

VICINITY MAP

FRESNO COUNTY ENVIRONMENTAL COMPLIANCE CENTER PHASE 2 - OFFICE / STORAGE BUILDING

310 S. West Avenue
Fresno CA, 93706

PROJECT DATA:

PROJECT NAME:
FRESNO COUNTY ENVIRONMENTAL COMPLIANCE CENTER OFFICE STORAGE BUILDING

ADDRESS:
310 S. WEST AVENUE, FRESNO, CA. 93706

APN: 458-060-72

SITE AREA: 2.68 ACRE
(SITE WORK IS SUBMITTED UNDER SEPARATE PERMIT)

OFFICE/ STORAGE BUILDING AREA: 612 SF,
OFFICE/ STORAGE BUILDING OVERHANG AREA: 620 SF

TOTAL BUILDING AREA: 1232 SF.

TYPE OF CONSTRUCTION: V-B (SPRINKLERED)

OCCUPANCY GROUP: BUSINESS (B) / STORAGE (S)

ZONING: M-1 LIGHT MANUFACTURING DISTRICT

SCOPE OF WORK:

THE WORK CONSISTS OF CONSTRUCTION OF A NEW 612 SQUARE FEET OFFICE/ STORAGE BUILDING, SITE WORK AND OTHER BUILDINGS ON THE SITE ARE SUBMITTED UNDER SEPARATE PERMIT.

STRUCTURES UNDER SEPARATE PERMIT:

THE FOLLOWING STRUCTURES ARE SUBMITTED TO COUNTY OF FRESNO FOR APPROVAL AND ISSUANCE OF SEPARATE PERMITS:

1. PHASE 1: SITE AND SHADE STRUCTURE
2. PHASE 3: WAREHOUSE

DEFERRED APPROVAL:

1. FIRE SPRINKLERS: CONTRACTOR TO SUBMIT PLANS TO AND OBTAIN PERMIT FROM FRESNO COUNTY PRIOR TO INSTALLATION OF THE FIRE SPRINKLERS. LAYOUT AND DETAIL OF THE FIRE SPRINKLER SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT AND FRESNO FIRE DEPARTMENT (FFD) PRIOR TO SUBMITTING THE PLANS TO FRESNO COUNTY. THE FIRE SPRINKLER SYSTEM SHALL BE INSTALLED BY A LICENSED FIRE SPRINKLER CONTRACTOR AND SHALL BE INSPECTED AND APPROVED BY THE APPROPRIATE FIRE MARSHAL PRIOR TO APPROVAL OF OCCUPANCY OF THE BUILDING. SEE SPECIFICATIONS.
2. FIRE ALARMS: CONTRACTOR SHALL SUBMIT PLANS TO AND OBTAIN PERMIT FROM FRESNO COUNTY AND FRESNO FIRE DEPARTMENT FOR THE INSTALLATION OF FIRE ALARM SYSTEM. SEE SPECIFICATIONS. GENERAL CONTRACTOR SHALL COORDINATE FIRE ALARM SYSTEM INTERFACES BETWEEN FIRE ALARM CONTRACTOR, SPRINKLER CONTRACTOR, MECHANICAL CONTRACTOR AND ANY OTHER PERTINENT TRADES (FIRE ALARM, SPRINKLER SYSTEM, HOOD AND VENT EXTINGUISHING SYSTEM, HVAC, FIRE SMOKE DAMPERS, ETC.) ALL WORK MUST REMAIN VISIBLE AND MAY NOT BE COVERED UNTIL REQUIRED FIRE INSPECTIONS HAVE BEEN COMPLETED BY THE FIRE DEPARTMENT.

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO STRICTLY COMPLY WITH DIMENSIONS ON THE DRAWINGS RELATING TO ACCESSIBILITY ELEMENTS, DIMENSIONS THAT DO NOT SPECIFY "MINIMUM" (MIN) OR "MAXIMUM" (MAX) TOLERANCES SHALL BE CONSIDERED AS "ABSOLUTE". MINIMUM AND MAXIMUM DIMENSIONS SHALL BE CONSIDERED THE ABSOLUTE TOLERANCE LIMITS. ACCESSIBILITY ELEMENTS INSTALLED THAT DO NOT COMPLY WITH DIMENSIONAL CONSTRAINTS SHALL BE REMOVED AND REINSTALLED WITH NO ADDITIONAL COST TO THE COUNTY OF FRESNO.
2. CHANGES FROM THE APPROVED PLANS DURING THE COURSE OF CONSTRUCTION SHALL CAUSE CONSTRUCTION SPECIFIC TO THE AREA OF CHANGE TO BE SUSPENDED UNTIL SUCH TIME AS THE PLANS CAN BE AMENDED BY THE ARCHITECT AND SUBMITTED TO THE COUNTY FOR REVIEW AND APPROVAL [CBC 107].
3. THE CONTRACTOR SHALL PROVIDE (1) ONE NFPA CLASS 2A-10BC FIRE EXTINGUISHER AT THE JOB SITE DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE WORK SITE IN A SECURED CONDITION.
5. CFC CHAPTER 33, FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION AND CBC CHAPTER 33, SAFEGUARDS DURING CONSTRUCTION SHALL BE STRICTLY FOLLOWED.
6. THE APPROVAL OF THESE PLANS AND SPECIFICATIONS DOES NOT PERMIT THE VIOLATION OF ANY SECTION OF THE BUILDING CODE, MUNICIPAL ORDINANCES, OR STATE LAWS.
7. THESE APPROVED PLANS AND RELATED DOCUMENTS MUST BE AVAILABLE AT THE JOB SITE DURING ANY INSPECTION ACTIVITY.
8. SOILS AND SPECIAL CONCRETE TESTING SHALL BE CONDUCTED BY THE FRESNO COUNTY MATERIALS AND TESTING LABORATORY.
9. STEEL FABRICATION SPECIAL INSPECTION SHALL BE CONDUCTED BY KRAZAM AND ASSOCIATES, 215 WEST DAKOTA AVENUE CLOVIS, CA 93612 (559-348 2200)
10. CONTRACTOR SHALL PROVIDE A CHEMICAL TOILET ON SITE DURING CONSTRUCTION.
11. CONSTRUCTION WASTE MANAGEMENT PLAN MUST BE FINALIZED PRIOR TO OCCUPANCY.

FRESNO FIRE DEPARTMENT NOTES:

1. SUBMIT PLANS TO AND OBTAIN PERMIT FROM THE FIRE PREVENTION DIVISION FOR THE INSTALLATION OR MODIFICATION OF FIRE SPRINKLER SYSTEM. INSTALLATIONS MUST ALSO COMPLY WITH FFD POLICY SECTION 405. FFD POLICIES CAN BE FOUND ON THE FIRE DEPARTMENT WEBSITE UNDER FIRE PREVENTION & INVESTIGATION, FIRE DEPARTMENT POLICIES.
2. SUBMIT PLANS TO AND OBTAIN PERMIT FROM THE FIRE PREVENTION DIVISION FOR THE INSTALLATION OR MODIFICATION OF FIRE ALARM SYSTEM. SEE FFD POLICY 401.012.
3. THE GENERAL CONTRACTOR SHALL COORDINATE THE FIRE ALARM SYSTEM INTERFACES BETWEEN THE FIRE ALARM CONTRACTOR, SPRINKLER CONTRACTOR, MECHANICAL CONTRACTOR AND ANY OTHER PERTINENT TRADES (FIRE ALARM, SPRINKLER SYSTEM, HOOD AND VENT EXTINGUISHING SYSTEM, HVAC, FIRE SMOKE DAMPERS, ETC.). ALL WORK MUST REMAIN VISIBLE AND MAY NOT BE COVERED UNTIL THE REQUIRED FIRE INSPECTIONS HAVE BEEN COMPLETED BY THE FIRE DEPARTMENT.
4. EMERGENCY ALARM SYSTEM INTERCONNECTION REQUIREMENTS: WHERE AN EMERGENCY ALARM SYSTEM IS REQUIRED BY THIS SECTION AND A BUILDING FIRE ALARM IS INSTALLED, THE EMERGENCY ALARM SYSTEM SHALL BE INTERCONNECTED WITH AND SUPERVISED BY THE BUILDING FIRE ALARM SYSTEM. FMC 10-50408.4 AND NFPA SECTIONS 10.1 AND 10.10, IF APPLICABLE.
5. ALL WEATHER ACCESS ROADS SHALL BE INSTALLED AND MAINTAINED IN A SERVICEABLE CONDITION PRIOR TO AND DURING CONSTRUCTION. (FFD DEVELOPMENT POLICY 403.002)
6. ADDRESS IDENTIFICATION. FOR NEW AND EXISTING BUILDINGS, THE FIRE CODE OFFICIAL IS AUTHORIZED TO REQUIRE APPROVED ADDRESS OR BUILDING IDENTIFICATION SIGNAGE AS NEEDED TO READILY DETERMINE THE BUILDING OR AREA OF A BUILDING PROTECTED BY FIRE DEPARTMENT CONNECTIONS. FMC SECTION 10-50412.2.3.

CODE CITATIONS:

THE LATEST ADOPTED ADDITIONS OF THE CODES, STANDARDS AND REGULATIONS REQUIRED BY THE LOCAL JURISDICTION SHALL GOVERN ALL WORK IN THESE CONSTRUCTION DOCUMENTS INDICATED BY THE FOLLOWING.

APPLICABLE STATE CODES:

- TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
- TITLE 24 CCR, PART 1 - 2019 BUILDING STANDARDS ADMINISTRATIVE CODE
- TITLE 24 CCR, PART 2 - 2019 CALIFORNIA BUILDING CODE (CBC)
- TITLE 24 CCR, PART 3 - 2019 CALIFORNIA ELECTRICAL CODE (CEC)
- TITLE 24 CCR, PART 4 - 2019 CALIFORNIA MECHANICAL CODE (CMC)
- TITLE 24 CCR, PART 5 - 2019 CALIFORNIA PLUMBING CODE (CPC)
- TITLE 24 CCR, PART 6 - 2019 CALIFORNIA ENERGY CODE
- TITLE 24 CCR, PART 9 - 2019 CALIFORNIA FIRE CODE (CFC)
- TITLE 24 CCR, PART 11 - 2019 CALIFORNIA GREEN BUILDING STANDARDS
- TITLE 24 CCR, PART 12- 2019 CALIFORNIA REFERENCED STANDARDS

APPLICABLE CODE OF ORDINANCE:

COUNTY OF FRESNO ORDINANCE TITLE 15

APPLICABLE REFERENCE STANDARDS:

- 2019 NFPA 13, AUTOMATIC SPRINKLER SYSTEMS (CA AMENDED)
- 2019 NFPA 12, NATIONAL FIRE ALARM CODE (CA AMENDED); SEE UL STD. 1911 FOR "VISUAL DEVICES"

SHEET INDEX:

60.0 COVER

ARCHITECTURAL SHEETS 13 SHEETS

- A1.1 REFERENCE OVERALL SITE PLAN (SUBMITTED AS PHASE 1)
- A1.2 REFERENCE ENLARGED SITE PLAN (SUBMITTED AS PHASE 1)
- A2.1 FLOOR PLANS & ELEVATIONS
- A2.2 REFLECTED CEILING PLAN & ROOF PLAN
- A3.1 INTERIOR ELEVATIONS & FINISH SCHEDULE
- A3.2 DOOR SCHEDULE & WINDOW ELEVATION
- A3.3 TYPICAL DETAILS
- A4.1 BUILDING SECTIONS & WALL SECTIONS
- A4.2 WALL SECTIONS
- A4.3 CANOPY DETAILS
- A5.1 CALGREEN COMPLIANCE SHEET 1
- A5.2 CALGREEN COMPLIANCE SHEET 2
- A5.3 CALGREEN COMPLIANCE SHEET 3

STRUCTURAL SHEETS 3 SHEETS

- S2.1 FOUNDATION PLAN & DETAILS
- S2.2 ROOF FRAMING PLAN, CEILING FRAMING PLAN & DETAILS
- S2.3 CANOPY DETAILS

PLUMBING SHEETS 3 SHEETS

- P1.2 OFFICE/ STORAGE BUILDING PLUMBING PLAN
- P2.0 OFFICE/ STORAGE BUILDING PLUMBING SCHEDULES AND DETAILS
- P2.1 OFFICE/ STORAGE BUILDING RISER DETAILS

MECHANICAL SHEETS 5 SHEETS

- M1.0 OFFICE/ STORAGE/ TOILET ROOM BUILDING MECHANICAL PLAN
- M2.0 OFFICE BUILDING MECHANICAL SCHEDULES AND DETAILS
- M2.1 MECHANICAL SCHEDULES AND DETAILS
- M2.2 MECHANICAL TITLE 24
- M2.3 MECHANICAL TITLE 24

ELECTRICAL SHEETS 6 SHEETS

- E1.1 OFFICE/ STORAGE BUILDING ELECTRICAL NOTES AND SYMBOLS
- E1.2 LIGHTING SCHEDULES AND DETAILS
- E1.3 POWER DETAILS AND SCHEDULES
- E1.4 TITLE 24 COMPLIANCE DOCUMENTS
- E1.5 TITLE 24 COMPLIANCE DOCUMENTS
- E2.1 OFFICE/ STORAGE BUILDING ELECTRICAL PLANS

TOTAL: 31 SHEETS

CONTRACT DOCUMENTS:

ARCHITECT OF RECORD:

TIANA L. PEREZ, ARCHITECT

CALIFORNIA LICENSED ARCHITECT NO. C-38000
REN. 01-31-23
FRESNO COUNTY DEPARTMENT OF PUBLIC WORKS & PLANNING DEVELOPMENT SERVICES AND CAPITAL PROJECTS DIVISION
2220 TULARE STREET, EIGHTH FLOOR
FRESNO, CALIFORNIA 93721
OFFICE: (559) 600-4536
E-MAIL: TPEREZ@FRESNOCOUNTY.CO

CONSULTANTS:

CIVIL / LANDSCAPE ENGINEER OF RECORD:

LARS ANDERSEN & ASSOCIATES, INC.
DANIEL ZOLDAK
LIC.# RCE 66124
4694 W. JAGGIELYN AVE.
FRESNO CA, 93722
OFFICE: 559-216-2190
E-MAIL: LAINF@LARSANDERSEN.COM

MECHANICAL / PLUMBING ENGINEER OF RECORD:

LAWRENCE ENGINEERING GROUP
MICHAEL CANTEMI
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7084 NORTH MAPLE AVENUE, SUITE 101
FRESNO CA, 93720
OFFICE: 559-431-0101
E-MAIL: MIKE@LEGFRESNO.COM

ELECTRICAL ENGINEER OF RECORD:

HARDIN DAVIDSON ENGINEERING
SCOTT DAVIDSON
LIC.# E11850
356 POLLASKY AVENUE SUITE 200
CLOVIS CA, 93612
OFFICE: 559-323-4495
E-MAIL: 5D@HARDIN-DAVIDSON.COM

ARCHITECTURAL CONSULTANT:

DYSON & JANZEN ARCHITECTS
1245 N. WISHON AVE. SUITE 101
FRESNO CA, 93728
OFFICE: 559-447-6370
E-MAIL: ADYSON@DYSONJANZEN.COM

The Information on this Drawing is acceptable and shall define the Scope of Work to develop this Project. Any significant changes to the Scope of Work shall be approved by the Client Department.

Submitted by: _____
Title: _____

Date: _____

Accepted by: _____
Title: _____
Date: _____



Fresno County Environmental Compliance Center Phase 2: Office / Storage Building

Project Address: 310 S. West Avenue, Fresno CA 93706
APN: 458-060-72
Issue Date:
Project No. T90203
File Path: G:Capital \ Projects \ Building Numbers \ American Ave Landfill \ T90203 Environmental Compliance Center\ 00 2018 ECC

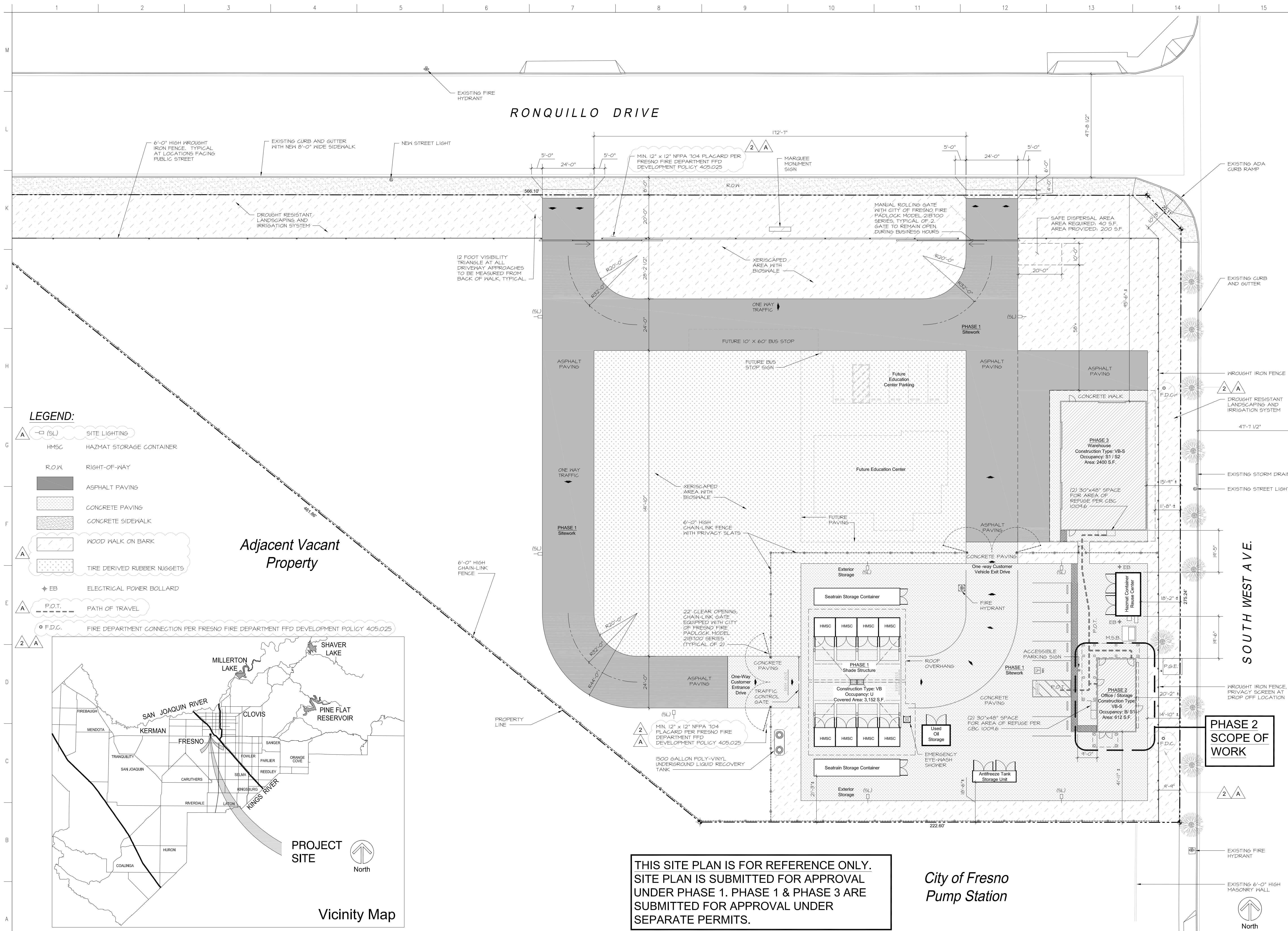
Sheet Content:
Cover Sheet

Fresno County Department of Public Works and Planning Capital Projects

2220 Tulare Street, 8th Floor
Fresno, California 93721

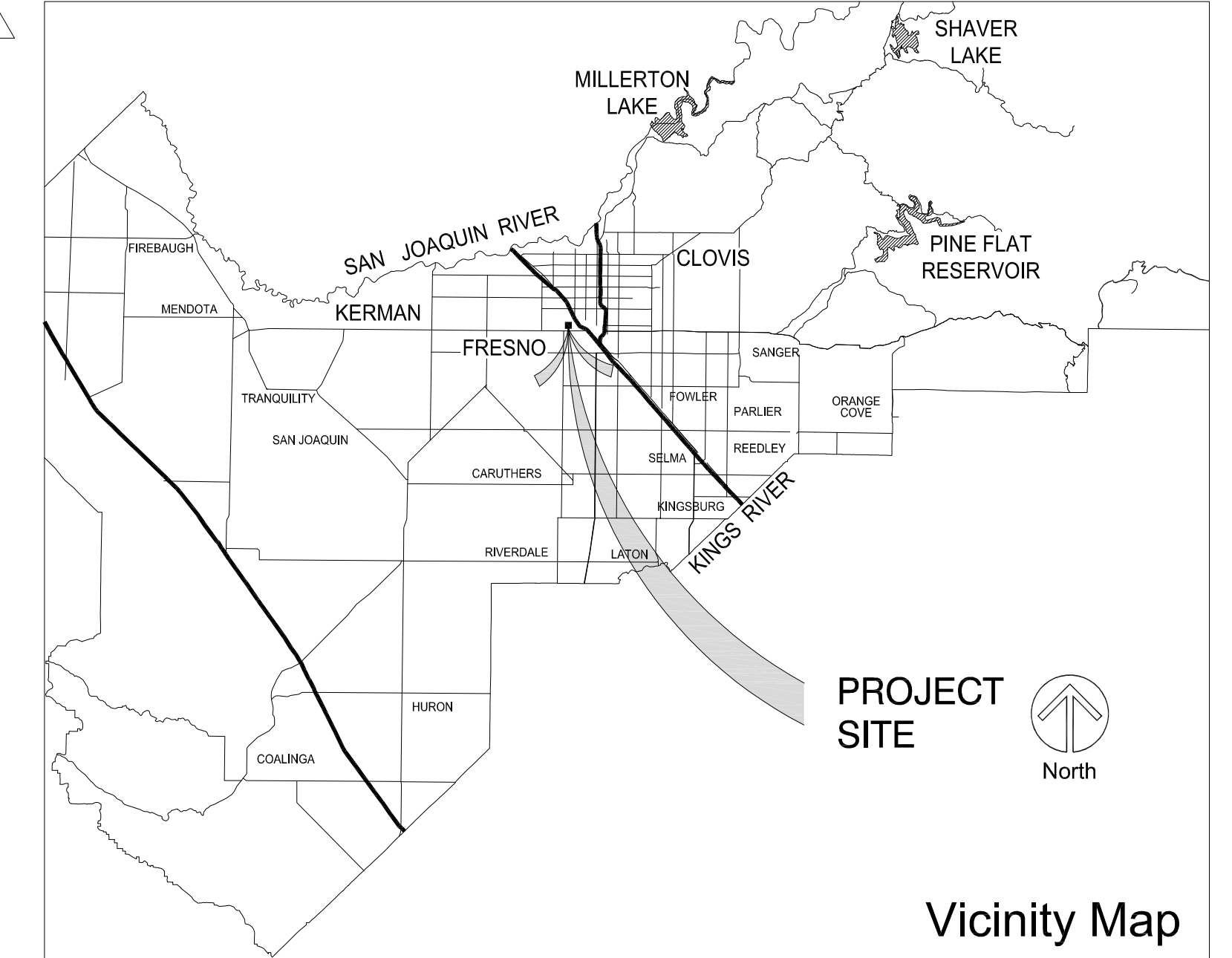
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2	Bid Addendum 2 5-21-2021	A	Plan Review Corrections 5-21-2021
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- LEGEND:**
- SITE LIGHTING
 - HMSC HAZMAT STORAGE CONTAINER
 - R.O.W. RIGHT-OF-WAY
 - ASPHALT PAVING
 - CONCRETE PAVING
 - CONCRETE SIDEWALK
 - WOOD WALK ON BARK
 - TIRE DERIVED RUBBER NUGGETS
 - EB ELECTRICAL POWER BOLLARD
 - P.O.T. PATH OF TRAVEL
 - F.D.C. FIRE DEPARTMENT CONNECTION PER FRESNO FIRE DEPARTMENT FFD DEVELOPMENT POLICY 405.025

Adjacent Vacant Property



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City of Fresno
Pump Station

FRESNO FIRE NOTES:

- TURNS IN PRIVATE DRIVES FOR FIRE APPARATUS ACCESS SHALL HAVE MINIMUM 44'-0" CENTERLINE TURN RADIUS.
- EMERGENCY VEHICLES ACCESS SHALL BE DESIGNATED BY PAINTING THE CURB RED (TOP AND SIDE) AND STENCILING FIRE LANE NO PARKING IN 3 INCHES WHITE LETTERS ON THE MOST VERTICAL CURB, AT LEAST EVERY 50 FEET. IF NO CURB IS PRESENT, A MINIMUM 6 INCHES WIDE RED STRIPE SHALL BE PAINTED ALONG THE EDGE OF THE ROADWAY WITH "FIRE LANE" IN 3 INCHES WHITE LETTERS AT LEAST EVERY 50 FEET. (FFD DEVELOPMENT POLICY 403.005)
- PROVIDE APPROVED POLICE/FIRE BY PASS ("BEST" PADLOCK MODEL 2B100 SERIES OR ELECTRIC CYLINDER SWITCH MODEL INTB2) ON DRIVE ACCESS GATES. ALL ELECTRIFIED SHALL BE EQUIPPED WITH BEST ELECTRIC CYLINDER LOCK INTB2. A KNOX PADLOCK MAY NOT BE USED IN PLACE OF THE BEST PADLOCK MODEL 2B100. THESE LOCKS CAN BE PURCHASED ONLY THROUGH SIERRA LOCK AND GLASS, 1560 N. PALM AVENUE, FRESNO CA 93712.
- PROVIDE SIGNS ITX22" MINIMUM AT ALL PUBLIC ENTRANCE DRIVES TO THE PROPERTY WHICH STATE "WARNING - VEHICLES STOPPED, PARKED OR LEFT STANDING IN FIRE LANES WILL BE IMMEDIATELY REMOVED AT OWNER'S EXPENSE - 22656(A) CALIFORNIA VEHICLE CODE - FRESNO POLICE DEPARTMENT 621-2300".
- FIRE HYDRANTS AND ACCESS ROADS SHALL BE INSTALLED, TESTED AND APPROVED AND SHALL BE MOUNTED SERVICEABLE PRIOR TO AND DURING ALL PHASES OF DEVELOPMENT THE 4 1/2 INCH OUTLET SHALL FACE THE ACCESS LANE.
- THE PROPOSED ON SITE HYDRANTS SHALL BE EQUIPPED WITH AN 8 INCH MAIN AND A FIRE FLOW OF 1500 GPM.
- NFPA 704 FLAGARDS ARE FURNISHED BY OWNER, CONTRACTOR TO INSTALL.

LICENSED ARCHITECT

 ARCHITECT:
 Tiana L. Perez, Architect
 California Licensed Architect No. C-38000
 Ren. 01-31-23
 Fresno County Department of
 Public Works & Planning
 Development Services and
 Capital Projects Division
 2220 Tulare Street, Eighth Floor
 Fresno, California 93721
 Office: (559) 600-4536
 E-mail: tperez@fresnocountyca.gov

Fresno County Environmental Compliance Center Phase 2: Office / Storage Building

Project Address: 310 S. West Avenue, Fresno CA 93706
 APN: 458-060-72
 Issue Date:
 Project No. T90203
 File Path: C:\Capital 1\Projects 1\Building Numbers 1\American Ave Landfill 1\T90203 Environmental Compliance Center 00 2018 ECC

Sheet Content:
 Reference Overall Site plan

Fresno County Department of Public Works and Planning Capital Projects

2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No.
A1.1

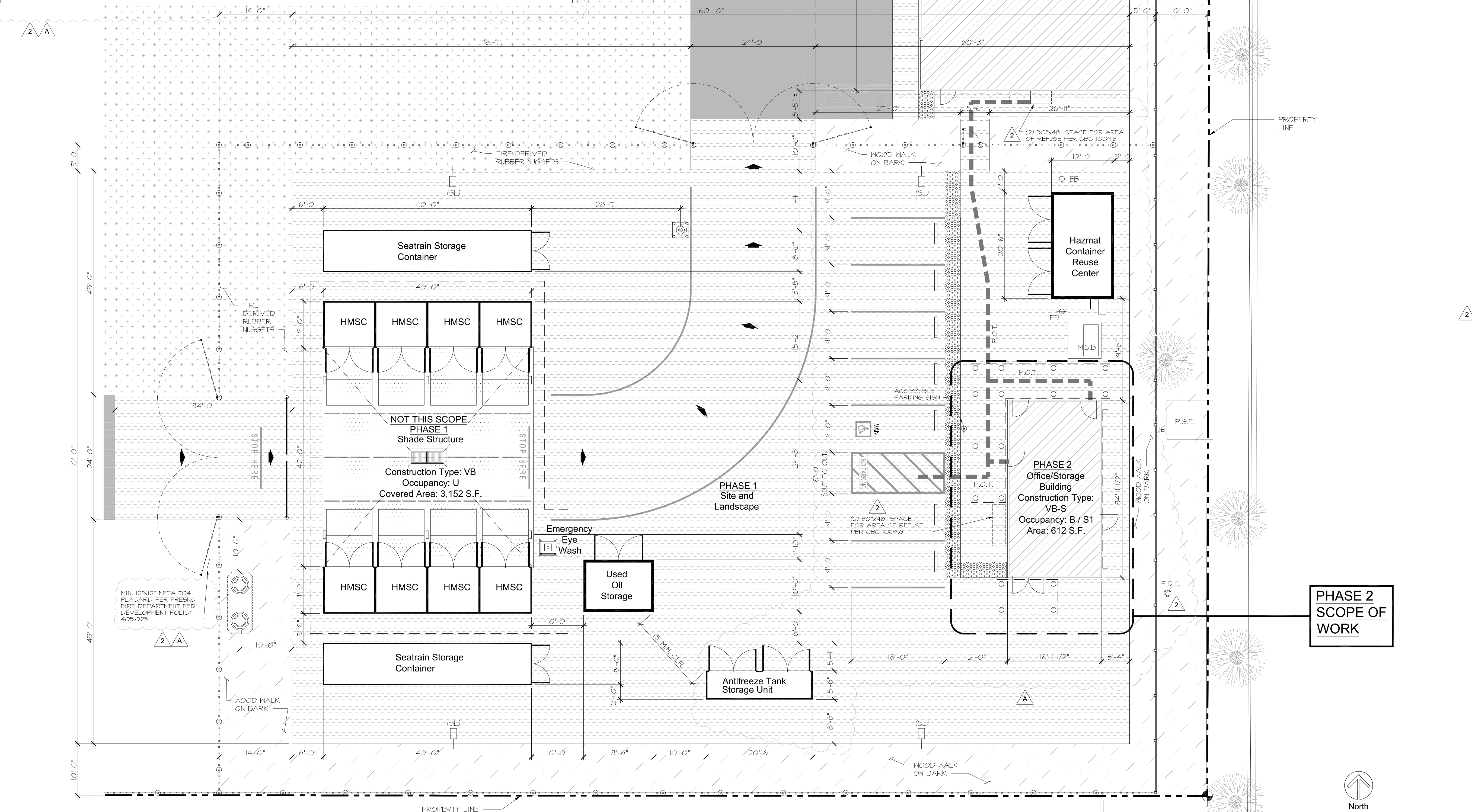
Bid Addendum 2 5-21-2021
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LIST OF CONTENTS STORED AT THE FACILITY

Warehouse
 Building type: VB
 Occupancy: S
 Materials Planned to be stored include the following: No Flammable and no Explosive.
A. Universal Waste
 • Dry cell batteries
 • Fluorescent bulbs
 • Ballasts
 • Metal cabinets
B. E-Waste
 • Used computers
 • Used electronics
 • Small appliances
 • Battery operated items
 • Flat screen tv's
 • Mattresses
Office Building & Storage
 Building type: VB
 Occupancy: B & S
 Materials Planned to be stored in the storage include the following:
 • Clothing
 • Personal protective gear
 • Safety glasses
 • Gloves
 • Tyvek Suits
 • Plastic trash bags
 • Soap
 • Absorbent and spill remediation materials

Type of Waste	No. of Containers/Weight	Type of Container
Motor Oil	1	1,000 g AST
Automotive Coolant	1	140 gallons
U-waste, Electronics	4000	Lbs.
U-waste Lamps	2000	Linear feet in boxes/drums
Alkaline Batteries	8	55 gal drum
Rechargeable Batteries	4	55 gal drum
Corrosive Acid	8	55 gal drum
Corrosive Base	17	55 gal drum
Cyanide	1	5 gal drum
Aerosols	1	55 gal drum
Flammable Liquid	6	55 gal drum
Flammable Solid	1	Cubic yard
Fertilizer Solids	2	55 gal drum
Latex Paint	20	Cubic yard
Lead Acid Batteries	1	Box of 32
Oil Base Paint	30	Cubic yard
Oxidizer Liquid	1	30 gal drum
Oxidizer Solid	1	30 gal drum
Poison Liquid	25	55 gal drum
Poison Solid	25	Cubic yard
PCB Ballasts	1	55 gal drum
Non-RCRA Oil	6	55 gal drum
Asbestos Roof Tar	1	55 gal drum

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- GENERAL NOTES:**
- SWING GATES AT BOTH ENTRY AND EXIT GATE LOCATIONS SHALL BE EQUIPPED WITH A CITY OF FRESNO FIRE DEPARTMENT LOCK.
 - THERE SHALL BE NO VERTICAL OFFSET GREATER THAN 1/2" ALONG THE ENTIRE PATH OF TRAVEL FROM THE PUBLIC WAY/ACCESSIBLE PARKING STALL INTO THE OFFICE BUILDING OR TOILET BUILDING.
 - ENTIRE SURFACE BETWEEN CONCRETE SLAB AND FENCE SHALL BE 2" MINIMUM GRAVEL (CLASS II AGGREGATE) OVER 10 MIL. BLACK VISQUEEN. VISQUEEN SHALL BE LAPPED A MINIMUM OF 36" INCHES AT SEAMS. VISQUEEN SHALL BE LAID OVER MACHINE COMPACTED SOIL FOLLOWING GRADES SHOWN ON CIVIL DRAWINGS. VISQUEEN SHALL NOT BE VISIBLE ONCE GRAVEL HAS BEEN PLACED. COMPACTION TESTING WILL NOT BE REQUIRED.
 - THIS PERMIT DOES NOT INCLUDE ANY HIGH-PILE STORAGE (PER CFC) OR RACK STORAGE OVER 8 FEET IN HEIGHT. ANY SUCH PROPOSED STORAGE WILL REQUIRE SUBMITTAL OF PLANS AND APPLICATION FOR PERMIT(S). 2019 CFC, CHAPTER 32.

- LEGEND:**
- (SL) SITE LIGHTING
 - HMSC HAZMAT STORAGE CONTAINER
 - R.O.W. RIGHT-OF-WAY
 - ASPHALT PAVING
 - CONCRETE PAVING
 - WOOD WALK ON BARK
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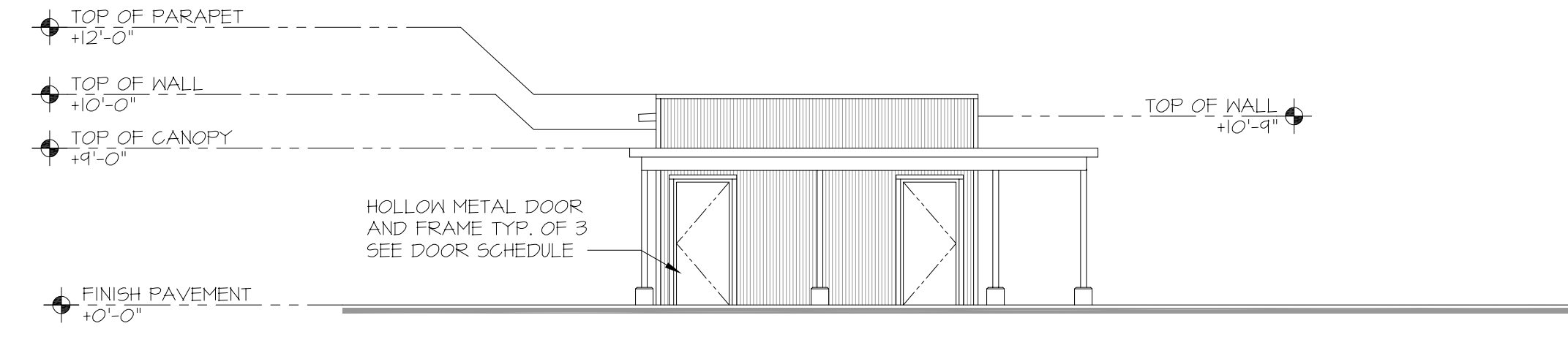
LICENSED ARCHITECT
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 STATE OF CALIFORNIA
 ARCHITECT:
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Fresno County Environmental Compliance Center
Phase 2: Office / Storage Building
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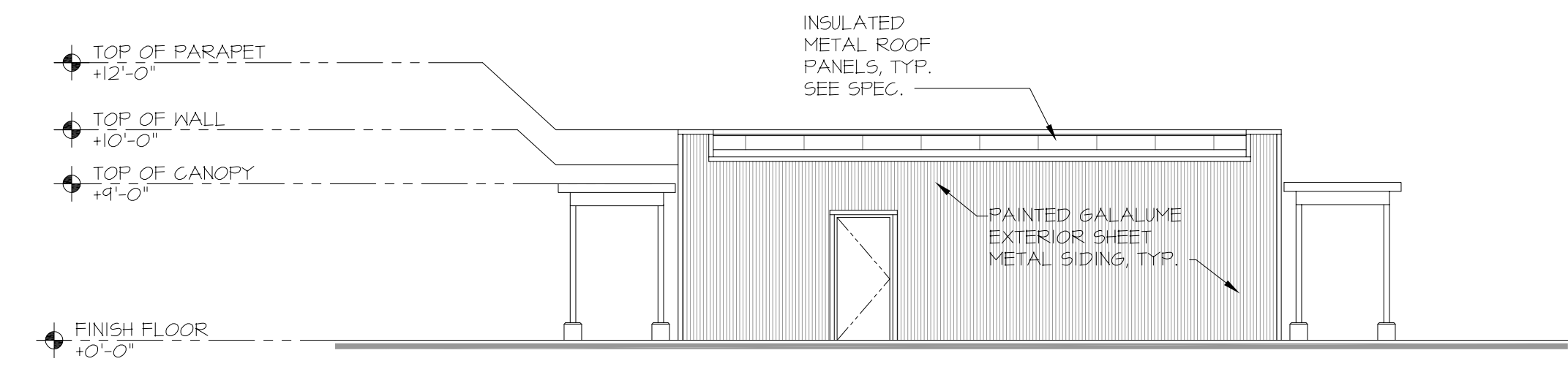
Sheet Content:
 Reference Enlarged Site plan

Fresno County Department of
 Public Works and Planning
 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

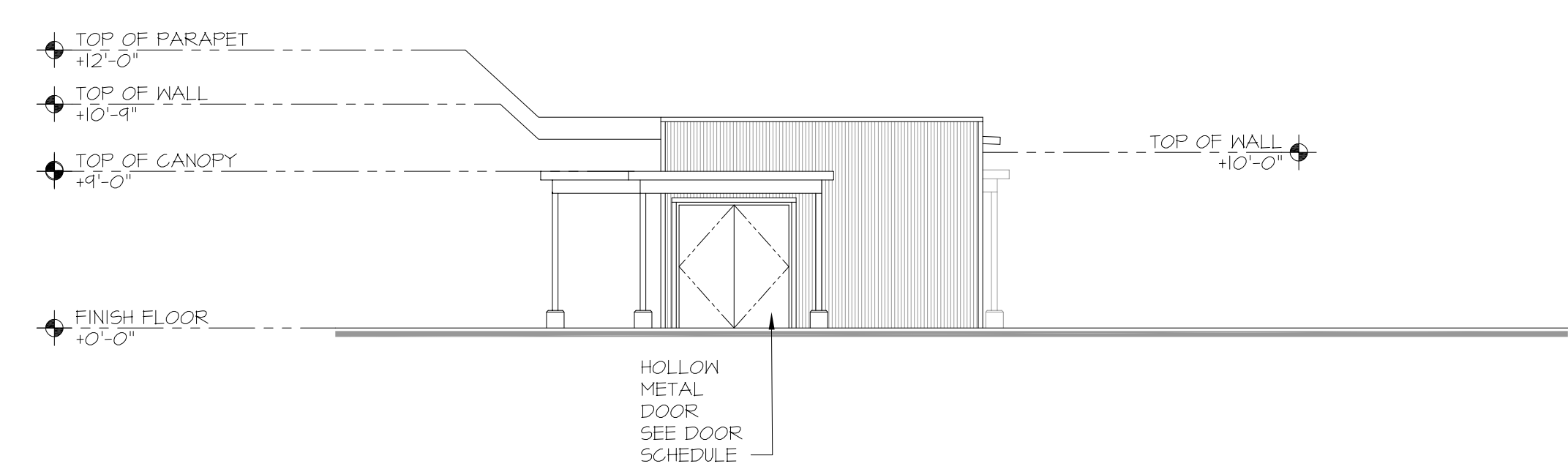
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 Plan Review Corrections 5-21-2021



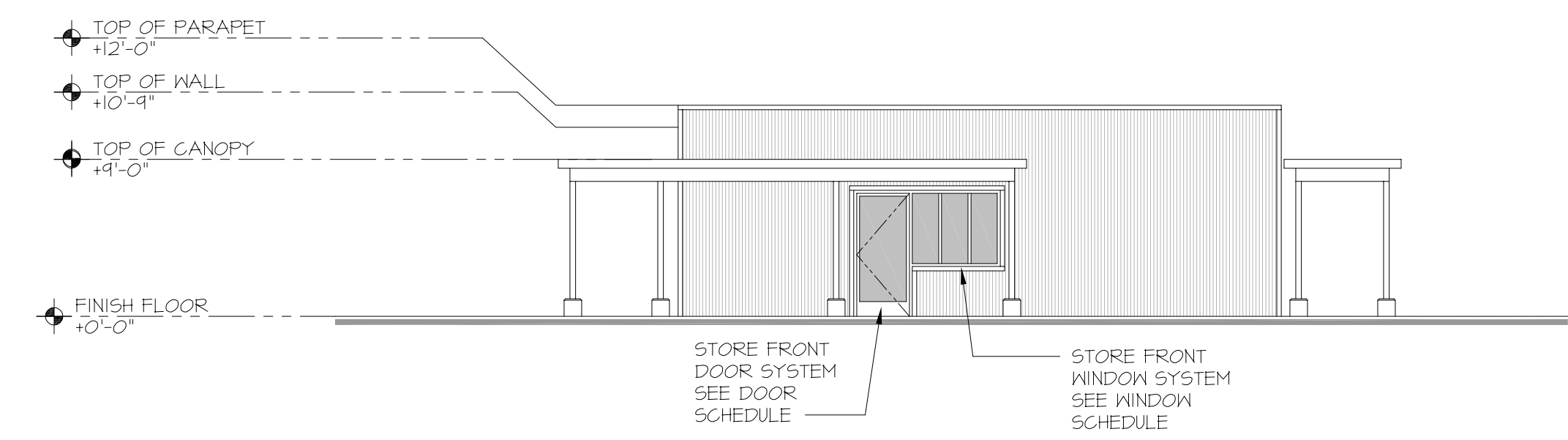
J1 North Elevation
Scale: 1/8" = 1'-0"



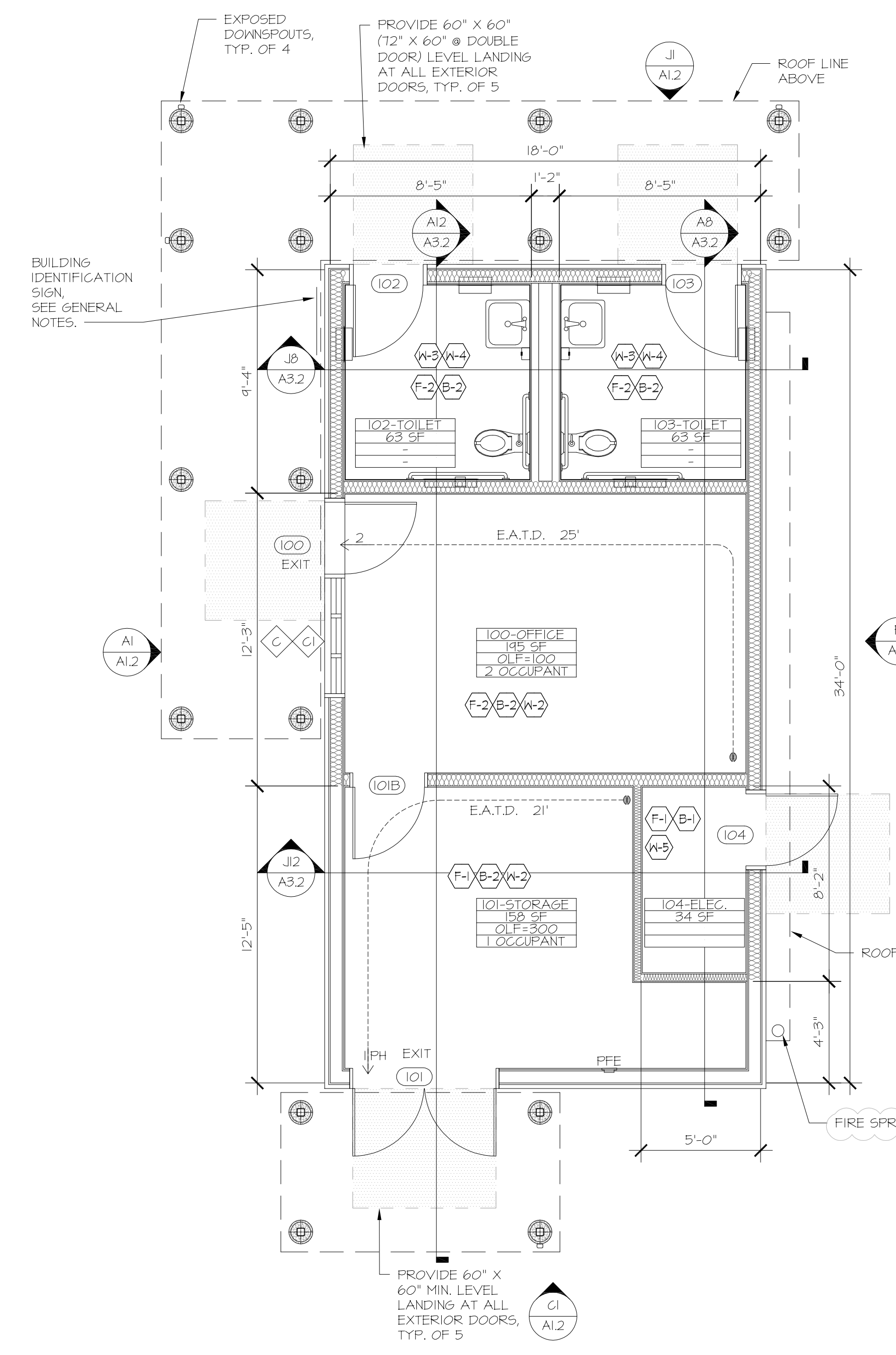
F1 East Elevation
Scale: 1/8" = 1'-0"



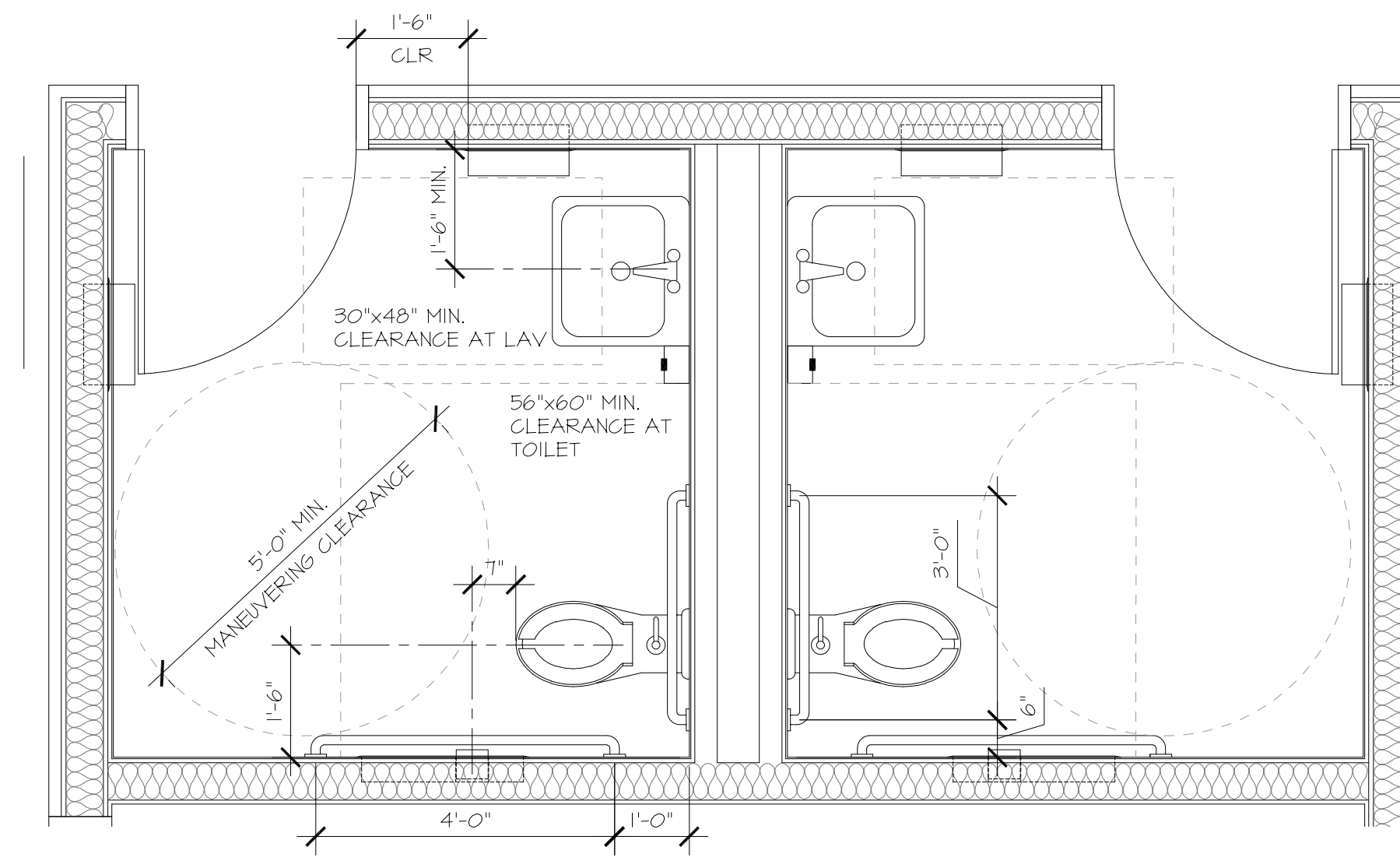
C1 South Elevation
Scale: 1/8" = 1'-0"



A1 West Elevation
Scale: 1/8" = 1'-0"



D8 Floor Plan
Scale: 1/4" = 1'-0"



A8 Typical Floor Plan of All Gender Toilet Room
Scale: 1/2" = 1'-0"

FLOOR PLAN GENERAL NOTES

- A. SEE FINISH SCHEDULE FOR FINISHES INDICATED BY FINISH SYMBOL (X-X) ON SHEET A3.1.
- B. SEE DETAIL D4 ON SHEET A3.3 FOR ACCESSIBLE MOUNTING HEIGHT REQUIREMENTS FOR ALL TOILET ROOM FIXTURES & ACCESSORIES. MOUNT ALL ACCESSORIES PER ACCESSIBLE REQUIREMENTS.
- C. PROVIDE MINIMUM 2A IOB, G PORTABLE FIRE EXTINGUISHER WHERE NOTED.
- D. BUILDING IDENTIFICATION SIGN TO BE 18"x24" 2MM THICK ALUMINUM WITH MOUNTING SCREWS FACTORY PAINTED FOR EXTERIOR USE. OWNER TO PROVIDE BUILDING IDENTIFICATION INFO PRIOR TO CONSTRUCTION.

EGRESS CALCULATIONS

GROSS FLOOR AREA: 630 S.F.

OCCUPANCY GROUP: (B) BUSINESS
(S) STORAGE

TYPE V-B CONSTRUCTION / NON-SPRINKLERED

OCCUPANCY

FLOOR AREA (ENCLOSED)	612 S.F.
ROOF OVERHANG (UNOCCUPIED)	617 S.F.
BUILDING TOTALS	1,229 S.F.
OCCUPANCY	(B) AND (S)
BUILDING PERIMETER	104'
ACTUAL # OF STORIES (HEIGHT)	1 (13')
AUTOMATIC FIRE SPRINKLER	YES
ALLOWABLE TOTAL BUILDING AREA	36,000 S.F.

AREA AND OCCUPANT LOAD TABLE

PRIMARY USE	SQ. FOOTAGE	FACTOR	OCC. LOAD
OFFICE	204 S.F.	100 (N)	2
STORAGE	208 S.F.	300 (N)	1
TOTAL OCC. LOAD			3

EGRESS DOOR CALC'S

EXIT 1	REQUIRED OPENING	1 X 0.2 = 0.2'
	PROVIDED OPENING	36"
EXIT 2	REQUIRED OPENING	2 X 0.2 = 2'
	PROVIDED OPENING	36"

- EGRESS LEGEND**
- ## DENOTES OCCUPANT LOAD THROUGH DOOR/ EXIT OR CUMULATIVE OCCUPANT LOAD ALONG COMMON PATH OF TRAVEL. PANIC HARDWARE (PH) WHERE INDICATED
 - PFPE DENOTES PORTABLE FIRE EXTINGUISHER AT 40" MAX. A.F.F. TO TOP OF EXTINGUISHER (4" MAX. PROJECTION) WITH A 75 - FOOT MAX. TRAVEL DISTANCE
 - FA FIRE ALARM
 - MO MOST REMOTE LOCATION AND PATH OF EGRESS TRAVEL
 - C.P.E.T. COMMON PATH OF EGRESS TRAVEL
 - E.A.T.D. EXIT ACCESS TRAVEL DISTANCE

LICENSED ARCHITECT
TIANA L. PEREZ
STATE OF CALIFORNIA
C-38000
REN: 01-31-23

ARCHITECT:
Tiana L. Perez, Architect
California Licensed Architect No. C-38000
Fresno County Department of
Public Works & Planning
Development Services and
Capital Projects Division
2220 Tulare Street, Eighth Floor
Fresno, California 93721
Office: (559) 600-4536
E-mail: tperez@fresnocountyca.gov

Fresno County Environmental Compliance Center Phase 2: Office / Storage Building

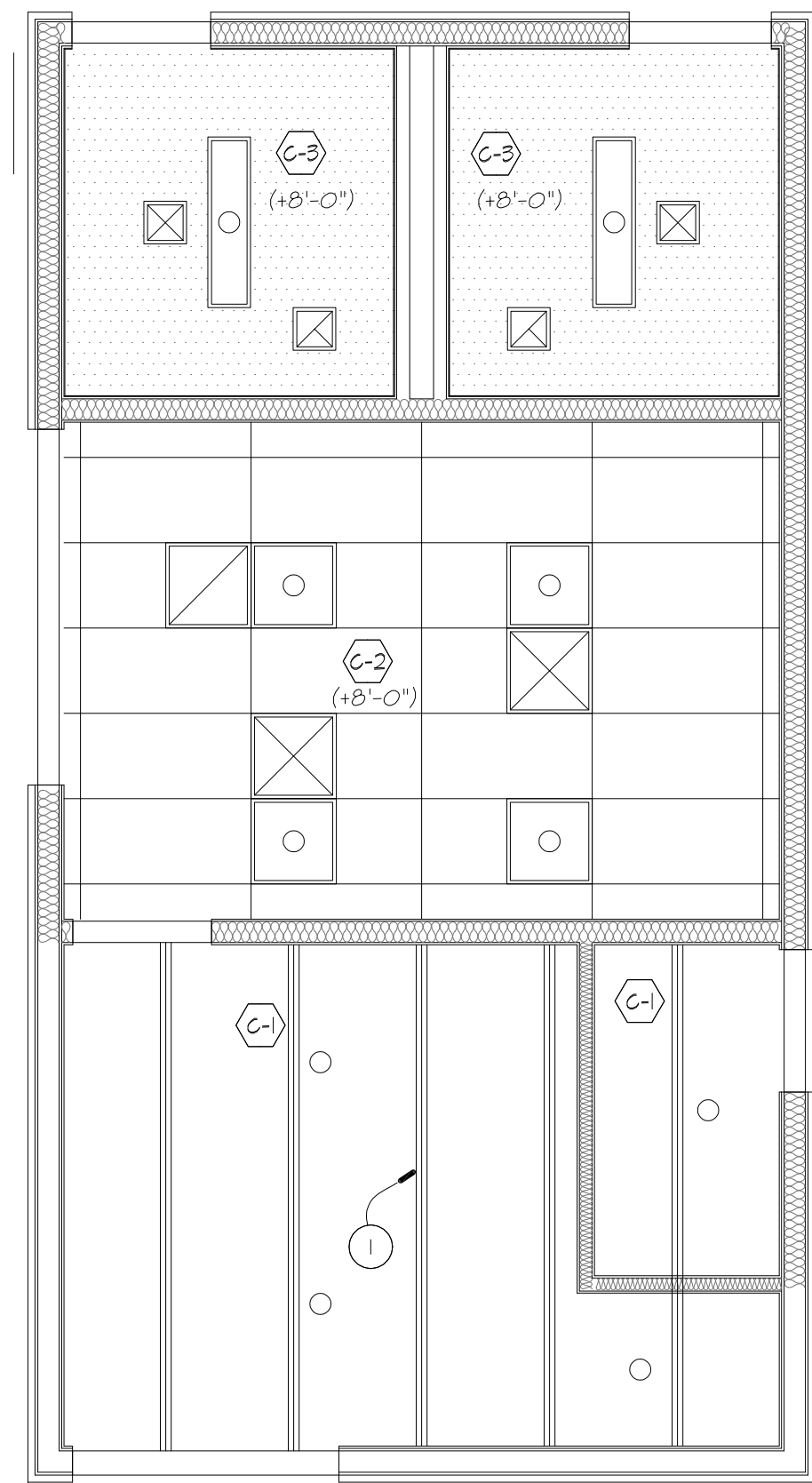
Project Address: 310 S. West Avenue, Fresno CA 93706
APN: 458-060-72
Issue Date:
Project No. T90203
File Path: G:Capital \ Projects \ Building Numbers \ American Ave Landfill \ T90203 Environmental Compliance Center \ 00 2018 ECC

Sheet Content:
Floor Plans and Elevations

Fresno County Department of Public Works and Planning
Capital Projects
2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.
A2.1

2	Bid Addendum 2 5-21-2021	1	Plan Review Corrections 5-21-2021
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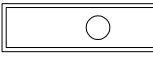




REFLECTED CEILING PLAN KEYNOTES (X)

1. ROOF FRAMING MEMBERS.

REFLECTED CEILING PLAN GENERAL NOTES

A. SEE FINISH SCHEDULE FOR FINISHES INDICATED BY FINISH SYMBOL (X-X) ON SHEET A3.1.

REFLECTED CEILING PLAN LEGEND:

-  Recessed light fixture
-  Surface mounted light fixture
-  Chain mounted light fixture
-  HVAC supply grille
-  HVAC exhaust grille
-  Exhaust fan

ROOF PLAN KEYNOTES (X)

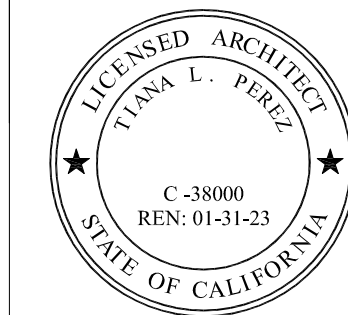
- 1. PARAPET.
- 2. INSULATED METAL PANELS.
- 3. METAL STANDING SEAM PANELS.
- 4. METAL GUTTER.
- 5. G.I. DOWNSPOUT (MIN. 22GA.), PAINT.

A8 Roof Plan

Scale: 1/4" = 1'-0"

VAN

NO PARKING



ARCHITECT:
Tiana L. Perez, Architect
California Licensed Architect No. C-38000
REN: 01-31-23
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Fresno County Environmental Compliance Center Phase 2: Office / Storage Building

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Sheet Content:
Reflective Ceiling Plan & Roof Plan

Fresno County Department of Public Works and Planning
Capital Projects



2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.
A2.2

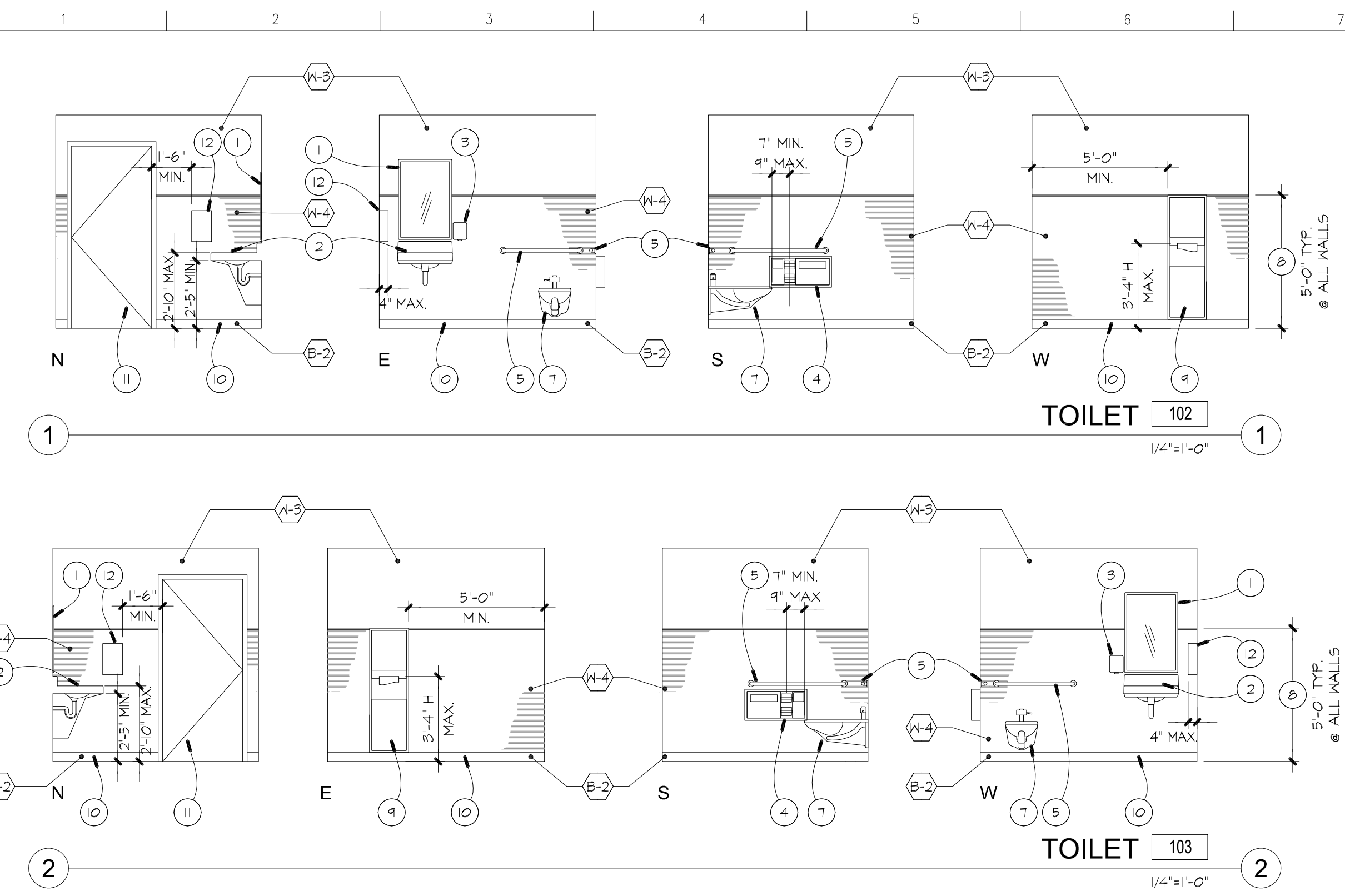
2	Bid Addendum 2 5-21-2021	A	Plan Review Corrections 5-21-2021
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Drawn by: MR (DJA)

Plotted on: 05.21.2021

A1 Reflective Ceiling Plan

Scale: 1/4" = 1'-0"



INTERIOR ELEVATION KEY NOTES

1. WALL-HUNG MIRROR. SEE GENERAL NOTE B.
2. WALL MOUNTED ACC. LAVATORY w/ AUTOMATIC SENSOR FAUCETS. SEE GENERAL NOTE B & PLUMBING DRAWINGS.
3. SOAP DISPENSER, FURNISHED AND INSTALLED BY OWNER, N.I.C. SEE GENERAL NOTE B.
4. RECESSED TOILET SEAT DISPENSER, TOILET PAPER DISPENSER, DISPOSAL COMBO. SEE GENERAL NOTE B.
5. GRAB BARS. SEE GENERAL NOTE B.
6. NOT USED.
7. ACCESSIBLE WALL HUNG TOILET w/ AUTOMATIC FLUSH VALVE. SEE GENERAL NOTE B & PLUMBING DRAWINGS.
8. DECORATIVE PROTECTION PANEL WAINSCOT.
9. SEMI-RECESSED DUAL PAPER TOWEL DISPENSER/ TRASH RECEPTACLE. SEE GENERAL NOTE B.
10. RUBBER BASE. SEE FINISH SCHEDULE.
11. DOOR. SEE DOOR SCHEDULE.
12. ELECTRIC HAND DRYER. SEE GENERAL NOTE B & ELECTRICAL DWGS.

INTERIOR ELEVATION GENERAL NOTES

- A. SEE FINISH SCHEDULE FOR FINISHES INDICATED BY FINISH SYMBOL SHEET A3.1.
- B. SEE DETAIL D4 ON SHEET A3.3 FOR ACCESSIBLE MOUNTING HEIGHT REQUIREMENTS FOR ALL TOILET ROOM FIXTURES & ACCESSORIES. MOUNT ALL ACCESSORIES PER ACCESSIBLE REQUIREMENTS.

