

# CULINARY LAB VENTURE ACADEMY

## 2829 TRANSWORLD DRIVE

### STOCKTON, CA 95206

#### ABBREVIATIONS

& L @ Ø ∅ # ∩ R	And Angle At Centerline Diameter Perpendicular Pound or Number Plate	E (E)EXST. EA. E.J. EL. ELEC. EMER. ENCL. EQ. EQPT. E.W.C. EXP. EXT.	East Existing Each Expansion Joint Elevation Electrical Emergency Enclosure Equal Equipment Electric Water Cooler Expansion Exterior	K.P. KIT.	Kickplate Kitchen	S. S.D.	South Soap Dispenser
A.C. ACOUS. A.D. ADJ. A.F.F. AGGR ALUM./AL. ARCH. ASPH. AUTO. A.V.	Asphalt Concrete Acoustical Area Drain Adjustable Above Finished Floor Aggregate Aluminum Architectural Asphalt Automatic Auto Visual	F.A. F.B. F.D. FDN. F.E. F.F.E. F.H.M.B. F.H.M.S. FIN. FL F.L. FLASHG F.O.C. F.O.F. F.O.S. F.R.P. F.S. FT. FTG. FURR. FUT.	Fire Alarm Fiberboard Floor Drain Foundation Fire Extinguisher Finish Floor Elevation Flat Head Machine Bolt Flat Head Machine Screw Finish Floor Fusible Link Flashing Face of Concrete/Curb Face of Finish Face of Studs Fiberglass Reinforced Plastic Full Size Foot/Foot Footing Furring Future	MAX. M.B. MAT'L MECH. MEMB. MEZZ. MFR. MH. MIN. MIR. MISC. MTD. MET.	Maximum Machine Bolt Material Mechanical Membrane Mezzanine Manufacturer Manhole Minimum Mirror Miscellaneous Mounted Metal	M. M.B. MAT'L MECH. MEMB. MEZZ. MFR. MH. MIN. MIR. MISC. MTD. MET.	Machine Bolt Material Mechanical Membrane Mezzanine Manufacturer Manhole Minimum Mirror Miscellaneous Mounted Metal
CAB. C.B. BLKG. BM. BOT. B.S.	Cabinet Catch Basin Chalkboard Beam Bottom Both Sides	GA. GALV. G.B. GL. GND. GR. GYP. G.I. G.S.M. GYP. GYP.BD.	Gauge Galvanized Grab Bar Glass/Glazing Ground Grade Gypsum Galvanized Iron Galvanized Sheet Metal Gypsum Gypsum Board	PRCST. PERF. P.LAM. PLAS. PLYWD. P.M. P.M.F. PR. P.O.T. PRE-FAB PROJ. P.T.D. P.T.D./R. PTN. P.T.R.	Precast Perforated Plastic Laminate Plaster Plywood Pressed Metal Pressed Metal Frame Pair Path of Travel Prefabricated Project Paper Towel Dispenser Paper Towel Dispenser Receptacle Partition Paper Towel Receptacle	R. RAD. R.B. R.D. R.E. REFR. RGTR. REINF. REQ. RET. RM. R.O. RWD. R.W.L. R.H.W.S.	Riser Radius Rubber Base Roof Drain Rim Elevation Refrigerator Register Reinforced Required Return Room Rough Opening Redwood Rain Water Leader Round Head Wood Screw
CAB. C.B. BLKG. BM. BOT. B.S.	Cabinet Catch Basin Chalkboard Beam Bottom Both Sides	GA. GALV. G.B. GL. GND. GR. GYP. G.I. G.S.M. GYP. GYP.BD.	Gauge Galvanized Grab Bar Glass/Glazing Ground Grade Gypsum Galvanized Iron Galvanized Sheet Metal Gypsum Gypsum Board	PRCST. PERF. P.LAM. PLAS. PLYWD. P.M. P.M.F. PR. P.O.T. PRE-FAB PROJ. P.T.D. P.T.D./R. PTN. P.T.R.	Precast Perforated Plastic Laminate Plaster Plywood Pressed Metal Pressed Metal Frame Pair Path of Travel Prefabricated Project Paper Towel Dispenser Paper Towel Dispenser Receptacle Partition Paper Towel Receptacle	R. RAD. R.B. R.D. R.E. REFR. RGTR. REINF. REQ. RET. RM. R.O. RWD. R.W.L. R.H.W.S.	Riser Radius Rubber Base Roof Drain Rim Elevation Refrigerator Register Reinforced Required Return Room Rough Opening Redwood Rain Water Leader Round Head Wood Screw

#### MATERIAL LEGEND

	EARTH		WOOD TRIM
	GRAVEL/AGGREGATE BASE		STEEL
	SAND OR PLASTER		TILE
	CONCRETE		BATT INSULATION
	BLOCKING		BRICK
	FRAMING (CONTINUOUS)		GYPSON BOARD
	PLYWOOD		FIRTEX

#### APPLICABLE CODES

CONTRACTOR SHALL KEEP A COPY OF TITLE 24, PARTS 1-5 ON THE SITE AT ALL TIMES. TITLE 24, PART 1, SECTION 4.317(c):

**NOTES:**

- ALL NEW WORK SHALL CONFORM TO THE 2022 EDITION, TITLE 24, CALIFORNIA CODE OF REGULATIONS.
- CHANGES TO THE STRUCTURAL, ACCESSIBILITY OR FIRE AND LIFE SAFETY PORTIONS OF THE APPROVED PLANS AND SPECIFICATIONS AFTER THE WORK HAS BEEN APPROVED SHALL BE MADE BY A CONSTRUCTION CHANGE DOCUMENT
- A CERTIFIED INSPECTOR WILL BE PROVIDED BY OWNER TO INSPECT THIS PROJECT
- A REQUIRED TESTING LABORATORY DIRECTLY EMPLOYED BY THE OWNER SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- GRADING PLANS, DRAINAGE IMPROVEMENT, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS  
 TITLE 24 CCR, PART 1 - 2022 BUILDING STANDARDS ADMINISTRATIVE CODE  
 TITLE 24 CCR, PART 2 - 2022 CALIFORNIA BUILDING CODE, VOL. 1 & 2 (CBC)  
 TITLE 24 CCR, PART 3 - 2022 CALIFORNIA ELECTRICAL CODE (CEC)  
 TITLE 24 CCR, PART 4 - 2022 CALIFORNIA MECHANICAL CODE (CMC)  
 TITLE 24 CCR, PART 5 - 2022 CALIFORNIA PLUMBING CODE (CPC)  
 TITLE 24 CCR, PART 6 - 2022 CALIFORNIA ENERGY CODE (CEC)  
 TITLE 24 CCR, PART 9 - 2022 CALIFORNIA FIRE CODE (CFC)  
 TITLE 24 CCR, PART 11 - 2022 CALIFORNIA GREEN BUILDING STDS CODE  
 TITLE 24 CCR, PART 12 - 2022 CALIFORNIA REFERENCED STANDARDS  
 2022 NFPA 13, INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED)  
 2014 NFPA 14, INSTALLATION OF STANDPIPE AND HOSE SYSTEMS  
 2021 NFPA 17, DRY CHEMICAL EXTINGUISHING SYSTEMS  
 2021 NFPA 17A, WET CHEMICAL EXTINGUISHING SYSTEMS  
 2019 NFPA 20, INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION  
 2019 NFPA 24, INSTALLATION OF PRIVATE FIRE SERVICE MAINS  
 2022 NFPA 72, NATIONAL FIRE ALARM CODE (CA AMENDED)  
 2019 NFPA 80, FIRE DOOR AND OTHER OPENING PROTECTIVE  
 2015 NFPA 720, INSTALLATION OF CARBON MONOXIDE DETECTION AND WARNING EQUIPMENT  
 2018 NFPA 2001, CLEAN AGENT FIRE EXTINGUISHING SYSTEMS

#### SYMBOL LEGEND

**SHEET NUMBERING SYSTEM**

Discipline Designation  
Drawing Type Designation  
Sheet Number

**ROOM NAME and NUMBER REFERENCE**

WOMEN  
A103  
32 OCC

**KEYNOTE REFERENCE**

2200.A7.05

**SHEET/DEMO NOTE REFERENCE**

SN.01

**DETAIL REFERENCE**

X  
XXXX

**BUILDING SECTION REFERENCE**

X  
XXXX

**STOREFRONT, WINDOW OR LOUVER REFERENCE**

X  
XXXX

**DOOR REFERENCE**

A101

**CEILING TYPE REFERENCE**

C2

**WALL TYPE REFERENCE**

C2

**EXTERIOR FINISH REFERENCE**

A

**PAINT COLOR REFERENCE**

PC1

**STRUCTURAL GRID INDICATOR**  
(Center of Framing)

(A)

**STRUCTURAL GRID INDICATOR**  
(Face of Framing)

3

**MATCH LINE**

-----

**CENTERLINE**

-----

**PROPERTYLINE**

-----

**WORK POINT, CONTROL POINT OR DATUM**

◆

**INTERIOR ELEVATION REFERENCE**

INTERIOR ELEVATION

DETAIL NUMBER

4.5 1.5  
4 2  
A5.1.A  
3.5 2.5

SHEET NUMBER

**WINDOW (PLAN VIEW)**

-----

**REVISION**

Revision Number

**RADIUS**

Radius Point Number

R=92'-4" (1)

Radius Dimension

**CASEWORK REFERENCE**

221A L - Indicates all drawers and doors to have locks installed

**METAL SHELVING REFERENCE**

MS1

**LABORATORY CASEWORK REFERENCE**

99

**MUSIC CASEWORK REFERENCE**

99

**ACOUSTICAL PANEL REFERENCE**

AP1

**SIGN REFERENCE**

S2

**OCCUPANCY REFERENCE**

28 Occ - Number of Occupants Existing  
36 - Min. Exit Width Required (Inches)

**OWNER**  
SAN JOAQUIN COUNTY OFFICE OF EDUCATION  
OPERATIONS & SUPPORT SERVICES  
2707 TRANSWORLD DRIVE  
STOCKTON, CA 95206  
CONTACT: TIM SUTTON  
PHONE: (209) 406-7229  
EMAIL: [tsutton@sicoe.net](mailto:tsutton@sicoe.net)

**CIVIL**  
ROBERT A KARN & ASSOCIATES, INC.  
707 BECK AVENUE  
FAIRFIELD, CA 94533  
CONTACT: TONY PERFETTO  
EMAIL: (916) 396-6656  
[iperfetto@rakenengineers.com](mailto:iperfetto@rakenengineers.com)

**FOOD SERVICE**  
AMD FOODSERVICE DESIGN  
P.O. BOX 163  
GARDEN VALLEY, CA 95633  
CONTACT: PATRICK JONES  
(916) 804-9393  
EMAIL: [patrick@amdfoodservicedesign.com](mailto:patrick@amdfoodservicedesign.com)

**ARCHITECT**  
HENRY + ASSOCIATES ARCHITECTS  
730 HOWE AVE, SUITE 450  
SACRAMENTO, CA 95825  
CONTACT: STEPHEN HENRY  
PHONE: (916) 799-3027  
EMAIL: [stephen@henry-architects.com](mailto:stephen@henry-architects.com)

**STRUCTURAL**  
GREG RICHARDS, SE  
RW CONSULTING ENGINEERS, INC.  
1450 HARBOR BLVD., SUITE F  
WEST SACRAMENTO, CA 95691  
CONTACT: GREG RICHARDS  
PHONE: (916) 716-6910  
EMAIL: [grichards@rwengineers.com](mailto:grichards@rwengineers.com)

**MECHANICAL**  
CAPITAL ENGINEERING CONSULTANTS, INC.  
11020 SUN CENTER DRIVE, SUITE 100  
RANCHO CORDOVA, CA 95670  
CONTACT: MIKE MINGE  
PHONE: (916) 851-3500  
EMAIL: [mminge@capital-engineering.com](mailto:mminge@capital-engineering.com)

**ELECTRICAL**  
M. NEILS ENGINEERING, INC.  
100 HOWE AVENUE, SUITE 235N  
SACRAMENTO, CA 95825  
CONTACT: SINISHA GLUSIC  
EMAIL: (916) 923-4400  
EMAIL: [sglusic@mneilsengineering.com](mailto:sglusic@mneilsengineering.com)

**PROJECT DESCRIPTION**

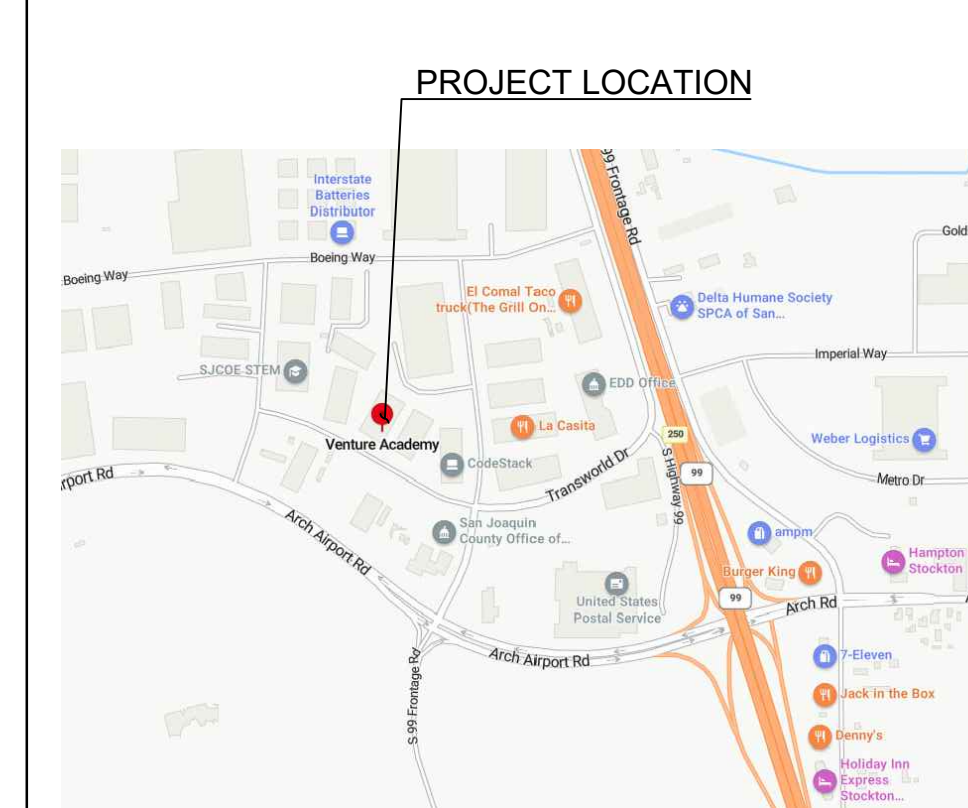
UNDER A SINGLE CONTRACT CONSTRUCT THE CULINARY LAB VENTURE ACADEMY PROJECT. SCOPE OF WORK INCLUDES ALL WORK NECESSARY FOR A COMPLETE TURNKEY PROJECT, INCLUDING BUT NOT LIMITED TO DEMOLITION, SITE SEWER AND GREASE TRAP, PAVING, PLUMBING, MECHANICAL, ELECTRICAL, FRAMING, CONCRETE, ROOFING, FOOD SERVICE EQUIPMENT, FINISH WORK, ETC.

**DEFERRED APPROVALS**

NOTE: THE FOLLOWING DRAWINGS REQUIRE A SEPARATE SUBMITTAL AND PERMIT FROM THE STOCKTON FIRE DEPARTMENT. THE CONTRACTOR IS RESPONSIBLE FOR THE SUBMITTAL AND APPROVAL OF THE STOCKTON FIRE DEPARTMENT. APPLICATION FEES WILL BE REIMBURSED AT COST WITH NO CONTRACTOR MARK-UP:

- FIRE SUPPRESSION SYSTEMS (HOOD AND DUCT): PLANS AND SPECIFICATIONS PREPARED BY C-16 LICENSED CONTRACTOR MUST BE SUBMITTED TO STOCKTON FIRE DEPARTMENT FOR REVIEW AND APPROVAL.
- FIRE SPRINKLER TENANT IMPROVEMENTS: PLANS AND SPECIFICATIONS PREPARED BY C-16 LICENSED CONTRACTOR FOR FIRE SPRINKLER TENANT IMPROVEMENTS MUST BE SUBMITTED TO STOCKTON FIRE DEPARTMENT FOR REVIEW AND APPROVAL.
- FIRE ALARM SYSTEM ALTERATIONS: FIRE ALARM MODIFICATION PLANS AND SPECIFICATION PREPARED BY C-10 LICENSED CONTRACTOR MUST BE SUBMITTED TO STOCKTON FIRE DEPARTMENT FOR REVIEW AND APPROVAL.

**VICINITY MAP**  
VENTURE ACADEMY  
2829 TRANSWORLD DRIVE  
STOCKTON, CA 95206



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CS COVER SHEET

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 A0.2 TYPICAL DETAILS  
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 A2.1.2 ENLARGED DEMO & FLOOR PLAN  
 A2.1.3 REFLECTED CEILING PLAN  
 A2.1.4 ROOF DEMOLITION PLAN & ROOF PLAN  
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 A2.1.6 ENLARGED PLANS - MULTIPURPOSE  
 A3.1.1 DOOR SCHEDULE & DETAILS  
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 A8.3.3 SUSPENDED LAY-IN PANEL CEILING DETAILS  
 A8.3.4 SUSPENDED LAY-IN PANEL CEILING DETAILS  
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 S3.2 ENLARGED EQUIPMENT FRAMING PLANS  
 S4.1 DETAILS  
 S4.2 KITCHEN HOOD BRACING PLAN & ELEVATIONS

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 M4.1.1 MECHANICAL SECTION  
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 P2.1.2 PLUMBING BELOW SLAB PLAN  
 P2.1.3 PLUMBING FLOOR PLAN  
 P2.1.4 PLUMBING ROOF PLAN  
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 E210.1 PARTIAL FLOOR PLANS - LIGHTING, ELECTRICAL  
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 E400 FIRE ALARM DIAGRAMS, MATRIX  
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 S0.2 TYPICAL STRUCTURAL NOTES & DETAILS  
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 S3.1 ENLARGED PARTIAL FOUNDATION PLAN AND ENLARGED PARTIAL ROOF FRAMING PLAN  
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**MECHANICAL**

M.01 MECHANICAL LEGENDS AND NOTES  
 M.02 MECHANICAL SCHEDULES  
 M2.1.1 MECHANICAL DEMOLITION FLOOR PLAN  
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**PLUMBING**

P0.1 PLUMBING LEGENDS AND NOTES  
 P0.2 PLUMBING SCHEDULES  
 P2.1.1 PLUMBING DEMOLITION FLOOR PLAN  
 P2.1.2 PLUMBING BELOW SLAB PLAN  
 P2.1.3 PLUMBING FLOOR PLAN  
 P2.1.4 PLUMBING ROOF PLAN  
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**FIRE SPRINKLER**

FP0.1 FIRE SPRINKLER NOTES, DETAILS  
 FP2.1.1 FIRE SPRINKLER FLOOR PLAN (STOCKTON FIRE DEPARTMENT APPROVED)

**ELECTRICAL**

E001 COVER SHEET ELECTRICAL  
 E100 SITE PLAN ELECTRICAL  
 E200 DEMOLITION ELECTRICAL  
 E200.1 DEMOLITION ELECTRICAL  
 E210 PARTIAL FLOOR PLANS - LIGHTING, ELECTRICAL  
 E210.1 PARTIAL FLOOR PLANS - LIGHTING, ELECTRICAL  
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 E620 TITLE 24 INDOOR LIGHTING MANDATORY MEASURES

**FOOD SERVICE**

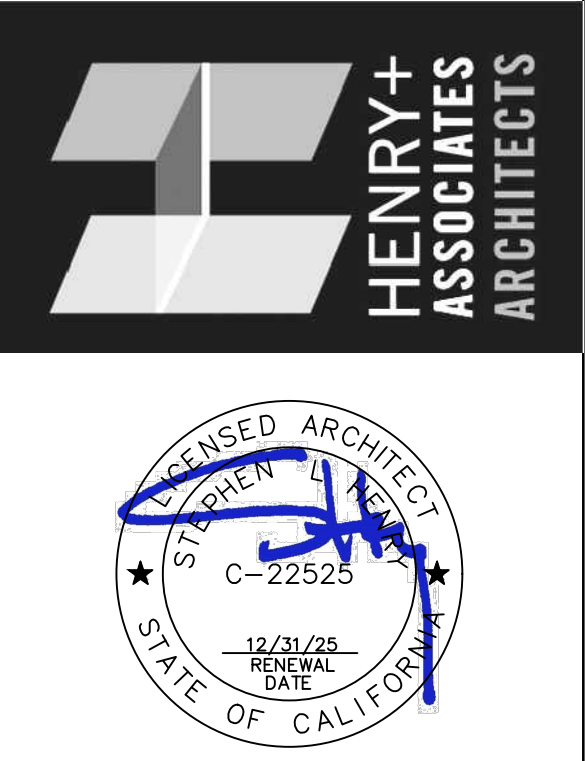
FS1.1 FOODSERVICE EQUIPMENT FLOOR PLAN  
 FS2.1 FOODSERVICE EQUIPMENT PLUMBING PLAN  
 FS3.1 FOODSERVICE EQUIPMENT ELECTRICAL PLAN  
 FS4.1 FOODSERVICE EQUIPMENT MECHANICAL PLAN  
 FS5.1 FOODSERVICE EQUIPMENT EXHAUST HOOD DETAILS  
 FS5.2 FOODSERVICE EQUIPMENT EXHAUST HOOD DETAILS  
 FS5.3 FOODSERVICE EQUIPMENT EXHAUST HOOD FIRE SYSTEM DETAILS  
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 FS8.3 FOODSERVICE EQUIPMENT ANCHORAGE DETAILS  
 FS9.1 FOODSERVICE EQUIPMENT ELEVATIONS  
 FS9.2 FOODSERVICE EQUIPMENT ELEVATIONS

**CIVIL**

C1 SITE PLAN SHEET OPTION 1  
 C2 SITE PLAN SHEET OPTION 2  
 C3 GENERAL NOTES  
 C4 DETAILS

■ DRAWING SET CONTAINS 89 SHEETS ■

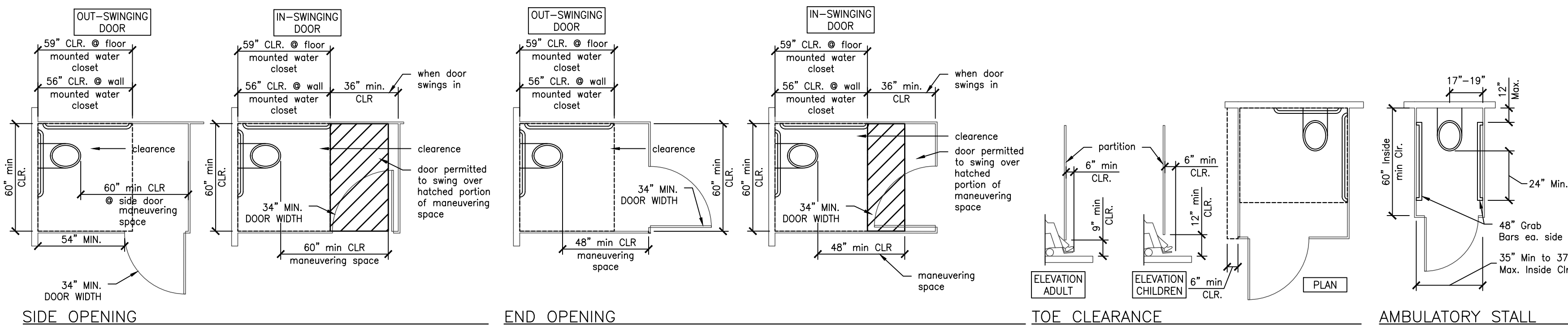
730 Howe Avenue, Suite 450  
 Sacramento, CA 95825  
 Phone: 916.921.2112  
 Fax: 916.921.2212



CULINARY LAB VENTURE ACADEMY

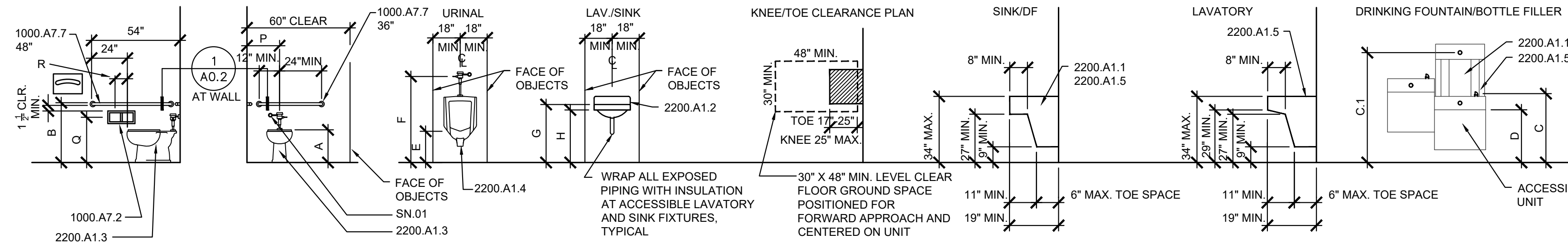
CONSULTANT

PROJECT NO.	REVISIONS	BY
23-34-026		
DATE		
04/12/2024		
DRAWN		
SLH		
CHECKED		
SLH		
SCALE		
CADFILE		
UPDATED		
SHEET NO.		
		CS



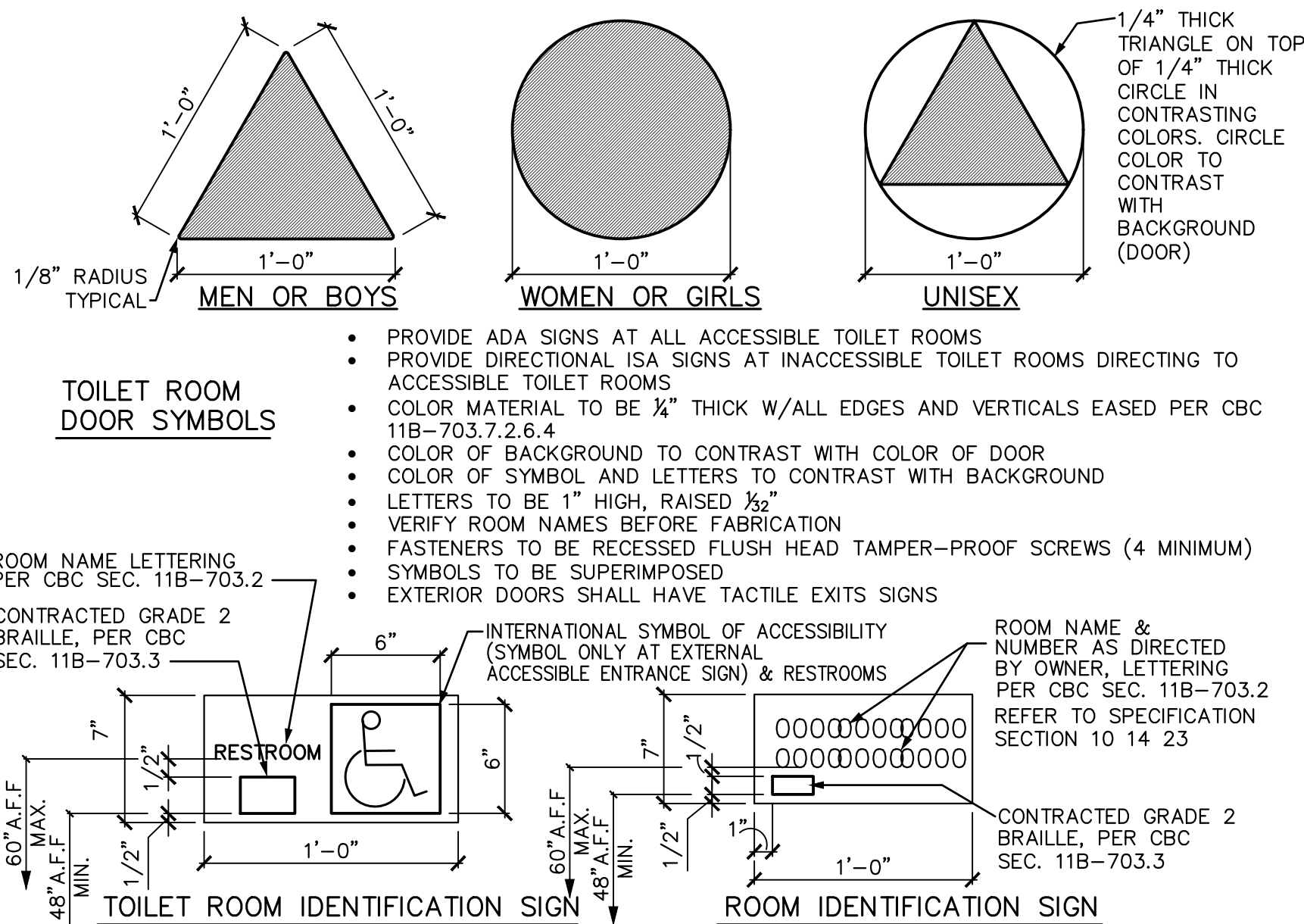
**ACCESSIBLE TOILET STALL**

NOTE: "DA" ON PLANS AND ELEVATIONS INDICATES DESIGNATED ACCESSIBLE FIXTURE.



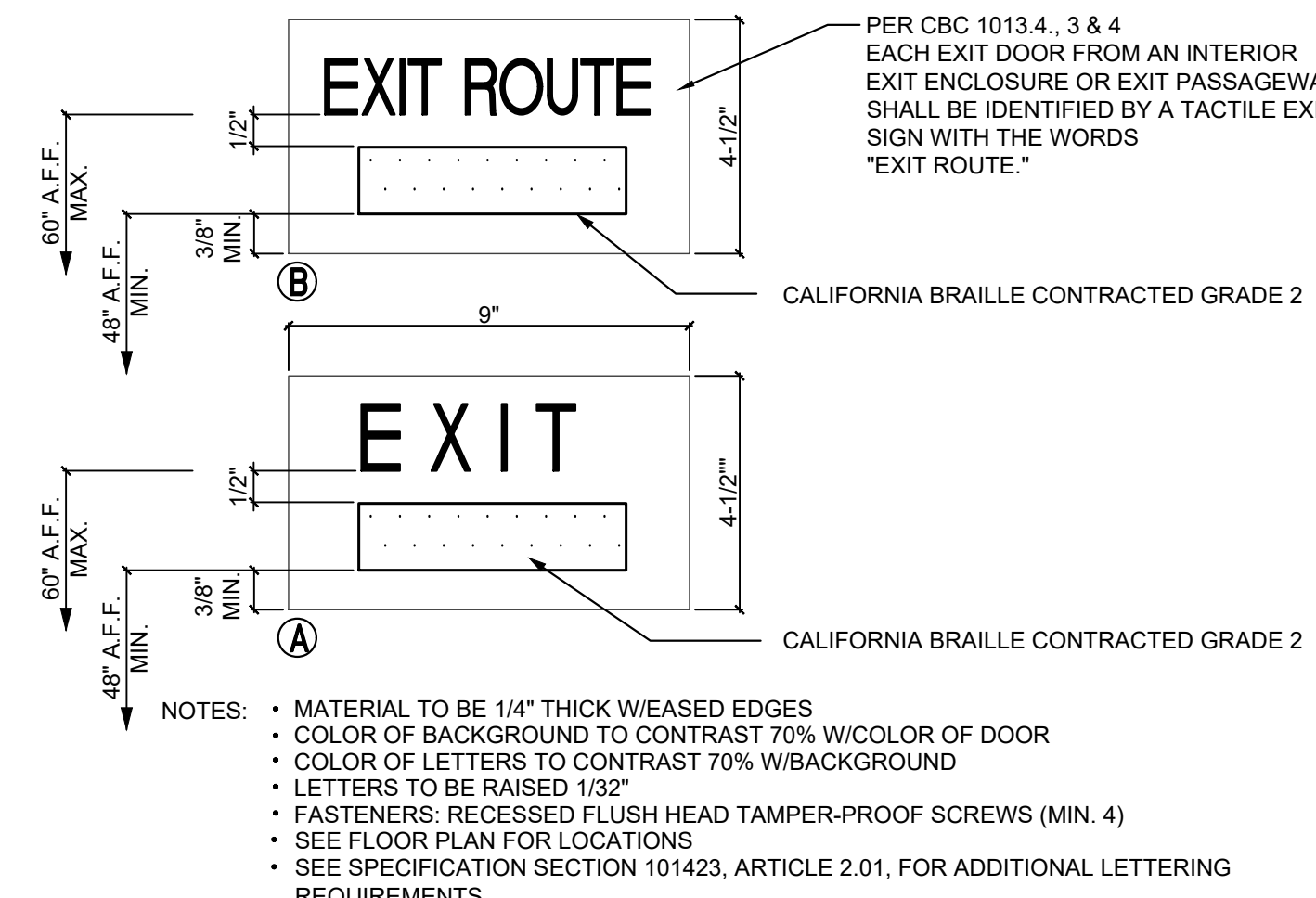
- \* REACH REQUIREMENTS:**
- FORWARD REACH: CBC, SEC. 11B-308.2.1 UNOBSTRUCTED. WHERE A FORWARD REACH IS UNOBSTRUCTED, THE HIGH FORWARD REACH SHALL BE 48 INCHES MAXIMUM AND THE LOW FORWARD REACH SHALL BE 15 INCHES ABOVE THE FINISH FLOOR OR GROUND.
  - FORWARD REACH: CBC, SEC. 11B-308.2.2 OBSTRUCTED HIGH REACH. WHERE A HIGH FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEAR FLOOR SPACE SHALL EXTEND BENEATH THE ELEMENT FOR A DISTANCE NOT LEASS THAN THE REQUIRED REACH DEPTH OVER THE OBSTRUCTION. THE HIGH FORWARD REACH SHALL BE 48" MAXIMUM WHERE THE REACH DEPTH IS 20 INCHES MAXIMUM. WHERE THE REACH DEPTH EXCEEDS THE HIGH FORWARD REACH SHAL BE 44" MAXIMUM AND THE REACH DEPTH SHALL BE 25 INCHES MAXIMUM
  - SIDE REACH: CBC, SEC. 11B308.3.1 UNOBSTRUCTED. WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE SIDE REACH IS UNOBSTRUCTED, THE HIGH SIDE REACH SHALL BE 48 INCHES MAXIMUM AND THE LOW SIDE REACH SHALL BE 15 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND

**1 FIXTURE and ACCESSORY HEIGHTS/SIGNAGE MOUNTING**  
N.T.S.

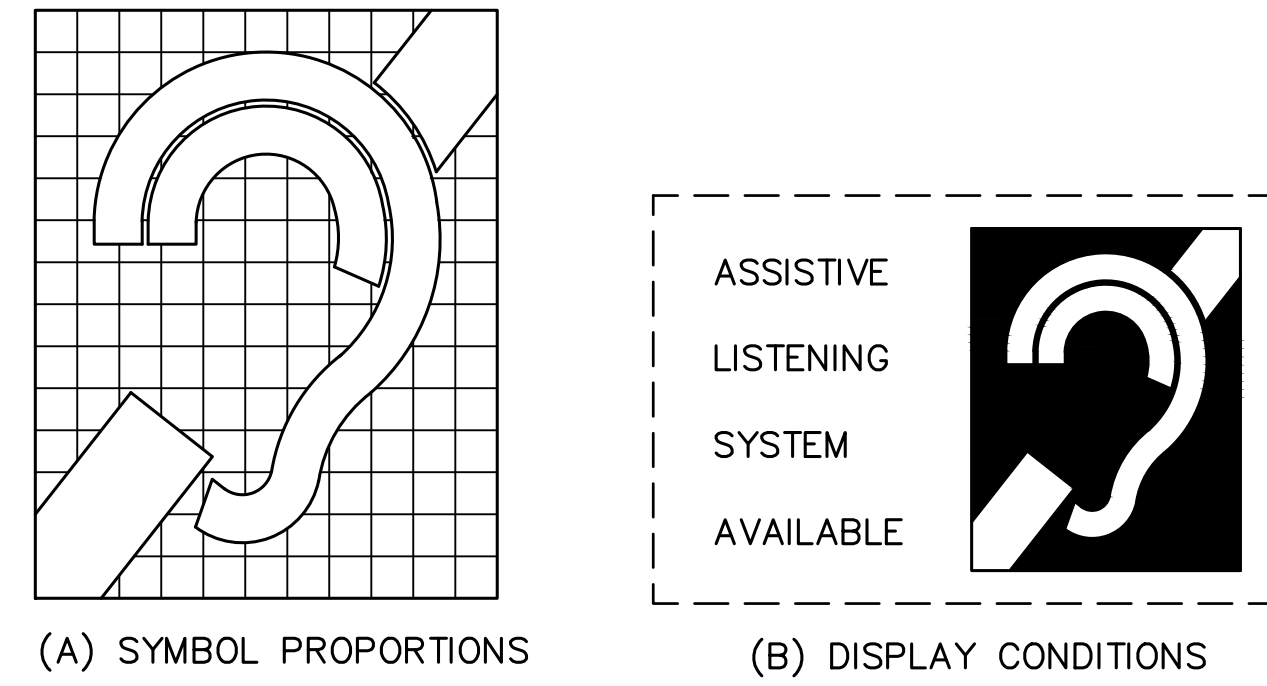


**2 TYPICAL SIGNAGE**  
1 1/2" = 1'-0"  
SEE DETAIL 1/A0.1 FOR TYP. MOUNTING HEIGHTS AND LOCATIONS

**3 TACTILE EXIT SIGN**  
N.T.S.

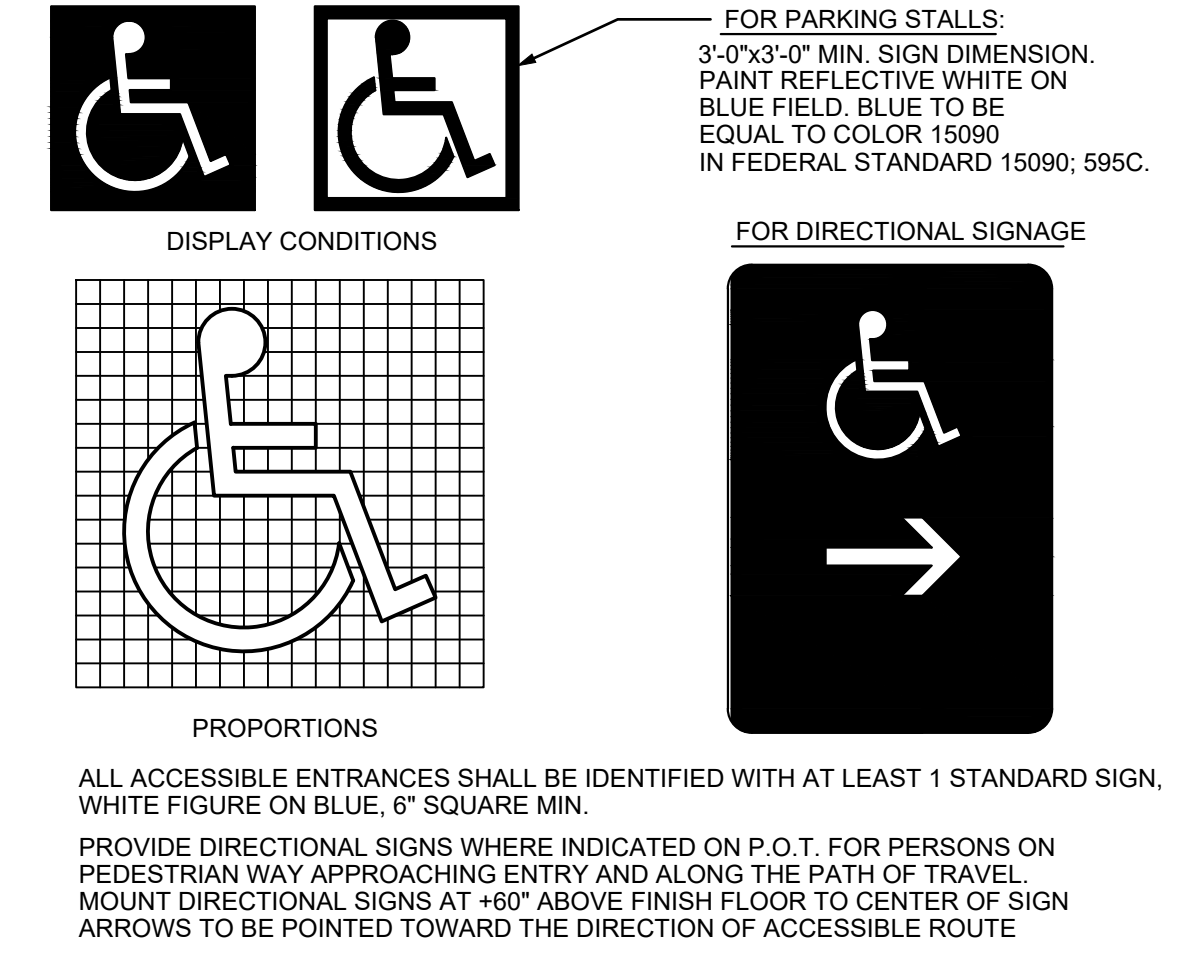


**5 ASSISTIVE LISTENING SYSTEM**  
N.T.S.



- PROVIDE A PORTABLE ASSISTIVE LISTENING SYSTEM: THE MINIMUM NUMBER OF RECEIVERS TO BE PROVIDED SHALL BE EQUAL TO 4 PERCENT OF THE OCCUPANT LOAD AND NOT LESS THAN TWO. TWENTY FIVE PERCENT SHALL BE HEARING AID COMPATIBLE.
- PROVIDE SIGNAGE: ASSISTIVE LISTENING SYSTEMS SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESS FOR HEARING IMPAIRED COMPLYING WITH FIGURE SHOWN IN CBC SEC. 11B-703.7.2.4.
- HEIGHT OF CHARACTERS ON ASSISTIVE LISTENING SIGNS SHALL BE BASED ON THE DISTANCE MOUNTED FROM THE FLOOR, AND THE DISTANCE TO BE VIEWED PER TABLE 11B-703.5.5. CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH AND SHALL CONTRAST (11B-703.5)

**6 SYMBOL OF ACCESSIBILITY**  
N.T.S.



**GENERAL NOTES**

1. ALL ACCESSIBLE DIMENSIONS ARE MAXIMUM DIMENSIONS U.O.N.

**SHEET NOTES**

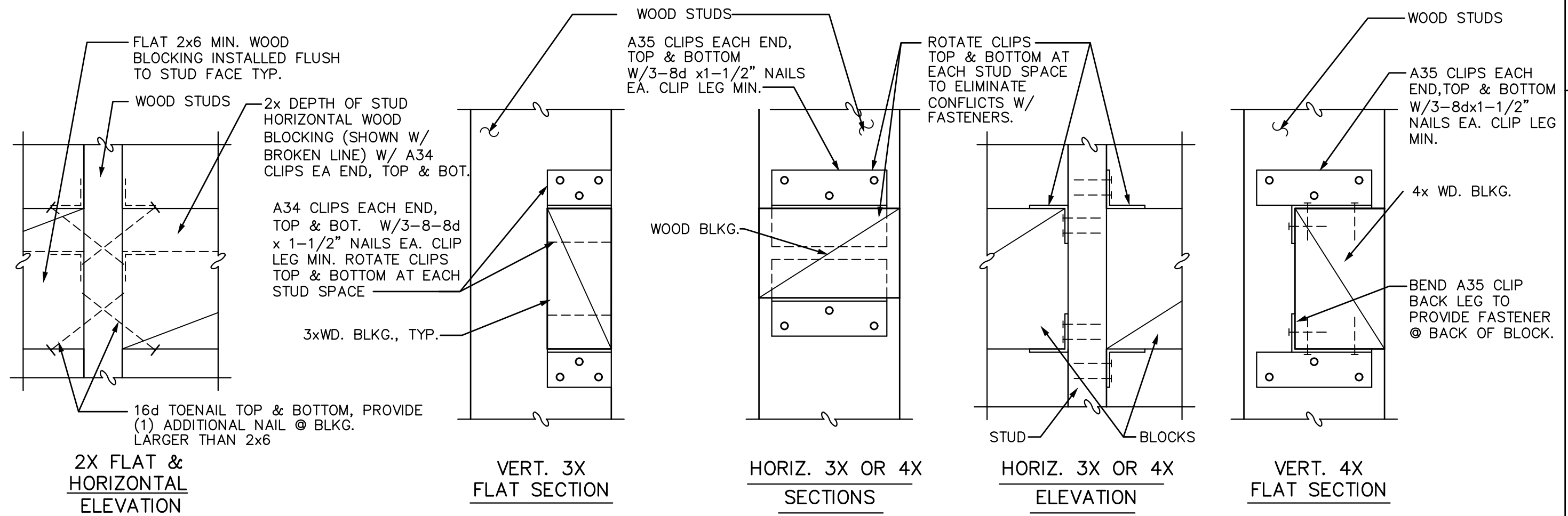
SN.01 AT CBC ACCESSIBLE WATER CLOSET, FLUSH VALVE HANDLE SHALL BE MOUNTED ON THE WIDE SIDE OF THE ENCLOSURE.

**KEYNOTES**

- 1000 SPECIALTIES**
- 1000.A4 SIGNS
- .3 ROOM IDENTIFICATION SIGN
  - .4 RESTROOM IDENTIFICATION SIGN
  - .5 TACTILE EXIT SIGN
- 1000.A5 TOILET PARTITION
- 1000.A7 TOILET ACCESSORIES
- .1 PAPER TOWEL DISPENSER
  - .2 TOILET PAPER DISPENSER
  - .3 SANITARY NAPKIN DISPENSER
  - .4 SOAP DISPENSER
  - .5 MIRROR
  - .6 SANITARY NAPKIN RECEPTACLE
  - .7 GRAB BAR
  - .8 SHELF
  - .9 MOP RACK
  - .10 BABY CHANGING STATION
  - .11 TOILET SEAT COVER DISPENSER
  - .12 WASTE RECEPTACLE - RECESSED
  - .13 WASTER RECEPTACLE - FREE STANDING
- 1000.A9 FIRE EXTINGUISHER
- 2200 PLUMBING**
- 2200.A1 PLUMBING EQUIPMENT
- .1 SINK
  - .2 LAVATORY
  - .3 TOILET
  - .4 URINAL
  - .5 DRINKING FOUNTAIN
  - .13 BOTTLE FILLER

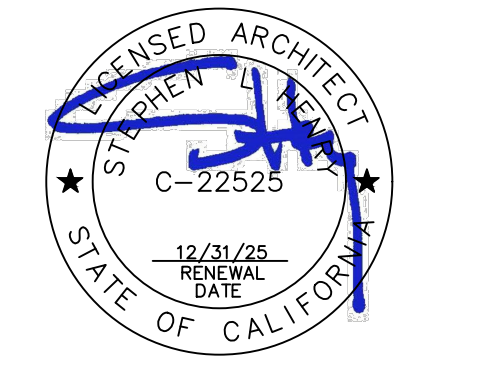
DIM	KEYNOTE	MOUNTING HEIGHTS / DIMENSION									
		AGES 3-4, NURSERY TO PRE-K		AGES 5-8, KINDERGARTEN TO GRADE 2		AGES 9-12, GRADE 3 TO GRADE 6		MIDDLE SCHOOL / JUNIOR HIGH		HIGH SCHOOL / COLLEGE/STAFF	
		STD	DA	STD	DA	STD	DA	STD	DA	STD	DA
A	2200.A1.3 (TOP OF SEAT)	12"	11"-12"	14"	12"-15"	14"	15"-17"	15"	17"-19"	15"	18"
B	1000.A7.7 (TOP OF GRAB BAR)	N/A	18"-20"	N/A	20"-25"	N/A	25"-27"	N/A	33"-36"	N/A	33"-36"
C	2200.A1.5 (OF BUBBLER HEIGHT)	30"	30" MAX.	32"	32" MAX.	32"-33"	32"	38"-43"	36" MAX.	38"-43"	36" MAX.
C.1	2200.A1.13 (BOTTLE FILLER BUTTON)	48"	48" MAX.	48"	48" MAX.	48"	48" MAX.	48"	48" MAX.	48"	48" MAX.
D	2200.A1.5 (OF KNEE CLEARANCE)	27"	24" MIN.	24"	24" MIN.	31"	24" MIN.	31"	27" MIN.	31"	27" MIN.
E	2200.A1.4 (URINAL RIM HEIGHT)	13"	13" MAX.	17"	15" MAX.	24"	17" MAX.	24"	17" MAX.	24"	17" MAX.
F	2200.A1.4 (URINAL FLUSH HANDLE HEIGHT)	36"	32" MAX.	39"	36" MAX.	51"	44" MAX.	51"	44" MAX.	51"	44" MAX.
G	2200.A1.2 (LAV. RIM HEIGHT)	31"	31" MAX.	31"	31" MAX.	31"	34" MAX.	34"	34" MAX.	34"	34" MAX.
H	2200.A1.2 (LAV. KNEE CLEARANCE HEIGHT)	24"	24" MIN.	24"	24" MIN.	24"	24" MIN.	27"	27" MIN.	27"	27" MIN.
J	(BOTTOM OF GLASS ABOVE LAV OR COUNTERTOP)	35"	32" MAX.	38"	35" MAX.	38"	38" MAX.	48"	40" MAX.	52"	40" MAX.*
J	(BOTTOM OF GLASS NOT ABOVE LAV OR COUNTERTOPS)	35"	32" MAX.	38"	35" MAX.	38"	35" MAX.	48"	35" MAX.	52"	35" MAX.*
L	1000.A7.5 (DISPENSER HANDLE HEIGHT)	27"	32" MAX.	32"	36" MAX.	40"	40" MAX.	40"	40" MAX.	42"	40" MAX.
K, M	1000.A7.1 (DISPENSER OPENING HEIGHT)	27"	14" MAX.	40"	36" MAX.	42"	40" MAX.	42"	40" MAX.	42"	40" MAX.
N	1000.A7.8 (TOP OF SURFACE)	N/A	N/A	N/A	N/A	42"	40" MAX.	42"	40" MAX.	46"	40" MIN. 48" MAX.
P	2200.A1.3 (CENTERLINE TO FACE OF WALL)	12"	12"	15"	12"-15"	18"	15"-18"	22"	17"-18"	22"	17"-18"
Q	1000.A7.2 (DISPENSER OPENING HEIGHT)	14"	14" MAX.	15"	14"-17"	18"	17"-19"	18"	19" MIN.	22"	19" MIN.
R	1000.A7.2 (FRONT OF TOILET TO CENTERLINE)	7"	6"	7"	6"	12"	7"-9"	12"	7"-9"	12"	7"-9"
S	1000.A7.3 (OPERABLE HANDLE HEIGHT)	N/A	N/A	N/A	N/A	40"	40" MAX.	40"	40" MAX.	40"	40" MAX.

**NOTE:**  
THIS IS A TYPICAL INFORMATION SHEET AND NOT ALL INFORMATION SHOWN ON THIS SHEET IS APPLICABLE TO THIS PROJECT.



**4 TYPICAL WOOD BLOCKING**  
3" = 1'-0"

730 Howe Avenue, Suite 450  
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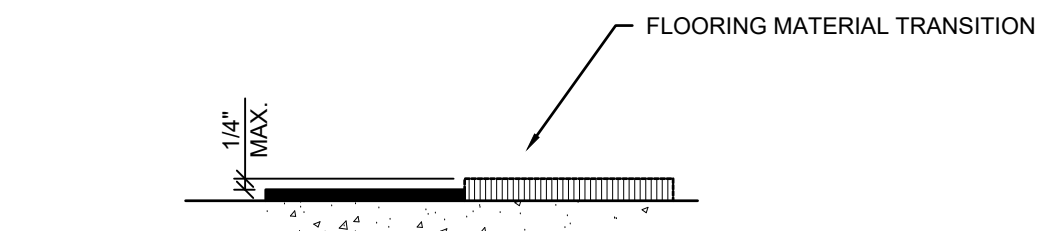


CULINARY LAB  
VENTURE ACADEMY

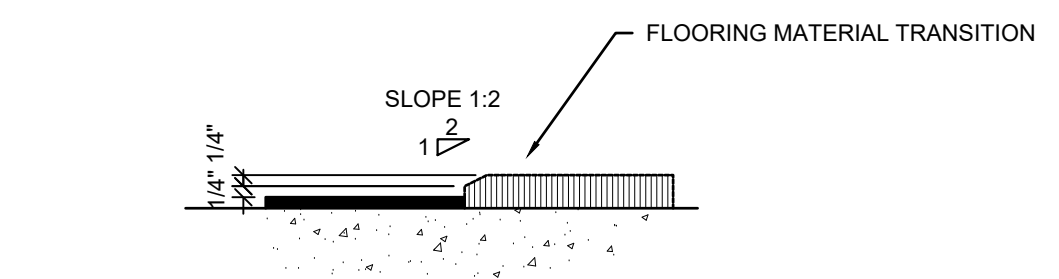
CONSULTANT

TYPICAL DETAILS

PROJECT NO.	REVISIONS	BY
23-34-026		
DATE		
02/29/2024		
DRAWN SLH		
CHECKED SLH		
SCALE AS SHOWN		
CADFILE		
UPDATED		
SHEET NO.		



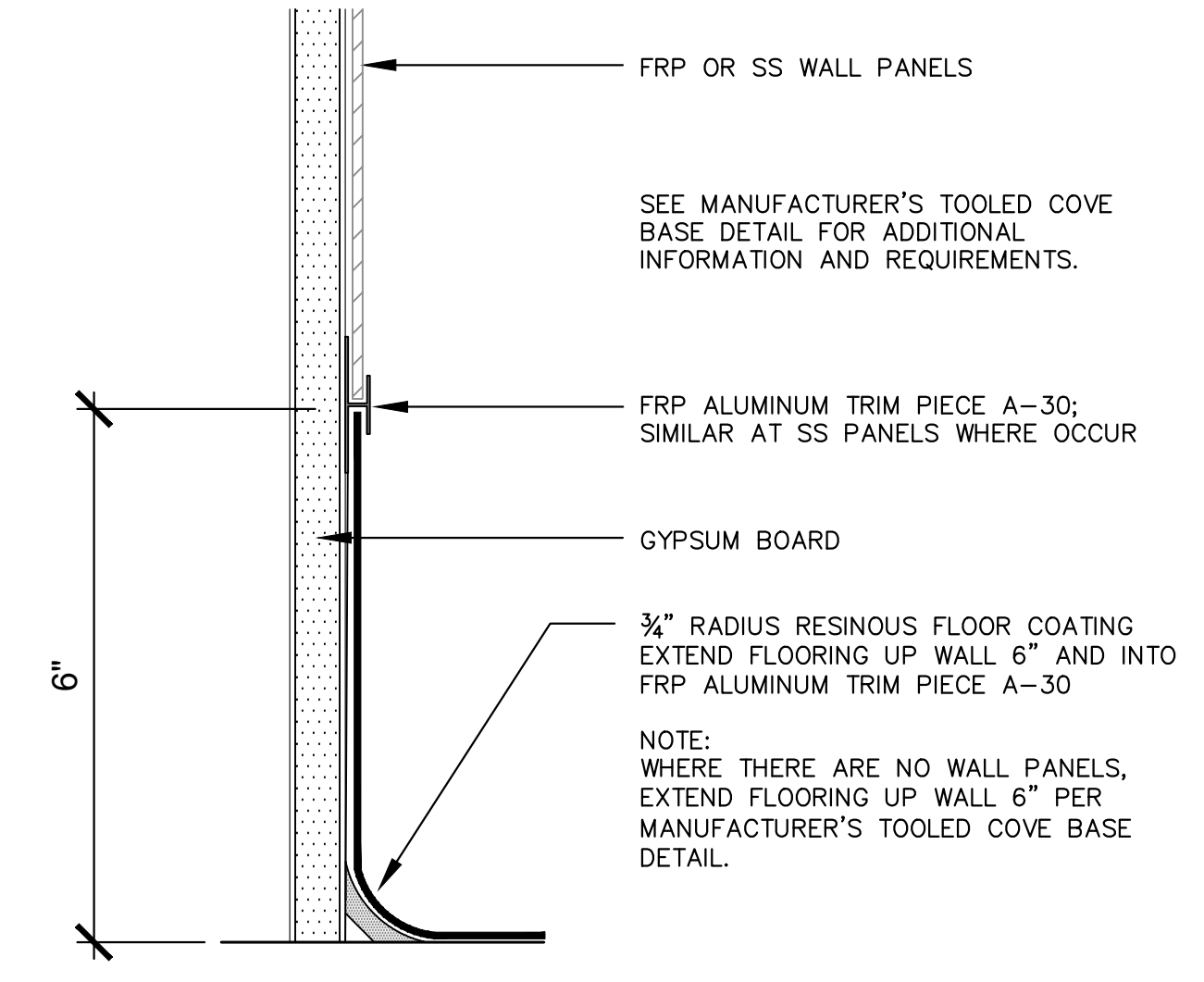
(A) VERTICAL CHANGE IN LEVEL



(B) BEVELED CHANGE IN LEVEL

**1 FLOORING TRANSITION**

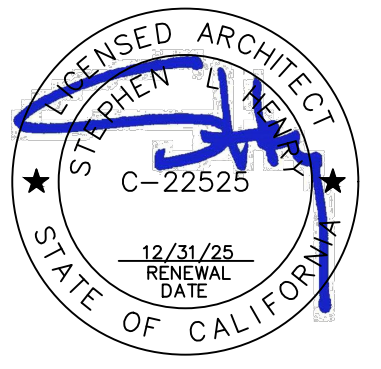
3" = 1'-0"



**2 RESINOUS FLOOR BASE TO FRP**

N.T.S.

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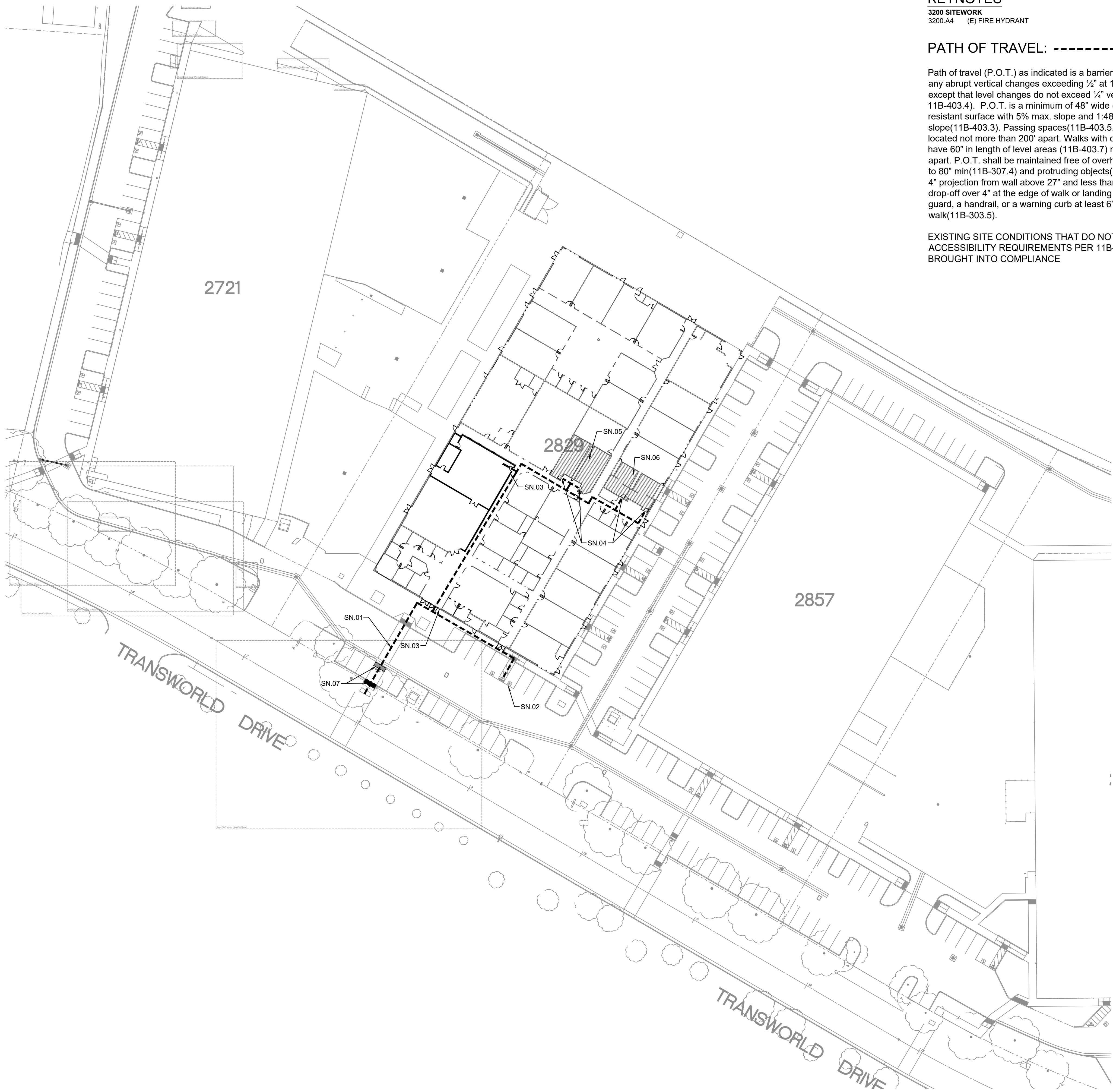
CULINARY LAB  
 VENTURE ACADEMY

TYPICAL DETAILS

CONSULTANT

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SLH		
SCALE		
AS SHOWN		
CADFILE		
UPDATED		

SHEET NO.  
**A0.2**



**KEYNOTES**

3200 SITEWORK  
3200.A4 (E) FIRE HYDRANT

**PATH OF TRAVEL: - - - - -**

Path of travel (P.O.T.) as indicated is a barrier free access without any abrupt vertical changes exceeding 1/2" at 1:2 maximum slope, except that level changes do not exceed 1/4" vertical (11B-303 & 11B-403.4). P.O.T. is a minimum of 48" wide (11B-403.5.1Ex3) slip resistant surface with 5% max. slope and 1:48 max. cross slope (11B-403.3). Passing spaces (11B-403.5.3) of 60"x60" min. are located not more than 200' apart. Walks with continuous gradients have 60" in length of level areas (11B-403.7) not more than 400' apart. P.O.T. shall be maintained free of overhanging obstructions to 80" min (11B-307.4) and protruding objects (11B-307) greater than 4" projection from wall above 27" and less than 80". There is no drop-off over 4" at the edge of walk or landing unless identified by a guard, a handrail, or a warning curb at least 6" in height above the walk (11B-303.5).

EXISTING SITE CONDITIONS THAT DO NOT COMPLY WITH ACCESSIBILITY REQUIREMENTS PER 11B-202.4 (8) SHALL BE BROUGHT INTO COMPLIANCE

**SITE LEGEND**

- PROPERTY LINE
- ACCESSIBLE PATH OF TRAVEL - SEE NOTES THIS SHEET
- (N) CONCRETE WALK CONSTRUCTION  
NOTE: FOLLOW JOINT PATTERN AS SHOWN ON SITE PLAN & DETAILED ON CIVIL PLANS
- (N) ORNAMENTAL METAL FENCE
- (E) ORNAMENTAL METAL FENCE TO REMAIN
- (N) CHAIN LINK FENCE
- (E) CHAIN LINK FENCE TO REMAIN
- (N) CHAIN LINK FENCE FABRIC TO BE INSTALLED O/ (E) MODIFIED FENCE FRAME
- PATH TO SAFE DISPERSAL AREA OR PUBLIC WAY
- DESIGNATED AREA OF SAFE DISPERSAL
- (E) FIRE HYDRANT
- POST INDICATOR & VALVE (PIV)
- BACKFLOW PREVENTER W/ FDC
- METER AND BACKFLOW
- TRUNCATED DOMES
- NEW BUILDING
- EXISTING BUILDING TO BE MODERNIZED
- EXISTING TOILET ROOM TO BE MODERNIZED
- EXISTING TOILET ROOM - NO WORK
- NEW/CONCRETE WALKWAY - SEE CIVIL
- EXISTING WALKWAY TO REMAIN
- NEW LANDSCAPE AREA
- EXISTING PART OF BUILDING TO BE MODERNIZED

**DRAINAGE STRUCTURE - SEE CIVIL**

- CLEAN OUT
- AREA DRAIN
- MAN HOLE COVER
- DROP INLET
- TRENCH DRAIN

**ELECTRICAL STRUCTURE - SEE ELECTRICAL**

- POLE MOUNTED FIXT. TOP MOUNTED
- POLE MOUNTED FIXT. TWIN HEAD
- POLE MOUNTED FIXT. SINGLE HEAD
- UNDERGROUND PULLBOX
- TRANSFORMER
- SWITCHBOARD

**SHEET NOTES**

- SN.01 ACCESSIBLE PATH OF TRAVEL SHOWN DASHED AND CONSTRUCTED IN 2017
- SN.02 ADA COMPLIANT ACCESSIBLE PARKING STALLS, CONSTRUCTED IN 2017.
- SN.03 ADD ROOM IDENTIFICATION SIGNAGE PER DETAIL 2/A0.1
- SN.04 ADD TOILET ROOM DOOR SYMBOL AND TOILET ROOM IDENTIFICATION SIGN PER DETAIL 2/A0.1
- SN.05 EXISTING ACCESSIBLE STUDENT RESTROOMS - BOYS AND GIRLS.
- SN.06 EXISTING ACCESSIBLE STAFF RESTROOMS - MEN AND WOMEN.
- SN.07 REMOVE (E) TRUNCATED DOMES IN PARKING LOT AND INSTALL (N) TRUNCATED DOMES BETWEEN LANDSCAPE CURBS

**Code Analysis**

Culinary Lab @ Venture School - SJCOE

Overall Building Area: 46,100 SF  
 Occupancy Type Classification: E (per DSA IR A-26)  
 Other Occupancy: Adjacent M-P Rm. is E occupancy per CBC 303.1.3  
 Construction Type: V-B, Sprinklered

New Culinary Lab (located within overall building shell):  
 Culinary Lab Area: 2,101 SF  
 Occupancy Type Classification: E (Vocational)  
 Occupancy Load: 42 (50 SF/Occ. Load Factor)

Fire Barrier: 1-Hr. rated required (SFM exception per Incidental Use-Table 509.1)

Fire Sprinklers: Required (Table 509.1 - Per Cobabe of DSA)

Rated Wall Assembly: 1-Hr. Rated Fire Barrier (CBC 707) Assembly from floor to underside of roof deck only. Duct penetrations through roof are allowed on either side of wall. Duct that penetrate through fire barrier must be provided with fire dampers.

Rated Roof Assembly: None Required.  
 Structure Within Walls: No additional fire protection required for steel columns if concealed within rated wall assembly.

Openings: 1-Hr. protected  
 Exiting Required: 1-Exit (less than 50-occupants) (Occupant load factor is 50 per IR A-26) 2101 sf/50 = 42 occupants  
 Door Swing: Door can swing against direction of travel (less than 50-occupants)

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CULINARY LAB VENTURE ACADEMY

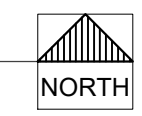
CODE ANALYSIS SITE PLAN

CONSULTANT

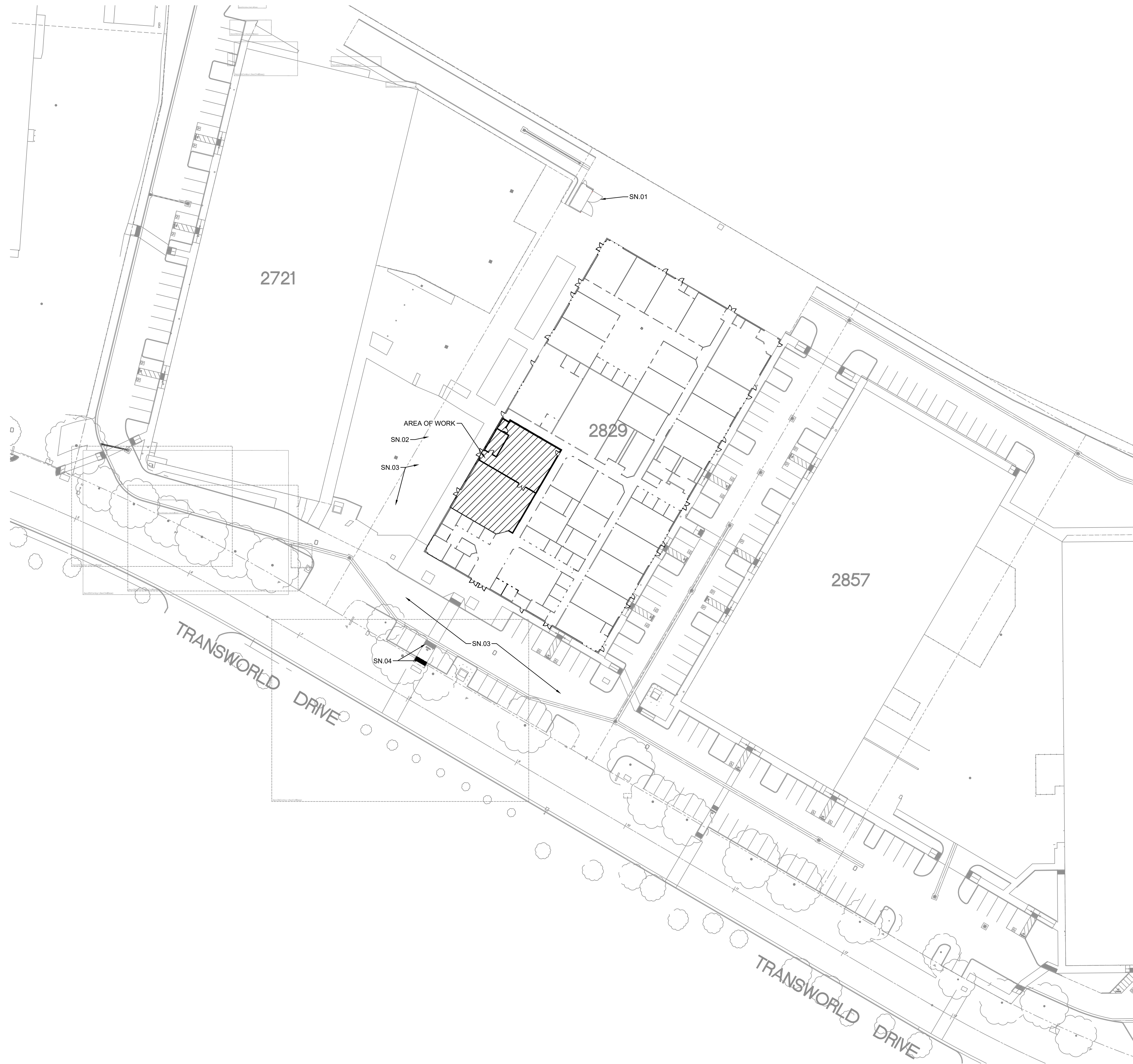
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SHEET NO.		

**1 CODE ANALYSIS SITE PLAN**

SCALE: 1"=40'-0"  
 0 20 40 80  
 10 40



**A1.1.1**



SITE LEGEND	
---	PROPERTY LINE
---	ACCESSIBLE PATH OF TRAVEL - SEE NOTES THIS SHEET
	(N) CONCRETE WALK CONSTRUCTION NOTE: FOLLOW JOINT PATTERN AS SHOWN ON SITE PLAN & DETAILED ON CIVIL PLANS
	(N) ORNAMENTAL METAL FENCE
	(E) ORNAMENTAL METAL FENCE TO REMAIN
	(N) CHAIN LINK FENCE
	(E) CHAIN LINK FENCE TO REMAIN
	(N) CHAIN LINK FENCE FABRIC TO BE INSTALLED O/ (E) MODIFIED FENCE FRAME
	PATH TO SAFE DISPERSAL AREA OR PUBLIC WAY
	DESIGNATED AREA OF SAFE DISPERSAL
	(E) FIRE HYDRANT
	POST INDICATOR & VALVE (PIV)
	BACKFLOW PREVENTER W/ FDC
	METER AND BACKFLOW
	TRUNCATED DOMES
	NEW BUILDING
	EXISTING BUILDING TO BE MODERNIZED
	EXISTING TOILET ROOM TO BE MODERNIZED
	EXISTING TOILET ROOM - NO WORK
	NEW/CONCRETE WALKWAY - SEE CIVIL
	EXISTING WALKWAY TO REMAIN
	NEW LANDSCAPE AREA
	EXISTING PART OF BUILDING TO BE MODERNIZED
	DRAINAGE STRUCTURE - SEE CIVIL CLEAN OUT
	AREA DRAIN
	MAN HOLE COVER
	DROP INLET
	TRENCH DRAIN
	ELECTRICAL STRUCTURE - SEE ELECTRICAL POLE MOUNTED FIXT. TOP MOUNTED
	POLE MOUNTED FIXT. TWIN HEAD
	POLE MOUNTED FIXT. SINGLE HEAD
	UNDERGROUND PULLBOX
	TRANSFORMER
	SWITCHBOARD

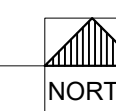
**GENERAL NOTES**

- SAFETY: CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE PREMISES ON WHICH THE WORK IS PERFORMED AND FOR THE SAFETY OF ALL PERSONS AND PROPERTY ON THE SITE BOTH DURING AND OUTSIDE OF NORMAL WORKING HOURS, UNTIL SUCH WORK IS ACCEPTED BY THE OWNER.
- UNDERGROUND SERVICES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES AND/OR UTILITY DISTRICTS AS TO THE LOCATION OF ALL UNDERGROUND FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR UNDERGROUND UTILITIES OR OTHER BURIED OBJECTS WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS.
- USE OF BARRICADES AND SITE CONTROLS: WHEN THE WORK AREA HAS TRENCHES OR DITCHES DEEPER THAN ONE FOOT, THE CONTRACTOR SHALL PROVIDE FENCING AND BARRICADES AT SUCH TRENCHES OR DITCHES DURING THE WORK DAY. CONTRACTOR SHALL EXPEDITE THE FILLING AND COMPACTING OF SUCH TRENCHES OR DITCHES.
- QUANTITIES: ANY MATERIAL QUANTITIES THAT ARE NOTED ON THESE DRAWINGS ARE NOT GUARANTEED CONTRACT QUANTITIES. CONTRACTOR IS TO PERFORM THEIR OWN ESTIMATES AND QUANTITY TAKE-OFFS. CONTRACTOR IS TO PROVIDE ALL MATERIALS NECESSARY TO COMPLETE PROJECT. EVEN IF QUANTITIES ARE DIFFERENT THAN THOSE SHOWN ON THE DRAWINGS.
- PRE-EXISTING CONDITIONS
  - CONTRACTORS SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING OBSERVABLE SITE CONDITIONS PRIOR TO SUBMITTING BID.
  - ALL ITEMS NOT SHOWN AS EXISTING SHALL BE CONSIDERED NEW AND ARE PART OF THIS CONTRACT.

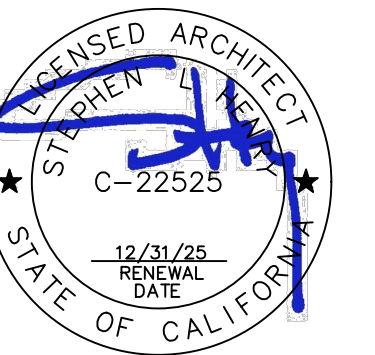
**SHEET NOTES**

- SN.01 (E) CMU TRASH ENCLOSURE.
- SN.02 APPROXIMATE LOCATION OF (N) GREASE INTERCEPTOR. SEE CIVIL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.03 REPAIR AND RESTORE ALL PAVING, CURBS, WALKS, LANDSCAPE PLANTERS AND IRRIGATION FOLLOW INSTALLATION OF GREASE INTERCEPTOR AND SEWER LINE.
- SN.04 REMOVE (E) TRUNCATED DOMES IN PARKING LOT AND INSTALL (N) TRUNCATED DOMES BETWEEN LANDSCAPE CURBS

1 SITE PLAN  
A1.1.2 SCALE: 1"=40'-0"  
0 20 40 80



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CULINARY LAB  
VENTURE ACADEMY

SITE PLAN

CONSULTANT

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SHEET NO.

A1.1.2

**GENERAL NOTES**

- THE DEMOLITION PLANS AND NOTES ARE GENERAL IN NATURE AND REPRESENT THE GENERAL DEMOLITION OR PROTECT-IN-PLACE SCOPE. IN EXISTING SPACES CONTRACTOR TO FIELD VERIFY QUANTITY AND LOCATION OF VARIOUS WALL OR CEILING MOUNTED ITEMS REQUIRED TO BE REMOVED OR PROTECTED IN PLACE AND MASKED FOR PAINTING. THE CONTRACTOR IS REQUIRED TO REMOVE OR PROTECT AND MASK IN PLACE ALL EXISTING DRY MARKER BOARDS, TACKBOARDS, CASEWORK, PROJECTION SCREENS, FIRE EXTINGUISHERS, WINDOW COVERINGS & TRACKS, LIGHT FIXTURES, FIRE ALARM DEVICES, INTERCOM SPEAKER OR ANY OTHER ITEM WHETHER SPECIFICALLY SHOWN OR NOT AND AS REQUIRED FOR INSTALLATION OF NEW FINISHES. SOME ITEMS WILL BE REQUIRED TO BE TEMPORARILY STORED AND PROTECTED FOR LATER INSTALLATION.
- NOT ALL OF THE EXISTING INTRUSION ALARM, DATA NETWORKING/DISTRIBUTION AND CLOCK/SPEAKER/INTERCOM COMPONENTS ARE SHOWN IN THE PLANS. THESE ITEMS ARE TO REMAIN AS INSTALLED AND SHALL BE MASKED USING PLASTIC SHEETING AND ANY OTHER PROTECTION MEASURES NECESSARY DURING CONSTRUCTION OPERATIONS AND PRIOR TO PAINTING. VERIFY WITH OWNER THE EXACT PROTECTION AND MASKING MEASURES AND LIMITATIONS PRIOR TO MASKING.

**DEMOLITION NOTES**

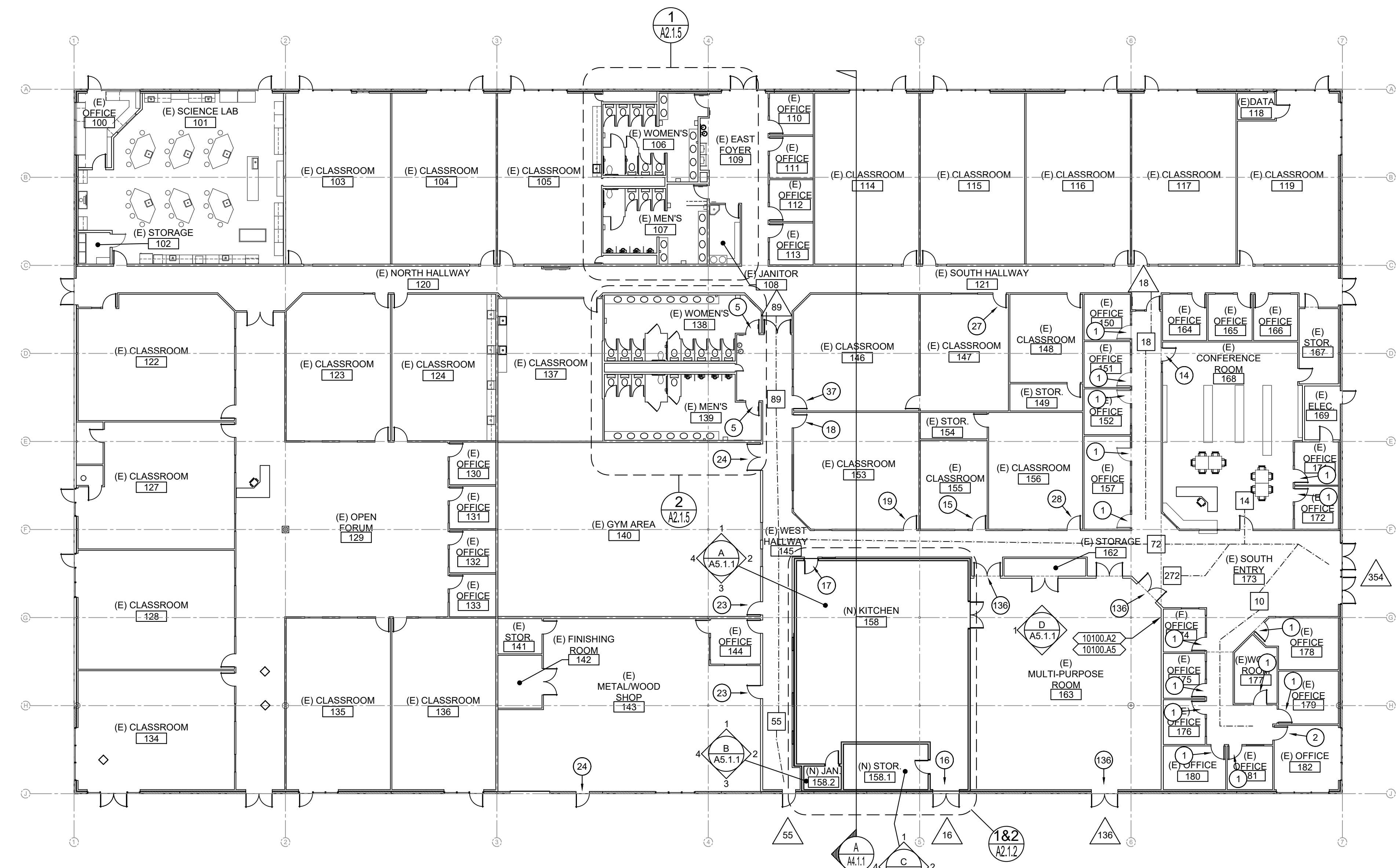
- NOTE: NOT ALL NOTES MAY BE USED
- DN.01 REMOVE (E) WALL FINISHES AND FRAMING COMPLETELY SHOWN SHADED, INCLUDING DISCONNECT AND REMOVE ALL ELECTRICAL DATA, COMMUNICATIONS, FIRE ALARM, LIGHTING AND POWER DEVICES. SIMILARLY DISCONNECT AND REMOVE ALL PLUMBING AND MECHANICAL ITEMS LOCATED WITHIN WALL.
  - DN.02 REMOVE (E) CEILING FINISHES AND FRAMING COMPLETELY SHOWN SHADED, INCLUDING DISCONNECT AND REMOVE ALL ELECTRICAL DATA, COMMUNICATIONS, FIRE ALARM, LIGHTING AND POWER DEVICES. DISCONNECT AND REMOVE ALL PLUMBING, MECHANICAL AND FIRE SPRINKLER ITEMS LOCATED IN AND ABOVE CEILING. SEE ELECTRICAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
  - DN.03 REMOVE (E) DOOR, SLIDELIGHT PANEL, TRANSOM GLAZING AND ENTIRE FRAME. PROTECT IN PLACE AND SALVAGE ANY INTRUSION ALARM COMPONENTS FOR FUTURE INSTALLATION AND CONNECTION.
  - DN.04 REMOVE (E) CASEWORK. DISCONNECT AND REMOVE ALL PLUMBING AND ELECTRICAL WITHIN CASEWORK.
  - DN.05 REMOVE (E) FLOOR FINISHES.
  - DN.06 SAWCUT AND REMOVE (E) CONCRETE SLAB FLOOR SHOWN HATCHED.
  - DN.07 REMOVE (E) MECHANICAL GRILLES AND DUCTWORK ABOVE.
  - DN.08 DISCONNECT AND REMOVE (E) WATER HEATER.
  - DN.09 REMOVE (E) LIGHT FIXTURES AT CEILING TYPICAL - SEE ELECTRICAL.
  - DN.10 DISCONNECT AND REMOVE (E) ROLL UP COUNTER DOOR.
  - DN.11 DISCONNECT AND REMOVE (E) STOVE AND EXHAUST HOOD.
  - DN.12 DISCONNECT AND REMOVE (E) PLUMBING FIXTURES, FLOOR SINKS, DRAINS, ETC.
  - DN.13 REMOVE (E) SUSPENDED ACOUSTICAL CEILING PANELS AND GRID SYSTEM INCLUDING LIGHTING, FIRE SPRINKLERS AND MECHANICAL IN AND ABOVE CEILING. SEE ELECTRICAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
  - DN.14 REMOVE (E) MECHANICAL GRILLES AND DUCTWORK ABOVE. THREE MORE LOCATIONS NOT SHOWN.
  - DN.15 DISCONNECT AND REMOVE (E) MECHANICAL EQUIPMENT. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
  - DN.16 REMOVE (E) SKYLIGHT AND CURB.
  - DN.17 REMOVE (E) PAIR OF DOORS, FRAME TO REMAIN.

**SHEET NOTES**

- (NOTE: NOT ALL NOTES MAY BE USED)
- SN.01 (E) FLOOR FINISHES TO BE PROTECTED DURING CONSTRUCTION OPERATIONS
  - SN.02 PATCH AND REPAIR FLOORING ALONG NEW WALL. INSTALL NEW RUBBER BASE.
  - SN.03 REPAIR (E) SUSPENDED ACOUSTICAL CEILING GRID AT NEW WALL AND WHERE HVAC DIFFUSERS AND MECHANICAL IN AND ABOVE CEILING. SEE ELECTRICAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.

**KEYNOTES**

- 03300 CONCRETE
- 03300.A1 new concrete slab per structural, dowel into (e) slab.
- 05500 METAL
- 05500.A1 existing steel pipe column-paint.
- 06200 CARPENTRY
- 06200.A1 frame new walls shown shaded
- 06200.A2 frame and sheath over opening where door was removed.
- 06200.A3 frame and sheath over opening where skylight was removed.
- 06200.A4 (e) beam
- 07210 THERMAL INSULATION
- 07210.A1 R-38 insulation above acoustical ceiling.
- 07210.A2 R-21.5 insulation at walls.
- 07540 SINGLE PLY MEMBRANE ROOFING
- 07540.A1 (e) 80-mil single ply membrane roofing.
- 07540.A2 cut, patch and flash in new equipment curbs into existing single ply roofing system. see details 4/A8.1.1 and 5/A8.1.1.
- 07540.A3 cut and patch in roofing where skylight was removed.
- 07540.A4 (n) 80-mil walk pads shown shaded. see detail 3/A8.1.1
- 07540.A5 heated stack. see detail 2/A8.1.1
- 07540.A6 pipe vent. see detail 1/A8.1.1
- 08000 WINDOWS AND DOORS
- 08000.A1 (e) door
- 08000.A2 (n) hollow metal door, frame and hardware.
- 08000.A3 (n) hollow metal door and hardware in (e) hollow metal frame
- 09510 ACOUSTICAL CEILINGS
- 09510.A1 acoustical ceiling type A1-fine fissured.
- 09510.A2 acoustical ceiling type A2-vinyl rock.
- 09290 GYPSUM BOARD
- 09290.A1 gypsum wallboard-painted
- 09650 RESILIENT FLOORING AND BASE
- 09650.A1 vinyl composition tile
- 09650.A2 4" covered rubber base
- 09670 RESINOUS FLOORING
- 09670.A1 resinous flooring and wall coating
- 09670.A2 resinous flooring cove up wall 6"
- 09720 FIBERGLASS REINFORCED WALL PANELS
- 09720.A1 FRP wall panel type FRP1
- 10100 SIGNAGE
- 10100.A1 room identification signage per details 2A0.1 and 3/A0.1
- 10100.A2 occupancy sign; provide occupancy sign: "THE NUMBER OF PEOPLE PERMITTED IN THIS ROOM SHALL NOT EXCEED 406 ASSEMBLY AND 290 DINING".
- 10100.A3 tactile exit sign per detail 3/A0.1
- 10100.A4 not used
- 10100.A5 assistive listening device sign: to read "LISTENING DEVICE AVAILABLE".
- 10200 FURNITURE & EQUIPMENT
- 10200.A1 UL rated class K 2-A wet chemical fire extinguisher with 2.5 lb. capacity
- 11400 FOOD SERVICE EQUIPMENT
- 11400.A1 food service equipment
- 11400.A2 exhaust hood
- 11400.A3 stainless steel wall lining
- 11400.A4 side by side washer and dryer units - owner furnished, contractor installed. top loading machines shall have the door to the laundry compartment located 36 inches (914 mm) maximum above the finish floor. front loading machines shall have the bottom of the opening to the laundry compartment located 15 inches (381 mm) minimum and 36 inches (914 mm) maximum above the finish floor.
- 11520 PROJECTION SCREENS
- 11520.A1 type 1 electric operated projection screen with ceiling trim kit for recessed installation into suspended acoustical ceiling.
- 11502.A2 projector mount; universal suspended ceiling mount kit for mounting projector in suspended acoustical ceiling; projector only is OFCI (owner furnished, contractor installed)
- 22000 PLUMBING
- 22000.A1 water heater
- 22000.A2 floor sink
- 22000.A3 mop sink
- 23000 HEATING, VENTILATING AND AIR CONDITIONING
- 23000.A1 HVAC unit
- 23000.A2 duct diffusers
- 26000 ELECTRICAL GENERAL REQUIREMENTS
- 26000.A1 electrical panel
- 26000.A2 light fixture



**1 EXIT ANALYSIS FLOOR PLAN**  
 SCALE: 1/16" = 1'-0"  
 0 8' 32'  
 4 16'

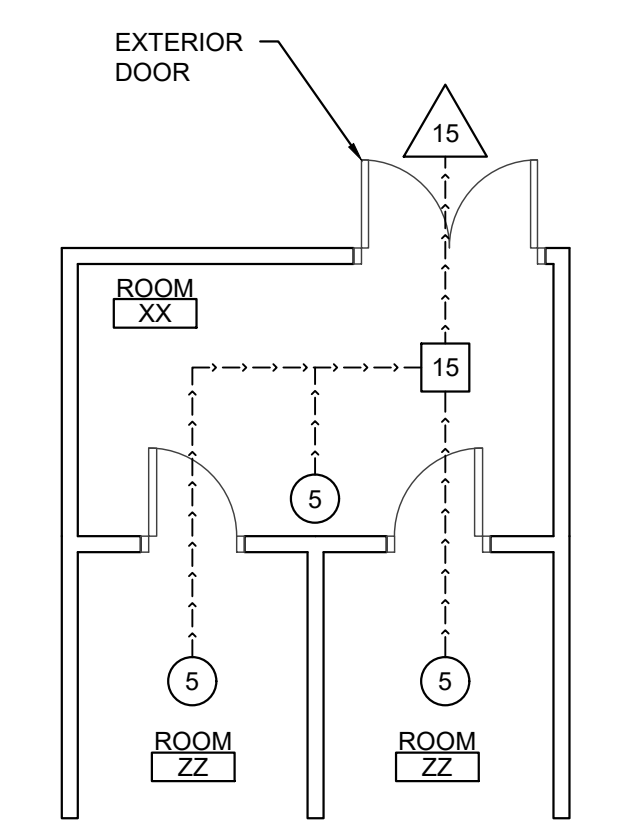
ROOM NUMBER	NAME	AREA (SF)	COSTRUCT. TYPE	OCCUPANCY GROUP	OCCUPANCY LOAD FACTOR (SF/OCC.)	OCCUPANCY LOAD	EXIT WIDTH REQUIRED (INCHES)	EXIT WIDTH PROVIDED (INCHES)	REQ. # OF EXITS	# OF EXITS PROVIDED
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(PER CBC TABLE 1004.1.2)

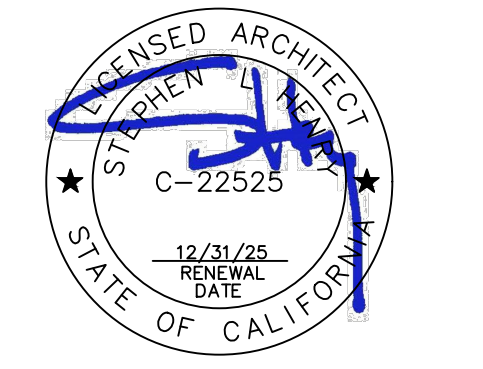
138	Women's	491	V-B	E	100	5	36	72	1	1
139	Men's	497	V-B	E	100	5	36	72	1	1
140	Gym Area	2356	V-B	E	50	47	36	72	1	2
141-144	Metal/Wood Shop	2341	V-B	E	50	47	36	72	1	2
145	Hallway	1756	V-B	E	100	18				
146	Classroom	746	V-B	E	20	37	36	36	1	1
150	Office	109	V-B	E	150	1	36	36	1	1
151	Office	109	V-B	E	150	1	36	36	1	1
152	Office	109	V-B	E	150	1	36	36	1	1
153	Classroom	746	V-B	E	20	37	36	72	1	2
154	Stor.	91	V-B	E	300	1	36	36	1	1
155	Classroom	305	V-B	E	20	15	36	36	1	1
156	Classroom	565	V-B	E	20	28	36	36	1	1
157	Office	222	V-B	E	150	2	36	72	1	2
158	(N) Culinary Lab	1665	V-B	E	50	33	36	108	1	2
159	Laundry	72	V-B	E	300	1	36	36	1	1
160	Stor.	325	V-B	E	300	1	36	36	1	1
162	Stor.	74	V-B	E	300	1	36	36	1	1
163	Multi-Purpose	2033	V-B	A-2	5	407	82	216	2	3
168	Library	1299	V-B	E	50	26	36	1	1	1
171	Office	97	V-B	E	150	1	36	1	1	1
172	Office	97	V-B	E	150	1	36	1	1	1
173	South Entry	1073	V-B	E	100	11				
174	Office	93	V-B	E	150	1	36	1	1	1
175	Office	96	V-B	E	150	1	36	1	1	1
176	Office	96	V-B	E	150	1	36	1	1	1
177	Work Room	131	V-B	E	150	1	36	1	1	1
178	Office	186	V-B	E	150	1	36	1	1	1
179	Office	179	V-B	E	150	1	36	1	1	1
180	Office	140	V-B	E	150	1	36	1	1	1
181	Office	102	V-B	E	150	1	36	1	1	1
182	Office	224	V-B	E	150	2	36	1	1	1

**GRAPHIC KEY**

- WALL TYPES:**
- EXISTING WALL TO REMAIN.
  - NEW STUD WALL
  - EXIT ANALYSIS PATH OF TRAVEL
  - ROOM OCCUPANT LOAD
  - COMBINED OCCUPANT LOAD
  - TOTAL FLOOR OCCUPANT LOAD



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CULINARY LAB  
 VENTURE ACADEMY

EXIT ANALYSIS  
 FLOOR PLAN

CONSULTANT

PROJECT NO.	REVISIONS	BY
23-34-026		
DATE		
02/29/2024		
DRAWN		
SLH		
CHECKED		
SLH		
SCALE		
AS SHOWN		
CADFILE		
UPDATED		
SHEET NO.		

**A2.1.1**

**GENERAL NOTES**

1. THE DEMOLITION PLANS AND NOTES ARE GENERAL IN NATURE AND REPRESENT THE GENERAL DEMOLITION OR PROTECT-IN-PLACE SCOPE. IN EXISTING SPACES CONTRACTOR TO FIELD VERIFY QUANTITY AND LOCATION OF VARIOUS WALL OR CEILING MOUNTED ITEMS REQUIRED TO BE REMOVED OR PROTECTED IN PLACE AND MASKED FOR PAINTING. THE CONTRACTOR IS REQUIRED TO REMOVE OR PROTECT AND MASK IN PLACE ALL EXISTING DRY MARKER BOARDS, TACKBOARDS, CASEWORK, PROJECTION SCREENS, FIRE EXTINGUISHERS, WINDOW COVERINGS & TRACKS, LIGHT FIXTURES, FIRE ALARM DEVICES, INTERCOM SPEAKER OR ANY OTHER ITEM WHETHER SPECIFICALLY SHOWN OR NOT AND AS REQUIRED FOR INSTALLATION OF NEW FINISHES. SOME ITEMS WILL BE REQUIRED TO BE TEMPORARILY STORED AND PROTECTED FOR LATER INSTALLATION.
2. NOT ALL OF THE EXISTING INTRUSION ALARM, DATA NETWORKING/DISTRIBUTION AND CLOCK/SPEAKER/INTERCOM COMPONENTS ARE SHOWN IN THE PLANS. THESE ITEMS ARE TO REMAIN AS INSTALLED AND SHALL BE MASKED USING PLASTIC SHEETING AND ANY OTHER PROTECTION MEASURES NECESSARY DURING CONSTRUCTION OPERATIONS AND PRIOR TO PAINTING. VERIFY WITH OWNER THE EXACT PROTECTION AND MASKING MEASURES AND LIMITATIONS PRIOR TO MASKING.

**DEMOLITION NOTES**

- NOTE: NOT ALL NOTES MAY BE USED
- DN.01 REMOVE (E) WALL FINISHES AND FRAMING COMPLETELY SHOWN SHADED, INCLUDING DISCONNECT AND REMOVAL OF ALL ELECTRICAL DATA, COMMUNICATIONS, FIRE ALARM, LIGHTING AND POWER DEVICES. SIMILARLY DISCONNECT AND REMOVE ALL PLUMBING AND MECHANICAL ITEMS LOCATED WITHIN WALL.
  - DN.02 REMOVE (E) CEILING FINISHES AND FRAMING COMPLETELY SHOWN SHADED, INCLUDING DISCONNECT AND REMOVE ALL ELECTRICAL DATA, COMMUNICATIONS, FIRE ALARM, LIGHTING AND POWER DEVICES. SIMILARLY DISCONNECT AND REMOVE ALL PLUMBING, MECHANICAL AND FIRE SPRINKLER ITEMS LOCATED IN AND ABOVE CEILING. SEE ELECTRICAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
  - DN.03 REMOVE (E) DOOR SIDELIGHT PANEL, TRANSOM GLAZING AND ENTIRE FRAME. PROTECT IN PLACE AND/OR SALVAGE ANY INTRUSION ALARM COMPONENTS FOR FUTURE INSTALLATION AND CONNECTION.
  - DN.04 REMOVE (E) CASEWORK. DISCONNECT AND REMOVE ALL PLUMBING AND ELECTRICAL WITHIN CASEWORK.
  - DN.05 REMOVE (E) FLOOR FINISHES.
  - DN.06 SAWCUT AND REMOVE (E) CONCRETE SLAB FLOOR SHOWN HATCHED.
  - DN.07 REMOVE (E) MECHANICAL GRILLES AND DUCTWORK ABOVE.
  - DN.08 DISCONNECT AND REMOVE (E) WATER HEATER.
  - DN.09 REMOVE (E) LIGHT FIXTURES AT CEILING TYPICAL - SEE ELECTRICAL.
  - DN.10 DISCONNECT AND REMOVE (E) ROLL UP COUNTER DOOR.
  - DN.11 DISCONNECT AND REMOVE (E) STOVE AND EXHAUST HOOD.
  - DN.12 DISCONNECT AND REMOVE (E) PLUMBING FIXTURES, FLOOR SINKS, DRAINS, ETC.
  - DN.13 REMOVE (E) SUSPENDED ACOUSTICAL CEILING PANELS AND GRID SYSTEM INCLUDING LIGHTING, FIRE SPRINKLERS AND MECHANICAL IN AND ABOVE CEILING. SEE ELECTRICAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
  - DN.14 REMOVE (E) MECHANICAL GRILLES AND DUCTWORK ABOVE. THREE MORE LOCATIONS NOT SHOWN.
  - DN.15 DISCONNECT AND REMOVE (E) MECHANICAL EQUIPMENT. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
  - DN.16 REMOVE (E) SKYLIGHT AND CURB.
  - DN.17 REMOVE (E) PAIR OF DOORS, FRAME TO REMAIN.

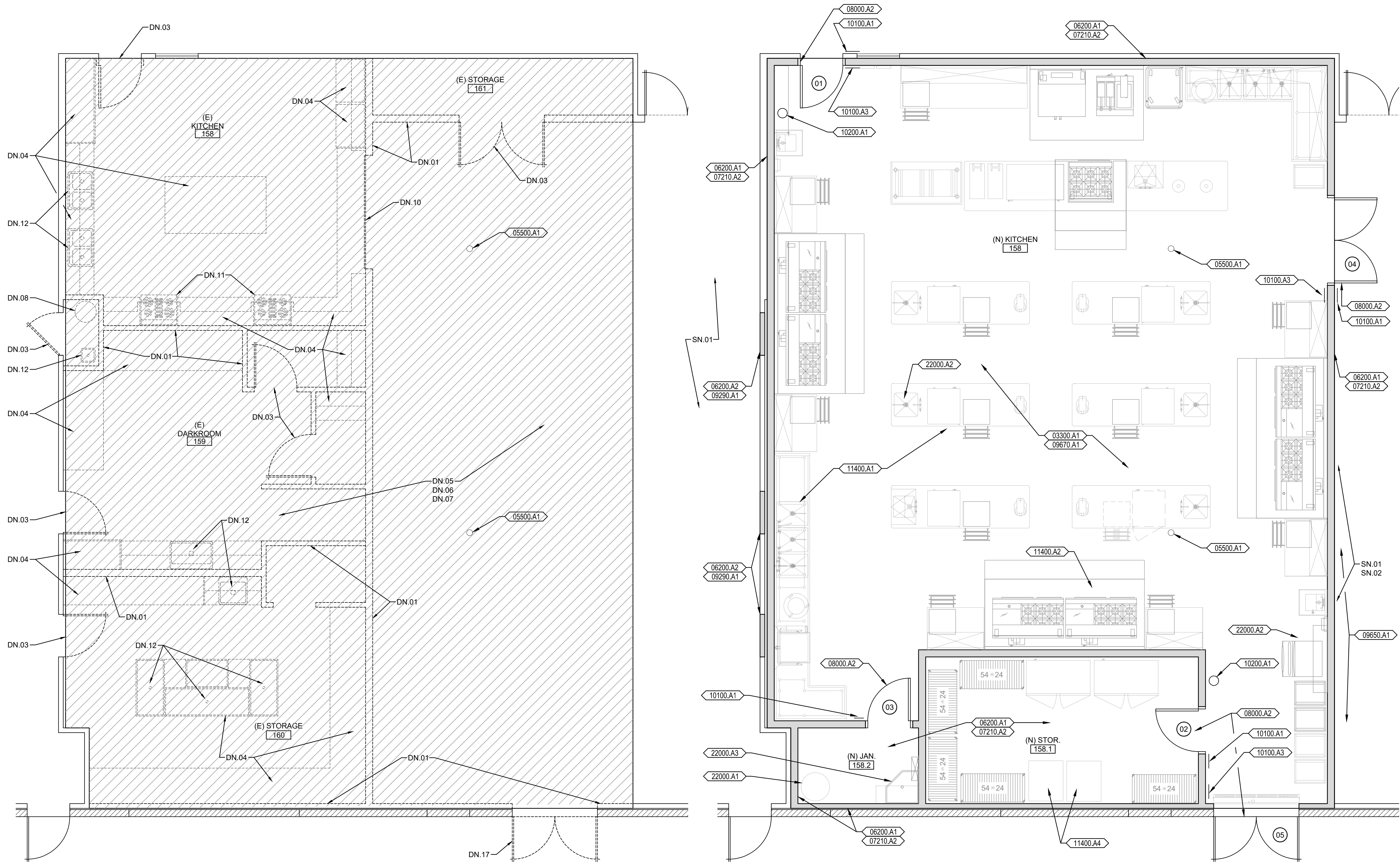
**SHEET NOTES**

- (NOTE: NOT ALL NOTES MAY BE USED)
- SN.01 (E) FLOOR FINISHES TO BE PROTECTED DURING CONSTRUCTION OPERATIONS
  - SN.02 PATCH AND REPAIR FLOORING ALONG NEW WALL. INSTALL NEW RUBBER BASE.
  - SN.03 REPAIR (E) SUSPENDED ACOUSTICAL CEILING GRID AT NEW WALL AND WHERE HVAC DIFFUSERS ARE REMOVED. REPLACE ACOUSTICAL CEILING TILES AND INSULATION ABOVE CEILING AT SAME LOCATIONS. THREE DIFFUSERS TO BE REMOVED NOT SHOWN.

**KEYNOTES**

- 03300 CONCRETE
- 03300.A1 new concrete slab per structural, dowel into (e) slab.
- 05500 METAL
- 05500.A1 existing steel pipe column-paint.
- 06200 CARPENTRY
- 06200.A1 frame new walls shown shaded
- 06200.A2 frame and sheath over opening where door was removed.
- 06200.A3 frame and sheath over opening where skylight was removed.
- 06200.A4 (e) beam
- 07210 THERMAL INSULATION
- 07210.A1 R-38 insulation above acoustical ceiling.
- 07210.A2 R-21.5 insulation at walls.
- 07540 SINGLE PLY MEMBRANE ROOFING
- 07540.A1 (e) 80-mil single ply membrane roofing.
- 07540.A2 cut, patch and flash in new equipment curbs into existing single ply roofing system. see details 4/A&S.1.1 and 5/A&S.1.1.
- 07540.A3 cut and patch in roofing where skylight was removed.
- 07540.A4 (n) 80-mil walk pads shown shaded. see detail 3/A&S.1.1
- 07540.A5 heated stack, see detail 2/A&S.1.1
- 07540.A6 pipe vent, see detail 1/A&S.1.1
- 08000 WINDOWS AND DOORS
- 08000.A1 (e) door.
- 08000.A2 (n) hollow metal door, frame and hardware.
- 08000.A3 (n) hollow metal door and hardware in (e) hollow metal frame
- 09510 ACOUSTICAL CEILINGS
- 09510.A1 acoustical ceiling type A1-fine fissured.
- 09510.A2 acoustical ceiling type A2-vinyl rock.
- 09290 GYPSUM BOARD
- 09290.A1 gypsum wallboard-painted
- 09650 RESILIENT FLOORING AND BASE
- 09650.A1 vinyl composition tile
- 09650.A2 4" coved rubber base
- 09670 RESINOUS FLOORING
- 09670.A1 resinous flooring and wall coating
- 09670.A2 resinous flooring cove up wall 6"
- 09720 FIBERGLASS REINFORCED WALL PANELS
- 09720.A1 FRP wall panel type FRP1
- 10100 SIGNAGE
- 10100.A1 room identification signage per details 2A0.1 and 3/A0.1
- 10100.A2 occupancy sign; provide occupancy sign: "THE NUMBER OF PEOPLE PERMITTED IN THIS ROOM SHALL NOT EXCEED 406 ASSEMBLY AND 290 DINING".
- 10100.A3 tactile exit sign per detail 3/A0.1
- 10100.A4 not used
- 10100.A5 assistive listening device sign: to read "LISTENING DEVICE AVAILABLE".
- 10200 FURNITURE & EQUIPMENT
- 10200.A1 UL rated class K 2-A wet chemical fire extinguisher with 2.5 lb. capacity
- 11400 FOOD SERVICE EQUIPMENT
- 11400.A1 food service equipment
- 11400.A2 exhaust hood
- 11400.A3 stainless steel wall lining
- 11400.A4 side by side washer and dryer units - owner furnished, contractor installed. top loading machines shall have the door to the laundry compartment located 36 inches (914 mm) maximum above the finish floor. front loading machines shall have the bottom of the opening to the laundry compartment located 15 inches (381 mm) minimum and 36 inches (914 mm) maximum above the finish floor.
- 11520 PROJECTION SCREENS
- 11520.A1 type 1 electric operated projection screen with ceiling trim kit for recessed installation into suspended acoustical ceiling.
- 11502.A2 projector mount; universal suspended ceiling mount kit for mounting projector in suspended acoustical ceiling. projector only is OFCI (owner furnished, contractor installed)
- 22000 PLUMBING
- 22000.A1 water heater
- 22000.A2 floor sink
- 22000.A3 mop sink
- 23000 HEATING, VENTILATING AND AIR CONDITIONING
- 23000.A1 HVAC unit
- 23000.A2 duct diffusers
- 26000 ELECTRICAL GENERAL REQUIREMENTS
- 26000.A1 electrical panel
- 26000.A2 light fixture

FOODSERVICE EQUIPMENT IS SHOWN GHOSTED IN THE BACKGROUND. SEE FOODSERVICE, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

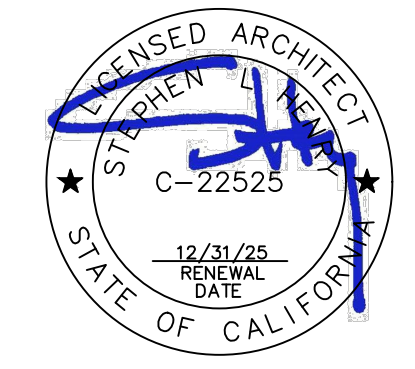


**2 ENLARGED DEMO PLAN**  
SCALE: 1/4" = 1'-0"  
0 2' 8'

**1 ENLARGED FLOOR PLAN**  
SCALE: 1/4" = 1'-0"  
0 2' 8'

ADD NOTE: CLASS I, II OR III-A FLAMMABLE LIQUIDS SHALL NOT BE PLACED, STORED OR USED IN GROUP E OCCUPANCIES, EXCEPT IN APPROVED QUANTITIES AS NECESSARY IN LABORATORIES AND CLASSROOMS AND FOR OPERATION AND MAINTENANCE AS SET FORTH IN THE CALIFORNIA FIRE CODE. CBC 452.1.6

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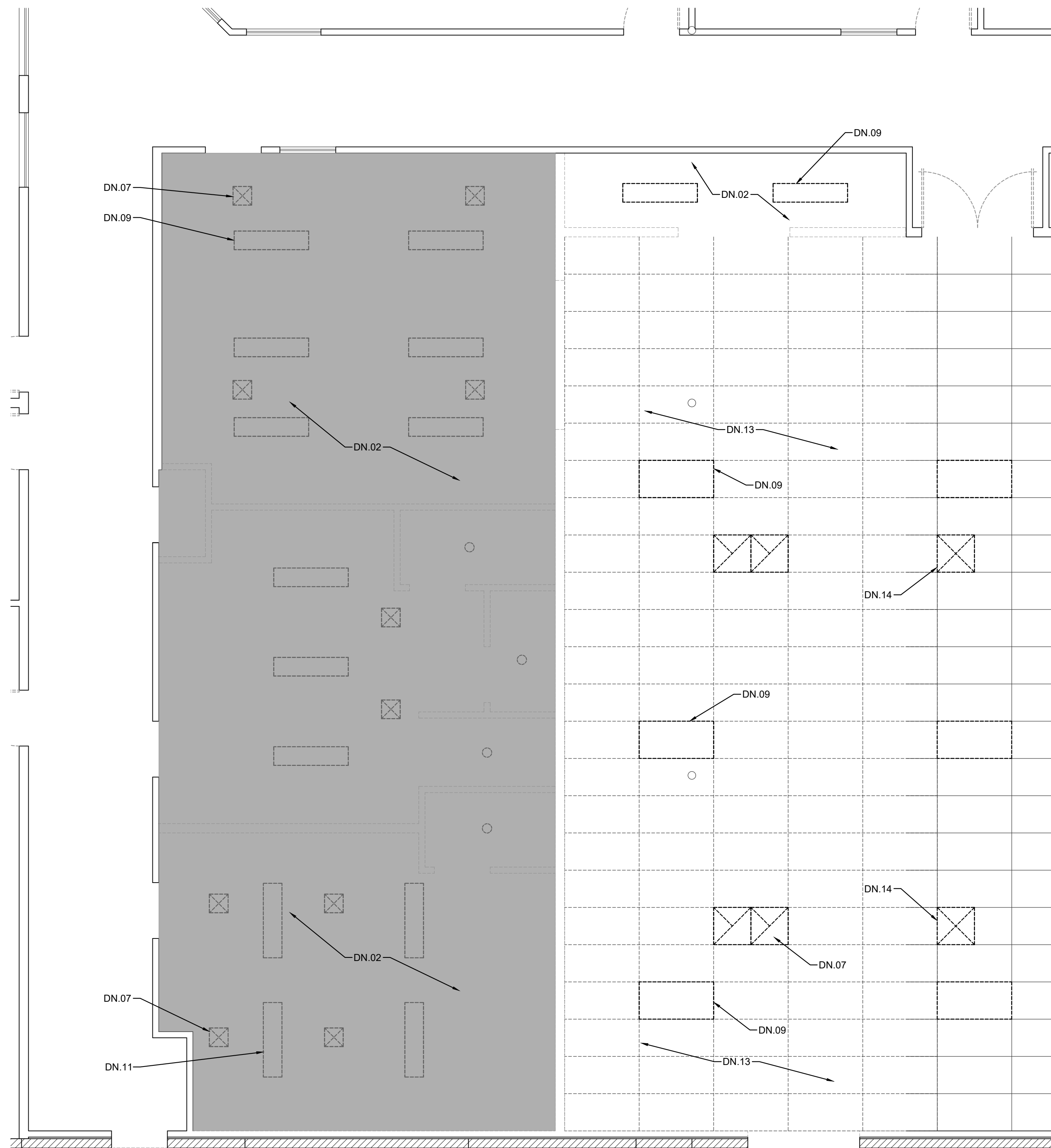


CULINARY LAB  
VENTURE ACADEMY

ENLARGED DEMO PLAN &  
FLOOR PLAN

PROJECT NO. 23-34-026	REVISIONS	BY
DATE 02/29/2024		
DRAWN SLH		
CHECKED SLH		
SCALE AS SHOWN		
CADFILE		
UPDATED		
SHEET NO.		

**A2.1.2**



**2 ENLARGED DEMO REFLECTED CEILING PLAN**  
 A2.1.3 SCALE: 1/4" = 1'-0" 0 2' 4' 8'

**GENERAL NOTES**

- THE DEMOLITION PLANS AND NOTES ARE GENERAL IN NATURE AND REPRESENT THE GENERAL DEMOLITION OR PROTECT-IN-PLACE SCOPE. IN EXISTING SPACES CONTRACTOR TO FIELD VERIFY QUANTITY AND LOCATION OF VARIOUS WALL OR CEILING MOUNTED ITEMS REQUIRED TO BE REMOVED OR PROTECTED IN PLACE AND MASKED FOR PAINTING. THE CONTRACTOR IS REQUIRED TO REMOVE OR PROTECT AND MASK IN PLACE ALL EXISTING DRY MARKER BOARDS, TACKBOARDS, CASEWORK, PROJECTION SCREENS, FIRE EXTINGUISHERS, WINDOW COVERINGS & TRACKS, LIGHT FIXTURES, FIRE ALARM DEVICES, INTERCOM SPEAKER OR ANY OTHER ITEM WHETHER SPECIFICALLY SHOWN OR NOT AND AS REQUIRED FOR INSTALLATION OF NEW FINISHES. SOME ITEMS WILL BE REQUIRED TO BE TEMPORARILY STORED AND PROTECTED FOR LATER INSTALLATION.
- NOT ALL OF THE EXISTING INTRUSION ALARM, DATA NETWORKING/DISTRIBUTION AND CLOCK/SPEAKER/INTERCOM COMPONENTS ARE SHOWN IN THE PLANS. THESE ITEMS ARE TO REMAIN AS INSTALLED AND SHALL BE MASKED USING PLASTIC SHEETING AND ANY OTHER PROTECTION MEASURES NECESSARY DURING CONSTRUCTION OPERATIONS AND PRIOR TO PAINTING. VERIFY WITH OWNER THE EXACT PROTECTION AND MASKING MEASURES AND LIMITATIONS PRIOR TO MASKING.

**DEMOLITION NOTES**

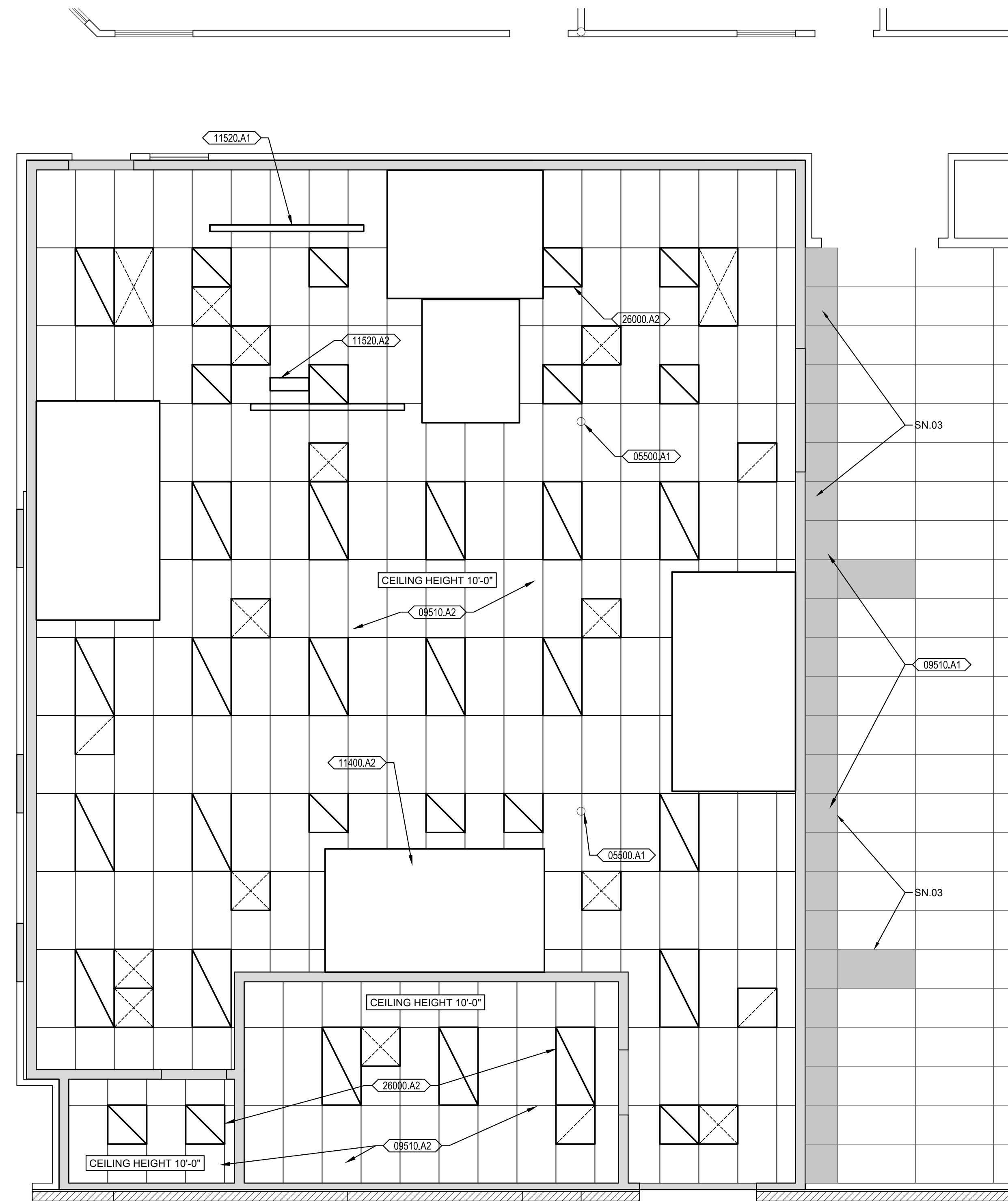
NOTE: NOT ALL NOTES MAY BE USED

- DN.01 REMOVE (E) WALL FINISHES AND FRAMING COMPLETELY SHOWN SHADED, INCLUDING DISCONNECT AND REMOVAL OF ALL ELECTRICAL, DATA, COMMUNICATIONS, FIRE ALARM, LIGHTING AND POWER DEVICES. SIMILARLY DISCONNECT AND REMOVE ALL PLUMBING AND MECHANICAL ITEMS LOCATED WITHIN WALL.
- DN.02 REMOVE (E) CEILING FINISHES AND FRAMING COMPLETELY SHOWN SHADED, INCLUDING DISCONNECT AND REMOVE ALL ELECTRICAL, DATA, COMMUNICATIONS, FIRE ALARM, LIGHTING AND POWER DEVICES. SIMILARLY DISCONNECT AND REMOVE ALL PLUMBING, MECHANICAL AND FIRE SPRINKLER ITEMS LOCATED IN AND ABOVE CEILING. SEE ELECTRICAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.03 REMOVE (E) DOOR, SIDELIGHT PANEL, TRANSOM GLAZING AND ENTIRE FRAME. PROTECT IN PLACE AND/OR SALVAGE ANY INTRUSION ALARM COMPONENTS FOR FUTURE INSTALLATION AND CONNECTION.
- DN.04 REMOVE (E) CASEWORK. DISCONNECT AND REMOVE ALL PLUMBING AND ELECTRICAL WITHIN CASEWORK.
- DN.05 REMOVE (E) FLOOR FINISHES.
- DN.06 SAWCUT AND REMOVE (E) CONCRETE SLAB FLOOR SHOWN HATCHED.
- DN.07 REMOVE (E) MECHANICAL GRILLES AND DUCTWORK ABOVE.
- DN.08 DISCONNECT AND REMOVE (E) WATER HEATER.
- DN.09 REMOVE (E) LIGHT FIXTURES AT CEILING TYPICAL - SEE ELECTRICAL.
- DN.10 DISCONNECT AND REMOVE (E) ROLL UP COUNTER DOOR.
- DN.11 DISCONNECT AND REMOVE (E) STOVE AND EXHAUST HOOD.
- DN.12 DISCONNECT AND REMOVE (E) PLUMBING FIXTURES, FLOOR SINKS, DRAINS, ETC.
- DN.13 REMOVE (E) SUSPENDED ACOUSTICAL CEILING PANELS AND GRID SYSTEM INCLUDING LIGHTING, FIRE SPRINKLERS AND MECHANICAL IN AND ABOVE CEILING. SEE ELECTRICAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.14 REMOVE (E) MECHANICAL GRILLES AND DUCTWORK ABOVE. THREE MORE LOCATIONS NOT SHOWN.
- DN.15 DISCONNECT AND REMOVE (E) MECHANICAL EQUIPMENT. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.16 REMOVE (E) SKYLIGHT AND CURB.
- DN.17 REMOVE (E) PAIR OF DOORS, FRAME TO REMAIN

**SHEET NOTES**

(NOTE: NOT ALL NOTES MAY BE USED)

- SN.01 (E) FLOOR FINISHES TO BE PROTECTED DURING CONSTRUCTION OPERATIONS
- SN.02 PATCH AND REPAIR FLOORING ALONG NEW WALL. INSTALL NEW RUBBER BASE.
- SN.03 REPAIR (E) SUSPENDED ACOUSTICAL CEILING GRID AT NEW WALL AND WHERE HVAC DIFFUSERS ARE REMOVED. REPLACE ACOUSTICAL CEILING TILES AND INSULATION ABOVE CEILING AT SAME LOCATIONS. THREE DIFFUSERS TO BE REMOVED NOT SHOWN.

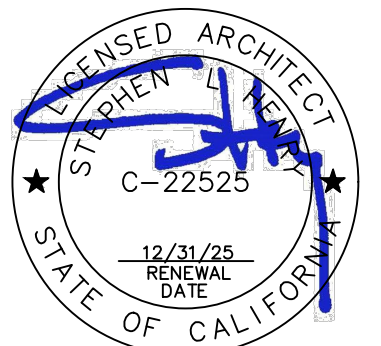


**1 ENLARGED REFLECTED CEILING PLAN**  
 A2.1.3 SCALE: 1/4" = 1'-0" 0 2' 4' 8'

**KEYNOTES**

03300	CONCRETE	08000.A2	(n) hollow metal door, frame and hardware	10200	FURNITURE & EQUIPMENT
03300.A1	new concrete slab per structural, dowel into (e) slab.	08000.A3	(n) hollow metal door and hardware in (e) hollow metal frame	10200.A1	UL rated class K 2-A wet chemical fire extinguisher with 2.5 lb. capacity
05500	METAL	09510.A1	ACOUSTICAL CEILING	11400	FOOD SERVICE EQUIPMENT
05500.A1	existing steel pipe column-paint.	09510.A2	acoustical ceiling type A1-fine fissured, acoustical ceiling type A2-vinyl rock.	11400.A1	food service equipment
06200	CARPENTRY	09510.A2	acoustical ceiling type A2-vinyl rock.	11400.A2	exhaust hood
06200.A1	frame new walls shown shaded	09290	GYPSON BOARD	11400.A3	stainless steel wall lining
06200.A2	frame and sheath over opening where door was removed.	09290.A1	gypsum wallboard-painted	11520	PROJECTION SCREENS
06200.A3	frame and sheath over opening where skylight was removed.	09650	RESILIENT FLOORING AND BASE	11520.A1	type 1 electric operated projection screen with ceiling trim kit for recessed installation into suspended acoustical ceiling.
06200.A4	(e) beam	09650.A1	vinyl composition tile	11520.A2	projector mount: universal suspended ceiling mount kit for mounting projector in suspended acoustical ceiling. projector only is OFCI (owner furnished, contractor installed)
06200.A5		09650.A2	4" coved rubber base	22000	PLUMBING
07210	THERMAL INSULATION	09670	RESINOUS FLOORING	22000.A1	water heater
07210.A1	R-38 insulation above acoustical ceiling.	09670.A1	resinous flooring and wall coating	22000.A2	floor sink
07210.A2	R-21.5 insulation at walls.	09670.A2	resinous flooring cove up wall 6"	22000.A3	mop sink
07540	SINGLE PLY MEMBRANE ROOFING	09720	FIBERGLASS REINFORCED WALL PANELS	23000	HEATING, VENTILATING AND AIR CONDITIONING
07540.A1	(e) 60-mil single ply membrane roofing.	09720.A1	FRP wall panel type FRP1	23000.A1	HVAC unit
07540.A2	cut, patch and flash in new equipment curbs into existing single ply roofing system. see details 4/A8.1.1 and 5/A8.1.1.	10100	SIGNAGE	23000.A2	duct diffusers
07540.A3	cut and patch in roofing where skylight was removed.	10100.A1	room identification signage per details 2A0.1 and 3/A0.1	26000	ELECTRICAL GENERAL REQUIREMENTS
07540.A4	(n) 80-mil walk pads shown shaded. see detail 3/A8.1.1	10100.A2	occupancy sign: provide occupancy sign: "THE NUMBER OF PEOPLE PERMITTED IN THIS ROOM SHALL NOT EXCEED 406 ASSEMBLY AND 290 DINING".	26000.A1	electrical panel
07540.A5	heated stack, see detail 2/A8.1.1	10100.A3	tactile exit sign per detail 3/A0.1	26000.A2	light fixture
07540.A6	pipe vent, see detail 1/A8.1.1	10100.A4	not used.		
08000	WINDOWS AND DOORS	10100.A5	assistive listening device sign: to read "LISTENING DEVICE AVAILABLE".		
08000.A1	(e) door.				

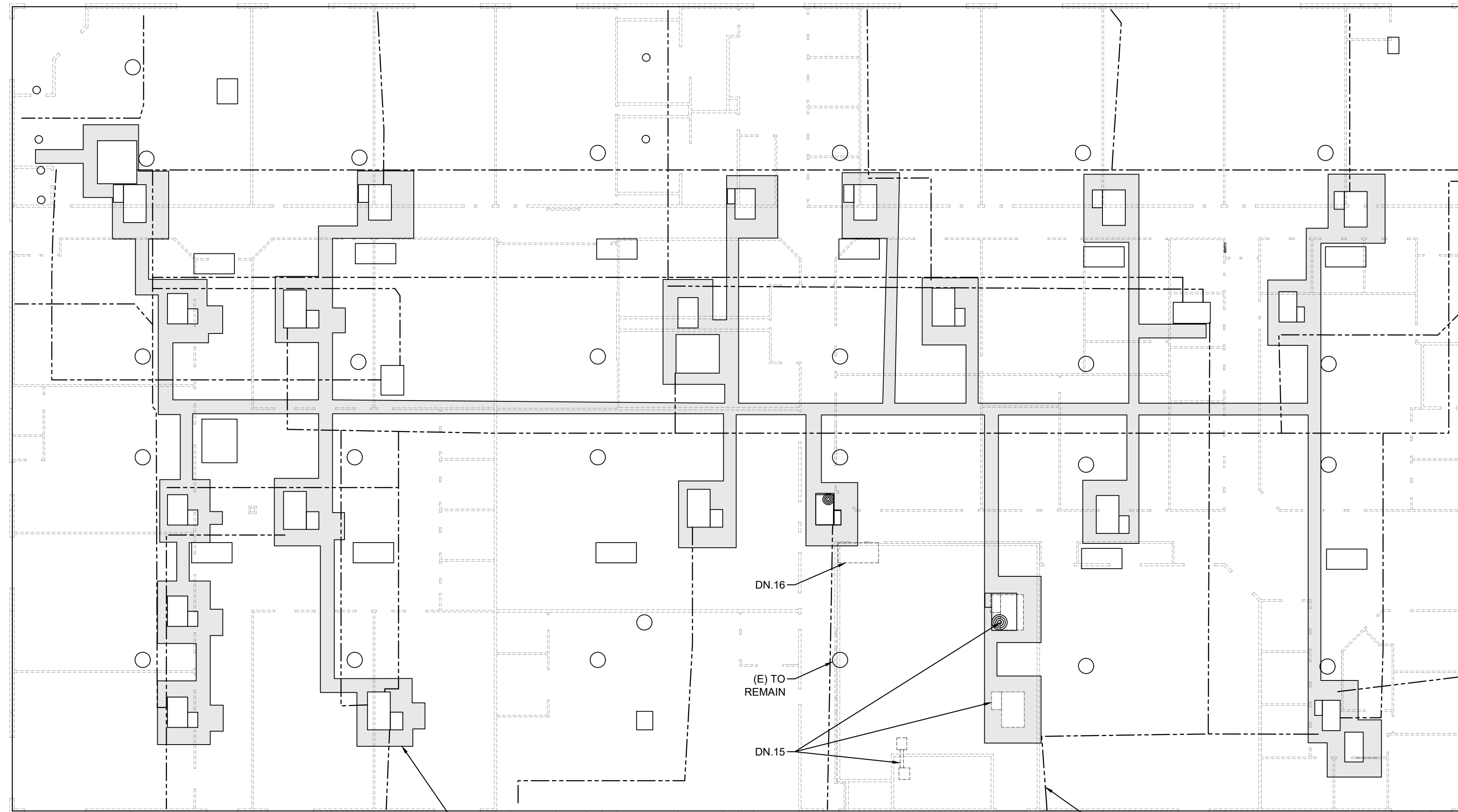
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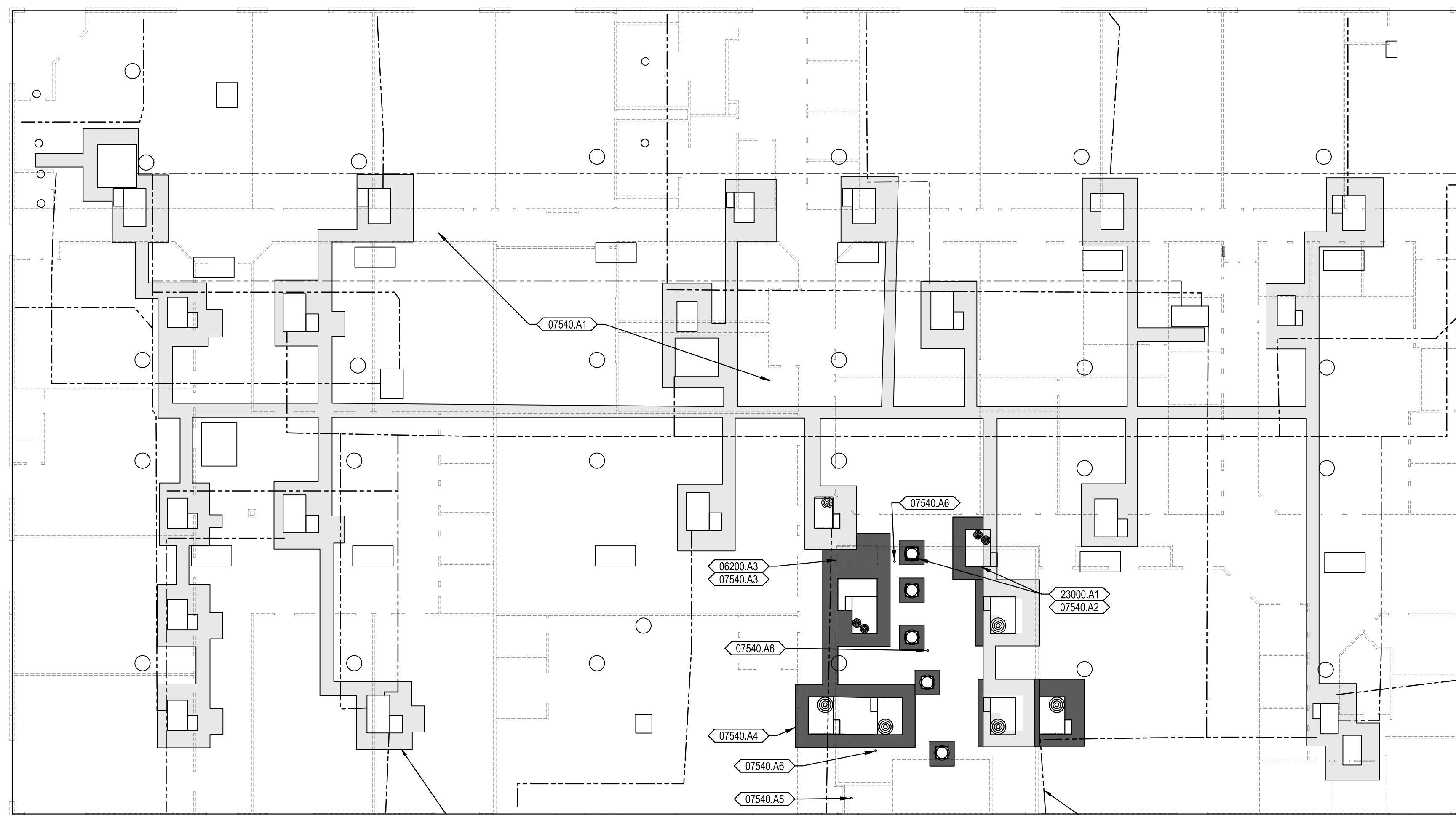
CULINARY LAB  
 VENTURE ACADEMY  
 ENLARGED  
 REFLECTED CEILING  
 PLANS

PROJECT NO.	REVISIONS	BY
23-34-026		
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<b>A2.1.3</b>		





**1 ROOF DEMOLITION PLAN**  
 SCALE: 1/16" = 1'-0"  
 0 4' 8'



**2 ROOF PLAN**  
 SCALE: 1/16" = 1'-0"  
 0 4' 8'

**GENERAL NOTES**

1. THE DEMOLITION PLANS AND NOTES ARE GENERAL IN NATURE AND REPRESENT THE GENERAL DEMOLITION OR PROTECT-IN-PLACE SCOPE. IN EXISTING SPACES CONTRACTOR TO FIELD VERIFY QUANTITY AND LOCATION OF VARIOUS WALL OR CEILING MOUNTED ITEMS REQUIRED TO BE REMOVED OR PROTECTED IN PLACE AND MASKED FOR PAINTING. THE CONTRACTOR IS REQUIRED TO REMOVE OR PROTECT AND MASK IN PLACE ALL EXISTING DRY MARKER BOARDS, TACKBOARDS, CASEWORK, PROJECTION SCREENS, FIRE EXTINGUISHERS, WINDOW COVERINGS & TRACKS, LIGHT FIXTURES, FIRE ALARM DEVICES, INTERCOM SPEAKER OR ANY OTHER ITEM WHETHER SPECIFICALLY SHOWN OR NOT AND AS REQUIRED FOR INSTALLATION OF NEW FINISHES. SOME ITEMS WILL BE REQUIRED TO BE TEMPORARILY STORED AND PROTECTED FOR LATER INSTALLATION.
2. NOT ALL OF THE EXISTING INTRUSION ALARM, DATA NETWORKING/DISTRIBUTION AND CLOCK/SPEAKER/INTERCOM COMPONENTS ARE SHOWN IN THE PLANS. THESE ITEMS ARE TO REMAIN AS INSTALLED AND SHALL BE MASKED USING PLASTIC SHEETING AND ANY OTHER PROTECTION MEASURES NECESSARY DURING CONSTRUCTION OPERATIONS AND PRIOR TO PAINTING. VERIFY WITH OWNER THE EXACT PROTECTION AND MASKING MEASURES AND LIMITATIONS PRIOR TO MASKING.

**DEMOLITION NOTES**

- NOTE: NOT ALL NOTES MAY BE USED
- DN.01 REMOVE (E) WALL FINISHES AND FRAMING COMPLETELY SHOWN SHADED, INCLUDING DISCONNECT AND REMOVAL OF ALL ELECTRICAL DATA, COMMUNICATIONS, FIRE ALARM, LIGHTING AND POWER DEVICES. SIMILARLY DISCONNECT AND REMOVE ALL PLUMBING AND MECHANICAL ITEMS LOCATED WITHIN WALL.
  - DN.02 REMOVE (E) CEILING FINISHES AND FRAMING COMPLETELY SHOWN SHADED, INCLUDING DISCONNECT AND REMOVE ALL ELECTRICAL DATA, COMMUNICATIONS, FIRE ALARM, LIGHTING AND POWER DEVICES. SIMILARLY DISCONNECT AND REMOVE ALL PLUMBING, MECHANICAL AND FIRE SPRINKLER ITEMS LOCATED IN AND ABOVE CEILING. SEE ELECTRICAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
  - DN.03 REMOVE (E) CASEWORK, SIDELIGHT PANEL, TRANSOM GLAZING AND ENTIRE FRAME. PROTECT IN PLACE AND/OR SALVAGE ANY INTRUSION ALARM COMPONENTS FOR FUTURE INSTALLATION AND CONNECTION.
  - DN.04 REMOVE (E) CASEWORK. DISCONNECT AND REMOVE ALL PLUMBING AND ELECTRICAL WITHIN CASEWORK.
  - DN.05 REMOVE (E) FLOOR FINISHES.
  - DN.06 SAWCUT AND REMOVE (E) CONCRETE SLAB FLOOR SHOWN HATCHED.
  - DN.07 REMOVE (E) MECHANICAL GRILLES AND DUCTWORK ABOVE.
  - DN.08 DISCONNECT AND REMOVE (E) WATER HEATER.
  - DN.09 REMOVE (E) LIGHT FIXTURES AT CEILING TYPICAL - SEE ELECTRICAL.
  - DN.10 DISCONNECT AND REMOVE (E) ROLL UP COUNTER DOOR.
  - DN.11 DISCONNECT AND REMOVE (E) STOVE AND EXHAUST HOOD.
  - DN.12 DISCONNECT AND REMOVE (E) PLUMBING FIXTURES, FLOOR SINKS, DRAINS, ETC.
  - DN.13 REMOVE (E) SUSPENDED ACOUSTICAL CEILING PANELS AND GRID SYSTEM INCLUDING LIGHTING, FIRE SPRINKLERS AND MECHANICAL IN AND ABOVE CEILING. SEE ELECTRICAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
  - DN.14 REMOVE (E) MECHANICAL GRILLES AND DUCTWORK ABOVE. THREE MORE LOCATIONS NOT SHOWN.
  - DN.15 DISCONNECT AND REMOVE (E) MECHANICAL EQUIPMENT. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
  - DN.16 REMOVE (E) SKYLIGHT AND CURB.
  - DN.17 REMOVE (E) PAIR OF DOORS, FRAME TO REMAIN.

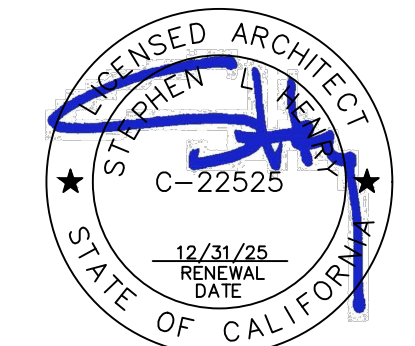
**SHEET NOTES**

- (NOTE: NOT ALL NOTES MAY BE USED)
- SN.01 (E) FLOOR FINISHES TO BE PROTECTED DURING CONSTRUCTION OPERATIONS.
  - SN.02 PATCH AND REPAIR FLOORING ALONG NEW WALL. INSTALL NEW RUBBER BASE.
  - SN.03 REPAIR (E) SUSPENDED ACOUSTICAL CEILING GRID AT NEW WALL AND WHERE HVAC DIFFUSERS ARE REMOVED. REPAIR ACOUSTICAL CEILING TILES AND INSULATION ABOVE CEILING AT SAME LOCATIONS. THREE DIFFUSERS TO BE REMOVED NOT SHOWN.

**KEYNOTES**

- 03300 CONCRETE
  - 03300.A1 new concrete slab per structural, dowel into (e) slab.
- 05500 METAL
  - 05500.A1 existing steel pipe column-paint.
- 06200 CARPENTRY
  - 06200.A1 frame new walls shown shaded
  - 06200.A2 frame and sheath over opening where door was removed.
  - 06200.A3 frame and sheath over opening where skylight was removed.
  - 06200.A4 (e) beam
- 07210 THERMAL INSULATION
  - 07210.A1 R-38 insulation above acoustical ceiling.
  - 07210.A2 R-21.5 insulation at walls.
- 07540 SINGLE PLY MEMBRANE ROOFING
  - 07540.A1 (e) 80-mil single ply membrane roofing.
  - 07540.A2 cut, patch and flash in new equipment curbs into existing single ply roofing system. see details 4/A8.1.1 and 5/A8.1.1.
  - 07540.A3 cut and patch in roofing where skylight was removed.
  - 07540.A4 (n) 80-mil walk pads shown shaded. see detail 2/A8.1.1
  - 07540.A5 heated stack. see detail 2/A8.1.1
  - 07540.A6 pipe vent. see detail 1/A8.1.1
- 08000 WINDOWS AND DOORS
  - 08000.A1 (e) door.
  - 08000.A2 (n) hollow metal door, frame and hardware.
  - 08000.A3 (n) hollow metal door and hardware in (e) hollow metal frame
- 09510 ACOUSTICAL CEILINGS
  - 09510.A1 acoustical ceiling type A1-fine fissured.
  - 09510.A2 acoustical ceiling type A2-vinyl rock.
- 09290 GYPSUM BOARD
  - 09290.A1 gypsum wallboard-painted
- 09650 RESILIENT FLOORING AND BASE
  - 09650.A1 vinyl composition tile
  - 09650.A2 4" coved rubber base
- 09670 RESINOUS FLOORING
  - 09670.A1 resinous flooring and wall coating
  - 09670.A2 resinous flooring cove up wall 6"
- 09720 FIBERGLASS REINFORCED WALL PANELS
  - 09720.A1 FRP wall panel type FRP1
- 10100 SIGNAGE
  - 10100.A1 room identification signage per details 2A0.1 and 3/A0.1
  - 10100.A2 occupancy sign. provide occupancy sign: "THE NUMBER OF PEOPLE PERMITTED IN THIS ROOM SHALL NOT EXCEED 406 ASSEMBLY AND 290 DINING".
  - 10100.A3 tactile exit sign per detail 3/A0.1
  - 10100.A4 not used.
  - 10100.A5 assistive listening device sign: to read "LISTENING DEVICE AVAILABLE".
- 10200 FURNITURE & EQUIPMENT
  - 10200.A1 UL rated class K 2-A wet chemical fire extinguisher with 2.5 lb. capacity
- 11400 FOOD SERVICE EQUIPMENT
  - 11400.A1 food service equipment
  - 11400.A2 exhaust hood
  - 11400.A3 stainless steel wall lining
  - 11400.A4 side by side washer and dryer units - owner furnished, contractor installed. top loading machines shall have the door to the laundry compartment located 36 inches (914 mm) maximum above the finish floor. front loading machines shall have the bottom of the opening to the laundry compartment located 15 inches (381 mm) minimum and 36 inches (914 mm) maximum above the finish floor.
- 11520 PROJECTION SCREENS
  - 11520.A1 type 1 electric operated projection screen with ceiling trim kit for recessed installation into suspended acoustical ceiling.
  - 11520.A2 projector mount. universal suspended ceiling mount kit for mounting projector in suspended acoustical ceiling. projector only is OFCI (owner furnished, contractor installed)
- 22000 PLUMBING
  - 22000.A1 water heater
  - 22000.A2 floor sink
  - 22000.A3 mop sink
- 23000 HEATING, VENTILATING AND AIR CONDITIONING
  - 23000.A1 HVAC unit
  - 23000.A2 duct diffusers
- 26000 ELECTRICAL GENERAL REQUIREMENTS
  - 26000.A1 electrical panel
  - 26000.A2 light fixture

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 Sacramento, CA 95825  
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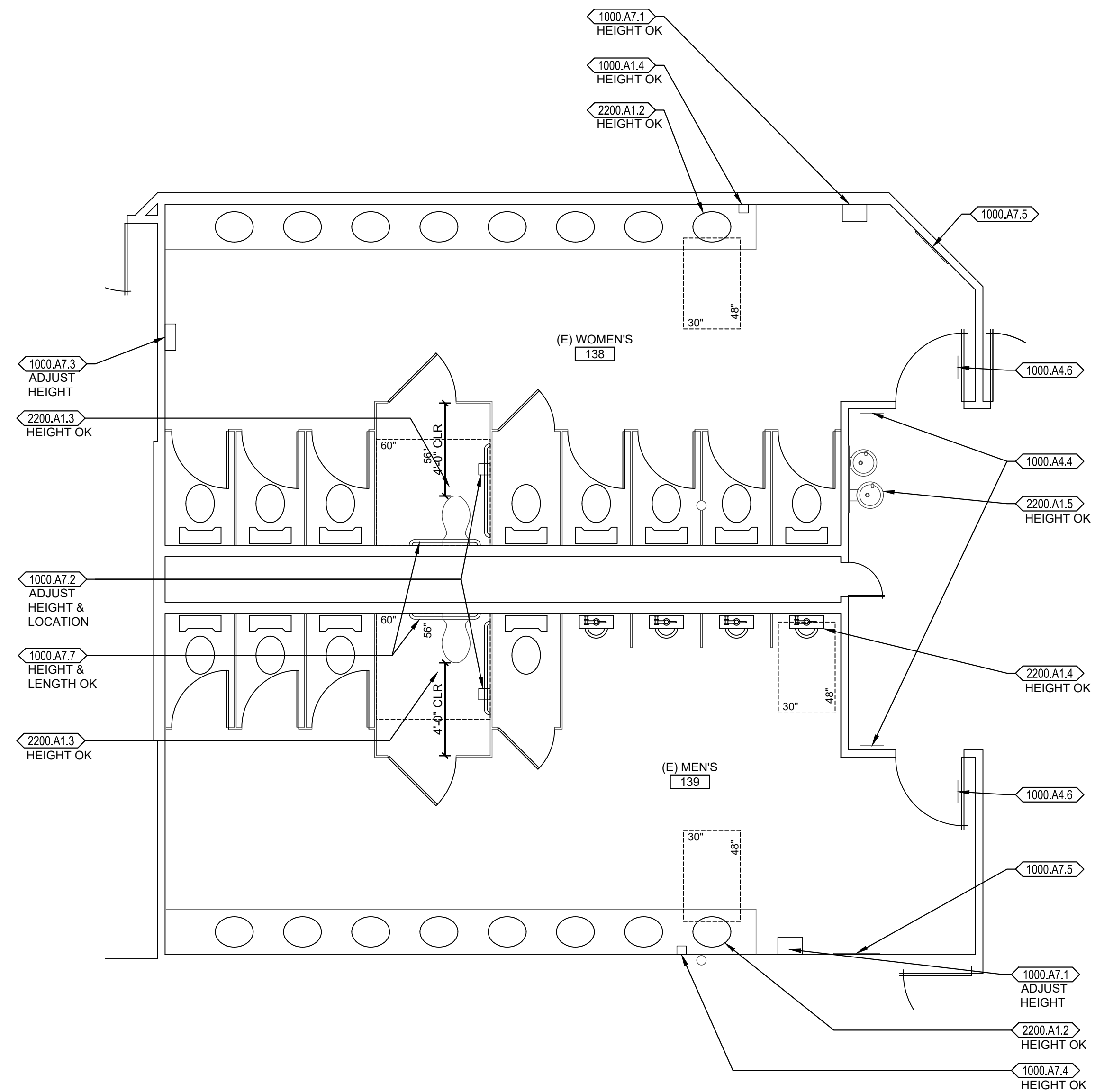
CULINARY LAB  
 VENTURE ACADEMY  
 ROOF DEMOLITION PLAN &  
 ROOF PLAN

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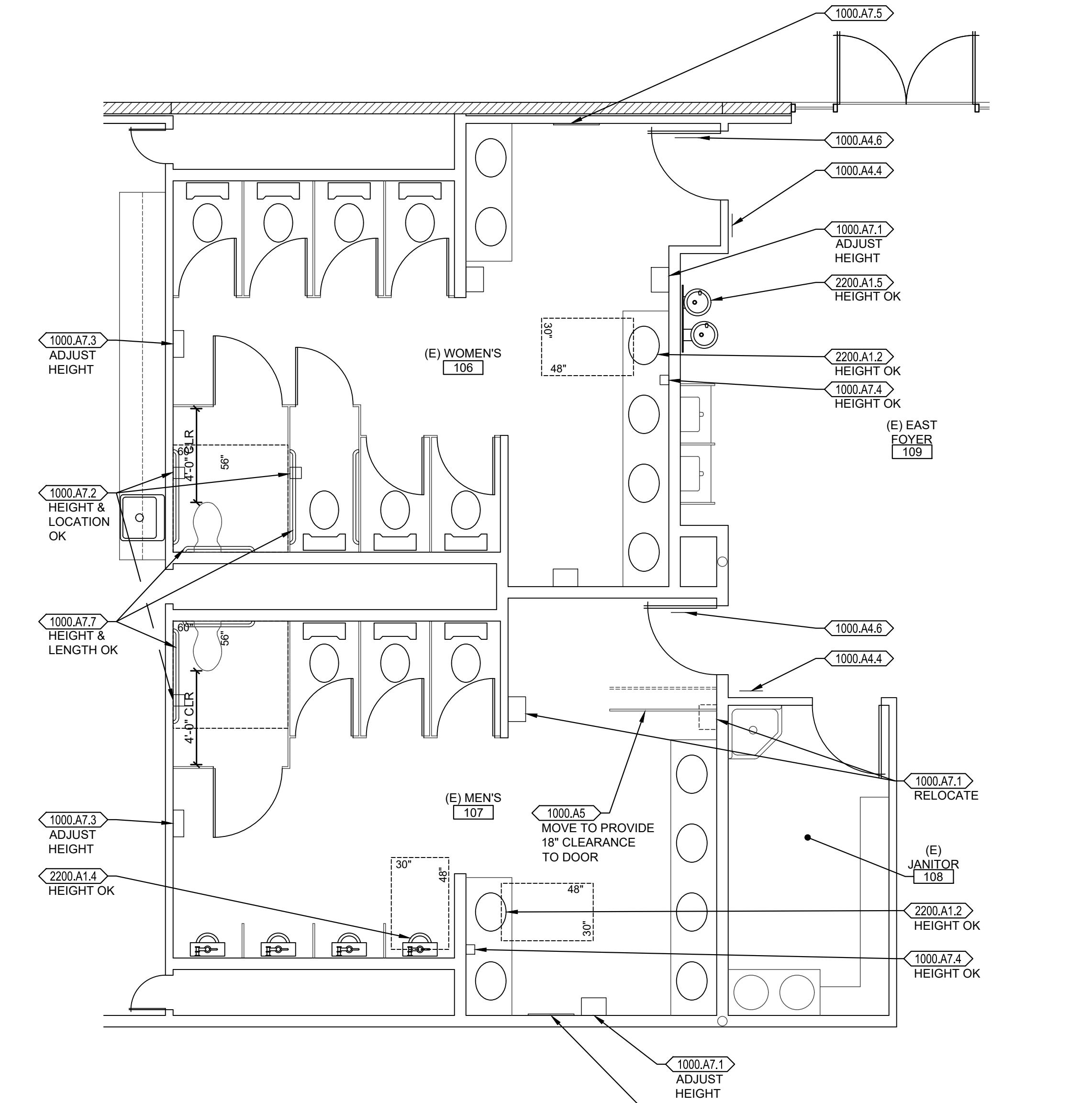
**A2.1.4**

### KEYNOTES

- 1000 SPECIALTIES**
- 1000.A4 SIGNS
- .3 (N) ROOM IDENTIFICATION SIGN PER DETAIL 2/A0.1
  - .4 (N) TOILET ROOM IDENTIFICATION SIGN PER DETAIL 2/A0.1
  - .5 (N) TACTILE EXIT SIGN PER DETAIL 3/A0.1
  - .6 (N) TOILET ROOM DOOR SYMBOL PER DETAIL 2/A0.1
- 1000.A5 (E) TOILET PARTITION
- 1000.A7 TOILET ACCESSORIES
- .1 (E) PAPER TOWEL DISPENSER
  - .2 (E) TOILET PAPER DISPENSER
  - .3 (E) SANITARY NAPKIN DISPENSER
  - .4 (E) SOAP DISPENSER
  - .5 (N) BOBRICK B-165 WALL MOUNTED MIRROR 24"X36" - SET BOTTOM HEIGHT AT 36" ABOVE FLOOR
  - .6 (E) SANITARY NAPKIN RECEPTACLE
  - .7 (E) GRAB BAR
  - .8 (E) SHELF
  - .9 (E) MOP RACK
  - .10 (E) BABY CHANGING STATION
  - .11 (E) TOILET SEAT COVER DISPENSER
  - .12 (E) WASTE RECEPTACLE - RECESSED
  - .13 (E) WASTE RECEPTACLE - FREE STANDING
- 1000.A9 FIRE EXTINGUISHER
- 2200 PLUMBING**
- 2200.A1 PLUMBING EQUIPMENT
- .1 (E) SINK
  - .2 (E) LAVATORY - INSTALL RIGID INSULATION JACKET AT HOT AND COLD WATER AND WASTE LINES
  - .3 (E) TOILET
  - .4 (E) URINAL
  - .5 (E) DUAL HEIGHT DRINKING FOUNTAIN/BOTTLE FILLER
  - .13 (E) BOTTLE FILLER



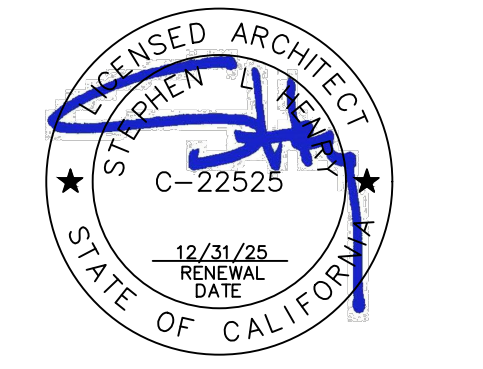
**1 (E) STUDENT RESTROOMS**  
 A2.1.5 SCALE: 1/4" = 1'-0"



**2 (E) STAFF RESTROOMS**  
 A2.1.5 SCALE: 1/4" = 1'-0"

CONTRACTOR TO PATCH, REPAIR AND PAINT WALLS AND FINISHES WHERE ACCESSORIES ARE RELOCATED. COLORS TO MATCH EXISTING. PAINT ENTIRE WALLS.

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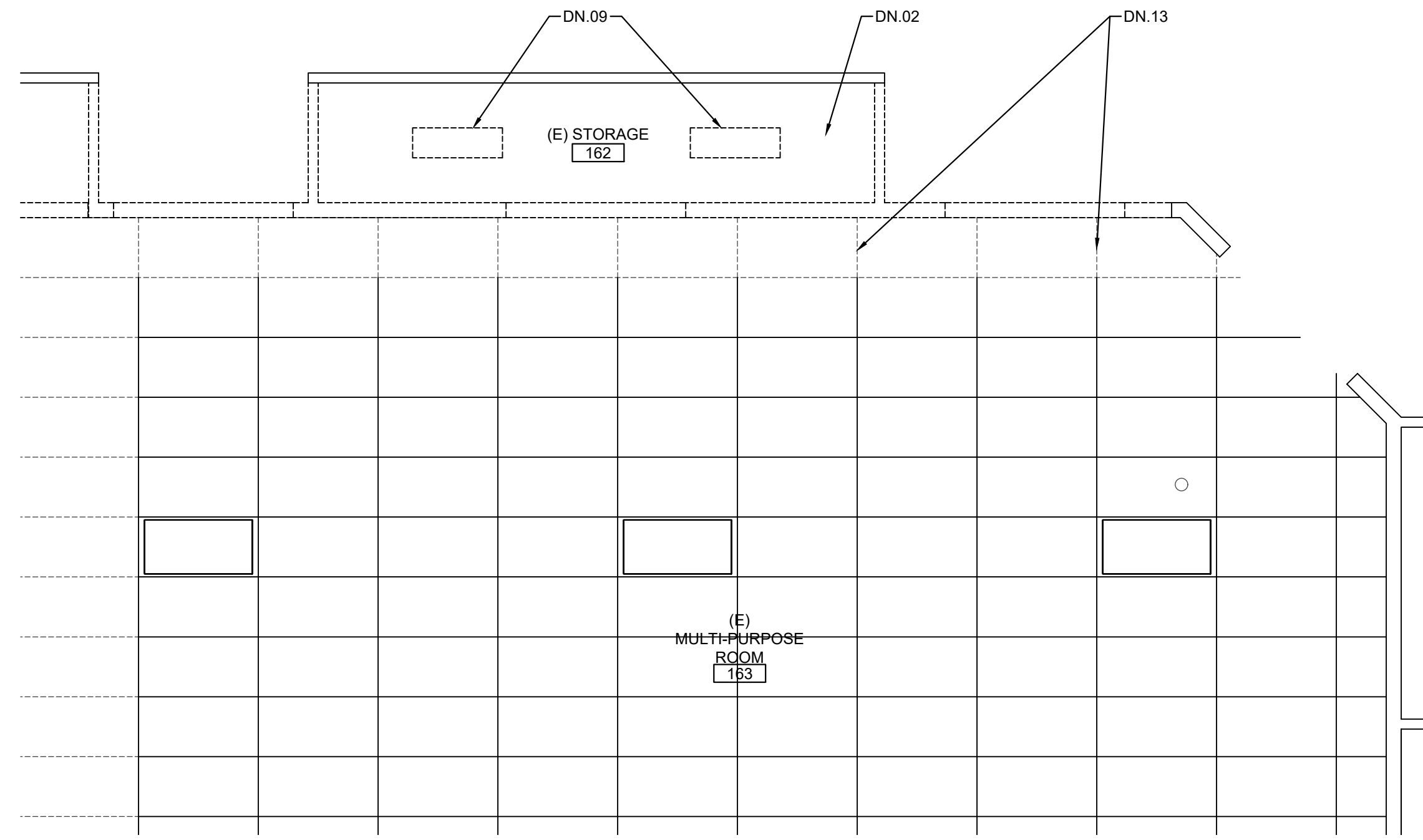


CULINARY LAB  
 VENTURE ACADEMY  
 ENLARGED RESTROOM  
 FLOOR PLANS

CONSULTANT

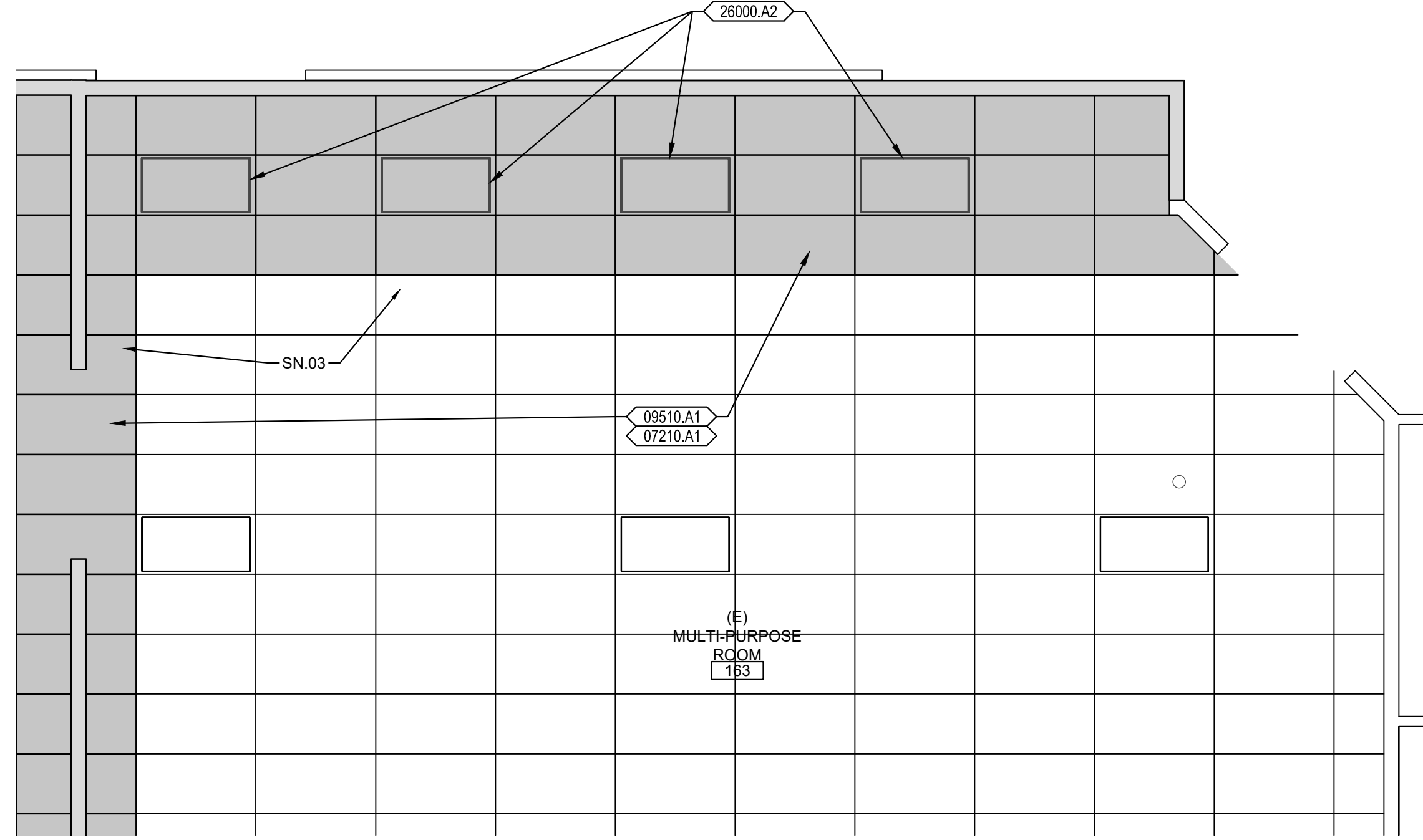
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**A2.1.5**



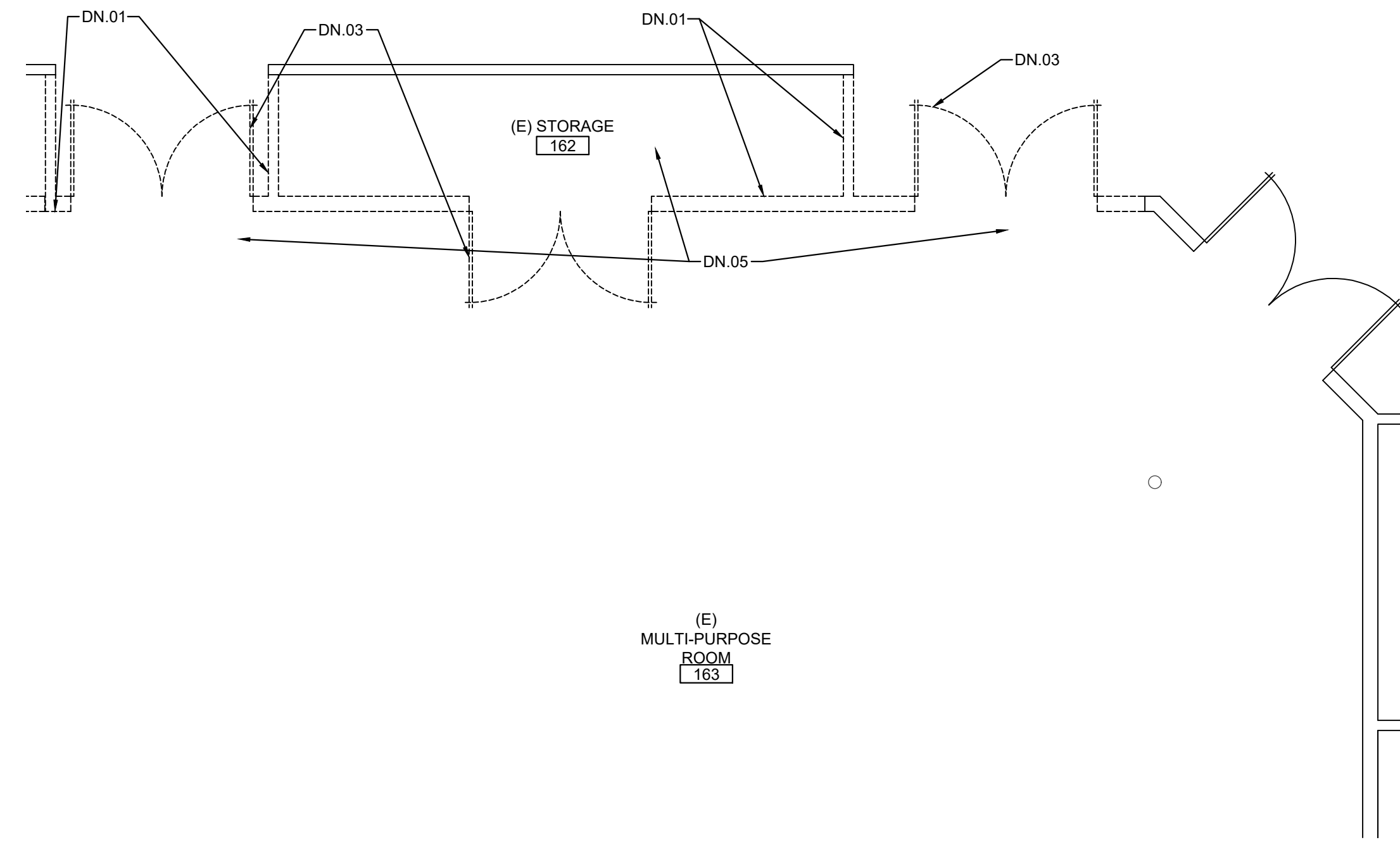
**4 ENLARGED DEMO REFLECTED CEILING PLAN**

A2.1.6 SCALE: 1/4" = 1'-0" 0 2' 8'



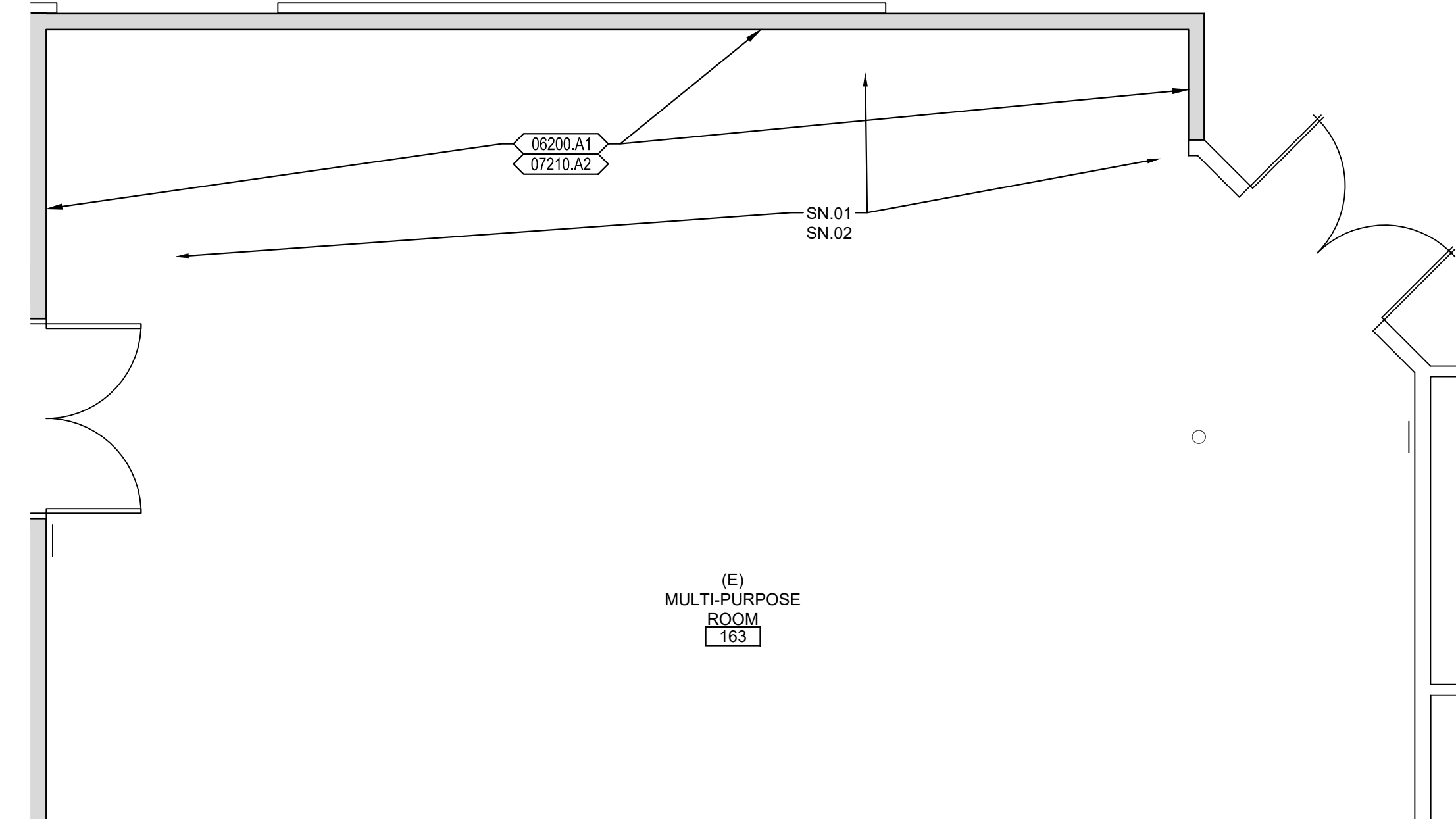
**3 ENLARGED DEMO REFLECTED CEILING PLAN**

A2.1.6 SCALE: 1/4" = 1'-0" 0 2' 8'



**2 ENLARGED DEMO PLAN**

A2.1.6 SCALE: 1/4" = 1'-0" 0 2' 8'



**1 ENLARGED FLOOR PLAN**

A2.1.6 SCALE: 1/4" = 1'-0" 0 2' 8'

**GENERAL NOTES**

1. THE DEMOLITION PLANS AND NOTES ARE GENERAL IN NATURE AND REPRESENT THE GENERAL DEMOLITION OR PROTECT-IN-PLACE SCOPE. IN EXISTING SPACES CONTRACTOR TO FIELD VERIFY QUANTITY AND LOCATION OF VARIOUS WALL OR CEILING MOUNTED ITEMS REQUIRED TO BE REMOVED OR PROTECTED IN PLACE AND MASKED FOR PAINTING. THE CONTRACTOR IS REQUIRED TO REMOVE OR PROTECT AND MASK IN PLACE ALL EXISTING DRY MARKER BOARDS, TACKBOARDS, CASEWORK, PROJECTION SCREENS, FIRE EXTINGUISHERS, WINDOW COVERINGS & TRACKS, LIGHT FIXTURES, FIRE ALARM DEVICES, INTERCOM SPEAKER OR ANY OTHER ITEM WHETHER SPECIFICALLY SHOWN OR NOT AND AS REQUIRED FOR INSTALLATION OF NEW FINISHES. SOME ITEMS WILL BE REQUIRED TO BE TEMPORARILY STORED AND PROTECTED FOR LATER INSTALLATION.
2. NOT ALL OF THE EXISTING INTRUSION ALARM, DATA NETWORKING/DISTRIBUTION AND CLOCK/SPEAKER/INTERCOM COMPONENTS ARE SHOWN IN THE PLANS. THESE ITEMS ARE TO REMAIN AS INSTALLED AND SHALL BE MASKED USING PLASTIC SHEETING AND ANY OTHER PROTECTION MEASURES NECESSARY DURING CONSTRUCTION OPERATIONS AND PRIOR TO PAINTING. VERIFY WITH OWNER THE EXACT PROTECTION AND MASKING MEASURES AND LIMITATIONS PRIOR TO MASKING.

**DEMOLITION NOTES**

- NOTE: NOT ALL NOTES MAY BE USED
- DN.01 REMOVE (E) WALL FINISHES AND FRAMING COMPLETELY SHOWN SHADED, INCLUDING DISCONNECT AND REMOVAL OF ALL ELECTRICAL DATA, COMMUNICATIONS, FIRE ALARM, LIGHTING AND POWER DEVICES. SIMILARLY DISCONNECT AND REMOVE ALL PLUMBING AND MECHANICAL ITEMS LOCATED WITHIN WALL.
  - DN.02 REMOVE (E) CEILING FINISHES AND FRAMING COMPLETELY SHOWN SHADED, INCLUDING DISCONNECT AND REMOVE ALL ELECTRICAL DATA, COMMUNICATIONS, FIRE ALARM, LIGHTING AND POWER DEVICES. SIMILARLY DISCONNECT AND REMOVE ALL PLUMBING, MECHANICAL AND FIRE SPRINKLER ITEMS LOCATED IN AND ABOVE CEILING. SEE ELECTRICAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
  - DN.03 REMOVE (E) DOOR, SIDELIGHT PANEL, TRANSOM GLAZING AND ENTIRE FRAME. PROTECT IN PLACE AND/OR SALVAGE ANY INTRUSION ALARM COMPONENTS FOR FUTURE INSTALLATION AND CONNECTION.
  - DN.04 REMOVE (E) CASEWORK. DISCONNECT AND REMOVE ALL PLUMBING AND ELECTRICAL WITHIN CASEWORK.
  - DN.05 REMOVE (E) FLOOR FINISHES, GRIND, PATCH, FILL AND PREP EXISTING CONCRETE FLOOR TO ACCEPT NEW FLOOR FINISHED AS NEEDED.
  - DN.06 SAWCUT AND REMOVE (E) CONCRETE SLAB FLOOR SHOWN HATCHED.
  - DN.07 REMOVE (E) MECHANICAL GRILLES AND DUCTWORK ABOVE.
  - DN.08 DISCONNECT AND REMOVE (E) WATER HEATER.
  - DN.09 REMOVE (E) LIGHT FIXTURES AT CEILING TYPICAL - SEE ELECTRICAL.
  - DN.10 DISCONNECT AND REMOVE (E) ROLL UP COUNTER DOOR.
  - DN.11 DISCONNECT AND REMOVE (E) STOVE AND EXHAUST HOOD.
  - DN.12 DISCONNECT AND REMOVE (E) PLUMBING FIXTURES, FLOOR SINKS, DRAINS, ETC.
  - DN.13 REMOVE (E) SUSPENDED ACOUSTICAL CEILING PANELS AND GRID SYSTEM INCLUDING LIGHTING, FIRE SPRINKLERS AND MECHANICAL IN AND ABOVE CEILING. SEE ELECTRICAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
  - DN.14 REMOVE (E) MECHANICAL GRILLES AND DUCTWORK ABOVE. THREE MORE LOCATIONS NOT SHOWN.
  - DN.15 DISCONNECT AND REMOVE (E) MECHANICAL EQUIPMENT. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
  - DN.16 REMOVE (E) SKYLIGHT AND CURB.
  - DN.17 REMOVE (E) PAIR OF DOORS, FRAME TO REMAIN.

