

CALEXICO UNIFIED SCHOOL DISTRICT

CALEXICO HIGH SCHOOL

MODERNIZATION

CULINARY ARTS CLASSROOM MODERNIZATION

DISTRICT OFFICE
 901 ANDRADE AVE
 CALEXICO, CA 92231
 (760) 768-3888

PROJECT LOCATION
 1030 ENCINAS AVE
 CALEXICO, CA 92231
 (760) 768-3980

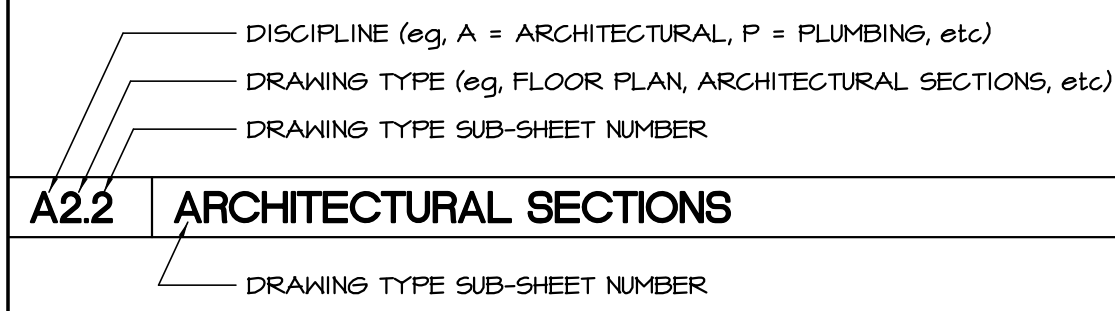
BOARD OF SCHOOL TRUSTEES:

MARIA J AMBRIZ, SUPERINTENDENT

ENRIQUE ALVARADO - PRESIDENT
 CIRO CALDERON

MICHAEL CASTILLO - CLERK/VICE PRESIDENT
 LORENZO CALDERON JR
 RICHARD ROMERO

SHEET INDEX KEY / KEY PLAN



GENERAL NOTES

- EXAMINATION OF SITE AND CONTRACT DOCUMENTS:**
 EACH BIDDER SHALL VISIT THE SITE OF THE PROPOSED WORK AND FULLY ACCQUANT HIMSELF WITH THE CONDITIONS RELATING TO THE CONSTRUCTION AND LABOR SO THAT HE MAY FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES AND RESTRICTIONS ATTENDING THE EXECUTION OF THE WORK UNDER THE CONTRACT. BIDDERS SHALL THOROUGHLY EXAMINE AND BE FAMILIAR WITH THE DRAWINGS AND PROJECT MANUAL. THE FAILURE OR OMISSION OF ANY BIDDER TO RECEIVE OR EXAMINE ANY CONTRACT, FORM, INSTRUMENT, ADDENDUM OR OTHER DOCUMENT OR TO VISIT THE SITE AND ACQUANT HIMSELF WITH CONDITIONS THERE EXISTING SHALL IN NO-WISE RELIEVE ANY BIDDER FROM OBLIGATIONS WITH RESPECT TO HIS BID OR TO THE CONTRACT. THE SUBMISSION OF A BID SHALL BE TAKEN AS PRIMA FACIE EVIDENCE OF COMPLIANCE WITH THIS SECTION. THE ARCHITECT SHALL BE NOTIFIED PRIOR TO BID, OF ANY UNUSUAL CONDITIONS OR DISCREPANCIES IN THE CONTRACT DOCUMENTS OR INTENT OF WORK TO BE ACCOMPLISHED, HEREIN.
- SCOPE OF WORK:**
 THE CALEXICO HIGH SCHOOL CTE MODERNIZATION PROJECT SHALL INCLUDE ALL WORK SHOWN ON CONTRACT DOCUMENTS INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 1. MODERNIZATION OF EXISTING HOME ECONOMICS LAB TO CONVERT TO CAREER TECHNICAL EDUCATION CULINARY ARTS CLASSROOM
 2. EXISTING ROOF TRUSSING SYSTEM IS MODIFIED TO SUPPORT THE ADDITIONAL ROOF MOUNTED EQUIPMENT LOADS
 3. NEW MECHANICAL AND ELECTRICAL TO SUPPORT THE NEW FOOD SERVICE
- GEOLOGICAL AND SOILS REPORT:**
 NONE THIS PROJECT
- CODES AND STANDARDS:**
 APPLICABLE CODES:
 ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
 2016 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, CCR
 2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, CCR
 2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 9, TITLE 24, CCR
 (2014 NATIONAL ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
 2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, CCR
 (2015 UNIFORM MECHANICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
 2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, CCR
 (2015 UNIFORM PLUMBING CODE WITH CALIFORNIA 2016 AMENDMENTS)
 2016 CALIFORNIA ENERGY CODE, PART 6, TITLE 24, CCR
 2016 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, CCR
 (2015 INTERNATIONAL FIRE CODE WITH CALIFORNIA 2016 AMENDMENTS)
 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 12, TITLE 24, CCR
 2016 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24, CCR
 TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
 2013 ASME A17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS

GENERAL NOTES

- BUILDING DATA:**
 BUILDINGS 4 - CLASSROOMS
 OCCUPANCY: E
 CONSTRUCTION TYPE: TYPE V-B
 FIRE SPRINKLER SYSTEM: NONE
 NUMBER OF STORIES: 1
 CONSTRUCTION AREA: 4,960 SQ FT
 BUILDING AREA: 4,960 SQ FT (TABLE 506.2)
 ALLOWABLE AREA: NONE
 AREA INCREASE: NONE
 4,960 < 4,960 = OK

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AS5.3	HARDSCAPE PLAN
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A5	EXTERIOR ELEVATIONS
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PROJECT BIDDING

- BASE BID**
 BASE BID SHALL INCLUDE ALL WORK SHOWN ON CONTRACT DOCUMENTS FOR THE CULINARY ARTS LAB AND CLASSROOM AND THE MODERNIZATION OF THE STANDARD TEACHING CLASSROOM 1. THE WORKS INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING ITEMS:
 1. REMOVE EXISTING IMPROVEMENTS AS REQUIRED TO COMPLETE THE WORK
 2. PROVIDE NEW ARCHITECTURAL FINISHES
 3. PROVIDE NEW PLUMBING AS REQUIRED TO SUPPORT NEW FOOD SERVICE EQUIPMENT
 4. PROVIDE NEW MECHANICAL SYSTEMS AS REQUIRED TO SUPPORT NEW FOOD SERVICE EQUIPMENT
 5. PROVIDE NEW ELECTRICAL SYSTEMS AS REQUIRED TO SUPPORT NEW FOOD SERVICE EQUIPMENT
 6. PROVIDE ALL NEW FOOD SERVICE EQUIPMENT ITEMS EXCEPT FOR ITEM SPECIFICALLY EXCLUDED FROM BASE BID
- PROJECT SCOPE**
 THE SCOPE OF WORK INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING ITEMS:
 1. REMOVE EXISTING IMPROVEMENTS AS REQUIRED TO COMPLETE THE WORK
 2. PROVIDE NEW ARCHITECTURAL FINISHES
 3. PROVIDE NEW PLUMBING AS REQUIRED TO SUPPORT NEW FOOD SERVICE EQUIPMENT
 4. PROVIDE NEW MECHANICAL SYSTEMS AS REQUIRED TO SUPPORT NEW FOOD SERVICE EQUIPMENT
 5. PROVIDE NEW ELECTRICAL SYSTEMS AS REQUIRED TO SUPPORT NEW FOOD SERVICE EQUIPMENT
 6. PROVIDE ALL NEW FOOD SERVICE EQUIPMENT ITEMS EXCEPT FOR ITEM SPECIFICALLY EXCLUDED FROM BASE BID

CONSULTANTS

MECHANICAL/PLUMBING
 DIVISION 15 CONSULTING SERVICES
 TOM F. GREEN
 11190 TURKJOHISE CIRCLE
 DENVER, AZ 86327
 (428) 712-8448

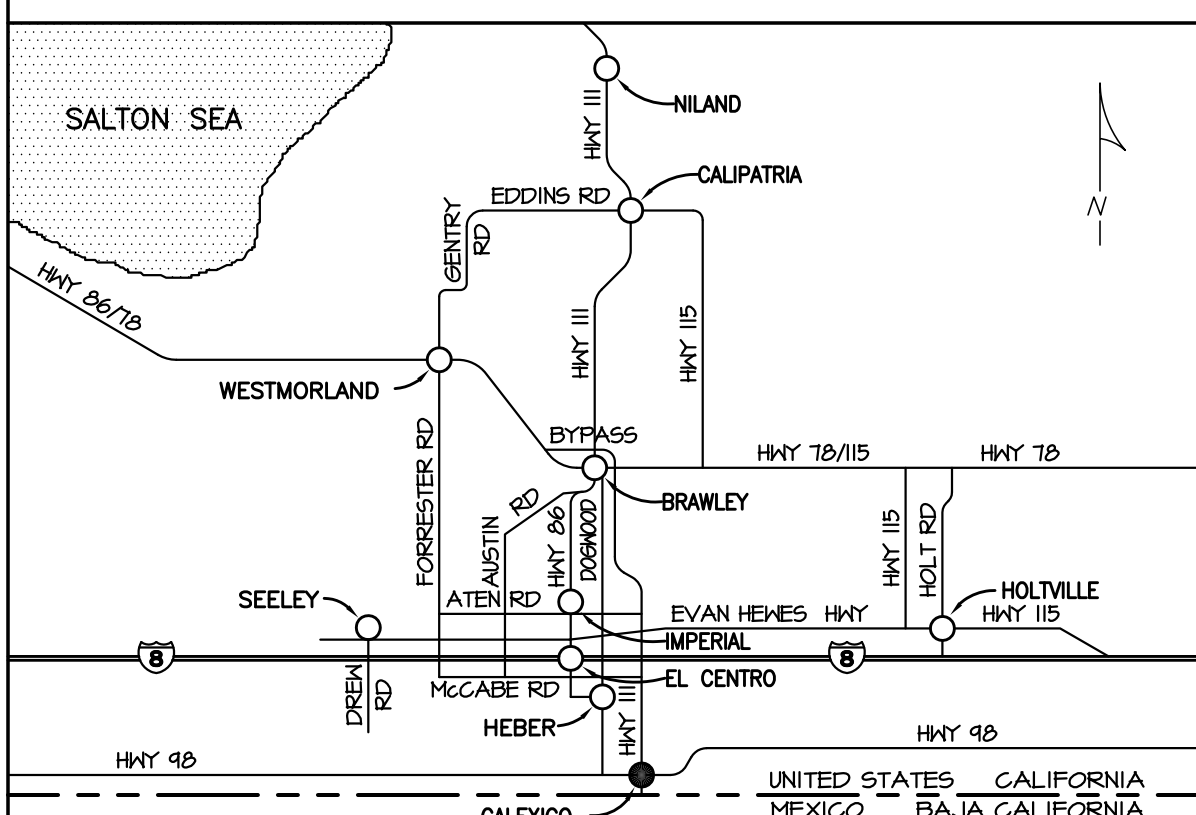
STRUCTURAL
 ORIE² ENGINEERING
 DONALD ORIE
 9150 MIRAMAR ROAD, SUITE 310
 SAN DIEGO, CA 92128
 (656) 335-1643

ELECTRICAL
 KRUSE AND ASSOCIATES
 KEITH KRUSE
 12245 WORLD TRADE DRIVE
 SUITE E
 SAN DIEGO, CA 92128
 (656) 616-9116

FIRE ALARM
 JOHNSON CONTROLS (SIMPLEX)
 JOHN ROGUS
 3568 RUFFIN ROAD
 SAN DIEGO, CA 92123
 (619) 404-4103

FOOD SERVICE DESIGN
 DIELI MURAVKA HOWE
 RICHARD DIELI
 10349 SAN DIEGO MISSION RD
 SUITE 204
 SAN DIEGO, CA 92108
 (619) 285-1184

VICINITY MAP



ADDITIONAL NOTES

THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR, SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS (HEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR. A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AN APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION-317(C), PART 1, TITLE 24, CCR)

A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

- INSPECTION:**
 A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE OWNER AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. THIS PROJECT SHALL REQUIRE:
 A. INSPECTOR OF RECORD, CLASS B

- CHANGES TO APPROVED DRAWINGS:**
 CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OR THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

- DEFERRED APPROVALS:**
 NONE THIS PROJECT

- CONSTRUCTION FIRE SAFETY:**
 CONTRACTOR IS RESPONSIBLE FOR FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION AND SHALL COMPLY WITH CFC CHAPTER 33.

APPROVALS

Sanders, Inc.
 Architecture/Engineering
 1102 INDUSTRY WAY, SUITE A
 EL CENTRO, CA 92243
 760 353 5440 FAX 760 353 5442

Project Title
**CALEXICO UNIFIED SCHOOL DISTRICT
 CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
TITLE SHEET - GENERAL NOTES, SHEET INDEX

	Document Date	Project Number
	09-23-18	18-25CX
Date Last Revised		Sheet Number
		T

SHEET COUNT: 79

GATE SCHEDULE:

NUMBER	SIZE	GATE	MATERIAL	DETAIL	REMARKS
G1	PR 4'-0" x 6'-0"	STEEL	DSAR 04-113256	ACCESSIBLE PEDESTRIAN GATE w/ PH	
G2	PR 4'-0" x 6'-0"	STEEL	DSAR 04-113256	ACCESSIBLE PEDESTRIAN GATE w/ PH	
G3	PR 4'-0" x 6'-0"	STEEL	DSAR 04-113256	ACCESSIBLE PEDESTRIAN GATE w/ PH	
G4	8'-0" x 8'-0"	STEEL	DSAR 04-113256	ACCESSIBLE PEDESTRIAN DOUBLE GATE (G)	
G5	8'-0" x 8'-0"	STEEL	N/A	MAINTENANCE DOUBLE GATE (B)	
G6	8'-0" x 8'-0"	STEEL	DSAR 04-113256	ACCESSIBLE PEDESTRIAN DOUBLE GATE (G)	
G7	8'-0" x 8'-0"	STEEL	DSAR 04-113256	ACCESSIBLE PEDESTRIAN DOUBLE GATE (G)	
G8	PR 4'-0" x 6'-0"	STEEL	DSAR 04-113256	ACCESSIBLE PEDESTRIAN GATE w/ PH	
G9	PR 4'-0" x 6'-0"	STEEL	DSAR 04-113256	ACCESSIBLE PEDESTRIAN GATE w/ PH	
G10	PR 4'-0" x 6'-0"	STEEL	DSAR 04-113256	ACCESSIBLE PEDESTRIAN GATE w/ PH	

BUILDING IDENTIFICATION:

NUMBER	DESCRIPTION	CONC	OCCUPANCY	FIRE	DSA APPL NO	CLOSED DSA COMPLIANT
1	AUTOMOTIVE SHOP	V-B	E	NO	A-28428, 04-108687, 04-11421	YES/YES/YES
2	VOCATIONAL ARTS	V-B	E	NO	A-10004, A-28428, A-50204, 04-11421	YES/YES/YES
3	CLASSROOMS	V-B	E	NO	A-14852, A-50204, 04-11421	UK/YES/YES
4	CLASSROOMS	V-B	E	NO	A-10004, A-50204, 04-11421	YES/YES/YES
5	CLASSROOMS	V-B	E	NO	A-10004, A-50204, 04-11421	YES/YES/YES
6	CLASSROOMS	V-B	E	NO	A-10004, A-50204, 04-11421	YES/YES/YES
7	CLASSROOMS	V-B	E	NO	A-10004, A-50204, 04-11421	YES/YES/YES
8	ADMIN / COUSLINS / OFFICES	V-B	B	NO	A-10004, A-50204, 04-11421	YES/YES/YES
9	COUSLINS CENTER	V-B	B	NO	A-10004, A-50204, A-23885	YES/YES/YES
10	LIBRARY / CAREER CENTER / CLASSROOMS	V-B	E	NO	A-23885, 04-108687, 04-11421	UK/YES/YES
11	LIBRARY / CAREER CENTER / CLASSROOMS	V-B	E	NO	A-23885, 04-108687, 04-11421	UK/YES/YES
12	SPECIAL EDUCATION CLASSROOMS	V-B	E	NO	A-51425	UK
13	CLASSROOMS	V-B	E	NO	A-23885, 04-108687, 04-11421	UK/YES/YES
14	MODULAR STAFF WORK ROOM / LOBBY	V-B	E	NO	UNKNOWN	UK
15	CLASSROOMS	V-B	E	NO	A-40351, 04-108687, 04-11421	UK/YES/YES
16	CLASSROOMS	V-B	E	NO	A-28428, 04-108687, 04-11421	YES/YES/YES
17	NOT USED	-	-	-	N/A	N/A
18	NOT USED	-	-	-	N/A	N/A
19	NOT USED	-	-	-	N/A	N/A
20	CAFETERIA	V-B	A-2	NO	A-10004, A-50204, 04-11421	YES/YES/YES
21	MUSIC CLASSROOM	V-B	E	NO	A-14832, 04-108687	UK/YES
22	GYMNASIUM	V-B	A-3	NO	A-10004, A-50204, 04-11421	YES/YES/YES
23	VARIER GYMNASIUM	V-B	A-3, A-4	NO	A-23885, A-28428, 04-11541	UK/YES
24	SCIENCE CLASSROOM	V-B	E	NO	A-62735, 04-10742	UK/YES
25	NOT USED	-	-	-	N/A	N/A
26	MODULAR CLASSROOMS	V-B	E	NO	04-10783	YES
27	MODULAR CLASSROOMS	V-B	E	NO	04-10783	YES
28	MODULAR CLASSROOMS	V-B	E	NO	UNKNOWN	UK
29	MODULAR CLASSROOMS / RESTROOMS	V-B	E	NO	04-10783	YES
30	NOT USED	-	-	-	N/A	N/A
31	MODULAR CLASSROOMS	V-B	E	NO	UNKNOWN	UK
32	MODULAR CLASSROOMS	V-B	E	NO	UNKNOWN	UK
33	POOL SHOWER AND LOCKER	V-A	E	YES	04-113256	YES
34	MODULAR RESTROOMS	V-B	E	NO	04-115622	YES
35	STORAGE	V-B	E	NO	UNKNOWN	UK
36	CONCESSION STAND	V-B	E	NO	UNKNOWN	UK
37	TICKET BOOTH	V-B	E	NO	UNKNOWN	UK
A	SHADE STRUCTURE	V-A	E	YES	04-113256	YES
B	POOL EQUIPMENT	V-A	E	YES	04-113256	YES
C	SHADE STRUCTURE	V-B	A-3	NO	04-14823	YES
D	SHADE STRUCTURE	V-B	A-3	NO	04-14823	YES
E	SHADE STRUCTURE	V-B	A-3	NO	04-14823	YES
F	GRANDSTAND	V-B	A-5	NO	04-115622	YES
G	GRANDSTAND	V-B	A-5	NO	04-115622	YES
H	PRESS BOX	V-B	A-5	NO	04-115622	YES
J	SHADE STRUCTURE	V-B	A-3	NO	04-14823	YES
K	SHADE STRUCTURE	V-B	A-3	NO	04-14823	YES

(A) FIRE GATE SHALL REMAIN LOCKED, EXCEPT AS REQUIRED BY THE LOCAL FIRE AUTHORITY.
 (B) MAINTENANCE GATE SHALL REMAIN LOCKED DURING SCHOOL HOURS AND AFTER HOURS. SPECIAL FUNCTIONS AND ARE TO BE OPERATED ONLY BY MAINTENANCE STAFF.
 (C) DOUBLE GATE WITH ONE ACCESSIBLE AND ONE INACTIVE LEAF.

PARKING RATIO

SPACE TYPE	SPACES
TOTAL	21
TOTAL ACC.	5
VAAN ACC.	5

PARKING RATIO

SPACE TYPE	SPACES
TOTAL	106
TOTAL ACC.	6
VAAN ACC.	6

PARKING RATIO

SPACE TYPE	SPACES
TOTAL	106
TOTAL ACC.	6
VAAN ACC.	6

KEYNOTES:

- DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT. THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS, AS PART OF THE DESIGN OF THIS PROJECT THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NONCOMPLIANT (1) HAVE BEEN IDENTIFIED AND (2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILED DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR FINDINGS OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS. DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCOMPLYING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE ORDER.
- EXISTING ACCESSIBLE PARKING - DSA# 04-113256
- EXISTING TON-AWAY SIGN - DSA# 04-113256
- ACCESSIBLE CURB RAMP - DSA# 04-113256
- EXISTING TON-AWAY SIGN - DSA# 04-113256
- EXISTING ACCESSIBLE PARKING - DSA# 04-11541
- EXISTING ACCESSIBLE CURB RAMP - DSA# 04-113256
- EXISTING ACCESSIBLE LOADING ZONE - DSA# 04-113256
- EXISTING BOYS/GIRLS TOILET - DSA# 04-11541
- EXISTING BOYS TOILET - DSA# 04-11541
- EXISTING MEN'S AND WOMEN'S STAFF TOILET - DSA# 04-11541
- EXISTING ACCESSIBLE DRINKING FOUNTAIN - DSA# 04-11541
- NOT USED
- PROPOSED ACCESSIBLE PARKING (12) AB51
- EXISTING BOYS/GIRLS TOILET - DSA# 04-115622
- EXISTING WOMEN'S STAFF TOILET - DSA# 04-115622
- EXISTING MEN'S STAFF TOILET - DSA# 04-115622
- EXISTING STUDENT BIKE RACKS - DSA# 04-115622
- EXISTING STAFF BIKE LOCKERS - DSA# 04-115622
- EXISTING TON-AWAY SIGN - DSA# 04-115622

LEGEND:

- EXISTING ACCESSIBLE PATH OF TRAVEL - DSA# 04-115622
- PROPOSED ACCESSIBLE PATH OF TRAVEL
- GATE NUMBER - SEE GATE SCHEDULE

APPROVALS

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 EL CENTRO, CA 92243
 760 353 5440 FAX 760 353 5442

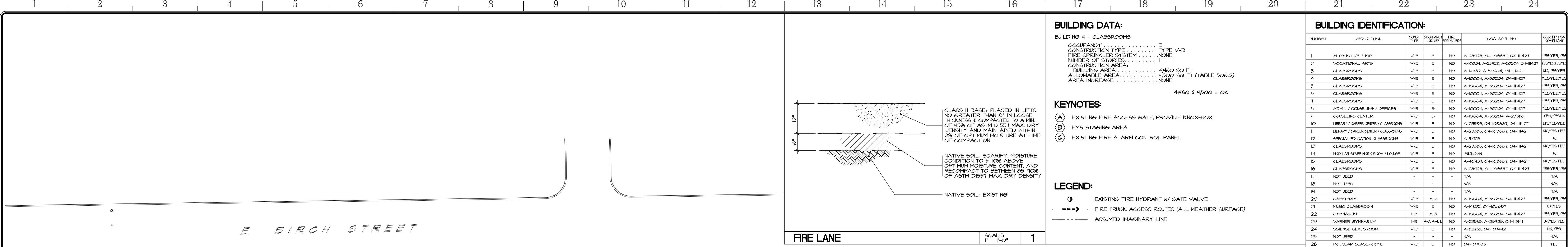
Project Title
**CALEXICO UNIFIED SCHOOL DISTRICT
 CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
ACCESSIBILITY SITE PLAN

	Document Date	Project Number
	09-23-18	18-25CX
	Date Last Revised	Sheet Number
		AS1

SCALE: 1" = 60'-0"

ACCESSIBILITY SITE PLAN



BUILDING DATA:

BUILDINGS 4 - CLASSROOMS

OCCUPANCY: E

CONSTRUCTION TYPE: TYPE V-B

FIRE SPRINKLER SYSTEM: NONE

NUMBER OF STORIES: 1

CONSTRUCTION AREA: 4960 SQ FT

BUILDING AREA: 4900 SQ FT (TABLE 506.2)

ALLOWABLE AREA: NONE

AREA INCREASE: NONE

4960 ± 4900 = OK

KEYNOTES:

(A) EXISTING FIRE ACCESS GATE, PROVIDE KNOX-BOX

(B) EMS STAGING AREA

(C) EXISTING FIRE ALARM CONTROL PANEL

LEGEND:

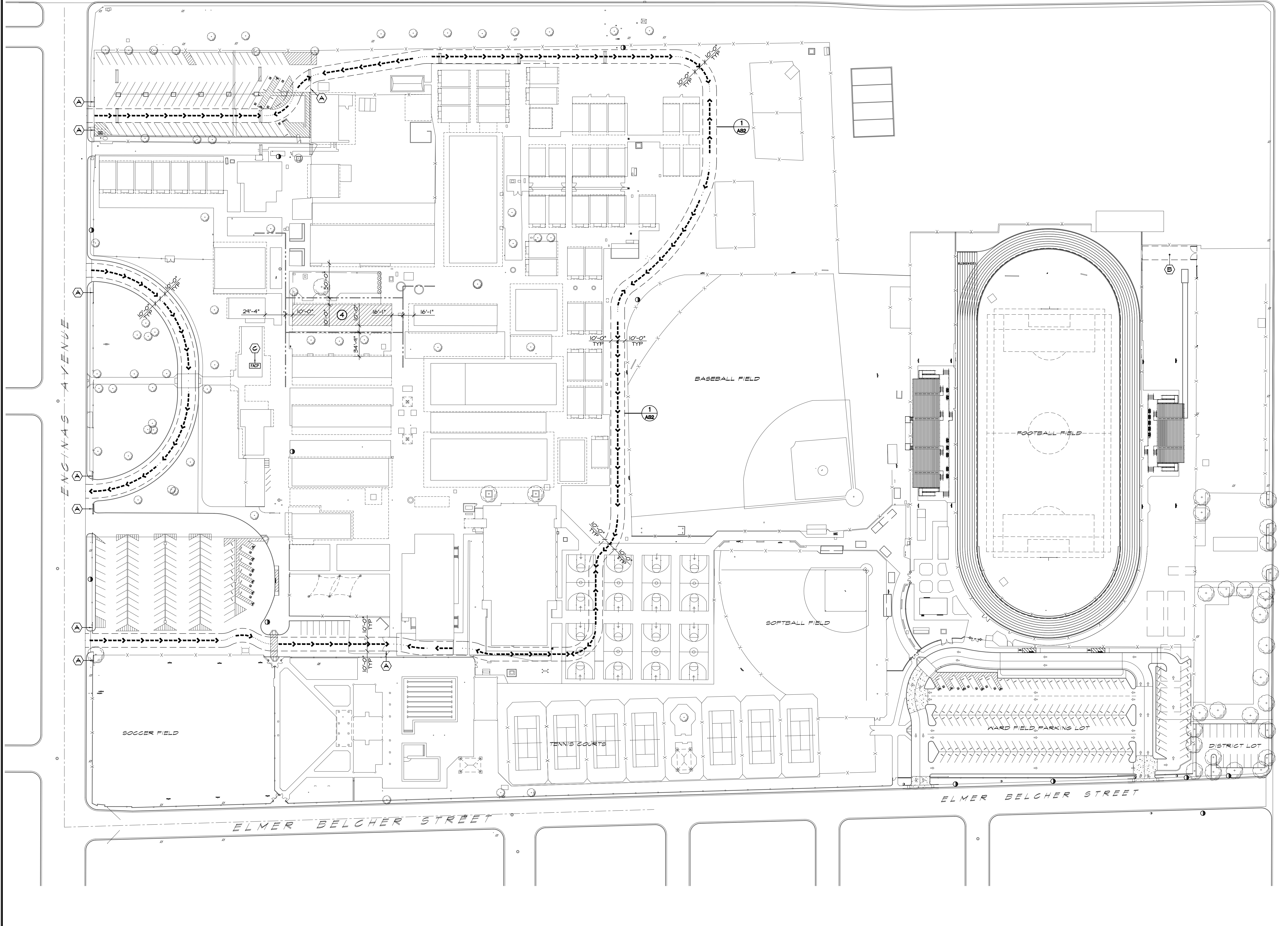
○ EXISTING FIRE HYDRANT w/ GATE VALVE

--- FIRE TRUCK ACCESS ROUTES (ALL WEATHER SURFACE)

--- ASSUMED IMAGINARY LINE

BUILDING IDENTIFICATION:

NUMBER	DESCRIPTION	CONSTR	OCCUPANCY	FIRE	DSA APPL. NO.	CLOSED DSA
1	AUTOMOTIVE SHOP	V-B	E	NO	A-28428, 04-106681, 04-11421	YES/YES/YES
2	VOCATIONAL ARTS	V-B	E	NO	A-10004, A-28428, A-50204, 04-11421	YES/YES/YES
3	CLASSROOMS	V-B	E	NO	A-14852, A-50204, 04-11421	UK/YES/YES
4	CLASSROOMS	V-B	E	NO	A-10004, A-50204, 04-11421	YES/YES/YES
5	CLASSROOMS	V-B	E	NO	A-10004, A-50204, 04-11421	YES/YES/YES
6	CLASSROOMS	V-B	E	NO	A-10004, A-50204, 04-11421	YES/YES/YES
7	CLASSROOMS	V-B	E	NO	A-10004, A-50204, 04-11421	YES/YES/YES
8	ADMIN / COUSLINS / OFFICES	V-B	B	NO	A-10004, A-50204, 04-11421	UK
9	COUSLINS CENTER	V-B	B	NO	A-10004, A-50204, A-23885	YES/YES/UK
10	LIBRARY / CAREER CENTER / CLASSROOMS	V-B	E	NO	A-23885, 04-106681, 04-11421	UK/YES/YES
11	LIBRARY / CAREER CENTER / CLASSROOMS	V-B	E	NO	A-23885, 04-106681, 04-11421	UK/YES/YES
12	SPECIAL EDUCATION CLASSROOMS	V-B	E	NO	A-31425	UK
13	CLASSROOMS	V-B	E	NO	A-23885, 04-106681, 04-11421	UK/YES/YES
14	MODULAR STAFF WORK ROOM / LOBBY	V-B	E	NO	UNKNOWN	UK
15	CLASSROOMS	V-B	E	NO	A-40431, 04-106681, 04-11421	UK/YES/YES
16	CLASSROOMS	V-B	E	NO	A-28428, 04-106681, 04-11421	YES/YES/YES
17	NOT USED	-	-	-	N/A	N/A
18	NOT USED	-	-	-	N/A	N/A
19	NOT USED	-	-	-	N/A	N/A
20	CATERING	V-B	A-2	NO	A-10004, A-50204, 04-11421	YES/YES/YES
21	MUSIC CLASSROOM	V-B	E	NO	A-14822, 04-106681	UK/YES
22	GYMNASIUM	V-B	A-3	NO	A-10004, A-50204, 04-11421	YES/YES/YES
23	VARIABLE GYMNASIUM	V-B	A-3, A-4	NO	A-23885, A-28428, 04-11541	UK/YES/YES
24	SCIENCE CLASSROOM	V-B	E	NO	A-62793, 04-107492	UK/YES
25	NOT USED	-	-	-	N/A	N/A
26	MODULAR CLASSROOMS	V-B	E	NO	04-107983	YES
27	MODULAR CLASSROOMS	V-B	E	NO	04-107983	YES
28	MODULAR CLASSROOMS	V-B	E	NO	04-107983	UK
29	MODULAR CLASSROOMS / RESTROOMS	V-B	E	NO	04-107983	YES
30	NOT USED	-	-	-	N/A	N/A
31	MODULAR CLASSROOMS	V-B	E	NO	UNKNOWN	UK
32	MODULAR CLASSROOMS	V-B	E	NO	UNKNOWN	UK
33	POOL SHOWER AND LOCKER	V-A	E	YES	04-19256	YES
34	MODULAR RESTROOMS	V-B	E	NO	04-15622	YES
35	STORAGE	V-B	E	NO	UNKNOWN	UK
36	CONCESSION STAND	V-B	E	NO	UNKNOWN	UK
37	TICKET BOOTH	V-B	E	NO	UNKNOWN	UK
A	SHADE STRUCTURE	V-A	E	YES	04-19256	YES
B	POOL EQUIPMENT	V-A	E	YES	04-19256	YES
C	SHADE STRUCTURE	V-B	A-3	NO	04-14823	YES
D	SHADE STRUCTURE	V-B	A-3	NO	04-14823	YES
E	SHADE STRUCTURE	V-B	A-3	NO	04-14823	YES
F	GRANDSTAND	V-B	A-5	NO	04-15622	YES
G	GRANDSTAND	V-B	A-5	NO	04-15622	YES
H	PRESS BOX	V-B	A-5	NO	04-15622	YES
J	SHADE STRUCTURE	V-B	A-3	NO	04-14823	YES
K	SHADE STRUCTURE	V-B	A-3	NO	04-14823	YES



APPROVALS

Sanders, INC.
Architecture/Engineering
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760 353 5440 FAX 760 353 5442

Project Title
**CALEXICO UNIFIED SCHOOL DISTRICT
CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
FIRE ACCESS SITE PLAN

Document Date
09-12-18

Date Last Revised

Project Number
18-25CX

Sheet Number
AS2

810

LOCAL FIRE AUTHORITY REVIEW

To facilitate the Division of the State Architect's (DSA) approval of the Fire Life Safety portion of a project, DSA requires Local Fire Authority (LFA) review of certain elements as identified in this form. Use of this form is mandatory for projects that are required to be reviewed by a LFA. For additional information, see [DSA 810 \(09-15-18\)](#) and [DSA Policy 08-2](#).

PROJECT INFORMATION

School District/Owner: Calexico Unified School District
Project Name/Scope: Calexico High School CTE Culinary Arts Modernization
Project Address: 1030 Encinas Ave, Calexico, CA 92231

LOCAL FIRE AUTHORITY (LFA)

LFA Agency Name: Calexico Fire Department
LFA Reviewer Name: _____ Title: _____
Email: _____ Telephone Number: _____

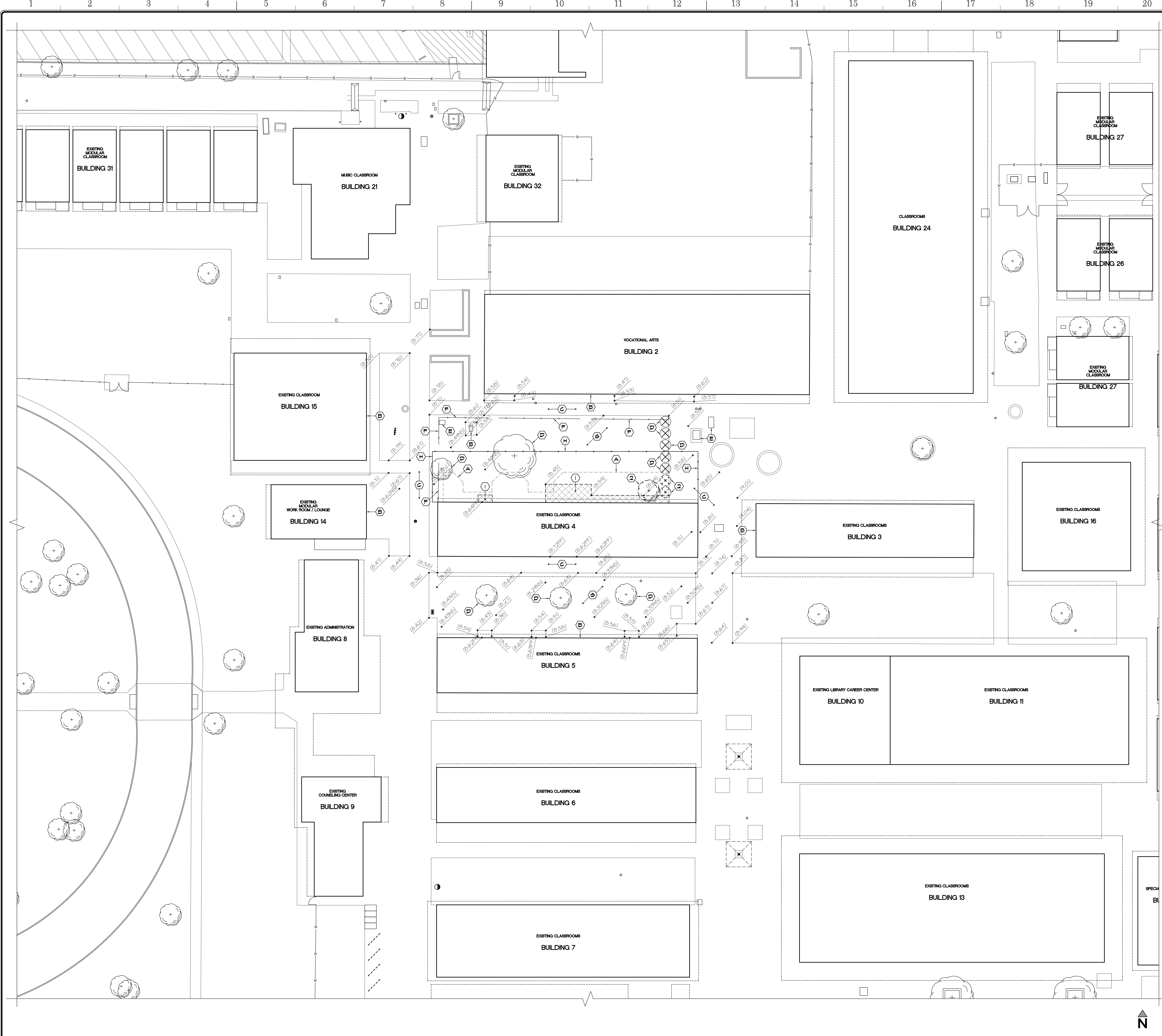
I have reviewed and responded to the applicable items for this project as listed below.
Note: Only sign this form when it is stamped onto the site plan. A loose form is not acceptable to DSA.

LFA Reviewer's Signature: _____ Date: _____

Review Key: "Y" = Complies with LFA requirements "N" = Not approved (complete Section 8)
"NA" = Not applicable to the project "NF" = LFA needs not to review

Item	Description	Y	N	NA	NF
1	Where an elevator does not meet medical emergency service call size, per the California Building Code (CBC), use of alternate for emergency rescue and patient transport is acceptable.				X
2	Access roads, fire lane markings, pavers and gate entrances are in accordance with Title 19, California Code of Regulations and the California Fire Code, Chapter 8.				
3	Fire hydrant location and distribution complies with the California Fire Code (or see #4).				
4	Fire hydrant location and distribution complies with NFPA 1142, "Alternate Means." If "NF" is checked, DSA can only approve on-site water storage as an alternate. The signature of the school district official is required to acknowledge the use of alternate means.				
5	Signature of School District Official: _____ Date: _____				
6	The location(s) of the proposed post indicator valve and fire department connection meet the requirements of this jurisdiction.				
7	The location(s) of the detector check valve assembly meet the requirements of this jurisdiction.				
8	Is the project located in a hazard severity zone area? (CBC, Chapter 7A, Section 701A.) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
9	Check type if "Yes": <input type="checkbox"/> Moderate <input type="checkbox"/> High <input type="checkbox"/> Very High <input type="checkbox"/> WIFA If one of these zones is checked, the project design must meet the requirements of Chapter 7A.				
10	COMMENTS (note deficiencies):				

DSA 810 (09-15-18) DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA Page 1 of 1



- KEYNOTES:**
- (A) LINE OF PROPOSED SITE IMPROVEMENTS
 - (B) EXISTING STRUCTURE - PROTECT
 - (C) EXISTING CONCRETE WALK - PROTECT
 - (D) EXISTING TREE / SHRUB - PROTECT
 - (E) EXISTING UTILITIES - PROTECT
 - (F) EXISTING STEEL FENCE - PROTECT
 - (G) EXISTING LANDSCAPE AREA - PROTECT
 - (H) CONSTRUCTION FENCING

- DEMOLITION KEYNOTES:**
- (1) EXISTING CONCRETE SLAB TO BE REMOVED
 - (2) EXISTING TREE / SHRUB TO BE REMOVED

- LEGEND:**
- ⊕ (86.30) BENCH MARK: NGS DESIGNATION V1225, PID DB09130, NS2 52 56-3447R, NUB 31 42-3522 (NGS ELEVATION ADJUSTED +200)
 - (88.40) EXISTING NATURAL SOIL ELEVATION (INO)
 - (85.70) EXISTING ELEVATION (SITE CONCRETE UND)
 - FIRE HYDRANT
 - ⊕ POWER POLE
 - NS NATURAL SOIL
 - TC TOP OF CURB
 - FL FLOW LINE
 - AC ASPHALT PAVING
 - FF FINISH FLOOR

- NOTES:**
1. DEMOLITION KEYNOTES ARE NOT INTENDED TO SHOW ALL DEMOLITION REQUIRED FOR PROPOSED IMPROVEMENTS. CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING IMPROVEMENTS/CONDITIONS REQUIRED TO COMPLETE WORK FOR PROPOSED IMPROVEMENTS.
 2. CONTRACTOR SHALL ENCOUNTER EXISTING IRRIGATION LINES DURING DEMOLITION. CONTRACTOR SHALL CAP LINE AWAY FROM PROPOSED IMPROVEMENTS, AND NOTIFY ARCHITECT/SCHOOL DISTRICT.
 3. FIRE PROTECTION DURING DEMOLITION AND CONSTRUCTION SHALL CONFORM TO 2016 CFC CHAPTER 33.

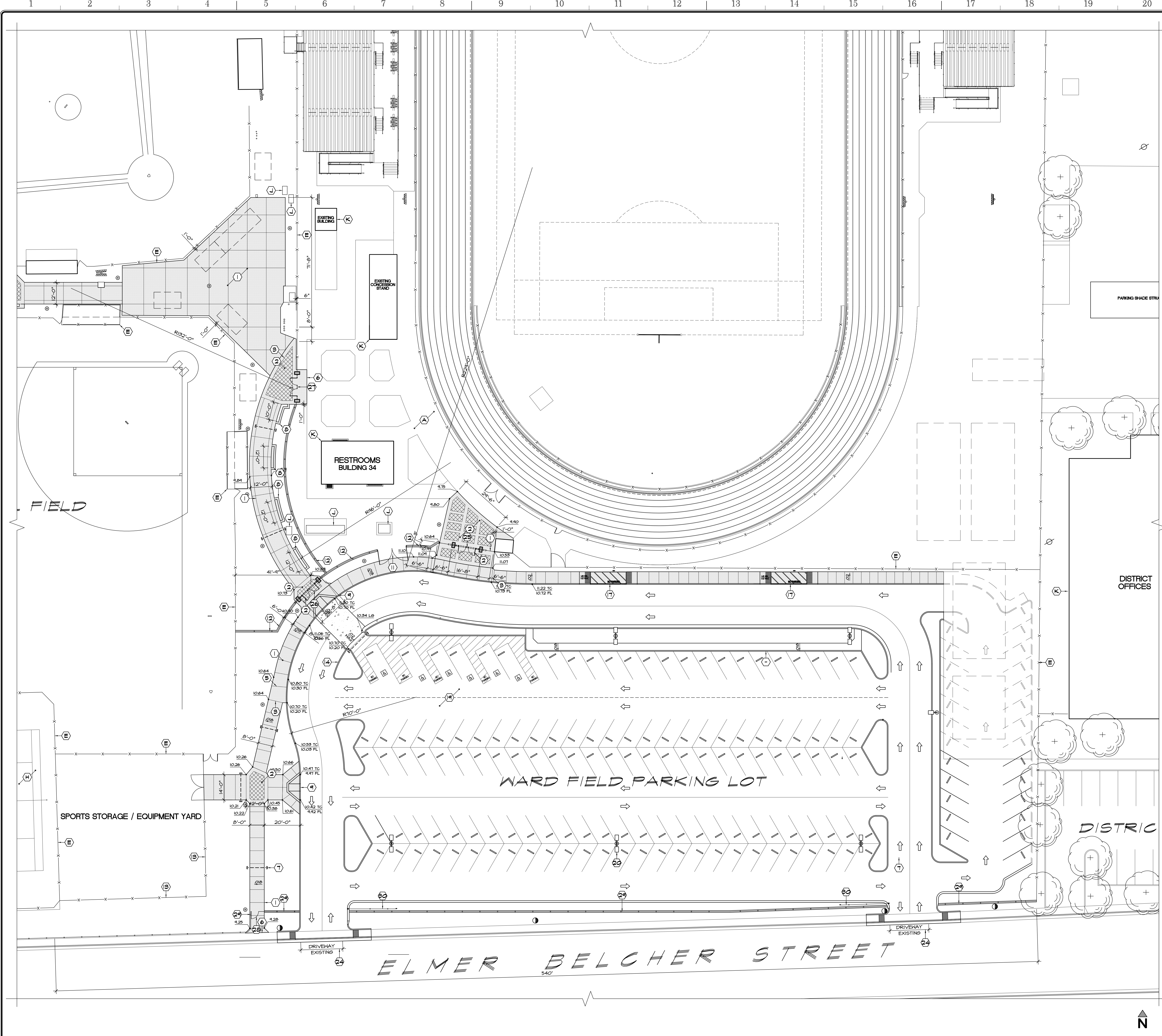
APPROVALS

Sanders, INC.
Architecture/Engineering
 1102 INDUSTRY WAY, SUITE A
 EL CENTRO, CA 92243
 760 353 5440 FAX 760 353 5442

Project Title
**CALEXICO UNIFIED SCHOOL DISTRICT
 CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
SITE SURVEY AND DEMOLITION PLAN

	Document Date 09-23-18	Project Number 18-25CX
	Date Last Revised	Sheet Number AS3



- KEYNOTES:**
- 1 6" THICK COLORED CONCRETE W/ SANDBLAST FINISH
 - 2 6" THICK COLORED CONCRETE W/ SANDBLAST FINISH
 - 3 EXPANSION JOINT
 - 4 CONSTRUCTION JOINT
 - 5 CONTROL JOINT
 - 6 NEW TO EXISTING CONCRETE - MATCH EXISTING ELEVATION
 - 7 PROVIDE 4" PVC GLEEVE (CAP ENDS) W/ 12" DEPTH MIN TO ALL PLANTING AREAS. TYP - VERIFY EXACT LOCATIONS
 - 8 CONCRETE BENCH
 - 9 ACCESSIBLE CURB RAMP
 - 10 3" ASPHALT PAVING
 - 11 8'-0" STEEL DOUBLE GATE
 - 12 STEEL FENCE - TYPE A
 - 13 CHAINLINK FENCE
 - 14 NEW CURB
 - 15 NEW CURB AND GUTTER
 - 16 NEW CONCRETE SHALE
 - 17 ACCESSIBLE LOADING ZONE
 - 18 7" THICK CONC. PAVING
 - 19 ASPHALT PAVING
 - 20 EXISTING LIGHTING STANDARD
 - 21 FLAG POLE
 - 22 COMMUNICATIONS VAULT - SEE COMMUNICATIONS DRAWINGS
 - 23 ACCESSIBLE DRINKING FOUNTAIN, PROVIDE POWER AND WATER
 - 24 EXISTING CONCRETE SIDEWALK, CURB AND GUTTER PER CITY OF CALEXICO STANDARDS
 - A STEEL GATE
 - B STEEL GATE
 - C NEW 4'-0" ACCESSIBLE PEDESTRIAN STEEL GATE
 - D STEEL FENCE - TYPE B
 - E EXISTING 30'-0" STEEL ROLLING GATE

- LEGEND:**
- 336.55 BENCH MARK, TOP OF MANHOLE CORNER OF E. BELCHER STREET AND DOOL AVE
 - x 933.4 EXISTING ELEVATION FROM AERIAL SURVEY
 - 30.80 EXISTING ELEVATION (SITE CONCRETE UN.O.)
 - 22 PROPOSED ELEVATION (SITE CONCRETE UN.O.)
 - DIRECTION OF SLOPE W/ SLOPE NOTED
 - RADIUS - NOTED IN DECIMAL FEET
 - GB - GRADE BREAK
 - SD STORM DRAIN
 - FIRE HYDRANT
 - IRRIGATION HYDRANT
 - POWER POLE
 - SPORTS FIELD LIGHT STANDARDS
 - MANHOLE
 - CHAIN LINK FENCE
 - NS NATURAL SOIL
 - TC TOP OF CURB
 - FL FLOOR LINE
 - TB TOP OF BENCH
 - TP TOP OF PLANTER
 - PB POLE BASE
 - D DRAIN

- NOTES:**
1. ALL DIMENSIONS ARE TO FACE OF CURB AND FACE OF STUD/CMU (UN.O.).
 2. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY DRAINAGE OF SITE. CONTRACTOR SHALL NOTIFY ARCHITECT PRIOR TO CONSTRUCTION. ANY SITE CONCRETE WHICH WILL NOT PROPERLY DRAIN.
 3. ALL CONTROL JOINTS TO BE SAW CUT.
 4. ALL NATIVE SOIL REMOVED FOR CONSTRUCTION HARDSCAPE SHALL REMAIN ON SITE. CONTRACTOR SHALL USE NATIVE SOIL FOR FINISH GRADING.
 5. MAXIMUM GROSS SLOPE AT ALL ACCESSIBLE PATHS OF TRAVEL IS 2%.

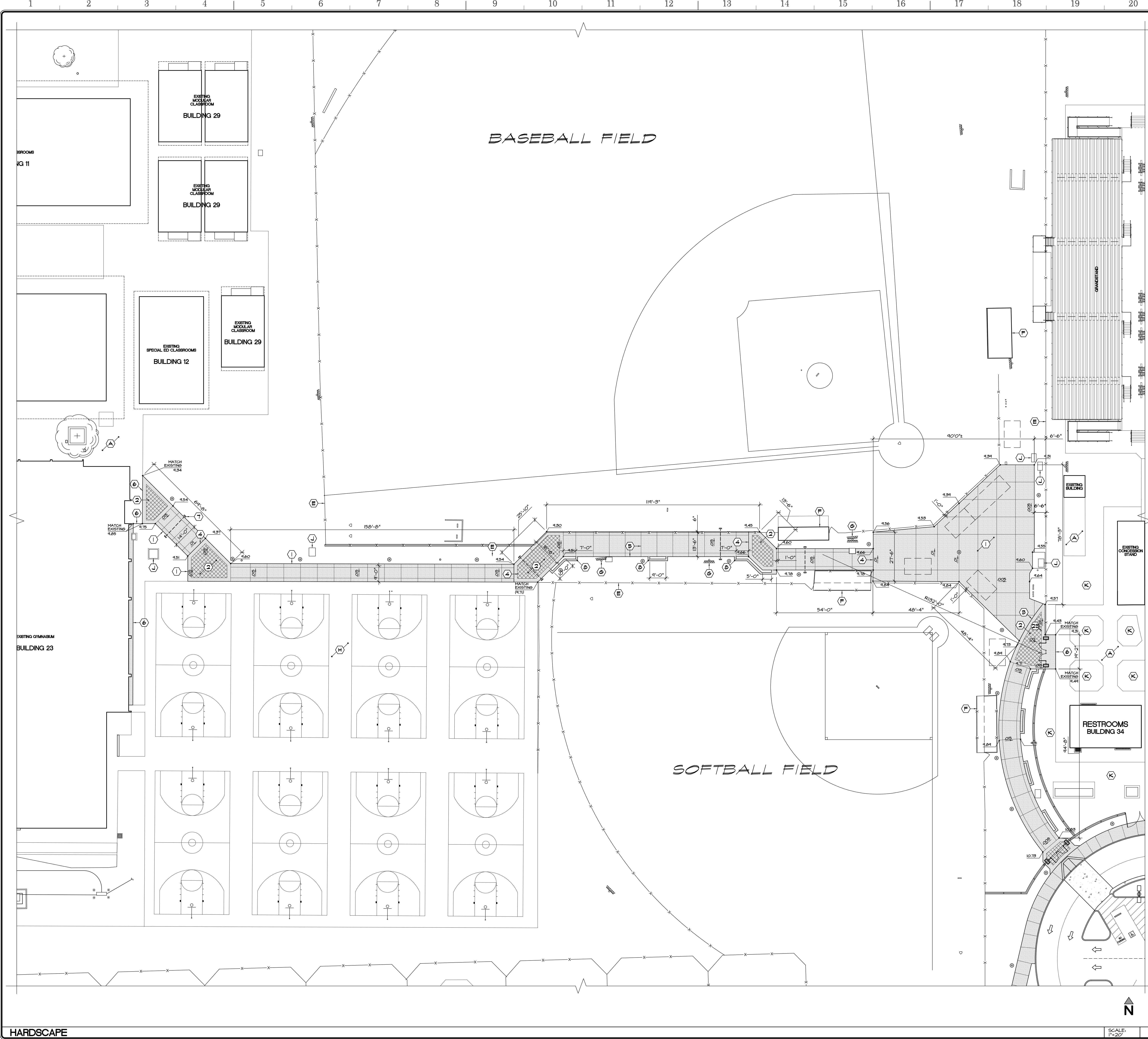
APPROVALS

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Project Title
**CALEXICO UNIFIED SCHOOL DISTRICT
 CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
HARDSCAPE

	Document Date 09-23-18	Project Number 18-25CX
	Date Last Revised	Sheet Number AS5.1



- KEYNOTES:**
- 1 6" THICK CONCRETE WALK (1 ABX2)
 - 2 6" THICK COLORED CONCRETE W/ SANDBLAST FINISH (1 ABX2)
 - 3 EXPANSION JOINT (6 ABX2)
 - 4 CONSTRUCTION JOINT (6 ABX2)
 - 5 CONTROL JOINT (6 ABX2)
 - 6 NEW TO EXISTING CONCRETE - MATCH EXISTING ELEVATION (9 ABX2)
 - 7 PROVIDE 4" PVC GLEEVE (CAP ENDS) W/ 12" DEPTH MIN TO ALL PLANTING AREAS, TYP - VERIFY EXACT LOCATIONS
 - 8 CONCRETE BENCH (7 ABX2)
 - 9 ACCESSIBLE CURB RAMP (3 ABX2)
 - 10 3" ASPHALT PAVING (3 ABX2)
 - 11 8'-0" STEEL DOUBLE GATE (20 ABX4)
 - 12 STEEL FENCE - TYPE A (2 ABX4)
 - 13 CHAINLINK FENCE (22 ABX2)
 - 14 NEW CURB (11 ABX2)
 - 15 NEW CURB AND GUTTER (12 ABX2)
 - 16 NEW CONCRETE SHALE (13 ABX2)
 - 17 ACCESSIBLE LOADING ZONE (9 ABX1)
 - 18 7" THICK CONC. PAVING (2 ABX2)
 - 19 ASPHALT PAVING (5 ABX2)
 - 20 EXISTING LIGHTING STANDARD
 - 21 FLAG POLE (5 ABX2)
 - 22 COMMUNICATIONS VAULT - SEE COMMUNICATIONS DRAWINGS
 - 23 ACCESSIBLE DRINKING FOUNTAIN, PROVIDE POWER AND WATER
 - 24 EXISTING CONCRETE SIDEWALK, CURB AND GUTTER PER CITY OF CALEXICO STANDARDS
 - 25 STEEL GATE (E ABX4)
 - 26 STEEL GATE (B ABX4)
 - 27 NEW 4'-0" ACCESSIBLE PEDESTRIAN STEEL GATE (A ABX4)
 - 28 STEEL FENCE - TYPE B (11 ABX2)
 - 29 EXISTING 30'-0" STEEL ROLLING GATE

- LEGEND:**
- 336.55 BENCH MARK, TOP OF MANHOLE CORNER OF E. BELCHER STREET AND DOOL AVE
 - 933.4 EXISTING ELEVATION FROM AERIAL SURVEY
 - 30.60 EXISTING ELEVATION (SITE CONCRETE UNO.)
 - 22 PROPOSED ELEVATION (SITE CONCRETE UNO.)
 - 22 DIRECTION OF SLOPE W/ SLOPE NOTED
 - (D) RADIUS - NOTED IN DECIMAL FEET
 - GB GRADE BREAK
 - SD STORM DRAIN
 - FH FIRE HYDRANT
 - IR IRRIGATION HYDRANT
 - PF POWER POLE
 - SL SPORTS FIELD LIGHT STANDARDS
 - MH MANHOLE
 - CLF CHAIN LINK FENCE
 - NS NATURAL SOIL
 - TC TOP OF CURB
 - FL FLOOR LINE
 - TB TOP OF BENCH
 - TP TOP OF PLANTER
 - PB POLE BASE
 - D DRAIN

- NOTES:**
1. ALL DIMENSIONS ARE TO FACE OF CURB AND FACE OF STUD/C/W (UNO.).
 2. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY DRAINAGE OF SITE. CONTRACTOR SHALL NOTIFY ARCHITECT PRIOR TO CONSTRUCTION. ANY SITE CONCRETE WHICH WILL NOT PROPERLY DRAIN.
 3. ALL CONTROL JOINTS TO BE SAW CUT.
 4. ALL NATIVE SOIL REMOVED FOR CONSTRUCTION HARDSCAPE SHALL REMAIN ON SITE. CONTRACTOR SHALL USE NATIVE SOIL FOR FINISH GRADING.
 5. MAXIMUM CROSS SLOPE AT ALL ACCESSIBLE PATHS OF TRAVEL IS 2%.

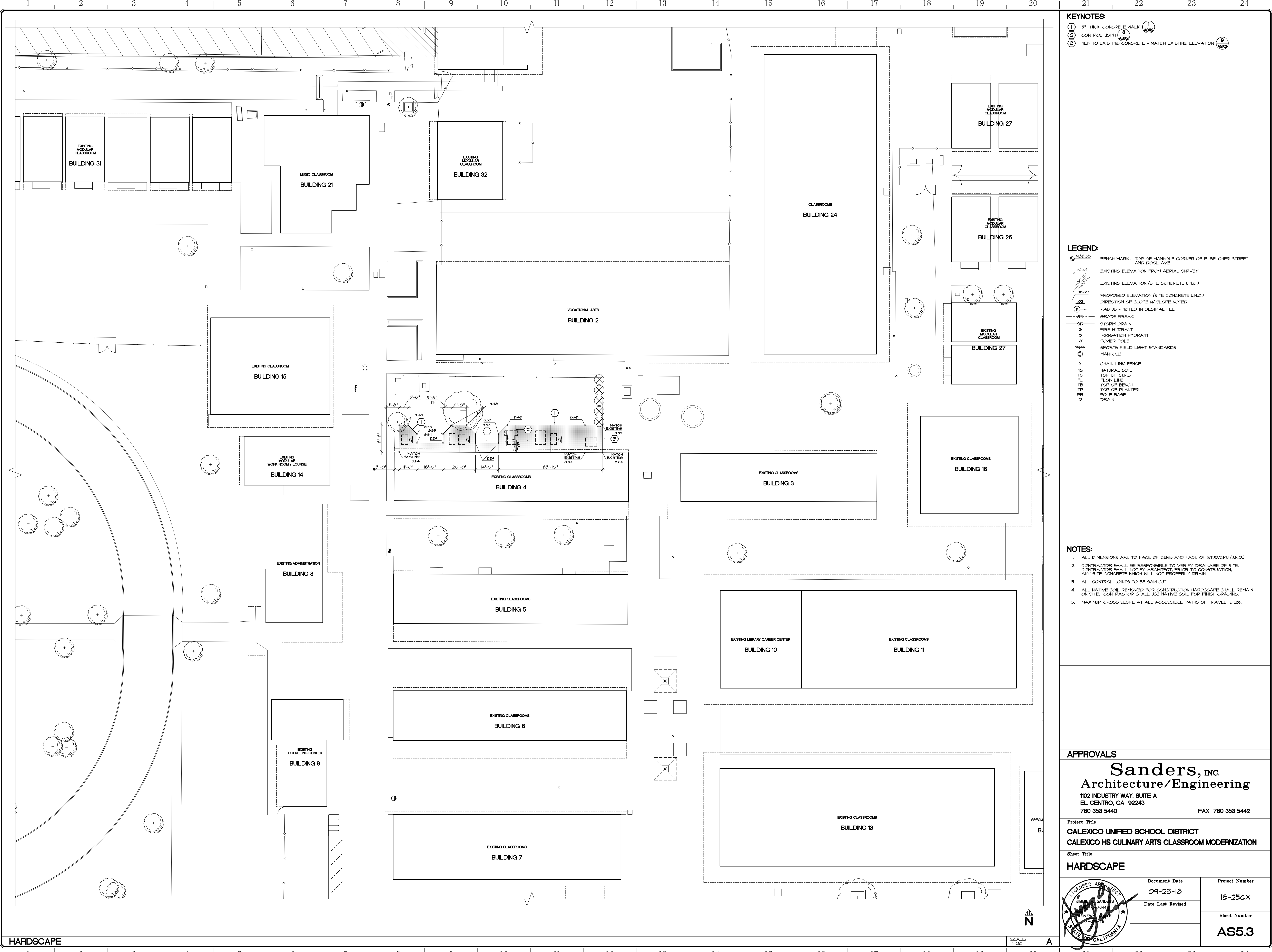
APPROVALS

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Project Title
**CALEXICO UNIFIED SCHOOL DISTRICT
 CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
HARDSCAPE

	Document Date 09-23-18	Project Number 18-25CX
	Date Last Revised	Sheet Number AS5.2



- KEYNOTES:**
- ① 5" THICK CONCRETE WALK
 - ② CONTROL JOINT
 - ③ NEW TO EXISTING CONCRETE - MATCH EXISTING ELEVATION

- LEGEND:**
- 936.55 BENCH MARK: TOP OF MANHOLE CORNER OF E. BELGHER STREET AND DOOL AVE
 - x 933.4 EXISTING ELEVATION FROM AERIAL SURVEY
 - EXISTING ELEVATION (SITE CONCRETE U.N.O.)
 - 30.00 PROPOSED ELEVATION (SITE CONCRETE U.N.O.)
 - DIRECTION OF SLOPE w/ SLOPE NOTED
 - RADIUS - NOTED IN DECIMAL FEET
 - -6.00 GRADE BREAK
 - STORM DRAIN
 - FIRE HYDRANT
 - IRRIGATION HYDRANT
 - POWER POLE
 - SPORTS FIELD LIGHT STANDARDS
 - MANHOLE
 - CHAIN LINK FENCE
 - NS NATURAL SOIL
 - TG TOP OF CURB
 - FL FLOW LINE
 - TB TOP OF BENCH
 - TP TOP OF PLANTER
 - PB POLE BASE
 - D DRAIN

- NOTES:**
1. ALL DIMENSIONS ARE TO FACE OF CURB AND FACE OF STUD/CMU (U.N.O.).
 2. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY DRAINAGE OF SITE. CONTRACTOR SHALL NOTIFY ARCHITECT PRIOR TO CONSTRUCTION. ANY SITE CONCRETE HIGH WILL NOT PROPERLY DRAIN.
 3. ALL CONTROL JOINTS TO BE SAW CUT.
 4. ALL NATIVE SOIL REMOVED FOR CONSTRUCTION HARDSCAPE SHALL REMAIN ON SITE. CONTRACTOR SHALL USE NATIVE SOIL FOR FINISH GRADING.
 5. MAXIMUM CROSS SLOPE AT ALL ACCESSIBLE PATHS OF TRAVEL IS 2%.