H1 TOILET ROOM INTERIOR ELEVATIONS

ITEM	CODE	DESCRIPTION	REMARKS
FLOOR	F-1	EXPOSED CONCRETE WITH CLEAR SATIN CONCRETE SEALER	-
	F-2	LENUEM MODULAR FLOORING	FORBO, MARMOLEUM STRIATO TEXTURA, THICKNESS 2.5MM, SIZE 14" W X 105" L, OR APPROVED EQUAL.
BASE	B-1	NO BASE	-
	B-2	4" RUBBER RESILIENT BASE	JOHNSONITE RESILIENT BASE, TYPE "MILLWORK", PROFILE "SILHOUETTE", OR APPROVED EQUAL.
WALLS	W-1	NOT USED	-
	W-2	LATEX PAINT	o/ GYPSUM BOARD (LEVEL 5 FINISH TYP. U.N.O.)
	W-3	ENAMEL SEMI-GLOSS PAINT	o/ GYPSUM BOARD (LEVEL 5 FINISH TYP. U.N.O.)
	W-4	DECORATIVE PROTECTION PANEL WAINSCOT	FORMICA HARDSTOP BUTT JOINT SEAMS WITH WATER PROOF CAULK, OR APPROVED EQUAL. TRIM AT TOP BOTTOM AND CORNERS.
	W-5	3/4" A-C PLYWOOD	HEIGHT 8'-0"
CEILING	C-1	NO INTERIOR FINISH, EXPOSED ROOF FRAMING	-
	C-2	SQUARE EDGE LAY-IN SUSPENDED ACOUSTICAL TILE CEILING SYSTEM	IN T-BAR GRID (2x2 or 2x4)
	C-3	PAINT W-3 o/ 5/8" F.R. GYP. BD. CEILING o/ METAL FRAMING.	LEVEL FINISH TYP. U.N.O.
	C-4	36" WIDE EXTERIOR LINEAR FORMED RIBBED 26 GA. METAL PANEL SOFFIT	-
MISC.	M-1	ENAMEL (ACRYLIC) PAINTED H.M. DOOR/FRAMES	PAINT H.M. DOORS AND FRAMES

H10 ROOM FINISH SCHEDULE See (XX) symbol on Floor Plan, Reflected Ceiling Plan and Interior Elevations

- A
1. ALL STAIN PAINT, SEALER AND ACCENT COLORS SHALL BE AS SELECTED BY ARCHITECT.
 2. ALL INTERIOR FINISHES SHALL BE AS SELECTED BY ARCHITECT/OWNER FROM ACTUAL PRODUCT SAMPLE SUBMITTALS PROVIDED BY CONTRACTOR. ALL PAINT MATERIAL SHALL BE EPA APPROVED AND AS RECOMMENDED BY THE MANUFACTURER TO PROVIDE A SUITABLE AND DURABLE FINISH FOR ITS INTENDED APPLICATION.
 3. CONTRACTOR(S) SHALL SUPPLY 5 COPIES MINIMUM OF FULL COLORS/ TEXTURES/ SAMPLE RANGES FOR ARCHITECT'S SELECTION. ALL SAMPLES SHALL BE ACTUAL MATERIALS/ COLORS AND NOT PHOTO REPRODUCTIONS.
 4. ALL GYPSUM BOARD UNLESS OTHERWISE SPECIFICALLY NOTED ON THIS SCHEDULE OR IN DRAWINGS SHALL BE 5/8" TYPE "X" FIRE RATED. INSTALL WATER RESISTANT GYPSUM BOARD (ON BOTH SIDES WHERE GYPSUM BOARD IS CALLED OUT) THROUGHOUT TOILET WALLS, AND PLUMBING WALLS.
 5. ALL EXPOSED METAL SHALL BE PRIMED AND PAINTED, COLORS AS SELECTED BY ARCHITECT/OWNER.
 6. PREPARE ALL FLOORS PRIOR TO COVERING, CLEAN AND FILL, LEVEL UNEVENNESS w/ FLOOR COVERING MANUFACTURER RECOMMENDED, APPROVED MATERIALS. SEAL FLOORS w/ MFR APPROVED VAPOR EMISSIONS TREATMENT WHERE MOISTURE OR PH TESTS ARE OUTSIDE OF ACCEPTABLE RANGE.
 7. MINIMUM PAINT/STAIN COAT FINISHES ARE INDICATED IN SPECS. CONTRACTOR(S) SHALL APPLY ADDITIONAL COATS AS REQUIRED TO ENSURE/ MAINTAIN / PROVIDE EVENNESS OF COLOR /FINISH ETC. TO THE ACCEPTANCE OF THE OWNER AND ARCHITECT.
 8. GYPSUM BOARD FINISHES: SAMPLES (3 EACH) SHALL BE PREPARED FOR REVIEW AND CHOICE BY OWNER AND ARCHITECT, BUT GENERALLY SHALL BE:
 - A. STANDARD PAINTED WALLS AND CEILINGS ----- MEDIUM ORANGE PEEL TEXTURE.
 - B. TOILET ROOMS AND ENAMELED WALLS ----- SMOOTH SAND, LIGHT ORANGE PEEL TEXTURE.
 - C. UNDER OTHER WALL COVERINGS ----- TAPED, SANDED SMOOTH AND SIZED OR SEALED FOR FINISH.
 10. FLAME SPREAD & SMOKE DEVELOPED CLASSIFICATION: ALL FINISHES SHALL HAVE A CLASS "C" FLAME SPREAD & SMOKE DEVELOPED CLASSIFICATION OF 450 OR BETTER TO MEET CBC SECTION 808 REQUIREMENTS. ALL DECORATIVE MATERIAL MUST BE FLAME RETARDANT TREATED.
 11. PROVIDE RUBBER REDUCERS AT CHANGES IN FLOOR MATERIALS FOR CLEAN, SMOOTH TRANSITION EXCEPT WHERE OTHER TRANSITION ARE SPECIFICALLY INDICATED.

D10 FINISH SCHEDULES NOTES

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California Licensed Architect No. C-38000
Ren. 01-31-23
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**Fresno County
Environmental Compliance Center
Phase 2: Office / Storage Building**

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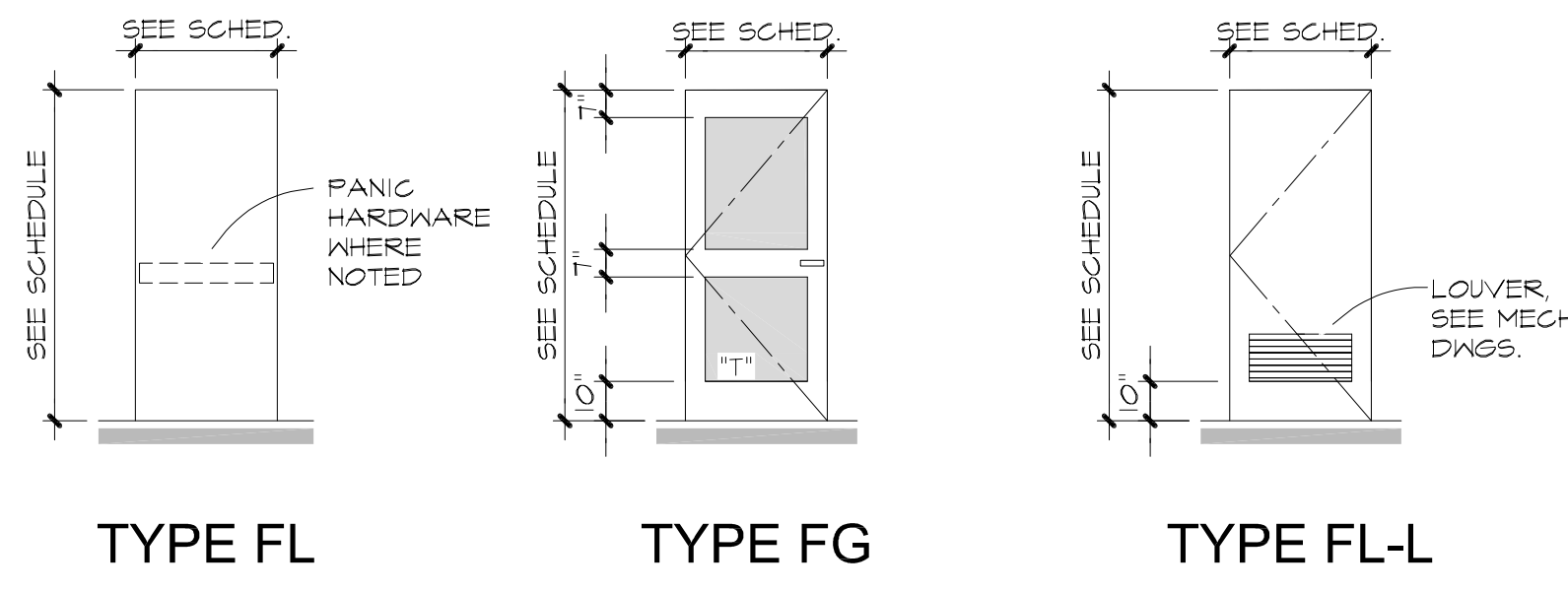
Sheet Content:
Interior Elevations
& Finish Schedule

Fresno County Department of
Public Works and Planning
Capital Projects

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.
A3.1

2	Bid Addendum 2 5-21-2021	A	Plan Review Corrections 5-21-2021
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TYPE	NO.	QTY.	SIZE	DOOR TYPE	DOOR MATERIAL	FRAME		RATED ASSEMBLY	DETAILS		THRSHLD	SIGNAGE TYPE	HARDWARE GROUP	REMARKS
						MAT'L.	ELEV.		HEAD	JAMB				
EXT.	100	1	3'-0"X7'-0"X 3/4"	FG	AL	AL	2	-	K12/A3.3	F9/A3.3	A4/A3.3	S4, S6	1.0	LEVER HARDWARE, CLOSURE
	101	1-PR	3'-0"X7'-0"X 3/4"	FL-L	HM	HM	3	-	A12/A3.3	A9/A3.3	A4/A3.3	S4, S6	2.0	PANIC HARDWARE, CLOSURE, COORDINATOR
	102	1	3'-0"X7'-0"X 3/4"	FL	HM	HM	1	-	A12/A3.3	A9/A3.3	A4/A3.3	S1, S2 & S3	4.0	PRIVACY LOCK
	103	1	3'-0"X7'-0"X 3/4"	FL	HM	HM	1	-	A12/A3.3	A9/A3.3	A4/A3.3	S1, S2 & S3	4.0	PRIVACY LOCK
INT.	104	1	3'-0"X7'-0"X 3/4"	FL	HM	HM	1	-	A12/A3.3	A9/A3.3	A4/A3.3	S4, S6	3.0	ELECTRIFIED LEVER HARDWARE HIRSCH CARD READER TO BE INSTALLED BY OWNER
	101B	1	3'-0"X7'-0"X 3/4"	FL	HM	HM	1	-	A7/A3.3	A7/A3.3	-	S4, S6	5.0	LEVER HARDWARE

L6 DOOR SCHEDULE SEE (XX) SYMBOL ON FLOOR PLANS

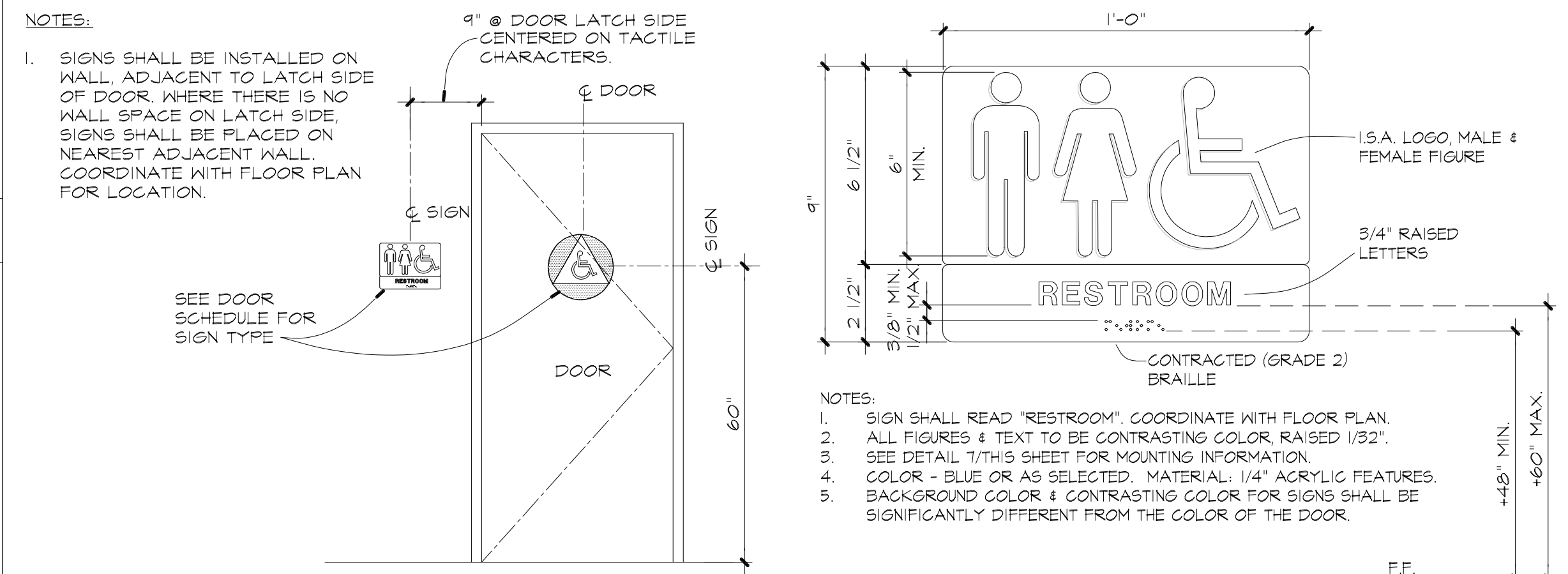
- VERIFY EXACT SIZES IN FIELD PRIOR TO ORDERING FOR ALL DOORS / FRAMES. MAINTAIN CBC MIN. REQUIREMENTS.
- EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
- ALL HOLLOW METAL (HM) DOORS AND FRAMES SHALL BE 16 GAGE MINIMUM. COLORS AS SELECTED BY ARCHITECT. (SEE FINISH SCHEDULE).
- CONTRACTOR SHALL BE RESPONSIBLE TO COUNT AND VERIFY NUMBER AND QUANTITIES OF DOORS.
- PAINT HOLLOW METAL DOORS.
- "T" AT GLAZING PANELS DENOTES THE PANEL TO BE TEMPERED, OR LAMINATED SAFETY GLAZING PER SPECIFICATIONS.
- EXTERIOR DOOR LIGHTS TO HAVE U FACTOR VALUE OF NOT MORE THAN 0.55 AND SHGC OF NOT MORE THAN 0.67.
- SEE THIS SHEET FOR SIGNAGE DETAIL, SIGNAGE TYPE DESIGNATION AND INSTALLATION CRITERIA.
- REFER TO FLOOR PLAN FOR SIGNAGE LOCATION.
- REFER TO SPECIFICATION SECTION 08 11 00 PART 3.B FOR COMPLETE HARDWARE GROUP DESCRIPTIONS.
- DOOR AND FRAME MATERIALS TO READ AS FOLLOWS:
AL --- ALUMINUM
HM --- HOLLOW METAL
- CARD READER FURNISHED BY OWNER, INSTALLED BY CONTRACTOR.

K1 DOOR TYPE
Scale: 1/4"=1'-0"



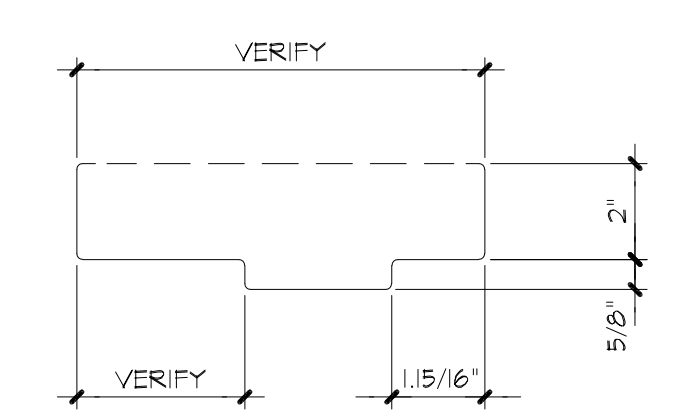
1 HM SINGLE DOOR 2 ALUMINUM STOREFRONT SYSTEM, SEE WINDOW ELEVATIONS. 3 HM DOUBLE DOOR

H6 DOOR SCHEDULE NOTES



S1 RESTROOM SIGN PLACEMENT 1/2" = 1'-0"
S2 ALL GENDER RESTROOM SIGN 3" = 1'-0"
S3 ALL GENDER GEO. DOOR SYM. 1/2" = 1'-0"

G1 FRAME ELEVATIONS
Scale: 1/4"=1'-0"

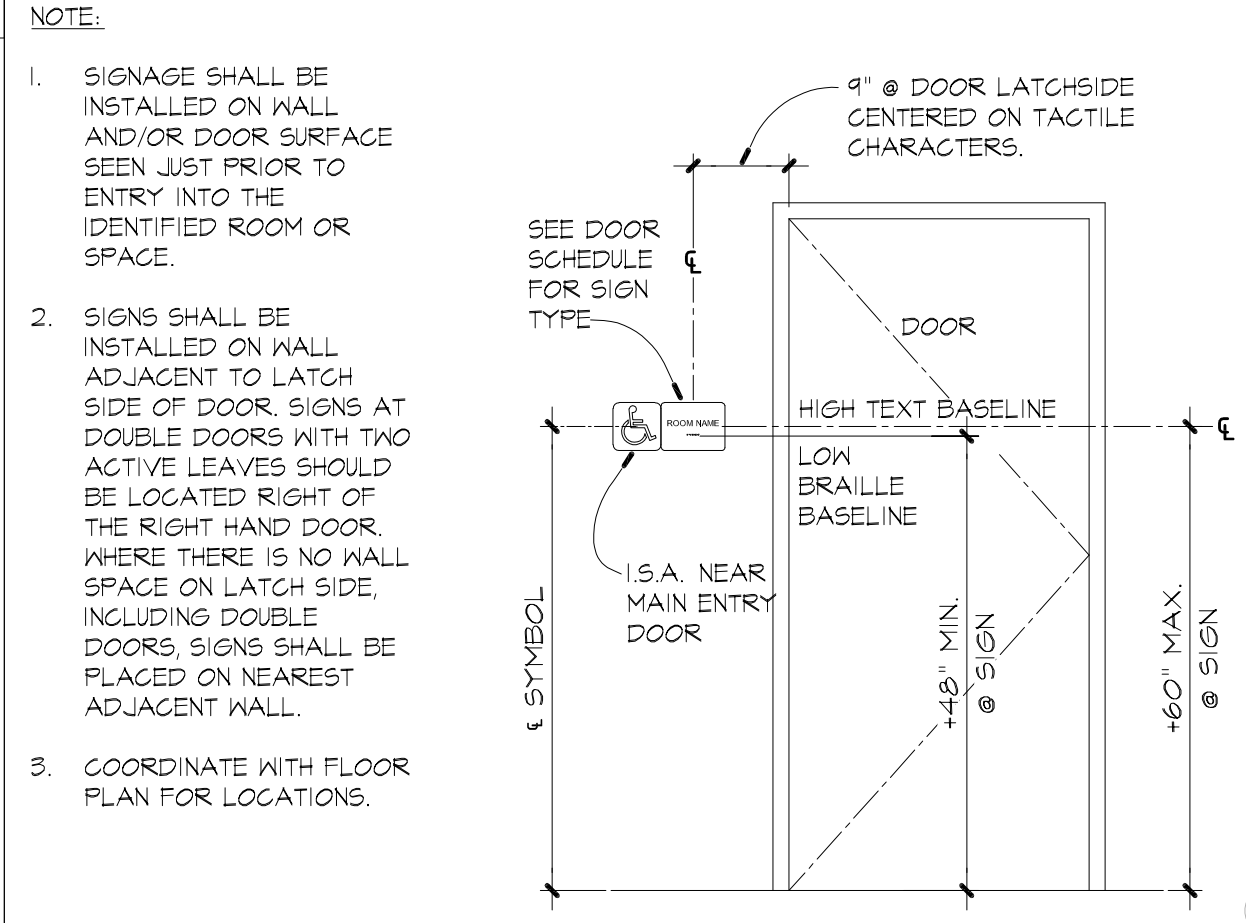


H.M. DOOR

E1 FRAME TYPE
Scale: NTS

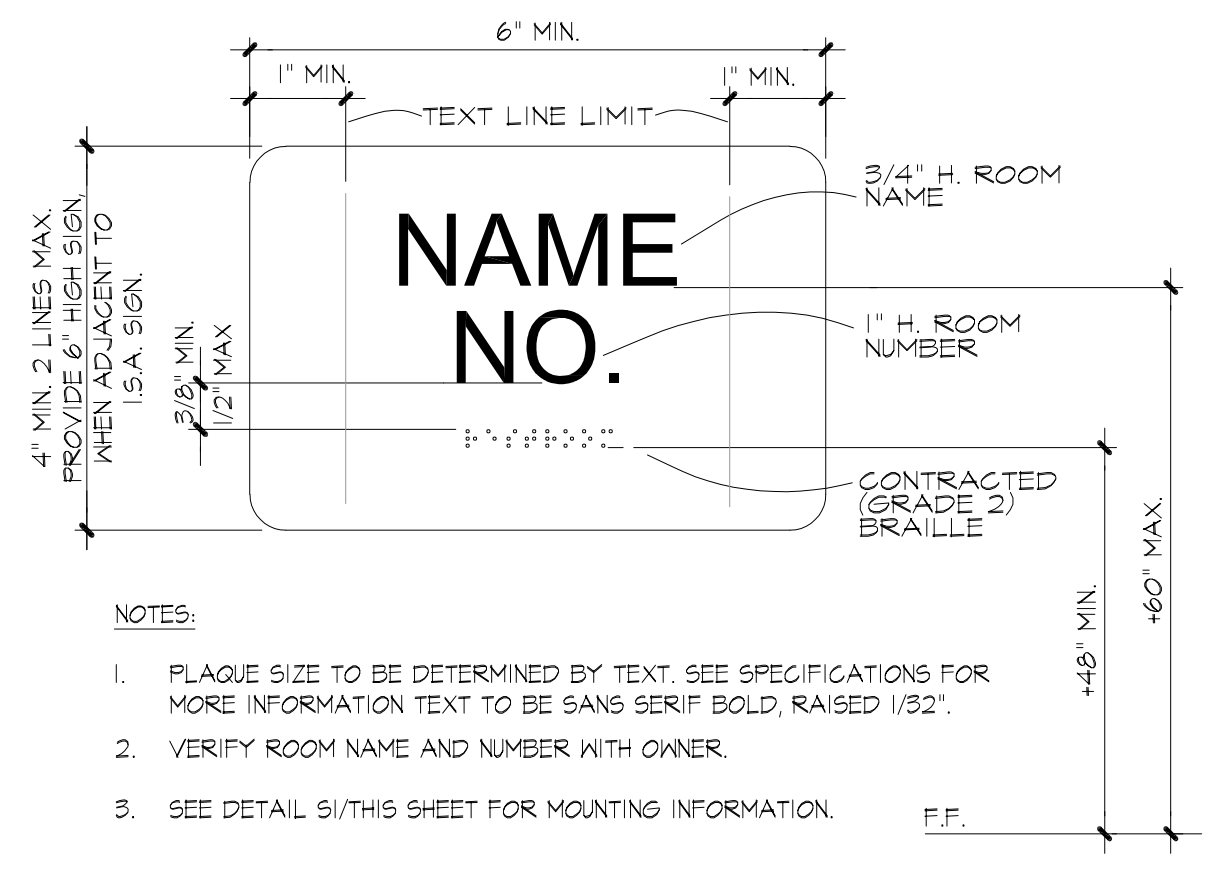
WINDOW ELEVATION GENERAL NOTES

- ALL ROUGH OPENINGS SHALL BE FIELD VERIFIED BEFORE ORDERING MATERIALS.
- REFER TO SPECIFICATIONS FOR COMPLETE STOREFRONT SYSTEM DESCRIPTIONS.
- EXTERIOR WINDOW ELEVATIONS ARE VIEWED FROM THE EXTERIOR OF THE BUILDING, WITH GLAZING SHOWN HATCHED.
- WINDOW DIMENSIONS SHOW APPROX. NOMINAL SIZES (U.N.O.). CONTRACTOR SHALL VERIFY ALL ACTUAL, ROUGH OPENING DIMENSIONS & ADJUST SIZES AS REQUIRED FOR SHIM SPACE & ADJACENT FINISHES PER SECTIONS, DETAILS, SPECIFICATIONS & MANUFACTURER'S RECOMMENDATIONS, TAKING CARE TO MAINTAIN INDICATED ALIGNMENT TO TOP & BOTTOM OF FRAMES.
- UNLESS NOTED OTHERWISE, ALUMINUM FRAME WINDOWS TO HAVE CLEAR ANODIZED FINISH.
- PROVIDE JUSTIFICATION FROM THE WINDOW MANUFACTURER FOR THE U-FACTOR AND SOLAR HEAT GAIN COEFFICIENT (SHGC) FACTORS SPECIFIED.
- EXCEPT AS INDICATED OTHERWISE, ALL EXTERIOR WINDOWS SHALL HAVE 1" CLEAR DUAL GLAZED UNITS. ALL UNITS SHALL HAVE A U FACTOR VALUE OF NOT MORE THAN 0.36, SHGC VALUE NOT MORE THAN 0.25 & MIN. VT VALUE OF 0.42. (CEC 140.3(a) 5 & TABLE 140.3-B) PROVIDE TEMPERED WHERE INDICATED WITH A "T" OR WHERE REQUIRED BY CODE & GLAZING REGULATIONS.
- ALL STOREFRONT WINDOW ASSEMBLIES SHALL HAVE A MINIMUM OF 2 FASTENERS EACH SIDE w/ MAX. SPACING @ 24" o.c. SEE DETAILS FOR ANCHORAGE AT FLOOR SLAB.
- PROVIDE CLEAR SILICONE SEALANT, PER MANUFACTURER'S RECOMMENDATIONS.



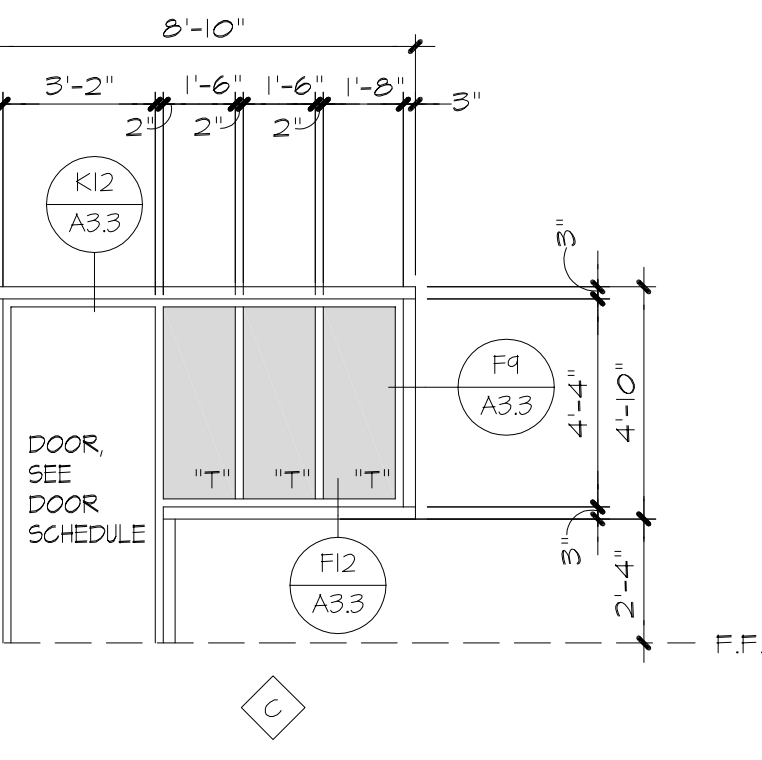
S4 TYPICAL SIGN PLACEMENT 1/2" = 1'-0"
S5 NOT USED

B6 SIGNAGE DETAILS



S6 TYPICAL ROOM SIGNAGE 6" = 1'-0"

A1 WINDOW ELEVATION Scale: NTS



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Sheet Content:
Door Schedule & Window Elevation

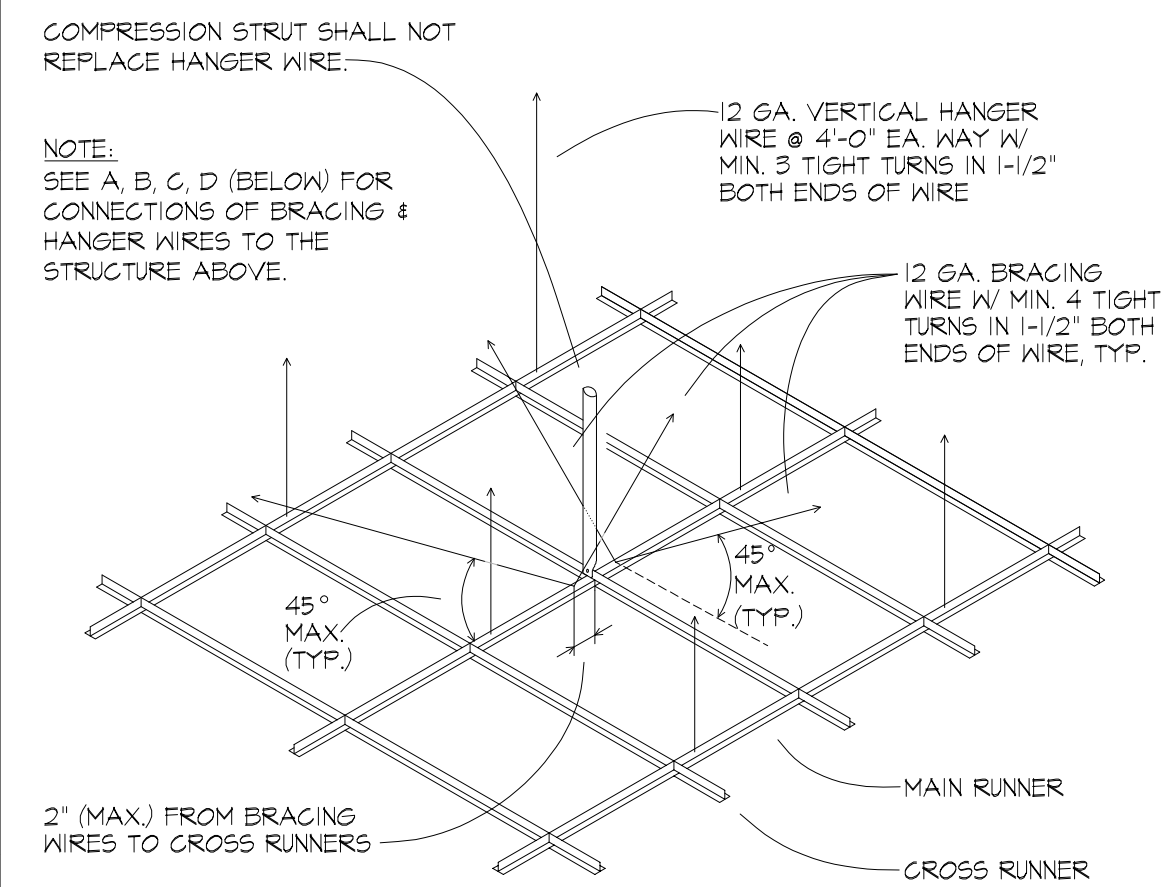
Fresno County Department of
Public Works and Planning
Capital Projects

2220 Tulare Street, 8th Floor
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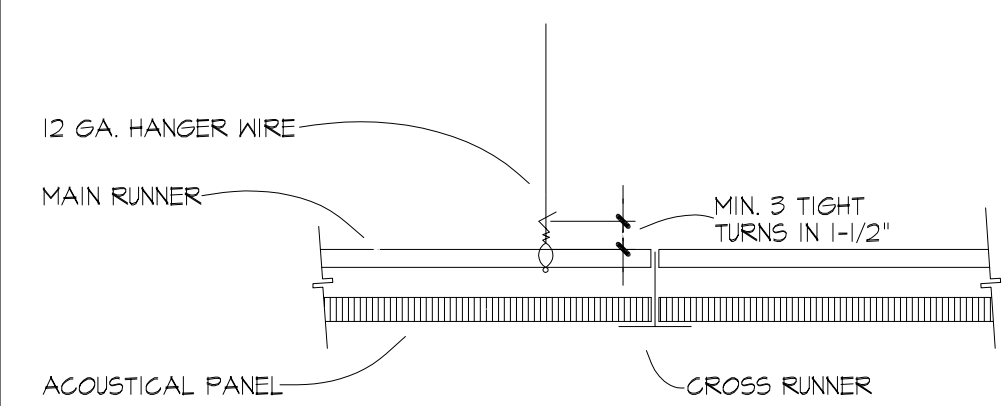
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A3.2

2	Bid Addendum 2 5-21-2021	A	Plan Review Corrections 5-21-2021
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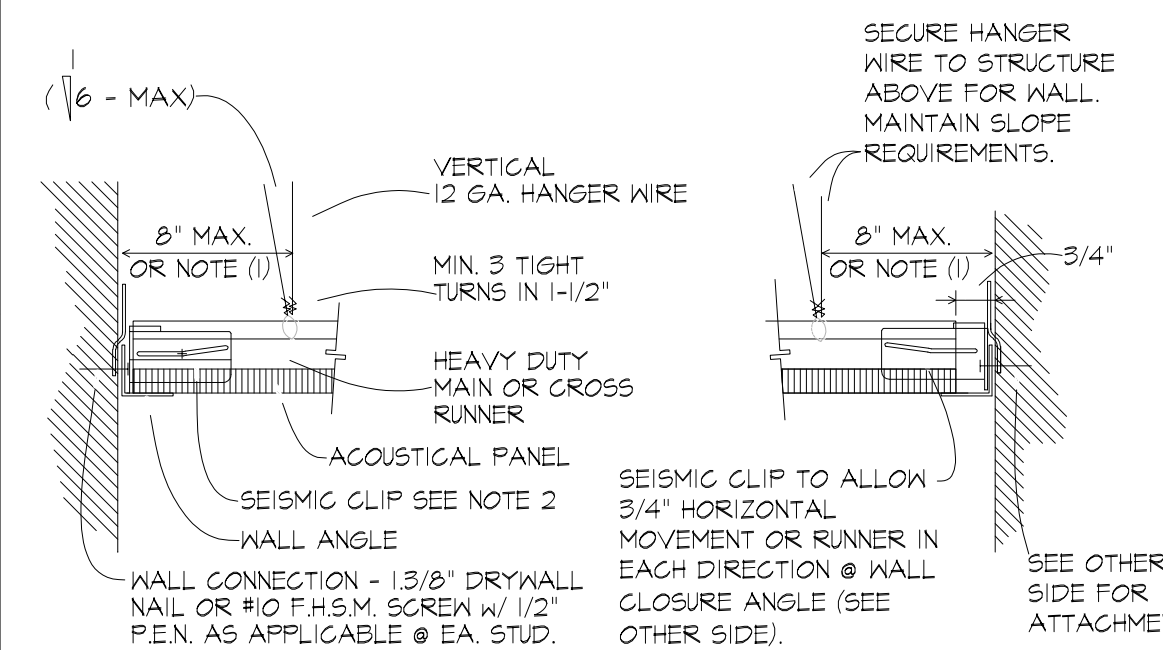
COMPRESSION STRUTS: STEEL SECTION WITH L/R RATIO OF 200 MAXIMUM, REFER TO DETAIL 1/THIS SHEET.



ACCEPTABLE ATTACHMENT FOR ACOUSTICAL CEILING GRID



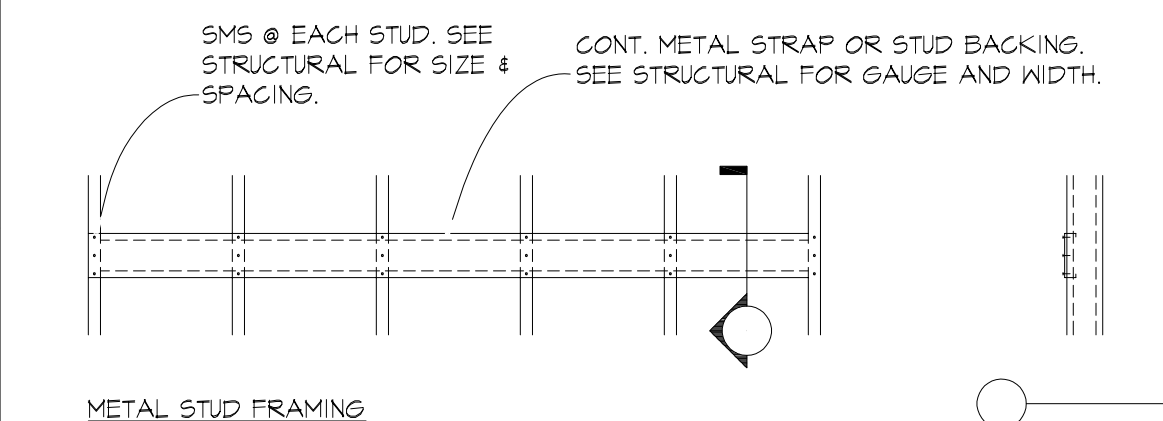
ACCEPTABLE HANGER WIRE CONNECTION TO GRID



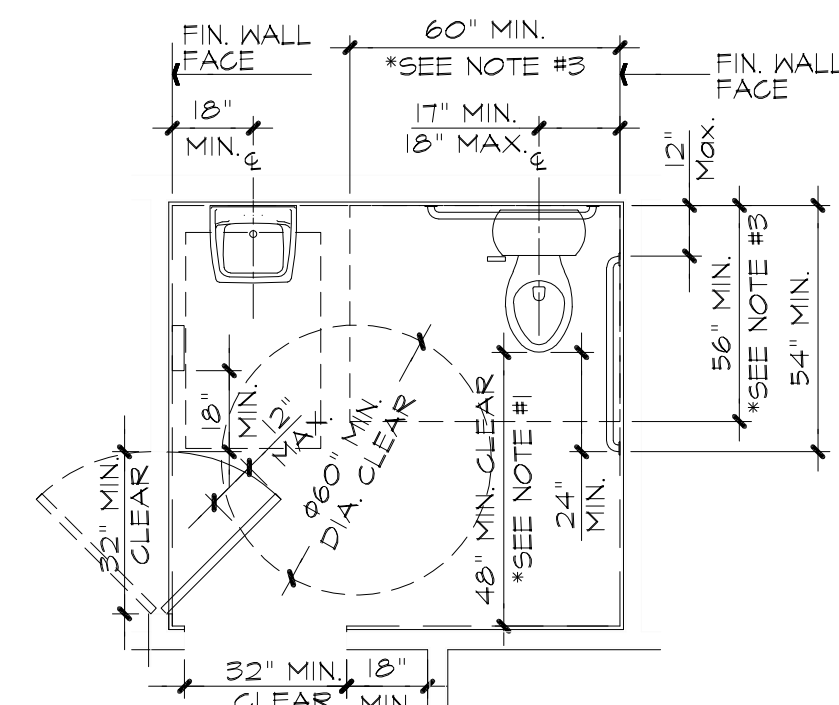
ATTACHED WALL UNATTACHED WALL
WALL ANGEL / RUNNER ATTACHMENT (SEE NOTES 2 & 3)

- NOTES:
- 1/4 OF THE LENGTH OF THE END RUNNER WHICHEVER IS LESS.
 - ON TWO ADJACENT WALLS, ATTACH 'SEISMIC CLIPS' AT EACH INTERSECTION OF ALL RUNNERS AND WALL CLOSURE. SECURELY FIX RUNNERS TO CLIP TO PREVENT MOVEMENT BY MEANS OF SHEET METAL SCREWS, 1/8" STEEL POP-RIVET OR OTHER APPROVED FASTENER. GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN 2 ADJACENT WALLS.
 - AT PERIMETER OF THE CEILING WHERE MAIN OR CROSS RUNNERS ARE NOT FIXED TO THE ADJACENT WALL THE SEISMIC CLIP SHALL BE INSTALLED TO ALLOW 3/4" MOVEMENT OF THE RUNNERS AWAY FROM AND TOWARDS THE WALL. WHERE WALLS RUN DIAGONALLY TO THE RUNNERS ONE (1) END OF THE MAIN AND CROSS RUNNERS SHALL BE FREE WITH A MINIMUM OF 1/2" INCH CLEAR OF WALL.
 - REFER TO SPECIFICATION SECTION XX XX XX.
 - FOR BRACING WIRES - FULLY EMBED THREADS & ALIGN SCREW EYE W/ DIRECTION OF WIRE.
 - GRID SYSTEM CLASSIFICATION IS HEAVY DUTY.
 - GRID SYSTEM SHALL HAVE VALID EVALUATION REPORT IN ACCORDANCE WITH DSA IR A-5.

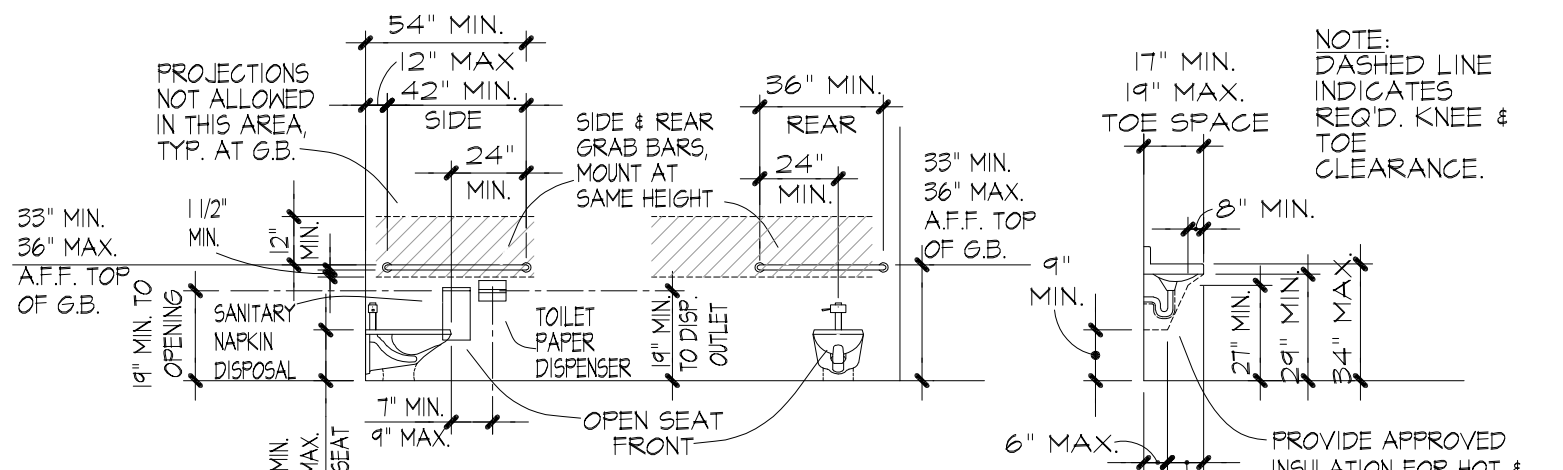
C1 TYPICAL CEILING DETAILS



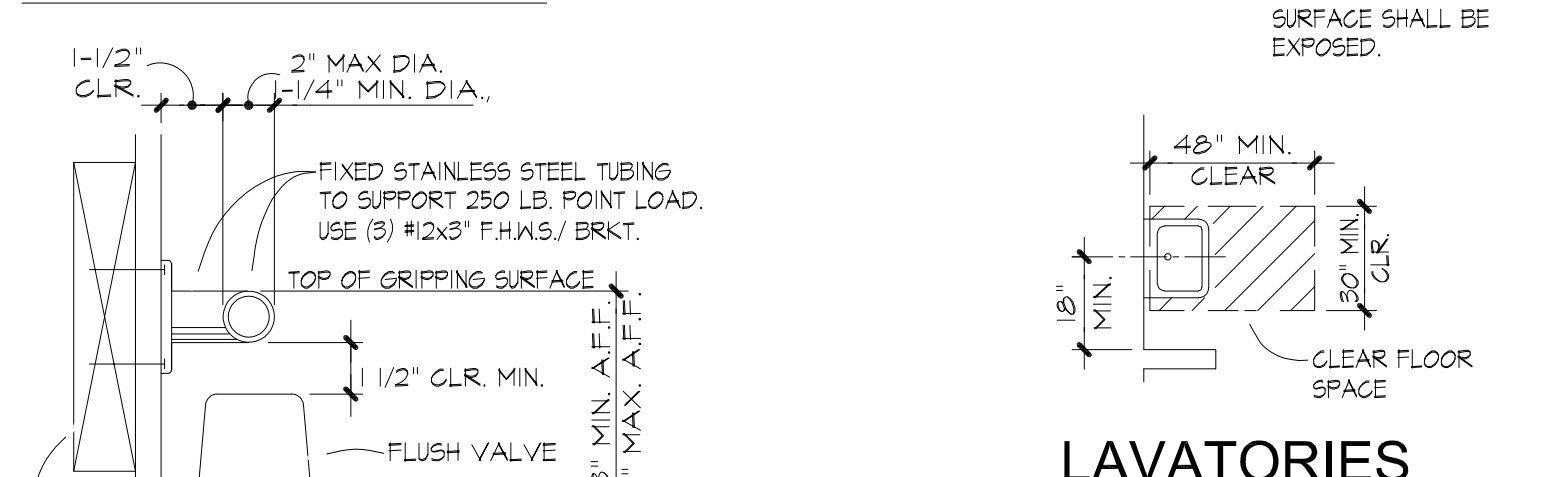
A1 BLOCKING



TYP. SINGLE OCC. TOILET ROOM

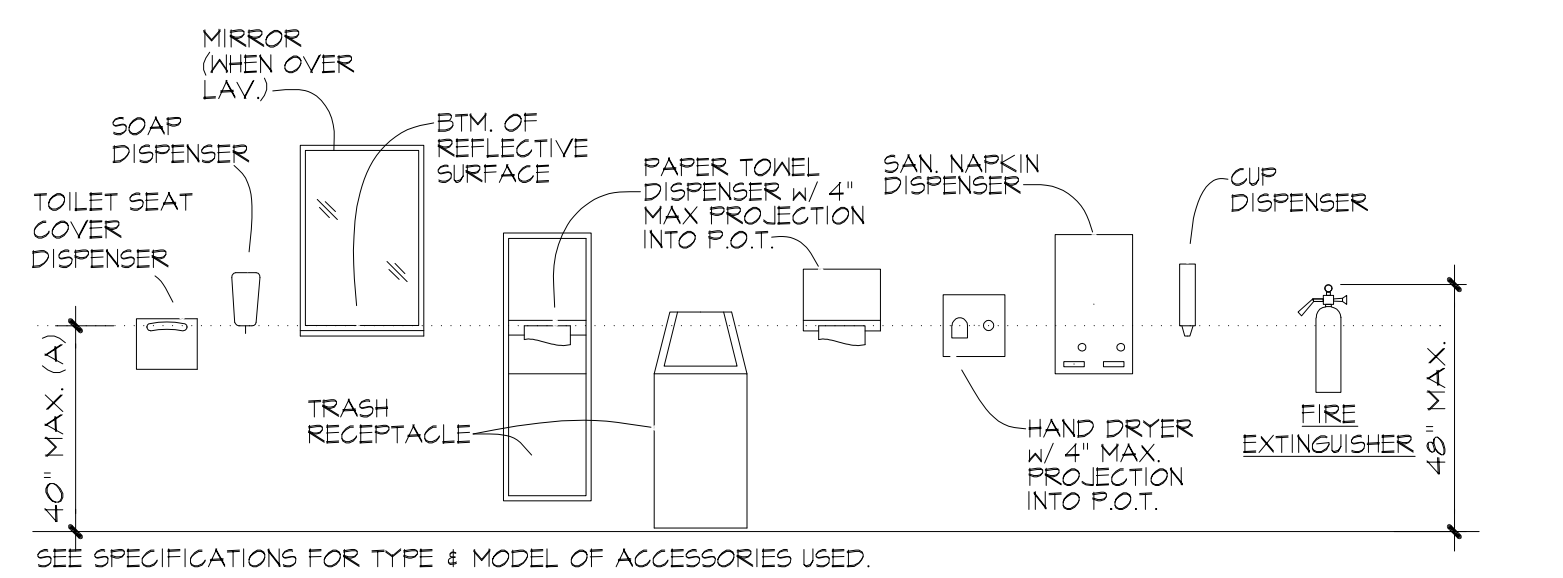


TOILET ELEVATION

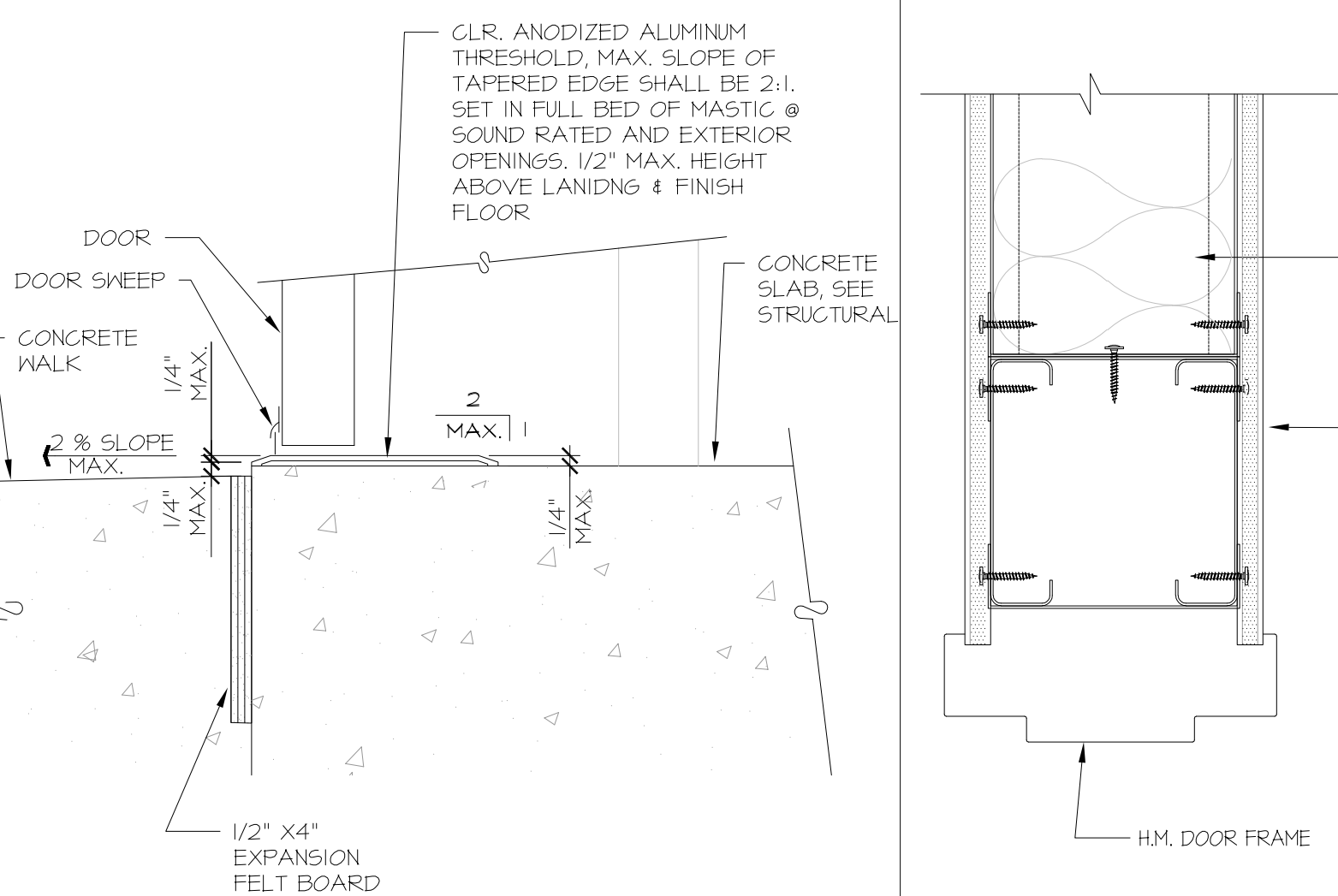


LAVATORIES

GRAB BAR



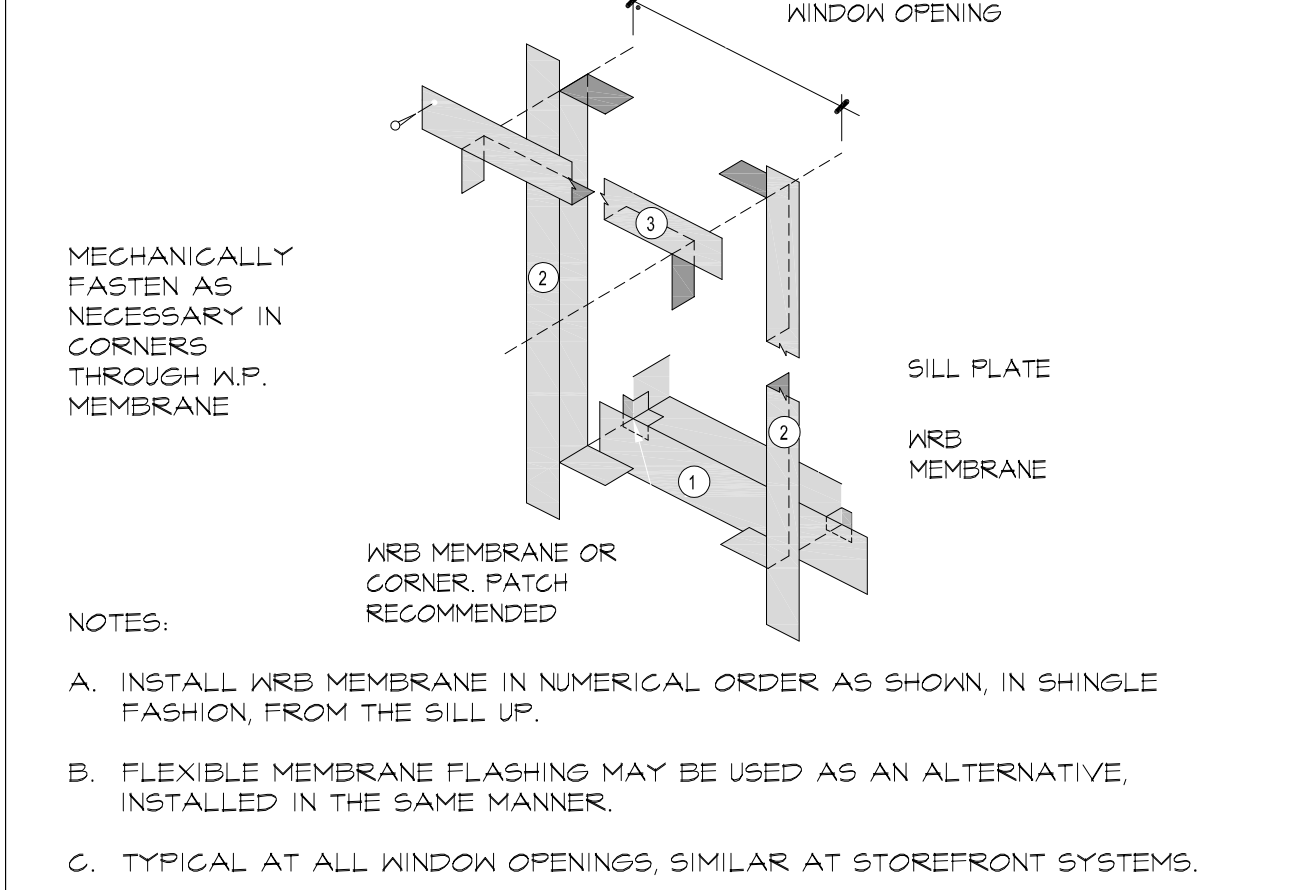
D4 MISCELLANEOUS ACCESSORIES



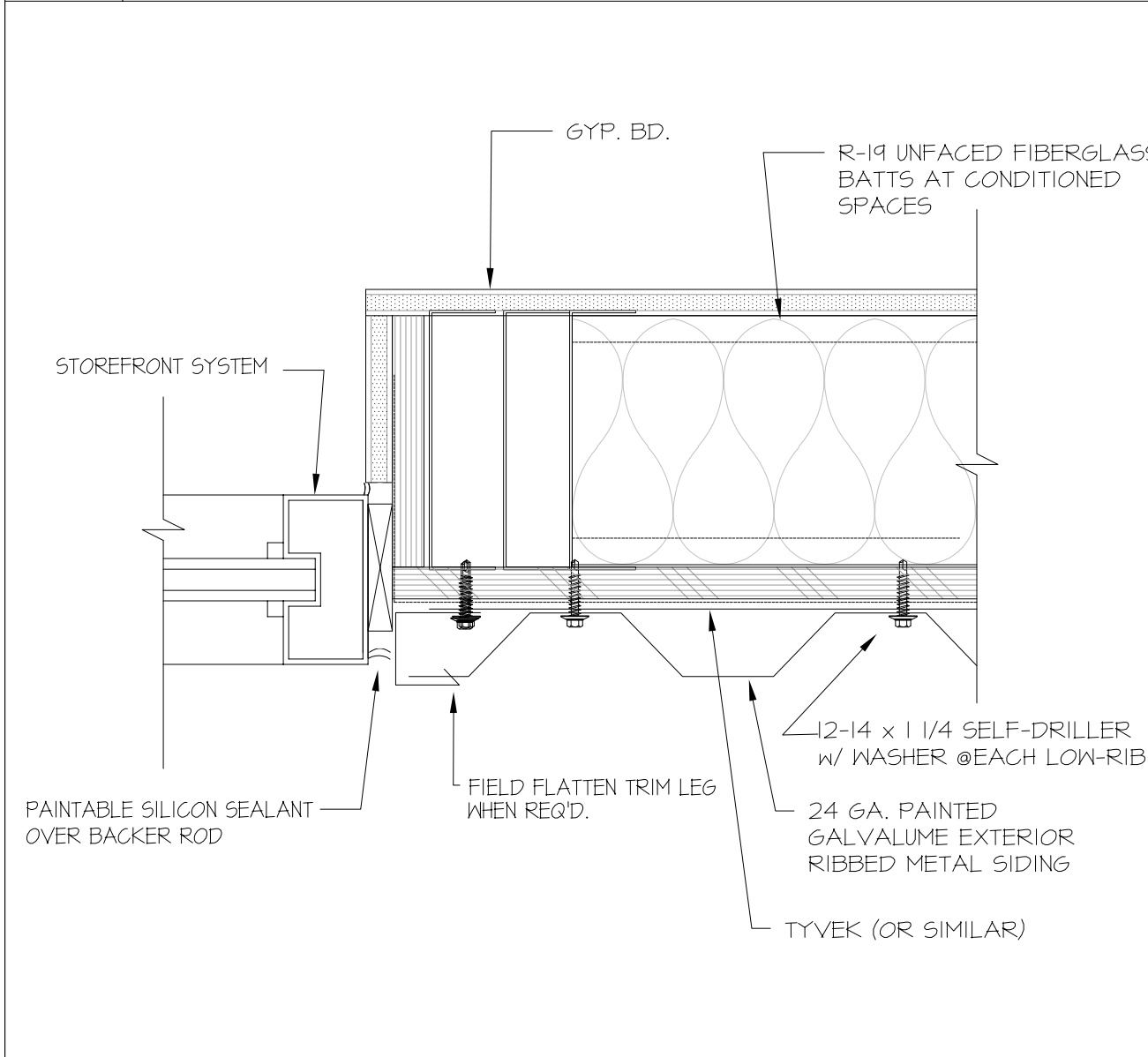
HEAD DETAIL (JAMB SIM.)