**SHEET NOTES**

- (NOTE: NOT ALL NOTES MAY BE USED)
- SN.01 (E) FLOOR FINISHES TO BE PROTECTED DURING CONSTRUCTION OPERATIONS. PATCH AND REPLACE NEW FLOOR FINISHES TO MATCH EXISTING IN EXPANDED AREAS.
  - SN.02 PATCH AND REPAIR FLOORING ALONG NEW WALL. INSTALL NEW RUBBER BASE.
  - SN.03 REPAIR (E) SUSPENDED ACOUSTICAL CEILING GRID AT NEW WALL AND WHERE HVAC DIFFUSERS ARE REMOVED. REPLACE ACOUSTICAL CEILING TILES AND INSULATION ABOVE CEILING AT SAME LOCATIONS. THREE DIFFUSERS TO BE REMOVED NOT SHOWN.

**KEYNOTES**

- 03300 CONCRETE
  - 03300.A1 new concrete slab per structural, dowel into (e) slab.
- 05500 METAL
  - 05500.A1 existing steel pipe column-paint.
- 06200 CARPENTRY
  - 06200.A1 frame new walls shown shaded
  - 06200.A2 frame and sheath over opening where door was removed.
  - 06200.A3 frame and sheath over opening where skylight was removed.
  - 06200.A4 (e) beam
- 07210 THERMAL INSULATION
  - 07210.A1 R-38 insulation above acoustical ceiling.
  - 07210.A2 R-21.5 insulation at walls.
- 07540 SINGLE PLY MEMBRANE ROOFING
  - 07540.A1 (e) 80-mil single ply membrane roofing.
  - 07540.A2 cut, patch and flash in new equipment curbs into existing single ply roofing system. see details 4/A8.1.1 and 5/A8.1.1.
  - 07540.A3 cut and patch in roofing where skylight was removed.
  - 07540.A4 (n) 80-mil walk pads shown shaded. see detail 3/A8.1.1
  - 07540.A5 heated stack, see detail 2/A8.1.1
  - 07540.A6 pipe vent, see detail 1/A8.1.1
- 08000 WINDOWS AND DOORS
  - 08000.A1 (e) door.
  - 08000.A2 (n) hollow metal door, frame and hardware.
  - 08000.A3 (n) hollow metal door and hardware in (e) hollow metal frame
- 09510 ACOUSTICAL CEILINGS
  - 09510.A1 acoustical ceiling type A1-fine fissured.
  - 09510.A2 acoustical ceiling type A2-vinyl rock.
- 09290 GYPSUM BOARD
  - 09290.A1 gypsum wallboard-painted
- 09650 RESILIENT FLOORING AND BASE
  - 09650.A1 vinyl composition tile
  - 09650.A2 4" covered rubber base
- 09670 RESINOUS FLOORING
  - 09670.A1 resinous flooring and wall coating
  - 09670.A2 resinous flooring cove up wall 6"
- 09720 FIBERGLASS REINFORCED WALL PANELS
  - 09720.A1 FRP wall panel type FRP1
- 10100 SIGNAGE
  - 10100.A1 room identification signage per details 2A0.1 and 3/A0.1
  - 10100.A2 occupancy sign; provide occupancy sign: "THE NUMBER OF PEOPLE PERMITTED IN THIS ROOM SHALL NOT EXCEED 406 ASSEMBLY AND 290 DINING"
  - 10100.A3 tactile exit sign per detail 3/A0.1
  - 10100.A4 not used.
  - 10100.A5 assistive listening device sign: to read "LISTENING DEVICE AVAILABLE".
- 10200 FURNITURE & EQUIPMENT
  - 10200.A1 UL rated class K 2-A wet chemical fire extinguisher with 2.5 lb. capacity
- 11400 FOOD SERVICE EQUIPMENT
  - 11400.A1 food service equipment
  - 11400.A2 exhaust hood
  - 11400.A3 stainless steel wall lining
  - 11400.A4 side by side washer and dryer units - owner furnished, contractor installed. top loading machines shall have the door to the laundry compartment located 36 inches (914 mm) maximum above the finish floor. front loading machines shall have the bottom of the opening to the laundry compartment located 15 inches (381 mm) minimum and 36 inches (914 mm) maximum above the finish floor.
- 11520 PROJECTION SCREENS
  - 11520.A1 type 1 electric operated projection screen with ceiling trim kit for recessed installation into suspended acoustical ceiling.
  - 11520.A2 projector mount: universal suspended ceiling mount kit for mounting projector in suspended acoustical ceiling. projector only is OFCI (owner furnished, contractor installed)
- 22000 PLUMBING
  - 22000.A1 water heater
  - 22000.A2 floor sink
  - 22000.A3 mop sink
- 23000 HEATING, VENTILATING AND AIR CONDITIONING
  - 23000.A1 HVAC unit
  - 23000.A2 duct diffusers
- 26000 ELECTRICAL GENERAL REQUIREMENTS
  - 26000.A1 electrical panel
  - 26000.A2 light fixture

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CULINARY LAB  
 VENTURE ACADEMY

ENLARGED PLANS -  
 MULTIPURPOSE

PROJECT NO.	REVISIONS	BY
23-34-026		
DATE		
04/12/2024		
DRAWN		
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CHECKED		
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AS SHOWN		
CADFILE		
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SHEET NO.		

**A2.1.6**

DOOR SCHEDULE																
BUILDING, ROOM NAME & ROOM NUMBER	DOOR MARK	DOOR SIZE WIDTH X HEIGHT	DOOR							FRAME			DETAILS			
			TYPE	MATERIAL	FINISH	GLAZING	FIRE RATING	HARDWARE GROUP	TYPE	MATERIAL	FINISH	HEAD	JAMB	SILL	FRAME	DOOR NOTES
(N) KITCHEN 158	01	(N) 3'-0" X 7'-0"	A	HM	P	-	-	02	A	H.M.	P	2/A3.1.1	2/A3.1.1	3/A3.1.1	1/A3.1.1	3,6,10,21
(N) STOR. 158.1	02	(N) 3'-0" X 7'-0"	A	HM	P	-	-	03	A	H.M.	P	2/A3.1.1	2/A3.1.1	-	1/A3.1.1	3,6,10, 12
(N) JAN. 158.2	03	(N) 3'-0" X 7'-0"	A	HM	P	-	-	04	A	H.M.	P	2/A3.1.1	2/A3.1.1	3/A3.1.1	1/A3.1.1	3,6,10, 12
(N) KITCHEN 158	04	(N) 6'-0" X 7'-0"	A	HM	P	-	-	05	A	H.M.	P	2/A3.1.1	2/A3.1.1	3/A3.1.1	1/A3.1.1	3,6,10
(N) KITCHEN 158	05	(N) 6'-0" X 7'-0"	A	HM	P	-	-	01	A	E	P	2/A3.1.1	2/A3.1.1	3/A3.1.1	1/A3.1.1	1,2,6,7,10,19, 20

DOOR LEGEND																
WD	WOOD	E	EXISTING	AL	ALUMINUM											
T	TEMPERED SAFETY	FG	FIBER GLASS	T.CLR	TEMPERED SAFETY CLEAR											
S	STAIN	HM	HOLLOW METAL	SS	STAINLESS STEEL											
P	PAINT	SC	SOLID CORE WOOD													
F	FACTORY FINISH	PM	PREFINISHED METAL													

DOOR NOTES (NOTE: NOT ALL DOOR NOTES MAY BE USED)																					
1. EXTERIOR DOORS SHALL BE WEATHER STRIPPED AND ALL JOINTS AND PENETRATIONS SHALL BE CHALKED AND SEALED.	2. PROVIDE TACTILE EXIT SIGN PER DETAIL 3/A0.1	3. PROVIDE ROOM IDENTIFICATION SIGN PER DETAIL 2/A0.1	4. PROVIDE TOILET ROOM IDENTIFICATION SIGN PER DETAIL 2/A0.1	5. PROVIDE TOILET ROOM DOOR SYMBOLS PER DETAIL 2/A0.1	6. CBC 11B-404.2.5: ALL THRESHOLDS SHALL BE 1/2" INCH HIGH MAX. (ABOVE FLOOR AND LANDING ON BOTH SIDES) FLOORING TRANSITIONS PER DETAIL 6/A3.1.1 (CBC 11B-303.2 & 11B-303.3) CBC 11B-404.2.8.1: DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE MINIMUM TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS CBC 11B-404.2.9 THE MAXIMUM FORCE FOR PUSHING OR PULLING INTERIOR OR EXTERIOR DOORS IS 5 POUNDS. CBC 11B-404.2.7: HARDWARE (I.E. LEVER) SHALL BE CENTERED BETWEEN 34" & 44" ABOVE FLOOR. CBC 11B-309.4: OPERATION: OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAXIMUM	7. EXIT DOORS TO BE EQUIPPED WITH PANIC HARDWARE	8. PROVIDE 2'-0" WIDE X 1'-0" HIGH LOUVER	9. ALL EXTERIOR DOOR GLAZING SHALL BE DOUBLE PANE INSULATING TEMPERED SAFETY GLASS.	10. FLOOR DOOR STOPS TO BE LOCATED SO AS NOT TO CAUSE A TRIPPING HAZARD AND 4" MAX. FOR WALL.	11. UNDERCUT DOOR FOR 1/2" MIN. CLEARANCE.	12. UNDERCUT DOOR 1" FOR VENTILATION	13. DOOR EQUIPPED WITH ELECTRONIC ACCESS CONTROL SYSTEM <NOT USED>	14. PROVIDE POWER FOR ELECTRIC MOTOR OPERATION. VERIFY SWITCH LOCATION. <NOT USED>	15. SEE ORNAMENTAL METAL FENCE DETAILS ON SHEET A1-2-1 <NOT USED>	16. <NOT USED>	17. DOOR, FRAME & HARDWARE TO REMAIN EXCEPT AS NOTED OTHERWISE. PAINT INTERIOR FACE AND EDGES OF (E) DOOR AND FRAME PER INTERIOR ELEVATIONS AND FINISH SCHEDULE. PAINT OVER ALL EXISTING PAINTED SURFACES THAT ARE CURRENTLY PAINTED WITH INTERIOR PAINT COLOR. EXTERIOR FACE OF DOOR SHALL NOT BE PAINTED. <NOT USED>	18. (E) DOOR, FRAME & HARDWARE TO REMAIN EXCEPT AS NOTED OTHERWISE. PAINT BOTH SIDES OF DOOR & FRAME WITH PAINT COLOR AS INDICATED. <NOT USED>	19. FIELD VERIFY (E) DOOR AND/OR FRAME SIZE PRIOR TO ORDERING AND FABRICATION	20. REMOVE (E) DOOR & HARDWARE AND REPLACE WITH (N) DOOR & HARDWARE. PAINT EXTERIOR SIDE OF EXISTING FRAME AND (N) DOOR TO MATCH (E) BUILDING PAINT COLORS. PAINT INTERIOR SIDE OF EXISTING FRAME AND (N) DOOR PER INTERIOR ELEVATIONS & FINISH SCHEDULE.	21. REMOVE (E) DOOR, FRAME & HARDWARE AND REPLACE WITH (N) DOOR, FRAME & HARDWARE. PAINT (N) DOOR AND FRAME PER INTERIOR ELEVATIONS & FINISH SCHEDULE.	22. PROVIDE H.M. CASED OPENING ONLY WITHOUT LOCKSET OR HINGE PREP. <NOT USED>

DOOR TYPES		FRAME TYPES	

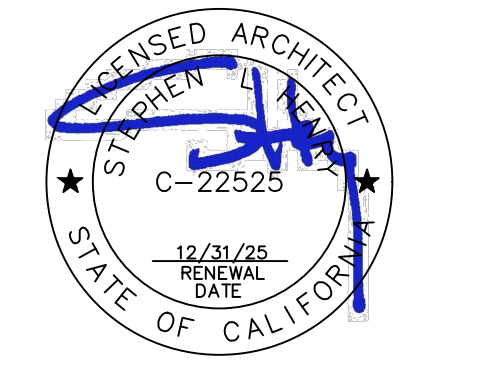
		<p><b>730 Howe Avenue, Suite 450</b>  <b>Sacramento, CA 95825</b>  <b>Phone: 916.921.2112</b>  <b>Fax: 916.921.2212</b></p>																																							
	<p><b>1 HOLLOW METAL FRAME</b>  SCALE: 3" = 1'-0"</p>																																								
	<p><b>2 INTERIOR DOOR HEAD / JAMB</b>  SCALE: 3" = 1'-0"</p>																																								
	<p><b>3 DOOR THRESHOLD</b>  SCALE: 3" = 1'-0"</p>	<p><b>CULINARY LAB VENTURE ACADEMY</b></p> <p>CONSULTANT</p>																																							
		<p><b>DOOR SCHEDULE</b></p>																																							
		<table border="1" style="width: 100%;"> <thead> <tr> <th>PROJECT NO.</th> <th>REVISIONS</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>23-34-026</td> <td></td> <td></td> </tr> <tr> <td>DATE</td> <td></td> <td></td> </tr> <tr> <td>02/29/2024</td> <td></td> <td></td> </tr> <tr> <td>DRAWN</td> <td></td> <td></td> </tr> <tr> <td>SLH</td> <td></td> <td></td> </tr> <tr> <td>CHECKED</td> <td></td> <td></td> </tr> <tr> <td>SLH</td> <td></td> <td></td> </tr> <tr> <td>SCALE</td> <td></td> <td></td> </tr> <tr> <td>1/4" = 1'-0"</td> <td></td> <td></td> </tr> <tr> <td>CADFILE</td> <td></td> <td></td> </tr> <tr> <td>UPDATED</td> <td></td> <td></td> </tr> <tr> <td>SHEET NO.</td> <td colspan="2" style="text-align: center; font-size: 2em;"><b>A3.1.1</b></td> </tr> </tbody> </table>	PROJECT NO.	REVISIONS	BY	23-34-026			DATE			02/29/2024			DRAWN			SLH			CHECKED			SLH			SCALE			1/4" = 1'-0"			CADFILE			UPDATED			SHEET NO.	<b>A3.1.1</b>	
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MATERIALS LEGEND	
4B	4" RUBBER BASE
6B	6" INTEGRAL COVE BASE (RESINOUS) 3/4" RADIUS MINIMUM
C1	CARPET TILE
C2	WALK-OFF CARPET TILE
C3	CARPET - ROLL
LVP	LUXURY VINYL PLANK FLOORING
RT	RESILIENT TILE FLOORING
RS	RESILIENT SHEET VINYL FLOORING
RF	RESINOUS FLOOR COATING O/ (E) CONCRETE
RF1	RESINOUS FLOOR COATING O/ (E) CERAMIC TILE
RW1	RESINOUS WALL COATING O/ (E) CERAMIC TILE
G1	5/8" GYPSUM BOARD
G2	5/8" TYPE "X" GYPSUM BOARD
GE	GYPSUM BOARD EXISTING
CS	CONCRETE - SEALED
CSS	CONCRETE - STAINED & SEALED
P	PAINT
PV	PAINT O/ (E) VINYL WALL COVERING
-	NO FINISH
F	FACTORY
FRP1	FIBER REINFORCED PLASTIC PANEL
VW	VINYL WALL COVERING
AT	ACOUSTICAL TILE
A1	2' X 4' SUSPENDED ACOUSTICAL CEILING SYSTEM TYPE 1
A2	2' X 4' SUSPENDED ACOUSTICAL CEILING SYSTEM TYPE 2
WD	WOOD DECK
I	INSULATION - EXPOSED
MISC	MISCELLANEOUS FINISHES - SEE DRAWINGS
(E)	EXISTING
(N)	NEW
W	WAX

NOTES	
1.	USE WATER RESISTANT GYPSUM BOARD AT KITCHEN, BATHROOMS AND WET AREAS - TYPICAL.
2.	INTEGRAL COVE BASE MUST HAVE 3/4" MINIMUM RADIUS COVING AT FLOOR AND SHALL EXTEND AT LEAST 6" UP WALL. SEE DETAIL 2/A0.2.
3.	PROVIDE R-19 BATT INSULATION AT CULINARY LAB PERIMETER WALLS; PROVIDE R-38 BATT INSULATION AT ROOF STRUCTURE
4.	WALL INSULATION AT PERIMETER OF CULINARY LAB SHALL EXTEND TO ROOF STRUCTURE
5.	BATT INSULATION INSTALLED AT THE ROOF SHALL NE INSTALLED BETWEEN JOISTS. WHERE BATT ROOF INSULATION IS EXPOSED TO OCCUPIED SPACE BELOW, THE INSULATION SHALL BE PAPER FACE AND INSTALLED NEATLY, READY FOR PAINT.
6.	PROVIDE SOUND INSULATION AT INTERIOR WALLS AND CEILING.
7.	PAINTED DOORS, WALLS AND CEILINGS IN KITCHEN, RESTROOMS AND JANITOR ROOMS TO BE SEMI-GLOSS.
8.	PAINT AROUND (N) DOOR FRAMES WHERE WALL FINISHES WERE REMOVED, DAMAGED AND REPLACED.
9.	PROVIDE R-38 BATT INSULATION ON TOP OF NEW SUSPENDED ACOUSTICAL CEILING AT MP ROOM

MATERIAL & FINISH SCHEDULE		FLOOR		BASE		WAINSCOT			WALLS								CEILING			NOTES
ROOM NUMBER	ROOM NAME	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT	N		E		S		W		MATERIAL	FINISH	HEIGHT	
									MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH				
158	(N) KITCHEN	RF	F	6B	F	FRP1	F	10'-0"	G2	FRP1/P	G2	FRP1/P	G2	FRP1/P	G2	FRP1/P	A2	F	10'-0"	1, 2, 3, 4, 5, 6, 7, 8
158.1	(N) STOR.	RF	F	6B	F	FRP1	F	10'-0"	G2	FRP1/P	G2	FRP1/P	G2	FRP1/P	G2	FRP1/P	A2	F	10'-0"	1, 2, 3, 4, 5, 6, 7, 8
158.2	(N) JAN.	RF	F	6B	F	FRP1	F	10'-0"	G2	FRP1/P	G2	FRP1/P	G2	FRP1/P	G2	FRP1/P	A2	F	10'-0"	1, 2, 3, 4, 5, 6, 7, 8
163	(E) MULTI-PURPOSE	RT	W	4B	F				G2	P	G2	P					A1	F	E	3, 4, 6, 9

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CULINARY LAB  
 VENTURE ACADEMY

MATERIAL &  
 FINISH SCHEDULE

CONSULTANT

PROJECT NO.	REVISIONS	BY
23-34-026		
DATE		
04/12/2024		
DRAWN		
SLH		
CHECKED		
SLH		
SCALE		
1/4"=1'-0"		
CADFILE		
UPDATED		

SHEET NO.

**A3.1.2**

**GENERAL NOTES**

1. THE DEMOLITION PLANS AND NOTES ARE GENERAL IN NATURE AND REPRESENT THE GENERAL DEMOLITION OR PROTECT-IN-PLACE SCOPE. IN EXISTING SPACES CONTRACTOR TO FIELD VERIFY QUANTITY AND LOCATION OF VARIOUS WALL OR CEILING MOUNTED ITEMS REQUIRED TO BE REMOVED OR PROTECTED IN PLACE AND MASKED FOR PAINTING. THE CONTRACTOR IS REQUIRED TO REMOVE OR PROTECT AND MASK IN PLACE ALL EXISTING DRY MARKER BOARDS, TACKBOARDS, CASEWORK, PROJECTION SCREENS, FIRE EXTINGUISHERS, WINDOW COVERINGS & TRACKS, LIGHT FIXTURES, FIRE ALARM DEVICES, INTERCOM SPEAKER OR ANY OTHER ITEM WHETHER SPECIFICALLY SHOWN OR NOT AND AS REQUIRED FOR INSTALLATION OF NEW FINISHES. SOME ITEMS WILL BE REQUIRED TO BE TEMPORARILY STORED AND PROTECTED FOR LATER INSTALLATION.
2. NOT ALL OF THE EXISTING INTRUSION ALARM, DATA NETWORKING/DISTRIBUTION AND CLOCK/SPEAKER/INTERCOM COMPONENTS ARE SHOWN IN THE PLANS. THESE ITEMS ARE TO REMAIN AS INSTALLED AND SHALL BE MASKED USING PLASTIC SHEETING AND ANY OTHER PROTECTION MEASURES NECESSARY DURING CONSTRUCTION OPERATIONS AND PRIOR TO PAINTING. VERIFY WITH OWNER THE EXACT PROTECTION AND MASKING MEASURES AND LIMITATIONS PRIOR TO MASKING.

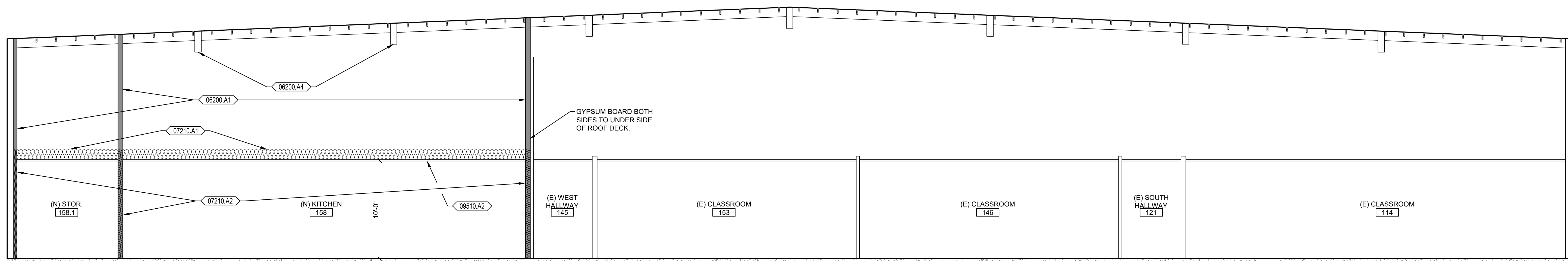
**SHEET NOTES**

(NOTE: NOT ALL NOTES MAY BE USED)

- SN.01 (E) FLOOR FINISHES TO BE PROTECTED DURING CONSTRUCTION OPERATIONS  
 SN.02 PATCH AND REPAIR FLOORING ALONG NEW WALL. INSTALL NEW RUBBER BASE.  
 SN.03 REPAIR (E) SUSPENDED ACOUSTICAL CEILING GRID AT NEW WALL AND WHERE HVAC DIFFUSERS ARE REMOVED. REPLACE ACOUSTICAL CEILING TILES AND INSULATION ABOVE CEILING AT SAME LOCATIONS. THREE DIFFUSERS TO BE REMOVED NOT SHOWN.

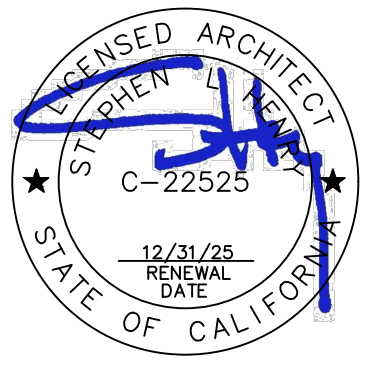
**KEYNOTES**

- 03300 CONCRETE  
03300.A1 new concrete slab per structural, dowel into (e) slab.
- 05500 METAL  
05500.A1 existing steel pipe column-paint.
- 06200 CARPENTRY  
06200.A1 frame new walls shown shaded  
06200.A2 frame and sheath over opening where door was removed.  
06200.A3 frame and sheath over opening where skylight was removed.  
06200.A4 (e) beam
- 07210 THERMAL INSULATION  
07210.A1 R-38 insulation above acoustical ceiling.  
07210.A2 R-21.5 insulation at walls.
- 07540 SINGLE PLY MEMBRANE ROOFING  
07540.A1 (e) 80-mil single ply membrane roofing.  
07540.A2 cut, patch and flash in new equipment curbs into existing single ply roofing system. see details 4/A8.1.1 and 5/A8.1.1.  
07540.A3 cut and patch in roofing where skylight was removed.  
07540.A4 (n) 80-mil walk pads shown shaded. see detail 3/A8.1.1  
07540.A5 heated stack, see detail 2/A8.1.1  
07540.A6 pipe vent, see detail 1/A8.1.1
- 08000 WINDOWS AND DOORS  
08000.A1 (e) door.  
08000.A2 (n) hollow metal door, frame and hardware.  
08000.A3 (n) hollow metal door and hardware in (e) hollow metal frame
- 09510 ACOUSTICAL CEILINGS  
09510.A1 acoustical ceiling type A1-fine fissured.  
09510.A2 acoustical ceiling type A2-vinyl rock.
- 09290 GYPSUM BOARD  
09290.A1 gypsum wallboard-painted
- 09650 RESILIENT FLOORING AND BASE  
09650.A1 vinyl composition tile  
09650.A2 4" coved rubber base
- 09670 RESINOUS FLOORING  
09670.A1 resinous flooring and wall coating  
09670.A2 resinous flooring cove up wall 6"
- 09720 FIBERGLASS REINFORCED WALL PANELS  
09720.A1 FRP wall panel type FRP1
- 10100 SIGNAGE  
10100.A1 room identification signage per details 2A0.1 and 3/A0.1  
10100.A2 occupancy sign; provide occupancy sign: "THE NUMBER OF PEOPLE PERMITTED IN THIS ROOM SHALL NOT EXCEED 406 ASSEMBLY AND 290 DINING".  
10100.A3 tactile exit sign per detail 3/A0.1  
10100.A4 not used.  
10100.A5 assistive listening devise sign: to read "LISTENING DEVICE AVAILABLE".
- 10200 FURNITURE & EQUIPMENT  
10200.A1 UL rated class K 2-A wet chemical fire extinguisher with 2.5 lb. capacity
- 11400 FOOD SERVICE EQUIPMENT  
11400.A1 food service equipment  
11400.A2 exhaust hood  
11400.A3 stainless steel wall lining  
11400.A4 side by side washer and dryer units - owner furnished, contractor installed. top loading machines shall have the door to the laundry compartment located 36 inches (914 mm) maximum above the finish floor. front loading machines shall have the bottom of the opening to the laundry compartment located 15 inches (381 mm) minimum and 36 inches (914 mm) maximum above the finish floor.
- 11520 PROJECTION SCREENS  
11520.A1 type 1 electric operated projection screen with ceiling trim kit for recessed installation into suspended acoustical ceiling.  
11502.A2 projector mount: universal suspended ceiling mount kit for mounting projector in suspended acoustical ceiling. projector only is OFCI (owner furnished, contractor installed)
- 22000 PLUMBING  
22000.A1 water heater  
22000.A2 floor sink  
22000.A3 mop sink
- 23000 HEATING, VENTILATING AND AIR CONDITIONING  
23000.A1 HVAC unit  
23000.A2 duct diffusers
- 26000 ELECTRICAL GENERAL REQUIREMENTS  
26000.A1 electrical panel  
26000.A2 light fixture



**A BUILDING SECTION**  
 SCALE: 3/16" = 1'-0"

730 Howe Avenue, Suite 450  
 Sacramento, CA 95825  
 Phone: 916.921.2112  
 Fax: 916.921.2212



CULINARY LAB  
 VENTURE ACADEMY  
 BUILDING SECTION

CONSULTANT

PROJECT NO.	REVISIONS	BY
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CADFILE		
UPDATED		

SHEET NO.  
**A4.1.1**

FOOD SERVICE EQUIPMENT, OTHER EQUIPMENT, ELECTRICAL, MECHANICAL AND PLUMBING ARE NOT SHOWN ON INTERIOR ELEVATIONS. SEE ALL DRAWINGS FOR ADDITIONAL INFORMATION.

**GENERAL NOTES**

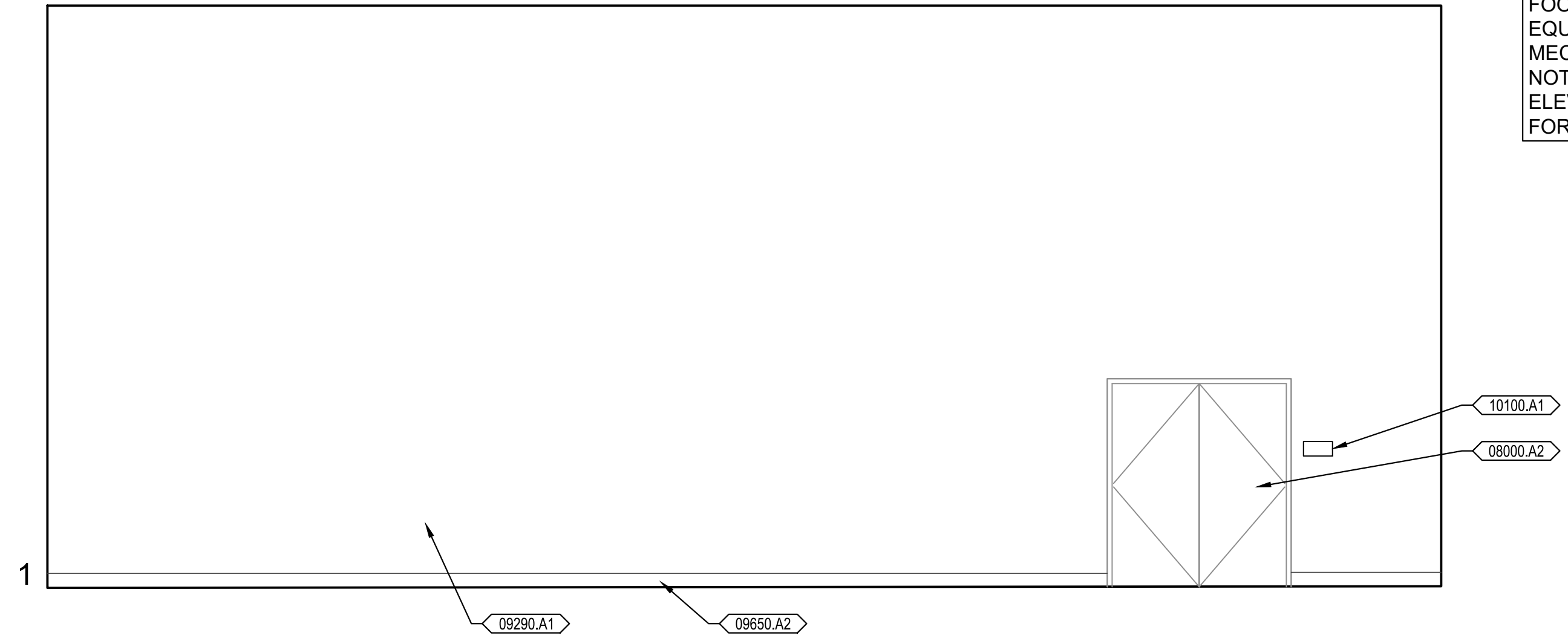
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**SHEET NOTES**

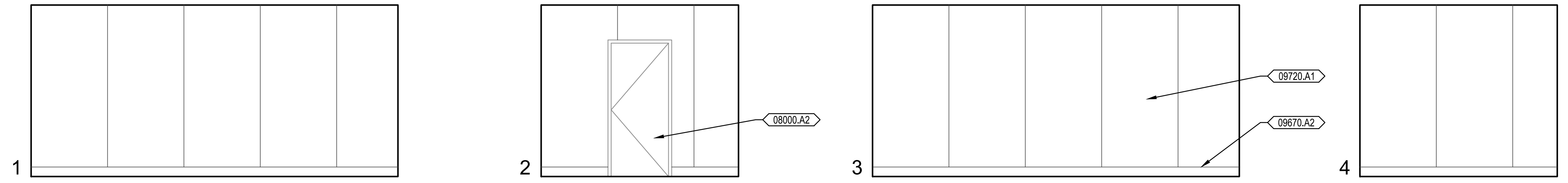
- (NOTE: NOT ALL NOTES MAY BE USED)
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  - SN 02 PATCH AND REPAIR FLOORING ALONG NEW WALL. INSTALL NEW RUBBER BASE.
  - SN 03 REPAIR (E) SUSPENDED ACOUSTICAL CEILING GRID AT NEW WALL AND WHERE HVAC DIFFUSERS ARE REMOVED. REPLACE ACOUSTICAL CEILING TILES AND INSULATION ABOVE CEILING AT SAME LOCATIONS. THREE DIFFUSERS TO BE REMOVED NOT SHOWN.

**KEYNOTES**

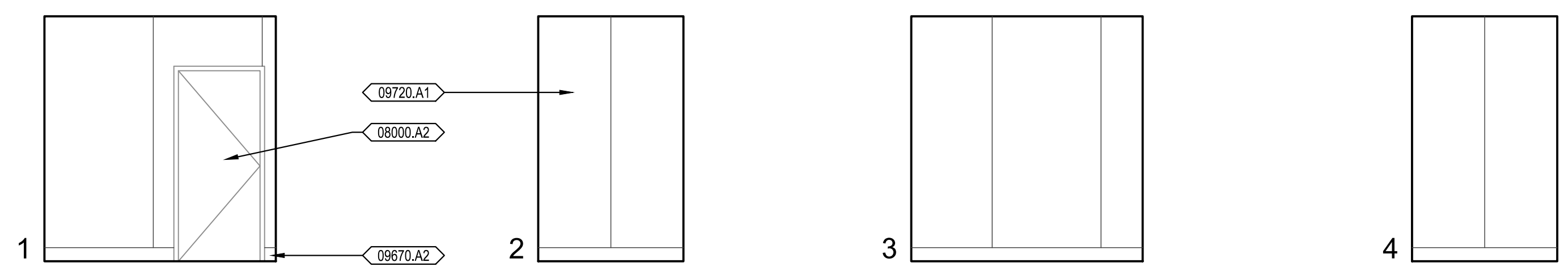
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- 03300.A1 new concrete slab per structural, dowel into (e) slab.
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- 05500.A1 existing steel pipe column-paint.
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- 06200.A1 frame new walls shown shaded
- 06200.A2 frame and sheath over opening where door was removed.
- 06200.A3 frame and sheath over opening where skylight was removed.
- 06200.A4 (e) beam
- 07210 THERMAL INSULATION
- 07210.A1 R-38 insulation above acoustical ceiling.
- 07210.A2 R-21.5 insulation at walls.
- 07540 SINGLE PLY MEMBRANE ROOFING
- 07540.A1 (e) 80-mil single ply membrane roofing.
- 07540.A2 cut, patch and flash in new equipment curbs into existing single ply roofing system. see details 4/A8.1.1 and 5/A8.1.1.
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- 09670.A2 resinous flooring cove up wall 6"
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- 10100.A5 assistive listening devise sign: to read "LISTENING DEVICE AVAILABLE".
- 10200 FURNITURE & EQUIPMENT
- 10200.A1 UL rated class K 2-A wet chemical fire extinguisher with 2.5 lb. capacity
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- 11400.A1 food service equipment
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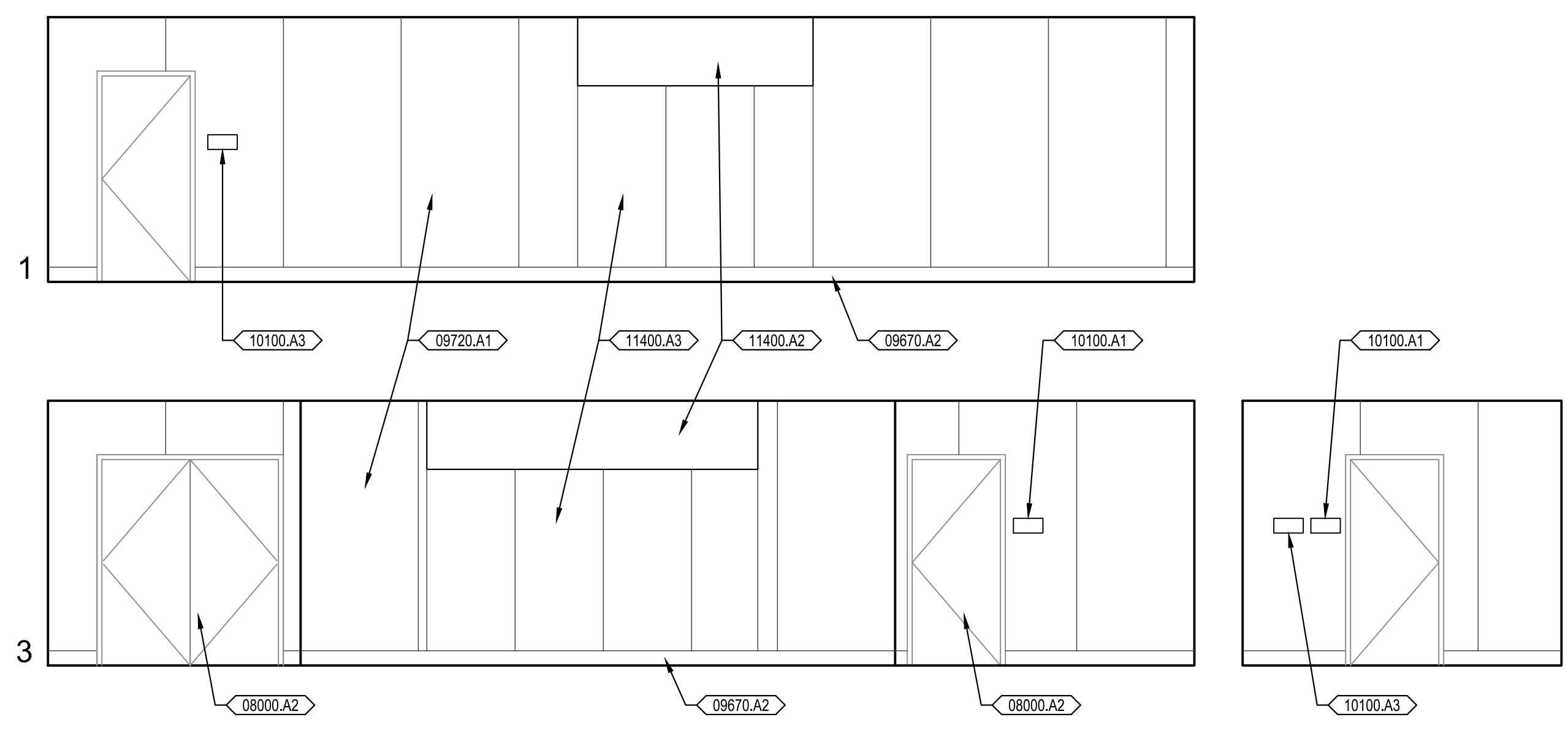
**D MULTI-PURPOSE ROOM INTERIOR ELEVATION**  
A5.1.1 SCALE: 1/4" = 1'-0"



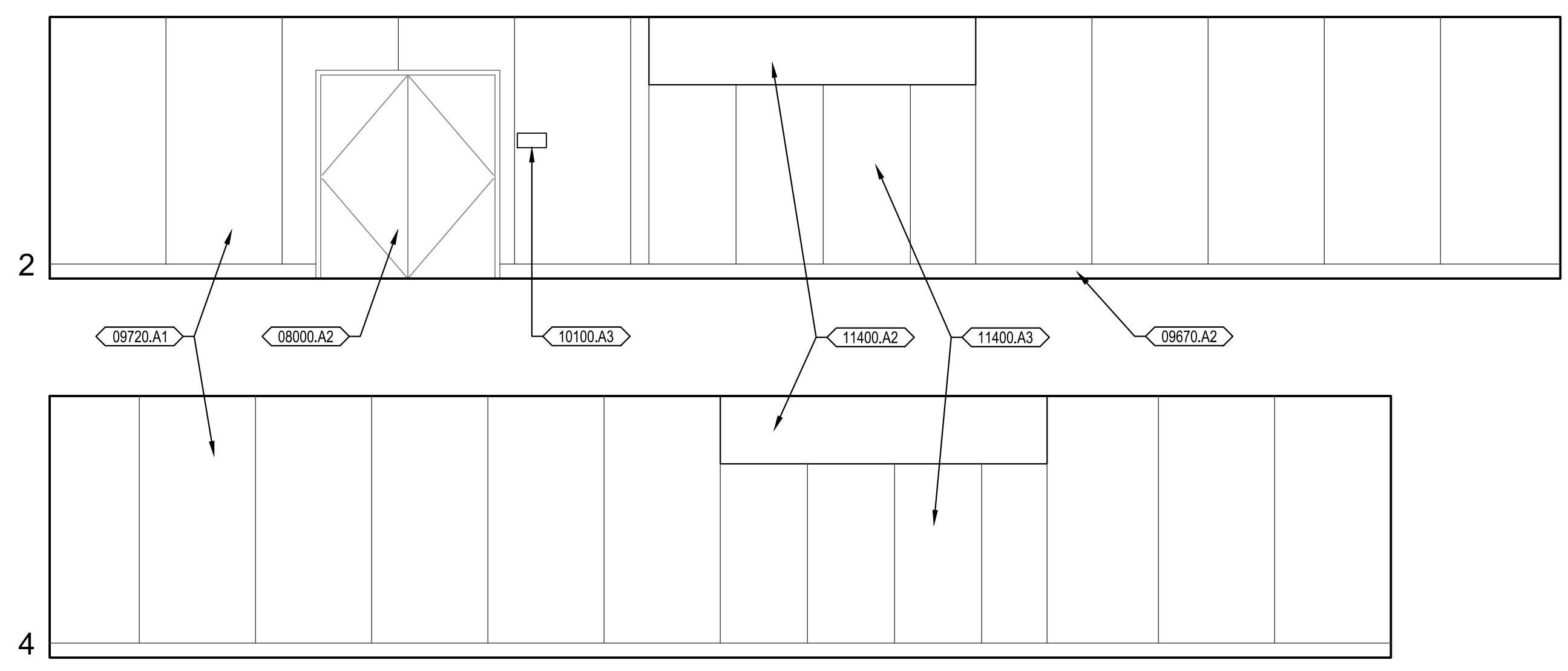
**C STORAGE INTERIOR ELEVATIONS**  
A5.1.1 SCALE: 1/4" = 1'-0"



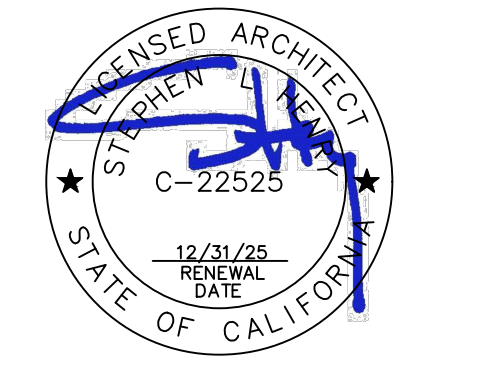
**B JANITOR INTERIOR ELEVATIONS**  
A5.1.1 SCALE: 1/4" = 1'-0"



**A KITCHEN INTERIOR ELEVATIONS**  
A5.1.1 SCALE: 1/4" = 1'-0"



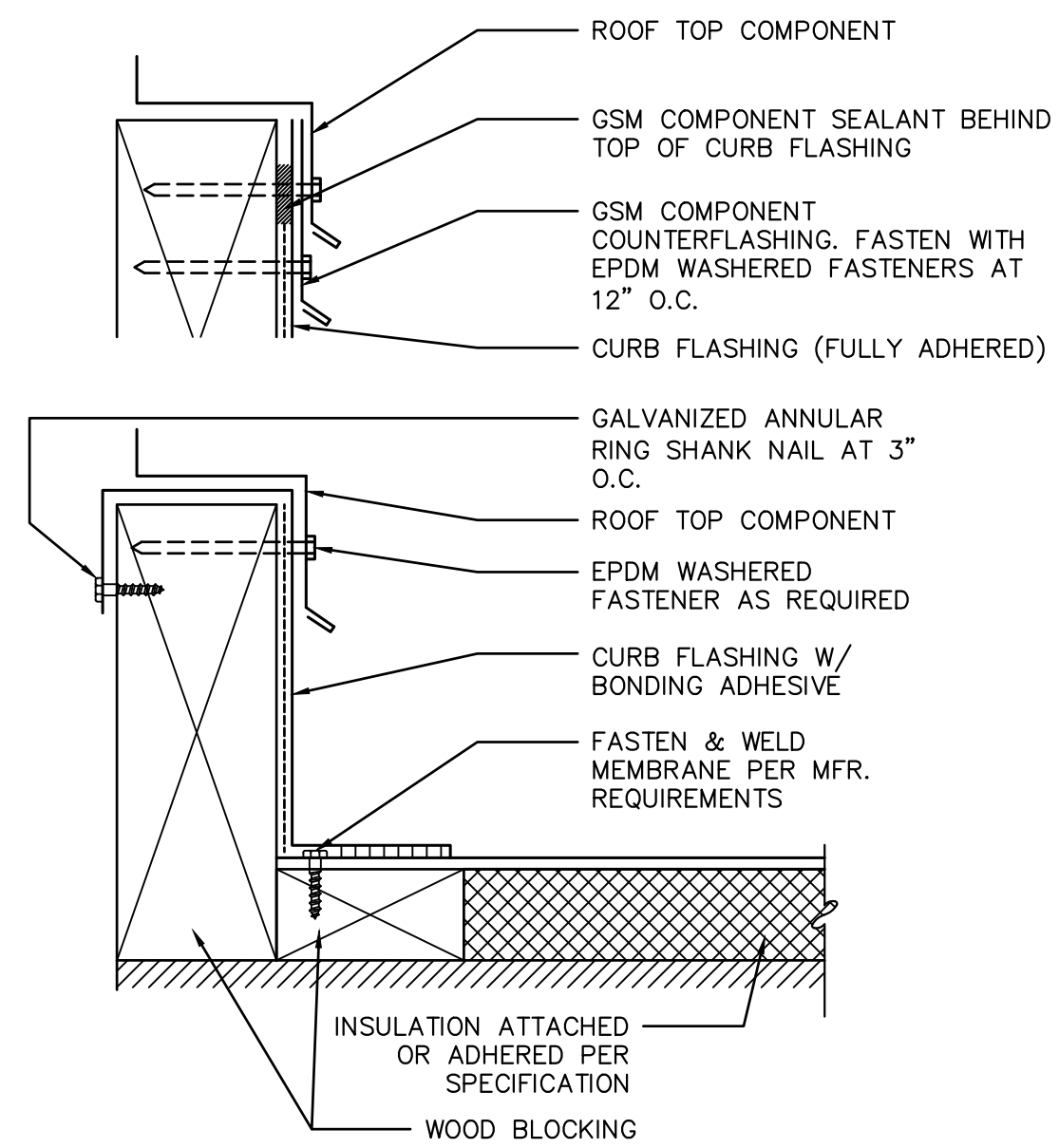
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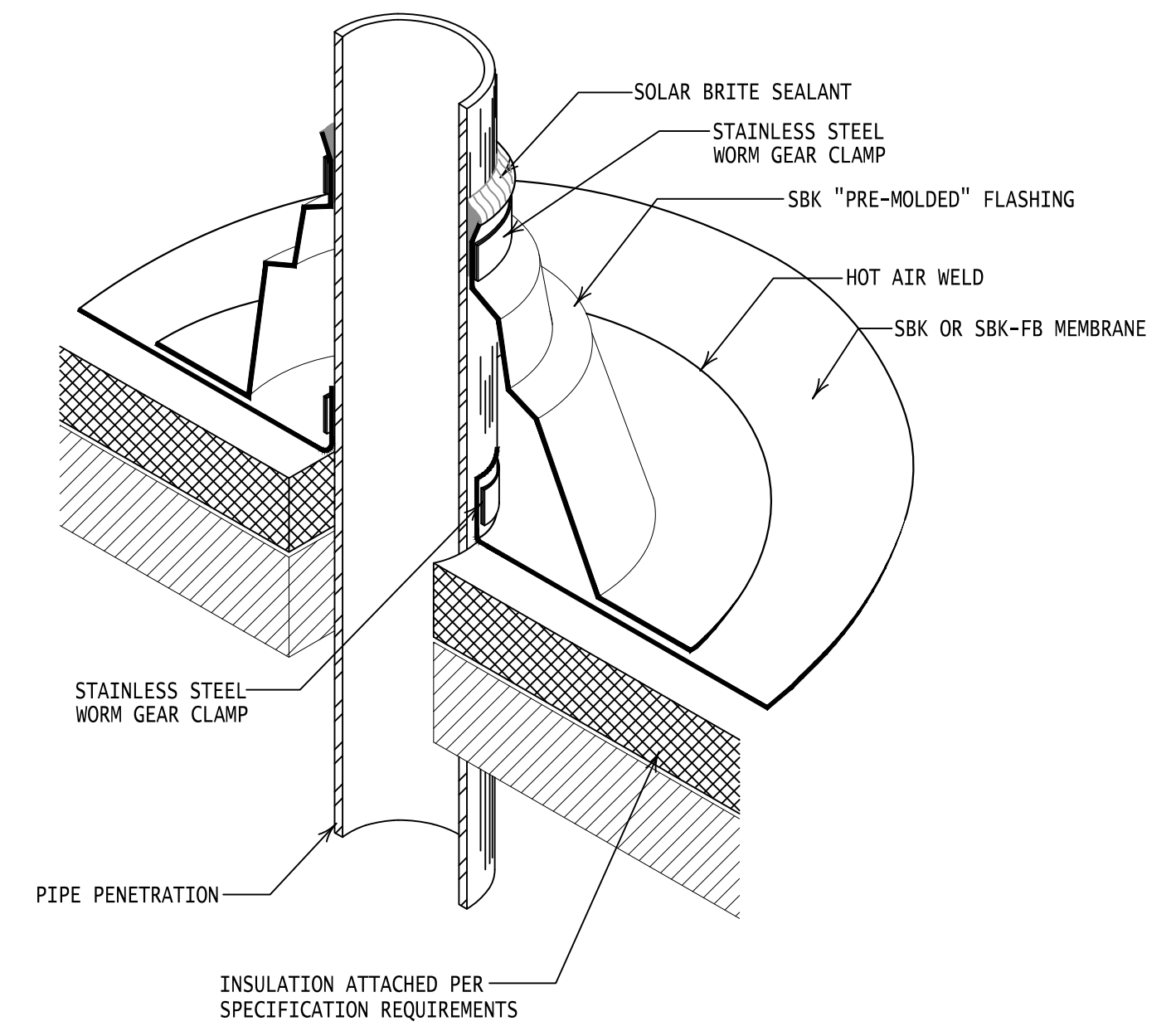
CULINARY LAB  
VENTURE ACADEMY  
INTERIOR ELEVATIONS

CONSULTANT		
PROJECT NO. 23-34-026	REVISIONS	BY
DATE 02/29/2024		
DRAWN SLH		
CHECKED SLH		
SCALE 1/4"=1'-0"		
CADFILE		
UPDATED		
SHEET NO.		

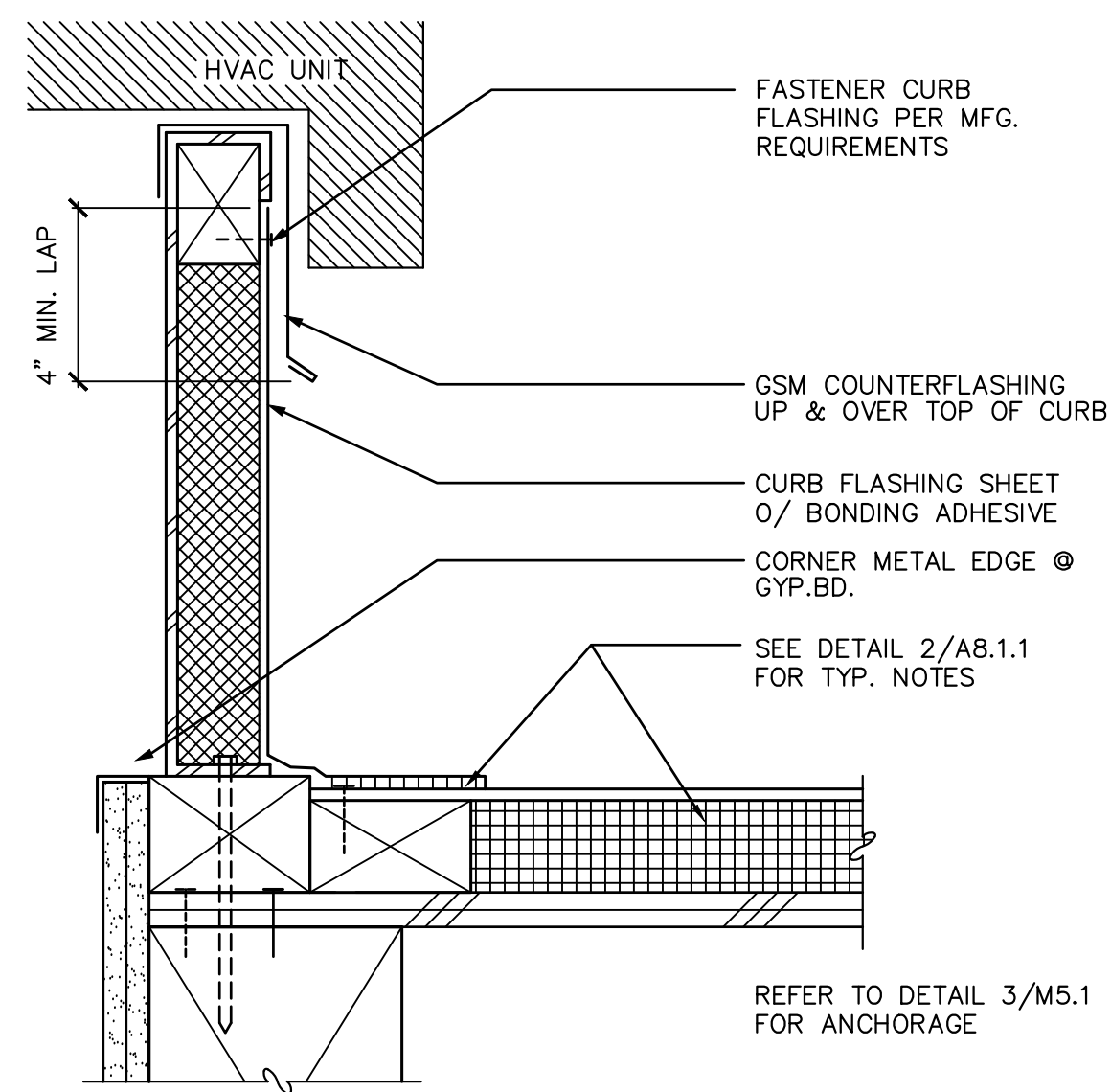
**A5.1.1**



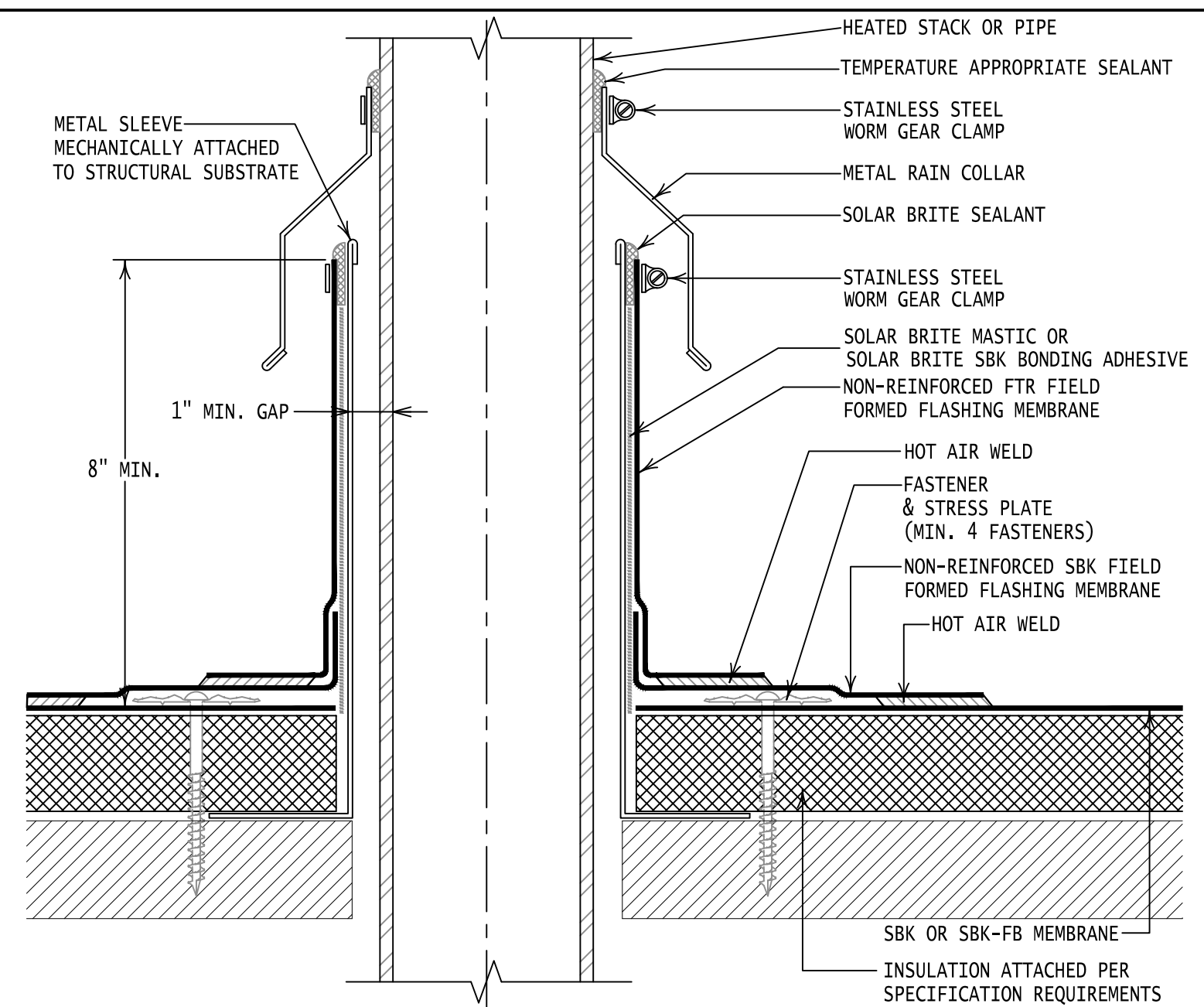
**4 COMPONENT CURB**  
SCALE: 3" = 1'-0"



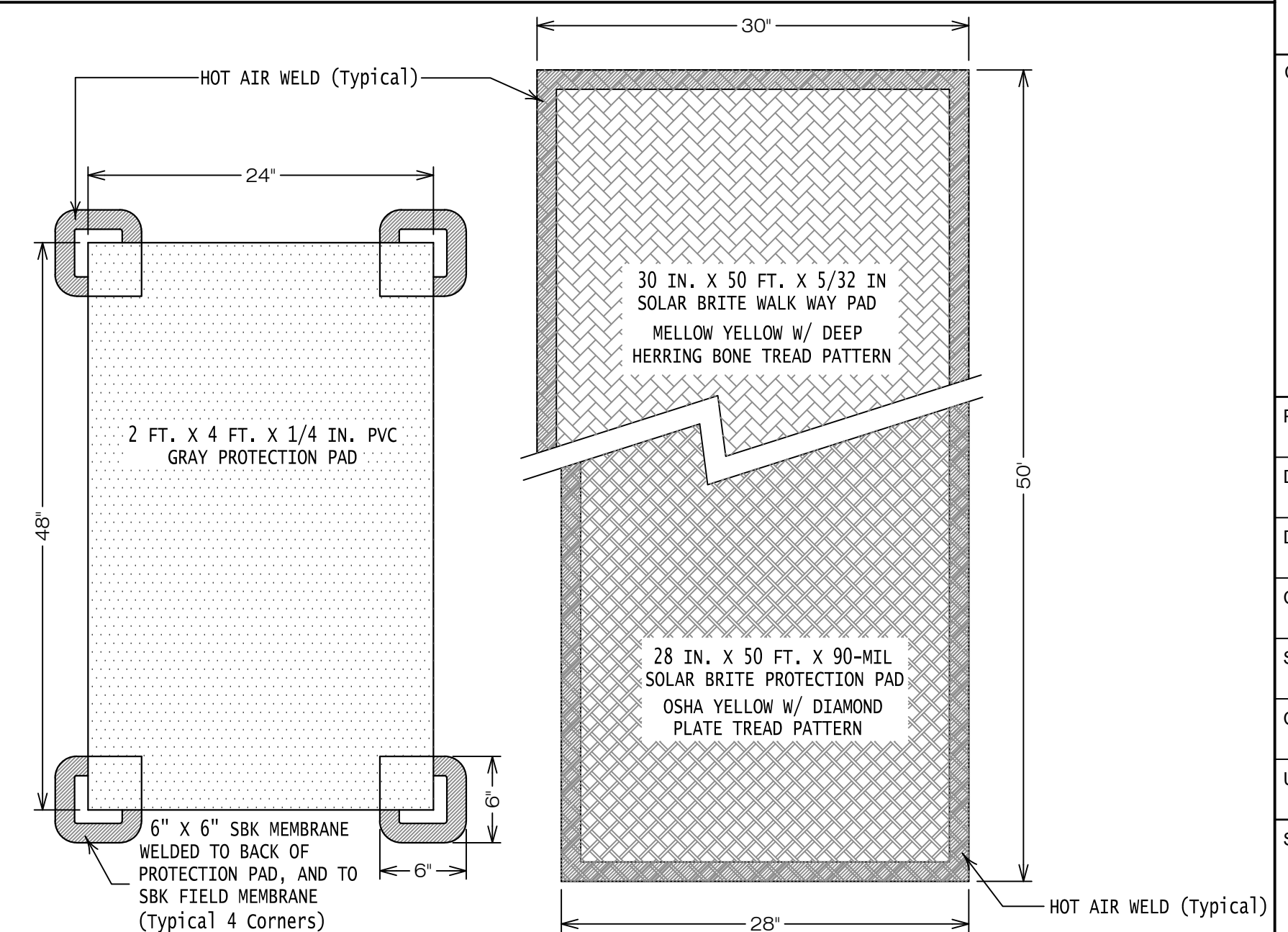
**1 PIPE FLASHING**  
SCALE: N.T.S



**5 HVAC UNIT CURB**  
SCALE: 3" = 1'-0"



**2 HEATED STACK FLASHING**  
SCALE: N.T.S



**3 WALK PADS DETAIL**  
SCALE: N.T.S

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Sacramento, CA 95825  
Phone: 916.921.2112  
Fax: 916.921.2212



CULINARY LAB  
VENTURE ACADEMY

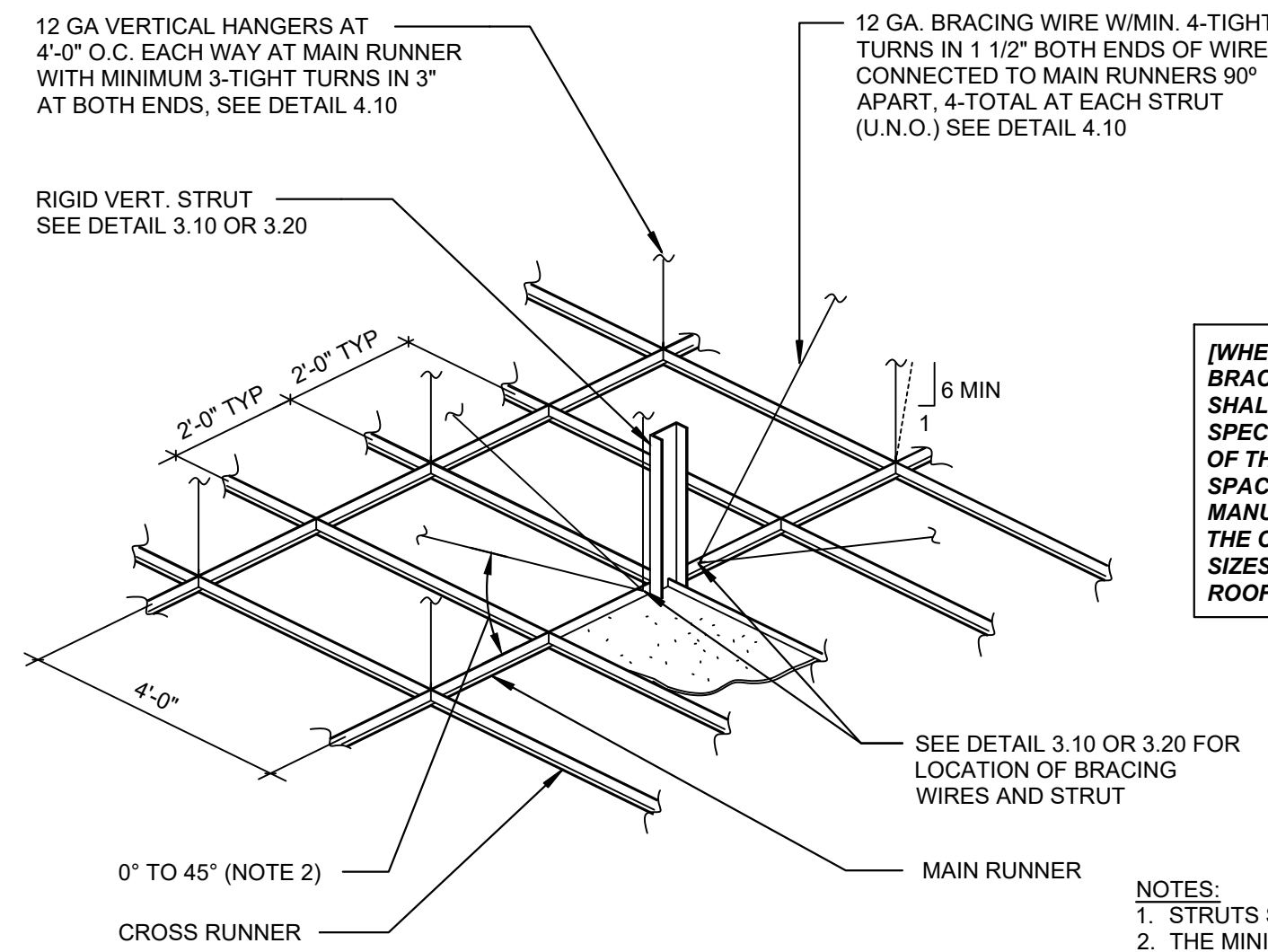
MISCELLANEOUS DETAILS

CONSULTANT

PROJECT NO.	REVISIONS	BY
23-34-026		
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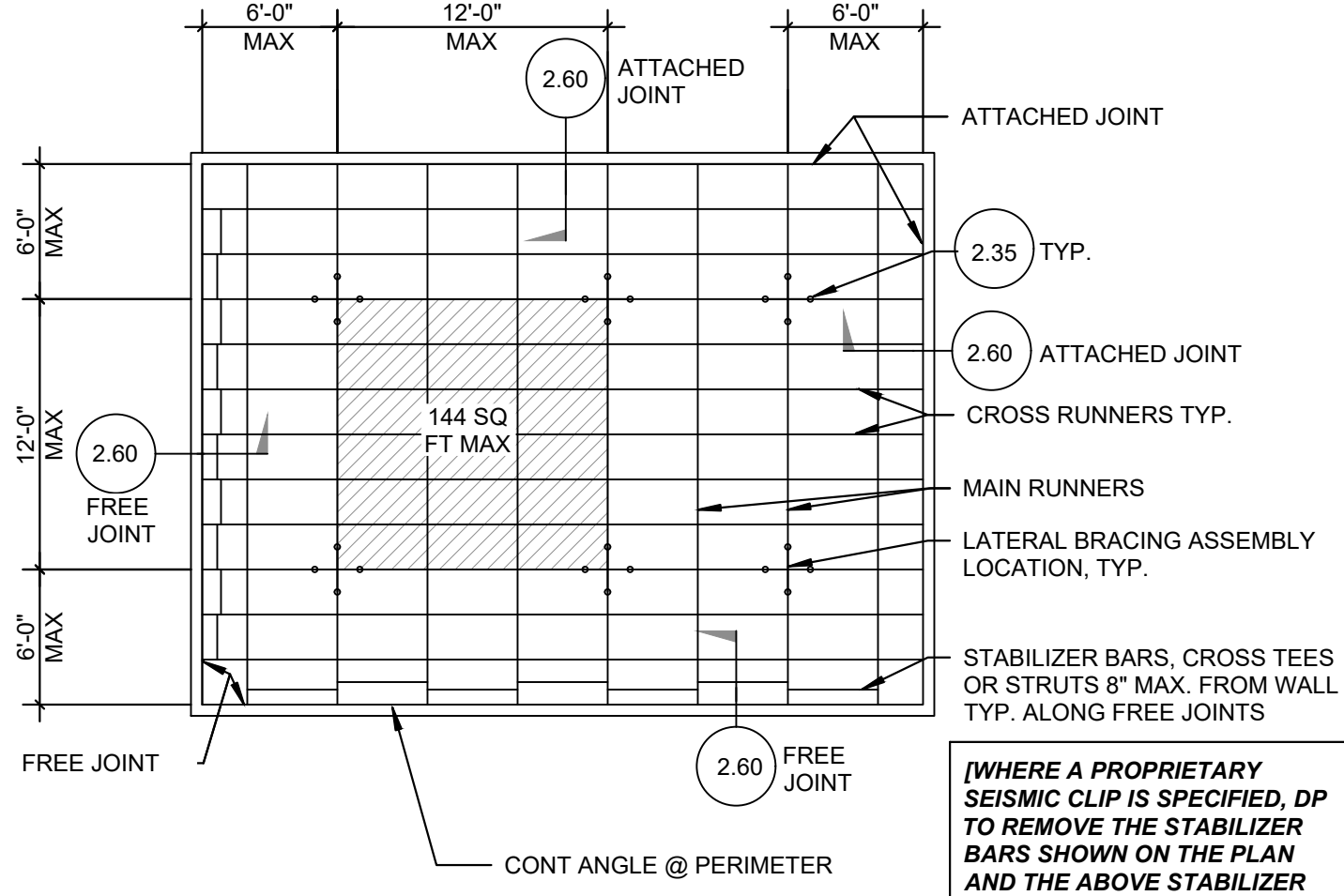
**A8.1.1**





[WHERE A PROPRIETARY LATERAL BRACING ASSEMBLY IS SPECIFIED, DP SHALL PROVIDE DETAILS AND SPECIFICATIONS FOR THE INSTALLATION OF THE ENTIRE ASSEMBLY INCLUDING SPACING, APPROVED GRID MANUFACTURER(S), ATTACHMENT TO THE CEILING GRID, BRACING MEMBER SIZES, ATTACHMENT TO THE FLOOR AND ROOF STRUCTURE, ETC.]

NOTES:  
1. STRUTS SHALL NOT REPLACE HANGER WIRES.  
2. THE MINIMUM ACCEPTABLE ANGLE IS DETERMINED SUCH THAT THE WIRES DO NOT INTERFERE WITH THE RUNNERS, LIGHT FIXTURES, ETC. AND REMAIN STRAIGHT AND UNOBSTRUCTED.



[WHERE A PROPRIETARY SEISMIC CLIP IS SPECIFIED, DP TO REMOVE THE STABILIZER BARS SHOWN ON THE PLAN AND THE ABOVE STABILIZER BAR NOTE]

[WHERE BRACING ASSEMBLY SPACING CHANGES OVER THE HEIGHT OF THE BUILDING, DP SHALL INDICATE THE REQUIRED SPACING AT EACH LEVEL ON THE REFLECTED CEILING PLANS.]

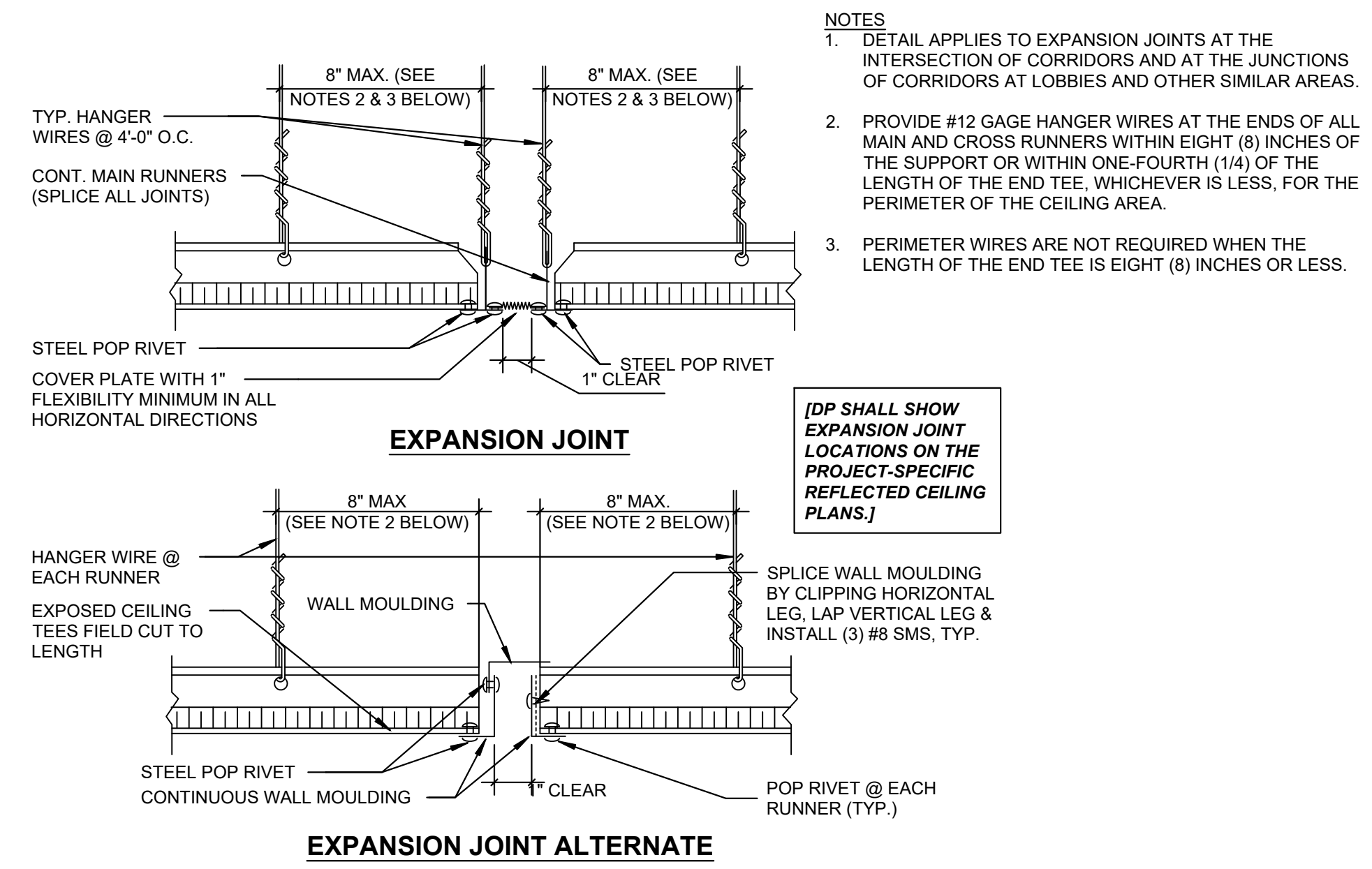
NOTE:  
BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 144 SQ. FT. MAX. IN ROOMS OVER 144 SQ. FT.

1. CEILING SYSTEM GENERAL NOTES
- CEILING SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C635 AND SECTION 5.1 OF ASTM E580.
  - THE CEILING GRID SYSTEM SHALL BE RATED HEAVY DUTY AS DEFINED BY ASTM C635.
  - CEILING SYSTEMS. THE FOLLOWING CEILING SYSTEM(S) IS/ARE PART OF THE SCOPE OF THIS PROJECT:  
 MANUFACTURER: [DP TO SPECIFY]  
 PRODUCT NAME: [DP TO SPECIFY]  
 EVALUATION REPORT NUMBER: [DP TO SPECIFY]  
 MAIN RUNNER PART, MODEL OR CATALOG NUMBER: [DP TO SPECIFY]  
 CROSS RUNNER PART, MODEL OR CATALOG NUMBER: [DP TO SPECIFY]
  - SEISMIC WALL CLIP:  
 MANUFACTURER'S MODEL: [DP TO SPECIFY IF USED]
  - CEILING PANELS SHALL NOT SUPPORT ANY LUMINAIRES, AIR TERMINALS, OR DEVICES.
  - FOR ACOUSTICAL TILE PANELS OF ANY MATERIAL OTHER THAN MINERAL OR GLASS FIBER, A 1/4" CLEARANCE SHALL BE PROVIDED BETWEEN THE PANEL AND THE WALL ON THE SIDES OF THE CEILING FREE TO SLIP. CLEARANCE BETWEEN CEILING GRID RUNNERS AND WALLS SHALL COMPLY WITH THE DETAILS ON THESE DRAWINGS REGARDLESS OF CEILING TILE MATERIAL.
2. MATERIALS
- CEILING WIRE SHALL BE CLASS 1 ZINC COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641. WIRE SHALL BE #12 GAUGE (0.106" DIAMETER) WITH SOFT TEMPER AND MINIMUM ULTIMATE TENSILE STRENGTH = 70KSI.
  - GALVANIZED SHEET STEEL (INCLUDING THAT USED FOR METAL STUD COMPRESSION STRUTS) SHALL CONFORM TO ASTM A653, OR OTHER EQUIVALENT SHEET STEEL LISTED IN SECTION A3.1 OF THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS. (AISI S100). MATERIAL 43 MIL (18GAUGE) THICK AND LIGHTER SHALL HAVE MINIMUM YIELD STRENGTH OF 33KSI. MATERIAL 54MIL (16 GAUGE) THICK AND HEAVIER SHALL HAVE A MINIMUM YIELD STRENGTH OF 50KSI.
  - ELECTRICAL METALLIC TUBE (EMT) SHALL CONFORM TO ANSI C80.3/UL 797 CARBON STEEL WITH G90 GALVANIZING. EMT SHALL HAVE MINIMUM YIELD STRENGTH OF 30 KSI AND MINIMUM ULTIMATE STRENGTH OF 48KSI.
3. ATTACHMENT OF HANGER AND BRACING WIRES
- ALL CEILING HANGER AND BRACING WIRES SHALL BE SEPARATED AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.
  - HANGER AND BRACING WIRES SHALL NOT ATTACH TO OR BEND AROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO PIPING, DUCTWORK, CONDUIT, AND EQUIPMENT.
  - HANGER WIRES THAT ARE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTER-SLOPING WIRES.

2.35 SUSPENSION AND LATERAL BRACING ASSEMBLY  
SCALE: N.T.S.

2.12 TYP. CEILING PLAN FOR 12'-0" x 12'-0" BRACE ASSEMBLY SPACING  
SCALE: 1/8" = 1'-0"

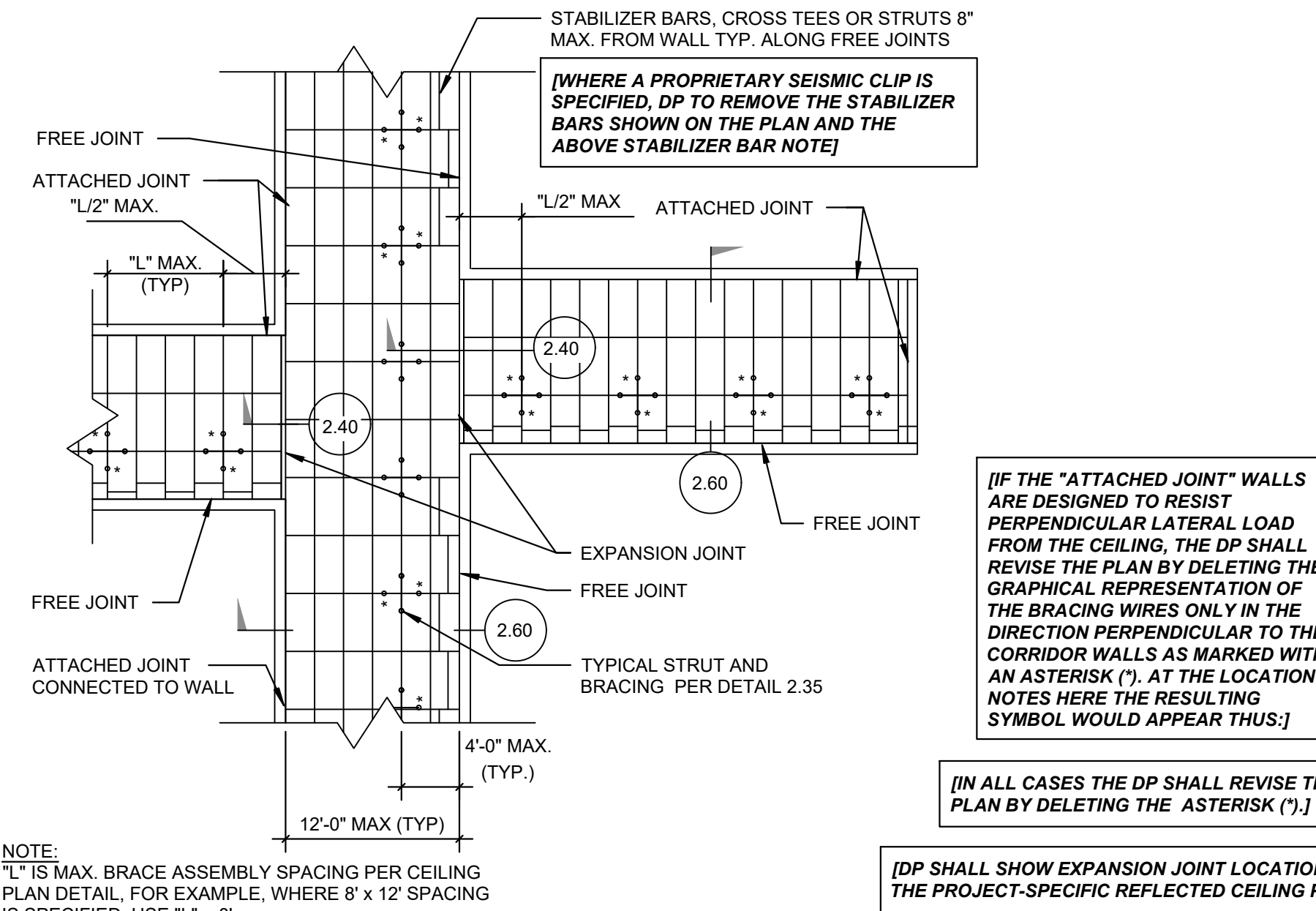
1.00 CEILING NOTES  
SCALE: N.T.S.



NOTES:  
1. DETAIL APPLIES TO EXPANSION JOINTS AT THE INTERSECTION OF CORRIDORS AND AT THE JUNCTIONS OF CORRIDORS AT LOBBIES AND OTHER SIMILAR AREAS.  
2. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA.  
3. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.

[DP SHALL SHOW EXPANSION JOINT LOCATIONS ON THE PROJECT-SPECIFIC REFLECTED CEILING PLANS.]

2.40 EXPANSION JOINT (SCHOOL BUILDINGS)  
SCALE: N.T.S.

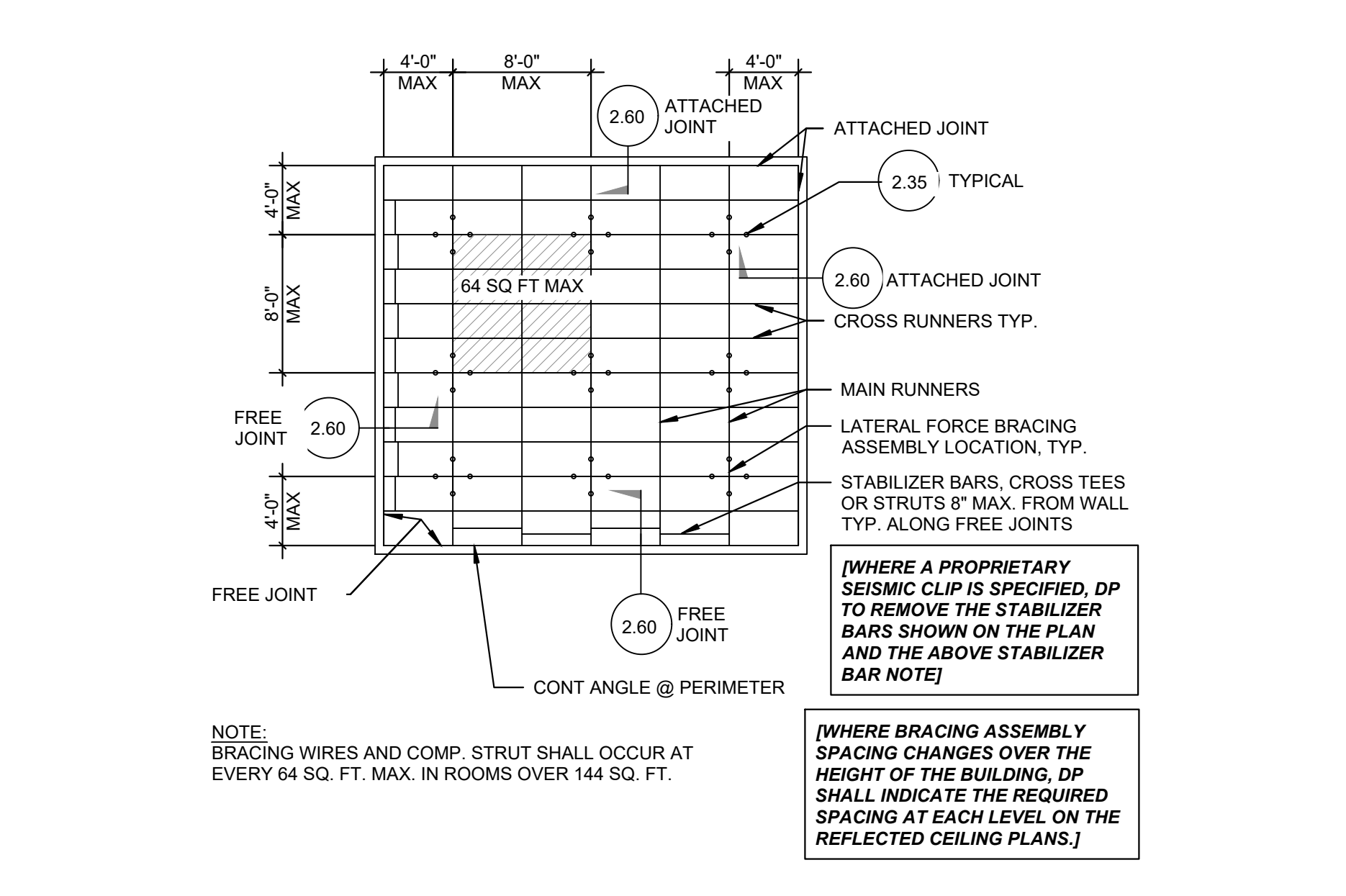


[WHERE A PROPRIETARY SEISMIC CLIP IS SPECIFIED, DP TO REMOVE THE STABILIZER BARS SHOWN ON THE PLAN AND THE ABOVE STABILIZER BAR NOTE]

[IF THE "ATTACHED JOINT" WALLS ARE DESIGNED TO RESIST PERPENDICULAR LATERAL LOAD FROM THE CEILING, THE DP SHALL REVISE THE PLAN BY DELETING THE GRAPHICAL REPRESENTATION OF THE BRACING WIRES ONLY IN THE DIRECTION PERPENDICULAR TO THE CORRIDOR WALLS AS MARKED WITH AN ASTERISK (\*). AT THE LOCATION NOTES HERE THE RESULTING SYMBOL WOULD APPEAR THUS:]

[IN ALL CASES THE DP SHALL REVISE THIS PLAN BY DELETING THE ASTERISK (\*).]

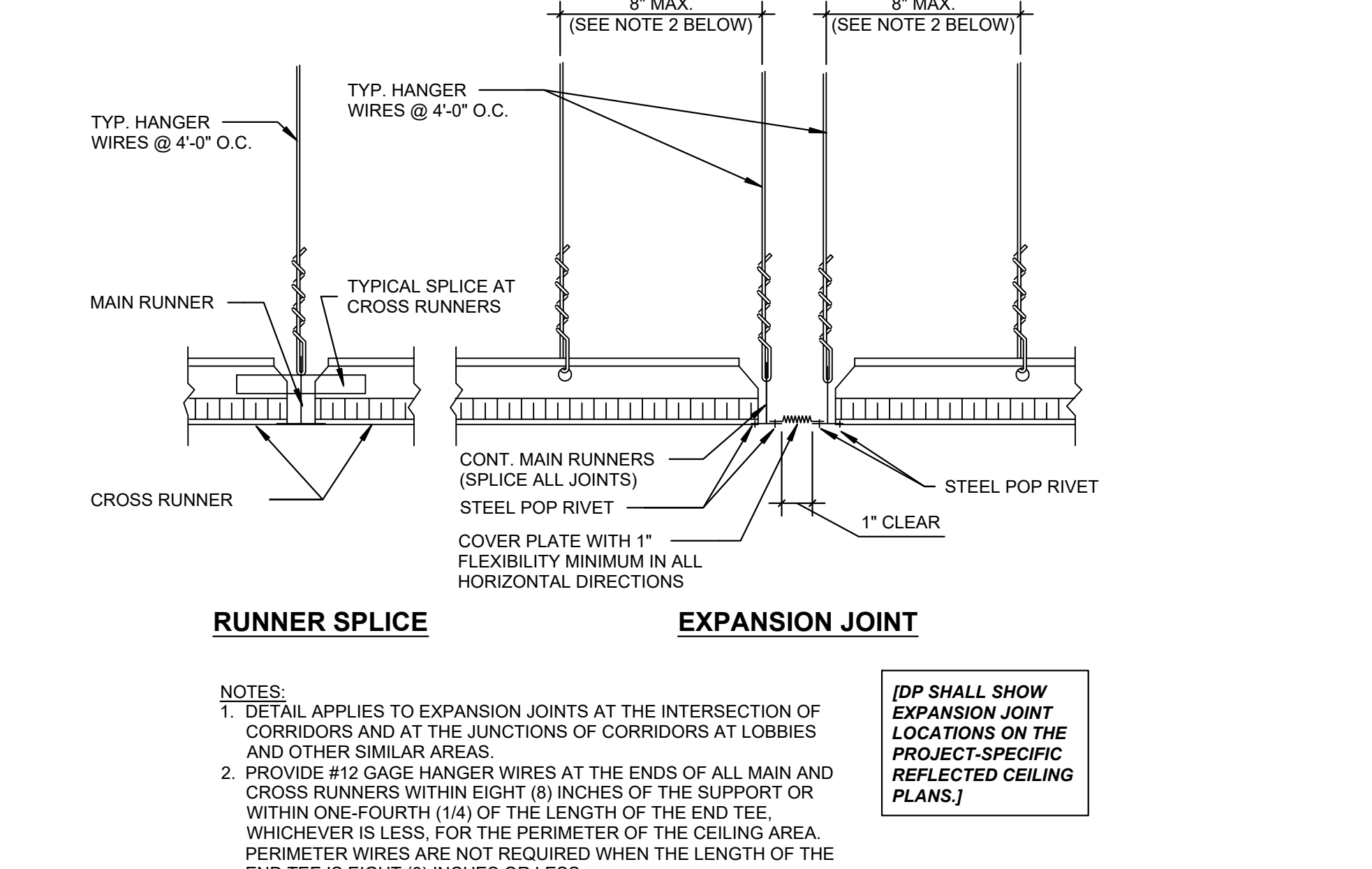
2.30 CORRIDOR CEILING PLAN (SCHOOL BUILDINGS)  
SCALE: N.T.S.



[WHERE A PROPRIETARY SEISMIC CLIP IS SPECIFIED, DP TO REMOVE THE STABILIZER BARS SHOWN ON THE PLAN AND THE ABOVE STABILIZER BAR NOTE]

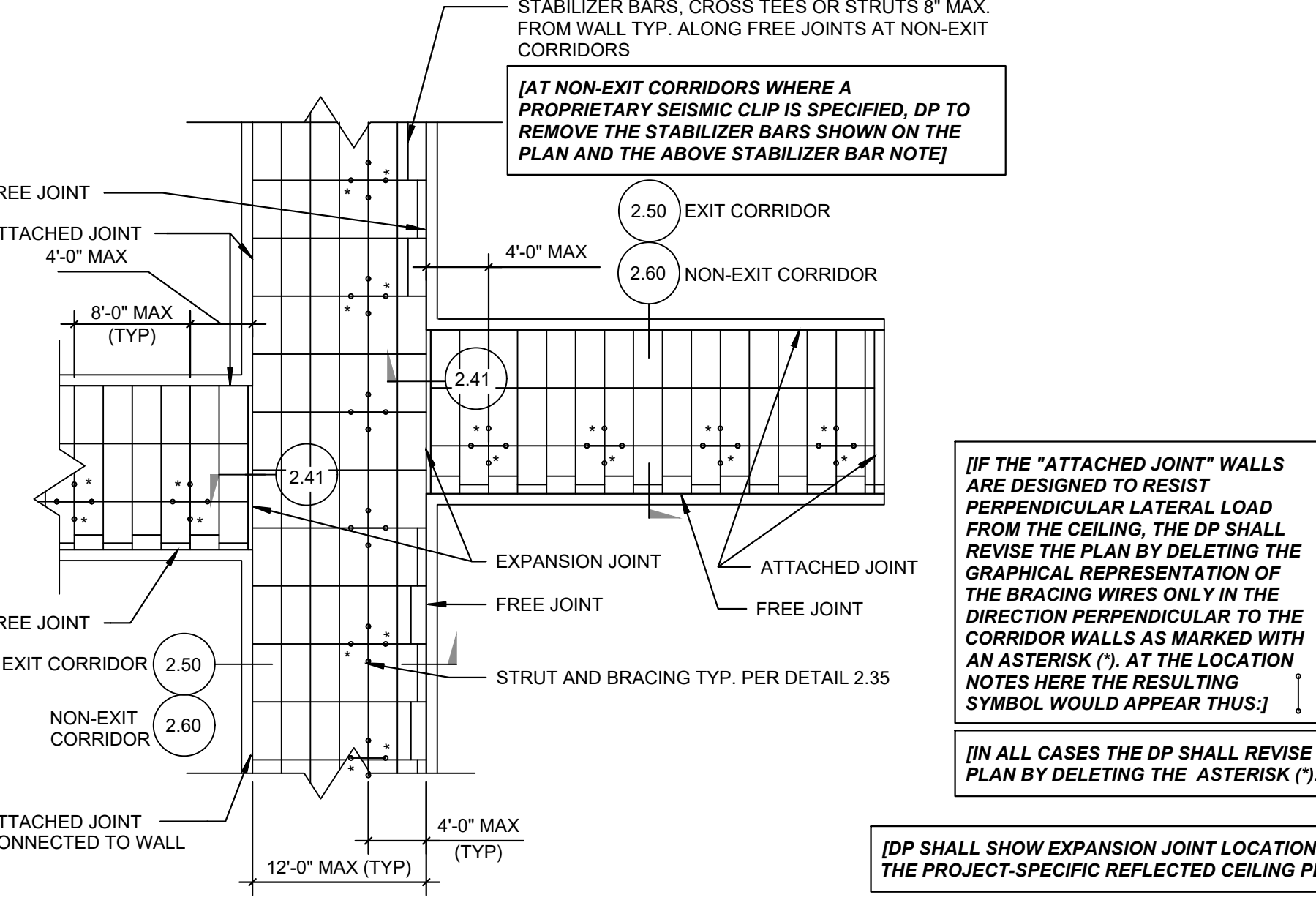
[WHERE BRACING ASSEMBLY SPACING CHANGES OVER THE HEIGHT OF THE BUILDING, DP SHALL INDICATE THE REQUIRED SPACING AT EACH LEVEL ON THE REFLECTED CEILING PLANS.]

2.10 TYP. CEILING PLAN FOR 8'-0" x 8'-0" BRACE ASSEMBLY SPACING  
SCALE: 1/8" = 1'-0"



[DP SHALL SHOW EXPANSION JOINT LOCATIONS ON THE PROJECT-SPECIFIC REFLECTED CEILING PLANS.]

2.41 EXPANSION JOINT (ESSENTIAL SERVICES BUILDINGS)  
SCALE: N.T.S.

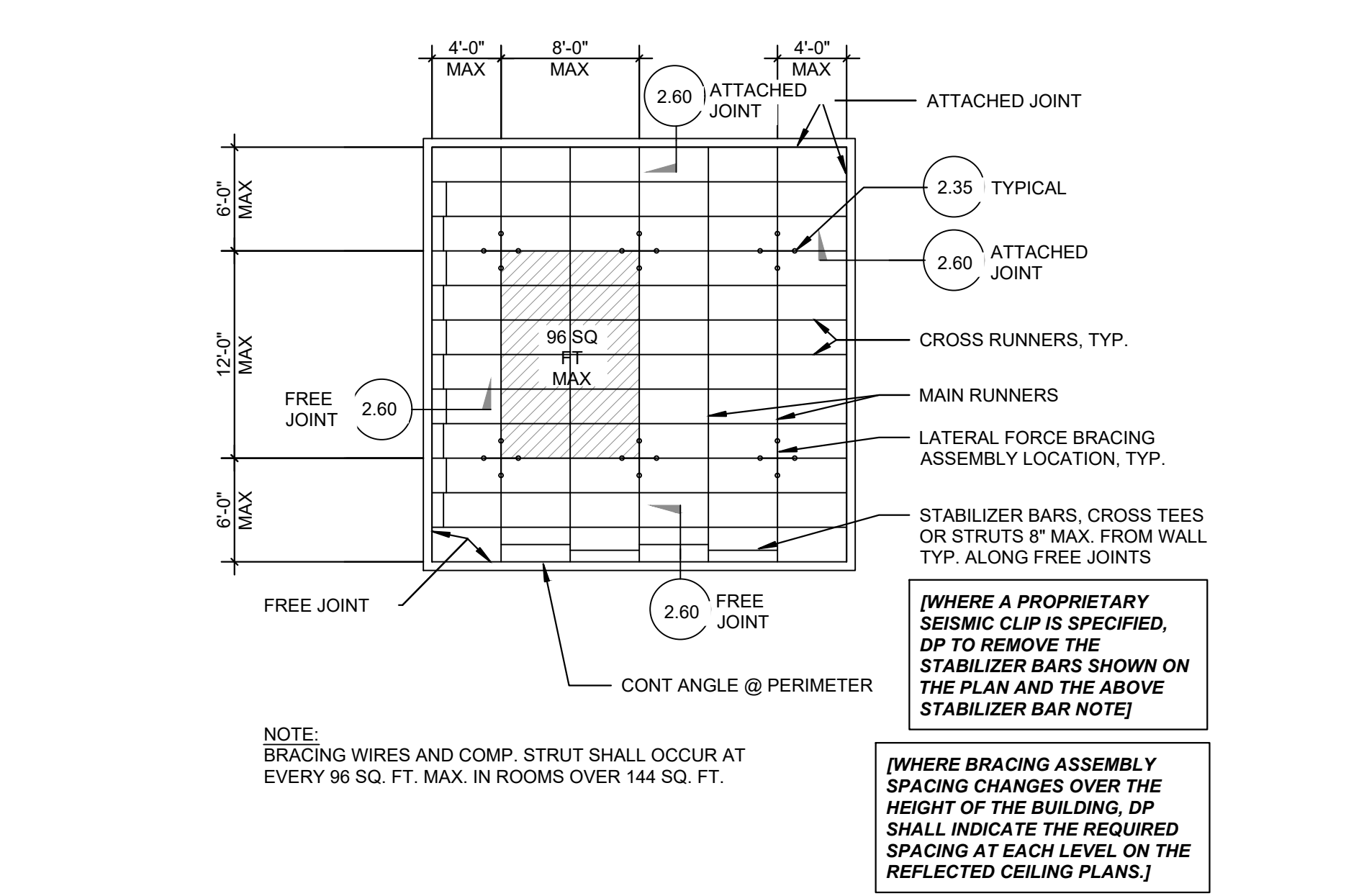


[AT NON-EXIT CORRIDORS WHERE A PROPRIETARY SEISMIC CLIP IS SPECIFIED, DP TO REMOVE THE STABILIZER BARS SHOWN ON THE PLAN AND THE ABOVE STABILIZER BAR NOTE]

[IF THE "ATTACHED JOINT" WALLS ARE DESIGNED TO RESIST PERPENDICULAR LATERAL LOAD FROM THE CEILING, THE DP SHALL REVISE THE PLAN BY DELETING THE GRAPHICAL REPRESENTATION OF THE BRACING WIRES ONLY IN THE DIRECTION PERPENDICULAR TO THE CORRIDOR WALLS AS MARKED WITH AN ASTERISK (\*). AT THE LOCATION NOTES HERE THE RESULTING SYMBOL WOULD APPEAR THUS:]

[IN ALL CASES THE DP SHALL REVISE THIS PLAN BY DELETING THE ASTERISK (\*).]

2.31 CORRIDOR CEILING PLAN (ESSENTIAL SERVICE BUILDINGS)  
SCALE: N.T.S.



[WHERE A PROPRIETARY SEISMIC CLIP IS SPECIFIED, DP TO REMOVE THE STABILIZER BARS SHOWN ON THE PLAN AND THE ABOVE STABILIZER BAR NOTE]

[WHERE BRACING ASSEMBLY SPACING CHANGES OVER THE HEIGHT OF THE BUILDING, DP SHALL INDICATE THE REQUIRED SPACING AT EACH LEVEL ON THE REFLECTED CEILING PLANS.]

2.11 TYP. CEILING PLAN FOR 8'-0" x 12'-0" BRACE ASSEMBLY SPACING  
SCALE: 1/8" = 1'-0"

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VENTURE ACADEMY

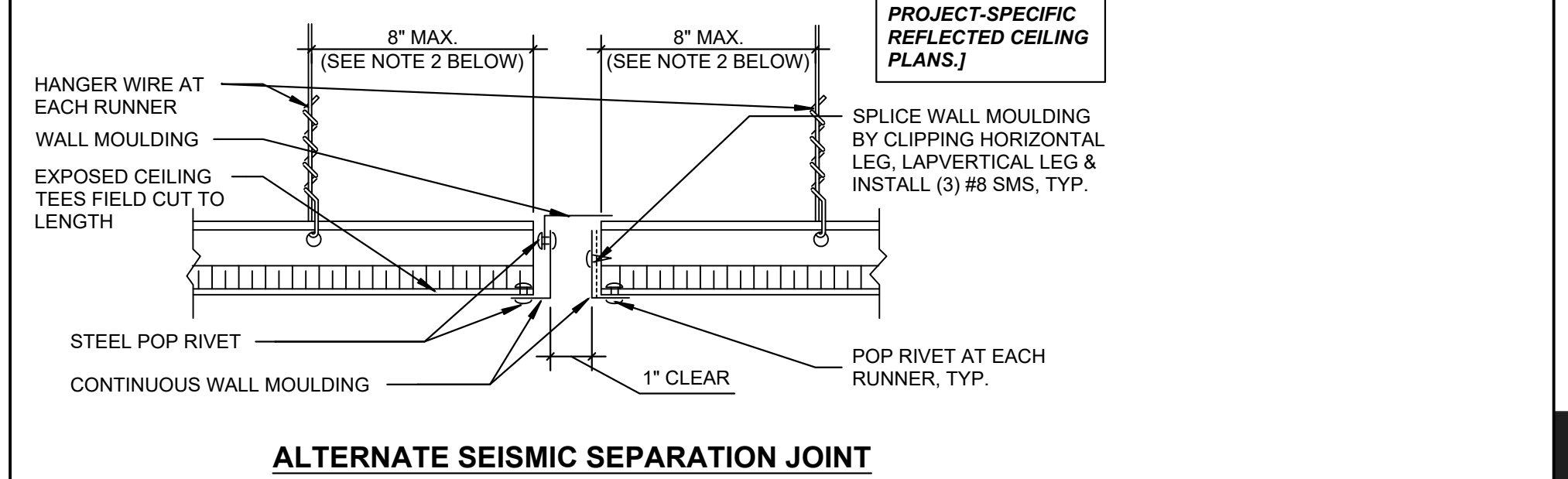
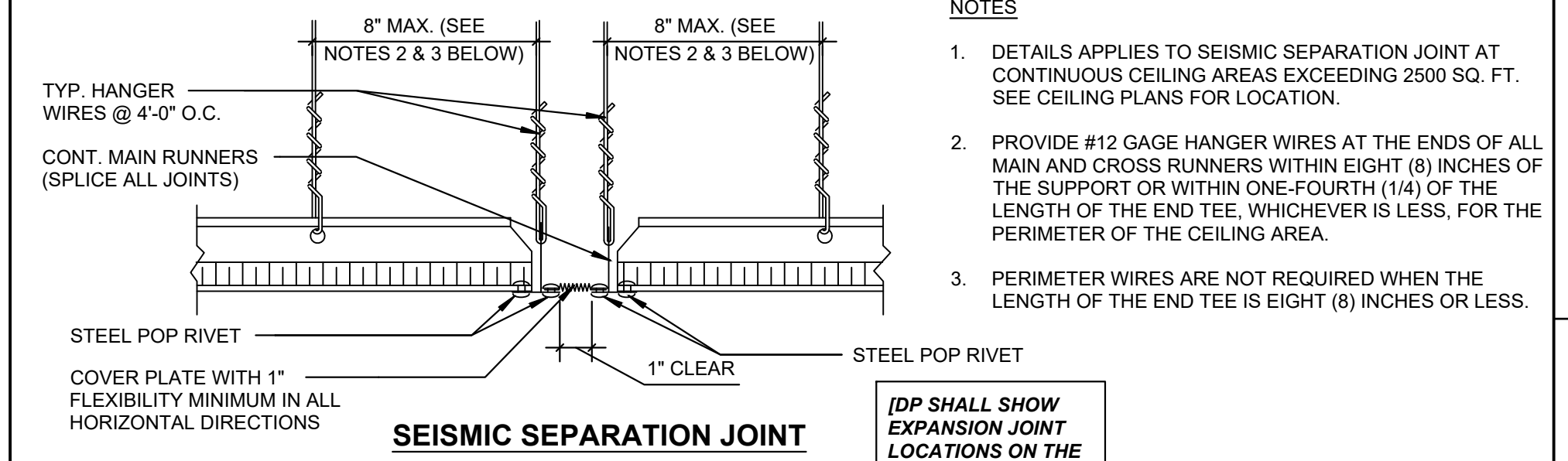
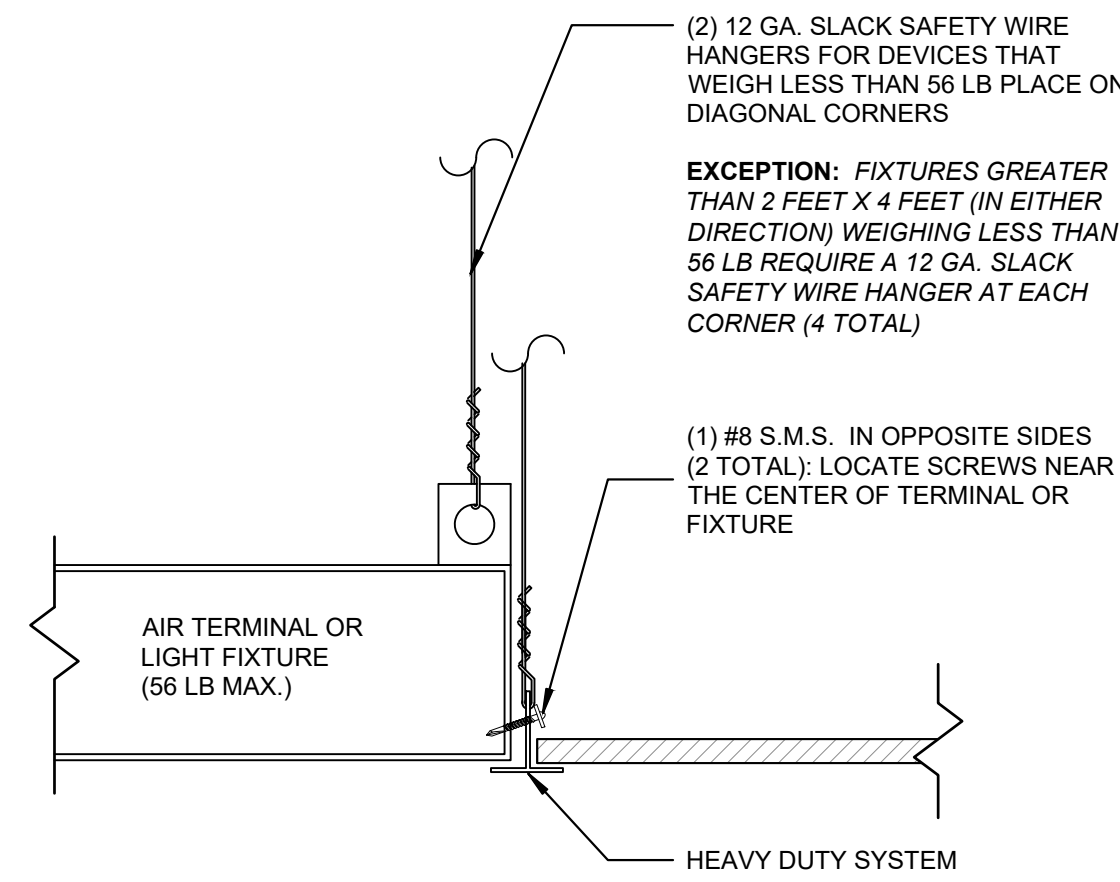
SUSPENDED LAY-IN  
PANEL CEILING DETAILS

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A8.3.1

COMPRESSION STRUT EMT SECTION	MAXIMUM LENGTH
1/2" DIAMETER EMT (0.042" WALL THICKNESS)	3' - 11"
3/4" DIAMETER EMT (0.049" WALL THICKNESS)	6' - 4"
1" DIAMETER EMT (0.057" WALL THICKNESS)	9' - 9"
1 1/4" DIAMETER EMT (0.065" WALL THICKNESS)	12' - 9"
1 1/2" DIAMETER EMT (0.065" WALL THICKNESS)	14' - 9"
2" DIAMETER EMT (0.065" WALL THICKNESS)	18' - 10"

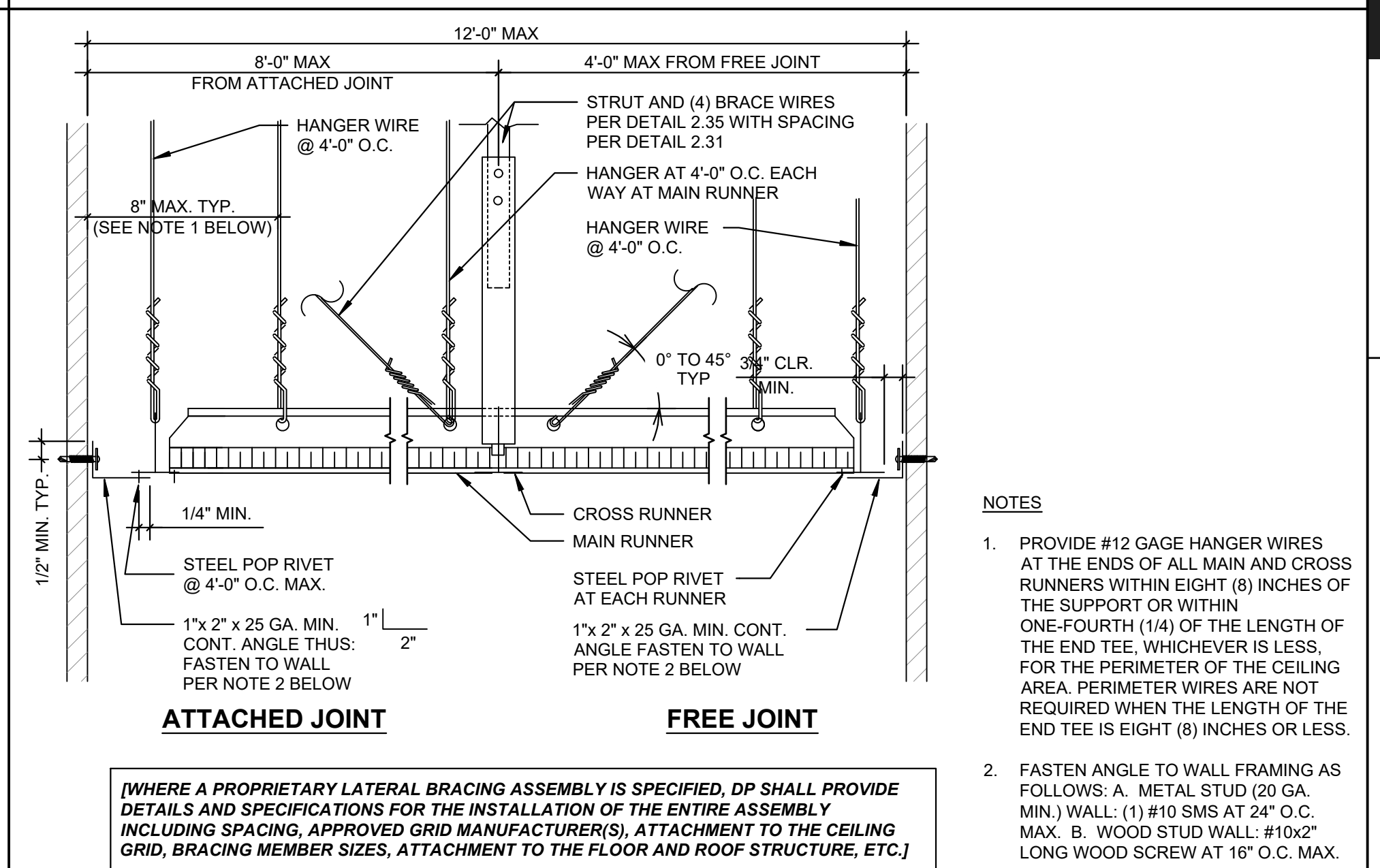
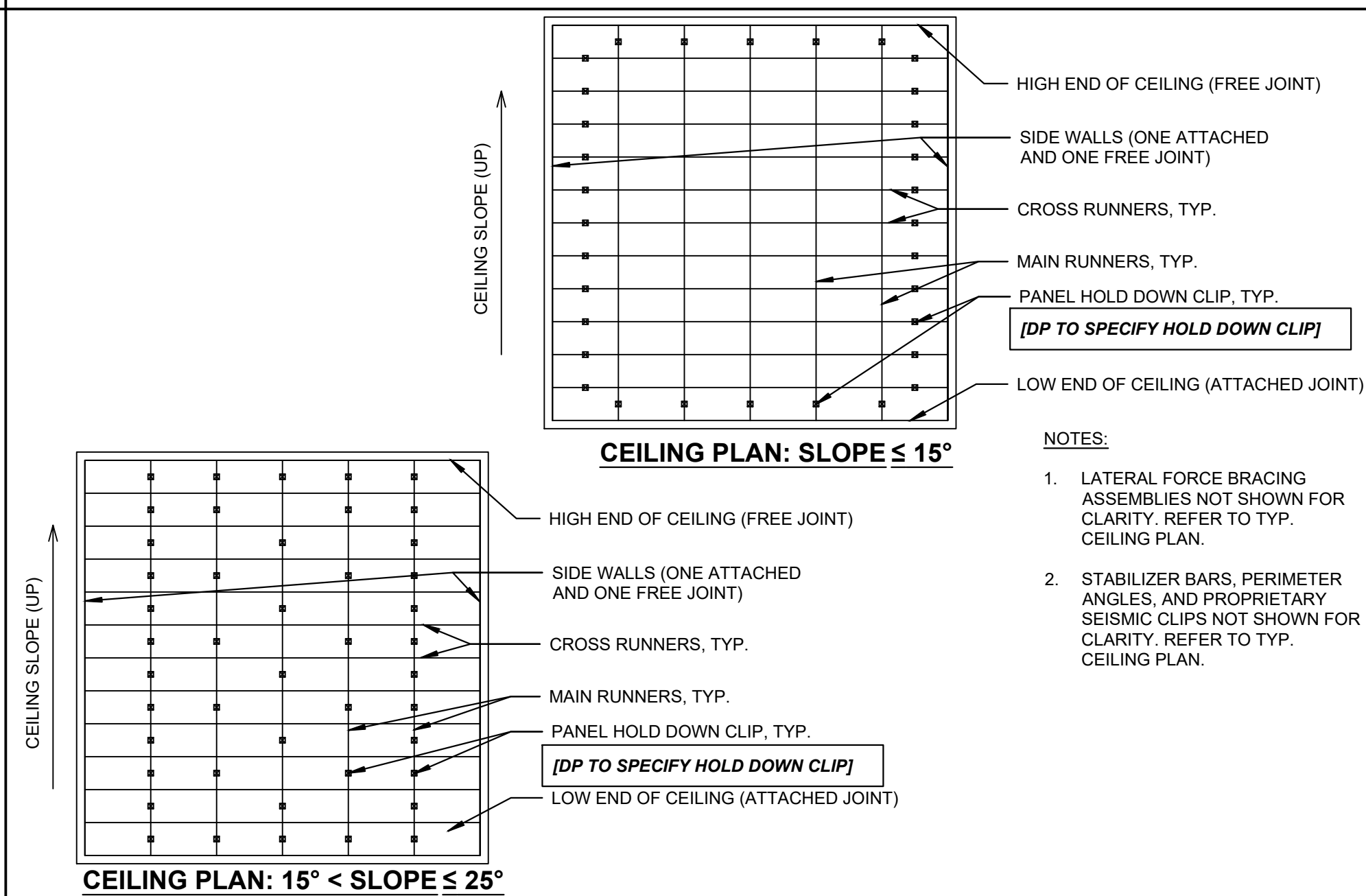
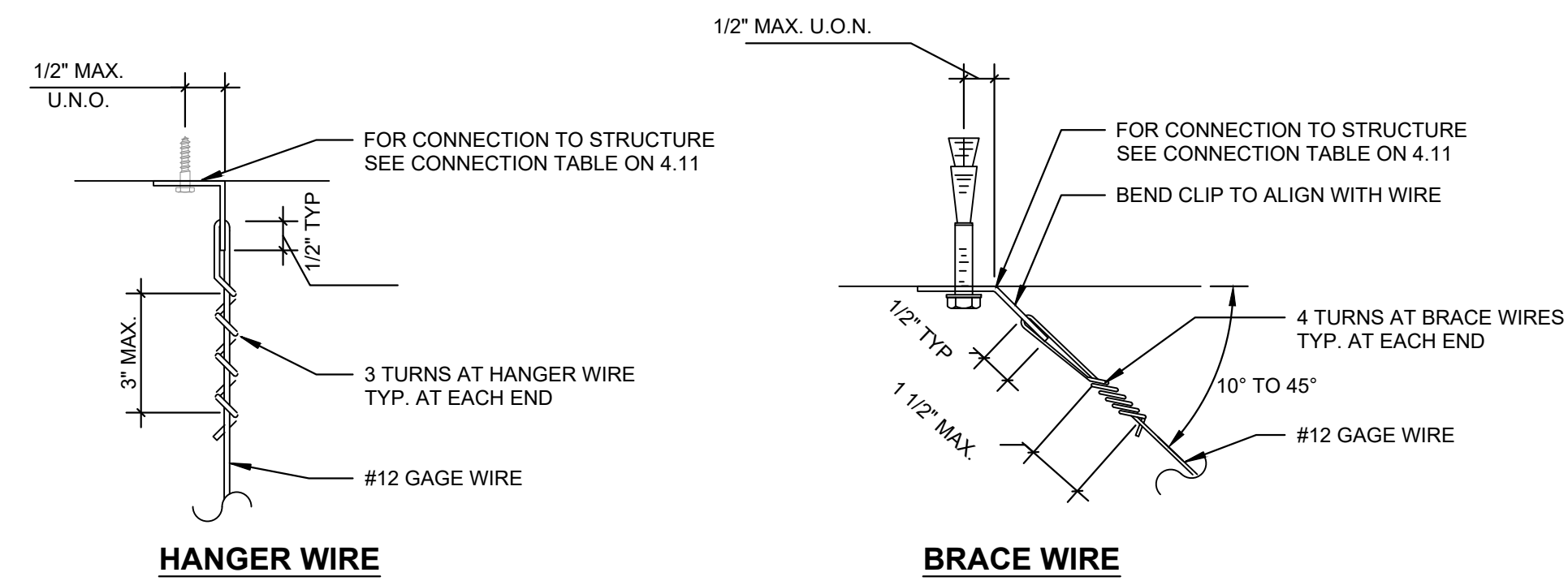
COMPRESSION STRUT CHANNEL SECTION	MAXIMUM LENGTH
250S125-33	5' - 10"
250S137-33	6' - 10"
362S137-33	8' - 0"
250S137-43	8' - 10"
400S137-43	10' - 10"



**3.21** COMPRESSION STRUT TABLE  
SCALE: N.T.S.

**2.80** LUMINAIRE / AIR TERMINAL SUPPORT  
SCALE: N.T.S.

**2.45** SEISMIC SEPARATION JOINT  
SCALE: N.T.S.

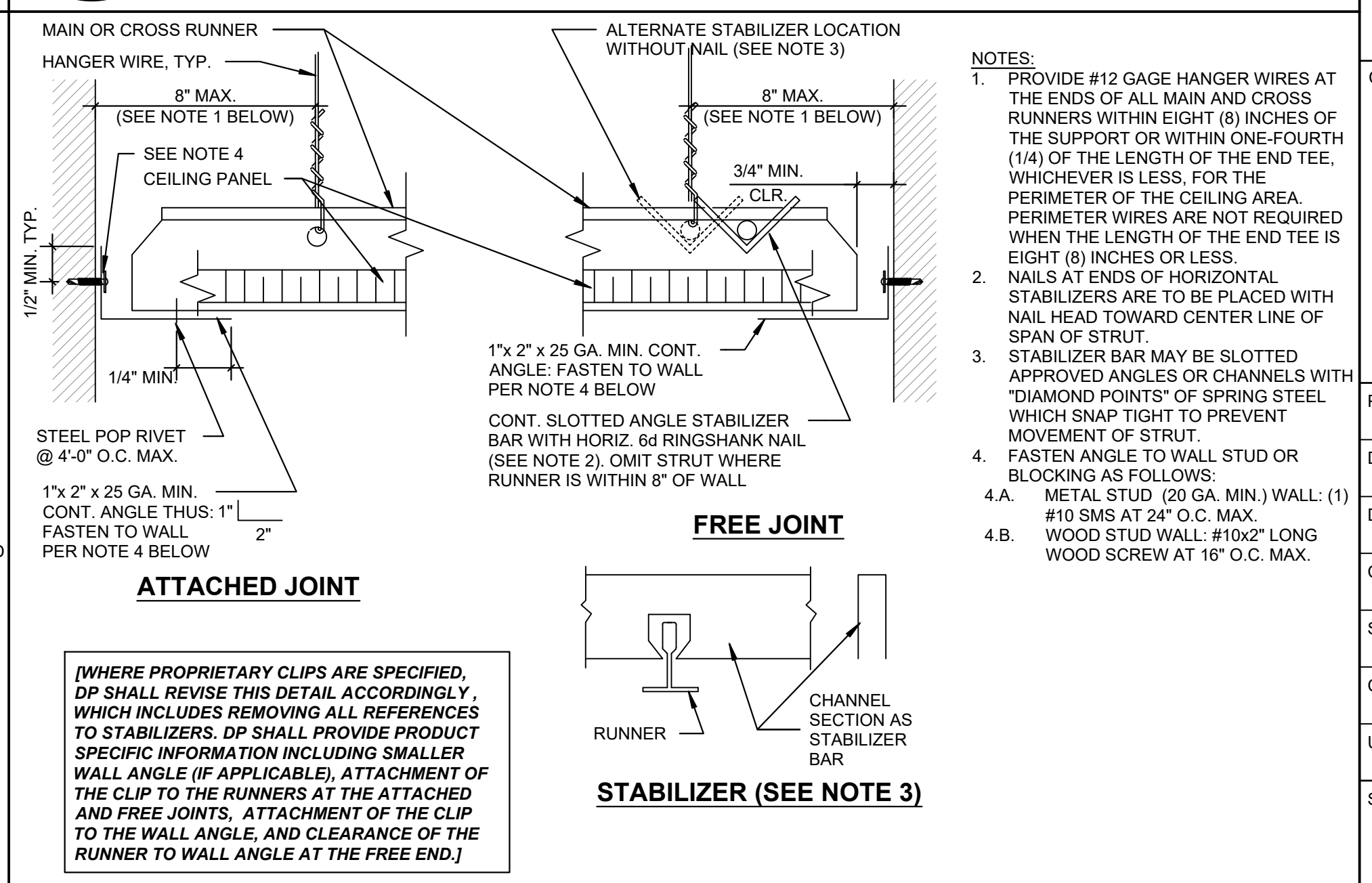
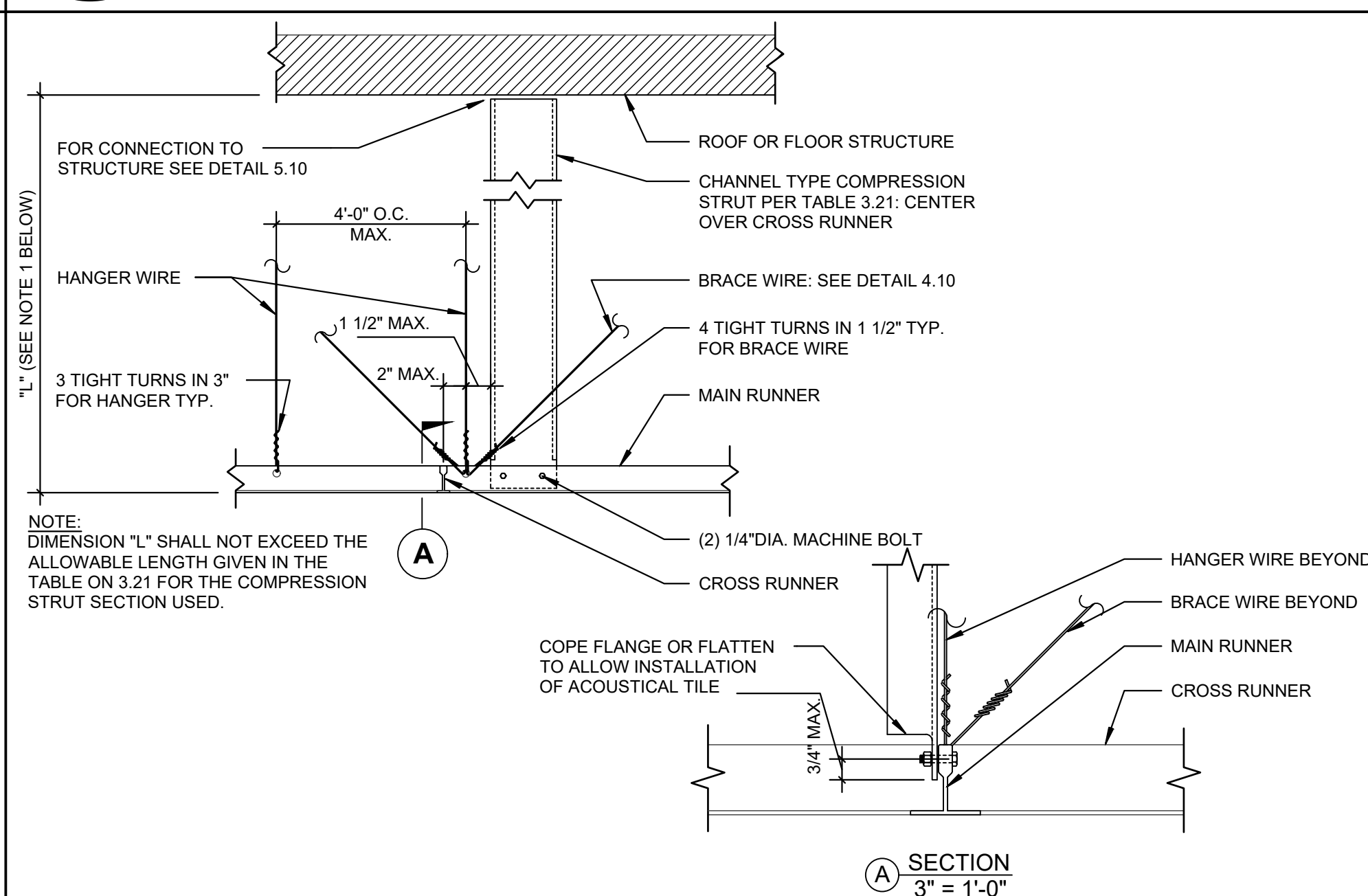


**4.10** HANGER AND BRACE WIRE CONNECTIONS: TYP. WIRE TURN  
SCALE: N.T.S.

**2.90** PANEL HOLD DOWN CLIPS AT SLOPED CEILING  
SCALE: N.T.S.

**2.50** TYP. SECTION AT EXIT CORRIDOR (ESSENTIAL BUILDING SERVICES)  
SCALE: N.T.S.

STRUCTURAL SYSTEM OF FLOOR/ ROOF ABOVE SUSPENDED CEILING	APPLICABLE HANGER WIRE DETAIL	APPLICABLE BRACE WIRE DETAIL
BARE METAL DECK	4.20	[TO BE PROVIDED BY DP]
CONCRETE OVER METAL DECK	4.21	4.30 & 4.31
CONCRETE SLAB, BEAM, OR JOIST	4.22	4.32
STRUCTURAL STEEL	4.23	4.33
METAL STUD WALL	4.24	4.34
SAWN TIMBER	4.25 & 4.29	4.35
WOOD I-JOIST	4.26	4.36 & 4.37
WOOD CHORD TRUSS	4.27 & 4.29	4.38 & 4.29
OPEN WEB STEEL JOIST	4.28 & 4.29	4.39 & 4.29

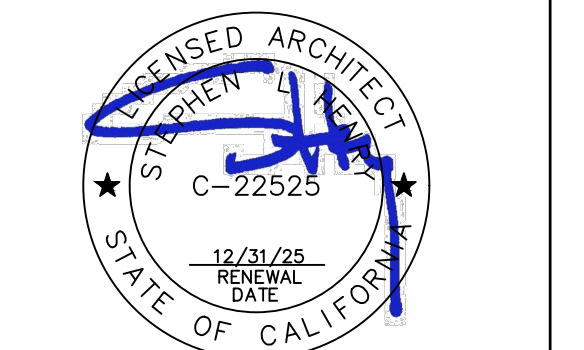


**4.11** HANGER AND BRACE WIRE CONNECTIONS TABLE  
SCALE: N.T.S.

**3.10** COMPRESSION STRUT - CHANNEL TYPE  
SCALE: N.T.S.

**2.60** CEILING PERIMETER  
SCALE: N.T.S.

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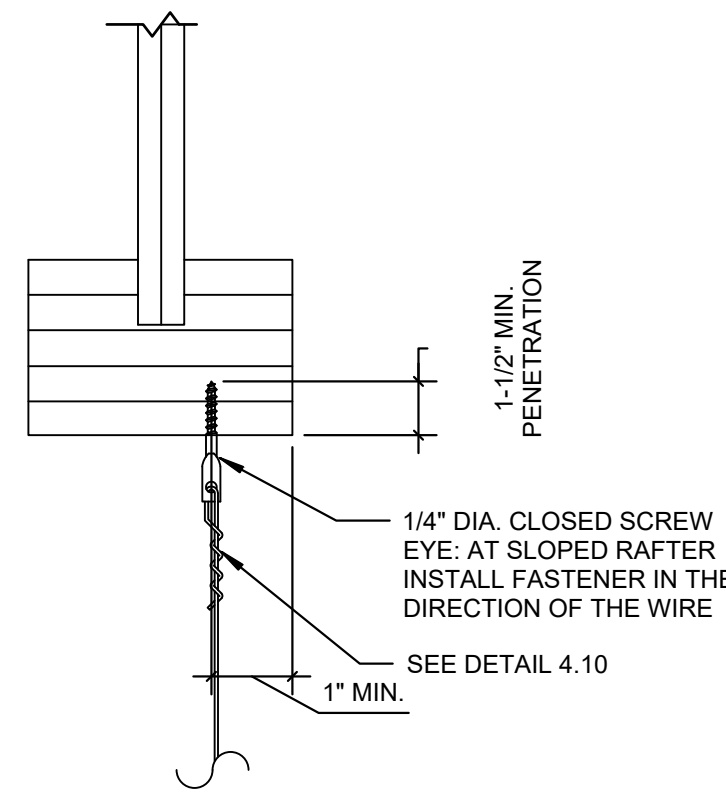
CULINARY LAB  
VENTURE ACADEMY

SUSPENDED LAY-IN  
PANEL CEILING DETAILS

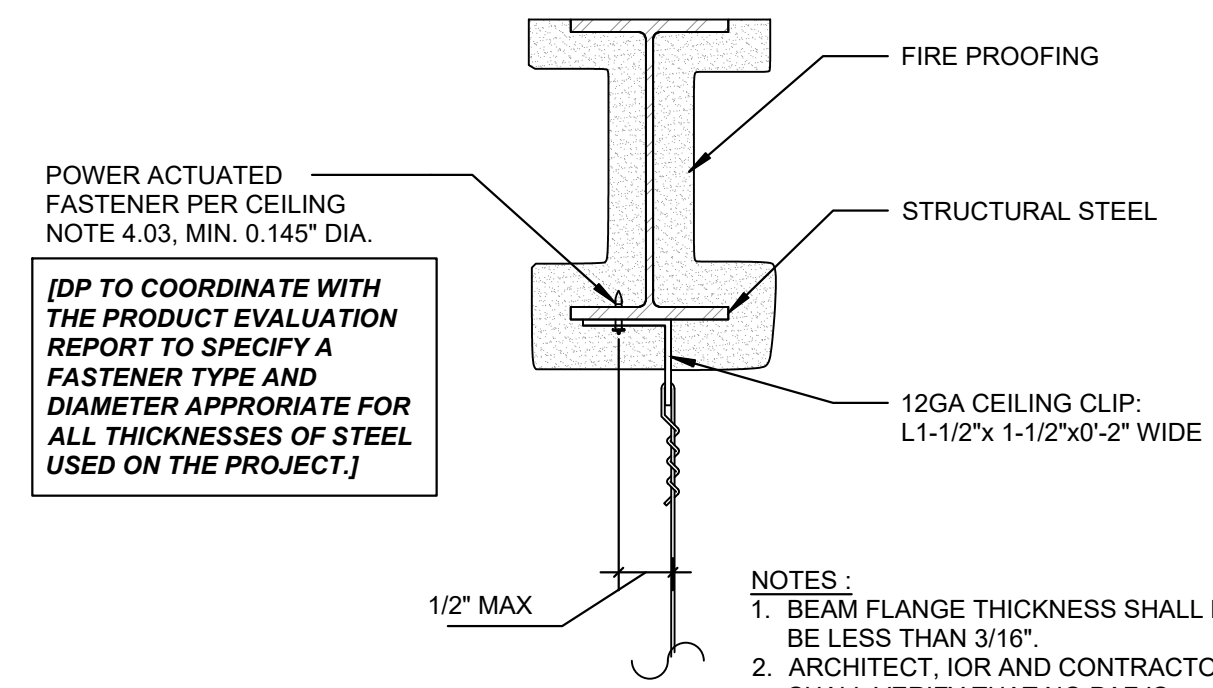
CONSULTANT

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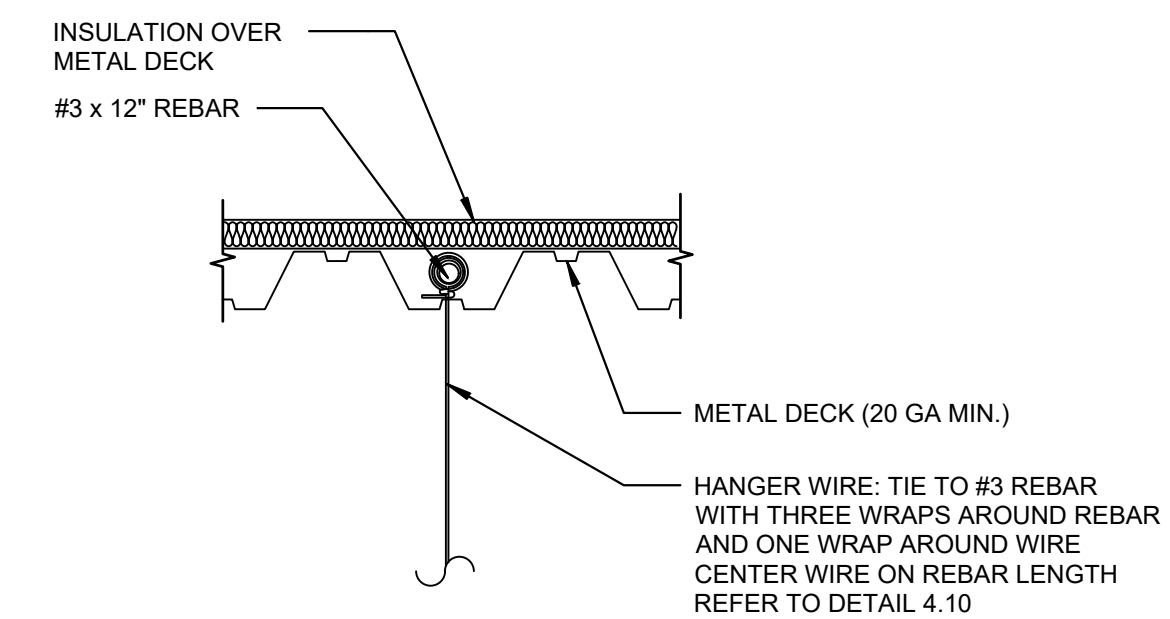
A8.3.2



NOTE:  
WHEN FIRE RATED GYP. BOARD IS INSTALLED ON THE BOTTOM FLANGES, USE SCREW EYES W/ SUFFICIENT LENGTH TO AVOID DAMAGING THE FIRE RATED GYP. BOARD AND MEET MIN. PENETRATION.



**HANGER WIRE**

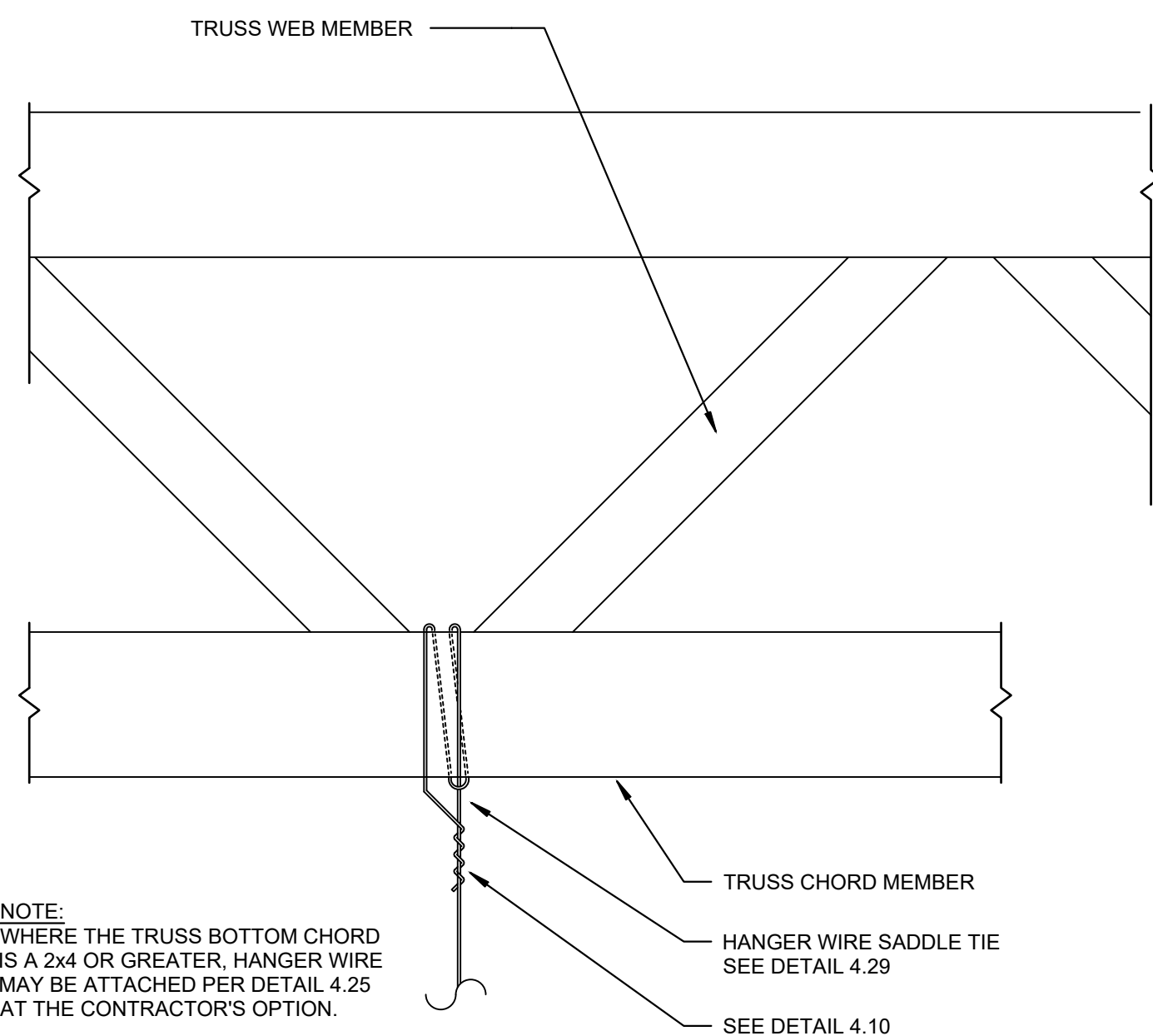


NOTES:  
1. REFER TO DETAIL 4.10 FOR ADDITIONAL INFORMATION.

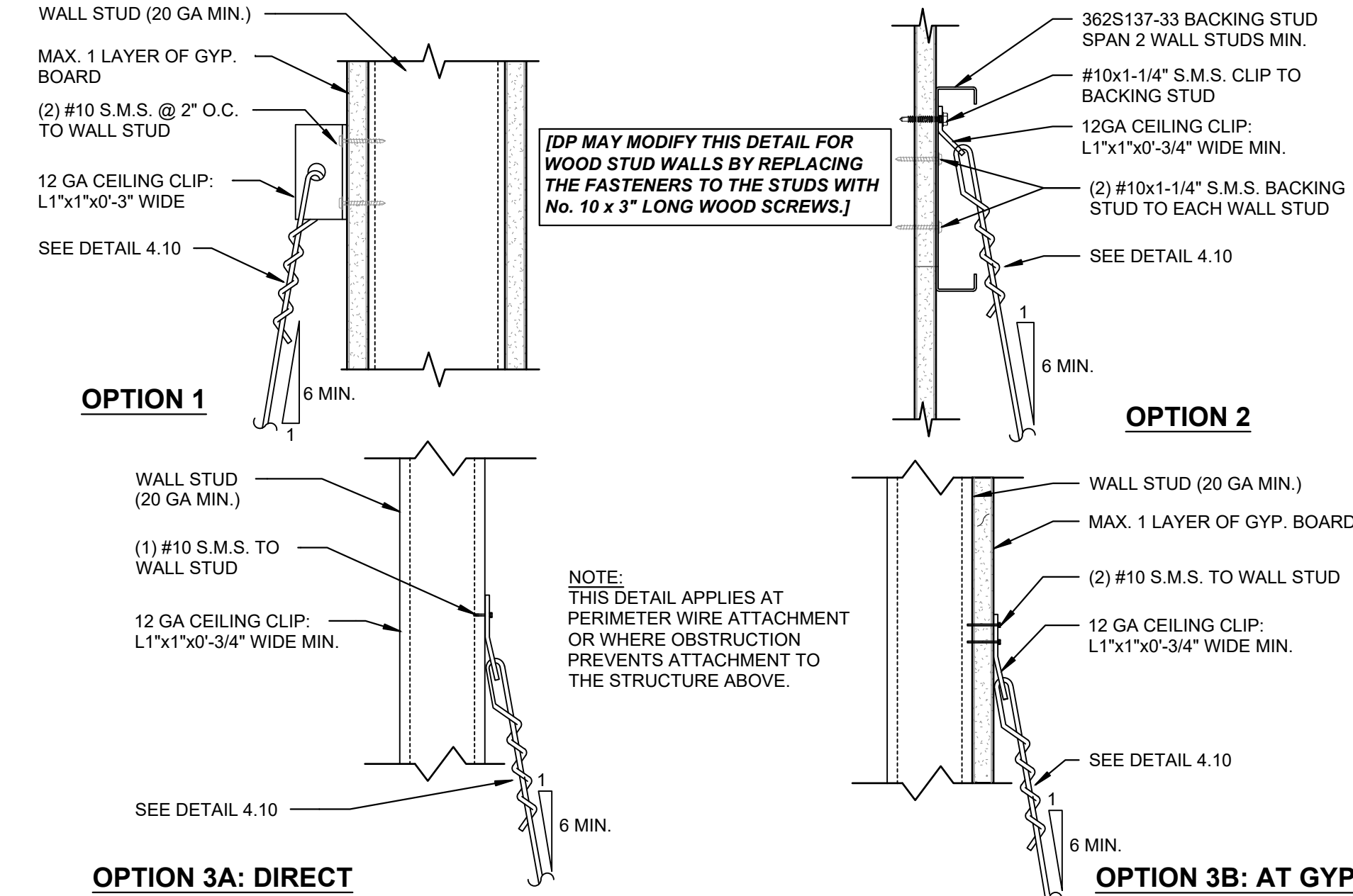
**4.26 HANGER WIRE CONNECTION TO WOOD I-JOIST**  
SCALE: N.T.S.

**4.23 HANGER WIRE CONNECTION TO STRUCTURE STEEL**  
SCALE: N.T.S.

**4.20 HANGER WIRE CONNECTION TO METAL DECK**  
SCALE: N.T.S.

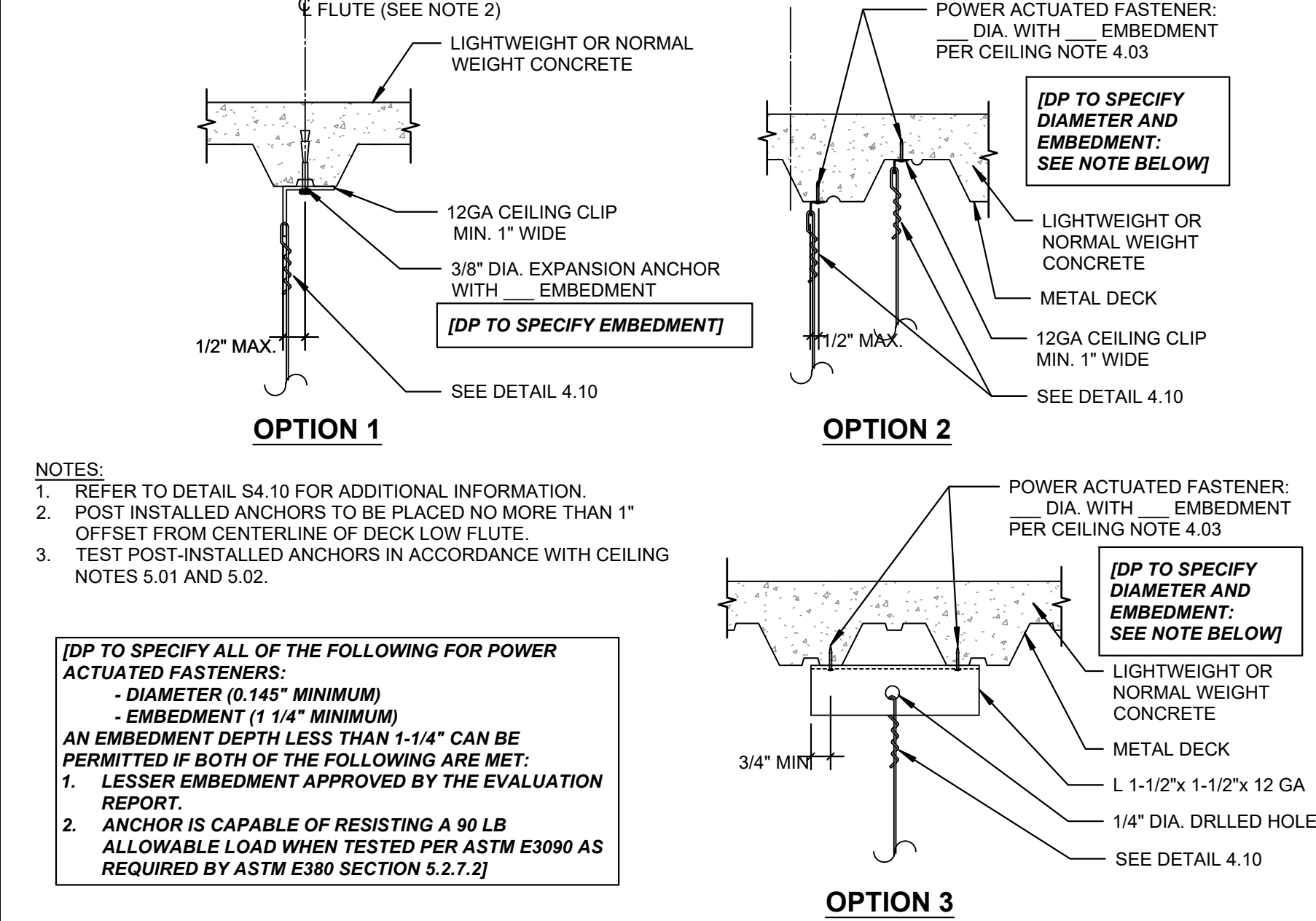


NOTE:  
WHERE THE TRUSS BOTTOM CHORD IS A 2x4 OR GREATER, HANGER WIRE MAY BE ATTACHED PER DETAIL 4.25 AT THE CONTRACTOR'S OPTION.



[DP MAY MODIFY THIS DETAIL FOR WOOD STUD WALLS BY REPLACING THE FASTENERS TO THE STUDS WITH No. 10 x 3" LONG WOOD SCREWS.]

NOTE:  
THIS DETAIL APPLIES AT PERIMETER WIRE ATTACHMENT OR WHERE OBSTRUCTION PREVENTS ATTACHMENT TO THE STRUCTURE ABOVE.



NOTES:  
1. REFER TO DETAIL S4.10 FOR ADDITIONAL INFORMATION.  
2. POST INSTALLED ANCHORS TO BE PLACED NO MORE THAN 1" OFFSET FROM CENTERLINE OF DECK/LOW FLUTE.  
3. TEST POST-INSTALLED ANCHORS IN ACCORDANCE WITH CEILING NOTES 5.01 AND 5.02.

[DP TO SPECIFY ALL OF THE FOLLOWING FOR POWER ACTUATED FASTENERS:  
- DIAMETER (0.145" MINIMUM)  
- EMBEDMENT (1 1/4" MINIMUM)  
AN EMBEDMENT DEPTH LESS THAN 1-1/4" CAN BE PERMITTED IF BOTH OF THE FOLLOWING ARE MET:  
1. LESSER EMBEDMENT APPROVED BY THE EVALUATION REPORT.  
2. ANCHOR IS CAPABLE OF RESISTING A 90 LB ALLOWABLE LOAD WHEN TESTED PER ASTM E3090 AS REQUIRED BY ASTM E380 SECTION 5.2.7.2.]

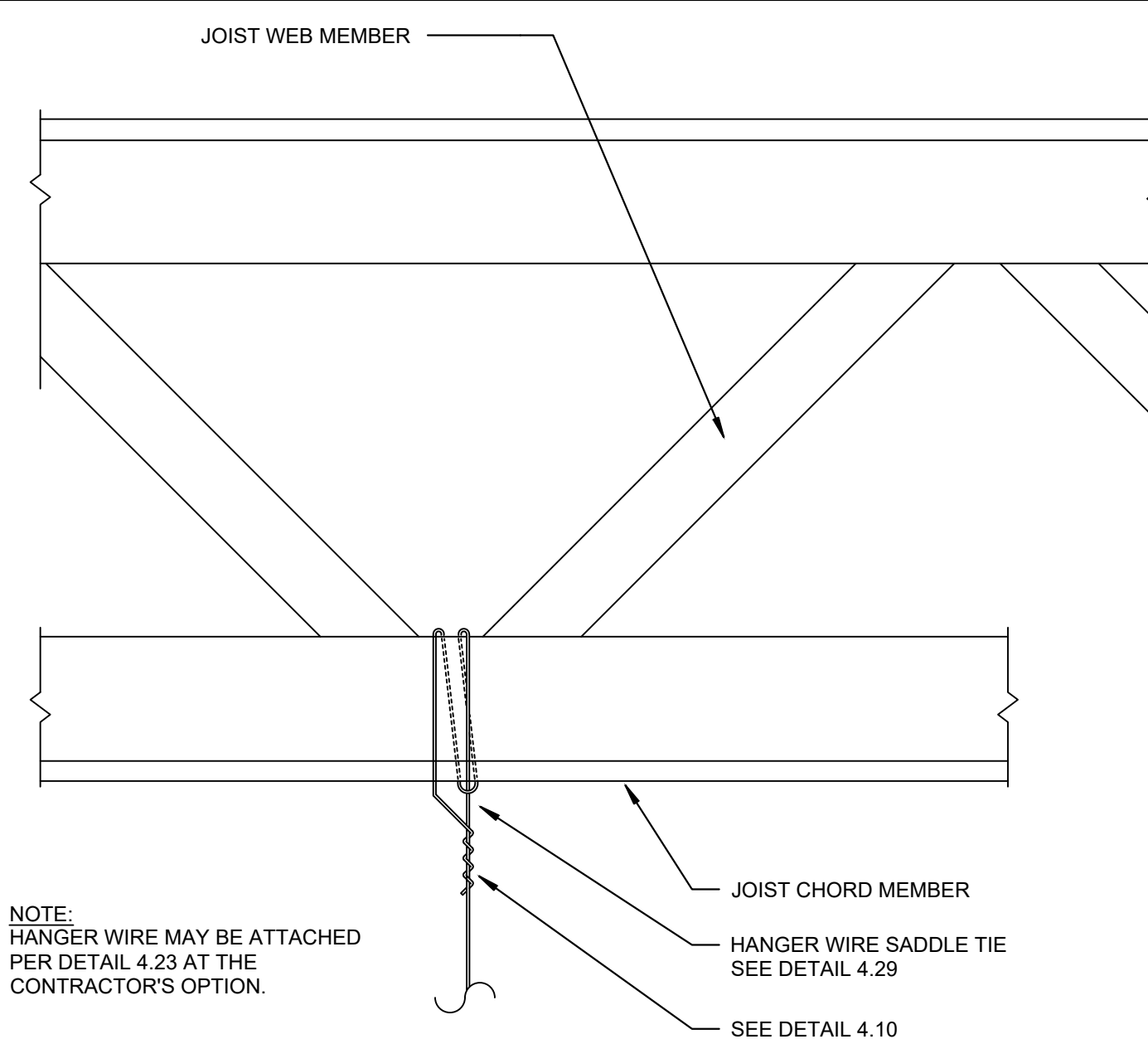
[DP TO SPECIFY DIAMETER AND EMBEDMENT: SEE NOTE BELOW]

[DP TO SPECIFY DIAMETER AND EMBEDMENT: SEE NOTE BELOW]

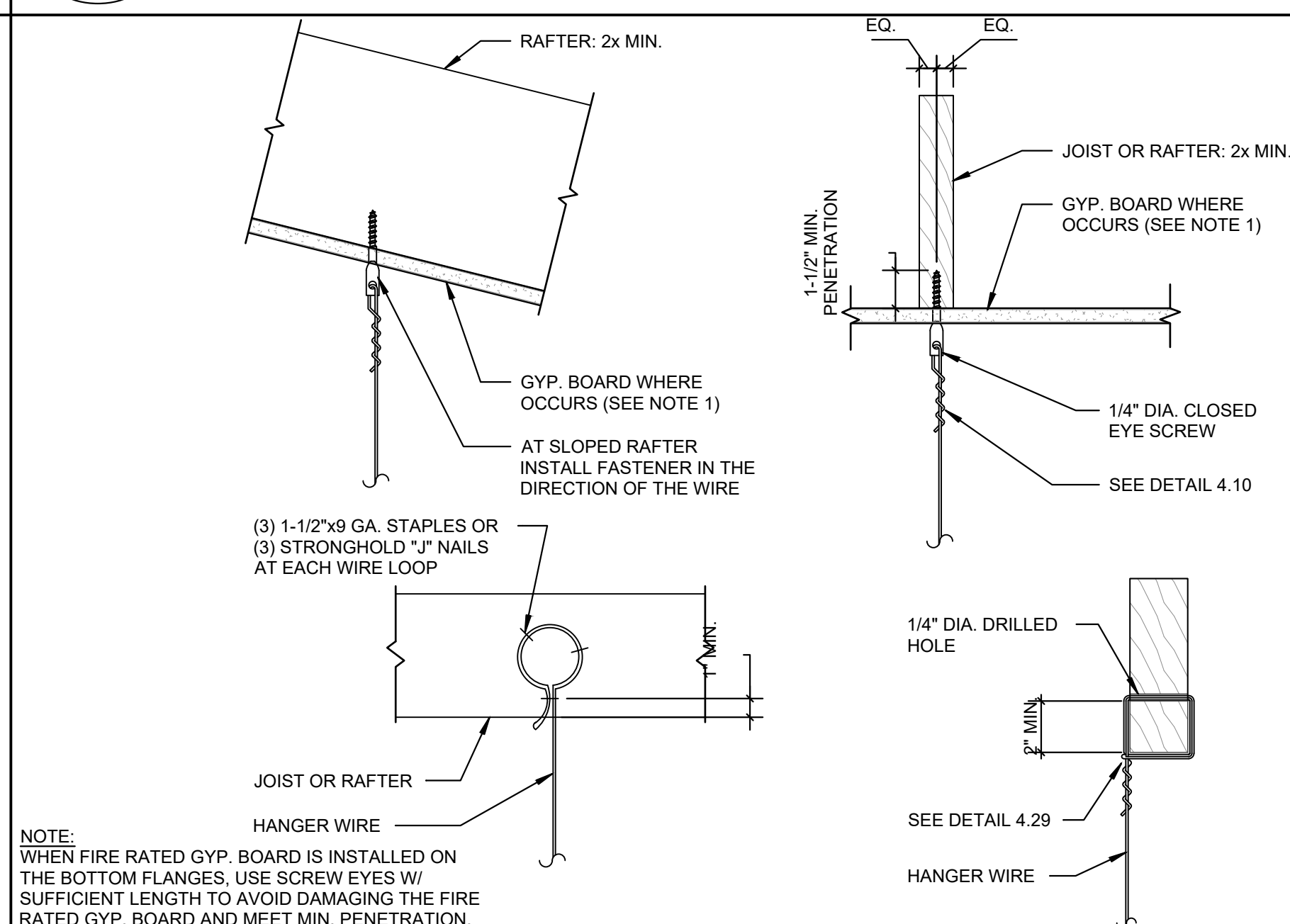
**4.27 HANGER WIRE CONNECTION TO WOOD CHORD TRUSS**  
SCALE: N.T.S.

**4.24 HANGER WIRE CONNECTION TO METAL STUD WALL**  
SCALE: N.T.S.

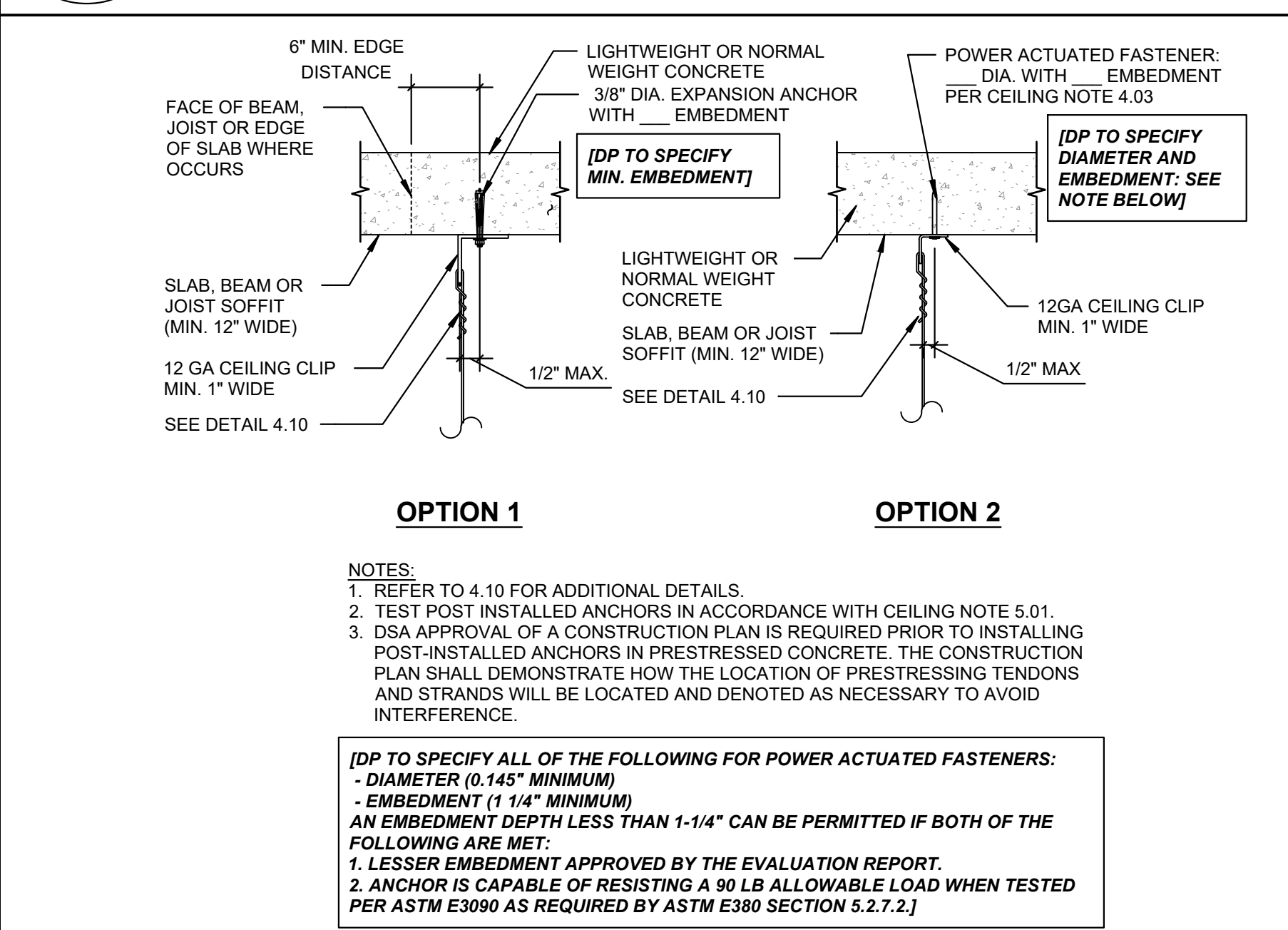
**4.21 HANGER WIRE CONNECTION TO CONCRETE OVER METAL DECK**  
SCALE: N.T.S.



NOTE:  
HANGER WIRE MAY BE ATTACHED PER DETAIL 4.23 AT THE CONTRACTOR'S OPTION.



NOTE:  
WHEN FIRE RATED GYP. BOARD IS INSTALLED ON THE BOTTOM FLANGES, USE SCREW EYES W/ SUFFICIENT LENGTH TO AVOID DAMAGING THE FIRE RATED GYP. BOARD AND MEET MIN. PENETRATION.



NOTES:  
1. REFER TO 4.10 FOR ADDITIONAL DETAILS.  
2. TEST POST INSTALLED ANCHORS IN ACCORDANCE WITH CEILING NOTE 5.01.  
3. DSA APPROVAL OF A CONSTRUCTION PLAN IS REQUIRED PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PRESTRESSED CONCRETE. THE CONSTRUCTION PLAN SHALL DEMONSTRATE HOW THE LOCATION OF PRESTRESSING TENDONS AND STRANDS WILL BE LOCATED AND DENOTED AS NECESSARY TO AVOID INTERFERENCE.

[DP TO SPECIFY ALL OF THE FOLLOWING FOR POWER ACTUATED FASTENERS:  
- DIAMETER (0.145" MINIMUM)  
- EMBEDMENT (1 1/4" MINIMUM)  
AN EMBEDMENT DEPTH LESS THAN 1-1/4" CAN BE PERMITTED IF BOTH OF THE FOLLOWING ARE MET:  
1. LESSER EMBEDMENT APPROVED BY THE EVALUATION REPORT.  
2. ANCHOR IS CAPABLE OF RESISTING A 90 LB ALLOWABLE LOAD WHEN TESTED PER ASTM E3090 AS REQUIRED BY ASTM E380 SECTION 5.2.7.2.]