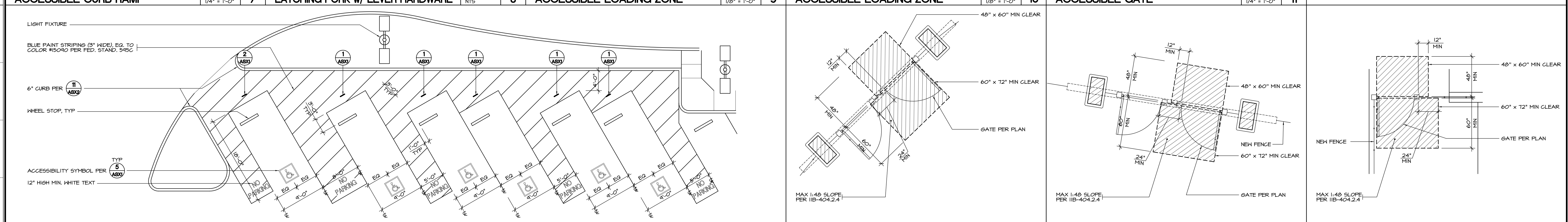
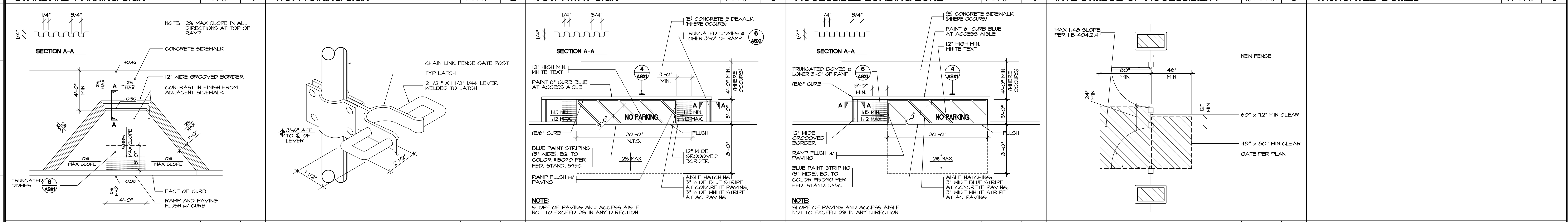
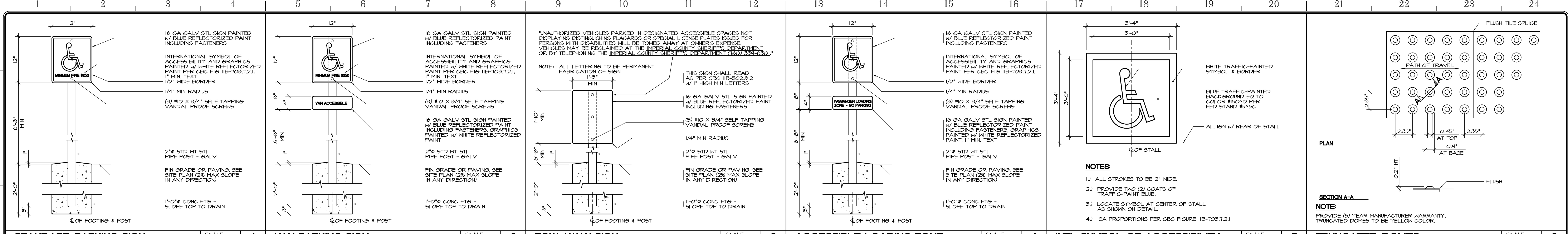
APPROVALS

Sanders, INC.
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Project Title
**CALEXICO UNIFIED SCHOOL DISTRICT
 CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

HARDSCAPE

	Document Date 09-23-18	Project Number 18-25CX
	Date Last Revised	Sheet Number AS5.3



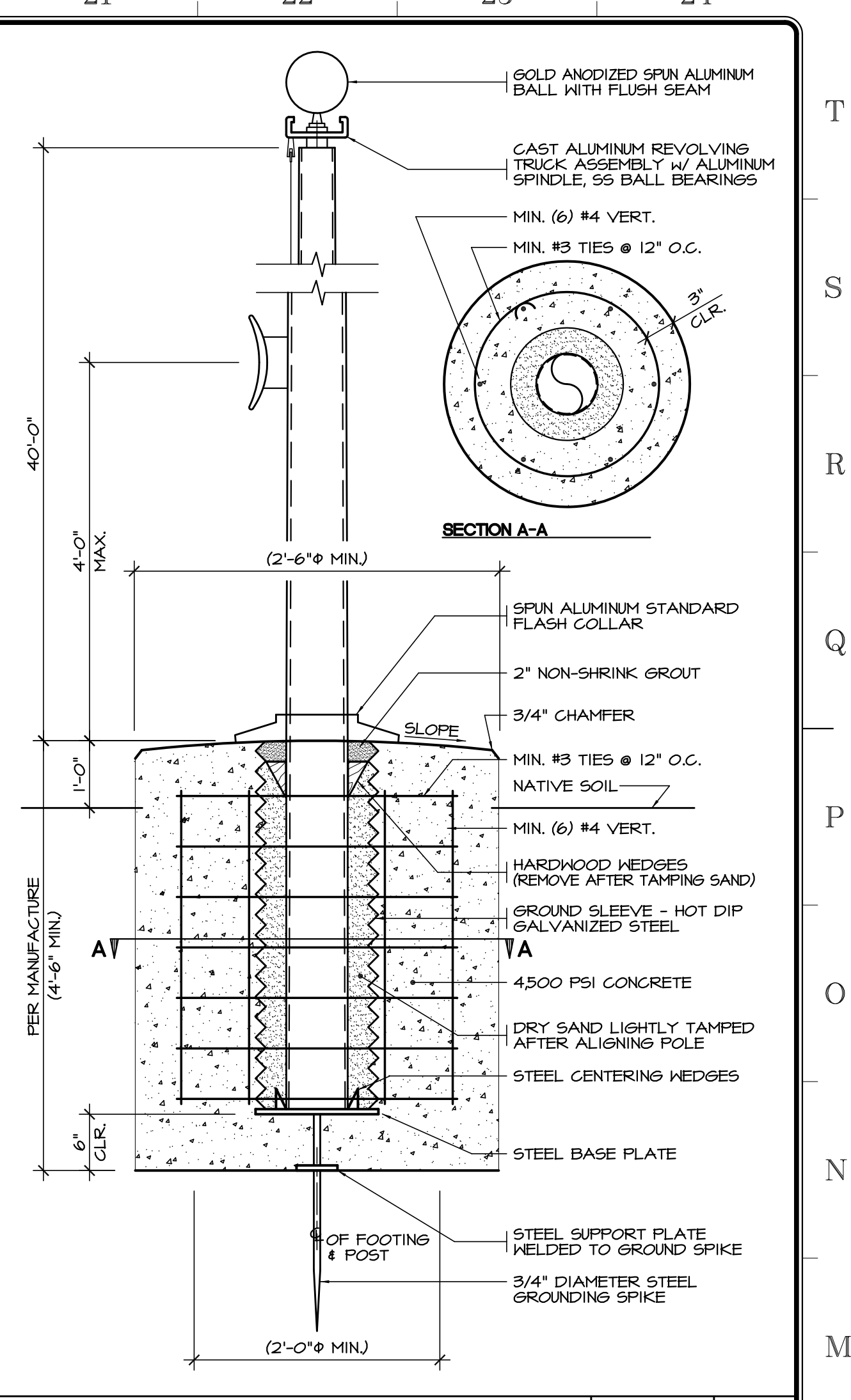
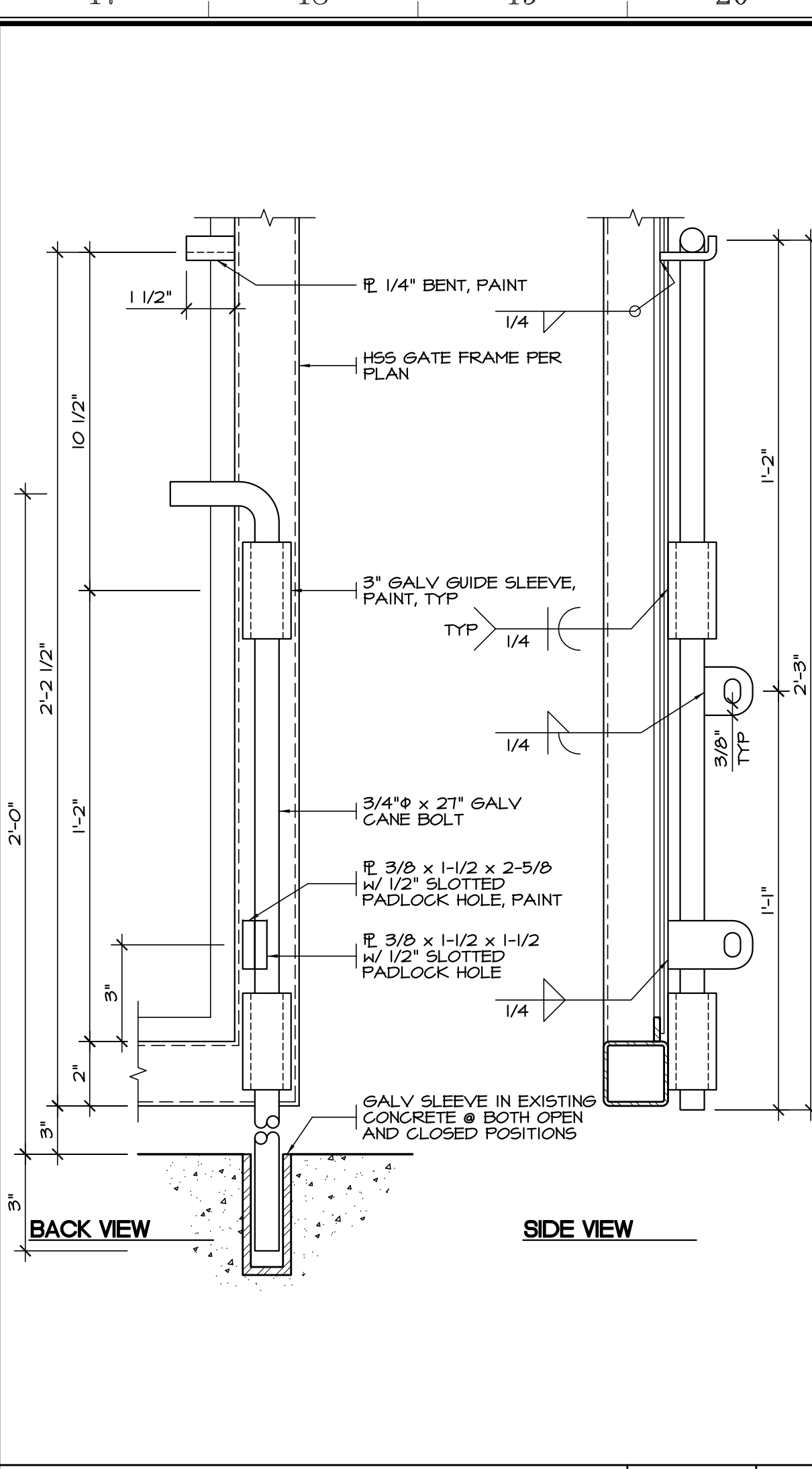
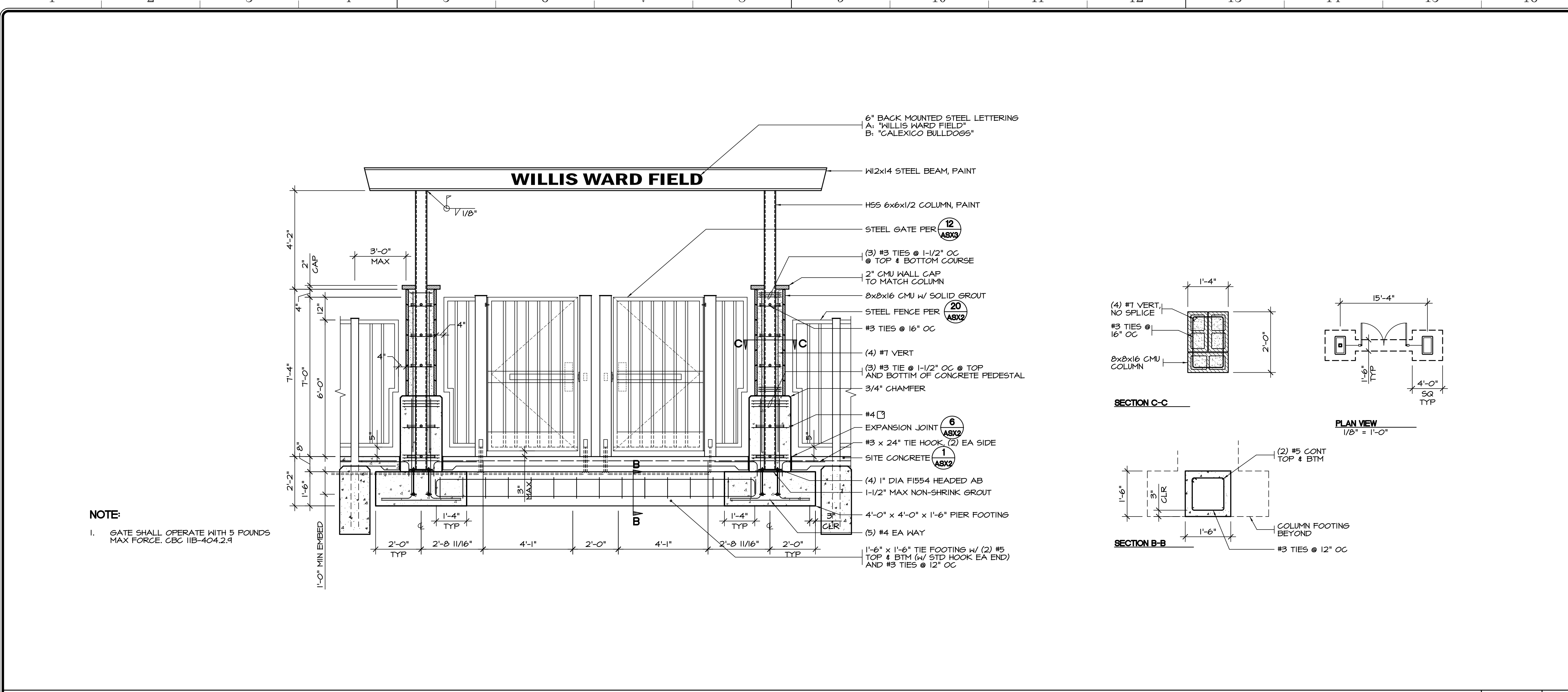
APPROVALS

Sanders, INC.
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Project Title
**CALEXICO UNIFIED SCHOOL DISTRICT
 CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
SITE ACCESSIBILITY DETAILS

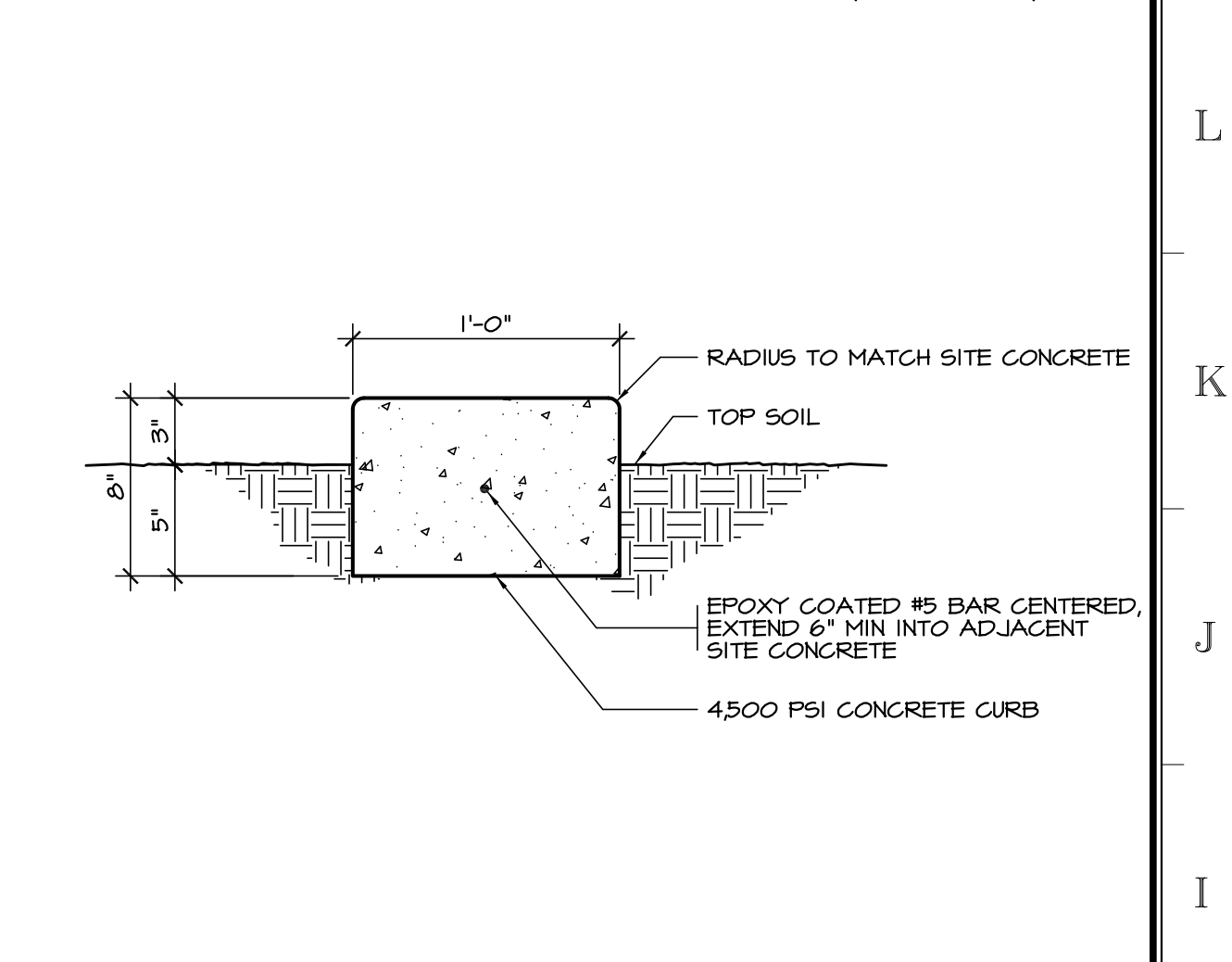
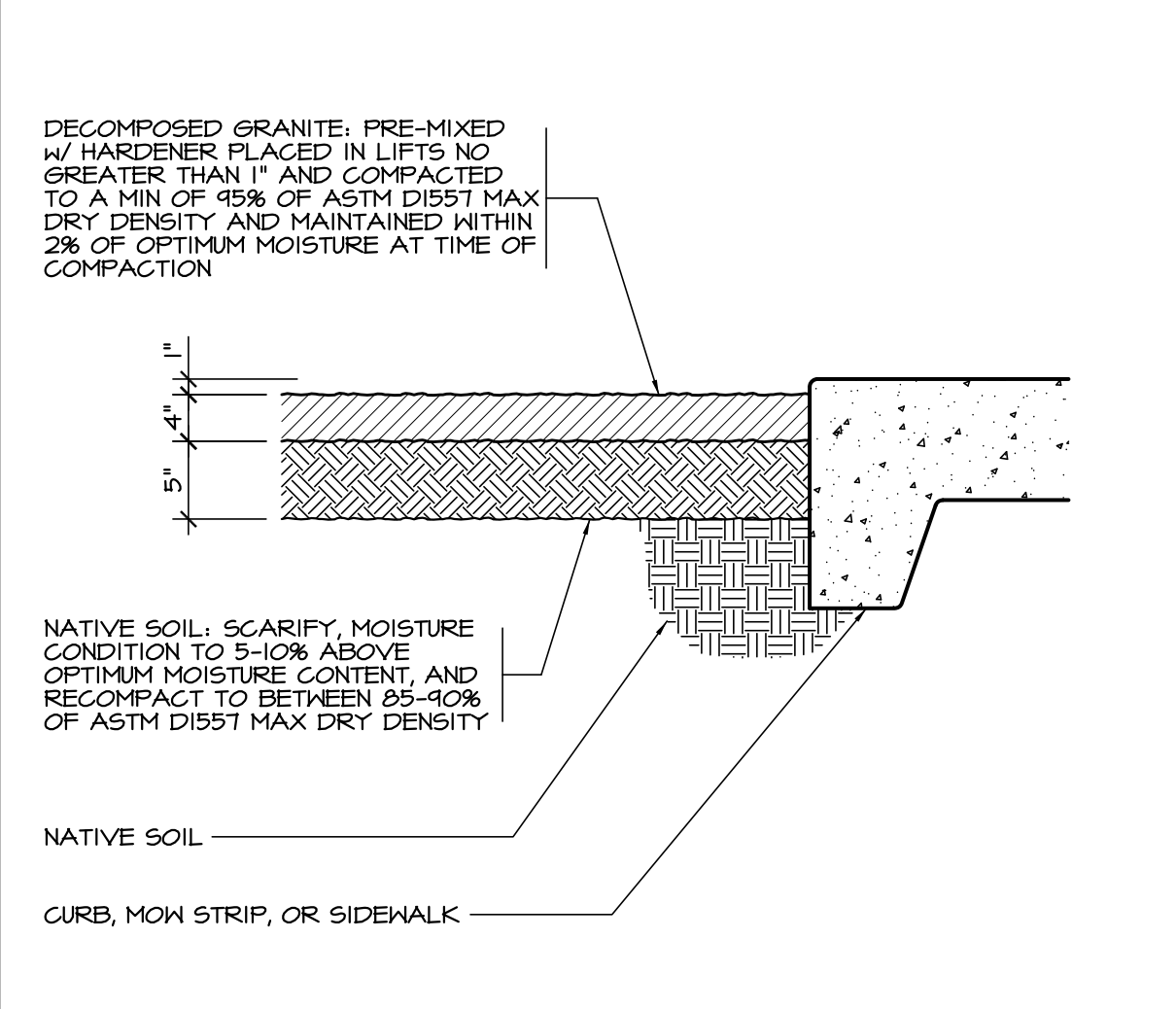
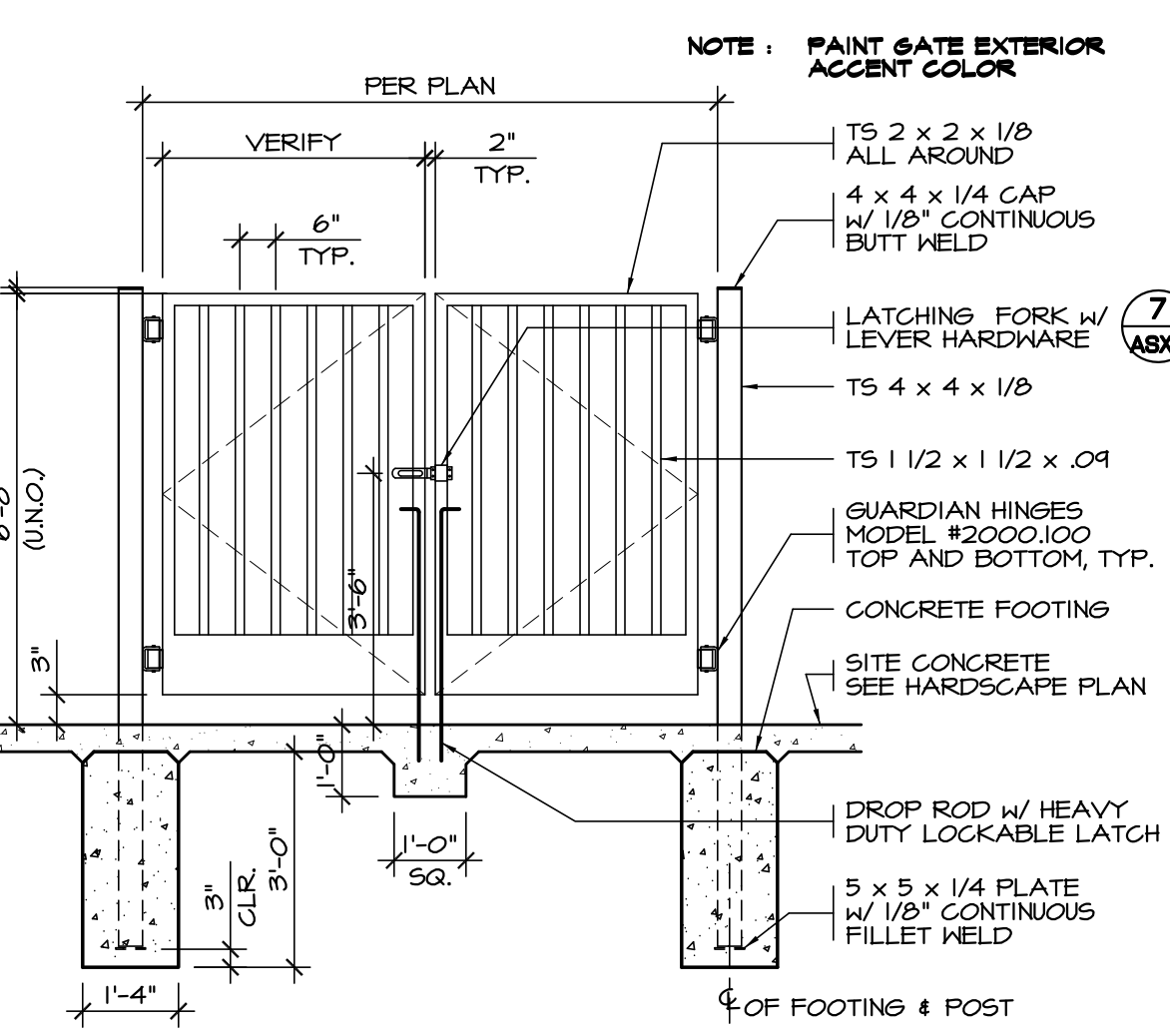
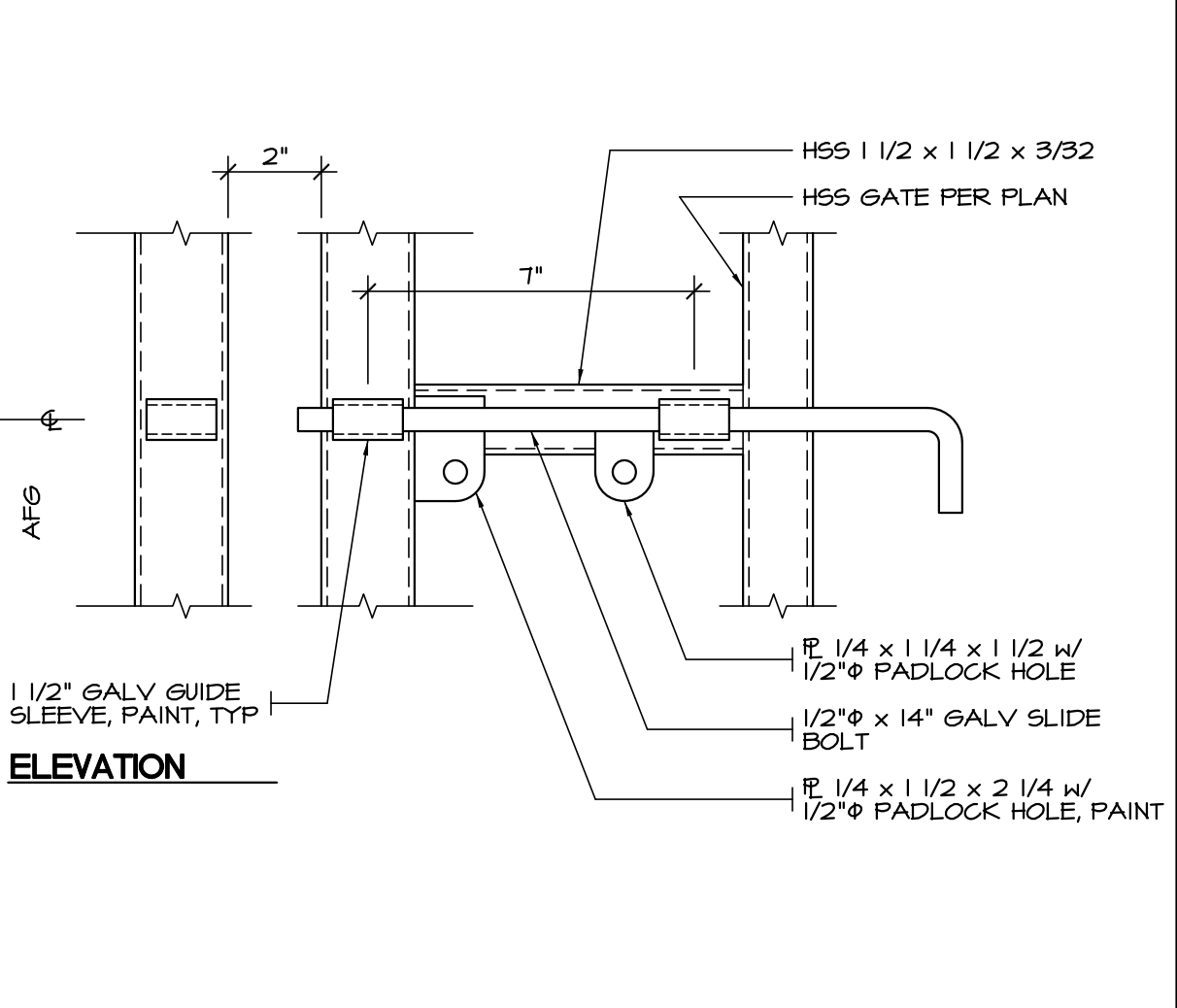
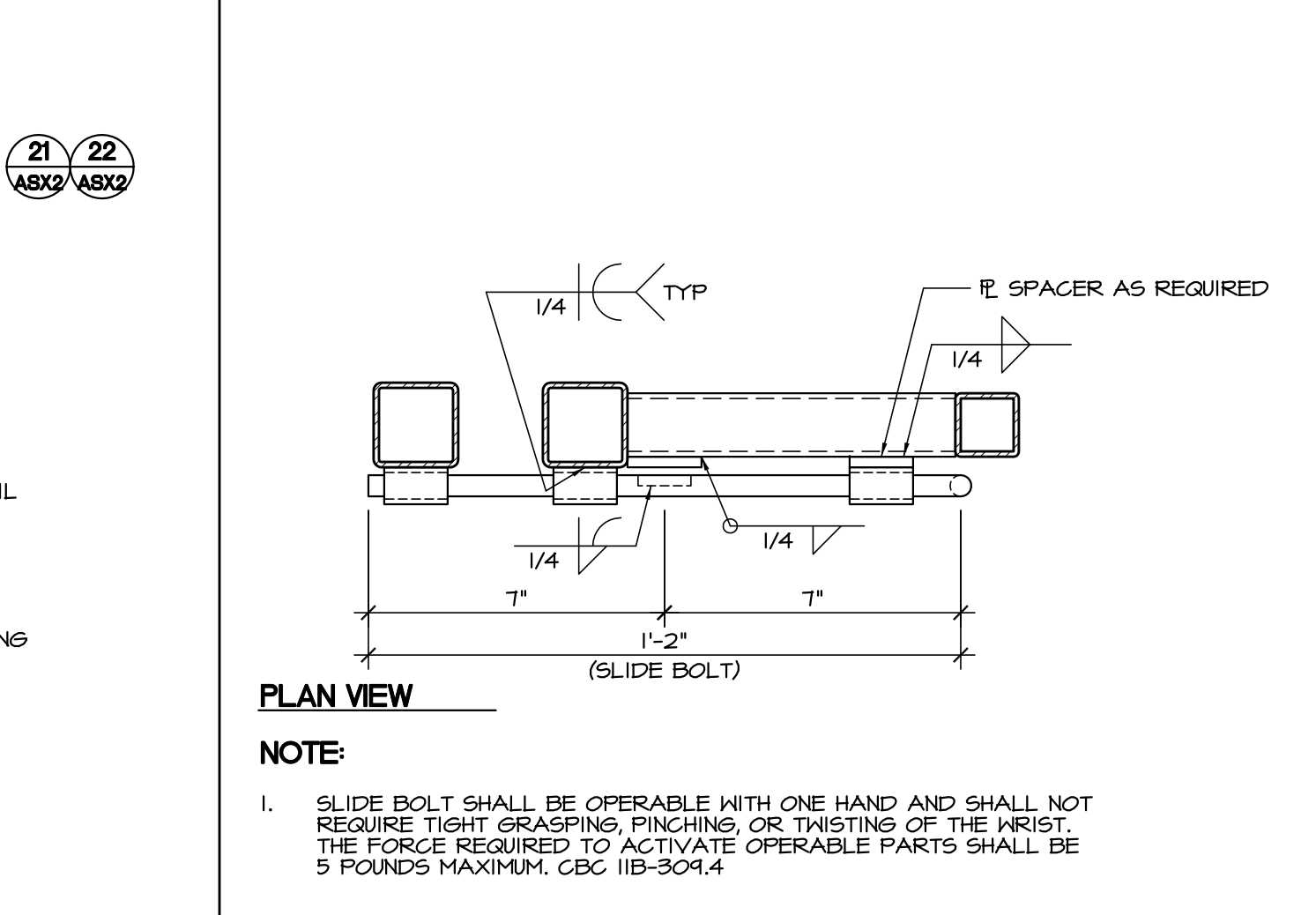
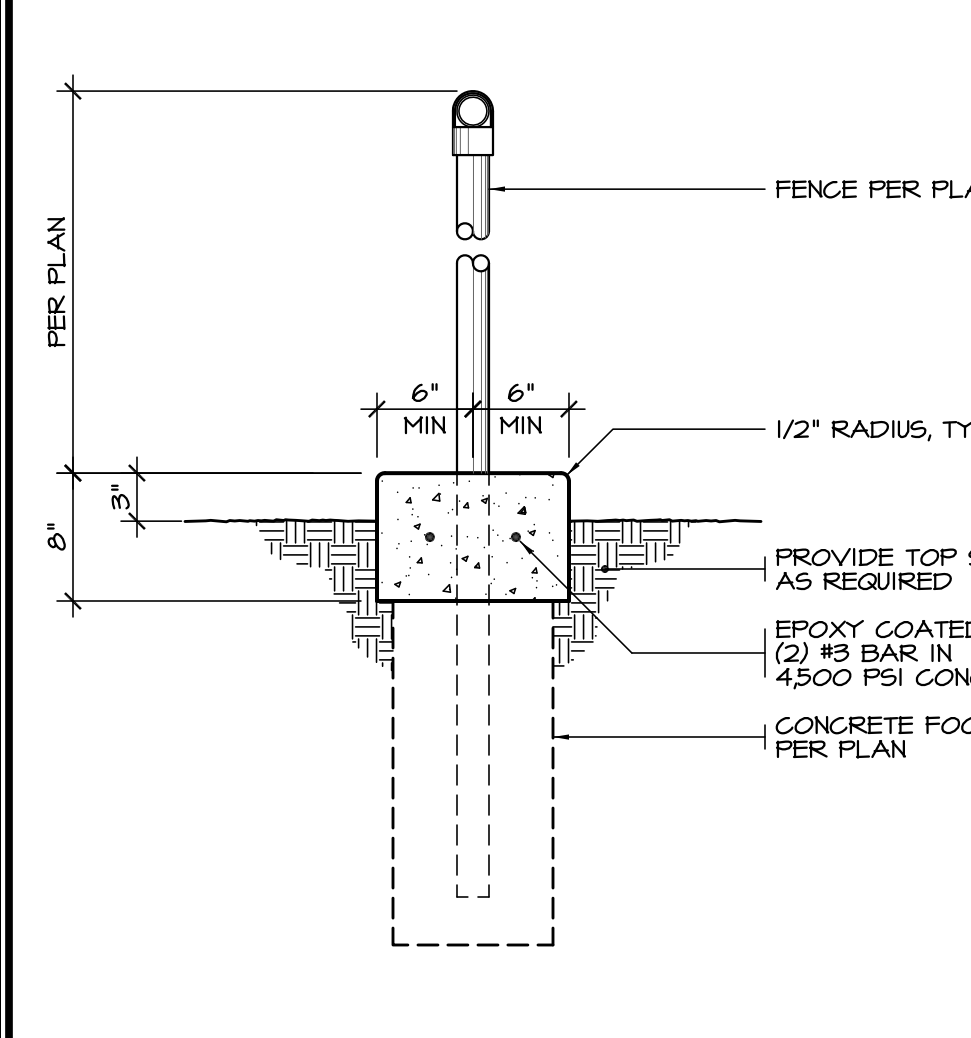
Document Date 09-23-18	Project Number 18-25CX
Date Last Revised	Sheet Number ASX1



STEEL GATE w/ MASONRY COLUMNS

GATE CANE BOLT

GROUND SET FLAGPOLE



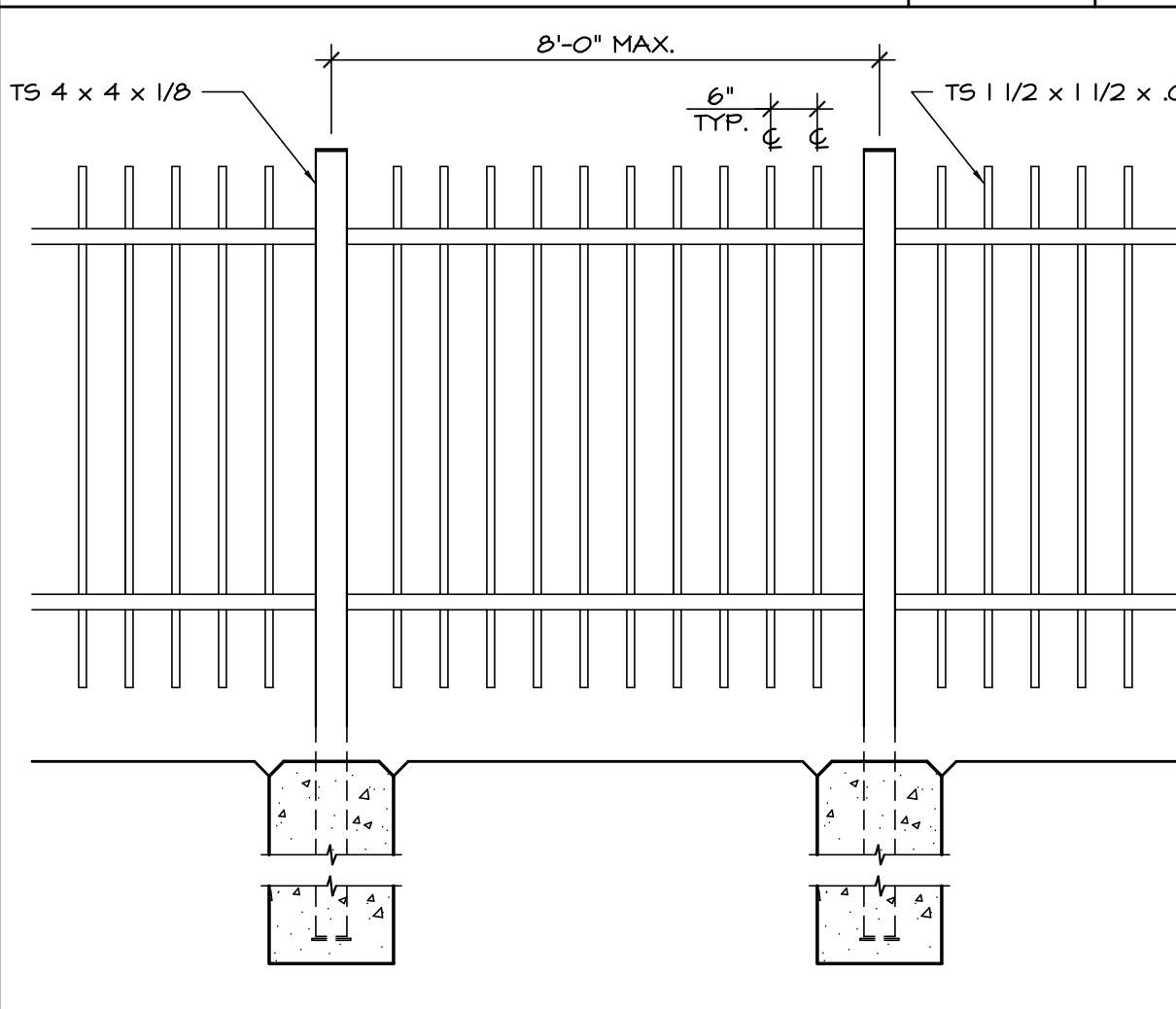
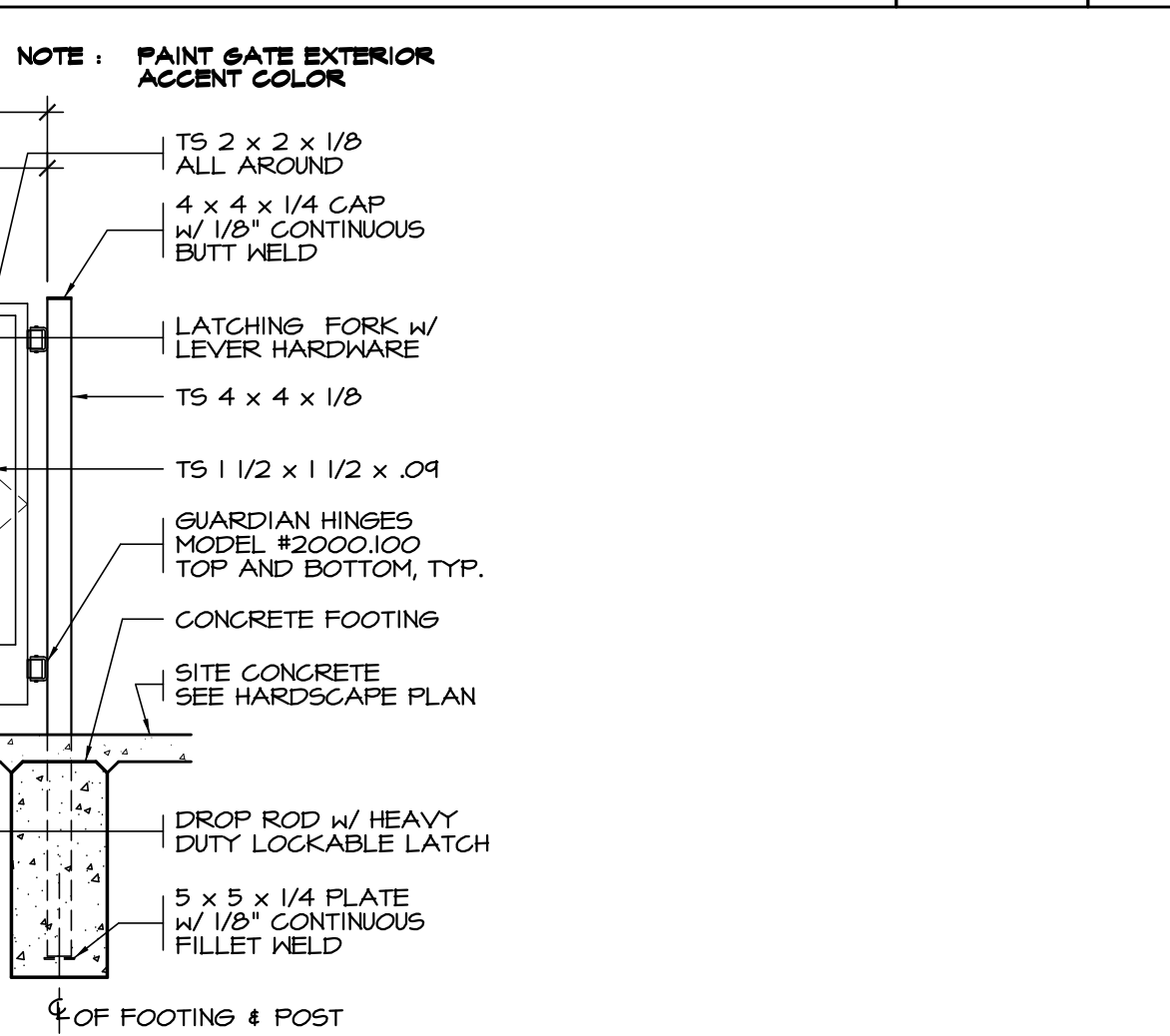
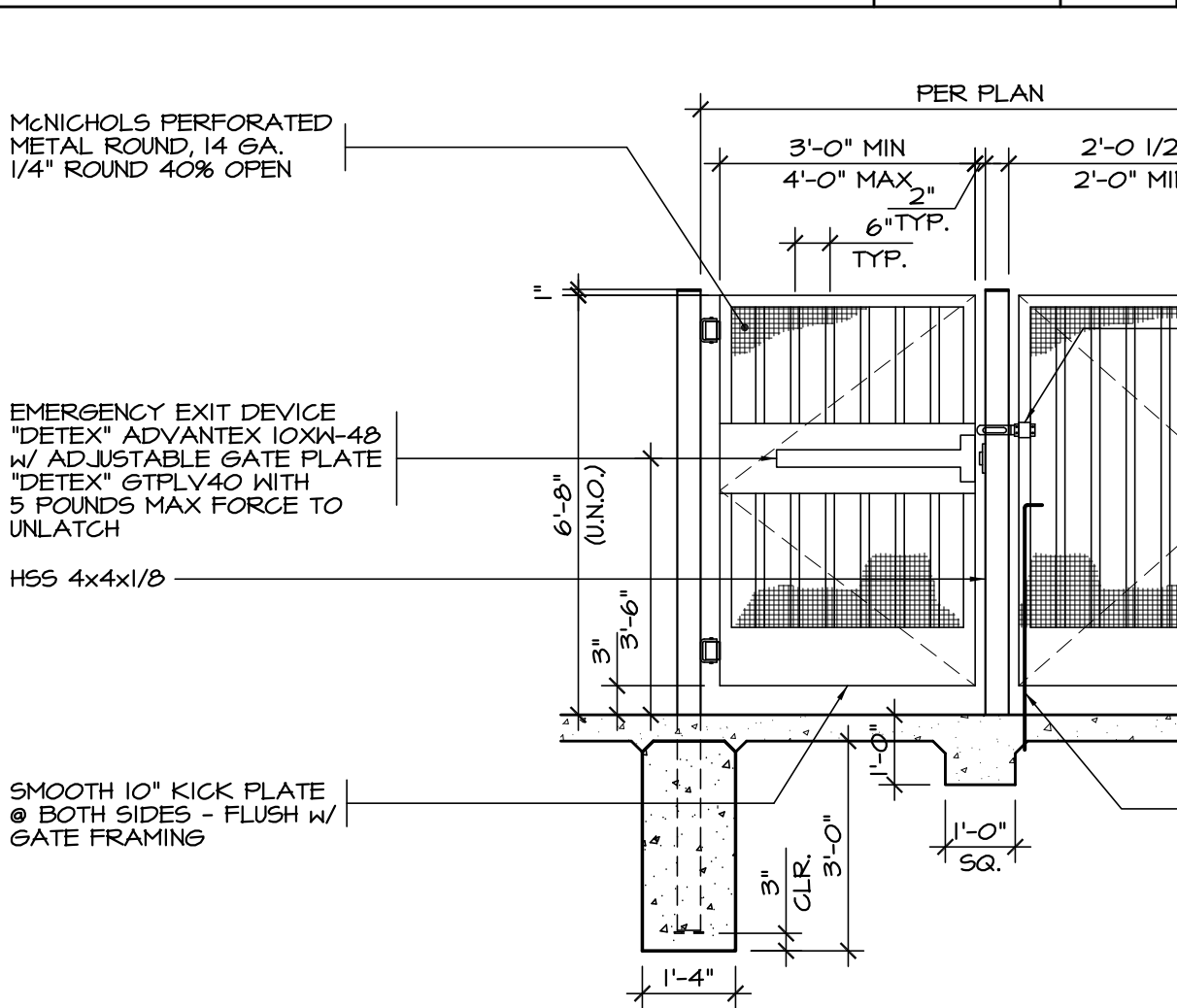
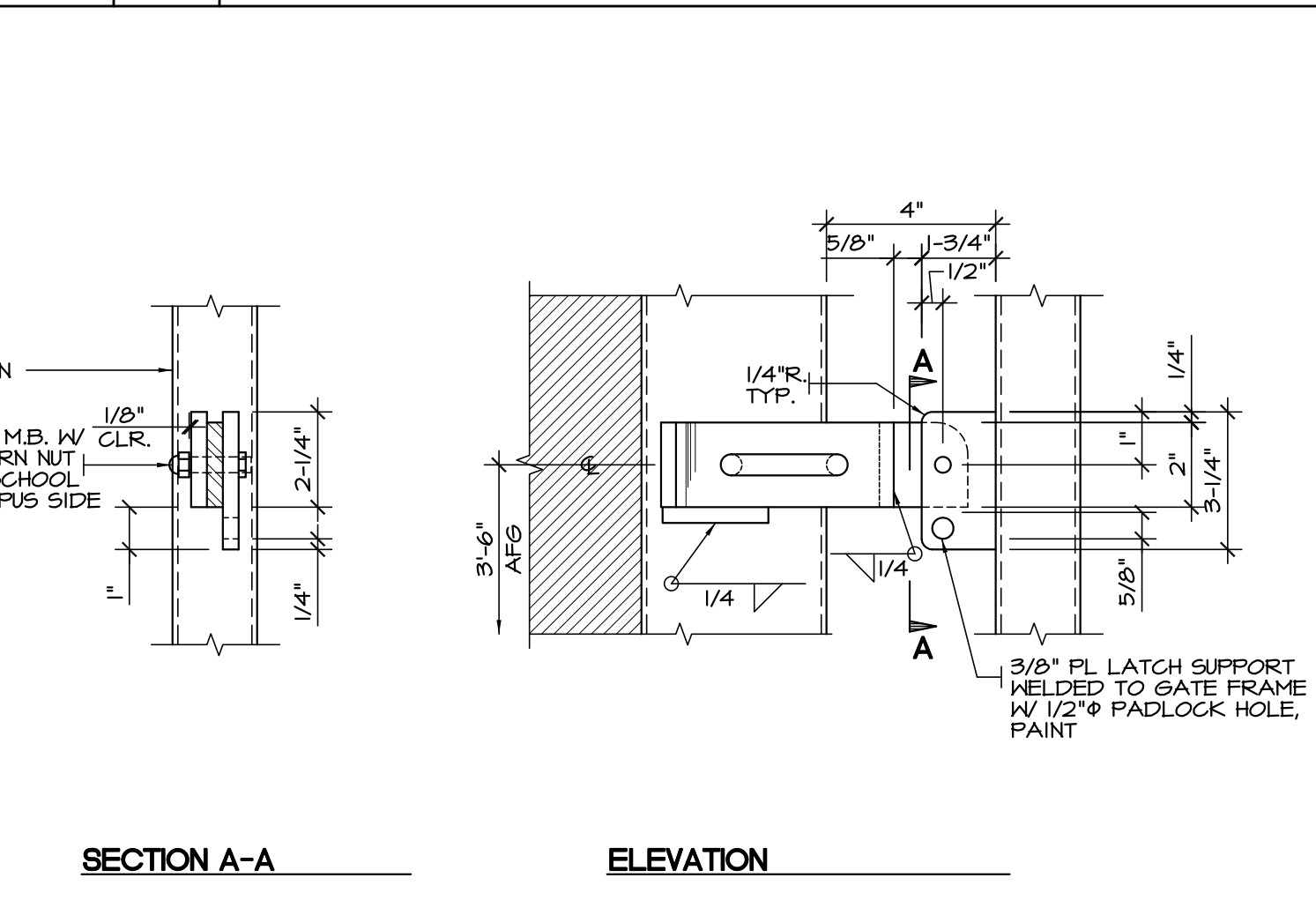
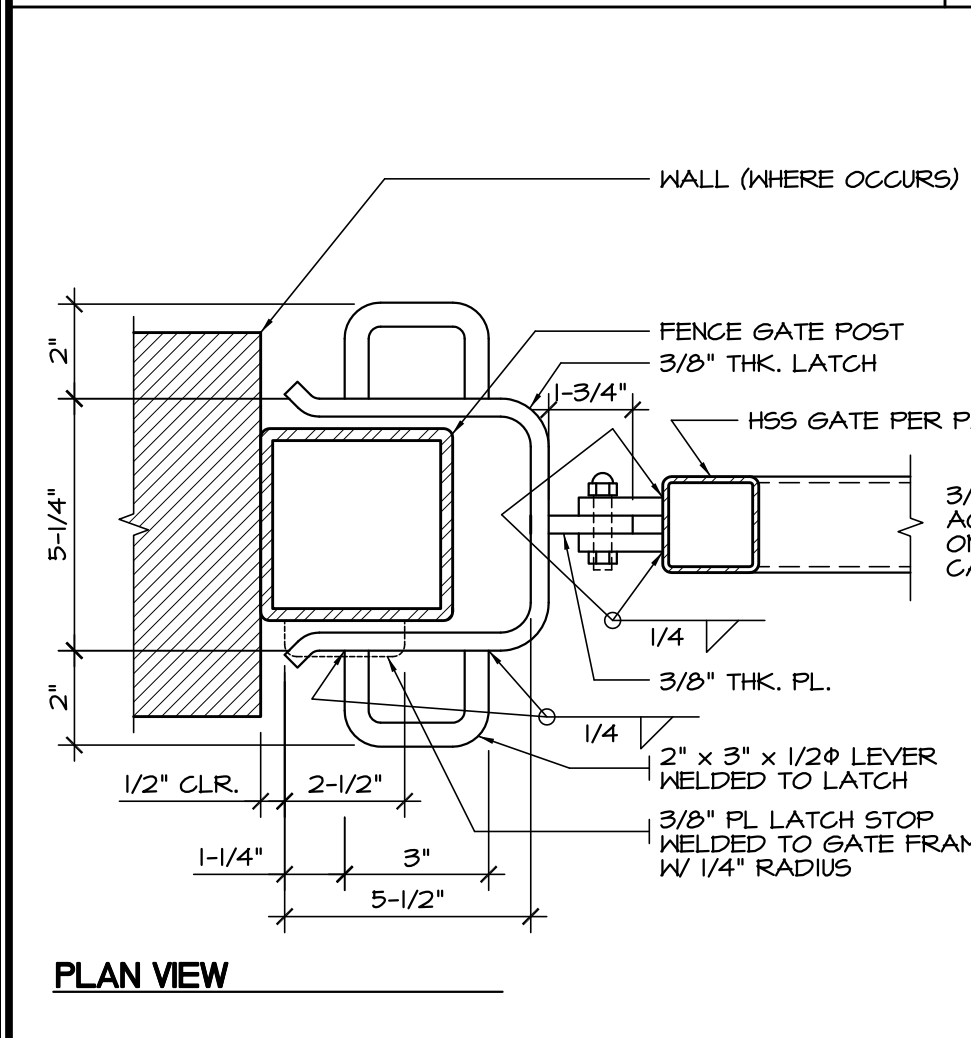
CURB AT FENCE

GATE SLIDE BOLT

STEEL GATE

DECOMPOSED GRANITE PAVING

CONCRETE MOW CURB

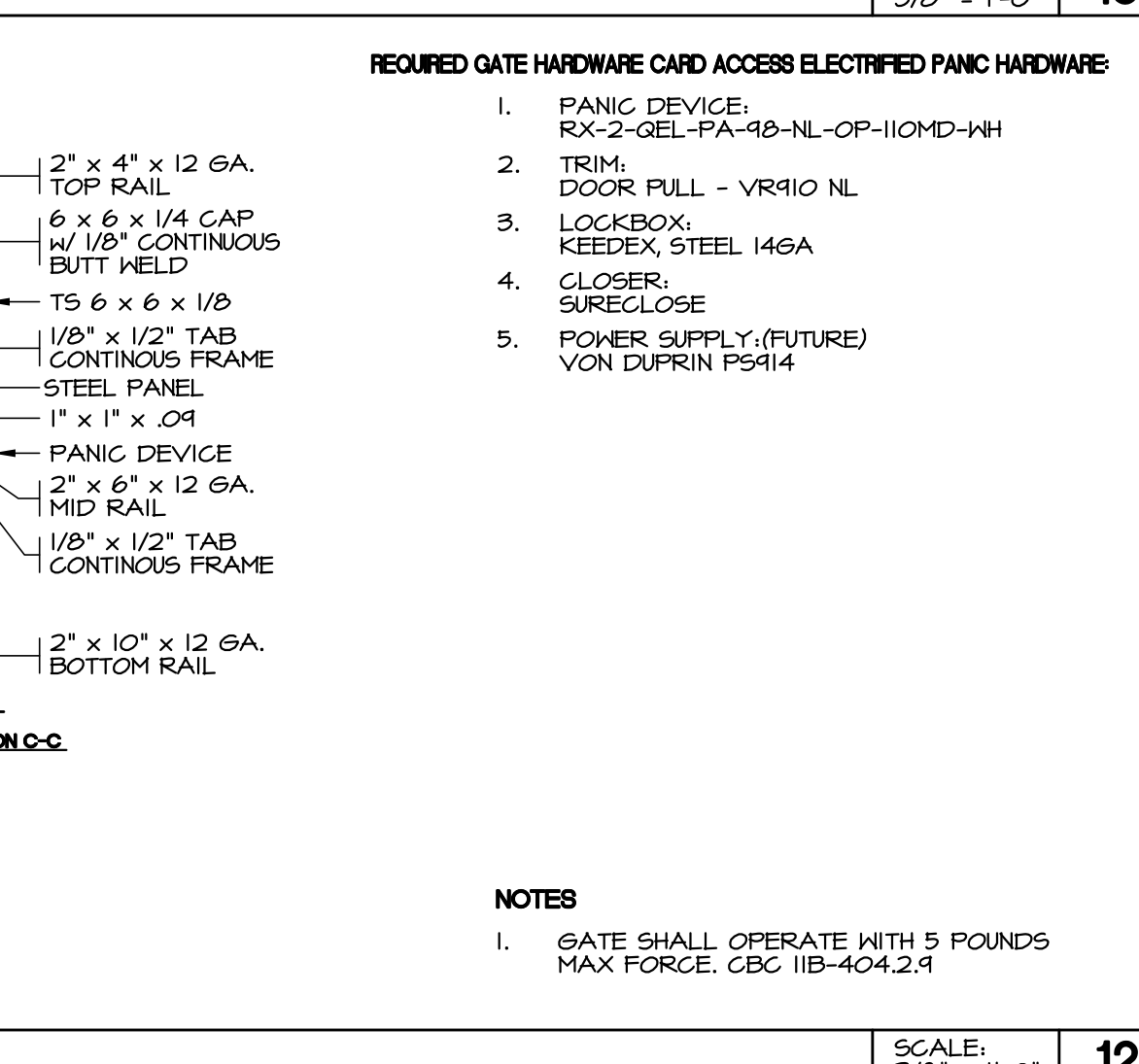
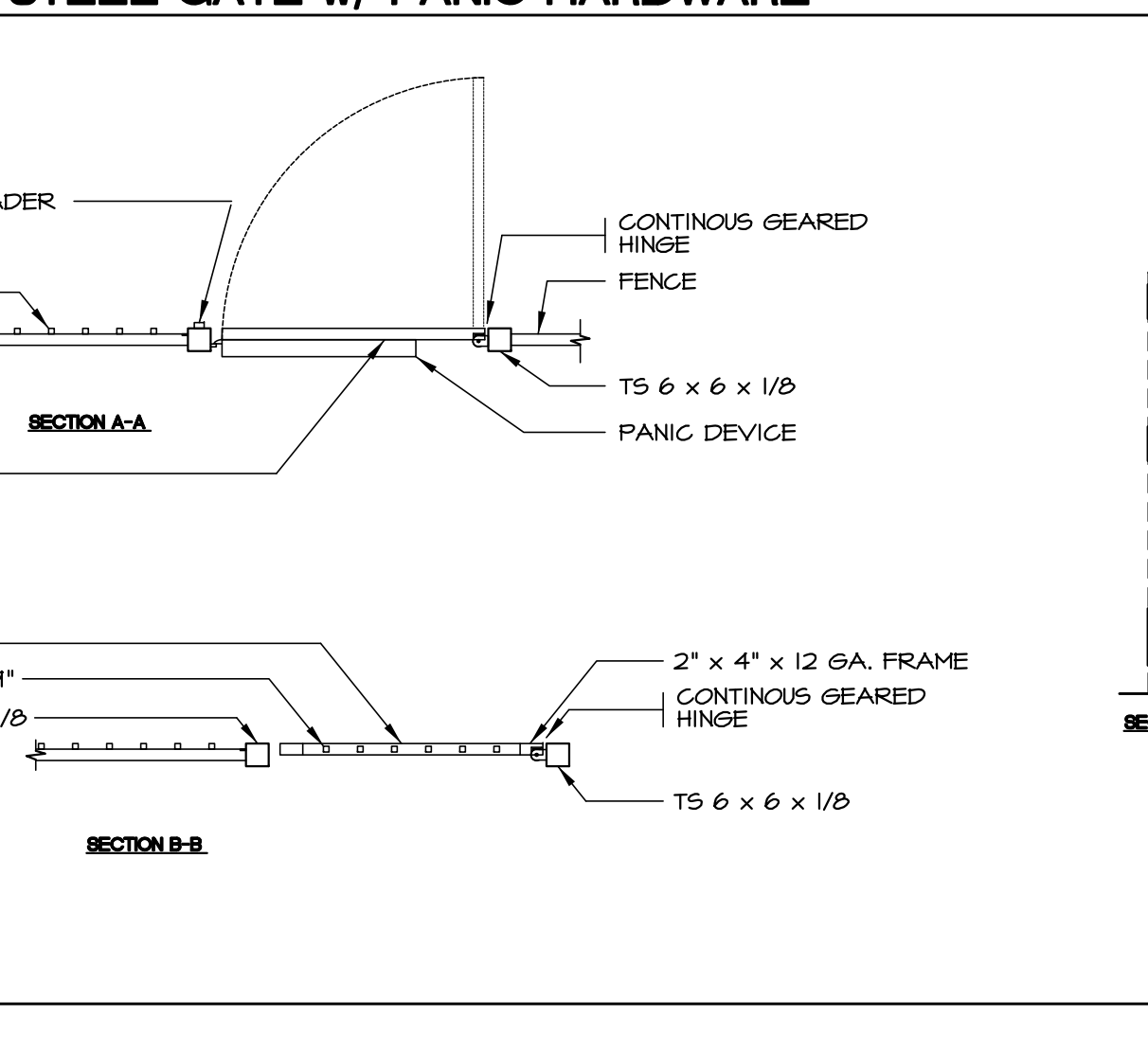
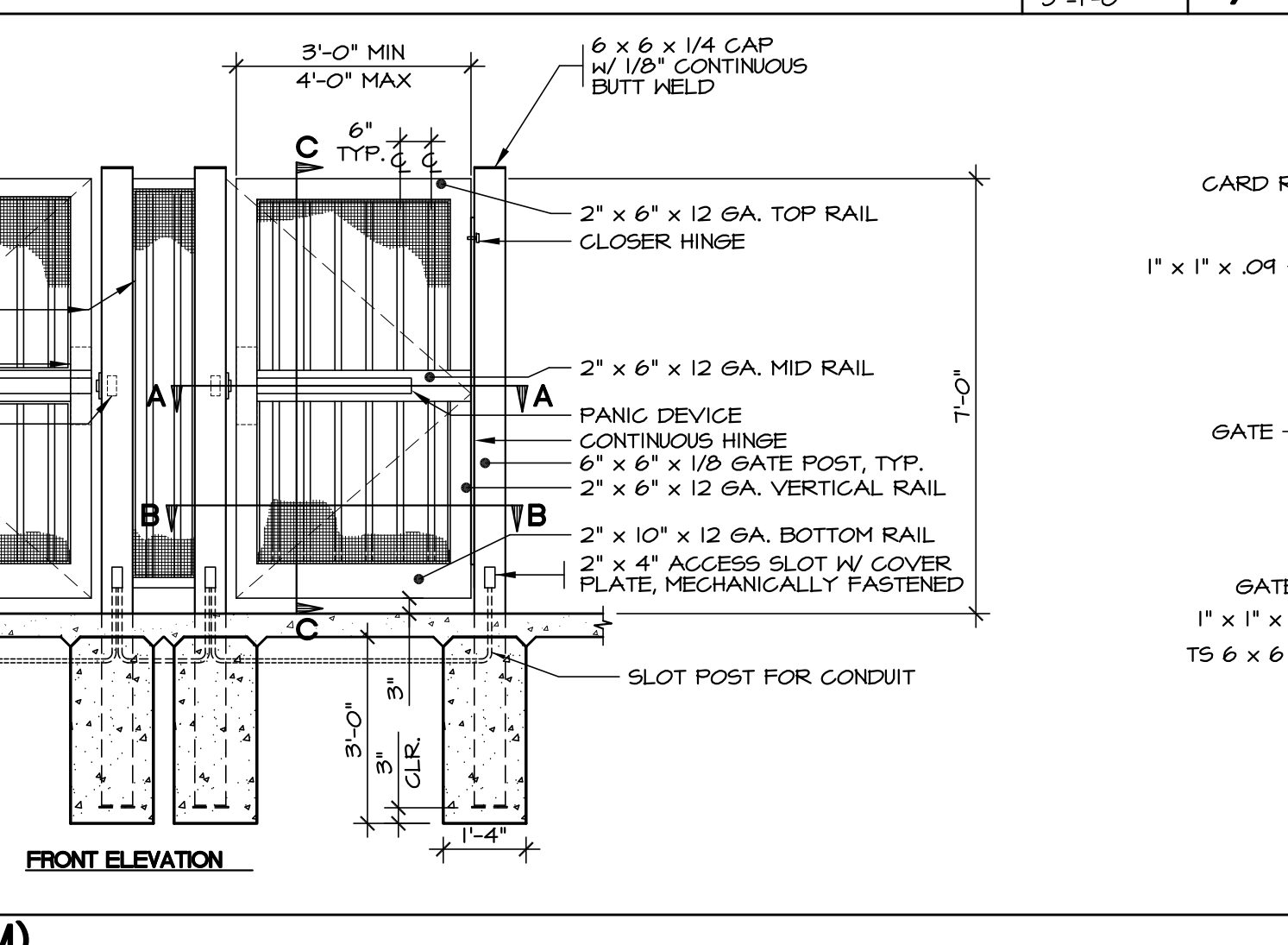
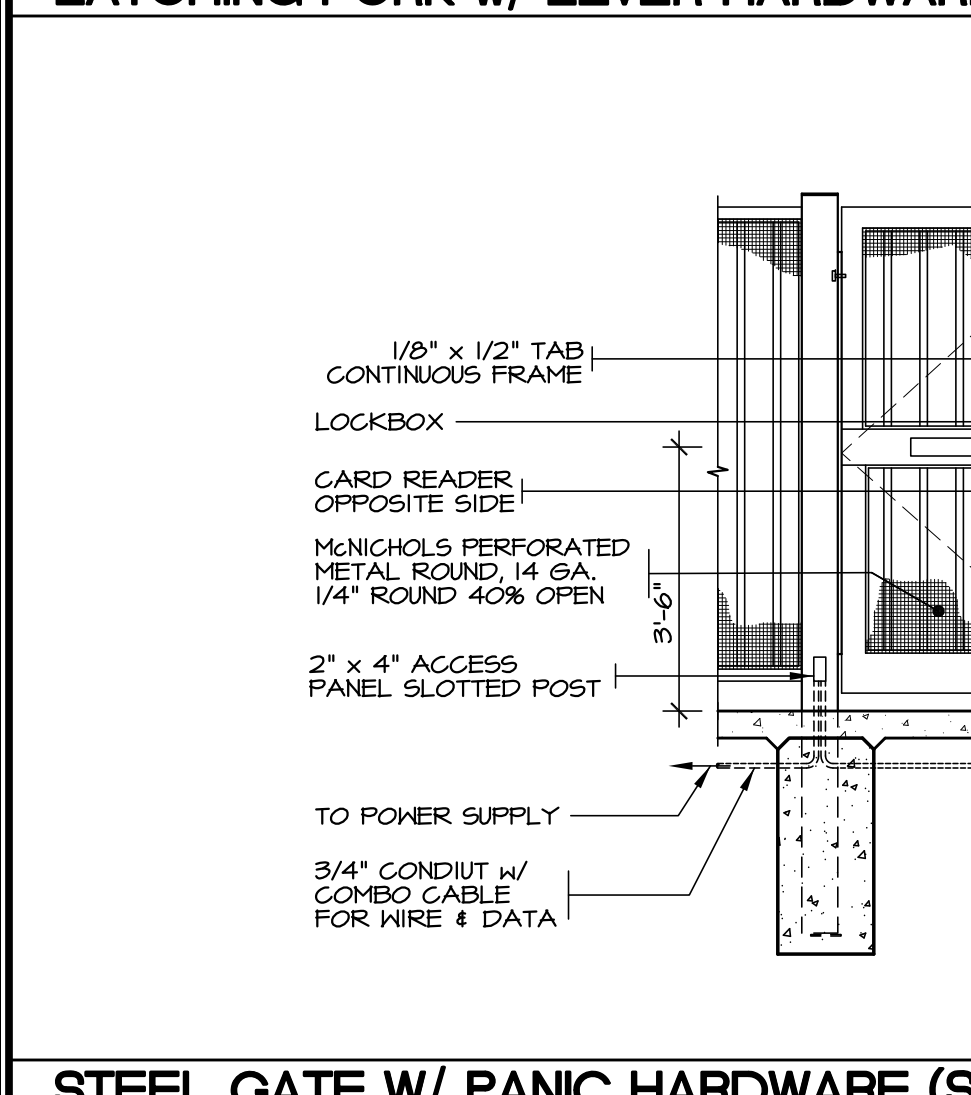


LATCHING FORK w/ LEVER HARDWARE

STEEL GATE w/ PANIC HARDWARE

STEEL FENCE - TYPE B

APPROVALS



STEEL GATE w/ PANIC HARDWARE (SIM)

NOTES

Sanders, Inc.
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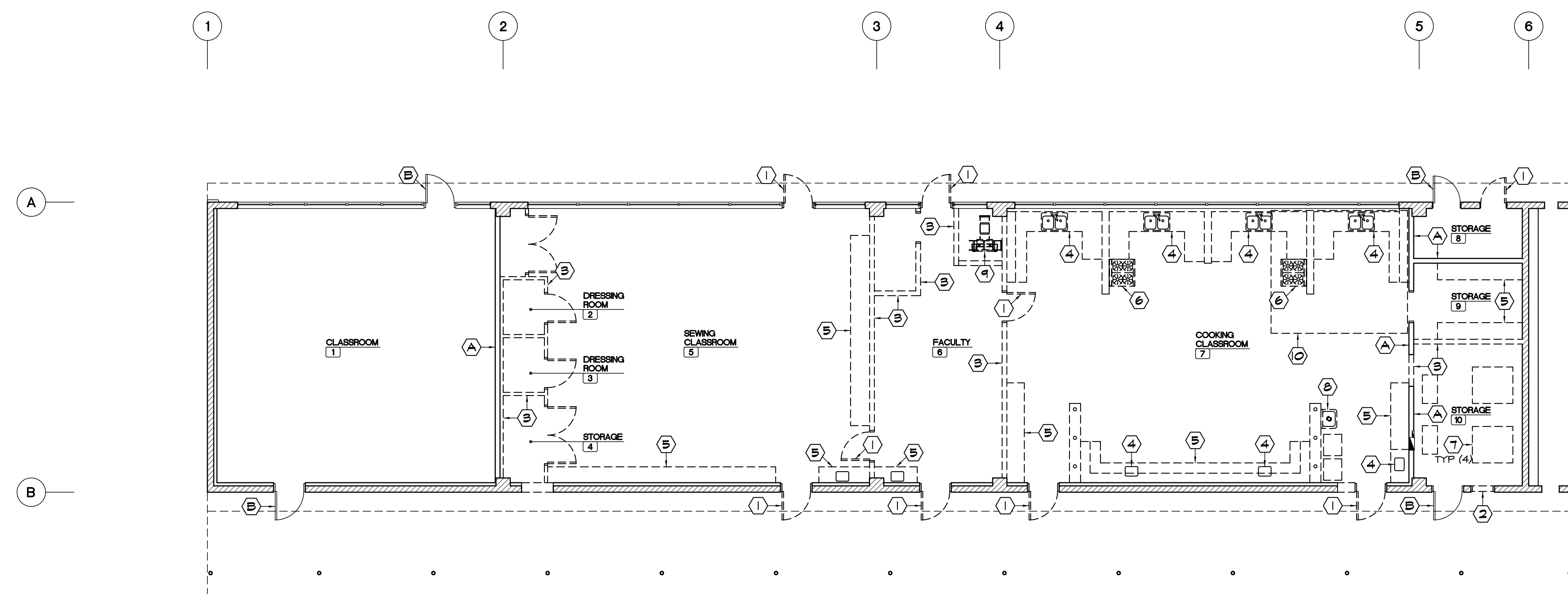
Project Title
**CALEXICO UNIFIED SCHOOL DISTRICT
 CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
TYPICAL SITE DETAILS

Document Date
 09-23-18

Project Number
 18-25CX

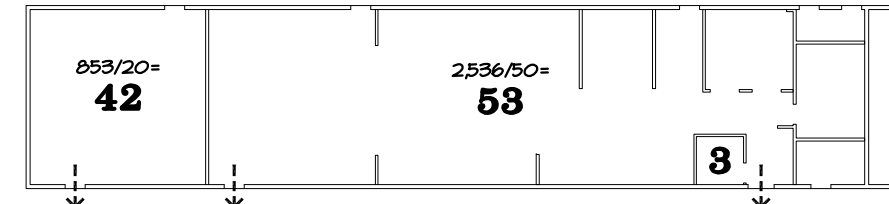
Sheet Number
ASX3



- DEMOLITION KEYNOTES:**
- ① REMOVE EXISTING DOOR, HARDWARE AND DOOR FRAME
 - ② REMOVE EXISTING FRAME VENT OPENING
 - ③ REMOVE EXISTING FRAMED WALL
 - ④ REMOVE EXISTING SINK AND CASEWORK
 - ⑤ REMOVE EXISTING CASEWORK
 - ⑥ REMOVE EXISTING STOVE
 - ⑦ REMOVE EXISTING CONCRETE HOUSE KEEPING PAD, PATCH TO EXISTING FLOOR ELEVATION
 - ⑧ REMOVE EXISTING PLUMBING FIXTURE
 - ⑨ REMOVE AND RELOCATE EXISTING DATA RACK
 - ⑩ REMOVE EXISTING CONCRETE SLAB FOR WALK-IN DEPRESSION SLAB

- KEYNOTES:**
- Ⓐ EXISTING HALL TO REMAIN - PROTECT
 - Ⓑ EXISTING DOOR / WINDOW TO REMAIN - PROTECT

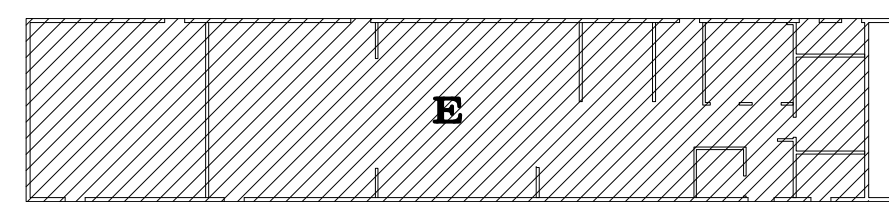
- NOTES:**
1. DEMOLITION KEYNOTES ARE NOT INTENDED TO SHOW ALL DEMOLITION REQUIRED FOR PROPOSED IMPROVEMENTS. CONTRACTOR RESPONSIBLE TO REMOVE ALL EXISTING IMPROVEMENTS / CONDITIONS REQUIRED TO COMPLETE WORK FOR PROPOSED IMPROVEMENTS.
 2. DO NOT ALTER OR DAMAGE ANY EXISTING SHEAR WALLS OR BEARING WALLS UNO.
 3. ALL DEMOLITION SHALL COMPLY WITH CH 34 CBC AND ARTICLE 01 CFC.
 4. REMOVE EXISTING FLOOR FINISHES IN AREAS OF WORK - SEE FLOORING PLAN
 5. SAWCUT EXISTING CONCRETE SLAB FOR NEW PLUMBING FIXTURES, AS REQUIRED - SEE PLUMBING PLANS
 6. REMOVE EXISTING SUSPENDED CEILING, LIGHTING AND HVAC FIXTURES IN AREAS OF WORK - EXISTING POWER AND DUCTWORK TO SUPPLY NEW FIXTURES
 7. REMOVE EXISTING FRAMED CEILING, LIGHTING AND HVAC FIXTURES IN AREAS OF WORK - EXISTING POWER AND DUCTWORK TO SUPPLY NEW FIXTURES



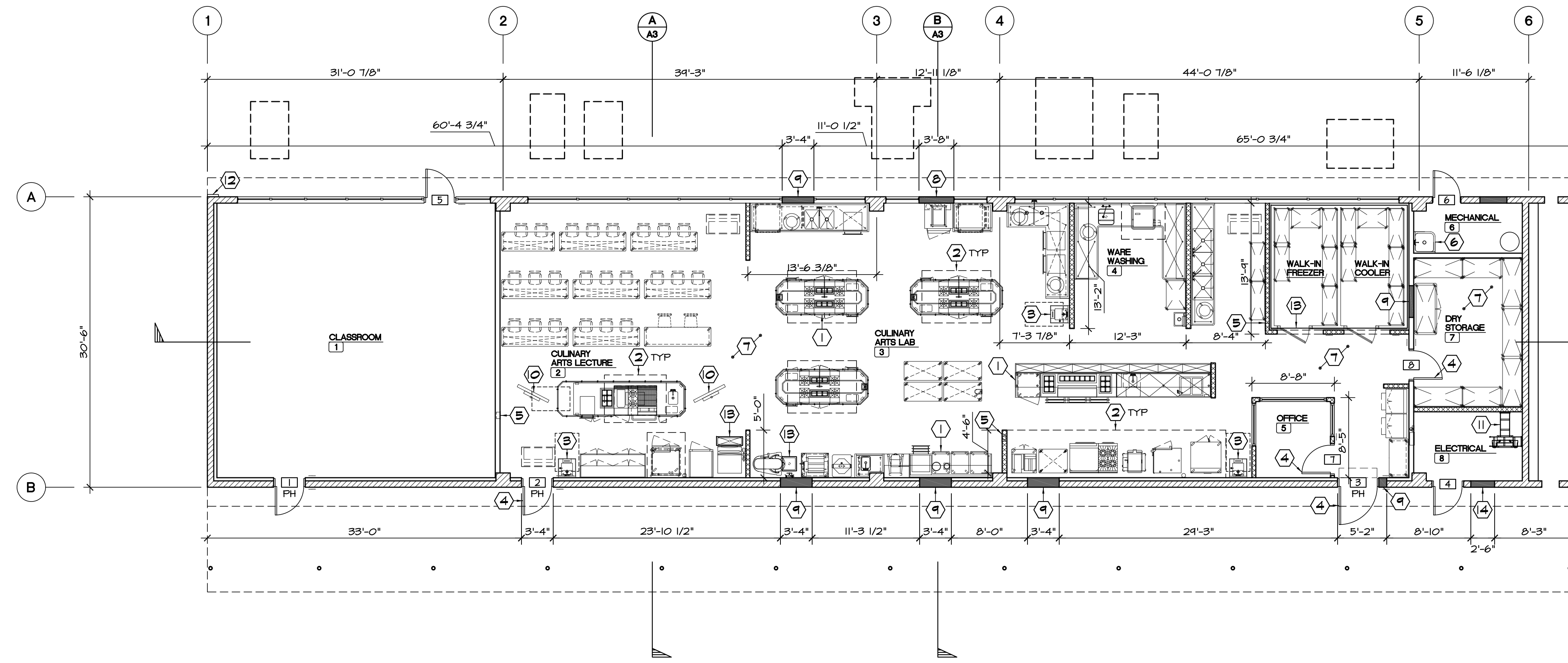
OCCUPANT LOAD: 53 PEOPLE

EXITING PLAN SCALE: 1/8" = 1'-0" C

BUILDING DATA:
 BUILDING 4 - CLASSROOMS
 OCCUPANCY: CLASSROOMS
 CONSTRUCTION TYPE: TYPE E
 FIRE SPRINKLER SYSTEM: NONE
 NUMBER OF STORIES: 1
 CONSTRUCTION AREA: 4160 SQ FT
 BUILDING AREA: 4160 SQ FT
 ALLOWABLE AREA: 4300 SQ FT (TABLE 506.2)
 AREA INCREASE: NONE
 4160 ≤ 4300 = OK



DEMOLITION FLOOR PLAN SCALE: 1/8" = 1'-0" A



- KEYNOTES:**
- ① KITCHEN EQUIPMENT - SEE FOOD SERVICE DRAWINGS
 - ② EXHAUST HOOD TYPE II - SEE FOOD SERVICE DRAWINGS
 - ③ ACCESSIBLE SINK - SEE PLUMBING DRAWINGS
 - ④ NEW DOOR / WINDOW
 - ⑤ FIRE EXTINGUISHER SEMI-RECESSED - TYPE K
 - ⑥ PLUMBING FIXTURE - SEE PLUMBING DRAWINGS
 - ⑦ NEW QUARRY TILE
 - ⑧ EXISTING WINDOW OPENING TO BE INFILLED
 - ⑨ EXISTING DOOR OPENING TO BE INFILLED
 - ⑩ NEW CEILING MTD MONITORS
 - ⑪ RELOCATED DATA RACK
 - ⑫ EXISTING ELECTRICAL PANEL TO REMAIN, PROTECT
 - ⑬ LINE OF RECESSED FLOOR
 - ⑭ EXISTING VENT OPENINGS TO BE INFILLED

- WALL TYPES**
- (E) 8" GRANITE WALL
 - (F) 4" HOOD STUD WALL
 - NEW 6" METAL STUD (NON BEARINGS)
 - NEW 4" METAL STUD (NON BEARINGS)

- LEGEND:**
- DOOR NUMBER - SEE DOOR SCHEDULE
 - PH PANG HARDWARE

- NOTES:**
1. 5% MIN OF EACH TYPE OF FURNITURE ITEMS TO MEET ACCESSIBILITY REQUIREMENTS PER 2016 CBC.
 2. ALL FURRINGS ON EXTERIOR WALLS TO HAVE BATT INSULATION (R-11 @ 6", R-11 @ 4")
 3. ALL FRAMED INTERIOR WALLS TO HAVE SOUND ATTENUATION BATT INSULATION.
 4. FLAME SPREAD RATINGS FOR WALL INSULATION NOT TO EXCEED 25 AND SMOKE DEVELOPED INDEX NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.

