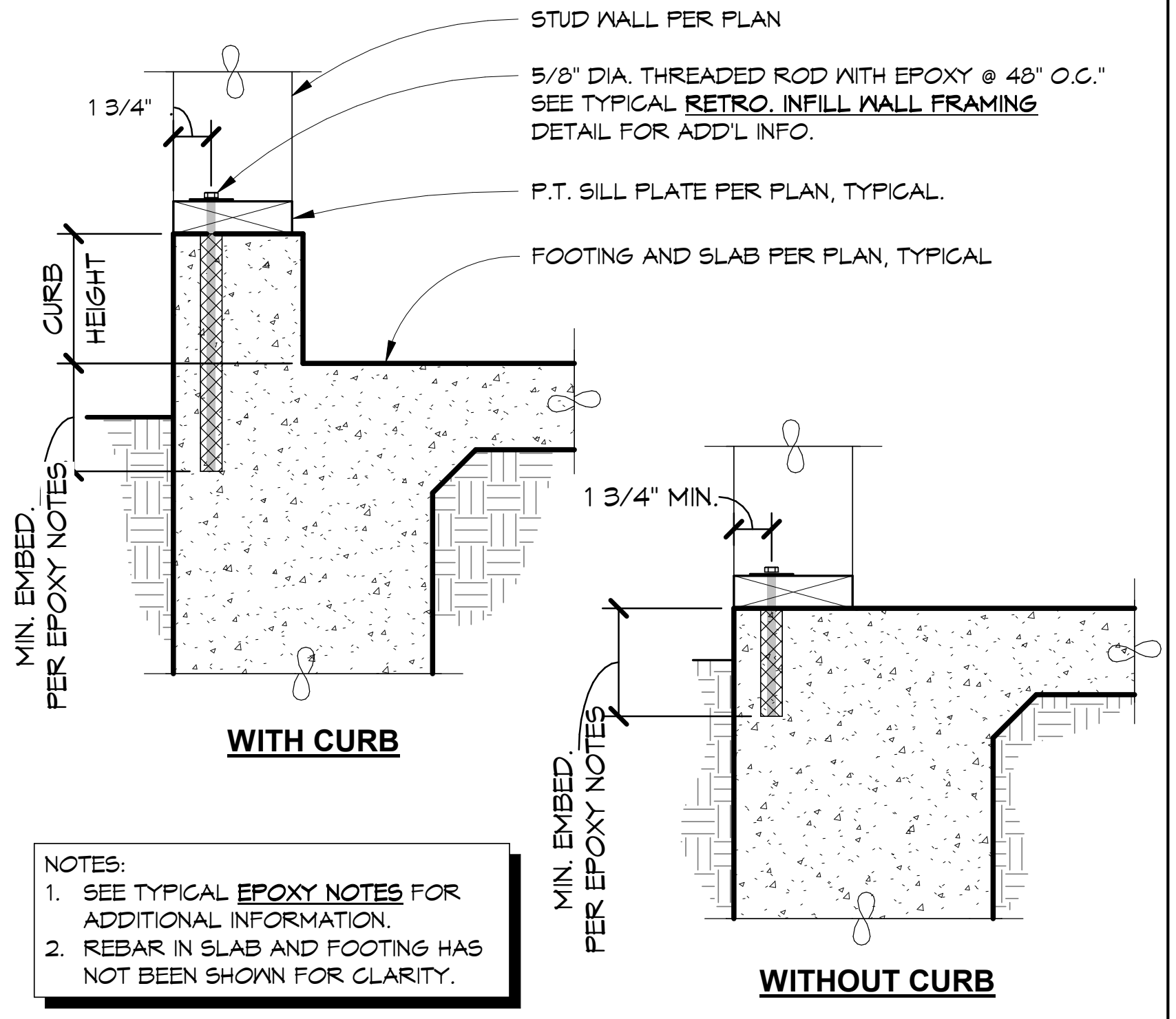

(N) MECHANICAL UNIT & CURB ADAPTER. SEE ARCH'L FOR ADDITIONAL INFORMATION
(E) WOOD NAILER
(E) PRE FABRICATED METAL CURB
(E) 1/2" DIA. LAG SCREW @ 36" O.C. MAX. (2 PER SIDE MIN.)
(E) 1/2" DIA. x 3" THREADED ROD @ 36" O.C. MAX. (2 PER SIDE)
(E) ROOF SHEATING PER PLAN
(E) 6x SHAPED TO LEVEL
(E) JOIST OR BLKG. PER PLAN (4X6 MIN.)
±13"
3" MIN.

E1 MECHANICAL UNIT ANCHORAGE
X/S102 NOT TO SCALE



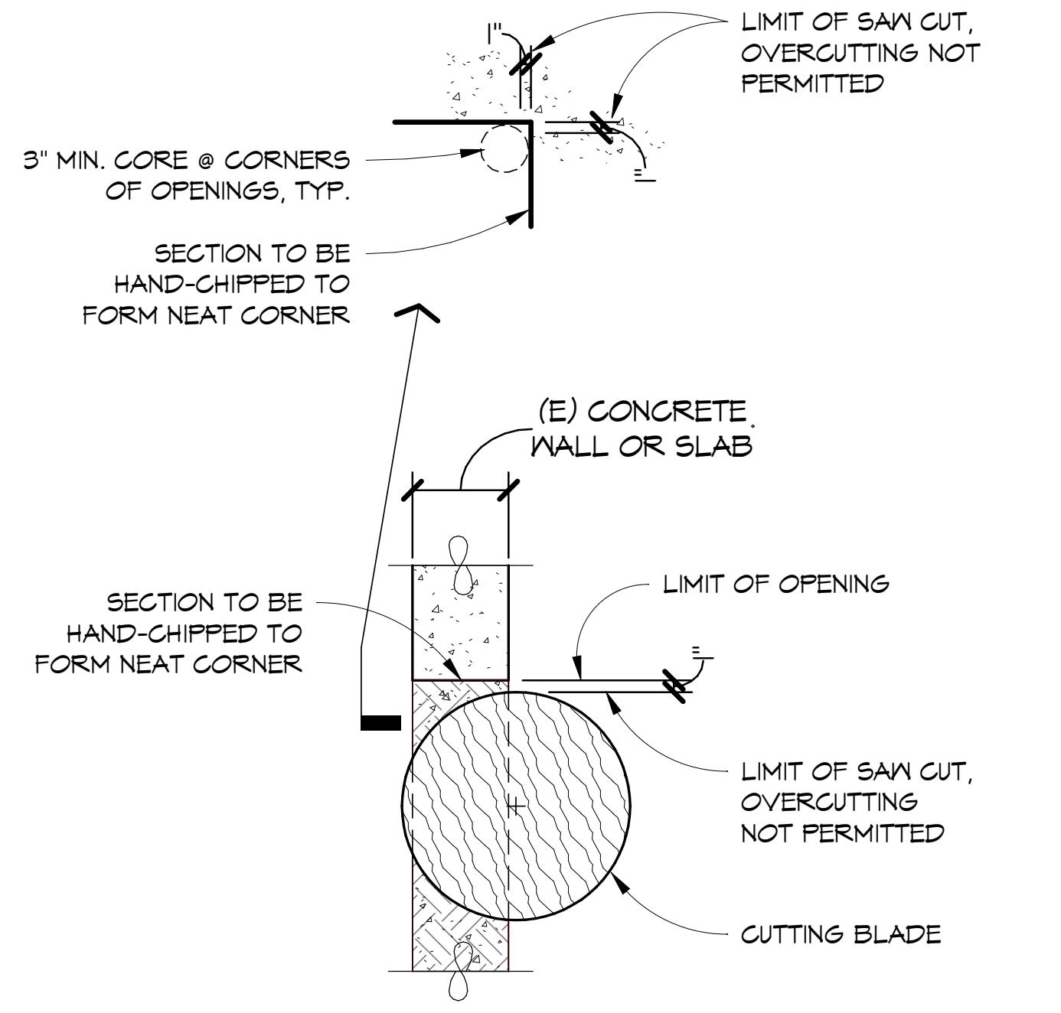
NOTES:
1. SHEAR WALLS LESS THAN ONE VERT. PANEL IN HEIGHT DO NOT REQUIRE STAGGERED PANELS.
2. SEE WOOD NOTES.

E7 SHEAR WALL ELEV. FORCE TRANSFER
X/S102 NOT TO SCALE

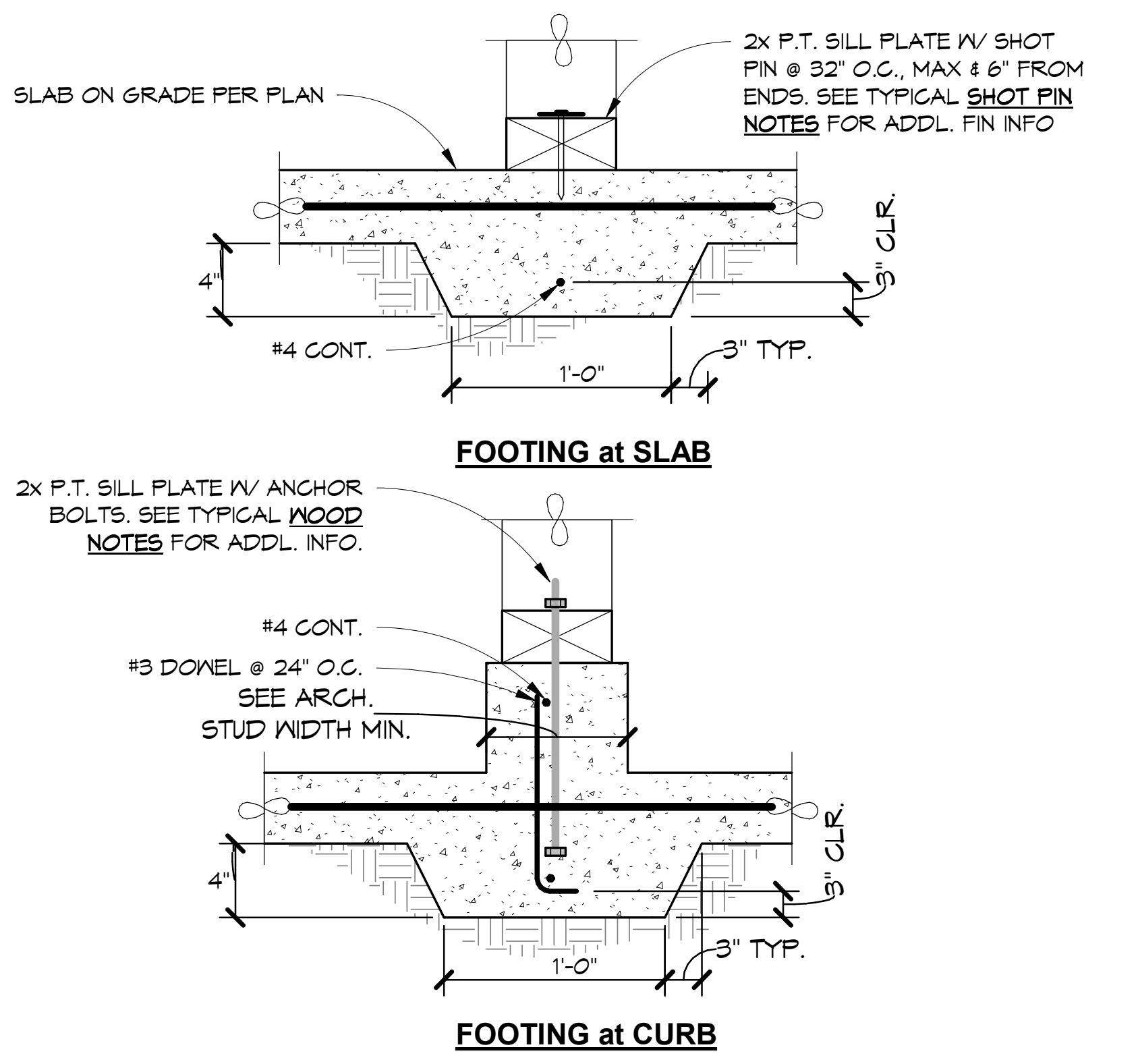

STUD WALL PER PLAN
5/8" DIA. THREADED ROD WITH EPOXY @ 48" O.C." SEE TYPICAL RETRO. INFILL WALL FRAMING DETAIL FOR ADD'L INFO.
P.T. SILL PLATE PER PLAN, TYPICAL.
FOOTING AND SLAB PER PLAN, TYPICAL
1 3/4"
CURB HEIGHT
MIN. EMBED. PER EPOXY NOTES
WITH CURB
1 3/4" MIN.
MIN. EMBED. PER EPOXY NOTES
WITHOUT CURB

NOTES:
1. SEE TYPICAL EPOXY NOTES FOR ADDITIONAL INFORMATION.
2. REBAR IN SLAB AND FOOTING HAS NOT BEEN SHOWN FOR CLARITY.

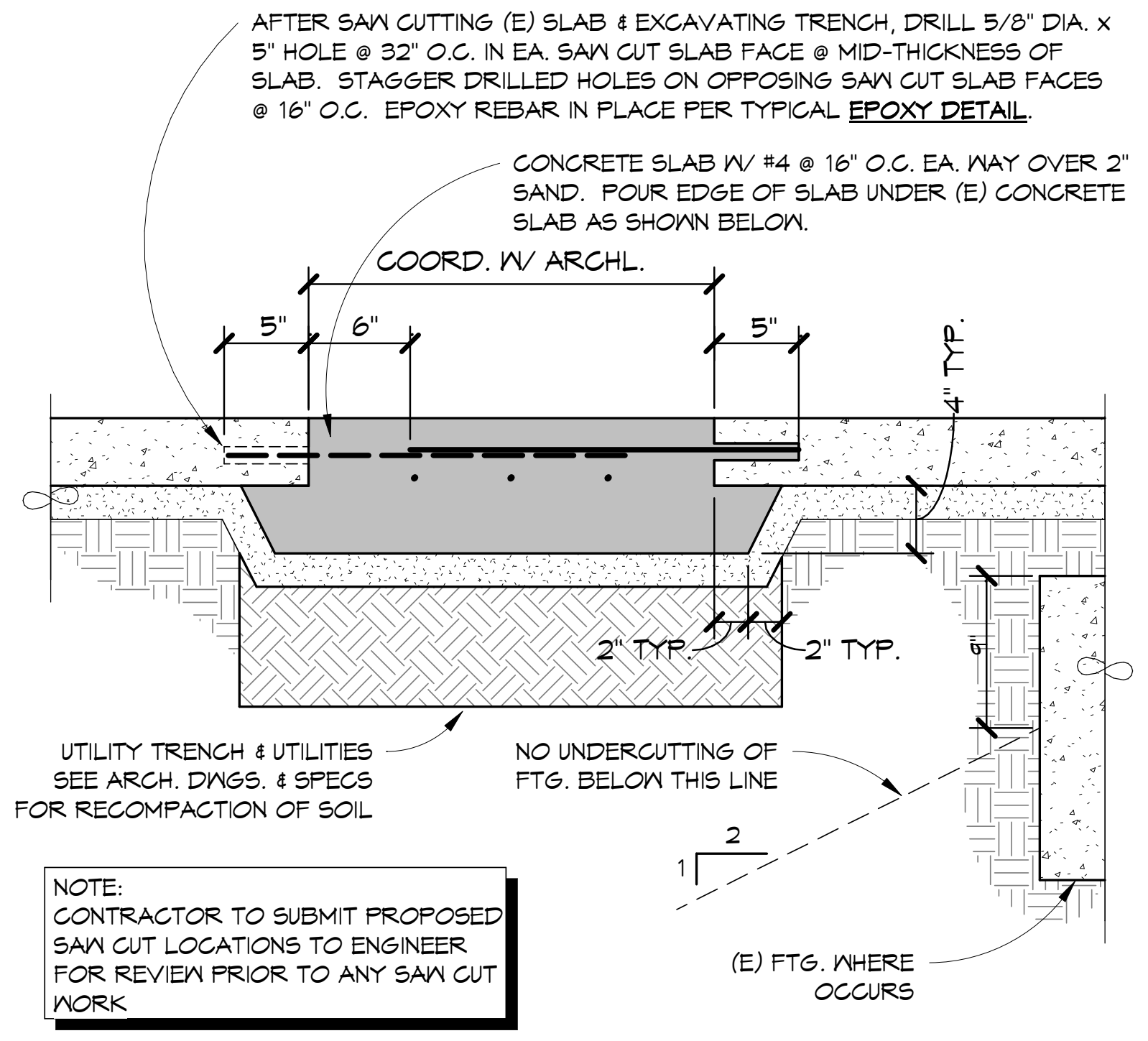
E11 SILL A.B. RETROFIT W/ EPOXY
X/S102 NOT TO SCALE


1"
LIMIT OF SAW CUT, OVERCUTTING NOT PERMITTED
3" MIN. CORE @ CORNERS OF OPENINGS, TYP.
SECTION TO BE HAND-CHIPPED TO FORM NEAT CORNER
(E) CONCRETE WALL OR SLAB
SECTION TO BE HAND-CHIPPED TO FORM NEAT CORNER
LIMIT OF OPENING
LIMIT OF SAW CUT, OVERCUTTING NOT PERMITTED
CUTTING BLADE

E14 SAW CUTTING IN CONCRETE
X/S102 NOT TO SCALE


SLAB ON GRADE PER PLAN
2x P.T. SILL PLATE W/ SHOT PIN @ 32" O.C., MAX & 6" FROM ENDS. SEE TYPICAL SHOT PIN NOTES FOR ADDL. FIN INFO
4"
#4 CONT.
3" CLR.
1'-0"
3" TYP.
FOOTING at SLAB
2x P.T. SILL PLATE W/ ANCHOR BOLTS. SEE TYPICAL WOOD NOTES FOR ADDL. INFO.
#4 CONT.
#3 DOWEL @ 24" O.C.
SEE ARCH. STUD WIDTH MIN.
4"
3" CLR.
1'-0"
3" TYP.
FOOTING at CURB

A11 NON-BEARING WALL CONN. FOR WOOD
X/S102 NOT TO SCALE


AFTER SAW CUTTING (E) SLAB & EXCAVATING TRENCH, DRILL 5/8" DIA. x 5" HOLE @ 32" O.C. IN EA. SAW CUT SLAB FACE @ MID-THICKNESS OF SLAB. STAGGER DRILLED HOLES ON OPPOSING SAW CUT SLAB FACES @ 16" O.C. EPOXY REBAR IN PLACE PER TYPICAL EPOXY DETAIL.
CONCRETE SLAB W/ #4 @ 16" O.C. EA. WAY OVER 2" SAND. POUR EDGE OF SLAB UNDER (E) CONCRETE SLAB AS SHOWN BELOW.
COORD. W/ ARCHL.
5"
6"
5"
4" TYP.
2" TYP.
2" TYP.
UTILITY TRENCH & UTILITIES SEE ARCH. DWGS. & SPECS FOR RECOMPACTION OF SOIL
NO UNDERCUTTING OF FTG. BELOW THIS LINE
2
1
(E) FTG. WHERE OCCURS

NOTE:
CONTRACTOR TO SUBMIT PROPOSED SAW CUT LOCATIONS TO ENGINEER FOR REVIEW PRIOR TO ANY SAW CUT WORK

A14 UTILITY TRENCH SLAB RETROFIT
X/S102 NOT TO SCALE

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

BrooksRansom
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25421

REGISTERED PROFESSIONAL ENGINEER
GAYLORD R. RANSOM
No.S2386
EXPIRES 3-31-26
STRUCTURAL
STATE OF CALIFORNIA

Consultant

Community Day School Modernization
Merced City Unified School District
Merced, CA, 95340
Project

TYPICAL INFORMATION
TYPICAL PROJECT NOTES AND DETAILS
Drawing

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LICENSED ARCHITECT
GRANT E. DODSON
No. C-20,307
Ren. 6-30-27
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: GR	Copyright 2026 Darden Architects
Scale: As indicated	Drawn By: GR	X/S102
Project Number: 2533	Checked By: SOC	
Date: 2/9/2026	Reviewed By SOC	

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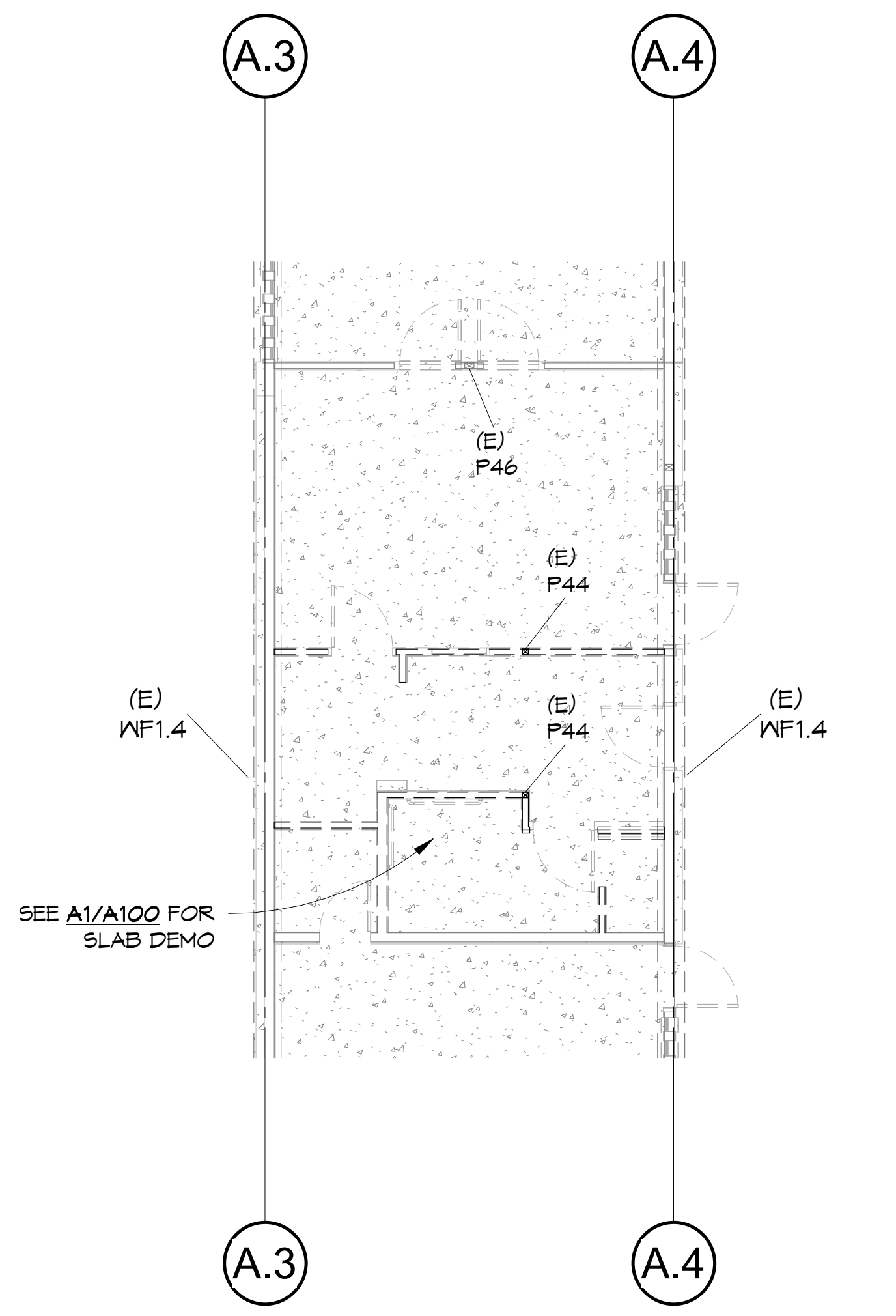
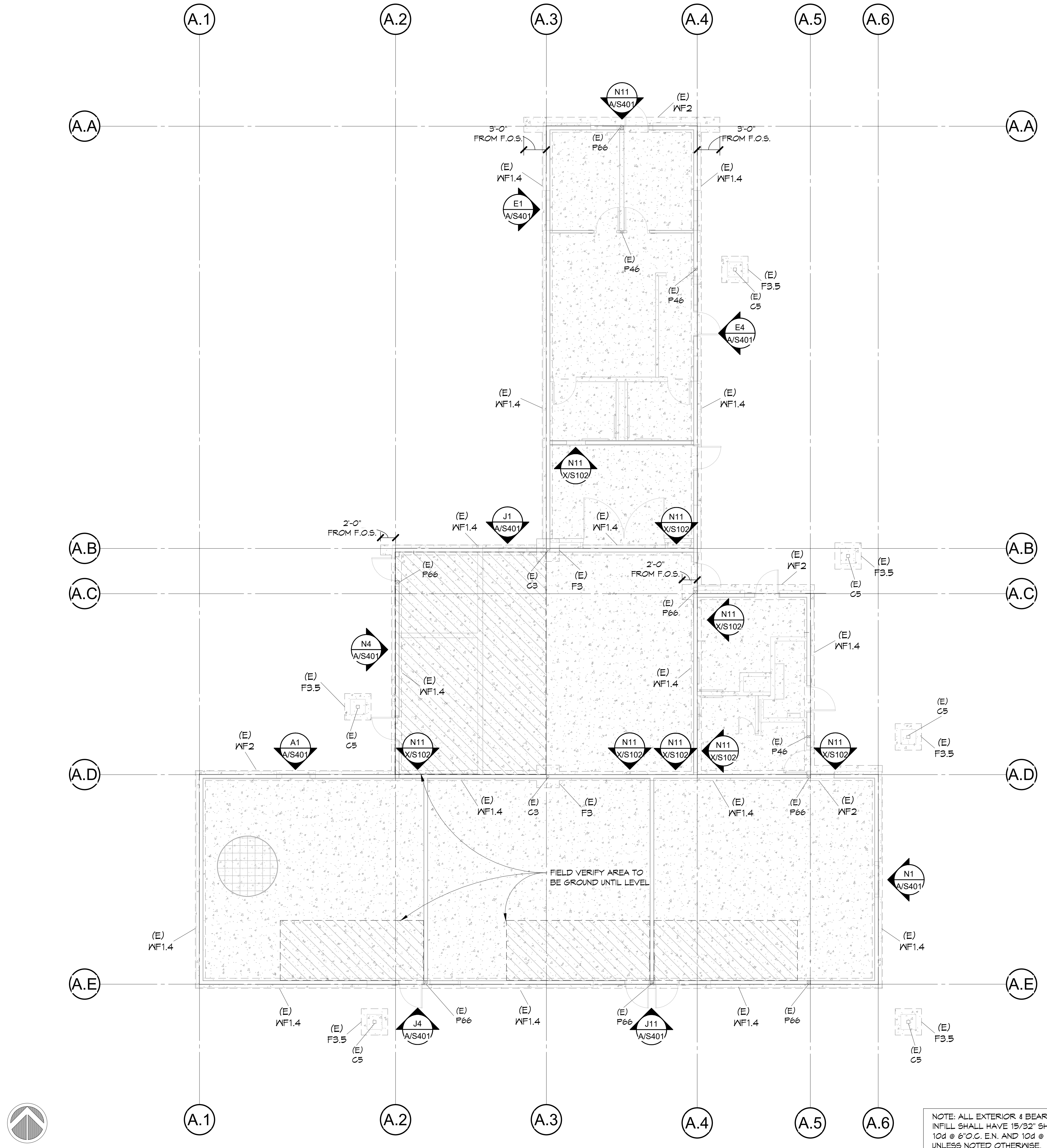


LEGEND:

- – – – – – – (E) INTERIOR WALL TO BE DEMOLISHED
- ☒ (E) POST TO BE DEMOLISHED

J1 DEMO FOUNDATION PLAN

A/S401 A/S201 1/8" = 1'-0"



NOTE: ALL EXTERIOR & BEARING WALL INFILL SHALL HAVE 15/32" SHEATHING WITH 10d @ 6"O.C. E.N. AND 10d @ 12"O.C. F.N., UNLESS NOTED OTHERWISE. SEE **WOOD NOTES** FOR SHEATHING MATERIAL.

E4 FOUNDATION PLAN

A/S401 A/S201 1/8" = 1'-0"

NON-BEARING WALL. PROVIDE 2x STUDS @ 16"O.C. SEE ARCHITECTURAL PLANS FOR THICKNESS OF STUDS REQUIRED. SEE TYPICAL **NON-BEARING WALL CONNECTION** DETAIL FOR TOP OF WALL CONNECTION.

##

"XX" AS INDICATED ON PLAN. SEE TYPICAL **SCHEDULES** AS FOLLOWS:
- C# - COLUMN SCHEDULE
- P# - WOOD POST SCHEDULE
- WF# - WALL FOOTING SCHEDULE
- F# - FOUNDATION SCHEDULE

F.F.
+X'-X"

FINISHED FLOOR (F.F.) OR TOP OF FRAMING (T.O.F.). +X'-X" IS THE DISTANCE FROM FINISHED FIRST FLOOR, UNLESS NOTED OTHERWISE

(E) 4" CONC. SLAB W/ 6x6/#6x#6 WELDED WIRE FABRIC U.N.O., TYP.

N14 LEGEND

A/S201 NOT TO SCALE

1. SEE TYPICAL SHEETS FOR ALL GENERAL AND MATERIAL NOTES, AND ALL TYPICAL SCHEDULES AND DETAILS. THE INFORMATION ON THE TYPICAL SHEETS APPLY TO THE PROJECT AND ARE NOT SPECIFICALLY REFERENCED ON PLAN WORK, UNLESS NOTED OTHERWISE. IF TYPICAL DETAILS ARE SPECIFIED ON PLANS OR NOTES, THEY WILL BE REFERENCED WITH THE WORD "TYPICAL" FOLLOWED BY **BOLD AND UNDERLINED** TEXT STATING THE TITLE OF THE TYPICAL DETAIL OR NOTE.
2. ALL UNCLEAR AND/OR MISSING DETAILS SHALL BE BROUGHT TO THE STRUCTURAL ENGINEER'S ATTENTION BEFORE PROCEEDING WITH CONSTRUCTION.
3. SEE CIVIL AND/OR ARCHITECTURAL SITE PLAN FOR LOCATION AND DIMENSIONS OF SIDEWALKS, MOW STRIPS, PLANTERS AND OTHER LANDSCAPING FEATURES.

J14 FOUNDATION NOTES

A/S201 NOT TO SCALE

STRUCTURAL COLUMN SCHEDULE

MARK	TYPE	COMMENTS
(E) C3	(E) Pipe3STD	
(E) C5	(E) HSS5X5X1/4	
(E) P44	(E) 4x4	
(E) P46	(E) 4x6	
(E) P66	(E) 6x6	

STRUCTURAL FOUNDATION SCHEDULE

MARK	TYPE	REINFORCEMENT
(E) F3	3'-0" SQ. x 1'-2" DEEP FOOTING	(3) #5 EA. WAY @ BOTTOM
(E) F3.5	3'-6" SQ. x 1'-2" DEEP FOOTING	(3) #5 EA. WAY @ BOTTOM
(E) WF1.4	1'-4" WIDE x 1'-0" DEEP CONT.	(2) #5 @ TOP & BOTTOM
(E) WF2	2'-0" WIDE x 1'-0" DEEP CONT.	(2) #5 @ TOP & BOTTOM

DSA File No.:
24-35

DSA Application No.:
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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

	Designed By: GR	
Scale: As indicated	Drawn By: GR	A/S201
Project Number: 2533	Checked By: SOC	
Date: 2/9/2026	Reviewed By: SOC	

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DSA File No.:
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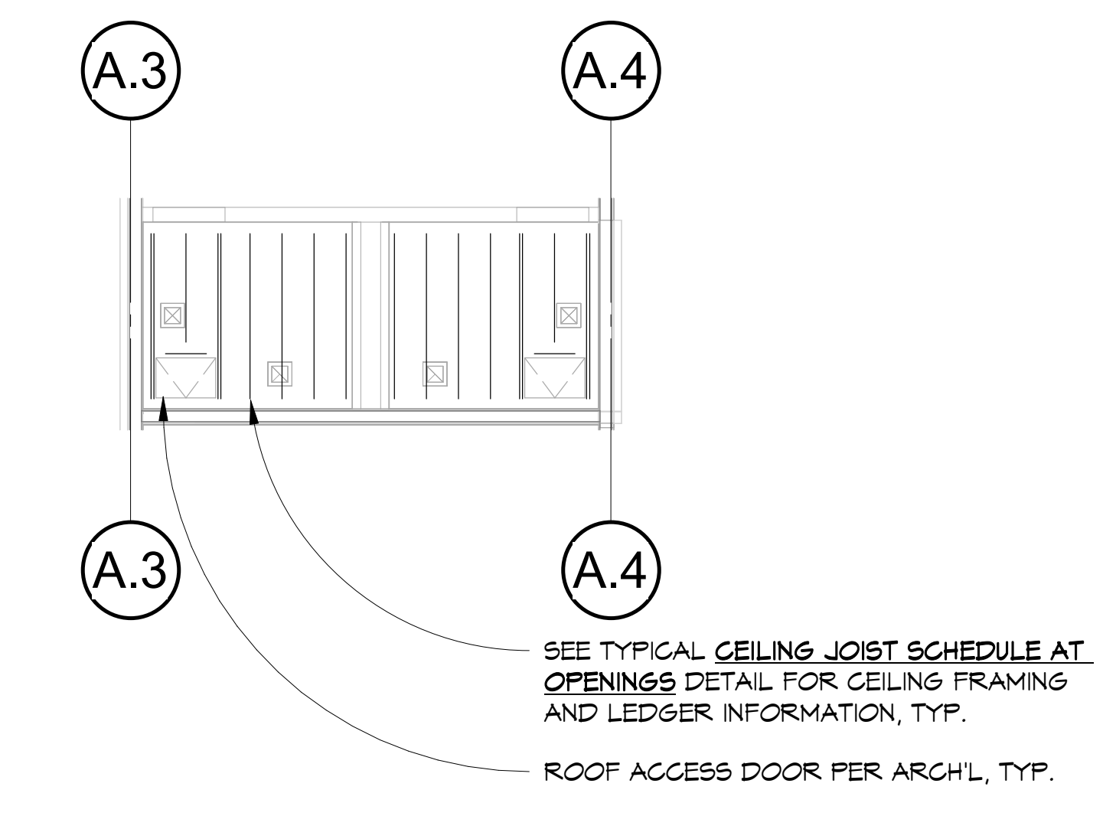
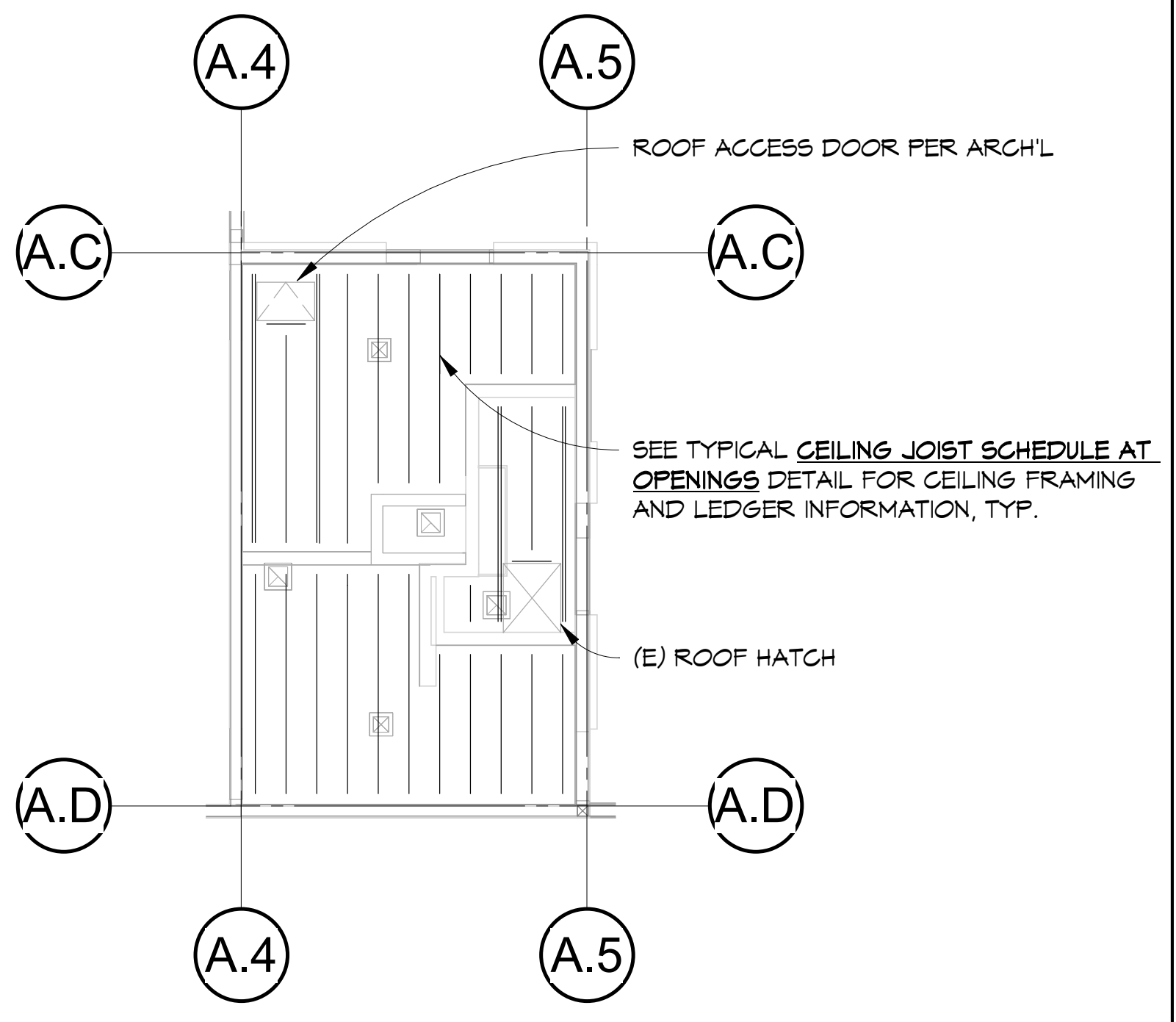

A.3
A.4
A.3
A.4
SEE TYPICAL **CEILING JOIST SCHEDULE AT OPENINGS** DETAIL FOR CEILING FRAMING AND LEDGER INFORMATION, TYP.
ROOF ACCESS DOOR PER ARCH'L, TYP.

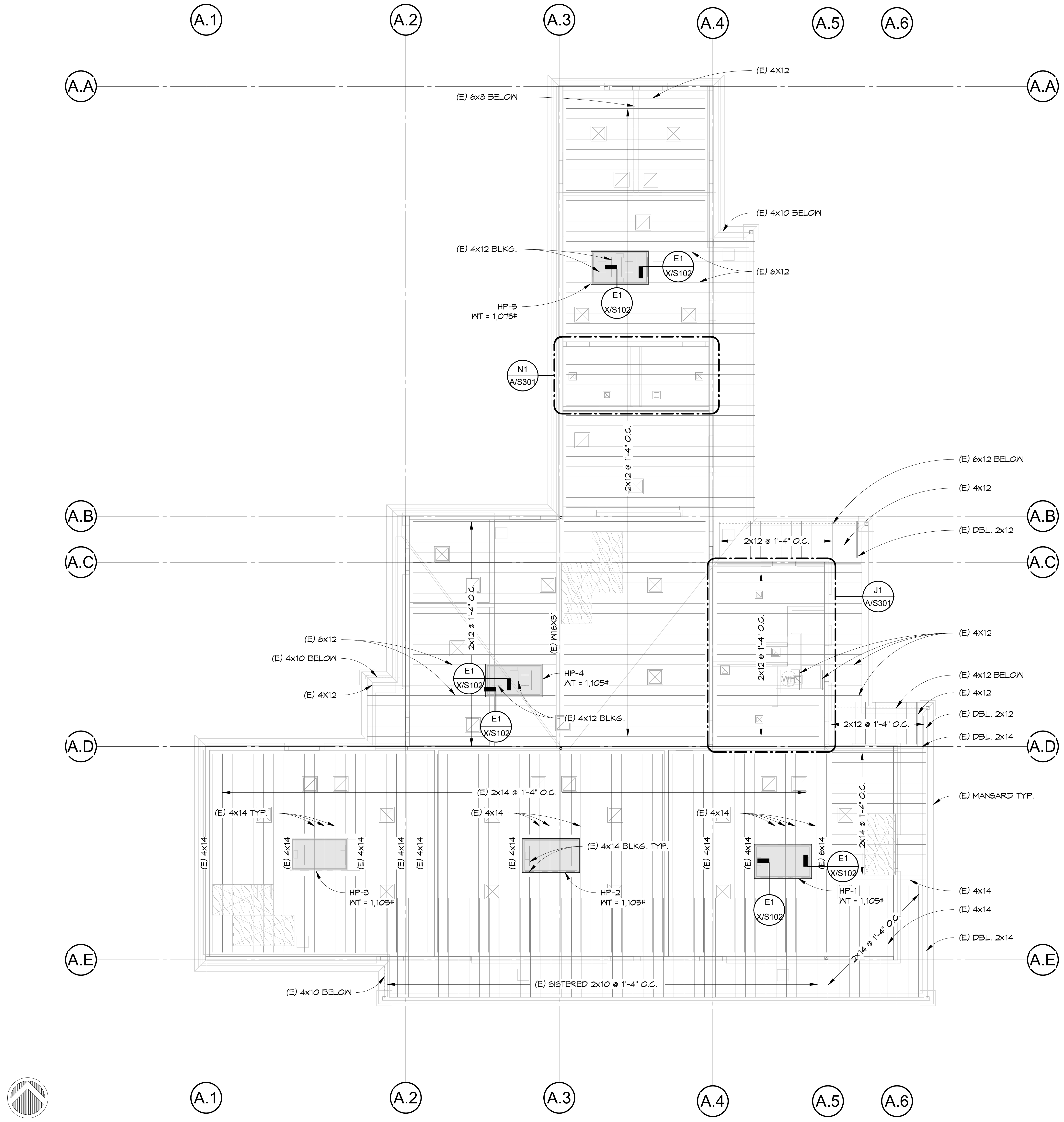
N1 CEILING PLAN

A/S301 A/S301 1/8" = 1'-0"


A.4
A.5
A.C
A.C
A.D
A.D
A.4
A.5
ROOF ACCESS DOOR PER ARCH'L
SEE TYPICAL **CEILING JOIST SCHEDULE AT OPENINGS** DETAIL FOR CEILING FRAMING AND LEDGER INFORMATION, TYP.
(E) ROOF HATCH

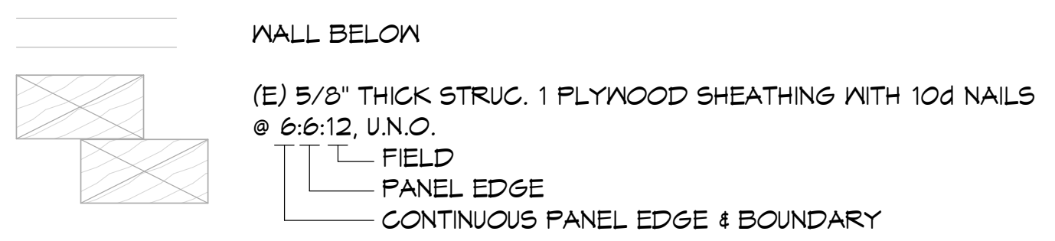
J1 CEILING PLAN

A/S301 A/S301 1/8" = 1'-0"



E4 ROOF FRAMING PLAN

A/S301 1/8" = 1'-0"


WALL BELOW
(E) 5/8" THICK STRUC. 1 PLYWOOD SHEATHING WITH 10d NAILS @ 6:6:12, U.N.O.
FIELD
PANEL EDGE
CONTINUOUS PANEL EDGE & BOUNDARY

N14 WOOD LEGEND

A/S301 NOT TO SCALE

1. SEE TYPICAL SHEETS FOR ALL GENERAL AND MATERIAL NOTES, AND ALL TYPICAL SCHEDULES AND DETAILS. THE INFORMATION ON THE TYPICAL SHEETS APPLY TO THE PROJECT AND ARE NOT SPECIFICALLY REFERENCED ON PLAN WORK, UNLESS NOTED OTHERWISE. IF TYPICAL DETAILS ARE SPECIFIED ON PLANS OR NOTES, THEY WILL BE REFERENCED WITH THE WORD "TYPICAL" FOLLOWED BY **BOLD AND UNDERLINED** TEXT STATING THE TITLE OF THE TYPICAL DETAIL OR NOTE.
2. ALL UNCLEAR AND/OR MISSING DETAILS SHALL BE BROUGHT TO THE STRUCTURAL ENGINEER'S ATTENTION BEFORE PROCEEDING WITH CONSTRUCTION.
3. ALL EXTERIOR WALLS AND EXTERIOR SOFFITS SHALL HAVE 15/32" SHEATHING WITH 10d @ 6"O.C. E.N. AND 10d @ 12"O.C. F.N., UNLESS NOTED OTHERWISE. SEE **WOOD NOTES** FOR SHEATHING MATERIAL.
4. ALL TOP OF FRAMING ABOVE FINISH SLAB VARIES, SEE PLAN FOR INFORMATION.
6. VERIFY ROOF SLOPE(S) WITH ARCHITECTURAL PLANS.
7. ALL FRAMING SHALL BE D.F. NO. 1 OR BETTER, UNLESS OTHERWISE NOTED. SEE TYPICAL **WOOD NOTES** ADDITIONAL INFORMATION.
8. COORDINATE WITH ARCHITECTURAL IF ADDITIONAL FRAMING BLOCKING IS REQUIRED FOR SUSPENDED CEILING, SOFFITS AND FINISHES.
9. ALL ITEMS ARE NEW UNLESS NOTED OTHERWISE.

J14 WOOD FRAMING NOTES

A/S301 NOT TO SCALE

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Merced City Unified School District
Merced, CA, 95340

Project

BUILDING A
ROOF FRAMING PLAN

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GRANT E. DODSON
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Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

	Designed By: GR	Copyright 2026 Darden Architects
Scale: As indicated	Drawn By: GR	*A/S301*
Project Number: 2533	Checked By: SOC	
Date: 2/9/2026	Reviewed By:SOC	

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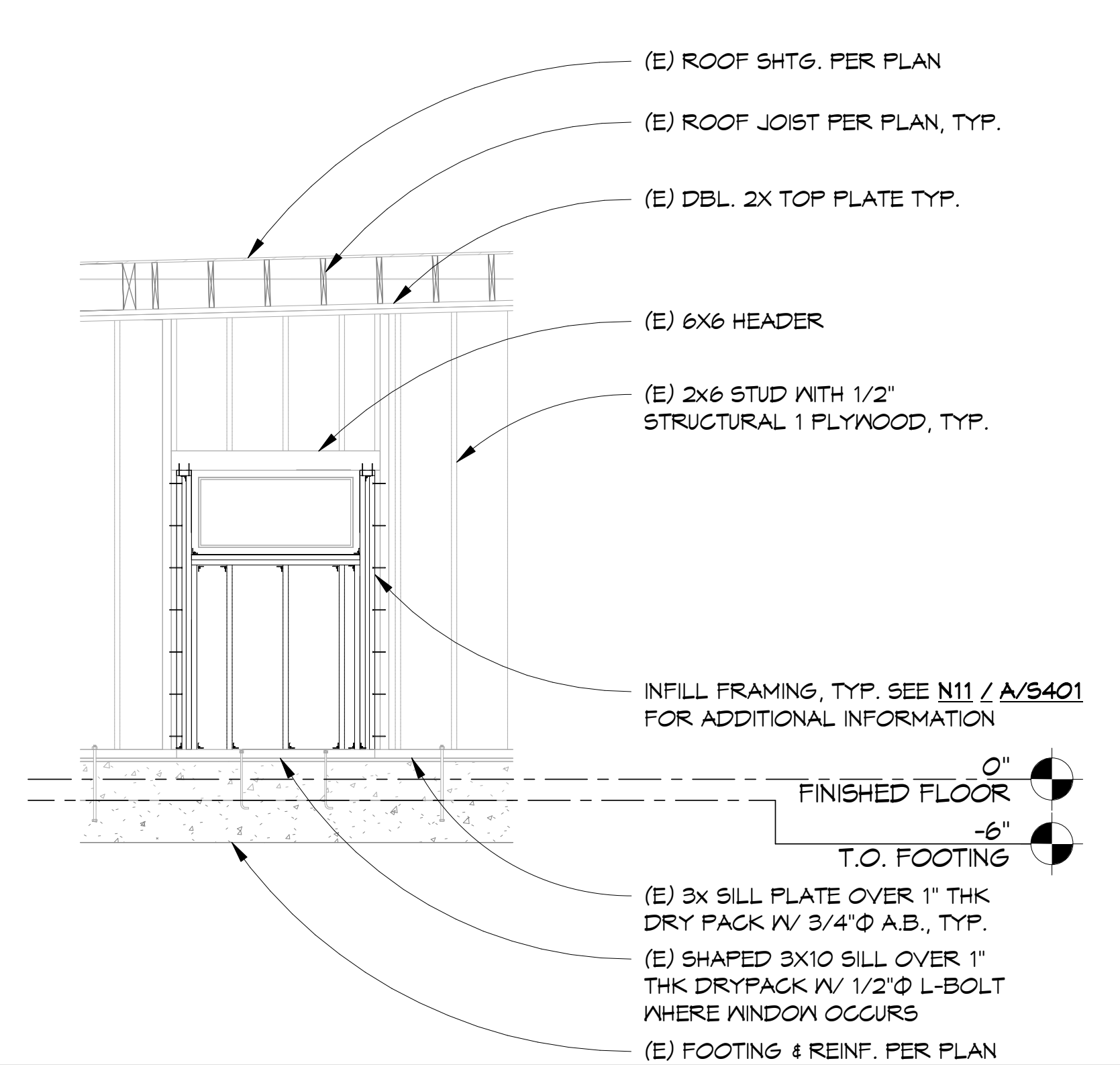
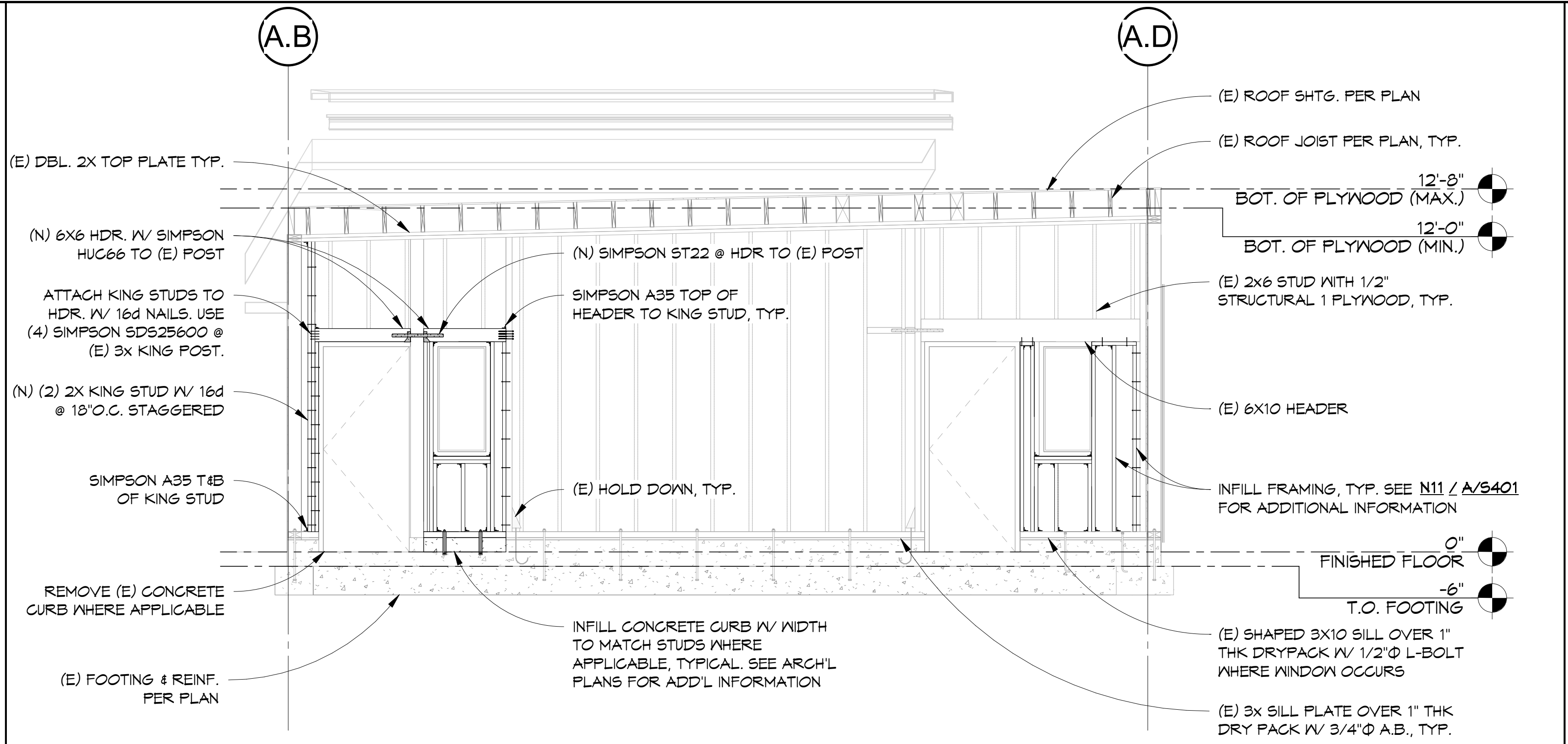

(E) ROOF SHTG. PER PLAN
(E) ROOF JOIST PER PLAN, TYP.
(E) DBL. 2X TOP PLATE TYP.
(E) 6X6 HEADER
(E) 2x6 STUD WITH 1/2" STRUCTURAL 1 PLYWOOD, TYP.
INFILL FRAMING, TYP. SEE N11 / A/S401 FOR ADDITIONAL INFORMATION
0" FINISHED FLOOR
-6" T.O. FOOTING
(E) 3x SILL PLATE OVER 1" THK DRY PACK W/ 3/4"Φ A.B., TYP.
(E) SHAPED 3X10 SILL OVER 1" THK DRYPACK W/ 1/2"Φ L-BOLT WHERE WINDOW OCCURS
(E) FOOTING & REINF. PER PLAN

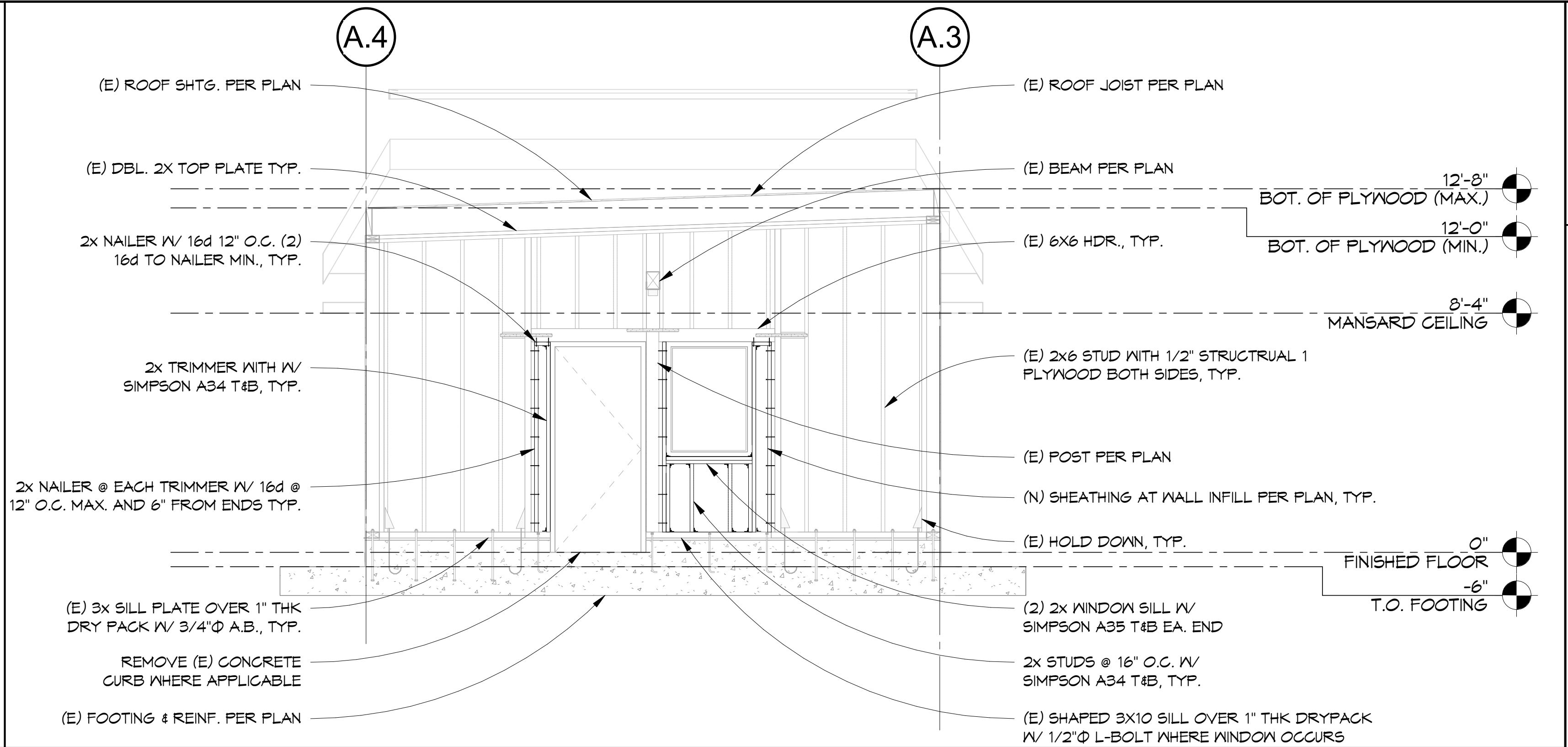
N1 PARTIAL ELEVATION

A/S201 A/S401 1/4" = 1'-0"


A.B
A.D
(E) DBL. 2X TOP PLATE TYP.
(N) 6X6 HDR. W/ SIMPSON HUC66 TO (E) POST
ATTACH KING STUDS TO HDR. W/ 16d NAILS. USE (4) SIMPSON SDS25600 @ (E) 3x KING POST.
(N) (2) 2X KING STUD W/ 16d @ 18"O.C. STAGGERED
SIMPSON A35 T&B OF KING STUD
REMOVE (E) CONCRETE CURB WHERE APPLICABLE
(E) FOOTING & REINF. PER PLAN
(N) SIMPSON ST22 @ HDR TO (E) POST
SIMPSON A35 TOP OF HEADER TO KING STUD, TYP.
(E) HOLD DOWN, TYP.
INFILL CONCRETE CURB W/ WIDTH TO MATCH STUDS WHERE APPLICABLE, TYPICAL. SEE ARCH'L PLANS FOR ADD'L INFORMATION
(E) ROOF SHTG. PER PLAN
(E) ROOF JOIST PER PLAN, TYP.
12'-8" BOT. OF PLYWOOD (MAX.)
12'-0" BOT. OF PLYWOOD (MIN.)
(E) 2x6 STUD WITH 1/2" STRUCTURAL 1 PLYWOOD, TYP.
(E) 6X10 HEADER
INFILL FRAMING, TYP. SEE N11 / A/S401 FOR ADDITIONAL INFORMATION
0" FINISHED FLOOR
-6" T.O. FOOTING
(E) SHAPED 3X10 SILL OVER 1" THK DRYPACK W/ 1/2"Φ L-BOLT WHERE WINDOW OCCURS
(E) 3x SILL PLATE OVER 1" THK DRY PACK W/ 3/4"Φ A.B., TYP.

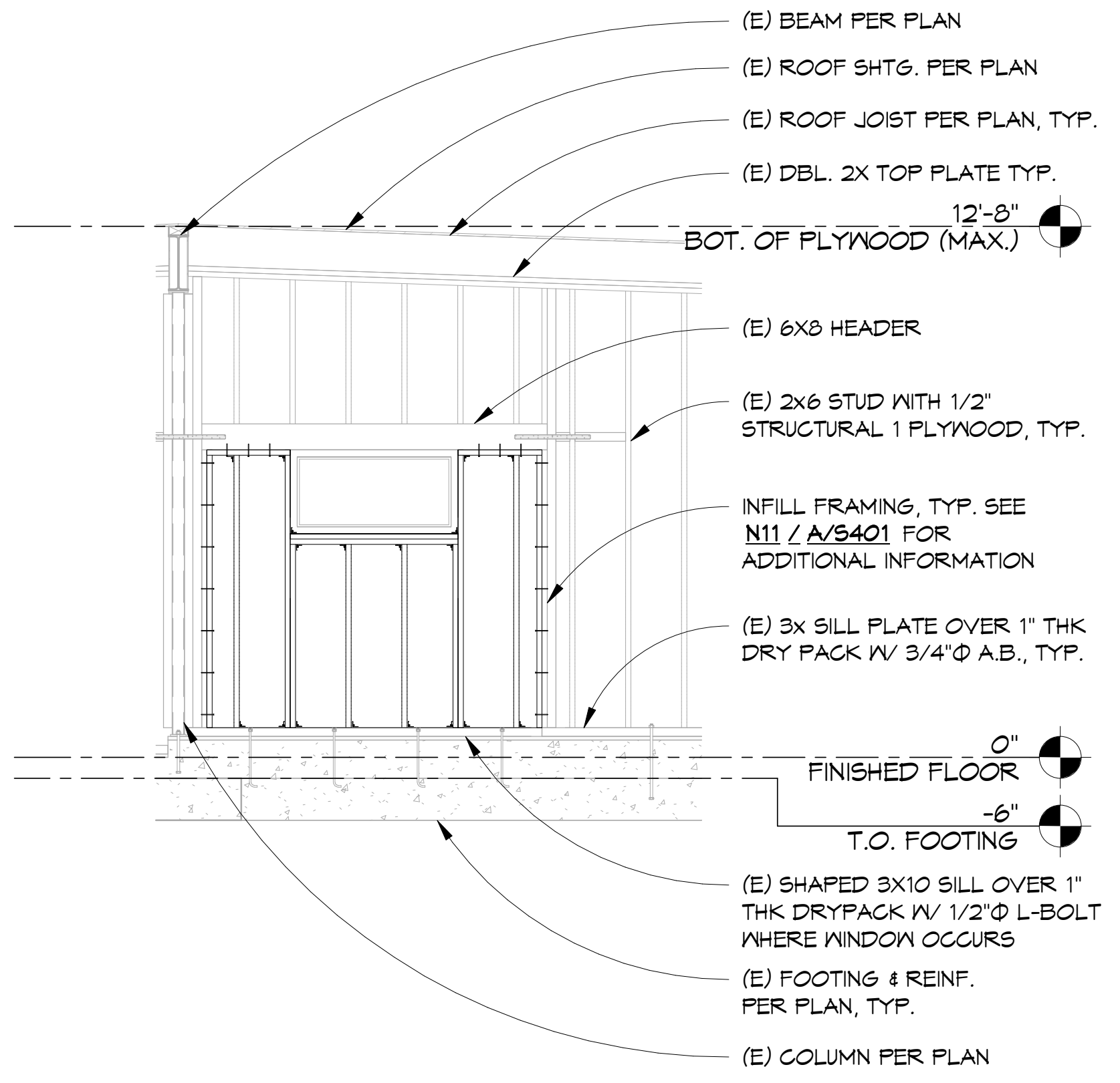
N4 ELEVATION

A/S201 A/S401 1/4" = 1'-0"


A.4
A.3
(E) ROOF SHTG. PER PLAN
(E) DBL. 2X TOP PLATE TYP.
2x NAILER W/ 16d 12" O.C. (2) 16d TO NAILER MIN., TYP.
2x TRIMMER WITH W/ SIMPSON A34 T&B, TYP.
2x NAILER @ EACH TRIMMER W/ 16d @ 12" O.C. MAX. AND 6" FROM ENDS TYP.
(E) 3x SILL PLATE OVER 1" THK DRY PACK W/ 3/4"Φ A.B., TYP.
REMOVE (E) CONCRETE CURB WHERE APPLICABLE
(E) FOOTING & REINF. PER PLAN
(E) ROOF JOIST PER PLAN
(E) BEAM PER PLAN
12'-8" BOT. OF PLYWOOD (MAX.)
(E) 6X6 HDR., TYP.
12'-0" BOT. OF PLYWOOD (MIN.)
8'-4" MANSARD CEILING
(E) 2x6 STUD WITH 1/2" STRUCTRUAL 1 PLYWOOD BOTH SIDES, TYP.
(E) POST PER PLAN
(N) SHEATHING AT WALL INFILL PER PLAN, TYP.
(E) HOLD DOWN, TYP.
0" FINISHED FLOOR
-6" T.O. FOOTING
(2) 2x WINDOW SILL W/ SIMPSON A35 T&B EA. END
2x STUDS @ 16" O.C. W/ SIMPSON A34 T&B, TYP.
(E) SHAPED 3X10 SILL OVER 1" THK DRYPACK W/ 1/2"Φ L-BOLT WHERE WINDOW OCCURS

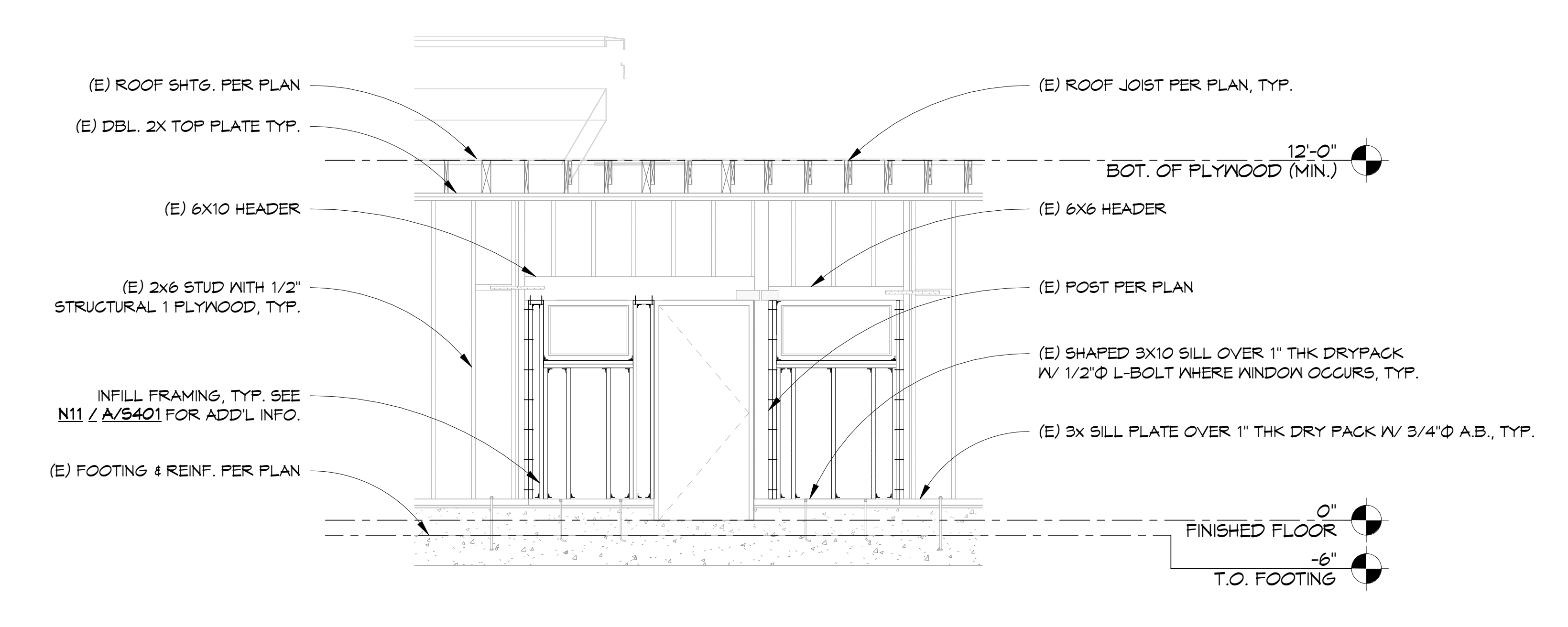
N11 ELEVATION

A/S201 A/S401 1/4" = 1'-0"


(E) BEAM PER PLAN
(E) ROOF SHTG. PER PLAN
(E) ROOF JOIST PER PLAN, TYP.
(E) DBL. 2X TOP PLATE TYP.
12'-8" BOT. OF PLYWOOD (MAX.)
(E) 6X8 HEADER
(E) 2x6 STUD WITH 1/2" STRUCTURAL 1 PLYWOOD, TYP.
INFILL FRAMING, TYP. SEE N11 / A/S401 FOR ADDITIONAL INFORMATION
(E) 3x SILL PLATE OVER 1" THK DRY PACK W/ 3/4"Φ A.B., TYP.
0" FINISHED FLOOR
-6" T.O. FOOTING
(E) SHAPED 3X10 SILL OVER 1" THK DRYPACK W/ 1/2"Φ L-BOLT WHERE WINDOW OCCURS
(E) FOOTING & REINF. PER PLAN, TYP.
(E) COLUMN PER PLAN

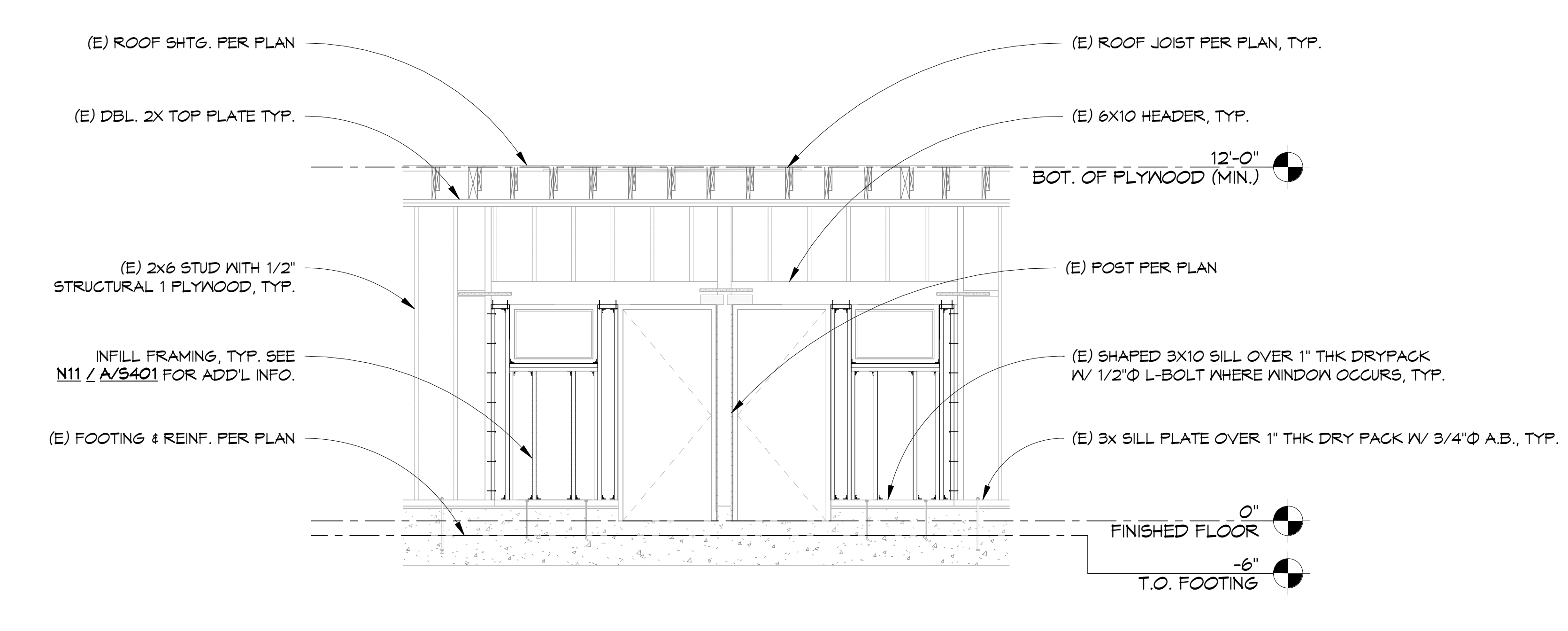
J1 PARTIAL ELEVATION

A/S201 A/S401 1/4" = 1'-0"


(E) ROOF SHTG. PER PLAN
(E) DBL. 2X TOP PLATE TYP.
(E) 6X10 HEADER
(E) 2x6 STUD WITH 1/2" STRUCTURAL 1 PLYWOOD, TYP.
INFILL FRAMING, TYP. SEE N11 / A/S401 FOR ADD'L INFO.
(E) FOOTING & REINF. PER PLAN
(E) ROOF JOIST PER PLAN, TYP.
12'-0" BOT. OF PLYWOOD (MIN.)
(E) 6X6 HEADER
(E) POST PER PLAN
(E) SHAPED 3X10 SILL OVER 1" THK DRYPACK W/ 1/2"Φ L-BOLT WHERE WINDOW OCCURS, TYP.
(E) 3x SILL PLATE OVER 1" THK DRY PACK W/ 3/4"Φ A.B., TYP.
0" FINISHED FLOOR
-6" T.O. FOOTING

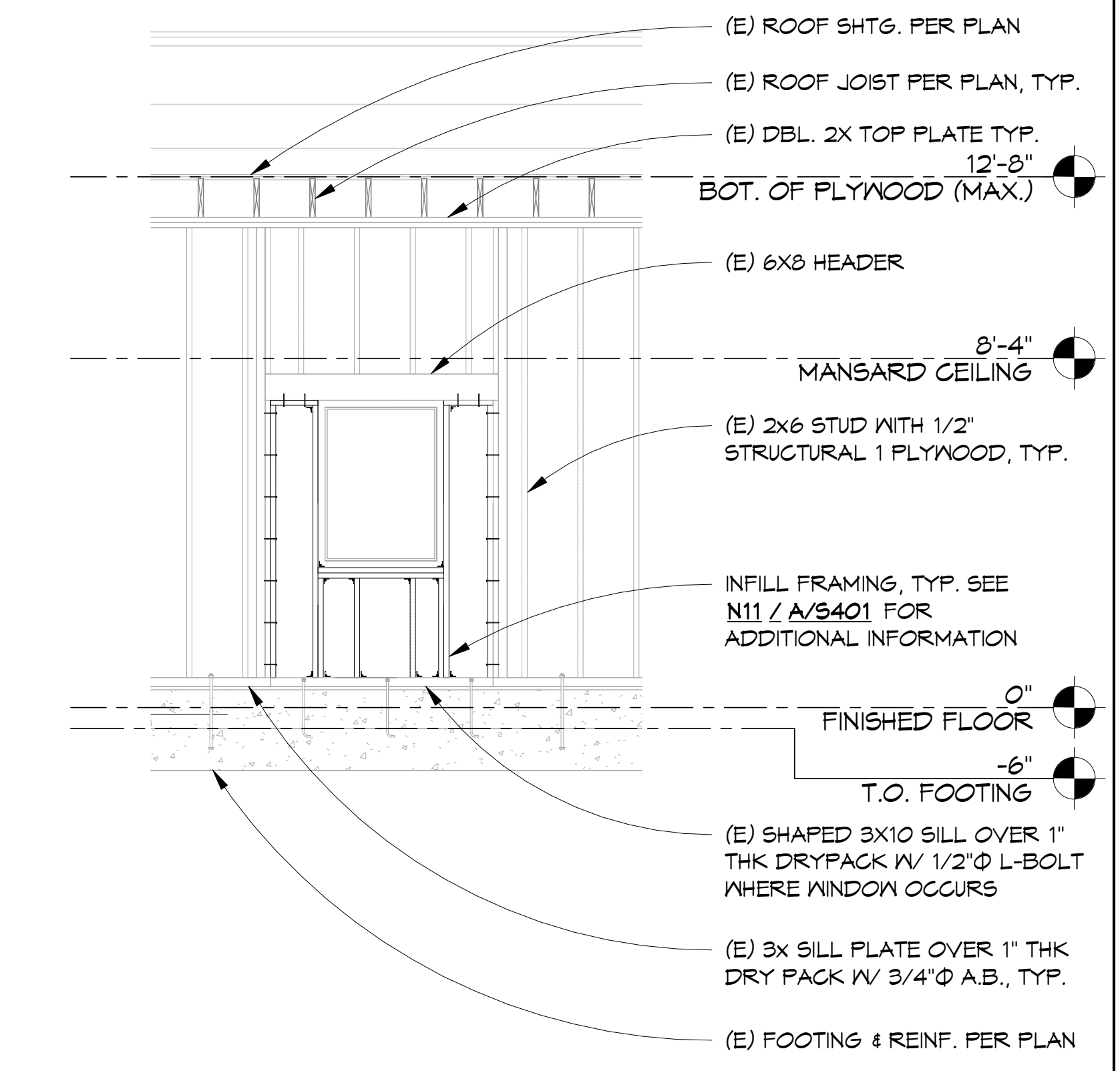
J4 PARTIAL ELEVATION

A/S201 A/S401 1/4" = 1'-0"


(E) ROOF SHTG. PER PLAN
(E) DBL. 2X TOP PLATE TYP.
(E) 2x6 STUD WITH 1/2" STRUCTURAL 1 PLYWOOD, TYP.
INFILL FRAMING, TYP. SEE N11 / A/S401 FOR ADD'L INFO.
(E) FOOTING & REINF. PER PLAN
(E) ROOF JOIST PER PLAN, TYP.
(E) 6X10 HEADER, TYP.
12'-0" BOT. OF PLYWOOD (MIN.)
(E) POST PER PLAN
(E) SHAPED 3X10 SILL OVER 1" THK DRYPACK W/ 1/2"Φ L-BOLT WHERE WINDOW OCCURS, TYP.
(E) 3x SILL PLATE OVER 1" THK DRY PACK W/ 3/4"Φ A.B., TYP.
0" FINISHED FLOOR
-6" T.O. FOOTING

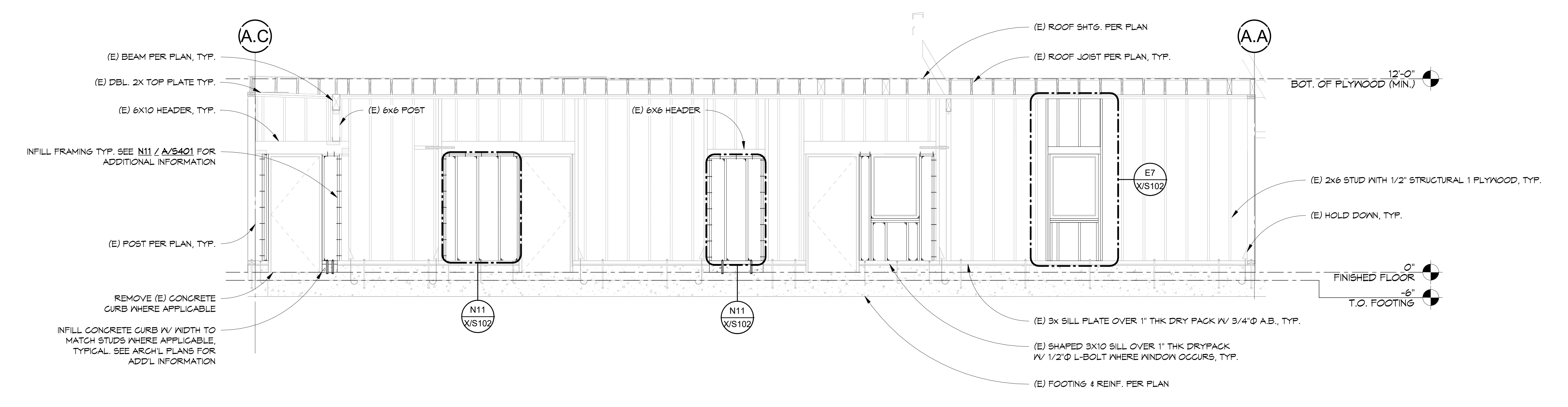
J11 PARTIAL ELEVATION

A/S201 A/S401 1/4" = 1'-0"


(E) ROOF SHTG. PER PLAN
(E) ROOF JOIST PER PLAN, TYP.
(E) DBL. 2X TOP PLATE TYP.
12'-8" BOT. OF PLYWOOD (MAX.)
(E) 6X8 HEADER
8'-4" MANSARD CEILING
(E) 2x6 STUD WITH 1/2" STRUCTURAL 1 PLYWOOD, TYP.
INFILL FRAMING, TYP. SEE N11 / A/S401 FOR ADDITIONAL INFORMATION
0" FINISHED FLOOR
-6" T.O. FOOTING
(E) SHAPED 3X10 SILL OVER 1" THK DRYPACK W/ 1/2"Φ L-BOLT WHERE WINDOW OCCURS
(E) 3x SILL PLATE OVER 1" THK DRY PACK W/ 3/4"Φ A.B., TYP.
(E) FOOTING & REINF. PER PLAN

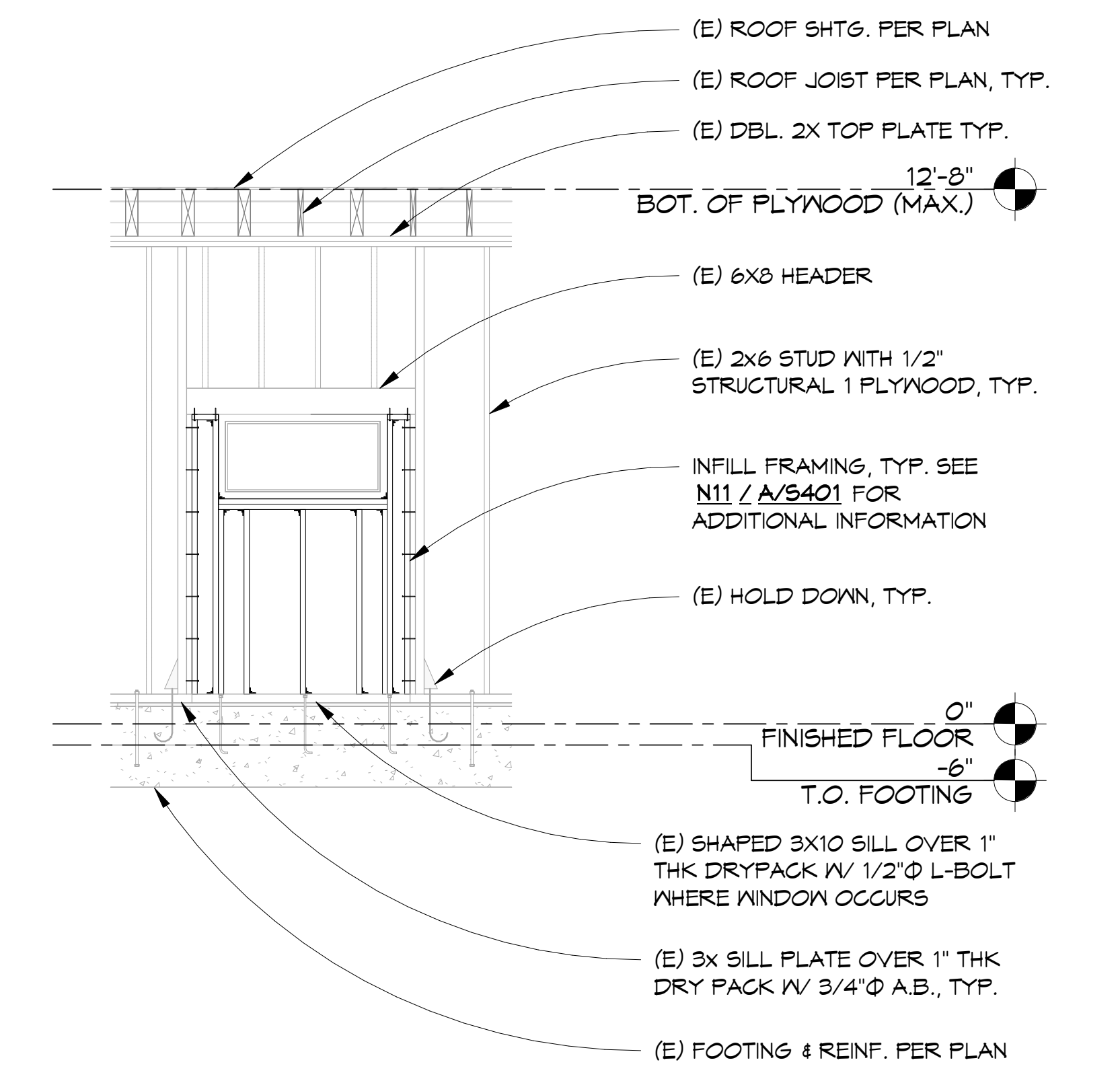
E1 PARTIAL ELEVATION

A/S201 A/S401 1/4" = 1'-0"


A.C
A.A
(E) BEAM PER PLAN, TYP.
(E) DBL. 2X TOP PLATE TYP.
(E) 6X10 HEADER, TYP.
INFILL FRAMING TYP. SEE N11 / A/S401 FOR ADDITIONAL INFORMATION
(E) POST PER PLAN, TYP.
REMOVE (E) CONCRETE CURB WHERE APPLICABLE
INFILL CONCRETE CURB W/ WIDTH TO MATCH STUDS WHERE APPLICABLE, TYPICAL. SEE ARCH'L PLANS FOR ADD'L INFORMATION
(E) 6x6 POST
(E) 6X6 HEADER
N11 X/S102
N11 X/S102
E7 X/S102
(E) ROOF SHTG. PER PLAN
(E) ROOF JOIST PER PLAN, TYP.
12'-0" BOT. OF PLYWOOD (MIN.)
(E) 2x6 STUD WITH 1/2" STRUCTURAL 1 PLYWOOD, TYP.
(E) HOLD DOWN, TYP.
0" FINISHED FLOOR
-6" T.O. FOOTING
(E) 3x SILL PLATE OVER 1" THK DRY PACK W/ 3/4"Φ A.B., TYP.
(E) SHAPED 3X10 SILL OVER 1" THK DRYPACK W/ 1/2"Φ L-BOLT WHERE WINDOW OCCURS, TYP.
(E) FOOTING & REINF. PER PLAN

E4 ELEVATION

A/S201 A/S401 1/4" = 1'-0"


(E) ROOF SHTG. PER PLAN
(E) ROOF JOIST PER PLAN, TYP.
(E) DBL. 2X TOP PLATE TYP.
12'-8" BOT. OF PLYWOOD (MAX.)
(E) 6X8 HEADER
(E) 2x6 STUD WITH 1/2" STRUCTURAL 1 PLYWOOD, TYP.
INFILL FRAMING, TYP. SEE N11 / A/S401 FOR ADDITIONAL INFORMATION
(E) HOLD DOWN, TYP.
0" FINISHED FLOOR
-6" T.O. FOOTING
(E) SHAPED 3X10 SILL OVER 1" THK DRYPACK W/ 1/2"Φ L-BOLT WHERE WINDOW OCCURS
(E) 3x SILL PLATE OVER 1" THK DRY PACK W/ 3/4"Φ A.B., TYP.
(E) FOOTING & REINF. PER PLAN

A1 PARTIAL ELEVATION

A/S201 A/S401 1/4" = 1'-0"

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DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

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GAYLORD R. RANSOM
No. S2386
EXPIRES 3-31-26

Consultant

Community Day School Modernization
Merced City Unified School District
Merced, CA, 95340

Project

BUILDING A
ELEVATIONS AND DETAILS

Drawing

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PLANNING
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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

	Designed By: GR	Copyright 2026 Darden Architects
Scale: 1/4" = 1'-0"	Drawn By: GR	*A/S401*
Project Number: 2533	Checked By: SOC	
Date: 2/9/2026	Reviewed By: SOC	

GENERAL NOTES :

1. THE INTENT OF THE DRAWING AND SPECIFICATIONS IS TO CONSTRUCT THE BUILDING IN ACCORDANCE WITH THE 2022 EDITION OF TITLE 24, CALIFORNIA CODE OF REGULATIONS. CHANGES TO THE STRUCTURAL, ACCESSIBILITY OR FIRE AND LIFE-SAFETY PORTIONS OF THE APPROVED PLANS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT AS REQUIRED IN SECTION 4-338, PART 1, TITLE 24, CCR, AND SHALL BE SUBMITTED TO AND APPROVED BY DSA PRIOR TO COMMENCEMENT OF THE WORK. DOCUMENTS SHALL BE PREPARED AND SUBMITTED TO DSA IN COMPLIANCE WITH DSA INTERPRETATION OF REGULATION IR A-6.

2. LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY. THE HVAC BUILDING PLANS HAVE BEEN PREPARED TO MATCH THE ARCHITECTURAL PLANS. IF DIFFERENCES OCCUR, THE ARCHITECTURAL PLANS ARE TO TAKE PRECEDENCE. THE ACTUAL LOCATIONS OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED, PRIOR TO INSTALLATION OF ANY WORK, TO AVOID ALL INTERFERENCE WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL, OR OTHER ELEMENTS. ALL DUCT AND PIPE OFFSET ELBOWS FOR COORDINATION BETWEEN TRADES ARE NOT SHOWN. CONTRACTOR SHALL INCLUDE SUFFICIENT FUNDS FOR THE COORDINATION OFFSETS IN THE BID. VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE ELECTRICAL PLANS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.

3. WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER-DRIVEN PINS IN EXISTING NON-PRESTRESSED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRESTRESSED CONCRETE (PRE- OR POST-TENSIONED), LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.

4. ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE THERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 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.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER 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 THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

5. 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 SECTION 13.3 AS DEFINED IN ASCE 7 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR THE CONTENT ON THE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR16-13.

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 OPM, WITHIN PROJECT SUBMITTAL.

MP ☐ MD ☐ PP ☐ E ☐ OPTION 3: SHALL COMPLY WITH THE APPLICABLE OSHPD OPM, DEFERRED SUBMITTAL

6. PENETRATIONS THROUGH FIRE RATED WALLS, FLOOR/CEILING, AND ROOF/CEILING ASSEMBLIES SHALL BE SEALED USING AN APPROVED SYSTEM CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN SUBJECTED TO THE REQUIREMENTS OF THE TEST STANDARD SPECIFIC TO FIRE STOPS PER 2022 CBC SECTION 714. THIS INCLUDES EXISTING PIPE AND CONDUIT THROUGH NEW ASSEMBLIES. CUSTOM DESIGNED SYSTEMS WHICH COMBINE COMPONENTS FROM DIFFERENT APPROVED SYSTEMS BUT HAVE NOT BEEN TESTED AS A COMPLETE ASSEMBLY WILL NOT BE ACCEPTABLE. FOR FIRE STOPS FOR PIPE PENETRATIONS SEE SPECIFICATIONS.

7. DUCTWORK SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. WHERE ACOUSTIC LINING IS SHOWN, INCREASE EACH SHEET METAL DIMENSION TO ACCOMMODATE LINING & MAINTAIN CLEAR INSIDE DUCT DIMENSIONS SHOWN.

8. SA DUCTWORK SHALL BE 1" PRESSURE CLASS, AND RA & EA DUCTWORK SHALL 1" PRESSURE CLASS UNLESS OTHERWISE NOTED.

9. ALL DIFFUSERS ARE 4-WAY DISTRIBUTION UNLESS OTHERWISE NOTED ON THE PLANS.

10. A DSA CERTIFIED PROJECT INSPECTOR (CLASS 2) EMPLOYED BY THE DISTRICT & APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-338, PART 1, TITLE 24, CCR.

11. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

AIR CONDITIONING LEGEND

SYMBOL	ITEM	ABBR
	ROUND DUCT	Ø
	FLAT OVAL DUCT	⊖
	SHEET METAL DUCT	—
	ACOUSTIC LINING FOR DUCT OR GRILLES	(L)
	SUPPLY AIR DUCT DROP	—
	RETURN AIR DUCT DROP	—
	EXHAUST DUCT AIR DROP	—
	SUPPLY AIR DUCT RISE	—
	RETURN AIR DUCT RISE	—
	EXHAUST AIR DUCT RISE	—
	TURNING VANES	TV
	EXTRACTOR	—
	VOLUME CONTROL DAMPER W/LOCKING QUADRANT	VCD
	OPPOSED BLADE DAMPER	OBD
	BACKDRAFT DAMPER	BDD
	VOLUME CONTROL DAMPER W/ REMOTE REGULATOR	VCR
& ■	FIRE/SMOKE DAMPER WITH ACCESS PANEL	F/SD
& ▲	FIRE DAMPER WITH ACCESS PANEL	FD
& ◆	SMOKE DAMPER WITH ACCESS PANEL	SD
CFM	CUBIC FEET OF AIR PER MINUTE	CFM
M	EMS MOTORIZED DUCT DAMPER/ PIPE VALVE ACTUATOR	—
Ⓣ	THERMOSTAT @ +4'-0" TOP OF BOX	T'STAT
Ⓗ	HUMIDISTAT @ +4'-0" TOP OF BOX	H'STAT
Ⓒ	CO_2 SENSOR @ +4'-0" TOP OF BOX	CO_2
T	EMS TEMPERATURE SENSOR @ +4'-0" AFF MAX TO TOP OF BOX	—
H	EMS HUMIDITY SENSOR @ +4'-0" TOP OF BOX	—
C	EMS CO_2 SENSOR @ +4'-0" TOP OF BOX	CO_2
SP	EMS STATIC PRESSURE SENSOR	SP
DP	EMS DIFFERENTIAL PRESSURE SENSOR	DP
CS	EMS CURRENT SENSOR	CS
	DIRECTION OF FLOW	—
	SUPPLY AIR	SA
	RETURN AIR	RA
	EXHAUST AIR	EA
—	OUTSIDE AIR	OSA
	PIPE/DUCT TURN DOWN	—
	PIPE/DUCT TURN UP	—
	POINT OF CONNECTION	POC
- - - - -	EXISTING (DESIGNATED)	(E)
———	NEW (DESIGNATED)	(N)
SD	DUCT SMOKE DETECTOR	SD
A/V	AUDIBLE/VISUAL ALARM	A/VA
▭	BYPASS TIMER	BPT
—EMS—	ENERGY MANAGEMENT SYSTEM CABLE IN CONDUIT	EMS

ROUND DUCT SEISMIC REGULATIONS

26 GA. (LBS/SQFT)	0.906
24 GA. (LBS/SQFT)	1.156
22 GA. (LBS/SQFT)	1.406

HANGER SPACING: 10' O.C.

DUCT DIAM. (IN.)	GALV. METAL GA.	CROSS-SECTIONAL AREA (SQFT)	GALV. METAL LBS/FT
6"	26	0.20	1.4
8"	26	0.35	1.9
10"	26	0.55	2.4
12"	26	0.79	2.8
14"	26	1.07	3.3

SEISMIC EXEMPTION NOTES:

1. CROSS-SECTIONAL AREA FOR ALL DUCTS IS LESS THAN 6 SQ.FT.
2. ALL DUCTS ARE LESS THAN 20 LBS PER LINEAL FOOT.
3. THE SEPARATION DISTANCE BETWEEN AN UNBRACED COMPONENT AND BRACED ELEMENTS OR COMPONENTS SHALL BE BASED ON A MINIMUM HORIZONTAL DISTANCE OF 12 INCHES. WHEN ADJACENT COMPONENTS ARE ALSO UNBRACED, THIS SEPARATION SHALL BE INCREASED TO A MINIMUM OF 18 INCHES.

* FOR DUCTS THAT EXCEED THE ABOVE EXEMPTION NOTES, CONTRACTOR TO SUBMIT SEISMIC BRACING CALCULATIONS, DETAILS, AND PLANS PER MASON WEST PRE-APPROVED OPM #0043.

RECTANGULAR DUCT SEISMIC REGULATIONS

26 GA. (LBS/SQFT)	0.75
24 GA. (LBS/SQFT)	1.00
22 GA. (LBS/SQFT)	1.25
20 GA. (LBS/SQFT)	1.50
18 GA. (LBS/SQFT)	2.00
16 GA. (LBS/SQFT)	2.50

HANGER SPACING: 10' O.C.

DUCT DIM. W X D (IN.)		SHEET METAL GA.	CROSS-SECTIONAL AREA (SQFT)	SHEET METAL LBS/FT
12"	16"	26	1.33	3.5

P/2
28"

SEISMIC EXEMPTION NOTES:

1. CROSS-SECTIONAL AREA FOR ALL DUCTS IS LESS THAN 6 SQ.FT.
2. ALL DUCTS ARE LESS THAN 20 LBS PER LINEAL FOOT.
3. THE SEPARATION DISTANCE BETWEEN AN UNBRACED COMPONENT AND BRACED ELEMENTS OR COMPONENTS SHALL BE BASED ON A MINIMUM HORIZONTAL DISTANCE OF 12 INCHES. WHEN ADJACENT COMPONENTS ARE ALSO UNBRACED, THIS SEPARATION SHALL BE INCREASED TO A MINIMUM OF 18 INCHES.

* FOR DUCTS THAT EXCEED THE ABOVE EXEMPTION NOTES, CONTRACTOR TO SUBMIT SEISMIC BRACING CALCULATIONS, DETAILS, AND PLANS PER MASON WEST PRE-APPROVED OPM #0043.

PACKAGE HEAT PUMP SCHEDULE

DESIGNATION		HP 1	HP 2	HP 3	HP 4	HP 5
VOLTS/PHASE		208-230 / 3	208-230 / 3	208-230 / 3	208-230 / 3	208-230 / 3
M.C.A		28.0	28.0	28.0	28.0	23.0
M.O.C.P.		40.0	40.0	40.0	40.0	30.0
SEER/SEER2 @ AHRI		16.8 / 16.2	16.8 / 16.2	16.8 / 16.2	16.8 / 16.2	16.8 / 16.2
EER/EER2 @ AHRI		13.5 / 12.8	13.5 / 12.8	13.5 / 12.8	13.5 / 12.8	13.5 / 12.8
BLOWER	SUPPLY AIR (CFM)	1,600	1,600	1,600	1,600	1,200
	EXT. SP (IN. WC)	0.8	0.8	0.8	0.8	0.8
	MAX-MIN OSA / MIN-MIN OSA	480 / 296	480 / 296	480 / 296	425 / 296	260 / 260
	HP	3	3	3	3	3
	RPM	890	890	890	890	829
	DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
COOLING	SENSIBLE (MBH)	44.8	44.8	44.8	44.8	31.5
	TOTAL (MBH)	44.8	44.8	44.8	44.8	32.0
	EADB/EAWB (°F)	85.0 / 66.0	85.0 / 66.0	85.0 / 66.0	85.0 / 66.0	82.0 / 65.0
	AMBIENT AIR (°F)	105	105	105	105	105
	UNIT DISCH. TEMP (°F)	58.5	58.5	58.5	58.5	58.3
	REFRIG. TYPE / CLASS	R454B / A2L	R454B / A2L	R454B / A2L	R454B / A2L	R454B / A2L
	TONS OF REFRIGERATION	4	4	4	4	3
NAT GAS HEAT	INPUT (MBH)	80	80	80	80	80
	OUTPUT (MBH)	65	65	65	65	65
	EAT (°F)	70	70	70	70	70
	LAT (°F)	107	107	107	107	119
	STAGES	2	2	2	2	2
HEAT PUMP HEAT	CAPACITY @ 47 DEG.(MBH)	43.10	43.10	43.10	43.10	32.53
	HSPF / HSPF2	8.50 / 7.20	8.50 / 7.20	8.50 / 7.20	8.50 / 7.20	8.50 / 7.20
	COP / COP2 @ 47°F	3.80 / 3.74	3.80 / 3.74	3.80 / 3.74	3.80 / 3.74	3.80 / 3.80
	COP / COP2 @ 17°F	2.46 / 2.42	2.46 / 2.42	2.46 / 2.42	2.46 / 2.42	2.46 / 2.42
	EAT (°F)	70	70	70	70	70
	LAT (°F)	99	99	99	99	99
FILTERS	QUANTITY / SIZE	4 / 20x20x2	4 / 20x20x2	4 / 20x20x2	4 / 20x20x2	4 / 20x20x2
	TYPE	MERV13	MERV13	MERV13	MERV13	MERV13
	P D (IN WC)	0.03	0.03	0.03	0.03	0.03
MANUFACTURER		TRANE	TRANE	TRANE	TRANE	TRANE
UNIT TYPE		HEAT PUMP / HYBRID HEAT GAS	HEAT PUMP / HYBRID HEAT GAS	HEAT PUMP / HYBRID HEAT GAS	HEAT PUMP / HYBRID HEAT GAS	HEAT PUMP / HYBRID HEAT GAS
MODEL NUMBER		DHK048A3S0L	DHK048A3S0L	DHK048A3S0L	DHK048A3S0L	DHK036A3S0L
LOCATION		ROOFTOP	ROOFTOP	ROOFTOP	ROOFTOP	ROOFTOP
OPER. WT (LBS)		1,105	1,105	1,105	1,105	1,075
ACCESSORIES		1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6

1. MODULATING TITLE 24 COMPLIANT POWER EXHAUST AND ECONOMIZER, REQUIRES SEPARATE POWER AND DISCONNECT. POWER REQUIREMENTS: 208-230V/3 PH, 3.9 FLA, 4.9 MCA, 8.8 MOCP. (WEIGHT INCLUDED IN WEIGHT LISTED ABOVE).
2. FACTORY ADAPTER CURB PROVIDED BY MECHANICAL CONTRACTOR; ADDS APPROX. 235 LBS TO OPERATING WEIGHT
3. 2-STAGE DIRECT DRIVE, HERMETICALLY SEALED DUAL SCROLL COMPRESSORS
4. HYBRID HEAT GAS TO BE UTILIZED DURING DEFROST AND WHEN OUTDOOR TEMP FALLS BELOW HEAT PUMP LOCKOUT SET POINT
5. DEMAND CONTROL VENTILATION w/ CO2 SENSORS BY EMS
6. FACTORY TO PROVIDE AND MOUNT UNIT CONTROLLER FOR INTEGRATION INTO EXISTING TRANE BMS

EXHAUST FAN SCHEDULE

DESIGNATION		EF 1	EF 2	EF 3	EF 4	EF 5
VOLTS / PHASE		115 / 1	115 / 1	115 / 1	115 / 1	115 / 1
MCA / MOP		1.9 / 15	1.9 / 15	1.9 / 15	0.4 / 15	0.4 / 15
FLA (A)		1.50	1.50	1.50	0.29	0.29
BLOWER	CFM	200	200	200	75	75
	EXT. S.P. (IN. WC)	0.08	0.08	0.08	0.09	0.09
	HP / BHP	- / 0.02	- / 0.02	- / 0.02	- / 0.004	- / 0.004
	RPM	778	778	778	773	773
	TIP SPEED/ SONES	- / 1.5	- / 1.5	- / 1.5	- / 0.6	- / 0.6
	DISCHARGE VEL. (FPM)	185	185	185	889	889
	DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
MANUFACTURER		GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL NUMBER		SP-A390-VG	SP-A390-VG	SP-A390-VG	SP-LP0511-1	SP-LP0511-1
TYPE		CEILING	CEILING	CEILING	CEILING	CEILING
CONTROL		I.L.w/ LIGHTS	I.L.w/ LIGHTS	I.L.w/ LIGHTS	I.L.w/ LIGHTS	I.L.w/ LIGHTS
SERVICE		109 - CUSTODIAN	108 - BOYS RR	110 - GIRLS RR	104 - STAFF RR	105 - STAFF RR
OPER. WT. (LBS)		30	30	30	10	10
ACCESSORIES		1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3

1. INTEGRATED BACKDRAFT DAMPER
2. PITCHED ROOF CAP
3. FACTORY INSTALLATION MOUNTING BRACKET

GRILLE SCHEDULE

MARK	DUTY	DESCRIPTION
A	CEILING SUPPLY	TITUS TDC (TYPE 3) LOUVER FACE SQUARE OR RECTANGULAR NECK DIFFUSER FOR STD. LAY-IN CEILING, AND NO. 26 OFF-WHITE FINISH. (18"X18" NECK ADAPTER SIZE SHOWN).
B	CEILING RETURN OR EXHAUST	TITUS CORE 50F (TYPE 3) ALUMINUM EGG CRATE REGISTER WITH 1/2" x 1/2" GRID, FOR LAY-IN CEILING, AND NO. 26 OFF-WHITE FINISH.
C	CEILING SUPPLY	TITUS TDC (TYPE 1) LOUVER FACE SQUARE OR RECTANGULAR NECK DIFFUSER FOR SURFACE MOUNTING, AND NO. 26 OFF-WHITE FINISH.

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

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RYAN W. CARLSON
No. M34846
Exp. 6-30-26

Community Day School Modernization
Merced City Unified School District
Merced, CA, 95340
Project

TYPICAL INFORMATION
MECHANICAL NOTES & SCHEDULES
Drawing

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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

Architect

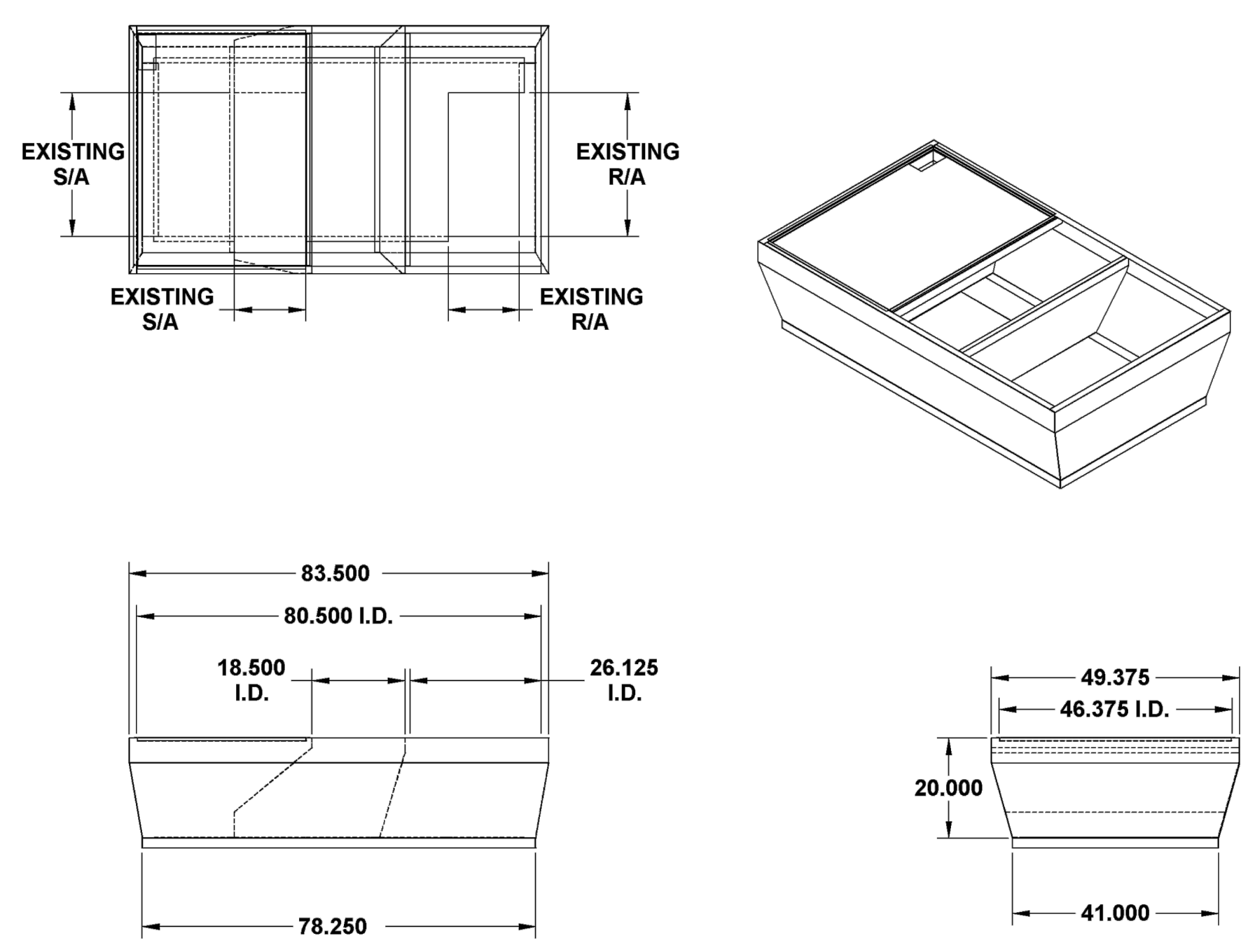
No.	Revision/Submission	Date

Revision

	Designed By:	
Scale:	Drawn By: LEG	X/M101
Project Number: 2533	Checked By:	
Date: 2/9/26	Reviewed By: RC	

A1 Mechanical Notes & Schedules

6 February 2026 12:21 PM P:\2025\25087 Merced Community Day School Modernization\4-Drawings\4 M\M101 MECHANICAL NOTES & SCHEDULES.dwg dominic



Features:

- Fully assembled curb adaptor.
- Includes internal duct transitions.
- Internally insulated with 1" - 1.5" lb insulation. Gasketing package provided.
- Adaptor pans and supports provided / field installed

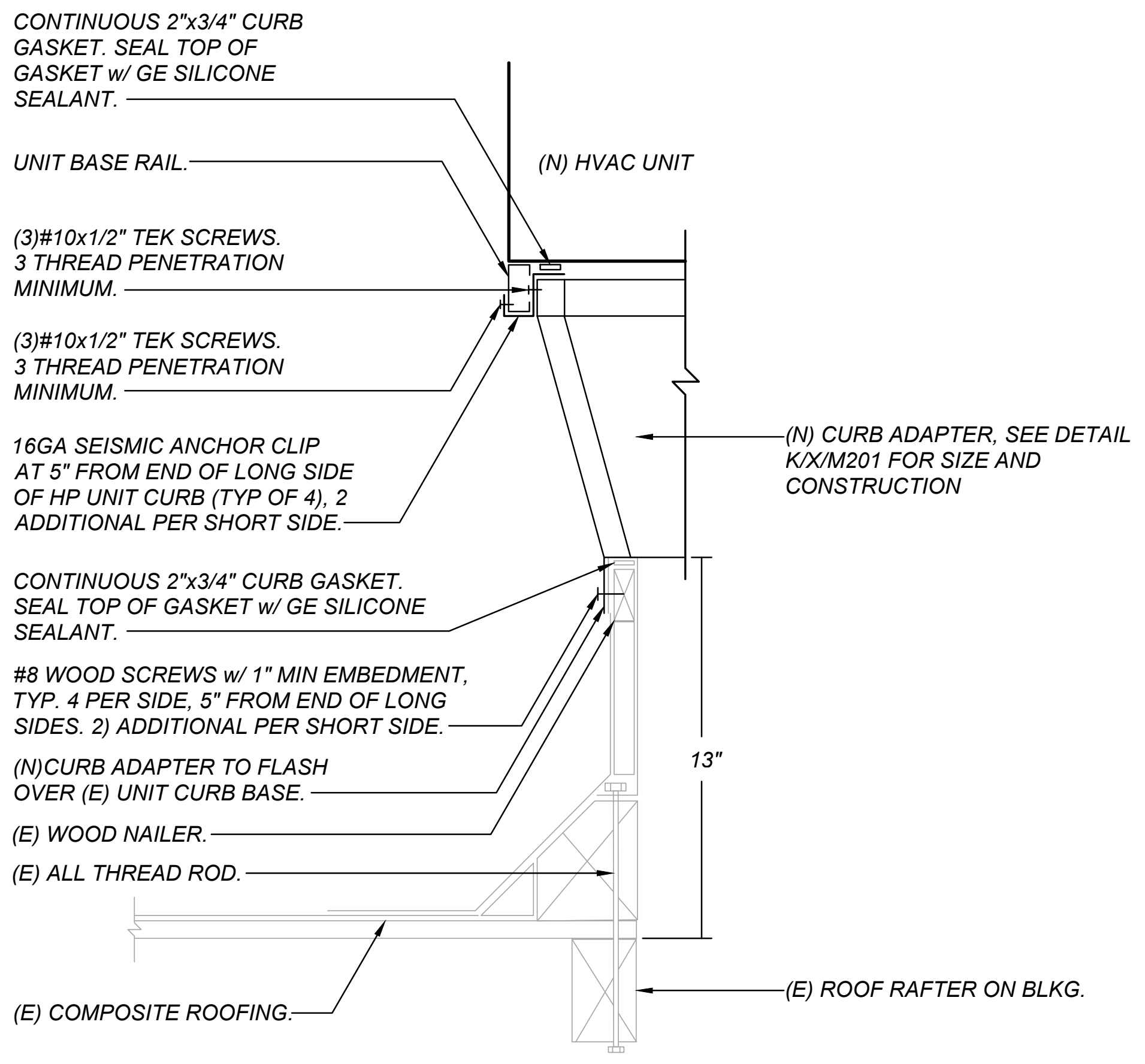
Curb Adaptor Information

- To verify that the curb adaptor shown on this page is the correct adaptor for you job be sure the existing curb is the same size as the dimensions provided. (The bottom dimensions of curb adaptor are larger than existing curb outside dimension.)
- Before new HVAC unit is set in place, inspect structural stability of existing curb and building's roof load capability. Reinforce if required.
- All curb adaptors will increase the systems external static pressure and must be included when calculating unit requirements.
- Curb adaptors are designed to attach to an existing curb with side x side duct connections. The curb adaptor is not designed for use with concentric duct configuration.
- No calculations are available for this product. For a calculated product, please contact factory for part number, pricing, and lead time.
- Please contact factory for more detailed dimensional information if required. Designs are based on standard factory dimensions, and may differ in the field.

MICROMETL ADAPTER CURB DETAIL

SCALE: NONE

K
X/M201

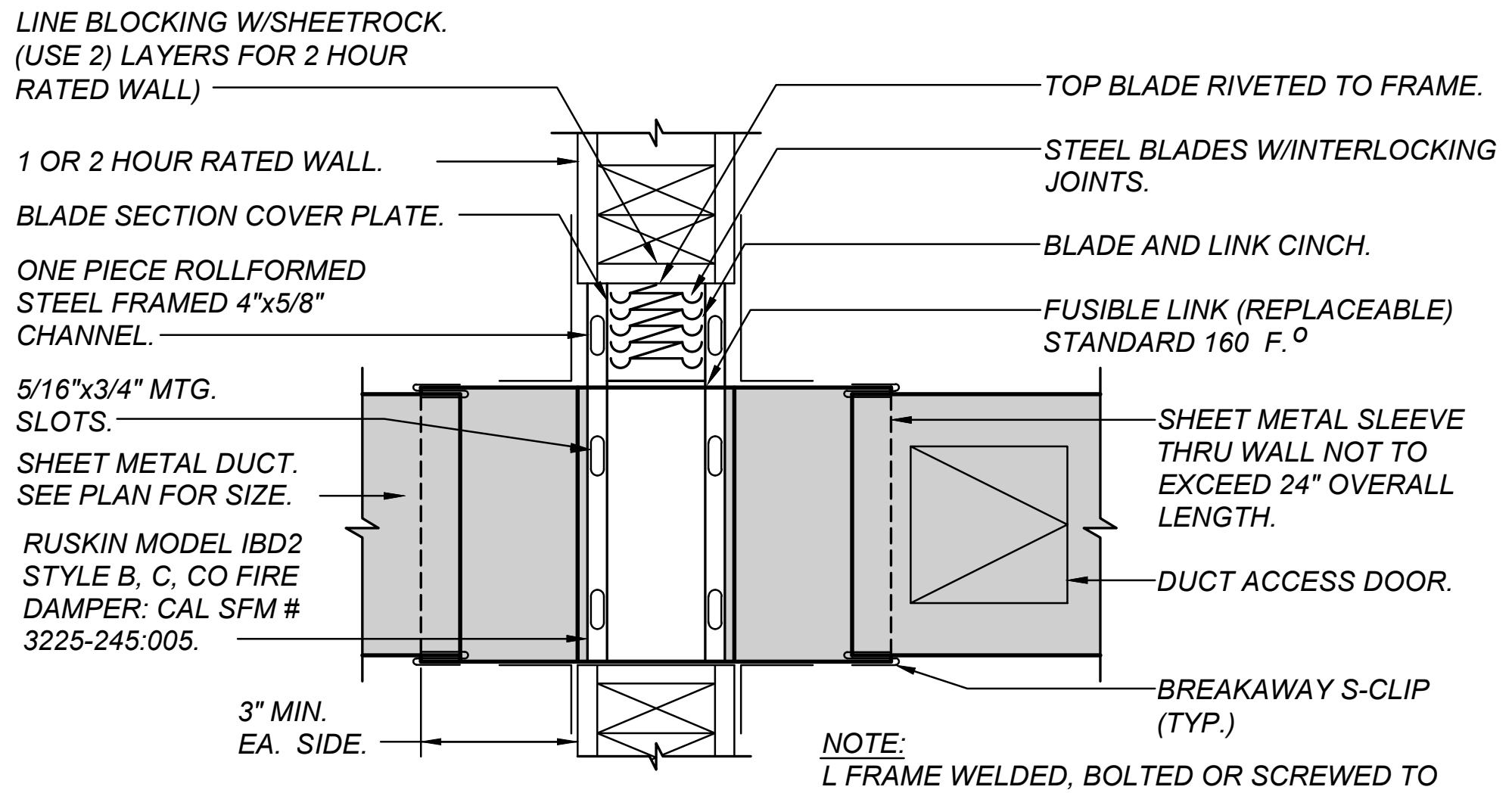

CONTINUOUS 2"x3/4" CURB GASKET. SEAL TOP OF GASKET w/ GE SILICONE SEALANT.
UNIT BASE RAIL.
(N) HVAC UNIT
(3)#10x1/2" TEK SCREWS. 3 THREAD PENETRATION MINIMUM.
(3)#10x1/2" TEK SCREWS. 3 THREAD PENETRATION MINIMUM.
16GA SEISMIC ANCHOR CLIP AT 5" FROM END OF LONG SIDE OF HP UNIT CURB (TYP OF 4), 2 ADDITIONAL PER SHORT SIDE.
(N) CURB ADAPTER, SEE DETAIL K/X/M201 FOR SIZE AND CONSTRUCTION
CONTINUOUS 2"x3/4" CURB GASKET. SEAL TOP OF GASKET w/ GE SILICONE SEALANT.
#8 WOOD SCREWS w/ 1" MIN EMBEDMENT, TYP. 4 PER SIDE, 5" FROM END OF LONG SIDES. 2) ADDITIONAL PER SHORT SIDE.
(N)CURB ADAPTER TO FLASH OVER (E) UNIT CURB BASE.
13"
(E) WOOD NAILER.
(E) ALL THREAD ROD.
(E) COMPOSITE ROOFING.
(E) ROOF RAFTER ON BLKG.

HP UNIT ROOF MOUNTING DETAIL

SCALE: NONE

MM117

L
X/M201


LINE BLOCKING W/SHEETROCK. (USE 2) LAYERS FOR 2 HOUR RATED WALL)
1 OR 2 HOUR RATED WALL.
BLADE SECTION COVER PLATE.
ONE PIECE ROLLFORMED STEEL FRAMED 4"x5/8" CHANNEL.
5/16"x3/4" MTG. SLOTS.
SHEET METAL DUCT. SEE PLAN FOR SIZE.
RUSKIN MODEL IBD2 STYLE B, C, CO FIRE DAMPER: CAL SFM # 3225-245:005.
3" MIN. EA. SIDE.
TOP BLADE RIVETED TO FRAME.
STEEL BLADES W/INTERLOCKING JOINTS.
BLADE AND LINK CINCH.
FUSIBLE LINK (REPLACEABLE) STANDARD 160 F.°
SHEET METAL SLEEVE THRU WALL NOT TO EXCEED 24" OVERALL LENGTH.
DUCT ACCESS DOOR.
BREAKAWAY S-CLIP (TYP.)

FIRE DAMPER SPECIFICATION:
ALL FIRE DAMPERS SHALL BE STATE FIRE MARSHAL APPROVED & INSTALLED STRICTLY PER MANUFACTURERS PRINTED INSTRUCTIONS. MANUFACTURERS INSTALLATION INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITIES.

NOTE:
L FRAME WELDED, BOLTED OR SCREWED TO ALL 4 SIDES OF SLEEVE. L FRAME SHALL BE DESIGNED TO LAP WALL NOT LESS THAN 1". ROUGH OPENING IN MASONRY WALLS & NET OPENING IN FRAME WALLS SHALL EXCEED NET O.D. OF DAMPER ASSEMBLY. DO NOT FASTEN SIDES OR TOP OF L TO WALL OR PARTITION.

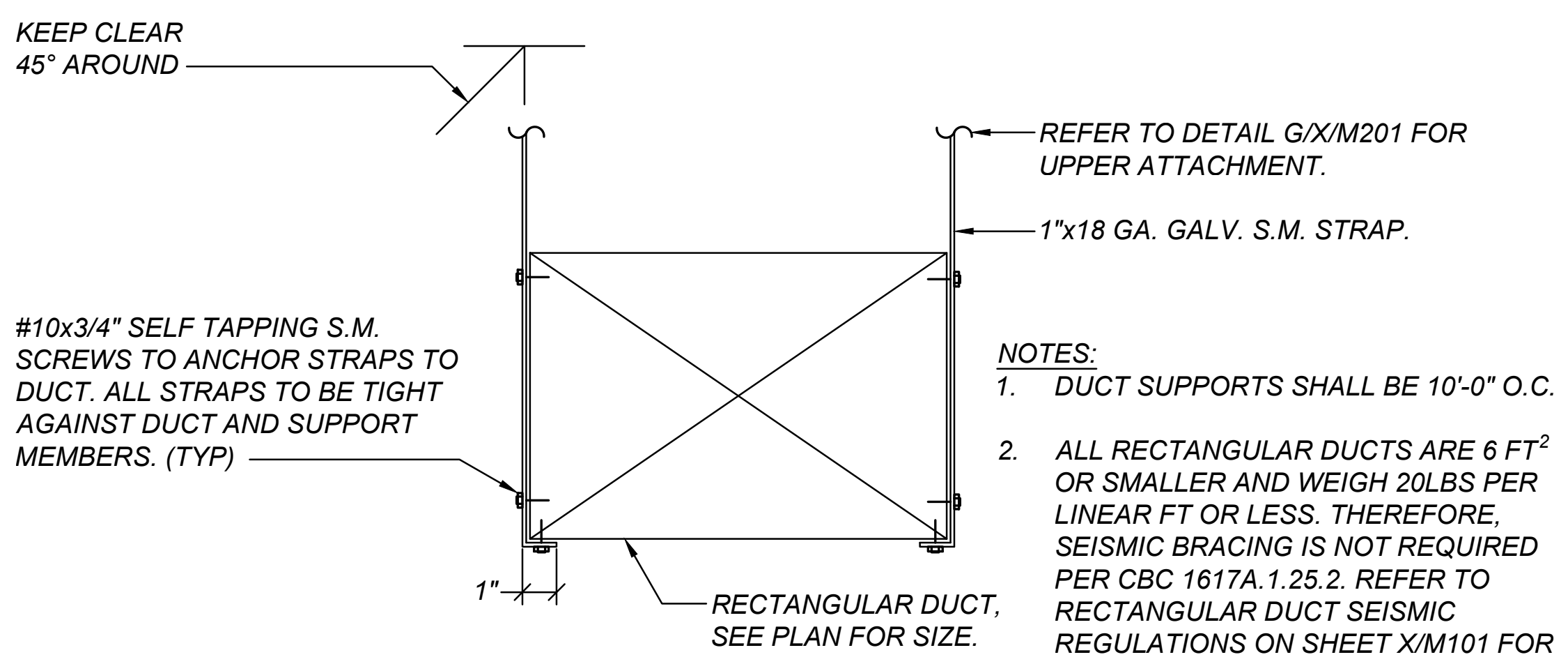
FIRE DAMPER AT WALL DETAIL

SCALE: NONE

FIRE DAMPER DETAIL FOR REFERENCE ONLY.

MF001

M
X/M201


KEEP CLEAR 45° AROUND
REFER TO DETAIL G/X/M201 FOR UPPER ATTACHMENT.
1"x18 GA. GALV. S.M. STRAP.
#10x3/4" SELF TAPPING S.M. SCREWS TO ANCHOR STRAPS TO DUCT. ALL STRAPS TO BE TIGHT AGAINST DUCT AND SUPPORT MEMBERS. (TYP)
1"
RECTANGULAR DUCT, SEE PLAN FOR SIZE.