A4 TYP. THRESHOLD DETAIL

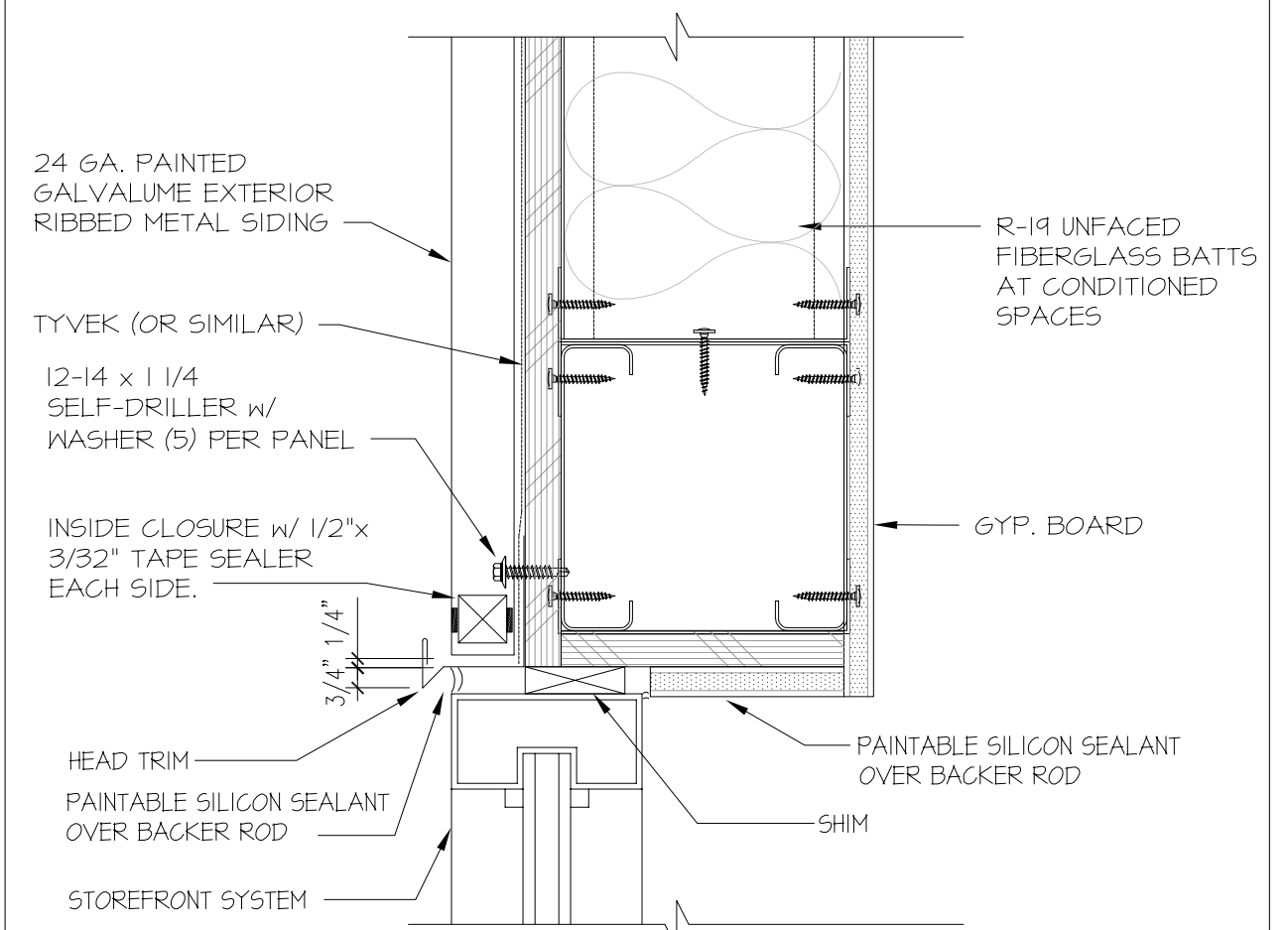
A7 INT. H.M. DOOR



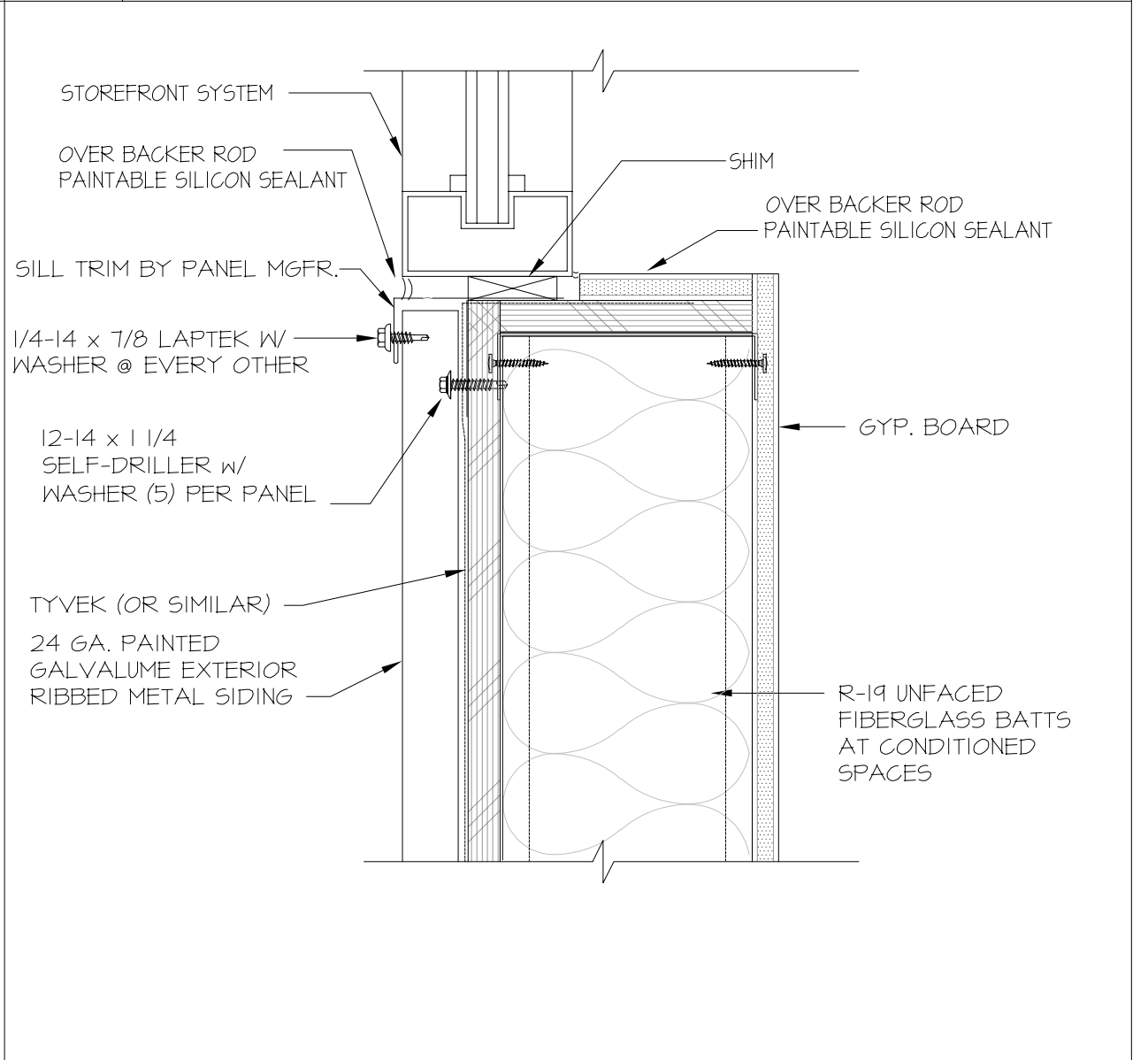
K9 TYPICAL OPENING FLASHING DETAIL



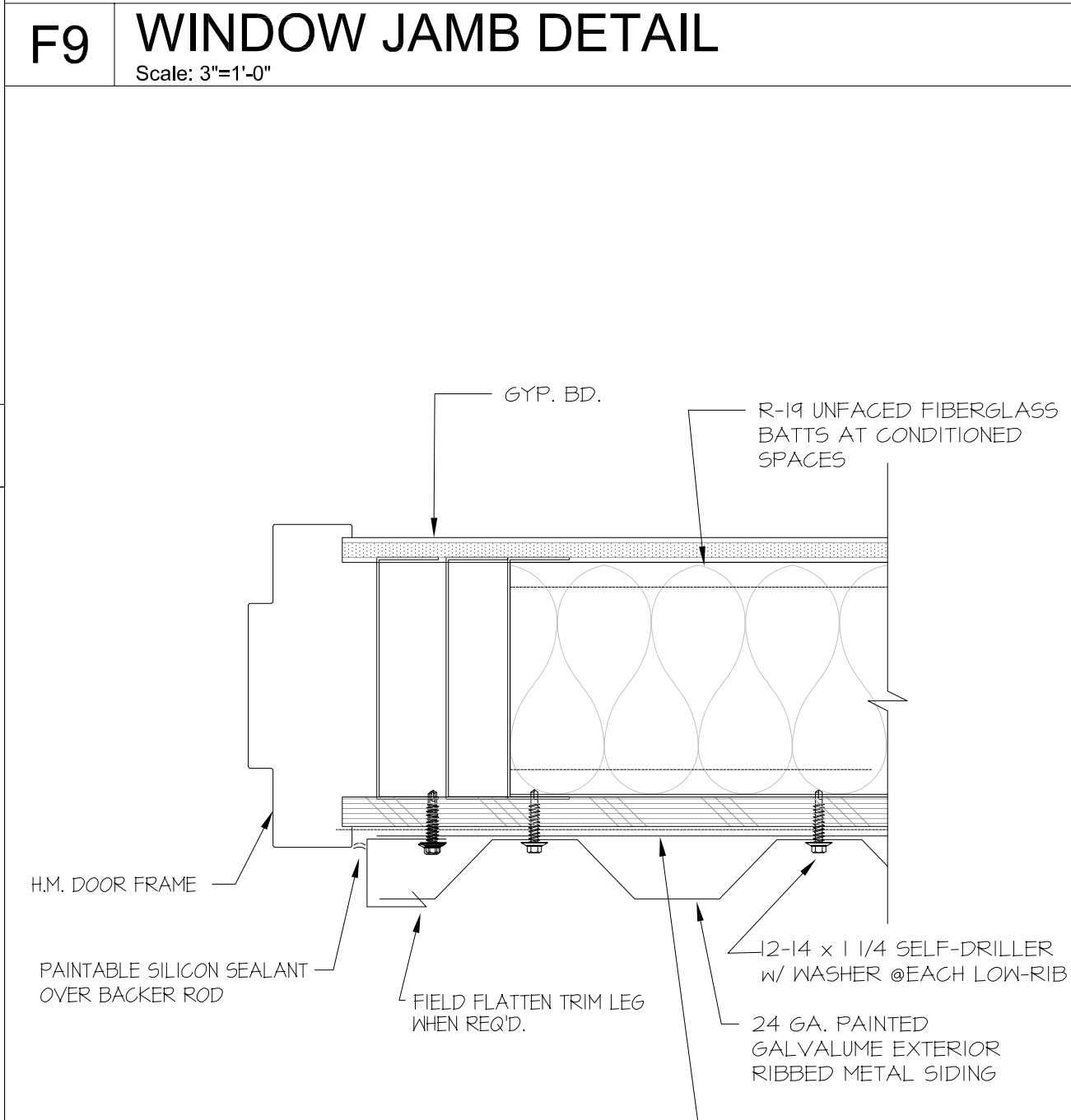
F9 WINDOW JAMB DETAIL



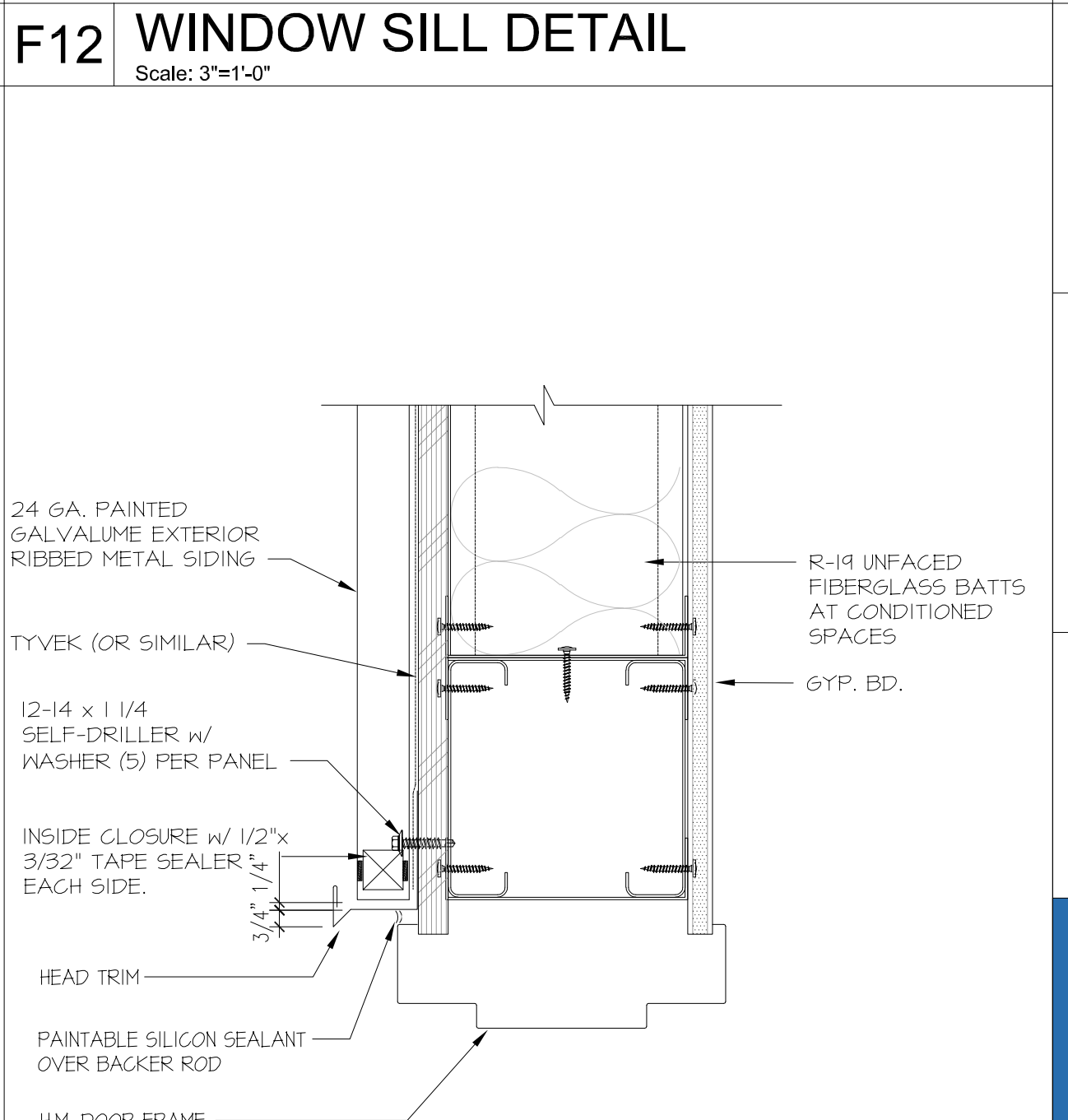
K12 WINDOW HEAD DETAIL



F12 WINDOW SILL DETAIL



A9 H.M. DOOR JAMB DETAIL



A12 H.M. DOOR HEAD DETAIL

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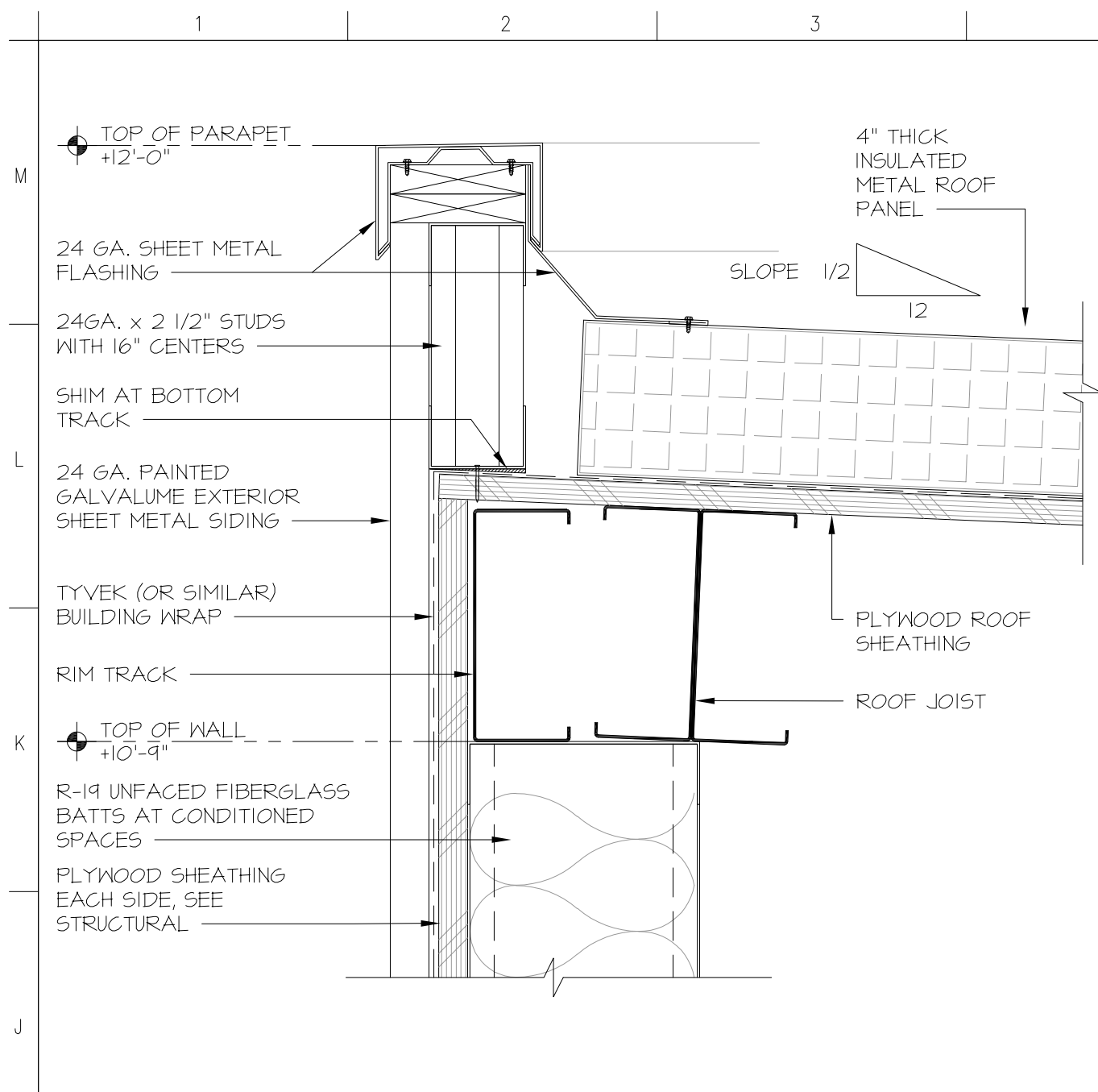
Sheet Content:
Typical Details

Fresno County Department of
Public Works and Planning
Capital Projects
2220 Tulare Street, 8th Floor
Fresno, California 93721

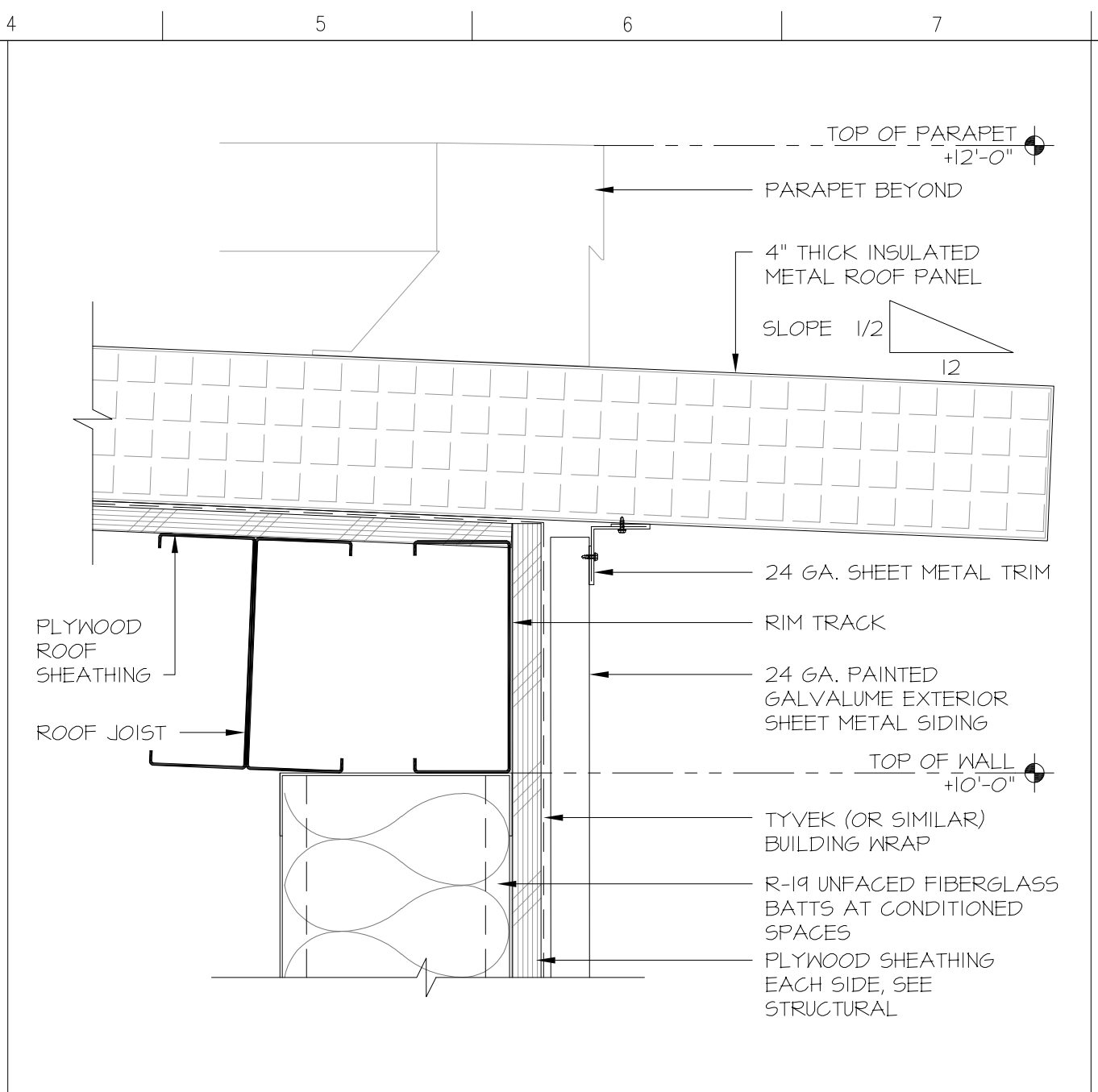
Sheet No.
A3.3

Bid Addendum 2
5-21-2021

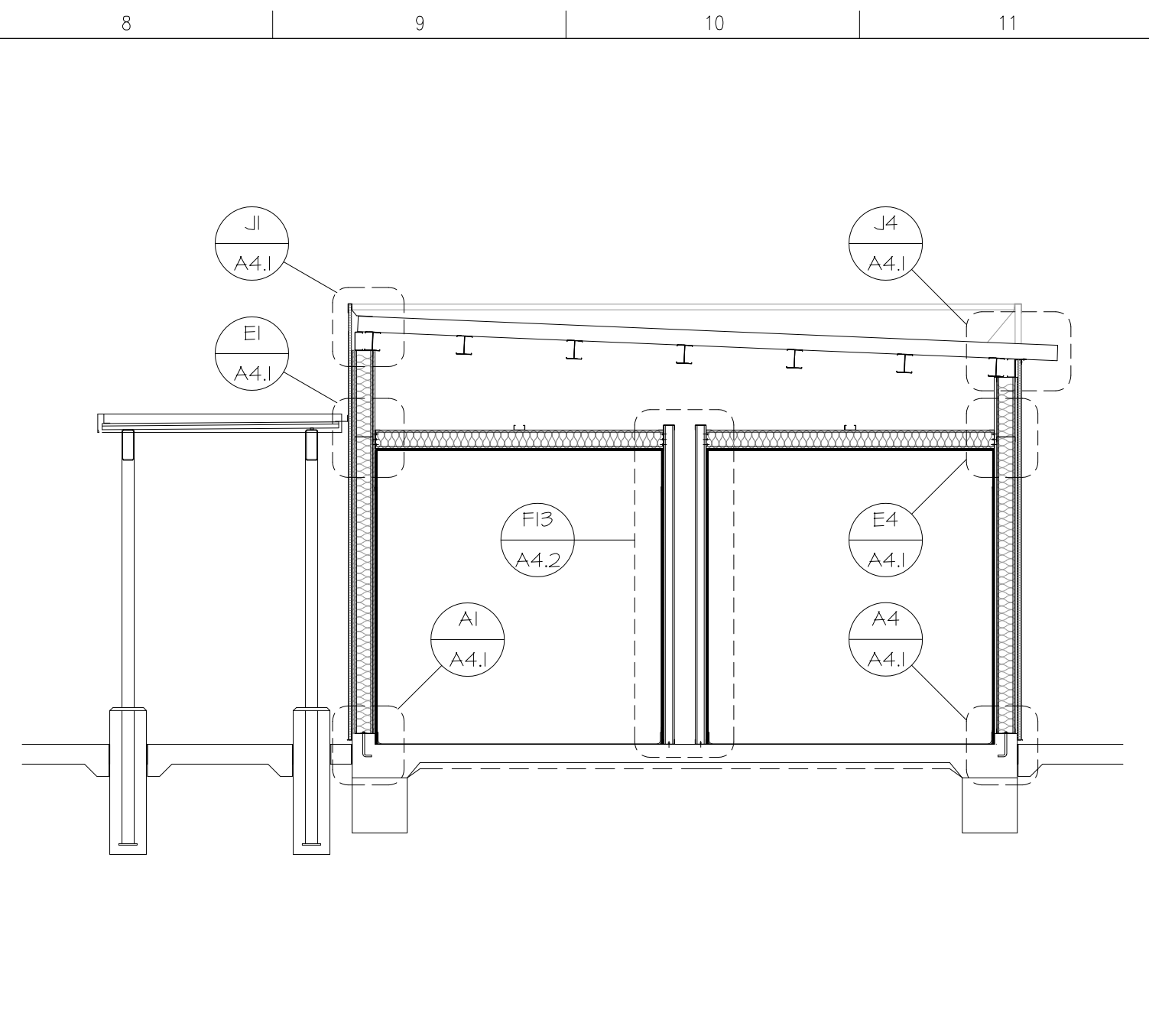
Plan Review Corrections
5-21-2021



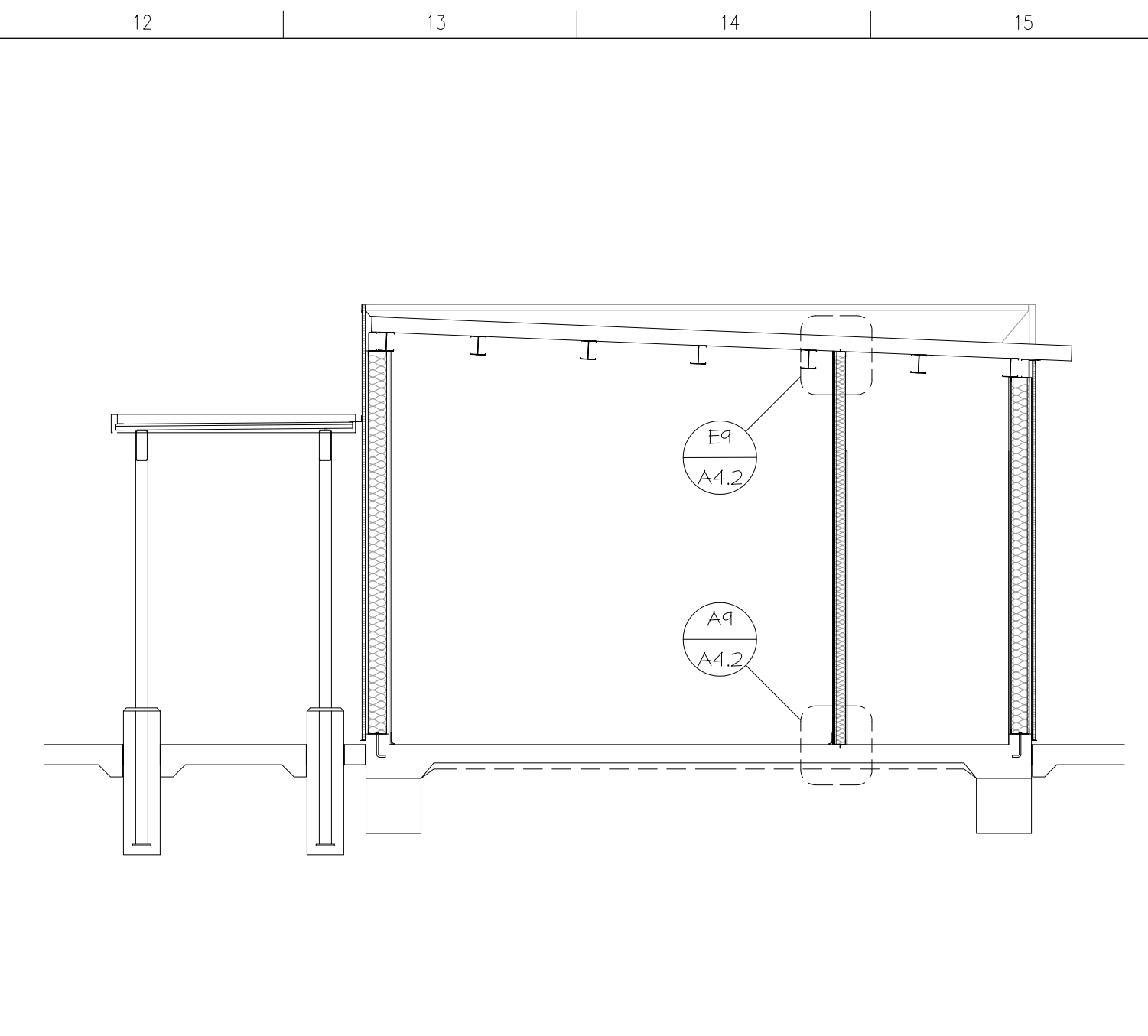
J1 Exterior Wall Section at Roof - High End
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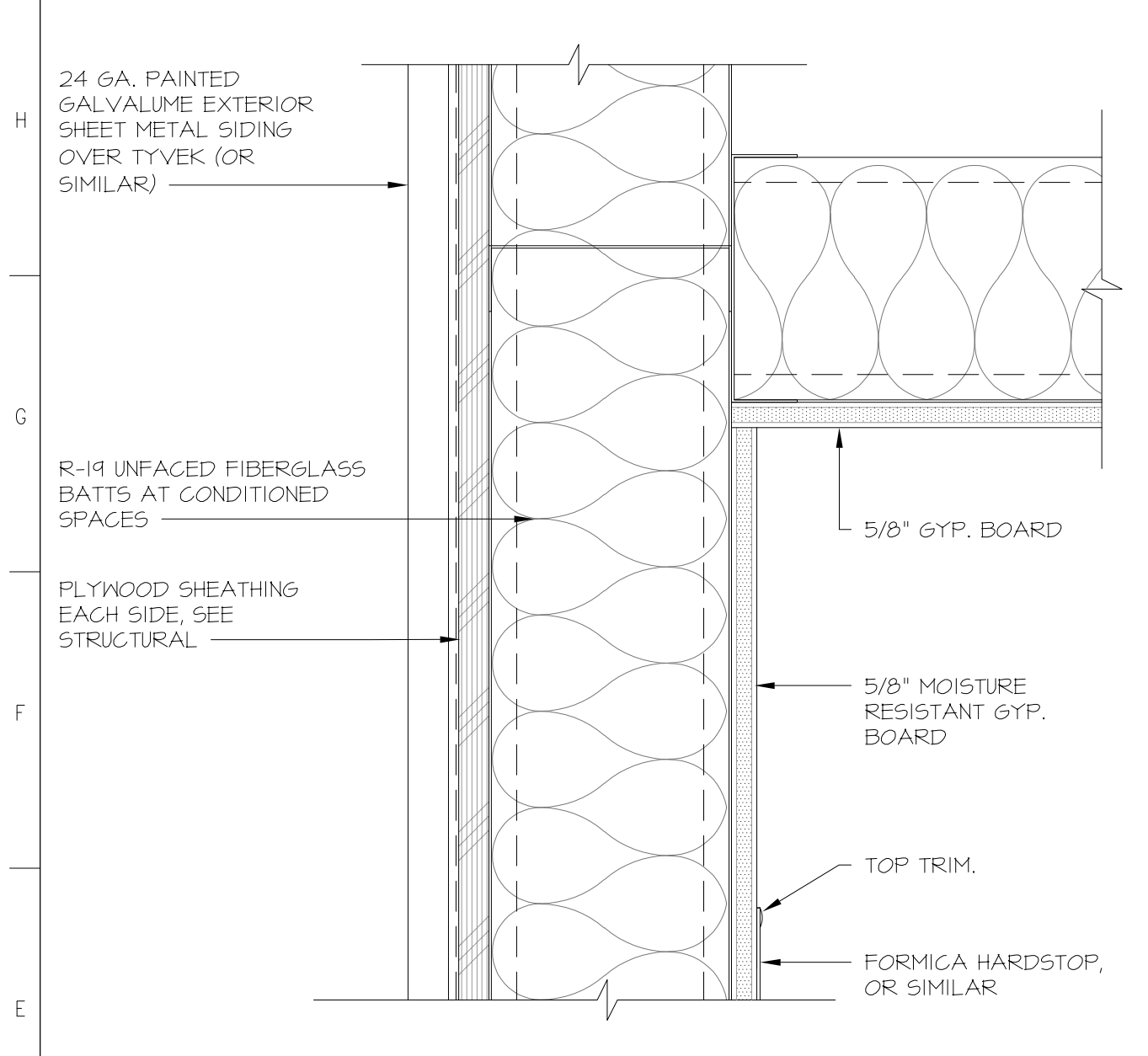
J4 Detail
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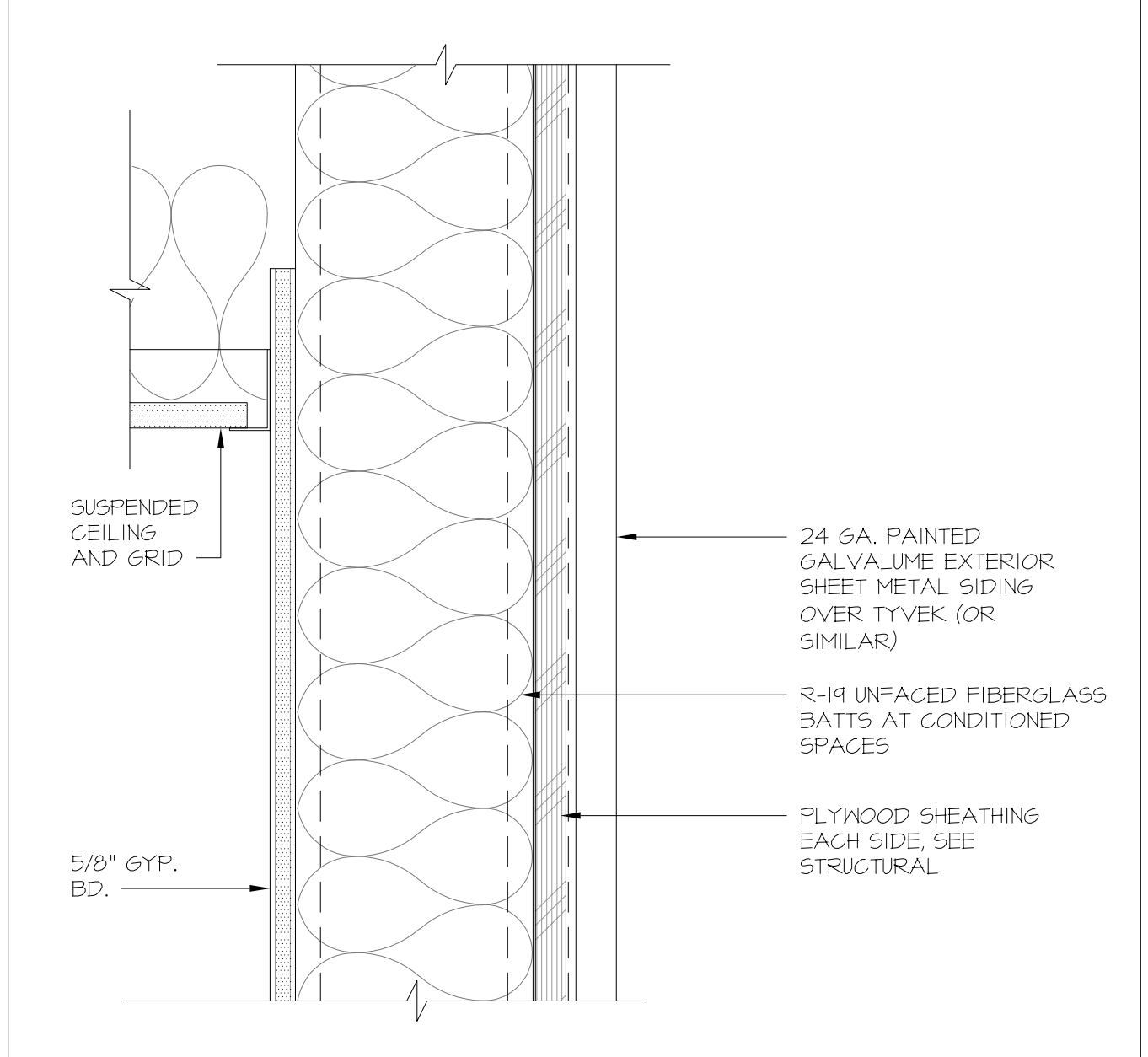
J8 Building Section A
Scale: 1/4" = 1'-0"



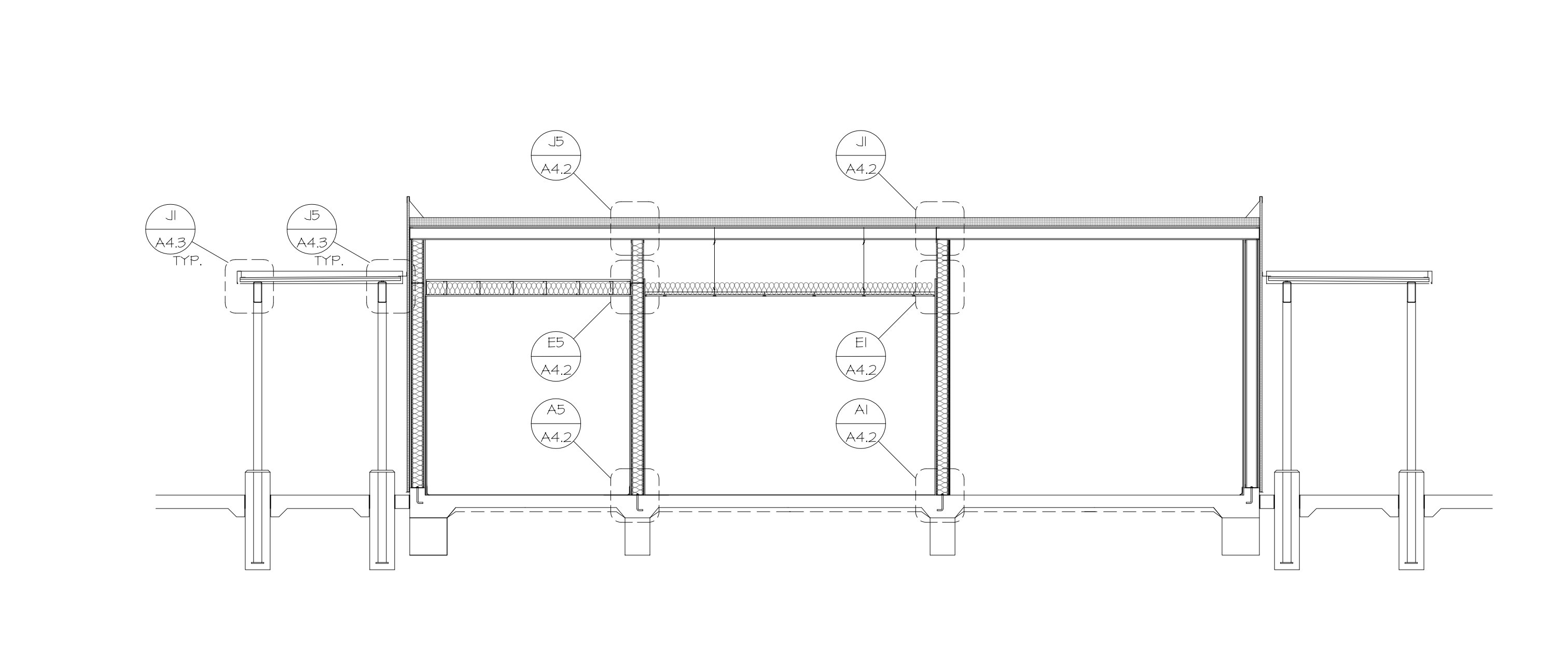
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Scale: 1/4" = 1'-0"



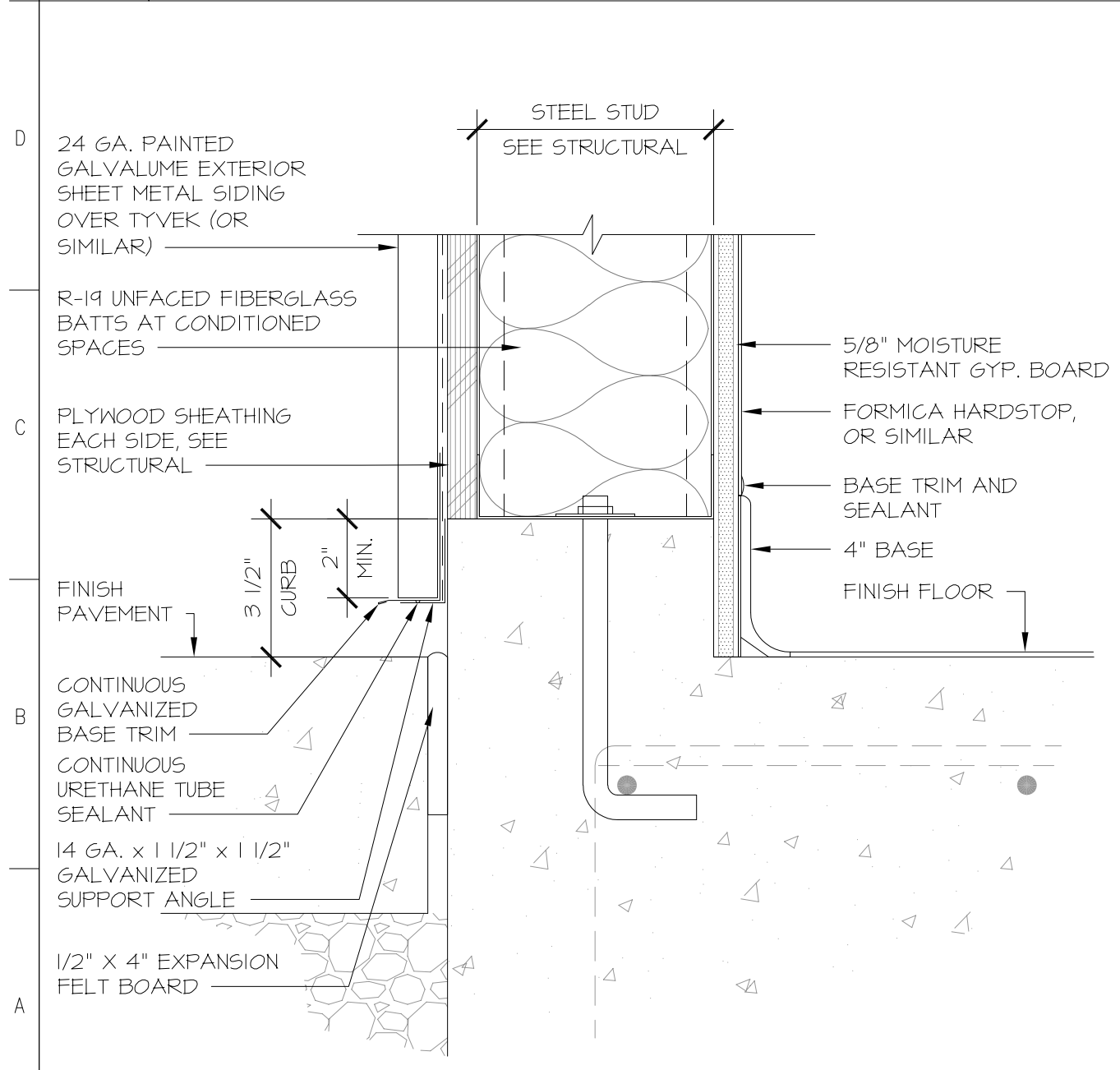
E1 Exterior Wall Section at Gyp. Ceiling
Scale: 3" = 1'-0"



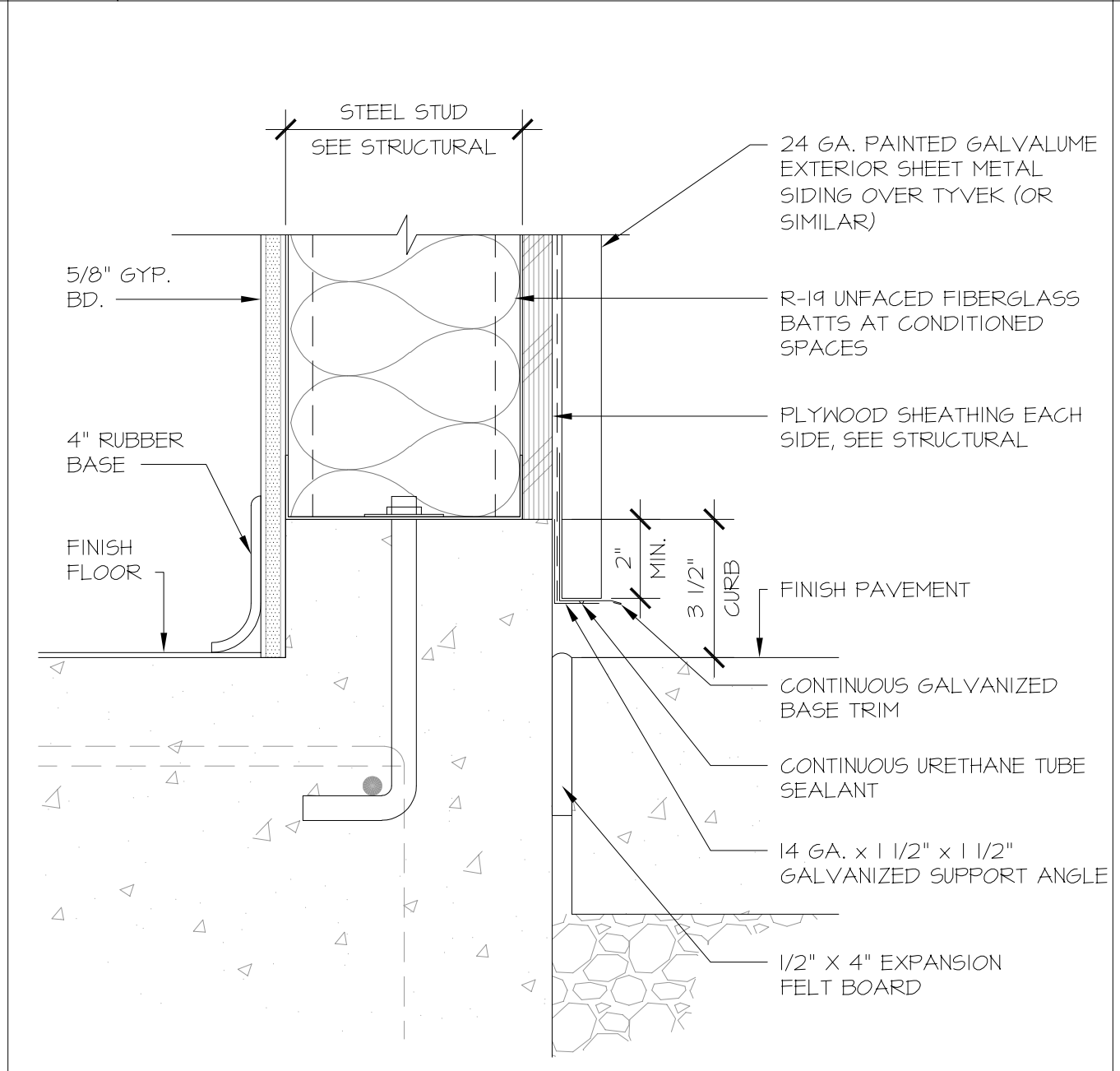
E4 Detail
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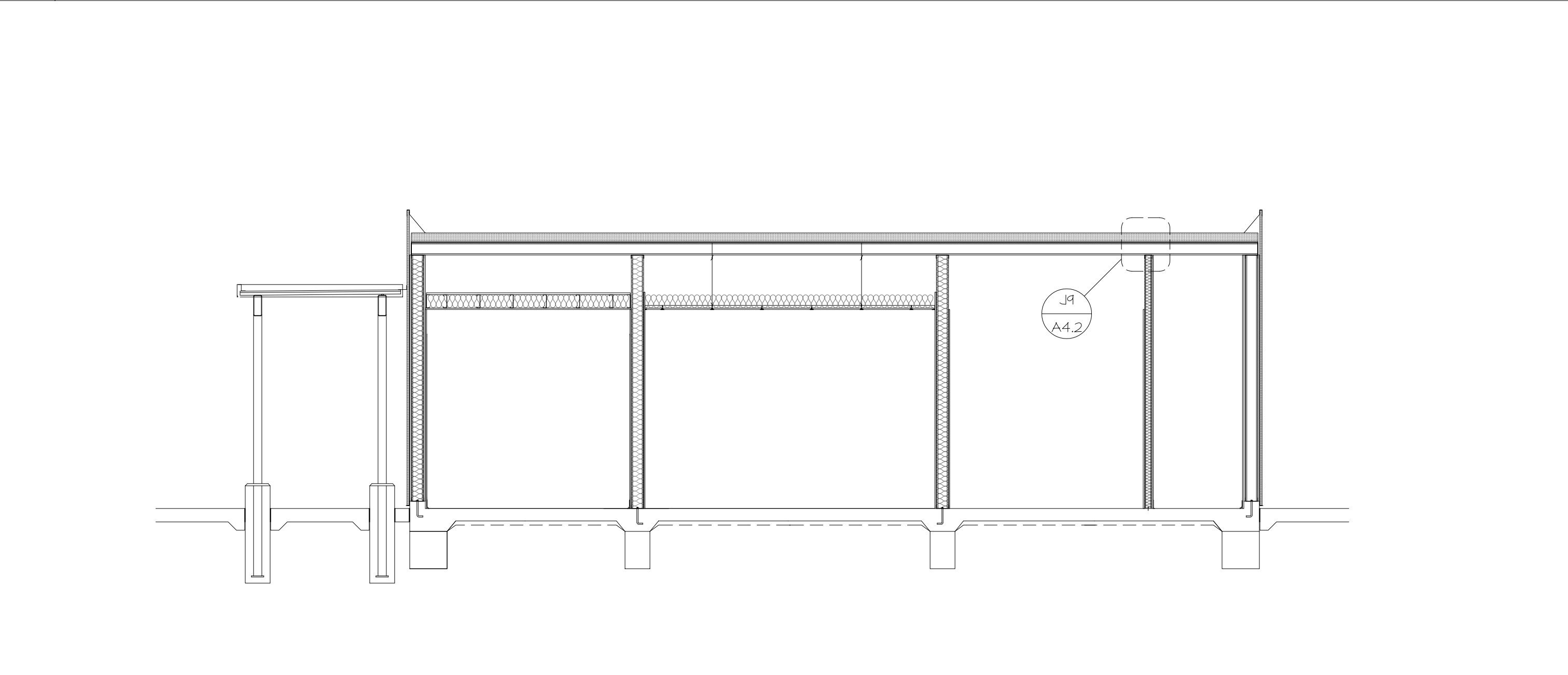
E8 Building Section C
Scale: 1/4" = 1'-0"



A1 Exterior Wall Section at Base
Scale: 3" = 1'-0"



A4 Detail
Scale: 3" = 1'-0"



A8 Building Section D
Scale: 1/4" = 1'-0"

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**Fresno County
Environmental Compliance Center
Phase 2: Office / Storage Building**

Project Address: 310 S. West Avenue, Fresno CA 93706
APN: 458-060-72
Issue Date:
Project No. T90203
File Path: G:\Capital \ Projects \ Building Numbers \ American
Ave Landfill \ T90203 Environmental Compliance Center \ 00
2018 ECC

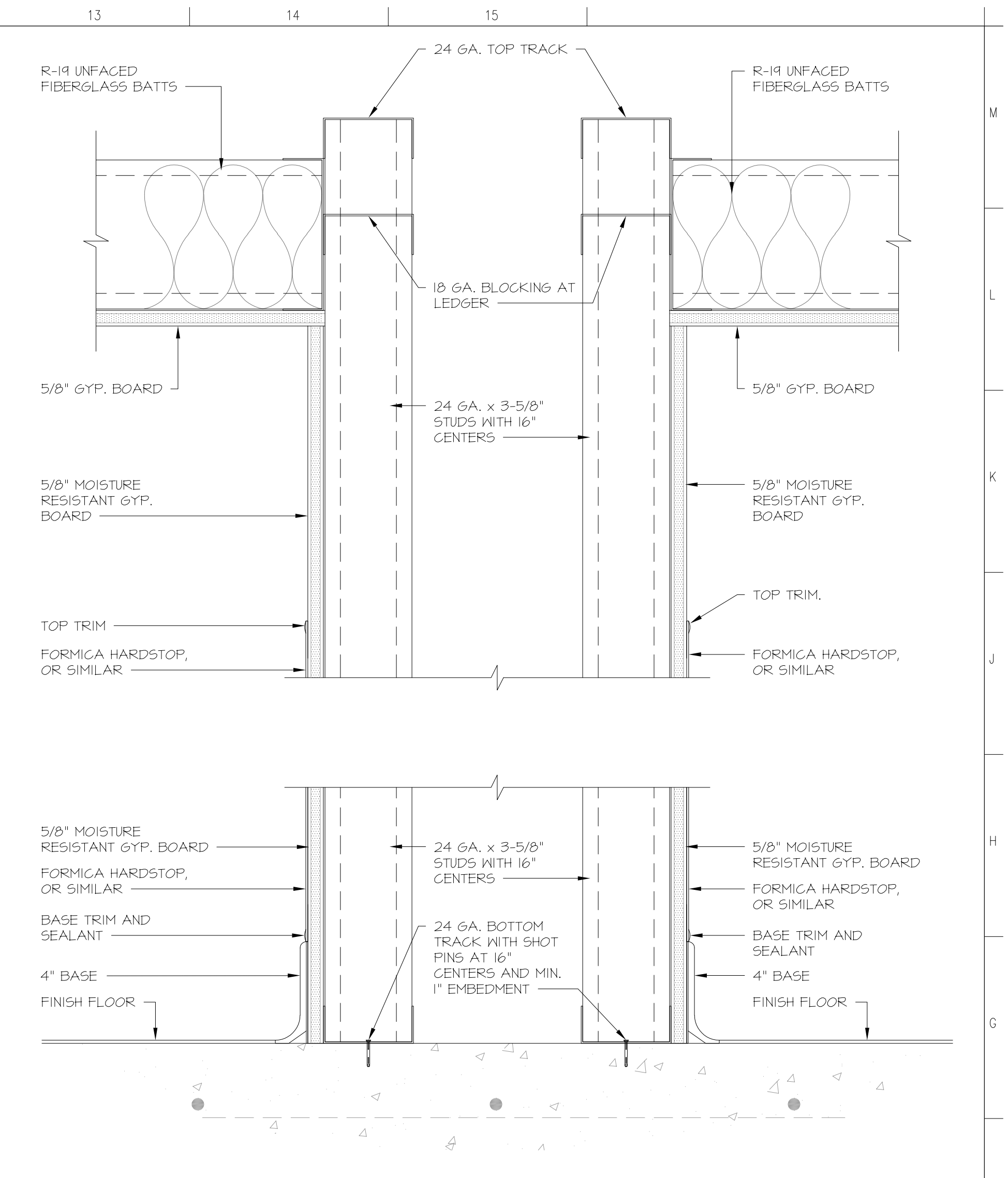
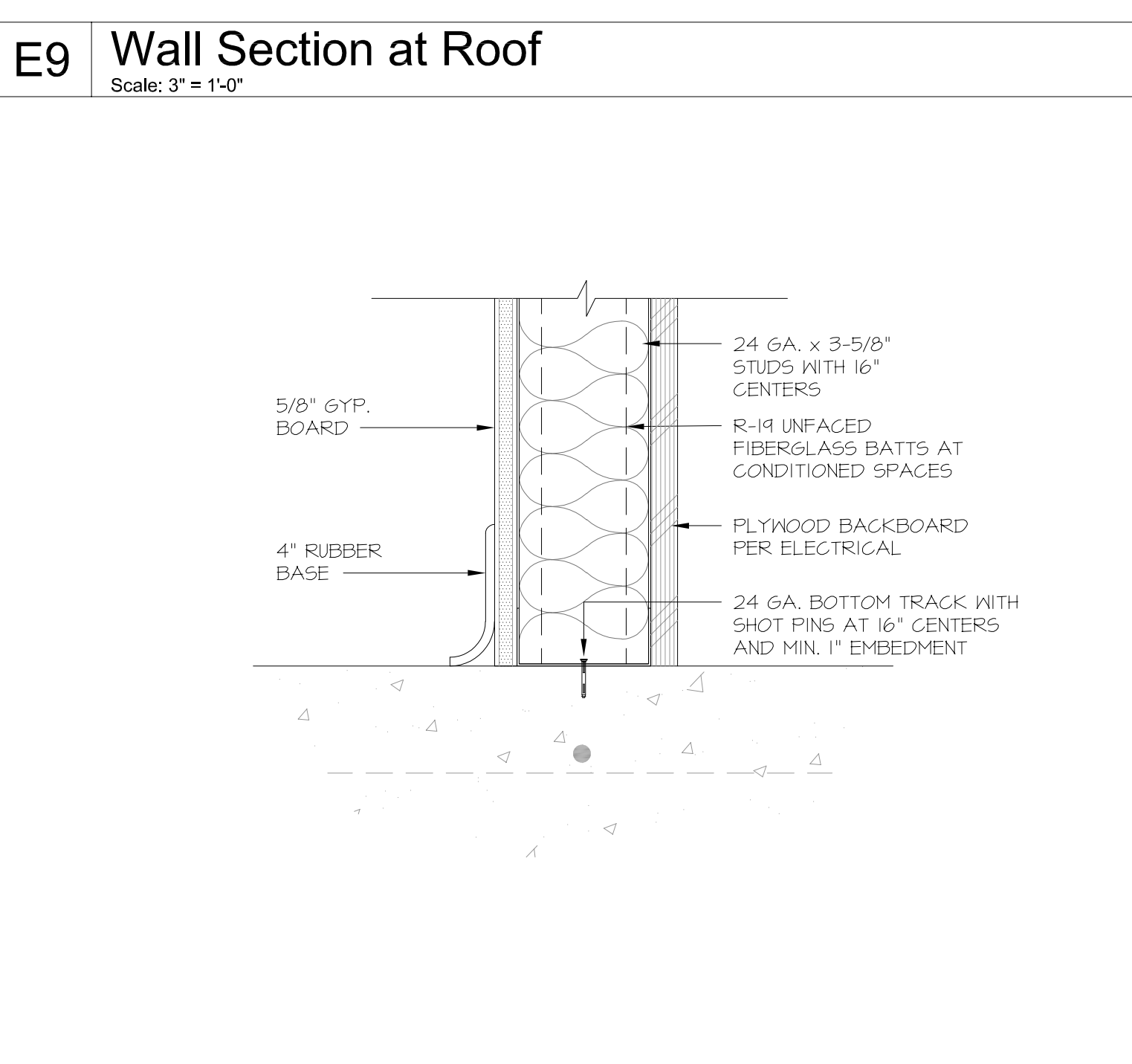
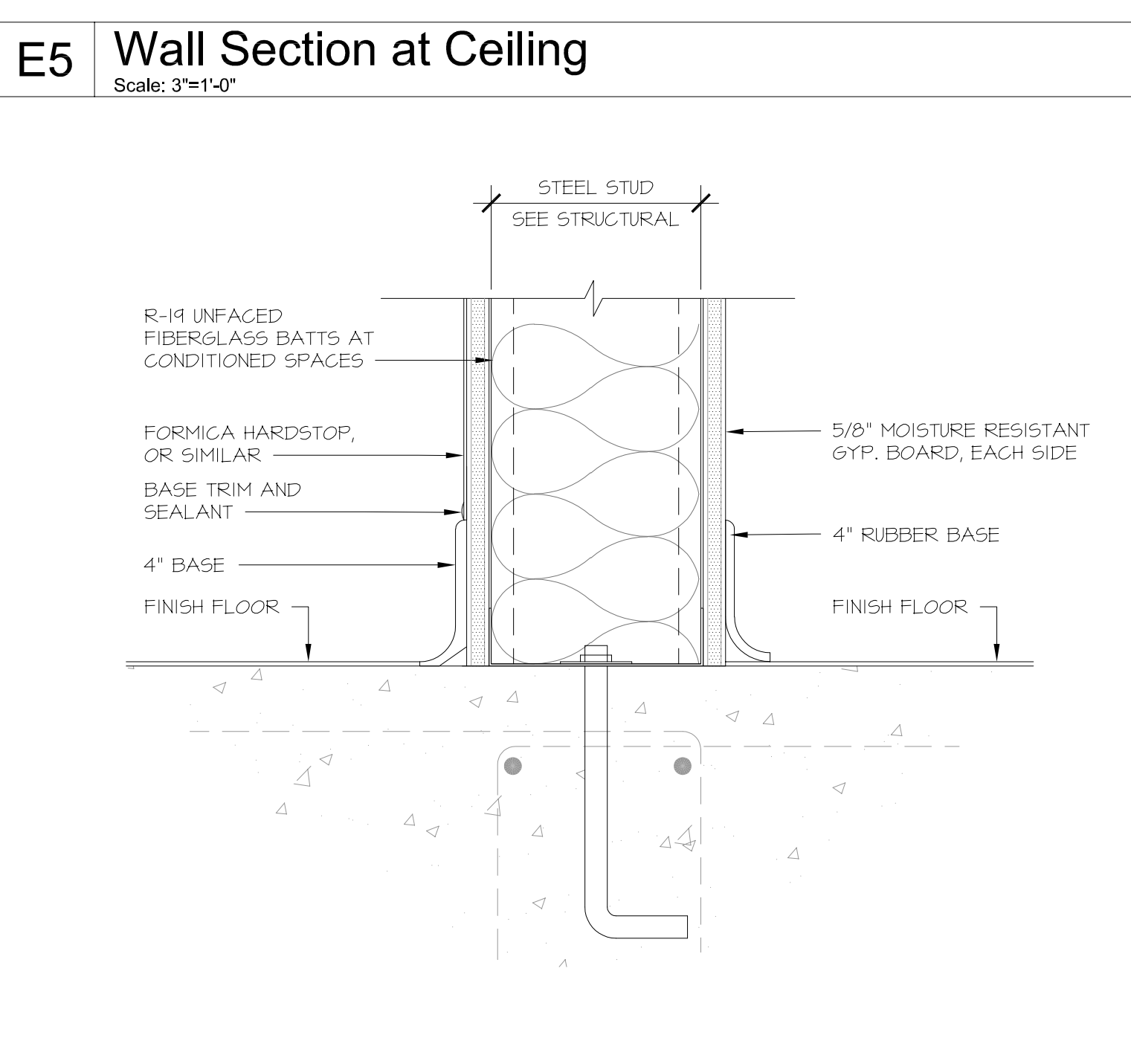
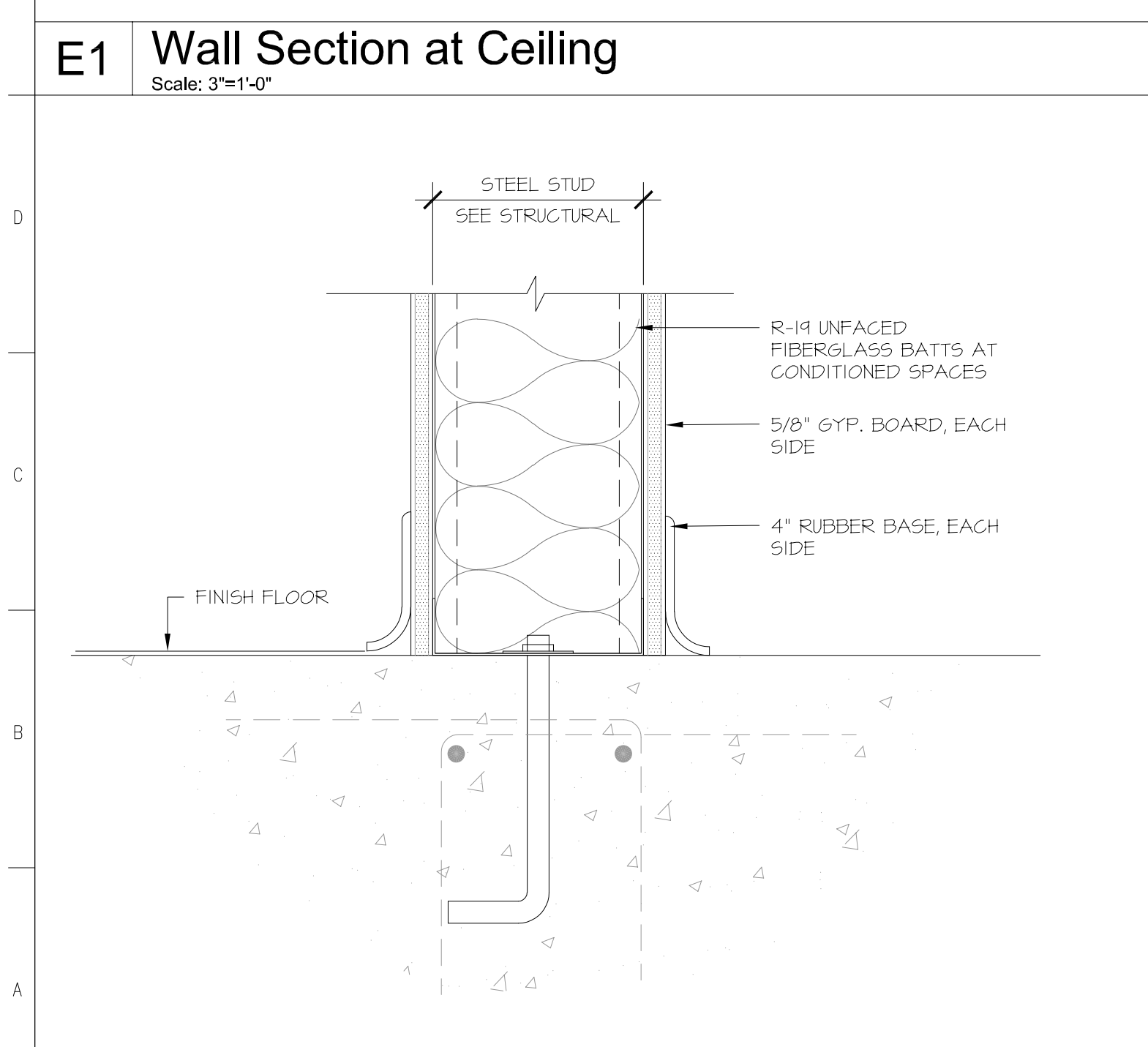
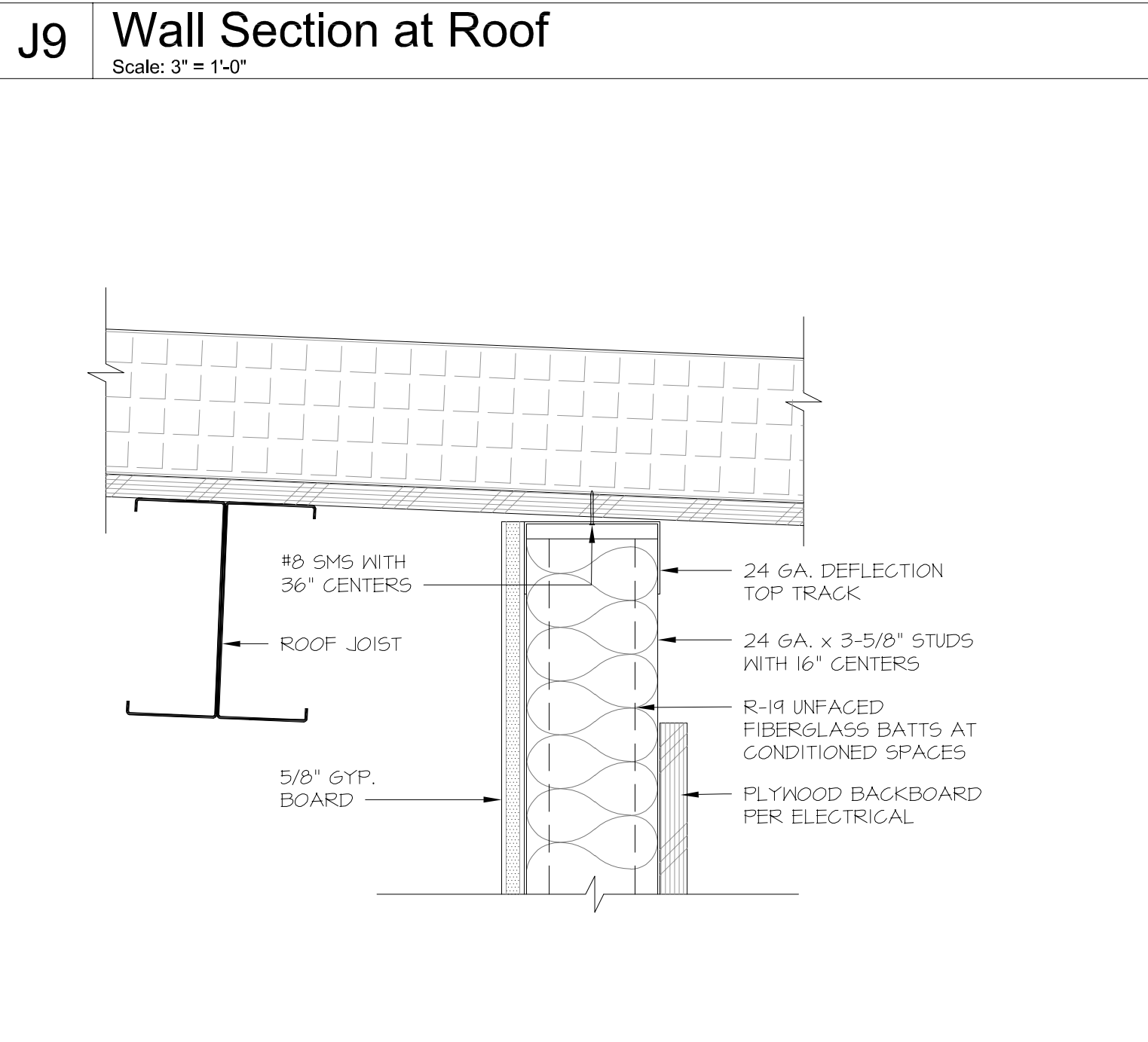
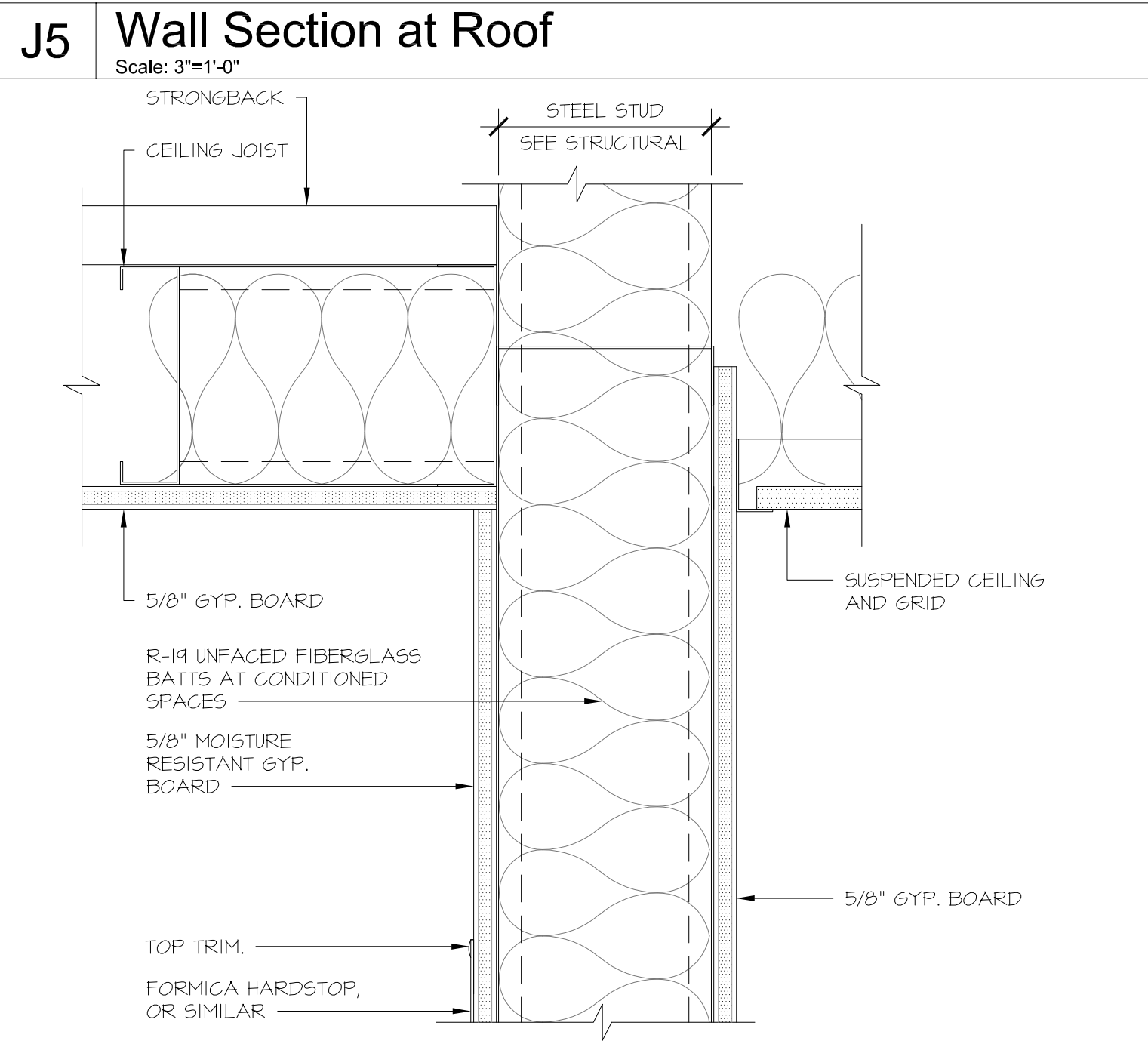
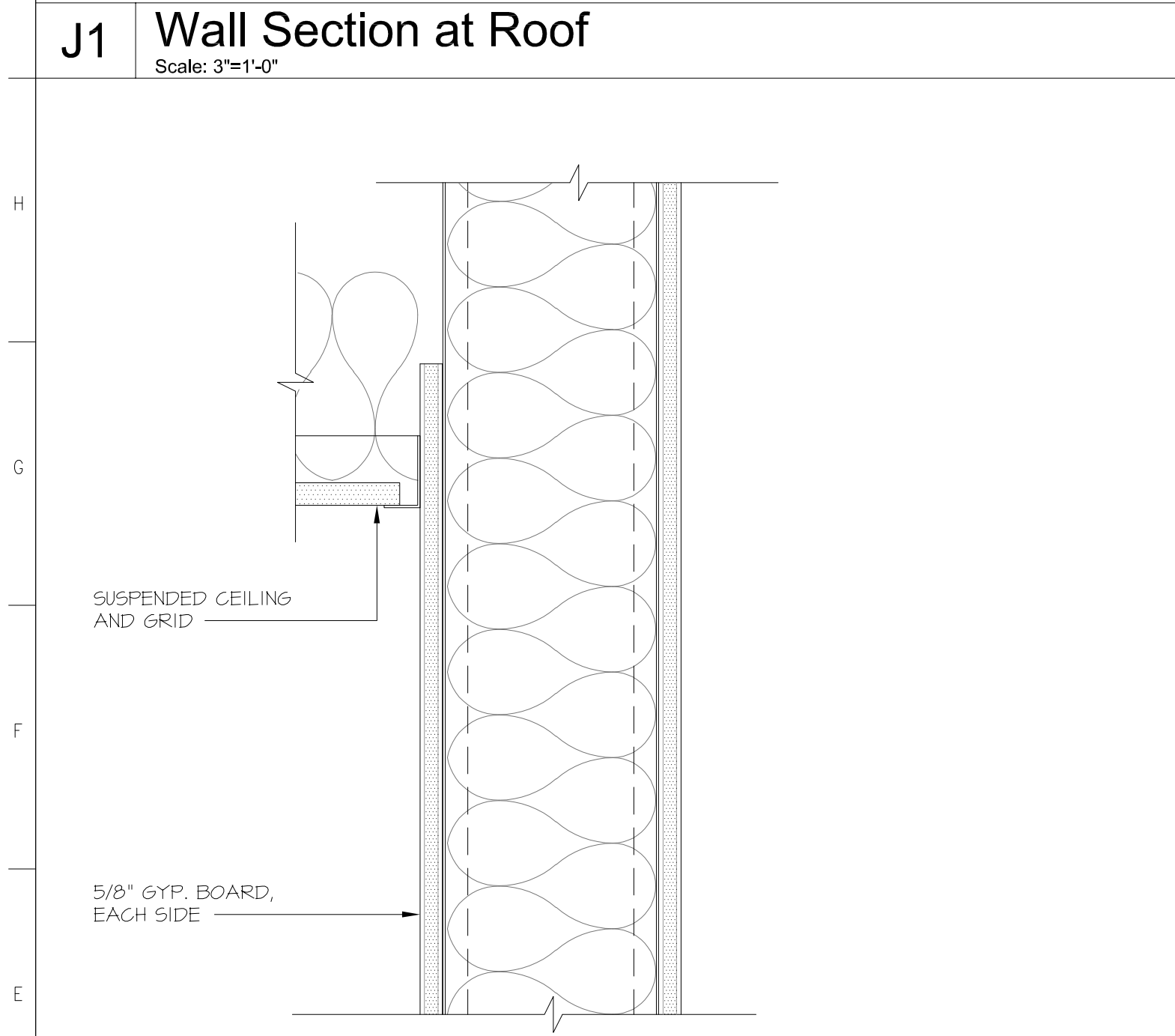
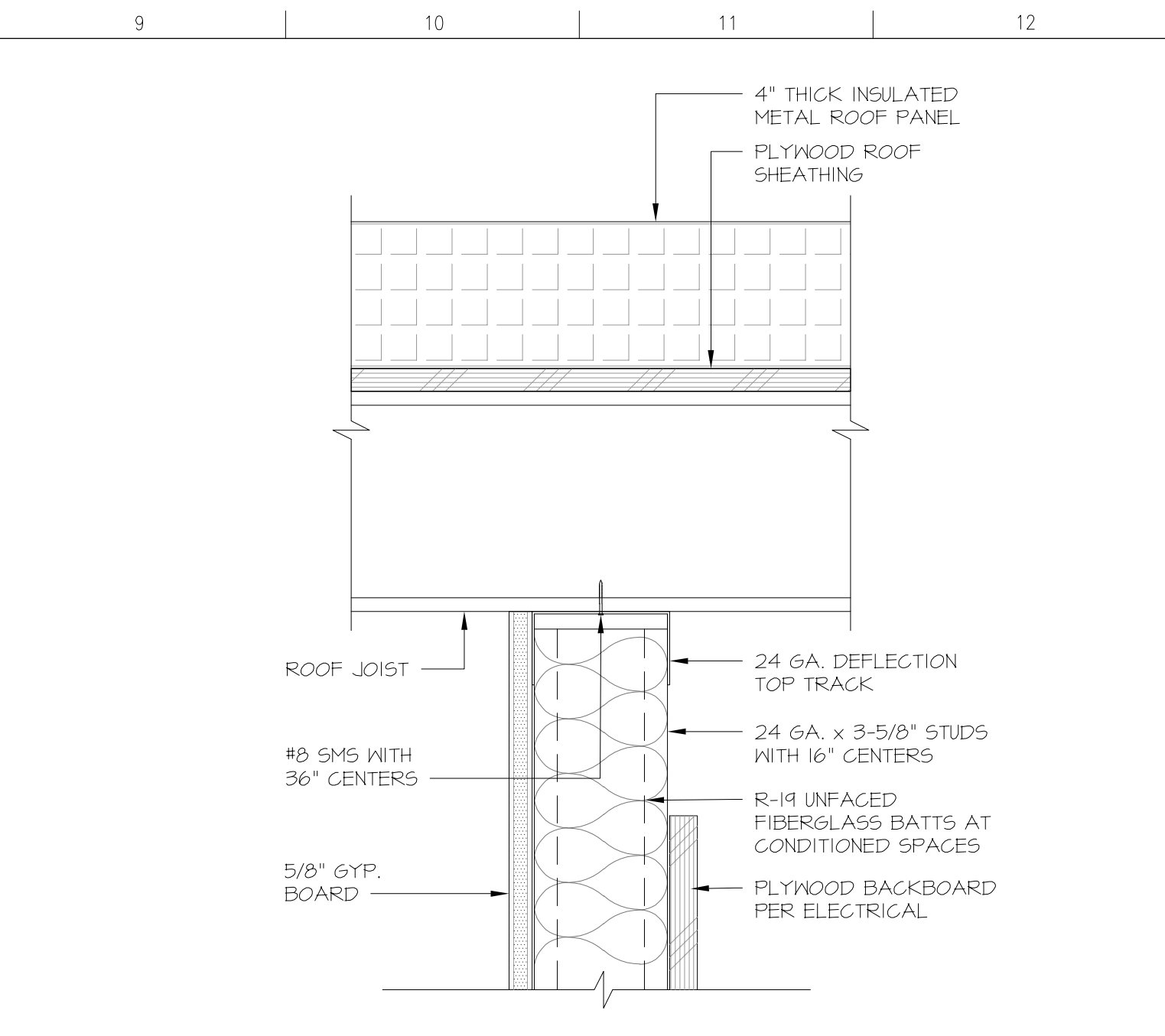
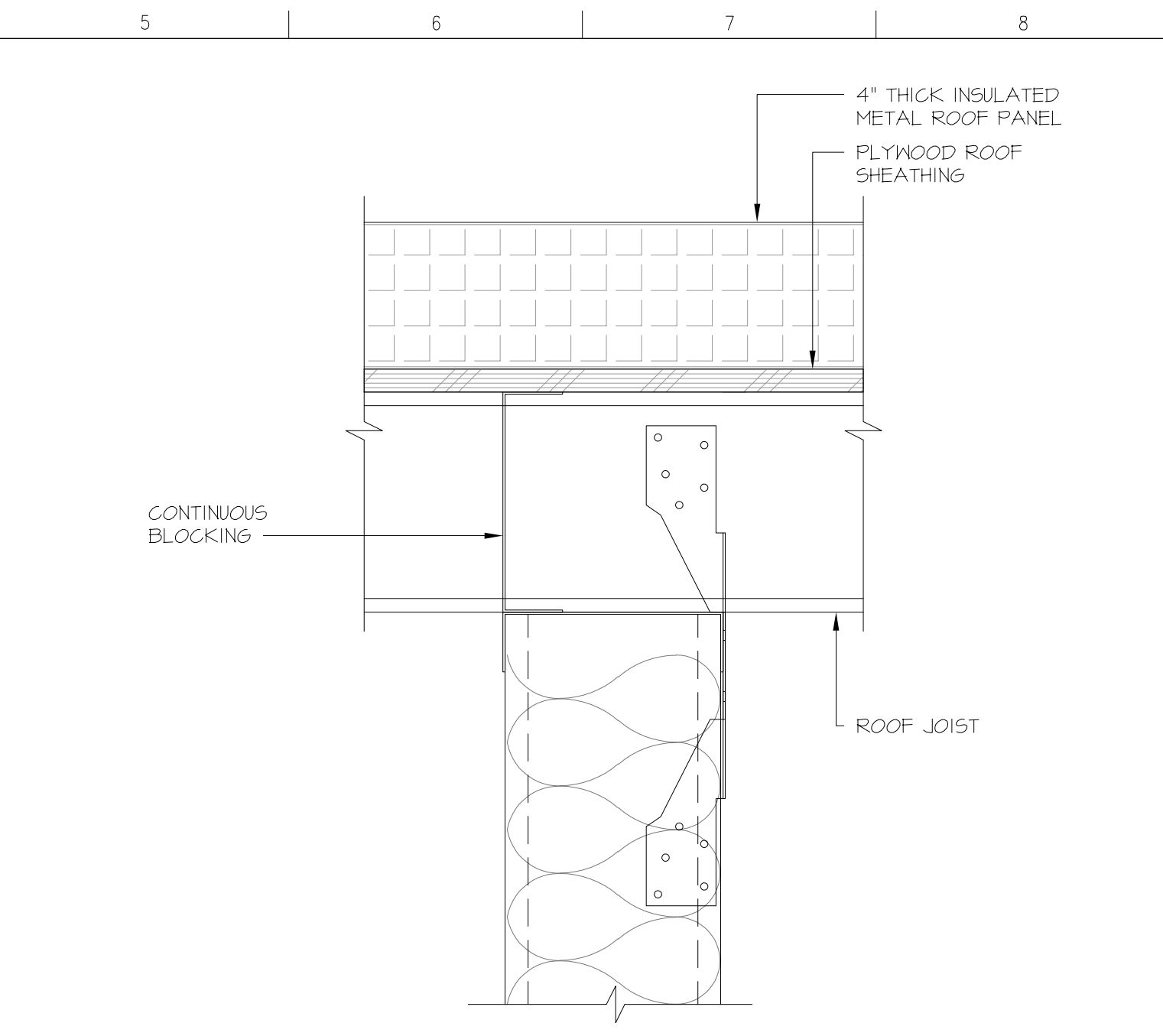
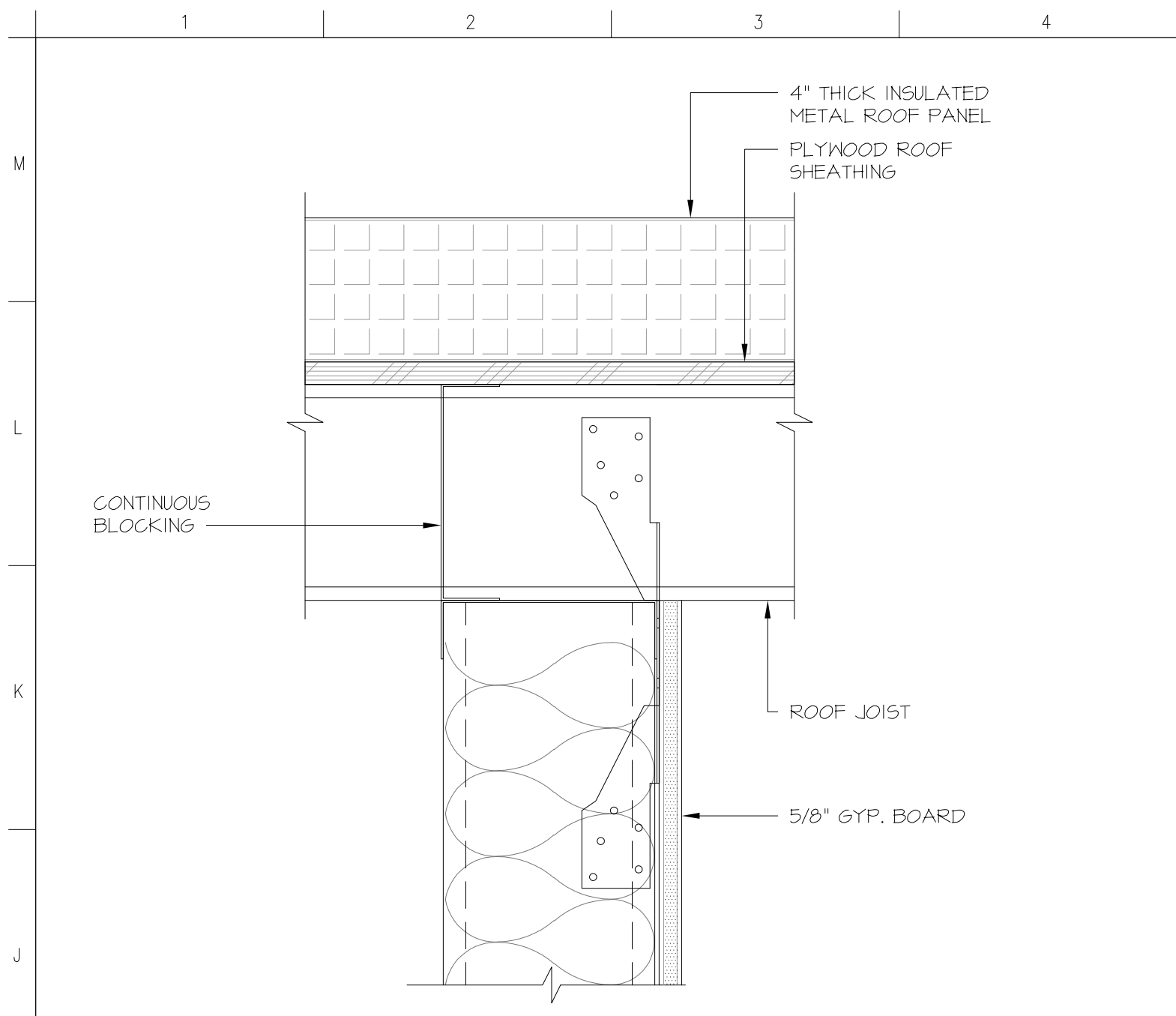
Sheet Content:
Building Sections & Wall Sections