OCCUPANCY PLAN SCALE: 1/8" = 1'-0" D

- LEGEND:**
- 30" x 48" CLEAR FLOOR SPACE (2% MAX SLOPE IN ALL DIRECTIONS)
 - 60" DIAMETER CLEAR FLOOR SPACE (2% MAX SLOPE IN ALL DIRECTIONS)
 - 60" x 60" CLEAR FLOOR SPACE AT FULL SIDE OF EXTERIOR DOOR (2% MAX SLOPE IN ALL DIRECTIONS)
 - 60" x 34" CLEAR SPACE AT FULL SIDE OF INTERIOR DOOR (2% MAX SLOPE IN ALL DIRECTIONS)
 - 48" x 48" CLEAR SPACE AT PUSH SIDE OF DOOR (2% MAX SLOPE IN ALL DIRECTIONS)

APPROVALS

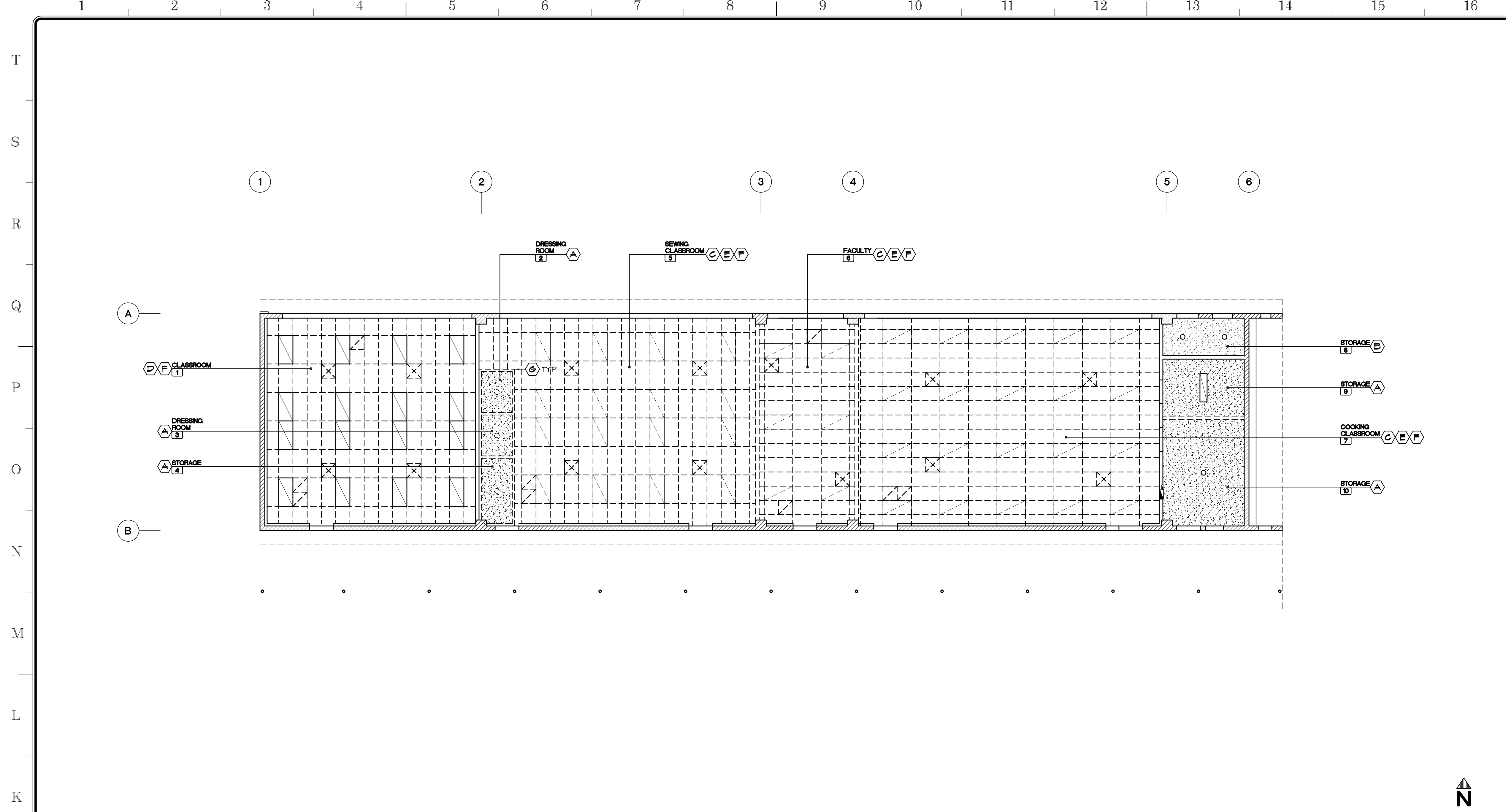
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Project Title
**CALEXICO UNIFIED SCHOOL DISTRICT
 CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

DEMOLITION AND FLOOR PLANS

	Document Date	Project Number
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FLOOR PLAN SCALE: 1/8" = 1'-0" B

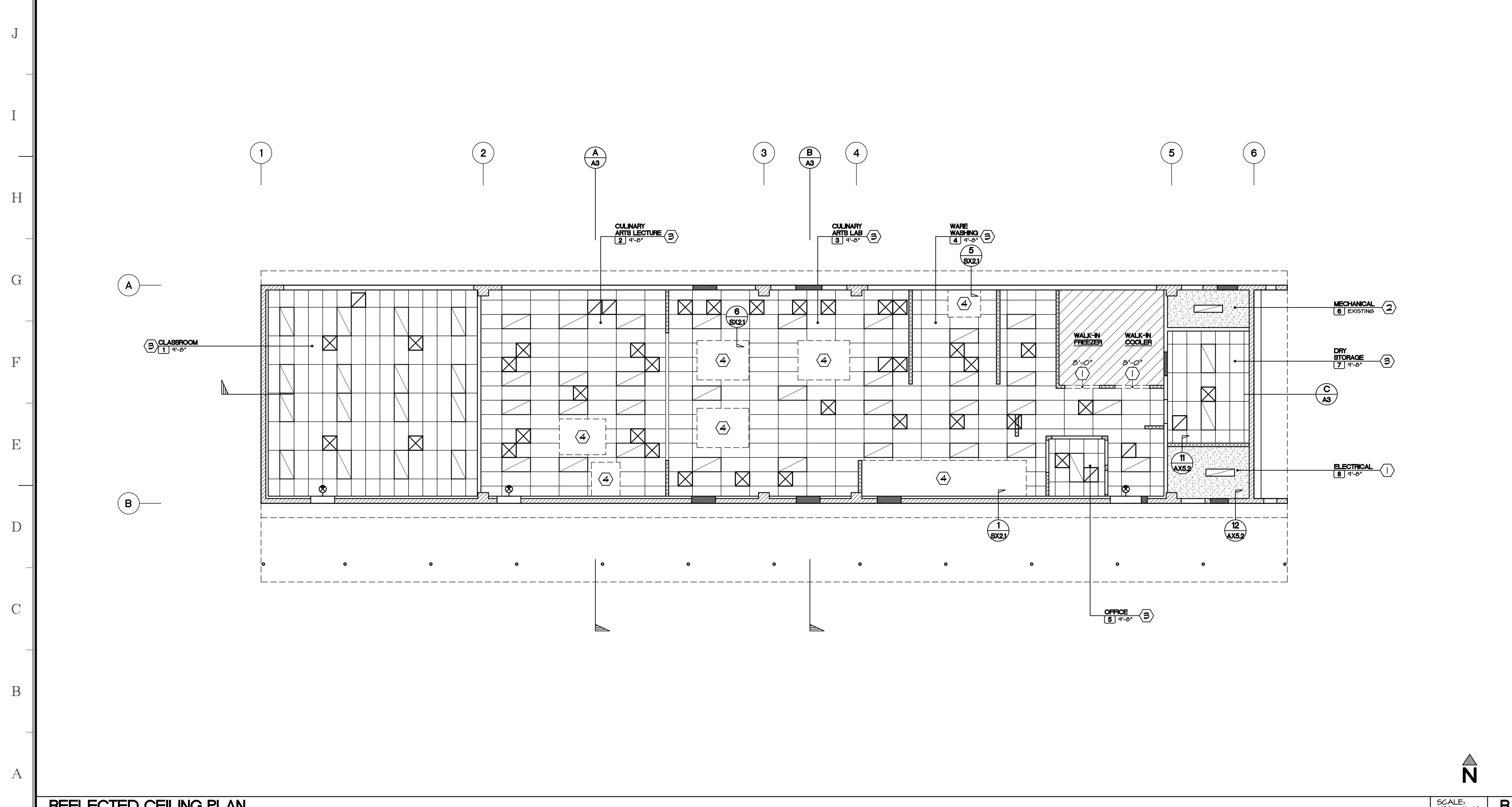


- DEMOLITION CEILING KEYNOTES**
- (A) EXISTING GYPSUM BOARD CEILING TO BE REMOVED
 - (B) EXISTING GYPSUM BOARD CEILING TO REMAIN
 - (C) EXISTING SUSPENDED CEILING GRID TO BE REMOVED
 - (D) EXISTING LIGHT FIXTURE TO BE REMOVED AND REINSTALLED
 - (E) EXISTING LIGHT FIXTURE TO BE REMOVED
 - (F) EXISTING HVAC RETURN AND SUPPLY GRILLS TO BE REMOVED AND RELOCATED
 - (G) EXISTING NON BEARING WALL TO BE REMOVED

NOTES:
 THE ENTIRE CEILING IN THE AFFECTED SPACE SHALL BE UPGRADED TO MEET THE CURRENT REQUIREMENTS OF THE 2016 CBC AND CSA 10.25-2.19 SECTION 4 (REVISION 1/8/17) IF ANY PORTION OF THE GRID SYSTEM IS CUT OR ALTERED AND THE CEILING HAS NO LATERAL BRACING ASSEMBLIES (4-HAY SPRAY WIRES AND COMPRESSION POST) OR HAS LATERAL BRACING ASSEMBLIES SPACED MORE THAN 12 FEET ON-CENTER.

REFLECTED CEILING PLAN DEMOLITION

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



- REFLECTED CEILING KEYNOTES:**
- (1) GYPSUM BOARD - PAINT PRIME COLOR, TEXTURE TO MATCH WALLS
 - (2) EXISTING GYPSUM BOARD - PATCH AND REPAIR AS REQUIRED - PAINT
 - (3) SCRUBBABLE CEILING TILES - SEE SPECIFICATIONS
 - (4) CULINARY ARTS EXHAUST HOOD CEILING ENCLOSURE - SEE FOOD SERVICE DRAWINGS

- LEGEND:**
- [Symbol] FLUORESCENT LIGHT FIXTURE - CONNECT TO EXISTING ELECTRICAL PANEL, CONTRACTOR TO BALANCE
 - [Symbol] FLUORESCENT LIGHT FIXTURE - CONNECT TO EXISTING ELECTRICAL PANEL, CONTRACTOR TO BALANCE
 - [Symbol] LIGHT FIXTURE
 - [Symbol] CEILING DIFFUSER - SUPPLY AIR - CONNECT TO EXISTING HVAC SYSTEM, CONTRACTOR TO BALANCE AIR SUPPLY
 - [Symbol] RETURN AIR REGISTER - CONNECT TO EXISTING HVAC SYSTEM, CONTRACTOR TO BALANCE AIR SUPPLY
 - [Symbol] NEW EXHAUST FAN, 5 AIR CHANGES P/H MIN, CONNECT TO EXISTING POWER CIRCUIT
 - [Symbol] GYPSUM BOARD - PAINT
 - [Symbol] 2' x 4' LAY-IN CEILING TILES

NOTES:

1. SEE SHEET (9) FOR NOTES AND DETAILS.
2. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR FIXTURES AND EQUIPMENT.

REFLECTED CEILING PLAN

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

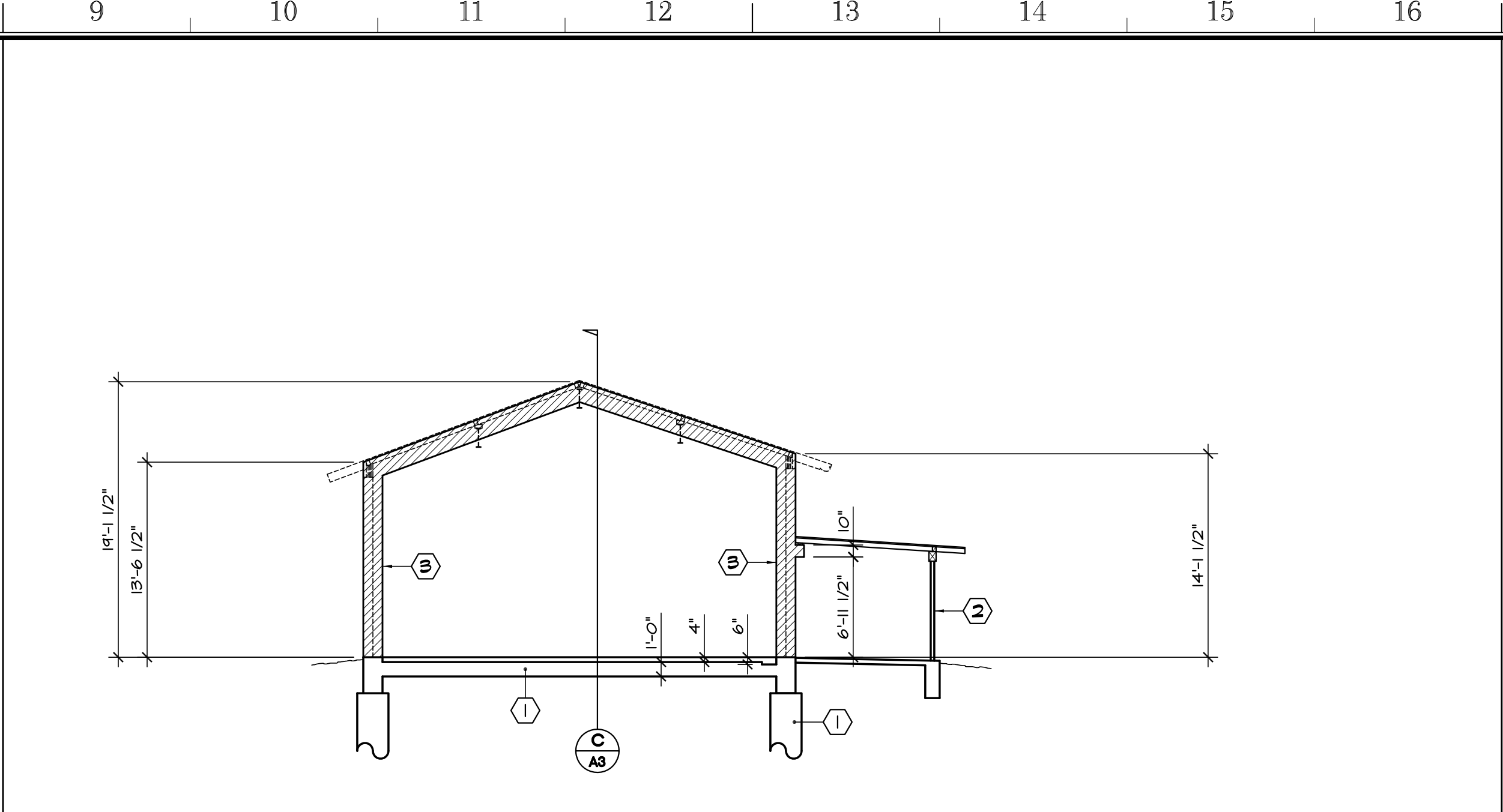
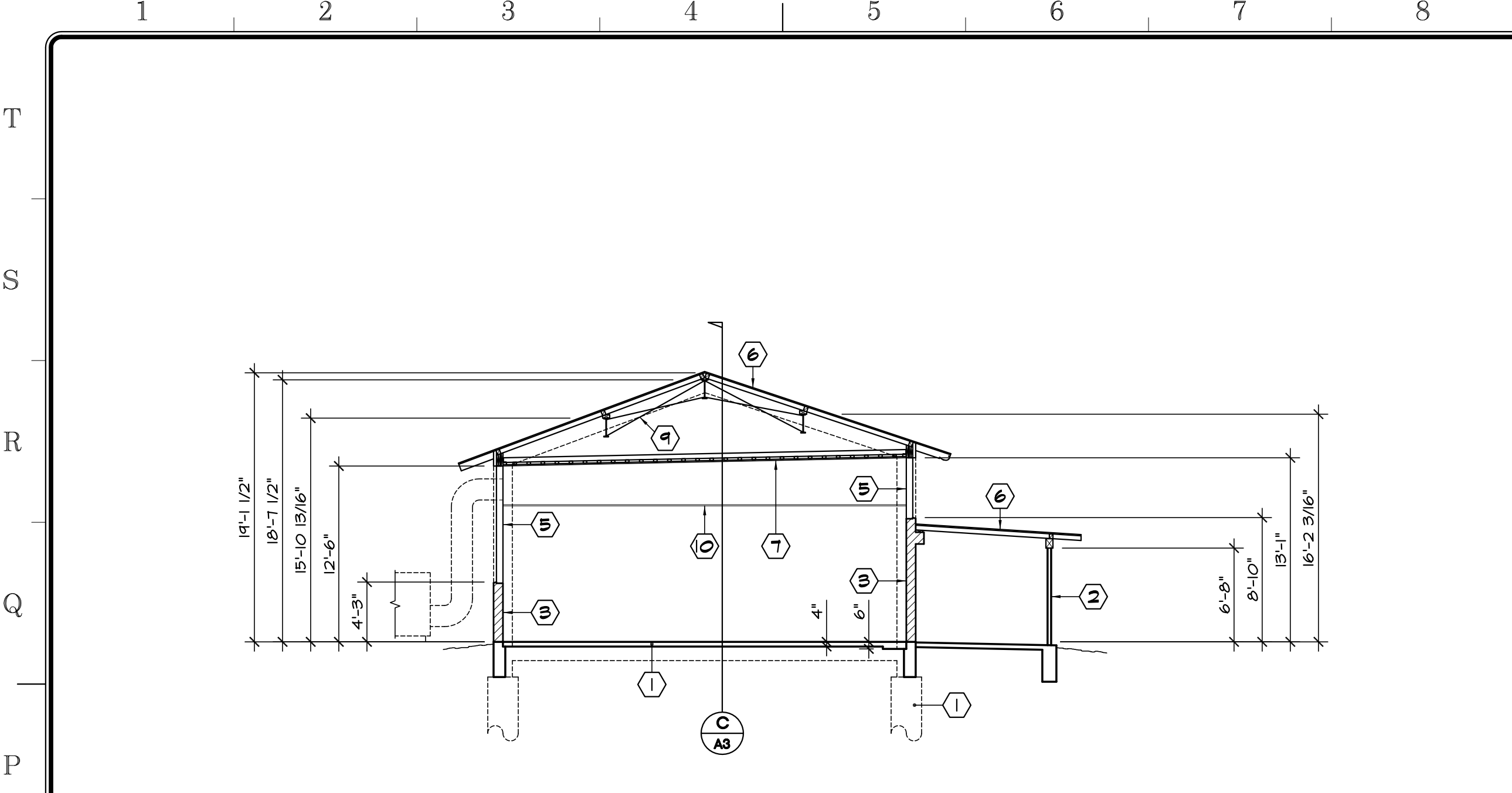
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Sheet Title
**DEMOLITION AND REFLECTED
 CEILING PLAN**

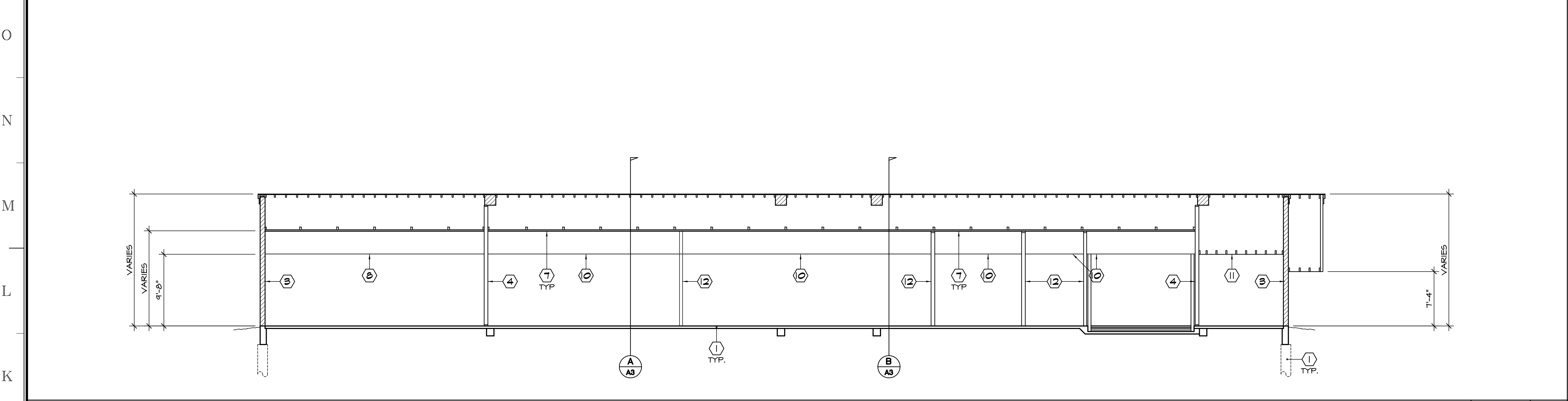
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SECTION A SCALE: 1/8" = 1'-0"

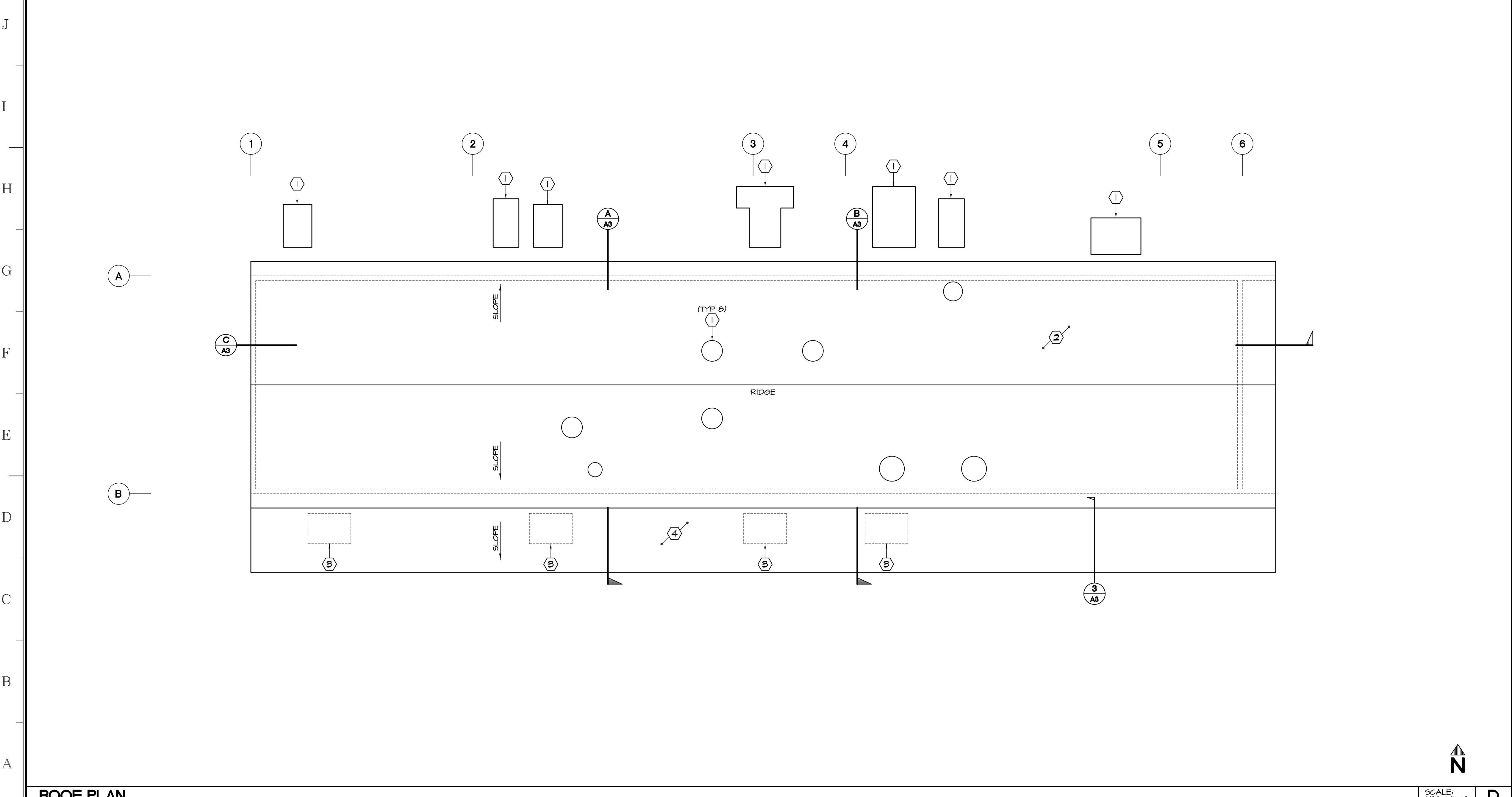
SECTION (RIGID FRAME) B SCALE: 1/8" = 1'-0"

- SECTION KEYNOTES:**
- ① EXISTING CONCRETE FOUNDATION
 - ② EXISTING STEEL COLUMN
 - ③ EXISTING CONCRETE WALL - PROTECT
 - ④ EXISTING STUD WALL - PROTECT
 - ⑤ EXISTING 3x6 MULLION - PROTECT
 - ⑥ EXISTING ASPHALT SHINGLE ROOF - PROTECT
 - ⑦ EXISTING FRAMED CEILING - PROTECT
 - ⑧ EXISTING SUSPENDED CEILING - PROTECT
 - ⑨ EXISTING CROSS BRACING AT ROOF BEAMS
 - ⑩ NEW SUSPENDED CEILING - SEE CEILING PLAN DRAWINGS
 - ⑪ NEW HARDLID CEILING - SEE CEILING PLAN DRAWINGS
 - ⑫ NEW STUD WALL TO BOTTOM OF FRAMED CEILING - SEE FLOOR PLAN DRAWINGS

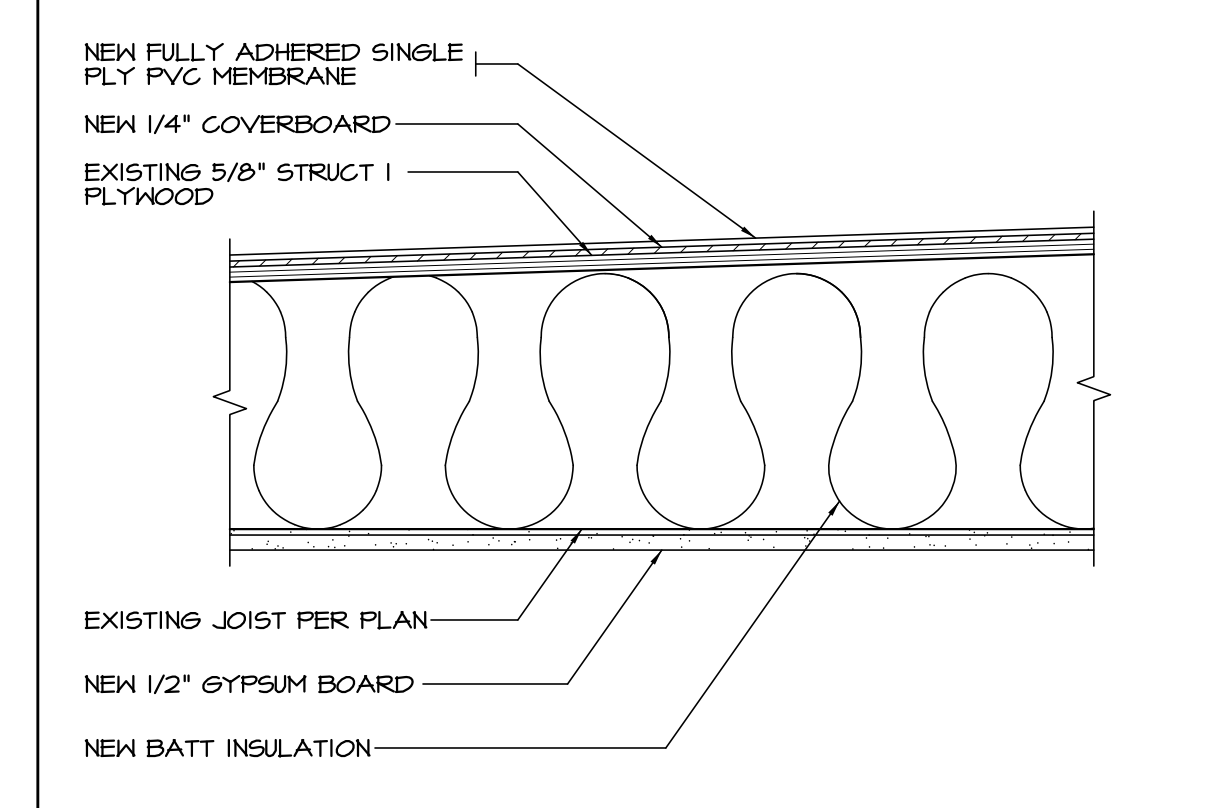


SECTION C SCALE: 1/8" = 1'-0"

- ROOF PLAN KEYNOTES:**
- ① NEW MECHANICAL EQUIPMENT - SEE MECHANICAL DRAWINGS
 - ② EXISTING ASPHALT SHINGLE ROOF - PROTECT
 - ③ EXISTING MECHANICAL EQUIPMENT TO BE REMOVED, EXISTING OPENINGS TO BE FILLED AS REQUIRED
 - ④ NEW ROOFING OVER EXISTING STRUCTURE



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



ROOFING ASSEMBLY - INSULATED E SCALE: 3/4" = 1'-0"

- NOTES:**
1. ALL ROOFS TO BE CLASS A (UNO) w/ 1.5MM REINFORCED PVC MEMBRANE OVER 1/4" COVERBOARD.
 2. CONTRACTOR RESPONSIBLE TO VERIFY EXACT PLACEMENT OF ROOF MOUNTED MECHANICAL EQUIPMENT TO AVOID CONFLICTS WITH ELECTRICAL ITEMS, PLUMBING LINES, OR OTHER MECHANICAL EQUIPMENT.

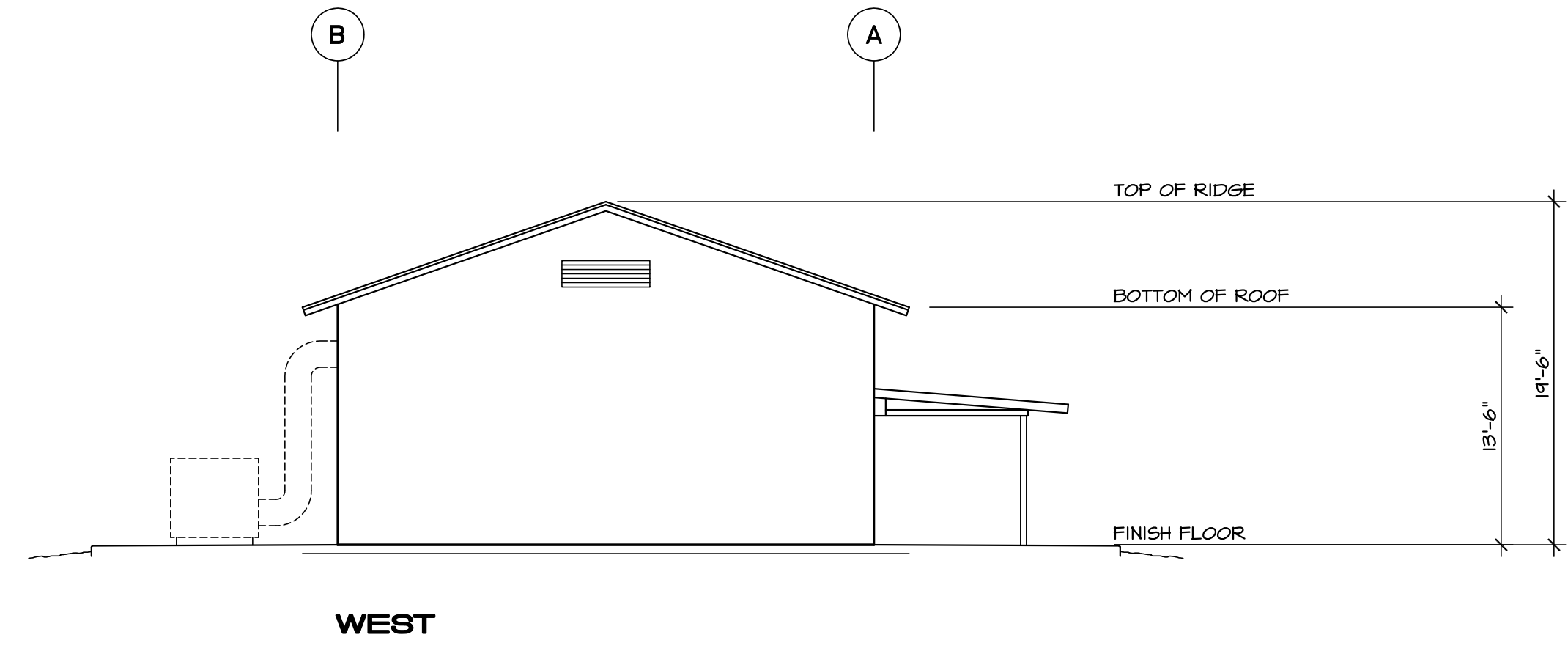
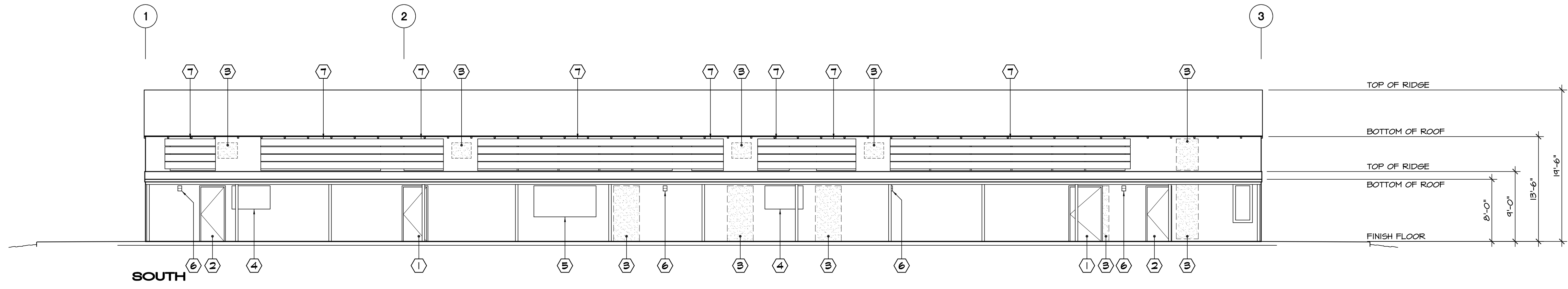
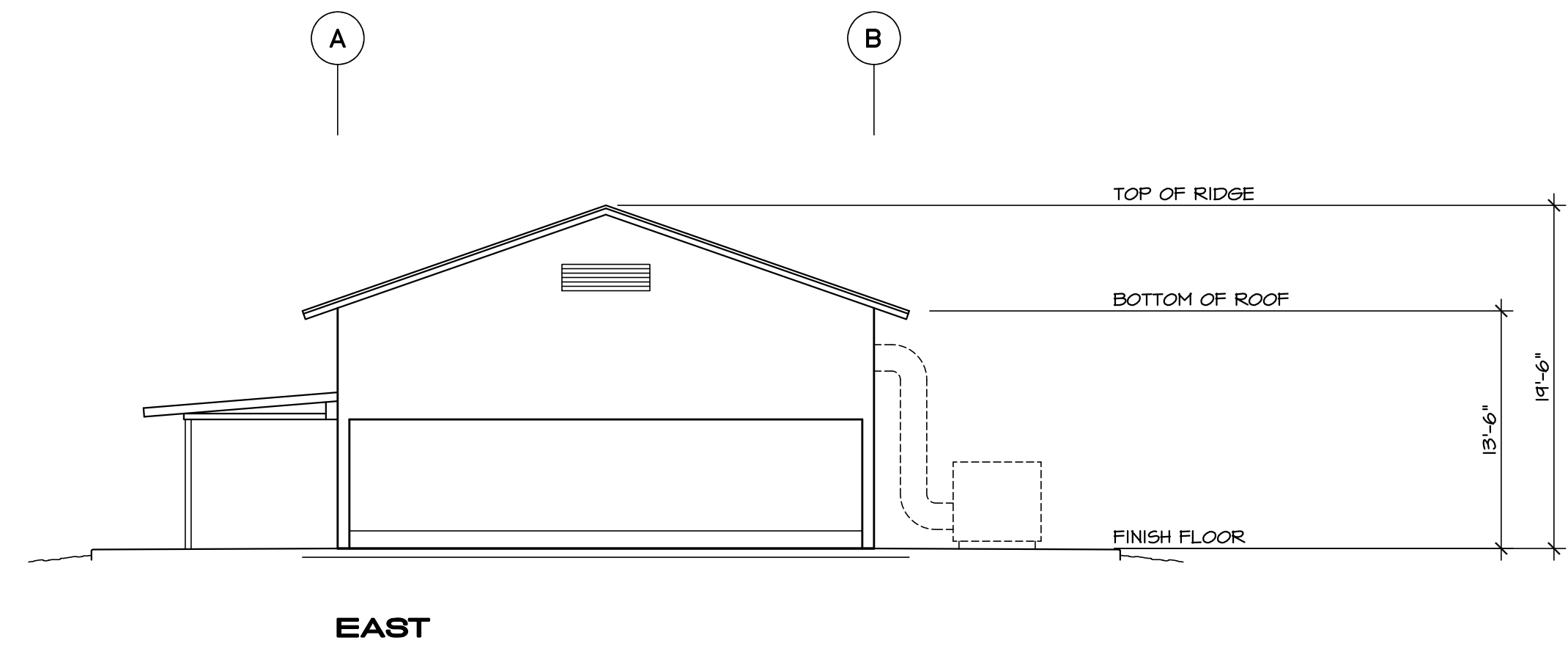
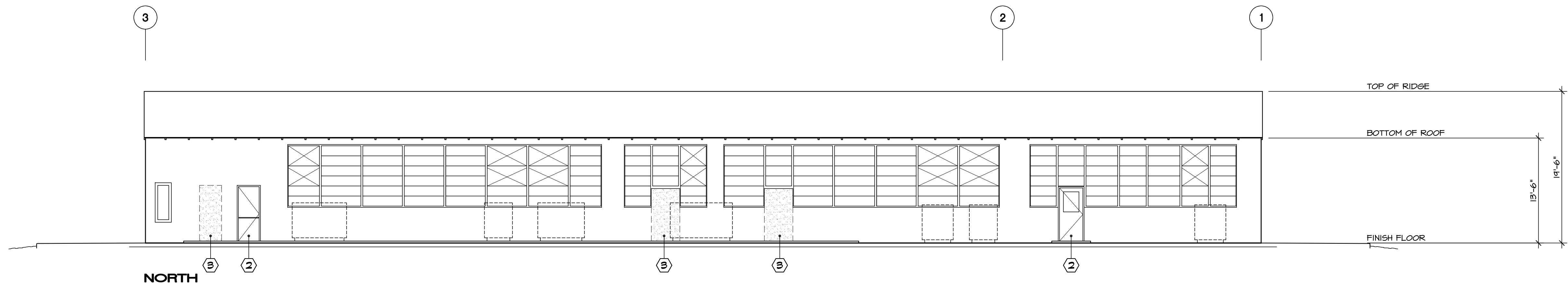
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Sheet Title
SECTION AND ROOF PLAN

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- KEYNOTES:**
- ① NEW DOOR / WINDOW PER PLAN
 - ② EXISTING DOOR / WINDOW TO REMAIN, PROTECT
 - ③ INFILL OPENING, PLASTER & PAINT TO MATCH EXISTING WALLS
 - ④ EXISTING DISPLAY CASE TO REMAIN, PROTECT
 - ⑤ EXISTING BULLETIN BOARD TO REMAIN, PROTECT
 - ⑥ EXISTING OUTDOOR LIGHTING TO REMAIN, PROTECT
 - ⑦ REMOVE EXISTING LOUVERS

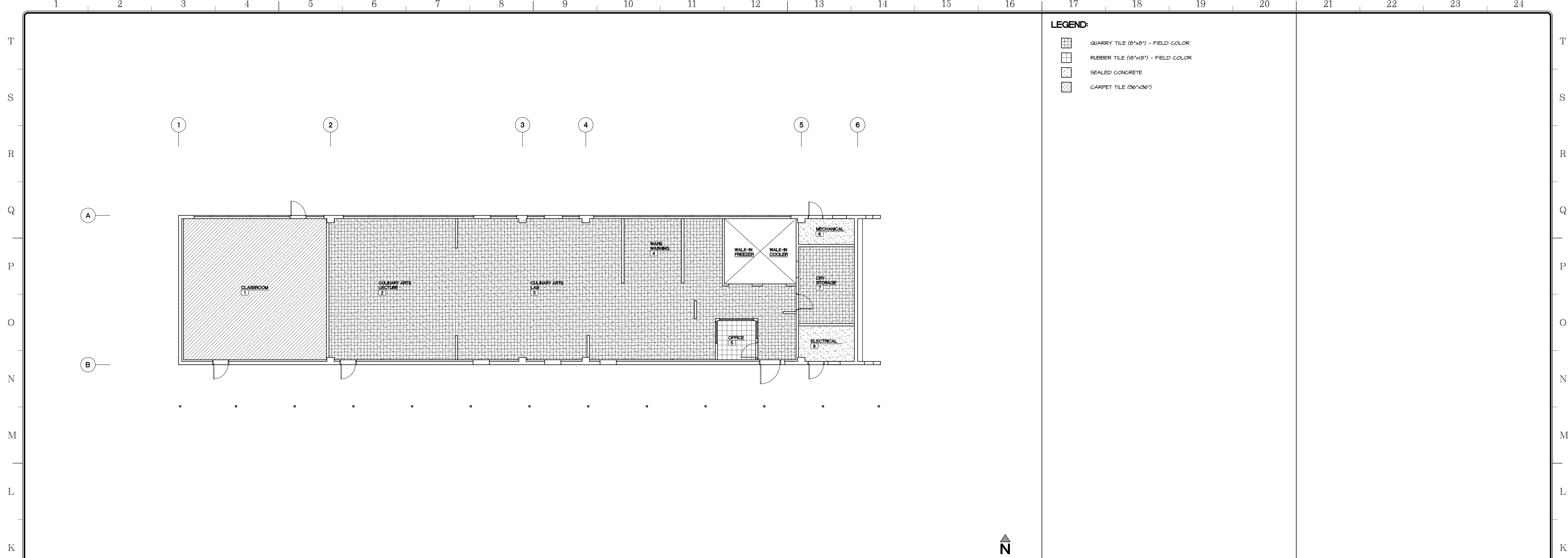
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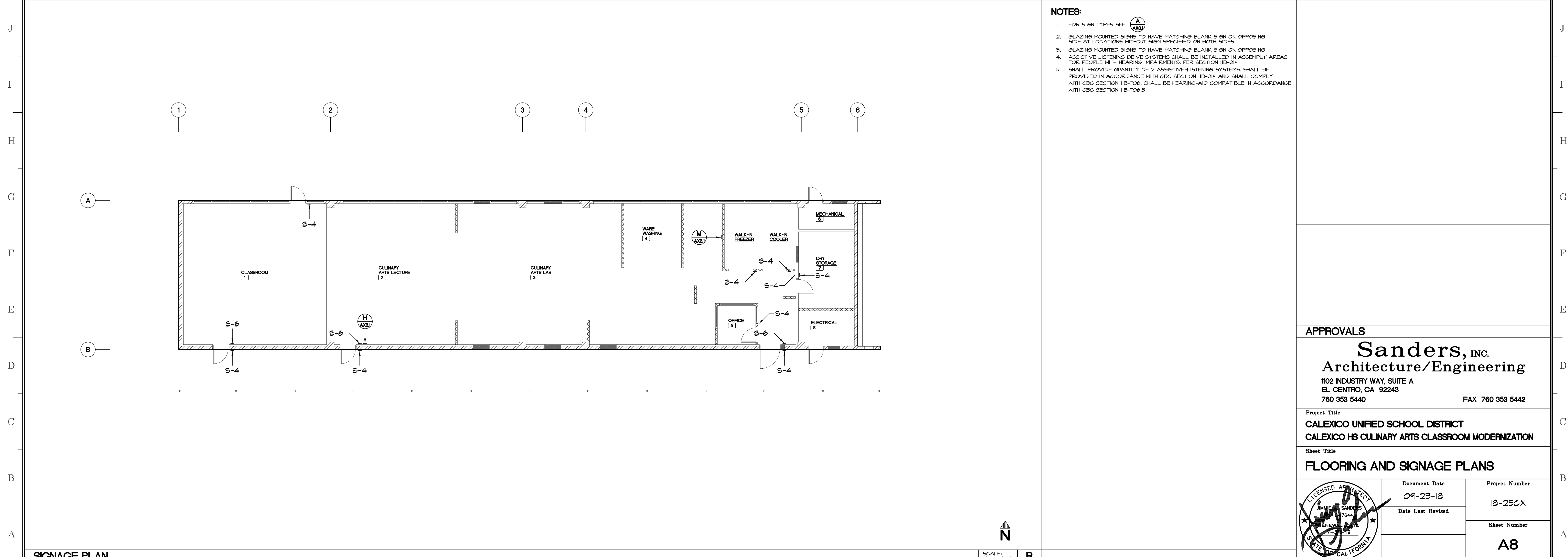
Sheet Title
EXTERIOR ELEVATIONS

	Document Date 09-23-18	Project Number 18-25CX
	Date Last Revised	Sheet Number A5



FLOORING PLAN

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



SIGNAGE PLAN

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

LEGEND:

- QUARRY TILE (8'x8') - FIELD COLOR
- RUBBER TILE (18'x18') - FIELD COLOR
- SEALED CONCRETE
- CARPET TILE (36'x36')

NOTES:

1. FOR SIGN TYPES SEE
2. GLAZING MOUNTED SIGNS TO HAVE MATCHING BLANK SIGN ON OPPOSING SIDE AT LOCATIONS WITHOUT SIGN SPECIFIED ON BOTH SIDES.
3. GLAZING MOUNTED SIGNS TO HAVE MATCHING BLANK SIGN ON OPPOSING SIDE AT LOCATIONS WITHOUT SIGN SPECIFIED ON BOTH SIDES.
4. ASSISTIVE LISTENING DEVICE SYSTEMS SHALL BE INSTALLED IN ASSEMBLY AREAS FOR PEOPLE WITH HEARING IMPAIRMENTS, PER SECTION 11B-214
5. SHALL PROVIDE QUANTITY OF 2 ASSISTIVE-LISTENING SYSTEMS, SHALL BE PROVIDED IN ACCORDANCE WITH CBC SECTION 11B-214 AND SHALL COMPLY WITH CBC SECTION 11B-106. SHALL BE HEARING-AID COMPATIBLE IN ACCORDANCE WITH CBC SECTION 11B-106.3

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Sheet Title
FLOORING AND SIGNAGE PLANS

	Document Date	Project Number
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ROOM FINISH SCHEDULE

RM NO	NAME	FLOOR	BASE		WALLS				WAINSCOT		CEILING		CABINETRY		REMARKS
			HT	MATERIAL	NORTH	EAST	SOUTH	WEST	HT	MATERIAL	HT	MATERIAL	HT	MATERIAL	
1	CLASSROOM	CARPER TILE	6"	RUBBER	GYP BD, PAINT	GYP BD	GYP BD	GYP BD, PAINT	N/A	N/A	4'-8"	SUSP CEILING TILE	N/A	N/A	
2	CULINARY ARTS LECTURE	QUARRY TILE	6"	QUARRY TILE	FRP	FRP	FRP	FRP	N/A	N/A	4'-8"	SUSP CEILING TILE	N/A	N/A	SEE FOODSERVICE DRAWINGS
3	CULINARY ARTS	QUARRY TILE	6"	QUARRY TILE	FRP	FRP	FRP	FRP	N/A	N/A	4'-8"	SUSP CEILING TILE	N/A	N/A	SEE FOODSERVICE DRAWINGS
4	KARE WASHING	QUARRY TILE	6"	QUARRY TILE	FRP	FRP	FRP	FRP	N/A	N/A	4'-8"	SUSP CEILING TILE	N/A	N/A	SEE FOODSERVICE DRAWINGS
5	OFFICE	RUBBER TILE	6"	RUBBER	GYP BD, PAINT	GYP BD, PAINT	GYP BD, PAINT	GYP BD, PAINT	N/A	N/A	8'-0"	SUSP CEILING TILE	N/A	N/A	
6	MECHANICAL	SEALED CONCRETE	6"	RUBBER	(E) GYP BD	(E) GYP BD	(E) GYP BD	(E) GYP BD	N/A	N/A	OTS	GYP BD, PAINT	N/A	N/A	
7	DRY STORAGE	QUARRY TILE	6"	QUARRY TILE	GYP BD, PAINT	GYP BD, PAINT	GYP BD, PAINT	GYP BD, PAINT	N/A	N/A	4'-8"	SUSP CEILING TILE	N/A	N/A	SEE FOODSERVICE DRAWINGS
8	ELECTRICAL	SEALED CONCRETE	6"	RUBBER	GYP BD, PAINT	GYP BD, PAINT	(E) GYP BD	(E) GYP BD	N/A	N/A	OTS	GYP BD, PAINT	N/A	N/A	

DOOR SCHEDULE

NO	TYPE	DOOR				FRAME	HARDWARE HEADING	FIRE RATING	GLAZING		FRAME DETAILS - SHEET AX13 UNO				REMARKS
		SIZE	THICKNESS	CORE	MATERIAL				TYPE	LOW-E / TINT	JAMB	SILL	HEAD	MULLION	
1	S-1	(E) 3'-0" x 7'-0"	1 3/4"-16 GA	POLYURETHANE	STEEL	MTL-16 GA	1	NR	N/A	N/A	3	7 / SIM	3	N/A	PANIC HARDWARE
2	S-1	3'-0" x 7'-0"	1 3/4"-16 GA	POLYURETHANE	STEEL	MTL-16 GA	2	NR	N/A	N/A	3	7 / SIM	3	N/A	PANIC HARDWARE
3	S-2	4'-0" x 7'-0"	1 3/4"-16 GA	POLYURETHANE	STEEL	MTL-16 GA	2	NR	N/A	N/A	3	7 / SIM	3	N/A	PANIC HARDWARE
4	S-1	(E) 3'-0" x 7'-0"	1 3/4"-16 GA	POLYURETHANE	STEEL	MTL-16 GA	3	NR	N/A	N/A	3	7 / SIM	3	N/A	
5	S-1	3'-0" x 7'-0"	1 3/4"-16 GA	POLYURETHANE	STEEL	MTL-16 GA	1	NR	N/A	N/A	3	7 / SIM	3	N/A	
6	S-1	(E) 3'-0" x 7'-0"	1 3/4"-16 GA	POLYURETHANE	STEEL	MTL-16 GA	3	NR	N/A	N/A	3	7 / SIM	3	N/A	
7	S-1	3'-0" x 7'-0"	1 3/4"-16 GA	POLYURETHANE	STEEL	MTL-16 GA	4	NR	N/A	N/A	3	7 / SIM	3	N/A	
8	S-1	3'-0" x 7'-0"	1 3/4"-16 GA	POLYURETHANE	STEEL	MTL-16 GA	5	NR	N/A	N/A	3	7 / SIM	3	N/A	

EQUIPMENT SCHEDULE:

ITEM	DESCRIPTION	QTY	SIZE			ELECTRICAL						PLUMBING AND MECHANICAL											CLASSIFICATION (SEE NOTES)	REMARKS		
			WIDTH	DEPTH	HEIGHT	VOLTS	PHASE	KW	HP	AMPS	CONNECTION	WATER			GAS					AIR	EXH					
												COLD	HOT	DRAIN	NG	O2	C2H2	CO2	C25			AR				
1	FIRE EXTINGUISHER	3																							*K	SEE DETAIL L/AX3.1

ROOM FINISH SCHEDULE NOTES:

- ALL OUTSIDE GYP-BRD CORNERS @ WALLS AND SOFFITS SHALL BE FINISHED WITH "BULLNOSE" PAPER FACED METAL CORNER BEAD.
- GYP-UM BOARD FINISH AT WALLS AND CEILING TEXTURED "LIGHT SKIP TROWEL". PROVIDE SAMPLE FOR APPROVAL.
- ALL INTERIOR FINISHES SHALL COMPLY W/ CBC CHAPTER 8, CFC CHAPTER 9, AND CGR TITLE 19, 3.08 AND 9.21.
- SLIP RESISTANT TILE, SLIP RESISTANT TILE SHALL HAVE SUFFICIENT ABRASIVES ADDED SUCH THAT THE STATIC COEFFICIENT OF FRICTION (SCF) OR DRF SHALL BE NOT LESS THAN 0.6 FOR WALKING SURFACES AND 0.8 FOR RAMP WHEN TESTED IN ACCORDANCE W/ ASTM DESIGNATION: C 1028.
- ALL INTERIOR FINISHES SHALL BE OF MAX FLAME SPREAD CLASS 1 W/ AN INDEX OF 20-75.
- SEE (A) (AX1) FOR FLOORING TRANSITION DETAILS.
- ALL ONE HOUR RATED CEILING AND WALLS SHALL BE AS PER C.B.C. TABLE 1201, 14-1.5.

DOOR SCHEDULE NOTES:

- FOR DOOR TYPES SEE SHEET (A) (AX1)
- SEE (A) (F) (AX1) FOR SIGNAGE.
- ALL DOOR THRESHOLD SHALL COMPLY W/ (6) (7) (AX13) (AX13)
- FOR LIGHTED EXIT SIGNS SEE ELECTRICAL DRAWINGS.
- SIGNAGE AT EXIT DOORS MUST READ "EXIT" AND "EXIT ROUTE" AT DOORS LEADING TO EXIT DOORS.
- MINIMUM FRAME LAP AT GLAZING IS 1/4" AND MINIMUM GLASS EDGE CLEARANCE IS 1/8"
- EACH GLAZING LIGHT SHALL BEAR THE MANUFACTURER'S LABEL DESIGNATING THE TYPE AND THICKNESS OF GLASS. WHEN APPROVED BY THE ENFORCING AGENCY, LABELS MAY BE OMITTED FROM OTHER THAN SAFETY GLAZING MATERIALS PROVIDED AN AFFIDAVIT IS FURNISHED BY THE GLAZING CONTRACTOR CERTIFYING THAT EACH LIGHT IS GLAZED IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS.
- EACH LIGHT OF SAFETY GLAZING MATERIAL SHALL BE IDENTIFIED BY A PERMANENT LABEL THAT SPECIFIES THE LABELER, WHETHER THE MANUFACTURE OR INSTALLER, AND STATE THAT SAFETY GLAZING MATERIAL HAS BEEN UTILIZED IN SUCH INSTALLATION AND SHALL SPECIFY THAT THE LABEL SHALL NOT BE REMOVED. THE IDENTIFICATION SHALL BE ETCHED OR CERAMIC FIRED ON THE GLASS AND READABLE FROM THE INSIDE OF THE BLDG AFTER INSTALLATION.
- GLAZING AT EXTERIOR DOOR SHALL BE MOUNTED ON EXTERIOR SIDE OF JAMBS.
- MAXIMUM EFFORT TO OPERATE DOOR SHALL NOT EXCEED 5lbs. (22 N) PER (CBC 1009.15) MAXIMUM EFFORT TO OPERATE FIRE DOORS TO BE PER FIRE MARSHAL, BUT SHALL NOT EXCEED 15lbs.
- ALL EXIT DOORS SHALL OPERABLE FROM INSIDE W/O ANY SPECIAL KNOWLEDGE, EFFORT OR TOOLS
- FOR HARDWARE HEADINGS SEE SPECIFICATIONS.