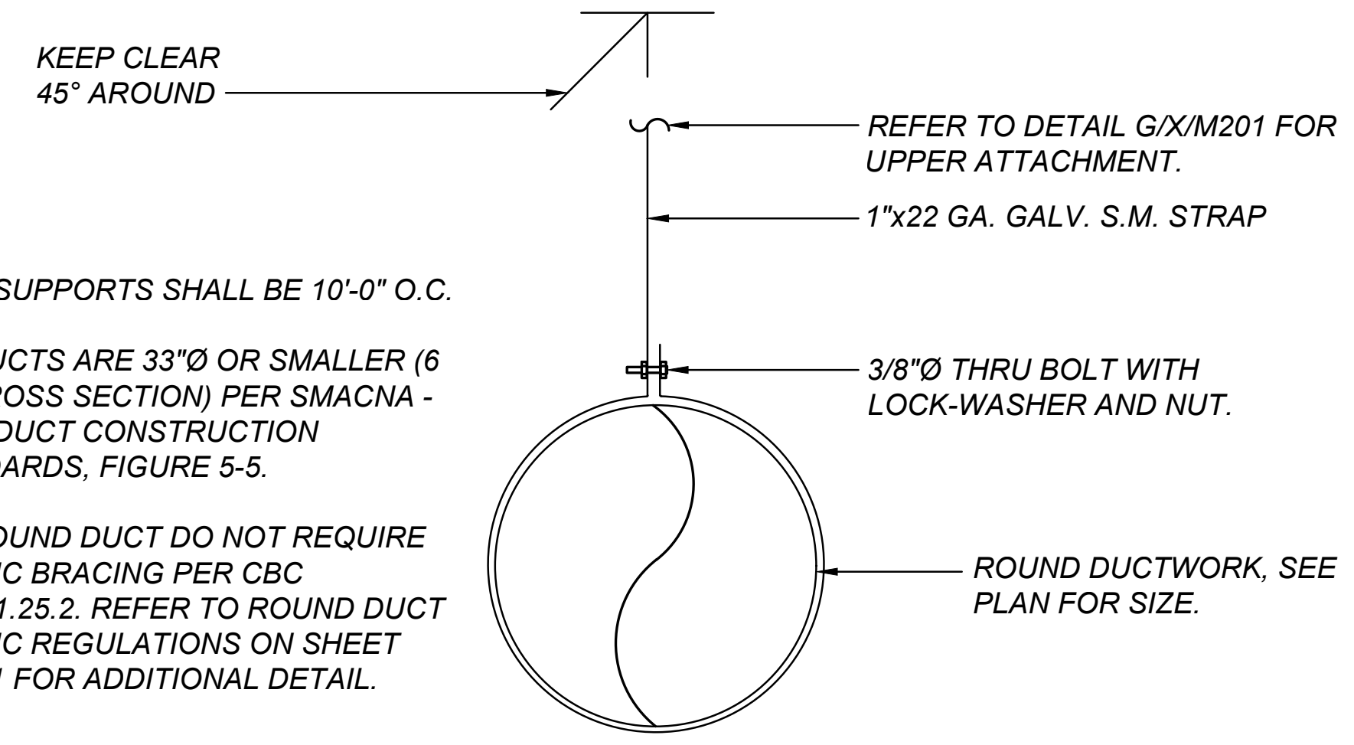
NOTES:
1. DUCT SUPPORTS SHALL BE 10'-0" O.C.
2. ALL RECTANGULAR DUCTS ARE 6 FT^2 OR SMALLER AND WEIGH 20LBS PER LINEAR FT OR LESS. THEREFORE, SEISMIC BRACING IS NOT REQUIRED PER CBC 1617A.1.25.2. REFER TO RECTANGULAR DUCT SEISMIC REGULATIONS ON SHEET X/M101 FOR ADDITIONAL DETAIL.

RECTANGULAR DUCT HANGING DETAIL

SCALE: NONE

MD000

E
X/M201


KEEP CLEAR 45° AROUND
REFER TO DETAIL G/X/M201 FOR UPPER ATTACHMENT.
1"x22 GA. GALV. S.M. STRAP
3/8"Ø THRU BOLT WITH LOCK-WASHER AND NUT.
ROUND DUCTWORK, SEE PLAN FOR SIZE.

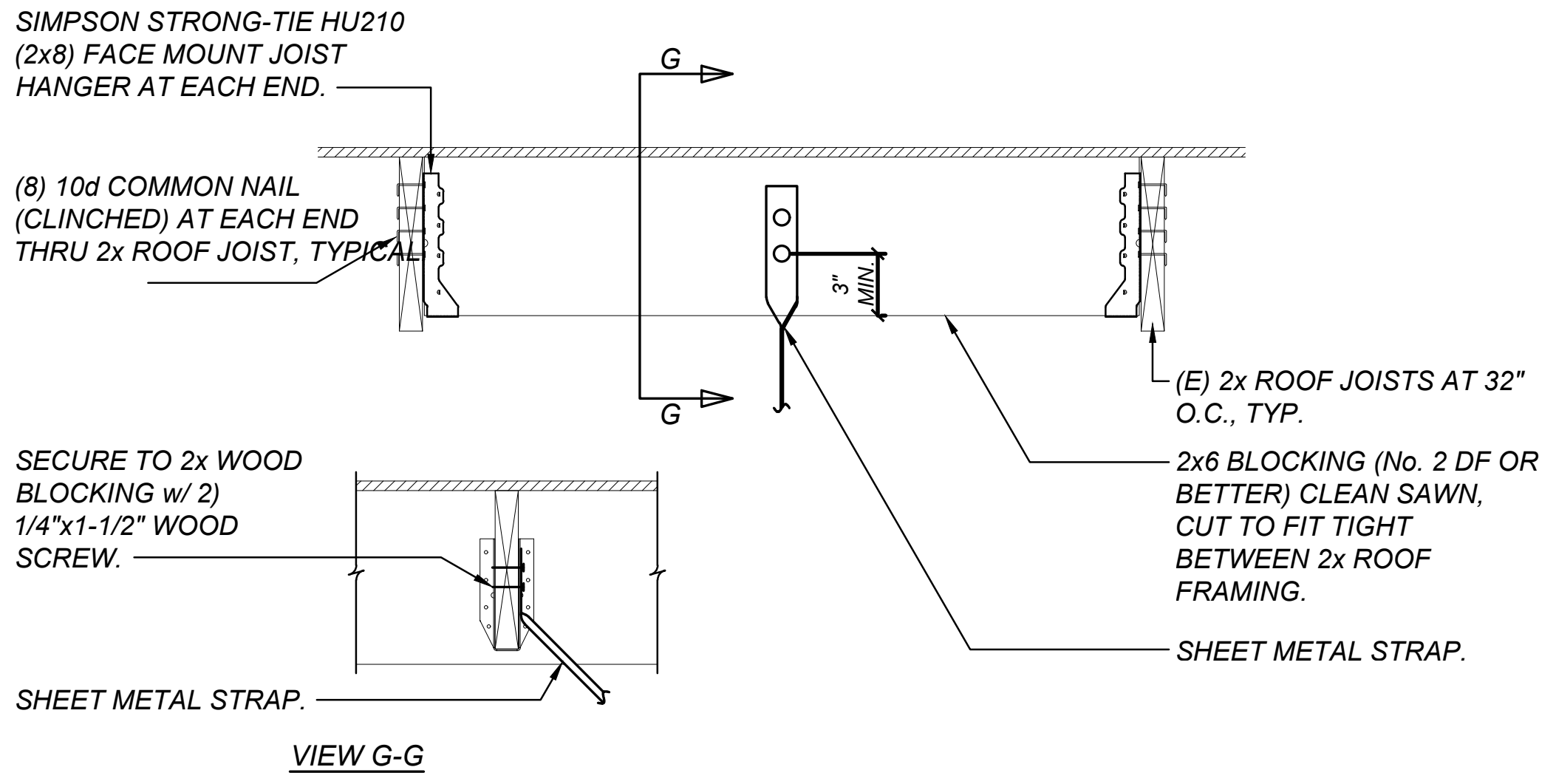
NOTES:
1. DUCT SUPPORTS SHALL BE 10'-0" O.C.
2. ALL DUCTS ARE 33"Ø OR SMALLER (6 FT^2 CROSS SECTION) PER SMACNA - HVAC DUCT CONSTRUCTION STANDARDS, FIGURE 5-5.
3. ALL ROUND DUCT DO NOT REQUIRE SEISMIC BRACING PER CBC 1617A.1.25.2. REFER TO ROUND DUCT SEISMIC REGULATIONS ON SHEET X/M101 FOR ADDITIONAL DETAIL.

ROUND DUCT HANGING DETAIL

SCALE: NONE

MD000

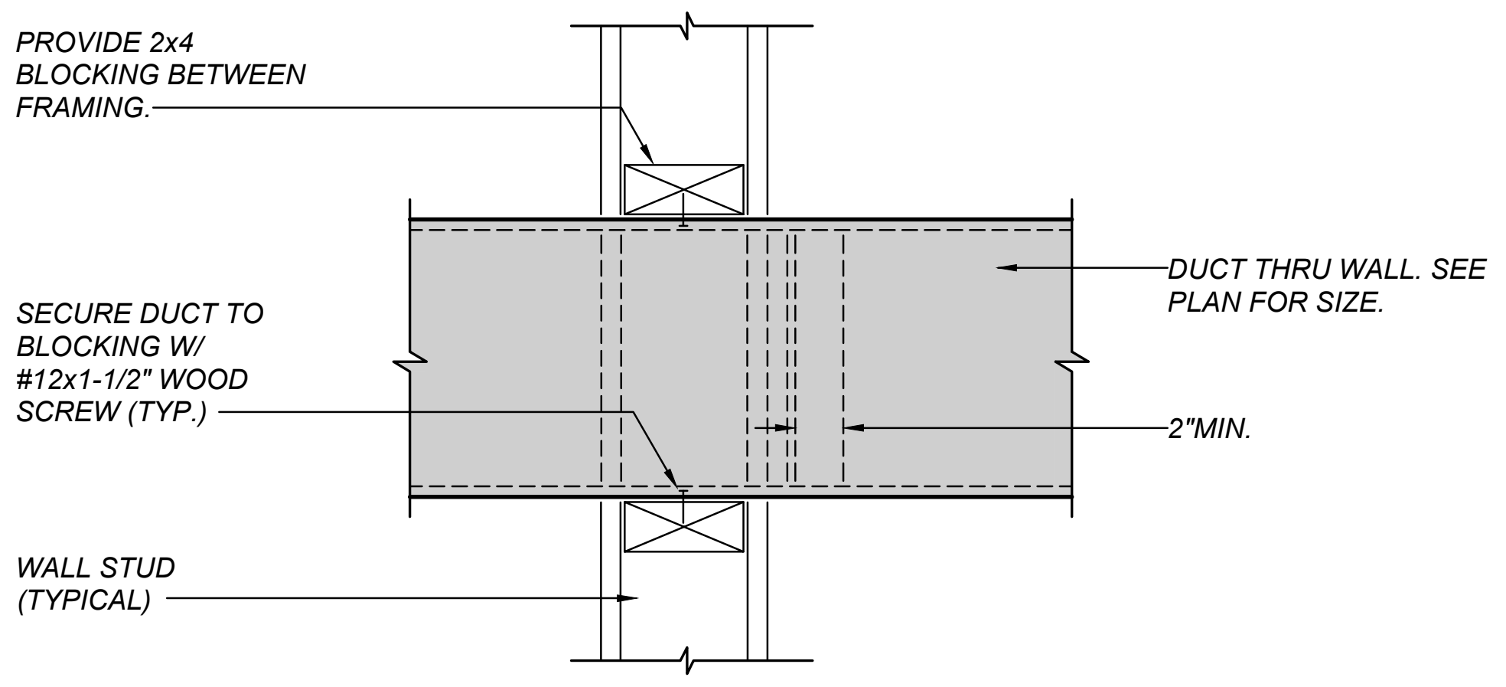
F
X/M201


SIMPSON STRONG-TIE HU210 (2x8) FACE MOUNT JOIST HANGER AT EACH END.
(8) 10d COMMON NAIL (CLINCHED) AT EACH END THRU 2x ROOF JOIST, TYPICAL
G
G
3" MIN.
(E) 2x ROOF JOISTS AT 32" O.C., TYP.
2x6 BLOCKING (No. 2 DF OR BETTER) CLEAN SAWN, CUT TO FIT TIGHT BETWEEN 2x ROOF FRAMING.
SHEET METAL STRAP.
SECURE TO 2x WOOD BLOCKING w/ 2) 1/4"x1-1/2" WOOD SCREW.
SHEET METAL STRAP.
VIEW G-G

UPPER HANGER ATTACHMENT DETAIL

SCALE: NONE

G
X/M201

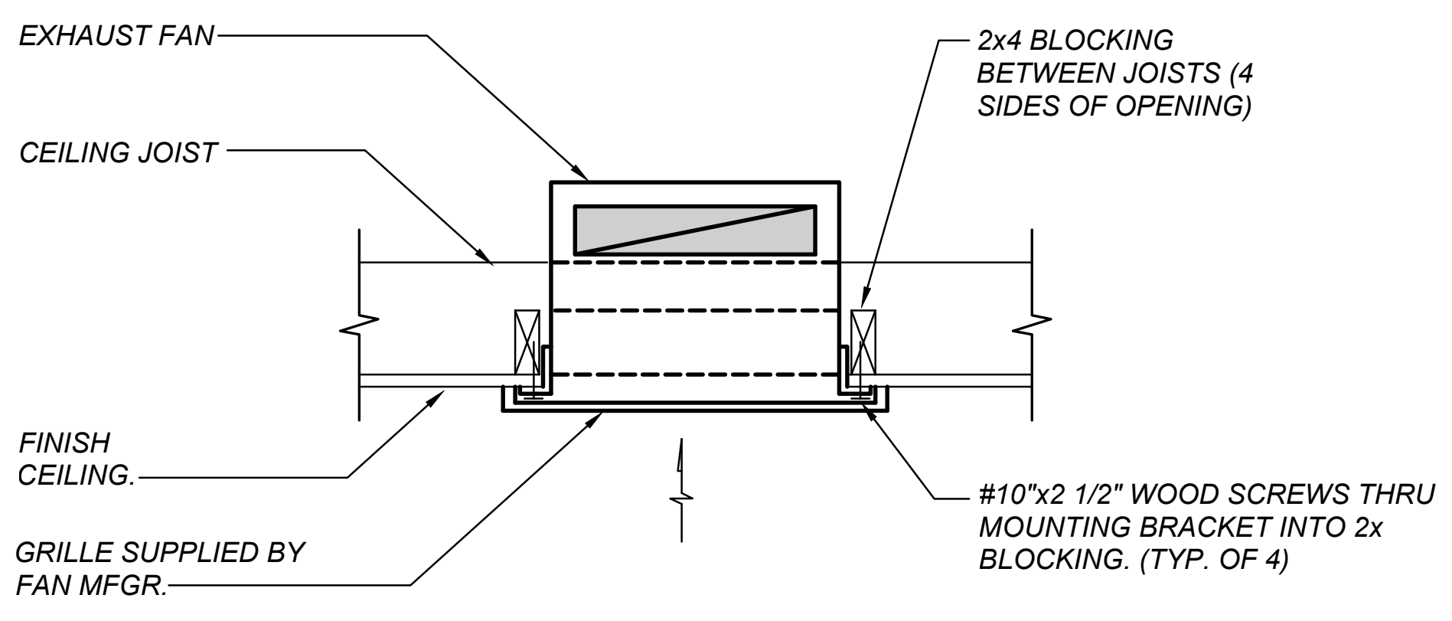

PROVIDE 2x4 BLOCKING BETWEEN FRAMING.
DUCT THRU WALL. SEE PLAN FOR SIZE.
SECURE DUCT TO BLOCKING W/ #12x1-1/2" WOOD SCREW (TYP.)
2"MIN.
WALL STUD (TYPICAL)

DUCT THRU WOOD WALL DETAIL

SCALE: NONE

MD400

H
X/M201

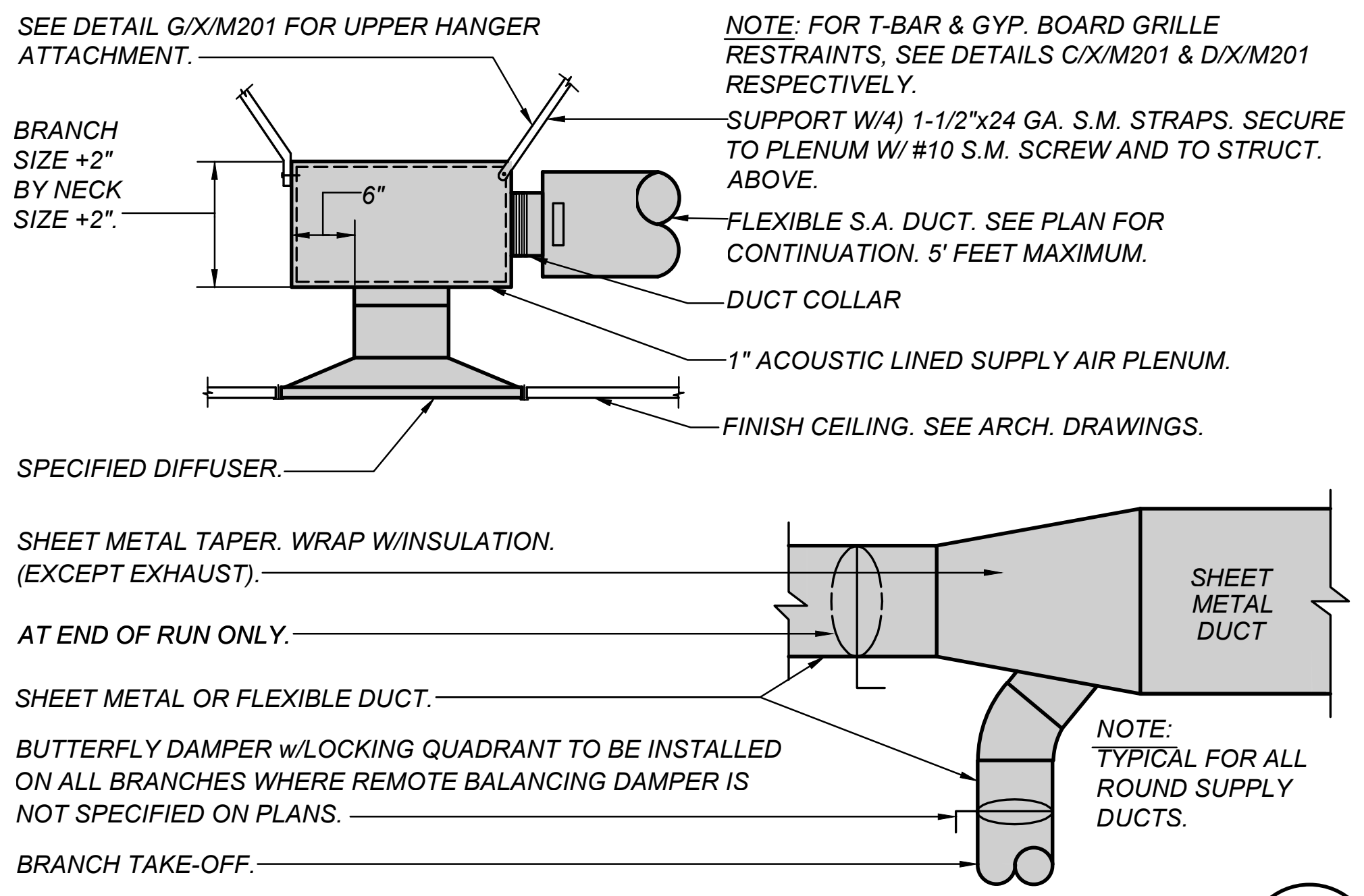

EXHAUST FAN
CEILING JOIST
2x4 BLOCKING BETWEEN JOISTS (4 SIDES OF OPENING)
FINISH CEILING.
GRILLE SUPPLIED BY FAN MFGR.
#10"x2 1/2" WOOD SCREWS THRU MOUNTING BRACKET INTO 2x BLOCKING. (TYP. OF 4)

EF CEILING MOUNTING DETAIL

SCALE: NONE

MM508

J
X/M201


SEE DETAIL G/X/M201 FOR UPPER HANGER ATTACHMENT.
BRANCH SIZE +2" BY NECK SIZE +2".
6"
SUPPORT W/4) 1-1/2"x24 GA. S.M. STRAPS. SECURE TO PLENUM W/ #10 S.M. SCREW AND TO STRUCT. ABOVE.
FLEXIBLE S.A. DUCT. SEE PLAN FOR CONTINUATION. 5' FEET MAXIMUM.
DUCT COLLAR
1" ACOUSTIC LINED SUPPLY AIR PLENUM.
FINISH CEILING. SEE ARCH. DRAWINGS.
SPECIFIED DIFFUSER.
SHEET METAL TAPER. WRAP W/INSULATION. (EXCEPT EXHAUST).
AT END OF RUN ONLY.
SHEET METAL OR FLEXIBLE DUCT.
BUTTERFLY DAMPER w/LOCKING QUADRANT TO BE INSTALLED ON ALL BRANCHES WHERE REMOTE BALANCING DAMPER IS NOT SPECIFIED ON PLANS.
BRANCH TAKE-OFF.
SHEET METAL DUCT

NOTE: FOR T-BAR & GYP. BOARD GRILLE RESTRAINTS, SEE DETAILS C/X/M201 & D/X/M201 RESPECTIVELY.

NOTE:
TYPICAL FOR ALL ROUND SUPPLY DUCTS.

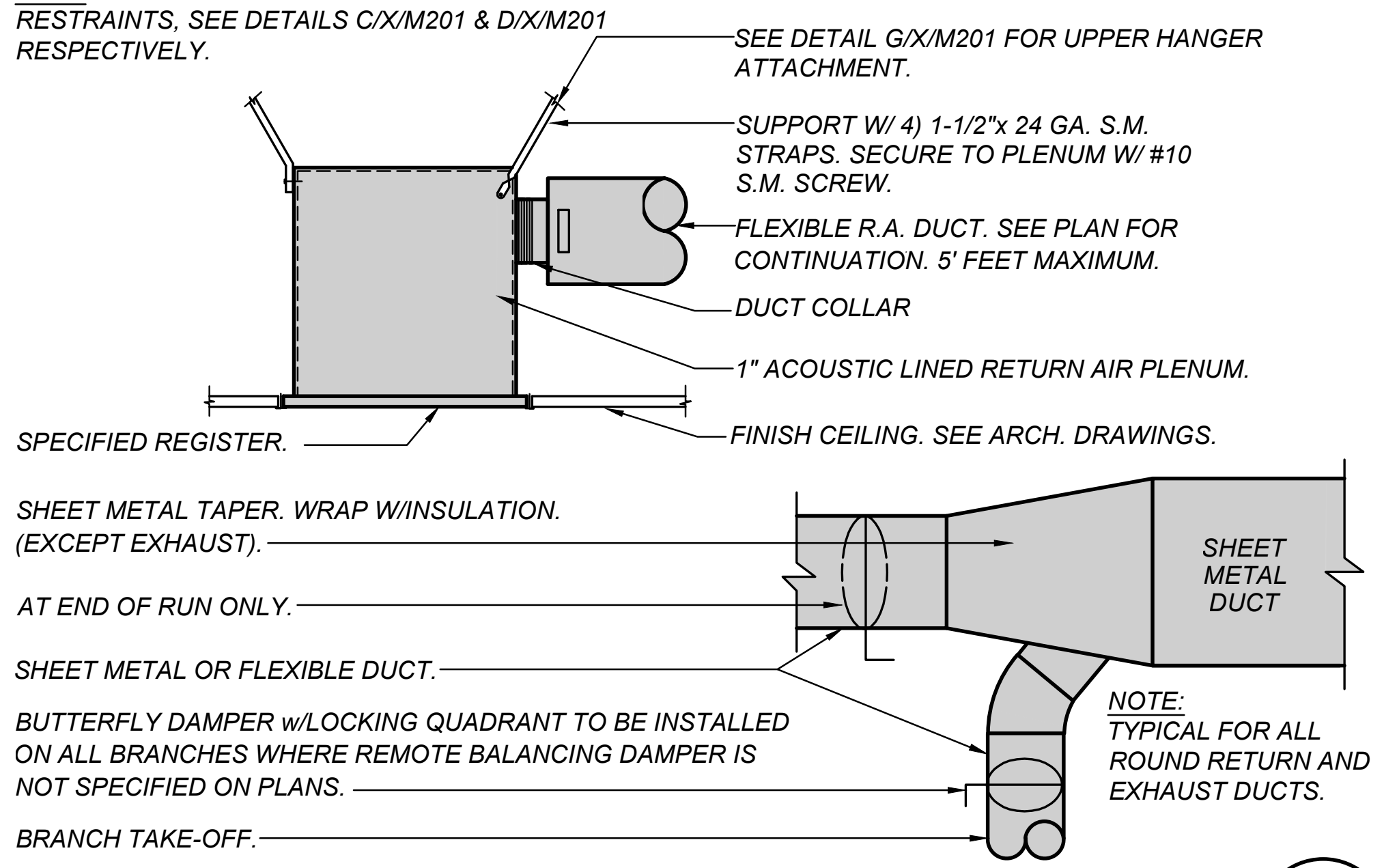
TYPICAL S.A. DEVICE-BRANCH DUCT DETAIL

SCALE: NONE

MD001

A
X/M201

NOTE : FOR T-BAR AND GYP. BOARD GRILLE RESTRAINTS, SEE DETAILS C/X/M201 & D/X/M201 RESPECTIVELY.


SEE DETAIL G/X/M201 FOR UPPER HANGER ATTACHMENT.
SUPPORT W/ 4) 1-1/2"x 24 GA. S.M. STRAPS. SECURE TO PLENUM W/ #10 S.M. SCREW.
FLEXIBLE R.A. DUCT. SEE PLAN FOR CONTINUATION. 5' FEET MAXIMUM.
DUCT COLLAR
1" ACOUSTIC LINED RETURN AIR PLENUM.
SPECIFIED REGISTER.
FINISH CEILING. SEE ARCH. DRAWINGS.
SHEET METAL TAPER. WRAP W/INSULATION. (EXCEPT EXHAUST).
AT END OF RUN ONLY.
SHEET METAL OR FLEXIBLE DUCT.
BUTTERFLY DAMPER w/LOCKING QUADRANT TO BE INSTALLED ON ALL BRANCHES WHERE REMOTE BALANCING DAMPER IS NOT SPECIFIED ON PLANS.
BRANCH TAKE-OFF.
SHEET METAL DUCT

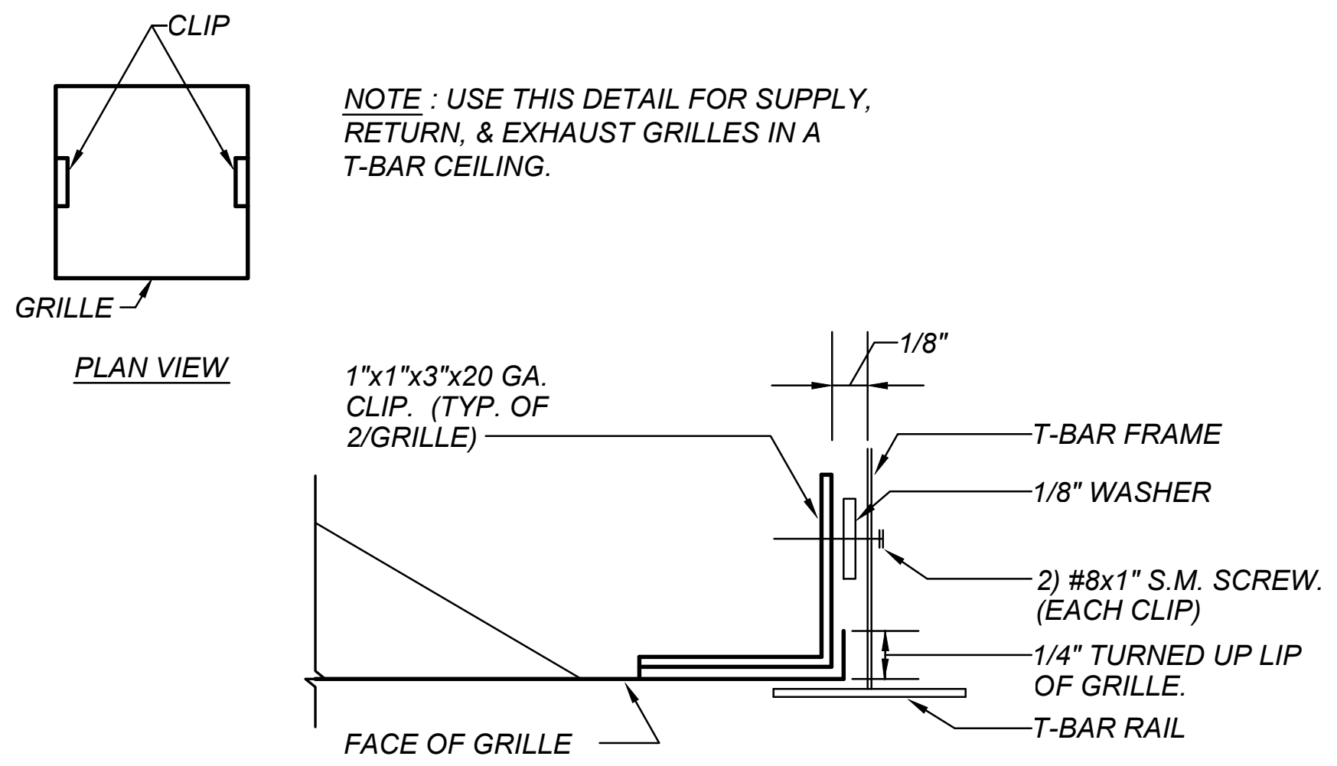
NOTE:
TYPICAL FOR ALL ROUND RETURN AND EXHAUST DUCTS.

TYPICAL R.A. DEVICE-BRANCH DUCT DETAIL

SCALE: NONE

MD009

B
X/M201


CLIP
GRILLE
PLAN VIEW
1/8"
1"x1"x3"x20 GA. CLIP. (TYP. OF 2/GRILLE)
T-BAR FRAME
1/8" WASHER
2) #8x1" S.M. SCREW. (EACH CLIP)
1/4" TURNED UP LIP OF GRILLE.
T-BAR RAIL
FACE OF GRILLE

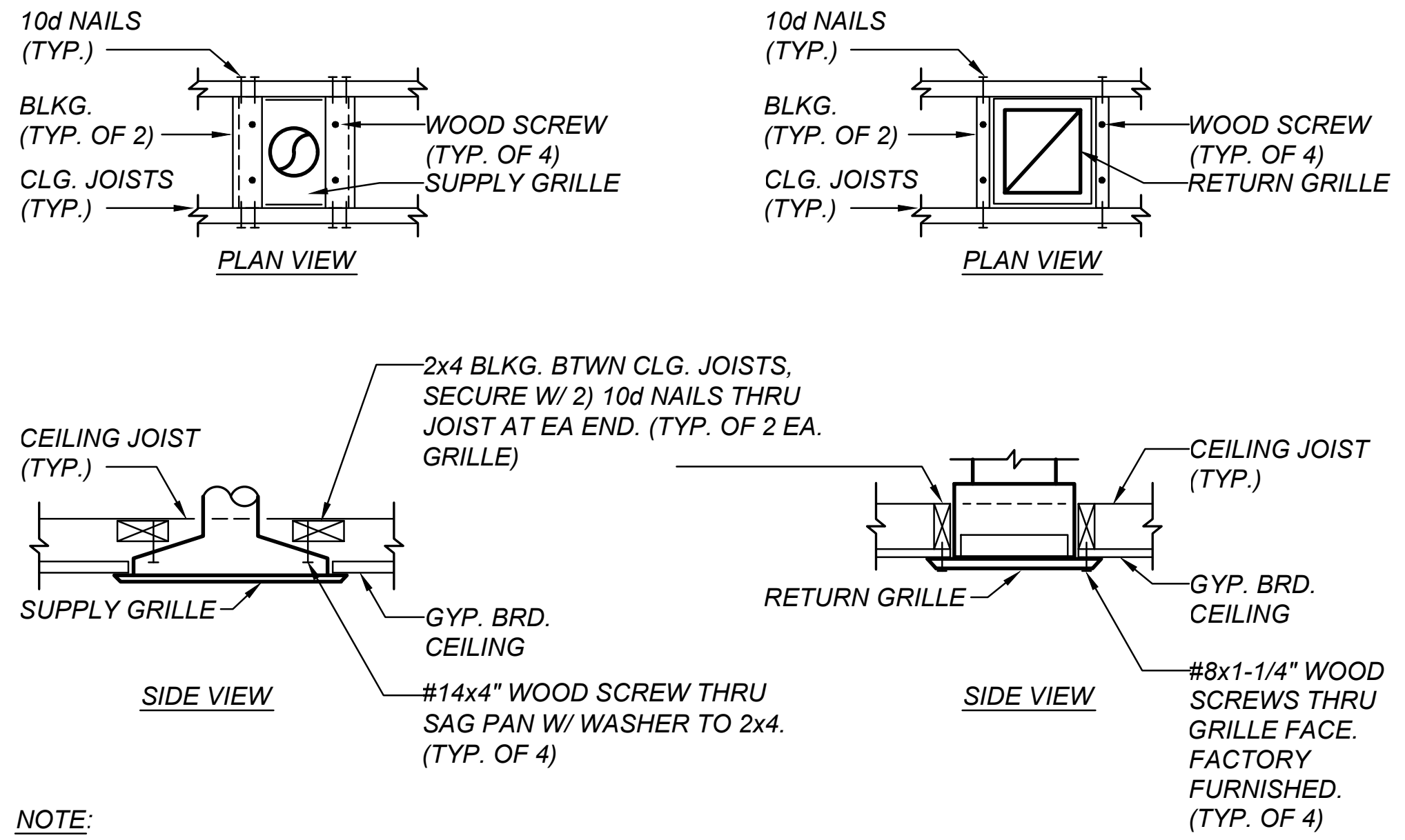
NOTE : USE THIS DETAIL FOR SUPPLY, RETURN, & EXHAUST GRILLES IN A T-BAR CEILING.

GRILLE RESTRAINT DETAIL

SCALE: NONE

MD011

C
X/M201



NOTE:
USE THIS DETAIL FOR SUPPLY, RETURN, & EXHAUST GRILLES IN A GYP. BOARD CEILING.

GRILLE RESTRAINT DETAIL

SCALE: NONE

MD017

D
X/M201

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

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RYAN W. CARLSON
No. M34846
Exp. 6-30-26

Community Day School Modernization
Merced City Unified School District
Merced, CA, 95340
Project

TYPICAL INFORMATION
MECHANICAL DETAILS
Drawing

darden architects
ARCHITECTURE
PLANNING
INTERIORS
www.dardenarchitects.com
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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

	Designed By:	Copyright 2026 Darden Architects
Scale:	Drawn By: LEG	X/M201
Project Number: 2533	Checked By:	
Date: 2/9/26	Reviewed By: RC	

A1	Mechanical Details

6 February 2026 12:21 PM P:\2025\25087 Merced Community Day School Modernization\4-Drawings\4 M\XM201 MECHANICAL DETAILS.dwg dominic

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.

Project Name:	Community Day School Modernization	**Report Page:**	**(Page 1 of 24)**
Project Address:	1730 E Brookdale Dr	**Date Prepared:**	12/1/2025

A. GENERAL INFORMATION

01	Project Location (city)	Merced	04	Total Conditioned Floor Area	4729
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● Classroom ● Office

B. PROJECT SCOPE

This table Includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01		02		03	
Air System(s)		Wet System Components		Dry System Components	
☒	Heating Air System	☐	Water Economizer	☒	Air Economizer
☒	Cooling Air System	☐	Pumps	☐	Electric Resistance Heat
Mechanical Controls		☐	System Piping	☒	Fan Systems
☒	Mechanical Controls (existing to remain, altered or new)	☐	Cooling Towers	☒	Ductwork (existing to remain, altered or new)
		☐	Chillers	☒	Ventilation
		☐	Boilers	☐	Zonal Systems/ Terminal Boxes

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND	Yes	AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)										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 includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
HP - 1	1	Single zone	Alteration		☐
HP - 2	1	Single zone	Alteration		☐
HP - 3	1	Single zone	Alteration		☐
HP - 4	1	Single zone	Alteration		☐

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
HP - 5	1	Single zone	Alteration		☐

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
HP - 1	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Altered per 141.0(b)2E and 180.2(b)2	82.4	32.53	64.8	29.96	31.45	20.72	29.53
HP - 2	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Altered per 141.0(b)2E and 180.2(b)2	88.12	43.1	64.8	41.38	44.79	20.48	30.15
HP - 3	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Altered per 141.0(b)2E and 180.2(b)2	88.12	43.1	64.8	41.37	44.79	20.31	29.94
HP - 4	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Altered per 141.0(b)2E and 180.2(b)2	88.12	43.1	64.8	42.57	44.79	37.38	51.35
HP - 5	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Altered per 141.0(b)2E and 180.2(b)2	82.4	32.53	64.8	28.91	31.45	9.77	19.31

[1] *FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.*

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11

[2] *It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*

[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*

[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
HP - 1	<65,000		HSPF2	6.7	7.2	SEER2	13.4	16.2
HP - 2	<65,000		HSPF2	6.7	7.2	SEER2	13.4	16.2
HP - 3	<65,000		HSPF2	6.7	7.2	SEER2	13.4	16.2
HP - 4	<65,000		HSPF2	6.7	7.2	SEER2	13.4	16.2
HP - 5	<65,000		HSPF2	6.7	7.2	SEER2	13.4	16.2

G. PUMPS

This section does not apply to this project.

H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in 140.4(c), 140.4(e), 140.4(m), 170.2(c)3, and 170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name	HP - 1	Quantity	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,200	Site Elevation	153	Economizer	NA: Altered packaged AC or HP <54 kBtu/h

01	02	03	04	05	06	07	08	09	10	11
						Allowance		Design		
Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Component Allowance	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method	Motor Nameplate Horsepower	Design Electrical Input Power (kW)
SF	Supply	1	Base Allowance for system serving spaces <=6 floors away	100		278		Manufacturer provided		0.32
			MERV 13-16 Filter upstream of thermal conditioning equipment	100		167				
			Hydronic/DX cooling coil or heat pump coil	100		167				
			Economizer Return Damper	100		55				
			Supply Fan System	100		167				
			Supply Fan In-Unit with Adapter Curb	100		167				
Supply Fan Base Allowance (kW)			Exhuast/Return/Relief/Transfer Fan Base Allowance(kW)			Fan System Allowance (kW)[3]		1	Fan System Electrical Output (kW)	0.32

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	HP - 2	Quantity	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,600	Site Elevation	153	Economizer	NA: Altered packaged AC or HP <54 kBtu/h

01	02	03	04	05	06	07	08	09	10	11
						Allowance		Design		
Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Component Allowance	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method	Motor Nameplate Horsepower	Design Electrical Input Power (kW)
SF	Supply	1	Base Allowance for system serving spaces <=6 floors away	100		371		Manufacturer provided		0.41
			MERV 13-16 Filter upstream of thermal conditioning equipment	100		222				
			Hydronic/DX cooling coil or heat pump coil	100		222				
			Economizer Return Damper	100		74				
			Supply Fan System	100		222				
			Supply Fan In-Unit with Adapter Curb	100		222				
Supply Fan Base Allowance (kW)			Exhuast/Return/Relief/Transfer Fan Base Allowance(kW)			Fan System Allowance (kW)[3]		1.11	Fan System Electrical Output (kW)	0.41

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	HP - 3	Quantity	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,600	Site Elevation	153	Economizer	NA: Altered packaged AC or HP <54 kBtu/h

01	02	03	04	05	06	07	08	09	10	11
						Allowance		Design		
Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Component Allowance	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method	Motor Nameplate Horsepower	Design Electrical Input Power (kW)
SF	Supply	1	Base Allowance for system serving spaces <=6 floors away	100		371		Manufacturer provided		0.41
			MERV 13-16 Filter upstream of thermal conditioning equipment	100		222				
			Hydronic/DX cooling coil or heat pump coil	100		222				
			Economizer Return Damper	100		74				
			Supply Fan System	100		222				
			Supply Fan In-Unit with Adapter Curb	100		222				
Supply Fan Base Allowance (kW)			Exhuast/Return/Relief/Transfer Fan Base Allowance(kW)			Fan System Allowance (kW)[3]		1.11	Fan System Electrical Output (kW)	0.41

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	HP - 4	Quantity	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,600	Site Elevation	153	Economizer	NA: Altered packaged AC or HP <54 kBtu/h

01	02	03	04	05	06	07	08	09	10	11
						Allowance		Design		
Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Component Allowance	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method	Motor Nameplate Horsepower	Design Electrical Input Power (kW)
SF	Supply	1	Base Allowance for system serving spaces <=6 floors away	100		371		Manufacturer provided		0.41
			MERV 13-16 Filter upstream of thermal conditioning equipment	100		222				
			Hydronic/DX cooling coil or heat pump coil	100		222				
			Economizer Return Damper	100		74				
			Supply Fan System	100		222				
			Supply Fan In-Unit with Adapter Curb	100		222				
Supply Fan Base Allowance (kW)			Exhuast/Return/Relief/Transfer Fan Base Allowance(kW)			Fan System Allowance (kW)[3]		1.11	Fan System Electrical Output (kW)	0.41

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	HP - 5	Quantity	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,200	Site Elevation	153	Economizer	NA: Altered packaged AC or HP <54 kBtu/h

01	02	03	04	05	06	07	08	09	10	11
						Allowance		Design		
Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Component Allowance	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method	Motor Nameplate Horsepower	Design Electrical Input Power (kW)
SF	Supply	1	Base Allowance for system serving spaces <=6 floors away	100		278		Manufacturer provided		0.32
			MERV 13-16 Filter upstream of thermal conditioning equipment	100		167				
			Hydronic/DX cooling coil or heat pump coil	100		167				
			Economizer Return Damper	100		55				
			Supply Fan System	100		167				
			Supply Fan In-Unit with Adapter Curb	100		167				
Supply Fan Base Allowance (kW)			Exhuast/Return/Relief/Transfer Fan Base Allowance(kW)			Fan System Allowance (kW)[3]		1	Fan System Electrical Output (kW)	0.32

[1] *FOOTNOTES: Fans serving spaces with design background noise goals below NC35*

[2] *Low-turndown single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.*

[3] *Fan system allowance includes fan system base allowance.*

[4] *Filter pressure loss can only be counted once per fan system.*

[5] *Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.*

H. FAN SYSTEMS & AIR ECONOMIZERS

[6] *Computer room economizers must meet requirements of 140.9(a) and will be documented on the NRCC-PRC-E document..*

H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)4O

01	02	03	04	05	06	07	08	09	10	11
Fan System Name	Qty	Hours of Operation per Year	Design Supply Airflow Rate	Outdoor Airflow	% Outdoor Air at Full Design Airflow	Exemptions to Exhaust Air Heat Recovery Requirement per 140.4(q) & 170.2(c)4O	Exhaust Air Heat Recovery 140.4(q) & 170.2(c)4O	Type Of Heat Recovery Rating	Required Recovery Ratio	Energy Recovery Bypass

Fan Energy Index (FEI)

01	02	03
Name or Item Tag	FEI Exception	FEI
HP - 1	None Applies	1
HP - 2	None Applies	1
HP - 3	None Applies	1
HP - 4	None Applies	1
HP - 5	None Applies	1

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft^2)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
HP - 1	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	4 Hour Timer	EMCS	NA: Would increase energy use	Provided
HP - 2	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	4 Hour Timer	EMCS	NA: Would increase energy use	Provided
HP - 3	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	4 Hour Timer	EMCS	NA: Would increase energy use	Provided
HP - 4	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	4 Hour Timer	EMCS	NA: Would increase energy use	Provided
HP - 5	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	4 Hour Timer	EMCS	NA: Would increase energy use	Provided

[1] *FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1 120.2(e)3B 140.4(p) and 140.4(q) for all nonresidential and hotel/motel and d:t24refnolink/]160.2, 160.3(a)3D, 170.2(a)4N, 170.2(a)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces
	☐	
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per 120.1(c)2.

Nonresidential and Hotel/ Motel Multifamily Common Use Ventilation Systems

04		05			06			07	
System Name	HP - 1	System Design OA CFM Airflow[1]		296	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[2] Provided	
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)3[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[6] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Zone 1	Classroom (ages 5-18)	780			296.4	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				296	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP - 2	System Design OA CFM Airflow[1]		299	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[2] Provided	
08	09	10	11	12	13	14	15	16	

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RYAN W. CARLSON
No. M34846
Exp. 6-30-26
MECHANICAL

Community Day School Modernization
Merced City Unified School District
Merced, CA, 95340

Project

TYPICAL INFORMATION
MECHANICAL TITLE 24 DOCUMENTS

Drawing

darden architects
ARCHITECTURE
PLANNING
INTERIORS
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

	Designed By:	
Scale:	Drawn By: LEG	X/M301
Project Number: 2533	Checked By:	
Date: 2/9/26	Reviewed By: RC	

A1 *Mechanical Title 24 Documents*

6 February 2026 12:21 PM P:\2025\25087 Merced Community Day School Modernization\4-Drawings\4 M\XM301-303 MECHANICAL TITLE 24 DOCUMENTS.dwg dominic

J. VENTILATION AND INDOOR AIR QUALITY

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)3^3 & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3^6 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type^4	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people^5	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Zone 2	Classroom (ages 5-18)	786			298.7	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				299	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP - 3	System Design OA CFM Airflow^1		296	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21^2	
								Provided	
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)3^3 & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3^6 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type^4	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people^5	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Zone 3	Classroom (ages 5-18)	780			296.4	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				296	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP - 4	System Design OA CFM Airflow^1		523	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21^2	
								Provided	
08	09	10	11	12	13	14	15	16	

J. VENTILATION AND INDOOR AIR QUALITY

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)3^3 & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3^6 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type^4	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people^5	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Zone 4	Classroom (ages 5-18)	1377	4		523.3	280	350	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				523	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP - 5	System Design OA CFM Airflow^1		151	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21^2	
								Provided	
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)3^3 & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3^6 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type^4	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people^5	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Zone 5	Office space	1006	2		150.9	140	150	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				151	18	Ventilation for this System Complies?		Yes

---

[1] *FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system*

[2] *Air filtration requirements apply to the following three system types per 120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.*

[3] *Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.*

J. VENTILATION AND INDOOR AIR QUALITY

[4] *See Standards Tables 120.1-A and 120.1-B.*

[5] *For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.*

[6] *120.2(e)3 requires systems serving rooms that are required by 130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft^2 or smaller, multipurpose rooms less than 1,000 ft^2, classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by 130.1(c).*

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This table is used to show compliance with mandatory pipe insulation requirements found in 120.3 and mandatory requirements found in 120.4(g) for duct sealing.

01	☐	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed.

Duct Leakage Testing

The answers to the questions below apply to the following duct systems:	HP - 1	**NR/ Common Use:** Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No

L. DISTRIBUTION (DUCTWORK and PIPING)

		Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	No
		Duct leakage testing per CMC Section 603.10.1 required for these systems?	Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17		All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A	
18		All ductwork is an extension of an existing duct system	
19		Ductwork serving individual dwelling unit	
20		< 25 ft of new or replacement space conditioning ducts installed	
21	R-8	Duct Insulation R-value	
22			
23			
The answers to the questions below apply to the following duct systems:	HP - 2	**NR/ Common Use:** Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No

L. DISTRIBUTION (DUCTWORK and PIPING)

		Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	No
		Duct leakage testing per CMC Section 603.10.1 required for these systems?	Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17		All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A	
18		All ductwork is an extension of an existing duct system	
19		Ductwork serving individual dwelling unit	
20		< 25 ft of new or replacement space conditioning ducts installed	
21	R-8	Duct Insulation R-value	
22			
23			
The answers to the questions below apply to the following duct systems:	HP - 3	**NR/ Common Use:** Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No

L. DISTRIBUTION (DUCTWORK and PIPING)

		Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	No
		Duct leakage testing per CMC Section 603.10.1 required for these systems?	Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17		All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A	
18		All ductwork is an extension of an existing duct system	
19		Ductwork serving individual dwelling unit	
20		< 25 ft of new or replacement space conditioning ducts installed	
21	R-8	Duct Insulation R-value	
22			
23			
The answers to the questions below apply to the following duct systems:	HP - 4	**NR/ Common Use:** Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No

L. DISTRIBUTION (DUCTWORK and PIPING)

		Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	No
		Duct leakage testing per CMC Section 603.10.1 required for these systems?	Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17		All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A	
18		All ductwork is an extension of an existing duct system	
19		Ductwork serving individual dwelling unit	
20		< 25 ft of new or replacement space conditioning ducts installed	
21	R-8	Duct Insulation R-value	
22			
23			
The answers to the questions below apply to the following duct systems:	HP - 5	**NR/ Common Use:** Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No

L. DISTRIBUTION (DUCTWORK and PIPING)

		Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	No
		Duct leakage testing per CMC Section 603.10.1 required for these systems?	Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17		All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A	
18		All ductwork is an extension of an existing duct system	
19		Ductwork serving individual dwelling unit	
20		< 25 ft of new or replacement space conditioning ducts installed	
21	R-8	Duct Insulation R-value	
22			
23			

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why 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
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why 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/NRCA/

Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	HP-5: TRANE - DHK036A3S0L; HP-2: TRANE - DHK048A3S0L; HP-3: TRANE - DHK048A3S0L; HP-4: TRANE - DHK048A3S0L; HP-5: TRANE - DHK036A3S0L;
NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes'. If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".	HP-5: TRANE - DHK036A3S0L; HP-2: TRANE - DHK048A3S0L; HP-3: TRANE - DHK048A3S0L; HP-4: TRANE - DHK048A3S0L; HP-5: TRANE - DHK036A3S0L;
NRCA-MCH-05-A - Air Economizer Controls	HP-5: TRANE - DHK036A3S0L; HP-2: TRANE - DHK048A3S0L; HP-3: TRANE - DHK048A3S0L; HP-4: TRANE - DHK048A3S0L; HP-5: TRANE - DHK036A3S0L;
NRCA-MCH-11-A Automatic Demand Shed Controls	HP-5: TRANE - DHK036A3S0L; HP-2: TRANE - DHK048A3S0L; HP-3: TRANE - DHK048A3S0L; HP-4: TRANE - DHK048A3S0L; HP-5: TRANE - DHK036A3S0L;
NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	HP-2: TRANE - DHK048A3S0L; HP-3: TRANE - DHK048A3S0L; HP-4: TRANE - DHK048A3S0L;

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

NRCA-MCH-16-A Supply Air Temperature Reset Controls	HP-5: TRANE - DHK036A3S0L; HP-2: TRANE - DHK048A3S0L; HP-3: TRANE - DHK048A3S0L; HP-4: TRANE - DHK048A3S0L; HP-5: TRANE - DHK036A3S0L;
NRCA-MCH-18-A Energy Management Control Systems	HP-5: TRANE - DHK036A3S0L; HP-2: TRANE - DHK048A3S0L; HP-3: TRANE - DHK048A3S0L; HP-4: TRANE - DHK048A3S0L; HP-5: TRANE - DHK036A3S0L;

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	Yes	Plan sheet or construction document location
		M-Sheets

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Gary West	Documentation Author Signature: Gary West
Company: Lawrence Engineering Group	Signature Date: 2025-12-01
Address: 4910 E Clinton Way, Suite 101	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Fresno CA 93727	Phone: 5594310101

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: Ryan W. Carlson	Responsible Designer Signature:
Company: Lawrence Engineering Group	Date Signed: 2025-12-01
Address: 4910 E. Clinton Way, Suite 101	License: M34846
City/State/Zip: Fresno CA 93727	Phone: (559) 431-0101

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

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Ryan W. Carlson
No. M34846
Exp. 6-30-26

Community Day School Modernization
Merced City Unified School District
Merced, CA, 95340
Project

TYPICAL INFORMATION
MECHANICAL TITLE 24 DOCUMENTS
Drawing

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Grant E. Dodson
No. C-20,307
Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

Designed By:

Scale:
Drawn By: LEG
Project Number: 2533
Checked By:
Date: 2/9/26
Reviewed By: RC

X/M302

A1
Mechanical Title 24 Documents

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STATE OF CALIFORNIA

Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-PLB-E**
Project Name:	Community Day School Modernization	**Report Page:**	**(Page 3 of 8)**
		Date Prepared:	12/1/2025

F. DOMESTIC HOT WATER EQUIPMENT

This table is used to demonstrate compliance with mandatory equipment requirements in 110.1 and 110.3. Compliance with prescriptive requirements in 140.5(c) / 170.2(d) must also be demonstrated and with 141.0 / 180.1/ 180.2 for addition and alteration scopes.

Equipment Schedule: Water Heating Efficiency and Standby Loss

03		04			05		06		
System Name	A O Smith DEL-10	Exception to 140.5(c)/ 170.2(d)3			☐	Gas Service Water Heating System >= 1MMBtu/h^1	Capacity-weighted Average Efficiency %		
07	08	09	10		11	12	13	14	15
Name or Item Tag	Equipment Type	Volume (gal)	Rated Input Capacity (Btu/h)	Max GPM/ First Hour Rating (FHR)	Rated Efficiency	Minimum Efficiency Required	Efficiency Unit	Designed Standby Loss	Maximum Standby Loss
A O Smith DEL-10	Consumer Rated Electric Storage	10	13,650	0 <= FHR <18	0.92	0.93	UEF		
03		04			05		06		
System Name	IWH-1 - CHRONOMITE #SR-30L	Exception to 140.5(c)/ 170.2(d)3			☐	Gas Service Water Heating System >= 1MMBtu/h^1	Capacity-weighted Average Efficiency %		
07	08	09	10		11	12	13	14	15
Name or Item Tag	Equipment Type	Volume (gal)	Rated Input Capacity (Btu/h)	Max GPM/ First Hour Rating (FHR)	Rated Efficiency	Minimum Efficiency Required	Efficiency Unit	Designed Standby Loss	Maximum Standby Loss
IWH-1 - CHRONOMITE #SR-30L	Consumer Rated Electric Instantaneous (<=12kW)	0	12,285	FHR >=75	0.92	0.91	UEF		

[1] FOOTNOTE: In systems >= 1MMBtu/h with multiple units, gas water heaters with input capacity > 100,000 Btu/h may meet 90% Et requirements via an input capacity-weighted average.

STATE OF CALIFORNIA

Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-PLB-E**
Project Name:	Community Day School Modernization	**Report Page:**	**(Page 6 of 8)**
		Date Prepared:	12/1/2025

H. DOMESTIC HOT WATER CONTROLS

This table is used to demonstrate compliance with control requirements in 110.3 for all occupancies. For multifamily residential and hotel/motel occupancies, compliance is also demonstrated with requirements in 160.4(e) / 170.2(d).

	Yes	No	Not Applicable	Requirement
01	☒	☐	☐	Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per 110.3(a).
02	☐	☐	☒	Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per 110.3(c)1 unless covered by California Plumbing Code 613.0.
03	☐	☐	☒	Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §110.3(c)2 unless systems serves healthcare facility.
04	☐	☐	☒	For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(d) or 180.1(b)3 for additions.
05	☐	☐	☒	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per 170.2(d).
06	☐	☐	☒	Combustion air positive shut-off shall be provided per 160.4(3).on all newly installed commercial boilers as follows: • Boilers with input capacity >= 2.5 MMBtu/h, in which the boiler is designed to operate with a nonpositive vent static pressure • Boilers where one stack serves two or more boilers with a total combined input capacity per stack of 2.5 MMBtu/h.
07	☐	☐	☒	Boiler combustion air fans with motor >= 10 hp shall meet one of the following • The fan motor shall be driven by a variable speed drive OR • The fan motor shall include controls that limit the fan motor demand to <=30% of the total design wattage at 50% of the design air volume.
08	☐	☐	☒	Newly installed boilers with an input capacity {d:gte/] 5MMBtu/h and a steady state full-load combustion efficiency < 90% shall maintain excess (stack-gas) oxygen concentrations <= 5% by volume on a dry basis over firing rates of 20-100%. Combustion air volume shall be controlled with respect to firing rate or flue gas oxygen concentration. Use of a common gas and combustion air control linkage or jack shaft is prohibited.

STATE OF CALIFORNIA

Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-PLB-E**
Project Name:	Community Day School Modernization	**Report Page:**	**(Page 2 of 8)**
		Date Prepared:	12/1/2025

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA

Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-PLB-E**
Project Name:	Community Day School Modernization	**Report Page:**	**(Page 5 of 8)**
		Date Prepared:	12/1/2025

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in 120.3 and 140.5. For multifamily and hotel/motel occupancies, compliance is demonstrated with requirements 110.3(c), 160.4, 170.2(d).

Mandatory Pipe Insulation All Occupancies

13	☐	For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table 160.4-A (see blow) except: • Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall abut securely against all framing members • Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the requirements are met for compliance with Quality Insulation Installation (QII) as specified in the Reference Residential Appendix RA3.5. • Piping surrounded with a minimum of 1 inch of wall insulation, 2 inches of crawlspace insulation, or 4 inches of attic insulation, shall not be required to have pipe insulation.
14	☒	For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per 120.3: • Recirculating system piping, including supply and return piping of the water heater • The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system • Pipes that are externally heated
15	☒	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per 120.3(b) / 160.4(f). Pipe insulation buried below grade must be installed in a water proof and non-crushable casing or sleeve.

TABLE 120.3-A / 160.4-A PIPE INSULATION THICKNESS

Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hour per ft^2 per °F)	Insulation Mean Rating Temp (°F)	Nominal Pipe Diameter (in)			
			< 1	1 to < 1.5	1.5 to < 4	1.5 to < 4 Multifamily & Hotel/Motel
			Minimum Insulation Required			
105-140	0.22 - 0.28	100	1.0 in or R-7.7	1.5 in or R-12.5	1.5 in or R-11	2.0 in or R-16

STATE OF CALIFORNIA

Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-PLB-E**
Project Name:	Community Day School Modernization	**Report Page:**	**(Page 8 of 8)**
Project Address:	1730 E Brookdale Dr	**Date Prepared:**	12/1/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Gary West	Documentation Author Signature: Gary West
Company: Lawrence Engineering Group	Signature Date: 2025-12-01
Address: 4910 E Clinton Way, Suite 101	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Fresno CA 93727	Phone: 5594310101

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: Ryan W. Carlson	Responsible Designer Signature:
Company: Lawrence Engineering Group	Date Signed: 2025-12-01
Address: 4910 E. Clinton Way, Suite 101	License: M34846
City/State/Zip: Fresno CA 93727	Phone: (559) 431-0101

STATE OF CALIFORNIA

Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-PLB-E**

This document is used to demonstrate compliance for nonresidential occupancies with requirements in 110.1, 110.3, 120.3, and 140.5, and with requirements in 141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in 110.1, 110.3, 160.4 and 170.2(d), and with requirements 180.1 for additions and 180.2 for alterations.

Project Name:	Community Day School Modernization	**Report Page:**	**(Page 1 of 8)**
Project Address:	1730 E Brookdale Dr	**Date Prepared:**	12/1/2025

A. GENERAL INFORMATION

01	Project Location (city)	Merced	02	Climate Zone	12
03	Occupancy Types Within Project (select all that apply):				

● Classroom ● Office

B. PROJECT SCOPE

This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in 140./ 170.2(d) and 141.0(a)/ 180.1, or 141.0(b)2N / 180.2 for additions or alterations. Solar water heating systems are documented on the NRCC-SAB compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.

01	02	03		
My project consists of (check all that apply):	System Type^{1,2}	System Components		
☒ New system (DHW system being installed for the first time)	Individual System (serving nonresidential spaces)	☒ Equipment	☒ Distribution	☒ Controls
☒ New system (DHW system being installed for the first time)	Individual System (serving nonresidential spaces)	☒ Equipment	☒ Distribution	☒ Controls
☐ System Alteration (equipment, distribution or controls)		☐ Equipment	☐ Distribution	☐ Controls

[1] FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.

[2] Dwelling units refers to hotel/motel guest rooms and units in a multifamily residential occupancy.

[3] DHW systems serving 2 or more dwelling units are considered "Central Systems" for multifamily occupancies

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. or the table indicated as not compliant for guidance.

01	02	03	04
Domestic Hot Water Equipment	Distribution Systems	Controls	**Compliance Results**
Table F	Table G	Table H	
Yes	Yes	Yes	COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

STATE OF CALIFORNIA

Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-PLB-E**
Project Name:	Community Day School Modernization	**Report Page:**	**(Page 4 of 8)**
		Date Prepared:	12/1/2025

F. DOMESTIC HOT WATER EQUIPMENT

Water Heating Equipment All Occupancies

	Yes	No	Not Applicable	Requirement
18	☐	☐	☒	Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-3.5. Label required per 110.3(c)3
19	☐	☐	☒	New state buildings 60% of energy for service water heating from site solar energy or recovered energy per 110.3(c)5
20	☒	☐	☐	Isolation valves for instantaneous water heater with input rating >6.8 kBTUH or 2 kW has been specified per 110.3(c)6
21	☐	☐	☒	School buildings < 25,000 ft^2 and < 4 stories must install a heat pump water heating system per 140.5(a)1. Water heating systems serving an individual bathroom space may be an instantaneous electric water heater.

STATE OF CALIFORNIA

Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-PLB-E**
Project Name:	Community Day School Modernization	**Report Page:**	**(Page 7 of 8)**
		Date Prepared:	12/1/2025

I. 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

Form/Title
NRCI-PLB-E - Must be submitted for all buildings

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no forms required for this project.

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

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RYAN W. CARLSON
No. M34846
Exp. 6-30-26

Community Day School Modernization
Merced City Unified School District
Merced, CA, 95340

Project

TYPICAL INFORMATION
MECHANICAL TITLE 24 DOCUMENTS

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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

	Designed By:	
Scale:	Drawn By: LEG	X/M303
Project Number: 2533	Checked By:	
Date: 2/9/26	Reviewed By: RC	

A1 *Mechanical Title 24 Documents*

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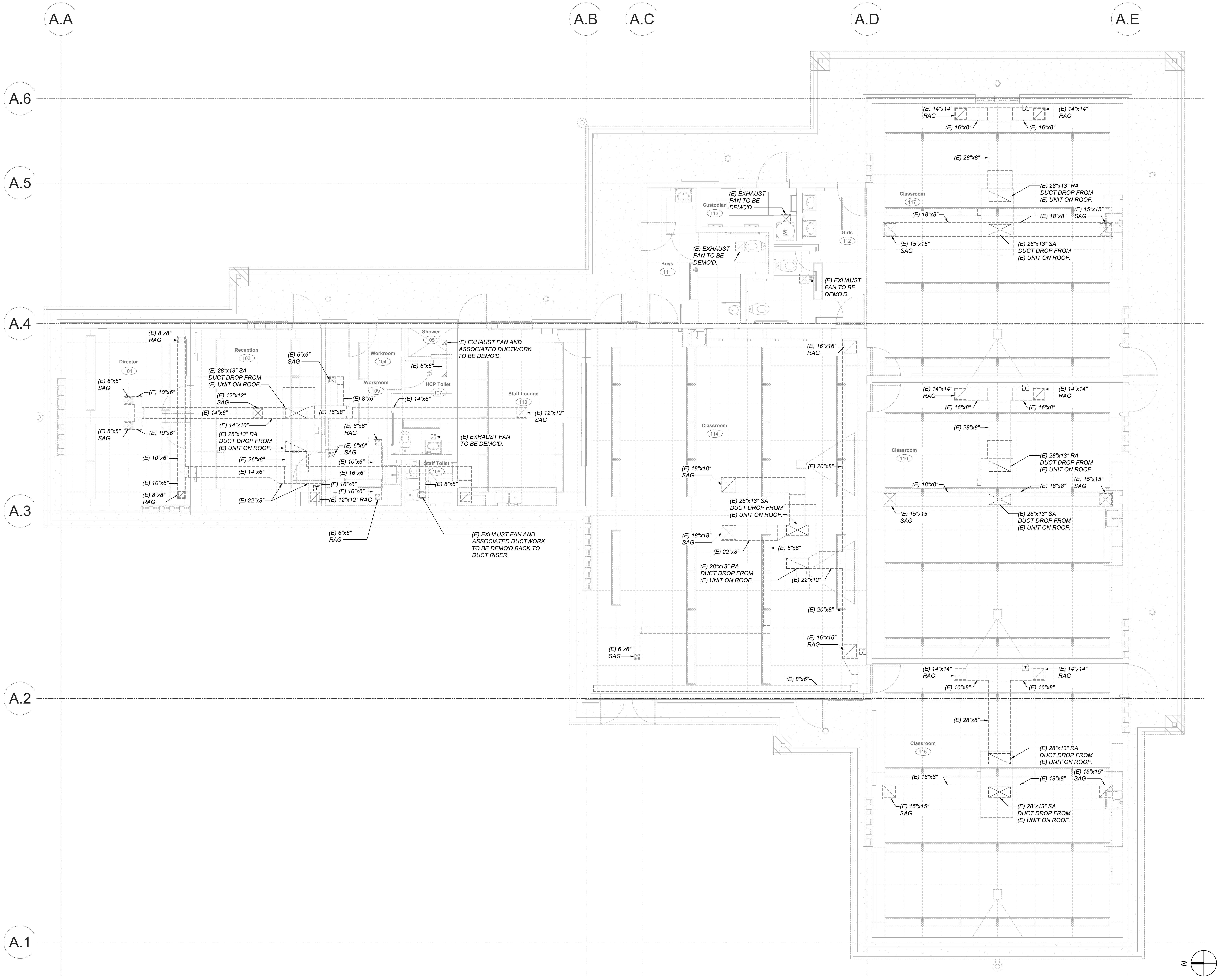
DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval



A1 Mechanical Demolition Plan
1/4" = 1'-0"

SHEET NOTES:

1. *MECHANICAL CONTRACTOR TO FIELD VERIFY SIZE, & LOCATION OF ALL EXISTING DUCTWORK & REGISTERS/ GRILLES PRIOR TO ANY DEMOLITION AND REPORT ANY DISCREPANCIES TO THE M.E.O.R.*
2. *ALL EXISTING DUCTWORK TO BE DEMO'D BACK TO SA & RA DROPS FROM HVAC UNITS ON ROOF.*
3. *ALL COMPONENTS OF EXISTING EMS SYSTEM TO BE SALVAGED AND PRESERVED FOR REINSTALLATION WITH NEW HVAC SYSTEM.*

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Merced City Unified School District
Merced, CA, 95340
Project

BUILDING A
MECHANICAL DEMOLITION PLAN
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GRANT E. DODSON
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Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

	Designed By: GW	
Scale: 1/4" = 1'-0"	Drawn By: LEG	*A/M101*
Project Number: 2533	Checked By: GW	
Date: 2/9/26	Reviewed By: RC	

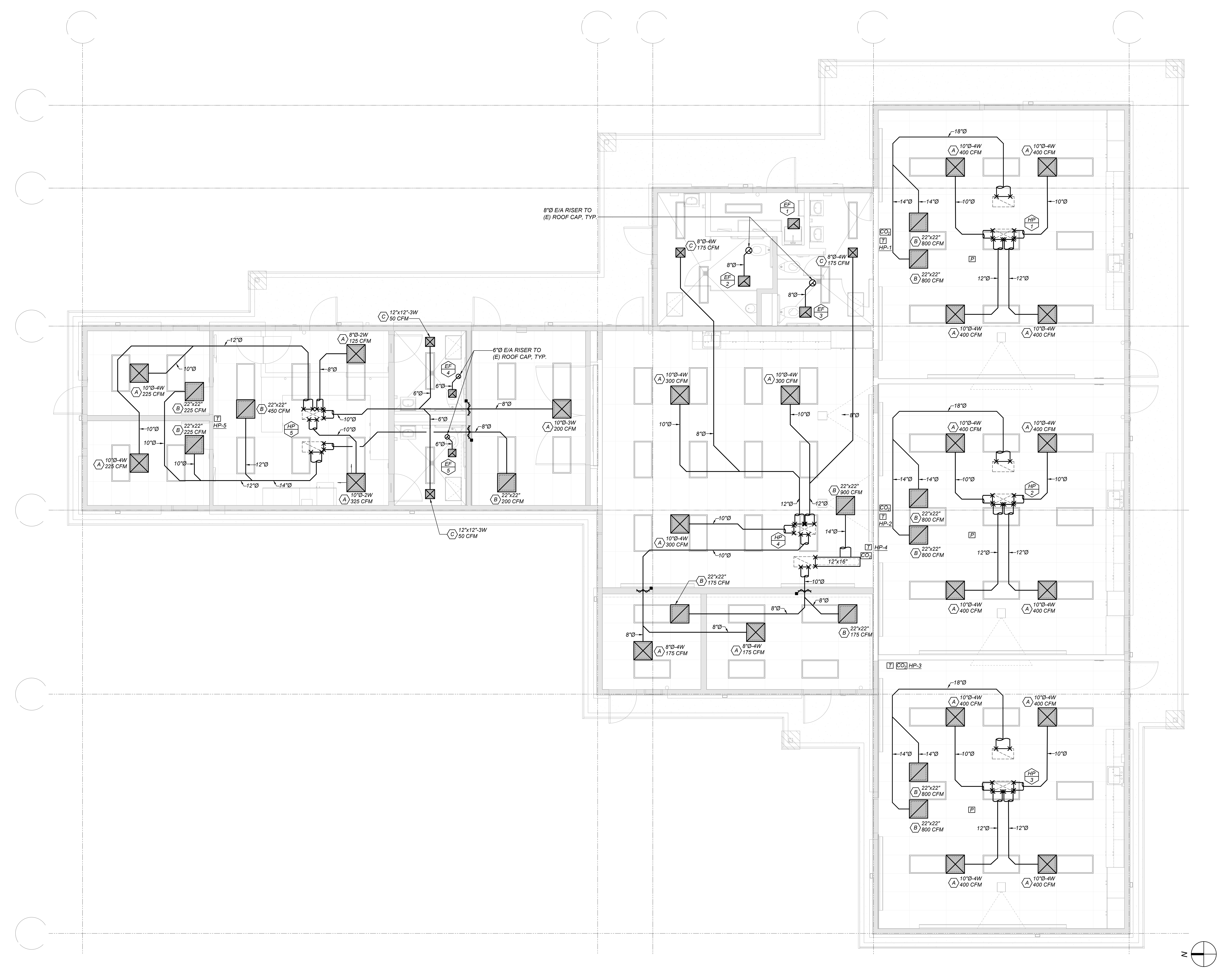
DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

SHEET NOTES:

1. REFER TO DETAIL A/X/M201 FOR SUPPLY AIR DEVICES, (TYP).
2. REFER TO DETAIL B/X/M201 FOR RETURN/EXHAUST DEVICES, (TYP).
3. REFER TO DETAIL C/X/M201 FOR LAY-IN CEILING REGISTERS, (TYP).
4. REFER TO DETAIL D/X/M201 FOR HARD LID CEILING REGISTERS, (TYP).
5. REFER TO DETAIL H/X/M201 FOR DUCT PENETRATION THROUGH WALLS, (TYP).
6. REFER TO DETAILS E/X/M201 & F/X/M201 FOR ROUND AND RECTANGULAR DUCT SUPPORT & HANGING, (TYP).
7. REFER TO DETAIL J/X/M201 FOR CEILING EXHAUST FAN MOUNTING, (TYP).
8. EXISTING EMS CONTROLS AND COMPONENTS TO BE REINSTALLED ON NEW HVAC SYSTEM PER DISTRICT STANDARDS.
9. FOR FIRE DAMPERS AT WALL, SEE DETAIL M/X/M201.



A1
Mechanical Plan
1/4" = 1'-0"

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Architect

No.	Revision/Submission	Date

Revision

Designed By: GW
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Scale: 1/4" = 1'-0"
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Project Number: 2533
Checked By: GW
Date: 2/9/26
Reviewed By: RC

A/M102

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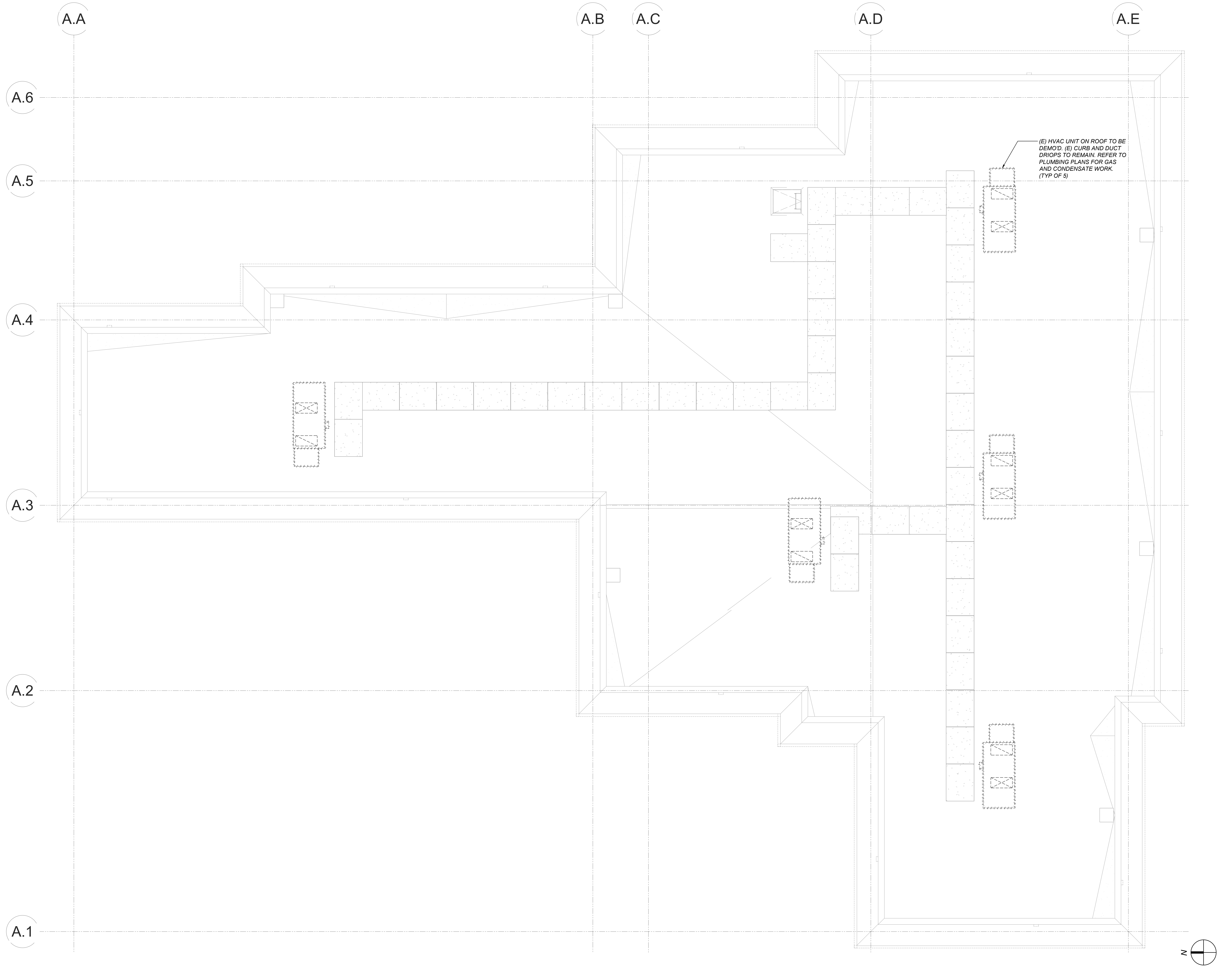

(E) HVAC UNIT ON ROOF TO BE DEMO'D. (E) CURB AND DUCT DRIOPS TO REMAIN. REFER TO PLUMBING PLANS FOR GAS AND CONDENSATE WORK. (TYP OF 5)

A1 Mechanical Demolition Roof Plan
1/4" = 1'-0"

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

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Community Day School Modernization
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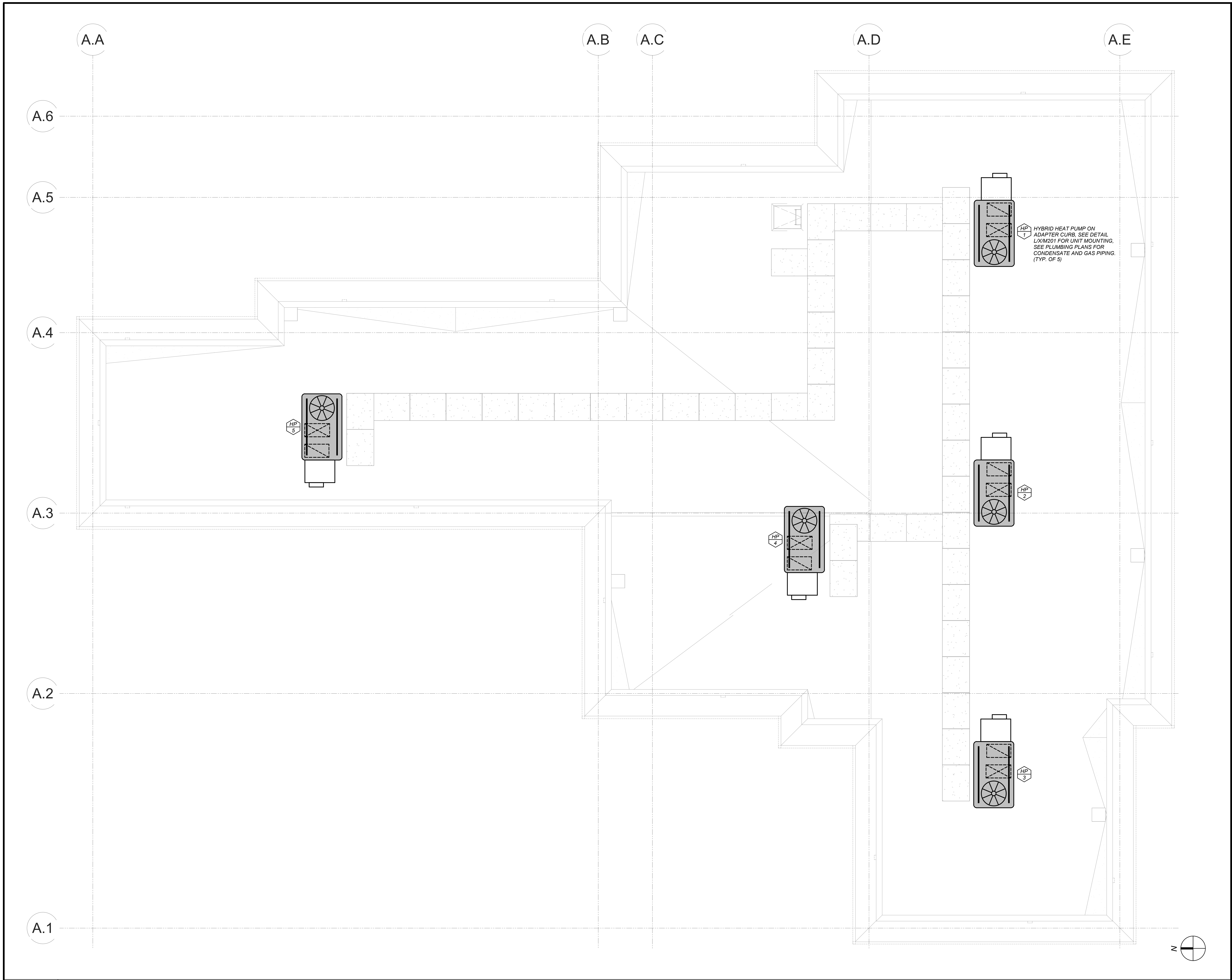

HYBRID HEAT PUMP ON ADAPTER CURB, SEE DETAIL L/X/M201 FOR UNIT MOUNTING, SEE PLUMBING PLANS FOR CONDENSATE AND GAS PIPING. (TYP. OF 5)

A1 Mechanical Roof Plan

1/4" = 1'-0"

DSA File No.:
24-35

DSA Application No.:
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Reviewed By: RC

A/M202

DOMESTIC WATER DEMAND AND PIPE SIZING

WATER METER SIZE — WATER METER USED?	YES	2"
TOTAL FIXTURE UNITS		39
FIXTURE UNIT GPM		46
ADDITIONAL EQUIPMENT GPM		0
TOTAL BUILDING GPM		46
MINIMUM PSI AVAILABLE AT JOBSITE		42.00
PSI FLOW LOSS THROUGH WATER METER (CHART A-1)		4.27
PSI LOSS THROUGH BACK FLOW PREVENTER (*RP = 12.0 PSI / *D.C. = 12.0 PSI.)		12.0
SITE WATER PIPE SIZE		2
TOTAL DEVELOPED LENGTH FROM METER TO BUILDING POINT OF ENTRY (FT)		60.0
SITE WATER PSI PRESSURE DROP/100' OF PIPE		1.86
TOTAL PSI MAIN LOSS FROM METER TO BUILDING		1.117
TOTAL PRESSURE AVAILABLE AT BUILDING EXTERIOR WALL		24.6
TOTAL DEVELOPED BUILDING MAIN LENGTH TO MOST REMOTE FIXTURE (FT)		86.0
TOTAL RISE FOR HEAD LOSS (FT x 0.43)	3.0	1.3
MAIN PRV PSI LOSS OR OTHER SIMILAR EQUIPMENT / MAIN PSI LOSS		0.0
PSI REQUIRED FOR GOVERNING FIXTURE		20.0
TOTAL BUILDING LOSS (PSI)		21.3
REMAINING PSI AVAILABLE (IF NEGATIVE, USE BOOSTER PUMP)		3.3
BOOSTER PUMP (PSI)		0.0
TOTAL REMAINING PSI AVAILABLE		3.3
FRICTION LOSS (PSI/100 FT.)		3.9
MAXIMUM COLD WATER VELOCITY ALLOWED (FT/S)		6.0
MAXIMUM HOT WATER VELOCITY ALLOWED (FT/S)		4.0

COLD WATER COPPER TYPE L SYSTEM

PIPE SIZE INCHES (ID)		GPM	VELOCITY (fps)	FLUSH VALVE	FLUSH TANK
3"	**2.945**	-	-	-	-
2.5"	**2.465**	88.9	6.0	191	322
2"	**1.985**	57.4	6.0	67	161
1.5"	**1.505**	33.0	6.0	16	63
1.25"	**1.265**	20.7	5.3	9	31
1"	**1.025**	11.8	4.6	-	15
.75"	**0.785**	5.8	3.8	-	7
.50"	**0.545**	2.1	2.8	-	2

HOT WATER COPPER TYPE L SYSTEM

PIPE SIZE INCHES (ID)		GPM	VELOCITY (fps)	FLUSH VALVE	FLUSH TANK
3"	**2.945**	84.7	4.0	171	300
2.5"	**2.465**	59.2	4.0	72	170
2"	**1.985**	38.2	4.0	23	80
1.5"	**1.505**	22.0	4.0	9	34
1.25"	**1.265**	15.6	4.0	-	22
1"	**1.025**	10.2	4.0	-	13
.75"	**0.785**	5.8	3.8	-	7
.50"	**0.545**	2.1	2.8	-	2

FUEL GAS PIPING

TABLE 1215.2(1)
SCHEDULE 40 METALLIC PIPE [NFPA 54: TABLE 6.2.1(b)][1, 2]

GAS: NATURAL
INLET PRESSURE: LESS THAN 2 psi
PRESSURE DROP: 0.5 in. w.c.
SPECIFIC GRAVITY: 0.60

	PIPE SIZE (inch)													
NOMINAL:	½	¾	1	1¼	1½	2	2½	3	4	5	6	8	10	12
ACTUAL ID:	0.622	0.824	1.049	1.380	1.610	2.067	2.469	3.068	4.026	5.047	6.065	7.981	10.020	11.938
LENGTH (feet)	CAPACITY IN CUBIC FEET OF GAS PER HOUR													
10	172	360	678	1390	2090	4020	6400	11 300	23 100	41 800	67 600	139 000	252 000	399 000
20	118	247	466	957	1430	2760	4400	7780	15 900	28 700	46 500	95 500	173 000	275 000
30	95	199	374	768	1150	2220	3530	6250	12 700	23 000	37 300	76 700	139 000	220 000
40	81	170	320	657	985	1900	3020	5350	10 900	19 700	31 900	65 600	119 000	189 000
50	72	151	284	583	873	1680	2680	4740	9660	17 500	28 300	58 200	106 000	167 000
60	65	137	257	528	791	1520	2430	4290	8760	15 800	25 600	52 700	95 700	152 000
70	60	126	237	486	728	1400	2230	3950	8050	14 600	23 600	48 500	88 100	139 000
80	56	117	220	452	677	1300	2080	3670	7490	13 600	22 000	45 100	81 900	130 000
90	52	110	207	424	635	1220	1950	3450	7030	12 700	20 600	42 300	76 900	122 000
100	50	104	195	400	600	1160	1840	3260	6640	12 000	19 500	40 000	72 600	115 000
125	44	92	173	355	532	1020	1630	2890	5890	10 600	17 200	35 400	64 300	102 000
150	40	83	157	322	482	928	1480	2610	5330	9650	15 600	32 100	58 300	92 300
175	37	77	144	296	443	854	1360	2410	4910	8880	14 400	29 500	53 600	84 900
200	34	71	134	275	412	794	1270	2240	4560	8260	13 400	27 500	49 900	79 000
250	30	63	119	244	366	704	1120	1980	4050	7320	11 900	24 300	44 200	70 000
300	27	57	108	221	331	638	1020	1800	3670	6630	10 700	22 100	40 100	63 400
▶ 350	25	53	99	203	305	587	935	1650	3370	6100	9880	20 300	36 900	58 400
400	23	49	92	189	283	546	870	1540	3140	5680	9190	18 900	34 300	54 300
450	22	46	86	177	266	512	816	1440	2940	5330	8620	17 700	32 200	50 900
500	21	43	82	168	251	484	771	1360	2780	5030	8150	16 700	30 400	48 100

For SI units: 1 inch = 25 mm, 1 foot = 304.8 mm, 1 cubic foot per hour = 0.0283 m^3/h, 1 pound-force per square inch = 6.8947 kPa, 1 inch water column = 0.249 kPa

Notes:

[1] Table entries are rounded to 3 significant digits.

[2] NA means a flow of less than 10 ft3/h (0.283 m^3/h).

2022 CALIFORNIA PLUMBING CODE

PLUMBING FIXTURE CALCULATIONS

ROOM	FIXTURE	NO.	CW WSFU		HW WSFU		SEWER DFU		HOT WATER	HOT WATER	Grease Interceptor Sizing - DFU	
			UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	GPH	TOTAL GPH	UNIT	TOTAL
	WC-FV	5	5.00	25	-	-	4.00	20.00	-	-		
	LAV	5	0.75	4	0.75	4	1.00	5.00	-	-		
	UR	1	4.00	4	-	-	2.00	2.00	-	-		
	SINK	4	1.50	6	1.50	6	2.00	8.00	-	-		
SUBTOTAL / TOTAL				39		10		35.0		-		-
GPM FLOW				46		8						

GAS DEMAND FORM

Project: *Merced Community Day School Modernization*
Date: *11/13/2025*
Prepared By: *Lawrence Engineering Group*
File Name: *Plumbing Calculations.*

NOTE: ***Building Low Pressure Gas Pipe Sized Per 2022 CPC Table 1215.2(1)***

QUANTITY	EQUIPMENT	BTUH EACH	MBH EACH	TOTAL MBH	TOTAL CFH
	BUILDING GAS APPLIANCES				
1	(N) UNIT (HP-1)	80000	80.0	80.0	80.0
1	(N) UNIT (HP-2)	80000	80.0	80.0	80.0
1	(N) UNIT (HP-3)	80000	80.0	80.0	80.0
1	(N) UNIT (HP-4)	80000	80.0	80.0	80.0
1	(N) UNIT (HP-5)	80000	80.0	80.0	80.0
	TOTAL DEVELOPED LENGTH = 320			**400.0**	**400.0**

GENERAL PLUMBING NOTES:

1. *THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE BUILDING IN ACCORDANCE WITH THE 2022 EDITION OF TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WOULD NOT COMPLY WITH SAID TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUESTED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.*

2. *THE APPLICABLE CODES AND REGULATIONS FOR THIS PROJECT INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:*

   CALIFORNIA CODE OF REGULATIONS
   - *TITLE 8, INDUSTRIAL RELATIONS*
   - *TITLE 19, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS*
   - *TITLE 24, PART 1, ADMINISTRATIVE REGULATIONS*

   2022 CALIFORNIA BUILDING CODE, PART 2, TITLE 24 CCR
   2022 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24 CCR
   2022 CALIFORNIA MECHANICAL CODE, PART 4, TITLE 24 CCR
   2022 CALIFORNIA PLUMBING CODE, PART 5, TITLE 24 CCR
   2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 CCR

   NFPA 101 2024 EDITION
   OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT

3. *LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY. THE PLUMBING BUILDING PLANS HAVE BEEN PREPARED TO MATCH THE ARCHITECTURAL PLANS. IF DIFFERENCES OCCUR, THE ARCHITECTURAL PLANS ARE TO TAKE PRECEDENCE. THE ACTUAL LOCATIONS OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED, PRIOR TO INSTALLATION OF ANY WORK, TO AVOID ALL INTERFERENCE WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL, OR OTHER ELEMENTS. ALL PIPE OFFSET ELBOWS FOR COORDINATION BETWEEN TRADES ARE NOT SHOWN. CONTRACTOR SHALL INCLUDE SUFFICIENT FUNDS FOR THE COORDINATION OFFSETS IN THE BID. VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE ELECTRICAL PLANS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER PRIOR TO INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.*

4. *WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER-DRIVEN PINS IN EXISTING NON-PRESTRESSED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRE-STRESSED CONCRETE (PRE- OR POST-TENSIONED), LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.*

5. ***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 2022 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, MOVEABLE OR MOBILE EQUIPMENT THAT THAT IS PERMANENTLY ATTACHED (E. 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 HAVE 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 NOTE:

   PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7 SECTIONS 13.6.5, 13.6.6, 13.6.7, AND 13.6.8; AND 2022 CBC SECTIONS 1617A.1.24, 1617A.1.25, 1617A.1.26.

   THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEMS ARE AS NOTED BELOW. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAVE VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16-13.

   MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP):

   MP ☐ MD ☐ PP ☒ OPTION 1: PROJECT SPECIFIC DESIGN.
   MP ☐ MD ☐ PP ☐ OPTION 2: DESIGN BASED ON OSHPD OPM, WITHIN PROJECT SUBMITTAL.
   MP ☐ MD ☐ PP ☐ OPTION 3: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL.

6. *BRACE ALL PIPING 4" DIAMETER AND GREATER; USE Ip=1.0 FOR SEISMIC DESIGN CALCULATIONS. EXCEPTION: NATURAL GAS PIPING 1"DIAMETER AND GREATER, USE Ip=1.5 FOR SEISMIC DESIGN CALCULATIONS.*

7. *PENETRATIONS THROUGH FIRE RATED WALLS, FLOOR/CEILING, AND ROOF/CEILING ASSEMBLIES SHALL BE SEALED USING AN APPROVED SYSTEM CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN SUBJECTED TO THE REQUIREMENTS OF THE TEST STANDARD SPECIFIC TO FIRE STOPS PER 2022 CBC SECTION 714. THIS INCLUDES EXISTING PIPE AND CONDUIT THROUGH NEW ASSEMBLIES. CUSTOM DESIGNED SYSTEMS WHICH COMBINE COMPONENTS FROM DIFFERENT APPROVED SYSTEMS BUT HAVE NOT BEEN TESTED AS A COMPLETE ASSEMBLY WILL NOT BE ACCEPTABLE. FOR FIRE STOPS FOR PIPE PENETRATIONS SEE SPECIFICATIONS.*

8. *FIELD VERIFY THE EXACT LOCATION, DEPTH AND SIZE OF ALL NEW POINTS OF CONNECTION TO EXISTING UTILITIES PRIOR TO COMMENCING NEW UTILITY WORK.*

9. *ALL DOMESTIC WATER PIPING SHALL BE A MINIMUM OF 1/2" SIZE UNLESS NOTED OTHERWISE. USE A REDUCING DROP ELL AT FIXTURE CONNECTION WHEN APPLICABLE.*

PLUMBING LEGEND

SYMBOL	*ITEM*	*ABBR*
━━━━	*SOIL or WASTE*	*S or W*
- - - - -	*VENT*	*V*
	VENT RISER	*VR*
	VENT THRU ROOF	*VTR*
—— - ——	*DOMESTIC COLD WATER*	*CW*
—— - - ——	*DOMESTIC HOT WATER*	*HW*
—— - - - ——	*DOMESTIC HOT WATER RETURN*	*HWR*
—G—	*LOW PRESSURE NATURAL GAS*	*G*
— 2#G —	*2 PSI GAS*	*2#G*
— 5#G —	*5 PSI GAS*	*5#G*
- -GSM- -	*GAS SERVICE MAIN BY THE LOCAL GAS UTILITY*	*GSM*
—C—	*CONDENSATE DRAIN*	*CD*
━RWL━	*RAIN WATER LEADER*	*RWL*
━OD━	*OVERFLOW DRAIN*	*OD*
━SD━	*STORM DRAIN*	*SD*
━IW━	*INDIRECT WASTE*	*IW*
—F—	*FIRE PROTECTION LINE*	*F*
—— ——	*EXISTING PIPING*	*(E)*
(E)	*EXISTING*	
(N)	*NEW*	
	ABOVE CEILING	*ABV CLG*
	BELOW FLOOR	*BEL FLR*
	BELOW GRADE	*BEL GR*
	TYPICAL	*TYP*
	CONTINUATION	*CONT*
	DOWN	*DN*
—Φ—	*FLOOR CLEANOUT*	*FCO*
—Φ—	*CLEANOUT TO GRADE*	*COTG*
——┤	*WALL CLEANOUT*	*WCO*
——○	*PIPING TURN UP*	
——Ↄ	*PIPING TURN DOWN*	
—×—	*POINT OF CONNECTION*	*POC*
—⊗—	*SHUT-OFF VALVE IN BOX*	*SOV*
—⋈—	*SHUT-OFF VALVE*	*SOV*
	SHUT-OFF VALVE IN RISER	*-*
	SHUT-OFF VALVE IN DROP	*-*
—⋈—	*GATE VALVE*	*-*
	BUTTERFLY VALVE	*-*
—⋈—	*GLOBE VALVE*	*-*
	CHECK VALVE	*-*
⊣▽⊢	*PLUG VALVE*	*-*
⊣○⊢	*BALL VALVE*	*-*
	BALANCE COCK	*-*
—▷—	*REDUCER*	*-*
—○—	*MANHOLE*	*MH*
	FLOW LINE	*FL*
—‖—	*UNION*	*-*
	RELIEF VALVE	*-*
	BALANCING VALVE	*-*
	PRESSURE GAUGE	*-*
	THERMOMETER	*-*

FIRE RATING WALL LEGEND

SYMBOL	*ITEM*	*ABBR*
— · — —	*1-HR. SHAFT RATING*	—

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval [redacted]

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Community Day School Modernization
Merced City Unified School District
Merced, CA, 95340
Project [redacted]

TYPICAL INFORMATION
PLUMBING LEGENDS, NOTES AND CALCULATIONS
Drawing [redacted]

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No. C-20,307
Ren. 6-30-27

Architect [redacted]

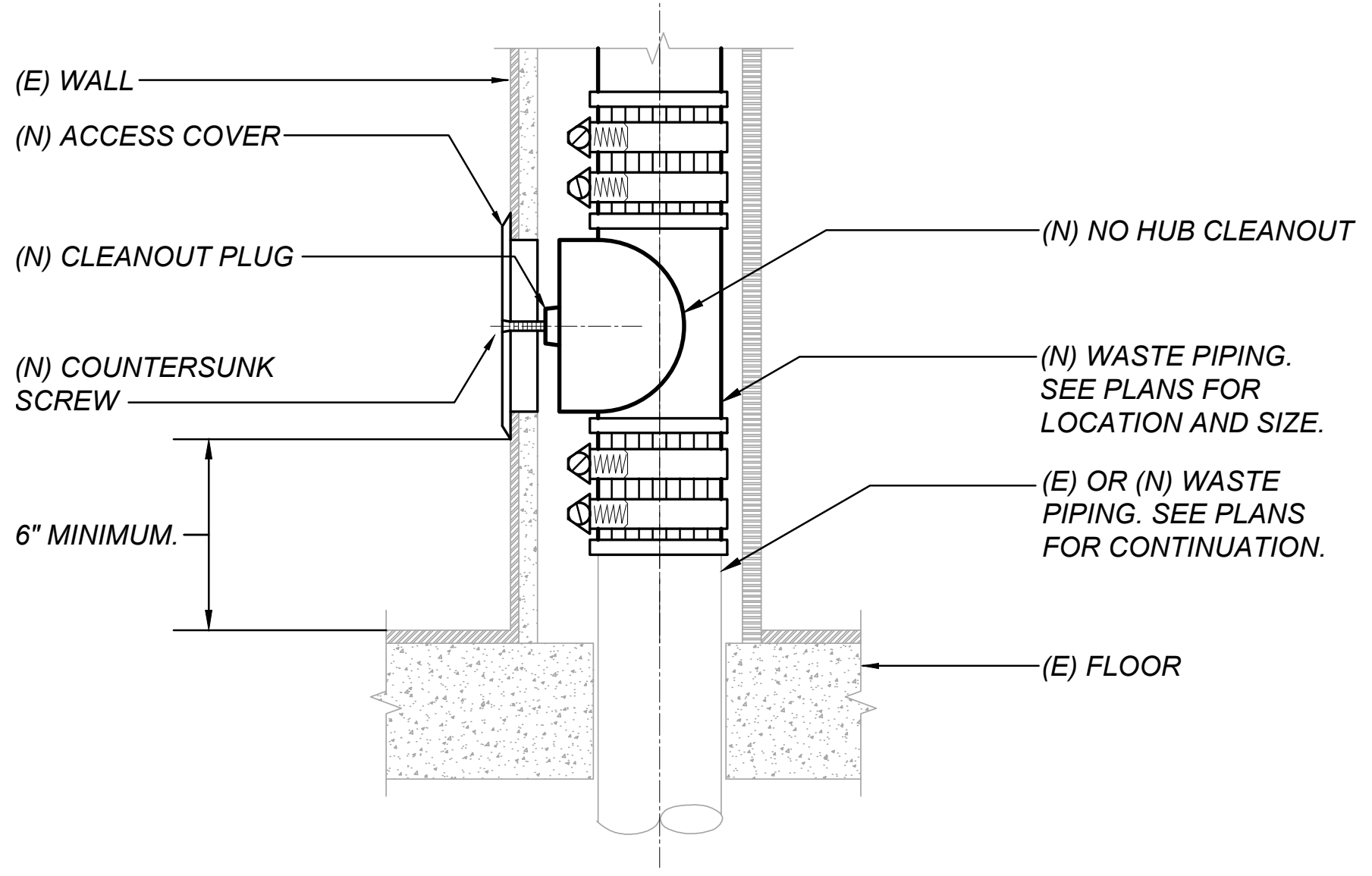
No.	Revision/Submission	Date

Revision [redacted]

	Designed By: DG	Copyright 2026 Darden Architects
Scale: NONE	Drawn By: LEG	X/P001
Project Number: 2533	Checked By: DG	
Date: 2/9/26	Reviewed By: RC	

A1 Plumbing Legends, Notes and Calculations

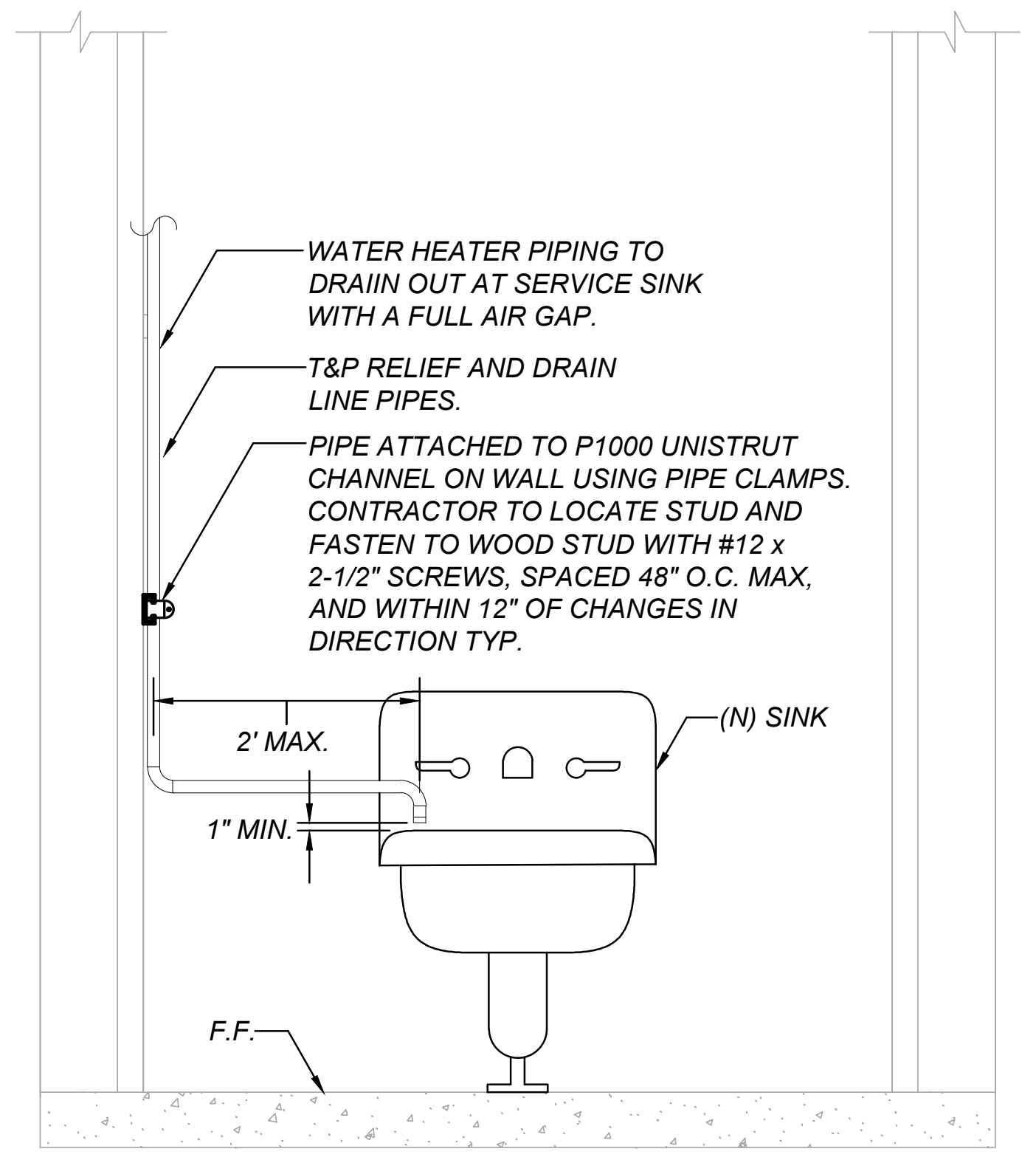
6 February 2026 12:20 PM P:\2025\25087 Merced Community Day School Modernization\4-Drawings\5 P\XP001 PLUMBING LEGEND NOTES AND CALCULATIONS.dwg dominic


(E) WALL
(N) ACCESS COVER
(N) CLEANOUT PLUG
(N) COUNTERSUNK SCREW
6" MINIMUM.
(N) NO HUB CLEANOUT
(N) WASTE PIPING. SEE PLANS FOR LOCATION AND SIZE.
(E) OR (N) WASTE PIPING. SEE PLANS FOR CONTINUATION.
(E) FLOOR

WALL CLEANOUT

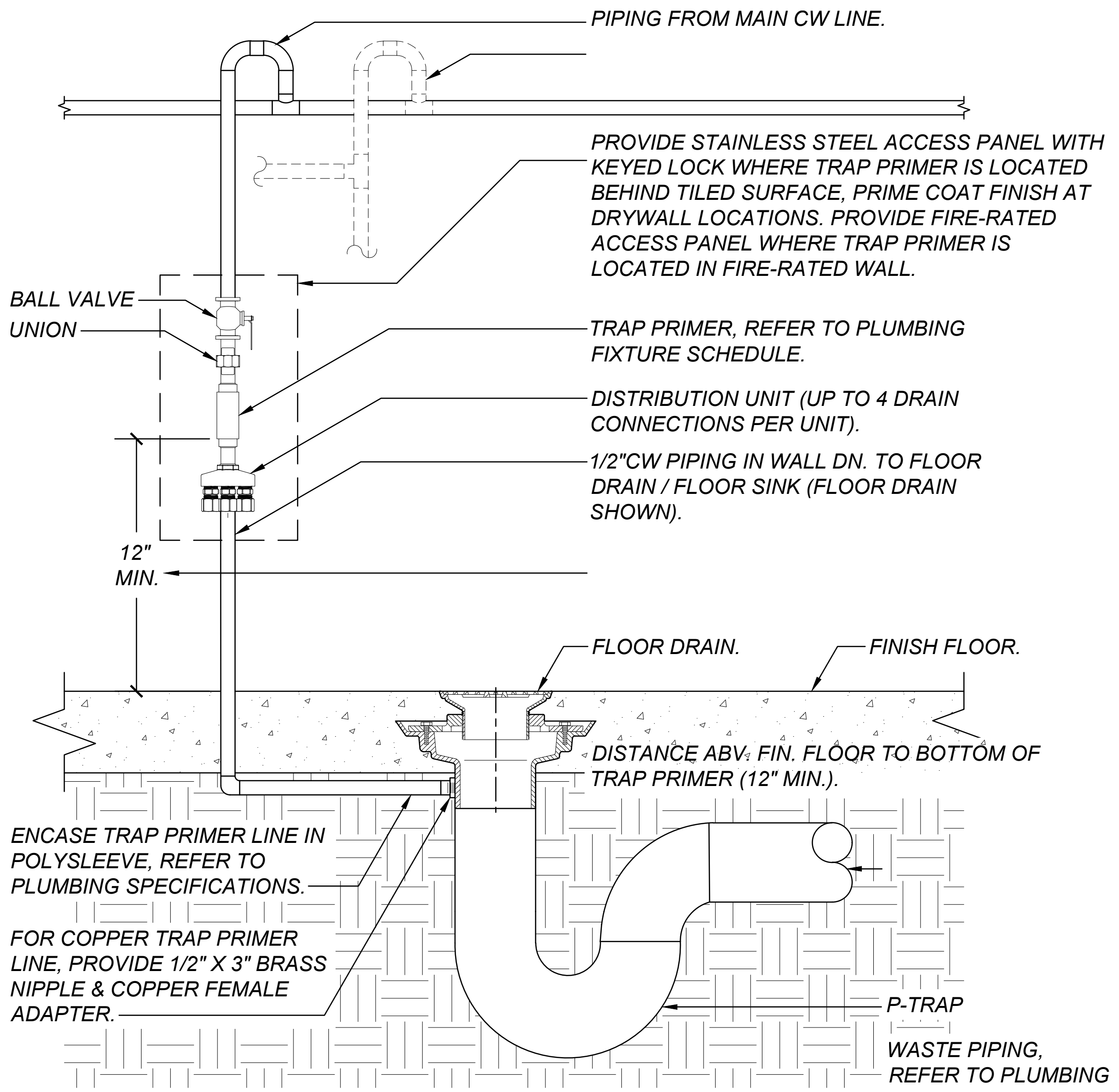
SCALE: NONE

J
X/P101


WATER HEATER PIPING TO DRAIIN OUT AT SERVICE SINK WITH A FULL AIR GAP.
T&P RELIEF AND DRAIN LINE PIPES.
PIPE ATTACHED TO P1000 UNISTRUT CHANNEL ON WALL USING PIPE CLAMPS. CONTRACTOR TO LOCATE STUD AND FASTEN TO WOOD STUD WITH #12 x 2-1/2" SCREWS, SPACED 48" O.C. MAX, AND WITHIN 12" OF CHANGES IN DIRECTION TYP.
2' MAX.
(N) SINK
1" MIN.
F.F.

DRAIN PIPING TO SERVICE SINK DETAIL

K
X/P101

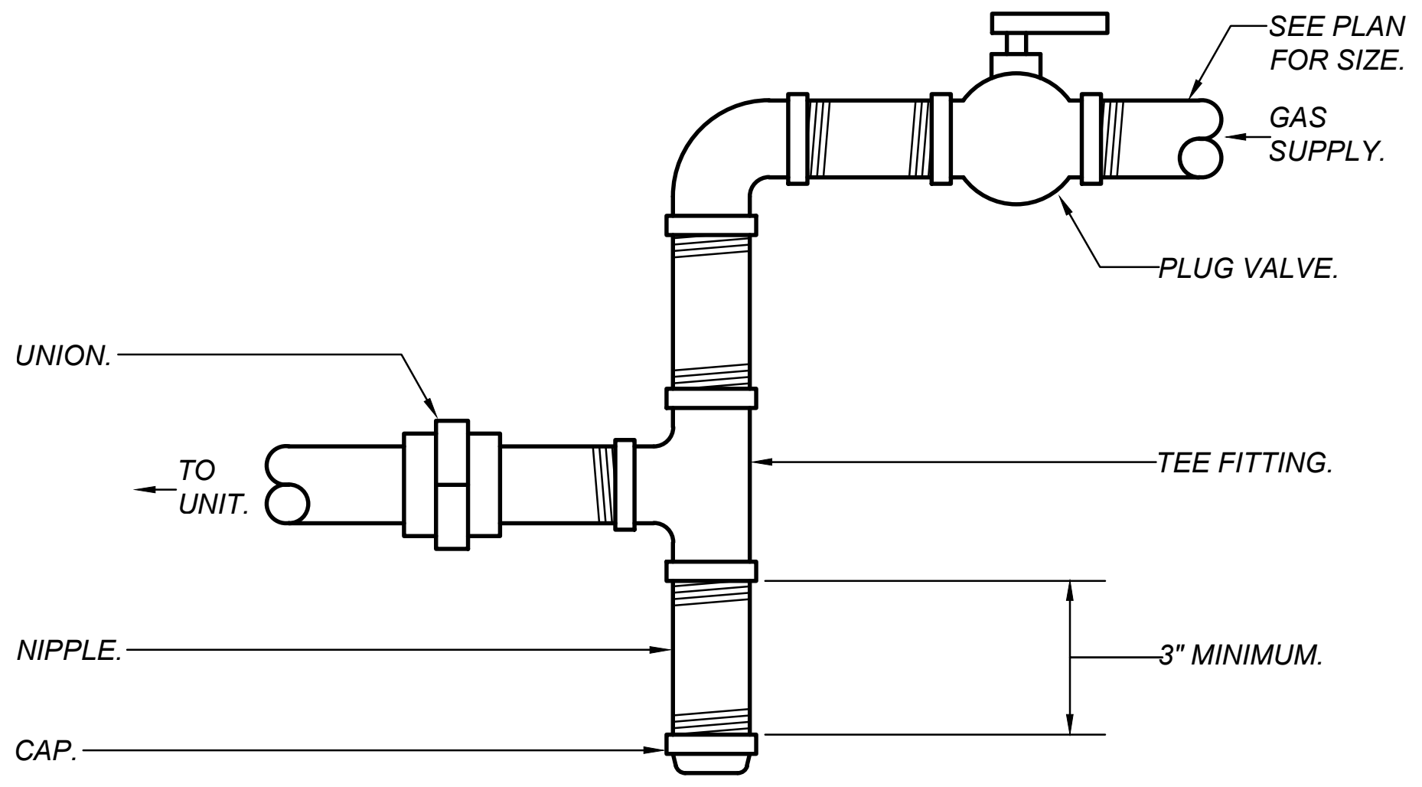

PIPING FROM MAIN CW LINE.
PROVIDE STAINLESS STEEL ACCESS PANEL WITH KEYED LOCK WHERE TRAP PRIMER IS LOCATED BEHIND TILED SURFACE, PRIME COAT FINISH AT DRYWALL LOCATIONS. PROVIDE FIRE-RATED ACCESS PANEL WHERE TRAP PRIMER IS LOCATED IN FIRE-RATED WALL.
BALL VALVE
UNION
TRAP PRIMER, REFER TO PLUMBING FIXTURE SCHEDULE.
DISTRIBUTION UNIT (UP TO 4 DRAIN CONNECTIONS PER UNIT).
1/2"CW PIPING IN WALL DN. TO FLOOR DRAIN / FLOOR SINK (FLOOR DRAIN SHOWN).
12" MIN.
FLOOR DRAIN.
FINISH FLOOR.
DISTANCE ABV. FIN. FLOOR TO BOTTOM OF TRAP PRIMER (12" MIN.).
ENCASE TRAP PRIMER LINE IN POLYSLEEVE, REFER TO PLUMBING SPECIFICATIONS.
FOR COPPER TRAP PRIMER LINE, PROVIDE 1/2" X 3" BRASS NIPPLE & COPPER FEMALE ADAPTER.
P-TRAP
WASTE PIPING, REFER TO PLUMBING SPECIFICATION.

NOTE:
REFER TO MANUFACTURER'S INSTALLATION REQUIREMENTS FOR ELEVATION OF TRAP PRIMER VS. LENGTH OF RUN TO DRAINS. TRAP PRIMER ELEVATION TO BE INCREASED IN HEIGHT ABOVE FINISHED FLOOR FOR RUNS OVER 20'-0". REFER TO PLUMBING PLANS FOR SIZING.

TRAP PRIMER CONNECTION

SCALE: NONE

L
X/P101

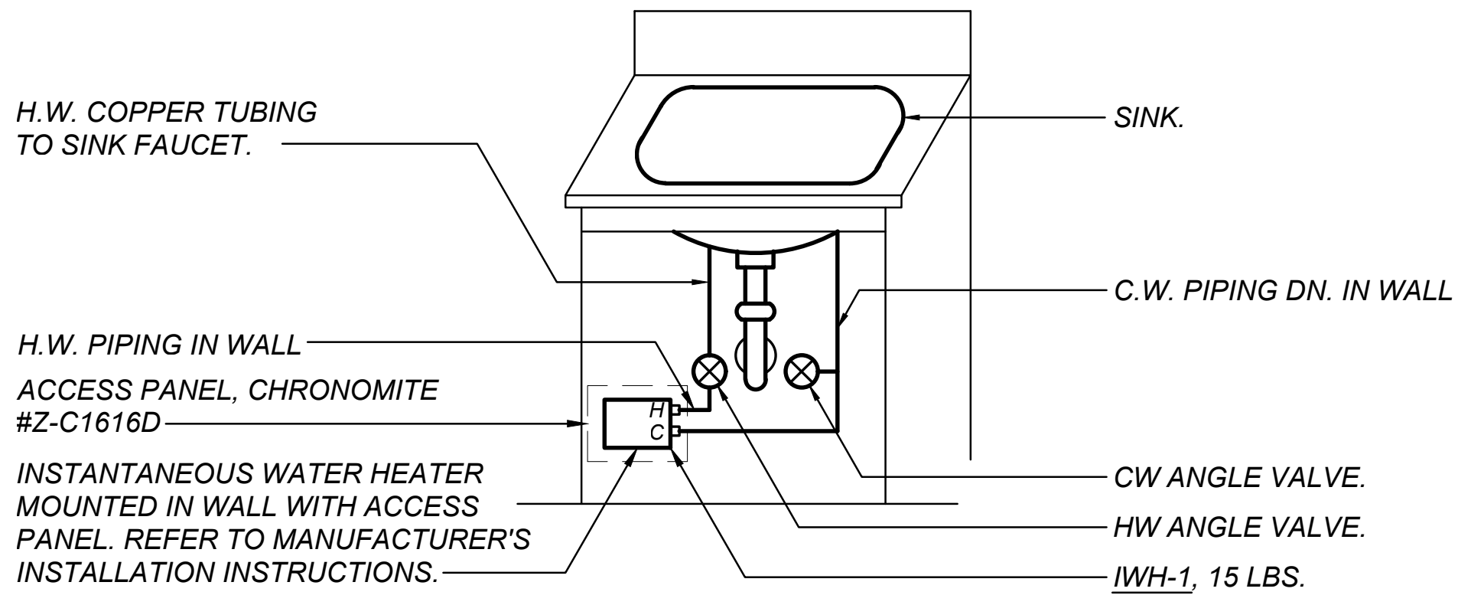


GAS PIPING DIRT LEG DETAIL

SCALE: NONE

P128

D
X/P101

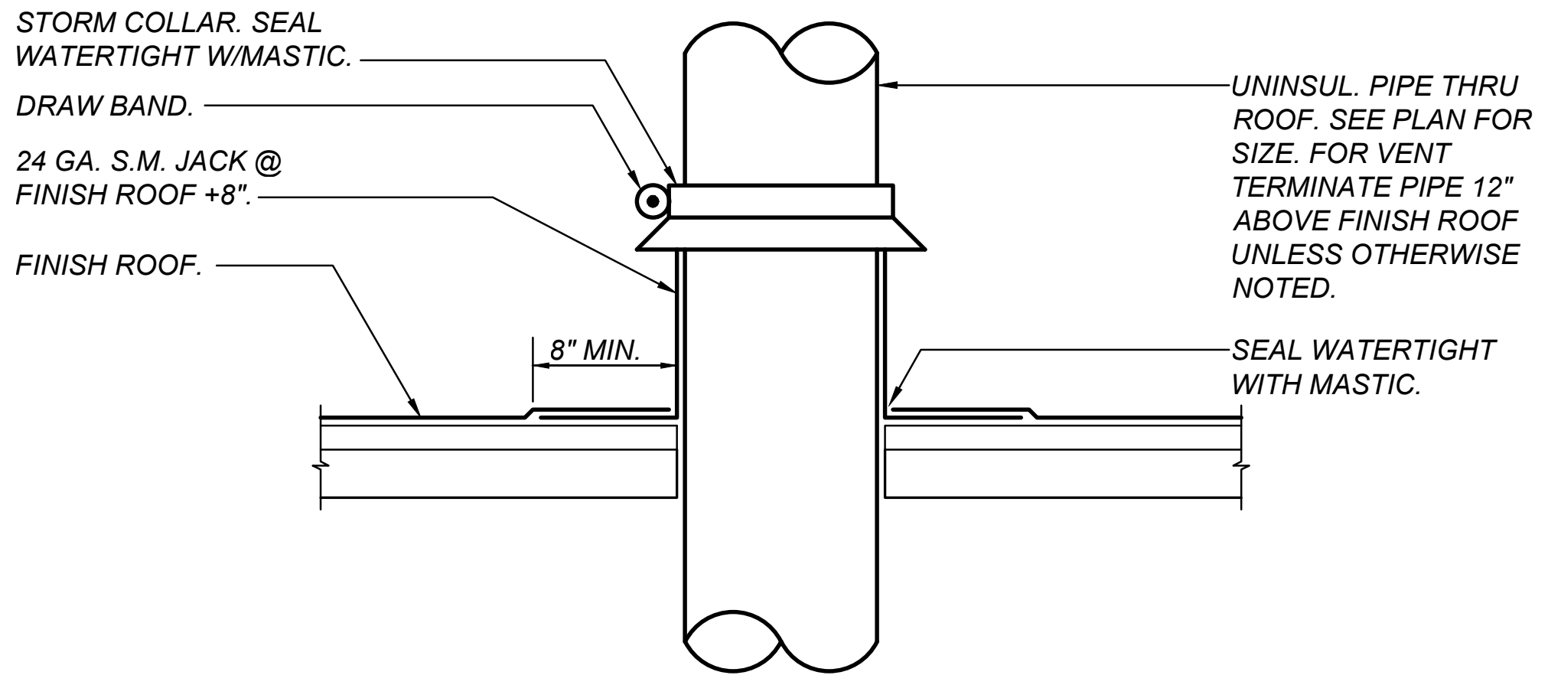

H.W. COPPER TUBING TO SINK FAUCET.
SINK.
C.W. PIPING DN. IN WALL
H.W. PIPING IN WALL
ACCESS PANEL, CHRONOMITE #Z-C1616D
H
C
INSTANTANEOUS WATER HEATER MOUNTED IN WALL WITH ACCESS PANEL. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
CW ANGLE VALVE.
HW ANGLE VALVE.
IWH-1, 15 LBS.

INSTANTANEOUS WATER HEATER DETAIL

SCALE: NONE

P181

E
X/P101

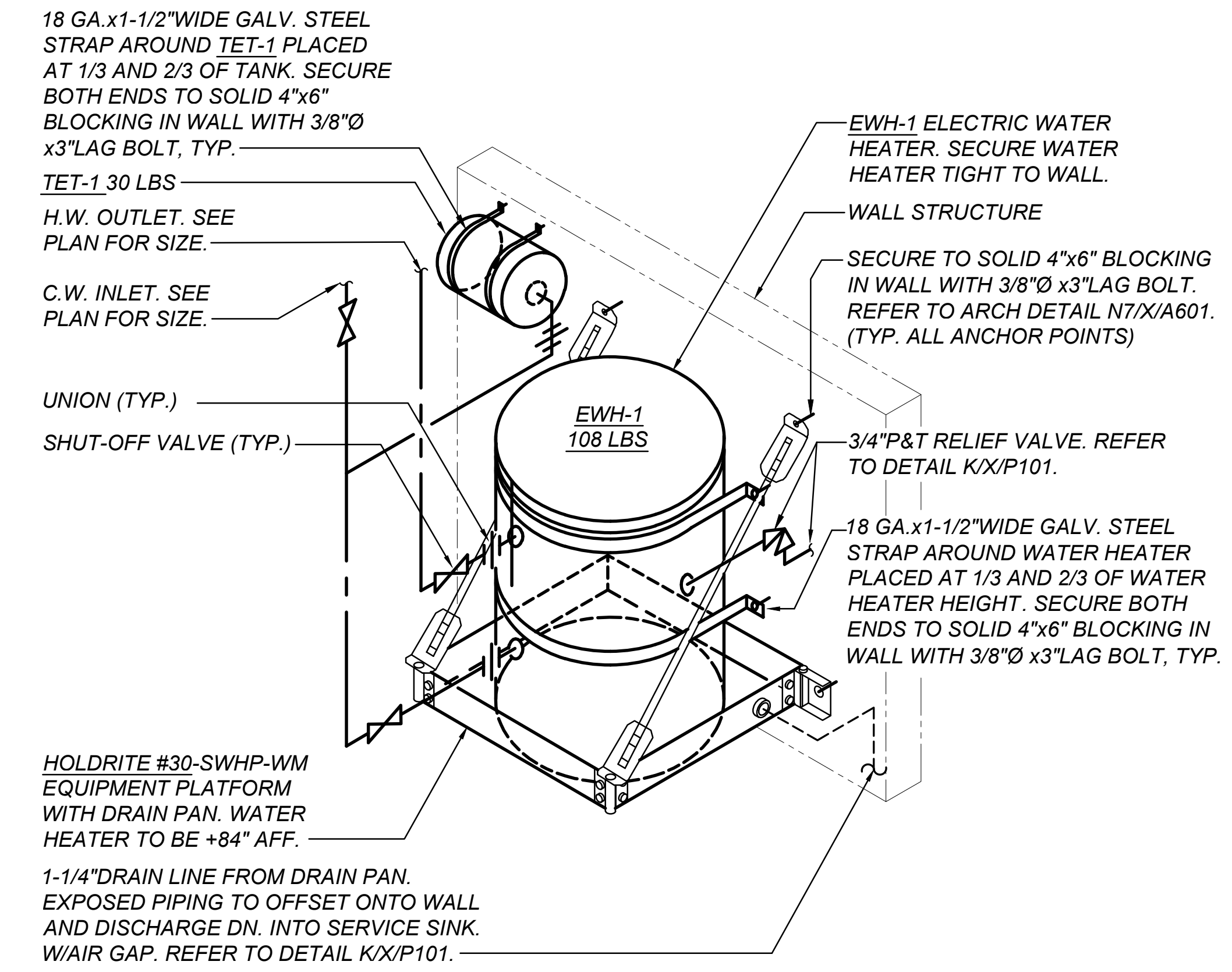

STORM COLLAR. SEAL WATERTIGHT W/MASTIC.
DRAW BAND.
24 GA. S.M. JACK @ FINISH ROOF +8".
FINISH ROOF.
8" MIN.
UNINSUL. PIPE THRU ROOF. SEE PLAN FOR SIZE. FOR VENT TERMINATE PIPE 12" ABOVE FINISH ROOF UNLESS OTHERWISE NOTED.
SEAL WATERTIGHT WITH MASTIC.