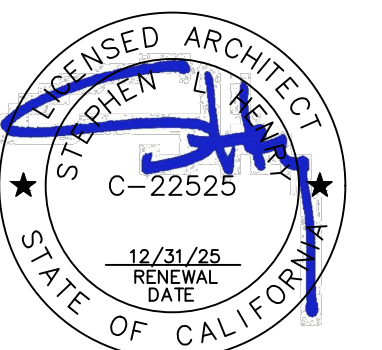
[DP TO SPECIFY DIAMETER AND EMBEDMENT: SEE NOTE BELOW]

**4.28 HANGER WIRE CONNECTION TO OPEN WEB STEEL JOIST**  
SCALE: N.T.S.

**4.25 HANGER WIRE CONNECTION TO SAWN TIMBER**  
SCALE: N.T.S.

**4.22 HANGER WIRE CONNECTION TO CONCRETE SLAB, BEAM, OR JOIST**  
SCALE: N.T.S.

730 Howe Avenue, Suite 450  
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Fax: 916.921.2212



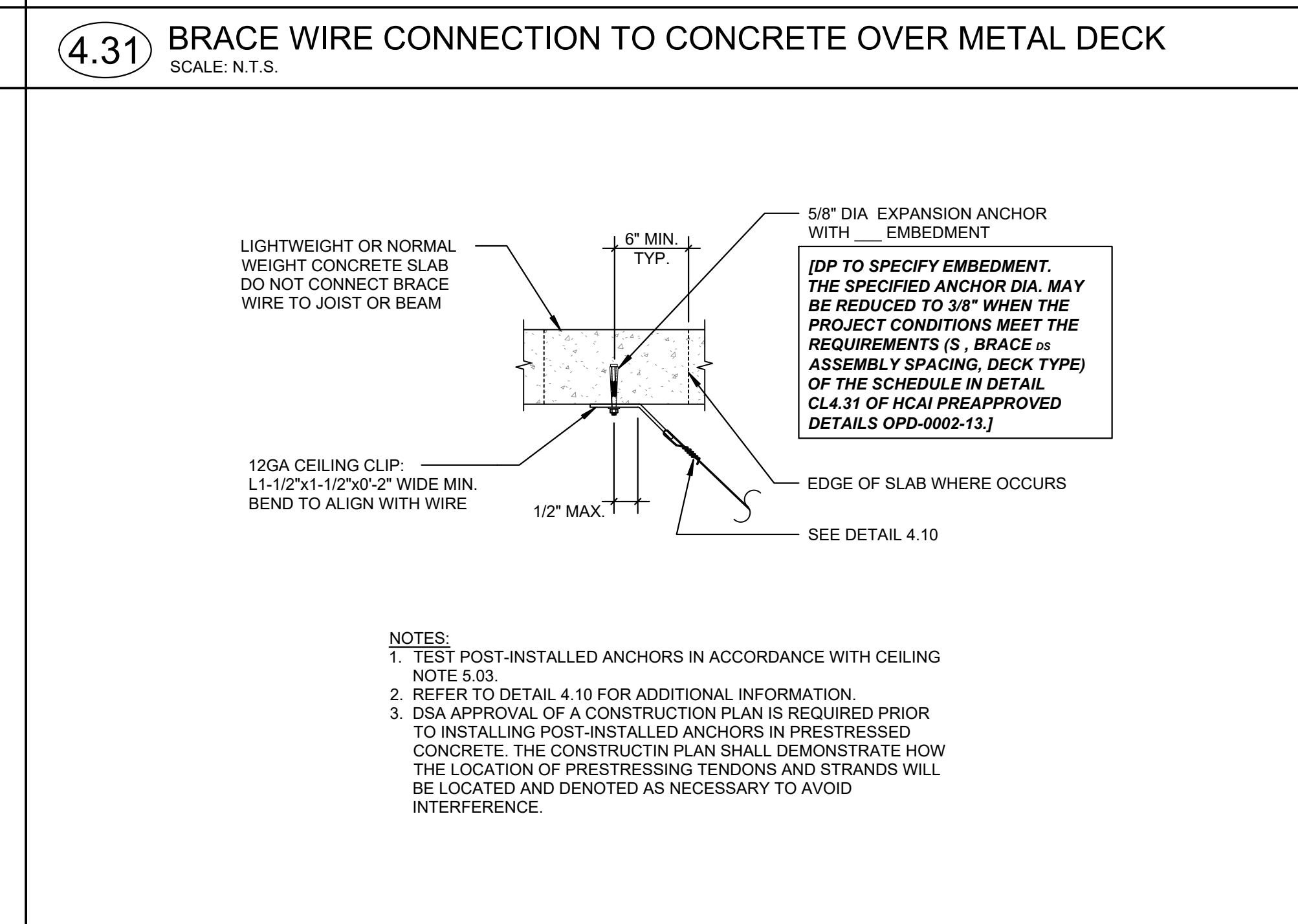
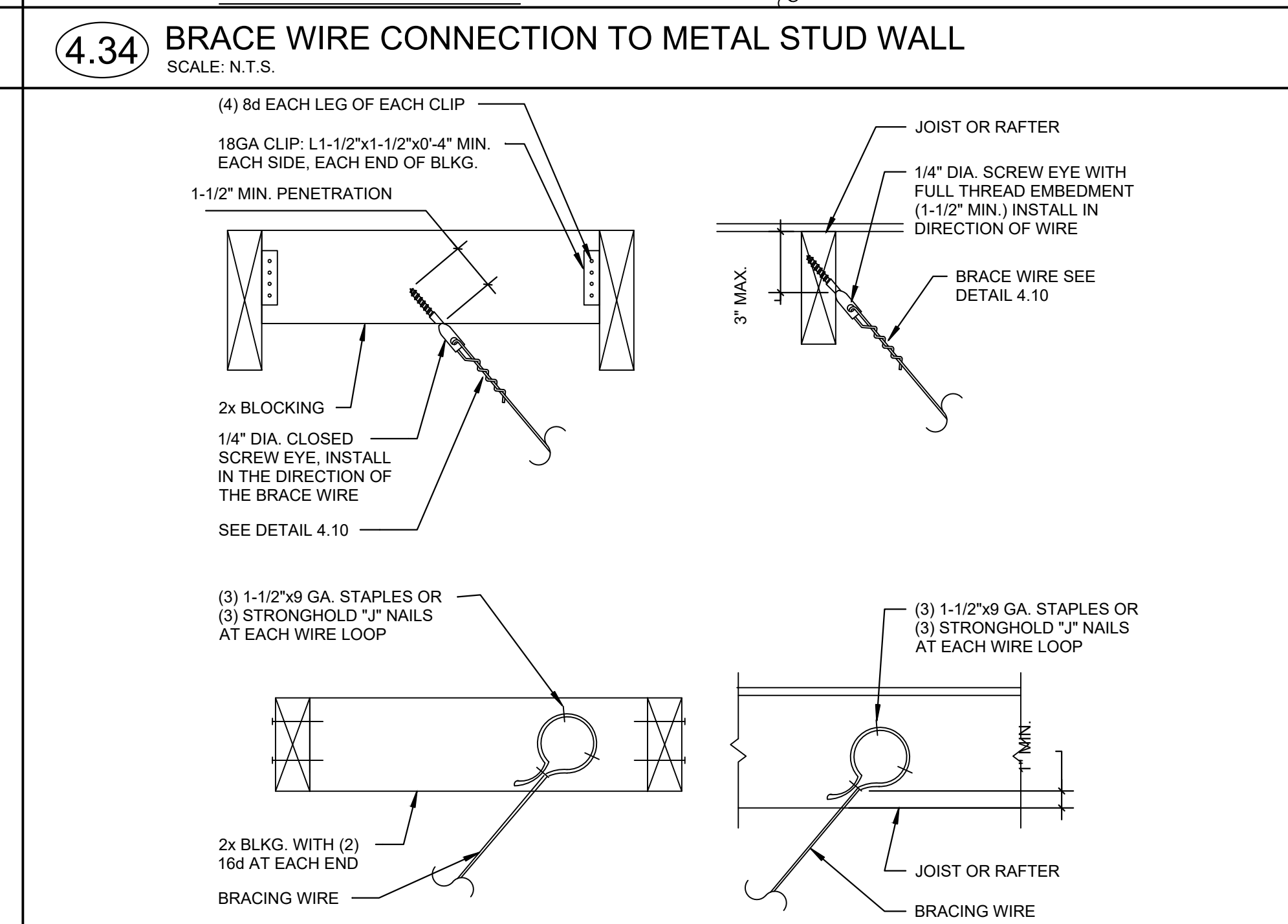
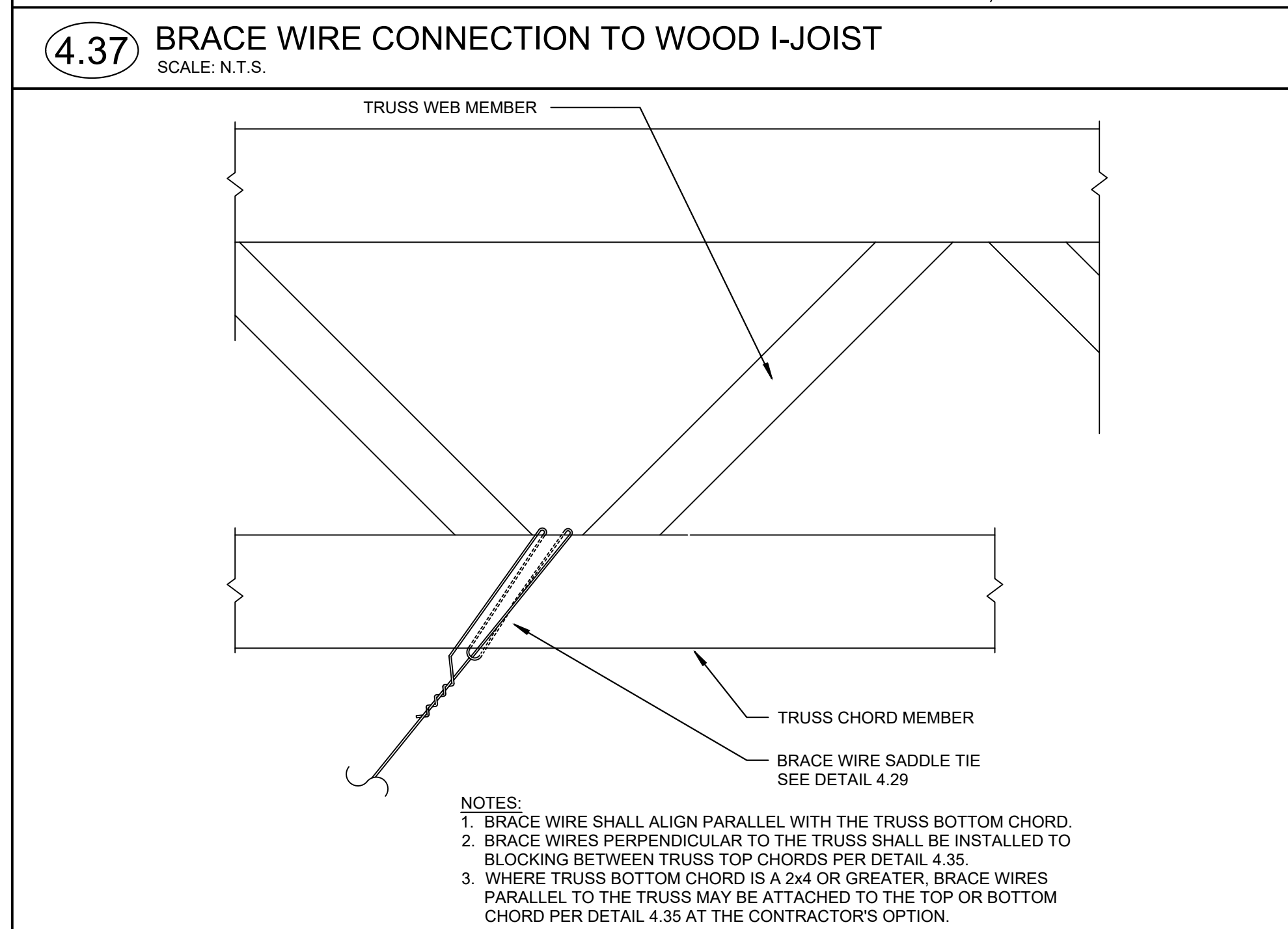
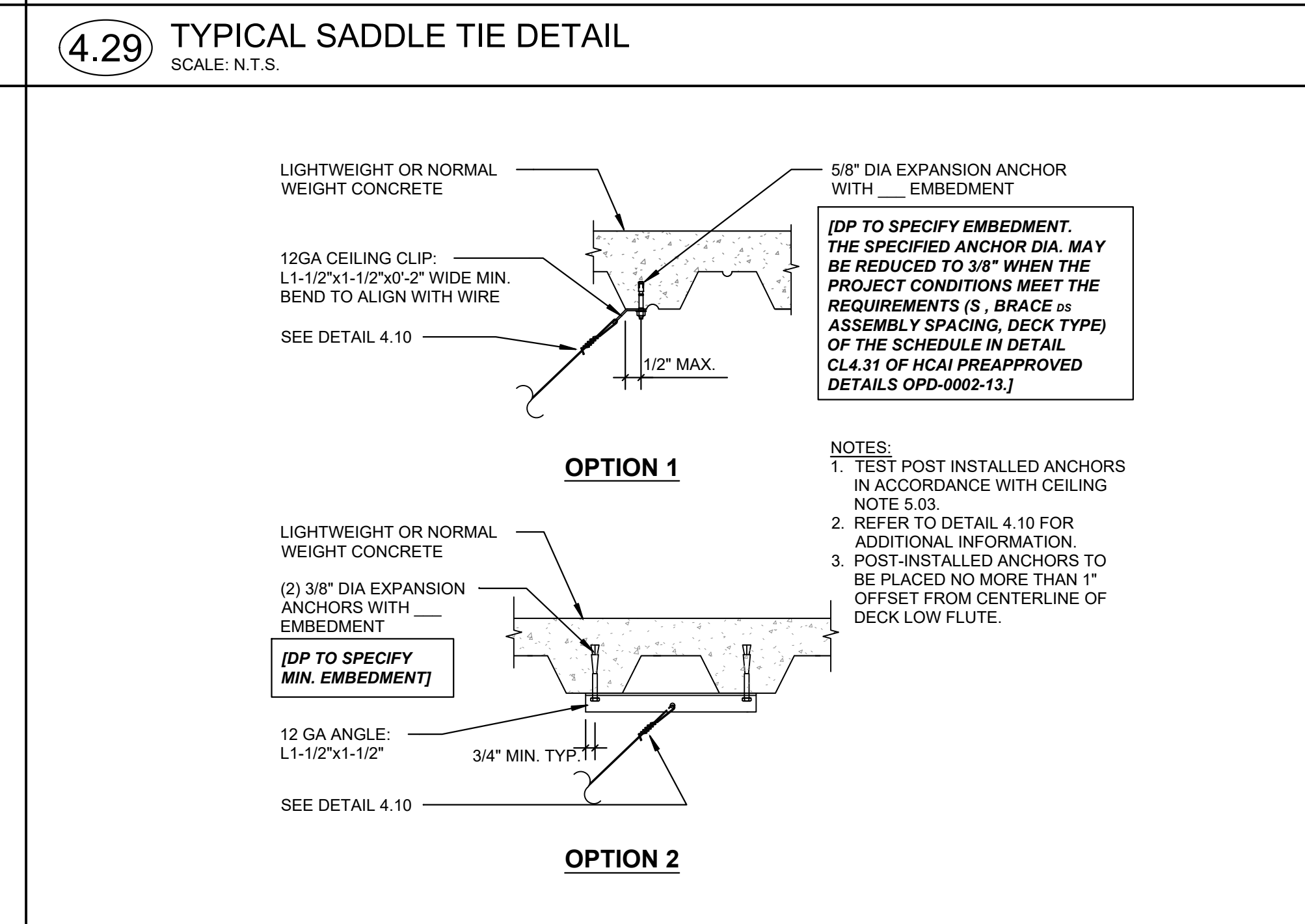
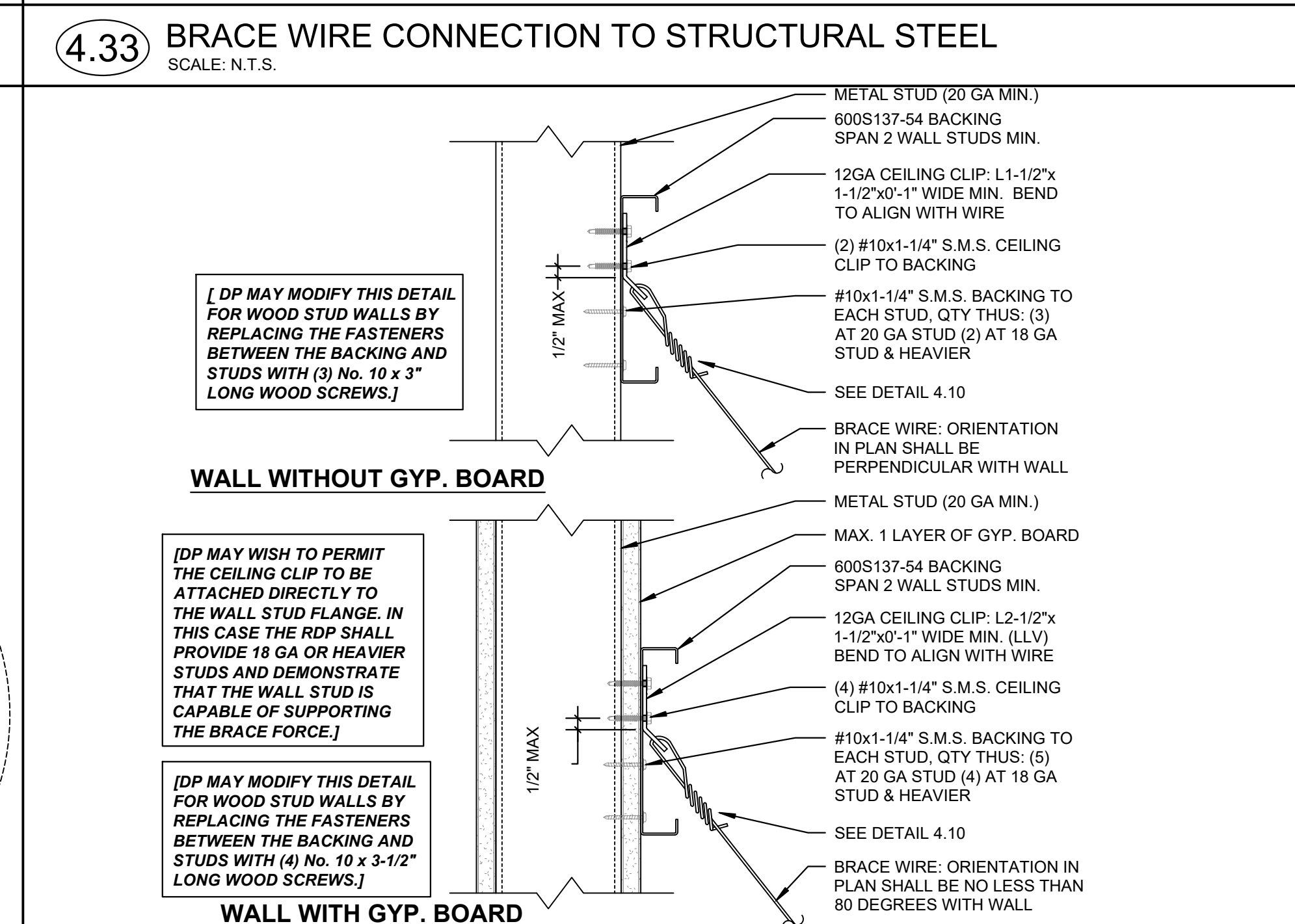
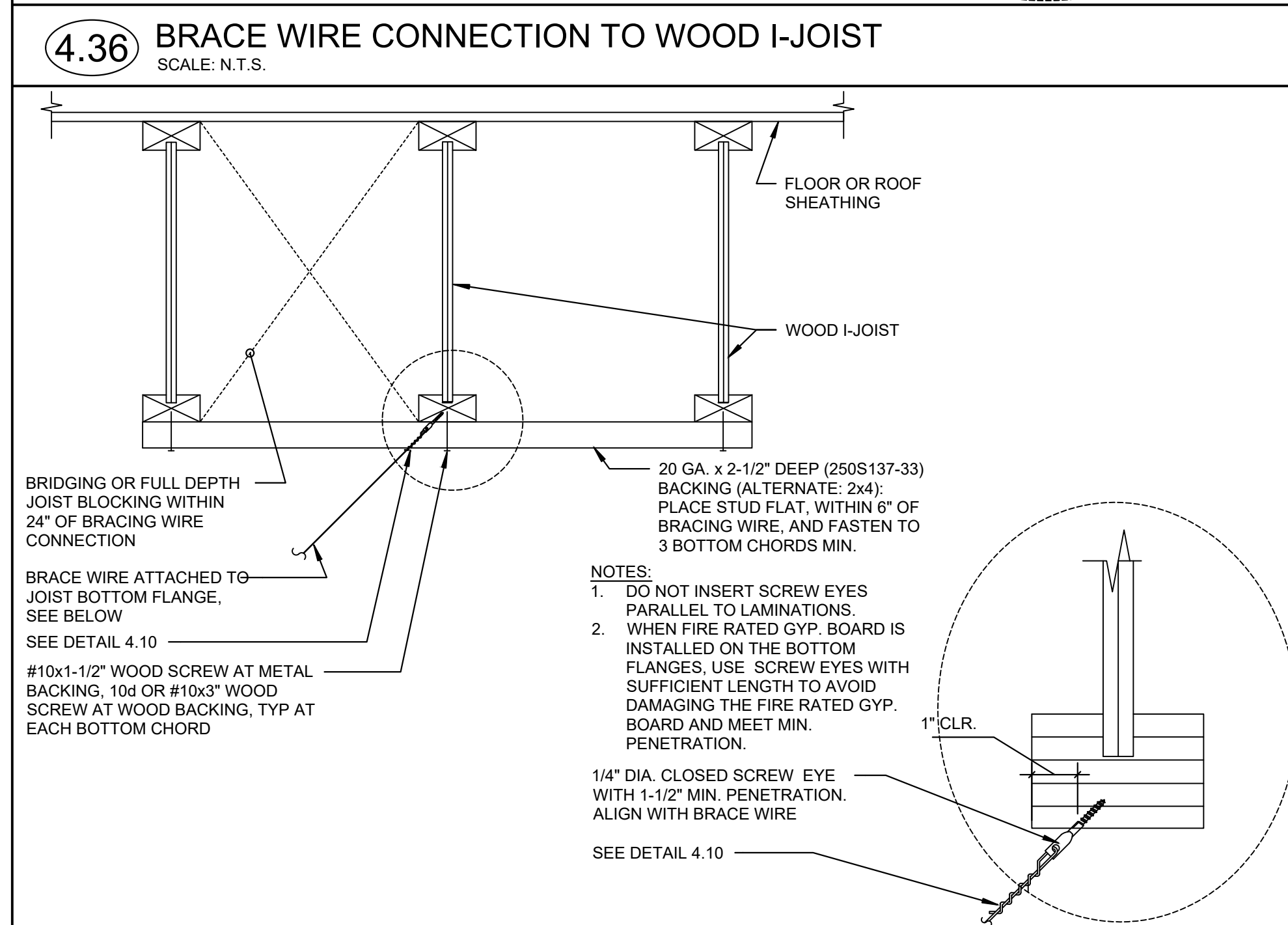
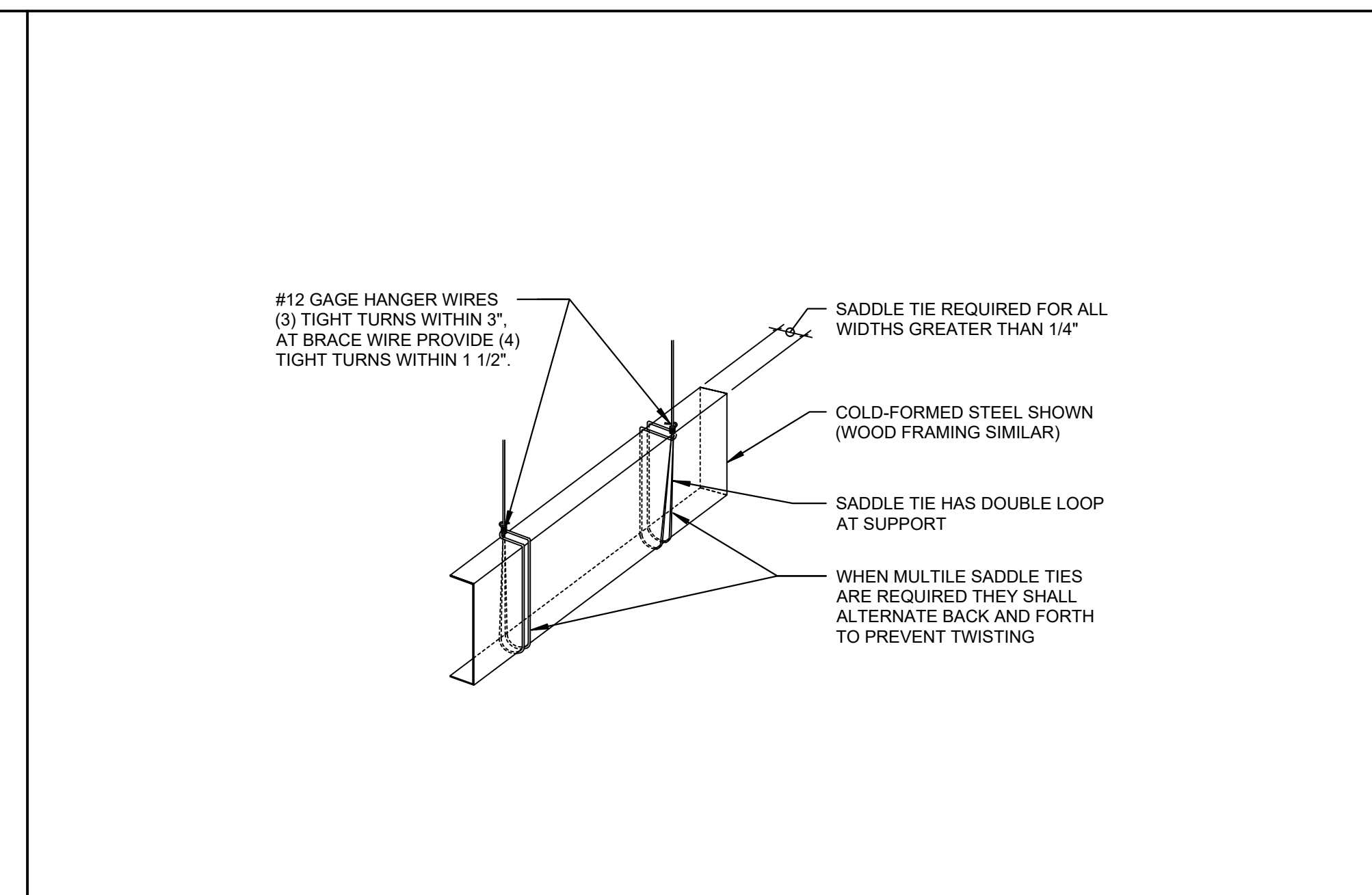
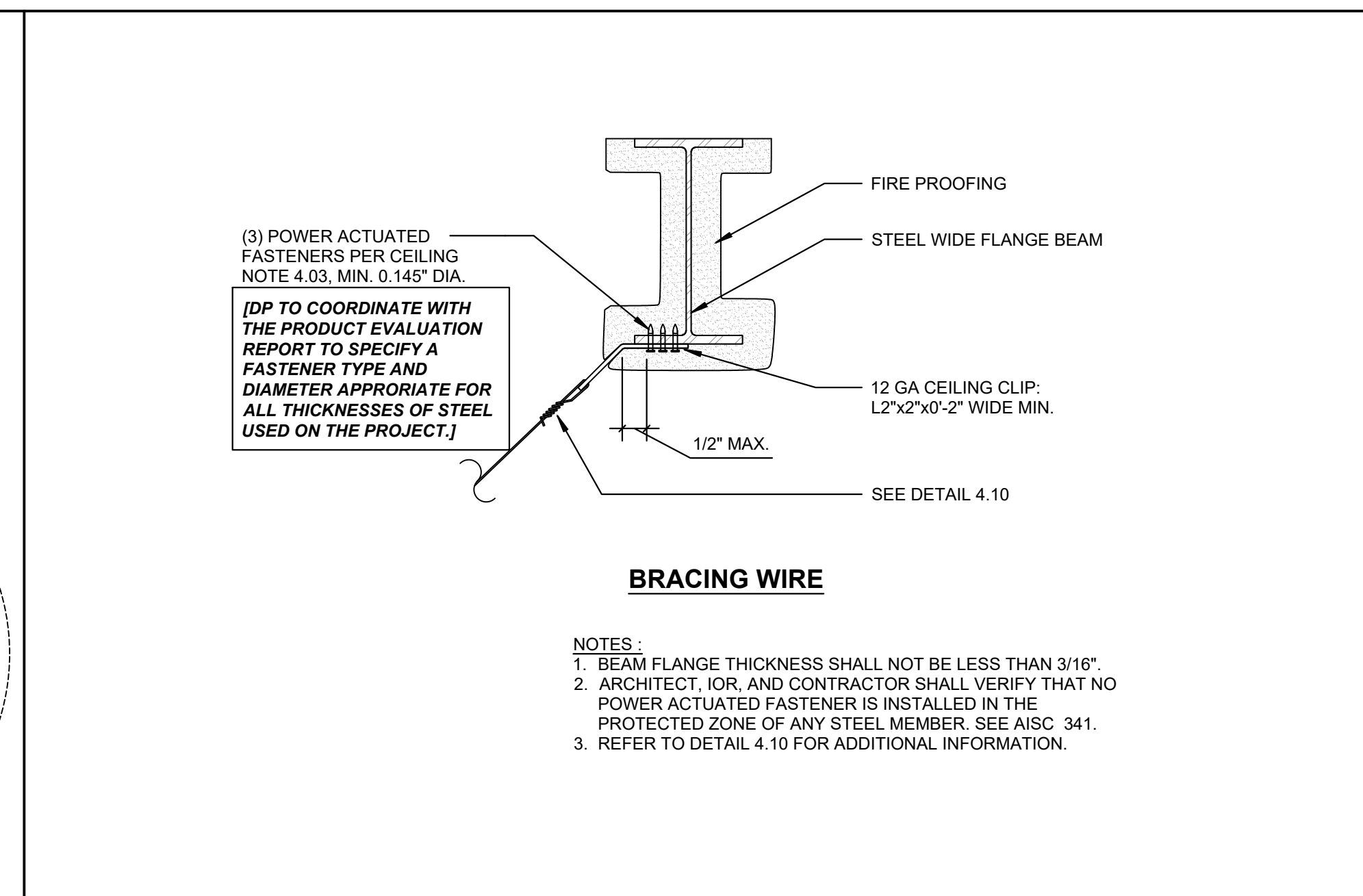
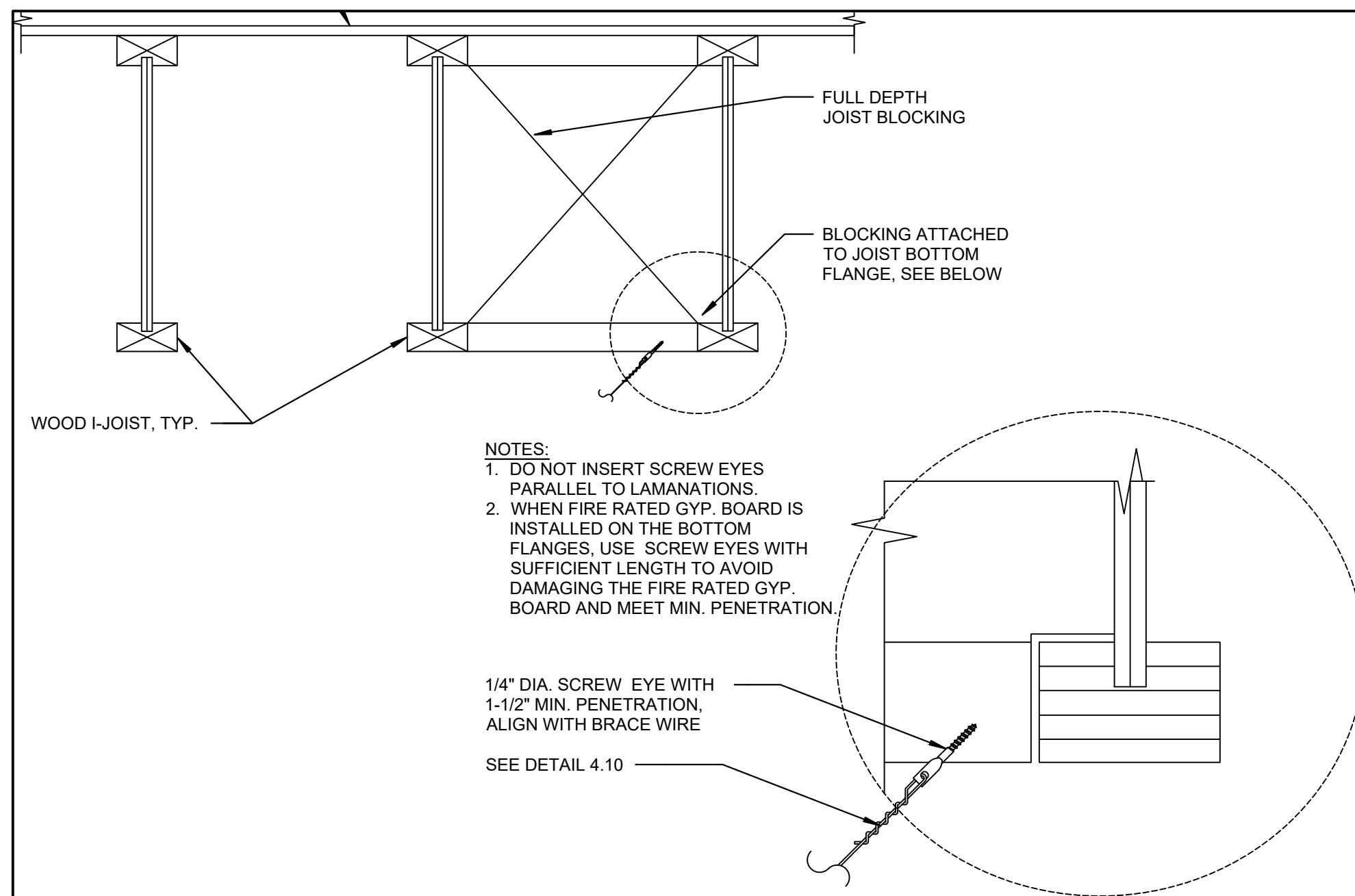
CULINARY LAB  
VENTURE ACADEMY

SUSPENDED LAY-IN  
PANEL CEILING DETAILS

CONSULTANT

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**A8.3.3**

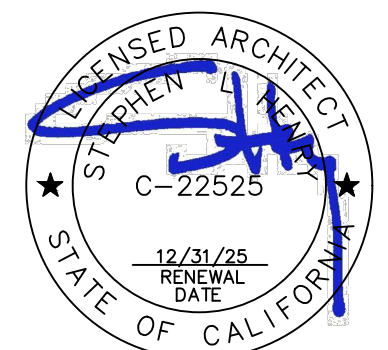


4.38 BRACE WIRE CONNECTION TO WOOD CHORD TRUSS  
SCALE: N.T.S.

4.35 BRACE WIRE CONNECTION TO SAWN TIMBER  
SCALE: N.T.S.

4.32 BRACE WIRE CONNECTION TO CONCRETE SLAB, BEAM, OR JOIST  
SCALE: N.T.S.

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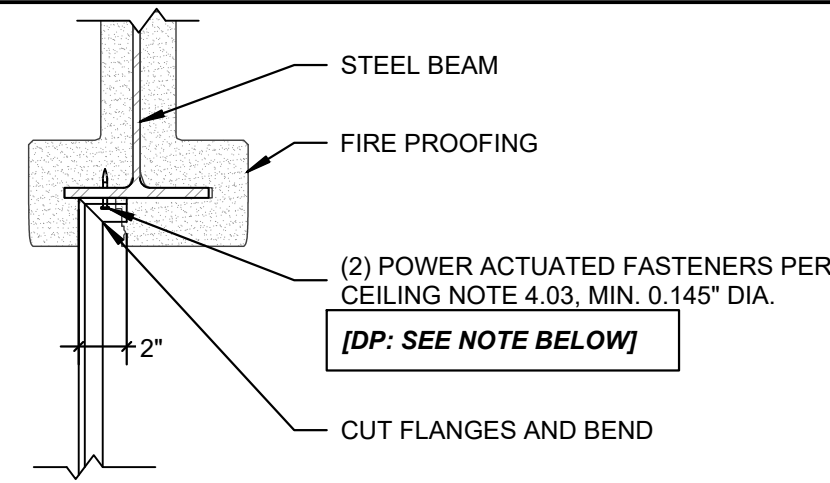
SUSPENDED LAY-IN  
PANEL CEILING DETAILS

CONSULTANT

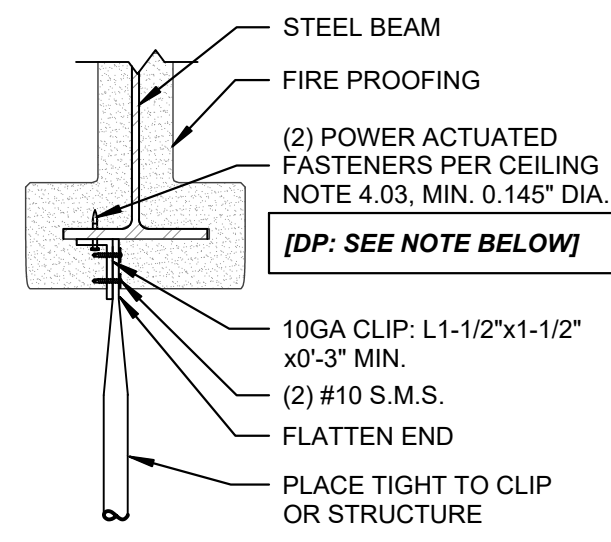
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A8.3.4

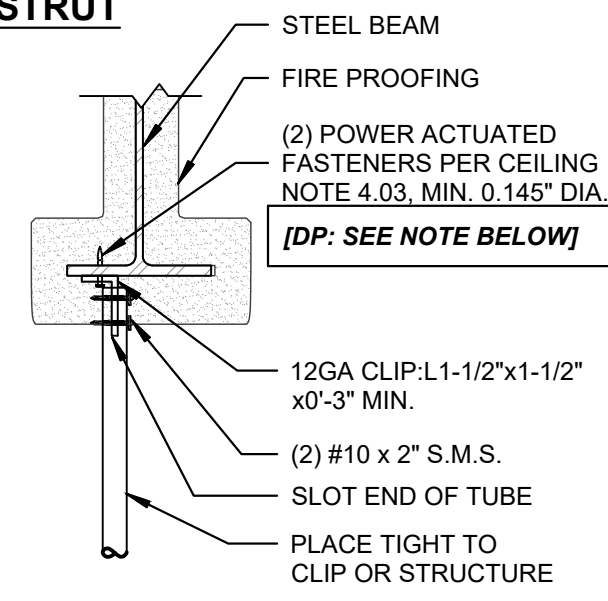
- NOTES:  
 1. STRUCTURAL STEEL MEMBER SHALL NOT BE LESS THAN 3/16".  
 2. ARCHITECT, I.O.R. AND CONTRACTOR SHALL VERIFY THAT NO POWER ACTUATED FASTENER IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER, SEE AISC 341.



**CHANNEL STRUT**

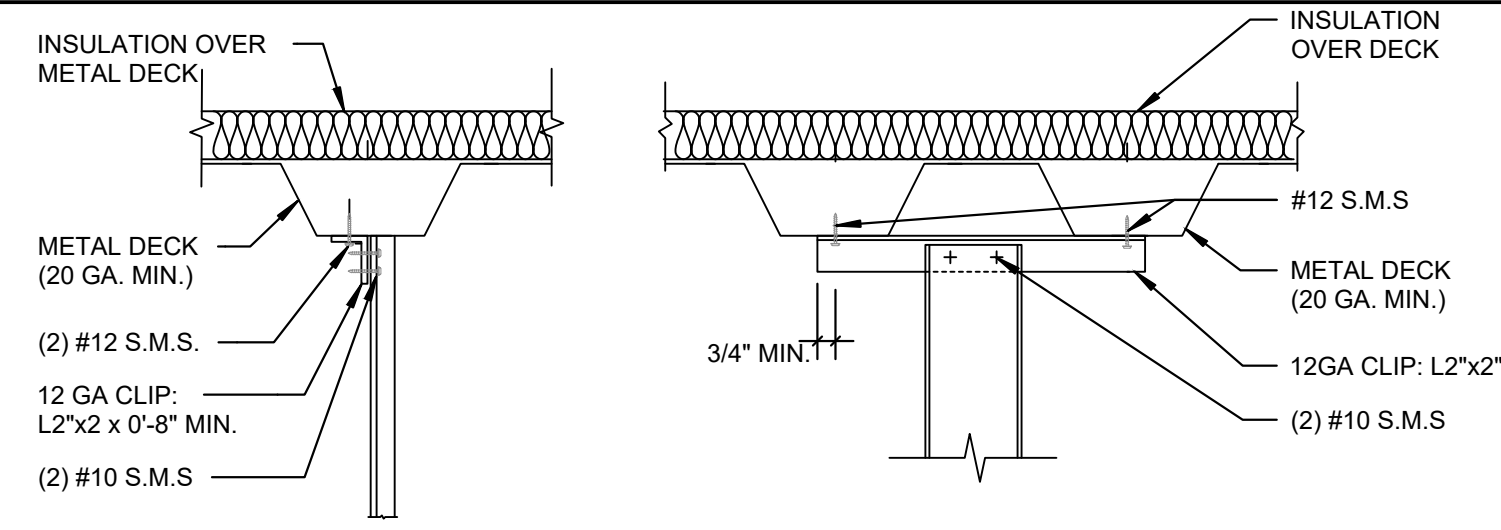


**EMT STRUT: OPTION 1**



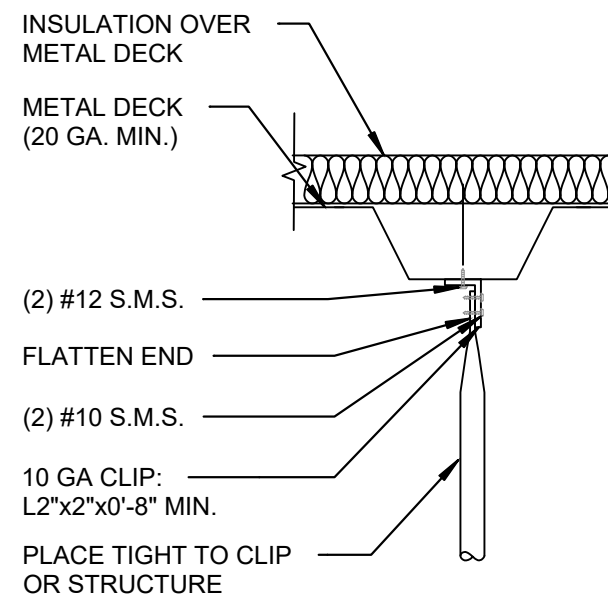
**EMT STRUT: OPTION 2**

[DP TO COORDINATE WITH THE PRODUCT EVALUATION REPORT TO SPECIFY A FASTENER TYPE AND DIAMETER APPROPRIATE FOR ALL THICKNESSES OF STEEL USED ON THE PROJECT.]

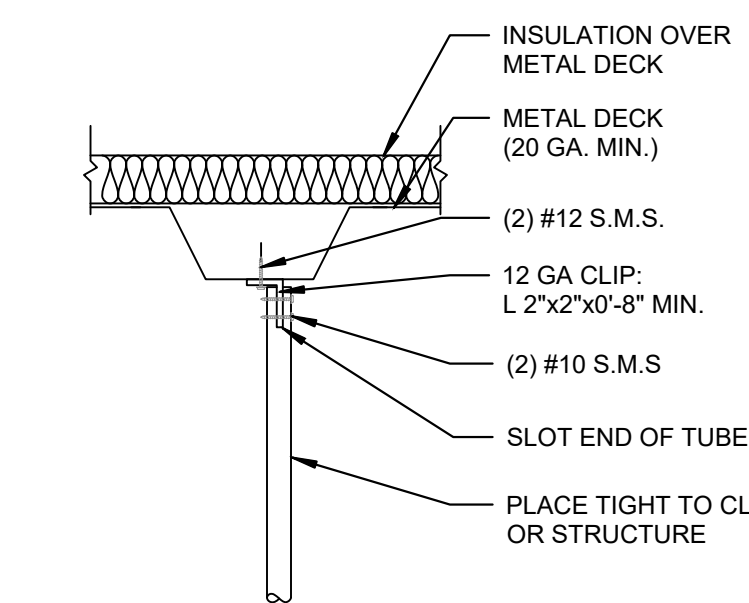


**CHANNEL STRUT: OPTION 1**

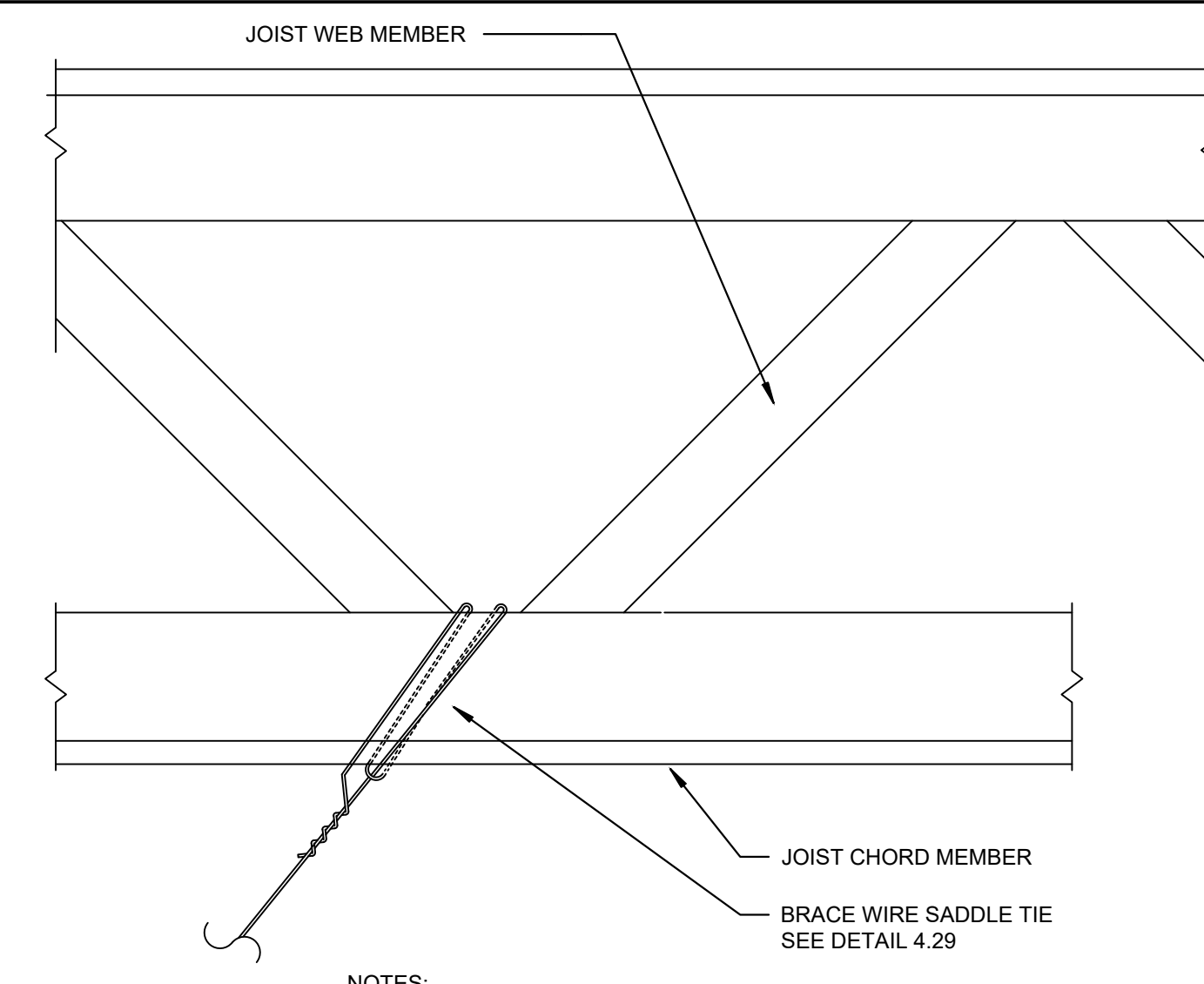
**CHANNEL STRUT: OPTION 2**



**EMT STRUT: OPTION 1**



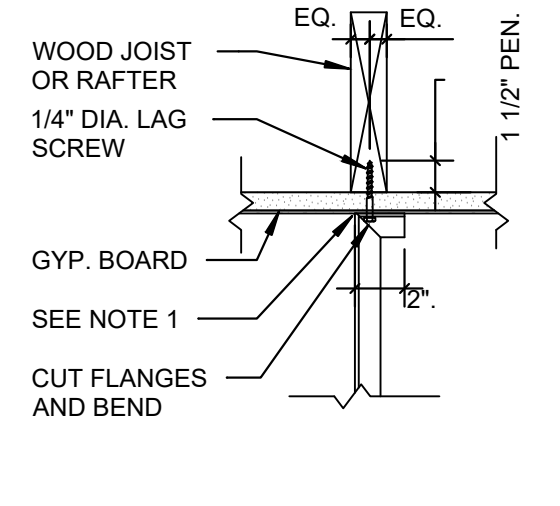
**EMT STRUT: OPTION 2**



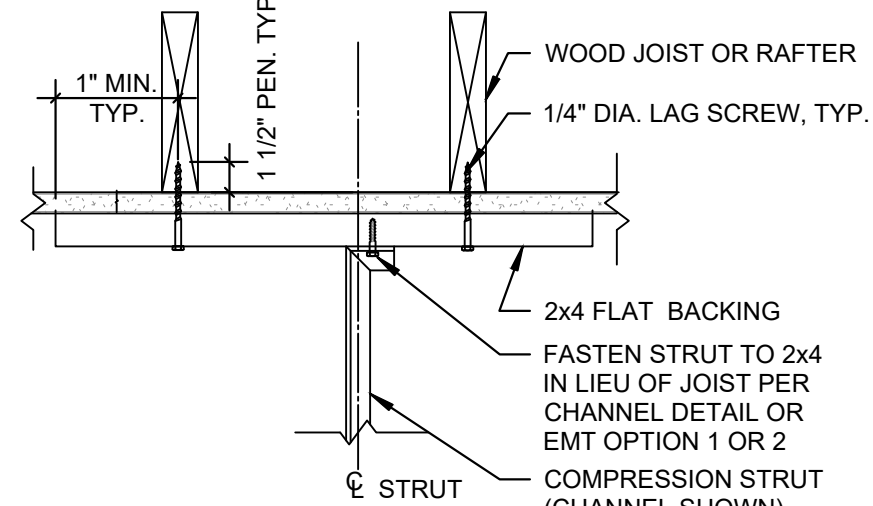
- NOTES:  
 1. BRACE WIRE SHALL ALIGN PARALLEL WITH THE TRUSS BOTTOM CHORD.  
 2. BRACE WIRES PERPENDICULAR TO THE TRUSS SHALL BE ATTACHED TO THE HORIZONTAL LEG OF THE TOP CHORD ANGLE PER DETAIL 4.33.  
 3. BRACE WIRES PARALLEL TO THE TRUSS MAY BE ATTACHED TO THE BOTTOM CHORD PER DETAIL 4.33 AT THE CONTRACTOR'S OPTION.

**5.40 STRUT CONNECTION TO STRUCTURAL STEEL**

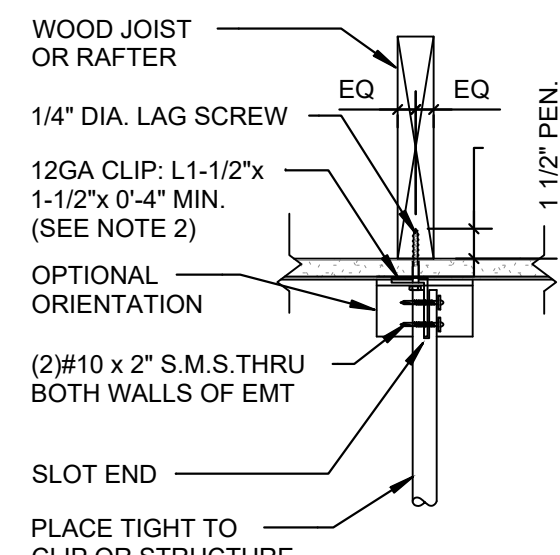
SCALE: N.T.S.



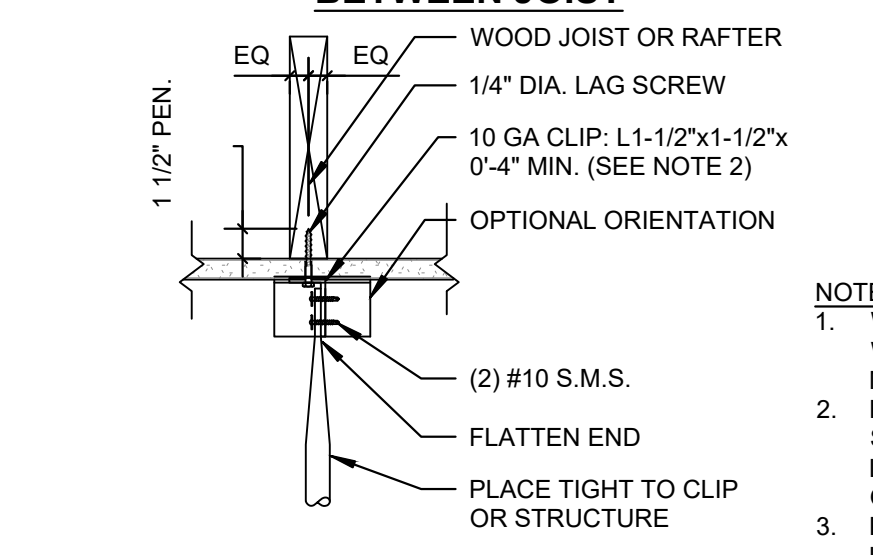
**CHANNEL STRUT**



**CHANNEL OR EMT STRUT: BETWEEN JOIST**



**EMT STRUT: OPTION 1**

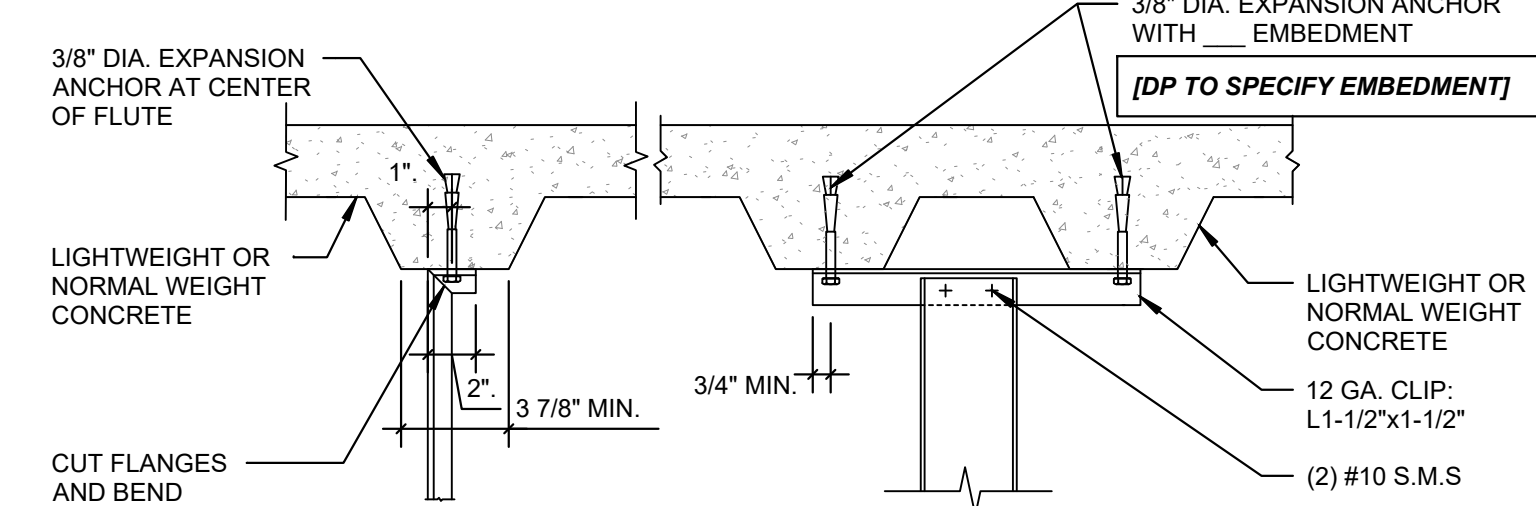


**EMT STRUT: OPTION 2**

- NOTES:  
 1. WEB OF CHANNEL TO BEAR WITHIN WIDTH OF THE WOOD MEMBER.  
 2. FOR ANGLE ORIENTED IN THE STANDARD POSITION, VERTICAL LEG TO FALL WITHIN THE WIDTH OF THE WOOD MEMBER.  
 3. PEN. = MINIMUM PENETRATION OF LAG SCREW THREADS INTO THE WOOD MEMBER.  
 4. NO. 14 WOOD SCREW MAY BE USED IN LIEU OF 1/4" LAG SCREW.

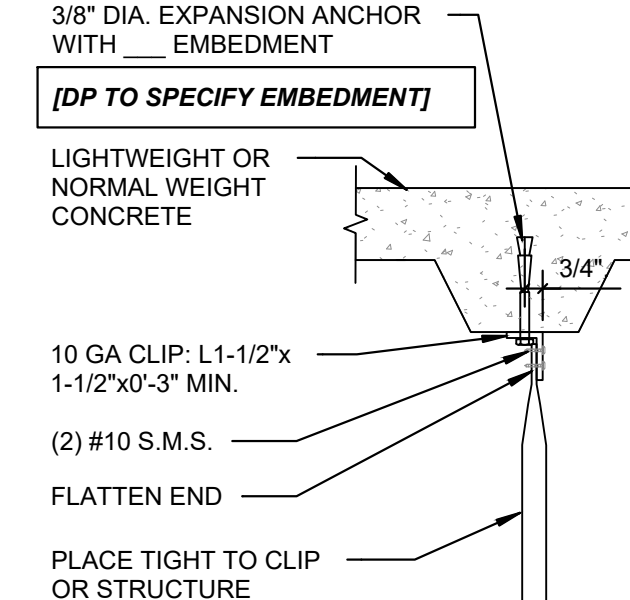
**5.20 STRUT CONNECTION TO BARE METAL DECK**

SCALE: N.T.S.

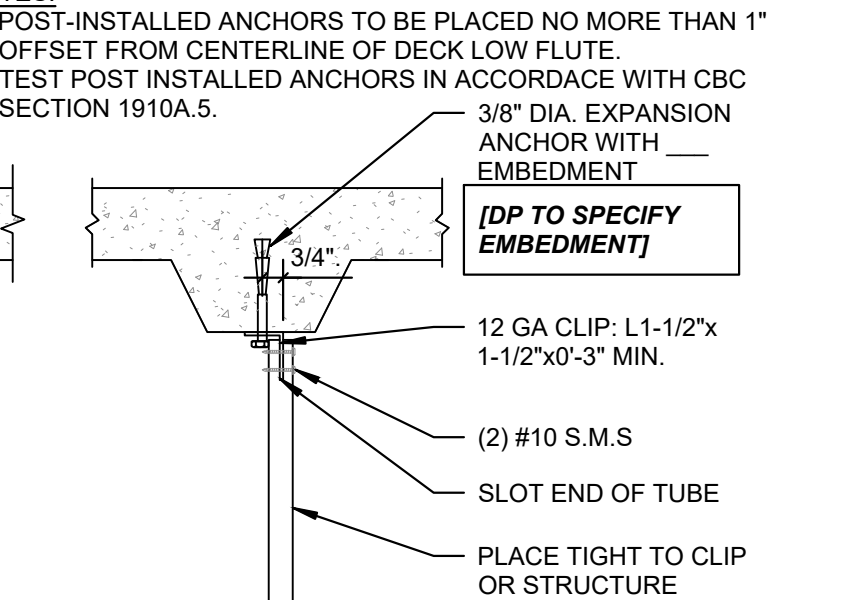


**CHANNEL STRUT: OPTION 1**

**CHANNEL STRUT: OPTION 2**



**EMT STRUT: OPTION 1**

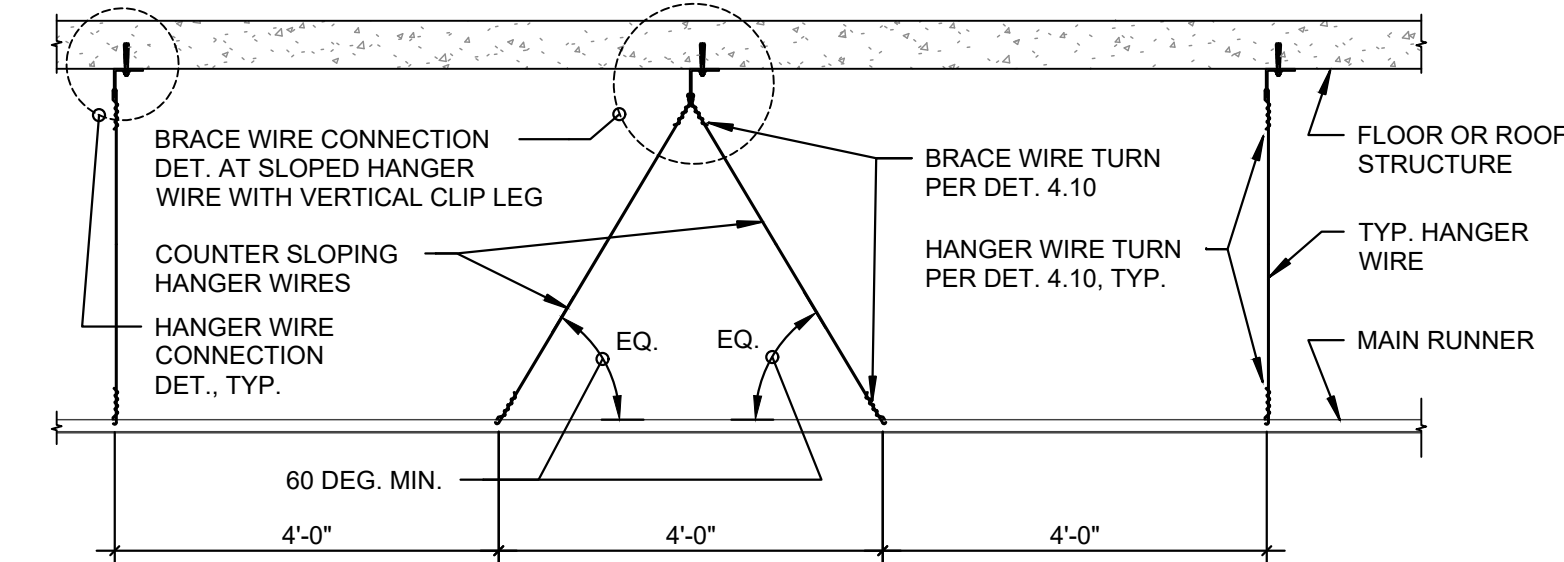


**EMT STRUT: OPTION 2**

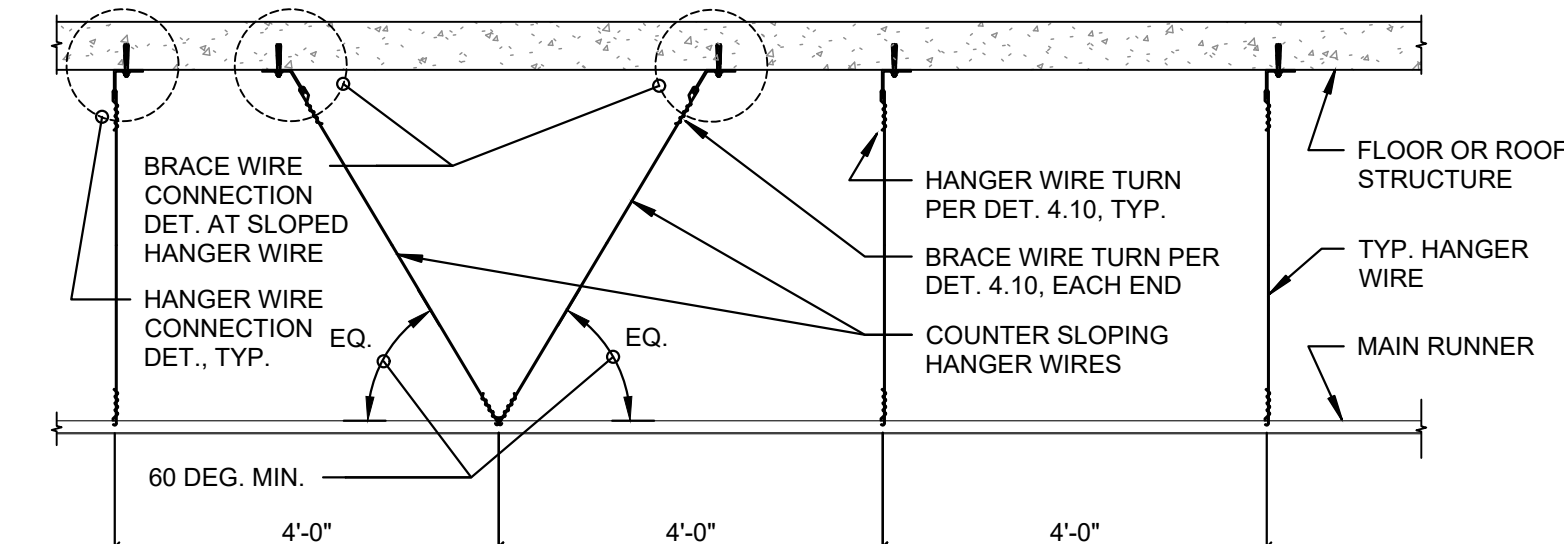
- NOTES:  
 1. POST-INSTALLED ANCHORS TO BE PLACED NO MORE THAN 1" OFFSET FROM CENTERLINE OF DECK LOW FLUTE.  
 2. TEST POST INSTALLED ANCHORS IN ACCORDANCE WITH CBC SECTION 1910A.5.

**4.39 BRACE WIRE CONNECTION TO OPEN WEB STEEL JOIST**

SCALE: N.T.S.



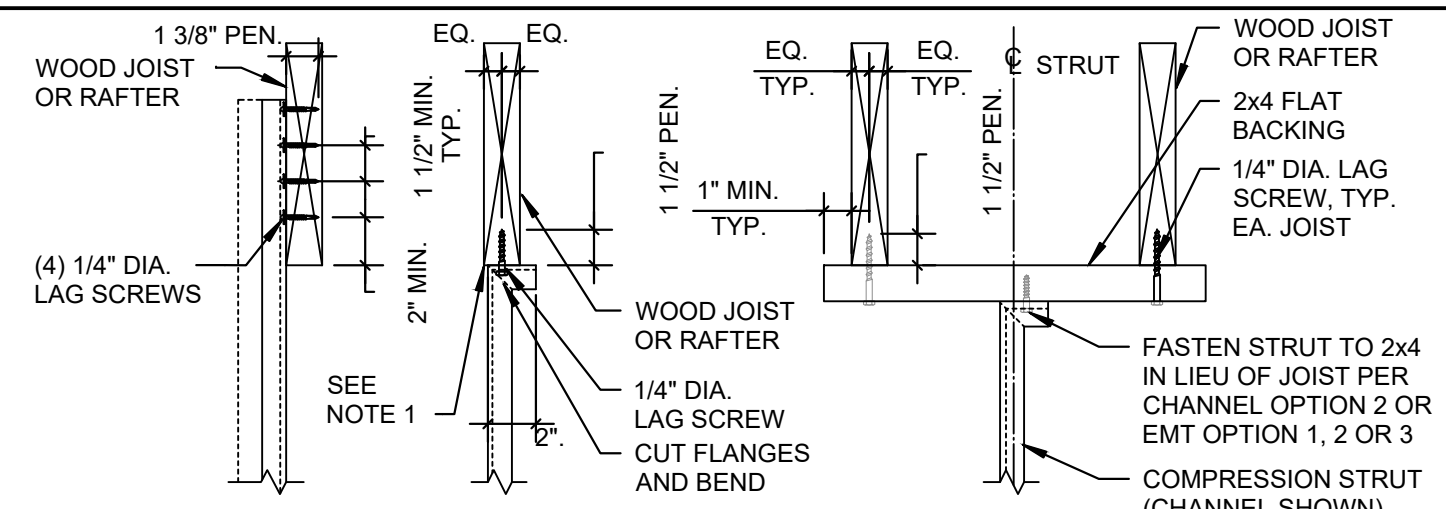
**METHOD 1: COMMON POINT AT STRUCTURE**



**METHOD 2: COMMON POINT AT CEILING**

**5.50 STRUT CONNECTION TO SAWN TIMBER WITH GYPSUM BOARD**

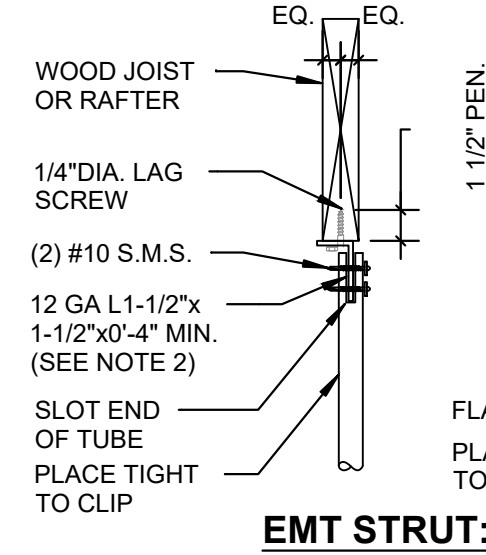
SCALE: N.T.S.



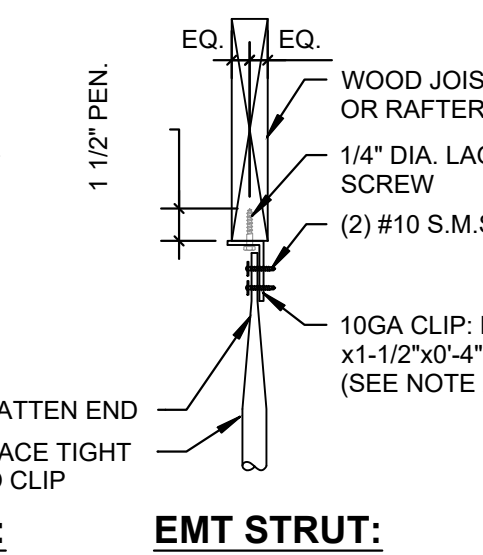
**CHANNEL STRUT: OPTION 1**

**CHANNEL STRUT: OPTION 2**

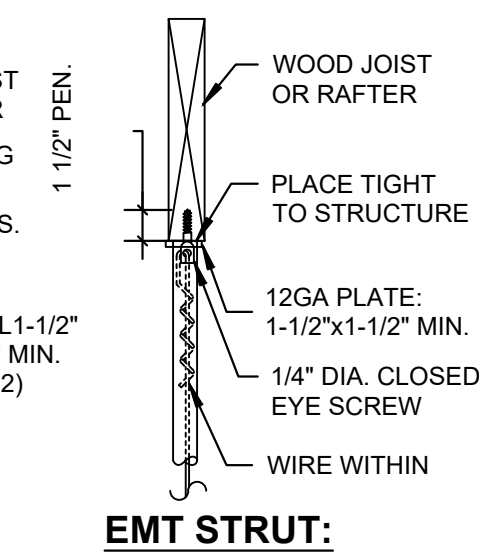
**CHANNEL OR EMT STRUT: BETWEEN JOIST**



**EMT STRUT: OPTION 1**



**EMT STRUT: OPTION 2**

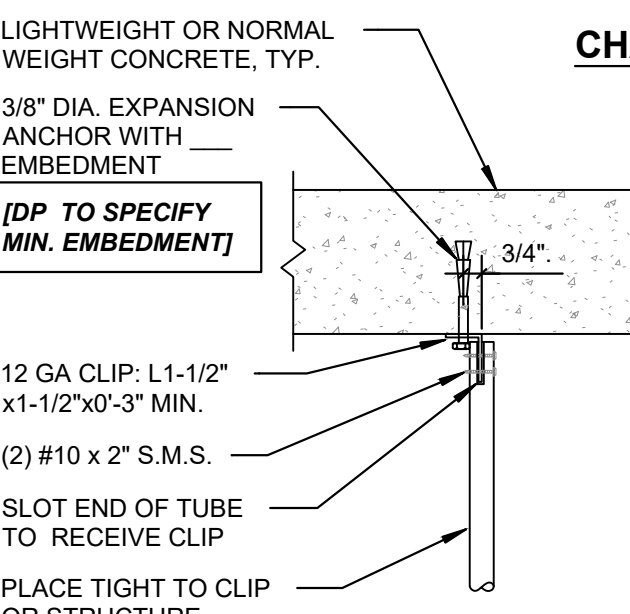
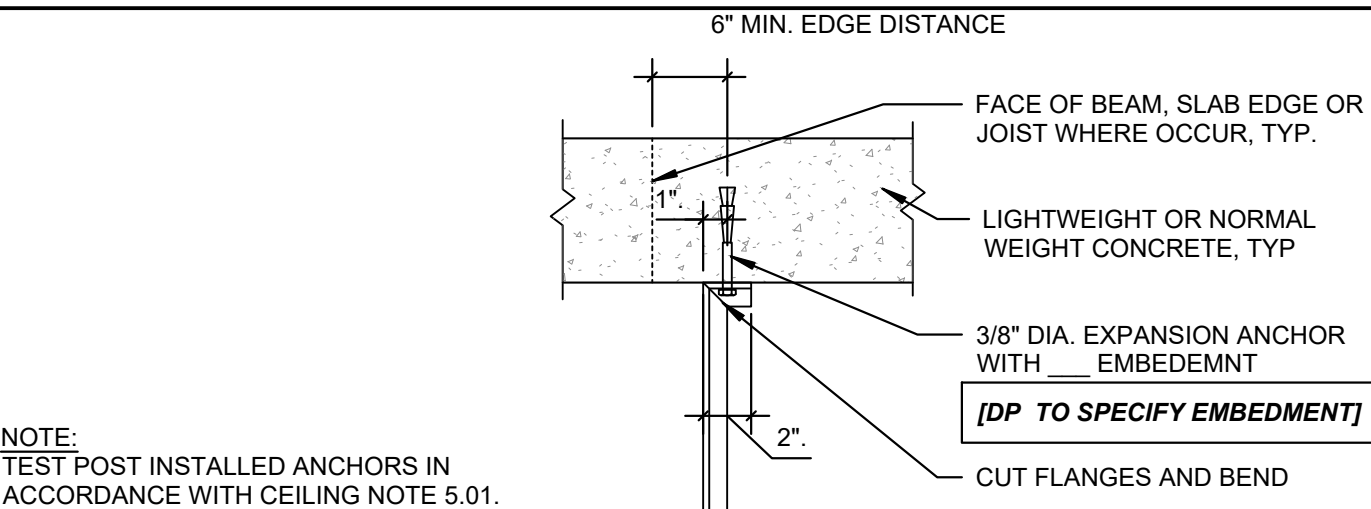


**EMT STRUT: OPTION 3**

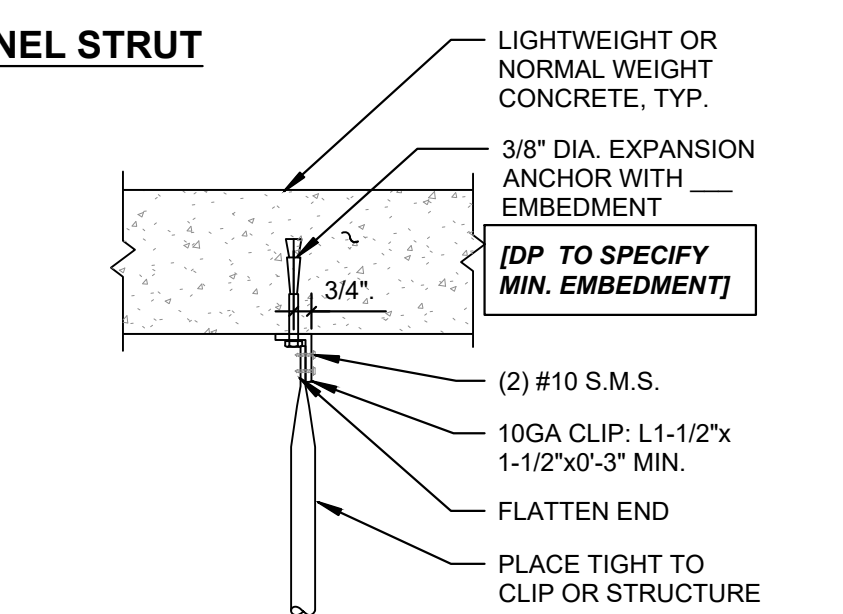
- NOTES:  
 1. WEB OF CHANNEL TO BEAR WITHIN WIDTH OF WOOD MEMBER.  
 2. VERTICAL LEG OF MEMBER TO FALL WITHIN THE WIDTH OF THE WOOD MEMBER.  
 3. SEE DETAIL 5.50 FOR ADDITIONAL INFORMATION.  
 4. PEN. = MINIMUM PENETRATION OF LAG SCREW THREADS INTO THE WOOD MEMBER.  
 5. NO. 14 WOOD SCREW MAY BE USED IN LIEU OF 1/4" LAG SCREW.

**5.21 STRUT CONNECTION OVER METAL DECK**

SCALE: N.T.S.



**EMT STRUT: OPTION 1**



**EMT STRUT: OPTION 2**

NOTE:  
 TEST POST INSTALLED ANCHORS IN ACCORDANCE WITH CEILING NOTE 5.01.

**4.40 HANGER WIRE COUNTERSLOPING METHODS (REF. ASTM C363)**

SCALE: N.T.S.



STRUCTURAL SYSTEM OF FLOOR/ ROOF ABOVE SUSPENDED CEILING	APPLICABLE DETAIL
BARE METAL DECK	5.20
CONCRETE OVER METAL DECK	5.21
CONCRETE SLAB, BEAM, OR JOIST	5.30
STRUCTURAL STEEL	5.40
SAWN TIMBER WITH GYPSUM BOARD	5.50
SAWN TIMBER WITHOUT GYPSUM BOARD	5.51
WOOD I-JOIST	5.52

**5.51 STRUT CONNECTION TO SAWN TIMBER WITHOUT GYPSUM BOARD**

SCALE: N.T.S.



**CHANNEL STRUT: OPTION 1**



**CHANNEL OR EMT STRUT: BETWEEN JOIST**

**5.30 STRUT CONNECTION TO CONCRETE SLAB, BEAM, OR JOIST**

SCALE: N.T.S.



**EMT STRUT: OPTION 1**

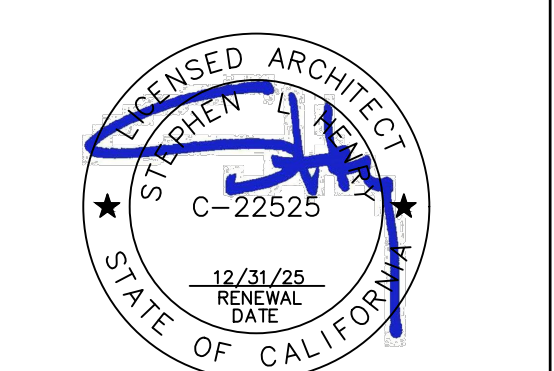


**EMT STRUT: OPTION 2**

**5.10 COMPRESSION STRUT CONNECTION TABLE**

SCALE: N.T.S.

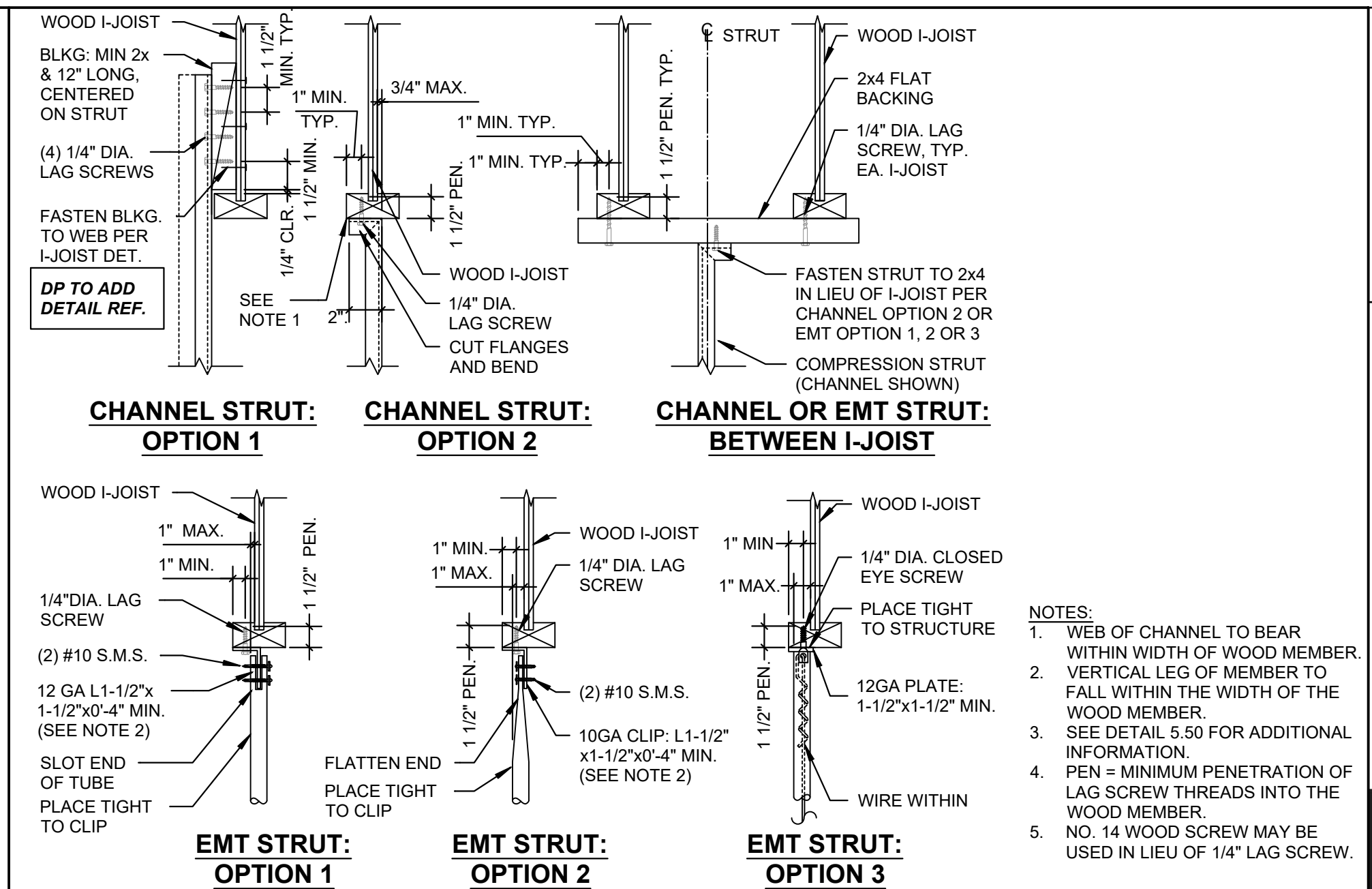
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 Sacramento, CA 95825  
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 Fax: 916.921.2212



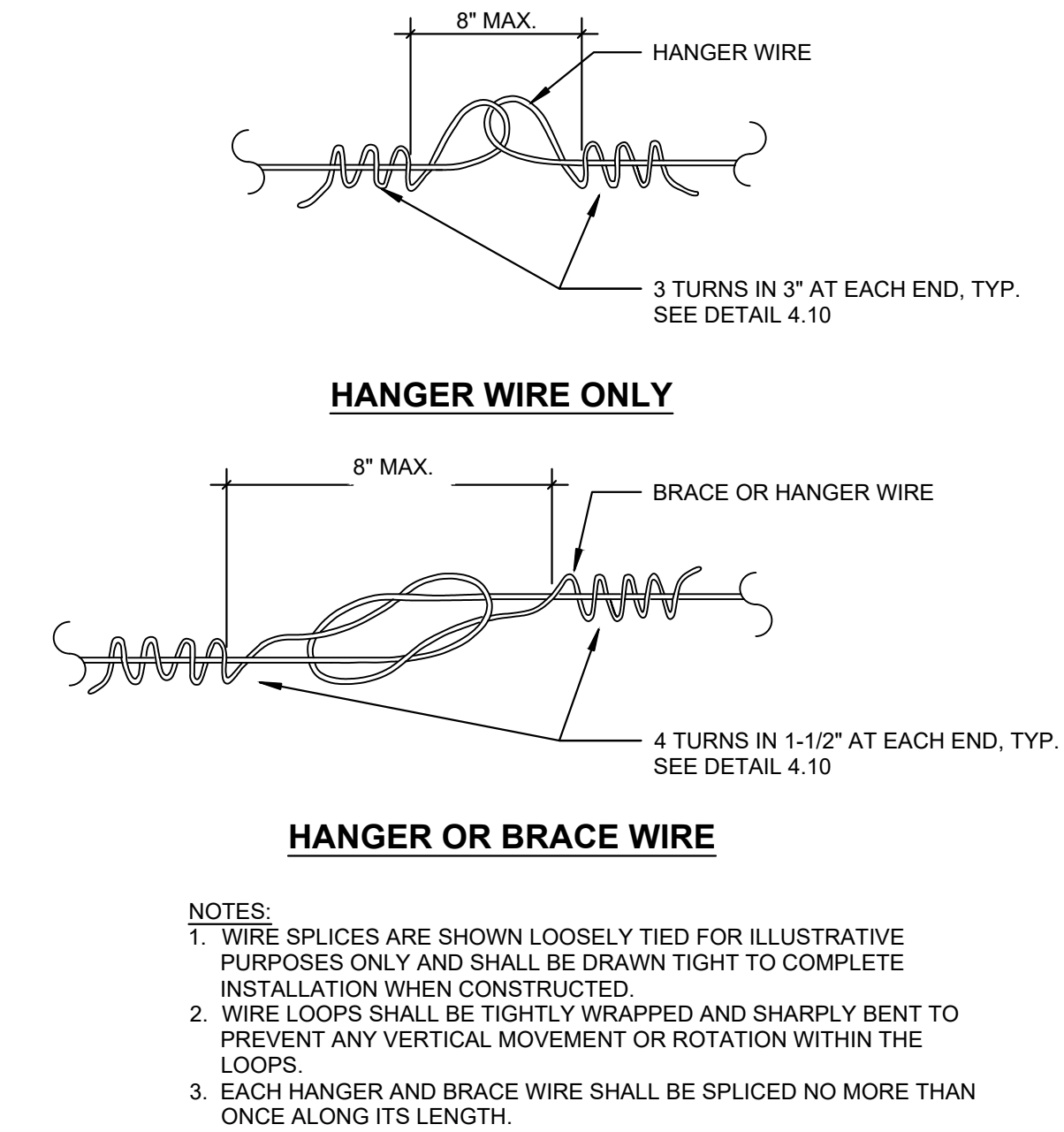
CULINARY LAB  
 VENTURE ACADEMY  
 SUSPENDED LAY-IN  
 PANEL CEILING DETAILS

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**A8.3.5**

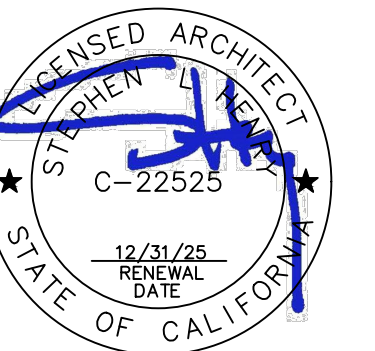


**5.52** STRUT CONNECTION TO I-JOIST  
SCALE: N.T.S.



**6.10** CEILING WIRE SPLICES  
SCALE: N.T.S.

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PANEL CEILING DETAILS

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**A8.3.6**

ROUGH CARPENTRY-NAILS:

- 1. ALL SPECIFIED NAILS SHALL CONFORM TO ASTM F1667 OR ICC ESR-1539. ALTERNATE FASTENERS MUST HAVE AN ICC EVALUATION REPORT AND MAY NOT BE USED UNLESS APPROVED IN WRITING BY RW CONSULTING ENGINEERS. ALL NAILS SHALL BE FULL ROUND HEAD WITH MINIMUM PROPERTIES AS FOLLOWS:

Table with 5 columns: SPECIFIED FASTENER, DIAMETER, LENGTH, PENETRATION, APPLICATION. Rows include 8d, 10d, 16d BOX, 16d SINKER, 16d COMMON.

ALL NAILS SHALL BE COMMON WIRE NAILS EXCEPT WHERE SPECIFICALLY NOTED

- 2. NAILS SHALL BE LOCATED AND SPACED TO PREVENT SPLITTING OF WOOD.
3. TOENAILS SHALL BE DRIVEN AT AN ANGLE OF APPROX 30° WITH THE MEMBER AND STARTED APPROX 1/2 THE LENGTH OF THE NAIL FROM THE MEMBER END.
4. NAILS USED IN HARDWARE SHALL BE AS SPECIFIED BY HARDWARE MFR.
5. MINIMUM NAILING SHALL BE PER CBC TABLE 2304.10.1 UNO (SEE TABLE ON THIS SHEET)
6. NAILS INSTALLED IN TREATED LUMBER SHALL HAVE CORROSION PROTECTION APPROPRIATE FOR THE TYPE OF CHEMICALS USED IN THE TREATMENT PROCESS.
7. SHEATHING NAILS SHALL BE DRIVEN SO THAT THEIR HEAD OR CROWN ARE FLUSH WITH THE SURFACE OF THE SHEATHING.

ROUGH CARPENTRY-HARDWARE:

- 1. ALL STEEL CONNECTORS, STRAPS, HANGERS, HARDWARE, ETC SHALL BE BY SIMPSON STRONG-TIE OR APPROVED EQUAL UNO. ATTACH WITH FASTENERS PER MFR TO ACHIEVE THE MAXIMUM TABULATED VALUE.
2. HARDWARE COMPONENTS AND FASTENERS INSTALLED AGAINST OR INTO TREATED LUMBER SHALL HAVE CORROSION PROTECTION APPROPRIATE FOR THE TYPE OF CHEMICALS USED IN THE TREATMENT PROCESS.
3. INSTALL ALL SPECIFIED FASTENERS BEFORE LOADING THE CONNECTION.
4. NAILS FOR HARDWARE SHALL NOT BE OVERDRIVEN OR DEFORM THE PART.
5. FASTENER SUBSTITUTIONS FOR HARDWARE ARE NOT ALLOWED UNLESS APPROVED FOR USE BY THE MFR AND THE HARDWARE CAPACITY IS NOT REDUCED.
6. WASHERS AT WOOD CONNECTIONS SHALL BE SQUARE PLATE STEEL OR MALLEABLE IRON WITH THE FOLLOWING MIN DIMENSIONS:

Table with 3 columns: FASTENER DIAMETER, MIN WASHER DIMENSIONS, MIN THICKNESS. Rows include 1/2", 5/8", 3/4", 7/8", 1".

ROUGH CARPENTRY-LAG SCREWS:

- 1. ALL SPECIFIED LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1.
2. LEAD HOLES FOR LAG SCREWS SHALL BE BORED TO AVOID SPLITTING OF WOOD MEMBERS.
3. LAG SCREWS SHALL BE INSTALLED BY TURNING OF THE LAG SCREW & NOT BY DRIVING OF A HAMMER.
4. SOAP OR OTHER LUBRICANT MAY BE USED ON THE LAG SCREW OR IN THE LEAD HOLE AS REQ'D TO PREVENT DAMAGE TO THE LAG SCREW.
5. LAG SCREWS INSTALLED IN TREATED LUMBER SHALL HAVE CORROSION PROTECTION APPROPRIATE FOR THE TYPE OF CHEMICALS USED IN THE TREATMENT PROCESS.
6. LAG SCREWS SHALL BE INSTALLED WITH A STANDARD CUT WASHER OR PLATE WASHER WITH CORROSION PROTECTION TO MATCH THE LAG SCREW.
7. ALL LAG SCREWS TO BE TIGHTENED DURING INSTALLATION & RE-TIGHTENED JUST PRIOR TO CLOSING IN.

STEEL REINFORCING NOTES:

- 1. ALL CONCRETE REINFORCING SHALL CONFORM TO THE 2022 CBC AND BE DETAILED, FABRICATED, AND PLACED PER ACI 318-19, AND PER THE LATEST EDITION OF ACI 315.
2. REINFORCEMENT SHALL BE DEFORMED BILLET STEEL PER ASTM A-615, GRADE 60.
3. ALL BENDING OF REINFORCEMENT PER ACI. FIELD BENDING OF REINFORCEMENT SHALL NOT BE PERMITTED.
4. REINFORCEMENT IN SLABS AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS OR CORNER BARS PROVIDED.
5. LAP SPICES OF CONCRETE REINFORCEMENT - NOT APPLICABLE FOR EPOXY COATED BARS.
6. ALL ADJACENT REINFORCING LAPS ARE TO BE STAGGERED A MINIMUM OF 5'-0".

- 7. REINFORCING SHALL BE PLACED WITH THE FOLLOWING MINIMUM CLEAR COVERAGE, UNO:
7.1 POURED AGAINST EXCAVATIONS/GROUND = 3"
7.2 POURED AGAINST FORMS, EXPOSED TO SOIL = 2"
7.3 CONCRETE EXPOSED TO WEATHER = 1 1/2"
7.4 SLABS ON GRADE - CENTER REINFORCING WITHIN SLAB DEPTH
8. REINFORCING SHALL BE TIED IN PLACE. TACK WELDING OF REINFORCING IS NOT PERMITTED.
9. WHERE REINFORCING IS NOT SPECIFIED, REFER TO ACI 318 FOR MINIMUM REINFORCEMENT.
10. WELDING OF REINFORCING IS NOT PERMITTED UNLESS SHOWN ON THESE DRAWINGS OR WITH PRIOR WRITTEN APPROVAL FROM THE SEOR.

ROUGH CARPENTRY-MATERIALS:

- 1. ALL SAWN LUMBER SHALL BE DOUG FIR UNO AND HAVE MOISTURE CONTENT NOT TO EXCEED 19% AT TIME OF INSTALLATION.
2. ALL COMPOSITE WOOD PRODUCTS (E LVL, LSL, GLULAM, ETC) SHALL BE PROTECTED FROM EXPOSURE AND EXCESSIVE MOISTURE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
3. ALL SAWN LUMBER TO BE SPECIES & GRADE AS NOTED BELOW:

Table with 2 columns: MEMBER, SPECIES & GRADE. Rows include 2x & 3x STUDS, 2x JOISTS, PLATES, 4x HEADERS, 4x COLUMNS, 6x & LARGER HEADERS, 6x & LARGER COLUMNS.

- 3.1 MATERIAL EXPOSED TO WEATHER OR IN CONTACT W/CONCRETE SHALL BE PRESSURE TREATED
3.2 OPTIONAL FOR EXPOSED 8X BEAMS & POSTS TO BE #1 AC IN LIEU OF TREATED DF
3.3 STUDS TALLER THAN 12'-0" SHALL BE #1 DF
4. PRESERVATIVE TREATED & PRESSURE TREATED LUMBER
4.1 SAWN LUMBER TO BE PROTECTED FROM EARTH, WEATHER, EARTH, & CONCRETE/CMU OR WOOD SHALL BE TREATED
4.2 PRESERVATIVE TREATMENT & CLEARANCES TO SOIL OR CONCRETE SHALL BE PER CBC 2303.1.9 & 2304.12.1.2
4.3 FIELD CUTS & HOLES IN TREATED LUMBER SHALL BE PROTECTED IN ACCORDANCE W/AWPA STANDARD M4
4.4 CONTRACTOR TO COORDINATE WITH TREATED WOOD SUPPLIER TO DETERMINE THE APPROPRIATE LEVEL OF CORROSION PROTECTION FOR HARDWARE & FASTENERS IN CONTACT WITH WOOD TREATED WITH CORROSIVE CHEMICALS.
5. ALL WOOD PANEL STRUCTURAL SHEATHING SHALL BE STAMPED W/APA TRADEMARK AND CONFORM TO MOST CURRENT EDITION OF PS-1. USE THICKNESS AND NAILING AS SHOWN ON DRAWINGS.
6. LAMINATED VENEER LUMBER (LVL) SHALL BE BY WEYERHAEUSER PER ICC-ES ESR-1387.

FOUNDATION NOTES:

- 1. FOUNDATIONS ARE DESIGNED WITH A MINIMUM PRESUMPTIVE SOIL BEARING PRESSURE OF 1,500 PSF PER 2022 CBC TABLE 1806.2.
2. FOOTINGS SHALL BEAR ON FIRM, DRY, UNDISTURBED NATIVE SOILS.
3. FOOTING DEPTHS INDICATED ON PLANS ARE MINIMUMS. AREAS OF OVER-EXCAVATION SHALL BE BACKFILLED WITH COMPACTED FILL PER THE SOILS REPORT OR WITH LEAN CONCRETE HAVING A MINIMUM 28-DAY STRENGTH OF 1,500 PSI.
4. FOOTINGS MAY BE OVER-EXCAVATED AT CONTRACTOR'S OPTION FOR PLACEMENT OF LEAN MIX CONCRETE TO FACILITATE THE REMOVAL OF DEBRIS AND STANDING WATER.
5. ALL FOOTINGS NOT FORMED SHALL BE POURED IN NEAT EXCAVATIONS.
6. SEOR SHALL BE NOTIFIED IMMEDIATELY WHERE JOB SITE CONDITIONS ARE DIFFERENT THAN THOSE SHOWN ON CONTRACT DRAWINGS.
7. SEOR SHALL BE NOTIFIED A MINIMUM OF 48-HOURS PRIOR TO THE PLACING OF CONCRETE SLABS AND FOUNDATIONS.

CONCRETE NOTES:

- 1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE 2022 CBC AND ACI 318-19.
2. ALL CONCRETE SHALL BE NORMAL WEIGHT PER ACI 301 AND HAVE PROPORTIONS OF CEMENT, COARSE AND FINE AGGREGATE, WATER AND ADMIXTURES TO PRODUCE THE PROPERTIES SPECIFIED FOR EACH CONCRETE MIX TYPE PER ACI 301 ON THE BASIS OF PREVIOUS FIELD EXPERIENCE AND SUPPORTED BY PREVIOUS TEST RECORDS.
3. STRUCTURAL CONCRETE SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3.1 CLASS A FOR USE AT FOUNDATIONS
3.2 CLASS B FOR USE AT FOUNDATION WALLS LESS THAN OR EQUAL TO 8" THICK
3.3 CLASS C FOR USE AT SLABS ON GRADE, ELEVATED SLABS AND WALLS AROUND PUMP AND SUMP PITS
PROVIDE ADMIXTURES PER PROJECT SPECIFICATIONS.
NOTE: CONCRETE TYPE CLASS B MAY BE USED IN LIEU OF CLASS A.

- 4. CONSTITUENTS OF STRUCTURAL CONCRETE SHALL MEET THE FOLLOWING REQUIREMENTS:
4.1 PORTLAND CEMENT PER ASTM C150 TYPE I OR II
4.2 COARSE AND FINE AGGREGATES PER ASTM C-33
4.3 REINFORCING PER ASTM A615 GRADE 60, UNO. ALL REINFORCING TO BE WELDED SHALL BE ASTM A706 GRADE 60
4.4 FLY ASH PER ASTM C-618 CLASS N OR F
4.5 ADMIXTURES PER PROJECT SPECIFICATIONS
5. ALL DEBRIS SHALL BE REMOVED FROM FORMS AND FOOTING EXCAVATIONS PRIOR TO POURING CONCRETE.
6. ALL REINFORCEMENT, ANCHOR BOLTS, AND OTHER EMBEDDED ITEMS SHALL BE SECURED IN POSITION SHOWN ON DRAWINGS PRIOR TO PLACING CONCRETE.
7. FREE-FALL OF CONCRETE SHALL BE LIMITED TO 4'-0" MAX.
8. CONCRETE SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION PER ACI 309 BY MEANS SUITABLE FOR ON SITE CONDITIONS.
9. CONSTRUCTION JOINTS SHALL HAVE ALL LOOSE MATERIAL REMOVED AND SHALL BE INTENTIONALLY ROUGHENED TO 1/2" AMPLITUDE PRIOR TO POURING CONCRETE.
10. ALL FORMWORK TO REMAIN IN PLACE FOR DURATION AS REQUIRED BY LATEST EDITION OF ACI 318.
11. REFER TO ACI RECOMMENDATIONS FOR PLACING AND CURING CONCRETE IN COLD AND HOT WEATHER CONDITIONS.
13. ALL SLABS SHALL BE FLAT AND LEVEL WITH A TOLERANCE OF 3/8" IN 10' FOR FLATNESS AND MINIMUM LOCAL VALUE F = 32 PER ASTM 1155.
14. CONDUITS AND PIPES EMBEDDED IN THE SLAB (OTHER THAN THOSE PASSING VERTICALLY THROUGH) SHALL NOT BE PERMITTED.
15. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED BY THE CONTRACTOR A MINIMUM OF 48 HOURS BEFORE PLACING CONCRETE (I-24 PART 1, 4-331).

GENERAL NOTES:

- 1. ALL NEW WORK SHALL CONFORM TO TITLE 24 2022 EDITIONS WITH AMENDMENTS AND ALL OTHER APPLICABLE CODES AND REGULATIONS.
2. THIS SET OF STRUCTURAL DRAWINGS IS APPLICABLE ONLY TO THE LISTED PROJECT AND SITE LOCATION.
3. NOTES ON THIS SHEET ARE TYPICAL AND SHALL APPLY UNLESS OTHERWISE NOTED OR SHOWN. TYPICAL DETAILS SHALL APPLY FOR ALL LIKE CONDITIONS UNLESS OTHERWISE NOTED OR DETAILED.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS, ELEVATIONS, EXISTING CONDITIONS, AND OTHER RELATED ITEMS.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFORM TO RELEVANT SECTIONS OF THE CALIFORNIA "CONSTRUCTION SAFETY ORDERS" AND ALL OSHA REQUIREMENTS.
6. STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE, AND DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION.

TESTS & INSPECTIONS:

- TESTS & INSPECTIONS SHALL BE PROVIDED BY A QUALIFIED TESTING AGENCY AS NOTED BELOW AND SHALL CONFORM TO THE REQUIREMENTS OF 2022 CBC, SECTION 1701
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS
4. VERIFY USE OF PROPER MATERIALS, DENSITIES & LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY

CONCRETE:

- 1. INSPECT REINFORCEMENT, INCLUDING PRE-STRESSING TENDONS & VERIFY PLACEMENT
2. INSPECT ANCHORS CAST IN CONCRETE
3. INSPECT POST-INSTALLED ANCHORS
4. VERIFY USE OF REQUIRED MIX DESIGN
5. PRIOR TO CONC PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, DETERMINE TEMP OF CONC
6. INSPECT CONC & SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES
7. VERIFY MAINTENANCE OF SPECIFIED CURING TEMP & TECHNIQUES
8. VERIFY IN-SITU CONC STRENGTH, PRIOR TO STRESSING OF TENDONS AND PRIOR TO REMOVAL OF FORMS FROM BEAMS AND SLABS
9. INSPECT FORMWORK FOR SHAPE, LOCATION, & DIMENSIONS OF CONCRETE MEMBERS BEING FORMED

STEEL CONSTRUCTION:

- QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR IN ACCORDANCE WITH AISC 360, CHAPTER N AS NOTED BLW. QUALITY ASSURANCE (QA) AS SPECIFIED IN AISC 360, CHAPTER N SHALL BE PROVIDED BY INDEPENDENT INSPECTION AGENCY AS NOTED BELOW:
WELDING
A. WELDING PROCEDURE SPECIFICATIONS (WPS)
B. MANUFACTURER CERT FOR WELDING
C. MATERIAL IDENTIFICATION (TYPE/GRADE)
D. WELDER IDENTIFICATION SYSTEM
E. FIT-UP GROOVE WELDS (INCLUDING JOINT GEOMETRY)
F. CONFIGURATION & FINISH OF ACCESS HOLES
G. FIT-UP OF FILLET WELDS
H. CHECK WELDING EQUIPMENT
I. USE OF QUALIFIED WELDERS
J. CONTROL & HANDLING OF WELDED CONSUMABLES
K. NO WELDING OV/CRACKED TACK WELDS
L. ENVIRONMENTAL CONDITIONS
M. WELDING TECHNIQUES
N. WELDS CLEANED
O. SIZE, LENGTH, & LOCATION OF WELDS
P. WELDS MEET VISUAL ACCEPTANCE CRITERIA
Q. ARC STRIKES
R. K AREA
S. BACKING REMOVED & WELD TABS REMOVED (IF REQUIRED)
T. REPAIR ACTIVITIES
U. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER

NOTE: ALL GROOVE WELDS NOTED AS COMPLETE JOINT PENETRATION (CJP) ARE TO PERFORMED UNDER CONTINUOUS OBSERVATION BY A CERTIFIED SPECIAL INSPECTOR AND ALL CJP WELDS ARE TO BE VERIFIED THROUGH NON-DESTRUCTIVE MEANS BY THE TESTING LAB OR RECORDED.

QUALITY ASSURANCE INSPECTIONS, EXCEPT NON-DESTRUCTIVE TESTING, MAY BE WAIVED WHEN THE WORK IS PERFORMED IN A FABRICATING SHOP OR BY AN ERECTOR APPROVED BY THE AUTHORITY HAVING JURISDICTION TO PERFORM THE WORK W/O QA.

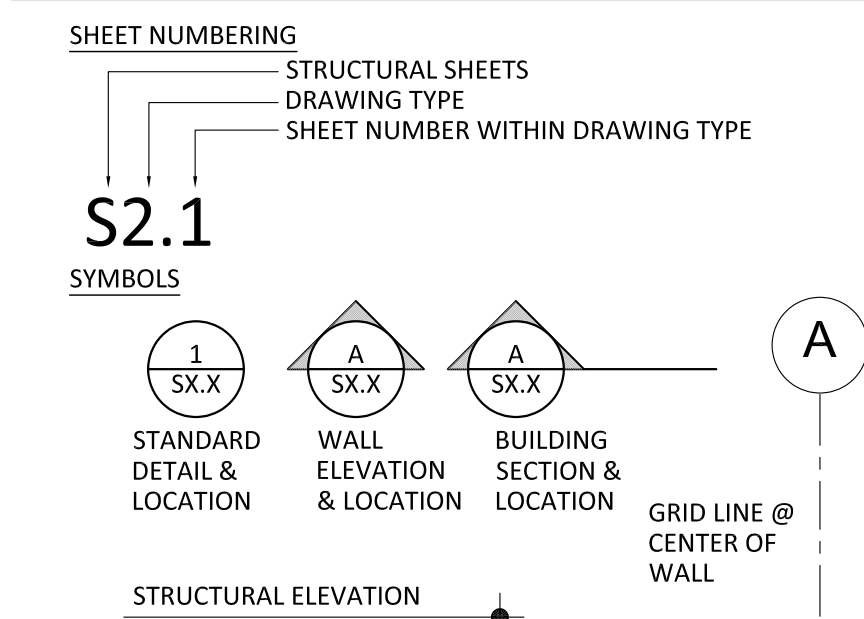
STRUCTURAL SHEET INDEX:

- S0.1 TYPICAL STRUCTURAL NOTES
S0.2 TYPICAL STRUCTURAL NOTES & DETAILS
S2.1 ROOF FRAMING PLAN & PARTIAL FLOOR PLAN
S3.1 ENLARGED PARTIAL FOUNDATION PLAN & ENLARGED PARTIAL ROOF FRAMING PLAN
S3.2 ENLARGED EQUIPMENT FRAMING PLANS
S4.1 DETAILS
S4.2 KITCHEN HOOD BRACING PLAN & ELEVATIONS

ABBREVIATIONS:

- @ AT
AB ANCHOR BOLT
ACI AMERICAN CONCRETE INSTITUTE
AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI AMERICAN IRON AND STEEL INSTITUTE
APA AMERICAN PLYWOOD ASSOCIATION
ARCH ARCHITECT/ARCHITECTURAL
ASTM AMERICAN SOCIETY OF TESTING AND MATERIALS
AWS AMERICAN WELDING SOCIETY
BLKG BLOCKING
BLW BELOW
BTWN BETWEEN
B.O. BOTTOM OF
BOT BOTTOM
CBC CALIFORNIA BUILDING CODE
cc CENTER TO CENTER
CJ COLD JOINT
CLG CEILING
CMU CONCRETE MASONRY UNIT
ø DIAMETER
DWGS DRAWINGS
ES EDGE SCREW w/SPACING PER SHEAR WALL DIAGRAMS
F.O. FACE OF FRAMING
HD HOLD/DOWN
HSS HOLLOW STRUCTURAL SECTION
L STEEL ANGLE
MAX MAXIMUM
MC MISCELLANEOUS CHANNEL
MIN MINIMUM
NTS NOT TO SCALE
# NUMBER OR POUNDS
OH OPPOSITE HAND
OVER OVER
PAF POWDER-ACTUATED FASTENER
PJ PANEL JOINT
SEOR STRUCTURAL ENGINEER OF RECORD
SMS SHEET METAL SCREW
T & B TOP AND BOTTOM
THRU THROUGH
T.O. TOP OF
TYP TYPICAL
UNO UNLESS NOTED OTHERWISE
w/ WITH

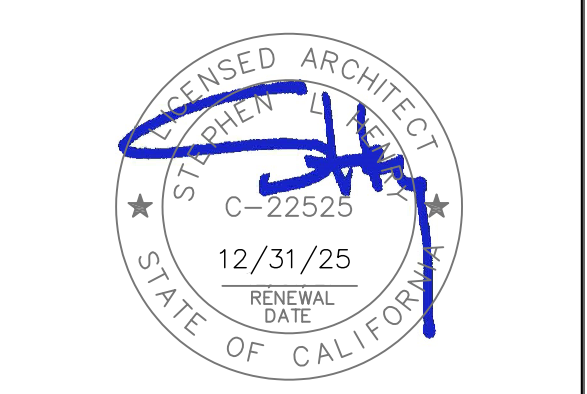
DRAWING STANDARDS:



DESIGN CRITERIA:

- 1. PROJECT ADDRESS: 2829 TRANSWORLD DRIVE STOCKTON, CA 95206
2. BUILDING CODE: 2022 CALIFORNIA BUILDING CODE
3. GRAVITY LOADS: (ESTIMATES OF AS-BUILT CONDITIONS)
BUILDING ROOFS
ROOF LIVE LOAD = 20 PSF (REDUCIBLE)
ROOF DEAD LOAD = 20 PSF
WALL WEIGHTS
EXTERIOR WALLS = 15 PSF
INTERIOR WALLS = 10 PSF
4. LATERAL LOADS- RISK CATEGORY III
WIND LOADS (ASCE 7-16)
BASIC WIND SPEED 100 MPH (77 MPH ASD)
EXPOSURE C
BUILDING IS CONSIDERED "ENCLOSED"
PRESSURE COEFFICIENTS
INTERNAL PRESSURE COEFFICIENT, GCi = ± 0.18
TOPOGRAPHIC FACTOR, Kzt = 1.00
WIND DIRECTIONALITY FACTOR, Kd = 0.85
VELOCITY PRESSURES
q(0'-15') = 11.0 PSF (ASD)
q(15'-20') = 11.6 PSF (ASD)
q(20'-25') = 12.1 PSF (ASD)
SEISMIC LOADS (ASCE 7-16)
SITE CLASS D
SEISMIC DESIGN CATEGORY D
IMPORTANCE FACTOR 1.25
Ss = 0.710 Sd = 0.279
Fv = 1.232 Fd = 2.042
Sm = 0.875 Sm = 0.570
Ss = 0.583 Sd = 0.380

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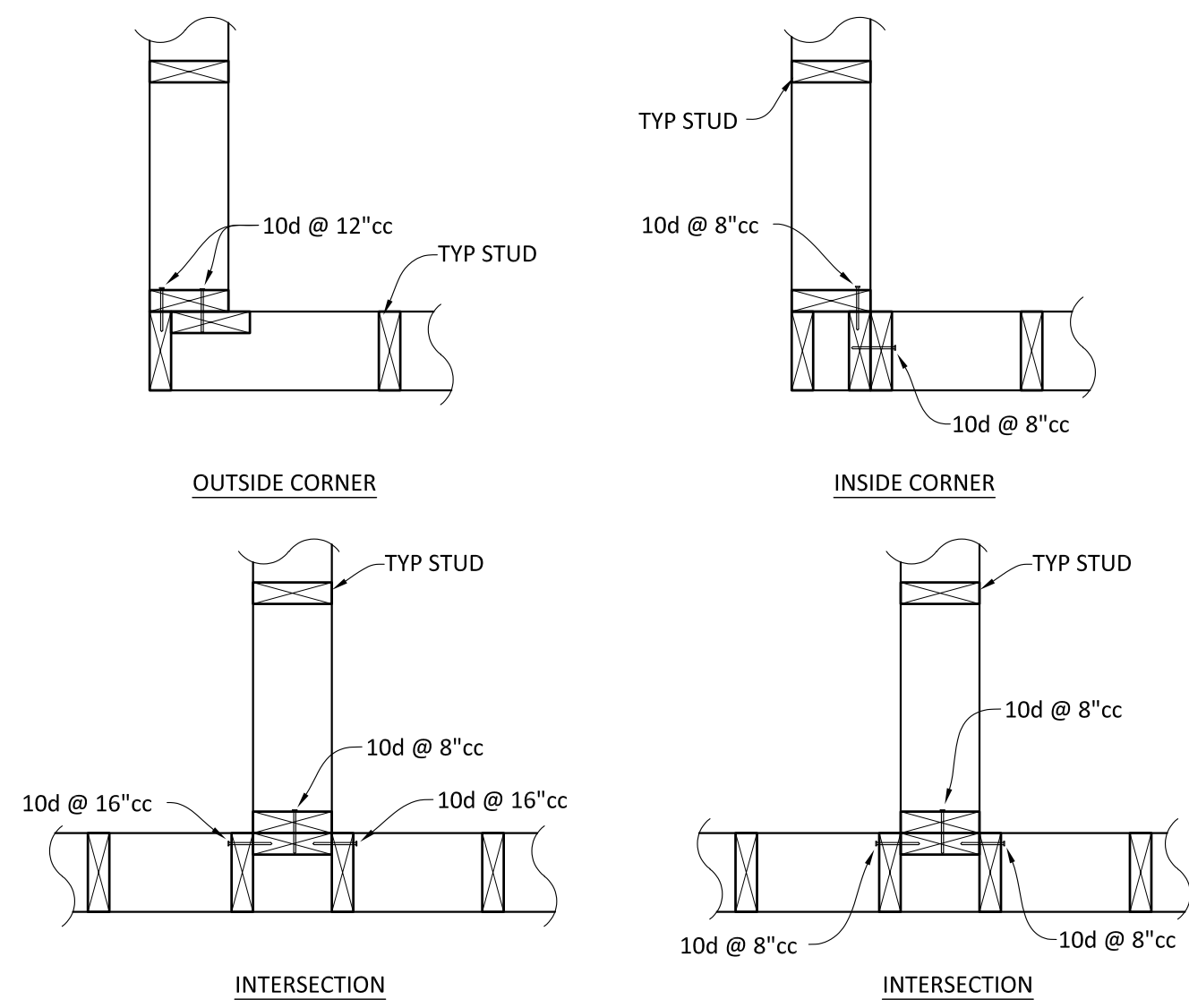
CULINARY LAB VENTURE ACADEMY
TYPICAL STRUCTURAL NOTES

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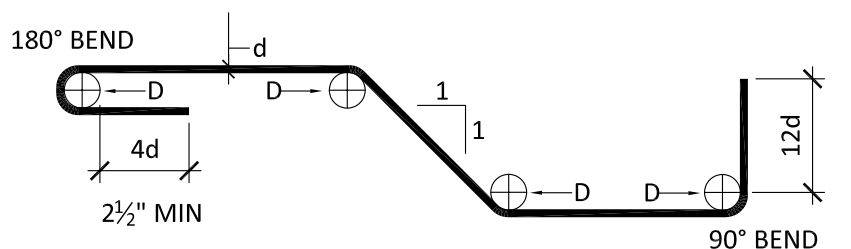


Table with 3 columns: PROJECT NO., REVISIONS, BY. Rows include project number 23-34-026, date 4/10/2024, and drawing details.

SHEET NO.
S0.1



**WALL INTERSECTIONS** 4



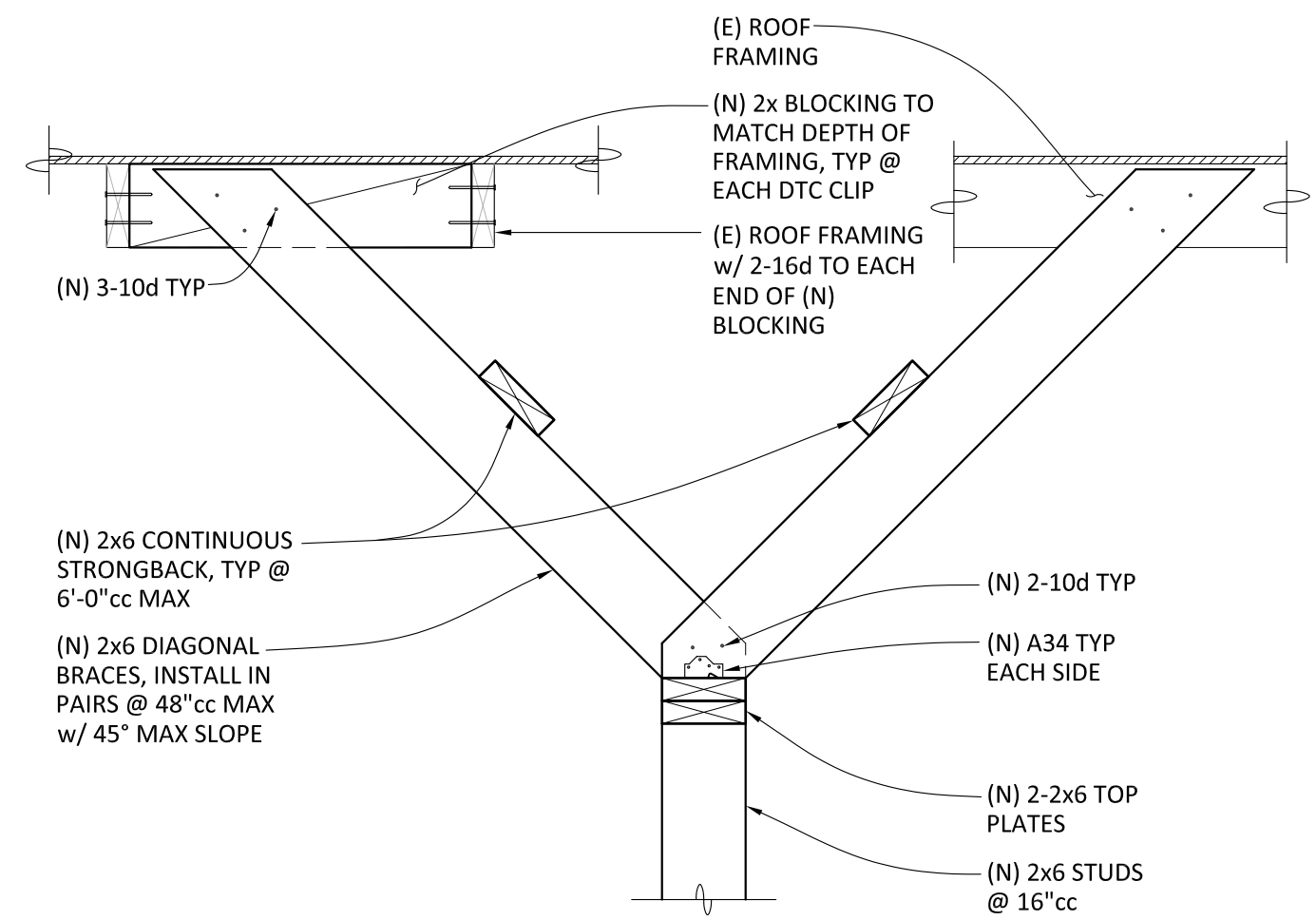
D = 6d FOR #3 THRU #8 BARS  
D = 8d FOR #9 THRU #11 BARS

REINFORCING BARS & STANDARD HOOKS

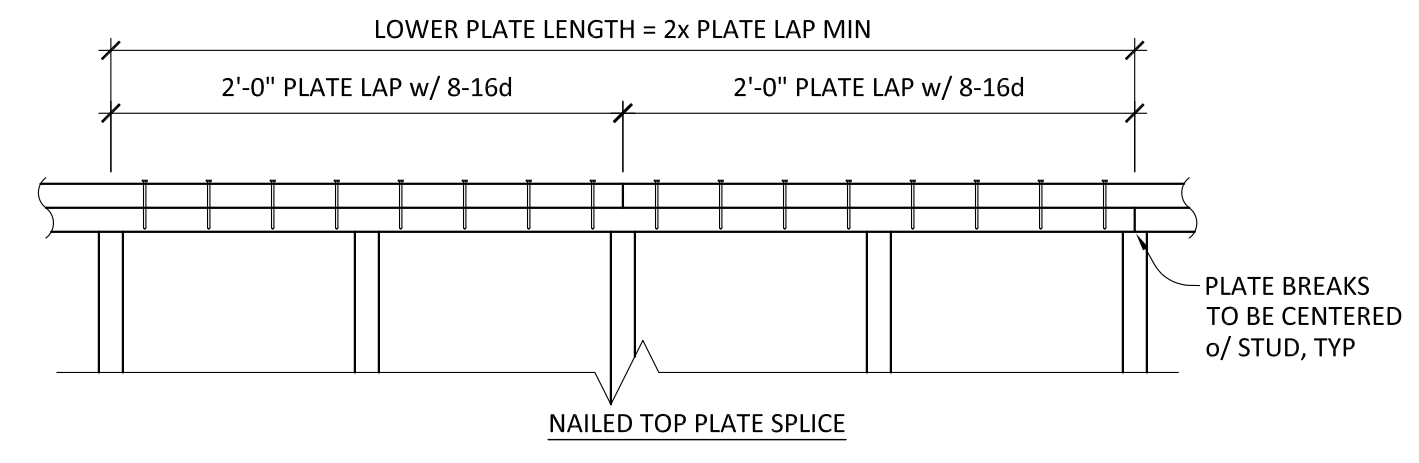
**NOTES:**

- THE ABOVE DETAILS ARE PROVIDED TO SPECIFY STAND REBAR BENDS AND BEND EXTENSIONS, TYP UNO.
- ALL REBAR PLACEMENT IS TO BE AS SHOWN IN PROJECT DETAILS. SEE 'CONCRETE REINFORCING NOTES' ON S0.1.
- NOT ALL CONDITIONS SHOWN ABOVE WILL APPLY TO THIS PROJECT.

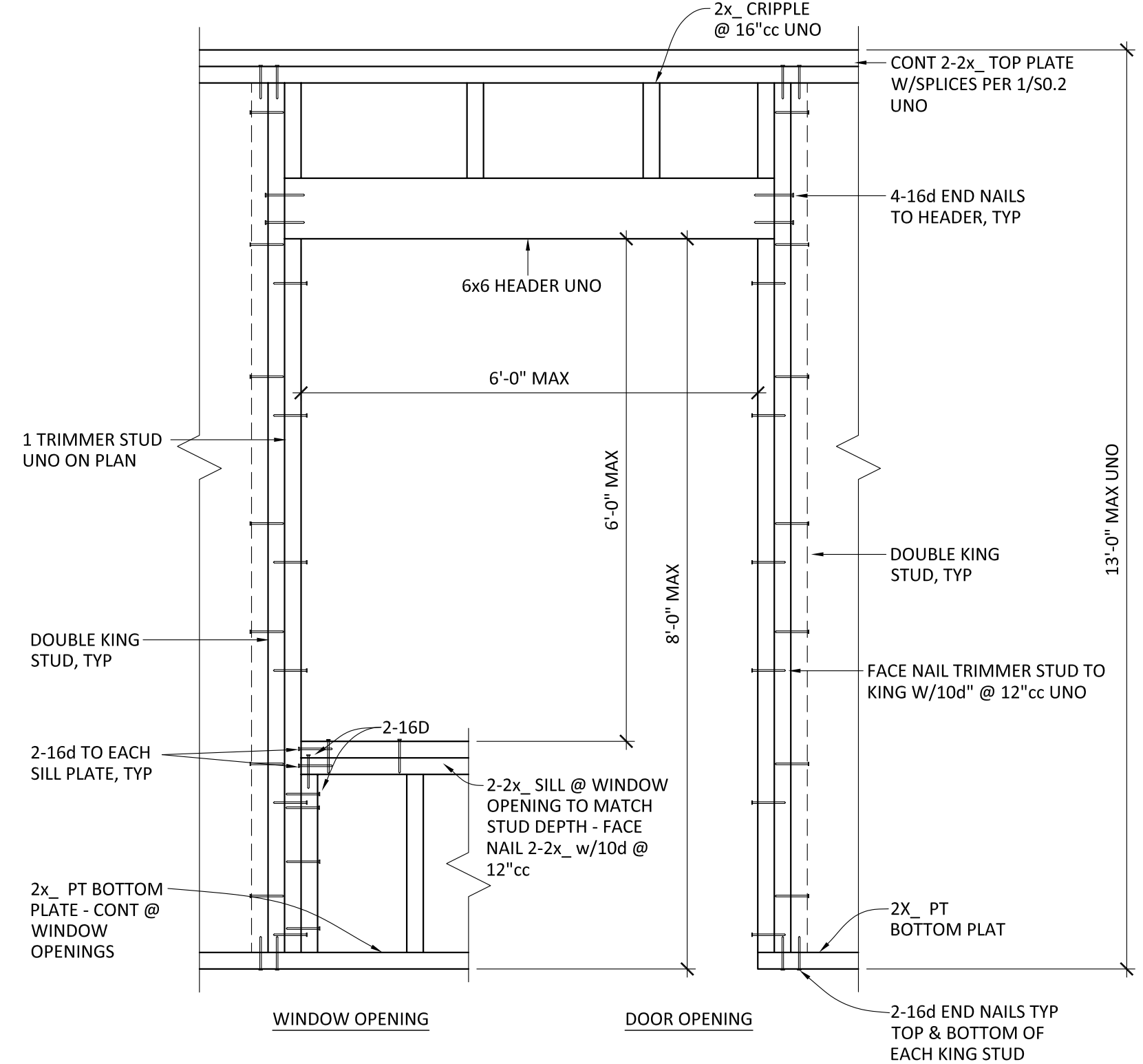
**STANDARD REBAR BENDS** 5



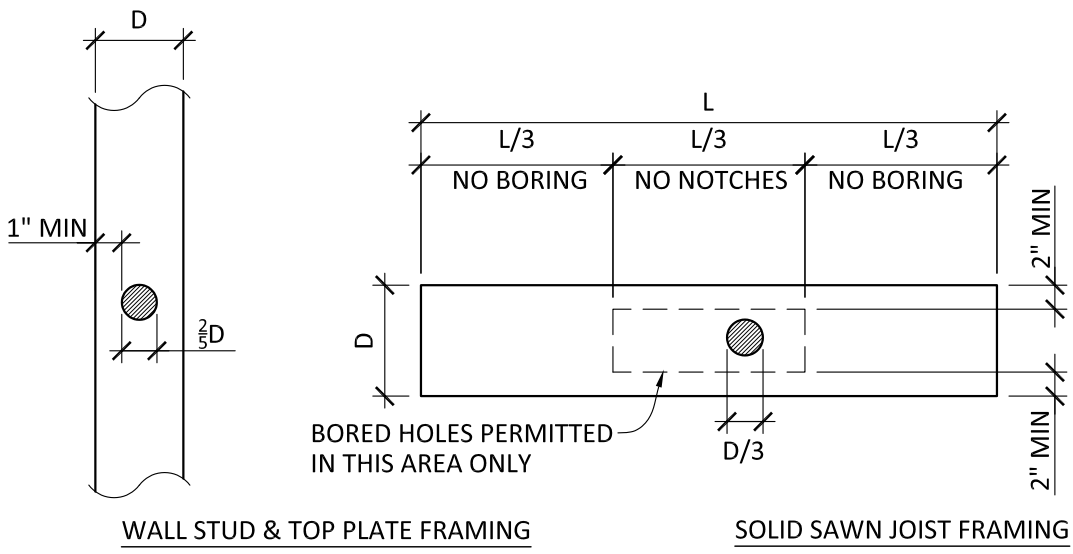
**WALL BRACING** 6



**TOP PLATE SPLICE** 1



**INTERIOR WALL OPENING** 2



**NOTES:**

- HOLES IN WALL STUDS MAY BE BORED UP TO 3/8" DIAMETER PROVIDED STUDS ARE DOUBLED & HOLES ARE CENTERED IN STUD WIDTH.
- BORING SHOWN SHALL NOT BE USED AT BEAMS OR POSTS. CONSULT AOR.
- NOTCHING IS NOT PERMITTED.
- CLEAR SPCG BTWN BORED HOLES SHALL BE 12" MIN.
- HOLES IN TOP PLATES SHALL NOT BE LOCATED WITHIN TOP PLATE SPLICE ZONE
- WHERE TOP PLATE PENETRATIONS EXCEED LIMITS SHOWN, PROVIDE CTS219 EACH SIDE OF BOTH TOP PLATES & ATTACH W/SD #9x1 1/2" SCREWS

THIS DETAIL APPLIES TO INTERIOR NON-STRUCTURAL WALLS AND CEILING JOISTS ONLY. FOR ALL OTHER CONDITIONS, CONTACT SEOR PRIOR TO PROCEEDING WITH BORING ANY HOLES

**BORING** 3

**POST INSTALLED ANCHOR NOTES:**

- ALL POST INSTALLED ANCHORS ARE TO BE INSTALLED PER MANUFACTURER FOR EACH ANCHOR AND PER THE ICC REPORTS LISTED BELOW.
- ALL POST-INSTALLED ANCHORS ARE TO BE CAREFULLY INSTALLED SO AS TO NOT DISTURB OR DAMAGE THE STEEL REINFORCING IN ANY WAY. ANCHORS MAY NOT BE INSTALLED UNTIL CONCRETE OR GROUT HAS REACHED A MINIMUM AGE OF 28 DAYS.
- ALL HOLES FOR DRILLED-IN ANCHORS SHALL BE COMPLETELY DRY AND WELL CLEANED WITH A BOTTLE BRUSH AND COMPRESSED AIR PRIOR TO INSTALLING THE ANCHORS.
- ALL DRILLED-IN ANCHORS SHALL BE TESTED PER CHAPTER 17 OF THE 2022 CBC. ALL TESTING SHALL BE DONE BY A CERTIFIED TESTING LABORATORY AND SHALL BE PERFORMED IN THE PRESENCE OF A SPECIAL INSPECTOR.
- POST-INSTALLED ANCHORS ARE TO BE AS FOLLOWS:
  - EXPANSION ANCHORS IN CONCRETE  
HILTI KB T22 PER ICC-ES ESR-4266
  - EPOXY ANCHORS IN CONCRETE  
HILTI HIT-HY 200 V3 PER ICC-ES ESR-4868
- POST-INSTALLED ANCHORS ARE TO BE INSTALLED ONLY WHERE SPECIFICALLY DETAILED IN THE PROJECT DRAWINGS, WITH EMBEDMENTS AND PROOF TESTING AS SPECIFICALLY IDENTIFIED IN EACH APPLICABLE DETAIL. FOR ADDITIONAL INFORMATION, UNO, FOR EXPANSION ANCHORS, SEE TABLE BELOW.
- POST-INSTALLED ANCHORS MAY NOT BE USED AT LOCATIONS OTHER THAN THOSE SPECIFICALLY DETAILED IN THE PROJECT DRAWINGS WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.

**CONCRETE: HILTI KWIK BOLT T22 EXPANSION ANCHORS**  
SEE ICC-ES ESR-4266 TABLE 1

ANCHOR DIAMETER	3/8"Ø	1/2"Ø	5/8"Ø
BIT DIAMETER	3/8"Ø	1/2"Ø	5/8"Ø
NOMINAL EMBEDMENT	2 1/2"Ø	2 3/4"Ø	4 1/2"Ø
HOLE DEPTH	2 3/4"Ø	2 3/4"Ø	4 1/2"Ø
TORQUE (STAINLESS STEEL)	30 FT-LB	40 FT-LB	60 FT-LB

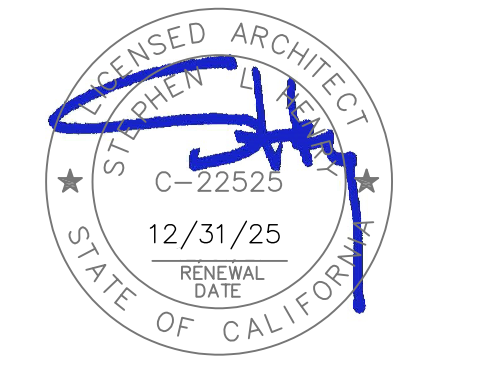
**NAILING SCHEDULE:**

DESCRIPTION	NAILING
<b>ROOF</b>	
1. BLKG BTWN CLG JOISTS, RAFTERS OR TRUSSES TO TOP PLATE OR OTHER FRMG BLW BLKG BTWN RAFTERS OR TRUSSES NOT AT THE WALL TOP PLATE, TO RAFTER OR TRUSS FLAT BLKG TO TRUSS & WEB FILLER	3-8d TOE NAIL, EA END 2-8d TOE NAIL OR 2-16d END NAIL, EA END
2. CLG JOIST TO TOP PLATE	16d FACE NAIL @ 6"cc
3. CLG JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OV/ PARTITIONS (NO THRUST)	3-8d TOE NAIL EA JOIST
4. CLG JOIST ATTACHED TO PARALLEL RAFTER, LAPS OV/ PARTITIONS (W/ THRUST)	3-16d FACE NAIL
5. COLLAR TIE TO RAFTER	CBC TABLE 2308.7.3.1
6. RAFTER OR TRUSS TO TOP PLATE (SEE CBC SECTION 2308.7.3.1, TABLE 2308.7.3.1)	3-10d FACE NAIL
7. RAFTERS TO RIDGE, VALLEY OR HIP RAFTERS; OR RAFTER TO 2" RIDGE	3-10d TOE NAIL OR 2-16d END NAIL
<b>WALL</b>	
8. STUD TO STUD (NOT BRACED WALL PANELS)	16d @ 24"cc FACE NAIL
9. STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (BRACED WALL PANELS)	16d @ 6"cc FACE NAIL
10. BUILT UP HEADER (2" TO 2" HEADER)	16d @ 16"cc FACE NAIL
11. CONT HEADER TO STUD	4-8d TOE NAIL
12. TOP PLATE TO TOP PLATE	16d @ 16"cc FACE NAIL
13. TOP PLATE TO TOP PLATE, AT END JOINTS	8-16d EA SIDE OF END JOINT FACE NAIL (24" MIN LAP SPLICE EA END)
14. BOT PLATE TO JOIST, RIM, BAND JOIST OR BLKG (NOT @ BRACED WALL PANELS)	16d @ 16"cc
15. BOT PLATE TO JOIST, RIM, BAND JOIST OR BLKG (BRACED WALL PANELS)	2-16d @ 16"cc
16. STUD TO TOP OR BOT PLATE	4-8d TOE NAIL
17. TOP OR BOT PLATE TO STUD	2-16d END NAIL
18. TOP PLATED, LAPS AT CORNERS & INTERSECTIONS	2-16d FACE NAIL
19. 1" BRACE TO EA STUD & PLATE	2-8d FACE NAIL
20. 1x6 SHEATHING TO EA BEARING	2-8d FACE NAIL
21. 1x8 & WIDER SHEATHING TO EA BEARING	3-8d FACE NAIL
<b>FLOOR</b>	
22. JOIST TO SILL, TOP PLATE OR GIRDER	3-8d TOE NAIL
23. RIM JOIST, BAND JOIST, OR BLKG TO TOP PLATE, SILL, OR OTHER FRAMING BLW	8d @ 6"cc TOE NAIL
24. 1x6 SUB FLOOR OR LESS TO EA JOIST	2-8d FACE NAIL
25. 2" SUB FLOOR TO JOIST OR GIRDER	2-16d FACE NAIL
26. 2" PLANKS EA BEARING (PLANK & BEAM, FLOOR & ROOF)	2-16d FACE NAIL
27. BUILT UP GIRDERS & BEAMS, 2" LUMBER LAYERS	10d @ 24"cc FACE NAIL AT TOP & BOT, STAGGER ON OPPOSITE SIDES
28. LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	3-16d EA JOIST OR RAFTER FACE NAIL
29. JOIST TO BAND JOIST OR RIM JOIST	3-16d END NAIL
30. BRIDGING OR BLKG TO JOIST, RAFTER OR TRUSS	2-8d TOE NAIL EA END

**STRUCTURAL STEEL NOTES:**

- THE FABRICATION AND ERECTION OF ALL STEEL CONSTRUCTION SHALL CONFORM TO THE 2022 CBC AND THE AISC STEEL CONSTRUCTION MANUAL 16th EDITION.
- STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE FOLLOWING
  - ANGLES ASTM A36, Fy = 36 KSI
  - BARNS AND PLATES ASTM A36, Fy = 36 KSI
  - RECTANGULAR HSS ASTM A500, GRADE B, Fy = 46 KSI
- WELDING SHALL BE BY THE ELECTRIC ARC PROCESS (SHIELDED METAL ARC WELDING, FLUX CORE ARC WELDING, GAS METAL ARC WELDING) PER AWS STANDARDS AND BY CERTIFIED WELDERS. REFER TO "QUALIFICATION PROCEDURE" AWS D1.1.
- ALL WELDED JOINTS AND ELECTRODES ARE TO BE "PREQUALIFIED." ALL WELDING ELECTRODES ARE TO BE E70XX UNO. FCAW FILLER METAL WIRE SHALL BE 3/32" MAX DIAMETER AND SMAW FILLER METAL WIRE SHALL BE 3/16" MAX DIAMETER.
- ALL STRUCTURAL STEEL SHALL BE ERECTED PLUM AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AS REQUIRED TO MAINTAIN STABILITY OF THE STRUCTURE UNTIL THE STRUCTURAL SYSTEM IS SUBSTANTIALLY COMPLETE.
- ALL STRUCTURAL STEEL ITEMS EMBEDDED IN CONCRETE AND LOCATED BELOW GRADE SHALL HAVE 3" MINIMUM COVER. ALL STRUCTURAL STEEL ITEMS EMBEDDED IN CONCRETE AND LOCATED ABOVE GRADE AT CONCRETE EXPOSED TO WEATHER SHALL HAVE 1 1/2" MINIMUM COVER.
- ALL STEEL BOLTS ARE TO HAVE STANDARD GAGE AND PITCH PER AISC. ALL STEEL-TO-STEEL BOLTED CONNECTIONS SHALL BE WITH A325-N BOLTS, UNO. ALL EMBEDDED ANCHOR BOLTS SHALL BE F1554 GRADE 36 UNO. HOLES AT STEEL-TO-STEEL CONNECTIONS ARE TO BE 1/8" OVERSIZE AND HOLES AT STEEL COLUMN BASE PLATES ARE TO BE 1/8" OVERSIZE, UNO.
- STRUCTURAL STEEL IS TO BE SHOP PRIMED WITH ONE COAT, EXCEPT THE BELOW NOTED LOCATIONS, WHERE PRIMER SHALL BE HELD 2" CLEAR:
  - STEEL SURFACES EMBEDDED IN CONCRETE
  - SURFACES TO BE FIELD WELDED
  - CONTACT SURFACES WITH HIGH STRENGTH BOLTED CONNECTIONS
- ALL STRUCTURAL COLUMNS ARE TO BE SET UPON ANCHOR RODS WITH LEVELING NUTS ALLOWING APPROXIMATELY 1 1/2" ± CLEARANCE. CLEARANCE SPACE UNDER COLUMNS AND BLOCK-OUTS IN CURBS FOR COLUMN PLACEMENT ARE TO BE FILLED WITH A NON-SHRINK, HIGH-STRENGTH, POURABLE GROUT.

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CULINARY LAB  
VENTURE ACADEMY

TYPICAL STRUCTURAL  
NOTES & DETAILS

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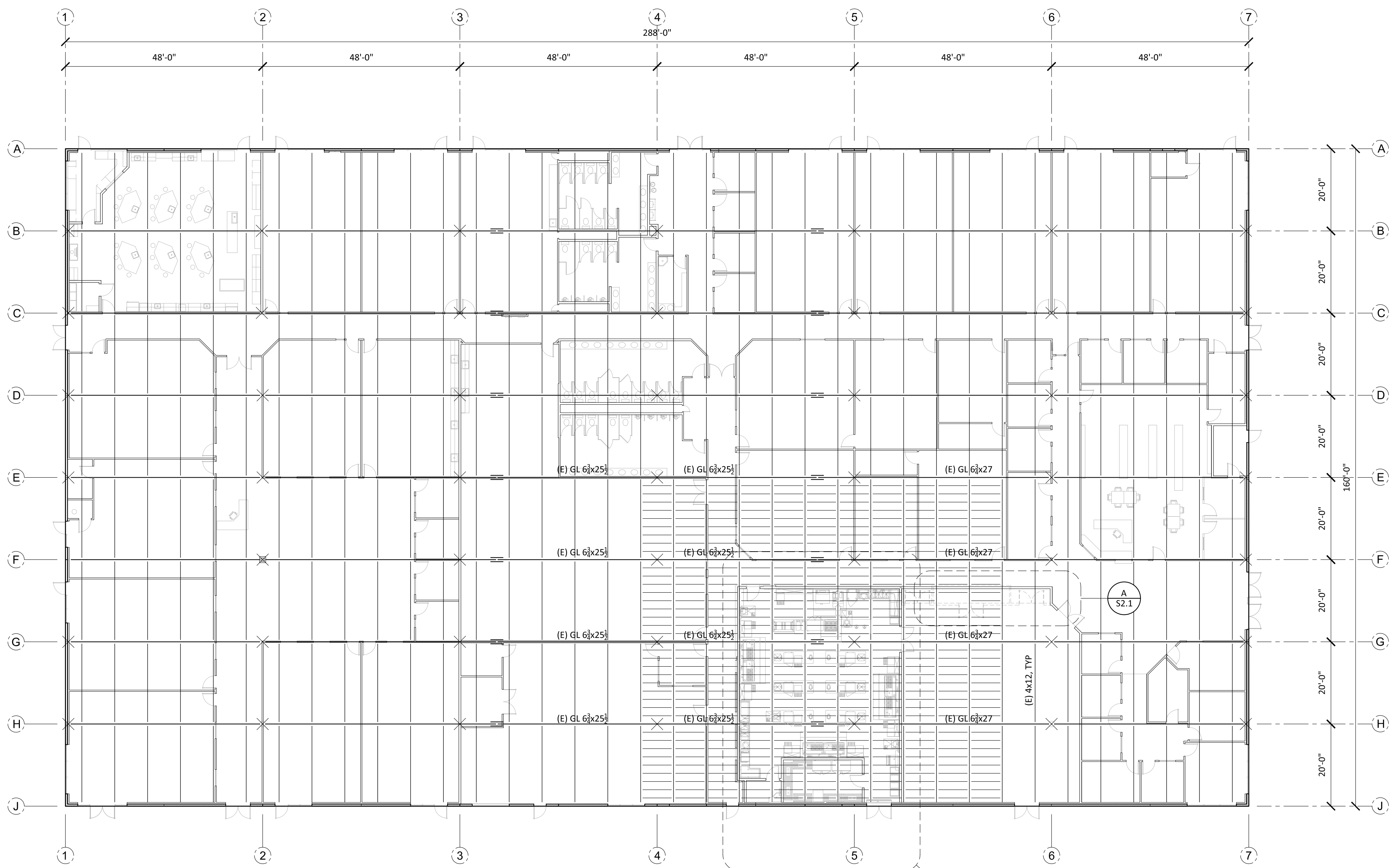


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CADFILE		
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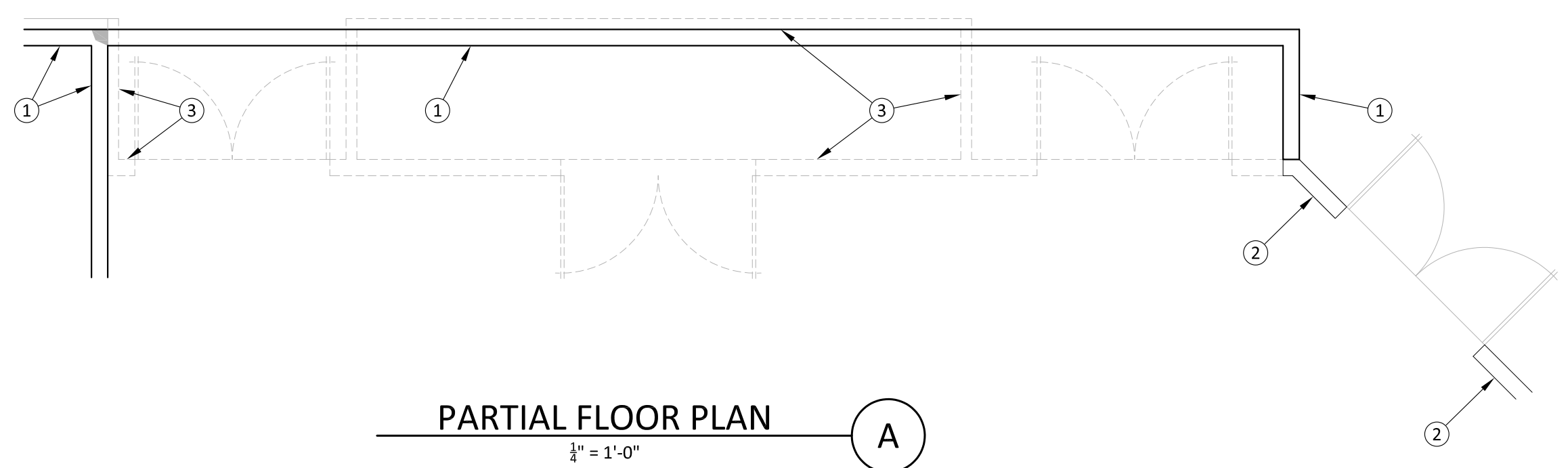
SHEET NO.

S0.2





**ROOF FRAMING PLAN**  
1/8" = 1'-0"

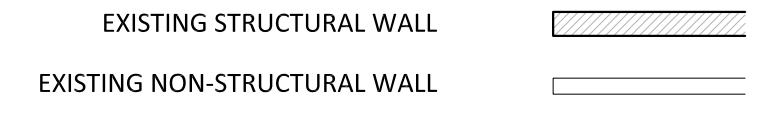


**PARTIAL FLOOR PLAN**  
1/8" = 1'-0"

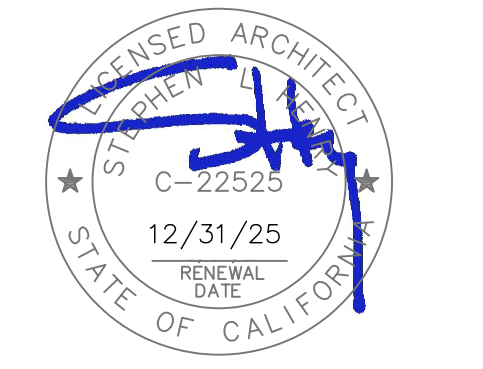
**ROOF FRAMING PLAN NOTES:**

1. CONTRACTOR SHALL COORDINATE ALL WORK CONTAINED HEREIN WITH ALL PROJECT WORK BY OTHERS INCLUDING CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL & PLUMBING.
2. STRUCTURAL SCOPE IS LIMITED TO MISCELLANEOUS FRAMING MODIFICATIONS TO ACCOMMODATE THE KITCHEN UPGRADE.

**ROOF FRAMING PLAN LEGEND:**



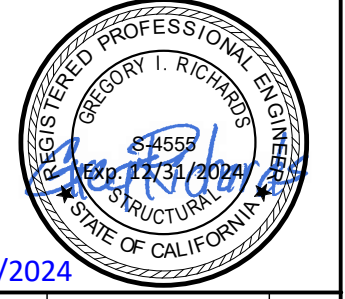
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CULINARY LAB  
VENTURE ACADEMY

ROOF FRAMING PLAN &  
PARTIAL FLOOR PLAN

CONSULTANT  
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4/10/2024

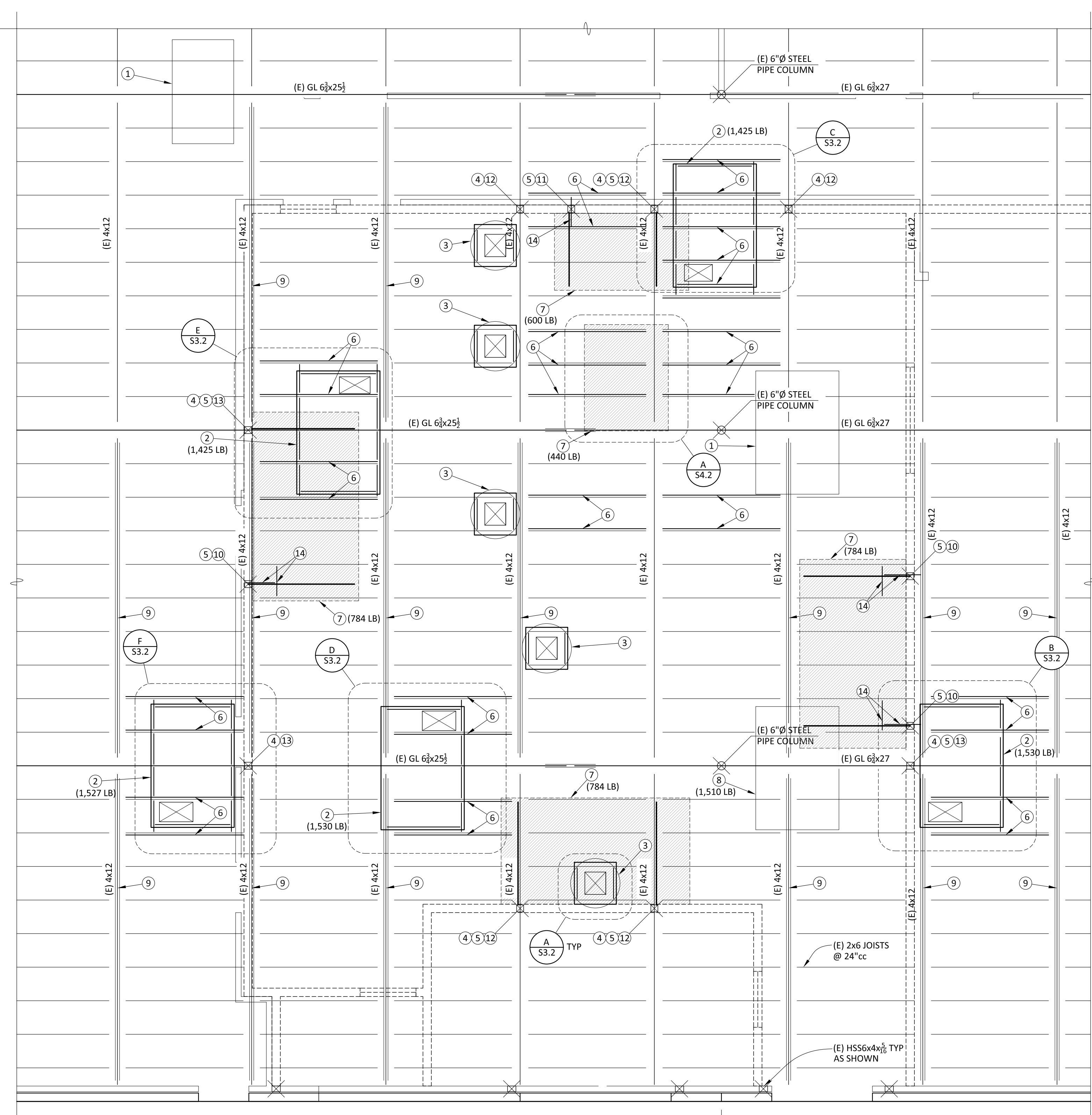
**PARTIAL FLOOR PLAN KEYNOTES:**

- 1 NEW WOOD FRAMED WALL WITH 1 1/2"x5" LVL STUDS @ 12"cc SEE 10A/S4.1 AND 10B/S4.1 FOR CONNECTION AT ROOF FRAMING SEE 11/S4.1 FOR CONNECTION AT SLAB SEE ARCHITECTURAL DRAWINGS FOR HEIGHT AND EXACT LAYOUT
- 2 EXISTING WALL AND DOORS TO REMAIN
- 3 EXISTING WALL TO BE DEMOLISHED - CONFIRM EXTENT WITH ARCHITECTURAL DRAWINGS

PROJECT NO.	REVISIONS	BY
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SHEET NO.

**S2.1**



**ENLARGED PARTIAL ROOF FRAMING PLAN**  
1/4" = 1'-0"

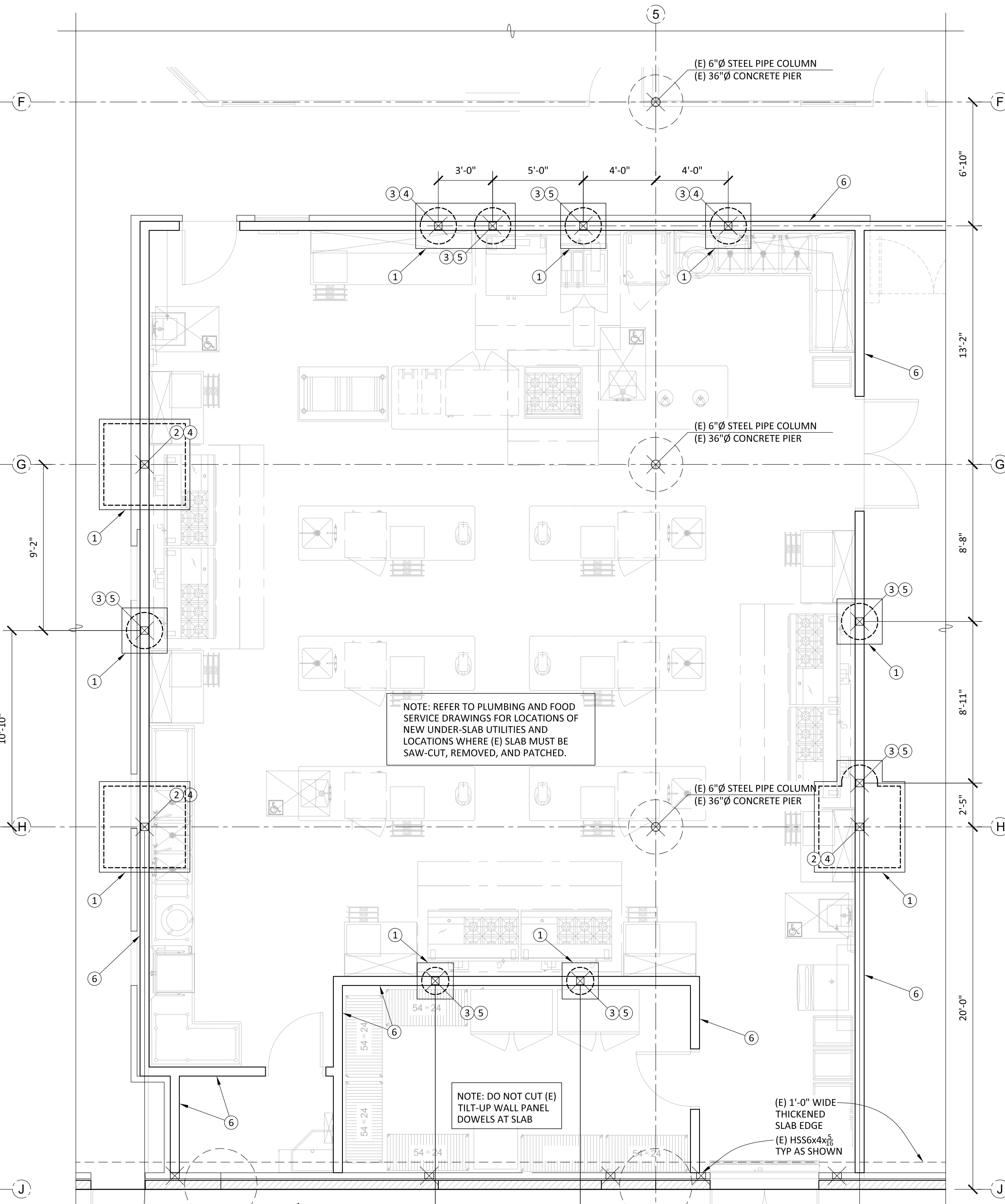
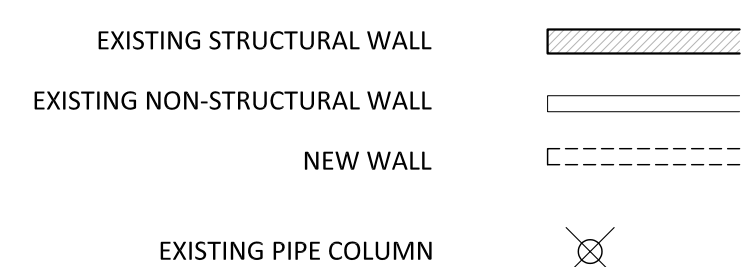
**ENLARGED PARTIAL ROOF FRAMING PLAN KEYNOTES:**

- 1 EXISTING ROOF TOP EQUIPMENT TO REMAIN
- 2 NEW ROOF TOP EQUIPMENT TO BE ADDED, WEIGHT INDICATED IN PARENTHESIS - SEE MECHANICAL DRAWINGS
- 3 NEW ROOF TOP EXHAUST FAN TO BE ADDED, 150 LB MAX - SEE MECHANICAL DRAWINGS
- 4 NEW HSS POST UNDER EXISTING BEAM - SEE PARTIAL FOUNDATION PLAN FOR LOCATION - SEE A3/S4.1 FOR TOP CONNECTION AT EXISTING 4x12 AND SEE 5/S4.1 FOR TOP CONNECTION AT EXISTING GL GIRDER
- 5 NEW HSS COLUMN WITH WELDED OUTRIGGER TO SUPPORT NEW KITCHEN HOOD - SEE A1/S4.1 TO A3/S4.1 AND 5/S4.1 FOR CONNECTION AT TOP
- 6 NEW SISTERED 2x6 JOISTS AT NEW HOOD - FASTEN WITH 2-10d @ 16"cc ALONG FULL LENGTH
- 7 NEW NEW HOOD BELOW, WEIGHT INDICATED IN PARENTHESIS - SEE FOOD SERVICE DRAWINGS
- 8 NEW EQUIPMENT TO BE PLACED ON EXISTING CURB, WEIGHT INDICATED IN PARENTHESIS - SEE MECHANICAL DRAWINGS
- 9 REINFORCE EXISTING 4x12 PURLINS PER 3/S4.1, TYP
- 10 TOP CONNECTION AT (N) HSS TO (N) 4x8 BLOCK PER A1/S4.1
- 11 TOP CONNECTION AT (N) HSS TO (N) 4x8 BLOCK PER A2/S4.1
- 12 TOP CONNECTION AT (N) HSS TO (E) 4x12 PER A3/S4.1
- 13 TOP CONNECTION AT (N) HSS TO (E) GL GIRDER PER 5/S4.1
- 14 NEW 4x8 BLOCK

**ENLARGED PARTIAL ROOF FRAMING PLAN NOTES:**

1. CONTRACTOR SHALL COORDINATE ALL WORK CONTAINED HEREIN WITH ALL PROJECT WORK BY OTHERS INCLUDING CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL & PLUMBING.
2. STRUCTURAL SCOPE IS LIMITED TO MISCELLANEOUS FRAMING MODIFICATIONS TO ACCOMMODATE THE KITCHEN UPGRADE.

**ENLARGED PARTIAL ROOF FRAMING PLAN LEGEND:**



**ENLARGED PARTIAL FOUNDATION PLAN**  
1/4" = 1'-0"

**ENLARGED PARTIAL FOUNDATION PLAN KEYNOTES:**

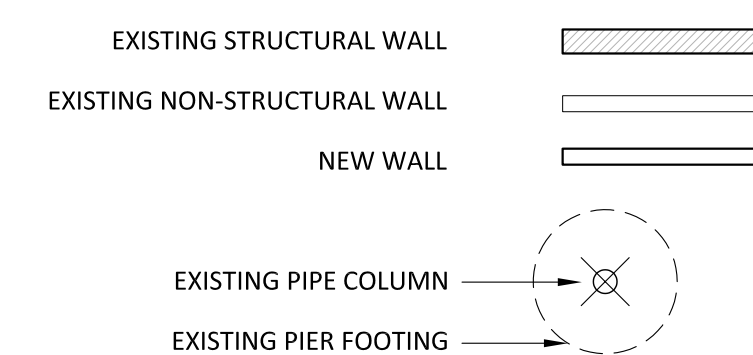
- 1 EDGE OF SAW-CUT SLAB FOR NEW FOOTING
- 2 NEW 4'-6"x4'-6"x2'-6" SPREAD FOOTING AT NEW COLUMN LOCATION
- 3 NEW 2'-0"x2'-6" DEEP PIER FOOTING AT NEW COLUMN LOCATION
- 4 NEW HSS5x5x3/8 COLUMN UNDER EXISTING BEAM - SEE 2/S4.1 & 6/S4.1
- 5 NEW HSS5x5x3/8 COLUMN WITH WELDED OUTRIGGER TO SUPPORT NEW KITCHEN HOOD - SEE A/S4.1
- 6 NEW WOOD FRAMED WALL WITH 1 1/2"x5 1/2" LVL STUDS @ 12"cc SEE 2/S0.2 FOR FRAMING AT OPENINGS SEE 10A/S4.1 AND 10B/S4.1 FOR CONNECTION AT ROOF FRAMING FOR FULL HEIGHT WALLS AND 6/S0.2 FOR PARTIAL HEIGHT WALLS SEE 11/S4.1 FOR CONNECTION AT SLAB SEE ARCHITECTURAL DRAWINGS FOR HEIGHT AND EXACT LAYOUT - PERIMETER WALLS ARE FULL HEIGHT, UNO

FOR CUTTING AND PATCHING OF EXISTING CONCRETE SLAB - SEE 12/S4.1

**ENLARGED PARTIAL FOUNDATION PLAN NOTES:**

1. CONTRACTOR SHALL COORDINATE ALL WORK CONTAINED HEREIN WITH ALL PROJECT WORK BY OTHERS INCLUDING CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL & PLUMBING.
2. STRUCTURAL SCOPE IS LIMITED TO MISCELLANEOUS FRAMING MODIFICATIONS TO ACCOMMODATE THE KITCHEN UPGRADE.

**ENLARGED PARTIAL FOUNDATION PLAN LEGEND:**



NOTE: REFER TO PLUMBING AND FOOD SERVICE DRAWINGS FOR LOCATIONS OF NEW UNDER-SLAB UTILITIES AND LOCATIONS WHERE (E) SLAB MUST BE SAW-CUT, REMOVED, AND PATCHED.