APPROVALS

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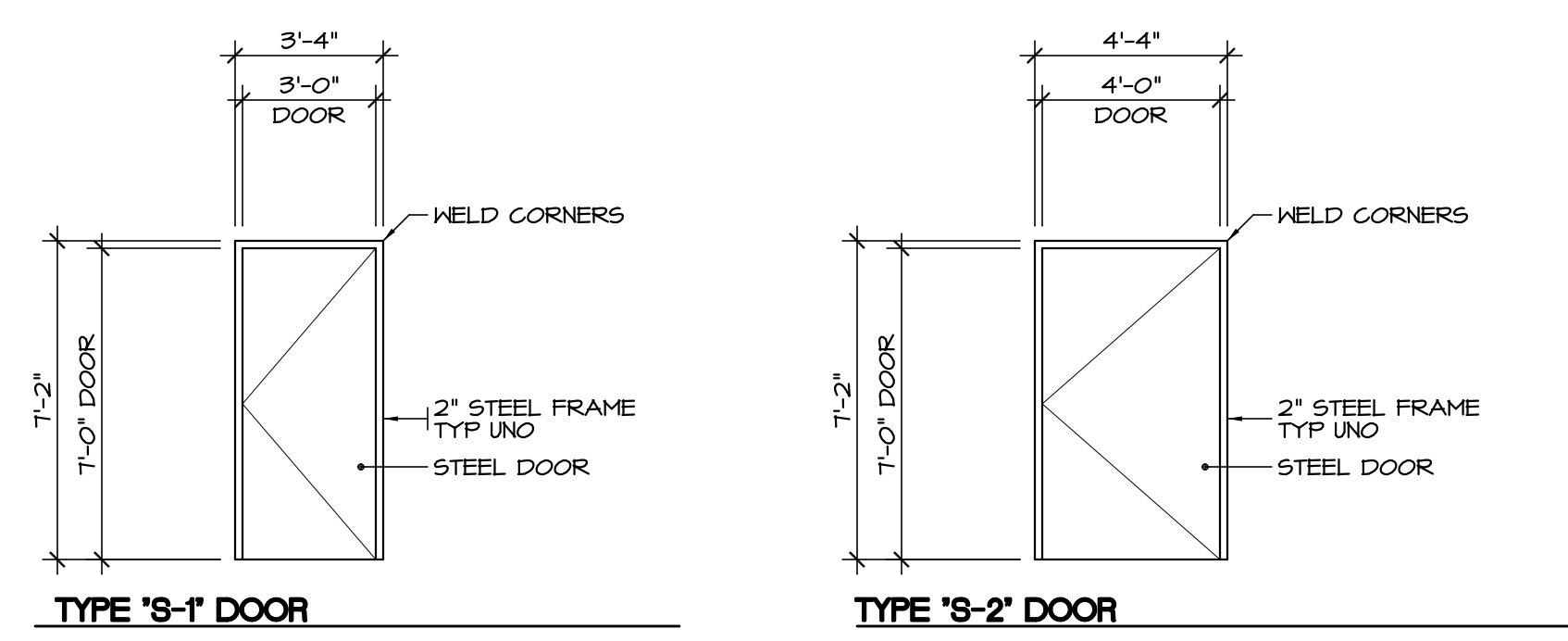
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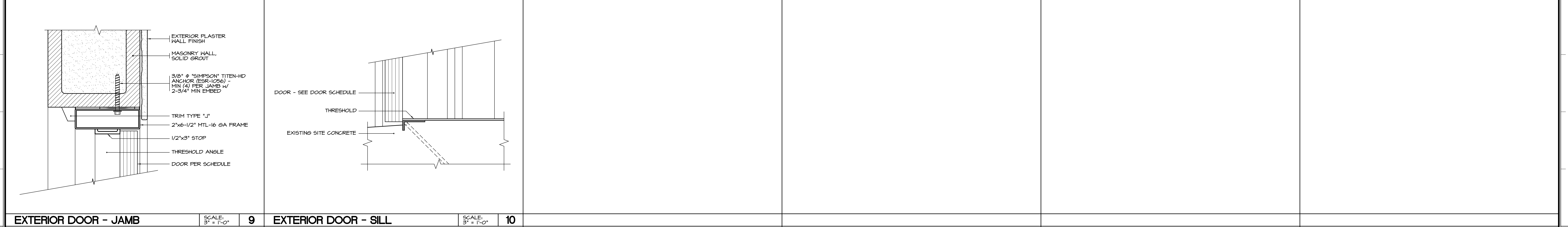
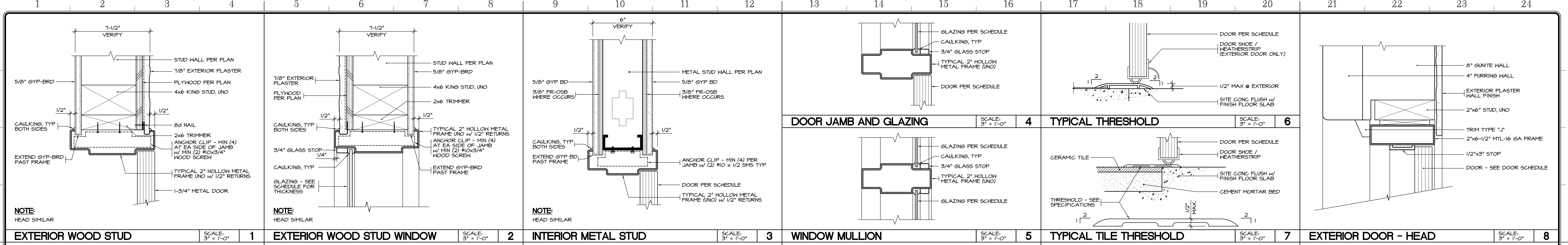
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**ROOM FINISH, DOOR, WINDOW,
EQUIPMENT SCHEDULES**

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STEEL FRAME DOOR TYPES

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



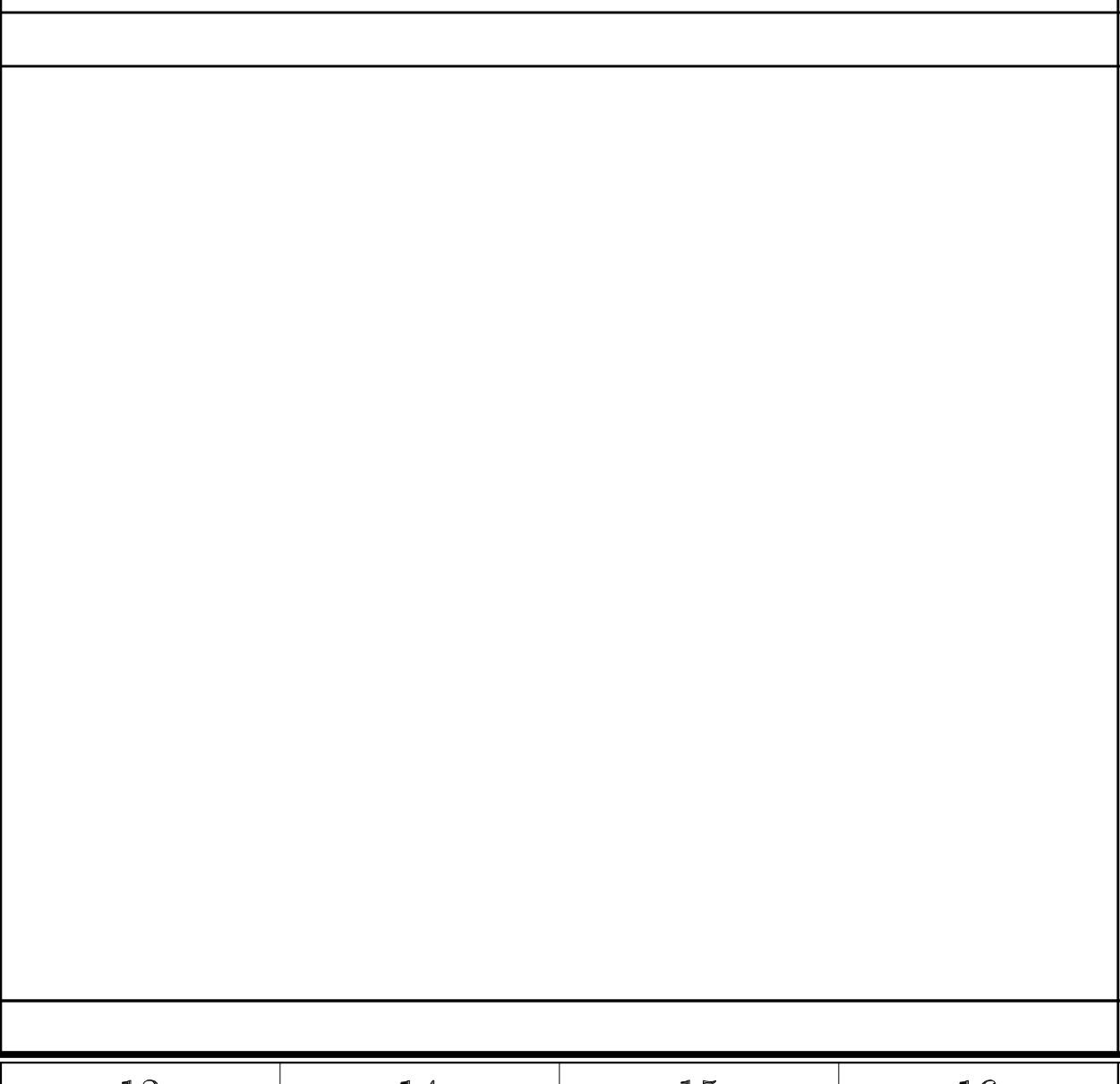
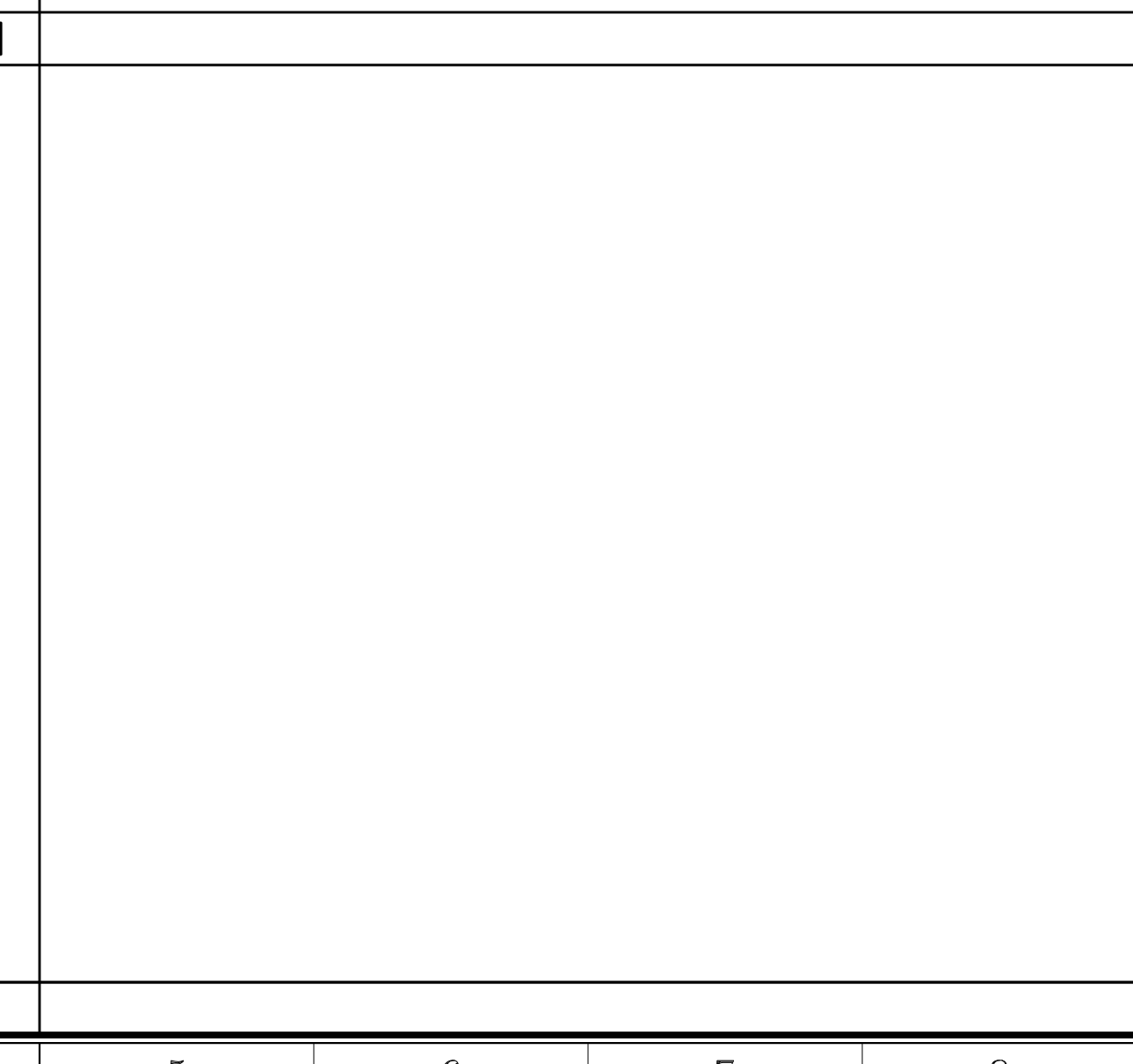
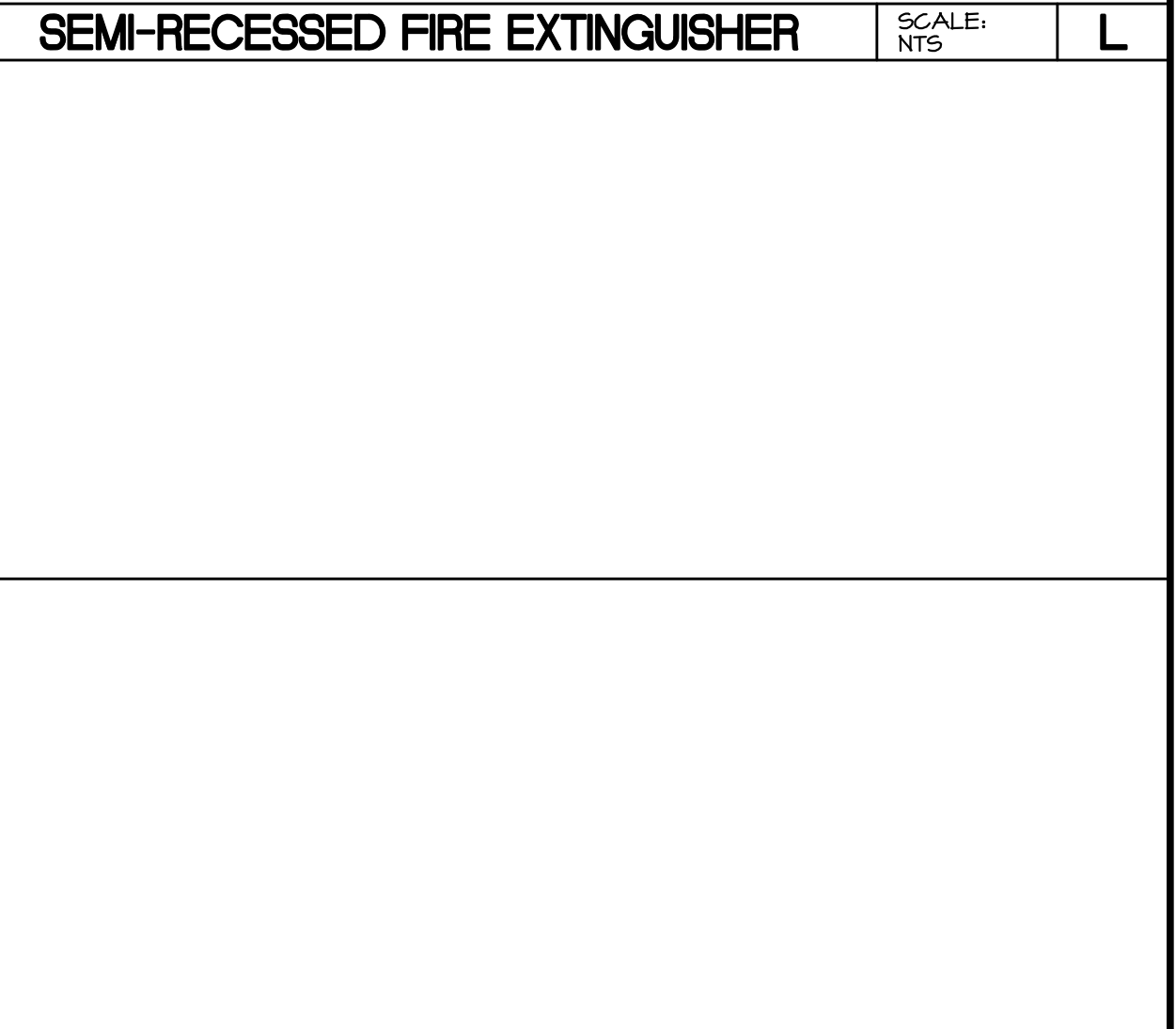
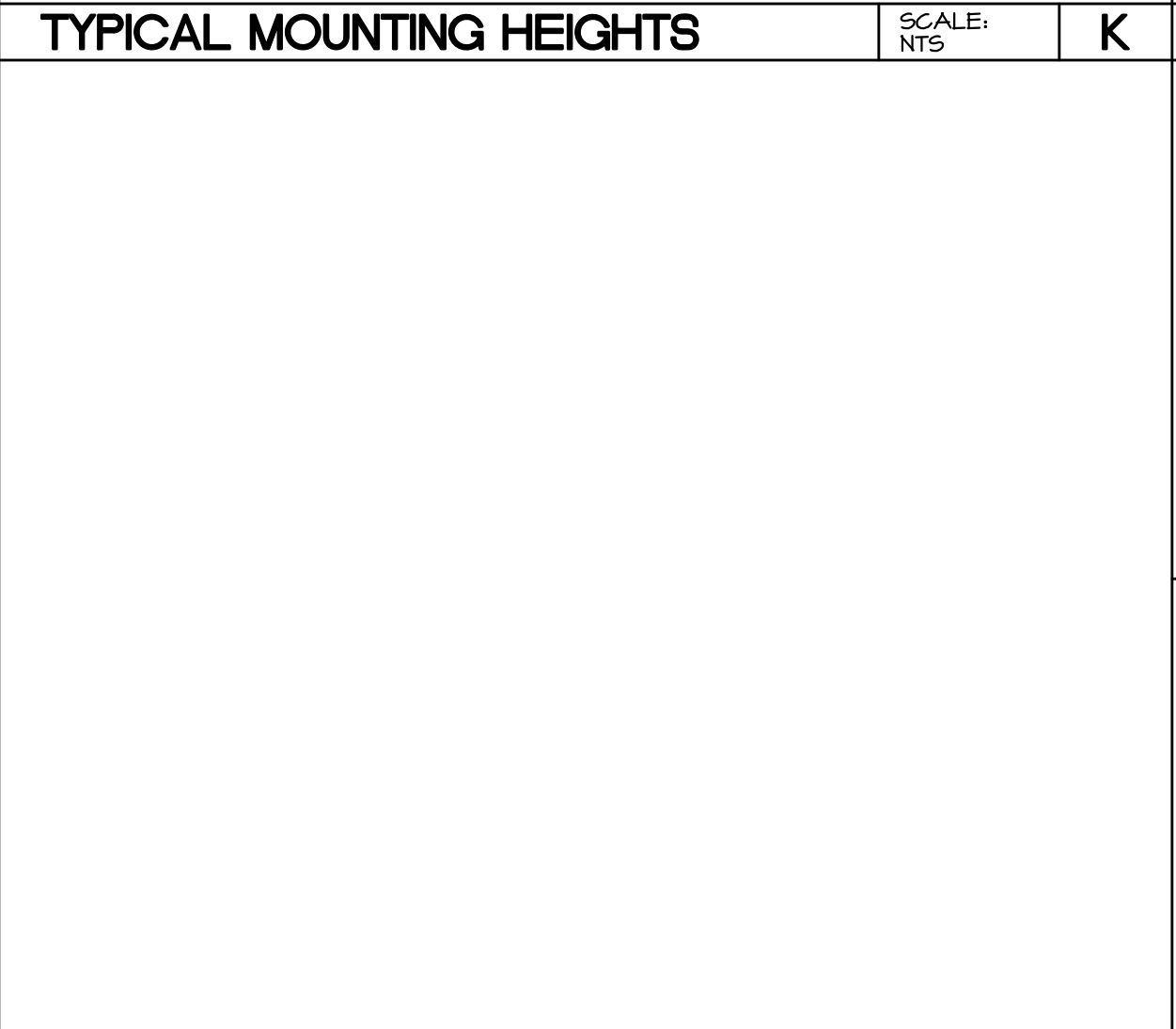
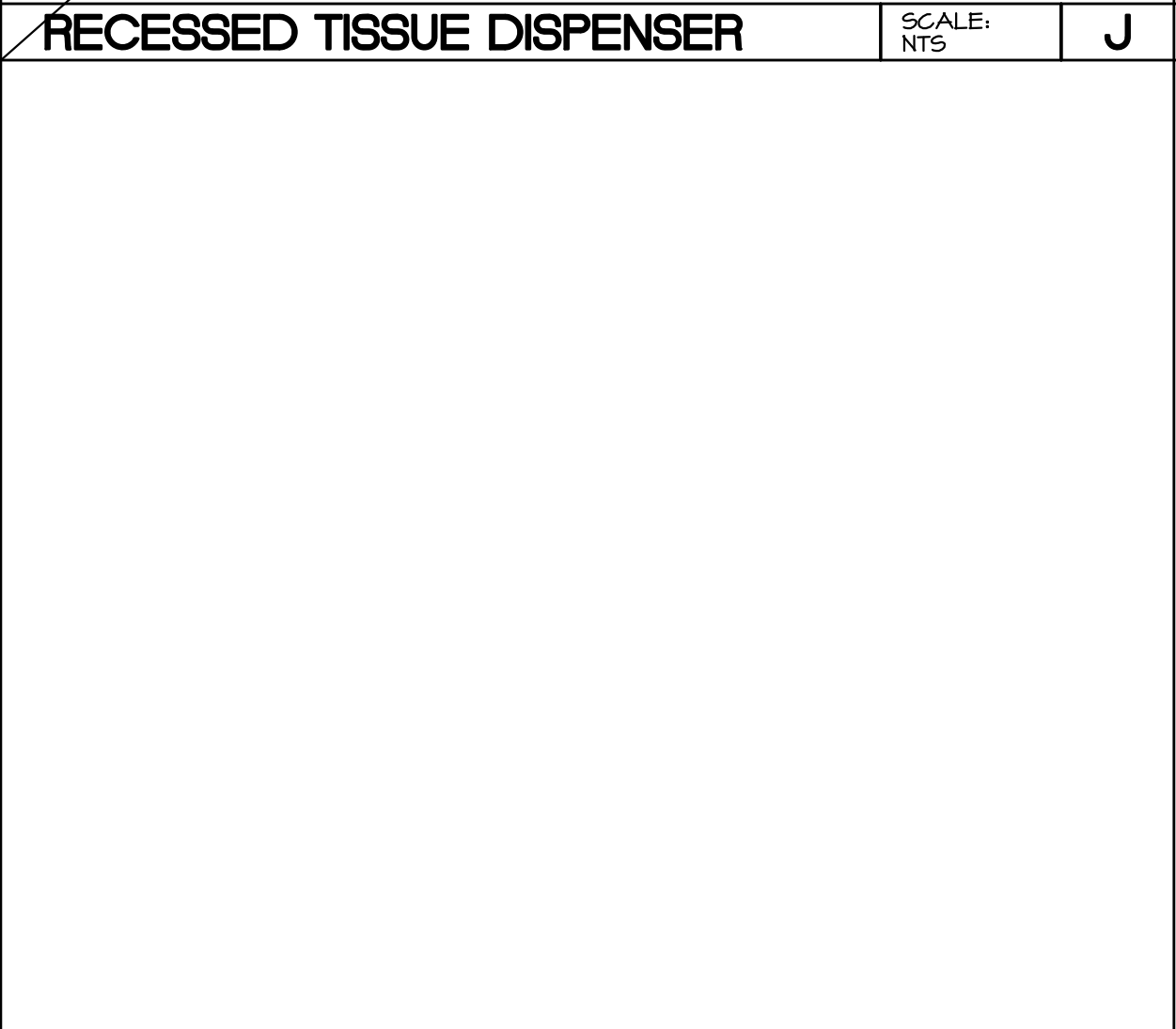
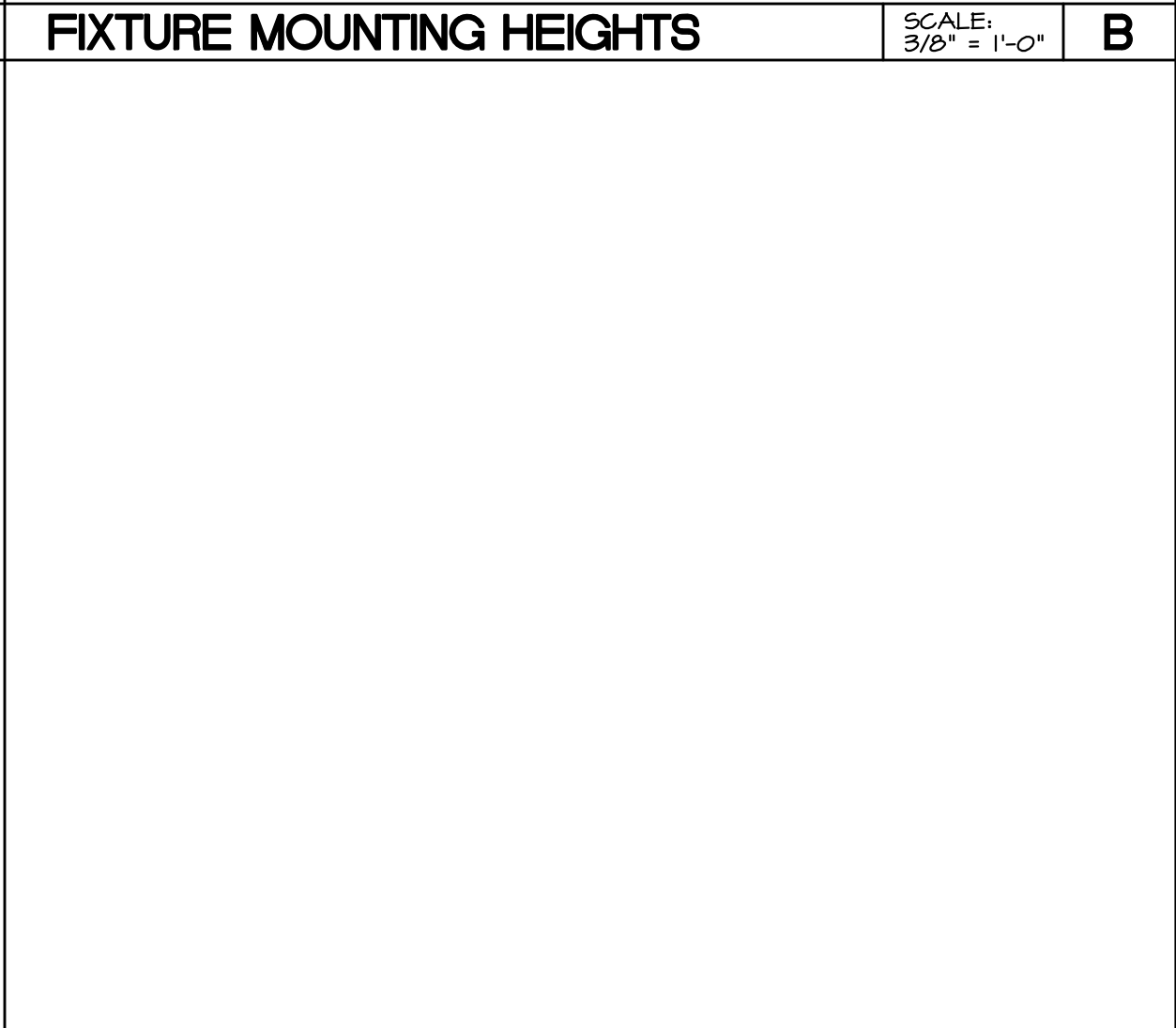
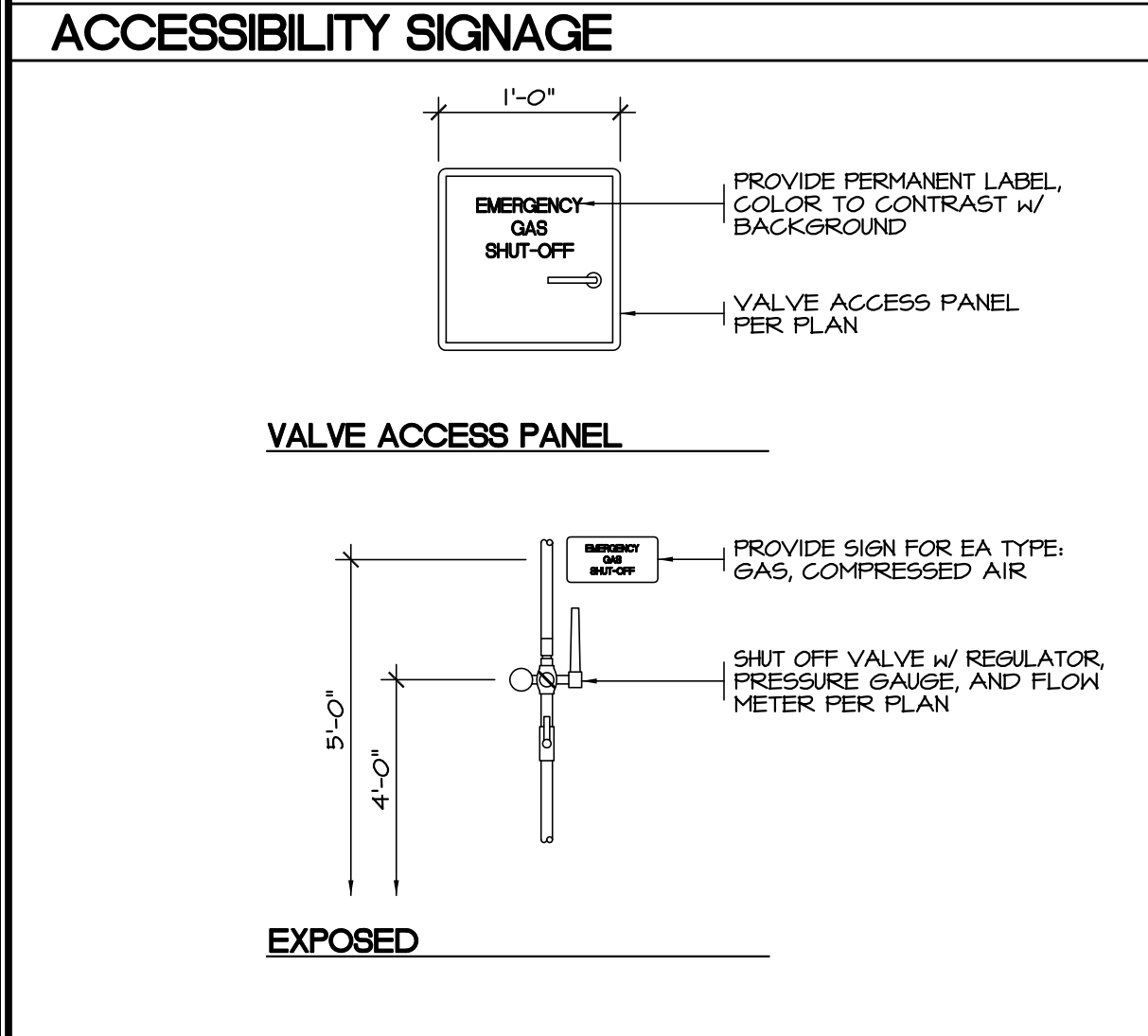
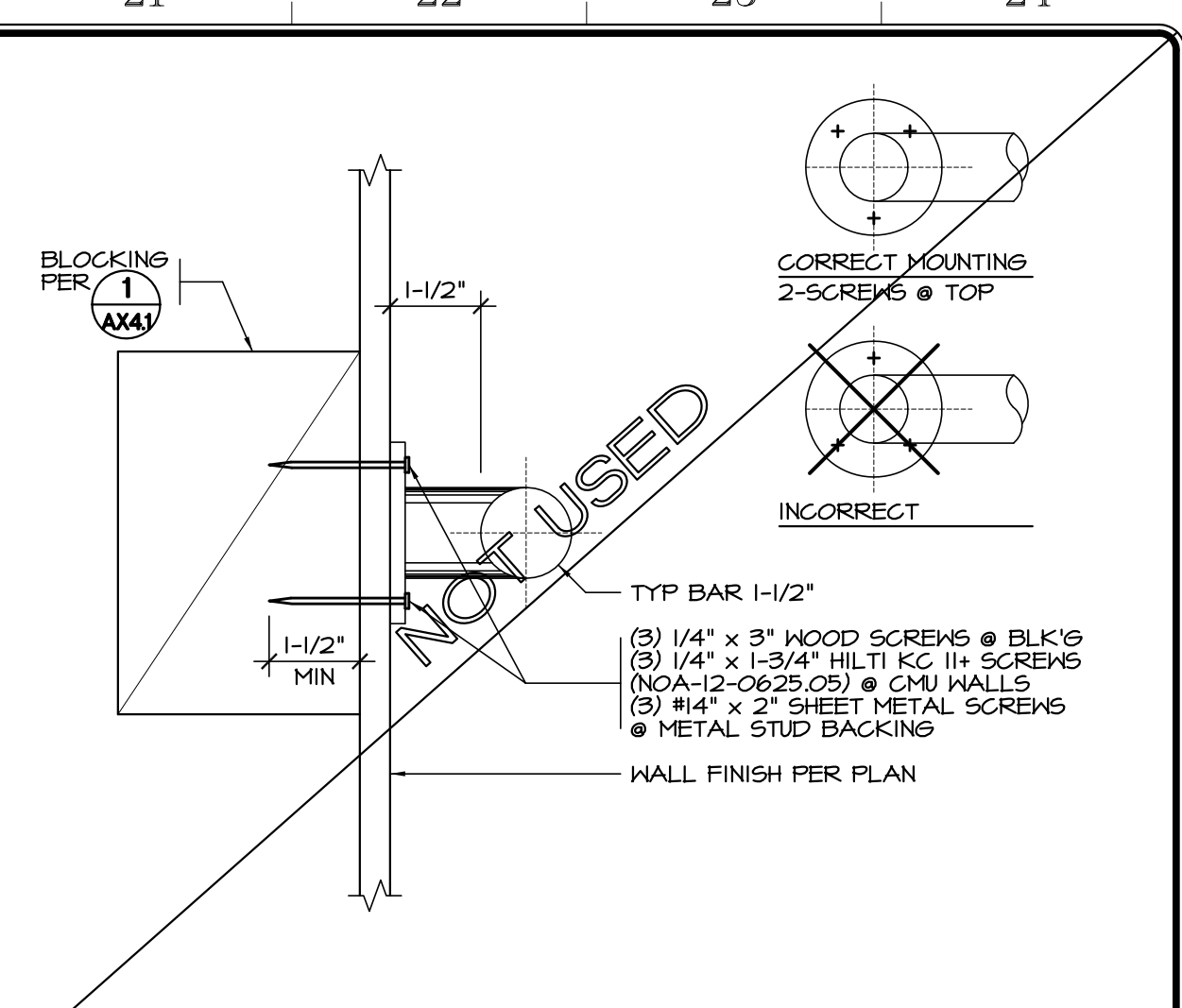
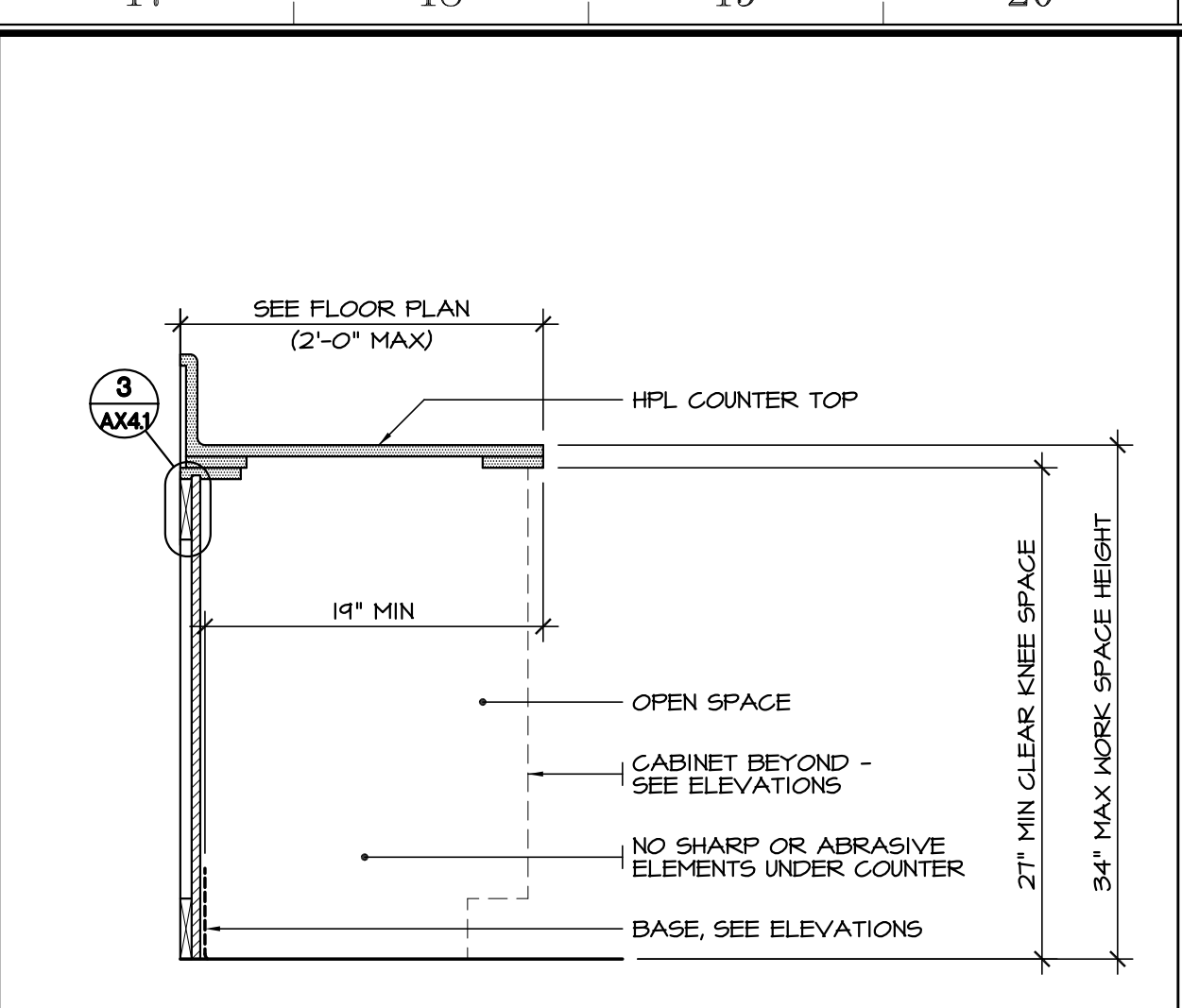
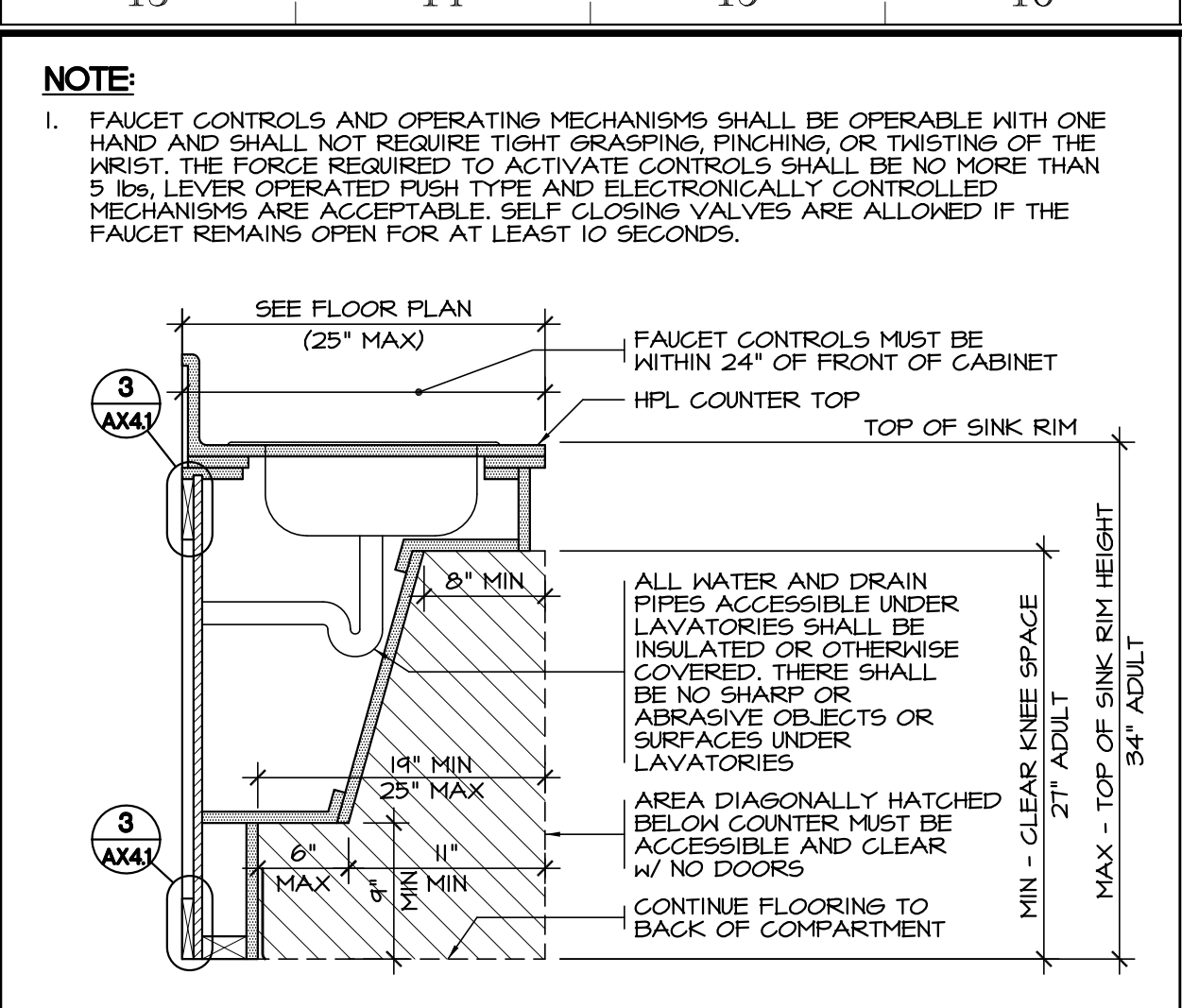
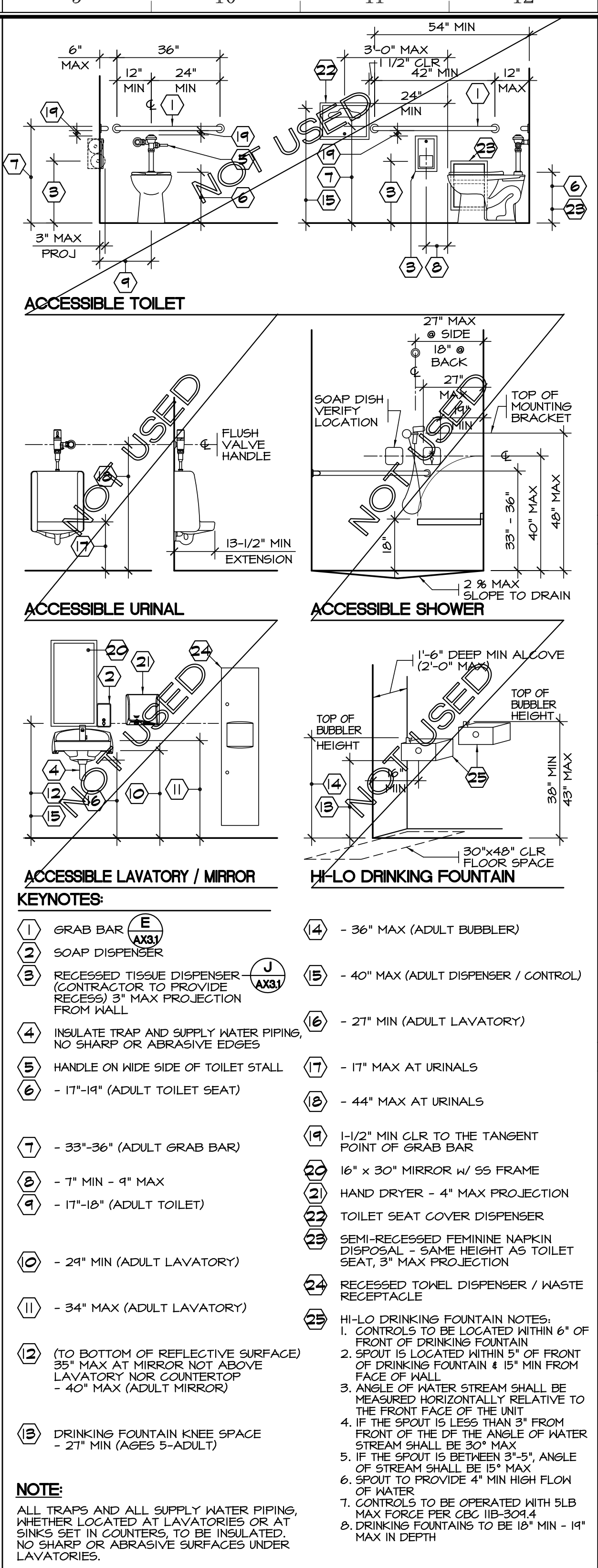
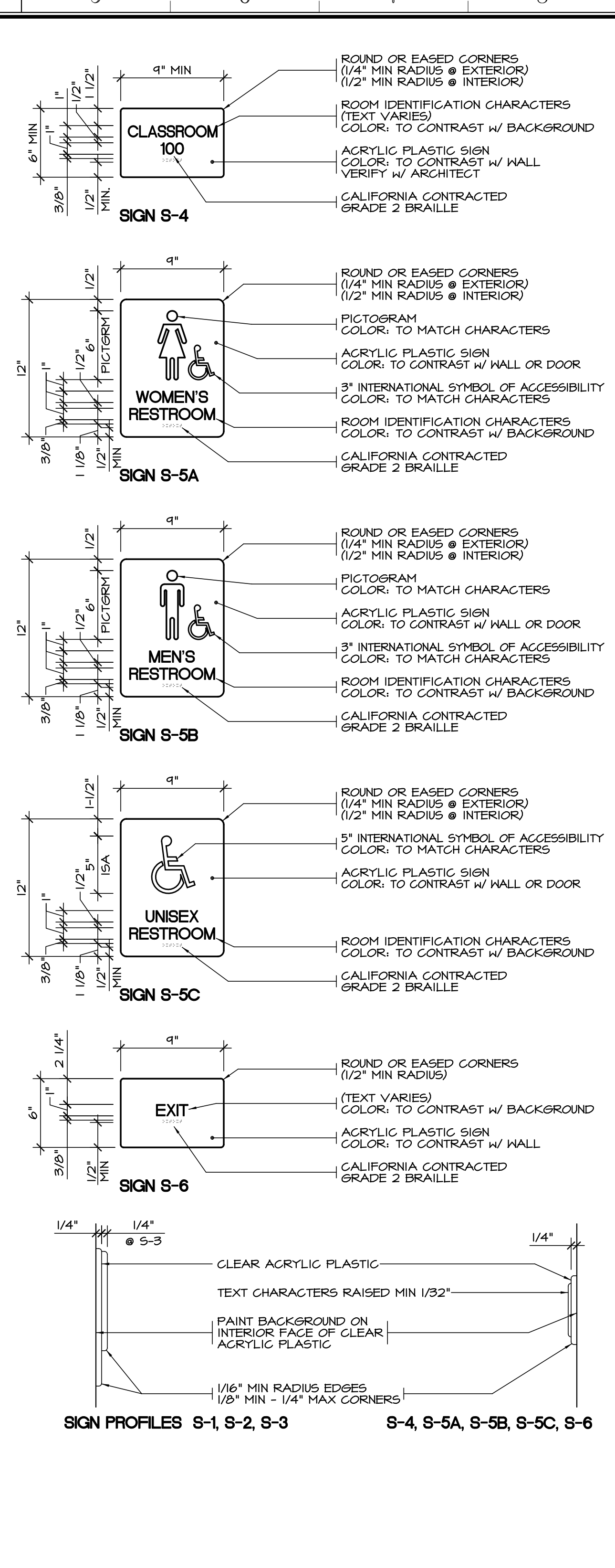
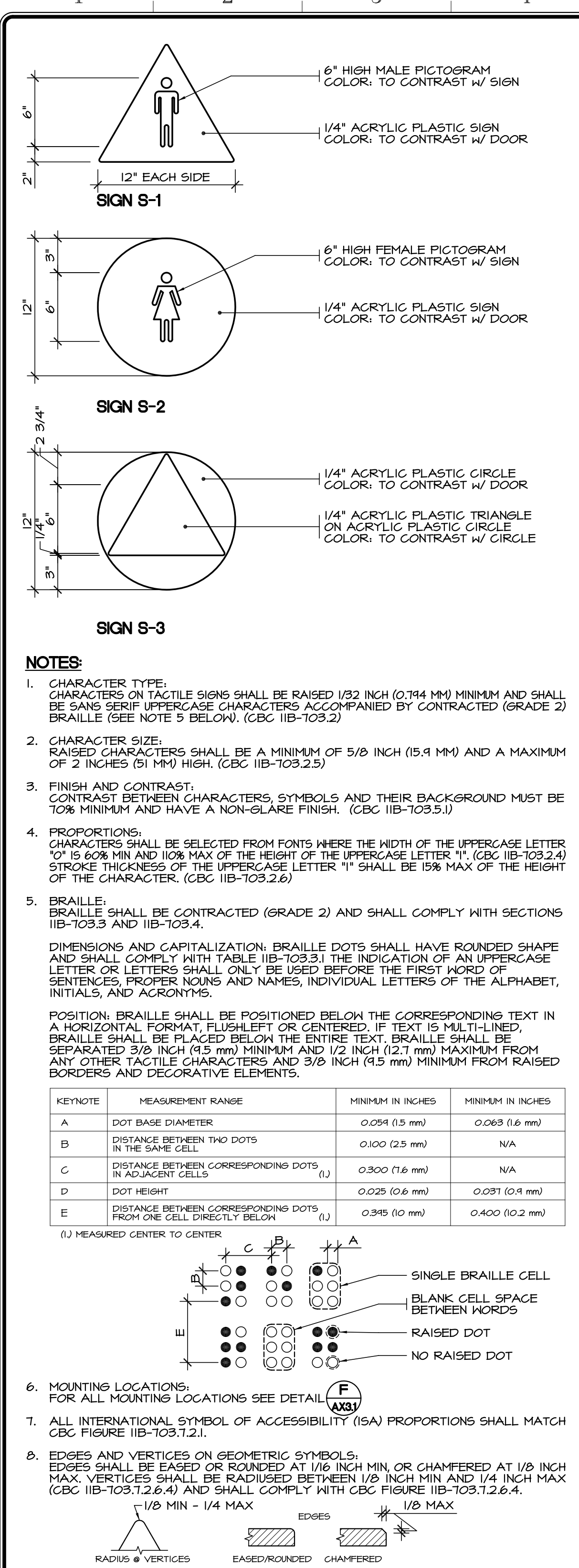
APPROVALS

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Project Title
**CALEXICO UNIFIED SCHOOL DISTRICT
 CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
DOOR AND WINDOW DETAILS

	Document Date 09-23-18	Project Number 09-23-18
	Date Last Revised	Sheet Number AX13



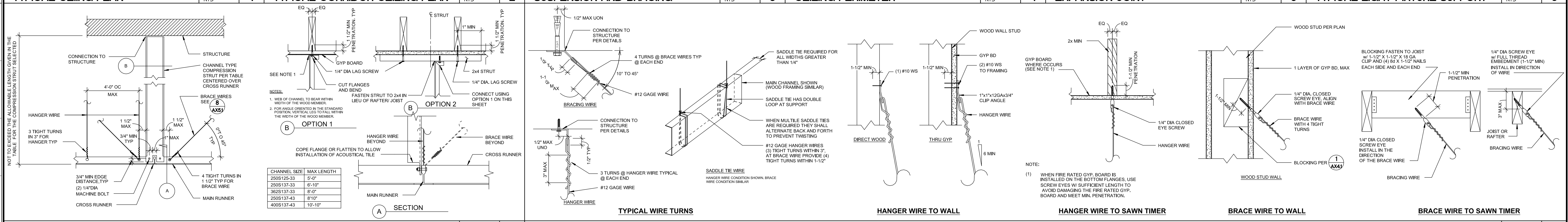
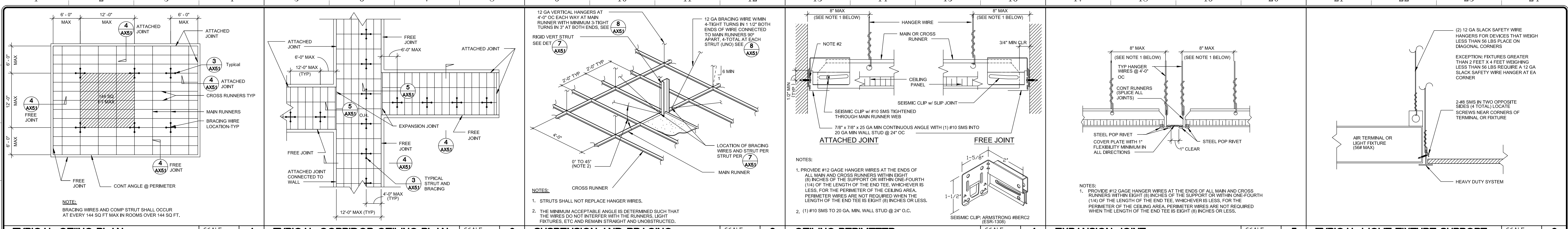
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Project Title
**CALEXICO UNIFIED SCHOOL DISTRICT
 CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
ACCESS COMPLIANCE DETAILS

Document Date 09-23-18	Project Number 18-25CX
Date Last Revised	Sheet Number AX3.1



1. CEILING SYSTEM GENERAL NOTES:

- Ceiling system components shall comply with ASTM C635-07 and Section 5.1 of ASTM E880-10a.
- The ceiling grid system must be rated heavy duty as defined by ASTM C635-08.
- Ceiling systems, the following ceiling system(s) is/are part of the scope of this project:
 Manufacturer's Name: ARMSTRONG
 Product Evaluation Report Type and Number: ESR-1308
 Manufacturer's Model Number - main runner: PRELUDE XL #7301
 Manufacturer's catalog number - cross runner: PRELUDE XL #XL7341 (4R), #XL7328 (2R)
- Seismic Wall Clip:
 Manufacturer's Model: BERCC2 (ESR-1308)
- Ceiling panels shall not support any light fixtures, air terminals or devices.
- For ceiling installations utilizing acoustical tile panels of mineral or glass fiber, it is not mandatory to provide 1/2" clearance between the acoustical tile panels and the wall on the sides of the ceiling which are free to slip. For all other ceiling panel types, provide 1/4" clearance between the ceiling panel and the wall on the sides of the ceiling free to slip.

2. MATERIALS:

- Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641-09a. Wire shall be #12 gage (0.106" diameter) with soft temper and minimum tensile strength = 70 ksi.
- Galvanized sheet steel (including that used for metal stud and track compression struts) shall conform to ASTM A653-11, or other equivalent sheet steel listed in Section A2.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members 2007, including supplement 2, dated 2010 (AISI S100-07/S2-10). Material 43 mil (16 gage) and lighter shall have minimum yield strength of 33 ksi. Material 54 mil (16 gage) and heavier shall have a minimum yield strength of 50 ksi.
- Electrical metallic tube (EMT) shall be ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength (Fy) of 30 ksi and minimum ultimate strength (Fu) of 48 ksi.

3. ATTACHMENT OF HANGER AND BRACING WIRES:

- Separate all ceiling hanger and bracing wires at least six (6) inches from all unbraced ducts, pipes, conduit, etc.
- Hanger and bracing wires shall not attach to or band around obstructions including but not limited to: piping, ductwork, and equipment.
- Hanger wires that are more than one (horizontal) or six (vertical) out of plumb shall have counter-sloping wires.
- Slack safety wires shall be considered hanger wires for installation and testing requirements.
- Hanger and bracing wire anchorage to the structure shall be installed in such a manner that the direction of the anchorage aligns closely with the direction of the wire. (e.g. bracing wire ceiling clips must be bent as shown in the details and rotated as required to align closely with the direction of the wire, screw eyes in wood must be installed so they align closely with the direction of the wire, etc.)

4. FASTENERS AND WELDING:

- Sheet metal screws shall comply with ASTM C1513-10, ASME B18.6.4-89 (R2005). Penetration of screws through joined material shall not be less than three exposed threads.
- Expansion anchors shall be: As detailed on drawings.
- Power-Actuated Fasteners shall be: As detailed on drawings.
- 4.4 If not otherwise specified in the evaluation report, power-actuated fasteners installed in steel shall be installed so the entire pointed end of the fastener is driven through the steel member.
- Power-actuated fasteners in concrete are not permitted for bracing wires.
- Concrete reinforcement and prestressing tendons shall be located by non-destructive means prior to installing post-Installed anchor.
- Welding shall be in accordance with AWS D1.3 using E60XX series electrodes.

5. TESTING: All field testing must be performed in the presence of the project inspector.

- Post-installed anchors in concrete used to support hanger wires shall be tested at a frequency of 10 percent. Power actuated fasteners in concrete shall be field tested for

6. LIGHT FIXTURES:

- All light fixtures shall be positively attached to the ceiling suspension systems by mechanical means to resist a horizontal force equal to the weight of the fixture. A minimum of two screws or approved fasteners are required at each light fixture, per ASTM E880, Section 5.3.1.
- Surface-mounted light fixtures shall be attached to the main runner with at least two positive clamping devices. The clamping device shall completely surround the supporting ceiling runner and be made of steel with a minimum thickness of #14 gage. Rotational spring catches do not comply. A #12 gage slack safety wire shall be connected from each clamping device to the structure above. Provide additional supports when light fixtures are eight (8) feet or longer or exceed 56 lb. Maximum spacing between supports shall not exceed eight (8) feet.
- Light fixtures weighing less than or equal to 10 lb. shall have a minimum of one (1) #12 gage slack safety wire connected from the fixture housing to the structure above.
- Light fixtures weighing less than or equal to 10 lb. shall have a minimum of one (1) #12 gage slack safety wire connected from the fixture housing to the structure above.
- Light fixtures weighing greater than 10 lb. but less than or equal to 56 lb. may be supported directly on the ceiling runners, but they shall have a minimum of two (2) #12 gage slack safety wires connected from the fixture housing to the structure above. Exception: All light fixtures greater than two by four feet weighing less than 56 lbs. shall have a #12 gage slack safety wire at each corner.
- All light fixtures weighing greater than 56 lb. shall be independently supported by not less than four (4) #12 gage hanger wires (one at each corner) attached from the fixture housing to the structure above or other approved hangers. The four (4) #12 gage hanger wires or other approved hangers, including their attachment to the structure above, shall be capable of supporting four (4) times the weight of the fixture.

7. SERVICES WITHIN THE CEILING:

- All flexible sprinkler hose fitting mounting brackets, ceiling-mounted air terminals or other services shall be positively attached to the ceiling suspension systems by mechanical means. Screws or approved fasteners are required. A minimum of two attachments are required at each component.
- Ceiling-mounted air terminals or other services weighing less than or equal to 20 lb. shall have one (1) #12 gage slack safety wire attached from the terminal or service to the structure above.
- Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 20 lb. but less than or equal to 56 lb. shall have two (2) #12 gage slack safety wires (at diagonal corners) connected from the terminal or service to the structure above.
- Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 56 lb. shall be supported directly from the structure above by not less than four (4) #12 gage hanger wires attached from the terminal or service to the structure above or other approved hangers.

8. OTHER DEVICES WITHIN THE CEILING:

- All lightweight miscellaneous devices, such as strobe lights, occupancy sensors, speakers, exit signs, etc., shall be attached to the ceiling grid. In addition, devices weighing more than 10 lbs. shall have a #12 gage slack safety wire anchored to the structure above. Devices weighing more than 20 lb. shall be supported independently from the structure above.

SUSPENDED CEILING NOTES SCALE: NTS

9

APPROVALS

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Project Title
**CALEXICO UNIFIED HIGH SCHOOL DISTRICT
 CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
INTERIOR ARCHITECTURAL DETAILS

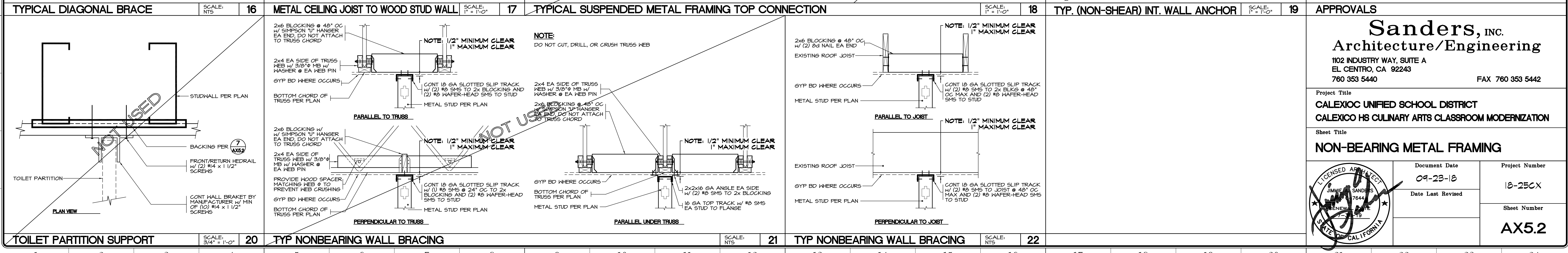
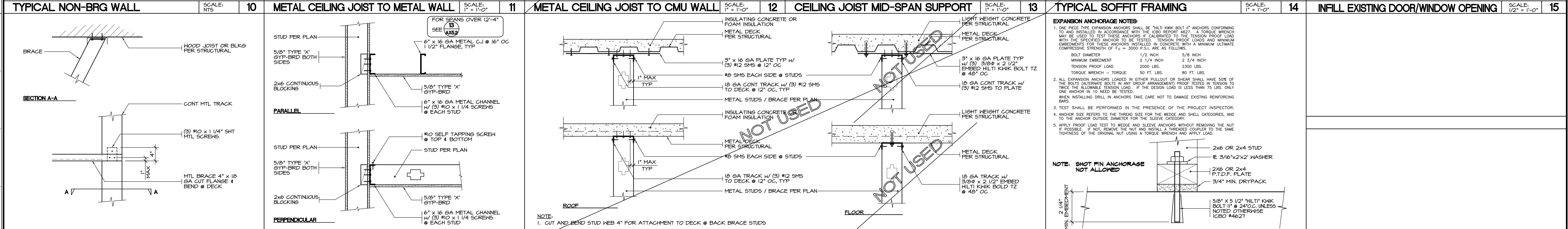
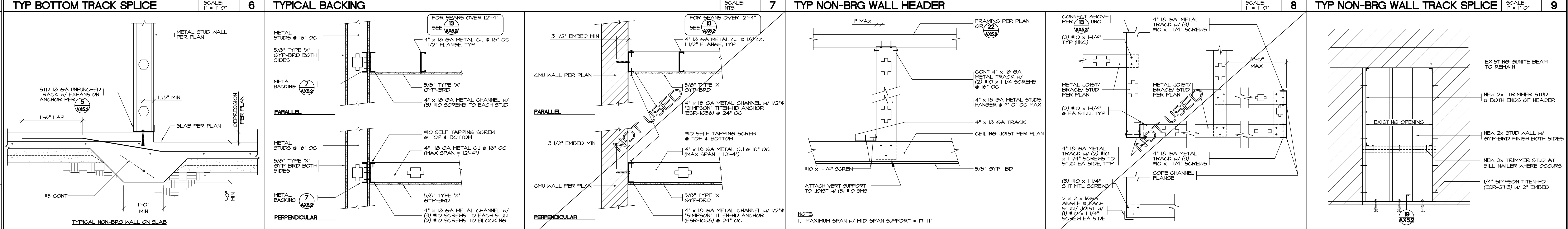
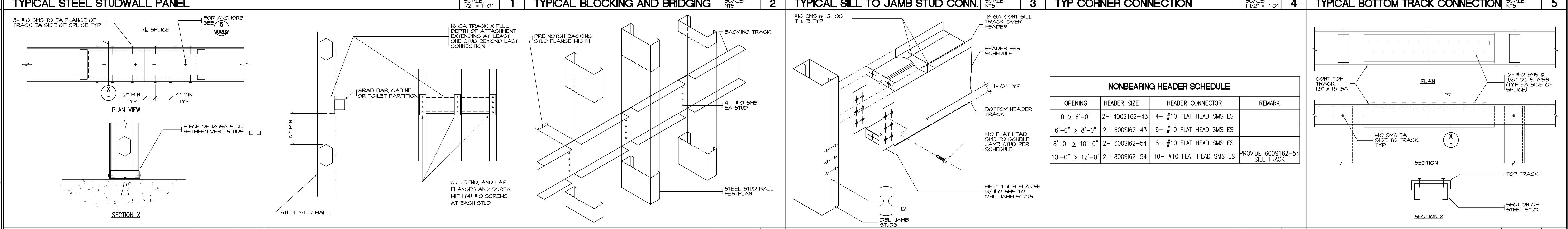
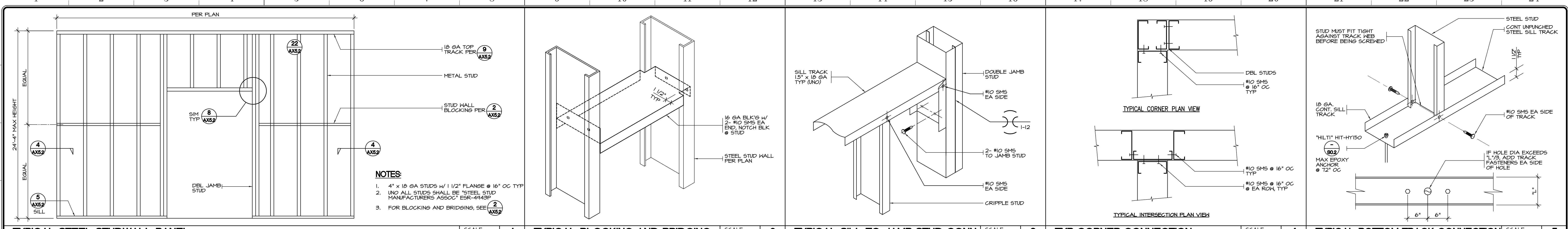
Document Date
 09-23-18

Date Last Revised

Project Number
 18-25CX

Sheet Number
AX5.1

LICENSED ARCHITECT
 SANDERS, INC.
 STATE OF CALIFORNIA



DESIGN BASIS:

CODE: 2016 C.B.C. (CALIFORNIA BUILDING CODE TITLE) BASED ON 2015 IBC

GRAVITY LOADS:

1. ROOF LIVE LOAD 20 P.S.F. (REDUCIBLE)

WIND LOADS:
 BASIC WIND SPEED (3-SECOND GUST) 115 MPH
 WIND EXPOSURE C
 WIND RISK CATEGORY III

SEISMIC DESIGN CRITERIA:
 SEISMIC IMPORTANCE FACTOR, I 1.25
 SEISMIC OCCUPANCY CATEGORY II 1.500g
 MAPPED SPECTRAL RESPONSE ACCELERATION, S_s 0.600g
 MAPPED SPECTRAL RESPONSE ACCELERATION, S₁ 0.600g
 SITE CLASS D
 MAPPED SPECTRAL RESPONSE ACCELERATION, S_{ds} 1.000g
 MAPPED SPECTRAL RESPONSE ACCELERATION, S_{d1} 0.600g
 SEISMIC DESIGN CATEGORY D

GENERAL NOTES:

- THE PROJECT SPECIFICATIONS ARE A PART OF THE CONTRACT DOCUMENTS.
- THE STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS BY: SANDERS, INC. ARCHITECTURE / ENGINEERING
- THE CONTRACTOR SHALL REVIEW EXISTING CONDITIONS ON THE SITE DURING THE BIDDING. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK AND THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES PRIOR TO PROCEEDING.
- UNLESS OTHERWISE SHOWN OR NOTED, ALL PHASES OF WORK ARE TO CONFORM TO THE MINIMUM STANDARDS OF THE 2013 CALIFORNIA BUILDING CODE (2013 EDITION C.B.C.), RELATED REFERENCE STANDARDS (2013 EDITION CHAPTER 35), AND ANY A.S.T.M. SPECIFICATIONS WHICH THESE STANDARDS ARE BASED. WHERE CONFLICT BETWEEN BUILDING CODES AND SPECIFICATIONS OCCURS, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.
- ALL A.S.T.M. DESIGNATIONS REFERRED TO ON THESE DRAWINGS SHALL BE THE LATEST ADOPTED OR REVISED SPECIFICATION, AS OF THE DATE OF THESE DRAWINGS.
- ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS. DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
- NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- THE STRUCTURAL DRAWINGS SHOW ONLY THE BASIC STRUCTURAL REQUIREMENTS. REFER TO CIVIL ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR NON-STRUCTURAL.
 - SIZE AND LOCATION OF ALL OPENINGS.
 - SIZE AND LOCATION OF ALL NONBEARING PARTITIONS.
 - SIZE AND LOCATION OF ALL CONCRETE CURBS, WALKS, ROOF AND FLOOR DRAINS, SLOPES, DEPRESSED SLAB AREAS, ETC.
 - FLOOR, ROOF AND WALL FINISHES.
 - DIMENSION NOT SHOWN ON STRUCTURAL DRAWINGS.
 - EQUIPMENT ANCHORAGE
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT LIFE AND THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING AND SHORING OF LOADS DUE TO CONSTRUCTION, EQUIPMENT, WIND, EARTHQUAKE, ETC. CONTRACTOR AT HIS OWN EXPENSE, SHALL ENGAGE PROPERLY QUALIFIED PERSONS TO DETERMINE WHERE AND HOW TEMPORARY PRECAUTIONARY MEASURES SHALL BE USED AND INSPECT SAME IN FIELD. CONTRACTOR SHALL CONFORM TO ALL SAFETY ORDINANCES, RULES AND CODES. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE SAFETY ITEMS.
- SATISFACTORY EXECUTION OF CONSTRUCTION IS DEPENDENT UPON CONFORMANCE WITH THE INTENT OF THESE DRAWINGS. OWNER OR CONTRACTOR SHALL RETAIN A CALIFORNIA LICENSED CIVIL OR STRUCTURAL ENGINEER DURING CONSTRUCTION TO OBSERVE THE CONSTRUCTION AND STATE THAT THE STRUCTURE HAS BEEN BUILT IN GENERAL CONFORMANCE WITH THE INTENT OF THESE DRAWINGS.
- THIS FIRM DOES NOT PRACTICE OR CONSULT IN THE FIELD OF SAFETY ENGINEERING. WE DO NOT DIRECT THE CONTRACTOR'S OPERATIONS AND WE CANNOT BE RESPONSIBLE FOR THE SAFETY OF PERSONNEL OTHER THAN OUR OWN ON THE SITE. THE SAFETY OF OTHERS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHOULD NOTIFY THE OWNER IF HE CONSIDERS ANY OF THE RECOMMENDED ACTIONS PRESENTED HEREIN TO BE UNSAFE.
- CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOF. LOAD SHALL NOT EXCEED DESIGN LIVE LOAD FOR EACH PARTICULAR LEVEL. WHEN WEIGHT OF MATERIALS OR EQUIPMENT MAY EXCEED DESIGN LOAD, STRUCTURAL SYSTEMS SHALL BE SHORED.
- WHERE NO CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF THE WORK, THE DETAILS SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.
- NO PIPES OR DUCTS SHALL BE PLACED IN SLABS OR WALLS UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE ENGINEER.