Fresno County Department of
Public Works and Planning
Capital Projects

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.
A4.1

2	Bid Addendum 2 5-21-2021	A	Plan Review Corrections 5-21-2021
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A1 Wall Section at Base
Scale: 3"=1'-0"

A5 Wall Section at Base
Scale: 3"=1'-0"

A9 Wall Section at Base
Scale: 3"=1'-0"

J1 Wall Section at Roof
Scale: 3"=1'-0"

J5 Wall Section at Roof
Scale: 3"=1'-0"

J9 Wall Section at Roof
Scale: 3"=1'-0"

F13 Wall Section at Toilet Rooms
Scale: 3"=1'-0"

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**Fresno County
Environmental Compliance Center
Phase 2: Office / Storage Building**

Project Address: 310 S. West Avenue, Fresno CA 93706
APN: 458-060-72
Issue Date:
Project No. T90203
File Path: G:\Capital \ Projects \ Building Numbers \ American
Ave Landfill \ T90203 Environmental Compliance Center \ 00
2018 ECC

Sheet Content:
Wall Sections

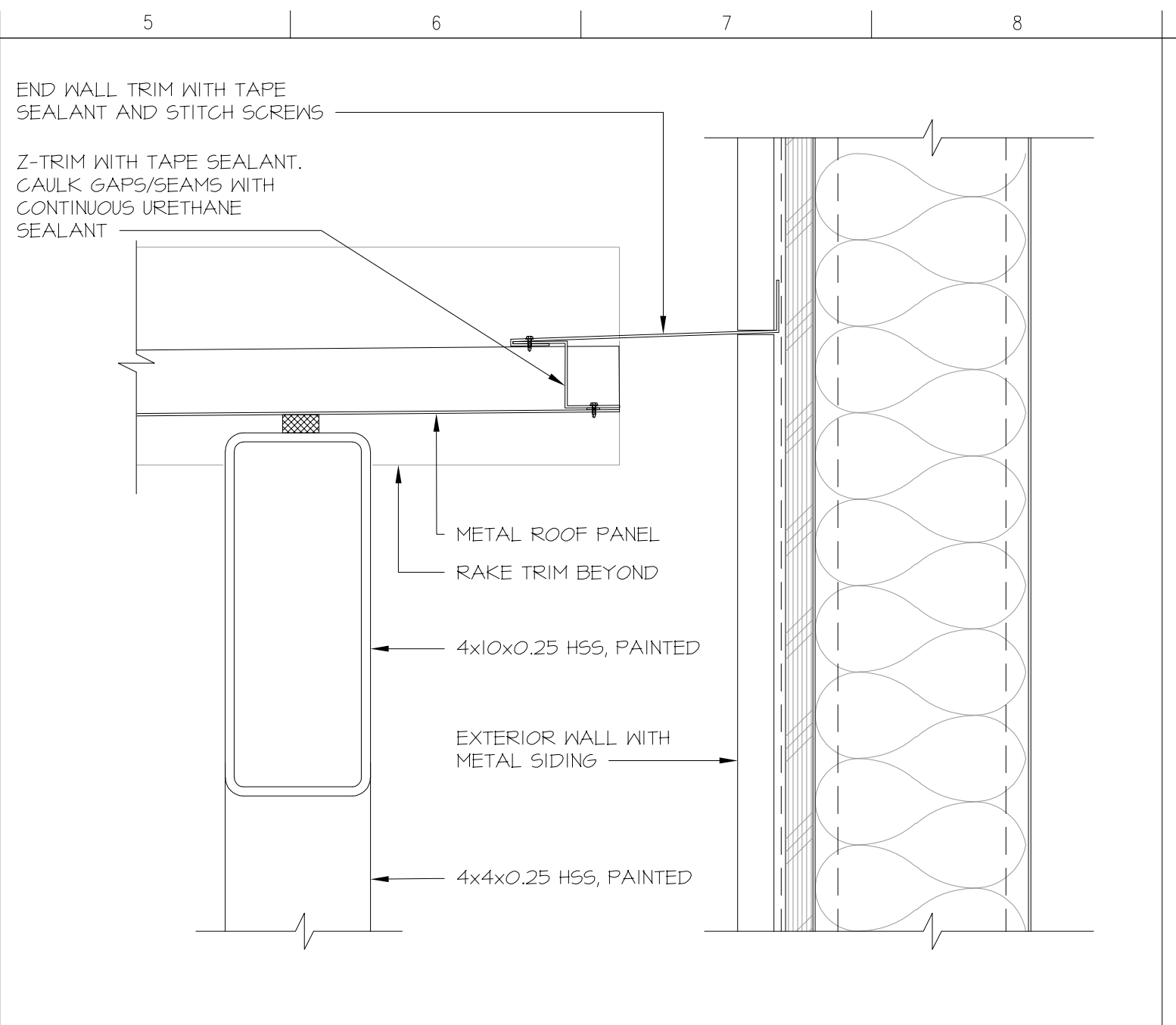
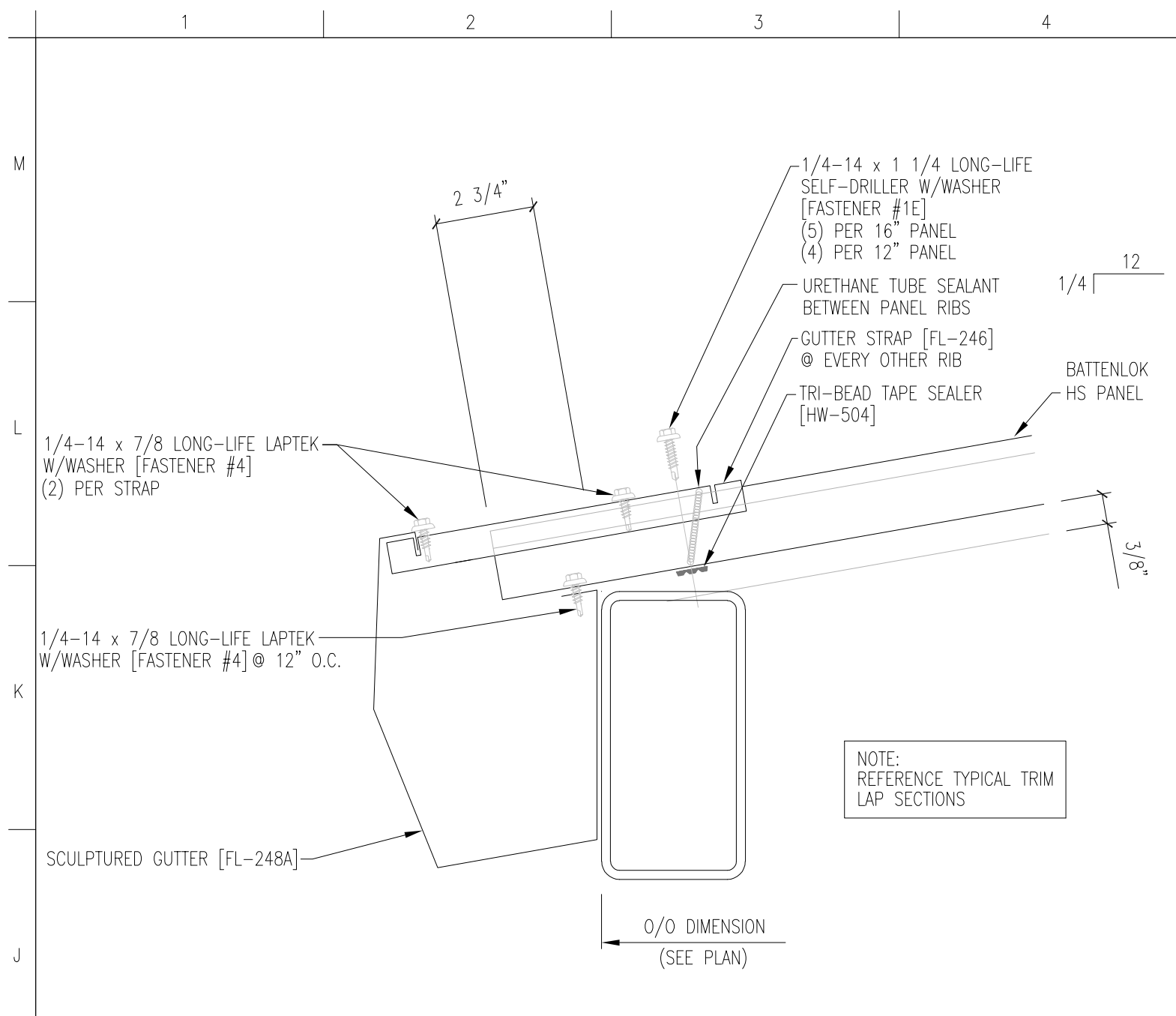
Fresno County Department of
Public Works and Planning
Capital Projects

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.
A4.2

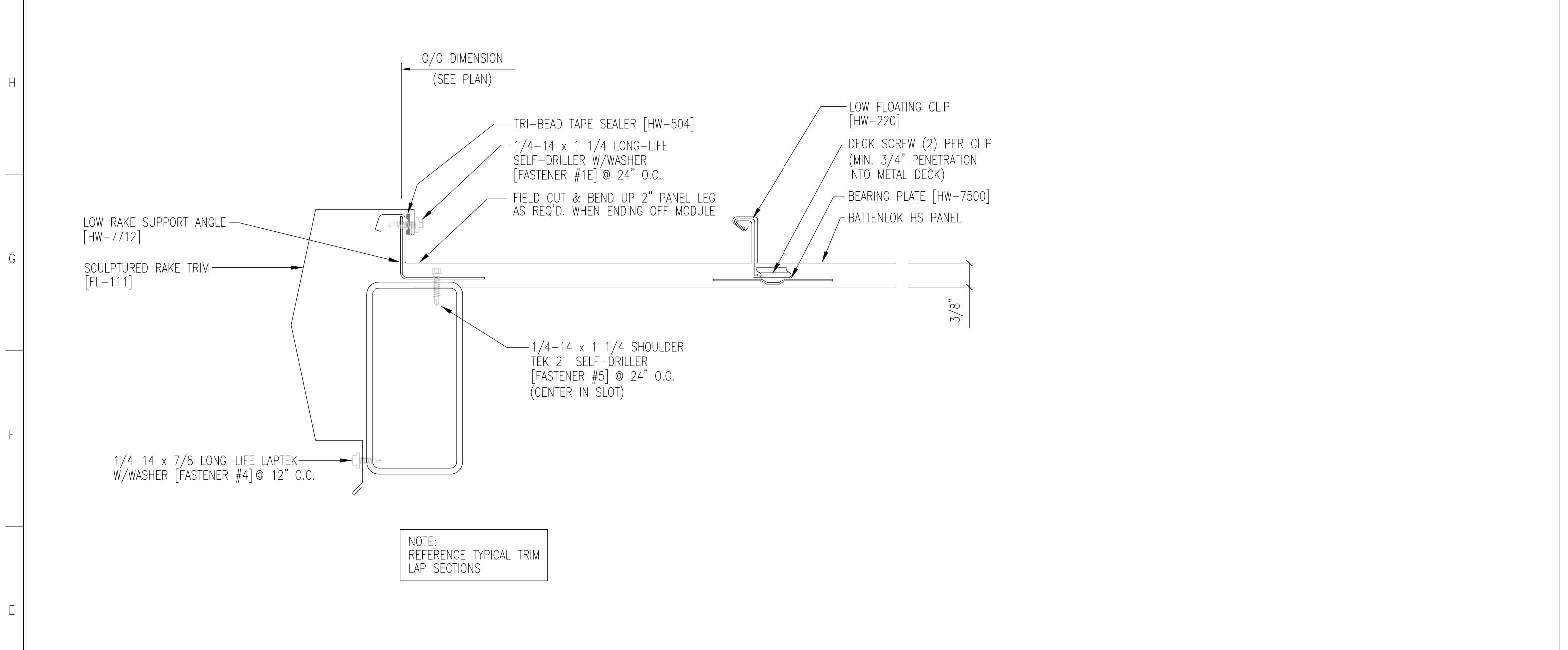
2 Bid Addendum 2
5-21-2021

A Plan Review Corrections
5-21-2021

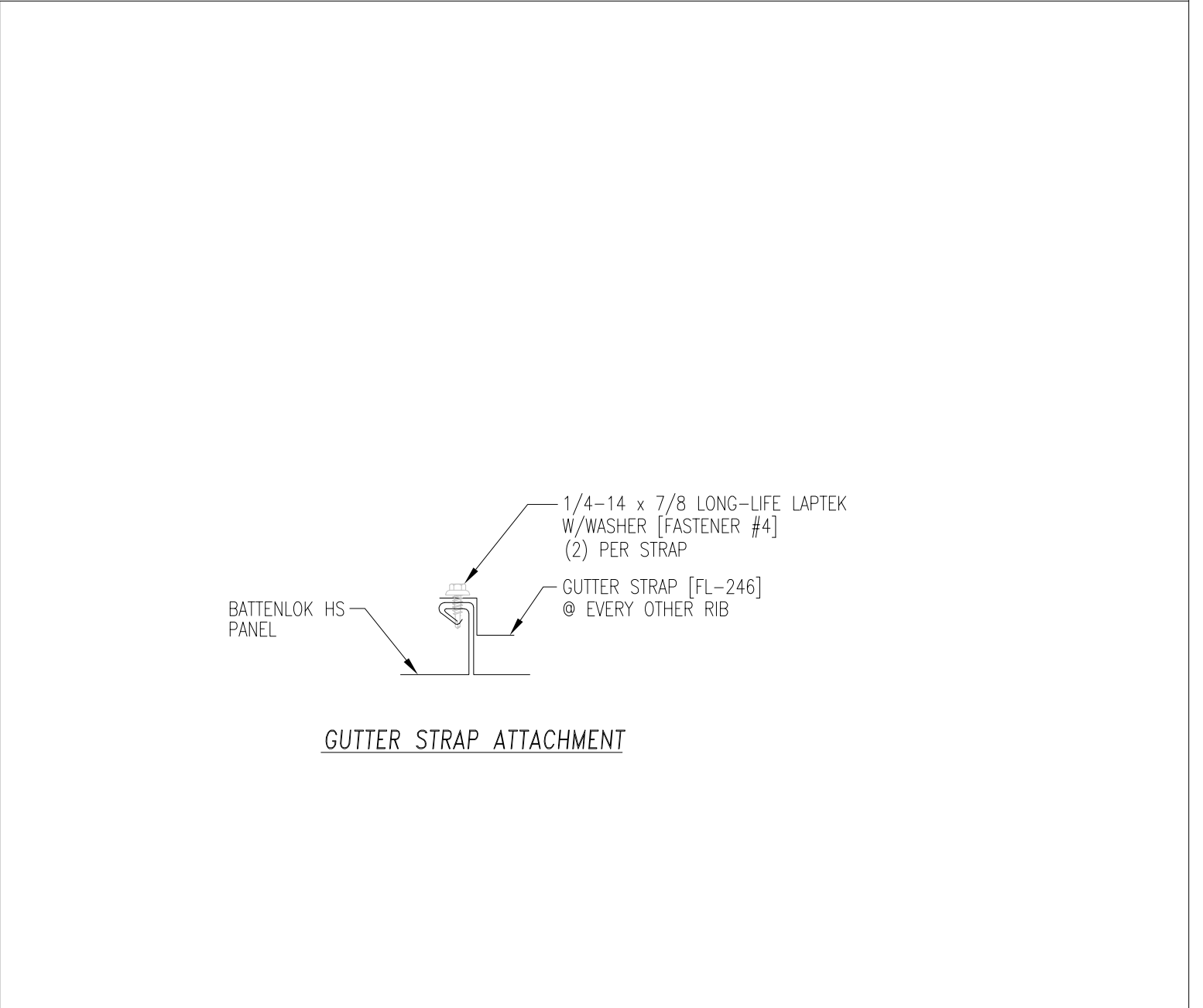
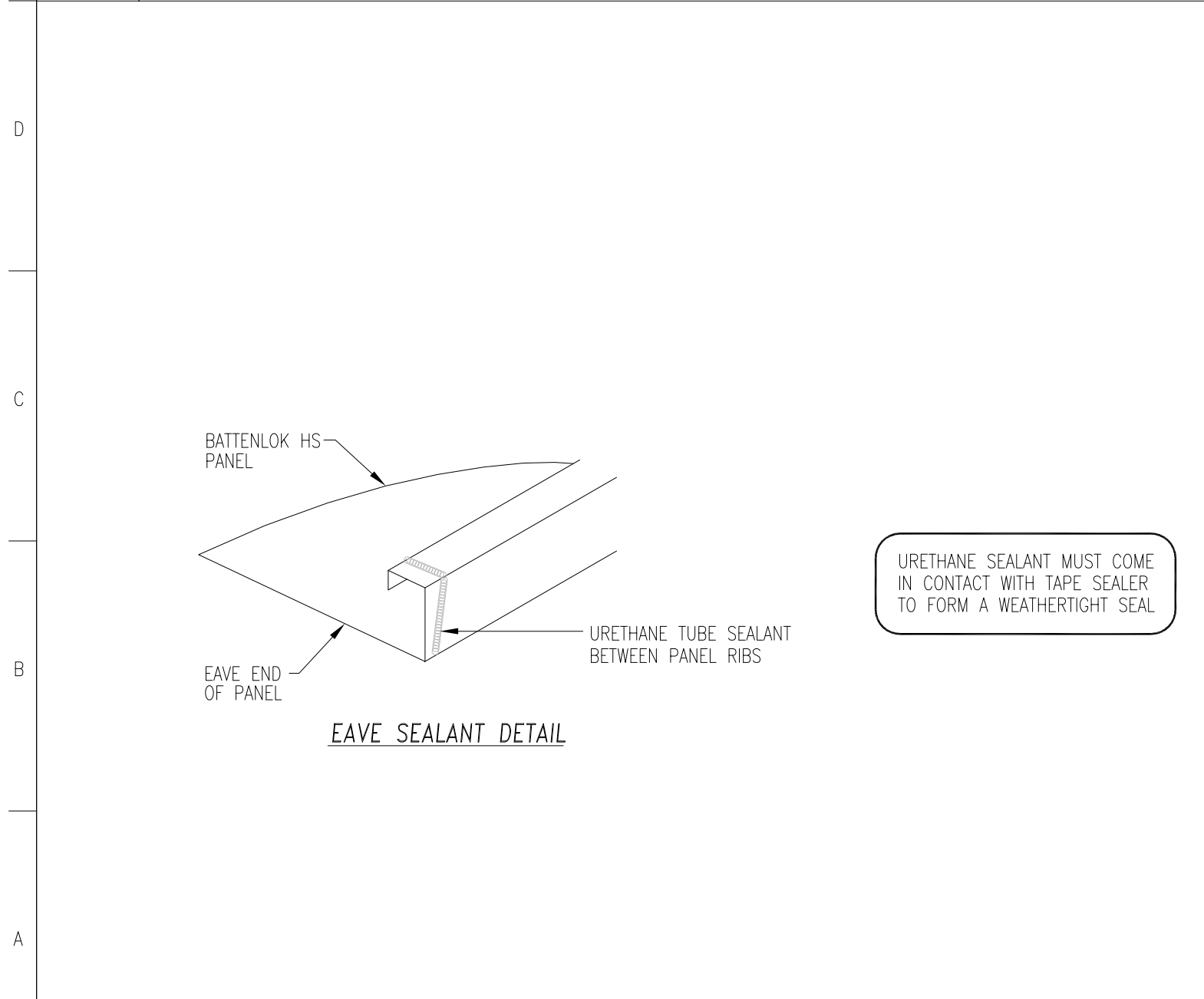


J1 Low Eave at Canopy
Scale: 3"=1'-0"

J5 High Eave at Canopy
Scale: 3"=1'-0"



E1 Rake at Canopy
Scale: 3"=1'-0"



A1 Eave Sealant Detail
Scale: 3"=1'-0"

A5 Gutter Strap Attachment
Scale: 3"=1'-0"



Fresno County Environmental Compliance Center Phase 2: Office / Storage Building

Project Address: 310 S. West Avenue, Fresno CA 93706
 APN: 458-060-72
 Issue Date:
 Project No. T90203
 File Path: G:Capital \ Projects \ Building Numbers \ American Ave Landfill \ T90203 Environmental Compliance Center \ 00 2018 ECC

Sheet Content:
 Canopy Details

Fresno County Department of Public Works and Planning Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No.
A4.3

2	Bid Addendum 2 5-21-2021	A	Plan Review Corrections 5-21-2021
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2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (January 2020, Includes August 2019 Supplement)

Y = YES APPLICABLE
N/A = NOT APPLICABLE
RESP. PARTY = RESPONSIBLE PARTY
A = ARCHITECT
E = ENGINEER
O = OWNER
C = CONTRACTOR
I = INSPECTOR

5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.
5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:

Table 5.504.4.1 - Adhesive VOC Limit. Columns: Adhesive Application, Current VOC Limit. Rows include Indoor Carpet Adhesives, Carpets, Wood Flooring Adhesives, etc.

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.
2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

Table 5.504.4.2 - Sealant VOC Limit. Columns: Sealant Application, Current VOC Limit. Rows include Architectural, Marine Deck, Nonmembrane Roof, etc.

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for VOC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances.

TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS

Table with 2 columns: Coating Category, Current VOC Limit. Rows include Flat Coatings, Nonflat Coatings, Specialty Coatings (Aluminum Roof, Basement, etc.), and Grams of VOC per Liter of Coating.

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

5.504.4.4 Carpet Systems. All carpet installed in the building interior shall meet at least one of the testing and product requirements:
1. Carpet and Rug Institute's Green Label Plus Program.
2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010.

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program.

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.

5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17CCR 93120 et seq.).

5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

- 1. Product certifications and specifications.
2. Chain of custody certifications.
3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 SS standards.
5. Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS: MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

Table with 2 columns: Product, Current Limit. Rows include Hardwood Plywood Veneer Core, Hardwood Plywood Composite Core, Particle Board, Medium Density Fiberboard, Thin Medium Density Fiberboard.

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.
2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

5.504.4.6 Resilient flooring systems. For 80 percent of floor area receiving resilient flooring, installed resilient flooring shall meet at least one of the following:

- 1. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program;
2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers, Version 1.1, February 2010;
3. Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria and listed in the CHPS High Performance Product Database; or
4. Products certified under UL GREENGUARD Gold (formerly the Greenguard Children's & Schools Program).

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Exceptions: Existing mechanical equipment.

5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

SECTION 5.505 INDOOR MOISTURE CONTROL
5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

SECTION 5.506 INDOOR AIR QUALITY
5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 1201, (Requirements For Ventilation) of the California Energy Code, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

5.506.2 CARBON DIOXIDE (CO2) MONITORING. For buildings or additions equipped with demand control ventilation, CO2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 1201(c)(4).

SECTION 5.507 ENVIRONMENTAL COMFORT
5.507.4 ACUSTICAL CONTROL. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

- 1. Within the 65 CNEL noise contour of an airport.
Exceptions:
1. L₅₀ or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICLUZ) plan.
2. L₅₀ or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.
2. Within the 65 CNEL or L₅₀ noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

5.507.4.1.1 Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L₅₀-1hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq-1hr) of 50 dBA in occupied areas during any hour of operation.

5.507.4.2.1 Site Features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior soundlevels shall be prepared by personnel approved by the architect or engineer of record.

5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have a STC of at least 40.

Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toobase.org/PDF/CaseStudies/site_jcc_ratings.pdf.

SECTION 5.508 OUTDOOR AIR QUALITY
5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO2), and potentially other refrigerants.

5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below.

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.

5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less.

5.508.2.1.2.1 Anchorage. One-fourth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.

5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.

Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.

5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.

5.508.2.2 Valves. Valves and fittings shall comply with the California Mechanical Code and as follows.

5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use.

5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.

5.508.2.2.2.2.1 Chain ladders. Chain ladders, chain levers, chain levers or other devices designed to have seal caps.

Exception: Valves with seal caps that are not removed from the valve during stem operation.

5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent corrosion from these substances.

5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device that indicates the level of refrigerant in the receiver.

5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and charging.

5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.

5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same gauge.

5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.

5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging.

5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes.

5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30 minutes.

5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

CHAPTER 7 INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS
702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

- 1. State certified apprenticeship programs.
2. Public utility training programs.
3. Training programs sponsored by trade, labor or statewide industry consulting or verification organizations.
4. Programs sponsored by manufacturing organizations.
5. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

- 1. Certification by a national or regional green building program or standard publisher.
2. Certification by a statewide industry consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
3. Successful completion of a third party apprentice training program in the appropriate trade.
4. Other programs acceptable to the enforcing agency.

Notes:
1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

[BSC-CC] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS
703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.



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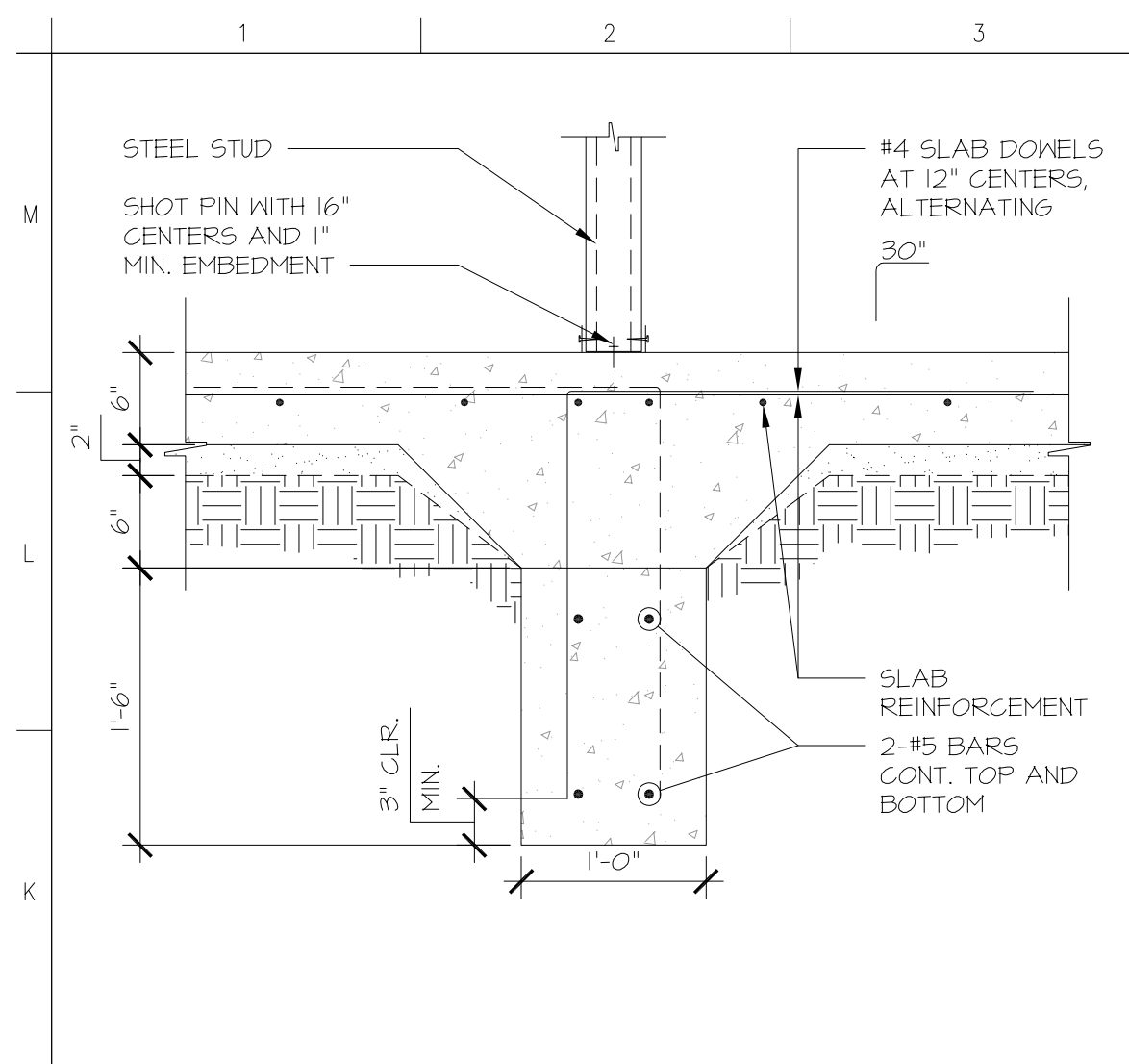
Fresno County Environmental Compliance Center Phase 2: Office / Storage Building
Project Address: 310 S. West Avenue, Fresno CA 93706
APN: 458-060-72
Issue Date: Project No. T90203
File Path: G:\Capital \ Projects \ Building Numbers 1 American Ave Landfill \ T90203 Environmental Compliance Center 00 2018 ECC

Sheet Content: CAL GREEN COMPLIANCE SHEET 3

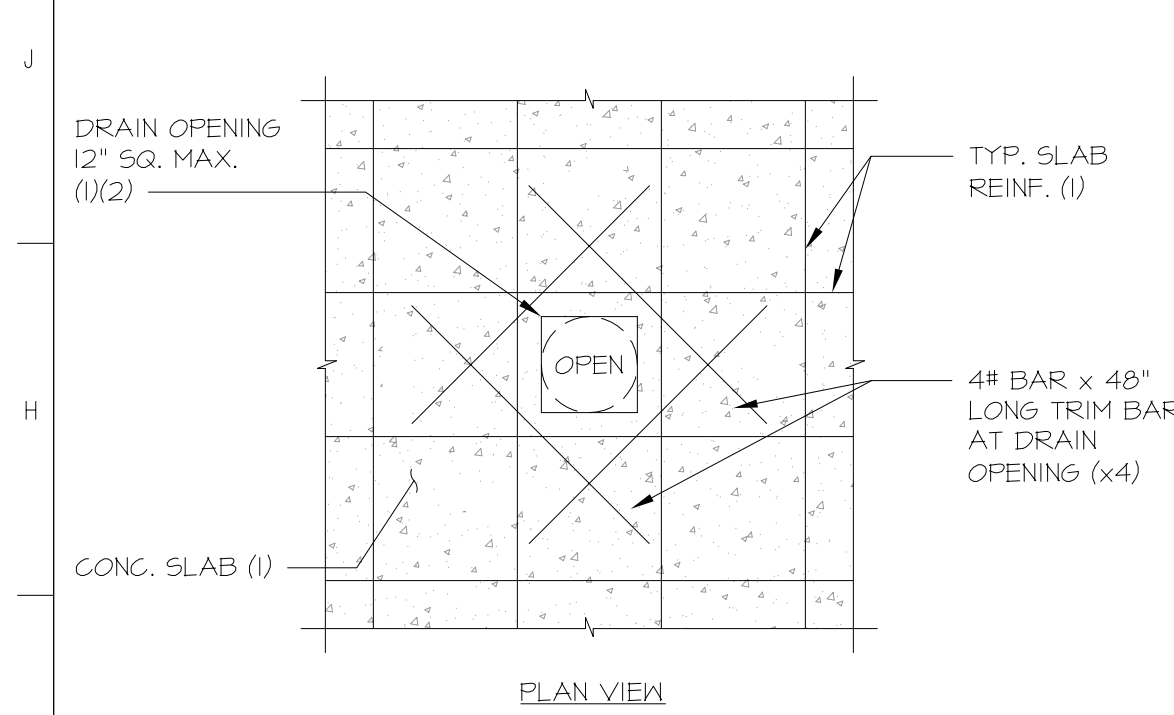
Fresno County Department of Public Works and Planning Capital Projects
2220 Tulare Street, 8th Floor Fresno, California 93721

Sheet No. A5.3

Bid Addendum 2 5-21-2021 Plan Review Corrections 5-21-2021

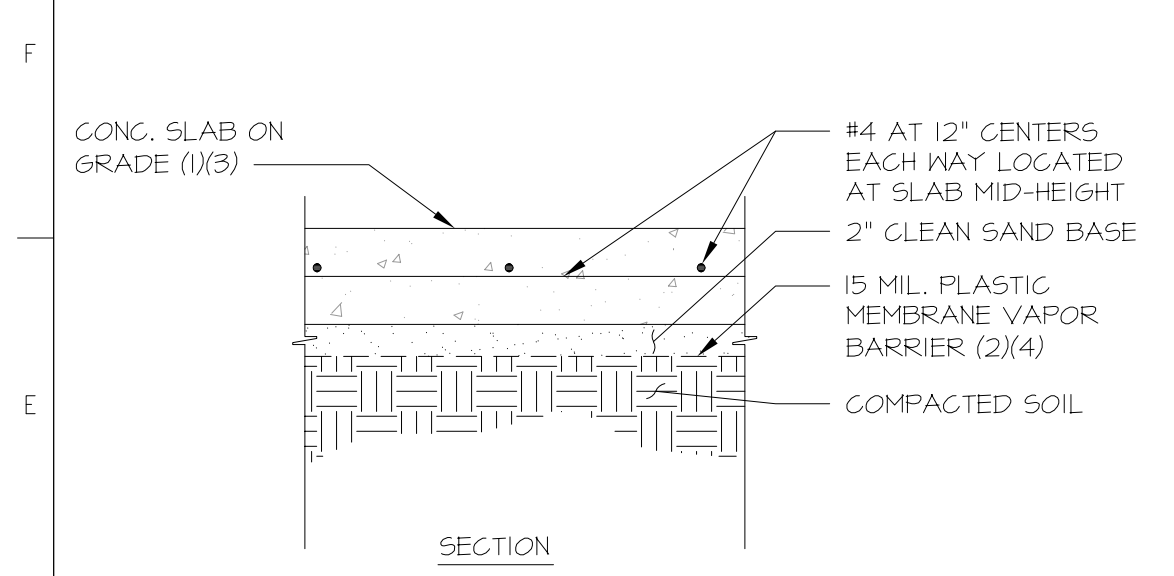


J1 Wall Anchorage
Scale: 1" = 1'-0"



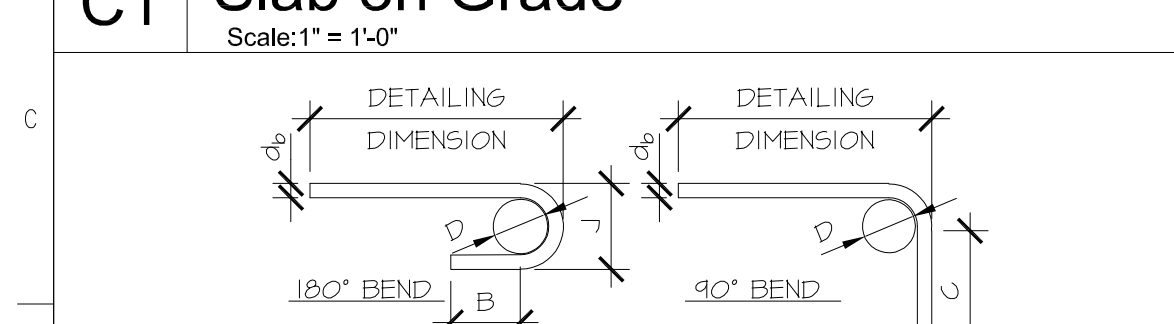
NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES
2. SEE ARCHITECTURAL PLAN

F1 Opening in Slab on Grade
Scale: NTS



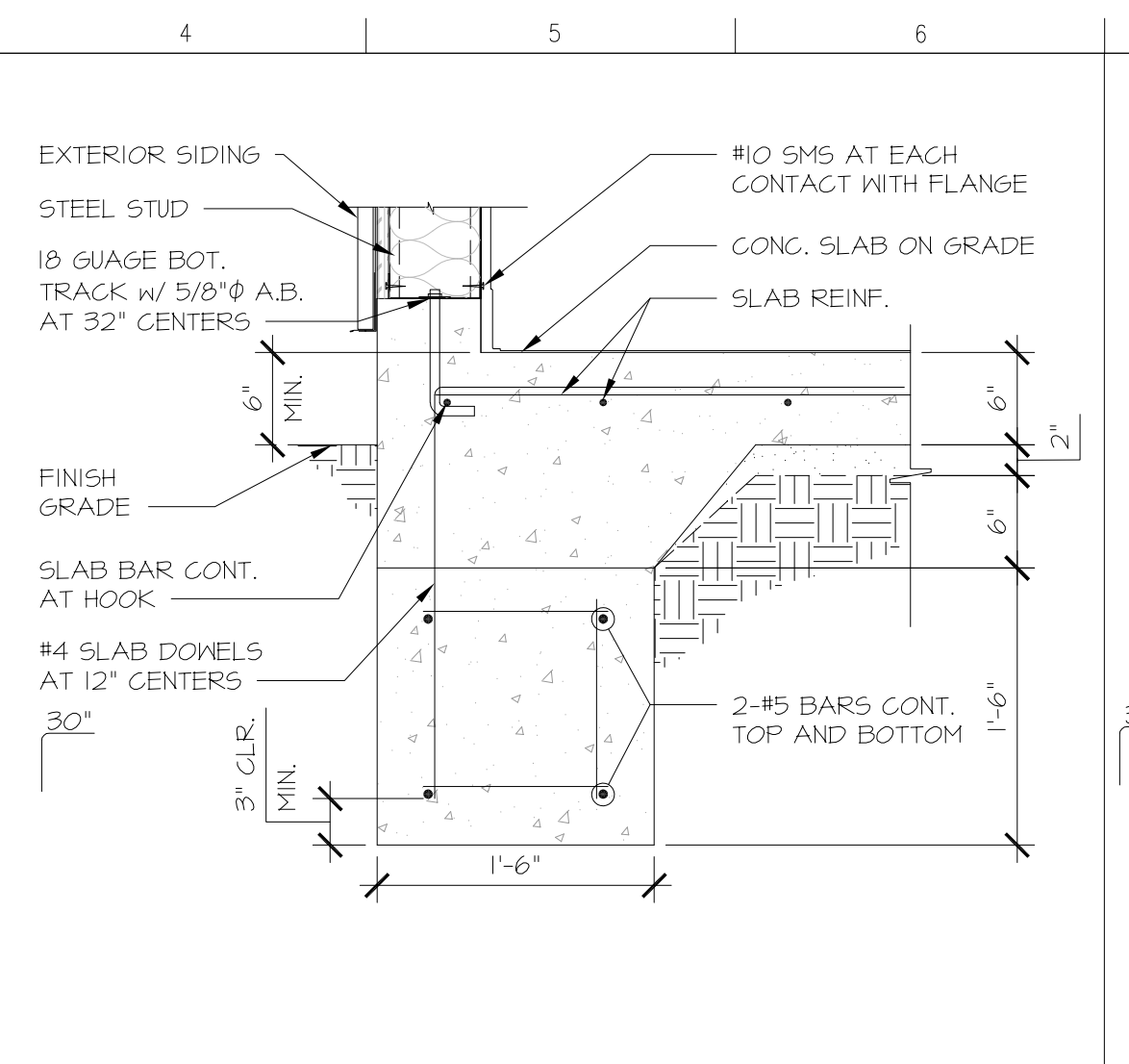
NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES
2. SEE PROJECT SOILS REPORT
3. SEE DETAIL C4/S2.1 FOR SLAB CONTROL JOINT
4. CARE SHALL BE TAKEN TO PROPERLY SEAL AND LAP THE VAPOR BARRIER, AND TO AVOID PUNCTURING

C1 Slab on Grade
Scale: 1" = 1'-0"

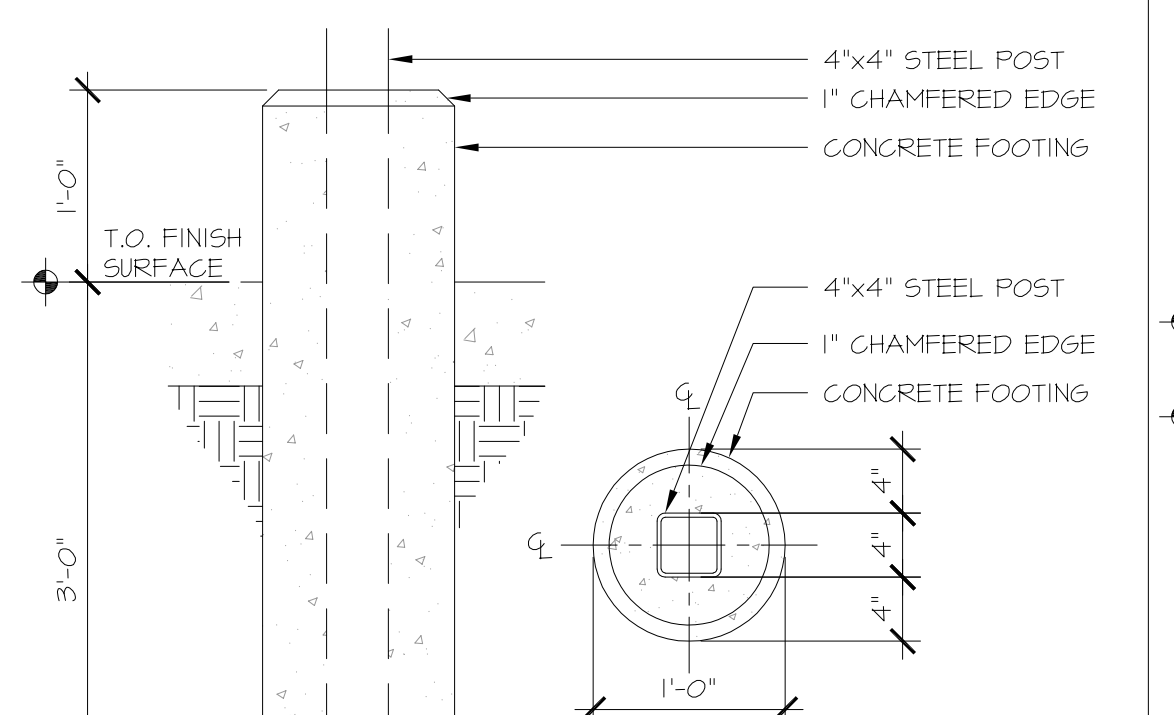


Bar Size	Dimension of Standard Hooks and Bends			
	D	J	B (4d _b) [2 1/2 min.]	C (12d _b)
#3	1 1/2"φ	2 1/4"	2 1/2"	4 1/2"
#4	2"φ	3"	2 1/2"	6"
#5	2 1/2"φ	3 3/4"	2 1/2"	7 1/2"
#6	4 1/2"φ	6"	3"	9"
#7	5 1/4"φ	7"	3 1/2"	10 1/2"
#8	6"φ	8"	4"	12"
#9	9"φ	11 1/4"	4 1/2"	13 1/2"
#10	10"φ	12 1/2"	5"	15"

A1 Rebar Hooks & Bends
Scale: NTS

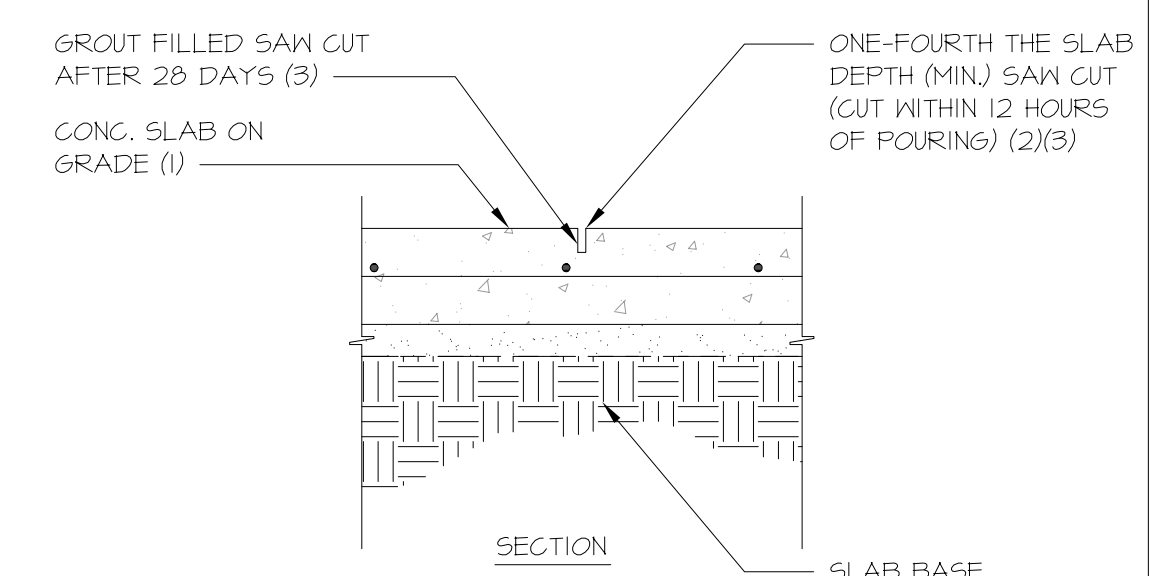


J4 Continuous Exterior Footing
Scale: 1" = 1'-0"



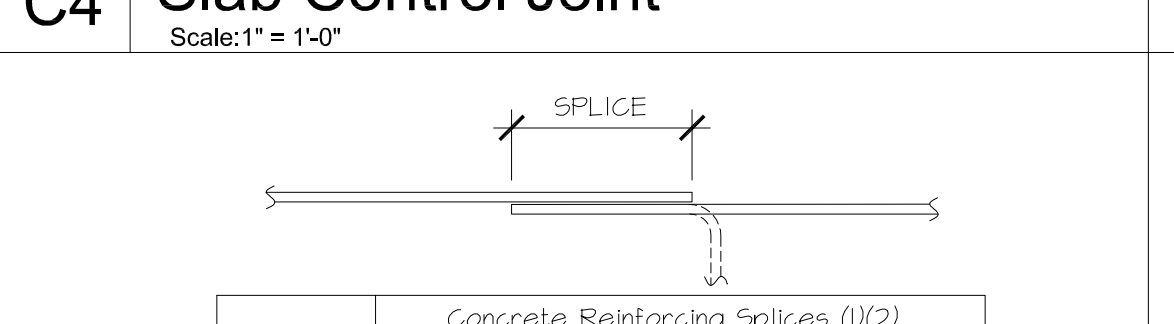
NOTES: (#)
1. SEE TYPICAL SLAB SECTION FOR SLAB CONSTRUCTION AND REINFORCEMENT
2. PROVIDE JOINTS AT 10' CENTERS (MAX) UNLESS OTHERWISE NOTED ON PLANS
3. CONTRACTOR OPTION: A PLASTIC 'ZIP STRIP' OR 'QUICK-JOINT' MAY BE USED IN LIEU OF SAWCUT

F4 Post Footings at Covered Walk
Scale: 1" = 1'-0"



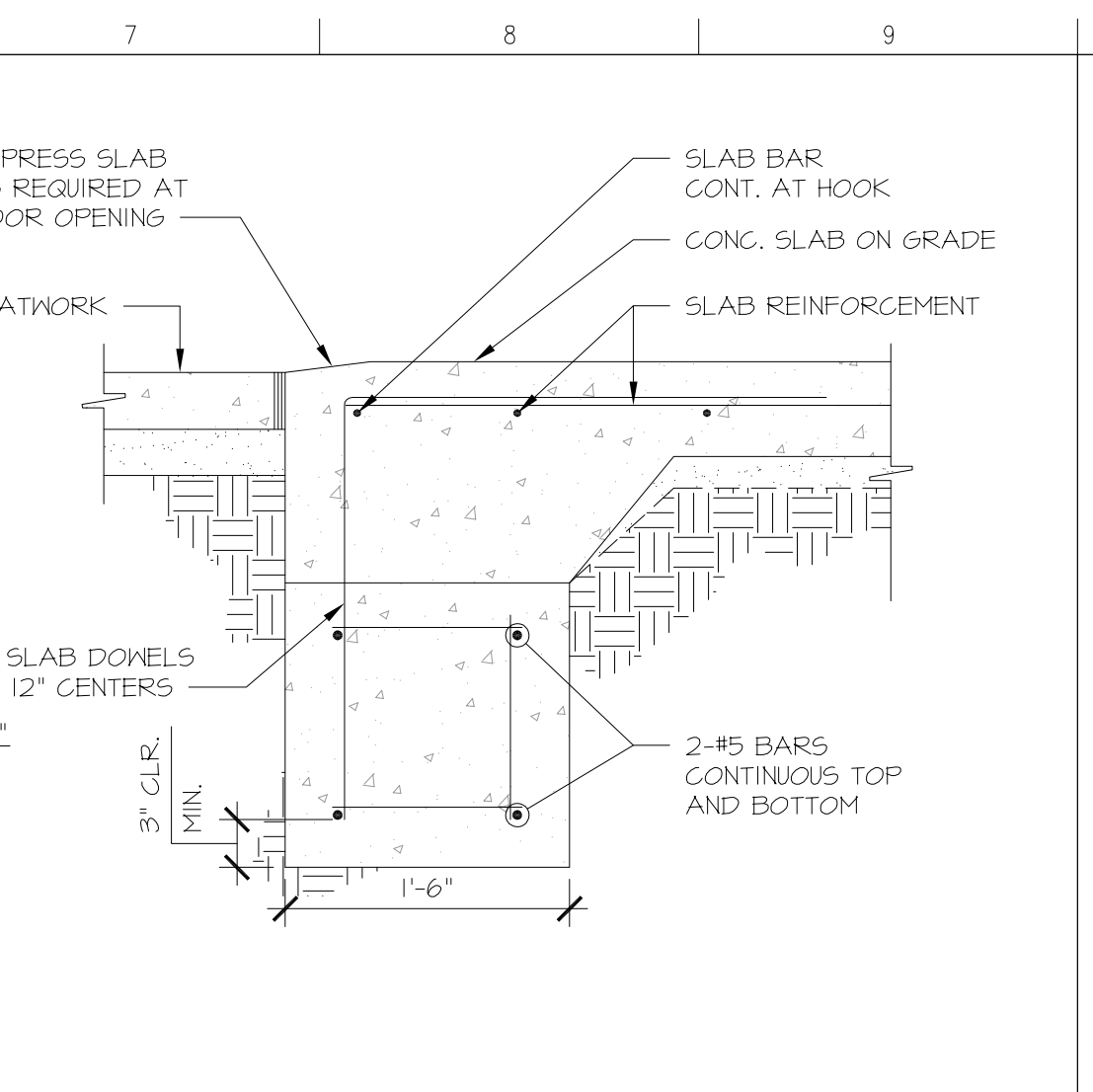
NOTES: (#)
1. SEE TYPICAL SLAB SECTION FOR SLAB CONSTRUCTION AND REINFORCEMENT
2. PROVIDE JOINTS AT 10' CENTERS (MAX) UNLESS OTHERWISE NOTED ON PLANS
3. CONTRACTOR OPTION: A PLASTIC 'ZIP STRIP' OR 'QUICK-JOINT' MAY BE USED IN LIEU OF SAWCUT