NOTE: DO NOT CUT (E) TILT-UP WALL PANEL DOWELS AT SLAB

(E) 1'-0" WIDE THICKENED SLAB EDGE (E) HSS6x4x3/8 TYP AS SHOWN

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**CULINARY LAB VENTURE ACADEMY**  
**ENLARGED PARTIAL FOUNDATION PLAN & ENLARGED PARTIAL ROOF FRAMING PLAN**

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**RW CONSULTING Engineers Inc**  
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WEST SACRAMENTO, CA 95691  
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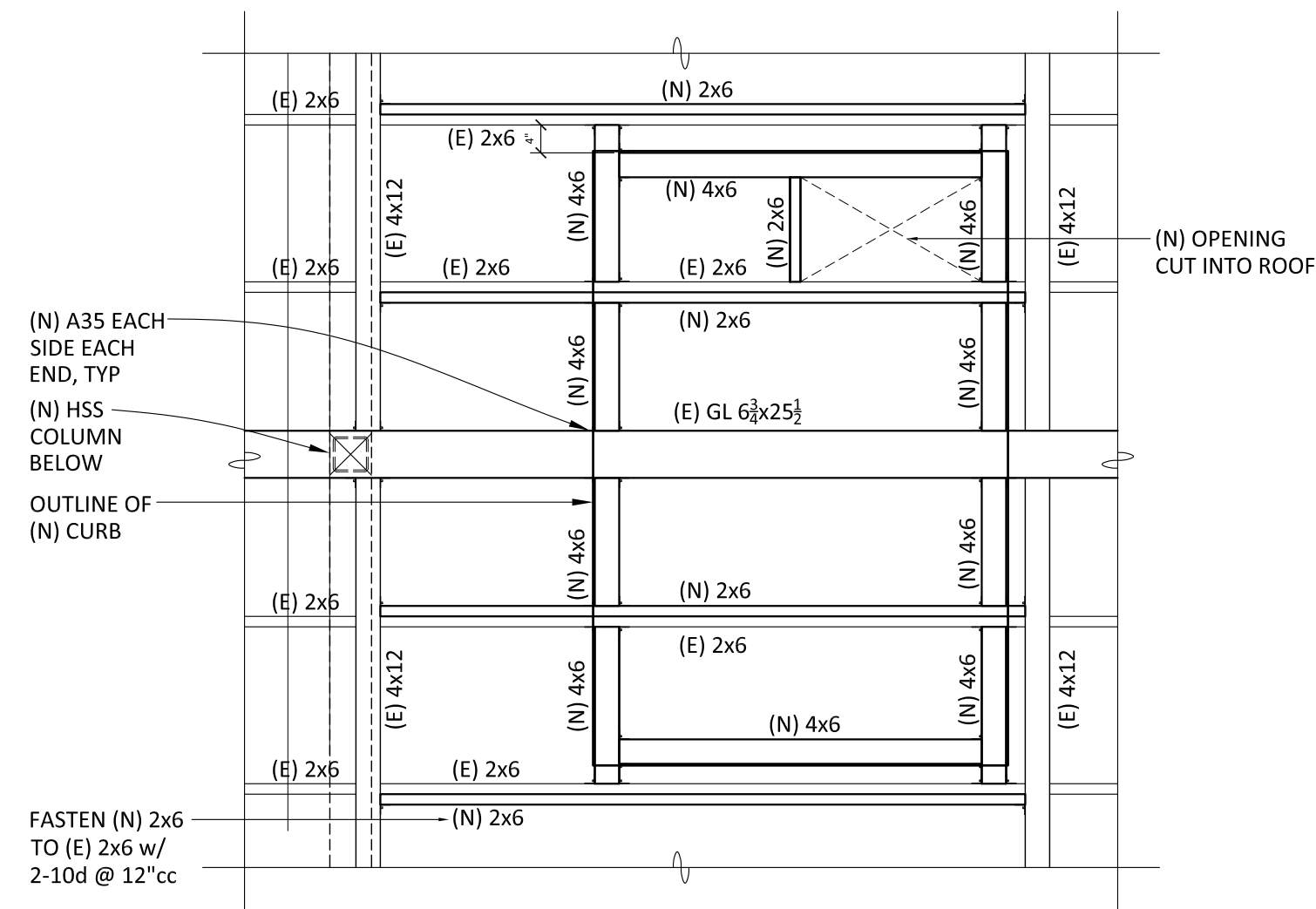


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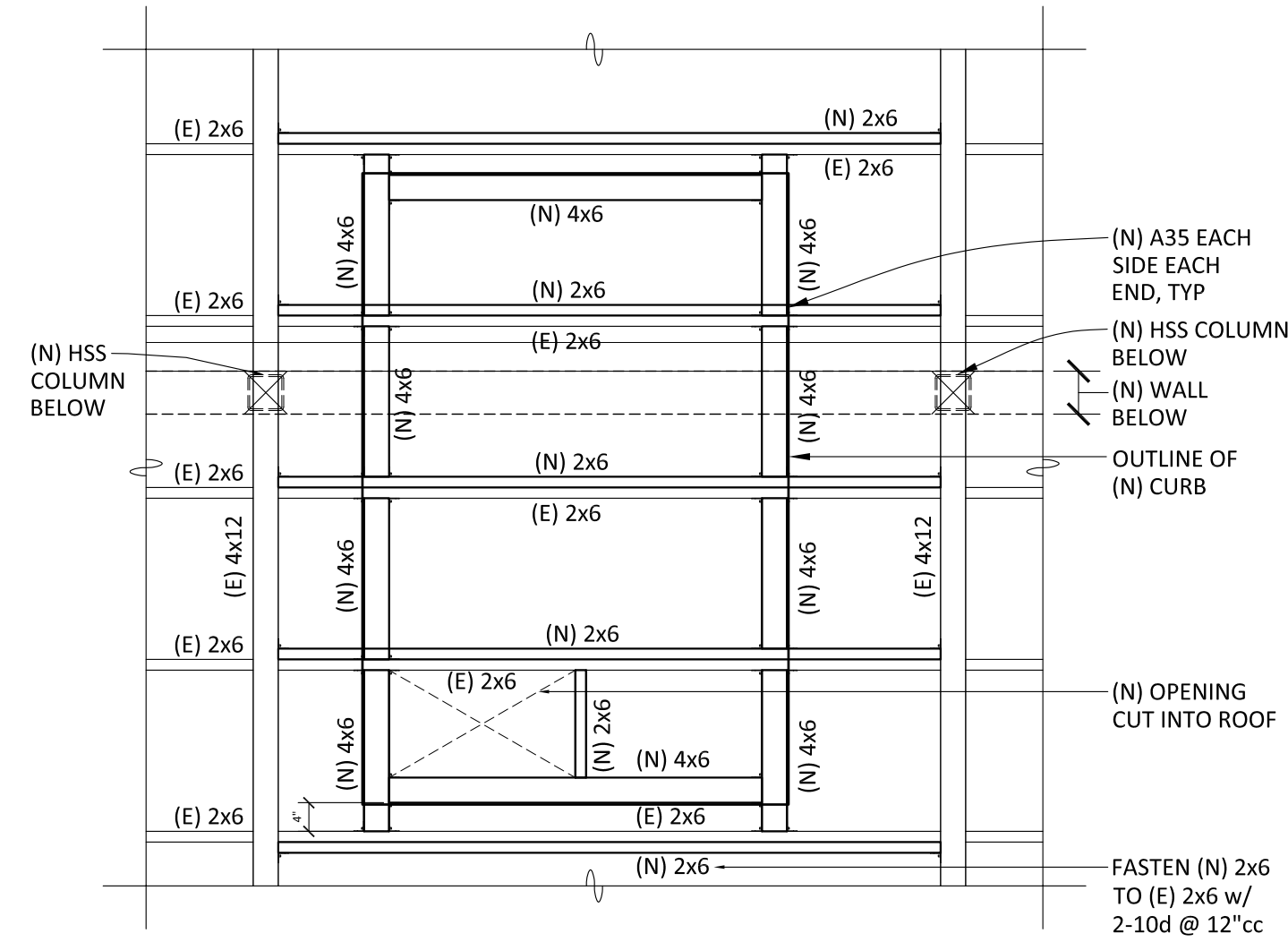
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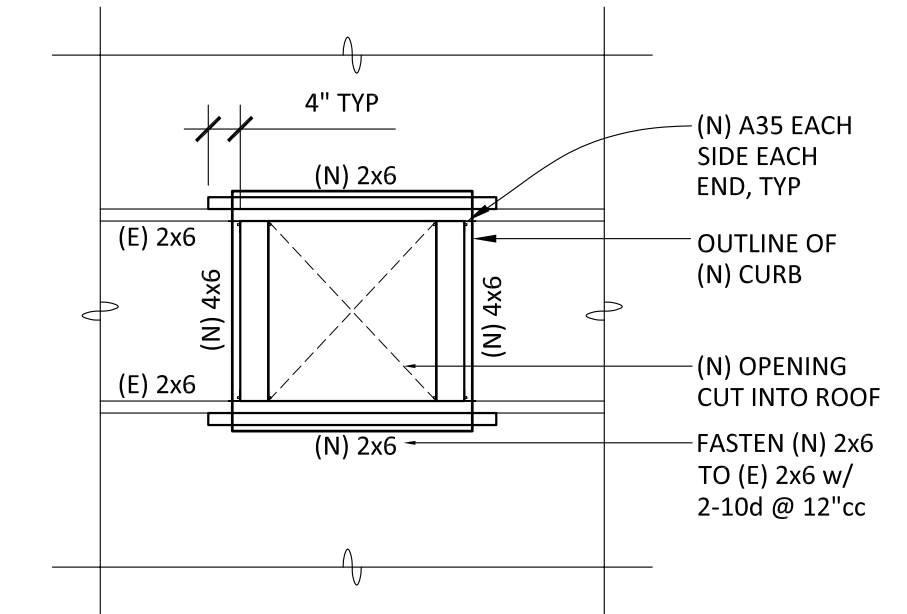
**S3.1**



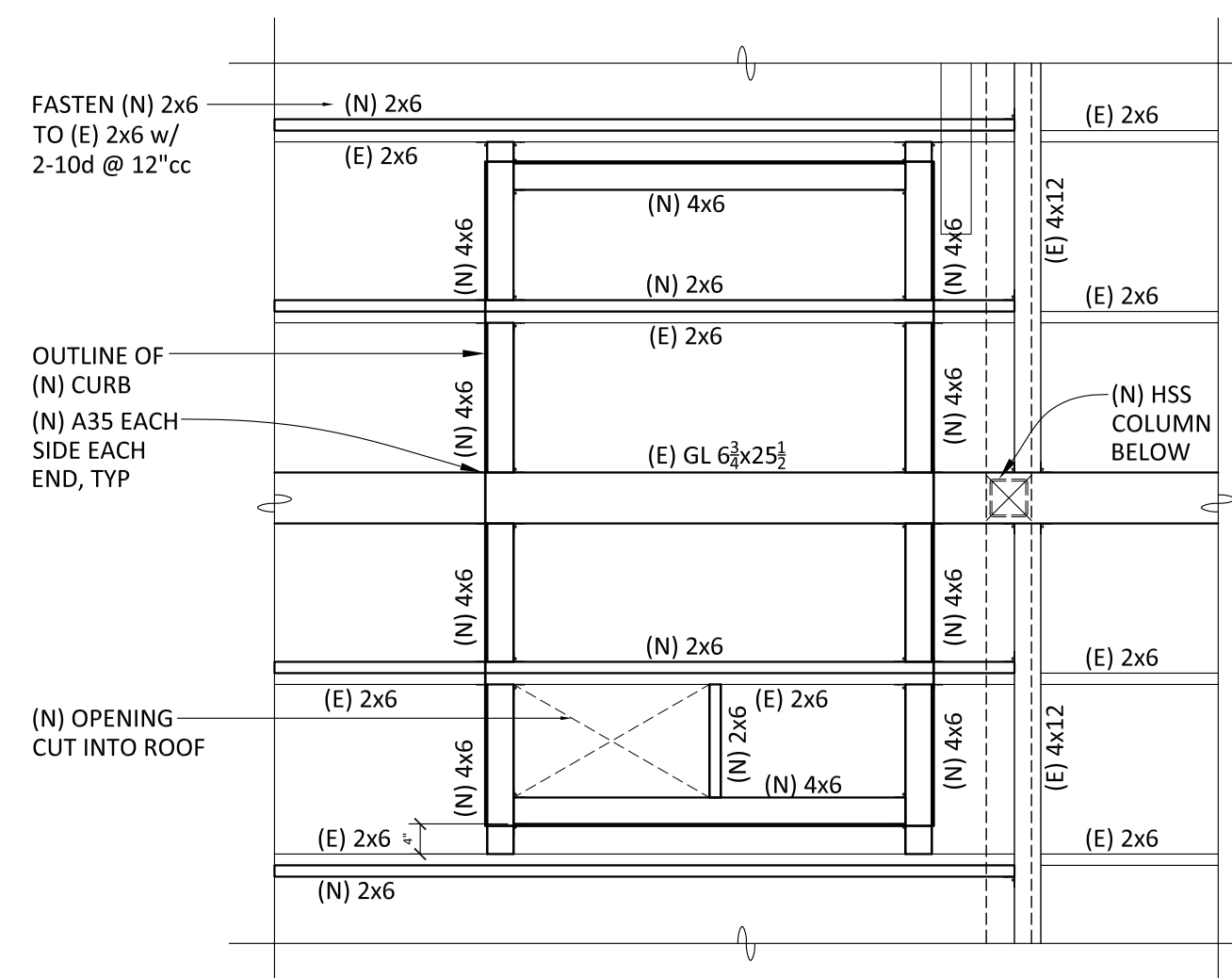
ENLARGED FRAMING PLAN **E**  
 $\frac{1}{8}'' = 1'-0''$



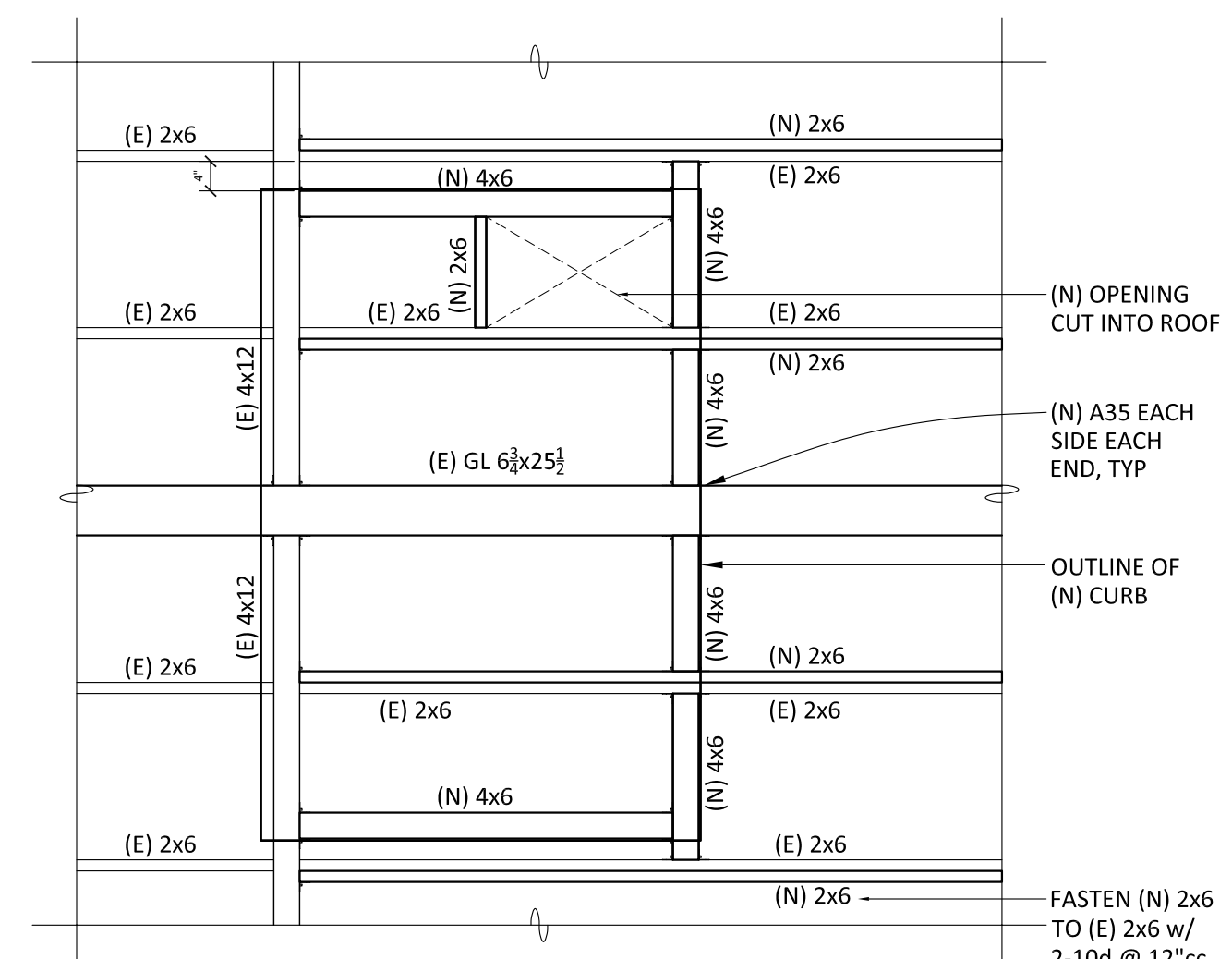
ENLARGED FRAMING PLAN **C**  
 $\frac{1}{8}'' = 1'-0''$



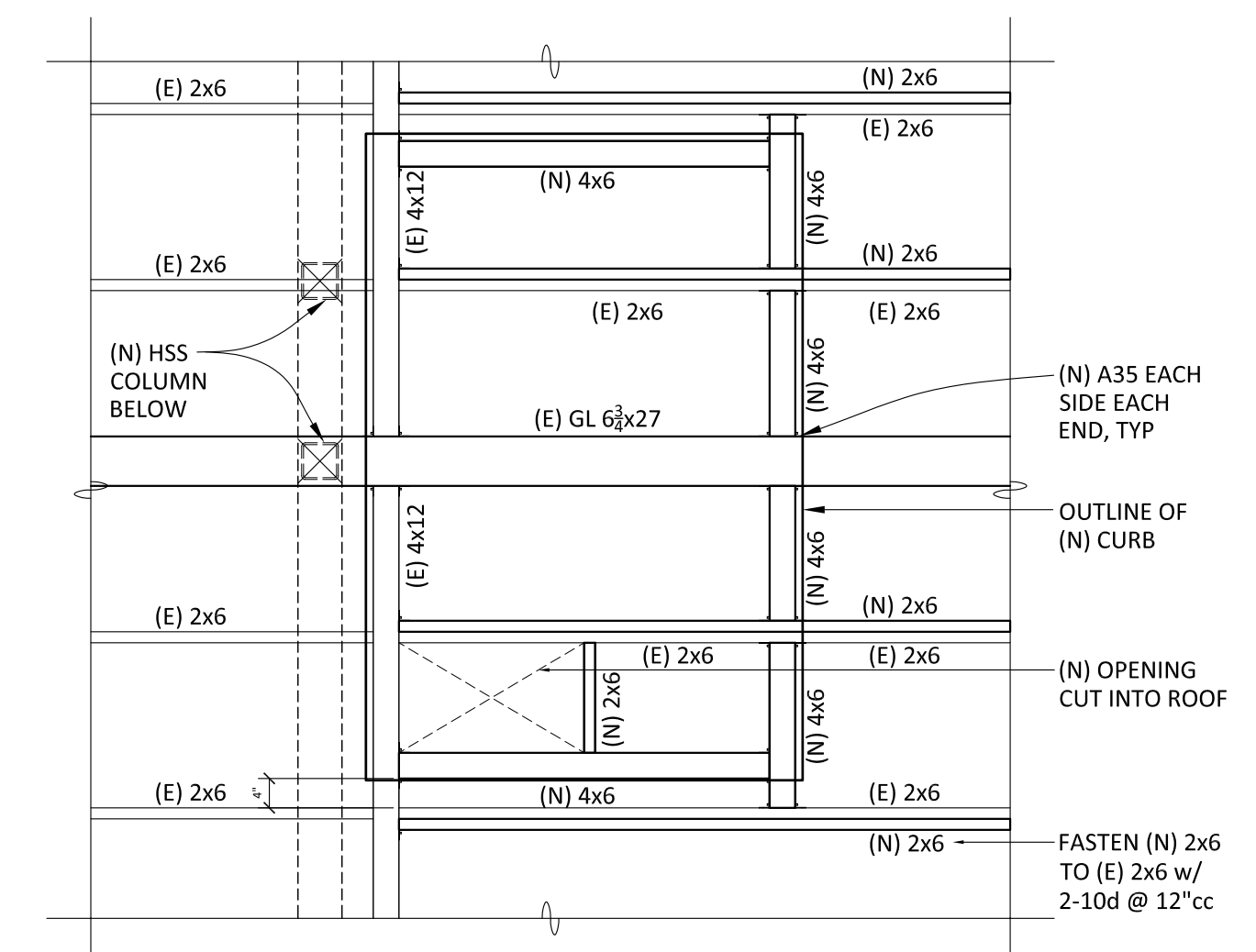
ENLARGED FRAMING PLAN **A**  
 $\frac{1}{8}'' = 1'-0''$



ENLARGED FRAMING PLAN **F**  
 $\frac{1}{8}'' = 1'-0''$

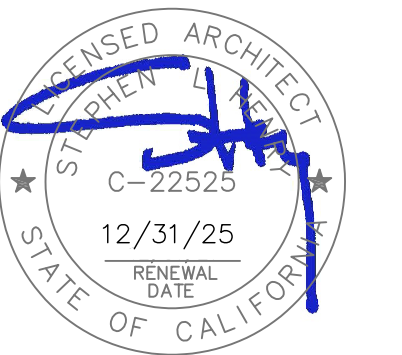


ENLARGED FRAMING PLAN **D**  
 $\frac{1}{8}'' = 1'-0''$



ENLARGED FRAMING PLAN **B**  
 $\frac{1}{8}'' = 1'-0''$

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CULINARY LAB  
 VENTURE ACADEMY  
 ENLARGED EQUIPMENT  
 FRAMING PLANS

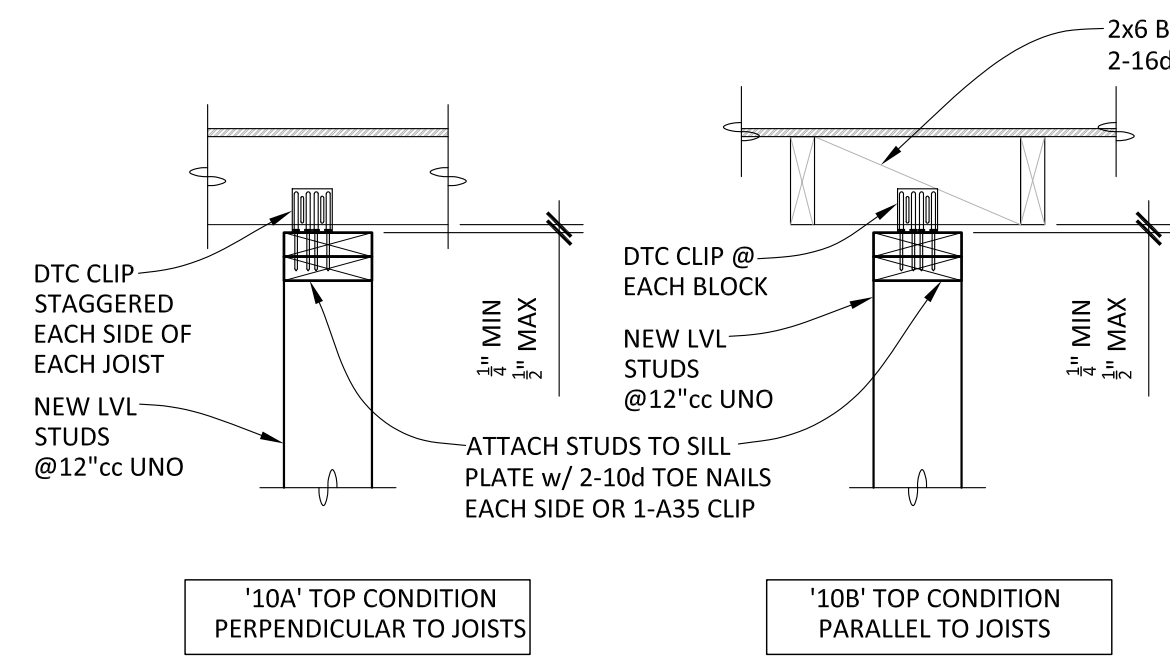
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**Engineers Inc**  
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 WEST SACRAMENTO, CA 95691  
 916.716.6910



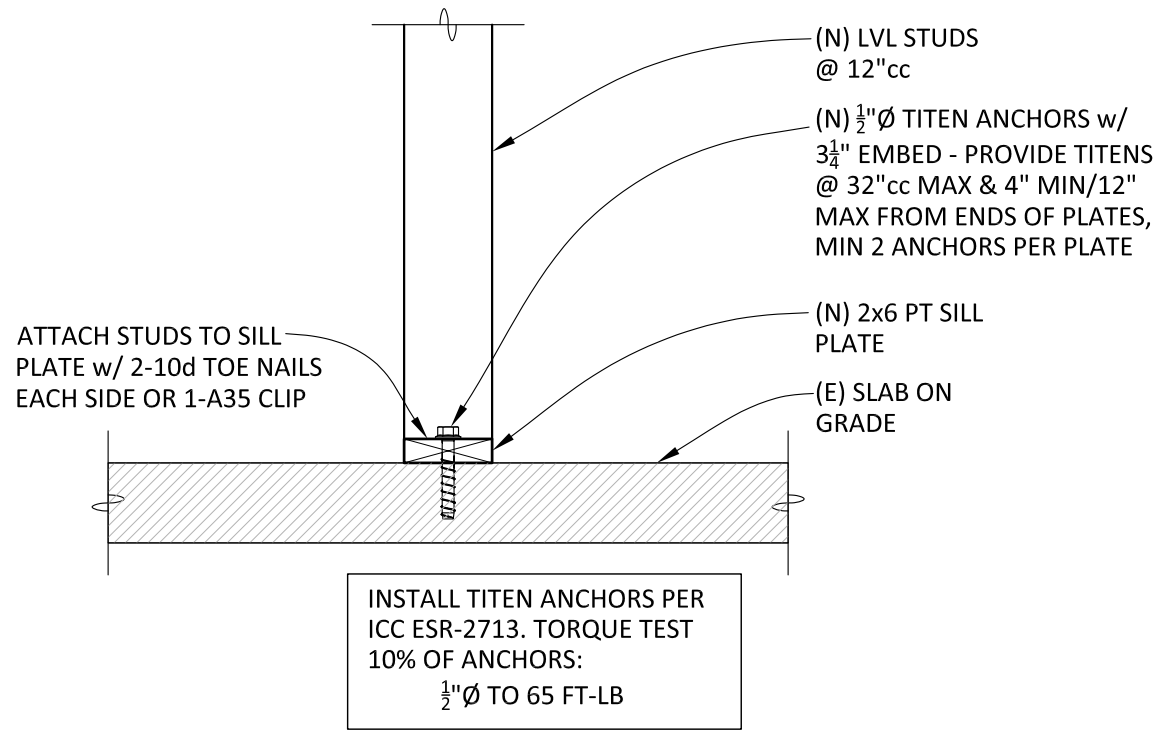
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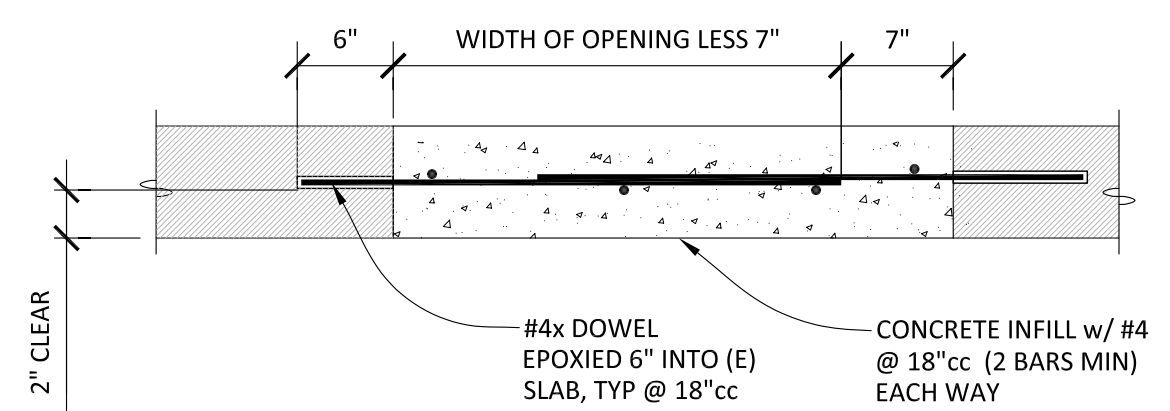
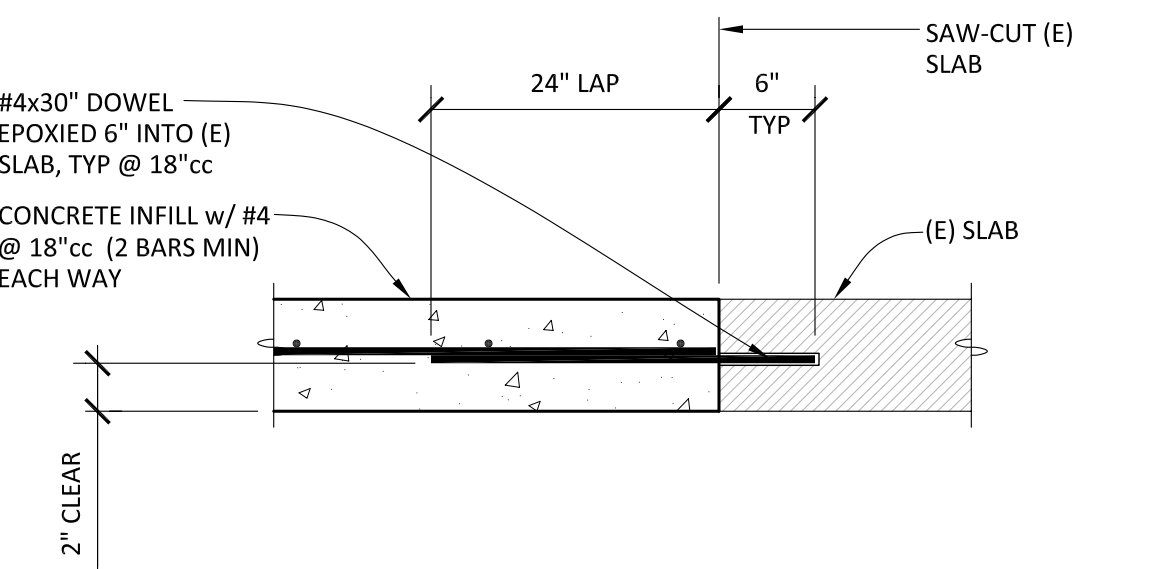
S3.2



DETAIL 10  
1" = 1'-0"

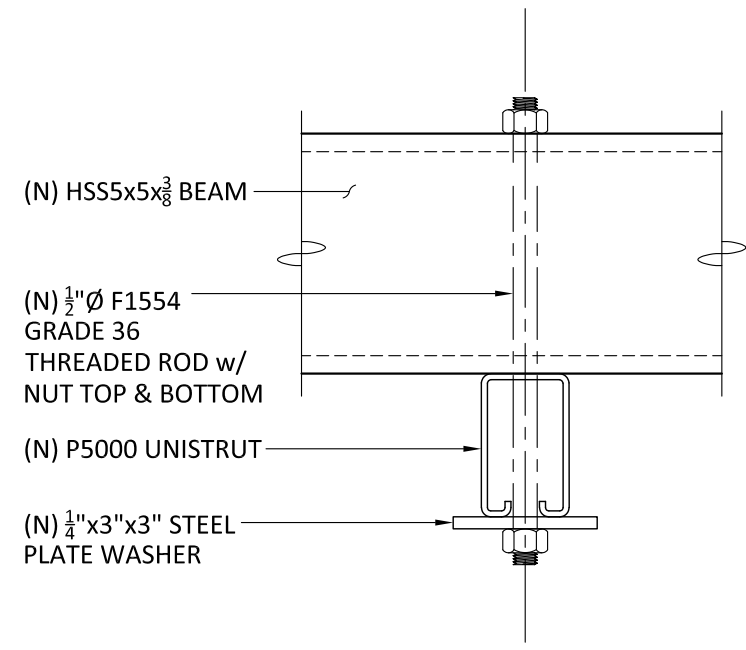


DETAIL 11  
1" = 1'-0"

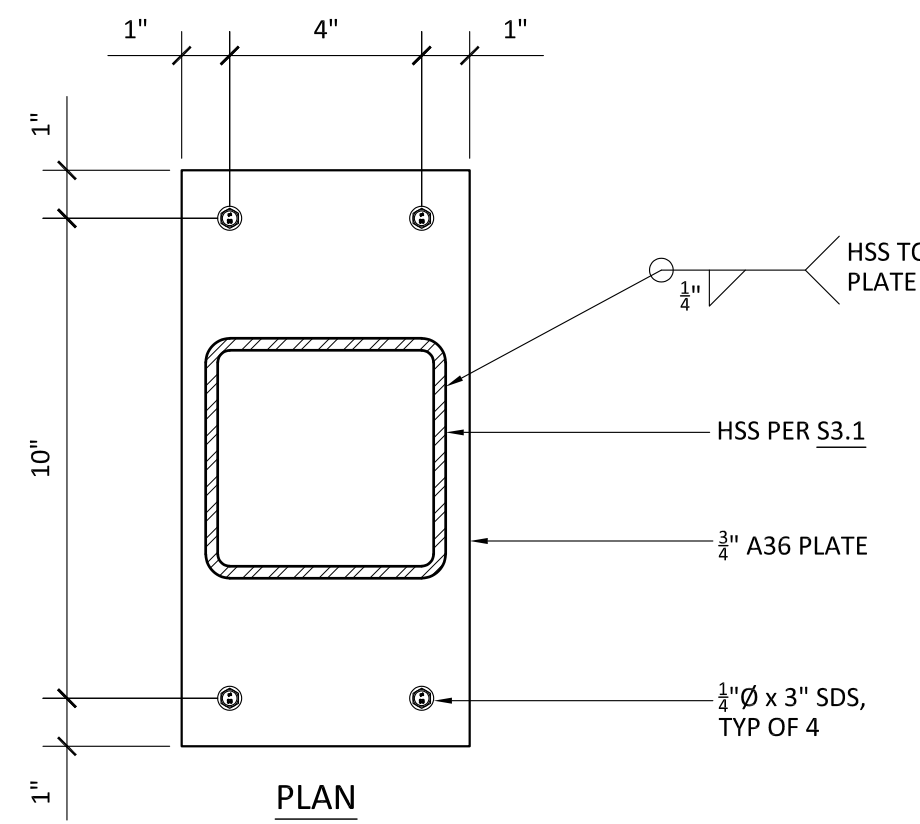


- SLAB REPAIR NOTES:**
- THICKNESS OF NEW SLAB IS TO MATCH THICKNESS OF EXISTING SLAB.
  - UNDER-SLAB CONDITION AT REPAIR LOCATIONS IS TO MATCH EXISTING CONDITIONS, INCLUDING GRAVEL FOR CAPILLARY BREAK AND VAPOR BARRIER IF PRESENT.
  - INSTALL EPOXIED REBAR WITH HILTI HIT-HY 200 V3 PER ICC-ES ESR-4868. PERIODIC INSPECTION REQUIRED. PULL TEST 10% OF ALL EPOXY BARS TO 2,000 LB.
  - WHERE NEW CONCRETE IS IN CONTACT WITH EXISTING CONCRETE, ROUGHEN AND CLEAN SURFACE, AND APPLY BONDING AGENT

SLAB PATCHING  
DETAIL 12  
1" = 1'-0"

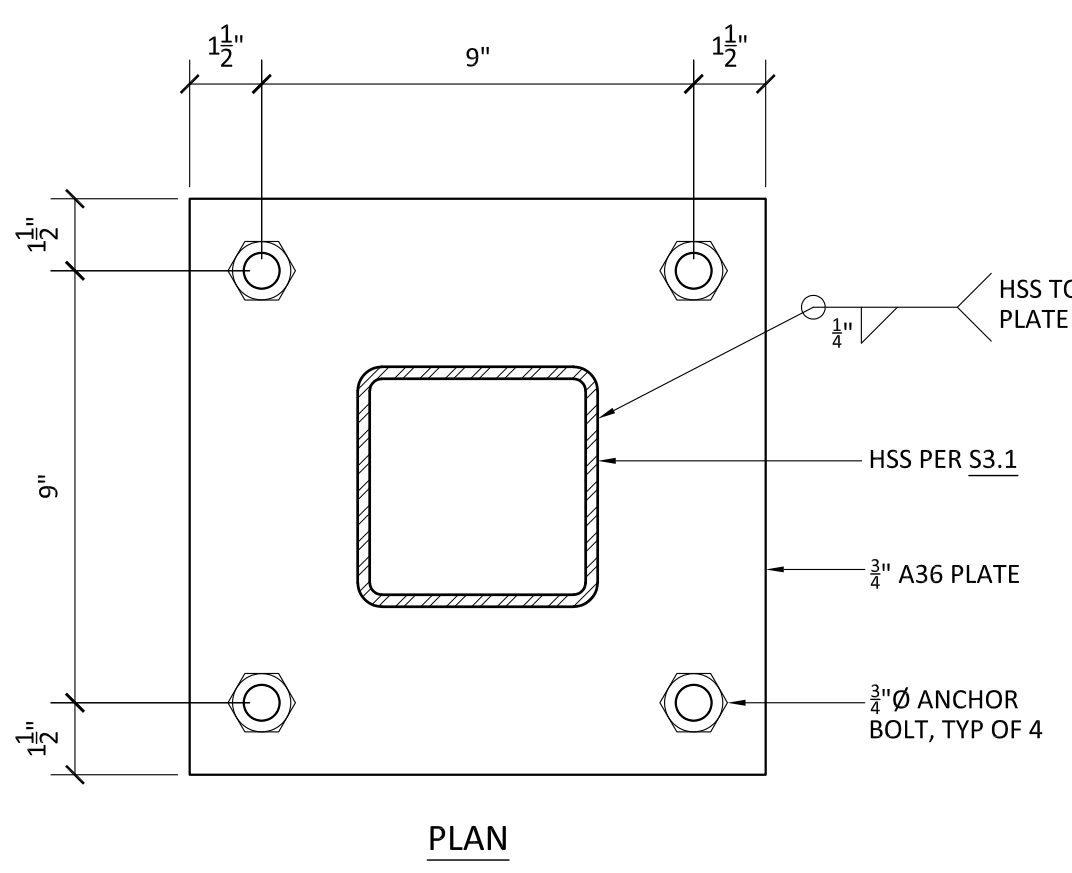


DETAIL 7  
3" = 1'-0"



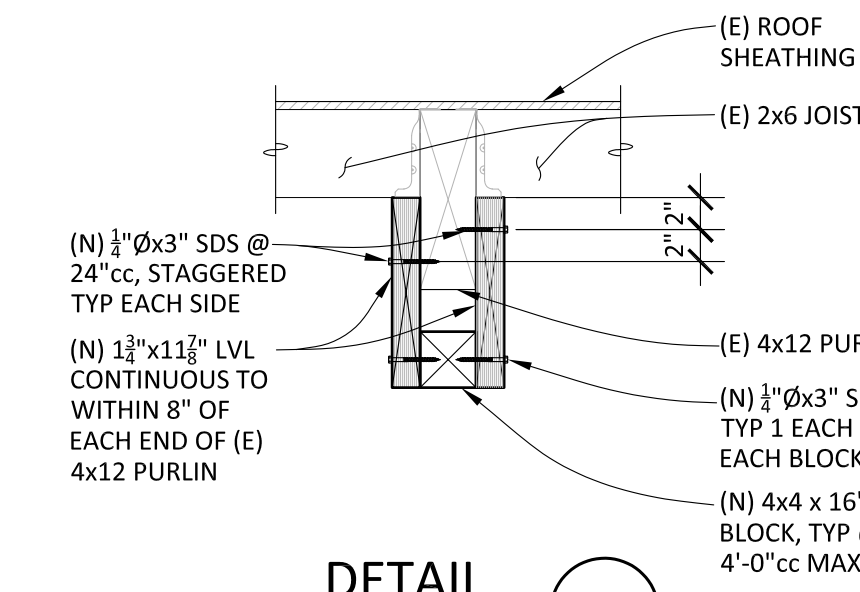
CAP PLATE - HOLES ARE TO BE 1/8" MAX OVERSIZE  
-SDS ARE TO BE PER ICC-ES ESR-2236

DETAIL 8  
3" = 1'-0"

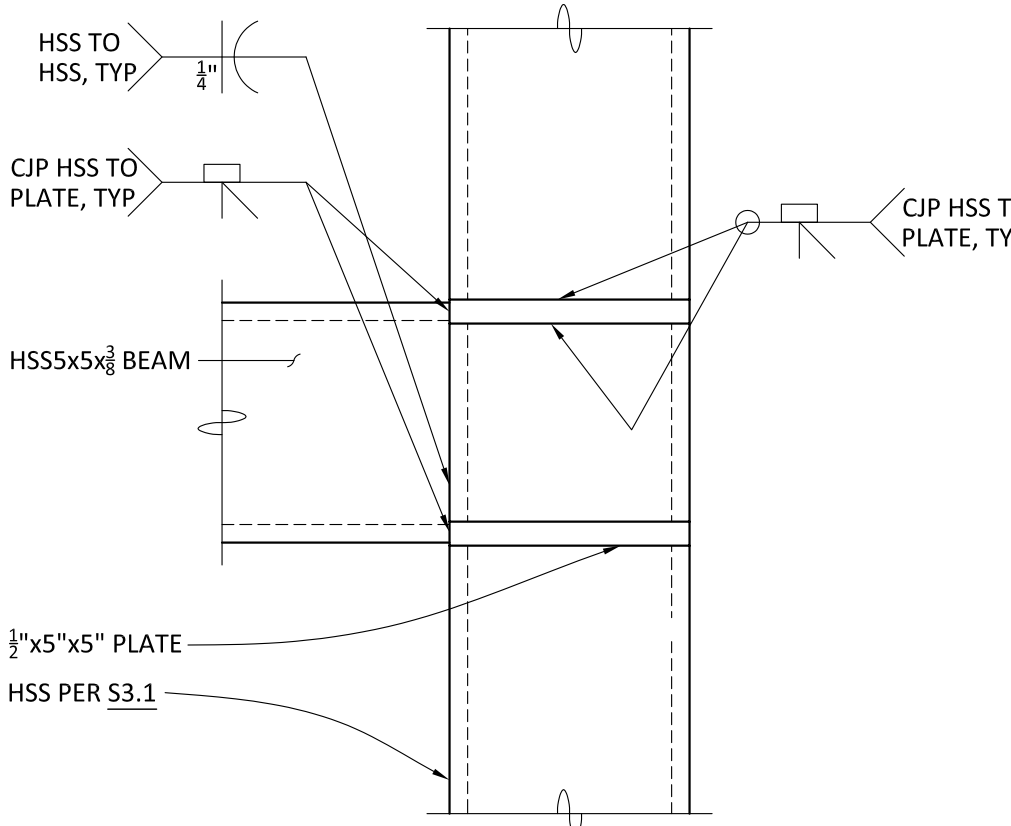


BASE PLATE - HOLES ARE TO BE 1/8" MAX OVERSIZE  
-ANCHOR BOLTS ARE TO BE PER F1554 GRADE 36

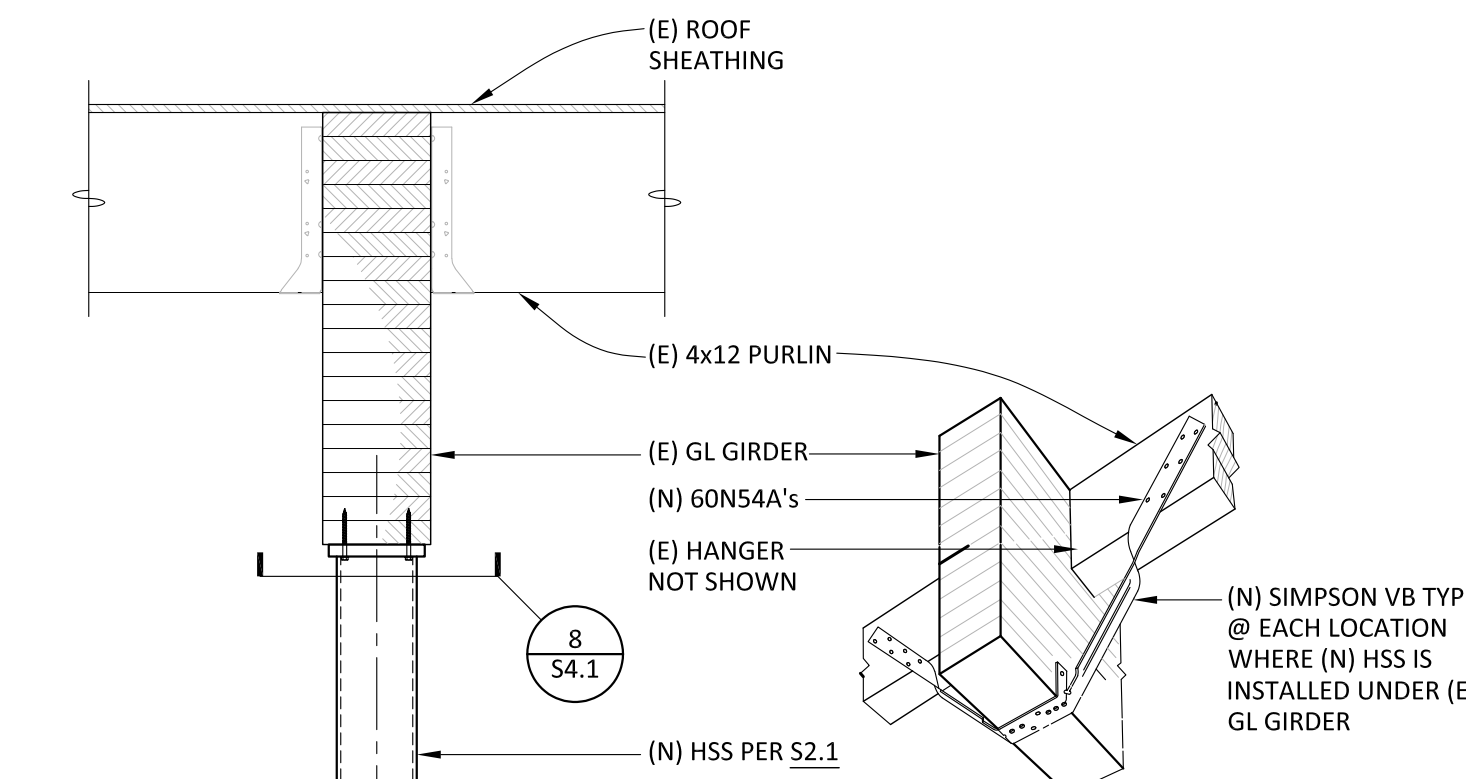
DETAIL 9  
3" = 1'-0"



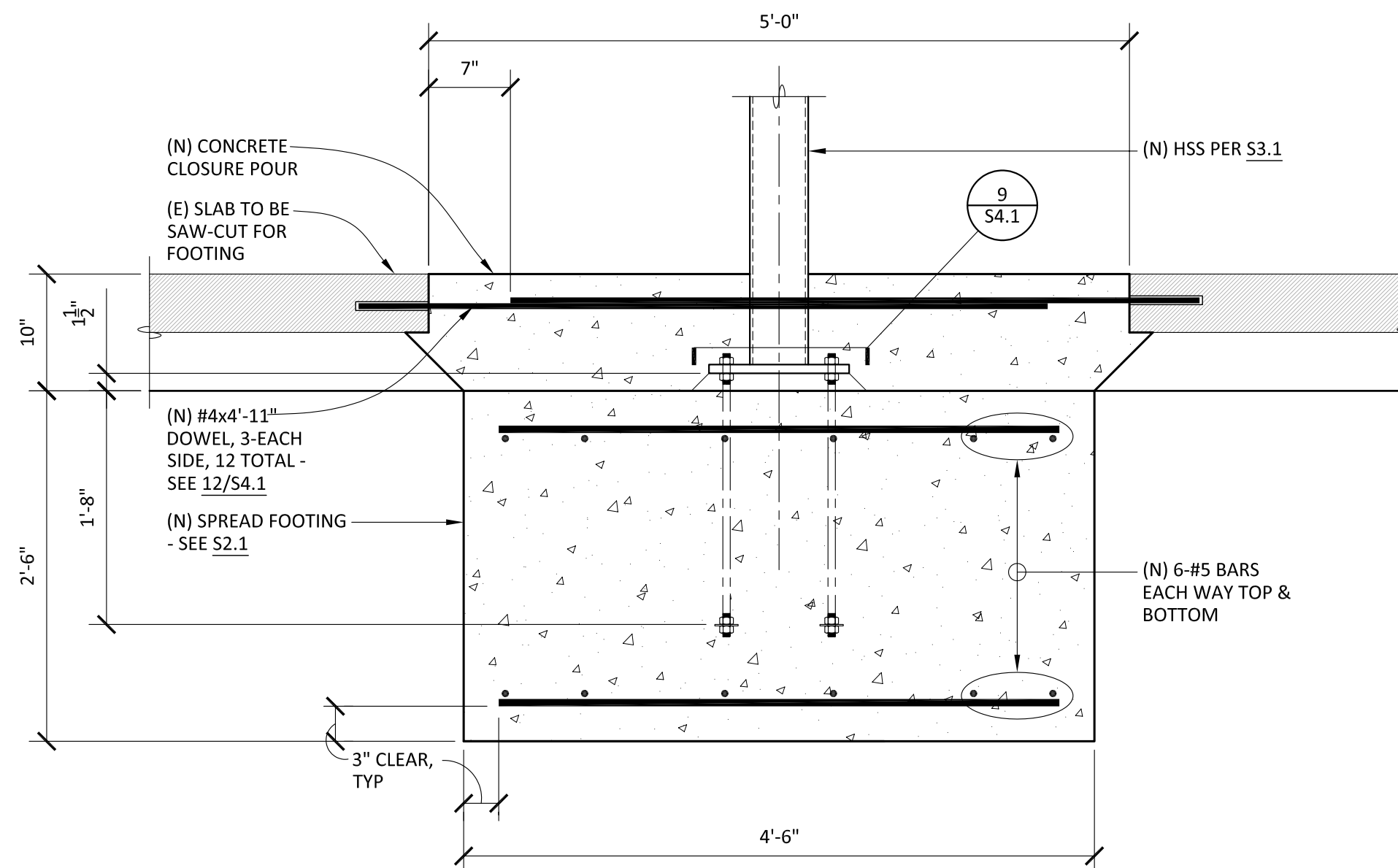
DETAIL 3  
1" = 1'-0"



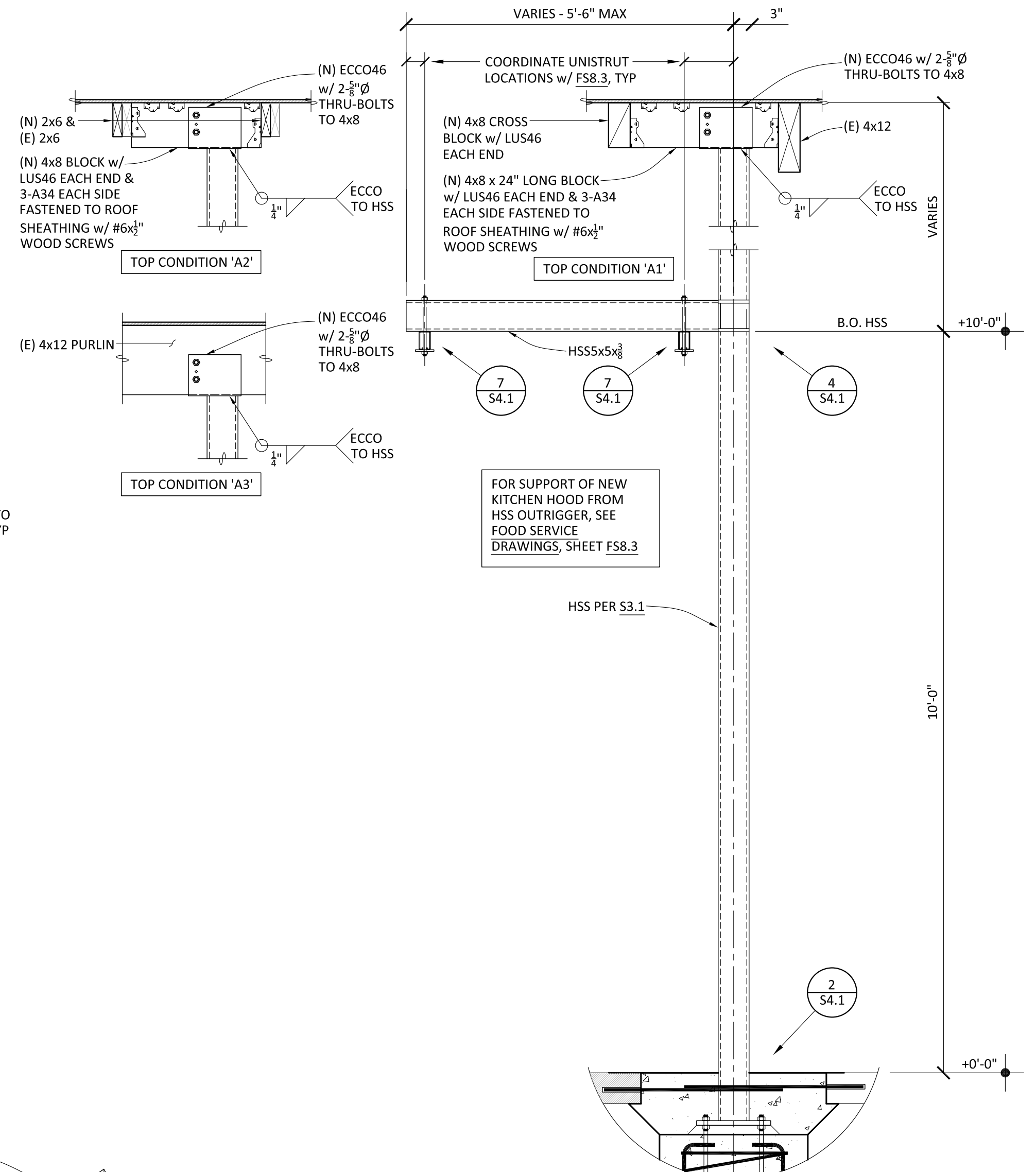
DETAIL 4  
3" = 1'-0"



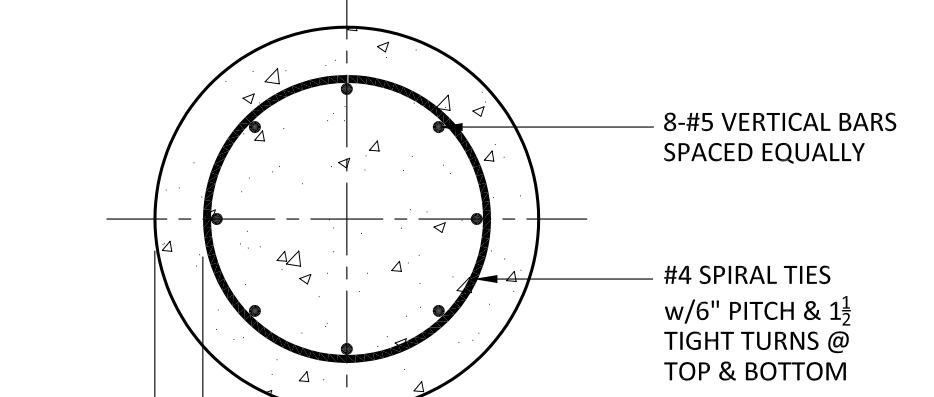
DETAIL 5  
1" = 1'-0"



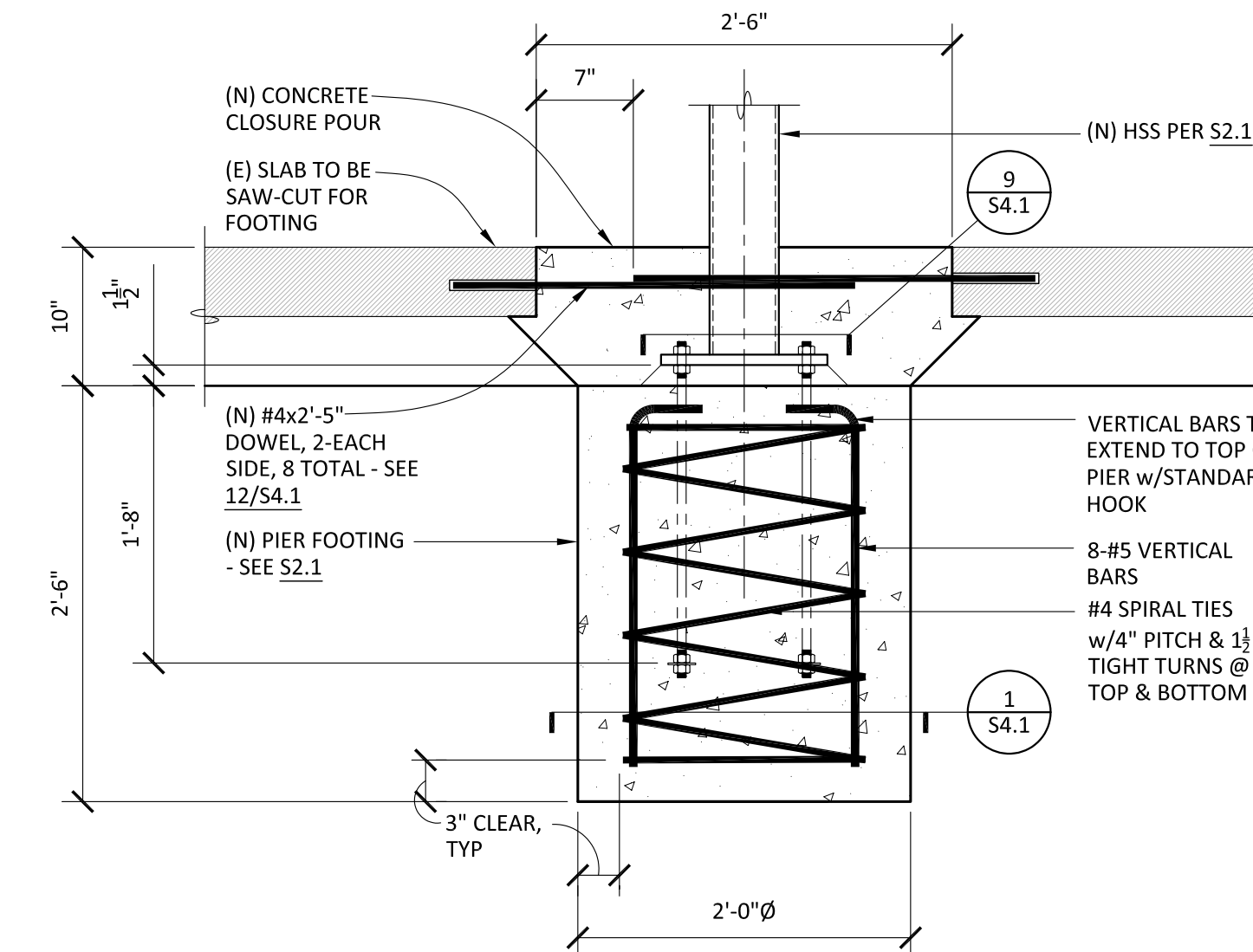
DETAIL 6  
1" = 1'-0"



HOOD SUPPORT FRAME A  
3/4" = 1'-0"

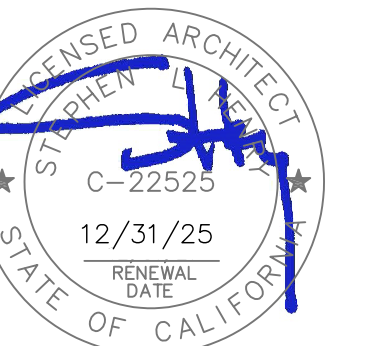


DETAIL 1  
1" = 1'-0"



DETAIL 2  
1" = 1'-0"

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CULINARY LAB  
VENTURE ACADEMY

DETAILS

CONSULTANT  
**RW** CONSULTING  
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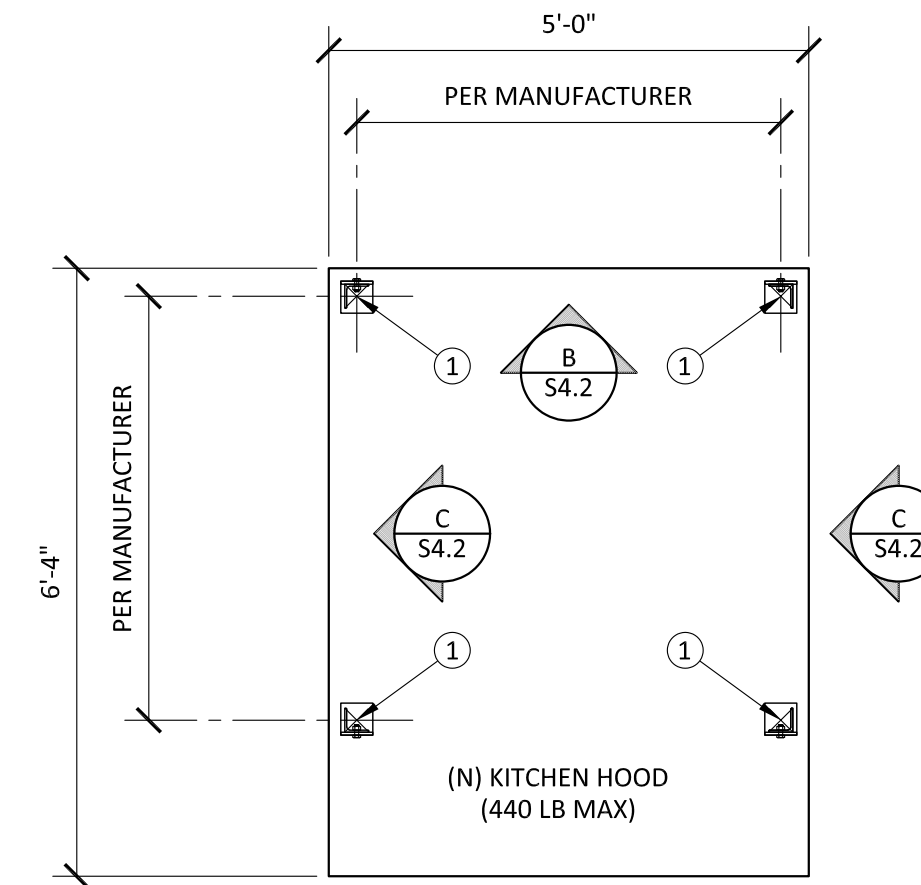
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S4.1

**HOOD PLAN AND ELEVATION KEYNOTES:**

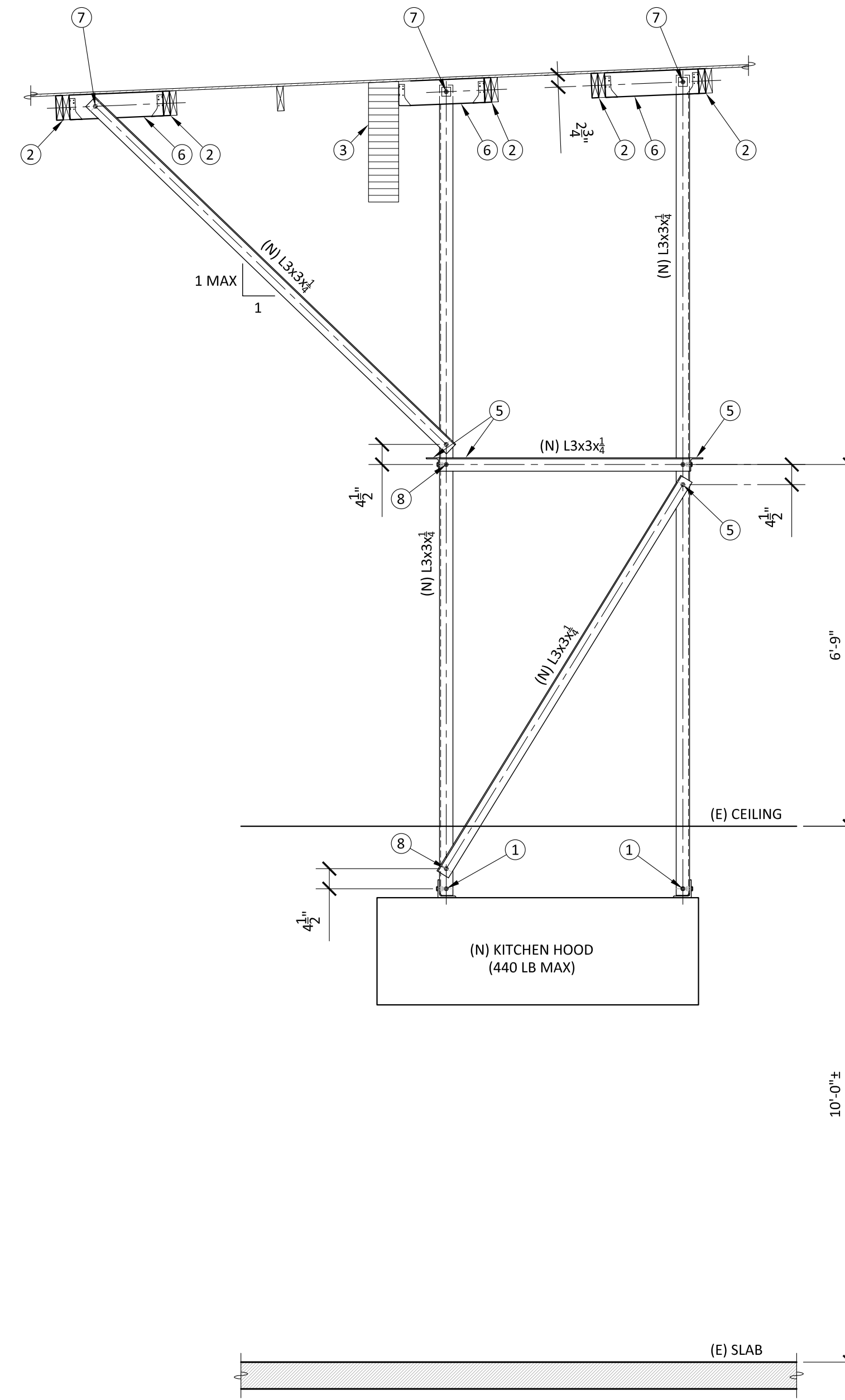
- ① ANCHORAGE OF HOOD SUPPORT STRUCTURE TO HOOD PER FOOD SERVICE DWGS
- ② NEW SISTERED TO EXISTING JOIST PER S3.1
- ③ EXISTING GL BEAM PER S3.1
- ④ EXISTING 4x PURLIN PER S3.1
- ⑤ HORIZONTAL L TYP 4-SIDES
- ⑥ NEW 4x6 BLOCK w/ LUS46 EACH END
- ⑦ NEW 3/8"Ø F1544 GRADE 36 OR A307 THRU-BOLT AT L TO FRAMING - PROVIDE 1/2"x2" STEEL PLATE WASHER AT WOOD MEMBER
- ⑧ NEW 3/8"Ø A325-N BOLT CENTERED ON WIDTH OF L, TYP AT ALL L TO L CONNECTIONS



**ENLARGED HOOD PLAN**

1/2" = 1'-0"

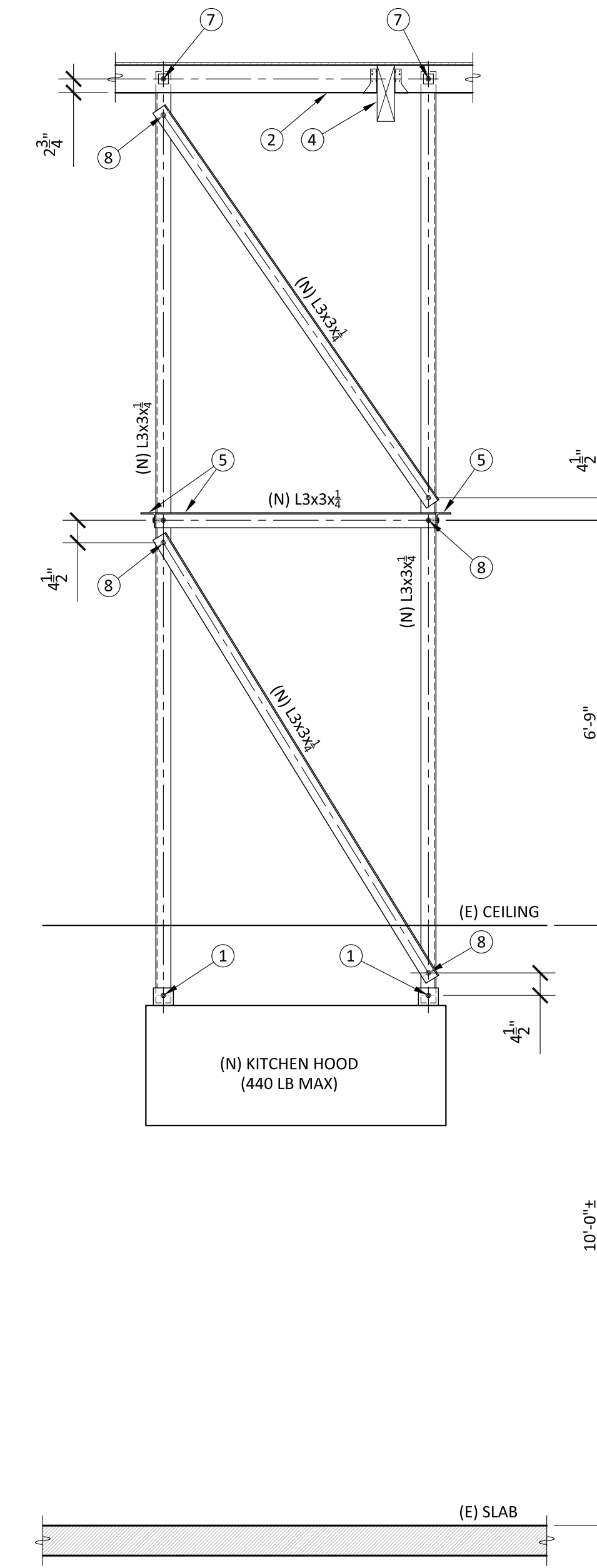
A



**BRACING ELEVATION**

1/2" = 1'-0"

C

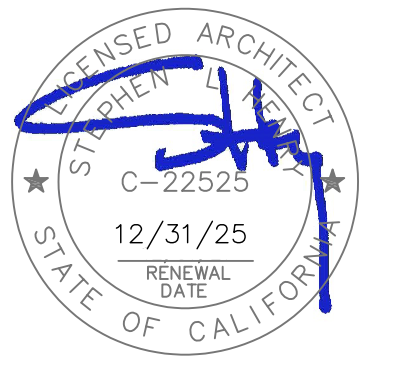


**BRACING ELEVATION**

1/2" = 1'-0"

B

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CULINARY LAB  
 VENTURE ACADEMY

KITCHEN HOOD BRACING  
 PLAN & ELEVATIONS

CONSULTANT  
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**S4.2**

DUCT LEGEND		
SINGLE LINE SYMBOL	DOUBLE LINE SYMBOL	DESCRIPTION
		RECTANGULAR DUCT, WIDTH x DEPTH (PLAN VIEW) DEPTH x WIDTH (SECTION VIEW)
		ACOUSTICALLY LINED RECTANGULAR DUCT - DIMENSIONS ARE OUTSIDE
		MANUAL AIR DAMPER
		RISE OR DROP DUCT IN DIRECTION OF AIR FLOW
		RECTANGULAR TO ROUND TRANSITION OR ROUND TO ROUND TRANSITION, MAX. SLOPE OF 1:3
		RECTANGULAR TO ROUND TRANSITION, MAX. SLOPE OF 1:3
		ELBOW, RECTANGULAR, SMOOTH RADIUS, WITHOUT TURNING VANES
		SQUARE/RECTANGULAR DUCT ELBOW WITH TURNING VANES
		CONVERGING OR DIVERGING TEE, 45° ENTRY, RECTANGULAR MAIN AND BRANCH, WHEN REDUCING MAIN, SIDE OF TAKE OFF OR ENTRY BRANCH TO BE FLAT, OTHER SIDES MAX. SLOPE OF 1:3
		ROUND DUCT TAKE OFF FROM RECTANGULAR VIA SMOOTH CONVERGING BELL MOUTH
		RECTANGULAR DUCT SPLIT MAD'S, THROAT SIZED FOR EQUAL PRESSURE DROP
		FOR CONCEALED DUCT: DROP TO DIFFUSER SHALL BE FULL SIZE OF DIFFUSER NECK, FOR EXPOSED DUCT: DROP SHALL BE FULL SIZE OF OD DIFFUSER FRAME, FLANGE FOR MOUNTING DIFFUSER TURNED IN, AIR EXTRACTOR AND EQUALIZER GRID AT CONNECTION TO MAIN.
		SUPPLY AIR, SUPPLY DROP/RISE
		RETURN AIR, RETURN AIR DROP/RISE
		EXHAUST AIR, EXHAUST AIR DROP/RISE
		FLEXIBLE DUCT (ROUND)
		45° REDUCING LATERAL FITTING

MECHANICAL GENERAL NOTES	
1.	ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES, AND INDUSTRY STANDARDS.
2.	VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS, AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
3.	COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS, AND WALLS WITH ARCHITECTURAL/STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
4.	COORDINATE EXACT SIZE AND ROUTING OF DUCTWORK WITH ARCHITECTURAL PLANS, STRUCTURE, AND EQUIPMENT PRIOR TO COMMENCING WORK.
5.	SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES.
6.	FURNISH AND INSTALL MANUAL AIR DAMPERS AT ALL DUCT BRANCH TAKEOFFS TO A SINGLE SUPPLY DIFFUSER.
7.	FLEXIBLE DUCTWORK CONNECTIONS TO CEILING DIFFUSERS ARE LIMITED TO 5' MAXIMUM LENGTH.
8.	ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING, ETC. ARE NEW U.O.N. (SHOWN HEAVY), (E) DUCTWORK, PIPING, ETC. IS SHOWN LIGHT. SEE LEGEND.
9.	(E) DUCTWORK AND ITEMS TO BE REMOVED ARE SHOWN CROSSED (X) OUT, SEE LEGEND. COORDINATE CLOSELY WITH (N) DUCTWORK AND P.O.C.'S SHOWN. ALL OTHER (E) DUCTWORK, ETC. TO REMAIN.
10.	WHERE INLET DUCT DIAMETER AND DIFFUSER NECK SIZE ARE THE SAME (I.E. 9"ø AND 9x9) CONTRACTOR SHALL OVERTSIZE THE SHEET METAL PLENUM TO ACCOMMODATE THE ROUND DUCT CONNECTION.

PIPING, DUCTWORK, & ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE	
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.	
THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON PRE-APPROVED INSTALLATION GUIDE (E.G., HCA OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.	
MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E): MP □ MD □ PP □ E □ OPTION 2: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS MP □ MD □ PP □ E □ OPTION 2: SHALL COMPLY WITH HCAI (OSHDP) PREAPPROVAL (OPM #) # _____ AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.	

HVAC ABBREVIATIONS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
ABC	ABOVE CEILING	KEF	KITCHEN EXHAUST FAN
ABV	ABOVE	KW	KILOWATTS
ACC DR	ACCESS DOOR	LAT	LEAVING AIR TEMPERATURE
ACC P	ACCESS PANEL	LBS	POUNDS
ACU	AIR CONDITIONING UNIT	LD	LOUVERED DOOR
AFF	ABOVE FINISHED FLOOR	LDB	LEAVING DRY BULB
APD	AIR PRESSURE DROP, INCHES WATER COLUMN	LRA	LOCKED ROTOR AMPS
APPROX	APPROXIMATE	LVR	LOUVER
ARCH	ARCHITECTURAL	LWB	LEAVING WET BULB
ATTEN	ATTENUATORS	MAT	MIXED AIR TEMPERATURE
ATV	ACOUSTIC TURNING VANE	MAU	MAKE-UP AIR UNIT
BD	BALANCE DAMPER	MAX	MAXIMUM
BDD	BACK DRAFT DAMPER	MBH	THOUSAND BTUs PER HOUR
BHP	BRAKE HORSE POWER	MCA	MINIMUM CIRCUIT AMPACITY
BLDG	BUILDING	MECH	MECHANICAL
BOD	BOTTOM OF DUCT	MFR	MANUFACTURER
BOR	BOTTOM OF REGISTER	MIN	MINIMUM
BTUH	BRITISH THERMAL UNITS PER HOUR	MOCPP	MAXIMUM OVERCURRENT PROTECTION
CAP	CAPACITY	OA	OUTSIDE AIR
CD	CONDENSATE DRAIN	OAD	OUTSIDE AIR DAMPER
CEF	CEILING EXHAUST FAN	OC	ON CENTER
CFH	CUBIC FEET OF GAS PER HOUR	OD	OUTSIDE DIAMETER
CFM	CUBIC FEET OF AIR FLOW PER MINUTE	OH	OVERHEAD
CLG	CEILING	OV	OUTLET VELOCITY
CLR	CLEAR	PCR	PUMPED CONDENSATE RETURN
CONC	CONCRETE	PD	PRESSURE DROP
COND	CONDENSER	PSI (G) (A)	POUNDS PER SQUARE INCH (GAUGE) (ABSOLUTE)
CONN	CONNECT/CONNECTION	RA	RETURN AIR
CONT	CONTINUATION	RAD	RETURN AIR DAMPER
CONTR	CONTRACTOR	REF	ROOF EXHAUST FAN
D	DAMPER	RPM	REVOLUTIONS PER MINUTE
DIA	DIAMETER	RLA	RATED LOAD AMPS
DL	DOOR LOUVER	RV	RELIEF VENTILATOR
DN	DOWN	SA	SUPPLY AIR
DB	DRY BULB	SAD	SEE ARCHITECTURAL DRAWINGS
DWG	DRAWING	SD	SPLITTER DAMPER
EA	EXHAUST AIR	SEER	SEASONAL ENERGY EFFICIENCY RATING
EAD	EXHAUST AIR DAMPER	SF	SUPPLY FAN
EDB	ENTERING DRY BULB	SM	SHEET METAL
EER	ENERGY EFFICIENCY RATING	SOV	SHUT OFF VALVE
EF	EXHAUST FAN	SP	STATIC PRESSURE
EFF	EFFICIENCY	SPD	STATIC PRESSURE DROP
EH	EXHAUST HOOD	SQ FT	SQUARE FEET
ELEC	ELECTRIC/ELECTRICAL	SO IN	SQUARE INCHES
ENT	ENTERING	SS	STAINLESS STEEL
EQUIP	EQUIPMENT	STRUC	STRUCTURAL
ESP	EXTERNAL STATIC PRESSURE	TA	TO ABOVE
EVAP	EVAPORATOR	TB	TO BELOW
EWB	ENTERING WET BULB	TEMP	TEMPERATURE
EXH	EXHAUST	THK	THICK
f	CUBIC FEET OF AIR FLOW PER MINUTE	TP	TOTAL PRESSURE
F	DEGREES FAHRENHEIT	TSP	TOTAL STATIC PRESSURE
FA	FROM ABOVE	TYP	TYPICAL
FB	FROM BELOW	UCD	UNDERCUT DOOR
FC	FLEXIBLE CONNECTION	UF	UNDERFLOOR
FD	FIRE DAMPER	UG	UNDERGROUND
FIN	FINISH	UON	UNLESS OTHERWISE NOTED
FLA	FULL LOAD AMPS	UTR	UP THROUGH ROOF
FPM	FEET PER MINUTE	VD	VOLUME DAMPER
FSD	FIRE AND SMOKE DAMPER	VF	VENTILATION FAN
FT (')	FOOT OR FEET	VFC	VARIABLE FREQUENCY CONTROLLER
FT <sup>2</sup>	SQUARE FEET	VSD	VARIABLE SPEED DRIVE
FV	FACE VELOCITY	W	WATTS
GA	GAUGE	WALL MTD (R)	WALL MOUNTED (RECESSED)
GALV	GALVANIZED	WB	WET BULB
GI	GALVANIZED IRON	WMS	WIRE MESH SCREEN
HP	HORSE POWER	WP	WORKING PRESSURE
ICF	INSTANTANEOUS CURRENT FLOW	WPD	WATER PRESSURE DROP FEET OF WATER COLUMN
IN, (")	INCH	WT	WEIGHT
IN <sup>2</sup>	SQUARE INCHES		

MEP COMPONENT ANCHORAGE NOTE	
ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:	
1.	ALL PERMANENT EQUIPMENT AND COMPONENTS.
2.	TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. 'PERMANENTLY ATTACHED' SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3.	TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.
THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:	
A.	COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B.	COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTION SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.
THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER'S DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.	

SYMBOLS LEGEND		
SYMBOL	ABBREVIATION	DESCRIPTION
	--	ANCHOR
	--	AUTOMATIC AIR VENT
	--	BALL JOINT
	--	BALL VALVE
	--	BOTTOM CONNECTION
	--	BUTTERFLY VALVE
	BPT	BYPASS TIMER
	--	CHECK VALVE
	DS	DYNAMIC SENSOR
	FD	FIRE DAMPER
	FS	FIRE/SMOKE DAMPER
	--	FLEXIBLE CONNECTOR
	--	FLOW ARROW
	--	FLOW ELEMENT
	FLV	FLOW LIMITING VALVE
	FS	FLOW SWITCH
	GCK	GAGE COCK
	--	GATE VALVE WITH HOSE ADAPTER
	--	GATE VALVE
	--	GLOBE VALVE
	H	HUMIDISTAT
	--	LIMIT OF DEMOLITION
	--	PIPE BREAK
	--	PIPE CAP
	--	PIPE DOWN
	--	PIPE GUIDE
	--	PIPE UP
	--	POINT OF CONNECTION
	--	REDUCER
	SD	SMOKE DAMPER
	SKD	SMOKE DETECTOR
	--	STRAINER
	TS	TEMPERATURE SENSOR
	--	TEST PLUG
	--	THERMOMETER
	T	THERMOSTAT
	--	TWO POSITION CONTROL VALVE
	--	UNION

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**HENRY+ ASSOCIATES** ARCHITECTS

REGISTERED ARCHITECT  
STATE OF CALIFORNIA  
C 22525

CULINARY LAB VENTURE ACADEMY

MECHANICAL LEGENDS AND NOTES

CONSULTANT

REGISTERED PROFESSIONAL MECHANICAL ENGINEER  
STATE OF CALIFORNIA  
EXPIRES 9/30/24

DATE SIGNED: 03/04/2024

PROJECT NO.	REVISIONS	BY
23-34-026		
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M0.1

OF XX SHEETS

## MAKEUP AIR UNIT SCHEDULE

EQUIPMENT TAG	MFR	MODEL NO	CFM	MIN OA (CFM)	ESP (IN WG)	SENS COOLING CAP (MBH)	TOTAL COOLING CAP (MBH)	EVAP		GAS HEATING			ELECTRICAL DATA										REMARKS						
								EDB (F)	EWB (F)	INPUT (MBH)	OUTPUT (MBH)	AFUE (%)	SUPPLY FAN		COMPRESSOR		CONDENSER FAN		COMB FAN FLA	EER	MOUNTING DETAIL	CONTROL DIAGRAM		OPER WT (LBS)					
													HP	FLA	QTY	#1 RLA	#2 RLA	VOLT							PHASE	MCA	MOCP	QTY	COND FAN FLA
MAU-1	IAIRE	UGC-FC12MHA14 8M00A-FGHJLMV Y579	2365	2365	1.0	118	118	105	71	180	148	82	2.4	6.4	2	15.6	15.6	208	3	44.5	60 A	2	1.5	0.5	11	1/M5.1	2/M6.1	1530	1, 2, 3, 4, 5, 6
MAU-2	IAIRE	UGC-FC12MHA14 8M00A-FGHJLMV Y579	2365	2365	1.0	118	118	105	71	180	148	82	2.4	6.4	2	15.6	15.6	208	3	44.5	60 A	2	1.5	0.5	11	1/M5.1	2/M6.1	1530	1, 2, 3, 4, 5, 6
MAU-3	IAIRE	UGC-FC12MHA14 8M00A-FGHJLMV Y579	2365	2365	1.0	118	118	105	71	180	148	82	2.4	6.4	2	15.6	15.6	208	3	44.5	60 A	2	1.5	0.5	11	1/M5.1	2/M6.1	1530	1, 2, 3, 4, 5, 6
MAU-4	IAIRE	UGC-FC08MHA10 3M00A-FGHJLMV Y579	1750	1750	1.0	86	86	105	71	125	103	82	2.4	6.4	2	13.1	13.1	208	3	38.9	50 A	2	1.5	0.5	11.2	1/M5.1	2/M6.1	1425	1, 2, 3, 4, 6
MAU-5	IAIRE	UGC-FC08MHA10 3M00A-FGHJLMV Y579	1680	1680	1.0	86	86	105	71	125	103	82	2.4	6.4	2	13.1	13.1	208	3	38.9	50 A	2	1.5	0.5	11.2	1/M5.1	2/M6.1	1425	1, 2, 3, 4, 6

**MAKEUP AIR UNIT SCHEDULE NOTES:**

- UNITS SELECTED AT 105 DEG F / 71 DEG F WB SUMMER AMBIENT, 30 DEG F WINTER AMBIENT AIR TEMPERATURES. COOLING CAPACITIES SCHEDULED ARE NET SENSIBLE AND NET TOTAL CAPACITIES.
- PROVIDE UNIT WITH EXPANDED METAL CONDENSER COIL GUARDS, HINGED ACCESS DOORS, AND 2" THICK MERV 13 DISPOSABLE PLEATED MEDIA FILTERS.
- PROVIDE UNIT WITH MOTORIZED TWO-POSITION OUTSIDE AIR DAMPER AND OUTSIDE AIR HOOD.
- PROVIDE UNIT WITH "MICROMETL" STRUCTURALLY CALCD 14" TALL STANDARD ROOF CURB.
- AUTOMATIC SHUTDOWN OF HVAC SYSTEM IS NOT REQUIRED PER 2022 CMC, SECTION 608.1, EXCEPTION 2. ALL ROOMS HAVE DIRECT EXIT TO OUTSIDE WITH TRAVEL DISTANCE LESS THAN 100 FEET.
- FOR UNITS WITH NOM. COOLING CAPACITY OF 6 TONS AND LARGER, PROVIDE UNIT WITH FACTORY INSTALLED VFD ON SUPPLY FAN AND MINIMUM 2 STAGE OF MECHANICAL COOLING CAPACITY. SEE SCHEDULE FOR LOW SUPPLY AIRFLOW CFM (66%). SEE CONTROLS FOR SEQUENCE OF OPERATION.

## AIR CONDITIONING UNIT SCHEDULE

EQUIPMENT TAG	MFR	MODEL NO	CFM	MIN OA (CFM)	ESP (IN WG)	SENS COOLING CAP (MBH)	TOTAL COOLING CAP (MBH)	EVAP		GAS HEATING				ELECTRICAL DATA										REMARKS													
								EDB (F)	EWF (F)	INPUT (MBH)		AFUE (%)	SUPPLY FAN		COMPR #1		COMPR #2		CONDENSER FAN		COMB FAN FLA	POWER EXHAUST															
										LOW	HIGH		LOW	HIGH	BHP	FLA	RLA	LRA	RLA	LRA		VOLT	PHASE		MCA	MOCP	QTY	FLA (EACH)	CFM	SP	FLA	MCA	MOCP				
AC-1	CARRIER	48GCDM12A2M5-3A3A0	3500	1050	0.8	93.12	103.98	85	66	120	180	98	148	82	2	6.4	19.6	136	13.7	83	208	3	52	60	1	7.4	0.48	3500	0.5	6.2	7.75	13.95	11.4	1/M5.1	1/M6.1	1590	1, 2, 3, 4, 5, 6

**AIR CONDITIONING UNIT SCHEDULE NOTES:**

- UNITS SELECTED AT 105 DEG F / 71 DEG F WB SUMMER AMBIENT, 30 DEG F WINTER AMBIENT AIR TEMPERATURES. COOLING CAPACITIES SCHEDULED ARE NET SENSIBLE AND NET TOTAL CAPACITIES.
- PROVIDE UNIT WITH EXPANDED METAL CONDENSER COIL GUARDS, HINGED ACCESS DOORS, AND 2" THICK MERV 13 DISPOSABLE PLEATED MEDIA FILTERS.
- PROVIDE UNIT WITH "MICROMETL" 100% MODULATING POWER EXHAUST ECONOMIZER WITH VFD, DIFFERENTIAL PRESSURE TRANSDUCER, ROOM PRESSURE TUBING, AND "BELMO" LF SERIES ACTUATORS. NOTE THAT SEPARATE POWER CONNECTIONS ARE REQUIRED TO THE AC UNIT AND TO THE MODULATING POWER EXHAUST ECONOMIZER. ELECTRICAL LOADS OF EACH DEVICE ARE SCHEDULED. ELECTRICAL ENGINEER SHALL PROVIDE POWER CONNECTIONS, APPROPRIATE CIRCUIT BREAKERS, FEEDERS, AND DISCONNECTS AS REQUIRED BY CODE.
- PROVIDE UNIT WITH "MICROMETL" STRUCTURALLY CALCD 14" TALL STANDARD ROOF CURB.
- INSTALL DUCT SMOKE DETECTOR IN SUPPLY AIR DUCT FOR AUTOMATIC SHUTDOWN OF HVAC SYSTEM UPON SENSING SMOKE. PROVIDED, POWERED, AND INTERLOCKED WITH FIRE ALARM SYSTEM BY DIV 26. INSTALLED AND CONNECTED TO AC UNIT BY DIV 23.
- FOR UNITS WITH NOM COOLING CAPACITY OF 6 TONS AND LARGER, PROVIDE UNIT WITH FACTORY INSTALLED VFD ON SUPPLY FAN AND MINIMUM 2 STAGE OF MECHANICAL COOLING CAPACITY. SEE SCHEDULE FOR LOW SUPPLY AIRFLOW CFM (66%). SEE CONTROLS FOR SEQUENCE OF OPERATION.

## FAN SCHEDULE

EQUIPMENT TAG	MFR	MODEL NO	AREA SERVED	CFM	SP (IN WG)	RPM	BHP	HP	VOLT	PHASE	MOUNTING DETAIL	CONTROL DIAGRAM	OPER WT (LBS)	REMARKS
EF-1	GREENHECK	G-060-VG	JANITOR 158 2	100	0.125	1190	0.01	0.066	110	1	4/M5.1	4/M6.1	20	1, 2, 3
KEF-1	GREENHECK	CUE-180HP-VG	EXHAUST HOOD 4A	2363	1.000	1160	0.5	1	208	1	3/M5.1	3/M6.1	170	4,9
KEF-2	GREENHECK	CUE-180HP-VG	EXHAUST HOOD 4B	2363	1.000	1160	0.5	1	208	1	3/M5.1	3/M6.1	170	5,9
KEF-3	GREENHECK	CUE-180HP-VG	EXHAUST HOOD 4C	2363	1.000	1160	0.5	1	208	1	3/M5.1	3/M6.1	170	6,9
KEF-4	GREENHECK	CUE-160HP-VG	EXHAUST HOOD 33	1750	1.000	1350	0.52	0.75	208	1	3/M5.1	3/M6.1	130	7,9
KEF-5	GREENHECK	CUE-160HP-VG	EXHAUST HOOD 38	1680	1.000	1320	0.5	0.75	208	1	3/M5.1	3/M6.1	130	8,9

**FAN SCHEDULE NOTES:**

- PROVIDE UNIT WITH MANUFACTURER'S BACKDRAFT DAMPER AND BIRD SCREEN.
- PROVIDE UNIT W/ SPEED CONTROLLER.
- INTERLOCK FAN OPERATION W/ ROOM LIGHTS.
- INTERLOCK FAN OPERATION WITH MAU-1.
- INTERLOCK FAN OPERATION WITH MAU-2.
- INTERLOCK FAN OPERATION WITH MAU-3.
- INTERLOCK FAN OPERATION WITH MAU-4.
- INTERLOCK FAN OPERATION WITH MAU-5.
- PROVIDE UNIT WITH BIRD SCREEN, MANUFACTURER'S ROOF CURB, VENTED ROOF CURB EXTENSION, GREASE TRAP, AND CLEAN-OUT PORT.

## AIR TERMINALS SCHEDULE

SYMBOL	DESCRIPTION	TITUS	TUTTLE & BAILEY	METALAIRE	KRUEGER	NAILOR	PRICE	ANEMOSTAT	REMARKS
CDL	MODULAR CORE LAY-IN CEILING DIFFUSER FOR T-BAR CEILING 24X24 PANEL	MCD - BORDER TYPE 3	SQD-LT	9000-6P	1240 FRAME 23	7500-L	-	-	
CDL-2	CEILING SUPPLY WITH 1/2" EGG CRATE CORE IN 24X24 PANEL FOR T-BAR CEILING	MODEL 50 F BORDER TYPE 3	CRE500-LT	CC5S-6	EGC-5 FRAME S22	61 EC-L	-	-	
CEL	CEILING EXHAUST WITH 1/2" EGG CRATE CORE IN 24X24 PANEL FOR T-BAR CEILING	MODEL 50 F BORDER TYPE 3	CRE500-LT	CC5S-6	EGC-5 FRAME S22	61 EC-L	-	-	
CRL	CEILING RETURN WITH 1/2" EGG CRATE CORE IN 24X24 PANEL FOR T-BAR CEILING	MODEL 50 F BORDER TYPE 3	CRE500-LT	CC5S-6	EGC-5 FRAME S22	61 EC-L	-	-	

**AIR TERMINAL SCHEDULE NOTES:**

- ALL SYMBOLS NOTED MAY NOT BE USED. REFER TO PLANS FOR SIZE AND QUANTITY.
- ALL SUPPLY AIR DIFFUSERS ARE 4-WAY BLOW UNLESS SHOWN OTHERWISE.
- FURNISH ALL PRODUCTS OF A SINGLE MANUFACTURER.
- COORDINATE DIFFUSER TYPE WITH REFLECTED CEILING PLAN.
- OPOSED BLADE DAMPERS ARE NOT REQUIRED AT DIFFUSERS, REGISTER, OR GRILLES.
- PROVIDE MANUAL AIR DAMPERS AT EACH BRANCH DUCT TO A SINGLE DIFFUSER, REGISTER, OR GRILLE.
- ALUMINUM REGISTERS FOR SHOWERS AND DAMP AREAS.

### CALIFORNIA ENERGY CODE - ACCEPTANCE TESTING

1. THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ ARCHITECT OF RECORD OR THE OWNER'S AGENT.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT [HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE](https://www.energy.ca.gov/programs-and-topics/programs/acceptance-test-technician-certification-provider-program/acceptance)

THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

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CULINARY LAB  
VENTURE ACADEMY  
MECHANICAL  
SCHEDULES

**CONSULTANT**

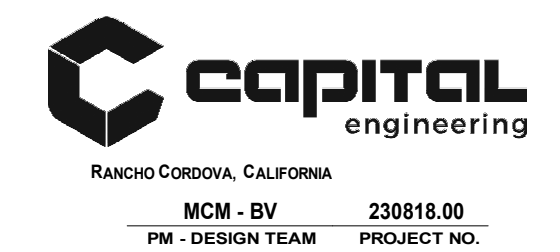


DATE SIGNED: 03/04/2024

PROJECT NO.	REVISIONS	BY
23-34-026		
DATE		
07/06/2023		
DRAWN		
SLH		
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SCALE		
CADFILE		
UPDATED		

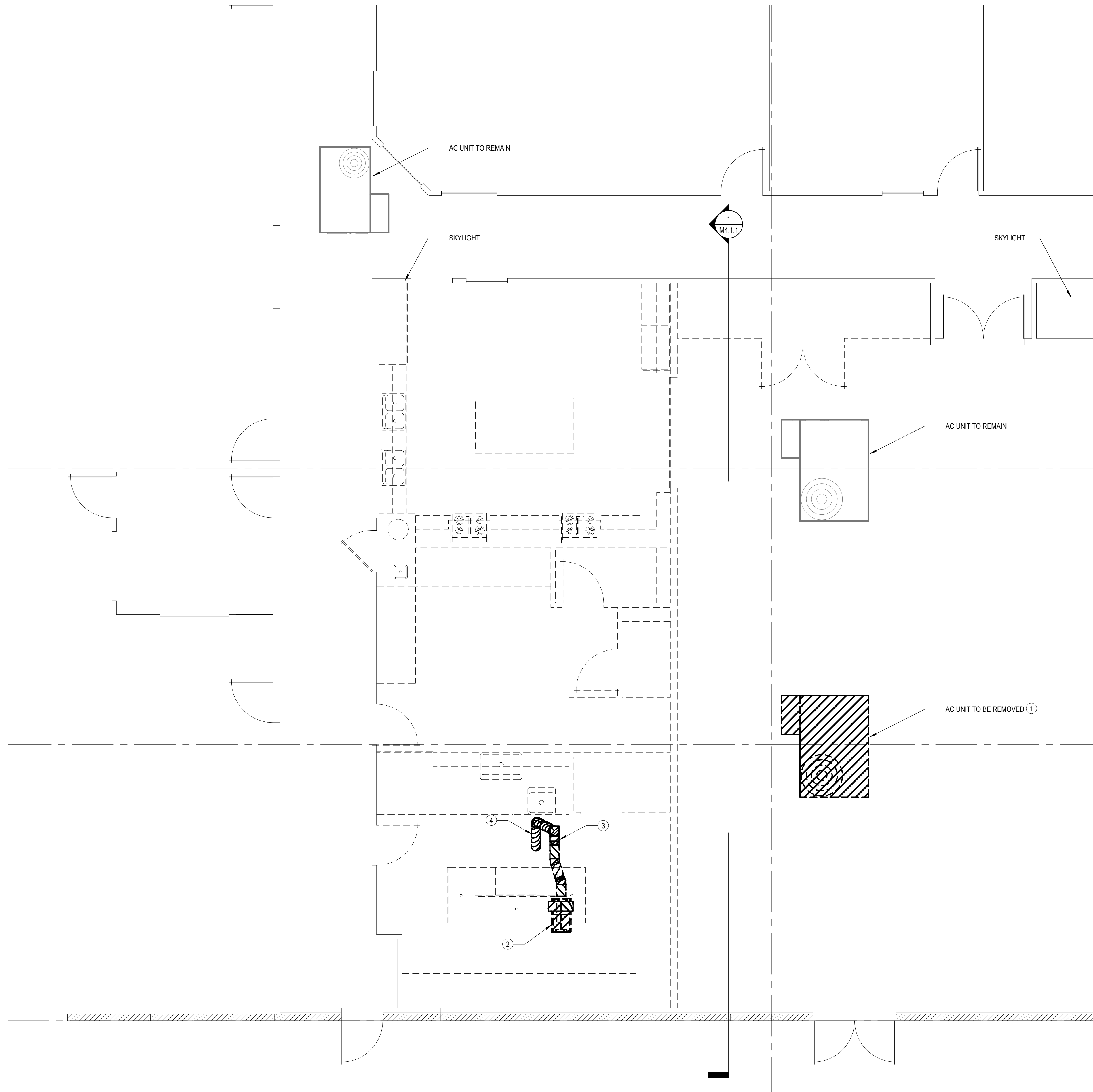
SHEET NO.

M0.2



RANCHO CORDOVA, CALIFORNIA  
MCM - BV 230818.00  
PM - DESIGN TEAM PROJECT NO.

OF XX SHEETS



**KEYNOTES**

- 1 REMOVE AC UNIT. ROOF CURB, GAS PIPING, CD PIPING, AND CONTROLS TO REMAIN.
- 2 UTILITY FAN TO BE REMOVED. ROOF CURB TO REMAIN, FOR NEW CURB CAP SEE M2.1.3.
- 3 DUCT ON ROOF AND DUCT DROP THROUGH ROOF TO BE REMOVED. ROOF CURB TO REMAIN, FOR NEW CURB CAP SEE M2.1.3.
- 4 FUME EXTRACTOR BOOM AND DUCT TO ROOF TO BE REMOVED.

**1 MECHANICAL DEMOLITION FLOOR PLAN**  
 SCALE: 1/4" = 1'-0"



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**CULINARY LAB  
 VENTURE ACADEMY**  
**MECHANICAL  
 DEMOLITION  
 FLOOR PLAN**

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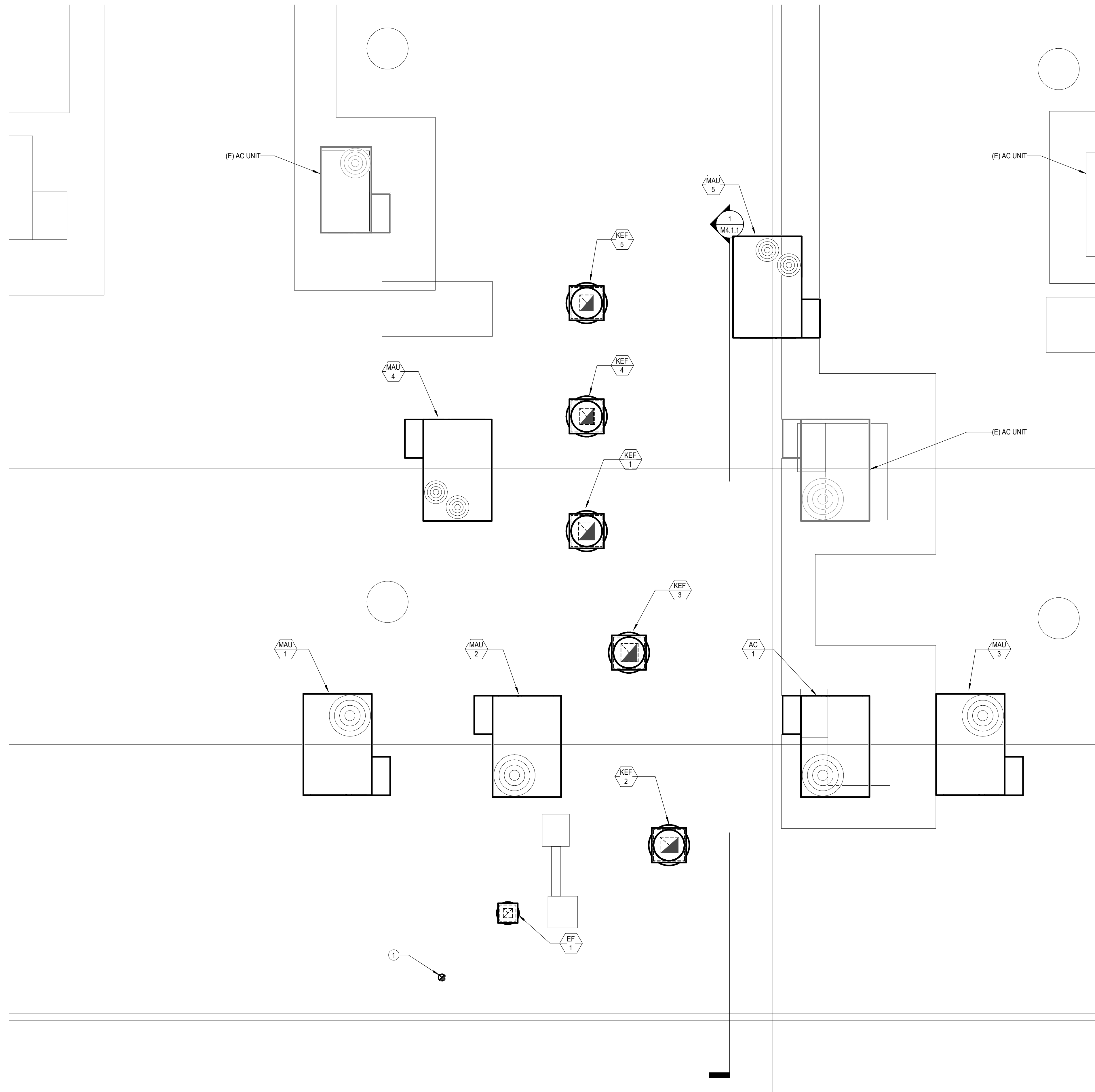
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**M2.1.1**  
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**KEYNOTES**

1. GAS WATER HEATER MANUFACTURER'S OPTIONAL CONCENTRIC VENT KIT THROUGH ROOF. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

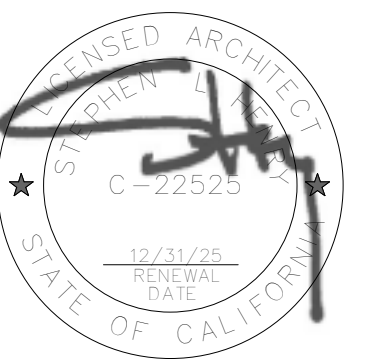
**GENERAL NOTES**

1. AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON SITE UNTIL FINAL STARTUP OF THE HEATING, COOLING, AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED COMPONENT OPENINGS SHALL BE COVERED PER CGBSC 5.504.3.
2. OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10 FT. FROM EXHAUST FAN DISCHARGES, APPLIANCE VENT OUTLETS, AND PLUMBING SYSTEM VENTS.
3. ALL NEW ROOFTOP EQUIPMENT INSTALLED AS A PART OF THIS PROJECT SHALL BE PERMANENTLY LABELED IDENTIFYING THE AREA SERVED PER SPECIFICATION SECTION 23 00 50, 2.6 AND CMC 303.6.

**1** MECHANICAL ROOF PLAN  
 M2.1.3 SCALE: 1/4" = 1'-0"



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 MECHANICAL ROOF  
 PLAN

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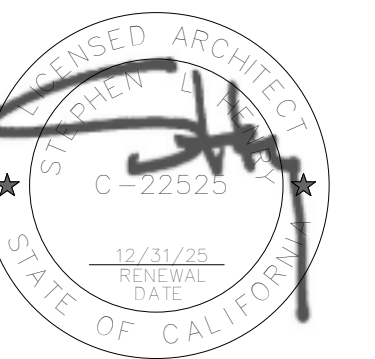
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M2.1.3

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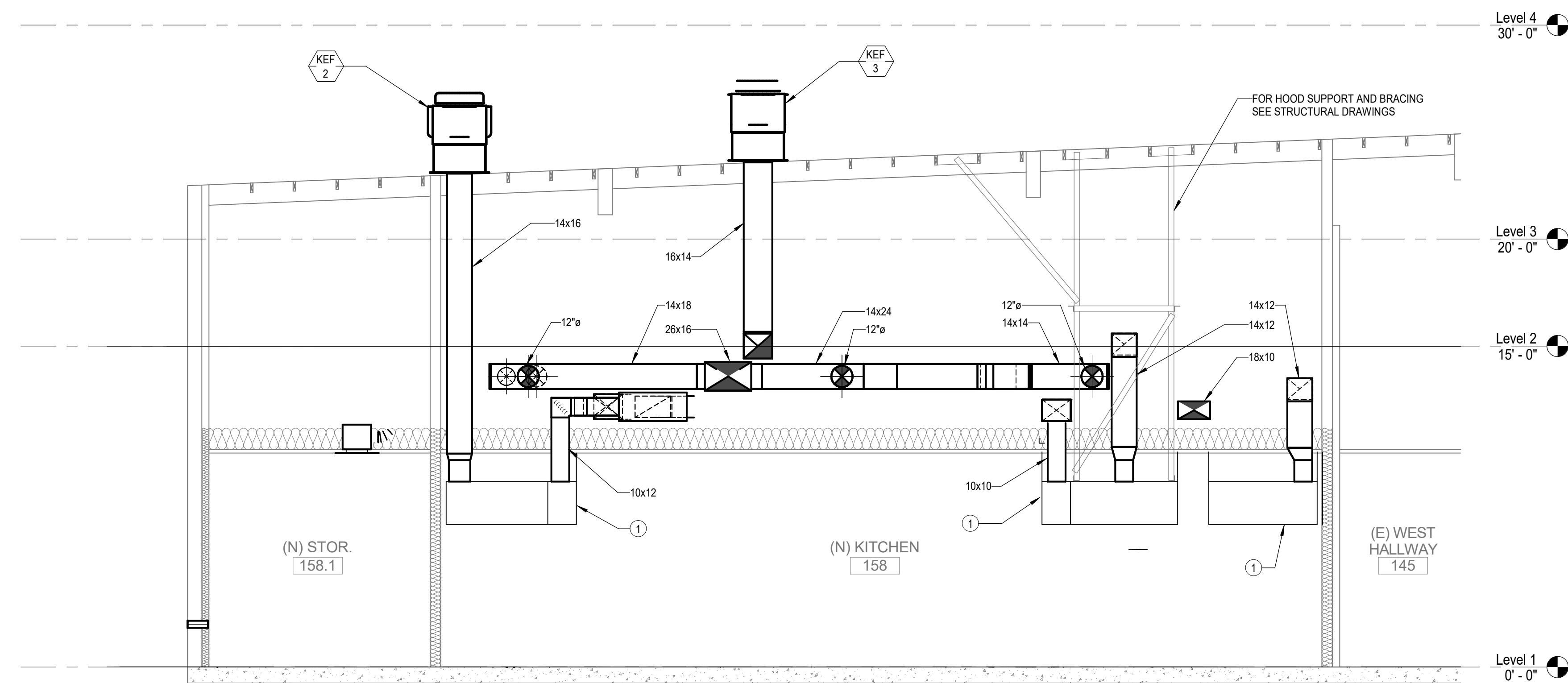
CULINARY LAB  
 VENTURE ACADEMY

MECHANICAL  
 SECTION

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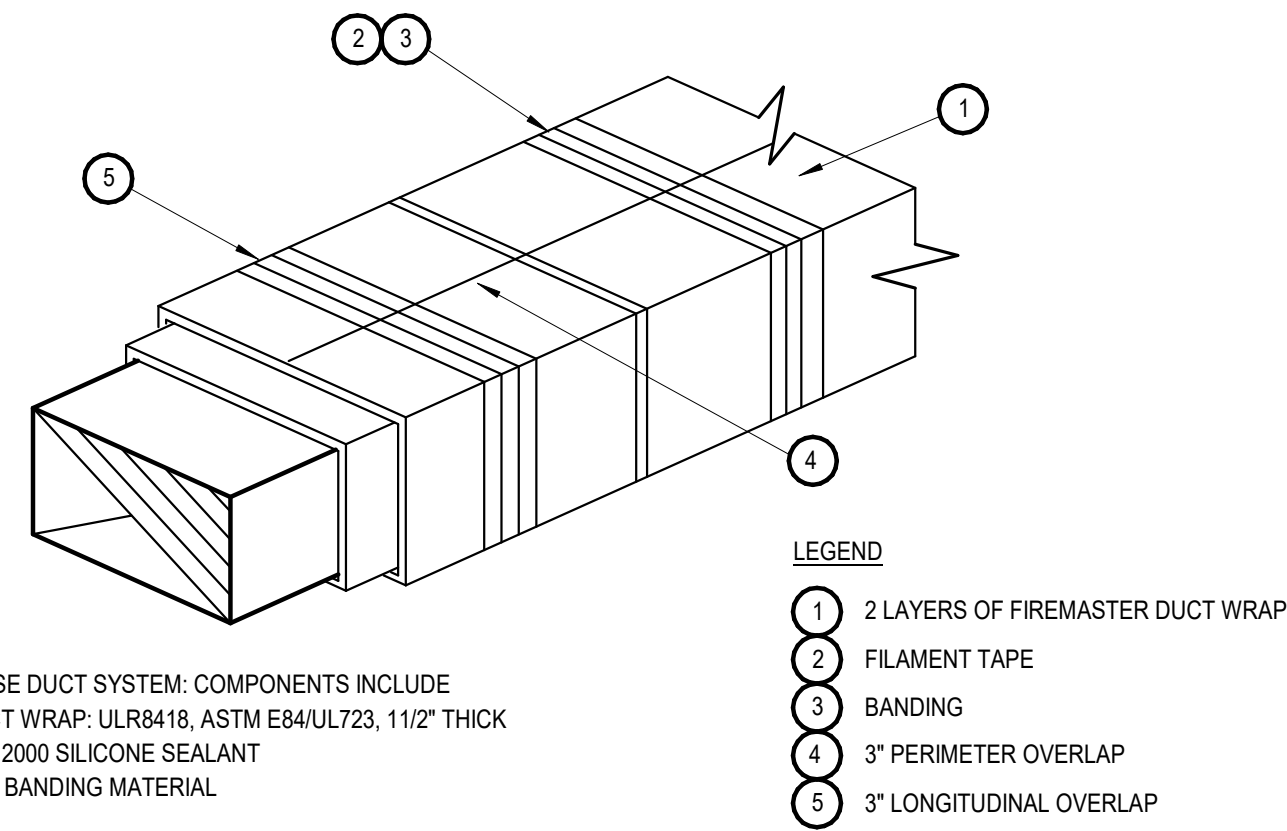
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**1** MECHANICAL SECTION  
 M4.1.1 SCALE: 1/4" = 1'-0"

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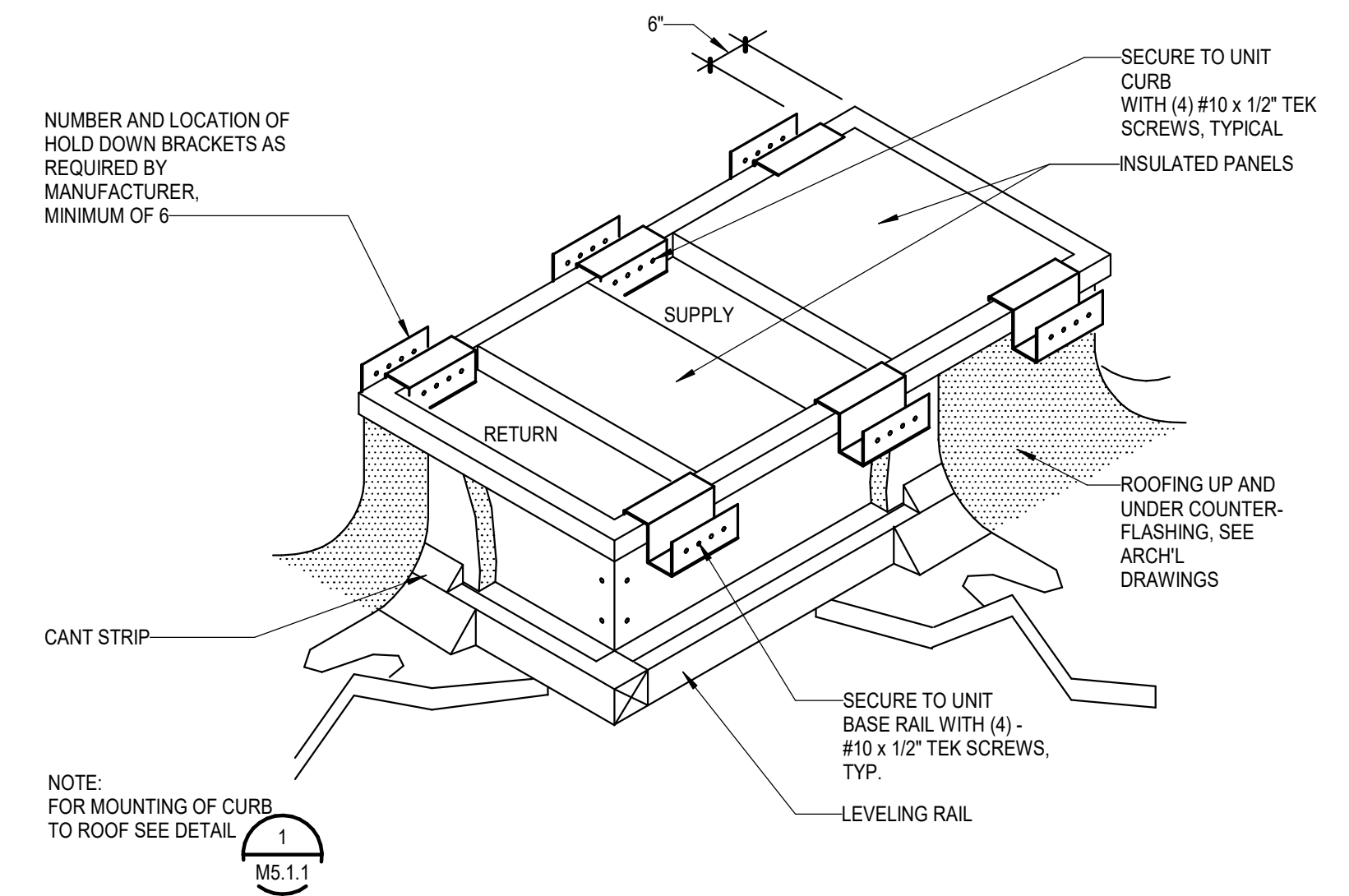
M4.1.1



FIREMASTER GREASE DUCT SYSTEM. COMPONENTS INCLUDE  
 1. FIREMASTER DUCT WRAP: ULR8418, ASTM E84/UL723, 1 1/2\"/>

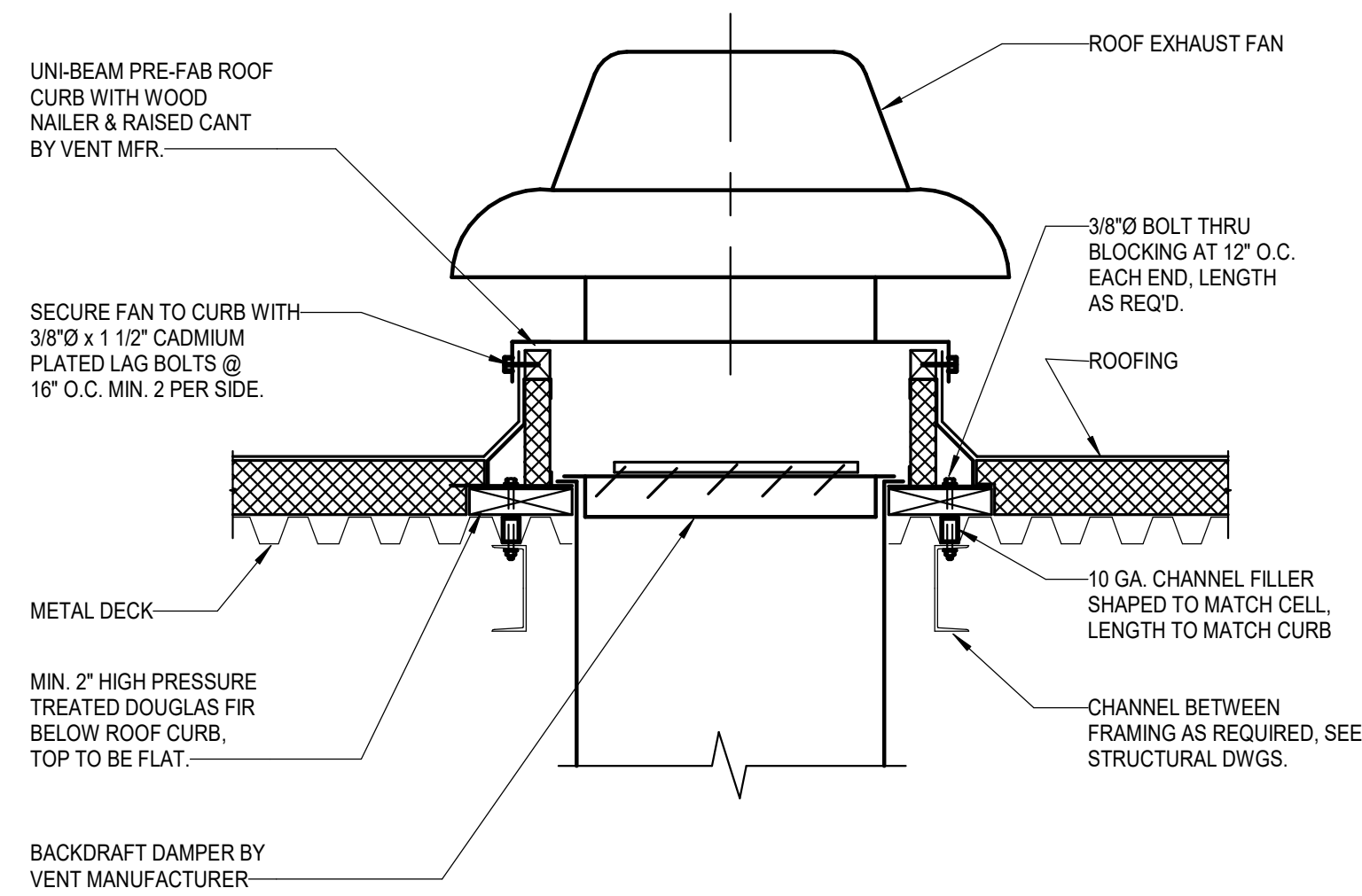
NOTE: DETAIL FOR REFERENCE ONLY. COMPLETE INSTALLATION SHALL BE PER MANUFACTURERS INSTRUCTIONS.

**5 GREASE DUCT WRAP**  
 M5.1 SCALE: NONE

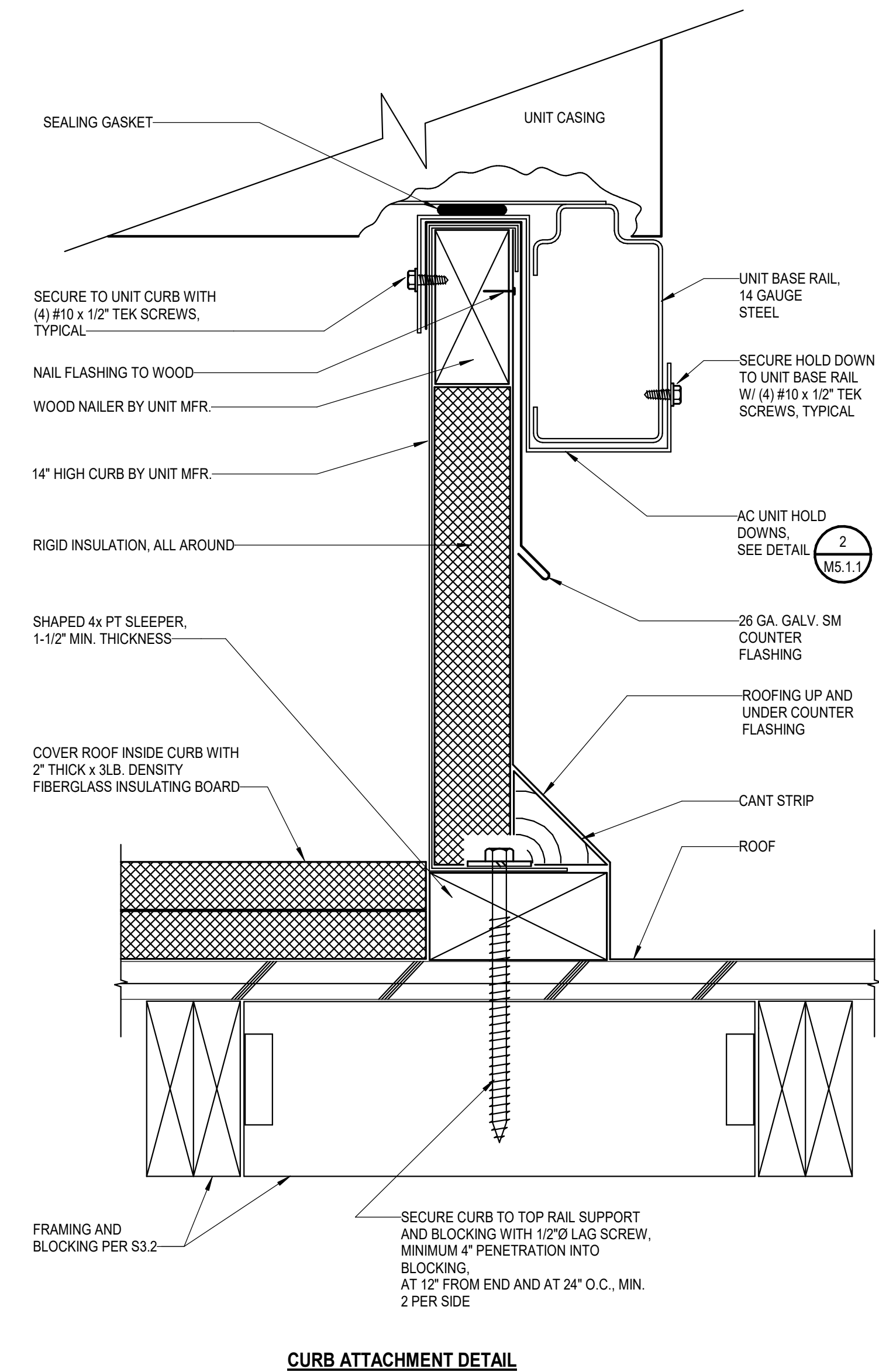


NOTE: FOR MOUNTING OF CURB TO ROOF SEE DETAIL M5.1.1

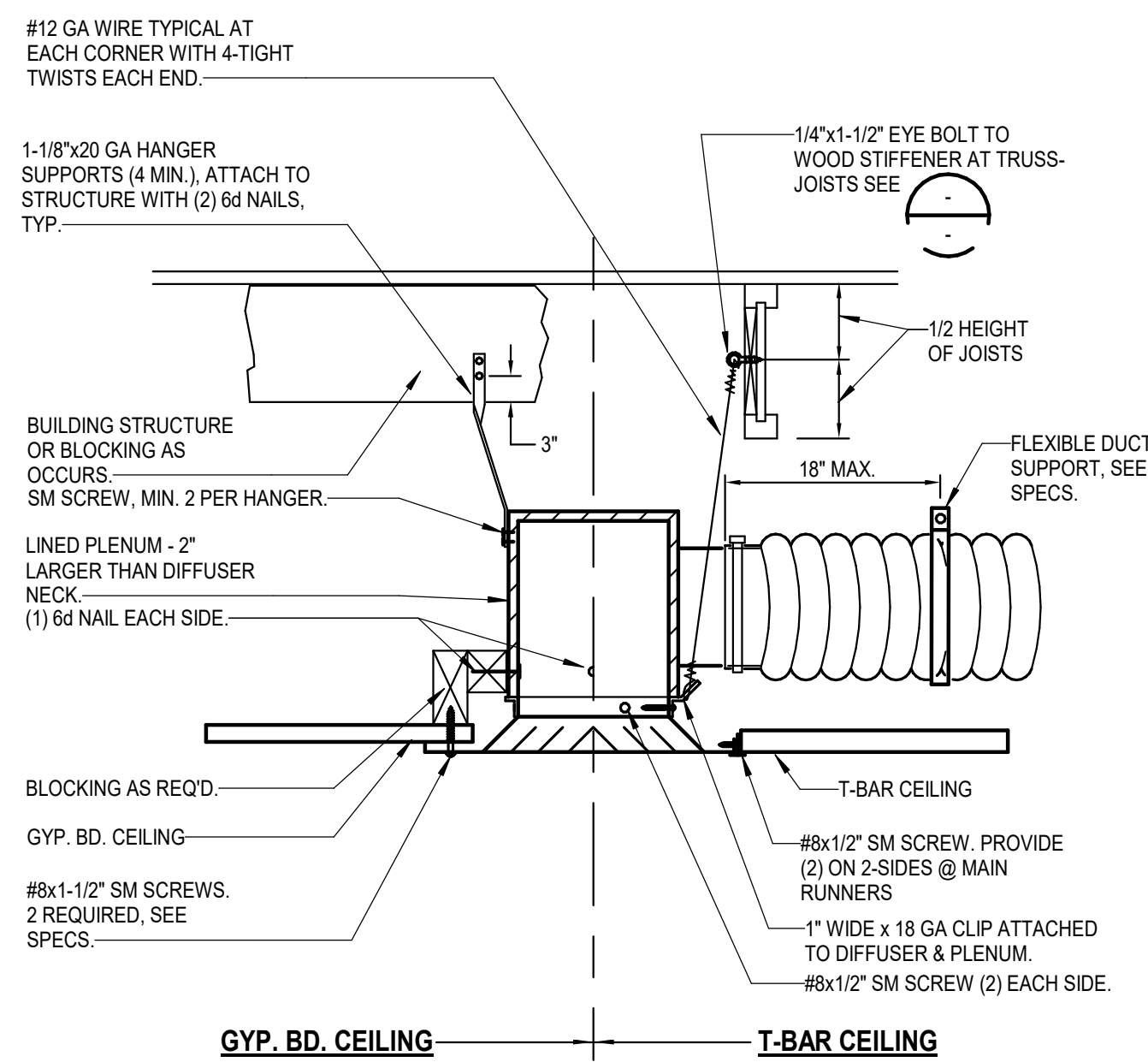
**2 HOLD DOWN AT AC UNIT**  
 M5.1 SCALE: NONE



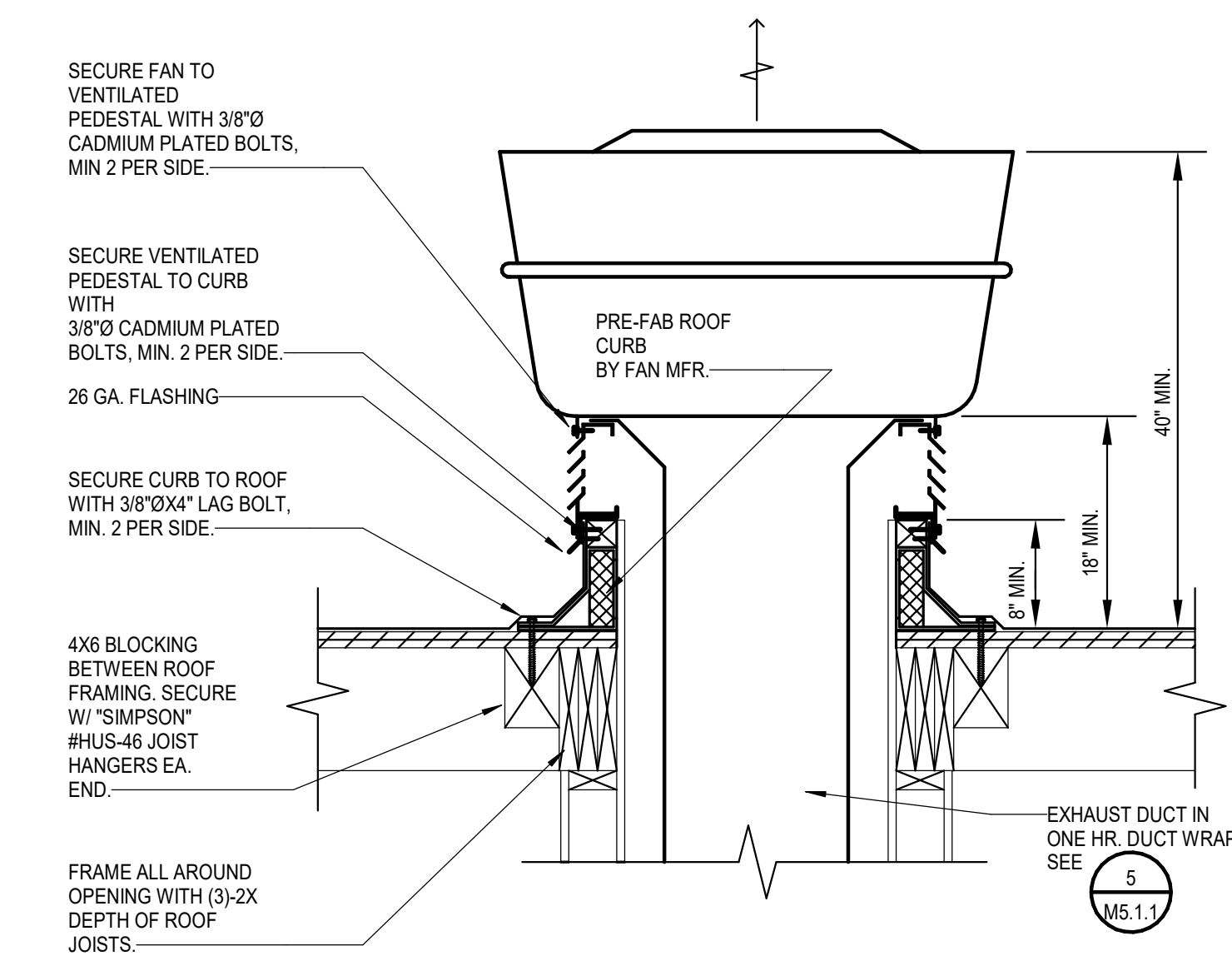
**4 ROOF EXHAUST FAN MOUNTING**  
 M5.1 SCALE: NONE



**1 AC UNIT MOUNTING**  
 M5.1 SCALE: NONE

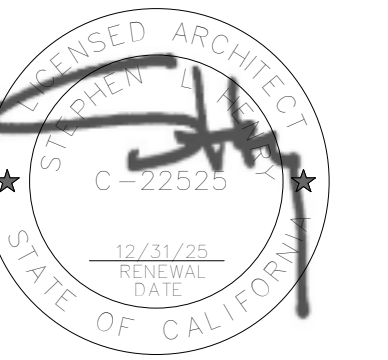


**6 DIFFUSER MOUNTING**  
 M5.1 SCALE: NONE



**3 KEF MOUNTING**  
 M5.1 SCALE: NONE

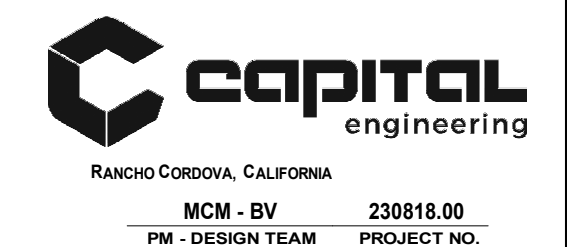
730 Howe Avenue, Suite 450  
 Sacramento, CA 95825  
 Phone: 916.921.2112  
 Fax: 916.921.2212



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 MECHANICAL  
 DETAILS

CONSULTANT  
  
 DATE SIGNED: 03/04/2024

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SHEET NO.		



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MECHANICAL  
 DETAILS

CONSULTANT



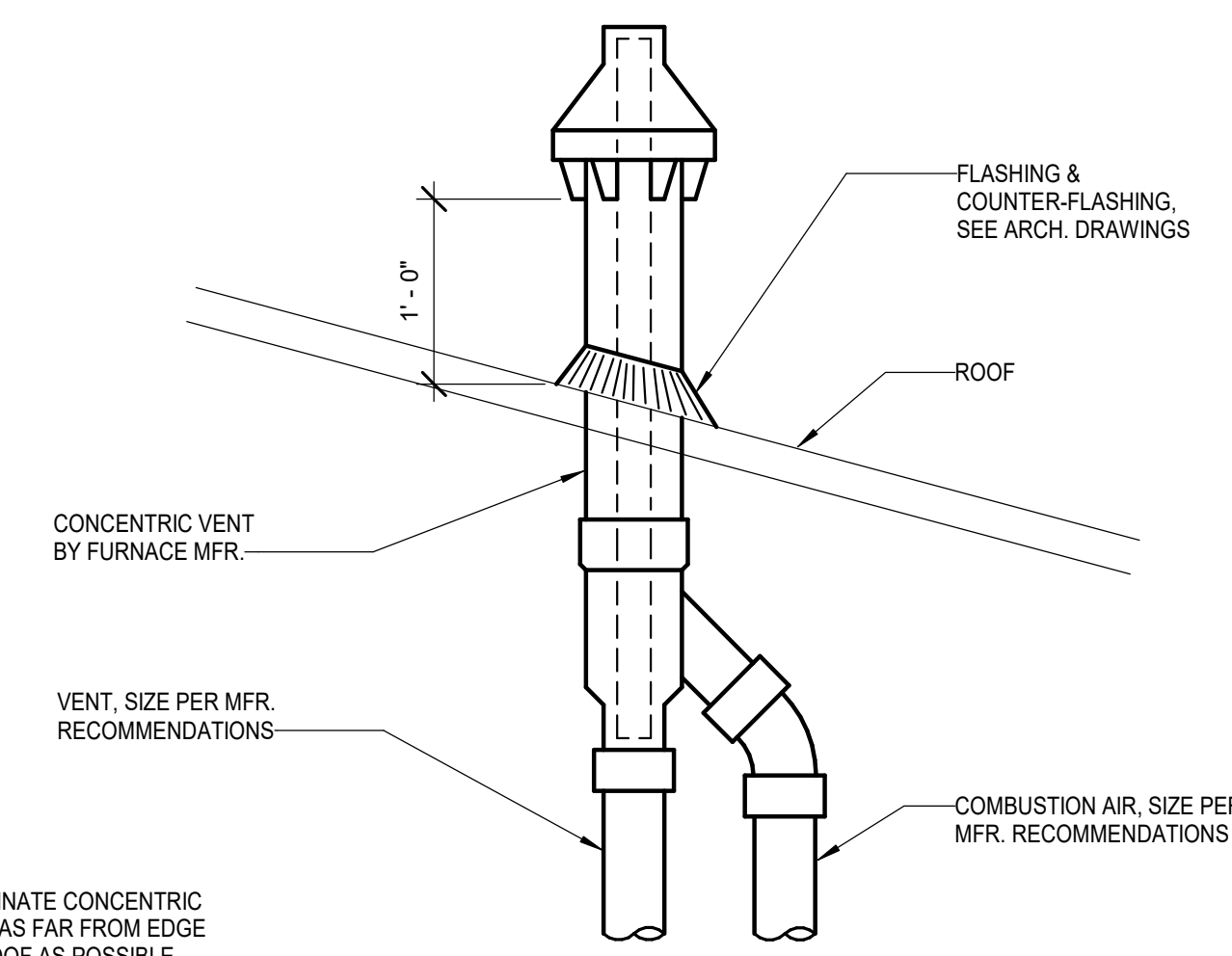
DATE SIGNED: 03/04/2024

PROJECT NO.	REVISIONS	BY
23-34-026		
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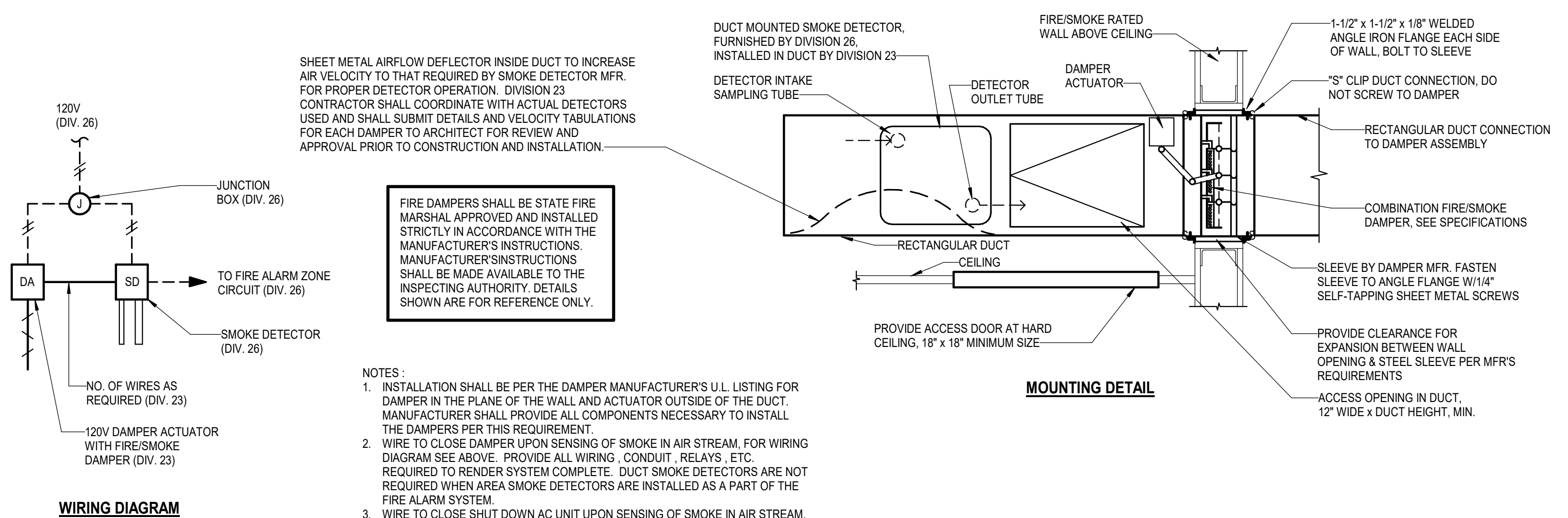
SHEET NO.

M5.2

OF XX SHEETS



**2 VENT AND COMBUSTION AIR PIPING**  
 M5.2 SCALE: NONE



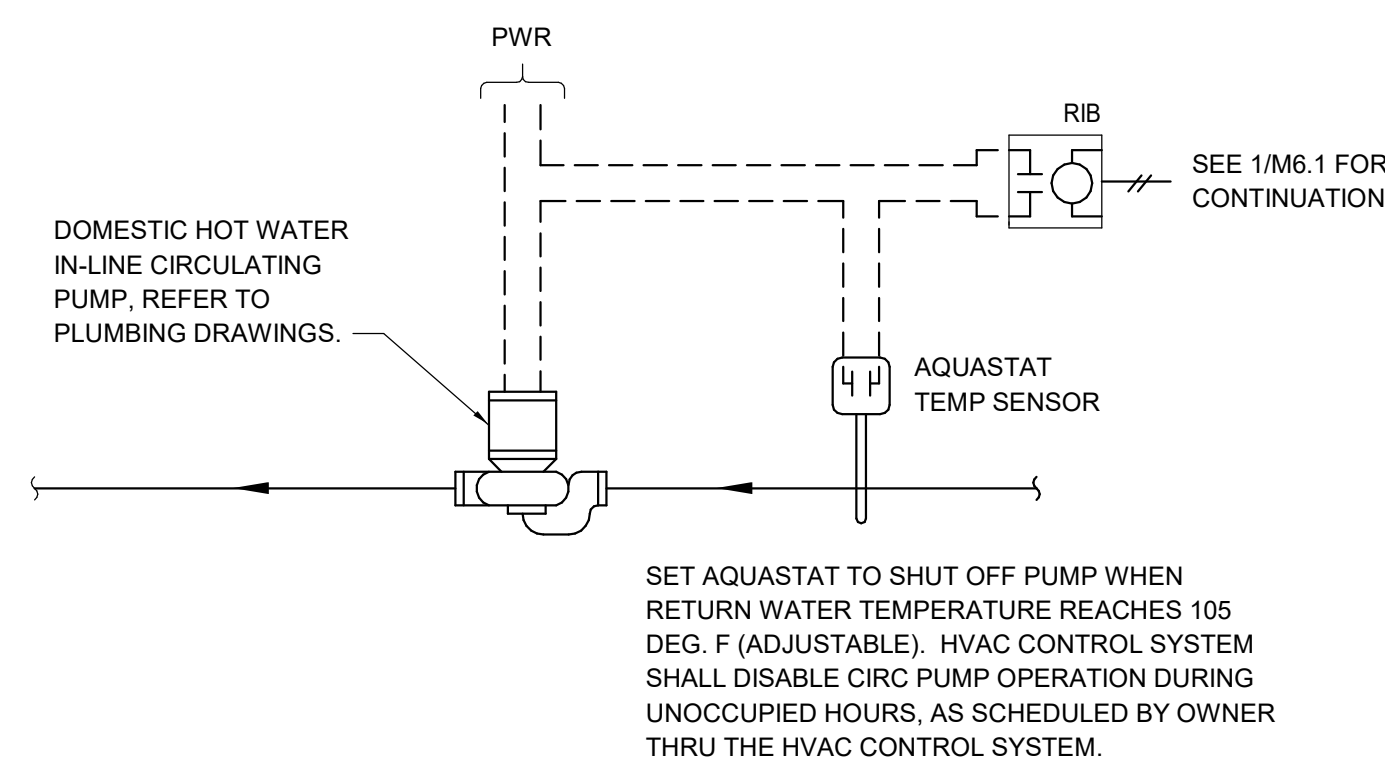
SHEET METAL AIRFLOW DEFLECTOR INSIDE DUCT TO INCREASE AIR VELOCITY TO THAT REQUIRED BY SMOKE DETECTOR MFR. FOR PROPER DETECTOR OPERATION. DIVISION 23 CONTRACTOR SHALL COORDINATE WITH ACTUAL DETECTORS USED AND SHALL SUBMIT DETAILS AND VELOCITY TABULATIONS FOR EACH DAMPER TO ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION AND INSTALLATION.

FIRE DAMPERS SHALL BE STATE FIRE MARSHAL APPROVED AND INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. MANUFACTURER'S INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITY. DETAILS SHOWN ARE FOR REFERENCE ONLY.

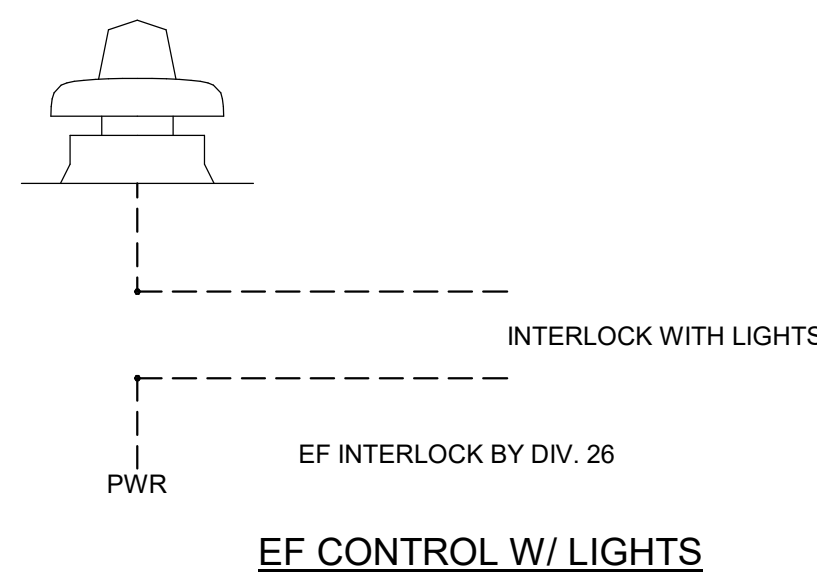
- NOTES:
1. INSTALLATION SHALL BE PER THE DAMPER MANUFACTURER'S U.L. LISTING FOR DAMPER IN THE PLANE OF THE WALL AND ACTUATOR OUTSIDE OF THE DUCT. MANUFACTURER SHALL PROVIDE ALL COMPONENTS NECESSARY TO INSTALL THE DAMPERS PER THIS REQUIREMENT.
  2. WIRE TO CLOSE DAMPER UPON SENSING OF SMOKE IN AIR STREAM. FOR WIRING DIAGRAM SEE ABOVE. PROVIDE ALL WIRING, CONDUIT, RELAYS, ETC. REQUIRED TO RENDER SYSTEM COMPLETE. DUCT SMOKE DETECTORS ARE NOT REQUIRED WHEN AREA SMOKE DETECTORS ARE INSTALLED AS A PART OF THE FIRE ALARM SYSTEM.
  3. WIRE TO CLOSE SHUT DOWN AC UNIT UPON SENSING OF SMOKE IN AIR STREAM.

**1 COMBINATION FIRE/SMOKE DAMPER AT WALL**  
 M5.2 SCALE: NONE

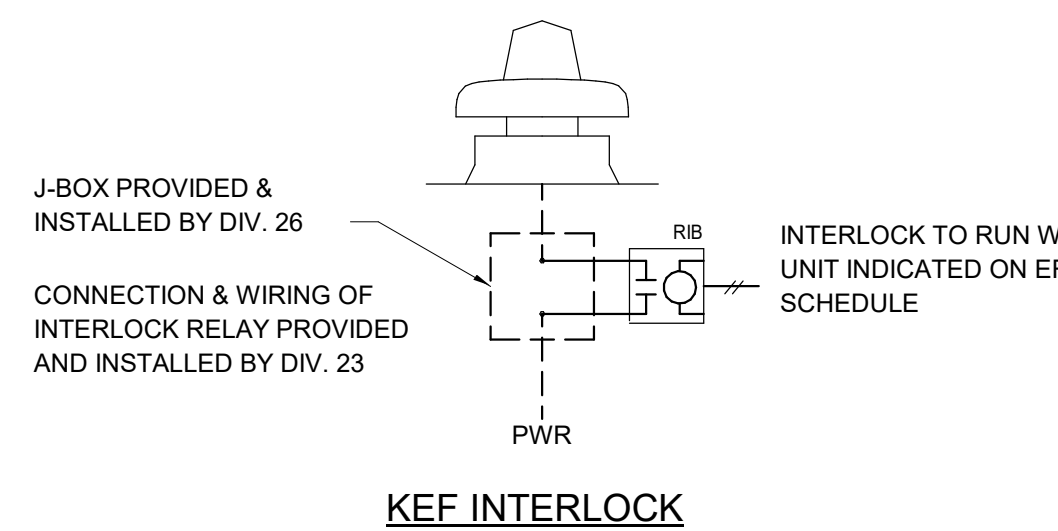




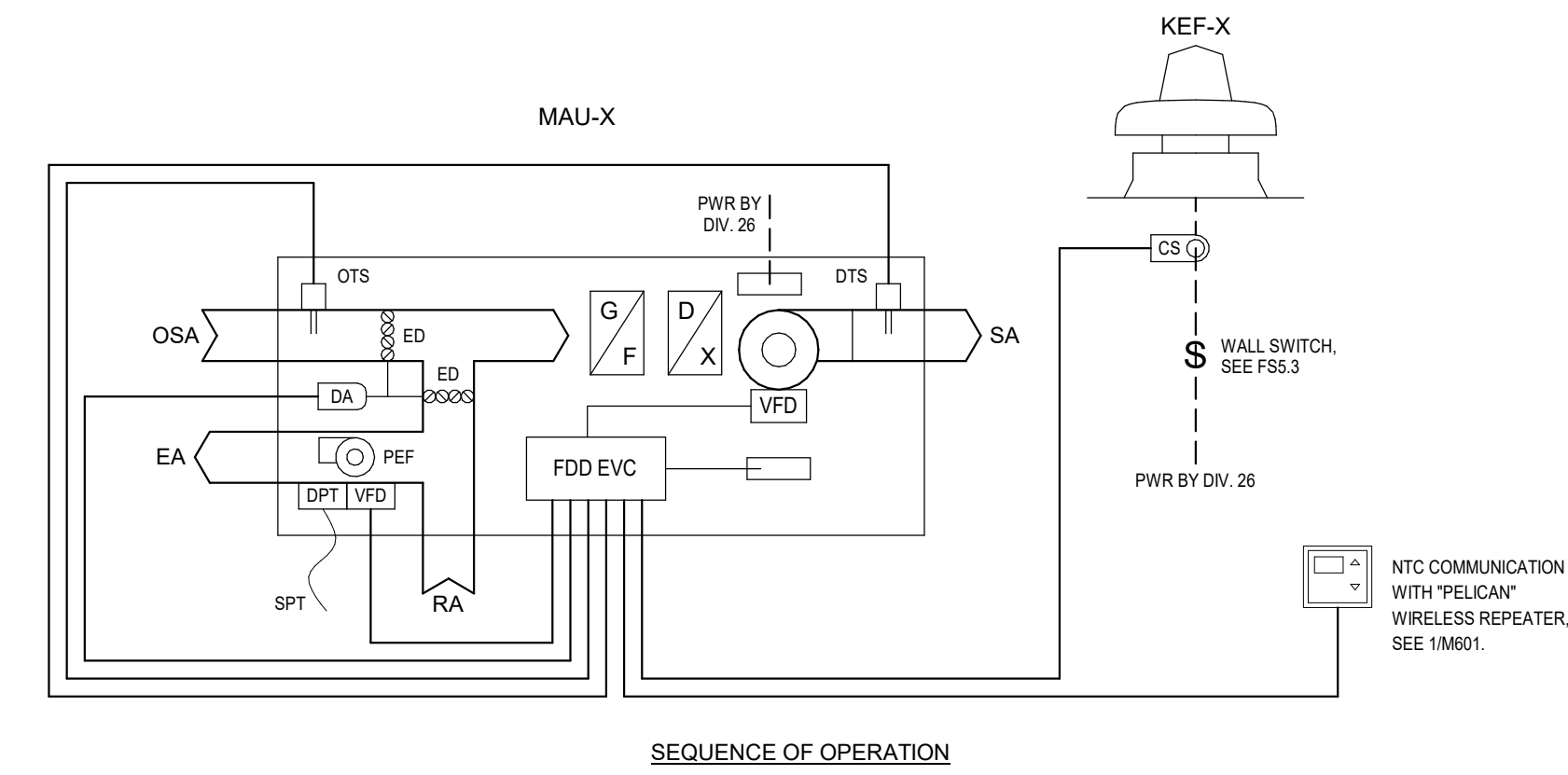
**5** DHW CIRC PUMP CONTROL DIAGRAM  
M6.1 SCALE: NONE



**4** EF W/ LIGHTS  
M6.1 SCALE: NONE



**3** KEF CONTROL DIAGRAM  
M6.1 SCALE: NONE



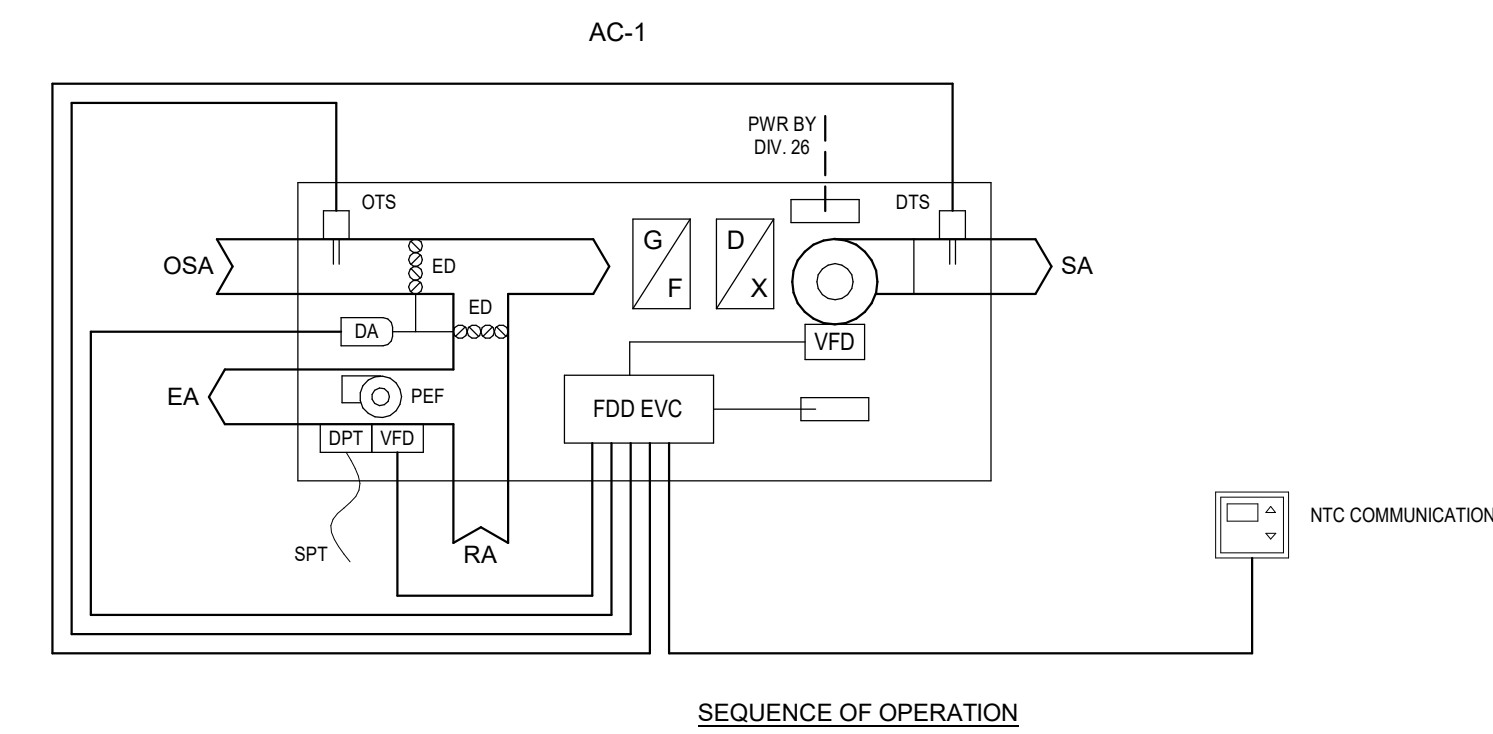
**GENERAL:**  
EACH MAKE UP AIR UNIT WILL BE DIRECTLY CONTROLLED BY ITS OWN DEDICATED EMS (ENERGY MANAGEMENT SYSTEM) UNITARY CONTROLLER. EMS UNITARY CONTROLLER WILL BE CONNECTED TO A WALL MOUNTED ELECTRONIC ZONE TEMPERATURE SENSOR WITH INTEGRAL RELATIVE HUMIDITY SENSOR. ELECTRONIC ZONE TEMPERATURE SENSOR SHALL HAVE ADJUSTMENT FOR ROOM TEMPERATURE. PUSHBUTTON FOR AFTER-HOURS OVERRIDE TIMER CONTROL. WITH USER ADJUSTABLE DURATION. THE AFTER-HOURS OVERRIDE DURATION SHALL HAVE THE ABILITY TO BE LIMITED FROM THE FRONT-END.

**OUTSIDE AIR DAMPER SHALL BE COMMANDED 100% OPEN ANY TIME THE MAU IS IN OPERATION AND SHALL BE COMMANDED 100% CLOSED ANY TIME THE MAU IS NOT IN OPERATION. MAU SHALL BE INTERLOCKED WITH KITCHEN HOOD EXHAUST FANS PER FAN SCHEDULE. SHEE M0.2.**

**HEATING:**  
THE UNITARY CONTROLLER COMPARES THE HEATING SETPOINT WITH THE SPACE TEMPERATURE AND DETERMINES A HEATING CONTROL SIGNAL TO ENGAGE THE GAS FURNACE HEATING SECTION TO MAINTAIN THE SPACE TEMPERATURE SETPOINT.

**COOLING:**  
THE UNITARY CONTROLLER COMPARES THE COOLING SETPOINT WITH THE SPACE TEMPERATURE AND DETERMINES A COOLING SIGNAL TO ENGAGE THE COOLING SECTION TO MAINTAIN THE SPACE TEMPERATURE SETPOINT.

**2** MAU CONTROL DIAGRAM  
M6.1 SCALE: NONE



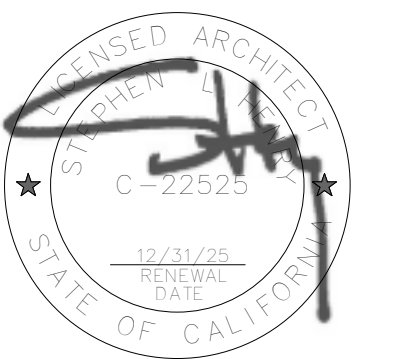
**GENERAL:**  
THE NETWORK THERMOSTAT SHALL BE PROGRAMMED AS DIRECTED BY THE DISTRICT FOR OCCUPIED PERIODS, UNOCCUPIED PERIODS, AND HOLIDAYS. THE NETWORK THERMOSTAT SHALL BE CAPABLE OF RECEIVING A UTILITY COMPANY AUTOMATED DEMAND RESPONSE (ADR) SIGNAL, VIA WIRELESS SIGNAL FROM INTERNET CONNECTED WIRELESS GATEWAY. THE AC UNIT SHALL PROVIDE MINIMUM OUTSIDE AIR VENTILATION FOR 1 HOUR PRIOR TO SCHEDULED OCCUPANCY. DURING PERIODS OF OCCUPANCY, OR IF THE NETWORK THERMOSTAT OVERRIDE BUTTON IS PUSHED, THE SUPPLY FAN VFD SHALL BE ENABLED AND STAGED HEATING OR COOLING SHALL BE PROVIDED TO MAINTAIN ROOM TEMPERATURE SETPOINT. TCC SHALL INSTALL IN EACH AC UNIT THE 'FAULT DETECTION & DIAGNOSTICS' (FDD) ECONOMIZER/VENTILATION CONTROLLER AND TEMPERATURE SENSORS. THE POWER EXHAUST FAN VFD SHALL BE ENABLED WHENEVER THE AC UNIT SUPPLY FAN IS RUNNING. THE POWER EXHAUST DIFFERENTIAL PRESSURE TRANSDUCER SHALL AUTOMATICALLY MODULATE THE POWER EXHAUST FAN VFD TO MAINTAIN A SLIGHT POSITIVE PRESSURE IN THE ROOMS SERVED. CONTRACTOR SHALL COMMISSION THE POWER EXHAUST SYSTEM TO MAINTAIN ROOM PRESSURE BETWEEN 0.01" AND 0.03" POSITIVE UNDER ALL OPERATING CONDITIONS. THE OUTSIDE AIR DAMPER SHALL MODULATE FULLY CLOSED WHENEVER THE AC UNIT IS DISABLED.

**COOLING:**  
ON A CALL FOR COOLING, IF THE OUTSIDE AIR TEMPERATURE IS BELOW THE ECONOMIZER LOCKOUT TEMPERATURE SET AT 75 DEG F (ADJUSTABLE), THE ECONOMIZER DAMPERS SHALL MODULATE AND THE SUPPLY FAN VFD SHALL ADJUST AS NEEDED TO OPERATE AS THE FIRST STAGE OF COOLING. ON AN ADDITIONAL CALL FOR COOLING, IF THE OUTSIDE AIR TEMPERATURE IS ABOVE THE COOLING LOCKOUT TEMPERATURE SET AT 60 DEG F (ADJUSTABLE), STAGES OF DX COOLING SHALL BE ENABLED IN CONJUNCTION WITH THE ECONOMIZER TO MAINTAIN ROOM COOLING SETPOINT (INTEGRATED ECONOMIZER OPERATION). IF ROOM SETPOINT STILL CANNOT BE MAINTAINED, OR IF THE OUTSIDE AIR TEMPERATURE RISES ABOVE THE ECONOMIZER LOCKOUT TEMPERATURE, THE ECONOMIZER DAMPERS SHALL MODULATE TO LOWER MINIMUM POSITION. STAGES OF DX COOLING SHALL BE ENABLED, AND SUPPLY FAN VFD SHALL ADJUST AS NEEDED TO MAINTAIN ROOM COOLING SETPOINT. SUPPLY FAN AIRFLOW SHALL NEVER BE LESS THAN 66% OF FULL AIRFLOW, AS SHOWN IN AC UNIT SCHEDULE ON SHEET M0.2.

**HEATING:**  
ON A CALL FOR HEATING, IF THE OUTSIDE AIR TEMPERATURE IS BELOW THE HEATING LOCKOUT TEMPERATURE SET AT 65 DEG F (ADJUSTABLE), THE ECONOMIZER DAMPERS SHALL MODULATE TO 'LOWER MINIMUM' POSITION. STAGES OF HEATING SHALL BE ENABLED, AND THE SUPPLY FAN VFD SHALL ADJUST AS NEEDED TO MAINTAIN ROOM HEATING SETPOINT. SUPPLY FAN AIRFLOW SHALL NEVER BE LESS THAN 66% OF FULL AIRFLOW, AS SHOWN IN AC UNIT SCHEDULE ON SHEET M0.2.

**1** AC-1 CONTROL DIAGRAM  
M6.1 SCALE: NONE

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CULINARY LAB  
VENTURE ACADEMY

MECHANICAL  
CONTROLS

CONSULTANT

REGISTERED PROFESSIONAL  
MECHANICAL ENGINEER  
STATE OF CALIFORNIA  
EXPIRES 9/30/24

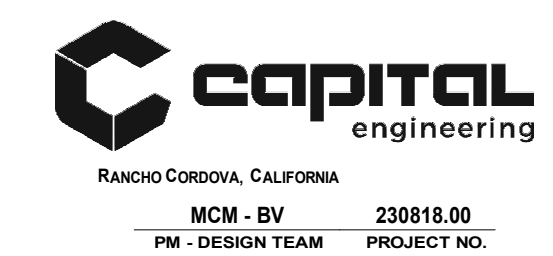
DATE SIGNED: 03/04/2024

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CADFILE		
UPDATED		

SHEET NO.

M6.1

OF XX SHEETS



**A. GENERAL INFORMATION**

01 Project Location (City)	Stockton	04 Total Conditioned Floor Area	1200
02 Climate Zone	12	05 Total Unconditioned Floor Area	
03 Occupancy Types Within Project		06 # of Stories (Habitable Above Grade)	1

**B. PROJECT SCOPE**

02		03			
Air System(s)		Wet System Component(s)		Dry System Component(s)	
<input checked="" type="checkbox"/> Heating Air System	<input type="checkbox"/>	<input type="checkbox"/> Water Economizer	<input type="checkbox"/>	<input checked="" type="checkbox"/> Air Economizer	<input type="checkbox"/>
<input checked="" type="checkbox"/> Cooling Air System	<input type="checkbox"/>	<input type="checkbox"/> Pumps	<input type="checkbox"/>	<input type="checkbox"/> Electric Resistance Heat	<input type="checkbox"/>
<input type="checkbox"/> Mechanical Controls	<input type="checkbox"/>	<input type="checkbox"/> System Flaming	<input type="checkbox"/>	<input type="checkbox"/> Fan Systems	<input type="checkbox"/>
<input checked="" type="checkbox"/> Mechanical Controls (existing to remain, altered or new)	<input type="checkbox"/>	<input type="checkbox"/> Cooling Towers	<input type="checkbox"/>	<input type="checkbox"/> Ductwork (existing to remain, altered or new)	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Chillers	<input type="checkbox"/>	<input type="checkbox"/> Ventilation	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Boilers	<input type="checkbox"/>	<input type="checkbox"/> Zonal Systems/Terminal Boxes	<input type="checkbox"/>

**C. COMPLIANCE RESULTS**

01	02	03	04	05	06	07	08	09								
System Summary	110.1, 110.2, 140.4, 170.2(c)(4)	Pumps 140.4(A), 170.2(c)(4)	Fan/Economizer 140.4(A), 170.2(c)(4)	System Controls 110.2.2, 230.2, 140.4(A), 170.2(c)(4)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(B), 170.2(c)(4)	AND	Distribution 120.3, 140.4(B), 160.2, 160.3	AND	Cooling Towers 110.2(a)(2)	Compliance Results			
01	AND	02	AND	03	AND	04	AND	05	AND	06	AND	07	AND	08	AND	09
Yes	AND	Yes	AND	Yes	AND	Yes	AND	Yes	AND	Yes	AND	Yes	AND	Yes	AND	Yes

**D. EXCEPTIONAL CONDITIONS**  
This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.  
This permit applicant has indicated on Table 1 that ventilation calculations have been attached or included elsewhere on the plans.

**E. ADDITIONAL REMARKS**  
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

**F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)**

01	02	03	04	05	06	07	08	09	10	11
System Name	Quantity	System Status	System Serving	Space Type	Utilizing Recovered Heat					
MAU-4 & MAU-5	2	Single zone	New Addition	All Other Occupancies	<input type="checkbox"/>					
AC-1	1	Single zone	New Addition	All Other Occupancies	<input type="checkbox"/>					

**F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)**

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)(2) and 170.2(c)(4)	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available <sup>1</sup> (140.4(a) and 170.2(c)(4))	Heating Output <sup>2</sup> (Btu/h)	Sensible Heating Output (Btu/h)	Cooling Output <sup>3</sup> (Btu/h)	Load Calculations <sup>4</sup> (Btu/h)	Total Heating Load (Btu/h)	Sensible Cooling Load (Btu/h)	Total Cooling Load (Btu/h)
MAU-1 thru MAU-3	Unitary AC/ Condensers	AC, air-cooled plug (1 phase)	Yes			118	118	118		118
MAU-4 & MAU-5	Unitary AC/ Condensers	AC, air-cooled, split (1 phase)	Yes			86	86	86		86
AC-1	Unitary AC/ Condensers	AC, air-cooled plug (1 phase)	Yes			110	102	110		110

**FOOTNOTES:** Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)(4). Healthcare facilities are exempt.  
<sup>1</sup> It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.  
<sup>2</sup> Equipment is heating only, lower cooling output and load blank. If equipment is cooling only, lower heating output and load blank.  
<sup>3</sup> Authority having jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).

**G. PUMPS**

01	02	03	04	05	06	07	08	09
Name or Item Tag	Site Category (Btu/h)	Rating Condition (1)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2.2, Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2.2, Title 20	Design Efficiency
MAU-1 thru MAU-3	>=65,000 and <135,000		EEER	11.2	11.2	EEER	14.8	14.8
MAU-4 & MAU-5	>=65,000 and <135,000		EEER	11.2	11.2	EEER	14.8	14.8
AC-1	>=65,000 and <135,000		EEER	11.2	11.2	EEER	14.8	14.8

This section does not apply to this project.

**H. FAN SYSTEMS & AIR ECONOMIZERS**

01	02	03	04	05	06	07	08	09	10	11
Fan Name or Item Tag	Fan Type	City	Component	Airflow through Component (ft <sup>3</sup> /min)	Water Usage (gal)	Compliance Allowance (watt/(cfm) x)	Fan Allowance (watt/(cfm) x)	Design Electrical Input Power Method	Motor Nameplate Input Power (kW)	Design Electrical Input Power (kW)
SF	Supply	1	100% outdoor air system	100	0.07		0.06	Manufacturer provided		1.5
			Hydronic/DX cooling coil or heat pump coil	100	0.13		0.06			
			Gas heat	100	0.05		0.06			
			MERV 13-16 Filter upstream of thermal conditioning equipment	100	0.13		0.06			

**H. FAN SYSTEMS & AIR ECONOMIZERS**

01	02	03	04	05	06	07	08	09	10	11
Fan Name or Item Tag	Fan Type	City	Component	Airflow through Component (ft <sup>3</sup> /min)	Water Usage (gal)	Compliance Allowance (watt/(cfm) x)	Fan Allowance (watt/(cfm) x)	Design Electrical Input Power Method	Motor Nameplate Input Power (kW)	Design Electrical Input Power (kW)
Supply Fan Base Allowance (kW)	0.232		Exhaust/Return/Relief/Transfer Fan Base Allowance(kW)	0		Fan System Allowance (kW) <sup>1</sup>	1.11	Fan System Electrical Output (kW)		1.1

**H. EXHAUST AIR HEAT RECOVERY 140.4(a), 170.2(c)(4)**

01	02	03	04	05	06	07	08	09	10	11
Fan Name or Item Tag	Fan Type	City	Component	Airflow through Component (ft <sup>3</sup> /min)	Water Usage (gal)	Compliance Allowance (watt/(cfm) x)	Fan Allowance (watt/(cfm) x)	Design Electrical Input Power Method	Motor Nameplate Input Power (kW)	Design Electrical Input Power (kW)
SF	Supply	1	Hydronic/DX cooling coil or heat pump coil	100	0.13		0.362	Manufacturer provided		2.1
			Economizer Return Damper	100	0.08		0.362			
			Gas heat	100	0.05		0.362			
			MERV 13-16 Filter upstream of thermal conditioning equipment	100	0.13		0.362			

**H. EXHAUST AIR HEAT RECOVERY 140.4(a), 170.2(c)(4)**

01	02	03	04	05	06	07	08	09		
Fan System Name	Qty	Hours of Operation per Year	Design Supply Airflow Rate	Outdoor Airflow	% Outdoor Air or Full Design Airflow	Exemptions to Exhaust Air Heat Recovery per 140.4(a) & 170.2(c)(4)	Exhaust Air Heat Recovery 140.4(a) & 170.2(c)(4)	Type of Heat Recovery Rating	Required Recovery Ratio	Energy Recovery Points
MAU-1 thru MAU-5	5	< 8,000	2,365	2,365	1	No Exemptions Apply	Not Required			
SF MAU-4 & MAU-5	2	< 8,000	1,750	1,750	1	No Exemptions Apply	Not Required			
SF AC-1	1	< 8,000	3,500	3,050	0.3	No Exemptions Apply	Not Required			

**I. SYSTEM CONTROLS**

01	02	03	04	05	06	07	08	09	
System Name	System Zoning	Conditioned Floor Area (ft <sup>2</sup> )	Thermostats Being Served (110.2(b) & (c), 120.2(a) & 160.3(a)(2))	Shut-Off Controls (120.2(b) & 160.3(a)(2))	Isolation Zone Controls (110.2.130.2(b) & 160.3(a)(2))	Demand Response (110.2.130.2(b) & 160.3(a)(2))	Supply Air Temp. Reset (140.4(f) & 170.2(c)(4))	Window Inlets per 140.4(f) & 170.2(c)(4)	
All HVAC	Single zone	<= 35,000 ft <sup>2</sup>	EMCS	EMCS	EMCS	NA; Servers < 25% ft <sup>2</sup>	EMCS	NA; Single Zone	NA; Alteration Project

**J. TERMINAL BOX CONTROLS**

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area (ft <sup>2</sup> )	Thermostats Being Served (110.2(b) & (c), 120.2(a) & 160.3(a)(2))	Shut-Off Controls (120.2(b) & 160.3(a)(2))	Isolation Zone Controls (110.2.130.2(b) & 160.3(a)(2))	Demand Response (110.2.130.2(b) & 160.3(a)(2))	Supply Air Temp. Reset (140.4(f) & 170.2(c)(4))	Window Inlets per 140.4(f) & 170.2(c)(4)

**K. DISTRIBUTION (DUCTWORK AND PIPING)**

01	02	03	04	05	06	07	08	09
Duct Leakage Testing	All Ducts	MV/ Common Use: Duct leakage testing shall not exceed 0.6 per NA7.5.3 required for these systems?						No

**L. DISTRIBUTION (DUCTWORK AND PIPING)**

01	02	03	04	05	06	07	08	09
Duct Leakage Testing	All Ducts	MV/ Common Use: Duct leakage testing shall not exceed 0.6 per NA7.5.3 required for these systems?						No

**M. COOLING TOWERS**

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area (ft <sup>2</sup> )	Thermostats Being Served (110.2(b) & (c), 120.2(a) & 160.3(a)(2))	Shut-Off Controls (120.2(b) & 160.3(a)(2))	Isolation Zone Controls (110.2.130.2(b) & 160.3(a)(2))	Demand Response (110.2.130.2(b) & 160.3(a)(2))	Supply Air Temp. Reset (140.4(f) & 170.2(c)(4))	Window Inlets per 140.4(f) & 170.2(c)(4)

**N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

01	02	03	04	05	06	07	08	09	10	11
System Name	System Zoning	Conditioned Floor Area (ft <sup>2</sup> )	Thermostats Being Served (110.2(b) & (c), 120.2(a) & 160.3(a)(2))	Shut-Off Controls (120.2(b) & 160.3(a)(2))	Isolation Zone Controls (110.2.130.2(b) & 160.3(a)(2))	Demand Response (110.2.130.2(b) & 160.3(a)(2))	Supply Air Temp. Reset (140.4(f) & 170.2(c)(4))	Window Inlets per 140.4(f) & 170.2(c)(4)		

**O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

01	02	03	04	05	06	07	08	09	10	11
System Name	System Zoning	Conditioned Floor Area (ft <sup>2</sup> )	Thermostats Being Served (110.2(b) & (c), 120.2(a) & 160.3(a)(2))	Shut-Off Controls (120.2(b) & 160.3(a)(2))	Isolation Zone Controls (110.2.130.2(b) & 160.3(a)(2))	Demand Response (110.2.130.2(b) & 160.3(a)(2))	Supply Air Temp. Reset (140.4(f) & 170.2(c)(4))	Window Inlets per 140.4(f) & 170.2(c)(4)		

**P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION**

01	02	03	04	05	06	07	08	09	10	11
System Name	System Zoning	Conditioned Floor Area (ft <sup>2</sup> )	Thermostats Being Served (110.2(b) & (c), 120.2(a) & 160.3(a)(2))	Shut-Off Controls (120.2(b) & 160.3(a)(2))	Isolation Zone Controls (110.2.130.2(b) & 160.3(a)(2))	Demand Response (110.2.130.2(b) & 160.3(a)(2))	Supply Air Temp. Reset (140.4(f) & 170.2(c)(4))	Window Inlets per 140.4(f) & 170.2(c)(4)		

**Q. MANDATORY MEASURES DOCUMENTATION LOCATION**

01	02	03	04	05	06	07	08	09	10	11
System Name	System Zoning	Conditioned Floor Area (ft <sup>2</sup> )	Thermostats Being Served (110.2(b) & (c), 120.2(a) & 160.3(a)(2))	Shut-Off Controls (120.2(b) & 160.3(a)(2))	Isolation Zone Controls (110.2.130.2(b) & 160.3(a)(2))	Demand Response (110.2.130.2(b) & 160.3(a)(2))	Supply Air Temp. Reset (140.4(f) & 170.2(c)(4))	Window Inlets per 140.4(f) & 170.2(c)(4)		

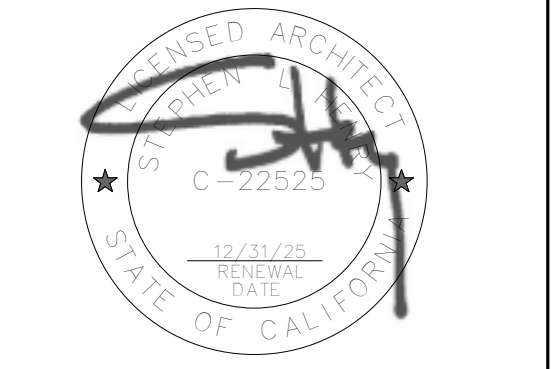
**R. TERMINAL BOX CONTROLS**

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area (ft <sup>2</sup> )	Thermostats Being Served (110.2(b) & (c), 120.2(a) & 160.3(a)(2))	Shut-Off Controls (120.2(b) & 160.3(a)(2))	Isolation Zone Controls (110.2.130.2(b) & 160.3(a)(2))	Demand Response (110.2.130.2(b) & 160.3(a)(2))	Supply Air Temp. Reset (140.4(f) & 170.2(c)(4))	Window Inlets per 140.4(f) & 170.2(c)(4)

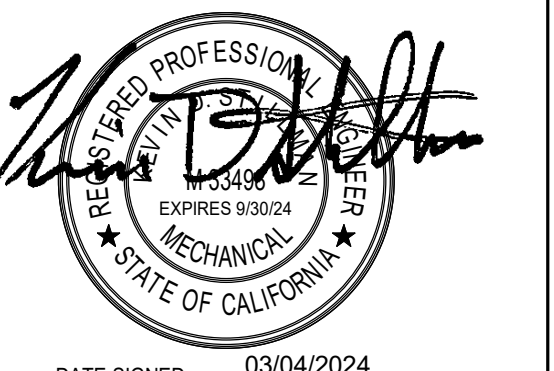
**S. DISTRIBUTION (DUCTWORK AND PIPING)**

01	02	03	04	05	06	07	08	09
Duct Leakage Testing	All Ducts	MV/ Common Use: Duct leakage testing shall not exceed 0.6 per NA7.5.3 required for these systems?						No

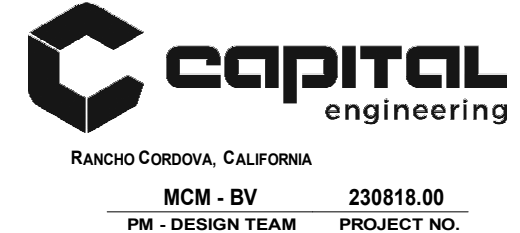
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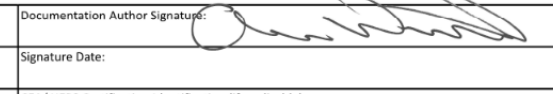
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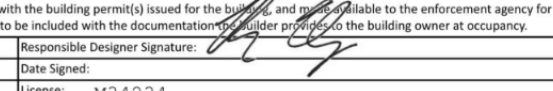


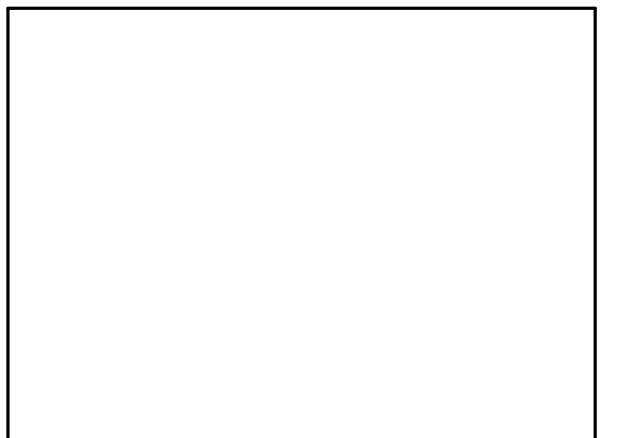


**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**  
 I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Aaron Wintersmith	Documentation Author Signature: 
Company: Capital Engineering	Signature Date:
Address:	CA HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**  
 I certify the following under penalty of perjury under the laws of the State of California:  
 1. The information provided on this Certificate of Compliance is true and correct.  
 2. I am registered under Division 33 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).  
 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 2 and Part 5 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 shall be made available to the enforcement agency for all applicable requirements. I understand that a complete signed copy of this Certificate of Compliance is required to be included with the documentation for the building permit at occupancy.

Responsible Designer Name: Syam C. Gajya	Responsible Designer Signature: 
Company: Capital Engineering	Date Signed:
Address: 11500 Sun Center Dr. #100	Phone: 916.921.2212
City/State/Zip: Rancho Cordova, CA	



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OF XX SHEETS

PLUMBING GENERAL NOTES	
1. ACCESS PANELS SHALL BE PROVIDED AS NECESSARY TO PROPERLY ACCESS THE PLUMBING SYSTEM INCLUDING VALVES, REFER TO SPECIFICATION SECTION 08310.	
2. OFFSET VENT THROUGH ROOFS 10'-0" MINIMUM FROM AIR INTAKES AND 4'-0" FROM OUTSIDE WALLS.	
3. HVAC EQUIPMENT IS SHOWN FOR THE COORDINATION OF UTILITIES ONLY. REFER TO 'M' SHEETS FOR MORE INFORMATION.	
4. THE CONNECTION OF NATURAL GAS LINES TO EQUIPMENT SHALL INCLUDE A LINE SIZE SHUT-OFF VALVE, UNION AND A MINIMUM 6" LONG DIRT LEG WITH ACCESSIBLE END CAP.	
5. THE CONNECTION OF CONDENSATE DRAIN LINES TO HVAC EQUIPMENT SHALL INCLUDE A MINIMUM 4" DEEP "P"-TRAP AND PLUGGED TEE AT ALL OFFSETS.	
6. PROVIDE WATER HAMMER ARRESTORS (WHA) AS INDICATED ON PLUMBING PLANS AND/OR AS DESCRIBED WITHIN DIVISION 22 SPECIFICATIONS. SIZING SHALL BE IN ACCORDANCE WITH PDI STANDARD WH-201.	
7. FOR PIPES PASSING THROUGH, UNDER OR PARALLEL TO BUILDING FOOTINGS, RETAINING WALLS ETC. REFER TO STRUCTURAL DETAILS, 'S' SHEETS, FOR TYPICAL ARRANGEMENT.	
8. CONTRACTOR SHALL FIELD VERIFY ALL POINTS OF CONNECTION TO SITE PIPING (LOCATIONS AND INVERT) PRIOR TO EXCAVATION, FABRICATION AND INSTALLATION OF ASSOCIATED PIPING RUNS. NOTIFY ARCHITECT AND OR ENGINEER IMMEDIATELY IF POINTS OF CONNECTION OR INVERTS ARE DIFFERENT THAN REPRESENTED ON THE DRAWINGS.	
9. OFFSET ALL RISERS AND DROPS TO AVOID PENETRATIONS AT TOP PLATES.	
10. PENETRATION OF PIPES, CONDUIT, ETC., IN WALLS AND/OR FLOORS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE STATE FIRE MARSHAL.	
11. SEAL ALL PIPE PENETRATIONS THRU FLOORS WATERTIGHT.	
12. DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC ONLY. CONTRACTOR SHALL FIELD VERIFY WHERE POSSIBLE, EXACT LOCATIONS, SIZES, AND ELEVATIONS OF ALL ITEMS SHOWN PRIOR TO THE INSTALLATION OF ANY NEW WORK.	
13. THE DRAWINGS ARE NOT INTENDED TO SHOW EVERY OFFSET OR FITTING OR EVERY STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED DURING INSTALLATION OF THE WORK. LOCATION OF ALL ITEMS NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. EXACT LOCATIONS NECESSARY TO SECURE BEST CONDITIONS AND RESULTS MUST BE DETERMINED AT THE JOB SITE AND SHALL HAVE THE APPROVAL OF THE ARCHITECT BEFORE BEING INSTALLED.	
14. ALL VALVES SHOWN SHALL BE FULL LINE SIZE UNLESS OTHERWISE NOTED.	
15. CLOSELY COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO TRENCHING OR INSTALLATION OF NEW. IDENTIFY SIZE AND LOCATIONS OF ALL PENETRATIONS THROUGH FOUNDATIONS, WALLS OR ROOFS PRIOR TO FABRICATION OF ANY SYSTEMS OR ORDERING MATERIALS AFFECTED BY POSSIBLE COORDINATION CONFLICTS.	
16. CONCRETE ANCHORS SHALL BE HILTI, KWIK BOLT TZ 3/8" WITH EMBEDMENT AS PER STRUCTURAL PLANS. ANCHORS SHALL BE TESTED PER IR 19-1, INTERPRETIVE REGULATION FOR EXPANSION ANCHORS IN HARDENED CONCRETE. ANCHOR TEST SHALL BE 988 LBS. TENSION.	
17. PIPING SHALL BE SUPPORTED AND BRACED IN STRICT COMPLIANCE WITH DIVISION 22 SPECIFICATIONS.	
18. ALL NEW SANITARY WASTE PIPING SHOWN SHALL BE SLOPED AT 1/4" PER FOOT MINIMUM UNLESS OTHERWISE NOTED ON PLANS. WHERE SLOPES LESS THAN 1/4" PER FOOT ARE INDICATED, CONTRACTOR SHALL SLOPE NEW PIPING UNIFORMLY BETWEEN UPPER TERMINAL OF PIPE AND THE POINT OF CONNECTION TO THE SITE PIPING (AS INDICATED ON THE CIVIL PLANS) TO ACHIEVE MAXIMUM SLOPE POSSIBLE AND IN NO CASE SHALL THE PIPING BE SLOPED LESS THAN THE MINIMUM INDICATED.	
19. CONCEAL ALL PIPING IN WALL FURRING, PARTITIONS, ETC., EXCEPT AT MECHANICAL ROOMS.	
20. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS AND EXACT LOCATIONS OF PLUMBING FIXTURES.	

PIPING, DUCTWORK, & ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE	
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.	
THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.	
MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):	
MP □ MD □ PP □ E □ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS	
MP □ MD □ PP □ E □ OPTION 2: SHALL COMPLY WITH HCAI (OSHDP) PREAPPROVAL (OPM #) # _____ AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.	

MEP COMPONENT ANCHORAGE NOTE	
ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:	
<ol style="list-style-type: none"> <li>ALL PERMANENT EQUIPMENT AND COMPONENTS.</li> <li>TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. PERMANENTLY ATTACHED SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.</li> <li>TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.</li> </ol>	
THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.	
<ol style="list-style-type: none"> <li>COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.</li> <li>COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTION SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.</li> </ol>	
THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.	

PLUMBING ABBREVIATIONS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
ABC	ABOVE CEILING	KEC	KITCHEN EQUIPMENT CONTRACTOR
ACC DR	ACCESS DOOR	KS	KITCHEN SINK
ACC P	ACCESS PANEL	LV	LAVATORY
AFF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
AFG	ABOVE FINISHED GRADE	MTD	MOUNTED
AFP	ABOVE FINISHED PAVEMENT	(N)	NEW
BEL	BELOW	NC	NORMALLY CLOSED
BFF	BELOW FINISHED FLOOR	NGLP	NATURAL GAS - LOW PRESSURE
BFG	BELOW FINISHED GRADE	NO	NORMALLY OPEN
BFP	BACKFLOW PREVENTER	NTS	NOT TO SCALE
BLDG	BUILDING	OFCl	OWNER FURNISHED, CONTRACTOR INSTALLED
CFF	CAPPED FOR FUTURE	OFOl	OWNER FURNISHED, OWNER INSTALLED
CLG	CEILING	OH	OVERHEAD
CMP	CORRUGATED METAL PIPE	PH	PHASE
COL	COLUMN	PLBG	PLUMBING
CONN	CONNECT/CONNECTION	PO	PLUGGED OUTLET
CONT	CONTINUATION	PRS	PRE-RINSE SINK
CWH	COLD WATER HEADER	PS	POT SINK
(D)	DROP	(R)	RISER
DF	DRINKING FOUNTAIN	REC	RECESSED
DIA	DIAMETER	REQD	REQUIRED
DN	DOWN	REV	REVISION
DW	DRY WELL	RM	ROOM
DW	DISHWASHER	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
DWG	DRAWING	RWL	RAIN WATER LEADER
(E)	EXISTING	SD	STORM DRAIN
EL	ELEVATION	SPEC	SPECIFICATION
ELEC	ELECTRICAL	SS	STAINLESS STEEL/SERVICE SINK
EQUIP	EQUIPMENT	STD	STANDARD
ES	EMERGENCY SHOWER	STRUC	STRUCTURAL
EW	EYE WASH	(TA)	TO ABOVE
FA	FROM ABOVE	(TB)	TO BELOW
FB	FROM BELOW	TD	TRENCH DRAIN
FD	FLOOR DRAIN	TEMP	TEMPERATURE
FFE	FINISHED FLOOR ELEVATION	TOC	TOP OF CONCRETE
FF	FINISHED FLOOR	TS	TAMPER SWITCH
FLR	FLOOR	TYP	TYPICAL
/FT	PER FOOT	UF	UNDER FLOOR
FU	FIXTURE UNIT	UG	UNDERGROUND
GAL	GALLONS	UL	UNDERWRITERS' LABORATORIES
HC	HANDICAPPED	US	UNDER SLAB
HR	HOUR	V	VENT
HS	HAND SINK	VTR	VENT THRU ROOF
HT	HEIGHT	W/	WITH
HTR	HEATER	W/O	WITHOUT
HWH	HOT WATER HEATER	W	WASTE
IE	INVERT ELEVATION		

PLUMBING SYSTEMS LEGEND		
SYMBOL	ABBREVIATION	DESCRIPTION
----	CW	COLD DOMESTIC WATER
----	HW	HOT DOMESTIC WATER
----	HWR	HOT DOMESTIC WATER RETURN
-----CD	CD	CONDENSATE DRAIN
-----GW	GW	GREASE WASTE
-----GWV	GWV	VENT FOR GREASE WASTE
-----IW	IW	INDIRECT WASTE
-----SS	SS	SANITARY SEWER
-----V	V	VENT FOR SANITARY SEWER
-----TPW	TPW	TRAP PRIMER WATER
-----NGLP	NGLP	LOW PRESSURE NATURAL GAS
-----NGMP	NGMP	MEDIUM PRESSURE NATURAL GAS

SYMBOLS LEGEND		
SYMBOL	ABBREVIATION	DESCRIPTION
	---	ANCHOR
	AVN	ANGLE VALVE
	AQ	AQUASTAT
	---	AUTOMATIC AIR VENT
	BFP, BP, DCW	BACKFLOW PREVENTER, REDUCE PRESSURE, DOUBLE CHECK VALVE
	---	BALL VALVE
	CB, RD	CATCH BASIN, ROOF DRAIN
	---	CHECK VALVE
	CP	CIRCULATING PUMP
	CO	CLEANOUT
	---	ECCENTRIC REDUCER
	---	FLEXIBLE CONNECTOR
	FD	FLOOR DRAIN
	FS	FLOOR SINK
	---	FLOW ARROW
	GCK	GAGE COCK
	GSCK, PC	GAS COCK, PLUG COCK
	GPR	GAS PRESSURE REGULATOR
	---	GATE VALVE
	---	GLOBE VALVE
	HD	HOPPER DRAIN
	HB	HOSE BIBB
	---	LIMIT OF DEMOLITION
	---	PIPE BREAK
	---	PIPE CAP
	---	PIPE DOWN
	---	PIPE GUIDE
	---	PIPE UP
	---	POINT OF CONNECTION
	---	PRESSURE RELIEF VALVE
	---	REDUCER
	---	STRAINER
	---	THERMOMETER
	TP	TRAP PRIMER
	---	UNION
	---	VALVE IN RISER/DROP
	---	WALL CLEANOUT
	WHA	WATER HAMMER ARRESTOR



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PLUMBING  
 LEGENDS AND  
 NOTES

CONSULTANT

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### GAS PIPE SIZING NOTES

GAS PIPE SIZING BASED ON TABLE 1215.2 CPC. RUNOUTS TO APPLIANCES LESS THAN 6" SAME SIZE AS APPLIANCE CONNECTION. SOC HEAD OF UNION, WITHIN 3' OF EACH APPLIANCE. SOC AND UNION SHALL BE AGA APPROVED.