FOUNDATION:

- REMOVE EXISTING SOIL TO A MINIMUM OF 4" BELOW FINISHED PAD ELEVATION, 1"-6" MIN. BELOW ANY FOOTING AND 4" MIN BELOW EXISTING GROUND SURFACE TO A DISTANCE OF 5' BEYOND THE BUILDING OR STRUCTURE. REPLACE WITH IMPORTED NON EXPANSIVE SOIL WITH EXPANSION LESS THAN 20. SEE ARCHITECTURAL SITE DRAWINGS.
- ALLOWABLE SOIL PRESSURE:

FOOTING TYPE	STATIC BEARING PRESSURE
SPREAD FOOTING	1,500 P.S.F.
- FOR ALL DIMENSIONS, CURBS, SLAB DEPRESSIONS, STEPS, FLOOR DRAINS, FLOOR SINKS, TRENCHES, UNDERFLOOR DUCTS AND CONDUITS SEE ARCHITECTURAL, MECHANICAL, REFRIGERATION, AIR CONDITIONING, PLUMBING, ELECTRICAL, AND FOOD SERVICE DRAWINGS, TRENCH BACKFILL AS PER SOILS REPORT REQUIREMENTS.
- ALL WALLS RETAINING EARTH SHALL DRAIN TO DAYLIGHT OR OTHER DRAINAGE.
- ALL ABANDONED FOOTINGS, UTILITIES, ETC., THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.
- THE CONTRACTOR SHALL DETERMINE THE LOCATION OF UTILITY SERVICES IN AREAS TO BE EXCAVATED BEFORE BEGINNING EXCAVATION. EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING. DAMAGES CAUSED AS A RESULT OF FAILING TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE FOR THE DESIGN, APPROVALS, PERMITS, INSTALLATION AND MONITORING OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED TO SAFELY RETAIN TEMPORARY EXCAVATIONS.
- ALL PLANTERS IN CLOSE PROXIMITY TO THE STRUCTURE SHALL HAVE ADEQUATE DRAINAGE OF SURFACE WATER TO PREVENT SATURATION OF SOIL UNDER FOUNDATION.

REINFORCING STEEL:

- ALL REINFORCING STEEL SHALL BE PLACED IN CONFORMANCE WITH THE C.B.C., AND THE "MANUAL OF STANDARD PRACTICE" BY THE C.R.S.I. OR AS MODIFIED BY THE CONSTRUCTION DOCUMENTS.
- REINFORCING BARS SHALL CONFORM TO A.S.T.M. A-615, GRADE 60. REINFORCING BARS THAT ARE TO BE WELDED SHALL CONFORM TO A.S.T.M. A-706, GRADE 60.
- WELDING OF REINFORCEMENT SHALL BE DONE WITH LOW HYDROGEN ELECTRODES AND SHALL CONFORM TO STRUCTURAL WELDING CODE REINFORCING STEEL - AWS/AWS D1.4 OF THE AMERICAN WELDING SOCIETY MINIMUM TENSILE STRENGTH OF WELD METAL SHALL BE 90 K.S.I. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS. QUALIFICATION TESTS MUST BE PERFORMED PER AWS, WPS'S SUBMITTED PRIOR TO REBAR WELDING.
- ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
- WELDED WIRE FABRIC SHALL CONFORM TO A.S.T.M. A-1064, AND SHALL BE LAPPED 1 SPACES AND 12" MINIMUM.
- DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE LAPPED WITH THE SAME GRADE, SIZE, SPACING AND NUMBERS AS THE VERTICAL REINFORCEMENT, RESPECTIVELY.
- REINFORCING SPLICES SHALL BE MADE AS INDICATED ON THE DRAWINGS.
- ALL VERTICAL REINFORCING SHALL BE CONTINUOUS BETWEEN TWO LEVELS. U.N.O.
- SLAB ON GRADE REINFORCING SHALL BE POSITIONED AT MID-DEPTH
- PROVIDE #3 SPACER TIES AT 2'-6" ON CENTER IN ALL BEAMS AND FOOTINGS TO SECURE REINFORCING BARS IN PLACE, U.N.O.
- ALL REBAR SIZES ON THESE DRAWINGS ARE IN ENGLISH UNITS. SEE TABLE BELOW FOR METRIC EQUIVALENT.

ENGLISH BAR SIZE DESIGNATION	#3	#4	#5	#6	#7	#8	#9	#10	#11	#14	#18
METRIC BAR SIZE DESIGNATION	10MM	15MM	15MM	20MM	25MM	25MM	30MM	35MM	35MM	45MM	55MM

CONCRETE:

- ALL CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 318-14 AND A.C.I. 301 LATEST EDITION "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", EXCEPT AS MODIFIED BY THE SUPPLEMENTAL REQUIREMENTS CONTAINED HEREIN OR SHOWN ON THE DRAWINGS. IN CASE OF CONFLICT ACI 318-14 SHALL GOVERN.
- ALL CONCRETE SHALL BE 150 P.C.F. HARDROCK, MIXED PER A.S.T.M. C-94, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 P.S.I. AT 28 DAYS. FREQUENCY OF CONCRETE SAMPLING SHALL CONFORM TO C.B.C. 1903A AND ACI 318, 5.6.
- THE MAXIMUM SIZE AGGREGATE IN FOUNDATION AND MASS CONCRETE WORK SHALL BE 1 INCH. THE MAXIMUM SIZE AGGREGATE IN SLABS ON GRADE, WALLS, AND ALL OTHER CONCRETE SHALL BE 3/4" INCH.
- CEMENT SHALL CONFORM TO A.S.T.M. C-150, TYPE V, LOW ALKALI. MIN. OF 6.25 SACKS PER CUBIC YARD OF CONCRETE. MAX. WATER/CEMENT RATIO = 0.45. AGGREGATES FOR NORMAL WEIGHT SHALL CONFORM TO A.S.T.M. C-33.
- ADMIXTURES AND COLORS (EXCEPT AS NOTED HEREIN) SHALL NOT BE USED UNLESS SUBSTANTIATING DATA IS SUBMITTED TO AND ACCEPTED BY THE ENGINEER AND ARCHITECT OF RECORD. ADMIXTURES MUST BE APPROVED BY DSA.
- CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY. THE MIX DESIGNS SHALL CONFORM TO C.B.C. SEC. 1903A, 1905A AND ACI 318 CH 4 AND 5.1 THROUGH 5.5. UNLESS NOTED OTHERWISE.
- PROVIDE 2- #5 x 4'-0" LONG DIAGONAL BARS AT CORNERS OF WALL, FLOOR, AND ROOF OPENINGS AND INSIDE CORNERS OF FLOORS.
- NOT USED
- READY MIXED CONCRETE SHALL CONFORM TO (A.S.T.M. C-94)
- PLACEMENT OF CONCRETE SHALL CONFORM TO A.C.I. 304. CLEAN AND ROUGHEN TO 1/4" AMPLITUDE ALL CONCRETE SURFACES AGAINST WHICH CONCRETE IS TO BE PLACED.
- DRYPACK UNDER BASEPLATES, WHERE OTHERWISE NOTED ON DRAWINGS SHALL CONSIST OF 1 PART PORTLAND CEMENT AND 2 1/2 PARTS OF FINE AGGREGATE CONFORMING TO A.S.T.M. C-33 WITH ENOUGH WATER TO FORM A BALL WHEN SQUEEZED IN THE HAND. THE SPACE BETWEEN TWO SURFACES REQUIRING DRYPACK SHALL BE PACKED WITH THE DRYPACK MATERIAL BY TAMPING OR RAMMING WITH A BAR OR ROD UNTIL VOIDS ARE COMPLETELY FILLED.
- ALL EXPOSED CONCRETE SHALL HAVE A SMOOTH FORM FINISH USING B-B PLYFORM, CLASS 1, EXT-A.P.A. PLYWOOD.
- ALL SLABS SHALL HAVE A TROWELED FINISH EXCEPT AS NOTED ON THE DRAWINGS.
- ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS AND INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
- IF THE CONTRACTOR DESIRES TO MAKE ANY CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON THESE DRAWINGS, HE SHALL SUBMIT DETAILS OF CHANGES TO THE ENGINEER OF RECORD FOR REVIEW BEFORE STARTING WORK.
- NO BRICK OR POROUS MATERIAL SHALL BE USED TO SUPPORT FOUNDATION STEEL OFF THE GROUND
- PROVIDE 3/4 INCH CHAMFER ON ALL EXPOSED CONCRETE CORNERS, U.N.O.
- SLEEVE PLUMBING OPENINGS IN SLABS OR WALLS BEFORE PLACING CONCRETE, SLEEVES SHALL NOT INTERRUPT REINFORCING.
- ALL REINFORCING BARS SHALL BE PROVIDED WITH THE FOLLOWING CONCRETE MINIMUM COVER:

FOOTINGS AND SLABS CAST AGAINST EARTH	3"
FORMED CONCRETE EXPOSED TO EARTH OR WEATHER	2"
BEAMS AND GIRDERS	1 1/2"
WALLS	1 1/2"
COLUMN TIES	1 1/2"
SLABS (#11 AND SMALLER)	3/4"
- CONCRETE CURING: TYPICALLY REQUIRED FOR 10 DAYS.
- FUSION WELDING IS NOT PERMITTED UNLESS APPROVED BY THE ENGINEER OF RECORD AND DSA.

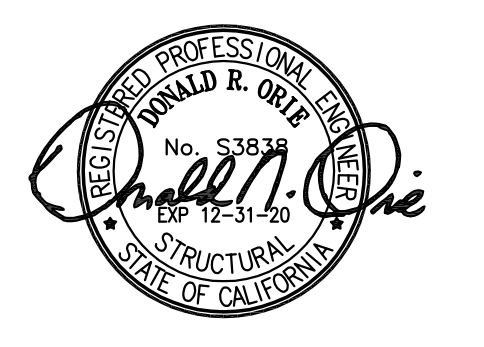
STEEL:

- FABRICATION AND ERECTION TO CONFORM TO A.I.S.C. LATEST ADOPTED EDITION "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" EXCEPT AS OTHERWISE SHOWN OR SPECIFIED.
- QUALIFIED AND CERTIFIED WELDERS SHALL BE USED FOR ALL WELDING. WELDING TO BE PERFORMED IN THE SHOP OF BOTH I.A.S. AND A.I.S.C. CERTIFIED FABRICATOR. ALL WELDING TO CONFORM TO THE LATEST ADOPTED EDITION OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE A.W.S. D1.1. SPECIAL INSPECTION IN SHOP IS REQUIRED.
- MATERIALS:

STRUCTURAL STEEL SHAPES	A.S.T.M. A-992, GRADE 50
STRUCTURAL STEEL PLATES	A.S.T.M. A-36
STRUCTURAL STEEL PIPES	A.S.T.M. A53 TYPE E OR S, GRADE B
WELDING ELECTRODES	A.W.S. A-5.1 OR A-5.5.
ANCHOR BOLTS	A.S.T.M. A-307
TYPICAL STEEL CONNECTION BOLTS	A.S.T.M. A-325X
MISCELLANEOUS BOLTS	A.S.T.M. A-307
GALVANIZING	A.S.T.M. A-123
RUST-INHIBITING PRIMER	TI-P-645
STEEL TUBING	A.S.T.M. A-500, GRADE B (F _y = 46 K.S.I.)
DEFORMED STEEL WIRE	A.S.T.M. A-496
- HOT-DIPPED GALVANIZE AFTER FABRICATION ALL STRUCTURAL STEEL (ASTM A-123 AND A-385) AND CONNECTORS (ASTM A-153) EXPOSED TO WEATHER. TOUCH UP DAMAGED GALVANIZING WITH GALVALLOY AFTER ERECTION IS COMPLETE. (ASTM A-780)
- CONNECTED MEMBERS SHALL BEAR ONLY UPON UNTHREADED PORTIONS OF BOLTS.
- BURNING OF HOLES IS NOT ALLOWED.
- INSPECTION OF WELDING SHALL CONFORM TO C.B.C. REQUIREMENTS (CHAPTER 17A)
- THE STRUCTURAL STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
- BOLT HOLES SHALL BE 1/16" LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLT USED. UNLESS NOTED OTHERWISE.
- STRUCTURAL STEEL SHALL BE DELIVERED TO THE JOB SITE FREE OF EXCESSIVE RUST, MILL SCALE, GREASE, ETC.
- OPENING SHALL NOT BE PLACED IN STEEL MEMBERS UNLESS SPECIFICALLY DETAILED.

WELDING:

- ALL WELDING SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE AMERICAN WELDING SOCIETY CODE D1.1. (LATEST ADOPTED EDITION.)
- ALL WELDING SHALL BE DONE BY AWS CERTIFIED WELDERS.
- ALL WELDING SHALL BE DONE BY THE SHIELDED ARC PROCESS USING APPROVED ELECTRODES PER A.W.S. SPECIFICATIONS E70 (LOW HYDROGEN ELECTRODES)
- NOT USED
- ALL ELECTRODES FILLER MATERIAL SHALL BE A MINIMUM OF E70.
- WELDING OF REINFORCING BARS TO BE IN ACCORDANCE WITH A.W.S. D1.4. REINFORCING STEEL TO BE WELDED SHALL HAVE A CARBON EQUIVALENT (CE) OF 0.75. SPECIAL INSPECTION IS REQUIRED.
- WELDING OF SHEET METAL SHALL BE IN ACCORDANCE WITH A.W.S. D1.3
- SPECIAL INSPECTION IS REQUIRED FOR ALL WELDING.
- ALL SHOP AND FIELD WELDING OF MOMENT CONNECTIONS OR MOMENT RESISTING FRAMES, AND ALL COLUMN SPLICE WELDS, SHALL BE TESTED AS PER C.B.C.



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Project Title
**CALEXICO UNIFIED SCHOOL DISTRICT
 CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
TYPICAL NOTES

	Document Date 09-12-18	Project Number 18-250X
	Date Last Revised	Sheet Number SO.1

EXPANSION AND ADHESIVE ANCHORS:

*CONCRETE ADHESIVE ANCHORS SHALL BE BY "HLTI" HIT HY-200 ADHESIVE ANCHOR SYSTEMS OR APPROVED EQUAL (ESR-3187). MASONRY ADHESIVE ANCHORS SHALL BE "HLTI" HIT HY70 (ESR-2682).

Table with 5 columns: ANCHOR DIAMETER (IN.), EXPANSION (KB-TZ), ADHESIVE (HIT HY-200), EMB., TORQUE (FT-LB), LOAD (LB), TORQUE (FT-LB).

NOTE: EDGE DISTANCE SHALL BE EQUAL TO OR GREATER THAN CRITICAL EDGE DISTANCE IN ICC REPORT FOR ANCHORS IN FULLY GROUTED CMU (f'm=2,000 psi) SPECIAL INSPECTION REQUIRED

Table with 5 columns: ANCHOR DIAMETER (IN.), EXPANSION (KB-3), ADHESIVE (HIT HY70), EMB., LOAD (LB), TORQUE (FT/LB).

NOTE: MINIMUM EDGE DISTANCE FROM EDGE OF WALL = 4in.

USE THE FOLLOWING SPECIAL INSPECTION TORQUE VALUES FOR SCREW ANCHORS:

Table with 6 columns: ANCHOR TYPE / DIAMETER (IN.), EMBED., ICC REPORT, BASE MATERIAL, TORQUE (FT-LB).

- 2. "APPROVED EQUAL" SUBSTITUTIONS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO INSTALLATION. CDD APPROVED BY THE "DIVISION OF THE STATE ARCHITECT" WILL BE REQUIRED FOR ANY SUBSTITUTIONS.

HYDRAULIC RAM METHOD: THE ANCHOR SHALL HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD APPLIED FOR A MINIMUM OF (15) SECONDS. FOR WEDGE AND SLEEVE TYPE ANCHORS, A PRACTICAL WAY TO DETERMINE OBSERVABLE MOMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE.

TORQUE WRENCH METHOD: THE APPLICABLE TEST LOAD MUST BE REACHED WITHIN ONE-HALF (1/2) TURN OF THE NUT.

- 9. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE PASS, THEN RESUME INITIAL TESTING FREQUENCY.

LUMBER:

- 1. STRUCTURAL LUMBER SHALL BE STRESS-MARKED DOUGLAS FIR-LARCH S4S IN ACCORDANCE WITH GRADING AND DRESSING RULE NO. 16 OF THE WEST COAST LUMBER INSPECTION BUREAU (LATEST EDITION)

- 24. ALL BOLTS, LAG SCREWS, AND WOOD SCREWS SHALL BE RETIGHTENED PRIOR TO THE APPLICATION OF DRYWALL, PLYWOOD, PLASTER, ETC.

- 25. THE MOISTURE CONTENT OF WOOD MEMBERS SHALL NOT EXCEED 19%, BEFORE INSTALLATION. IT WILL BE THE RESPONSIBILITY OF THE INSPECTOR OF RECORD TO VERIFY THAT THE CONTRACTOR HAS SUPPLIED LUMBER OF THE PROPER MOISTURE CONTENT BEFORE INSTALLATION.

MACHINE APPLIED NAILING:

- 1. THE USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOB SITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL OF THE JOB SITE ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.

NAILING SCHEDULE: 2016 CBC TABLE NO. 2304.9.1

Table with 3 columns: CONNECTION, FASTENING a,m, LOCATION. Lists various construction connections and their required fasteners.

FOR SB: 1 inch = 25.4 mm. a. COMMON OR BOX NAILS ARE PERMITTED TO BE USED EXCEPT WHERE OTHERWISE STATED.

STRUCTURAL OBSERVATION:

- 1. PER 2016 CALIFORNIA BLD'G STANDARDS ADMIN. CODE, SECTION 4-333. A LICENSED ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN, OR HIS DESIGNATED ENGINEER OR ARCHITECT MUST MAKE SITE VISITS TO OBSERVE GENERAL COMPLIANCE WITH THE APPROVED STRUCTURAL PLANS, SPECIFICATIONS AND CHANGE ORDERS.

ABBREVIATIONS

Table of abbreviations and their full names, organized in columns.



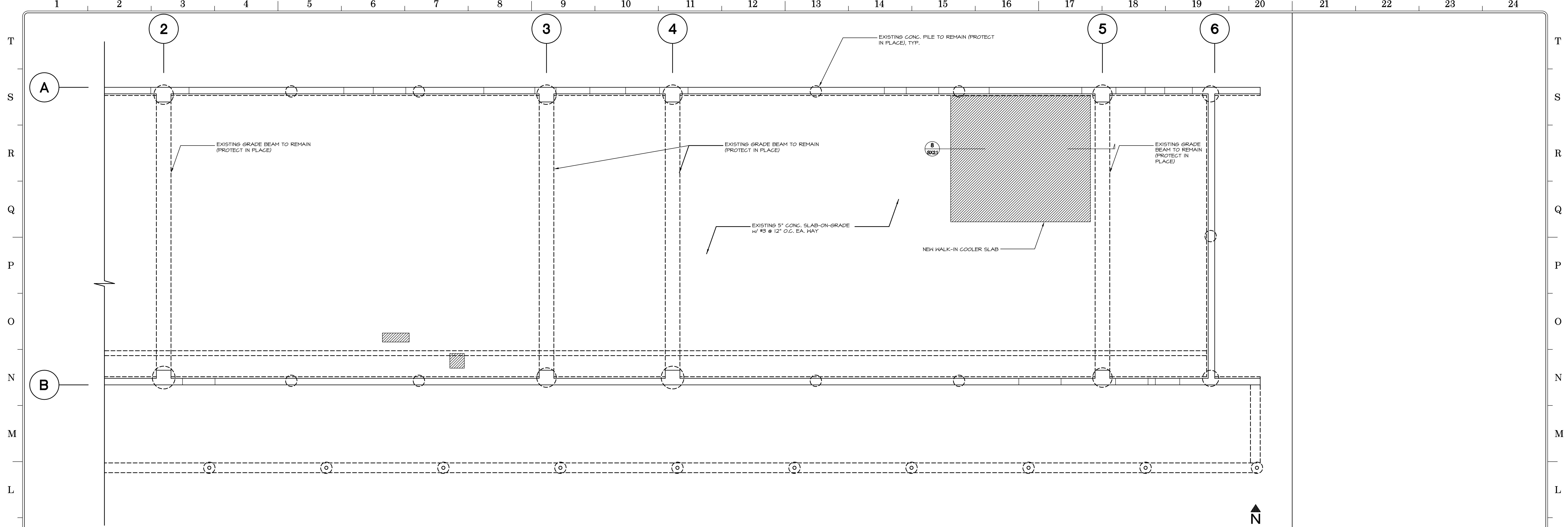
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Sanders, INC. Architecture/Engineering 1102 INDUSTRY WAY, SUITE A EL CENTRO, CA 92243 760 353 5440 FAX 760 353 5442

Project Title CALEXICO UNIFIED SCHOOL DISTRICT CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION

TYPICAL NOTES

Table with 3 columns: Document Date, Project Number, Sheet Number. Includes a stamp for Sanders, Inc.



FOUNDATION PLAN

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

NOT USED

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

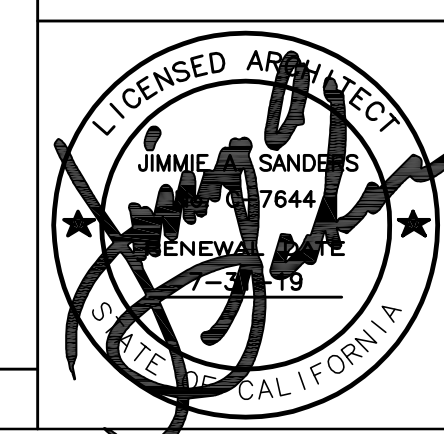


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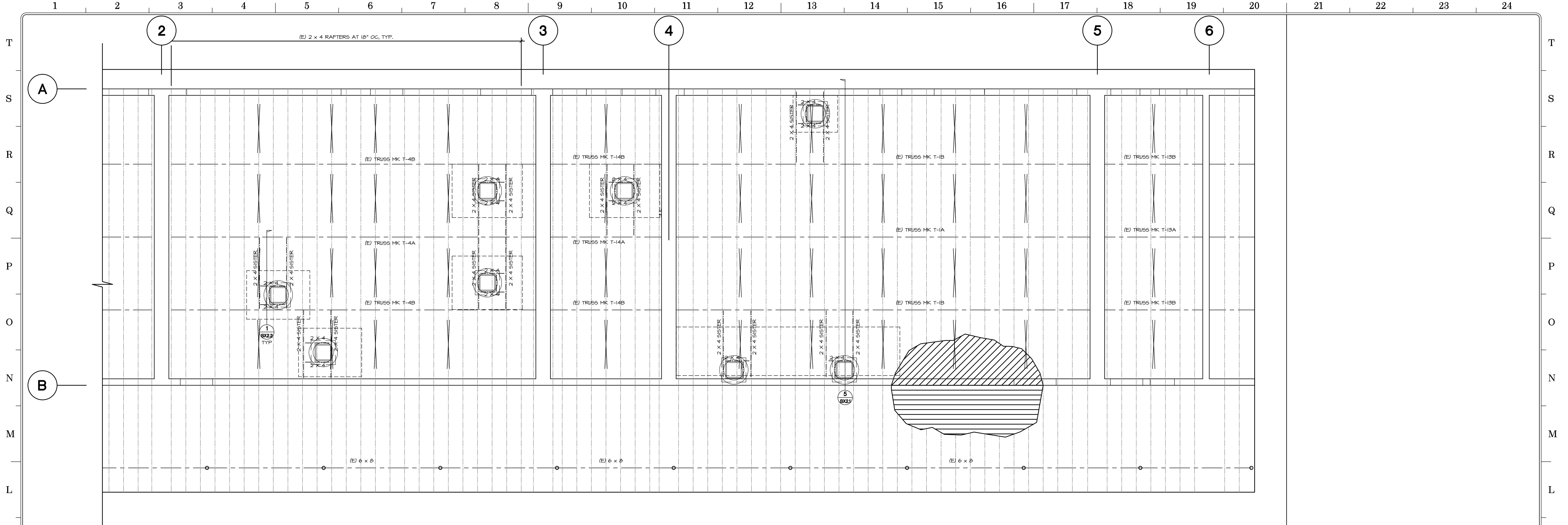
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**CALEXICO UNIFIED HIGH SCHOOL DISTRICT
 CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
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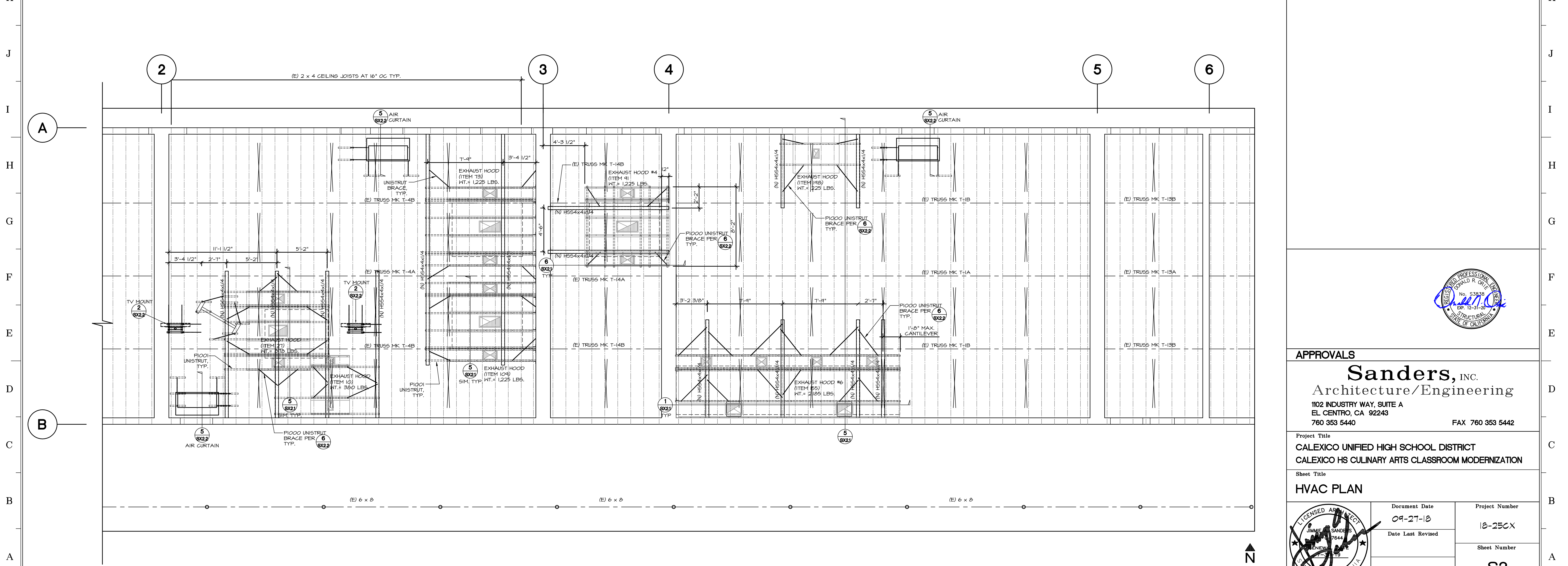
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S1



EXISTING ROOF FRAMING PLAN w/ NEW EQUIPMENT

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



EXHAUST HOOD SUPPORT FRAMING AT EXISTING CEILING FRAMING

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

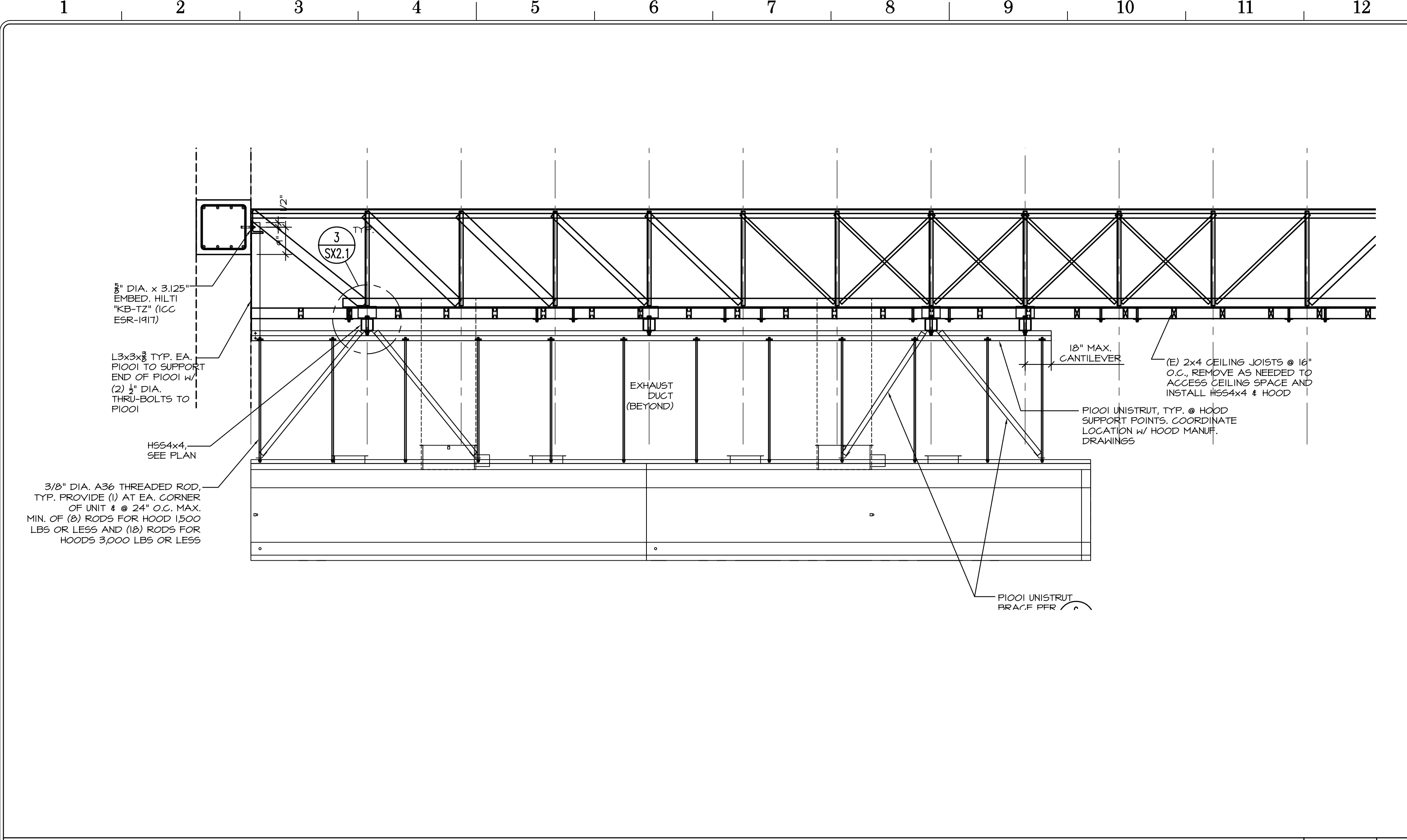


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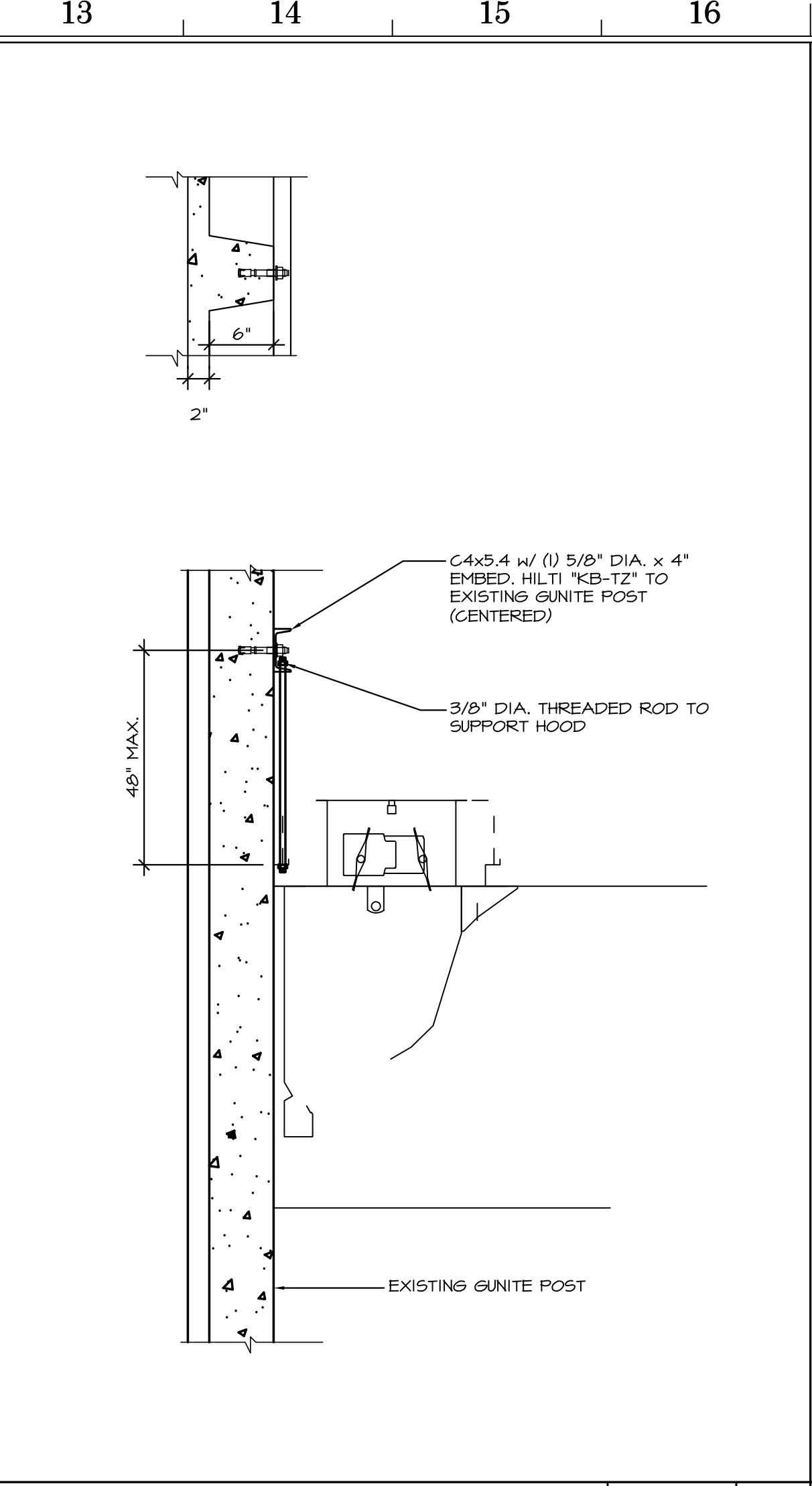
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 CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
HVAC PLAN

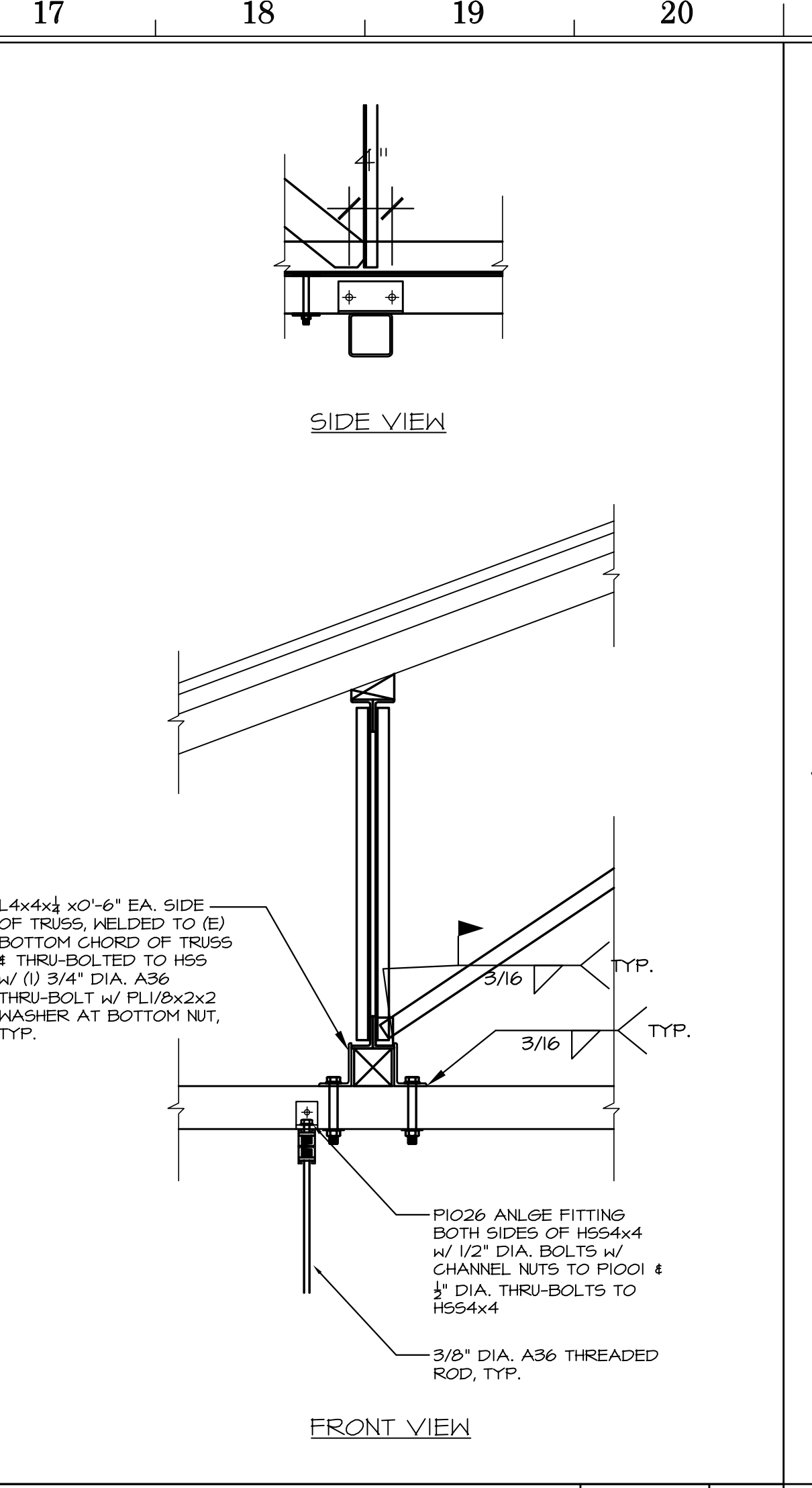
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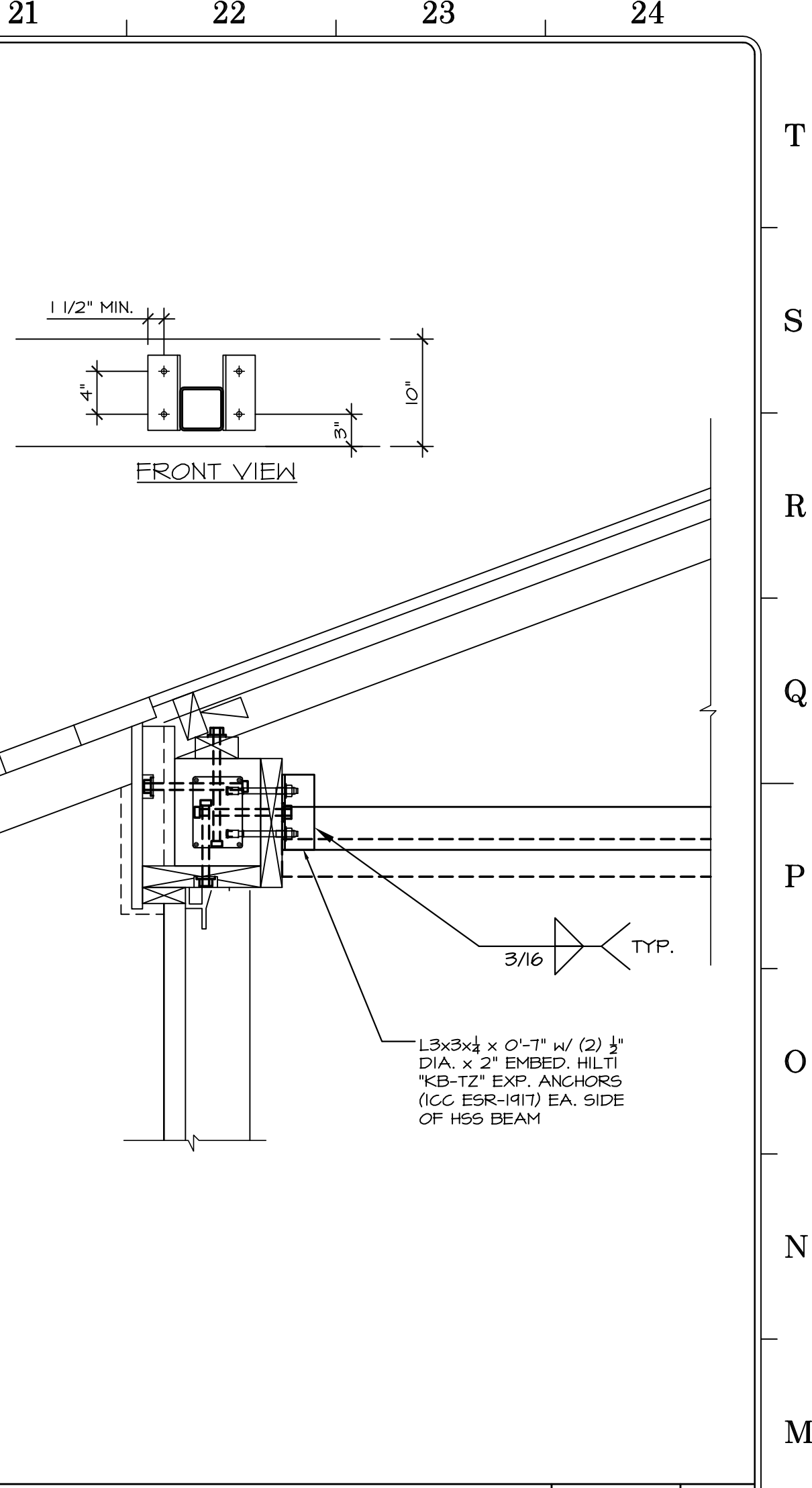
EXHAUST FAN SUPPORT AND OPENING FRAMING DETAIL SCALE: 1" = 1'-0" 1



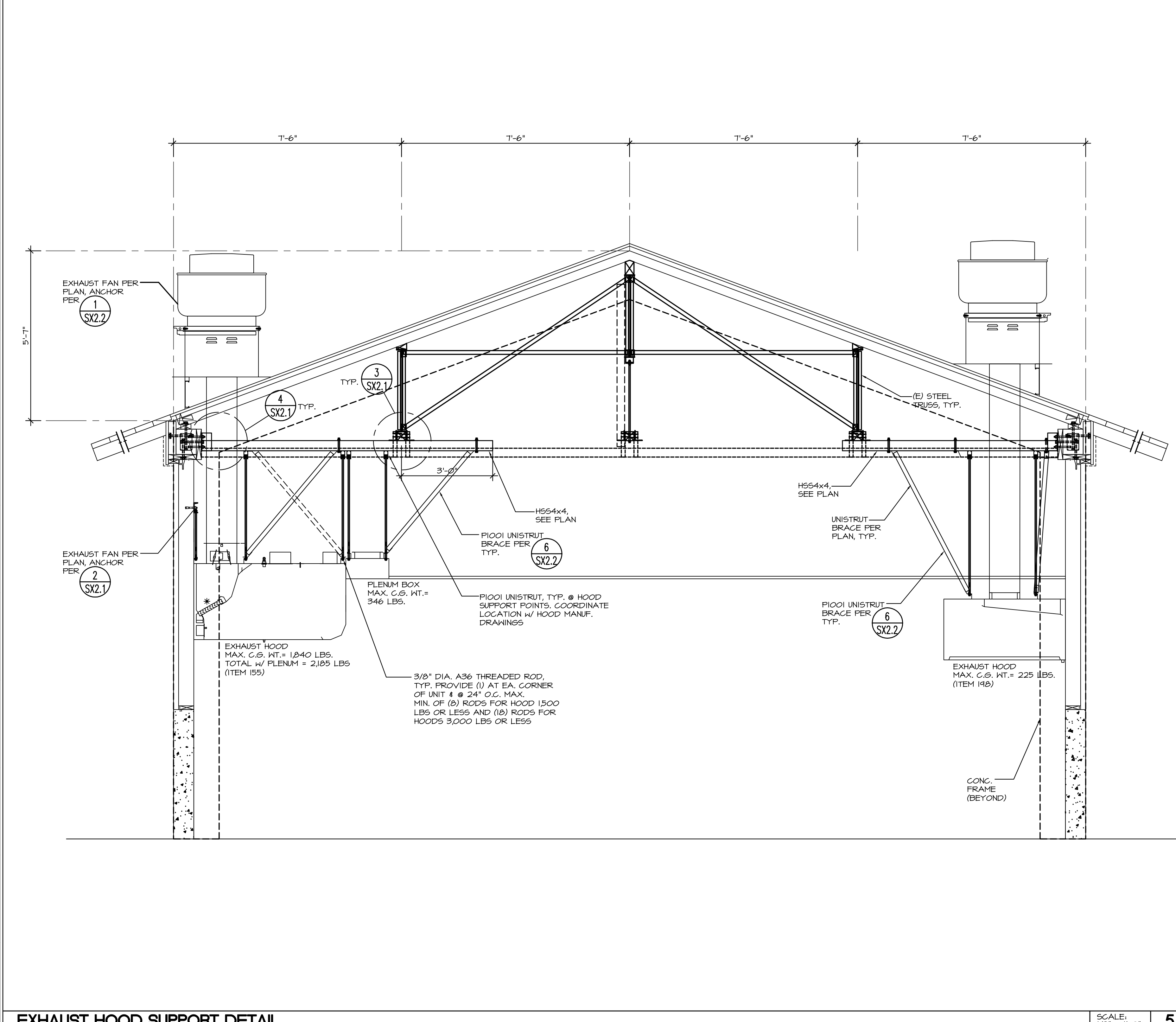
HOOD SUPPORT DETAIL SCALE: 1" = 1'-0" 2



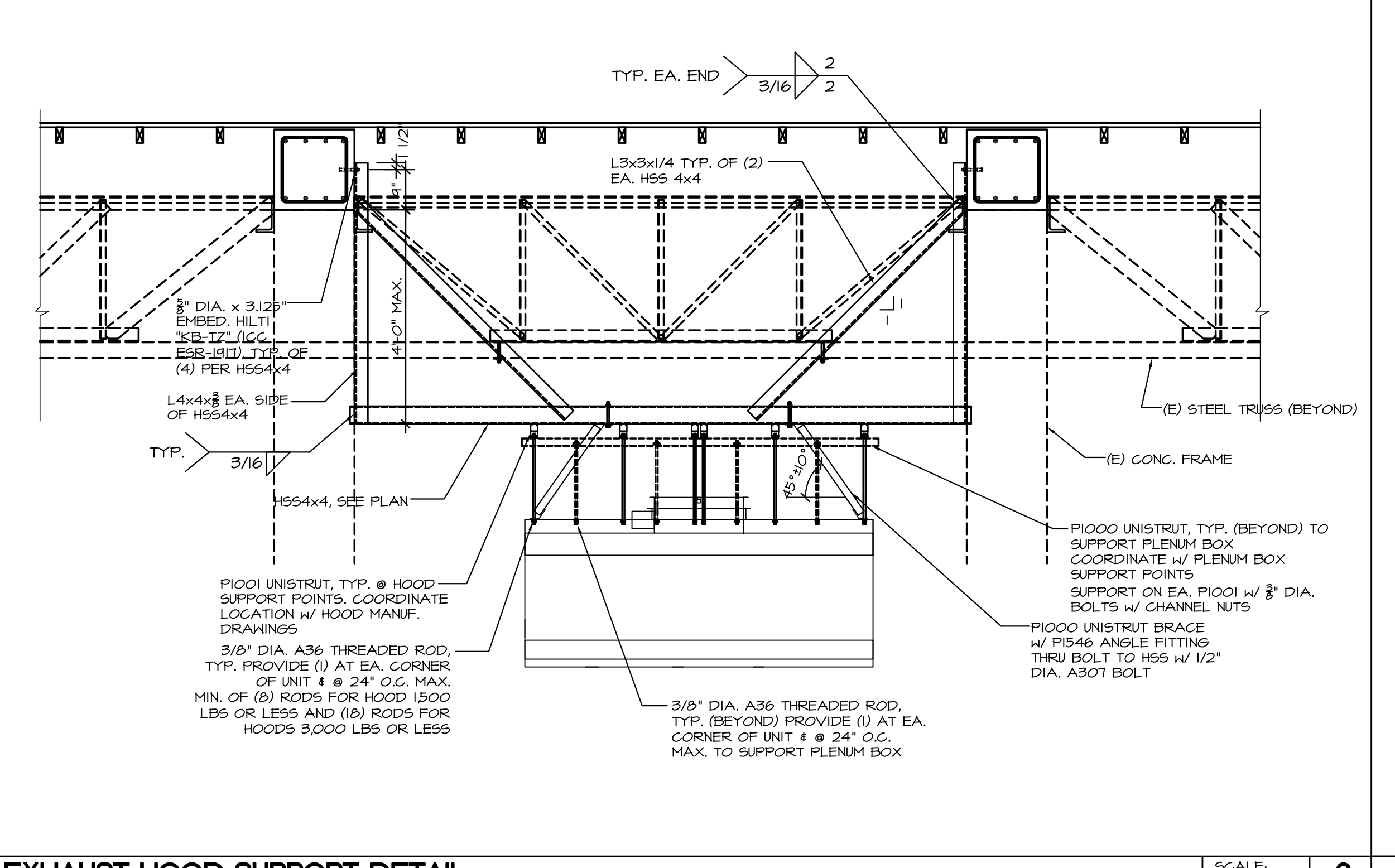
HOOD SUPPORT DETAIL SCALE: 1" = 1'-0" 3



FRAMING DETAIL SCALE: 1" = 1'-0" 4

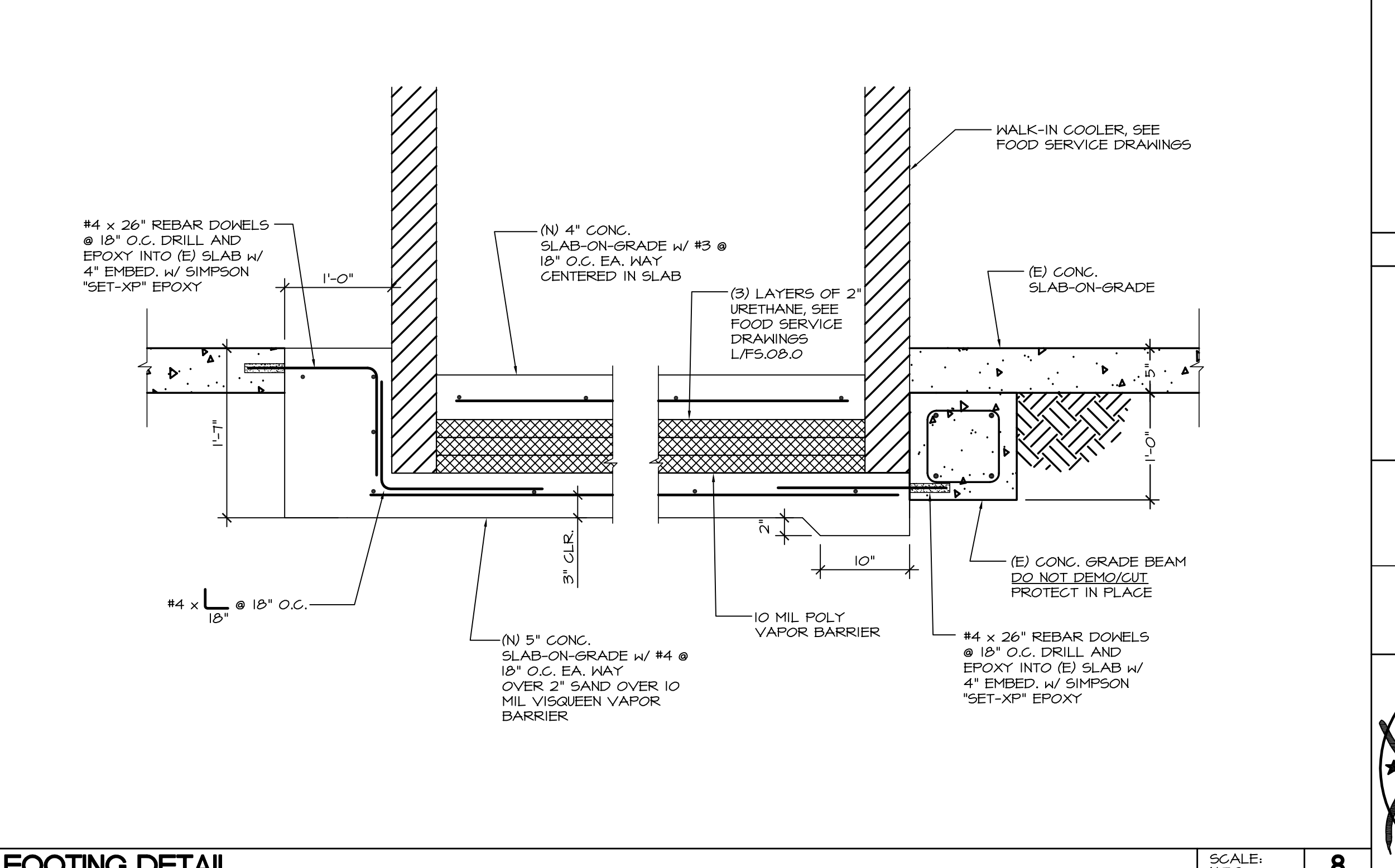


EXHAUST HOOD SUPPORT DETAIL SCALE: 1/2" = 1'-0" 5



EXHAUST HOOD SUPPORT DETAIL SCALE: 1/2" = 1'-0" 6

NOT USED SCALE: 1" = 1'-0" 7



FOOTING DETAIL SCALE: N.T.S. 8

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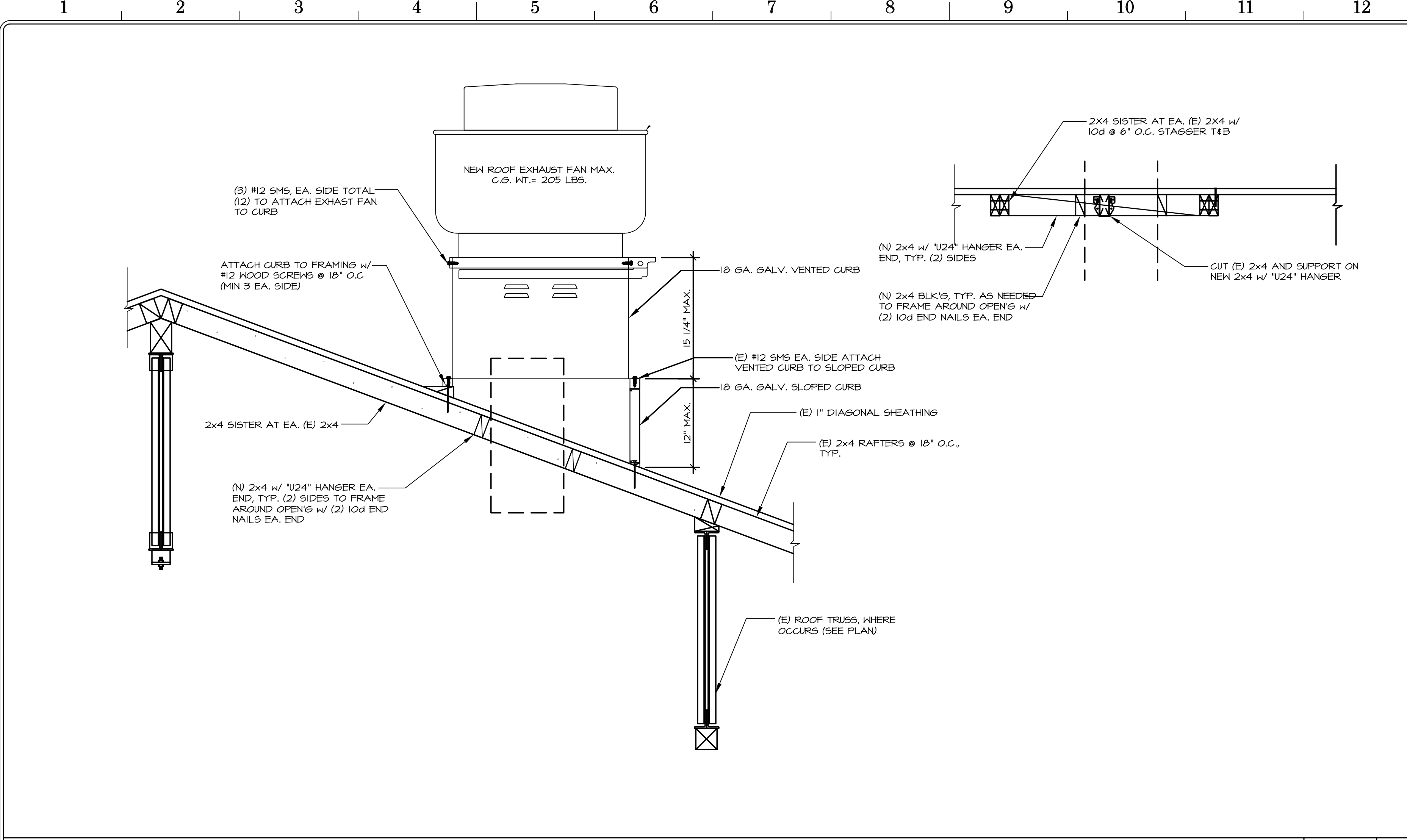
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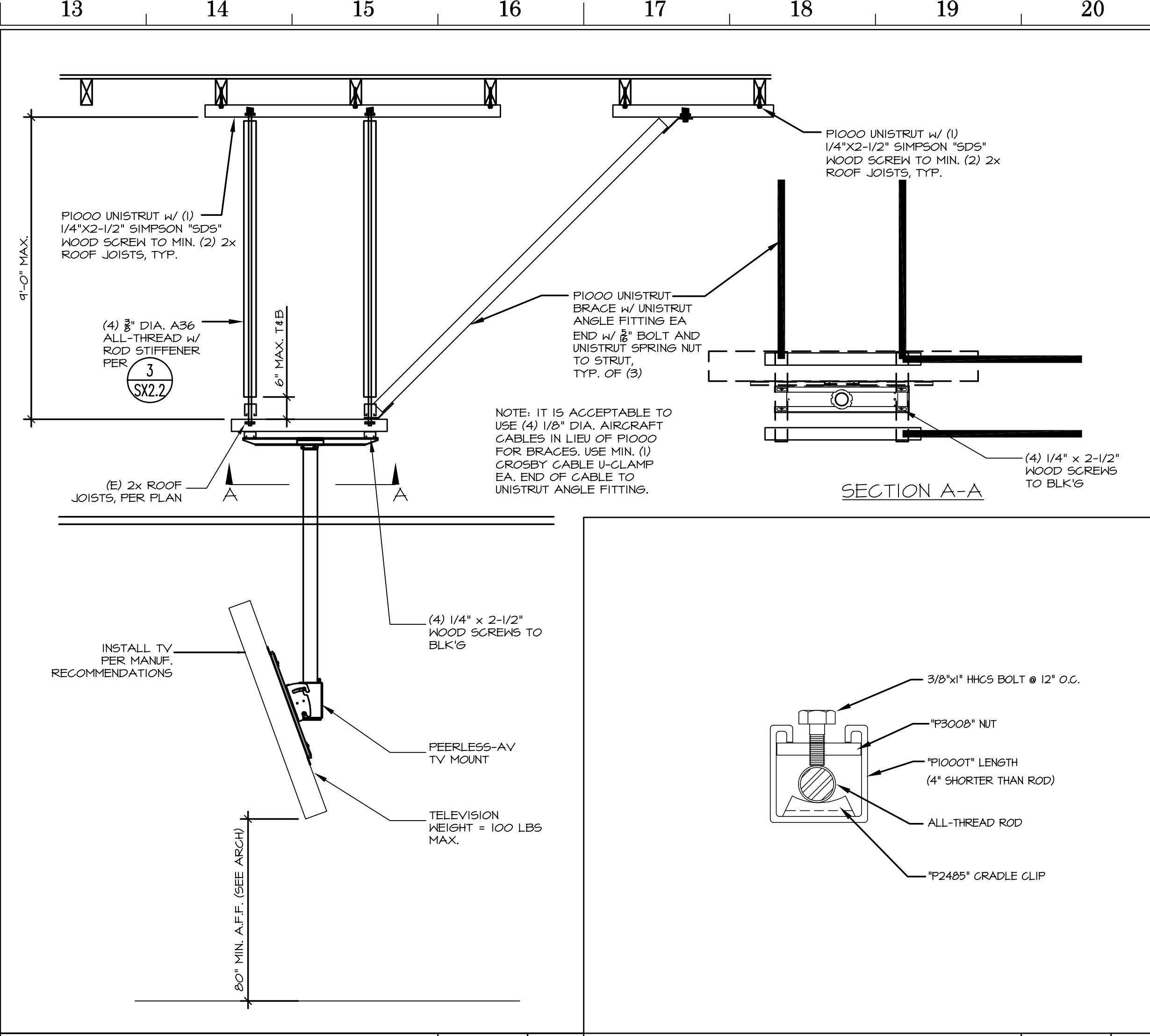
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REGISTERED PROFESSIONAL ARCHITECT
 No. 53885
ANDREW SANDERS
 ARCHITECT
 STATE OF CALIFORNIA

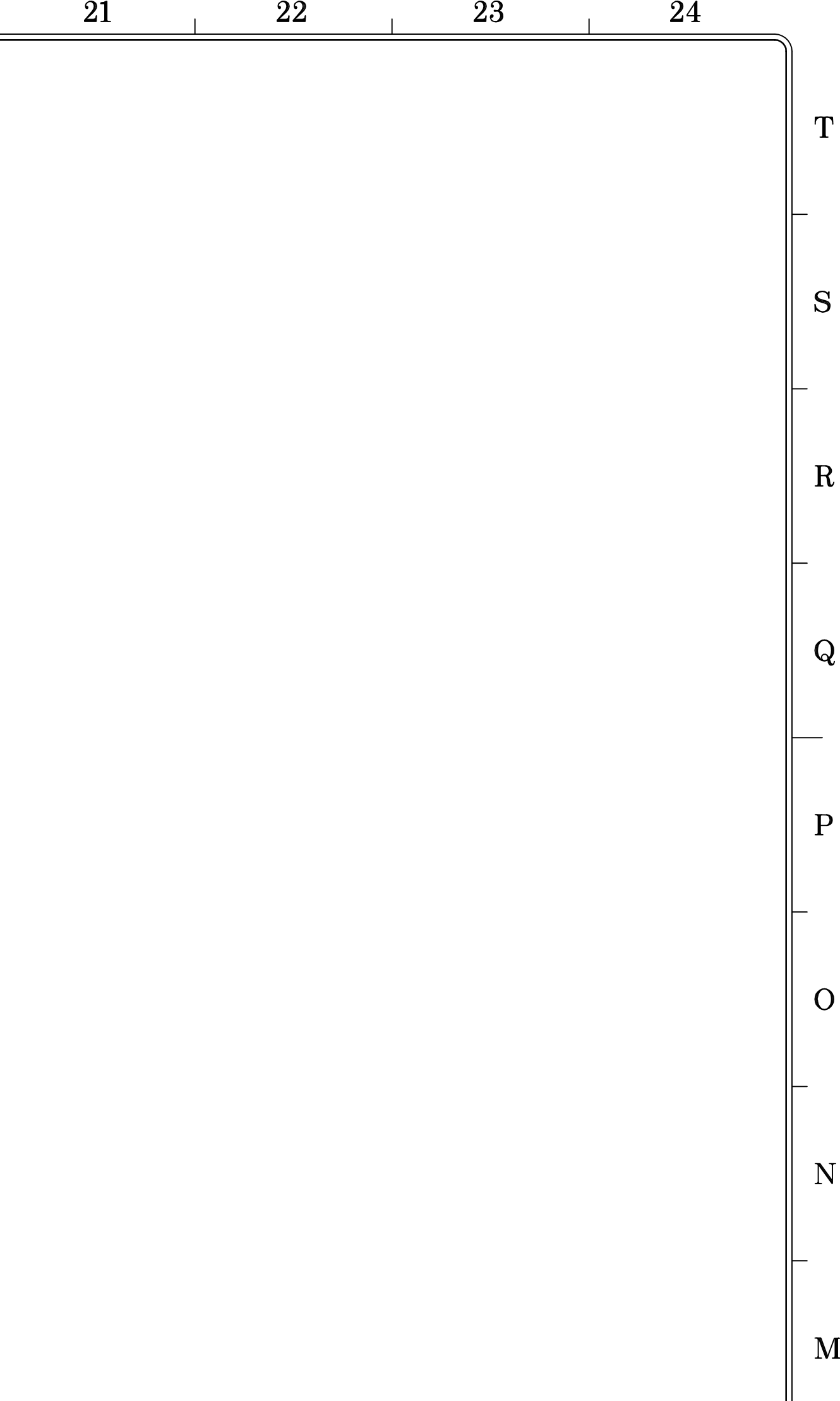
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 ARCHITECT
 STATE OF CALIFORNIA