C4 Slab Control Joint
Scale: 1" = 1'-0"

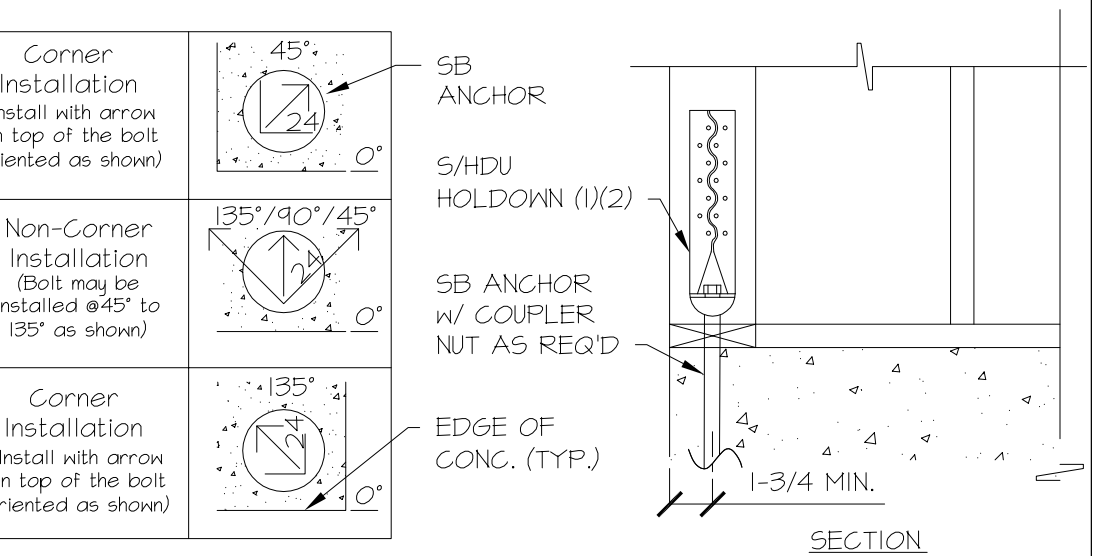
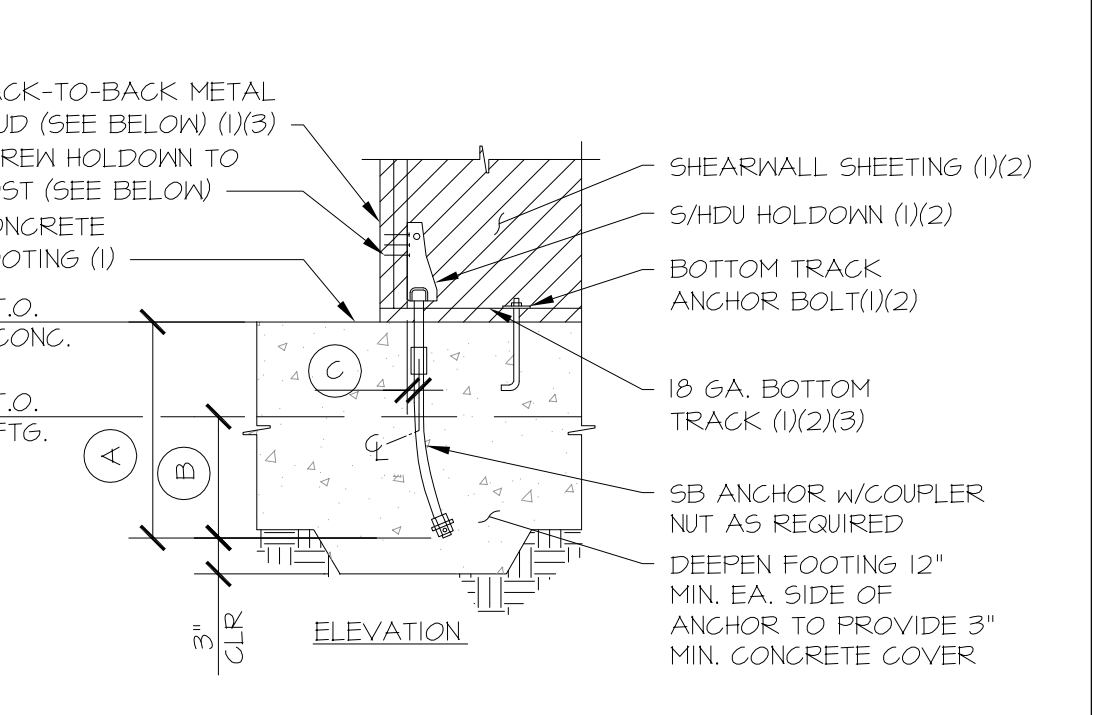


Bar Size	Concrete Reinforcing Splices (1/2)	
	Class A Splice (3/4)	Class B Splice (3)
#3	15"	18"
#4	24"	30"
#5	36"	47"
#6	43"	56"
#7	63"	81"

A4 Typical Lap Splices
Scale: NTS



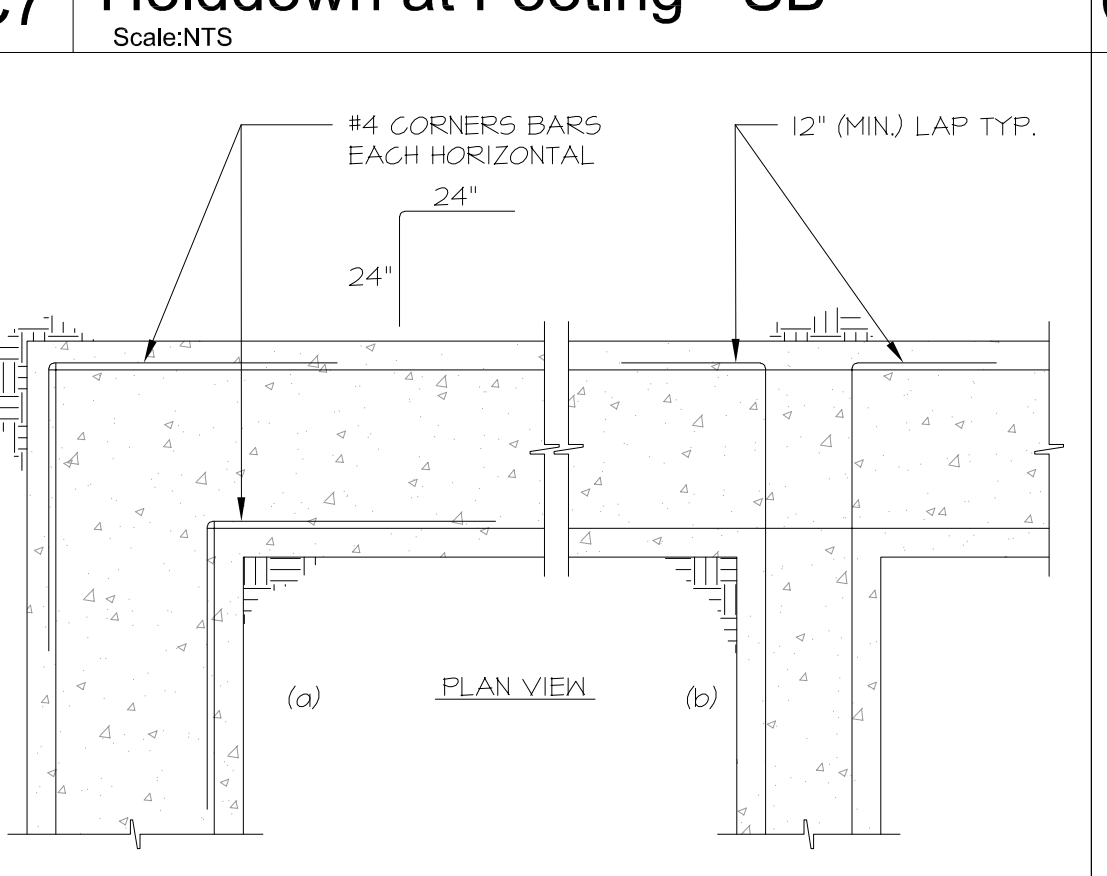
J7 Footing at Opening
Scale: 1" = 1'-0"



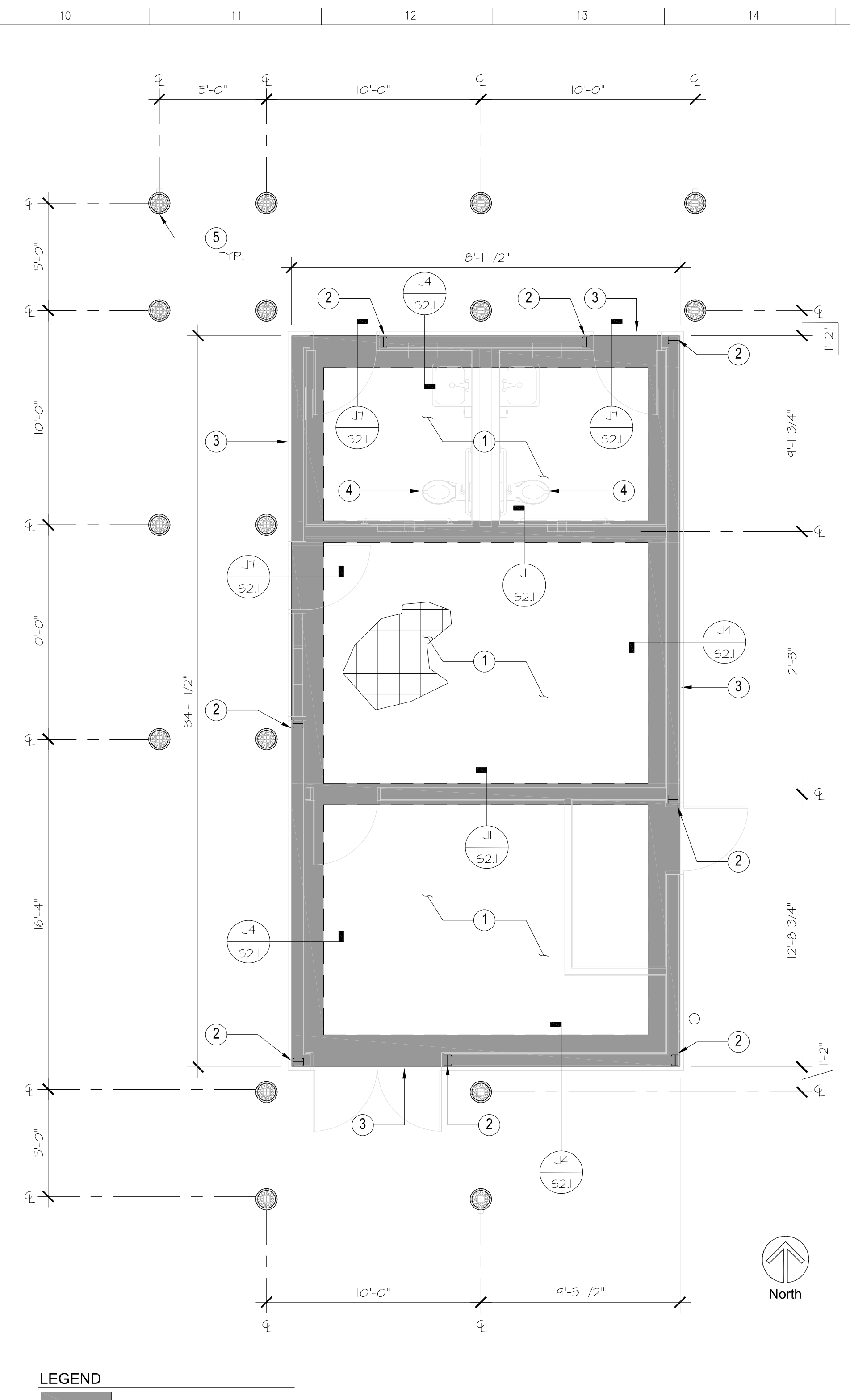
Holddown (4)	Post Screws (6)	Min. Post (5)	Anchor (4)			C	
			Diameter	A (Min)	B (Min)		Min. Model No.
S/HDU4	6-#14	2-18 GA.	5/8"φ	18"	6 3/4"	SB 5/8x24	1 3/8"

NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES
2. SEE SHEARWALL SCHEDULE AND NOTES
3. MEMBER TO RECEIVE SHEARWALL EDGE SCREWING, FULL LENGTH
4. SEE CURRENT EDITION OF THE SIMPSON STRONG-TIE CATALOG
5. MINIMUM POST SIZE, UNLESS NOTED OTHERWISE ON THE FOUNDATION/FRAMING PLAN, OR SHEARWALL SCHEDULE
6. USE #14 SHEET METAL SCREWS

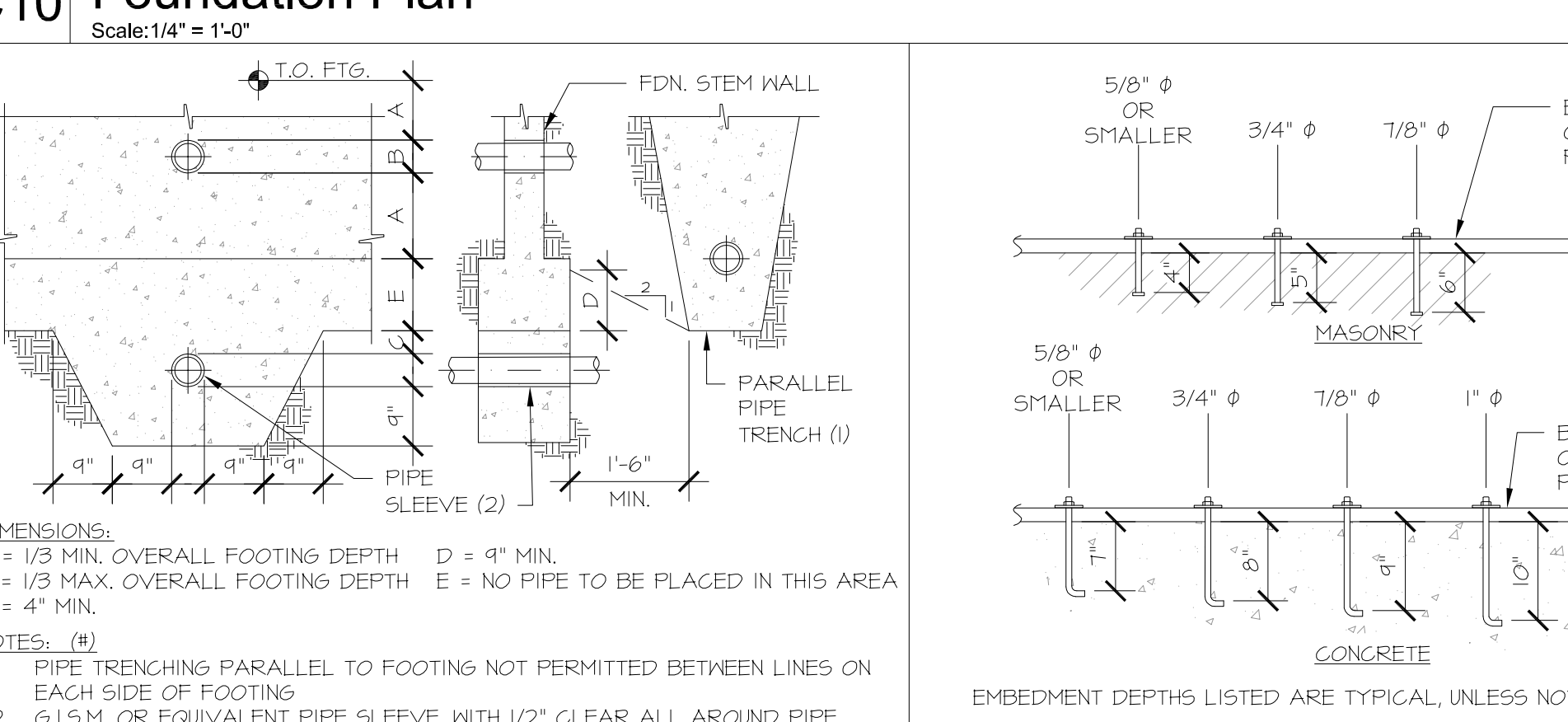
C7 Holddown at Footing - SB
Scale: NTS



A7 Typical Footing Corner
Scale: NTS



C10 Foundation Plan
Scale: 1/4" = 1'-0"



A10 Pipe Through Footing
Scale: NTS

GENERAL FOUNDATION NOTES:
A. Dimensions of footings are to face of concrete, U.N.O.
B. Dimensions of column footings are to centerline of column, U.N.O.
C. The foundation design is based on the minimum requirements outlined in the Project Geotechnical Report by County of Fresno, dated April 22, 2020 (Report No. T90203)
D. Prior to the Contractor requesting a Building Department Foundation Inspection, the project Geotechnical Engineer shall advise the Building Official in writing that:
1. The building pad was prepared in accordance with the approved construction documents and project Geotechnical Engineer's recommendations
2. The utility trenches have been properly backfilled and compacted
3. The foundation excavations comply with the project Geotechnical Engineer's recommendations and are founded into firm competent material
4. The soils expansion index is verified
E. See Architectural Drawings for all embedded items and non-structural components associated with concrete work
F. For typical rebar bends and laps, see details A1 and A4 on Sheet S2.1
G. For typical intersecting footing configurations, see details A7/S2.1
H. For typical pipe through footing, see detail A10/S2.1
I. For typical anchor bolt embedment, see detail A13/S2.1
K. Holdowns, anchor bolts, tiedown anchors, foundation straps, etc. shall be in place held by templates or wire ties, prior to concrete inspection

FOUNDATION PLAN KEYNOTES: (#)
1. Concrete Slab on Grade: 6" slab with #4 bars at 12" centers each way.
a. For slab section and underlayment, see detail C1/S2.1.
b. Concrete control joints. See detail C4/S2.1.
2. Simpson holddown anchor to back to back stud per detail C7/S2.1.
3. Edge of slab on grade
4. Plumbing fixtures
a. Refer to Architectural drawings
b. For slab penetration, refer to detail F1/S2.1
5. Post footing at covered walk. See detail F4/S2.1.



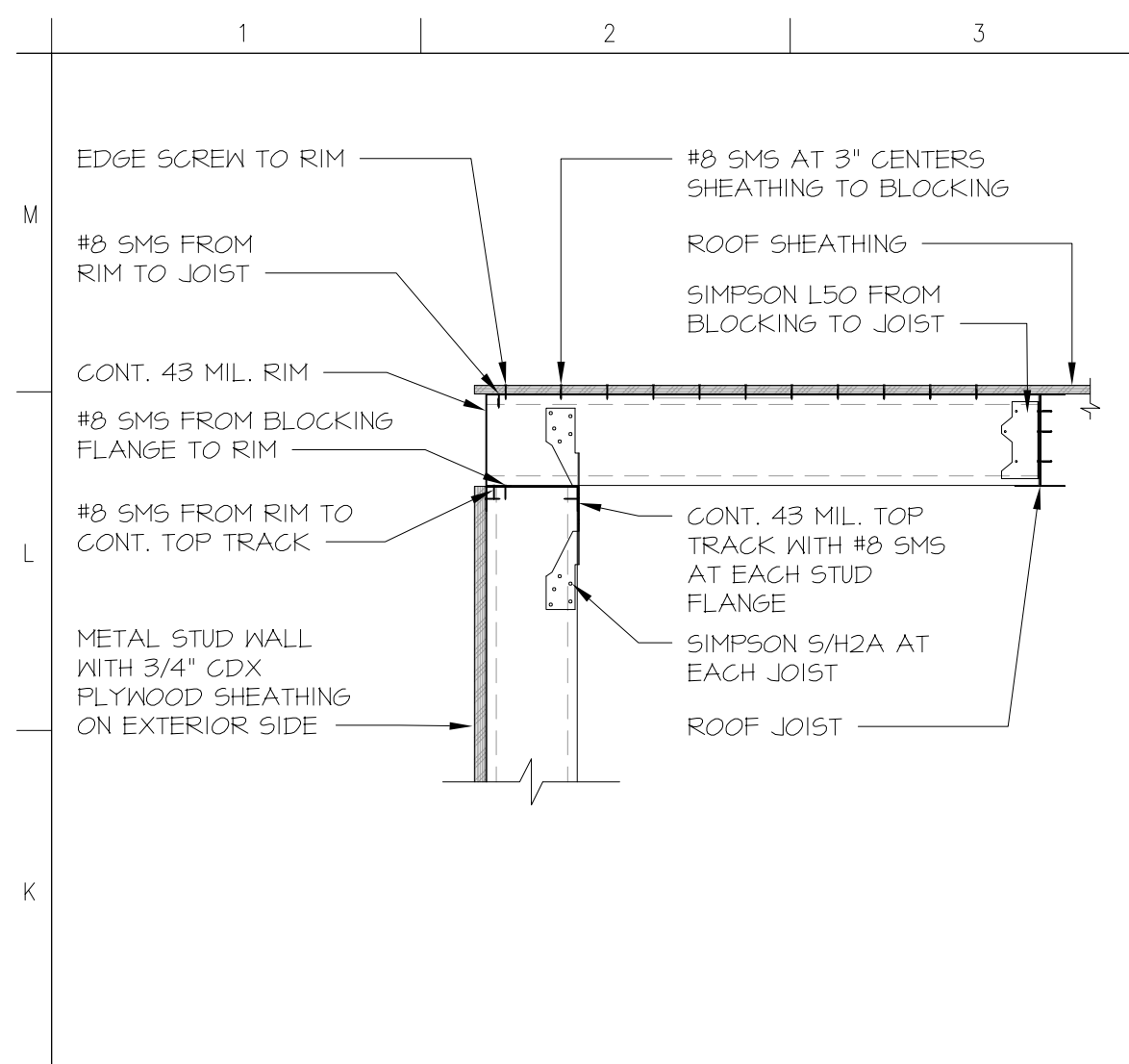
Fresno County Environmental Compliance Center Phase 2: Office / Storage Building
Project Address: 310 S. West Avenue, Fresno CA 93706
APN: 458-060-72
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File Path: G:\Capital \ Projects \ Building Numbers \ American Ave Landfill \ T90203 Environmental Compliance Center \ 00 2018 ECC

Sheet Content:
Foundation Plan & Details

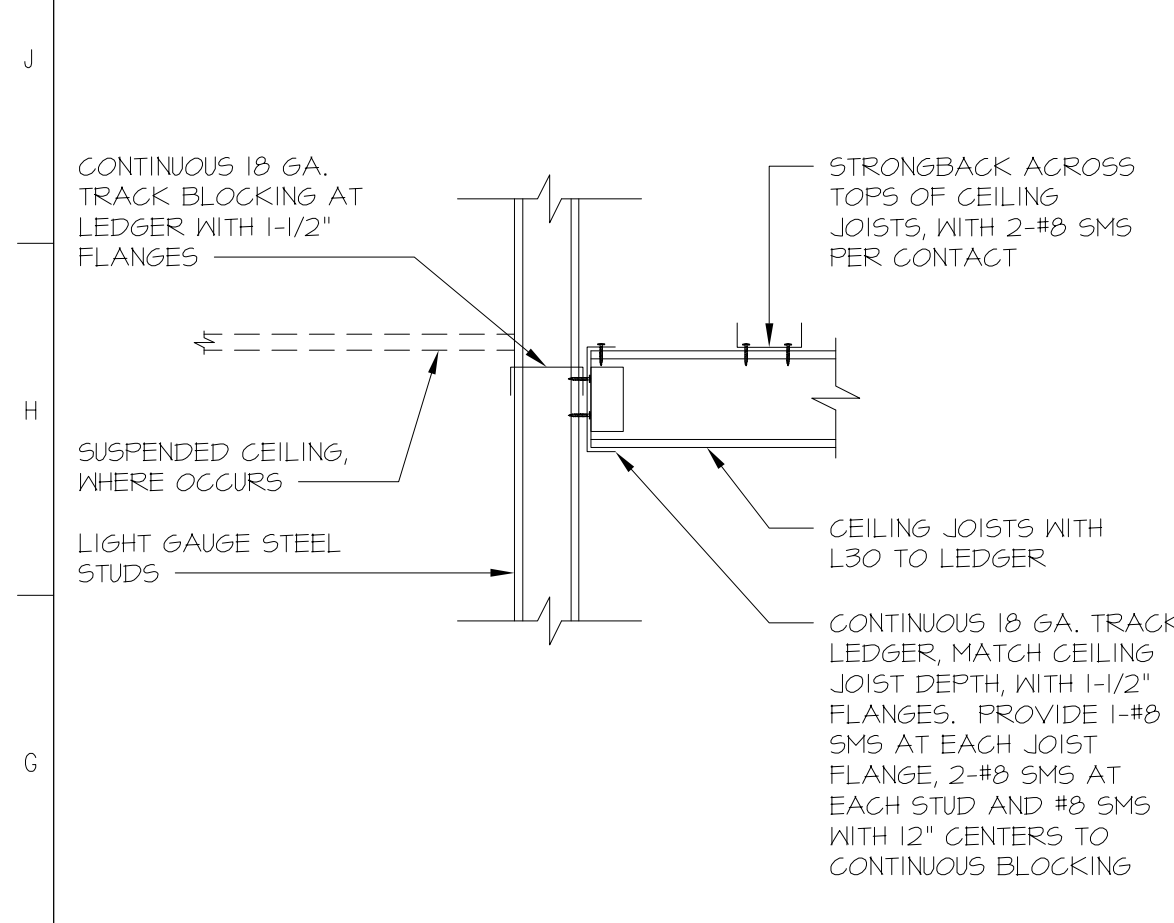
Fresno County Department of Public Works and Planning Capital Projects
2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.
S2.1

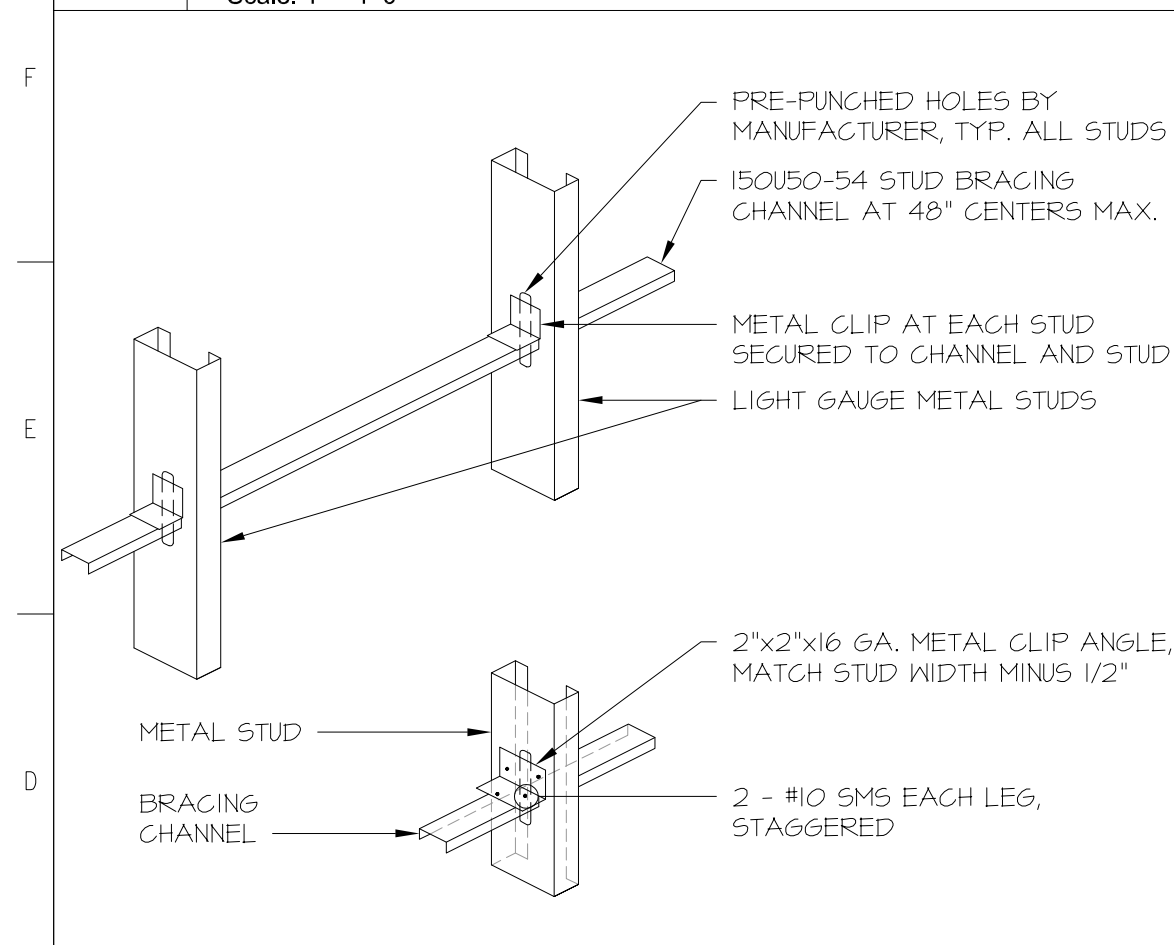
Bid Addendum 2 5-21-2021
Plan Review Corrections 5-21-2021



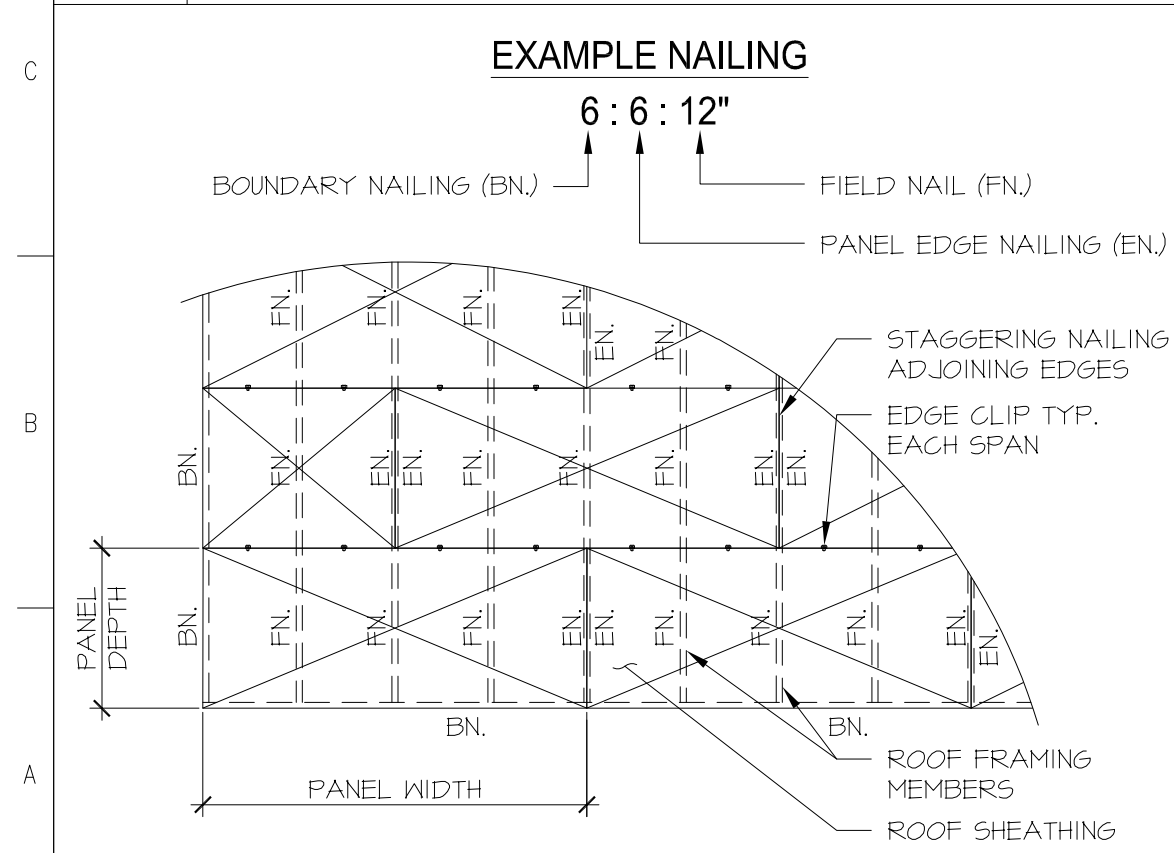
J1 Joist to Wall
Scale: 1" = 1'-0"



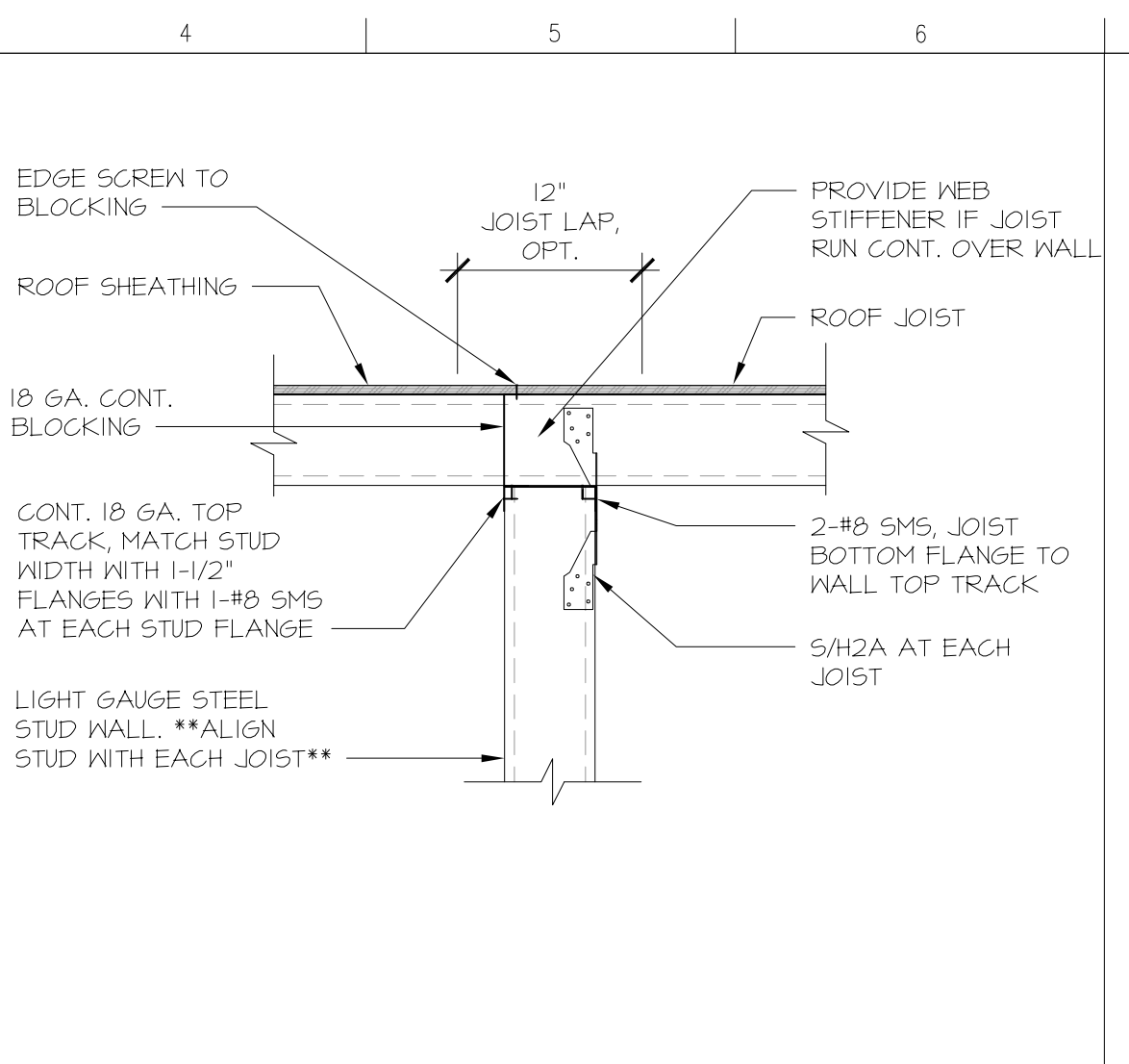
F1 Ceiling Joist at Stud Wall
Scale: 1" = 1'-0"



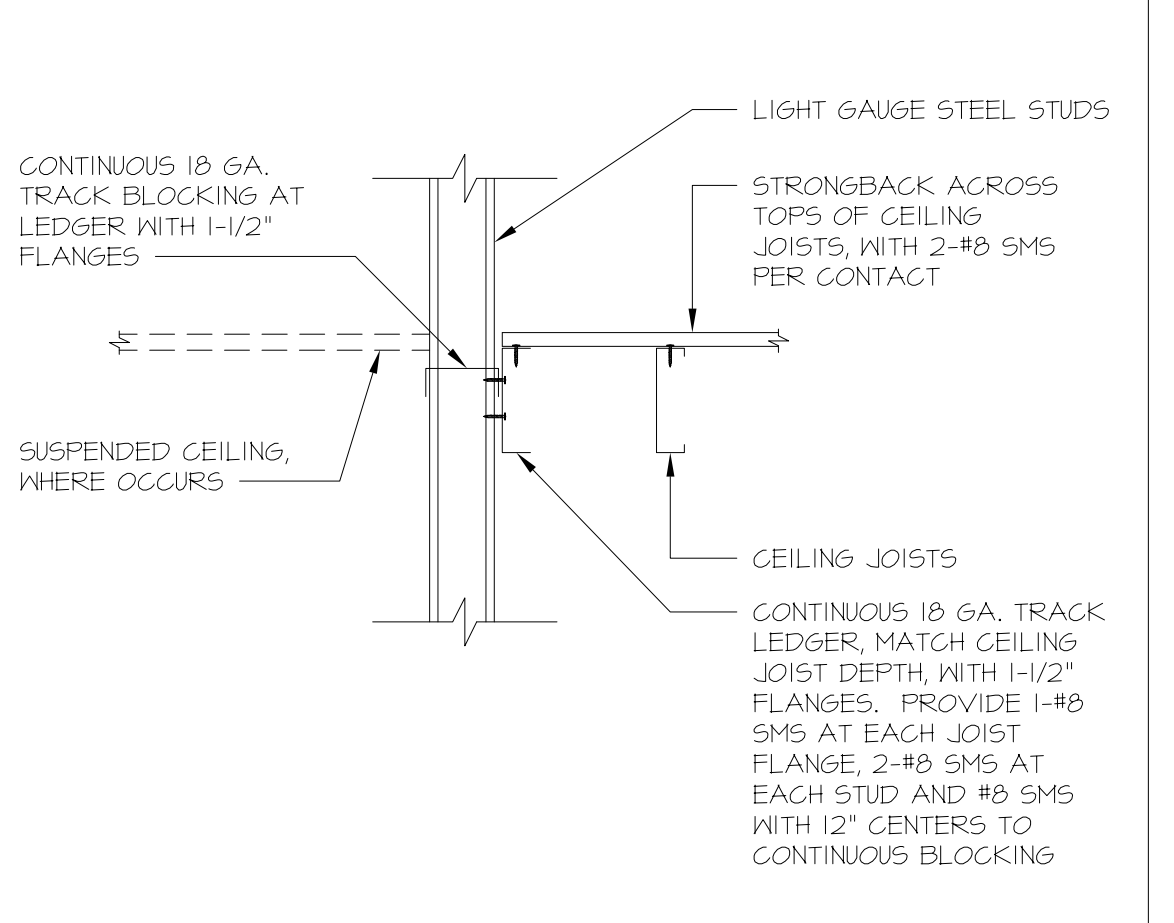
C1 Metal Stud Wall Bracing
Scale: NTS



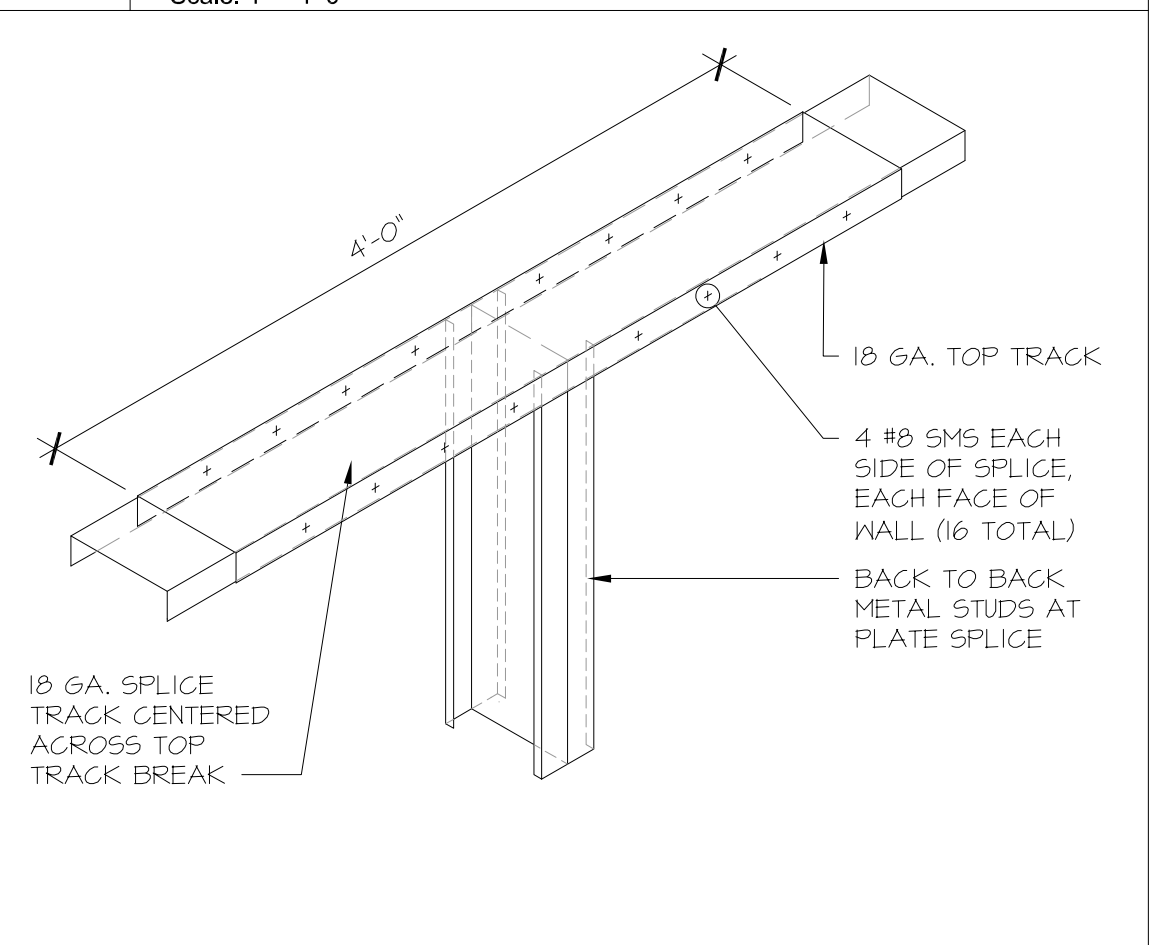
A1 Roof Diaphragm
Scale: NTS



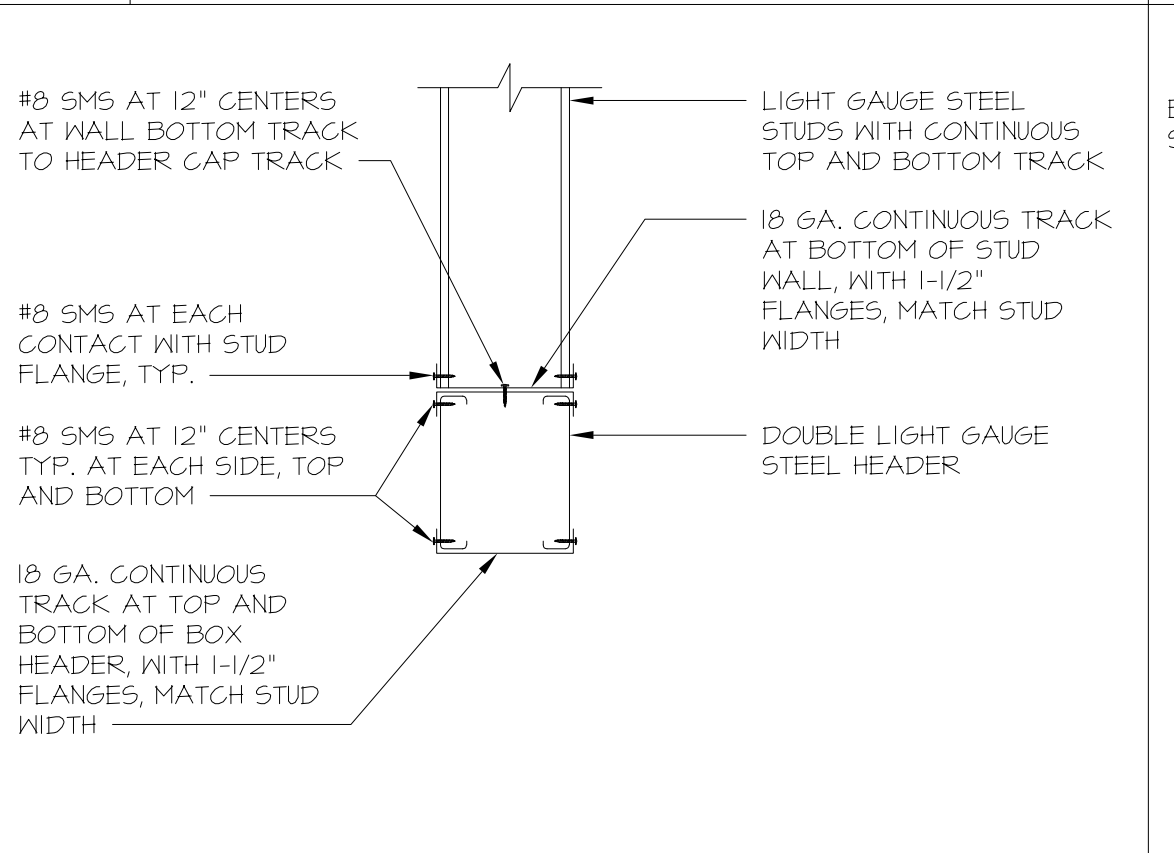
J4 Joist at Stud Wall
Scale: 1" = 1'-0"



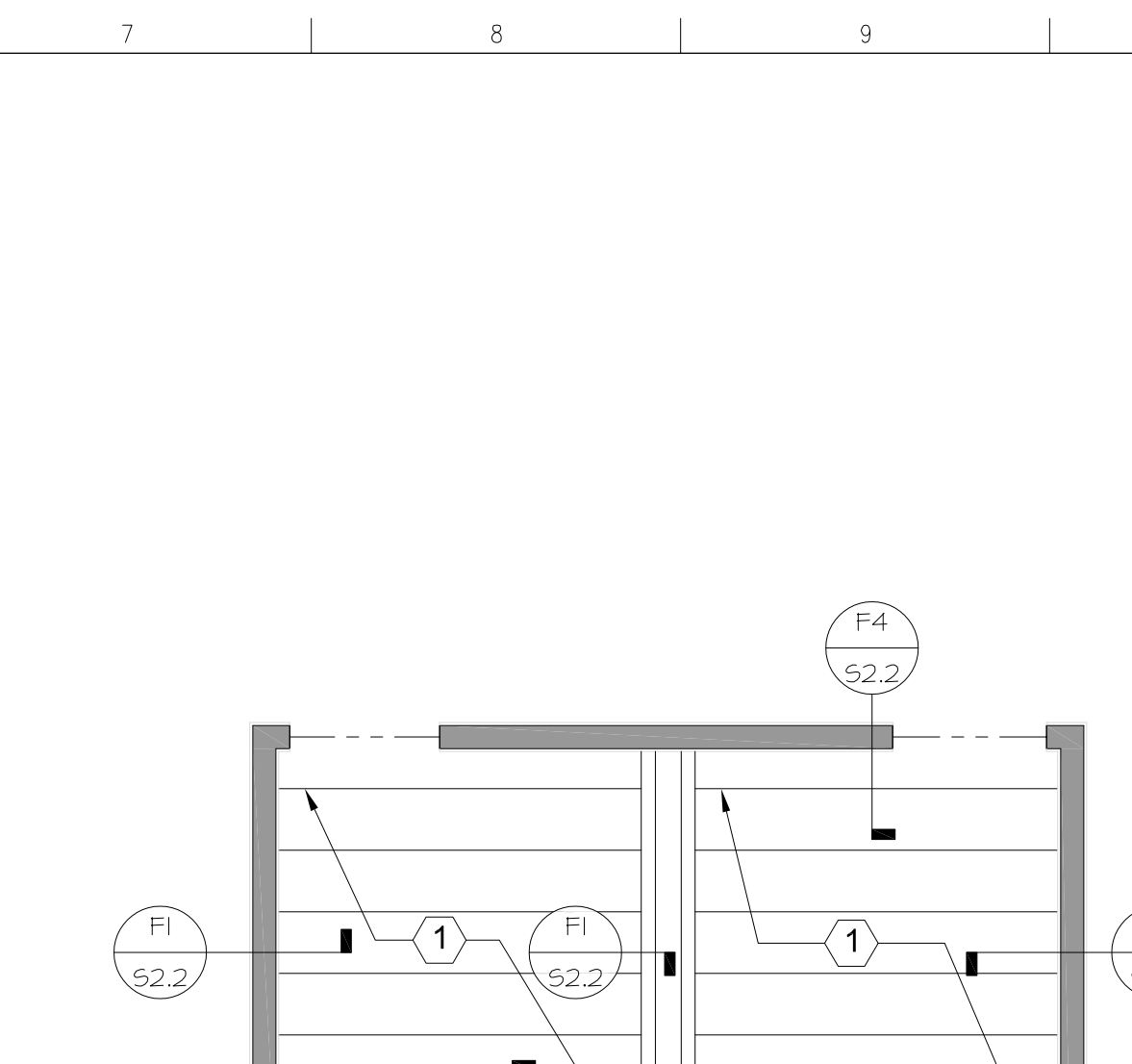
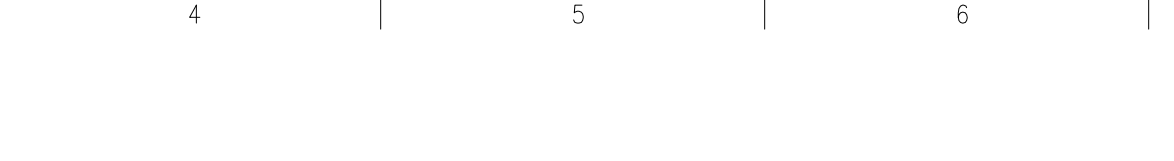
F4 Ceiling Joist at Stud Wall
Scale: 1" = 1'-0"



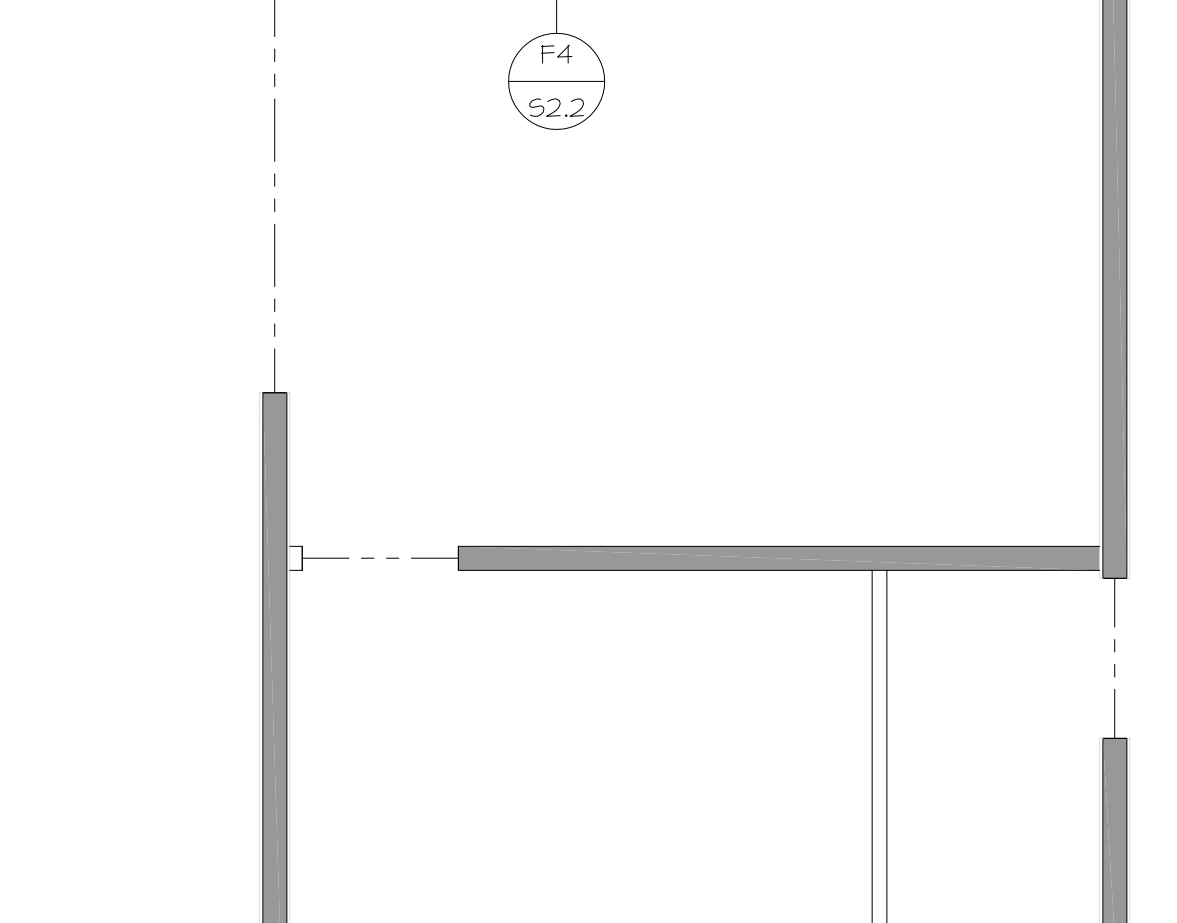
C4 Typical Top Track Splice
Scale: NTS



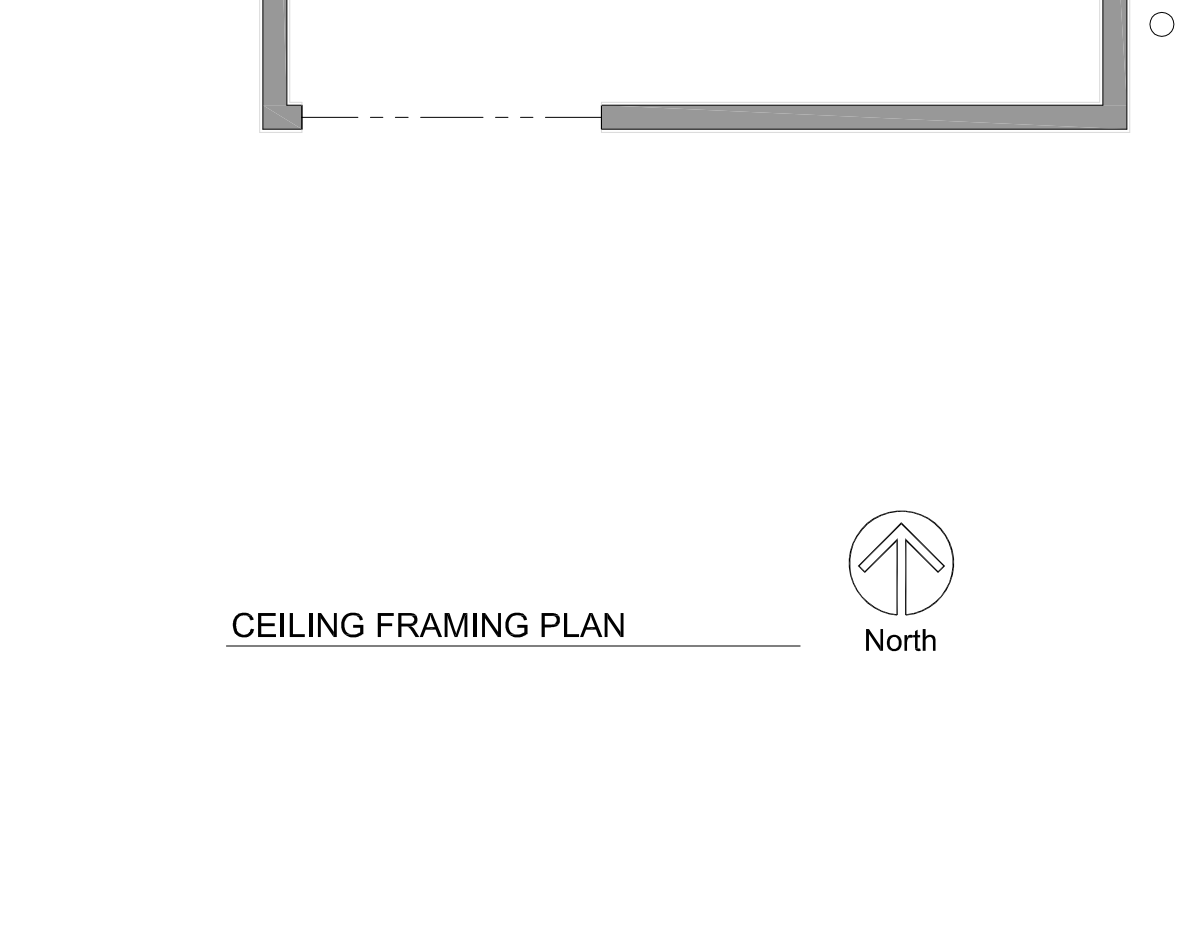
A4 Typical Steel Box Header
Scale: NTS



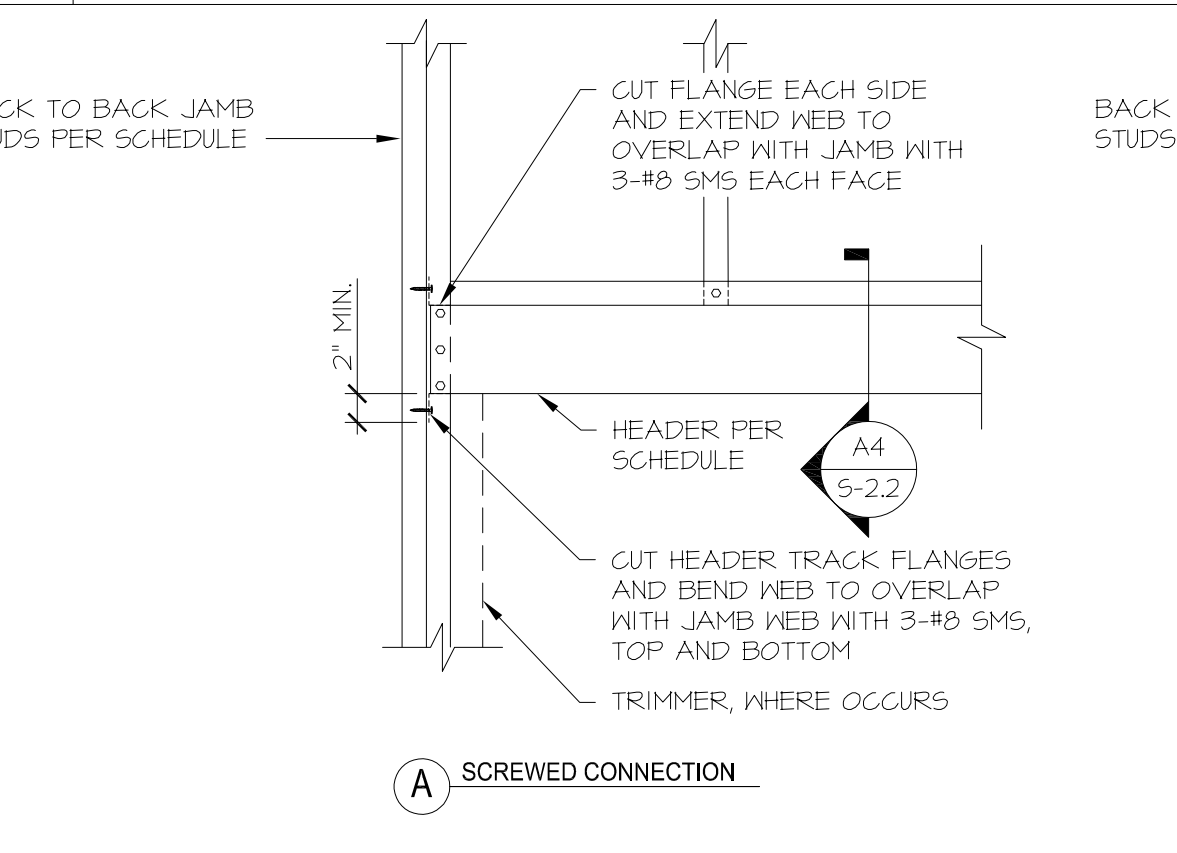
F4 Ceiling Joist at Stud Wall
Scale: 1" = 1'-0"



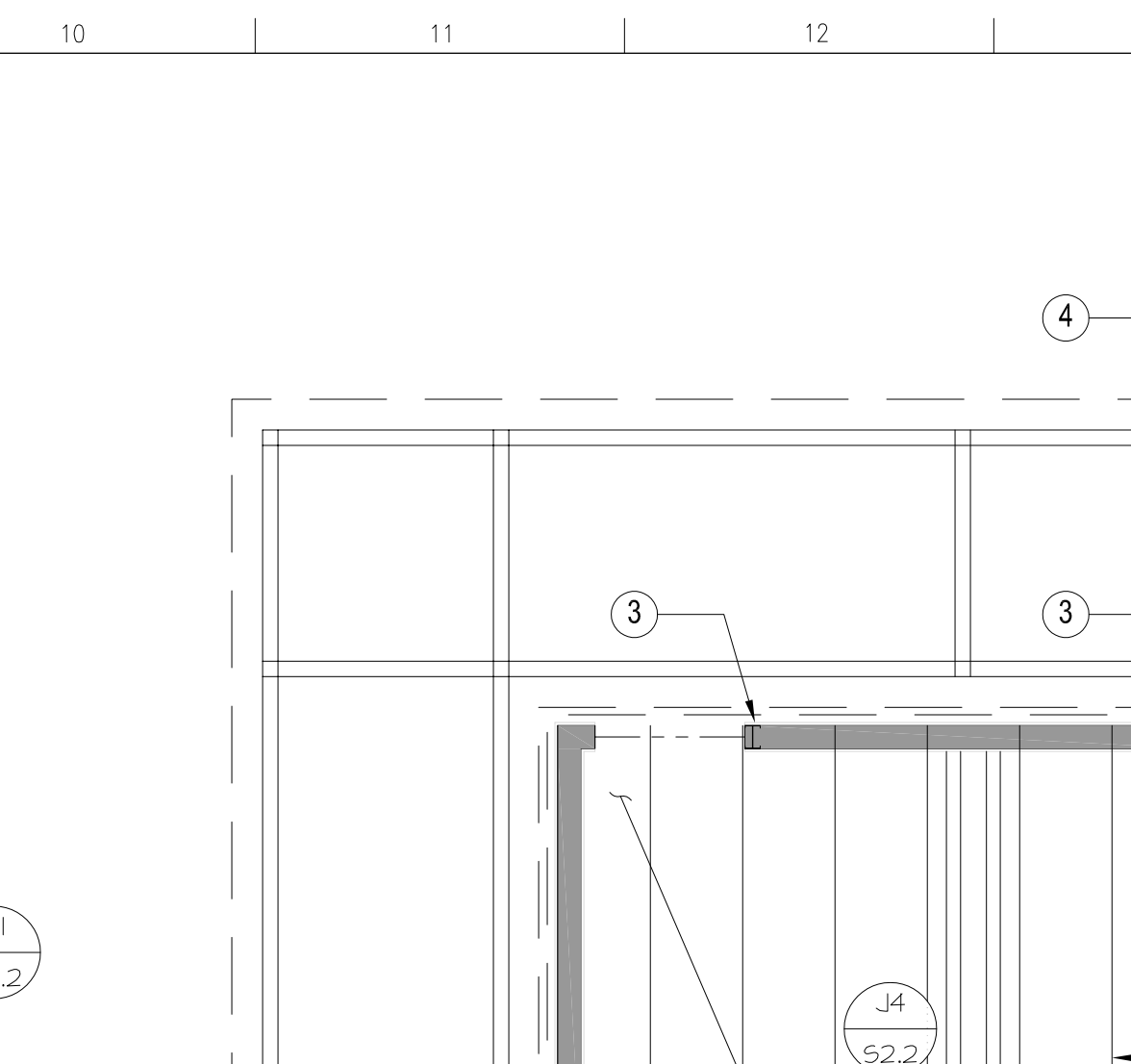
F4 Ceiling Joist at Stud Wall
Scale: 1" = 1'-0"