PIPE THRU ROOF DETAIL - UNINSULATED

SCALE: NONE

P163

F
X/P101

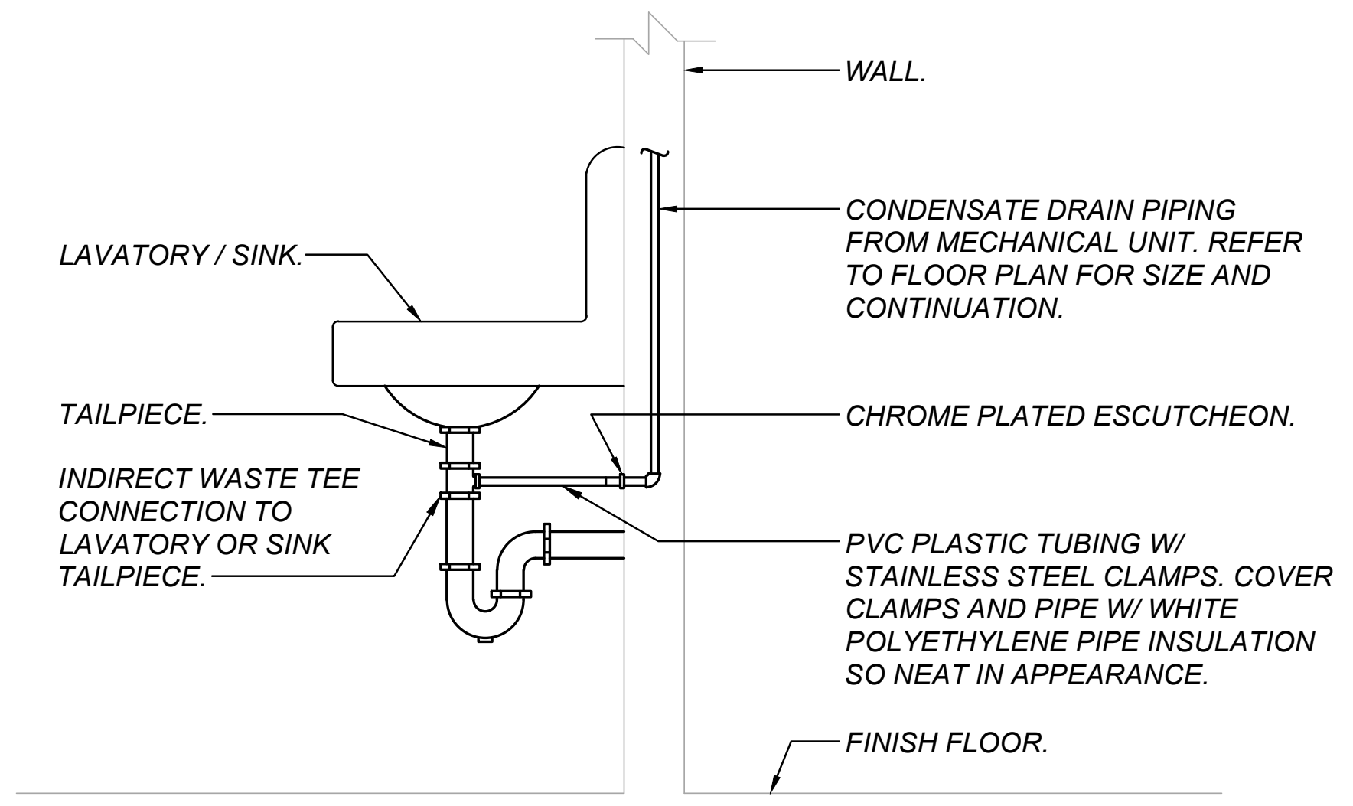

18 GA.x1-1/2"WIDE GALV. STEEL STRAP AROUND TET-1 PLACED AT 1/3 AND 2/3 OF TANK. SECURE BOTH ENDS TO SOLID 4"x6" BLOCKING IN WALL WITH 3/8"Ø x3"LAG BOLT, TYP.
TET-1 30 LBS
H.W. OUTLET. SEE PLAN FOR SIZE.
C.W. INLET. SEE PLAN FOR SIZE.
UNION (TYP.)
SHUT-OFF VALVE (TYP.)
EWH-1 ELECTRIC WATER HEATER. SECURE WATER HEATER TIGHT TO WALL.
WALL STRUCTURE
SECURE TO SOLID 4"x6" BLOCKING IN WALL WITH 3/8"Ø x3"LAG BOLT. REFER TO ARCH DETAIL N7/X/A601. (TYP. ALL ANCHOR POINTS)
EWH-1
108 LBS
3/4"P&T RELIEF VALVE. REFER TO DETAIL K/X/P101.
18 GA.x1-1/2"WIDE GALV. STEEL STRAP AROUND WATER HEATER PLACED AT 1/3 AND 2/3 OF WATER HEATER HEIGHT. SECURE BOTH ENDS TO SOLID 4"x6" BLOCKING IN WALL WITH 3/8"Ø x3"LAG BOLT, TYP.
HOLDRITE #30-SWHP-WM EQUIPMENT PLATFORM WITH DRAIN PAN. WATER HEATER TO BE +84" AFF.
1-1/4"DRAIN LINE FROM DRAIN PAN. EXPOSED PIPING TO OFFSET ONTO WALL AND DISCHARGE DN. INTO SERVICE SINK. W/AIR GAP. REFER TO DETAIL K/X/P101.

WATER HEATER (EWH-1) DETAIL

SCALE: NONE

WOOD WALL

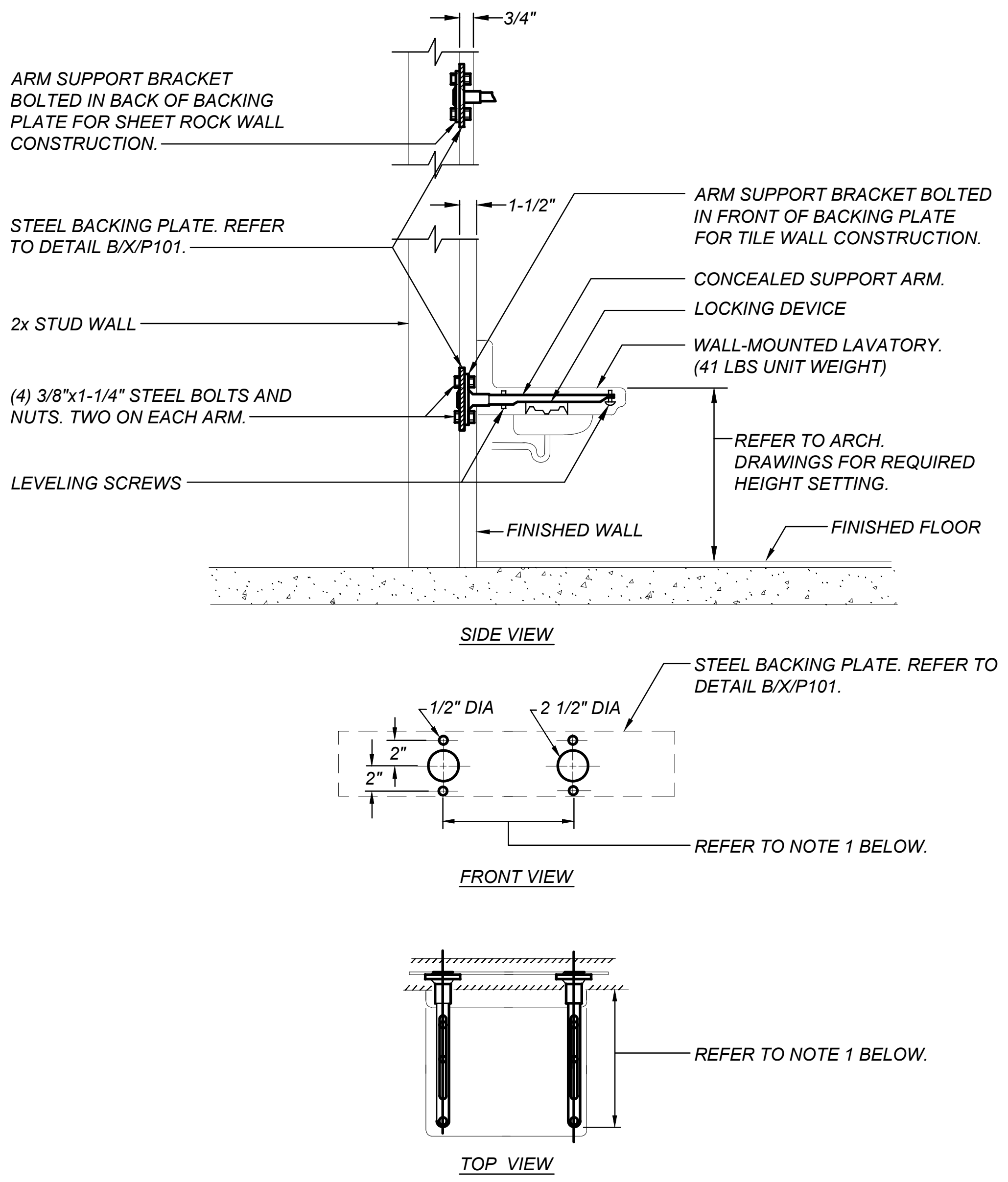
G
X/P101


WALL.
LAVATORY / SINK.
CONDENSATE DRAIN PIPING FROM MECHANICAL UNIT. REFER TO FLOOR PLAN FOR SIZE AND CONTINUATION.
TAILPIECE.
CHROME PLATED ESCUTCHEON.
INDIRECT WASTE TEE CONNECTION TO LAVATORY OR SINK TAILPIECE.
PVC PLASTIC TUBING W/ STAINLESS STEEL CLAMPS. COVER CLAMPS AND PIPE W/ WHITE POLYETHYLENE PIPE INSULATION SO NEAT IN APPEARANCE.
FINISH FLOOR.

CONDENSATE TERMINATION TO TAILPIECE

SCALE: NONE

H
X/P101


3/4"
ARM SUPPORT BRACKET BOLTED IN BACK OF BACKING PLATE FOR SHEET ROCK WALL CONSTRUCTION.
1-1/2"
ARM SUPPORT BRACKET BOLTED IN FRONT OF BACKING PLATE FOR TILE WALL CONSTRUCTION.
STEEL BACKING PLATE. REFER TO DETAIL B/X/P101.
CONCEALED SUPPORT ARM.
LOCKING DEVICE
2x STUD WALL
WALL-MOUNTED LAVATORY. (41 LBS UNIT WEIGHT)
(4) 3/8"x1-1/4" STEEL BOLTS AND NUTS. TWO ON EACH ARM.
REFER TO ARCH. DRAWINGS FOR REQUIRED HEIGHT SETTING.
LEVELING SCREWS
FINISHED WALL
FINISHED FLOOR
SIDE VIEW
STEEL BACKING PLATE. REFER TO DETAIL B/X/P101.
1/2" DIA
2 1/2" DIA
2"
2"
REFER TO NOTE 1 BELOW.
FRONT VIEW
REFER TO NOTE 1 BELOW.
TOP VIEW

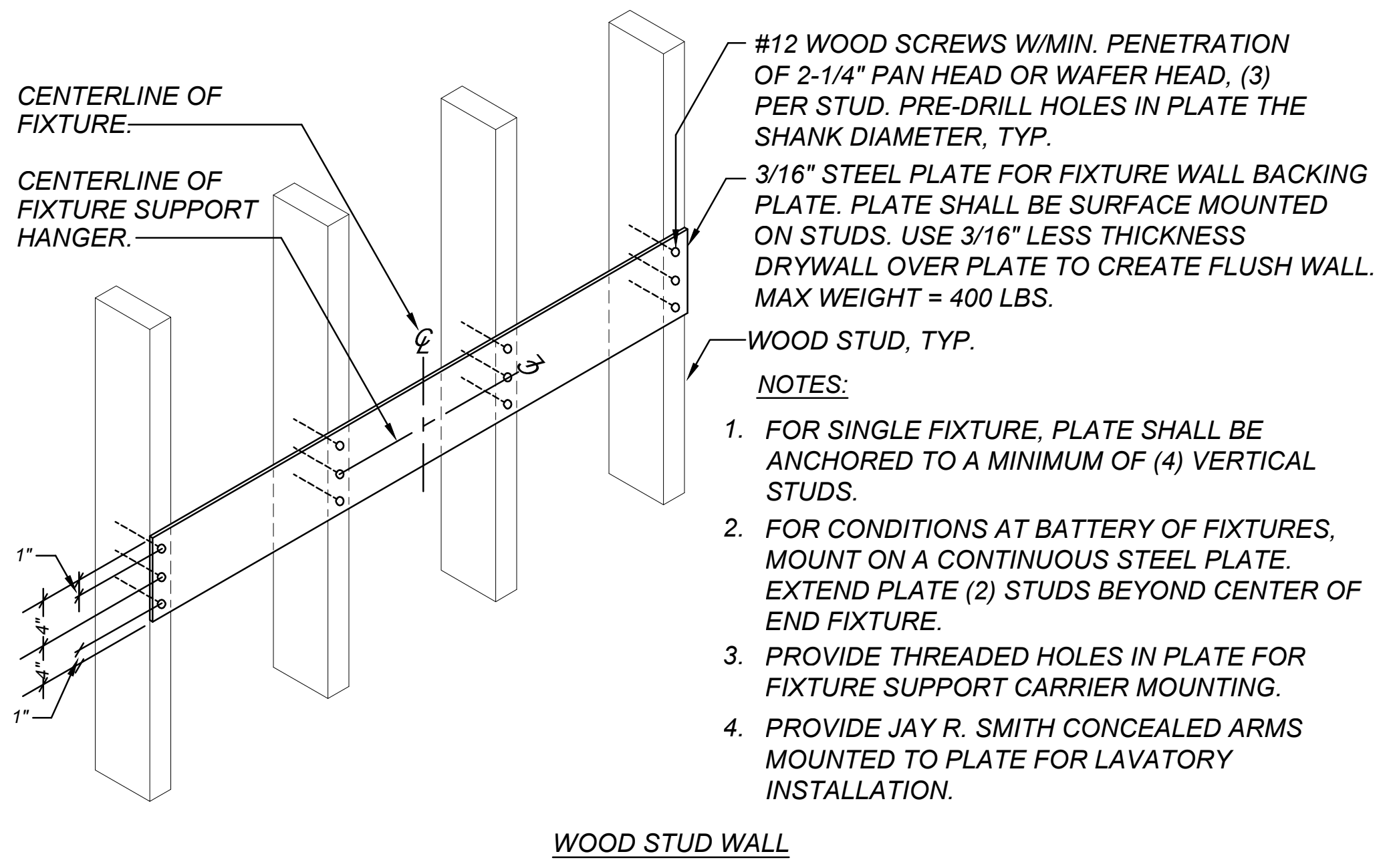
NOTE:

1. VERIFY ROUGHING-IN DIMENSIONS WITH BOTH THE CARRIER MANUFACTURER AND FIXTURE MANUFACTURER.

LAVATORY CONCEALED ARM SUPPORT DETAIL

SCALE: NONE

A
X/P101


CENTERLINE OF FIXTURE.
CENTERLINE OF FIXTURE SUPPORT HANGER.
#12 WOOD SCREWS W/MIN. PENETRATION OF 2-1/4" PAN HEAD OR WAFER HEAD, (3) PER STUD. PRE-DRILL HOLES IN PLATE THE SHANK DIAMETER, TYP.
3/16" STEEL PLATE FOR FIXTURE WALL BACKING PLATE. PLATE SHALL BE SURFACE MOUNTED ON STUDS. USE 3/16" LESS THICKNESS DRYWALL OVER PLATE TO CREATE FLUSH WALL. MAX WEIGHT = 400 LBS.
WOOD STUD, TYP.
1"
4"
4"
1"
3
WOOD STUD WALL

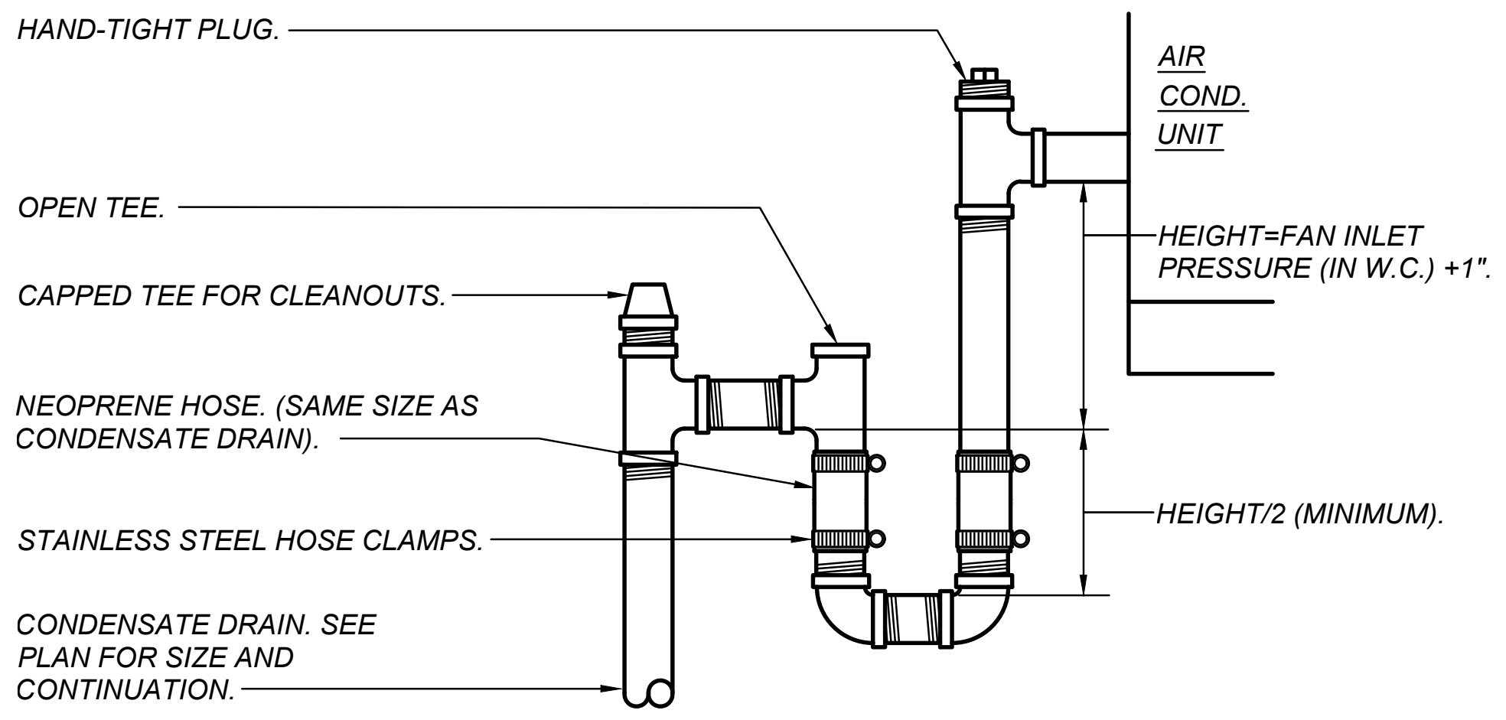
NOTES:

1. FOR SINGLE FIXTURE, PLATE SHALL BE ANCHORED TO A MINIMUM OF (4) VERTICAL STUDS.
2. FOR CONDITIONS AT BATTERY OF FIXTURES, MOUNT ON A CONTINUOUS STEEL PLATE. EXTEND PLATE (2) STUDS BEYOND CENTER OF END FIXTURE.
3. PROVIDE THREADED HOLES IN PLATE FOR FIXTURE SUPPORT CARRIER MOUNTING.
4. PROVIDE JAY R. SMITH CONCEALED ARMS MOUNTED TO PLATE FOR LAVATORY INSTALLATION.

FIXTURE SUPPORT BACKING PLATE DETAIL

SCALE: NONE

B
X/P101


HAND-TIGHT PLUG.
AIR COND. UNIT
OPEN TEE.
CAPPED TEE FOR CLEANOUTS.
HEIGHT=FAN INLET PRESSURE (IN W.C.) +1".
NEOPRENE HOSE. (SAME SIZE AS CONDENSATE DRAIN).
HEIGHT/2 (MINIMUM).
STAINLESS STEEL HOSE CLAMPS.
CONDENSATE DRAIN. SEE PLAN FOR SIZE AND CONTINUATION.

CONDENSATE DRAIN CONNECTION DETAIL

SCALE: NONE

P020

C
X/P101

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

LAWRENCE
ENGINEERING GROUP
4910 E. Clinton Way, Suite 101 Fresno, CA 93727
(559) 431-0101 25087 FAX (559) 431-1362

No. M34846
Exp. 6-30-26

Community Day School Modernization
Merced City Unified School District
Merced, CA, 95340
Project

TYPICAL INFORMATION
PLUMBING DETAILS
Drawing

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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27
Architect

No.	Revision/Submission	Date

Revision

Designed By: DG
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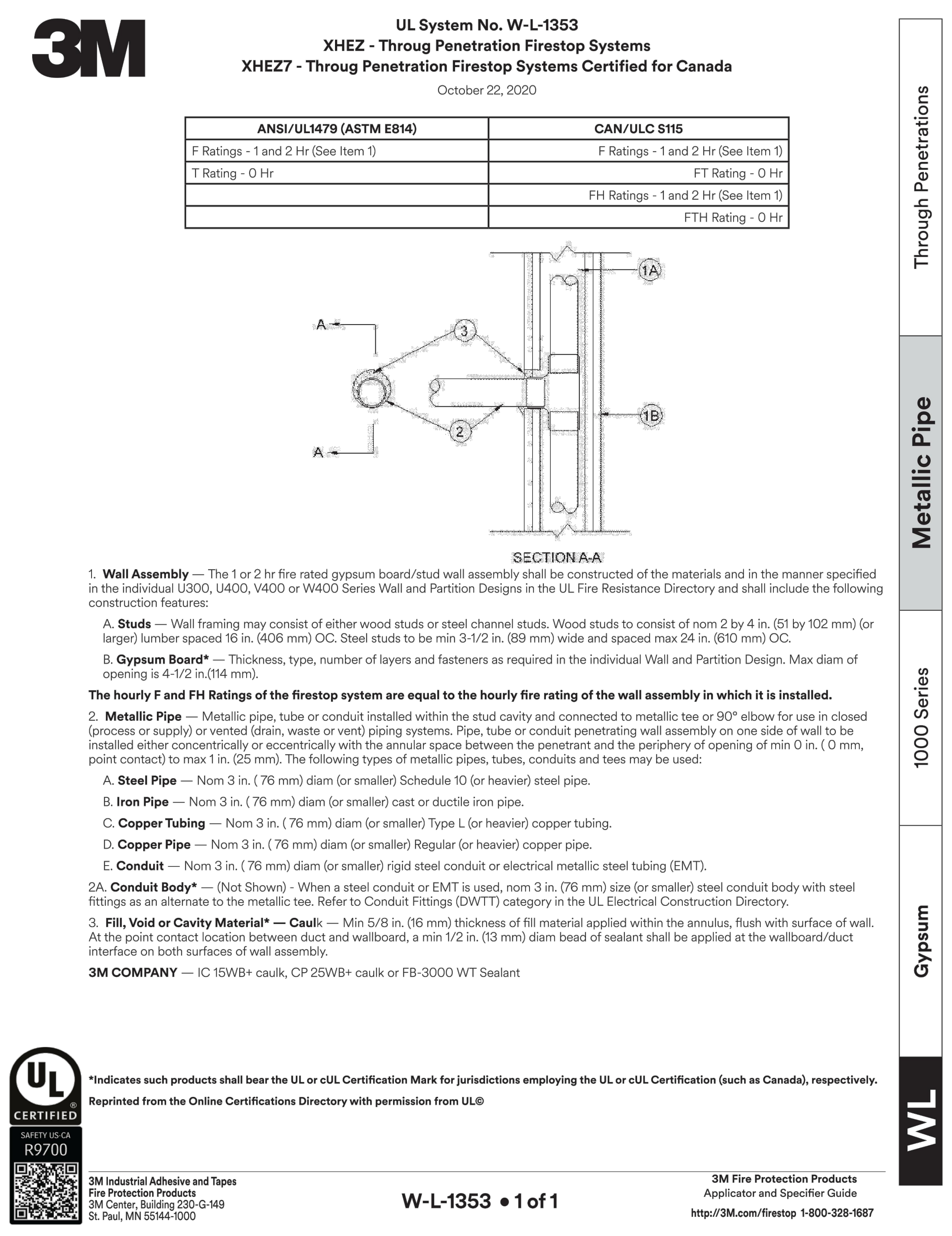
Scale: NONE
Drawn By: LEG
Project Number: 2533
Checked By: DG
Date: 2/9/26
Reviewed By: RC

X/P101

A1 Plumbing Details



Through Penetrations
Metallic Pipe
1000 Series
Gypsum
WL
A
A
3
2
1A
1B
SECTION A-A

UL System No. W-L-1353
XHEZ - Throug Penetration Firestop Systems
XHEZ7 - Throug Penetration Firestop Systems Certified for Canada

October 22, 2020

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Item 1)	F Ratings - 1 and 2 Hr (See Item 1)
T Rating - 0 Hr	FT Rating - 0 Hr
	FH Ratings - 1 and 2 Hr (See Item 1)
	FTH Rating - 0 Hr

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, V400 or W400 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 4-1/2 in.(114 mm).

The hourly F and FH Ratings of the firestop system are 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 or 90° elbow 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 3 in. (76 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   - B. **Iron Pipe** — Nom 3 in. (76 mm) diam (or smaller) cast or ductile iron pipe.
   - C. **Copper Tubing** — Nom 3 in. (76 mm) diam (or smaller) Type L (or heavier) copper tubing.
   - D. **Copper Pipe** — Nom 3 in. (76 mm) diam (or smaller) Regular (or heavier) copper pipe.
   - E. **Conduit** — Nom 3 in. (76 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 3 in. (76 mm) 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

UL CERTIFIED SAFETY US-CA R9700

***Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

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3M Industrial Adhesive and Tapes
Fire Protection Products
3M Center, Building 230-G-149
St. Paul, MN 55144-1000

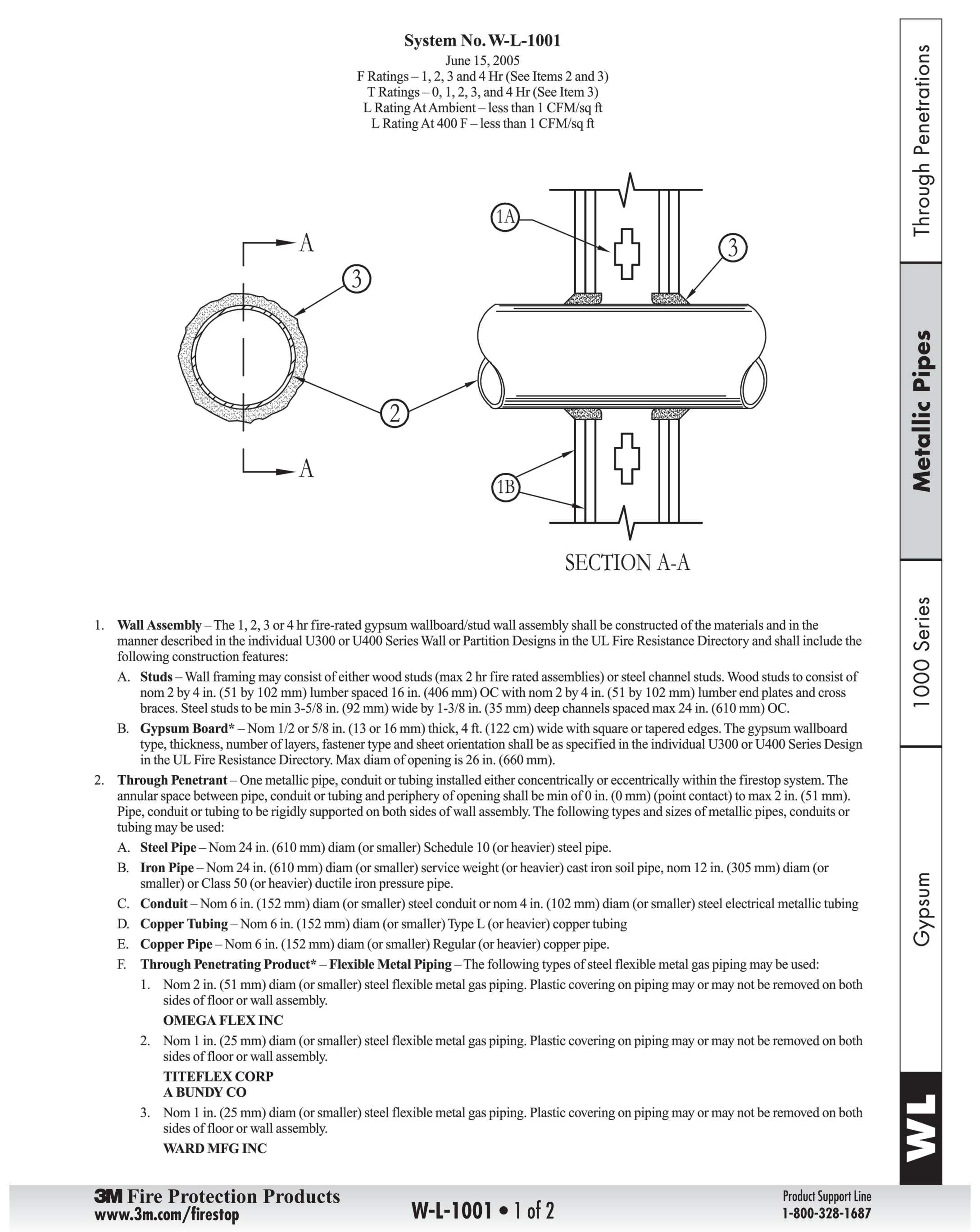
W-L-1353 • 1 of 1

3M Fire Protection Products
Applicator and Specifier Guide
http://3M.com/firestop 1-800-328-1687

FIRE STOP DETAIL

SCALE: NONE

C
X/P102



Through Penetrations
Metallic Pipes
1000 Series
Gypsum
WL
A
A
3
2
1A
3
1B
SECTION A-A

System No. W-L-1001

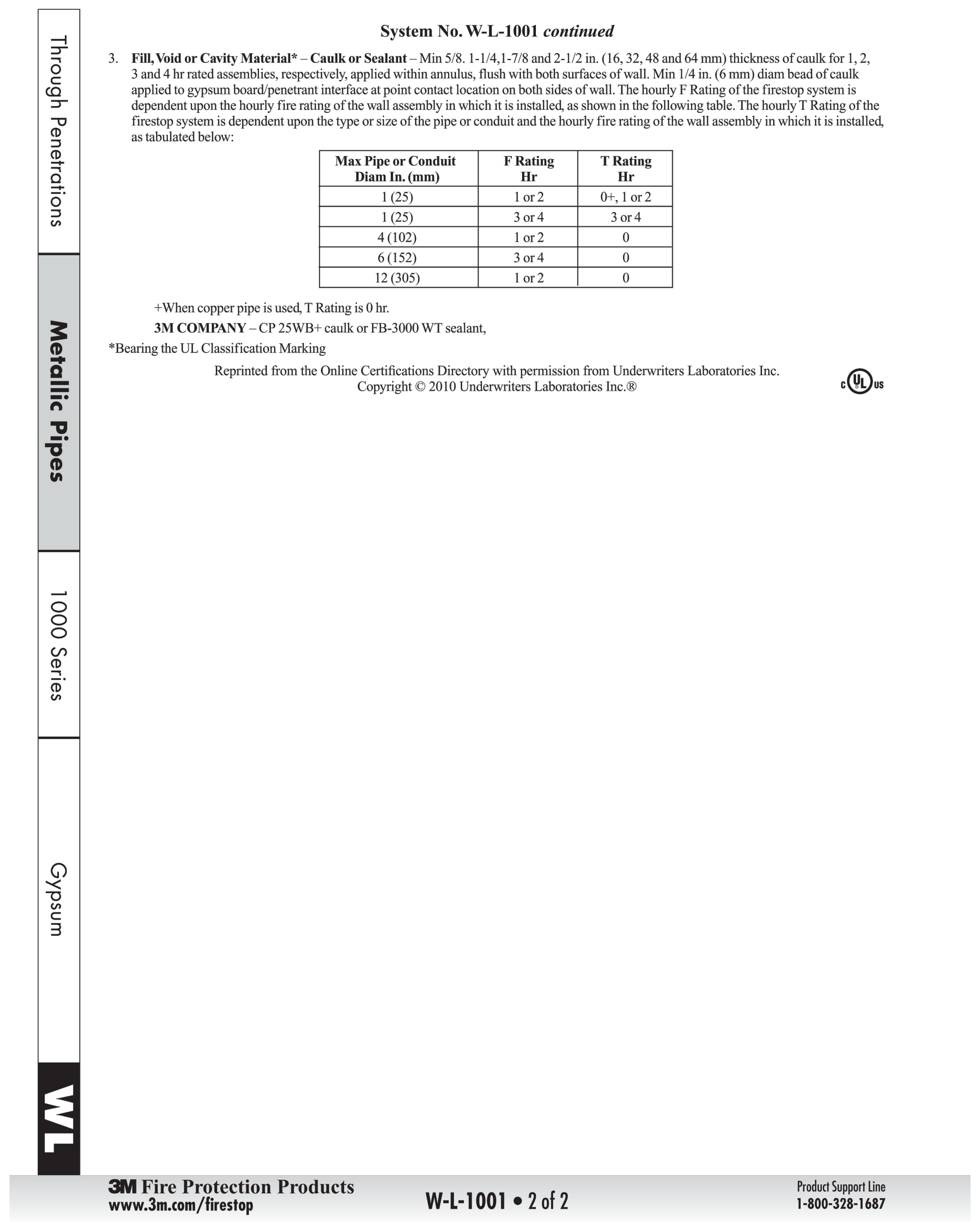
June 15, 2005
F Ratings – 1, 2, 3 and 4 Hr (See Items 2 and 3)
T Ratings – 0, 1, 2, 3, and 4 Hr (See Item 3)
L Rating At Ambient – less than 1 CFM/sq ft
L Rating At 400 F – less than 1 CFM/sq ft

1. **Wall Assembly** – The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or 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 (max 2 hr fire rated assemblies) 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 with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.
   - B. **Gypsum Board*** – Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm).
2. **Through Penetrant** – One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (0 mm) (point contact) to max 2 in. (51 mm). 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 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   - B. **Iron Pipe** – Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
   - C. **Conduit** – Nom 6 in. (152 mm) diam (or smaller) 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.
   - 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.
        TITEFLEX CORP
        A BUNDY CO
     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 INC

3M Fire Protection Products
www.3m.com/firestop

W-L-1001 • 1 of 2

Product Support Line
1-800-328-1687



Through Penetrations
Metallic Pipes
1000 Series
Gypsum
WL

System No. W-L-1001 *continued*

3. **Fill, Void or Cavity Material* – Caulk or Sealant** – Min 5/8. 1-1/4,1-7/8 and 2-1/2 in. (16, 32, 48 and 64 mm) thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, 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. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam In. (mm)	F Rating Hr	T Rating Hr
1 (25)	1 or 2	0+, 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

+When copper pipe is used, T Rating is 0 hr.

3M COMPANY – CP 25WB+ caulk or FB-3000 WT sealant,

*Bearing the UL Classification Marking

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c UL us

3M Fire Protection Products
www.3m.com/firestop

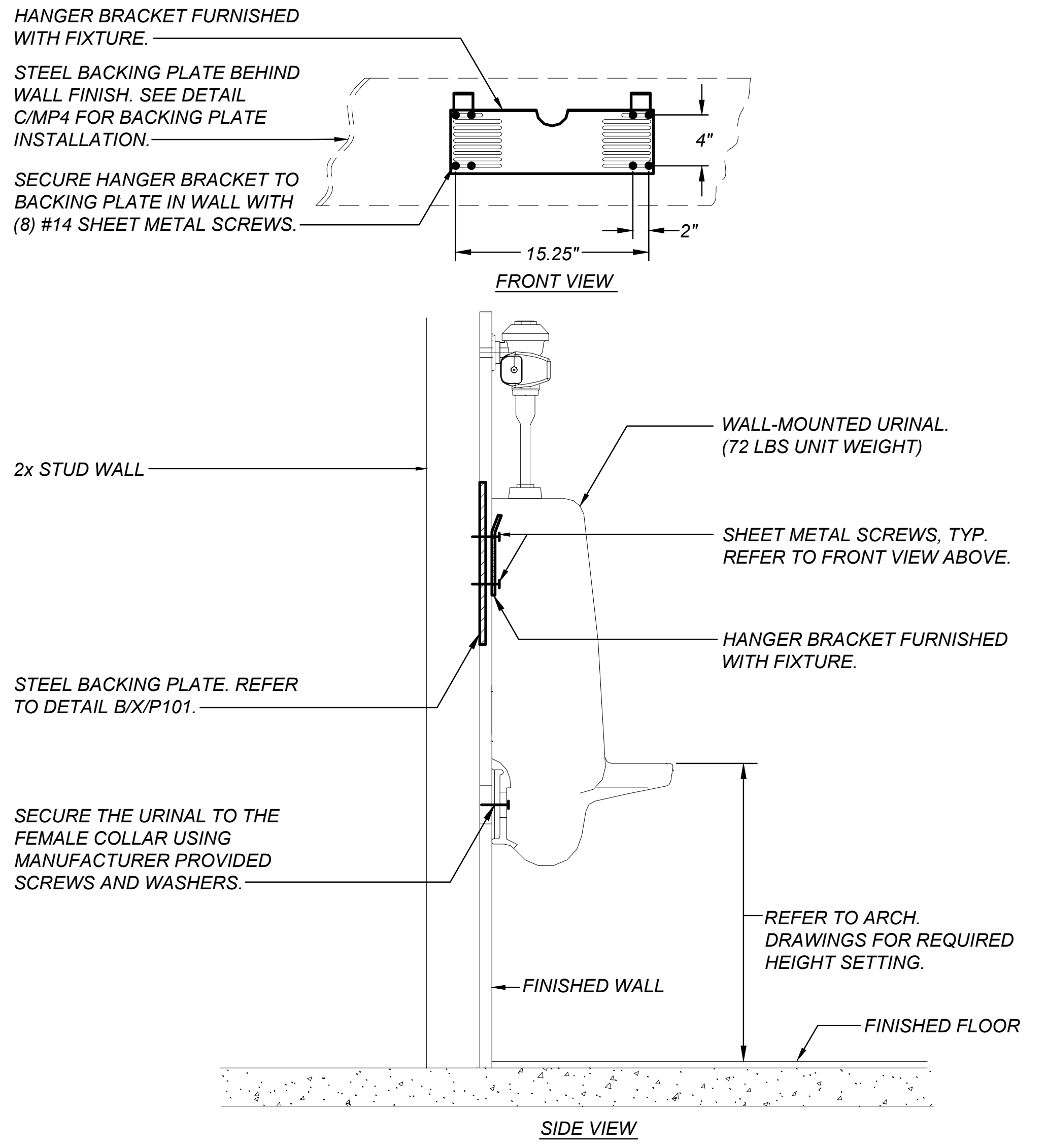
W-L-1001 • 2 of 2

Product Support Line
1-800-328-1687

FIRE STOP DETAIL

SCALE: NONE

B
X/P102

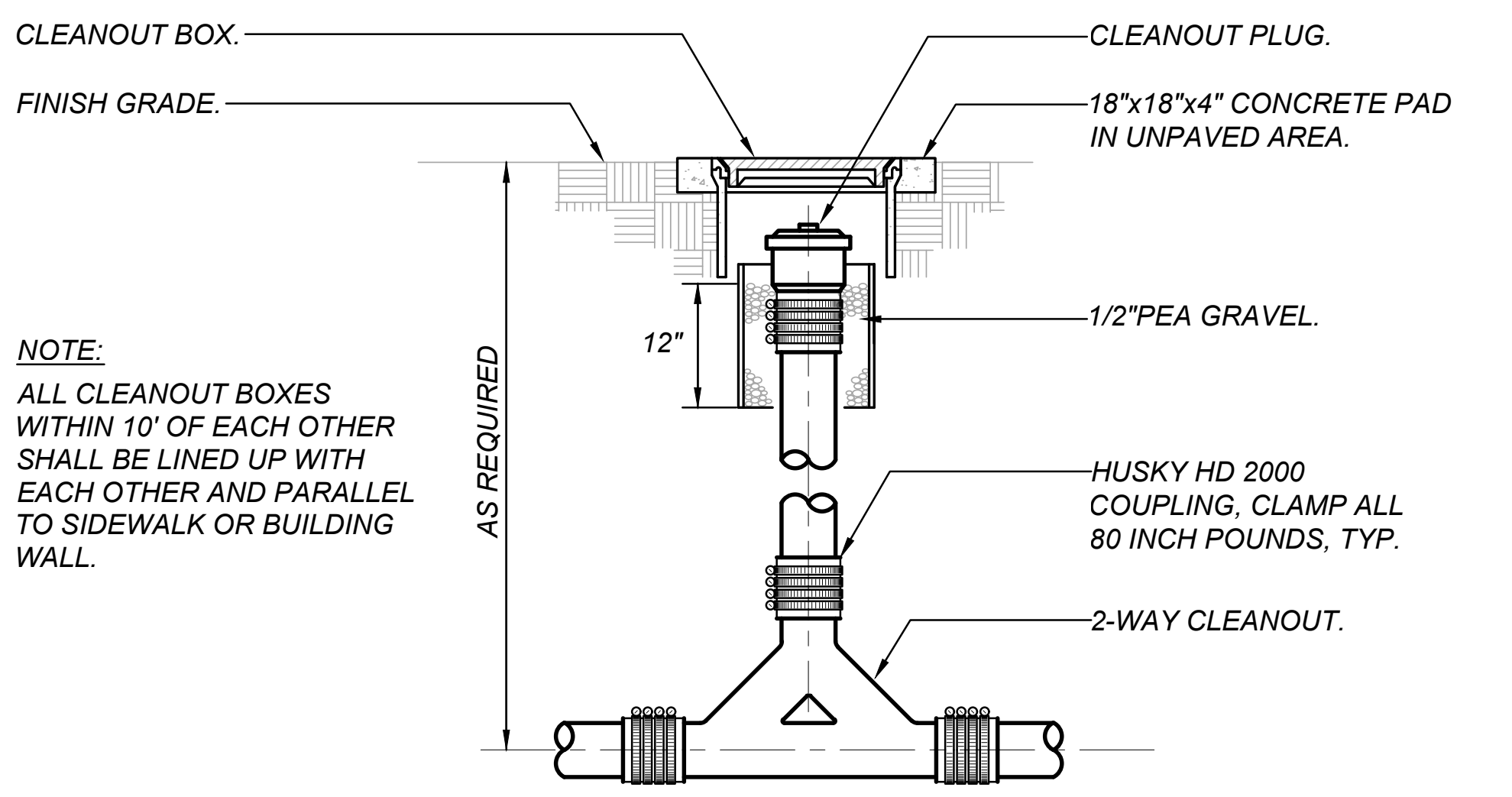


HANGER BRACKET FURNISHED WITH FIXTURE.
STEEL BACKING PLATE BEHIND WALL FINISH. SEE DETAIL C/MP4 FOR BACKING PLATE INSTALLATION.
SECURE HANGER BRACKET TO BACKING PLATE IN WALL WITH (8) #14 SHEET METAL SCREWS.
4"
2"
15.25"
FRONT VIEW
2x STUD WALL
WALL-MOUNTED URINAL. (72 LBS UNIT WEIGHT)
SHEET METAL SCREWS, TYP. REFER TO FRONT VIEW ABOVE.
HANGER BRACKET FURNISHED WITH FIXTURE.
STEEL BACKING PLATE. REFER TO DETAIL B/X/P101.
SECURE THE URINAL TO THE FEMALE COLLAR USING MANUFACTURER PROVIDED SCREWS AND WASHERS.
REFER TO ARCH. DRAWINGS FOR REQUIRED HEIGHT SETTING.
FINISHED WALL
FINISHED FLOOR
SIDE VIEW

URINAL SUPPORT DETAIL

SCALE: NONE

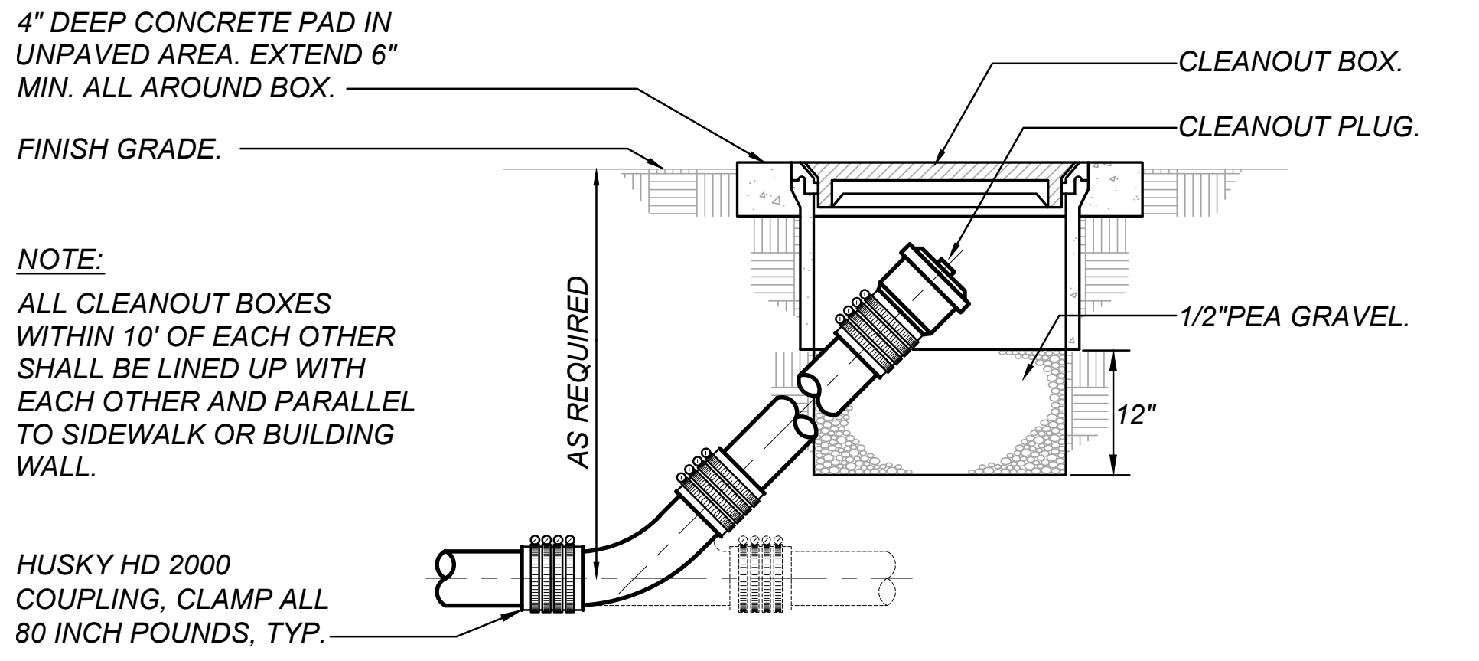
A
X/P102



CLEANOUT BOX.
FINISH GRADE.
CLEANOUT PLUG.
18"x18"x4" CONCRETE PAD IN UNPAVED AREA.
12"
1/2"PEA GRAVEL.
AS REQUIRED
HUSKY HD 2000 COUPLING, CLAMP ALL 80 INCH POUNDS, TYP.
2-WAY CLEANOUT.

NOTE:
ALL CLEANOUT BOXES WITHIN 10' OF EACH OTHER SHALL BE LINED UP WITH EACH OTHER AND PARALLEL TO SIDEWALK OR BUILDING WALL.

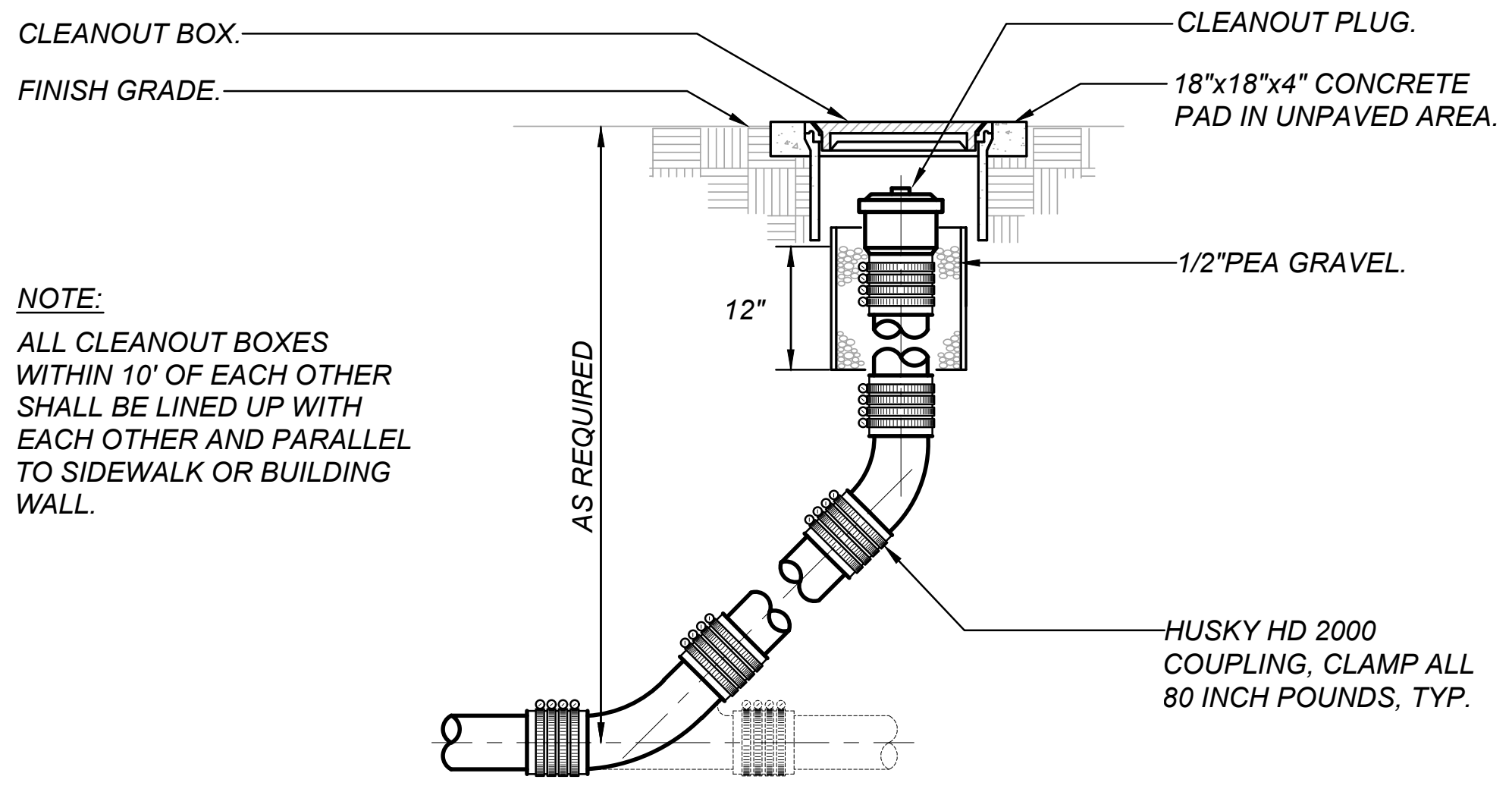
2-WAY SURFACE CLEANOUT DETAIL (OPTION 2)



4" DEEP CONCRETE PAD IN UNPAVED AREA. EXTEND 6" MIN. ALL AROUND BOX.
FINISH GRADE.
CLEANOUT BOX.
CLEANOUT PLUG.
1/2"PEA GRAVEL.
12"
AS REQUIRED
HUSKY HD 2000 COUPLING, CLAMP ALL 80 INCH POUNDS, TYP.

NOTE:
ALL CLEANOUT BOXES WITHIN 10' OF EACH OTHER SHALL BE LINED UP WITH EACH OTHER AND PARALLEL TO SIDEWALK OR BUILDING WALL.

CLEANOUT TO GRADE DETAIL (OPTION 1)



CLEANOUT BOX.
FINISH GRADE.
CLEANOUT PLUG.
18"x18"x4" CONCRETE PAD IN UNPAVED AREA.
1/2"PEA GRAVEL.
12"
AS REQUIRED
HUSKY HD 2000 COUPLING, CLAMP ALL 80 INCH POUNDS, TYP.

NOTE:
ALL CLEANOUT BOXES WITHIN 10' OF EACH OTHER SHALL BE LINED UP WITH EACH OTHER AND PARALLEL TO SIDEWALK OR BUILDING WALL.

CLEANOUT TO GRADE DETAIL (OPTION 2)

HUSKY HD 2000 COUPLING REQUIREMENTS

SIZE	WIDTH	NO. OF STRAPS	TORQUE
1.5" - 4"	3.0	4	80
5" & 6"	4.0	6	80
8" & 10"	4.0	6	80

CLEANOUT TO GRADE DETAILS

SCALE: NONE

P117

D
X/P102

A1 Plumbing Details

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

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RYAN W. CARLSON
No. M34846
Exp. 6-30-26

Community Day School Modernization
Merced City Unified School District
Merced, CA, 95340

Project

TYPICAL INFORMATION
PLUMBING DETAILS

Drawing

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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

	Designed By: DG	Copyright 2026 Darden Architects
Scale:	Drawn By: LEG	X/P102
Project Number: 2533	Checked By: DG	
Date: 2/9/26	Reviewed By: RC	

PLUMBING FIXTURE AND EQUIPMENT SCHEDULE

MARK	FIXTURE	CONNECTION SIZES S or W	V	CW	HW	DESCRIPTION
SS-1	SERVICE SINK	3"	2"	3/4"	3/4"	**KOHLER "BANNON" #K-6718** 22-1/4"x18-1/4"x8-1/2", SINGLE RECTANGULAR BASIN, ACID RESISTANT ENAMELED CAST IRON FINSH, RIM GUARD, BLANK BACK, **KOHLER #K-9142-CP** 2" STAINLESS STEEL STRAINER **KOHLER #K-6772** 2" TRAP IRON PIPE **CHICAGO #897-CP** WALL MOUNTED POLISHED CHROME PLATED FAUCET WITH INTEGRAL SUPPLY STOPS, WITH ATMOSPHERIC VACUUM BREAKER ASSEMBLY
FD-1	FLOOR DRAIN	2"	1-1/2"	1/2"	-	**JAY R. SMITH #2005-P050-BHP** (OR MIFAB OR ZURN EQUAL) DUCO CAST IRON BODY WITH 5" SQUARE NICKEL BRONZE STRAINER AND TRAP PRIMER CONNECTION. NOTE: CONFIRM WITH OWNER/ARCHITECT ON FINISH MATERIAL IN RESTROOMS.
HB-1	HOSE BIBB (INTERIOR)	-	-	3/4"	-	**WOODFORD #24-PC** (OR MIFAB EQUAL), OPTIONAL POLISHED CHROME WALL HOSE VALVE WITH LOCKSHIELD, NON-REMOVEABLE VACUUM BREAKER, AND OPTIONAL TEE KEY HANDLE.
SA-1	SHOCK ARRESTOR	-	-	-	-	**SIOUX CHIEF "HYDRA-RESTER" #653-B,** SEAMLESS COPPER CHAMBER APPROVED FOR CONCEALED INSTALLATION. P.D.I. SYMBOL "B" FOR UP TO 32 FIXTURE UNITS. INSTALL IN UPWARD POSITION.
TET-1	THERMAL EXPANSION TANK	-	-	1/2"	-	**AMTROL "THERM-X-TROL" #ST-5C-DD, 2.0** GALLON TANK VOLUME, ASME CONSTRUCTION, 150 PSI MAX. WORKING PRESSURE, HEAVY DUTY BUTYL NSF/ANSI 61, ANTIMICROBIAL POLYPROPYLENE WITH ANTI-LEGIONELLA PROTECTION, STAINLESS STEEL SYSTEM CONNECTION, CHARGING VALVE WITH EPDM SEAT, FACTORY PRE-CHARGE 55 PSIG. REFER TO DETAIL G/X/P101.
TP-1	TRAP PRIMER	-	-	3/4"	-	**PRECISION PLUMBING PRODUCTS "PRIME-RITE" #PR-500** PRESSURE DROP ACTIVATED (3 PSI) TRAP PRIMER, INTEGRAL VACUUM BREAKER. PROVIDE #DU SERIES DISTRIBUTION OUTLET FOR TWO OR MORE DRAINS. PROVIDE WITH BALL VALVE ON INLET. (1-4) OUTLETS REFER TO DETAIL L/X/P101 FOR MOUNTING HEIGHT.

WATER HEATER SCHEDULE

MARK	ITEM	LOCATION	STORAGE (GAL)	BTUH INPUT (NAT. GAS)	GPH RECOVERY	DESCRIPTION	ELECTRICAL REQUIREMENTS KW	VOLTS	PHASE	CONNECT TO BMS YES/NO	OPR. WT. LBS.	NOTES
EWH-1	ELECTRIC WATER HEATER	CUSTODIAN	10	(ELEC.)	20.0 (80°F TEMP. RISE)	**AO SMITH #DEL-10,** 10 GALLON GLASSLINED TANK, ASME T&P RELIEF VALVE, ***NON-SIMULTANEOUS ELEMENT OPERATION.** UEF: .N/A	4.0	208	3	NO	138	1
IWH-1	INSTANTANEOUS WATER HEATER	STAFF RESTROOMS	-	(ELEC.)	-	**CHRONOMITE #CMI-30L-2095-1-NPT08** IN-WALL MOUNTED INSTANTANEOUS TYPE WITH MIRCO-PROCESSOR SET FOR **110°F** WITH ACCESS PANEL **#Z-C1616D**. INTEGRATED THERMOSTATIC MIXING VALVE MEETING ASSE 1069 AND ASSE 1070 COMPLIANCY. FIXED OUTLET TEMPERATURE AT 0.5 GPM FLOW RATE. 49°F TEMP RISE. 1/2" MALE NPT CONNECTIONS, ROTARY 40A LOCKABLE DISCONNECT SWITCH - NEMA 4X, FURNISHED LOOSE AND INSTALLED BY SPEC. DIV. 22.	3.6	120	1	NO	30	2

NOTES:
1. REFER TO DETAIL G/X/P101.
2. REFER TO DETAIL E/X/P101

PLUMBING FIXTURE AND EQUIPMENT SCHEDULE

MARK	FIXTURE	CONNECTION SIZES S or W	V	CW	HW	DESCRIPTION
WC-1 ♿	WATER CLOSET (ADA)	4"	2"	1-1/2"	-	**PROFLO #PF1723WH**, +17-1/8" ELONGATED FLOOR MOUNT, 1.28 GPF, **PROFLO #PFTSCOF2000WH** OPEN-FRONT WHITE SEAT WITH CHECK STAINLESS STEEL HINGE POSTS AND FASTENERS AND SELF-SUSTAINING HINGES, LESS COVER, BOLT CAPS, **ZURN #Z6200-HET** METROFLUSH HIGH EFFICIENCY PISTON FLUSH VALVE WITH LEVER HANDLE, (1.28 GALLONS/FLUSH), MOUNT FLUSH VALVE HANDLE ON WIDE SIDE OF STALL OR ROOM. CBC ACCESS COMPLIANT (+18" TO TOP OF SEAT) REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHT.
WC-2 ♿	WATER CLOSET	4"	2"	1-1/2"	-	**PROFLO #PF1721WH**, +14-3/8" ELONGATED ELONGATED FLOOR MOUNT, 1.28 GPF, **PROFLO #PFTSCOF2000WH** OPEN-FRONT WHITE SEAT WITH CHECK STAINLESS STEEL HINGE POSTS AND FASTENERS AND SELF-SUSTAINING HINGES, LESS COVER, BOLT CAPS, **ZURN #Z6200-HET** METROFLUSH HIGH EFFICIENCY PISTON FLUSH VALVE WITH LEVER HANDLE, (1.28 GALLONS/FLUSH), MOUNT FLUSH VALVE HANDLE ON WIDE SIDE OF STALL OR ROOM. CBC ACCESS COMPLIANT REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHT.
L-1 ♿	LAVATORY (ADA)	1-1/2"	1-1/2"	1/2"	-	**PROFLO WALL-HUNG #PF5511WH** 20"x18" SINGLE HOLE, WITH BACK SPLASH AND WALL BRACKET ADA COMPLIANT. **McGUIRE #155A** GRID DRAIN. **CHICAGO #333-765E39VPSHABCP** DECK-MOUNTED SINGLE SUPPLY SELF CLOSING METERING FAUCET WITH 0.35 GPM, ECONO-FLO NON-AERATING OUTLET, ADJUST FAUCET TO STAY OPEN FOR 10-15 SECONDS. PROVIDE 2"WCO. **JAY R. SMITH #723** WALL MOUNTED LAVATORY SUPPORT. REFER TO PLUMBING DETAIL A/X/P101 REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHT.
L-2 ♿	LAVATORY (ADA)	2"	1-1/2"	1/2"	1/2"	**PROFLO WALL-HUNG #PF5514WH** 20"x18", THREE FAUCET HOLES, 4" CENTERS, WITH BACK SPLASH AND WALL BRACKET ADA COMPLIANT. **McGUIRE #155A** GRID DRAIN. **CHICAGO #3502-4E39VPABCP** CHROME PLATED DECK-MOUNTED 4" CENTERS DUAL SUPPLY SELF CLOSING METERING FAUCET WITH 0.50 GPM, ECONO-FLO NON-AERATING LAMINAR SPRAY, WITH USER-ADJUSTABLE TEMP CPNTROL MIXER, ADJUST FAUCET TO STAY OPEN FOR 10-15 SECONDS. PROVIDE 2"WCO. **LEONARD #170A-LF-CP** CHROME PLATED THERMOSTATIC MIXING VALVE WITH MOUNTING BRACKET, ASSE 1070 **JAY R. SMITH #723** WALL MOUNTED LAVATORY SUPPORT. REFER TO PLUMBING DETAIL A/X/P101 REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHT.
UR-1 ♿	URINAL (ADA)	2"	2"	3/4"	-	**PROFLO #PF1825PTAWH**, ACCESSIBLE WALL MOUNTED URINAL, WITH STAINLESS STEEL STRAINER. **“ZURN” #Z6003AV-ULF** AQUAVANTAGE DIAPHRAGM FLUSH VALVE, (0.125 GALLONS/FLUSH) REFER TO WALL MOUNTED URINAL SUPPORT DETAIL A/X/P102. ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS, ACCESSIBLE MOUNTING HEIGHT SHALL BE 17” AFF TO LIP, FLUSH VALVE HEIGHT TO MEET ADA REQUIREMENT NOT EXCEEDING 44" MAX, SEE ARCHITECTURAL DRAWINGS FOR STANDARD MOUNTING HEIGHTS.
S-1 ♿	CLASSROOM SINK (ADA)	2"	2"	1/2"	-	**JUST #CRB-ADA-2022A45-J-LM (OR ELKAY EQUAL)**, 22"x19-1/2"x4-1/2" SINGLE COMPARTMENT 18 GAUGE 304 STAINLESS STEEL WITH BACK AND RIGHT FAUCET DECKS, 4" CENTERS, CENTER DRAIN PLACEMENT. **#J-ADA-35** 1-1/2" OFFSET DRAIN WITH STRAINER. **CHICAGO "ECAST" #350-E35-317XKABCP** (OR T&S BRASS OR ZURN EQUAL) MANUAL SINGLE SUPPLY GOOSENECK FAUCET, 5-1/4" SWING GOOSENECK SPOUT, SOFTFLO AERATOR 1.5 GPM, VANDAL PROOF 4" WRISTBLADE HANDLE **CHICAGO #748-765ABCP** DRINKING BUBBLER AT RIGHT FRONT REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

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Exp. 6-30-26

Community Day School Modernization
Merced City Unified School District
Merced, CA, 95340
Project

TYPICAL INFORMATION
PLUMBING SCHEDULES
Drawing

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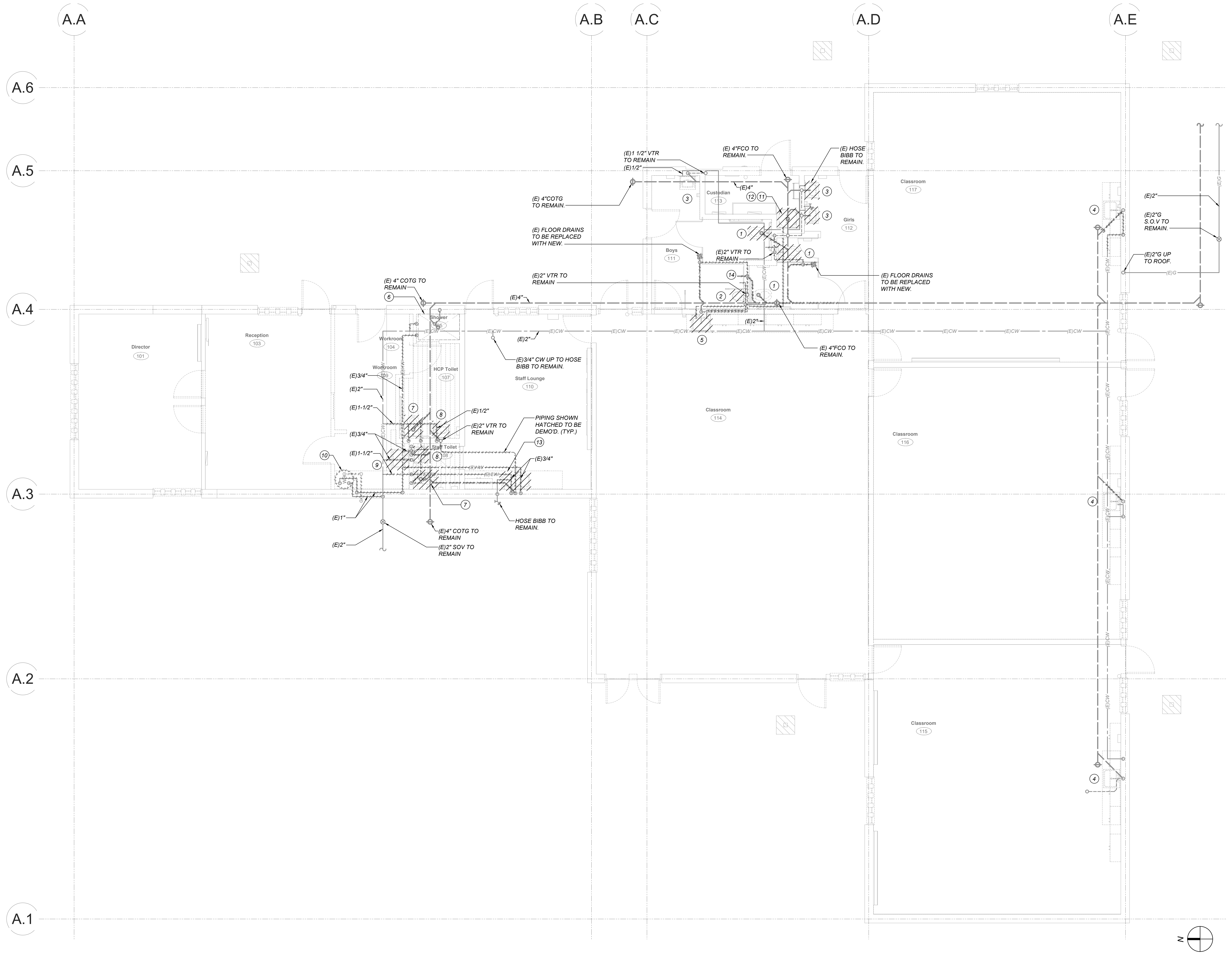
No.	Revision/Submission	Date

Revision

	Designed By: DG	
Scale: NONE	Drawn By: LEG	*X/P201*
Project Number: 2533	Checked By: DG	
Date: 2/9/26	Reviewed By: RC	

A1 Plumbing Schedules

6 February 2026 12:20 PM P:\2025\25087 Merced Community Day School Modernization\4-Drawings\5 P\XP201 PLUMBING SCHEDULES.dwg dominic



DSA File No.:
24-35

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KEYNOTES: (THIS SHEET ONLY)

① *DEMO AND REMOVE (E) WATER CLOSET & ROUGH-IN FOR INSTALL OF (N) WATER CLOSET. REFER TO SHEET A/P201 FOR NEW PLUMBING FIXTURE MARK, TYP. SAWCUT, REMOVE, AND PATCH BACK FLOOR AS REQUIRED.*

② *DEMO AND REMOVE (E) URINAL AND ALL ASSOCIATED PIPING. CAP SEWER, VENT, AND COLD WATER TO NEAREST MAIN. SAWCUT, REMOVE, AND PATCH BACK FLOOR AS REQUIRED.*

③ *DEMO AND REMOVE (E) LAVATORY. PREPARE (E) PIPING FOR INSTALL OF (N) LAVATORY. REFER TO SHEET A/P201 FOR NEW PLUMBING FIXTURE MARK, TYP.*

④ *DEMO AND REMOVE (E) SINK. ROUGH-IN FOR INSTALL OF (N) CLASSROOM SINK. REFER TO SHEET A/P201 FOR NEW PLUMBING FIXTURE MARK, TYP. SAWCUT, REMOVE, AND PATCH BACK FLOOR AS REQUIRED.*

⑤ *DEMO AND REMOVE (E) SINK. REMOVE UNUSED HOT WATER PIPING. ROUGH-IN FOR INSTALL OF (N) CLASSROOM SINK. REFER TO SHEET A/P201 FOR NEW PLUMBING FIXTURE MARK, TYP.*

⑥ *DEMO AND REMOVE (E) SHOWER AND ALL ASSOCIATED PIPING. CAP SEWER AND COLD WATER TO NEAREST MAIN. SAWCUT, REMOVE, AND PATCH BACK FLOOR AS REQUIRED.*

⑦ *DEMO AND REMOVE (E) WATER CLOSET AND ALL ASSOCIATED PIPING. CAP SEWER AND COLD WATER TO NEAREST MAIN. SAWCUT, REMOVE, AND PATCH BACK FLOOR AS REQUIRED.*

⑧ *DEMO AND REMOVE (E) LAVATORY AND ALL ASSOCIATED PIPING. CAP SEWER, VENT, AND COLD WATER TO NEAREST MAIN. SAWCUT, REMOVE, AND PATCH BACK FLOOR AS REQUIRED.*

⑨ *DEMO AND REMOVE (E) SINK AND ALL ASSOCIATED PIPING. CAP SEWER, VENT, AND COLD WATER TO NEAREST MAIN. SAWCUT, REMOVE, AND PATCH BACK FLOOR AS REQUIRED.*

⑩ *DEMO AND REMOVE (E) ELECTRIC WATER HEATER AND ALL ASSOCIATED PIPING.*

⑪ *DEMO AND REMOVE (E) ELECTRIC WATER HEATER AND ASSOCIATED PIPING, DISCONNECT AND PREPARE EXISTING CW PIPING FOR INSTALLATION OF NEW ELECTRIC WATER HEATER.*

⑫ *(E) SERVICE SINK TO BE REMOVED, PREPARE EXISTING SEWER, VENT, CW PIPING FOR INSTALLATION OF NEW SERVICE SINK.SAWCUT, REMOVE, AND PATCH BACK FLOOR AS REQUIRED.*

⑬ *DEMO AND REMOVE (E) SINK AND ALL ASSOCIATED PIPING. CAP SEWER, VENT, AND COLD WATER TO NEAREST MAIN.SAWCUT, REMOVE, AND PATCH BACK FLOOR AS REQUIRED.*

⑭ *DEMO AND REMOVE EXISTING STUB OUT FROM EXISTING FIXTURE. CAP ALL PIPING BEHIND FINISHED SURFACES.SAWCUT, REMOVE, AND PATCH BACK FLOOR AS REQUIRED.*

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Architect

No.	Revision/Submission	Date

Revision

	Designed By: DG	Copyright 2026 Darden Architects
Scale: 1/4" = 1'-0"	Drawn By: LEG	*A/P101*
Project Number: 2533	Checked By: DG	
Date: 2/9/26	Reviewed By: RC	

A1 Plumbing Demolition Plan
1/4" = 1'-0"

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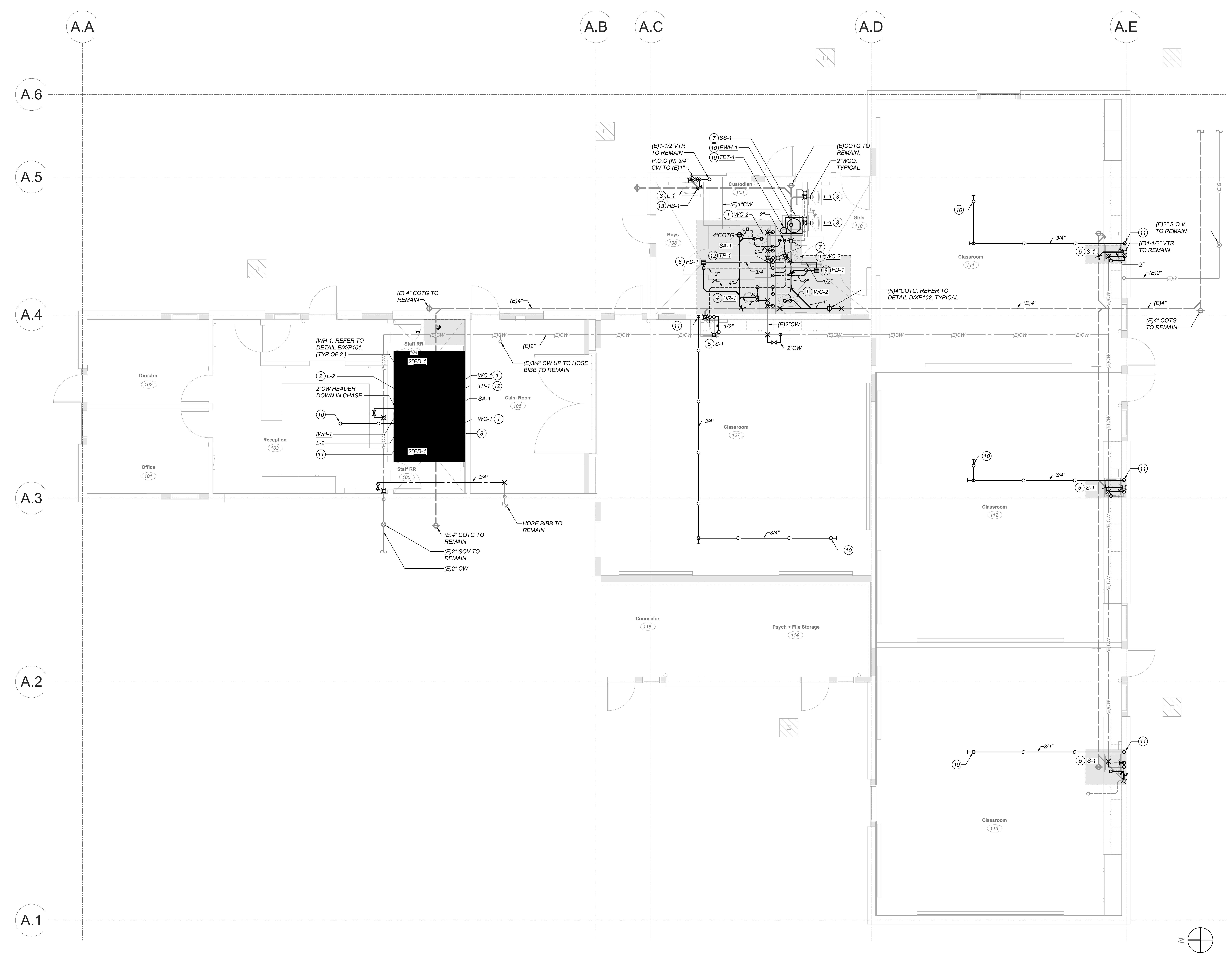

KEYNOTES: (THIS SHEET ONLY)

① WC-1, WC-2, PROVIDE (N) ROUGH-IN AND (N) 1-1/2" CW, 2"V, 4"S AT EACH WATER CLOSET. SAWCUT, REMOVE, AND PATCH BACK FLOOR AS REQUIRED.

② L-2, PROVIDE (N) ROUGH-IN AND (N) 1/2"CW, 1/2"HW, 2"W, AND 2"V. PROVIDE 2" WCO. REFER TO J/X/P101 FOR WCO DETAIL. SAWCUT, REMOVE, AND PATCH BACK FLOOR AS REQUIRED.

③ L-1, RECONNECT (E) VENT, SEWER AND COLD WATER TO (N) LAVATORY, PROVIDE (N) 2" WCO REFER TO J/X/P101 FOR WCO DETAIL.

④ UR-1, PROVIDE (N) ROUGH-IN AND BACKING PLATE FOR INSTALL OF (N) URINAL. PROVIDE 3/4" CW, 2"V, 2"S, AND 2" WCO, REFER TO J/X/P101 FOR WCO DETAIL. SAWCUT, REMOVE, AND PATCH BACK FLOOR AS REQUIRED.

⑤ S-1, PROVIDE (N) 2"S, 1/2"CW, AND 2"V POINT OF CONNECTIONS TO (N) SINK. (N) CW TO TEE OFF AND EXTEND (N) 1/2" CW TO BUBBLER. PROVIDE 2" WCO, REFER TO J/X/P101 FOR WCO DETAIL. SAWCUT, REMOVE, AND PATCH BACK FLOOR AS REQUIRED.

⑥ SS-1, RECONNECT (E) VENT, COLD WATER AND SEWER TO (N) SERVICE SINK. PROVIDE (N) 3/4" HW CONNECTION TO (N) SERVICE SINK. SAWCUT, REMOVE, AND PATCH BACK FLOOR AS REQUIRED.

⑦ P.O.C. (N) 2"V TO (E) 2"V ABOVE CEILING. FIELD VERIFY LOCATION OF VENT.

⑧ PROVIDE (N) 2"S, 1/2"CW, AND 2" TO FD-1. SAWCUT, REMOVE, AND PATCH BACK FLOOR AS REQUIRED.

⑨ RECONNECT (E) COLD WATER AND (N) P&T RELIEF PIPING TO (N) EWH-1. EXTEND CW PIPING TO TET-1. REFER TO DETAIL G/X/P101 FOR EQUIPMENT PIPING SCHEMATIC IN THIS AREA. REFER TO DETAILS B/X/P102 & C/X/P102 FOR PIPING PENETRATING THRU FIRE RATED WALLS.

⑩ CONDENSATE DRAIN PIPING UP TO MECHANICAL UNIT ON ROOF, TYP.

⑪ 3/4" CD TO TERMINATE INTO LAVATORY TAILPIECE. REFER TO DETAIL H/X/P101.

⑫ 3/4" CW DN. TO TRAP PRIMER.

⑬ PROVIDE 3/4"CW FOR HOSE BIBB INSTALLED AT 12" ABOVE FINISHED FLOOR.

A1
Plumbing Plan
1/4" = 1'-0"

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Scale: 1/4" = 1'-0"	Drawn By: LEG	A/P201
Project Number: 2533	Checked By: DG	
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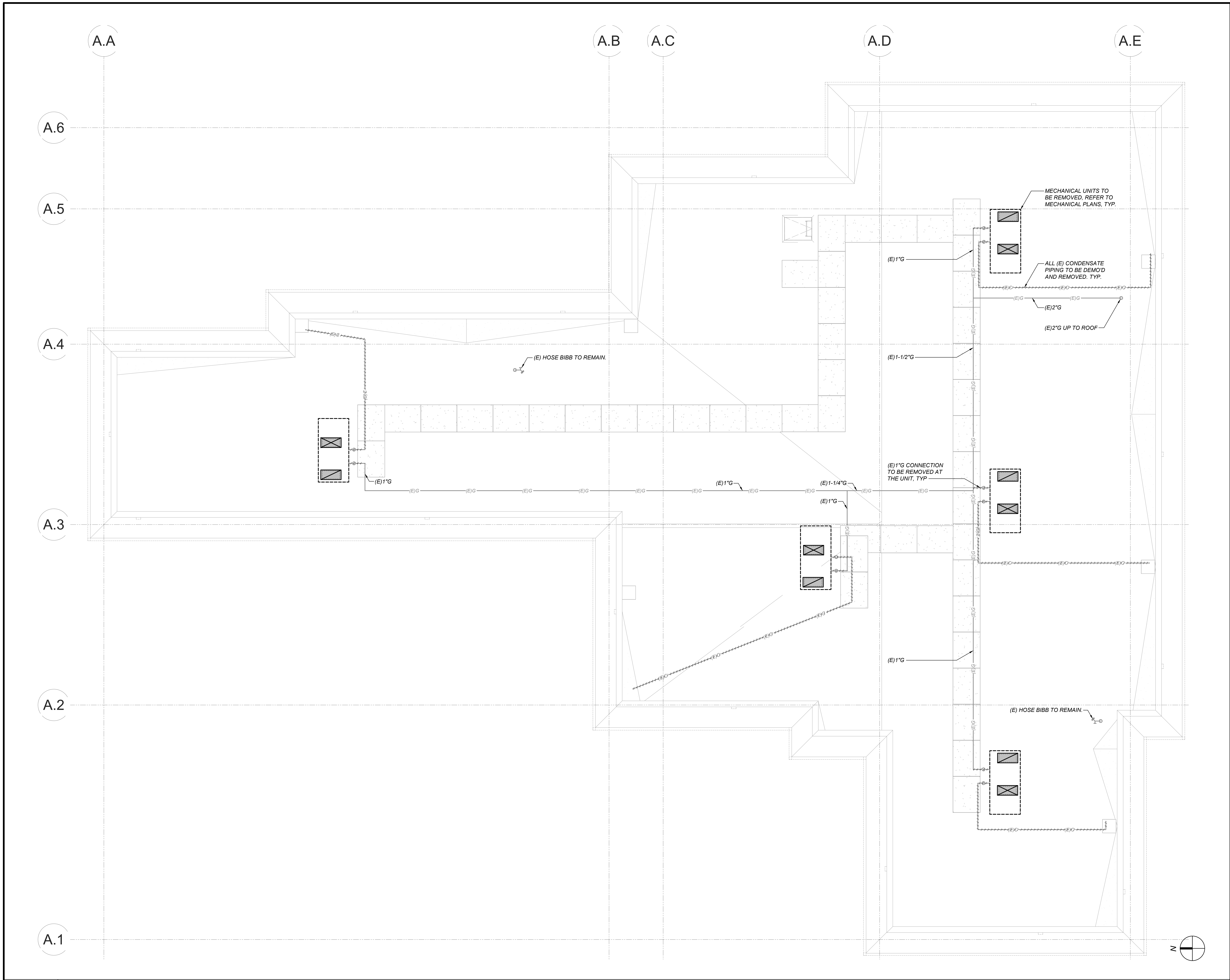
A.A
A.B
A.C
A.D
A.E
A.6
A.5
A.4
A.3
A.2
A.1
MECHANICAL UNITS TO BE REMOVED, REFER TO MECHANICAL PLANS, TYP.
(E)1"G
ALL (E) CONDENSATE PIPING TO BE DEMO'D AND REMOVED. TYP.
(E)2"G
(E)2"G UP TO ROOF
(E)1-1/2"G
(E) HOSE BIBB TO REMAIN.
(E)1"G CONNECTION TO BE REMOVED AT THE UNIT, TYP
(E)1"G
(E)1-1/4"G
(E)1"G
(E)1"G
(E)1"G
(E) HOSE BIBB TO REMAIN.
(E)G
(E)C
N

A1 Plumbing Demolition Roof Plan

1/4" = 1'-0"

DSA File No.:
24-35

DSA Application No.:
02-123716

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A/P301

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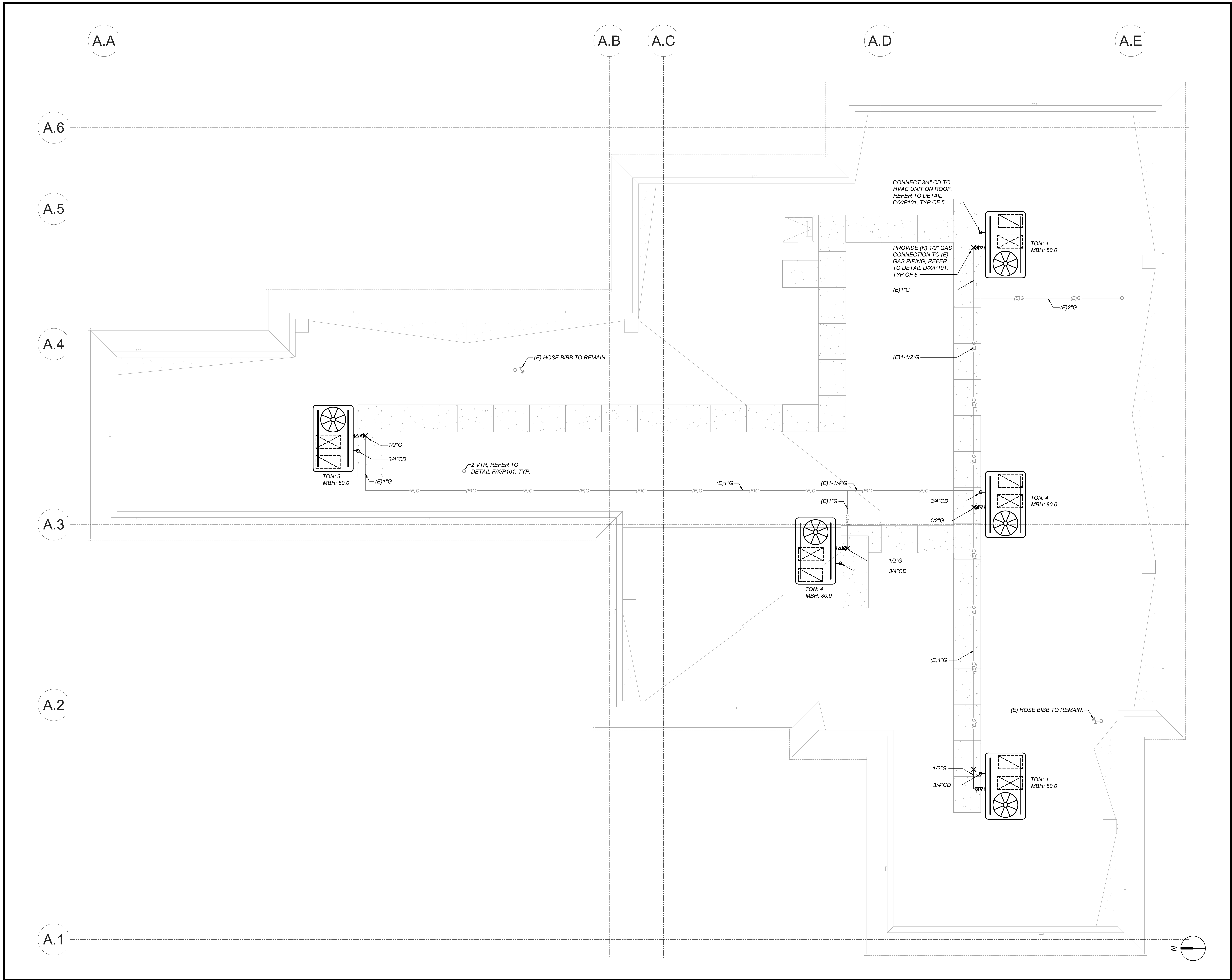

A1 Plumbing Roof Plan

1/4" = 1'-0"

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DSA Application No.:
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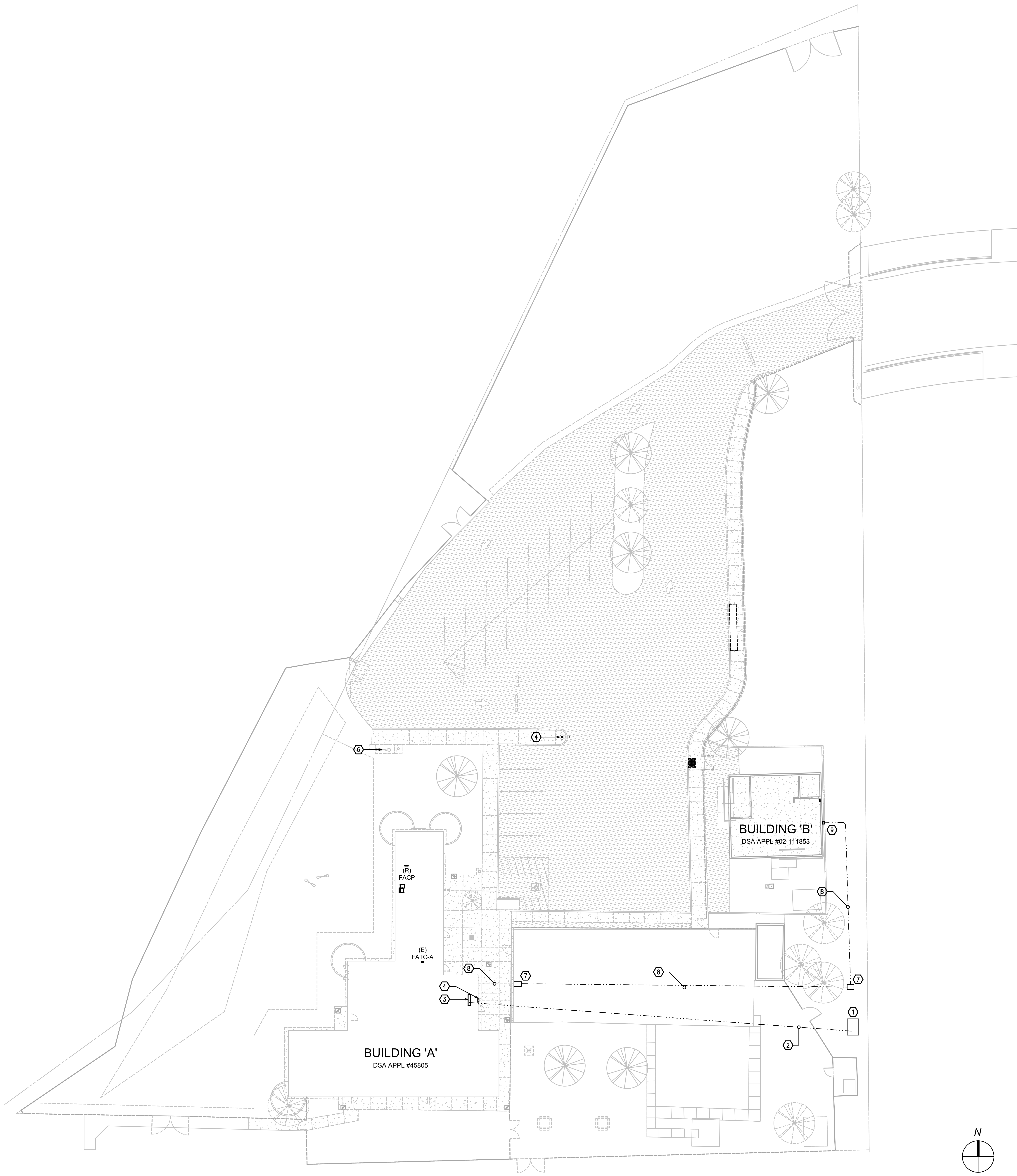
DRAWING KEY NOTES

1. EXISTING PG&E TRANSFORMER PAD TO REMAIN.
2. EXISTING (1)4"C. WITH PG&E SERVICE CONDUCTORS. CONDUIT ROUTE IS AN ASSUMED ROUTE BASED ON OBSERVED CONDITIONS WHICH DIFFER FROM AVAILABLE AS-BUILT PLANS.
3. EXISTING MAIN SWITCHBOARD 'MSB' TO REMAIN. 400A, 120/208V, 3PH, 4W, NEMA 1.
4. EXISTING PANEL 'A' TO REMAIN. 200A, 120/208V, 3PH, 4W, NEMA 1, FLUSH.
5. EXISTING POLE-MOUNTED LIGHT FIXTURE TO BE REMOVED. DEMOLISH EXISTING BASE BELOW GRADE. REMOVE ANY CONDUIT EXPOSED DURING EXCAVATION.
6. DISCONNECT EXISTING FIRE ALARM DEVICES FROM FIRE WATER SERVICE TO BE REPLACED WITH NEW FIRE ALARM CONDUCTORS AND MONITORING DEVICES.
7. EXISTING PULL BOX. VERIFY LOCATION IN FIELD. DSA #02-111853. REMOVE EXISTING FIRE ALARM CABLING.
8. EXISTING (2) 2"C FOR SIGNALS. VERIFY LOCATION IN FIELD. DSA #02-111853. REMOVE EXISTING FIRE ALARM CABLING.
9. EXISTING 18X12X12 FATC-P TO REMAIN. DSA #02-111853. REMOVE EXISTING FIRE ALARM CABLING.



A1 | Site Enlarged Electrical Plan
1" = 10'-0"

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REGISTERED PROFESSIONAL ENGINEER R.J.HARDIN NO. 9125 ELECTRICAL STATE OF CALIFORNIA

Consultant

Community Day School Modernization
Merced City Unified School District
Merced, CA, 95340
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SITE DEVELOPMENT
OVERALL DEMOLITION SITE ELECTRICAL PLAN
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LICENSED ARCHITECT GRANT E. DODSON No. C-20,307 Ren. 6-30-27 STATE OF CALIFORNIA

Grant E. Dodson

Architect

No.	Revision/Submission	Date

Revision

	Designed By: RH	
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Project Number: 2533	Checked By: RH	
Date: 2/9/26	Reviewed By: RH	

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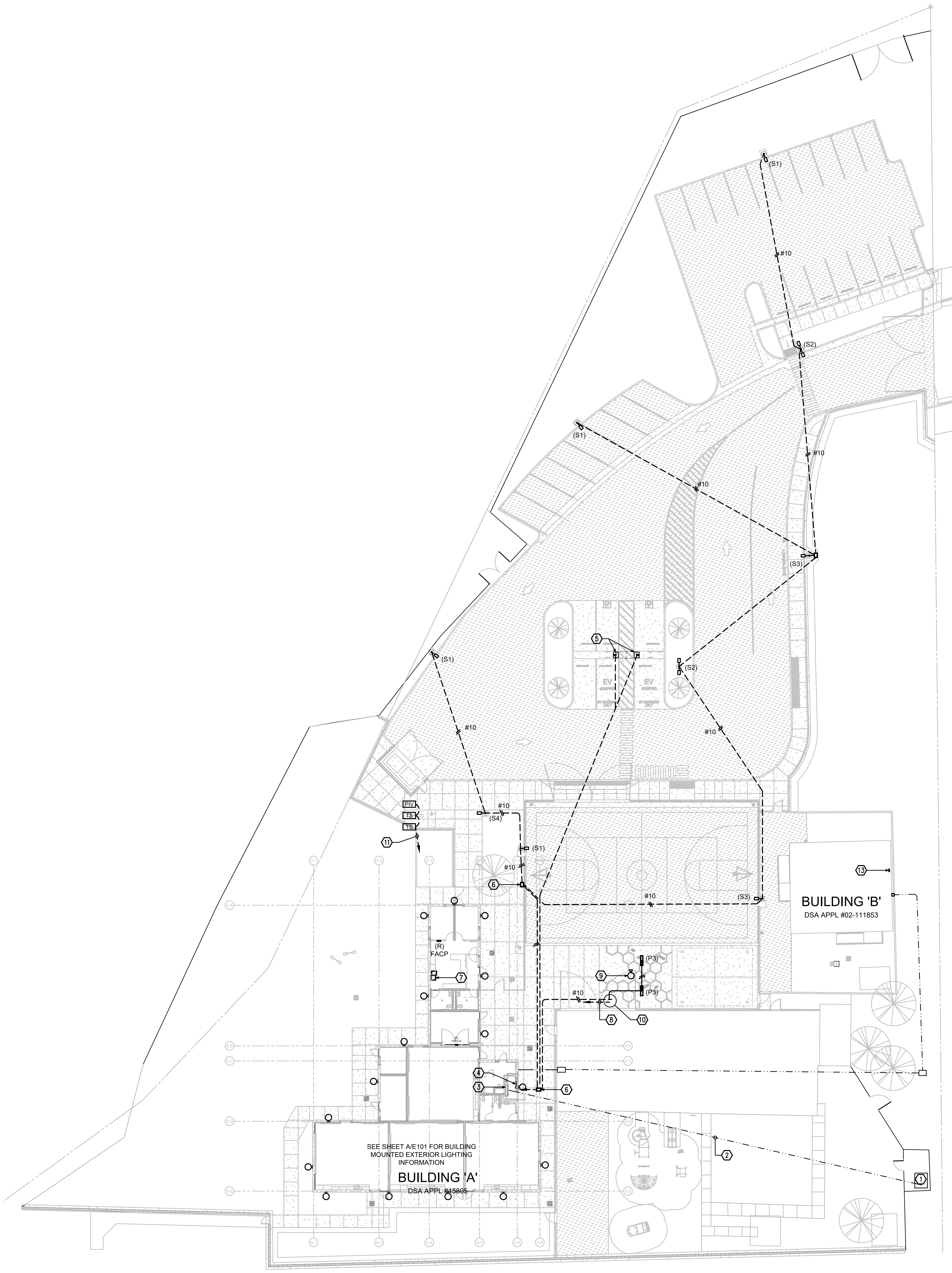

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

DRAWING KEY NOTES

1. EXISTING PG&E TRANSFORMER PAD TO REMAIN. SHOWN FOR REFERENCE.
2. EXISTING (1)4"C. WITH PG&E SERVICE CONDUCTORS TO REMAIN. SHOWN FOR REFERENCE.
3. EXISTING MAIN SWITCHBOARD 'MSB' TO REMAIN. 400A, 120/208V, 3PH, 4W, NEMA 1.
4. EXISTING PANEL 'A' TO REMAIN. 200A, 120/208V, 3PH, 4W, NEMA 1, FLUSH.
5. PROVIDE AND INSTALL NEW 40 AMP SINGLE HANDLE LEVEL 2 EVSE (CHARGEPOINT #CP6011B-50A-L7-CHIP). SEE DETAIL A6/X/E302. PROVIDE 1-1/4"C. 2#4, 1#6 GRD, SEE TYPICAL TRENCH DETAIL M5/X/E303. CHARGER TO BE ORIENTED WITH CLEAR ACCESSIBLE SPACE IN FRONT. CONDUCTORS MAY BE COMBINED INTO A SINGLE CONDUIT AT A PULLBOX BEFORE ENTERING THE BUILDING.
6. PROVIDE AND INSTALL NEW 17" X 10" PULL BOX. CHRISTY #B1017 (BOX), 12" EXTENSION AND LID. INSTALL PER N1/X/E303.
7. EXISTING MDF TO REMAIN.
8. PROVIDE 1"C WITH (1)CAT6 OSP TO MDF. COORDINATE ROUTING OF CONDUIT AND ENTRY POINT INTO BUILDING WITH DISTRICT.
9. POE CCTV CAMERA. COORDINATE EXACT LOCATION WITH DISTRICT PRIOR TO INSTALLATION.
10. ALL CONDUITS ON SHADE STRUCTURE SUPPORT COLUMN/POLE SHALL BE ATTACHED VIA 1 HOLE MALLEABLE IRON STRAP WITH CLAMPBACK. CROUS-HINDS #512 & CB3 OR LIKE EQUAL
11. 1"C. (3)DW TO FATC-A.
12. 1"C. TO PANEL A
    2#10 (VIA 2POLE RELAY PACK, TIME CLOCK CONTROL, POLE LIGHTS) A-
    2#10 (VIA RELAY PACK, TIME CLOCK CONTROL, SHADE STRUCTURE)
13. (N) FIRE ALARM BOOSTER.

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REGISTERED PROFESSIONAL ENGINEER
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ELECTRICAL
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Consultant

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Merced City Unified School District
Merced, CA, 95340

Project

SITE DEVELOPMENT
OVERALL SITE ELECTRICAL PLAN

Drawing

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Architect

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Revision

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Project Number: 2533	Checked By: RH	
Date: 2/9/26	Reviewed By: RH	

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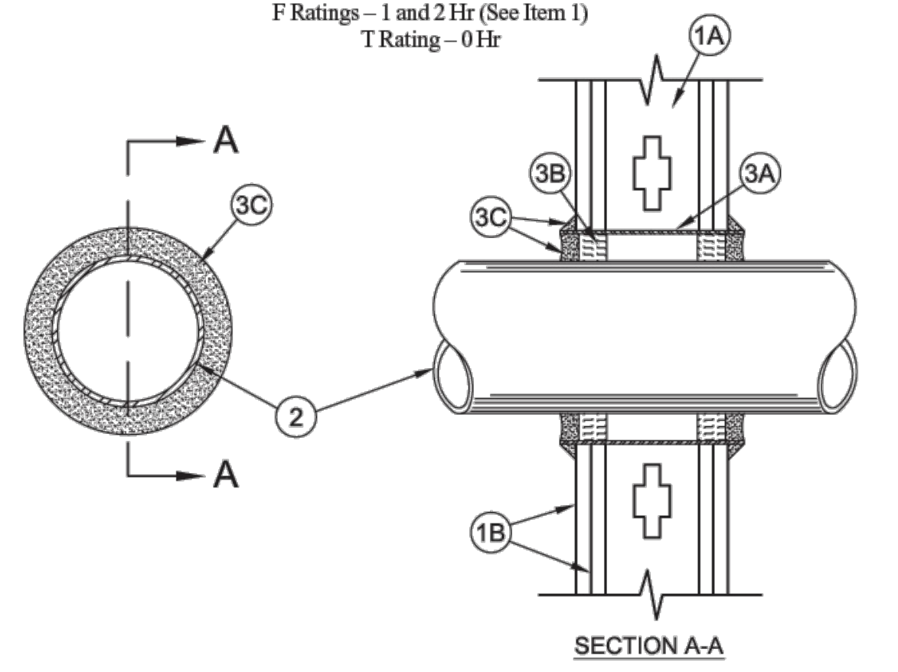
System No. W-L-1003
February 14, 2008
F Ratings – 1 and 2 Hr (See Item 1)
T Rating – 0 Hr



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 with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-1/2 in. (89 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.
   - B. **Gypsum Board*** – Nom 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 15 in. (381 mm).

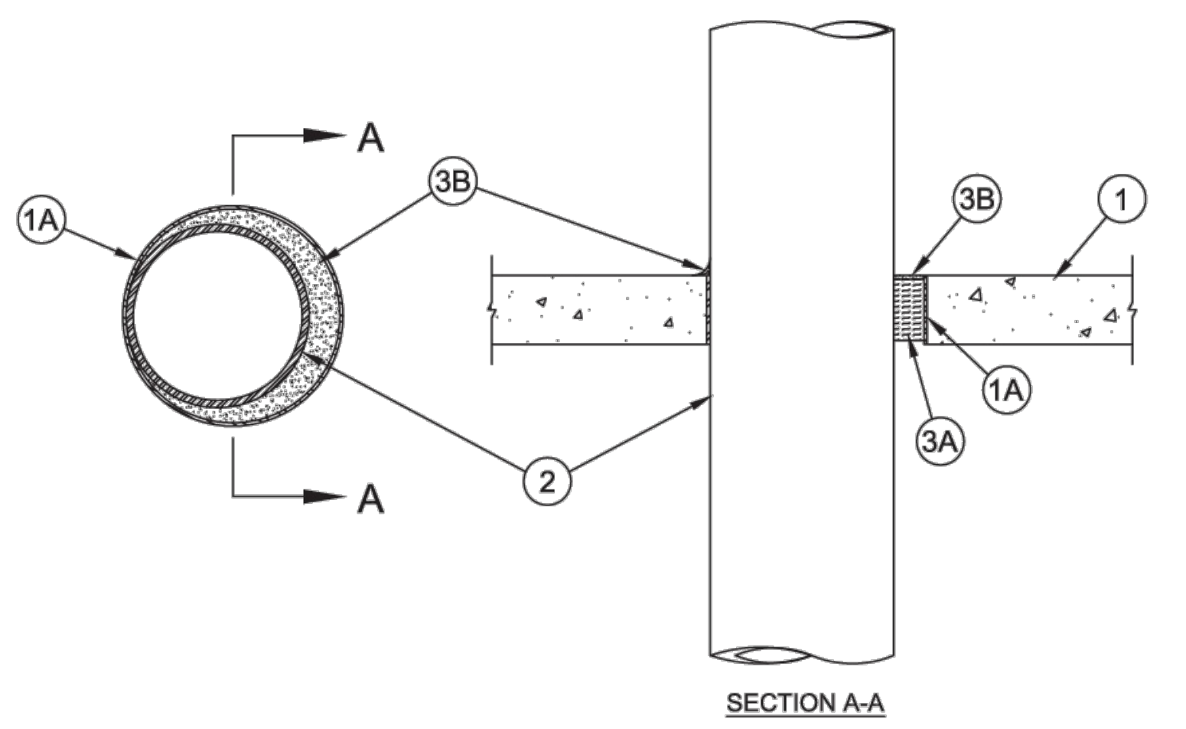
     The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. **Through Penetrant** – One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The space between pipes, conduits or tubing and the steel sleeve (Item 3A) shall be min of 0 in. (point contact) to max 2-3/8 in. (60 mm). 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, nom 12 in. (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
   - C. **Conduit** – Nom 6 in. (152 mm) diam (or smaller) 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. **Firestop System** – Installed symmetrically on both sides of wall assembly. The details of the firestop system shall be as follows.
   - A. **Steel Sleeve** – Cylindrical sleeve fabricated from min 0.019 in. thick (0.48 mm) galv sheet steel and having a min 2 in. (51 mm) lap along the longitudinal seam. Length of steel sleeve to be equal to thickness of wall plus 1 to 4 in. (25 to 102 mm) such that, when installed, the ends of the sleeve will project approx 1/2 to 2 in. (13 to 51 mm) beyond the surface of the wall on both sides of the wall assembly.

     Sleeve installed by coiling the sheet steel to a diam smaller than the through opening, inserting the coil through the openings and releasing the coil to let it uncoil against the circular cutouts in the gypsum board layers.
   - B. **Packing Material** – Min 1 in. (25 mm) thickness of mineral wool batt insulation firmly packed into steel sleeve on both sides of the wall assembly as permanent forms. Packing material to be recessed min 1/2 in. (13 mm) from end of steel sleeve (flush with or recessed into gypsum board surface) on both sides of wall assembly.
   - B1. **Packing Material** – (Not shown) – As an alternate to Item B, nom 1 in. (25 mm) thick polyethylene backer rod may be used. The backer rod is to be recessed within the steel sleeve a min of 1 in. (25 mm) from each surface of wall.
   - C. **Fill, Void or Cavity Materials* – Caulk or Sealant** – When mineral wool batt insulation is used, caulk or sealant applied to fill the steel sleeve to a min depth of 1/2 in. (13 mm) on both sides of wall assembly. When backer rod is used, a min thickness of 1 in. (25 mm) of caulk or sealant is required flush with both sides of wall. A nom 1/4 in. (6 mm) diam continuous bead of caulk or sealant shall be applied around the circumference of the steel sleeve at its egress from the gypsum board layers on both sides of the wall assembly.

     3M COMPANY – CP 25WB+, IC 15WB+ or FB-3000 WT

*Bearing the UL Classification Mark

System No. C-AJ-1366
December 04, 2008
F Rating – 2 Hr
T Rating – 0 Hr
L Rating At Ambient – Less Than 1 CFM/sq ft
L Rating At 400 F – 2 CFM/sq ft



1. **Floor or Wall Assembly** – Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete floor or min 3 in. (76 mm) thick. reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete wall. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 10 in. (254 mm).

   See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

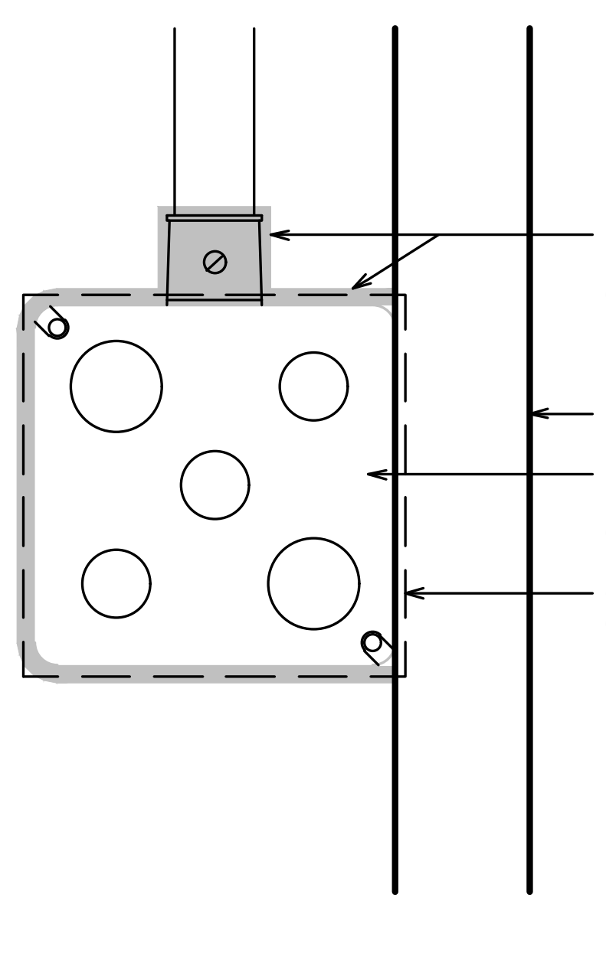
1A. **Steel Sleeve** (Optional) – Nom 10 in. (254 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe sleeve cast into concrete floor or wall. Sleeve to be flush with top and bottom surfaces of floor or both surfaces of wall.

2. **Through Penetrants** – One metallic pipe, tubing or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between tube and periphery of opening shall be min 0 in. to max 7/8 in. (22 mm). Penetrants to be rigidly supported on both sides of floor assembly. The following types and sizes of metallic pipes, tubing or conduit 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 6 in. (152 mm) diam (or smaller) rigid steel conduit.
   - D. **Conduit** – Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.
   - E. **Copper Tubing** – Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tube.
   - F. **Copper Pipe** – Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
3. **Firestop System** – The details of the firestop system shall be as follows:
   - A. **Packing Material** – Min 2 in. (51 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or both surfaces of wall to accommodate the required thickness of fill material.
   - B. **Fill, Void or Cavity Materials* – Caulk** – Min 1/2 in. (13 mm) thickness of caulk applied within the annulus, flush with top surface of floor or both surfaces of wall. Min 1/2 in. (13 mm) diam bead of caulk applied to the penetrant/concrete interface at the point contact location on the top surface of floor or both surfaces of wall.

     3M COMPANY – FireDam 150+

*Bearing the UL Classification Mark

E1 Conduit Penetration Fire Stop Detail
No Scale



3M MPP+ MOLDABLE FIRESTOP PUTTY ON COUPLING AND ALL SIDES OF BOX EXCEPT FRONT AND SIDE IN CONTACT WITH STUD.

WALL STUD

4-11/6" SQ. BOX (OR LARGER, NOT TO EXCEED 100 SQ. IN. PER 100 SQ. FT. OF RATED WALL)

GYP. BD. OPENING CUT WITHIN 1/8" OF BOX OPENING

NOTE:
FIRE PUTTY INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. SYSTEM DESIGNED TO MEET REQ'TS OF UL 1479 (ASTM E814).

A1 Electrical Box Fire Stop Detail
No Scale

ELECTRICAL GENERAL NOTES:

1. ALL WORK SHALL MEET THE LATEST ADOPTED ADDITIONS OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 24 AND ALL OTHER APPLICABLE REGULATIONS, WHICH INCLUDE:

CALIFORNIA BUILDING CODE	2022
CALIFORNIA ELECTRICAL CODE	2022
NON RESIDENTIAL CEC ENERGY STANDARDS	2022

2. NOTHING IN THE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.
3. IT IS THE INTENTION OF THESE PLANS AND SPECIFICATIONS TO COVER EVERYTHING REQUIRED TO PROVIDE FOR COMPLETE AND OPERATIVE SYSTEMS. THE CONTRACTOR IS TO FURNISH LABOR, MATERIAL, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC. REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE INSTALLATION IS TO BE INCLUDED, WHETHER OR NOT SPECIFICALLY SHOWN OR MENTIONED.
4. THE CONTRACTOR SHALL EXAMINE THE SITE AND EXISTING CONDITIONS AND MAKE ALLOWANCES IN THE BID FOR ANY CONDITIONS NOT SHOWN ON THE ELECTRICAL DOCUMENTS.
5. THE PLANS AND SPECIFICATIONS ARE INTENDED TO BE USED AS CONSTRUCTION GUIDELINES AND ARE NOT THE TOTAL INSTRUMENT OF CONTRACT DOCUMENTS. IT IS NOT THE INTENTION OF ANY CONSTRUCTION PLANS TO DIVIDE WORK AMONG DIFFERENT TRADES. VERIFY THE SCOPE OF WORK WITH THE ARCHITECT AND THE GENERAL CONTRACTOR.
6. ELECTRICAL ROUTING IS DIAGRAMMATIC ONLY. ACTUAL ROUTING & PHYSICAL CONDITIONS MAY VARY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL ROUTING, CONNECTIONS, & PROVISION OF ALL APPURTENANCES NECESSARY FOR A COMPLETE & OPERATING SYSTEM.
7. ELECTRICAL EQUIPMENT SHALL HAVE AN APPROVED TESTING LABORATORY LABEL ATTACHED (UL, CSA, ETC.) PER CEC 110.2.
8. PROVIDE LABELING AND DIRECTORIES FOR ALL SWITCHBOARDS AND PANELBOARDS PER CEC 408.4. PROVIDE LABEL PER G5/X/E303.
9. ELECTRICAL EQUIPMENT SHALL HAVE A SHORT CIRCUIT CURRENT RATING CAPABLE OF WITHSTANDING THE AVAILABLE SHORT CIRCUIT CURRENT PER CEC 110.9.
10. PROVIDE MINIMUM 30" WIDE x 78" HIGH x 36" DEEP WORK CLEARANCES IN FRONT OF PANELS, SERVICE OR EQUIPMENT RATED AT 120/208V 3Ø 4W PER CEC 110.26.
11. PROVIDE MINIMUM 30" WIDE x 78" HIGH x 42" DEEP WORK CLEARANCES IN FRONT OF PANELS, SERVICE OR EQUIPMENT RATED AT 277/480V 3Ø 4W PER CEC 110.26.
12. ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUIT OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE MOUNTED BETWEEN 15" AFF AND 48" AFF AND SHALL COMPLY WITH CBC SECTION 11B-308. THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX. IF THE REACH IS OBSTRUCTED (E.G. BY CASEWORK, COUNTERS, ETC.), RECEPTACLES SHALL BE LOCATED WITHIN THE REACH RANGES SPECIFIED IN CBC 11B-308.2.2 AND 11B-308.3.2.
13. CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF A ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES, OR COOLING, HEATING AND VENTILATING EQUIPMENT SHALL BE MOUNTED BETWEEN 15" AFF AND 48" AFF AND SHALL COMPLY WITH CBC SECTION 11B-308. THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX. IF THE REACH IS OBSTRUCTED (E.G. BY CASEWORK, COUNTERS, ETC.), SWITCHES AND CONTROLS SHALL BE LOCATED WITHIN THE REACH RANGES SPECIFIED IN CBC 11B-308.2.2 AND 11B-308.3.2.
14. ALL WALL AND SURFACE MOUNTED FIXTURES PROTRUDING IN THE PATH OF TRAVEL (POT) OR COMMON PEDESTRIAN WAYS SHALL COMPLY WITH CBC 11B-307.2, OR SHALL BE MOUNTED LESS THAN 27" AFF OR GREATER THAN 80" AFF, OR SHALL BE PROVIDED WITH A BARRIER CONFORMING TO CBC 11B-307.4.
15. EMERGENCY EGRESS LIGHTING SHALL PROVIDE A MINIMUM LUMINANCE OF 1 FOOTCANDLE AT THE WALKING SURFACE FOR A MINIMUM OF 90 MINUTES.
16. FIRE ALARM EQUIPMENT SHALL BE SERVED BY DEDICATED FIRE ALARM BRANCH CIRCUITS PER NFPA 72 10.6.5.1.2. THE CIRCUIT NUMBER SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM EQUIPMENT PER NFPA 10.6.5.2.1. THE CIRCUIT BREAKER SHALL BE EQUIPPED WITH RED HANDLE AND LOCK-ON DEVICE, AND PERMANENTLY IDENTIFIED AS "FIRE ALARM CIRCUIT" PER NFPA 72 10.6.5.2.2, 10.6.5.2.3, 10.6.5.2.4, AND 10.6.5.4.
17. WIRING FOR 120/208V AND 277/480V SYSTEMS SHALL BE MIN. #12 AWG THHN/THWN-2 COPPER.
18. FEEDERS SIZE #4 AND LARGER SHALL BE MEGGER TESTED. TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER.
19. COLORS/FINISHES/MATERIALS FOR ALL ELECTRICAL DEVICES, PLATES, LIGHT FIXTURES, ETC. SHALL BE CHOSEN BY THE ARCHITECT.
20. PROVIDE PERMANENT LOCK-OPEN DEVICES ON CIRCUIT BREAKERS SERVING ELECTRIC WATER HEATERS TO MEET THE REQUIREMENTS OF CEC 422.31.
21. CONTRACTOR SHALL EXTEND ALL ELECTRONICS SYSTEMS AND FIRE ALARM SYSTEMS AS REQUIRED. MODIFY HEAD-IN EQUIPMENT TO ACCOMMODATE NEW DEVICES AS REQUIRED. VERIFY THE CONDITION AND EXPANDABILITY OF ALL HEAD-IN EQUIPMENT PRIOR TO BID AND MODIFY ACCORDINGLY.
22. CALL USA UNDERGROUND ALERT AND VERIFY WITH DISTRICT THE DESIRED ROUTING AND LOCATIONS OF UNDERGROUND CONDUITS AND STRUCTURES PRIOR TO TRENCHING.
23. EXISTING EQUIPMENT TO BE REMOVED AND/OR REPLACED SHALL BE DELIVERED TO THE DISTRICT MAINTENANCE DEPARTMENT OR DISPOSED OF, AT THE DISCRETION OF THE DISTRICT. ALL ELECTRONICS EQUIPMENT SHALL BE DE-ENERGIZED PRIOR TO DEMO WORK. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO LIVE EQUIPMENT.
24. ALL CONDUITS UNDER CONCRETE OR ASPHALT WILL HAVE 24" MINIMUM COVER OF ROCK FREE NATIVE SOIL, METALLIC WARNING TAPE AT 12", AND NO ENCASEMENT REQUIRED. ALL CONDUITS THAT HAVE CONDUCTORS WITH A POTENTIAL OF 250 VOLT TO GROUND OR GREATER, THAT ARE NOT UNDER ASPHALT AND/OR CONCRETE SHALL REQUIRE 1,500 PSI CONCRETE ENCASEMENT, METALLIC WARNING TAPE AT 12", AND A MINIMUM COVER FROM TOP OF ENCASEMENT OF 24". ALL CONDUITS THAT HAVE CONDUCTORS WITH A POTENTIAL OF LESS THAN 250 VOLTS TO GROUND, THAT ARE NOT UNDER ASPHALT AND/OR CONCRETE WILL HAVE 30" MINIMUM COVER OF NATIVE SOIL, METALLIC WARNING TAPE AT 12" AND NO ENCASEMENT REQUIRED.
25. INSTALL GALVANIZED RIGID STEEL RISERS & ELBOWS WHERE THEY OCCUR. WRAP GALVANIZED RIGID STEEL BELOW GRADE. PVC SHALL NOT BE INSTALLED ABOVE GRADE.
26. CONDUIT INSTALLED ABOVE GRADE SHALL BE MIN. 3/4" TRADE SIZE. CONDUIT BELOW GRADE SHALL BE MIN. 1" TRADE SIZE.
27. PROVIDE (4) 1" CONDUIT STUBS FROM NEW ELECTRICAL PANELs TO ACCESSIBLE ATTIC SPACE FOR FUTURE USE.
28. CIRCUIT BREAKERS SERVING FIRE ALARM EQUIPMENT SHALL HAVE A RED HANDLE AND LOCK-ON DEVICE.
29. HOLES ARE NOT ALLOWED THROUGH TOP PLATES OF BEARING WALLS AND SHEAR WALLS.
30. INCLUDE FIRE STOP SYSTEMS REQUIRED FOR ALL WORK AFFECTED BY FIRE RATED ASSEMBLIES.
31. INCLUDE ALL WORK REQUIRED TO INVESTIGATE, DEMOLISH, & RECONNECT EXISTING ITEMS.
32. ALL EXTERIOR FIXTURES 6,000 LUMENS OR GREATER SHALL COMPLY WITH THE LIGHT POLLUTION REDUCTION REQUIREMENTS OF CALIFORNIA GREEN BUILDING CODE SECTION 5.106.8.

LIGHTING GENERAL NOTES:

1. THE CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM OF LIGHT FIXTURES AND CONTROLS THAT COMPLY WITH THE REQUIREMENTS OF CALIFORNIA ENERGY COMMISSION TITLE 24.
2. PROVIDE A COMPLETE AND OPERATIONAL CONTROLS PACKAGE IN LIGHTING AREAS. PROVIDE WALL SWITCHES, SENSORS, POWER PACKS, MISCELLANEOUS APPURTENANCES, FACTORY CABLING, AND FACTORY COMMISSIONING.
3. AN EQUAL SUBSTITUTE PACKAGE BY ANOTHER MANUFACTURER MAY BE ACCEPTABLE. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL REQUIRED COMPONENTS, ADDITIONAL WIRING FOR DIMMING OPERATION OF LIGHT FIXTURES, AND ANYTHING ELSE NEEDED FOR A COMPLETE AND OPERATIONAL SYSTEM. SUBMIT SUBSTITUTE PACKAGE, INCLUDING SHOP DRAWINGS, TO ENGINEER FOR REVIEW AND APPROVAL. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY RESULT IN REJECTION OF SUBSTITUTE COMPONENTS.
4. THE PLANS GENERALLY SHOW THE LOCATION OF SWITCHES, SENSORS, CONTROL MODULES ETC. ACTUAL LOCATIONS AND INSTALLATION REQUIREMENTS SHALL BE DETERMINED BY THE MANUFACTURER. SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL.
5. PROVIDE FACTORY COMMISSIONING, TO INCLUDE COMPLETE CONTROL WIRING/ CALIBRATION/ PROGRAMMING OF LIGHTING CONTROL COMPONENTS.
6. LIGHTING SYSTEM ACCEPTANCE TESTING IS REQUIRED AS PER TITLE 24. THE CONTRACTOR SHALL INCLUDE ACCEPTANCE TESTING COSTS IN BID. THE CONTRACTOR IS RESPONSIBLE TO MAKE ANY ADJUSTMENTS NECESSARY TO ACHIEVE ACCEPTANCE.
7. LIGHTING FIXTURE COLORS, WHEN NOT SPECIFIED, SHALL BE SELECTED BY THE ARCHITECT'S OFFICE. DO NOT SUBMIT COLORS THAT HAVE NOT BEEN APPROVED BY THE ARCHITECT.