TOTAL DEVELOPED LENGTH = 305'

EQUIPMENT	MBH	DISTANCE	PIPE SIZE
AC-1	180	195	1-1/4"
MAU-1	180	225	1-1/4"
MAU-2	180	210	1-1/4"
MAU-3	240	240	1-1/4"
MAU-4	125	190	1"
MAU-5	125	195	1"
FRYER	140	220	1-1/4"
RANGE W/ OVEN BASE	278	220	1-1/2"
RANGE W/ OVEN BASE	278	240	1-1/2"
RANGE/GRIDDLE W/ OVEN BASE	278	240	1-1/2"
RANGE/GRIDDLE W/ OVEN BASE	278	245	1-1/2"
RANGE/GRIDDLE W/ OVEN BASE	278	260	1-1/2"
RANGE/GRIDDLE W/ OVEN BASE	278	265	1-1/2"
RANGE/GRIDDLE W/ OVEN BASE	278	300	1-1/2"
RANGE/GRIDDLE W/ OVEN BASE	278	305	1-1/2"
GWH-1	199.9	295	1-1/4"

#### GAS MAIN SIZING AT 350'

MBH	PIPE SIZE
53	3/4"
99	1"
203	1-1/4"
305	1-1/2"
587	2"
935	2-1/2"
1650	3"
3370	4"

### PLUMBING FIXTURE SCHEDULE

EQUIPMENT TAG	ADA	DESCRIPTION	FIXTURE MANUFACTURER AND MODEL NO.	FAUCET OR VALVE MANUFACTURER AND MODEL NO.	TRIM MANUFACTURER AND MODEL NO.	VENT	WASTE	WASTE	COLD WATER	COLD WATER	HOT WATER	HOT WATER	REMARKS
							BRANCH	OUTLET	BRANCH	OUTLET	BRANCH	OUTLET	
FS-		FLOOR SINK	*ZURN MODEL Z-1751, OR EQUAL, 12 INCH X 12 INCH X 8 INCH DEEP, 14 GA. STYPE 304 STAINLESS STEEL WITH HALF GRATE, SEDIMENT BUCKET, PROVIDE FUSION JOINT P-TRAP TO MATCH PIPING SYSTEM.	PROVIDE SEEPAGE PAN AND CLAMPING COLLAR.		3"	3"	3"	-	-	-	-	COORDINATE AND PROVIDE GRATES AS REQUIRED PER KITCHEN DRAWINGS.
IMB-		ICE MAKER BOX COLD WATER	*GUY GRAY MODEL SS8288 LEAD FREE ICE MAKER HOOK-UP WITH 1/2" FIP INLET AND 3/8" OUTLET.	INTEGRAL	INTEGRAL	-	-	-	3/4"	1/2"	-	-	PROVIDE STAINLESS STEEL BOX AND STAINLESS STEEL FACE PLATE.
SS-1-		SERVICE SINK FLOOR MOUNTED HOT AND COLD WATER	*ACORN TNC-24-SH-SSC, TERRAZZO-WATER, 24"x24"x12" DEEP FLOOR MOUNTED, TERRAZZO, WITH STAINLESS STEEL CAP. UNIT SHALL INCLUDE MODEL K188 HOSE WITH WALL HANGER.	*CHICAGO MODEL 997-CP WALL MOUNTED POLISHED CHROME FAUCET WITH VACUUM BREAKER, ADJUSTABLE TOP BRACE, AND 3/4" MALE THREADED HOSE OUTLET.		2"	3"	3"	3/4"	3/4"	3/4"	3/4"	AS PART OF ROUGH-IN FOR FAUCET, PROVIDE WUITABLE BLOCKING FOR TOP BRACE. PROVIDE CAP WITH FLANGE IN SIDES ADJACENT TO WALLS.
TMV-		THERMOSTATIC MIXING VALVE	*BRADLEY MODEL S89-4000 THERMOSTATIC MIXING VALVE. LOCATE BELOW FIXTURE. SET HOT WATER DISCHARGE TEMPERATURE AT 110 DEGREES FAHRENHEIT.			-	-	-	3/4"	1/2"	3/4"	1/2"	ASSEMBLY SHALL BE CONCEALED IN WALL BEHIND HINGED ACCESS PANEL WITH CYLINDER LOCK.
TP-		TRAP PRIMER	*PRECISION PLUMBING PRODUCTS PRIME TIME TRAP PRIMING ASSEMBLY MODEL PT-6, WITH ATMOSPHERIC VACUUM BREAKER, ADJUSTABLE 24-HOUR TIMER, MANUAL OVERRIDE SWITCH, 3/4" DNPT INLET, 1/2" OUTLETS, FLUSH MOUNTED CABINET, STAINLESS STEEL ACCESS DOOR.			-	-	-	3/4"	1/2"	-	-	120V, 6 WATTS, 16 VA HOLDING, 34 VA IN-RUSH
WB-		WASHMACHINE WASHER BOX COLD AND HOT WATER	*GUY GRAY MODEL SSWB1 STAINLESS STEEL WASHING MACHINE OUTLET BOX.	INTEGRAL	INTEGRAL	1-1/2"	2"	2"	3/4"	1/2"	3/4"	1/2"	WITH HOT AND COLD WATER HOSE BIBBS AND DRAIN CONNECTION.

### GREASE INTERCEPTOR SCHEDULE

EQUIPMENT TAG	MFR	MODEL NO	AREA SERVED	VOLUME (GAL)	CAPACITY (GPM)	LENGTH	HEIGHT	WIDTH	MOUNTING DETAIL	OPER WT (LBS)	REMARKS
GI-1	ZURN	GMC 500 UPC	KITCHEN 158	500	100	8'-0"	4'-7"	5'-2"	8/P5.1	4750	DFU TOTAL = 3 x 2 DFU/FS = 6 DFU, 500 VOLUME PER CPC TABLE 1014.3.6

### GAS FIRED WATER HEATER SCHEDULE

EQUIPMENT TAG	MFR	MODEL NO	LOCATION	STORAGE CAPACITY (GAL)	RECOVERY @ 70F RISE (GAL/HR)	RELIEF VALVE SETTING (PSIG)	INPUT (BTUH)	ELECTRICAL DATA			MOUNTING DETAIL	OPER WT (LBS)	REMARKS
								NOMINAL POWER, EA (HP)	VOLT	PHASE			
GWH-1	AO SMITH	BTH-199	JANITOR 158.2	100	336	0	199900	0	120	1	1/P5.1	1300	

### EXPANSION TANK SCHEDULE

EQUIPMENT TAG	MFR	MODEL NO	LOCATION	MIN VOLUME TANK (GAL)	MIN BLADDER VOLUME (GAL)	MOUNTING DETAIL	OPER WT (LBS)	REMARKS
ET-1	AMTROL	ST-5C-DD	JANITOR 158.2	2.0	0.45	3/P5.1	25	

### GAS PRESSURE REGULATOR SCHEDULE

EQUIPMENT TAG	MFR	MODEL NO	LOCATION	AREA SERVED	MIN. CAPACITY (MBH)	INLET PRESSURE (PSIG)	INLET SIZE (IN)	OUTLET PRESSURE (IN. W.C.)	OUTLET SIZE (IN)	REMARKS
GPR-1	AMERICAN METER CO.	1813B	ROOF	KITCHEN 158	31960	5	1-1/2"	7	1-1/2"	

### CIRCULATING PUMP SCHEDULE

EQUIPMENT TAG	MFR	MODEL NO	LOCATION	FLOW (GPM)	HEAD (FT)	ELECTRICAL DATA			CONTROL DIAGRAM	OPER WT (LBS)	REMARKS
						WATTS	VOLT	PHASE			
CP-1	B&G	NBH-8	JANITOR 158.2	1	7	39	120	1	5/M6.1	9	

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PLUMBING  
SCHEDULES

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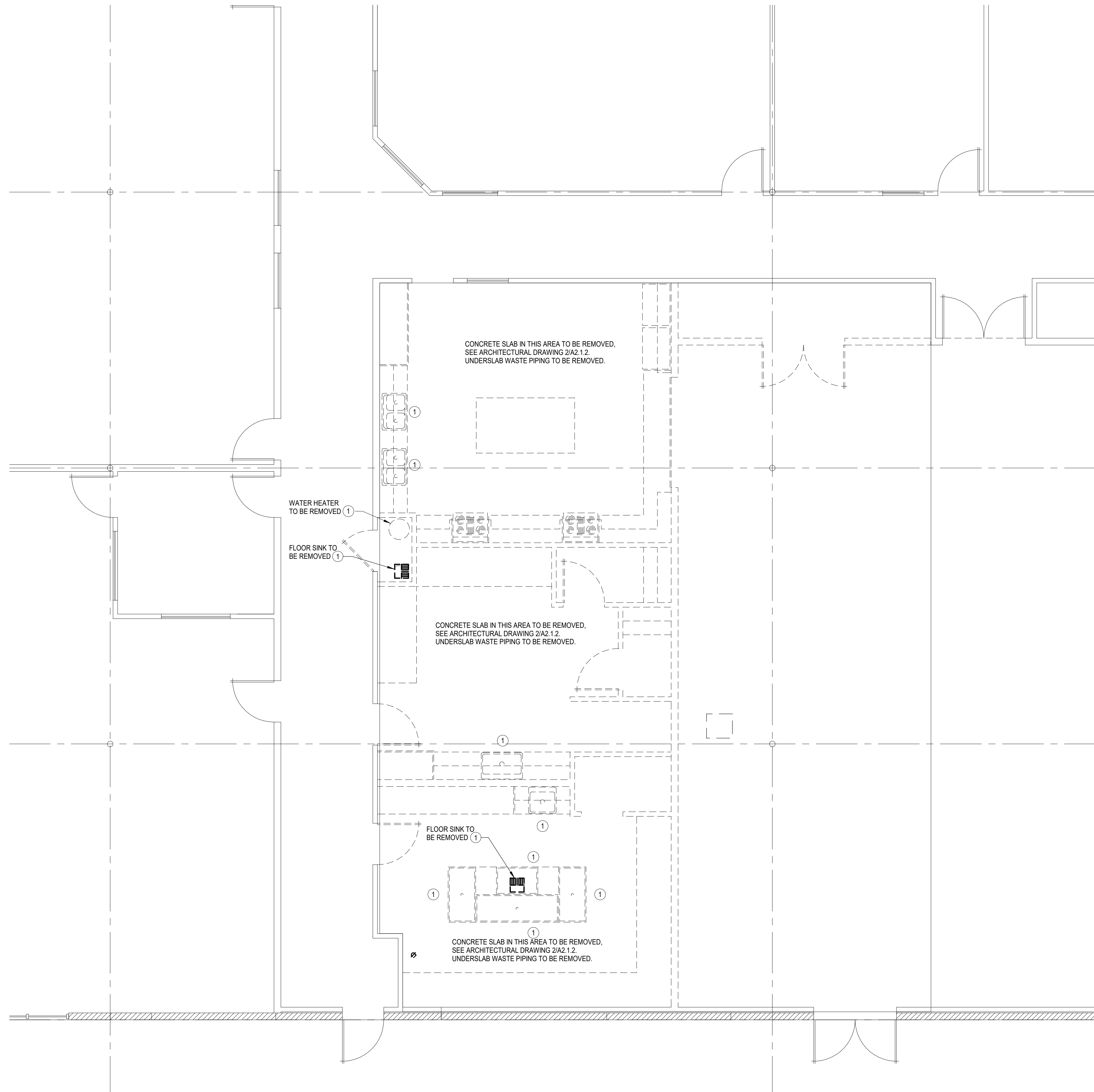
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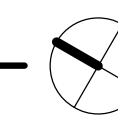


KEYNOTES

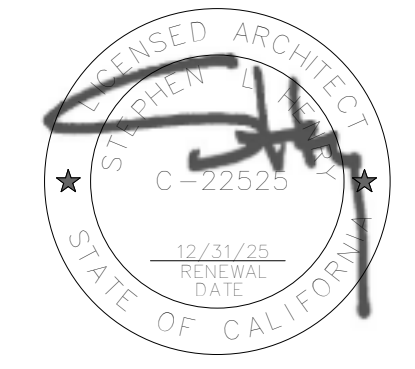
- 1 FIXTURE TO BE REMOVED. REMOVE ALL SERVICES TO BELOW SLAB AND ABOVE CEILING.



**1** PLUMBING DEMOLITION FLOOR PLAN  
 P2.1.1 SCALE: 1/4" = 1'-0"



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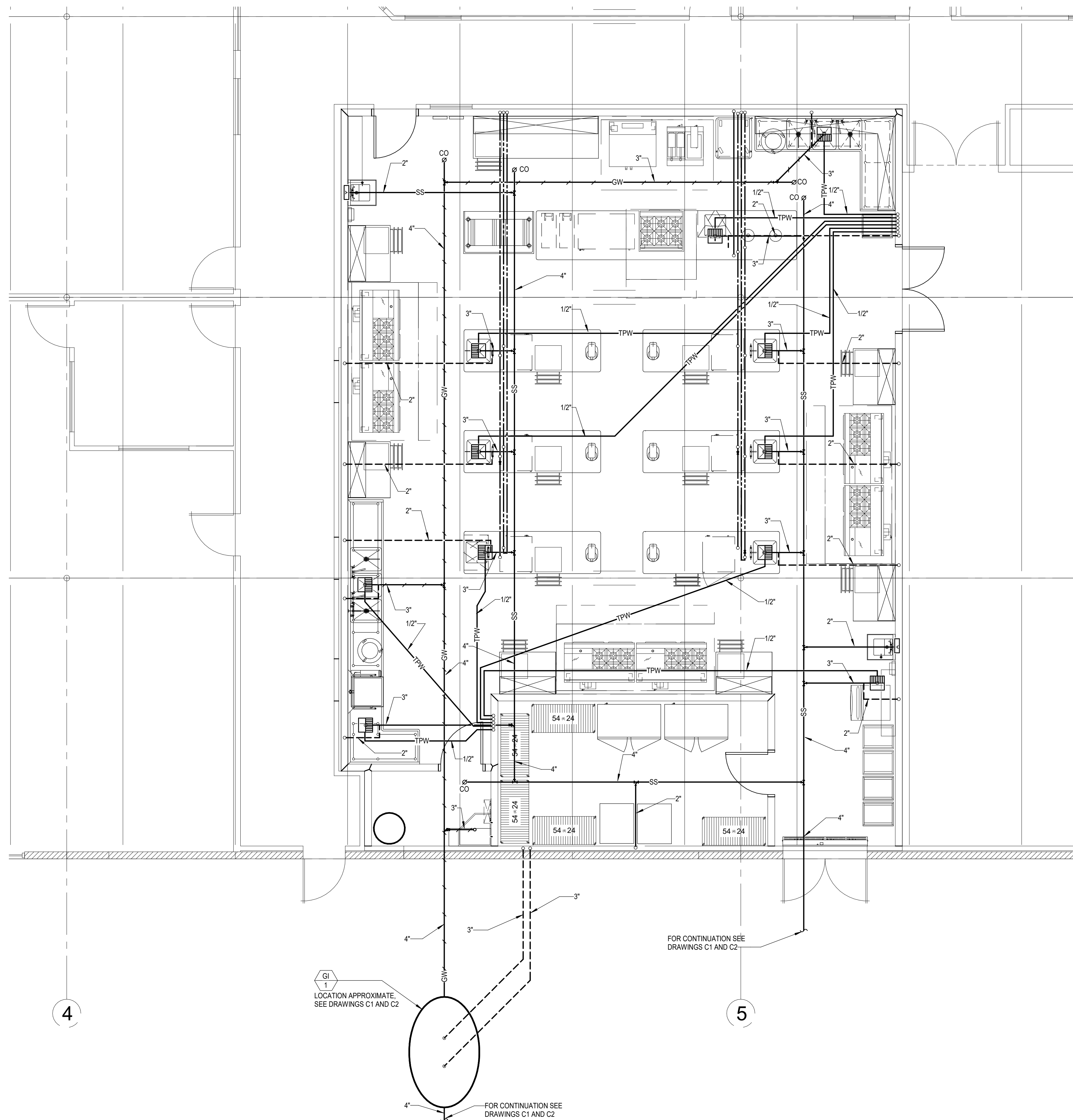


CULINARY LAB  
 VENTURE ACADEMY  
 PLUMBING  
 DEMOLITION  
 FLOOR PLAN

CONSULTANT  
  
 REGISTERED PROFESSIONAL MECHANICAL ENGINEER  
 STATE OF CALIFORNIA  
 DATE SIGNED: 03/04/2024

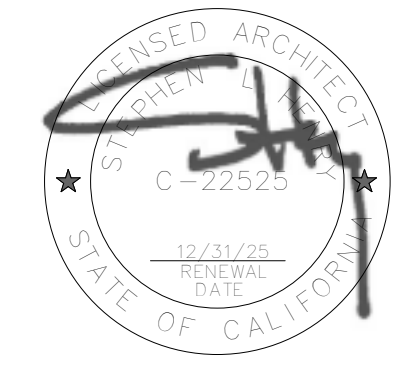
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**P2.1.1**  
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**1 PLUMBING BELOW SLAB PLAN**  
 SCALE: 1/4" = 1'-0"

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**CULINARY LAB  
 VENTURE ACADEMY**

**PLUMBING BELOW  
 SLAB PLAN**

CONSULTANT

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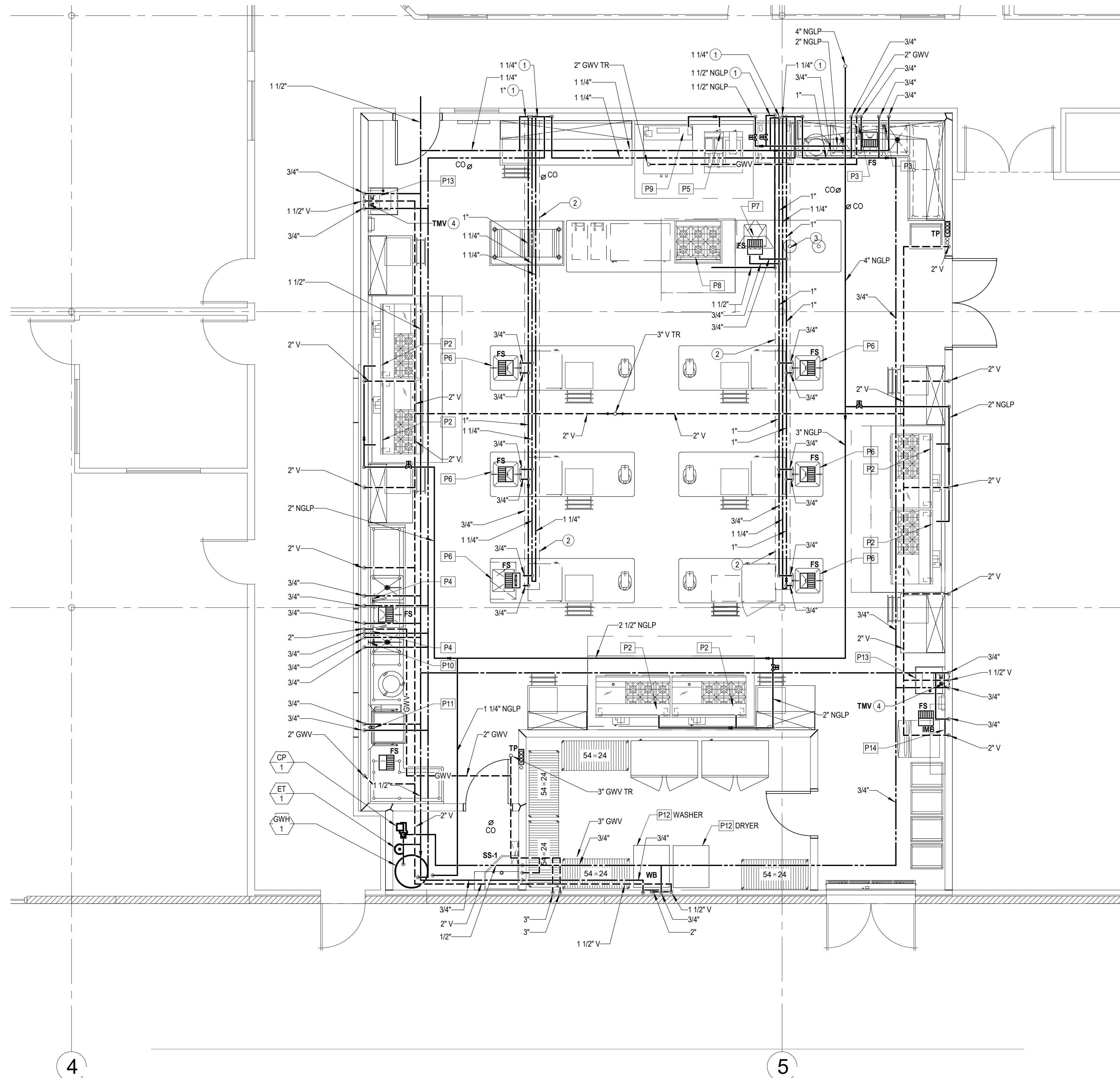
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**P2.1.2**

OF XX SHEETS





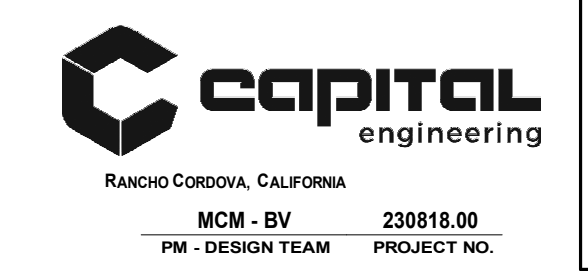
- KEYNOTES**
- 1 DROP PIPE IN WALL TO TRENCHDUCT.
  - 2 CW AND HW PIPING IN TRENCHDUCT WITH STEEL COVERPLATE. SEE DETAIL 4/PS.1.
  - 3 CW, HW, AND GAS PIPING IN TRENCHDUCT WITH STEEL COVERPLATE. SEE DETAIL 4/PS.1.
  - 4 PROVIDE AND INSTALL THERMOSTATIC MIXING VALVE IN WITH ACCESS DOOR BELOW HANDWASH SINK. SET DISCHARGE AT 110 DEG. F. SEE PLUMBING FIXTURE SCHEDULE, SHEET P0.2, AND DETAIL 2/PS.2.

**KITCHEN EQUIPMENT SCHEDULE**

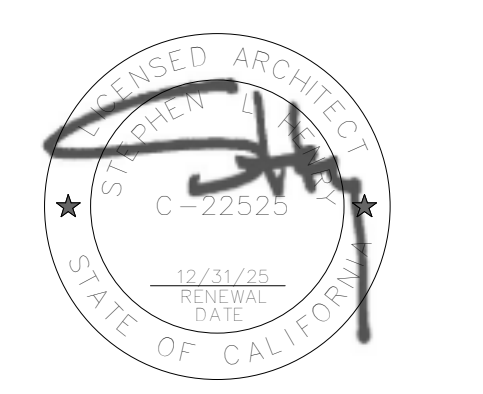
ITEM	DESCRIPTION	WATER		WASTE		GAS	
		CW	HW	DIR	INDIR.	MBH	CONN.
P2	RANGE / GRIDDLE OVEN BASE	-	-	-	-	278	1"
P3	POTWASH SINK FAUCET W/ 3/4" INLET 8" CENTER	3/4"	3/4"	-	2"	-	-
P4	POTWASH SINK FAUCET W/ 3/4" INLET 8" CENTER	3/4"	3/4"	-	2"	-	-
P5	FRYER	2"	-	-	-	140	1"
P6	STUDENT WORK STATION W/ PREP SINK 8" DECK MNT FAUCET	1/2"	1/2"	-	2"	-	-
P7	DEMO TABLE W/ PREP SINK 8" DECK MOUNT FAUCET	1/2"	1/2"	-	2"	-	-
P8	RANGE W/ OVEN BASE	-	-	-	-	278	1"
P9	DOUBLE STACK CONVECTION OVEN	-	-	-	-	120	1"
P10	PRE-RINSE FAUCET, SPLASH MNT FAUCET W/ 1/2" INLET 6" CENTER	1/2"	1/2"	-	2"	-	-
P11	VENTLESS HIGH TEMP WARE WASHER W/ RAPID FILL	3/4"	3/4"	-	1-1/2"	-	-
P12	WASHER AND DRYER	3/4"	3/4"	-	1-1/2"	-	-
P13	WALL MOUNTED HAND SINK FAUCET W/ 1/2" INLET 4" CENTER	1/2"	1/2"	1-1/2"	-	-	-
P14	ICE MAKER AND WATER FILTER	3/8"	-	-	3/4"	-	-

NOTE: PROVIDE LINE SIZE GAS SHUT OFF VALVE, DIRT LEG, AND UNION AT EACH GAS FIRED APPLIANCE. SEE SPEC 22 10 00, 35 AND FOOD SERVICE DRAWINGS.


**1 PLUMBING FLOOR PLAN**  
 P2.1.3 SCALE: 1/4" = 1'-0"



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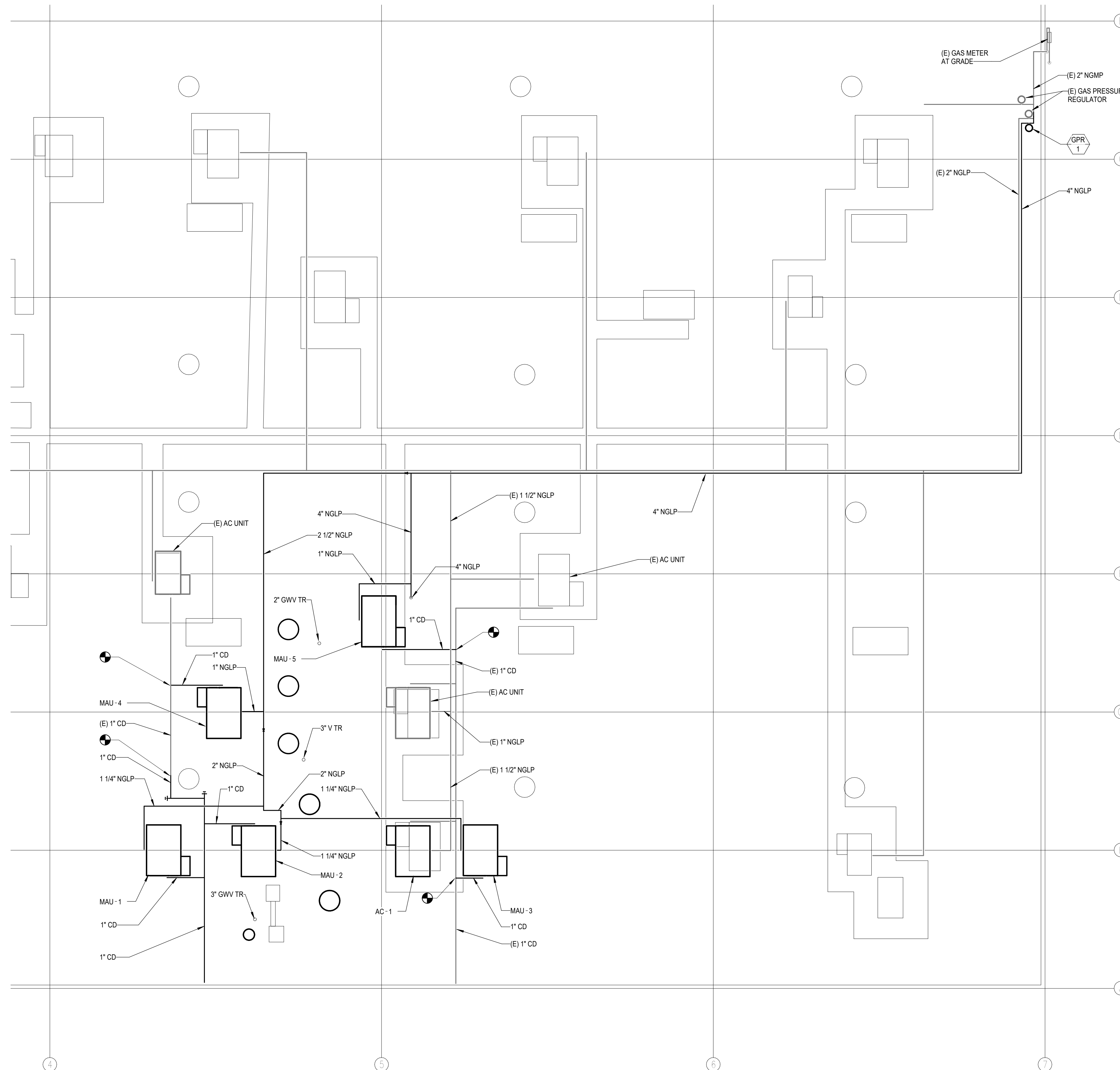
**CULINARY LAB VENTURE ACADEMY**  
**PLUMBING FLOOR PLAN**

CONSULTANT  
  
 REGISTERED PROFESSIONAL ENGINEER  
 MECHANICAL  
 STATE OF CALIFORNIA  
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**P2.1.3**  
 OF XX SHEETS

GENERAL NOTES  
 1. PLUMBING SYSTEM VENTS SHALL BE A MINIMUM OF 10 FT. FROM OUTSIDE AIR INTAKES.



**1** PLUMBING ROOF PLAN  
 SCALE: 1/8" = 1'-0"



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CULINARY LAB  
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 PLUMBING ROOF  
 PLAN

CONSULTANT  
  
 REGISTERED PROFESSIONAL MECHANICAL ENGINEER  
 STATE OF CALIFORNIA  
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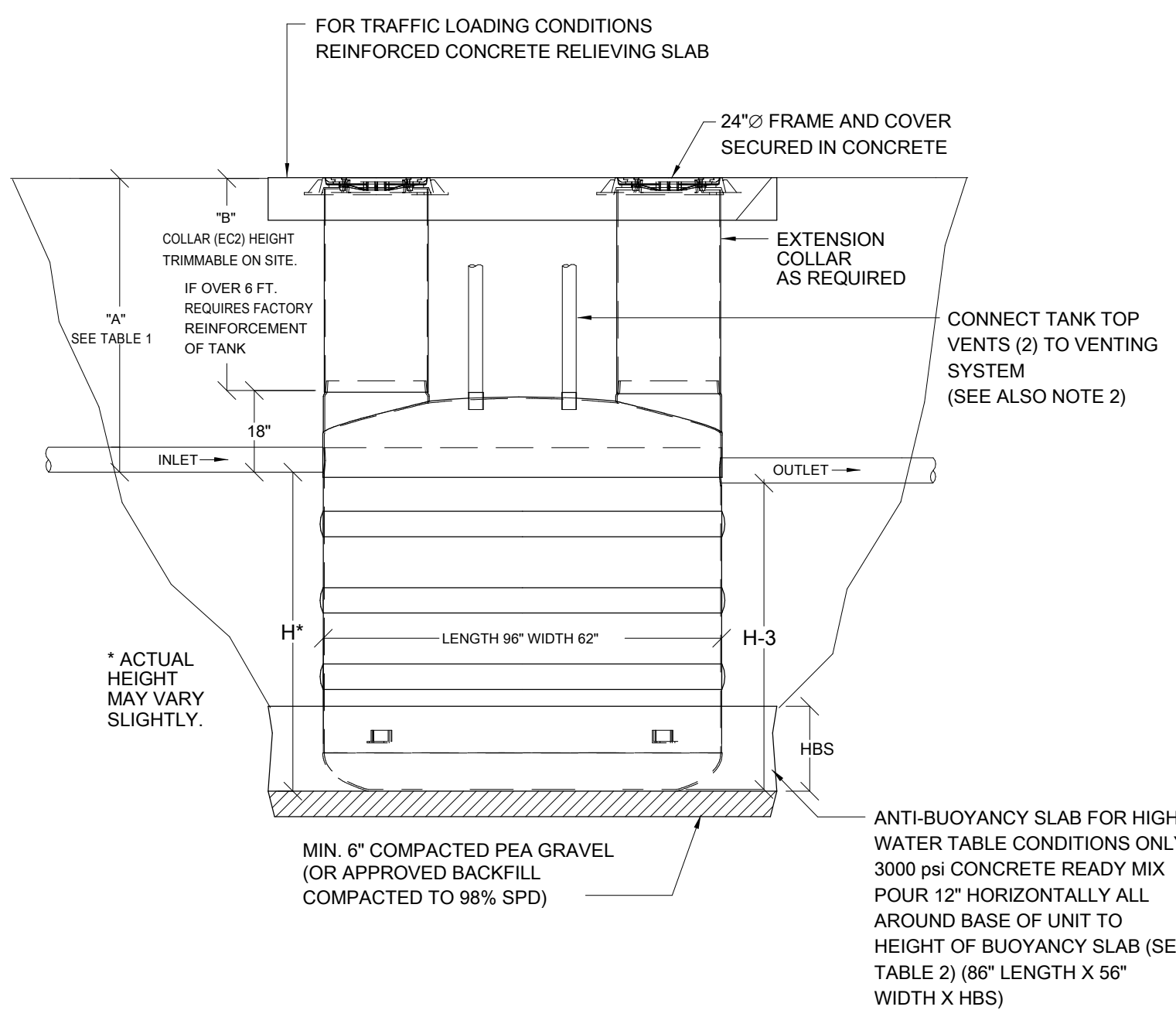
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**P2.1.4**  
 OF XX SHEETS

BURIAL DEPTH	A	B
Max.	7'-0"	6 ft.
Min. with Traffic	36"	18"
Min. no Traffic	24"	** 10"

\*\* MAY VARY DEPENDING ON VENT PIPING AND FLOOR SLAB

PROCEPTOR SEPARATOR MODEL	INLET INVERT TO TANK BOTTOM (H <sup>1</sup> )	HEIGHT OF BUOYANCY SLAB (HBS)	DRY WEIGHT OF TANK
GMC 500 UPC	33"	18"	565 lbs

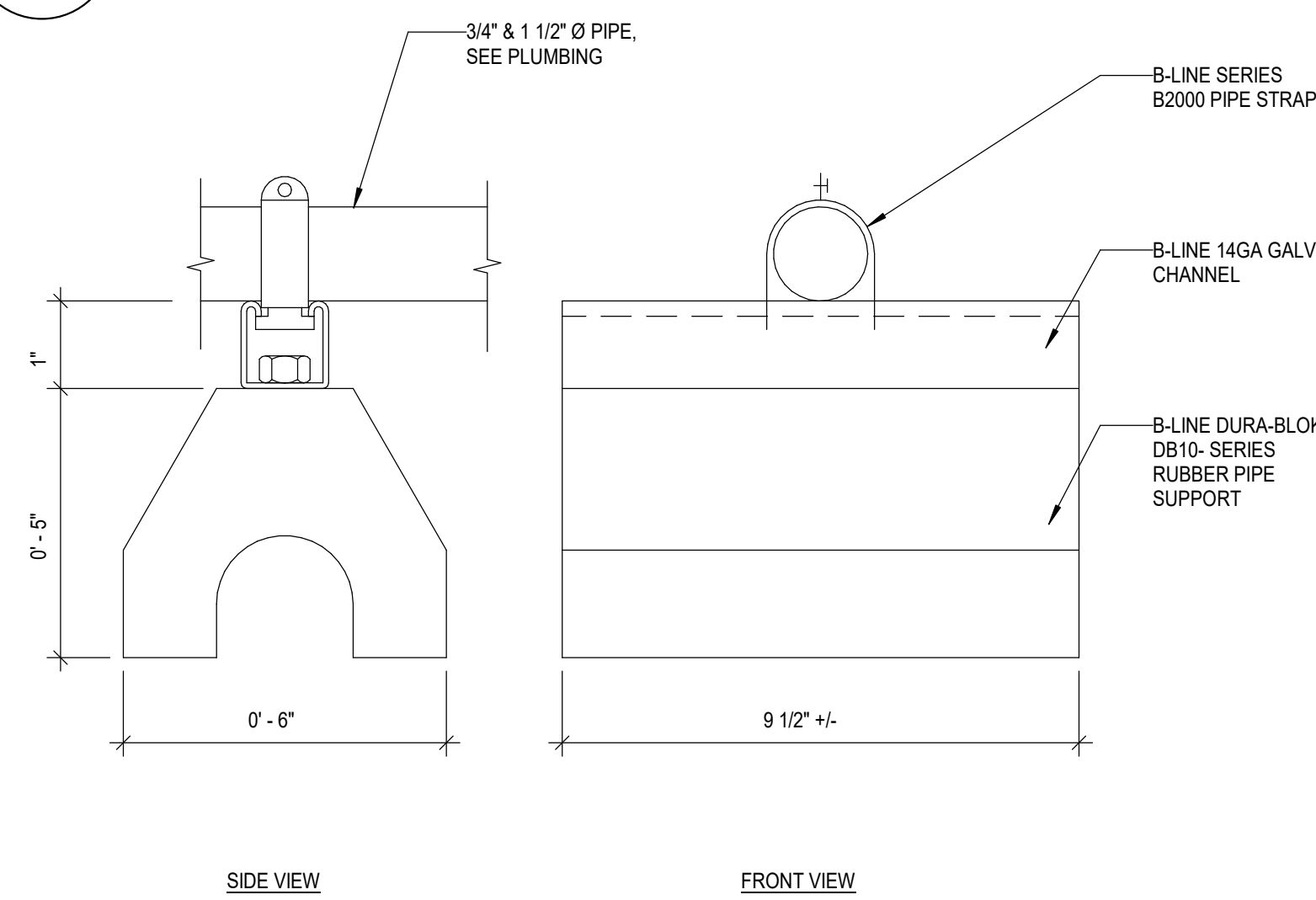


NOTES:

- REFER TO INSTALLATION PROCEDURE AND INSTALLATION CHECKLIST.
- PROCEPTOR SEPARATORS MUST BE INSTALLED IN ACCORDANCE WITH ALL RELEVANT FEDERAL, PROVINCIAL/STATE, AND LOCAL CODES INCLUDING LOCAL PLUMBING CODE.
- US PATENT # 5,746,912; CDN PATENT # 2,195,822

**8 GREASE INTERCEPTOR**

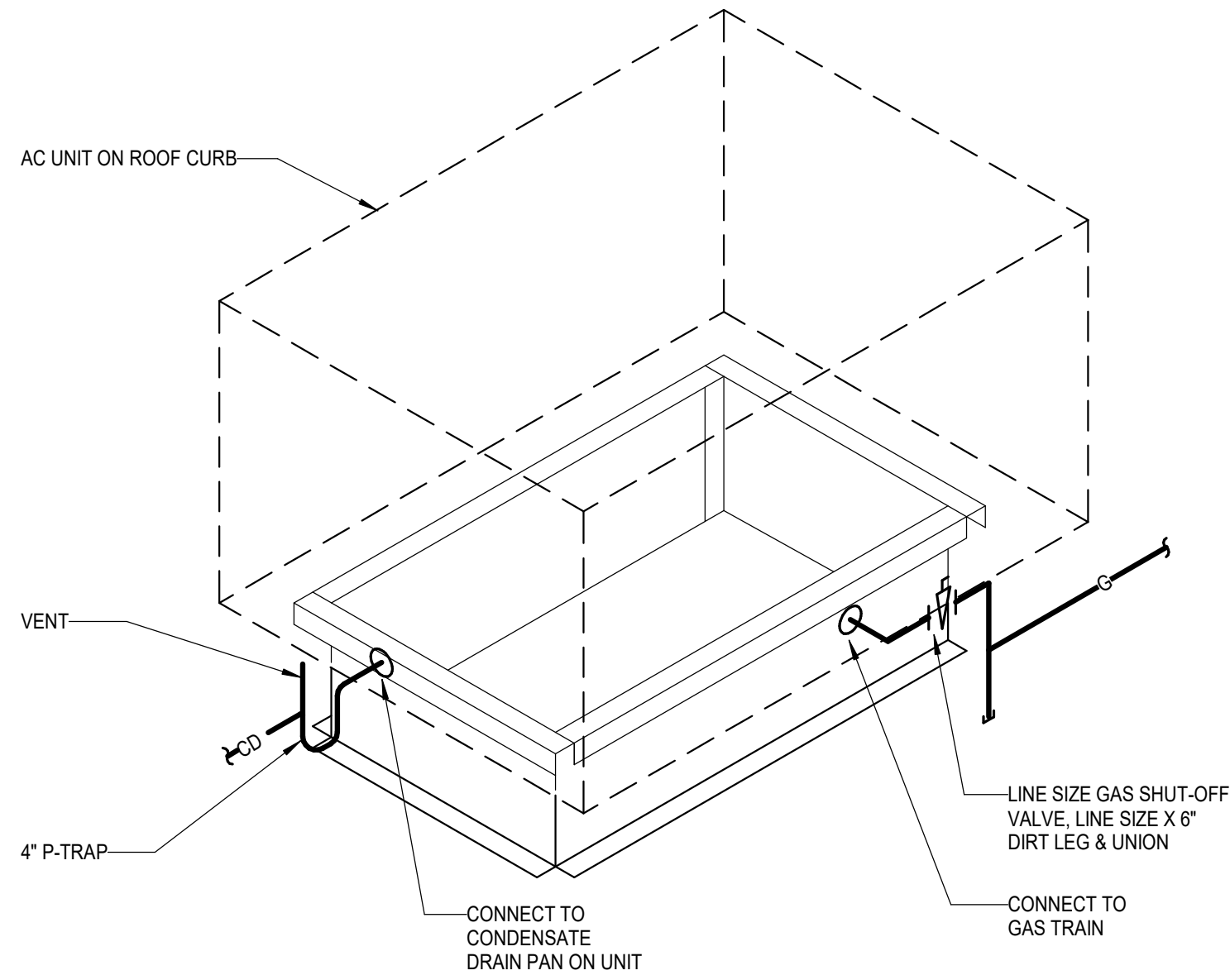
P5.1 SCALE: NONE



- NOTE:
- ALL CHANNEL AND FITTINGS SHALL BE ASSEMBLED USING 1/2" BOLTS (B-LINE NO. N225) WITH AN APPLIED TORQUE OF 50FT-LBS, HOT DIPPED GALVANIZED FOR OUTDOOR USE.
  - ALL DIMENSIONS ARE APPROXIMATE. VERIFY FROM ACTUAL JOBSITE CONDITIONS.
  - REFER TO PLUMBING DRAWINGS FOR PIPE ROUTING. SPACING SHALL BE AT MAXIMUM OF 8'-0" OR LESS. U.N.O. ALSO REFER TO PLUMBING SPECIFICATIONS FOR SPACING

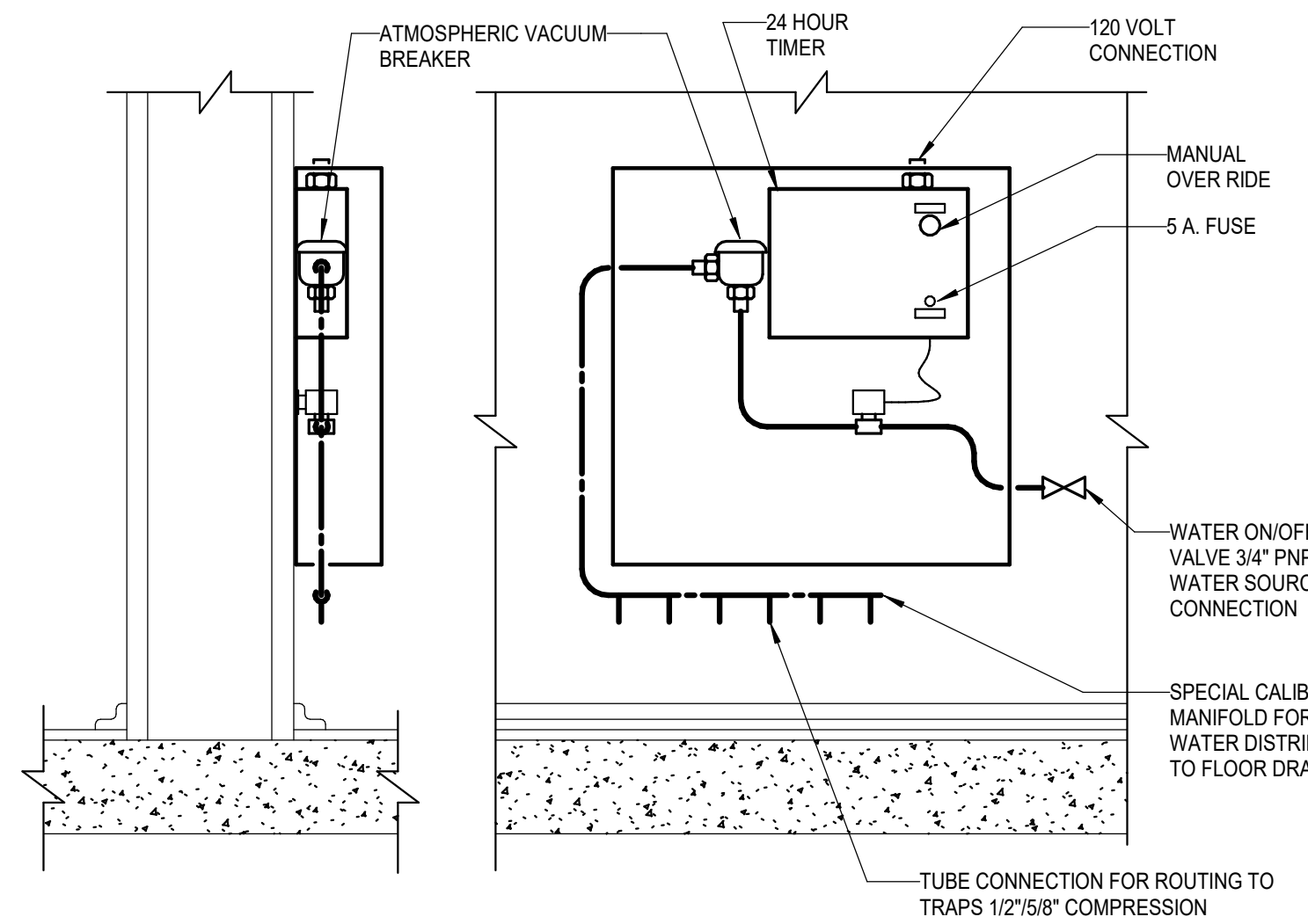
**7 PIPE SUPPORT ON ROOF**

P5.1 SCALE: 1" = 1'-0"



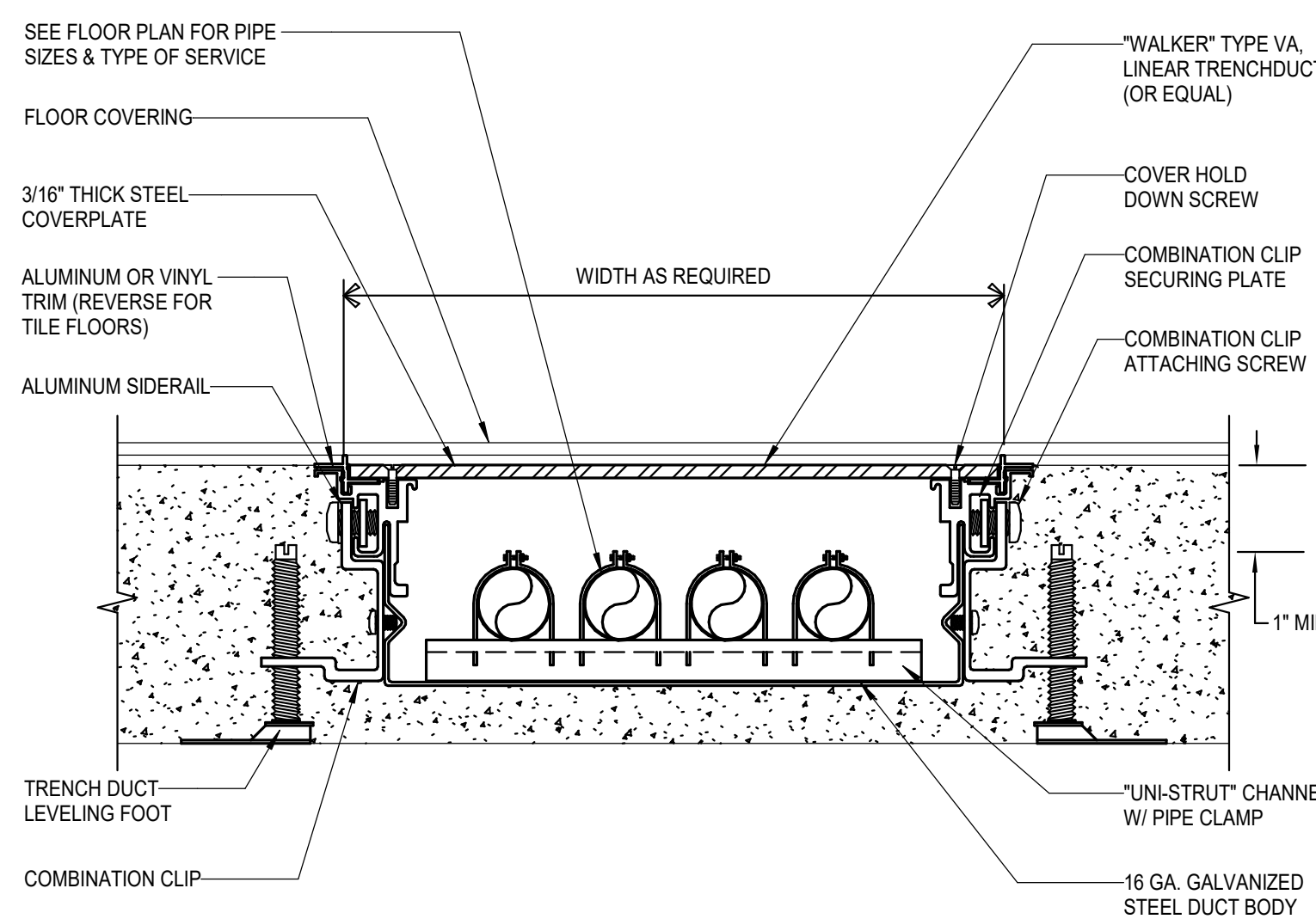
**6 AC UNIT PIPING**

P5.1 SCALE: 1" = 1'-0"



**5 ELECTRONIC TRAP PRIMER**

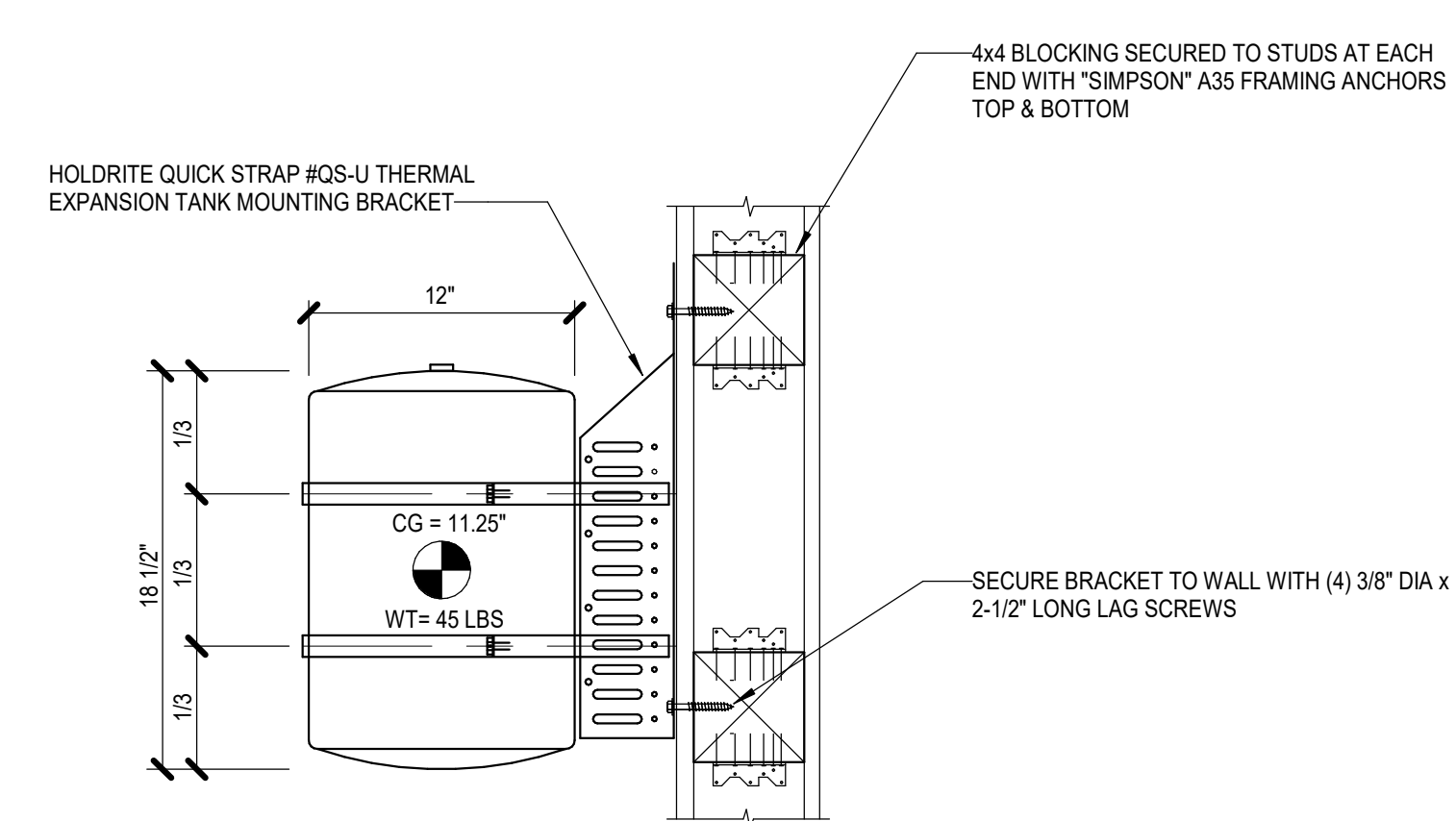
P5.1 SCALE: 1" = 1'-0"



NOTE: INSTALL PER MANUFACTURER'S INSTRUCTIONS

**4 PIPE TRENCH**

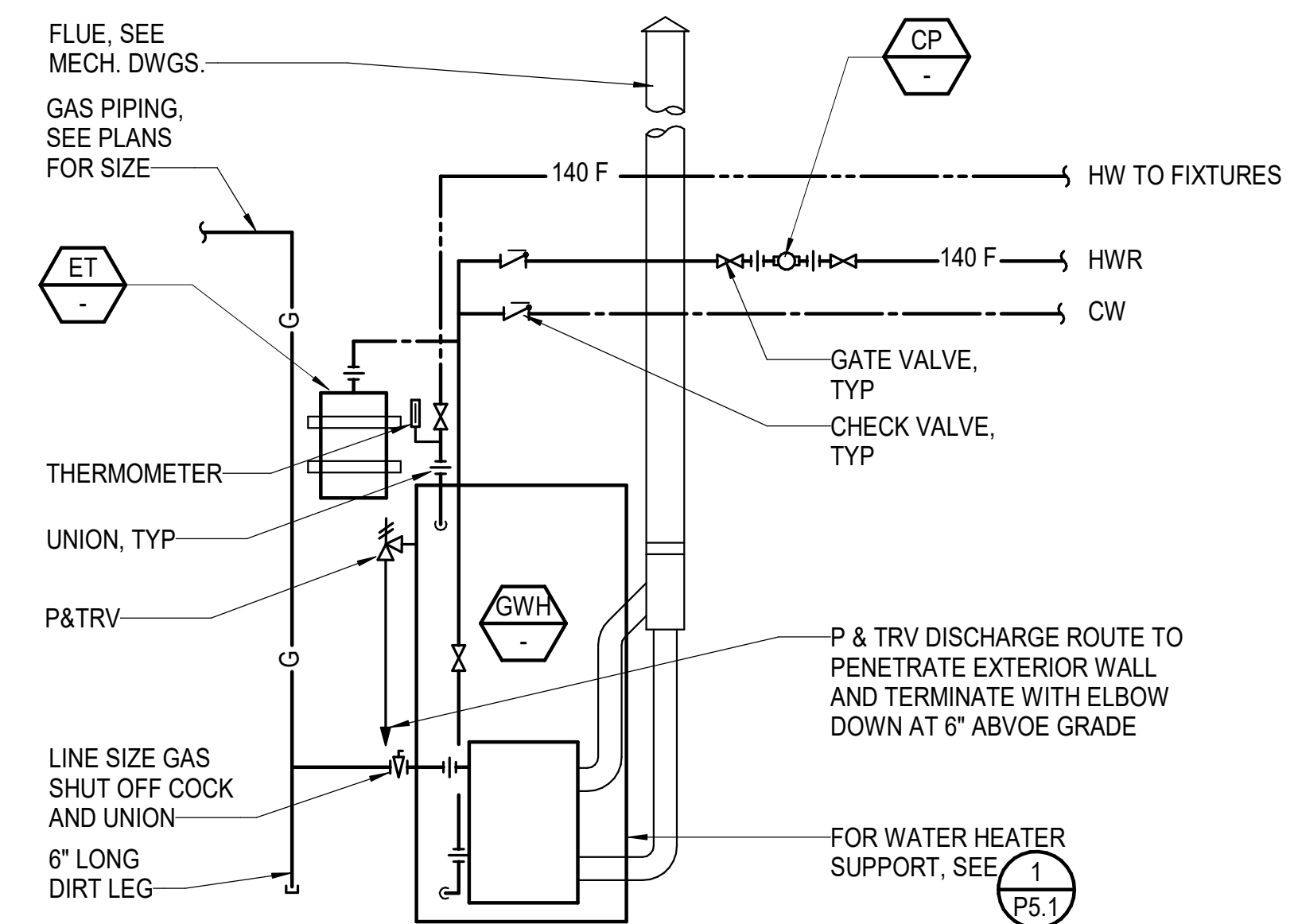
P5.1 SCALE: NONE



INSTALL PER MANUFACTURER'S INSTRUCTIONS

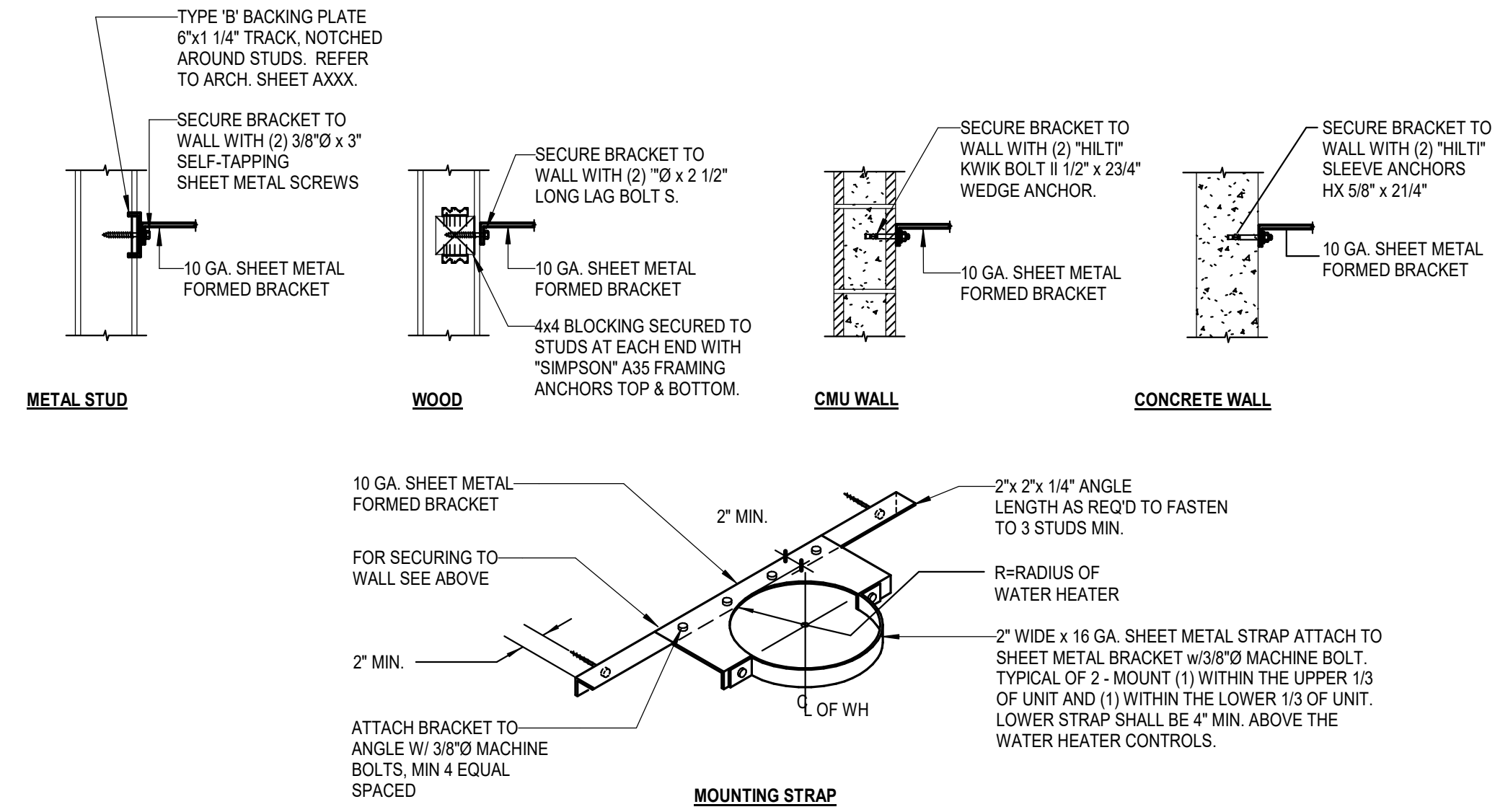
**3 EXPANSION TANK MOUNTING**

P5.1 SCALE: NONE



**2 GAS WATER HEATER PIPING**

P5.1 SCALE: NONE



**1 WATER HEATER STRAP MOUNTING**

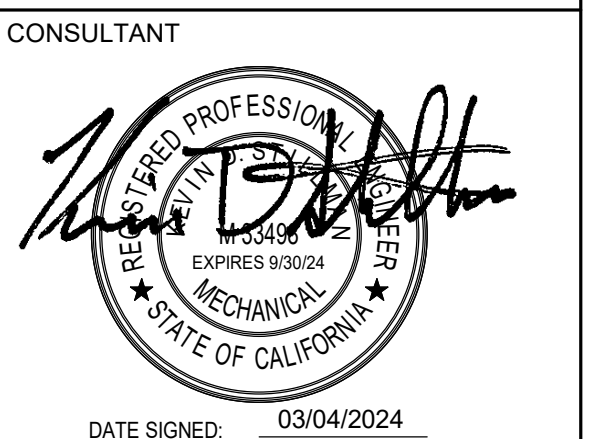
P5.1 SCALE: NONE

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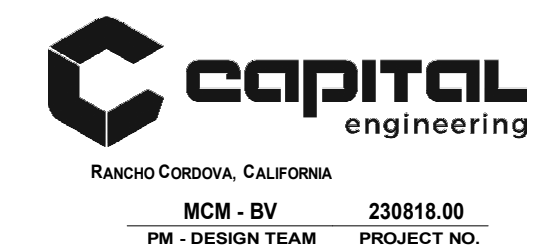
CULINARY LAB  
VENTURE ACADEMY

PLUMBING DETAILS



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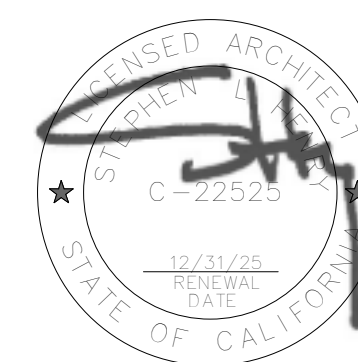


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CULINARY LAB  
 VENTURE ACADEMY  
 PLUMBING DETAILS

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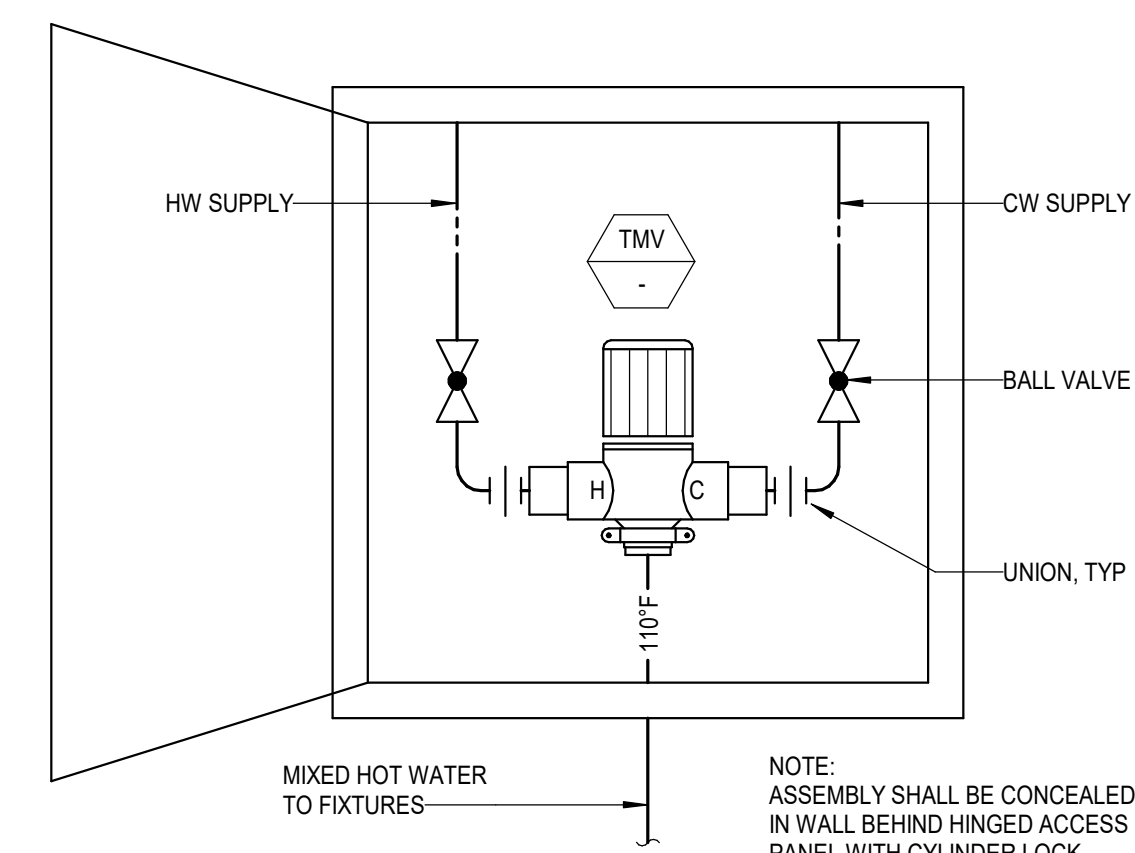
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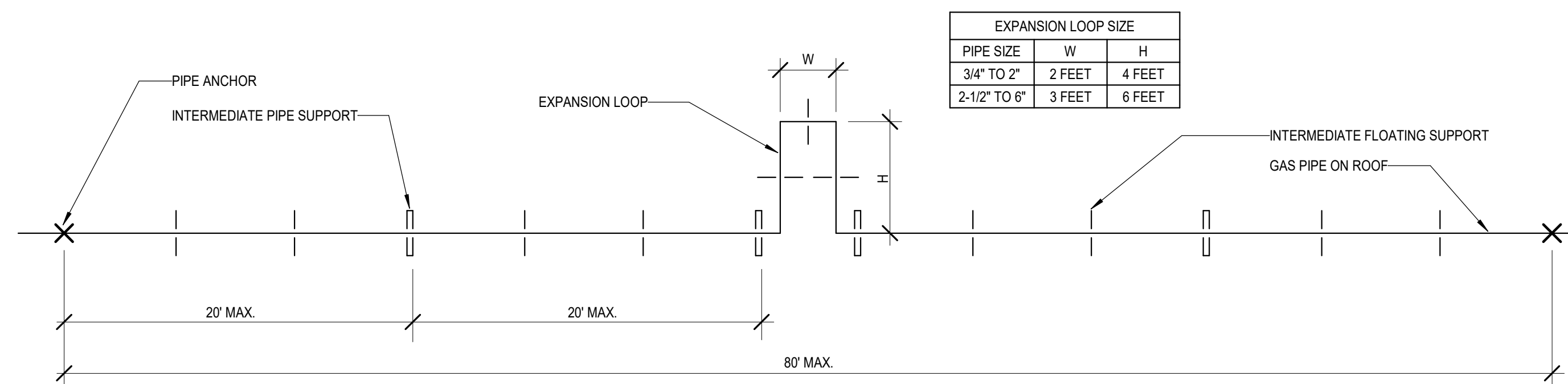
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P5.2

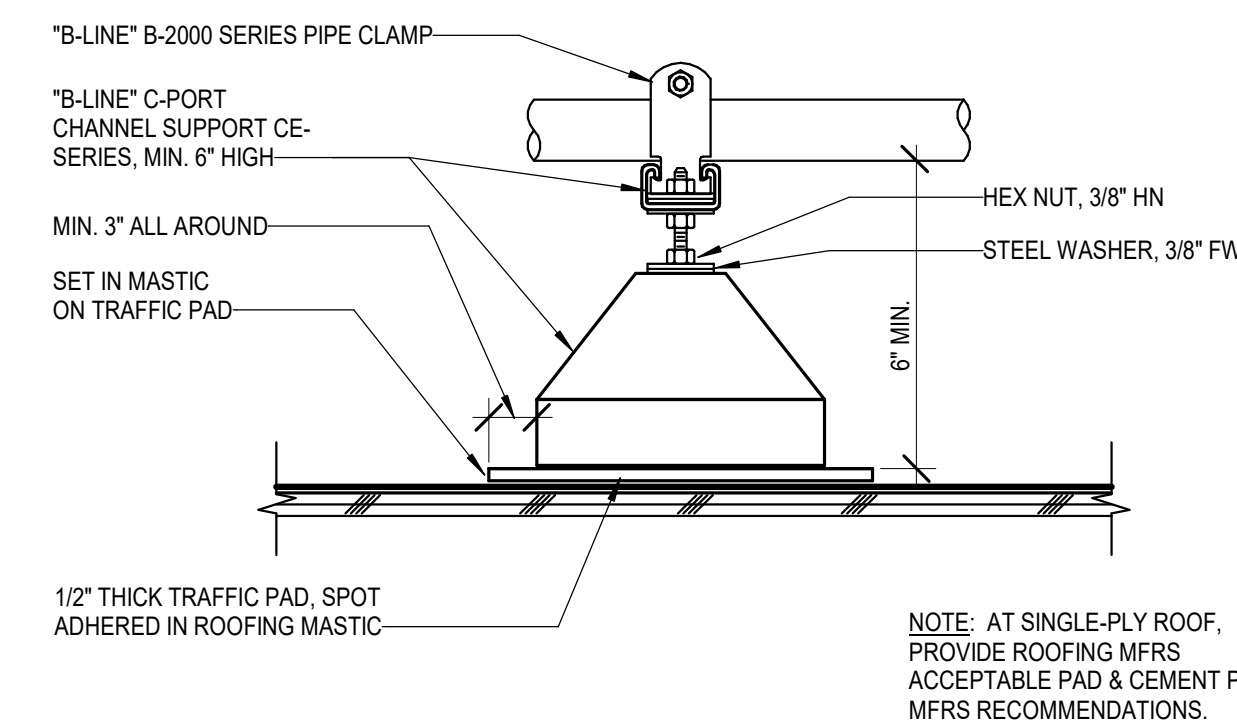
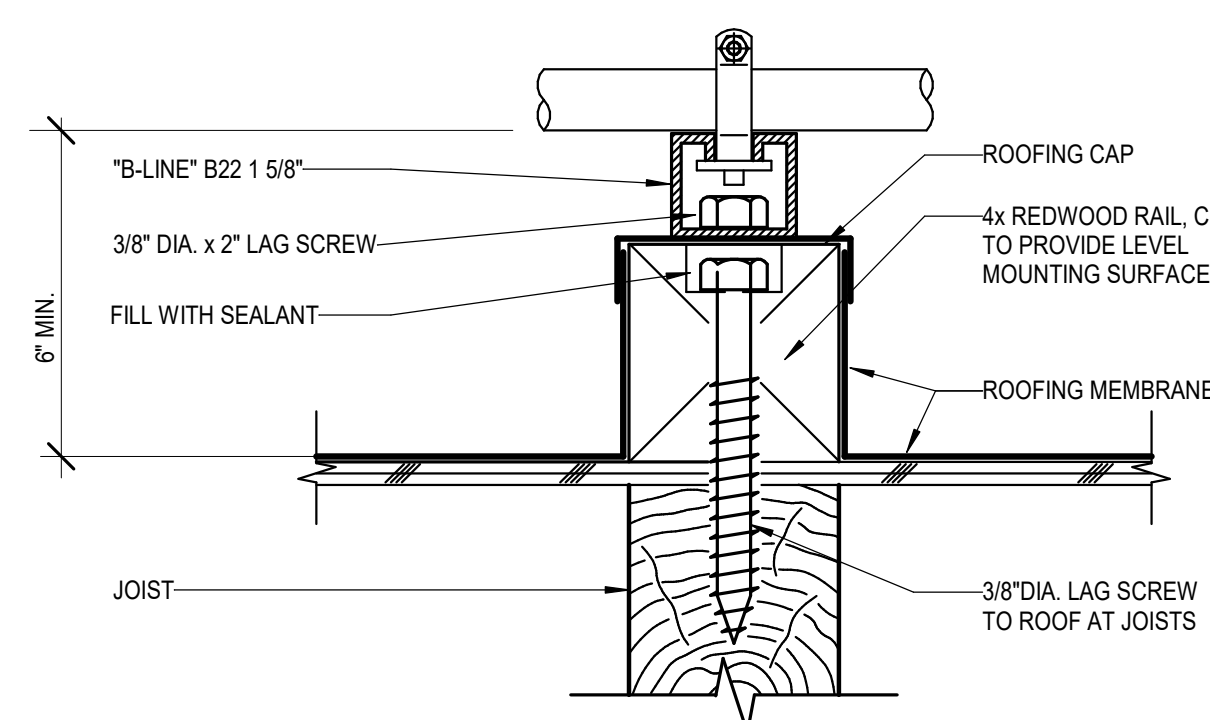
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**2** THERMOSTATIC MIXING VALVE  
 P5.2 SCALE: 1" = 1'-0"



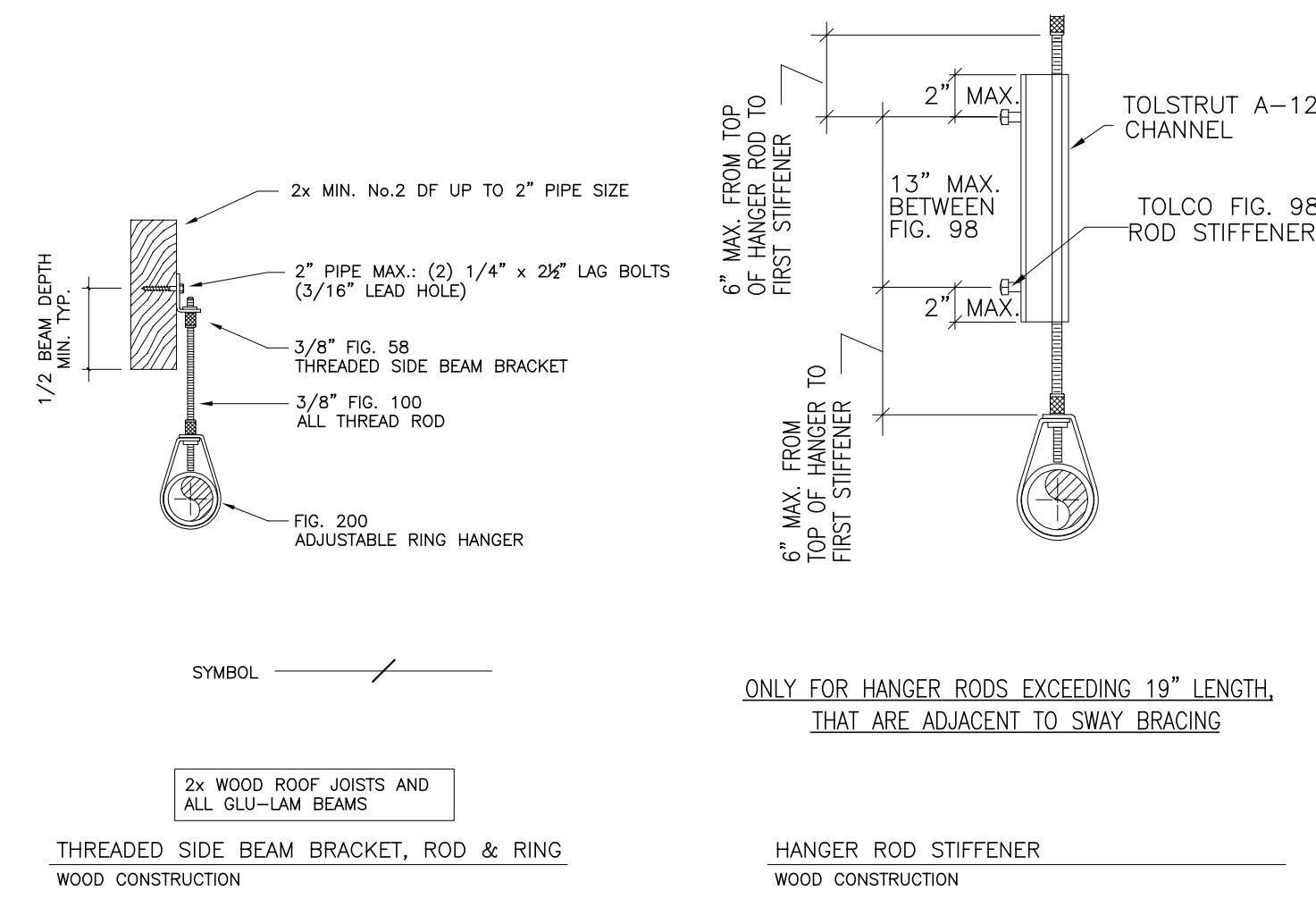
- NOTES:
- INTERMEDIATE PIPE SUPPORTS SHALL BE SPACED AT 20' ON CENTER MAX.
  - INTERMEDIATE FLOATING SUPPORTS SHALL BE SPACED BETWEEN INTERMEDIATE PIPE SUPPORTS WITH SPACING AS REQUIRED TO MEET THE MAXIMUM PIPE SPACING REQUIREMENTS OF SPECIFICATIONS SECTION 22 00 50.
  - INTERMEDIATE SUPPORTS AND INTERMEDIATE FLOATING SUPPORTS SHALL HAVE PIPE CLAMPS INSTALLED LOOSE AROUND PIPE TO ALLOW LONGITUDINAL MOVEMENT OF THE PIPE. PIPE ANCHORS SHALL HAVE PIPE CLAMPS INSTALLED TIGHT AROUND PIPE TO PROVIDE SECURE ANCHORAGE.
  - "METRAFLEX" METRALOOP MAY BE USED IN LIEU OF THE PIPED EXPANSION LOOP.
  - PROVIDE "Z" BENDS WHERE APPLICABLE.



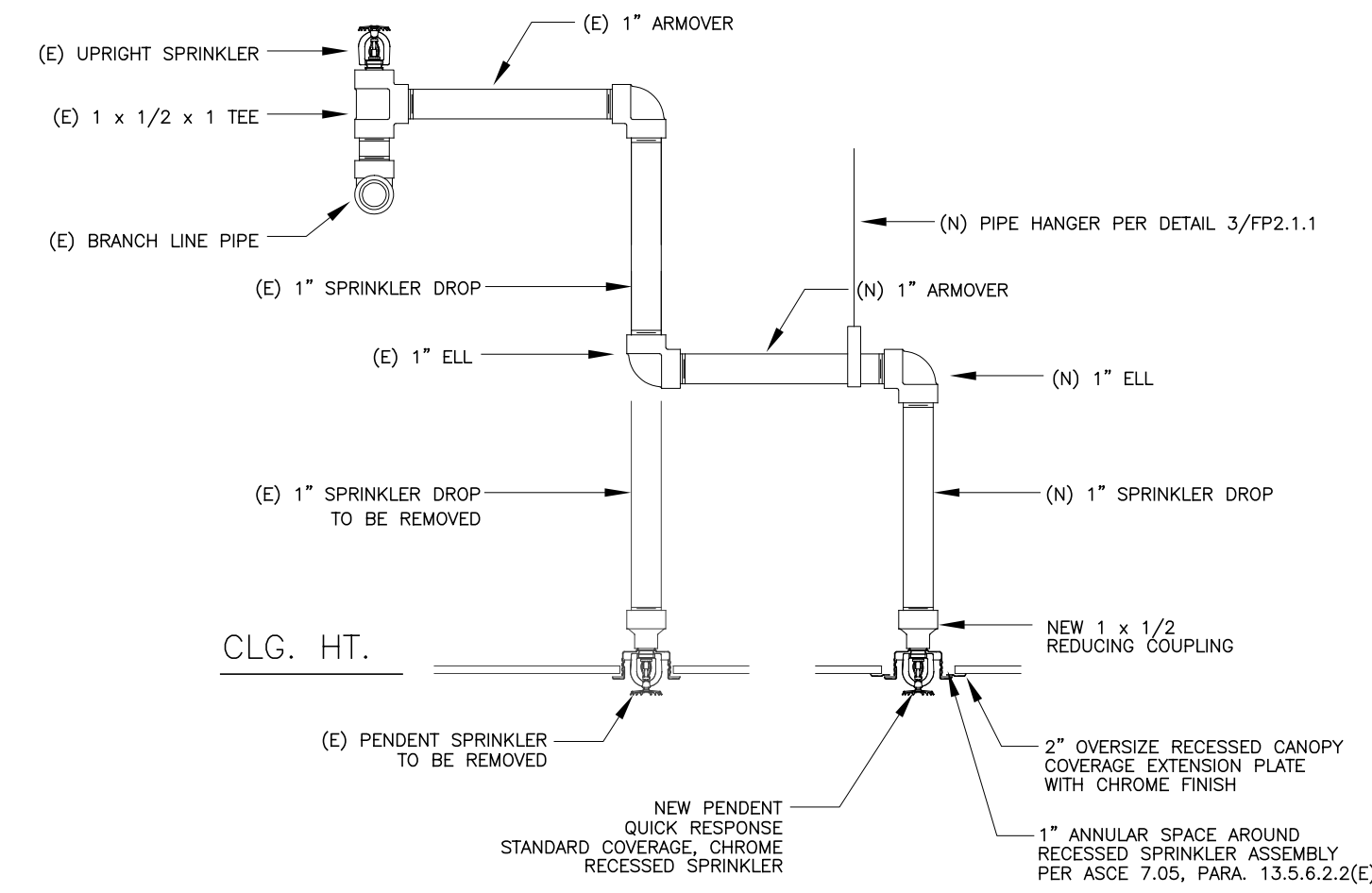
NOTE: AT SINGLE-PLY ROOF, PROVIDE ROOFING MFRS ACCEPTABLE PAD & CEMENT PER MFRS RECOMMENDATIONS.

**1** GAS PIPE SUPPORT ON ROOF  
 P5.2 SCALE: 1" = 1'-0"





SPRINKLER PIPE HANGER DETAILS 2  
 SCALE : NONE FP0.1



SPRINKLER DROP DETAIL 1  
 SCALE : NONE FP0.1

## FIRE PROTECTION PROJECT NOTES

1. THE AUTOMATIC WET PIPE SPRINKLER SYSTEM MODIFICATIONS SHALL CONFORM TO THE REQUIREMENTS OF THE 2022 EDITION OF NFPA PAMPHLET #13.
2. A MINIMUM OF 48 HOURS NOTICE SHALL BE REQUIRED FOR ANY INSPECTION AND/OR TESTING.
3. INSTALLATION OF THE SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATIONS HAVE BEEN APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ). A STAMPED SET OF APPROVED DRAWINGS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. ANY DEVIATION FROM THE APPROVED PLANS, INCLUDING THE SUBSTITUTION OF ANY COMPONENTS SHALL BE APPROVED BY THE AHJ. FAILURE TO COMPLY MAY RESULT IN A STOP WORK ORDER.
4. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED SPRINKLER STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD.
5. THE EXISTING FIRE SPRINKLER SYSTEM IS HYDRAULICALLY CALCULATED FOR A DESIGN DENSITY OF .33 GPM SF OVER 3000 SF.
6. NEW CEILING SPRINKLER SPACING SHALL NOT EXCEED 130 FT<sup>2</sup> FOR ORDINARY HAZARD 2 OCCUPANCY.
7. THREADED PIPING TO BE SCH-40, BLACK STEEL WITH CAST OR DUCTILE IRON FITTINGS. GROOVED END PIPING TO BE SCH-10, BLACK STEEL WITH GROOVED FITTINGS AND WELDED OUTLETS.
8. THE FIRE SPRINKLER CONTRACTOR SHALL VERIFY / COORDINATE, AT NO ADDITIONAL COST TO THE OWNER, THE LOCATION OF SPRINKLERS, PIPING, AND DEVICES PRIOR TO FABRICATION AND INSTALLATION OF THE FIRE SPRINKLER SYSTEM.
9. THE FIRE SPRINKLER CONTRACTOR SHALL SUBMIT TO THE ARCHITECT FOR AHJ REVIEW AND APPROVAL, SHOP DRAWINGS AND SUPPORTIVE CALCULATIONS FOR ANY/ALL CHANGES TO THE FIRE SPRINKLER SYSTEM LAYOUT SHOWN ON THESE DRAWINGS, AT NO ADDITIONAL COST TO THE OWNER. THE INSTALLATION SHALL BE BASED ON THIS APPROVED SET.

## COORDINATION AND SHOP DRAWING NOTES

1. CLEARANCES IN ALL ATTIC AREAS ARE EXTREMELY LIMITED. MULTIPLE SYSTEMS ARE LOCATED IN THE ATTIC SPACES. WORK CLOSELY TOGETHER WITH ALL TRADES TO ENSURE THAT PROPER ROUTING OF THE ALL FIRE PROTECTION SYSTEMS IS ACHIEVED, AND TO ENSURE THAT NO CONFLICTS OCCUR.
2. CONDITIONS HAVE BEEN SHOWN AS ACCURATELY AS POSSIBLE. ALL CONDITIONS ARE TO BE FIELD VERIFIED BY THE FIRE SPRINKLER CONTRACTOR. THE FIRE SPRINKLER CONTRACTOR IS TO INCLUDE IN HIS BID, ADJUSTMENTS TO THE WORK AS REQUIRED TO ACCOMMODATE THE ACTUAL FIELD CONDITIONS.
3. COORDINATED SHOP DRAWINGS ARE REQUIRED. THE FIRE SPRINKLER CONTRACTOR IS TO PROVIDE COORDINATED SHOP DRAWINGS THAT INCLUDE ALL EXISTING FIRE SPRINKLER SYSTEMS/ADDITIONS TO BE INSTALLED. SYSTEMS FROM ALL TRADES ARE TO BE COORDINATED SO THAT NO CONFLICTS OCCUR.
4. DEVIATION FROM THE APPROVED PLANS SHALL REQUIRE PERMISSION OF THE FIRE DEPARTMENT.

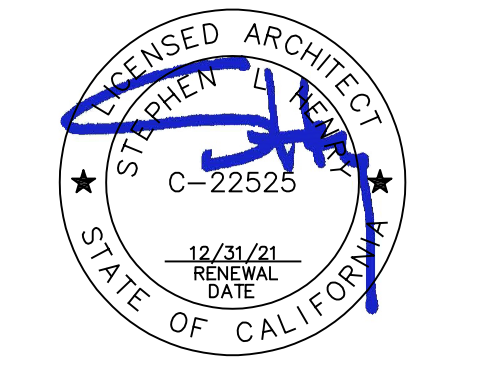
## APPLICABLE CODES

- 2022 CALIFORNIA ADMINISTRATION CODE , TITLE 24 CCR
- 2022 CALIFORNIA BUILDING CODE (PART 2, VOLUME 1 AND 2, TITLE 24) (2018 INTERNATIONAL BUILDING CODE WITH 2021 CALIFORNIA AMENDMENTS)
- 2022 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24 CCR) (2020 NATIONAL ELECTRICAL CODE WITH 2022 CALIFORNIA AMENDMENTS)
- 2022 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24 CCR) (2021 IAPMO UNIFORM MECHANICAL CODE WITH 2022 CALIFORNIA AMENDMENTS)
- 2022 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24 CCR) (2021 IAPMO UNIFORM PLUMBING CODE WITH 2022 CALIFORNIA AMENDMENTS)
- 2022 CALIFORNIA FIRE CODE (PART 9, TITLE 24 CCR) (2021 INTERNATIONAL FIRE CODE WITH 2022 CALIFORNIA AMENDMENTS)
- 2022 NFPA 13 – STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (WITH 2019 CALIFORNIA AMENDMENTS)
- 2022 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24 CCR)
- 2019 NFPA 24 – PRIVATE FIRE MAINS (WITH 2022 CALIFORNIA AMENDMENTS)
- 2013 NFPA 25 – STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS WITH CALIFORNIA AMENDMENTS (BASED ON NFPA 25, 2011 EDITION)

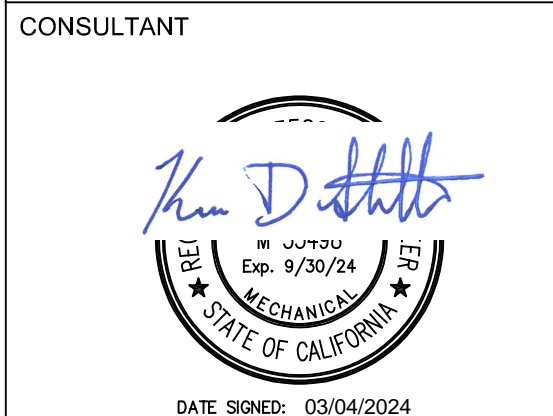
## FIRE PROTECTION PROJECT SCOPE

MODIFY AN EXISTING AUTOMATIC WET PIPE FIRE SPRINKLER SYSTEM, WITH RELOCATED CEILING LEVEL SPRINKLERS AND ASSOCIATED PIPING CONNECTED TO EXISTING 1" FIRE SPRINKLER DROPS ON THE BUILDING FIRE SPRINKLER SYSTEM.

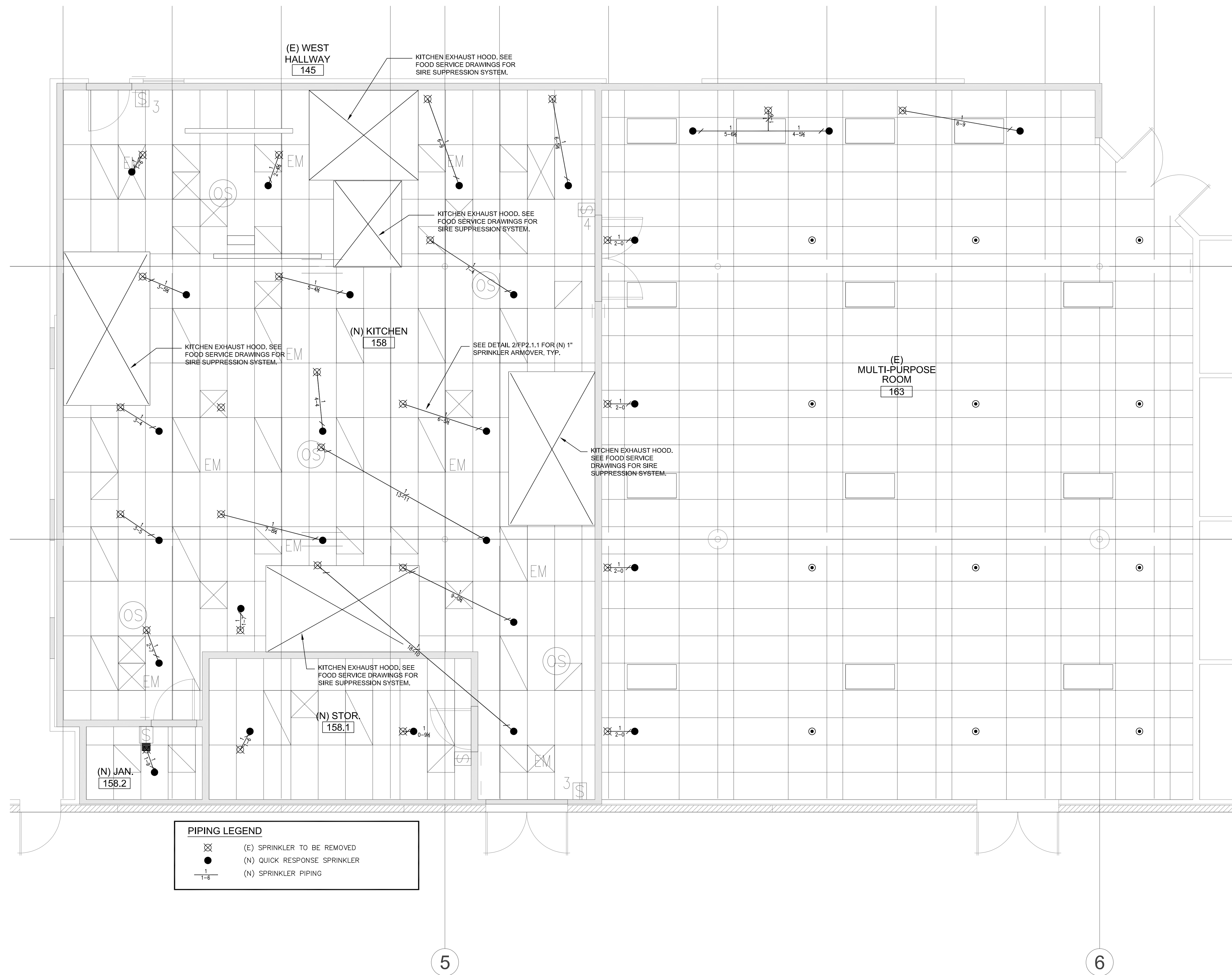
Sprinkler Head Schedule						
Symbol	Count	Thread	K-Factor	SIN	Description	Note
⊙	12	1/2"	5.6	-	1/2 QR 155 C PDR	EXISTING PENDENT SPRINKLER ON DROP TO REMAIN
⊗	29	1/2"	5.6	-	1/2 QR 155 C PDR	EXISTING PENDENT SPRINKLER ON DROP TO BE REMOVED
●	28	1/2"	5.6	TY323	1/2 QR 155 C PDR	NEW PENDENT SPRINKLER ON DROP
28 = Total Number of Heads at (N) KITCHEN and remodeled MP Room						



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 VENTURE ACADEMY  
 FIRE SPRINKLER  
 NOTES, DETAILS



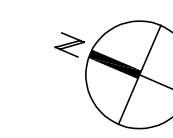
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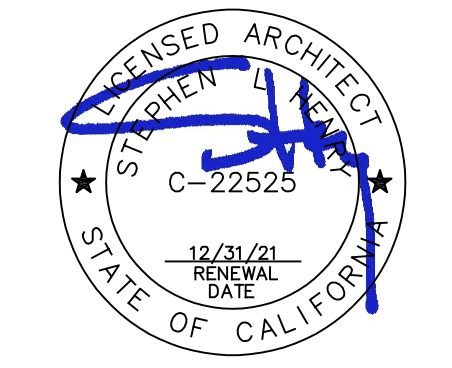
FIRE SPRINKLER FLOOR PLAN

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

1  
FP2.1.1

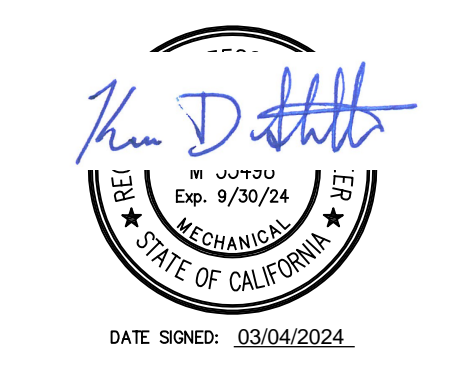


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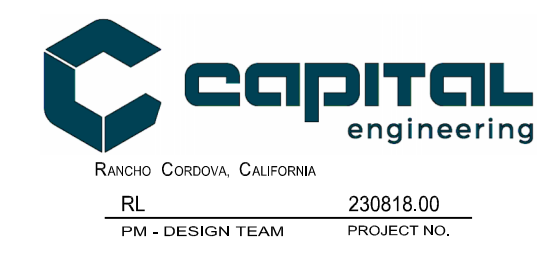
CULINARY LAB  
 VENTURE ACADEMY  
 FIRE SPRINKLER  
 FLOOR PLAN

CONSULTANT



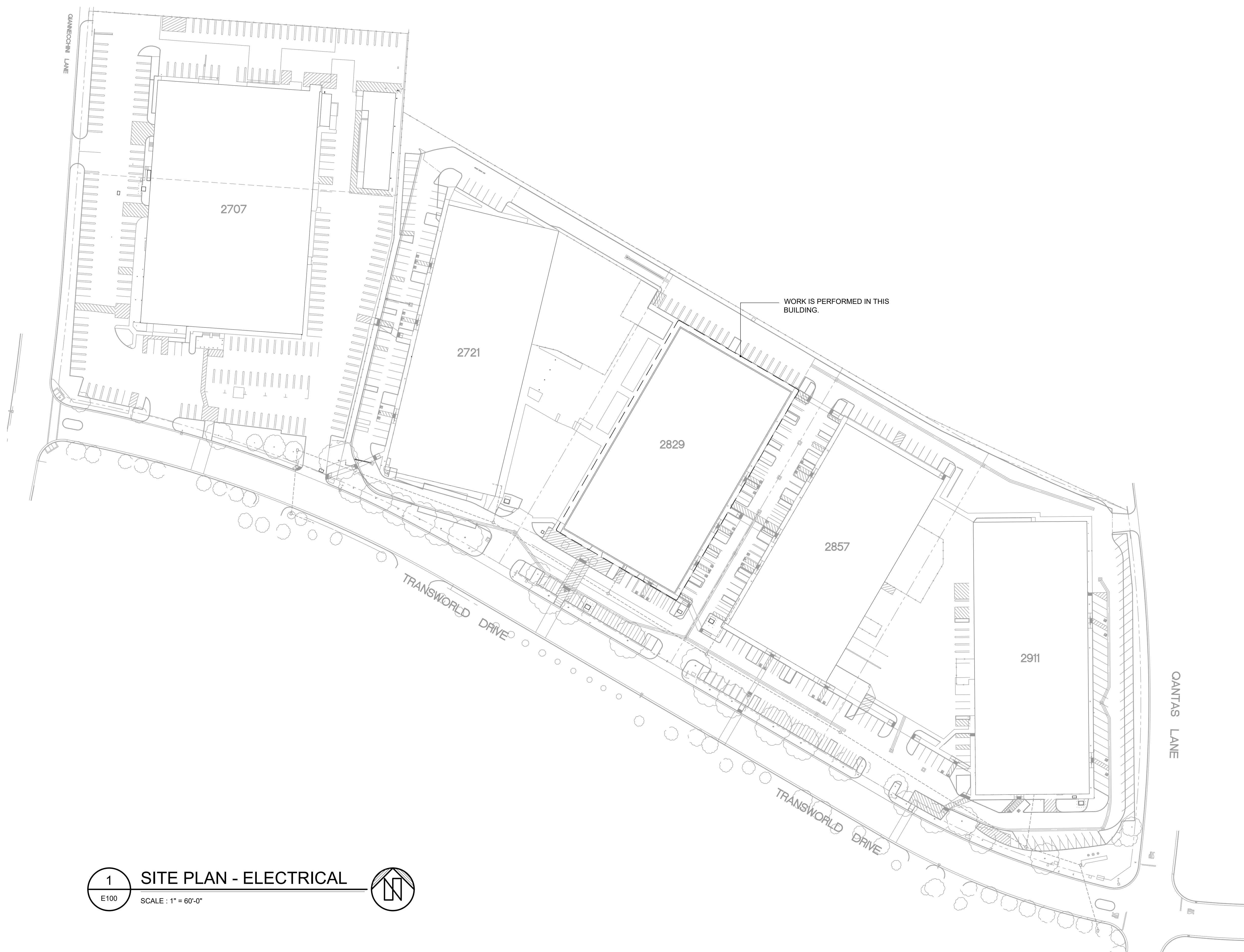
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Mar 19, 2024 - 12:25pm  
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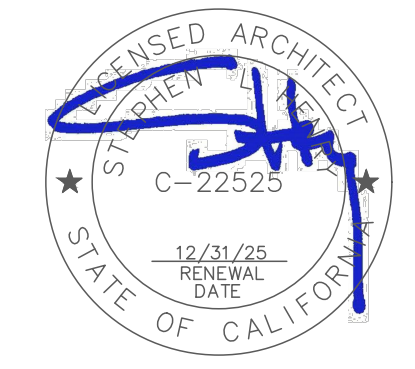


**1** SITE PLAN - ELECTRICAL  
 E100 SCALE: 1" = 60'-0"

**M. NEILS ENGINEERING, INC.**  
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 PROJECT #: 23271.21



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CULINARY LAB  
 VENTURE ACADEMY  
 SITE PLAN -  
 ELECTRICAL

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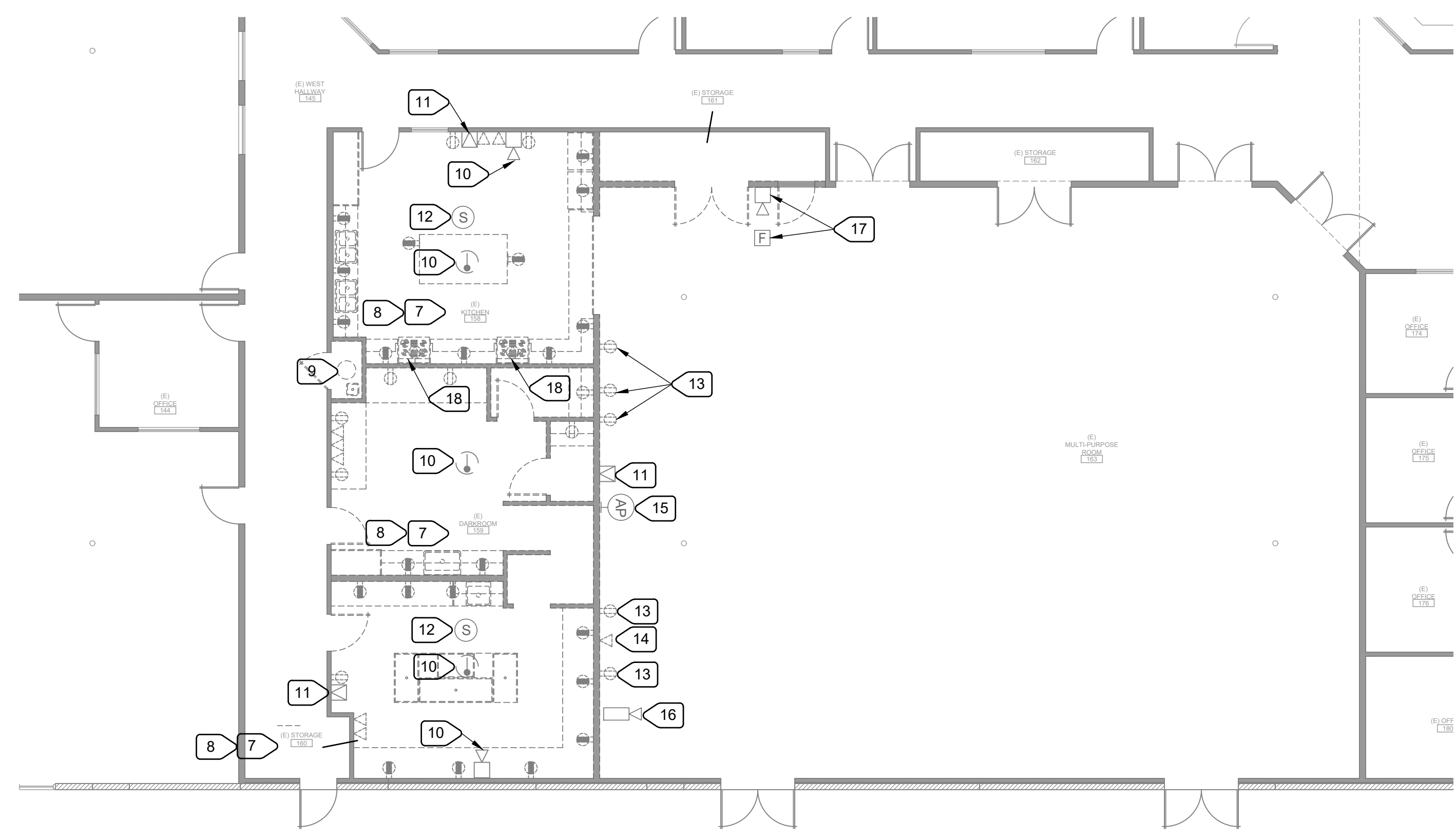


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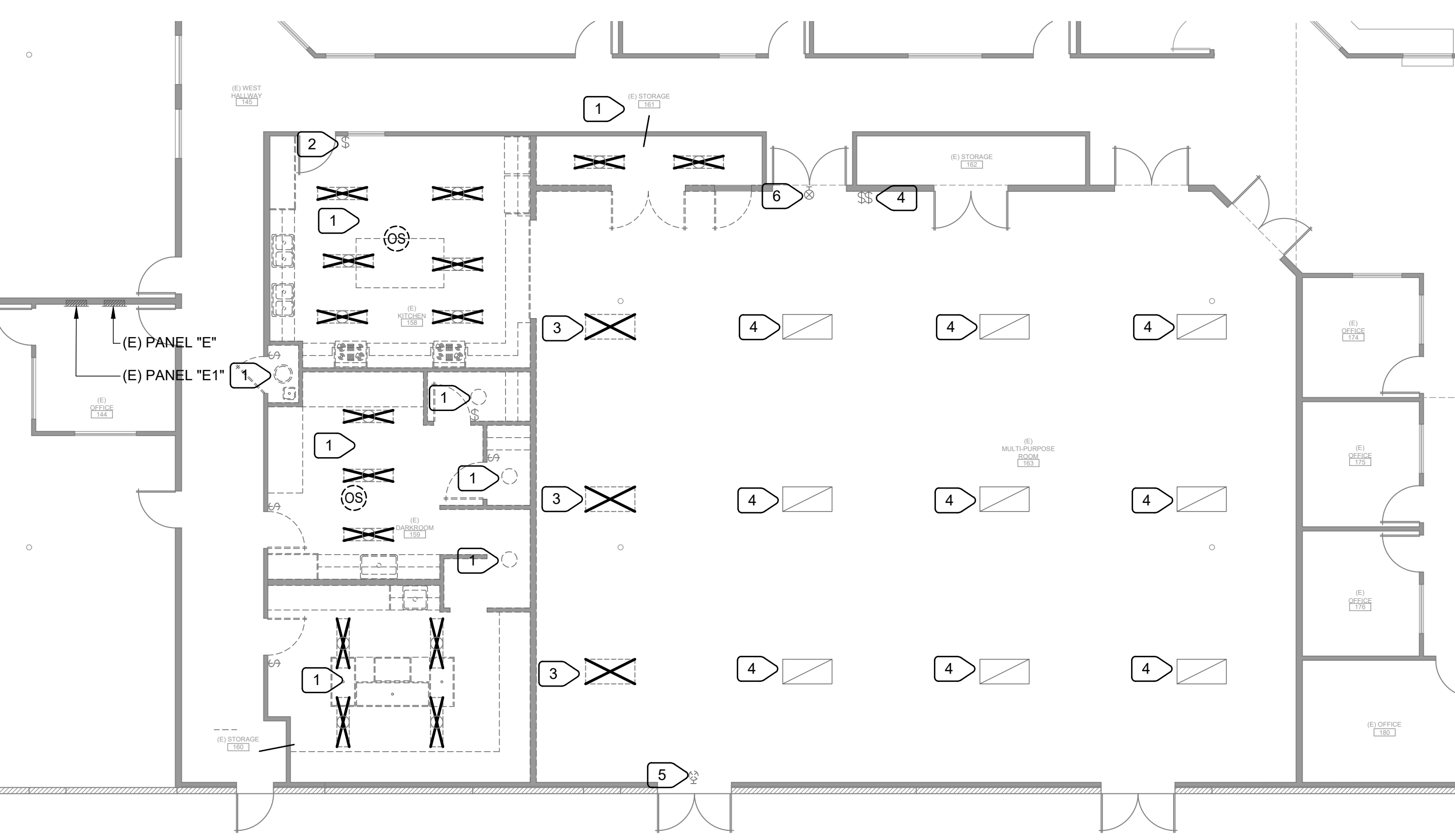
**E100**

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NOT ALL DEVICES ARE SHOWN. CONTRACTOR SHALL VISIT SITE PRIOR TO BID AND SUBMIT PRE-BID RFI FOR SPECIFIC DEVICES.

**2 PARTIAL FLOOR PLAN - ELECTRICAL DEMOLITION**



**1 PARTIAL FLOOR PLAN - LIGHTING DEMOLITION**  
 E200 SCALE: 1/8" = 1'-0"

- NUMBERED NOTES:**
- 1 DISCONNECT AND REMOVE (E) LIGHT FIXTURES IN THIS SPACE. DISCONNECT (E) SWITCHES AND OCC. SENSORS AND REMOVE. REMOVE (E) LIGHTING CIRCUIT TO LAST REMAINING LIGHT FIXTURE. INSURE THAT REMAINING LIGHT FIXTURES ARE IN WORKING CONDITION. PROTECT (E) UNSWITCHED LIGHTING CIRCUIT FOR CONNECTION OF (N) LIGHT FIXTURES - SEE 1/E210.
  - 2 PROTECT BACKBOX AND ASSOCIATED CONDUIT FOR REUSE. (N) SWITCH SHOULD BE MOUNTED IN SAME LOCATION, SEE FLOOR PLAN - LIGHTING.
  - 3 DISCONNECT AND REMOVE THIS LIGHT FIXTURE. REMOVE (E) CONDUIT/CONDUCTORS TO LAST REMAINING LIGHT FIXTURE.
  - 4 PROTECT LIGHT FIXTURE AND ASSOCIATED SWITCHING. ADJUST (E) LIGHTING CIRCUIT TO POWER REMAINING LIGHT FIXTURE CORRECTLY.
  - 5 REMOVE EXIT LIGHT. INSURE THAT REMAINING EXIT LIGHTS ARE WORKING CORRECTLY.
  - 6 PROTECT EXIT LIGHT.
  - 7 REMOVE (E) RECEPTACLES IN THIS SPACE. REMOVE WIRING BACK TO SOURCE. INSURE CIRCUIT CONTINUITY FOR REMAINING DEVICES OUTSIDE OF DEMOLITION AREA.
  - 8 REMOVE (E) DATA/PHONE OUTLETS IN THIS SPACE. REMOVE CABLING BACK TO SOURCE.
  - 9 DISCONNECT POWER TO (E) WATER HEATER. REMOVE WIRING BACK TO SOURCE.
  - 10 REMOVE (E) FIRE ALARM DEVICE. INSURE FIRE ALARM CIRCUIT CONTINUITY FOR REMAINING FIRE ALARM DEVICE ON COMMON CIRCUIT.
  - 11 DISCONNECT AND REMOVE (E) WALL MOUNTED SPEAKER. REMOVE WIRING BACK TO SOURCE.
  - 12 CEILING MOUNTED VoIP SPEAKER. CAREFULLY REMOVE AND PROTECT FOR REUSE.
  - 13 DISCONNECT AND REMOVE RECEPTACLE. REMOVE WIRING BACK TO SOURCE. INSURE REMAINING DEVICE CIRCUIT CONTINUITY.
  - 14 DISCONNECT AND REMOVE DATA OUTLET. REMOVE CABLING BACK TO SOURCE.
  - 15 (E) WIRELESS ACCESS POINT. CAREFULLY DISCONNECT AND PROTECT FOR REUSE. PROTECT (E) CABLING FOR RECONNECTION OF WAP AT DIFFERENT LOCATION.
  - 16 (E) CCTV CAMERA. CAREFULLY DISCONNECT AND PROTECT FOR REUSE. PROTECT (E) CABLING FOR RECONNECTION OF CAMERA AT DIFFERENT LOCATION.
  - 17 (E) FIRE ALARM DEVICE. CAREFULLY DISCONNECT AND PROTECT FOR REUSE. PROTECT (E) CABLING FOR RECONNECTION OF FA DEVICE AT DIFFERENT LOCATION.
  - 18 DISCONNECT KITCHEN HOODS AND REMOVE WIRING BACK TO SOURCE. REMOVE EXPOSED CONDUITS.



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 VENTURE ACADEMY  
 DEMOLITION -  
 ELECTRICAL

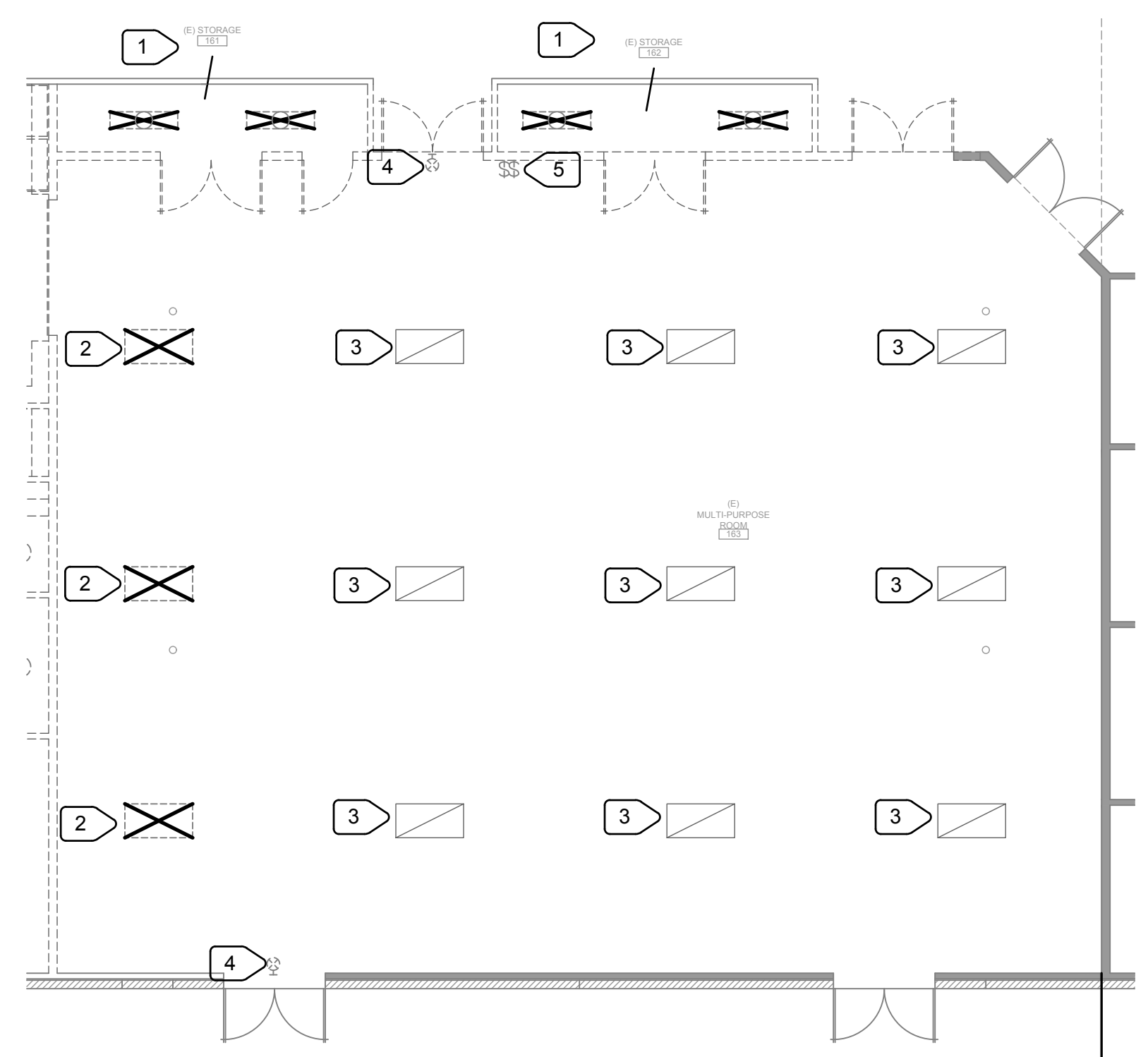


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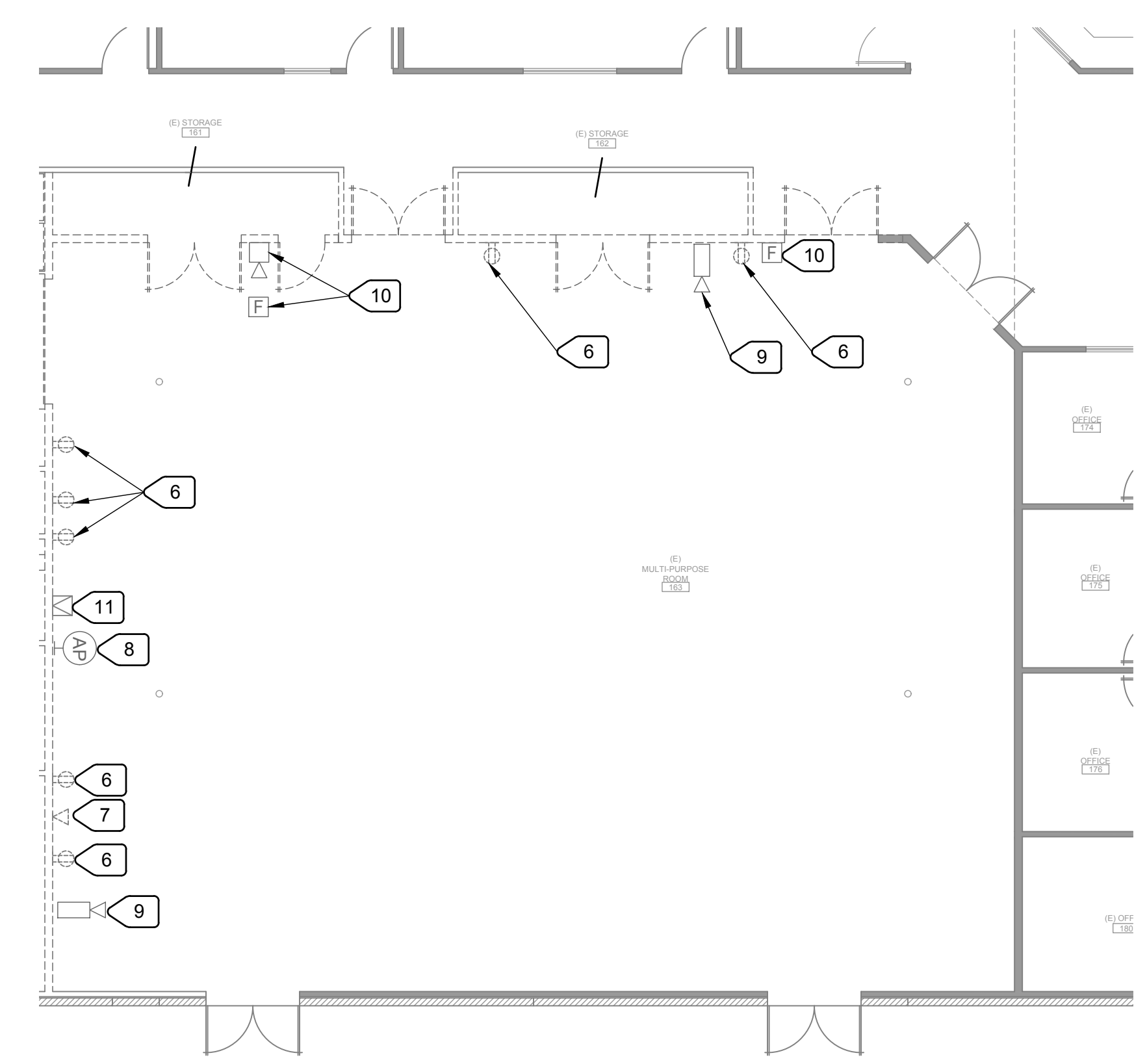
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**E200**

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**1 PARTIAL FLOOR PLAN - LIGHTING DEMOLITION**  
 E200.1 SCALE :1/8" = 1'-0"

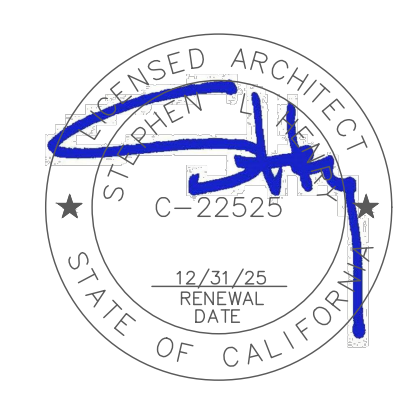


NOT ALL DEVICES ARE SHOWN. CONTRACTOR SHALL VISIT SITE PRIOR TO BID AND SUBMIT PRE-BID RFI FOR SPECIFIC DEVICES.  
**2 PARTIAL FLOOR PLAN - ELECTRICAL DEMOLITION**  
 E200.1 SCALE :1/8" = 1'-0"

- NUMBERED NOTES:**
- 1 DISCONNECT AND REMOVE (E) LIGHT FIXTURES IN THIS SPACE. DISCONNECT (E) SWITCHES AND OCC. SENSORS AND REMOVE. REMOVE (E) LIGHTING CIRCUIT TO LAST REMAINING LIGHT FIXTURE. INSURE THAT REMAINING LIGHT FIXTURES ARE IN WORKING CONDITION. PROTECT (E) UNSWITCHED LIGHTING CIRCUIT FOR CONNECTION OF (N) LIGHT FIXTURES - SEE 1/E210.
  - 2 DISCONNECT AND REMOVE THIS LIGHT FIXTURE. REMOVE (E) CONDUIT/CONDUCTORS TO LAST REMAINING LIGHT FIXTURE.
  - 3 PROTECT LIGHT FIXTURE AND ASSOCIATED SWITCHING. ADJUST (E) LIGHTING CIRCUIT TO POWER REMAINING LIGHT FIXTURE CORRECTLY.
  - 4 REMOVE EXIT LIGHT. INSURE THAT REMAINING EXIT LIGHTS ARE WORKING CORRECTLY.
  - 5 REMOVE SWITCHES. PROTECT SWITCH LEGS FOR RECONNECTING - SEE LIGHTING PLAN.
  - 6 DISCONNECT AND REMOVE RECEPTACLE. REMOVE WIRING BACK TO SOURCE. INSURE REMAINING DEVICE CIRCUIT CONTINUITY.
  - 7 DISCONNECT AND REMOVE DATA OUTLET. REMOVE CABLING BACK TO SOURCE.
  - 8 (E) WIRELESS ACCESS POINT. CAREFULLY DISCONNECT AND PROTECT FOR REUSE. PROTECT (E) CABLING FOR RECONNECTION OF WAP AT DIFFERENT LOCATION.
  - 9 (E) CCTV CAMERA. CAREFULLY DISCONNECT AND PROTECT FOR REUSE. PROTECT (E) CABLING FOR RECONNECTION OF CAMERA AT DIFFERENT LOCATION.
  - 10 (E) FIRE ALARM DEVICE. CAREFULLY DISCONNECT AND PROTECT FOR REUSE. PROTECT (E) CABLING FOR RECONNECTION OF FA DEVICE AT DIFFERENT LOCATION.
  - 11 DISCONNECT AND REMOVE (E) WALL MOUNTED SPEAKER. REMOVE WIRING BACK TO SOURCE.



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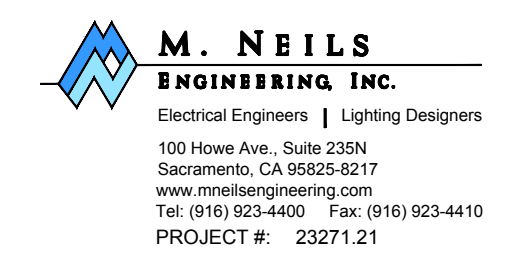


**CULINARY LAB  
 VENTURE ACADEMY**  
**DEMOLITION -  
 ELECTRICAL**

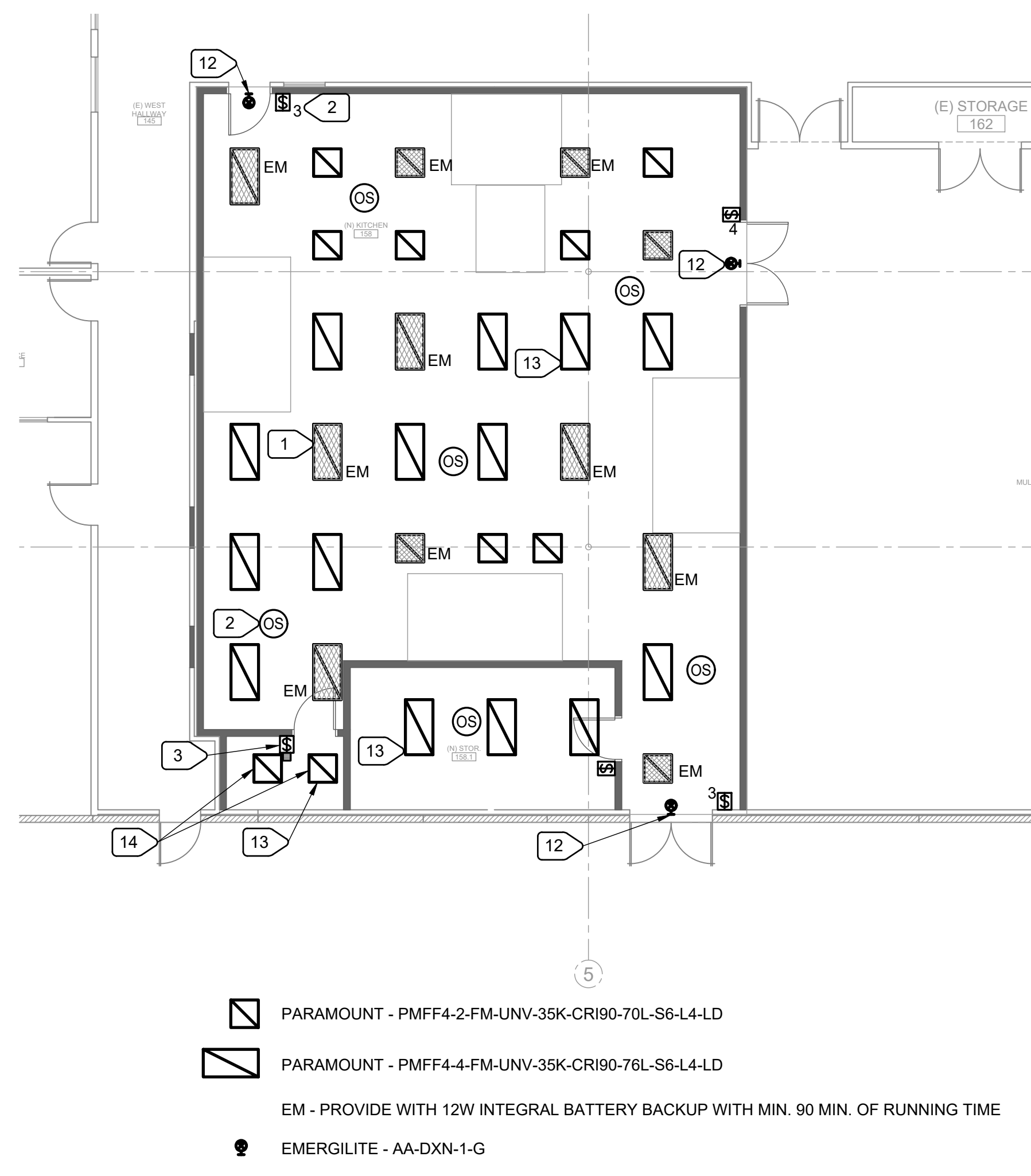


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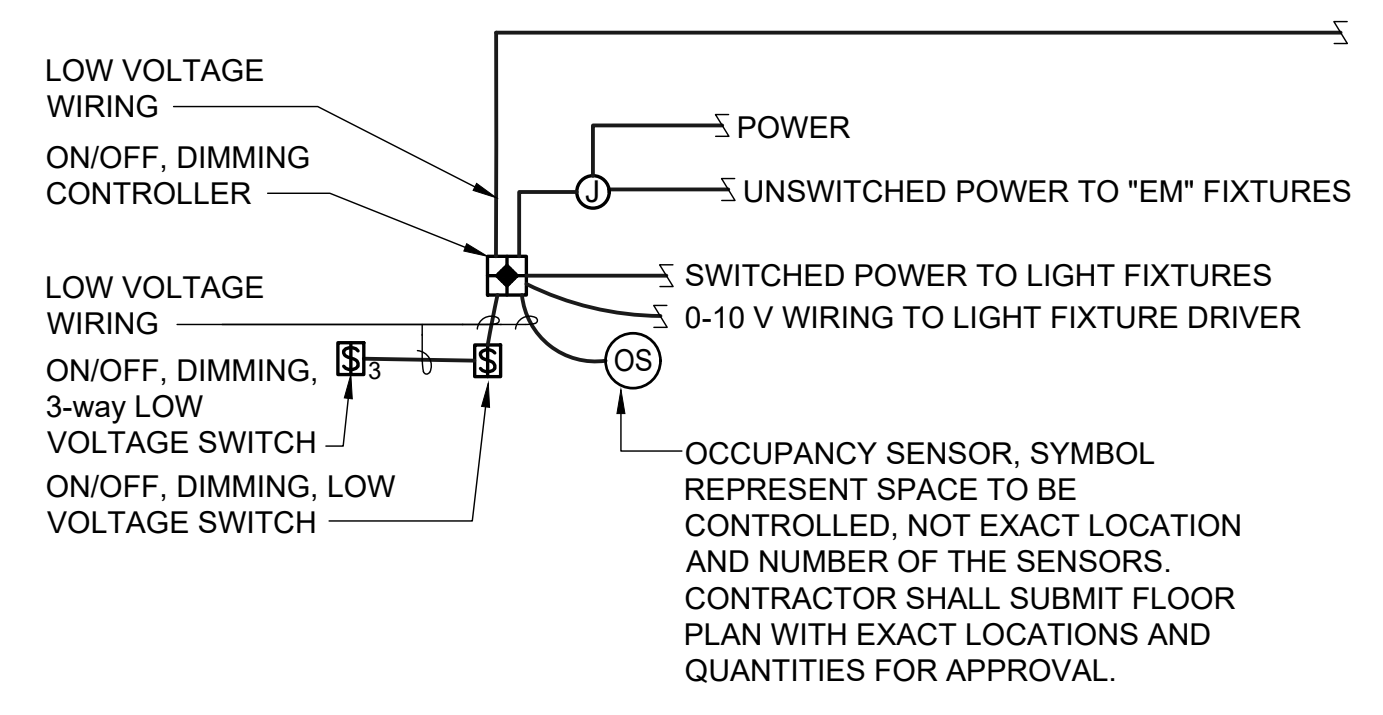
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**E200.1**



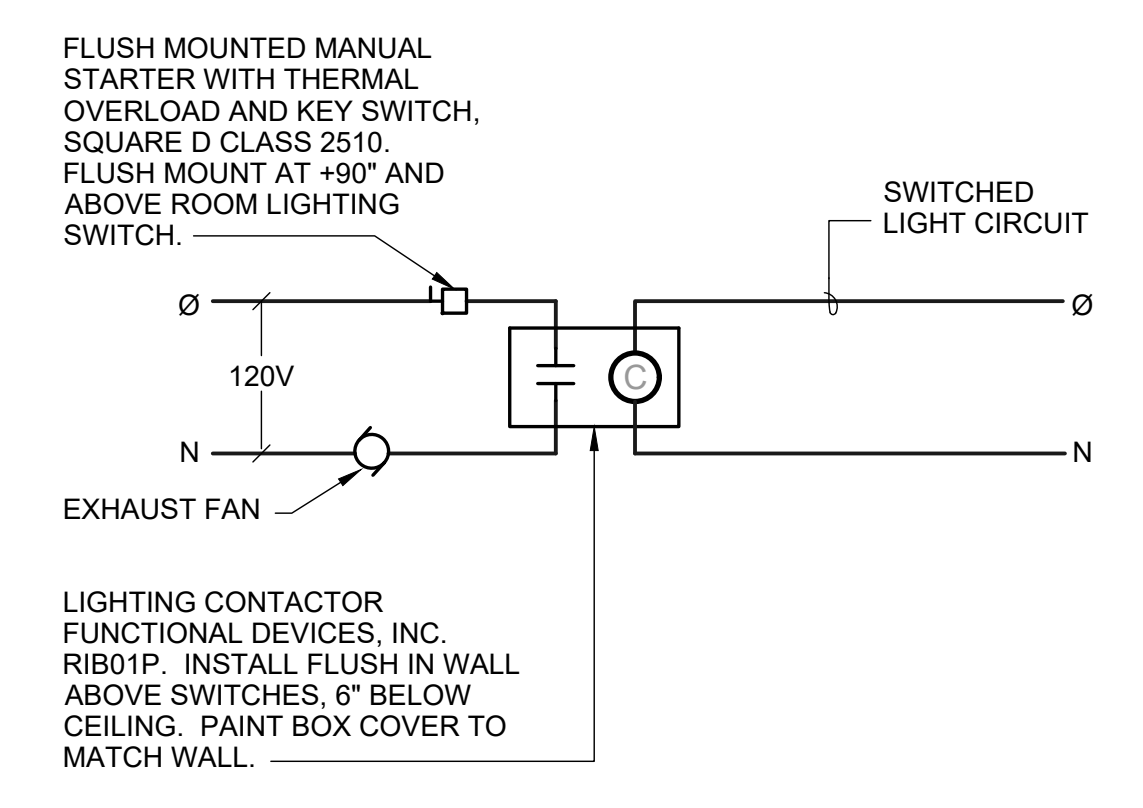
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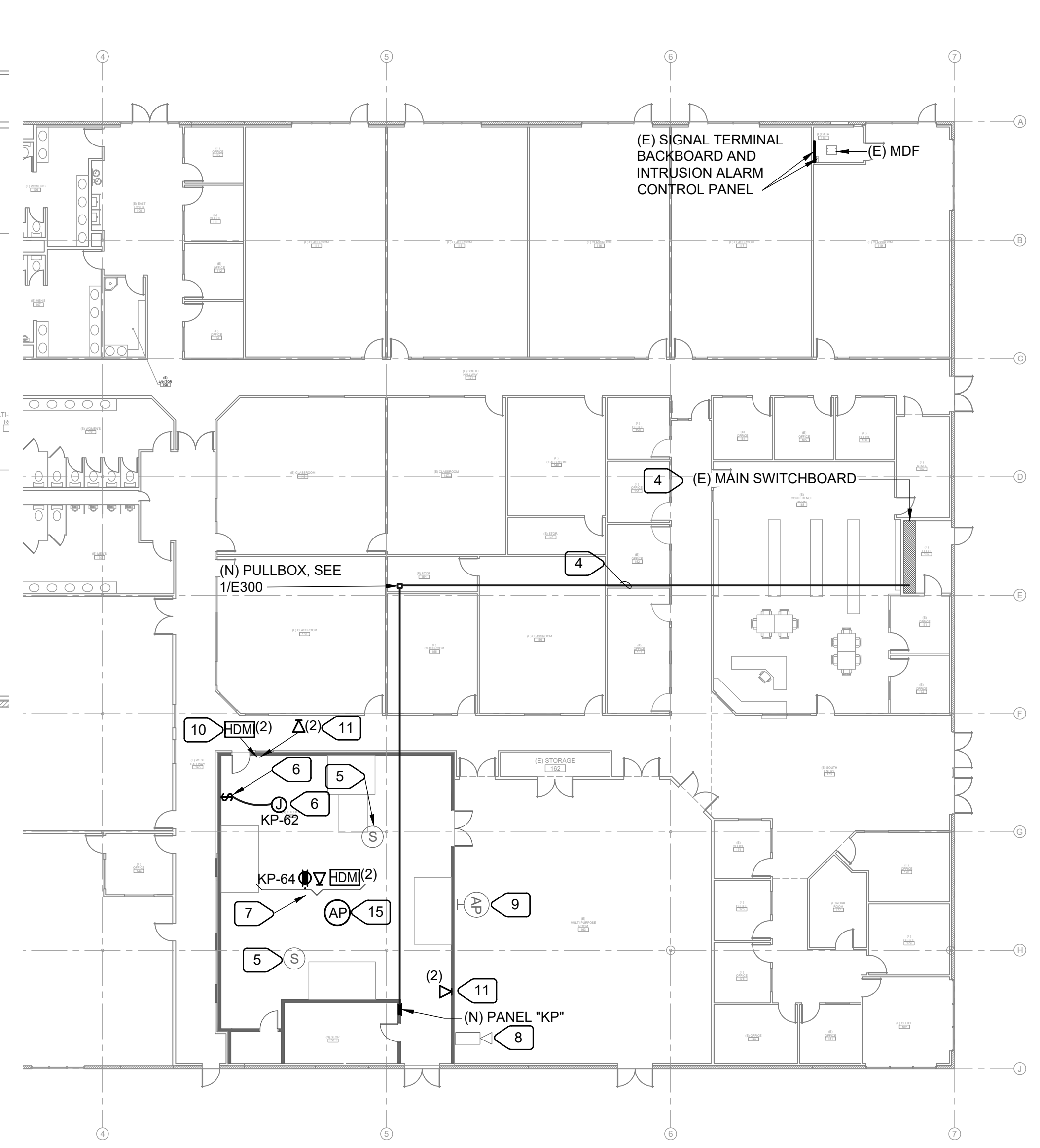
**1 PARTIAL FLOOR PLAN - LIGHTING**  
 E210 SCALE : 1/8" = 1'-0"



**3 LIGHTING CONTROL DIAGRAM**  
 E210 SCALE : NO SCALE



**4 LIGHTING/EF DIAGRAM**  
 E210 SCALE : NO SCALE



DATA CABLES SHALL BE RUN TO MDF  
**2 PARTIAL FLOOR PLAN - ELECTRICAL**  
 E210 SCALE : 1/16" = 1'-0"

- NUMBERED NOTES:**
- 1 PROVIDE UNSWITCHED "HOT" TO EM FIXTURES, TYPICAL.
  - 2 SEE LIGHTING SWITCHING DIAGRAM FOR SWITCHES, SENSORS, CONNECTIONS, ETC. TYPICAL.
  - 3 PROVIDE LINE VOLTAGE SWITCH WITH OCC. SENSOR.
  - 4 REFER TO ONE LINE DIAGRAM - POWER FOR (N) CIRCUIT BREAKER, CONDUIT, CONDUCTORS, PULLBOX, ETC. RUN CONDUIT IN ABOVE CEILING SPACE.
  - 5 REINSTALL (E) SALVAGED SPEAKERS - SEE DEMOLITION PLAN. RUN (N) CAT6 CABLES TO (E) MDF.
  - 6 PROVIDE FOR AND CONNECT PROJECTION SCREEN. ELECTRICAL CONTRACTOR TO INSTALL SWITCH FURNISHED BY OTHERS. LOCATION OF SWITCH SHALL BE COORDINATED IN FIELD BEFORE ROUGH IN. SHOWN LOCATION IS FOR REFERENCE ONLY.
  - 7 PROVIDE FOR PROJECTOR. PROJECTOR IS OWNER FURNISHED CONTRACTOR INSTALLED. PROVIDE DATA OUTLET ADJACENT TO POWER RECEPTACLE. CONNECT DATA TO (E) MDF. PROVIDE (2) HDMI OUTLETS ADJACENT TO DATA OUTLET.
  - 8 REINSTALL (E) CCTV CAMERA (SEE DEMOLITION PLAN). AND RECONNECT TO (E) DATA CABLES. INSURE THAT CAMERA WORKS PROPERLY.
  - 9 REINSTALL (E) WIRELESS ACCESS POINT (SEE DEMOLITION PLAN) AND RECONNECT TO (E) DATA CABLES. INSURE THAT WAP WORKS PROPERLY.
  - 10 PROVIDE (2) HDMI OUTLETS AND CONNECT TO HDMI OUTLETS AT PROJECTOR LOCATION. COORDINATE EXACT LOCATION OF HDMI OUTLETS WITH ARCHITECT BEFORE ROUGH IN.
  - 11 DATA OUTLET IS SHOWN FOR REFERENCE ONLY. EXACT LOCATION SHALL BE COORDINATED WITH ARCHITECT BEFORE ROUGH IN. PROVIDE CAT6A JACKS AND CABLES TO (E) MDF. PROVIDE 3/4" STUBBED IN ACCESSIBLE ATTIC SPACE. RUN DATA CABLES IN ACCESSIBLE ATTIC SPACE SUPPORTED BY J-HOOKS. PROVIDE J-HOOK 12" FROM CONDUIT TRANSITION AND EVERY 5' AFTER THAT.
  - 12 PROVIDE UNSWITCHED "HOT" TO EXIT LIGHTS.
  - 13 CONNECT (N) LIGHTS SHOWN ON THIS PLAN TO (E) SALVAGED LIGHTING CIRCUIT. SEE NOTE 1, SHEET E200. TYPICAL.
  - 14 EXHAUST FAN EF-1 (SEE ROOF PLAN) SHALL BE CONNECTED TO SWITCH WITH LIGHTS IN THIS ROOM. SEE 4/E210 FOR CONNECTION.
  - 15 WIRELESS ACCESS POINT IS OWNER FURNISHED CONTRACTOR INSTALLED. RUN (2) CAT6A CABLES FROM WAP TO (E) MDF.

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**HENRY+ ASSOCIATES ARCHITECTS**

REGISTERED ARCHITECT  
 STATE OF CALIFORNIA  
 C-22523  
 12/31/25 RENEWAL DATE

**CULINARY LAB VENTURE ACADEMY**  
**PARTIAL FLOOR PLANS - LIGHTING, ELECTRICAL**

CONSULTANT  
  
 REGISTERED PROFESSIONAL ENGINEER  
 TYTE E. J. VAN ZANTDT  
 No. E15483  
 Exp. 6/30/25  
 Tyte E. J. Van Zandt  
 STATE OF CALIFORNIA  
 03-19-2024

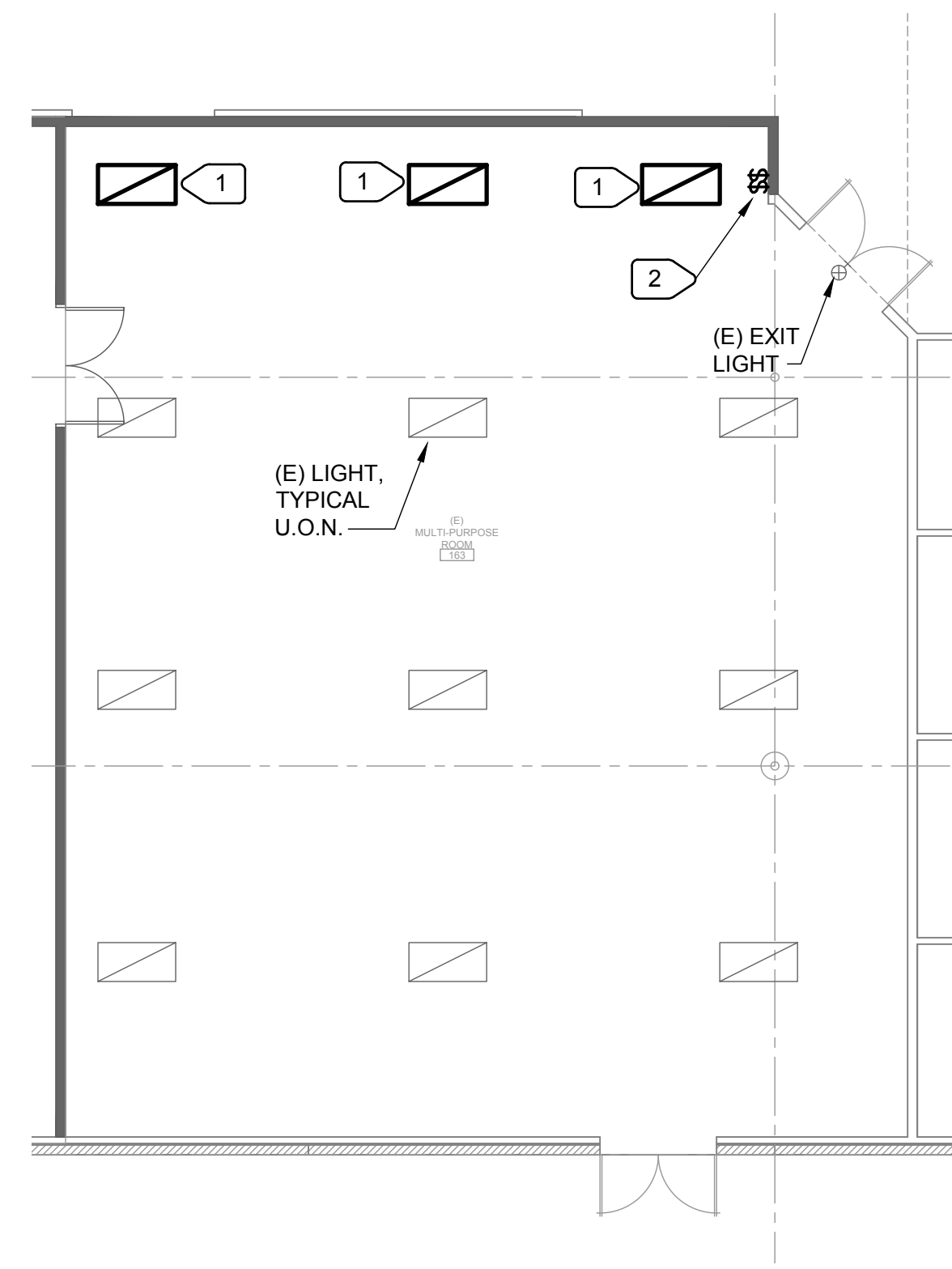
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E210

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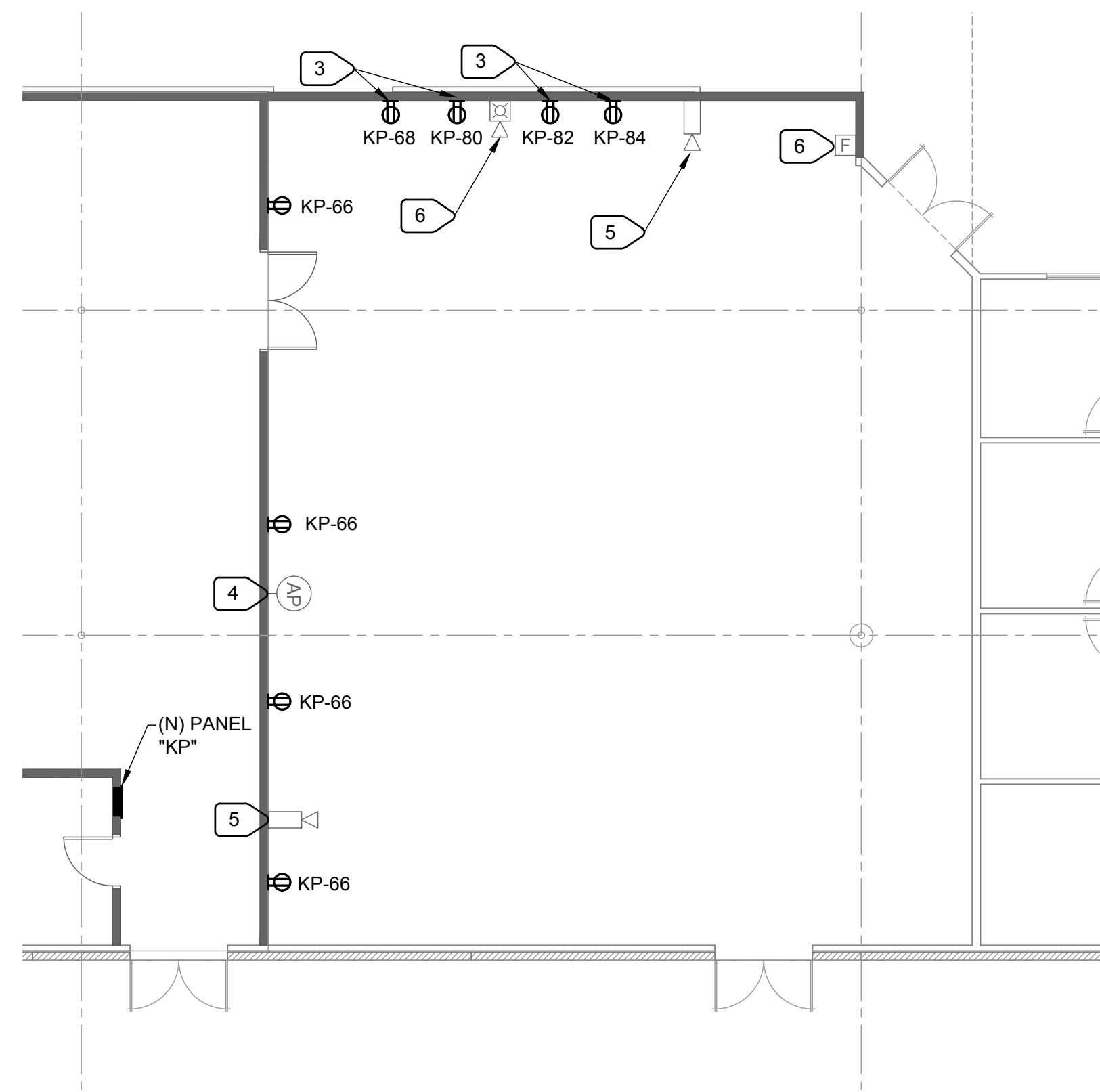


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- NUMBERED NOTES:**
- 1 PROVIDE (N) LIGHT FIXTURE TO MATCH EXISTING IN ROOM. CONNECT TO (E) LIGHTING CIRCUIT.
  - 2 PROVIDE (N) SWITCHES. EXTEND (E) SWITCH LEGS (SEE DEMO PLAN).
  - 3 RECEPTACLE FOR MOBILE FOOD EQUIPMENT - SHOWN FOR REFERENCE. EXACT LOCATION SHALL BE COORDINATED WITH ARCHITECT BEFORE ROUGH IN.
  - 4 INSTALL (E) WIRELESS ACCESS POINT (SEE DEMO PLAN). ADJUST AS REQUIRED.
  - 5 INSTALL (E) CCTV CAMERA (SEE DEMO PLAN). ADJUST AS REQUIRED.
  - 6 INSTALL (E) FIRE ALARM DEVICE. CONNECT INTO (E) FIRE ALARM CIRCUITS. ADJUST AS REQUIRED.

**1 PARTIAL FLOOR PLAN - LIGHTING**  
 E210.1 1/8" = 1'-0"



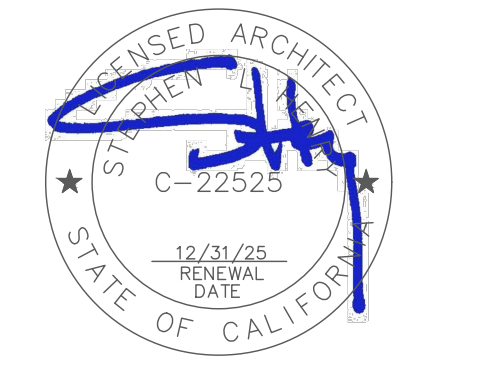
**2 PARTIAL FLOOR PLAN - ELECTRICAL**  
 E210.1 1/8" = 1'-0"

NEW PANEL "KP" SCHEDULE									
POWER SOURCE: MAIN SWITCHBOARD					LOCATION: SEE PLAN				
SYSTEM: NORMAL BRANCH									
TYPE:	BUS: 225 AMPS	MAIN BKR: 225A	VOLTAGE: 208Y/120 VOLT, 3 PHASE, 4 WIRES			MOUNTING: FLUSH PANEL TYPE NEMA 1		REMARKS: SEE NOTE BELOW	
LOAD SERVED	KVA	CB	CKT	PHASE	CKT	CB	KVA	LOAD SERVED	
FIRE SUPPRESSION SYST.	0.5	20/1 [2]	1	A	2	20/2	0.9	KEF-1	
SPARE		20/1	3	B	4		0.9		
FRYER	1.1	20/1 [3]	5	C	6	20/2	0.9	KEF-2	
			7	A	8		0.9		
FRYER	1.1	20/1 [3]	9	B	10	20/2	0.9	KEF-3	
			11	C	12		0.9		
DOUBLE STACK OVEN	0.9	20/1 [3]	13	A	14	20/1	0.5	ROOF RECEPTACLE	
			15	B	16	20/1	0.5	SHUNT TRIP POWER	
WARMING CABINET	1.7	20/1	17	C	18	20/1		SPARE	
HEAT LAMP	1.0	20/1	19	A	20	20/1		SPARE	
RANGE	0.2	20/1 [3]	21	B	22	20/1 [3]	0.2	RANGE	
			23	C	24				
REFRIGERATOR	0.5	20/1	25	A	26	20/1 [3]	0.2	RANGE	
REFRIGERATOR	1.0	20/1	27	B	28				
REFRIGERATOR	1.0	20/1	29	C	30	20/1	1.0	WORKTABLE REC.	
REFRIGERATOR	1.0	20/1	31	A	32	20/1	1.0	WORKTABLE REC.	
MIXER	1.2	20/1	33	B	34	20/1	1.0	WORKTABLE REC.	
MIXER	1.2	20/1	35	C	36	20/1	1.0	WORKTABLE REC.	
MIXER	1.2	20/1	37	A	38	20/1	1.0	WORKTABLE REC.	
SPARE		20/1	39	B	40	20/1	1.0	WORKTABLE REC.	
RANGE	0.2	20/1 [3]	41	C	42	20/1	1.0	WORKTABLE REC.	
			43	A	44	20/1	1.0	WORKTABLE REC.	
RANGE	0.2	20/1 [3]	45	B	46	20/1	1.0	WORKTABLE REC.	
			47	C	48	20/1	1.0	WORKTABLE REC.	
FIRE SUPPRESSION SYST.	0.5	20/1 [2]	49	A	50	20/1	1.0	WORKTABLE REC.	
ICE MAKER	0.9	20/1	51	B	52	20/1	1.0	WORKTABLE REC.	
AIR CURTAIN	0.5	20/1	53	C	54	20/1		SPARE	
FREEZER	0.8	20/1	55	A	56		6.4		
REFRIGERATOR	0.6	20/1	57	B	58	70/3	6.4	WAREWASHER	
RANGE	0.2	20/1 [3]	59	C	60		6.4		
			61	A	62	20/1	0.2	MOTORIZED SCREEN	
RANGE	0.2	20/1 [3]	63	B	64	20/1	0.8	PROJECTOR	
			65	C	66	20/1	0.6	RECEPTACLES	
GENERAL RECEPTACLE	0.8	20/1	67	A	68	20/1	0.7	RECEPTACLES	
GENERAL RECEPTACLE	0.8	20/1	69	B	70		0.8	RECEPTACLES	
GAS SHUT OFF	0.2	20/1 [2]	71	C	72	20/2	0.8	KEF-4	
FIRE SUPPRESSION CONT.	0.5	20/1 [2]	73	A	74		0.8		
GW-H-1/CP-1/TP-1	0.1	20/1	75	B	76	20/2	0.8	KEF-5	
DRYER	1.8	30/2	77	C	78	20/1	0.5	EF-1	
DRYER	1.8	30/2	79	A	80	20/1	0.7	RECEPTACLES	
WASHER	1.0	20/1	81	B	82	20/1	0.7	RECEPTACLES	
SPARE		20/1	83	C	84	20/1	0.7	RECEPTACLES	

NOTES:		CONNECTED LOAD	
[1] GFCI BREAKER		PHASE A=	24.8 KVA
[2] PROVIDE WITH RED HANDLE AND LOCKING DEVICE		PHASE B=	23.3 KVA
[3] PROVIDE SHUNT TRIP BREAKER		PHASE C=	22.7 KVA
		TOTAL =	70.8 KVA
		TOTAL =	196.7 Amperes

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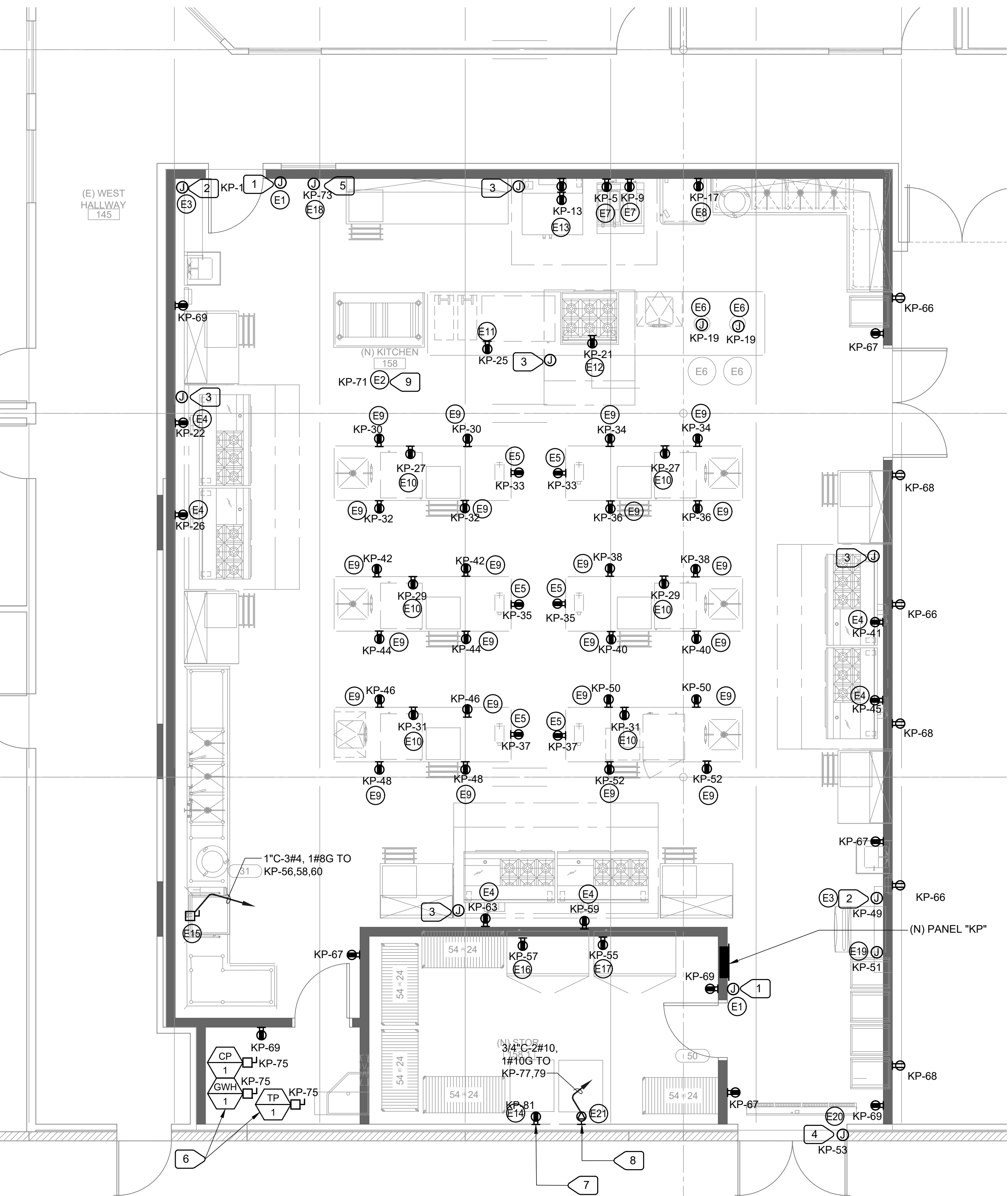


CULINARY LAB VENTURE ACADEMY  
 PARTIAL FLOOR PLANS - LIGHTING, ELECTRICAL



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**1 KITCHEN PLAN - ELECTRICAL**  
 E220 SCALE: 1/4" = 1'-0"

### ELECTRICAL SCHEDULE

ELEC. NO.	ITEM NO.	DESCRIPTION	QTY.	VOLT.	PH	DIRECT PLUG	NEMA	LOAD			OUTLET HEIGHT	REMARKS	NOTE(S)	
								WATT	AMPS. DRAW	HP				
E1	4.1	FIRE SYSTEM (REMOTE PULL STATION)	2EA.	-	-	X	-	-	-	-	+48"	EMPTY FLUSH MTD. OCTAGONAL BOX (REMOTE PULL) SEE FSS.3	1	
E2	4.1	FIRE SYSTEM ELECTRIC GAS S/O VALVE REFER TO PLUMBING PLANS FOR LOCATION	1EA.	120	1	X	-	-	-	-	-	PROVIDE J-BOX CONNECT TO UNIT ELECTRICAL CONNECTION REFER TO FSS.3	2, 5	
E3		POWER AT ANSUL FIRE CABINET	2EA.	120	1	X	-	-	20	-	+104"	PROVIDE J-BOX CONNECT TO UNIT ELECTRICAL CONNECTION REFER TO FSS.3	5	
E4		RANGE W/ CONVECTION BASE	6EA.	120	1	-	X	5-15P	-	4	+18"	PROVIDE DUPLEX RECEPTACLE UNIT PROVIDED WITH CORD AND PLUG SET	4	
E5		TABLE TOP MIXER	6EA.	120	1	-	X	5-15P	500	-	+28"	PROVIDE DUPLEX RECEPTACLE HORIZONTALLY ON SKIRT UNDER TABLE TOP UNIT PROVIDED WITH CORD AND PLUG		
E6		CEILING MOUNTED HEAT LAMPS	2EA.	120	1	X	-	-	375	-	AT CEILING	INSTALLED UNDER ELECTRICAL DIVISION		
E7		FRYER, DEEP FAT, ELECTRIC W/FILTER	2EA.	120	1	-	X	5-15P	-	6.8	1/3	+28"		4
E8		CABINET, MOBILE, WARMING & HOLDING	1EA.	120	1	-	X	5-15P	1700	14.2	-	+80"	PROVIDE DUPLEX RECEPTACLE IN WALL UNIT PROVIDED WITH CORD AND PLUG SET	
E9		CONVENIENCE OUTLET UNDER WORKTABLE	24EA.	120	1	-	X	5-15P	-	15	-	+28"	PROVIDE DUPLEX RECEPTACLE HORIZONTALLY ON SKIRT UNDER TABLE TOP	
E10		REFRIGERATOR UNDER COUNTER REACH-IN	6EA.	120	1	-	X	5-15P	-	2	1/6	+18"	PROVIDE DUPLEX RECEPTACLE IN WORK TABLE UNIT PROVIDED WITH CORD AND PLUG SET	
E11		REFRIGERATOR UNDER COUNTER REACH-IN	1EA.	120	1	-	X	5-15P	-	3	1/5	+18"	PROVIDE DUPLEX RECEPTACLE IN WORK TABLE UNIT PROVIDED WITH CORD AND PLUG SET	
E12		RANGE W/ CONVECTION BASE	1EA.	120	1	-	X	5-15P	-	4	-	+18"	PROVIDE DUPLEX RECEPTACLE IN WORK TABLE UNIT PROVIDED WITH CORD AND PLUG SET	4
E13		DOUBLE STACK ELECTRIC CONVECTION OVEN	1EA.	120	1	-	X	5-15P	-	7.7	1/2	+18"	PROVIDE DUPLEX RECEPTACLE IN WALL UNIT PROVIDED WITH CORD AND PLUG SET	4, 8
E14		TOP LOADING WASHER UNIT (ACCESSIBLE)	1EA.	120	1	-	X	5-15P	-	7.7	1/2	+36"	PROVIDE DUPLEX RECEPTACLE IN WALL UNIT PROVIDED WITH CORD AND PLUG SET	
E15		HIGH TEMP WAREWASHER W/ SINGLE POINT CONNECTION	1EA.	208/240	3	X	-	-	-	53.5	-	+18"	PROVIDE J-BOX IN WALL/ SINGLE POINT CONNECTION OPTION	6
E16		REFRIGERATOR REACH-IN	1EA.	120	1	-	X	5-15P	-	5.4	1/2	+88"	PROVIDE DUPLEX RECEPTACLE IN WALL UNIT PROVIDED WITH CORD AND PLUG SET	
E17		FREEZER REACH-IN	1EA.	120	1	-	X	5-15P	-	9.6	1/2	+88"	PROVIDE DUPLEX RECEPTACLE IN WALL UNIT PROVIDED WITH CORD AND PLUG SET	
E18		TOUCH SCREEN USER INTERFACE/ ARTD (ROOM SENSOR) /CONTROL POWER	1EA.	120	1	-	-	-	-	5	-	+48"	CONNECT TO DEMANDAIRE CONTROL PANEL RECESS IN WALL REFER TO FSS.9 FOR ELECTRICAL SCHEMATIC	3, 5, 7
E19		ICE MAKER	1EA.	120	1	X	-	-	-	8.8	-	+60"	PROVIDE J-BOX IN WALL CONNECT TO UNIT ELECTRICAL CONNECTION	
E20		UNHEATED AIR CURTAIN	1EA.	120	1	X	-	-	-	3.4	1/6	+86"	PROVIDE J-BOX IN WALL INSTALL DOOR LIMIT SWITCH FOR INSTANT ON/OFF SWITCH, SEE C/FS.2	9
E21		FRONT LOADING DRYER UNIT (ACCESSIBLE)	1EA.	208/240	1	-	X	-	-	-	+36"	PROVIDE SIMPLEX RECEPTACLE IN WALL UNIT PROVIDE WITH CORD AND PLUG SET		

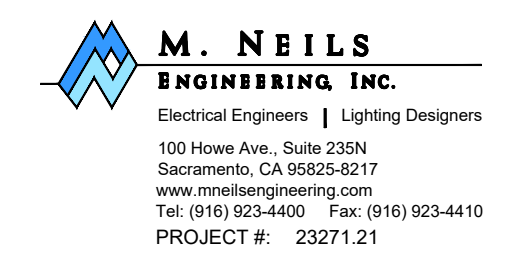
- ELECTRICAL KEYNOTES:**
- PROVIDE EMPTY FLUSH MTD. OCTAGONAL BOX @ +48" AFF. W/ EMPTY CONDUIT TO +2" ABOVE CEILING.
  - ELECTRICAL CONTRACTOR TO PROVIDE J-BOX W/ EMPTY CONDUIT FROM +2" ABOVE CEILING IN WALL TO AMBIENT TEMPERATURE MONITOR AND HMI TOUCH SCREEN.
  - INTERCONNECT TO HMI TOUCH SCREEN SEE FSS.9
  - PROVIDE INTERLOCK WIRING FROM FIRE PROTECTION SYSTEMS TO ELEC. SHUNT TRIP BREAKERS
  - VERIFY AND PROVIDE ALL J-BOXES, ELECTRICAL CONDUIT AND CONNECTIONS NEEDED FOR PROPER OPERATION / CONFIGURATION OF EXHAUST HOOD AND FIRE SYSTEM. REFER TO FSS.1-FSS.3 FOR DETAILS.
  - PROVIDE ALL REQUIRED COMPONENTS FOR SINGLE POINT CONNECTION
  - TOUCH SCREEN UI TO CONTROL EACH HOOD INDIVIDUALLY
  - CONNECTIONS ARE PER DECK 1 @ 18" AND 1 @ 48"
  - PROVIDE 1 SWITCH PER DOOR

#### GENERAL NOTES:

- SEE FOOD SERVICE ELECTRICAL SCHEDULE FOR ADDITIONAL INFORMATION.
- RECEPTACLES INSTALLED UNDER HOOD WITH FIRE SUPPRESSION SYSTEM SHALL BE CONNECTED TO SHUNT TRIP CIRCUIT BREAKER. SEE 4/E400.

#### NUMBERED NOTES:

- PROVIDE EMPTY BOX PER F.S. REQUIREMENTS FOR FIRE SUPPRESSION SYSTEM PULL STATION. PROVIDE 3/4" C BETWEEN BOX AND FIRE SUPPRESSION SYSTEM W/ PULL ROPE.
- FIRE SUPPRESSION CONTROL CABINET. PROVIDE POWER AND FA CONNECTION. SEE 4/E400 FOR ADDITIONAL INFORMATION.
- CONNECT HOOD LIGHTING. SEE 5/E400 FOR HOOD LIGHT CONNECTIONS.
- CONNECT VIA DOOR SWITCH FURNISHED BY FOOD CONTRACTOR. PROVIDE ALL APPURTENANCES FOR COMPLETE INSTALLATION PER MANUFACTURER REQUIREMENTS. COORDINATE BEFORE ROUGH IN.
- FIRE SUPPRESSION CONTROL PANEL. SEE 5/E400 FOR CONNECTION BETWEEN CONTROL PANEL, FIRE SUPPRESSION UNITS, HOODS, AMBIENT TEMP DETECTOR, MECHANICAL, AND FIRE ALARM CONTROLS.
- SEE PLUMBING DRAWING FOR EXACT LOCATION AND ADDITIONAL REQUIREMENTS.
- PROVIDE FOR WASHER, WASHER PROVIDED BY OWNER.
- PROVIDE FOR DRYER, DRYER PROVIDED BY OWNER.
- FOR GAS SHUTOFF, POWER VIA FIRE SUPPRESSION CONTROL PANEL. SEE 5/E400 FOR ADDITIONAL INFORMATION.



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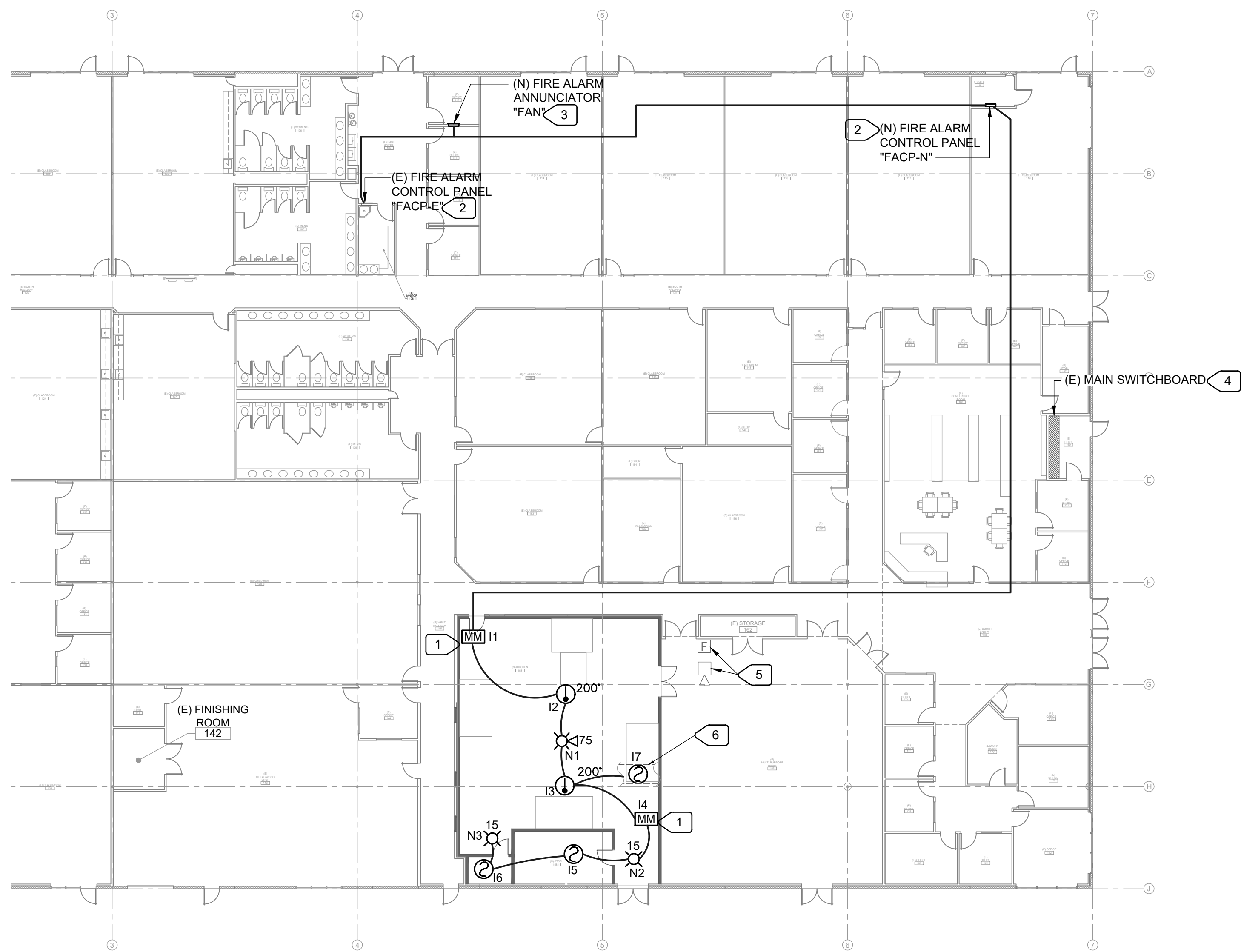
**CULINARY LAB VENTURE ACADEMY**  
**KITCHEN PLAN - ELECTRICAL**



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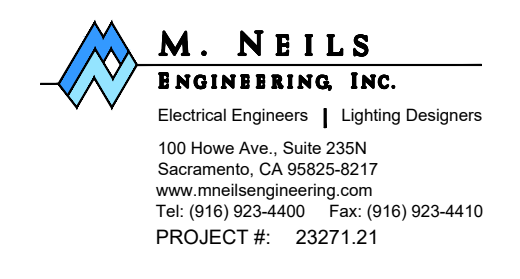


1  
 E230  
 SPACE ABOVE CEILING IS SPRINKLERED, THEREFORE HEAT DETECTORS ABOVE CEILING ARE NOT REQUIRED  
**PARTIAL FLOOR PLAN - FIRE ALARM**  
 SCALE : 1/16" = 1'-0"

- NUMBERED NOTES:**
- 1 FOR HOOD FIRE SUPPRESSION SYSTEM, SEE 4/E400.
  - 2 CONNECT (E) AND (N) FIRE ALARM CONTROL PANEL TO WORK SIMULTANEOUSLY. FIRE ALARM CONDITION ON ONE PANEL SHALL TRIGGER FIRE ALARM CONDITION ON OTHER PANEL.
  - 3 COORDINATE EXACT LOCATION OF (N) ANNUNCIATOR WITH OWNER. ANNUNCIATOR SHALL BE LOCATED IN SPACE THAT SCHOOL STAFF OCCUPIES AT ALL TIME DURING REGULAR SCHOOL HOURS.
  - 4 PROVIDE (N) 20/1 CIRCUIT BREAKER IN (E) SPACE. PROVIDE WITH RED HANDLE AND LOCKABLE DEVICE. PROVIDE NAMEPLATE TO READ "FIRE ALARM CONTROL PANEL LOCATED IN ROOM 118". COORDINATE EXACT PANEL LOCATION NAME ON NAMEPLATE WITH OWNER. RUN 1/2"C-2#12, 1#12G TO (N) FIRE ALARM CONTROL PANEL.
  - 5 RELOCATE (E) FIRE ALARM DEVICE TO THIS LOCATION (SEE DEMO PLAN). RECONNECT INTO (E) FIRE ALARM CIRCUIT.
  - 6 INSTALL DUCT DETECTOR AS DIRECTED BY MECHANICAL CONTRACTOR. PROVIDE W/ RELAY MODULE AND REMOTE TEST STATION. LOCATE TEST STATION AS DIRECTED BY ARCHITECT.