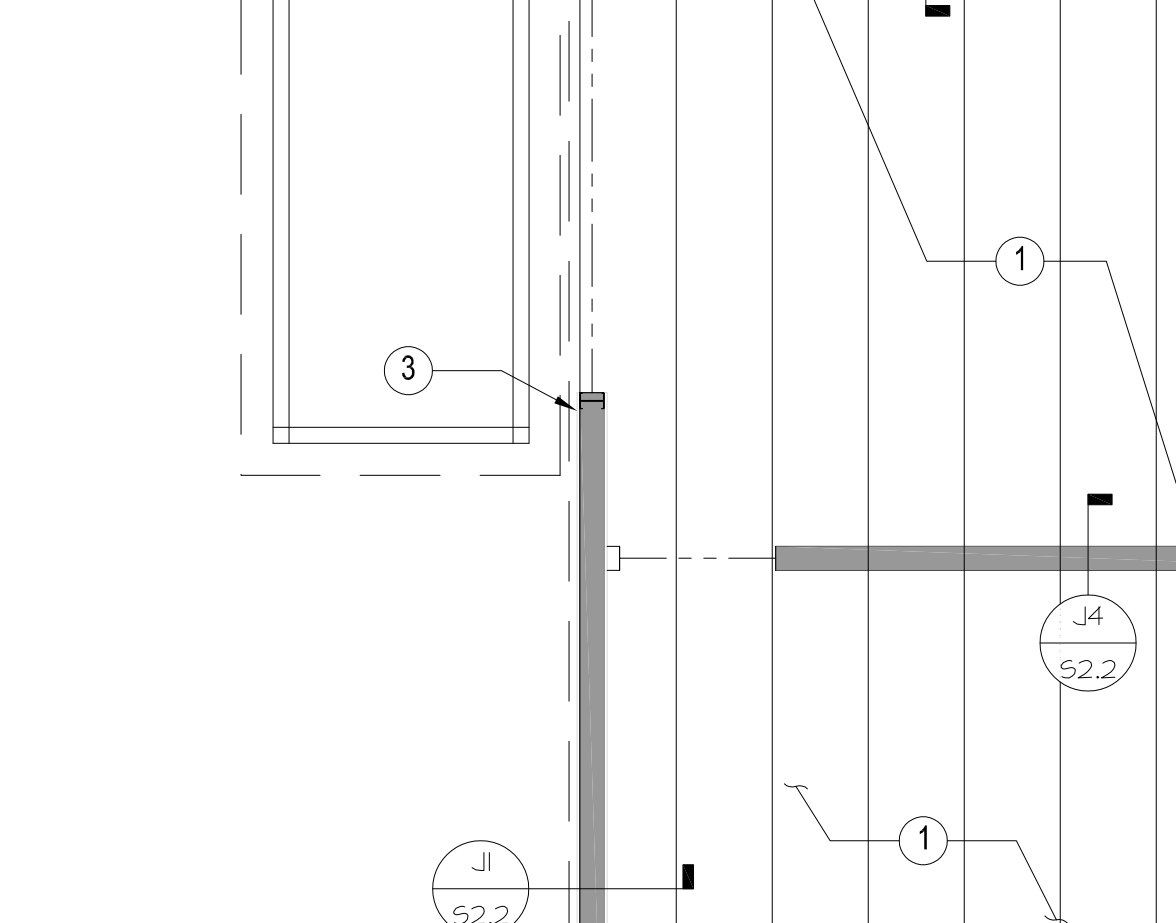
C7 Framing Plans
Scale: 1/4" = 1'-0"



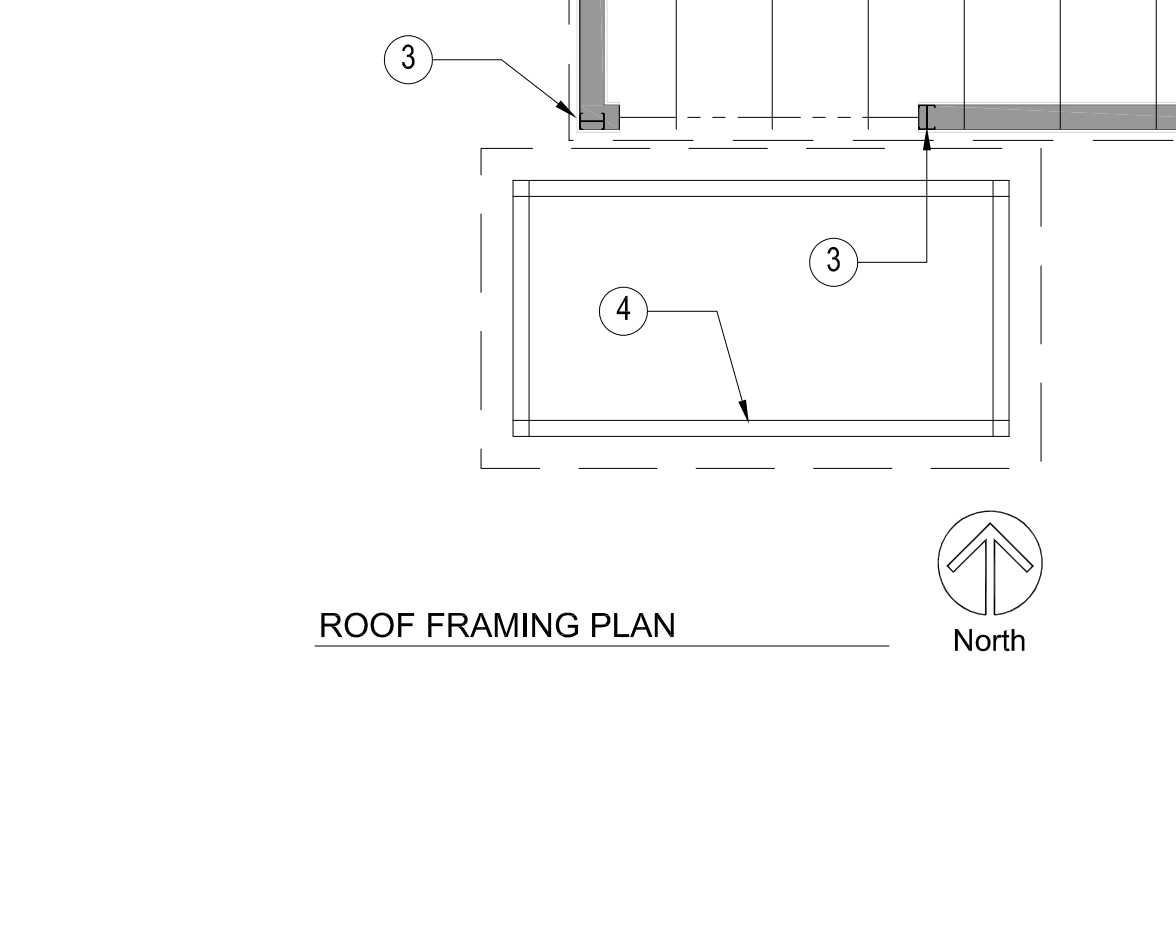
A7 Typical Header Connection
Scale: NTS



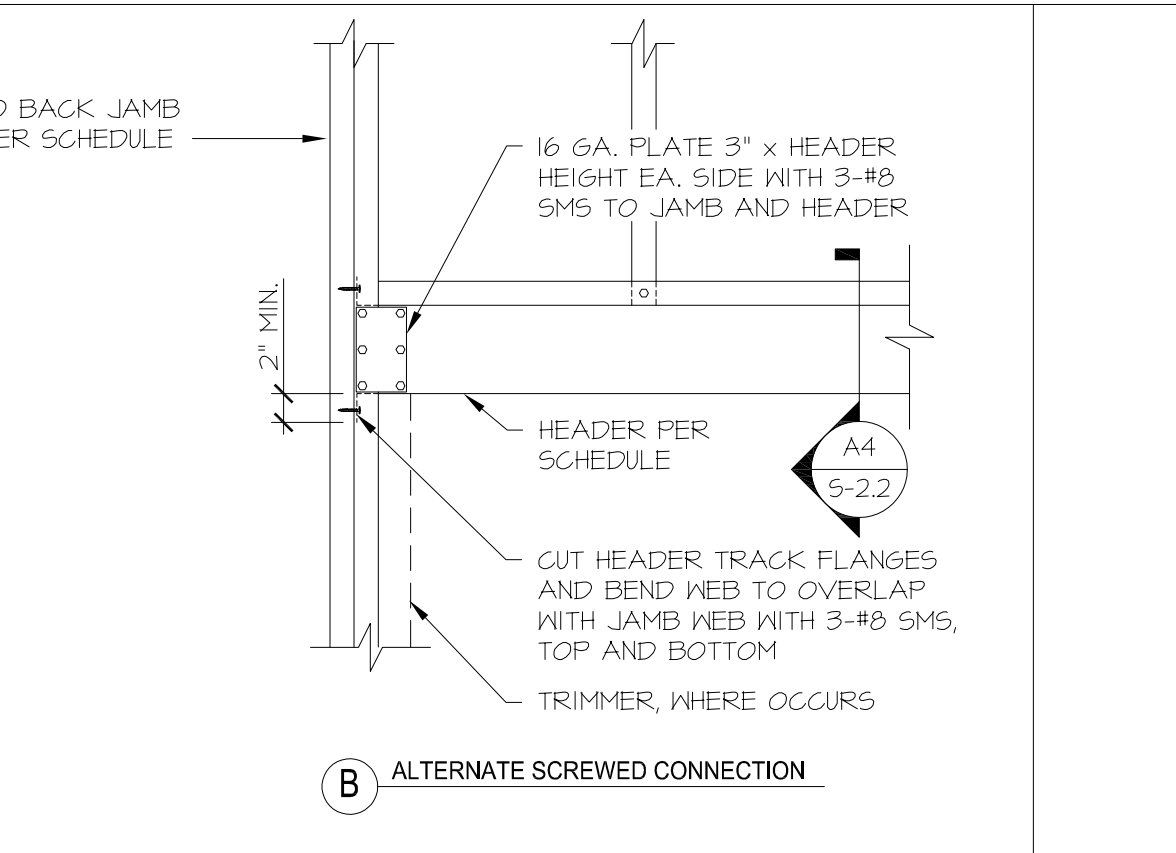
F4 Ceiling Joist at Stud Wall
Scale: 1" = 1'-0"



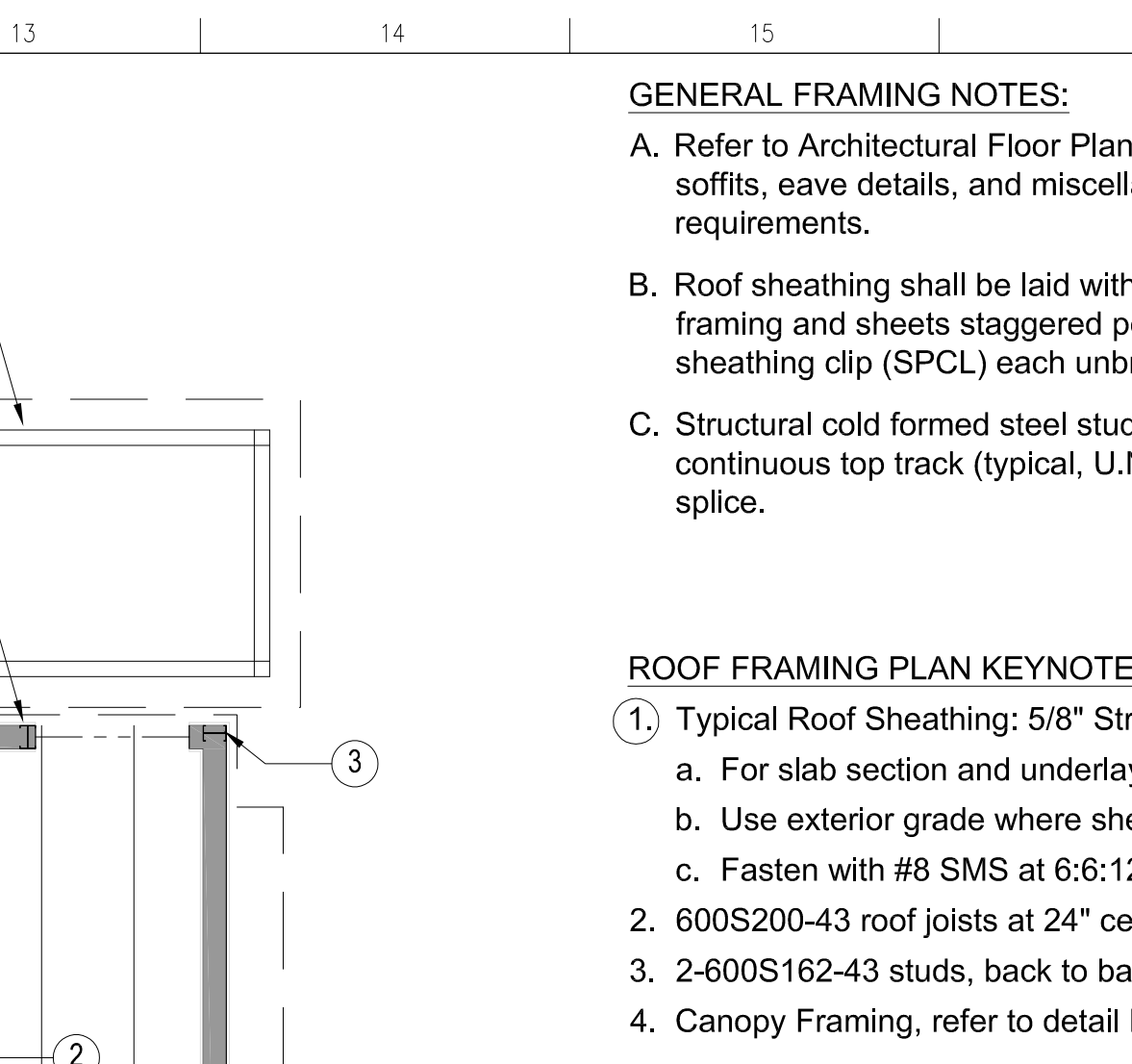
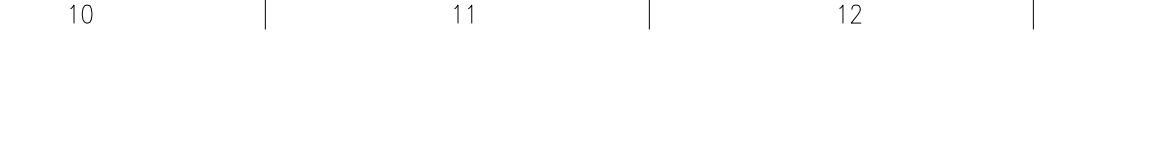
F4 Ceiling Joist at Stud Wall
Scale: 1" = 1'-0"



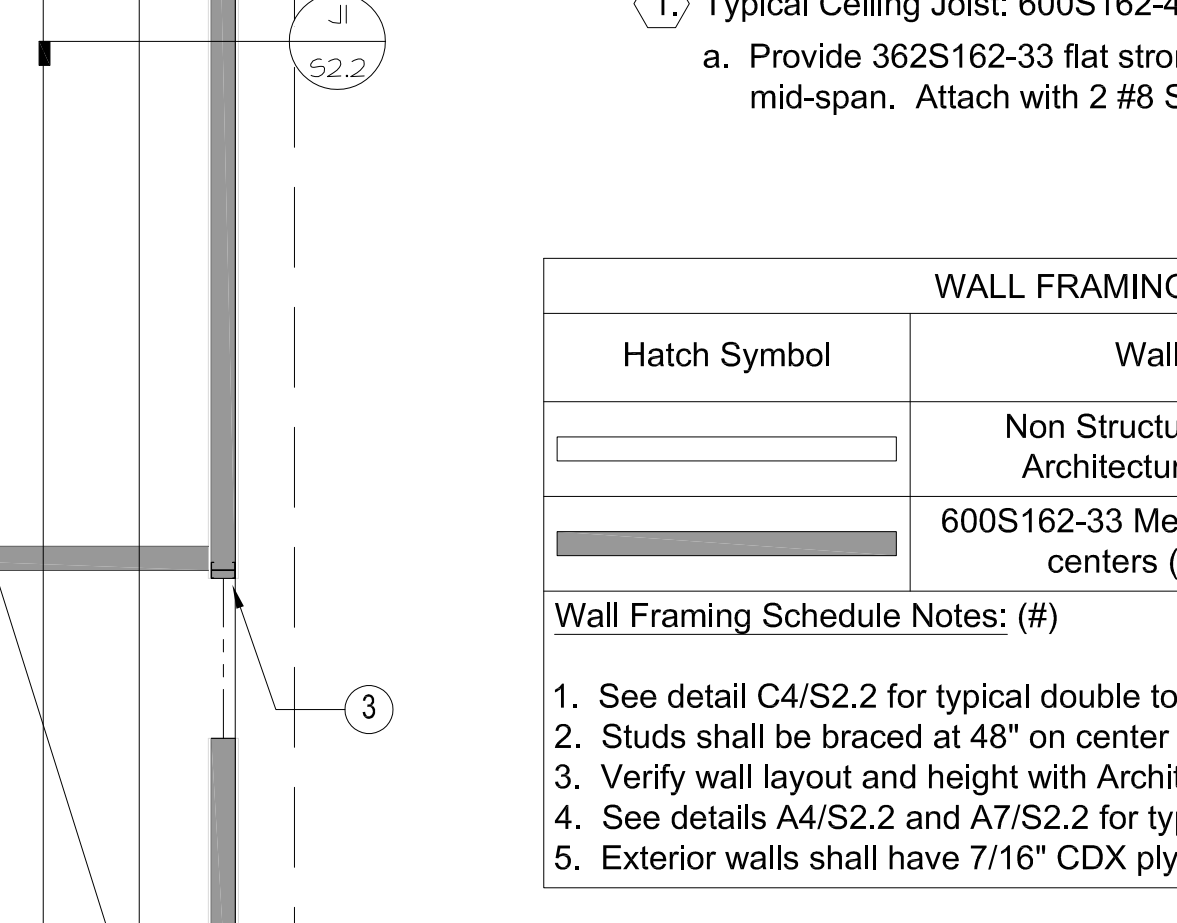
C7 Framing Plans
Scale: 1/4" = 1'-0"



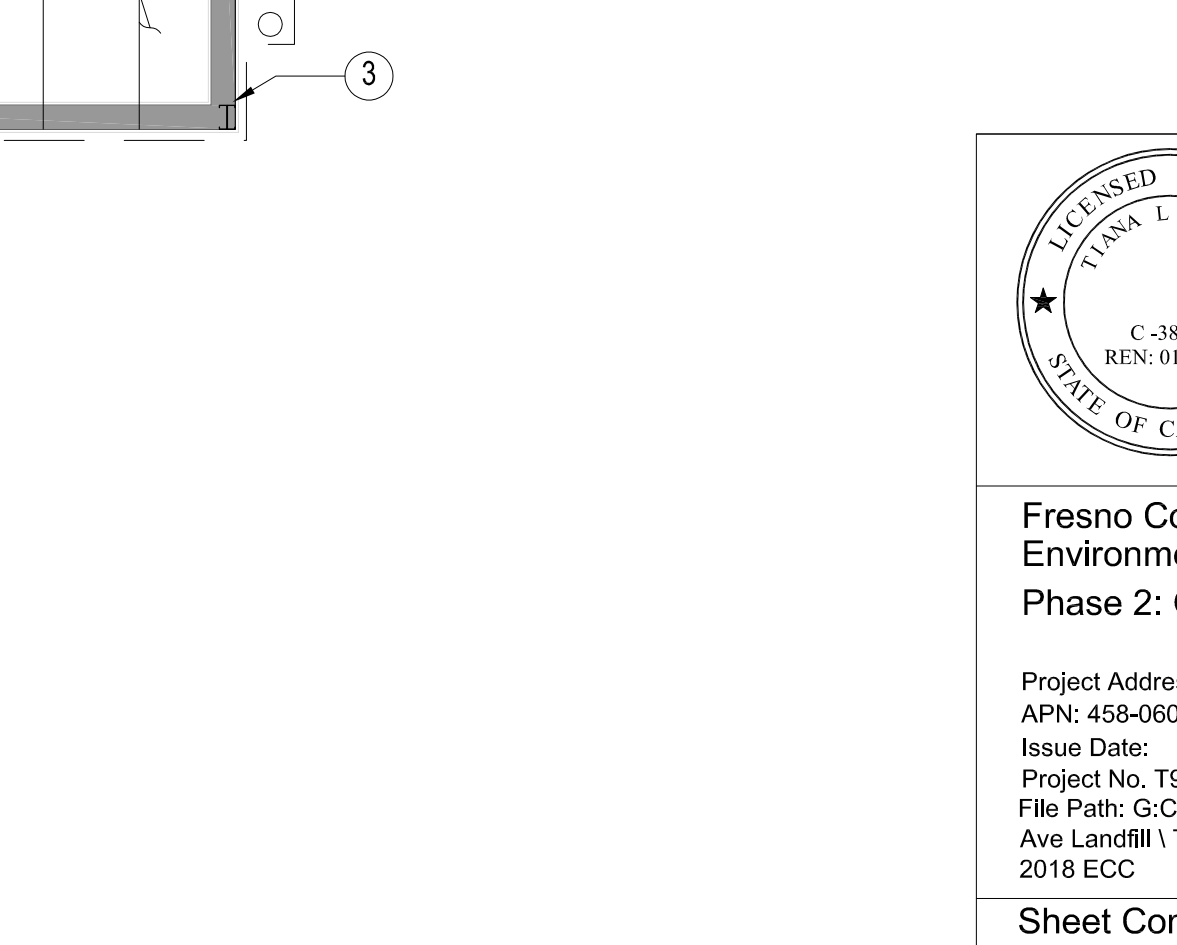
A7 Typical Header Connection
Scale: NTS



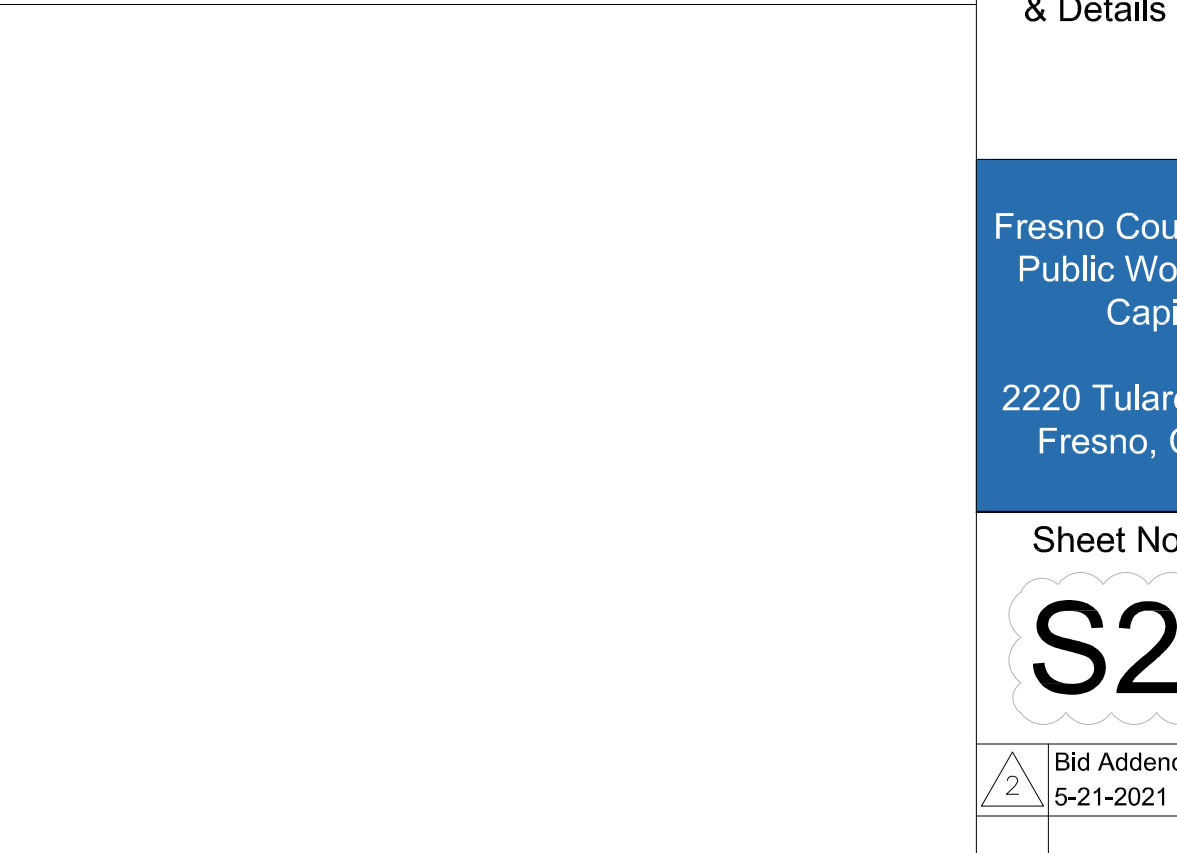
F4 Ceiling Joist at Stud Wall
Scale: 1" = 1'-0"



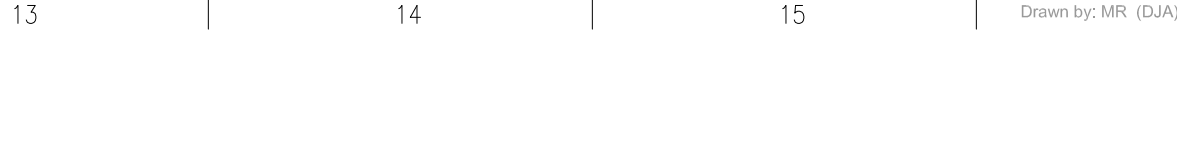
F4 Ceiling Joist at Stud Wall
Scale: 1" = 1'-0"



C7 Framing Plans
Scale: 1/4" = 1'-0"



A7 Typical Header Connection
Scale: NTS



GENERAL FRAMING NOTES:

- Refer to Architectural Floor Plans for interior non-bearing walls, soffits, eave details, and miscellaneous non-structural details and requirements.
- Roof sheathing shall be laid with face grain perpendicular to framing and sheets staggered per detail A1/S2.2. Provide panel sheathing clip (SPCL) each unbraced edge span.
- Structural cold formed steel stud walls shall be framed with continuous top track (typical, U.N.O.). See detail C4/S2.2 for splice.

ROOF FRAMING PLAN KEYNOTES: (#)

- Typical Roof Sheathing: 5/8" Structural I Sheathing.
 - For slab section and underlayment, see detail C1/S2.1.
 - Use exterior grade where sheathing is exposed to weather.
 - Fasten with #8 SMS at 6:6:12" centers.
- 600S200-43 roof joists at 24" centers.
- 2-600S162-43 studs, back to back, at end of braced wall.
- Canopy Framing, refer to detail K1/ S2.3.

CEILING FRAMING PLAN KEYNOTES: (#)

- Typical Ceiling Joist: 600S162-43 at 16" centers.
 - Provide 362S162-33 flat strong-back across tops of joists at mid-span. Attach with 2 #8 SMS per joist flange.

WALL FRAMING LEGEND		
Hatch Symbol	Wall Type	Header (4), U.N.O
	Non Structural Wall. See Architectural Drawings	N/A
	600S162-33 Metal Studs with 16" centers (1)(2)(3)(5)	600S162-43 Box Beam

Wall Framing Schedule Notes: (#)

- See detail C4/S2.2 for typical double top plate splice
- Studs shall be braced at 48" on center maximum. Refer to detail C1/S2.2
- Verify wall layout and height with Architectural Drawings
- See details A4/S2.2 and A7/S2.2 for typical box header construction
- Exterior walls shall have 7/16" CDX plywood sheathing.



Fresno County Environmental Compliance Center Phase 2: Office / Storage Building

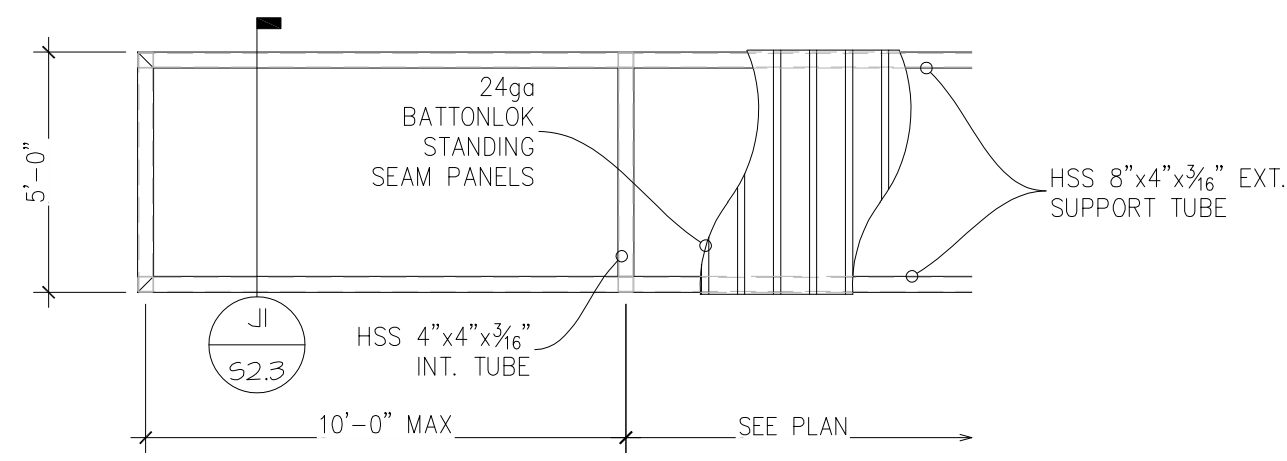
Project Address: 310 S. West Avenue, Fresno CA 93706
 APN: 458-060-72
 Issue Date:
 Project No. T90203
 File Path: G:\Capital \ Projects \ Building Numbers \ American Ave Landfill \ T90203 Environmental Compliance Center \ 00 2018 ECC

Sheet Content:
 Roof Framing Plan,
 Ceiling Framing Plan
 & Details

Fresno County Department of Public Works and Planning Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

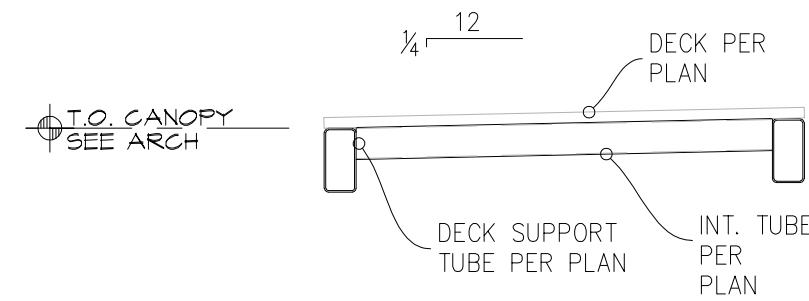
Sheet No.
S2.2

	Bid Addendum 2 5-21-2021		Plan Review Corrections 5-21-2021
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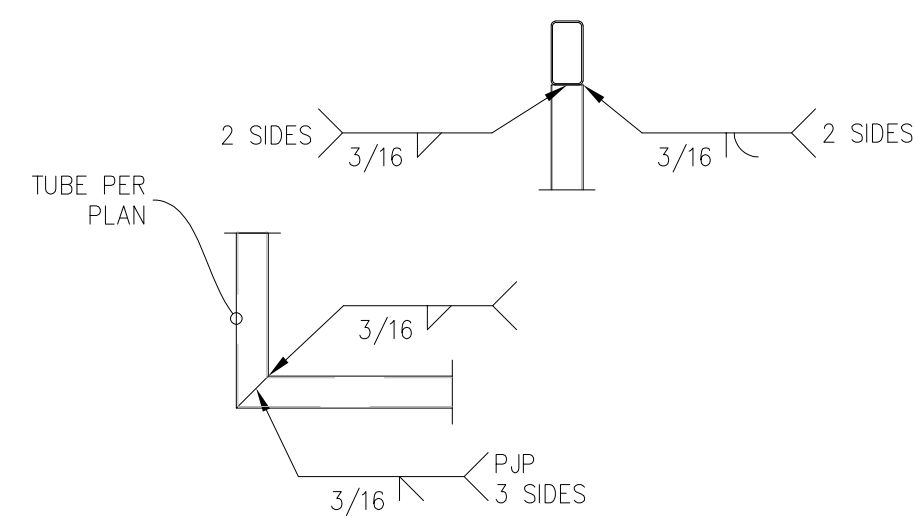
K1 Canopy Framing

Scale: 1/4" = 1'-0"



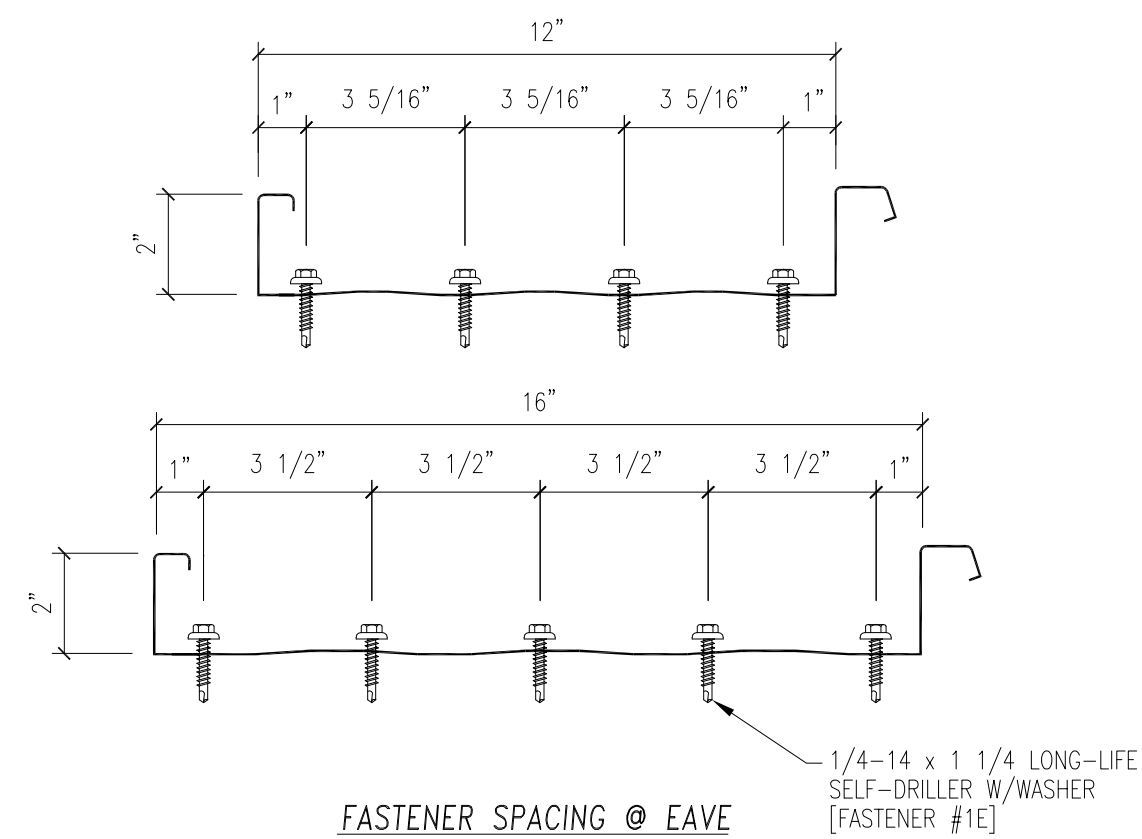
J1 Canopy Section

Scale: 1/2" = 1'-0"



G1 Canopy Frame Connection Detail

Scale: 1/4" = 1'-0"



D1 Roof Panel Attachment Detail

Scale: 1/4" = 1'-0"



ARCHITECT:
Tiana L. Perez, Architect
California Licensed Architect No. C-38000
Ren. 01-31-23
Fresno County Department of
Public Works & Planning
Development Services and
Capital Projects Division
2220 Tulare Street, Eighth Floor
Fresno, California 93721
Office: (559) 600-4536
E-mail: tperez@fresnocountyca.gov

**Fresno County
Environmental Compliance Center
Phase 2: Office / Storage Building**

Project Address: 310 S. West Avenue, Fresno CA 93706
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Ave Landfill \ T90203 Environmental Compliance Center \ 00
2018 ECC

Sheet Content:
Canopy Details

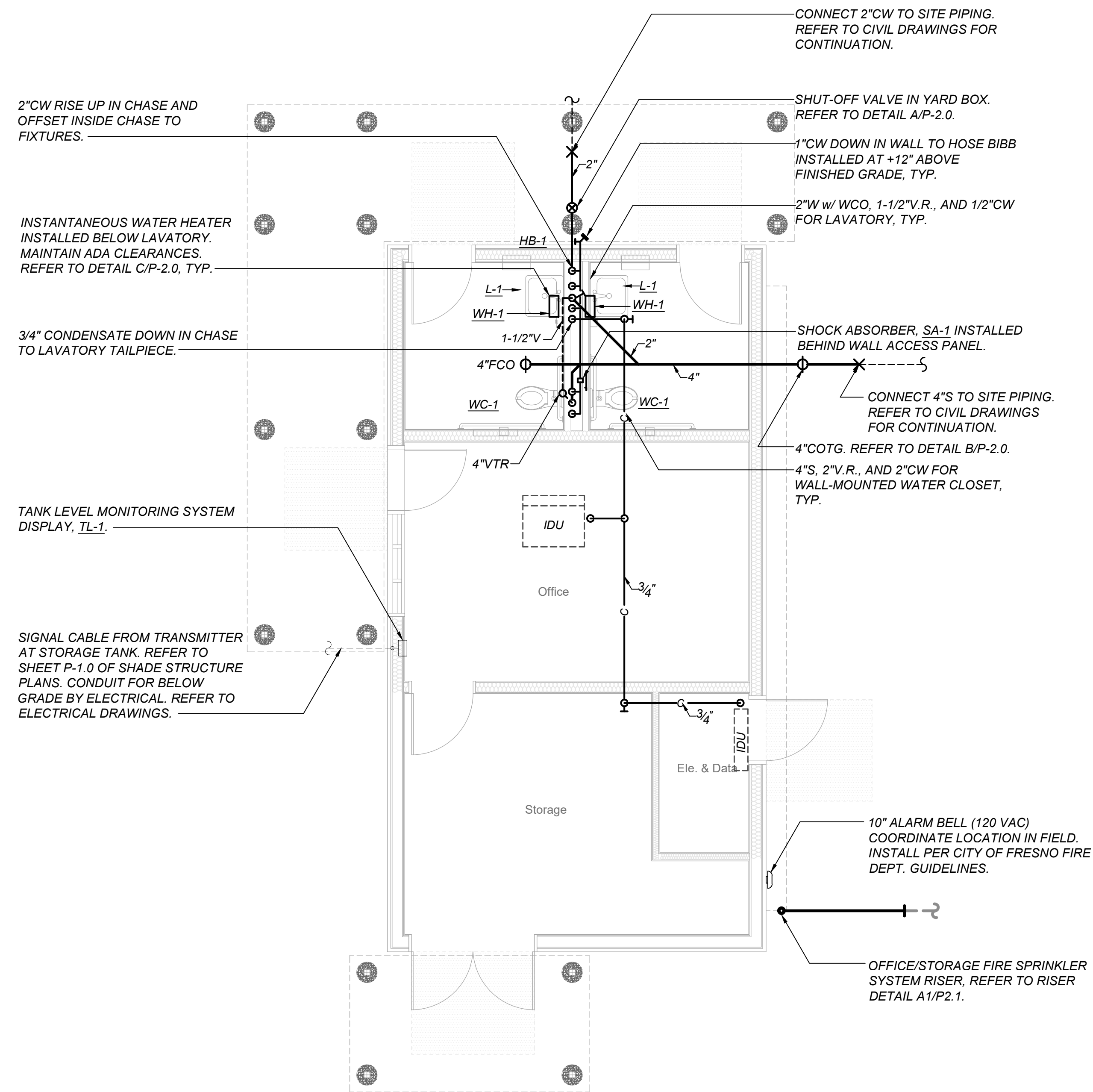


Sheet No.
S2.3

2	Bid Addendum 2 5-21-2021	A	Plan Review Corrections 5-21-2021
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GENERAL PLUMBING NOTES:

- THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE BUILDING IN ACCORDANCE WITH THE 2019 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 ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- 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
 2019 CALIFORNIA BUILDING CODE, PART 2, TITLE 24 CCR
 2019 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24 CCR
 2019 CALIFORNIA MECHANICAL CODE, PART 4, TITLE 24 CCR
 2019 CALIFORNIA PLUMBING CODE, PART 5, TITLE 24 CCR
 2019 CALIFORNIA FIRE CODE, PART 9, TITLE 24 CCR
 NFPA 101 2016 EDITION
 OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT
- 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.
- PENETRATIONS OF PIPES, CONDUITS, ETC. IN WALLS OR FLOORS REQUIRING PROTECTED OPENINGS SHALL BE FIRE-STOPPED INCLUDING EXISTING PIPE AND CONDUIT THROUGH NEW WALLS AND FLOORS. SEE SPECS. FIRE STOP MATERIAL SHALL BE A TESTED ASSEMBLY. PENETRATIONS THROUGH FIRE-RATED FLOORS AND WALLS SHALL BE PROTECTED IN ACCORDANCE WITH CBC SECTION 714 AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE PROVIDED FOR REVIEW BY INSPECTION AUTHORITIES. SUBSTITUTIONS OF OR REVISIONS OR ADDITIONS TO APPROVED SYSTEMS SHALL BE SUBMITTED TO THE INSPECTOR OF RECORD AND THE OSHPD FIRE MARSHAL FOR FIELD REVIEW AND APPROVAL.
- ALL PIPING AND CONDUIT SHALL BE SUPPORTED PER MASON WEST, INC. "SEISMIC RESTRAINT COMPONENTS FOR SUSPENDED DISTRIBUTION SYSTEMS", 1ST EDITION, 2019. OSHPD PRE-APPROVED ANCHORAGE OPM-0043-13, OR OTHER OSHPD PRE-APPROVED SYSTEM.
- 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.
- FIELD VERIFY THE EXACT LOCATION, DEPTH AND SIZE OF ALL NEW POINTS OF CONNECTION TO EXISTING UTILITIES PRIOR TO COMMENCING NEW UTILITY WORK.
- INSTALLATION OF NEW UTILITIES FROM EXISTING MAINS IN THE STREET SHALL BE DONE IN STRICT ACCORDANCE WITH GOVERNING AUTHORITY REQUIREMENTS.
- INSTALLATION, TYPE AND MANUFACTURER'S MODELS OF DOMESTIC WATER METERS, BACKFLOW PREVENTERS, FIRE HYDRANTS, DETECTOR CHECK VALVES, MANHOLES, DRAIN INLETS/OUTLETS AND OTHER APPURTENANCE OF SITE UTILITY SYSTEMS SHALL BE DONE IN STRICT ACCORDANCE WITH GOVERNING AUTHORITY REQUIREMENTS.
- BACKFLOW PREVENTER SHALL BE INSTALLED AT THE MINIMUM HEIGHT ABOVE FINISH GRADE AS ALLOWED BY GOVERNING AUTHORITY.
- CONTRACTOR SHALL EXCAVATE AND BACKFILL THE GAS SERVICE TRENCH FOR THE LOCAL GAS UTILITY. THE LOCAL GAS UTILITY SHALL INSTALL THEIR GAS SERVICE LINE TO THE GAS METER. TRENCHING SHALL BE IN ACCORDANCE WITH UTILITY STANDARDS. ALL CHARGES AND FEES INCURRED BY THE UTILITY FOR NEW GAS SERVICE SHALL BE PAID BY THE CONTRACTOR.
- 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.

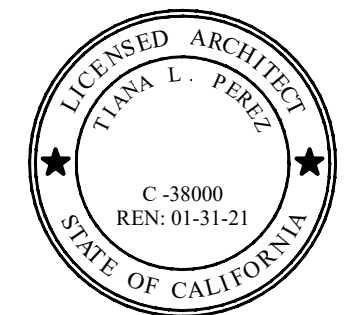


PLUMBING LEGEND		
SYMBOL	ITEM	ABBR.
---	SOIL or WASTE	S or W
---	VENT	V
---	VENT RISER	VR
---	VENT THRU ROOF	VTR
---	DOMESTIC COLD WATER	CW
---	DOMESTIC HOT WATER	HW
---	DOMESTIC HOT WATER RETURN	HWR
---	LOW PRESSURE NATURAL GAS	G
---	CONDENSATE DRAIN	CD
---	EXISTING PIPING	
⊕	FLOOR CLEANOUT	FCO
⊕	CLEANOUT TO GRADE	COTG
⊕	WALL CLEANOUT	WCO
○	PIPING TURN UP	
○	PIPING TURN DOWN	
×	POINT OF CONNECTION	POC
(N)	NEW	
(E)	EXISTING	
	ABOVE CEILING	ABV CLG
	BELOW FLOOR	BEL FLR
	BELOW GRADE	BEL GR
	TYPICAL	TYP
	CONTINUATION	CONT
⊗	SHUT-OFF VALVE IN BOX	SOV
⊗	SHUT-OFF VALVE	SOV
⊗	CHECK VALVE	
⊗	PLUG VALVE	
---	FIRE PROTECTION LINE	
---	RAIN WATER LEADER	RWL
---	OVERFLOW DRAIN	OD
---	STORM DRAIN	SD
---	TEPID WATER	TW
////	DEMOLITION	DEMO



LAWRENCE ENGINEERING GROUP

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 California Licensed Architect No. C-38000
 Ren. 01-31-21
 Fresno County Department of
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 Development Services and
 Capital Projects Division
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 Office: (559) 600-4536
 E-mail: tperez@fresnocountyca.gov

Fresno County
 Environmental Compliance Center
 Phase 2: Office / Storage Building

Project Address: 310 S. West Avenue, Fresno CA 93706
 APN: 458-060-72
 Issue Date:
 Project No. T90203
 File Path: G:\Capital\Projects\Building Numbers\1 American Ave Landfill\T90203 Environmental Compliance Center\00 2018 ECC

Sheet Content:

OFFICE / STORAGE BUILDING
 PLUMBING PLAN



Sheet No.

P1.2

△	Bid Addendum 2 5-21-2021	△	Plan Review Corrections 5-21-2021
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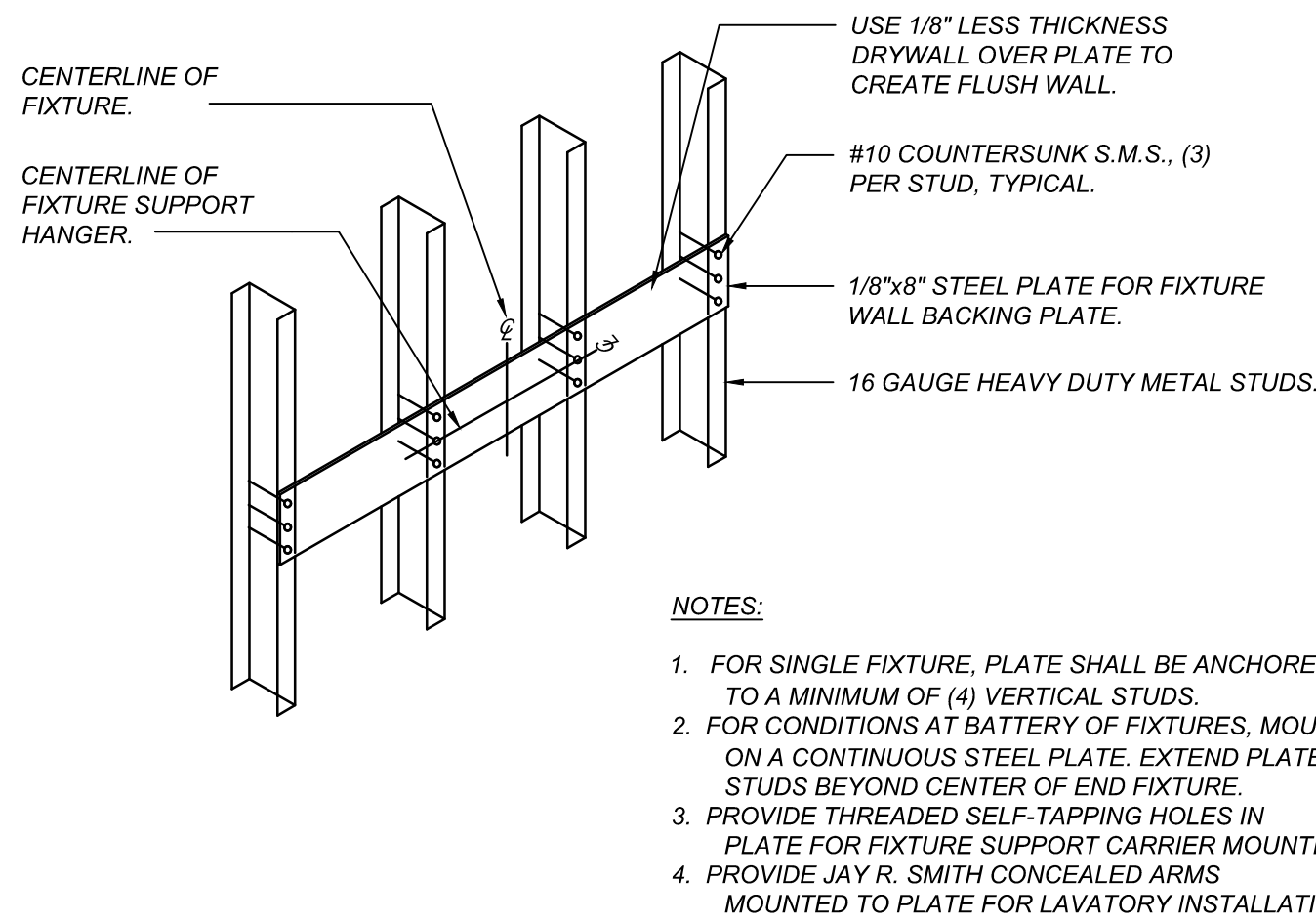
Drawn by: MR (DJA)

Plotted on: 05.21.2021

A1 OFFICE/STORAGE BUILDING PLUMBING PLAN

Scale: 1/4"=1'-0"

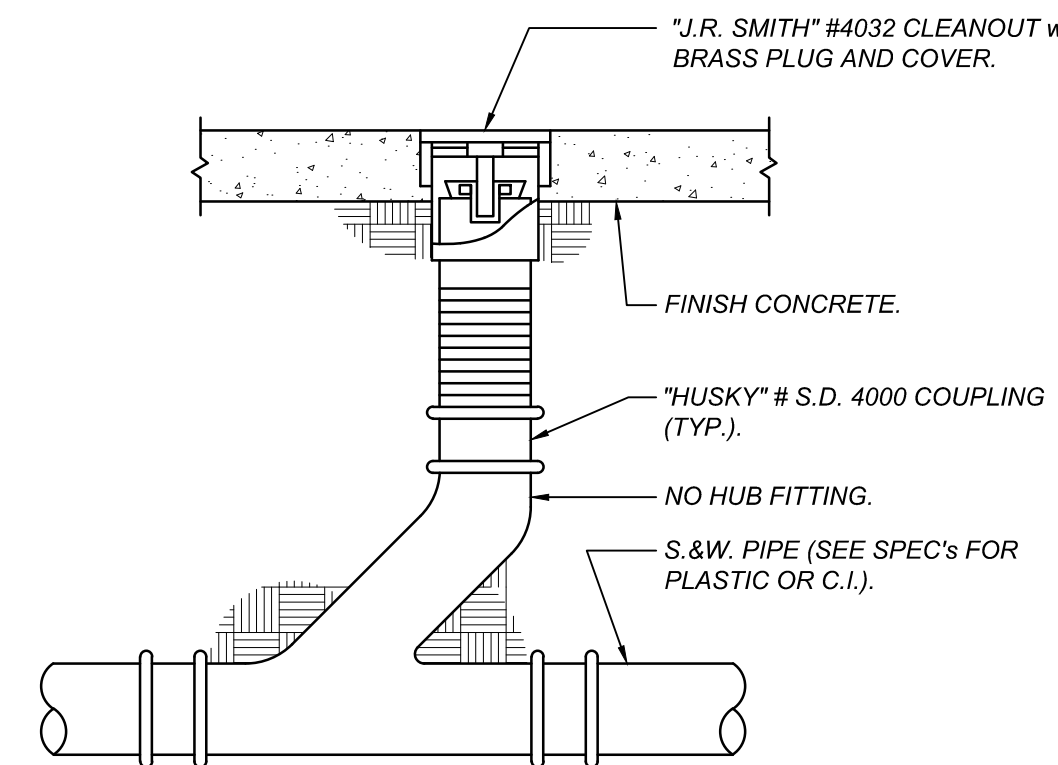
PLUMBING FIXTURE AND EQUIPMENT SCHEDULE						
MARK	FIXTURE	CONNECTION SIZES				DESCRIPTION
		S or W	V	CW	HW	
WC-1	WATER CLOSET	4"	2"	1"	-	KOHLER ELONGATED WALL HUNG "KINGSTON" #K-4325, (OR AMERICAN STANDARD OR ZURN EQUAL) 1.28 GPF, ZURN "AQUASENSE" #ZEMS6000AV-HET-IS SENSOR OPERATED, HARDWIRED 120V/1Ø ELECTRIC POWERED FLUSH VALVE WITH #P6000-HW6 HARD-WIRE POWER CONVERTER (UP TO 8 VALVES) & CONNECTING WIRE AS REQUIRED, OLSONITE #95CC/SS EXTRA HEAVY DUTY OPEN-FRONT SEAT AND JAY R. SMITH #410 SUPPORT CARRIER.
L-1	LAVATORY	2"	1-1/2"	1/2"	1/2"	KOHLER WALL-HUNG "KINGSTON" #K-2007, (OR AMERICAN STANDARD OR ZURN EQUAL) CBC ACCESS COMPLIANT, 21-1/4"x18", VIT. CHINA WITH ONE FAUCET HOLE AT CENTER, MCGUIRE #155A GRID DRAIN, CHICAGO "HYTRONIC" "ECAST" #116.121.AB.1 WITH 0.5 GPM NON-AERATING LAMINAR SPRAY OUTLET (OR T&S BRASS OR ZURN EQUAL) SENSOR OPERATED, 120V/1Ø ELECTRIC POWERED FAUCET WITH EXTERNAL TEMP. MIXER LEVER AND 12 VOLT A.C. TRANSFORMER, JAY R. SMITH #723 CONCEALED ARMS, AND A STEEL SUPPORT PLATE FOR MOUNTING FIXTURE PER DETAIL D/P-3. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. INSTALL AN ASSE 1070 COMPLIANT THERMOSTATIC MIXING VALVE BELOW LAVATORY, LEONARD #170-LF-CP-BP-BRKT (OR EQUAL). SET OUTLET TEMPERATURE TO 110°F.
WH-1	INSTANTANEOUS WATER HEATER	-	-	1/4"	1/4"	CHRONOMITE #M-30L-120 WALL MOUNTED INSTANTANEOUS TYPE WITH MICRO-PROCESSOR SET FOR 110° F. FIXED OUTLET TEMPERATURE & 1/2 GPM FLOW RATE. ELECTRICAL REQUIRED: 3,600 WATTS, 120V/1Ø.
SA-1	SHOCK ABSORBER	-	-	1"	-	JAY R. SMITH #5010, (OR ZURN EQUAL) STAINLESS STEEL CONSTRUCTION, P.D.I. SYMBOL "B" FOR UP TO 32 FIXTURE UNITS. INSTALL IN UPWARD POSITION.
HB-1	HOSE BIBB	-	-	3/4"	-	WOODFORD #B75 (OR MIFAB EQUAL) RECESSED WALL HOSE BOX WITH LOCKING DOOR, VACUUM BREAKER, LOOSE TEE KEY HANDLE, SCREWDRIVER STOP, SELF DRAINING CAST STAINLESS STEEL FOR NON-FREEZE AREAS.
TL-1	TANK LEVEL MONITORING SYSTEM	-	-	-	-	OMEGA #LVU503 ULTRASONIC LEVEL TRANSMITTER, 9.8" MEASUREMENT RANGE, 2" NPT SENSOR MOUNTING THREADS, SUPPLY VOLTAGE 14-28 VDC. OMEGA #DP25B-S-R DIGITAL PROGRAMMABLE PROCESS METER WITH LED DISPLAY, SUPPLY VOLTAGE 115V. PROVIDE PANEL AS REQUIRED.



FIXTURE SUPPORT BACKING PLATE

SCALE: N.T.S.

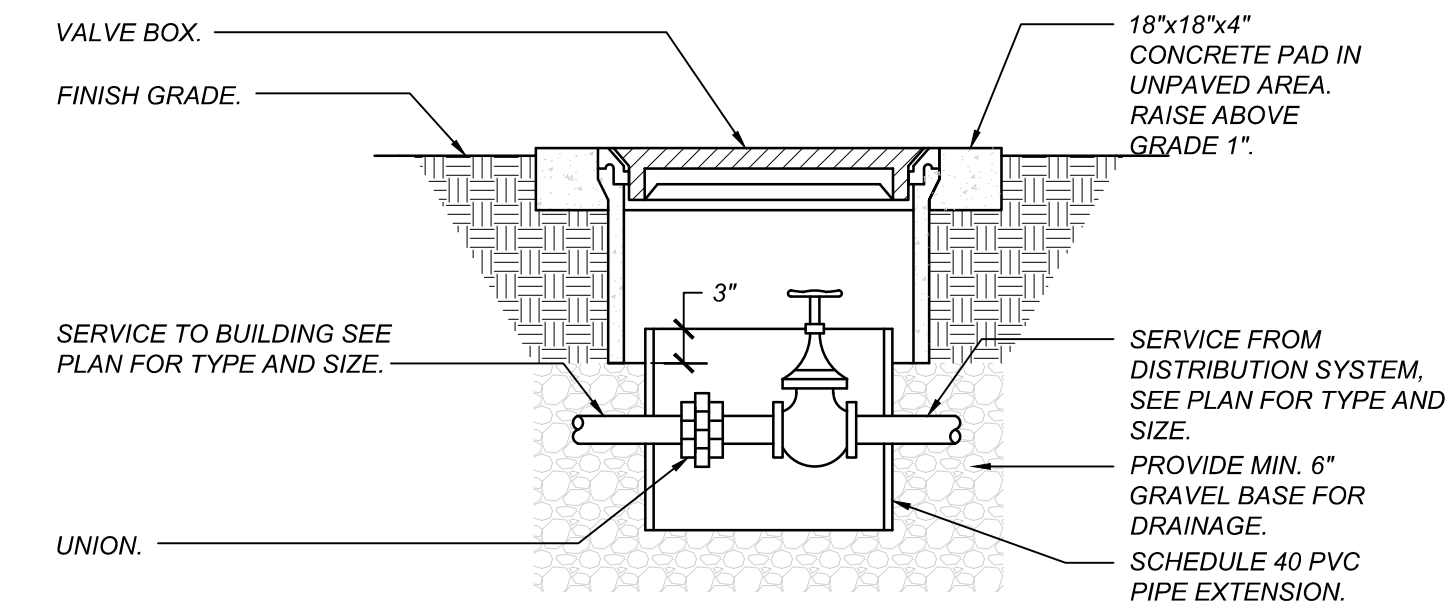
D
P2.0



FLOOR CLEANOUT

SCALE: N.T.S.

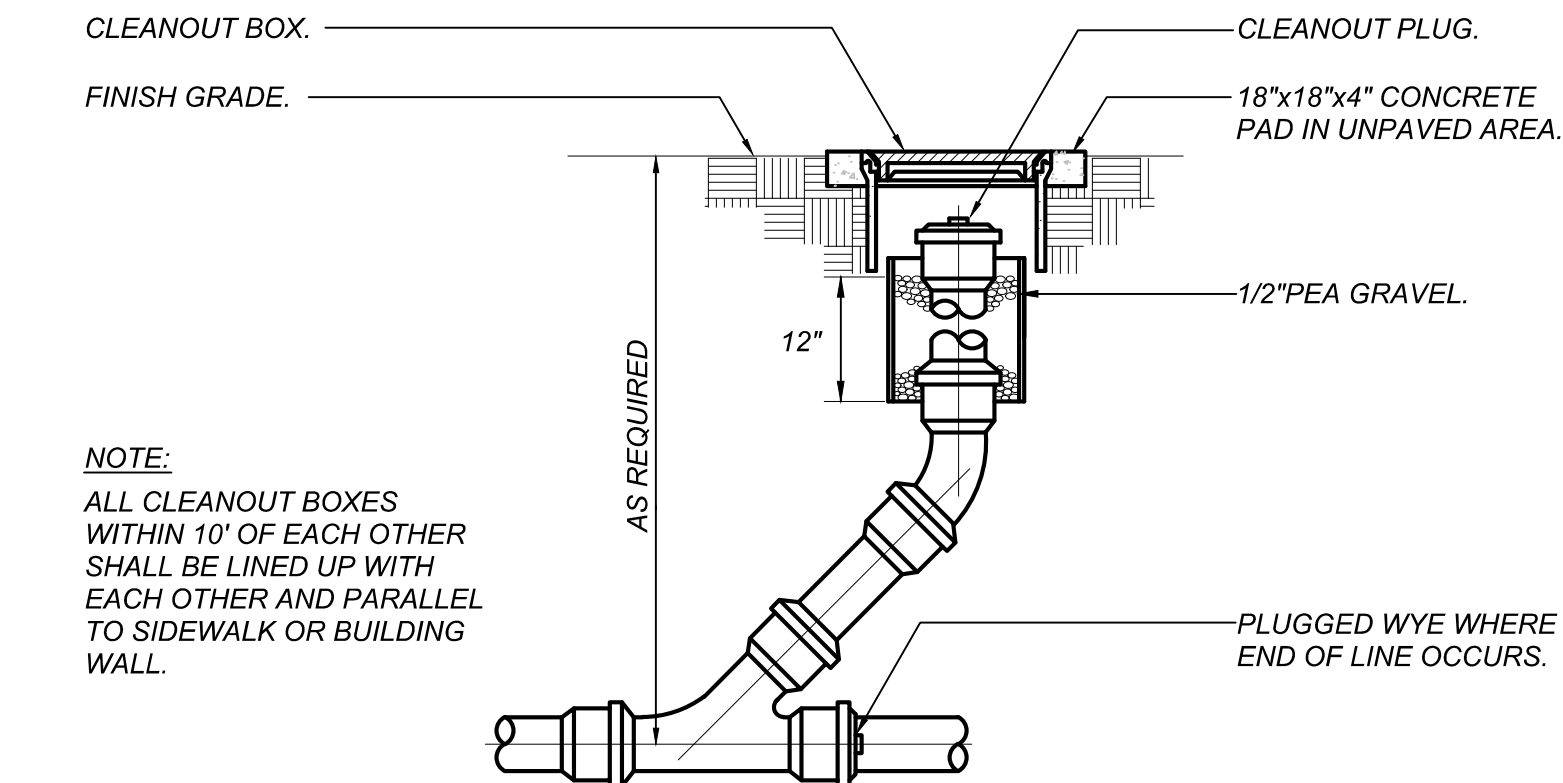
E
P2.0



SHUT-OFF VALVE IN YARD BOX

SCALE: DIAGRAMATIC

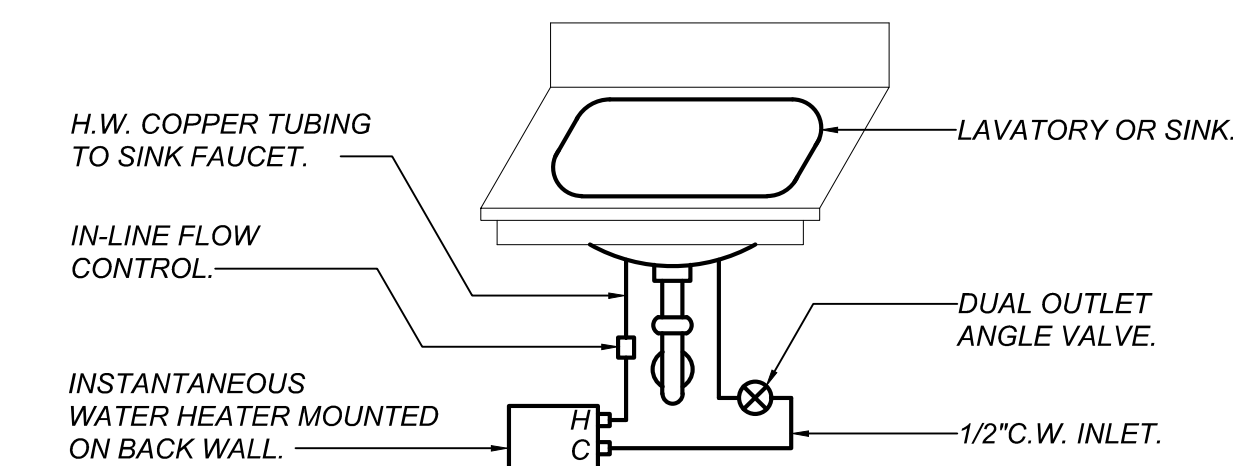
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P2.0



CLEANOUT TO GRADE DETAIL

SCALE: NONE

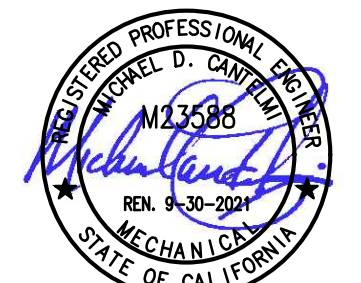
B
P2.0



INSTANTANEOUS WATER HEATER

SCALE: NONE

C
P2.0



Fresno County Environmental Compliance Center Phase 2: Office / Storage Building

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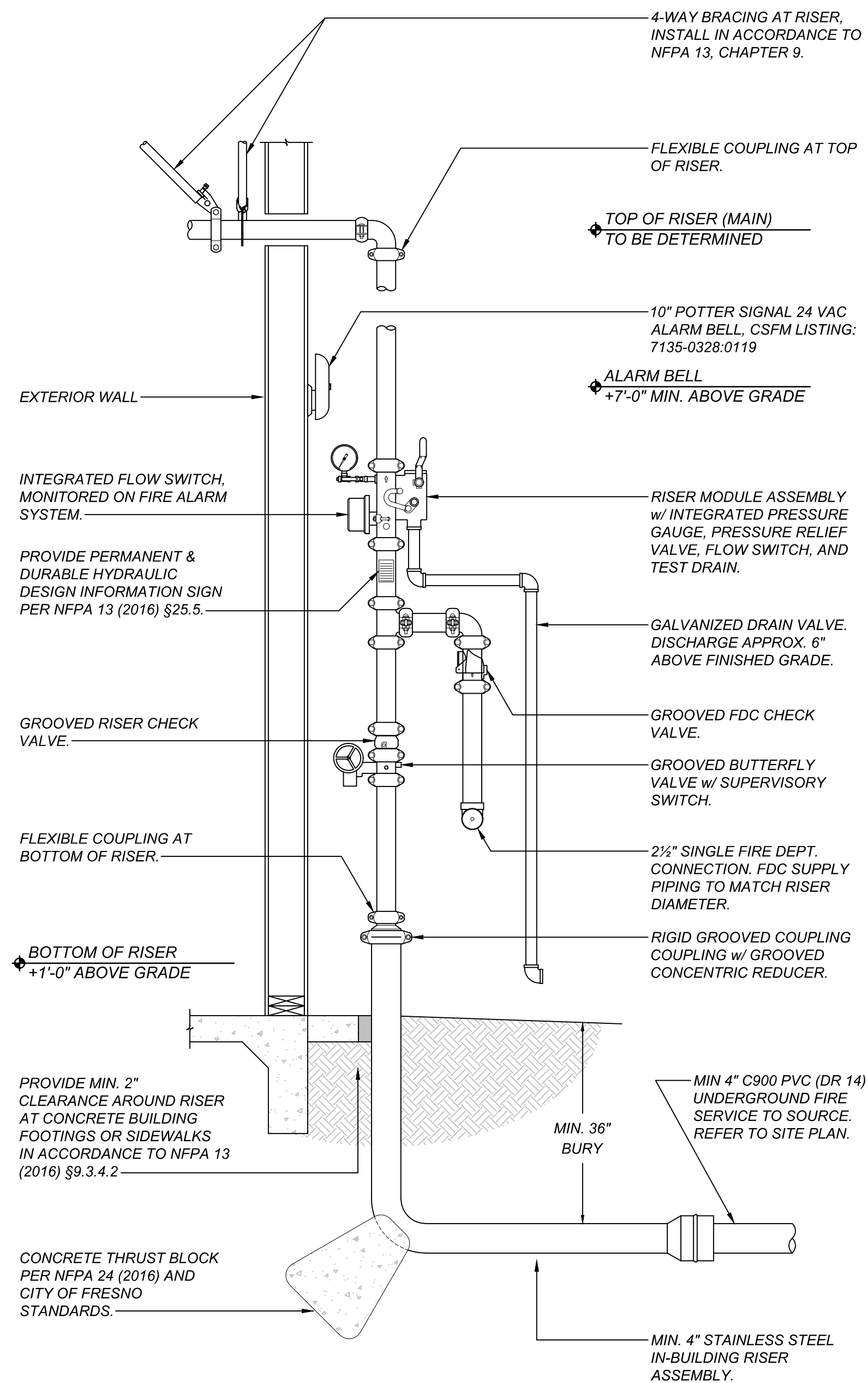
Sheet Content:

OFFICE / STORAGE BUILDING PLUMBING SCHEDULES AND DETAILS

Fresno County Department of Public Works and Planning Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

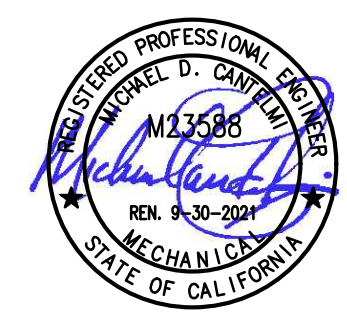
Sheet No.
P2.0

▲ Bid Addendum 2 5-21-2021
 ▲ Plan Review Corrections 5-21-2021



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

- RISER NOTES:**
1. EACH RISER DETAIL IS A SCHEMATIC REPRESENTATION OF THE RISER(S). ORIENTATION OF FITTINGS, VALVES, GAUGES, AND OTHER DEVICES HAVE BEEN MODIFIED FOR ILLUSTRATION PURPOSES AND MAY VARY IN ACTUAL INSTALLATION.
 2. PER NFPA 13 (2016) §9.3.2.3.1 - A FLEXIBLE COUPLING SHALL BE INSTALLED WITHIN 24" OF THE TOP AND BOTTOM OF ALL RISERS. RISERS LESS THAN 3 FT IN LENGTH MAY OMIT FLEX COUPLINGS. ONE FLEX COUPLING IS ADEQUATE FOR RISERS 3' TO 7' IN LENGTH.
 3. PER NFPA 13 (2016) §9.3.5.8.3 - WHEN A FOUR-WAY BRACE AT THE TOP OF A RISER IS ATTACHED ON THE HORIZONTAL PIPING, IT SHALL BE WITHIN 24" OF THE CENTERLINE OF THE RISER AND THE LOADS FOR THAT BRACE SHALL INCLUDE BOTH THE VERTICAL AND HORIZONTAL PIPE.
 4. PER NFPA 13 (2016) §25.5. - THE INSTALLING CONTRACTOR SHALL IDENTIFY A HYDRAULICALLY DESIGNED SPRINKLER SYSTEM WITH A PERMANENTLY MARKED WEATHERPROOF METAL OR RIGID PLASTIC SIGN SECURED WITH CORROSION RESISTANT WIRE, CHAIN, OR OTHER APPROVED MEANS.
 5. PER NFPA 13 (2016) §25.6.1 - THE INSTALLING CONTRACTOR SHALL PROVIDE A GENERAL INFORMATION SIGN USED TO DETERMINE SYSTEM DESIGN BASIS AND INFORMATION RELEVANT TO THE INSPECTION, TESTING, AND MAINTENANCE REQUIREMENTS REQUIRED BY NFPA 25.
 6. LOCATION OF 1/2" SYSTEM DRAIN TO BE COORDINATED WITH GENERAL CONTRACTOR. DRAIN PIPE AND FITTINGS SHALL BE GALV.
 7. FIRE RISER ROOM SHALL COMPLY WITH CBC (2016) 901.3 PER CFC (2016) SECTION 509.1 FIRE EQUIPMENT ROOMS SHALL BE IDENTIFIED IN AN APPROVED MANNER. APPROVED SIGNS SHALL BE DURABLE, PERMANENT, AND VISIBLE.