ELECTRICAL SYMBOLS SCHEDULE:

	SYMBOL	DESCRIPTION	NOTES
LIGHTING	⊙	POLE WITH POST TOP AREA LUMINAIRE	
	▭-⊙	POLE WITH SINGLE AREA LUMINAIRE	
	▭-⊙-▭	POLE WITH DOUBLE AREA LUMINAIRES	
	▭	LAY-IN LIGHT FIXTURE	
	◎	SURFACE CEILING LIGHT	
	▣	RECESSED DOWN LIGHT	
	○	WALL LIGHT	
	⊗	EXIT SIGN, CEILING	ARROWS INDICATE CHEVRON DIRECTIONS
	⊗	EXIT SIGN, WALL	ARROWS INDICATE CHEVRON DIRECTIONS
	⊗L	EXIT SIGN, WALL, LOW LEVEL PER CBC 1013.7	ARROWS INDICATE CHEVRON DIRECTIONS
	▭(A)	FIXTURE TYPE "A"	REFER TO FIXTURE SCHEDULE
	◩	FIXTURE ON EMERGENCY POWER	PROVIDE UNSWITCHED HOT CONDUCTOR
	INV	INVERTER	SEE DETAIL A1/X/E102 FOR SPEC AND MOUNTING.
	D	LOW VOLTAGE DRIVER	
	$	SWITCH AT +48" AFF MAX TO TOP OF BOX	20A 277V QUIET TOGGLE
	Φ	WALL MOUNTED DUAL TECH OCCUPANCY SENSOR SWITCH, 0-10V DIMMING, AT +48" AFF MAX TO TOP OF BOX	ROUGH IN WITH 1G BOX PER SWITCH W/ RING, 1"C. TO ACCESSIBLE ATTIC SPACE
	ΦEF	WALL MOUNTED ULTRASONIC OCCUPANCY SENSOR SWITCH, W/ SEPARATE EXHAUST FAN RELAY, AT +48" AFF MAX TO TOP OF BOX	ROUGH IN WITH 1G BOX PER SWITCH W/ RING, 1"C. TO ACCESSIBLE ATTIC SPACE
	Ⓡ	UL924 EMERGENCY CONTROL RELAY, 20A, DIMMING OVERRIDE, FUNCTIONAL DEVICES INC #ESRN	MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS LOCATION, HIGH ON WALL, WHEN NO CEILING
	($)	WIRELESS DIGITAL ON/OFF SWITCH, AT +48" AFF MAX TO TOP OF BOX	WAVELINX SYSTEM, ROUGH IN WITH 1G BOX & RING, 277V CONSTANT HOT REQUIRED
	Ⓓ	WIRELESS DIGITAL DIMMER SWITCH, AT +48" AFF MAX TO TOP OF BOX	WAVELINX SYSTEM, ROUGH IN WITH 1G BOX & RING. 277V CONSTANT HOT REQUIRED
	ⒹOS	WIRELESS DIGITAL DIMMER SWITCH W/ INTEGRAL OCCUPANCY SENSOR AND PHOTOSENSOR AT +48" AFF MAX TO TOP OF BOX	WAVELINX SYSTEM, ROUGH IN WITH 1G BOX & RING. 277V CONSTANT HOT REQUIRED
	(OS)	WIRELESS DIGITAL OCCUPANCY SENSOR W/ PHOTOSENSOR, DUAL-TECHNOLOGY, CEILING MOUNT	WAVELINX SYSTEM,
	⊢(OS)	WIRELESS DIGITAL OCCUPANCY SENSOR W/ PHOTOSENSOR, DUAL-TECHNOLOGY, WALL MOUNT	WAVELINX SYSTEM,
	(EC)	SYSTEM CONTROLLER	WAVELINX WIRELESS ACCESS CONTROLLER INSTALL IN ACCESSIBLE CEILING SPACE. PROVIDE 120/277V UNSWITCHED POWER.
	(PP)	DIMMING POWER PACK VERIFY 0-10V, 2- OR 3-WIRE, MLV, OR ELV BY FIXTURE	WAVELINX SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING
	(PP)E	DIMMING POWER PACK W/ EMERGENCY CONTROL RELAY. VERIFY 0-10V, 2- OR 3-WIRE, MLV, OR ELV BY FIXTURE	WAVELINX SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING
	(XP)	DMX CONTROLLER PACK	WAVELINX SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING
	(RR)	RECEPTACLE RELAY CONTROLLED BY OCCUPANCY SENSOR	WAVELINX SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING. (1) RELAY PER CIRCUIT IN EACH CONTROLLED AREA.
	— · —	PRIMARY DAYLIGHT ZONE BOUNDARY	
	— ·· —	SECONDARY DAYLIGHT ZONE BOUNDARY	
DATACOM	▬	TERMINAL CABINET	
	▽	DATA OUTLET (RJ-45 CAT6A) AT +18" AFF, U.O.N. (2) DATA JACKS U.O.N.	4-11/16 SQ. BOX, 1G RING, MODULAR PLATE, & 1"C. TO ACCESSIBLE ATTIC. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.
	⧩	DATA/TEL OUTLET (RJ-45 CAT6A/RJ-11 CAT6A) AT +18" AFF, U.O.N. (2) DATA JACKS, (1) TEL. U.O.N.	4-11/16 SQ. BOX, 1G RING, MODULAR PLATE, & 1"C. TO ACCESSIBLE ATTIC. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.
	▽	(2) DATA JACKS (RJ-45 CAT6A) FOR WIRELESS ACCESS POINT	
	▼	WALL MOUNT TELEPHONE OUTLET AT +45" AFF, U.O.N. (1) TELEPHONE JACK (CAT6A) U.O.N.	1G BOX, 1G RING, MODULAR PLATE, & 3/4"C. TO ACCESSIBLE ATTIC SPACE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.
	TV	RECESSED TV OUTLET WITH HDMI, VGA, AND AUDIO JACKS. VERIFY HEIGHT PRIOR TO ROUGH-IN.	PROVIDE OUTLET BOX, RING, AND 1-1/4"C. STUB TO CEILING SPACE. VERIFY HEIGHTS AND EXACT REQUIREMENTS..
	AV	AUDIO VISUAL RECESSED OUTLET WITH HDMI, VGA, AUDIO JACKS, AND CABLING TO T.V. OUTLET.	PROVIDE OUTLET BOX, RING, AND 1-1/4"C. STUB TO CEILING SPACE. VERIFY HEIGHTS AND EXACT REQUIREMENTS..
	IDF/HC	"INTERMEDIATE DISTRIBUTION FRAME"/ "HORIZONTAL CROSS-CONNECT"	
	MDF/MC	"MAIN DISTRIBUTION FRAME"/ "MAIN CROSS-CONNECT"	
SECURITY	⊘	INTRUSION DOOR/WINDOW CONTACT	PROVIDE 1/2"C TO ACCESSIBLE ATTIC SPACE ACCESSIBLE ATTIC SPACE
	Ⓜ	INTRUSION PIR MOTION SENSOR AT CEILING	ROUGH IN WITH 1G BOX & 1/2"C. TO ACCESSIBLE ATTIC SPACE
	↑Ⓜ	INTRUSION LONG RANGE MOTION SENSOR AT CEILING	ROUGH IN WITH 1G BOX & 1/2"C. TO ACCESSIBLE ATTIC SPACE
	Ⓖ	INTRUSION GLASS BREAK SENSOR AT CEILING	ROUGH IN WITH 1G BOX & 1/2"C. TO ACCESSIBLE ATTIC SPACE
	Ⓟ	INTRUSION STAFF PANIC BUTTON	ROUGH IN WITH 1G BOX & 1/2"C. TO ACCESSIBLE ATTIC SPACE
	Ⓚ	INTRUSION KEY PAD AT +48" AFF TO TOP OF BOX	ROUGH IN WITH 1G BOX & 1/2"C. TO ACCESSIBLE ATTIC SPACE
	Ⓩ	INTRUSION 4-ZONE ADDRESSABLE MODULE IN ACCESSIBLE ATTIC SPACE	
	CR	SECURITY CARD READER +48" AFF TO TOP OF BOX	ROUGH IN WITH 1G BOX & 1/2"C. TO ACCESSIBLE ATTIC SPACE
	L	SECURITY ELECTRICAL DOOR LATCH, PROVISIONS	ROUGH IN WITH 1G BOX & 1/2"C. TO ACCESSIBLE ATTIC SPACE
	○	SURVEILLANCE (CCTV) CAMERA REFER TO SPECIFICATIONS	REFER TO SPECIFICATIONS
	MON	SURVEILLANCE (CCTV) TV MONITOR RUN HDMI EXTENDER AND CABLING TO DVR	REFER TO SPECIFICATIONS
	DVR	SURVEILLANCE (CCTV) DVR	REFER TO SPECIFICATIONS
	SEC	"INTRUSION SYSTEM MAIN PANEL"	REFER TO SPECIFICATIONS
	INT	"INTRUSION SYSTEM TERMINAL BLOCK"	REFER TO SPECIFICATIONS
POWER	▨	SWITCHBOARD	REFER TO POWER SINGLE LINE DIAGRAM
	▬	POWER PANEL	REFER TO PANEL SCHEDULE. PROVIDE LABEL PER G5/X/E303.
	Ⓙ	JUNCTION BOX	4-11/16" SQUARE BOX & COVER PLATE MIN.
	⊐	DISCONNECT SWITCH, FUSIBLE	DISCONNECT FUSING TO BE PER NAMEPLATE DATA. PROVIDE LABEL PER G5/X/E303.
	⊠	COMBINATION STARTER/DISCONNECT SWITCH	REFER TO MECH. PLANS & SPECS. PROVIDE LABEL PER G5/X/E303.
	⊘	MOTOR	REFER TO MECH. PLANS & SPECS.
	⊗	EXHAUST FAN, CEILING MOUNTED	REFER TO MECH. PLANS & SPECS.
	Φ	SINGLE CONVENIENCE OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT
	⏀	DUPLEX CONVENIENCE OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT, LEVITON #TDR20-W
	⊕	QUADPLEX CONVENIENCE OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT, LEVITON #TDR20-W
	◐	GFI DUPLEX OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT, LEVITON #GFTR2-W
	●	WEATHERPROOF, GFI DUPLEX OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N. W/ WEATHERPROOF IN-USE, METAL, LOCKABLE TYPE COVER	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT, LEVITON #GFTR2-W
	▥	DUPLEX CONVENIENCE OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N. SPLIT-WIRED WITH UNSWITCHED AND SWITCHED BY OCCUPANCY SENSOR	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT, LEVITON #TDR20-S1W CODE COMPLIANT MARKING REQUIRED
	⊞	QUADPLEX CONVENIENCE OUTLET, CONTROLLED AT +15" AFF TO BOTTOM OF BOX, U.O.N. ONE UNSWITCHED AND ONE SWITCHED BY OCCUPANCY SENSOR	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT, LEVITON #TDR20-W AND LEVITON #TDR20-S2W CODE COMPLIANT MARKING REQUIRED
	◙	SPECIAL EQUIPMENT OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	VERIFY REQ'TS W/ EQUIPMENT VENDOR TAMPER RESISTANT
	⊠	POWER POLE, 2-COMPARTMENT	
	◉	FLOOR BOX	3-GANG BOX WITH CAST ALUMINUM TRIM PLATES
	⏚	12" CU GROUND BUS BAR	WITH #6 GREEN GROUND WIRE TO G.E.C.
PA	Ⓢ	IP PA SPEAKER, CEILING MOUNTED, RECESSED	OWNER FURNISHED, CONTRACTOR INSTALLED
	Ⓢ	IP PA SPEAKER, WALL MOUNTED, RECESSED	OWNER FURNISHED, CONTRACTOR INSTALLED
	ⓈWP	IP WP OUTDOOR PA SPEAKER, RECESSED	OWNER FURNISHED, CONTRACTOR INSTALLED
	S◷	IP CLOCK, PA SPEAKER & MIC, RECESSED	OWNER FURNISHED, CONTRACTOR INSTALLED
MISC.	∿∿	FIRE/SMOKE DAMPER	PROVIDE 120V F.A. CIRCUIT TO DAMPER VIA DEDICATED F.A. RELAY
	Ⓑ	SPRINKLER RISER BELL	PROVIDE 120V F.A. CIRCUIT
	▭▭▭	WIREMOLD 5400 SURFACE WIREWAY	RISERS WHERE INDICATED ON DRAWINGS
	EMS	"ENERGY MANAGEMENT SYSTEM PUNCH BLOCK"	
	Ⓣ	LOW VOLTAGE TRANSFORMER	PROVIDE 120V CIRCUIT
GENERAL	⏀⊕▽	DEVICES TO BE REMOVED	
	┄┄┄	EXISTING CONDUIT/WIRING TO BE DEMOLISHED	
	⏀⊕▽	EXISTING DEVICES	
	— ·· —	EXISTING CONDUIT/WIRING	
	╌╌╌	WIRING IN CONDUIT, BELOW GRADE	1" CONDUIT MIN. SEE M10/X/E106.
	———	WIRING IN CONDUIT, IN WALL OR CEILING	3/4" CONDUIT MIN.; EMT CONCEALED AND ABV. 96" EXPOSED; GRS BELOWS 96" EXPOSED.
	— LV —	LOW VOLTAGE WIRING IN ATTIC SPACE	TYPE PER EQUIPMENT MANUFACTURER
	——●	CONDUIT RISER	3/4" CONDUIT MIN.
	⌒	FLEXIBLE CONDUIT	3/4" CONDUIT MIN.
	——∃	CONDUIT STUB AND CAP	3/4" CONDUIT MIN.
	—///—	CROSS HATCHES INDICATE NUMBER OF #12 AWG. CONDUCTORS IN CONDUIT, WHEN MORE THAN TWO. WIRE SIZE INDICATED ON PLANS WHEN OTHER #12 AWG. PROVIDE GROUND PER CEC 250. PROVIDE DEDICATED NEUTRAL FOR EACH CIRCUIT.	3/4" CONDUIT MIN.
	—)))—	CURVED CROSS HATCHES INDICATE #14 AWG PURPLE & GRAY CONDUCTORS FOR DIMMING CONTROL.	3/4" CONDUIT MIN.
	——► A-15	HOME RUN (TO PANEL "A", CIRCUIT "15")	3/4" CONDUIT MIN.
	(E)	"EXISTING"	
	(D)	"DEMO"	
	(N)	"NEW"	
	U.O.N.	"UNLESS OTHERWISE NOTED"	
	WP	"WEATHERPROOF" / NEMA 3R	
	GFI	"GROUND FAULT INTERRUPTER"	
ACCESS	C	ACCESS CONTROL DOOR CONTACT	PROVIDE 1/2"C TO ACCESSIBLE ATTIC SPACE ACCESSIBLE ATTIC SPACE
	KF	ACCESS CONTROL FOB READER AT +48" AFF TO TOP OF BOX	ROUGH IN WITH 1G BOX & 1/2"C. TO ACCESSIBLE ATTIC SPACE
	ACC	"ACCESS CONTROL PANEL"	REFER TO SPECIFICATIONS

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

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 2022 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, 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 110/220 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.

MEP DISTRIBUTION SYSTEM BRACING NOTES FOR ELECTRICAL CONDUIT:

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7 SECTIONS 13.6.5, 13.6.6, 13.6.7, AND 13.6.8; AND 2022 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 SYSTEMS ARE AS NOTED BELOW. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16-13.

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

MP ☐ MD ☐ PP ☐ E ■ OPTION 1: PROJECT-SPECIFIC DESIGN.

MP ☐ MD ☐ PP ☐ E ☐ OPTION 2: DESIGN BASED ON OSHPD OPM, WITHIN ROJECT SUBMITTAL.

MP ☐ MD ☐ PP ☐ E ☐ OPTION 3: DESIGN BASED ON OSHPD OPM, DEFERRED APPROVAL.

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Merced City Unified School District
Merced, CA, 95340
Project

TYPICAL INFORMATION
ELECTRICAL SYSTEMS - SYMBOLS, NOTES, & DETAILS
Drawing

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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

	Designed By: RH	
Scale:	Drawn By: HDE	X/E101
Project Number: 2533	Checked By: RH	
Date: 2/9/26	Reviewed By: RH	

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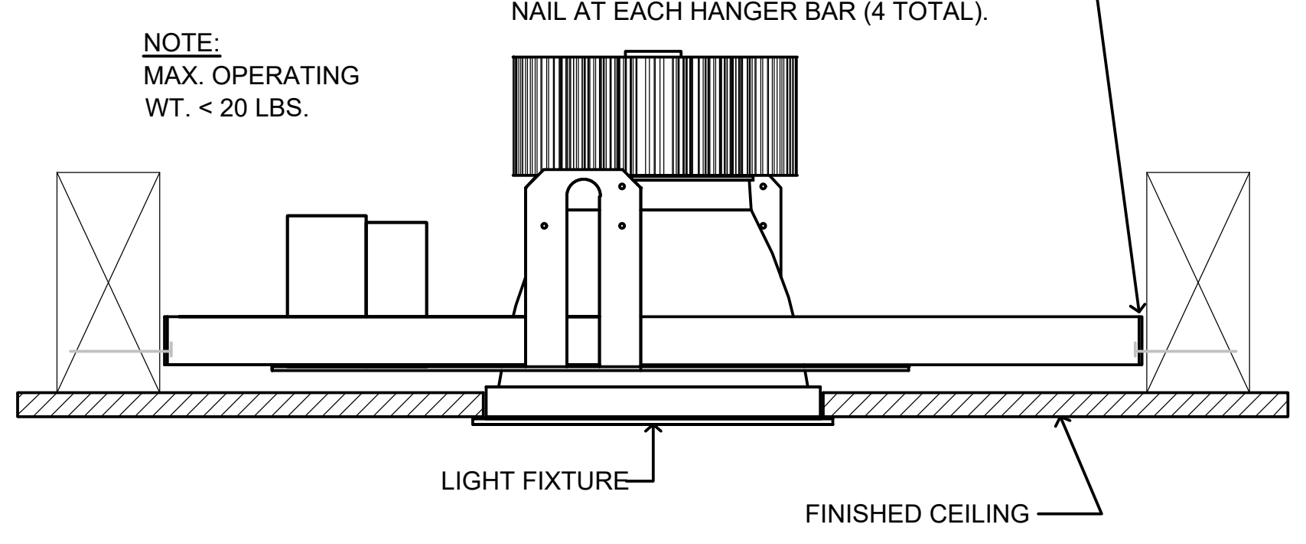
LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL NO.	SOURCE	WATTS	VOLT	MOUNTING	DETAIL	WEIGHT	REMARKS
A	METALUX	24RLN-LD5-45-RDP-UNV-L835-CD1-1-WPS-U-EQ-CLIP-U	LED	34	UNV	TROFFER	E1/X/E201	21 LBS	2X4 TROFFER
AE	METALUX	24RLN-LD5-45-RDP-UNV-EL14W-L835-CD1-1-WPS-U-EQ-CLIP-U	LED	34	UNV	TROFFER	E1/X/E201	25 LBS	2X4 TROFFER W/BATTERY
C	FAILSAFE	HVSL8-4-LD4-1-STD-35-UNV O-ED1D-1-SF1-VRSD-WPS	LED	33	UNV	SURFACE	J1/X/E201	12 LBS	VANDAL RESISTANT SURFACE WRAP
P1	BARRON	MWQ 20 C BZ	LED	19	277	WALL	A1/X/E201	8 LBS	WALL MOUNTED
P3	COOPER	4VRVT3-LD5-4-WPC-UNV-L840-CD1-WL-SSL-U	LED	31	UNV	SURFACE	A1/X/E202	12 LBS	SHADE STRUCTURE
S1	MCGRAW	GALN SA2C 740 U T4W BZ HSS MS/DIML40/SSS254-11-1@90	LED	108	UNV	POLE	A9/X/E201	173 LbS	25' POLE LIGHT
S2	MCGRAW/AV	(2)GALN SA2C 740 U T4W BZ HSS MS/DIML40 / SSS254-11-2@180	LED	216	UNV	POLE	A9/X/E202	173 LbS	25' POLE LIGHT
S3	MCGRAW/AV	GALN SA2C 740 U SL2W BZ HSS MS/DIML40/SSS254-11-1@90	LED	108	UNV	POLE	A9/X/E203	173 LbS	25' POLE LIGHT
S4	MCGRAW/AV	GPC SA 2C 740 U T3 QM BZ MS/DIM-L20/SSS124-11-1@90	LED	113	UNV	POLE	A14/X/E204	173 LBS	12' POLE LIGHT
X	SURELITE	CX71WHSD	LED	1	UNV	WALL	A1/X/E201	4 LBS	EXIT SIGN W/ BATTERY PACK
X2	SURELITE	CX72WHSD	LED	1	UNV	SURFACE	J1/X/E201	4 LBS	DUAL FACE EXIT SIGN W/BATTERY PACK
LCP	GREENGATE	LK4-120NO	N/A	N/A	120	WALL	D1/X/E202	14 LBS	EXTERIOR LIGHTING CONTROL PANEL
CONTROLS									
	COOPER	WAC2-POE						2 LBS	CONTROLLER
	COOPER	W2L-RL						1 LBS	WALL STATION
	COOPER	WSP						1 LBS	SWITCHPACK

PROVIDE ANCILLARY WAVELINX COMPONENTS TO MAKE SYSTEM OPERATIONAL AND COMPLY WITH TITLE 24 AND ALL APPLICABLE CODES

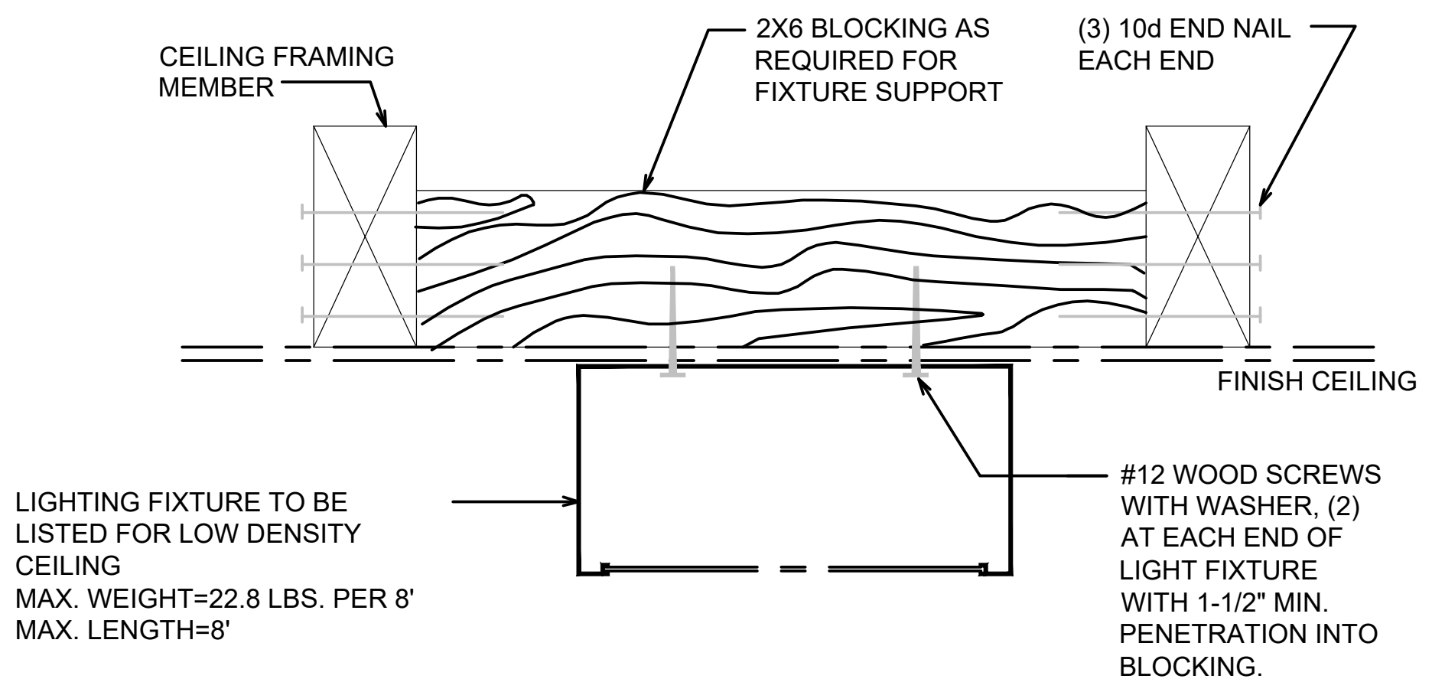
J5 Light Fixture Schedule

No Scale


FACTORY SUPPIED HANGER BAR. ATTACH TO CEILING FRAMING MEMBER WITH 4d NAIL AT EACH HANGER BAR (4 TOTAL).
NOTE:
MAX. OPERATING WT. < 20 LBS.
LIGHT FIXTURE
FINISHED CEILING

N1 Downlight Fixture Recessed Mounting Detail

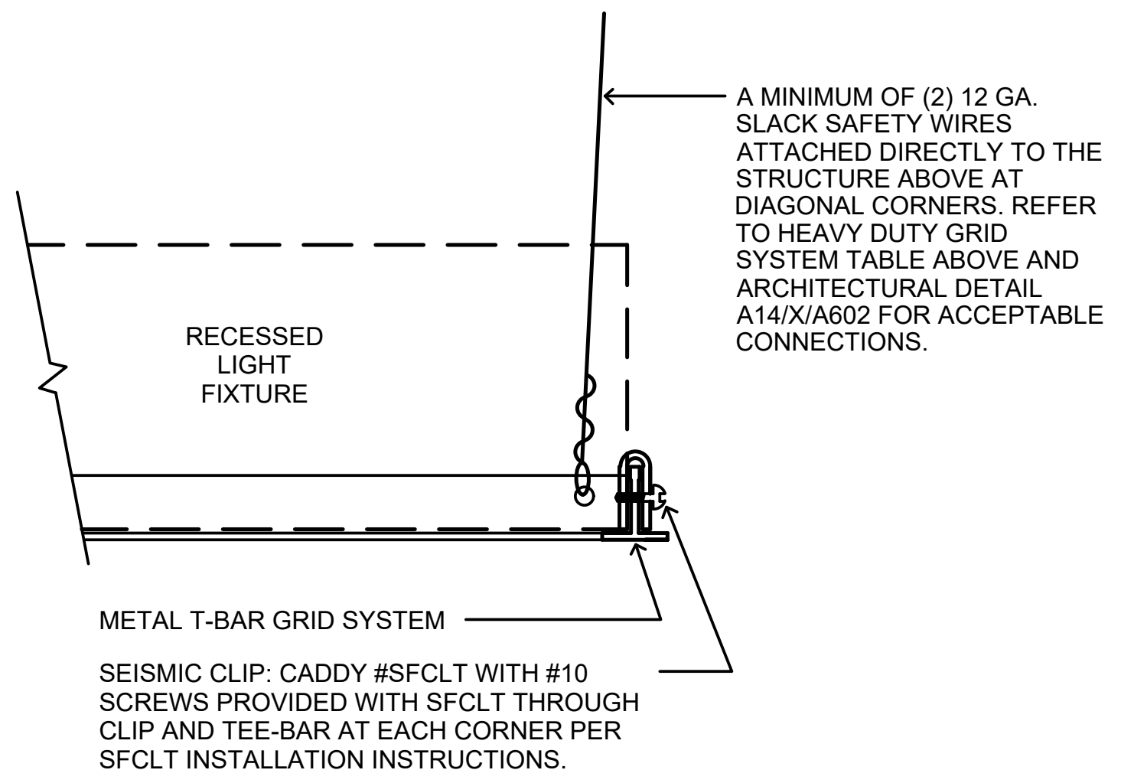
No Scale


CEILING FRAMING MEMBER
2X6 BLOCKING AS REQUIRED FOR FIXTURE SUPPORT
(3) 10d END NAIL EACH END
FINISH CEILING
LIGHTING FIXTURE TO BE LISTED FOR LOW DENSITY CEILING
MAX. WEIGHT=22.8 LBS. PER 8'
MAX. LENGTH=8'
#12 WOOD SCREWS WITH WASHER, (2) AT EACH END OF LIGHT FIXTURE WITH 1-1/2" MIN. PENETRATION INTO BLOCKING.

J1 Surface Mount Light Fixture Mounting Detail

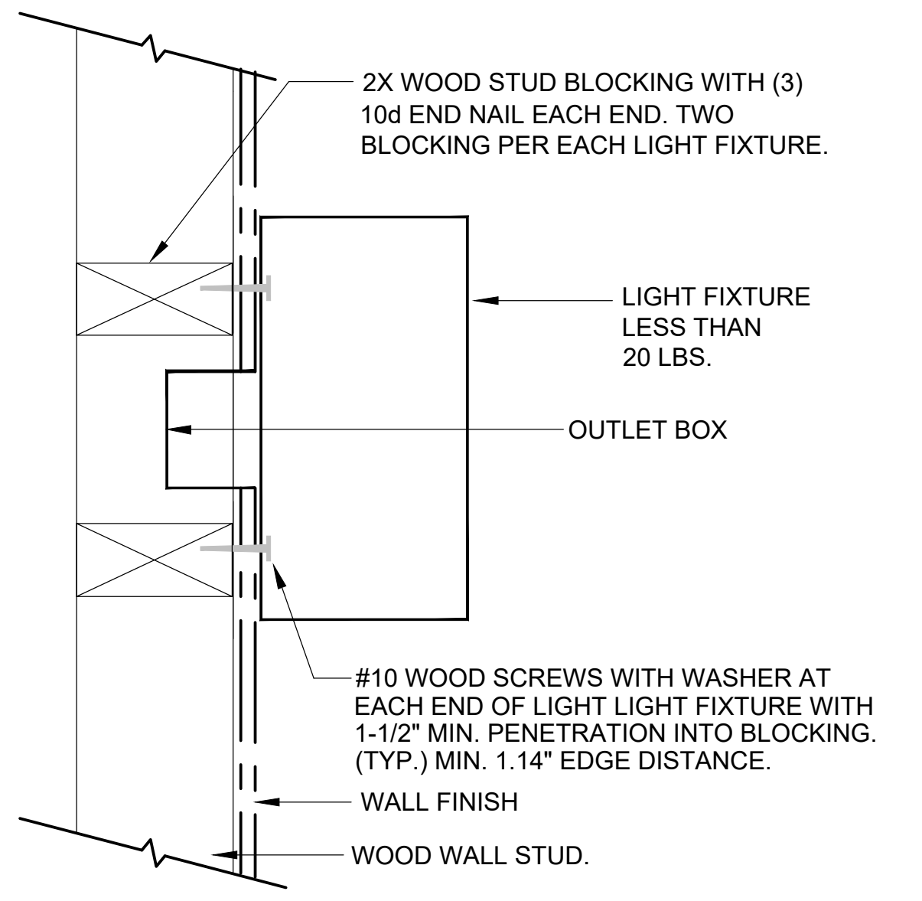
No Scale

HEAVY DUTY GRID SYSTEM			
LIGHT FIXTURE DIMENSION	WEIGHT	NO. OF HANGER WIRES	TYPE
< 24" x 48"	<= 56 LBS	2	SLACK
> 24" x 48"	> 56 LBS	4	TAUT


A MINIMUM OF (2) 12 GA. SLACK SAFETY WIRES ATTACHED DIRECTLY TO THE STRUCTURE ABOVE AT DIAGONAL CORNERS. REFER TO HEAVY DUTY GRID SYSTEM TABLE ABOVE AND ARCHITECTURAL DETAIL A14/X/A602 FOR ACCEPTABLE CONNECTIONS.
RECESSED LIGHT FIXTURE
METAL T-BAR GRID SYSTEM
SEISMIC CLIP: CADDY #SFCLT WITH #10 SCREWS PROVIDED WITH SFCLT THROUGH CLIP AND TEE-BAR AT EACH CORNER PER SFCLT INSTALLATION INSTRUCTIONS.

E1 Lay-in Fixture Grid Mounting Detail

No Scale


2X WOOD STUD BLOCKING WITH (3) 10d END NAIL EACH END. TWO BLOCKING PER EACH LIGHT FIXTURE.
LIGHT FIXTURE LESS THAN 20 LBS.
OUTLET BOX
#10 WOOD SCREWS WITH WASHER AT EACH END OF LIGHT LIGHT FIXTURE WITH 1-1/2" MIN. PENETRATION INTO BLOCKING. (TYP.) MIN. 1.14" EDGE DISTANCE.
WALL FINISH
WOOD WALL STUD.

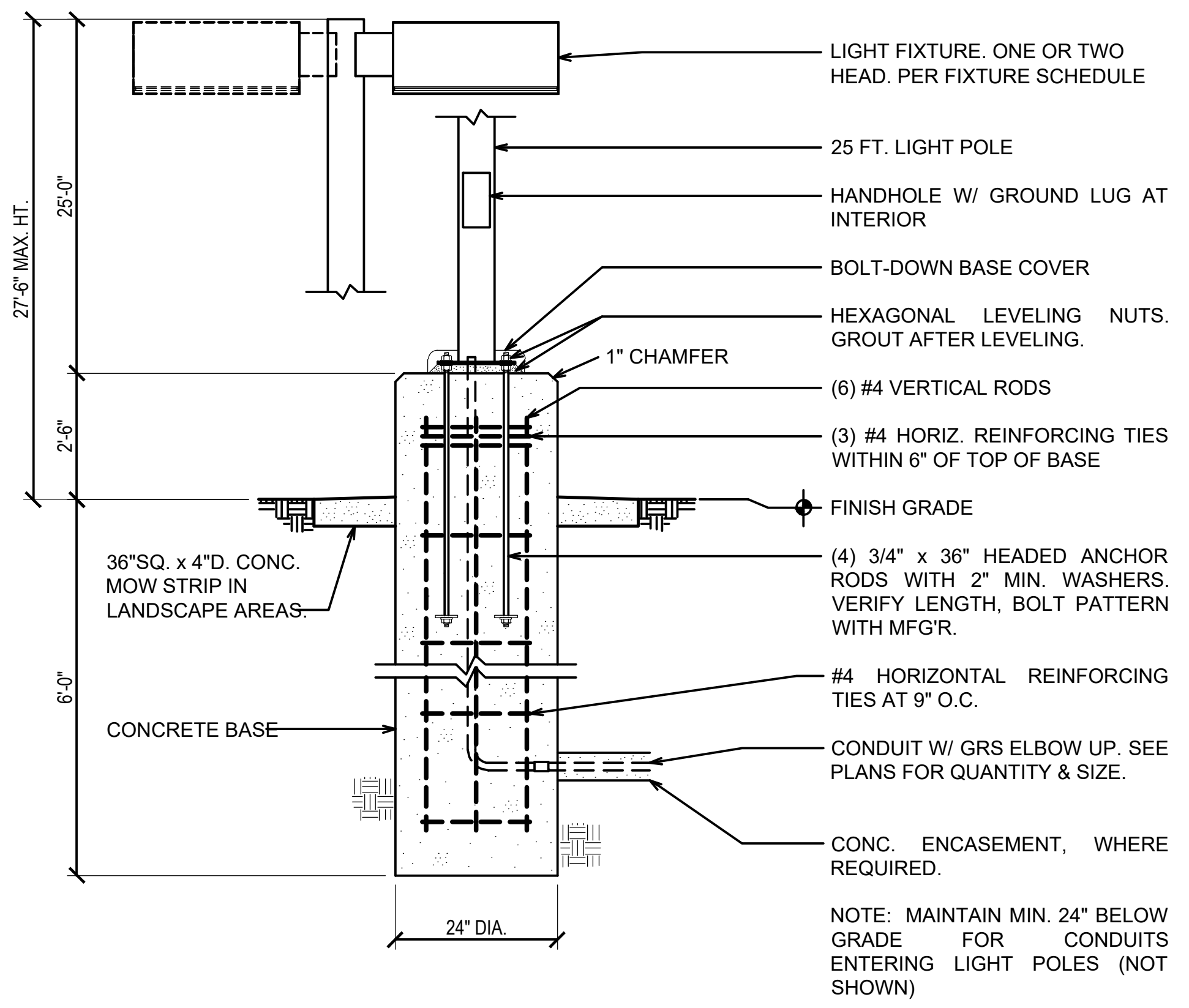
A1 Wall Fixture Mounting Detail

No Scale

TYPE OF SPACE	MANUAL ON/OFF/OVERRIDE	DIMMING SWITCH	AUTOMATIC DAYLIGHT DIMMING WHEN AVAILABLE	OCCUPANCY SENSOR ON	OCCUPANCY SENSOR ON TO 70%	OCCUPANCY SENSOR REDUCE TO 50% AFTER 10 MIN	OCCUPANCY SENSOR OFF AFTER 20 MIN	GATEWAY OPEN HOURS SCHEDULE ON	GATEWAY CLOSED & HOLIDAY HOURS SCHEDULE OFF	GATEWAY SHADOWS SWITCHES DURING OPEN HOURS	COLOR TOUCHSCREEN WITH AT LEAST 4 SCENES	REMOTE ON/OFF CONTROL OR KEY SWITCH	CONTROLLED POWER RECEPTACLES	DEMAND RESPONSE CAPABLE	ASTRONOMIC TIMECLOCK ON/OFF	ASTRONOMIC TIMECLOCK DIMMING	ASTRONOMIC TIMECLOCK A/B RELAYS
ENTRY / LOBBY	X	X	X	X		X		X	X	X	X		X				
CORRIDOR	X		X	X		X		X	X	X							
OFFICE	X	X	X		X		X						X				
CLASSROOM	X	X	X		X		X										
CONFERENCE ROOM	X	X	X		X		X						X				
MULTI-PURPOSE	X	X	X		X		X				X						
GYMNASIUM	X	X	X		X		X				X						
CAFETERIA	X	X	X		X		X				X						
KITCHEN	X	X	X		X		X										
KITCHENETTES IN OFFICES	X	X	X		X		X										
COPY ROOMS	X	X	X		X		X						X				
LARGE RESTROOM				X		X	X					X					
STAIRWELLS			X	X		X	X										
STORAGE <100 S.F.	X						X										
ELECTRICAL ROOM	X																
OTHER	X	X	X		X		X										
BUILDING >10,000 S.F.														X			
BUILDING EXTERIOR															X	X	
PEDESTRIAN WALKS															X		
PARKING LOT															X		X

A5 Lighting Control Matrix

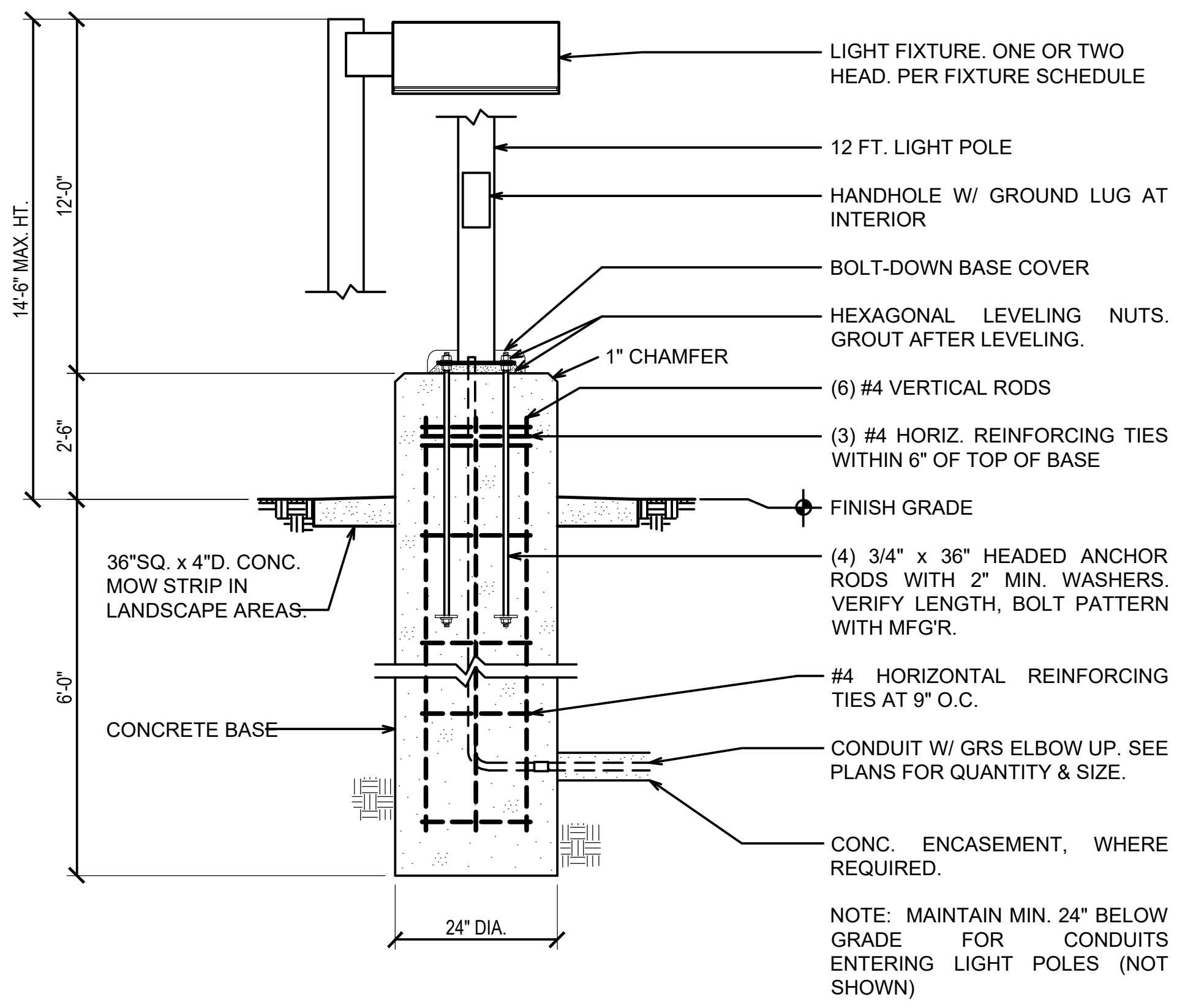
No Scale


27'-6" MAX. HT.
25'-0"
2'-6"
6'-0"
LIGHT FIXTURE. ONE OR TWO HEAD. PER FIXTURE SCHEDULE
25 FT. LIGHT POLE
HANDHOLE W/ GROUND LUG AT INTERIOR
BOLT-DOWN BASE COVER
HEXAGONAL LEVELING NUTS. GROUT AFTER LEVELING.
1" CHAMFER
(6) #4 VERTICAL RODS
(3) #4 HORIZ. REINFORCING TIES WITHIN 6" OF TOP OF BASE
FINISH GRADE
36"SQ. x 4"D. CONC. MOW STRIP IN LANDSCAPE AREAS.
(4) 3/4" x 36" HEADED ANCHOR RODS WITH 2" MIN. WASHERS. VERIFY LENGTH, BOLT PATTERN WITH MFG'R.
#4 HORIZONTAL REINFORCING TIES AT 9" O.C.
CONCRETE BASE
CONDUIT W/ GRS ELBOW UP. SEE PLANS FOR QUANTITY & SIZE.
CONC. ENCASEMENT, WHERE REQUIRED.
24" DIA.
NOTE: MAINTAIN MIN. 24" BELOW GRADE FOR CONDUITS ENTERING LIGHT POLES (NOT SHOWN)

DSA REVIEW IS NOT REQUIRED FOR LIGHT POLES LESS THAN 35 FEET ABOVE ADJACENT GRADE. NOT PART OF THIS APPROVAL.

A9 Pole Light Mounting Detail

No Scale


14'-6" MAX. HT.
12'-0"
2'-6"
6'-0"
LIGHT FIXTURE. ONE OR TWO HEAD. PER FIXTURE SCHEDULE
12 FT. LIGHT POLE
HANDHOLE W/ GROUND LUG AT INTERIOR
BOLT-DOWN BASE COVER
HEXAGONAL LEVELING NUTS. GROUT AFTER LEVELING.
1" CHAMFER
(6) #4 VERTICAL RODS
(3) #4 HORIZ. REINFORCING TIES WITHIN 6" OF TOP OF BASE
FINISH GRADE
36"SQ. x 4"D. CONC. MOW STRIP IN LANDSCAPE AREAS.
(4) 3/4" x 36" HEADED ANCHOR RODS WITH 2" MIN. WASHERS. VERIFY LENGTH, BOLT PATTERN WITH MFG'R.
#4 HORIZONTAL REINFORCING TIES AT 9" O.C.
CONCRETE BASE
CONDUIT W/ GRS ELBOW UP. SEE PLANS FOR QUANTITY & SIZE.
CONC. ENCASEMENT, WHERE REQUIRED.
24" DIA.
NOTE: MAINTAIN MIN. 24" BELOW GRADE FOR CONDUITS ENTERING LIGHT POLES (NOT SHOWN)

DSA REVIEW IS NOT REQUIRED FOR LIGHT POLES LESS THAN 35 FEET ABOVE ADJACENT GRADE. NOT PART OF THIS APPROVAL.

A14 Post Top Lighting Mounting Detail

No Scale

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

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Merced City Unified School District
Merced, CA, 95340

Project

TYPICAL INFORMATION
LIGHTING SYSTEMS - FIXTURE SCHEDULE & DETAILS

Drawing

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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

Designed By: RH

Scale:
Drawn By: HDE
Project Number: 2533
Checked By: RH
Date: 2/9/26
Reviewed By: RH

X/E201

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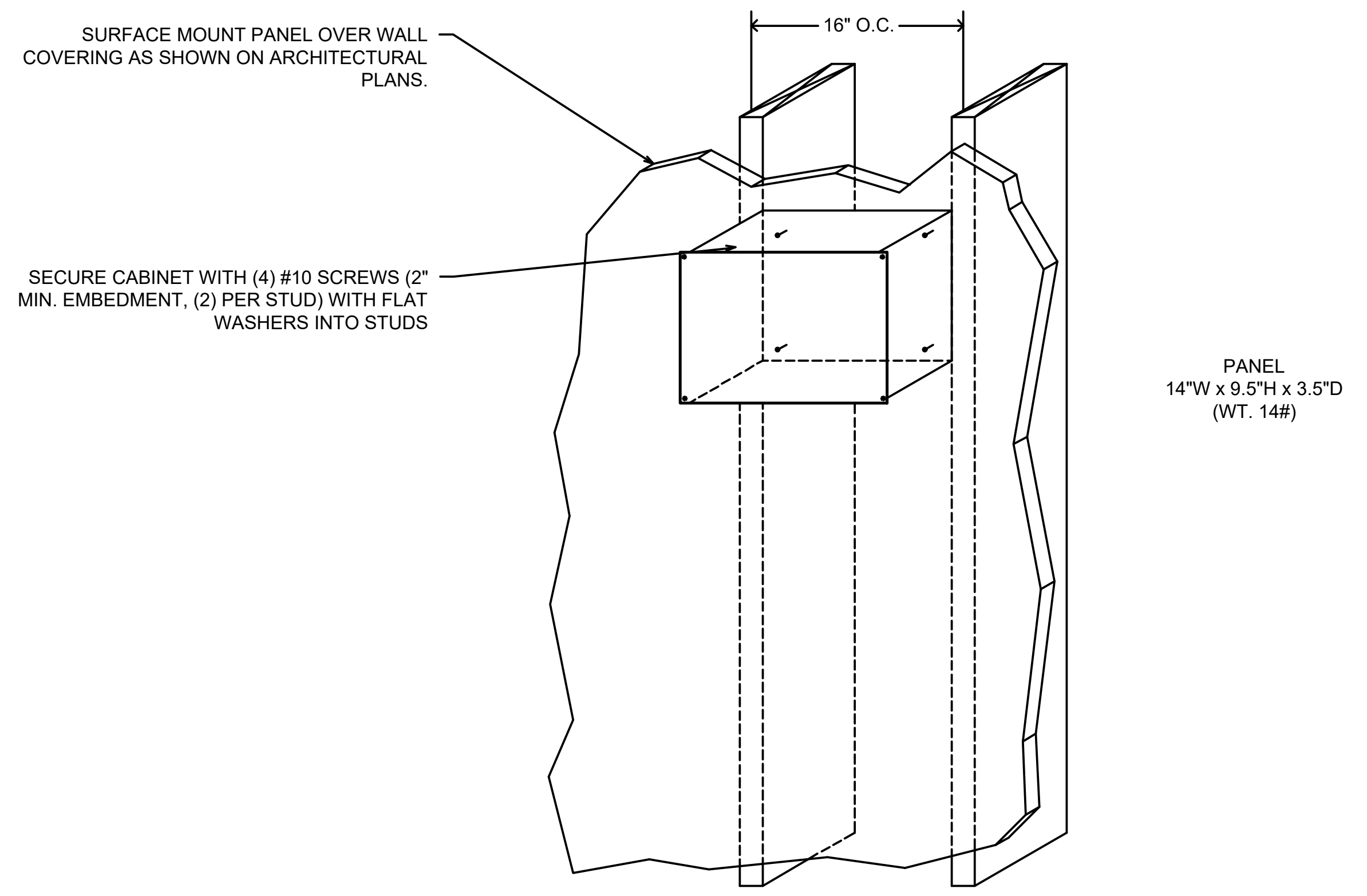
DSA File No.:
24-35

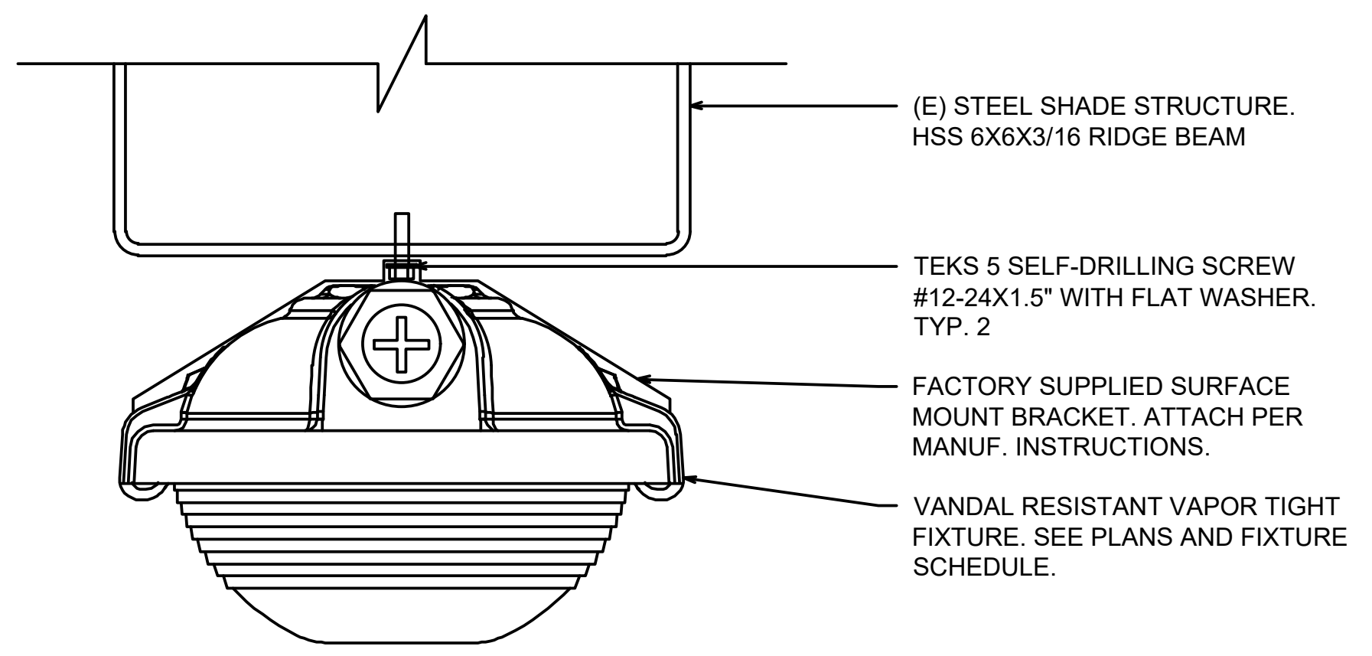
DSA Application No.:
02-123716

Agency Approval


16" O.C.
SURFACE MOUNT PANEL OVER WALL COVERING AS SHOWN ON ARCHITECTURAL PLANS.
SECURE CABINET WITH (4) #10 SCREWS (2" MIN. EMBEDMENT, (2) PER STUD) WITH FLAT WASHERS INTO STUDS
PANEL
14"W x 9.5"H x 3.5"D
(WT. 14#)

D1 SURFACE MOUNT LCP MOUNTING DETAIL

No Scale


(E) STEEL SHADE STRUCTURE. HSS 6X6X3/16 RIDGE BEAM
TEKS 5 SELF-DRILLING SCREW #12-24X1.5" WITH FLAT WASHER. TYP. 2
FACTORY SUPPLIED SURFACE MOUNT BRACKET. ATTACH PER MANUF. INSTRUCTIONS.
VANDAL RESISTANT VAPOR TIGHT FIXTURE. SEE PLANS AND FIXTURE SCHEDULE.

A1 SURFACE MOUNT FIXTURE AT SHADE STRUCTURE MOUNTING DETAIL

No Scale

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Merced City Unified School District
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LIGHTING SYSTEMS - FIXTURE DETAILS

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No. C-20,307
Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

Designed By: RH
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Scale:
Drawn By: HDE
Project Number: 2533
Checked By: RH
Date: 2/9/26
Reviewed By: RH

X/E202

(E)PANEL "A" SCHEDULE

120/208V 3Φ 4W

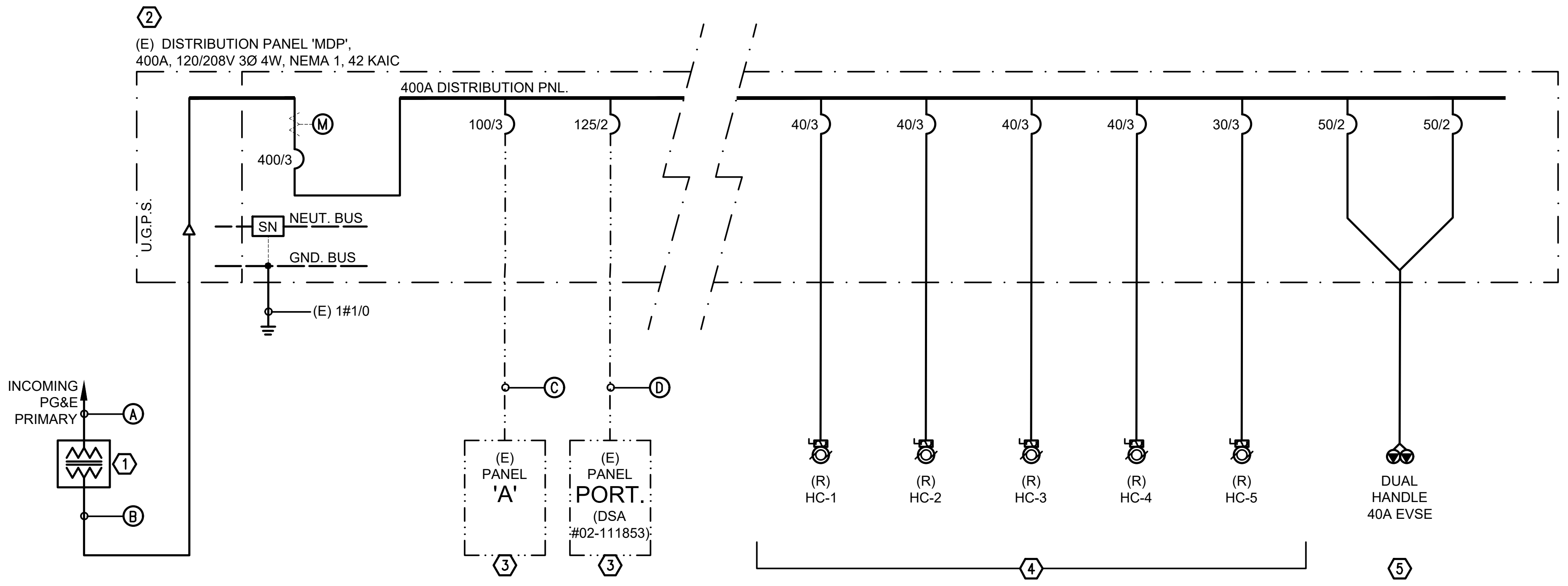
INDOOR/FLUSH

CKT. NO.	DESCRIPTION	BREAKER		VA	Φ	VA	BREAKER		DESCRIPTION	CKT. NO.
		AMPS	POLE(S)				AMPS	POLE(S)		
1	REC - CLASSROOM 113*	20	1	1260	A	1620	20	1	REC - PSYCH/FILE STOR 114, COUNSELOR 115	2
3	REC - CLASSROOM 112*	20	1	1260	B	900	20	1	REC - RESTROOMS, CUST., CLASS 107 COUNTER	4
5	REC - CLASSROOM 111*	20	1	1080	C	1440	20	1	REC - CLASSROOM 107*	6
7	REC - CALM ROOM *	20	1	360	A	900	20	1	REC - RECEPTION*	8
9	REC - STAFF RR'S*	20	1	360	B	1080	20	1	REC - RECEPTION*	10
11	REC - CLASSROOM 113*	20	1	1260	C	900	20	1	REC - DIRECTOR*	12
13	LTS - CLASSROOM 117*	20	1	306	A	900	20	1	REC - OFFICE 101*	14
15	LTS - CLASSROOM 116*	20	1	306	B	777	20	1	LTS - RESTROOMS, CUST, CLASS 107, 114, 115*	16
17	LTS - CLASSROOM 115*	20	1	306	C	0	20	1	SPARE*	18
19	LTS - ADMIN*	20	1	542	A	597	20	2	LTS - PARKING LOT*	20
21	REC - CLASSROOM 112*	20	1	1260	B	597	--	--	--	22
23	REC - CLASSROOM 111*	20	1	1260	C		20	1	RM 2**	24
25	REC - ROOF	20	1	540	A	360	20	1	REC - ROOF	26
27	WATER HEATER IWH-1 RM *	40	1	3600	B		20	1	RM 2**	28
29	SPARE	20	1	0	C	382	20	1	LTS - EXTERIOR / LCP*	30
31	FIRE ALARM CTRL PNL * ***	20	1	180	A	180	20	1	SECURITY PANEL	32
33	RM 2 BOX DOOR**	20	1		B	180	20	1	EMS	34
35	REC - CLASSROOM 107*	20	1	900	C	180	20	1	REC - TELEPHONE PANEL	36
37	SPARE*	20	1	0	A	1333	20	3	WATER HEATER EWH-1*	38
39	RM 2 BOX**	20	1		B	1333	--	--	--	40
41	WATER HEATER IWH-1*	40	1	3600	C	1333	--	--	--	42

LOAD SUMMARY:	Φ A	9078 VA
	Φ B	11653 VA
	Φ C	12641 VA
CONNECTED LOAD:		33.4 kVA
MAX CURRENT:		105 A

BUSING: 100 AMP CU
MAIN: 100A M.L.O.
SCCR: 10,000 AMPS RATED
TYPE: SIEMENS
NOTE:
* NEW/MODIFIED LOAD UNDER THIS APPLICATION
** IDENTIFY/TRACE CIRCUIT
*** PROVIDE RED LOCK-ON DEVICE

A1 Panel Schedules
No Scale



J7 Single Line Diagram
No Scale

A7 Not Used
No Scale

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

KEYNOTES ⬡

1. EXISTING PG&E TRANSFORMER PAD TO REMAIN.
2. EXSISTING 400A, 120/208V, 3Ø, 4W, NEMA 1, 42KAIC, DISTRIBUTION SWITCHBOARD TO REMAIN. DISCONNECT EXISTING MAIN BONDING JUMPER. PROVIDE METER BYPASS KIT. REMOVE EXISTING REMOTE METER AND PROVIDE BYPASS. COORDINATE ALL WORK WITH PG&E AND DISTRICT.
3. EXISTING PANEL TO REMAIN. PROVIDE NEW CIRCUIT BREAKERS AS REQUIRED. PROVIDE LABEL PER G5/X/E303.
4. DISCONNECT EXISTING ROOF MOUNTED HVAC UNIT. RECONNECT NEW HC UNIT. PROVIDE NEW CIRCUIT BREAKER AS SHOWN IN EXISTING LOCATION. PROVIDE NEW CIRCUIT BREAKERS, WIRE AND CONDUIT AS REQUIRED. SEE SHEET A/E211.
5. NEW EVSE IN PARKING LOT. PROVIDE NEW CIRCUIT BREAKERS, WIRE AND CONDUIT. SEE SHEET SD/E/101.

FEEDER SCHEDULE ○

A. EXISTING PG&E PRIMARY TO REMAIN.
B. EXISTING PG&E SERVICE TO REMAIN.
C. EXISTING WIRING TO REMAIN.
D. EXISTING WIRING TO REMAIN.

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Community Day School Modernization
Merced City Unified School District
Merced, CA, 95340

Project

TYPICAL INFORMATION
POWER - SINGLE LINE DIAGRAM & VOLTAGE DROP CALCULATION

Drawing

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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

	Designed By: RH	
Scale:	Drawn By: HDE	X/E301
Project Number: 2533	Checked By: RH	
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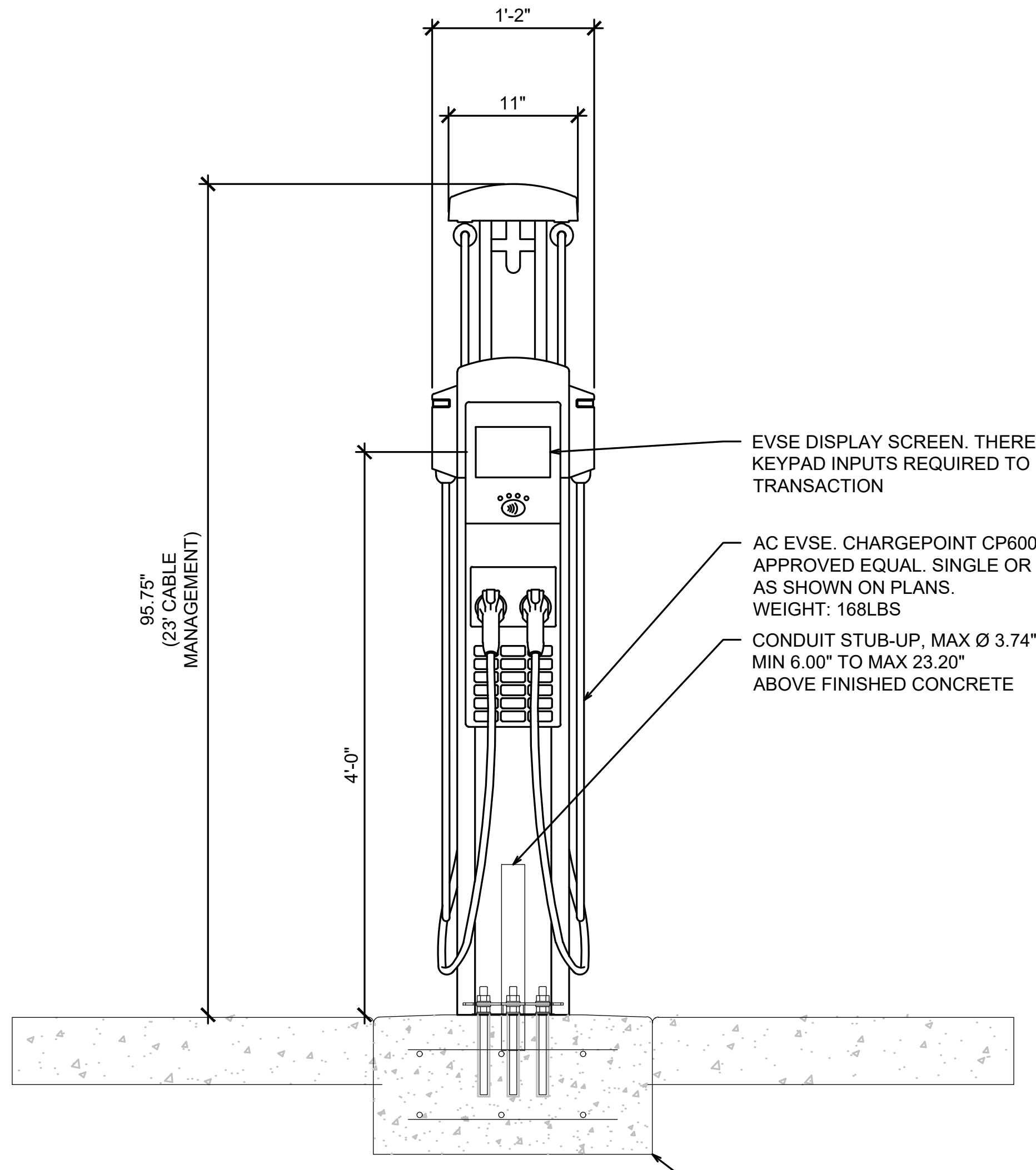
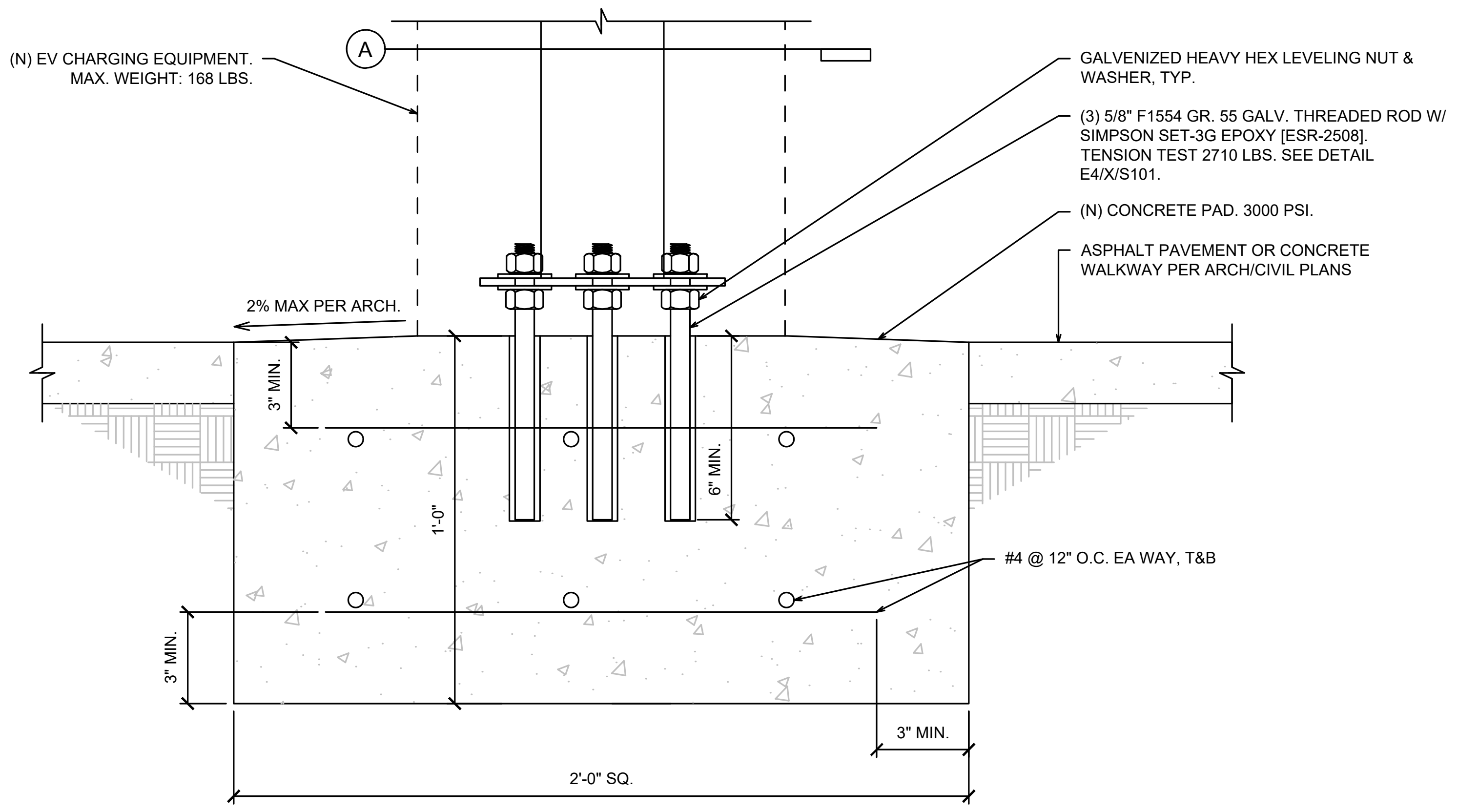
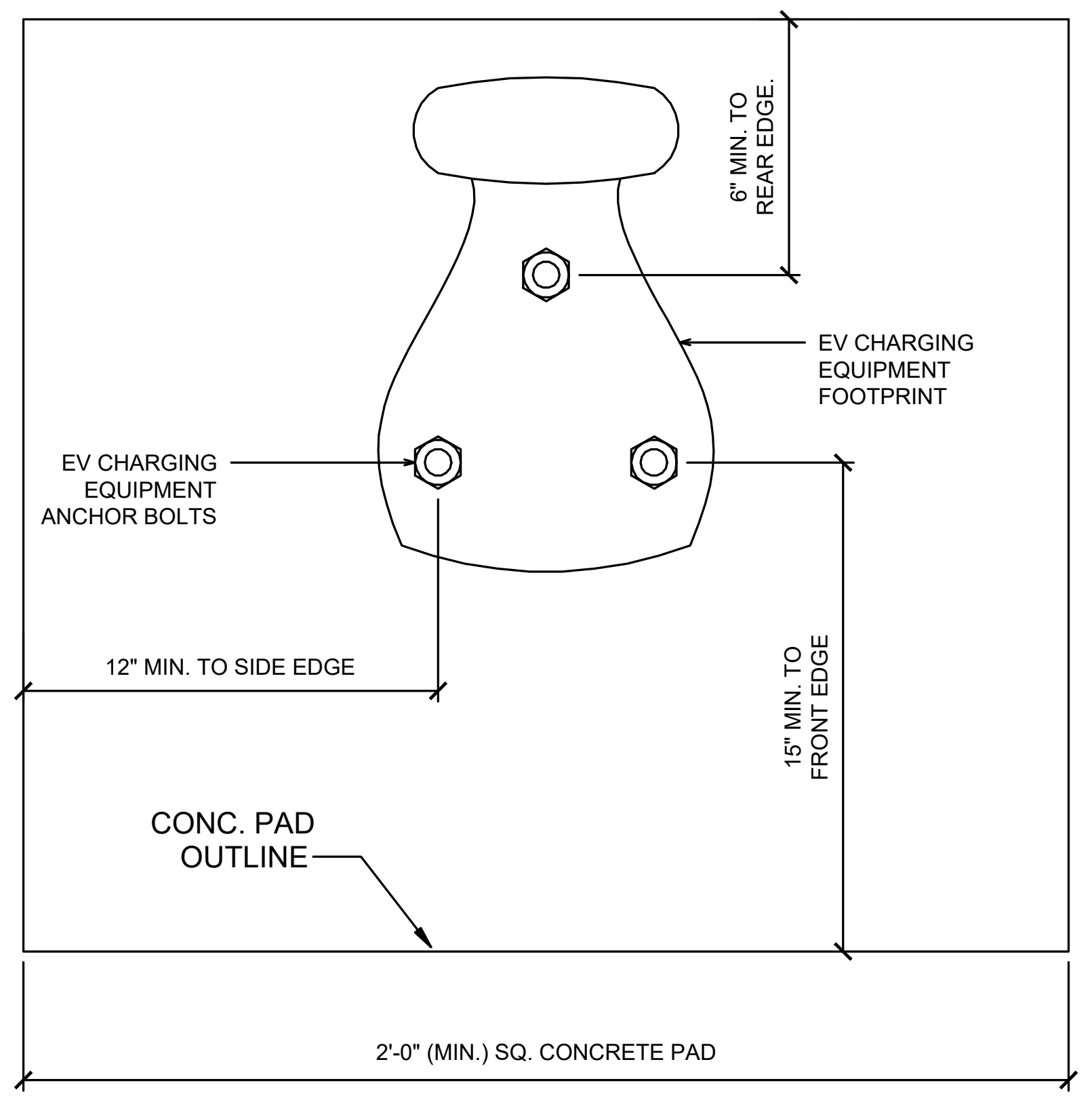

1'-2"
11"
95.75"
(23' CABLE
MANAGEMENT)
4'-0"
EVSE DISPLAY SCREEN. THERE ARE NO KEYPAD INPUTS REQUIRED TO PROCESS A TRANSACTION
AC EVSE. CHARGEPOINT CP6000 SERIES OR APPROVED EQUAL. SINGLE OR DUAL HANDLE AS SHOWN ON PLANS.
WEIGHT: 168LBS
CONDUIT STUB-UP, MAX Ø 3.74"
MIN 6.00" TO MAX 23.20"
ABOVE FINISHED CONCRETE
SEE DETAIL A11/X/E302 FOR MOUNTING DETAIL


A
(N) EV CHARGING EQUIPMENT.
MAX. WEIGHT: 168 LBS.
GALVENIZED HEAVY HEX LEVELING NUT & WASHER, TYP.
(3) 5/8" F1554 GR. 55 GALV. THREADED ROD W/ SIMPSON SET-3G EPOXY [ESR-2508]. TENSION TEST 2710 LBS. SEE DETAIL E4/X/S101.
(N) CONCRETE PAD. 3000 PSI.
ASPHALT PAVEMENT OR CONCRETE WALKWAY PER ARCH/CIVIL PLANS
2% MAX PER ARCH.
3" MIN.
6" MIN.
1'-0"
#4 @ 12" O.C. EA WAY, T&B
3" MIN.
3" MIN.
2'-0" SQ.



(A) PLAN VIEW

A1	Not Used	
No Scale		

A6	EVSE Elevation	
No Scale		

A11	EVSE Mounting Detail	
No Scale		

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Merced City Unified School District
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Project

TYPICAL INFORMATION
POWER - EV CHARGING DETAILS

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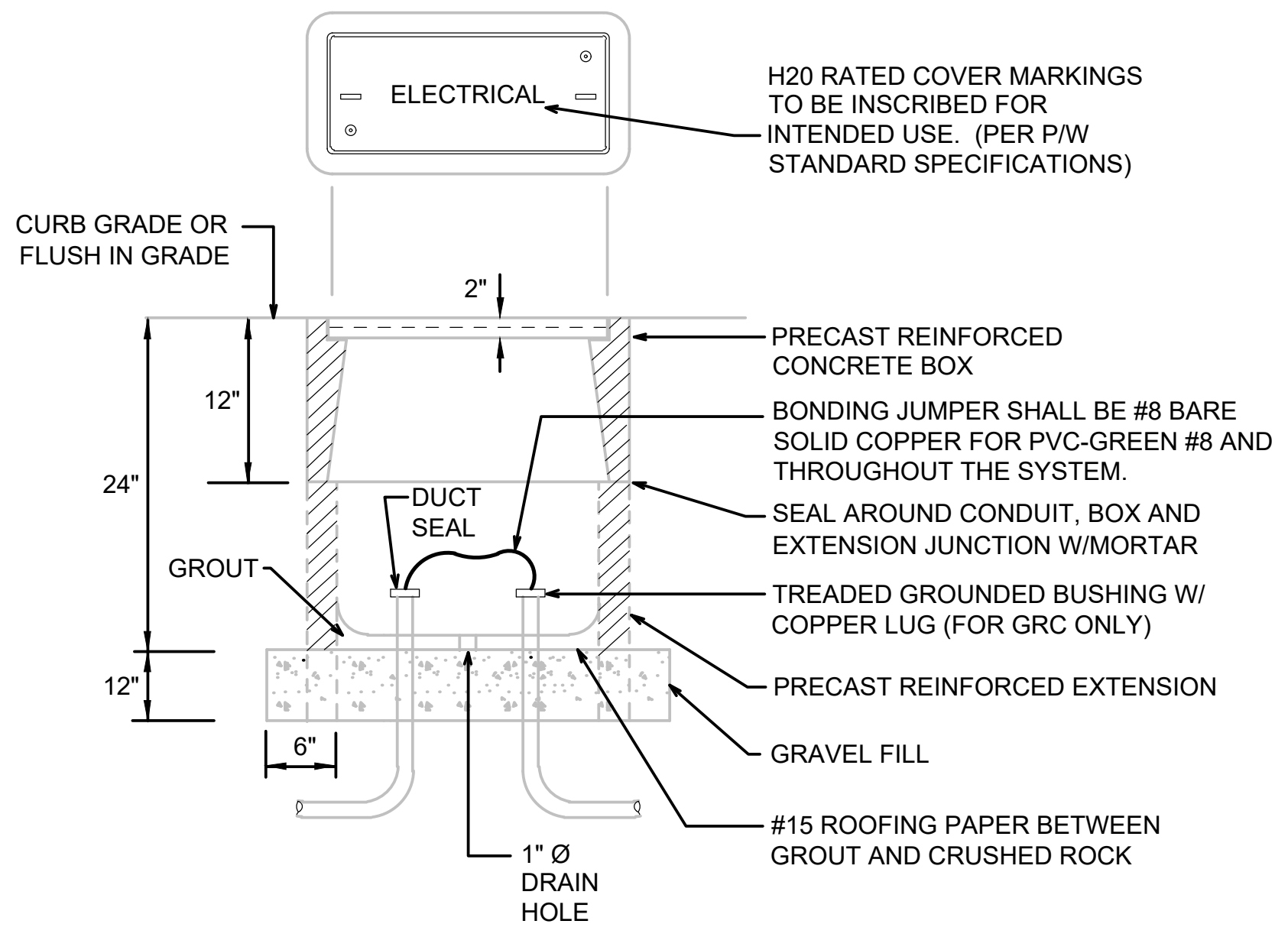
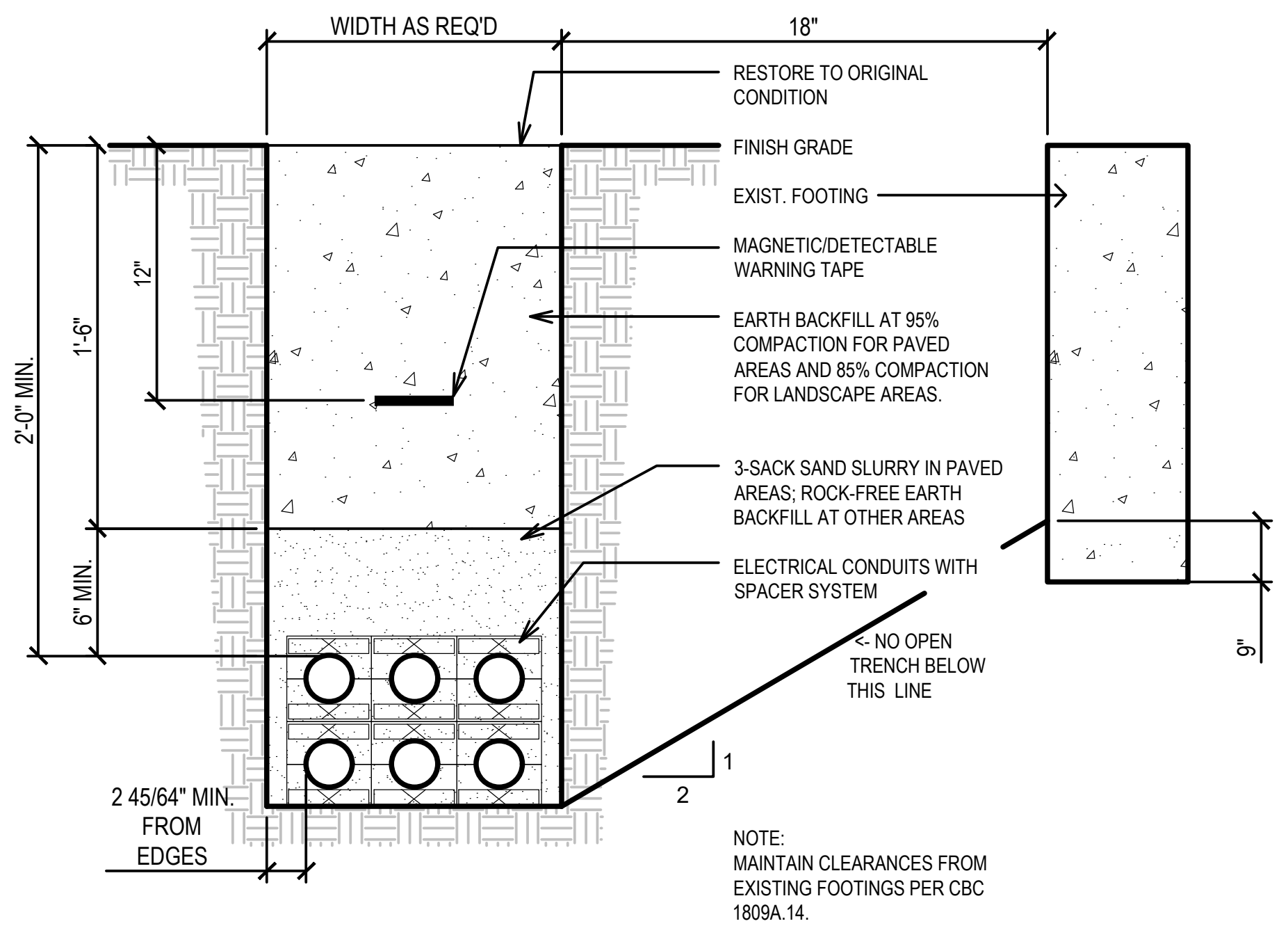

ELECTRICAL
H20 RATED COVER MARKINGS TO BE INSCRIBED FOR INTENDED USE. (PER P/W STANDARD SPECIFICATIONS)
CURB GRADE OR FLUSH IN GRADE
2"
12"
24"
12"
6"
GROUT
DUCT SEAL
PRECAST REINFORCED CONCRETE BOX
BONDING JUMPER SHALL BE #8 BARE SOLID COPPER FOR PVC-GREEN #8 AND THROUGHOUT THE SYSTEM.
SEAL AROUND CONDUIT, BOX AND EXTENSION JUNCTION W/MORTAR
TREADED GROUNDED BUSHING W/ COPPER LUG (FOR GRC ONLY)
PRECAST REINFORCED EXTENSION
GRAVEL FILL
#15 ROOFING PAPER BETWEEN GROUT AND CRUSHED ROCK
1" Ø DRAIN HOLE

M1 Typical Pull Box Detail
No Scale


WIDTH AS REQ'D
18"
RESTORE TO ORIGINAL CONDITION
FINISH GRADE
EXIST. FOOTING
MAGNETIC/DETECTABLE WARNING TAPE
EARTH BACKFILL AT 95% COMPACTION FOR PAVED AREAS AND 85% COMPACTION FOR LANDSCAPE AREAS.
3-SACK SAND SLURRY IN PAVED AREAS; ROCK-FREE EARTH BACKFILL AT OTHER AREAS
ELECTRICAL CONDUITS WITH SPACER SYSTEM
<- NO OPEN TRENCH BELOW THIS LINE
2'-0" MIN.
1'-6"
12"
6" MIN.
9"
1
2
2 45/64" MIN. FROM EDGES

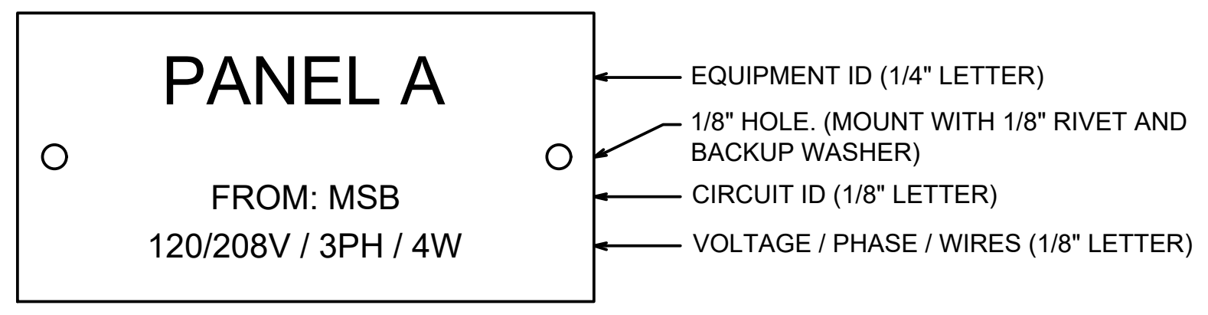
NOTE:
MAINTAIN CLEARANCES FROM EXISTING FOOTINGS PER CBC 1809A.14.

M5 Typical Trench Detail
No Scale

M9 Not Used
No Scale

M14 Not Used
No Scale

G1 Not Used
No Scale

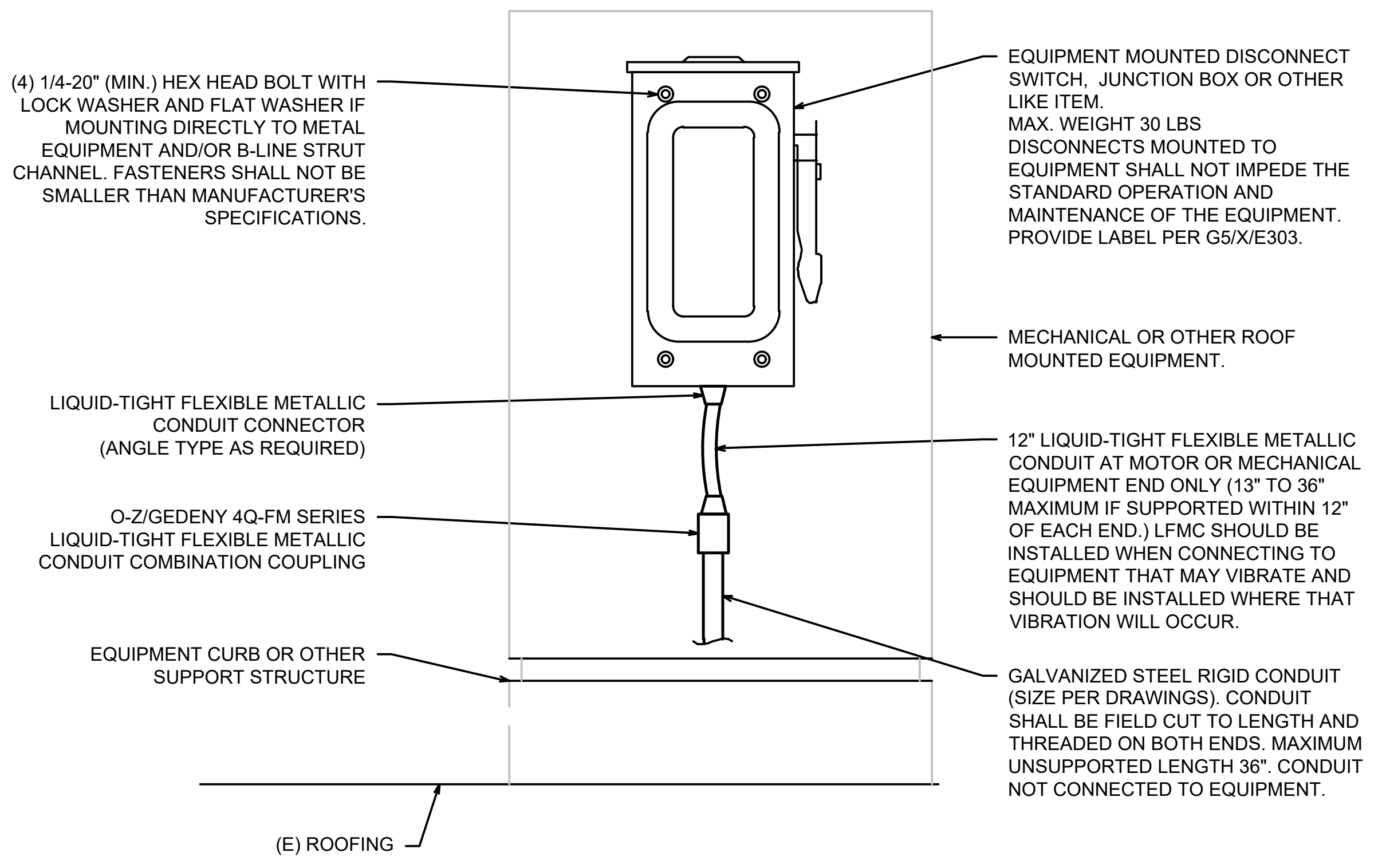

PANEL A
FROM: MSB
120/208V / 3PH / 4W
EQUIPMENT ID (1/4" LETTER)
1/8" HOLE. (MOUNT WITH 1/8" RIVET AND BACKUP WASHER)
CIRCUIT ID (1/8" LETTER)
VOLTAGE / PHASE / WIRES (1/8" LETTER)

LABEL TYPE:	ENGRAVED 2 LAYER PHENOLIC (OR EQUAL)
LABEL SIZE:	3"W X 1-1/2"H
LABEL COLOR:	BLACK: 120/208/240V RED: 277/480V YELLOW: OVER 480V
TEXT COLOR:	WHITE (YELLOW TAGS SHALL BE BLACK TEXT)

LABEL COLORS SPECIFIED IN WRITTEN SPECIFICATIONS SHALL TAKE PRECEDENCE UON.

EQUIPMENT ID:	SHALL BE AS IDENTIFIED ON THE PLANS BY THE EQUIPMENT SPECIFIER.
CIRCUIT ID:	SHALL BE THE CIRCUIT SOURCE SWITCHBOARD, PANEL, MCC, ETC.
VOLTAGE / PHASE / WIRES:	VOLTAGE SHALL BE THE COMPLETE VOLTAGE PHASE SHALL BE EITHER 1PH OR 3PH WIRES SHALL BE 2W, 3W OR 4W.

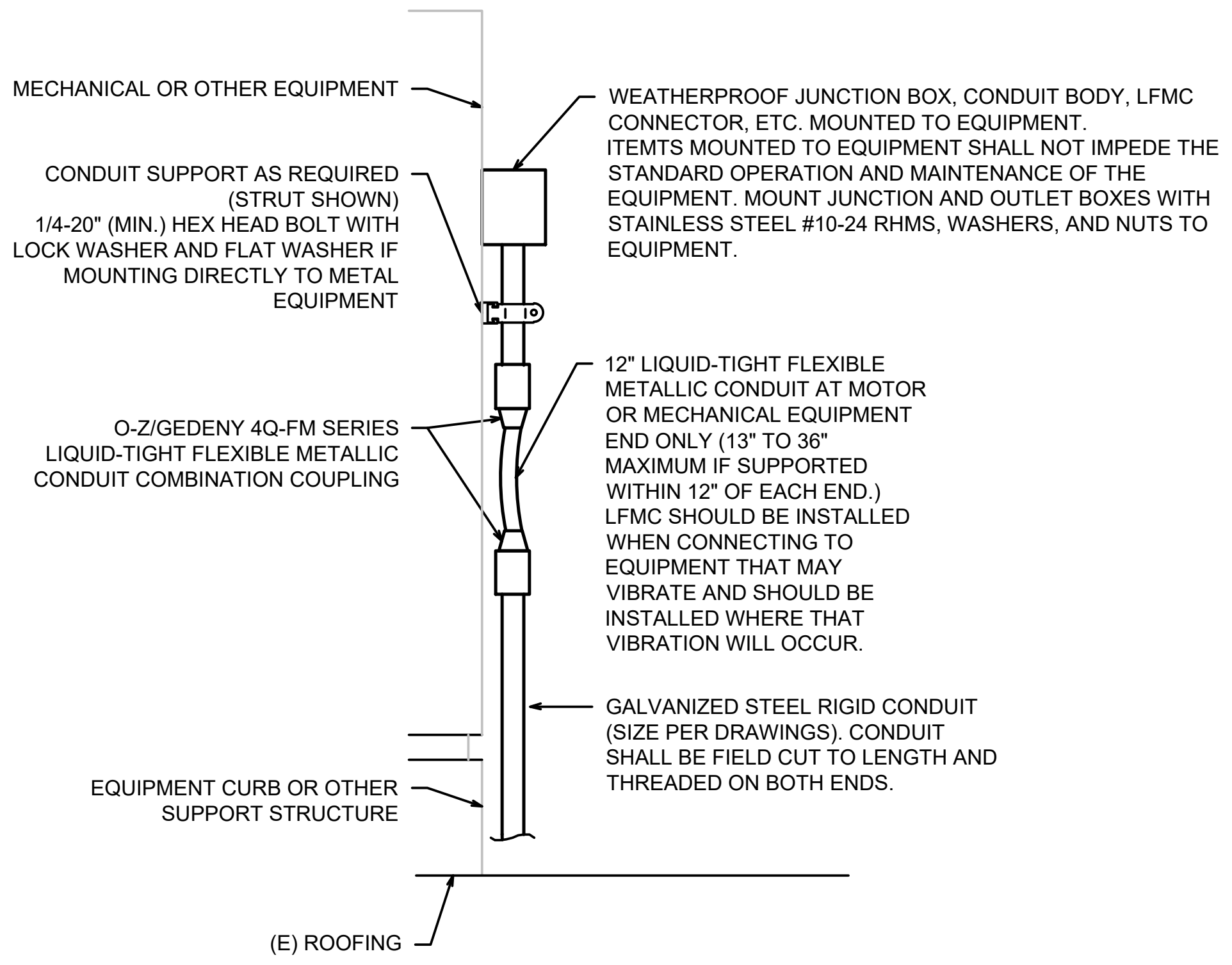
G5 Equipment & Disconnect Label
No Scale


(4) 1/4-20" (MIN.) HEX HEAD BOLT WITH LOCK WASHER AND FLAT WASHER IF MOUNTING DIRECTLY TO METAL EQUIPMENT AND/OR B-LINE STRUT CHANNEL. FASTENERS SHALL NOT BE SMALLER THAN MANUFACTURER'S SPECIFICATIONS.
LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT CONNECTOR (ANGLE TYPE AS REQUIRED)
O-Z/GEDENY 4Q-FM SERIES LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT COMBINATION COUPLING
EQUIPMENT CURB OR OTHER SUPPORT STRUCTURE
(E) ROOFING
EQUIPMENT MOUNTED DISCONNECT SWITCH, JUNCTION BOX OR OTHER LIKE ITEM.
MAX. WEIGHT 30 LBS
DISCONNECTS MOUNTED TO EQUIPMENT SHALL NOT IMPEDE THE STANDARD OPERATION AND MAINTENANCE OF THE EQUIPMENT.
PROVIDE LABEL PER G5/X/E303.
MECHANICAL OR OTHER ROOF MOUNTED EQUIPMENT.
12" LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT AT MOTOR OR MECHANICAL EQUIPMENT END ONLY (13" TO 36" MAXIMUM IF SUPPORTED WITHIN 12" OF EACH END.) LFMC SHOULD BE INSTALLED WHEN CONNECTING TO EQUIPMENT THAT MAY VIBRATE AND SHOULD BE INSTALLED WHERE THAT VIBRATION WILL OCCUR.
GALVANIZED STEEL RIGID CONDUIT (SIZE PER DRAWINGS). CONDUIT SHALL BE FIELD CUT TO LENGTH AND THREADED ON BOTH ENDS. MAXIMUM UNSUPPORTED LENGTH 36". CONDUIT NOT CONNECTED TO EQUIPMENT.

G10 Equipment Mounted Disconnect Connection Detail (Roof)
No Scale

A1 Not Used
No Scale

A8 Not Used
No Scale


MECHANICAL OR OTHER EQUIPMENT
CONDUIT SUPPORT AS REQUIRED (STRUT SHOWN)
1/4-20" (MIN.) HEX HEAD BOLT WITH LOCK WASHER AND FLAT WASHER IF MOUNTING DIRECTLY TO METAL EQUIPMENT
O-Z/GEDENY 4Q-FM SERIES LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT COMBINATION COUPLING
EQUIPMENT CURB OR OTHER SUPPORT STRUCTURE
(E) ROOFING
WEATHERPROOF JUNCTION BOX, CONDUIT BODY, LFMC CONNECTOR, ETC. MOUNTED TO EQUIPMENT.
ITEMTS MOUNTED TO EQUIPMENT SHALL NOT IMPEDE THE STANDARD OPERATION AND MAINTENANCE OF THE EQUIPMENT. MOUNT JUNCTION AND OUTLET BOXES WITH STAINLESS STEEL #10-24 RHMS, WASHERS, AND NUTS TO EQUIPMENT.
12" LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT AT MOTOR OR MECHANICAL EQUIPMENT END ONLY (13" TO 36" MAXIMUM IF SUPPORTED WITHIN 12" OF EACH END.) LFMC SHOULD BE INSTALLED WHEN CONNECTING TO EQUIPMENT THAT MAY VIBRATE AND SHOULD BE INSTALLED WHERE THAT VIBRATION WILL OCCUR.
GALVANIZED STEEL RIGID CONDUIT (SIZE PER DRAWINGS). CONDUIT SHALL BE FIELD CUT TO LENGTH AND THREADED ON BOTH ENDS.

A13 Equipment Connection Detail (Roof)
No Scale

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Project

TYPICAL INFORMATION
POWER - DETAILS

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Ren. 6-30-27

Architect

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Revision

	Designed By: RH	Copyright 2026 Darden Architects
Scale:	Drawn By: HDE	X/E303
Project Number: 2533	Checked By: RH	
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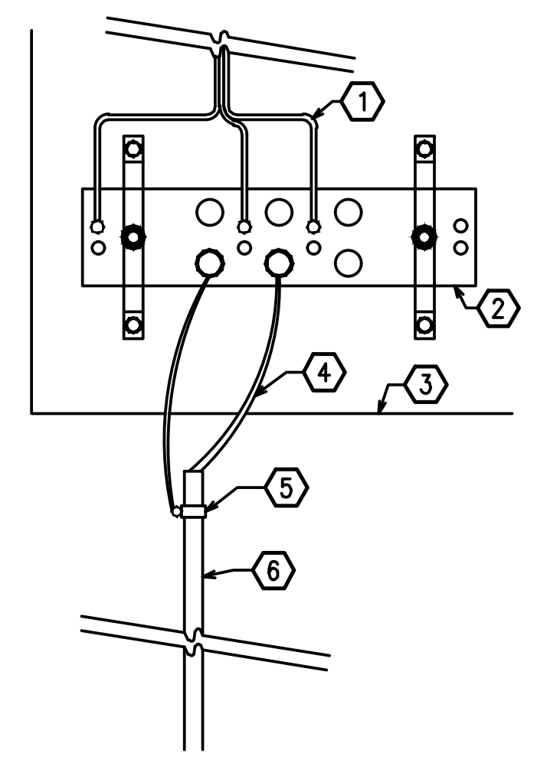
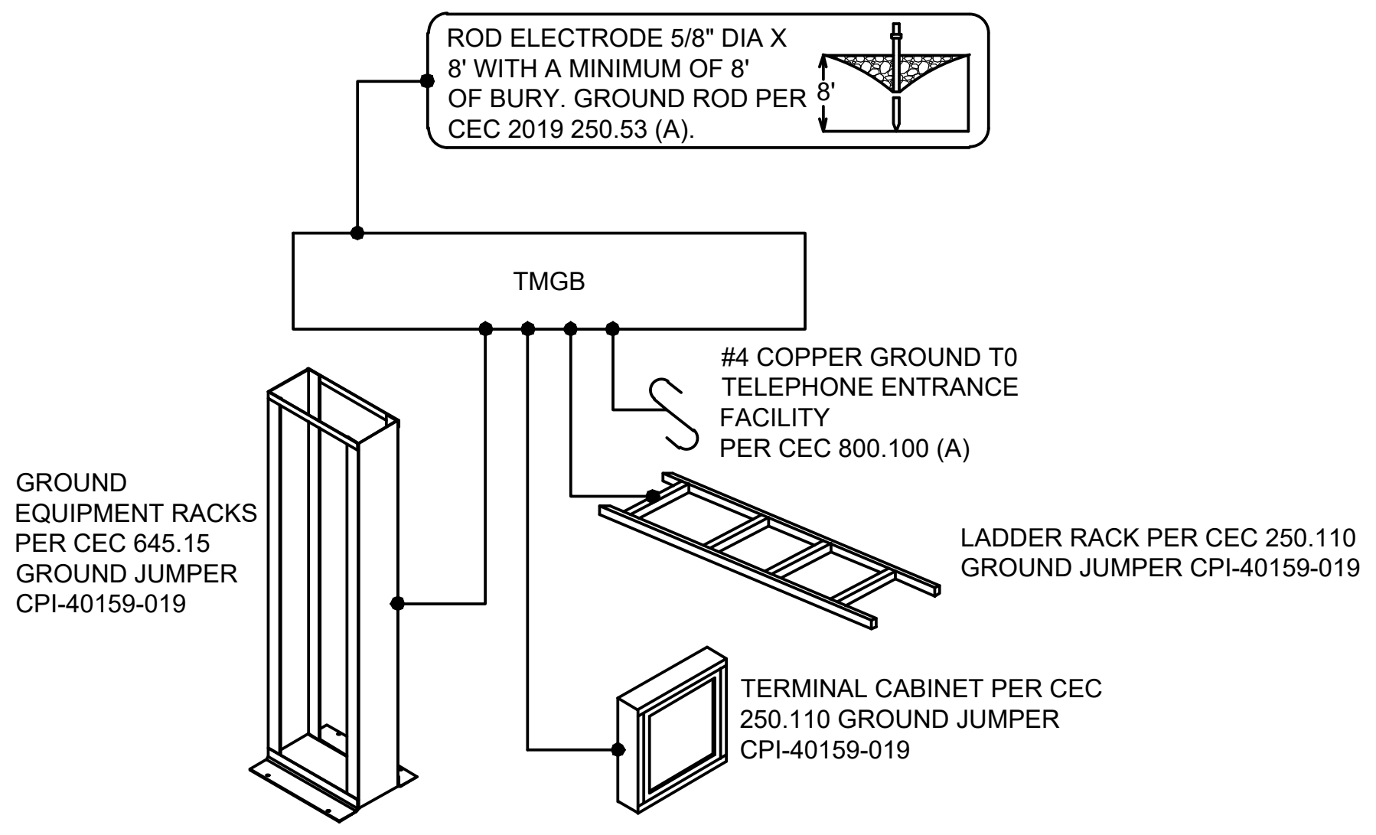


KEYNOTES ⬡

1. GROUNDING WIRE TO CONNECTED DEVICES PER CEC 654.15.
2. MDF: TMGB CPI PART NUMBER 40153-012; 4"W x 12"L x 1/4" THICK. IDF: TGB CPI PART NUMBER 13622-012; 2"W x 12"L x 1/4" THICK.
3. LOW VOLTAGE SYSTEMS BACKBOARD.
4. #2 BARE GROUNDING WIRE.
5. GROUND CLAMP. #12CU BOND TO BUS.
6. 3/4" CONDUIT TO MAIN BUILDING GROUND BUS BAR/ROD/PANEL.

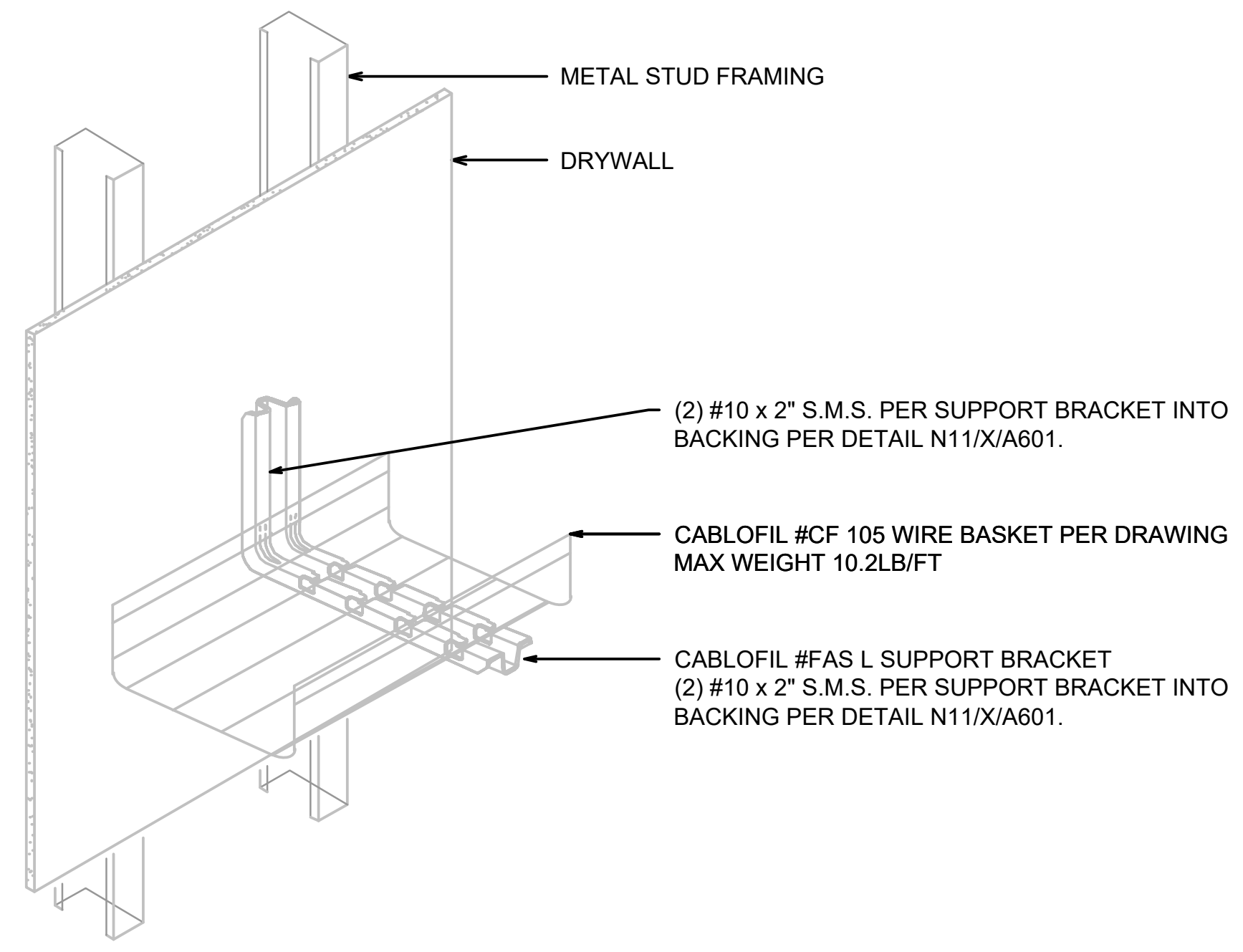
L1 TMGB Installation Detail

No Scale


ROD ELECTRODE 5/8" DIA X 8' WITH A MINIMUM OF 8' OF BURY. GROUND ROD PER CEC 2019 250.53 (A).
8'
TMGB
#4 COPPER GROUND T0 TELEPHONE ENTRANCE FACILITY PER CEC 800.100 (A)
GROUND EQUIPMENT RACKS PER CEC 645.15 GROUND JUMPER CPI-40159-019
LADDER RACK PER CEC 250.110 GROUND JUMPER CPI-40159-019
TERMINAL CABINET PER CEC 250.110 GROUND JUMPER CPI-40159-019

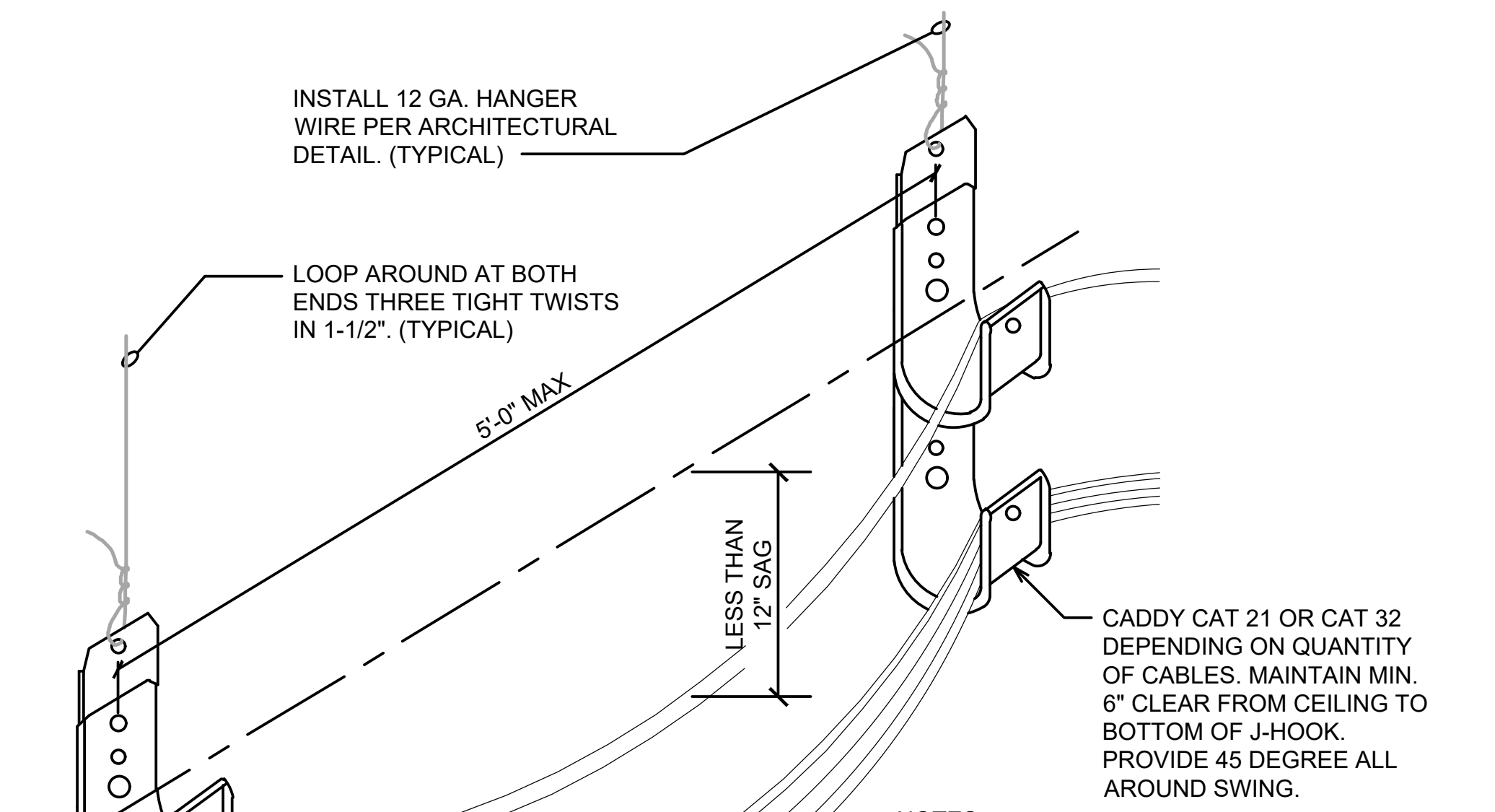
L5 Telecommunications Main Grounding Bus (TMGB) Detail

No Scale


METAL STUD FRAMING
DRYWALL
(2) #10 x 2" S.M.S. PER SUPPORT BRACKET INTO BACKING PER DETAIL N11/X/A601.
CABLOFIL #CF 105 WIRE BASKET PER DRAWING MAX WEIGHT 10.2LB/FT
CABLOFIL #FAS L SUPPORT BRACKET (2) #10 x 2" S.M.S. PER SUPPORT BRACKET INTO BACKING PER DETAIL N11/X/A601.

L9 Wire Mesh Basket Wall Support

No Scale


INSTALL 12 GA. HANGER WIRE PER ARCHITECTURAL DETAIL. (TYPICAL)
LOOP AROUND AT BOTH ENDS THREE TIGHT TWISTS IN 1-1/2". (TYPICAL)
5'-0" MAX
LESS THAN 12" SAG
CADDY CAT 21 OR CAT 32 DEPENDING ON QUANTITY OF CABLES. MAINTAIN MIN. 6" CLEAR FROM CEILING TO BOTTOM OF J-HOOK. PROVIDE 45 DEGREE ALL AROUND SWING.

NOTES:

1. FREE AIR CABLING APPLIES TO ACCESSIBLE ATTIC SPACES ONLY. CABLING SHALL NOT BE INSTALLED EXPOSED.
2. ALL HARDWARE & SUSPENSION WIRES SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.
3. IN EXPOSED AREAS, CABLING SHALL BE INSTALLED IN CONDUIT.
4. CABLE BUNDLE SHALL BE LESS THAN 5LBS PER LINEAL FOOT.

L13 J-Hook Cable Support Detail (Concealed Attic Spaces Only)

No Scale

G1 3'X5' Vault Detail

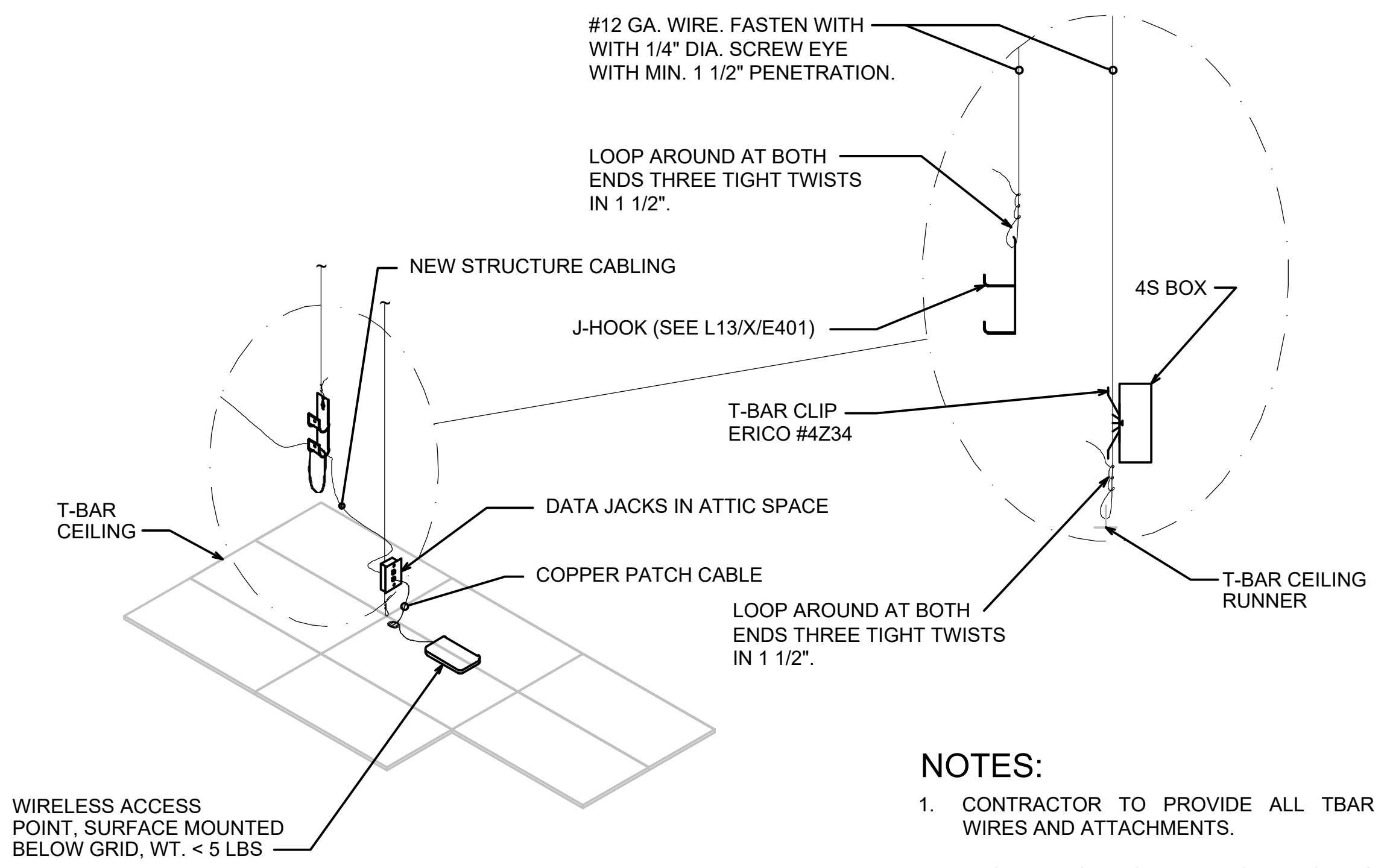
No Scale

G5 Not Used

No Scale

G9 Not Used

No Scale


#12 GA. WIRE. FASTEN WITH WITH 1/4" DIA. SCREW EYE WITH MIN. 1 1/2" PENETRATION.
LOOP AROUND AT BOTH ENDS THREE TIGHT TWISTS IN 1 1/2".
NEW STRUCTURE CABLING
J-HOOK (SEE L13/X/E401)
4S BOX
T-BAR CLIP ERICO #4Z34
T-BAR CEILING
DATA JACKS IN ATTIC SPACE
COPPER PATCH CABLE
LOOP AROUND AT BOTH ENDS THREE TIGHT TWISTS IN 1 1/2".
T-BAR CEILING RUNNER
WIRELESS ACCESS POINT, SURFACE MOUNTED BELOW GRID, WT. < 5 LBS

NOTES:

1. CONTRACTOR TO PROVIDE ALL TBAR WIRES AND ATTACHMENTS.
2. PROVIDE STRUCTURED CABLING AS SPECIFIED.
3. REPLACE ANY BROKEN TILES. ALERT OWNER TO ANY DAMAGE PRIOR TO INSTALLATION.

F13 Wireless Access Point At T-Bar Ceiling Detail

No Scale

ACCESS CONTROL AND INTRUSION:

1. THE CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL ACCESS/ INTRUSION SYSTEM.
2. ALL CABLING MUST BE INSTALLED BY AN AMAG CERTIFIED COMPANY.
3. ALL CABLE MUST BE INSTALLED TO AMAG SPECIFICATIONS.
4. INTRUSION KEYPAD LOCATIONS TO BE FED BY A SINGLE SHIELDED 6-CONDUCTOR
5. ALL DOOR ACCESS LOCATION TO BE FED BY A COMPOSITE (18/4 STRANDED + 22/6 STRANDED SHIELDED + 22/2 STRANDED + 22/4 STRANDED)
6. ALL MOTION DETECTORS MUST BE FED BY 18/4 STRANDED
7. ALL RS-485 & 20MA CONNECTIONS MUST BE FED BY A PURPLE SHIELDED 4 CONDUCTOR. (SCCCD SPEC REQUEST)
8. REFER TO SPECIFICATION SECTION 28 33 00.

ASSISTIVE LISTENING SYSTEMS:

1. THE CONTRACTOR SHALL PROVIDE (2) WILLIAMS SOUND "FM ADA KIT 37" ASSISTIVE LISTENING SYSTEMS TO THE OWNER, CONSISTING OF:
    - A. (1) PPA T46 TRANSMITTER
    - B. (4) PPA R37 RECEIVERS
    - C. (4) HED 027 HEADPHONES
    - D. (1) MIC 090 LAPEL MIC
    - E. (1) MIC 049 DESKTOP CONFERENCE MIC
    - F. (1) CCS 029 CARRY CASE
    - G. (2) NKL 001 NECKLOOPS (HEARING AID COMPATIBLE)
    - H. (5) BAT 001-2 AA ALKALINE BATTERIES

A1 Floor Mount 2 Post Rack Mounting Detail

No Scale

A7 Typical Intra-Room Data Station Port Labeling

No Scale

DSA File No.:
24-35

DSA Application No.:
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Agency Approval

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ELECTRICAL

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Ren. 6-30-27

Architect

No.	Revision/Submission	Date

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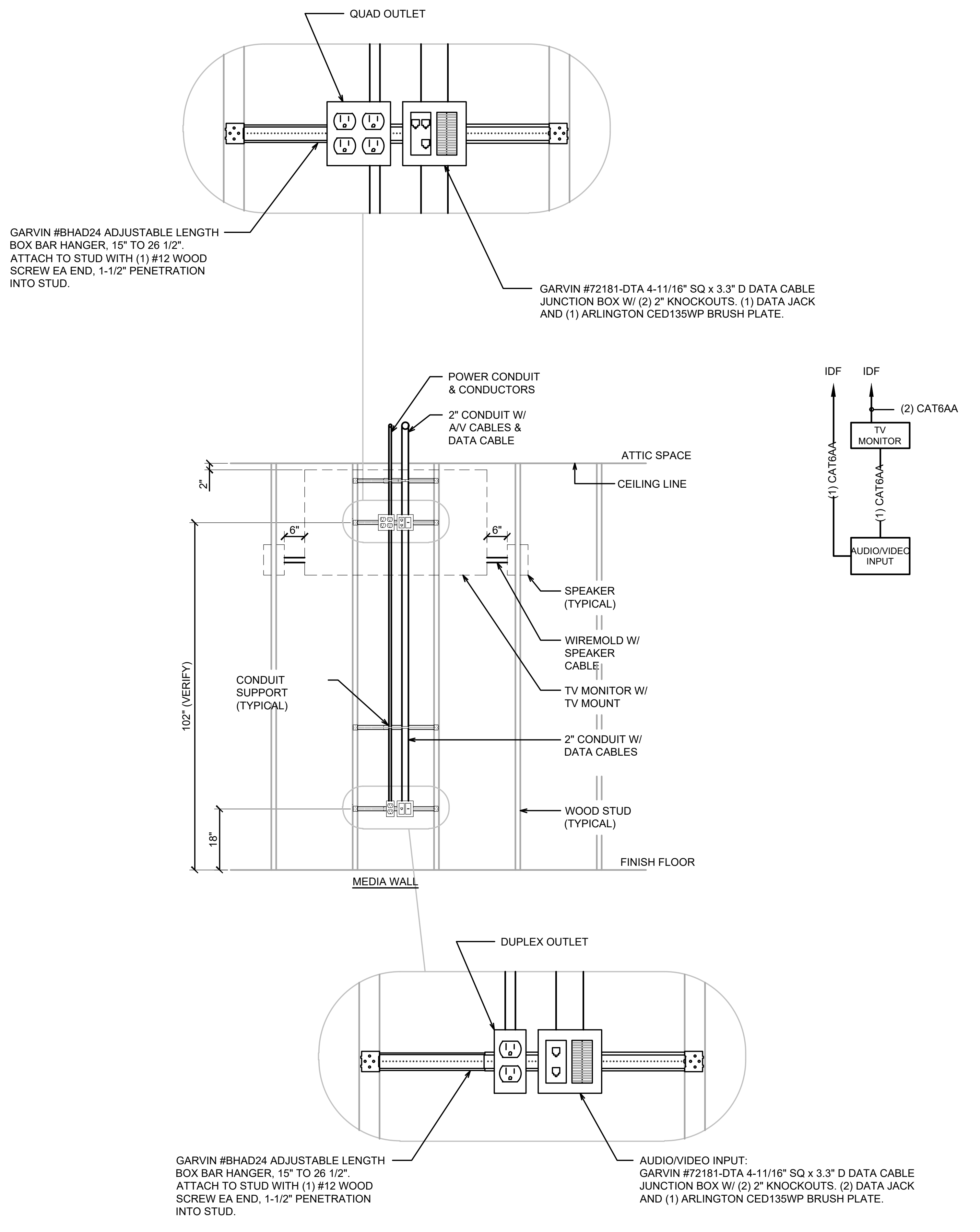
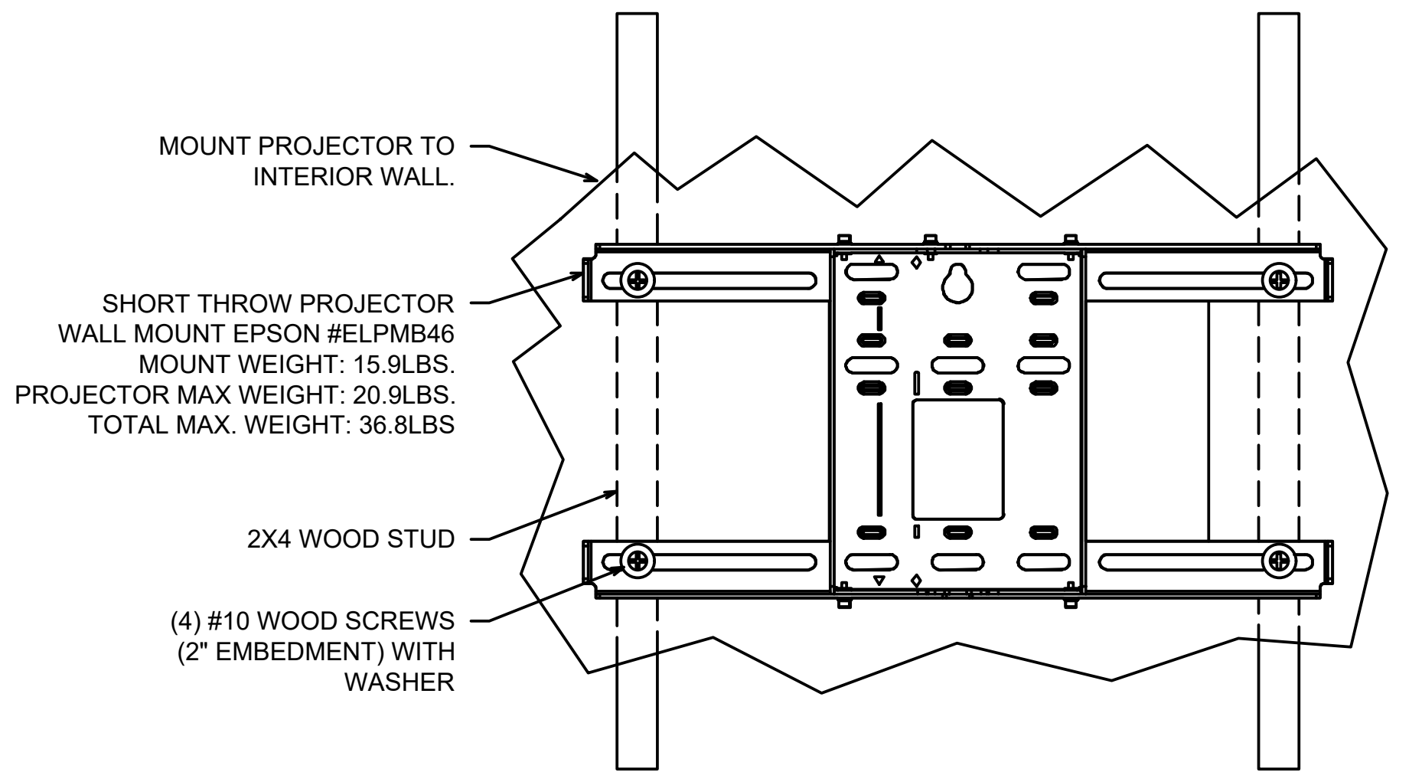
DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval


QUAD OUTLET
GARVIN #BHAD24 ADJUSTABLE LENGTH BOX BAR HANGER, 15" TO 26 1/2". ATTACH TO STUD WITH (1) #12 WOOD SCREW EA END, 1-1/2" PENETRATION INTO STUD.
GARVIN #72181-DTA 4-11/16" SQ x 3.3" D DATA CABLE JUNCTION BOX W/ (2) 2" KNOCKOUTS. (1) DATA JACK AND (1) ARLINGTON CED135WP BRUSH PLATE.
POWER CONDUIT & CONDUCTORS
2" CONDUIT W/ A/V CABLES & DATA CABLE
ATTIC SPACE
CEILING LINE
2"
6"
6"
SPEAKER (TYPICAL)
WIREMOLD W/ SPEAKER CABLE
TV MONITOR W/ TV MOUNT
CONDUIT SUPPORT (TYPICAL)
102" (VERIFY)
2" CONDUIT W/ DATA CABLES
WOOD STUD (TYPICAL)
18"
FINISH FLOOR
MEDIA WALL
IDF
IDF
(2) CAT6AA
TV MONITOR
(1) CAT6AA
(1) CAT6AA
AUDIO/VIDEO INPUT
DUPLEX OUTLET
GARVIN #BHAD24 ADJUSTABLE LENGTH BOX BAR HANGER, 15" TO 26 1/2". ATTACH TO STUD WITH (1) #12 WOOD SCREW EA END, 1-1/2" PENETRATION INTO STUD.
AUDIO/VIDEO INPUT: GARVIN #72181-DTA 4-11/16" SQ x 3.3" D DATA CABLE JUNCTION BOX W/ (2) 2" KNOCKOUTS. (2) DATA JACK AND (1) ARLINGTON CED135WP BRUSH PLATE.