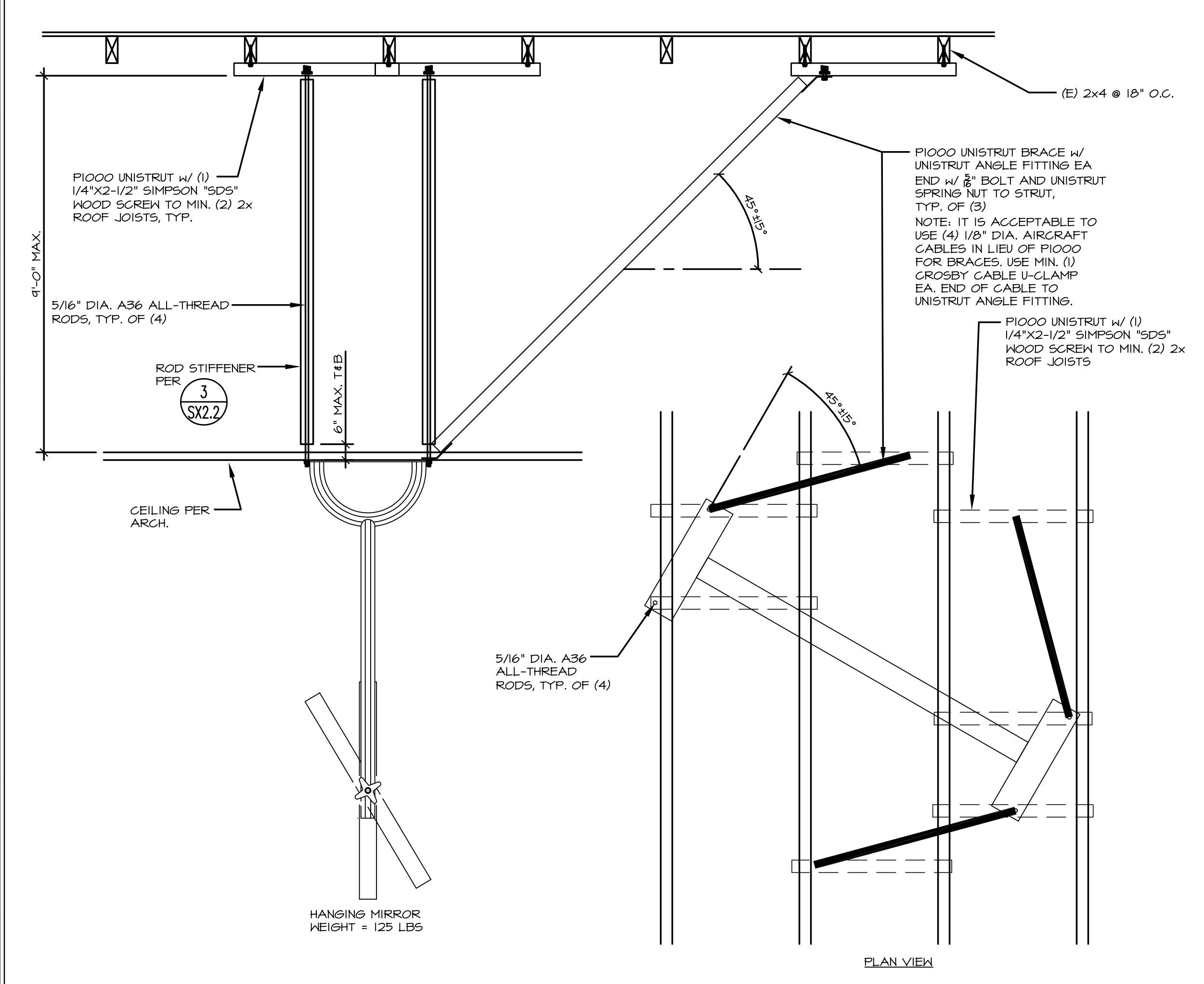
EXHAUST FAN SUPPORT AND OPENING FRAMING DETAIL SCALE: 1" = 1'-0" **1**



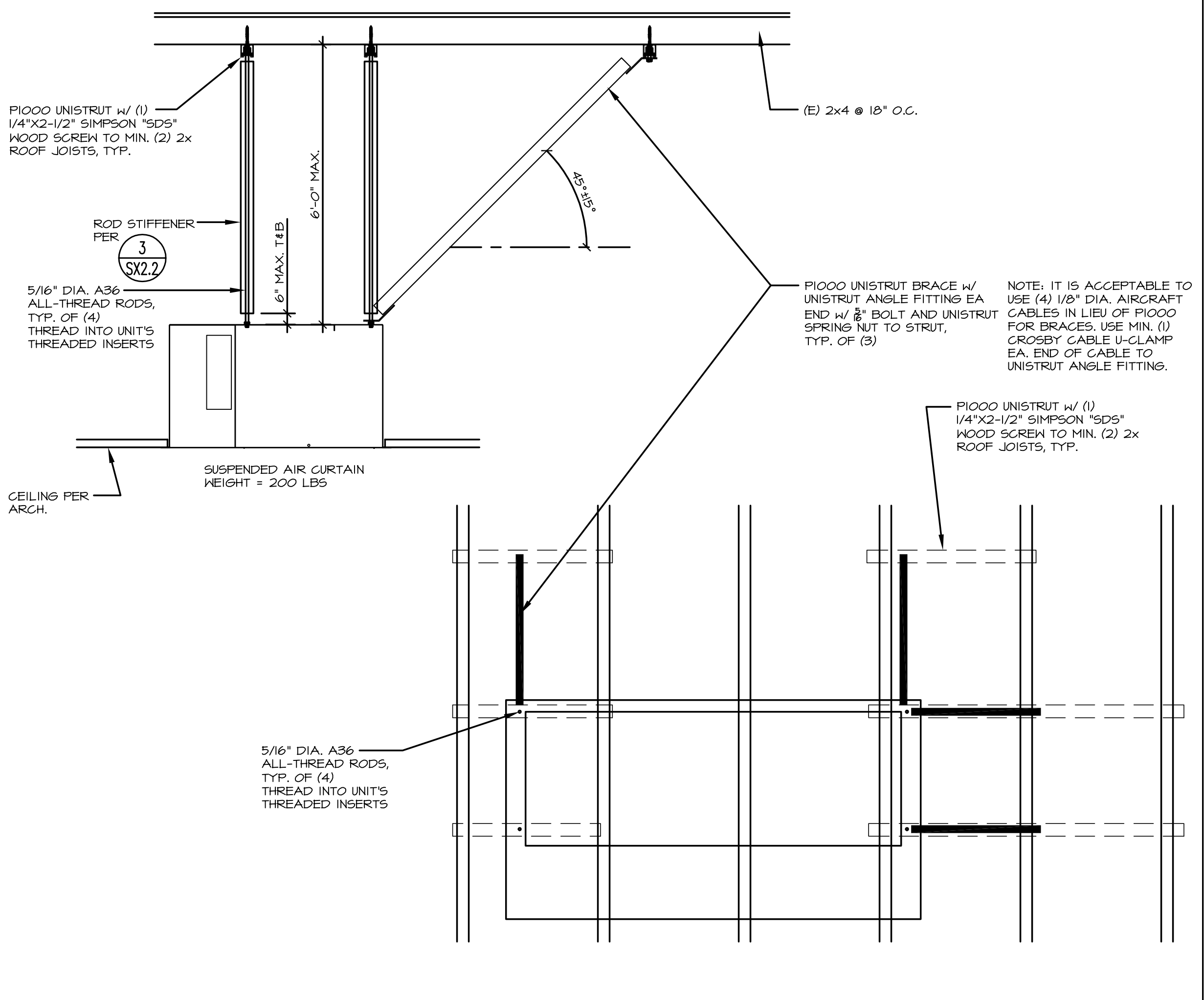
TV MOUNT ANCHORAGE DETAIL SCALE: 1" = 1'-0" **2**



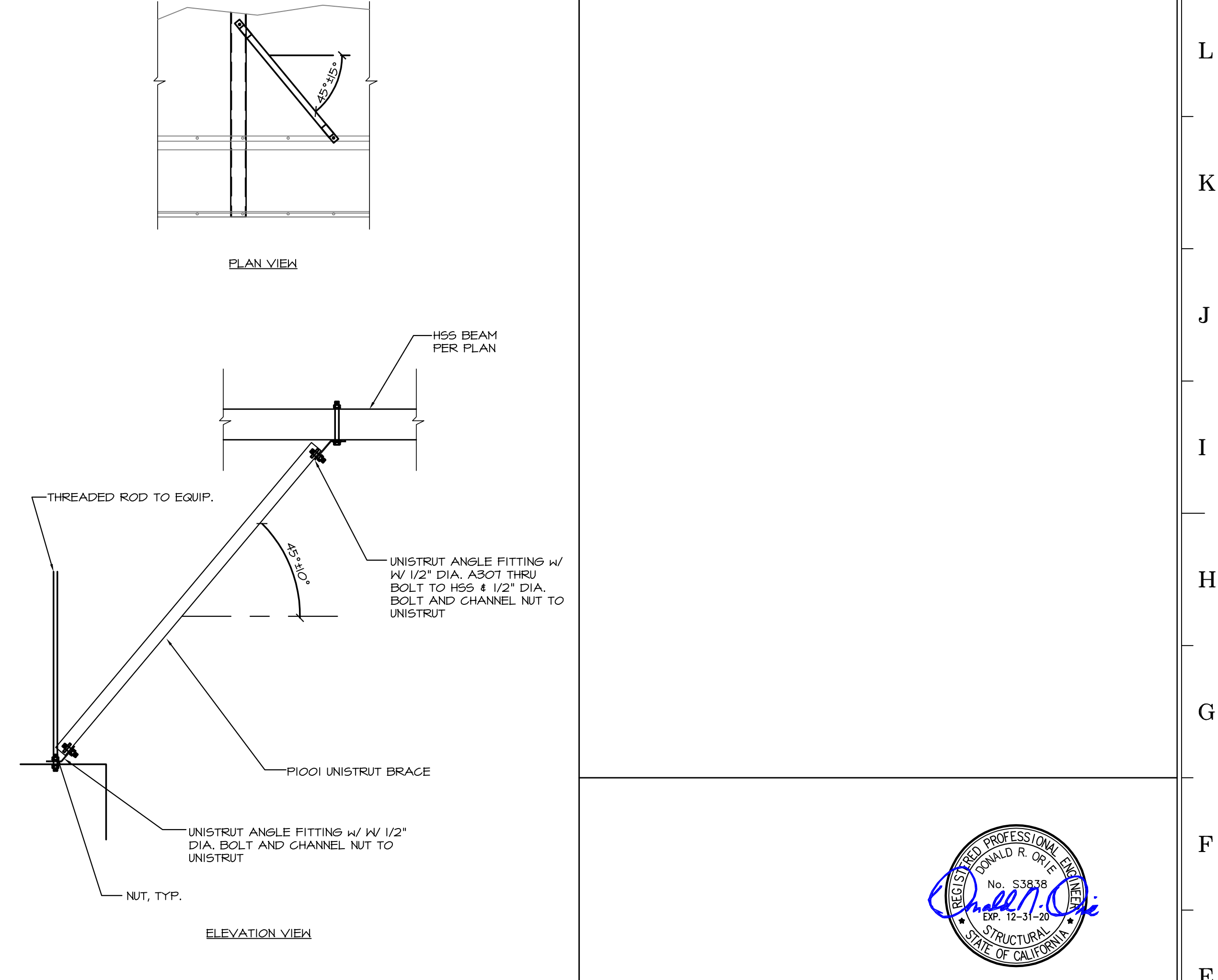
ROD STIFFENER DETAIL SCALE: 1" = 1'-0" **3**



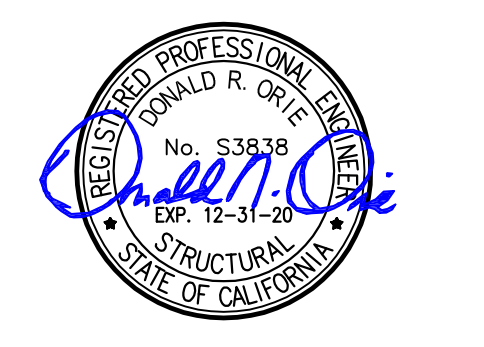
MIRROR ANCHORAGE DETAIL SCALE: 1" = 1'-0" **4**



AIR CURTAIN ANCHORAGE DETAIL SCALE: 1" = 1'-0" **5**



TYP. EQUIP. BRACE SCALE: 1" = 1'-0" **6**



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Sheet Title
STRUCTURAL DETAILS

	Document Date 09-12-18	Project Number 18-25CX
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ABBREVIATIONS

Table of abbreviations for construction terms, including A.C.C., A.F.F., A.P., ACR, ADA, ADOTL, ADJ., ALT., ALUM., AMPS., APPROX., ARCH., ASS'Y, ATTACH., B.F.C., B/C, BLDG, BLK, BRK, BRKT, BTU, BWP, C.O., C.T., C/E, C/L, C/T, C/W, CAB., CANT., CFM, CLG, CLR, CMU, CO2, COL, COMP'R, COMP'T, CONC, CONN., CONT., CONTR., CUST., CW, D., DM, DBL, DEPT, DET., DIA, DIAG, DIM., DISP., DIV., DMH, DN, DP, DPDT, DSA, DTA, DWG, DWR, E., E.C., E.F., E.G., EMT, E.P., EA, ELEV, E.M.S., EPH, EQ., EQUIP, ET, ET CETERA, EVAP, EXH, EXH, EXTERIOR, F.D., F.J., F.S., F.S.E.C., F.T., F.T.D., FEWD, FIN., FIXT, FLR, FLUOR, FPM, FRP, FRZ, F.S.S., FT, G.C., G.M., GA., GAL., GALV, GPH, GPM, H&C, H., H.I.D., H.V.A.C., HACCP, HORIZ, HP, HTR, HW, I.D., I.E., I.W., IN., INFO, INSUL, INT, IPS, J-BOX, KW, L., L/P, LBS, LIN, LOCN, LTS, MACH, MAT., MAX., MECH, MFR, MIN, MISC, MTD., MUA, MULL, N.A., NSF, N.T.S., N/A, NAT, No., OPEN BURNER, ON CENTER, OUTSIDE DIAMETER, OPENING, OFFICE STATE HEALTH PLANNING & DEVELOPMENT, OUNCE, P.B., P.C., PERF., PG, PH, PL, PLATE, PREP, PREV, PSF, PSI, PT, PVC, Q.D., Q.T., QT, QTY, RAD, RECOM'D, REFRIG, REMOV, REQ'D, RLA, RM, RND, RPPD, S.O.V., SP, S/C, S/S, SCHED, SECT, SHT, SHT, SIM, SL/SF, SMACNA, SNZ GD, SPEC, SQ FT, STMR, SW, SYM, SYS, T.B.D., T.C., TEL CO, TEMP., TYP, UBC, UDS, UL, UMC, UPC, UV, U/C, VCT, VS, VFD, W., W.G., W.H., W.I., W.I.C., W/, WGT, W.P., X-BRC.

ATTACHMENT NOTES

- THESE GUIDELINES HAVE BEEN PREPARED FOR USE BY ENGINEERS, ARCHITECTS AND CONTRACTORS, APPROVING AUTHORITIES, AND OTHERS AS AN AID IN STANDARDIZING DETAILS OF CONSTRUCTION FOR SEISMIC RESTRAINTS OF FOOD SERVICE EQUIPMENT COMPLYING WITH THE 2016 CALIFORNIA BUILDING CODE (CBC). IT IS NOT TO BE CONSTRUED TO BE A DESIGN GUIDELINE. THE APPLICATIONS OF THE DETAILS CONTAINED HEREIN TO A SPECIFIC PROJECT ARE THE RESPONSIBILITY OF THE DESIGN PROFESSIONAL. DIVISION OF THE STATE ARCHITECT (DSA) APPROVAL IS FOR ANCHORAGE ONLY. CONSTRUCTION OF EQUIPMENT MUST BE STRONG ENOUGH TO RESIST DESIGN FORCES.
THESE GUIDELINES WERE DEVELOPED USING SOUND ENGINEERING PRINCIPLES AND JUDGMENT. THEY REPRESENT REALISTIC AND SAFE DETAILS COMPATIBLE WITH GENERAL GUIDELINES AND FORCE FACTORS IN THE 2016 CALIFORNIA BUILDING CODE (CBC). THEY ARE SUBJECT TO REVISION AS FURTHER EXPERIENCE AND INVESTIGATION MAY SHOW IF NECESSARY. SMACNA ASSUMES NO RESPONSIBILITY AND ACCEPTS NO LIABILITY FOR THE APPLICATION OF THE PRINCIPLES OR TECHNIQUES CONTAINED IN THIS GUIDELINE.
1. - KITCHEN EQUIPMENT IS MANUFACTURED IN A MULTITUDE OF DIFFERENT SHAPES, SIZES, AND WEIGHTS. IN ORDER TO CODIFY THE VARIABLES, EQUIPMENT HAS BEEN ARRANGED INTO BASIC CATEGORIES OR TYPES. ALL EQUIPMENT WITHIN A CATEGORY HAS SIMILAR RESTRAINT REQUIREMENTS. DETAILS OF ANCHORAGE AND BRACING FOR EACH OF THE BASIC TYPES HAVE BEEN DEVELOPED. THE EQUIPMENT SHOWN IN THE INDEX IS NOT NECESSARILY A COMPLETE LIST, BUT THE LISTED EQUIPMENT DETAILS MAY BE USED AS A GUIDE FOR SIMILAR EQUIPMENT WITHIN THE RESTRAINTS INDICATED. THE PROJECT ARCHITECT/ENGINEER SHOULD BE CONSULTED IF THERE IS ANY DOUBT ABOUT RESTRAINT REQUIREMENTS, SO THAT ALLOWANCES FOR BRACING SYSTEMS MAY BE INCLUDED IN THE CONTRACT DOCUMENTS OR CONTRACTOR'S BID.
2. - ALL DETAILS IN THIS GUIDELINE ARE FOR EQUIPMENT THAT IS DIRECTLY CONNECTED TO UTILITIES. PLUG-IN TYPES ARE USUALLY EXCLUDED. THE EXCEPTION IS FREESTANDING CABINETS GREATER THAN FIVE FEET IN HEIGHT. THE DETAILS IN THE GUIDELINE SHOW AN ENTIRE ASSEMBLY.
3. - THE DETAILS HAVE BEEN PREPARED ON THE BASIS OF NEW CONSTRUCTION. THE SAME DETAILS ARE APPLICABLE TO REMODELING, PROVIDED THE SPECIFIED STRUCTURAL CAPACITIES OF THE EXISTING STRUCTURES, SUCH AS STUD WALLS, FLOORS, ETC., ARE EQUIVALENT SUBSTANTIATED.
4. - FINISHES INDICATED ON THE DETAILS ARE NOT INCLUDED IN THE KITCHEN EQUIPMENT CONTRACT.
5. - THE FOOD SERVICE EQUIPMENT CONTRACTOR SHALL PROVIDE LOCATION DRAWINGS FOR ALL EMBEDDED ITEMS AND WALL PLATES. THE GENERAL CONTRACTOR SHALL COORDINATE THE WORK OF OTHER TRADES AS THEY RELATE TO THE INSTALLATION OF KITCHEN EQUIPMENT.
6. - BACKING PLATES ON WALLS SHALL BE INSTALLED TO ENSURE A FLAT FINISHED WELL.
7. - CONCRETE ANCHORS WILL HAVE LOCAL-GOVERNING-JURISDICTION-APPROVED VALUES. CAST-IN-PLACE BOLTS, INSERTS, EXPANSION ANCHORS, OR HEAT-TREATED CONCRETE SCREWS MAY BE USED WHERE THE APPROVED LOADS ARE EQUAL TO OR GREATER THAN THE VALUES FOR THE SPECIFIED CONCRETE ANCHOR. THE STRUCTURAL ENGINEER SHOULD USE CAUTION WHEN USING THE SHALLOWEST ANCHOR IN THE APPROVED REPORTS BECAUSE IT MAY NOT PERFORM SATISFACTORILY WHEN SUBJECTED TO SEISMIC LOADS.
8. - ALL SCREWS INTO METAL FRAMING SHALL PENETRATE A MINIMUM OF 1/4" (6.4 MM) OR 5 PITCHED OF THREAD. ALL SCREWS INTO WOOD FRAMING SHALL PENETRATE A MINIMUM OF 1" (25.4 MM) UNLESS NOTED OTHERWISE.

BUILDING CONSTRUCTION NOTES

- 1. - REFER TO THE ARCHITECTS DRAWINGS AND SPECIFICATIONS FOR CURRENT BUILDING CODES

ELECTRICAL NOTES

- 1. - REFER TO THE ELECTRICAL ENGINEER'S DRAWINGS AND SPECIFICATIONS FOR CURRENT ELECTRICAL CODES AND ELECTRICAL NOTES

MECHANICAL / VENTILATING NOTES

- 1. - REFER TO THE MECHANICAL ENGINEER'S DRAWINGS AND SPECIFICATIONS FOR CURRENT MECHANICAL CODES AND MECHANICAL NOTES

PLUMBING NOTES

- 1. - REFER TO THE PLUMBING ENGINEER'S DRAWINGS AND SPECIFICATIONS FOR CURRENT PLUMBING CODES AND PLUMBING NOTES

REFRIGERATION NOTES

- 1. - ANY DISCREPANCIES BETWEEN PLANS AND CODE REQUIREMENTS THAT MAY AFFECT THE INSTALLATION, FABRICATION, OR OVERALL WORK IN ANY WAY SHALL BE BROUGHT TO THE ATTENTION OF THE FOOD SERVICE EQUIPMENT CONTRACTOR IMMEDIATELY BY THE REFRIGERATION CONTRACTOR, BEFORE START OF CONSTRUCTION.
2. - FOOD FACILITY REQUIREMENT NOTES AND ALL OTHER NOTES ARE TO BE CONSIDERED A PART OF THESE NOTES. REFRIGERATION CONTRACTOR TO PROVIDE AS THEY APPLY.
3. - CONTRACTOR SHALL BE RESPONSIBLE THAT HIS PHASE OF WORK MEETS AND IS INSTALLED IN ACCORDANCE WITH STANDARDS REQUIRED BY ALL GENERAL, STATE, FEDERAL, AND ALL CODES PECULIAR TO MUNICIPALITY OR AREA WHERE JOB IS BEING INSTALLED INCLUDING DEPARTMENT OF HEALTH SERVICES REQUIREMENTS.
4. - CONTRACTOR TO VERIFY ALL SERVICES, SIZES, AND LOCATIONS REQUIRED FOR REFRIGERATION EQUIPMENT. PROVIDE AND INSTALL ALL COMPRESSORS, REMOTE ICE MACHINE CONDENSING UNITS, REFRIGERANT PIPING, VALVES, FITTINGS, GAUGES, INSULATION, ETC., ALL AS REQUIRED, FOR A COMPLETE WORKING SYSTEM, UNLESS NOTED OTHERWISE.
5. - CONTRACTOR SHALL SEAL ALL REFRIGERATION PENETRATIONS THROUGH WALLS, FLOORS, AND CEILINGS. WATERTIGHT AND VERMIN-PROOF.
6. - ELECTRICAL SERVICE, CONTROL WIRING, AND CONNECTIONS TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
7. - REFRIGERATION COMPRESSOR(S) AND REMOTE ICE MACHINE CONDENSING UNIT(S) ARE TO BE LOCATED A MINIMUM OF TEN (10) FEET FROM COOKING EXHAUST FANS.
8. - REFRIGERATION COMPRESSOR(S) SHALL BE AIR COOLED, SEMI-HERMETIC TYPE WHERE POSSIBLE. BLOWER COILS SHALL BE VINYL DIPPED TYPE.
9. - CONTRACTOR TO PROVIDE & INSTALL INSULATED REFRIGERATION LINES IN WALLS AND/OR CEILINGS BEFORE THEY ARE CLOSED, AND FINISH SURFACE IS APPLIED.
10. - CONTRACTOR TO PROVIDE AND INSTALL SUPPORTS (TRAPEZE STYLE) FOR ALL OVERHEAD REFRIGERATION LINE RUNS.

FOOD FACILITY REQUIREMENTS NOTES

- 1. - A CONCRETE SLAB IS PROVIDED FOR TRASH, GARBAGE, AND GREASE CONTAINER. IF WALLS ENCLOSE AREA, THE INTERIOR WALL SURFACES WILL BE SMOOTH, SEALED AND WASHABLE (E.G., PLASTERED SMOOTH AND PAINTED, ETC.)
2. - ALL FOOD-RELATED AND UTENSIL-RELATED EQUIPMENT SHALL MEET OR BE EQUIVALENT TO SANITATION STANDARDS ESTABLISHED BY AN AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) ACCREDITED PROGRAM.
3. - ALL FLOOR MOUNTED EQUIPMENT WILL BE INSTALLED ON MINIMUM 6" SANITARY LEGS, CASTORS, OR COMPLETELY SEALED IN POSITIONED ON A 4-INCH HIGH CURB WITH CONTINUOUSLY COVED BASE. COUNTER TOP EQUIPMENT WILL BE ON 4-INCH SANITARY LEGS OR SEALED TO THE COUNTER UNLESS READILY MOBILE.
4. - NOT USED
5. - ANY OPENABLE WINDOWS, VENT OPENINGS OR OTHER SIMILAR OPENINGS MUST BE PROVIDED WITH TIGHT FITTING SCREENS OF MINIMUM 16-MESH TO THE INCH. WINDOWS TO BE FIXED AT FOOD PREP, UTENSIL-WASHING, OPEN FOOD AND UTENSIL STORAGE AREAS.
6. - ALL EXTERIOR DOORS OPEN OUTWARD AND ARE SELF-CLOSING AND TIGHT FITTING.
7. - BI-FOLD, FRENCH, ACCORDION STYLE AND ROLL-UP DOORS CANNOT OPEN INTO THE FOOD PREP, UTENSIL WASHING OR UNPACKING FOOD SERVICE AREAS.
8. - TOILET ROOM DOORS AND DRESSING ROOM DOORS MUST BE SELF-CLOSING AND TIGHT FITTING.
9. - DELIVERY DOORS TO HAVE AIR CURTAIN FANS THAT SPAN THE WIDTH OVER THE DOOR. THE FAN MUST ACTIVATE VIA A MICROSWITCH PROVIDING A MINIMUM VELOCITY OF 1600 FPM MEASURED 3- FEET ABOVE THE GROUND.
10. - A MINIMUM OF 10 FOOT-CANDLES OF LIGHT MEASURED 30-INCHES OFF FLOOR IS PROVIDED IN WALK-IN REFRIGERATED STORAGE AND DRY STORAGE ROOMS AND AT LEAST 20-FOOT CANDLES IS PROVIDED WHERE FOOD IS PROVIDED FOR CONSUMER SELF-SERVICE, WHERE FRESH PRODUCE OR PREPACKAGED FOODS ARE SOLD OR OFFERED FOR CONSUMPTION; INSIDE EQUIPMENT SUCH AS REACH-IN AND UNDER-COUNTER REFRIGERATORS; IN AREAS USED FOR HANDWASHING, WAREWASHING, EQUIPMENT AND UTENSIL STORAGE, AND IN TOILET ROOMS.
11. - A MINIMUM OF 50 FOOT-CANDLES OF LIGHT MEASURED 30-INCHES OFF FLOOR IS PROVIDED WHEN WORKING WITH FOOD OR WORKING WITH UTENSILS OR EQUIPMENT SUCH AS KNIVES, SLICERS, GRINDERS, OR SAWS WHERE EMPLOYEE SAFETY IS A FACTOR AND IN ALL AREAS DURING PERIODS OF CLEANING.
12. - SHATTERSHIELDS FOR ALL LIGHTS ABOVE FOOD PREPARATION, WORK, AND STORAGE WILL BE PROVIDED.
13. - ALL WAREWASHING SINKS TO HAVE THREE COMPARTMENTS THAT ARE A MINIMUM SIZE OF AT LEAST 18"x18"x12" DEEP (OR 18"x20"x12" DEEP) WITH A MINIMUM 18-INCH DRAINBOARD AT EACH END. IF AGAINST A WALL, IT MUST HAVE AN 8-INCH INTEGRAL BACKSPLASH. HOWEVER, IT MUST BE CAPABLE TO ACCOMMODATE THE LARGEST UTENSIL TO BE WASHED. A WAREWASHING MACHINE DOES NOT SUBSTITUTE FOR THE SINK REQUIREMENT.
14. - SINKS TO HAVE SPOUT(S) CAPABLE OF REACHING EACH COMPARTMENT.
15. - FOOD PREP SINK COMPARTMENT(S) TO BE AT LEAST 18"x18"x12" DEEP (OR 16"x20"x12" DEEP) WITH A MINIMUM 18-INCH DRAINBOARD. SEPARATE FOOD PREP SINKS TO BE PROVIDED FOR MEATS AND PRODUCE.
16. - THE THREE OR FOUR COMPARTMENT BAR SINK TO BE AT LEAST 12"x12"x10" DEEP (OR 10"x14"x10" DEEP) WITH A MINIMUM 18-INCH DRAINBOARD AT EACH END.
17. - A SEPARATE WET WASTE DUMP FIXTURE SHALL BE PROVIDED FOR DISPOSAL OF DRINK, WASTE ICE OR COFFEE WASTE.
18. - EACH HANDWASHING SINK MUST HAVE PERMANENTLY MOUNTED SINGLE-SERVICE SOAP & PAPER TOWEL DISPENSERS.
19. - THE HOT WATER HEATER WILL BE A COMMERCIAL TYPE CAPABLE OF CONSTANTLY SUPPLYING HOT WATER AT A TEMPERATURE OF 120F TO ALL SINKS. IN SIZING THE WATER HEATER, THE PEAK HOURLY DEMAND FOR ALL SINKS, ETC., ARE ADDED TOGETHER TO DETERMINE THE MINIMUM REQUIRED RECOVERY RATE.
20. - ALL LAVATORIES OR HAND SINKS WILL HAVE A COMBINATION FAUCET OR PREMIXING FAUCET CAPABLE OF SUPPLYING WATER TEMPERED TO 100F. SELF-CLOSING OR METERED FAUCET TO PROVIDE AT LEAST 15-SECONDS OF WATER WITHOUT REACTIVATION.
21. - ALL PLUMBING, ELECTRICAL AND GAS LINES SHALL BE CONCEALED WITHIN THE BUILDING STRUCTURE TO AS GREAT EXTENT AS POSSIBLE. ALL EXPOSED CONDUITS, PLUMBING, ETC. SHALL BE INSTALLED AT LEAST 6-INCHES OFF FLOOR AND 3/4" FROM WALLS USING STANDOFF BRACKETS.
22. - CONDUIT, PLUMBING OR PIPING CANNOT BE INSTALLED ACROSS THE AISLE WAY, TRAFFIC AREA OR DOOR OPENING.
23. - MULTIPLE RUNS OR CLUSTERS OF CONDUIT OR PIPELINES SHALL BE FURRED IN OR ENCASED IN AN APPROVED SEALED ENCLOSURE.
24. - ALL LIQUID WASTE SHALL BE DRAINED BY MEANS OF INDIRECT WASTE PIPES INTO A FLOOR SINK. FLOOR SINKS ARE TO BE INSTALLED FLUSH WITH THE FINISH FLOOR SURFACE AND HAVE SUITABLE EASILY REMOVABLE SAFETY COVER GRATES.
25. - FLOOR SINK TO BE 50% EXPOSED WHEN NO ACCESS IS PROVIDED FOR CLEANING OR BE IN LINE WITH THE FRONT FACE OF ELEVATED FREESTANDING EQUIPMENT.
26. - APPROVED BACKFLOW PREVENTION DEVICES SHALL BE PROPERLY INSTALLED UPSTREAM OF ANY POTENTIAL HAZARD BETWEEN THE POTABLE WATER SUPPLY AND THE SOURCE OF CONTAMINATION. HOSES SHALL NOT BE ATTACHED TO A FAUCET OR HOSE BIBB UNLESS AN APPROVED BACKFLOW PREVENTER IS PROVIDED.
27. - WATER SUPPLY TO CARBONATORS SHALL BE PROTECTED BY AN APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER. THE RELIEF VALVE SHALL DRAIN INDIRECTLY TO SEWER WITH A LEGAL AIR GAP.
28. - FOR CLEANING FLOOR MATS, THE JANITORIAL SINK TO BE A MINIMUM 24" BY 36" FLOOR-MOUNTED TYPE. MOPS SHALL BE PLACED IN A POSITION THAT ALLOWS THEM TO AIR-DRY WITHOUT SOILING WALLS, EQUIPMENT, OR SUPPLIES.
29. - THE JANITORIAL SINK FAUCET WILL HAVE A THREADED OUTER LIP FOR HOSE ATTACHMENT AND AN APPROVED BACKFLOW PREVENTION DEVICE. NO CHEMICAL DISPENSING SYSTEMS OR SHUT-OFF VALVES TO BE ATTACHED TO MOP SINK FAUCET OUTLET (UNLESS A "SIDEKICK" PLUMBING DEVICE IS INSTALLED).
30. - NO CONDENSATE OR WASTEWATER INCLUDING HVAC WILL DRAIN INTO THE JANITORIAL SINK.
31. - GREASE TRAP TO BE LOCATED OUTSIDE THE FOODSERVICE ACTIVITY AREA, FLUSH WITH THE FINISH FLOOR WHEN INDOORS. LOCAL WASTEWATER DISTRICT OR BUILDING DEPARTMENT TO BE CONTACTED FOR GREASE REMOVAL REQUIREMENTS.
32. - FLOOR DRAINS SHALL BE INSTALLED IN FLOORS THAT ARE WATER-FLUSHED FOR CLEANING AND IN AREAS WHERE PRESSURE SPRAY METHODS FOR CLEANING EQUIPMENT ARE USED, IN RESTROOMS, JANITORIAL ROOMS, SCULLERIES, AND AT BARS WITH WAREWASHING. FLOOR SURFACE IN AREAS PURSUANT TO THIS SHALL BE SLOPED 1:50 TO THE FLOOR DRAINS.
33. - ADEQUATE VENTILATION IS TO BE PROVIDED TO ALL TOILET ROOMS, JANITOR CLOSET WITH MOP SINKS, AND INDOOR TRASH ROOMS AND IN DRESSING/CHANGE ROOM(S).
34. - THE FLOOR FINISH WILL HAVE A SMOOTH SURFACE UNDER ALL EQUIPMENT AND THE WALKWAYS WILL HAVE A LIGHT TEXTURE ONLY.
35. - THE PAINT USED ON WALLS AND CEILINGS OF ALL KITCHEN, FOOD PREP, WORK, STORAGE AREAS WILL BE A GLOSS OR SEMI-GLOSS ENAMEL. FINISH MATERIAL SHALL BE A LIGHT COLOR IN FOOD PREP AREAS FOR EASY CLEANING.
36. - PRIOR TO INSTALLATION, SAMPLES OF FINISHES TO BE SUBMITTED TO ENVIRONMENTAL HEALTH FOR APPROVAL AS NEEDED.
37. - COLD STORAGE ROOMS SHALL BE PROVIDED WITH A SECTION OF SHELVING INSTALLED TO HOLD SHALLOW COOL DOWN PANS - NOT TO EXCEED 4-INCHES IN HEIGHT. SPACE BETWEEN SHELVING TO BE AT LEAST 8-INCHES HIGH.
38. - BACKUP DRY STORAGE SHELVING SHALL BE A MINIMUM OF 96 LINEAR FEET (MEASURED WITH TIERS) OR 25% OF KITCHEN, FOOD PREP, AND WORK AREAS, WHICHEVER IS GREATER. SHELVING SHALL BE AT LEAST 18-INCHES DEEP AND START A MINIMUM SIX-INCHES OFF THE FLOOR SURFACE.
39. - SHELVING OVER WET AREAS (SINKS, MOP SINKS, ETC.) AND FOOD SURFACES WILL BE METAL.
40. - ALL SEAMS, GAPS, OPENINGS TO BE PROPERLY SEALED.
PROJECT INFORMATION:
1. - PROJECT INFO: CALEXICO HIGH SCHOOL CULINARY ARTS CLASSROOM - 1030 ENGINAS AVE. CALEXICO, CA 92321
2. - NAME AND PHONE NUMBER OF THE ARCHITECT IS: SANDERS INC - (760) 353-5440
3. - TYPE OF THIS FOOD FACILITY IS: CLASSROOM
4. - NUMBER OF EMPLOYEES PER SHIFT (INCLUDING OWNERS & MANAGERS): 10-12
5. - THIS FOOD FACILITY IS SERVED BY THE MUNICIPAL WATER DISTRICT OF CITY OF CALEXICO
6. - THIS FOOD FACILITY IS SERVED BY THE MUNICIPAL SEWER DISTRICT OF CITY OF CALEXICO
7. - SQUARE FOOTAGE OF THIS FOOD FACILITY IS: APPROXIMATELY 3140 SQ. FT.

FOOD SERVICE SHEET LIST

Table listing food service equipment sheets: FS.00.0 FOOD SERVICE EQUIPMENT GENERAL NOTES, FS.01.0 FOOD SERVICE EQUIPMENT FLOOR PLAN, FS.02.0 FOOD SERVICE EQUIPMENT SCHEDULE, FS.03.0 FOOD SERVICE EQUIPMENT PLUMBING PLAN, FS.04.0 FOOD SERVICE EQUIPMENT ELECTRICAL PLAN, FS.05.0 FOOD SERVICE EQUIPMENT BUILDING WORK PLAN (), FS.06.0 FOOD SERVICE EQUIPMENT REFRIGERATION PLAN *, FS.06.1 FOOD SERVICE EQUIPMENT REFRIGERATION RACK DETAILS, FS.07.0 FOOD SERVICE EQUIPMENT ELEVATIONS, FS.07.1 FOOD SERVICE EQUIPMENT ELEVATIONS, FS.07.2 FOOD SERVICE EQUIPMENT ELEVATIONS, FS.07.A FOOD SERVICE EQUIPMENT 3D VIEWS, FS.07.B FOOD SERVICE EQUIPMENT 3D VIEWS, FS.08.0 FOOD SERVICE EQUIPMENT DETAILS, FS.08.1 FOOD SERVICE EQUIPMENT DETAILS, FS.09.0 FOOD SERVICE EQUIPMENT ATTACHMENT DETAILS, FS.09.1 FOOD SERVICE EQUIPMENT ATTACHMENT DETAILS, FS.10.0 FOOD SERVICE EQUIPMENT EXHAUST HOOD DETAILS ITEM 198, FS.10.1 FOOD SERVICE EQUIPMENT EXHAUST HOOD DETAILS ITEM 10, FS.10.2 FOOD SERVICE EQUIPMENT EXHAUST HOOD DETAILS ITEM 27, FS.10.3 FOOD SERVICE EQUIPMENT EXHAUST HOOD DETAILS ITEM 73, FS.10.4 FOOD SERVICE EQUIPMENT EXHAUST HOOD DETAILS ITEM 91, FS.10.5 FOOD SERVICE EQUIPMENT EXHAUST HOOD DETAILS ITEM 109, FS.10.6 FOOD SERVICE EQUIPMENT EXHAUST HOOD DETAILS ITEM 155, FS.10.7 FOOD SERVICE EQUIPMENT DCV HOOD DETAILS

(* NOTE: THE FOLLOWING INFORMATION CAN BE FOUND ON THE BUILDING WORK PLAN: FLOOR DEPRESSIONS, LEVEL FLOORS; GALV. CURBS; WALL BACKING; HOOD OUTLINES, EXHAUST & MUA DUCTS; WALL & CEILING PENETRATIONS; WALL & WINDOW OPENINGS; FRP & S/S WALL FINISHES

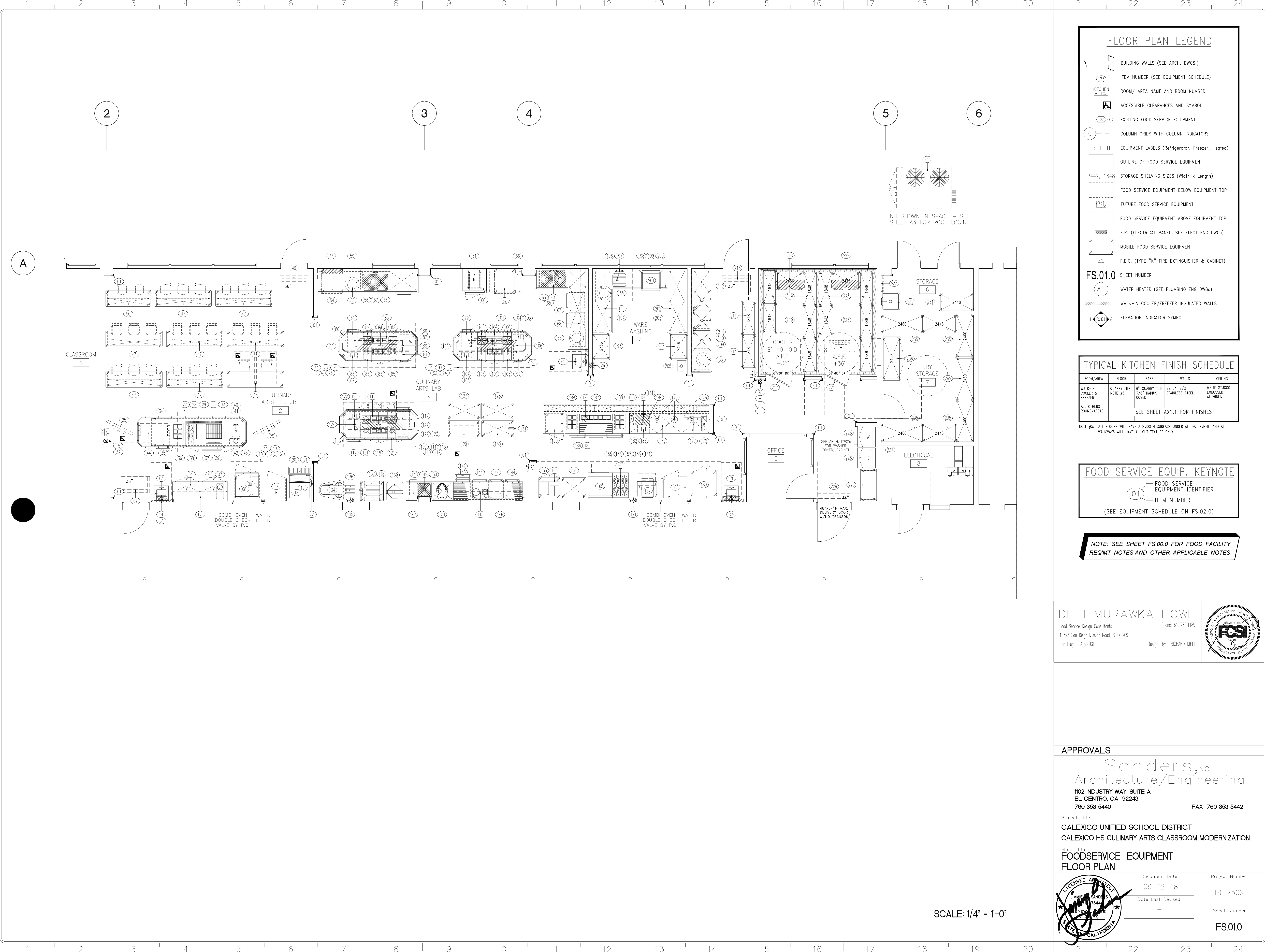
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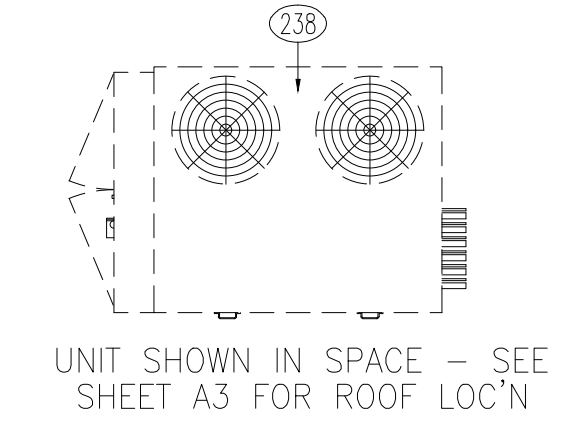
Project Title
CALEXICO UNIFIED SCHOOL DISTRICT
CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION
Sheet Title
FOODSERVICE EQUIPMENT
GENERAL NOTES

Table with project metadata: Document Date (09-12-18), Project Number (18-250X), Date Last Revised (-), Sheet Number (FS.00.0)



FLOOR PLAN LEGEND

- BUILDING WALLS (SEE ARCH. DWGS.)
- ITEM NUMBER (SEE EQUIPMENT SCHEDULE)
- ROOM/ AREA NAME AND ROOM NUMBER
- ACCESSIBLE CLEARANCES AND SYMBOL
- EXISTING FOOD SERVICE EQUIPMENT
- COLUMN GRIDS WITH COLUMN INDICATORS
- EQUIPMENT LABELS (Refrigerator, Freezer, Heated)
- OUTLINE OF FOOD SERVICE EQUIPMENT
- STORAGE SHELVING SIZES (Width x Length)
- FOOD SERVICE EQUIPMENT BELOW EQUIPMENT TOP
- FUTURE FOOD SERVICE EQUIPMENT
- FOOD SERVICE EQUIPMENT ABOVE EQUIPMENT TOP
- E.P. (ELECTRICAL PANEL, SEE ELECT ENG DWGS)
- MOBILE FOOD SERVICE EQUIPMENT
- F.E.C. (TYPE "K" FIRE EXTINGUISHER & CABINET)
- FS.01.0** SHEET NUMBER
- W.H. WATER HEATER (SEE PLUMBING ENG DWGS)
- WALK-IN COOLER/FREEZER INSULATED WALLS
- ELEVATION INDICATOR SYMBOL



TYPICAL KITCHEN FINISH SCHEDULE

ROOM/AREA	FLOOR	BASE	WALLS	CEILING
WALK-IN COOLER & FREEZER	QUARRY TILE NOTE #5	5" QUARRY TILE 5/8" RADIUS COVERED	22 GA. S/S STAINLESS STEEL	WHITE STUCCO EMBOSSED ALUMINUM
ALL OTHERS ROOMS/AREAS	SEE SHEET AX1.1 FOR FINISHES			

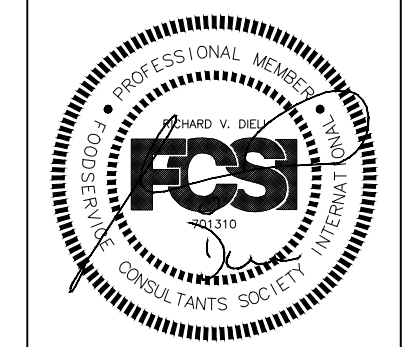
NOTE #5: ALL FLOORS WILL HAVE A SMOOTH SURFACE UNDER ALL EQUIPMENT, AND ALL WALKWAYS WILL HAVE A LIGHT TEXTURE ONLY

FOOD SERVICE EQUIP. KEYNOTE

FOOD SERVICE EQUIPMENT IDENTIFIER
ITEM NUMBER
(SEE EQUIPMENT SCHEDULE ON FS.02.0)

NOTE: SEE SHEET FS.00.0 FOR FOOD FACILITY REQ'MT NOTES AND OTHER APPLICABLE NOTES

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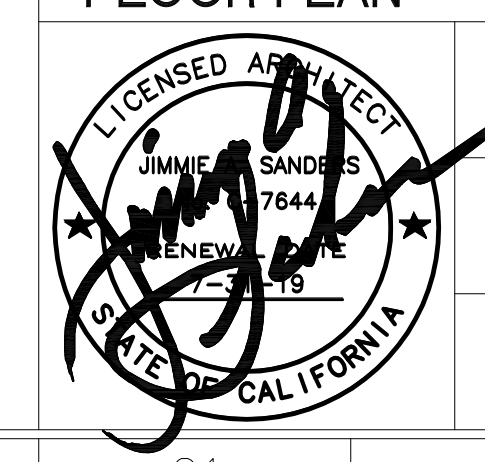
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Project Title
**CALEXICO UNIFIED SCHOOL DISTRICT
 CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
**FOODSERVICE EQUIPMENT
 FLOOR PLAN**

Document Date 09-12-18	Project Number 18-25CX
Date Last Revised -	Sheet Number FS.01.0



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

NOTE: SEE SHEET FS.09.0, FS.09.1 FOR ATTACHMENT DET.

CALEXICO HIGH SCHOOL EQUIPMENT SCHEDULE AND MECHANICAL REQUIREMENTS

NOTE: SEE SHEET FS.09.0 FOR ABBREVIATIONS LIST

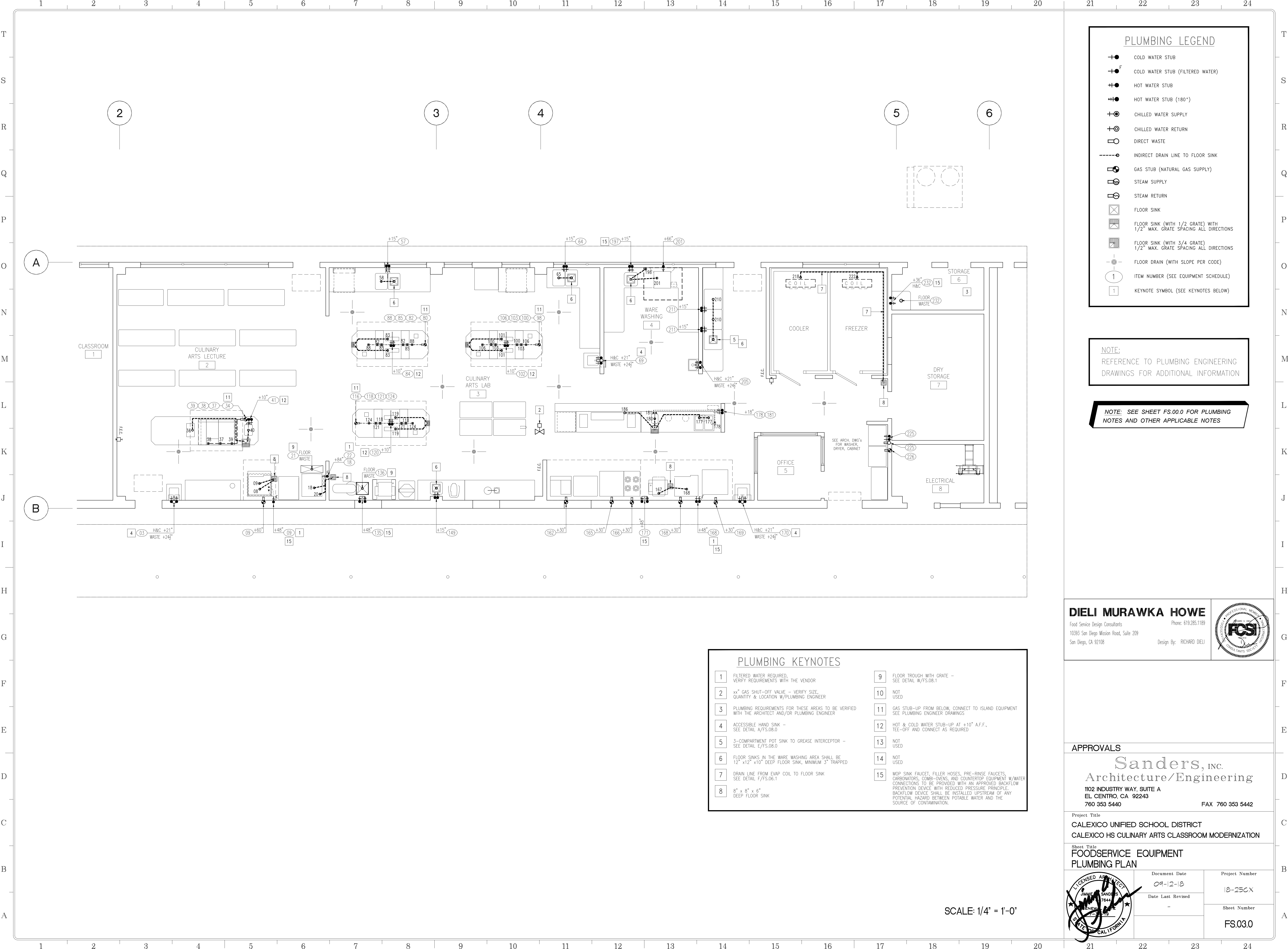
Table with columns: ITEM, EQUIPMENT, REMARKS, QTY, ATTACH DETAIL, EQUIP. HEIGHT, VOLTS, PHASE, CONN., ELECTRICAL REMARKS, HOT WATER, PLUMBING/MECHANICAL, PLUMBING REMARKS. Contains items 1-120.

Table with columns: ITEM, EQUIPMENT, REMARKS, QTY, ATTACH DETAIL, EQUIP. HEIGHT, VOLTS, PHASE, CONN., ELECTRICAL REMARKS, HOT WATER, PLUMBING/MECHANICAL, PLUMBING REMARKS. Contains items 121-240.

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PLUMBING LEGEND	
	COLD WATER STUB
	COLD WATER STUB (FILTERED WATER)
	HOT WATER STUB
	HOT WATER STUB (180°)
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	DIRECT WASTE
	INDIRECT DRAIN LINE TO FLOOR SINK
	GAS STUB (NATURAL GAS SUPPLY)
	STEAM SUPPLY
	STEAM RETURN
	FLOOR SINK
	FLOOR SINK (WITH 1/2" GRATE) WITH 1/2" MAX. GRATE SPACING ALL DIRECTIONS
	FLOOR SINK (WITH 3/4" GRATE) 1/2" MAX. GRATE SPACING ALL DIRECTIONS
	FLOOR DRAIN (WITH SLOPE PER CODE)
	ITEM NUMBER (SEE EQUIPMENT SCHEDULE)
	KEYNOTE SYMBOL (SEE KEYNOTES BELOW)

NOTE:
REFERENCE TO PLUMBING ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION

NOTE: SEE SHEET FS.00.0 FOR PLUMBING NOTES AND OTHER APPLICABLE NOTES

PLUMBING KEYNOTES	
1	FILTERED WATER REQUIRED. VERIFY REQUIREMENTS WITH THE VENDOR
2	xx" GAS SHUT-OFF VALVE - VERIFY SIZE, QUANTITY & LOCATION W/PLUMBING ENGINEER
3	PLUMBING REQUIREMENTS FOR THESE AREAS TO BE VERIFIED WITH THE ARCHITECT AND/OR PLUMBING ENGINEER
4	ACCESSIBLE HAND SINK - SEE DETAIL A/FS.08.0
5	3-COMPARTMENT POT SINK TO GREASE INTERCEPTOR - SEE DETAIL E/FS.08.0
6	FLOOR SINKS IN THE WARE WASHING AREA SHALL BE 12" x 12" x 10" DEEP FLOOR SINK, MINIMUM 3" TRAPPED
7	DRAIN LINE FROM EVAP COIL TO FLOOR SINK SEE DETAIL F/FS.06.1
8	8" x 8" x 6" DEEP FLOOR SINK
9	FLOOR TROUGH WITH GRATE - SEE DETAIL W/FS.08.1
10	NOT USED
11	GAS STUB-UP FROM BELOW, CONNECT TO ISLAND EQUIPMENT SEE PLUMBING ENGINEER DRAWINGS
12	HOT & COLD WATER STUB-UP AT +10" A.F.F., TEE-OFF AND CONNECT AS REQUIRED
13	NOT USED
14	NOT USED
15	MOP SINK FAUCET, FILLER HOSES, PRE-RINSE FAUCETS, CARBONATORS, COMBI-OVENS, AND COUNTERTOP EQUIPMENT W/WATER CONNECTIONS TO BE PROVIDED WITH AN APPROVED BACKFLOW PREVENTION DEVICE WITH REDUCED PRESSURE PRINCIPLE. BACKFLOW DEVICE SHALL BE INSTALLED UPSTREAM OF ANY POTENTIAL HAZARD BETWEEN POTABLE WATER AND THE SOURCE OF CONTAMINATION.

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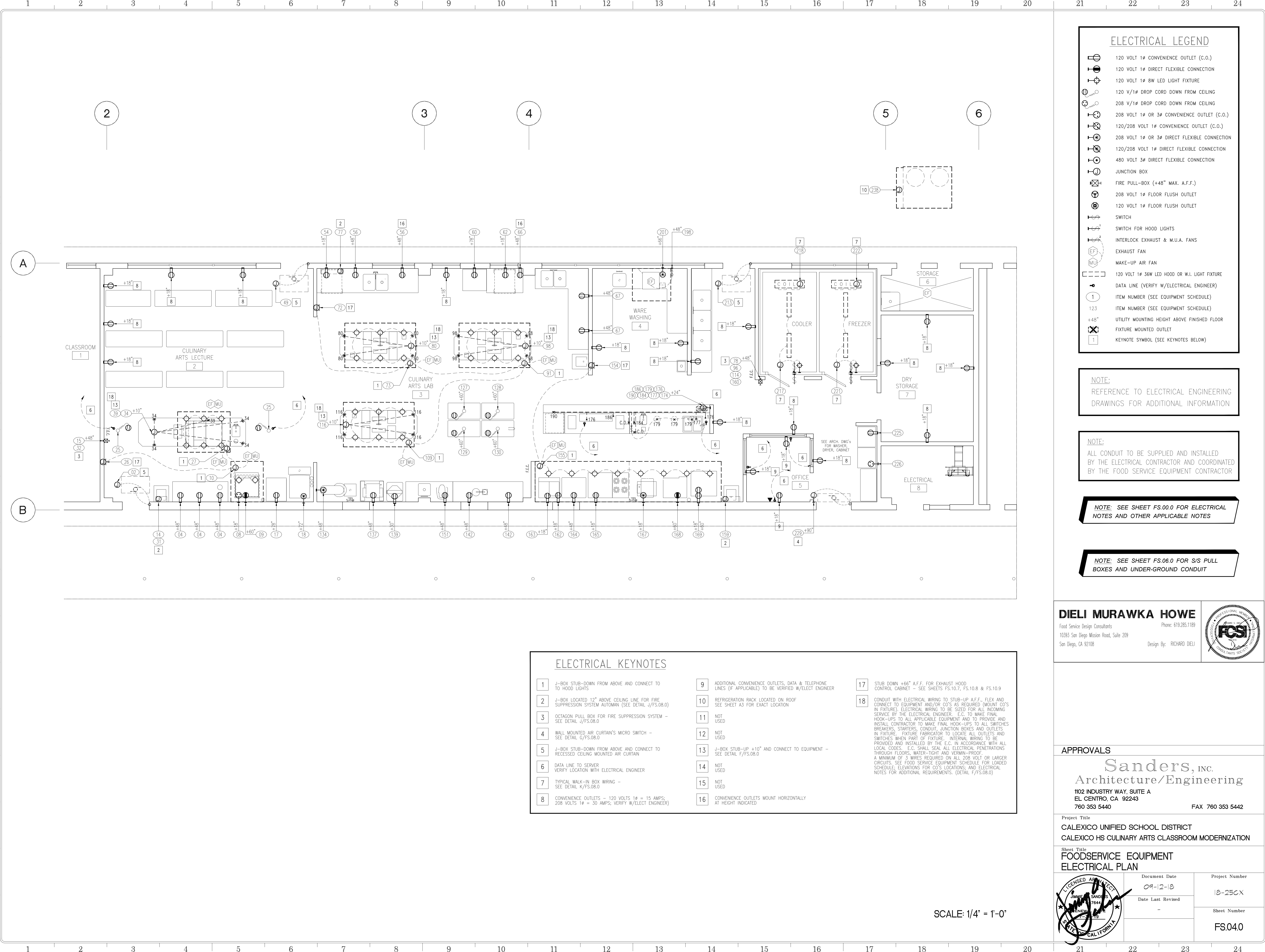
Project Title
**CALEXICO UNIFIED SCHOOL DISTRICT
CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
**FOODSERVICE EQUIPMENT
PLUMBING PLAN**

Document Date 09-12-18	Project Number 18-25CX
Date Last Revised -	Sheet Number FS.03.0



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



ELECTRICAL LEGEND	
	120 VOLT 1Ø CONVENIENCE OUTLET (C.O.)
	120 VOLT 1Ø DIRECT FLEXIBLE CONNECTION
	120 VOLT 1Ø 8W LED LIGHT FIXTURE
	120 V/1Ø DROP CORD DOWN FROM CEILING
	208 V/1Ø DROP CORD DOWN FROM CEILING
	208 VOLT 1Ø OR 3Ø CONVENIENCE OUTLET (C.O.)
	120/208 VOLT 1Ø CONVENIENCE OUTLET (C.O.)
	208 VOLT 1Ø OR 3Ø DIRECT FLEXIBLE CONNECTION
	120/208 VOLT 1Ø DIRECT FLEXIBLE CONNECTION
	480 VOLT 3Ø DIRECT FLEXIBLE CONNECTION
	JUNCTION BOX
	FIRE PULL-BOX (+48" MAX. A.F.F.)
	208 VOLT 1Ø FLOOR FLUSH OUTLET
	120 VOLT 1Ø FLOOR FLUSH OUTLET
	SWITCH
	SWITCH FOR HOOD LIGHTS
	INTERLOCK EXHAUST & M.U.A. FANS
	EXHAUST FAN
	MAKE-UP AIR FAN
	120 VOLT 1Ø 36W LED HOOD OR W.I. LIGHT FIXTURE
	DATA LINE (VERIFY W/ELECTRICAL ENGINEER)
	ITEM NUMBER (SEE EQUIPMENT SCHEDULE)
	ITEM NUMBER (SEE EQUIPMENT SCHEDULE)
	UTILITY MOUNTING HEIGHT ABOVE FINISHED FLOOR
	FIXTURE MOUNTED OUTLET
	KEYNOTE SYMBOL (SEE KEYNOTES BELOW)

NOTE:
REFERENCE TO ELECTRICAL ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION

NOTE:
ALL CONDUIT TO BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AND COORDINATED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR

NOTE: SEE SHEET FS.00.0 FOR ELECTRICAL NOTES AND OTHER APPLICABLE NOTES

NOTE: SEE SHEET FS.06.0 FOR S/S PULL BOXES AND UNDER-GROUND CONDUIT

ELECTRICAL KEYNOTES					
1	J-BOX STUB-DOWN FROM ABOVE AND CONNECT TO HOOD LIGHTS	9	ADDITIONAL CONVENIENCE OUTLETS, DATA & TELEPHONE LINES (IF APPLICABLE) TO BE VERIFIED W/ELECT ENGINEER	17	STUB DOWN +66" A.F.F. FOR EXHAUST HOOD CONTROL CABINET - SEE SHEETS FS.10.7, FS.10.8 & FS.10.9
2	J-BOX LOCATED 12" ABOVE CEILING LINE FOR FIRE SUPPRESSION SYSTEM AUTOMAN (SEE DETAIL J/FS.08.0)	10	REFRIGERATION RACK LOCATED ON ROOF SEE SHEET A3 FOR EXACT LOCATION	18	CONDUIT WITH ELECTRICAL WIRING TO STUB-UP A.F.F., FLEX AND CONNECT TO EQUIPMENT AND/OR CO'S AS REQUIRED (MOUNT CO'S IN FIXTURE). ELECTRICAL WIRING TO BE SIZED FOR ALL INCOMING SERVICE BY THE ELECTRICAL ENGINEER. E.C. TO MAKE FINAL HOOK-UPS TO ALL APPLICABLE EQUIPMENT AND TO PROVIDE AND INSTALL CONTRACTOR TO MAKE FINAL HOOK-UPS TO ALL SWITCHES BREAKERS, STARTERS, CONDUIT, JUNCTION BOXES AND OUTLETS IN FIXTURE. FIXTURE FABRICATOR TO LOCATE ALL OUTLETS AND SWITCHES WHEN PART OF FIXTURE. INTERNAL WIRING TO BE PROVIDED AND INSTALLED BY THE E.C. IN ACCORDANCE WITH ALL LOCAL CODES. E.C. SHALL SEAL ALL ELECTRICAL PENETRATIONS THROUGH FLOORS, WATER-TIGHT AND VERMIN-PROOF. A MINIMUM OF 3 WIRES REQUIRED ON ALL 208 VOLT OR LARGER CIRCUITS. SEE FOOD SERVICE EQUIPMENT SCHEDULE FOR LOADED SCHEDULE, ELEVATIONS FOR CO'S LOCATIONS, AND ELECTRICAL NOTES FOR ADDITIONAL REQUIREMENTS. (DETAIL F/FS.08.0)
3	OCTAGON PULL BOX FOR FIRE SUPPRESSION SYSTEM - SEE DETAIL J/FS.08.0	11	NOT USED		
4	WALL MOUNTED AIR CURTAIN'S MICRO SWITCH - SEE DETAIL G/FS.08.0	12	NOT USED		
5	J-BOX STUB-DOWN FROM ABOVE AND CONNECT TO RECESSED CEILING MOUNTED AIR CURTAIN	13	J-BOX STUB-UP +10" AND CONNECT TO EQUIPMENT - SEE DETAIL F/FS.08.0		
6	DATA LINE TO SERVER VERIFY LOCATION WITH ELECTRICAL ENGINEER	14	NOT USED		
7	TYPICAL WALK-IN BOX WIRING - SEE DETAIL K/FS.08.0	15	NOT USED		
8	CONVENIENCE OUTLETS - 120 VOLTS 1Ø = 15 AMPS; 208 VOLTS 1Ø = 30 AMPS, VERIFY W/ELECT ENGINEER	16	CONVENIENCE OUTLETS MOUNT HORIZONTALLY AT HEIGHT INDICATED		

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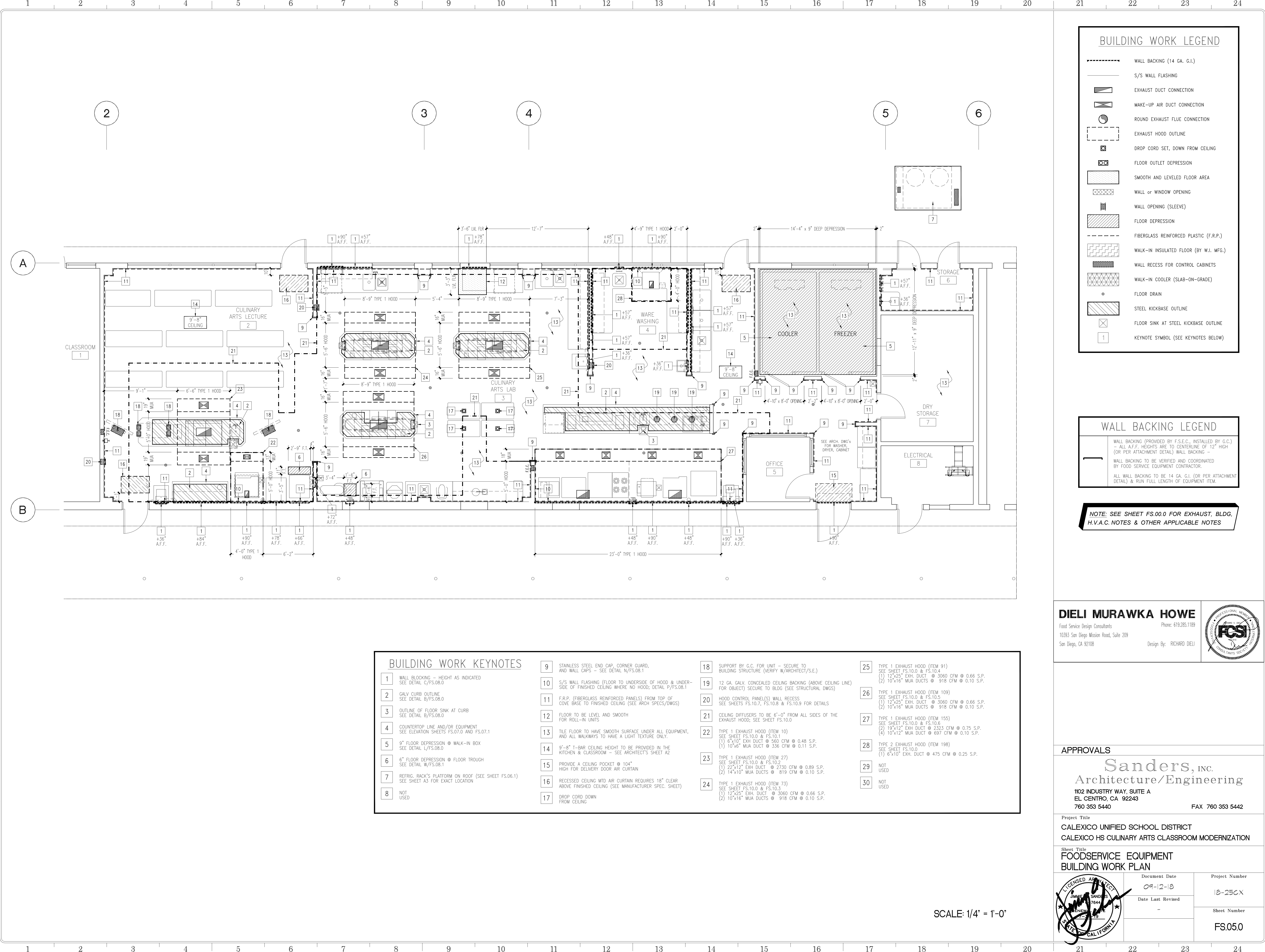
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Project Title
**CALEXICO UNIFIED SCHOOL DISTRICT
CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
**FOODSERVICE EQUIPMENT
ELECTRICAL PLAN**

	Document Date 09-12-18	Project Number 18-25CX
	Date Last Revised -	Sheet Number FS.04.0

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



BUILDING WORK LEGEND

- WALL BACKING (14 GA. G.I.)
- S/S WALL FLASHING
- EXHAUST DUCT CONNECTION
- MAKE-UP AIR DUCT CONNECTION
- ROUND EXHAUST FLUE CONNECTION
- EXHAUST HOOD OUTLINE
- DROP CORD SET, DOWN FROM CEILING
- FLOOR OUTLET DEPRESSION
- SMOOTH AND LEVELED FLOOR AREA
- WALL or WINDOW OPENING
- WALL OPENING (SLEEVE)
- FLOOR DEPRESSION
- FIBERGLASS REINFORCED PLASTIC (F.R.P.)
- WALK-IN INSULATED FLOOR (BY W.I. MFG.)
- WALL RECESS FOR CONTROL CABINETS
- WALK-IN COOLER (SLAB-ON-GRADE)
- FLOOR DRAIN
- STEEL KICKBASE OUTLINE
- FLOOR SINK AT STEEL KICKBASE OUTLINE
- KEYNOTE SYMBOL (SEE KEYNOTES BELOW)

WALL BACKING LEGEND

WALL BACKING (PROVIDED BY F.S.E.C., INSTALLED BY G.C.)
 - ALL A.F.F. HEIGHTS ARE TO CENTERLINE OF 12" HIGH (OR PER ATTACHMENT DETAIL) WALL BACKING -
 WALL BACKING TO BE VERIFIED AND COORDINATED BY FOOD SERVICE EQUIPMENT CONTRACTOR.
 ALL WALL BACKING TO BE 14 GA. G.I. (OR PER ATTACHMENT DETAIL) & RUN FULL LENGTH OF EQUIPMENT ITEM.