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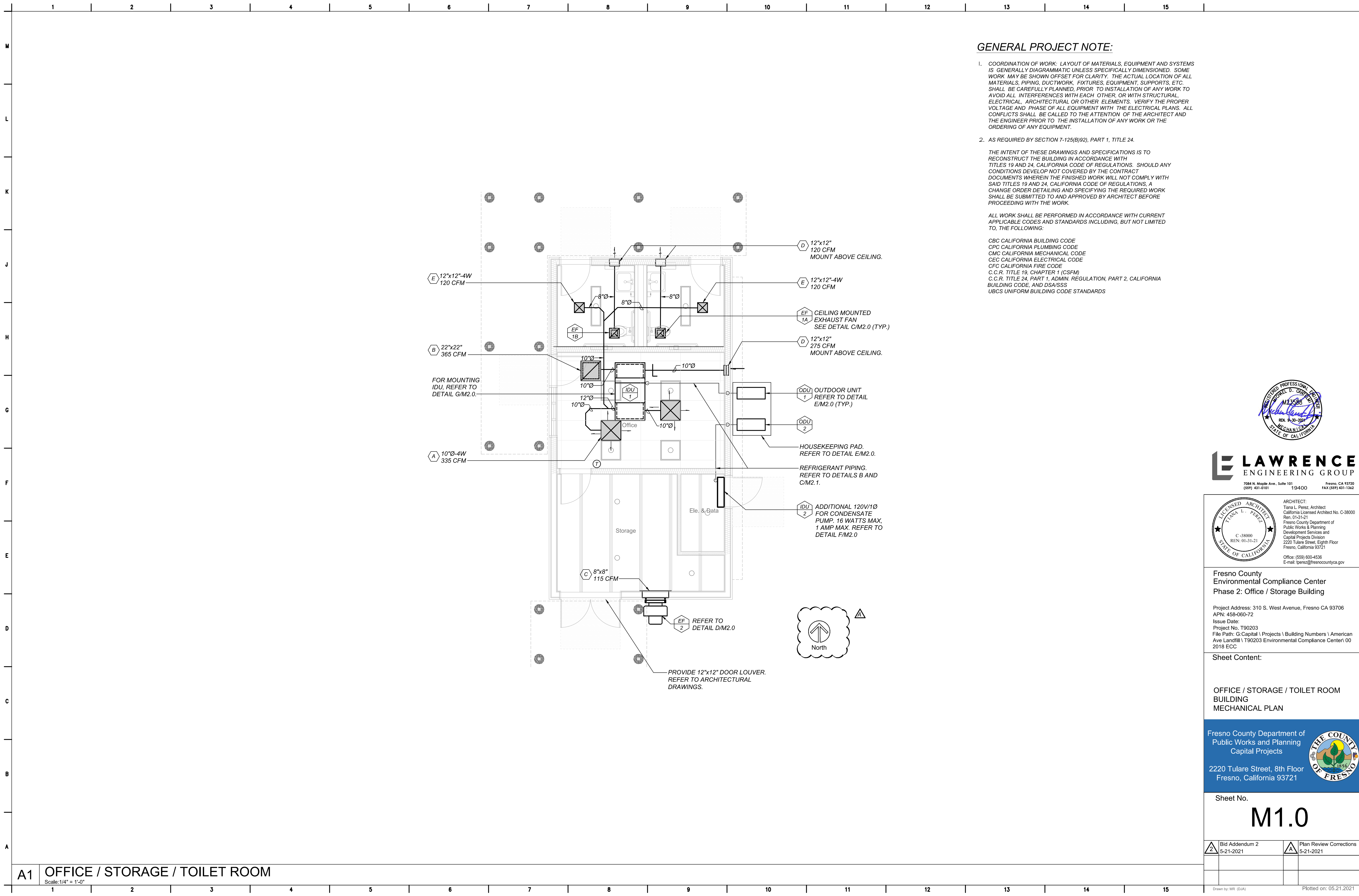
Fresno County Environmental Compliance Center Phase 2: Office / Storage Building
 Project Address: 310 S. West Avenue, Fresno CA 93706
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 File Path: G:\Capital \ Projects \ Building Numbers \ American Ave Landfill \ T90203 Environmental Compliance Center\ 00 2018 ECC

Sheet Content:
 OFFICE / STORAGE BUILDING
 RISER DETAIL
 FOR REFERENCE ONLY

Fresno County Department of Public Works and Planning
 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No.
P2.1

Bid Addendum 2 5-21-2021
 Plan Review Corrections 5-21-2021



GENERAL PROJECT NOTE:

1. COORDINATION OF WORK, LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY. THE ACTUAL LOCATION OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED, PRIOR TO INSTALLATION OF ANY WORK TO AVOID ALL INTERFERENCES WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL OR OTHER ELEMENTS. 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.

2. AS REQUIRED BY SECTION 7-125(B)92), PART 1, TITLE 24.

THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS TO RECONSTRUCT THE BUILDING IN ACCORDANCE WITH TITLES 19 AND 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID TITLES 19 AND 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY ARCHITECT BEFORE PROCEEDING WITH THE WORK.

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT APPLICABLE CODES AND STANDARDS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

- CBC CALIFORNIA BUILDING CODE
- CPC CALIFORNIA PLUMBING CODE
- CMC CALIFORNIA MECHANICAL CODE
- CEC CALIFORNIA ELECTRICAL CODE
- CFC CALIFORNIA FIRE CODE
- C.C.R. TITLE 19, CHAPTER 1 (CSFM)
- C.C.R. TITLE 24, PART 1, ADMIN. REGULATION, PART 2, CALIFORNIA BUILDING CODE, AND DSA/SSS
- UBCS UNIFORM BUILDING CODE STANDARDS



Fresno County Environmental Compliance Center
Phase 2: Office / Storage Building

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Sheet Content:

OFFICE / STORAGE / TOILET ROOM BUILDING MECHANICAL PLAN



Sheet No.
M1.0

2	Bid Addendum 2 5-21-2021	Plan Review Corrections 5-21-2021
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A1 OFFICE / STORAGE / TOILET ROOM
 Scale: 1/4" = 1'-0"

AIR CONDITIONING LEGEND		
SYMBOL	ITEM	ABBR
	ROUND DUCT	Ø
	FLAT OVAL DUCT	—
	SHEET METAL DUCT	—
	ACOUSTIC LINING FOR DUCT OR GRILLES	(L)
	DUCT W/EXT INSULATION & GALV. SM SUNSHIELD	—
	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	FSD
	FIRE DAMPER WITH ACCESS PANEL	FD
	SMOKE DAMPER WITH ACCESS PANEL	SD
	CUBIC FEET OF AIR PER MINUTE	CFM
	EMS MOTORIZED DUCT DAMPER/PIPE VALVE ACTUATOR	—
	THERMOSTAT @ +4'-0" TOP OF BOX	T'STAT
	HUMIDISTAT @ +4'-0" TOP OF BOX	H'STAT
	CO2 SENSOR @ +4'-0" TOP OF BOX	CO2
	EMS TEMPERATURE SENSOR @ +4'-0" TOP OF BOX	—
	EMS HUMIDITY SENSOR @ +4'-0" TOP OF BOX	—
	EMS CO2 SENSOR @ +4'-0" TOP OF BOX	CO2
	EMS STATIC PRESSURE SENSOR	SP
	EMS DIFFERENTIAL PRESSURE SENSOR	DP
	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)
	DUCT SMOKE DETECTOR	SD
	AUDIBLE/VISUAL ALARM	A/VA
	BYPASS TIMER	BPT

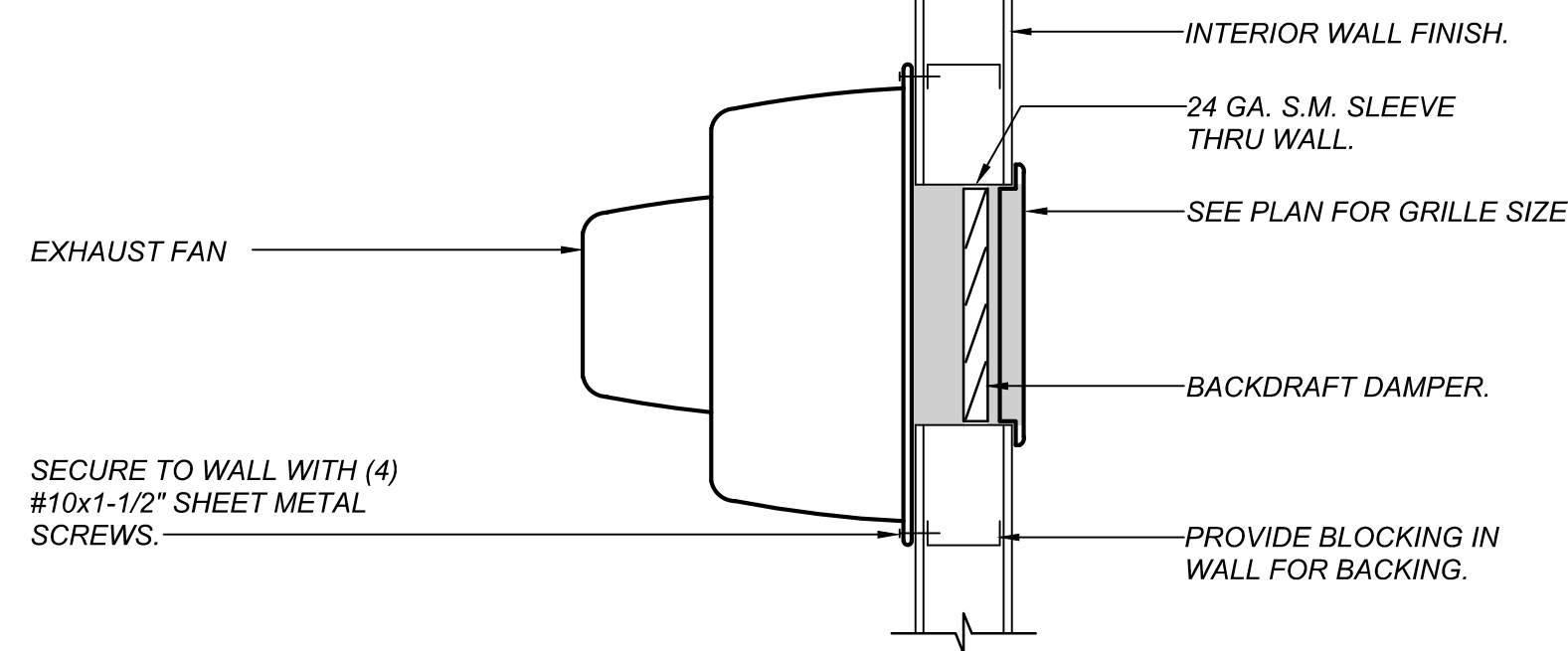
EXHAUST FAN SCHEDULE		
DESIGNATION	EF 1A	EF 1B
CFM	120	115
ESP (IN WC)	0.5	0.5
HP/WATTS	-/39	1/15 / -
VOLTS/PHASE	115/1	115/1
RPM	842	1711
TIP SPEED/SONES	-/3.0	3.639 / 5.1
DRIVE	DIRECT	DIRECT
MOUNTING	CEILING	WALL
MANUFACTURER	GREENHECK	GREENHECK
TYPE	CEILING	CENTRIFUGAL
MODEL NUMBER	SP-80-VG	CUE-070-VG
CONTROL	①	②
SERVICE	SEE PLANS	SEE PLANS
OPER. WT. (LBS)	30	90
ACCESSORIES	①	②

- ① INTERLOCK WITH IDU-1, PROVIDE AN ADJUSTABLE TIME-DELAY RELAY, SET AT 15 MINS.
- ② WALL BRACKET, ELECTRICAL DISCONNECT, BACKDRAFT DAMPER, BIRD SCREEN

INDOOR UNIT SCHEDULE		
DESIGNATION	IDU 1	IDU 2
CFM	910	380
ESP (IN WC)	0.64	-
MIN OSA	275	-
HP/MCA	①	①/1.2
VOLTS/PHASE	① 208/230 / 1	① 208/230 / 1
DRIVE	DIRECT	DIRECT
SENSIBLE (MBH)	21.89	9.77
TOTAL (MBH)	26.19	11.49
EADB/EAWB (FP)	80 / 67	-
REFRIGERANT	R410A	R410A
CAPACITY (MBH)	37.15	13.86
QUANTITY/SIZE	1 / 12"x24"x4"	-
TYPE	MERV 13	WASHABLE
PD (IN WC)	0.15	-
MANUFACTURER	CARRIER	CARRIER
TYPE	CONCEALED	HIGH WALL
MODEL NUMBER	40MBDQ36	40MAQB12B
SERVICE	OFFICE	DATA
OPER WT (LBS)	140	-
ACCESSORIES	③ ④	③ ②

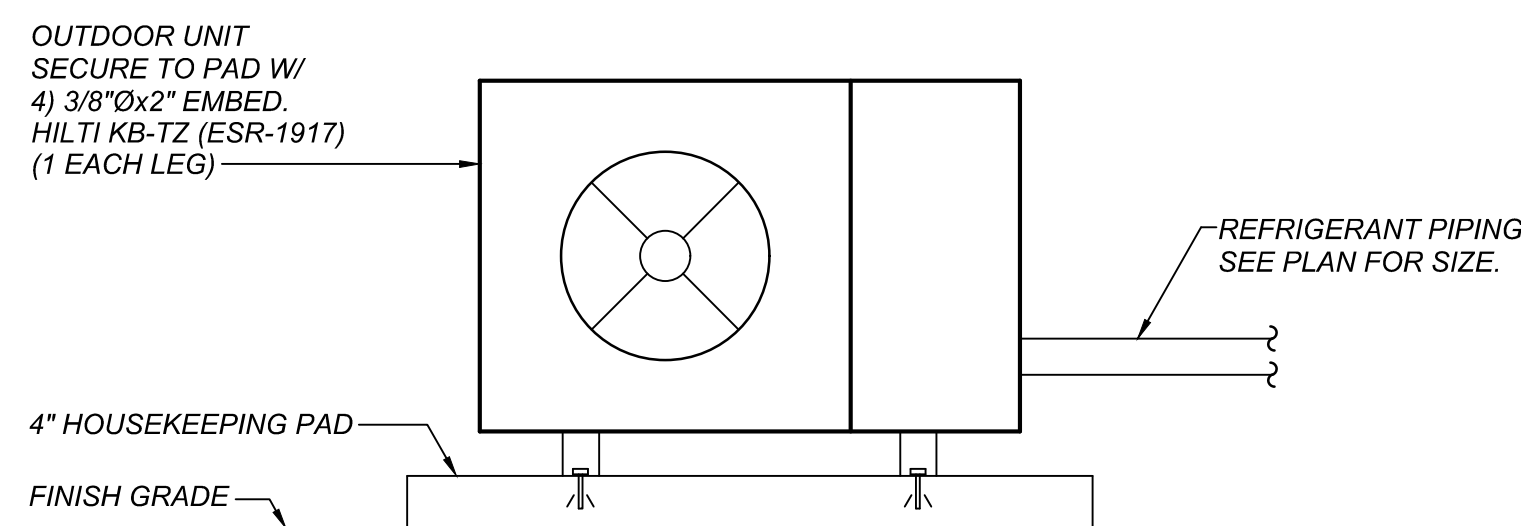
- ① UNIT POWERED BY OUTDOOR UNIT
- ② GOBI # 4678538 CONDENSATE PUMP, 115V/1PH/16W MAX
- ③ INTEGRAL OVERFLOW CUT-OFF SWITCH
- ④ MERV 13 FILTER BOX, FIELD TRANSITION FROM BOX TO UNIT.

OUTDOOR UNIT SCHEDULE		
DESIGNATION	ODU 1	ODU 2
MCA/MOCP	30 / 50	9/15
VOLTS/PHASE	208/230 / 1	208/230 / 1
SEER/COP AT ARI	16.5 / 11.5	22.5 / 12
COOLING CAP (MBH)	26.19	11.49
HEATING CAP (MBH)	37.15	13.86
AMBIENT (°F)	105	105
REFRIGERANT	R410A	R410A
MANUFACTURER	CARRIER	CARRIER
TYPE	HEAT PUMP	HEAT PUMP
MODEL NUMBER	38MBRQ36A	38MAQB12R-3
SERVICE	OFFICE	OFFICE
OPER WT (LBS)	140	140
ACCESSORIES	-	-



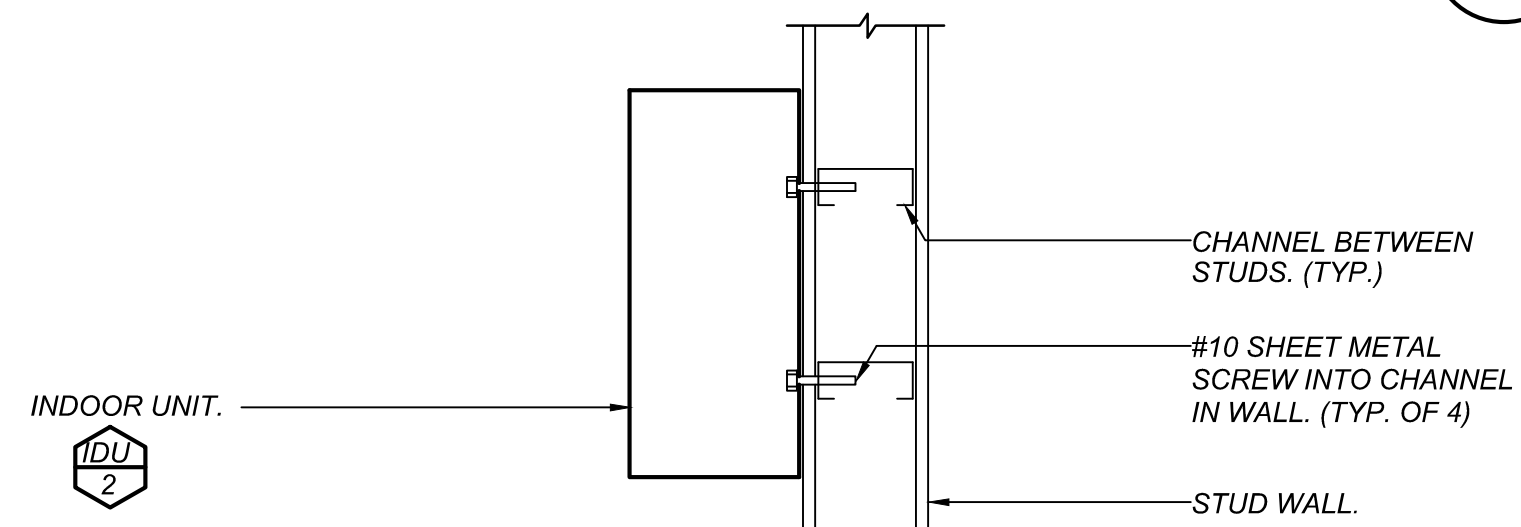
WALL EXHAUST FAN MOUNTING DETAIL

SCALE: NONE



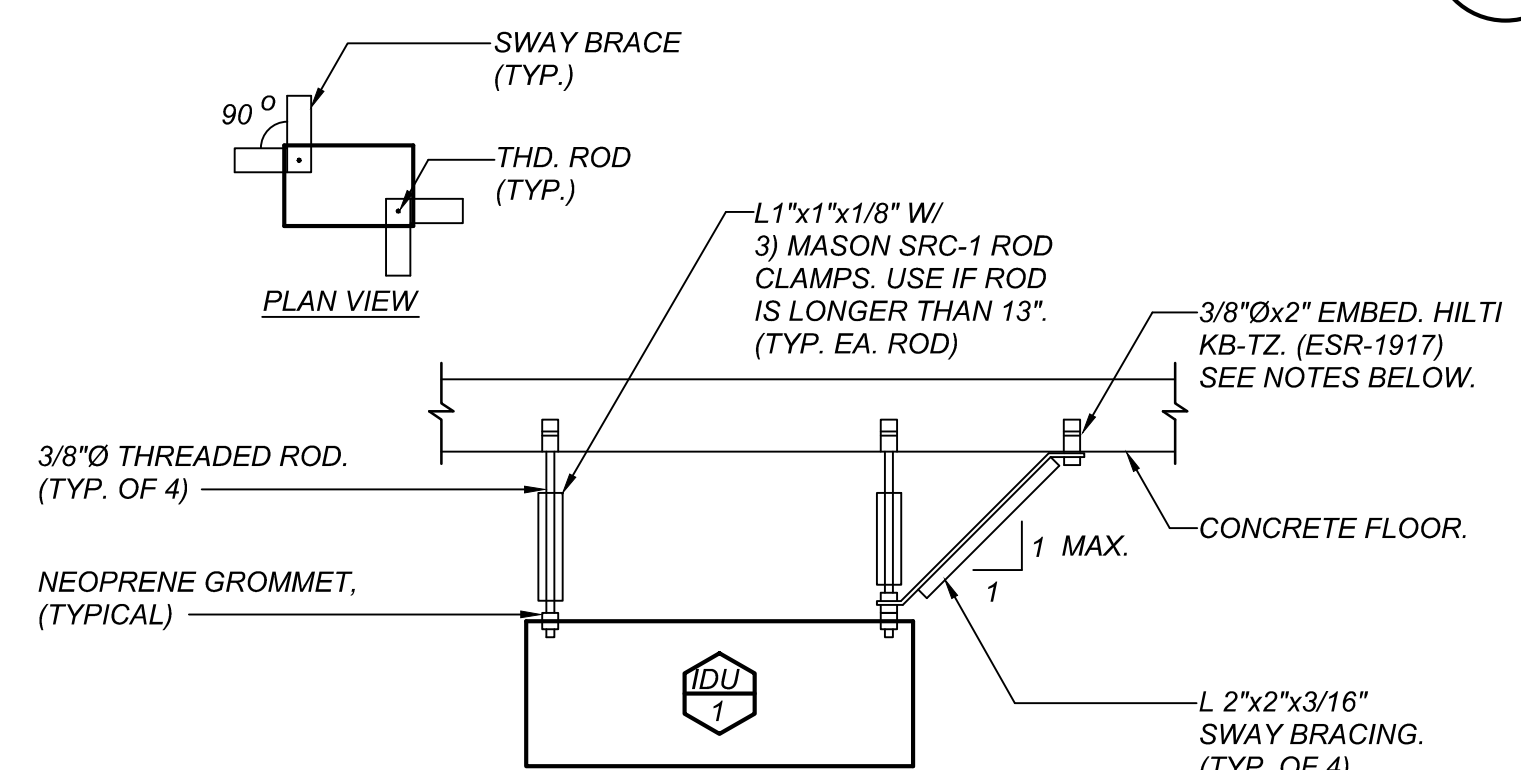
OUTDOOR UNIT MOUNTING DETAIL

SCALE: NONE



INDOOR UNIT MOUNTING DETAIL

SCALE: NONE

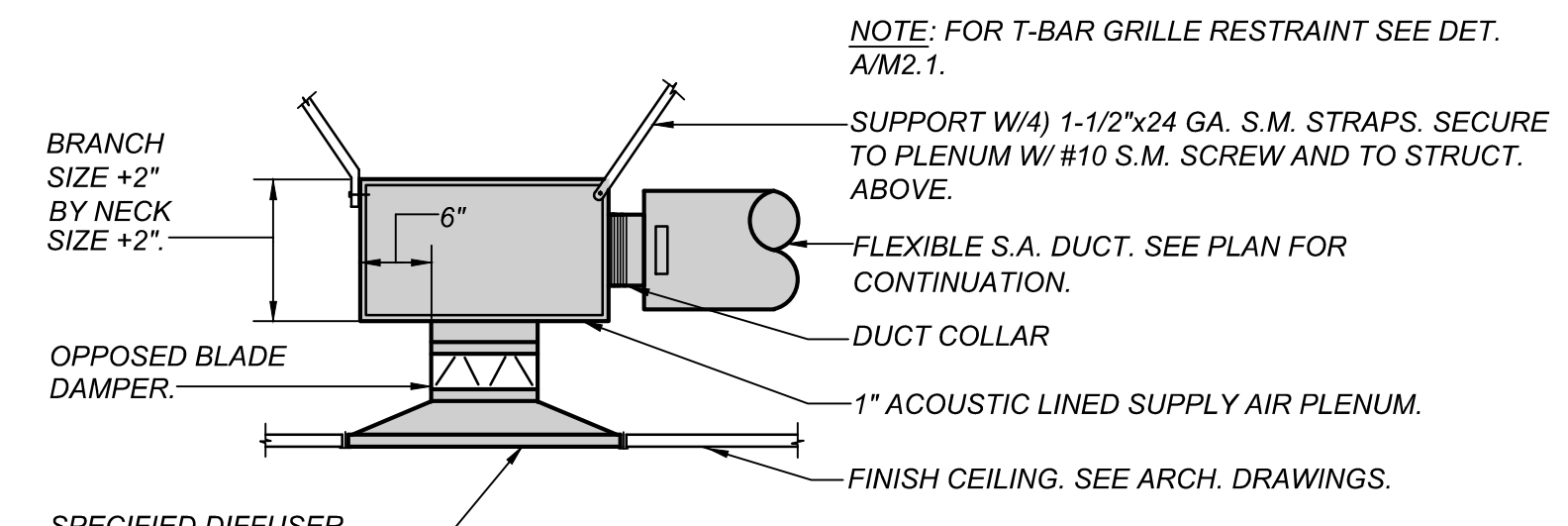


NOTES:

1. INSTALL EXPANSION ANCHOR IN ACCORD W/REQUIREMENTS GIVEN IN ICC ES RECOMMENDATIONS.
2. LOAD TEST 50% OF THE ANCHORS TO 250# TENSION. IF ANY FAIL, THEN TEST ALL ANCHORS. PERFORM TESTS IN PRESENCE OF PROJECT INSPECTOR.
3. LOAD MAY BE APPLIED BY ANY METHOD THAT WILL EFFECTIVELY MEASURE TENSION IN THE ANCHOR.
4. SEE GENERAL NOTE 4 ON SHEET M1.1.

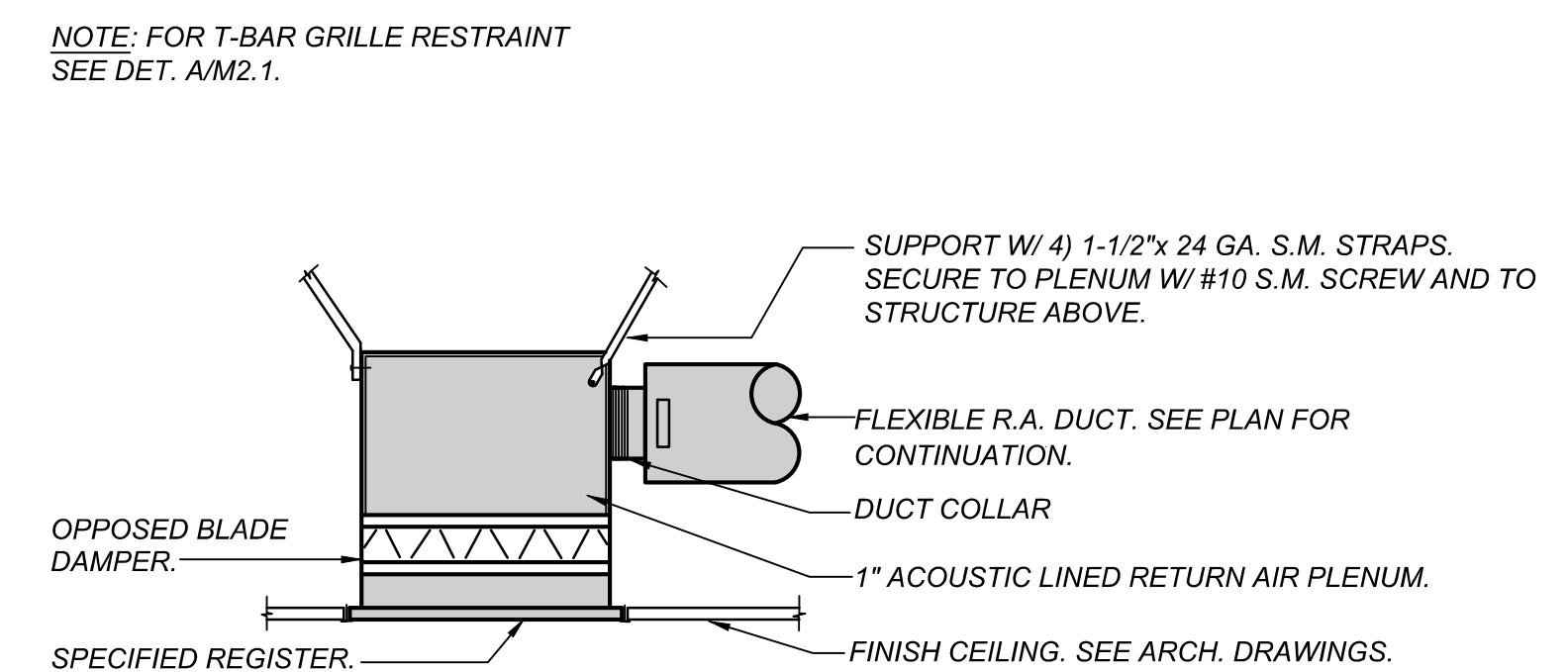
INDOOR UNIT MOUNTING DETAIL

SCALE: NONE



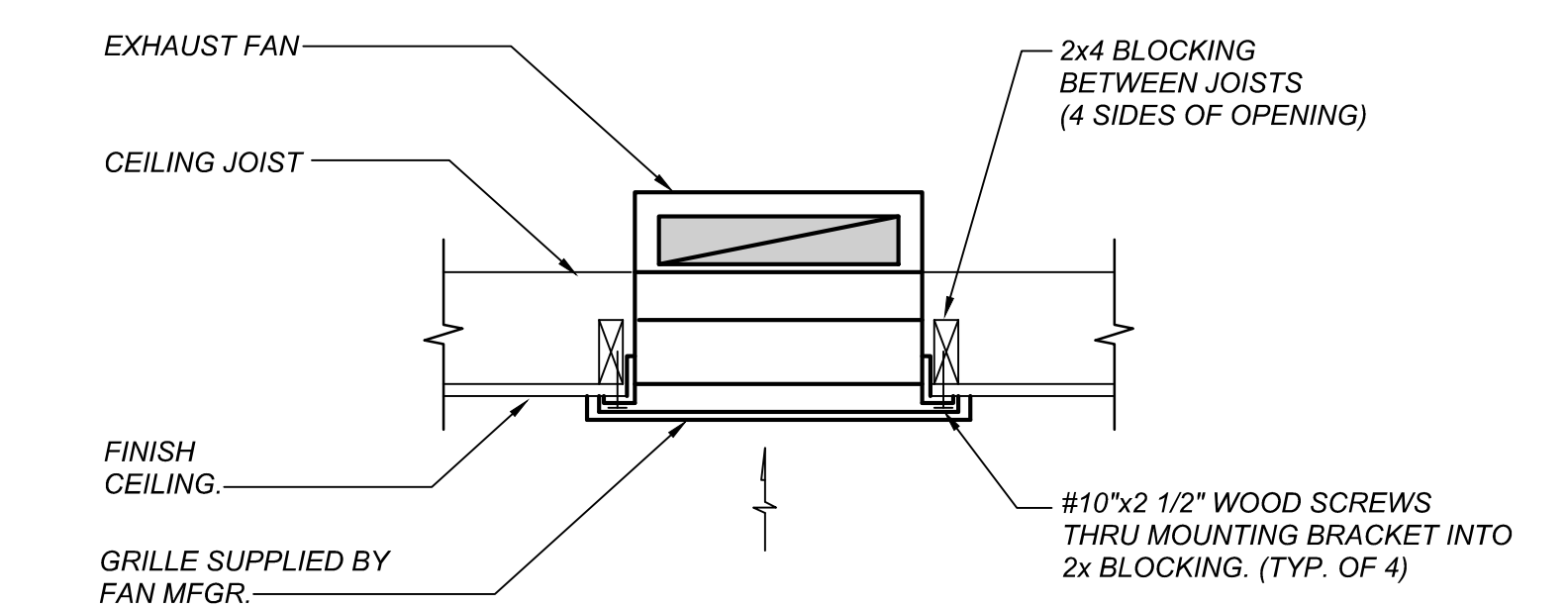
TYPICAL S.A. DEVICE-BRANCH DUCT DETAIL

SCALE: NONE



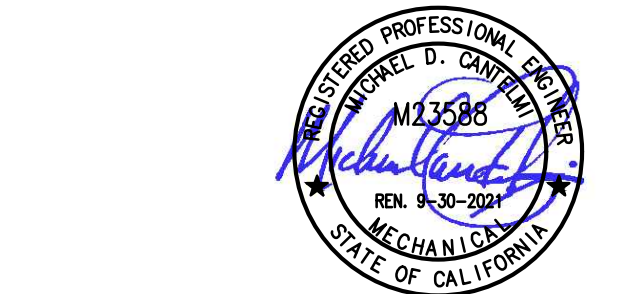
TYPICAL R.A. DEVICE-BRANCH DUCT DETAIL

SCALE: NONE



CEILING EXHAUST FAN MOUNTING DETAIL

SCALE: NONE



Fresno County Environmental Compliance Center Phase 2: Office / Storage Building

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Sheet Content:

OFFICE BLDG. MECHANICAL SCHEDULES AND DETAILS

Fresno County Department of Public Works and Planning Capital Projects

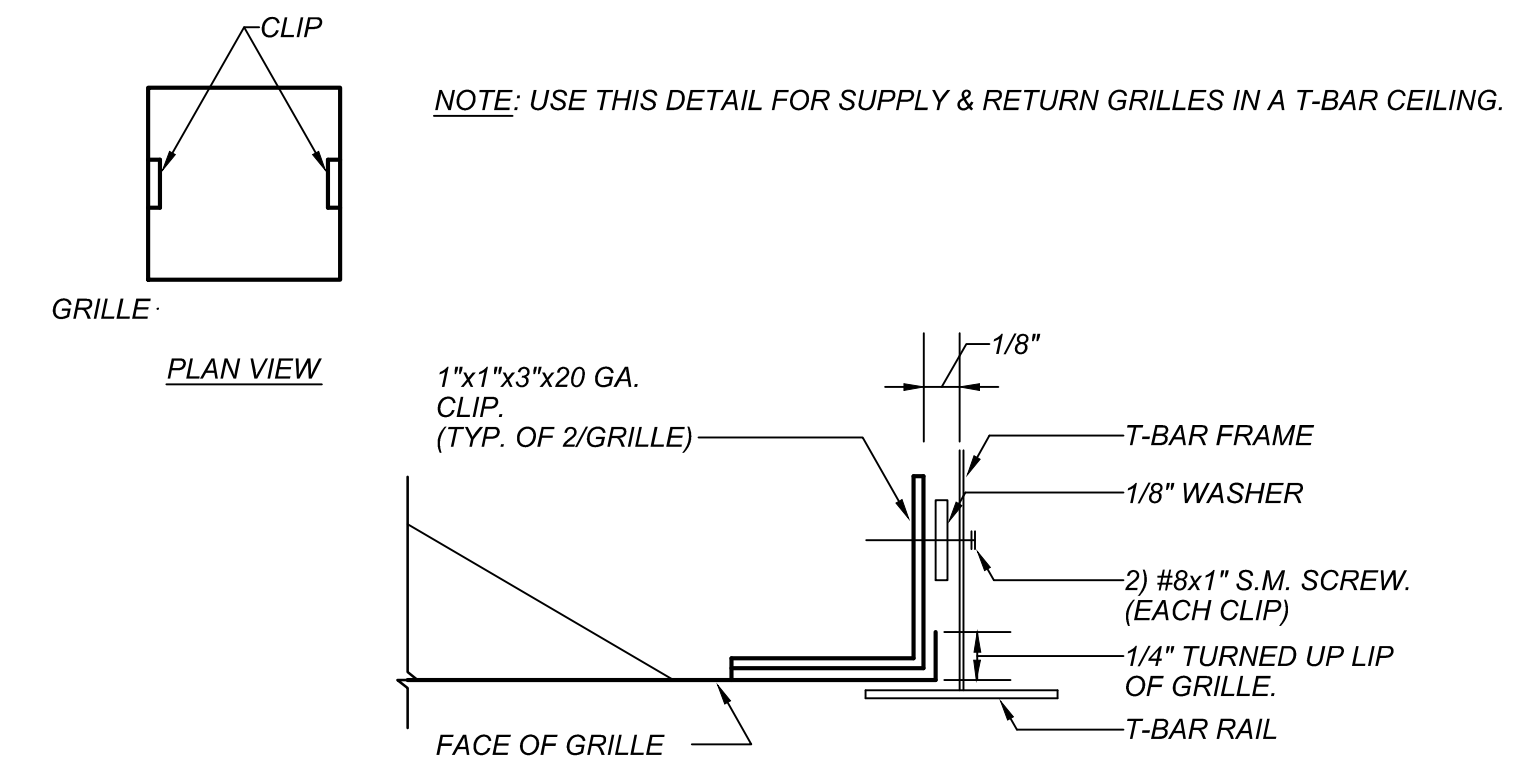
2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No.

M2.0

2	Bid Addendum 2 5-21-2021	Plan Review Corrections 5-21-2021
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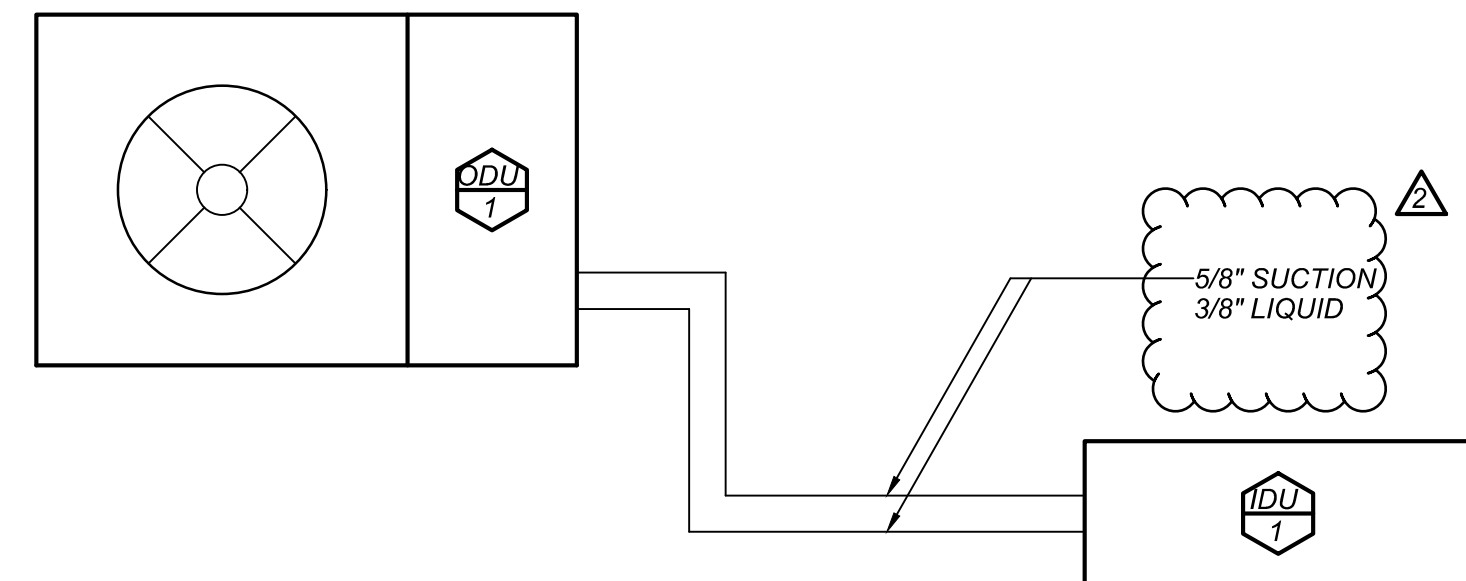
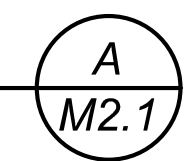
GRILLE SCHEDULE		
MARK	DUTY	DESCRIPTION
A	CEILING SUPPLY	TITUS TDC (TYPE 3) FULL LOUVER FACE ROUND OR RECTANGULAR NECK DIFFUSER FOR STD. LAY-IN CEILING WITH NO. 26 WHITE FINISH. (18"x18" NECK, ADAPTER SIZE SHOWN)
B	CEILING RETURN	TITUS CORE 50F (TYPE 3) ALUMINUM EGG CRATE REGISTER WITH 1/2"x1/2" GRID FOR STD. LAY-IN CEILING WITH NO. 26 WHITE FINISH.
C	WALL EXHAUST	TITUS MODEL 350RL STEEL RETURN GRILLE WITH 35° DEFLECTION BLADES AT 3/4" SPACING AND NO. 26 WHITE FINISH.
D	LOUVER	RUSKIN L811 20 GAUGE GALVANIZED SHEET METAL LOUVER WITH 1/2" MESH SCREEN ON INSIDE FACE. PRIME FOR PAINT.
E	CEILING SUPPLY	TITUS TDC (TYPE 1) LOUVER FACE SQUARE OR RECTANGULAR NECK DIFFUSER FOR SURFACE MOUNTING WITH NO. 26 WHITE FINISH.



GRILLE RESTRAINT DETAIL

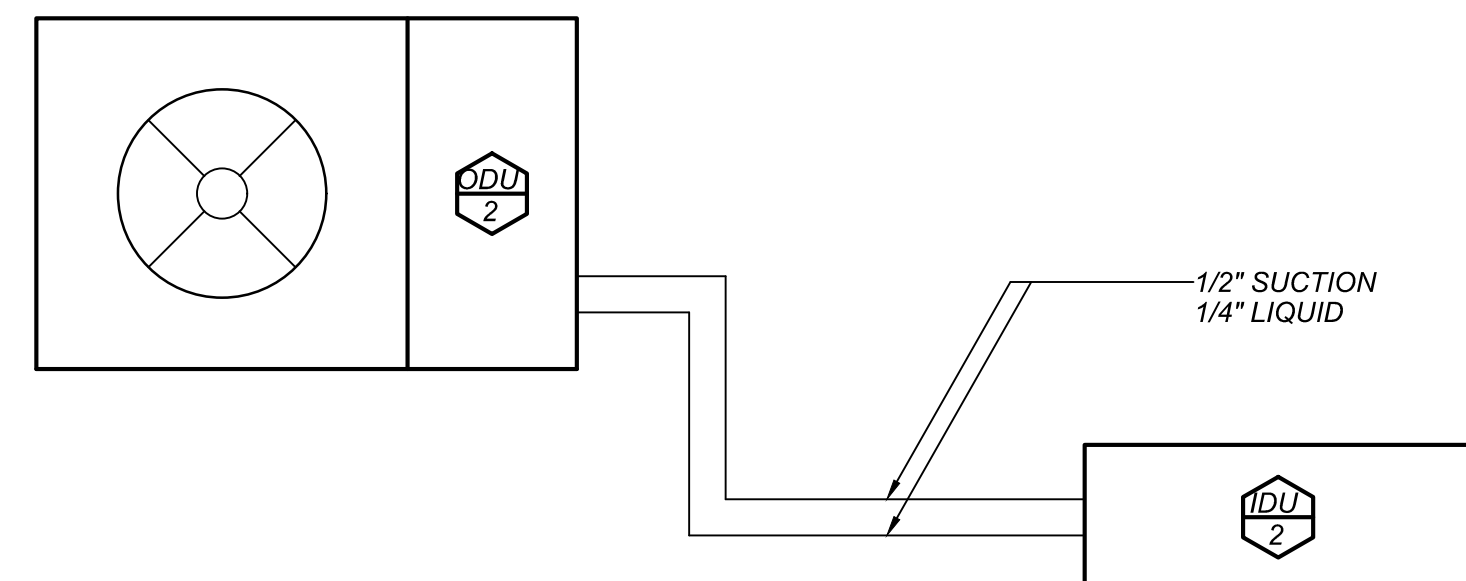
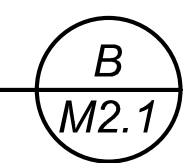
SCALE: NONE

MD090



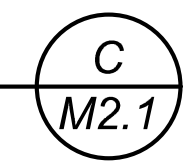
REFRIGERANT PIPING DETAIL FOR ODU-1

SCALE: NONE



REFRIGERANT PIPING DETAIL FOR ODU-2

SCALE: NONE



LAWRENCE ENGINEERING GROUP
 7084 N. Maple Ave., Suite 101 Fresno, CA 93720
 (559) 431-0101 19400 FAX (559) 431-1342

ARCHITECT:
 Tiana L. Perez, Architect
 California Licensed Architect No. C-38000
 Ren. 01-31-21
 Fresno County Department of
 Public Works & Planning
 Development Services and
 Capital Projects Division
 2220 Tulare Street, Eighth Floor
 Fresno, California 93721
 Office: (559) 600-4536
 E-mail: tperez@fresnocountyca.gov

Fresno County
 Environmental Compliance Center
 Phase 2: Office / Storage Building

Project Address: 310 S. West Avenue, Fresno CA 93706
 APN: 458-060-72
 Issue Date:
 Project No. T90203
 File Path: G:Capital \ Projects \ Building Numbers \ American
 Ave Landfill \ T90203 Environmental Compliance Center\ 00
 2018 ECC

Sheet Content:

 MECHANICAL
 SCHEDULES
 AND DETAILS

Fresno County Department of
 Public Works and Planning
 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No.
M2.1

2	Bid Addendum 2 5-21-2021	A	Plan Review Corrections 5-21-2021
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Project Name:	Fresno County Environmental Compliance Center	NRCC-PRF-01-E	Page 11 of 14
Project Address:	310 S. West Avenue Fresno 93657	Calculation Date/Time:	09:37, Fri, Jun 12, 2020
Input File Name:	Fresno Environmental Compliance_V8_06.11.2020.cbd19x		

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
 Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	YES	NO	Form/Title	Field Inspector	
				Pass	Fail
Envelope	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-ENV-02-F - NRFC label verification for fenestration	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	NRCA-ENV-03-F - Daylighting Design PAFs	<input type="checkbox"/>	<input type="checkbox"/>
Indoor Lighting	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-LTI-03-A - Automatic Daylight Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-LTI-04-A - Demand Responsive Lighting Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-LTI-05-A - Institutional Tuning Power Adjustment Factor (PAF)	<input type="checkbox"/>	<input type="checkbox"/>
Covered Process	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-PRC-02-F - Kitchen Exhaust	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-PRC-03-F - Garage Exhaust	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-PRC-12-F - Elevator Lighting and Ventilation Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-PRC-13-F - Escalator and Moving Walkways Speed Control	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-PRC-14-F - Lab Exhaust Ventilation System	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-PRC-15-F - Fume Hood Automatic Sash Closures System	<input type="checkbox"/>	<input type="checkbox"/>	

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-04282020-6206 Report Generated at: 2020-06-12 09:37:38

Project Name:	Fresno County Environmental Compliance Center	NRCC-PRF-01-E	Page 10 of 14
Project Address:	310 S. West Avenue Fresno 93657	Calculation Date/Time:	09:37, Fri, Jun 12, 2020
Input File Name:	Fresno Environmental Compliance_V8_06.11.2020.cbd19x		

Q. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
 Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Building Component	YES	NO	Form/Title	Field Inspector	
				Pass	Fail
Envelope	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCI-ENV-01-E - Must be submitted for all buildings	<input type="checkbox"/>	<input type="checkbox"/>
Mechanical	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCI-MCH-01-E - Must be submitted for all buildings	<input type="checkbox"/>	<input type="checkbox"/>
Plumbing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCI-PLB-01-E - Must be submitted for all buildings	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCI-PLB-02-E - Must be submitted for high-rise residential and hotel/ motel central hot water distribution systems to be recognized for compliance	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCI-PLB-03-E - Must be submitted for high-rise residential and hotel/motel single dwelling unit hot water system distribution systems to be recognized for compliance	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCI-PLB-21-E - Must be HERS verified for central systems in high-rise residential hotel/ motel application	<input type="checkbox"/>	<input type="checkbox"/>
Indoor Lighting	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCI-PLB-22-E - Must be HERS verified for single dwelling unit systems in high-rise residential, hotel/motel application	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCI-STH-01-E - Must be submitted for solar hot water heating systems	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCI-LTI-01-E - Must be submitted for all buildings	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS) to be recognized for compliance	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance	<input type="checkbox"/>	<input type="checkbox"/>
Covered Process	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCI-PRC-01-E - Must be submitted for all Covered Processes	<input type="checkbox"/>	<input type="checkbox"/>

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-04282020-6206 Report Generated at: 2020-06-12 09:37:38

Project Name:	Fresno County Environmental Compliance Center	NRCC-PRF-01-E	Page 9 of 14
Project Address:	310 S. West Avenue Fresno 93657	Calculation Date/Time:	09:37, Fri, Jun 12, 2020
Input File Name:	Fresno Environmental Compliance_V8_06.11.2020.cbd19x		

N. INDOOR LIGHTING SUMMARY §140.6
 This Section Does Not Apply

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-04282020-6206 Report Generated at: 2020-06-12 09:37:38

Project Name:	Fresno County Environmental Compliance Center	NRCC-PRF-01-E	Page 14 of 14
Project Address:	310 S. West Avenue Fresno 93657	Calculation Date/Time:	09:37, Fri, Jun 12, 2020
Input File Name:	Fresno Environmental Compliance_V8_06.11.2020.cbd19x		

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Crighton Whaley	Signature:
Company: Lawrence Engineering Group	Signature Date: 2020-06-12
Address: 7084 North Maple Ave., Suite 101	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Fresno CA 93720	
Phone: (559) 431-0101	

RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- 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)
- 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.
- 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.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Envelope Designer Name: Tiana L. Perez	Signature:
Company: Fresno County Department of Public Works and Planning	Date Signed:
Address: 2220 Tulare Street, Eighth Floor	
City/State/Zip: Fresno CA 93721	Title:
Phone: (559) 600-4477	License #: C-38000
Responsible Lighting Designer Name:	Signature: NOT IN SCOPE
Company:	Date Signed:
Address:	
City/State/Zip:	Title:
Phone:	License #:
Responsible Mechanical Designer Name: Michael D. Cartelmi, P.E.	Signature:
Company: Lawrence Engineering Group	Date Signed:
Address: 7084 North Maple Avenue, Suite 101	
City/State/Zip: Fresno CA 93720	Title:
Phone: (559) 431-0101	License #: M23588

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-04282020-6206 Report Generated at: 2020-06-12 09:37:38

Project Name:	Fresno County Environmental Compliance Center	NRCC-PRF-01-E	Page 13 of 14
Project Address:	310 S. West Avenue Fresno 93657	Calculation Date/Time:	09:37, Fri, Jun 12, 2020
Input File Name:	Fresno Environmental Compliance_V8_06.11.2020.cbd19x		

Q. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
 Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/

Building Component	YES	NO	Form/Title	Field Inspector	
				Pass	Fail
Mechanical	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCV-MCH-04-H Duct Leakage Test	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCV-MCH-24-H Enclosure Air Leakage	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation	<input type="checkbox"/>	<input type="checkbox"/>
Plumbing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCV-MCH-32-H Local Mechanical Exhaust	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCV-PLB-21-H - HERS verified central systems in high-rise residential, hotel/motel application	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCV-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application	<input type="checkbox"/>	<input type="checkbox"/>	

R. UNMET LOAD HOURS
 This Section Does Not Apply

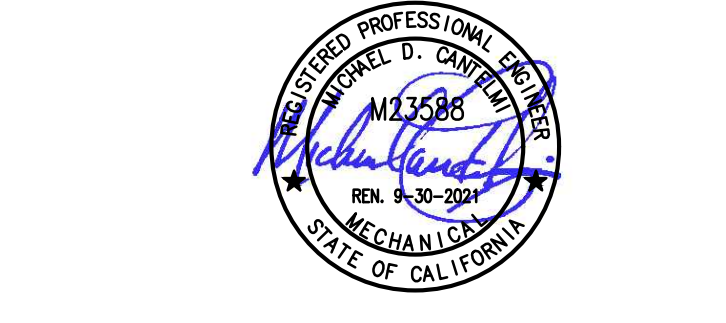
CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-04282020-6206 Report Generated at: 2020-06-12 09:37:38

Project Name:	Fresno County Environmental Compliance Center	NRCC-PRF-01-E	Page 12 of 14
Project Address:	310 S. West Avenue Fresno 93657	Calculation Date/Time:	09:37, Fri, Jun 12, 2020
Input File Name:	Fresno Environmental Compliance_V8_06.11.2020.cbd19x		

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
 Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	YES	NO	Form/Title	Field Inspector	
				Pass	Fail
Mechanical	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-03-A Constant Volume Single Zone HVAC	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-04(a)-H Air Distribution Duct Leakage - HERS Verification required	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-04(b)-A Air Distribution Duct Leakage - ATT only	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-05-A Air Economizer Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)(3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-07-A Supply Fan Variable Flow Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-08-A Valve Leakage Test	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-09-A Supply Water Temperature Reset Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-10-A Hydronic System Variable Flow Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-11-A Automatic Demand Shed Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-16-A Supply Air Temperature Reset Controls	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-17-A Condenser Water Temperature Reset Controls	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-18 Energy Management Control Systems	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-19 Occupancy Sensor Controls	<input type="checkbox"/>	<input type="checkbox"/>	

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-04282020-6206 Report Generated at: 2020-06-12 09:37:38



LAWRENCE ENGINEERING GROUP
 7084 N. Maple Ave., Suite 101 Fresno, CA 93720
 (559) 431-0101 19400 FAX (559) 431-1342



Fresno County Environmental Compliance Center
 Phase 2: Office / Storage Building

Project Address: 310 S. West Avenue, Fresno CA 93706
 APN: 458-060-72
 Issue Date:
 Project No. T90203
 File Path: G:\Capital \ Projects \ Building Numbers \ American Ave Landfill \ T90203 Environmental Compliance Center\ 00 2018 ECC

Sheet Content:

MECHANICAL
 TITLE 24

Fresno County Department of Public Works and Planning
 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No.
M2.3

	Bid Addendum 2 6-21-2021		Plan Review Corrections 5-21-2021
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Electrical General Notes

- 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 2019
 - CALIFORNIA ELECTRICAL CODE 2019
 - NON RESIDENTIAL CEC ENERGY STANDARDS 2019
- NOTHING IN THE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.
- 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.
- THE CONTRACTOR SHALL EXAMINE THE SITE AND EXISTING CONDITIONS AND MAKE ALLOWANCES IN THE BID FOR ANY CONDITIONS NOT SHOWN ON THE ELECTRICAL DOCUMENTS.
- 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.
- 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.
- ELECTRICAL EQUIPMENT SHALL HAVE AN APPROVED TESTING LABORATORY LABEL ATTACHED (UL, CSA ETC.) PER CEC 110.2.
- ELECTRICAL EQUIPMENT SHALL HAVE A SHORT CIRCUIT CURRENT RATING CAPABLE OF WITHSTANDING THE AVAILABLE SHORT CIRCUIT CURRENT PER CEC 110.4. WHERE SERIES COMBINATION RATINGS ARE USED FOR NEW PANELS, PROVIDE A CAUTIONARY LABEL TO THE SERIES RATED DEVICE COVER STATING "CAUTION - SERIES RATED SYSTEM AMPACITY AVAILABLE" AND IDENTIFY THE COMPONENTS, PER CEC 110.3, 110.22(c), 240.86, AND THE UL RECOGNITION DIRECTORY.
- 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.
- 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.
- PROVIDE A PLACARD ON EACH PANELBOARD INDICATING THE LOCATION AND IDENTIFICATION OF THE FEEDER SERVING THE PANEL PER CEC 408.4(B).
- PROVIDE ILLUMINATED EMERGENCY POWER PER 2016 CFC, SECTION 1006.3. EMERGENCY EGRESS LIGHTING SHALL PROVIDE A MINIMUM LUMINANCE OF 1 FOOTCANDLE AT THE WALKING SURFACE FOR A MINIMUM OF 90 MINUTES.
- 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.
- WIRING FOR 120/208V AND 277/480V SYSTEMS SHALL BE MIN. #12 AWG THHN/THWN-2 COPPER.
- 120V AND 277V BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRALS. SHARING NEUTRALS IS NOT ACCEPTABLE.
- FEEDERS SIZE #4 AND LARGER SHALL BE MEGGER TESTED. TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER.
- ALL UNDERGROUND CONDUITS SHALL HAVE MINIMUM 24" COVER. INSTALL GALVANIZED RIGID STEEL RISERS & ELBOWS WHERE RISERS OCCUR. WRAP GRS BELOW GRADE OR PROVIDE PVC COATED GRS. EXPOSED CONDUIT SHALL BE GRS TO B'-O", THEN ENT ABOVE AS APPROPRIATE. UNDER NO CIRCUMSTANCE SHALL PVC CONDUIT BE INSTALLED ABOVE GRADE.
- CONDUIT INSTALLED ABOVE GRADE SHALL BE MIN. 3/4" TRADE SIZE. CONDUIT BELOW GRADE SHALL BE MIN. 1" TRADE SIZE.
- PROVIDE (4) 1" CONDUIT STUBS FROM EACH NEW ELECTRICAL PANEL TO ACCESSIBLE ATTIC SPACE FOR FUTURE USE.
- COLORS/FINISHES/MATERIALS FOR ALL ELECTRICAL DEVICES, PLATES, LIGHT FIXTURES, ETC. SHALL BE CHOSEN BY THE ARCHITECT.
- PROVIDE PERMANENT LOCK-OPEN DEVICES ON CIRCUIT BREAKERS SERVING ELECTRIC WATER HEATERS TO MEET THE REQUIREMENTS OF CEC 422.31.
- BEFORE AN OCCUPANCY PERMIT IS GRANTED FOR A NEWLY CONSTRUCTED BUILDING OR AREA, OR NEW LIGHTING SERVING A BUILDING, AREA OR SITE IS OPERATED FOR NORMAL USE, ALL INDOOR AND OUTDOOR LIGHTING CONTROLS SERVING THE BUILDING, AREA OR SITE SHALL BE CERTIFIED AS MEETING THE "ACCEPTANCE REQUIREMENTS" FOR CODE COMPLIANCE IN ACCORDANCE WITH SECTION 130.4. A "CERTIFICATE OF ACCEPTANCE" SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY UNDER SECTION 10-103(a) OF PART 1 THRU 7(c).
- AT TIME OF "FINAL INSPECTION", ALL CODE REQUIRED SIGN CONTROLS WILL BE REQUIRED TO HAVE BEEN INSTALLED. REFERENCE SECTION 130.4 OF THE 2016 CALIFORNIA ENERGY CODE.
- THE CALIFORNIA STATE LICENSE BOARD (CSLB) "ZERO TOLERANCE POLICY" IN EFFECT FOR NON-COMPLIANT LABOR CODE SECTIONS 3049 AND 2049.2, SECTIONS 204.0 AND THE AB 931, AS OF JANUARY 2006, ENFORCEMENT OF LEGAL ACTION WILL BE ISSUED TO ANY C-10 CONTRACTOR WHO WILLFULLY EMPLOYS AN "UNCERTIFIED ELECTRICIAN" TO PERFORM ELECTRICAL WORK IN THE STATE OF CALIFORNIA.
- THE GENERAL CONTRACTOR SHALL COORDINATE THE FIRE ALARM SYSTEM INTERFACES BETWEEN THE FIRE ALARM CONTRACTOR, SPRINKLER CONTRACTOR, MECHANICAL CONTRACTOR, AND ANY OTHER PERTINENT TRADES (FIRE ALARM, SPRINKLER SYSTEM, HOOD AND VENT EXHAUSTING SYSTEM, HVAC, FIRE SMOKE DAMPERS, ETC.).
- WHEN A FIRE ALARM SYSTEM IS PRESENT AND THE TOTAL COMBINED CFM FOR ALL HVAC UNITS IN A FIRE COMPARTMENT IS IN EXCESS OF 2000, DETECTION OF SMOKE IN ANY ONE OF THE DUCT DETECTORS SHALL SHUT OFF THE POWER SOURCES TO ALL THE UNITS PER FRESNO FIRE POLICY 401.4.
- SUBMIT TO AND OBTAIN PERMIT FROM THE FIRE PREVENTION DIVISIONS FOR THE INSTALLATION OR MODIFICATION OF THE FIRE ALARM SYSTEM. SEE FPD POLICY 401.02.
- PROVIDE START-UP, TESTING, ADJUSTMENT, AND REPORTING OF BUILDING LIGHTING SYSTEM PER CGBSC 5.410.4.
- ARC-FLASH WARNING SIGNS SHALL BE PROVIDED PER CEC SECTION 110.16.
- FAULT CURRENT SHALL BE CALCULATED AND POSTED PRIOR TO FINAL INSPECTION PER CEC 110.24.