**FIRE ALARM NOTES:**

THIS DRAWING IS FOR REFERENCE ONLY. CONTRACTOR SHALL PROVIDE COMPLETE SET OF PLANS, CALCULATIONS, AND FIRE ALARM DEVICE CUT SHEETS/CSFM LISTINGS FOR FINAL APPROVAL BY A.H.J.



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REGISTERED ARCHITECT  
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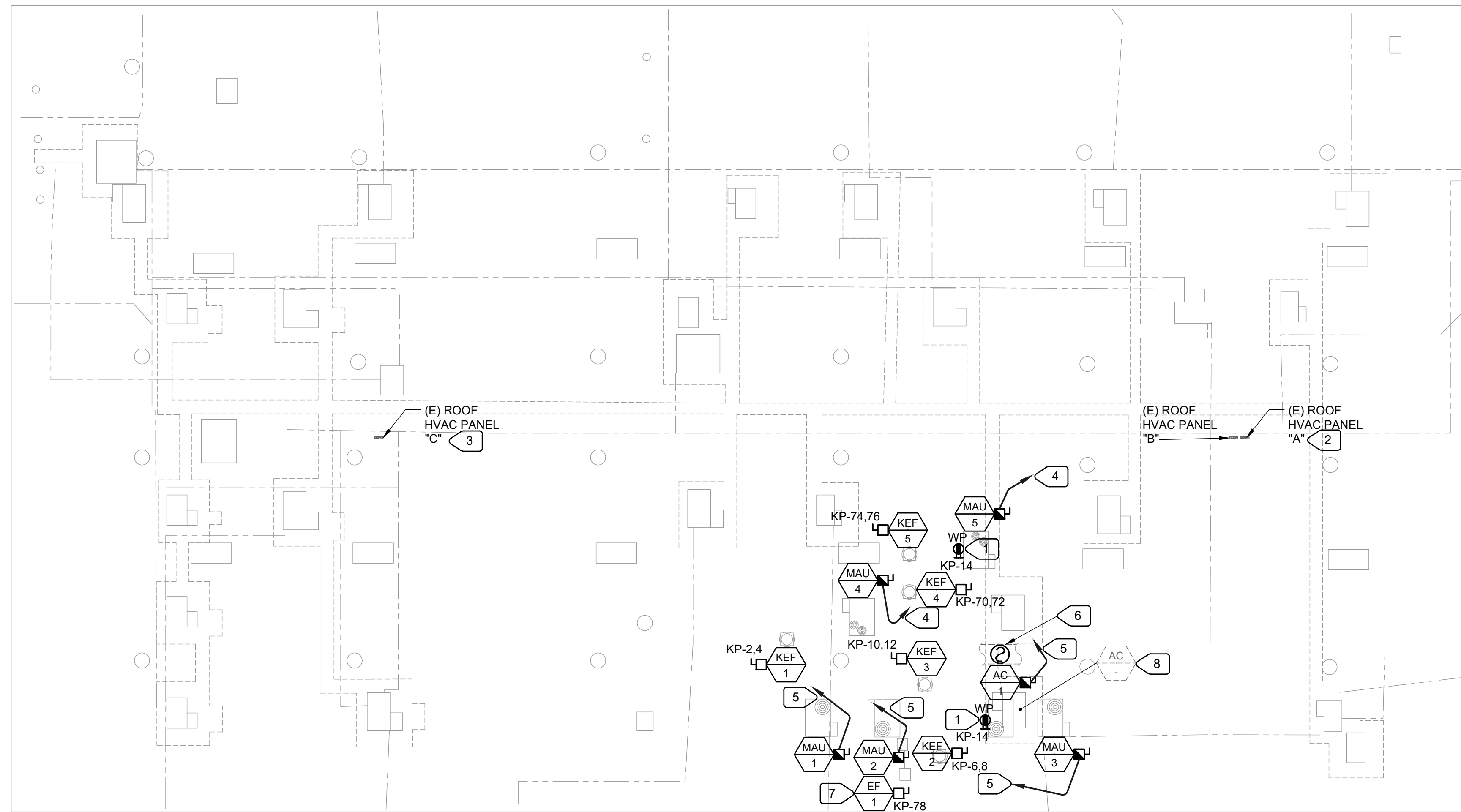
CULINARY LAB VENTURE ACADEMY  
 PARTIAL FLOOR PLAN - FIRE ALARM

CONSULTANT  

REGISTERED PROFESSIONAL ENGINEER  
 STATE OF CALIFORNIA  
 No. E15483  
 Exp. 6/30/25  
 Yvette J. Van Zanten  
 03-19-2024

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**1**  
 E240  
**ROOF PLAN - ELECTRICAL**  
 SCALE : 1/16" = 1'-0"

**HVAC EQUIPMENT DISCONNECT GENERAL NOTES:**

1. PROVIDE DISCONNECT PER CEC 440.11.
2. PROVIDE FUSES IN FUSED DISCONNECTS PER MANUFACTURE REQUIREMENTS/NAMEPLATE RATINGS.

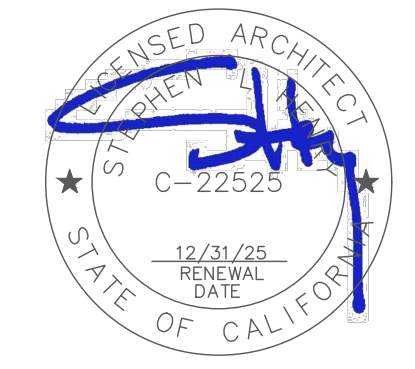
**NUMBERD NOTES:**

- 1 PROVIDE IN METAL WEATHER PROOF ENCLOSURE WITH WHILE IN USE COVER. INSTALL ON SIDE OF (N) HVAC UNIT. COORDINATE WITH MECHANICAL BEFORE ROUGH IN.
- 2 PROVIDE (2) (N) 50/3 CIRCUIT BREAKERS. REMOVE (E) SPARE 20/1 CIRCUIT BREAKERS AND REPLACE WITH (N). UPDATED PANEL DIRECTORY.
- 3 PROVIDE (4) (N) 60/3 CIRCUIT BREAKERS IN (E) SPACES. UPDATED PANEL DIRECTORY.
- 4 CONNECT TO (N) 50/3 CIRCUIT BREAKER IN PANEL "A" USING 1"C-3#6, 1#10G.
- 5 CONNECT TO (N) 60/3 CIRCUIT BREAKER IN PANEL "C" USING 1"C-3#4, 1#10G.
- 6 DUCT DETECTOR W/ RELAY MODULE FOR AC1 UNIT SHUTDOWN. SEE 1/E230 AND 1/E410 FOR CONNECTIONS AND ADDITIONAL INFORMATION.
- 7 CONNECT FAN SUCH THAT SWITCH WITH LIGHTS IN JANITOR ROOM. SEE 4/E210 FOR FAN CONNECTION.
- 8 DISCONNECT (E) HVAC UNIT. REMOVE WIRING BACK TO PANEL "B". SEE MECHANICAL PLANS FOR EXACT LOCATION.

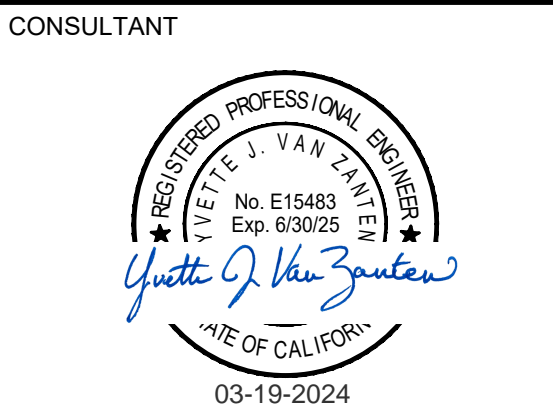
**M. NEILS**  
**ENGINEERING, INC.**  
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 Sacramento, CA 95825-9217  
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**CULINARY LAB**  
**VENTURE ACADEMY**  
  
**ROOF PLAN -**  
**ELECTRICAL**

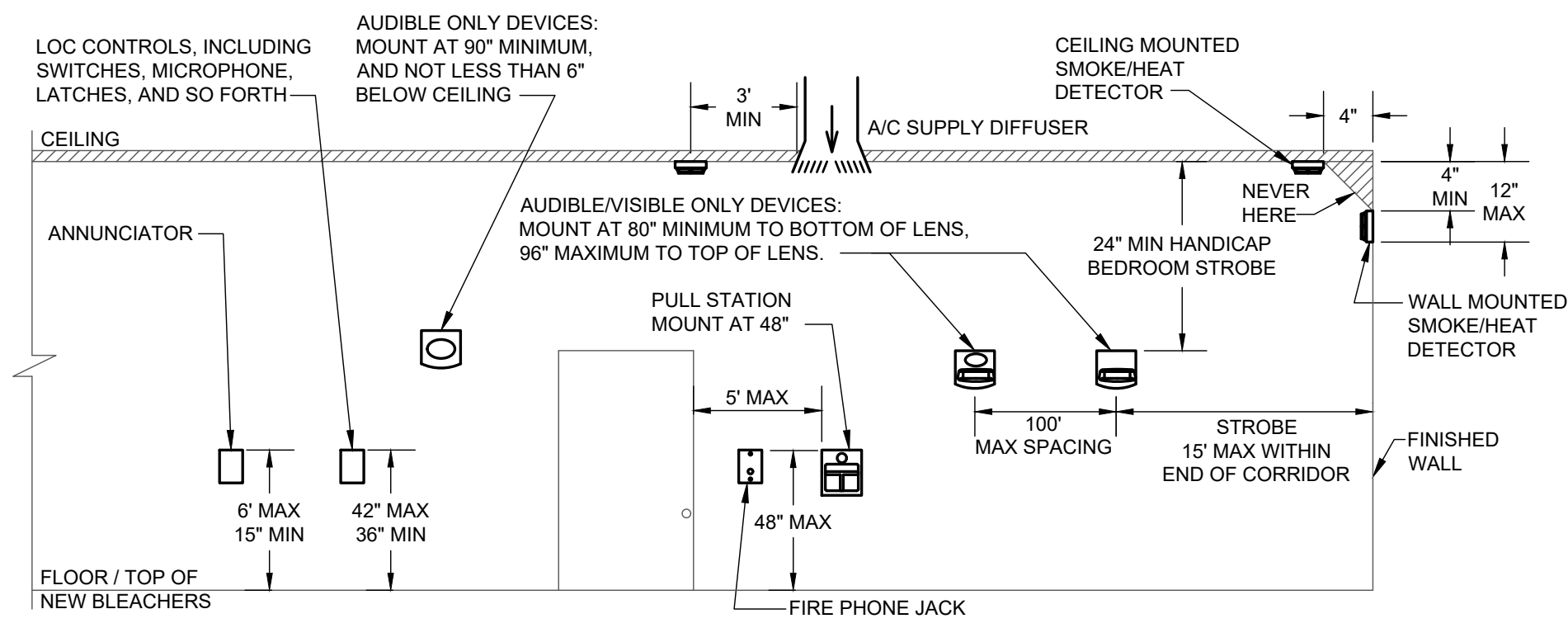


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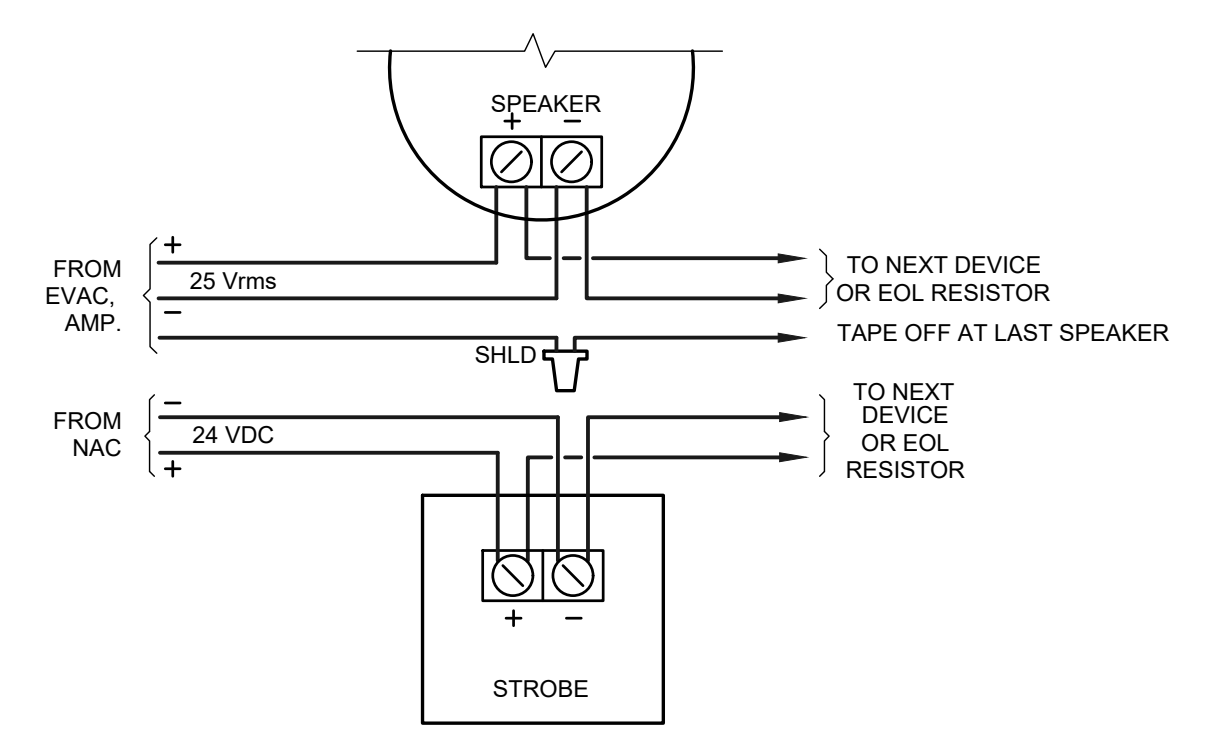


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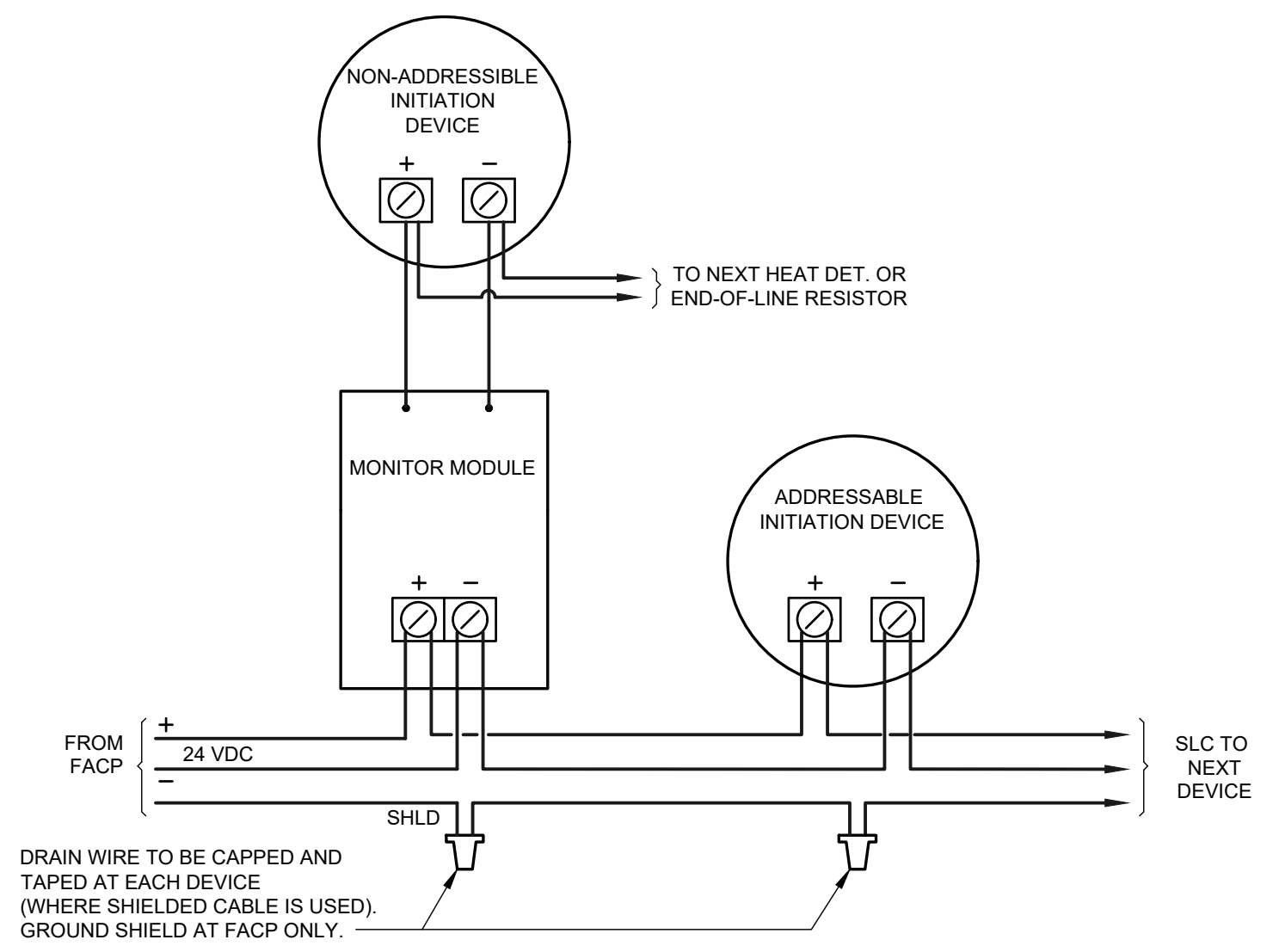
**TYPICAL INITIATION AND NOTIFICATION**

**1 APPLIANCE ELEVATION DETAIL**  
E400 NO SCALE



**NOTIFICATION DEVICES**

**2 POINT TO POINT WIRING DIAGRAM**  
E400 NO SCALE



NOTE:  
 DIAGRAM IS GENERIC THEREFORE CONTRACTOR SHALL COORDINATE WORK FOR SPECIFIC DEVICES USED. REFER TO MANUFACTURER INFORMATION FOR TYPE OF CABLE, MAX. LENGTH, T-TAPING, GROUNDING, ETC.

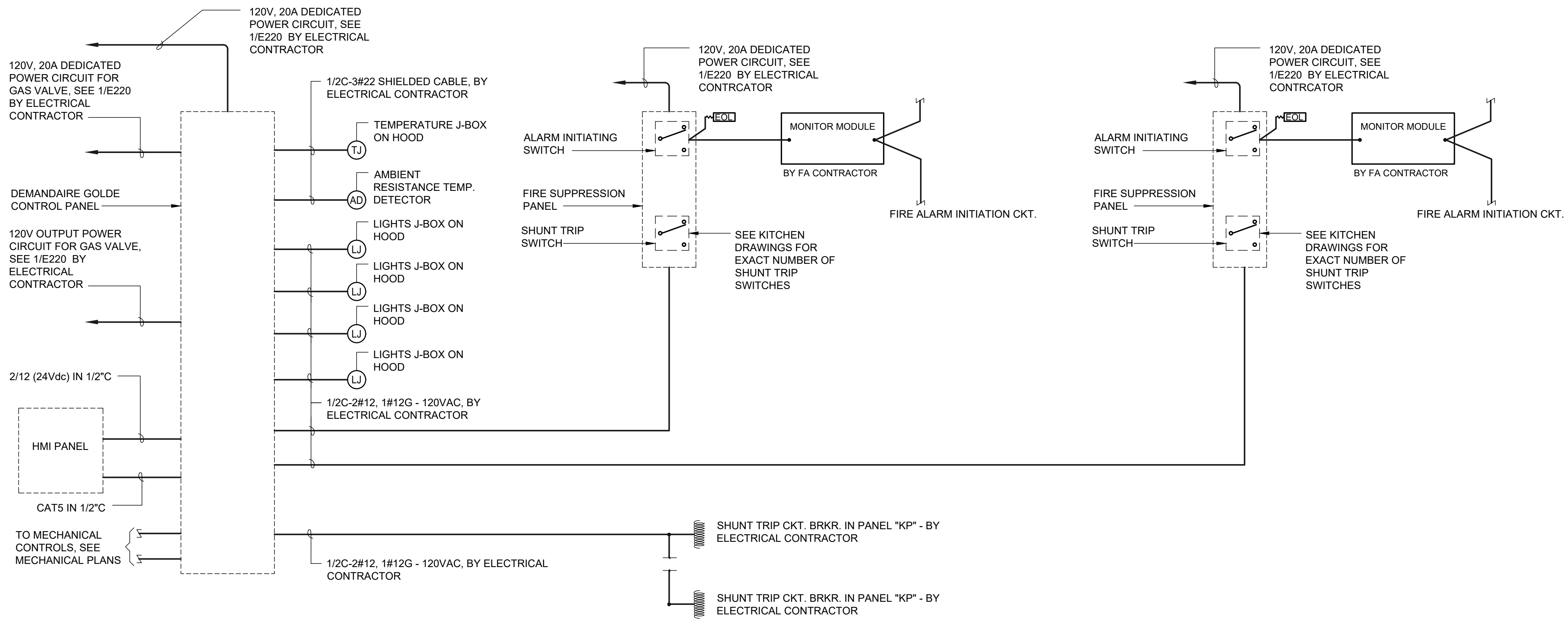
**3 DEVICES - POINT TO POINT WIRING DIAGRAM**  
E400 NO SCALE

FIRE ALARM EQUIPMENT SCHEDULE			
SYMBOL	CATALOG NO.	DESCRIPTION	CSFM LISTING No.
FACP	SILENT KNIGHT 6820EVS	(N) FIRE ALARM CONTROL PANEL	7165-0559:0500
RA	SILENT KNIGHT 6860	REMOTE ANNUNCIATOR	7165-0559:0500
MM	SILENT KNIGHT SK-MONITOR	MONITOR MODULE	7300-0559:0155
RM	SILENT KNIGHT SK-RELAY	RELAY MODULE	7300-0559:0155
Ⓛ	SILENT KNIGHT SK-HEAT-HT-W	HEAT DETECTOR HIGH TEMP.	7270-0559:0511
Ⓜ	SILENT KNIGHT SK-PHOTO-W	SMOKE (PHOTOELECTRIC) DETECTOR	7272-0559:0512
Ⓜ	SILENT KNIGHT SK-DUCT ②③	DUCT DETECTOR	3242-0559:0162
⊗	SYSTEM SENSOR PC2RL	HORN/STROBE, CEILING MOUNTED	7320-1653:0503
⊗	SYSTEM SENSOR SCRL	STROBE, CEILING MOUNTED	7125-1653:0504

① INSTALL IN THE SCHOOL MAIN OFFICE. COORDINATE EXACT LOCATION BEFORE ROUGH IN.  
 ② PROVIDE RELAY MODULE SK-RELAY IN DUCT DETECTOR HOUSING  
 ③ PROVIDE W/ RTS151KEY REMOTE TEST STATION. INSTALL TEST STATION AS DIRECTED BY ARCHITECT

FIRE ALARM SEQUENCE OF OPERATION MATRIX															
	FACP ALARM	FACP TROUBLE	FACP DISTINCT SIGNAL	FACP SUPERVISORY	ALARM SIGNAL OFF-SITE	TROUBLE SIGNAL OFF-SITE	ACTIVATE AUDIOVISUAL THROUGHOUT	ALARM RECEIPT CAPABILITY DURING ABNORMAL CONDITIONS	SHUT OFF GAS SUPPLY TO KITCHEN	SHUT OFF POWER TO DEVICES UNDER KITCHEN HOOD	SEND SIGNAL TO MECHANICAL CONTROLS TO INITIATE REQUIRED ACTIONS BY MECHANICAL CONTROLS	HVAC UNIT SHUTDOWN	FIRE SMOKE DAMPER CLOSE	RELEASE FIRE DOOR	ANNUNCIATE ALARM AT REMOTE ANNUNCIATOR
AREA SMOKE DETECTOR	X				X		X							X	X
AREA HEAT DETECTOR	X				X		X							X	X
KITCHEN HOOD FIRE SUPPRESSION SYSTEM	X				X				X	X	X				X
FIRE SPRINKLER RISER FLOW SWITCH	X				X		X								X
FIRE SPRINKLER RISER TAMPER SWITCH					X		X								
FIRE SPRINKLER PIV					X		X								
POWER FAILURE		X		X	X										
NOTIFICATION CIRCUIT CLASS B															
OPEN WIRE		X				X									
GROUNDING WIRE		X				X			R						
SHORTED WIRES		X				X									
SIGNALING LINE CIRCUIT CLASS B															
OPEN WIRE		X				X									
GROUNDING WIRE		X				X			R						
WIRE TO WIRE (SHORT & OPEN)		X				X									
WIRE TO WIRE (SHORT & GROUND)		X				X									
OPEN & GROUND		X				X									
LOSS OF CARRIER		X				X									

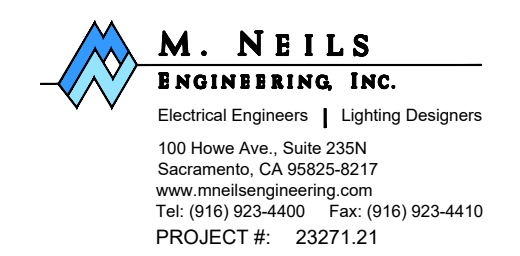
NOTE: BLANK MEANS NOT APPLICABLE R = REQUIRED ACTION



NOTES:  
 1. SEE SHEETS FS5.2 AND FS5.3 FOR ADDITIONAL REQUIREMENTS.  
 2. COORDINATE WORK WITH KITCHEN EQUIPMENT CONTRACTOR BEFORE ROUGH IN.

**4 HOOD FIRE SUPPRESSION SYSTEM - WIRING DIAGRAM**  
E4.1 NOT TO SCALE

**FIRE ALARM NOTES:**  
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**CULINARY LAB VENTURE ACADEMY**  
**FIRE ALARM DIAGRAMS, MATRIX**

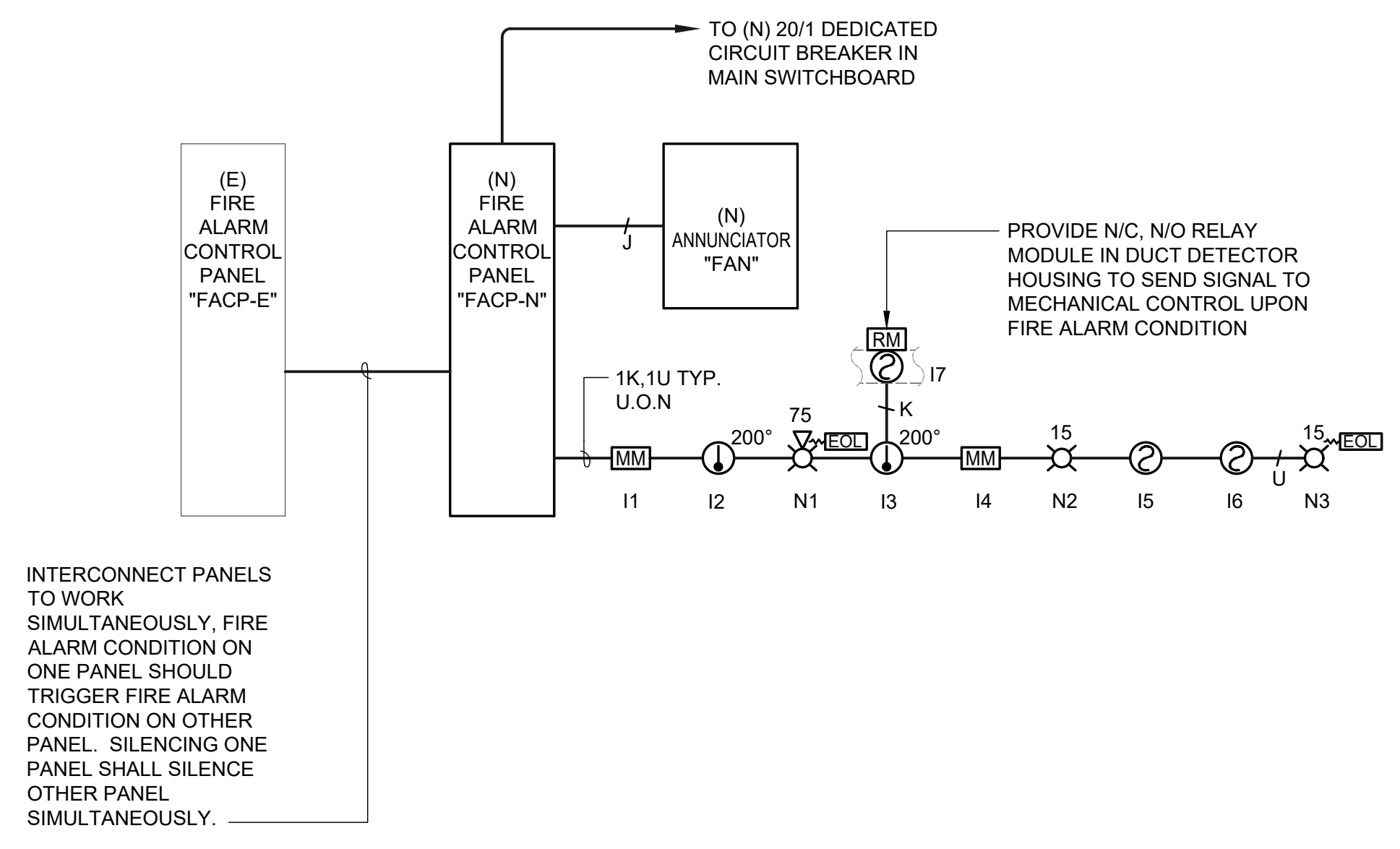
CONSULTANT

REGISTERED PROFESSIONAL ENGINEER  
 TERRY J. VAN ZANTEN  
 No. E15483  
 Exp. 6/30/25  
 Jutta Q. Van Zanten  
 STATE OF CALIFORNIA  
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ALL FIRE ALARM WIRING IN CONDUITS

**1 FIRE ALARM RISER DIAGRAM**

E410 NO SCALE

FIRE ALARM CABLE SCHEDULE		
J	SBUS, DATA BUS CABLE	4#14AWG, -WEST PENN LL5144
K	ADDRESSABLE INITIATION	2#16AWG, -WEST PENN 990
U	NOTIFICATION	2#12 AWG - WEST PENN 998

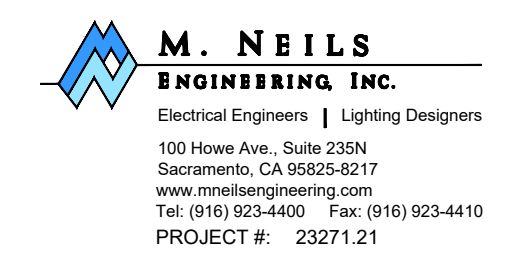
BATTERY CALCULATION - FIRE ALARM CONTROL PANEL FACP-N					
DESCRIPTION	QUANTITY	STANDBY CURRENT	SUBTOTAL	ALARM CURRENT	SUBTOTAL
FACP CPU	1	0.275 A	0.275 A	0.440 A	0.440 A
SLC LOOP	1	0.055 A	0.055 A	0.055 A	0.055 A
VOICE CONTROL MODULE	1	0.070 A	0.070 A	0.100 A	0.100 A
INITIATION DEVICES *	1	0.320 A	0.320 A	0.325 A	0.325 A
STROBE CEILING 15cd	2	0.000 A	0.000 A	0.041 A	0.082 A
HORN/STROBE CEILING 75cd	1	0.000 A	0.000 A	0.143 A	0.143 A
			<b>TOTAL</b>	<b>TOTAL</b>	<b>1.145 A</b>
STANDBY	24 HOURS X		0.720 A	=	17.280 AH
ALARM	15 MIN X		1.145 A	=	0.286 AH
SPARE	25% OFF		17.566 AH	=	4.392 AH
			<b>TOTAL</b>	=	<b>21.958 AH</b>
			<b>PROVIDED BATTERY</b>	=	<b>24 AH @ 24V</b>

\* BASED ON MAXIMUM NUMBER OF INITIATION DEVICES (555 DETECTORS + 555 MONITORS). STANDBY LOAD FOR DETECTOR = 0.0002A, ALARM LOAD = 0.0045A. STANDBY/ALARM LOAD FOR MONITOR = 0.000375A

VOLTAGE DROP CALCULATION LAST DEVICE - WORST CASE SCENARIO						
ACCEPTABLE LIMIT: NOT TO EXCEED 2.04V (10%*20.4V)						
OHMS = (#14 FT * 3.07/1000 + #12 FT * 1.93/1000 + #10 FT * 1.21/1000) * 2						
DEVICE	TO DEVICE #	CKT. LENGTH FT	WIRE SIZE #12	RESISTANCE OF WIRE (OHM)	LOAD TOTAL	ACCUM. VOLTAGE DROP
FACP-N	N2	425	0.00193	1.641	0.225 A	0.369 V

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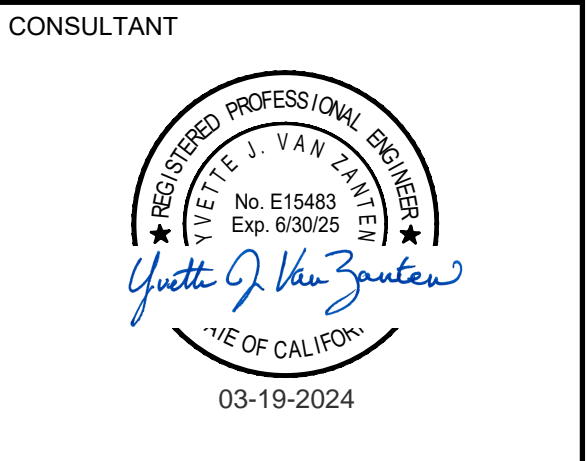


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CULINARY LAB VENTURE ACADEMY

**FIRE ALARM RISER DIAGRAM, FA CALCULATIONS**

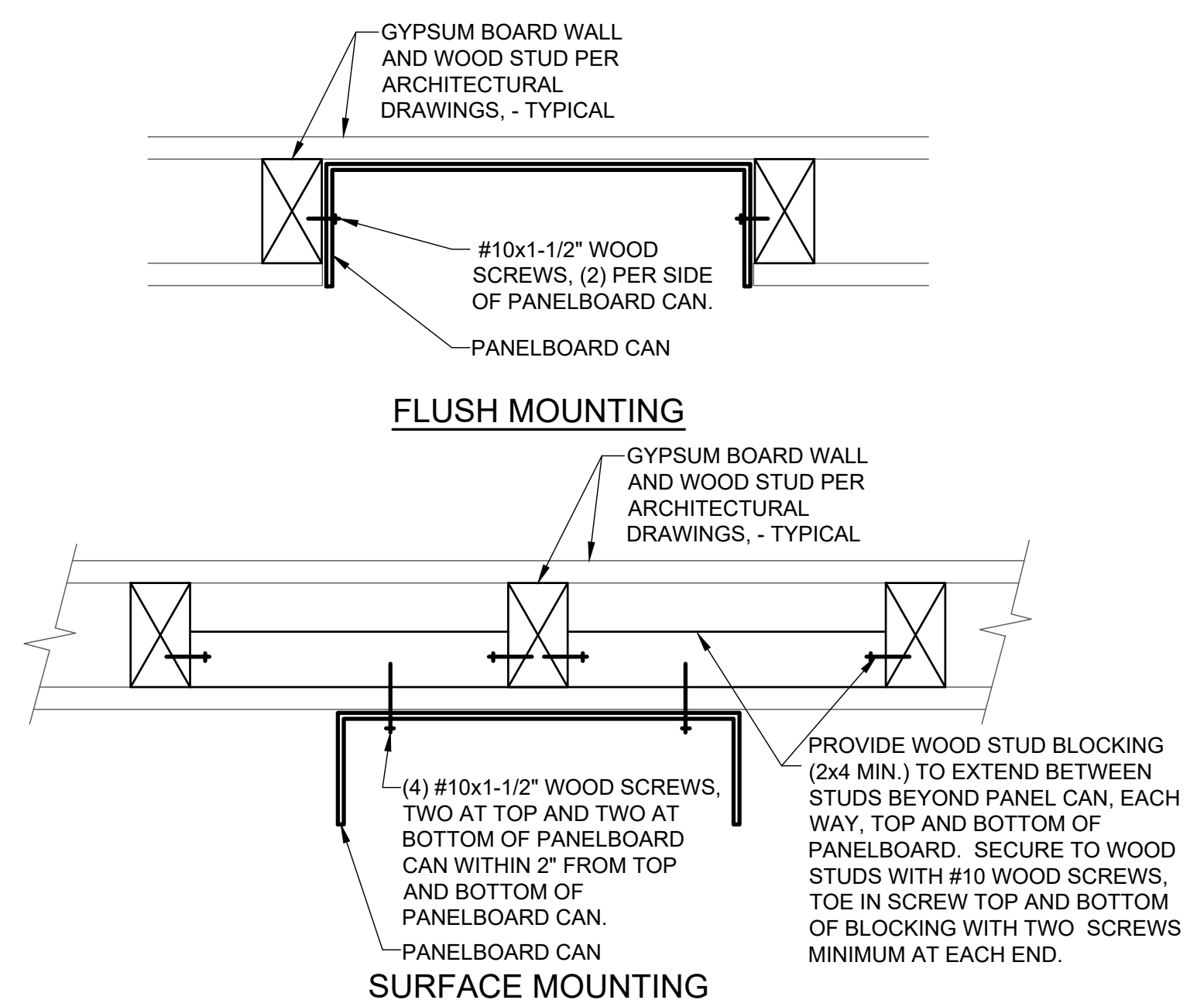


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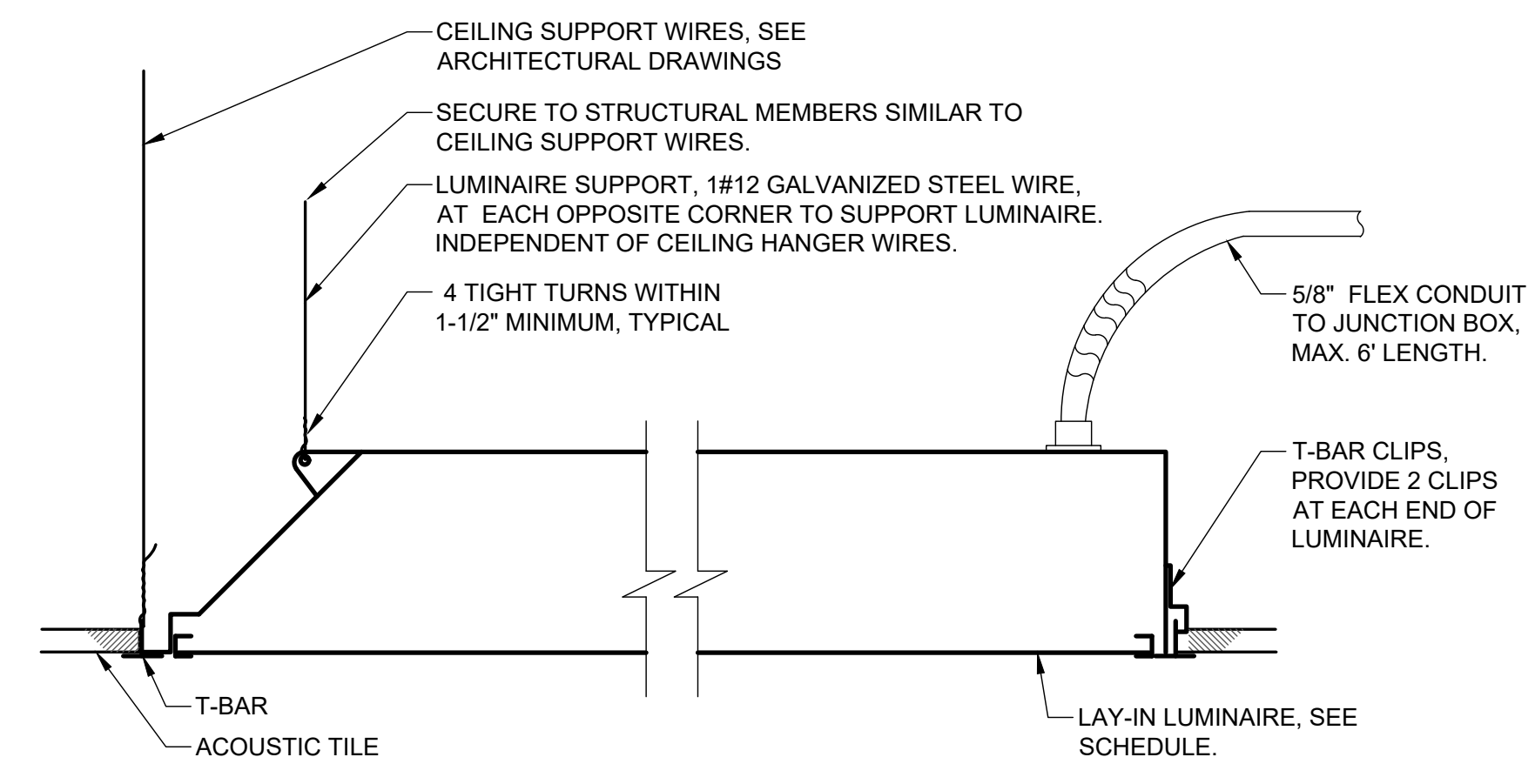
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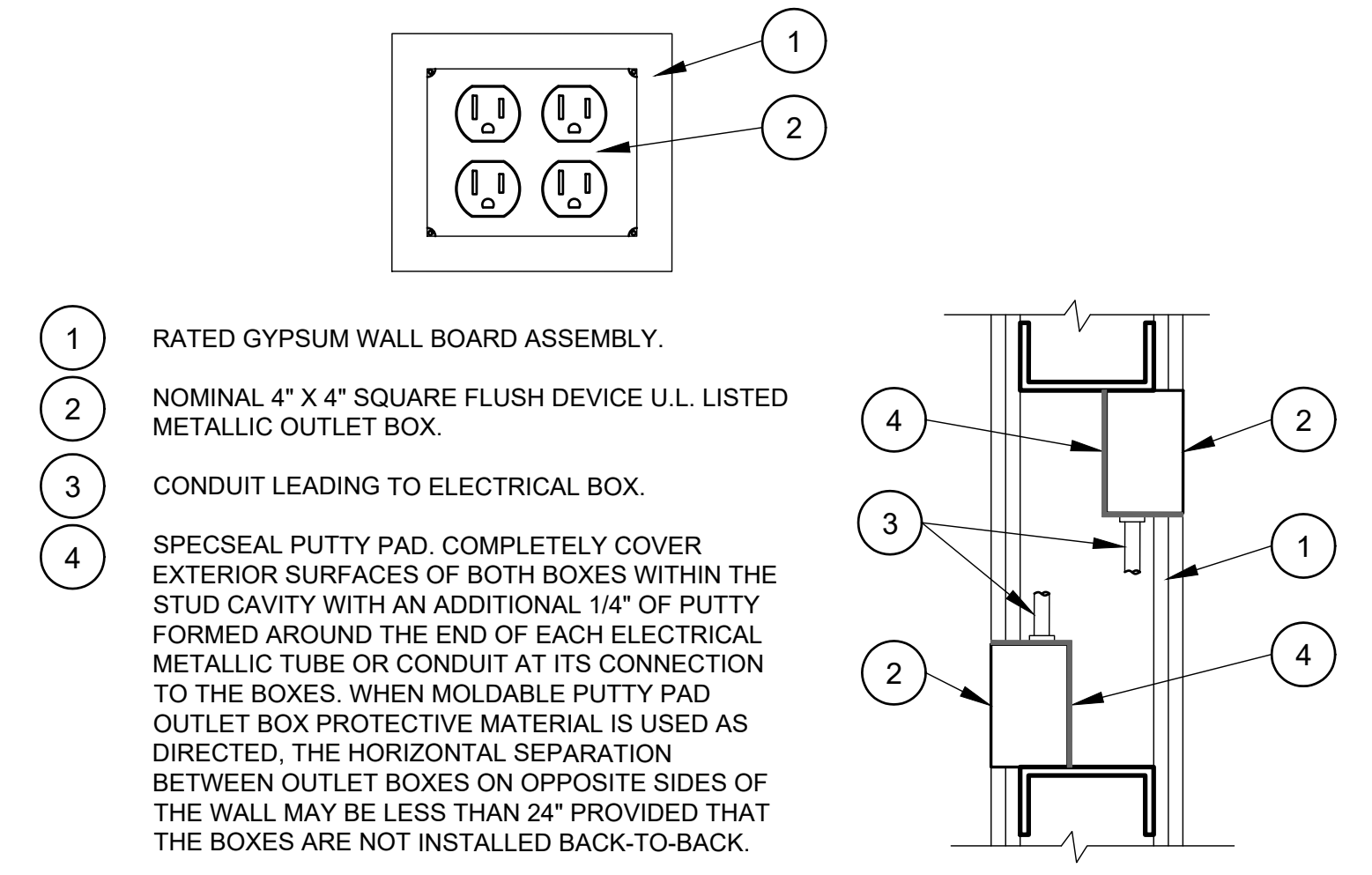
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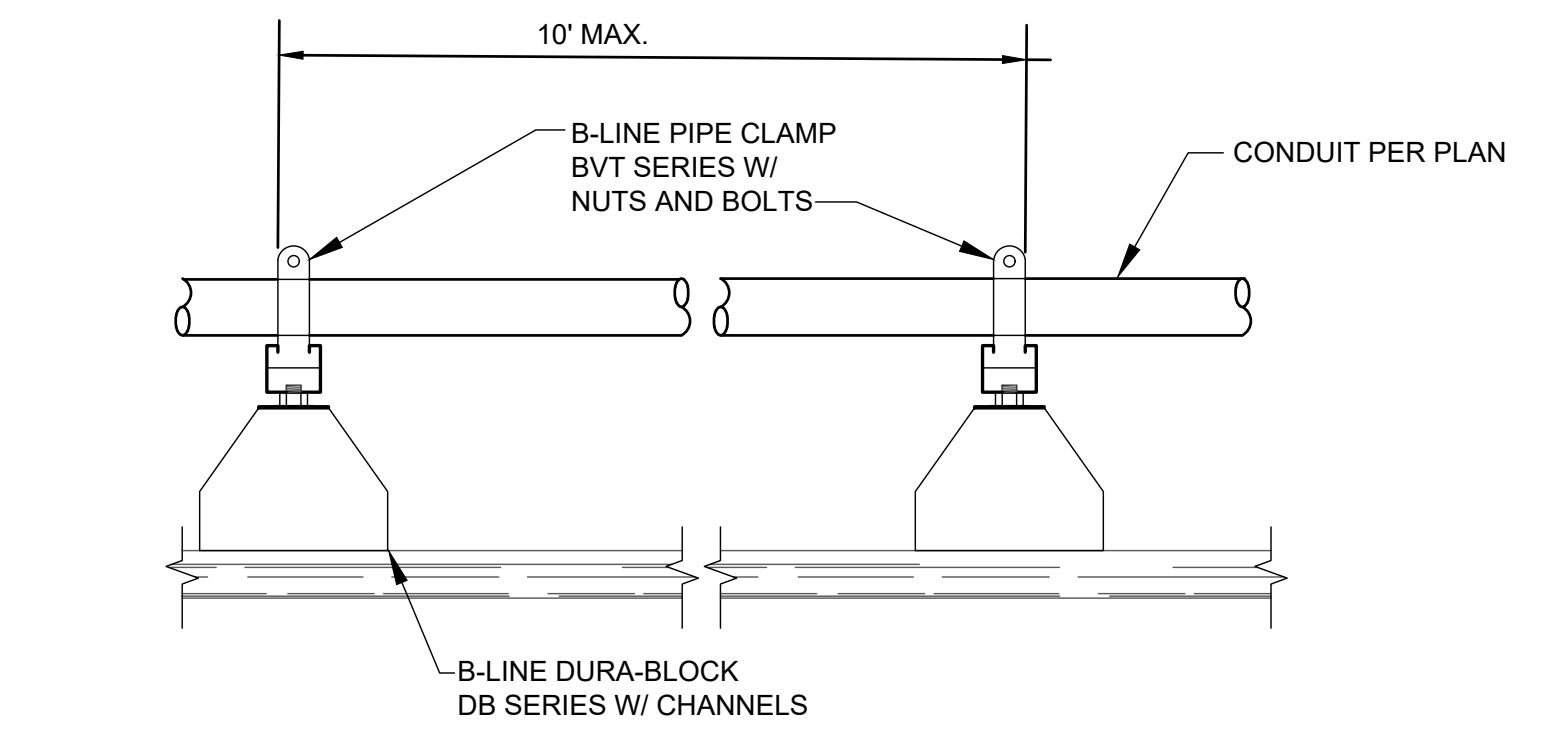
**1 PANELBOARD MOUNTING DETAIL**  
 E500 NO SCALE MAX. PANEL WEIGHT 210LB.



**2 LAY-IN LUMINAIRE MOUNTING DETAIL**  
 E500 NO SCALE



**3 1 OR 2 HOUR RATED FIRESTOP FOR METALLIC ELECTRICAL OUTLET BOXES USING SPECSEAL PUTTY PADS**  
 E500 NO SCALE



**4 CONDUIT INSTALLATION ON ROOF**  
 E500 NO SCALE

Classified by Underwriters Laboratories, Inc. to ANSI/UL 1479 (ASTM E814) and CAN/ULC S115

**System No. W-L-1049**

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Item 1)	F Ratings - 1 and 2 Hr (See Item 1)
T Rating - 0 Hr	FT Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft	FH Ratings - 1 and 2 Hr (See Item 1)
L Rating At 400 F - Less Than 1 CFM/sq ft	FTH Rating - 0 Hr
	L Rating at Ambient - Less Than 5.1 L/S/m <sup>2</sup>
	L Rating at 204°C - Less Than 5.1 L/S/m <sup>2</sup>

**1** RATED GYPSUM WALL BOARD ASSEMBLY.

**2** NOMINAL 4" X 4" SQUARE FLUSH DEVICE U.L. LISTED METALLIC OUTLET BOX.

**3** CONDUIT LEADING TO ELECTRICAL BOX.

**4** SPECSEAL PUTTY PAD. COMPLETELY COVER EXTERIOR SURFACES OF BOTH BOXES WITHIN THE STUD CAVITY WITH AN ADDITIONAL 1/4" OF PUTTY FORMED AROUND THE END OF EACH ELECTRICAL METALLIC TUBE OR CONDUIT AT ITS CONNECTION TO THE BOXES. WHEN MOLDABLE PUTTY PAD OUTLET BOX PROTECTIVE MATERIAL IS USED AS DIRECTED, THE HORIZONTAL SEPARATION BETWEEN OUTLET BOXES ON OPPOSITE SIDES OF THE WALL MAY BE LESS THAN 24" PROVIDED THAT THE BOXES ARE NOT INSTALLED BACK-TO-BACK.

**1A** Wall Assembly - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, V300, U400, V400 or W400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

**A. Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.

**B. Gypsum Board** - 5/8 in. (16 mm) thick, 4 ft (1.22 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, V300, U400, V400 or W400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 36 in. (965 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.

The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

**1A. Metallic Sleeve** - (Optional, Not Shown) - Cylindrical sleeve fabricated from min 0.016 in. (0.41 mm) to max 0.105 in. (2.7 mm) thick sheet steel. Length of steel sleeve to be equal to the thickness of wall. Longitudinal seam of sleeve welded or overlapped min 1 in. (25 mm). The ends of the steel sleeve shall be flush or recessed max 1/4 in. (6 mm) from wall surfaces.

Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876  
 Reproduced courtesy of Underwriters Laboratories, Inc. Created or Revised: May 22, 2023  
 (800)992-1180 • (908)526-8000 • FAX (908)231-8415 • E-Mail: techserv@stfirestop.com • Website: www.stfirestop.com

UL US W-L-1049 PAGE 1 OF 2

**2. Through Penetrant** - One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. The annular space between pipe, conduit or tubing and periphery of opening shall be min 0 in. (0 mm, point contact) to max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

**A. Steel Pipe** - Nom 36 in. (914 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

**B. Iron Pipe** - Nom 36 in. (914 mm) diam (or smaller) cast or ductile iron pipe.

**C. Conduit** - Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit, nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or nom 4 in. (102 mm) diam (or smaller) flexible steel conduit.

**D. Copper Tubing** - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.

**E. Copper Pipe** - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

**F. Stainless Steel Pipe** - Nom 36 in. (914 mm) diam (or smaller) Schedule 10 (or heavier) stainless steel pipe.

**2A. Through Penetrating Product - Flexible Metal Piping** - As an alternate to Item 2, one nom 2 in. (51 mm) diam (or smaller) steel flexible metal pipe to be installed either concentrically or eccentrically within the firestop system. The annular space between the pipe and the periphery of the opening shall be min 0 in. (point contact) to max 2 in. (51 mm). Pipe to be rigidly supported on both sides of the wall assembly.

**OMEGA FLEX INC**  
 GASTITE, DIV OF TITEXLEX  
 WARD MFG L L C

**3. Fill, Void or Cavity Material** - Sealant - Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. At point contact location between through penetrant and gypsum board, a min 3/8 in. (10 mm) diam bead of fill material shall be applied at the gypsum board/through penetrant interface on both surfaces of wall.

**SPECIFIED TECHNOLOGIES INC** - SpecSeal Series SSS Sealant or SpecSeal LCI Sealant

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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UL US W-L-1049 PAGE 2 OF 2

**5 FIRE RATED WALL CONDUIT PENETRATION**  
 E500 NO SCALE

730 Howe Avenue, Suite 450  
 Sacramento, CA 95825  
 Phone: 916.921.2112  
 Fax: 916.921.2212

**HENRY+ ASSOCIATES ARCHITECTS**

REGISTERED ARCHITECT  
 STATE OF CALIFORNIA  
 C-22523  
 12/31/25 RENEWAL DATE

**CULINARY LAB VENTURE ACADEMY**

**DETAILS - ELECTRICAL**

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER  
 STATE OF CALIFORNIA  
 No. E15483  
 Exp. 6/30/25  
 Yvette G. Van Zanten  
 03-19-2024

PROJECT NO.	REVISIONS	BY
23-34-026		
DATE		
02/29/2024		
DRAWN		
SG		
CHECKED		
YZZ		
SCALE		
CADFILE		
UPDATED		
SHEET NO.		
<b>E500</b>		

**M. NEILS ENGINEERING, INC.**  
 Electrical Engineers | Lighting Designers  
 100 Howe Ave., Suite 235N  
 Sacramento, CA 95825-9217  
 www.mneilsengineering.com  
 Tel: (916) 923-4400 Fax: (916) 923-4410  
 PROJECT #: 23271.21



Mar 19, 2024 - 12:23pm UNAUTHORIZED CHANGES & USES. M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans. All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION  
**Electrical Power Distribution** NRCC-ELC-E  
 CERTIFICATE OF COMPLIANCE  
 This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)(2)P for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2 (b)4Bvii  
 Project Name: Culinary Lab at Venture Academy - SJCOE Report Page: (Page 1 of 4)  
 Project Address: Date Prepared: 2024-02-21T16:19:05-05:00

**A. GENERAL INFORMATION**

01	Project Location (city)	Stockton	02	Climate Zone	12
03	Occupancy Types Within Project:	School or Classroom			

**B. PROJECT SCOPE**  
 This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/Description	Scope of Work <sup>1</sup>	Rating <sup>2</sup> (kVA)	Utility Provided Metering System Exception to 130.5(a)/160.6(a) <sup>3</sup>	System subject to CA Elec Code Article 517 Exception to 130.5(a) and (b)	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy
2/E210	Add/Alt to feeders and branch circuits only	---	<input type="checkbox"/>	<input type="checkbox"/>	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 130.2/160.3, 130.1/160.5, and 130.3/160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	<input type="checkbox"/>

<sup>1</sup> FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.  
<sup>2</sup> If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.  
<sup>3</sup> Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

Generated Date/Time: Documentation Software: Energy Code Ace  
 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 179202-0224-0002 Schema Version: rev 20220101 Report Generated: 2024-02-21 13:19:07

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION  
**Electrical Power Distribution** NRCC-ELC-E  
 CERTIFICATE OF COMPLIANCE  
 Project Name: Culinary Lab at Venture Academy - SJCOE Report Page: (Page 2 of 4)  
 Project Address: Date Prepared: 2024-02-21T16:19:05-05:00

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

01	02	03	04	05	06
Service Electrical Metering 130.5(a)/160.6(a) (See Table F)	AND Separation for Monitoring 130.5(b)/160.6(b) (See Table G)	AND Voltage Drop 130.5(c)/160.6(c) (See Table H)	AND Controlled Receptacles 130.5(d)/160.6(d) (See Table I)	Electric Ready 160.9 (See Table J)	Compliance Results
AND	AND	Yes	AND		COMPLIES

**D. EXCEPTIONAL CONDITIONS**  
 This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

**E. ADDITIONAL REMARKS**  
 This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

**H. VOLTAGE DROP**  
 This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)(2)Piii/180.2(b)4Bviii.

01	02	03	04	05
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method	Location of Voltage Drop Calculations <sup>1</sup>	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector
2/E210	<input checked="" type="checkbox"/> Voltage drop less than 5% <input type="checkbox"/> Permitted by CA Elec Code (Exception to 130.5(c))*	Contractor Responsible		Pass <input type="checkbox"/> Fail <input type="checkbox"/>

\* NOTES: If "Permitted by CA Elec Code" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.  
<sup>1</sup> FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

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 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 179202-0224-0002 Schema Version: rev 20220101 Report Generated: 2024-02-21 13:19:07

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION  
**Electrical Power Distribution** NRCC-ELC-E  
 CERTIFICATE OF COMPLIANCE  
 Project Name: Culinary Lab at Venture Academy - SJCOE Report Page: (Page 3 of 4)  
 Project Address: Date Prepared: 2024-02-21T16:19:05-05:00

**K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**  
 Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online  
 Form/Title  
 NRCC-ELC-E - Must be submitted for all buildings

**L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**  
 There are no forms required for this project.

Generated Date/Time: Documentation Software: Energy Code Ace  
 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 179202-0224-0002 Schema Version: rev 20220101 Report Generated: 2024-02-21 13:19:07

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION  
**Electrical Power Distribution** NRCC-ELC-E  
 CERTIFICATE OF COMPLIANCE  
 Project Name: Culinary Lab at Venture Academy - SJCOE Report Page: (Page 4 of 4)  
 Project Address: Date Prepared: 2024-02-21T16:19:05-05:00

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

Documentation Author Name: Yvette Van Zanten  
 Company: M. Neils Engineering  
 Address: 100 Howe Ave, Suite 235N  
 City/State/Zip: Sacramento, CA 95825  
 Phone: 916-923-4000

Documentation Author Signature: *Yvette J. Van Zanten*  
 Signature Date: CEA/HERS Certification Identification (if applicable):  
 Phone: 916-923-4000

**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 Designer Name: Yvette Van Zanten  
 Company: M. Neils Engineering  
 Address: 100 Howe Ave, Suite 235N  
 City/State/Zip: Sacramento, CA 95825  
 License: E15483  
 Phone: 916-923-4000

Responsible Designer Signature: *Yvette J. Van Zanten*  
 Date Signed: 02-29-2024

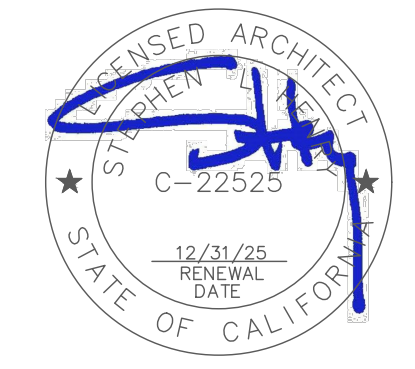
Generated Date/Time: Documentation Software: Energy Code Ace  
 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 179202-0224-0002 Schema Version: rev 20220101 Report Generated: 2024-02-21 13:19:07

**Electrical Power Distribution Mandatory Measures:**

**110.12(a) DEMAND RESPONSIVE (DR) CONTROLS**  
 ALL DEMAND RESPONSIVE CONTROLS SHALL:  
 1. BE EITHER A. CERTIFIED OPENADR 2.0a OR OPENADR 2.0b VIRTUAL END NODE (VEN); OR B. CERTIFIED BY THE MANUFACTURER AS BEING CAPABLE OF RESPONDING TO A DR SIGNAL FROM A CERTIFIED OPENADR 2.0b VEN AUTOMATICALLY IMPLEMENTING THE CONTROL FUNCTIONS REQUESTED BY THE VEN FOR THE EQUIPMENT IT CONTROLS.  
 2. BE CAPABLE OF COMMUNICATING USING ONE OR MORE OF THE FOLLOWING: WI-FI, ZIGBEE, BACNET, ETHERNET, OR HARD-WIRING.  
 3. CONTINUE TO PERFORM ALL OTHER CONTROL FUNCTIONS PROVIDED BY THE CONTROL WHEN COMMUNICATIONS ARE DISABLED OR UNAVAILABLE.  
 4. DR CONTROL THERMOSTATS SHALL COMPLY WITH REFERENCE JOINT APPENDIX 5 (JAS), TECHNICAL SPECIFICATIONS FOR OCCUPANT CONTROLLED SMART THERMOSTATS.

**110.12(d) DEMAND RESPONSIVE ELECTRONIC MESSAGE CENTER CONTROL**  
 CONTROLS FOR ELECTRONIC MESSAGE CENTERS GREATER THAN 15KW SHALL BE CAPABLE OF REDUCING THE LIGHTING POWER BY A MINIMUM OF 30% WHEN RECEIVING A DR SIGNAL.

**130.5(c) VOLTAGE DROP**  
 THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER AND BRANCH CIRCUIT CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5%.

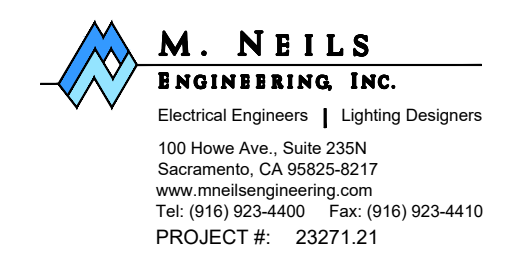


CULINARY LAB VENTURE ACADEMY  
 TITLE 24 - ELECTRICAL POWER DISTRIBUTION FORMS



PROJECT NO.	REVISIONS	BY
23-34-026		
DATE		
02/29/2024		
DRAWN		
SG		
CHECKED		
YZZ		
SCALE		
CADFILE		
UPDATED		

SHEET NO.  
**E600**



730 Howe Avenue, Suite 450  
 Sacramento, CA 95825  
 Phone: 916.921.2112  
 Fax: 916.921.2212

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Indoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: 23721 Culinary Lab at Venture Academy - SICOE
Report Page: (Page 1 of 8)
Date Prepared: 2024-02-21T21:23:23-05:00

Table with 4 columns: Item, Description, Value, Units. Includes Project Location (Stockton), Climate Zone (12), and Occupancy Types (Classroom).

Table with 4 columns: Scope of Work, Conditioned Spaces, Unconditioned Spaces, and Area (ft²). Includes lighting system and parking garage details.

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Compliance ID: 179320-0224-0002

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Indoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: 23721 Culinary Lab at Venture Academy - SICOE
Report Page: (Page 4 of 8)
Date Prepared: 2024-02-21T21:23:23-05:00

Table with 12 columns: Area Level Controls, 05, 06, 07, 08, 09, 10, 11, 12. Includes Kitchen area with controls like Dimmer and Occupancy Sensor.

Table with 6 columns: 01, 02, 03, 04, 05, 06. Includes Kitchen area with lighting power allowance details.

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This section does not apply to this project.

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Compliance ID: 179320-0224-0002

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Indoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: 23721 Culinary Lab at Venture Academy - SICOE
Report Page: (Page 2 of 8)
Date Prepared: 2024-02-21T21:23:23-05:00

Table with 10 columns: Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts), Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts), Compliance Results. Includes detailed lighting calculations for various luminaire types.

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Compliance ID: 179320-0224-0002

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Indoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: 23721 Culinary Lab at Venture Academy - SICOE
Report Page: (Page 3 of 8)
Date Prepared: 2024-02-21T21:23:23-05:00

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS
This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS
This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS
This section does not apply to this project.

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Compliance ID: 179320-0224-0002

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Indoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: 23721 Culinary Lab at Venture Academy - SICOE
Report Page: (Page 5 of 8)
Date Prepared: 2024-02-21T21:23:23-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.
Documentation Author Name: Yvette J Van Zanten
Signature Date: 02/22/2024

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Compliance ID: 179320-0224-0002

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Indoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: 23721 Culinary Lab at Venture Academy - SICOE
Report Page: (Page 3 of 8)
Date Prepared: 2024-02-21T21:23:23-05:00

Table with 10 columns: 01, 02, 03, 04, 05, 06, 07, 08, 09, 10. Includes lighting fixture schedule for L2 and L4.

\*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment; the permit applicant should enter full rated wattage in column 05.

G. MODULAR LIGHTING SYSTEMS
This section does not apply to this project.

Table with 3 columns: 01, 02, 03. Includes Building Level Controls and Mandatory Demand Response 110.12(c).

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Compliance ID: 179320-0224-0002

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Indoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: 23721 Culinary Lab at Venture Academy - SICOE
Report Page: (Page 4 of 8)
Date Prepared: 2024-02-21T21:23:23-05:00

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This section does not apply to this project.

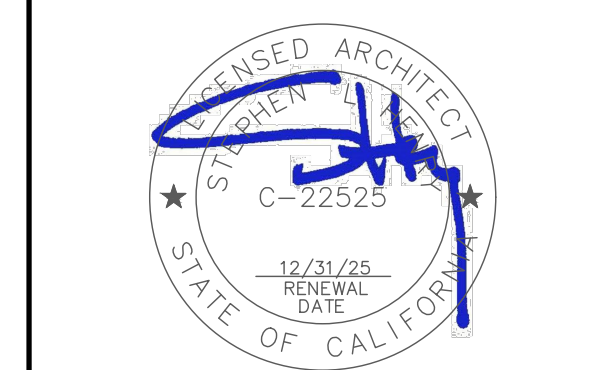
T. DWELLING UNIT LIGHTING
This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Text Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Compliance ID: 179320-0224-0002

730 Howe Avenue, Suite 450
Sacramento, CA 95825
Phone: 916.921.2112
Fax: 916.921.2212



CULINARY LAB VENTURE ACADEMY
TITLE 24 - INDOOR LIGHTING COMPLIANCE FORMS



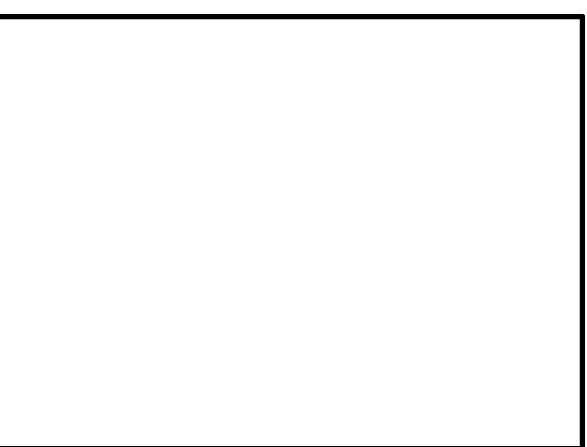
Table with 3 columns: PROJECT NO. (23-34-026), REVISIONS, BY. Includes dates for DRAWN, CHECKED, SCALE, CADFILE, UPDATED, SHEET NO.

E610

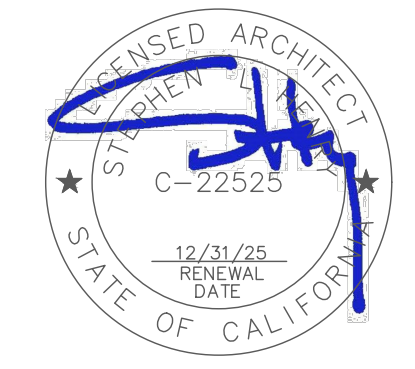


<p><b>Indoor Lighting Mandatory Measures:</b></p> <p><b>110.9 LIGHTING CONTROLS AND COMPONENTS</b>                  ALL LIGHTING CONTROL DEVICES AND SYSTEMS, AND ALL LIGHT SOURCES SHALL MEET THE APPLICABLE REQUIREMENTS OF 110.9.  <i>NOTE: THE EXCEPTED SPACES DO NOT COUNT TOWARDS THE 10,000 FT2 THRESHOLD.</i></p> <p><b>130.0 GENERAL LUMINAIRE REQUIREMENTS</b>                  ALL LUMINAIRES SHALL BE FACTORY-LABELLED PER 130.0(c).                  ENERGY MANAGEMENT CONTROL SYSTEMS (EMCS) SHALL MEET REQUIREMENTS OF 130.0(e).</p> <p><b>130.1(a) MANUAL AREA CONTROLS</b>                  EACH ROOM OR AREA WITH FLOOR-TO-CEILING WALLS IN THIS BUILDING SHALL HAVE LIGHTING CONTROLS THAT ALLOW LIGHTING TO BE MANUALLY TURNED ON AND OFF MANUAL CONTROLS SHALL:</p> <ol style="list-style-type: none"> <li>1. BE READILY ACCESSIBLE</li> <li>2. BE LOCATED IN THE SAME ENCLOSED AREA WITH THE LIGHTING IT CONTROLS.</li> <li>3. PROVIDE SEPARATE CONTROL OF GENERAL, FLOOR, WALL, WINDOW CASE DISPLAY, ORNAMENTAL AND SPECIAL EFFECTS LIGHTING SO EACH TYPE CAN BE TURNED ON AND OFF SEPARATELY WITHOUT AFFECTING OTHER LIGHTING OR EQUIPMENT.</li> </ol> <p><b>130.1(b) MULTILEVEL LIGHTING CONTROLS</b>                  GENERAL LIGHTING IN ALL ROOMS AND AREAS 100 FT2 OR GREATER AND WITH MORE THAN 0.5 WATTS PER FT2 OF LIGHTING LOAD SHALL HAVE MULTILEVEL CONTROLS THAT ALLOW LIGHT LEVELS TO BE ADJUSTED UP AND DOWN. CONTROLS SHALL PROVIDE NUMBER OF CONTROL STEPS AND UNIFORM ILLUMINANCE LIGHT LEVELS PER TABLE 130.1-A.</p> <p><b>130.1(c): SHUTOFF CONTROLS</b>                  ALL INSTALLED INDOOR LIGHTING SHALL BE EQUIPPED WITH CONTROLS TO AUTOMATICALLY REDUCE LIGHTING POWER WHEN SPACE IS TYPICALLY UNOCCUPIED.</p> <p><b>130.1(c)1: CONTROL REQUIREMENTS</b>                  ALL INSTALLED INDOOR LIGHTING SHALL HAVE ALL OF THE FOLLOWING:                  A. CONTROL(S) CAPABLE OF AUTOMATICALLY SHUTTING OFF ALL LIGHTING IN THE SPACE WHEN TYPICALLY UNOCCUPIED (OCCUPANT SENSING CONTROL, AUTOMATIC TIME-SWITCH CONTROL, OR OTHER)                  B. SEPARATE CONTROLS FOR LIGHTING ON EACH FLOOR (OTHER THAN STAIRWELLS)</p> <p><b>C. SEPARATE CONTROLS FOR A SPACE ENCLOSED BY CEILING HEIGHT PARTITIONS NOT EXCEEDING 5,000 FT2</b></p> <p><b>130.1(c)6 PARTIAL OR FULL-OFF OCCUPANT SENSORS</b>                  PROVIDE PARTIAL OR FULL-OFF OCCUPANT SENSORS, IN ADDITION TO SHUTOFF CONTROLS PER 130.1(c)1 AND 130.1(c)2, IN THE FOLLOWING SPACES:</p> <ul style="list-style-type: none"> <li>• AISLE WAYS AND OPEN AREAS IN WAREHOUSES</li> <li>• LIBRARY BOOK STACK AISLES</li> <li>• CORRIDORS AND STAIRWELLS</li> <li>• OFFICES GREATER THAN 250 SQ. FT.</li> </ul>
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<p><b>Indoor Lighting Mandatory Measures:</b></p> <p><b>130.1(f) CONTROL INTERACTIONS</b>                  EACH LIGHTING CONTROL INSTALLED TO MEET 130.1 REQUIREMENTS SHALL INCORPORATE THE FUNCTIONS OF OTHER LIGHTING CONTROLS REQUIRED BY THIS SECTION.</p> <ol style="list-style-type: none"> <li>1. FOR GENERAL LIGHTING, MANUAL AREA CONTROL SHALL PERMIT THE LEVEL OF LIGHT PROVIDED WHILE LIGHTING IS ON TO BE SET OR ADJUSTED BY CONTROLS SPECIFIED IN 130.1(b), (c), (d) and (e).</li> <li>2. MANUAL AREA CONTROL SHALL PERMIT SHUTOFF CONTROL TO TURN THE LIGHTING DOWN OR OFF.</li> <li>3. MULTILEVEL CONTROL SHALL PERMIT THE AUTOMATIC DAYLIGHTING CONTROL TO ADJUST ELECTRIC LIGHTING IN RESPONSE TO DAYLIGHT.</li> <li>4. MULTILEVEL CONTROL SHALL PERMIT THE DEMAND RESPONSIVE (DR) CONTROL TO ADJUST LIGHTING DURING A DR EVENT THEN RETURN IT TO THE LEVEL SET BY THE CONTROL AFTER THE EVENT.</li> <li>5. SHUTOFF CONTROL SHALL PERMIT THE MANUAL AREA CONTROL TO TURN THE LIGHTING ON.</li> <li>6. AUTOMATIC DAYLIGHTING CONTROL SHALL PERMIT MULTILEVEL LIGHTING CONTROL TO ADJUST THE LIGHTING LEVEL.</li> <li>7. FOR LIGHTING CONTROLLED BY MULTILEVEL LIGHTING CONTROLS AND OCCUPANT SENSING CONTROLS THAT PROVIDE AUTOMATIC-ON FUNCTION, CONTROLS SHALL PROVIDE A PARTIAL-ON FUNCTION THAT IS CAPABLE OF AUTOMATICALLY ACTIVATING BETWEEN 50-70% OF CONTROLLED LIGHTING POWER.</li> <li>8. RESERVED</li> <li>9. FOR SPACE CONDITIONING SYSTEM ZONES SERVING ONLY SPACES THAT ARE REQUIRED TO HAVE OCCUPANT SENSING CONTROLS SHALL BE CONTROLLED BY OCCUPANCY SENSING CONTROLS.</li> </ol>
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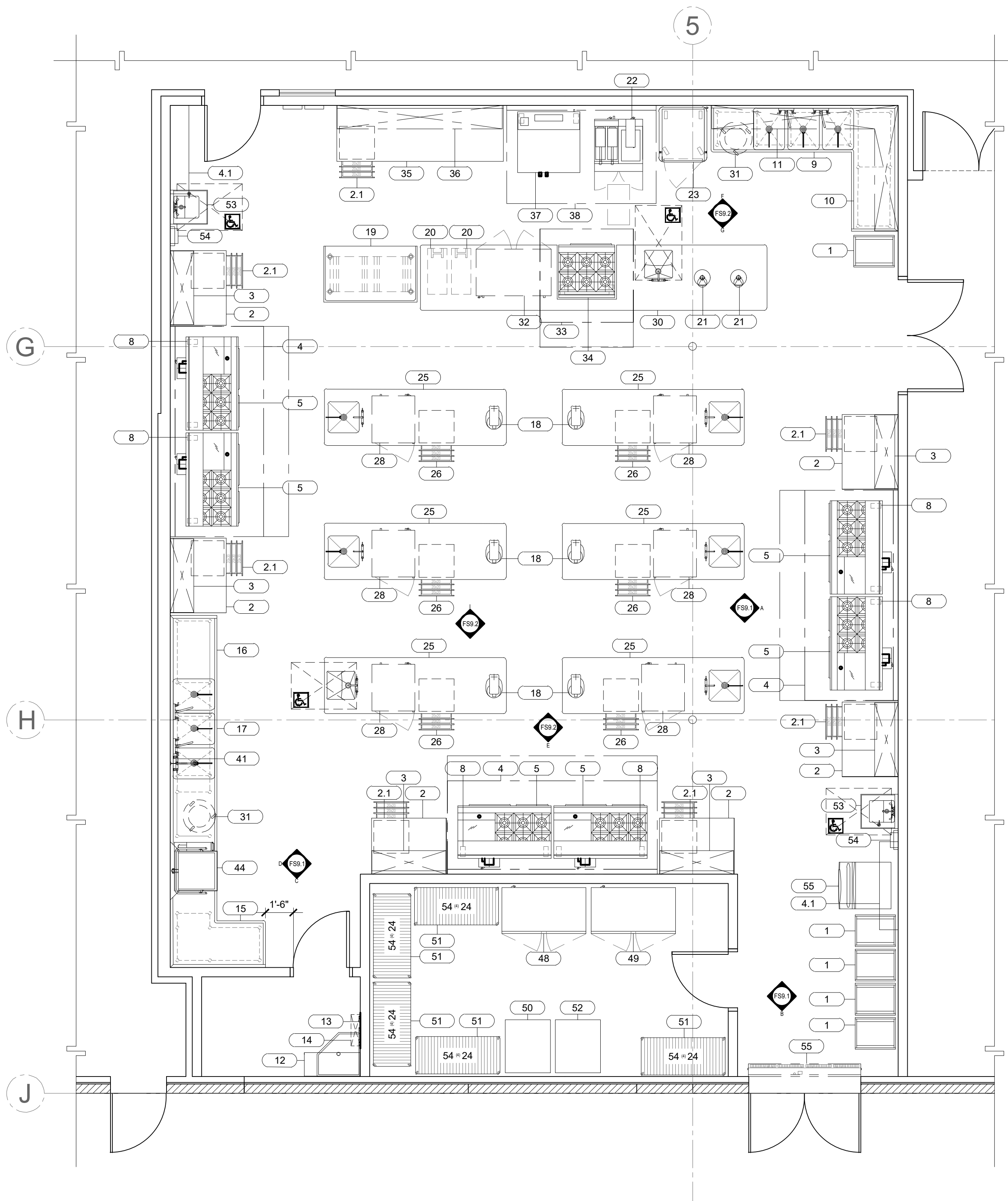
TITLE 24 -  
 INDOOR LIGHTING  
 MANDATORY MEASURES



PROJECT NO.	REVISIONS	BY
23-34-026		
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02/29/2024		
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SHEET NO.

**E620**



EQUIPMENT SCHEDULE							
ITEM NO	QTY	EQUIPMENT CATEGORY	MANUFACTURER	MODEL NUMBER	EQUIPMENT REMARKS	EQUIPMENT WT. LBS	ANCHORAGE DETAIL
1	5	RACK, PAN	NEW AGE INDUSTRIAL	1331		58	MOBILE
2	6	WORK COUNTER	EAGLE GROUP	T3648SE	W/ VERTICLE TRAY DIVIDERS	85	D/FS8.1
2.1	7	THREE STACK UTENSIL DRAWER UNIT	CUSTOM	FABRICATED ITEM		250	L/FS8.1
3	6	WALL MOUNTED STORAGE CABINET W/ DOORS	CUSTOM	FABRICATED		190	H/FS8.1
4	3	EXHAUST HOOD (TYPE 1) AND S/S WALL LINING	STREIVOR AIR SYSTEMS	WCB0 1355724		784	A1/FS8.3
4.1	2	FIRE SYSTEM	STREIVOR AIR SYSTEMS	R-102	TO SUPPORT ALL EXHAUST HOODS	100	E/FS8.1
5	6	RANGE W/ CONVECTION OVEN BASE, GAS	VULCAN	60SC-6B-24G-N		1095	
6		SPARE					
7		SPARE					
8	6	FLOOR MOUNTED CASTER LOCK PLATES SET OF (2)		SAFETY SET			
9	1	THREE COMPARTMENT SINK	CUSTOM	FABRICATED		453	A/FS8.1
10	1	CLEAN DISHTABLE	CUSTOM	FABRICATED		115	A/FS8.1
11	1	WALL MOUNTED STORAGE CABINET W/ DOORS	CUSTOM	FABRICATED		611	H/FS8.1
12	1	UPPER STORAGE CABINET FOR CLEANING SUPPLIES	ADVANCE TABCO	WCH-15-36		125	H/FS8.1
13	1	WALL MOUNTED MOP RACK	ADVANCE TABCO	K-242		2	
14	1	WALL MOUNTED MOP DRAINAGE TRAY	ADVANCE TABCO	K-243		13	
15	1	CLEAN DISHTABLE	CUSTOM	FABRICATED ITEM		190	C/FS8.1
16	1	CLEAN DISHTABLE	CUSTOM	FABRICATED ITEM		95	C/FS8.1
17	1	THREE COMPARTMENT SINK	CUSTOM	FABRICATED ITEM		258	A/FS8.1
18	6	COUNTER TOP MIXER	KITCHENAID	KSMC895DP		36.25	
19	1	MAPLE TOP BAKERS TABLE MOBILE W/ PAN RACK BELOW	JOHN BOOS	BAK05		224	MOBILE
20	2	INGREDIENT BIN	CAMBRO	IBS27148		32.2	MOBILE
21	2	CEILING MOUNTED PULL DOWN HEAT LAMP	HATCO	DLH-775-SN		10	
22	1	FRYER, DEEP FAT, GAS W/FILTER & SPREADER	IMPERIAL	IFSCB150-0P		433	I/FS8.2
23	1	HOT HOLDING CABINET (MOBILE)	F.W.E.	UHST-13		410	A/FS8.2
24		SPARE					
25	6	STUDENT WORK STATION W/ PREP SINK AND UTENSIL DRAWER	CUSTOM	FABRICATED		866	L/FS8.1
26	6	THREE STACK UTENSIL DRAWER UNIT	CUSTOM	FABRICATED ITEM		250	L/FS8.1
27		SPARE					
28	6	REFRIGERATOR, UNDERCOUNTER, ADA	TRUE MFG. - GENERAL FOODSERVICE	TUC-27-ADA-HC		195	
29		SPARE					
30	1	DEMO TABLE W/ ADA SINK	CUSTOM	FABRICATED		1045	L/FS8.1
31	2	TRASH CAN W/DOLLIE	RUBBERMAID	FG262000GRAY		12	MOBILE
32	1	REFRIGERATOR, UNDERCOUNTER, ADA	TRUE MFG. - GENERAL FOODSERVICE	TUC-48-ADA-HC		260	
33	1	EXHAUST HOOD (TYPE 1) AND S/S WALL LINING	STREIVOR AIR SYSTEMS	ICBD 606024		444	A2/FS8.3
34	1	RANGE, RESTAURANT, W/ CONVECTION OVEN BASE	WOLF RANGE	C36C-6BN		587	K/FS8.2
35	1	WORK COUNTER	EAGLE	WS-99-RS-36		203	D/FS8.1
36	1	WALL MOUNTED STORAGE CABINET W/ DOORS	CUSTOM	FABRICATED		380	H/FS8.1
37	1	OVEN, CONVECTION, GAS	VULCAN	SG44C		1150	J/FS8.2
38	1	EXHAUST HOOD (TYPE 1) AND S/S WALL LINING	STREIVOR AIR SYSTEMS	WCB0 986024		600	A3/FS8.3
39		SPARE					
40		SPARE					
41	1	PRE-RINSE SPRAY UNIT	T&S	B-0133-CR-B8TP		2.05	
42		SPARE					
43		SPARE					
44	1	DOOR TYPE HIGH TEMP WAREWASHER (VENTLESS)	HOBART US FOODSERVICE	AM16VLT-2	W/ RAPID FILL	1060	E/FS8.2
45		SPARE					
46		SPARE					
47		SPARE					
48	1	REFRIGERATOR, REACH-IN	TRUE MFG. - GENERAL FOODSERVICE	T-49-HC		400	G/FS8.2
49	1	FREEZER, REACH-IN	TRUE MFG. - GENERAL FOODSERVICE	T-49F-HC		440	G/FS8.2
50	1	TOP LOADING WASHER UNIT (ACCESSIBLE)	DISTRICT	A2454BR		23.5	MOBILE
51	6	(4) TIER MOBILE STORAGE SHELVING	METRO				
52	1	FRONT LOADING DRYER UNIT (ACCESSIBLE)	DISTRICT				
53	2	HAND SINK, WALL MOUNT	EAGLE	HSAP-14-ADA-FW		57	B/FS8.2
54	2	WALL MOUNTED SOAP AN DPAPER TOWEL DISPENSERS	BOBRICK	B40 W/ B-262		10	
55	1	ICE MAKER W/BIN	MANITOWOC	IYT0300A		242	H/FS8.2
56	1	AIR SCREEN	BERNER	SLC07-1072A		72	C/FS8.2

**FOODSERVICE EQUIPMENT FLOOR PLAN**

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

**1**  
**FS1.1**

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FS9.2 - FOODSERVICE EQUIPMENT ELEVATIONS	

FLOOR LEGEND			
SYMBOL/ABBREVIATION	DESCRIPTION	SYMBOL	DESCRIPTION
OFCI	OWNER FURNISH / CONTRACTOR INSTALLED	[Solid Outline]	OUTLINE OF FOODSERVICE EQUIPMENT
OFOI	OWNER FURNISH / OWNER INSTALLED	[Dashed Outline]	FOODSERVICE EQUIPMENT BELOW EQUIPMENT TOP
FSEC	FOODSERVICE EQUIPMENT CONTRACTOR	[Dotted Outline]	
VFVI	VENDER FURNISH / VENDER INSTALLED	[Thick Solid Outline]	
(E), EXIST	EXISTING FOODSERVICE EQUIPMENT	FS.1	SHEET NUMBER
(F)	FUTURE FOODSERVICE EQUIPMENT	[Thin Solid Outline]	
[Double Line]	BUILDING WALLS (SEE ARCH. DWGS.)	1	ITEM NUMBER SYMBOL (SEE EQUIPMENT SCHEDULE FOR DESCRIPTION)
[Hatched Box]	WALK-IN COOLER/ FREEZER INSULATED WALLS	KITCHEN	ROOM/ AREA NAME AND ROOM NUMBER
[Circle with C]	COLUMN GRIDS WITH COLUMN INDICATORS	[48(W)18(L)]	STORAGE SHELVING SIZES (Width x Length)

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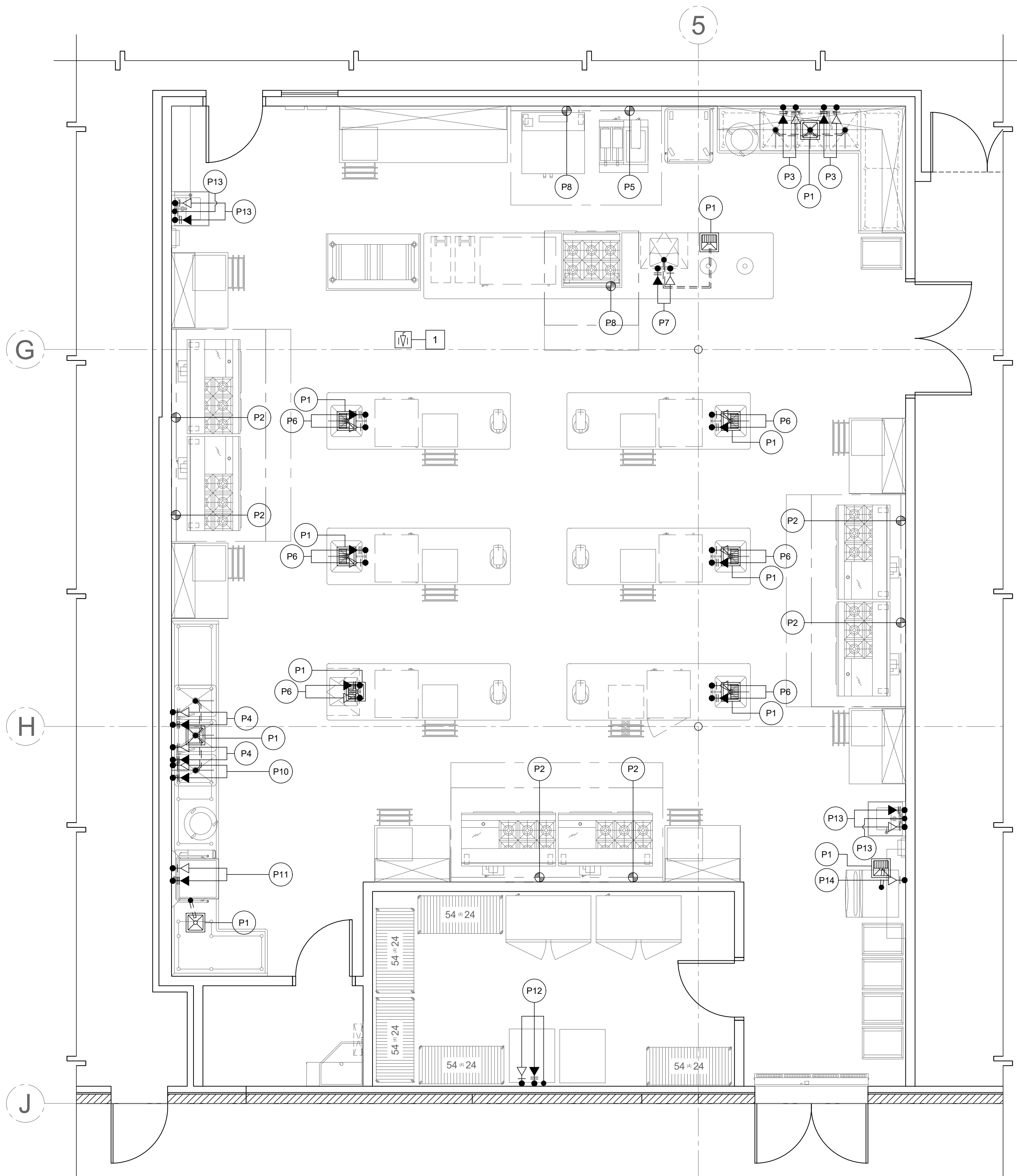


**CULINARY LAB VENTURE ACADEMY**  
**FOODSERVICE EQUIPMENT FLOOR PLAN**



PROJECT NO.	REVISIONS	BY
23-34-026		
DATE		
07/06/2023		
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SHEET NO.		

**FS1.1**



### PLUMBING SCHEDULE

PLUM. NO.	ITEM NO.	DESCRIPTION	QTY.	WATER			WASTE			GAS			REMARKS	NOTE(S)
				CONN. SIZE	H.W.	HGT. @ WALL	CONN. SIZE	INDIR.	HGT. @ WALL	BTU/HR (x1,000)	CONN. SIZE	HGT. @ WALL		
P1	-	FLOOR SINK	11EA.	-	-	-	-	-	0"	-	-	-	INSTALL FLUSH WITH FINISH FLOOR, PROVIDE GRATE COVER W/ DOME STRAINER. REFER TO PLUMBING PLANS FOR TYPE AND SIZE.	
P2	5	RANGE / GRIDDLE OVEN BASE	6EA.	-	-	-	-	-	-	278	1"	18"	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. GAS PRESSURE REGULATOR PROVIDED BY MFG.	1
P3	9	POTWASH SINK FAUCET W/ 3/4" INLET 8" CENTER	2EA.	3/4"	3/4"	16"	-	2"	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. PROVIDE 2" INDIRECT DRAIN TO F.S. P1. (CHROME OR PAINT SILVER)	
P4	17	POTWASH SINK FAUCET W/ 3/4" INLET 8" CENTER	2EA.	3/4"	3/4"	16"	-	2"	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. PROVIDE 2" INDIRECT DRAIN TO F.S. P1. (CHROME OR PAINT SILVER)	
P5	22	FRYER	1EA.	-	-	-	-	-	-	140	1"	18"	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION.	2
P6	25	STUDENT WORK STATION W/ PREP SINK 8" DECK MOUNT FAUCET	6EA.	1/2"	1/2"	16"	-	2"	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. PROVIDE 2" INDIRECT DRAIN TO F.S. P1. (CHROME OR PAINT SILVER)	
P7	30	DEMO TABLE W/ PREP SINK 8" DECK MOUNT FAUCET	1EA.	1/2"	1/2"	16"	-	2"	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. PROVIDE 2" INDIRECT DRAIN TO F.S. P1. (CHROME OR PAINT SILVER)	
P8	34	RANGE W/ OVEN BASE	1EA.	-	-	-	-	-	-	278	1"	18"	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. GAS PRESSURE REGULATOR PROVIDED BY MFG.	1
P9	37	DOUBLE STACK CONVECTION OVEN	1EA.	-	-	-	-	-	-	120	3/4"	18" / 42"	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. PROVIDE WITH MANIFOLD & GAS PRESSURE REGULATOR	3
P10	15	PRE-RINSE FAUCET, SPLASH MOUNT FAUCET W/ 1/2" INLET 8" CENTER	1EA.	1/2"	1/2"	16"	-	-	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION.	
P11	44	VENTLESS HIGH TEMP WARE WASHER W/ RAPID FILL	1EA.	3/4"	3/4"	16"	-	1 1/2"	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. PROVIDE 2" INDIRECT DRAIN TO F.S. P1.	4 5
P12	50	WASHER AND DRYER SPECIFIED BY OTHERS	1EA.	3/4"	3/4"	36"	-	2"	-	-	-	-	UNIT SPECIFIED BY OTHERS. VERIFY ALL UTILITY REQUIREMENTS WITH SPECIFIED EQUIPMENT	
P13	53	WALL MOUNTED HAND SINK FAUCET W/ 1/2" INLET 4" CENTER	2EA.	1/2"	1/2"	18"	1 1/2"	-	24"	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. RUN DIRECT WASTE WITH P-TRAP.	
P14	54	ICE MAKER AND WATER FILTER	1EA.	3/8"	-	36"	-	3/4"	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. PROVIDE 1" INDIRECT DRAIN TO F.S. P1.	

**PLUMBING KEY NOTE(S):**

- 1 UNIT TO BE CONFIGURED WITH THE FLAME SAFETY DEVICE WITH MANUAL SPARK IGNITION
- 2 UNIT TO BE CONFIGURED WITH GAS SHUT OFF VALVE
- 3 1 CONNECTION PER DECK. 2 PER ITEM QUANTITY
- 4 WATER HAMMER ARRESTOR (MEETING ASSE-1010 STANDARD) BY PLUMBER IN SUPPLY LINE.
- 5 WATER PRESSURE 15-25 PSI- IF HIGHER, FURNISH PRESSURE REGULATOR VALVE WITH INTERNAL THERMAL EXPANSION BYPASS BY PLUMBER.
- 6 PROVIDE WATER FILTER INLINE WITH WATER SUPPLY

**FIRE SYSTEM NOTE:**

1. FURNISH AUTOMATIC GAS SHUT-OFF VALVE INCLUDING ANY NECESSARY ACCESS PANEL. CONTRACTOR SHALL INSTALL THE AUTOMATIC SHUT-OFF VALVE IN AN ACCESSIBLE LOCATION. REFER TO PLUMBING DRAWINGS FOR GAS VALVE LOCATION.

## FOODSERVICE EQUIPMENT PLUMBING PLAN

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

1  
FS2.1

FOODSERVICE PLUMBING LEGEND			
ABREV./SYMB.	DESCRIPTION	SYMBOL	DESCRIPTION
C.W.	COLD WATER	○ P1	PLUMBING SCHEDULE REFERENCE. REFER TO FS2.1 FOR SCHEDULE
H.W.	HOT WATER	○ 1	SHEET AND/OR KEY NOTE
DIR.	WASTE (DIRECT CONNECTION)	▽	COLD WATER INLET
INDIR.	INDIRECT WASTE (AIR GAP)	▽ ●	HOT WATER INLET
LAV.	LAVATORY	●	WATER CONNECTION TO EQUIPMENT
W.C.	WATER CLOSET	▽	SHUT OFF VALVE (S.O.V.)
F.S.	FLOOR SINK	○	COLD WATER SHUT OFF VALVE
P.C.	PLUMBING CONTRACTOR	○	GAS SHUT-OFF VALVE
G.C.	GENERAL CONTRACTOR	□	FLOOR SINK
K.E.C.	KITCHEN EQUIPMENT CONTRACTOR	□	FLOOR DRAIN
S.O.V.	SHUT OFF VALVE	●	WASTE DOWN
GPH	GALLONS PER HOUR	●	DEGREES FAHRENHEIT
PSI	POUNDS PER SQUARE INCH	●	GAS INLET
(F)	DEGREES FAHRENHEIT	●	WALK-IN DRAIN LINE
CONN.	CONNECT	—	I.D. DRAIN LINE
LOC.	LOCATE	—	

**PLUMBING PLAN SHEET NOTES**

1 GAS SHUT-OFF VALVE FOR EXHAUST HOOD FIRE SUPPRESSION SYSTEM WITH ACCESS DOOR. REFER TO PLUMBING PLANS FOR LOCATION. MAX VALVE SIZE 3" NPT

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CULINARY LAB  
VENTURE ACADEMY

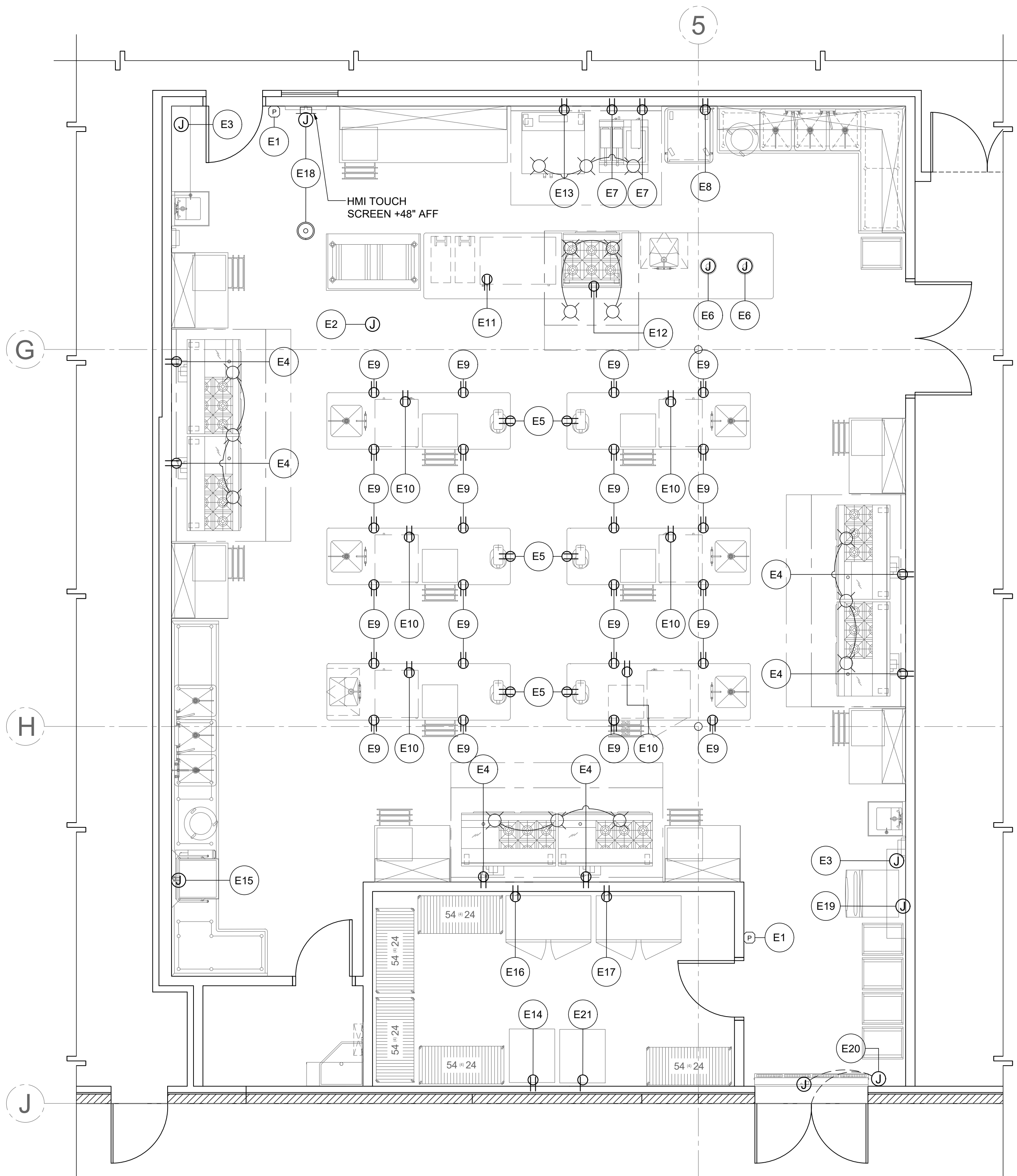
FOODSERVICE EQUIPMENT  
PLUMBING PLAN



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# FS2.1

OF 115 SHEETS



### ELECTRICAL SCHEDULE

ELEC. NO.	ITEM NO.	DESCRIPTION	QTY.	VOLT.	PH	DIRECT PLUG	NEMA	LOAD			OUTLET HEIGHT	REMARKS	NOTE(S)	
								WATT	AMPS. DRAW	HP				
E1	4.1	FIRE SYSTEM (REMOTE PULL STATION)	2EA.	-	-	X	-	-	-	-	+48"	EMPTY FLUSH MTD. OCTAGONAL BOX (REMOTE PULL) SEE FS5.3	1	
E2	4.1	FIRE SYSTEM ELECTRIC GAS S/O VALVE REFER TO PLUMBING PLANS FOR LOCATION	1EA.	120	1	X	-	-	-	-	-	PROVIDE J-BOX CONNECT TO UNIT ELECTRICAL CONNECTION REFER TO FS5.3	2 5	
E3	4.1	POWER AT ANSUL FIRE CABINET	2EA.	120	1	X	-	-	20	-	+104"	PROVIDE J-BOX CONNECT TO UNIT ELECTRICAL CONNECTION REFER TO FS5.3	5	
E4	5	RANGE W/ CONVECTION BASE	6EA.	120	1	-	X	5-15P	-	4	+18"	PROVIDE DUPLEX RECEPTACLE UNIT PROVIDED WITH CORD AND PLUG SET	4	
E5	18	TABLE TOP MIXER	6EA.	120	1	-	X	5-15P	500	-	+28"	PROVIDE DUPLEX RECEPTACLE HORIZONTALLY ON SKIRT UNDER TABLE TOP UNIT PROVIDED WITH CORD AND PLUG		
E6	21	CEILING MOUNTED HEAT LAMPS	2EA.	120	1	X	-	-	375	-	AT CEILING	INSTALLED UNDER ELECTRICAL DIVISION		
E7	22	FRYER, DEEP FAT, ELECTRIC W/FILTER	2EA.	120	1	-	X	5-15P	-	6.8	1/3	+28"	PROVIDE J-BOX IN UDC WALL ITEM 44 CONNECT TO UNIT ELECTRICAL CONNECTION	4
E8	23	CABINET, MOBILE, WARMING & HOLDING	1EA.	120	1	-	X	5-15P	1700	14.2	-	+80"	PROVIDE DUPLEX RECEPTACLE IN WALL UNIT PROVIDED WITH CORD AND PLUG SET	
E9	25	CONVENIENCE OUTLET UNDER WORKTABLE	24EA.	120	1	-	X	5-15P	-	15	-	+28"	PROVIDE DUPLEX RECEPTACLE HORIZONTALLY ON SKIRT UNDER TABLE TOP	
E10	28	REFRIGERATOR UNDER COUNTER REACH-IN	6EA.	120	1	-	X	5-15P	-	2	1/6	+18"	PROVIDE DUPLEX RECEPTACLE IN WORK TABLE UNIT PROVIDED WITH CORD AND PLUG SET	
E11	32	REFRIGERATOR UNDER COUNTER REACH-IN	1EA.	120	1	-	X	5-15P	-	3	1/5	+18"	PROVIDE DUPLEX RECEPTACLE IN WORK TABLE UNIT PROVIDED WITH CORD AND PLUG SET	
E12	34	RANGE W/ CONVECTION BASE	1EA.	120	1	-	X	5-15P	-	4	-	+18"	PROVIDE DUPLEX RECEPTACLE IN WORK TABLE UNIT PROVIDED WITH CORD AND PLUG SET	4
E13	37	DOUBLE STACK ELECTRIC CONVECTION OVEN	1EA.	120	1	-	X	5-15P	-	7.7	1/2	+18" +46"	PROVIDE DUPLEX RECEPTACLE IN WALL UNIT PROVIDED WITH CORD AND PLUG SET	4 8
E14	50	TOP LOADING WASHER UNIT (ACCESSIBLE)	1EA.	120	1	-	X	5-15P	-	7.7	1/2	+36"	PROVIDE DUPLEX RECEPTACLE IN WALL UNIT PROVIDED WITH CORD AND PLUG SET	
E15	44	HIGH TEMP WAREWASHER W/ SINGLE POINT CONNECTION	1EA.	208/240	3	X	-	-	-	53.5	-	+18"	PROVIDE J-BOX IN WALL/ SINGLE POINT CONNECTION OPTION	6
E16	48	REFRIGERATOR REACH-IN	1EA.	120	1	-	X	5-15P	-	5.4	1/2	+88"	PROVIDE DUPLEX RECEPTACLE IN WALL UNIT PROVIDED WITH CORD AND PLUG SET	
E17	49	FREEZER REACH-IN	1EA.	120	1	-	X	5-15P	-	9.6	1/2	+88"	PROVIDE DUPLEX RECEPTACLE IN WALL UNIT PROVIDED WITH CORD AND PLUG SET	
E18	4.33.38	TOUCH SCREEN USER INTERFACE/ ARTD (ROOM SENSOR) /CONTROL POWER	1EA.	120	1	-	-	-	-	5	-	+48"	CONNECT TO DEMANDAIRE CONTROL PANEL RECESS IN WALL REFER TO FS5.9 FOR ELECTRICAL SCHEMATIC	3 5 7
E19	55	ICE MAKER	1EA.	120	1	X	-	-	-	8.8	-	+60"	PROVIDE J-BOX IN WALL CONNECT TO UNIT ELECTRICAL CONNECTION	
E20	56	UNHEATED AIR CURTAIN	1EA.	120	1	X	-	-	-	3.4	1/6	+86"	PROVIDE J-BOX IN WALL INSTALL DOOR LIMIT SWITCH FOR INSTANT ON/OFF SWITCH, SEE C/FS8.2	9
E21	52	FRONT LOADING DRYER UNIT (ACCESSIBLE)	1EA.	208/240	1	-	X	-	-	-	+36"	PROVIDE SIMPLEX RECEPTACLE IN WALL UNIT PROVIDE WITH CORD AND PLUG SET		

**WALK-IN REFRIGERATION ELECTRICAL (MINIMUM REQUIREMENTS UNLESS NOTED OTHERWISE)**

- INSTALL AND INTER WIRE LIGHT SWITCHES AND FIXTURES REQUIRED FOR THE FOODSERVICE EQUIPMENT AND MAKE FINAL CONNECTIONS.
- INSTALL THE PRESSURE RELIEF PORT, DOOR HEATERS, DRAIN LINE HEATERS AND TEMPERATURE ALARM SYSTEM. INTER WIRING AND FINAL CONNECTIONS.
- INTER WIRE THE TIME CLOCK ON THE CONDENSING UNIT TO THE DEFROST RELAY ON THE UNIT EVAPORATOR LOCATED IN THE FREEZER COMPARTMENT.
- PROVIDE ALL CONDUIT AND WIRING NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM WITH ALL CONDUIT IN SO FAR AS POSSIBLE MOUNTED ON THE EXTERIOR CEILING OF THE WALK-IN ASSEMBLY. PENETRATIONS AND ESCUTCHEON PLATES SHALL BE FURNISHED AND INSTALLED. SEAL THE INSIDE OF CONDUITS WHICH PENETRATE THE CEILING OR WALL OF THE WALK-IN REFRIG. AND FREEZER

**ELECTRICAL KEYNOTES:**

- PROVIDE EMPTY FLUSH MTD. OCTAGONAL BOX @ +48" AFF. W/ EMPTY CONDUIT TO +2" ABOVE CEILING.
- ELECTRICAL CONTRACTOR TO PROVIDE J-BOX W/ EMPTY CONDUIT FROM +2" ABOVE CEILING IN WALL TO AMBIENT TEMPERATURE MONITOR AND HMI TOUCH SCREEN.
- INTERCONNECT TO HMI TOUCH SCREEN SEE FS5.9
- PROVIDE INTERLOCK WIRING FROM FIRE PROTECTION SYSTEMS TO ELEC. SHUNT TRIP BREAKERS
- VERIFY AND PROVIDE ALL J-BOXES, ELECTRICAL CONDUIT AND CONNECTIONS NEEDED FOR PROPER OPERATION / CONFIGURATION OF EXHAUST HOOD AND FIRE SYSTEM. REFER TO FS5.1-FS5.3 FOR DETAILS.
- PROVIDE ALL REQUIRED COMPONENTS FOR SINGLE POINT CONNECTION
- TOUCH SCREEN UI TO CONTROL EACH HOOD INDIVIDUALLY
- CONNECTIONS ARE PER DECK 1 @ 18" AND 1 @ 48"
- PROVIDE 1 SWITCH PER DOOR

## FOODSERVICE EQUIPMENT ELECTRICAL PLAN

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

1  
FS3.1

ELECTRICAL PLAN LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AFF	ABOVE FINISHED FLOOR	⊙	ROOM TEMPERATURE SENSOR
CLG.	CEILING	Ⓝ	JUNCTION BOX
CONN.	CONNECT	▲	DATA OUTLET
E.C.	ELECTRICAL CONTRACTOR	Ⓚ	EMPTY OCTAGONAL BOX W/ CONDUIT TO +2" ABOVE CEILING BY E.C.
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR	⊕	VAPOR-PROOF LIGHT FIXTURE AT EXHAUST HOOD (PROVIDED BY F.S.E.C. INSTALLED BY E.C.)
G.C.	GENERAL CONTRACTOR	Ⓝ	STUBBED-UP JUNCTION BOX
P.R.P.	PRESSURE RELIEF PORT	Ⓚ	STUBBED-UP CONVENIENCE OUTLET
S.F.	STAINLESS STEEL FABRICATOR	Ⓚ	STUBBED-UP SIMPLEX OUTLET
M.C.	MECHANICAL CONTRACTOR	▲	STUBBED-UP DATA OUTLET
LOC.	LOCATE	Ⓚ	WALL MOUNTED SWITCH BY E.C.
E1	ELECTRICAL SCHEDULE REFERENCE, REFER TO FS3.2 FOR SCHEDULE	Ⓚ	VAPOR-PROOF LED FIXTURE PROVIDED BY F.S.E.C. INSTALLED BY E.C.)
1	SHEET AND/OR KEY NOTE	Ⓚ	VAPOR-PROOF LIGHT FIXTURE AT WALK-IN PROVIDED BY F.S.E.C. INSTALLED BY E.C.)
Ⓚ	DUPLEX CONVENIENCE OUTLET 115V/1Ø UNLESS OTHERWISE NOTED		
Ⓚ	SIMPLEX OUTLET SEE SCHEDULE FOR VOLTAGE		
⊕	CEILING MOUNTED, VAPOR-PROOF LIGHT FIXTURE W/ JUNCTION BOX, 115V/1Ø UNLESS OTHERWISE NOTED (WALK-IN REFRIGERATOR)		

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CULINARY LAB  
VENTURE ACADEMY

FOODSERVICE EQUIPMENT  
ELECTRICAL PLAN

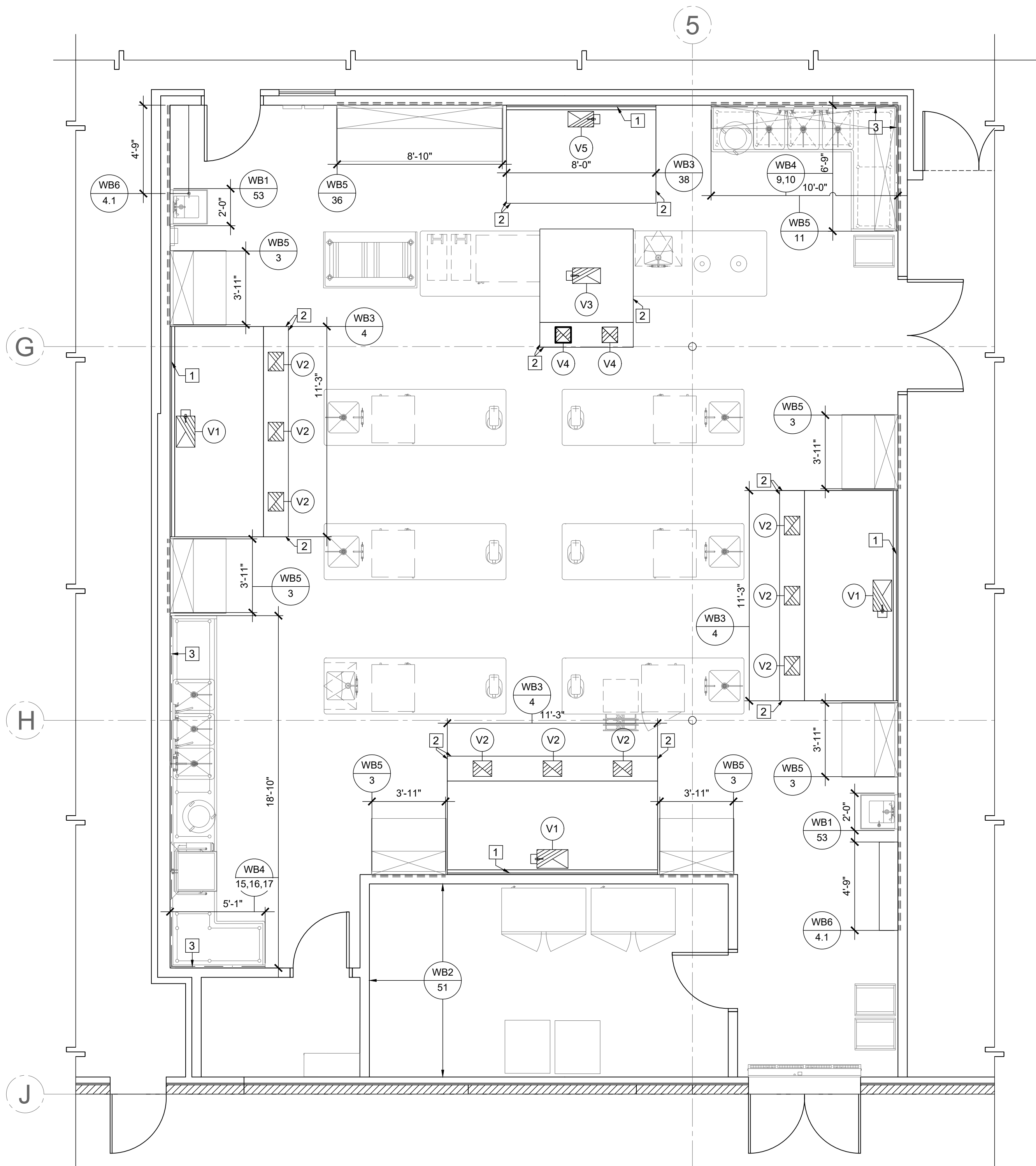


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CADFILE		
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UPDATED		

SHEET NO.

# FS3.1

OF 115 SHEETS



VENTILATING REQUIREMENTS										
DUCT NO.	ITEM NO.	DESCRIPTION	ITEM QTY.	RISER SIZE			OUTLET		REMARKS	
				HEIGHT	WIDTH	LENG.	CFM	S.P.-WC"		HEIGHT
V1	4	EXHAUST DUCT EXHAUST HOOD	3EA.	8"	12"	20"	2363	0.63"	108"	MAKE DUCT CONNECTION AT HOOD COLLAR REFER TO FSS.1 FOR EXHAUST HOOD DETAILS
V2	4	SUPPLY DUCT EXHAUST HOOD	9EA.	3"	10"	12"	630	0.40"	108"	MAKE DUCT CONNECTION AT HOOD COLLAR REFER TO FSS.1 FOR EXHAUST HOOD DETAILS
V3	33	EXHAUST DUCT EXHAUST HOOD	1EA.	8"	18"	10"	1750	0.57"	108"	MAKE DUCT CONNECTION AT HOOD COLLAR REFER TO FSS.2 FOR EXHAUST HOOD DETAILS
V4	33	SUPPLY DUCT EXHAUST HOOD	2EA.	3"	10"	10"	500	0.40"	108"	MAKE DUCT CONNECTION AT HOOD COLLAR REFER TO FSS.2 FOR EXHAUST HOOD DETAILS
V5	38	EXHAUST DUCT EXHAUST HOOD	1EA.	8"	17"	10"	1680	0.63"	108"	MAKE DUCT CONNECTION AT HOOD COLLAR REFER TO FSS.2 FOR EXHAUST HOOD DETAILS

- COOKING EXHAUST HOOD NOTES**
- EACH AREA CONTAINING COOKING EXHAUST HOOD(S) WILL HAVE 80% MECHANICAL MAKE-UP AIR PROVIDED IN THE VOLUME OF THE AIR BEING EXHAUSTED.
  - MAKE-UP AIR SHALL BE DELIVERED IN THE PROXIMITY OF THE EXHAUST HOOD(S) IN A MANNER NOT TO CREATE UNDUE AIR TURBULENCE IN THE WORKING AREAS.
  - COOKING HOOD(S) EXHAUST AND MAKE-UP AIR SYSTEM(S) WILL BE CONNECTED BY AN ELECTRICAL INTER-LOCKING SWITCH.
  - MAKE-UP AIR INTAKE MUST CLEAR AIR EXHAUST DISCHARGE BY A MINIMUM OF TEN (10) FEET, OR AS REQUIRED BY CODE(S).
  - LOCATION OF COOKING HOOD EXHAUST DUCT(S) AND MAKE-UP AIR SYSTEM DUCT(S) ARE TO BE VERIFIED AT THE JOB SITE.
  - IF REQUIRED BY LOCAL CODE(S), MAKE-UP AIR SYSTEM(S) SHALL BE CAPABLE OF DELIVERING TEMPERED AIR AT 70 DEGREES F..
  - CONNECTING DUCTS FROM THE EXHAUST VENTILATORS TO THE EXHAUST AND/OR MAKE-UP AIR FANS SHALL BE SUPPLIED AND INSTALLED WITH ALL FINAL CONNECTIONS.
  - PERFORMANCE TESTING FOR THE OPERATION OF THE TYPE 1 EXHAUST HOOD PER U.M.C. IS REQUIRED
  - EXTRACTOR HOODS SHALL COMPLY TO THE C.M.C 2019, NFPA-96, U.L, N.S.F, AND ALL LOCAL CODES AN ORDINANCES.

- WALL BACKING NOTES**
- WALL BACKING TO BE 16 GAUGE GALV. STEEL IN LENGTH AND HEIGHT AS SHOWN ON DRAWINGS.
  - ALL WALL BACKING TO BE IN FURNISHED AND INSTALLED BY CONTRACTOR
  - FOOD SERVICE EQUIPMENT CONTRACTOR IS TO FURNISH CONTRACTOR WITH DETAILED DRAWINGS SHOWING ALL WALL BACKING LOCATION AND SIZE.
  - WALL BACKING AS SHOWN IS MINIMUM, EXTEND BACKING TO NEXT STUD EACH DIRECTION AS NECESSARY

**WALL BACKING SCHEDULE**

	APPLICATION	BOTTOM OF BACKING	BACKING HGT.	FASTENERS PER STUD	ANCHORAGE DETAIL
WB1 53	HAND SINK	+16" AFF	26" HIGH	4	B/FS8.2
WB2 51	DRY STO. SHELVING	+69" AFF	12" HIGH	2	D/FS8.2
WB3 4,38	WALL LINING	+76" AFF +53" AFF +29" AFF +6" AFF	4" HIGH	2	I/FS8.1
WB4 9,10,15,16,17	WALL SPLASH	+80" AFF +48" AFF	4" HIGH	2	J/FS8.1
WB5 3,11,36	WALL MTD. CABINET	+60" AFF	20" HIGH	3	H/FS8.1
WB5 4,1	WALL MTD. FIRE SYSTEM	+80" AFF	20" HIGH	3	E/FS8.1

NOTES:  
 1. BACKING TO BE 16 GA. G.I. OR C.R.S.  
 2. REFER TO 1/FS4.1 FOR WALL BACKING LOCATIONS  
 3. DRY STO. SHELVING, FASTEN SHELVING TO BACKING WITH #14 SMS.

- MECHANICAL SHEET NOTES**
- 18 GA. STAINLESS STEEL WALL LINING PANELS (MINIMUM WIDTH TO BE 36") WITH 1" MINERAL WOOL BLANKET AND WIRE MESH BACKING OR CERAMIC FIBER BLANKET AND WIRE MESH BACKING SPACES OUT 1" ON NON-COMBUSTIBLE SPACERS WALL LINING TO MEET THE REQUIREMENTS OF NFPA-96 AND LOCAL CODES. WALL LINING SHALL BE FABRICATED WITH VERTICAL FLUTES EVERY 6" AS SHOWN, AND THE WIDTH OF THE EXHAUST HOOD INCLUDING FIRE SYSTEM CABINET
  - PROVIDE STAINLESS STEEL CLOSURE SKIRTING, REFER TO 4/FS4.1
  - STAINLESS STEEL WALL SPLASH J/FS8.1

**FOODSERVICE MECHANICAL LEGEND**

ABREV./SYMB.	DESCRIPTION	ABREV./SYMB.	DESCRIPTION
F.S.E.C	FOODSERVICE EQUIPMENT CONTRACTOR	⊕	VENTILATING SCHEDULE REFERENCE REFER TO FS4.1 FOR SCHEDULE
M.C.	MECHANICAL CONTRACTOR	1	KEYNOTE SYMBOL (SEE SHEET NOTES FS4.1)
S.F.	STAINLESS STEEL FABRICATOR	#	BLOCKING TYPE REFER TO FS4.1
G.C.	GENERAL CONTRACTOR	#	BLOCKING TYPE REFER TO FS4.1
E.C.	ELECTRICAL CONTRACTOR	----	WALL BACKING
CFM	CUBIC FEET PER MINUTE	▀	EXHAUST DUCT CONNECTION
SP	STATIC PRESSURE	▨	SUPPLY DUCT CONNECTION
----	S/S WALL SPLASH REFER TO J/FS8.1		
----	FOAMED-IN WALL BACKING BY WALK-IN MANUFACTURER		
----	INSULATED S/S WALL LINING 1/FS4.1 FOR LOC.		

**FOODSERVICE EQUIPMENT MECHANICAL PLAN**

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

1  
FS4.1

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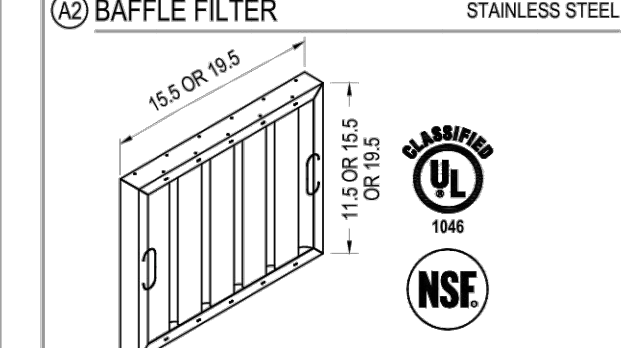
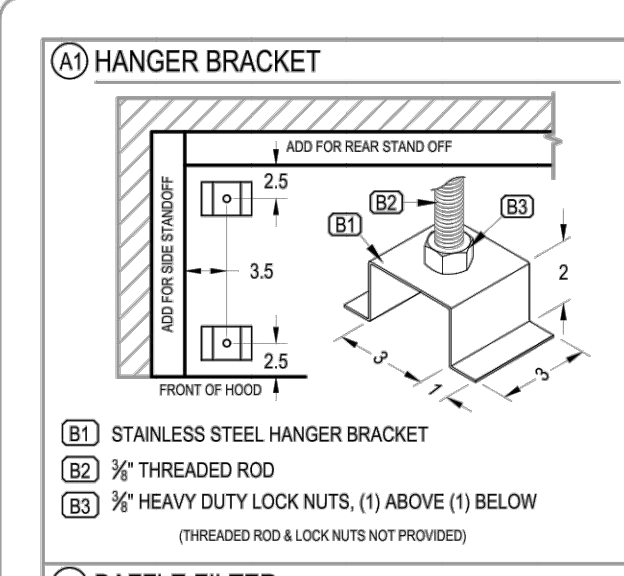
CULINARY LAB VENTURE ACADEMY  
 FOODSERVICE EQUIPMENT MECHANICAL PLAN



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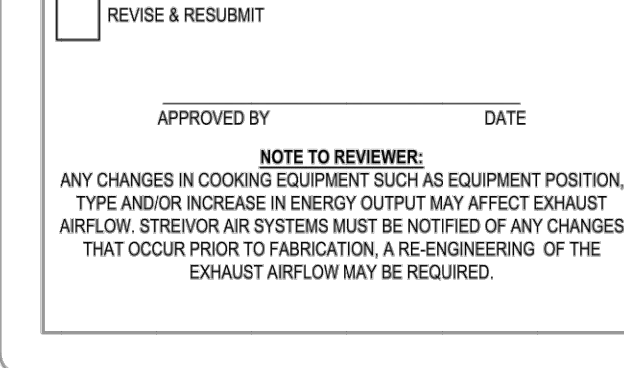
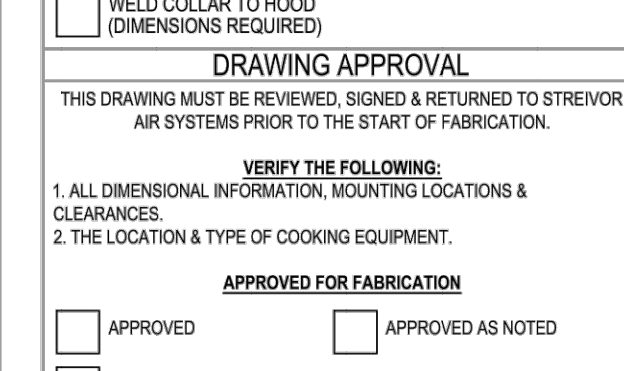
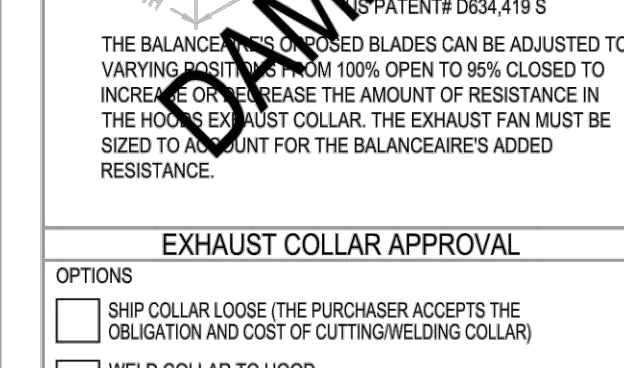
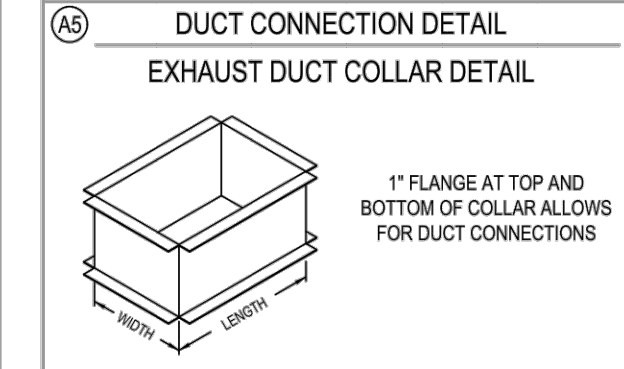
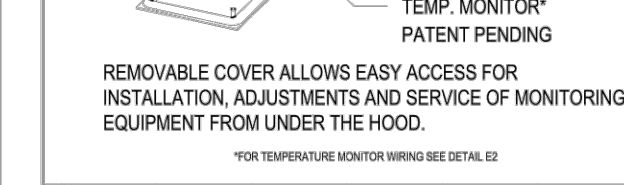
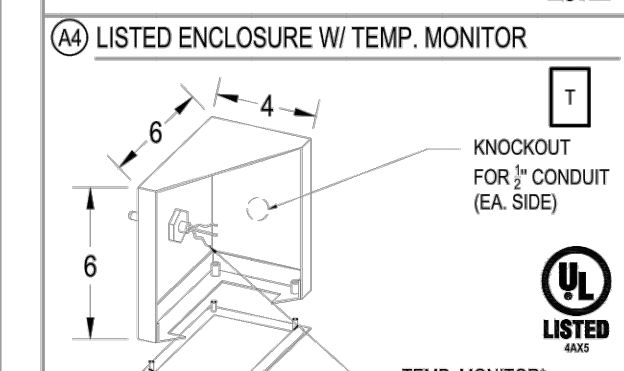
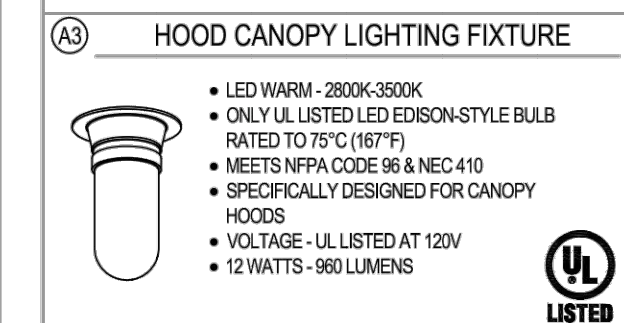
FS4.1

OF 115 SHEETS



1.75"	1.75"	#40A	#40B	#40C	
FFL AREA	QTY	AREA	QTY	AREA	
1616	1.36	X 3	4.08	3	4.08
1820	1.75	X 4	7.00	4	7.00
TOTAL EFF AREA = 11.08		= 11.08		= 11.08	

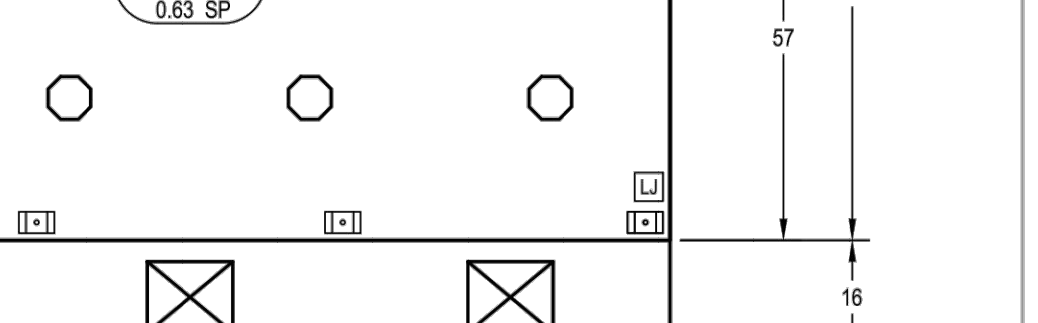
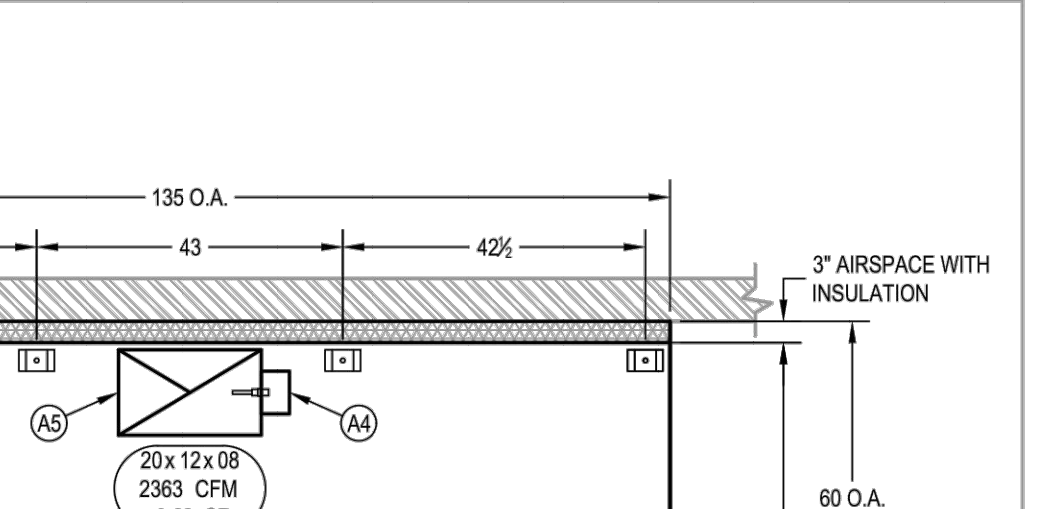
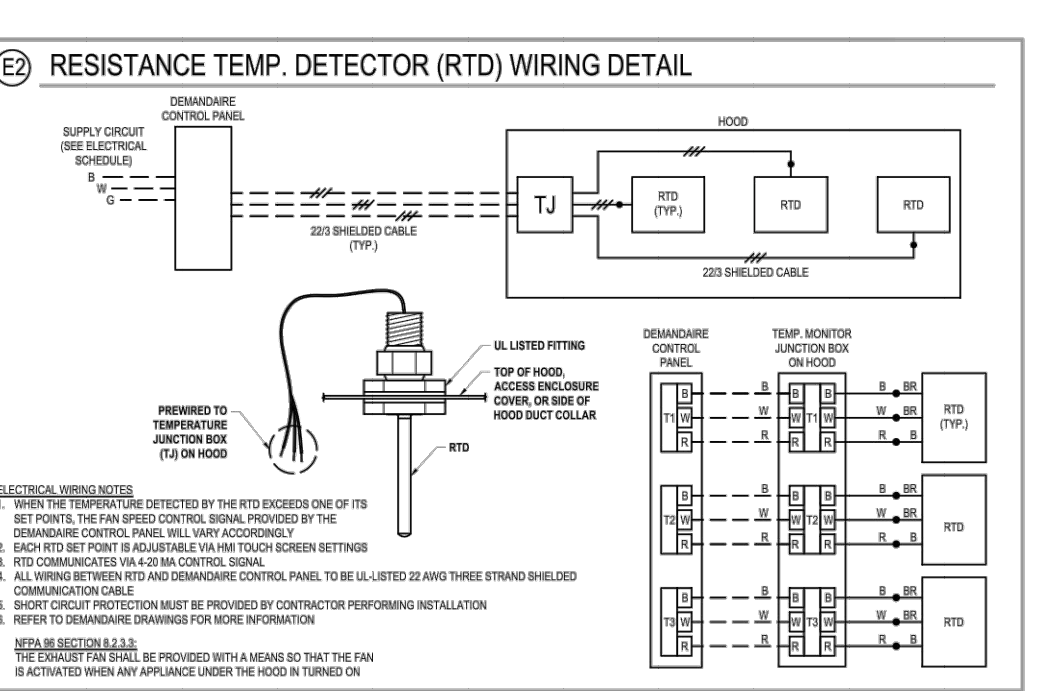
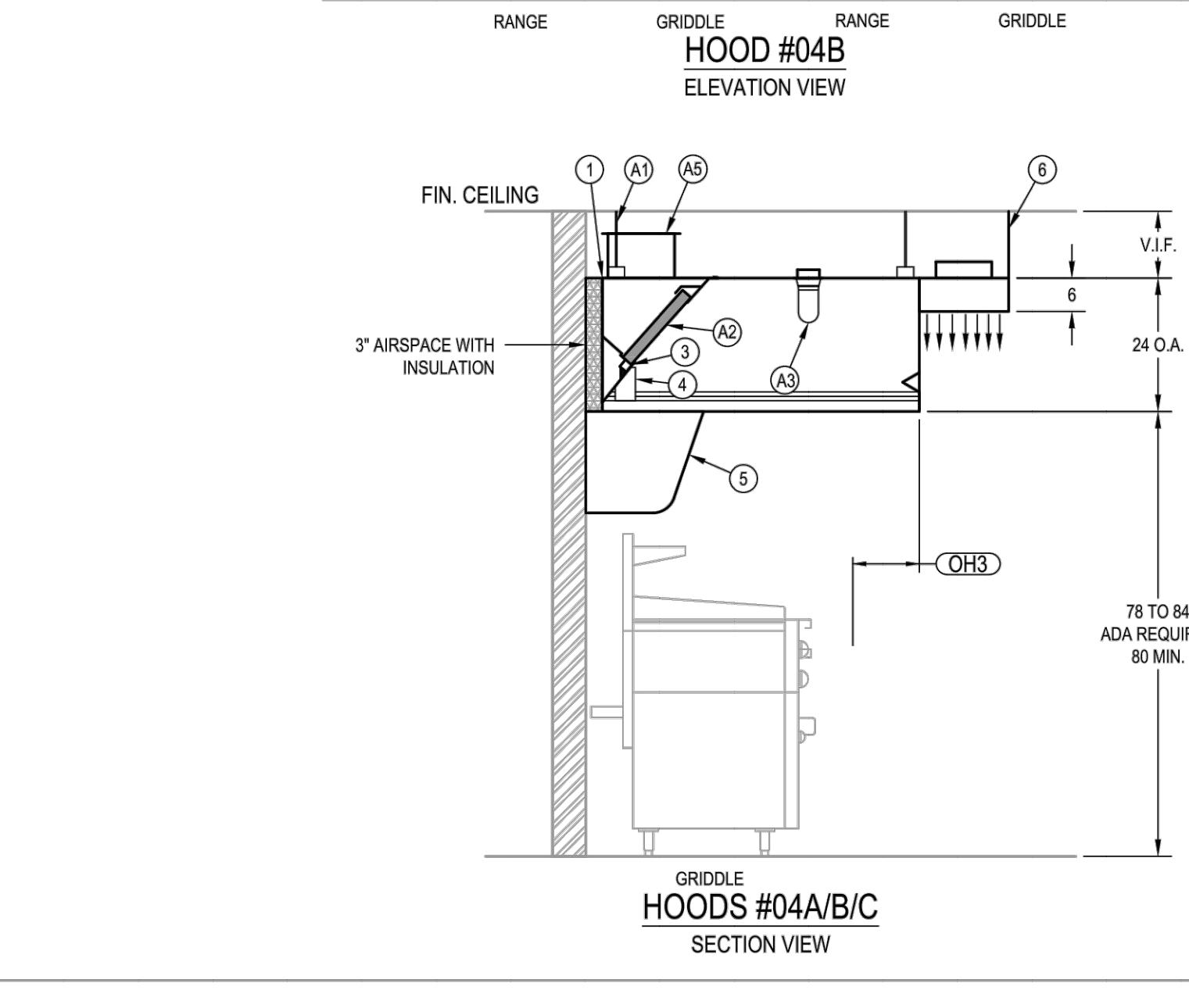
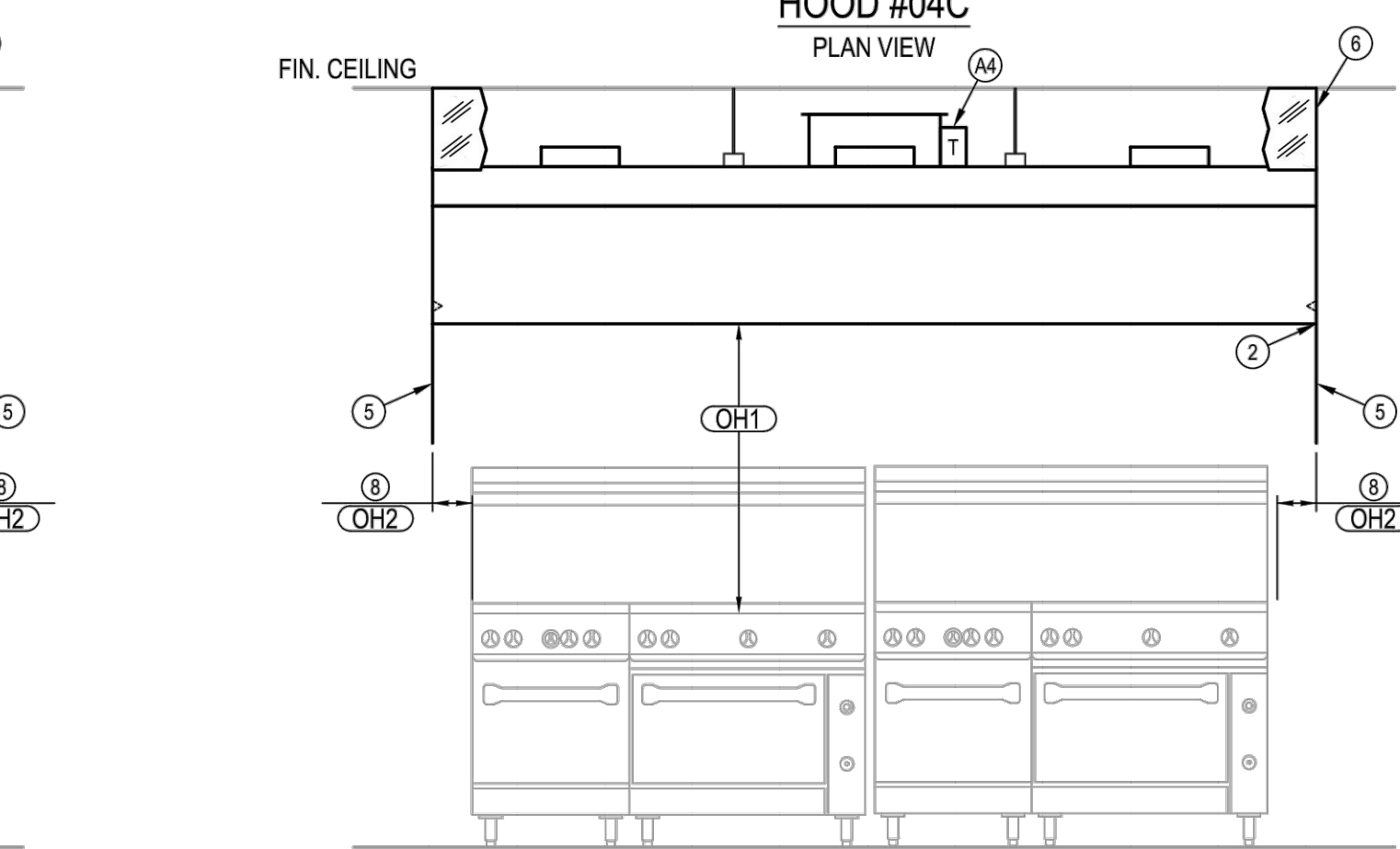
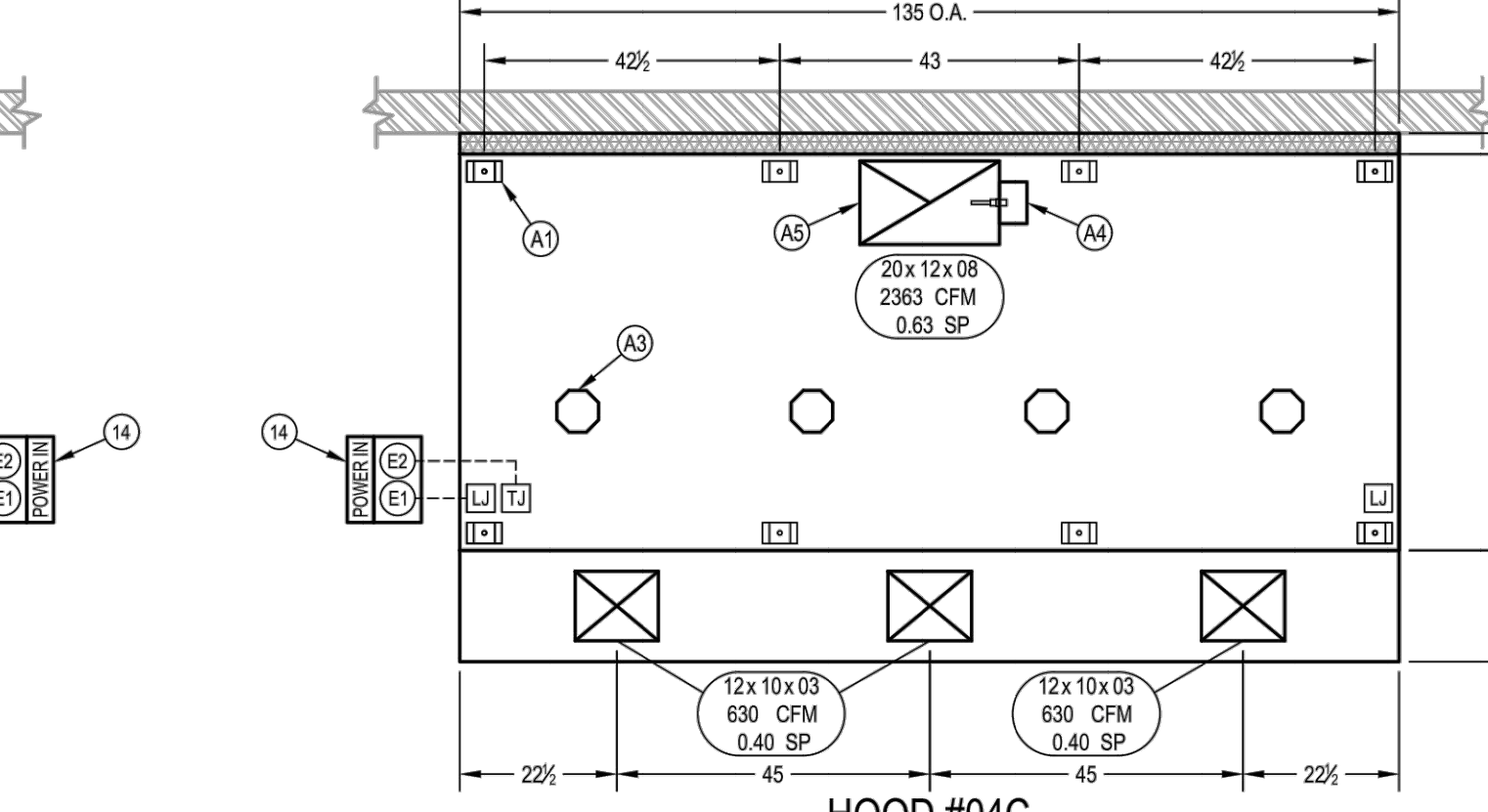
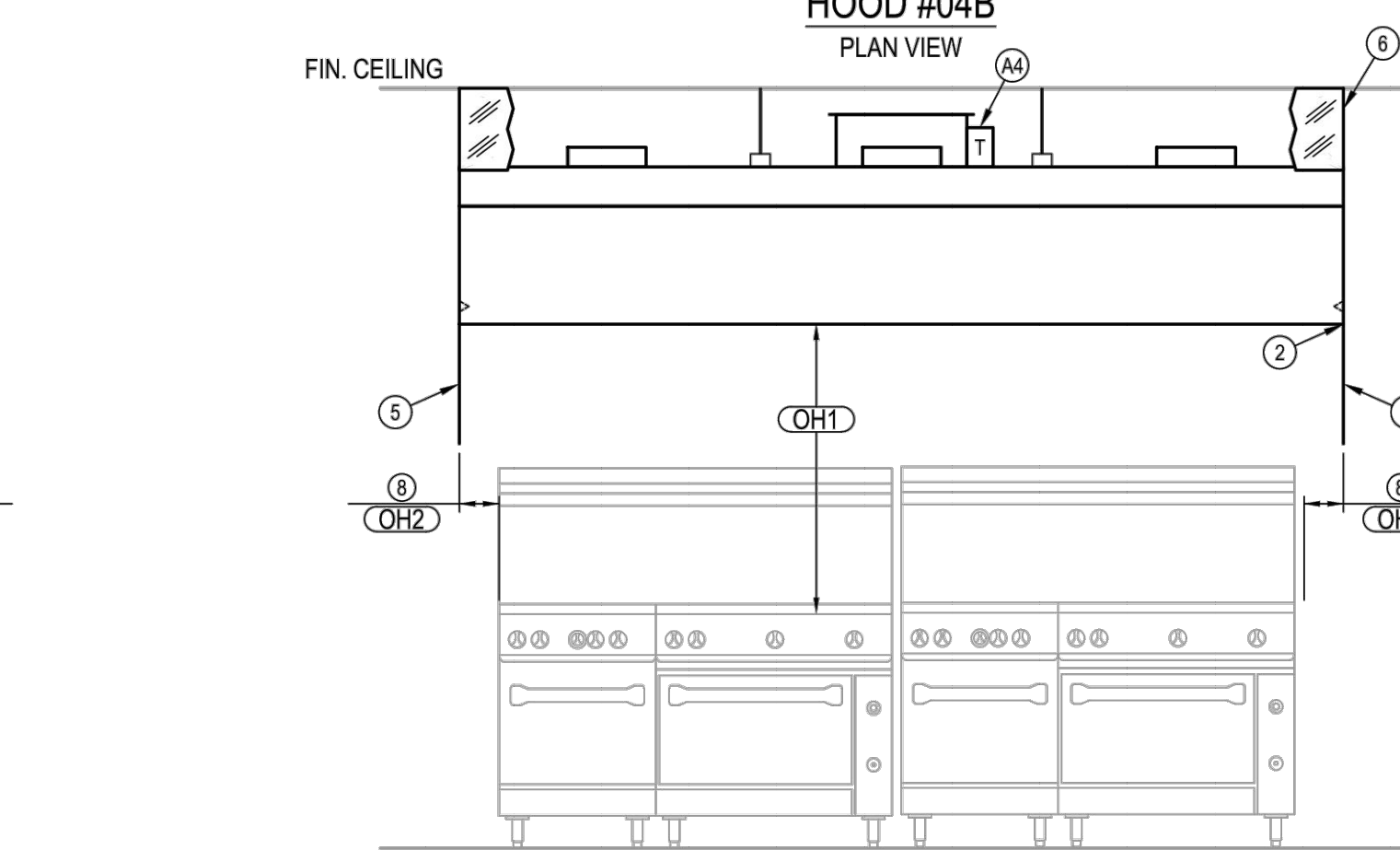
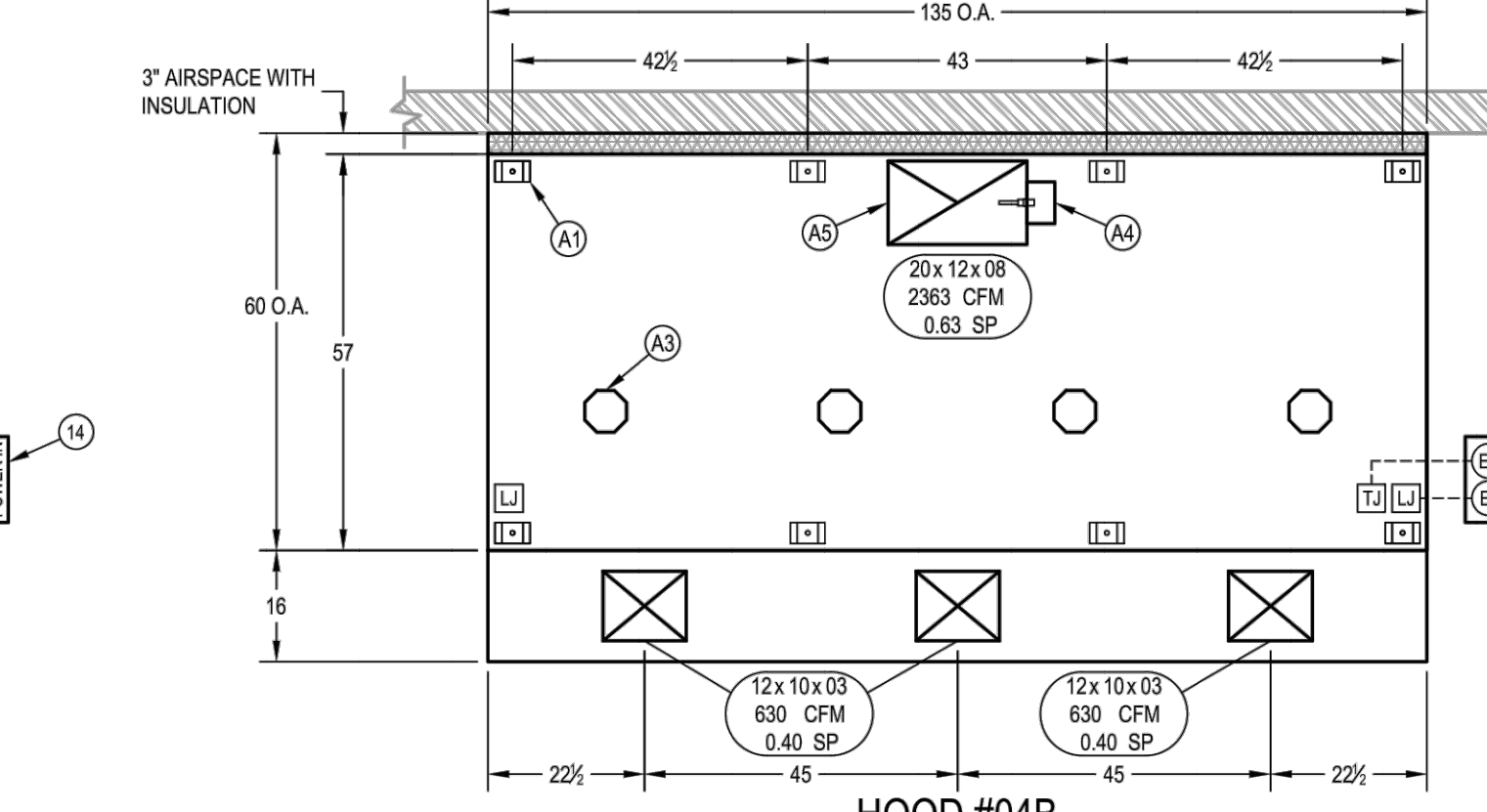
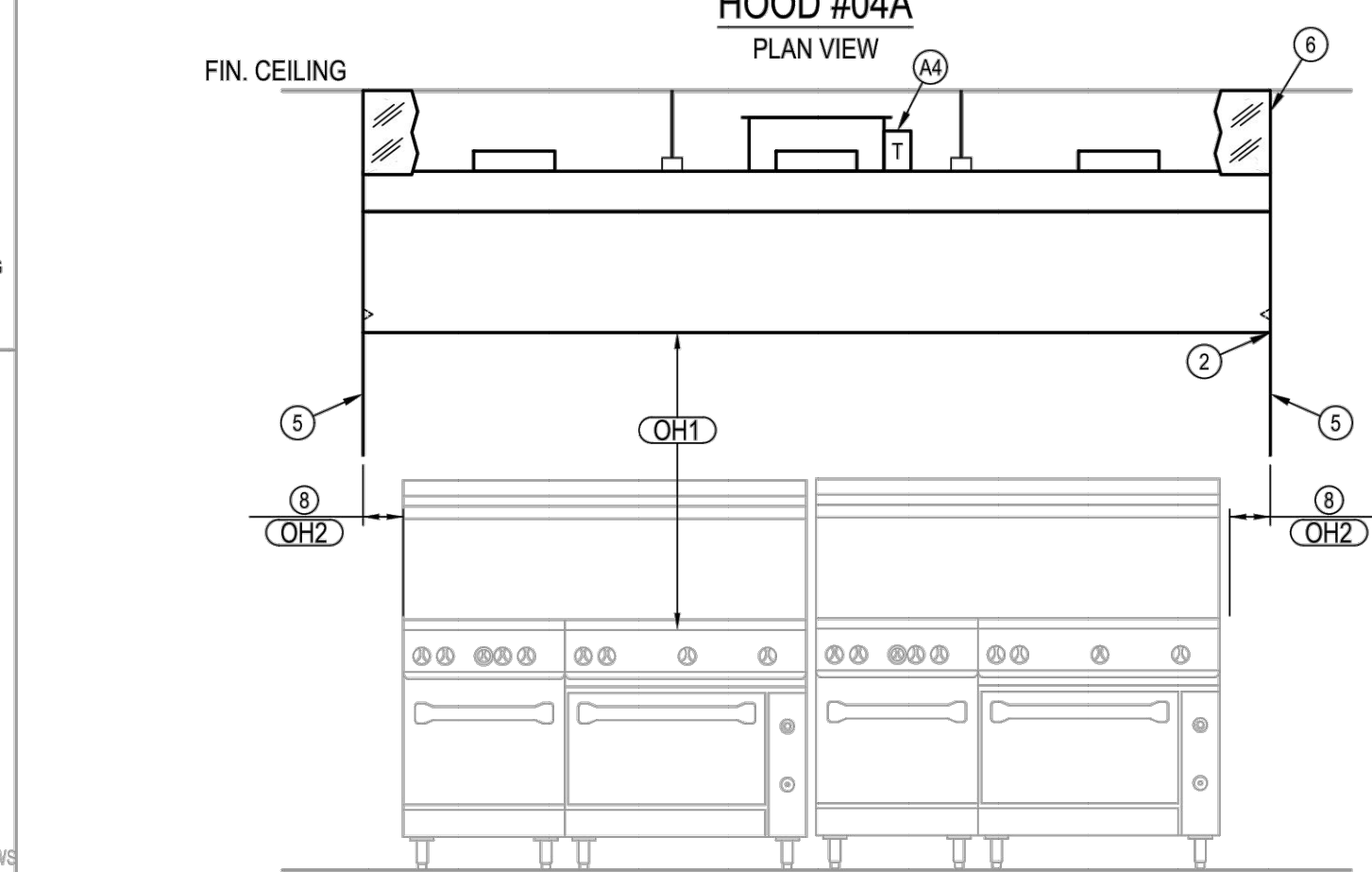
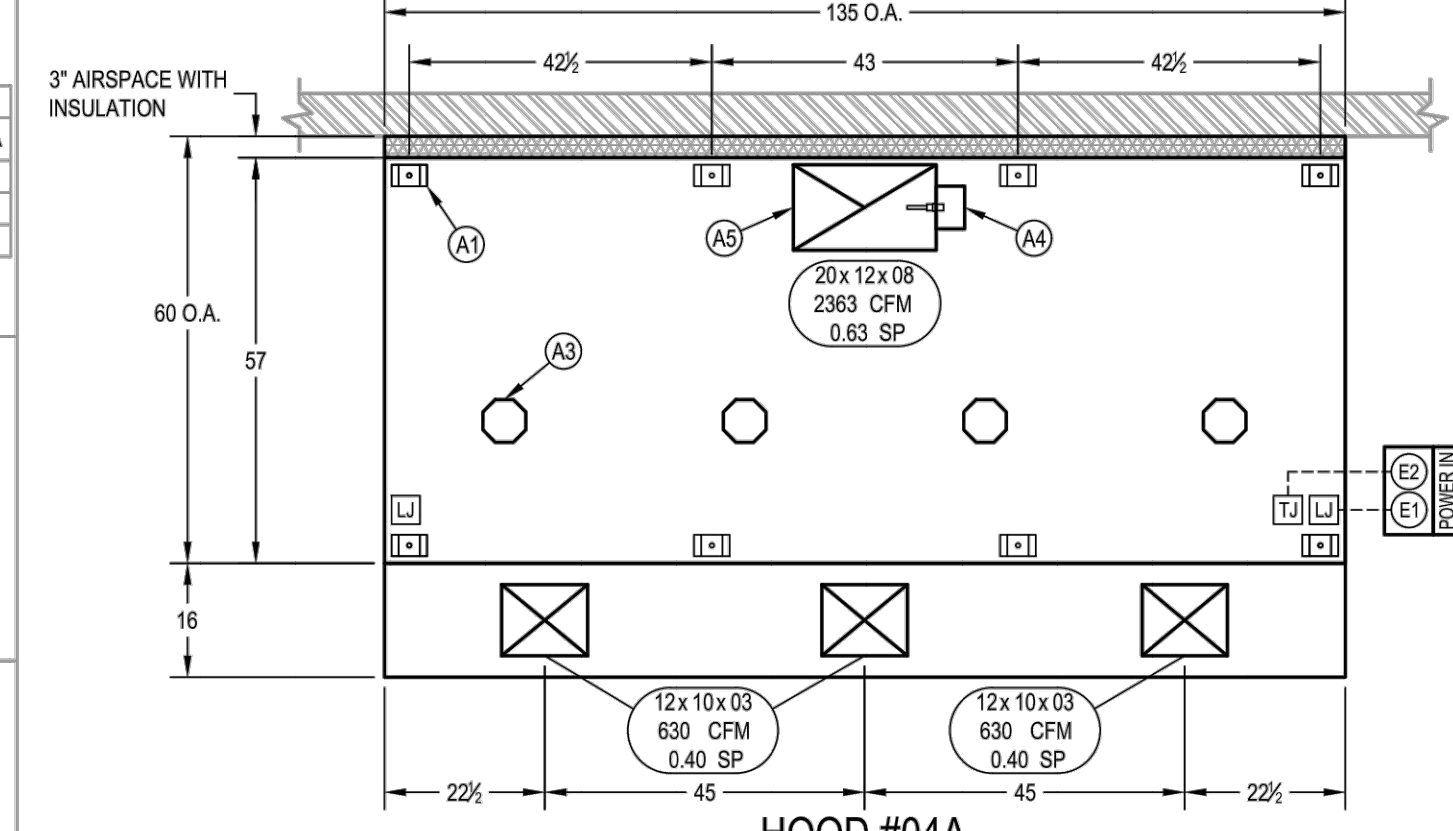
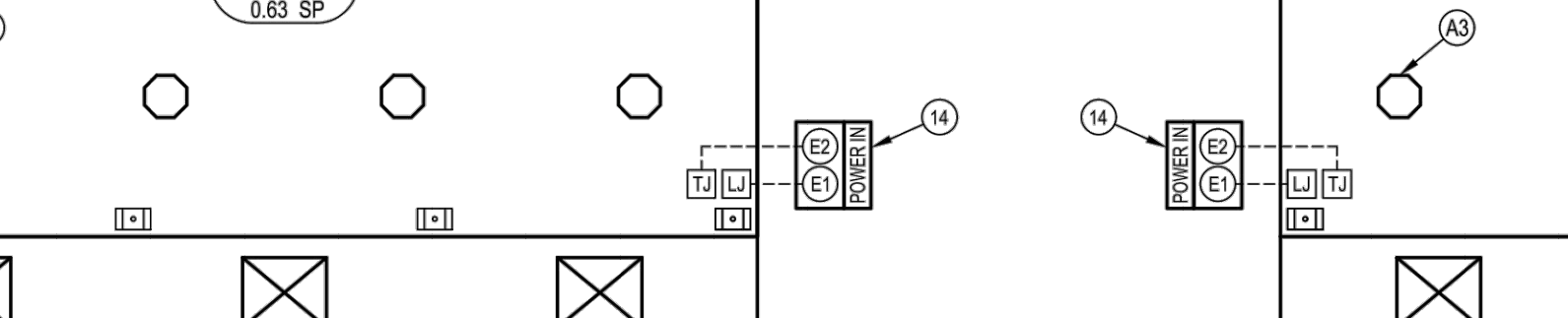
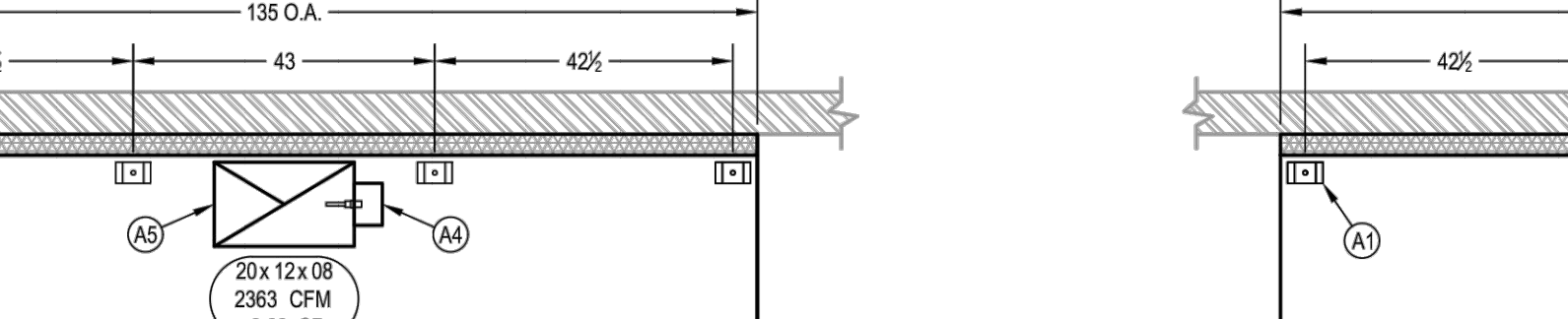
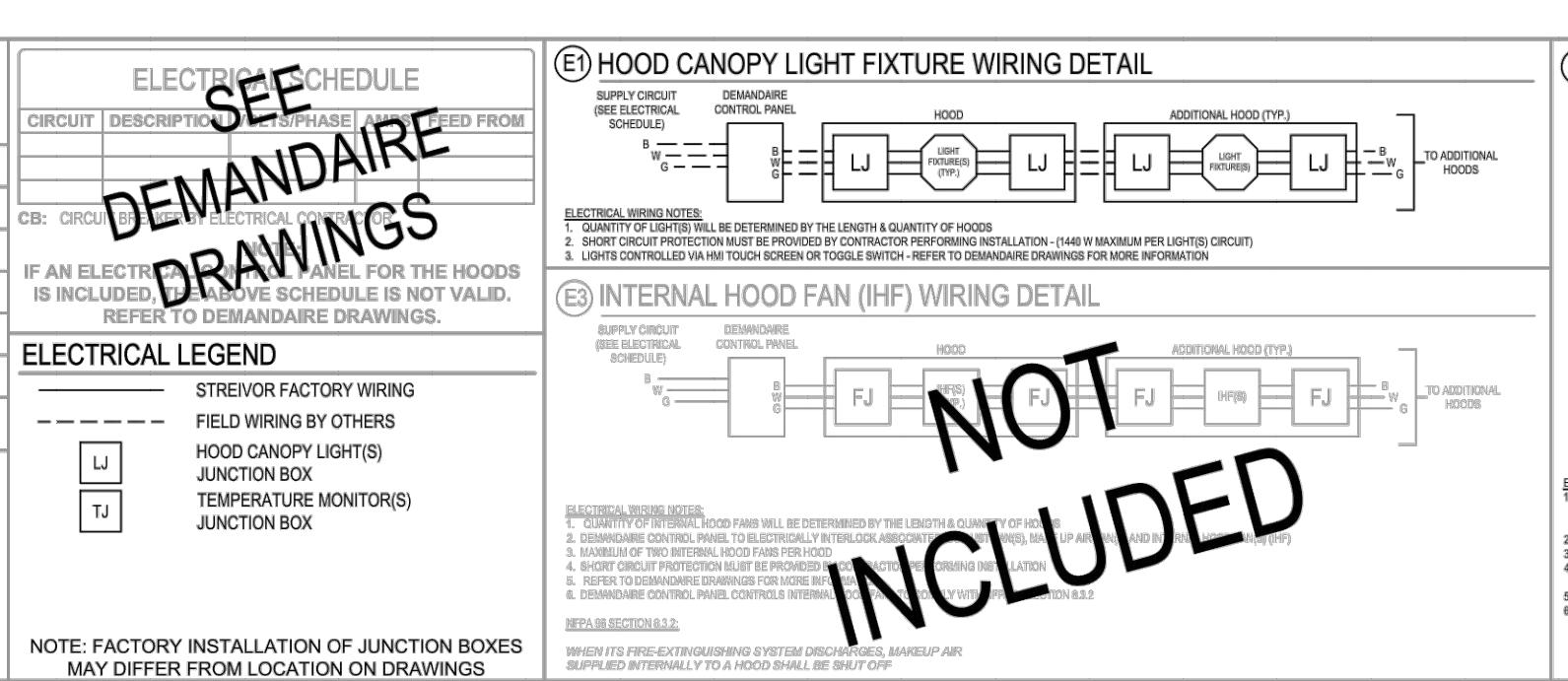
TOTAL EX. CFM = TOTAL EFF AREA = FPM  
OPERATING RANGE OF THE FILTER (200 TO 400 FPM)



HOOD SCHEDULE					EXHAUST								
NO.	MODEL	L	W	H	WEIGHT	SPEC. CFM	SP	CFM/FT	MIN.	MAX.	SIDE	FRONT	MAX.
04A	WBCD 1355724	135	57	24	784	2363	0.63	210	36	48	6	6	450
04B	WBCD 1355724	135	57	24	784	2363	0.63	210	36	48	6	6	450
04C	WBCD 1355724	135	57	24	784	2363	0.63	210	36	48	6	6	450

HOOD CANOPY MATERIAL: ALL 304 SERIES STAINLESS STEEL

SEE ELECTRICAL SCHEDULE - CONSULT FACTORY FOR ALTERNATE INPUT POWER LOCATION(S)



GENERAL NOTES:

NOTES TO ARCHITECT AND/OR CONTRACTOR: STREIVOR, INC. (STREIVOR AIR SYSTEMS, STREIVOR STAINLESS) IS A SPECIALIST IN THE LAYOUT AND DESIGN OF KITCHEN VENTILATION SYSTEMS, AND IN NO WAY PURPORTS TO BE ARCHITECTS OR ENGINEERS.

THIS PLAN IS SUBMITTED FOR THE CONVENIENCE OF THE ARCHITECT AND/OR CONTRACTOR AND IS DONE FROM AVAILABLE ARCHITECTURAL INFORMATION. ALL MEASUREMENTS ARE SUBJECT TO PHYSICAL VERIFICATION AND ANY DEVIATIONS OR DISCREPANCIES SHALL BE DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN WRITING.

STREIVOR, INC. ACCEPTS NO RESPONSIBILITY FOR WORK DONE BY SAID ARCHITECT OR GENERAL CONTRACTOR OR THEIR REPRESENTATIVES OR SUBCONTRACTORS, AND WILL NOT STAND ANY EXPENSE FOR CHANGES MADE NECESSARY DUE TO LOCAL BUILDING CODES, ORDINANCES, STRUCTURAL CONDITIONS, OR BY ANY SUBSTITUTIONS OR CHANGES IN EQUIPMENT SHOWN ON THIS PLAN.

ANY ERRORS, AMBIGUITIES OR OMISSIONS IN THIS PLAN OR SPECIFICATIONS SHALL BE REPORTED TO STREIVOR, INC. FOR CORRECTIONS BEFORE ANY OF THE WORK IS STARTED. UNLESS EXPRESSLY STIPULATED, NO ADDITIONAL ALLOWANCE WILL BE MADE IN FAVOR OF THE OWNER OR CONTRACTOR BY VIRTUE OF ERROR, AMBIGUITY OR OMISSION WHICH SHOULD HAVE BEEN DISCOVERED DURING THE PREPARATION OF BID ESTIMATES, AND DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN A TIMELY MANNER.

PRE - INSTALLATION

OBTAIN, READ AND UNDERSTAND STREIVOR'S HOOD INSTALLATION, OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLATION, STARTUP OR BALANCING.

INSTALLATION

ALL INSTALLATION, STARTUP AND BALANCING MUST BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH ALL APPLICABLE PREVAILING CODES AND STANDARDS.

STANDARD NFPA 96 HOOD CLEARANCES

7' TO NON-COMBUSTIBLE MATERIALS

3' TO LIMITED-COMBUSTIBLE MATERIALS

18" TO COMBUSTIBLE MATERIAL

OVERHEAD CLEARANCES

10' CLEARANCE IS REQUIRED ABOVE THE HOOD

REDUCED CLEARANCES

REDUCED CLEARANCES MAY BE AVAILABLE. CONSULT FACTORY FOR REDUCED CLEARANCE OPTIONS.

TEST AND BALANCE

THE SPECIFIED EXHAUST CFMS LISTED ON THIS DRAWING MUST BE MET DURING TEST AND BALANCE OF THE HOOD SYSTEM(S).

VARIANCE EXHAUST = -0% - +10%

VARIANCE SUPPLY = -10% - +0%

STREIVOR™ AIR SYSTEMS

"STRIVING FOR EXCELLENCE"

2150 KITTY HAWK ROAD, LIVERMORE, CA 94551

PHONE: (925) 960-9090 FAX: (925) 960-9055

WWW.STREIVOR.COM

PROJECT:

VENTURE ACADEMY - CULINARY LAB

AMD FOODSERVICE DESIGN

DESCRIPTION	DATE	INT
REMOVED CABINETS	09/20/23	SWB
SEE H-02	12/01/23	AVB
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---	---	---

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

NOTE TO REVIEWER:

ANY CHANGES IN COOKING EQUIPMENT SUCH AS EQUIPMENT POSITION, TYPE AND/OR INCREASE IN ENERGY OUTPUT MAY AFFECT EXHAUST AIRFLOW. STREIVOR AIR SYSTEMS MUST BE NOTIFIED OF ANY CHANGES THAT OCCUR PRIOR TO FABRICATION. A RE-ENGINEERING OF THE EXHAUST AIRFLOW MAY BE REQUIRED.