A1
Typical TV Media Wall Elevation
No Scale


MOUNT PROJECTOR TO INTERIOR WALL.
SHORT THROW PROJECTOR WALL MOUNT EPSON #ELPMB46 MOUNT WEIGHT: 15.9LBS. PROJECTOR MAX WEIGHT: 20.9LBS. TOTAL MAX. WEIGHT: 36.8LBS
2X4 WOOD STUD
(4) #10 WOOD SCREWS (2" EMBEDMENT) WITH WASHER

A9
Projector Mounting Detail
No Scale

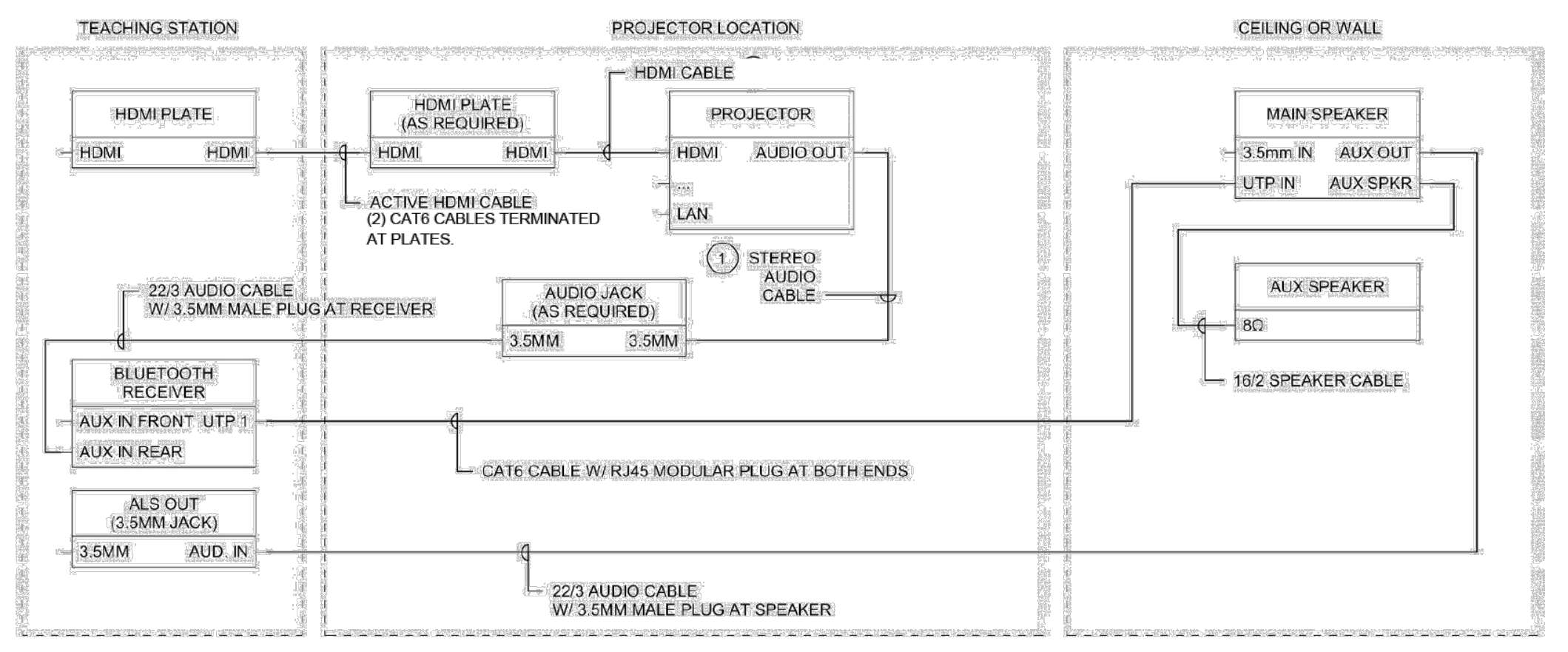
Merced City School District
Classroom AV Standards

Standard Equipment

1) Projectors		
a) Ultrashort Throw (UST)		
i) UST Projector	Epson 685W	OFCI
ii) UST Wall Mount	Epson ELPMB46	OFCI
b) Long Throw		
i) Long Throw Projector	Epson L200W	OFCI
ii) Universal Project Mount	Chief PRMAUW	OFCI
iii) Extension Column	Chief *(Length as required)*	OFCI
iv) Suspended Ceiling Kit	Chief CMS440	OFCI
2) Self-Amplified Speakers		
a) Wall Mount Speakers	OWI AMPLV602	OFCI
b) Ceiling Mount Speakers	OWI 2X2VG-HDTR	OFCI
c) Bluetooth Volume Control	OWI AMP-BTVC	OFCI
3) Wall Plate		
a) 1-Gang HDMI Plate	COVID D1114P-W	**CFCI**
If cable is within continuous conduit, provide length to allow cable to be directly plugged into projector.		
b) Assitive Listening Output	Panduit NK35MSSIW	**CFCI**
4) Cables		
a) Active HDMI Cable	COVID P-HD28.RM *(Length as required)*	**CFCI**
b) 6' HDMI at Projector (If needed)	Monoprice 3992	OFCI
c) 25' HDMI at Teach Station	Monoprice 5581	OFCI
d) Speaker Cable (Power, Audio)		
i) 2#18 AWG	West Penn 252245B	**CFCI**
e) Audio Cable (ALS)	West Penn 25291B	**CFCI**
f) 3.5mm M-M Audio Cable, 35'	COVID CSP1222-35M *(Length as required)*	**CFCI**

Merced City School District
Classroom AV Standards

Typical AV Wiring Diagram

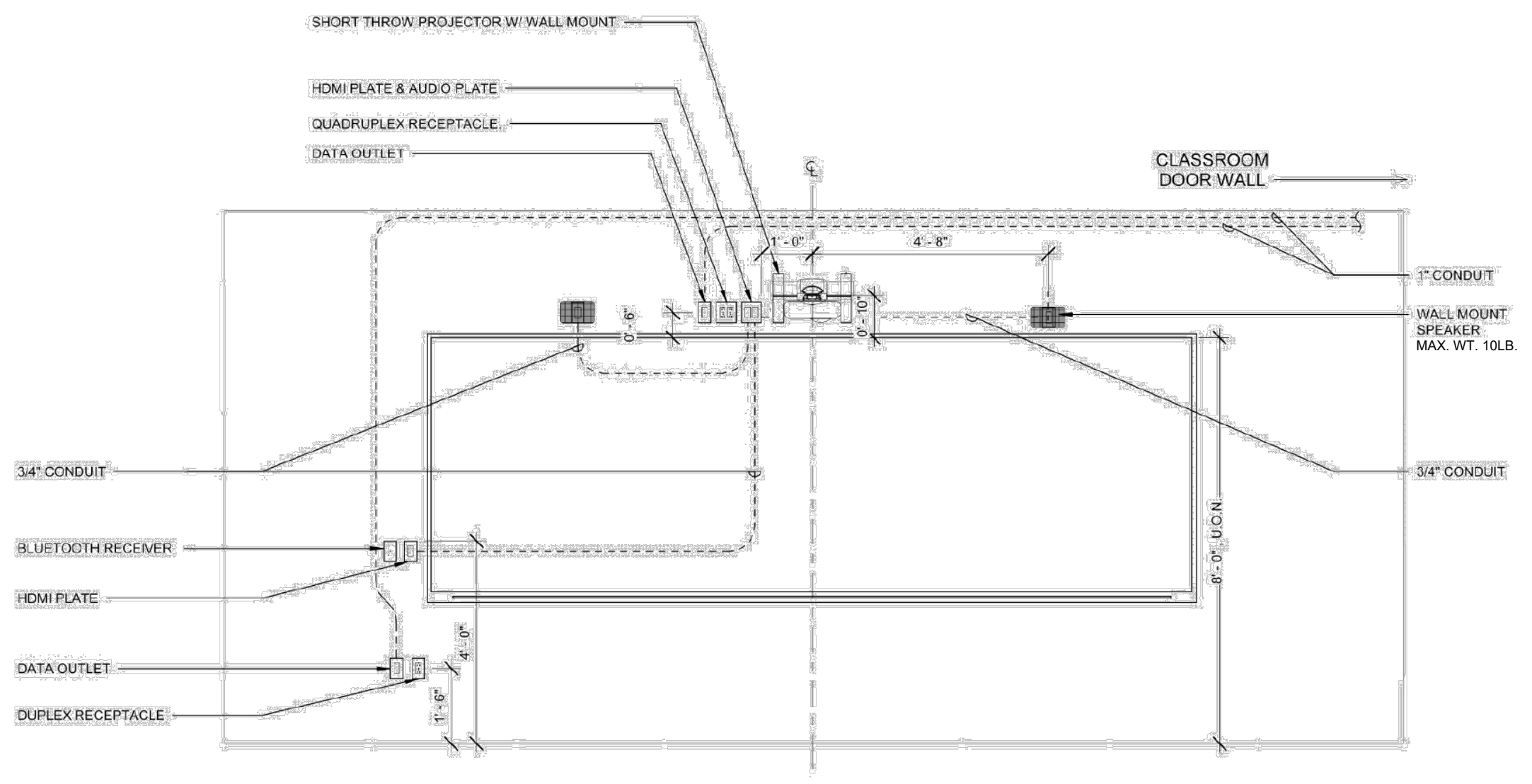


KEYNOTES

① CABLE FURNISHED BY OWNER, INSTALLED BY CONTRACTOR.

Merced City School District
Classroom AV Standards

Typical Wall Elevation – Wall Mount Projector & Speakers – Conduit



A13
Classroom AV Standards & Details
No Scale

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R.J. HARDIN NO. 9125

Consultant

Community Day School Modernization
Merced City Unified School District
Merced, CA, 95340

Project

TYPICAL INFORMATION
AV - DETAILS

Drawing

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GRANT E. DODSON No. C-20,307 Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

	Designed By: RH	
Scale:	Drawn By: HDE	X/E402
Project Number: 2533	Checked By: RH	
Date: 2/9/26	Reviewed By: RH	

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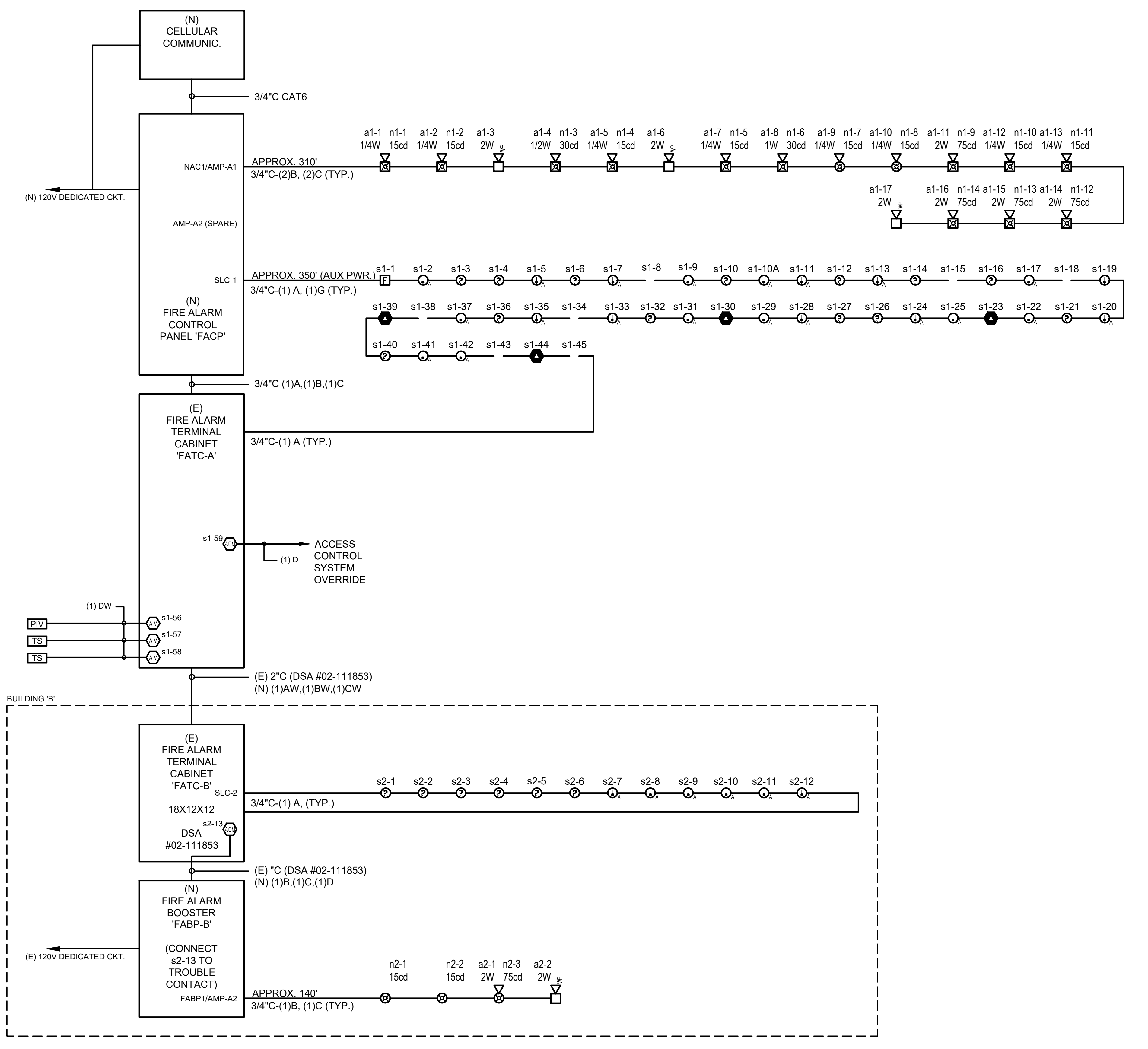


FIRE ALARM RISER DIAGRAM

FIRE ALARM GENERAL NOTES

1. ALL WORK SHALL CONFORM TO 2022 STANDARD NFPA 72, AS ADOPTED AND AMENDED IN CBC CHAPTER 35.
2. INSTALLATION OF THE FIRE ALARM SYSTEM (FAS) SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATIONS, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS 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 A DSA PROJECT INSPECTOR. (LOCAL FIRE AUTHORITY MAY WITNESS TEST)
4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR THE INSTALLATION.
5. 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.
6. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
7. 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.
8. WALL MOUNTED VISUAL NOTIFICATION DEVICES SHALL HAVE THEIR ENTIRE LENS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
9. 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.
10. AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (dBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY SPACE WITHIN A BUILDING THAT MAY BE OCCUPIED.
11. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL 3-PULSE PATTERN FOR FIRE ALARM PER NFPA 72 18.4.2.1 AND TEMPORAL 4-PULSE PATTERN FOR CO ALARM PER NFPA 720 5.8.6.5.1.
12. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
13. VISUAL DEVICES SHALL NOT EXCEED 2 FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN 1 FLASH PER SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISUAL DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
14. UNDERGROUND AND EXTERIOR CONDUITS SHALL HAVE WATERTIGHT FITTINGS AND WIRE APPROVED FOR WET LOCATIONS.
15. 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.
16. PER CEC STANDARDS, ALL WIRING SHALL BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE WIRE. ANY CONNECTION SHALL BE BY LUG CONNECTION AT A DEVICE OR AT A FATC TERMINAL BLOCK ONLY. ALL BOXES TO BE SIZED PER CEC.
17. SMOKE DETECTORS SHALL NOT BE CLOSER THAN 12" FROM FIRE SPRINKLERS NOR 36" FROM SUPPLY AIR DIFFUSERS. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION, NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
18. 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. OWNER STANDARDS MAY BE MORE STRINGENT.
19. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS' SPECIFICATIONS. ANY SINGLE DEVICE SHALL NOT EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
20. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT AND ALL EMERGENCY SYSTEM CIRCUITS SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICES TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM OR EMERGENCY CIRCUIT CONTROL". CIRCUIT ID TO BE LABELED AT THE FIRE PANEL/EXTENDERS.
21. THE INSTALLING CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION IN COMPLIANCE WITH NFPA 72, SECTION 7.5.6.
22. CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48".
23. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC 901.6.2.
24. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTIONS WITH FINAL TEST. FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISING STATIONS SHALL BE LISTED AS EITHER UUFX (CENTRAL STATION) OR UUJS (REMOTE AND PROPRIETARY) BY UNDERWRITERS LABORATORY (UL) OR SHALL COMPLY WITH THE REQUIREMENTS OF STANDARD FM 3011. A COPY OF ALL DEVICES REPORTED TO THE CENTRAL STATION SHALL BE PROVIDED TO THE OWNER'S ELECTRONICS DEPARTMENT.
25. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
26. ALL WIRING IS SHOWN DIAGRAMMATICALLY. SUBJECT TO DSA APPROVAL, CONTRACTOR MAY VARY SEQUENCE OF CIRCUITRY; HOWEVER, ALL CIRCUITS SHALL BE CONTINUOUS AND SUPERVISED.
27. ALL CONNECTIONS SHALL BE PROPERLY LABELED BY CONDUCTOR AND SHALL HAVE STA-KON LUG CONNECTORS. PANDUIT TAG (TIE WRAP) SEPARATELY.
28. FIRE ALARM TERMINAL CABINETS SHALL HAVE SUFFICIENT SPACE, TERMINAL BOARDS AND SCREW TERMINAL CONNECTORS TO ALLOW CONNECTION OF ALL CONDUCTORS SHOWN. PROVIDE BARRIER TO SEPARATE FIRE ALARM SYSTEM WHEN TERMINAL CABINET IS SHARED WITH NON-FIRE ALARM SYSTEMS. CONTRACTOR SHALL BE REQUIRED TO SUBMIT WITH HIS OTHER SHOP DRAWINGS DETAILED DRAWINGS OF HIS PROPOSED CONNECTIONS AT EACH FIRE ALARM TERMINAL CABINET PRIOR TO COMMENCING ANY WORK.
29. ALL NAC CIRCUIT CONDUCTORS SHALL BE #12 AWG, STRANDED (19 STRANDS OR LESS) COPPER, UNLESS OTHERWISE NOTED.
30. SET END-OF-LINE RESISTORS IN DISTRIBUTION TERMINAL CABINETS.
31. BATTERIES SHALL BE STAMPED WITH DATE OF MANUFACTURE.
32. INSTALLATION OF FAS EQUIPMENT SHALL BE BY AN AUTHORIZED ENGINEERED SYSTEM DISTRIBUTOR FOR THE EQUIPMENT SPECIFIED BY THE MANUFACTURER FOR SALES, SERVICE, INSTALLATION AND MAINTENANCE. PROVIDE CERTIFICATIONS WITH EQUIPMENT SUBMITTALS. SUBMITTALS BY FIRMS NOT FULFILLING THIS REQUIREMENT WILL BE AUTOMATICALLY REJECTED.
33. THE FAS INSTALLER SHALL BE NICET LEVEL 2 CERTIFIED.
34. THE FAS INSTALLER SHALL PROVIDE ALL FACTORY WARRANTIES TO THE OWNER AT THE CLOSE UP OF THE PROJECT.
35. THE FAS INSTALLER SHALL PROVIDE WRITTEN CERTIFICATION USING NFPA 72 INSPECTION AND TESTING FORMS AND SHALL CERTIFY THAT THE INSTALLATION, TESTING, AND OPERATION CONFORM IN ALL RESPECTS TO THE REQUIREMENTS AS SET FORTH IN TITLE 19 OF THE CALIFORNIA CODE OF REGULATIONS AND PART 3, ARTICLE 760 OF TITLE 24 OF THE C.C.R. AND C.B.C. SECTION 907. THE CONTRACTOR SHALL SUBMIT THE COMPLETED FAS CERTIFICATION AND DESCRIPTION FORM TO DIVISION OF STATE ARCHITECT.
36. WHEN FIRE ALARM WORK WILL DISABLE PORTIONS OF THE EXISTING FAS, PROVIDE ALL REQUIRED OVERTIME AND FIRE WATCH IN SCOPE OF WORK.
37. WHERE FIRE ALARM DEVICES ARE BEING INSTALLED IN OTHERWISE INACCESSIBLE AREAS, PROVIDE AN ALLOWANCE FOR THE INSTALLATION OF ACCESS PANELS AND ALL WORK ASSOCIATED WITH THE INSTALLATION. THE CONTRACTOR SHALL CUT ALL THE OPENINGS. THE SIZE OF THE ACCESS PANEL SHALL BE DETERMINED BY THE MAN ACCESS REQUIREMENTS. PROVIDE PAINT GRADE ACCESS DOORS AND PAINT TO MATCH THE COLOR & SHEEN OF THE EXISTING CEILING.
38. THERE SHALL BE NO T-TAPPING OF ANY CIRCUITS, WHETHER THEY ARE NOTIFICATION APPLIANCE CIRCUITS OR INITIATION CIRCUITS.
39. FIRE ALARM SYSTEM INSPECTION, TESTING, AND MAINTENANCE SHALL COMPLY WITH NFPA 72 CHAPTER 14.
40. FIRE ALARM RECORD DOCUMENTS CABINET NFPA 72, 7.7.2
    - EVERY NEW FILE ALARM SYSTEM SHALL PROVIDE A DOCUMENTATION CABINET, INSTALLED AT THE SYSTEM CONTROL PANEL OR OTHER APPROVED LOCATION.
    - THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED, "SYSTEM RECORD DOCUMENTS".
    - ALL RECORD AND TESTING DOCUMENTATION SHALL BE STORED IN THE CABINET.
    - CONTENTS SHALL BE ACCESSIBLE BY AUTHORIZED PERSONNEL ONLY.
    - WHERE CABINET IS INSTALLED IN A LOCATION OTHER THAN THE SYSTEM CONTROL UNIT, ITS LOCATION SHALL BE IDENTIFIED AT THE SYSTEM CONTROL UNIT.

    SYSTEM DOCUMENTS AS APPLICABLE:
    - RECORD DRAWINGS/AS-BUILTS
    - EQUIPMENT CUT SHEETS & CA SFM LISTINGS
    - ALTERNATIVE MEANS AND METHODS
    - PERFORMANCE BASED DESIGN DOCUMENTATION (NFPA 72, 7.3.7)
    - SYSTEM RECORD OF COMPLETION & ANY SUPPLEMENTAL INSPECTION AND TESTING DOCUMENTATION (NFPA 72, 7.8.2)
    - EMERGENCY RESPONSE PLAN (NFPA 72, 7.3.8)
    - EVALUATION DOCUMENTATION (NFPA 72, 7.3.9)
    - RISK ANALYSIS DOCUMENTATION (NFPA 72, 7.3.6)
    - SOFTWARE & FIRMWARE CONTROL DOCUMENTATION (NFPA 72, 23.2.2)

FIRE ALARM SYMBOLS

SYMBOL	DESCRIPTION	MODEL NO.	CSFM
FACP	FIRE ALARM CONTROL PANEL	GAMEWELL/FCI E3 SERIES, FOCAL POINT INTEGRATED W/ LCD-E3, ASM-16	7165-1703:0125
COM	(E) FIRE ALARM COMMUNICATOR	STARLINK #SLE-LTEV-FIRE	7300-0992:0144
EXP	FIRE ALARM BOOSTER PANEL	GAMEWELL/FCI #GFPS-6	7300-1703:0167
⊙	SMOKE DETECTOR, PHOTOELECTRIC DETECTOR BASE	GAMEWELL/FCI # ASD-PL3 GAMEWELL/FCI # B501	7272-1703:0501 7300-1653:0109
⦶	CEILING HEAT DETECTOR, 135°F DETECTOR BASE	GAMEWELL/FCI # ATD-L3 GAMEWELL/FCI # B501	7270-1703:0502 7300-1653:0109
⦶A	ATTIC HEAT DETECTOR, 190°F DETECTOR BASE	GAMEWELL/FCI # ATD-L3H GAMEWELL/FCI # B501	7270-1703:0502 7300-1653:0109
⬢	MULTI-CRITERIA, PHOTOELECTRIC & CO DETECTOR SOUNDER BASE (TEMPORAL 4)	GAMEWELL/FCI # MCS-COP3 SYSTEM SENSOR # B200S	7275-1703:0510 7300-1653:0213
F	MANUAL PULL STATION	GAMEWELL/FCI #MS-7ASF	7150-1703:0170
AIM	MONITOR MODULE	GAMEWELL/FCI # AMM-2F	7300-1703:0102
AOM	RELAY MODULE	GAMEWELL/FCI # AOM-2SF	7300-1703:0102
⊠◁ XX XW	SPEAKER/VISIBLE NAC DEVICE, WALL MT'D (WATTS & cd INDICATED ON PLANS)	EATON/WHEELOCK # ELSPSTR	7320-0785:0505
⊗◁ XX XW	SPEAKER/VISIBLE NAC DEVICE, CEIL. MT'D (WATTS & cd INDICATED ON PLANS) SEE DETAIL A1/X/E602	EATON/WHEELOCK # ELSPSTRC	7320-0785:0505
□◁ WP XW	EXTERIOR SPEAKER, W.P., WALL MT'D (WATTS INDICATED ON PLANS)	EATON/WHEELOCK # ET-1010-R	7320-0785:0105
PIV	SPRINKLER POST INDICATOR VALVE	SPECIFIED BY FIRE PROTECTION ENG.	
TS	SPRINKLER RISER TAMPER SWITCH	SPECIFIED BY FIRE PROTECTION ENG.	
FS	SPRINKLER RISER FLOW SWITCH	SPECIFIED BY FIRE PROTECTION ENG.	
B	SPRINKLER RISER BELL	SPECIFIED BY FIRE PROTECTION ENG.	

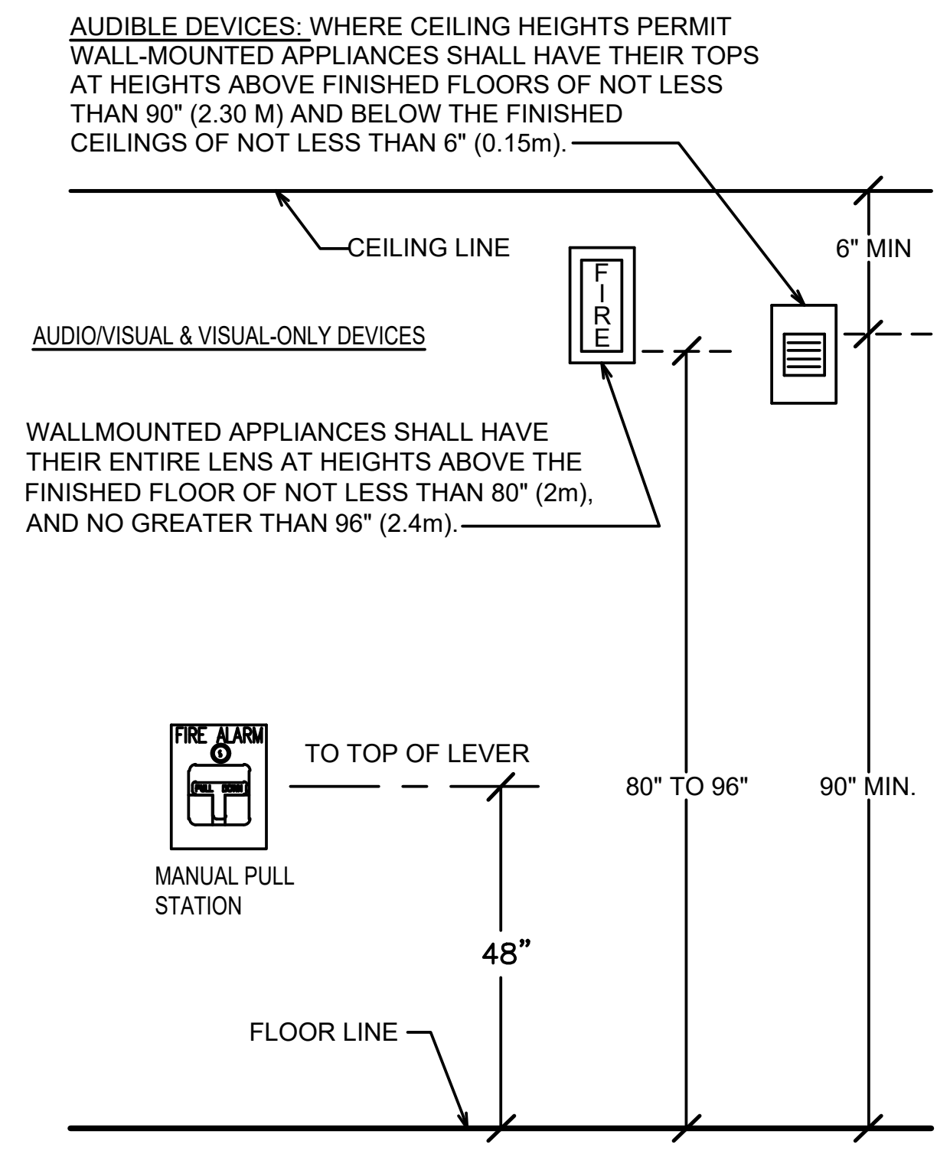
FIRE ALARM CABLE SCHEDULE

SYMBOL	NAME	DESCRIPTION
A	SIGNALING LINE CIRCUIT (SLC) CABLE WEST PENN #D990	16/2 TWISTED PAIR, STRANDED, LOW CAPACITANCE FA POWER LIMITED, RISER CABLE (FPLR)
AW	SIGNALING LINE CIRCUIT (SLC) CABLE, OSP WEST PENN #AQC225	16/2 TWISTED PAIR, STRANDED, AQUASEAL FA POWER LIMITED CABLE (FPL)
B	NOTIFICATION APPLIANCE CKT (NAC) CABLE WEST PENN #998S	12/2 TWISTED PAIR, STRANDED FA POWER LIMITED, RISER CABLE (FPLR)
BW	NOTIFICATION APPLIANCE CKT (NAC) CABLE, OSP WEST PENN #AQ227	12/2 TWISTED PAIR, STRANDED, AQUASEAL FA POWER LIMITED CABLE (FPL)
C	EM. VOICE/ALARM COMM. (EV/AC) CABLE WEST PENN #HF995	14/2 SHIELDED TWISTED PAIR, STRANDED FA POWER LIMITED CABLE (FPL)
CW	EM. VOICE/ALARM COMM. (EV/AC) CABLE, OSP WEST PENN #AQC295	14/2 SHIELDED TWISTED PAIR, STRANDED, AQUASEAL FA POWER LIMITED CABLE (FPL)
D	INITIATING DEVICE CKT (IDC) CABLE WEST PENN #994S	14/2 TWISTED PAIR, STRANDED FA POWER LIMITED, RISER CABLE (FPLR)
DW	INITIATING DEVICE CKT (IDC) CABLE, OSP WEST PENN #AQC226	14/2, TWISTED PAIR, STRANDED, AQUASEAL FA POWER LIMITED CABLE (FPL)
G	POWER CABLE WEST PENN #998S	12/2, TWISTED PAIR, STRANDED FA POWER LIMITED, RISER CABLE (FPLR)
GW	POWER CABLE WEST PENN #AQ227	12/2 TWISTED PAIR, STRANDED, AQUASEAL FA POWER LIMITED, RISER CABLE (FPL)
M	MIC CABLE	16/6, TWISTED SHIELDED PAIR, PLENUM RATED

FIRE ALARM SEQUENCE OF OPERATION MATRIX

INITIATION CONDITON ACTION	FIRE SPRINKLER TAMPER SWITCH, POST INDICATOR VALVE	CARBON-MONOXIDE (CO) DETECTOR END OF LIFE	CARBON-MONOXIDE (CO) DETECTOR ALARM	SMOKE, HEAT DETECTOR, FIRE SPRINKLER FLOW SWITCH	POWER LOSS, SHORT CIRCUIT, GROUND FAULT
ANNUNCIATE TROUBLE					●
ANNUNCIATE ALARM				●	
ANNUNCIATE CO ALARM			●		
ANNUNCIATE SUPERVISORY	●	●			
INITIATE NOTIFICATION APPLICANCES				●	
INITIATE EV/AC APPLICANCES				●	
TRANSMIT TO CENTRAL STATION	●		●	●	●
SHUTDOWN HVAC UNITS				●	
CLOSE HVAC DAMPERS				●	
RELEASE ACCESS CONTROL				●	

FIRE ALARM DEVICE ELEVATION


AUDIBLE DEVICES: WHERE CEILING HEIGHTS PERMIT WALL-MOUNTED APPLIANCES SHALL HAVE THEIR TOPS AT HEIGHTS ABOVE FINISHED FLOORS OF NOT LESS THAN 90" (2.30 M) AND BELOW THE FINISHED CEILINGS OF NOT LESS THAN 6" (0.15m).

AUDIO/VISUAL & VISUAL-ONLY DEVICES

WALLMOUNTED APPLIANCES SHALL HAVE THEIR ENTIRE LENS AT HEIGHTS ABOVE THE FINISHED FLOOR OF NOT LESS THAN 80" (2m), AND NO GREATER THAN 96" (2.4m).

DSA File No.:
24-35

DSA Application No.:
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Agency Approval

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REGISTERED PROFESSIONAL ENGINEER
R.J.HARDIN
NO. 9125
ELECTRICAL
STATE OF CALIFORNIA

Consultant

Community Day School Modernization
Merced City Unified School District
Merced, CA, 95340

Project

TYPICAL INFORMATION
FIRE ALARM - RISER DIAGRAM, NOTES, & SYMBOLS

Drawing

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LICENSED ARCHITECT
GRANT E. DODSON
No. C-20,307
Ren. 6-30-27
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: RH	
Scale:	Drawn By: HDE	X/E601
Project Number: 2533	Checked By: RH	
Date: 2/9/26	Reviewed By: RH	

A1
Fire Alarm Riser Diagram, Notes, & Symbols
No Scale

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DSA File No.:
24-35

DSA Application No.:
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Agency Approval

BATTERY CALCULATION

F.A. Control Panel 'FACP'

POWER REQUIREMENTS

	CURRENT [A]	
	SUPERVISORY	ALARM
(1) ILI-MB-E3 (SLCs at max. output)	0.0810	0.1500
DACT-E3 (Communicator)	0.0180	0.0180
LCD-E3 (Panel Display)	0.0240	0.2800
INI-VGC (Command Center Voice Gateway)	0.1500	0.1500
ASM-16	0.0050	0.0050
INCC-MIC	0.0010	0.0010
PM-9 (Power Supply)	0.0500	0.0500
AM-50-70 (Amp)	0.1470	6.9000
NAC Circuits	-	0.4760
24VDC Auxiliary (CO Sounder Base)	0.0022	0.1688
24VDC Auxiliary (CO Sounder Base)	0.0000	0.0000
TOTALS	0.4782	8.1988

BATTERY CAPACITY

SUPERVISORY POWER	= 24 Hr * 0.4782A	=	11.477 AHr
ALARM POWER	= 0.25 Hr * 8.1988A	=	2.050 AHr
	TOTAL POWER REQUIREMENT =		13.527 AHr
	SPECIFIED BATTERY CAPACITY (includes 20% safety factor) =		16.2318 AHr

BATTERY CALCULATION

NAC Expander 'FABP-B'

POWER REQUIREMENTS

	CURRENT [A]	
	SUPERVISORY	ALARM
Panel Overhead	0.075	0.175
NAC Circuits	-	0.104
TOTALS	0.075	0.279

BATTERY CAPACITY

SUPERVISORY POWER (24 HOURS)	= 24 Hr * 0.075A	=	1.800 AHr
ALARM POWER (15 MINUTES)	= 0.25 Hr * 0.279A	=	0.070 AHr
	TOTAL POWER REQUIREMENT =		1.870 AHr
	MINIMUM BATTERY CAPACITY (includes 25% safety factor) =		7 AHr

VOLTAGE DROP CALCULATION

NAC Circuit 'n1'

VD = Voltage Drop [V]
I = Current [A] (0.476A)
K = 11 (Copper Constant)
L = Distance to Load [ft.] (410')
CM = Circular Mils (#12 AWG = 6530)
V = Voltage [V] (24VDC)

$$VD = \frac{K * I * 2L}{CM} = \frac{11 * 0.476 * 2 * 410'}{6530} = 0.658\ V$$

$$VD\% = \frac{VD}{24} = 2.7\%$$

VOLTAGE DROP CALCULATION

NAC Circuit 'FABP-B'

VD = Voltage Drop [V]
I = Current [A] (0.104A)
K = 12.9 (Copper Constant)
L = Distance to Load [ft.] (140')
CM = Circular Mils (#12 AWG = 6530)
V = Voltage [V] (24VDC)

$$VD = \frac{K * I * 2L}{CM} = \frac{12.9 * 0.104 * 2 * 140'}{6530} = 0.058\ V$$

$$VD\% = \frac{VD}{24} = 0.2\%$$

VOLTAGE DROP CALCULATION

CO Sounder Base Circuit 'AUX1'

VD = Voltage Drop [V]
I = Current [A] (0.1688A)
K = 11 (Copper Constant)
L = Distance to Load [ft.] (350')
CM = Circular Mils (#12 AWG = 6530)
V = Voltage [V] (24VDC)

$$VD = \frac{K * I * 2L}{CM} = \frac{11 * 0.1688 * 2 * 350'}{6530} = 0.199\ V$$

$$VD\% = \frac{VD}{24} = 0.8\%$$

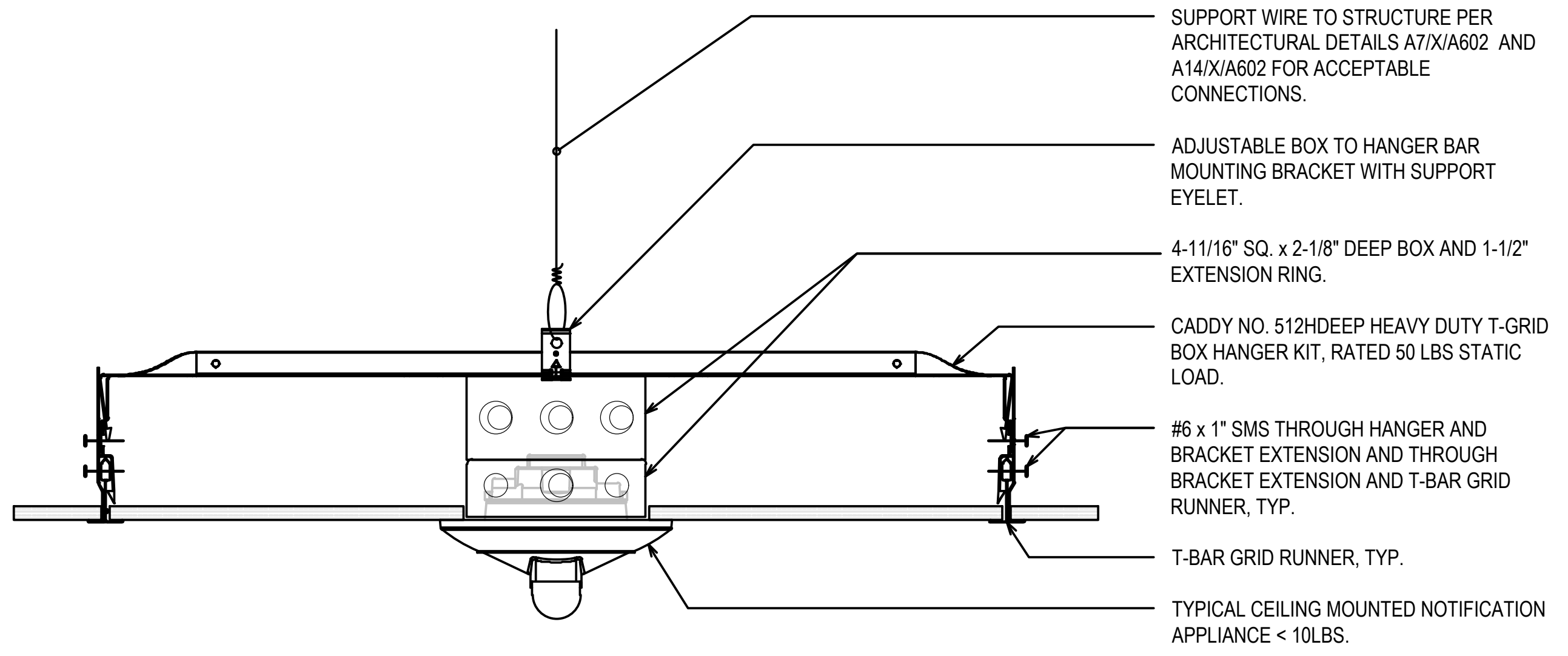
VOICE EVACUATION VOLTAGE DROP

Volt Drop Common Parameters

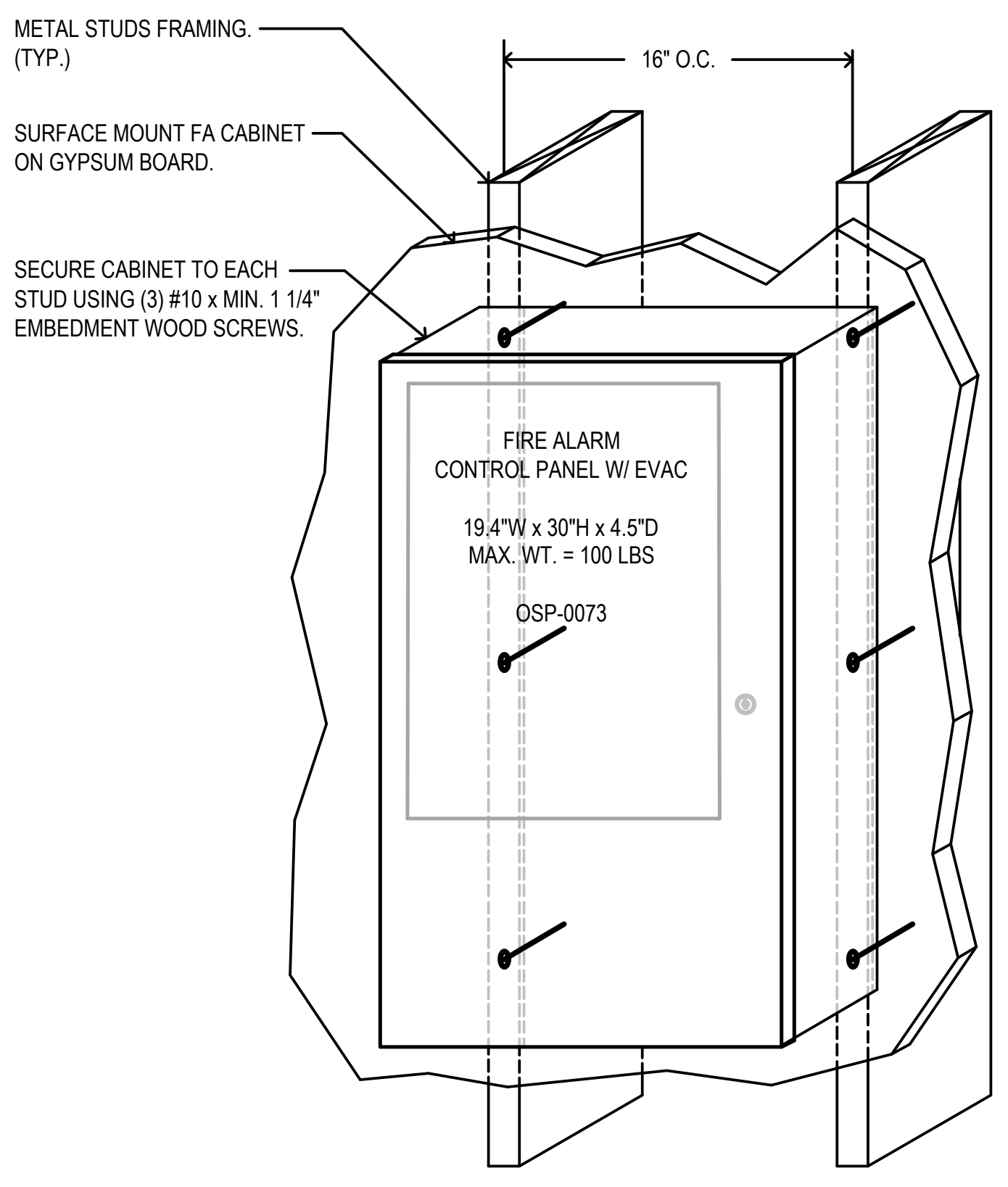
Volts 70.7 ▼ Volts
Wire Size 14 ▼ AWG
Wire Resistance 3.26 ohm/Kft

Type	**INDOOR**						**OUTDOOR**						**CIRCUIT LENGTH**		
	Wattage Tap						Wattage Tap								
Wattage Tap	1/8 W	1/4 W	1/2W	1W	2W	4W	1/4W	1/2W	1W	2W	4W	8W	Total Watts	Max Length	Actual Length
a1		8	1	1	4					3			17.5	5191	310
a2					1					1			4	22712	460

E1 Fire Alarm Calculations
No Scale

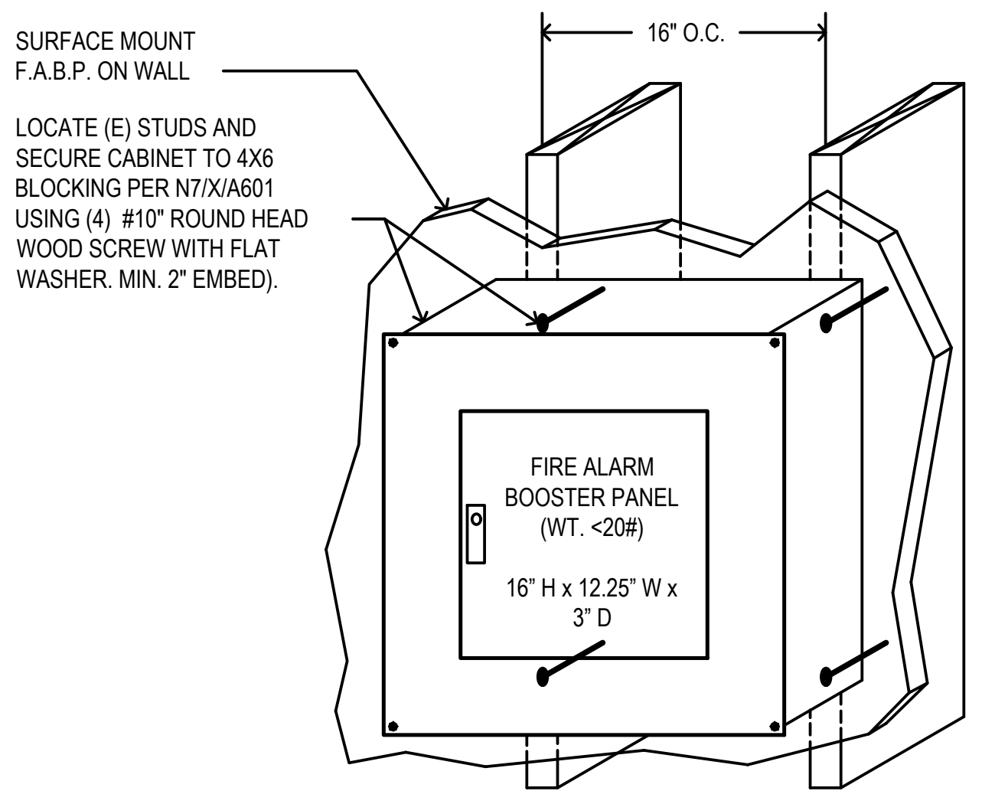

SUPPORT WIRE TO STRUCTURE PER ARCHITECTURAL DETAILS A7/X/A602 AND A14/X/A602 FOR ACCEPTABLE CONNECTIONS.
ADJUSTABLE BOX TO HANGER BAR MOUNTING BRACKET WITH SUPPORT EYELET.
4-11/16" SQ. x 2-1/8" DEEP BOX AND 1-1/2" EXTENSION RING.
CADDY NO. 512HDEEP HEAVY DUTY T-GRID BOX HANGER KIT, RATED 50 LBS STATIC LOAD.
#6 x 1" SMS THROUGH HANGER AND BRACKET EXTENSION AND THROUGH BRACKET EXTENSION AND T-BAR GRID RUNNER, TYP.
T-BAR GRID RUNNER, TYP.
TYPICAL CEILING MOUNTED NOTIFICATION APPLIANCE < 10LBS.

A1 NOTIFICATION APPLIANCE T-BAR CEILING MOUNTING DETAIL
No Scale


METAL STUDS FRAMING. (TYP.)
SURFACE MOUNT FA CABINET ON GYPSUM BOARD.
SECURE CABINET TO EACH STUD USING (3) #10 x MIN. 1 1/4" EMBEDMENT WOOD SCREWS.
16" O.C.
FIRE ALARM CONTROL PANEL W/ EVAC
19.4"W x 30"H x 4.5"D
MAX. WT. = 100 LBS
OSP-0073

ADA NOTE: IF THIS PANEL IS LOCATED WITHIN A CIRCULATION ROUTE, THE BOTTOM OF THE PANEL SHALL NOT BE LESS THAT 27" AFF.

A7 FACP Mounting Detail
No Scale


SURFACE MOUNT F.A.B.P. ON WALL
LOCATE (E) STUDS AND SECURE CABINET TO 4X6 BLOCKING PER N7/X/A601 USING (4) #10" ROUND HEAD WOOD SCREW WITH FLAT WASHER. MIN. 2" EMBED).
16" O.C.
FIRE ALARM BOOSTER PANEL (WT. <20#)
16" H x 12.25" W x 3" D

A10 Fire Alarm Booster Mounting Detail
No Scale

A13 Not Used
No Scale

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356 Pollasky Ave., Suite 200, Clovis, CA 93612
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REGISTERED PROFESSIONAL ENGINEER R.J.HARDIN NO. 9125 ELECTRICAL STATE OF CALIFORNIA

Consultant

Community Day School Modernization
Merced City Unified School District
Merced, CA, 95340
Project

TYPICAL INFORMATION
FIRE ALARM - CALCULATIONS & DETAILS
Drawing

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ARCHITECTURE
PLANNING
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LICENSED ARCHITECT GRANT E. DODSON No. C-20,307 Ren. 6-30-27 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: RH	
Scale:	Drawn By: HDE	X/E602
Project Number: 2533	Checked By: RH	
Date: 2/9/26	Reviewed By: RH	

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- Kickoff\Consult Export_09-10-25\2533_CDS_Mod_V24_Consult Export_09-10-25.rvt

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

STATE OF CALIFORNIA

Electrical Power Distribution

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2 (b)4Bvii	
Project Name: Community Day School	**Report Page:** (Page 1 of 5)
Project Address:	**Date Prepared:** 11/12/2025

A. GENERAL INFORMATION

01	Project Location (city)	Merced	02	Climate Zone	12
			03	Occupancy Types Within Project:	All Other OccupanciesClassroomOfficeSupport Areas

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/ Description	Scope of Work[1]	Rating[2] (kVA)	Utility Provided Metering System Exception to 130.5(a)/ 160.6(a)[3]	System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b)	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy
MSB	New electrical service equipment and meter	144	☒	☐	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/ 160.3, 130.1/ 160.5, and 130.3/ 160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	☐

[1] *FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.*

[2] *If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.*

[3] *Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.*

STATE OF CALIFORNIA

Electrical Power Distribution

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: Community Day School	**Report Page:** (Page 2 of 5)
	Date Prepared: 11/12/2025

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through J. 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.

01		02		03		04	05	06
Service Electrical Metering 130.5(a)/ 160.6(a) (See Table F)	AND	Separation for Monitoring 130.5(b)/ 160.6(b) (See Table G)	AND	Voltage Drop 130.5(c)/ 160.6(c) (See Table H)	AND	Controlled Receptacles 130.5(d)/ 160.6(d) (See Table I)	Electric Ready 160.9 (See Table J)	**Compliance Results**
Yes	AND	Yes	AND	Yes	AND			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 includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA

Electrical Power Distribution

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: Community Day School	**Report Page:** (Page 3 of 5)
	Date Prepared: 11/12/2025

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(b)/ 160.6(b). Any load types that are not included in the service do not need to be shown. For multifamily occupancies, submetered systems that provide power to dwelling units do not need to meet these separation requirements and therefore load types on those submetered systems also do not need to be shown.

01	02	03	04	05	
Load Type per Table 130.5-B[1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Field Inspector	
				Pass	Fail
MSB					
Lighting including exit, egress and exterior	All lighting in aggregate	NA: Add/Alt to feeders and branch circuits only	A/E101	☐	☐
HVAC systems and components	All HVAC in aggregate	NA: Add/Alt to feeders and branch circuits only	A/E211	☐	☐
Domestic and service water systems	All loads in aggregate	NA: Add/Alt to feeders and branch circuits only	A/E201	☐	☐
Plug Loads and appliances less than 25kVA	All plug loads in aggregate Groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf	NA: Add/Alt to feeders and branch circuits only	A/E201	☐	☐
Charging stations for electrical vehicle	All loads in aggregate	NA: Add/Alt to feeders and branch circuits only	SD/E101	☐	☐

** NOTES: If "Other*" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.*

[1] *FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.*

[2] *Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type.*
Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type.
Method 3: Branch circuits serve load types individually and provisions for adding future branch circuit monitoring.
Method 4: Complete metering system measures and reports loads by type.
See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

STATE OF CALIFORNIA

Electrical Power Distribution

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: Community Day School	**Report Page:** (Page 4 of 5)
	Date Prepared: 11/12/2025

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/ 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2Piii/ 180.2(b)4Bviic.

01	02				03	04	05	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method				Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector	
							Pass	Fail
MSB	☒	Voltage drop less than 5%	☐	Permitted by CA Elec Code (Exception to 130.5(c))*	Contractor Responsible	E-Sheets	☐	☐

** NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

[1] *FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".*

J. ELECTRIC READY BUILDINGS

This section does not apply to this project.

K. 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

Form/Title
NRCI-ELC-E - Must be submitted for all buildings

STATE OF CALIFORNIA

Electrical Power Distribution

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: Community Day School	**Report Page:** (Page 5 of 5)
Project Address:	**Date Prepared:** 11/12/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Richard J. Hardin, PE	Documentation Author Signature:
Company: Hardin-Davidson Engineering	Signature Date: 2025-11-12
Address: 356 Pollasky Ave, Ste 200	CEA/ HERS Certification Identification (if applicable): E-9125
City/State/Zip: Clovis CA 93612	Phone: 559-323-4995

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: Richard J. Hardin	Responsible Designer Signature:
Company: Hardin-Davidson Engineering	Date Signed: 2025-11-12
Address: 356 Pollasky Ave Ste 200	License: E-9125
City/State/Zip: Clovis CA	Phone:

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.	
Project Name: Community Day School	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 11/12/2025

A. GENERAL INFORMATION

01	Project Location (city)	Merced	04	Total Conditioned Floor Area (ft²)	4,769
02	Climate Zone	12	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

● Classroom ● Office ● Support Areas ● All Other Occupancies

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Area Category Method	4769	Area Category Method	0
☐ New Lighting System - Parking Garage				
Total Area of Work (ft²)	4769		0	

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Community Day School	**Report Page:** (Page 2 of 7)
	Date Prepared: 11/12/2025

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	**Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)**							**Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)**				**Compliance Results**
	01	02	03	04		05		06	07		08	09
									Adjustments			
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	=	**Total Allowed** (Watts)	≥	Total Designed (Watts)	PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	=	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)				(See Table F)	(See Table P)			
Conditioned		2,899.6	0		=	2,900	≥	2,268	0	=	2268	COMPLIES
Unconditioned					=		≥			=		
Controls Compliance (See Table H for Details)												COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)												

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 includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Community Day School	**Report Page:** (Page 3 of 7)
	Date Prepared: 11/12/2025

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
A	A - 2x4 LED troffer	No	NA	34	Mfr. Spec	55	No	1,870	☐	☐
B	B - 2x2 LED troffer	No	NA	20.9	Mfr. Spec	8	No	167.2	☐	☐
C	C - 1x4 LED Surface	No	NA	33	Mfr. Spec	7	No	231	☐	☐
Total Designed Watts: CONDITIONED SPACES								2,268		

[1] *FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2] *Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Field Inspector	
		Pass	Fail
Required >= 4,000W subject to multilevel	Whole Building Auto Time Switch	☐	☐

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Community Day School	**Report Page:** (Page 4 of 7)
	Date Prepared: 11/12/2025

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
Whole Building	All Other Space Types	Readily Accessible	Dimmer	See Building Level	Included	Included	No	☐	☐
					13				
					Plan Sheet Showing Daylit Zones:				

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Classroom	Classroom, Lecture, or Training Vocational	0.6	3,411	2,046.6	No	No
Small Office	Office (<=250 square feet)	0.65	545	354.2	No	No
Large Office	Office (>250 square feet)	0.6	362	217.2	No	No
Restroom	Restroom	0.65	405	263.2	No	No
Other	All Other Space Types	0.4	46	18.4	No	No
		TOTALS:	4,769	2,899.6	See Tables J, or P for detail	

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R.J. HARDIN
NO. 9125

Consultant

Community Day School Modernization
Merced City Unified School District
Merced, CA, 95340

Project

TITLE 24 COMPLIANCE FORMS
BUILDING A

Drawing

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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

	Designed By: RH	
Scale:	Drawn By: HDE	X/E901
Project Number: 2533	Checked By: RH	
Date: 2/9/26	Reviewed By: RH	

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STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTI-E**
Project Name: Community Day School	**Report Page:** **(Page 5 of 7)**
	Date Prepared: 11/12/2025

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTI-E**
Project Name: Community Day School	**Report Page:** **(Page 6 of 7)**
	Date Prepared: 11/12/2025

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections 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

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name 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
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Whole Building Time Switch;
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	Whole Building;
NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	Whole Building Demand Response;

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTI-E**
Project Name: Community Day School	**Report Page:** **(Page 7 of 7)**
Project Address:	**Date Prepared:** 11/12/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Richard J. Hardin, PE	Documentation Author Signature:
Company: Hardin-Davidson Engineering	Signature Date: 2025-11-12
Address: 356 Pollasky Ave, Ste 200	CEA/ HERS Certification Identification (if applicable): E-9125
City/State/Zip: Clovis CA 93612	Phone: 559-323-4995

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: Richard J. Hardin	Responsible Designer Signature:
Company: Hardin-Davidson Engineering	Date Signed: 2025-11-12
Address: 356 Pollasky Ave Ste 200	License: E-9125
City/State/Zip: Clovis CA	Phone:

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTO-E**

This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.

Project Name: Community Day School	**Report Page:** **(Page 1 of 8)**
Project Address:	**Date Prepared:** 11/12/2025

A. GENERAL INFORMATION

01	Project Location (city)	Merced	04	Total Illuminated Hardscape Area (ft^2)	42242
02	Climate Zone	12			

03 Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ):

☐ LZ-0: Very Low - Undeveloped Parkland	☐ LZ-2: Moderate - Urban Clusters	☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval
☐ LZ-1: Low - Rural Areas	☒ LZ-3: Moderately High - Urban Areas	

05 Occupancy Types within Project

● Classroom ● Office ● Support Areas ● All Other Occupancies

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 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.

My Project Consists of:

01	02	
☒ New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6	
☐ 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.*

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTO-E**
Project Name: Community Day School	**Report Page:** **(Page 2 of 8)**
	Date Prepared: 11/12/2025

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. 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 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv												**Compliance Results**			
01		02		03		04		05		06		07		08	09
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
1,667	+	148	+	---	+	---	+	---	OR	---	=	1,815	≥	1,597	COMPLIES

Shielding Compliance (See Table G for Details)	N/A
Controls Compliance (See Table H for Details)	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 includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTO-E**
Project Name: Community Day School	**Report Page:** **(Page 3 of 8)**
	Date Prepared: 11/12/2025

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 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)2L 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). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

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 [2]	Luminaire Status[3]	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)1[4]	Field Inspector	
										Pass	Fail
P1	P1 - LED Wall Pack	☐ Linear	18.5	Mfr. Spec	16	New	☐	296	NA: < 6200 lumens	☐	☐
S1	S1 - 25 ft 1 Head Pole	☐ Linear	108	Mfr. Spec	4	New	☐	432	NA: < 6200 lumens	☐	☐
S2	S2 - 25 ft 2 Head Pole	☐ Linear	216	Mfr. Spec	2	New	☐	432	NA: < 6200 lumens	☐	☐
S3	S3 - 25 ft 1 Head Pole	☐ Linear	108	Mfr. Spec	3	New	☐	324	NA: < 6200 lumens	☐	☐
S4	S4 - 25 ft 1 Head Pole	☐ Linear	113	Mfr. Spec	1	New	☐	113	NA: < 6200 lumens	☐	☐
							Total Design Watts:	1597			

* 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) / 160.5(b)*

[2] *For linear luminaires, wattage should be indicated as W/lf 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 shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)*

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTO-E**
Project Name: Community Day School	**Report Page:** **(Page 4 of 8)**
	Date Prepared: 11/12/2025

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

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.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector	
				Pass	Fail
Exterior Poles	Astronomical Timer	Provided	Provided	☐	☐
Exterior Building	Astronomical Timer	Provided	NA: Each Luminaire <= 40 Watts	☐	☐

[1] *FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.*

[2] *Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.*

[3] *Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.*

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTO-E**
Project Name: Community Day School	**Report Page:** **(Page 5 of 8)**
	Date Prepared: 11/12/2025

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. 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.
Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

01				
	"Use it or lose it" Allowance (select all that apply) (select all that apply)			
☒ General Hardscape Allowance Table I (below)	☒ 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 for Nonresidential & Hotel/Motel

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Total General AWA + LWA (Watts)
	Illuminated Area (ft^2)	Allowed Density (W/ft^2)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
Parking Lot	27188	0.021	570.9	1070	0.2	214	785
Pedestrian	15054	0.021	316.1	1579	0.2	315.8	632
						Initial Wattage Allowance for Entire Site (Watts):	250
						Instances of Initial Wattage Allowance (LZ 0 only)[1]	
						Total General Hardscape Allowance (Watts):	1667

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTO-E**
Project Name: Community Day School	**Report Page:** **(Page 6 of 8)**
	Date Prepared: 11/12/2025

J. LIGHTING ALLOWANCE: PER APPLICATION

This table includes areas using the wattage allowance per application from Table 140.7-B / Table 170.2-S.

01	02	03	04	05	06	07	08	09	10
Area Description	Application per Table 140.7-B[1]	**CALCULATED ALLOWANCE (Watts)**			**DESIGN WATTS**				Additional Allowance (Watts)
		# of Locations	Allowance per Location[2]	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	
Entrances	Building Entrance/Exit	8	19	152	P1	18.5	8	148	148
							Total Design Watts for this Area:	148	
								Total Allowance (Watts) All Areas:	148

[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 /Table 170.2-S.*

[3] *For luminaires indicated in Table F as linear, wattage in column 07 is W/lf 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.

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

Hardin-Davidson Engineering
356 Pollasky Ave., Suite 200, Clovis, CA 93612
559.323.4995 • www.hardin-davidson.com

R. J. HARDIN
NO. 9125
ELECTRICAL

Consultant

Community Day School Modernization
Merced City Unified School District
Merced, CA, 95340

Project

TITLE 24 COMPLIANCE FORMS
BUILDING A

Drawing

ARCHITECTURE
PLANNING
INTERIORS
darden architects
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

	Designed By: RH	
Scale:	Drawn By: HDE	X/E902
Project Number: 2533	Checked By: RH	
Date: 2/9/26	Reviewed By: RH	

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STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTO-E**
Project Name: Community Day School	**Report Page:** **(Page 7 of 8)**
	Date Prepared: 11/12/2025

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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Form/Title
NRCI-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	Exterior Poles; Exterior Building;

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTO-E**
Project Name: Community Day School	**Report Page:** **(Page 8 of 8)**
Project Address:	**Date Prepared:** 11/12/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Richard J. Hardin, PE	Documentation Author Signature:
Company: Hardin-Davidson Engineering	Signature Date: 2025-11-12
Address: 356 Pollasky Ave, Ste 200	CEA/ HERS Certification Identification (if applicable): E-9125
City/State/Zip: Clovis CA 93612	Phone: 559-323-4995

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.
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Responsible Designer Name: Richard J. Hardin	Responsible Designer Signature:
Company: Hardin-Davidson Engineering	Date Signed: 2025-11-12
Address: 356 Pollasky Ave Ste 200	License: E-9125
City/State/Zip: Clovis CA	Phone:

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

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R.J.HARDIN
NO. 9125

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Community Day School Modernization
Merced City Unified School District
Merced, CA, 95340

Project

TITLE 24 COMPLIANCE FORMS

BUILDING A

Drawing

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GRANT E. DODSON
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Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

	Designed By: RH	
Scale:	Drawn By: HDE	X/E903
Project Number: 2533	Checked By: RH	
Date: 2/9/26	Reviewed By: RH	

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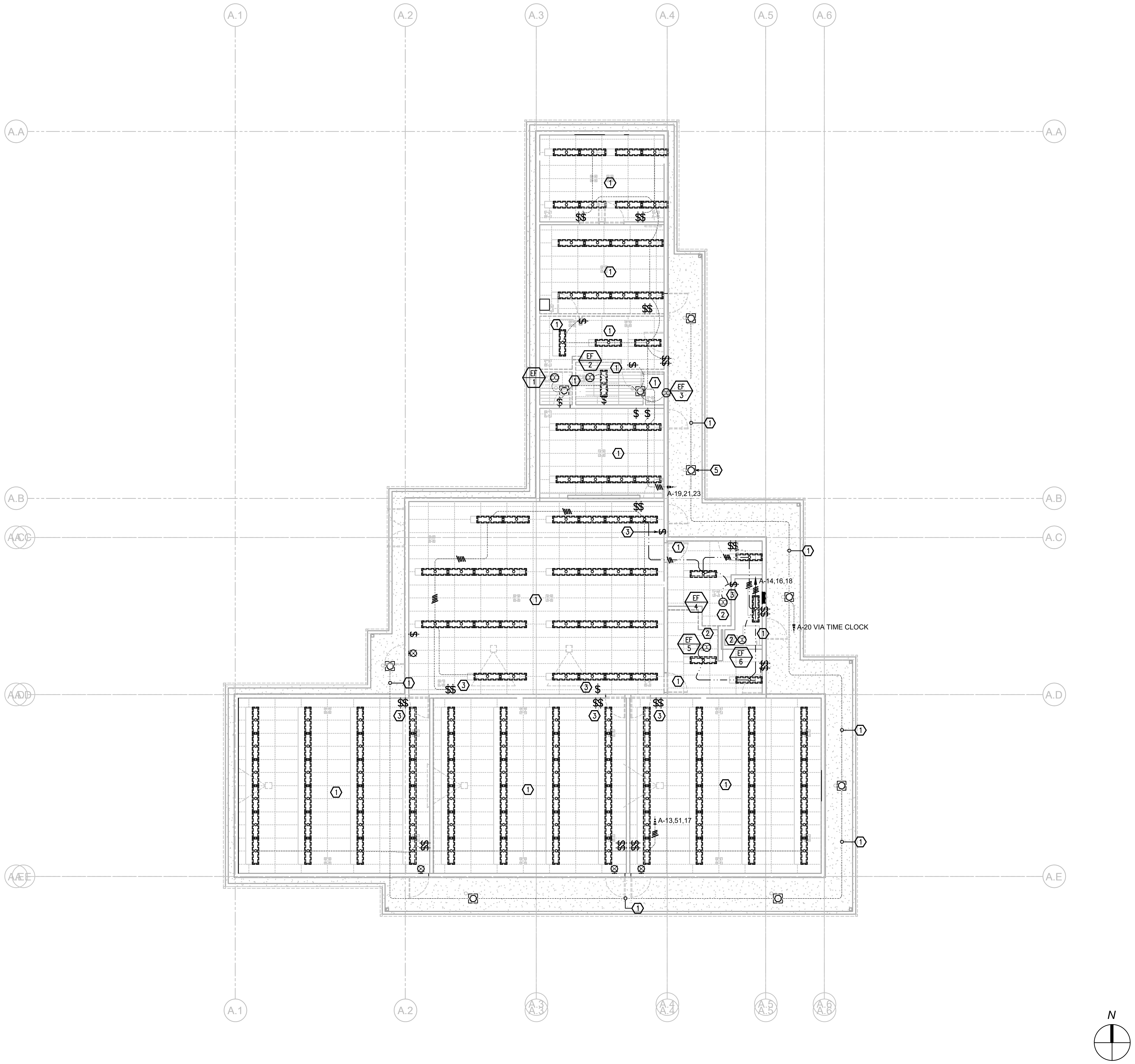

A8
1/8" = 1'-0"
Demolition Lighting Plan

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

DRAWING KEY NOTES

1. DISCONNECT & REMOVE EXISTING LIGHTING, CONTROLS, WIRING & EXPOSED CONDUIT. EXISTING WIRING MAY REMAIN IF NOT DAMAGED. ADD DEDICATED NEUTRAL CONDUCTOR(S) WHERE EXISTING MULTI-WIRE BRANCH CIRCUITS ARE PRESENT.
2. DISCONNECT EXISTING FAN FOR REPLACEMENT BY MECHANICAL. COORDINATE WITH MECHANICAL FOR REPLACEMENT AND WIRING OF CONTROL DEVICES.
3. REMOVE EXISTING UNUSED SWITCH/OUTLET/JUNCTION BOX AND CONDUIT BACK TO SOURCE. PATCH WALL BACK PER ARCHITECTURAL SPECIFICATIONS.
4. NOT USED.
5. DEMO EXISTING DOWNLIGHT, CONDUCTORS AND ACCESSIBLE CONDUIT. TYP. PATCH AND PAINT PER ARCHITECTURAL SPECIFICATIONS.

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Project

BUILDING A
DEMOLITION LIGHTING PLAN

Drawing

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GRANT E. DODSON
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Architect

No.	Revision/Submission	Date

Revision

	Designed By: RH	Copyright 2026 Darden Architects
Scale:	Drawn By: HDE	A/E100
Project Number: 2533	Checked By: RH	
Date: 2/9/26	Reviewed By: RH	

DSA File No.:
24-35

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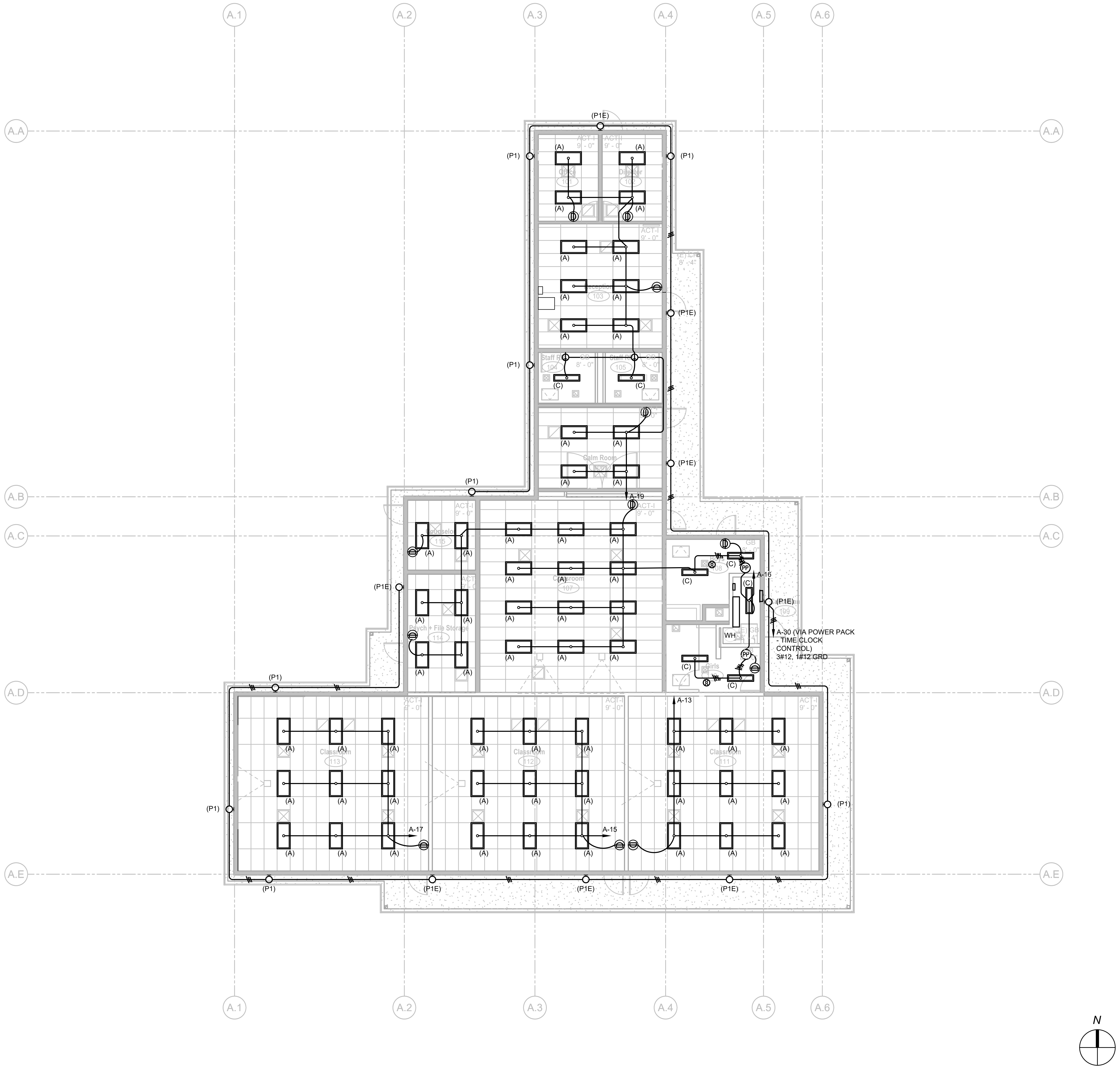

A-30 (VIA POWER PACK
- TIME CLOCK
CONTROL)
3#12, 1#12 GRD

A1 Lighting Plan
1/8" = 1'-0"

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Project

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LIGHTING PLAN

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Architect

No.	Revision/Submission	Date

Revision

	Designed By: RH	
Scale:	Drawn By: HDE	A/E101
Project Number: 2533	Checked By: RH	
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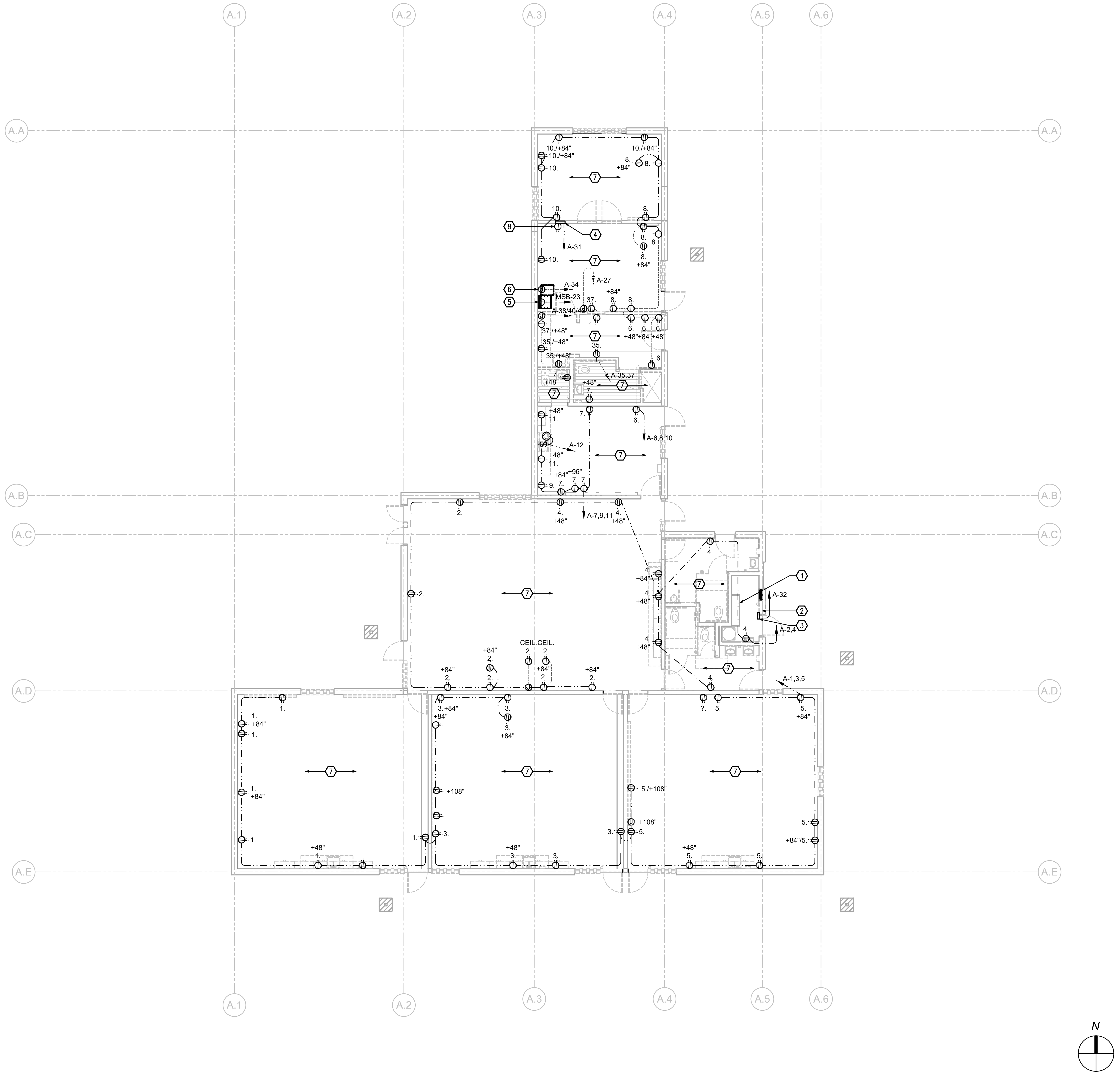
DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

DRAWING KEY NOTES

1. EXISTING MAIN SWITCHBOARD 'MSB' TO REMAIN. 400A, 120/208V, 3PH, 4W, NEMA 1.
2. EXISTING PANEL 'A' TO REMAIN. 200A, 120/208V, 3PH, 4W, NEMA 1, FLUSH.
3. EXISTING SECURITY SYSTEM AND CIRUIT TO REMAIN. VERIFY CIRCUIT. DOCUMENT ON AS-BUILT PLANS IF DIFFERENT.
4. EXISTING FIRE ALARM PANEL TO BE REPLACED. EXISTING CIRCUIT TO REMAIN. VERIFY CIRCUIT. DOCUMENT ON AS-BUILT PLANS IF DIFFERENT.
5. EXISTING IDF CABINET TO REMAIN WITH POWER CIRCUIT TO REMAIN. VERIFY CIRCUIT. DOCUMENT ON AS-BUILT PLANS IF DIFFERENT.
6. EXISTING EMS SYSTEM WITH POWER CIRCUIT TO REMAIN. DOCUMENT ON AS-BUILT PLANS IF DIFFERENT.
7. DEMO EXISTING RECEPTACLES, OUTLETS, SURFACE RACEWAY, WIRING AND ACCESSIBLE CONDUIT. RECONNECT ANY FEED THROUGH WIRING AS REQUIRED. SEE SHEET A/E201 FOR NEW INSTALLATION. RECEPTACLES IN SAME LOCATIONS WILL NEED TO BE RAISED OR LOWERED.
8. DEVICE ON UNKNOWN CIRCUIT. IDENTIFY EXISTING CIRCUIT AND COORDINATE WITH NEW WORK.



GENERAL SHEET NOTES

1. EXISTING CIRCUITS SHOWN ARE BASED ON INCOMPLETE AS-BUILTS AND OBSERVED PANEL SCHEDULES. THE CONTRACTOR SHALL REVIEW THE SITE PRIOR TO BIDDING AND MAKE ALLOWANCES FOR VARIANCES. THE CONTRACTOR SHALL VERIFY ALL CIRCUITS PRIOR TO PERFORMING WORK. VERIFY WITH DISTRICT ANY CIRCUITS THAT MUST REMAIN ON. ANY WORK THAT WILL IMPACT THESE CIRCUITS SHALL BE COORDINATED WITH THE DISTRICT TO MINIMIZE IMPACT TO DISTRICT OPERATIONS.
2. THE AS-BUILT DRAWINGS SHOW THAT MUCH OF THE CIRCUITING IS UNDERGROUND. THE CONTRACTOR SHALL MAKE ALLOWANCE TO CLEAR THE UNDERGROUND RACEWAYS OF ANY DEBRIS OR WATER PRIOR TO INSTALLATION OF NEW CONDUCTORS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE DEMOLITION CONTRACTOR WHEN ANY SAW CUTTING IS PERFORMED ON THE EXISTING CONCRETE PAD TO VERIFY ROUTING OF ANY RACEWAYS UNDER OR POSSIBLY WITHIN THE PAD.
3. EXISTING CONDUIT AND PATHWAYS MAY BE REUSED IF CONDUIT IS UNDAMAGED. EXISTING CONDUCTORS MAY BE REUSED IF THEY ARE OF THE CURRENTLY SPECIFIED MATERIAL. HOMERUNS MAY BE COMBINED INTO SINGLE CONDUITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALCULATING THE PROPER CONDUIT FILL AND DERATING OF THE CONDUCTORS. MULTIWIRE BRANCH CIRCUITS ARE NO ACCEPTABLE. ALL CIRCUITS MUST HAVE A DEDICATED NEUTRAL AND AN EQUIPMENT GROUND CONDUCTOR MUST BE PRESENT IN THE RACEWAY.

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No.	Revision/Submission	Date

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A1 Demolition Power Plan
1/8" = 1'-0"

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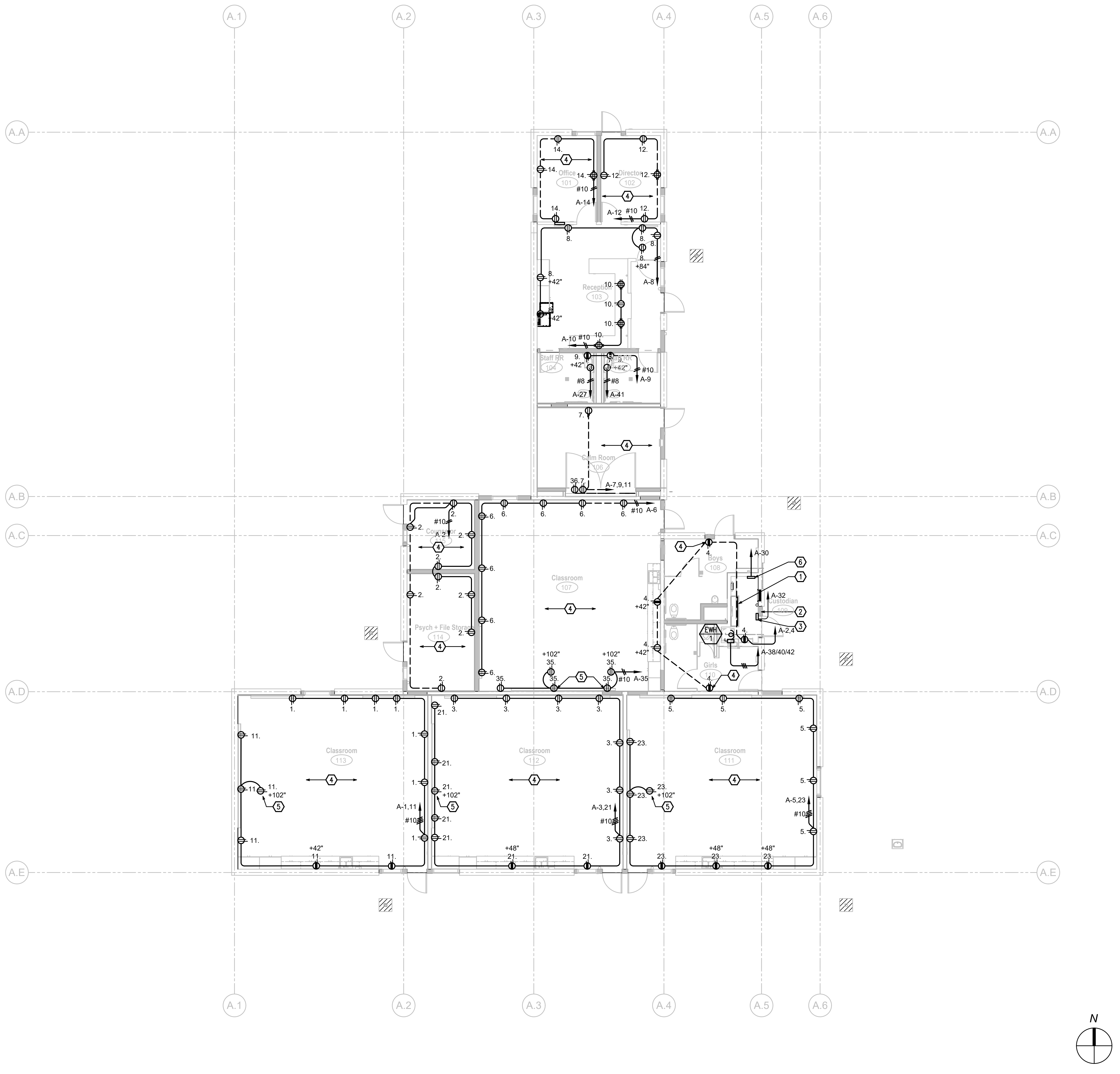
DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

DRAWING KEY NOTES

1. EXISTING MAIN SWITCHBOARD 'MSB' TO REMAIN. 400A, 120/208V, 3PH, 4W, NEMA 1.
2. EXISTING PANEL 'A' TO REMAIN. 200A, 120/208V, 3PH, 4W, NEMA 1, FLUSH.
3. EXISTING SECURITY SYSTEM AND CIRUIT TO REMAIN. VERIFY CIRCUIT. DOCUMENT ON AS-BUILT PLANS IF DIFFERENT.
4. PROVIDE ALL NEW POWER, NEW RECESSED RECEPTACLES, & CONCEALED WIRING. RAISE RECEPTACLES AS REQUIRED TO THE STANDARD RECEPTACLE HEIGHT SHOWN IN THE SYMBOL SCHEDULE. COORDINATE RECEPTACLES WITH ARCHITECTURAL. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT AND ENGINEER IMMEDIATELY FOR COORDINATION.
5. NEW TEACHING WALL PROJECTOR LOCATION. VERIFY EXACT LOCATION ABOVE NEW MARKER BOARD. PROVIDE ALL RACEWAYS AND OUTLET BOXES AS SHOWN. REFERENCE DETAILS ON SHEET A13/X/E402. (REFER TO SPECS FOR "OWNER FURNISHED ITEMS").
6. NEW LIGHTING CONTROL PANEL 'LCP'. SEE DETAIL D1/X/E202. CONNECT TO CIRCUIT 'A-30' 3/4"C. 2#12, 1#12G.



A1
Power Plan
1/8" = 1'-0"

GENERAL SHEET NOTES

1. EXISTING CIRCUITS SHOWN ARE BASED ON INCOMPLETE AS-BUILTS AND OBSERVED PANEL SCHEDULES. THE CONTRACTOR SHALL REVIEW THE SITE PRIOR TO BIDDING AND MAKE ALLOWANCES FOR VARIANCES. THE CONTRACTOR SHALL VERIFY ALL CIRCUITS PRIOR TO PERFORMING WORK. VERIFY WITH DISTRICT ANY CIRCUITS THAT MUST REMAIN ON. ANY WORK THAT WILL IMPACT THESE CIRCUITS SHALL BE COORDINATED WITH THE DISTRICT TO MINIMIZE IMPACT TO DISTRICT OPERATIONS.
2. THE AS-BUILT DRAWINGS SHOW THAT MUCH OF THE CIRCUITING IS UNDERGROUND. THE CONTRACTOR SHALL MAKE ALLOWANCE TO CLEAR THE UNDERGROUND RACEWAYS OF ANY DEBRIS OR WATER PRIOR TO INSTALLATION OF NEW CONDUCTORS IF REUSING THEM. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE DEMOLITION CONTRACTOR WHEN ANY SAW CUTTING IS PERFORMED ON THE EXISTING CONCRETE PAD TO VERIFY ROUTING OF ANY RACEWAYS UNDER OR POSSIBLY WITHIN THE PAD.
3. EXISTING CONDUIT AND PATHWAYS MAY BE REUSED IF CONDUIT IS UNDAMAGED. EXISTING CONDUCTORS MAY BE REUSED IF THEY ARE OF THE CURRENTLY SPECIFIED MATERIAL. HOMERUNS MAY BE COMBINED INTO SINGLE CONDUITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALCULATING THE PROPER CONDUIT FILL AND DERATING OF THE CONDUCTORS. MULTIWIRE BRANCH CIRCUITS ARE NOT ACCEPTABLE. ALL CIRCUITS MUST HAVE A DEDICATED NEUTRAL AND AN EQUIPMENT GROUND CONDUCTOR MUST BE PRESENT IN THE RACEWAY.

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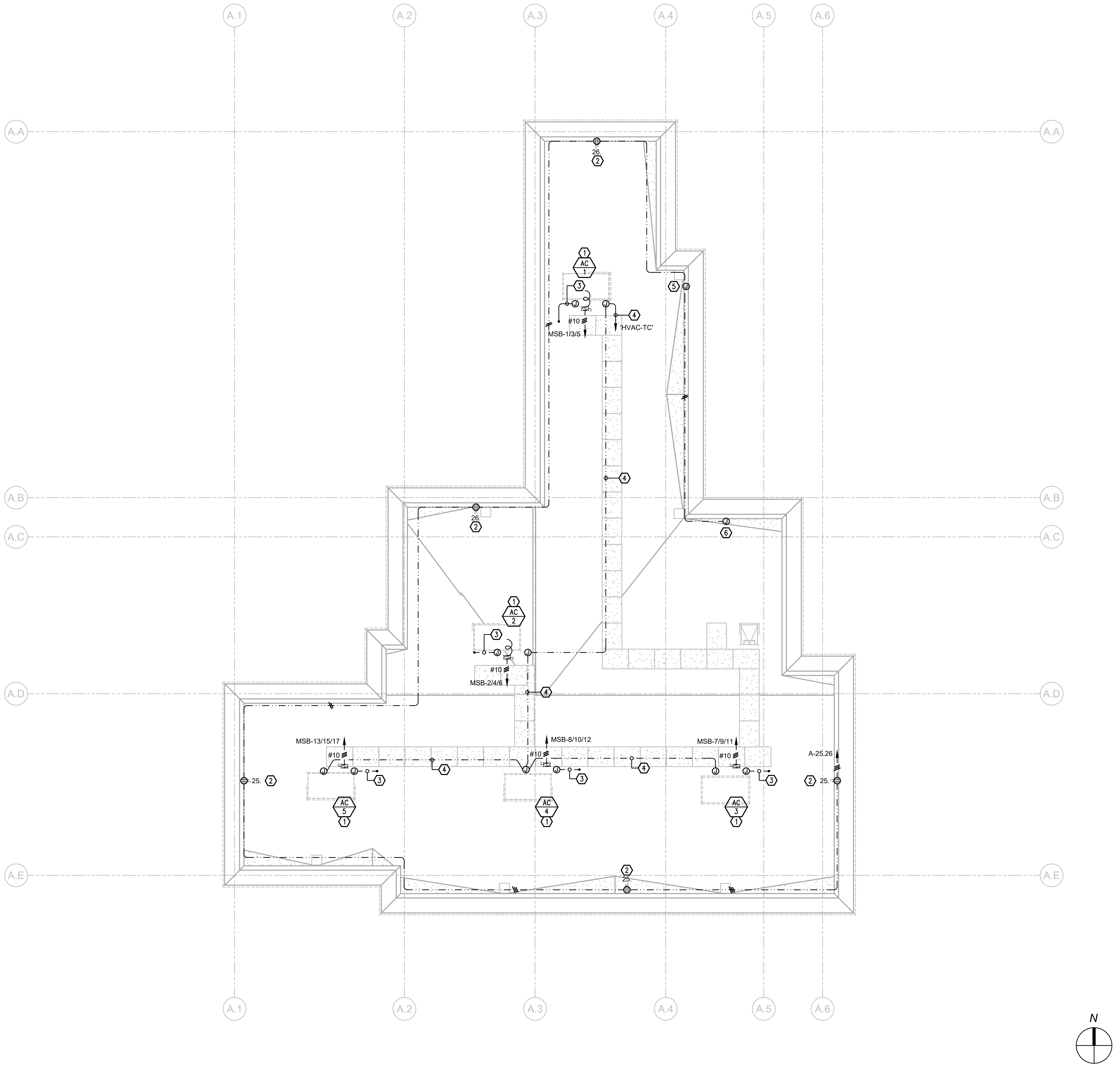

A1

Roof Demolition Power Plan

1/8" = 1'-0"

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

DRAWING KEY NOTES ⟨#⟩

1. DISCONNECT & REMOVE EXISTING DISCONNECT SWITCHES AND CONDUCTORS FEEDING EXISTING ROOFTOP MECHANICAL EQUIPMENT. EXISTING CONDUIT TO REMAIN. EXISTING CONDUIT SYSTEM IS DRAWN DIAGRAMMATICALLY. VERIFY EXACT CONFIGURATION AND ROUTING IN FIELD PRIOR TO BIDDING. SEE SHEET A/E211 FOR REPLACEMENT.
2. DISCONNECT EXISTING WEATHER PROOF ROOF TOP RECEPTACLE FOR REPLACEMENT. EXISTING CONDUIT SYSTEM IS DRAWN DIAGRAMMATICALLY. VERIFY EXACT ROUTING IN FIELD PRIOR TO BIDDING. SEE SHEET A/E211 FOR REPLACEMENT.
3. REMOVE EXISTING HVAC THERMOSTAT CONNECTION CONDUIT. REMOVE EXISTING EXPOSED CONDUIT. EXISTING CONDUIT SYSTEM IS DRAWN DIAGRAMMATICALLY. VERIFY EXACT CONFIGURATION AND ROUTING IN FIELD PRIOR TO BIDDING.
4. REMOVED EXISTING HVAC TIME CLOCK WIRING. REMOVE EXISTING EXPOSED CONDUIT. EXISTING CONDUIT SYSTEM IS DRAWN DIAGRAMMATICALLY. VERIFY EXACT CONFIGURATION AND ROUTING IN FIELD PRIOR TO BIDDING.
5. EXISTING UNKNOWN W.P. JUNCTION BOX. DOCUMENT USE ON AS-BUILT PLANS.

GENERAL SHEET NOTES

1. EXISTING CIRCUITS ARE SHOWN BASED ON AVAILABLE AS-BUILT DRAWINGS AND REVIEW OF EXISTING CONDITIONS. CONTRACTOR TO VERIFY EXISTING CIRCUITS AND ROUTING.
2. ALL WIRING SHALL BE RUN UNDER THE ROOF.

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Grant E Dod

Architect

No.	Revision/Submission	Date

Revision

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DSA Application No.:
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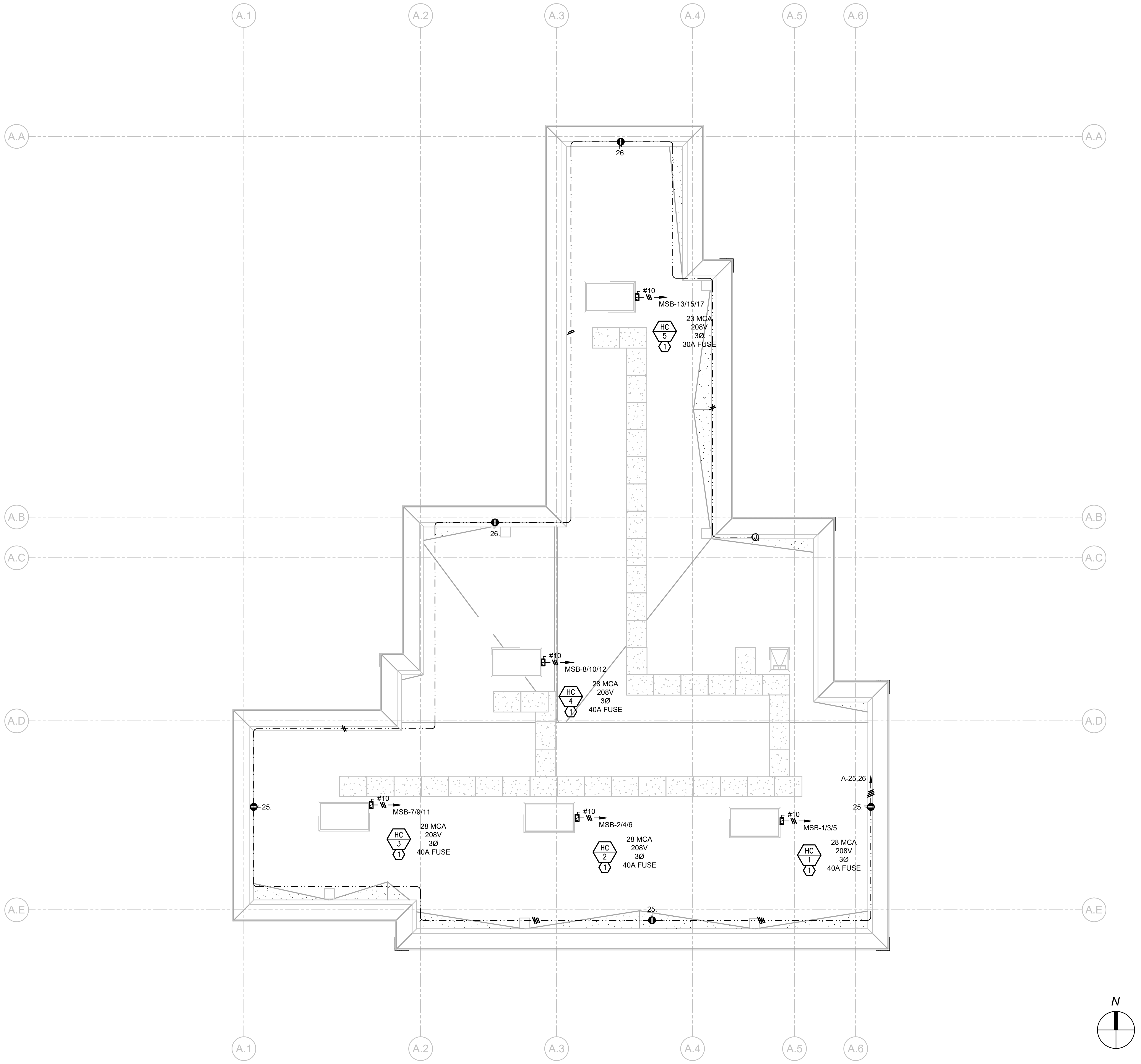
Agency Approval

DRAWING KEY NOTES ⟨#⟩

1. CONNECT NEW HC UNIT TO CIRCUIT AS SHOWN. PROVIDE NEW 40A / 3P CIRCUIT BREAKER. PROVIDE NEW 3#10CU, 1#10CU GRD. PROVIDE AND INSTALL NEW 60A, 208V, 3 POLE, NEMA 3R FUSED DISCONNECT SWITCH (FUSES PER MANUFACTURER REQUIREMENTS) FOR HC UNIT.

2. CONNECT NEW HC UNIT TO CIRCUIT AS SHOWN. PROVIDE NEW 30A / 3P CIRCUIT BREAKER. PROVIDE NEW 3#10CU, 1#10CU GRD. PROVIDE AND INSTALL NEW 30A, 208V, 3 POLE, NEMA 3R FUSED DISCONNECT SWITCH (FUSES PER MANUFACTURER REQUIREMENTS) FOR HC UNIT.

3. PROVIDE NEW GFCI PROTECTED, WEATHER RESISTANT 20A, 120V RECEPTACLE WITH WEATHER PROOF WHILE-IN-USE COVER IN EXISTING LOCATION. VERIFY EXACT LOCATION IN FIELD. RECONNECT TO EXISTING RECEPTACLE CIRCUIT WITH NEW 2#12, 1#12GRD IN EXISTING CONDUIT. DOCUMENT EXISTING CIRCUIT IF DIFFERENT FROM THAT SHOWN.



A1
Roof Power Plan
1/8" = 1'-0"

GENERAL SHEET NOTES

1. EXISTING CIRCUITS ARE SHOWN BASED ON AVAILABLE AS-BUILT DRAWINGS AND REVIEW OF EXISTING CONDITIONS. CONTRACTOR TO VERIFY EXISTING CIRCUITS AND ROUTING.

2. ALL WIRING SHALL BE RUN UNDER THE ROOF.

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A/E211

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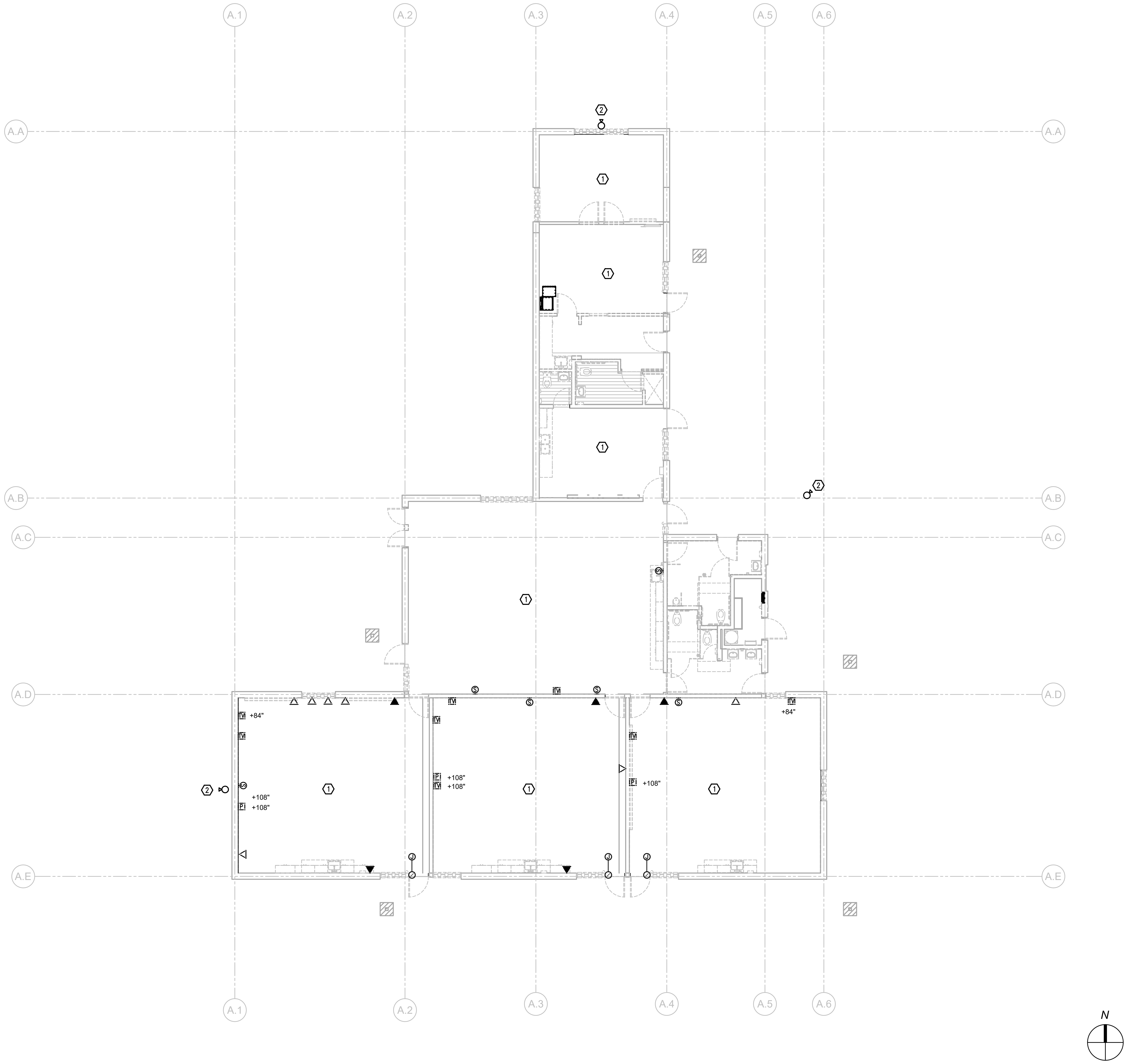

A1 Demolition Low Voltage Plan
1/8" = 1'-0"

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

DRAWING KEY NOTES ⟨#⟩

1. REMOVE SURFACE WIREMOLD TO PTV, WIREMOLD TO SURFACE RECEPTACLE, & SURFACE RECEPTACLE (NOT SHOWN). MAINTAIN ORIGINAL RECEPTACLES & REPLACE DEVICES, RINGS, & COVER PLATES. MAINTAIN EXISTING OUTLETS, TELEPHONES , CLOCKS, & SPEAKERS REQUIRED TO REMAIN.
2. EXISTING EXTERIOR CCTV CAMERAS MOUNTED ON BUILDING EXTERIOR TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.

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Merced, CA, 95340

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BUILDING A
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LICENSED ARCHITECT
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No.	Revision/Submission	Date

Revision

	Designed By: RH	Copyright 2026 Darden Architects
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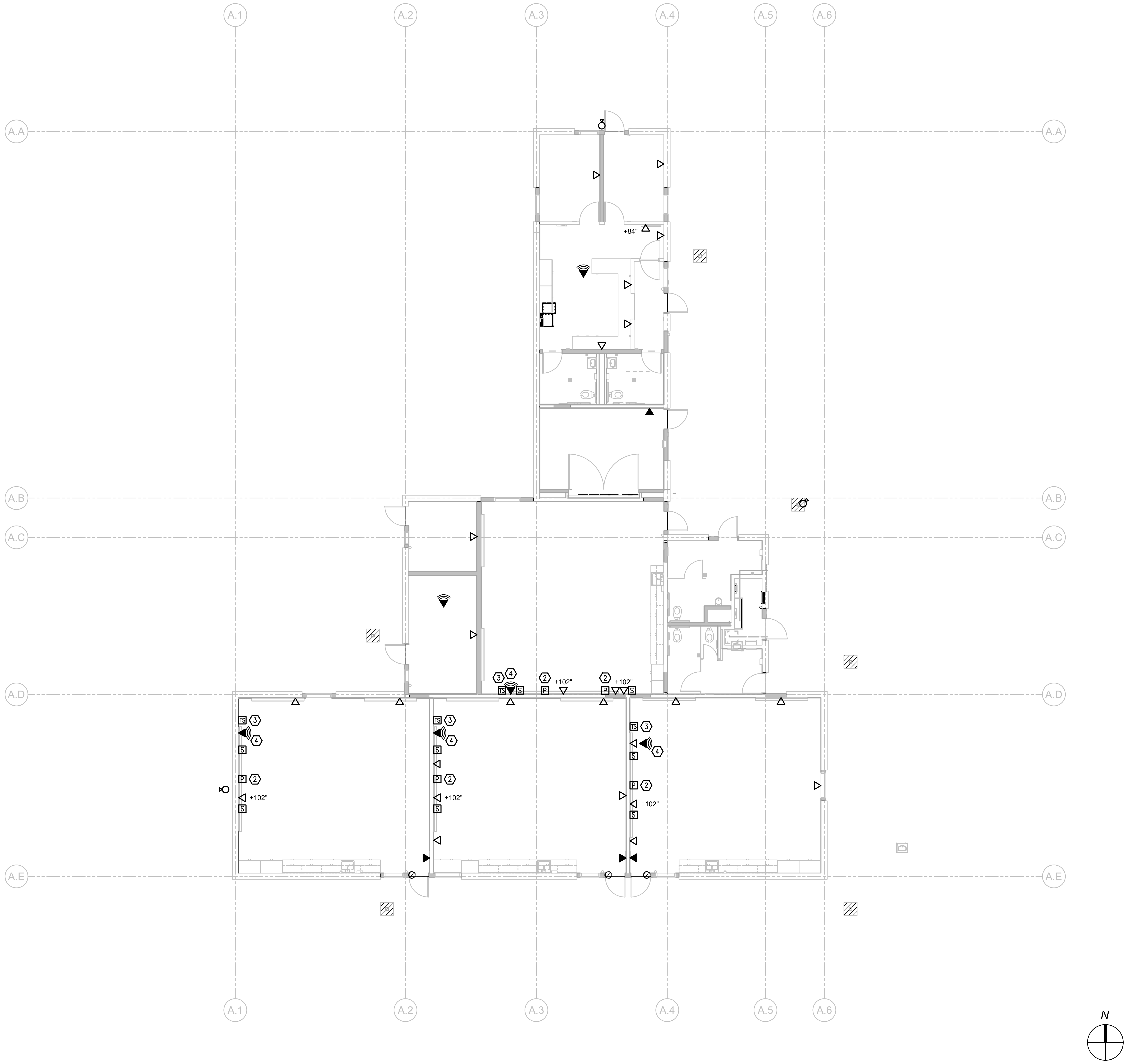

A1
Low Voltage Plan
1/8" = 1'-0"

DSA File No.:
24-35

DSA Application No.:
02-123716

Agency Approval

DRAWING KEY NOTES ⟨#⟩

1. NOT USED.
2. NEW TEACHING WALL PROJECTOR LOCATION. VERIFY EXACT LOCATION ABOVE NEW MARKER BOARD. PROVIDE ALL RACEWAYS AND OUTLET BOXES AS SHOWN. REFERENCE DETAILS ON SHEET A13/X/E402. (REFER TO SPECS FOR "OWNER FURNISHED ITEMS").
3. AT TEACHER'S STATION LOCATION, VERIFY EXACT LOCATION NEXT TO NEW MARKER BOARD. PROVIDE ALL RACEWAYS AND OUTLET BOXES AS SHOWN. REFERENCE DETAILS ON SHEET A13/X/E402. (REFER TO SPECS FOR "OWNER FURNISHED ITEMS").
4. PROVIDE NEW RECESSED DATA OUTLET FOR WIRELESS ACCESS POINT. PROVIDE 4-11/16" BOX & 1G RING WITH 2 JACKS & 1"C-(2) CAT 6A (VERIFY) CONCEALED DATA CABLES TO EXISTING DATA IDF. VERIFY EXACT LOCATION & MOUNTING HEIGHTS. (CONCEALED WIRING)

GENERAL SHEET NOTES

1. INSTALL CONDUIT ALONG THE BACKSIDE OF SHEAR WALL SHEATHING. PER EXISTING DRAWINGS, SHEATHING IS SHOWN TO BE ON THE WEST FACE OF INTERIOR WALLS. FOR EXTERIOR WALLS ON EAST AND WEST ENDS OF WINGS, SHEATHING IS PLACED ON EXTERIOR FACE OF WALL WITH PLASTER.
2. IN AREAS WITH GYP BOARD OR OTHER SOLID CEILINGS, OR IF WALLS ARE NOT HAVING COVERINGS REMOVED, PROVIDE SURFACE MOUNTED WIREWAY. WIREWAY COLORS AND/OR FINISH SHALL BE AS SPECIFIED BY THE ARCHITECT. WIREWAYS SHALL BE INSTALLED PARALLEL AND PERPENDICULAR TO WALLS AND OTHER ARCHITECTURAL ITEMS. WHERE POSSIBLE, INSTALL SURFACE WIREWAYS IN CORDERS OF WALLS AND/OR CEILINGS.

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No.	Revision/Submission	Date

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24-35

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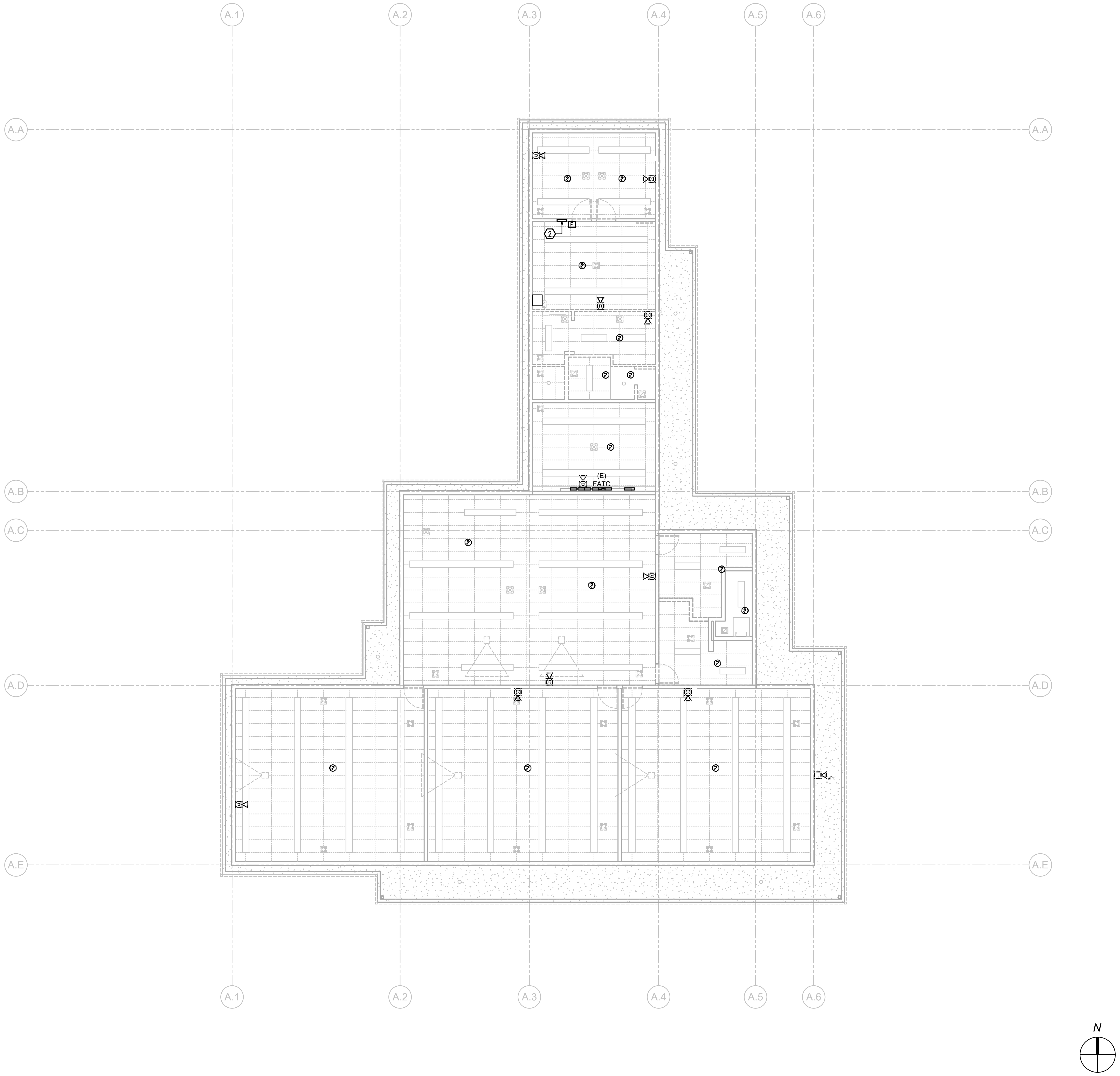
Agency Approval

DRAWING KEY NOTES ⟨#⟩

1. DISCONNECT ALL EXISTING FIRE ALARM SYSTEM DEVICES, APPLIANCES, PANELS, OUTLETS, & UNUSED ASSOCIATED CONDUIT & CABLING.
2. EXISTING FACP TO BE REPLACED. PROVIDE PATCH & PAINT PER ARCHITECTURAL SPECIFICATIONS AS REQUIRED. VERIFY CURRECT FUNCTION OF EXISTING DIALER AND RETAIN FOR INSTALLATION ON NEW SYSTEM.



A1 Demolition Fire Alarm Plan
1/8" = 1'-0"

GENERAL SHEET NOTES

1. INSTALL CONDUIT ALONG THE BACKSIDE OF SHEAR WALL SHEATHING. PER EXISTING DRAWINGS, SHEATHING IS SHOWN TO BE ON THE WEST FACE OF INTERIOR WALLS. FOR EXTERIOR WALLS ON EAST AND WEST ENDS OF WINGS, SHEATHING IS PLACED ON EXTERIOR FACE OF WALL WITH PLASTER.
2. IN AREAS WITH GYP BOARD OR OTHER SOLID CEILINGS, OR IF WALLS ARE NOT HAVING COVERINGS REMOVED, PROVIDE SURFACE MOUNTED WIREWAY. WIREWAY COLORS AND/OR FINISH SHALL BE AS SPECIFIED BY THE ARCHITECT. WIREWAYS SHALL BE INSTALLED PARALLEL AND PERPENDICULAR TO WALLS AND OTHER ARCHITECTURAL ITEMS. WHERE POSSIBLE, INSTALL SURFACE WIREWAYS IN CORDERS OF WALLS AND/OR CEILINGS.

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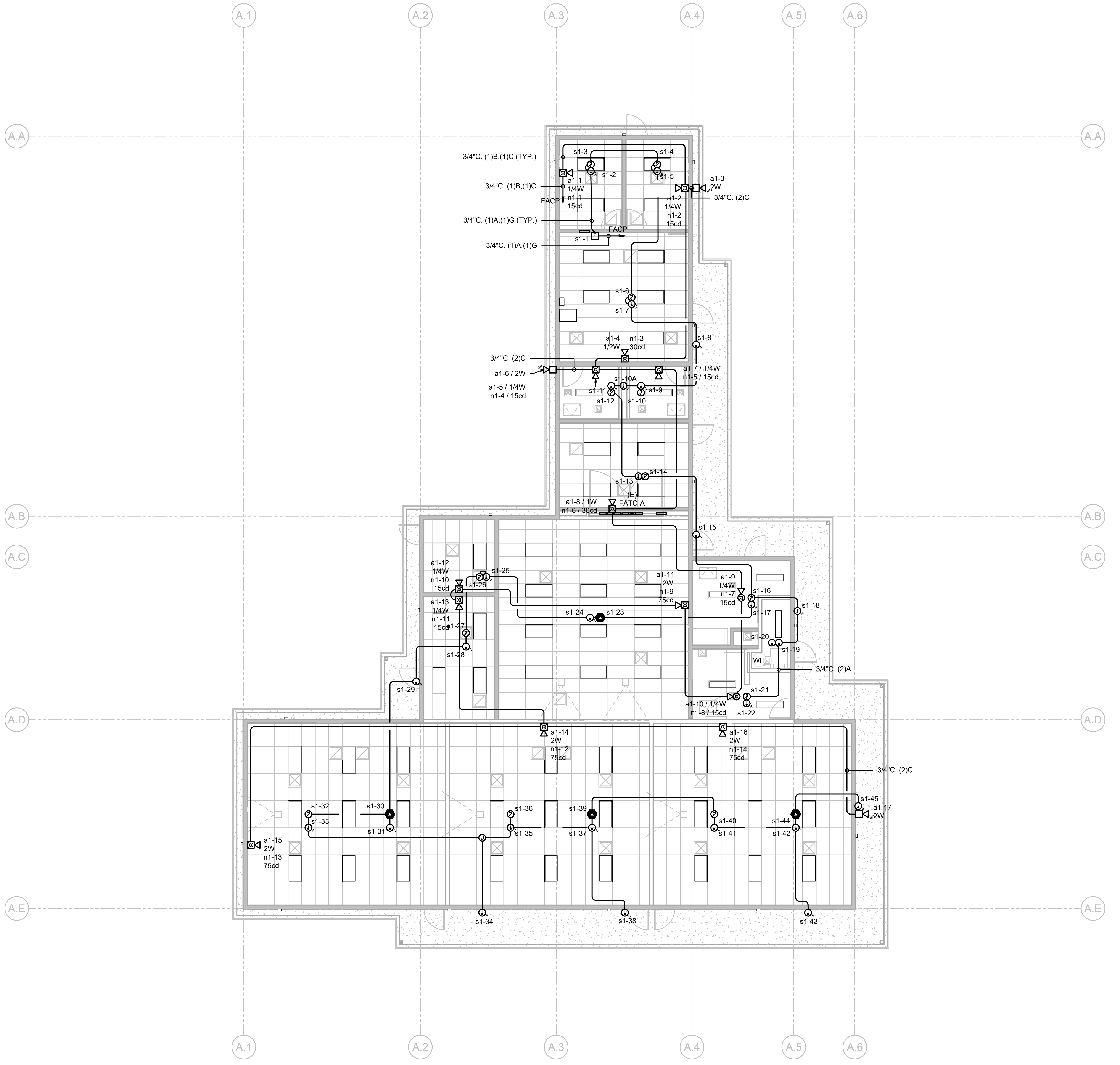

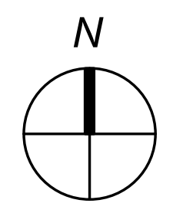

A1 Fire Alarm Plan
1/8" = 1'-0"

DSA File No.:
24-35

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DRAWING KEY NOTES ⟨#⟩

1. PROVIDE ALL NEW FIRE ALARM SYSTEM EQUIPMENT AS INDICATED. PROVIDE NEW CONCEALED CONDUIT & CABLING WHERE POSSIBLE.

GENERAL SHEET NOTES

1. INSTALL CONDUIT ALONG THE BACKSIDE OF SHEAR WALL SHEATHING. PER EXISTING DRAWINGS, SHEATHING IS SHOWN TO BE ON THE WEST FACE OF INTERIOR WALLS. FOR EXTERIOR WALLS ON EAST AND WEST ENDS OF WINGS, SHEATHING IS PLACED ON EXTERIOR FACE OF WALL WITH PLASTER.