NOTE: SEE SHEET FS.00.0 FOR EXHAUST, BLDG, H.V.A.C. NOTES & OTHER APPLICABLE NOTES

BUILDING WORK KEYNOTES

<p>1 WALL BACKING - HEIGHT AS INDICATED SEE DETAIL C/FS.08.0</p> <p>2 GALV CURB OUTLINE SEE DETAIL B/FS.08.0</p> <p>3 OUTLINE OF FLOOR SINK AT CURB SEE DETAIL B/FS.08.0</p> <p>4 COUNTERTOP LINE AND/OR EQUIPMENT SEE ELEVATION SHEETS FS.07.0 AND FS.07.1</p> <p>5 9" FLOOR DEPRESSION @ WALK-IN BOX SEE DETAIL L/FS.08.0</p> <p>6 6" FLOOR DEPRESSION @ FLOOR TROUGH SEE DETAIL W/FS.08.1</p> <p>7 REFRIG. RACK'S PLATFORM ON ROOF (SEE SHEET FS.06.1) SEE SHEET A3 FOR EXACT LOCATION</p> <p>8 NOT USED</p>	<p>9 STAINLESS STEEL END CAP, CORNER GUARD, AND WALL CAPS - SEE DETAIL N/FS.08.1</p> <p>10 S/S WALL FLASHING (FLOOR TO UNDERSIDE OF HOOD & UNDERSIDE OF FINISHED CEILING WHERE NO HOOD; DETAIL P/FS.08.1)</p> <p>11 F.R.P. (FIBERGLASS REINFORCED PANELS) FROM TOP OF COVE BASE TO FINISHED CEILING (SEE ARCH. SPECS/DWGS)</p> <p>12 FLOOR TO BE LEVEL AND SMOOTH FOR ROLL-IN UNITS</p> <p>13 TILE FLOOR TO HAVE SMOOTH SURFACE UNDER ALL EQUIPMENT, AND ALL WALKWAYS TO HAVE A LIGHT TEXTURE ONLY.</p> <p>14 9'-8" T-BAR CEILING HEIGHT TO BE PROVIDED IN THE KITCHEN & CLASSROOM - SEE ARCHITECT'S SHEET A2</p> <p>15 PROVIDE A CEILING POCKET @ 14" HIGH FOR DELIVERY DOOR AIR CURTAIN</p> <p>16 RECESSED CEILING MTD AIR CURTAIN REQUIRES 18" CLEAR ABOVE FINISHED CEILING (SEE MANUFACTURER SPEC. SHEET)</p> <p>17 DROP CORD DOWN FROM CEILING</p>	<p>18 SUPPORT BY G.C. FOR UNIT - SECURE TO BUILDING STRUCTURE (VERIFY W/ARCHITECT/S.E.)</p> <p>19 12 GA. GALV. CONCEALED CEILING BACKING (ABOVE CEILING LINE) FOR OBJECT) SECURE TO BLDG (SEE STRUCTURAL DWGS)</p> <p>20 HOOD CONTROL PANEL(S) WALL RECESS SEE SHEETS FS.10.7, FS.10.8 & FS.10.9 FOR DETAILS</p> <p>21 CEILING DIFFUSERS TO BE 6"-0" FROM ALL SIDES OF THE EXHAUST HOOD; SEE SHEET FS.10.0</p> <p>22 TYPE 1 EXHAUST HOOD (ITEM 10) SEE SHEET FS.10.0 & FS.10.1 (1) 6"x10" EXH DUCT @ 560 CFM @ 0.48 S.P. (2) 10"x6" MUA DUCT @ 336 CFM @ 0.11 S.P.</p> <p>23 TYPE 1 EXHAUST HOOD (ITEM 27) SEE SHEET FS.10.0 & FS.10.2 (1) 22"x12" EXH DUCT @ 2730 CFM @ 0.89 S.P. (2) 14"x10" MUA DUCTS @ 819 CFM @ 0.10 S.P.</p> <p>24 TYPE 1 EXHAUST HOOD (ITEM 73) SEE SHEET FS.10.0 & FS.10.3 (1) 12"x25" EXH DUCT @ 3060 CFM @ 0.66 S.P. (2) 10"x16" MUA DUCTS @ 918 CFM @ 0.10 S.P.</p>	<p>25 TYPE 1 EXHAUST HOOD (ITEM 91) SEE SHEET FS.10.0 & FS.10.4 (1) 12"x25" EXH DUCT @ 3060 CFM @ 0.66 S.P. (2) 10"x16" MUA DUCTS @ 918 CFM @ 0.10 S.P.</p> <p>26 TYPE 1 EXHAUST HOOD (ITEM 109) SEE SHEET FS.10.0 & FS.10.5 (1) 12"x25" EXH DUCT @ 3060 CFM @ 0.66 S.P. (2) 10"x16" MUA DUCTS @ 918 CFM @ 0.10 S.P.</p> <p>27 TYPE 1 EXHAUST HOOD (ITEM 155) SEE SHEET FS.10.0 & FS.10.6 (2) 19"x12" EXH DUCT @ 2323 CFM @ 0.75 S.P. (4) 10"x12" MUA DUCT @ 697 CFM @ 0.10 S.P.</p> <p>28 TYPE 2 EXHAUST HOOD (ITEM 198) SEE SHEET FS.10.0 (1) 6"x10" EXH. DUCT @ 475 CFM @ 0.25 S.P.</p> <p>29 NOT USED</p> <p>30 NOT USED</p>
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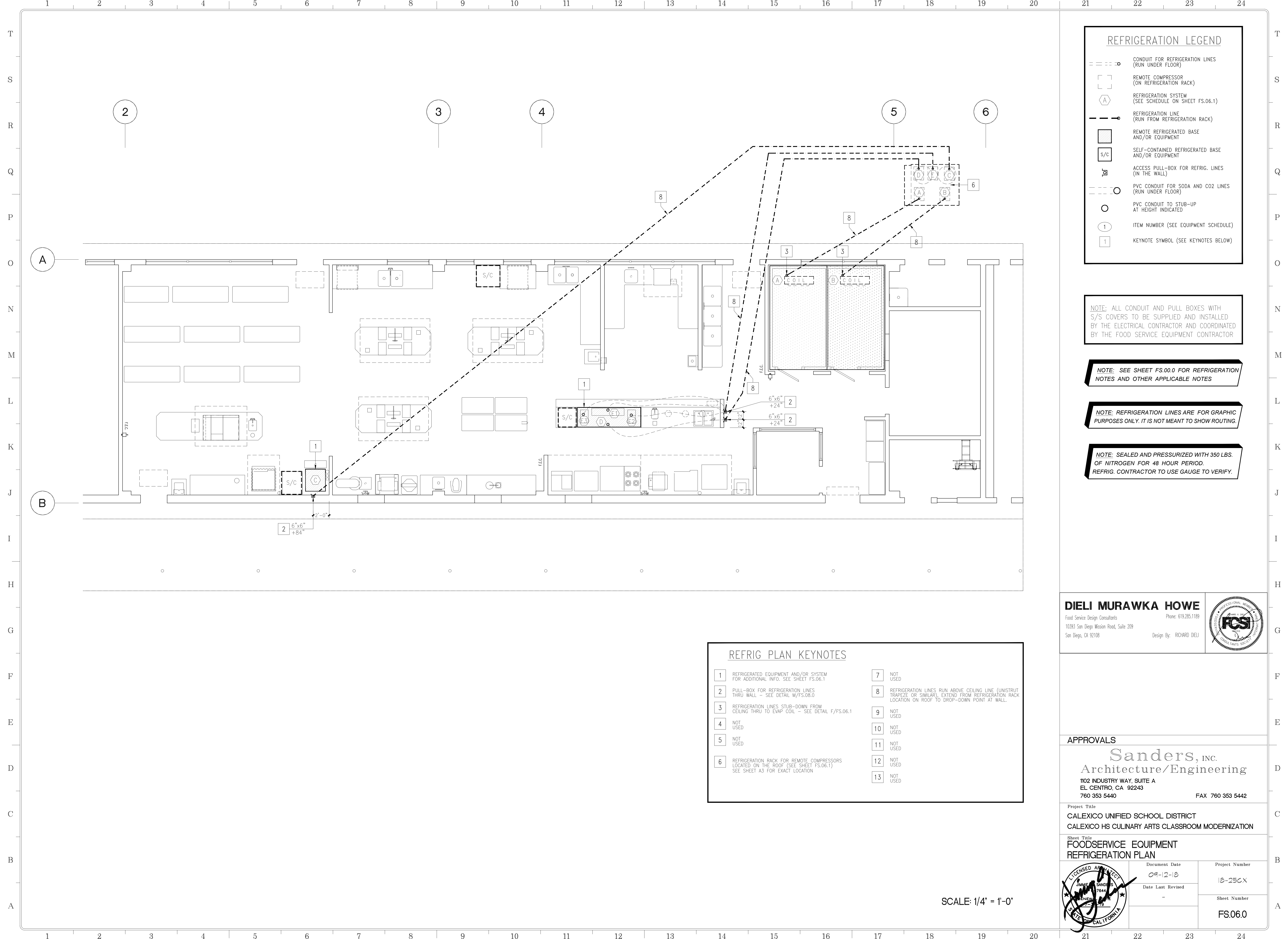


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Project Title CALEXICO UNIFIED SCHOOL DISTRICT CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION		
Sheet Title FOODSERVICE EQUIPMENT BUILDING WORK PLAN		
Document Date 09-12-18	Project Number 18-25CX	
Date Last Revised -	Sheet Number FS.05.0	

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



REFRIGERATION LEGEND

- CONDUIT FOR REFRIGERATION LINES (RUN UNDER FLOOR)
- REMOTE COMPRESSOR (ON REFRIGERATION RACK)
- A REFRIGERATION SYSTEM (SEE SCHEDULE ON SHEET FS.06.1)
- REFRIGERATION LINE (RUN FROM REFRIGERATION RACK)
- REMOTE REFRIGERATED BASE AND/OR EQUIPMENT
- SELF-CONTAINED REFRIGERATED BASE AND/OR EQUIPMENT
- ACCESS PULL-BOX FOR REFRIG. LINES (IN THE WALL)
- PVC CONDUIT FOR SODA AND CO2 LINES (RUN UNDER FLOOR)
- PVC CONDUIT TO STUB-UP AT HEIGHT INDICATED
- 1 ITEM NUMBER (SEE EQUIPMENT SCHEDULE)
- KEYNOTE SYMBOL (SEE KEYNOTES BELOW)

NOTE: ALL CONDUIT AND PULL BOXES WITH S/S COVERS TO BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AND COORDINATED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR

NOTE: SEE SHEET FS.00.0 FOR REFRIGERATION NOTES AND OTHER APPLICABLE NOTES

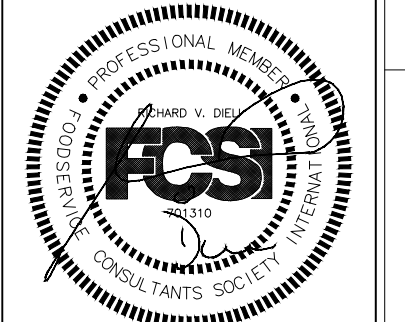
NOTE: REFRIGERATION LINES ARE FOR GRAPHIC PURPOSES ONLY. IT IS NOT MEANT TO SHOW ROUTING.

NOTE: SEALED AND PRESSURIZED WITH 350 LBS. OF NITROGEN FOR 48 HOUR PERIOD. REFRIG. CONTRACTOR TO USE GAUGE TO VERIFY.

REFRIG PLAN KEYNOTES

<p>1 REFRIGERATED EQUIPMENT AND/OR SYSTEM FOR ADDITIONAL INFO. SEE SHEET FS.06.1</p> <p>2 PULL-BOX FOR REFRIGERATION LINES THRU WALL - SEE DETAIL M/FS.08.0</p> <p>3 REFRIGERATION LINES STUB-DOWN FROM CEILING THRU TO EVAP COIL - SEE DETAIL F/FS.06.1</p> <p>4 NOT USED</p> <p>5 NOT USED</p> <p>6 REFRIGERATION RACK FOR REMOTE COMPRESSORS LOCATED ON THE ROOF (SEE SHEET FS.06.1) SEE SHEET A3 FOR EXACT LOCATION</p>	<p>7 NOT USED</p> <p>8 REFRIGERATION LINES RUN ABOVE CEILING LINE (UNISTRUT TRAPEZOID OR SIMILAR), EXTEND FROM REFRIGERATION RACK LOCATION ON ROOF TO DROP-DOWN POINT AT WALL.</p> <p>9 NOT USED</p> <p>10 NOT USED</p> <p>11 NOT USED</p> <p>12 NOT USED</p> <p>13 NOT USED</p>
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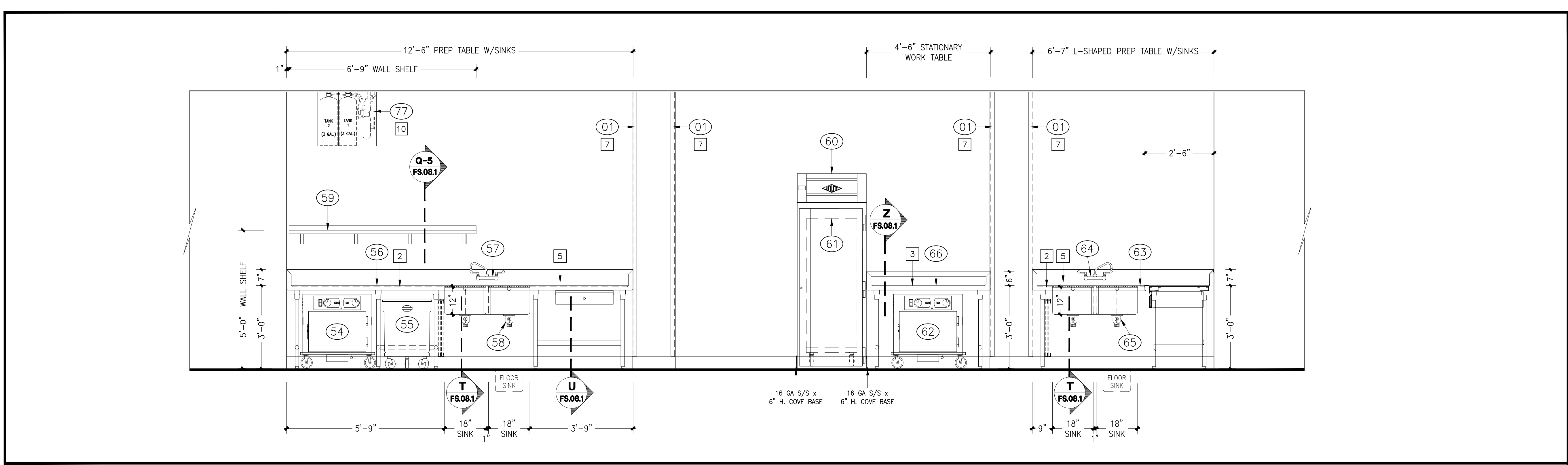
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 CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
**FOODSERVICE EQUIPMENT
 REFRIGERATION PLAN**

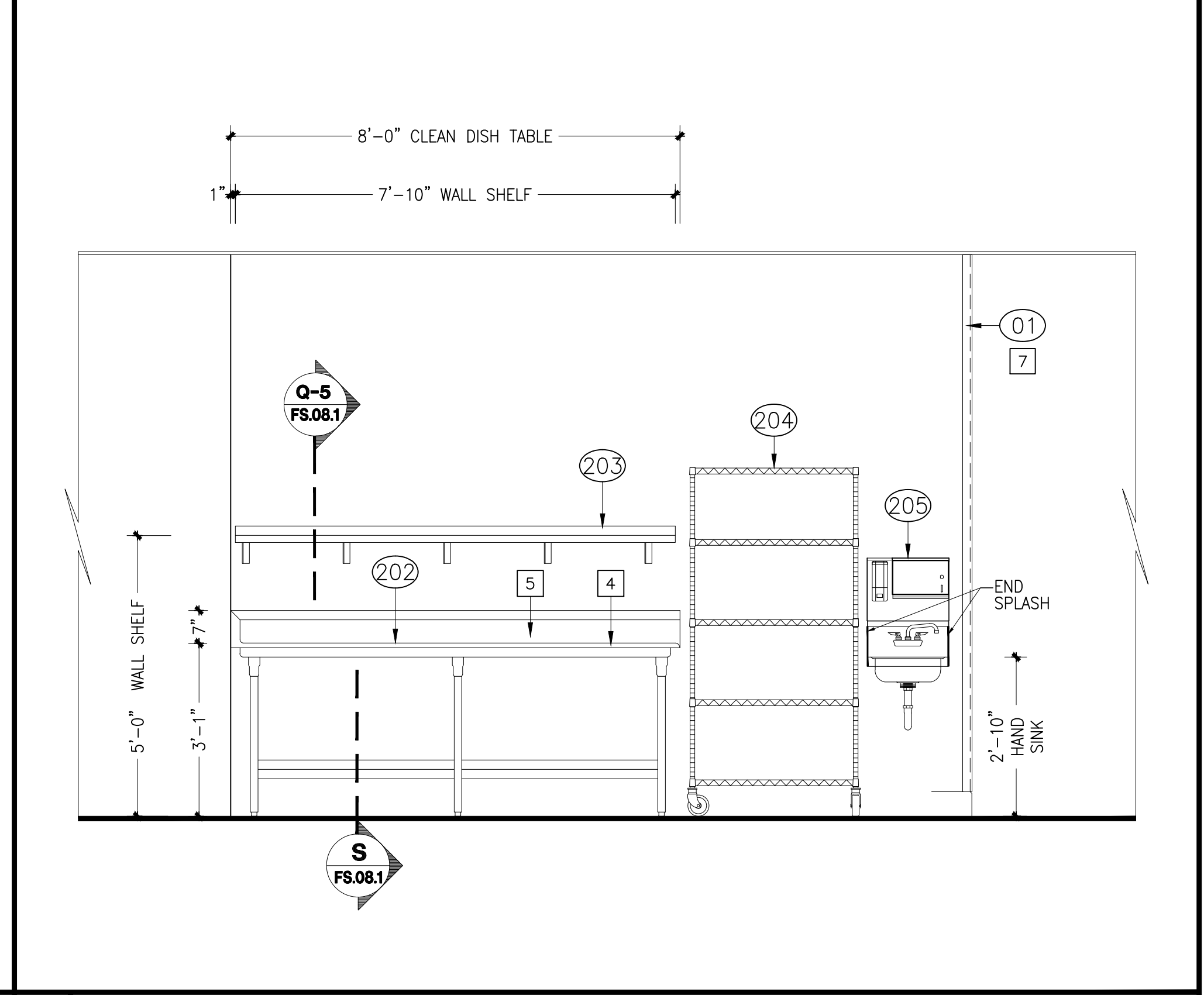
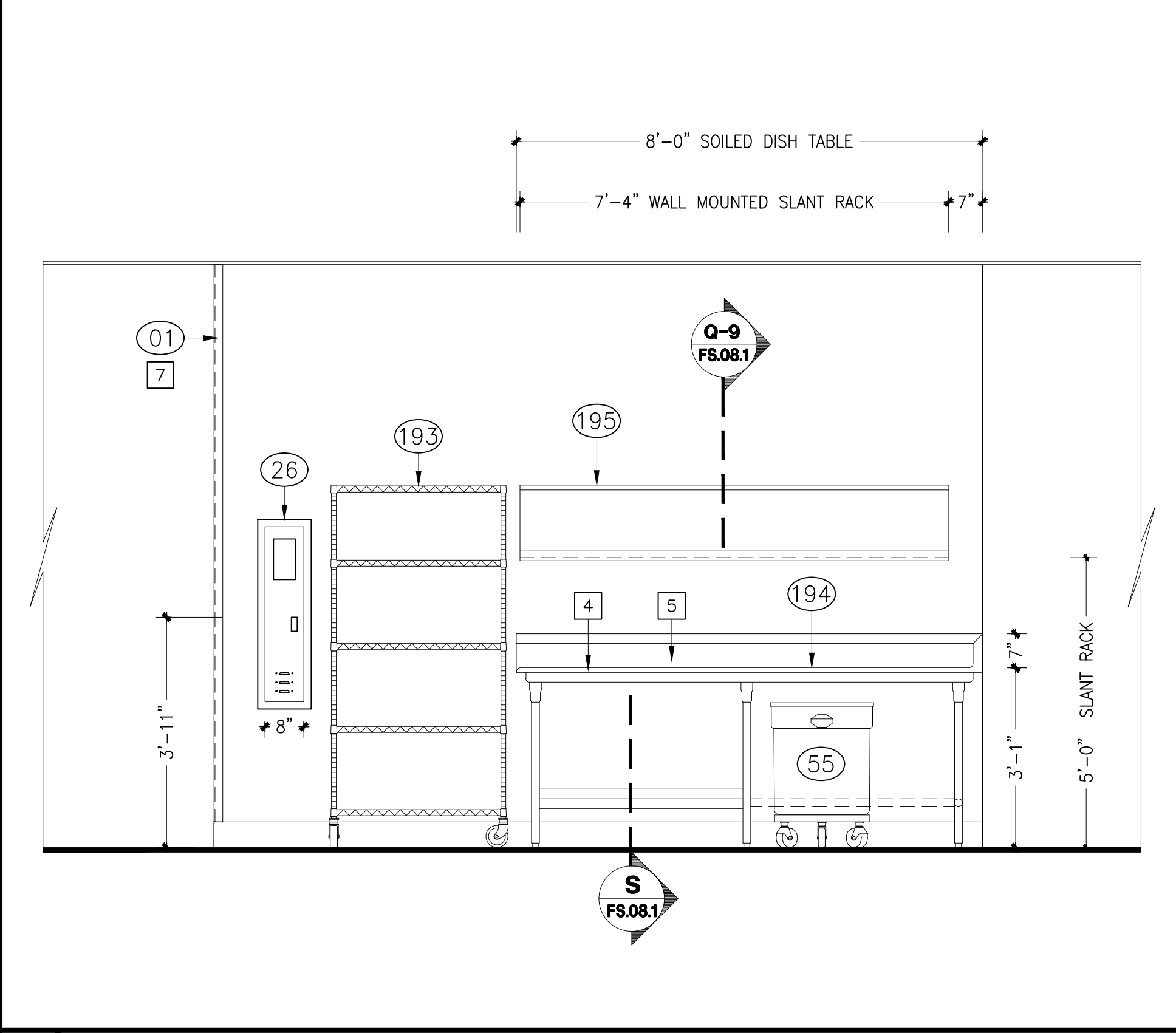
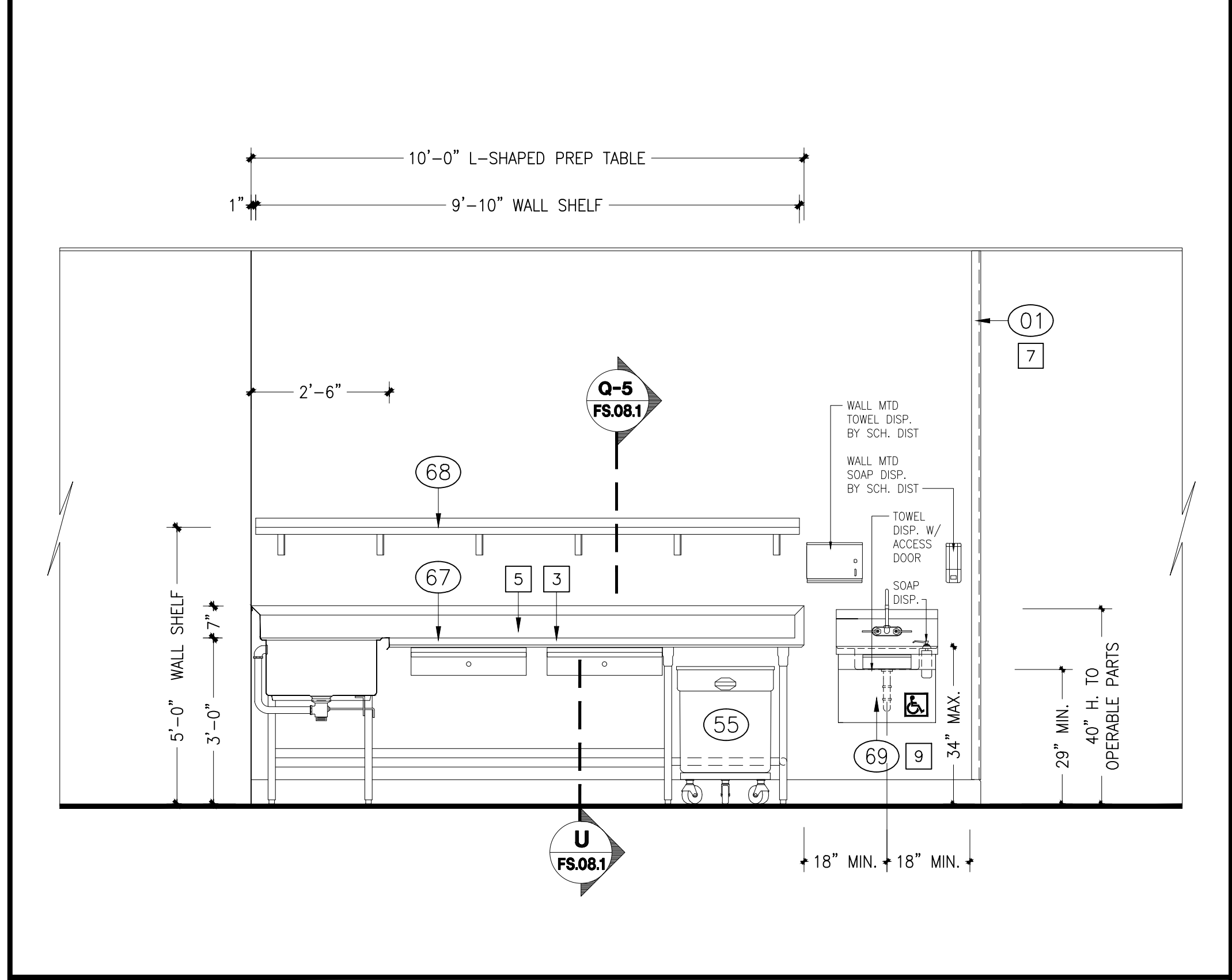
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	Date Last Revised -	Sheet Number FS.06.0

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



- 1 SEE CURB DETAIL B/FS.08.0
 - 2 SEE MARINE EDGE Q-2/FS.08.1
 - 3 SEE TURN-DOWN 90° EDGE Q-1/FS.08.1
 - 4 SEE RAISED ROLLED EDGE Q-4/FS.08.1
 - 5 SEE SINK SPLASH DETAIL Q-10/FS.08.1
 - 6 SEE TABLE SPLASH DETAIL Q-7/FS.08.1
 - 7 SEE CORNER GUARD/END CAP DETAIL - N/FS.08.1
 - 8 SEE S/S WALL FLASHING DETAIL P/FS.08.1
 - 9 SEE ACCESSIBLE SINK DETAIL A/FS.08.0
 - 10 SEE FIRE SUPPRESSION DETAIL J/FS.08.0
 - 11 SEE FLOOR TROUGH DETAIL W/FS.08.1
 - 12 NOT USED
 - 13 SEE POT SINK DETAIL E/FS.08.0
- (O1) ITEM NUMBER (SEE EQUIPMENT SCHEDULE)

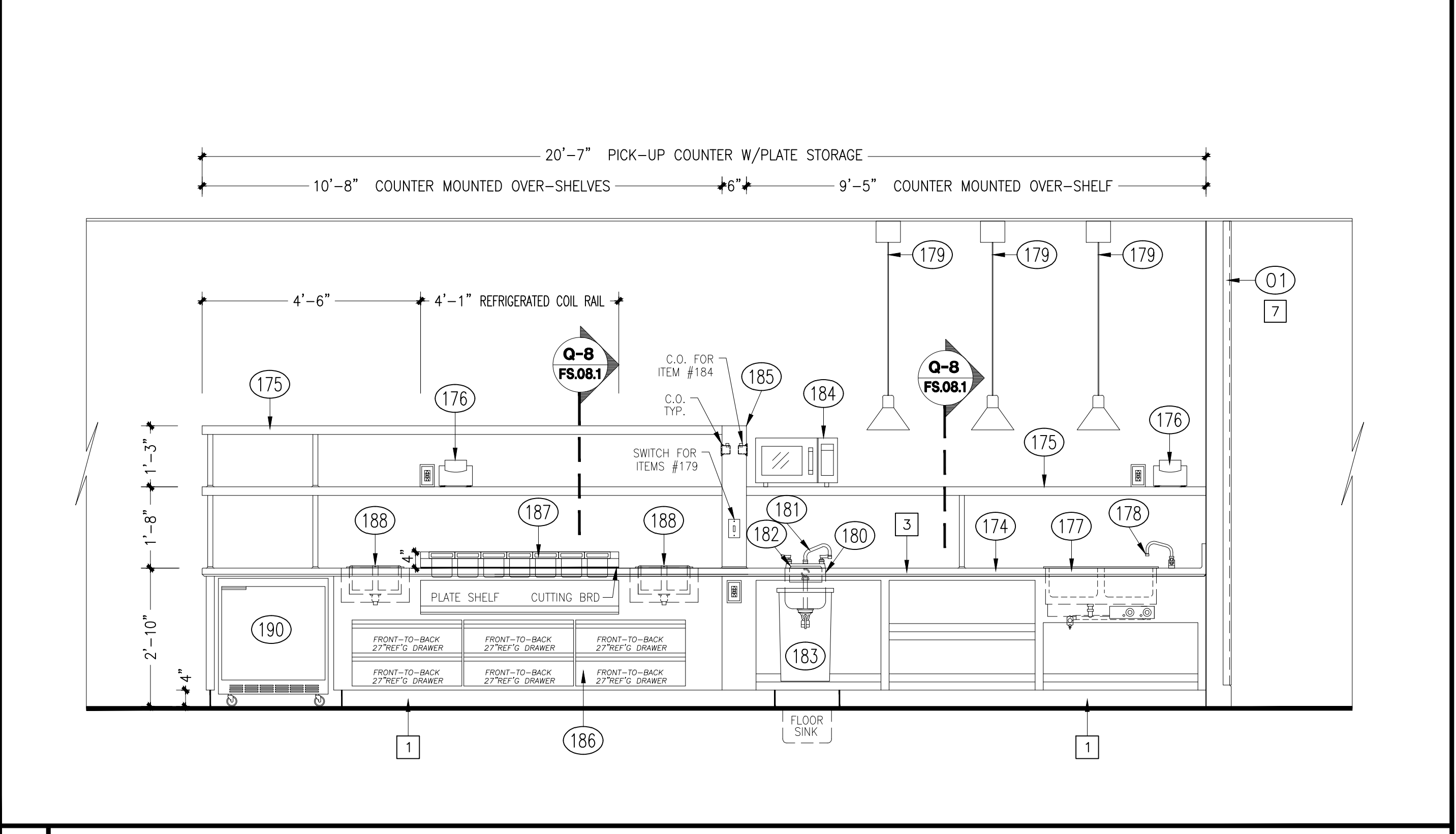
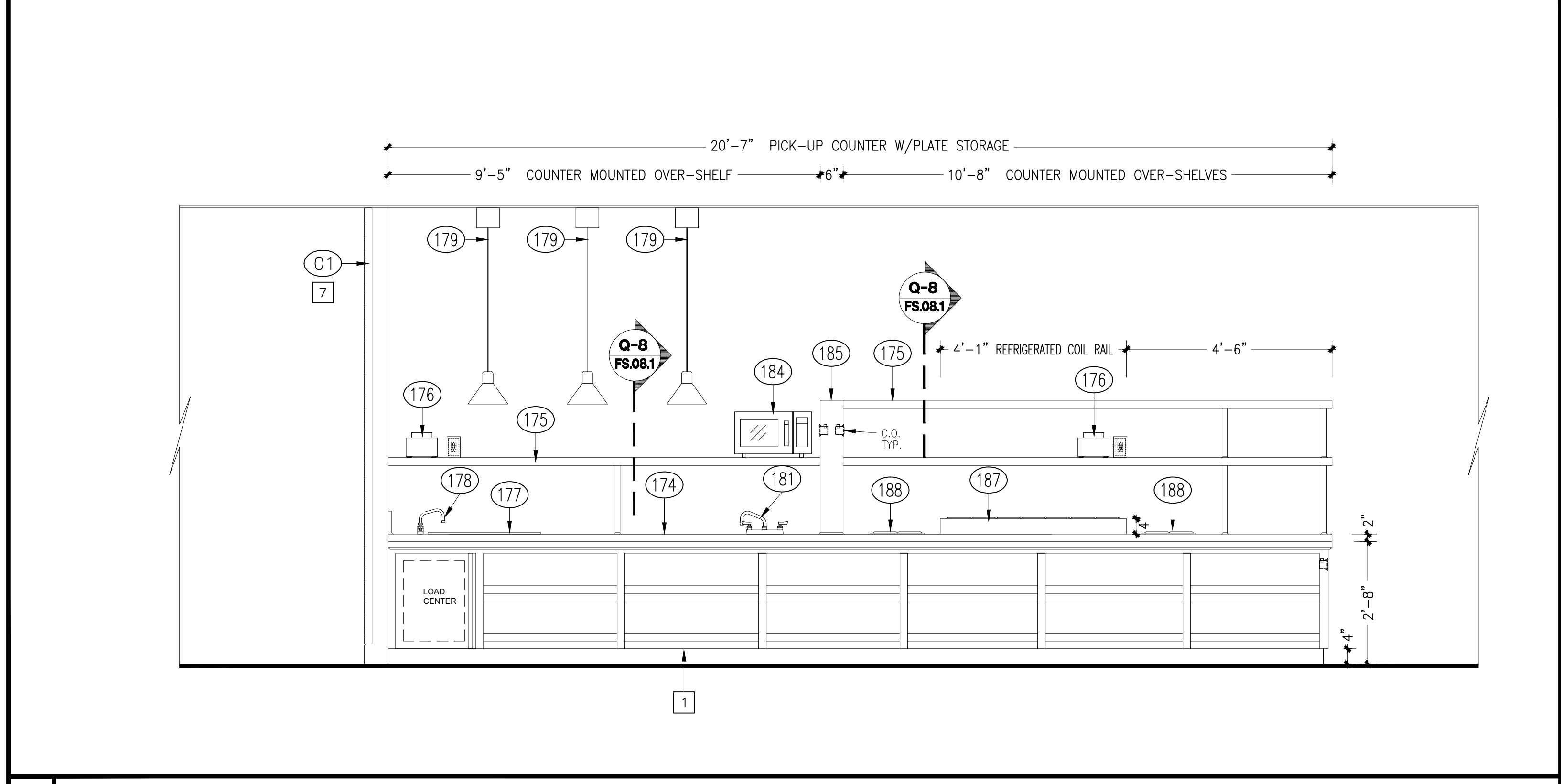
7 ELEVATION @ PREP TABLE W/SINKS, ROLL-IN REFRIGERATOR, STATIONARY WORK TABLE & L-SHAPED PREP TABLE W/SINKS 1/2"=1'-0" **KEY NOTES**



8 ELEVATION @ L-SHAPED PREP TABLE & ACCESSIBLE HAND SINK 1/2"=1'-0"

9 ELEVATION @ STORAGE SHELVING & SOILED DISH TABLE 1/2"=1'-0"

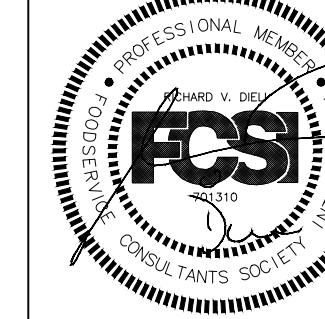
10 ELEVATION @ CLEAN DISH TABLE, STORAGE SHELVING & HAND SINK 1/2"=1'-0"



11 ELEVATION @ PICK-UP COUNTER W/PLATE STORAGE 1/2"=1'-0"

12 ELEVATION @ PICK-UP COUNTER W/PLATE STORAGE 1/2"=1'-0"

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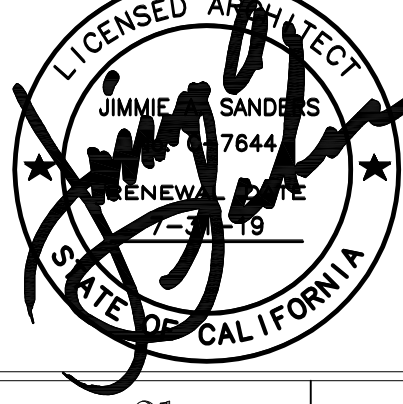


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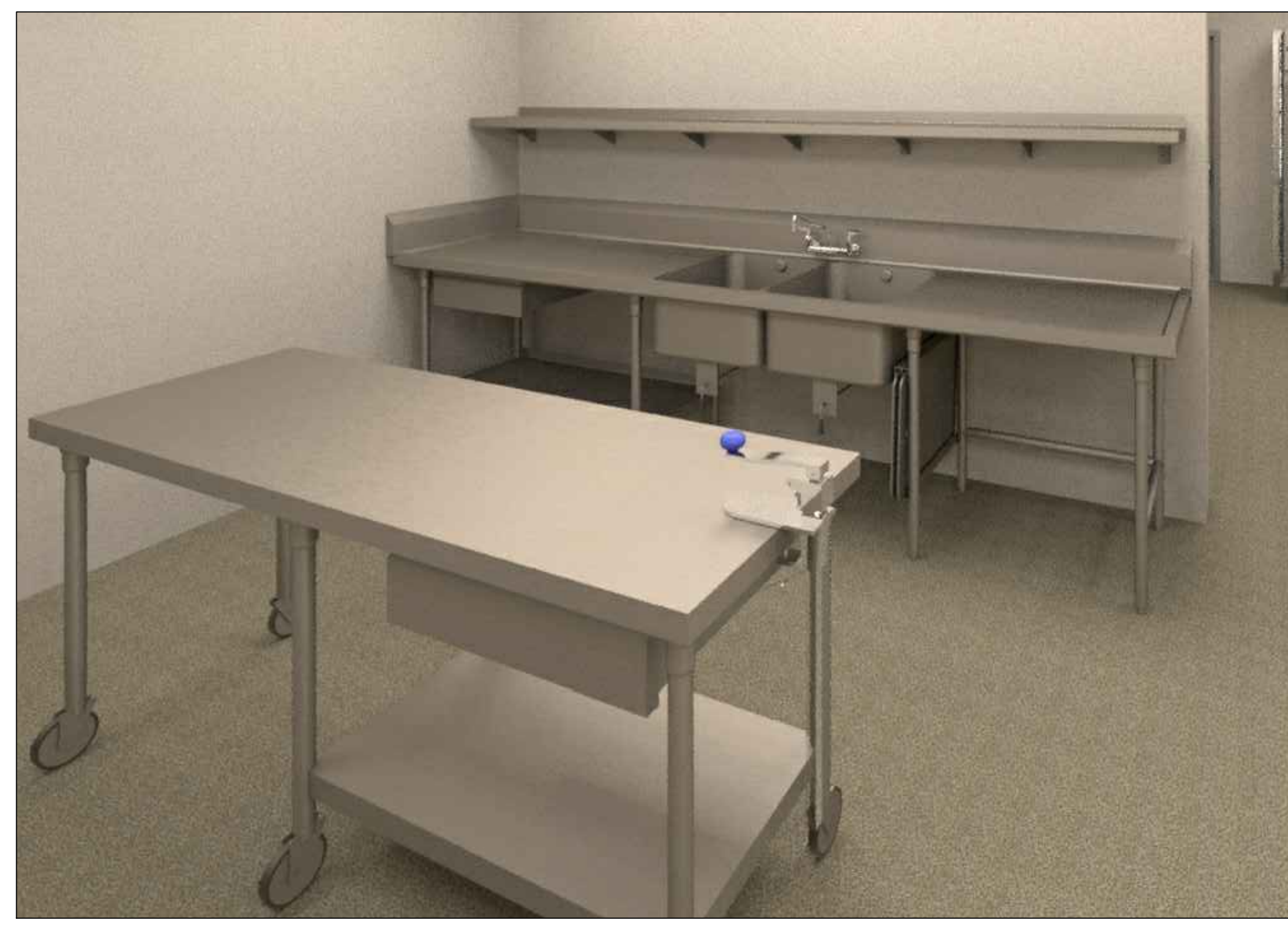
Project Title
**CALEXICO UNIFIED SCHOOL DISTRICT
 CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
**FOODSERVICE EQUIPMENT
 ELEVATIONS**

	Document Date	Project Number
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	Date Last Revised	Sheet Number
		FS.07.1

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5 3D VIEW of PICK-UP COUNTER W/PLATE STORAGE

6 3D VIEW of PICK-UP COUNTER W/PLATE STORAGE



7 3D VIEW of HOOD #1, COOKING EQUIPMENT & PREP TABLE

8 3D VIEW of HOOD #2 & COOKING EQUIPMENT



9 3D VIEW of BAKERY AREA

- NOT USED

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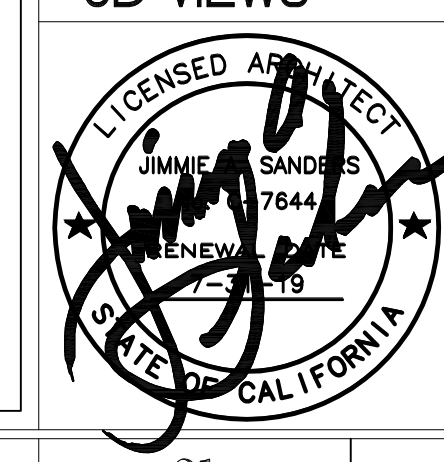
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Project Title
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 CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION

Sheet Title
 FOODSERVICE EQUIPMENT
 3D VIEWS

Document Date 09-12-18	Project Number 18-250X
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5 3D VIEW of PICK-UP COUNTER W/PLATE STORAGE

6 3D VIEW of PICK-UP COUNTER W/PLATE STORAGE



7 3D VIEW of HOOD #1, COOKING EQUIPMENT & PREP TABLE

8 3D VIEW of HOOD #2 & COOKING EQUIPMENT

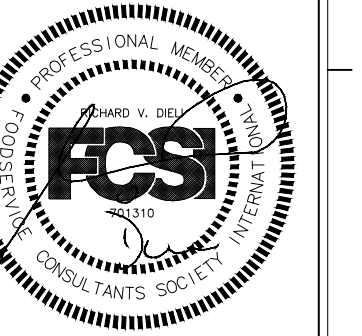


9 3D VIEW of BAKERY AREA

- NOT USED

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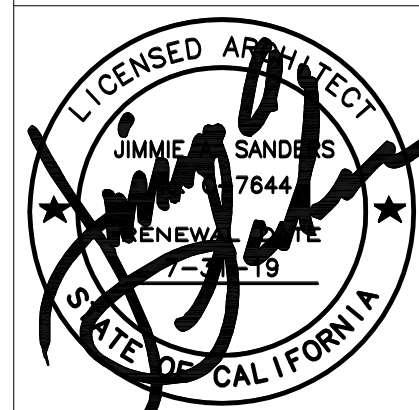


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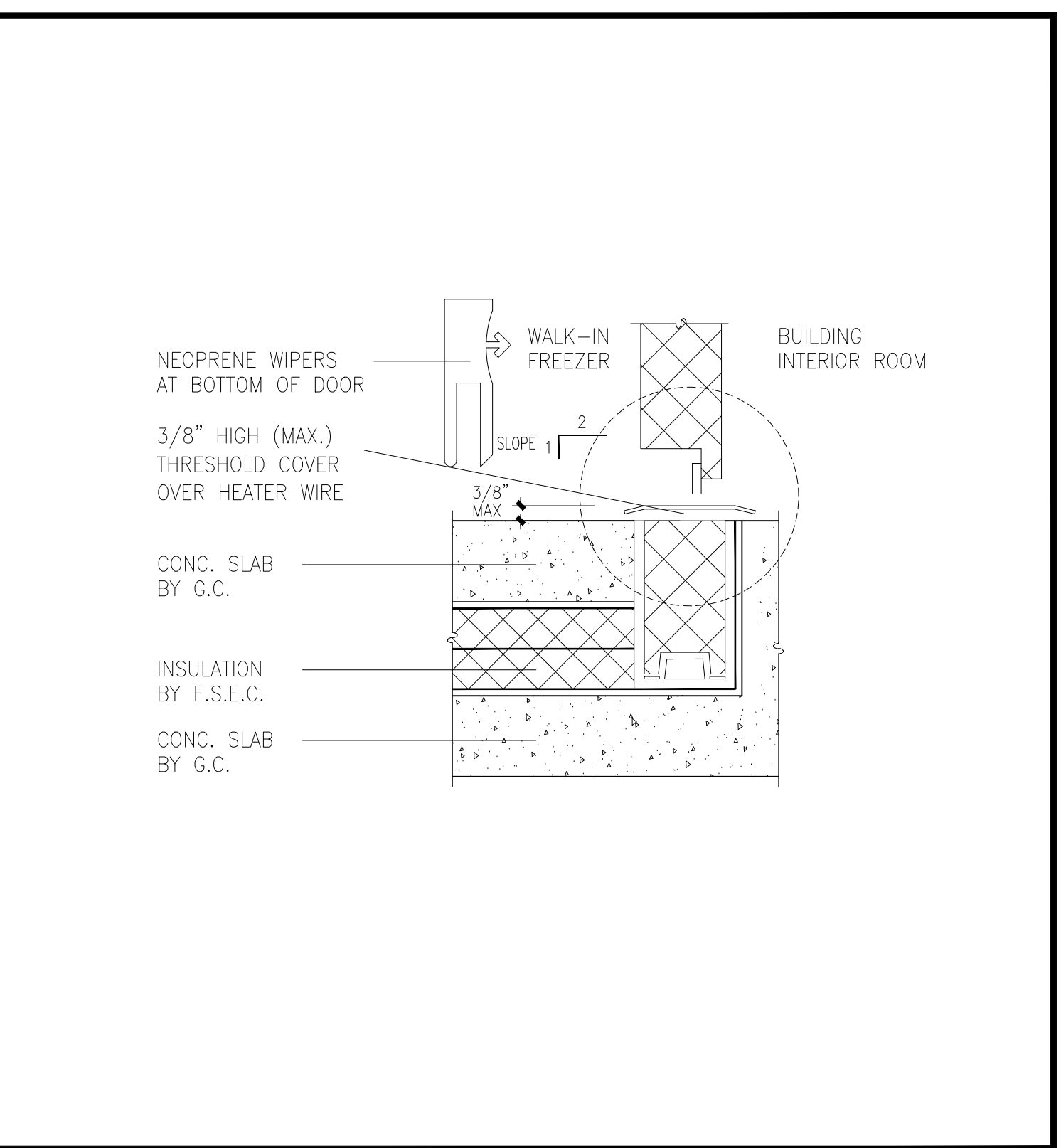
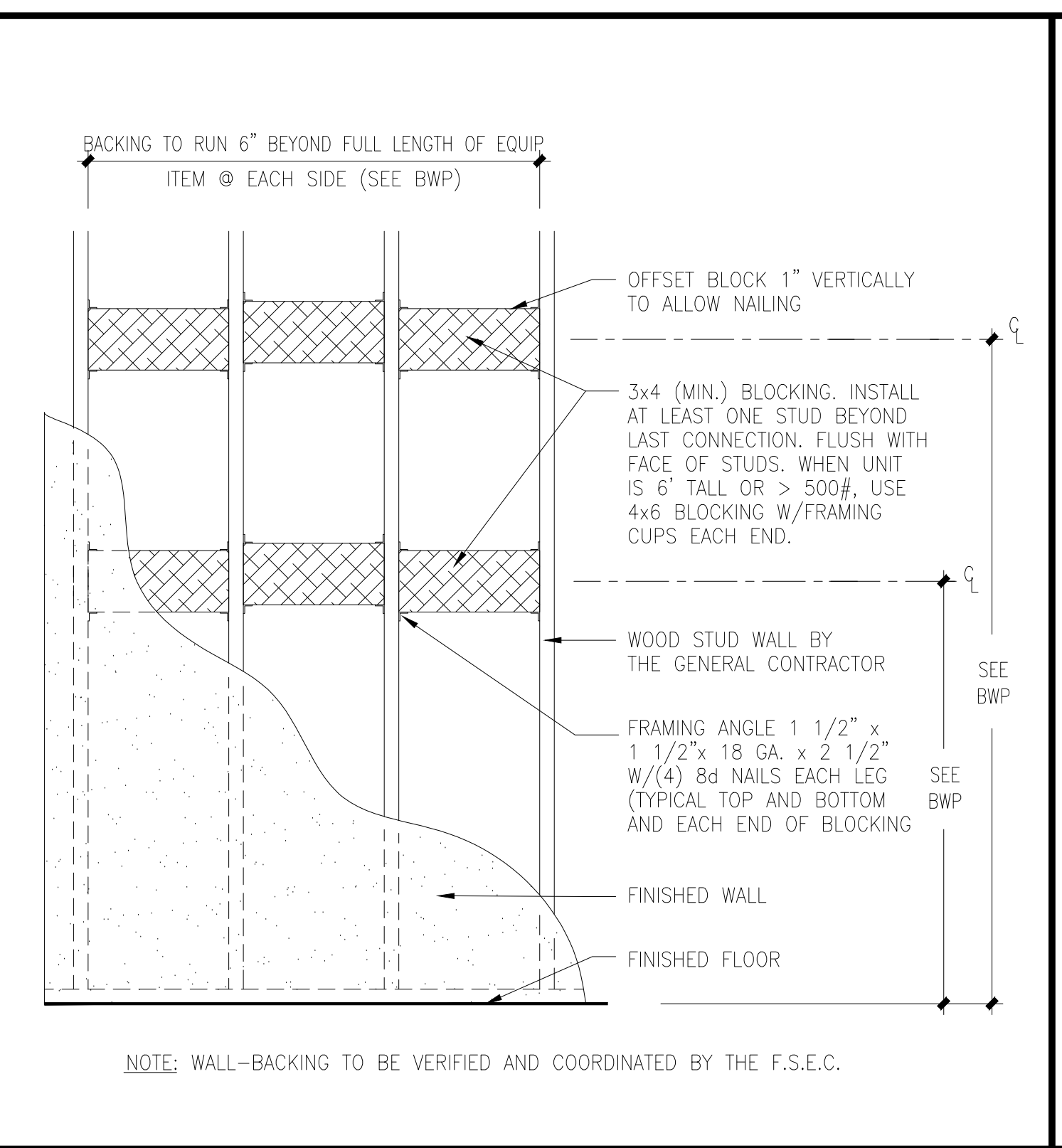
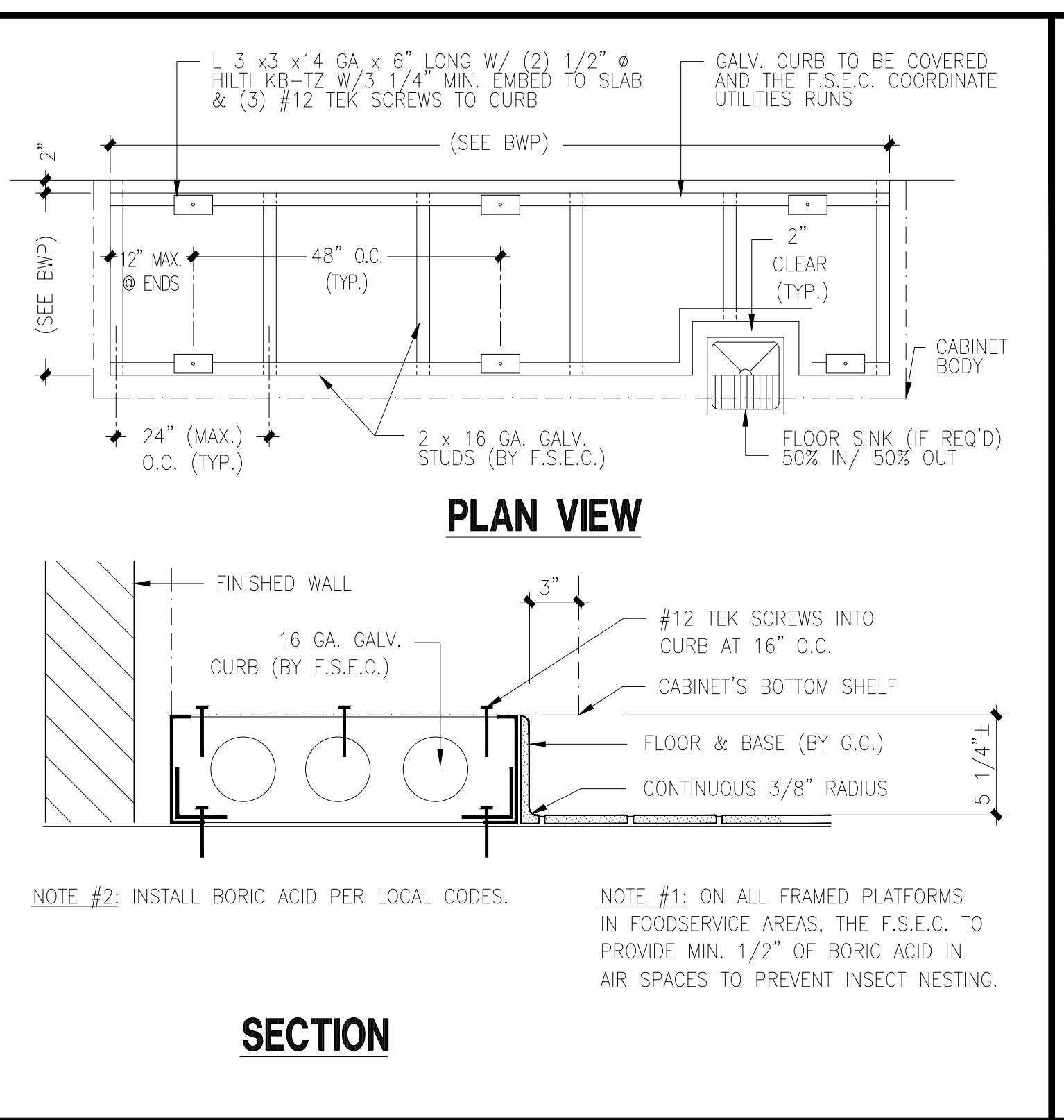
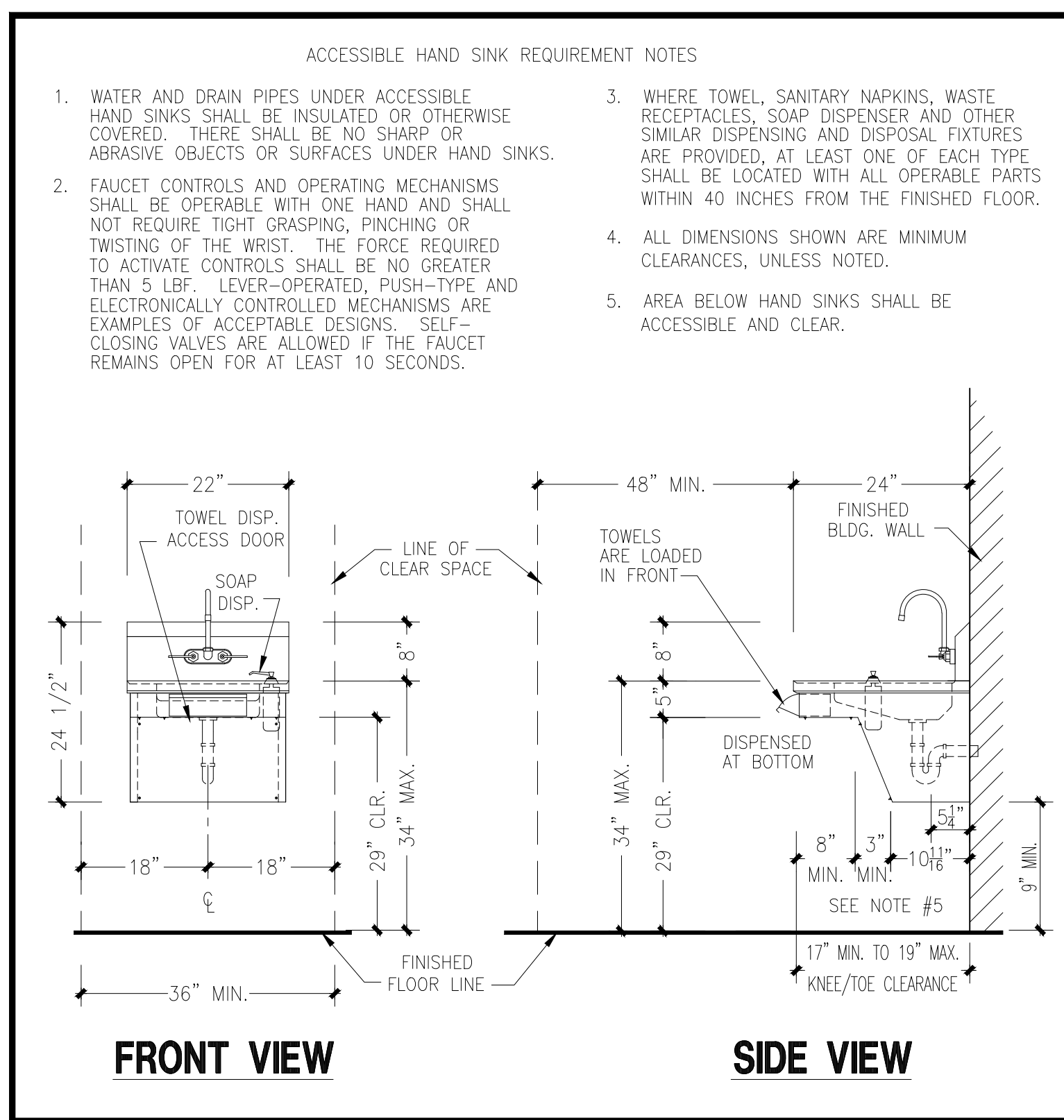
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Sheet Title
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Date Last Revised -	Sheet Number FS.07.B

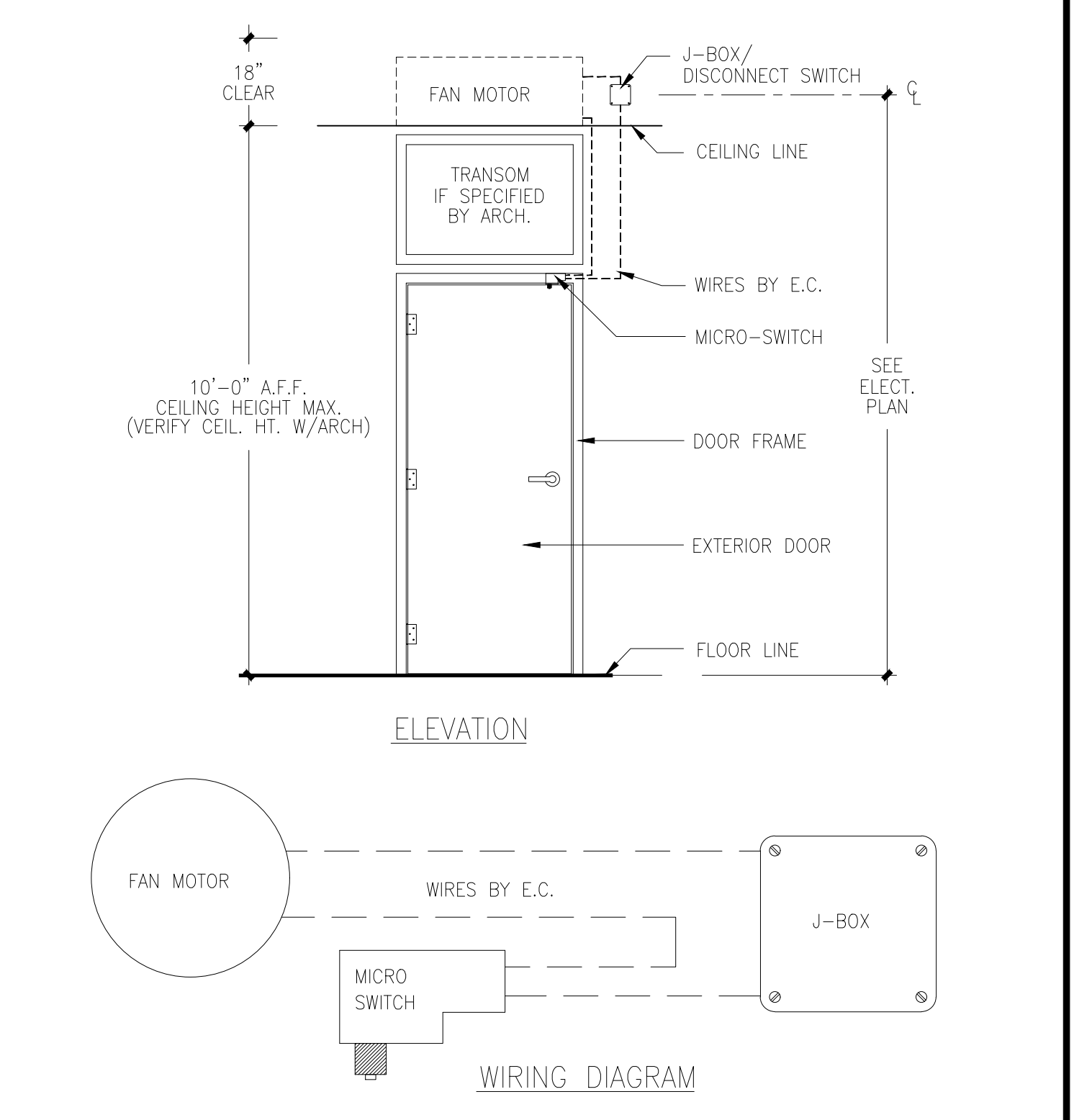
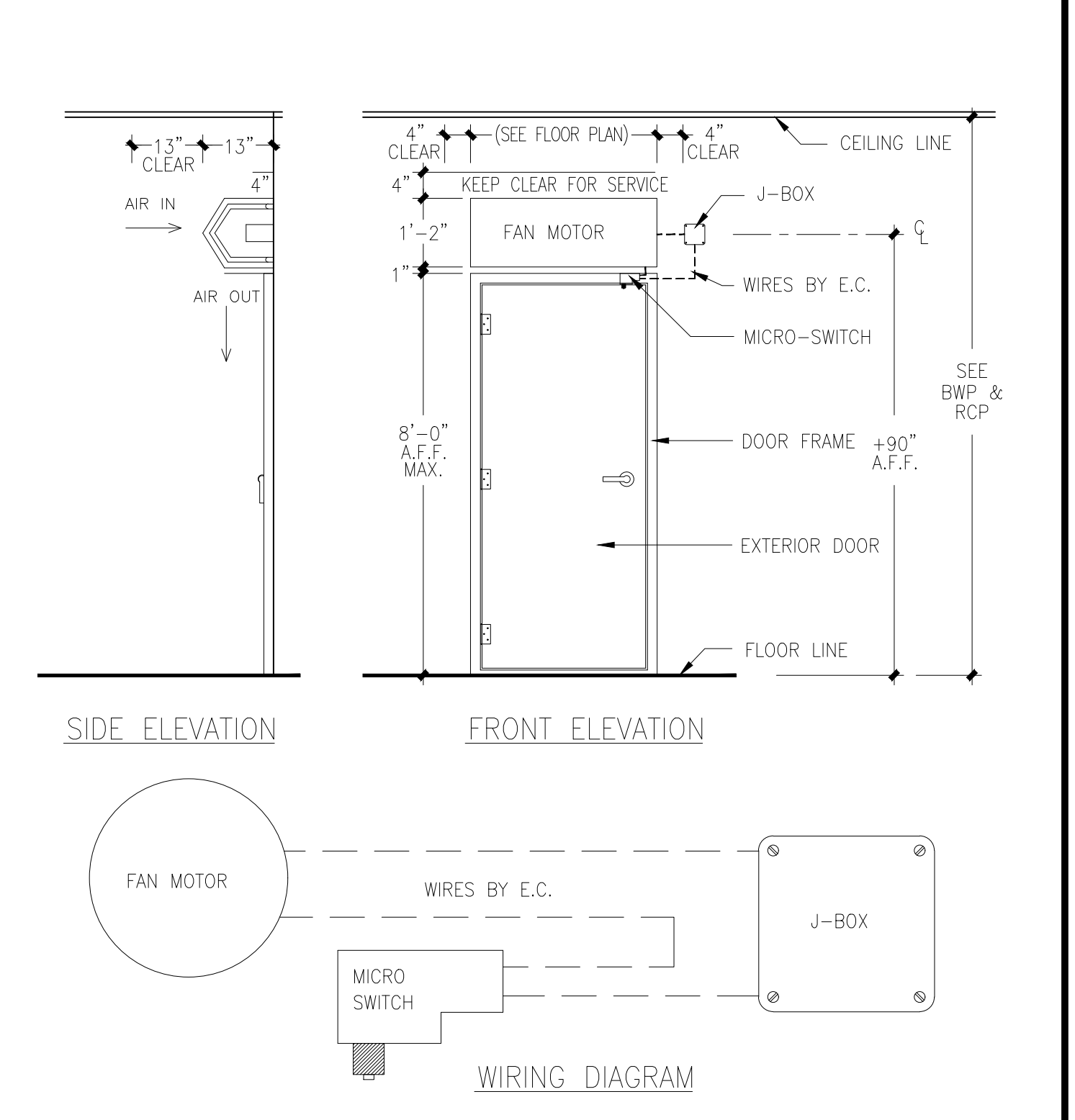
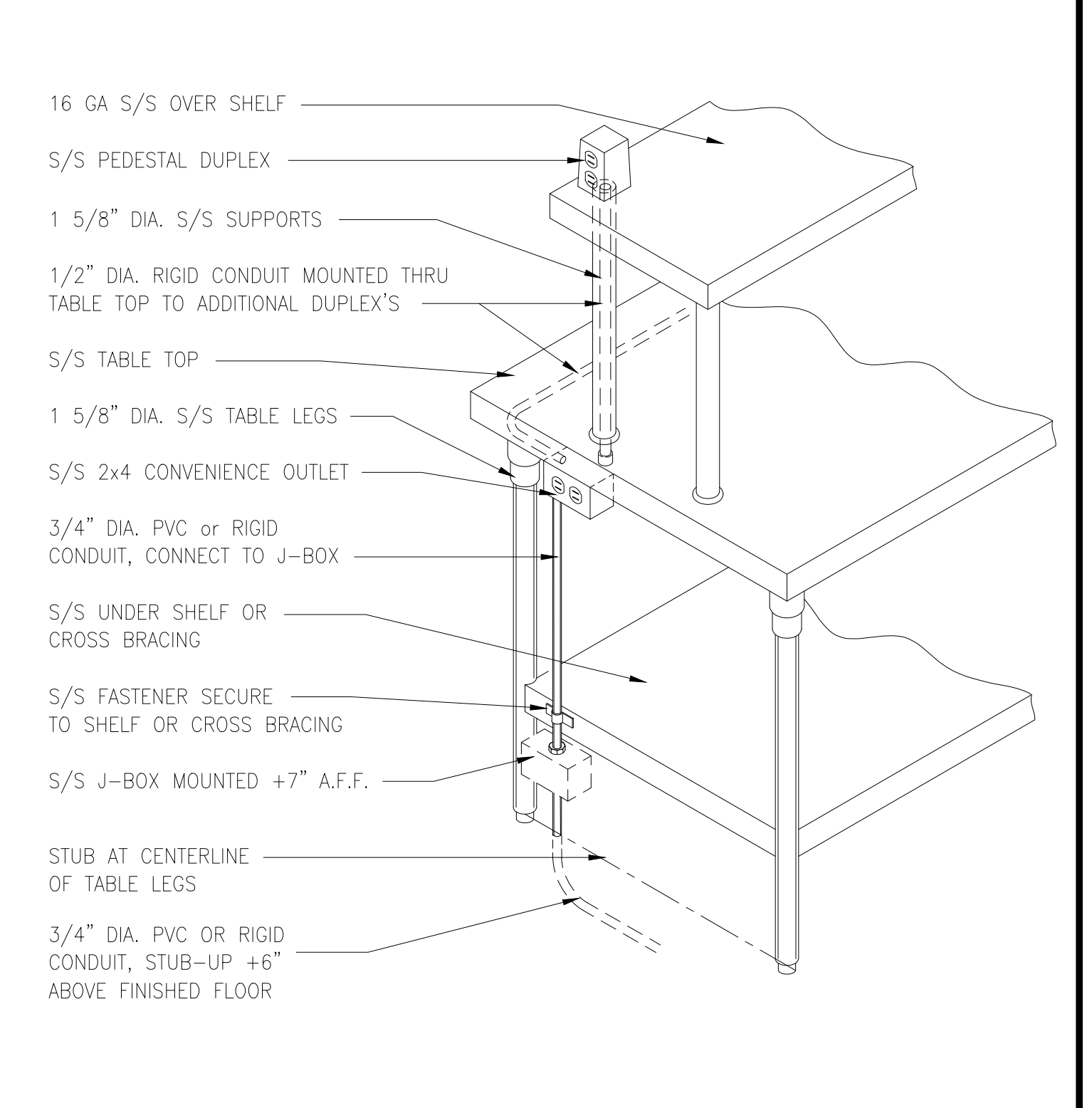
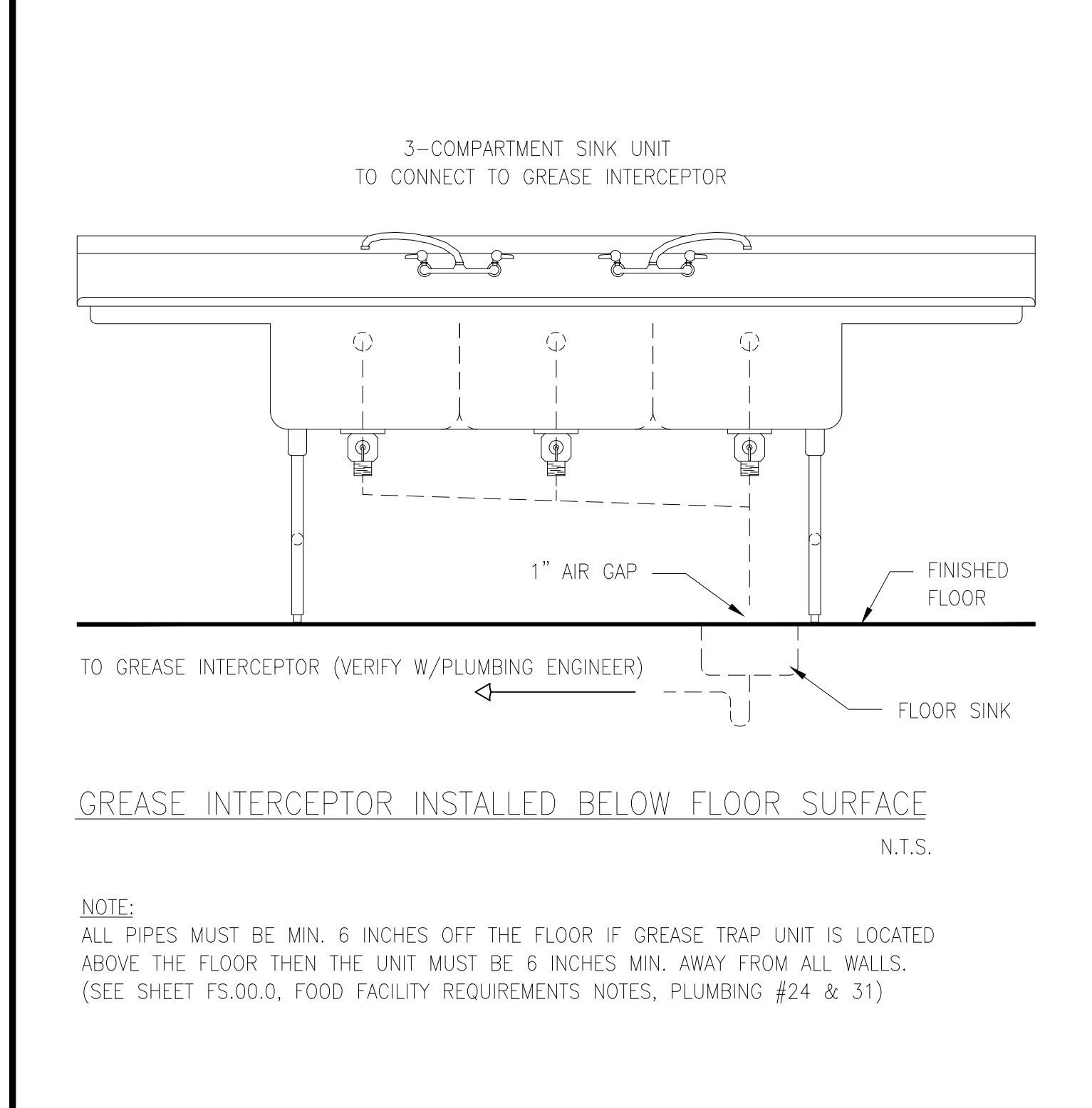


A ACCESSIBLE HAND SINK DETAILS N.T.S.