PROJECT NO. 23-34-026

DATE 07/06/2023

DRAWN SLH

CHECKED SLH

SCALE

CADFILE FSS.1.DWG

UPDATED

SHEET NO.

PROJECT NO. 23-34-026

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REVISIONS

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PROJECT NO. 23-34-026

REVISIONS

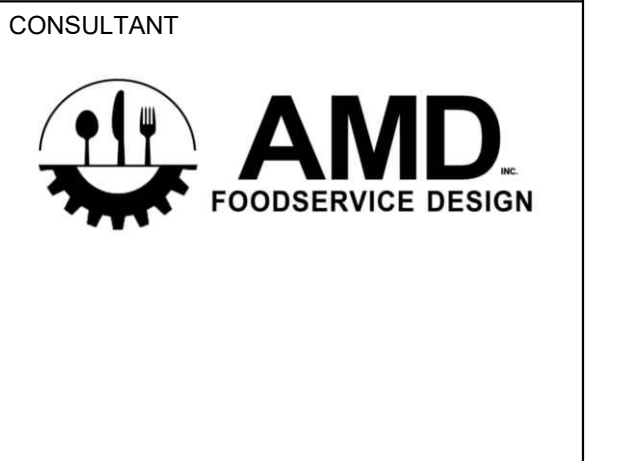
BY

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CULINARY LAB VENTURE ACADEMY

FOODSERVICE EQUIPMENT EXHAUST HOOD DETAILS



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CADFILE FSS.1.DWG

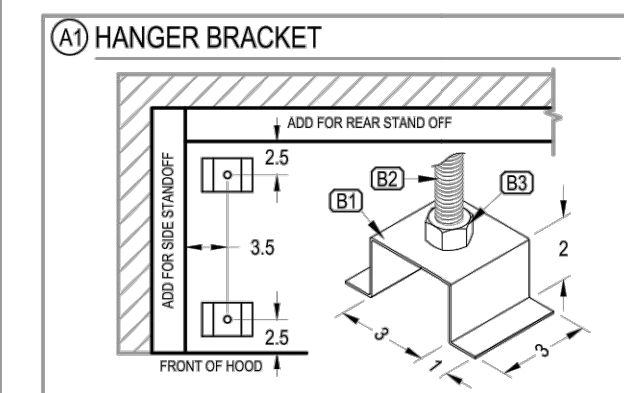
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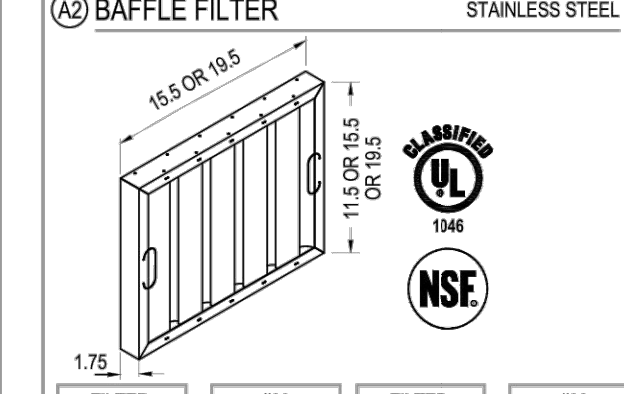
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OF 115 SHEETS



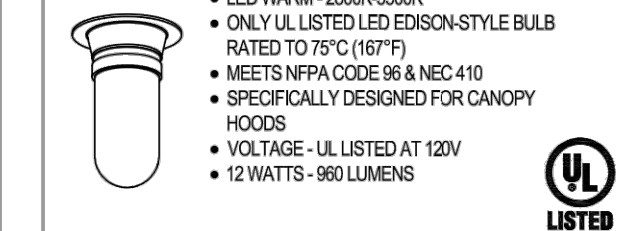


**A1) HANGER BRACKET**  
 ADD FOR REAR STAY OFF  
 FRONT OF HOOD  
 2.5  
 3.5  
 2.5

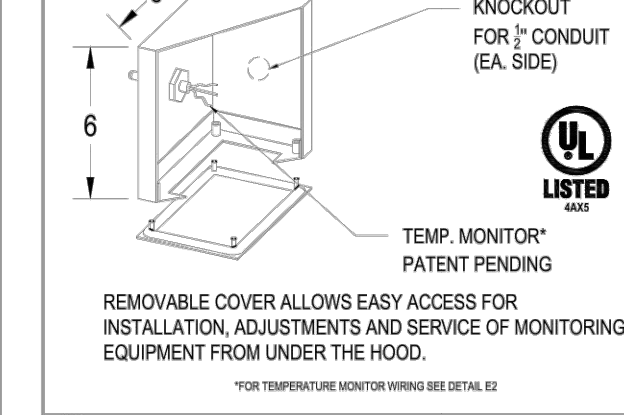


FILTER	#33	AREA	QTY	#38	AREA	QTY
1216	1.25	X	2	2.50	X	2
1220	1.25	X	2	2.50	X	2
TOTAL EFF AREA = 6.38		TOTAL EFF AREA = 7.58				

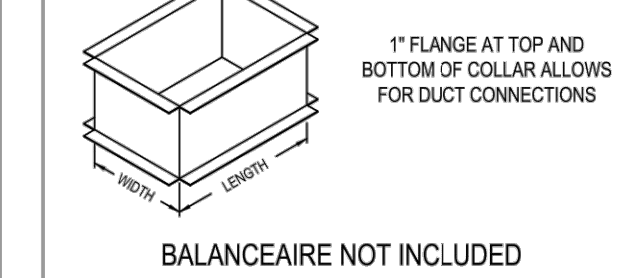
HOOD EX. CFM + TOTAL EFF AREA = FPM  
 OPERATING RANGE OF THE FILTER (200 TO 400 FPM)



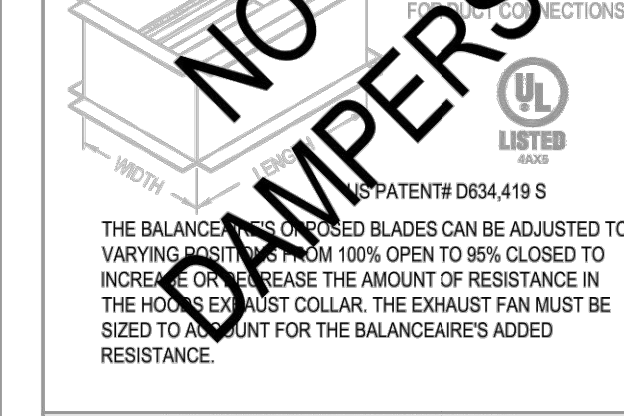
**A3) HOOD CANOPY LIGHTING FIXTURE**  
 • LED WARM - 2800K-3000K  
 • ONLY UL LISTED LED EDCISON STYLE BULB RATED TO 75°C (167°F)  
 • MEETS NFPA CODE 99 & NEC 410  
 • SPECIFICALLY DESIGNED FOR CANOPY HOODS  
 • VOLTAGE - UL LISTED AT 120V  
 • 12 WATTS - 900 LUMENS



**A4) LISTED ENCLOSURE W/ TEMP. MONITOR**  
 KNOCKOUT FOR 1" CONDUIT (EA. SIDE)  
 TEMP. MONITOR - PATENT PENDING  
 REMOVABLE COVER ALLOWS EASY ACCESS FOR INSTALLATION, ADJUSTMENTS AND SERVICE OF MONITORING EQUIPMENT FROM UNDER THE HOOD.  
 \*FOR TEMPERATURE MONITOR WIRING SEE DETAIL E2



**A5) DUCT CONNECTION DETAIL**  
 EXHAUST DUCT COLLAR DETAIL  
 1" FLANGE AT TOP AND BOTTOM OF COLLAR ALLOWS FOR DUCT CONNECTIONS  
 BALANCE/RE NOT INCLUDED  
 INTERNALLY ADJUSTABLE VARIABLE VOLUME DAMPER



**NO DAMPERS**  
 1" FLANGE AT TOP AND BOTTOM OF COLLAR ALLOWS FOR DUCT CONNECTIONS  
 THE BALANCE/RE ADJUSTED BLADES CAN BE ADJUSTED TO VARYING POSITIONS FROM 100% OPEN TO 95% CLOSED TO INCREASE OR DECREASE THE AMOUNT OF RESISTANCE IN THE HOOD EXHAUST COLLAR. THE EXHAUST FAN MUST BE SIZED TO COMPENSATE FOR THE BALANCE/RE'S ADDED RESISTANCE.

**EXHAUST COLLAR APPROVAL**  
 OPTIONS  
 SHIP COLLAR LOOSE (THE PURCHASER ACCEPTS THE SELECTION AND COST OF CUTTING/WELDING COLLAR)  
 WELD COLLAR TO HOOD (DIMENSIONS REQUIRED)

**DRAWING APPROVAL**  
 THIS DRAWING MUST BE REVIEWED, SIGNED & RETURNED TO STREIVOR AIR SYSTEMS PRIOR TO THE START OF FABRICATION.

**VERIFY THE FOLLOWING:**  
 1. ALL DIMENSIONAL INFORMATION, MOUNTING LOCATIONS & CLEARANCES  
 2. THE LOCATION & TYPE OF COOKING EQUIPMENT.

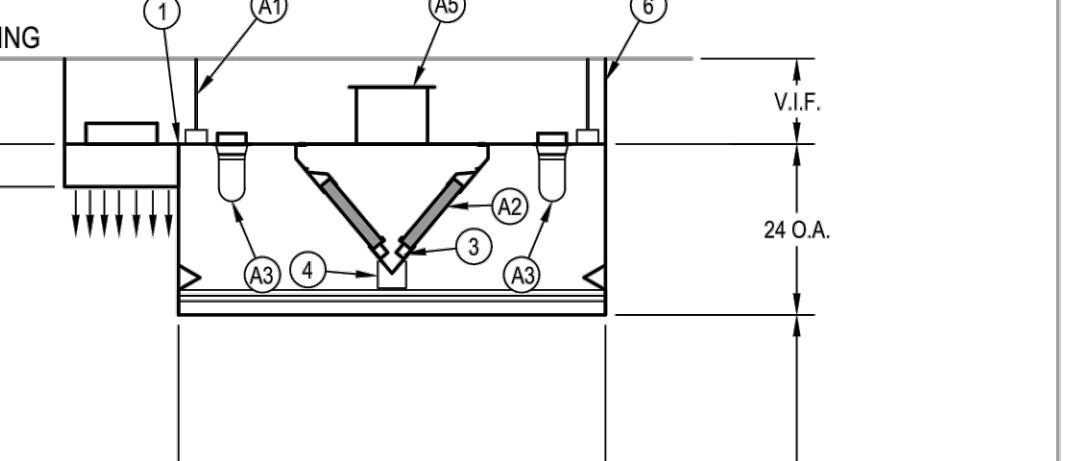
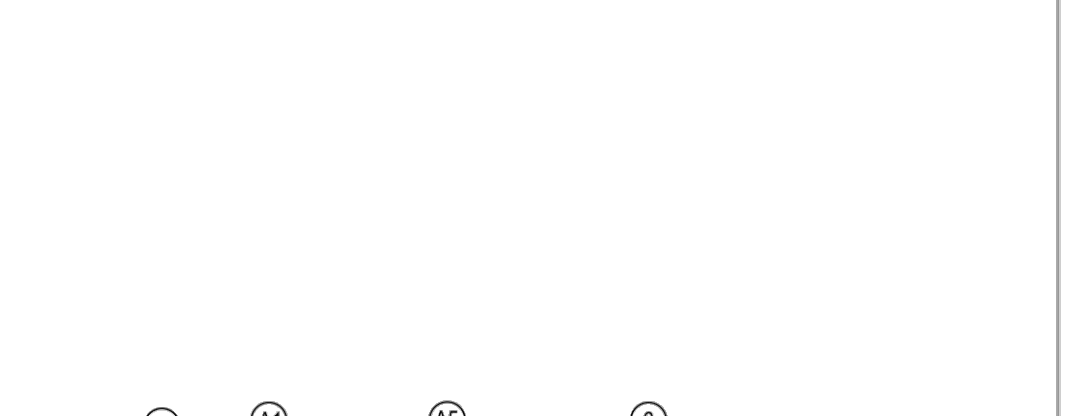
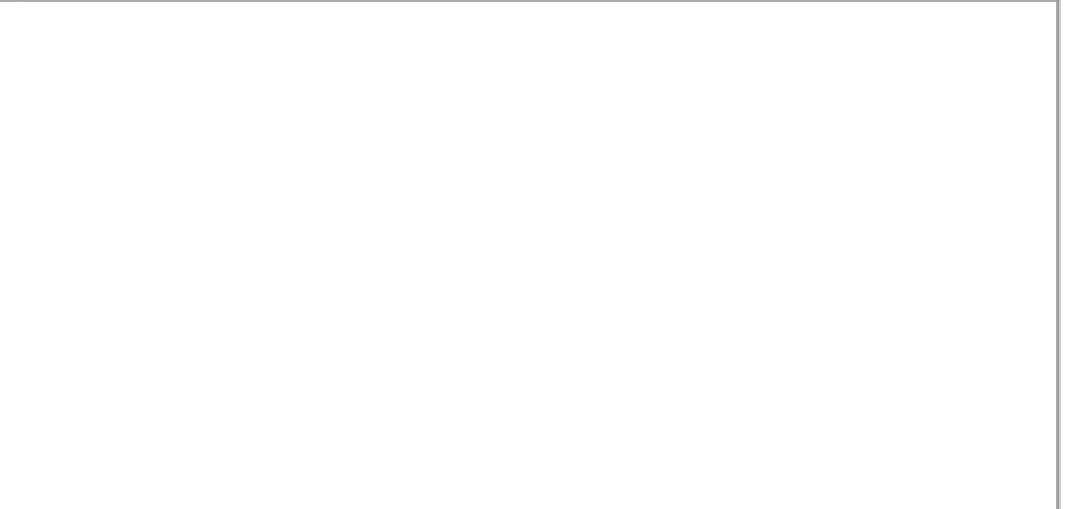
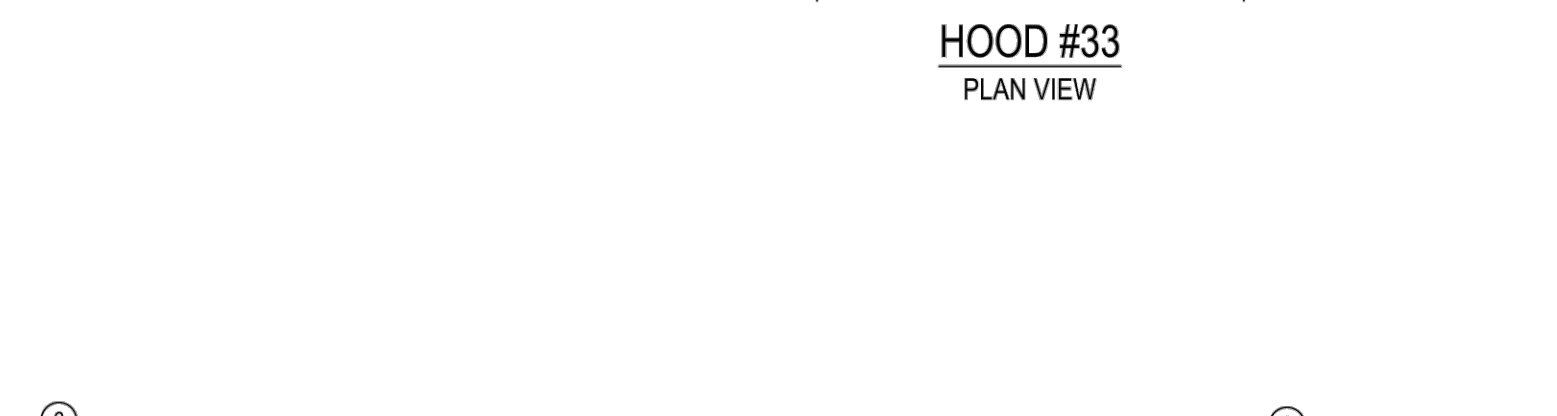
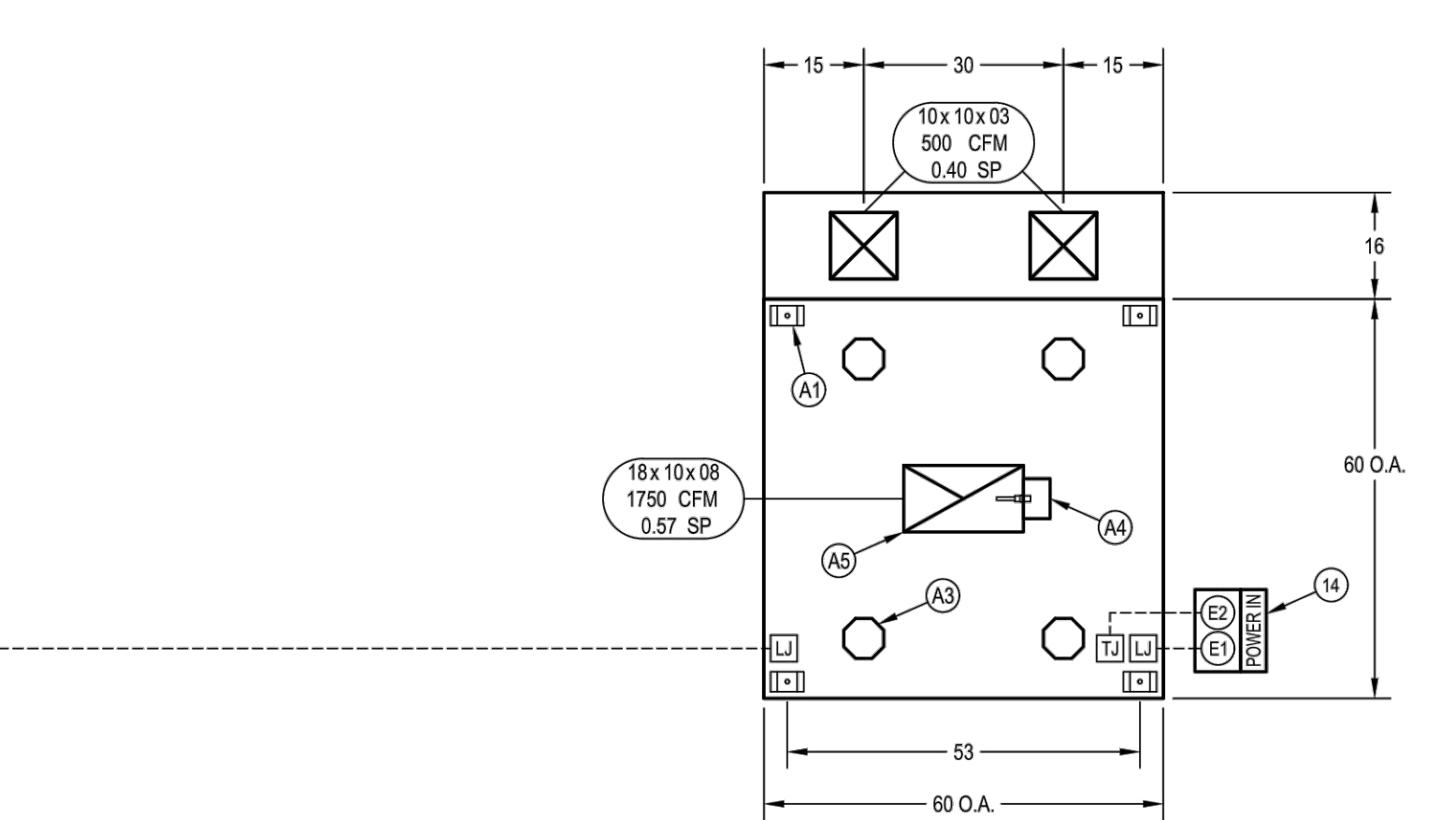
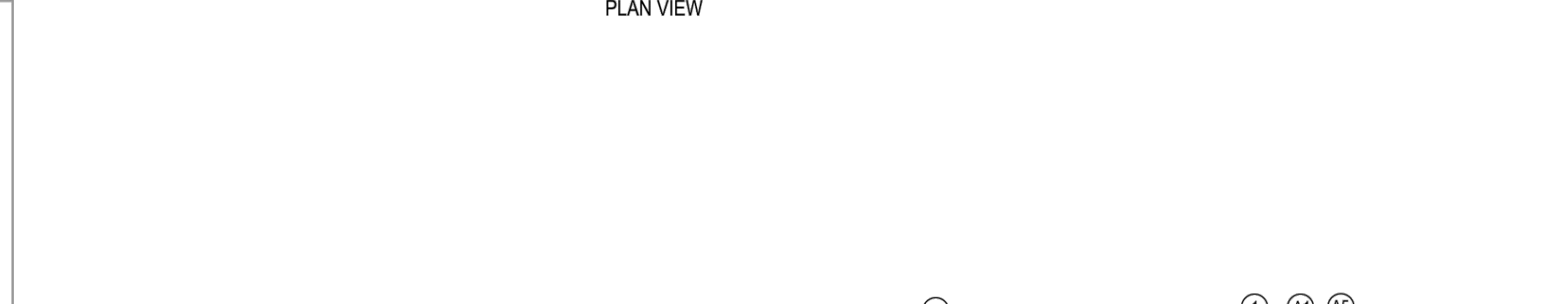
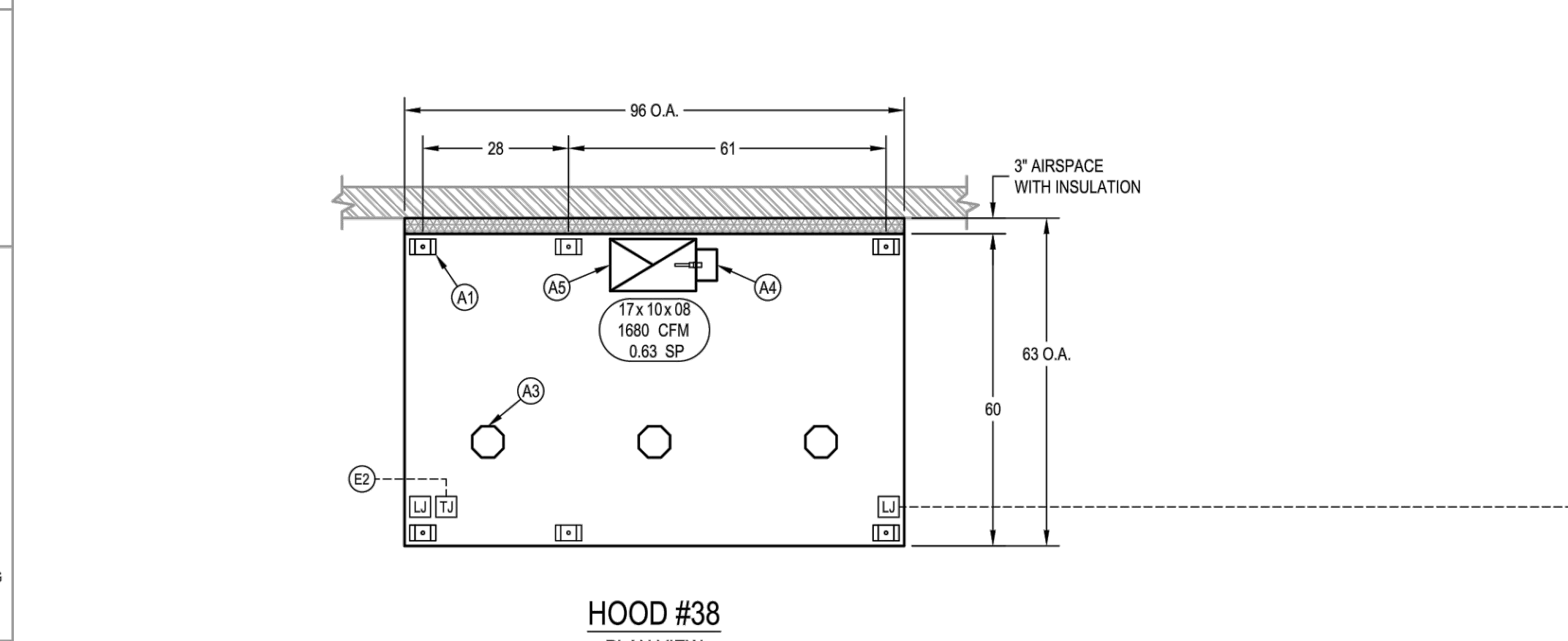
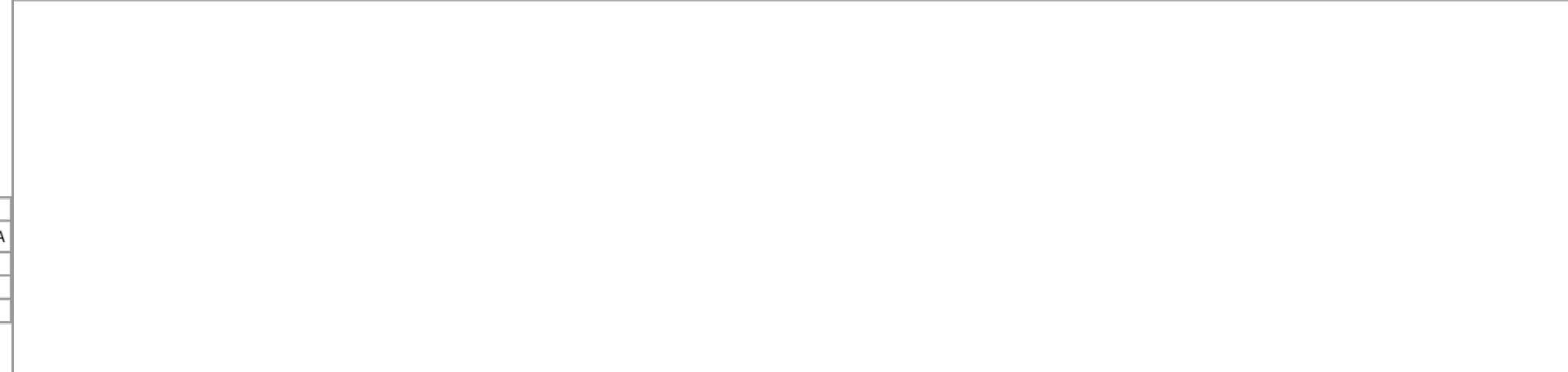
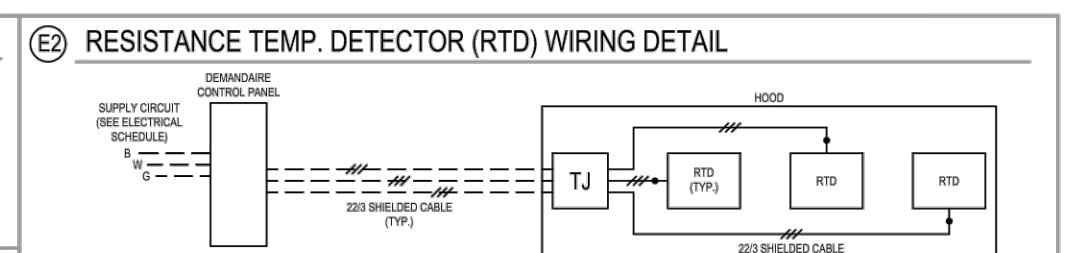
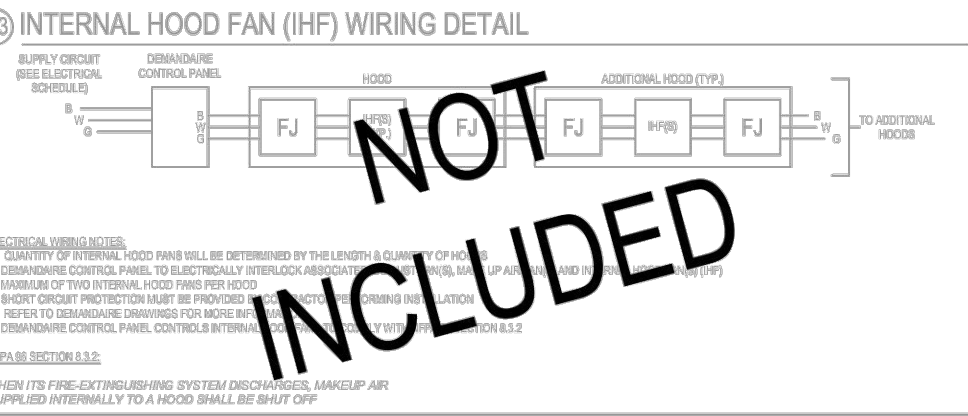
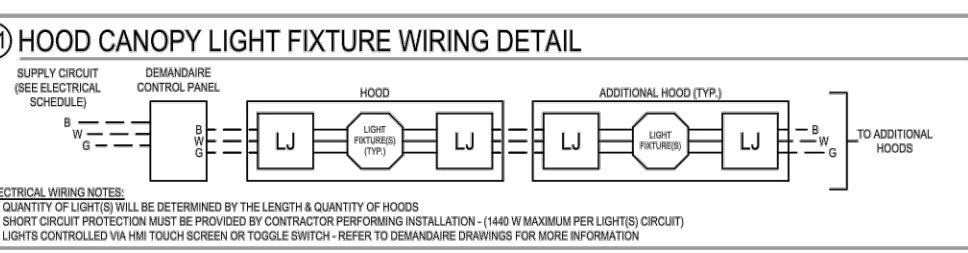
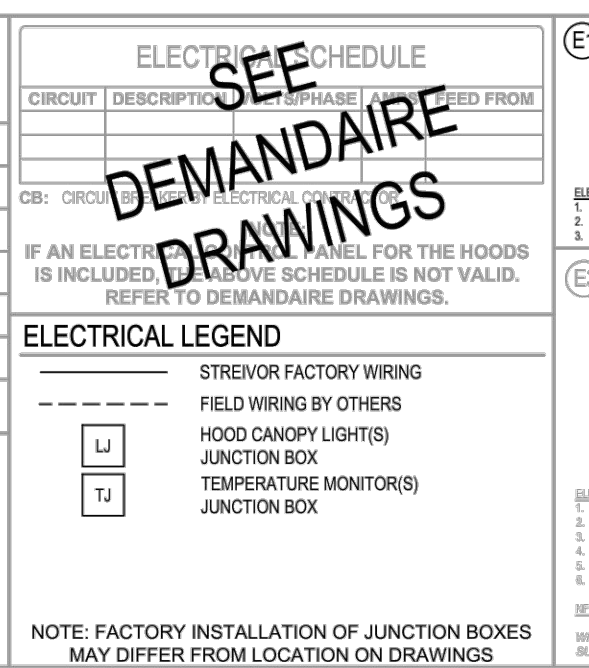
**APPROVED FOR FABRICATION**  
 APPROVED  APPROVED AS NOTED  REVISE & RESUBMIT

**NOTE TO REVIEWER:**  
 ANY CHANGES IN COOKING EQUIPMENT SUCH AS EQUIPMENT POSITION, TYPE AND/OR INCREASE IN ENERGY OUTPUT MAY AFFECT EXHAUST AIRFLOW. STREIVOR AIR SYSTEMS MUST BE NOTIFIED OF ANY CHANGES THAT OCCUR PRIOR TO FABRICATION. A RE-ENGINEERING OF THE EXHAUST AIRFLOW MAY BE REQUIRED.

HOOD SCHEDULE					EXHAUST					DIST. FROM COOKING SURFACE TO LOWER EDGE OF HOOD			MINIMUM OVERHANG OPENINGS			EQUIP. DUTY TEMPERATURE		
NO.	MODEL	L	W	H	WEIGHT	SPEC. CFM	SP	CFM/FT	MIN.	MAX.	SIDE	FRONT	MAX.	OH1	OH2	OH3		
33	ICBD 606024	60	60	24	444	1750	0.57	350	36	48	6	6	450					
38	WCB 966024	96	60	24	541	1680	0.63	210	36	48	6	6	450					

**HOOD CANOPY MATERIAL: ALL 304 SERIES STAINLESS STEEL**

**HOOD LEGEND**  
 1 ALL WELDED ENCLOSURE  
 2 16 GA. SIDES, REMAINDER OF HOOD TO BE NO LESS THAN 16 GA.  
 3 PITCHED GREASE DRIP TRAY  
 4 ENCLOSED METAL CONTAINER  
 5 CONTAINMENT PANEL - LIGHT DUTY  
 6 ENCLOSURE PANEL  
 7 12" HOOD OVERHANG IS RECOMMENDED FOR ALL HEAVY DUTY COOKING APPLIANCES  
 8 SEE ELECTRICAL SCHEDULE - CONSULT FACTORY FOR ALTERNATE INPUT POWER LOCATION(S)



**GENERAL NOTES:**  
 NOTES TO ARCHITECT AND/OR CONTRACTOR: STREIVOR, INC. (STREIVOR AIR SYSTEMS, STREIVOR STAINLESS) IS A SPECIALIST IN THE LAYOUT AND DESIGN OF KITCHEN VENTILATION SYSTEMS, AND IN NO WAY PURPORTS TO BE ARCHITECTS OR ENGINEERS.  
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 STREIVOR, INC. ACCEPTS NO RESPONSIBILITY FOR WORK DONE BY SAID ARCHITECT OR GENERAL CONTRACTOR OR THEIR REPRESENTATIVES OR SUBCONTRACTORS, AND WILL NOT STAND ANY EXPENSE FOR CHANGES MADE NECESSARY DUE TO LOCAL BUILDING CODES, ORDINANCES, STRUCTURAL CONDITIONS, OR BY ANY SUBSTITUTIONS OR CHANGES IN EQUIPMENT SHOWN ON THIS PLAN.  
 ANY ERRORS, AMBIGUITIES OR OMISSIONS IN THIS PLAN OR SPECIFICATIONS SHALL BE REPORTED TO STREIVOR, INC. FOR CORRECTIONS BEFORE ANY OF THE WORK IS STARTED. UNLESS EXPRESSLY STIPULATED, NO ADDITIONAL ALLOWANCE WILL BE MADE IN FAVOR OF THE OWNER OR CONTRACTOR, BY VIRTUE OF ERROR, AMBIGUITY OR OMISSION WHICH SHOULD HAVE BEEN DISCOVERED DURING THE PREPARATION OF BID ESTIMATES, AND DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN A TIMELY MANNER.  
**PRE - INSTALLATION**  
 OBTAIN, READ AND UNDERSTAND STREIVOR'S HOOD INSTALLATION, OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLATION, STARTUP OR BALANCING.  
**INSTALLATION**  
 ALL INSTALLATION, STARTUP AND BALANCING MUST BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH ALL APPLICABLE PREVAILING CODES AND STANDARDS.  
**STANDARD NFPA 96 HOOD CLEARANCES**  
 17" TO NON-COMBUSTIBLE MATERIALS  
 3" TO LIMITED-COMBUSTIBLE MATERIALS  
 18" TO COMBUSTIBLE MATERIAL  
**OVERHEAD CLEARANCES**  
 10' CLEARANCE IS REQUIRED ABOVE THE HOOD  
**REDUCED CLEARANCES**  
 REDUCED CLEARANCES MAY BE AVAILABLE. CONSULT FACTORY FOR REDUCED CLEARANCE OPTIONS.  
**TEST AND BALANCE**  
 THE SPECIFIED EXHAUST CFMS LISTED ON THIS DRAWING MUST BE MET DURING TEST AND BALANCE OF THE HOOD SYSTEM(S).  
 VARIANCE EXHAUST = -20% +10%  
 VARIANCE SUPPLY = -10% +0%

**STREIVOR™ AIR SYSTEMS**  
**"STRIVING FOR EXCELLENCE"**  
 2150 KITTY HAWK ROAD, LIVERMORE, CA 94551  
 PHONE: (925) 960-9090 FAX: (925) 960-9055  
 WWW.STREIVOR.COM

**PROJECT:**  
**VENTURE ACADEMY - CULINARY LAB**  
**AMD FOODSERVICE DESIGN**

NO.	DESCRIPTION	DATE	INT
1	REMOVED CABINET	09/20/23	SWB
2	REMOVED MUA PLENUM FROM 38	12/01/23	AVB
3			
4			
5			

**H-02**  
 SHEET 02 OF 02  
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 Sacramento, CA 95825  
 Phone: 916.921.2112  
 Fax: 916.921.2212



**CULINARY LAB VENTURE ACADEMY**  
**FOODSERVICE EQUIPMENT EXHAUST HOOD DETAILS**



PROJECT NO.	REVISIONS	BY
23-34-026		
DATE		
07/06/2023		
DRAWN		
SLH		
CHECKED		
SLH		
SCALE		
CADFILE		
FS5.2.DWG		
UPDATED		
SHEET NO.		

**FS5.2**  
 OF 115 SHEETS



**LISTINGS & STANDARDS**  
 THIS WET CHEMICAL EXTINGUISHING SYSTEM IS ENGINEERED TO PROVIDE FIRE PROTECTION FOR RESTAURANT HOODS, DUCTS AND COOKING APPLIANCES, IS UL 300 LISTED AND IS TO BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS:



**SECTIONS & CODES**  
 NFPA 10 2013 EDITION  
 NFPA 17A 2013 EDITION  
 NFPA 96 2011 EDITION

(8.1.5.2) MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 30 FT (9.1 M) FROM THE HAZARD TO THE EXTINGUISHER(S)  
 (8.2.1.1) EACH MANUAL ACTUATION DEVICE SHALL BE INSTALLED NO MORE THAN 48 IN. (1200 MM) AND NO LESS THAN 6 IN. (150 MM) ABOVE THE FLOOR.  
 (8.2.3.1) A HOOD EXHAUST FAN(S) SHALL CONTINUE TO OPERATE AFTER THE EXTINGUISHING SYSTEM HAS BEEN ACTIVATED UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE DESIGN OF THE EXTINGUISHING SYSTEM.  
 (8.2.3.2) THE HOOD EXHAUST FAN SHALL START UPON ACTIVATION OF THE EXTINGUISHING SYSTEM IF THE EXHAUST FAN AND ALL COOKING EQUIPMENT SERVED BY THE FAN HAVE BEEN SHUT DOWN, UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE LISTING OF THE EXTINGUISHING SYSTEM.  
 (8.2.3) WHEN THE FIRE EXTINGUISHING SYSTEM ACTIVATES, MAKEUP AIR SUPPLIED INTERNALLY TO A HOOD SHALL BE SHUT OFF.  
 (10.4.1) UPON ACTIVATION OF ANY FIRE EXTINGUISHING SYSTEM FOR A COOKING OPERATION, ALL SOURCES OF FUEL AND ELECTRICAL POWER THAT PRODUCE HEAT TO ALL EQUIPMENT REQUIRING PROTECTION BY THAT SYSTEM SHALL AUTOMATICALLY SHUT OFF.  
 (10.4.3) ANY GAS APPLIANCE NOT REQUIRING PROTECTION BUT LOCATED UNDER VENTILATING EQUIPMENT WHERE PROTECTED APPLIANCES ARE LOCATED SHALL BE AUTOMATICALLY SHUT OFF UPON ACTIVATION OF THE EXTINGUISHING SYSTEM.  
 (10.4.4) SHUTOFF DEVICE SHALL REQUIRE MANUAL RESET.  
 (10.5.1.1) AT LEAST ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED IN A MEANS OF EGRESS OR AT A LOCATION ACCEPTABLE TO THE A.H.J.  
 (10.5.1.2) THE MANUAL ACTUATION DEVICE SHALL CLEARLY IDENTIFY THE HAZARD PROTECTED.  
**IBC 909 EDITION**  
 (910.5) MANUAL ACTUATION SHALL BE ACCESSIBLE IN THE EVENT OF A FIRE, NOT LESS THAN ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED NOT LESS THAN 10 FEET (3048 MM) AND NOT MORE THAN 20 FEET (6096 MM) FROM THE PROTECTED EXHAUST SYSTEM(S). (IBC 2018: 909.12.1)

**INSTALLATION REQUIREMENTS**

1. ALL PIPE SHALL BE SCHEDULE 40 BLACK IRON, CHROME PLATED/LEAVE WHERE EXPOSED.
2. ALL CYLINDER SYSTEMS SHALL HAVE 3/8" SUPPLY LINES AND 3/16" BRANCH LINES.
3. ALL WIRE ROPE SHALL BE 1/8" STAINLESS STEEL AND RUN THROUGH 1/2" DUCT CONDUIT.
4. ALL LISTED CORNER PULLEYS REQUIRED WHENEVER THE STAINLESS STEEL CABLE DIRECTION CHANGES.
5. ALL EQUIPMENT WITH FIRE PROTECTION MUST BE SECURED TO LOCK (NOT BY STREIVOR).
6. SWIVEL ADAPTERS MAY BE ADDED TO NOZZLES FOR UP TO 30° ROTATION.

**SYSTEM #1**

PAGE NUMBERS REFERENCED FROM THE ANSUL R-102 FIRE SUPPRESSION SYSTEM TECHNICAL MANUAL

CABLE/LINE LIMITATIONS - AUTOMAN - A			
FUSIBLE LINK (Pg. 4-7)	LENGTH	PULLEYS	BRACKETS
MAXIMUM	150.00 FT	20	15
ALLOTTED	73.00 FT	11	8*
PULL STATION - A (Pg. 4-7)			
MAXIMUM	150.00 FT	20	N/A
ALLOTTED	12.00 FT	2	N/A
GAS VALVE(S) (Pg. 4-7)			
MAXIMUM	150.00 FT	20	N/A
ALLOTTED	-- FT	--	N/A
GAS CARTRIDGE(S) (Pg. 4-8)			
MODEL	LT-30-R	LT-A-101-30	--
PART NUMBER	423435	423491	--

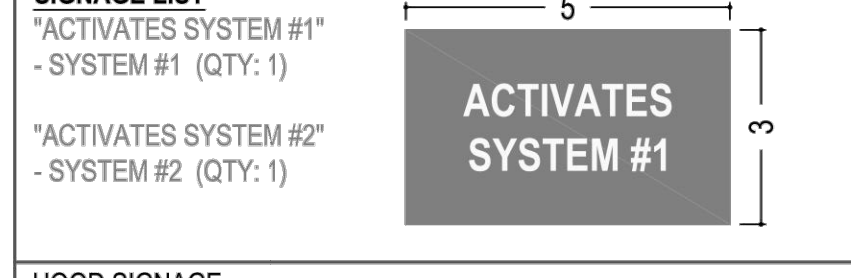
**CYLINDER #2**

ZONE COVERAGE	COVERAGE DESCRIPTION	NOZZLE	QTY.	FLOW POINTS	PAGE
<input type="checkbox"/> DUCT <input type="checkbox"/> PLENUM <input type="checkbox"/> RANGE	DUCT	2W	1	2	4-1
	PLENUM	1N	1	1	4-5
	RANGE	1F	3	3	4-17
	TOTAL FLOW POINTS				6

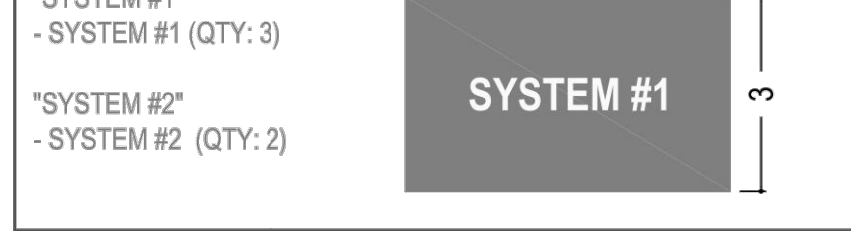
**PIPING LIMITATIONS**

CYLINDER	FLOW POINTS	SUPPLY	DUCT	PLENUM	EQUIP	FIRST TO LAST
3 GAL	MAXIMUM	11	40 FT	8 FT	4 FT	12 FT
	ALLOTTED	6	28 FT	3 FT	1 FT	3 FT

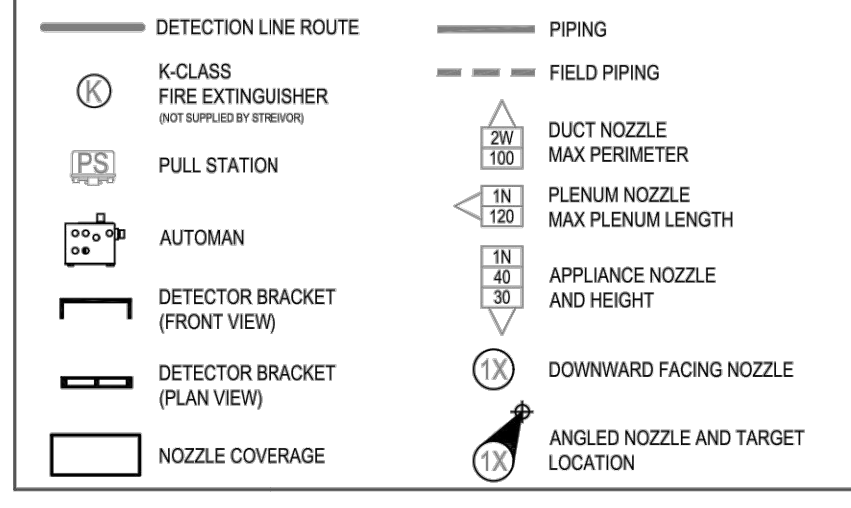
**PULL STATION SIGNAGE**



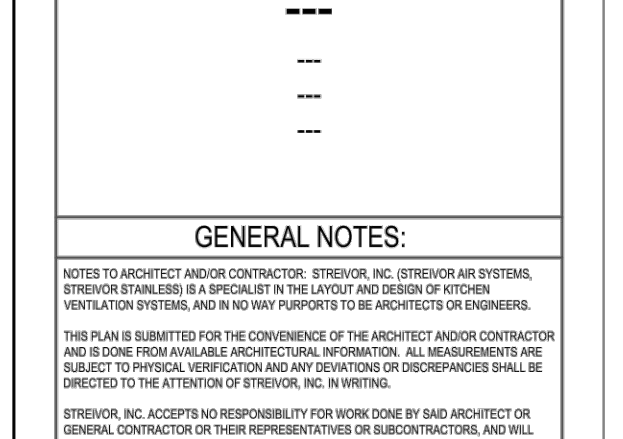
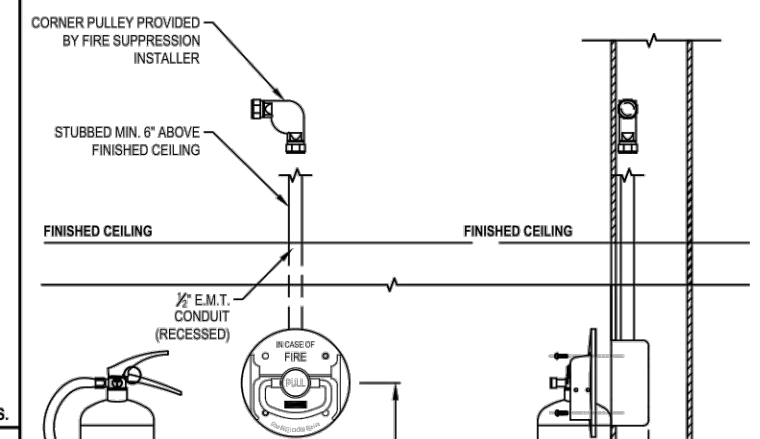
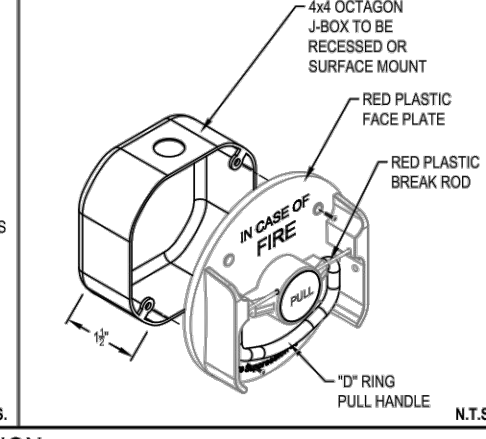
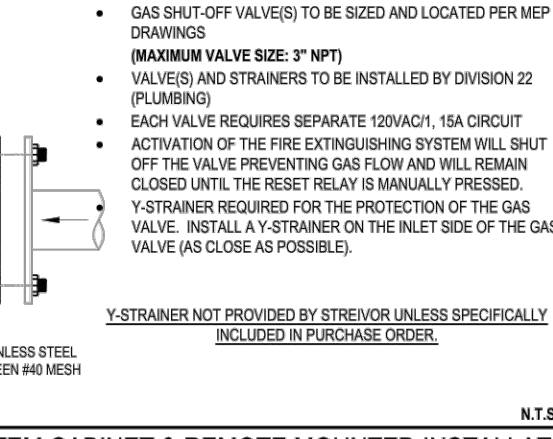
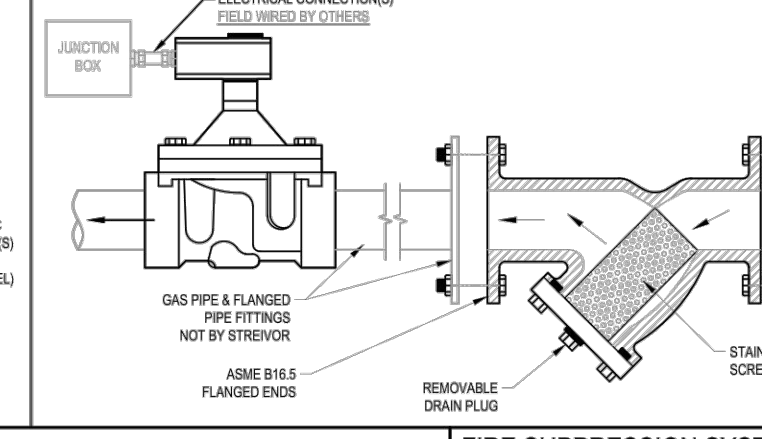
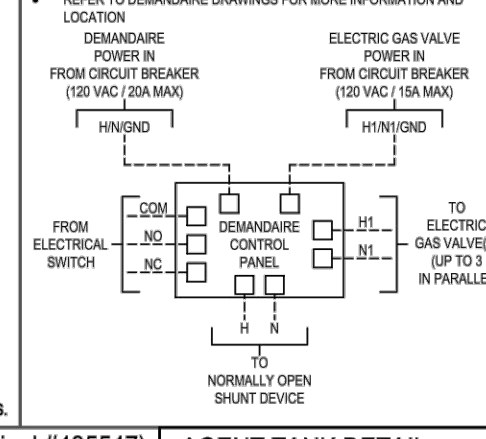
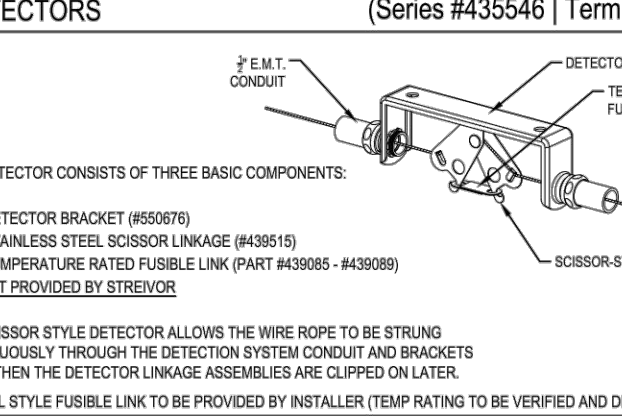
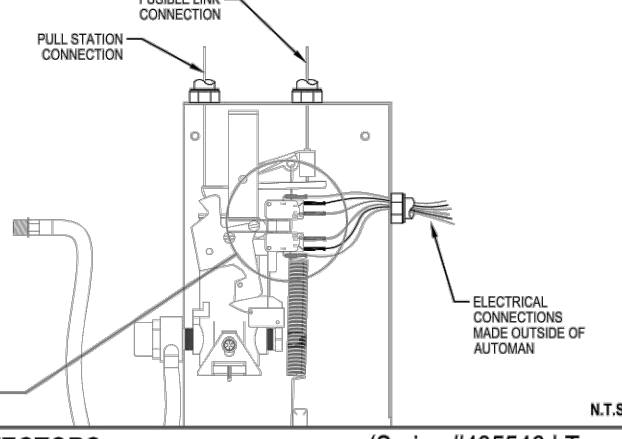
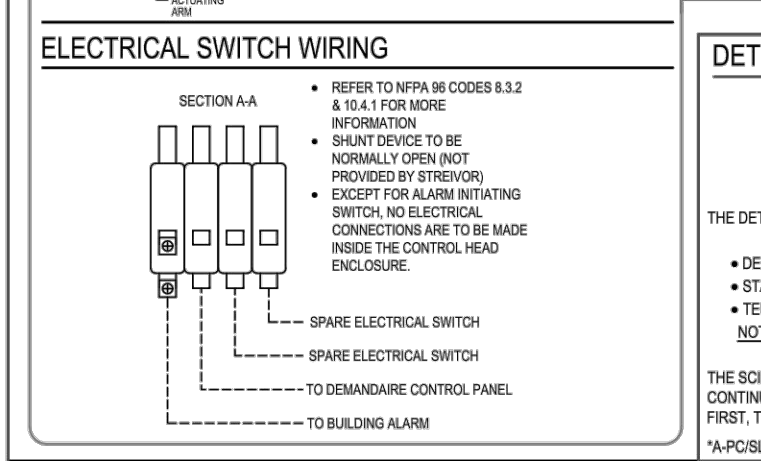
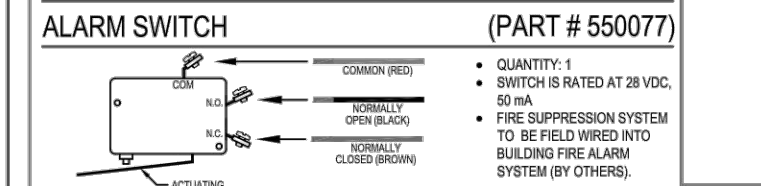
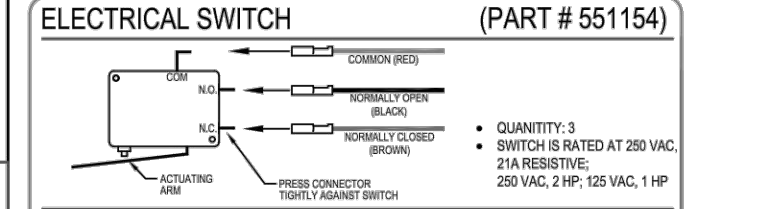
**HOOD SIGNAGE**



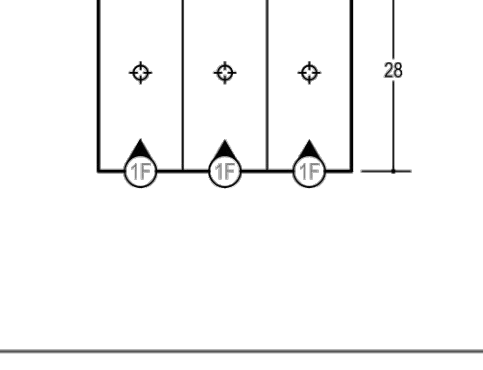
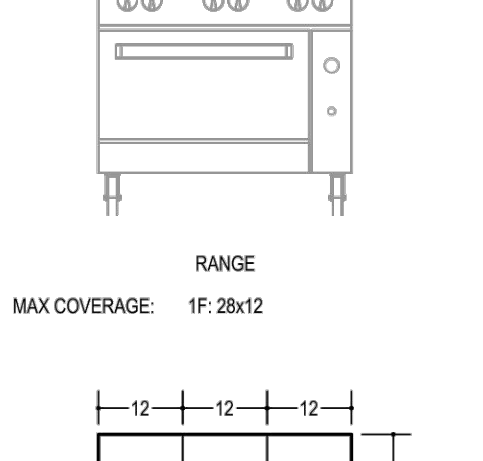
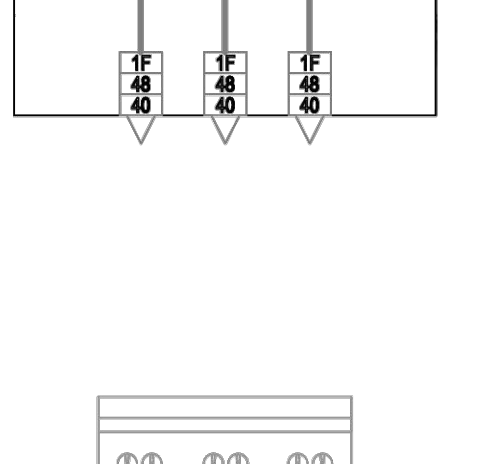
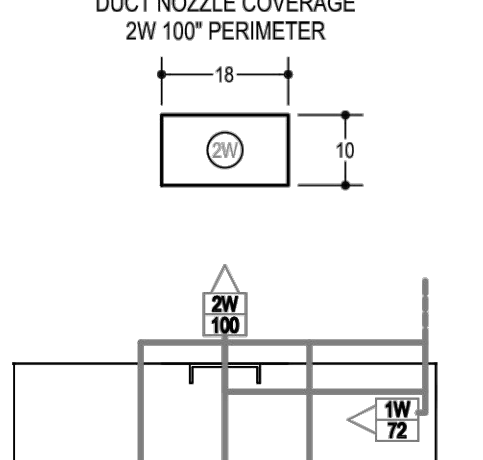
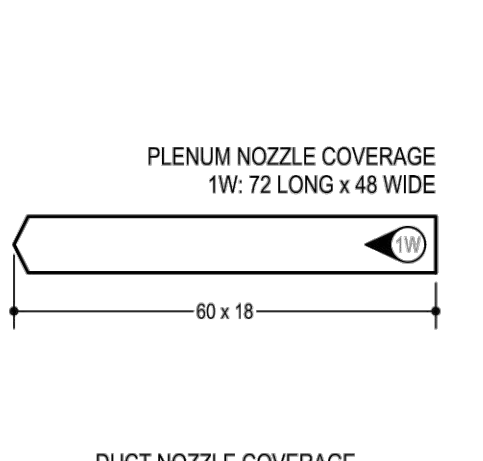
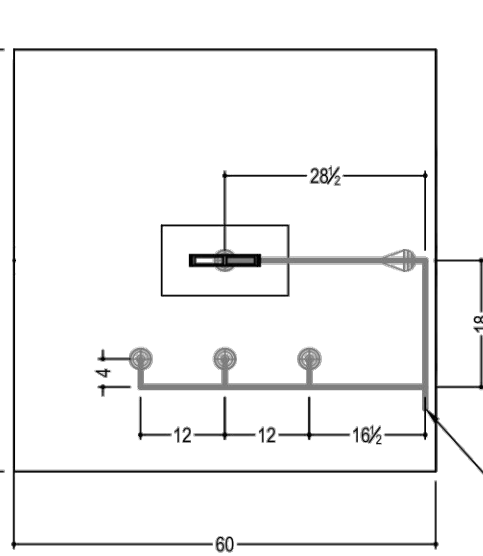
**LEGEND**



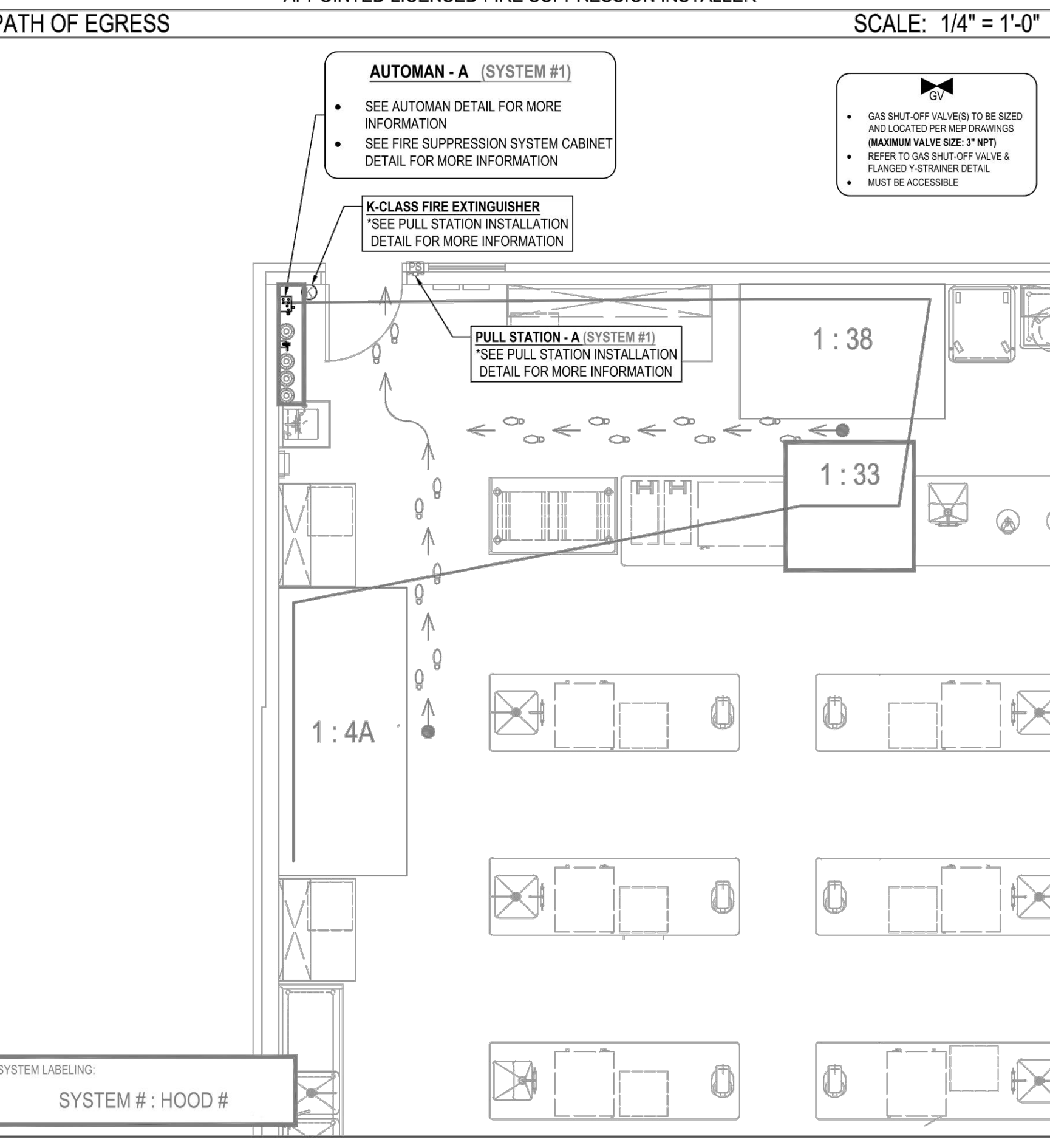
**MECHANICAL AUTOMAN (PART #79493) & ELECTRICAL WIRING**



**SYSTEM #1 : HOOD #33**



NOTE: FIELD PIPING TO BE INSTALLED BY A STREIVOR APPOINTED LICENSED FIRE SUPPRESSION INSTALLER



**GENERAL NOTES:**

NOTES TO ARCHITECT AND/OR CONTRACTOR: STREIVOR AIR SYSTEMS, FIRE SUPPRESSION SYSTEMS ARE A PRODUCT OF THE PRODUCT AND DESIGN OF THE ARCHITECT AND/OR CONTRACTOR AND IS NOT TO BE USED FOR ANY OTHER PURPOSES TO BE ARCHITECT OR ENGINEER. STREIVOR AIR SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE LISTINGS AND STANDARDS AND SHALL BE INSTALLED IN ACCORDANCE WITH THE LISTINGS AND STANDARDS. ALL MEASUREMENTS ARE TO BE TAKEN FROM THE CENTERLINE OF THE HOOD OR EXHAUST SYSTEM UNLESS OTHERWISE SPECIFIED. ALL MEASUREMENTS ARE TO BE TAKEN FROM THE CENTERLINE OF THE HOOD OR EXHAUST SYSTEM UNLESS OTHERWISE SPECIFIED. ALL MEASUREMENTS ARE TO BE TAKEN FROM THE CENTERLINE OF THE HOOD OR EXHAUST SYSTEM UNLESS OTHERWISE SPECIFIED. ALL MEASUREMENTS ARE TO BE TAKEN FROM THE CENTERLINE OF THE HOOD OR EXHAUST SYSTEM UNLESS OTHERWISE SPECIFIED.

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 WWW.STREIVOR.COM

730 Howe Avenue, Suite 450  
 Sacramento, CA 95825  
 Phone: 916.921.2112  
 Fax: 916.921.2212



**CULINARY LAB VENTURE ACADEMY**  
**FOODSERVICE EQUIPMENT EXHAUST HOOD FIRE SYSTEM DETAILS**



PROJECT NO.	REVISIONS	BY
23-34-026		
DATE		
07/06/2023		
DRAWN BY:		
SLH		
CHECKED BY:		
SLH		
SCALE		
CADFILE		
F55.4.DWG		
UPDATED		
SHEET NO.		

**FS5.4**







**GENERAL NOTES**

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**PRE-INSTALLATION**

OBTAIN, READ AND UNDERSTAND STREIVOR'S DEMANDAIRE INSTALLATION, OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLATION, OR STARTUP OR BALANCING.

**INSTALLATION**

ALL INSTALLATION AND STARTUP MUST BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH ALL APPLICABLE PREVAILING CODES AND STANDARDS

**WIRING NOTES**

- FIELD WIRING TERMINALS USE COPPER WIRE ONLY
- WIRE MUST BE RATED UP TO 600V
- WIRE TEMPERATURE RATING 60° C MIN
- LARGE TERMINAL BLOCK TIGHTENING TORQUE 1.5 - 1.8 (NM)
- SMALL TERMINAL BLOCK TIGHTENING TORQUE 0.6 - 0.8 (NM)
- SHIELDS OF SHIELDED CABLES MUST BE GROUNDED ON ONE SIDE

**COMMISSIONING NOTES**

IF COMMISSIONING IS INCLUDED, STREIVOR'S DEMANDAIRE PRE-COMMISSIONING CHECKLIST MUST BE SIGNED AND RETURNED BY THE CUSTOMER A MINIMUM OF 15 CALENDAR DAYS PRIOR TO THE REQUESTED COMMISSIONING DATE TO AVOID INCLUDING ADDITIONAL TRAVEL AND/OR EXPEDITING COSTS

**LEGEND**

- STREIVOR FACTORY WIRING
- HIGH VOLTAGE FIELD WIRING BY OTHERS
- 120V VAC FIELD WIRING BY OTHERS
- LOW VOLTAGE FIELD WIRING BY OTHERS
- 120V VAC ELECTRICAL CONDUIT (ELECTRICAL CONTRACTOR TO VERIFY QUANTITY AND SIZE)
- LOW VOLTAGE ELECTRICAL CONDUIT (ELECTRICAL CONTRACTOR TO VERIFY QUANTITY AND SIZE)

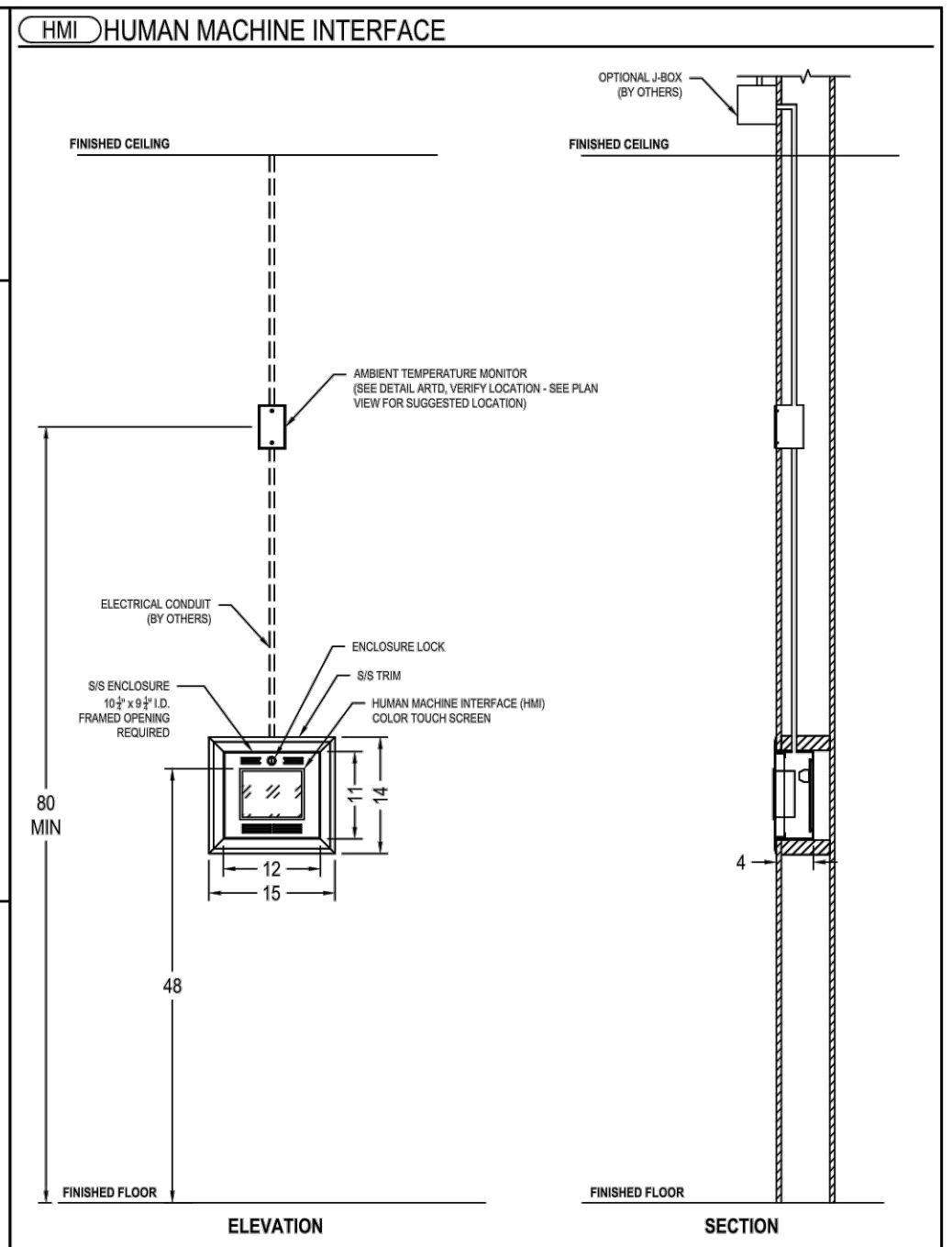
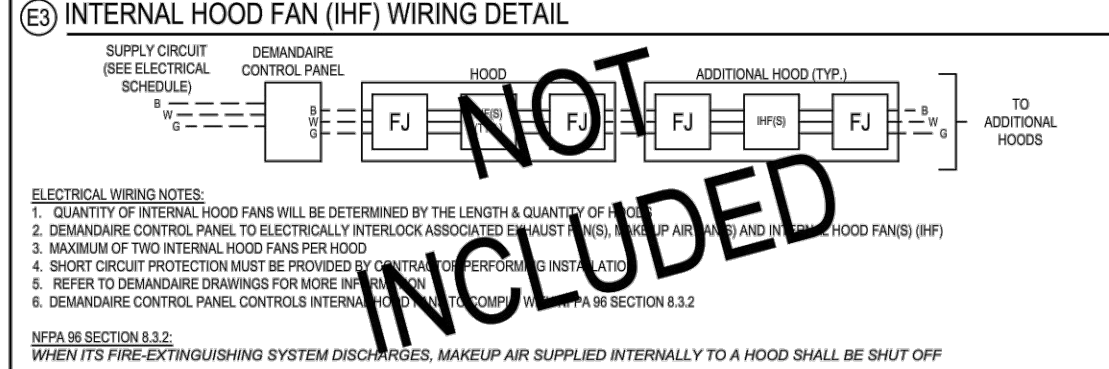
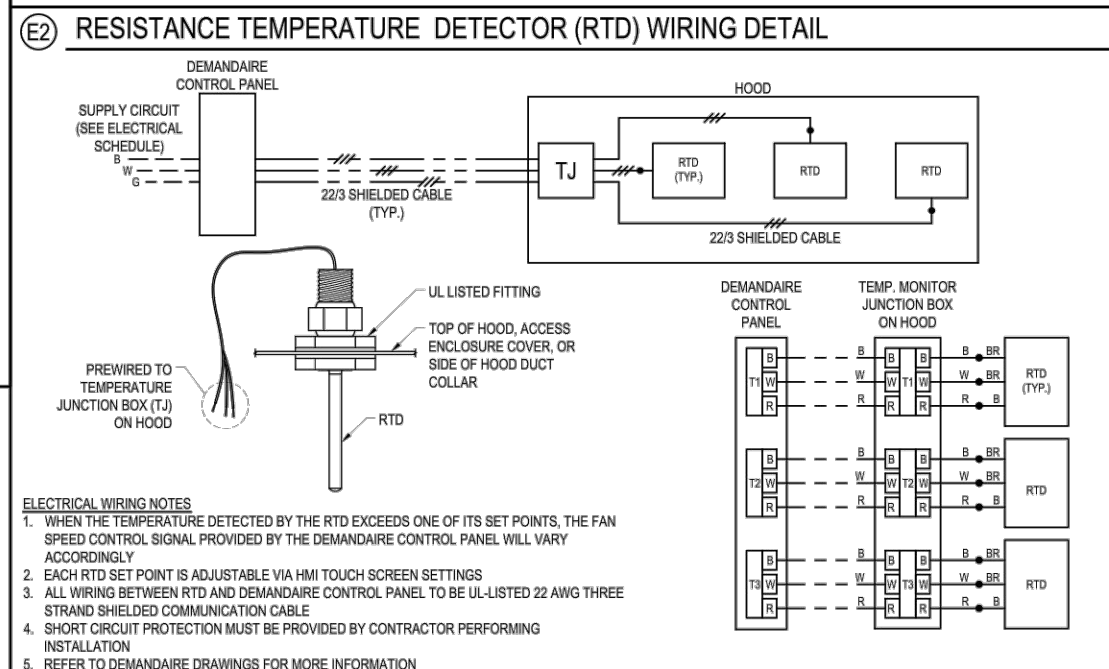
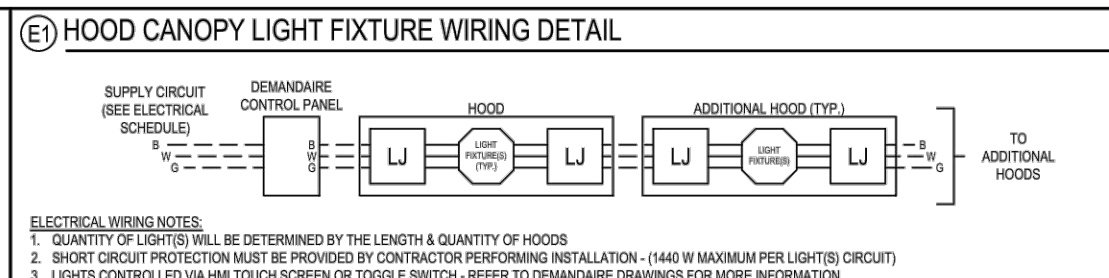
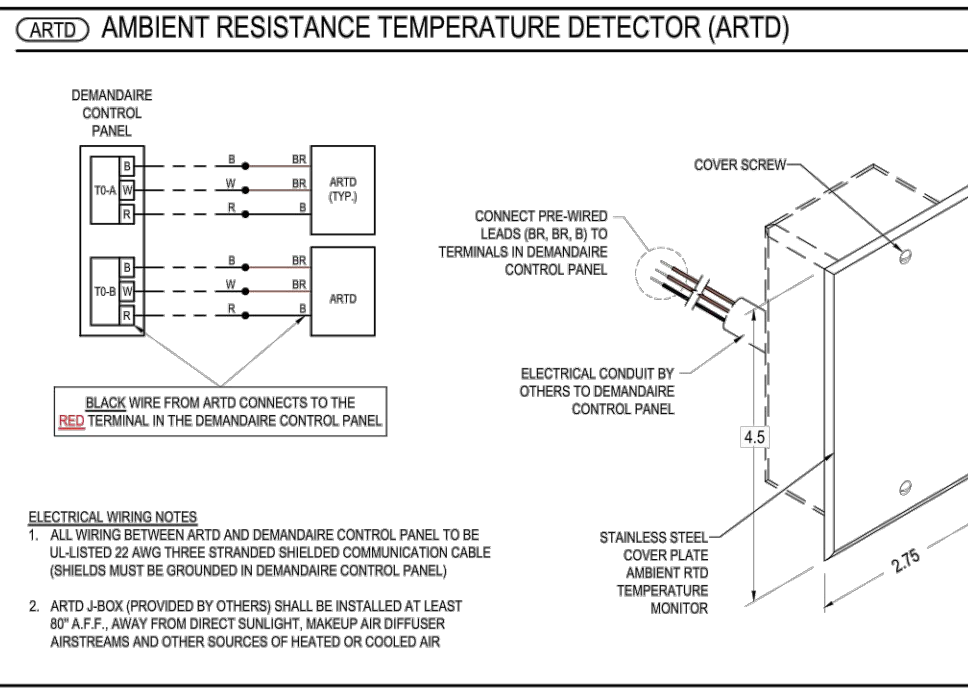
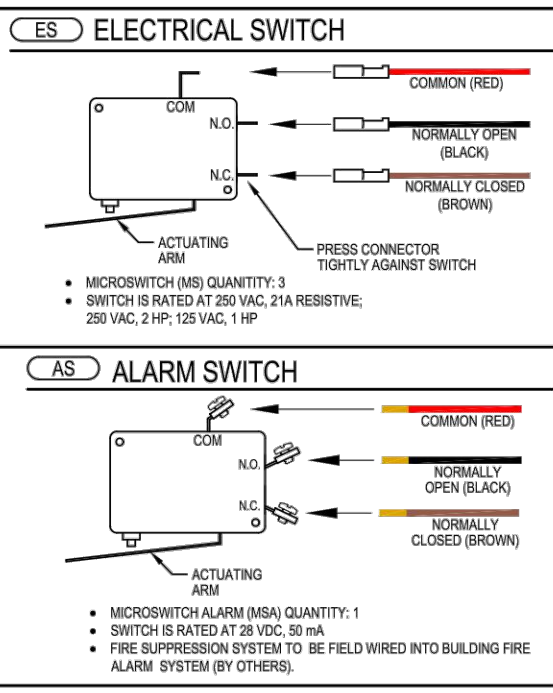
LJ HOOD CANOPY LIGHT(S) JUNCTION BOX  
 TJ TEMP. MONITOR(S) JUNCTION BOX  
 FJ INTERNAL HOOD FAN(S) JUNCTION BOX  
 TM TEMPERATURE MONITOR  
 VFD VARIABLE FREQUENCY DRIVE  
 BMS BUILDING MANAGEMENT SYSTEM

HOOD SCHEDULE						ELECTRICAL SCHEDULE							
HOOD	GROUP	SUPPLY FAN	EXHAUST FAN	FSS#	CIRCUIT DESCRIPTION	HP	VFD	AMPS	FEED	HP	VFD	AMPS	FEED
4A	1	SF-X1	EF-X1	1	CONTROL PANEL	---	120V1	20	CB	---	---	---	---
4B	2	SF-X2	EF-X2	2	GAS VALVE	---	120V1	20	CB	---	---	---	---
4C	3	SF-X3	EF-X3	2	---	---	---	---	---	---	---	---	---
33	4	SF-X4	EF-X4	1	---	---	---	---	---	---	---	---	---
38	4	SF-X4	EF-X4	1	---	---	---	---	---	---	---	---	---

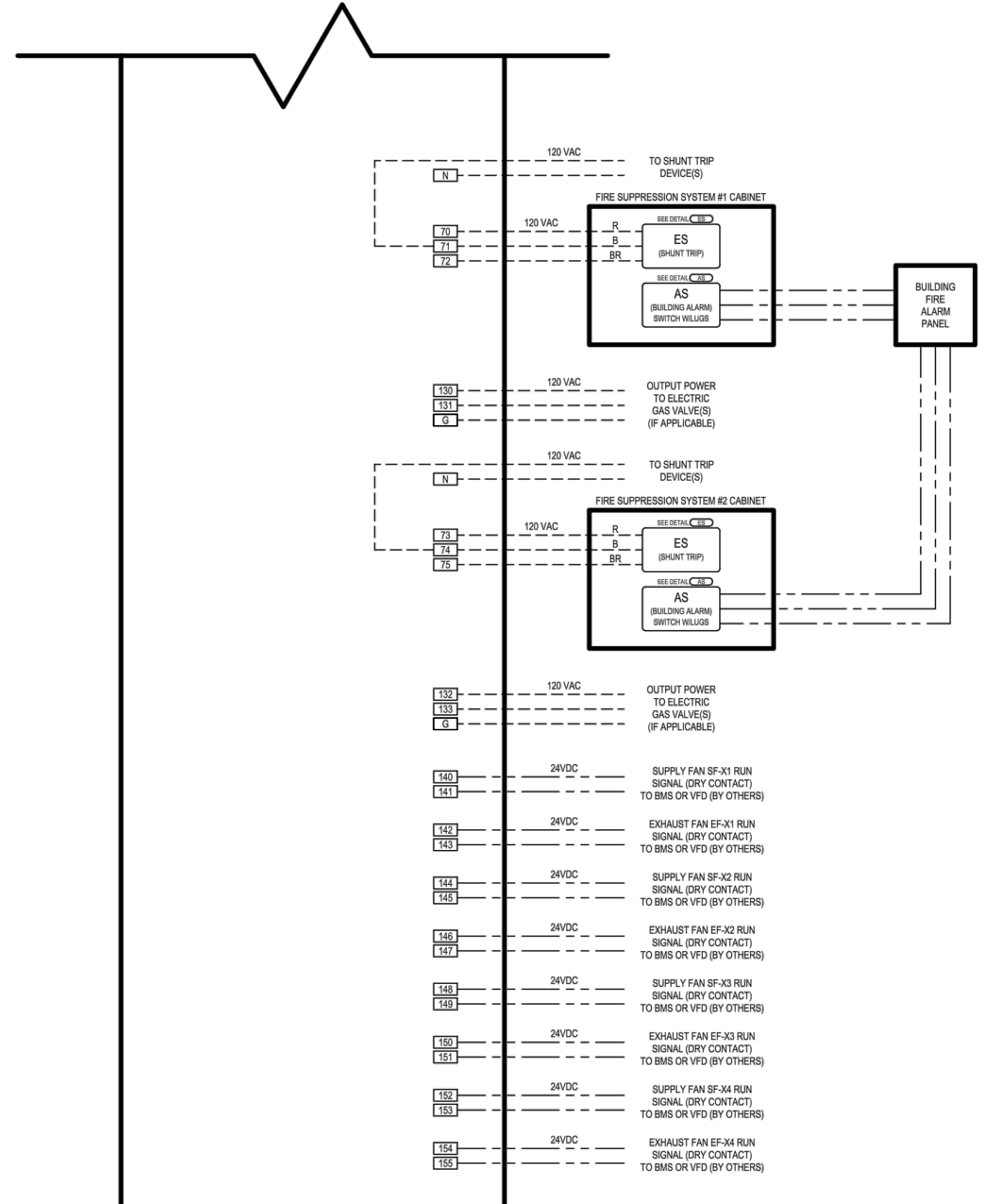
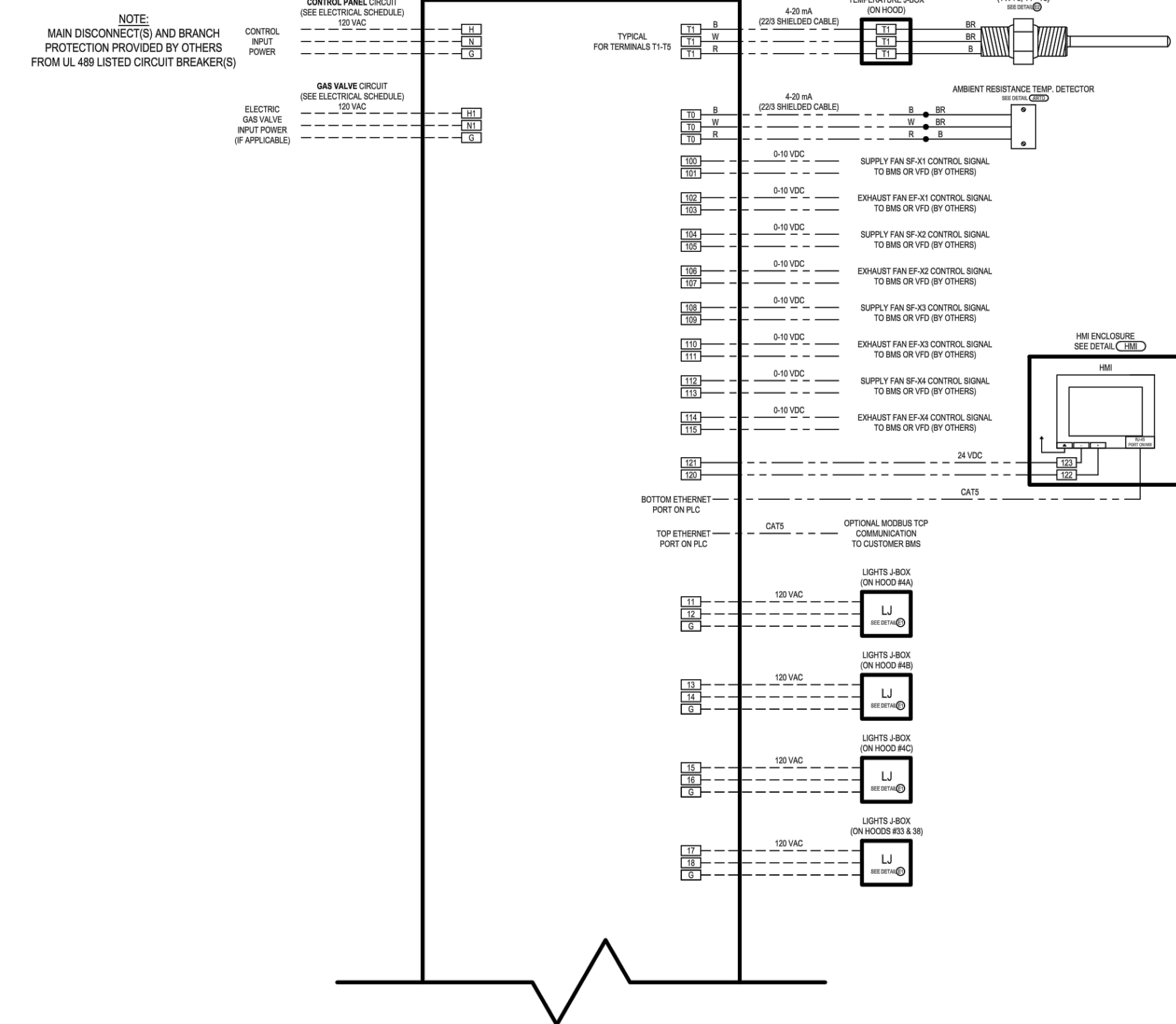
REFER TO HOOD DRAWINGS FOR HOOD DETAILS      CB: CIRCUIT BREAKER BY ELECTRICAL CONTRACTOR

ELECTRICAL ROUGH-IN SCHEDULE			
ITEM	DETAIL	ROUGH-IN REQUIREMENTS	ELECTRICAL CONDUIT
DEMANDAIRE CONTROL PANEL	DCP	MOUNTED IN HOOD UTILITY CABINET	120 VAC, 24 VDC, 4-20 mA
HMI ENCLOSURE	HMI	12 1/4" X 11 1/4" I.D. FRAMED OPENING	24 VDC, 4-20 mA
AMBIENT TEMPERATURE MONITOR	ARTD	2" X 4" J-BOX	4-20 mA

ELECTRICAL CONTRACTOR TO VERIFY ROUGH-IN LOCATION AND ELECTRICAL REQUIREMENTS



**DEMANDAIRE GOLD CONTROL PANEL WIRING DIAGRAM #4 DA**



NOTE:  
DEMANDAIRE CONTROL PANEL ENCLOSURES REQUIRE 36 INCHES MINIMUM OF CLEAR SPACE IN FRONT OF THE DOOR

**DRAWING APPROVAL**

THIS DRAWING MUST BE REVIEWED, SIGNED & RETURNED TO STREIVOR AIR SYSTEMS PRIOR TO THE START OF FABRICATION.

**VERIFY THE FOLLOWING:**

- ALL DIMENSIONAL INFORMATION, MOUNTING LOCATIONS & CLEARANCES.
- FAN HORSEPOWER, VOLTAGE & PHASE (IF VFDs OR MOTOR STARTERS ARE PROVIDED BY STREIVOR)

**APPROVED FOR FABRICATION**

APPROVED  
 APPROVED AS NOTED  
 REVISE & RESUBMIT

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

**NOTE TO REVIEWER:**  
ANY CHANGES IN COOKING EQUIPMENT SUCH AS EQUIPMENT POSITION, TYPE AND/OR INCREASE IN ENERGY OUTPUT MAY AFFECT EXHAUST AIRFLOW. STREIVOR AIR SYSTEMS MUST BE NOTIFIED OF ANY CHANGES THAT OCCUR PRIOR TO FABRICATION, AS RE-ENGINEERING OF THE EXHAUST AIRFLOW MAY BE REQUIRED.

**STREIVOR™ AIR SYSTEMS**

**"STRIVING FOR EXCELLENCE"**

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 WWW.STREIVOR.COM

PROJECT:  
**VENTURE ACADEMY - CULINARY LAB**

AMD FOODSERVICE DESIGN

SHORT CIRCUIT CURRENT: 5KA RMS SYMMETRICAL, 120 V MAXIMUM

SERIAL NO.	DA---
C.P. ENCLOSURE NO.	---
HMI ENCLOSURE NO.	---
ITEM #:	4 DA
MODEL:	GOLD
DATE:	9/5/2023
DRAWN BY:	JWS
CHECKED BY:	HLF
CONSULTANT:	AMD FOODSERVICE DESIGN

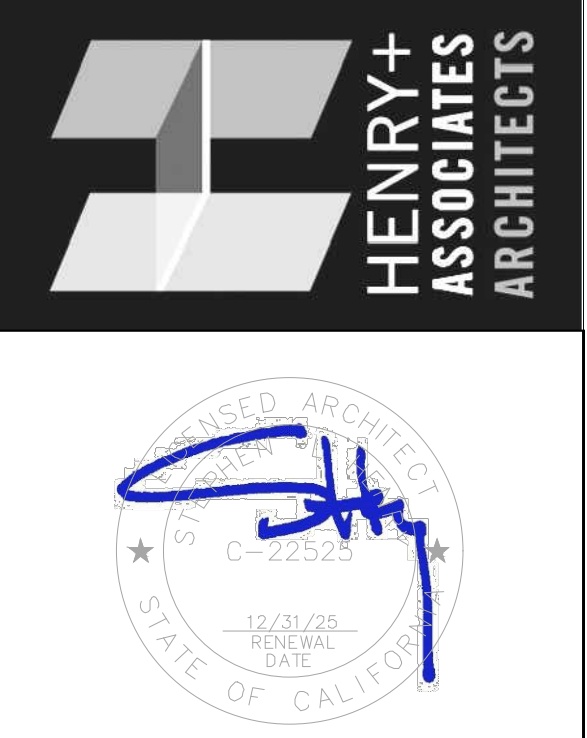
SCALE: N.T.S.

SCALE	DESCRIPTION	DATE	INT
1/4"	RELOCATED DA SYSTEM	09/20/23	AVB
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DRAWING:  
**DA-01**

SHEET 01 OF 02  
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 Sacramento, CA 95825  
 Phone: 916.921.2112  
 Fax: 916.921.2212



CULINARY LAB VENTURE ACADEMY

FOODSERVICE EQUIPMENT EXHAUST HOOD DEMAND AIR DETAILS



PROJECT NO.	REVISIONS	BY
23-34-026		

DATE	REVISIONS	BY
07/06/2023		

CADFILE	SCALE
FS5.8.DWG	

SHEET NO.

**FS5.8**

OF 115 SHEETS

**GENERAL NOTES**

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**INSTALLATION**  
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**WIRING NOTES**  
1. FIELD WIRING TERMINALS USE COPPER WIRE ONLY  
2. WIRE MUST BE RATED UP TO 800V  
3. WIRE TEMPERATURE RATING 60° C MIN  
4. LARGE TERMINAL BLOCK TIGHTENING TORQUE 1.5 - 1.8 (NM)  
5. SMALL TERMINAL BLOCK TIGHTENING TORQUE 0.6 - 0.8 (NM)  
6. SHIELDS OF SHIELDED CABLES MUST BE GROUNDED ON ONE SIDE

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**LEGEND**

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- HIGH VOLTAGE FIELD WIRING BY OTHERS
- 120V VAC FIELD WIRING BY OTHERS
- LOW VOLTAGE FIELD WIRING BY OTHERS
- 120V VAC ELECTRICAL CONDUIT (ELECTRICAL CONTRACTOR TO VERIFY QUANTITY AND SIZE)
- LOW VOLTAGE ELECTRICAL CONDUIT (ELECTRICAL CONTRACTOR TO VERIFY QUANTITY AND SIZE)

**SYSTEM LABELING:**  
GROUP # - HOOD #  
(FROM HOOD SCHEDULE)

- LJ HOOD CANOPY LIGHT(S) JUNCTION BOX
- TJ TEMP. MONITOR(S) JUNCTION BOX
- FJ INTERNAL HOOD FAN(S) JUNCTION BOX
- TM TEMPERATURE MONITOR
- VFD VARIABLE FREQUENCY DRIVE
- BMS BUILDING MANAGEMENT SYSTEM

**HOOD SCHEDULE**

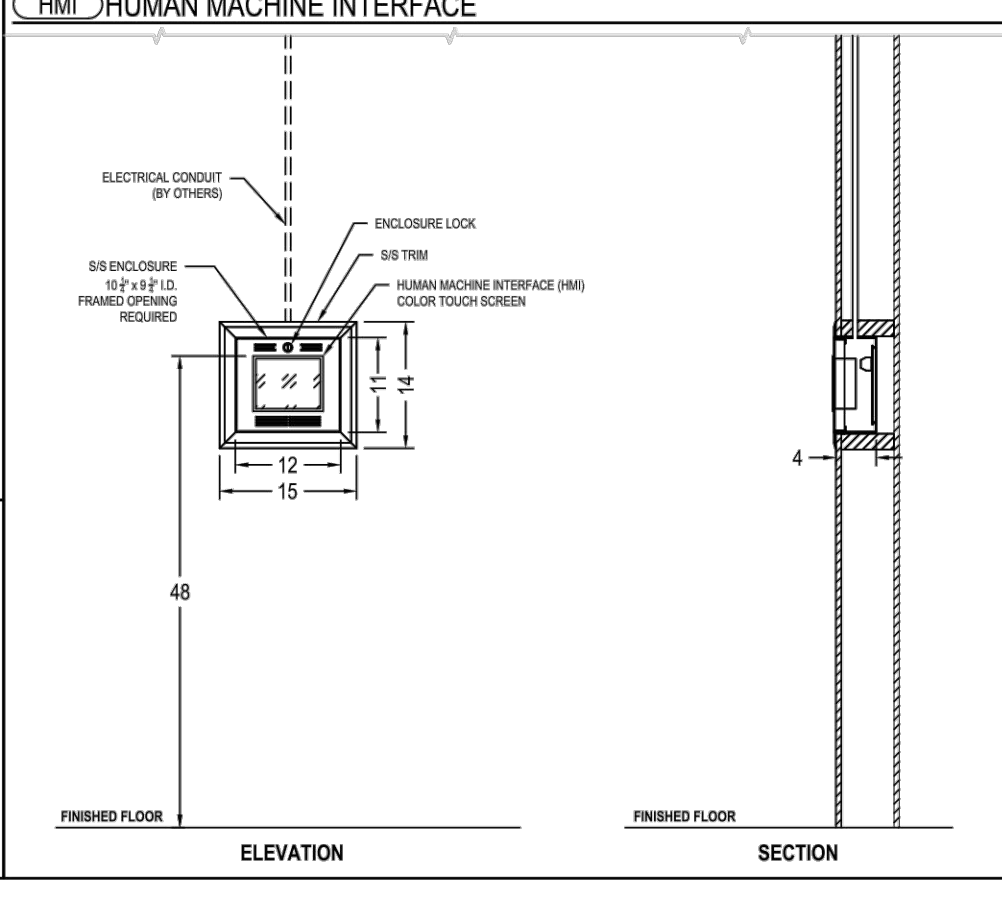
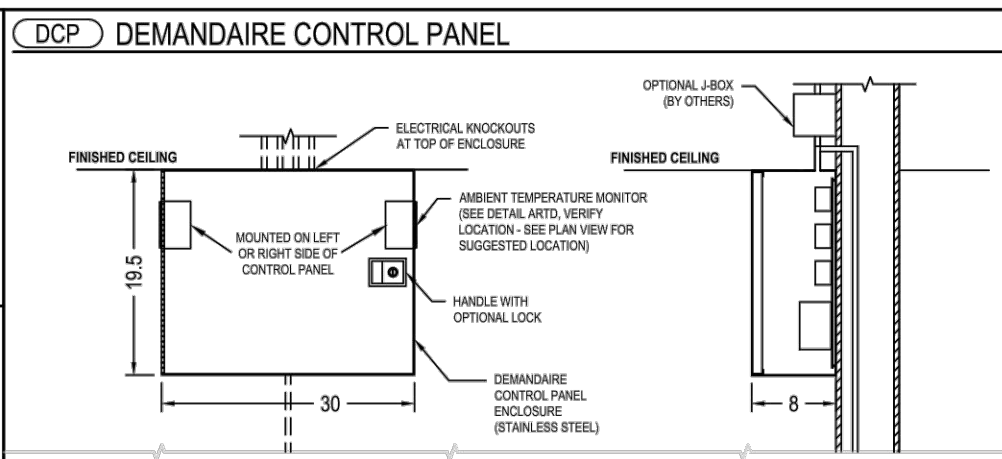
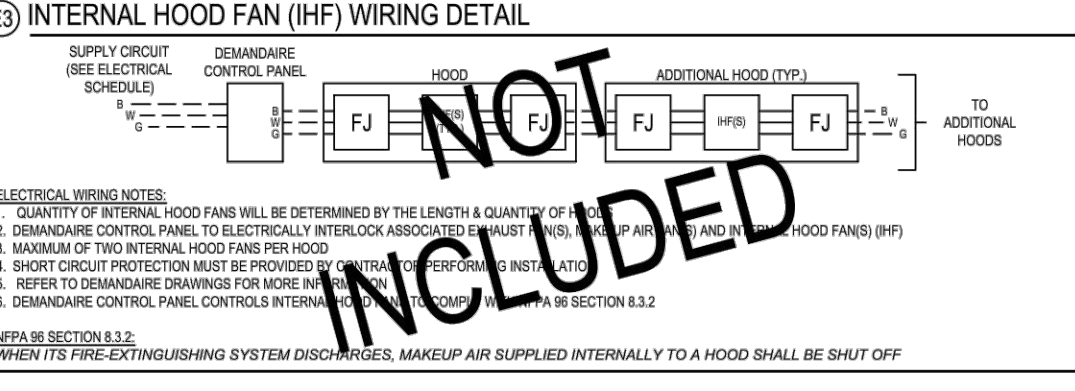
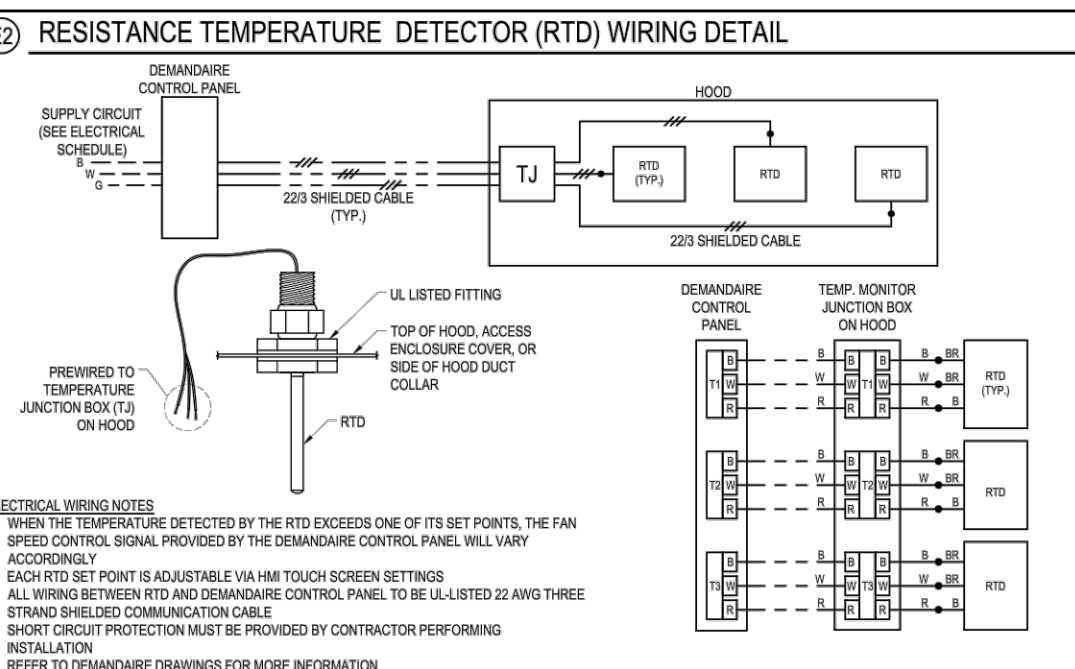
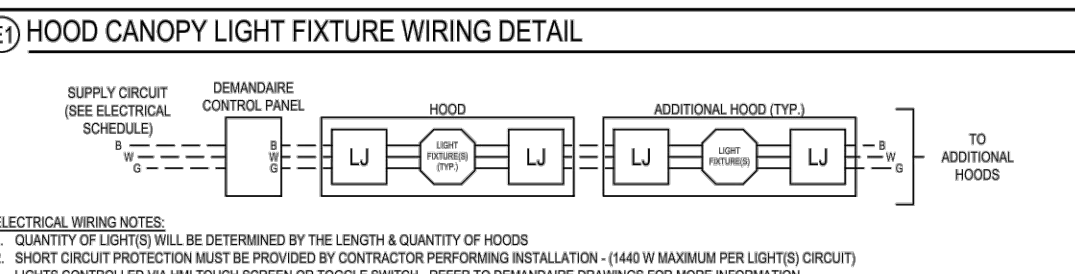
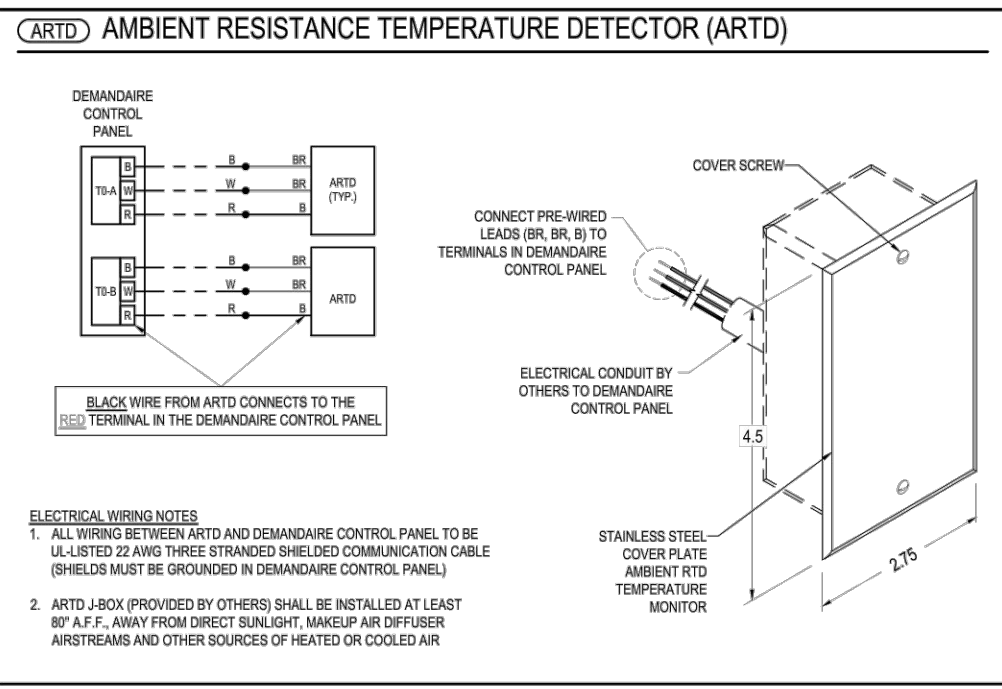
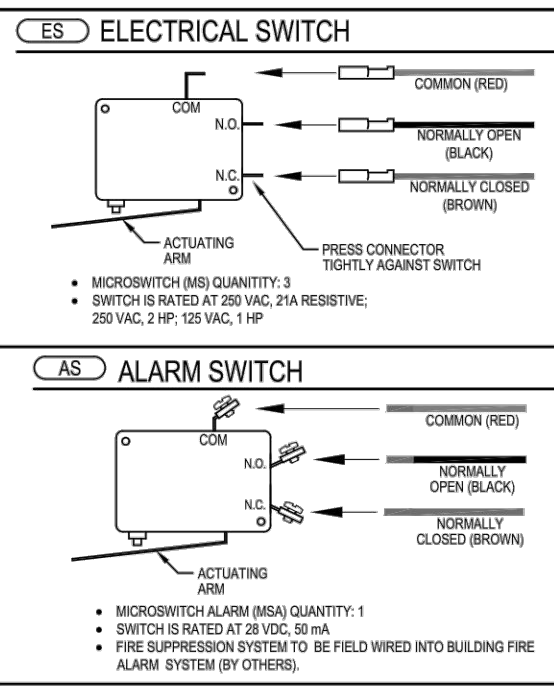
HOOD	GROUP	SUPPLY FAN	EXHAUST FAN	FSS#	CIRCUIT DESCRIPTION	HP	VIB	AMPS	FEED
4A	1	SF-X1	EF-X1	1	CONTROL PANEL	---	120V1	20	CB
4B	2	SF-X2	EF-X2	2	GAS VALVE	---	---	---	---
4C	3	SF-X3	EF-X3	2	---	---	---	---	---
33	4	SF-X4	EF-X4	1	---	---	---	---	---
3B	4	SF-X4	EF-X4	1	---	---	---	---	---

REFER TO HOOD DRAWINGS FOR HOOD DETAILS  
CB: CIRCUIT BREAKER BY ELECTRICAL CONTRACTOR

**ELECTRICAL ROUGH-IN SCHEDULE**

ITEM	DETAIL	ROUGH-IN REQUIREMENTS	ELECTRICAL CONDUIT
DEMANDAIRE CONTROL PANEL	DCP	SURFACE MOUNTED	120 VAC, 24 VDC, 4-20 mA
HMI ENCLOSURE	HMI	12 1/4" X 11 1/4" I.D. FRAMED OPENING	24 VDC, 4-20 mA
AMBIENT TEMPERATURE MONITOR	ARTD	2" X 4" J-BOX	4-20 mA

ELECTRICAL CONTRACTOR TO VERIFY ROUGH-IN LOCATION AND ELECTRICAL REQUIREMENTS



**VARIABLE FREQUENCY DRIVE(S)**  
DC/AC FAN MOTORS TO BE ECM OR RATED FOR USE WITH VFD. VFD(S) TO BE SIZED/LOCATED PER MEP DRAWINGS. VFD(S) NOT PROVIDED BY STREIVOR. SEE DEMANDAIRE WIRING DIAGRAM FOR TERMINAL LABELS AND QUANTITY OF CONTROL SIGNALS/CONTACTS.

**ELECTRIC GAS SHUT-OFF VALVE(S)**  
GAS SHUT-OFF VALVE(S) TO BE SIZED AND LOCATED PER MEP DRAWINGS. SEE DEMANDAIRE WIRING DIAGRAM FOR TERMINAL LABELS AND QUANTITY OF GAS VALVE OUTPUT POWER CIRCUITS (UP TO THREE GAS VALVES CAN BE WIRED IN PARALLEL ON ONE OUTPUT POWER CIRCUIT). GAS VALVE CIRCUIT: 120V1, 20 AMPS (SEE ELECTRICAL SCHEDULE)

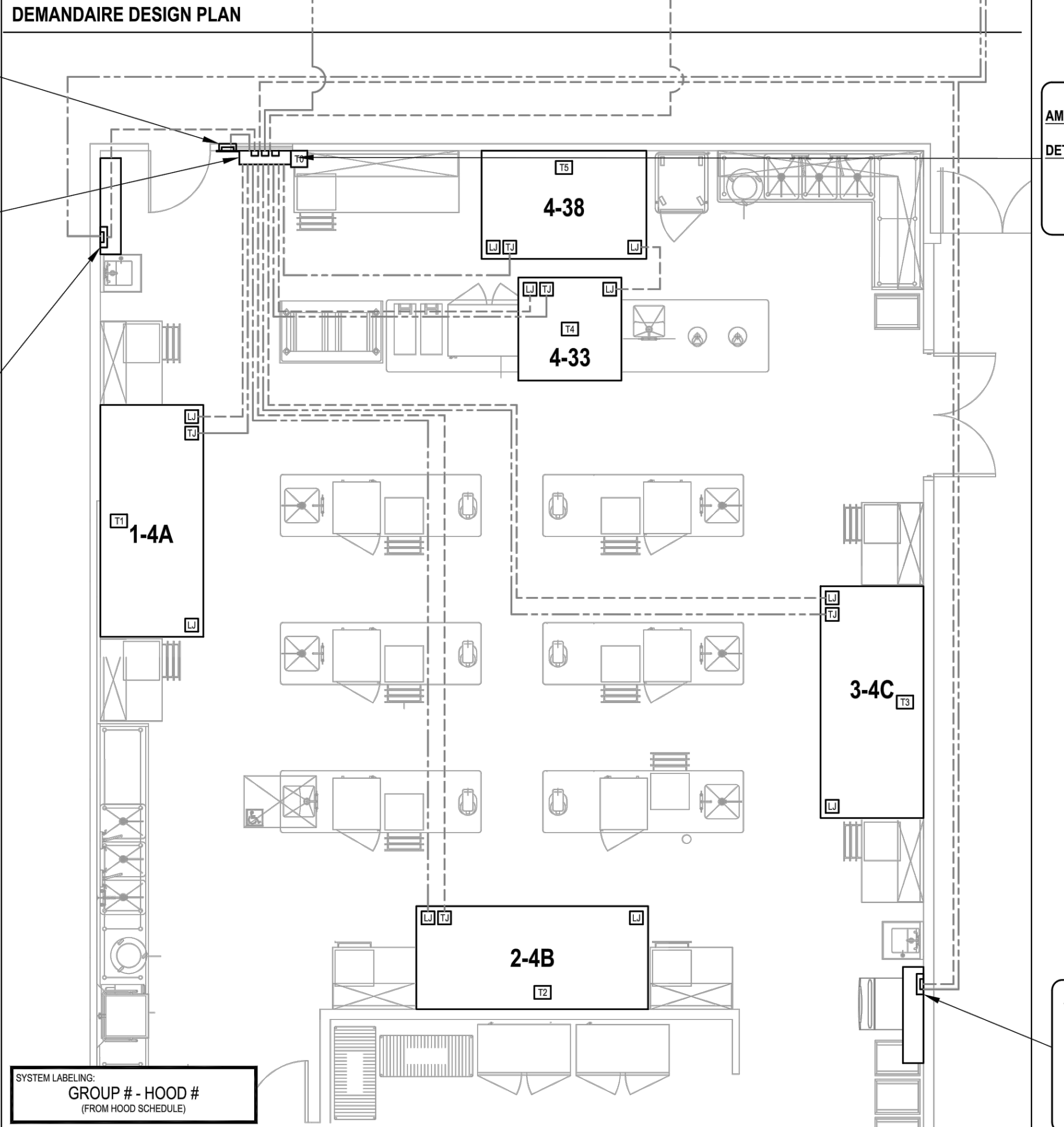
**BUILDING FIRE ALARM**  
NFPA 66 - 10.6.2. WHERE A FIRE ALARM SIGNALING SYSTEM IS SERVING THE OCCUPANCY WHERE THE EXTINGUISHING SYSTEM IS LOCATED, THE ACTIVATION OF THE AUTOMATIC FIRE-EXTINGUISHING SYSTEM SHALL ACTIVATE THE FIRE ALARM SIGNALING SYSTEM. GAS VALVE CIRCUIT: 120V1, 20 AMPS (SEE ELECTRICAL SCHEDULE)

**AMBIENT RESISTANCE TEMPERATURE DETECTOR (ARTD) #T0**  
SEE DETAILS (ARTD)

**HUMAN MACHINE INTERFACE (HMI) TOUCH SCREEN**  
SEE DETAIL (HMI)

**DEMANDAIRE CONTROL PANEL #4DA**  
SEE ELECTRICAL SCHEDULE

**FIRE SUPPRESSION SYSTEM (FSS) #1 MICROSWITCHES**  
LOCATED IN FSS #1 UTILITY CABINET SEE DETAILS (ES & CAS)



**FIRE SUPPRESSION SYSTEM (FSS) #2 MICROSWITCHES**  
LOCATED IN FSS #2 UTILITY CABINET SEE DETAILS (ES & CAS)

**DRAWING APPROVAL**

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**VERIFY THE FOLLOWING:**

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- FAN HORSEPOWER, VOLTAGE & PHASE (IF VFD'S OR MOTOR STARTERS ARE PROVIDED BY STREIVOR)

**APPROVED FOR FABRICATION**

APPROVED  
 APPROVED AS NOTED  
 REVISE & RESUBMIT

APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_

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WWW.STREIVOR.COM

PROJECT: VENTURE ACADEMY - CULINARY LAB

AMD FOODSERVICE DESIGN

SHORT CIRCUIT CURRENT: 5KA RMS SYMMETRICAL, 120 V MAXIMUM

SERIAL NO.	DA-02
CONTROL PANEL NO.	---
C.P. ENCLOSURE NO.	---
HMI ENCLOSURE NO.	---
ITEM #	4 DA
MODEL	GOLD
DATE	9/5/2023
DRAWN BY:	JWS
CHECKED BY:	HLF
CONSULTANT:	AMD FOODSERVICE DESIGN

SCALE: N.T.S.

NO.	DESCRIPTION	DATE	INT.
1	RELOCATED DA SYSTEM	09/20/23	AVB
2	---	---	---
3	---	---	---
4	---	---	---

DRAWING: DA-02  
SHEET 02 OF 02  
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CULINARY LAB VENTURE ACADEMY

FOODSERVICE EQUIPMENT EXHAUST HOOD DEMAND AIR DETAILS

CONSULTANT: AMD FOODSERVICE DESIGN

PROJECT NO.	REVISIONS	BY
23-34-026		

DATE: 07/06/2023

DRAWN: SLH

CHECKED: SLH

SCALE:

CADFILE: FSS.9.DWG

UPDATED:

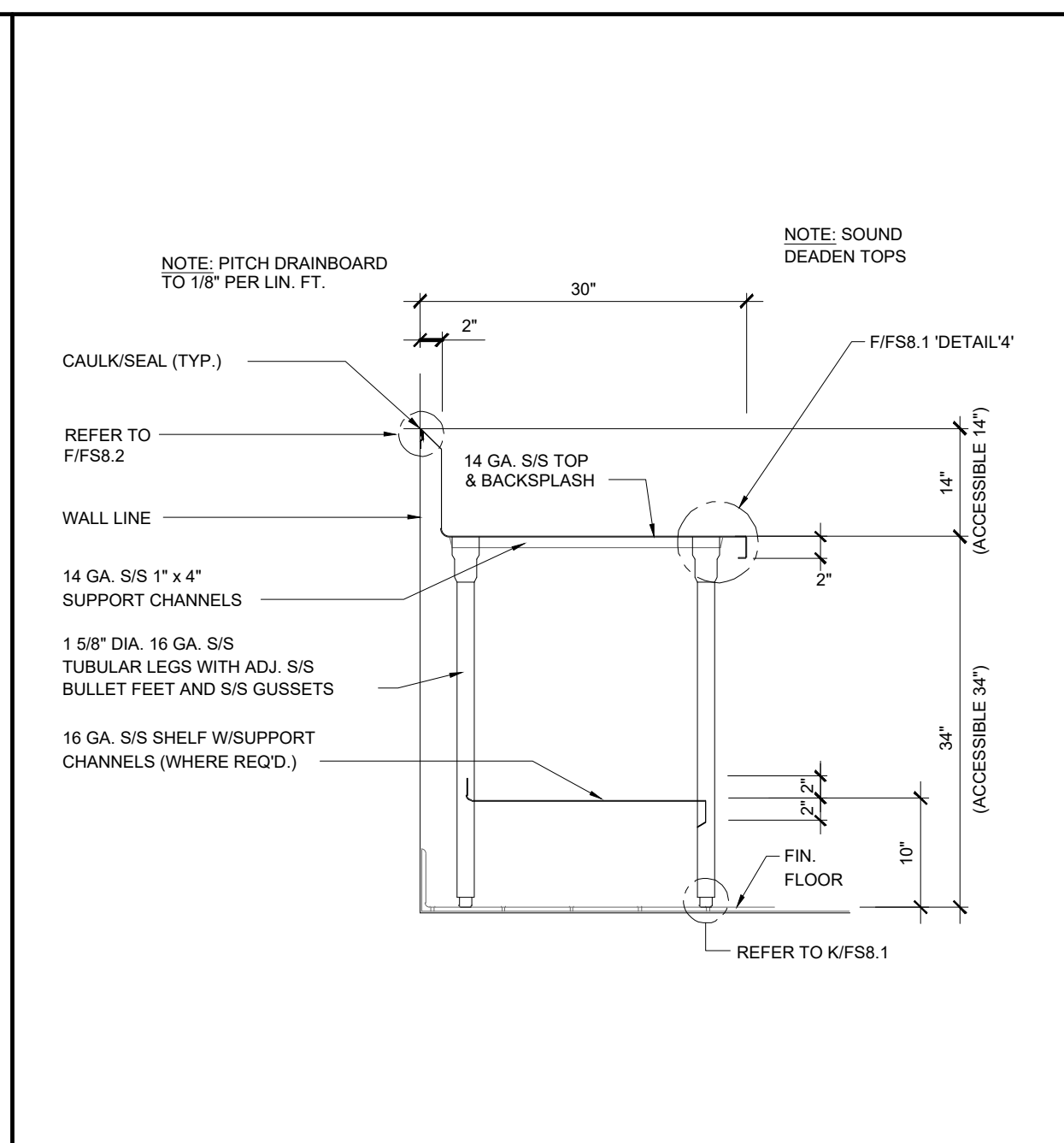
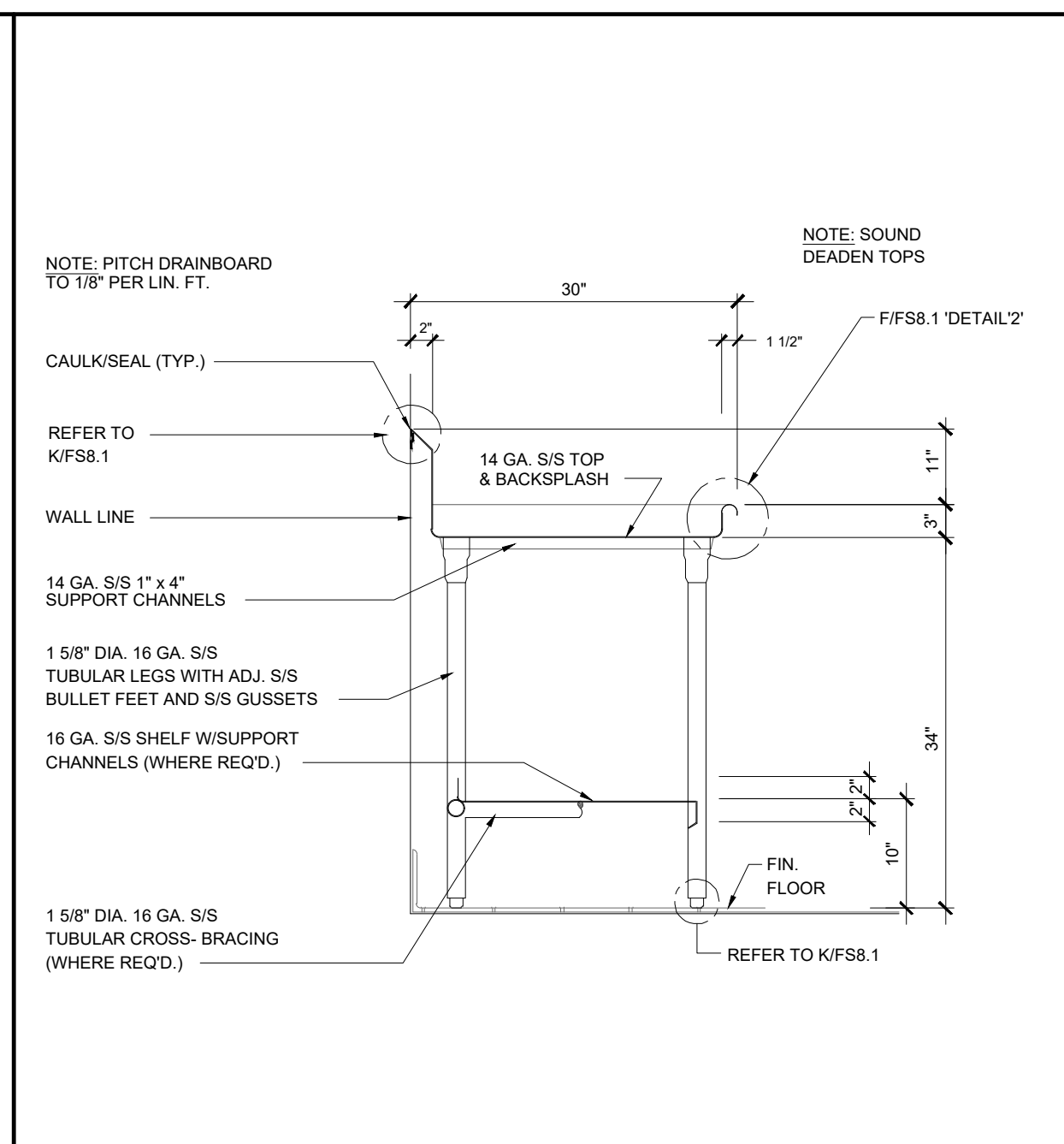
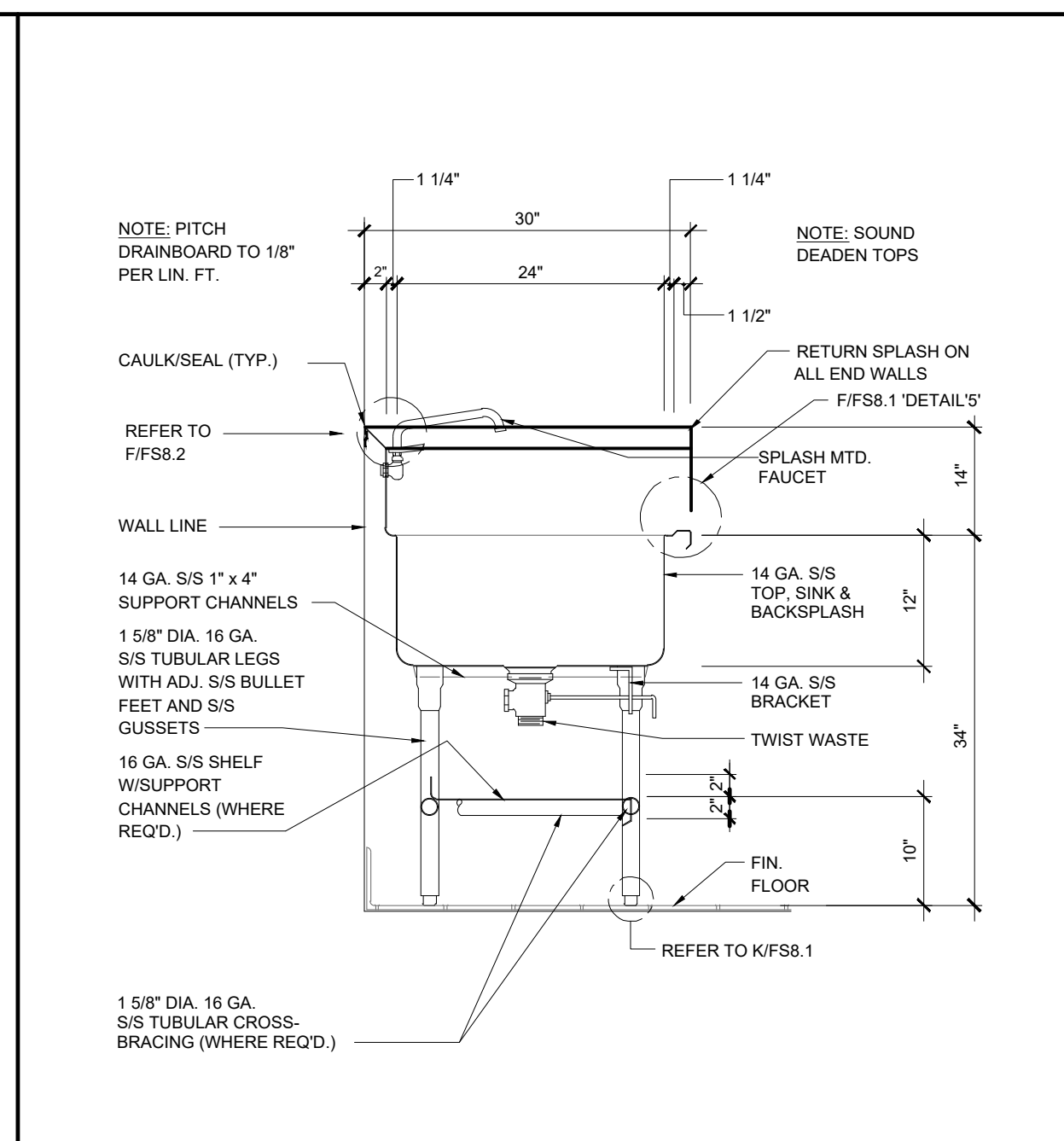
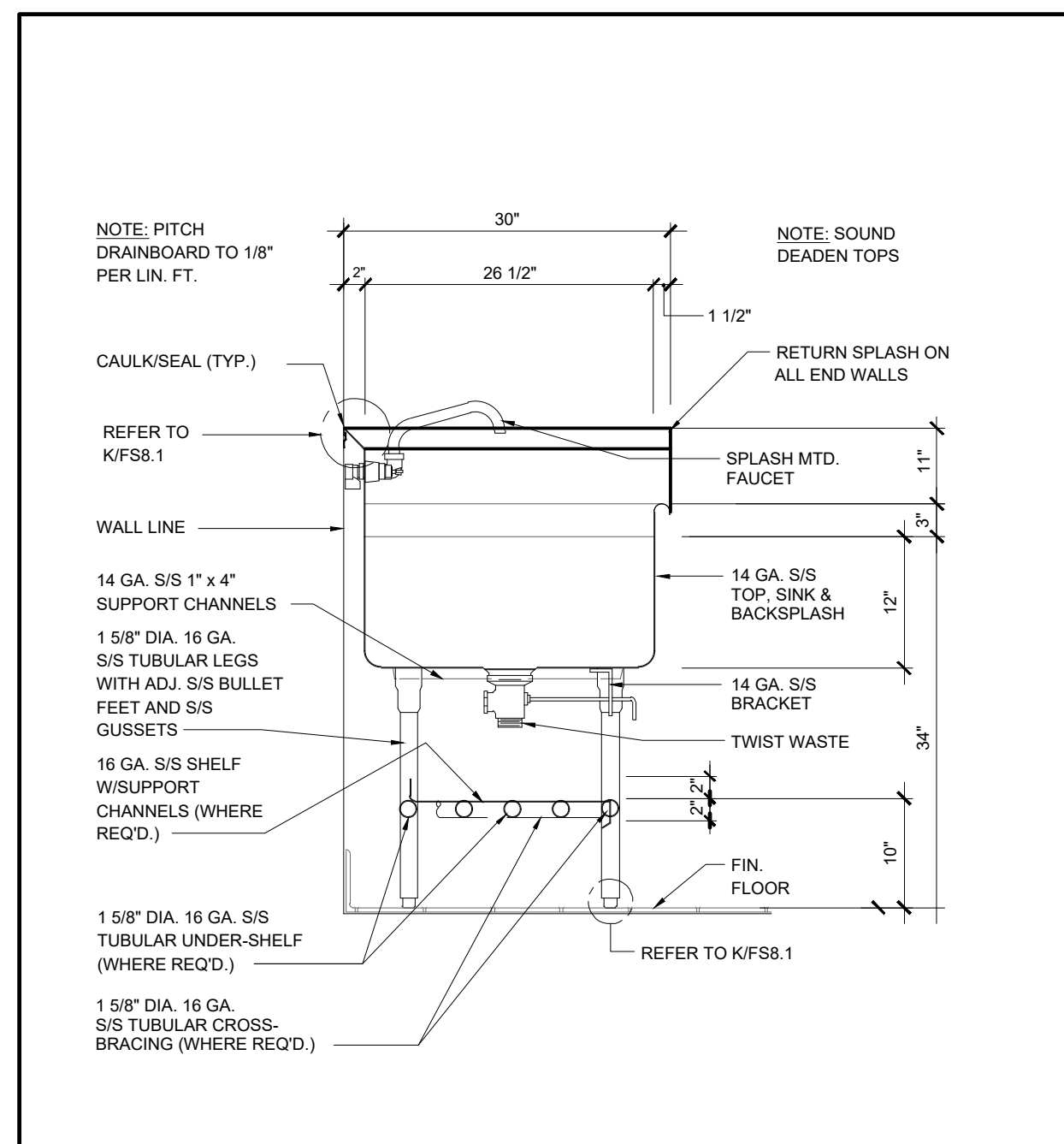
SHEET NO.

**FS5.9**

OF 115 SHEETS

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Sacramento, CA 95825  
Phone: 916.921.2112  
Fax: 916.921.2212



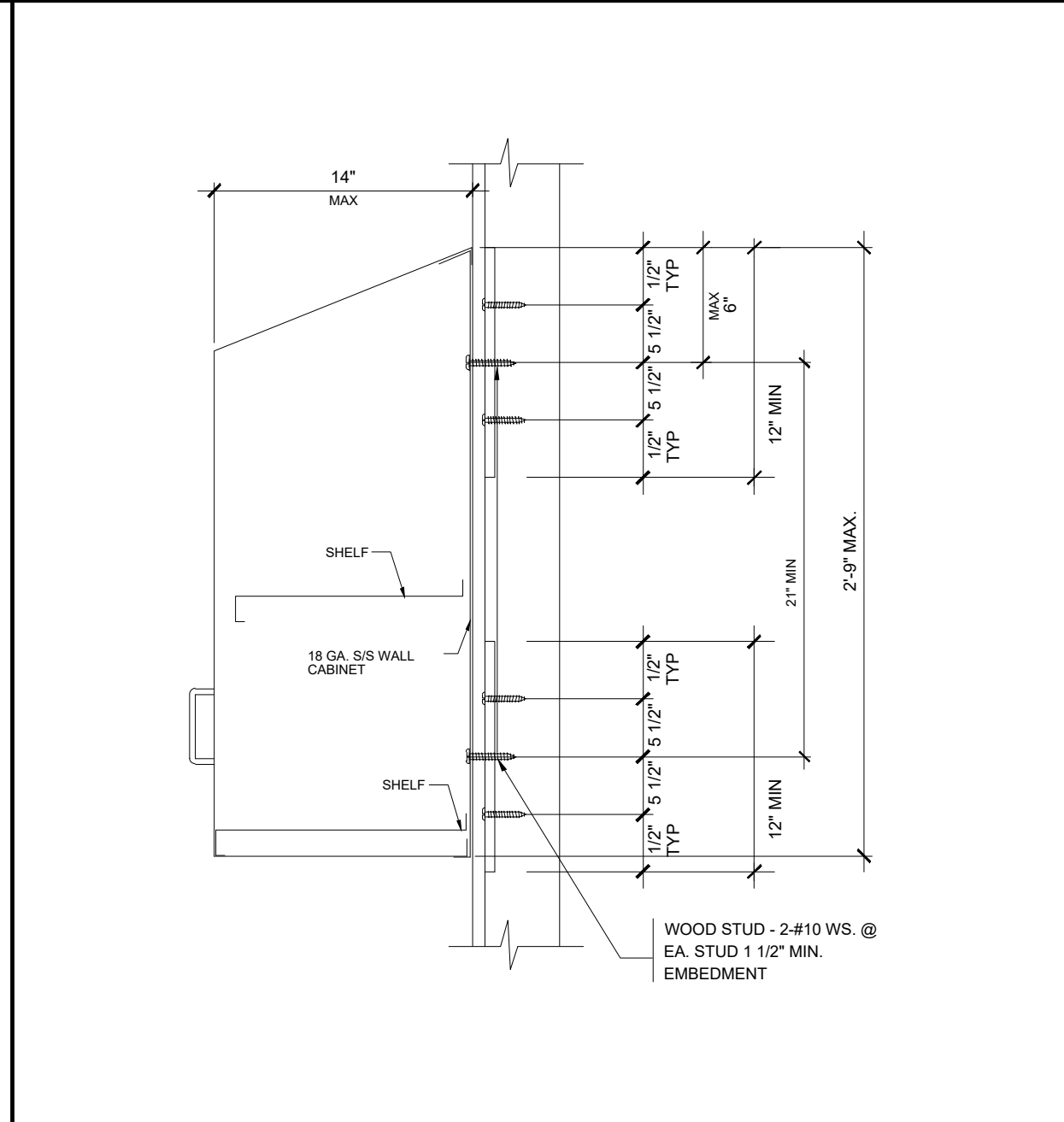
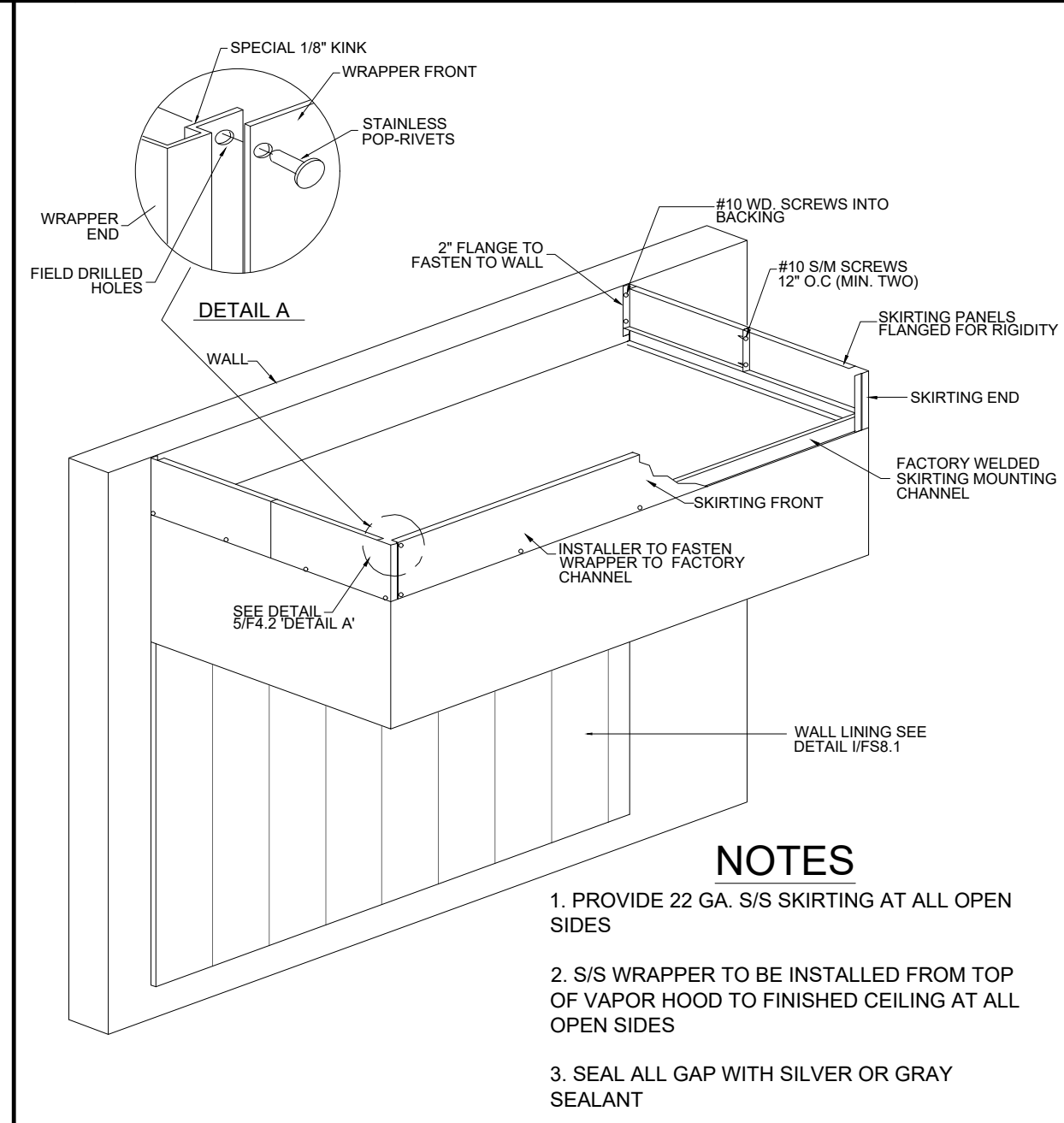
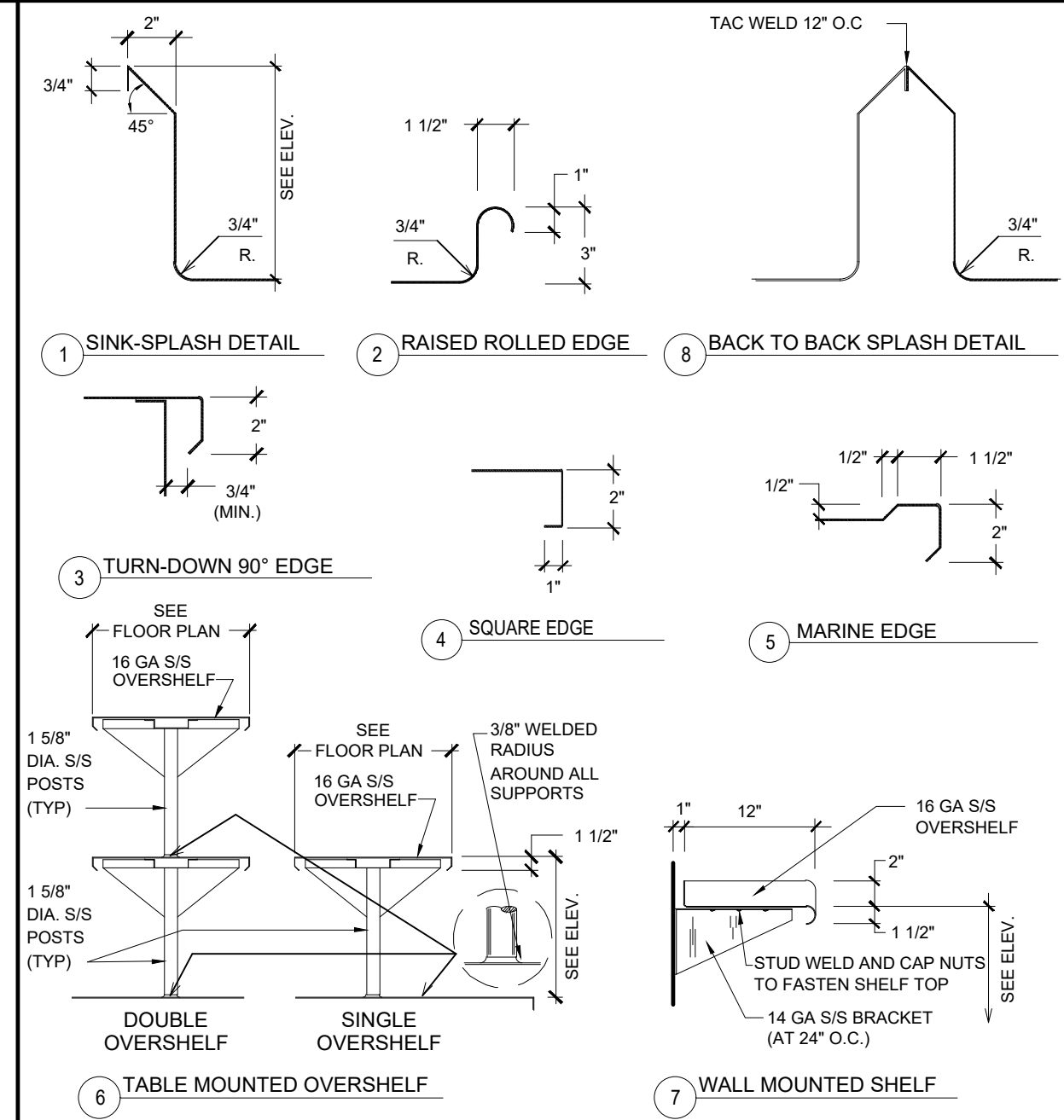
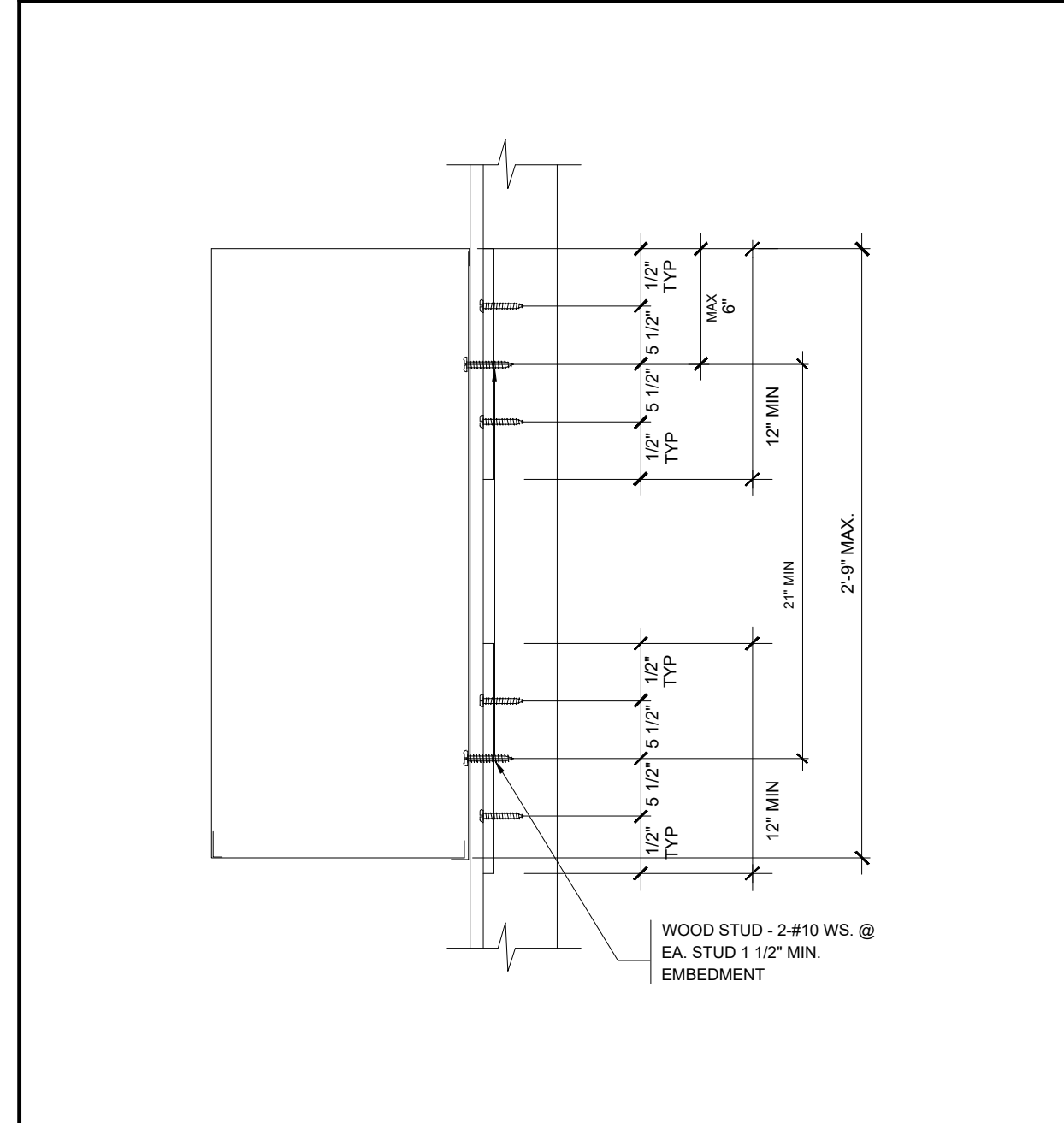


**A SECTION AT POT SINK (INTEGRAL)** NTS

**B SECTION AT PREP SINK** NTS

**C SECTION AT DISHTABLE** NTS

**D SECTION AT WORKCOUNTER** NTS

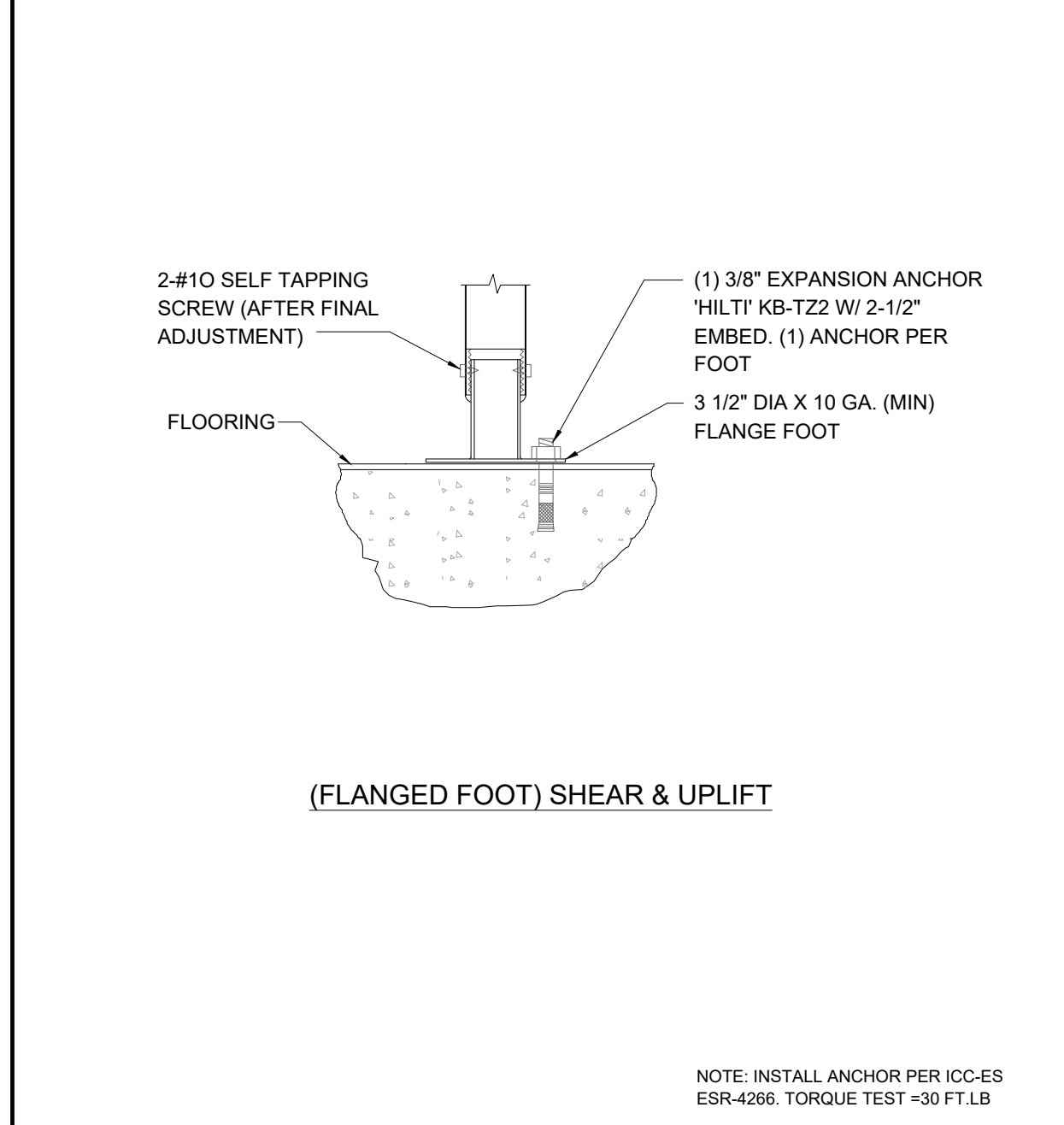
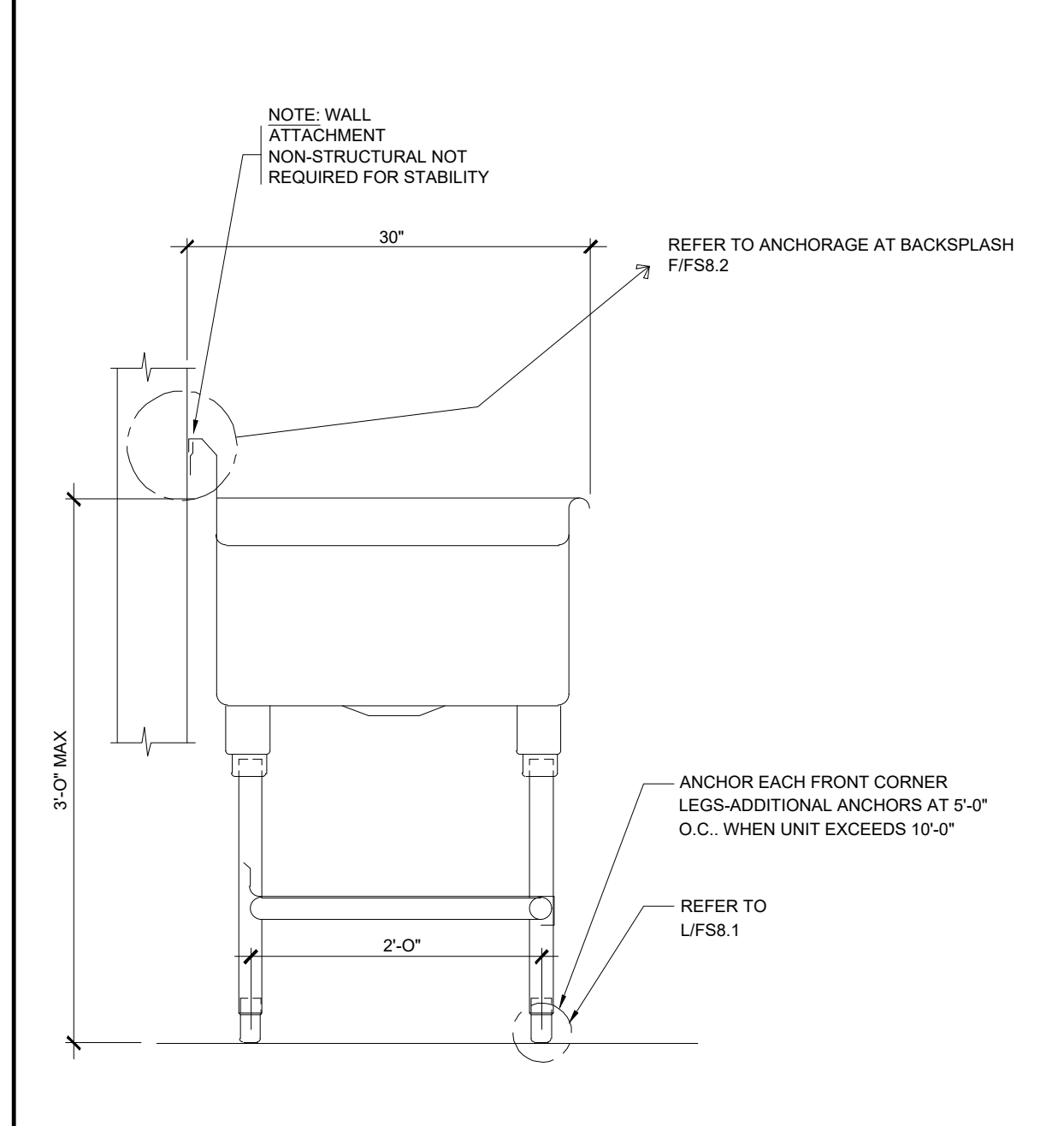
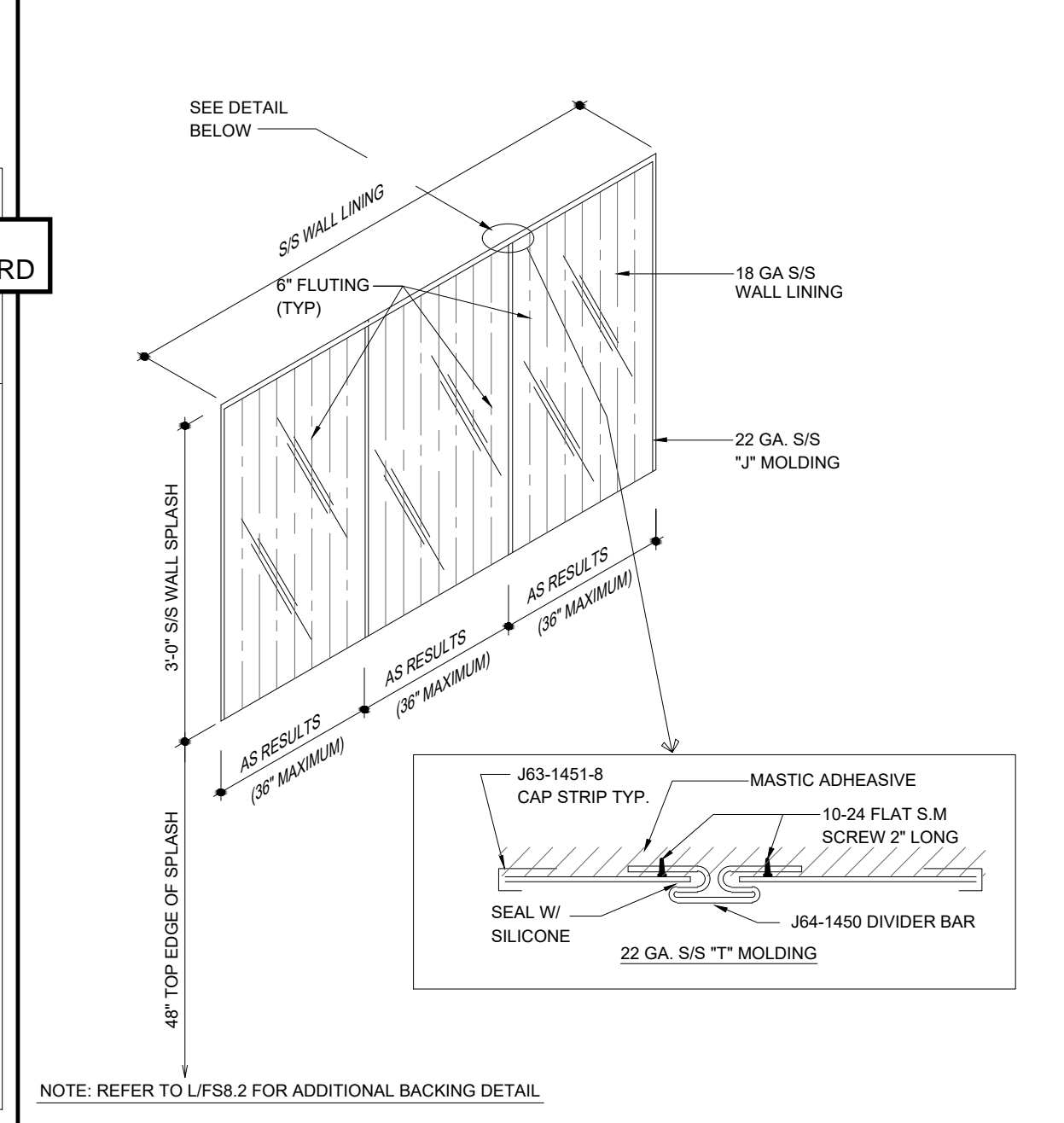
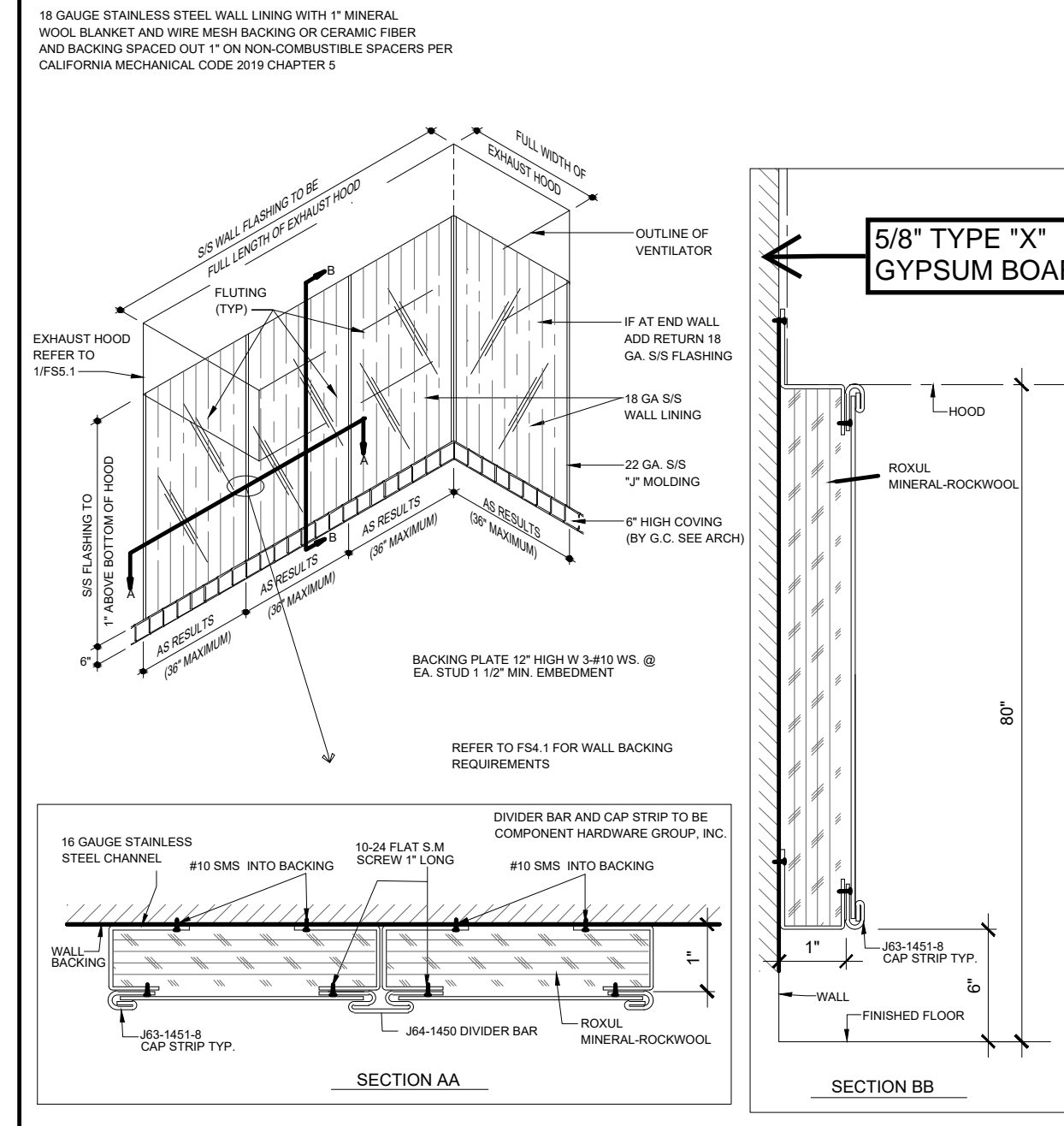


**E FIRE CABINET AT WALL** NTS

**F EDGE/SPLASH/SHELF DETAILS** NTS

**G CLOSURE SKIRTING AT HOOD** NTS

**H WALL MOUNTED CABINET** NTS



**I S/S INSULATED WALL LINING DETAIL** NTS

**J WALL SPLASH** NTS

**K FLOOR MOUNTED SINK @ WALL** NTS

**L FOOT ANCHORAGE DETAIL** NTS

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 Sacramento, CA 95825  
 Phone: 916.921.2112  
 Fax: 916.921.2212

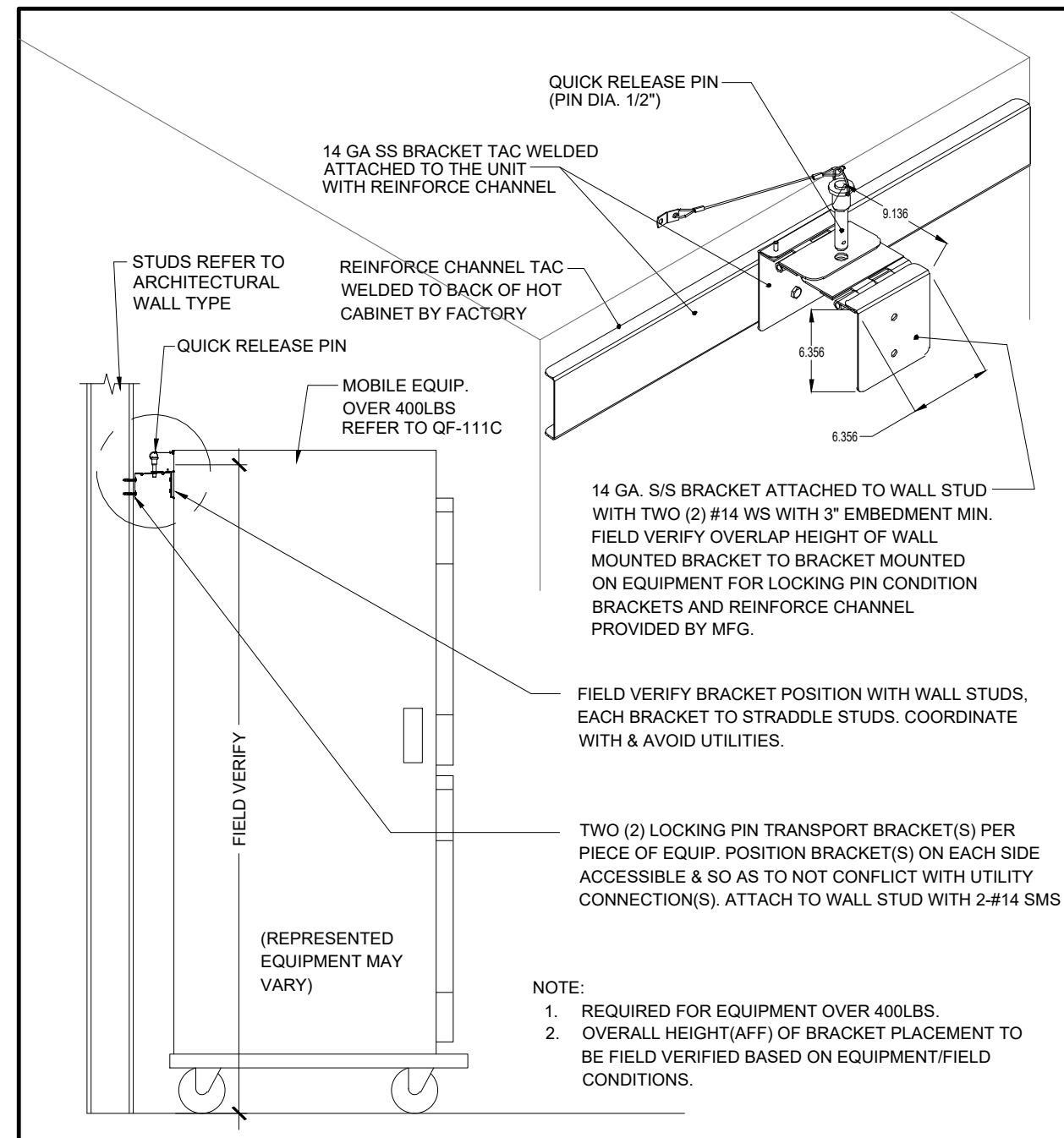


CULINARY LAB  
 VENTURE ACADEMY  
 FOODSERVICE EQUIPMENT  
 ANCHORAGE DETAILS

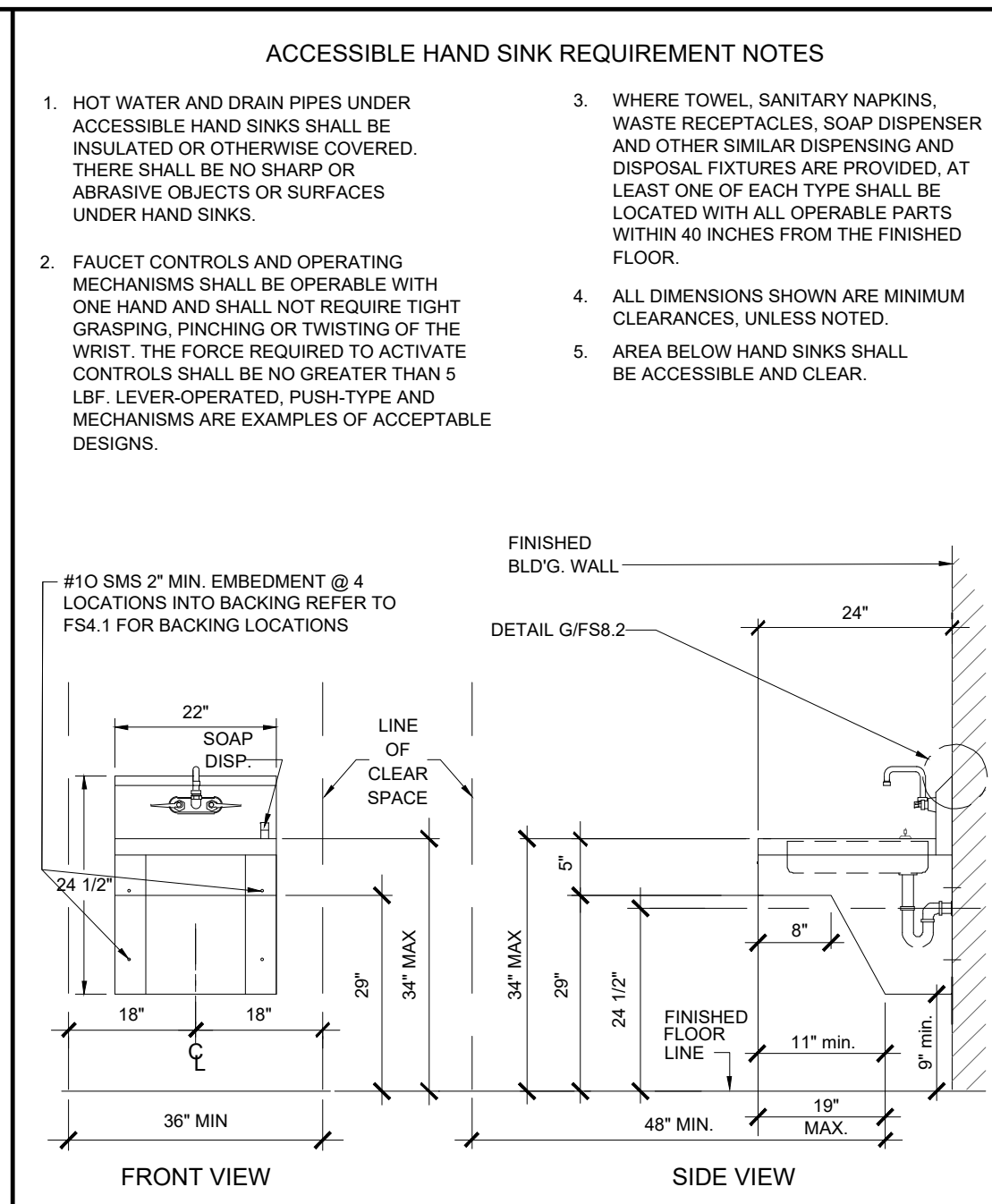


PROJECT NO.	REVISIONS	BY
23-34-026		
DATE		
07/06/2023		
DRAWN		
SLH		
CHECKED		
SLH		
SCALE		
CADFILE		
FS8.1.DWG		
UPDATED		
SHEET NO.		