2. IN AREAS WITH GYP BOARD OR OTHER SOLID CEILINGS, OR IF WALLS ARE NOT HAVING COVERINGS REMOVED, PROVIDE SURFACE MOUNTED WIREWAY. WIREWAY COLORS AND/OR FINISH SHALL BE AS SPECIFIED BY THE ARCHITECT. WIREWAYS SHALL BE INSTALLED PARALLEL AND PERPENDICULAR TO WALLS AND OTHER ARCHITECTURAL ITEMS. WHERE POSSIBLE, INSTALL SURFACE WIREWAYS IN CORDERS OF WALLS AND/OR CEILINGS.

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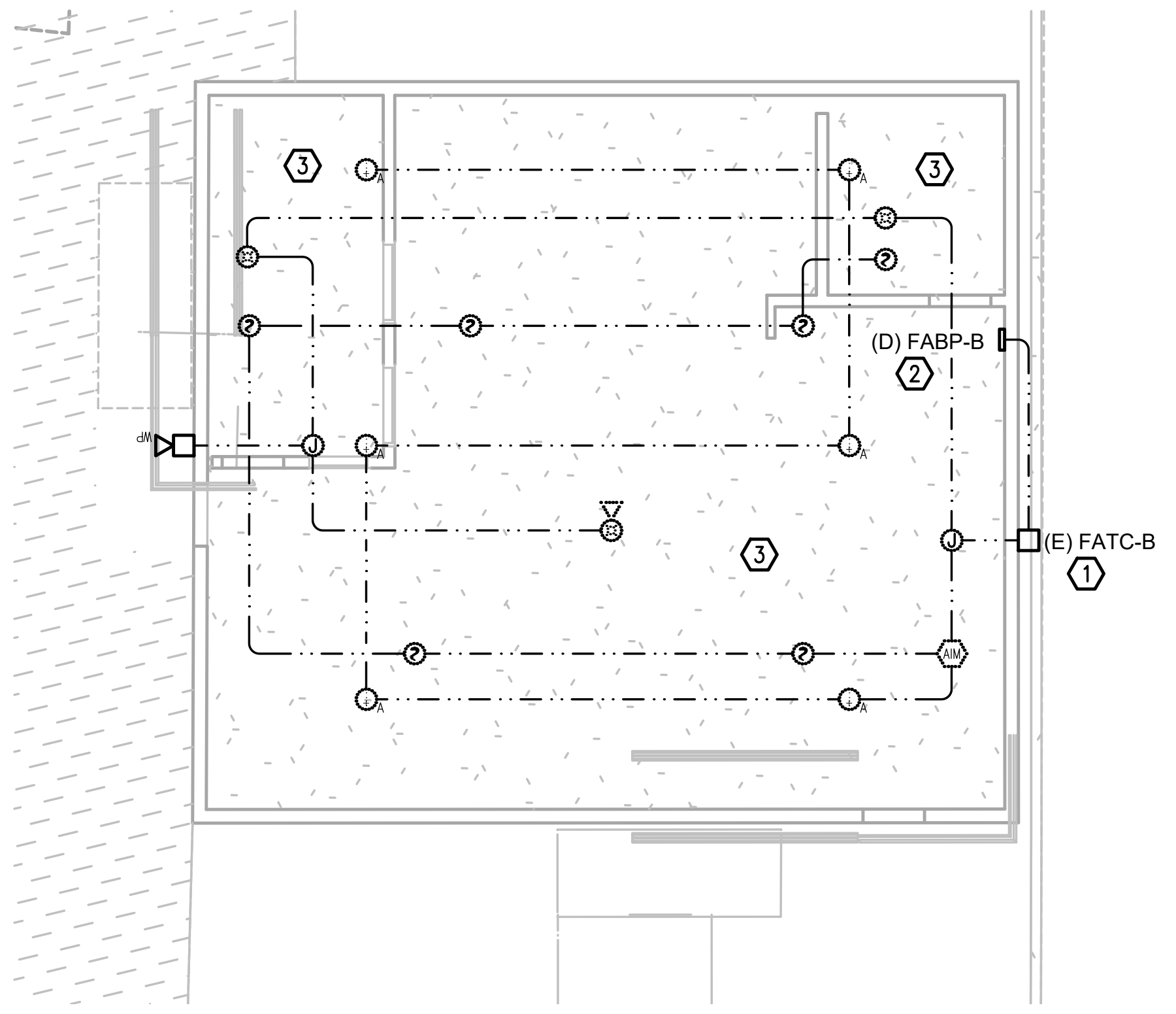
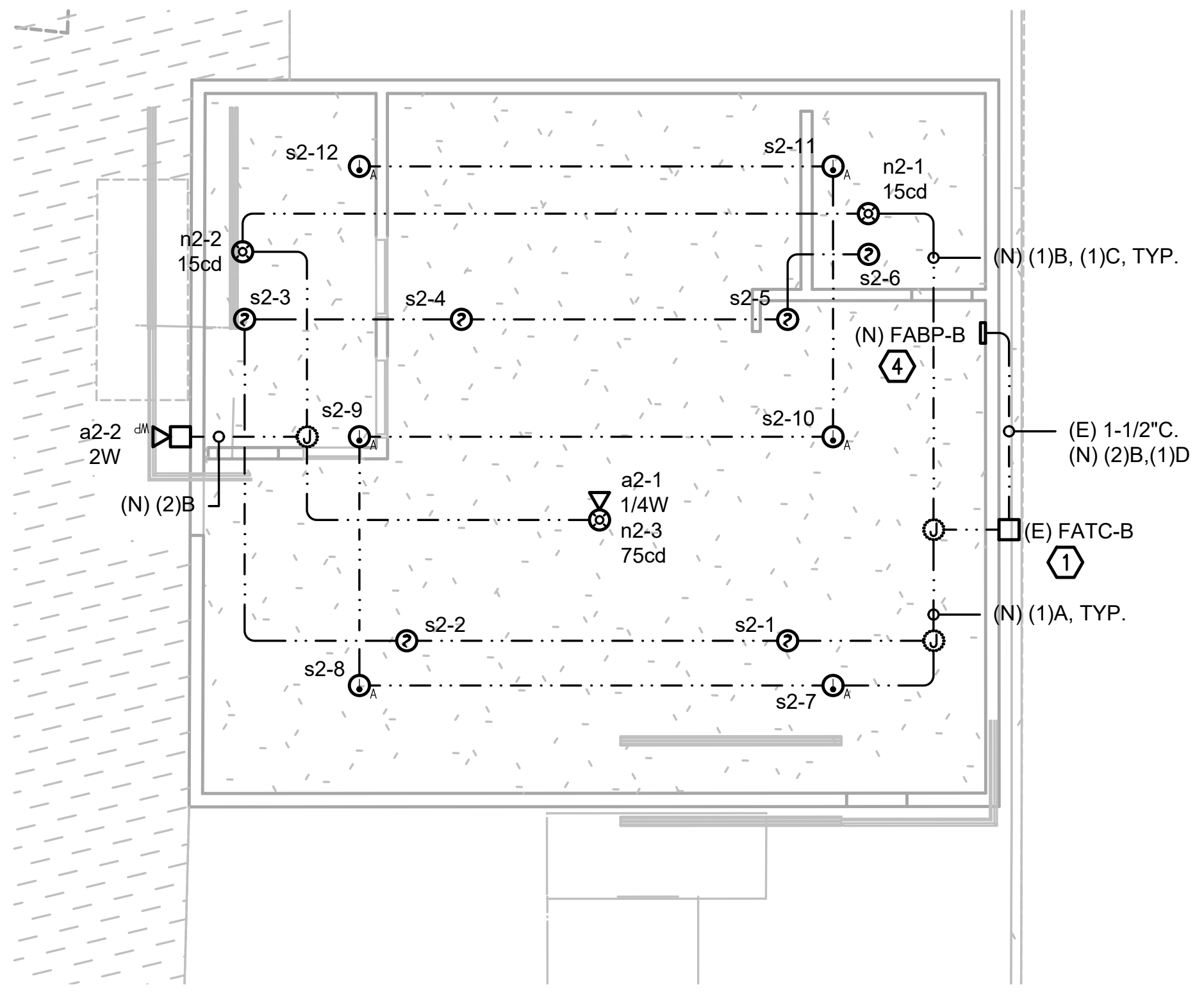
DRAWING KEY NOTES ⟨#⟩

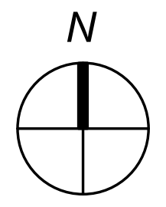
1. EXISTING FIRE ALARM TERMINAL CABINET 'FATC-B' TO REMAIN. DSA #02-11853. INSTALL NEW MONITOR MODULE TO MONITOR NEW BOOSTER PANEL.
2. EXISTING FIRE ALARM BOOSTER PANEL TO BE REPLACED.
3. DISCONNECT ALL EXISTING FIRE ALARM SYSTEM DEVICES, APPLIANCES, PANELS, OUTLETS, & UNUSED ASSOCIATED CONDUIT & CABLING. EXISTING CONDUIT SYSTEM TO BE REUSED.
4. PROVIDE AND INSTALL NEW FIRE ALARM BOOSTER PANEL 'FABP-B'. INSTALL PER DETAIL A10/X/E602.
5. INSTALL NEW FIRE ALARM DEVICES IN SAME LOCATION AS EXISTING.



A1
Demolition Fire Alarm Plan
1/8" = 1'-0"



A8
Fire Alarm Plan ⟨5⟩
1/8" = 1'-0"



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ELECTRICAL

Consultant

Community Day School Modernization
Merced City Unified School District
Merced, CA, 95340

Project

BUILDING B
FIRE ALARM PLANS

Drawing

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ARCHITECTURE
PLANNING
INTERIORS
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GRANT E. DODSON
No. C-20,307
Ren. 6-30-27

Architect

No.	Revision/Submission	Date

Revision

Designed By: RH

Scale:
Drawn By: HDE
Project Number: 2533
Checked By: RH
Date: 2/9/26
Reviewed By: RH

B/E400

DESIGN CRITERIA			
BASE LOCATION LOCATED AT BOTTOM OF BASEPLATE/TOP OF FOOTING			
DESCRIPTION	DESIGN VALUES		
DEAD AND LIVE LOADS			
ROOF LIVE LOAD	20 PSF		
ROOF DEAD LOAD (SUPERIMPOSED ON FRAME)	5 PSF MAX		
ROOF PANEL DEAD LOAD	M=1.1 PSF, G = 1.2 PSF, S = 1.3 PSF		
COLLATERAL DEAD LOAD	M = 3.9 PSF, G = 3.8 PSF, S = 3.7 PSF		
ROOF LIVE LOAD			
ROOF LIVE LOAD, L_r	20 PSF		
ROOF SNOW LOAD			
GROUND SNOW LOAD, P_g	20 PSF		
RISK CATEGORY	II		
ROOF SNOW LOAD: SLOPED, P_s	20 PSF		
FOR SNOW LOAD CONDITIONS ONLY - SITE APPLICATION REVIEWER SHALL VERIFY THE STTRUCTURE SHALL BE LOCATED AT LEAST 20 FEET			
FROM ANY ADJACENT STRUCTURE FOR SNOW DRIFT.			
SNOW LOAD SLOPE FACTOR, C_s	1.0		
SNOW LOAD EXPOSURE FACTOR, C_e	1.0		
SNOW LOAD IMPORTANCE FACTOR, I_s	1.0		
THERMAL FACTOR, C_t	1.2		
LOWEST ANTICIPATED SERVICE TEMPERATURE	30°		
WIND DESIGN			
BASIC WIND SPEED (3 SECOND GUST), V_{ult}, V_{asd}	100 MPH, 78 MPH		
RISK CATEGORY	II		
EXPOSURE CATEGORY	C		
FACTORS: K_z, K_{zt}, K_d	0.85, 1.0, 0.85		
$q_h = 0.00256\ K_z\ K_{zt}\ K_d\ V^2$	18.50 PSF		
C_{NW} PER ASCE FIGURE 27.3-5 ROOF ANGLE 18.43 - CLEAR / OBSTRUCTED	CASE A (1.1 / -1.2) CASE B (0.01 / -0.69)		
C_{NL} PER ASCE FIGURE 27.3-5 ROOF ANGLE 18.43 - CLEAR / OBSTRUCTED	CASE A (-0.17 / -1.09) CASE B (-0.96 / -1.65)		
C_N PER ASCE FIGURE 27.3-7 PARALLEL TO RIDGE - CLEAR / OBSTRUCTED (< h)	CASE A (-0.8 / -1.2) CASE B (0.8 / 0.5)		
C_N PER ASCE FIGURE 27.3-7 PARALLEL TO RIDGE - CLEAR / OBSTRUCTED (> h, < 2h)	CASE A (-0.6 / -0.9) CASE B (0.5 / 0.5)		
C_N PER ASCE FIGURE 27.3-7 PARALLEL TO RIDGE - CLEAR / OBSTRUCTED (>2h)	CASE A (-0.3 / -0.6) CASE B (0.3 / 0.3)		
COMPONENTS & CLADDING - C_N (PRESSURE/SUCTION) CLEAR / OBSTRUCTED	ZONE 3 - (2.29 / -2.11) / (1.0 / -3.0)		
	ZONE 2 - (1.77 / -1.63) / (0.8 / -2.3)		
	ZONE 1 - (1.15 / -1.05) / (0.5 / -1.5)		
SEISMIC DESIGN			
LATERAL FORCE RESISTING SYSTEM	STEEL - ORDINARY CANTILEVER COLUMN		
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE		
SESIMIC IMORTANCE FACTOR, I_e	1.0		
SEISMIC SITE CLASS	D		
MCE_R SPECTRAL RESPONSE ACCELERATION @ 0.2 s, S_S	2.60		
MCE_R SPECTRAL RESPONSE ACCELERATION @ 0.2 s, S_1	0.90		
SHORT PERIOD SITE COEFFICIENT, F_a	1.20		
LONG PERIOD COEFFICIENT, F_v	1.70		
FUNDAMENTAL PERIOD OF THE STRUCTURE, T (WORST CASE FOR ALL STRUCTURES)	0.152 s		
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, S_{DS}	2.08 ☐		
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, S_{DS} - USED TO DETERMINE Cs (WITH CAP PER ASCE 7 12.8.1.3) SOIL PROPERTIES MAY NOT BE CLASSIFIED AS SITE CLASS E.	2.08 * 0.70 = 1.456 ☐		
DESIGN SPECTRAL RESPONSE ACCELERATION AT 1-s PERIODS, S_{D1}	1.02		
SEISMIC DESIGN CATEGORY	E		
SITE SPECFIC RESPONSE ANALYSIS NOT REQUIRED PER ASCE 7 11.4.8 EXCEPTION 2	T_s = 0.49 s	T < 1.5 * T_s	
RESPONSE MODIFICATION FACTOR, R	1.25		
OVERSTRENGTH FACTOR, Ω	1.25		
REDUNDANCY FACTOR, ρ	1.0		
HORIZONTAL OR VERTICAL IRREGULARITIES	NONE		
SEISMIC RESPONSE COEFFICIENT, C_s (20' WIDE, 30' WIDE, 40' WIDE)	1.16	1.00	1.00
DESIGN BASE SHEAR, V (20' WIDE, 30' WIDE, 40' WIDE) (WORST CASE)	10.62 PSF ☐	12.70 PSF ☐	12.85 PSF ☐
ALLOWABLE SOIL BEARING FOR FOUNDATIONS	VARIES - SEE FOUNDATION CHARTS		
FLOOD DESIGN - DESIGN IS ASSUMED TO NOT BE IN FLOOD HAZARD AREA			
IF PROJECT IS LOCATED IN A FLOOD ZONE OTHERTHAN ZONE X, A LETTER STAMPED & SIGNED FROM A SOILS ENGINEER IS REQUIRED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED.			

STRUCTURAL SEPARATION

ALL DEFLECTIONS SHOWN ALSO INCLUDE THE P-DELTA ROTATION PER IR PC-7

SEPARATION IS THE SUM OF 2 OF THESE SELECTED DEFLECCTION

DEFLECTIONS ARE FOR (1) STRUCTURE

SOIL CLASSES PER CBC TABLE 1806A.2

MAXIMUM DRIFT δ_{max} SIDE COLUMNS		Soil Class 5	Soil Class 4	Soil Class 3
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	[ ] 2.40	[ ] 2.55	[ ] 2.65
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	[ ] 2.15	[ ] 2.30	[ ] 2.40
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	[ ] 2.20	[ ] 2.20	[ ] 2.30
MINIMUM SEPARATION ($\delta_m = C_d\ \delta_{max}$) $C_d = 1.25$				
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	[ ] 3.00	[ ] 3.19	[ ] 3.31
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	[ ] 2.69	[ ] 2.88	[ ] 3.00
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	[ ] 2.75	[ ] 2.75	[ ] 2.88

MAXIMUM DRIFT δ_{max} END COLUMNS		Soil Class 5	Soil Class 4	Soil Class 3
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	[ ] 2.40	[ ] 2.55	[ ] 2.65
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	[ ] 2.15	[ ] 2.30	[ ] 2.40
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	[ ] 2.20	[ ] 2.20	[ ] 2.30
MINIMUM SEPARATION ($\delta_m = C_d\ \delta_{max}$) $C_d = 1.25$				
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	[ ] 3.00	[ ] 3.19	[ ] 3.31
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	[ ] 2.69	[ ] 2.88	[ ] 3.00
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	[ ] 2.75	[ ] 2.75	[ ] 2.88

INSTRUCTIONS FOR ARCHITECTS SUBMITTING THESE PRE-CHECKED DRAWINGS TO DSA:

BEFORE SUBMITTING THESE PRE-CHECKED DRAWINGS FOR YOUR PROJECT, FOLLOW THE STEPS BELOW TO PROPERLY DEFINE THE APPROVED OPTIONS:

STEP 1: SELECT FRAME DIMENSIONS FOR YOUR PROJECT
- –GABLE STRUCTURES UP TO 20' WIDE USE THE "RG 20" BASE FRAME
- –GABLE STRUCTURES UP TO 30' WIDE USE THE "RG 30" BASE FRAME
- –GABLE STRUCTURES UP TO 40' WIDE USE THE "RG 40" BASE FRAME
- –MAXIMUM WIDTH IS 40' (SEE "ARCHITECTURAL VIEWS" SHEET FOR REFERENCE)
- –THE 24', 44', 64', 84' AND 104' LENGTHS ARE SUGGESTED BECAUSE THEY ARE THE MOST COMMON (20' BAYS ARE THE MOST ECONOMICAL)
- –FRAME LENGTHS ASSUME 2' OVERHANGS (UNO BY ARCHITECT – 2' MAX DIMENSION)

STEP 1	FRAME DIMENSIONS					
		SUGGESTED				OTHER
	FRAME WIDTH	[ ] 20'	[X] 30'	[ ] 40'		[ ] (40' MAX)
	FRAME LENGTH	[ ] 44'	[ ] 64'	[ ] 84'	[ ] 104'	[X] 24' [ ] (NO MAX)

STEP 2: SELECT ROOF DECK FOR YOUR PROJECT
- –"M" REPRESENTS McELROY METAL "MULTI–RIB" ROOF PANEL
- –"G" REPRESENTS McELROY METAL "MEGA–RIB" ROOF PANEL
- –"S" REPRESENTS McELROY METAL "MEDALLION–LOK" 16" STANDING SEAM ROOF PANEL

STEP 2	ROOF PANEL		
	ROOF PANEL TYPE	[X] M [ ] G [ ] S	

STEP 3: IDENTIFY THE Ss ACCELERATION (g) FOR YOUR PROJECT
- –Ss VALUE DETERMINES THE REQUIRED SEISMIC DESIGN FORCES
- –Ss VAULE DEPENDS ON THE PROJECTS GEOGRAPHICAL LOCATION (VALUES RANGE FROM 0.00 TO 3.73)
  - –FIND Ss VALUES FOR YOUR PROJECT ON THE USGS WEBSITE (SEARCH INTERNET FOR "USGS SEISMIC DESIGN MAPS")

STEP 3	PROJECT SITE – Ss ACCELERATION (g)
	Ss (0.2-second period) = 0.63g

STEP 4: IDENTIFY THE Ss REGION FOR YOUR PROJECT
- –THE REGIONS ARE DEPENDANT ON THE Ss VALUE DETERMINED IN STEP 3
- –THE Ss REGION DICTATES THE MAXIMUM DEAD LOAD PERMITTED ON THE FRAME

STEP 4	Ss REGION			
			Ss REGIONS	MAX DEAD LOAD
	DESCRIPTION	X	0 < Ss <= 2.14	5 PSF
			2.14 < Ss <= 2.50	5 PSF
			2.50 < Ss <= 2.60	5 PSF

STEP 5: IDENTIFY THE ROOF DEAD LOAD FOR YOUR PROJECT
- – THE ROOF DECK DEAD LOAD WILL ALWAYS BE INCLUDED
- – THE COLLATERAL LOAD REPRESENTS ADDITIONAL LOAD THAT CAN BE SUPPORTED BY THE FRAME
- – BE SURE THE TOTAL ROOF DEAD LOAD FOR YOUR PROJECT IS LESS THAN OR EQUAL TO THE MAX DEAD LOAD SHOWN IN STEP 4 FOR YOUR Ss VALUE
- – Sds VALUE USED IN CALCULATION IS THE CAPPED Sds (SEE DESIGN CRITERIA)

STEP 5	TOTAL ROOF DEAD LOAD		
		DEAD LOAD	EXAMPLES
	ROOF DECK	__1.1_ PSF	M=1.1PSF; G=1.2PSF ;S=1.3PSF (SEE STEP 2)
	COLLATERAL	_____ PSF	LIGHTNING,FIRE SUPPRESSION,SOLAR PANELS,ETC
	TOTAL	__1.1_ PSF	ADD ROOF DECK AND COLLATERAL LOADS (MAX 5 PSF)

STEP 6: IDENTIFY THE FOUNDATION REQUIREMENTS FOR YOUR PROJECT
- –IDENTIFY SOIL CLASS FOR PROJECT SITE PER SITE SPECIFIC SOIL CONDITIONS
- –USE THIS TO SELECT CORRECT FOUNDATION SIZE ON FOUNDATION SHEET

AREA OVER 4000 SQFT REQUIRES A GEOHAZARD REPORT

STEP 6	FOUNDATION REQUIREMENTS		
	[X] GEOTECHNICAL REPORT NOT REQUIRED	[ ] GEOTECHNICAL REPORT REQUIRED	
	SOIL CLASS 5 (BEARING) 1500 PSF [ ]	SOIL CLASS 4 (BEARING) 2000 PSF [ ]	SOIL CLASS 3 (BEARING) 3000 PSF [ ]
	SOIL CLASS 5 (LATERAL BEARING) 200 PSF/FT	SOIL CLASS 5 (LATERAL BEARING) 300 PSF/FT	SOIL CLASS 5 (LATERAL BEARING) 400 PSF/FT
	COHESION 130 PSF	FRICTION COEFFICIENT 0.25	FRICTION COEFFICIENT 0.30

STEP 7: SELECT MISCELLANEOUS OPTIONS FOR YOUR PROJECT
- –MAXIMUM CLEAR HEIGHT IS 12'–0"; (SEE "ARCHITECTURAL VIEWS" SHEET FOR REFERENCE)
- –MARK UP PC DRAWINGS WITH SIZE AND LOCATION OF CUTOUTS BEFORE SUBMITTING TO DSA

STEP 7	MISCELLANEOUS		
		DESIGN OPTIONS	
	CLEAR HEIGHT	[ ] 8' [ ] 10' [X] 12'	[ ] ' (12' MAX)
	ELECTRICAL CUTOUTS	[ ] YES	[X] NO
	GUTTERS	[X] YES	[ ] NO

STEP 8: SELECT APPLICABLE SHEET INDEX FOR YOUR PROJECT
- –REFERENCE THE BASE FRAME (STEP 1) AND THE ROOF PANEL TYPE (STEP 2)
- –IDENTIFY THE APPLICABLE SHEET INDEX

STEP 8	SHEET INDEX									
	BASE FRAME	RG 20			RG 30			RG 40		
	ROOF PANEL TYPE	M	G	S	M	G	S	M	G	S
	SELECT ONE	[ ]	[ ]	[ ]	[X]	[ ]	[ ]	[ ]	[ ]	[ ]
	GENERAL NOTES	LS1.0	LS1.0	LS1.0	LS1.0	LS1.0	LS1.0	LS1.0	LS1.0	LS1.0
	FOUNDATION PLAN	LS2.0	LS2.0	LS2.0	LS3.0	LS3.0	LS3.0	LS4.0	LS4.0	LS4.0
	FRAMING PLAN	LS2.1	LS2.1	LS2.1	LS3.1	LS3.1	LS3.1	LS4.1	LS4.1	LS4.1
	FRAME CONNECTION DETAILS	LS2.1	LS2.1	LS2.1	LS3.1	LS3.1	LS3.1	LS4.1	LS4.1	LS4.1
	ROOFING LAYOUT & DETAILS	LS2.2	LS2.3	LS2.4	LS3.2	LS3.3	LS3.4	LS4.2	LS4.3	LS4.4
	MISC DESIGN OPTIONS	LS5.0	LS5.0	LS5.0	LS5.0	LS5.0	LS5.0	LS5.0	LS5.0	LS5.0
	DSA 103 EXAMPLE	LS1.2 LS1.3	LS1.2 LS1.3	LS1.2 LS1.3	LS1.2 LS1.3	LS1.2 LS1.3	LS1.2 LS1.3	LS1.2 LS1.3	LS1.2 LS1.3	LS1.2 LS1.3
	–				LS1.1					
	–									

STEP 9: INCLUDE APPLICABLE SHEETS WITH YOUR DSA SUBMITTAL
- –INCLUDE 'MISC DESIGN OPTIONS' SHEET FOR PROJECTS WITHOUT ELECTRICAL CUTOUTS OR GUTTERS

STEP 10: IDENTIFY PROJECT NAME AND LOCATION

PROJECT NAME:	SCHOOL DISTRICT:
Community Day School Modernization	Merced City School District

STEP 11: CROSS OUT EXAMPLE 103 FORMS & INCORPORATE REQUIRED SPECIAL INSPECTIONS 103 FORMS THAT ARE PROJECT SPECIFIC

SITE SPECIFIC PARAMETERS

INSTRUCTIONS: DESIGN PROFESSIONAL SHALL CHECK THE APPROPRIATE SELECTION BOXES BELOW AND ENTER THE DESIGN PARAMETERS APPLICABLE TO THE SPECIFIC PROJECT SITE

SNOW

pg = ______psf

Pf = ______psf

Ce = ______ psf

WIND

V = ______ mph < XX mph

kzt = ______ < 1

EXPOSURE: C☐ D☐

SELECT ONE

SIESMIC

☐ DESIGN BASED ON SITE CLASS D
NO GEOTECHNICAL INVESTIGATION REQUIRED

Ss = ______ Fa = 1.2

☐ DESIGN BASED ON SITE CLASS DETERMINED PER CHAPTER 20 OF ASCE 7–16
GEOTECHNICAL INVESTIGATION PROVIDED

SITE CLASS: C ☐ D☐ E☐

Ss = ______ Fa = ______PER ASCE 7–16 SUPPL 3, TABLE 11.4–1

☐ DESIGN BASED ON SITE SPECIFIC GROUND MOTION HAZARD ANALYSIS
PER CHAPTER 21 OF ASCE 7–16

SHORT–PERIOD DESIGN SPECTRAL RESPONSE PARAMETER, Sds, SHALL BE
AS SPECIFIED IN GEOTECHNICAL INVESTIGATION
AREA OVER 4000 SQFT REQUIRES A GEOHAZARD REPORT

CGS APPROVAL REQUIRED
NOT ELEGIBLE FOR OTC REVIEW

SITE CLASS: C☐ D☐ E☐

Sds = Fa Ss = _________

☐ SITE CLASS:C or D: 0.7 x Sds* = 0.7 x ________= _________ < X.XX

☐ SITE CLASS E: Sds = ______ < X.XX

Cs= X.XXX USED IN DESIGN

SIESMIC DESIGN CATEGORY D ☐ E ☐

*SITE SPECIFIC Sds VALUE BEFORE APPLYING REDUCTION
ALLOWED BY ASCE 7 SECTION 12.8.1.3

ABBREVIATIONS:

ACI	AMERICAN CONCRETE INSTITUTE	MPH	MILES PER HOUR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	M	MULTI–RIB ROOF PANEL (MCELROY)
ASM	ASSEMBLY (INTERNAL REFERENCE)	NTS	NOT TO SCALE
ASTM	AMERICAN SOCIETY FOR TESTING AND MAT'LS	NO	NUMBER
AWS	AMERICAN WELDING SOCIETY	OC	ON CENTER
CBC	CALIFORNIA BUILDING CODE	OSHA	OCCUPATIONAL HEALTH AND SAFETY ADMIN
CJP	COMPLETE JOINT PENETRATION	PCF	POUNDS PER CUBIC FOOT
CLR	CLEAR	PJ	PRETENSIONED JOINT
DEG	DEGREE	PLCS	PLACES
DIA	DIAMETER	PLT	PLATE
DIM	DIMENSION	PSF	POUNDS PER SQUARE FOOT
DSA	DIVISION OF THE STATE ARCHITECT	PSI	POUNDS PER SQUARE INCH
EQ	EQUAL	QTY	QUANTITY
FT	FEET	REF	REFERENCE
GA	GAGE	SQ	SQUARE
IN	INCHES	SS	STANDING SEAM ROOF PANEL (MCELROY)
KSI	KIPS PER SQUARE INCH	TYP	TYPICAL
MAX	MAXIMUM	UNO	UNLESS NOTED OTHERWISE
MIN	MINIMUM	USGS	U.S. GEOLOGICAL SURVEY
MISC	MISCELLANEOUS	W/	WITH

ARCHITECTURAL REQUIREMENTS

DESCRIPTION	DESIGN VAULES
TYPE OF CONSTRUCTION	II–B
OCCUPANCY CLASSIFICATION	A–3
NUMBER OF STORIES	1
FIRE SPRINKLER SYSTEM	NOT BY ICON/WEIGHT NOT INCLUDED IN DESIGN
MOST COMMON RG20 MIN/MAX SQ.FT (SEE STEP 1)	480/2,080
MOST COMMON RG30 MIN/MAX SQ.FT (SEE STEP 1)	720/3,120
MOST COMMON RG40 MIN/MAX SQ.FT (SEE STEP 1)	960/4,160

AREA OVER 4000 SQFT REQUIRES GEOHAZARD REPORT

ALLOWABLE AREA FOR II–B / A–3 IS 9500 SQ.FT

RELATED BUILDING CODES AND STANDARDS

TITLE 24 CODES:

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC)..................(PART 1, TITLE 24, CCR)
2022 CALIFORNIA BUILDING CODE (CBC),PART 2, TITLE 24 CCR
2022 CALIFORNIA ELECTRICAL CODE...................................(PART 3, TITLE 24, CCR)
2022 CALIFORNIA MECHANICAL CODE (CMC)......................(PART 4, TITLE 24, CCR)
2022 CALIFORNIA PLUMBING CODE (CPC)...........................(PART 5, TITLE 24, CCR)
2022 CALIFORNIA ENERGY CODE..(PART 6, TITLE 24, CCR)
2022 CALIFORNIA FIRE CODE (CFC) ....(PART 9, TITLE 24, CCR)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE......(PART 11, TITLE 24, CCR)
2022 CALIFORNIA REFERENCE STANDARDS CODE.............(PART 12, TITLE 24, CCR)
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS:
2022 CBC, CHAPTER 35
2022 CFC, CHAPTER 80

SCOPE OF WORK NARRATIVE

THESE DRAWINGS ILLUSTRATE THE FABRICATION AND INSTALLATION REQUIREMENTS FOR A FREE–STANDING PREFABRICATED STEEL SHADE STRUCTURE. THE ENTIRE STRUCTURAL SYSTEM IS COMPRISED OF HOLLOW STRUCTURAL STEEL MEMBERS SUPPORTED BY CONCRETE FOUNDATIONS. THE FLEXIBILITY INCLUDED HEREIN ALLOWS THE STRUCTURE TO COMPLY WITH A WIDE VARIETY OF PROJECT SITES AND LOADING REQUIREMENTS.

ICON STD	RG/DSA–PC
DRAWN BY	JD
DATE	3/21/2023
REV	
REV DATE	

JRMA
ARCHITECTS ENGINEERS
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MICHAEL D. LOCK
S4092
Aug 31, 2023

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122188 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/21/2023

GENERAL INFO

ICON Shelter Systems Inc
DISTINCTIVE STEEL SHELTERS
WWW.ICONSHELTERS.COM

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1455 LINCOLN AVE
HOLLAND MI, 49423

616.396.0919
800.748.0985
616.396.0944 FX

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

LS1.0

PRINTED ON :

GENERAL:

1. GENERAL NOTES AND TYPICAL DETAILS SHALL APPLY TO ALL PARTS OF THE JOB EXCEPT WHERE THEY MAY CONFLICT WITH DETAILS AND NOTES ON OTHER SHEETS. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED SUBJECT TO REVIEW BY THE STRUCTURAL ENGINEER FOR THIS PROJECT.
2. WORK SHALL CONFORM TO THE REQUIREMENTS, AS AMENDED TO DATE, OF THE LATEST ADOPTED EDITION OF THE CBC, C.A.C. TITLE 24, AND ALL STATE AND FEDERAL REGULATIONS.
3. OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR THIS PROJECT PRIOR TO PROCEEDING WITH ANY WORK INVOLVED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS, ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR THIS PROJECT AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
5. THESE CONSTRUCTION DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, INCLUDING, BUT NOT LIMITED TO, BRACING, TEMPORARY SUPPORTS, AND SHORING. OBSERVATION VISIT TO THE SITE BY FIELD REPRESENTATIVES OF THE ARCHITECT/ENGINEER SHALL NOT INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES. ANY SUPPORT SERVICES PERFORMED BY THE ARCHITECT/ENGINEER DURING THE CONSTRUCTION SHALL BE DISTINGUISHED FROM CONSTRUCTION AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ARCHITECT/ENGINEER, WHETHER OF MATERIAL OR WORK, ARE FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DOCUMENTS, BUT DO NOT GUARANTEE CONSTRUCTION.
6. ASTM DESIGNATIONS AND ALL STANDARDS REFER TO THE LATEST AMENDMENTS, EXCEPT AS AMENDED BY CBC CHAPTER 35.
7. CONFORM TO APPLICABLE CAL/OSHA CONSTRUCTION SAFETY REGULATIONS FOR ALL WORK PERFORMED DURING CONSTRUCTION. JOB SITE SAFETY IS STRICTLY THE RESPONSIBILITY OF THE CONTRACTOR AND NOT THE ARCHITECT/ENGINEER OR OWNER.
8. THE ENGINEER AND THEIR CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, HANDLING, REMOVAL OR DISPOSAL OF HAZARDOUS MATERIALS AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.
9. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, OR IF A CHANGE IN THE SCOPE OF WORK IS PROPOSED, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED CHANGE(S) SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
10. THE SCHOOL DISTRICT INSPECTOR ON RECORD SHALL INSPECT AND APPROVE THE ERECTED FRAME PRIOR TO ROOF INSTALLATION.
11. SEE REQUIREMENTS FOR LOCATION IN ANY FIRE HAZARD SEVERITY ZONE FOR WILDLAND URBAN INTERFACE AREAS (WUI) AS SPECIFIED IN THE APPLICABLE VERSION OF THE CALIFORNIA BUILDING CODE. PROVIDE PROTECTION AND DETAILS OF ALL AREAS COMPLYING WITH THE WUI REQUIREMENTS. SEE CBC CHAPTER 7A FOR REQUIREMENTS
12. LOCATING THIS STRUCTURE CLOSER THAN 20 FEET TO OTHER STRUCTURES MAY AFFECT THE ALLOWABLE AREA FOR THE EXISTING CONSTRUCTION PER THE APPLICABLE VERSION OF THE CALIFORNIA BUILDING CODE.
13. VIEWS AND DETAILS ARE NOT DRAWN TO SCALE (UNLESS NOTED OTHERWISE). DO NOT SCALE THESE DRAWINGS.

STRUCTURAL AND MISCELLANEOUS STEEL:

1. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUE OF STEEL CONSTRUCTION (AISC) SPECIFICATION MANUAL REFERENCED BY THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE.
2. PIPE SECTIONS SHALL CONFORM TO ASTM A53, Fy = 35 KSI, GRADE B OR A501 UNLESS NOTED OTHERWISE.
3. STRUCTURAL TUBING (HSS SHAPES) SHALL CONFORM TO ASTM A-500, GRADE B (OR C), Fy = 46 KSI. MIN.
4. IF MATERIAL AVAILABILITY IS LIMITED, MEMBER THICKNESS CAN BE INCREASED BEYOND WHAT IS SHOWN IN THESE DRAWINGS (MAXIMUM INCREASE OF 1/8").
5. ALL CHANNELS, ANGLES, AND MISC. STEEL SHALL CONFORM TO ASTM A-36, Fy = 36 KSI.
6. ALL PLATE STEEL SHALL CONFORM TO ASTM A-572, Fy= 50 KSI.
7. ALL COLD FORM STEEL SHALL CONFORM TO ASTM A-653, CS = TYPE B, Fy = 50 KSI Fu = 65 KSI
8. STRUCTURAL STEEL AND DECK SHALL BE IDENTIFIED FOR CONFORMITY PER CBC 2202A.1.
9. ALL ROOF DECKS SHALL HAVE KYNAR 500 METAL COATING.
10. ALL ROOF DECKS SHALL CONFORM TO ASTM A-792, Fy = 50 KSI.
11. ALL BASE CONNECTIONS ARE A PART OF THE LATERAL FORCE RESISTING SYSTEM

NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEERING RESPONSIBILITY

1. PER TITLE 24, PART 1, SECTION 4-316(e) OF THE CALIFORNIA CODE OF REGULATIONS, THIS NOTICE SHALL BE GIVEN TO DSA PRIOR TO THE APPROVAL OF PLANS AND SPECIFICATIONS.
2. FOR THE SITE SPECIFIC PROJECT, J. R. MILLER & ASSOCIATES IS NOT THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE.
3. FOR THE SITE SPECIFIC PROJECT, J.R. MILLER & ASSOCIATES' RESPONSIBILITY IS LIMITED TO THE PREPARATION OF THE PLANS AND SPECIFICATIONS FOR THE SHELTERS OF THIS PC ONLY.
4. STRUCTURAL OBSERVATION OF CONSTRUCTION IS SPECIFICALLY EXCLUDED FROM J.R. MILLER & ASSOCIATES' RESPONSIBILITY FOR THE SITE SPECIFIC PROJECT.
5. ALL CONSTRUCTION ACTIVITIES RELATED TO STRUCTURAL ENGINEERING SHALL BE DELEGATED TO A QUALIFIED ENGINEER BY THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE. THESE ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO, STRUCTURAL OBSERVATION OF CONSTRUCTION, REVIEW OF INSPECTION REPORTS, AND SIGNING OFF OF THE VERIFIED REPORT FOR COMPLETED WORK.
6. J.R. MILLER & ASSOCIATES WILL BE RESPONSIBLE FOR RESPONDING TO QUESTIONS PERTAINING TO THE PLANS AND SPECIFICATIONS FOR THE SHELTERS OF THIS PC WHICH ARISE DURING PLAN REVIEW AND CONSTRUCTION.

CONSTRUCTION NOTES

1. A DSA-CERTIFIED CLASS 3 (MINIMUM) PROJECT INSPECTOR IS REQUIRED FOR THIS PROJECT.
2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
3. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF WORK, THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
4. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
5. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS ARE THAT ALL THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION 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 DOCUMENT (CCD), 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)
6. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES

WELDING:

1. ALL WELDING SHALL COMPLY WITH AWS D1.1 SPECIFICATIONS AND SHALL BE DONE BY AWS QUALIFIED WELDERS CERTIFIED FOR THE TYPE OF WELDING TO BE PERFORMED AS REQUIRED BY DSA.
2. ALL WELDING SHALL BE DONE BY GAS METAL ARC PROCESS WITH E70XX ELECTRODES. FLUX CORE ARC WELD SHALL CONFORM TO CHARPY NOTCH TOUGHNESS RATING OF 20 ft-lb @ (0° F).
3. ALL WELDING SHALL BE DONE IN THE SHOP WITH REQUIRED INSPECTION, PRE-APPROVED BY DSA, TO ENSURE PROPER MATERIAL ID AND WELDING.
4. WELD FILLER METAL MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION OF COMPLIANCE WITH CODE AND SPECIFICATIONS.

BOLTING:

1. ALL BOLTS SHOWN ON THESE DRAWINGS ARE HOT DIPPED GALVANIZED ASTM F3125 GRADE A325 HIGH STRENGTH BOLTS (UNO), WITH THE NUTS CONFORMING TO HOT DIPPED GALVANIZED ASTM A-563 GRADE DH.
2. HIGH STRENGTH BOLTS SHALL BE VERIFIED AND INSPECTED PER CBC 1705A2.1.
3. BEFORE ERECTING THE FRAME, VERIFY ALL BOLTS AND NUTS ARE CLEAN OF DEBRIS AND BURRS – INCLUDING THE HARDWARE ALREADY FASTENED INSIDE THE MEMBERS. CHASING SOME OF THE BOLTS AND NUTS MAY BE REQUIRED.
4. HARDENED STEEL WASHERS SHALL CONFORM TO ASTM F-436.
5. THE BOLTING INSTALLATION REQUIREMENTS OUTLINED BELOW ARE CRITICAL TO THE STRUCTURE'S DESIGN AND PERFORMANCE. THE INSTALLER IS REQUIRED TO COORDINATE THIS PHASE OF CONSTRUCTION WITH THE SPECIAL BOLTING INSPECTOR AND THE INSPECTOR OF RECORD PRIOR TO THE ERECTION OF THE FRAME BE INSTALLED AND INSPECTED PER THE APPLICABLE VERSION OF AISC'S USING HIGH-STRENGTH BOLTS", CBC 1705A.2.1; AISC 341-16 J7; AISC 360-16 N5.6.

    A)PRETENSIONED JOINTS MUST BE INSTALLED AND INSPECTED TO MEET ONE OF THE FOLLOWING REQUIREMENTS:
    1. TURN-OF-NUT PRETENSIONING: PER SECTION 8.2.1 OF THE *SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS* , WASHERS ARE NOT REQUIRED FOR THIS METHOD, THE NUT OR HEAD SHALL BE ROTATED AS SPECIFIED IN TABLE 8.2. THE PART NOT TURNED SHALL BE PREVENTED FROM ROTATING.
    2. CALIBRATED WRENCH: PER THE *SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS,* WASHERS ARE REQUIRED (NOT SUPPLIED BY ICON) THESE SHALL BE INSTALLED PER THE INSTALLATION TORQUE DETERMINED IN THE PRE-INSTALLATION VERIFICATION OF THE FASTENER ASSEMBLY PER SECTION 7. THE PART NOT TURNED SHALL BE PREVENTED FROM ROTATING.
    3. IDENTIFIED ON THE FRAME CONNECTION DETAILS WITH "PT REQUIRED"

    B) ALL OTHER JOINTS MUST BE INSTALLED AND INSPECTED TO MEET THE REQUIREMENTS OF THE SNUG-TIGHTENED JOINTS. SNUG TIGHT CONDITION EXISTS WHEN ALL PLIES IN A CONNECTION HAVE BEEN PULLED INTO FIRM CONTACT BY THE BOLTS IN THE JOINT AND ALL OF THE BOLTS IN THE JOINT HAVE BEEN TIGHTENED SUFFICIENTLY TO PREVENT REMOVAL OF THE NUTS WITHOUT THE USE OF A WRENCH.

FOUNDATIONS:

1. ALLOWABLE SOIL PRESSURES ASSUME CLASS 5 SOIL CLASSIFICATION PER CBC TABLE 1806A, UNLESS NOTED OTHERWISE. PASSIVE PRESSURE IS ASSUMED TO START 12" BELOW TOP OF FOOTING.
2. PER CBC SECTION 1803A.2, GEOTECHNICAL REPORTS ARE NOT REQUIRED FOR ONE-STORY LIGHT-STEEL FRAME BUILDINGS OF TYPE II CONSTRUCTION AND 4,000 SQUARE FOOT OR LESS IN FLOOR AREA AND NOT LOCATED WITHIN EARTHQUAKE FAULT ZONESOR SIESMIC HAZARD ZONES AS SHOWN ON THE MOST RECENT MAPS PUBLISHED BY THE CGS. ALLOWABLE FOUNDATION AND LATERAL SOIL PRESSURE VALUES MAY BE DETERMINED FROM TABLE 1806A.2.
3. FILL AND BACKFILL SHALL BE COMPACTED TO 95% OF MAX. DENSITY IN ACCORDANCE WITH ASTM TEST METHOD D-1557 OR AS RECOMMENDED BY THE GEO-TECH ENGINEER. FLOODING NOT PERMITTED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, ETC. NECESSARY TO SUPPORT CUT AND/OR FILL BANKS DURING EXCAVATION, AND FORMING AND PLACEMENT OF CONCRETE.
5. MINIMUM SETBACK FROM TOE OF SLOPE ON AN ASCENDING SLOPE SHALL BE 15 FEET AND MINIMUM SETBACK FROM TOE OF SLOPE ON A DESCENDING SLOPE SHALL BE 40 FEET
6. PER CBC SECTION 1803A.6, GEOHAZARD REPORTS ARE NOT REQUIRED FOR ONE-STORY LIGHT-STEEL FRAME BUILDINGS OF TYPE II CONSTRUCTION AND 4,000 SQUARE FOOT OR LESS IN FLOOR AREA AND NOT LOCATED WITHIN EARTHQUAKE FAULT ZONESOR SIESMIC HAZARD ZONES AS SHOWN ON THE MOST RECENT MAPS PUBLISHED BY THE CGS.
7. GEOHAZRD REPORTS ARE TO COMPLY WITH DSA IR A-4 PER IR-7 SECTION 1.8
8. SITE SPECIFIC GEOTECHNICAL REPORT IS REQUIRED AT THE TIME OF SITE APPLICATION IF USING OTHER THAN CLASS 5 SOIL, PER DSA IR PC-7
9. LATERAL BEARING HAS BEEN INCREASED PER CBC 1806A.3.4 FOR THE 1/2" DEFLECTION & HAS BEEN DESIGNED FOR P-DELTA EFFECTS. NO 1/3 INCREASE HAS BEEN APPLIED.
10. MINIMUM CLEARANCE BETWEEN PIERS SHALL BE 8'-0".

CONCRETE:

1. MIX DESIGN REQUIREMENTS: (NORMAL WEIGHT CONCRETE)

STRENGTH Pc (28 DAYS)	W/C RATIO (NON-AIR ENTRAINED)	W/C RATIO (AIR ENTRAINED)	SLUMP (±1")	UNIT WEIGHT (NORMAL WEIGHT)
5000 PSI	0.44	0.35	3"	150 PCF

2. CONCRETE MIX DESIGN PARAMETERS ARE GOOD FOR EXPOSURE CATEGORIES F0, F1 & F2. THE AIR ENTRAINMENT FOR THESE CATEGORIES SHALL BE AS FOLLOWS: F0-0, F1-4.5, F2-6
3. CHANGES TO THE MIX DESIGN MUST BE APPROVED BY THE ENGINEER OR ARCHITECT OF RECORD AND DSA.
4. AGGREGATES SHALL CONFORM TO THE ASTM C-33 WITH PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN 0.005. MAX AGGREGATE SIZE = 1".
5. CEMENT SHALL CONFORM TO ASTM C-150 (TYPE V) UNLESS NOTED OTHERWISE ON THE DRAWINGS.
6. CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF FIVE DAYS AFTER PLACEMENT. ALTERNATE METHODS WILL BE APPROVED IF SATISFACTORY PERFORMANCE CAN BE ASSURED.
7. CONCRETE SHALL NOT FREE FALL MORE THAN FIVE FEET.
8. CONCRETE DURABILITY SHALL BE PER CBC 1904A.1 ACI 318-19, CHAPTER 19.
9. CONCRETE SHALL BE TESTED PER CBC 1903A, TABLE 1705A.3. AND ACI 318-19, SECTION 26.12.
10. NO ADMIXTURE SHALL CONTAIN CALCIUM CHLORIDE.

REINFORCING STEEL:

1. REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A-615, AS FOLLOWS:
    - GR 60: (#4 BARS AND LARGER)
    - GR 40: (#3 BARS)
2. DETAILING, FABRICATION, AND ERECTION OF REINFORCING BARS SHALL CONFORM TO THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE STRUCTURES."
3. MIN. COVER FOR CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:
    - A. CAST AGAINST EARTH ……………………………………………3"
    - B. CAST AGAINST FORM BELOW GRADE ………………………2"
    - C. FORMED SLABS (#11 BAR & SMALLER)……………………3/4"
    - D. SLABS ON GRADE (FROM TOP OF SLAB)…………………1"
4. BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BOND. BENDS SHALL BE MADE COLD.
5. REINFORCING SHALL BE LAP SPLICED PER ACI 318-19, SECTION 25.5.
6. PRIOR TO PLACING OF CONCRETE, REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE WELL SECURED IN POSITION.
7. WELDING OF REINFORCING IS NOT ALLOWED.
8. REINFORCING STEEL SHALL BE INSPECTED PER CBC 1705A.3.

POWDER-COAT FINISH SYSTEM:

ALL BUILDINGS THAT HAVE A POWDER-COATED FINISH SHALL MEET THE FOLLOWING SPECIFICATIONS:

1. THE STEEL FRAME (HSS SECTIONS, COLD FORMED & PLATE STEEL) SHALL BE SHOT-BLASTED TO A NEAR WHITE CONDITION PER SSPC-10 SPECIFICATIONS.
2. THE STEEL SHALL BE WASHED IN A ZINC PHOSPHATE IN AN MINIMUM THREE STAGE ELECTRO DEPOSITION PRE-TREATEMENT PROCESS.
3. IMMEDIATELY FOLLOWING PRE-TREATMENT THE STEEL SHALL BE TOTALLY COATED IN AN EPOXY PRIMER TO A UNIFORM THICKNESS OF A MINIMUM OF 0.7 TO 0.9 MILS. THE E-COATING SHALL PROVIDE A MINIMUM OF 1000 HOURS OF SALT SPRAY CORROSION PROTECTION TO THE STEEL.
4. THE STEEL SHALL THEN HAVE A TGIC POLYESTER COLOR COAT APPLIED OVER THE E-COATED SURFACE.
5. THE FINISH THICKNESS OF THESE APPLICATIONS SHALL BE A MINIMUM OF 8 TO 12 MILS.
6. ALL CARBON STEEL MEMBERS (COLUMNS, BEAMS, PLATES & COLD FORMED STEEL ETC.) NOT POWDER-COATED SHALL BE PAINTED WITH PRIME COAT PER THE "AISC CODE OF STANDARD PRACTICE" AND THE "AISC SPECIFICATION SECTION M3"(UNLESS NOTED OTHERWISE).

ICON STD	RG/DSA-PC
DRAWN BY	JD
DATE	3/21/2023
REV	
REV DATE	

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Aug 31, 2023

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122188 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/21/2023

GENERAL INFO

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PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

LS1.1

PRINTED ON :

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

Application Number: 04-122188
DSA File Number:
School Name: PC Update
Increment Number:
School District: PC Update
Date Created: 2023-04-19 08:36:32

2022 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 (2022 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	GE (Geotechnical Engineer) – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative. LOR (Laboratory of Record) – 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.
Periodic – Indicates that a periodic special inspection is required	PI (Project Inspector) – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.
Test – Indicates that a test is required	SI (Special Inspection) – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

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Geotechnical Reports: Project has a geotechnical report, or CDs indicate soils special inspection is required by GE

S1. GENERAL:

	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.	Periodic	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) form for exemptions.)

S2. SOIL COMPACTION AND FILL:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Perform classification and testing of fill materials.	Test	LOR*	* Under the supervision of the geotechnical engineer.
☑	b. Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (Refer to specific items identified in the Appendix (end of this form) form for exemptions where soils SI and testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil SI and test reporting requirements for the exempt items.)
☑	c. Compaction testing.	Test	LOR*	* Under the supervision of the geotechnical engineer. (Refer to specific items identified in the Appendix (end of this form) for exemptions where soils testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil test reporting requirements for the exempt items.)

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

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S3. DRIVEN DEEP FOUNDATIONS (PILES):

	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.

S4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):

	Test or Special Inspection	Type	Performed By	Code References and Note
☐	a. Inspect drilling operations and maintain complete and accurate records for each pier.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

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	Test or Special Inspection	Type	Performed By	Code References and Note
☐	b. Verify pier locations, diameters, plumbness, bell diameters (if applicable), lengths and embedment into bedrock (if applicable); record concrete or grout volumes.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)
☐	c. Confirm adequate end strata bearing capacity.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)
☐	d. Concrete piers.	Provide tests and inspections per CONCRETE section below.		

S5. 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 S2 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 18-2.
☐	d. Concrete retaining walls.	Provide tests and inspections per CONCRETE section below.		
☐	e. Masonry retaining walls.	Provide tests and inspections per MASONRY section below.		

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number: 04-122188
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S6. OTHER SOILS:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	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 (California Geological Survey) 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 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

Application Number: 04-122188
DSA File Number:
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School District: PC Update
Date Created: 2023-04-19 08:36:32

C1. CAST-IN-PLACE CONCRETE

	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify use of required design mix.	Periodic	SI	Table 1705A.3 Item 5, 1910A.1.
☑	b. Identifiy, sample, and test reinforcing steel.	Test	LOR	1910A.2; ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) 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 318-19 Sections 26.5 & 26.12.
☑	d. Test concrete (f'_c).	Test	LOR	1905A.1.17; ACI 318-19 Section 26.12.
☐	e. Batch plant inspection:	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 IR 17-13. (See Appendix (end of this form) for exemptions.)
☐	f. Welding of reinforcing steel.	Provide special inspection per STEEL, Category S/A4(d) & (e) and/or S/A5(g) & (h) below.		

C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1):

	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.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

Application Number: 04-122188
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	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	c. Verify in-situ concrete strength prior to stressing of post-tensioning tendons.	Periodic	SI	Table 1705A.3 Item 13. 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

C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1):

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect fabrication of precast concrete members.	Continuous	SI	ACI 318-19 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.
☐	c. For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category D, E or F, inspect such connections and reinforcement in the field for: 1. Installation of the embedded parts 2. Completion of the continuity of reinforcement across joints. 3. Completion of connections in the field.	Continuous	SI	Table 1705A.3; ACI 318-19 Section 26.13.1.3; ACI 550.5
☐	d. Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5.	Periodic	SI	Table 1705A.3; ACI 318-19 Section 26.13.1.3; ACI 550.5

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Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

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C4. SHOTCRETE (IN ADDITION TO SECTION C1):

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect shotcrete placement for proper application techniques.	Continuous	SI	1705A.3.9, Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3. See ACI 506.2-13 Section 3.4, ACI 506R-16.
☐	b. Sample and test shotcrete (f'_c).	Test	LOR	1908A.2, 1705A.3.9

C5. 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 (end of this form) 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 (end of this form) for exemptions.)

C6. OTHER CONCRETE:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a.			

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMNINUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES

	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. 2202A.1; AISI S100-20 Section A3.1 & A3.2, AISI S240-20 Section A3 & A5, AISI S220-20 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.
☑	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).
☐	e. Buckling restrained braces.	Test	LOR	Testing and special inspections in accordance with IR 22-4.

S/A2. HIGH-STRENGTH BOLTS:

	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.
☑	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.
☑	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.

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REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/21/2023

DSA 103

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	S/A3. WELDING:			
	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	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.
☑	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.

	S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):			
	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 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):			
	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.
☐	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 S240-20 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.

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A6. NONDESTRUCTIVE TESTING:			
	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; AWS D1.1, AWS D1.8; DSA IR 17-2.
☐	b. Magnetic Particle	Test	LOR	1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
☐	c.	Test	LOR	

	S/A7. STEEL JOISTS AND TRUSSES:			
	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.

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A8. SPRAYED FIRE-RESISTANT MATERIALS:			
	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.15, 1705A.1, 1705A.2, 1705A.3, 1705A.4.
☐	b. Test density.	Test	LOR	1705A.15.1, 1705A.15.5, ASTM E736
☐	c. Bond strength adhesion/cohesion.	Test	LOR	1705A.15.1, 1705A.15.4, ASTM E605

	S/A9. 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.

	S/A10. STORAGE RACK SYSTEMS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Materials used, to verify compliance with one or more of the material test reports in accordance with the approved construction documents.	Periodic	SI	Table 1705A.13.7
☐	b. Fabricated storage rack elements.	Periodic	SI	1704A.2.5; Table 1705A.13.7

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	c. Storage rack anchorage installation.	Periodic	SI	ANSI/MH16.1 Section 7.3.2; Table 1705A.13.7
☐	d. Completed storage rack system to indicate compliance with the approved construction documents.	Periodic	SI*	Table 1705A.13.7; * May be preformed by the project inspector when specifically approved by DSA.

	S/A11. Other Steel			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a.			

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	X1. OTHER:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Load test for identified product(s):	Test	LOR	1709A.2, 1709A.3. Testing is not required for: 1) a product with a valid evaluation service report per DSA IR A-5, or 2) a product that can be justified by structural calculation.
☐	b. Installation torque for non-HS bolts	Continuous	SI*	Applicable to communication towers identified as Essential Service Facility Projects (ESFP). Calibrated wrench use required, verified by SI during installation. DSA Policy PL 18-01: Communication Towers, Poles and Buildings Utilized by State Agencies for Essential Services Communications.*EXCEPTION: Non-ESFP may use PI without need for notification to DSA.
☐	c.			

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number: 04-122188	School Name: PC Update	School District: PC Update
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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 with a design based on minimum allowable pressures per CBC Table 1806A.2 and without a 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" in the Appendix below) 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" in the Appendix below
☐	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.
☐	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. 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.

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

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	CONCRETE/MASONRY:
☐	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 fences, gates with maximum leaf span of 10', and gates with a maximum rolling section of 10' all having an apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates/fences 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 S/A3, S/A4 and/or S/A5 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 S/A3, S/A4 and/or S/A5 of listing above).
☐	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 sections S/A3, S/A4 and/or S/A5 located in the Steel/Aluminum category of listing above).
☐	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.

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Application Number: 04-122188	School Name: PC Update	School District: PC Update
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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.

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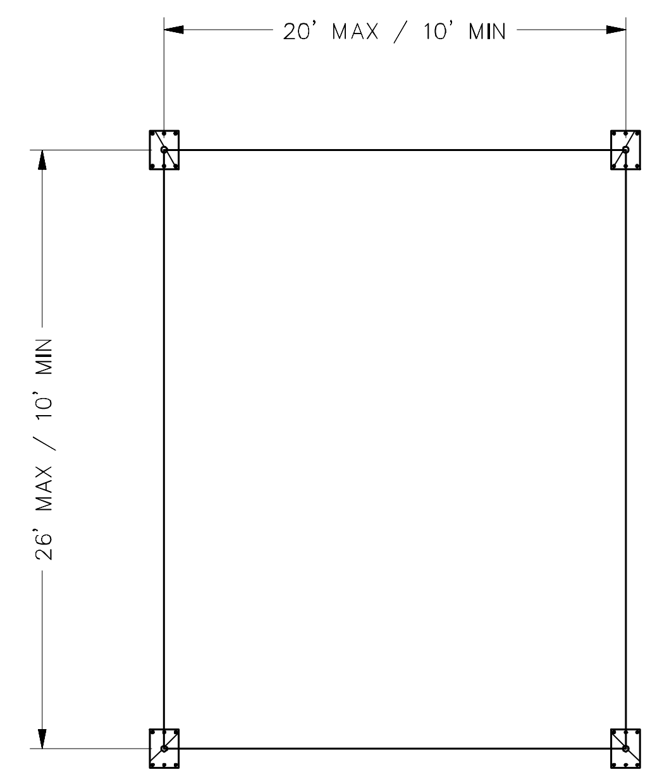
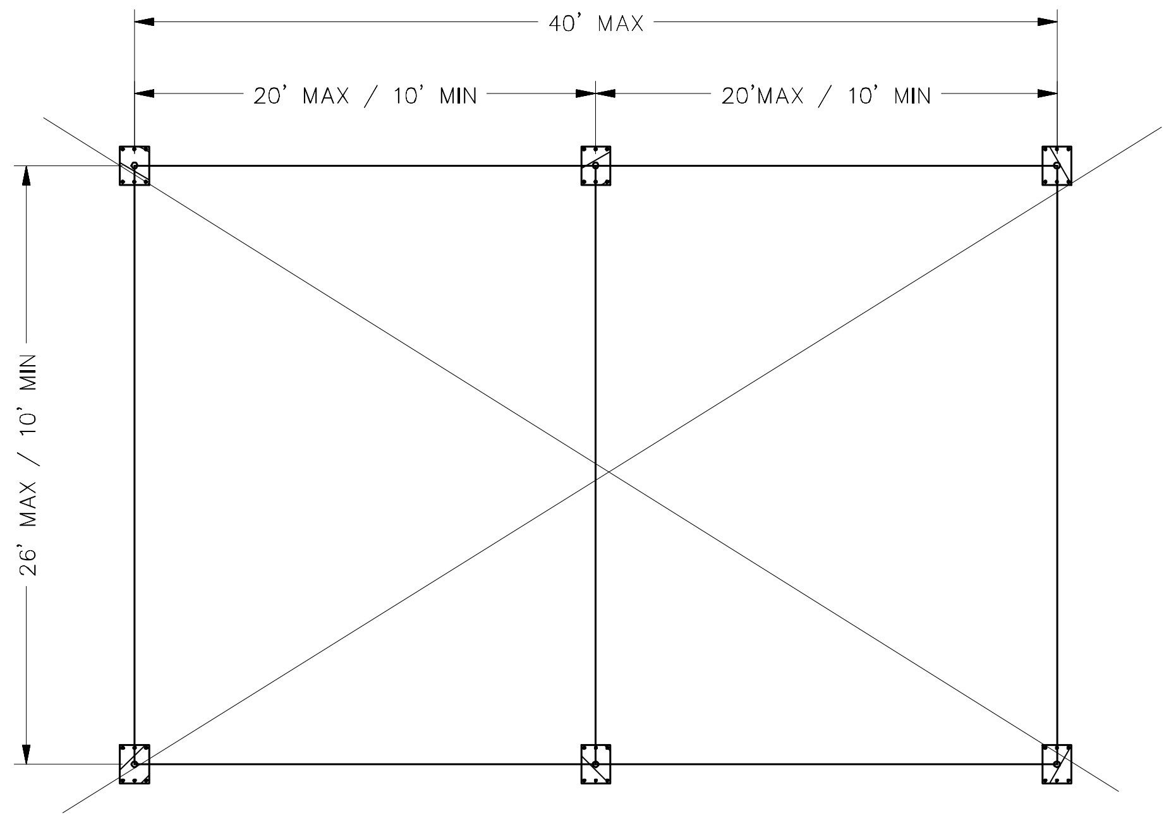
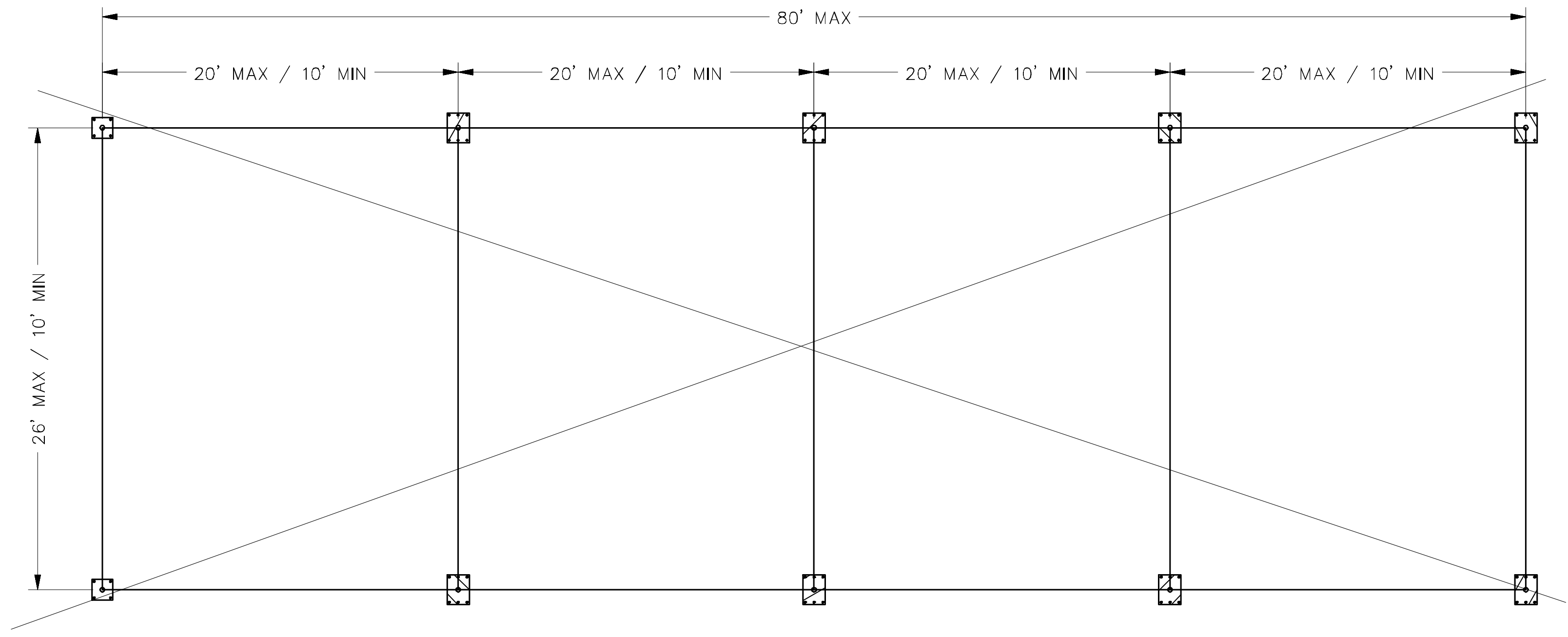
****The footing layouts below should not be used for construction without first reviewing the project site plan and project specific install instructions from the manufacturer****



RG30X24 COLUMN LAYOUT
(1 BAY)

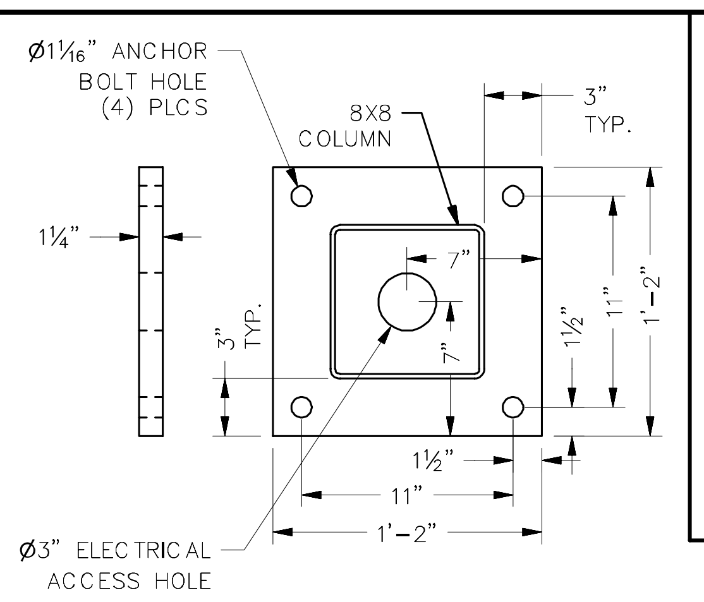


RG30X44 COLUMN LAYOUT
(2 BAYS)



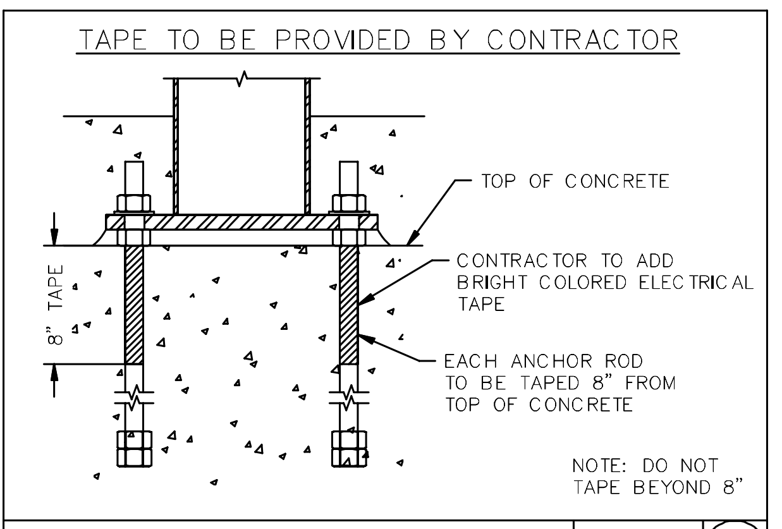
RG30X84 COLUMN LAYOUT
(4 BAYS)

BASE PLATE LOCATION		
	DETAIL A	DETAIL B
~~8'~~	~~BP1~~	~~BP3~~
~~10'~~	~~BP1~~	~~BP3~~
12'	BP2	BP3



8X8 COLUMN BASE PLATE DETAIL

BP1


TAPE TO BE PROVIDED BY CONTRACTOR
TOP OF CONCRETE
CONTRACTOR TO ADD BRIGHT COLORED ELECTRICAL TAPE
EACH ANCHOR ROD TO BE TAPED 8" FROM TOP OF CONCRETE
NOTE: DO NOT TAPE BEYOND 8"
8" TAPE

ANCHOR ROD TAPE REQUIREMENT

SCALE: N.T.S.

C2

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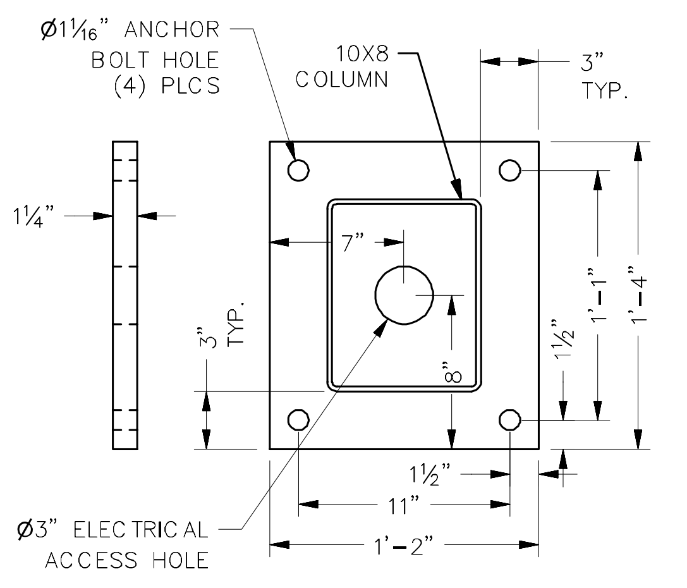

10X8 COLUMN BASE PLATE DETAIL

BP2

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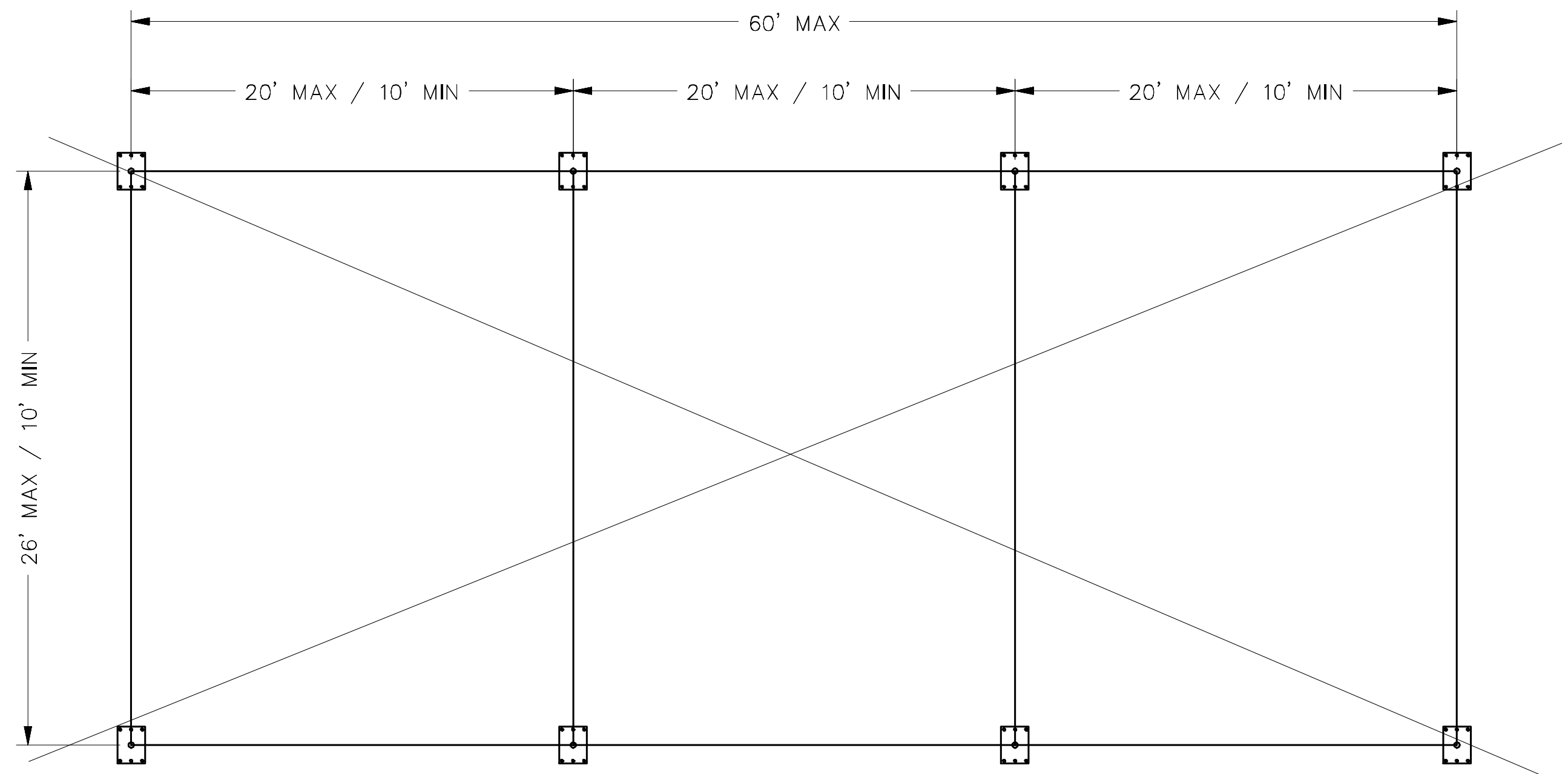
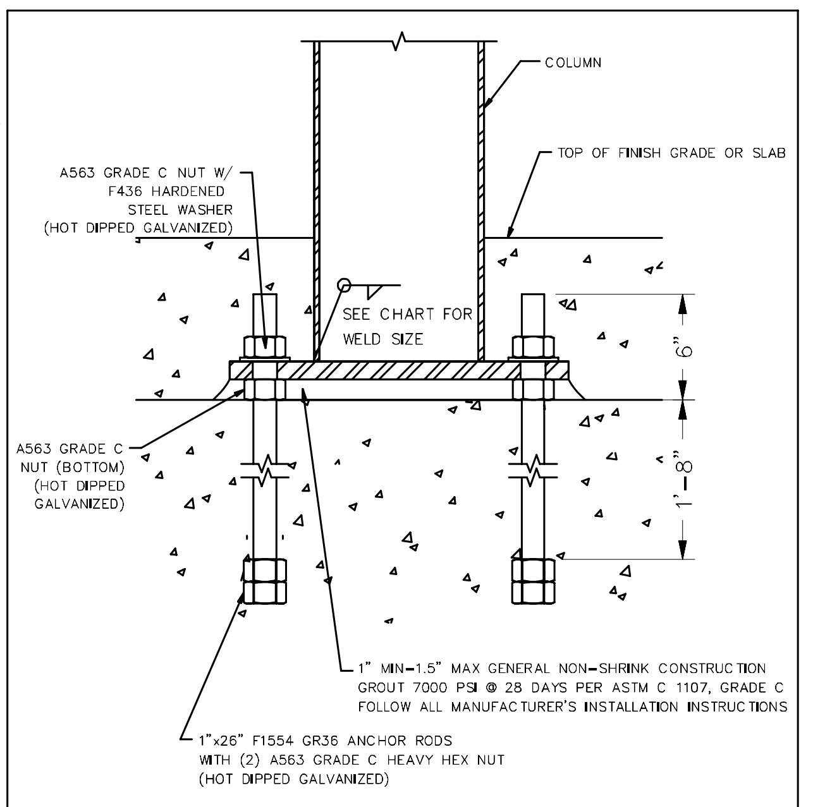
MICHAEL D. LOCK S4092 STRUCTURAL
Aug 31, 2023



RG30X64 COLUMN LAYOUT
(3 BAYS)


COLUMN
TOP OF FINISH GRADE OR SLAB
A563 GRADE C NUT W/ F436 HARDENED STEEL WASHER (HOT DIPPED GALVANIZED)
SEE CHART FOR WELD SIZE
6"
1'-8"
A563 GRADE C NUT (BOTTOM) (HOT DIPPED GALVANIZED)
1" MIN-1.5" MAX GENERAL NON-SHRINK CONSTRUCTION GROUT 7000 PSI @ 28 DAYS PER ASTM C 1107, GRADE C FOLLOW ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS
1"x26" F1554 GR36 ANCHOR RODS WITH (2) A563 GRADE C HEAVY HEX NUT (HOT DIPPED GALVANIZED)

NOTES:

COLUMN BASE PLATES ARE TO HAVE DOUBLE NUTS. PLACE ONE NUT UNDER THE PLATE AND ONE NUT ON TOP WITH A WASHER UNDER THE NUT.

THE BOTTOM NUT CAN BE USED AS A LEVELING NUT.

AFTER COLUMN IS SET AND LEVELED AND THE NUTS HAVE BEEN TIGHTENED THE COLUMN MUST HAVE NON-SHRINK GROUT PLACED UNDER THE BASE PLATE BEFORE COVERING THE BASE WITH CONCRETE.

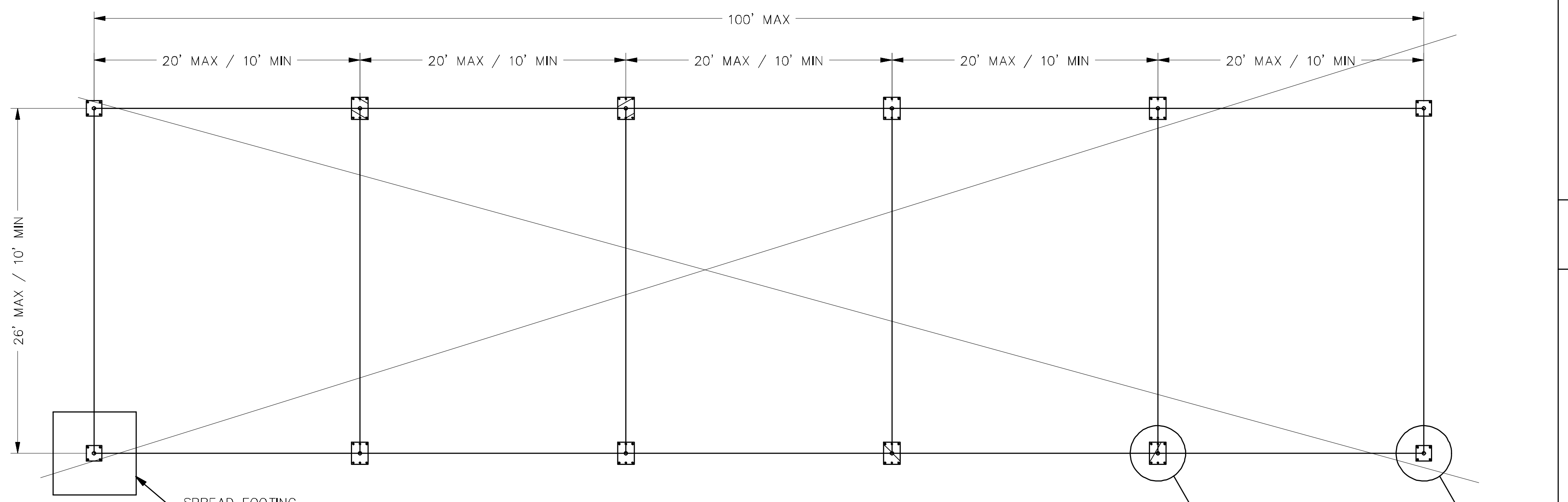
REFER TO FOOTING DETAIL FOR ROD/NUT LOCATIONS AND SIZE.

FOUNDATION ANCHORS ARE TO BE UNTORQUED.

COLUMN BASE CONNECTION DETAIL

SCALE: N.T.S.

C1

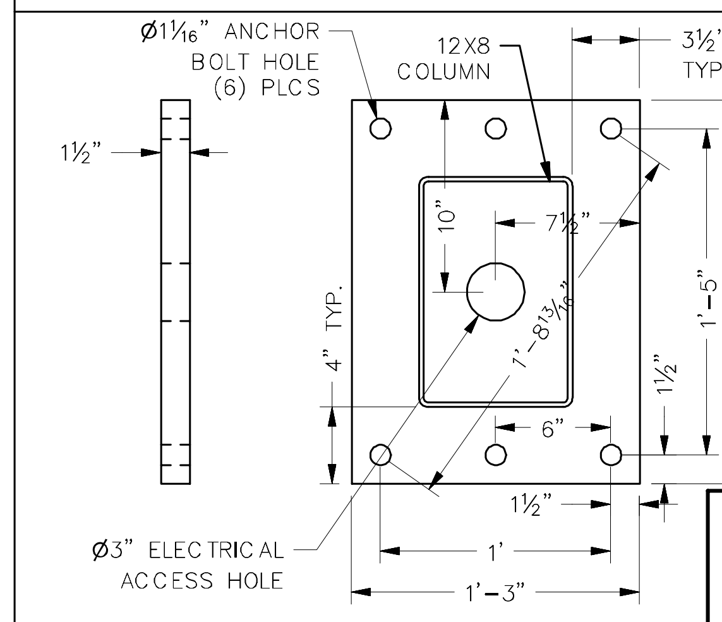


RG30X104 COLUMN LAYOUT
(5 BAYS)

ANCHOR ROD DETAIL
1.HEAT TREATED
2.MAX CARBON CONTENT-27%
3.MAX MANGANESE CONTENT
0.6 TO 0.9%

NOTES:
COLUMN SIZE AND LOCATION WILL VARY DEPENDING ON MODEL TYPE ORDERED, PLEASE REFER TO JOB SPECIFIC BILL OF MATERIALS AND INSTALLATION MANUAL FOR CORRECT PLACEMENT AND SIZE.

WHERE CONCRETE SLAB SPECIFIED PORTLAND CEMENT CONCRETE PAVING SHALL HAVE A MEDIUM SALTED (MEDIUM BROOM) FINISH ON ALL SURFACES SLOPED LESS THAN 6% AND SLIP RESISTANT (HEAVY BROOM FINISH) ON ALL SURFACES SLOPED GREATER THAN 6% CBC SECTION 1133B.7.1



12X8 COLUMN BASE PLATE DETAIL

BP3

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122188 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/21/2023

30' WIDE RECTANGULAR GABLE

ALL ANCHOR RODS SHALL BE 1"X26" U.N.O.

RG30 - PIER

8' height - End Columns				8' height - End Columns				8' height - End Columns			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size
30	122	8	6	30	104	8	6	30	94	8	6
8' height - Side Columns				8' height - SIde Columns				8' height - Side Columns			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size
48	138	12	8	36	132	8	8	36	118	8	8
8' Eave - 1500 psf [ ]				8' Eave - 2000 psf [ ]				8' Eave - 3000 psf [ ]			

8' End Columns			
Tension Rebar Dimensions			Weld
X (in)	Y (in)	Rebar Size	Fillet Weld "W"
11	47	6	5/16
8' Side Columns			
Tension Rebar Dimensions			Weld
X (in)	Y (in)	Rebar Size	Fillet Weld "W"
17	65	8	3/8
8' Eave - Rebar & Weld			

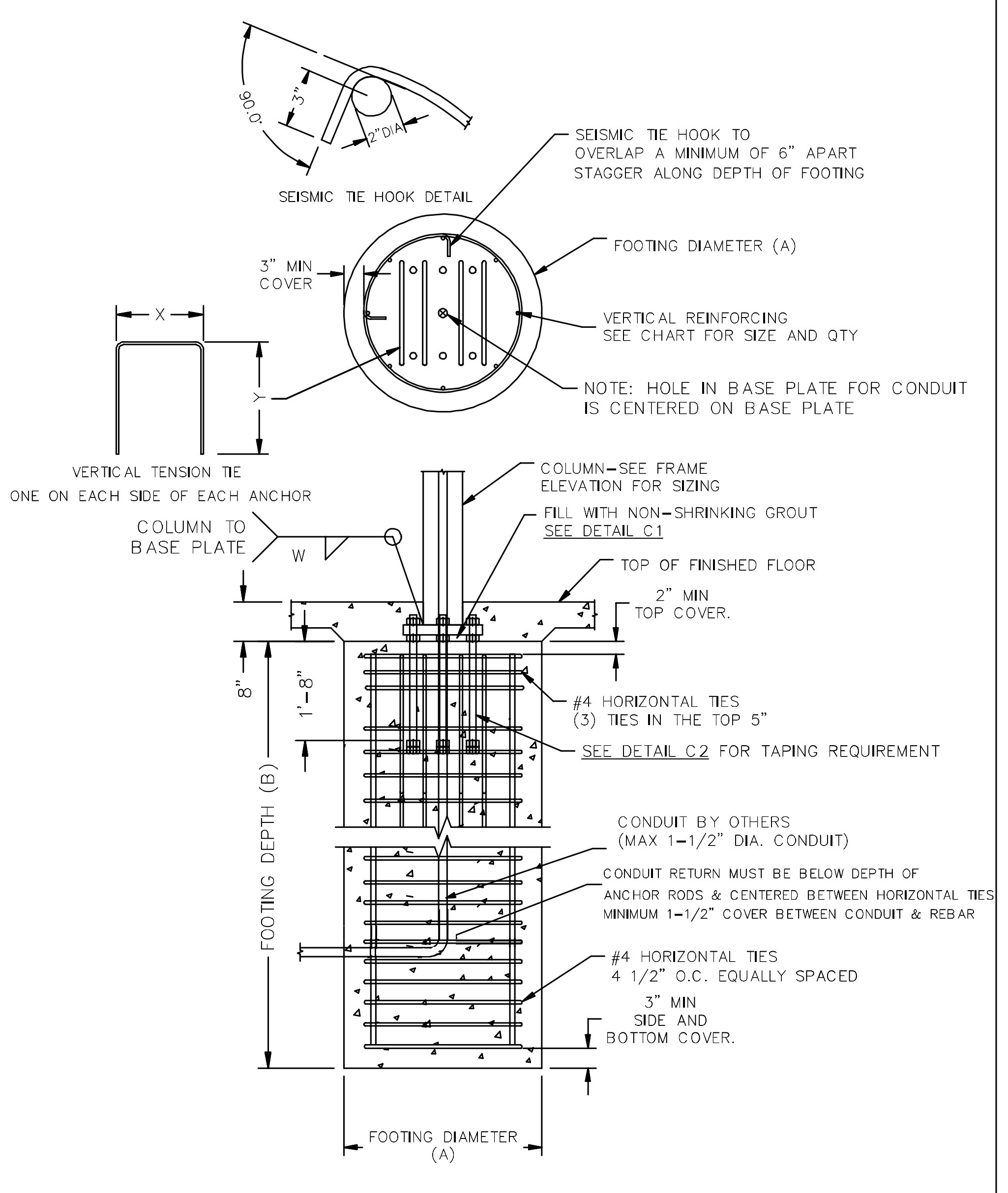
10' height - End Columns				10' height - End Columns				10' height - End Columns			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size
30	116	8	6	30	100	8	6	30	90	8	6
10' height - Side Columns				10' height - SIde Columns				10' height - Side Columns			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size
42	138	10	8	36	124	8	8	36	112	8	8
10' Eave - 1500 psf [ ]				10' Eave - 2000 psf [ ]				10' Eave - 3000 psf [ ]			

10' End Columns			
Tension Rebar Dimensions			Weld
X (in)	Y (in)	Rebar Size	Fillet Weld "W"
11	59	7	5/16
10' Side Columns			
Tension Rebar Dimensions			Weld
X (in)	Y (in)	Rebar Size	Fillet Weld "W"
17	65	8	5/16
10' Eave - Rebar & Weld			

12' height - End Columns				12' height - End Columns				12' height - End Columns			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size
30	122	8	6	30	104	8	6	30	94	8	6
12' height - Side Columns				12' height - SIde Columns				12' height - Side Columns			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size
36	140	8	8	36	120	8	8	36	108	8	8
12' Eave - 1500 psf [ ]				12' Eave - 2000 psf [ ]				12' Eave - 3000 psf [ ]			

12' End Columns			
Tension Rebar Dimensions			Weld
X (in)	Y (in)	Rebar Size	Fillet Weld "W"
13	59	7	5/16
12' Side Columns			
Tension Rebar Dimensions			Weld
X (in)	Y (in)	Rebar Size	Fillet Weld "W"
17	65	8	3/8
12' Eave - Rebar & Weld			

SEE BASE PLATE DETAILS FOR CORRECT ANCHOR LAYOUT


SEISMIC TIE HOOK DETAIL
90°
3"
6" MIN
SEISMIC TIE HOOK TO OVERLAP A MINIMUM OF 6" APART STAGGER ALONG DEPTH OF FOOTING
3" MIN COVER
FOOTING DIAMETER (A)
VERTICAL REINFORCING SEE CHART FOR SIZE AND QTY
NOTE: HOLE IN BASE PLATE FOR CONDUIT IS CENTERED ON BASE PLATE
X
Y
VERTICAL TENSION TIE ONE ON EACH SIDE OF EACH ANCHOR
COLUMN TO BASE PLATE
W
COLUMN-SEE FRAME ELEVATION FOR SIZING
FILL WITH NON-SHRINKING GROUT SEE DETAIL C1
TOP OF FINISHED FLOOR
2" MIN TOP COVER.
8"
1'-8"
#4 HORIZONTAL TIES (3) TIES IN THE TOP 5"
SEE DETAIL C2 FOR TAPING REQUIREMENT
FOOTING DEPTH (B)
CONDUIT BY OTHERS (MAX 1-1/2" DIA. CONDUIT)
CONDUIT RETURN MUST BE BELOW DEPTH OF ANCHOR RODS & CENTERED BETWEEN HORIZONTAL TIES MINIMUM 1-1/2" COVER BETWEEN CONDUIT & REBAR
#4 HORIZONTAL TIES 4 1/2" O.C. EQUALLY SPACED
3" MIN SIDE AND BOTTOM COVER.
FOOTING DIAMETER (A)

SEE DETAILS BP1, BP2 OR BP3 FOR ANCHOR BOLT PATTERNS
B1 & B2 ARE A (4) BOLT PATTERN WHILE B3 IS A (6) BOLT

RG30 - SPREAD

8' End Columns				8' End Columns				8' End Columns			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
66	30	9	6	62	30	8	6	63	30	8	6
8' Side Columns				8' Side Columns				8' Side Columns			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
96	30	12	6	96	30	12	6	80	30	10	6
8' Eave - 1500 psf [ ]				8' Eave - 2000 psf [ ]				8' Eave - 3000 psf [ ]			

8' End Columns			
Tie Dimensions			Weld
B (in)	C (in)	Rebar Size	Fillet Weld "W"
16	17.5	4	5/16
8' Side Columns			
Tie Dimensions			Weld
B (in)	C (in)	Rebar Size	Fillet Weld "W"
17	23.5	4	3/8
8' Eave - Rebar & Weld			

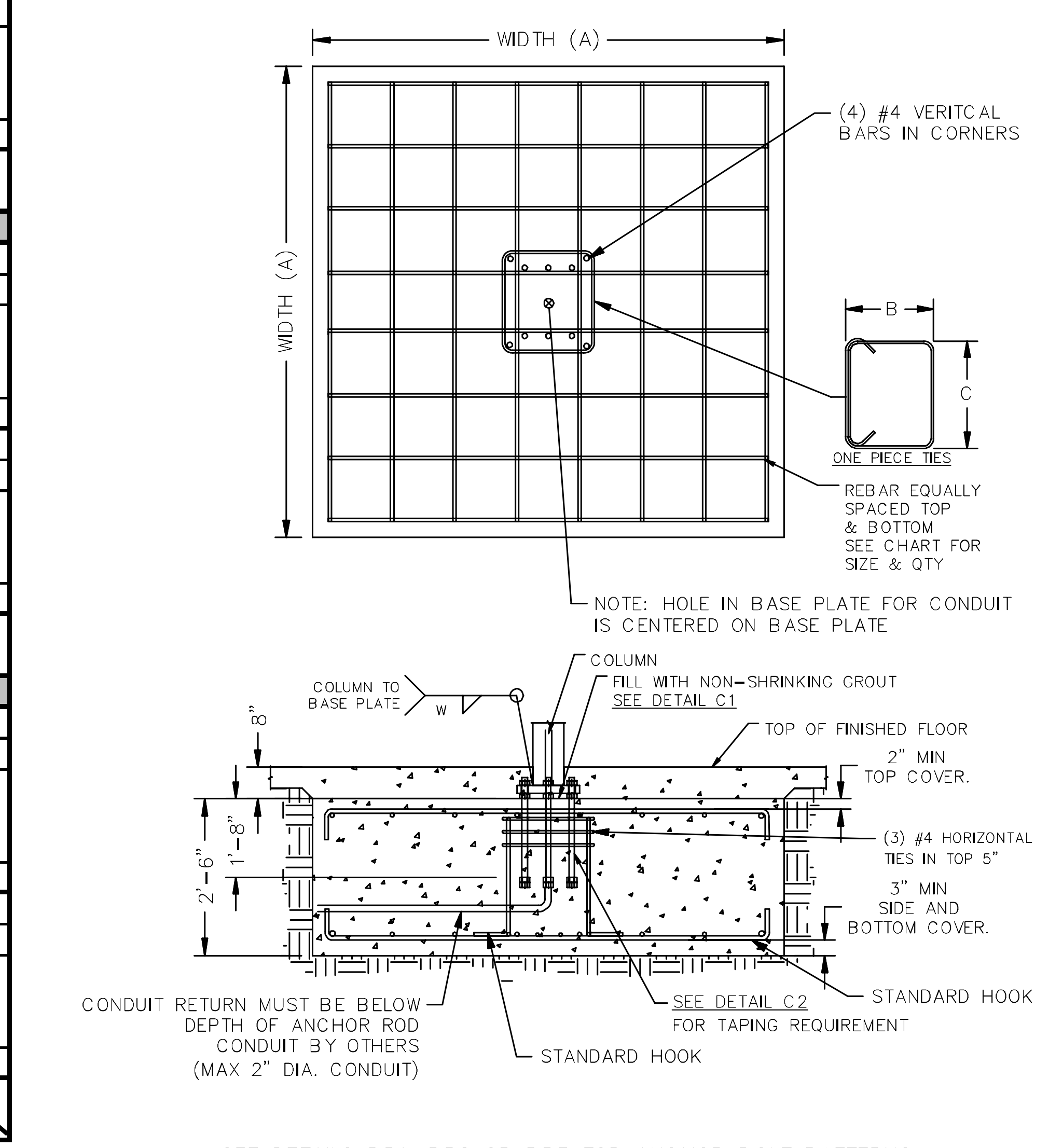
10' End Columns				10' End Columns				10' End Columns			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
66	30	9	6	62	30	8	6	63	30	8	6
10' Side Columns				10' Side Columns				10' Side Columns			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
84	30	11	6	84	30	11	6	78	30	10	6
10' Eave - 1500 psf [ ]				10' Eave - 2000 psf [ ]				10' Eave - 3000 psf [ ]			

10' End Columns			
Tie Dimensions			Weld
B (in)	C (in)	Rebar Size	Fillet Weld "W"
16	17.5	4	5/16
10' Side Columns			
Tie Dimensions			Weld
B (in)	C (in)	Rebar Size	Fillet Weld "W"
17	23.5	4	5/16
10' Eave - Rebar & Weld			

12' End Columns				12' End Columns				12' End Columns			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
69	30	9	6	68	30	9	6	68	30	9	6
12' Side Columns				12' Side Columns				12' Side Columns			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
84	30	11	6	78	30	10	6	78	30	10	6
12' Eave - 1500 psf [ ]				12' Eave - 2000 psf [ ]				12' Eave - 3000 psf [ ]			

12' End Columns			
Tie Dimensions			Weld
B (in)	C (in)	Rebar Size	Fillet Weld "W"
16	19.5	4	5/16
12' Side Columns			
Tie Dimensions			Weld
B (in)	C (in)	Rebar Size	Fillet Weld "W"
17	23.5	4	3/8
12' Eave - Rebar & Weld			

SEE BASE PLATE DETAILS FOR CORRECT ANCHOR LAYOUT


WIDTH (A)
WIDTH (A)
(4) #4 VERITCAL BARS IN CORNERS
B
C
ONE PIECE TIES
REBAR EQUALLY SPACED TOP & BOTTOM SEE CHART FOR SIZE & QTY
NOTE: HOLE IN BASE PLATE FOR CONDUIT IS CENTERED ON BASE PLATE
COLUMN TO BASE PLATE
W
COLUMN
FILL WITH NON-SHRINKING GROUT SEE DETAIL C1
TOP OF FINISHED FLOOR
2" MIN TOP COVER.
8"
1'-8"
2'-6"
(3) #4 HORIZONTAL TIES IN TOP 5"
3" MIN SIDE AND BOTTOM COVER.
CONDUIT RETURN MUST BE BELOW DEPTH OF ANCHOR ROD CONDUIT BY OTHERS (MAX 2" DIA. CONDUIT)
SEE DETAIL C2 FOR TAPING REQUIREMENT
STANDARD HOOK
STANDARD HOOK

SEE DETAILS BP1, BP2 OR BP3 FOR ANCHOR BOLT PATTERNS
B1 & B2 ARE A (4) BOLT PATTERN WHILE B3 IS A (6) BOLT

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

30' WIDE
RECTANGULAR GABLE
FOUNDATION PLAN

ICON Shelter Systems Inc
DISTINCTIVE STEEL SHELTERS
WWW.ICONSHELTERS.COM

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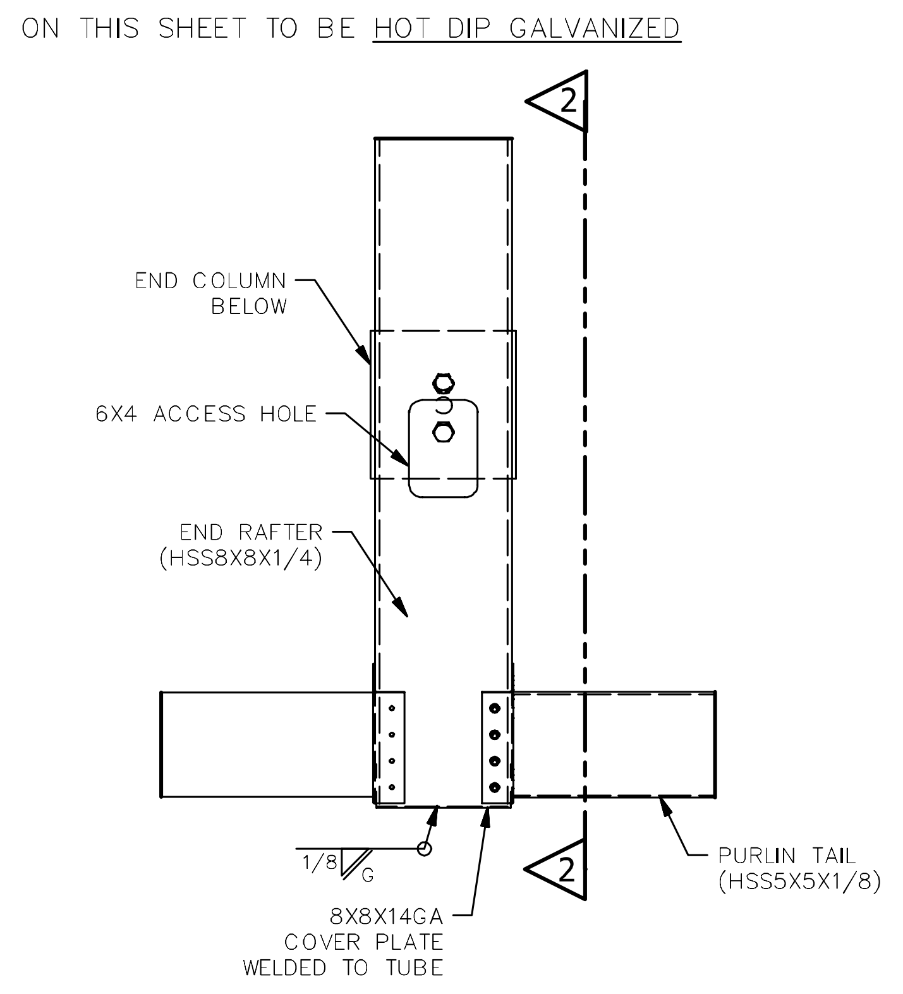
LS3.0

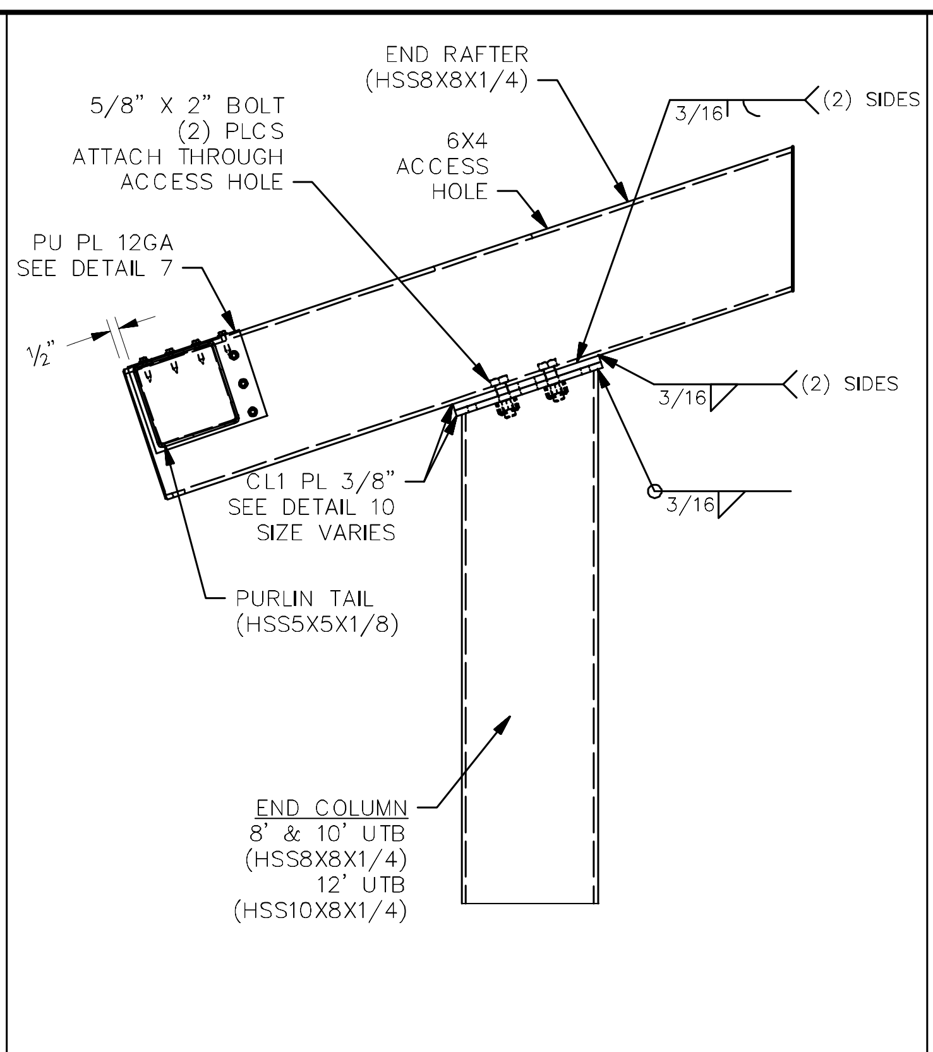
S:\Engineering\Inventor\DSA 2019\PC 2019 RG DSA\30 FOOT WIDE\DSA RG30-P4.iam

PRINTED ON :

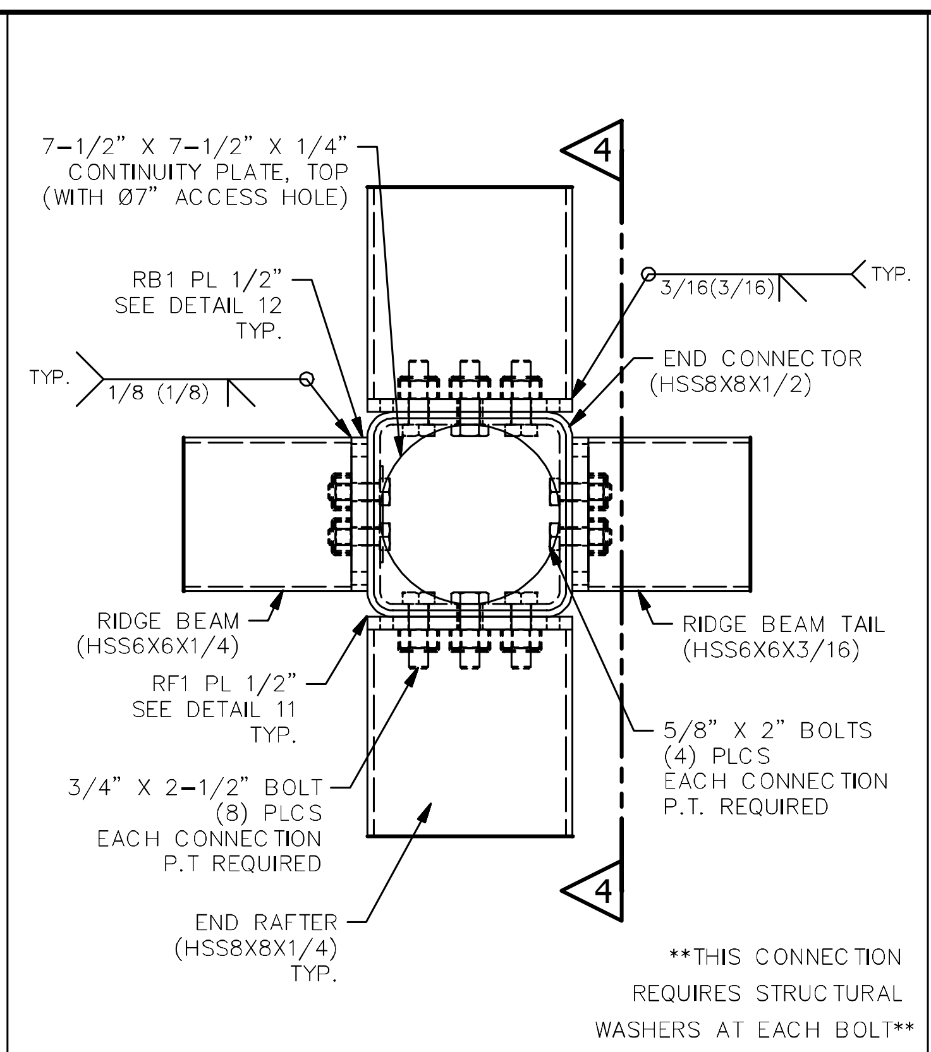
ALL STRUCTURAL FASTENERS (NUTS, BOLTS & WASHERS) ON THIS SHEET TO BE HOT DIP GALVANIZED



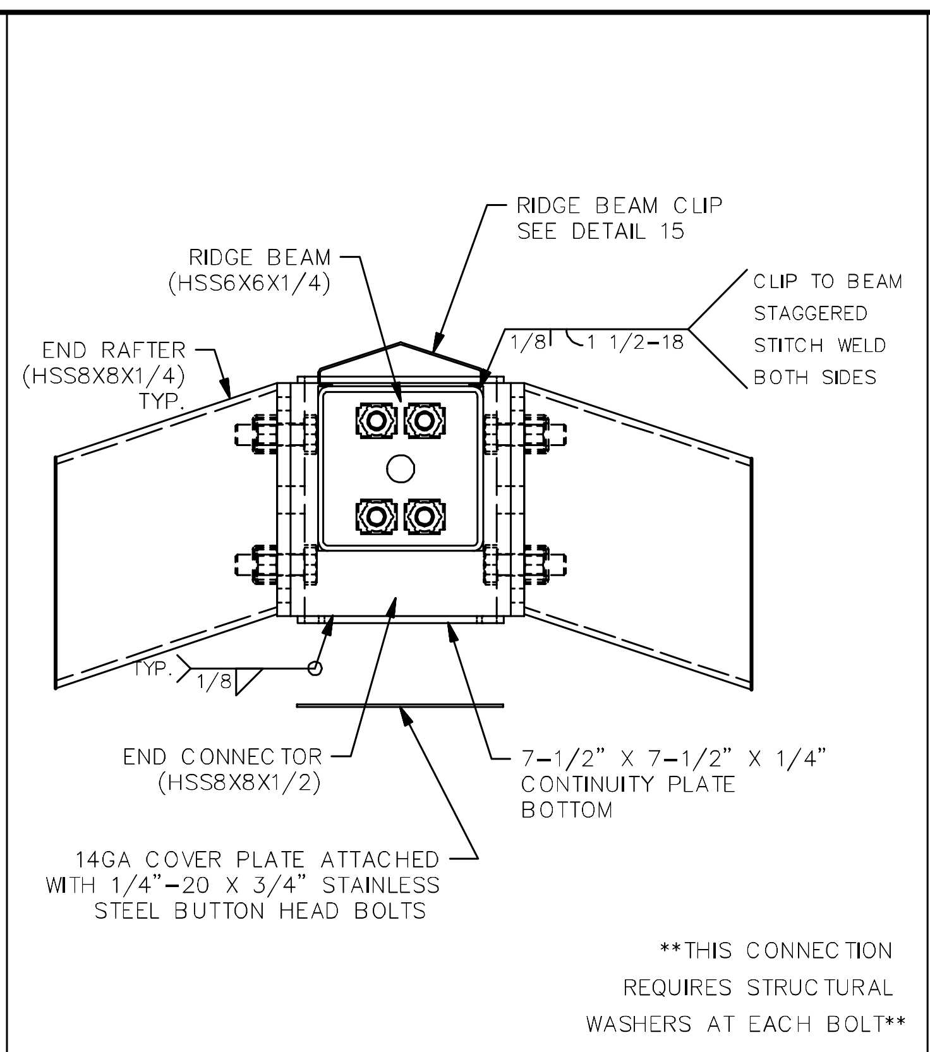
PLAN – PURLIN & END RAFTER CONNECTIONS @ END COLUMN 1


5/8" X 2" BOLT (2) PLCS ATTACH THROUGH ACCESS HOLE
END RAFTER (HSS8X8X1/4)
6X4 ACCESS HOLE
3/16 (2) SIDES
PU PL 12GA SEE DETAIL 7
½"
CL1 PL 3/8" SEE DETAIL 10 SIZE VARIES
PURLIN TAIL (HSS5X5X1/8)
3/16 (2) SIDES
3/16
END COLUMN 8' & 10' UTB (HSS8X8X1/4) 12' UTB (HSS10X8X1/4)

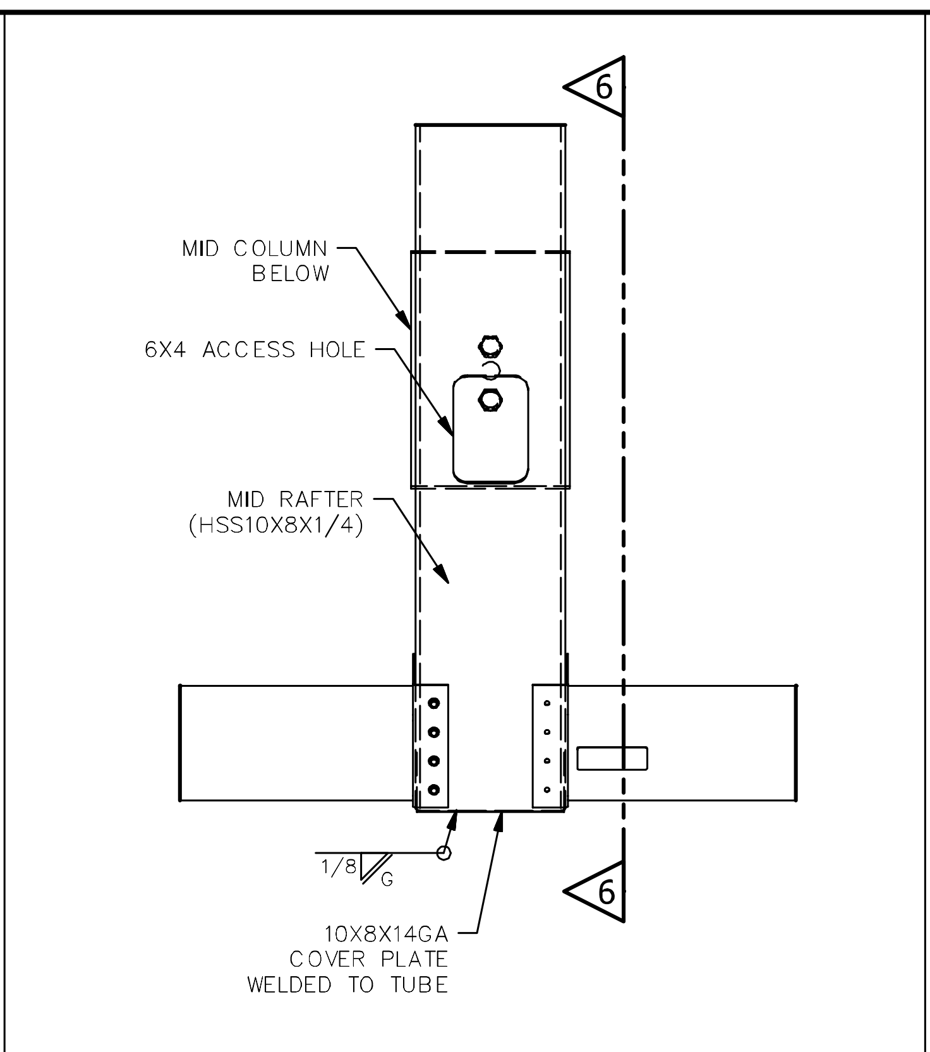
VIEW – PURLIN & END RAFTER CONNECTIONS @ END COLUMN 2


7–1/2" X 7–1/2" X 1/4" CONTINUITY PLATE, TOP (WITH Ø7" ACCESS HOLE)
4
RB1 PL 1/2" SEE DETAIL 12 TYP.
TYP. 1/8 (1/8)
3/16(3/16) TYP.
END CONNECTOR (HSS8X8X1/2)
RIDGE BEAM (HSS6X6X1/4)
RIDGE BEAM TAIL (HSS6X6X3/16)
RF1 PL 1/2" SEE DETAIL 11 TYP.
5/8" X 2" BOLTS (4) PLCS EACH CONNECTION P.T. REQUIRED
3/4" X 2–1/2" BOLT (8) PLCS EACH CONNECTION P.T REQUIRED
END RAFTER (HSS8X8X1/4) TYP.
THIS CONNECTION REQUIRES STRUCTURAL WASHERS AT EACH BOLT

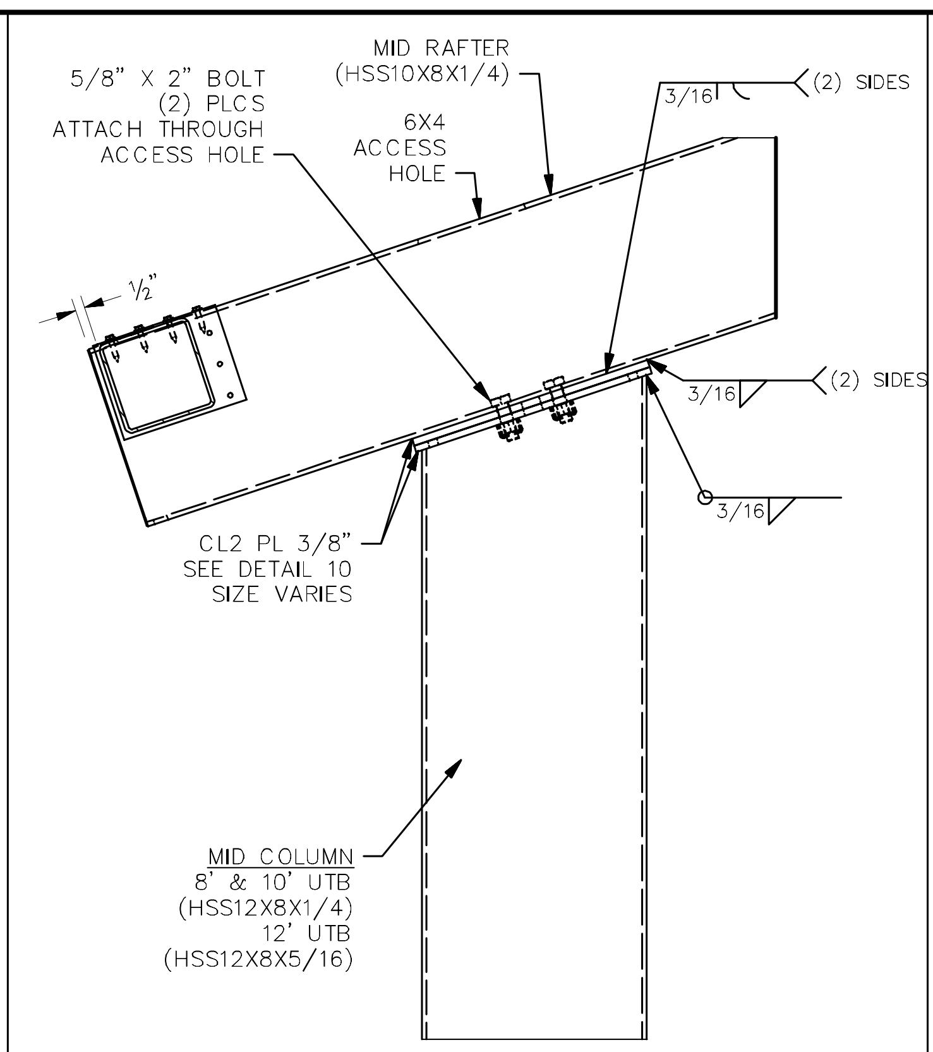
PLAN – END RAFTER & RIDGE BEAM CONNECTIONS @ END CONNECTOR 3


RIDGE BEAM (HSS6X6X1/4)
RIDGE BEAM CLIP SEE DETAIL 15
END RAFTER (HSS8X8X1/4) TYP.
1/8 1 1/2–18
CLIP TO BEAM STAGGERED STITCH WELD BOTH SIDES
TYP. 1/8
END CONNECTOR (HSS8X8X1/2)
7–1/2" X 7–1/2" X 1/4" CONTINUITY PLATE BOTTOM
14GA COVER PLATE ATTACHED WITH 1/4"–20 X 3/4" STAINLESS STEEL BUTTON HEAD BOLTS
THIS CONNECTION REQUIRES STRUCTURAL WASHERS AT EACH BOLT

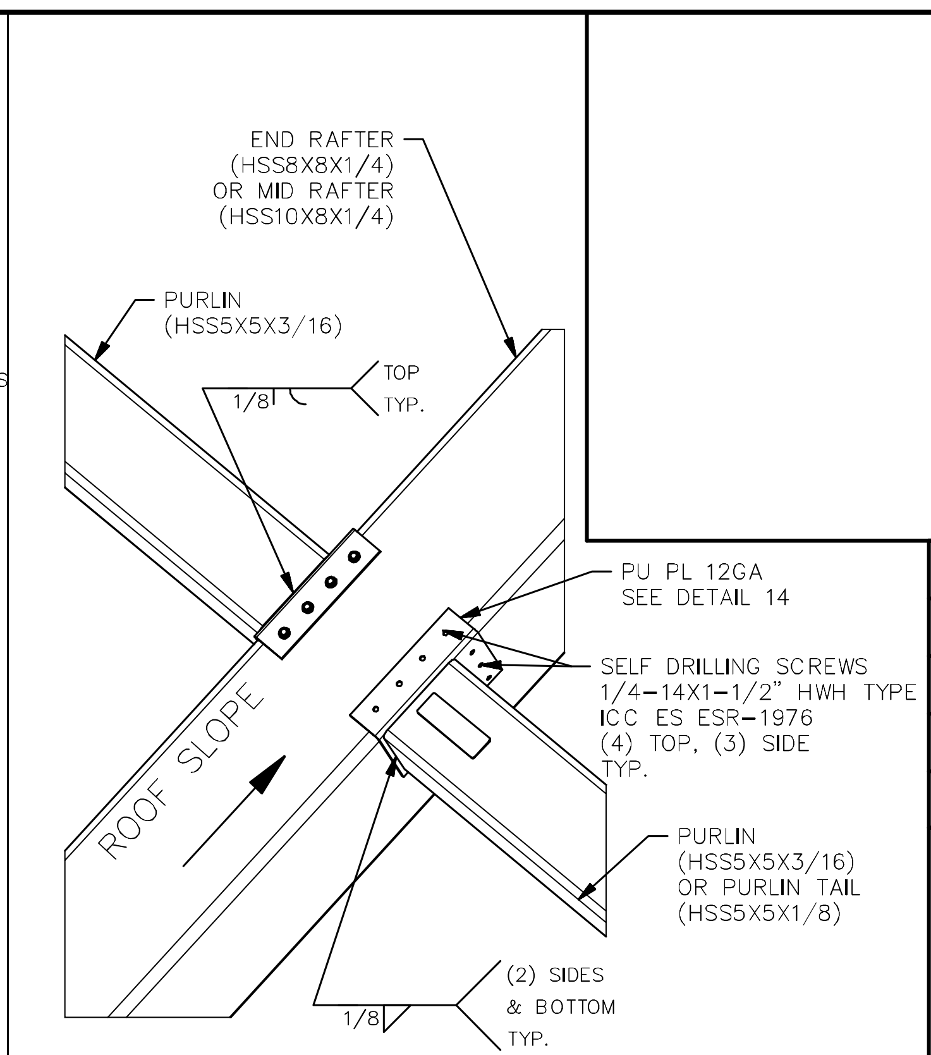
VIEW – END RAFTER & RIDGE BEAM CONNECTIONS @ END CONNECTOR 4



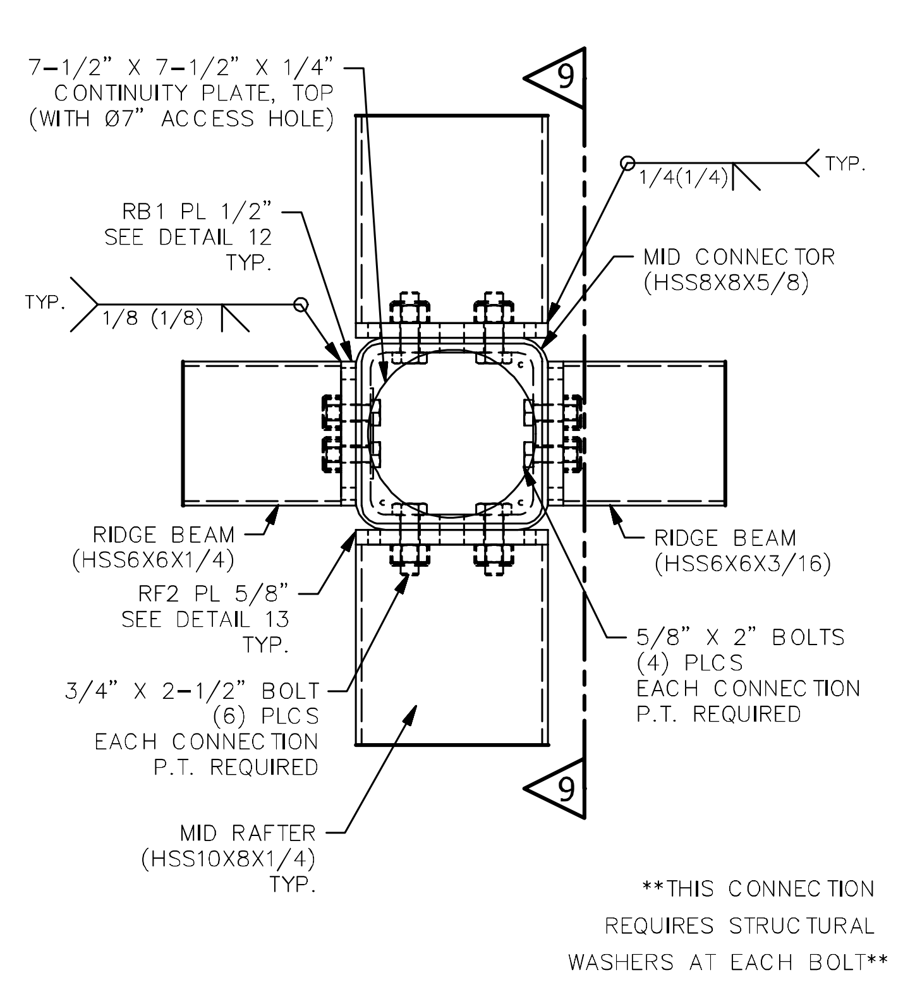
PLAN – PURLIN & MID RAFTER CONNECTIONS @ MID COLUMN 5


5/8" X 2" BOLT (2) PLCS ATTACH THROUGH ACCESS HOLE
MID RAFTER (HSS10X8X1/4)
6X4 ACCESS HOLE
3/16 (2) SIDES
½"
CL2 PL 3/8" SEE DETAIL 10 SIZE VARIES
3/16 (2) SIDES
3/16
MID COLUMN 8' & 10' UTB (HSS12X8X1/4) 12' UTB (HSS12X8X5/16)

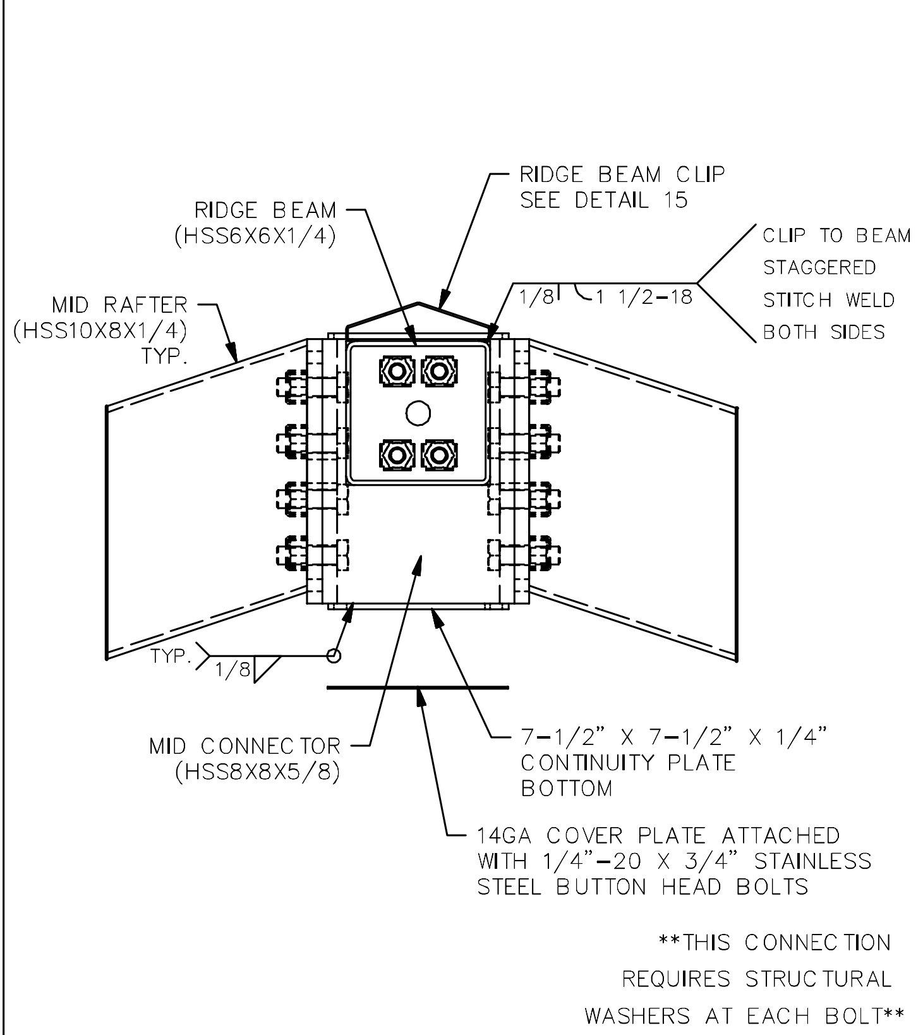
VIEW – PURLIN & MID RAFTER CONNECTIONS @ MID COLUMN 6


END RAFTER (HSS8X8X1/4) OR MID RAFTER (HSS10X8X1/4)
PURLIN (HSS5X5X3/16)
1/8 TOP TYP.
PU PL 12GA SEE DETAIL 14
SELF DRILLING SCREWS 1/4–14X1–1/2" HWH TYPE ICC ES ESR–1976 (4) TOP, (3) SIDE TYP.
ROOF SLOPE
PURLIN (HSS5X5X3/16) OR PURLIN TAIL (HSS5X5X1/8)
1/8 (2) SIDES & BOTTOM TYP.