Electrical Symbols

SYMBOL	DESCRIPTION	NOTES
	POLE WITH SINGLE AREA LUMINAIRE	
	POLE WITH DOUBLE AREA LUMINAIRES	
	POLE WITH POST TOP AREA LUMINAIRE	
	FIXTURE TYPE "A"	REFER TO FIXTURE SCHEDULE
	SURFACE CEILING LIGHT	
	RECESSED DOWN LIGHT	
	WALL LIGHT	
	FIXTURE ON EMERGENCY POWER	PROVIDE UNSWITCHED HOT TO BATT PACKS
	EXIT SIGN, CEILING (ARROWS INDICATE CHEVRONS)	PROVIDE UNSWITCHED HOT TO BATT PACKS
	EXIT SIGN, WALL (ARROWS INDICATE CHEVRONS)	PROVIDE UNSWITCHED HOT TO BATT PACKS
	DEDICATED EMERGENCY LIGHT	PROVIDE UNSWITCHED HOT TO BATT PACKS
	INVERTER	
	SWITCH AT +48" AFF TO TOP OF BOX	20A 2TTV QUIET TOGGLE
	3-WAY SWITCH AT +48" AFF TO TOP OF BOX	20A 2TTV QUIET TOGGLE
	DIMMER SWITCH, TO BE COMPATIBLE WITH CONTROLLED FIXTURES, AT +48" AFF TO TOP OF BOX	ROUGH IN WITH 16 BOX PER SWITCH W/ RING, 1" C. TO ACCESSIBLE ATTIC SPACE
	WALL MOUNTED DUAL TECH OCCUPANCY SENSOR SWITCH, 0-10V DIMMING, AT +48" AFF TO TOP OF BOX	ROUGH IN WITH 16 BOX PER SWITCH W/ RING, 1" C. TO ACCESSIBLE ATTIC SPACE
	WALL MOUNTED ULTRASONIC OCCUPANCY SENSOR SWITCH, W SEPARATE EXHAUST FAN RELAY AT +48" AFF TO TOP OF BOX	ROUGH IN WITH 16 BOX PER SWITCH W/ RING, 1" C. TO ACCESSIBLE ATTIC SPACE
	DIGITAL DIMMER SWITCH, AT +48" AFF TO TOP OF BOX	nLIGHT SYSTEM, ROUGH IN WITH 16 BOX & RING, 1" C. TO ACCESSIBLE ATTIC
	DIGITAL DIMMER SWITCH, WIRELESS, LINE VOLTAGE AT +48" AFF TO TOP OF BOX	nLIGHT AIR SYSTEM, ROUGH IN WITH 16 BOX & RING, 120-277V POWERED
	DIGITAL DIMMER SWITCH W INTEGRAL OCCUPANCY SENSOR AND PHOTOSENSOR AT +48" AFF TO TOP OF BOX	nLIGHT SYSTEM, ROUGH IN WITH 16 BOX & RING, 1" C. TO ACCESSIBLE ATTIC
	DIGITAL "FRESCO" GRAPHICAL TOUCHSCREEN DIMMING CONTROLLER AT +48" AFF TO TOP OF BOX	nLIGHT SYSTEM, ROUGH IN WITH 16 BOX & RING, 1" C. TO ACCESSIBLE ATTIC
	DIGITAL OCCUPANCY SENSOR W PHOTOSENSOR DUAL-TECHNOLOGY CEILING MOUNT	nLIGHT SYSTEM #4CM PDT 10
	DIGITAL OCCUPANCY SENSOR W PHOTOSENSOR DUAL-TECHNOLOGY WALL MOUNT	nLIGHT SYSTEM, ROUGH IN WITH 16 BOX & RING, 1" C. TO ACCESSIBLE ATTIC
	WIRELESS DIGITAL OCCUPANCY SENSOR W PHOTOSENSOR, DUAL-TECHNOLOGY CEILING MOUNT	PROVIDE XPOINT SBOR SENSOR INTERFACE
	DIGITAL GATEWAY	nLIGHT SYSTEM, PROVIDE (1) GATEWAY AT EACH BUILDING AND CONNECT TO LAN. PROVIDE BOX/OUTLET AT GATEWAY LOCATION FOR GATEWAY POWER SUPPLY.
	DIGITAL BRIDGE	nLIGHT SYSTEM, PROVIDE (1) BRIDGE FOR EACH (6) nLIGHT ZONES. CONNECT BRIDGE POWER SUPPLY TO LOCAL LIGHTING CIRCUIT.
	DIGITAL XPOINT WIRELESS BRIDGE	INTERFACE WITH nLIGHT SYSTEM GATEWAY
	DIMMING POWER PACK VERIFY 0-10V, 2- OR 3-WIRE, MLV, OR ELV BY FIXTURE	nLIGHT SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING
	DIMMING POWER PACK W EMERGENCY CONTROL RELAY VERIFY 0-10V, 2- OR 3-WIRE, MLV, OR ELV BY FIXTURE	nLIGHT SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING
	DMX CONTROLLER PACK	nLIGHT SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING
	RECEPTACLE RELAY CONTROLLED BY OCCUPANCY SENSOR	nLIGHT SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING. (1) RELAY PER CIRCUIT IN EACH CONTROLLED AREA.
	TERMINAL CABINET	
	DATA OUTLET (RJ-45 CAT6) WITH 2 JACK AT +48" AFF, U.O.N.	4-11/16 SQ. BOX, 16 RING, MODULAR PLATE, & 1 1/2" C. TO ACCESSIBLE ATTIC SPACE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.
	(2) WAP DATA JACKS (RJ-45 CAT6) MOUNTED IN ATTIC SPACE	4-11/16 SQ. BOX, 16 RING, MODULAR PLATE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END.
	(2) WAP DATA JACKS (RJ-45 CAT6) AT +48" AFF, U.O.N.	4-11/16 SQ. BOX, 16 RING, MODULAR PLATE, & 1 1/2" C. TO ACCESSIBLE ATTIC SPACE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.
	WALL MOUNT VOIP OUTLET (RJ-45 CAT6) AT +48" AFF, U.O.N.	4-11/16 SQ. BOX, 16 RING, MODULAR PLATE, & 1 1/2" C. TO ACCESSIBLE ATTIC SPACE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.
	WALL MOUNT DATA/COMM OUTLET AT +48" AFF, U.O.N.	4-11/16 SQ. BOX, 16 RING, MODULAR PLATE, & 1 1/2" C. TO ACCESSIBLE ATTIC SPACE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.
	"MAIN DISTRIBUTION FRAME"	
	"INTERMEDIATE DISTRIBUTION FRAME"	

SYMBOL	DESCRIPTION	NOTES
	SWITCHBOARD	REFER TO POWER SINGLE LINE DIAGRAM
	POWER PANEL	REFER TO PANEL SCHEDULE
	JUNCTION BOX	4-11/16" SQUARE BOX & COVER PLATE MIN.
	DISCONNECT SWITCH, FUSIBLE	REFER TO MECH. PLANS & SPECS.
	MOTOR CONTROLLER/DISCONNECT SWITCH	REFER TO MECH. PLANS & SPECS.
	MOTOR	REFER TO MECH. PLANS & SPECS.
	EXHAUST FAN, CEILING MOUNTED	REFER TO MECH. PLANS & SPECS.
	SINGLE CONVENIENCE OUTLET AT +48" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED
	DUPLEX CONVENIENCE OUTLET AT +48" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED
	QUADPLEX CONVENIENCE OUTLET AT +48" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED
	DUPLEX GFI CONVENIENCE OUTLET AT +48" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED LEVITON #XT8949-W
	QUADPLEX GFI CONVENIENCE OUTLET AT +48" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED LEVITON #XT8949-W
	WEATHERPROOF, GFI OUTLET AT +48" AFF TO BOTTOM OF BOX, U.O.N. W/ WEATHERPROOF IN-USE TYPE COVER	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED LEVITON #XT8949-W
	DUPLEX CONVENIENCE OUTLET AT +48" AFF TO BOTTOM OF BOX, U.O.N. SPLIT-WIRED WITH UNSWITCHED AND SWITCHED BY OCCUPANCY SENSOR	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED, LEVITON #TR20-SIM CODE COMPLIANT MARKING REQUIRED
	QUADPLEX CONVENIENCE OUTLET, CONTROLLED AT +48" AFF TO BOTTOM OF BOX, U.O.N. ONE UNSWITCHED AND ONE SWITCHED BY OCCUPANCY SENSOR	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED, LEVITON #TR20-W AND LEVITON #TR20-S2M CODE COMPLIANT MARKING REQUIRED
	HEAVY DUTY POWER PEDESTAL	SEE DETAIL
	SPECIAL EQUIPMENT OUTLET AT +48" AFF TO BOTTOM OF BOX, U.O.N.	VERIFY REQ'TS W/ EQUIPMENT VENDOR
	26 FLOOR BOX WITH POWER FEED COVER	MAKE CONNECTION TO MODULAR FURNITURE SYSTEM WITH #6 GREEN GROUND WIRE TO G.E.C.
	12" CU GROUND BUS BAR	PROVIDE 120V F.A. CIRCUIT TO DAMPER VIA F.A. RELAY.
	FIRE/SMOKE DAMPER	HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK
	PUBLIC ADDRESS SPEAKER, CEILING MOUNTED	RUN 1" C. TO ACCESSIBLE ATTIC SPACE AND HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK
	PUBLIC ADDRESS SPEAKER WALL MOUNTED, +48" U.O.N.	RUN 1" C. TO ACCESSIBLE ATTIC SPACE AND HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK
	W/ OUTDOOR PUBLIC ADDRESS SPEAKER, WALL MOUNTED, +48" U.O.N.	INTERIOR: 16 J-BOX, 16 RING, MODULAR PLATE, 3/4" C. TO ACCESSIBLE ATTIC SPACE. EXTERIOR: 16 FLUSH BELL BOX, MODULAR PLATE, 3/4" C. TO ACCESSIBLE ATTIC SPACE. PROVIDE (1) CAT6 CABLE AND DATA JACK TO EACH CAMERA PROVISION. VERIFY EXACT REQUIREMENTS PRIOR TO ROUGH-IN.
	SURVEILLANCE (CCTV) CAMERA PROVISION, WALL MOUNTED. VERIFY HEIGHTS AT EACH LOCATION. C-CEILING MOUNTED.	
	RECESSED TV BOX WITH POWER OUTLET, (2) DATA JACKS, HDMI AND CATV JACKS. VERIFY HEIGHT/LOCATION PRIOR TO ROUGH-IN.	MAKE POWER CONNECTION AND PROVIDE 1 1/2" C. STUB TO EXPOSED CABLE SPACE NEAR ROOF. VERIFY HEIGHTS W/ ARCH.
	A/V INPUT HDMI/6A/3.5MM AUDIO/USB JACK WALL PLATE AT +48" AFF	26 BOX, 16 RING, (2) 1 1/4" C. TO ATTIC SPACE. INSTALL CABLES FROM STATION TO TV.
	DEVICES TO BE REMOVED	
	EXISTING CONDUIT/WIRINGS TO BE DEMOLISHED	
	EXISTING DEVICES	
	EXISTING CONDUIT/WIRINGS	
	WIRING IN CONDUIT, BELOW GRADE	3/4" CONDUIT MIN.
	WIRING IN CONDUIT, IN WALL OR CEILING	3/4" CONDUIT MIN.
	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.
	HOME RUN (TO PANEL "A", CIRCUIT "15")	3/4" CONDUIT MIN.
	"EXISTING"	
	"UNLESS OTHERWISE NOTED"	
	"WEATHERPROOF" / NEMA 3R	
	"GROUND FAULT INTERRUPTER"	

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Project:
Fresno County Environmental Compliance Center Office / Storage Building
 Project Address: 310 S. West Avenue, Fresno CA 93706
 APN: 458-060-72
 Issue Date:
 Project No: T90203
 File Path: G:\Capital \ Projects \ Building Numbers \ American Ave Landfill \ T90203 Environmental Compliance Center\ 00 2018 ECC

Sheet Content:
 Electrical Notes and Symbols

Fresno County Department of Public Works and Planning
 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No.
E1.1

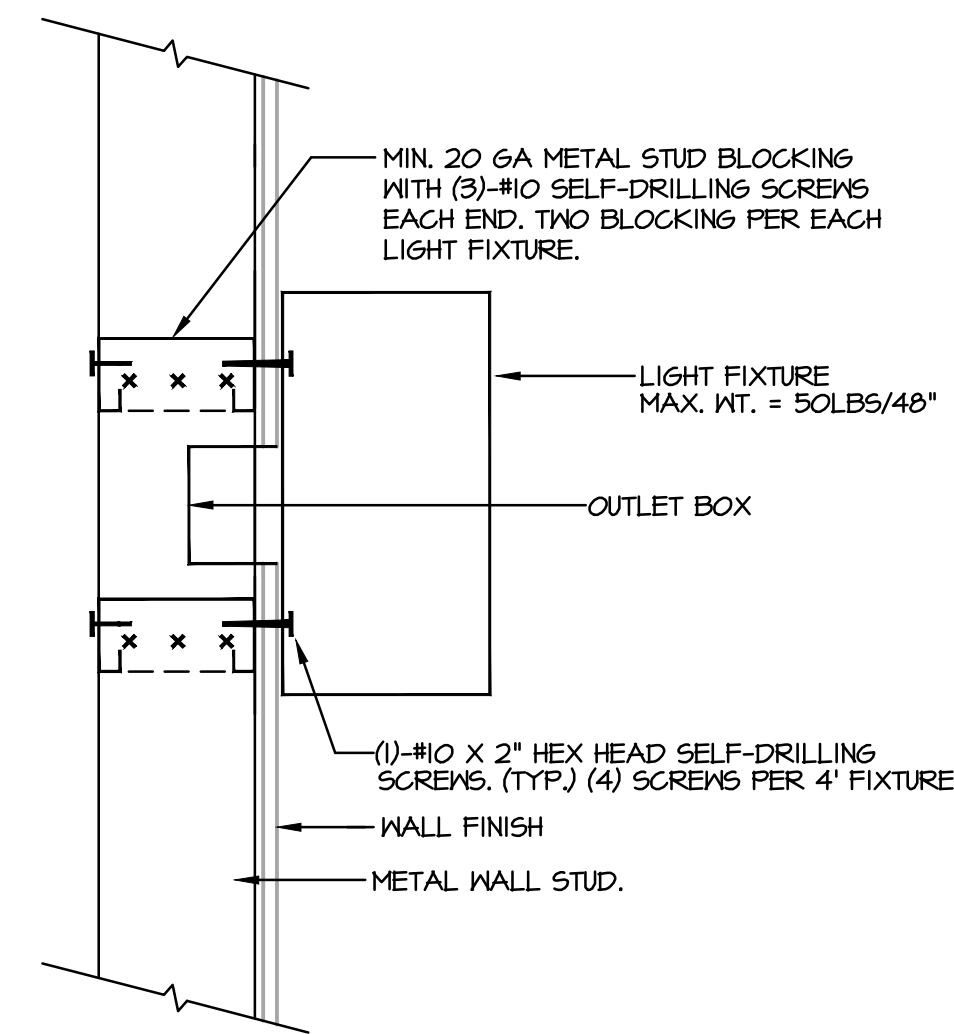
Bid Addendum 2 5-21-2021	Plan Review Corrections 5-21-2021
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TYPE	MANUFACTURER	CATALOG NO.	LAMPING	WATTS	VOLTS	MOUNTING	REMARK
A	LITHONIA	EPANL 2x2 4000LMHE 80CRI 35K MIN10 NLIGHT MVOLT	LED	32.9	120	RECESSED	SEE DETAIL C4/E2.1
B	LUMINAIRE	CLF11 4FT AL MIN10 40W 35K MVOLT OP GRY	LED	40.0	120	SURFACE	SEE DETAIL A4/E2.1
C	LITHONIA	ZL1D L48 SMR 3000LM FST MVOLT 35K 80CRI WH HC36	LED	30.0	120	CHAIN	
CS	LITHONIA	ZL1D L48 SMR 3000LM FST MVOLT 35K 80CRI WH HC36	LED	30.0	120	CHAIN	
DS	LITHONIA	ZL1D L24 SMR 3000LM FST MVOLT 35K 80CRI WH HC36	LED	17.0	120	CHAIN	
P	LUMINAIRE	SWP1212 MIN10 25W 40K MVOLT OP GRY	LED	25.0	120	WALL	

G1 Light Fixture Schedule

Scale: None

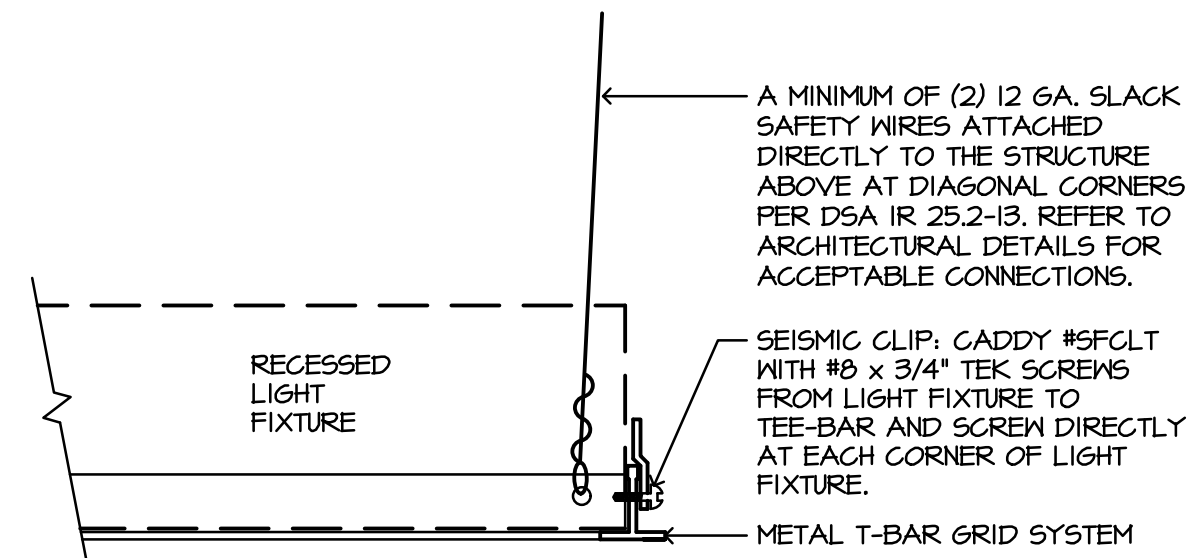
HEAVY DUTY GRID SYSTEM			
MAX. LIGHT FIXTURE DIMENSION	WEIGHT	NO. OF HANGER WIRES	TYPE
< 24" x 48"	< 56 LBS	2	SLACK
> 24" x 48"	> 56 LBS	4	TAUT



NOTE:
BOTTOM OF FIXTURE TO BE MIN. OF 80" AFF IF PROTRUDE MORE THAN 4" FROM FACE OF WALL (CBC 11B-307.2)

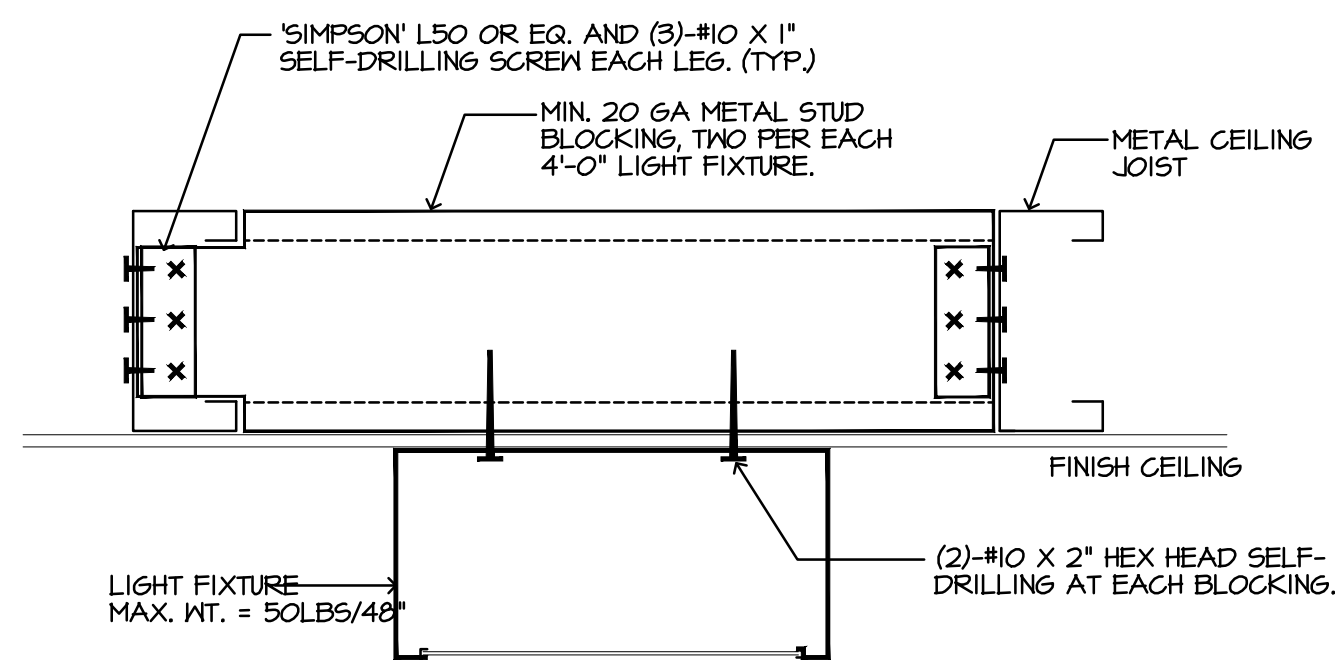
A1 Fixture Wall Mounting Detail

Scale: None



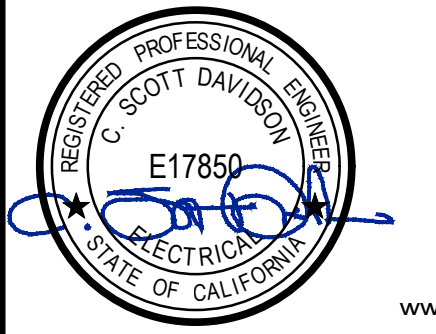
C4 Fixture T-Bar Mounting Detail

Scale: None

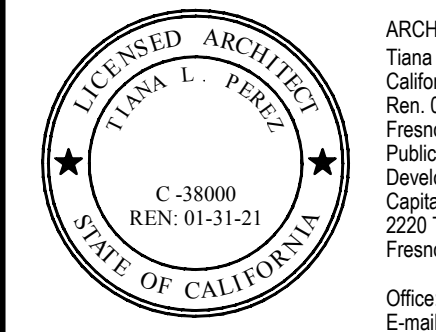


A4 Fixture Surface Mounting Detail

Scale: None



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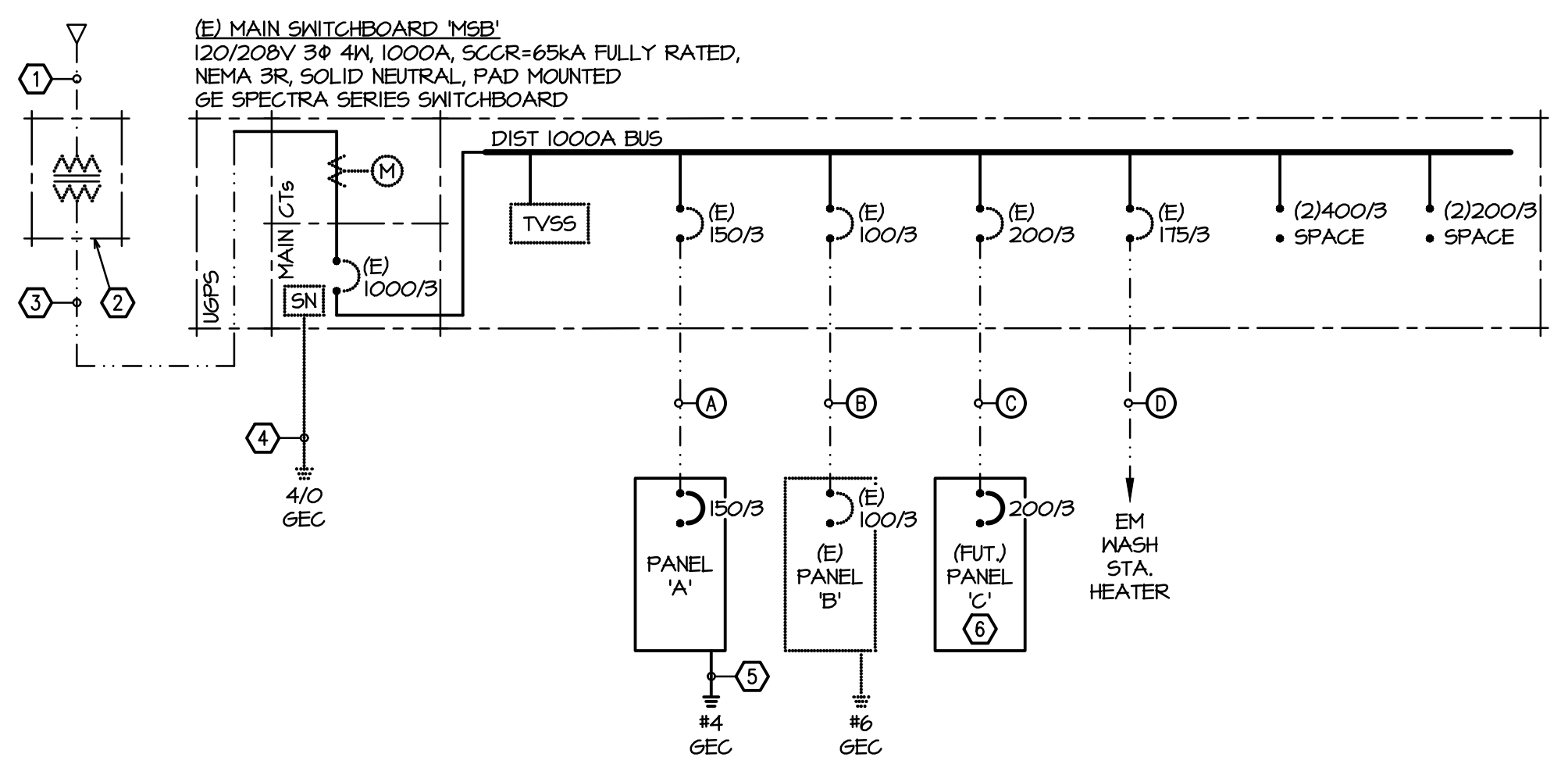
Project:
Fresno County
Environmental Compliance Center
Office / Storage Building
Project Address: 310 S. West Avenue, Fresno CA 93706
APN: 458-060-72
Issue Date:
Project No. T90203
File Path: G:Capital \ Projects \ Building Numbers \ American
Ave Landfill \ T90203 Environmental Compliance Center\ 00
2018 ECC

Sheet Content:
Lighting Schedules and Details

Fresno County Department of
Public Works and Planning
Capital Projects
2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.
E1.2

▲ Bid Addendum 2 5-21-2021	▲ Plan Review Corrections 5-21-2021
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LINE DIAGRAM KEY NOTES

- (E) 4" UTILITY PRIMARY PER RULE 16 DOCS.
- (E) UTILITY TRANSFORMER & CONCRETE PAD PER RULE 16 DOCS.
- (B) 5" UTILITY SECONDARY PER P&E PER RULE 16 DOCS.
- (E) SERVICE GROUNDING ELECTRODE CONDUCTOR.
- GROUNDING ELECTRODE CONDUCTOR TO UFER, STRUCTURAL STEEL, METAL WATER PIPE, AND FIRE SPRINKLER RISER.
- PANEL SHOWN FOR REFERENCE ONLY. DO NOT INCLUDE IN BID.

FEEDERS

- (E) 2-1/2" C, 4#1/0, 1#6G.
- (E) 2" C, 4#1, 1#6G.
- (E) 3" C, 4#4/0, 1#6G.
- (E) 2" C, 3#2/0, 1#6G.

J1 Power Single Line Diagram

Scale: None

No.	Feeder Origin	Feeder Destination	Potential at Origin (P _i) (Volts)	System	Design Current (Amps)	Raceway Type	Sets of Cond.	Conductor Trade Size	Conductor Cross-Sectional Area (CM)	Conductor Material	DC Conductor Material Constant (K)	Q	Distance (ft)	Voltage Drop (VD) (Volts)	Potential at Load (P _L) (Volts)	Percent Voltage Drop (%VD)
1	MSB	Panel 'A'	208	AC 3-Phase	150	PVC	1	1/0	105600	CU	12.9	0.9836	35	1.09	206.91	0.53
2	MSB	Panel 'B'	208	AC 3-Phase	100	PVC	1	1	83690	CU	12.9	0.9740	125	3.25	204.75	1.56
3	MSB	Panel 'C'	208	AC 3-Phase	200	PVC	1	4/0	211600	CU	12.9	1.0197	135	2.91	205.09	1.40
4	Panel 'A'	Farthest #12 outlet	120	AC 1-Phase	16	Steel	1	12	6530	CU	12.9	1.0101	75	4.79	115.21	3.99
5	Panel 'A'	Farthest #10 outlet	120	AC 1-Phase	16	Steel	1	10	10380	CU	12.9	0.9677	125	4.81	115.19	4.01
6	Panel 'B'	Farthest A/C Unit	208	AC 3-Phase	30	Steel	1	6	26240	CU	12.9	0.9980	45	1.15	206.85	0.55

Definitions

VD = Voltage Drop (Volts)
 K = DC Conductor Material Constant (12.9 for Copper, 21.2 for Aluminum)
 Q = AC Adjustment Factor for conductors sized #2/0 AWG and larger (R_{ac} / R_{dc})
 I = Current (Amps)
 D = Distance to Load (ft)
 CM = Conductor Cross-Sectional Area (Circular Mils)
 P = Potential (Volts)

Formulae

VD (single phase or DC) = 2 x K x Q x I x D / CM
 VD (three phase) = √3 x K x Q x I x D / CM
 %VD = VD / P_i x 100

E1 Voltage Drop Calculations

Scale: None

PANEL "A" SCHEDULE

CKT. NO.	DESCRIPTION	BREAKER		VA	Φ	VA	BREAKER		DESCRIPTION	CKT. NO.
		AMPS	POLE(S)				AMPS	POLE(S)		
1	LIGHTING CONTROL PANEL	15	1	150	A	1000	20	1	OUTLETS - BACKBOARD	2
3	LIGHTS - INTERIOR	15	1	319	B	1000	20	1	OUTLETS - BACKBOARD	4
5	LIGHTS - EXTERIOR	15	2	125	C	1000	20	1	* FIRE SPRINKLER SYSTEM	6
7	LIGHTS - SITE POLES (208V)	15	2	229	A	1000	20	1	OUTLETS - BACKBOARD	8
9	-----	--	--	229	B	540	20	1	OUTLETS - OFFICE	10
11	SPARE	15	1		C	720	20	1	OUTLETS - OFFICE	12
13	SPARE	20	1		A	540	20	1	OUTLETS - OFFICE	14
15	SPARE	20	1		B	720	20	1	OUTLETS - STORAGE	16
17	SPARE	20	1		C	540	20	1	OUTLETS - EXTERIOR, NE RESTROOM	18
19	AIR CONDITIONER ODU-1 / IDU-1	50	2	3120	A	360	20	1	OUTLETS - EXTERIOR, NW RESTROOM	20
21	-----	--	--	3120	B	2000	20	1	HAND DRYER - NE RESTROOM	22
23	AIR CONDITIONER ODU-2 / IDU-2	15	2	936	C	3000	30	1	** WATER HEATER - NE RESTROOM	24
25	-----	--	--	936	A	2000	20	1	HAND DRYER - NW RESTROOM	26
27	EXHAUST FAN EF-2	15	1	696	B	3000	30	1	** WATER HEATER - NW RESTROOM	28
29	SPACE ONLY				C	360	20	1	OUTLETS - HAZMAT CONTAINER	30
31	SPACE ONLY				A	20	1		SPARE	32
33	SPACE ONLY				B	20	1		SPARE	34
35	SPACE ONLY				C	20	1		SPARE	36
37	SPACE ONLY				A	20	1		SPARE	38
39	SPACE ONLY				B	20	1		SPARE	40
41	SPACE ONLY				C	20	1		SPARE	42

LOAD SUMMARY: Φ A 9335 VA, Φ B 11624 VA, Φ C 6681 VA, 27.6 kVA
 CONNECTED LOAD: 97 A
 BUSING: 200A MAIN: 150A
 NOTES: * PROVIDE RED LOCK-ON DEVICE FOR F.A. CKTS. ** PROVIDE LOCK-OUT DEVICE FOR SERVICE

PANEL "B" SCHEDULE

CKT. NO.	DESCRIPTION	BREAKER		VA	Φ	VA	BREAKER		DESCRIPTION	CKT. NO.
		AMPS	POLE(S)				AMPS	POLE(S)		
1	CANOPY LIGHTS	15	1	736	A	1176	20	1	LIQUID RECOVERY TANK	2
3	SPARE	15	1		B	500	20	1	NORTH SEA TRAIN	4
5	SPARE	20	1		C	500	20	1	SOUTH SEA TRAIN	6
7	OUTLETS - CANOPY	20	1	360	A	500	15	1	N. LIFT GATE	8
9	OUTLETS - CANOPY	20	1	360	B	500	15	1	S. LIFT GATE	10
11	OUTLETS - CANOPY	20	1	360	C	20	1		SPARE	12
13	OUTLETS - TERMINAL CABINET	15	1	360	A	20	1		SPARE	14
15	SPARE	20	1		B	20	1		SPARE	16
17	SPARE	20	1		C	20	1		SPARE	18
19	SPACE ONLY				A				SPACE ONLY	20
21	SPACE ONLY				B				SPACE ONLY	22
23	SPACE ONLY				C				SPACE ONLY	24
25	SPACE ONLY				A				SPACE ONLY	26
27	SPACE ONLY				B				SPACE ONLY	28
29	SPACE ONLY				C				SPACE ONLY	30

LOAD SUMMARY: Φ A 3132 VA, Φ B 1360 VA, Φ C 860 VA, 5.4 kVA
 CONNECTED LOAD: 26 A
 BUSING: 100A MAIN: 100A
 PANEL "B" SCHEDULE FOR REFERENCE ONLY. NOT INCLUDED IN BID.

PANEL "C" SCHEDULE

CKT. NO.	DESCRIPTION	BREAKER		VA	Φ	VA	BREAKER		DESCRIPTION	CKT. NO.
		AMPS	POLE(S)				AMPS	POLE(S)		
1	LIGHTING CONTROL PANEL	15	1	150	A	500	20	1	OUTLETS - BACKBOARD	2
3	LIGHTS - INTERIOR	20	1		B	500	20	1	OUTLETS - BACKBOARD	4
5	LIGHTS - EXTERIOR	15	1		C	1000	20	1	OUTLETS - BACKBOARD	6
7	MARQUEE SIGN	15	1		A	360	20	1	OUTLETS - INTERIOR	8
9	SPACE ONLY				B	360	20	1	OUTLETS - INTERIOR	10
11	SPACE ONLY				C	360	20	1	OUTLETS - INTERIOR	12
13	ROLL-UP DOOR MOTOR	15	3	444	A	360	20	1	OUTLETS - INTERIOR	14
15	-----	--	--	444	B	500	20	1	* FIRE SPRINKLER SYSTEM	16
17	-----	--	--	444	C	20	1		SPARE	18
19	ROLL-UP DOOR MOTOR	15	3	444	A	20	1		SPARE	20
21	-----	--	--	444	B	20	1		SPARE	22
23	-----	--	--	444	C	20	1		SPARE	24
25	ROLL-UP DOOR MOTOR	15	3	444	A	4800	50	3	OUTLET - FORKLIFT CHARGER	26
27	-----	--	--	444	B	4800	--	--	-----	28
29	-----	--	--	444	C	4800	--	--	-----	30
31	EXHAUST FAN EF-1	20	1	1176	A				SPACE ONLY	32
33	SPACE ONLY				B				SPACE ONLY	34
35	SPACE ONLY				C				SPACE ONLY	36
37	SPACE ONLY				A				SPACE ONLY	38
39	SPACE ONLY				B				SPACE ONLY	40
41	SPACE ONLY				C				SPACE ONLY	42

LOAD SUMMARY: Φ A 8678 VA, Φ B 7492 VA, Φ C 7492 VA, 23.7 kVA
 CONNECTED LOAD: 72 A
 BUSING: 200A MAIN: 200A
 NOTES: * PROVIDE RED LOCK-ON DEVICE FOR F.A. CKTS.
 PANEL "C" SCHEDULE FOR REFERENCE ONLY. NOT INCLUDED IN BID.



Hardin-Davidson Engineering
 356 Pollasky Ave., Suite 200
 Clovis, CA 93612
 559.323.4995 tel
 www.hardin-davidson.com



ARCHITECT:
 Tiana L. Perez, Architect
 California Licensed Architect No. C-38000
 Ren. 01-31-21
 Fresno County Department of Public Works & Planning
 Development Services and Capital Projects Division
 2220 Tulare Street, Eighth Floor
 Fresno, California 93721
 Office: (559) 600-4536
 E-mail: tperez@fresnocountyca.gov

Project:
 Fresno County Environmental Compliance Center Office / Storage Building
 Project Address: 310 S. West Avenue, Fresno CA 93706
 APN: 458-060-72
 Issue Date:
 Project No.: T90203
 File Path: G:\Capital\Projects\Building Numbers\1 American Ave Landfill\T90203 Environmental Compliance Center\00 2018 ECC

Sheet Content:
 Power Details and Schedules

Fresno County Department of Public Works and Planning
 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No. E1.3

▲ Bid Addendum 2 5-21-2021	▲ Plan Review Corrections 5-21-2021
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A10 Panel Schedules

Scale: None

STATE OF CALIFORNIA Electrical Power Distribution Electrical Power Distribution... CERTIFICATE OF COMPLIANCE... Project Name: Environmental Compliance Center Office/Storage Building... Project Address: 310 S. West Ave. Date Prepared: 7/20/2020... A. GENERAL INFORMATION... B. PROJECT SCOPE... C. COMPLIANCE RESULTS... Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance... Report Version: 2019.1.003... Report Generated: 2020-07-20 11:42:08

STATE OF CALIFORNIA Electrical Power Distribution Electrical Power Distribution... CERTIFICATE OF COMPLIANCE... Project Name: Environmental Compliance Center Office/Storage Building... Project Address: 310 S. West Ave. Date Prepared: 7/20/2020... D. EXCEPTIONAL CONDITIONS... E. ADDITIONAL REMARKS... F. SERVICE ELECTRICAL METRING... G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING... H. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES... I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION... Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance... Report Version: 2019.1.003... Report Generated: 2020-07-20 11:42:08

STATE OF CALIFORNIA Electrical Power Distribution Electrical Power Distribution... CERTIFICATE OF COMPLIANCE... Project Name: Environmental Compliance Center Office/Storage Building... Project Address: 310 S. West Ave. Date Prepared: 7/20/2020... H. VOLTAGE DROP... I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES... J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION... Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance... Report Version: 2019.1.003... Report Generated: 2020-07-20 11:42:08

STATE OF CALIFORNIA Electrical Power Distribution Electrical Power Distribution... CERTIFICATE OF COMPLIANCE... Project Name: Environmental Compliance Center Office/Storage Building... Project Address: 310 S. West Ave. Date Prepared: 7/20/2020... K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE... Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance... Report Version: 2019.1.003... Report Generated: 2020-07-20 11:42:08

STATE OF CALIFORNIA Electrical Power Distribution Electrical Power Distribution... CERTIFICATE OF COMPLIANCE... Project Name: Environmental Compliance Center Office/Storage Building... Project Address: 310 S. West Ave. Date Prepared: 7/20/2020... DOCUMENTATION AUTHOR'S DECLARATION STATEMENT... RESPONSIBLE PERSON'S DECLARATION STATEMENT... Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance... Report Version: 2019.1.003... Report Generated: 2020-07-20 11:42:08

STATE OF CALIFORNIA Indoor Lighting Indoor Lighting... CERTIFICATE OF COMPLIANCE... Project Name: Environmental Compliance Center Office/Storage Building... Project Address: 310 S. West Ave. Date Prepared: 7/20/2020... A. GENERAL INFORMATION... B. PROJECT SCOPE... C. COMPLIANCE RESULTS... D. EXCEPTIONAL CONDITIONS... E. ADDITIONAL REMARKS... F. INDOOR LIGHTING FIXTURE SCHEDULE... G. MODULAR LIGHTING SYSTEMS... H. INDOOR LIGHTING CONTROLS (Not including PAFs)... Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance... Report Version: 2019.1.003... Report Generated: 2020-07-20 11:42:08

STATE OF CALIFORNIA Indoor Lighting Indoor Lighting... CERTIFICATE OF COMPLIANCE... Project Name: Environmental Compliance Center Office/Storage Building... Project Address: 310 S. West Ave. Date Prepared: 7/20/2020... C. COMPLIANCE RESULTS... D. EXCEPTIONAL CONDITIONS... E. ADDITIONAL REMARKS... F. INDOOR LIGHTING FIXTURE SCHEDULE... G. MODULAR LIGHTING SYSTEMS... H. INDOOR LIGHTING CONTROLS (Not including PAFs)... Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance... Report Version: 2019.1.003... Report Generated: 2020-07-20 11:42:08

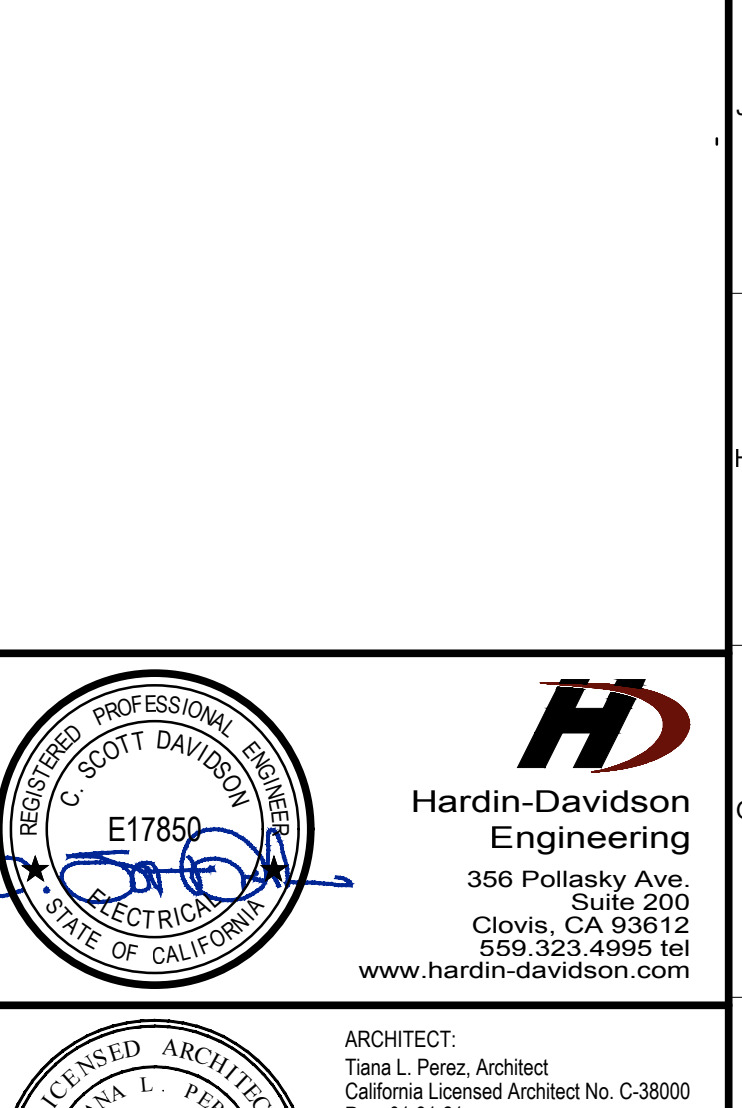
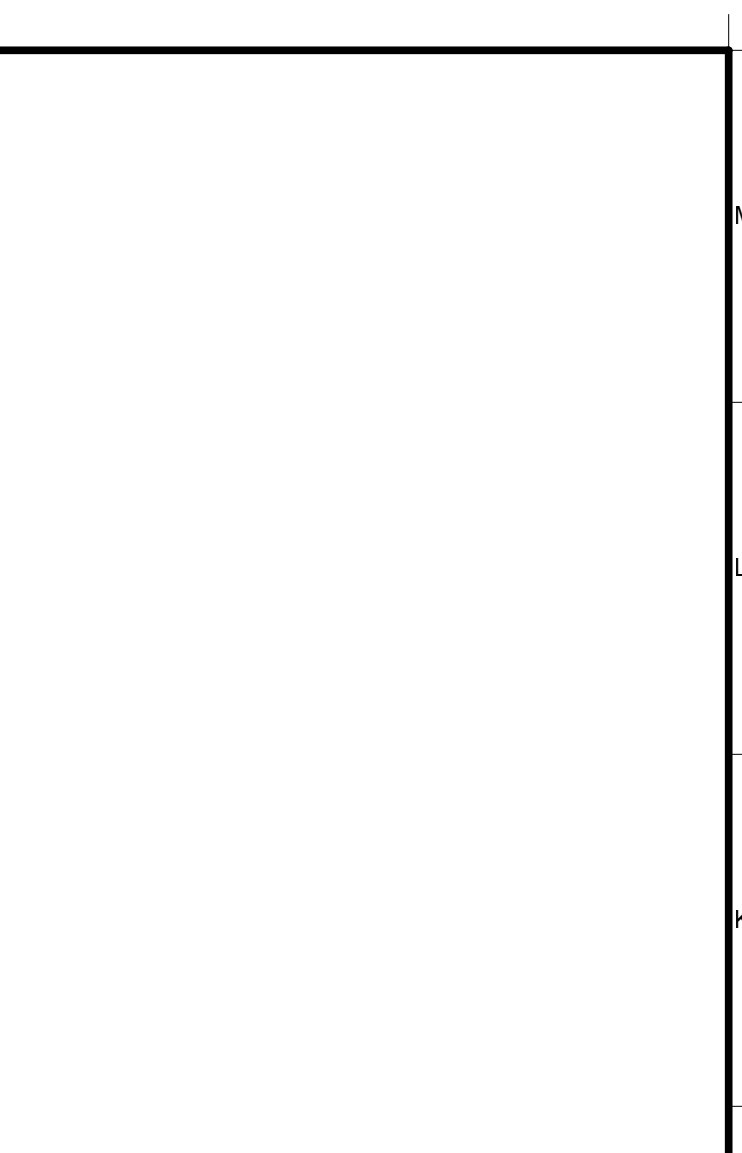
STATE OF CALIFORNIA Indoor Lighting Indoor Lighting... CERTIFICATE OF COMPLIANCE... Project Name: Environmental Compliance Center Office/Storage Building... Project Address: 310 S. West Ave. Date Prepared: 7/20/2020... F. INDOOR LIGHTING FIXTURE SCHEDULE... G. MODULAR LIGHTING SYSTEMS... H. INDOOR LIGHTING CONTROLS (Not including PAFs)... Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance... Report Version: 2019.1.003... Report Generated: 2020-07-20 11:42:08

STATE OF CALIFORNIA Indoor Lighting Indoor Lighting... CERTIFICATE OF COMPLIANCE... Project Name: Environmental Compliance Center Office/Storage Building... Project Address: 310 S. West Ave. Date Prepared: 7/20/2020... H. INDOOR LIGHTING CONTROLS (Not including PAFs)... I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS... J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM... K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE... L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY... M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING... N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS... O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE... P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))... Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS... R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS... Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance... Report Version: 2019.1.003... Report Generated: 2020-07-20 11:42:08

STATE OF CALIFORNIA Indoor Lighting Indoor Lighting... CERTIFICATE OF COMPLIANCE... Project Name: Environmental Compliance Center Office/Storage Building... Project Address: 310 S. West Ave. Date Prepared: 7/20/2020... I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS... J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM... K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE... L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY... M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING... N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS... O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE... P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))... Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS... R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS... Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance... Report Version: 2019.1.003... Report Generated: 2020-07-20 11:42:08

STATE OF CALIFORNIA Indoor Lighting Indoor Lighting... CERTIFICATE OF COMPLIANCE... Project Name: Environmental Compliance Center Office/Storage Building... Project Address: 310 S. West Ave. Date Prepared: 7/20/2020... S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)... T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION... U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE... Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance... Report Version: 2019.1.003... Report Generated: 2020-07-20 11:42:08

STATE OF CALIFORNIA Indoor Lighting Indoor Lighting... CERTIFICATE OF COMPLIANCE... Project Name: Environmental Compliance Center Office/Storage Building... Project Address: 310 S. West Ave. Date Prepared: 7/20/2020... DOCUMENTATION AUTHOR'S DECLARATION STATEMENT... RESPONSIBLE PERSON'S DECLARATION STATEMENT... Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance... Report Version: 2019.1.003... Report Generated: 2020-07-20 11:42:08



Project: Fresno County Environmental Compliance Center Office / Storage Building
Project Address: 310 S. West Avenue, Fresno CA 93706
Issue Date: Project No. 179023
File Path: G:\Capital Projects\Building Numbers\American Ave Landfill\179023 Environmental Compliance Center 00 2018 ECC
Sheet Content: Title 24 Compliance Documents

Fresno County Department of Public Works and Planning Capital Projects
2220 Tulare Street, 8th Floor
Fresno, California 93721
Sheet No. E1.4
Bid Addendum 2 5-21-2021
Plan Review Corrections 5-21-2021

> File: 20558 - Elec-Ph2 Office.dwg - Plotted: 5/21/2021 4:38 PM

STATE OF CALIFORNIA
Outdoor Lighting
 NRC-LTD-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRC-LTD-E
 Project Name: Environmental Compliance Center Office/Storage Building Report Page: Page 1 of 7
 Project Address: 310 S. West Ave. Date Prepared: 7/20/2020

A. GENERAL INFORMATION

01 Project Location (City) Fresno 04 Total Illuminated Hardscape Area (ft²) 1435
 02 Climate Zone 13
 03 Outdoor Lighting Zone per Title 24 Part 1 §10.116 or as designated by Authority Having Jurisdiction (AHJ):
 L2-0: Very Low - Undeveloped Parkland L2-2: Moderate - Rural Areas L2-4: High - Must be reviewed by CA Energy Commission for Approval
 L2-1: Low - Developed Parkland L2-3: Moderately High - Urban Areas

B. PROJECT SCOPE
 This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.002(a) for alterations.
 My Project Consists of:
 New Lighting System Must Comply with Allowances from §140.7
 Altered Lighting System Is your alteration increasing the connected lighting load (Watts)? Yes No
 03 % of Existing Luminaires Being Altered? 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.
 FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
 Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
 Registration Provider: Energsoft
 Report Generated: 2020-07-20 11:42:08

STATE OF CALIFORNIA
Outdoor Lighting
 NRC-LTD-E CALIFORNIA ENERGY COMMISSION

C. COMPLIANCE RESULTS
 Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D, Exceptional Conditions for guidance or see applicable Table reference below.

Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.002(a)						Compliance Results		
01	02	03	04	05	06	07	08	09
General Hardscape Allowance §140.7(a)(1) (See Table I)	Per Application Allowance §140.7(a)(2) (See Table J)	Sales Frontage Allowance §140.7(a)(3) (See Table K)	Ornamental Allowance §140.7(a)(4) (See Table L)	Per Specific Area Allowance §140.7(a)(5) (See Table M)	Existing Power Allowance §141.002(a) (See Table N)	Total Allowed (Watts)	Total Actual (Watts)	07 must be >= 08
431.88	---	---	---	---	---	431.88	125	COMPLIES

Cutoff Compliance (See Table G for Details) COMPLIES
 Controls Compliance (See Table H for Details) COMPLIES

D. EXCEPTIONAL CONDITIONS
 This table is auto-filled with applicable 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.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
 Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
 Registration Provider: Energsoft
 Report Generated: 2020-07-20 11:42:08

STATE OF CALIFORNIA
Outdoor Lighting
 NRC-LTD-E CALIFORNIA ENERGY COMMISSION

F. OUTDOOR LIGHTING FIXTURE SCHEDULE
 For new or altered lighting systems demonstrating compliance with §140.7, all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the table below. For altered lighting systems using the Existing Power method per §141.002(a), only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (i.e., existing luminaires remaining or existing luminaires being moved are not included).
 Designated 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 luminaires¹ Luminaire Status² Excluded per §140.7(a) Design Watts Cutoff Req. > 6,200 initial (lumen output) §130.2(a) Field Inspector
 P 25.0w LED Wall Light Linear CEC Default 5 New 125 NA < 6,200 lumens
 Total Design Watts: 125

*NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
 (E) Luminaire is lighting a canopy, EXCEPT for 2 to §140.2(b).
 (F) FOOTNOTES: Authority having jurisdiction may use for luminaire cut sheets to confirm wattage used for compliance per §130.2(c).
 (G) For linear luminaires, wattage should be indicated as W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.
 (H) 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 to be Replaced" for existing luminaires which are being removed and replaced as part of the project scope.
 (I) Compliance with mandatory cutoff requirements is required for luminaires with initial lumens output >= 6,200 unless exempted by §130.2(b).

G. CUTOFF REQUIREMENTS (BUS)
 This section does not apply to this project.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
 Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
 Registration Provider: Energsoft
 Report Generated: 2020-07-20 11:42:08

STATE OF CALIFORNIA
Outdoor Lighting
 NRC-LTD-E CALIFORNIA ENERGY COMMISSION

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 (in unaltered) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
 When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.

Mandatory Controls				
01	02	03	04	05
Area Description	Shut Off §130.2(c)(1)	Auto-Schedule §130.2(c)(2)	Motion Sensor §130.2(c)(3)	Field Inspector
Bldg. Exterior	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Pass <input checked="" type="checkbox"/> Fail <input type="checkbox"/>
	Astronomical Timer	Yes	NA; Facade, etc. <=24 ft	<input type="checkbox"/> <input type="checkbox"/>

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
 (E) Not permitted by health & safety as to control off. EXCEPT for §130.2(d).

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
 Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
 Registration Provider: Energsoft
 Report Generated: 2020-07-20 11:42:08

STATE OF CALIFORNIA
Outdoor Lighting
 NRC-LTD-E CALIFORNIA ENERGY COMMISSION

I. LIGHTING POWER ALLOWANCE (per §140.7)
 This table includes areas using allowance calculations per §140.7, General Hardscape Allowance is per Table 140.7.2 while "Use it or lose it" Allowance is per Table 140.7.2-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.
 Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (L2-0, 1 & 4)
 This section does not apply to this project.
 Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (L2-2 & 3)

03	04	05	06	07	08	9	10
Area Description	Surface Type	Illuminated Area (ft²)	Area Wattage Allowance (AWA) Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (ft)	Allowed Density (W/ft)	Linear Allowance (Watts)
Walkway	Asphalt	1435	0.03	35.875	184	0.4	46
Initial Wattage Allowance for Entire Site (Watts):							350
Total General Hardscape Allowance (Watts):							431.875

J. LIGHTING ALLOWANCE: PER APPLICATION
 This section does not apply to this project.

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.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
 Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
 Registration Provider: Energsoft
 Report Generated: 2020-07-20 11:42:08

STATE OF CALIFORNIA
Outdoor Lighting
 NRC-LTD-E CALIFORNIA ENERGY COMMISSION

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)
 This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
 Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks: These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/hits24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRC/

Yes	No	Form/Title	Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-LTD-01-E - Must be submitted for all buildings	Pass <input checked="" type="checkbox"/> Fail <input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-LTD-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	<input type="checkbox"/> <input type="checkbox"/>

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
 Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks: These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/hits24/gettcp/providers.html>

Yes	No	Form/Title	Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-LTD-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
 Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
 Registration Provider: Energsoft
 Report Generated: 2020-07-20 11:42:08

STATE OF CALIFORNIA
Outdoor Lighting
 NRC-LTD-E CALIFORNIA ENERGY COMMISSION

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: C. Scott Davidson
 Signature Date: 7/17/20
 Company: Hardin-Davidson Engineering
 Address: 356 Pollasky Ave., Suite 200
 City/State/Zip: Clovis CA 93612
 Phone: 559-323-4995

RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I verify 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 1 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 manufacturer devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of the 2019 Title 24 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: C. Scott Davidson
 Signature Date: 2020-07-20
 Company: Hardin-Davidson Engineering
 Address: 356 Pollasky Ave., Suite 200
 City/State/Zip: Clovis CA 93612
 Phone: 559 323-4995

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
 Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
 Registration Provider: Energsoft
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STATE OF CALIFORNIA
Outdoor Lighting
 NRC-LTD-E CALIFORNIA ENERGY COMMISSION

REGISTERED PROFESSIONAL ENGINEER
 C. SCOTT DAVIDSON
 E17850
 STATE OF CALIFORNIA
 ELECTRICAL

HARDIN-DAVIDSON ENGINEERING
 356 Pollasky Ave., Suite 200
 Clovis, CA 93612
 559.323.4995 tel
 www.hardin-davidson.com

ARCHITECT:
 Tiana L. Perez, Architect
 California Licensed Architect No. C-38000
 Fresno County Department of Public Works & Planning
 Development Services and Capital Projects Division
 2220 Tulare Street, Eighth Floor
 Fresno, California 93721
 Office: (559) 600-4536
 E-mail: tperez@fresnocountyca.gov

Project:
 Fresno County
 Environmental Compliance Center
 Office / Storage Building
 Project Address: 310 S. West Avenue, Fresno CA 93706
 APN: 458-060-72
 Issue Date:
 Project No: T90203
 File Path: G:\Capital \ Projects \ Building Numbers \ American Ave Landfill \ T90203 Environmental Compliance Center\ 00 2018 ECC

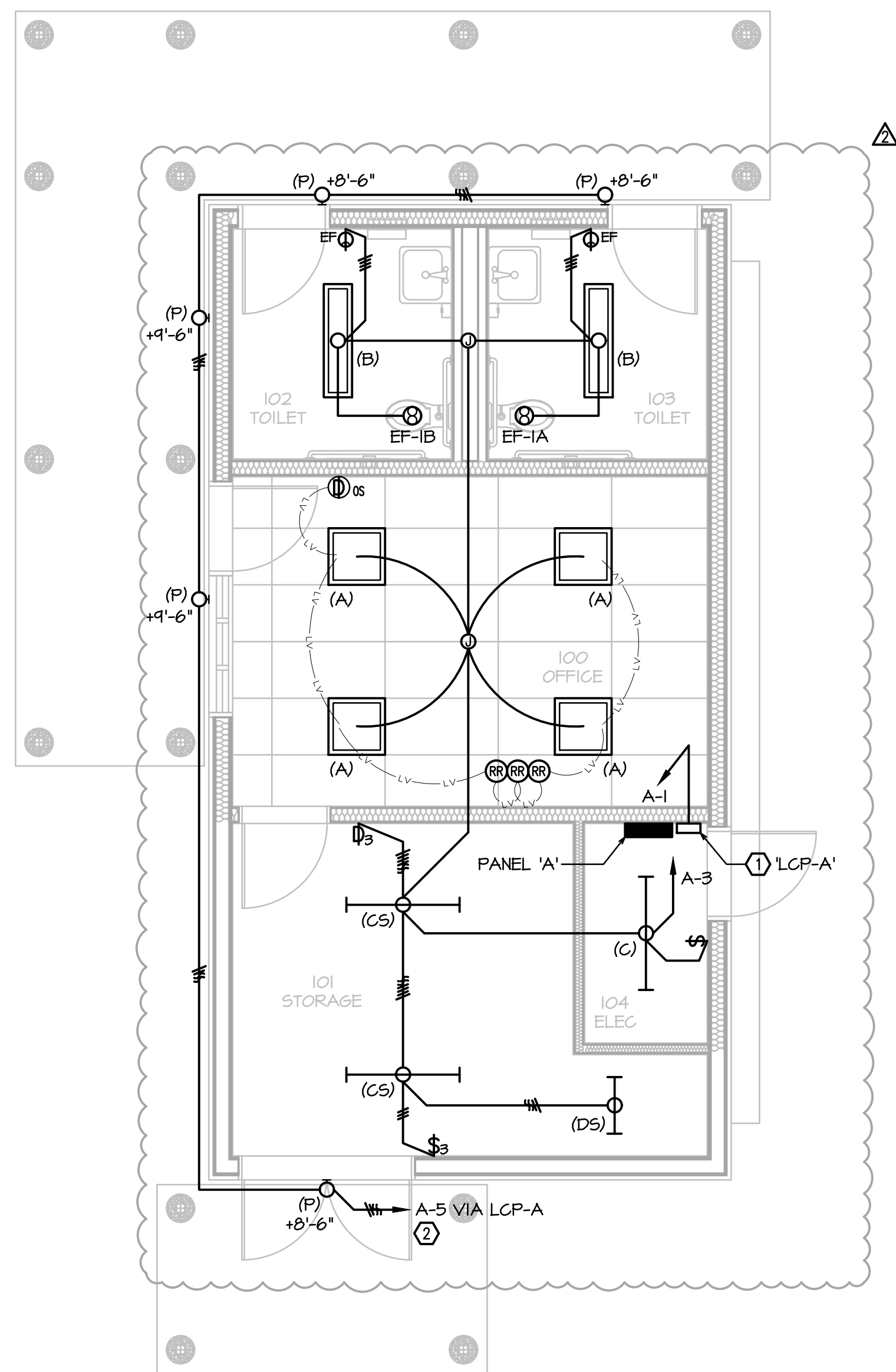
Sheet Content:
 Title 24 Compliance Documents

Fresno County Department of Public Works and Planning
 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

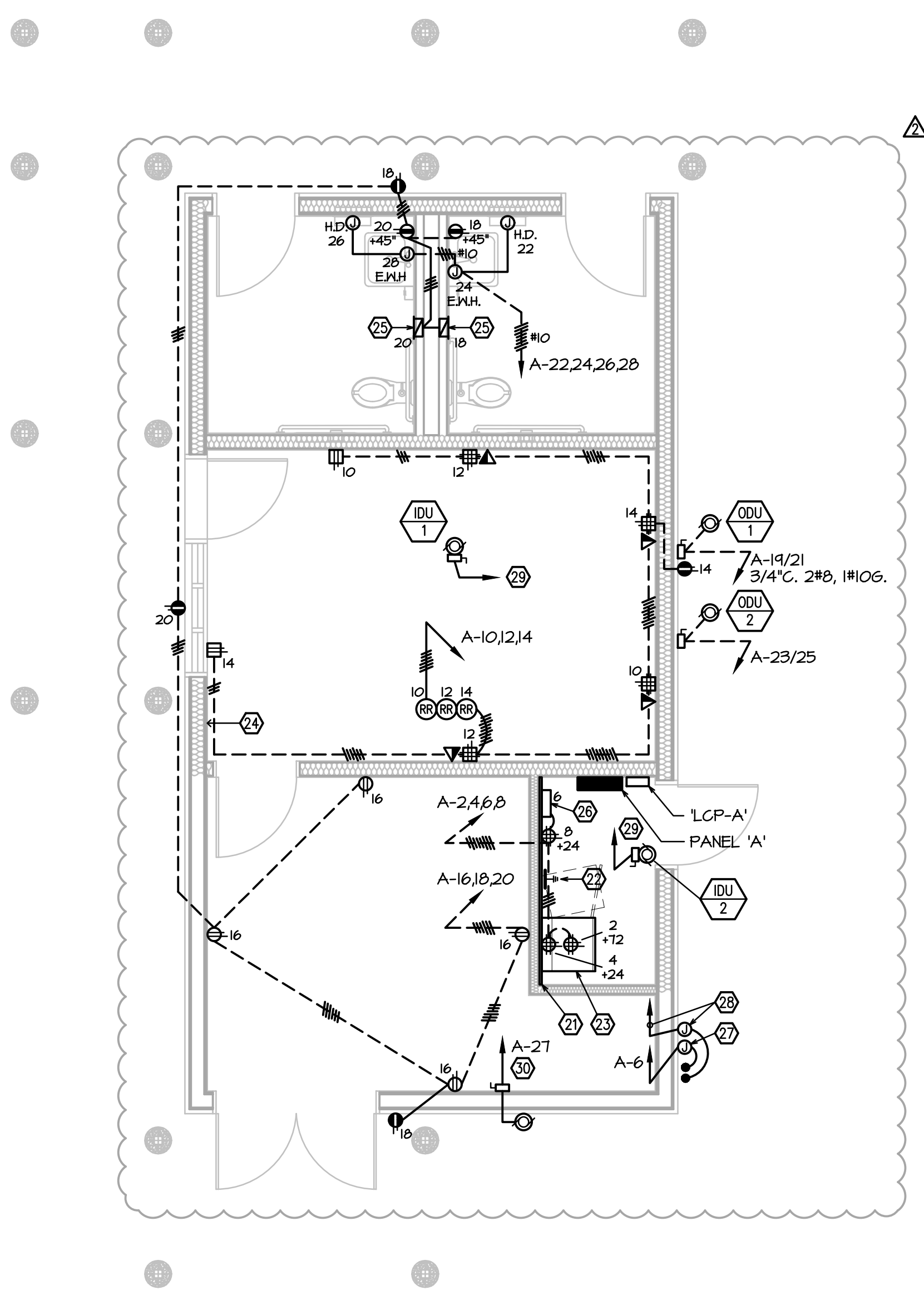
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Bid Addendum 2 5-21-2021	Plan Review Corrections 5-21-2021
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A1 Lighting Plan
Scale: 1/4" = 1'-0"



A8 Power and Low Voltage Plan
Scale: 1/4" = 1'-0"

KEYNOTES

1. LIGHTING CONTROL PANEL; LITHONIA ALIGHT ARP PANEL MOUNT ADJACENT TO POWER PANEL. CONNECT EXTERIOR LIGHTING POWER AND DIMMING CONDUCTORS.
2. PROVIDE VIOLET & GRAY 0-10V DIMMING CONDUCTORS ALONG WITH POWER CONDUCTORS.
3. 3/4" x 8 FT. HIGH FIRE RESISTANT FLYMOOD BACKBOARD. INSTALL OUTLETS AT 24" AFF AND 12" AFF WHERE SHOWN. MOUNT UTILITY MPECE, DATA, VOICE, INTRUSION, SPRINKLER MONITOR, AND LEAK DETECTION PANELS AT THIS BOARD.
22. PROVIDE 12" COPPER COMMUNICATION BUS BAR ON STAND-OFFS. RUN #6 GREEN GROUND WIRE TO MAIN PANEL GEC.
23. NETWORK ELECTRONICS CABINET.
24. MOUNT ANNUNCIATORS FOR LEAK DETECTION EQUIPMENT AT THIS HALL.
25. PROVIDE STEEL CABINET WITH HINGED DOOR AND MOUNT FLUSH IN HALL. 4" BELOW CEILING. HAMMOND RHPF1004, OR SIMILAR. INSTALL FUSING AND VALVE TRANSFORMER AT INTERIOR. AND CONNECT LOW VOLTAGE CABLE TO SINK AND FLUSH VALVES.
26. SPRINKLER MONITOR PANEL AND LITE DIALER. PROVIDE 120V DEDICATED CIRCUIT AND INSTALL RED LOCK-ON DEVICE ON CIRCUIT BREAKER. CONNECT FRY TAMPER, RISER TAMPER, AND RISER FLOW SWITCHES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRODUCING DRAWINGS, CALCULATIONS, AND GUT SHEETS AND SUBMITTING THOSE TO THE AHJ TO OBTAIN PERMITS FOR THE SPRINKLER MONITOR SYSTEM. THE CONTRACTOR SHALL INCLUDE IN BID ALL WORK REQUIRED FOR THIS SYSTEM.
27. 1P J-BOX FOR FIRE SPRINKLER RISER BELL. CONNECT TO FLOW SWITCH AND RISER BELL ON NOTED POWER.
28. 1P J-BOX FOR FIRE SPRINKLER RISER TAMPER AND FLOW SWITCHES. RUN 3/4" C. TO SPRINKLER RISER PANEL.
29. CHASE DOWN HALL AND HOME RUN TO RESPECTIVE OUTDOOR UNIT FOR POWER PER MFGOR.
30. HOMERUN VIA CONTROLS PER MECHANICAL DRAWINGS.



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Project:
 Fresno County
 Environmental Compliance Center
 Office / Storage Building
 Project Address: 310 S. West Avenue, Fresno CA 93706
 APN: 458-060-72
 Issue Date:
 Project No: T90203
 File Path: G:Capital \ Projects \ Building Numbers \ American
 Ave Landfill \ T90203 Environmental Compliance Center \ 00
 2018 ECC

Sheet Content:
 Office/Storage Building
 Electrical Plans



Sheet No.
E2.1

▲ Bid Addendum 2 5-21-2021	▲ Plan Review Corrections 5-21-2021
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