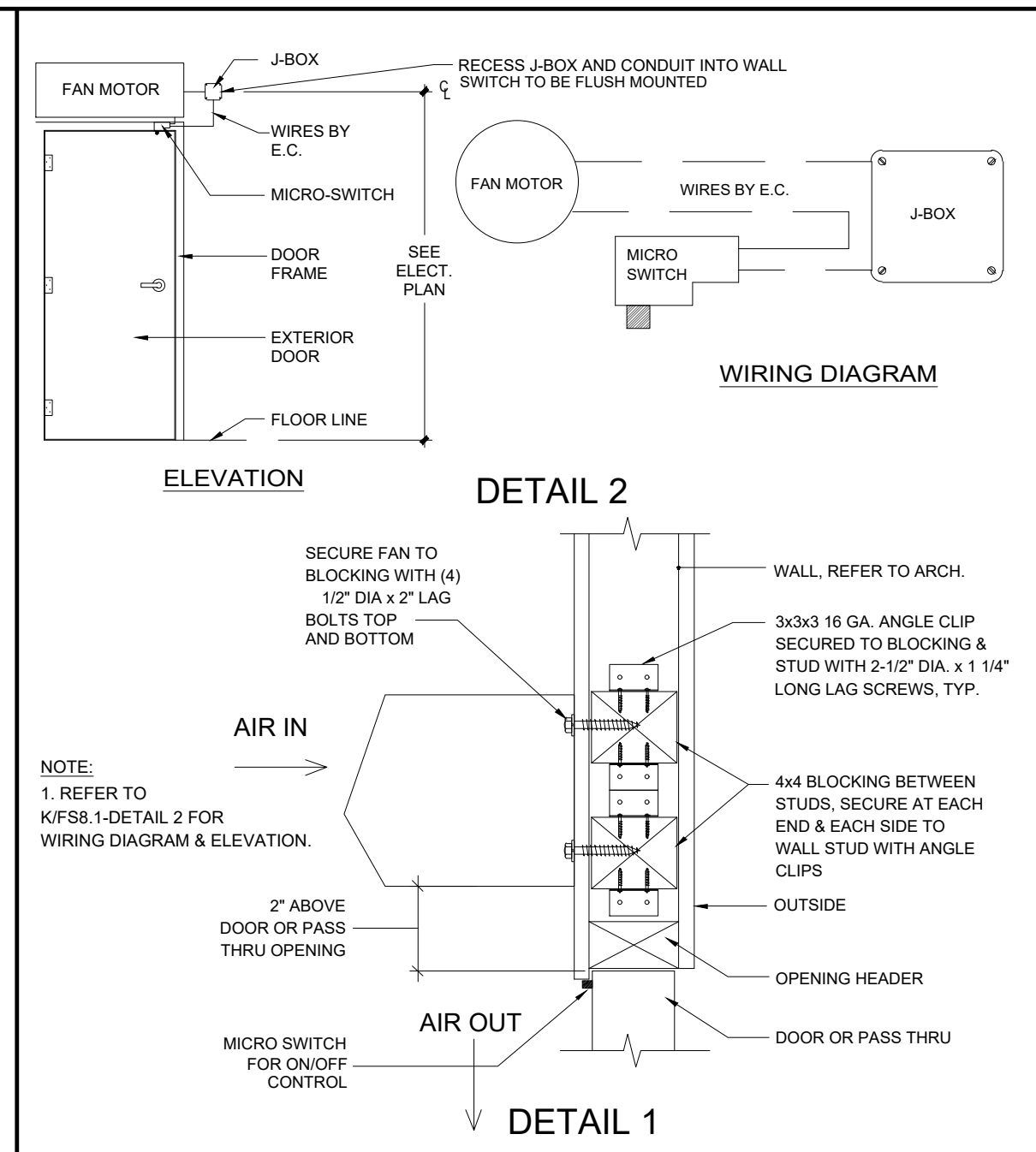
**FS8.1**



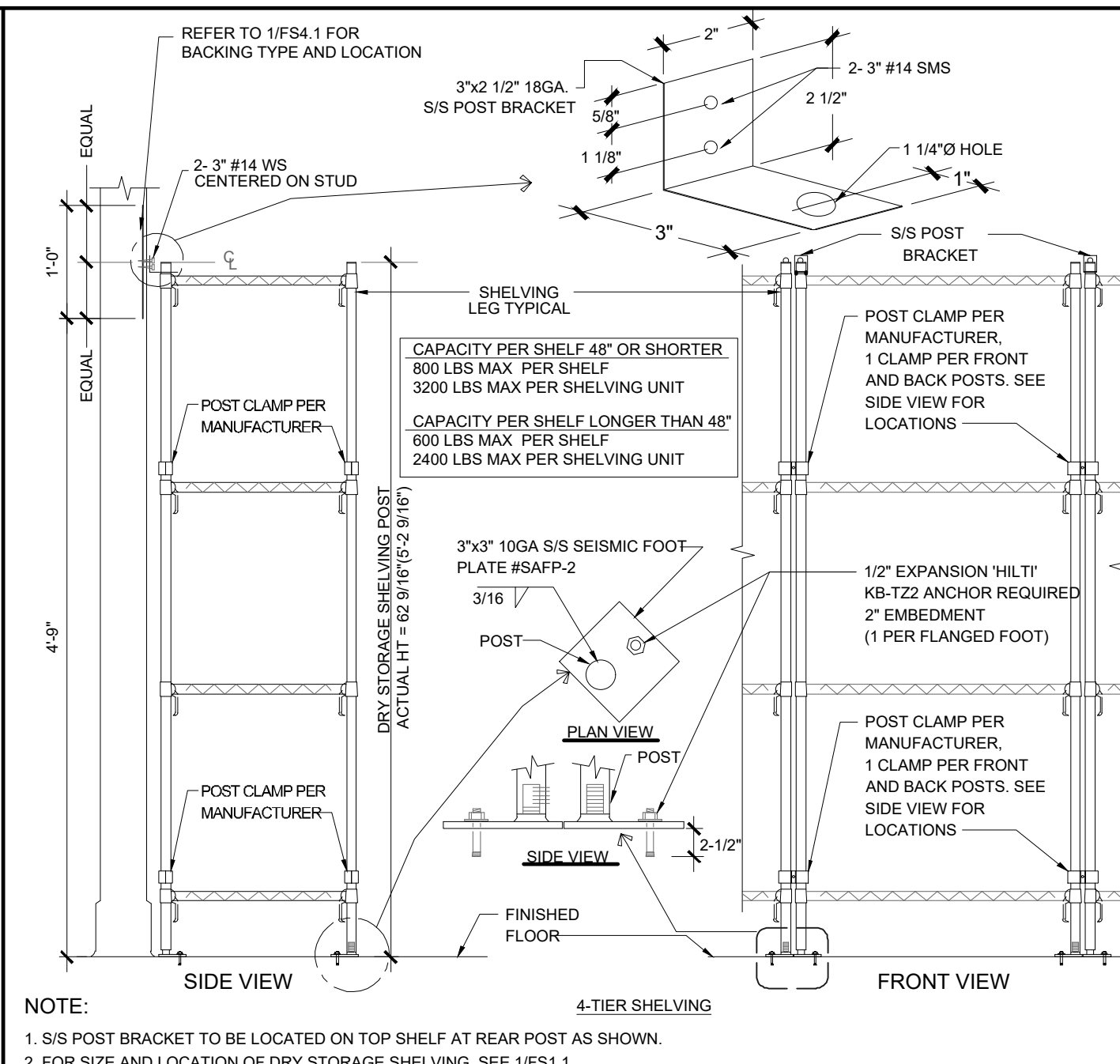
**A MOBILE EQUIP. ANCHORAGE BRACKET** NTS



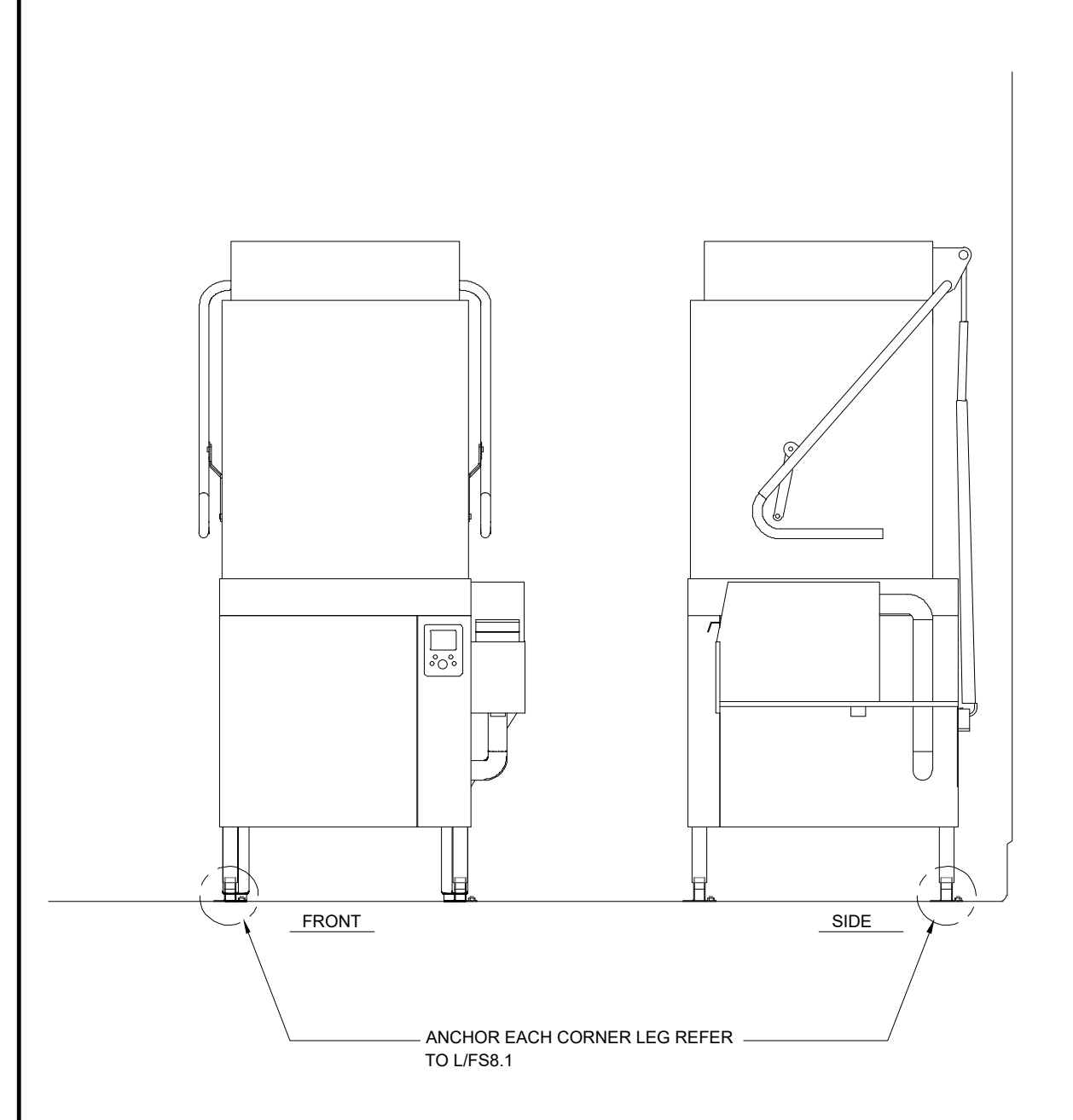
**B ACCESSIBLE HAND SINK DETAILS** NTS



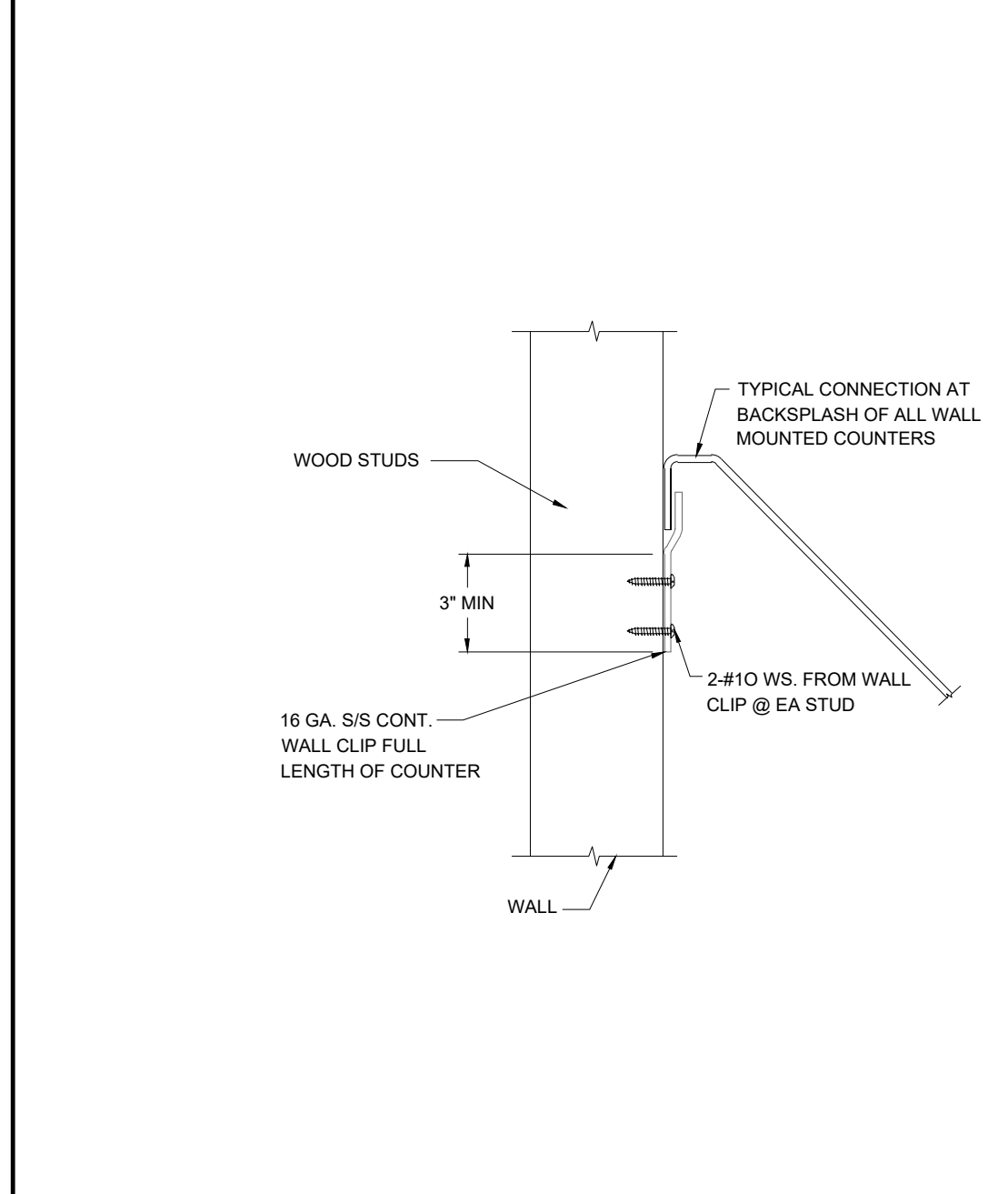
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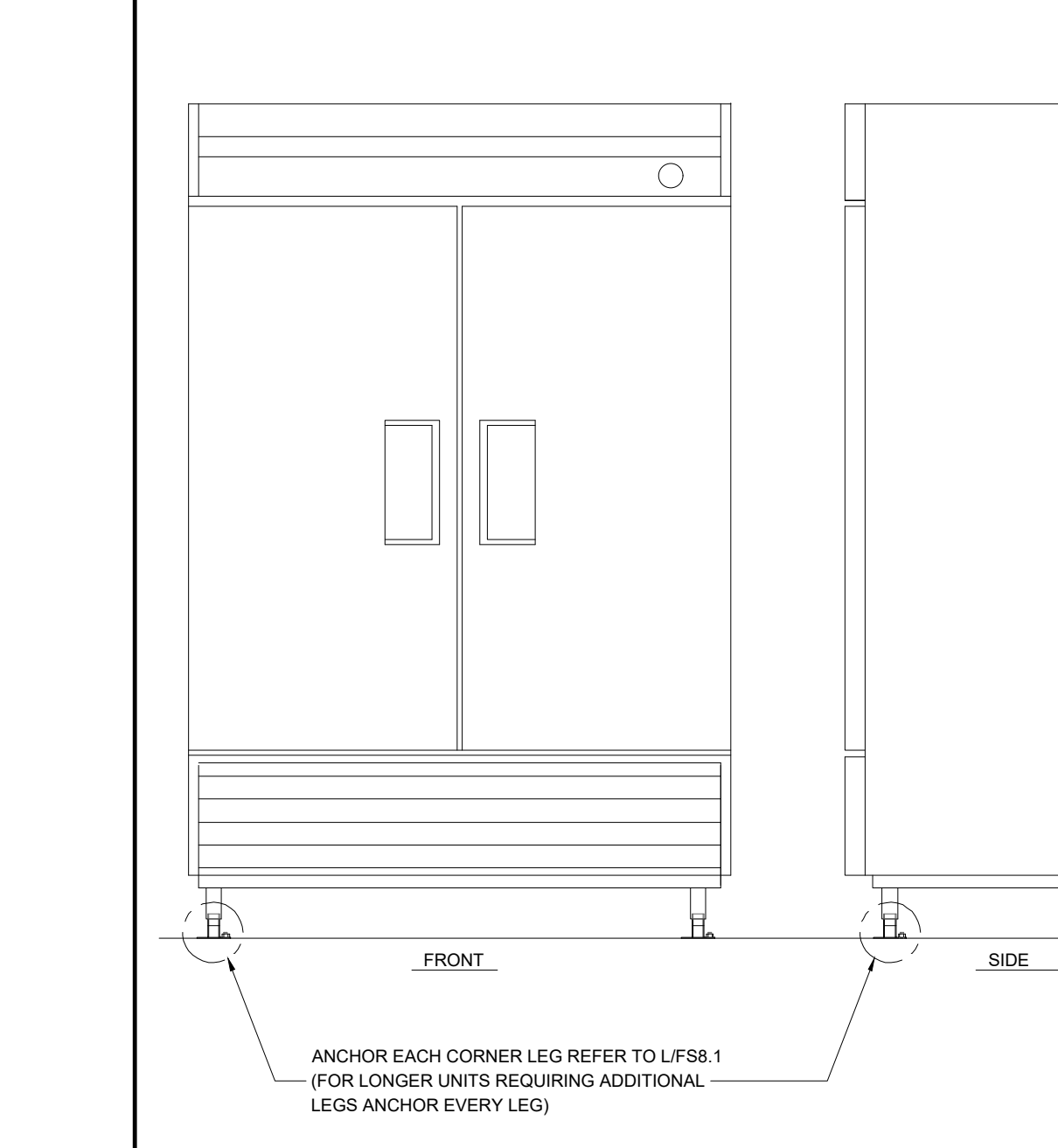
**D DRY STORAGE SHELVING ATTACHMENT** NTS



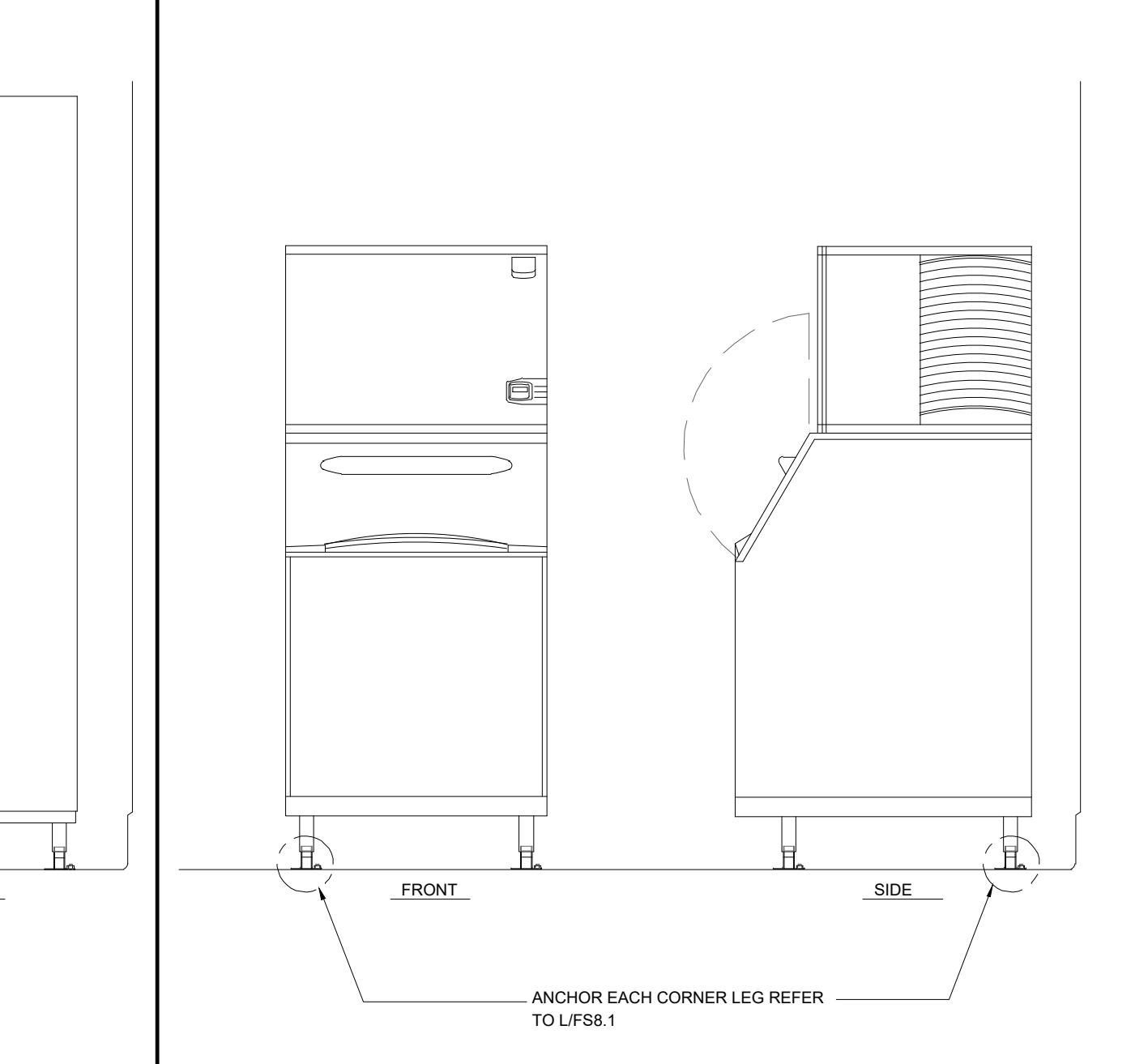
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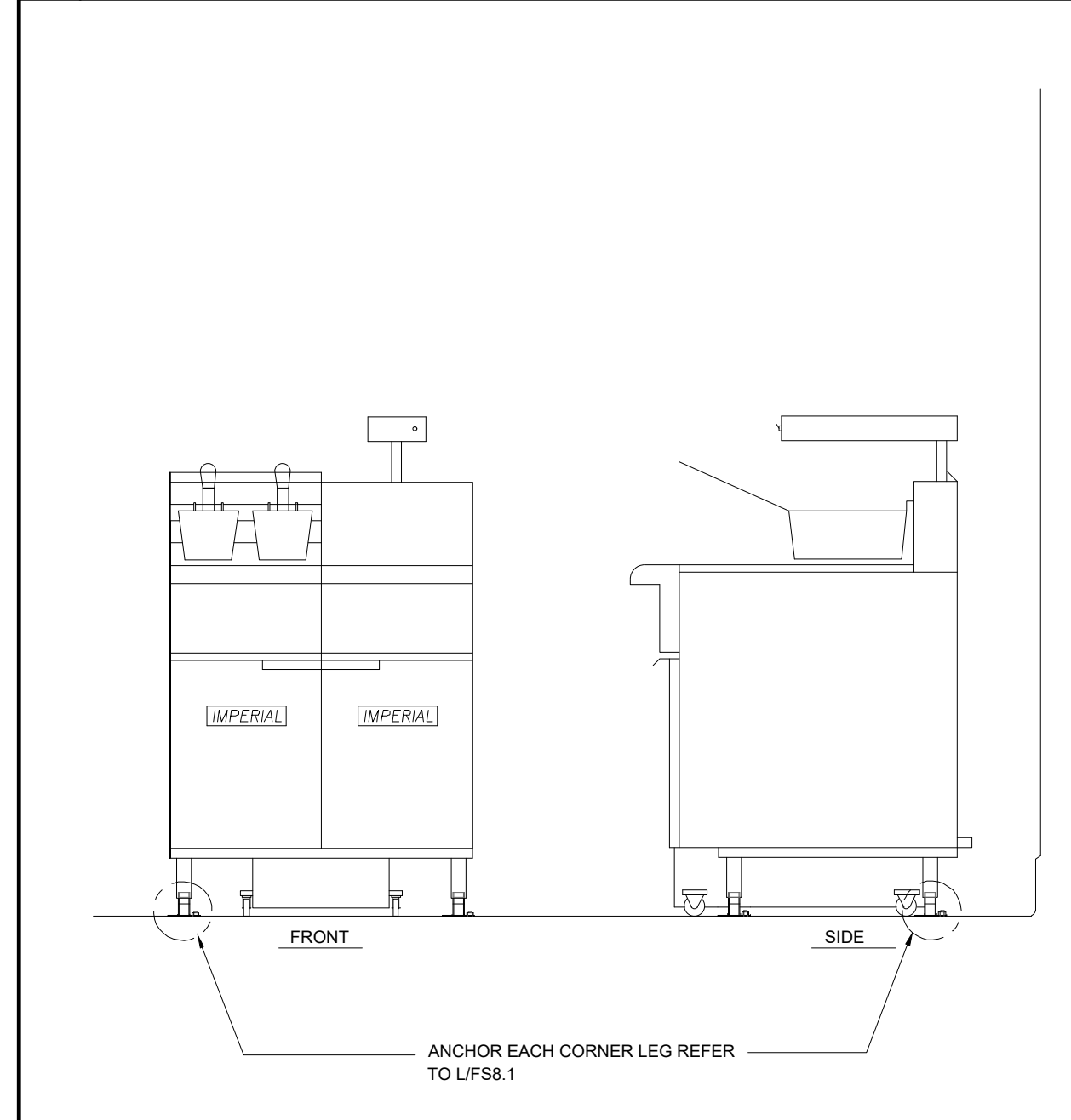
**F ANCHORAGE AT BACKSPLASH** NTS



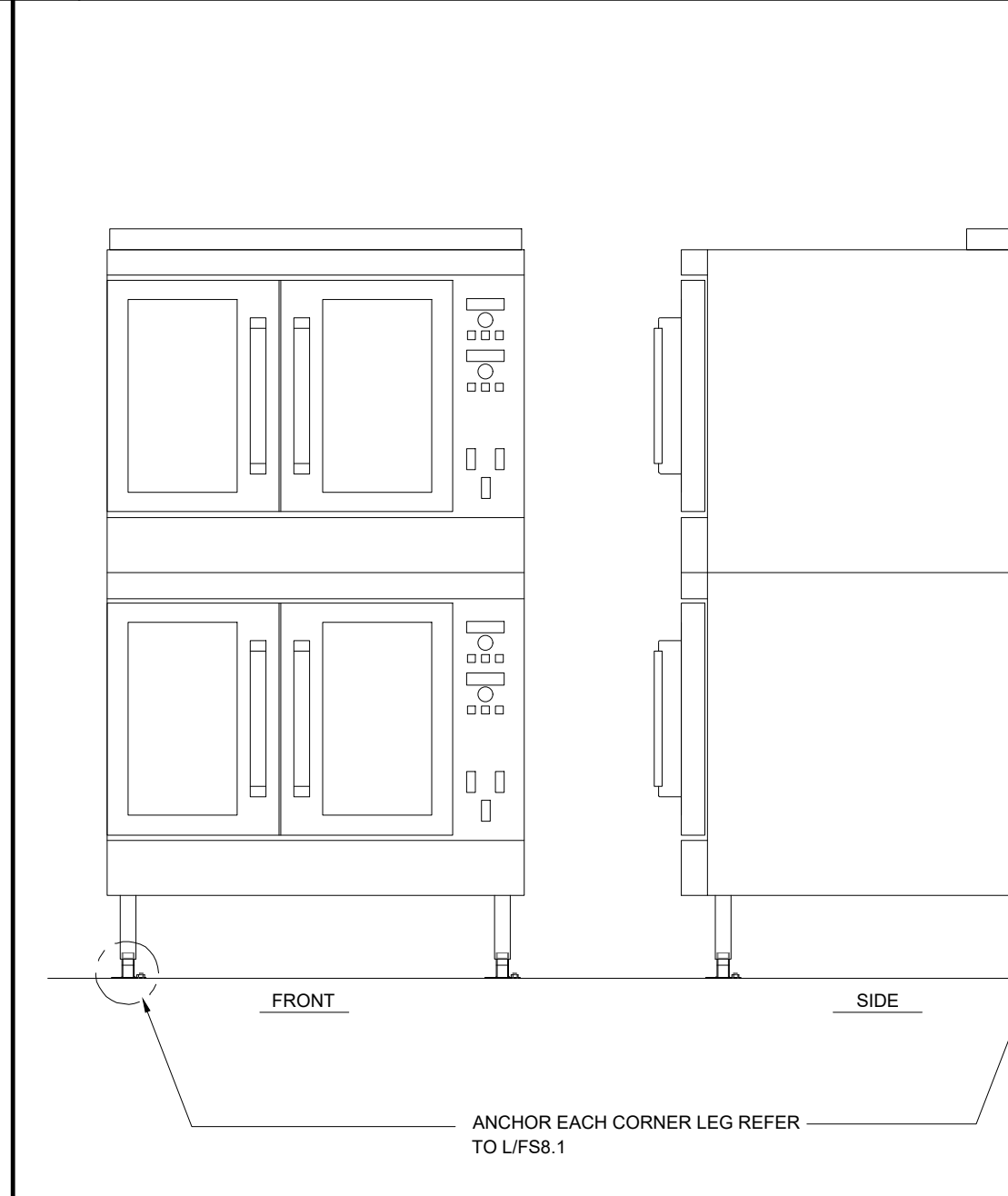
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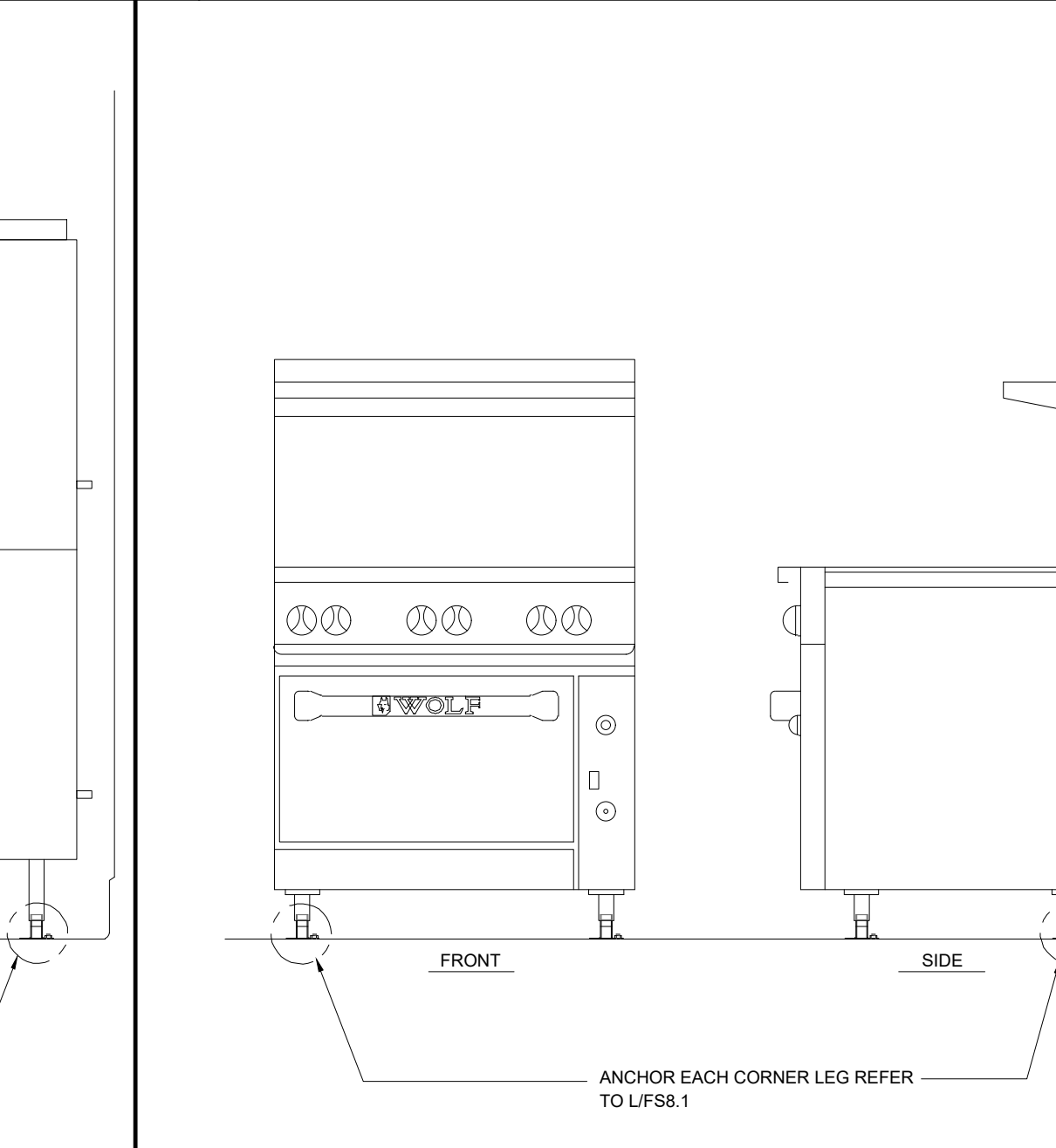
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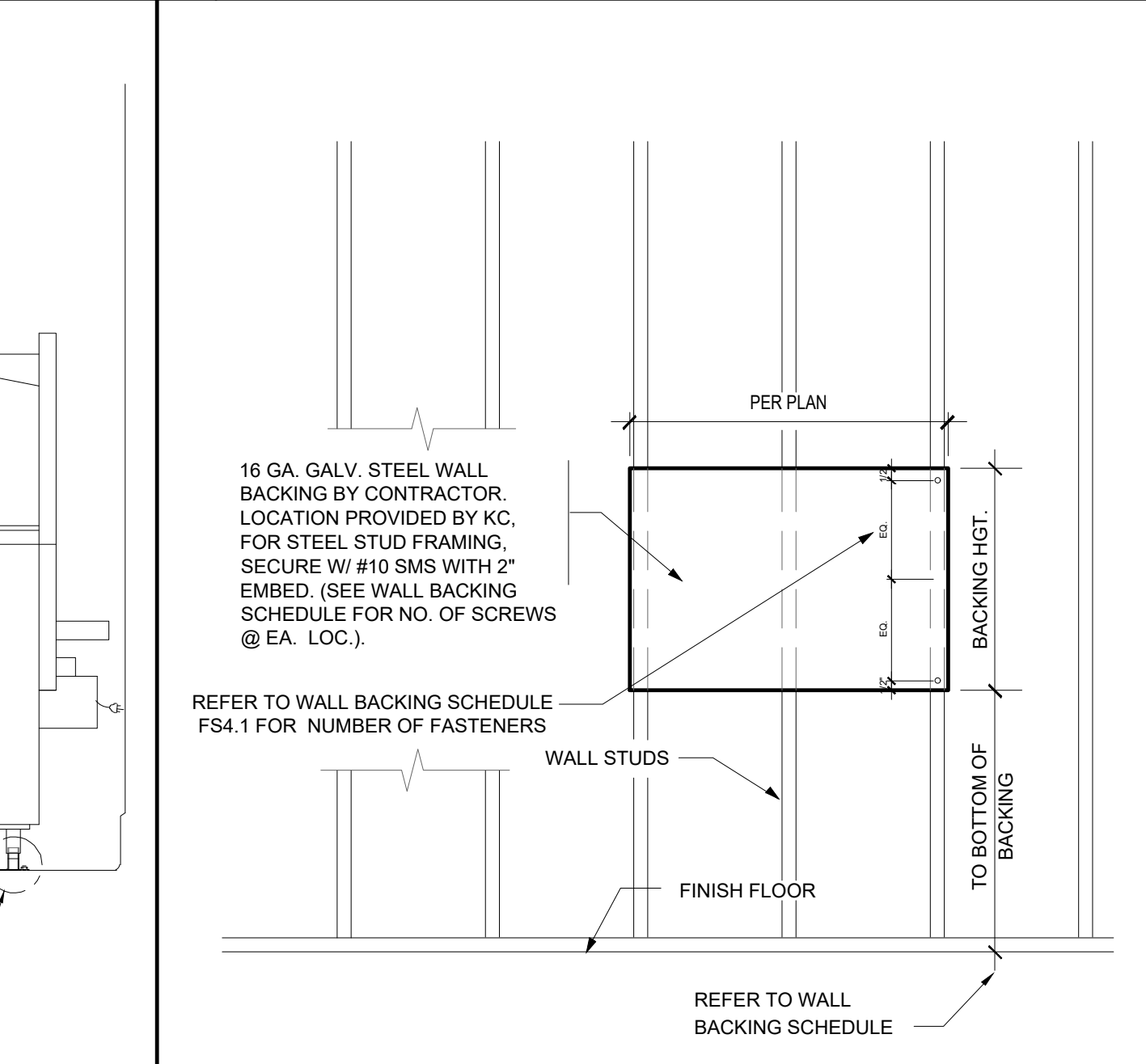
**I FRYER, DEEP FAT** NTS



**J OVEN, CONVECTION, GAS** NTS



**K OVEN, CONVECTION, GAS** NTS



**L WALL BACKING DETAIL** NTS

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 Sacramento, CA 95825  
 Phone: 916.921.2112  
 Fax: 916.921.2212

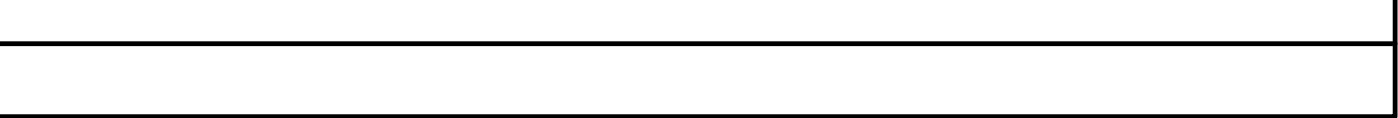
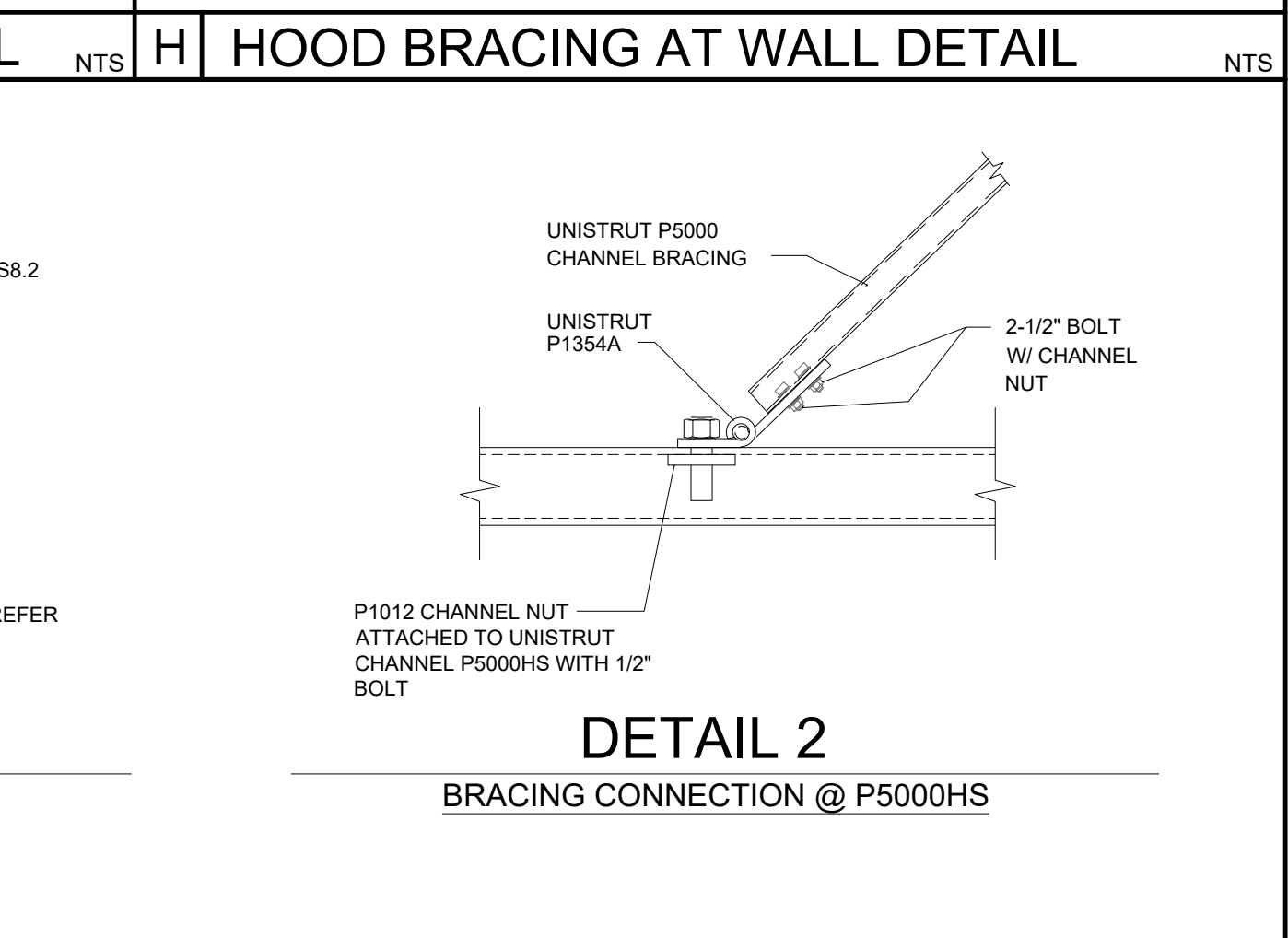
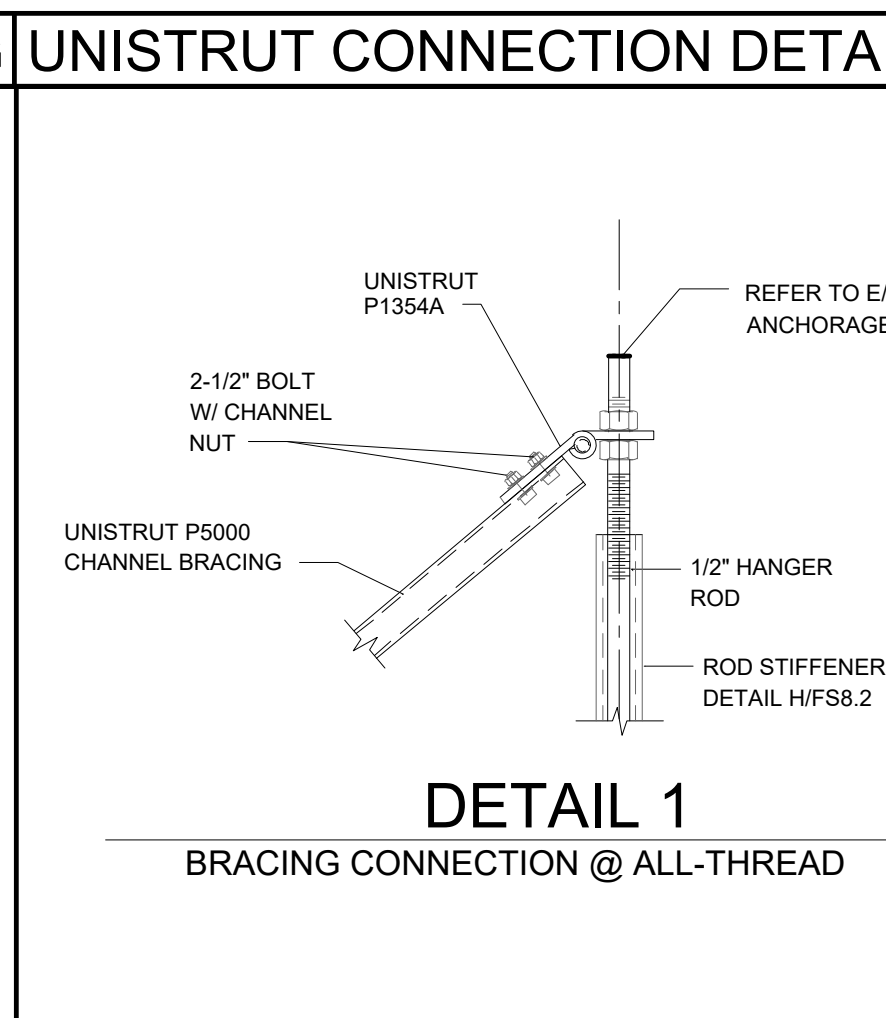
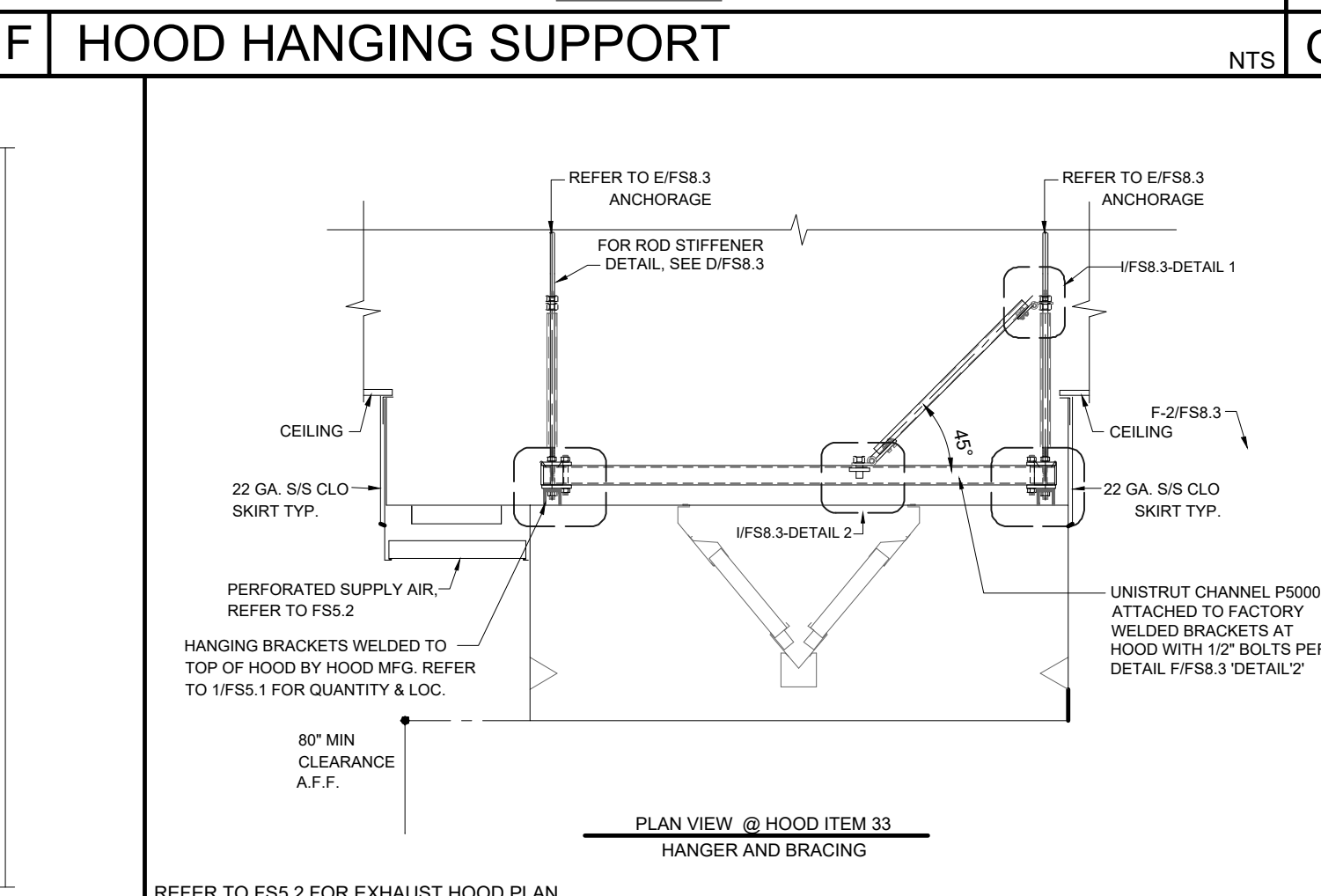
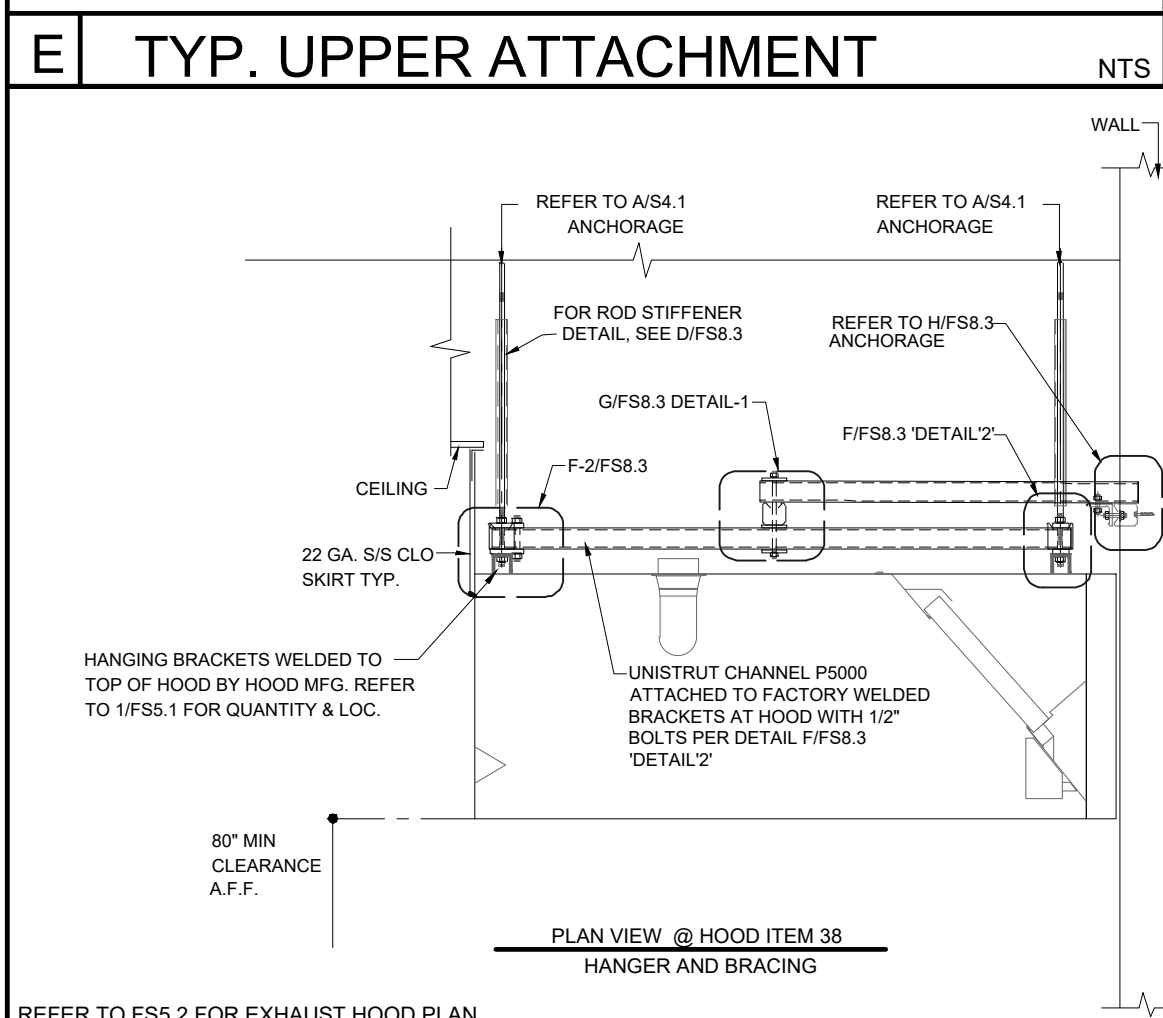
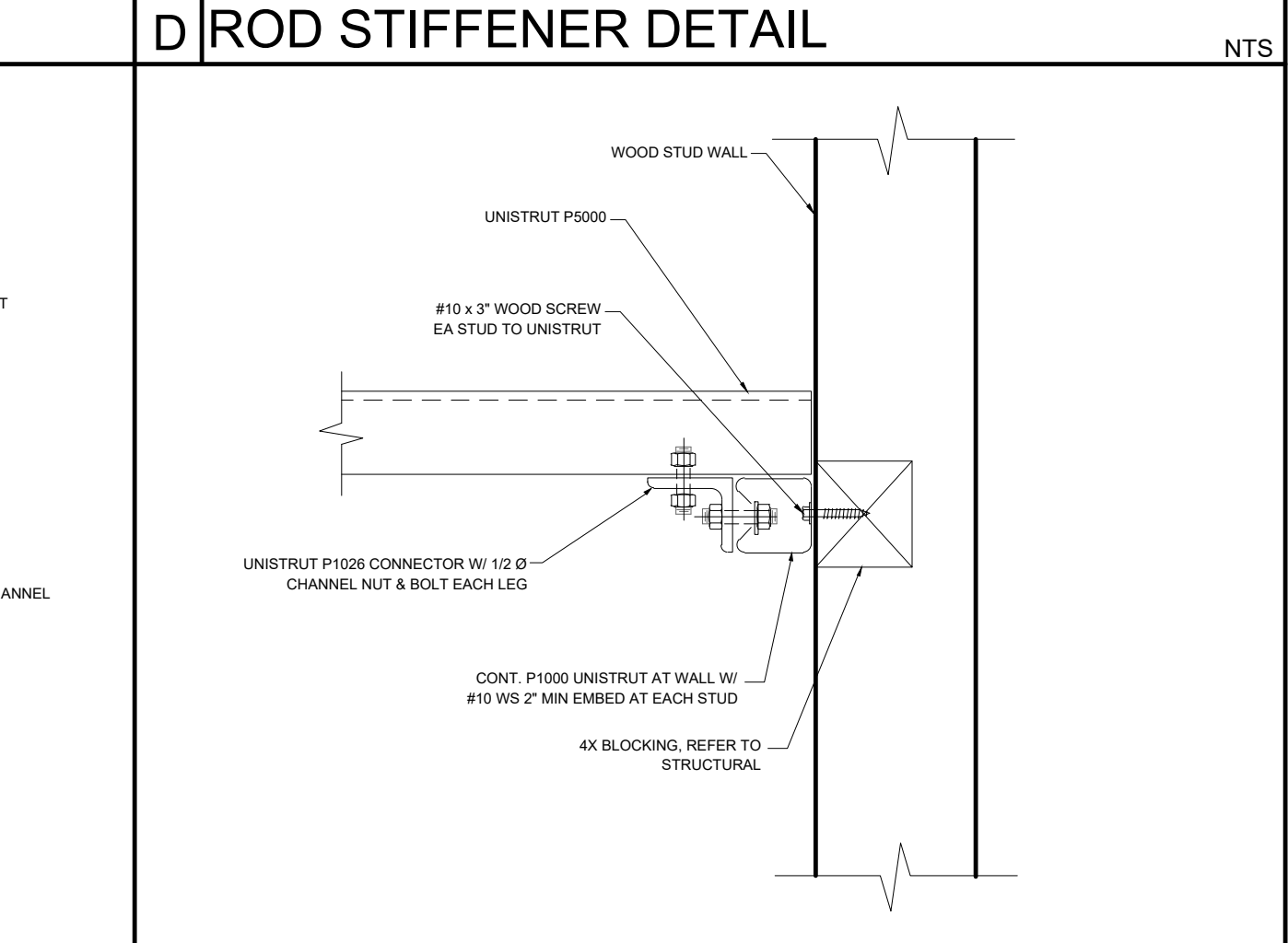
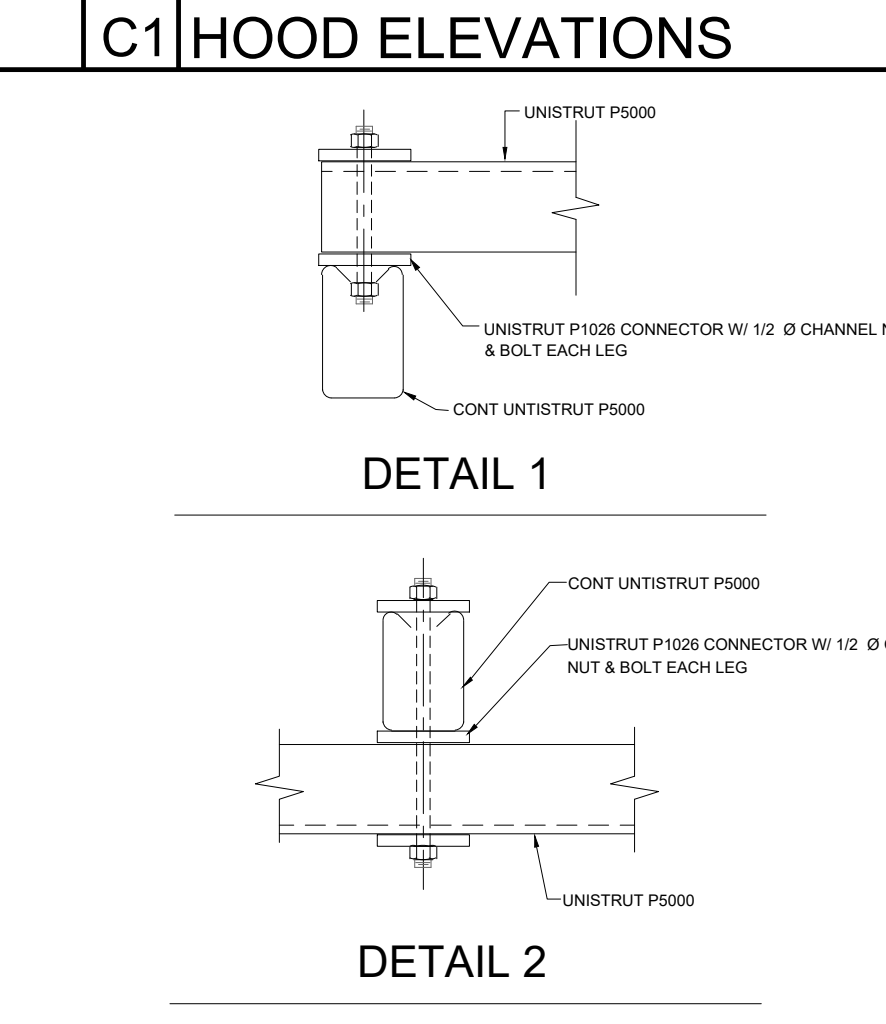
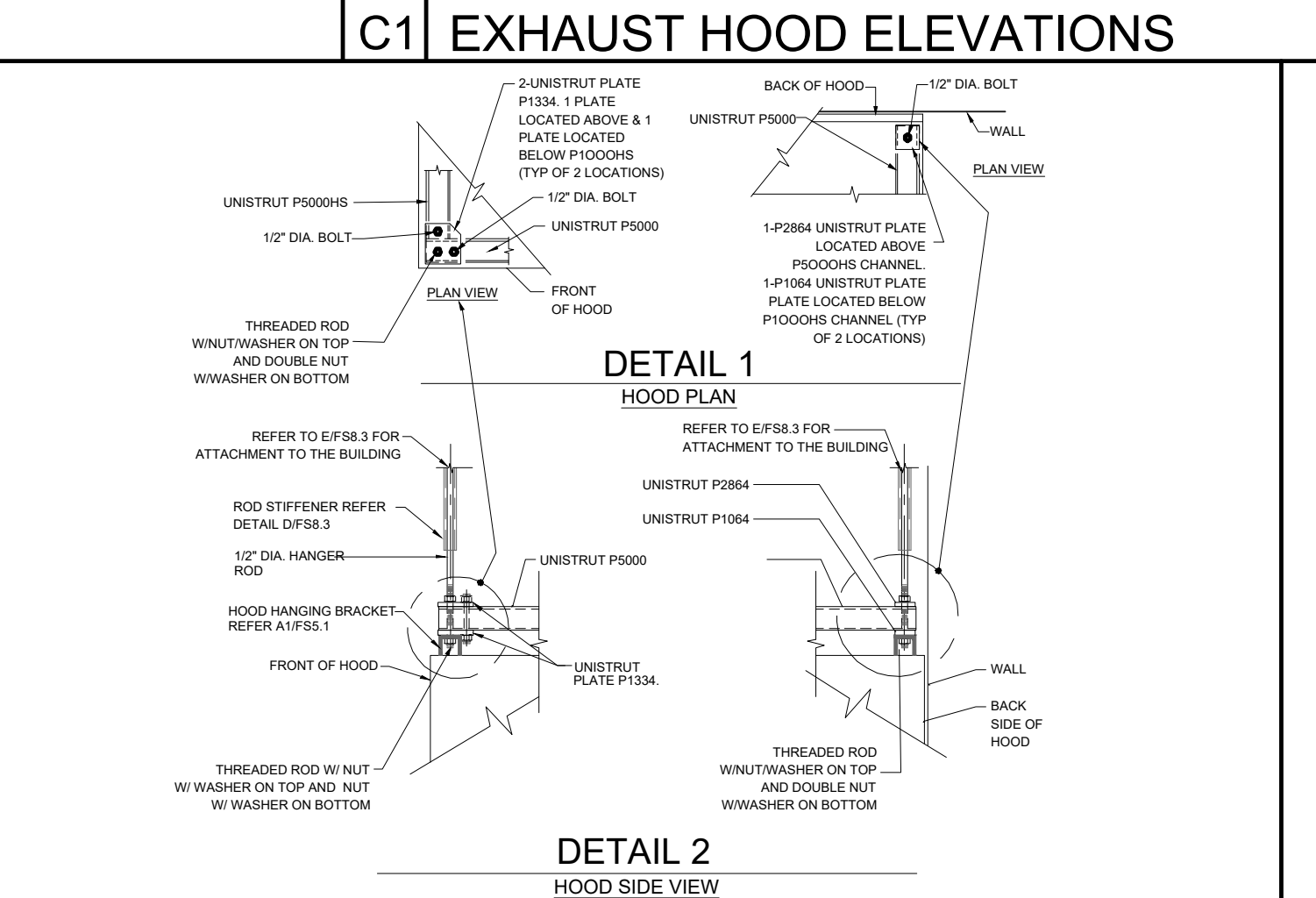
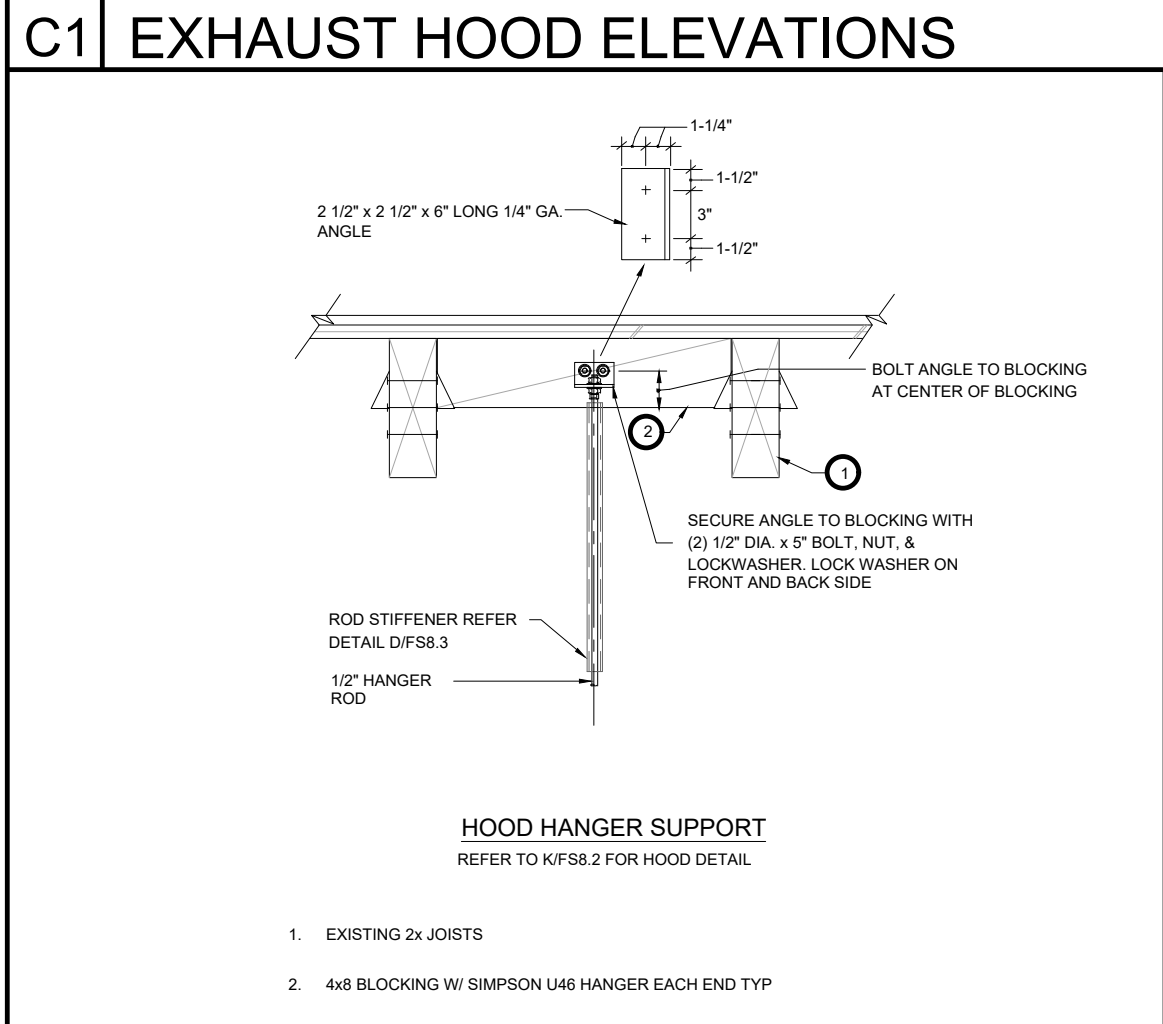
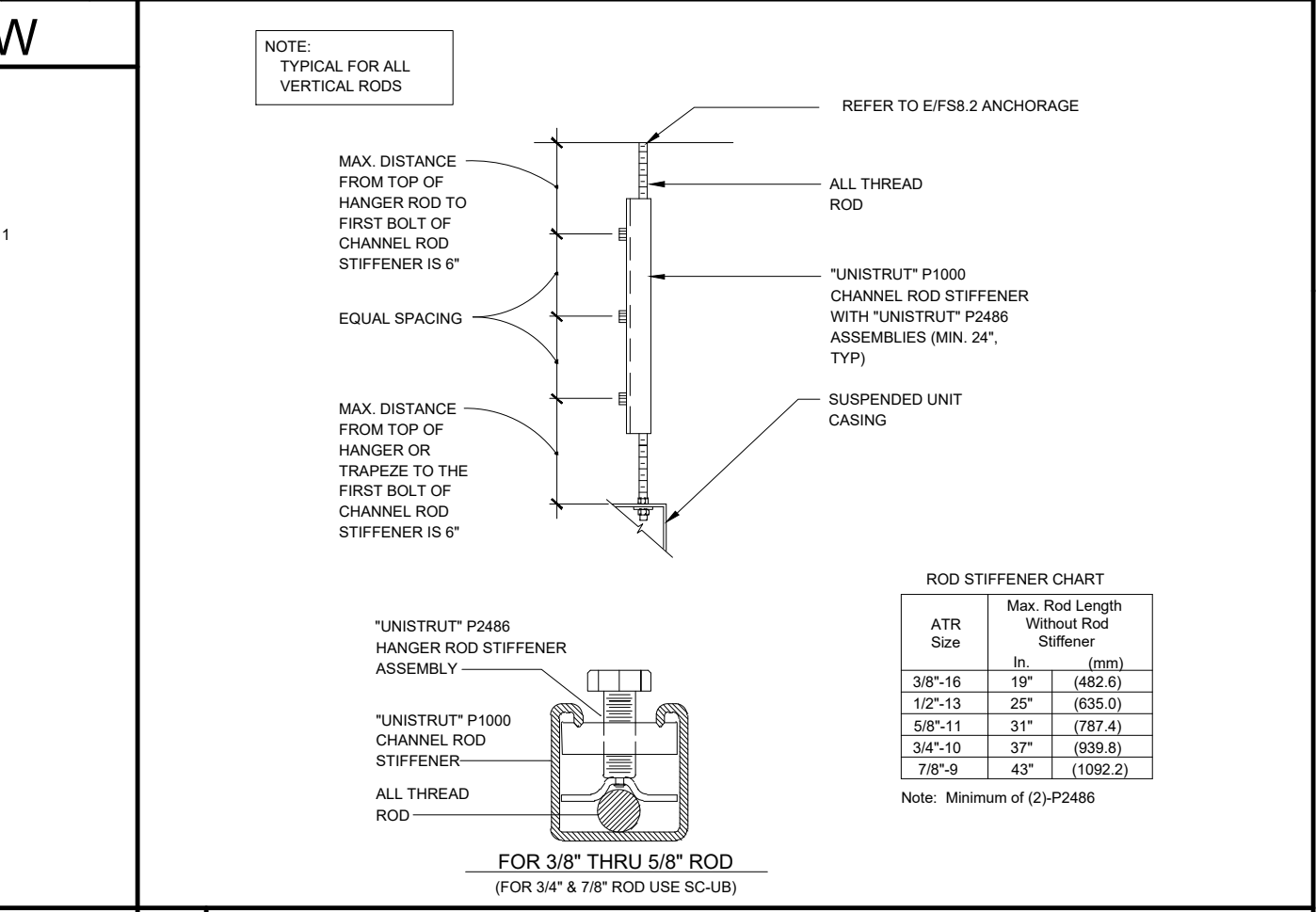
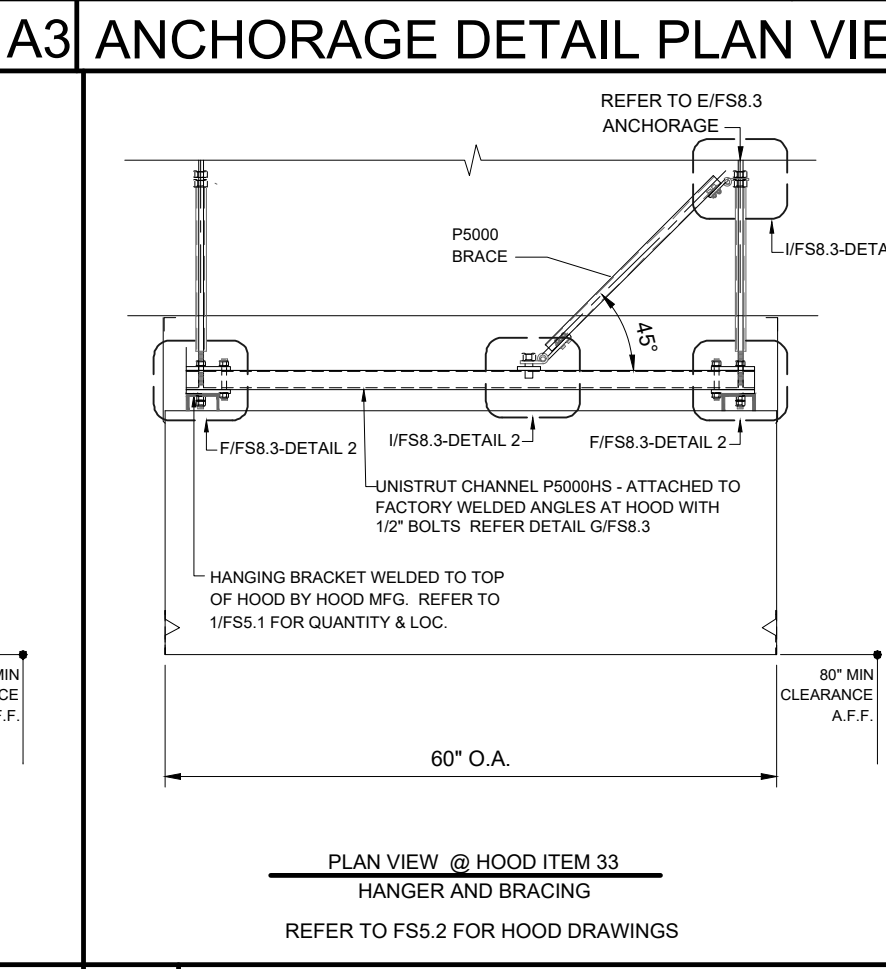
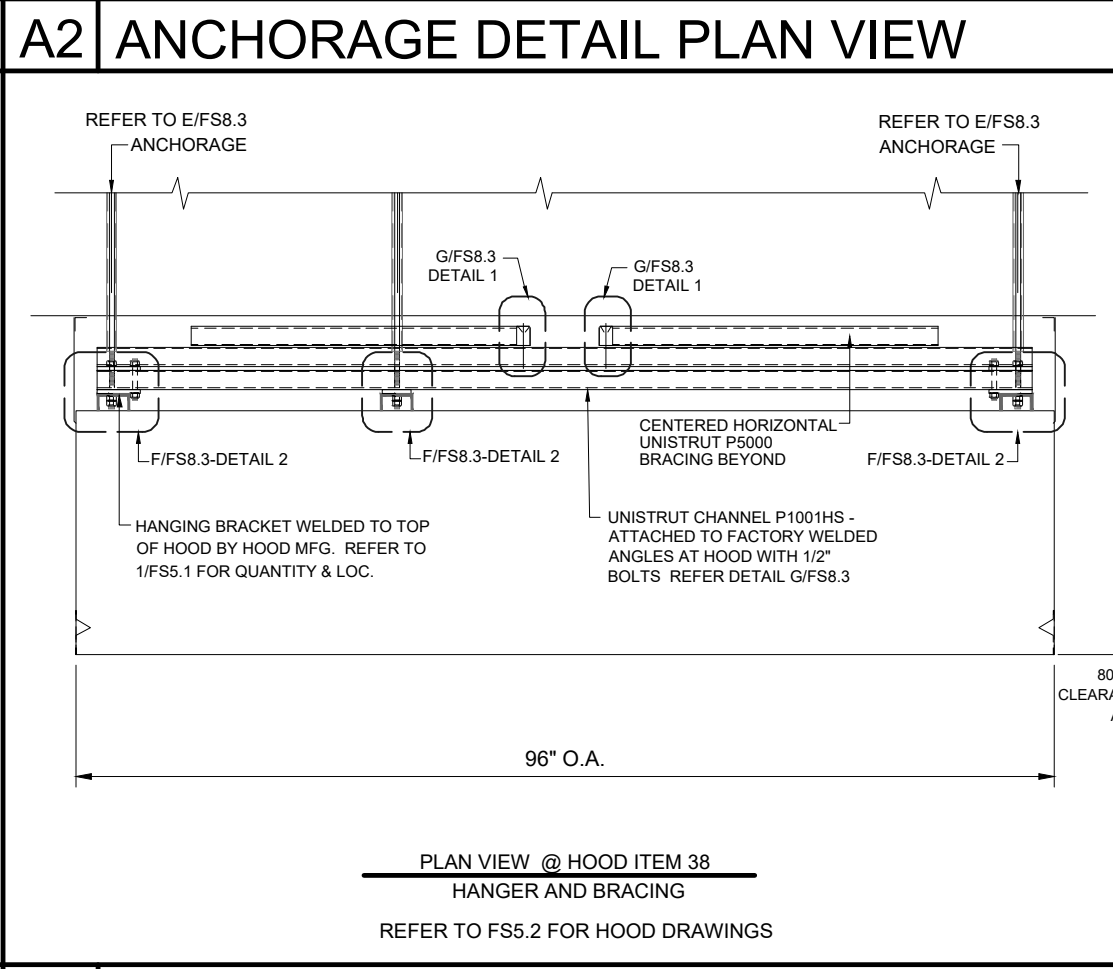
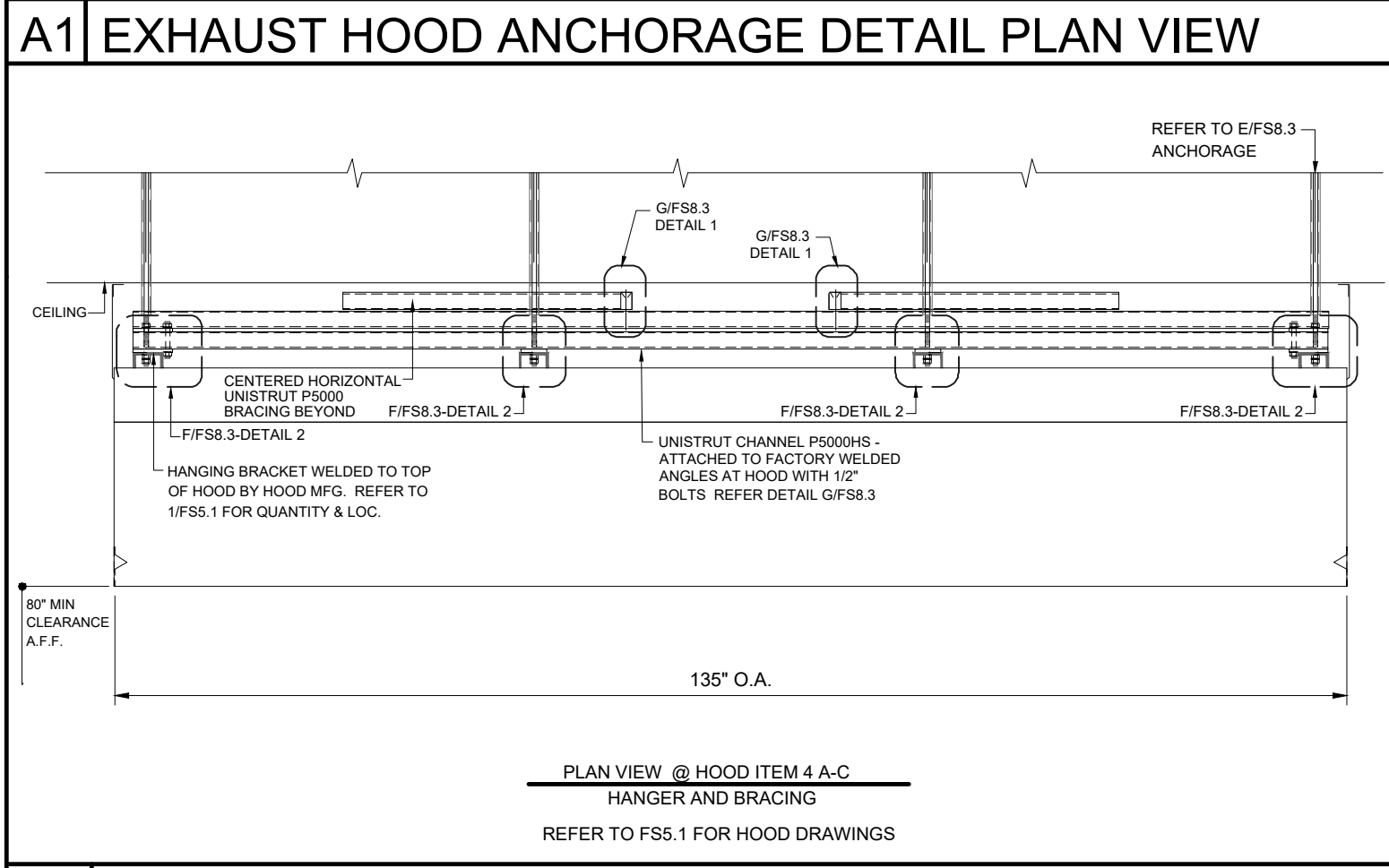
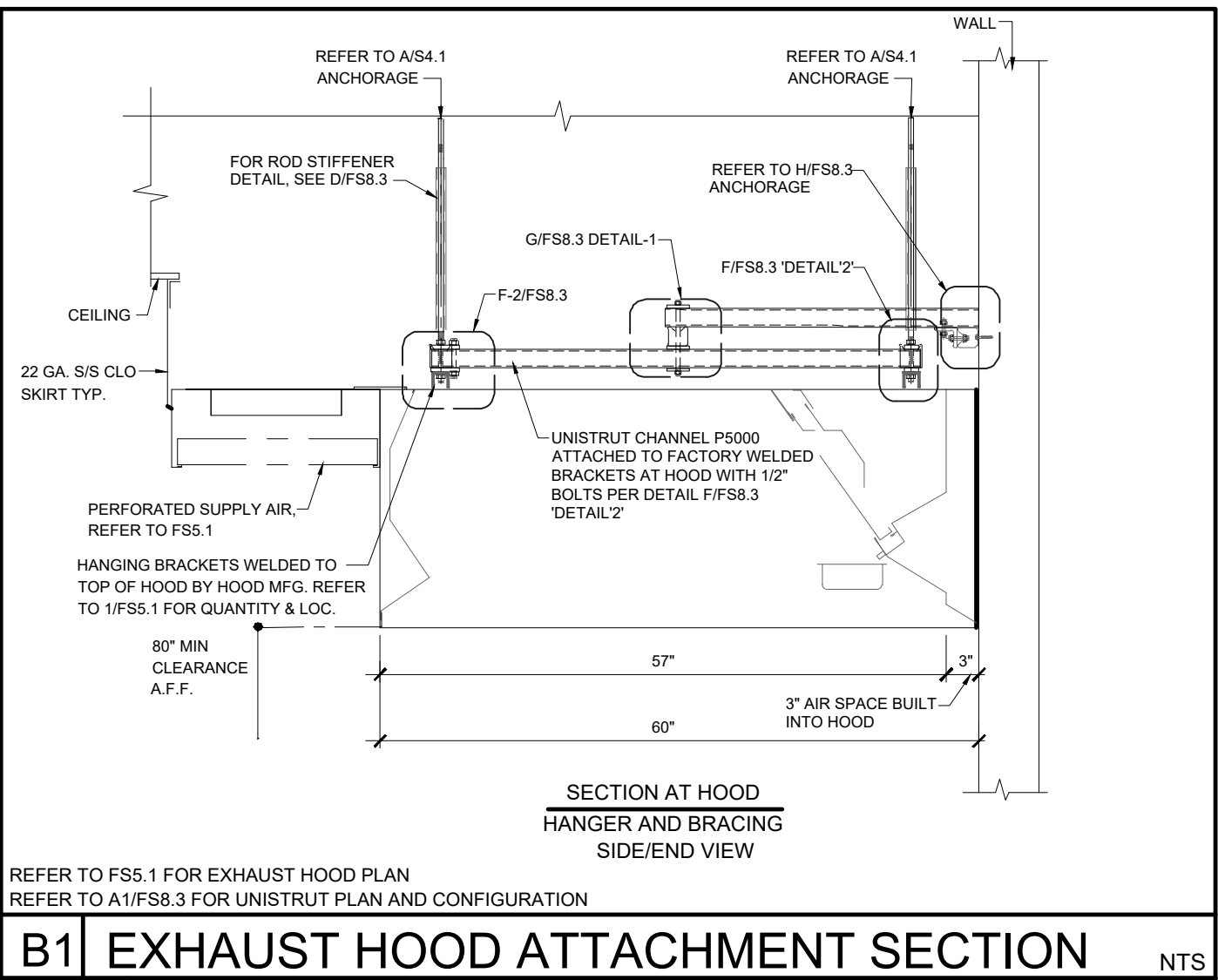
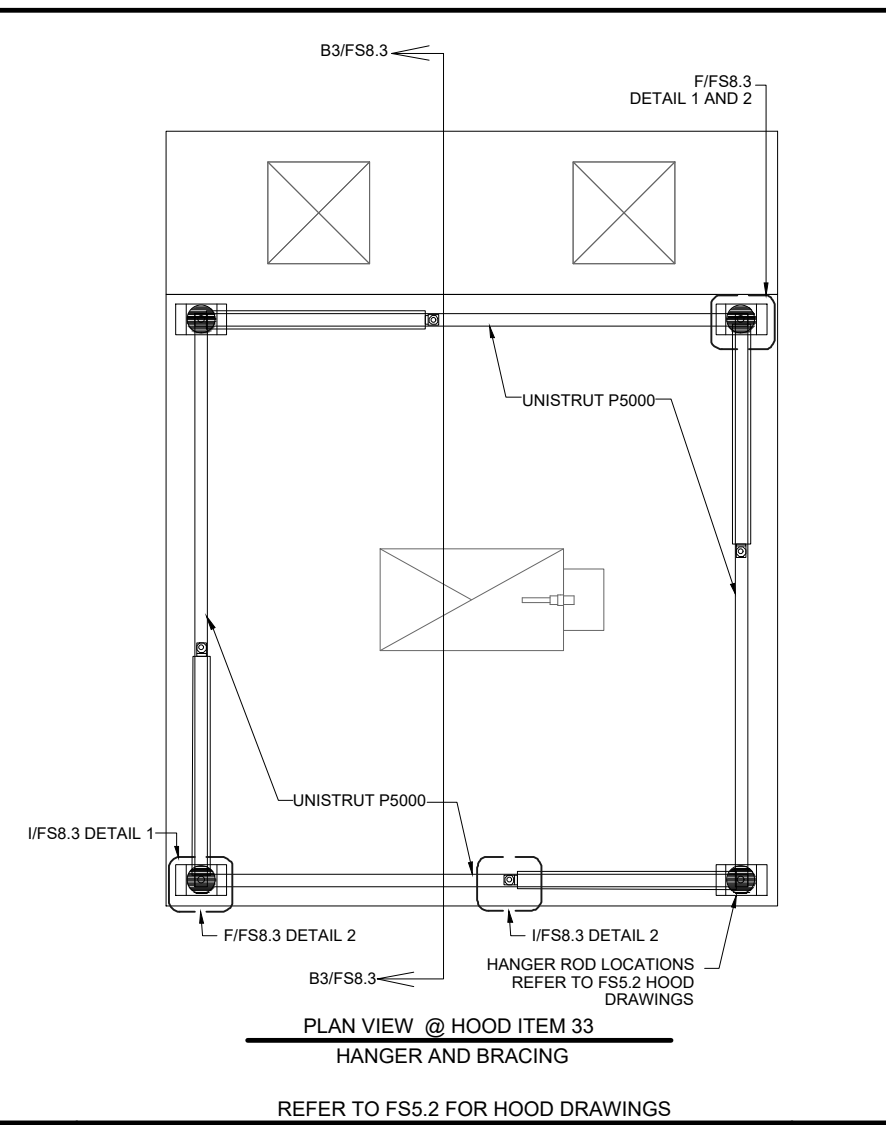
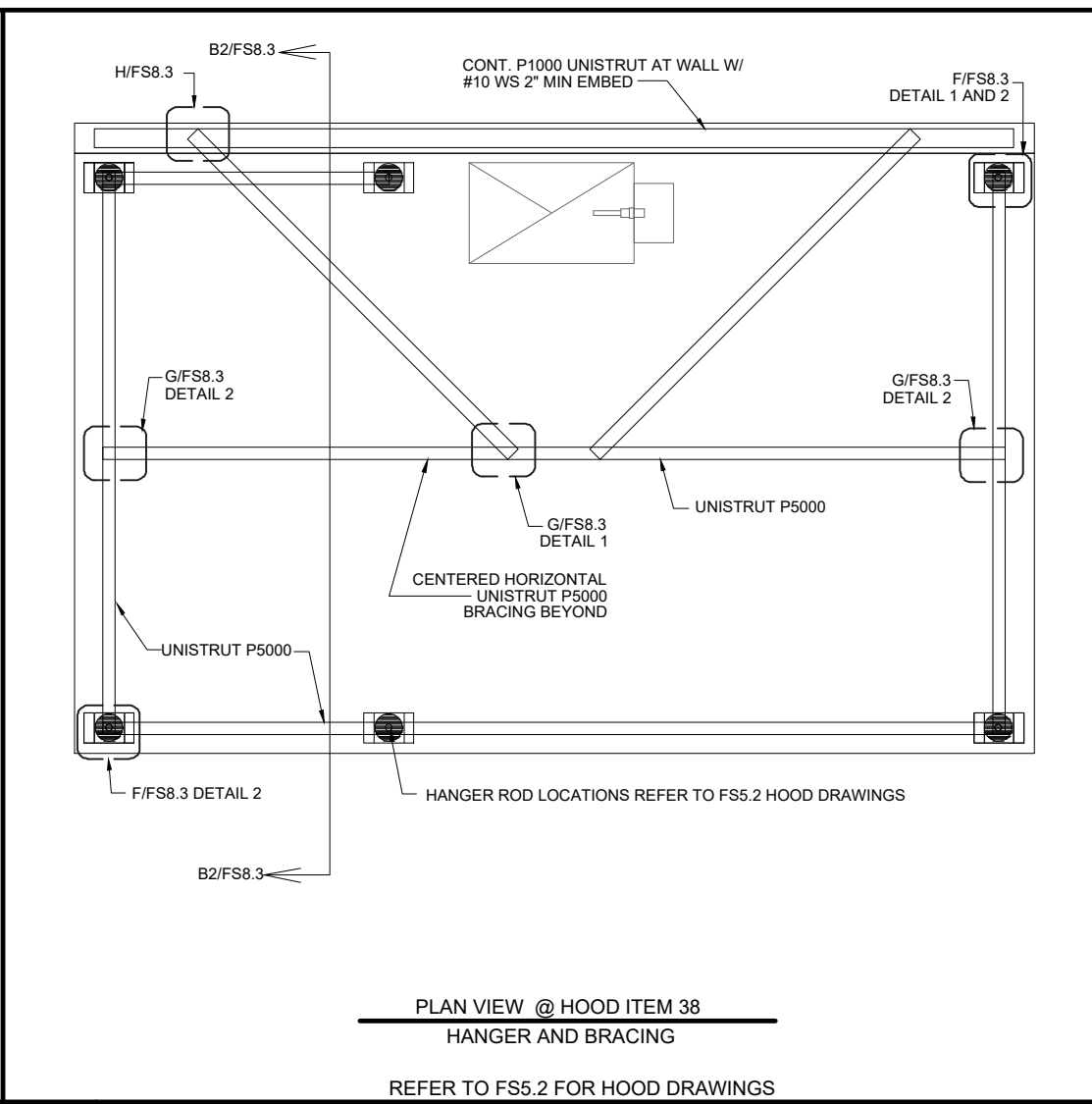
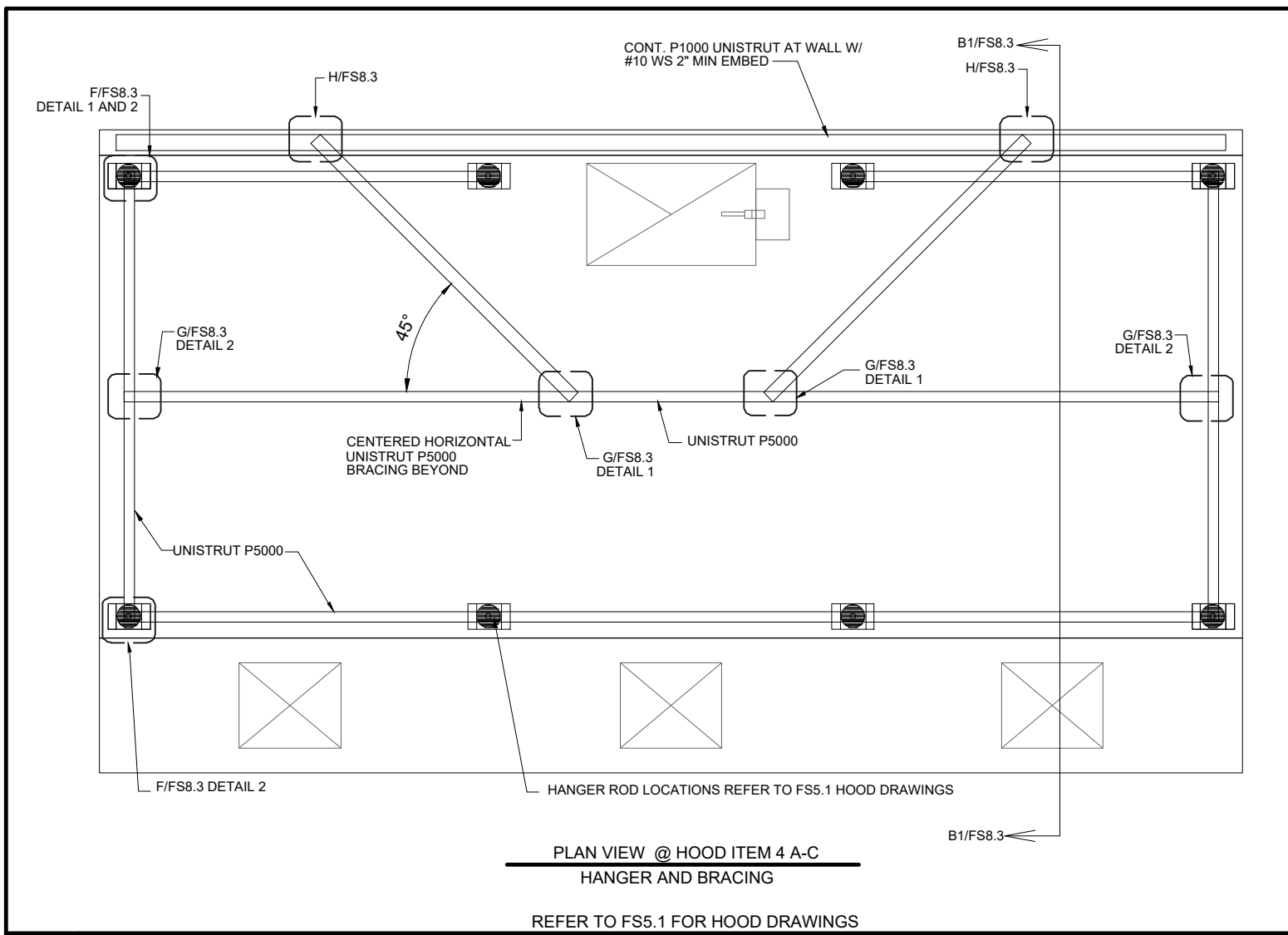


CULINARY LAB  
 VENTURE ACADEMY  
 FOODSERVICE EQUIPMENT  
 ANCHORAGE DETAILS



PROJECT NO.	REVISIONS	BY
23-34-026		
DATE		
07/06/2023		
DRAWN		
SLH		
CHECKED		
SLH		
SCALE		
CADFILE		
FS8.2.DWG		
UPDATED		

SHEET NO.  
**FS8.2**  
 OF 115 SHEETS



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 Fax: 916.921.2212

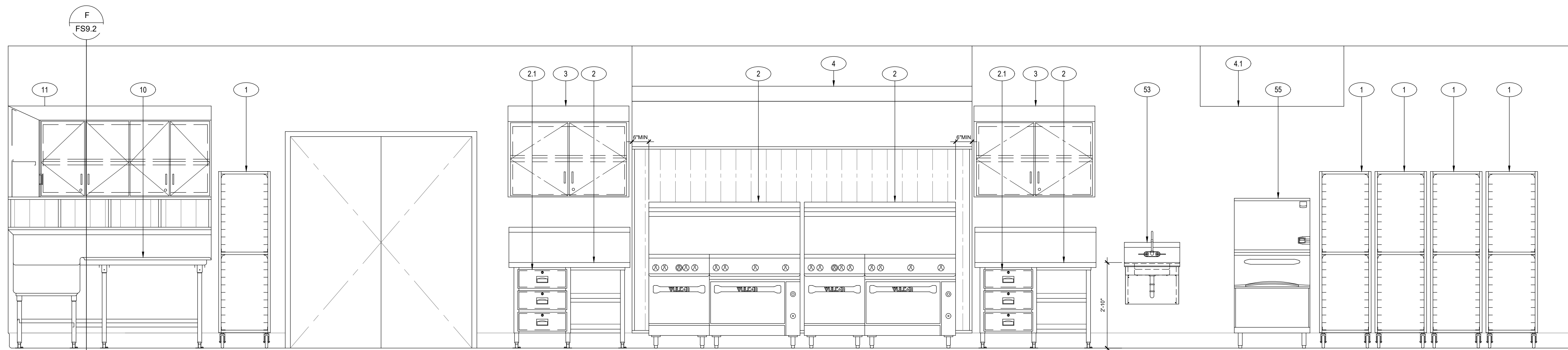


CULINARY LAB  
 VENTURE ACADEMY  
 FOODSERVICE EQUIPMENT  
 ANCHORAGE DETAILS



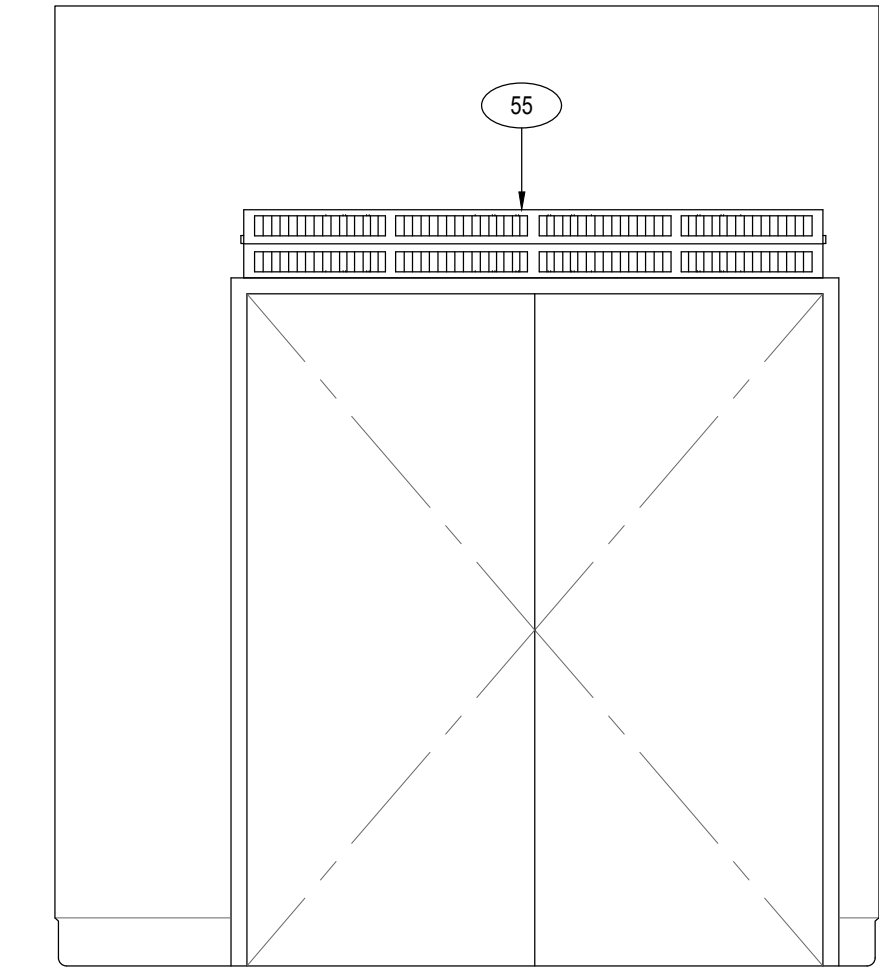
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UPDATED		
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**FS8.3**



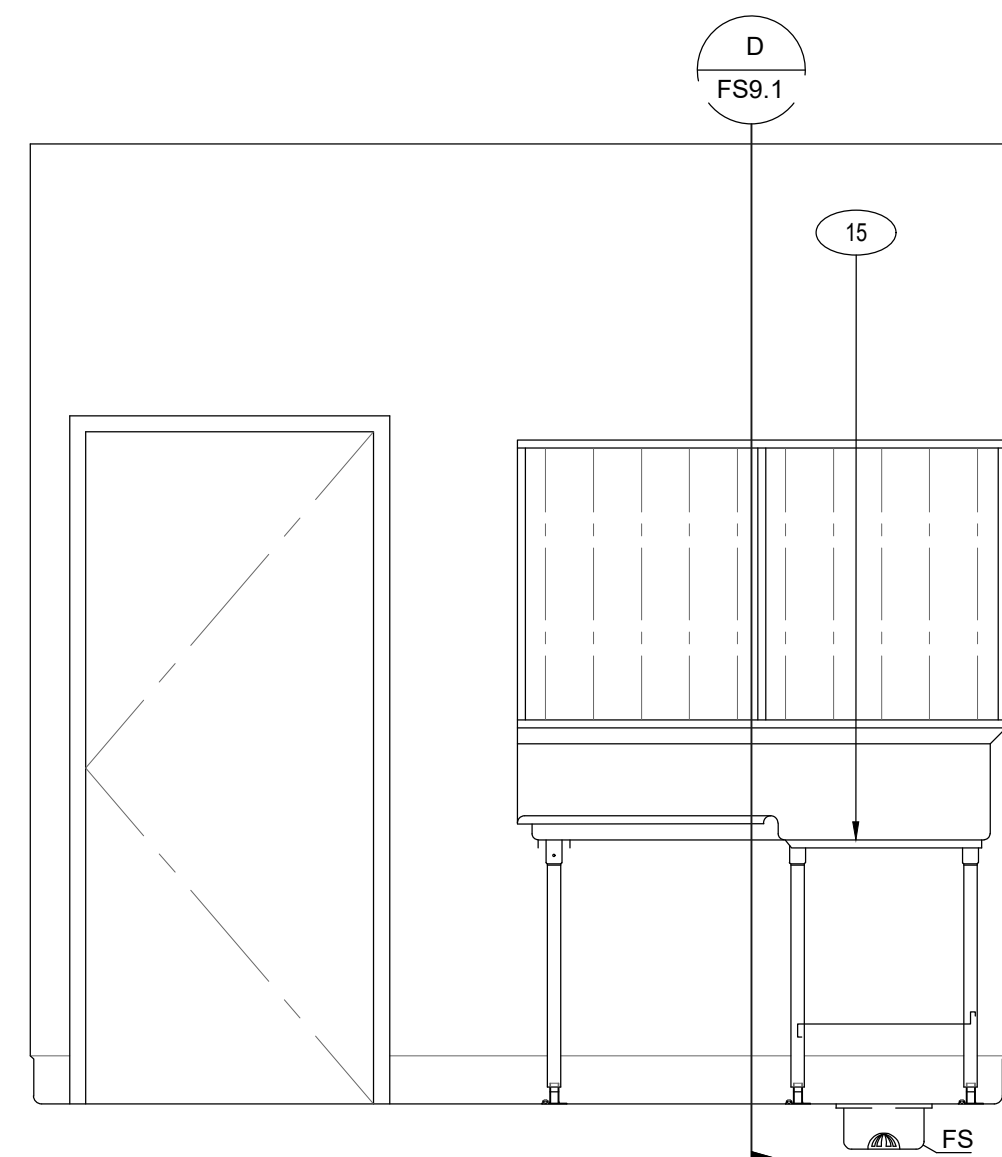
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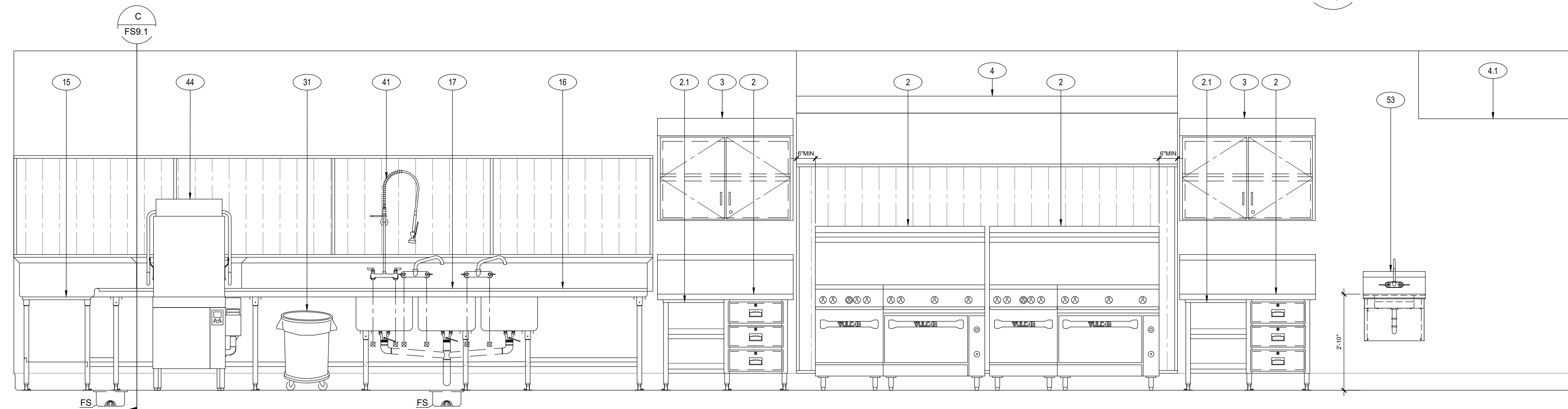
ELEVATION

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



ELEVATION

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



ELEVATION

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

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CULINARY LAB  
 VENTURE ACADEMY

FOODSERVICE EQUIPMENT  
 ELEVATIONS

CONSULTANT



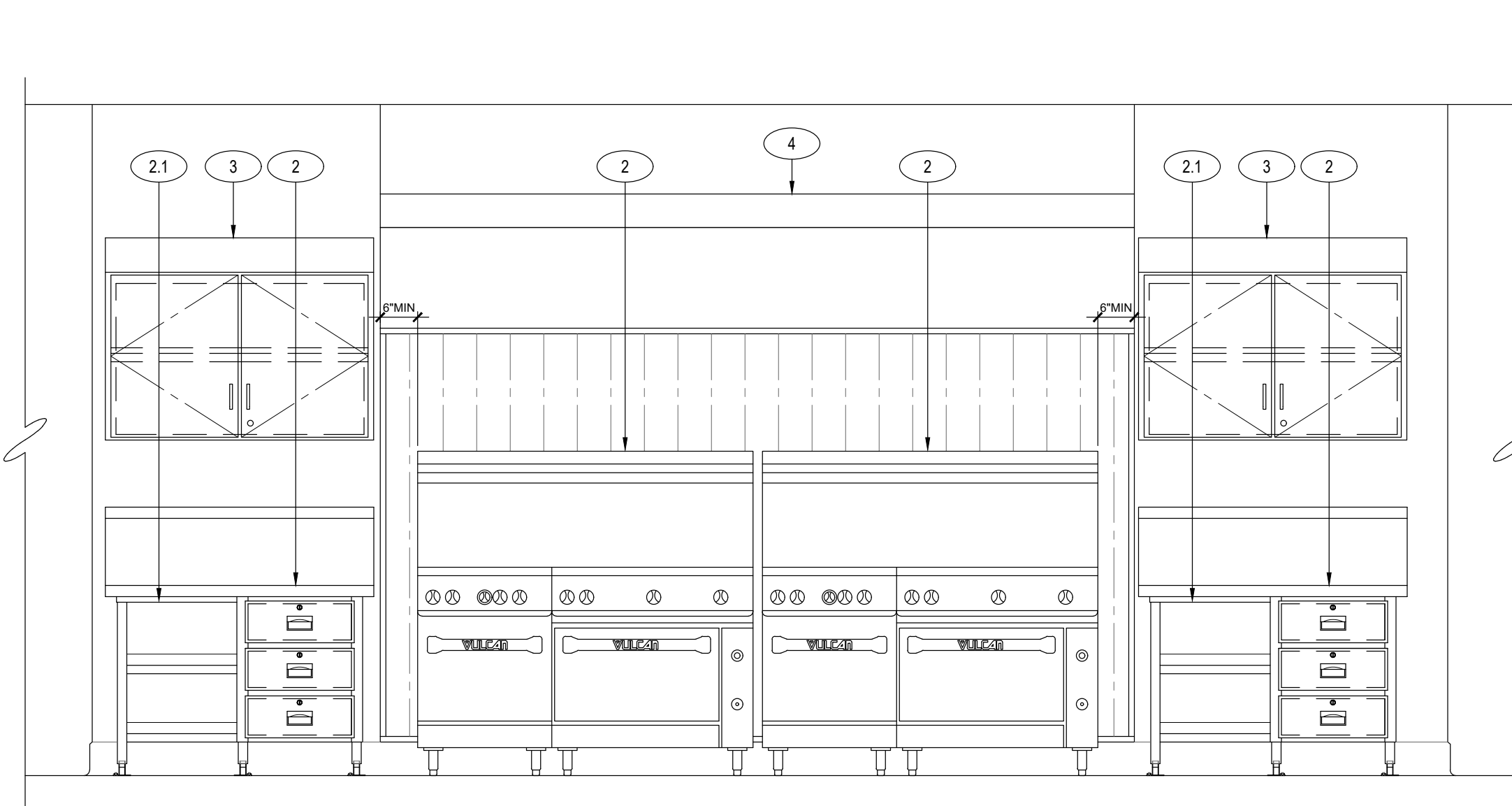
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23-34-026		
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07/06/2023		
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FS9.1.DWG		
UPDATED		

SHEET NO.

**FS9.1**

OF 115 SHEETS

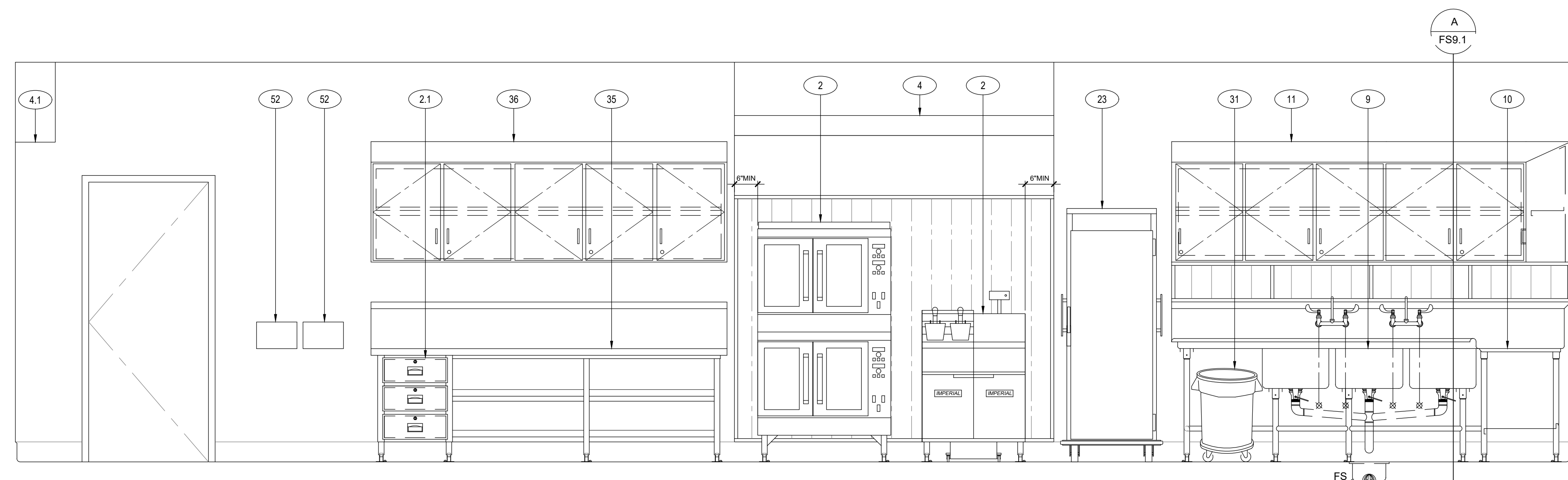
ELEVATION LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	ACCESSIBLE CLEARANCES AND SYMBOL 30"x27" MIN CLEARANCE		WATER CONNECTIONS REFER TO FS2.1 FOR CONNECTION TYPE
	SECTION VIEW REFER TO CALLED OUT VIEW		FLANGE FOOT ANCHORAGE REFER TO L/FS8.1 FOR DETAIL
			FLOOR SINK REFER TO FS2.1 FOR LOCATION
			ITEM NUMBER REFER TO FS1.1 FOR LOCATION



ELEVATION

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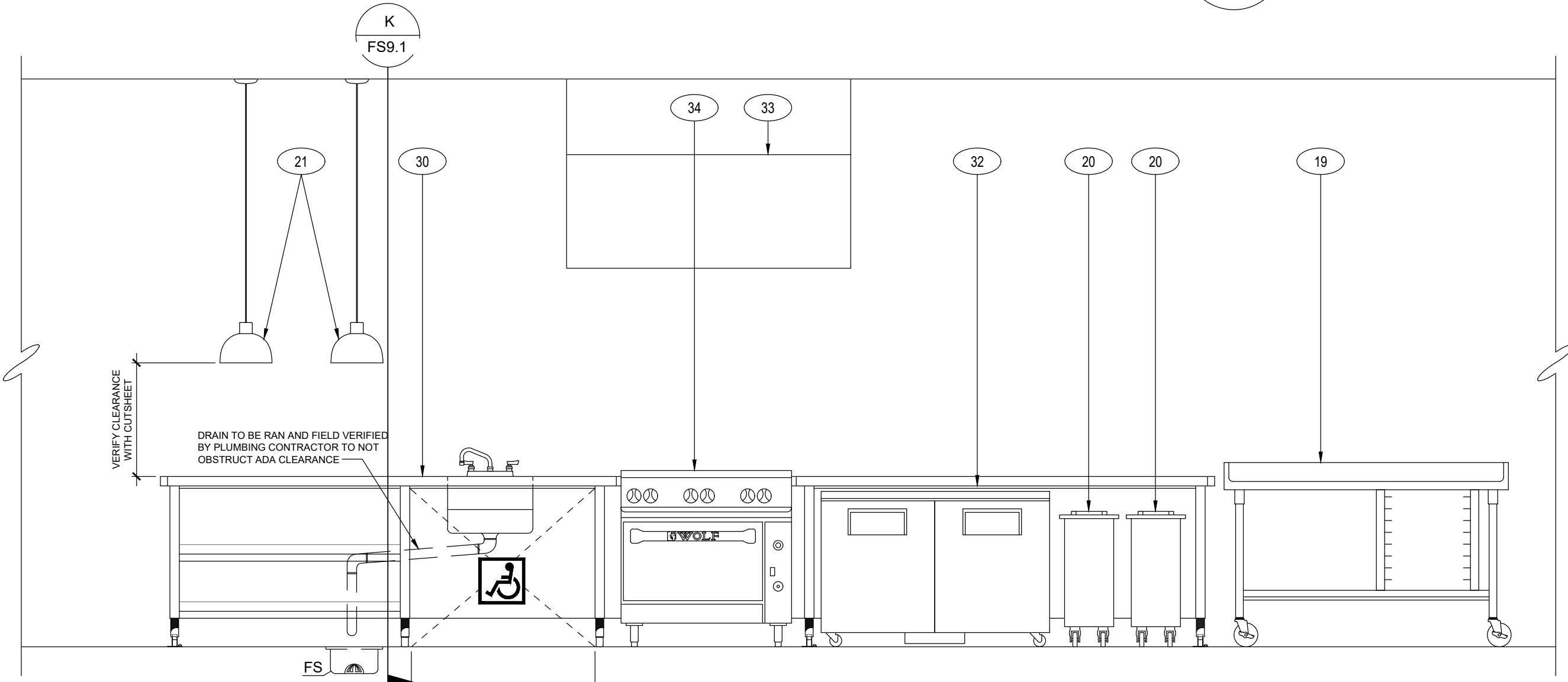
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ELEVATION

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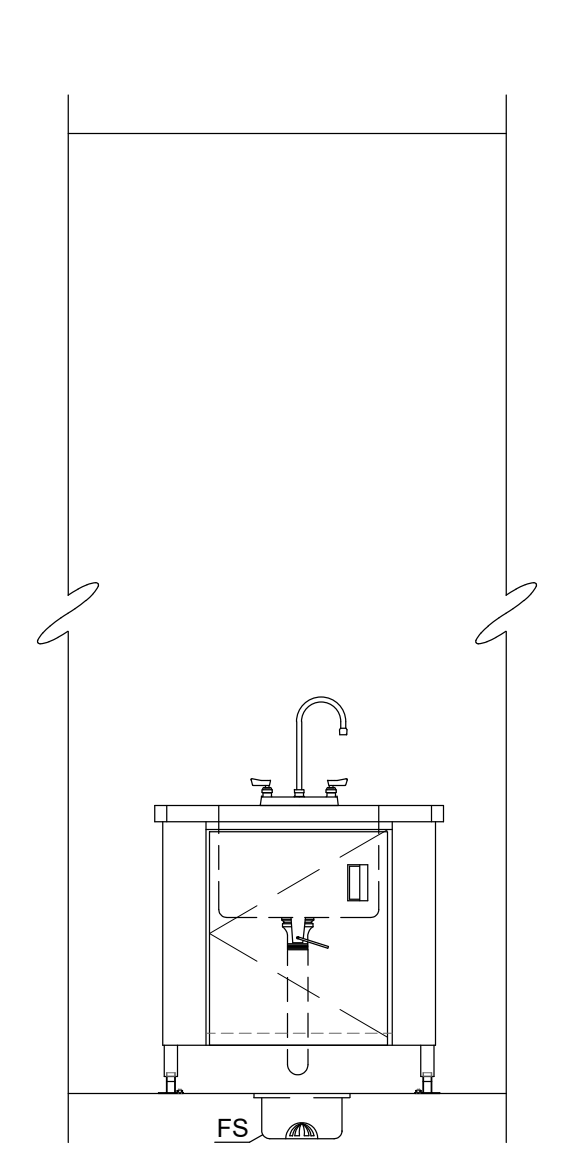
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FS9.2



ELEVATION

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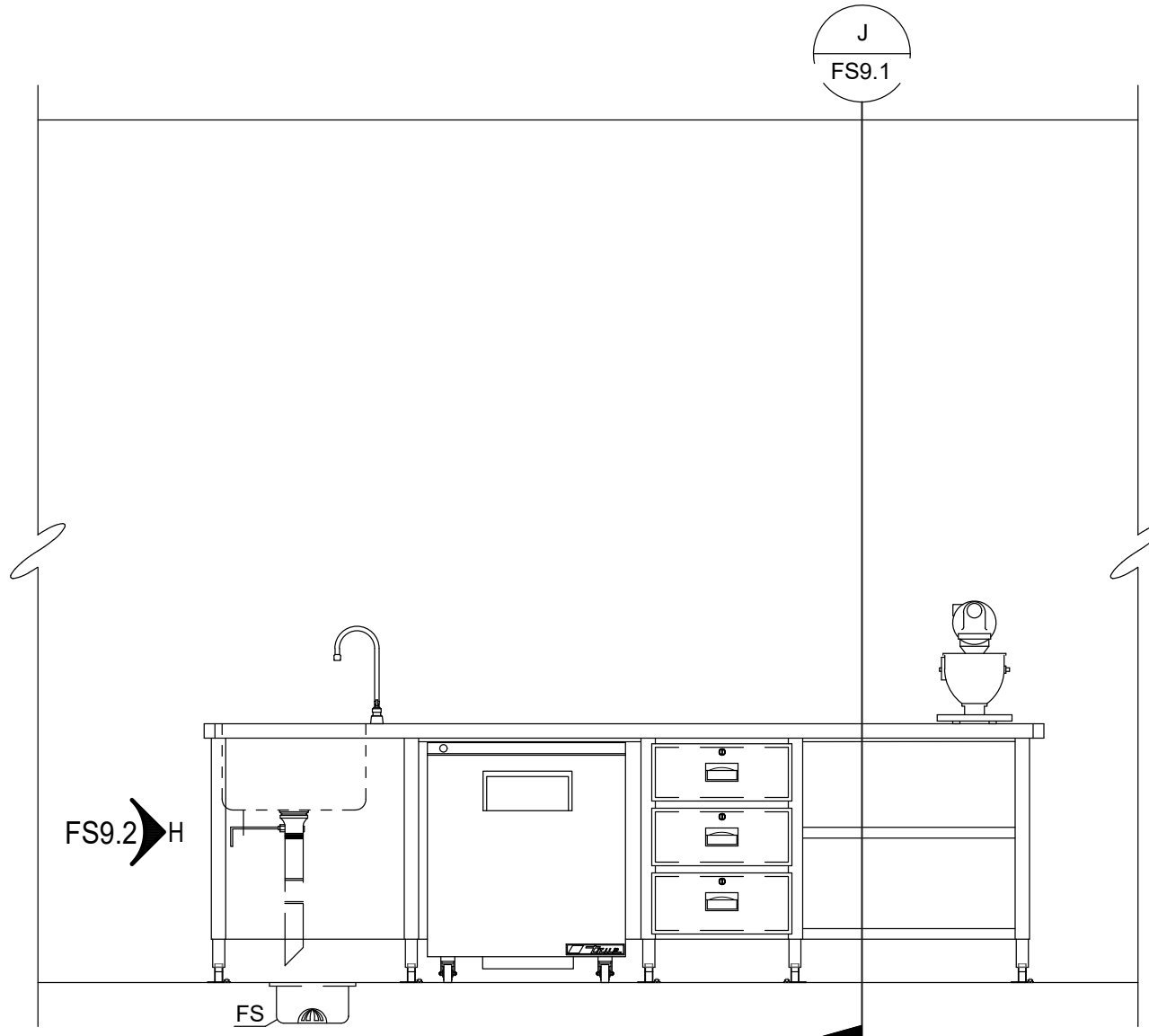
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ELEVATION

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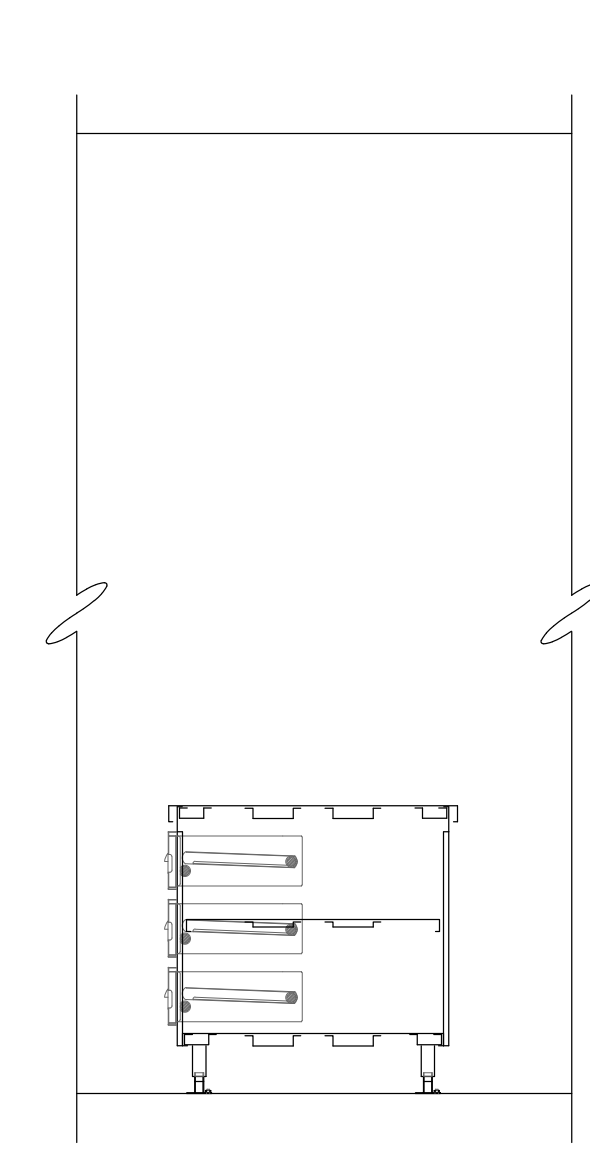
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ELEVATION

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

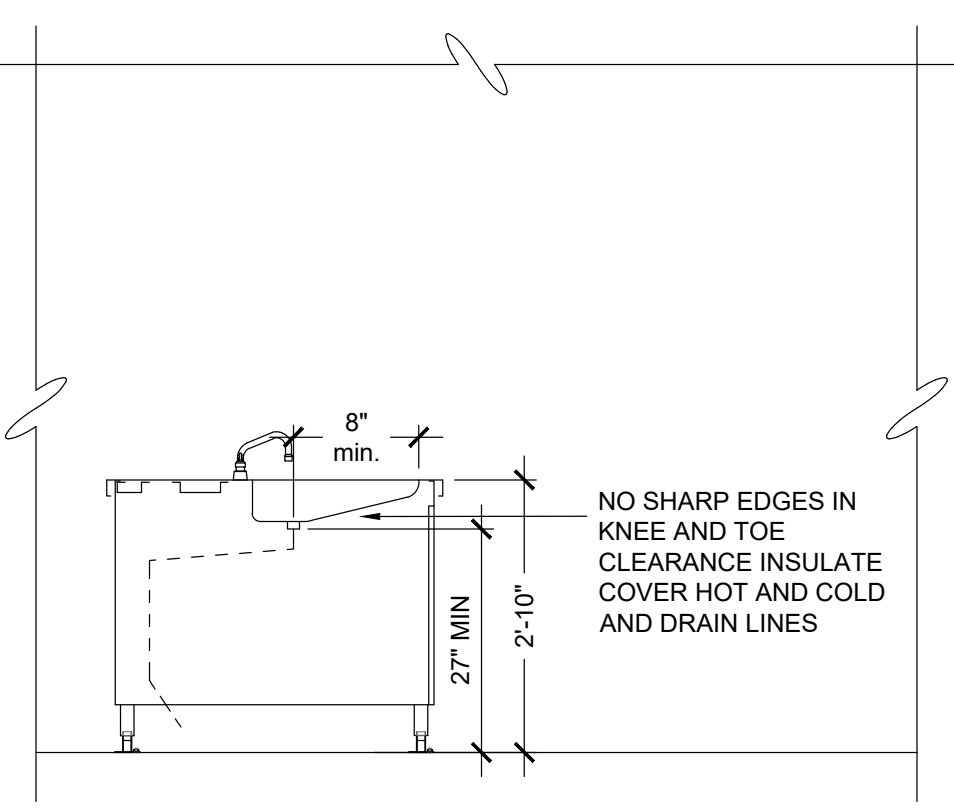
I  
FS9.2



ELEVATION

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

J  
FS9.2



ELEVATION

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

K  
FS9.2

ELEVATION LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	ACCESSIBLE CLEARANCES AND SYMBOL 30"x27" MIN CLEARANCE		WATER CONNECTIONS REFER TO FS2.1 FOR CONNECTION TYPE
	SECTION VIEW REFER TO CALLED OUT VIEW		FLANGE FOOT ANCHORAGE REFER TO L/FS8.1 FOR DETAIL
			FLOOR SINK REFER TO FS2.1 FOR LOCATION
			ITEM NUMBER REFER TO FS1.1 FOR LOCATION

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Fax: 916.921.2212



CULINARY LAB  
VENTURE ACADEMY

FOODSERVICE EQUIPMENT  
ELEVATIONS

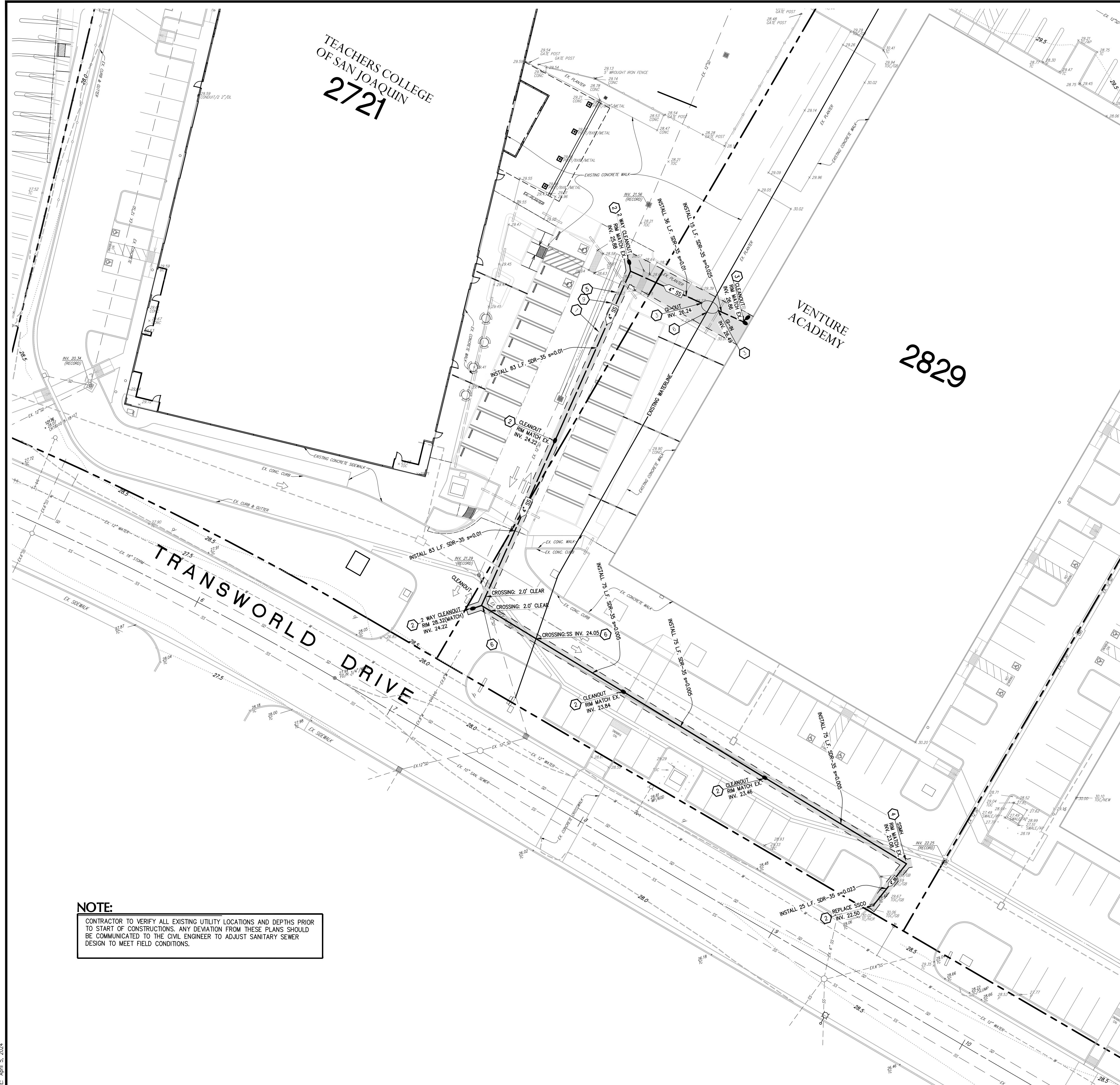
CONSULTANT



PROJECT NO.	REVISIONS	BY
23-34-026		
DATE		
07/06/2023		
DRAWN		
SLH		
CHECKED		
SLH		
SCALE		
CADFILE		
FS9.2.DWG		
UPDATED		

SHEET NO.

**FS9.2**



**NOTE:**  
 CONTRACTOR TO VERIFY ALL EXISTING UTILITY LOCATIONS AND DEPTHS PRIOR TO START OF CONSTRUCTIONS. ANY DEVIATION FROM THESE PLANS SHOULD BE COMMUNICATED TO THE CIVIL ENGINEER TO ADJUST SANITARY SEWER DESIGN TO MEET FIELD CONDITIONS.

**CONSTRUCTION NOTES:**

- 1 PAVEMENT SAWCUT LINE. LIMIT OF DEMOLITION. MINOR ADJUSTMENTS TO LINE LOCATION MAY BE MADE DUE TO ACTUAL FIELD CONDITIONS. REPLACE ASPHALT IN KIND.
- 2 CONSTRUCT "SANITARY SEWER CLEANOUT" PER DETAIL ON SHEET C2.
- 3 INSTALL A "GREASE INTERCEPTOR" PER DETAIL ON SHEET C2.
- 4 CONSTRUCT SANITARY SEWER MANHOLE PER DETAIL ON SHEET 2.
- 5 APPROXIMATELY 2070 SQUARE FEET TO BE DISTURBED. 50% RULE DOES NOT APPLY
- 6 EXISTING WATER LINE ELEVATION UNKNOWN. CONTRACTOR TO VERIFY NO LESS THE 2' CLEAR OF SANITARY SEWER LINE AT CROSSING. CONTRACTOR TO CONTACT CIVIL ENGINEER TO REDESIGN SLOPES AS NEEDED TO ACHIEVE MINIMUM CLEARANCE AT CROSSINGS. EXISTING WATER LINE TO BE REROUTED AS REQUIRED AT THE GREASE INTERCEPTOR CROSSING.
- 7 EXISTING WATER LINE ELEVATION ASSUMED TO BE WITHIN A STANDARD DEPTH OF 36"-48". CONTRACTOR TO VERIFY WATER LINE FLOW DEPTH IS NO GREATER THAN 4.0'. CONTRACTOR TO CONTACT CIVIL ENGINEER TO REDESIGN SLOPES AS NEEDED TO ACHIEVE MINIMUM CLEARANCE AT CROSSINGS.
- 8 CONTRACTOR TO VERIFY EXISTING UTILITY DEPTH PRIOR TO START OF CONSTRUCTIONS. ANY DEVIATION FROM THESE PLANS SHOULD BE COMMUNICATED TO THE CIVIL ENGINEER TO ADJUST SANITARY SEWER DESIGN TO MEET FIELD CONDITIONS.
- 9 APPROXIMATELY 1330 SQUARE FEET TO BE DISTURBED. 50% RULE DOES NOT APPLY

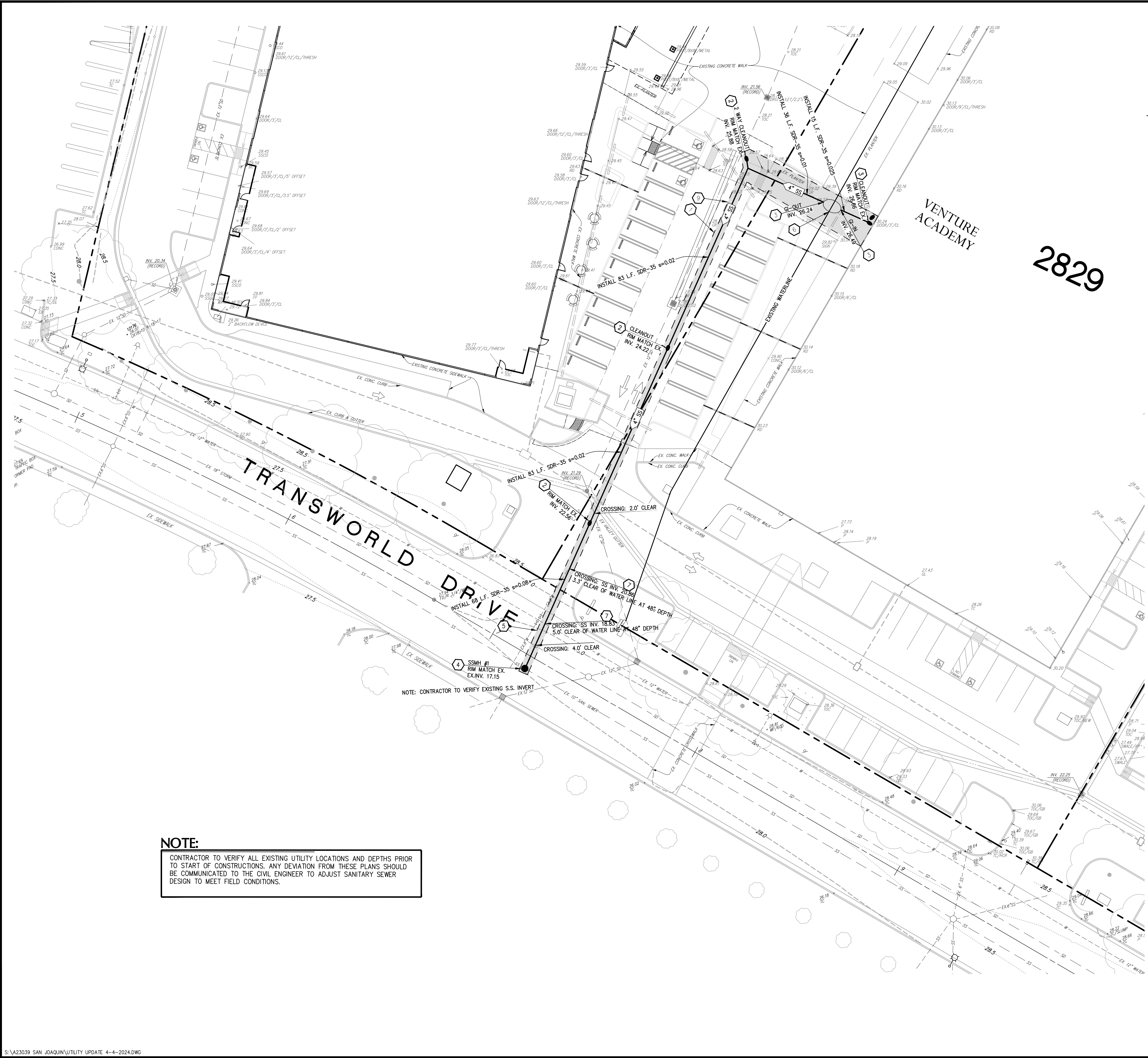
**ROBERT A. KARN & ASSOCIATES, INC.**  
 207 BECKMANN AVENUE  
 FAIRFIELD, CALIFORNIA 94533  
 Phone: (707) 435-9989  
 e-mail: rak@rakengineers.com  
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**SAN JOAQUIN COUNTY OFFICE OF EDUCATION**  
 STOCKTON, CALIFORNIA  
 FOR: SAN JOAQUIN COUNTY OFFICE OF EDUCATION

SCALE	1"=20'
DATE	4/9/2024
DRAWN	T.M.P.
CHECKED	T.M.P.
PROJ. MGR.	T.M.P.

DATE	BY	REVISIONS

SHEET NO.  
**C1**  
 OF 3 SHEETS  
 JOB NO.  
 A23039



**CONSTRUCTION NOTES:**

- 1 PAVEMENT SAWCUT LINE. LIMIT OF DEMOLITION. MINOR ADJUSTMENTS TO LINE LOCATION MAY BE MADE DUE TO ACTUAL FIELD CONDITIONS. REPLACE ASPHALT IN KIND.
- 2 CONSTRUCT "SANITARY SEWER CLEANOUT" PER DETAIL ON SHEET C2.
- 3 INSTALL A "GREASE INTERCEPTOR" PER DETAIL ON SHEET C2.
- 4 CONSTRUCT SANITARY SEWER MANHOLE PER DETAIL ON SHEET 2.
- 5 WORK OCCURRING IN THE PUBLIC RIGHT-OF-WAY WILL REQUIRE AN ENCROACHMENT PERMIT
- 6 EXISTING WATER LINE ELEVATION UNKNOWN. CONTRACTOR TO VERIFY NO LESS THE 2' CLEAR OF SANITARY SEWER LINE AT CROSSING. CONTRACTOR TO CONTACT CIVIL ENGINEER TO REDESIGN SLOPES AS NEEDED TO ACHIEVE MINIMUM CLEARANCE AT CROSSINGS. EXISTING WATER LINE TO BE REROUTED AS REQUIRED AT THE GREASE INTERCEPTOR CROSSING.
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**NOTE:**  
 CONTRACTOR TO VERIFY ALL EXISTING UTILITY LOCATIONS AND DEPTHS PRIOR TO START OF CONSTRUCTIONS. ANY DEVIATION FROM THESE PLANS SHOULD BE COMMUNICATED TO THE CIVIL ENGINEER TO ADJUST SANITARY SEWER DESIGN TO MEET FIELD CONDITIONS.

ROBERT A. KARN & ASSOCIATES, INC.  
 107 BECK AVENUE  
 FAIRFIELD, CALIFORNIA 94533  
 Phone: (707) 435-9989  
 e-mail: rak@rakengineers.com  
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CIVIL ENGINEERS

SAN JOAQUIN COUNTY OFFICE OF EDUCATION  
 STOCKTON, CALIFORNIA

FOR: SAN JOAQUIN COUNTY OFFICE OF EDUCATION

SCALE  
1"=20'

DATE  
4/9/2024

DRAWN  
T.M.P.

CHECKED  
T.M.P.

PROJ. MGR.  
T.M.P.

SHEET REVISIONS

DATE

BY

DATE

BY

SHEET NO.  
**C2**

OF 3 SHEETS

JOB NO.

A23039

## STANDARD GRADING NOTES

- GRADING SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS AND RECOMMENDATIONS CONTAINED IN THESE IMPROVEMENT PLANS.
  - THE CONTRACTOR SHALL BE RESPONSIBLE TO CONFIRM THE GROUND ELEVATIONS AND OVERALL TOPOGRAPHY OF THE SITE PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY ROBERT A. KARN & ASSOCIATES, INC. IMMEDIATELY, IN WRITING, OF ANY DIFFERENCES IN TOPOGRAPHY FROM THAT SHOWN ON THIS PLAN, WHICH MAY REQUIRE CHANGES IN DESIGN AND/OR AFFECT THE EARTHWORK QUANTITY.
  - EARTHWORK QUANTITIES WILL BE CALCULATED FROM EXISTING GROUND, BASED ON THE TOPOGRAPHY SHOWN, TO FINISHED GRADE BY THE CONTRACTOR. THE ACTUAL AMOUNT OF EARTH MOVED WILL VARY DEPENDING ON COMPACTION, CONSOLIDATION, STRIPPING AND THE CONTRACTOR'S METHOD OF OPERATION.
  - THE CONTRACTOR SHALL CALCULATE THE EARTHWORK QUANTITIES TO HIS SATISFACTION PRIOR TO THE START OF CONSTRUCTION, INCLUDING ALLOWANCE FOR SHRINKAGE, TRENCH SPOILS, STRIPPING, PRE-COMPACTION AND CONSOLIDATION. NO ADDITIONAL COMPENSATION WILL BE MADE FOR ANY EXPORT OR IMPORT REQUIRED.
  - CONTOUR INTERVAL 0.5 FEET.
- THE TOPOGRAPHY AND BOUNDARY ON THIS PLAN IS FROM A FIELD SURVEY PERFORMED BY ROBERT A. KARN & ASSOCIATES IN MAY 2016.
- THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNMENT ORDINANCES AND REGULATIONS RELATING TO THE WORK SHOWN ON THIS PLAN.

## PROJECT NOTES

- OWNER: SAN JOAQUIN COUNTY OFFICE OF EDUCATION  
2901 ARCH AIRPORT ROAD, CA  
STOCKTON, CALIFORNIA 95206  
(209) 521-1591
- ENGINEER: ROBERT A. KARN & ASSOCIATES, INC.  
707 BECK AVENUE  
FAIRFIELD, CALIFORNIA 94533  
(707) 435-9999
- A COMPLETE SET OF STAMPED APPROVED PLANS MUST BE ON THE JOB SITE.
- CONTRACTOR TO ARRANGE A PRE-CONSTRUCTION MEETING WITH THE OWNER OR THE OWNER'S REPRESENTATIVE AND THE OWNER'S ENGINEER, AND SOIL ENGINEERS BEFORE START OF CONSTRUCTION.
- ALL STAKING REQUESTS SHOULD BE DIRECTED TO THE ENGINEER A MINIMUM OF 2 WORKING DAYS PRIOR TO ACTUAL NEED. ANY ADDITIONAL STAKING OR RESTAKING WILL ONLY BE DONE AS DIRECTED AND AUTHORIZED BY THE OWNER OR HIS AUTHORIZED AGENT.
- THE CONTRACTOR SHALL NOT DESTROY ANY PERMANENT SURVEY POINTS WITHOUT THE CONSENT OF THE CITY ENGINEER. ANY PERMANENT MONUMENTS OR POINTS DESTROYED SHALL BE REPLACED BY A REGISTERED CIVIL ENGINEER OR LICENSED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING STREETS, SURROUNDING LANDSCAPE AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING, CURBS, GUTTERS, SIDEWALKS, GRADING, ETC. AND TO AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS OR HAZARDOUS CONDITIONS.
- ALL WORK SHALL BE DONE BETWEEN THE HOURS OF 7:00 A.M. TO 5:00 P.M. MONDAY THROUGH FRIDAY, AND NO CONSTRUCTION ACTIVITY WILL BE ALLOWED ON SATURDAY, SUNDAY OR FEDERAL HOLIDAYS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REQUIRED INSPECTIONS AND SHALL NOTIFY THE APPROPRIATE INDIVIDUAL OR AGENCY 2 WORKING DAYS PRIOR TO THE TIME THAT THE CONTRACTOR WISHES THE INSPECTION TO BE MADE.
- THESE PLANS AND SPECIFICATIONS, INCLUDING GRADES AND DRAINAGE ARE SUBJECT TO MODIFICATION DURING CONSTRUCTION SHOULD CONDITIONS APPEAR THAT WERE NOT APPARENT DURING DESIGN. ANY SUCH MODIFICATION SHALL BE APPROVED BY THE ENGINEER AND OWNER.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE LOCAL AGENCY ENGINEER.
- ALL BUILDING SETBACKS AND STREET IMPROVEMENTS SHALL BE IN CONFORMANCE WITH THE ZONING ORDINANCE AND STANDARD DETAILS AND SPECIFICATIONS OF THE CITY OF STOCKTON.
- ANY RELOCATION OF PUBLIC UTILITIES SHALL BE CONDUCTED IN ACCORDANCE WITH ANY AND ALL REQUIREMENTS OF THE UTILITY COMPANY AND INCLUDE FEES, BONDS, PERMITS AND WORKING CONDITIONS, ETC. THIS WORK SHALL BE DONE AT NO EXPENSE TO THE LOCAL AGENCIES. THE OWNER SHALL PAY THE COST OF ALL SAID FEES, BONDS, PERMITS, ETC.
- THE CONTRACTOR SHALL PROVIDE FOR INGRESS AND EGRESS FOR PRIVATE PROPERTY ADJACENT TO WORK THROUGHOUT THE PERIOD OF CONSTRUCTION.

## STANDARD GENERAL NOTES

- THE CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXEMPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE ENGINEER.
- EXCAVATIONS SHALL BE ADEQUATELY SHORED, BRACED AND SHEETED SO THAT THE EARTH WILL NOT SLIDE OR SETTLE AND SO THAT ALL EXISTING IMPROVEMENTS OF ANY KIND WILL BE FULLY PROTECTED FROM DAMAGE. ANY DAMAGE RESULTING FROM A LACK OF ADEQUATE SHORING, BRACING AND SHEETING, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND HE SHALL EFFECT NECESSARY REPAIRS OR RECONSTRUCTION AT HIS OWN EXPENSE. WHERE THE EXCAVATION FOR A CONDUIT TRENCH, AND/OR STRUCTURE IS FIVE FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL PROVIDE ADEQUATE SHEETING, SHORING AND BRACING OR EQUIVALENT METHOD, FOR THE PROTECTION OF LIFE, OR LIMB, WHICH SHALL CONFORM TO THE APPLICABLE CONSTRUCTION SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY OF THE STATE OF CALIFORNIA. THE CONTRACTOR SHALL ALWAYS COMPLY WITH OSHA REQUIREMENTS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN PERMITS NECESSARY TO PERFORM THE WORK SHOWN IN THESE PLANS FROM THE APPROPRIATE AGENCIES.
- THE CONTRACTOR SHALL TAKE EFFECTIVE ACTION TO PREVENT THE FORMATION OF AN AIRBORNE DUST NUISANCE AND SHALL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM HIS FAILURE TO DO SO.
- THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGGERS OR OTHER DEVICES NECESSARY TO PROVIDE FOR SAFETY.
- THE CONTRACTOR SHALL POST EMERGENCY TELEPHONE NUMBERS FOR POLICE, FIRE, AMBULANCE, AND THOSE AGENCIES RESPONSIBLE FOR MAINTENANCE OF UTILITIES IN THE VICINITY OF JOB SITE.
- ANY EXTRA CONSTRUCTION STAKING NECESSITATED SOLELY BY THE CONTRACTOR'S NEGLIGENCE WILL BE CHARGED TO THE CONTRACTOR ON A TIME AND EXPENSE BASIS, AND PAID FOR BY THE CONTRACTOR.
- LENGTHS OF SANITARY SEWERS AND STORM DRAINS ARE HORIZONTAL DISTANCES FROM CENTER TO CENTER OF STRUCTURES, ROUNDED OFF TO THE NEAREST FOOT.
- ALL QUANTITIES AND PAY ITEMS ARE AND WILL BE BASED ON HORIZONTAL MEASUREMENTS.
- EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AT LEAST TWO (2) WORKING DAYS IN ADVANCE OF CONSTRUCTION TO LOCATE FIELD UTILITIES. CALL UNDERGROUND SERVICE ALERT (U.S.A.), AT 800-642-2444. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS, INDICATED IN THE FIELD BY LOCATING SERVICES, OR EVIDENCED BY FACILITIES VISIBLE AT OR ADJACENT TO THE JOBSITE. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED AND MERGED IN THE CONTRACT UNIT PRICE.
- ALL EXISTING UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE LOCAL AGENCY ENGINEER, AT THE CONTRACTOR'S SOLE EXPENSE.
- ANY RELOCATION OF PUBLIC UTILITIES SHALL BE CONDUCTED IN ACCORDANCE WITH ANY AND ALL REQUIREMENTS OF THE UTILITY COMPANY, INCLUDING FEES, BONDS, PERMITS AND WORKING CONDITIONS, ETC. THIS WORK SHALL BE DONE AT NO EXPENSE TO THE LOCAL AGENCIES. THE OWNER SHALL PAY THE COST OF ALL SUCH RELOCATION WORK INCLUDING FEES, BONDS, PERMITS, ETC.
- IF ARCHAEOLOGICAL MATERIALS ARE UNCOVERED DURING GRADING, TRENCHING OR OTHER EXCAVATION, EARTHWORK WITHIN 100 FEET OF THESE MATERIALS SHALL BE STOPPED UNTIL A PROFESSIONAL ARCHAEOLOGIST WHO IS CERTIFIED BY THE SOCIETY OF CALIFORNIA ARCHAEOLOGY (SCA) AND/OR THE SOCIETY OF PROFESSIONAL ARCHAEOLOGY (SOPA) HAS HAD AN OPPORTUNITY TO EVALUATE THE SIGNIFICANCE OF THE FIND AND SUGGEST APPROPRIATE MITIGATION MEASURES, IF THEY ARE DEEMED NECESSARY.
- ROBERT A. KARN & ASSOCIATES, INC. DOES NOT SPECIFY NOR RECOMMEND THE USE OR INSTALLATION OF ANY MATERIAL OR EQUIPMENT WHICH IS MADE FROM, OR WHICH CONTAINS ASBESTOS FOR USE IN THE CONSTRUCTION OF THESE IMPROVEMENTS. ANY PARTY INSTALLING OR USING SUCH MATERIALS OR EQUIPMENT SHALL BE SOLELY RESPONSIBLE FOR ALL INJURIES, DAMAGES, OR LIABILITIES, OF ANY KIND, CAUSED BY THE USE OF SUCH MATERIALS OR EQUIPMENT. THE PROVISIONS OF THIS NOTE SHALL APPLY UNLESS THEY ARE EXPRESSLY WAIVED IN WRITING BY ROBERT A. KARN & ASSOCIATES, INC.
- THE CONTRACTOR SHALL MEET AND FOLLOW ALL NPDES REQUIREMENTS IN EFFECT AT THE TIME OF CONSTRUCTION.
- SHOULD IT APPEAR THAT THE WORK TO BE DONE OR ANY MATTER RELATIVE THERETO IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT ROBERT A. KARN & ASSOCIATES, INC., AT (707) 435-9999 FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.

## CONSTRUCTION NOTES:

### GENERAL NOTES

- AGGREGATE BASE SHALL BE CLASS 2 AND SHALL CONFORM TO THE LATEST VERSION OF SECTION 26 OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION SECTION 26-1.02B. ASPHALT CONCRETE SHALL BE TYPE "B" AND SHALL CONFORM TO THE LATEST VERSION OF SECTION 39 OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED IN THE GEOTECHNICAL REPORT.
- MANHOLES, WATER VALVE BOXES, AND CLEAN-OUT FRAMES AND COVERS SHALL BE BROUGHT TO FINISHED GRADE BY THE CONTRACTOR AFTER PAVING IS COMPLETED.
- ALL TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH CITY STANDARDS, AND IN COMPLIANCE WITH THE GEOTECHNICAL REPORT. COMPACTION SHALL BE ACHIEVED BY MECHANICAL MEANS. NO FLOODING, PONDING OR JETTING SHALL BE PERMITTED.
- PRIOR TO TRENCHING FOR ANY SEWER, WATER, OR STORM DRAIN PIPE, THE CONTRACTOR SHALL VERIFY, IN THE FIELD, THE SIZE AND LOCATION OF THE EXISTING PIPE AT THE POINT OF CONNECTION. ANY DEVIATION FROM THE PLANS SHALL BE RESOLVED BY THE DESIGN ENGINEER PRIOR TO TRENCHING.
- EXISTING CURB AND SIDEWALK THAT ARE DAMAGED OR DISPLACED, EVEN THOUGH THEY WERE NOT TO BE REMOVED, SHALL BE REPAIRED OR REPLACED AT NO COST TO OWNER.

### SANITARY SEWER

- SANITARY SEWERS AND APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF STOCKTON DESIGN STANDARDS AND SPECIFICATIONS.
- MANHOLE FRAMES AND COVERS SHALL BE BROUGHT TO FINISH GRADE AFTER PAVING.
- BACKFILL/TRENCHING FOR SANITARY SEWERS SHALL BE PER CITY OF STOCKTON STANDARD SPECIFICATIONS.
- SANITARY SEWER PIPE TO BE P.V.C. ASTM D3034, SDR-35 OR APPROVED EQUAL.

### DEMOLITION

- CONTRACTOR SHALL REMOVE WASTE MATERIALS FROM SITE RESULTING FROM CLEARING AND DEMOLITION OPERATIONS.

### CONSTRUCTION TRAFFIC CONTROL

- NO CONSTRUCTION WORK WILL COMMENCE UNTIL ALL CONSTRUCTION SIGNING IS IN PLACE.
- CONSTRUCTION SIGNING SHALL BE IN ACCORDANCE WITH THE STATE OF CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2014). THE CONTRACTOR SHALL DESIGNATE THE LOCATION OF ALL CONSTRUCTION SIGNS AND DEVICES TO BE USED ON THIS PROJECT, SUBJECT TO REVIEW AND APPROVAL OF THE CITY ENGINEER.
- ALL CONSTRUCTION SIGNS AND DEVICES SHALL BE REFLECTORIZED AND PROVIDED BY THE CONTRACTOR. CONTRACTOR SHALL ERRECT AND MAINTAIN SAID SIGNS FOR THE LENGTH OF THE CONTRACT. ALL SIGNS TO BE MOUNTED ON 4-INCH BY 4-INCH POSTS WITH WOOD BLOCK, ZINC COATED 4-INCH LAG SCREWS AND WASHERS. MINIMUM EMBEDMENT OF POST SHALL BE 3 FEET - 6 INCHES INTO SOIL. BOTTOM OF SIGN SHALL BE 7 FEET ABOVE CENTERLINE OF ROAD GRADE. SIGNS SHALL NOT BE PLYWOOD.
- CONTRACTOR SHALL ALSO PROVIDE ANY ADDITIONAL CONSTRUCTION TRAFFIC CONTROL NECESSARY. THIS MAY INCLUDE TEMPORARY TRAVEL LANE TAPE DELINEATORS, AND TEMPORARY SIGNING FOR ALL PERMANENT SIGNS REMOVED.
- COMPETENT FLAGGERS AND NECESSARY SIGNING SHALL BE USED WHEN:
  - TWO-WAY TRAFFIC MUST USE A SINGLE LANE, OR
  - EQUIPMENT IS WORKING ON OR IMMEDIATELY ADJACENT TO TRAVELED ROADWAY.
- ONLY PLYWOOD, METAL OR CANVAS SHALL BE USED AS A SIGN COVER. SIGN COVER SHALL BE PLACED TO COVER THE ENTIRE SIGN MESSAGE THAT IS TEMPORARILY NOT APPLICABLE.

## EROSION CONTROL NOTES:

- FOR MINOR EQUIPMENT MAINTENANCE, DRIP PANS AND DRIP CLOTHS WILL BE USED AND PROPERLY DISPOSED OF IF IT IS NECESSARY TO DRAIN AND REPLACE FLUIDS ON SITE.
- ON SITE VEHICLES AND EQUIPMENT WILL BE INSPECTED REGULARLY FOR LEAKS, AND, IF NECESSARY, WILL BE REPAIRED IMMEDIATELY.
- IF THERE ARE ANY CONFLICTS BETWEEN CASQA Bmps AND PROJECT CONTRACT DOCUMENT REQUIREMENTS, FOLLOW PROJECT CONTRACT DOCUMENT REQUIREMENTS.
- SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
- TEMPORARY EROSION CONTROL DEVICES SHOWN ON THE GRADING PLAN WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED AND WHEN THE INSPECTOR SO DIRECTS AS THE WORK PROGRESSES.
- ALL LOOSE SOIL AND DEBRIS SHALL BE REMOVED FROM THE STREET AREAS UPON STARTING OPERATIONS AND PERIODICALLY THEREAFTER AS DIRECTED BY THE INSPECTOR.
- DEBRIS AND SILT SHALL BE REMOVED FROM BASINS WITHIN 24 HOURS AFTER EACH STORM.
- ALL STORM DRAINS SHOWN ON THE ROUGH GRADING PLAN SHALL BE INSTALLED BY OCTOBER 15 OF THE YEAR.
- THE EROSION AND SEDIMENT CONTROL MEASURES WILL BE OPERABLE DURING THE RAINY SEASON OCTOBER 15 TO APRIL 15.
- CHANGES TO THIS EROSION AND SEDIMENT CONTROL PLANS TO MEET FIELD CONDITIONS WILL BE MADE ONLY WITH THE APPROVAL OF OR AT THE DIRECTION OF THE DEPARTMENT OF PUBLIC WORKS.
- DURING THE RAINY SEASON, ALL PAVED AREAS WILL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE WILL BE MAINTAINED SO THAT THE MINIMUM OF SEDIMENT-LADEN RUNOFF ENTERS THE STORM DRAINAGE SYSTEM.
- AS STORM DRAIN IMPROVEMENTS ARE CONSTRUCTED, ALL STRUCTURES AND INLET PIPES SHALL BE PROTECTED FROM INFLOW OF SILT BY SILT BARRIERS PER DETAILS.
- CONTRACTOR SHALL HAVE TOOLS, EQUIPMENT, AND MATERIALS TO PROVIDE EROSION CONTROL MEASURES MADE NECESSARY BY A CONSTRUCTION OPERATION, ON THE JOB SITE BEFORE BEGINNING THAT OPERATION.
- ADJACENT PROPERTIES SHALL BE PROTECTED FROM STORM WATERS, MUD, SILT, ETC.
- THE CONTRACTOR SHALL PLACE DRAIN ROCK AS A GRAVEL ROADWAY (9" MINIMUM THICK FOR 30 FEET IN WIDTH AND 100 FEET IN LENGTH) AT EACH ENTRANCE TO SITE. ANY MUD THAT IS TRACKED ONTO PUBLIC STREETS SHALL BE REMOVED THAT SAME DAY AS REQUIRED BY THE CITY.
- THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS MAY BE MADE TO THE PLAN IN THE FIELD SUBJECT TO THE APPROVAL OF THE CITY INSPECTOR.

### NOTE:

CONTRACTOR IS RESPONSIBLE FOR PREPARING SWPPP, EROSION CONTROL PLAN AND NOTICE OF INTENT. CONTRACTOR TO OBTAIN WQID NUMBER.

### ALT 2:

SWPPP, EROSION CONTROL PLAN AND WQID NUMBER TO BE PROVIDED BY OWNER. CONTRACTOR RESPONSIBLE FOR QSP SERVICES IN EITHER CASE.

**SEWER DESIGN**  
**GENERAL NOTES**  
**SAN JOAQUIN COUNTY OFFICE OF EDUCATION**  
**STOCKTON, CALIFORNIA**  
**FOR: SAN JOAQUIN COUNTY OFFICE OF EDUCATION**

SCALE	DATE	DATE	DATE
N/S	2/21/2024		
BY	CHK		
DRAWN	CHECKED	PROJ. MGR.	T.W.P.

DATE	DATE	DATE	DATE

DATE	DATE	DATE	DATE

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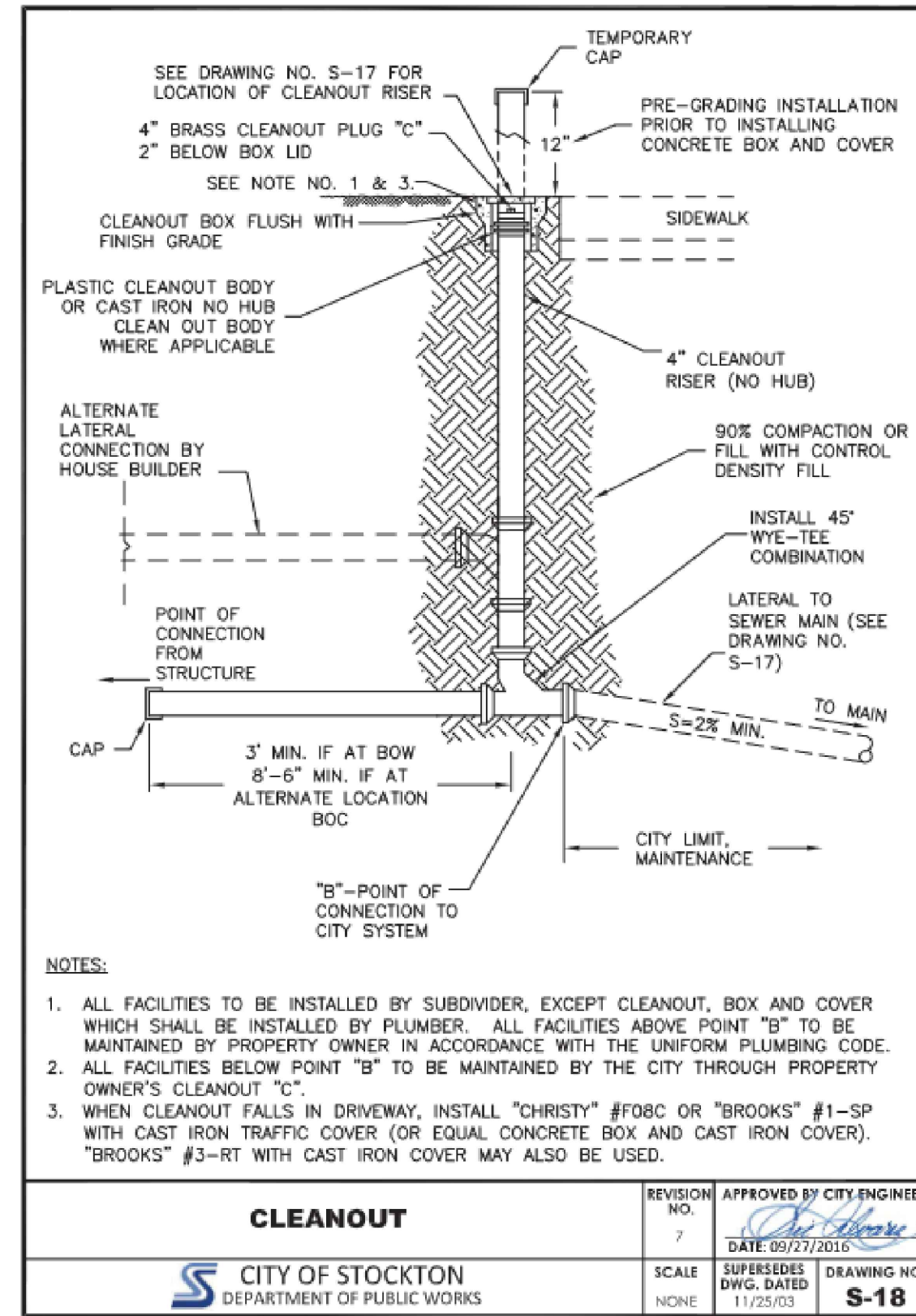
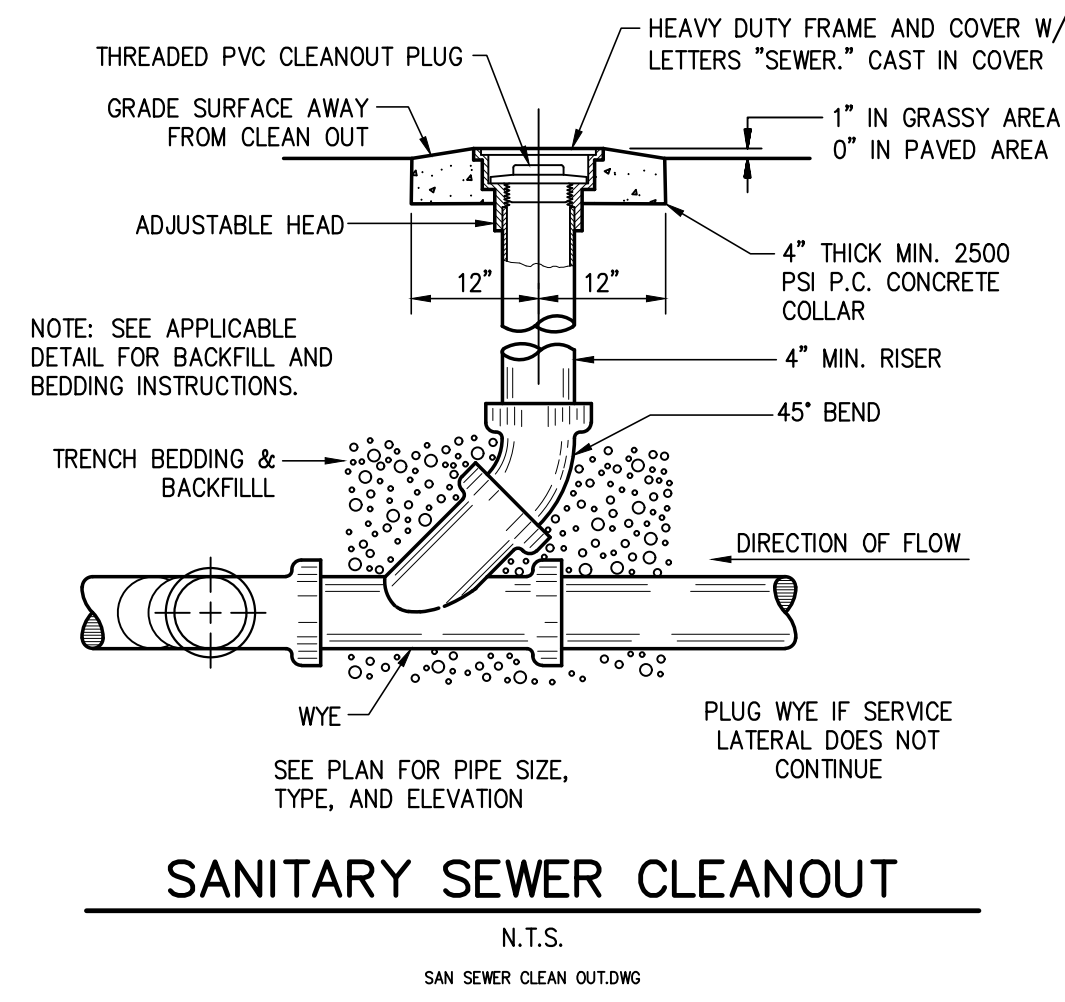
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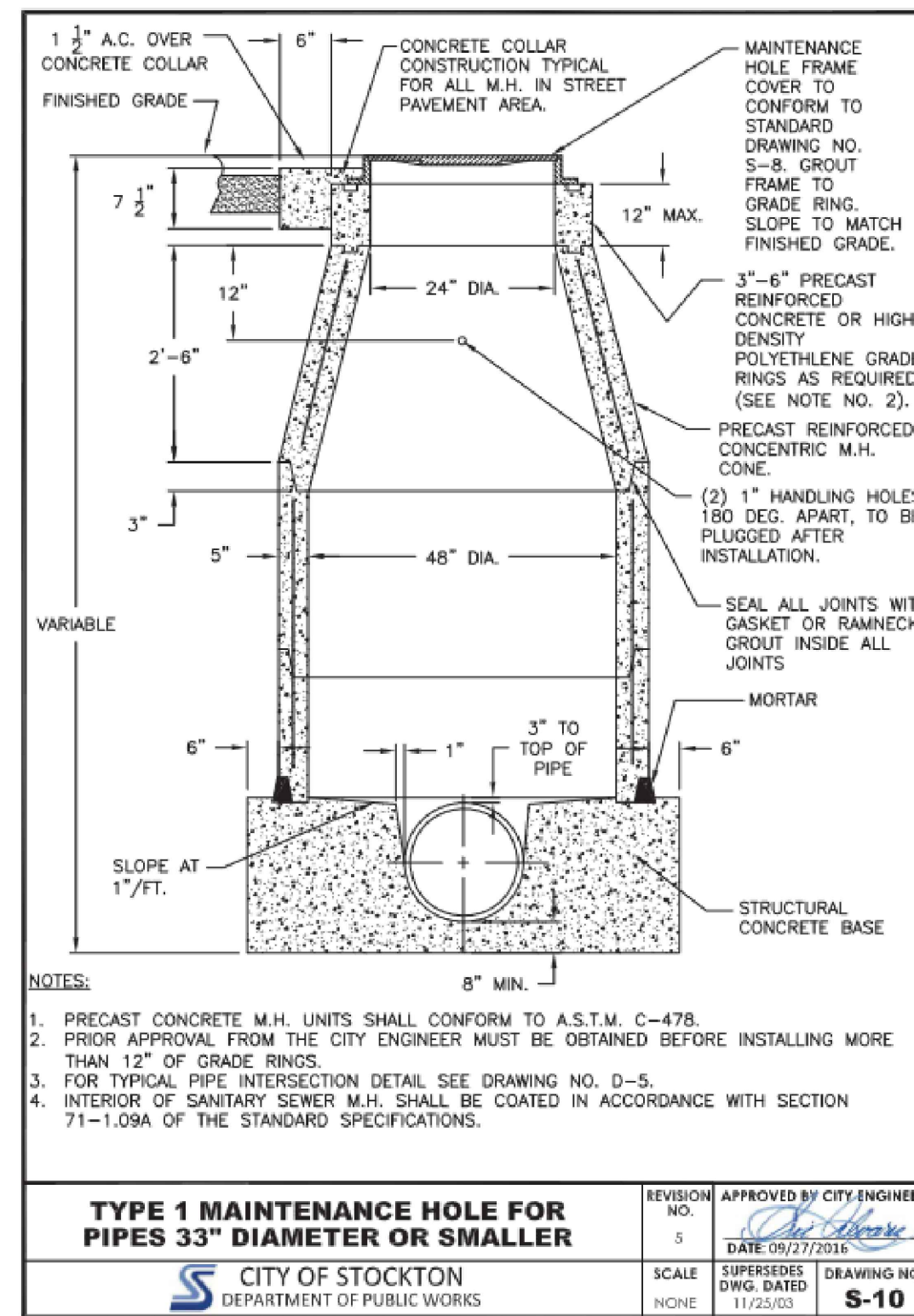
SHEET NO.  
**C3**  
 OF 4 SHEETS  
 JOB NO.  
 A23039

ROBERT A. KARN & ASSOCIATES, INC.  
 707 BECK AVENUE  
 FAIRFIELD, CALIFORNIA 94533  
 Phone: (707) 435-9999  
 e-mail: rak@rakengineers.com  
 CIVIL ENGINEERS  
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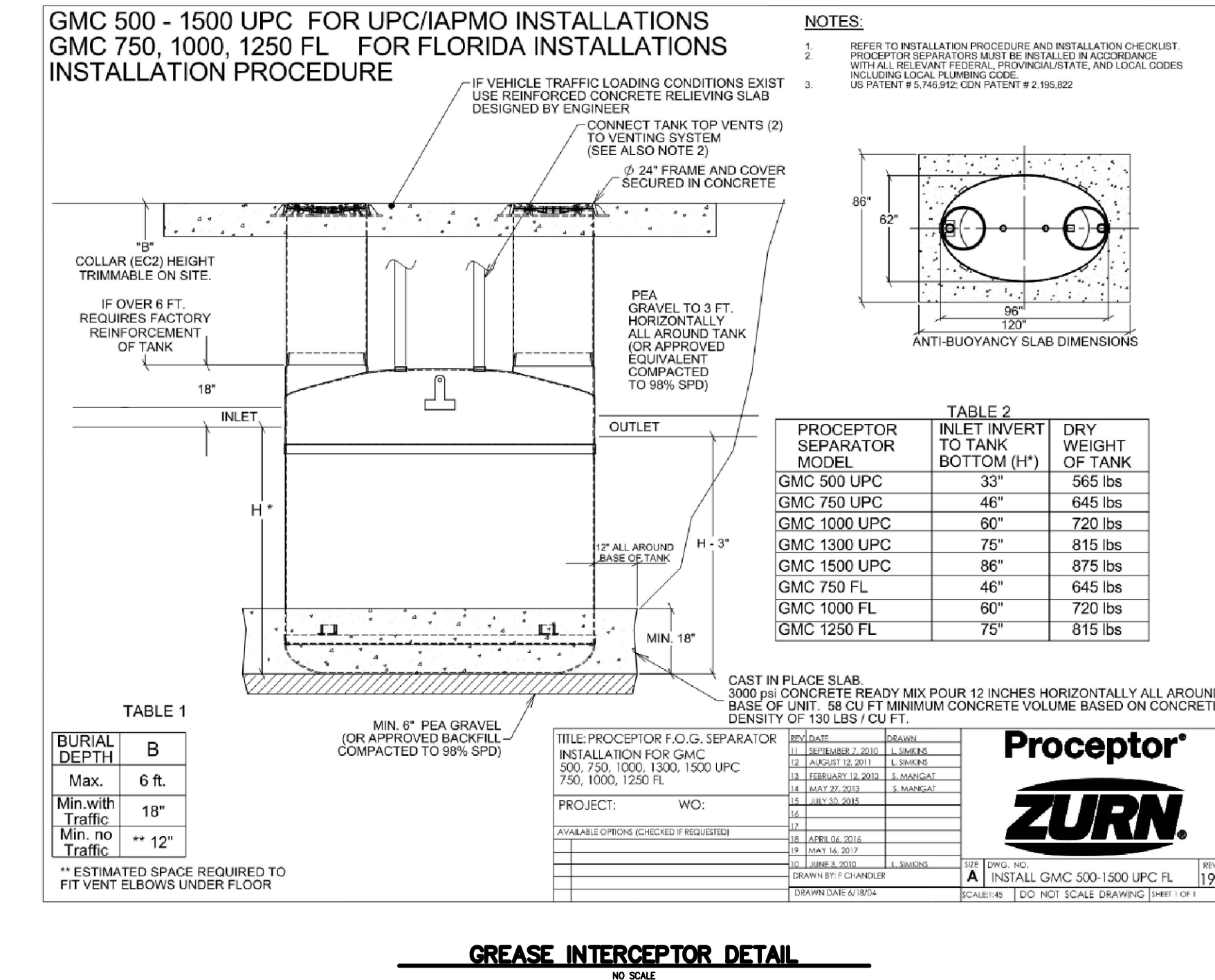
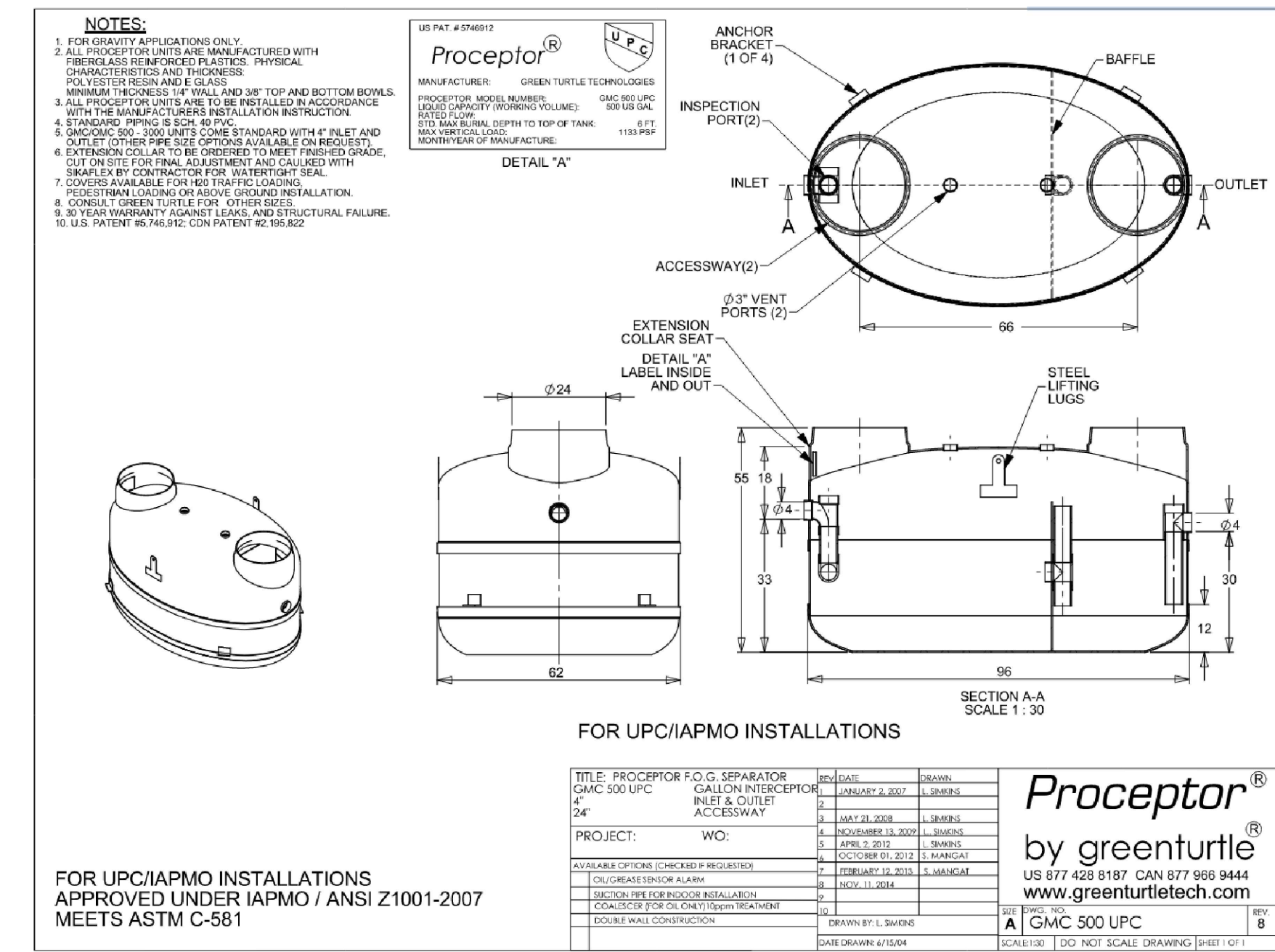




**SANITARY SEWER CLEANOUT DETAIL**  
NO SCALE



**SANITARY SEWER MANHOLE DETAIL**  
NO SCALE



**ROBERT A. KARN & ASSOCIATES, INC.**  
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**SEMERT INSTALL DETAILS**  
**SAN JOAQUIN COUNTY OFFICE OF EDUCATION**  
**CITY OF STOCKTON, CALIFORNIA**  
FOR: SAN JOAQUIN COUNTY OFFICE OF EDUCATION

SCALE	A	DATE	3/20/2024
BY	CK	DRAWN	
CHECKED		PROJ. MGR.	T.W.P.
SHEET REVISIONS			
SHEET NO.	<b>C4</b>		
OF 4 SHEETS			
JOB NO.	A23039		