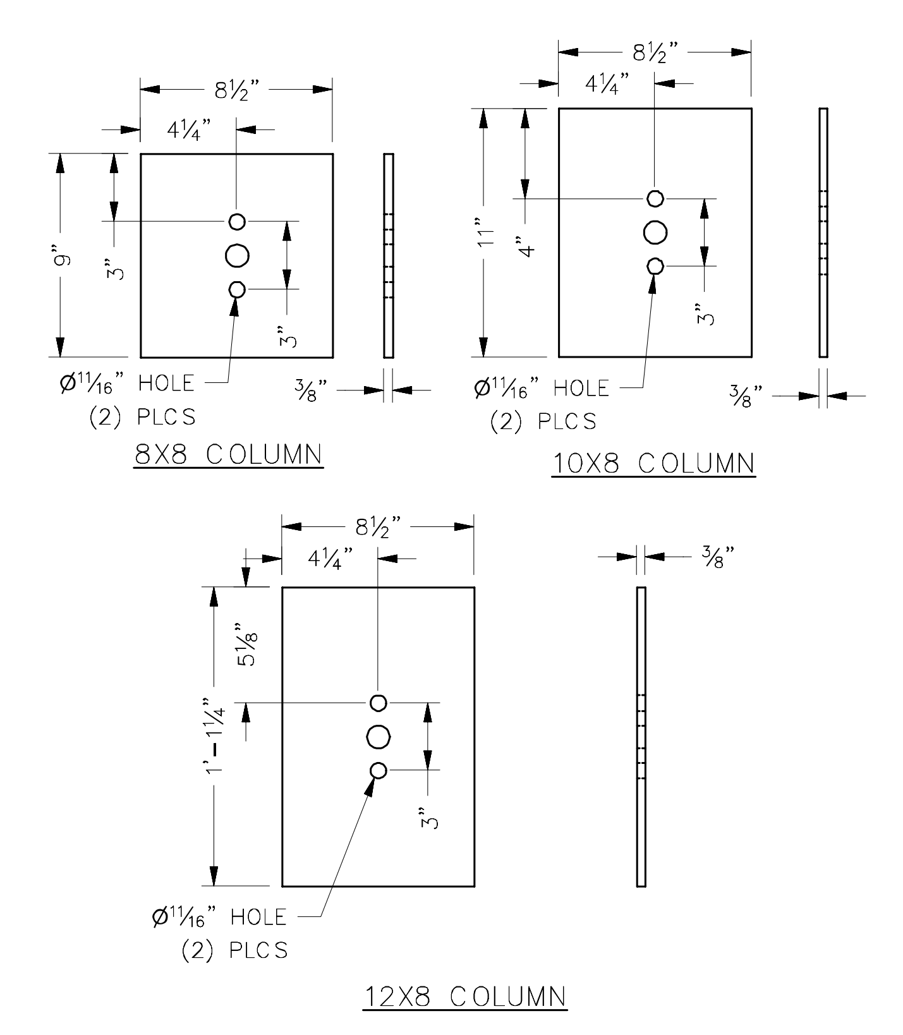
ISOMETRIC – PURLIN CONNECTIONS @ RAFTER 7


7–1/2" X 7–1/2" X 1/4" CONTINUITY PLATE, TOP (WITH Ø7" ACCESS HOLE)
9
1/4(1/4) TYP.
RB1 PL 1/2" SEE DETAIL 12 TYP.
MID CONNECTOR (HSS8X8X5/8)
TYP. 1/8 (1/8)
RIDGE BEAM (HSS6X6X1/4)
RIDGE BEAM (HSS6X6X3/16)
RF2 PL 5/8" SEE DETAIL 13 TYP.
5/8" X 2" BOLTS (4) PLCS EACH CONNECTION P.T. REQUIRED
3/4" X 2–1/2" BOLT (6) PLCS EACH CONNECTION P.T. REQUIRED
MID RAFTER (HSS10X8X1/4) TYP.
9
THIS CONNECTION REQUIRES STRUCTURAL WASHERS AT EACH BOLT

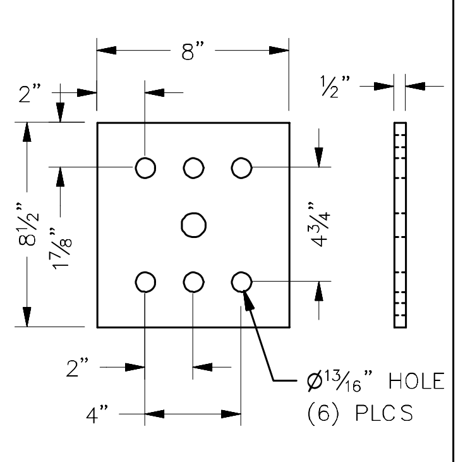
PLAN – MID RAFTER & RIDGE BEAM CONNECTIONS @ MID CONNECTOR 8


RIDGE BEAM (HSS6X6X1/4)
RIDGE BEAM CLIP SEE DETAIL 15
CLIP TO BEAM STAGGERED STITCH WELD BOTH SIDES
1/8 1 1/2–18
MID RAFTER (HSS10X8X1/4) TYP.
TYP. 1/8
MID CONNECTOR (HSS8X8X5/8)
7–1/2" X 7–1/2" X 1/4" CONTINUITY PLATE BOTTOM
14GA COVER PLATE ATTACHED WITH 1/4"–20 X 3/4" STAINLESS STEEL BUTTON HEAD BOLTS
THIS CONNECTION REQUIRES STRUCTURAL WASHERS AT EACH BOLT

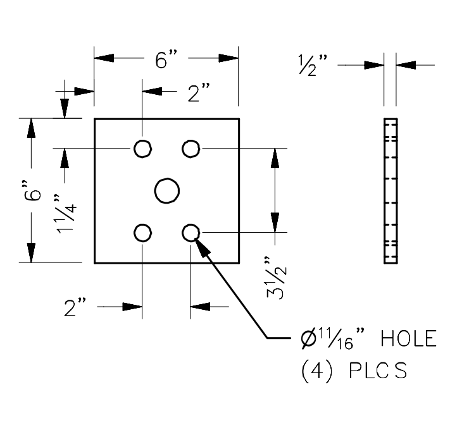
VIEW – MID RAFTER & RIDGE BEAM CONNECTIONS @ MID CONNECTOR 9



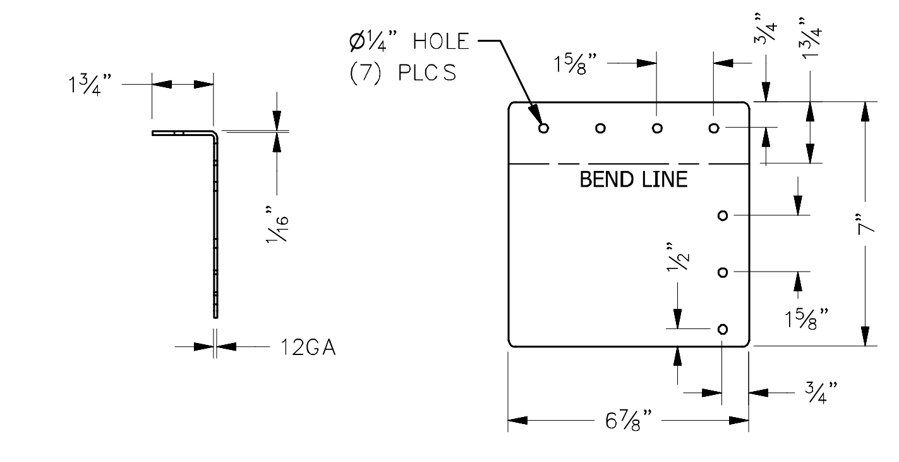
COLUMN TO RAFTER PLATE DETAILS 10



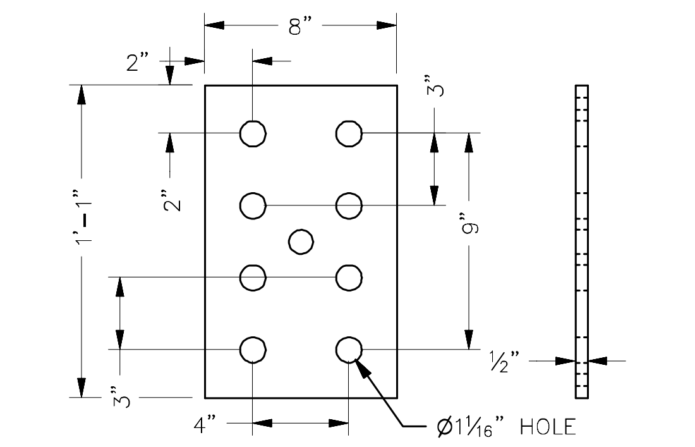
8X8 END RAFTER PLATE DETAIL 11



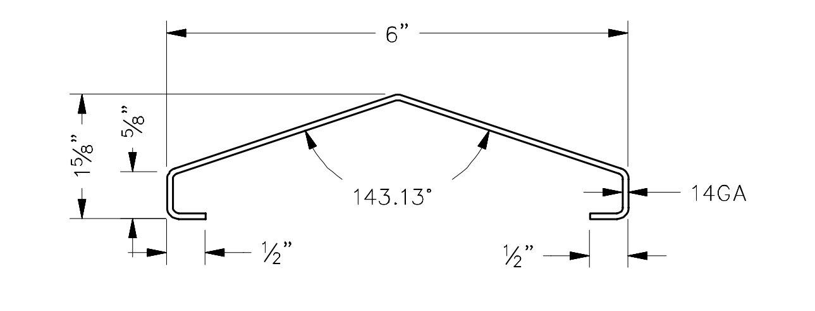
RIDGE BEAM PLATE DETAIL 12



PURLIN PLATE DETAIL 14

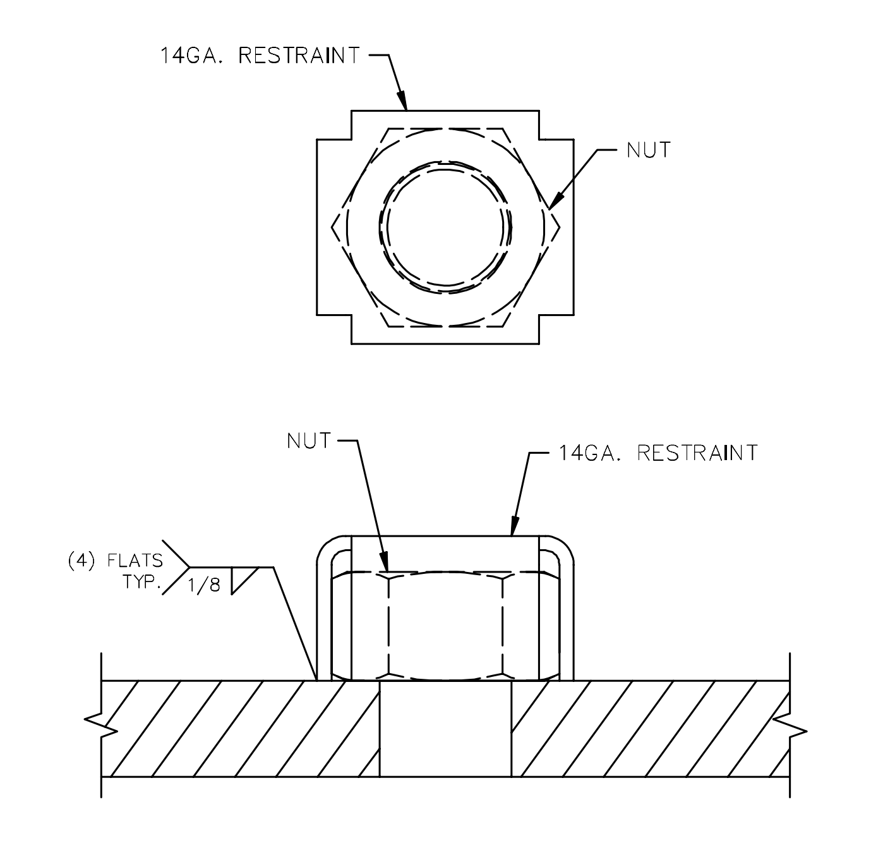


10X8 MID RAFTER PLATE DETAIL 13

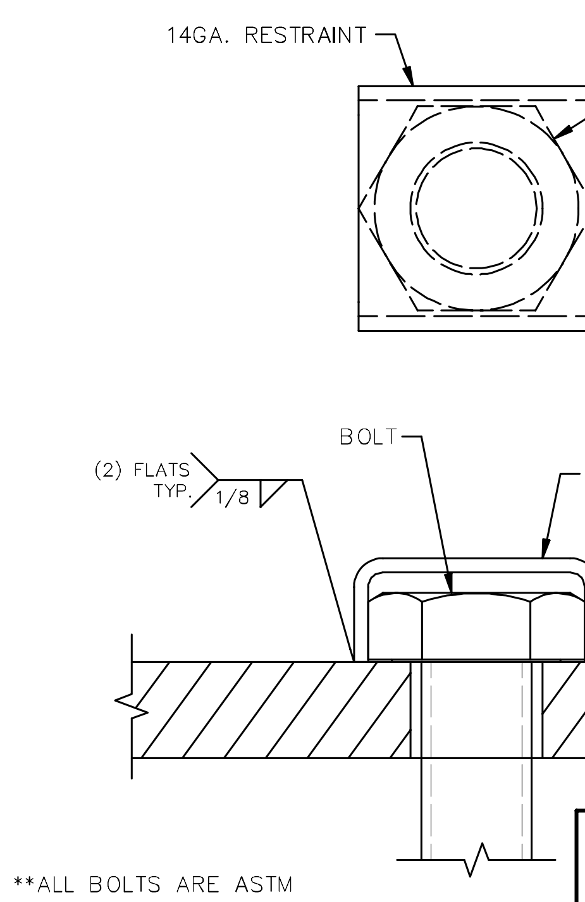


SECTION PROPERTIES
A=0.657 in^2 Fy=36 ksi
Ix=0.087 in^4 Sx=0.03 in^3
Iy=2.92 in^4 Sy=0.97 in^3

RIDGE BEAM CLIP (6" WIDE BEAM) 15

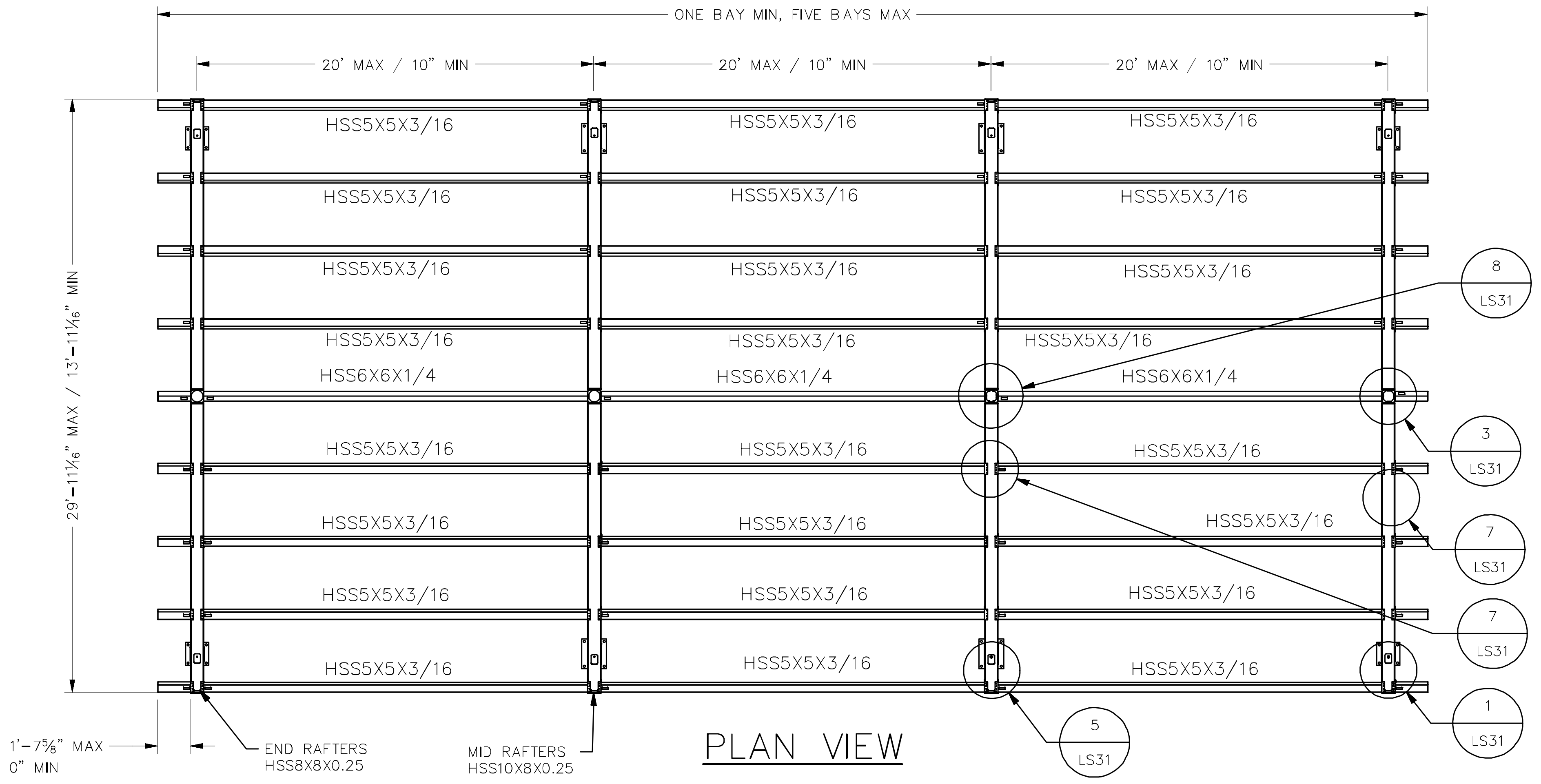


TYPICAL NUT RESTRAINING SYSTEM NR

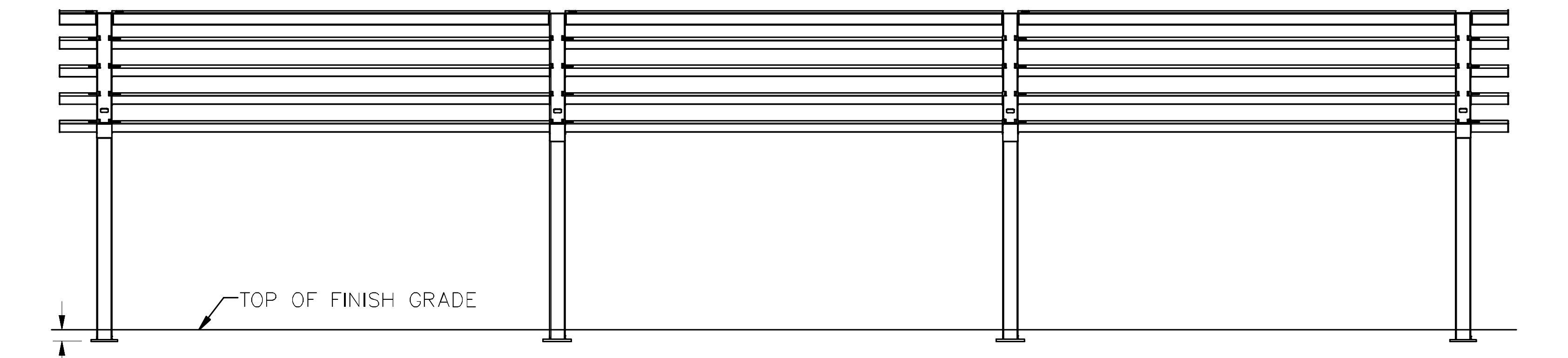


ALL BOLTS ARE ASTM F3125 GR A325 HIGH STRENGTH BOLTS GALVANIZED PER SHEET LS1.0

TYPICAL BOLT RESTRAINING SYSTEM BR



PLAN VIEW



FRONT VIEW

*NOTE:
QUANTITIES WILL VARY DEPENDING ON SHELTER SIZE ORDERED, PLEASE REFER TO JOB SPECIFIC BILL OF MATERIALS AND INSTALLATION MANUAL.

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	LENGTH	UNIT WEIGHT
1	4		END COLUMN	**SEE NOTE BELOW		285 lbmass
2	*		MID COLUMN	**SEE NOTE BELOW		381 lbmass
3	4		END RAFTER	HSS8X8X1/4		414 lbmass
4	*		MID RAFTER	HSS10X8X1/4		475 lbmass
5	**		PURLIN	HSS5X5X3/16		234 lbmass
6	6		PURLIN TAIL 1	HSS5X5X1/8		15 lbmass
7	6		PURLIN TAIL 2	HSS5X5X1/8		15 lbmass
8	*		RIDGE BEAM	HSS6X6X1/4		333 lbmass
9	2		RIDGE BEAM TAIL	HSS6X6X3/16		34 lbmass
10	2		END CONNECTOR	HSS8X8X1/2		35 lbmass
11	*		MID CONNECTOR	HSS8X8X5/8		55 lbmass

**NOTE:
MATERIAL WILL VARY DEPENDING ON SHELTER SIZE ORDERED.

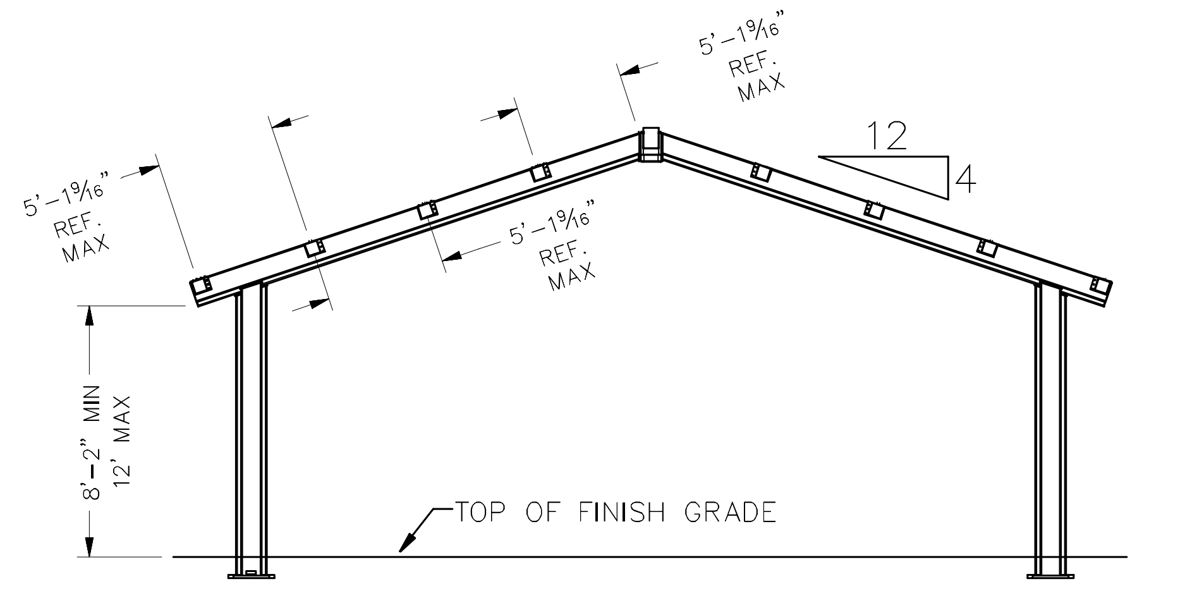
☐ ~~END COLUMN 8' UTB – (HSS8X8X1/4)~~
☐ ~~MID COLUMN 8' UTB – (HSS12X8X5/16)~~

☐ ~~END COLUMN 10' UTB – (HSS8X8X1/4)~~
☐ ~~MID COLUMN 10' UTB – (HSS12X8X5/16)~~

☒ END COLUMN 12' UTB – (HSS10X8X1/4)
☒ MID COLUMN 12' UTB – (HSS12X8X5/16)

98" MIN IF USED OVER ACCESSIBLE PARKING OR ACCESS AISLES

114" MIN IF LOCATED OVER ACCESSIBLE PASSENGER LOADING ZONES

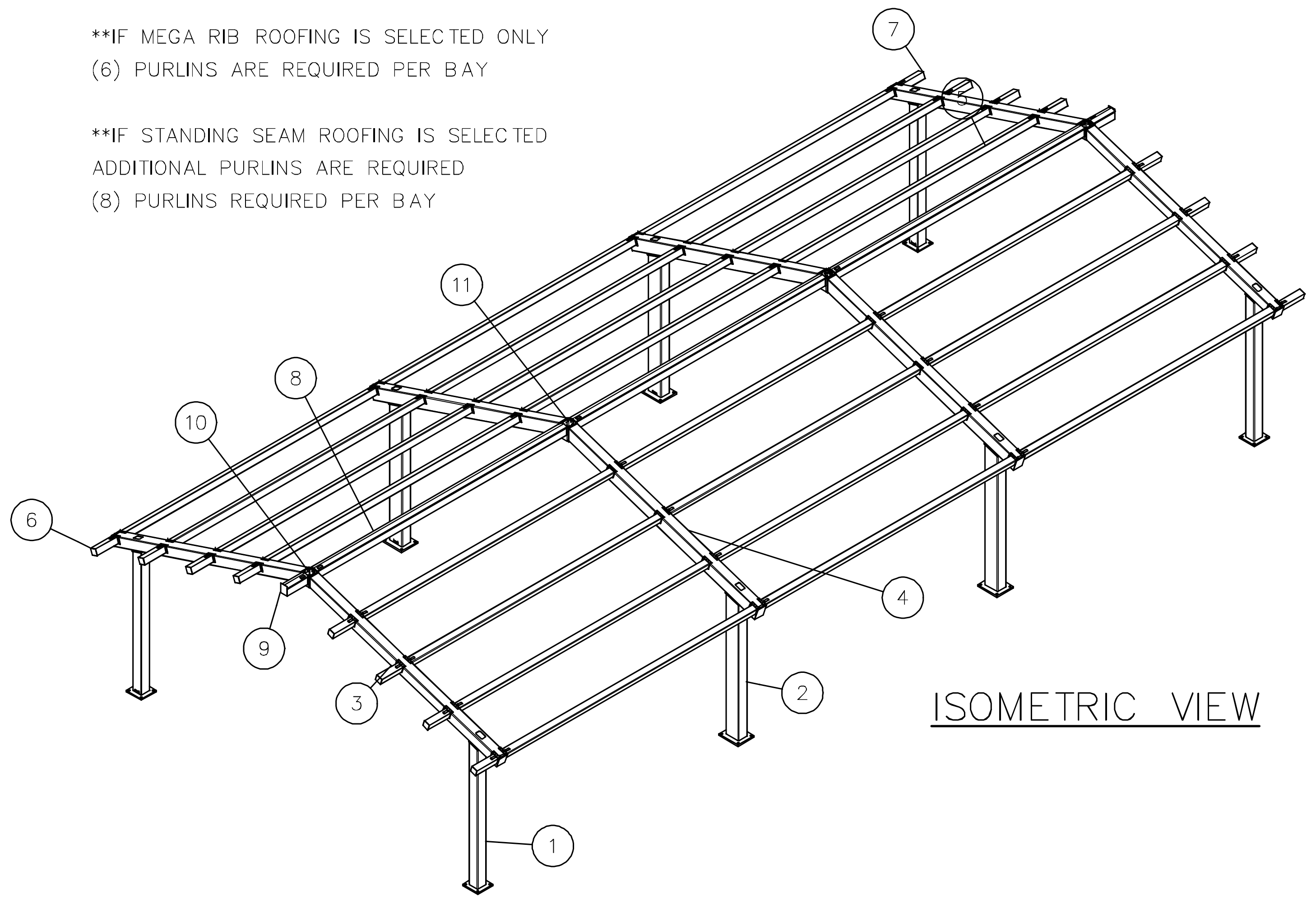


SIDE VIEW

**IF MULTI RIB ROOFING IS SELECTED ONLY (6) PURLINS ARE REQUIRED PER BAY

**IF MEGA RIB ROOFING IS SELECTED ONLY (6) PURLINS ARE REQUIRED PER BAY

**IF STANDING SEAM ROOFING IS SELECTED ADDITIONAL PURLINS ARE REQUIRED (8) PURLINS REQUIRED PER BAY



ISOMETRIC VIEW

MODEL DESIGNATION	
RG30X24	1 BAY
~~RG30X44~~	~~2 BAY~~
~~RG30X64~~	~~3 BAY~~
~~RG30X84~~	~~4 BAY~~
~~RG30X104~~	~~5 BAY~~

MODEL SHOWS 3 BAY SHELTER (RG30X64)
PLEASE REFER TO ANCHOR BOLT LAYOUT SHEET FOR CORRECT COLUMN PLACEMENT BASED ON SIZE ORDERED

ICON STD	RG/DSA–PC
DRAWN BY	JD
DATE	3/21/2023
REV	
REV DATE	

JRMA
ARCHITECTS ENGINEERS
2700 SATURN ST I BREA, CA 92821
T. 714.524.1870 I F. 714.524.1875
WWW.JRMA.COM

MICHAEL D. LOCK S4092
Aug 31, 2023

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122188 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/21/2023

30' WIDE RECTANGULAR GABLE FRAMING & CONNECTION DETAILS

ICON Shelter Systems Inc
DISTINCTIVE STEEL SHELTERS
WWW.ICONSHELTERS.COM

COPYRIGHT 2004, ICON SHELTER SYSTEMS, INC.

1455 LINCOLN AVE
HOLLAND MI, 49423

616.396.0919
800.748.0985
616.396.0944 FX

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

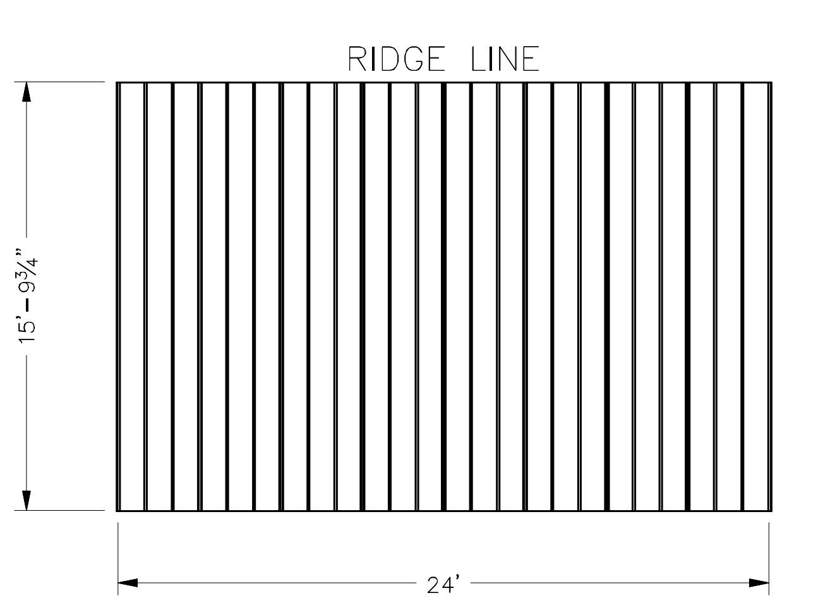
30' WIDE RECTANGULAR GABLE

LS3.1

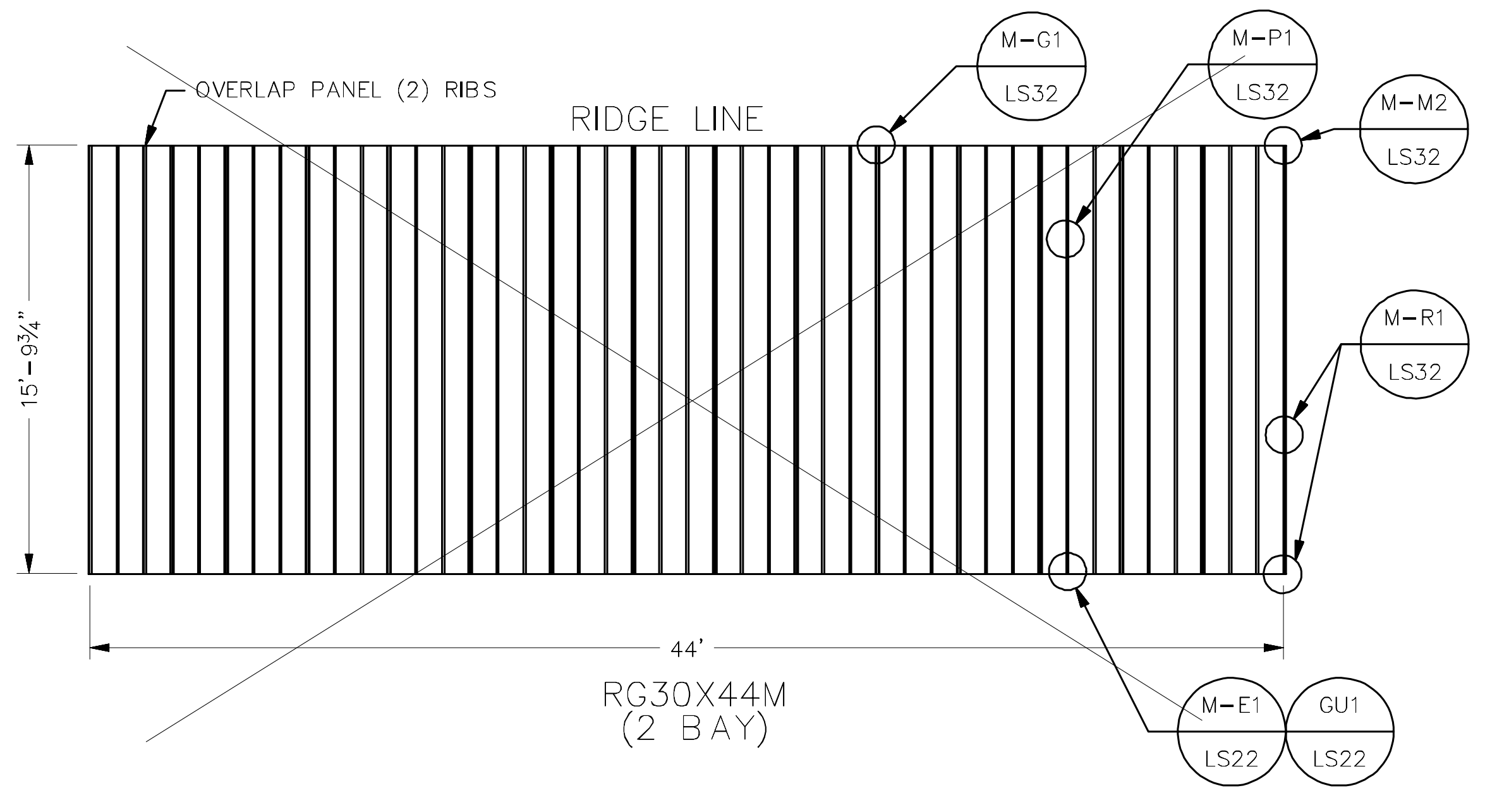
S:\Engineering\Inventor\DSA 2022\PC 2022 RG DSA\30 FOOT\DSA RG30–P4.iam

PRINTED ON :

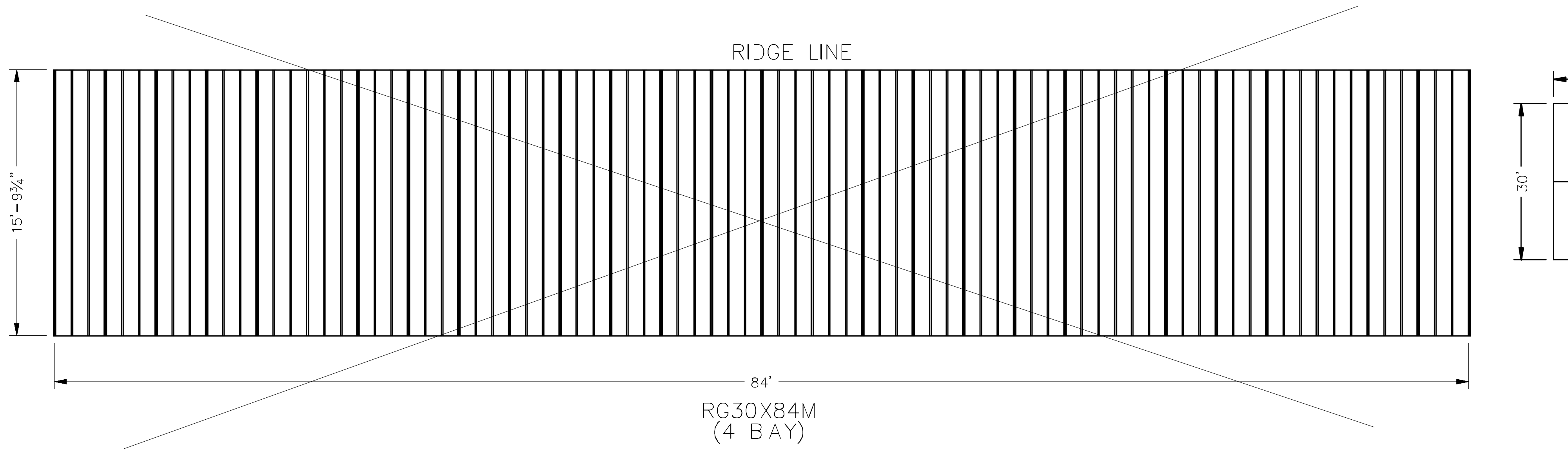
NOTE: DETAILS TYPICAL FOR ALL LAYOUTS



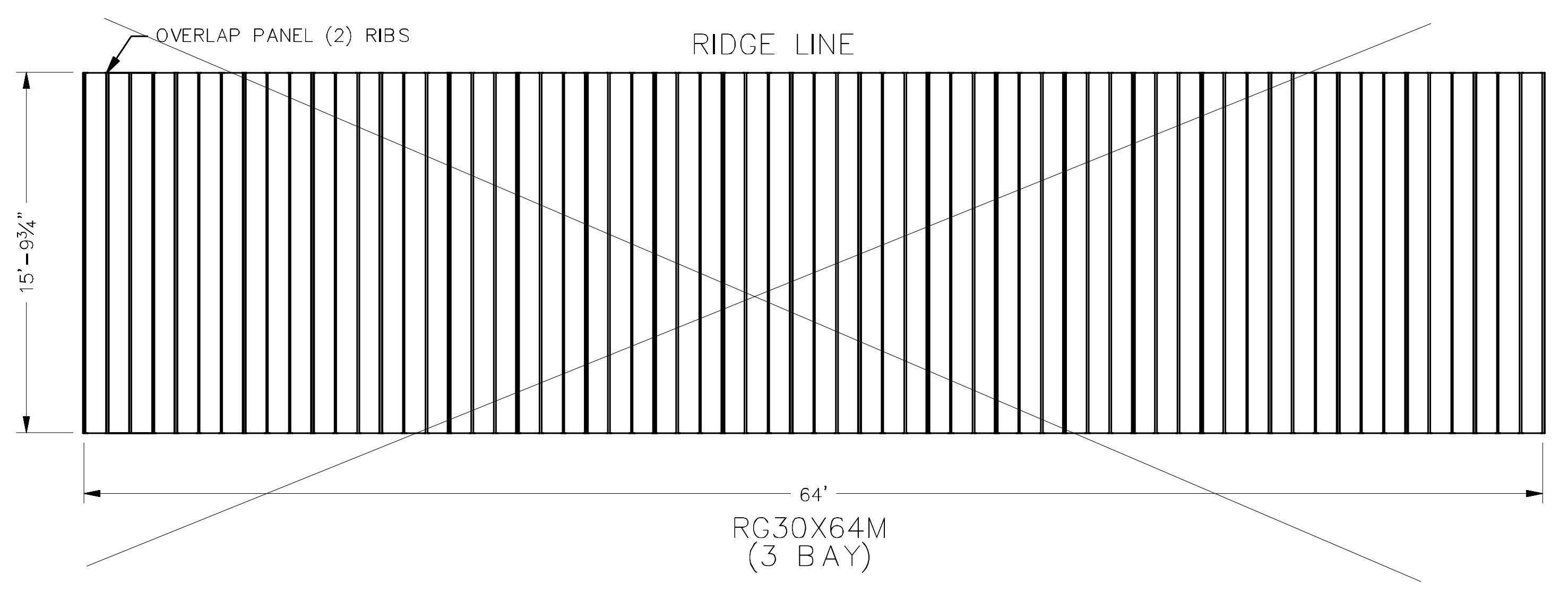
RG30X24M
(1 BAY)



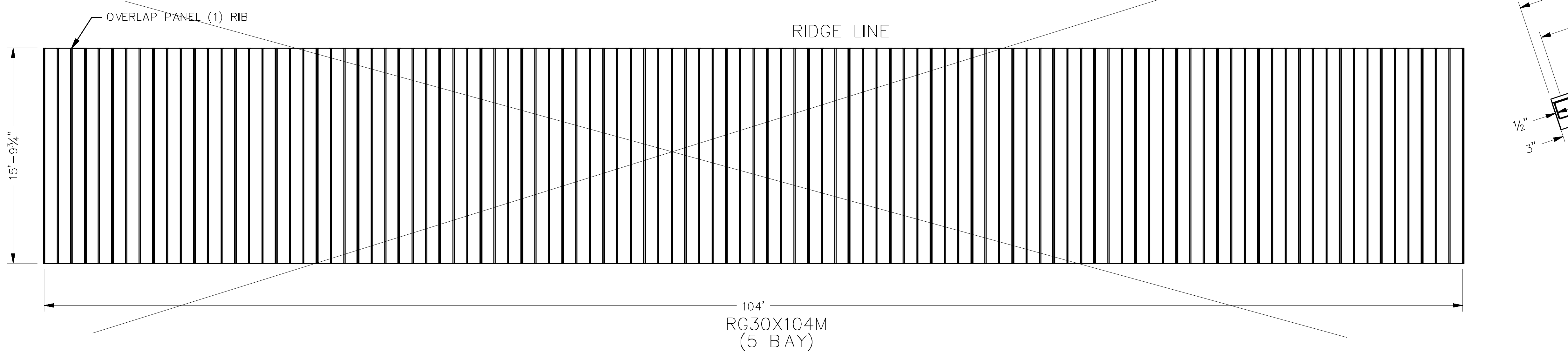
RG30X44M
(2 BAY)



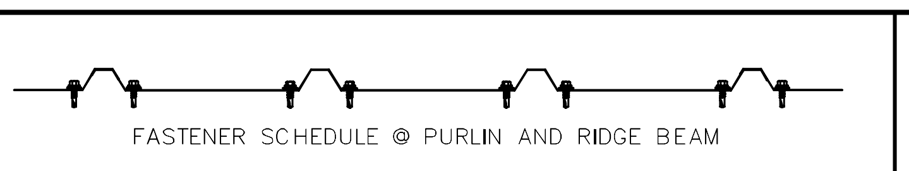
RG30X84M
(4 BAY)



RG30X64M
(3 BAY)



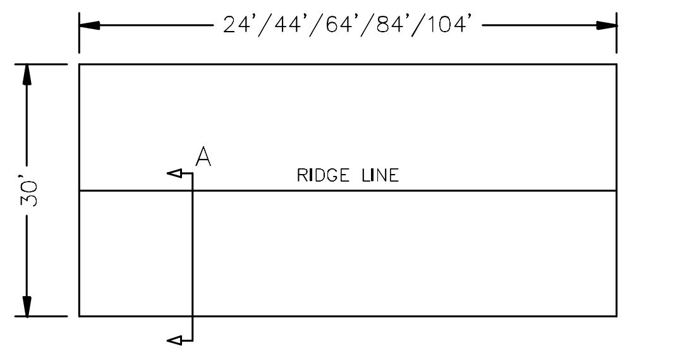
RG30X104M
(5 BAY)



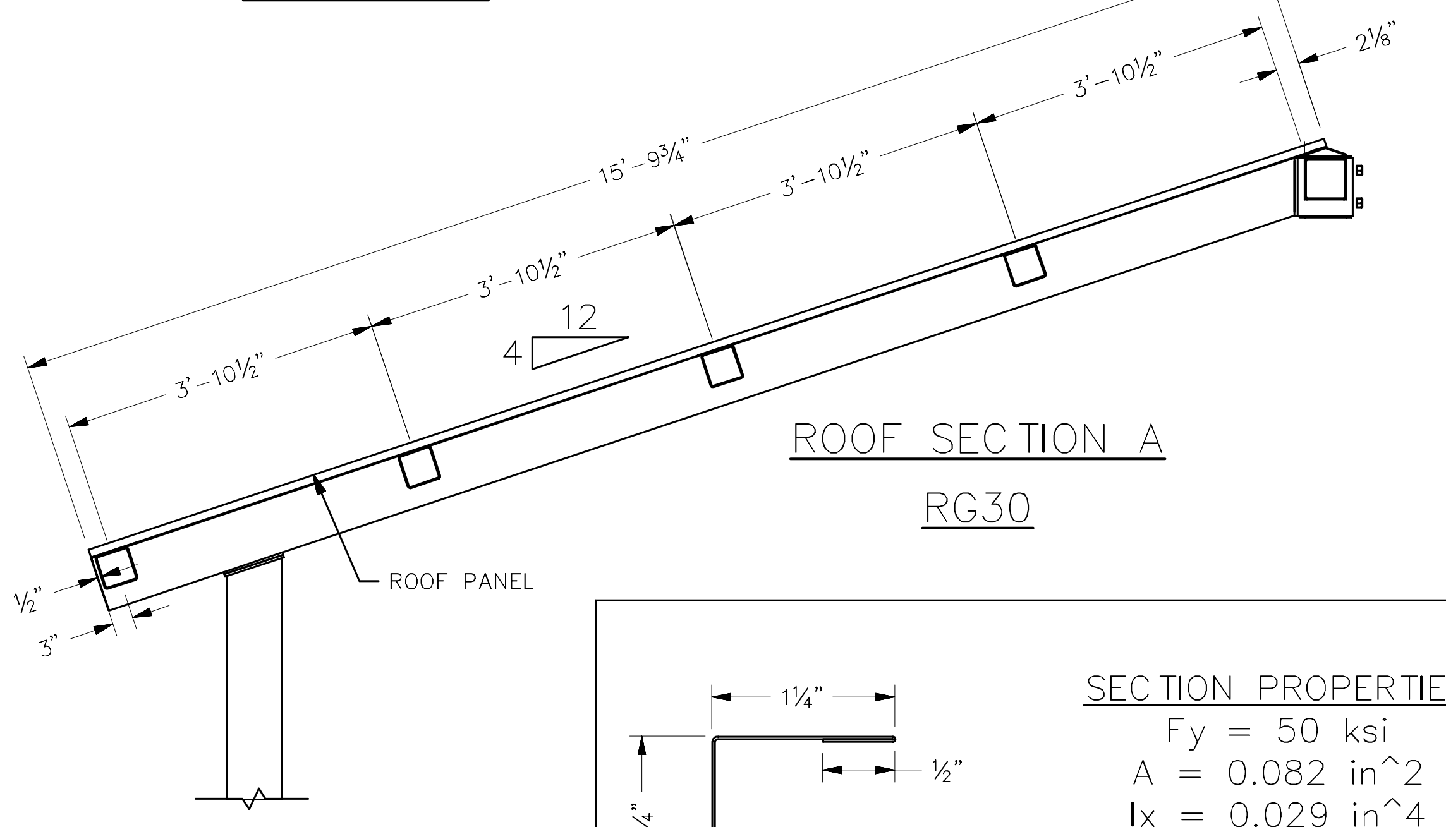
FASTENER SCHEDULE @ PURLIN AND RIDGE BEAM

FASTENER SCHEDULE

NOT TO SCALE

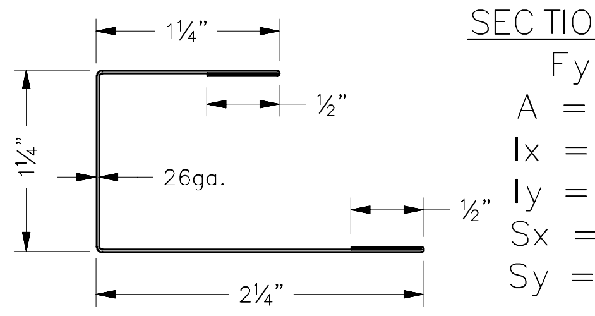


ROOF PLAN VIEW



ROOF SECTION A

RG30



SECTION PROPERTIES

Fy = 50 ksi

A = 0.082 in^2

Ix = 0.029 in^4

Iy = 0.039 in^4

Sx = 0.019 in^3

Sy = 0.049 in^3

MULTI RIB EAVE TRIM ①

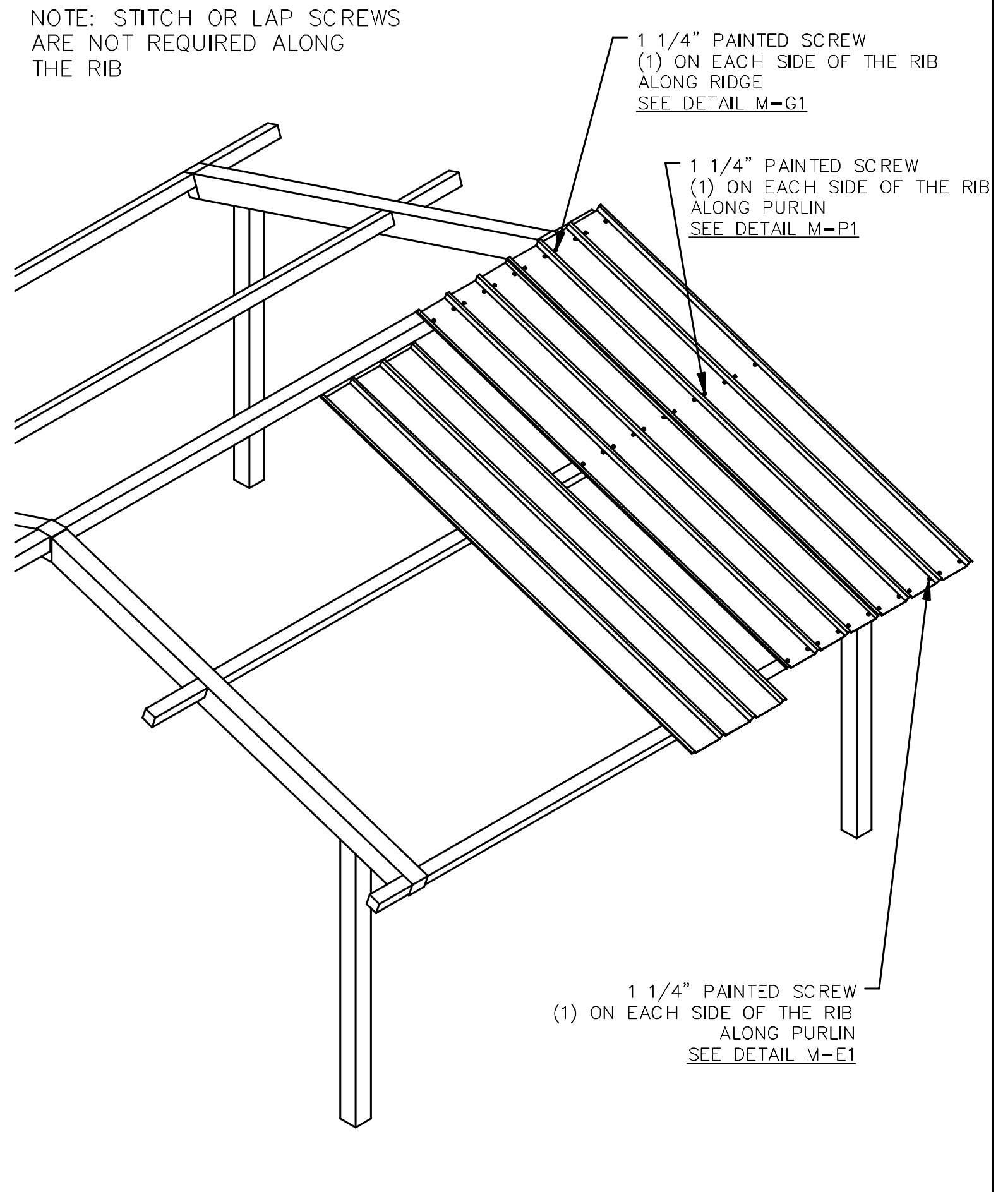
ICON STD	RG/DSA-PC
DRAWN BY	JD
DATE	3/21/2023
REV	
REV DATE	

JRMA
ARCHITECTS ENGINEERS
2700 SATURN ST I BREA, CA 92821
T. 714.524.1870 I F. 714.524.1875
WWW.JRMA.COM

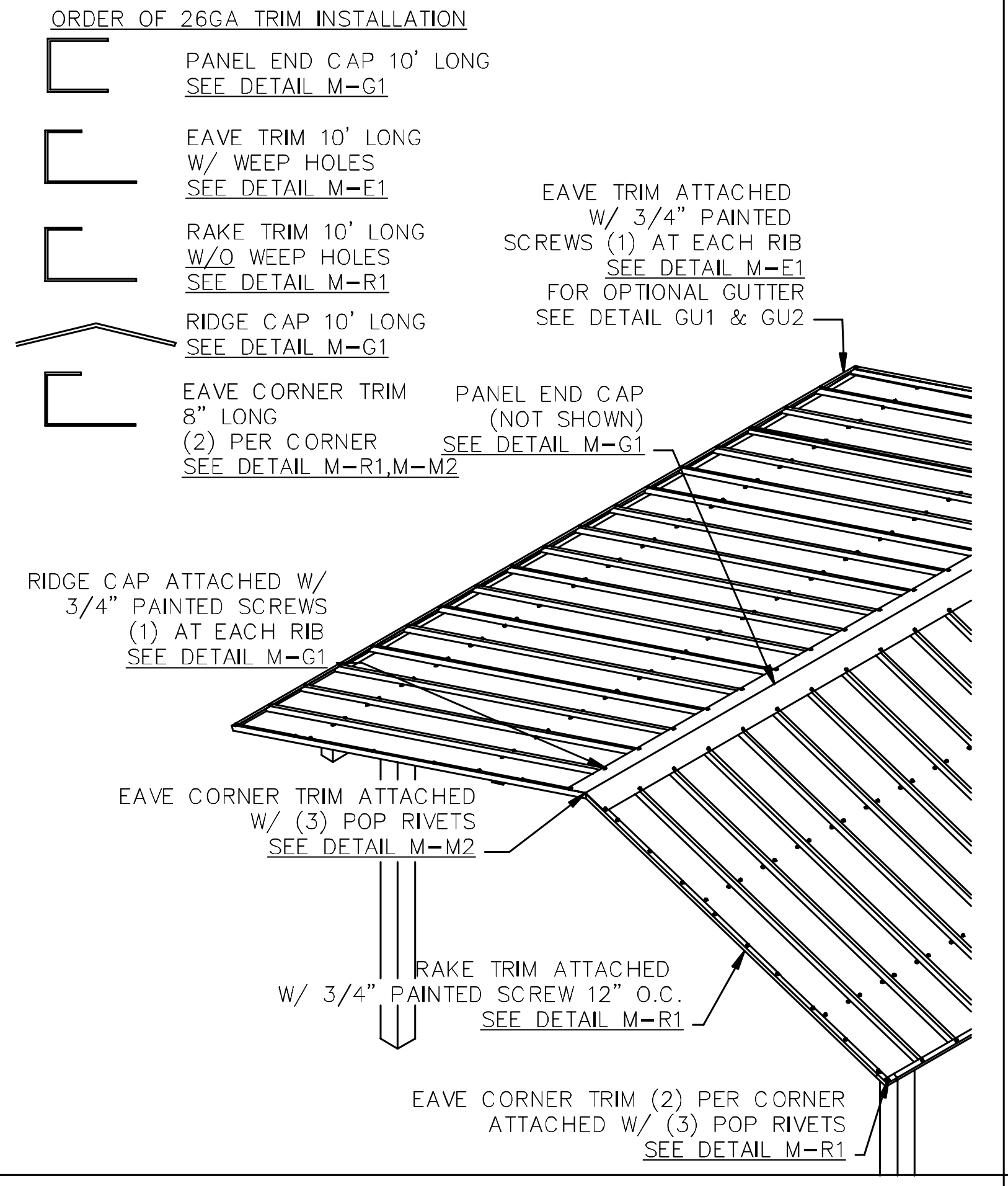
S4092

Aug 31, 2023

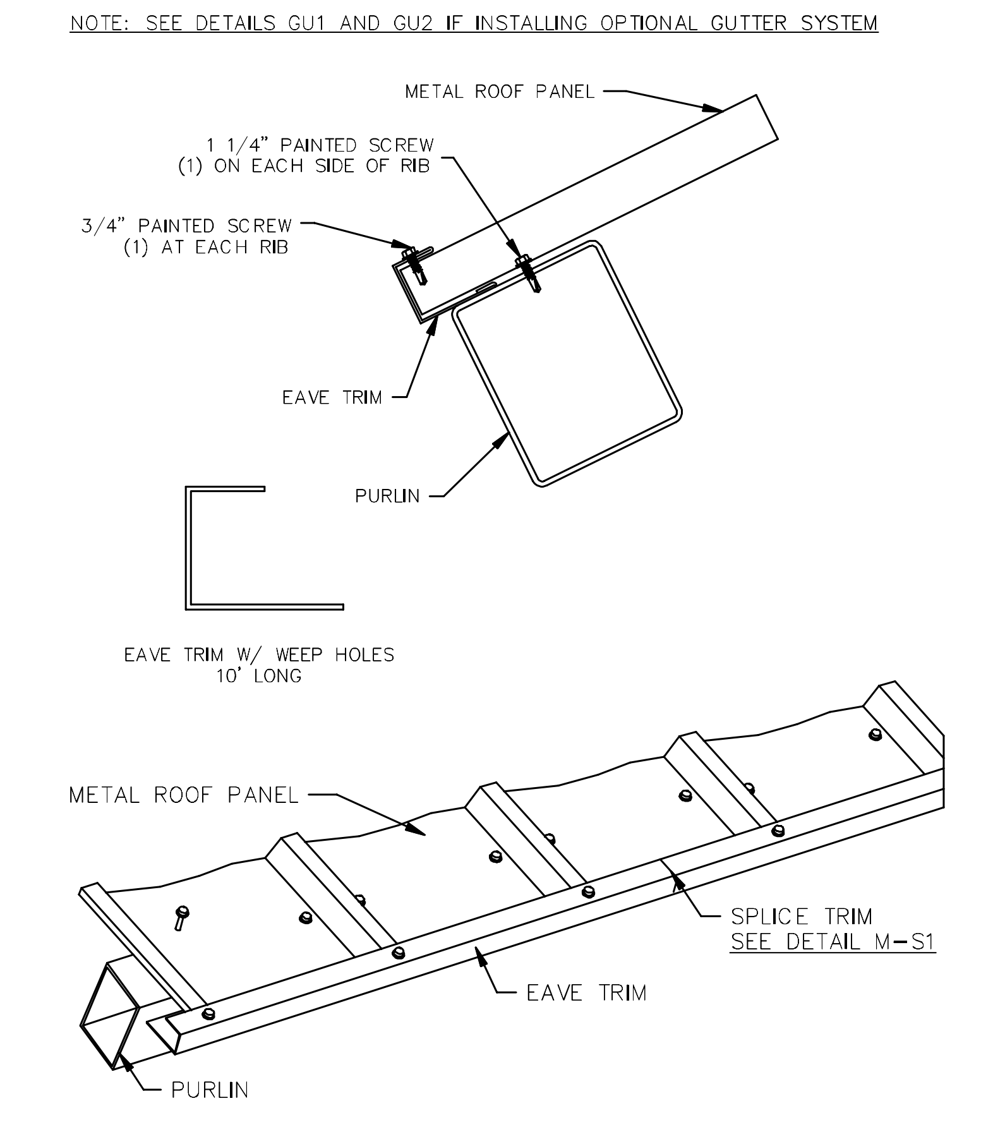
30' WIDE RECTANGULAR GABLE MULTI RIB ROOFING


NOTE: STITCH OR LAP SCREWS ARE NOT REQUIRED ALONG THE RIB
1 1/4" PAINTED SCREW (1) ON EACH SIDE OF THE RIB ALONG RIDGE SEE DETAIL M-G1
1 1/4" PAINTED SCREW (1) ON EACH SIDE OF THE RIB ALONG PURLIN SEE DETAIL M-P1
1 1/4" PAINTED SCREW (1) ON EACH SIDE OF THE RIB ALONG PURLIN SEE DETAIL M-E1

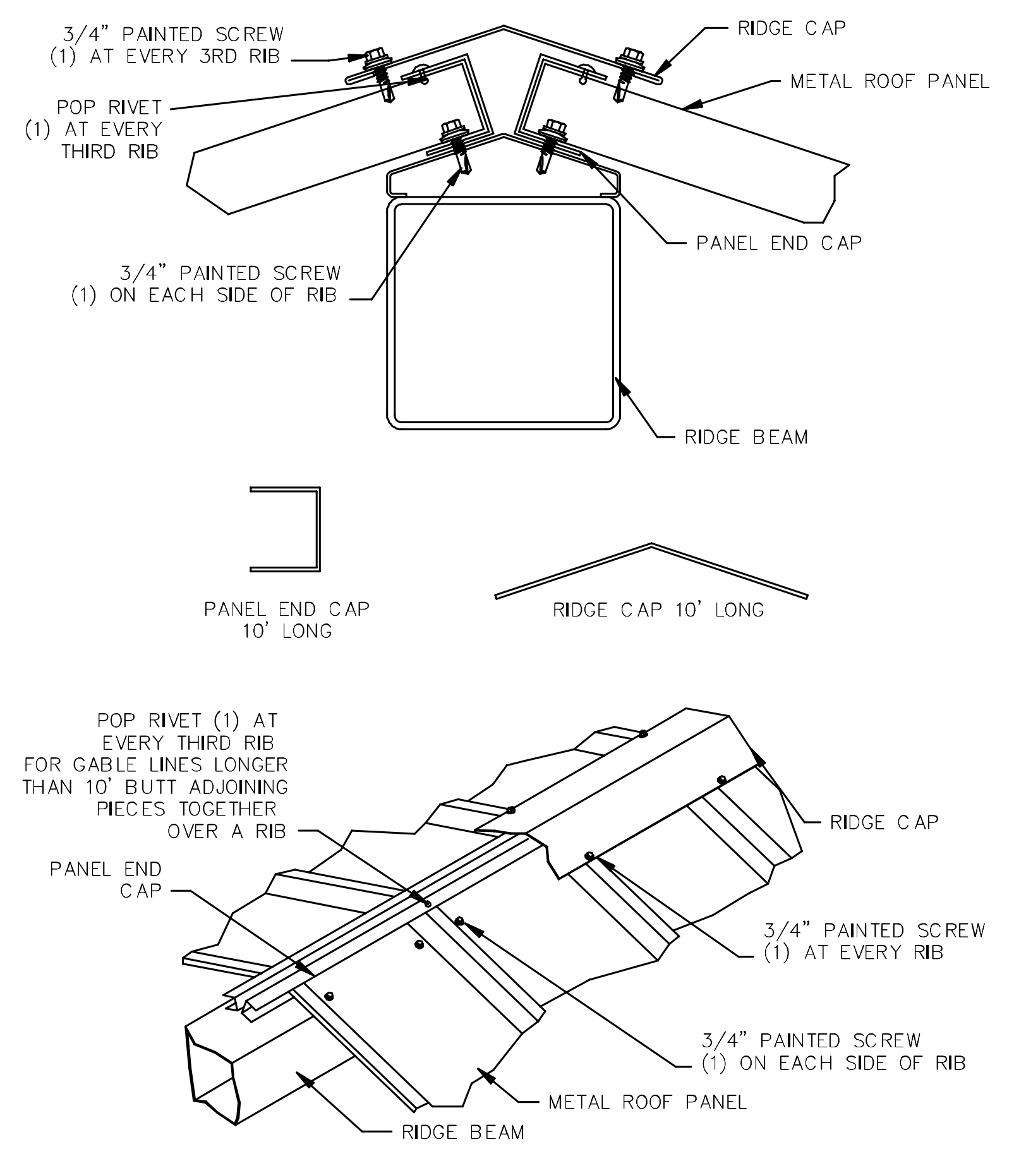
MULTI RIB ROOF INSTALLATION ROOF


ORDER OF 26GA TRIM INSTALLATION
PANEL END CAP 10' LONG SEE DETAIL M-G1
EAVE TRIM 10' LONG W/ WEEP HOLES SEE DETAIL M-E1
RAKE TRIM 10' LONG W/O WEEP HOLES SEE DETAIL M-R1
RIDGE CAP 10' LONG SEE DETAIL M-G1
EAVE CORNER TRIM 8" LONG (2) PER CORNER SEE DETAIL M-R1,M-M2
EAVE TRIM ATTACHED W/ 3/4" PAINTED SCREWS (1) AT EACH RIB SEE DETAIL M-E1 FOR OPTIONAL GUTTER SEE DETAIL GU1 & GU2
PANEL END CAP (NOT SHOWN) SEE DETAIL M-G1
RIDGE CAP ATTACHED W/ 3/4" PAINTED SCREWS (1) AT EACH RIB SEE DETAIL M-G1
EAVE CORNER TRIM ATTACHED W/ (3) POP RIVETS SEE DETAIL M-M2
RAKE TRIM ATTACHED W/ 3/4" PAINTED SCREW 12" O.C. SEE DETAIL M-R1
EAVE CORNER TRIM (2) PER CORNER ATTACHED W/ (3) POP RIVETS SEE DETAIL M-R1

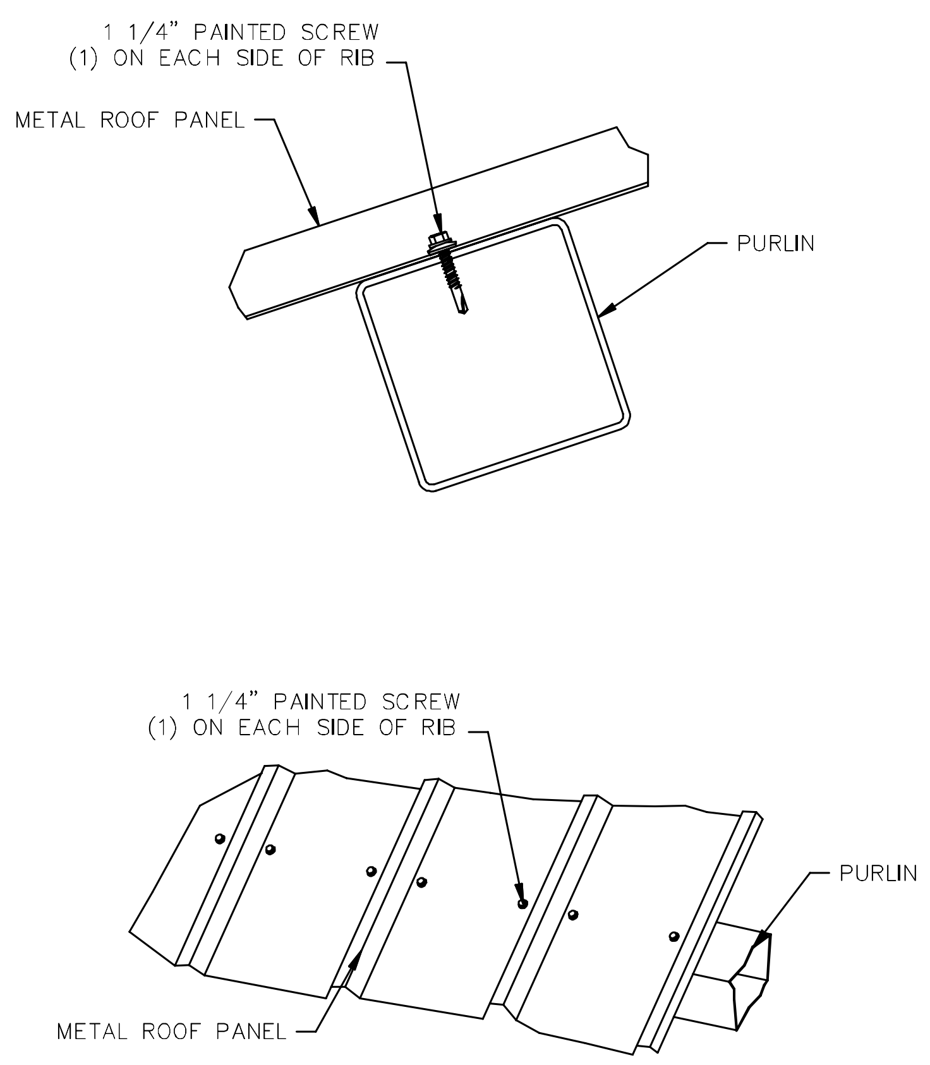
MULTI RIB TRIM INSTALLATION TRIM


NOTE: SEE DETAILS GU1 AND GU2 IF INSTALLING OPTIONAL GUTTER SYSTEM
METAL ROOF PANEL
1 1/4" PAINTED SCREW (1) ON EACH SIDE OF RIB
3/4" PAINTED SCREW (1) AT EACH RIB
EAVE TRIM
PURLIN
EAVE TRIM W/ WEEP HOLES 10' LONG
METAL ROOF PANEL
SPLICE TRIM SEE DETAIL M-S1
EAVE TRIM
PURLIN

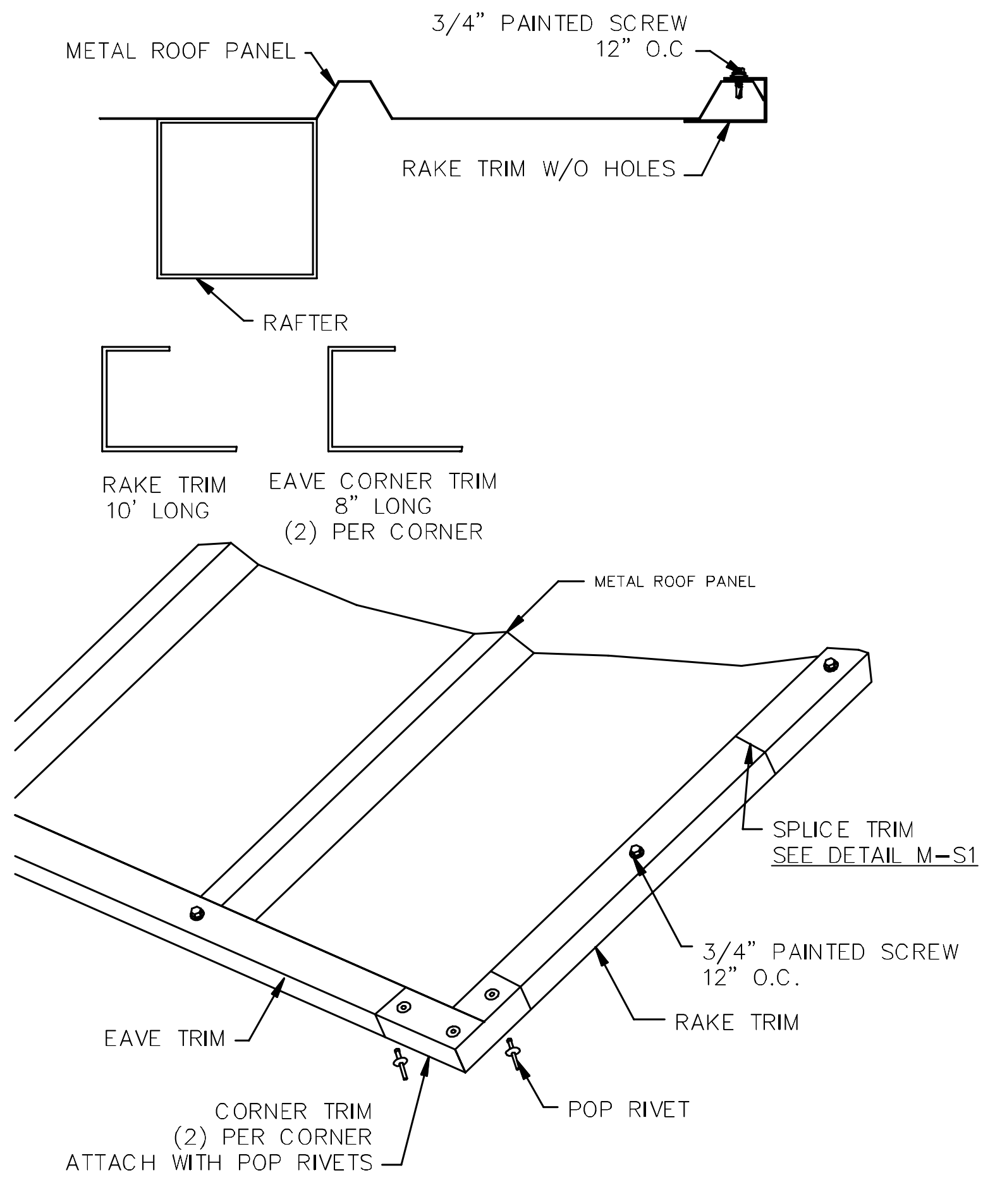
MULTI RIB ROOF EAVE CONNECTION DETAIL M-E1


3/4" PAINTED SCREW (1) AT EVERY 3RD RIB
POP RIVET (1) AT EVERY THIRD RIB
RIDGE CAP
METAL ROOF PANEL
PANEL END CAP
3/4" PAINTED SCREW (1) ON EACH SIDE OF RIB
RIDGE BEAM
PANEL END CAP 10' LONG
RIDGE CAP 10' LONG
POP RIVET (1) AT EVERY THIRD RIB FOR GABLE LINES LONGER THAN 10' BUTT ADJOINING PIECES TOGETHER OVER A RIB
PANEL END CAP
RIDGE CAP
3/4" PAINTED SCREW (1) AT EVERY RIB
3/4" PAINTED SCREW (1) ON EACH SIDE OF RIB
METAL ROOF PANEL
RIDGE BEAM

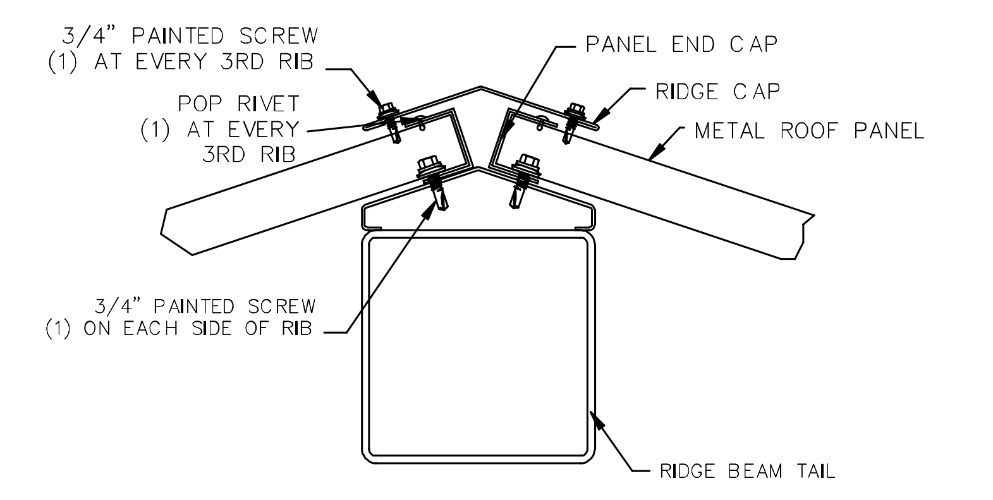
MULTI RIB ROOF CONNECTION AT RIDGE M-G1


1 1/4" PAINTED SCREW (1) ON EACH SIDE OF RIB
METAL ROOF PANEL
PURLIN
1 1/4" PAINTED SCREW (1) ON EACH SIDE OF RIB
PURLIN
METAL ROOF PANEL

MULTI RIB ROOF CONNECTION AT PURLIN M-P1


METAL ROOF PANEL
3/4" PAINTED SCREW 12" O.C
RAKE TRIM W/O HOLES
RAFTER
RAKE TRIM 10' LONG
EAVE CORNER TRIM 8" LONG (2) PER CORNER
METAL ROOF PANEL
SPLICE TRIM SEE DETAIL M-S1
3/4" PAINTED SCREW 12" O.C.
RAKE TRIM
EAVE TRIM
POP RIVET
CORNER TRIM (2) PER CORNER ATTACH WITH POP RIVETS

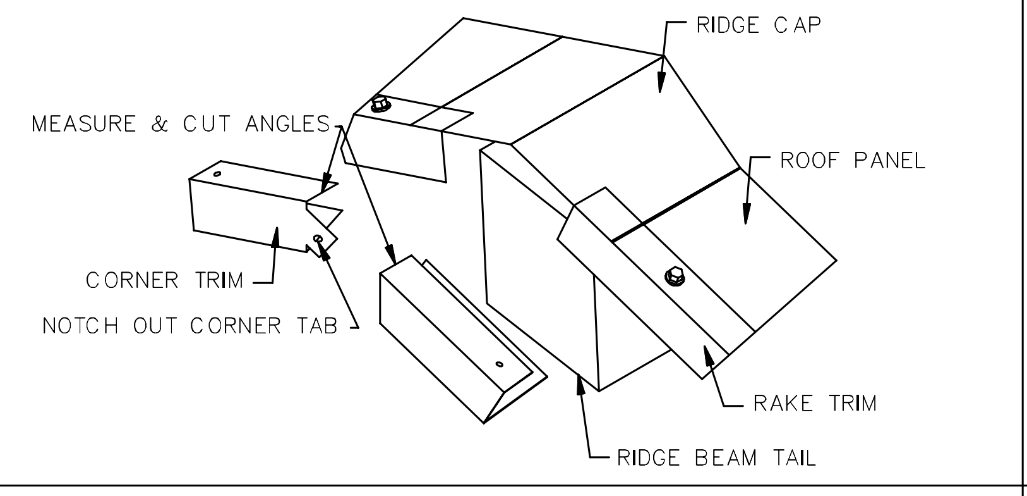
MULTI RIB ROOF CONNECTION AT RAKE M-R1


3/4" PAINTED SCREW (1) AT EVERY 3RD RIB
POP RIVET (1) AT EVERY 3RD RIB
PANEL END CAP
RIDGE CAP
METAL ROOF PANEL
3/4" PAINTED SCREW (1) ON EACH SIDE OF RIB
RIDGE BEAM TAIL

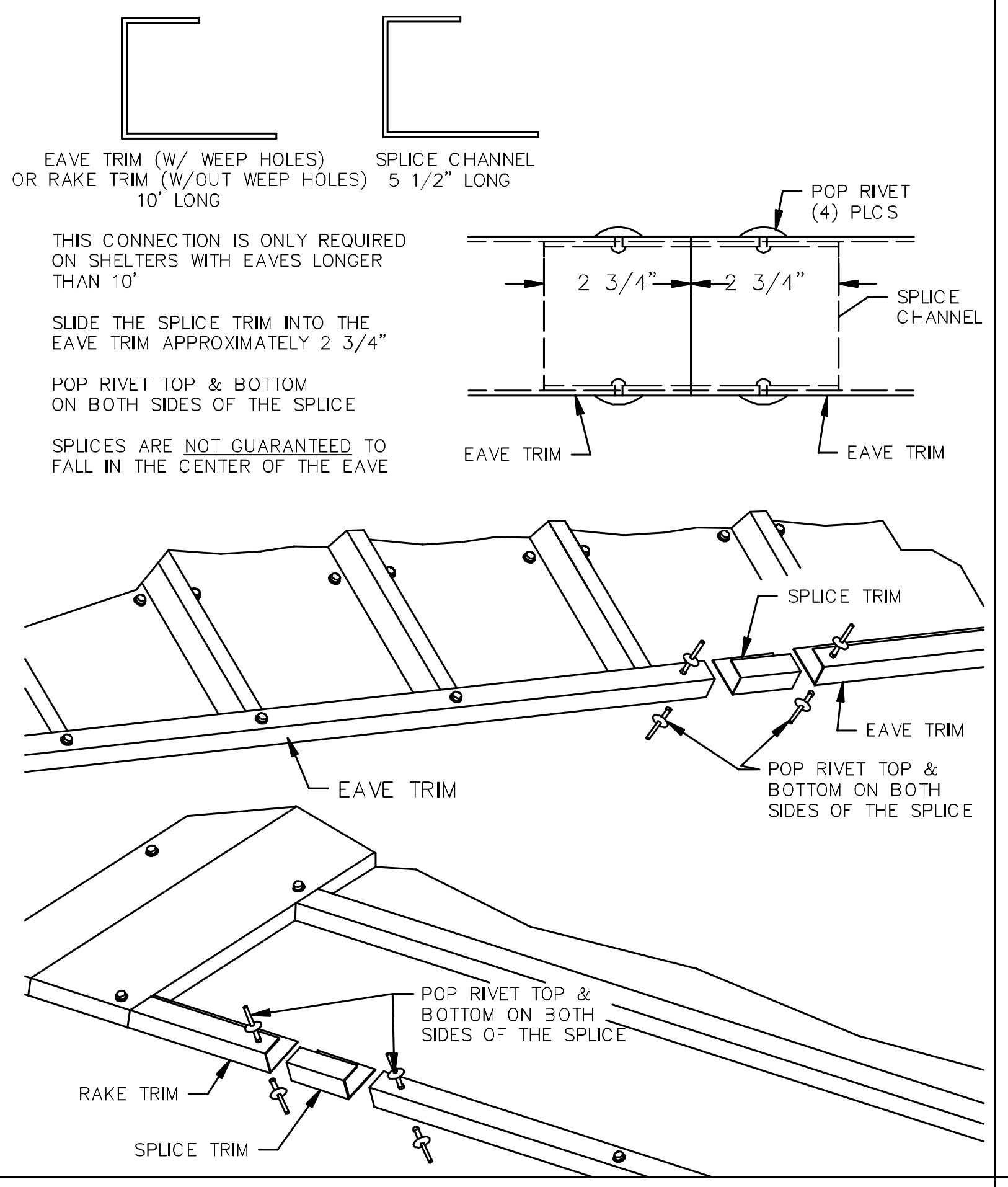
CUT A MITER AND CORNER TAB ON (1) OF THE CORNER PIECES
CUT AN OPTIONAL MITER ON THE SECOND CORNER PIECE

SLIDE THE CORNER TRIM OVER THE RAKE TRIM AND RIDGE CAP

THEN ATTACH THE TRIM WITH POP RIVETS TO THE EAVE TRIM



MULTI RIB ROOF CORNER CONNECTION DETAIL M-M2


EAVE TRIM (W/ WEEP HOLES) OR RAKE TRIM (W/OUT WEEP HOLES) 10' LONG
SPLICE CHANNEL 5 1/2" LONG
POP RIVET (4) PLCS
2 3/4"
2 3/4"
SPLICE CHANNEL
EAVE TRIM
EAVE TRIM
SPLICE TRIM
EAVE TRIM
EAVE TRIM
POP RIVET TOP & BOTTOM ON BOTH SIDES OF THE SPLICE
POP RIVET TOP & BOTTOM ON BOTH SIDES OF THE SPLICE
RAKE TRIM
SPLICE TRIM

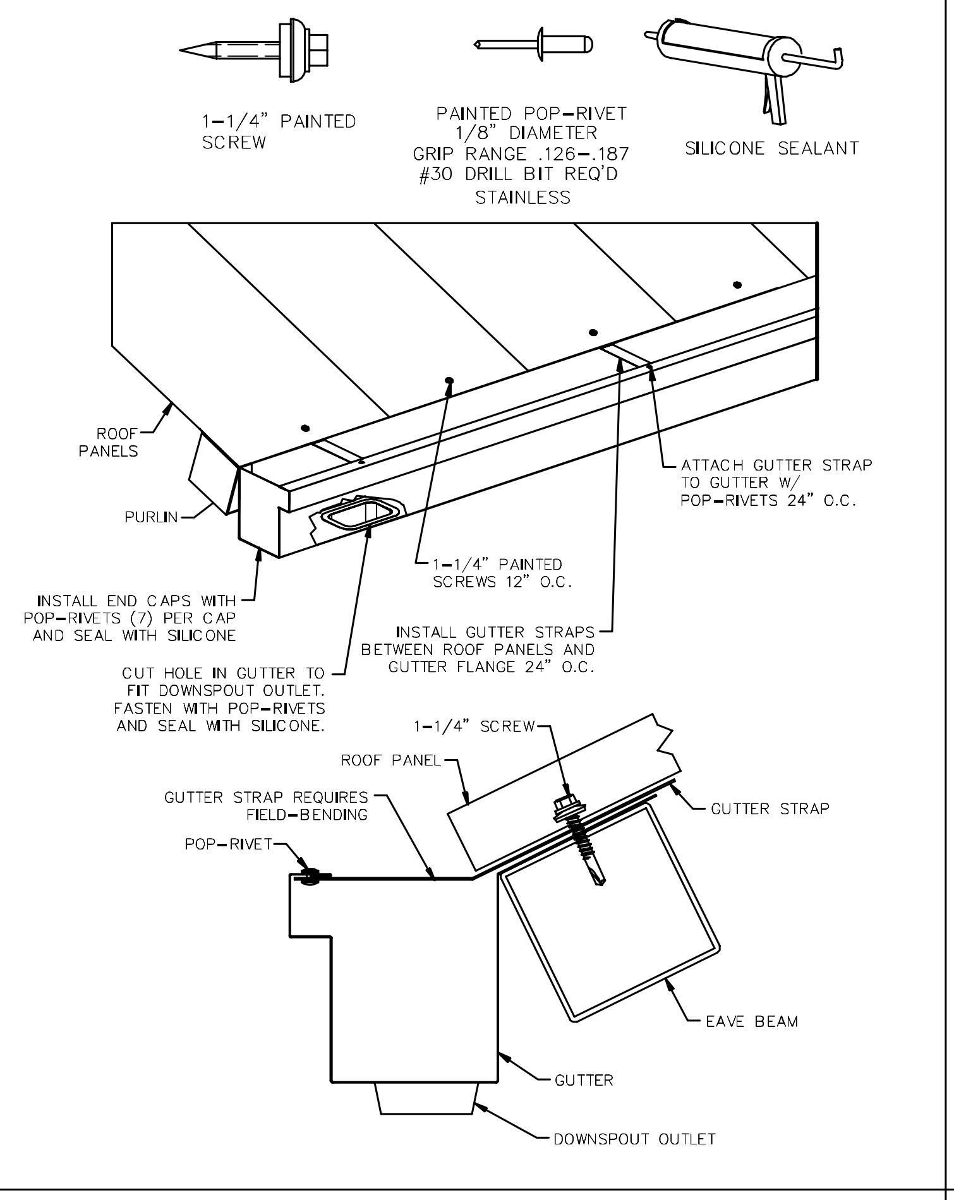
THIS CONNECTION IS ONLY REQUIRED ON SHELTERS WITH EAVES LONGER THAN 10'

SLIDE THE SPLICE TRIM INTO THE EAVE TRIM APPROXIMATELY 2 3/4"

POP RIVET TOP & BOTTOM ON BOTH SIDES OF THE SPLICE

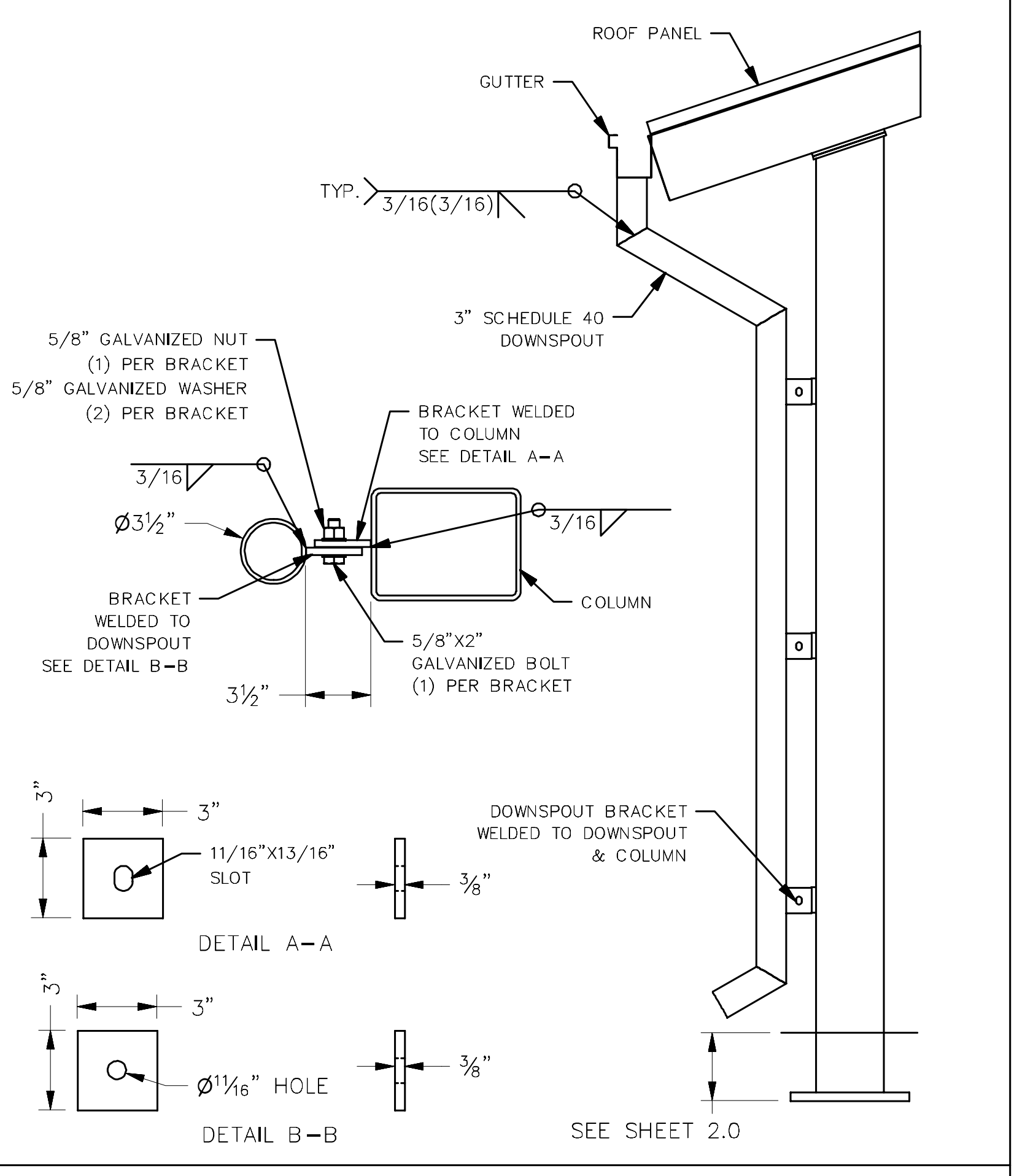
SPLICES ARE NOT GUARANTEED TO FALL IN THE CENTER OF THE EAVE

MULTI RIB ROOF SPLICE CONNECTION DETAIL M-S1


1-1/4" PAINTED SCREW
PAINTED POP-RIVET 1/8" DIAMETER GRIP RANGE .126-.187 #30 DRILL BIT REQ'D STAINLESS
SILICONE SEALANT
ROOF PANELS
PURLIN
ATTACH GUTTER STRAP TO GUTTER W/ POP-RIVETS 24" O.C.
1-1/4" PAINTED SCREWS 12" O.C.
INSTALL END CAPS WITH POP-RIVETS (7) PER CAP AND SEAL WITH SILICONE
INSTALL GUTTER STRAPS BETWEEN ROOF PANELS AND GUTTER FLANGE 24" O.C.
CUT HOLE IN GUTTER TO FIT DOWNSPOUT OUTLET. FASTEN WITH POP-RIVETS AND SEAL WITH SILICONE.
1-1/4" SCREW
ROOF PANEL
GUTTER STRAP REQUIRES FIELD-BENDING
POP-RIVET
GUTTER STRAP
EAVE BEAM
GUTTER
DOWNSPOUT OUTLET

OPTIONAL GUTTER INSTALLATION GU1

MULTI RIB ROOF


ROOF PANEL
GUTTER
TYP.
3/16(3/16)
3" SCHEDULE 40 DOWNSPOUT
5/8" GALVANIZED NUT (1) PER BRACKET
5/8" GALVANIZED WASHER (2) PER BRACKET
BRACKET WELDED TO COLUMN SEE DETAIL A-A
3/16
Ø3½"
3/16
BRACKET WELDED TO DOWNSPOUT SEE DETAIL B-B
COLUMN
5/8"X2" GALVANIZED BOLT (1) PER BRACKET
3½"
3"
3"
11/16"X13/16" SLOT
⅜"
DETAIL A-A
3"
3"
Ø11/16" HOLE
⅜"
DETAIL B-B
DOWNSPOUT BRACKET WELDED TO DOWNSPOUT & COLUMN
SEE SHEET 2.0

OPTIONAL GUTTER SECTION GU2

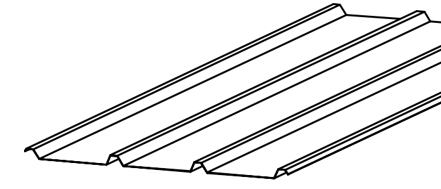
MULTI RIB ROOF

ROOF NOTES

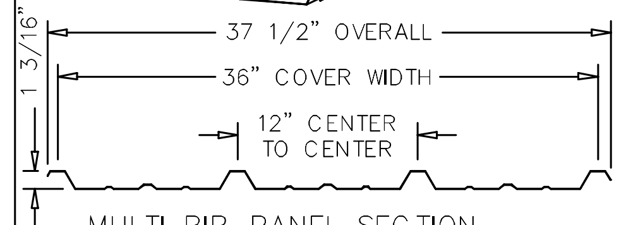
ATTENTION INSTALLERS:
METAL SHAVINGS LEFT ON ROOF WILL QUICKLY RUST AND STAIN THE ROOF FINISH!

DRILLING OR INSTALLING ROOF FASTENERS WILL CAUSE METAL SHAVINGS. THESE SHAVINGS MUST BE CAREFULLY REMOVED AT THE END OF EACH DAY BY EITHER SWEEPING OR BRUSHING THE INSTALLED ROOF.

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122188 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/21/2023



CLASS A ROOFING

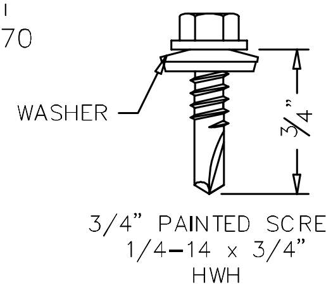


MULTI RIB PANEL SECTION
24 ga. Fy=50 ksi Fu=65ksi
UES EVALUATION REPORT #270

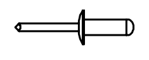
SECTION PROPERTIES
(PER FT. OF WIDTH)

TOP IN COMPRESSION
Ix=0.050 in^4
Se=0.055 in^3
Ma=1.375 in-kips

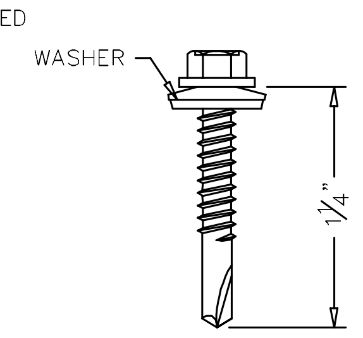
BOTTOM IN COMPRESSION
Ix=0.029 in^4
Se=0.046 in^3
Ma=1.148 in-kips



3/4" PAINTED SCREW
1/4-14 x 3/4"
HWH
ICC ESR-1976
HOT DIP GALVANIZED



PAINTED POP-RIVET
1/8" DIAMETER
GRIP RANGE .126-.187
#30 DRILL BIT REQ'D
STAINLESS



1 1/4" PAINTED SCREW
12-14 x 1 1/4"
HWH
ICC ESR-1976
HOT DIP GALVANIZED

INSTALLED CORRECTLY	INSTALLED TOO TIGHT	INSTALLED TOO LOOSE
THE SEALING MATERIAL SLIGHTLY VISIBLE AROUND THE METAL WASHER	THE SEALING MATERIAL IS DEFORMED BEYOND THE EDGE OF THE METAL WASHER	THE SEALING MATERIAL IS NOT VISIBLE AROUND THE EDGE OF THE METAL WASHER

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ERECTORS SHALL BE RESPONSIBLE TO ENSURE THAT THE DETAILS MEET PARTICULAR BUILDING REQUIREMENTS AND TO ASSURE ADEQUATE WATER TIGHTNESS.

FOR THE BEST APPEARANCE ALL TRIM AND FLASHING SHALL BE INSTALLED TRUE, AND IN PROPER ALIGNMENT, WITH ALL EXPOSED FASTENERS EQUALLY SPACED.

SOME FIELD CUTTING AND/OR FITTING OF PANELS, TRIM AND FLASHING IS TO BE EXPECTED BY THE ERECTOR. MINOR FIELD CORRECTIONS ARE PART OF NORMAL ERECTION WORK.

THE INSTALLATION SHALL BE PERFORMED BY EXPERIENCED METAL CRAFTSMEN AND WORKMANSHIP SHALL MEET THE BEST INDUSTRY STANDARDS.

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

30' WIDE
RECTANGULAR GABLE
MULTI RIB ROOFING
PLAN

ICON Shelter Systems Inc

DISTINCTIVE STEEL SHELTERS
WWW.ICONSHELTERS.COM

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1455 LINCOLN AVE
HOLLAND MI, 49423

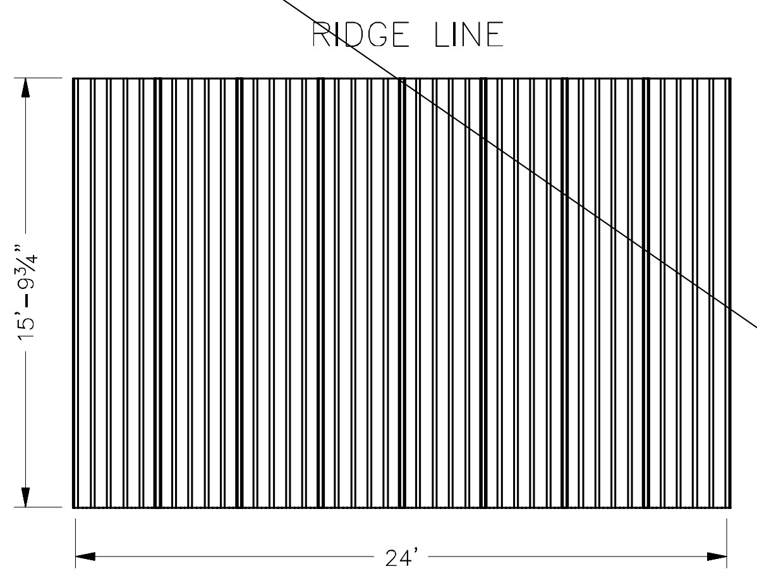
616.396.0919
800.748.0985
616.396.0944 FX

LS3.2

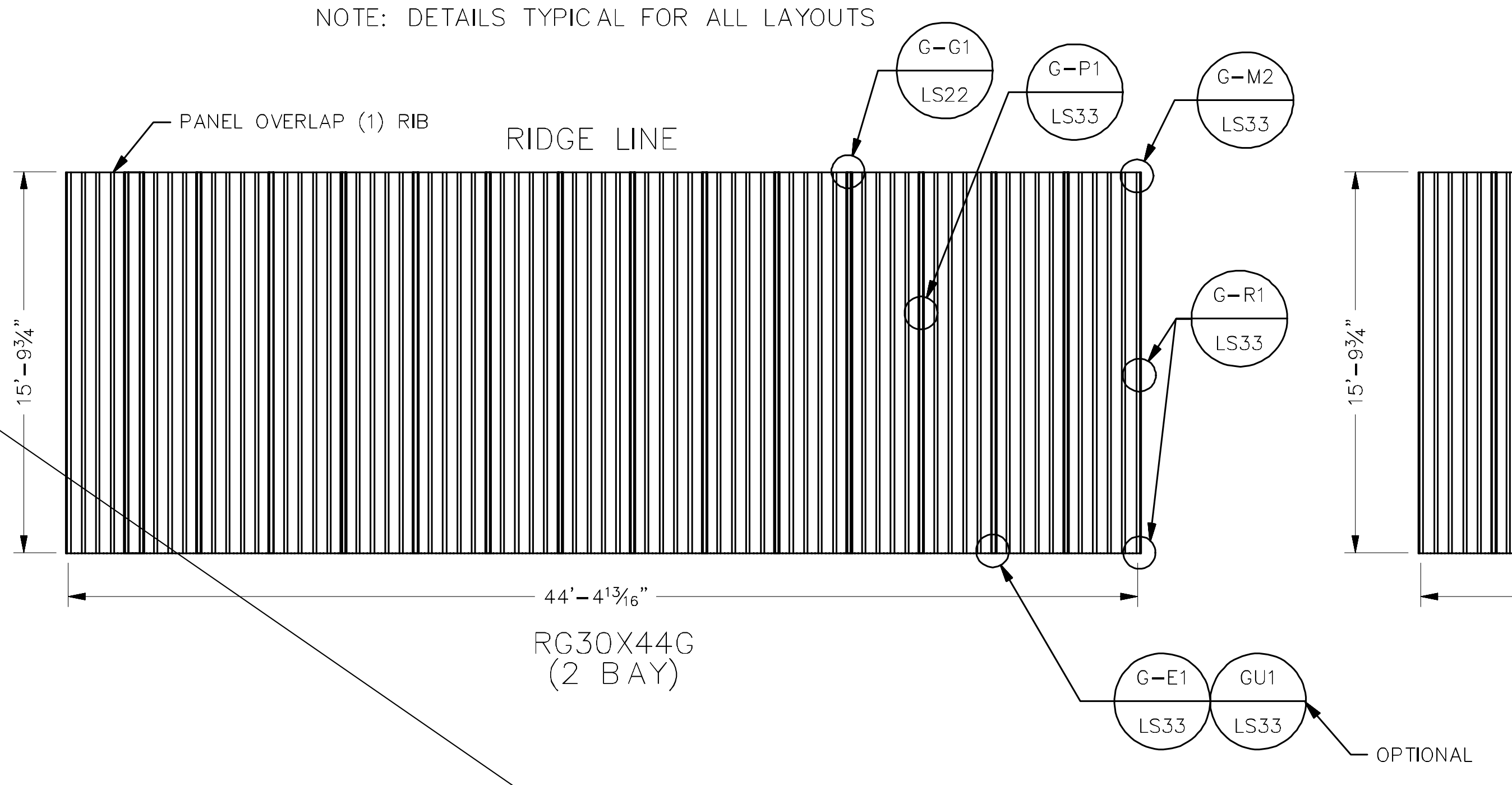
S:\Engineering\Inventor\iStandard Parts\ROOF PARTS\EAVE TRIM.ipt

PRINTED ON :

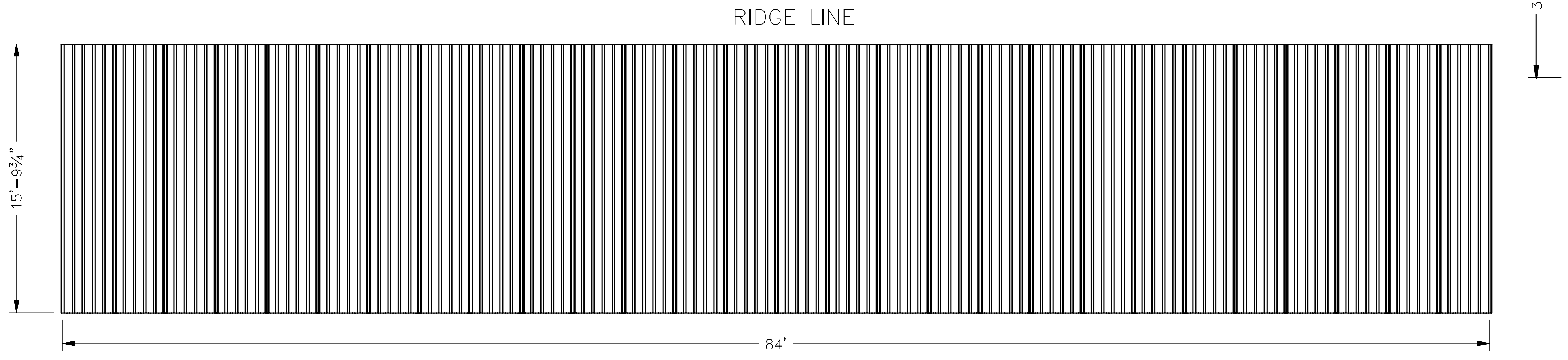
NOTE: DETAILS TYPICAL FOR ALL LAYOUTS



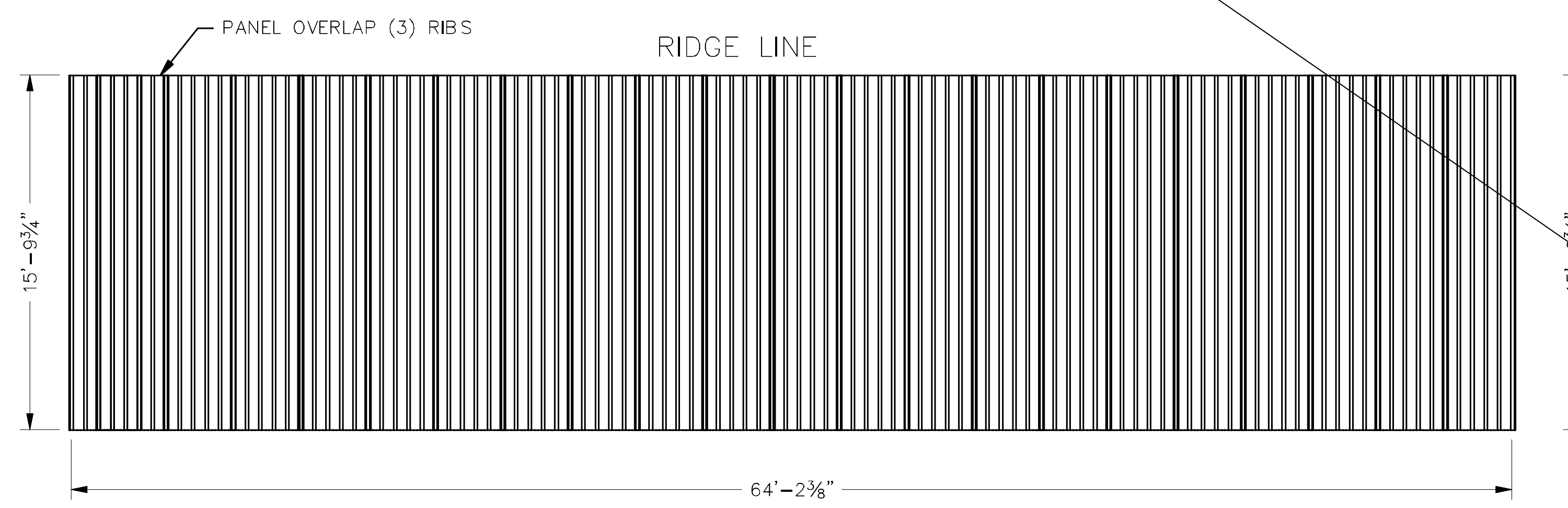
RG30X24G
(1 BAY)



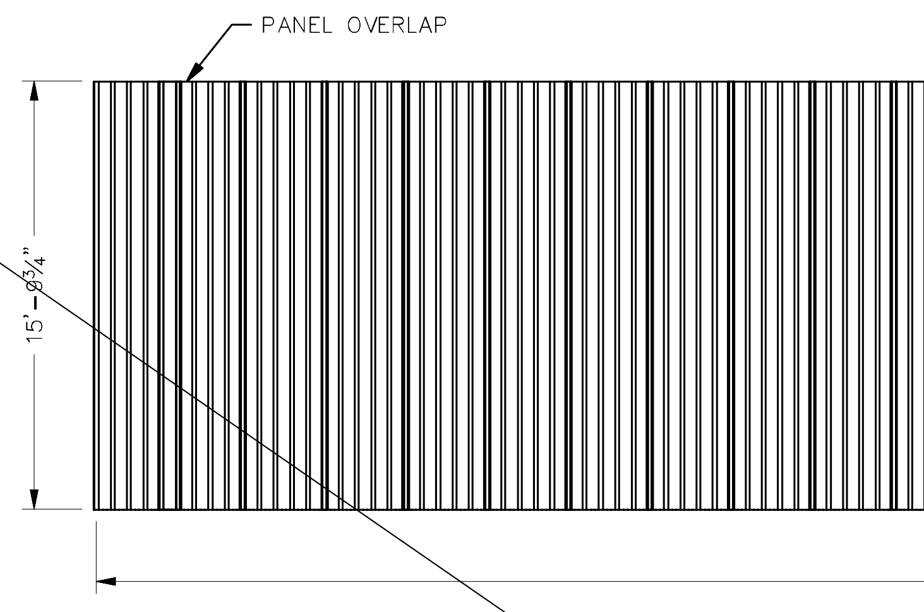
RG30X44G
(2 BAY)



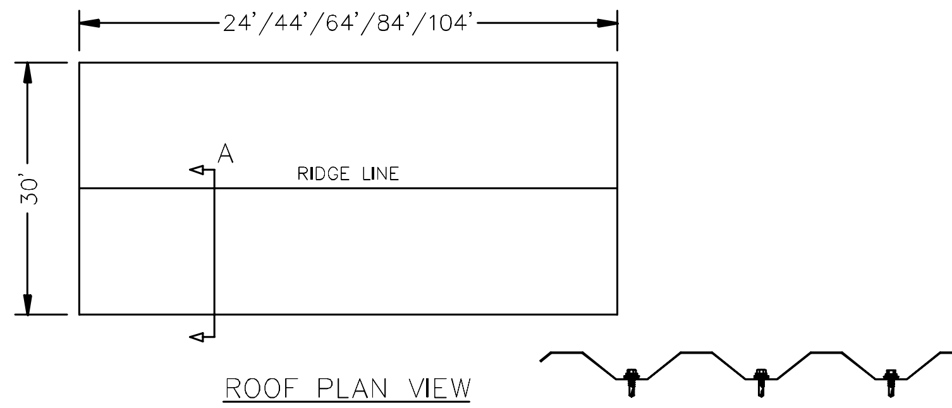
RG30X84G
(4 BAY)



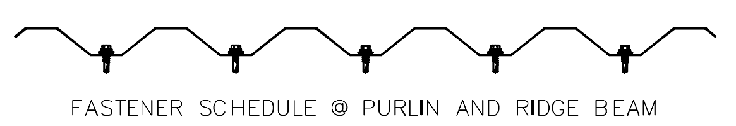
RG30X64G
(3 BAY)



RG30X104G
(5 BAY)

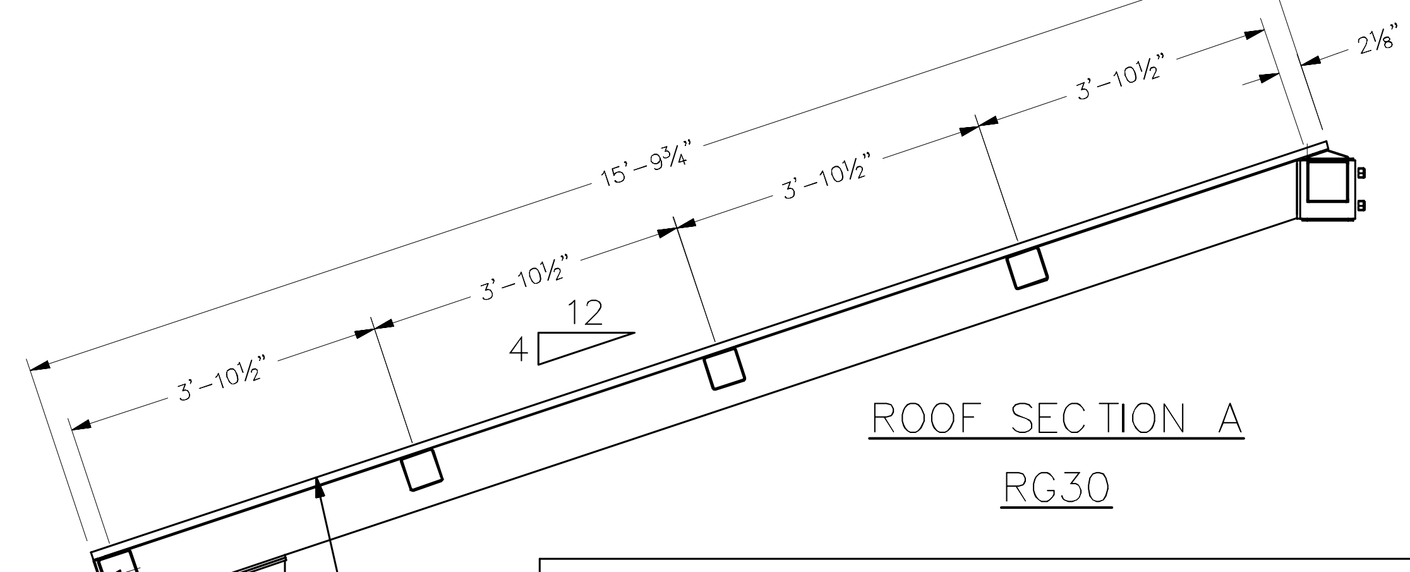


ROOF PLAN VIEW

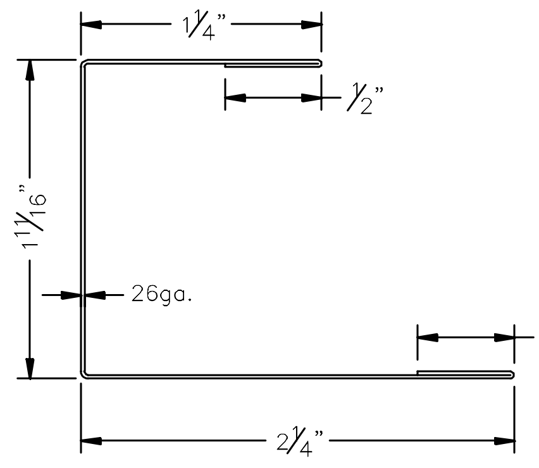


FASTENER SCHEDULE @ PURLIN AND RIDGE BEAM

FASTENER SCHEDULE
NOT TO SCALE



ROOF SECTION A
RG30

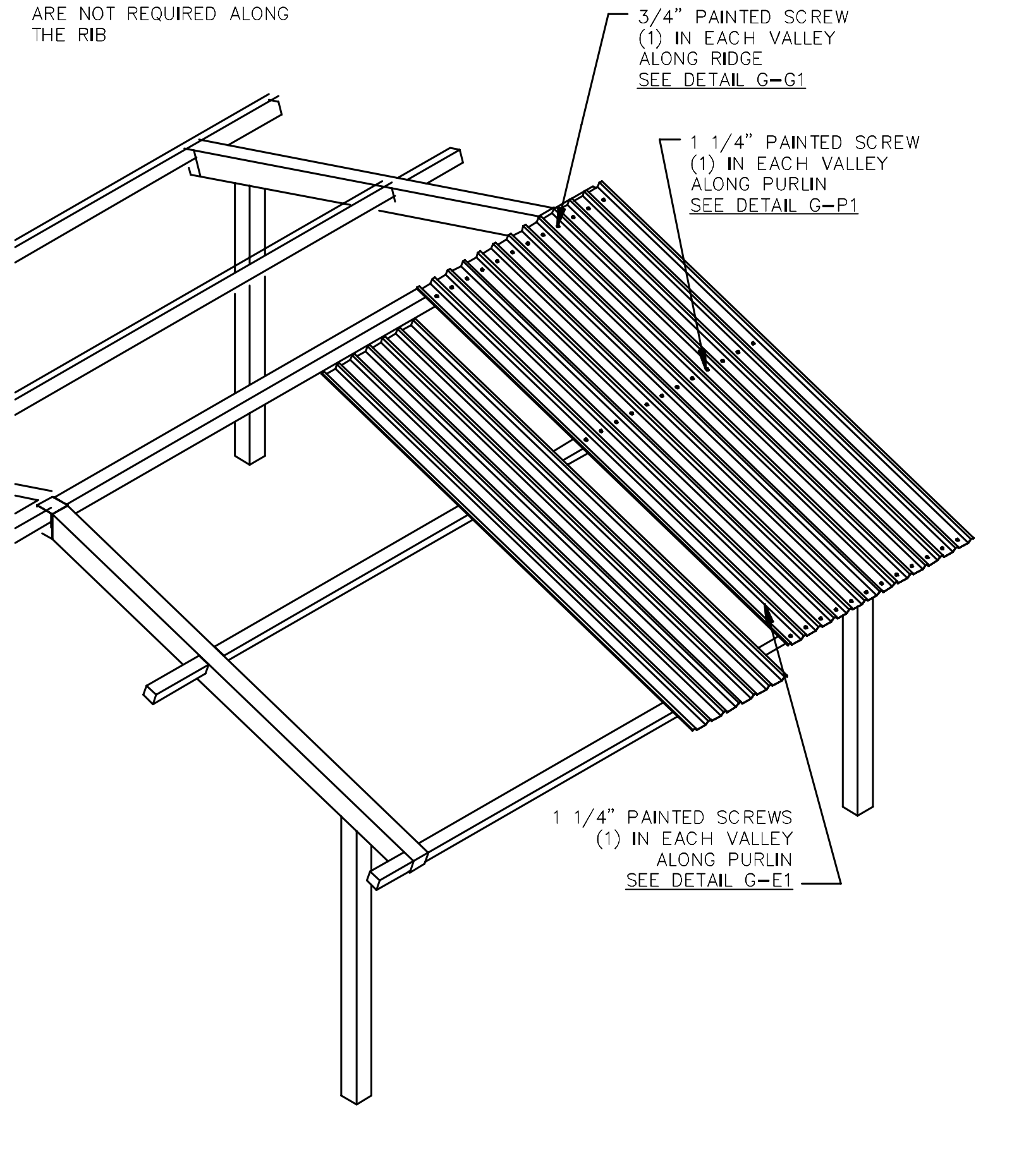


SECTION PROPERTIES
Fy = 50 ksi
A=0.092 in^2
Ix=0.028 in^4
Iy=0.061 in^4
Sx=0.024 in^3
Sy=0.056 in^3

MEGA RIB EAVE TRIM ①

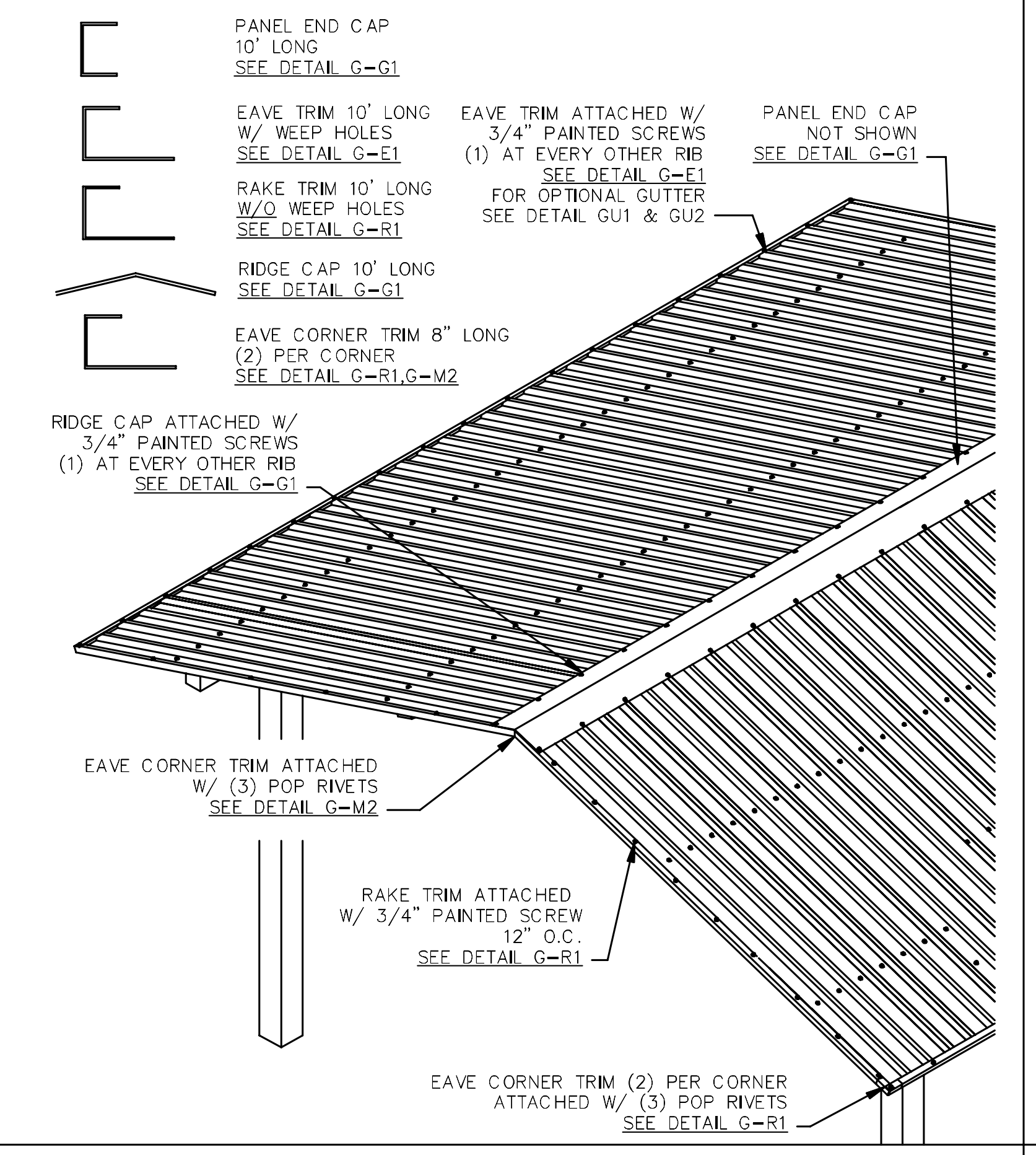
30' WIDE RECTANGULAR GABLE MULTI RIB ROOFING

NOTE: STITCH OR LAP SCREWS ARE NOT REQUIRED ALONG THE RIB



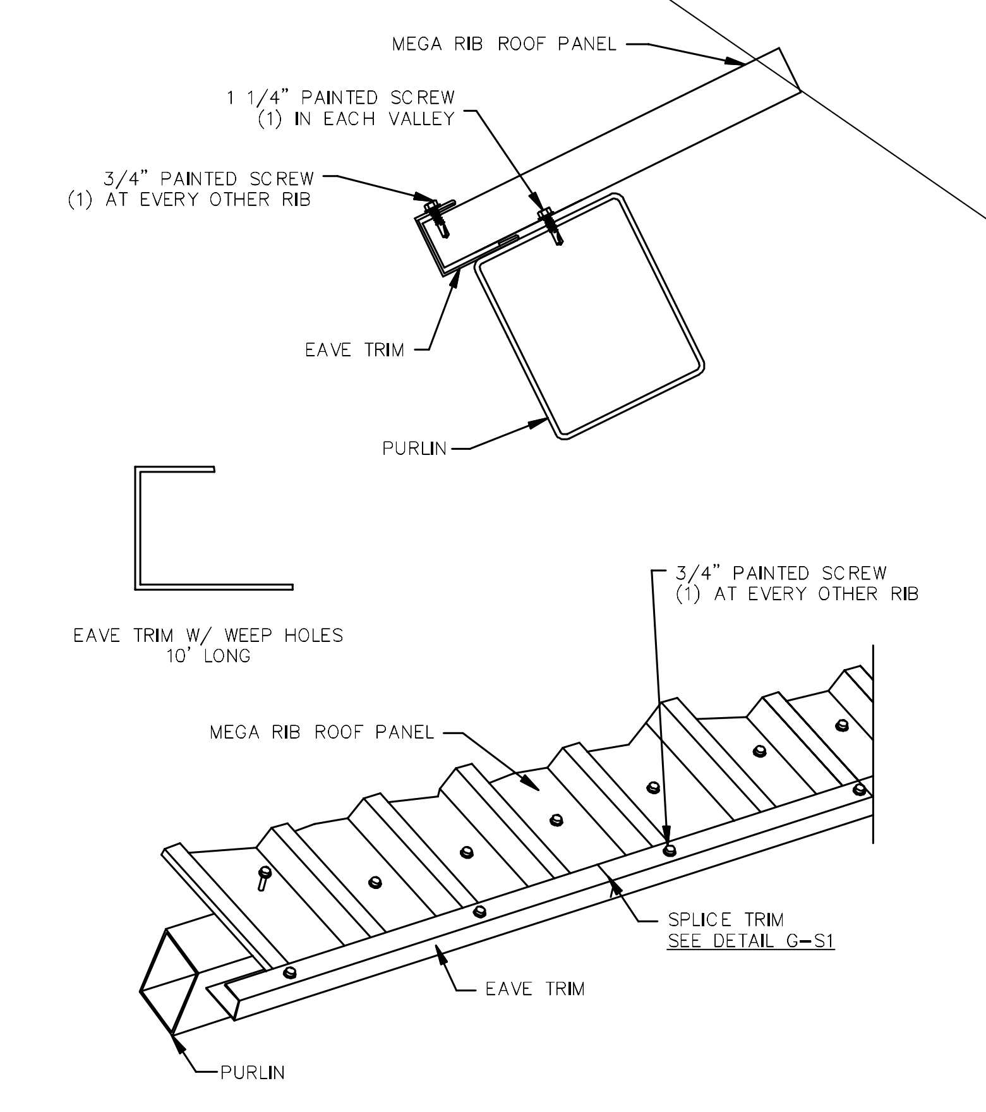
MEGA RIB ROOF INSTALLATION ROOF

ORDER OF INSTALLATION

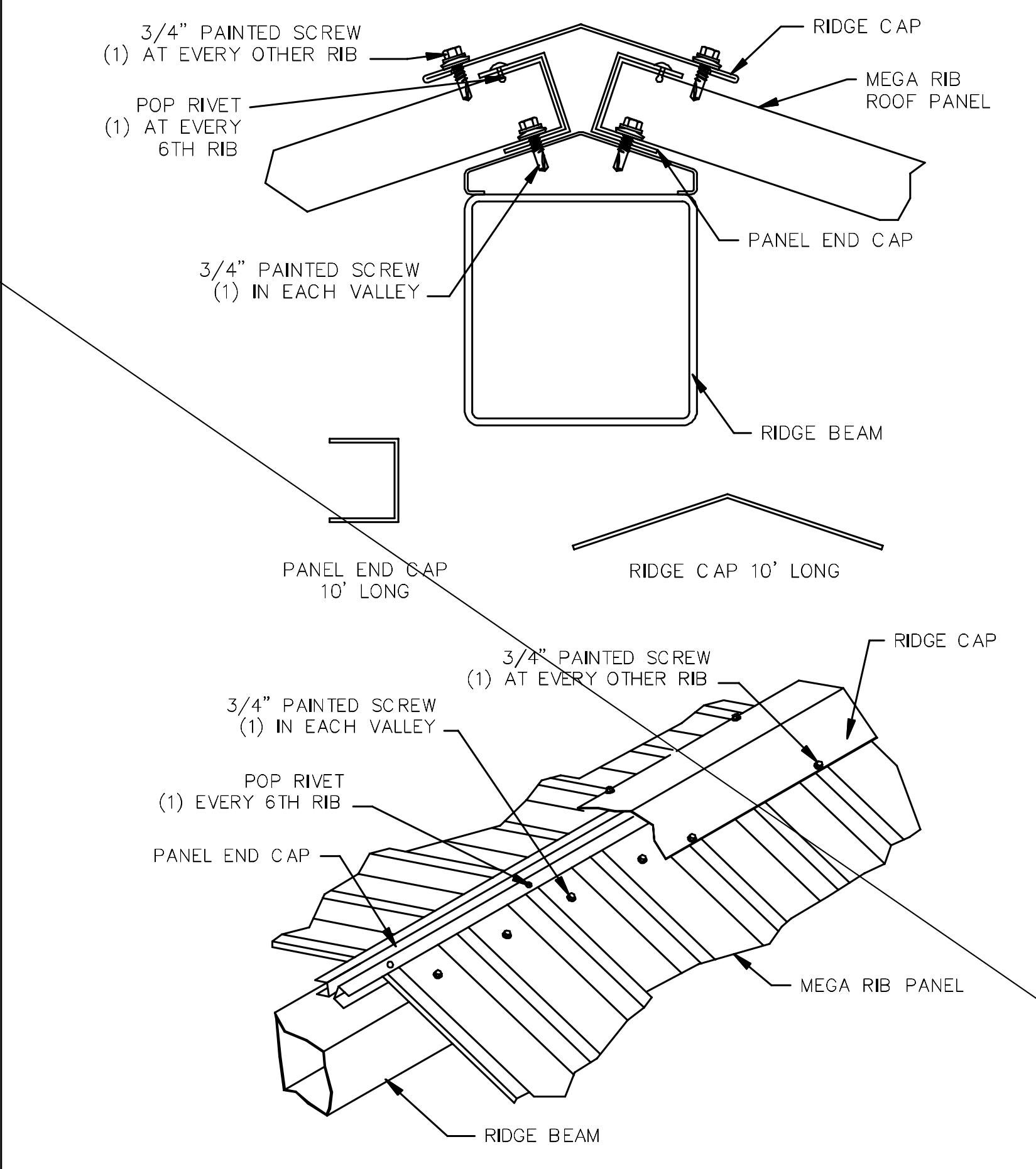


MEGA RIB TRIM INSTALLATION TRIM

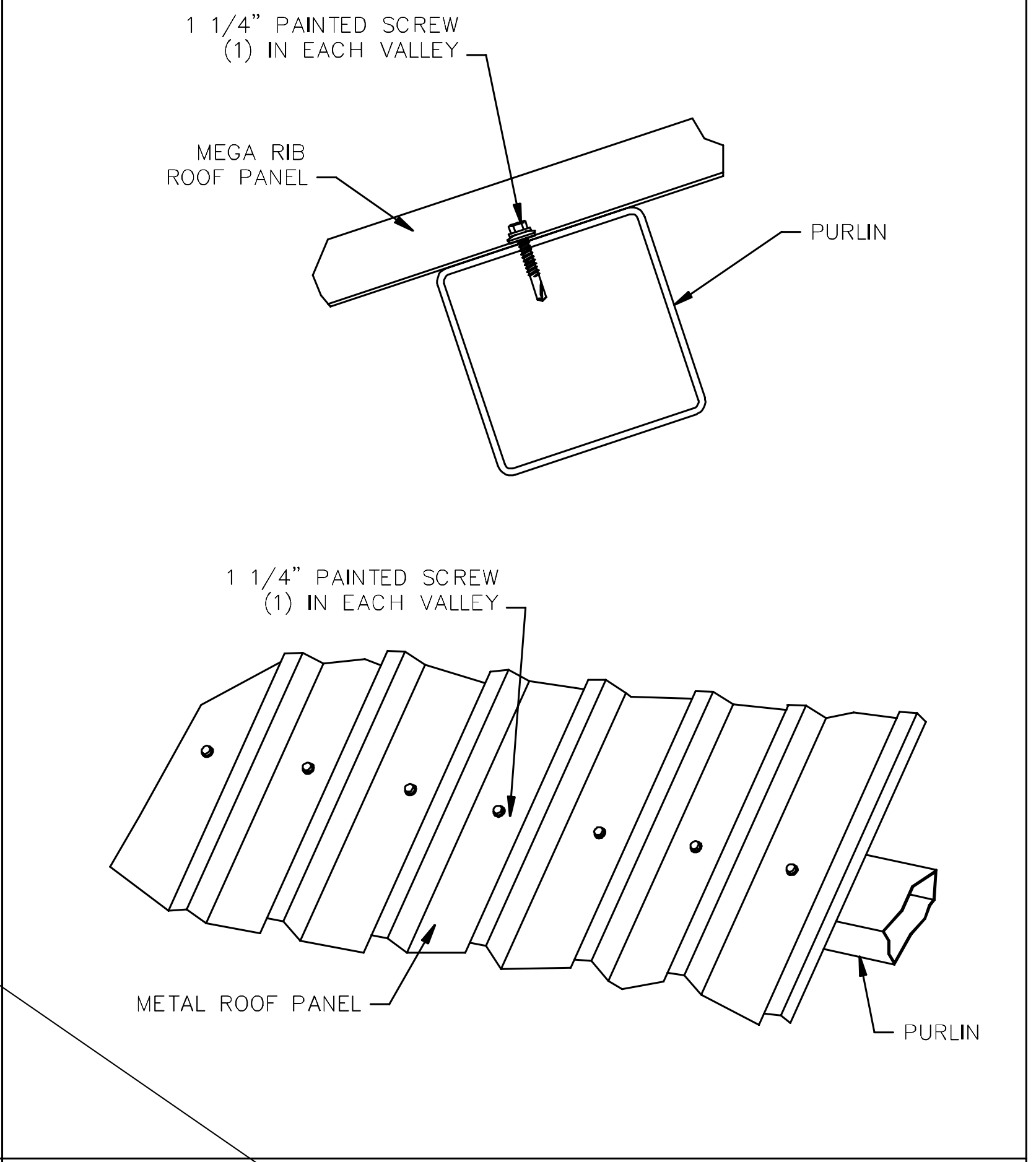
NOTE: SEE DETAILS GU1 AND GU2 IF INSTALLING OPTIONAL GUTTER SYSTEM



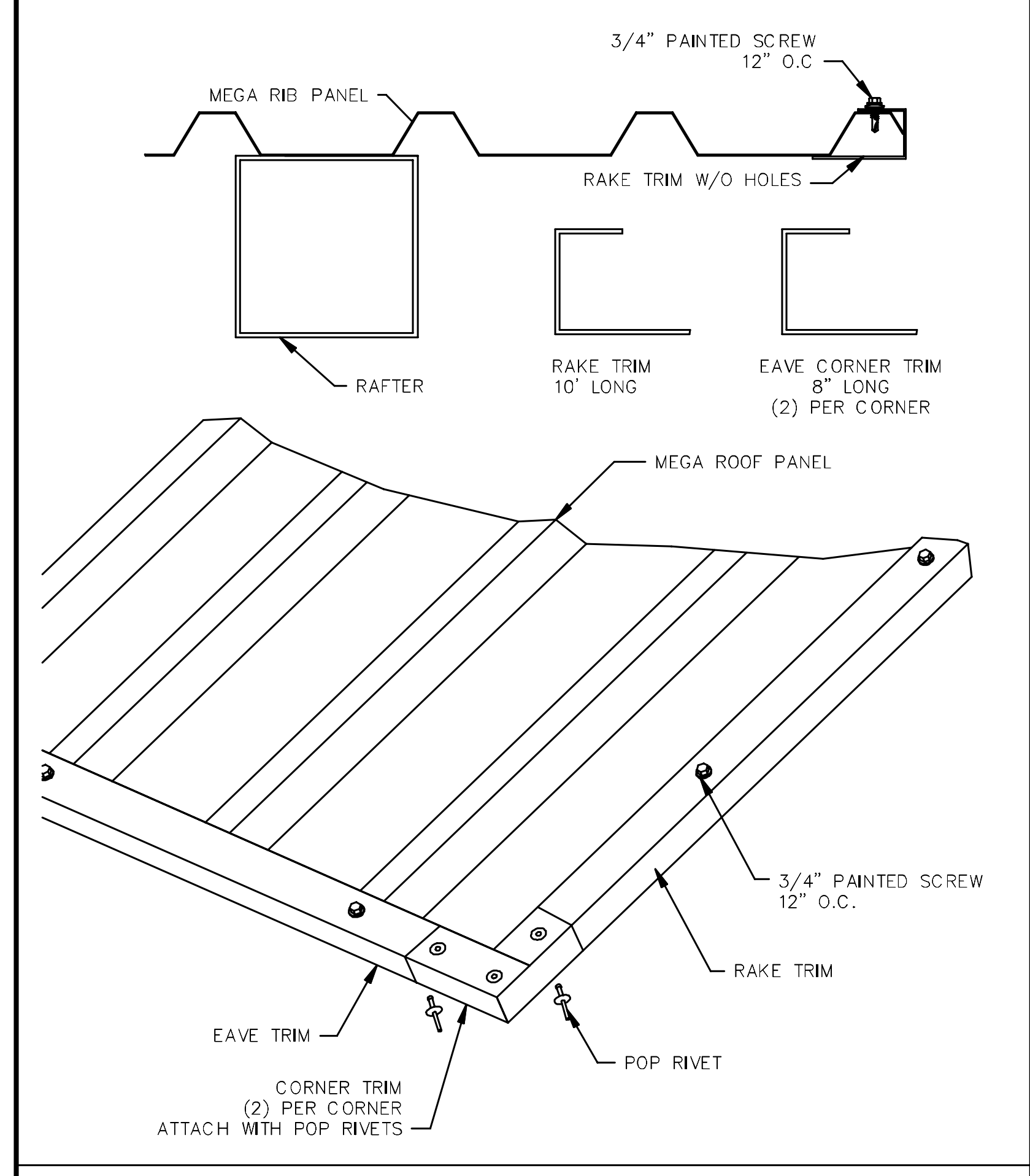
MEGA RIB ROOF EAVE CONNECTION DETAIL G-E1



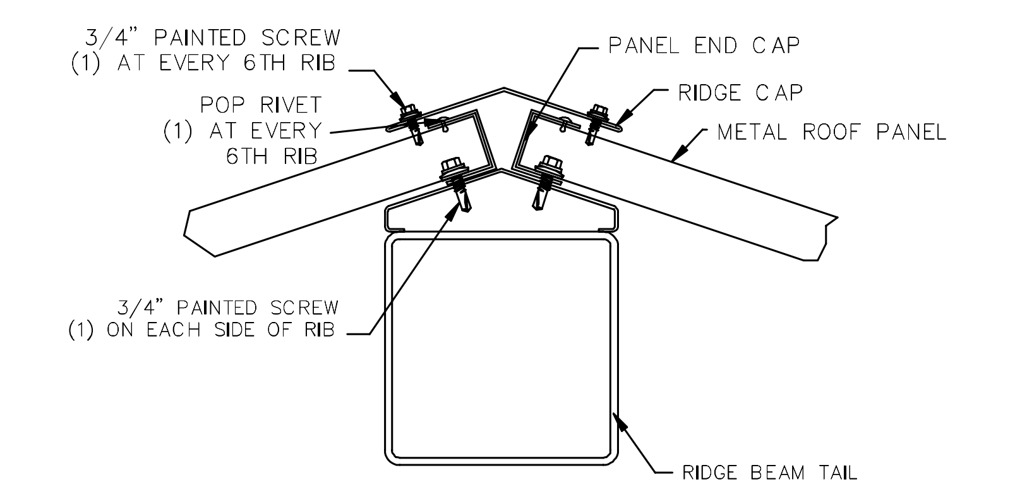
MEGA RIB ROOF CONNECTION AT RIDGE G-G1



MEGA RIB ROOF CONNECTION AT PURLIN G-P1



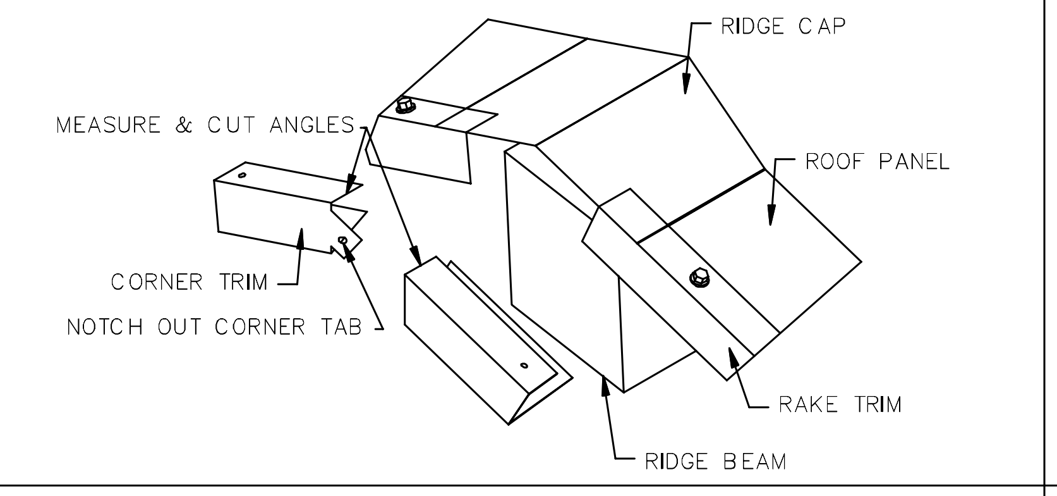
MEGA RIB CONNECTION AT RAKE G-R1



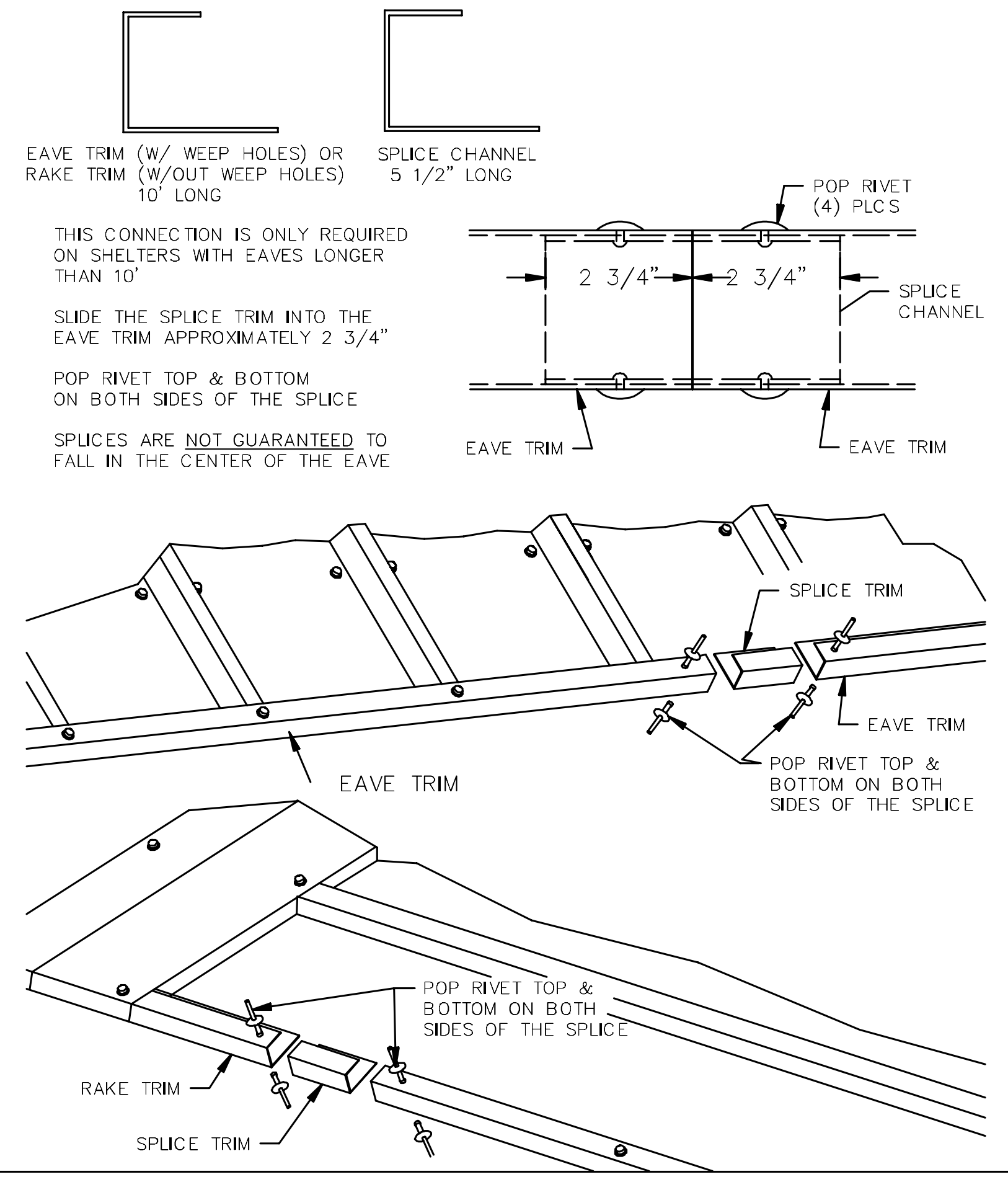
CUT A MITER AND CORNER TAB ON (1) OF THE CORNER PIECES
CUT AN OPTIONAL MITER ON THE SECOND EAVE CORNER

SLIDE THE CORNER TRIM OVER THE RAKE TRIM AND RIDGE CAP

THEN ATTACH THE TRIM WITH POP RIVETS TO THE EAVE TRIM



MEGA RIB ROOF CORNER CONNECTION DETAIL G-M2



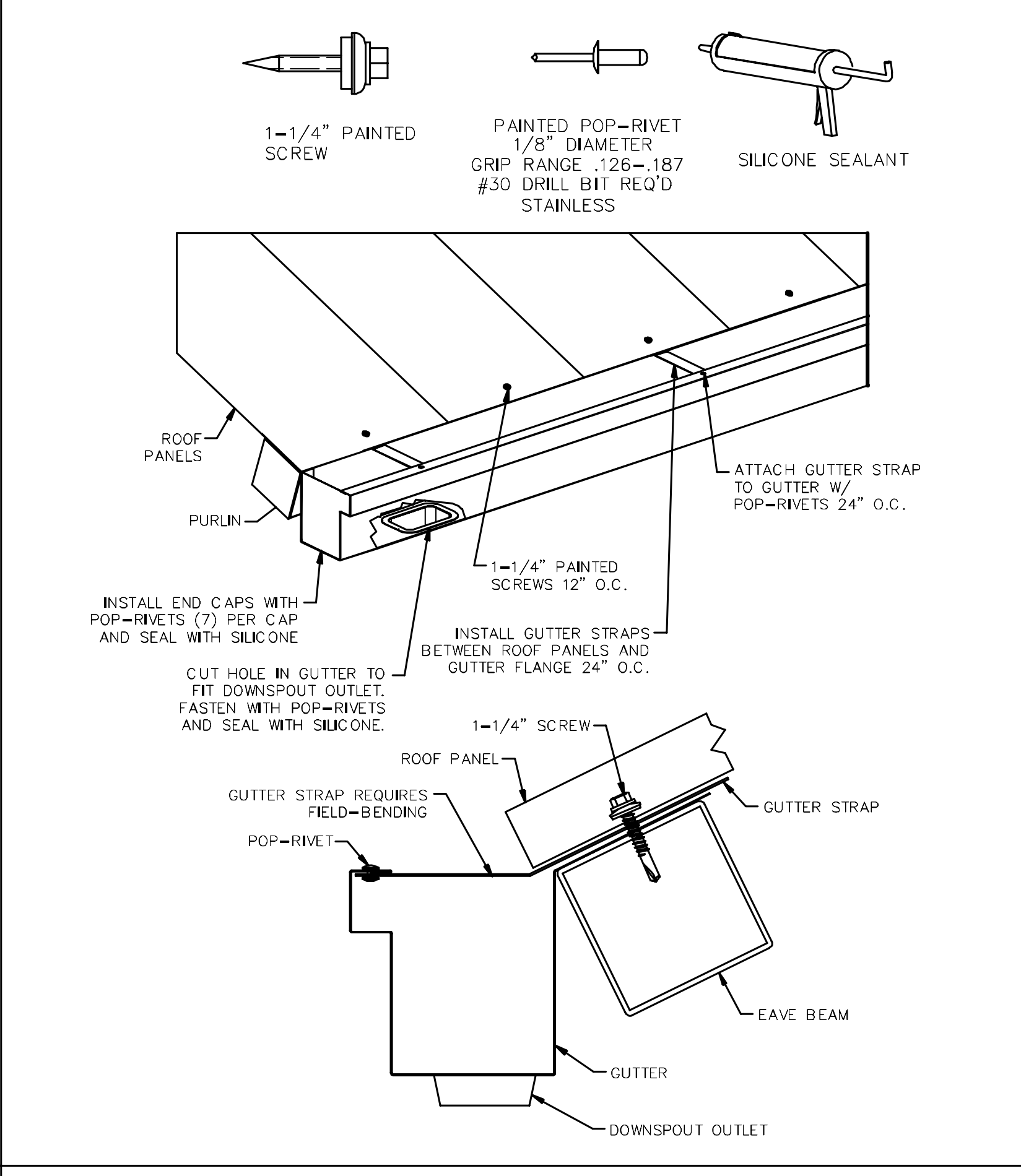
THIS CONNECTION IS ONLY REQUIRED ON SHELTERS WITH EAVES LONGER THAN 10'

SLIDE THE SPLICE TRIM INTO THE EAVE TRIM APPROXIMATELY 2 3/4"

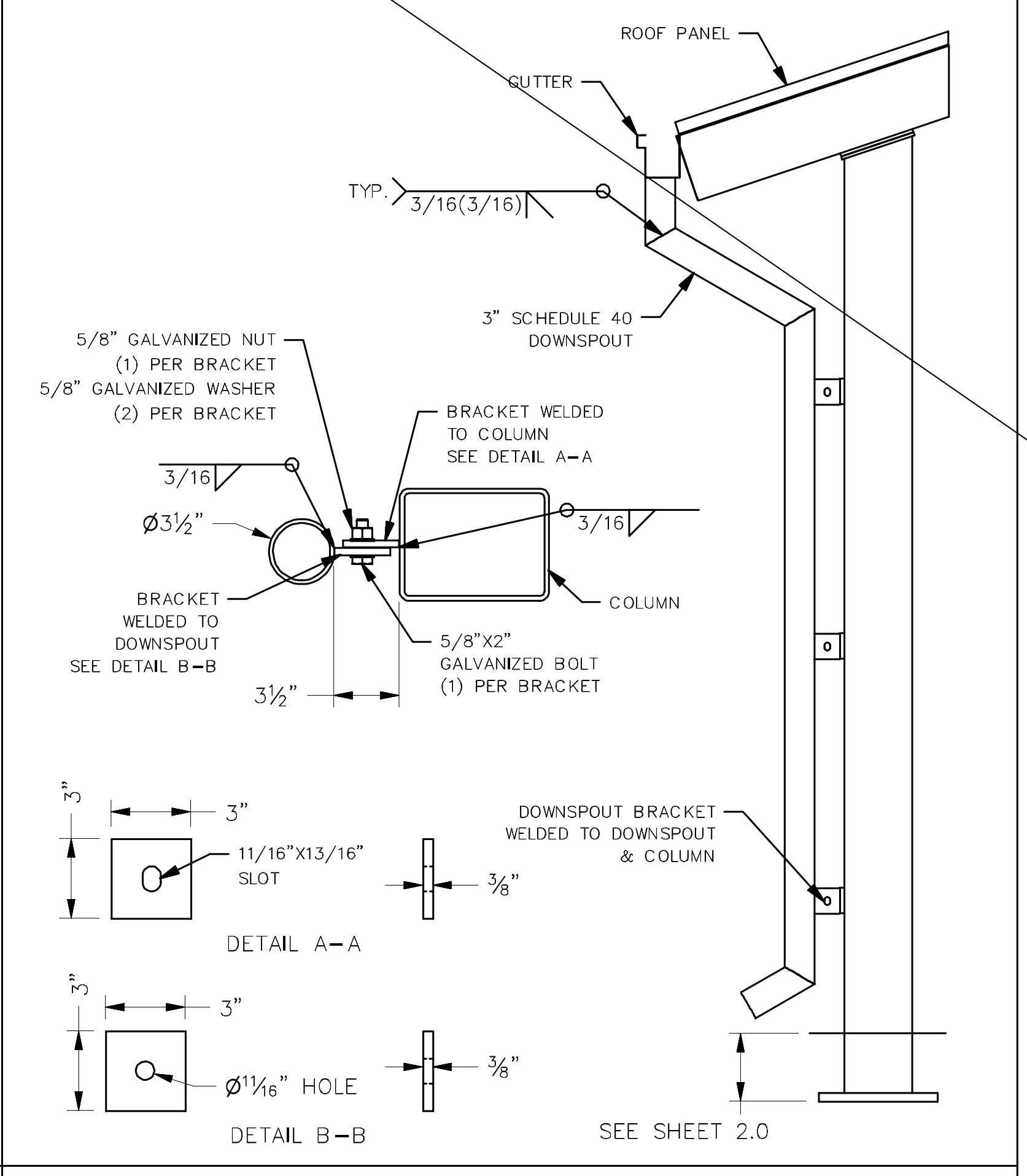
POP RIVET TOP & BOTTOM ON BOTH SIDES OF THE SPLICE

SPLICES ARE NOT GUARANTEED TO FALL IN THE CENTER OF THE EAVE

MEGA RIB ROOF SPLICE CONNECTION DETAIL G-S1



OPTIONAL GUTTER INSTALLATION
MEGA RIB ROOF GU1



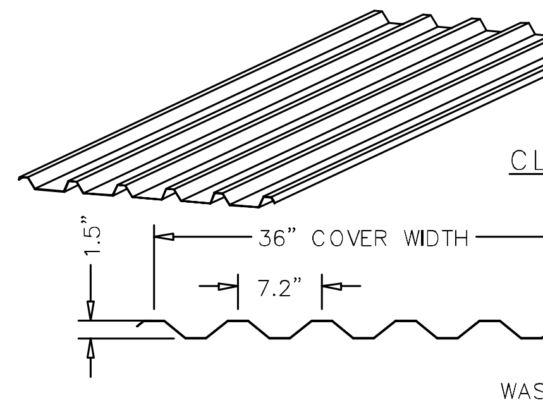
OPTIONAL GUTTER SECTION
MEGA RIB ROOF GU2

ROOF NOTES

ATTENTION INSTALLERS:
METAL SHAVINGS LEFT ON ROOF WILL QUICKLY RUST AND STAIN THE ROOF FINISH!

DRILLING OR INSTALLING ROOF FASTENERS WILL CAUSE METAL SHAVINGS. THESE SHAVINGS MUST BE CAREFULLY REMOVED AT THE END OF EACH DAY BY EITHER SWEEPING OR BRUSHING THE INSTALLED ROOF.

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122188 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/21/2023



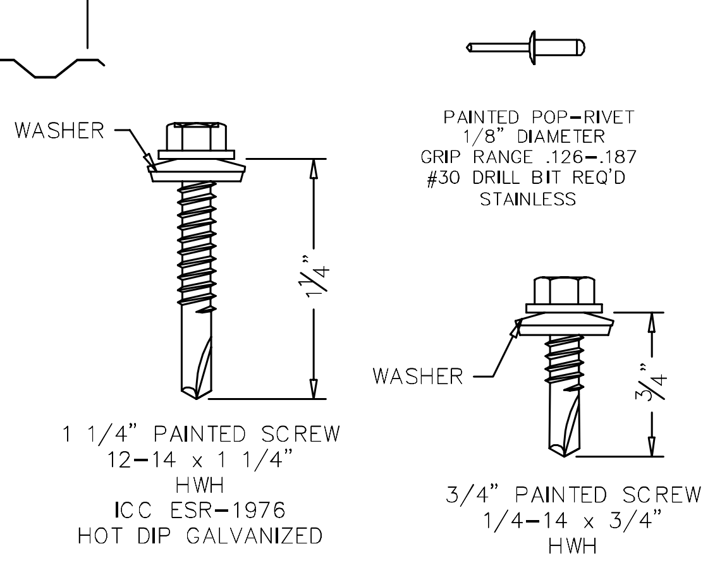
CLASS A ROOFING

MEGA RIB PANEL SECTION
24 ga. Fy=50 ksi Fu=65 ksi
UES EVALUATION REPORT #270

SECTION PROPERTIES
(PER FT. OF WIDTH)

TOP IN COMPRESSION
Ix=0.091 in^4
Se=0.1098 in^3
Ma=2.7433 in-kips

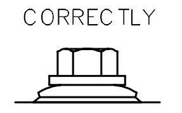
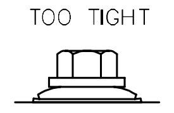
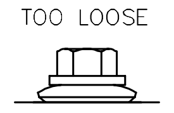
BOTTOM IN COMPRESSION
Ix=0.089 in^4
Se=0.0973 in^3
Ma=2.430 in-kips



1 1/4" PAINTED SCREW
12-14 x 1 1/4"
HWH
ICC ESR-1976
HOT DIP GALVANIZED

PAINTED POP-RIVET
1/8" DIAMETER
GRIP RANGE .126-.187
#30 DRILL BIT REQ'D
STAINLESS

3/4" PAINTED SCREW
1/4-14 x 3/4"
HWH
ICC ESR-1976
HOT DIP GALVANIZED

INSTALLED CORRECTLY	INSTALLED TOO TIGHT	INSTALLED TOO LOOSE
		
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PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

ICON STD	RG/DSA-PC
DRAWN BY	JD
DATE	3/21/2023
REV	
REV DATE	

JRMA
ARCHITECTS ENGINEERS
2700 SATURN ST I BREA, CA 92821
T. 714.524.1870 I F. 714.524.1875
WWW.JRMA.COM

Aug 31, 2023

30' WIDE
RECTANGULAR GABLE
MEGA RIB ROOFING
PLAN

ICON Shelter Systems Inc
DISTINCTIVE STEEL SHELTERS
WWW.ICONSHELTERS.COM

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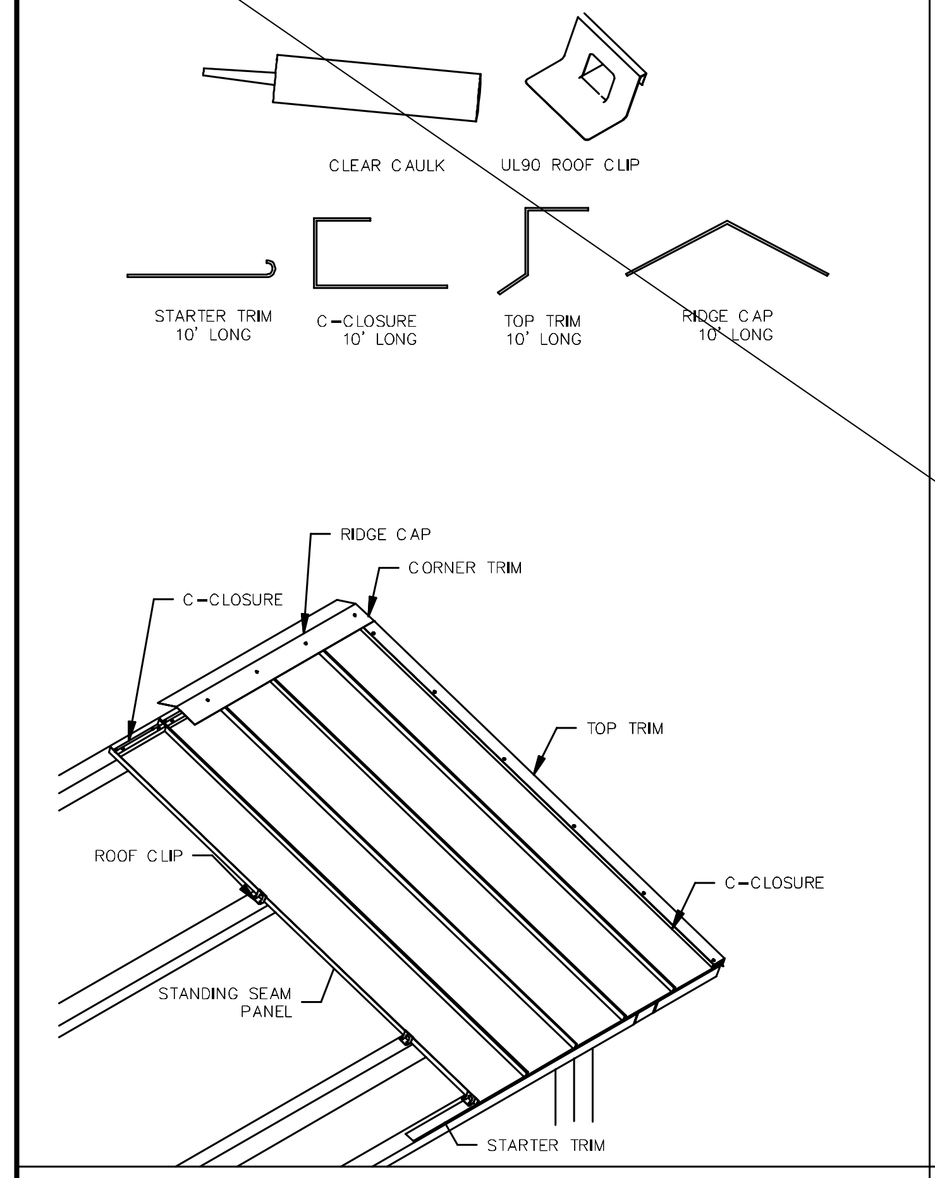
1455 LINCOLN AVE
HOLLAND MI, 49423

616.396.0919
800.748.0985
616.396.0944 FX

LS3.3

S:\Engineering\Inventor\DSA 2019\PC 2019 RG DSA\ROOFS\30 FOOT WIDE ROOF\24 FOOT MEGARIB.iam

PRINTED ON :

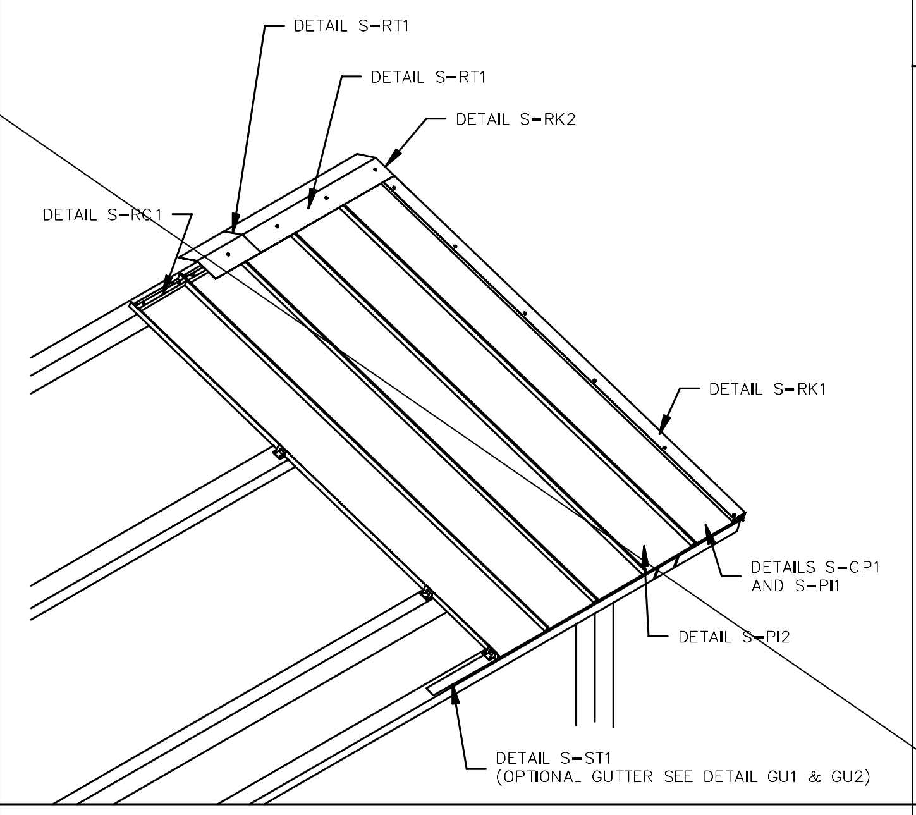


TRIM REFERENCE

THESE DETAILS ASSUME THAT ALL COMPONENTS OF THIS ROOF SYSTEM WILL BE INSTALLED PLUMB AND SQUARE. CAULK AND TRIM SHOULD ALSO BE INSTALLED TO ENSURE WATER TIGHTNESS

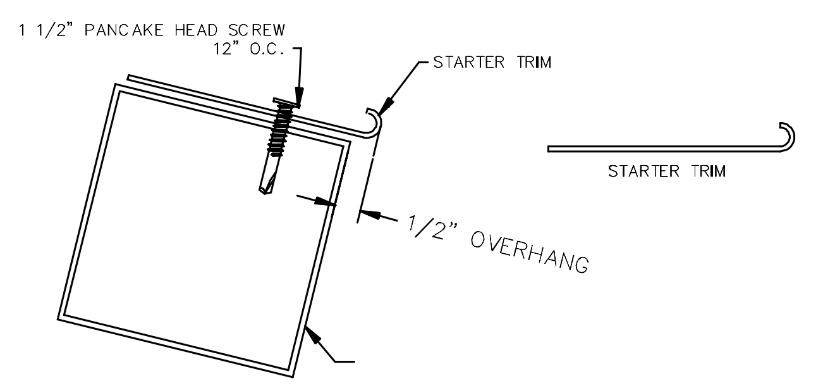
READ ALL DETAILS IN THIS INSTALLATION MANUAL BEFORE STARTING

- S-ST1 STARTER TRIM
- S-CP1 ROOF PANEL PREPARATION
- S-PI1 FIRST ROOF PANEL
- S-PI2 SECOND ROOF PANEL
- S-RK1 TOP TRIM & C-CLOSURE @ RAKE
- S-RC1 C-CLOSURE @ RIDGE
- S-RK2 RIDGE CORNER TRIM
- S-RT1 RIDGE CAP



ORDER OF INSTALLATION

INSTALL STARTER TRIM OVERHANGING THE EDGE OF THE EAVE PURLIN 1/2". ATTACH STARTER TRIM WITH 1 1/2" PANCAKE HEAD SCREWS 12" O.C.

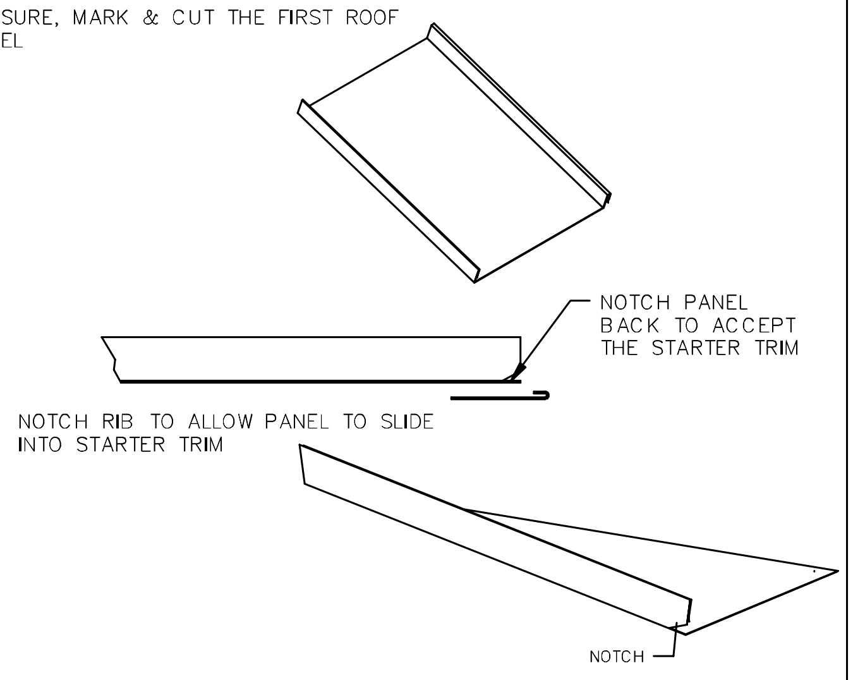


NOTE: SEE DETAILS GU1 AND GU2 IF INSTALLING OPTIONAL GUTTER SYSTEM

STARTER INSTALLATION

S-ST1

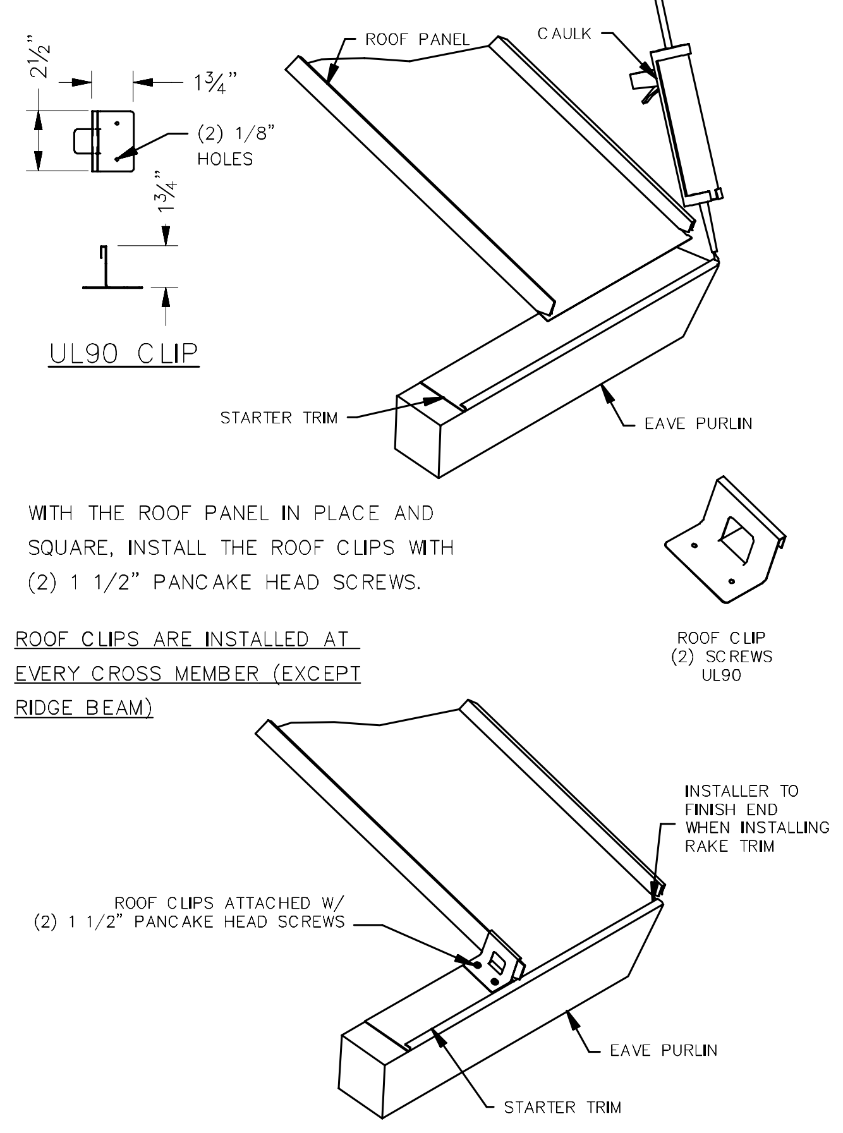
MEASURE, MARK & CUT THE FIRST ROOF PANEL


NOTCH PANEL BACK TO ACCEPT THE STARTER TRIM
NOTCH RIB TO ALLOW PANEL TO SLIDE INTO STARTER TRIM
NOTCH

FIELD CUTTING ROOF PANELS

S-CP1

AFTER THE ROOF PANEL HAS BEEN CUT TO SIZE (IF NECESSARY) AND NOTCHED, TEST FIT THE PANEL. THEN APPLY A BEAD OF CAULK THE APPROXIMATE LENGTH OF THE PANEL. SLIDE THE PANEL INTO PLACE, AND SQUARE IT UP TO THE ROOF.


2½"
1¾"
(2) 1/8" HOLES
1¾
UL90 CLIP
ROOF PANEL
CAULK
STARTER TRIM
EAVE PURLIN
ROOF CLIP (2) SCREWS UL90
INSTALLER TO FINISH END WHEN INSTALLING RAKE TRIM
ROOF CLIPS ATTACHED W/ (2) 1 1/2" PANCAKE HEAD SCREWS
EAVE PURLIN
STARTER TRIM

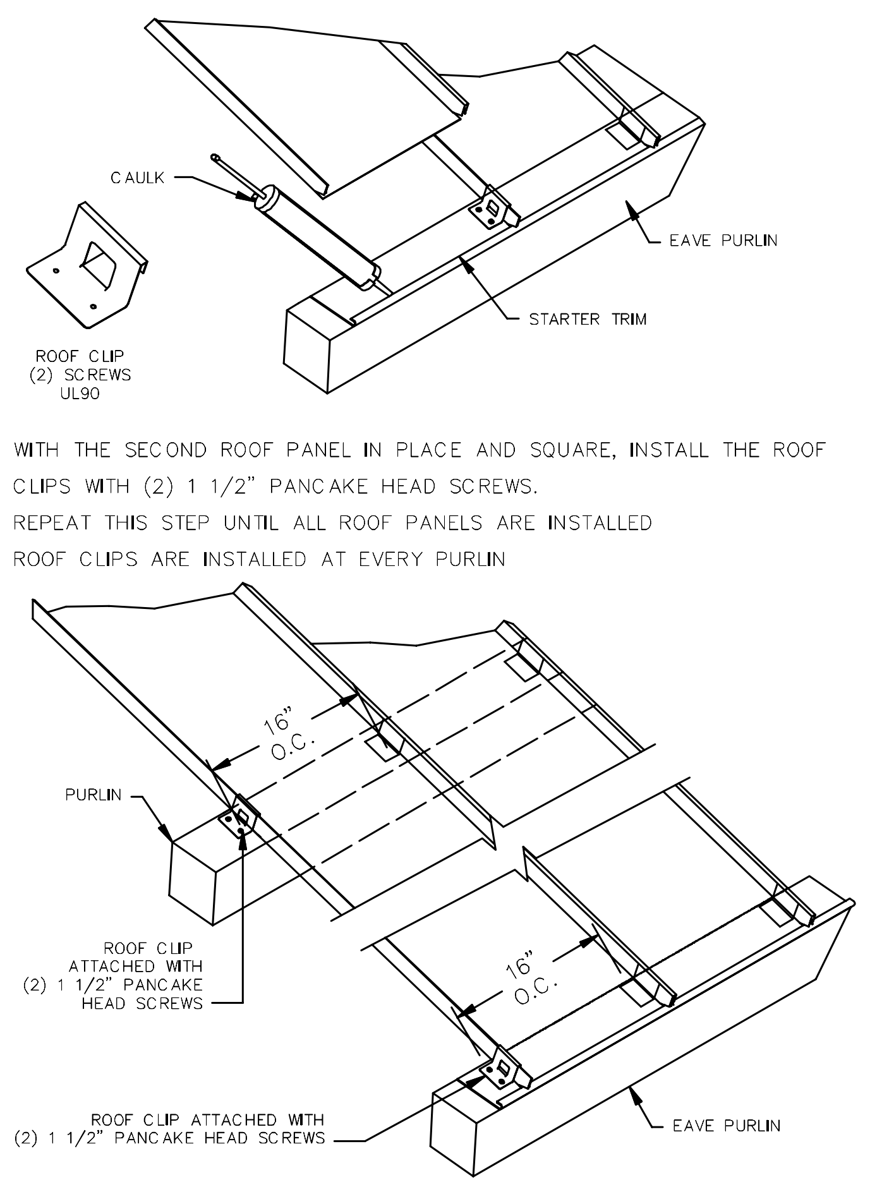
WITH THE ROOF PANEL IN PLACE AND SQUARE, INSTALL THE ROOF CLIPS WITH (2) 1 1/2" PANCAKE HEAD SCREWS.

ROOF CLIPS ARE INSTALLED AT EVERY CROSS MEMBER (EXCEPT RIDGE BEAM)

INSTALLATION OF FIRST ROOF PANEL

S-PI1

AFTER THE SECOND ROOF PANEL HAS BEEN CUT TO LENGTH (IF NECESSARY) AND NOTCHED, TEST FIT PANEL. THEN APPLY A BEAD OF CAULK INSIDE THE STARTER TRIM. SLIDE THE SECOND ROOF PANEL IN PLACE AND SNAP IT OVER THE BATTEN OF THE FIRST PANEL


CAULK
EAVE PURLIN
STARTER TRIM
ROOF CLIP (2) SCREWS UL90
16" O.C.
PURLIN
16" O.C.
ROOF CLIP ATTACHED WITH (2) 1 1/2" PANCAKE HEAD SCREWS
ROOF CLIP ATTACHED WITH (2) 1 1/2" PANCAKE HEAD SCREWS
EAVE PURLIN

WITH THE SECOND ROOF PANEL IN PLACE AND SQUARE, INSTALL THE ROOF CLIPS WITH (2) 1 1/2" PANCAKE HEAD SCREWS.

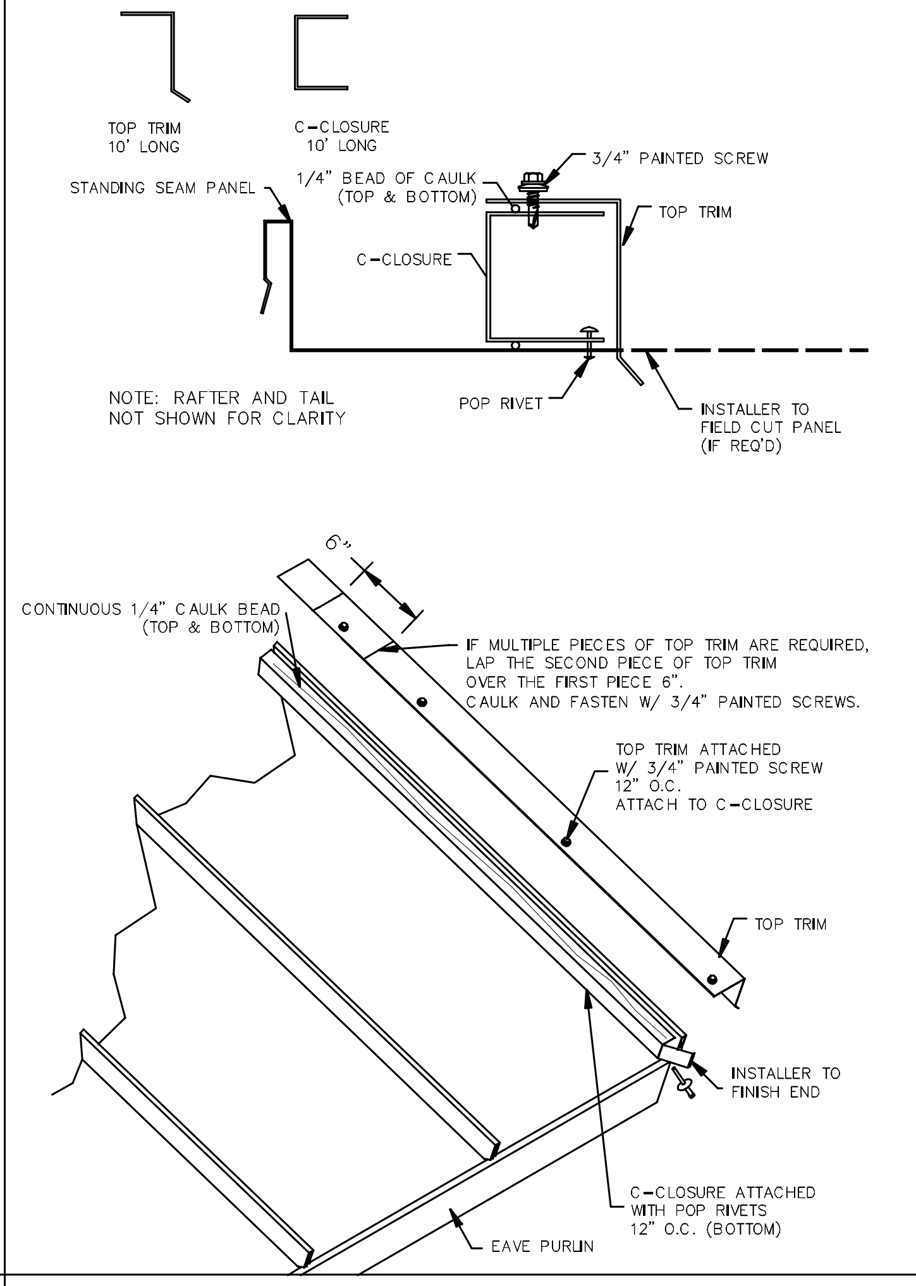
REPEAT THIS STEP UNTIL ALL ROOF PANELS ARE INSTALLED

ROOF CLIPS ARE INSTALLED AT EVERY PURLIN

ROOF CLIPS ARE INSTALLED AT EVERY PURLIN

INSTALLATION OF SECOND ROOF PANEL

S-PI2


TOP TRIM 10' LONG
C-CLOSURE 10' LONG
STANDING SEAM PANEL
1/4" BEAD OF CAULK (TOP & BOTTOM)
3/4" PAINTED SCREW
TOP TRIM
C-CLOSURE
POP RIVET
INSTALLER TO FIELD CUT PANEL (IF REQ'D)
6"
CONTINUOUS 1/4" CAULK BEAD (TOP & BOTTOM)
TOP TRIM ATTACHED W/ 3/4" PAINTED SCREW 12" O.C. ATTACH TO C-CLOSURE
TOP TRIM
INSTALLER TO FINISH END
C-CLOSURE ATTACHED WITH POP RIVETS 12" O.C. (BOTTOM)
EAVE PURLIN

NOTE: RAFTER AND TAIL NOT SHOWN FOR CLARITY

IF MULTIPLE PIECES OF TOP TRIM ARE REQUIRED, LAP THE SECOND PIECE OF TOP TRIM OVER THE FIRST PIECE 6". CAULK AND FASTEN W/ 3/4" PAINTED SCREWS.

TOP TRIM INSTALLATION @ RAKE

S-RK1

ROOF NOTES

ATTENTION INSTALLERS:
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INSTALLED CORRECTLY	INSTALLED TOO TIGHT	INSTALLED TOO LOOSE
THE SEALING MATERIAL SLIGHTLY VISIBLE AROUND THE METAL WASHER	THE SEALING MATERIAL IS DEFORMED BEYOND THE EDGE OF THE METAL WASHER	THE SEALING MATERIAL IS NOT VISIBLE AROUND THE EDGE OF THE METAL WASHER

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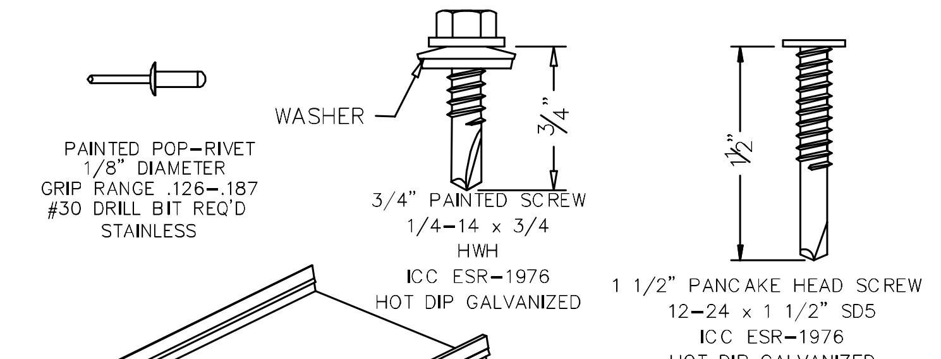
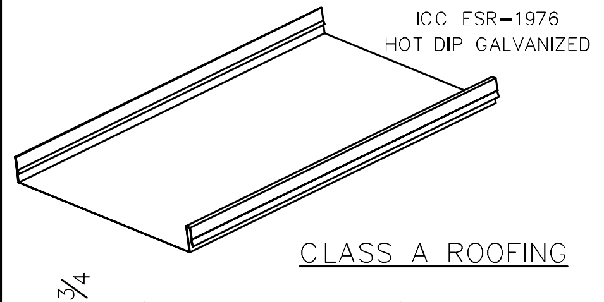


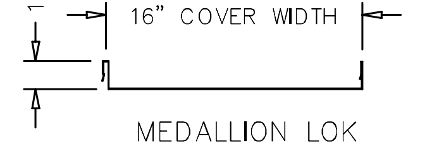
PAINTED POP-RIVET
1/8" DIAMETER
GRIP RANGE .126-.187
#30 DRILL BIT REQ'D
STAINLESS

3/4" PAINTED SCREW
1/4-14 x 3/4
HWH
ICC ESR-1976
HOT DIP GALVANIZED

1 1/2" PANCAKE HEAD SCREW
12-24 x 1 1/2" SD5
ICC ESR-1976
HOT DIP GALVANIZED



CLASS A ROOFING



MEDALLION LOK
STANDING SEAM PANEL SECTION
24 ga. Fy=50 ksi Fu=65 ksi
ICC ESL-1082

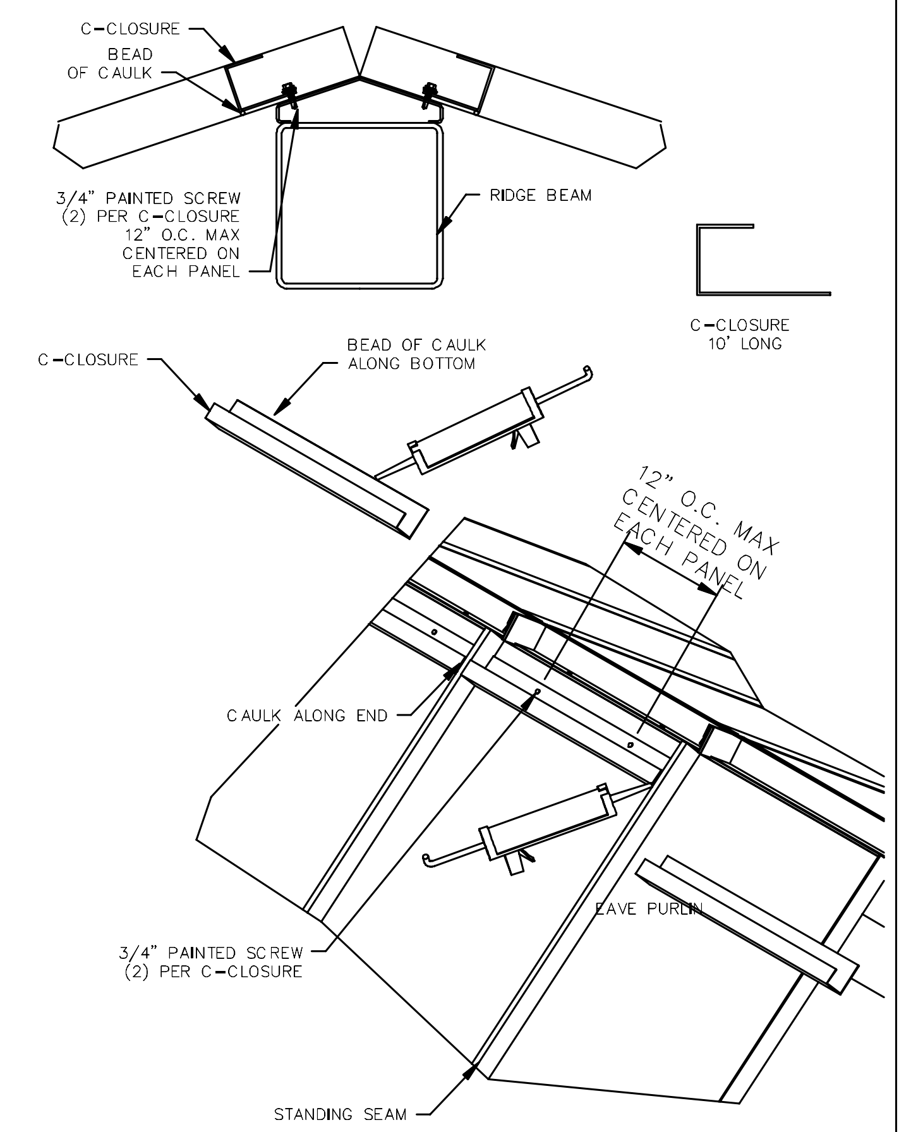
SECTION PROPERTIES
(PER FT. OF WIDTH)

TOP IN COMPRESSION
Ix=0.0848 in^4
Se=0.0565 in^3
Ma=1.4115 in-kips

BOTTOM IN COMPRESSION
Ix=0.0390 in^4
Se=0.0476 in^3
Ma=1.0305 in-kips

TO INSTALL C-CLOSURES ALONG THE RIDGE MEASURE, MARK & CUT THE C-CLOSURE TO LENGTH.

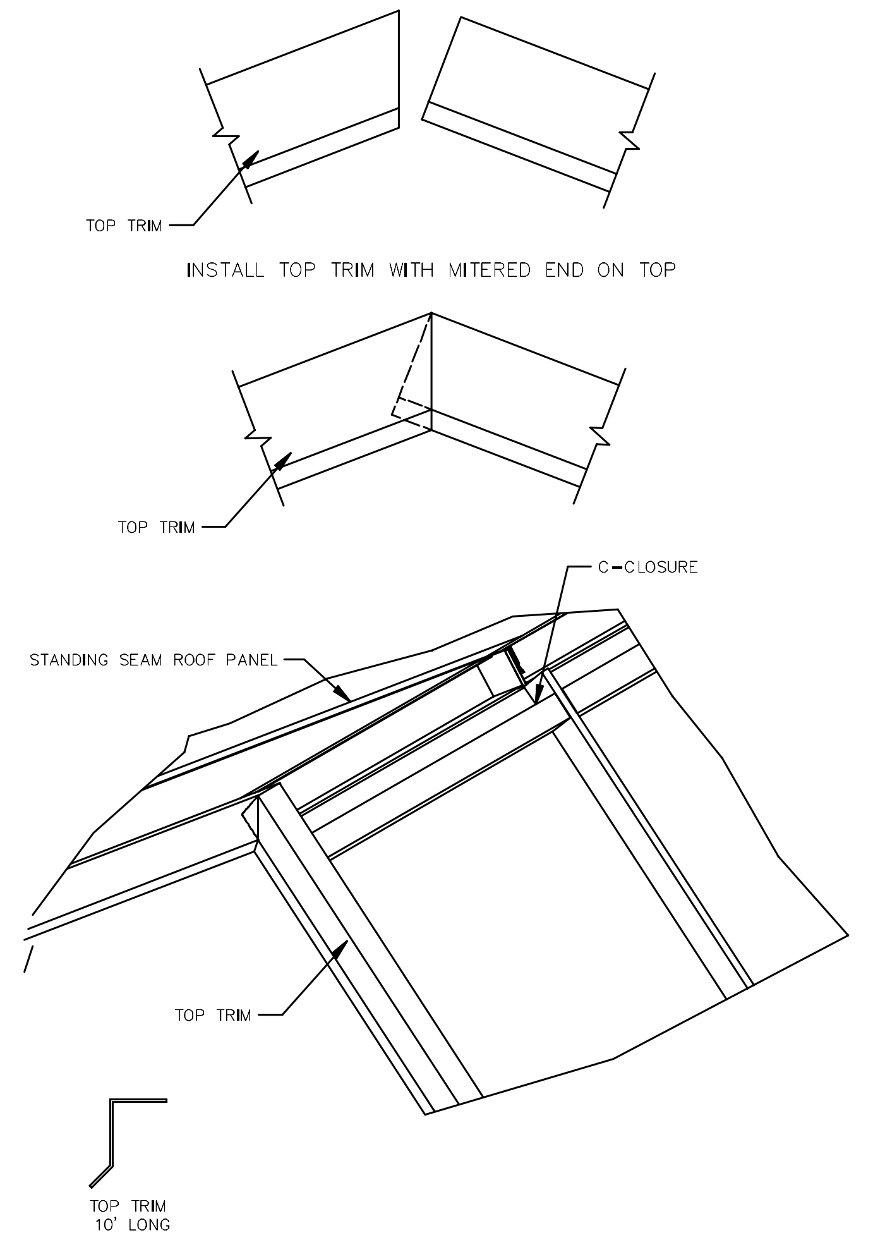
APPLY A 1/4" BEAD OF CAULK TO THE BOTTOM OF THE C-CLOSURE AND FASTEN IT TO THE ROOF WITH (2) 3/4" PAINTED SCREWS (12" O.C. MAX CENTERED ON EACH PANEL) ALONG THE RIDGE BEAM. THEN APPLY CAULK TO THE END OF THE C-CLOSURE FOR WATER TIGHTNESS


C-CLOSURE
BEAD OF CAULK
3/4" PAINTED SCREW (2) PER C-CLOSURE 12" O.C. MAX CENTERED ON EACH PANEL
RIDGE BEAM
C-CLOSURE 10' LONG
C-CLOSURE
BEAD OF CAULK ALONG BOTTOM
12" O.C. MAX CENTERED ON EACH PANEL
CAULK ALONG END
EAVE PURLIN
3/4" PAINTED SCREW (2) PER C-CLOSURE
STANDING SEAM

INSTALLATION OF C-CLOSURE @ RIDGE

S-RC1

TO FINISH OFF THE END OF THE RIDGE, CUT THE TOP TRIM AS SHOWN.

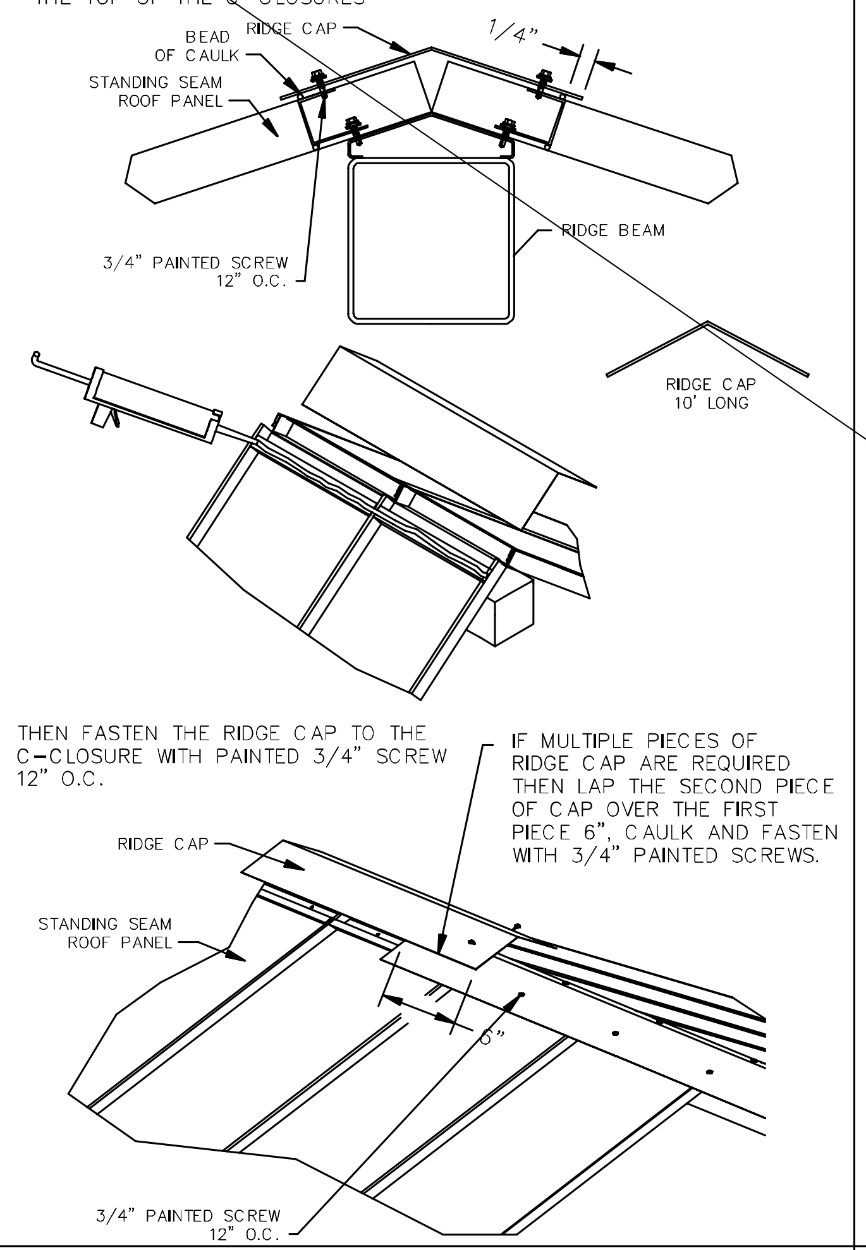


INSTALL TOP TRIM WITH MITERED END ON TOP

INSTALLATION OF CORNER TRIM

S-RK2

TO INSTALL RIDGE CAP:
FIRST APPLY A BEAD OF CAULK ALONG THE TOP OF THE C-CLOSURES

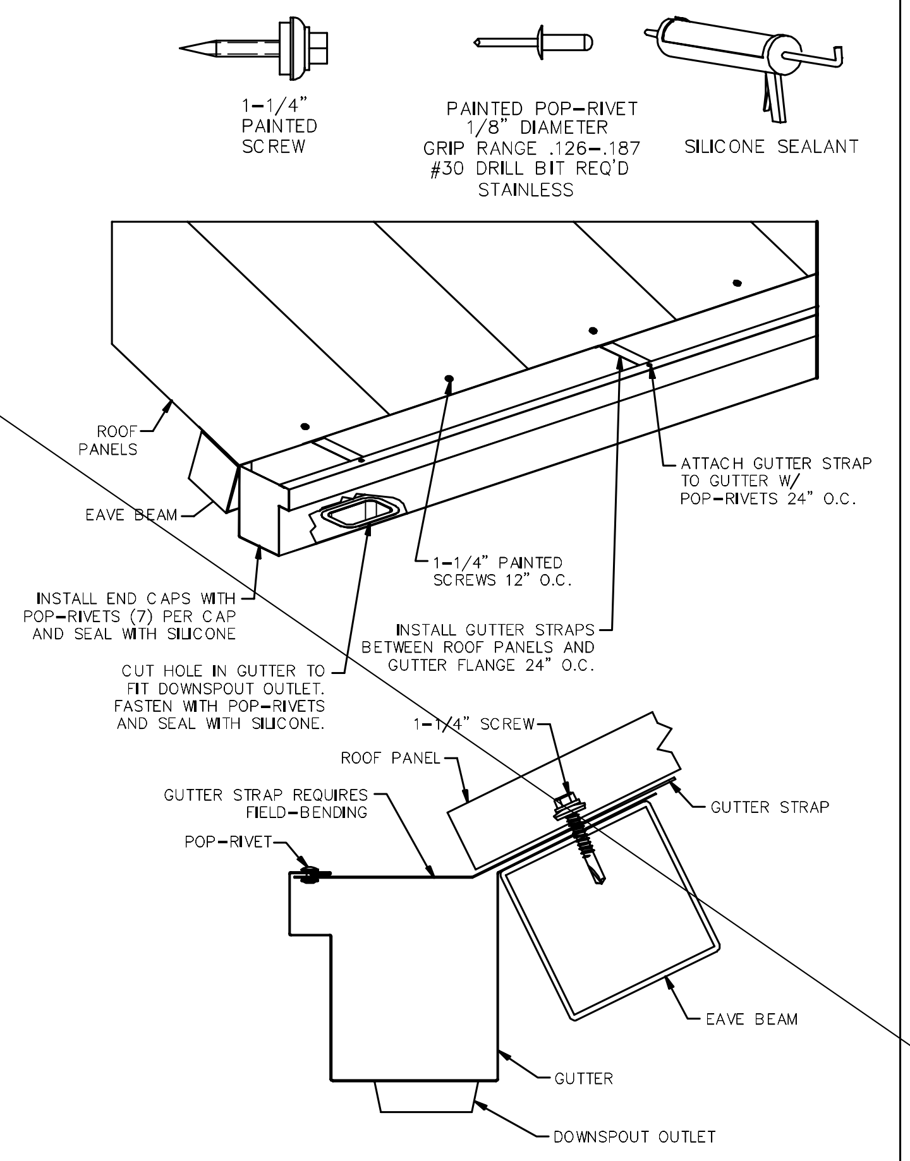


THEN FASTEN THE RIDGE CAP TO THE C-CLOSURE WITH PAINTED 3/4" SCREW 12" O.C.

IF MULTIPLE PIECES OF RIDGE CAP ARE REQUIRED THEN LAP THE SECOND PIECE OF CAP OVER THE FIRST PIECE 6", CAULK AND FASTEN WITH 3/4" PAINTED SCREWS.

INSTALLATION OF RIDGE CAP

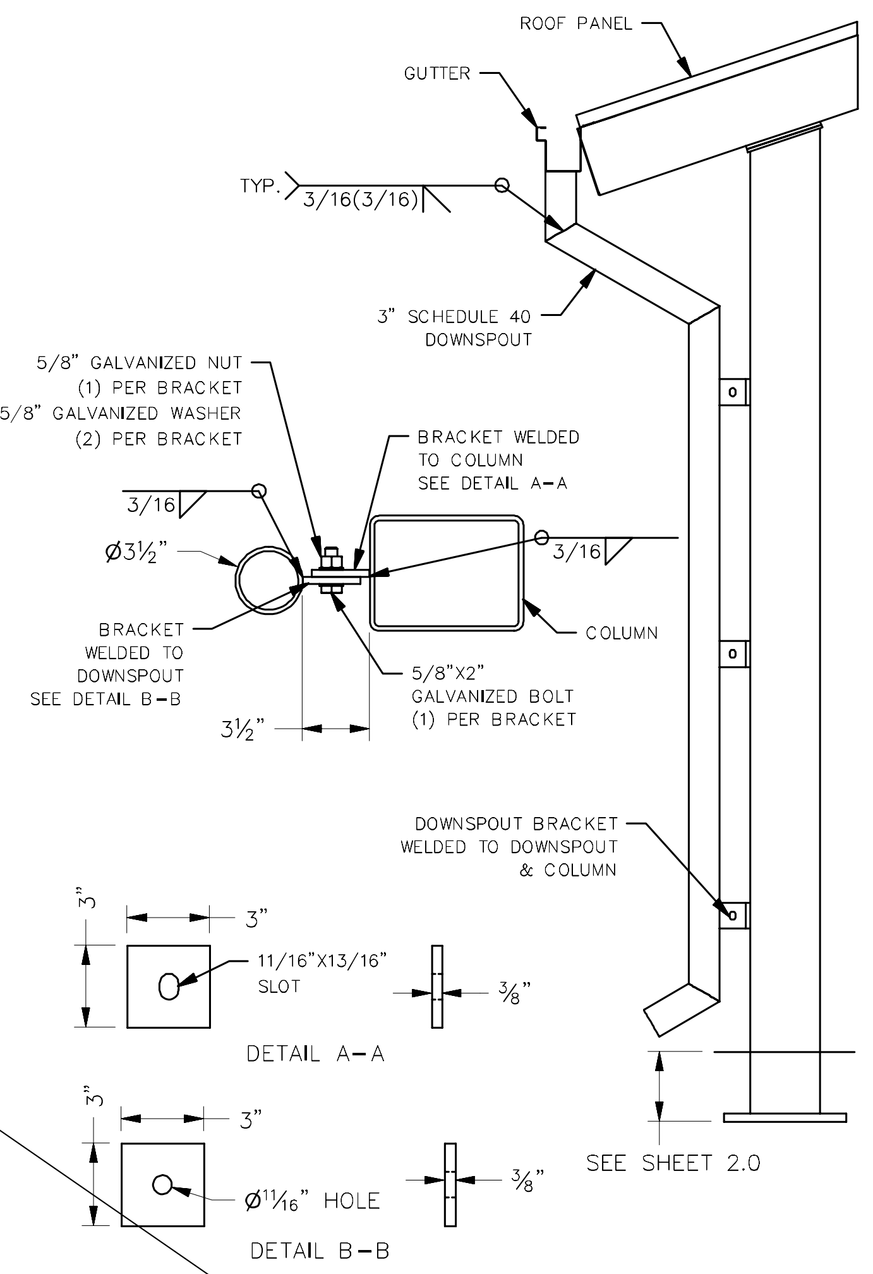
S-RT1


1-1/4" PAINTED SCREW
PAINTED POP-RIVET 1/8" DIAMETER GRIP RANGE .126-.187 #30 DRILL BIT REQ'D STAINLESS
SILICONE SEALANT
ROOF PANELS
EAVE BEAM
ATTACH GUTTER STRAP TO GUTTER W/ POP-RIVETS 24" O.C.
1-1/4" PAINTED SCREWS 12" O.C.
INSTALL END CAPS WITH POP-RIVETS (7) PER CAP AND SEAL WITH SILICONE
INSTALL GUTTER STRAPS BETWEEN ROOF PANELS AND GUTTER FLANGE 24" O.C.
CUT HOLE IN GUTTER TO FIT DOWNSPOUT OUTLET. FASTEN WITH POP-RIVETS AND SEAL WITH SILICONE.
1-1/4" SCREW
ROOF PANEL
GUTTER STRAP REQUIRES FIELD-BENDING
POP-RIVET
GUTTER STRAP
EAVE BEAM
GUTTER
DOWNSPOUT OUTLET

OPTIONAL GUTTER INSTALLATION

STANDING SEAM ROOF

GU1

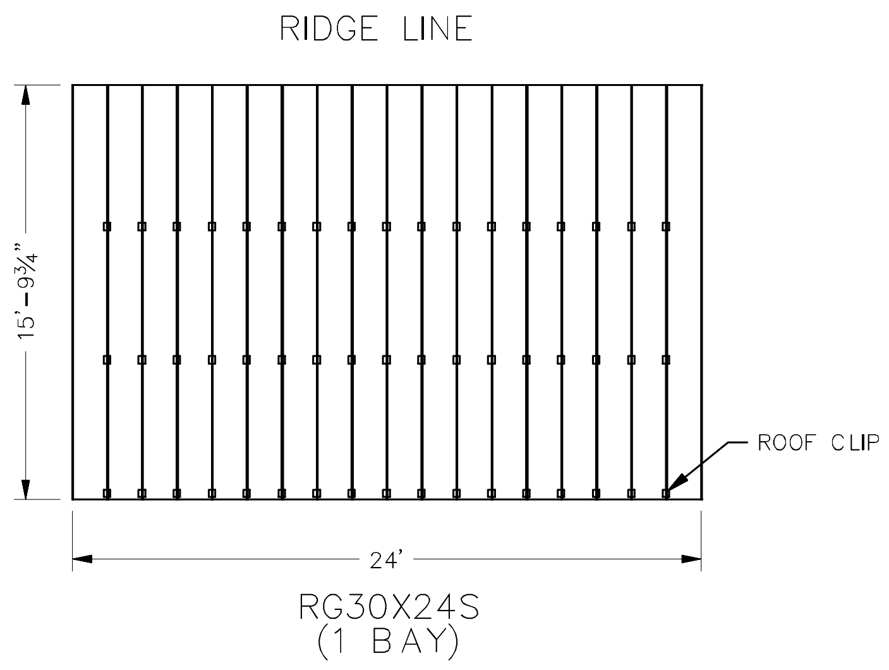

ROOF PANEL
GUTTER
TYP. 3/16(3/16)
3" SCHEDULE 40 DOWNSPOUT
5/8" GALVANIZED NUT (1) PER BRACKET
5/8" GALVANIZED WASHER (2) PER BRACKET
BRACKET WELDED TO COLUMN SEE DETAIL A-A
3/16
Ø3½"
3/16
COLUMN
BRACKET WELDED TO DOWNSPOUT SEE DETAIL B-B
5/8"X2" GALVANIZED BOLT (1) PER BRACKET
3½"
DOWNSPOUT BRACKET WELDED TO DOWNSPOUT & COLUMN
3"
3"
11/16"X13/16" SLOT
⅜"
DETAIL A-A
3"
3"
Ø11⁄16" HOLE
⅜"
DETAIL B-B
SEE SHEET 2.0

OPTIONAL GUTTER SECTION

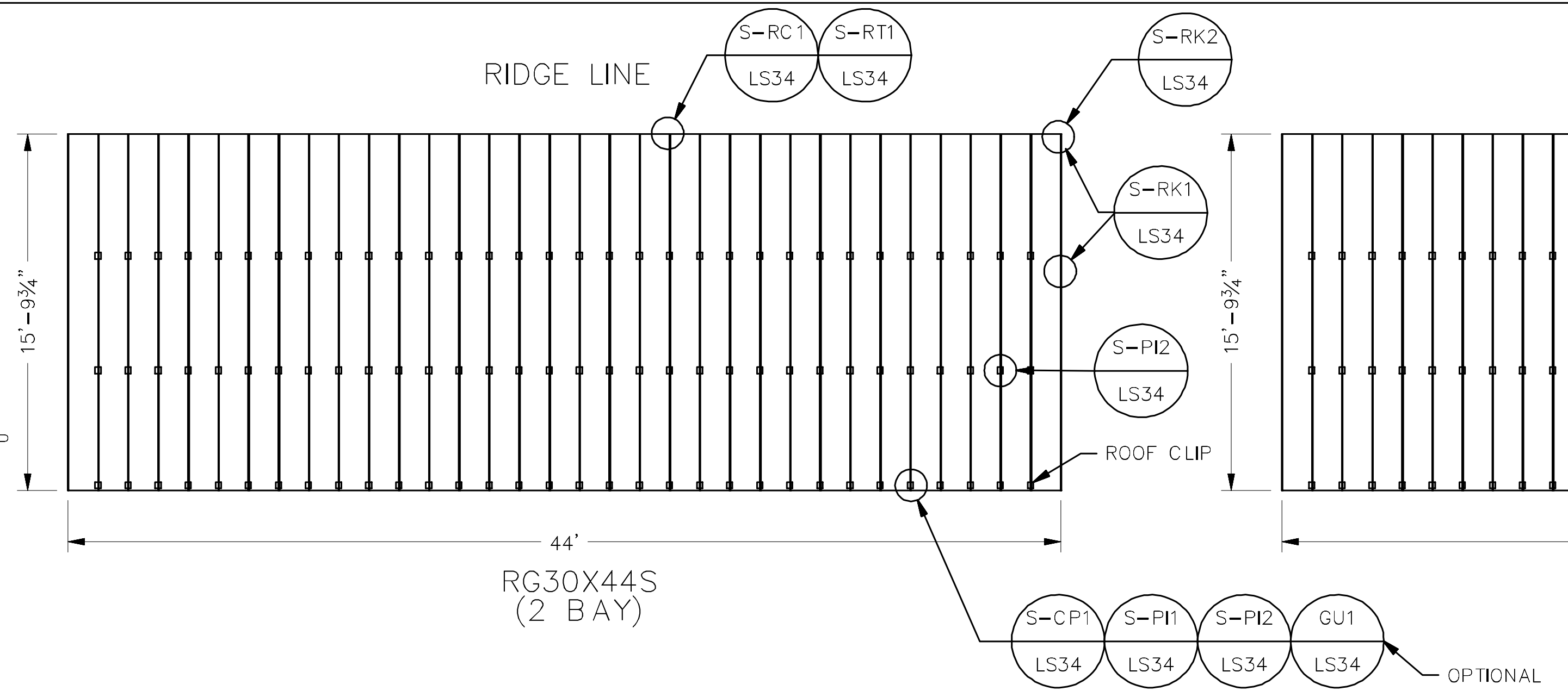
STANDING SEAM ROOF

GU2

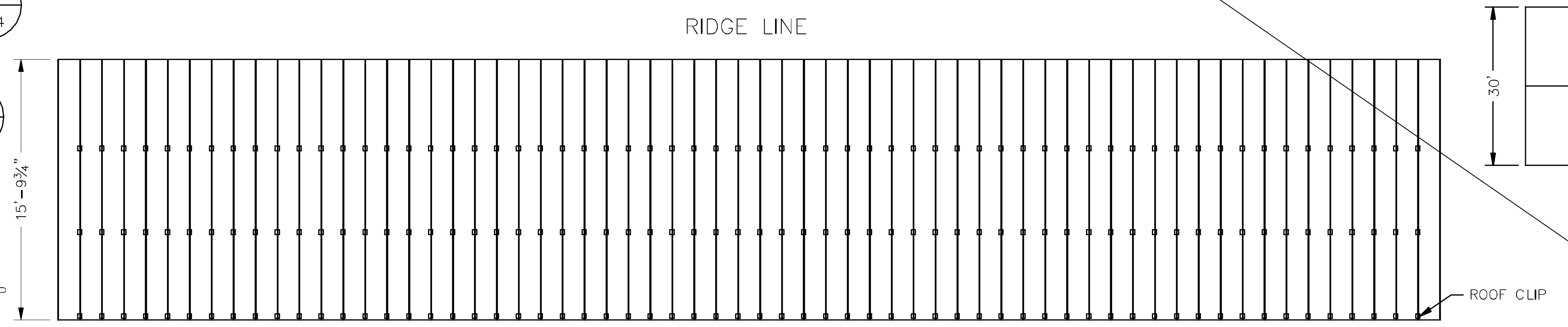
30' WIDE RECTANGULAR GABLE STANDING SEAM ROOFING



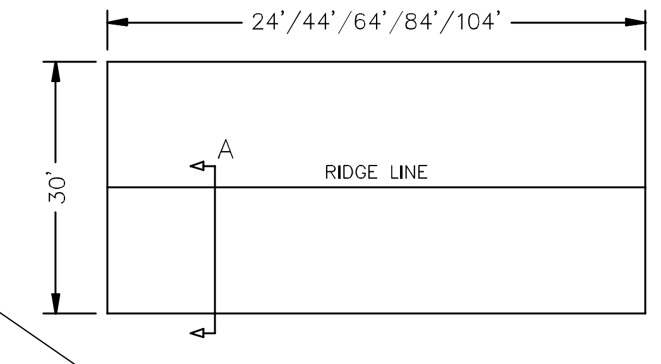
RG30X24S
(1 BAY)



RG30X44S
(2 BAY)

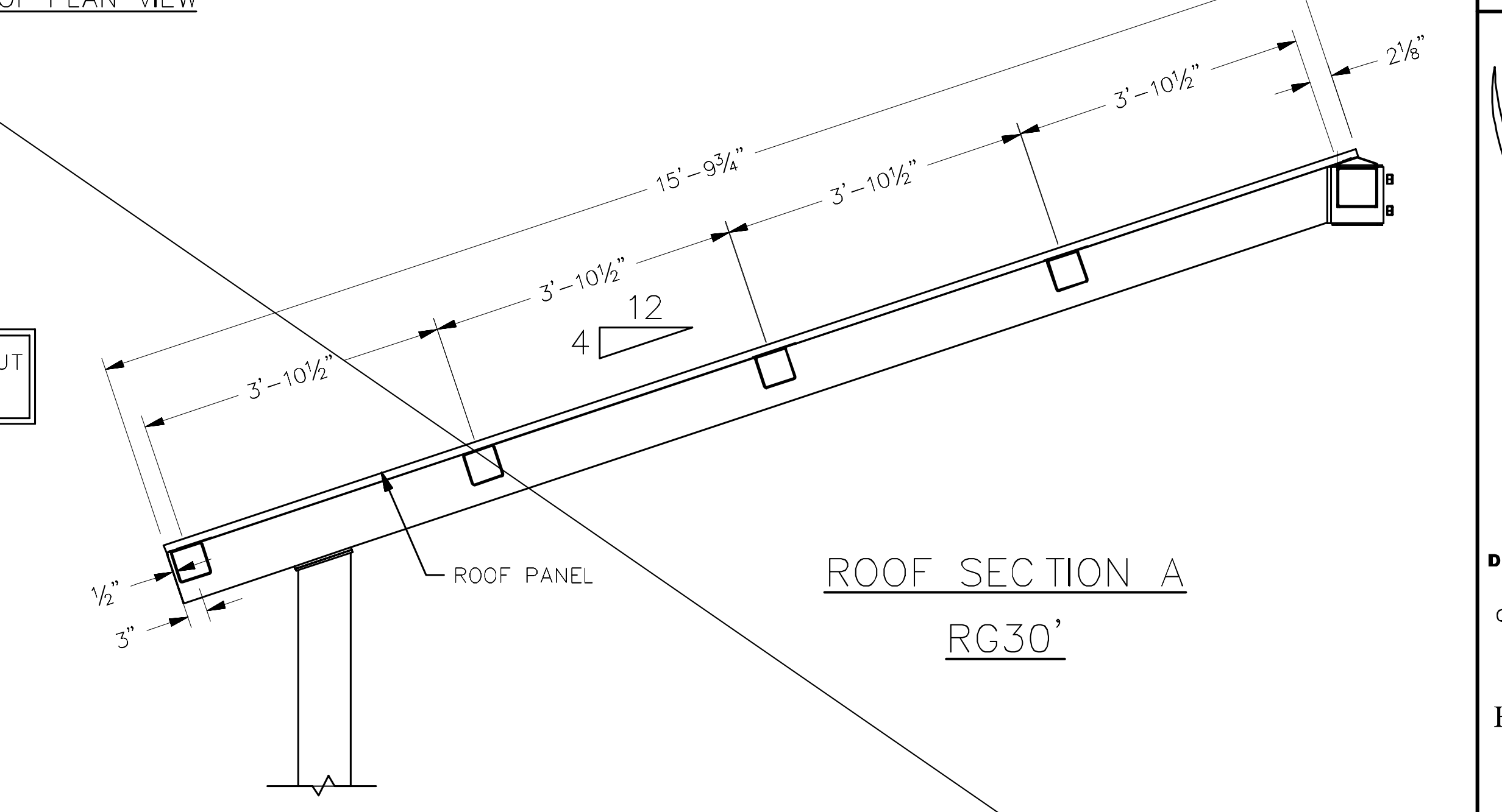


RG30X84S
(4 BAY)



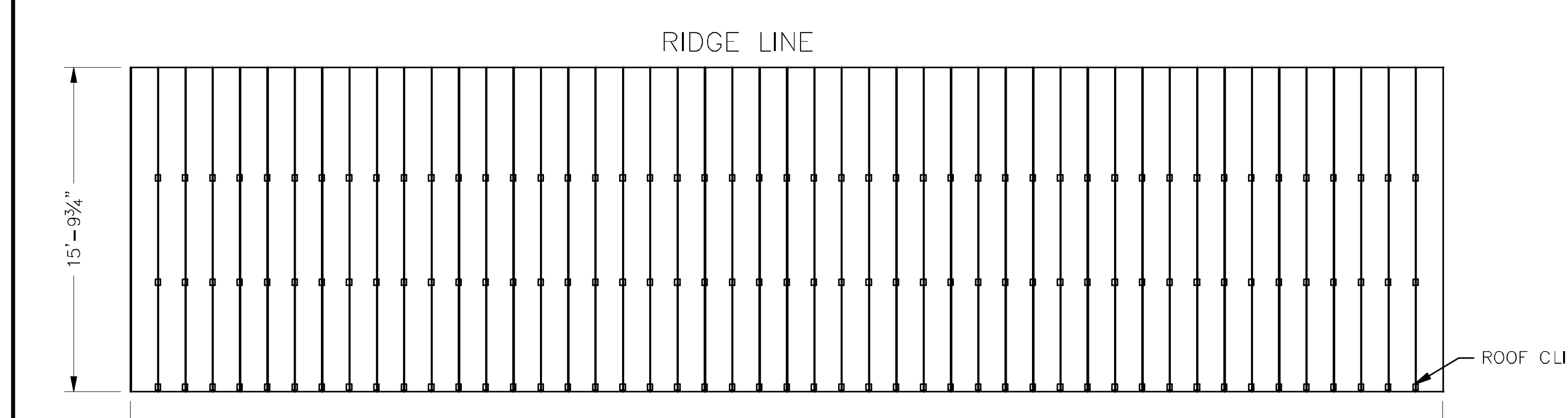
ROOF PLAN VIEW

INSTALLER TO FIELD CUT ALL ROOF PANELS

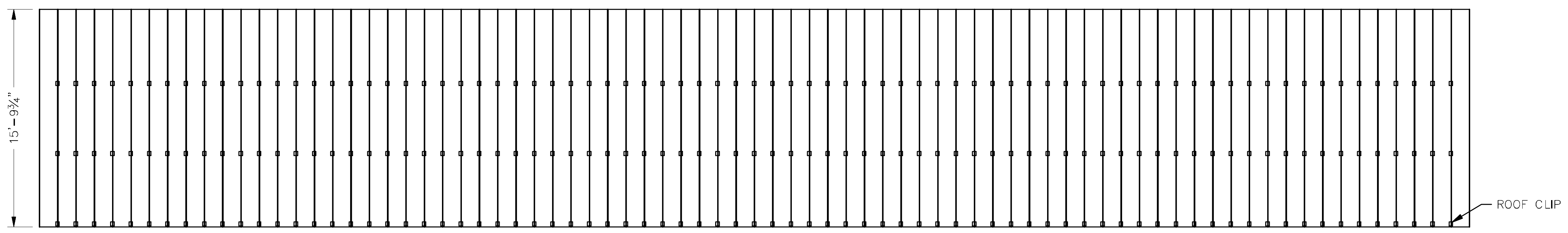


ROOF SECTION A

RG30'



RG30X64S
(3 BAY)



RG30X104S
(5 BAY)

ICON STD	RG/DSA-PC
DRAWN BY	JD
DATE	3/21/2023
REV	
REV DATE	

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MICHAEL D. LOCK
S4092
Aug 31, 2023

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122188 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/21/2023

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

30' WIDE
RECTANGULAR GABLE
STANDING SEAM
ROOFING PLAN

ICON
Shelter Systems Inc
DISTINCTIVE STEEL SHELTERS
WWW.ICONSHELTERS.COM

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800.748.0985
616.396.0944 FX

LS3.4

S:\Engineering\Inventor\DSA 2019\PC 2019 RG DSA\ROOFS\30 FOOT WIDE ROOF\64 FOOT SS ROOF.iam

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ELECTRICAL INFORMATION - RECTANGULAR GABLE

ICON'S STANDARD ELECTRICAL IS DESIGNED TO ACCOMMODATE Ø1/2" CONDUIT WITH A Ø3" INLET HOLE ON THE BOTTOM OF EACH COLUMN.
THE CONDUIT PATHWAY RUNS THROUGH THE COLUMN, RAFTER, AND RIDGE BEAM THROUGH ALL BOLTED CONNECTIONS AS SHOWN.
IF YOU HAVE SPECIAL ELECTRICAL REQUIREMENTS, PLEASE OUTLINE ANY CHANGES BELOW AS DESCRIBED.

PLEASE NOTE: DESIGN LIMITATIONS ON HOLE/CUTOUT SIZES MAY APPLY.
ICON WILL REACH OUT TO DISCUSS ANY SUCH LIMITATIONS AS NEEDED.

NOTE: ICON SHELTER FRAME IS NOT UL LISTED TO ACT AS A CONDUIT FOR
ELECTRICAL WIRING. CONSULT LOCAL BUILDING CODES WHEN PLANNING YOUR ELECTRICAL SYSTEM.

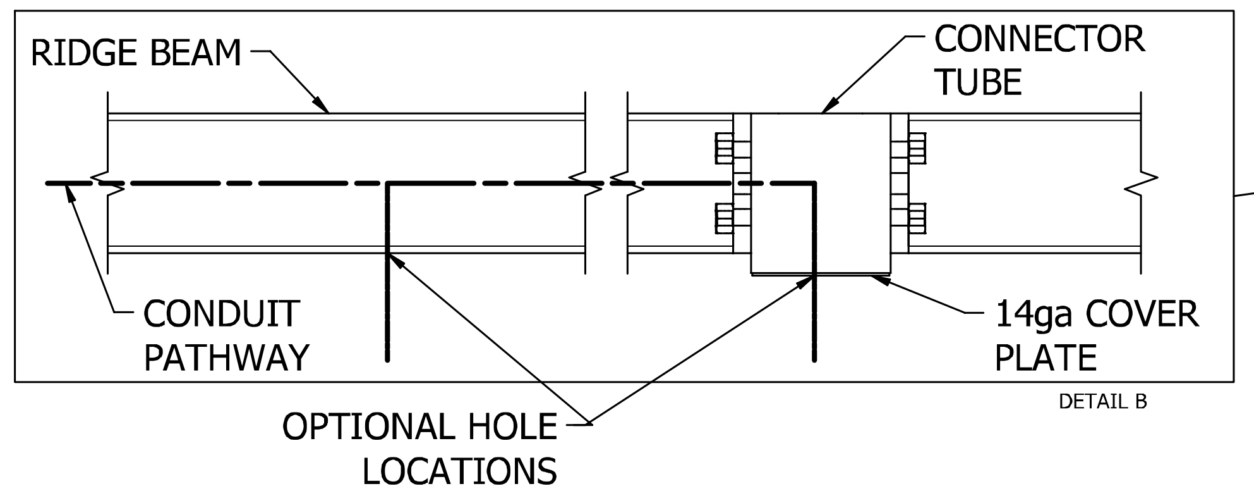
STEPS:

1. CONDUIT HOLE SIZE (DETAIL A)
2. ELECTRICAL EXIT HOLES (DETAIL B)
3. ELECTRICAL ACCESS & COVER PLATES (DETAIL C)
4. ELECTRICAL CONDUIT PATHWAY (DETAIL D)

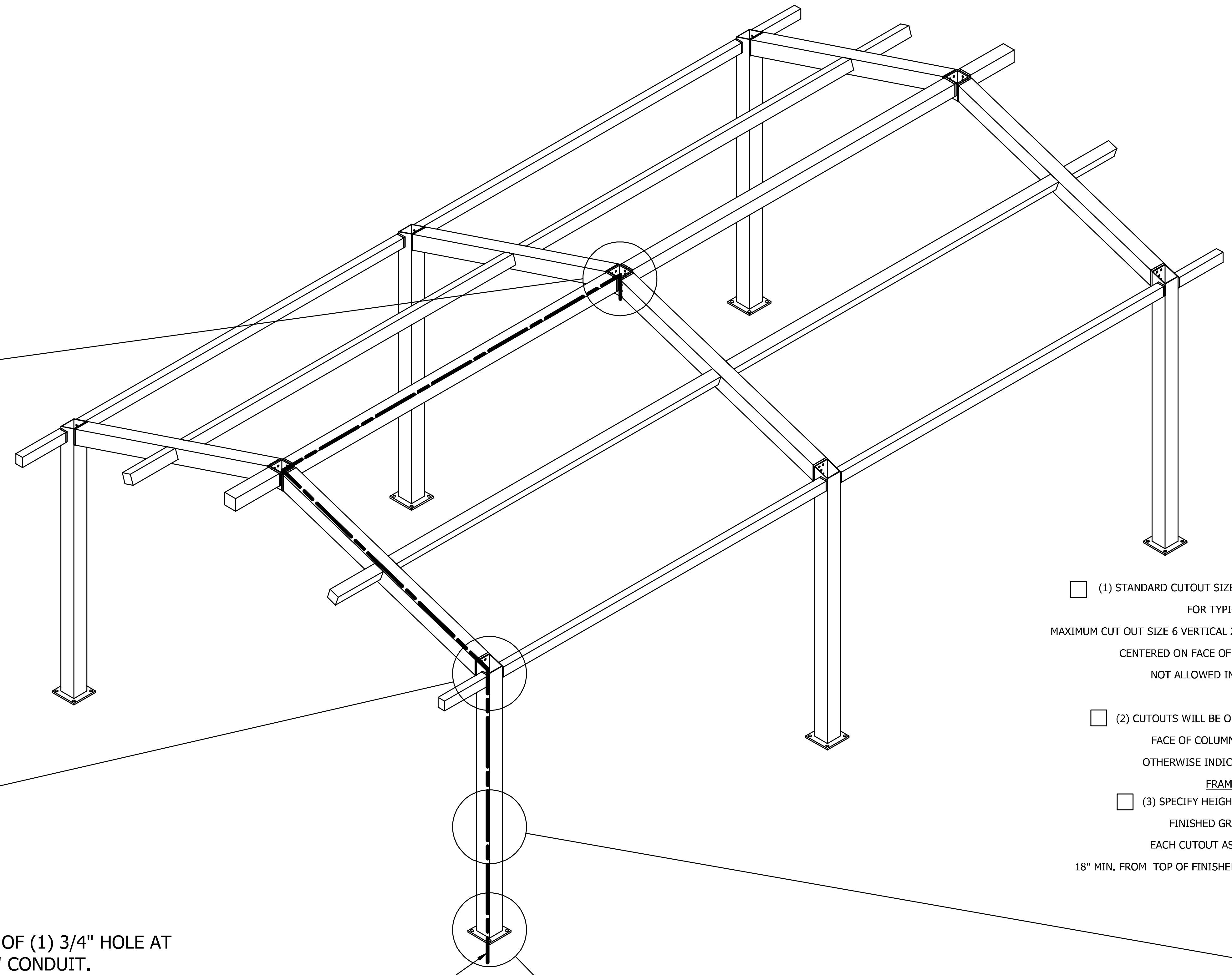
OPTIONAL EXIT HOLES

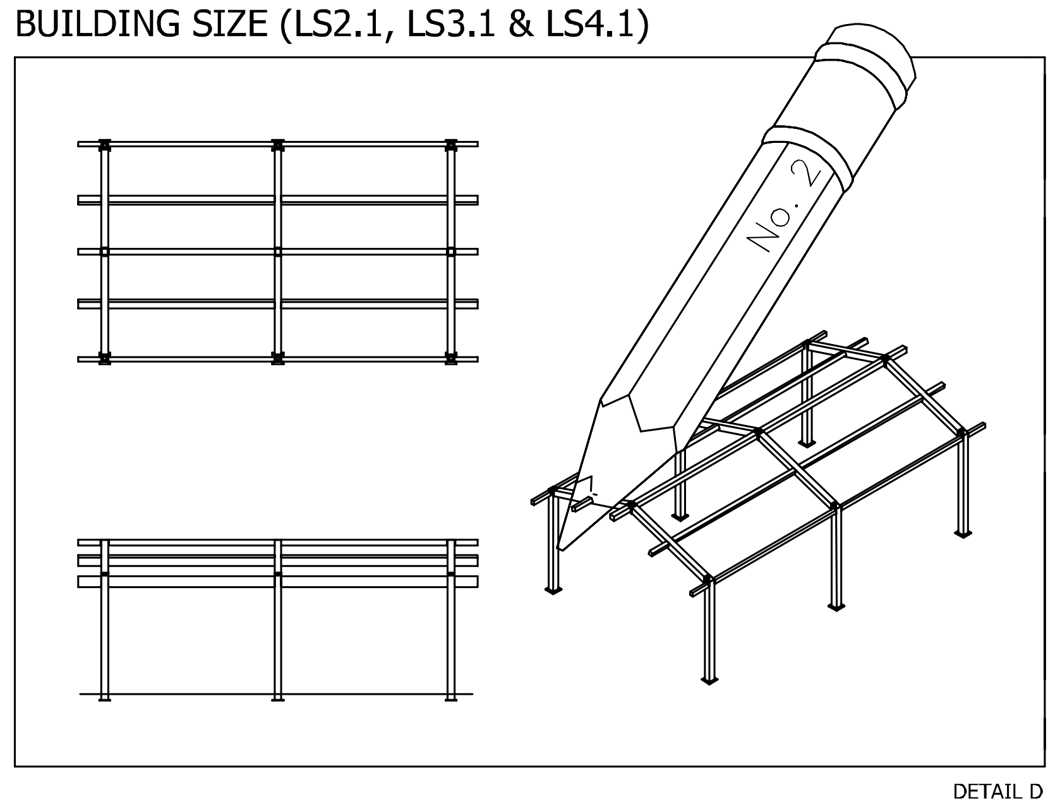
IF REQUIRED, EXIT HOLES FOR LIGHTING, ETC. CAN BE PLACED IN THE RIDGE BEAM AND/OR CONNECTOR TUBE WITH 14ga COVER PLATE AS SHOWN (CHARGES APPLY) USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY REQUIRED EXIT HOLE LOCATIONS AND SIZES.

(1) EXIT HOLE PER CONNECTOR
(2) EXIT HOLES PER RIDGE BEAM



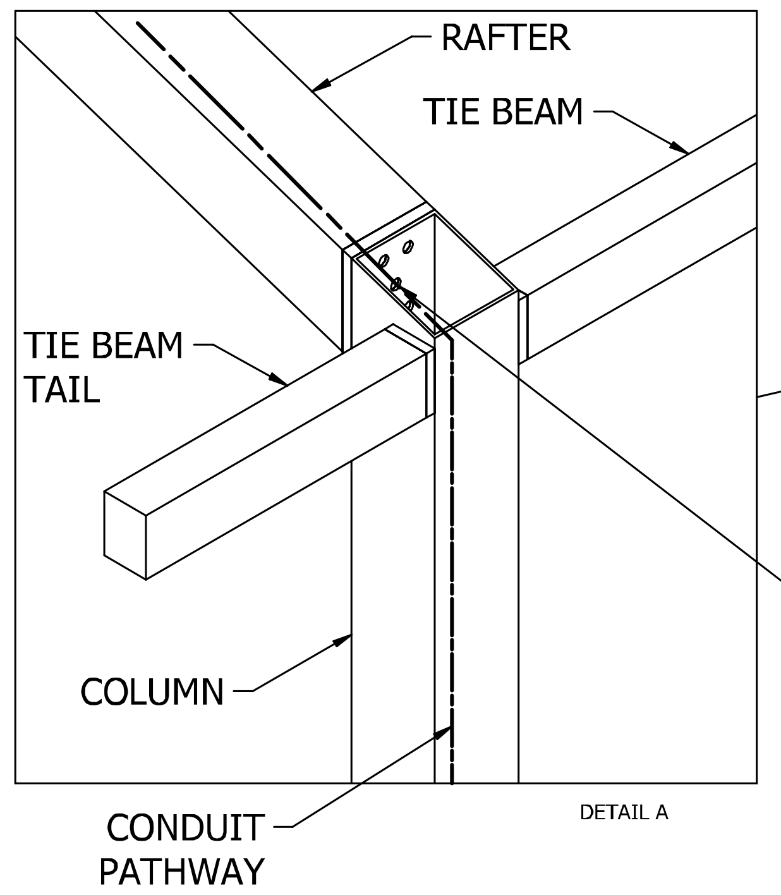
DETAIL B





☐ IF REQUIRED, PLEASE DRAW THE NECESSARY ELECTRICAL CONDUIT PATHWAY ON THE FRAME SHEET REQUIRED FOR BUILDING SIZE (LS2.1, LS3.1 & LS4.1)

DETAIL D

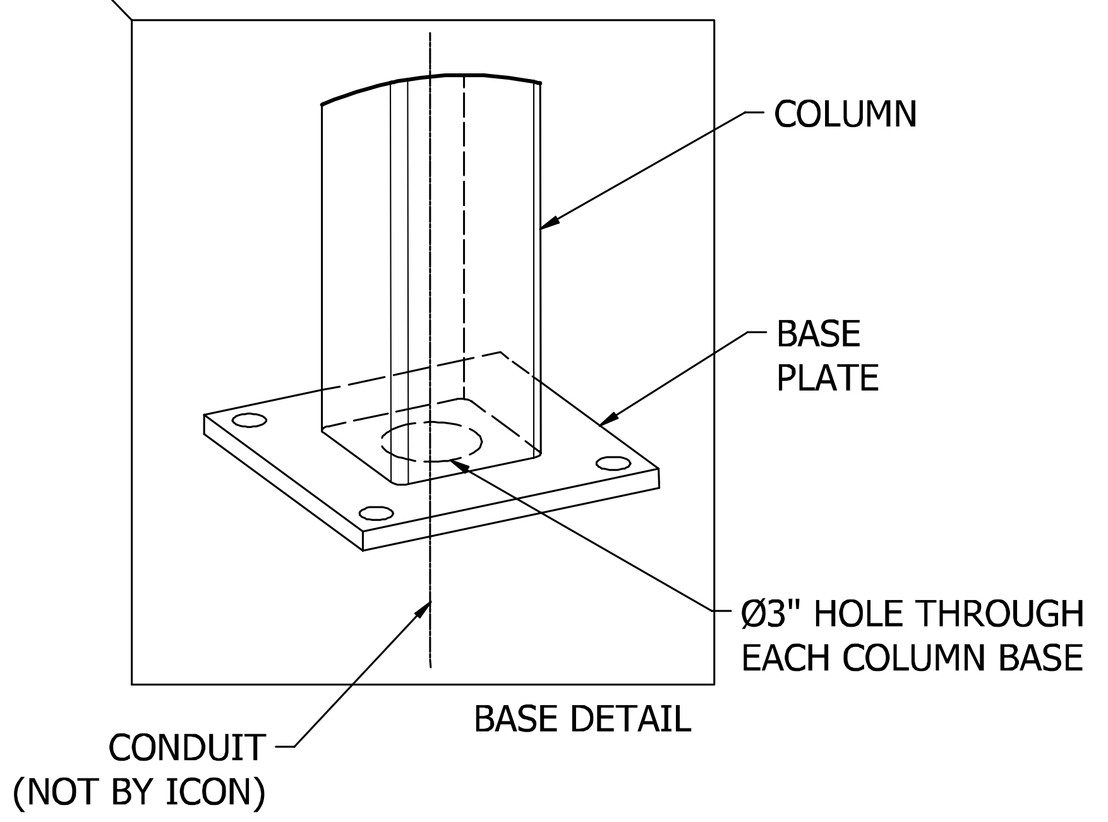


DETAIL A

ICON PROVIDES A MINIMUM OF (1) 3/4" HOLE AT EACH CONNECTION FOR 1/2" CONDUIT.
IF APPLICABLE, PLEASE SPECIFY REQUIRED CONDUIT SIZE: (CHARGES APPLY)

☐ 3/4" CONDUIT (1" HOLES)
☐ 1" CONDUIT (1 1/4" HOLES)

CONDUIT PATHWAY PROVIDED FOR EACH COLUMN.



BASE DETAIL

PROVIDE GROUNDING PER CEC ARTICLE 250

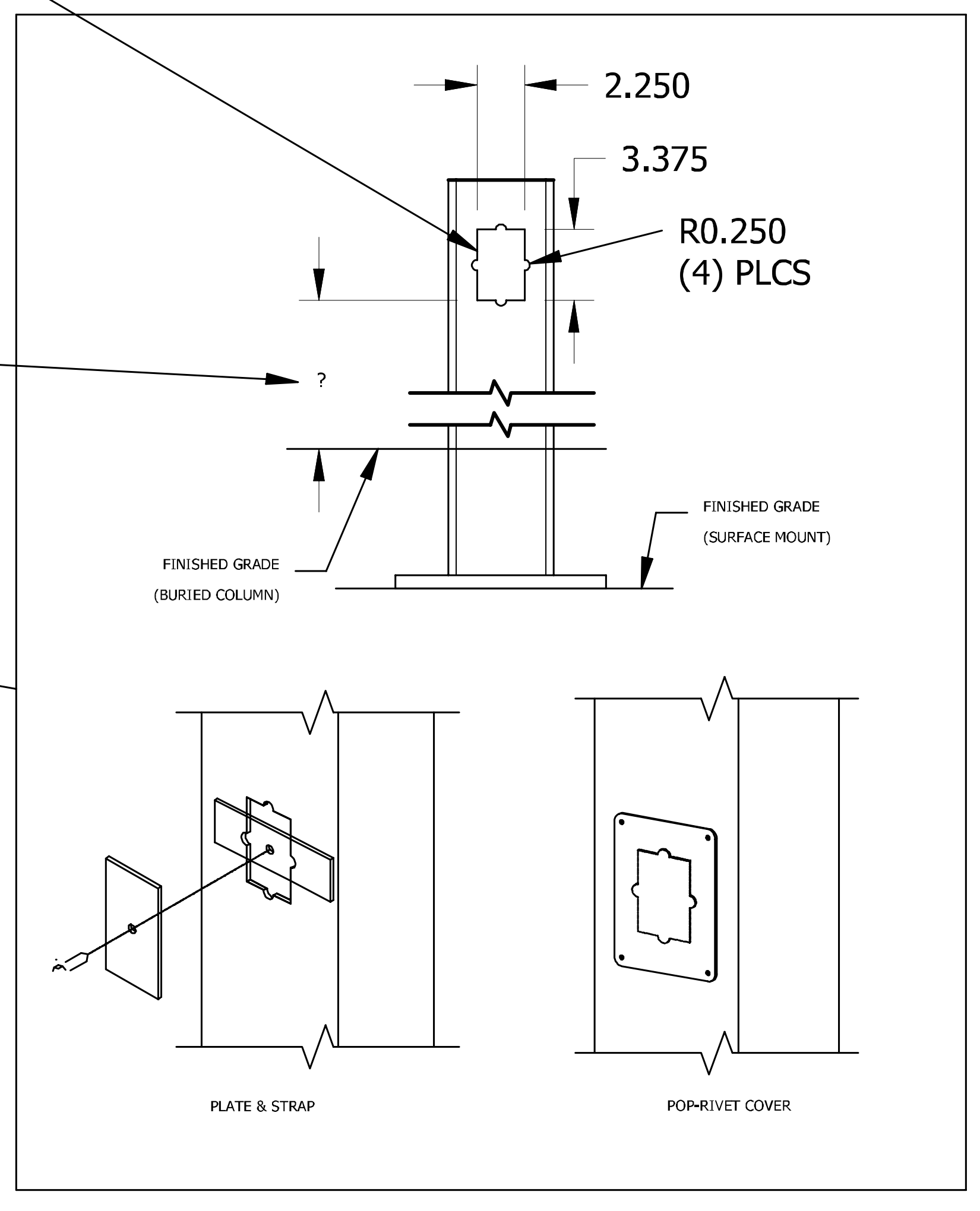
OPTIONAL CUTOUTS

USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY REQUIRED CUTOUT LOCATIONS (CHARGES APPLY)
SEE REQUIRED INFO BELOW

☐ (1) STANDARD CUTOUT SIZE SHOWN FOR TYPICAL GFCI
MAXIMUM CUT OUT SIZE 6 VERTICAL X 4 WIDE CENTERED ON FACE OF COLUMN NOT ALLOWED IN 6" FACE

☐ (2) CUTOUTS WILL BE ON INSIDE FACE OF COLUMN UNLESS OTHERWISE INDICATED ON FRAME SHEET.

☐ (3) SPECIFY HEIGHT ABOVE FINISHED GRADE FOR EACH CUTOUT AS SHOWN
18" MIN. FROM TOP OF FINISHED GRADE


2.250
3.375
R0.250
(4) PLCS
?
FINISHED GRADE (BURIED COLUMN)
FINISHED GRADE (SURFACE MOUNT)
PLATE & STRAP
POP-RIVET COVER

DETAIL C

(4) COVER PLATES PROVIDED UPON REQUEST (CHARGES APPLY)
PLEASE SPECIFY TYPE AND QUANTITY REQUIRED:

☐ PLATE & STRAP
☐ POP-RIVET COVER PLATE (STAINLESS POP RIVET)
HOW MANY REQUIRED?________

NOTE: BUILDING DEPICTED ON THIS SHEET FOR ILLUSTRATION PURPOSES ONLY. ACTUAL LAYOUT AND FRAME MEMBER QUANTITIES VARY BY DESIGN. PLEASE REFER TO ELEVATION AND FRAME SHEETS IN THIS PC FOR ORDER-SPECIFIC CONFIGURATION.

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OPTIONAL ELECTRICAL ACCESS

ICON Shelter Systems Inc
DISTINCTIVE STEEL SHELTERS
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