B GALVANIZED CURB FOR COUNTER DETAIL N.T.S.

C WALL BLOCKING DETAIL PER SMACNA GUIDELINES N.T.S.

D WALK-IN THRESHOLD DETAIL (EPOXY FLOOR) N.T.S.

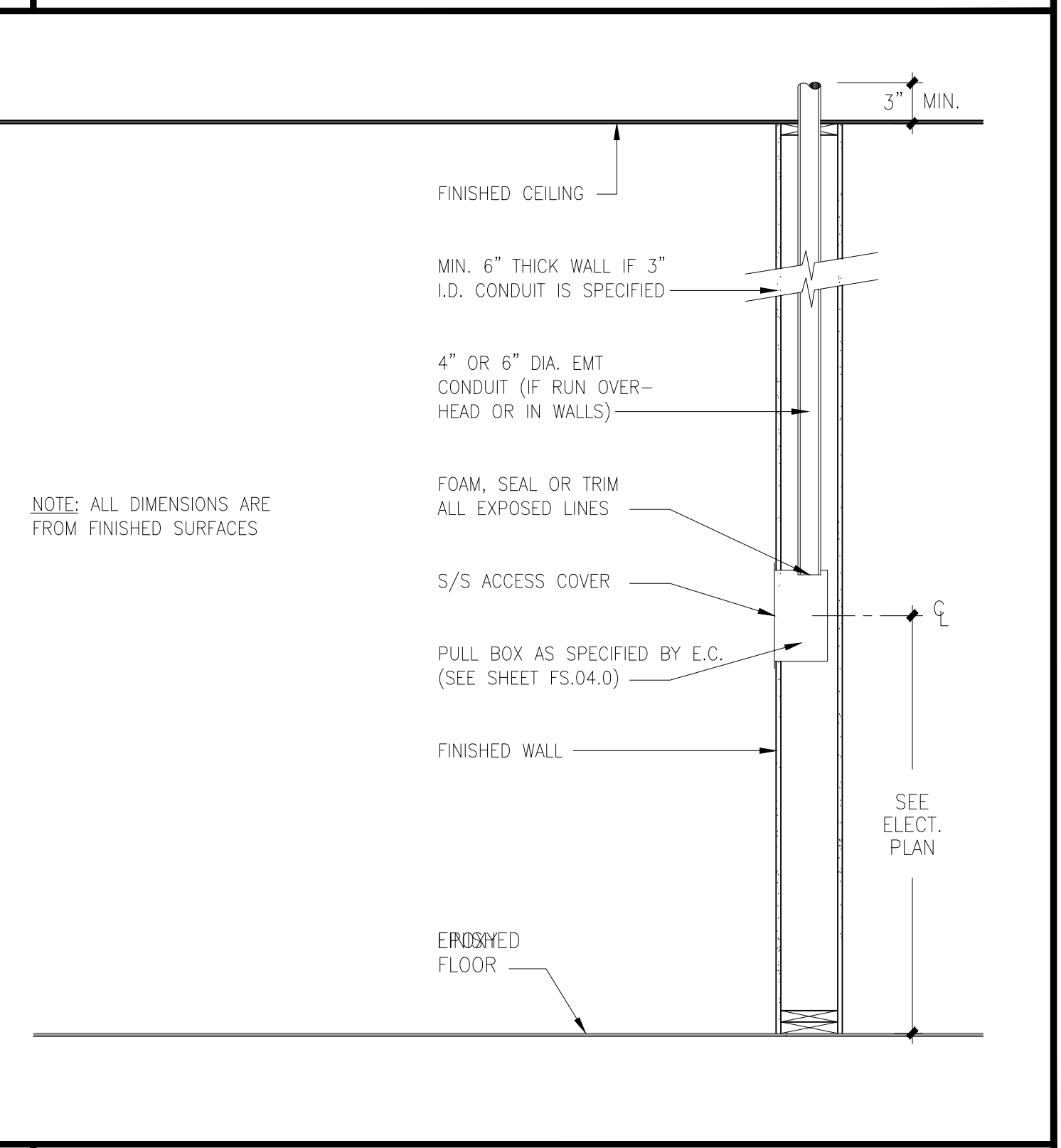
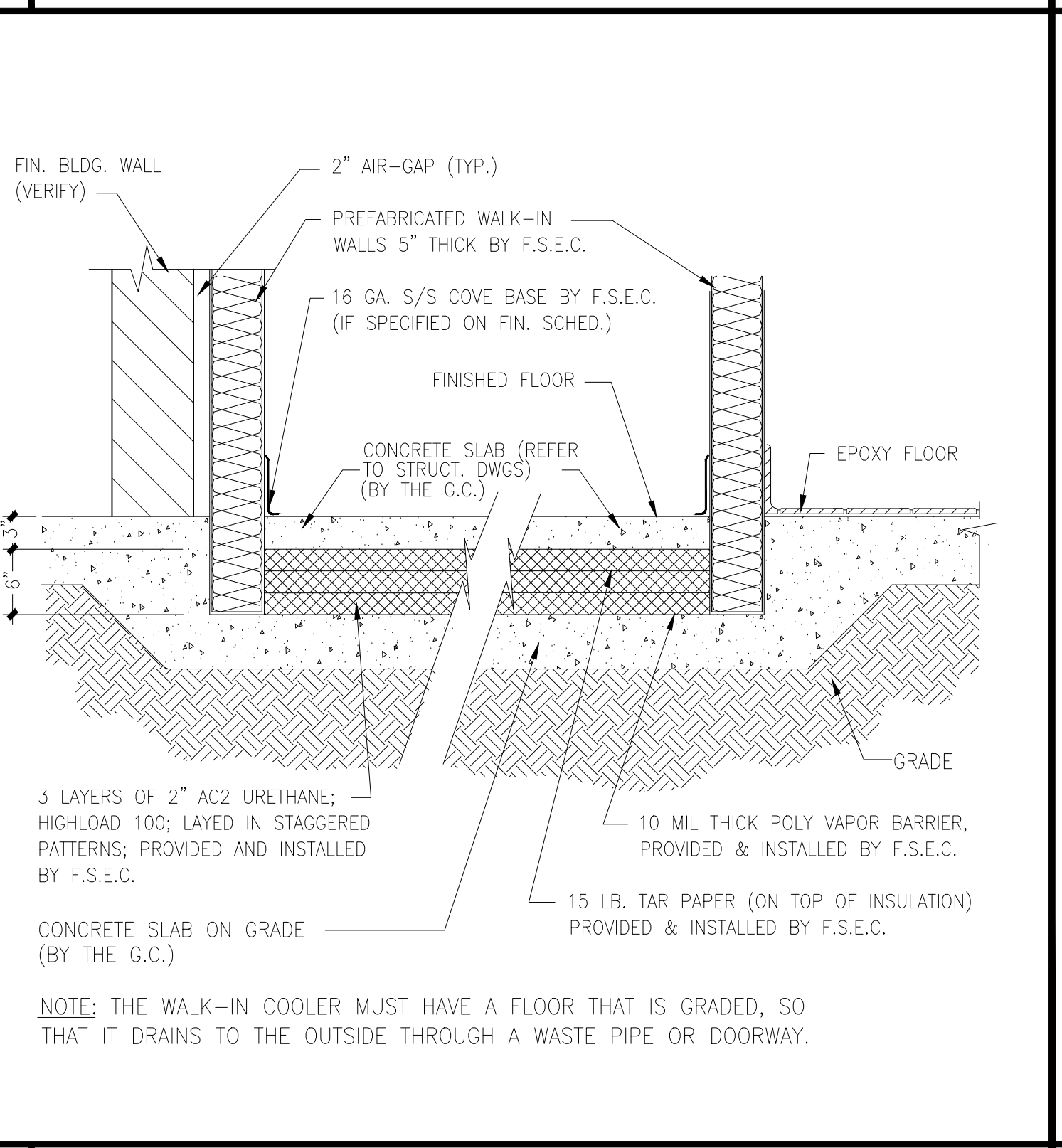
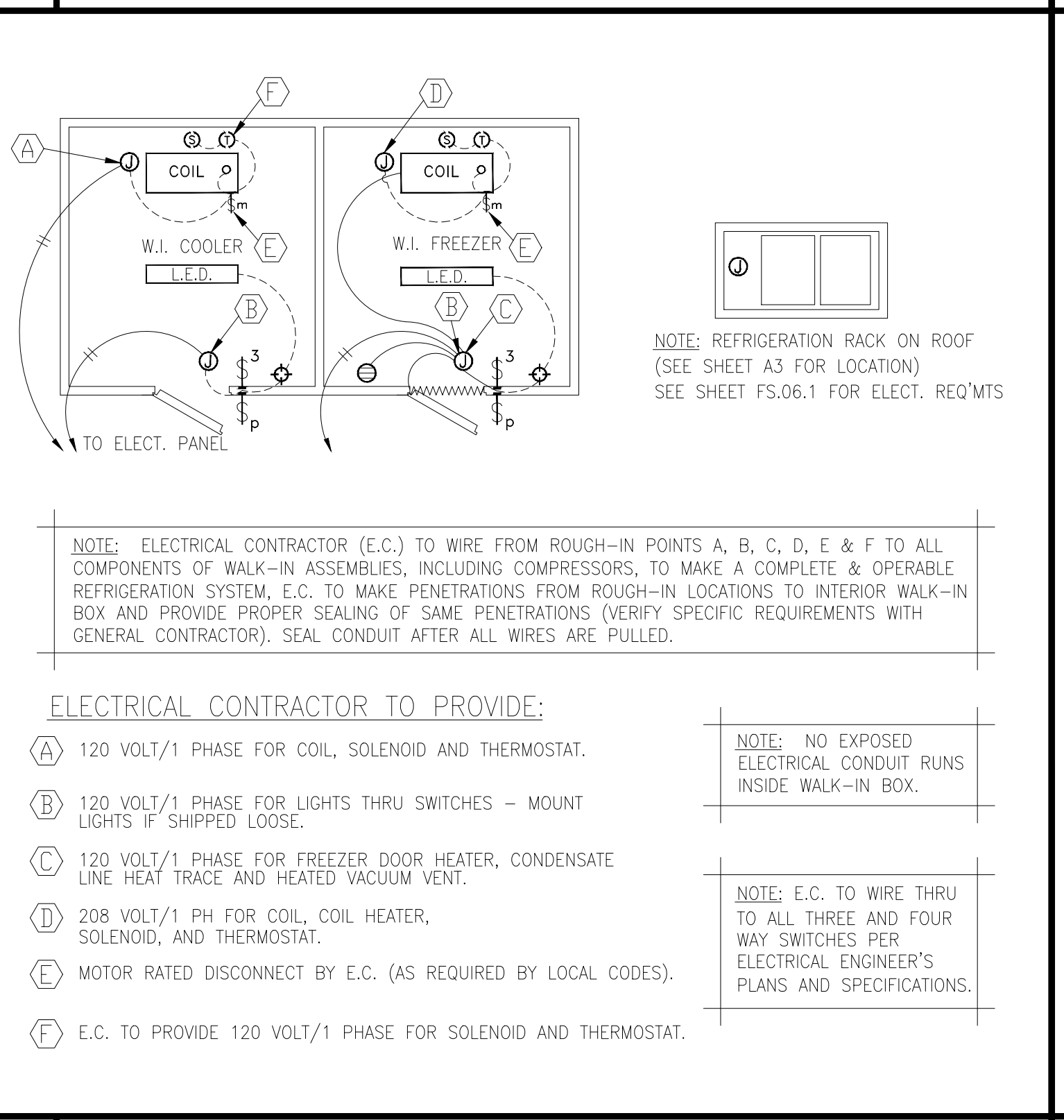
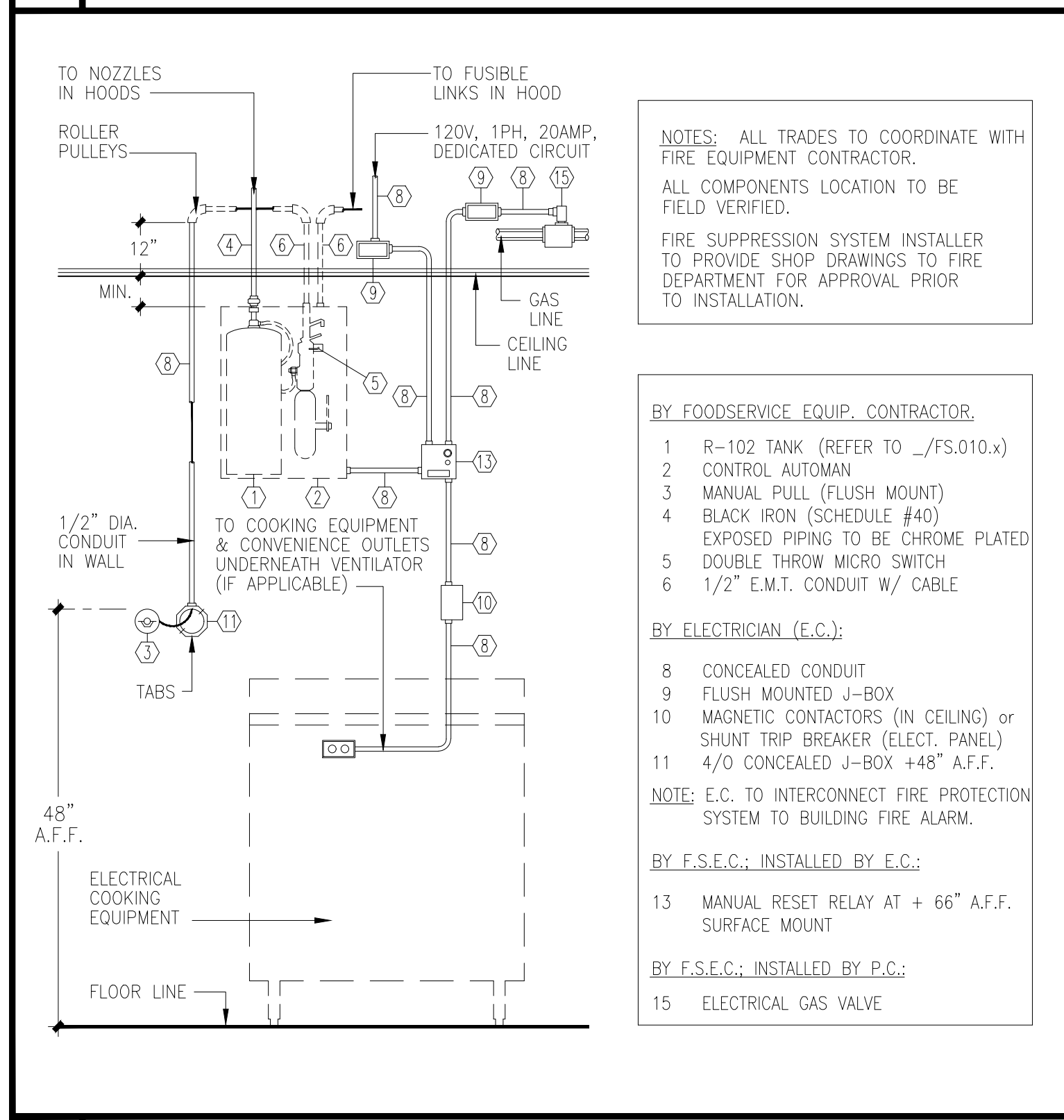


E POT SINK/GREASE INTERCEPTOR DETAIL N.T.S.

F ELECTRICAL CONDUIT STUB-UP DETAIL N.T.S.

G WALL MTD AIR CURTAIN'S MICRO-SWITCH DETAIL N.T.S.

H RECESSED CEILING MTD AIR CURTAIN'S DETAIL N.T.S.



J ELECTRICAL FIRE SUPPRESSION SYSTEM DETAIL N.T.S.

K TYPICAL WALK-IN BOX WIRING DETAIL N.T.S.

L WALK-IN FLOOR 9" DEEP DEPRESSION DETAIL N.T.S.

M REFRIGERATION PULL-BOX DETAIL N.T.S.

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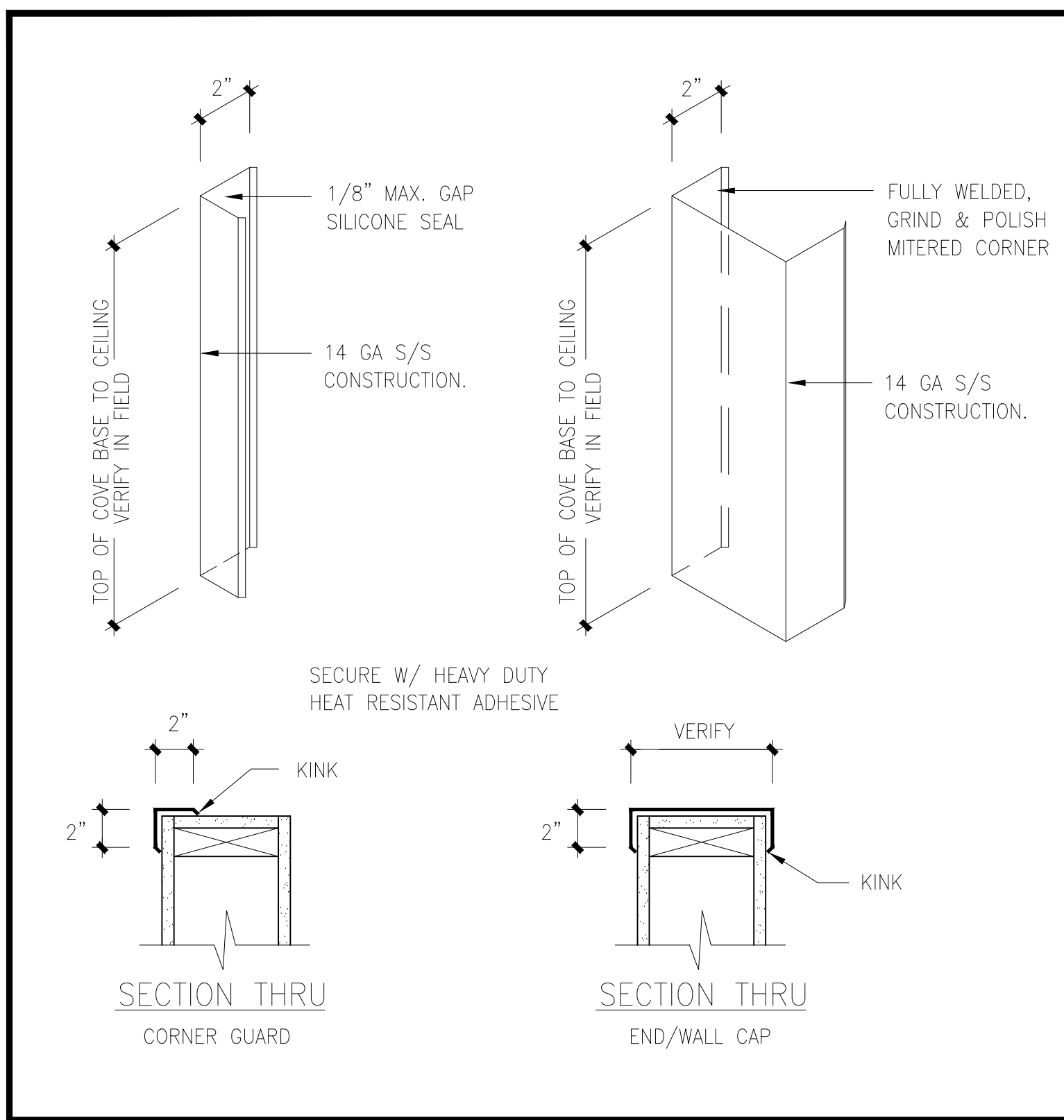
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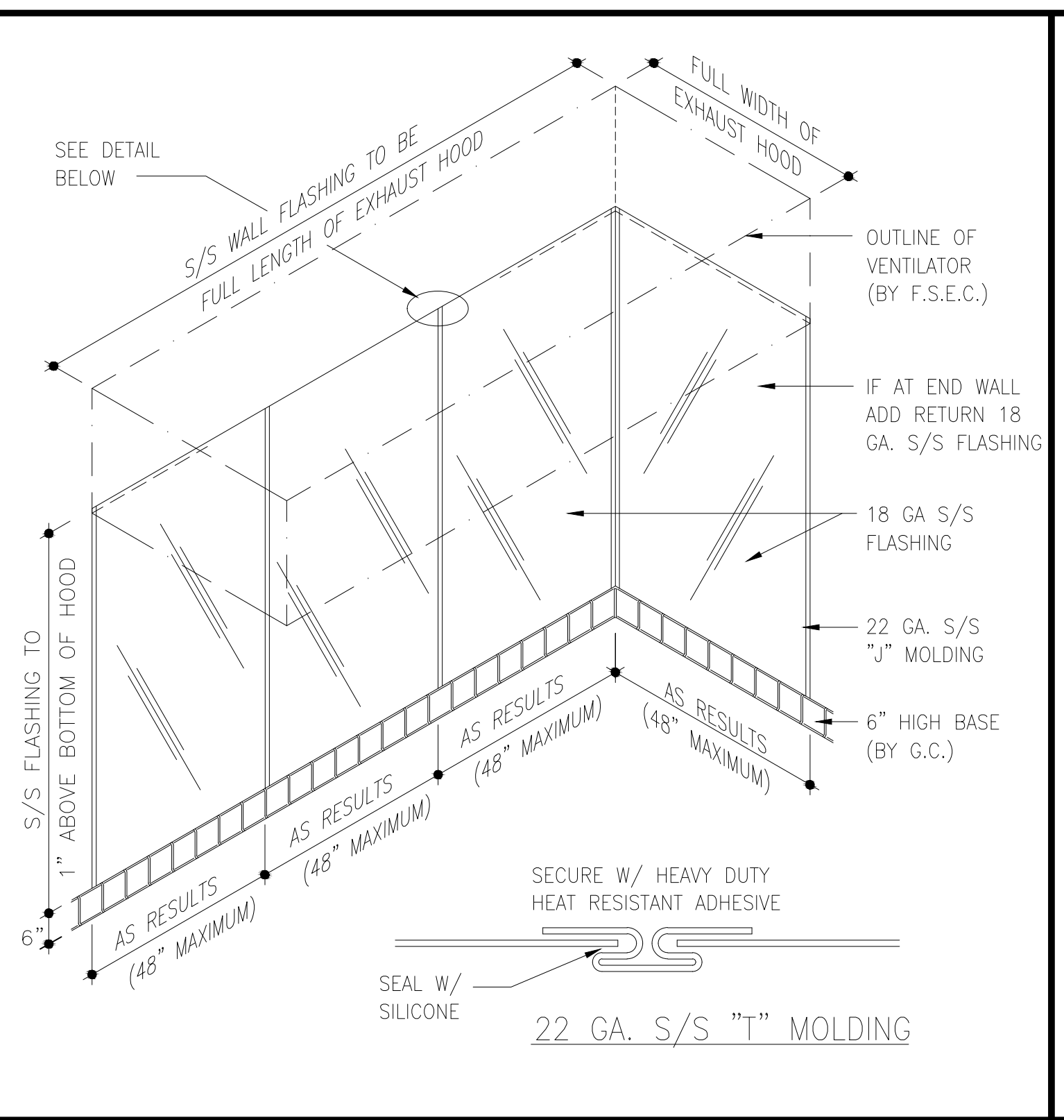
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CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
**FOODSERVICE EQUIPMENT
DETAILS**

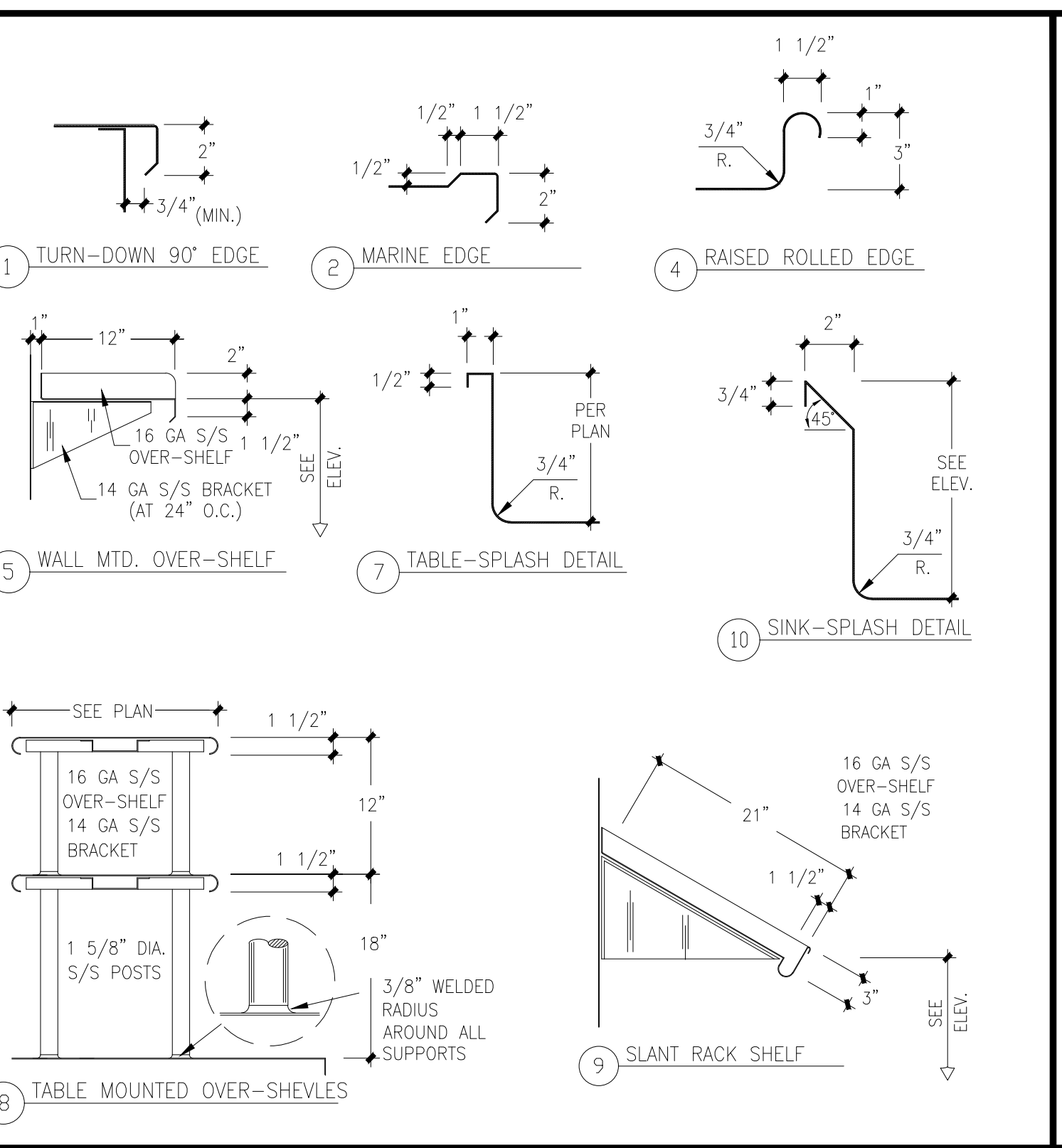
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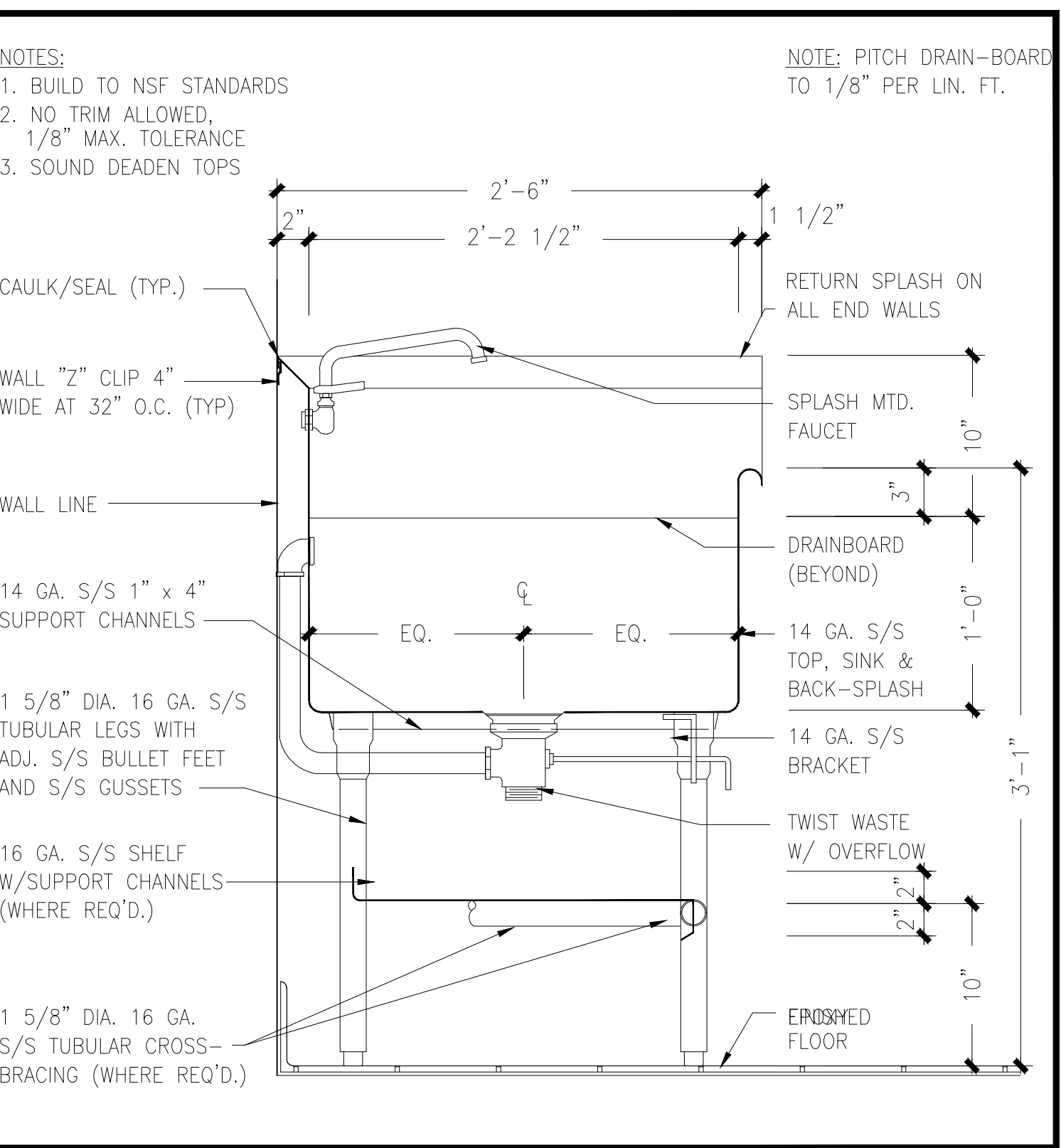
N CORNER GUARD/END CAP/WALL CAP N.T.S.



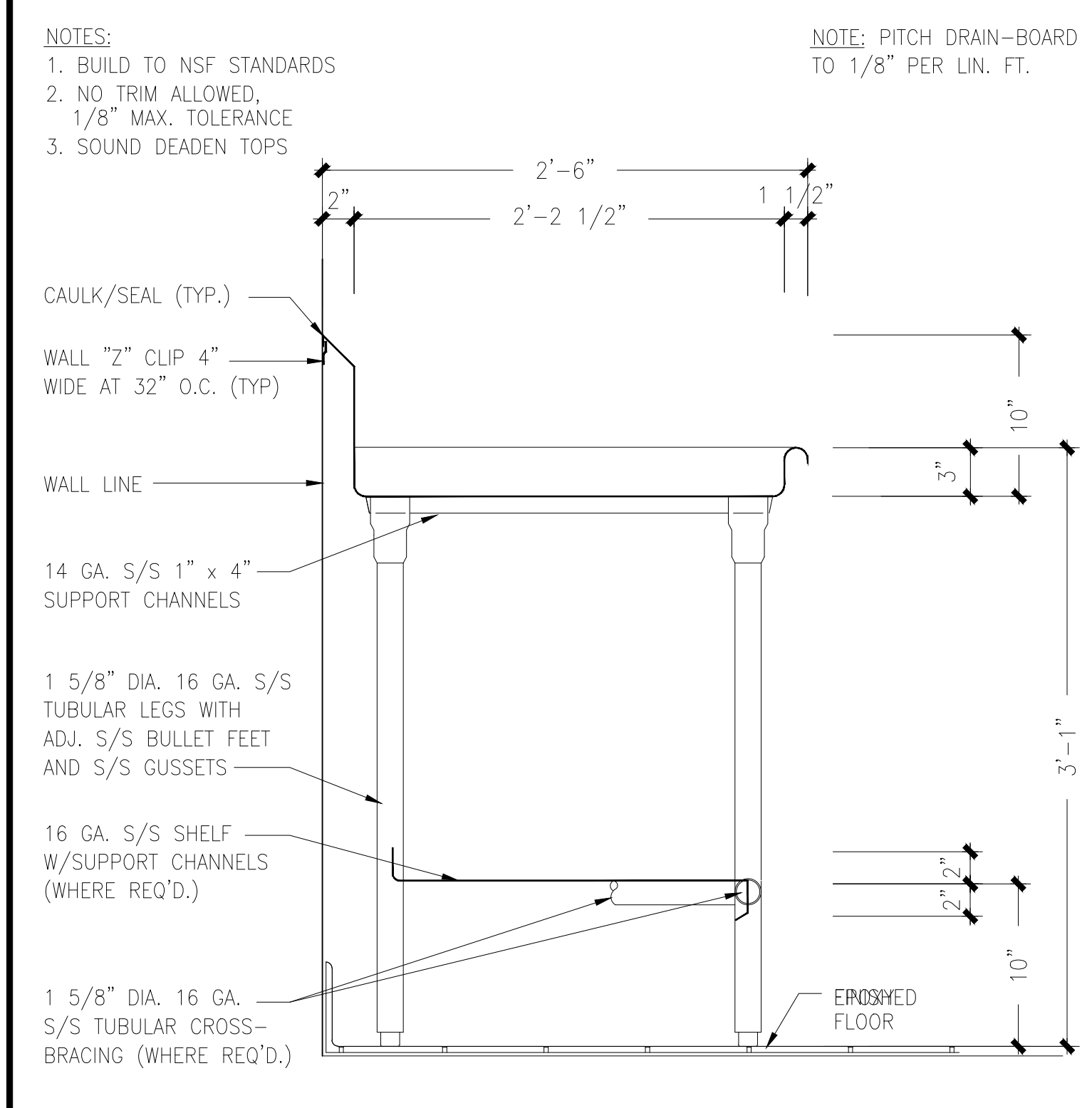
P 18 GA. S/S WALL FLASHING DETAIL N.T.S.



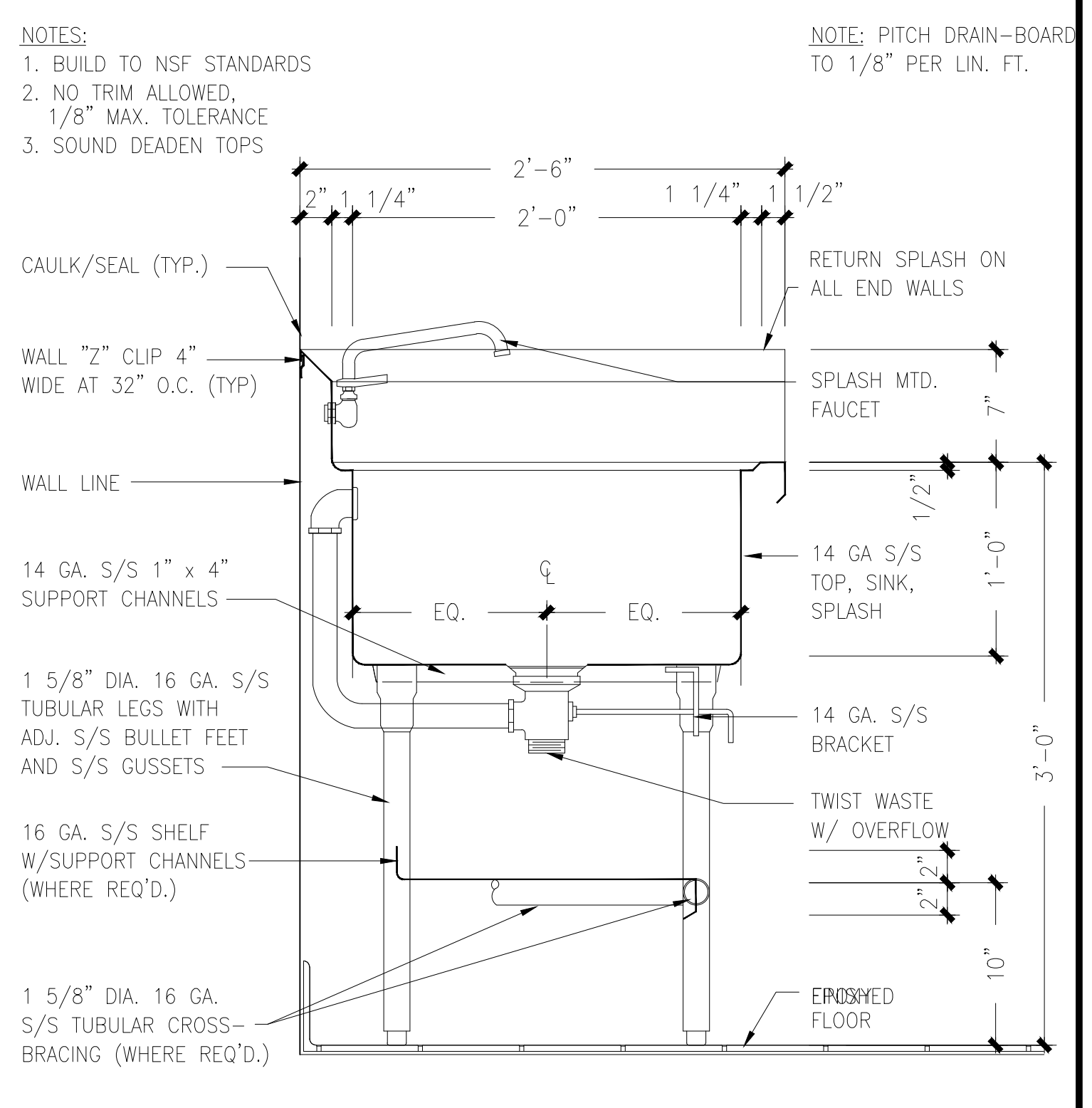
Q EDGE / SPLASH / OVERSHELF DETAILS N.T.S.



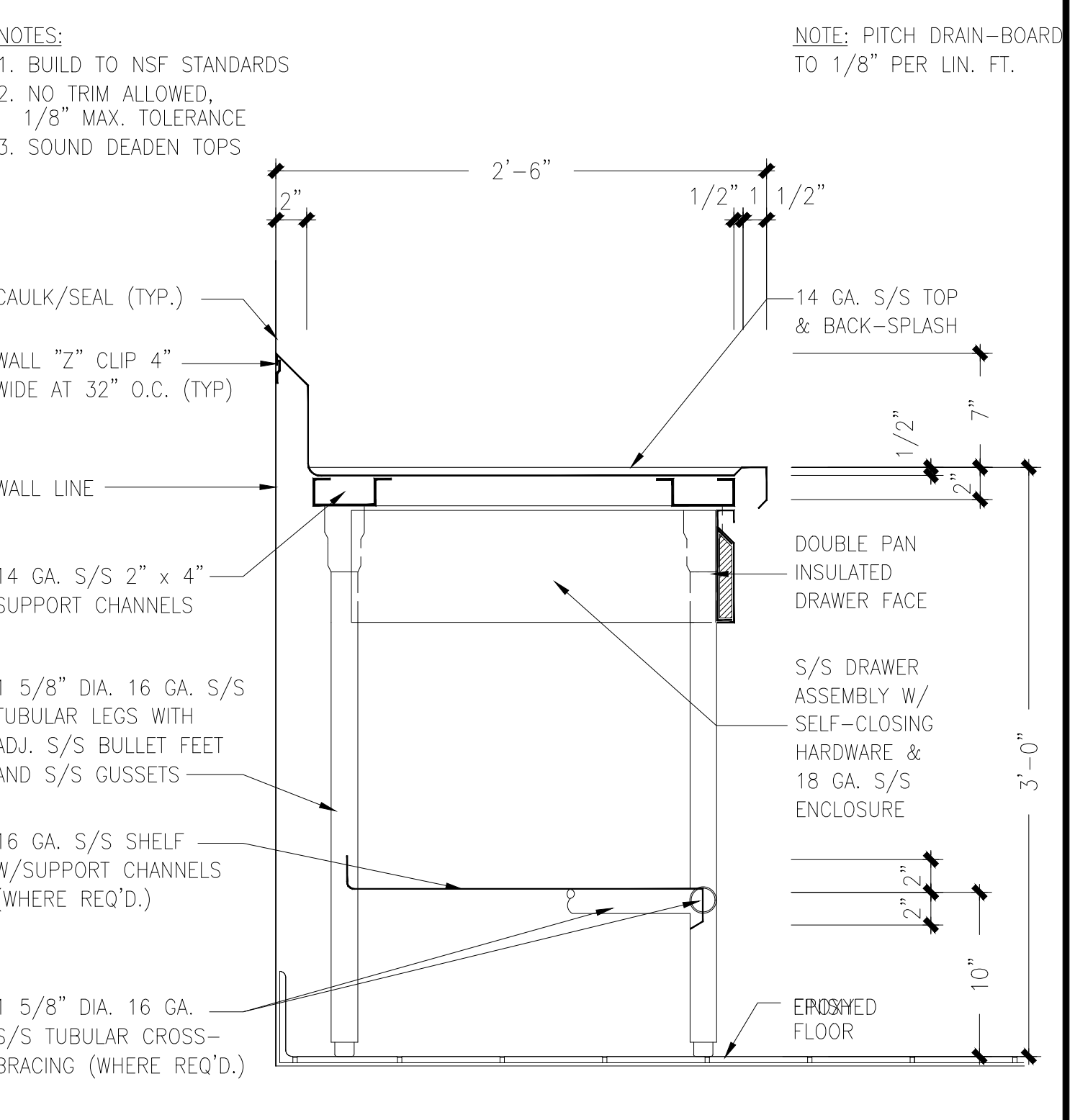
R 30" SINK W/RAISED ROLLED EDGE SECTION 1 1/2"=1'-0"



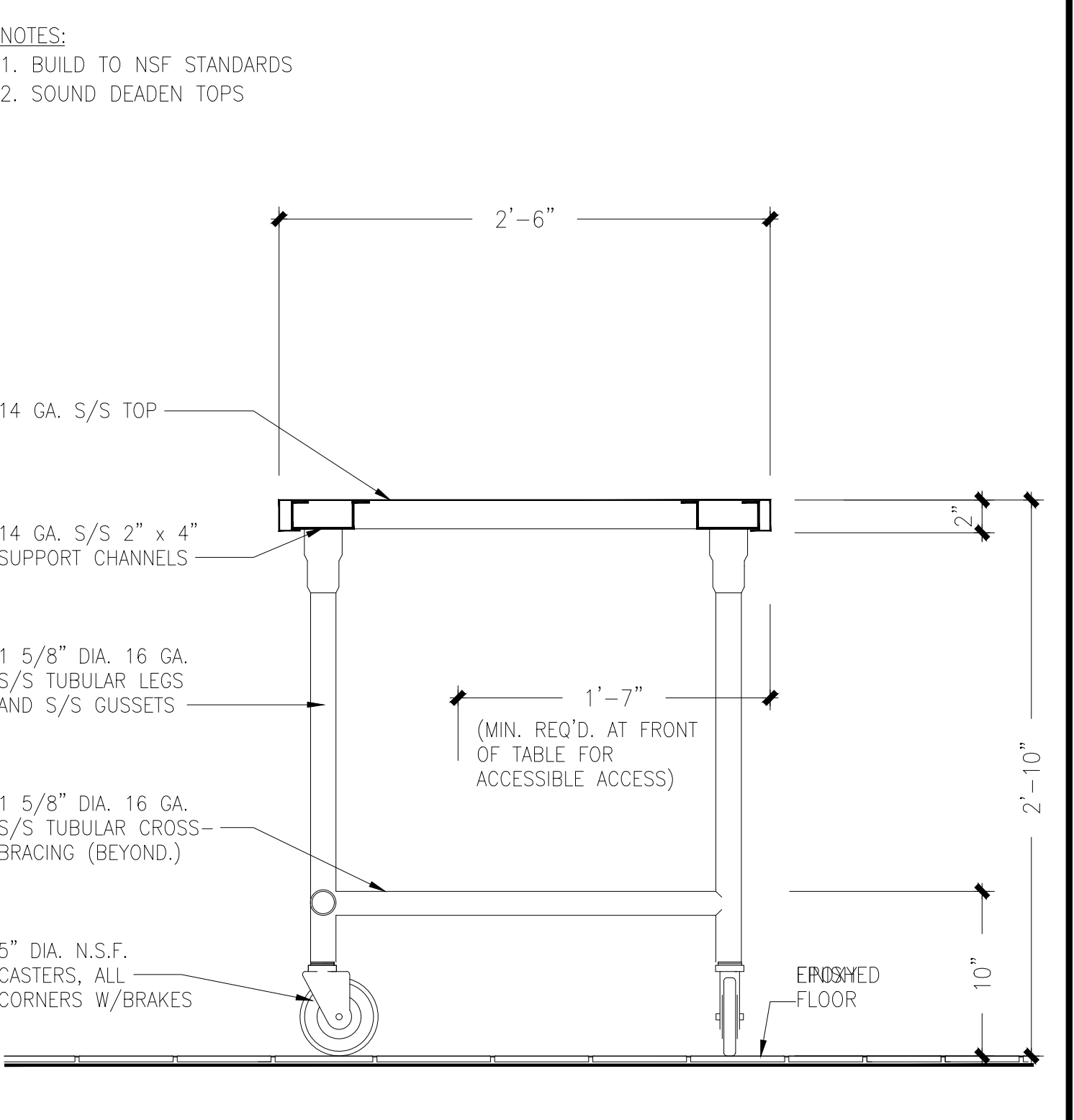
S 30" CLEAN DISHTABLE SECTION 1 1/2"=1'-0"



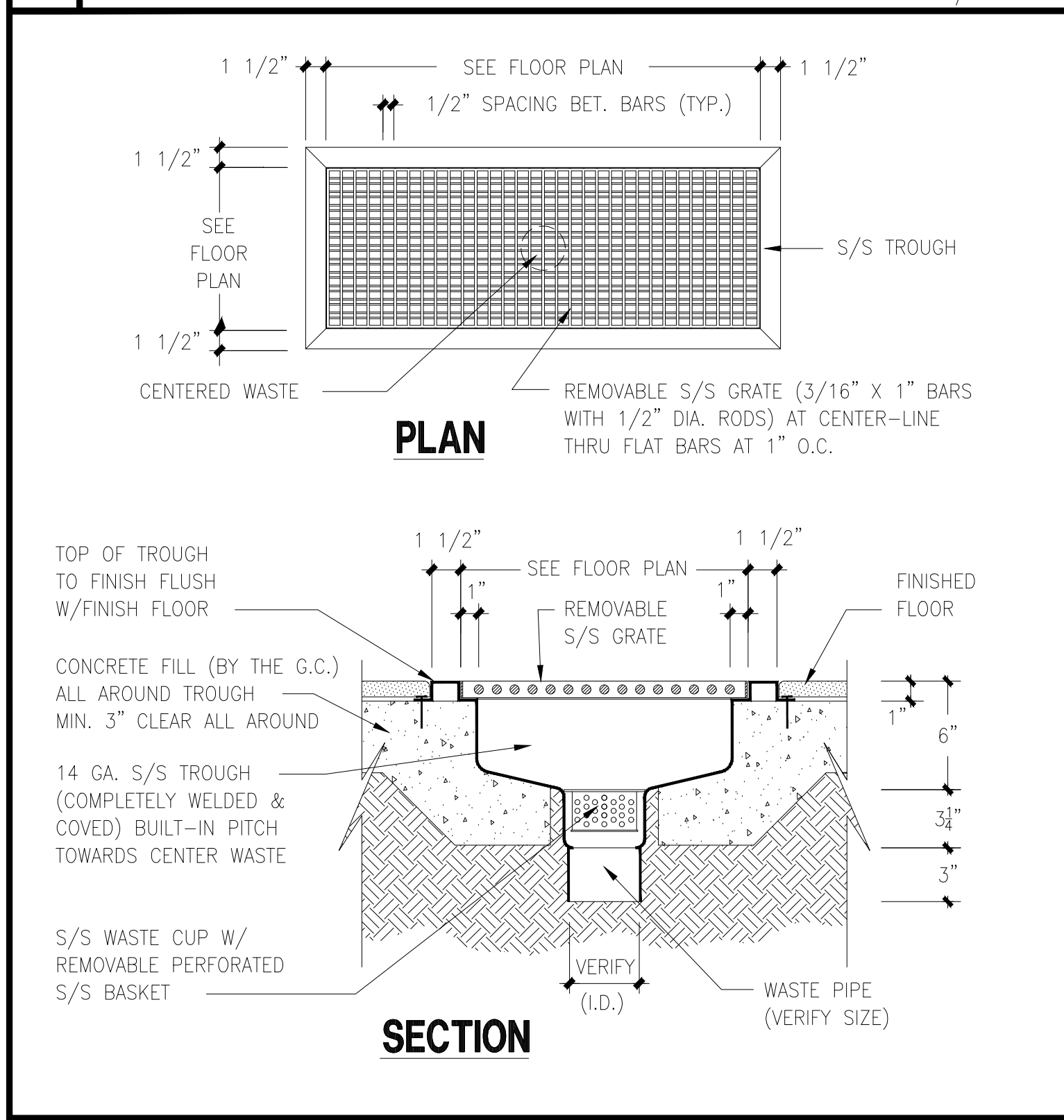
T 30" PREP SINK W/MARINE EDGE SECTION 1 1/2"=1'-0"



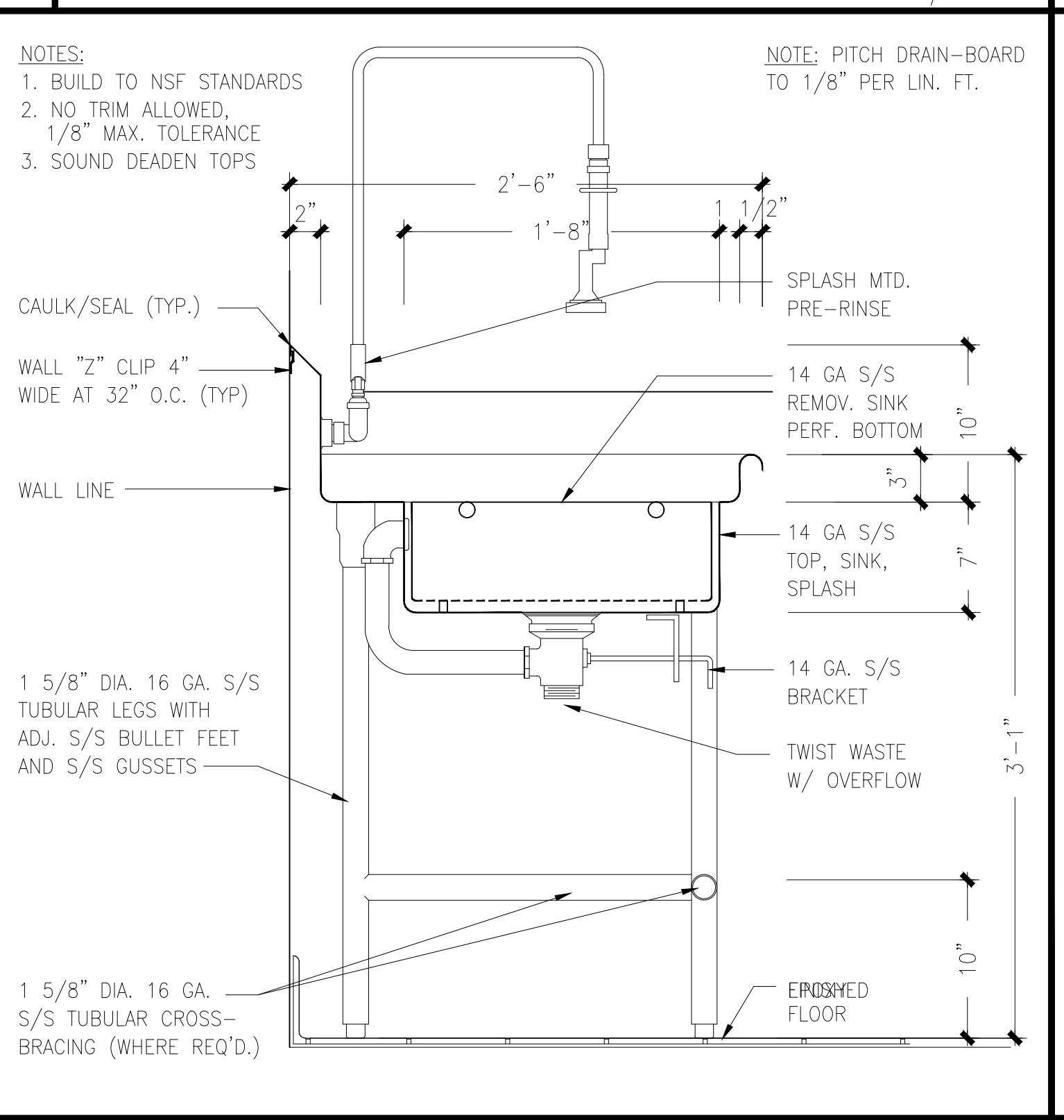
U 30" PREP TABLE W/MARINE EDGE SECTION 1 1/2"=1'-0"



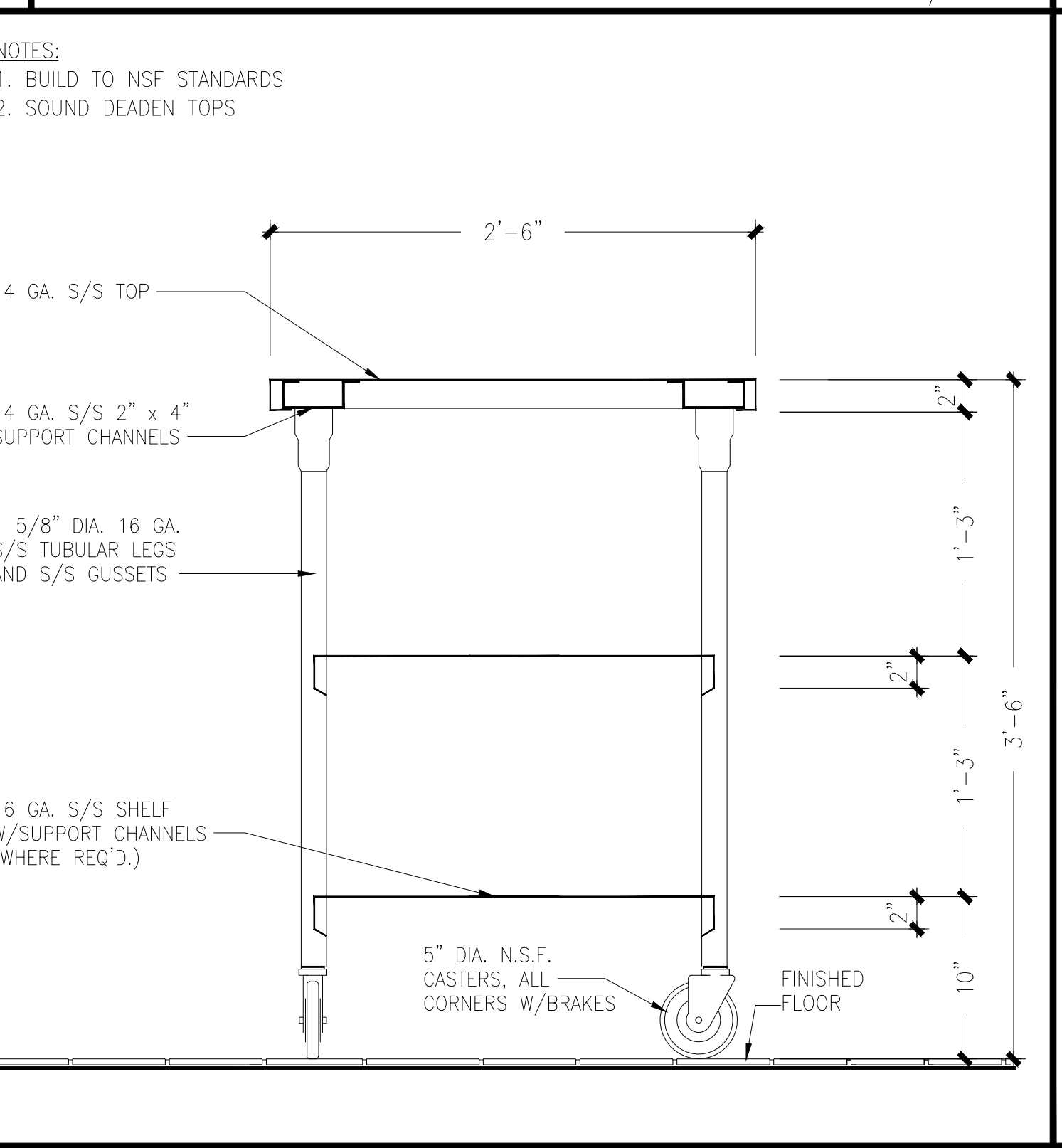
V 30" MOBILE ACCESSIBLE TABLE SECTION 1 1/2"=1'-0"



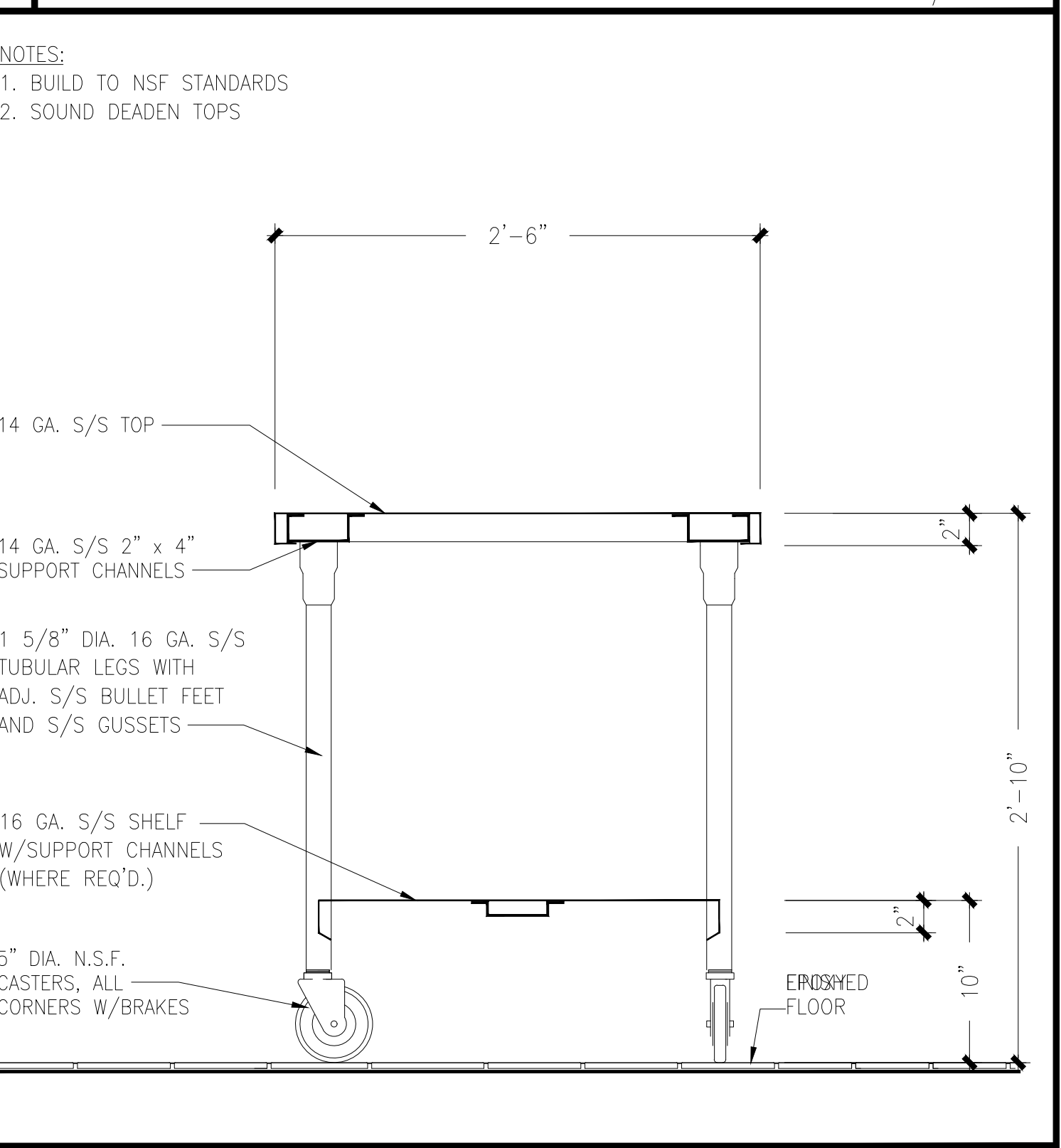
W FLOOR TROUGH W/SUBWAY GRATE DETAIL N.T.S.



X 30" DISHTABLE / SCRAP SINK SECTION N.T.S.

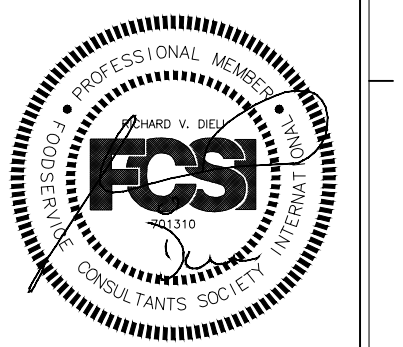


Y 42" HIGH MOBILE TABLE WITH DUAL SHELVES SECTION N.T.S.



Z 30" MOBILE TABLE SECTION 1 1/2"=1'-0"

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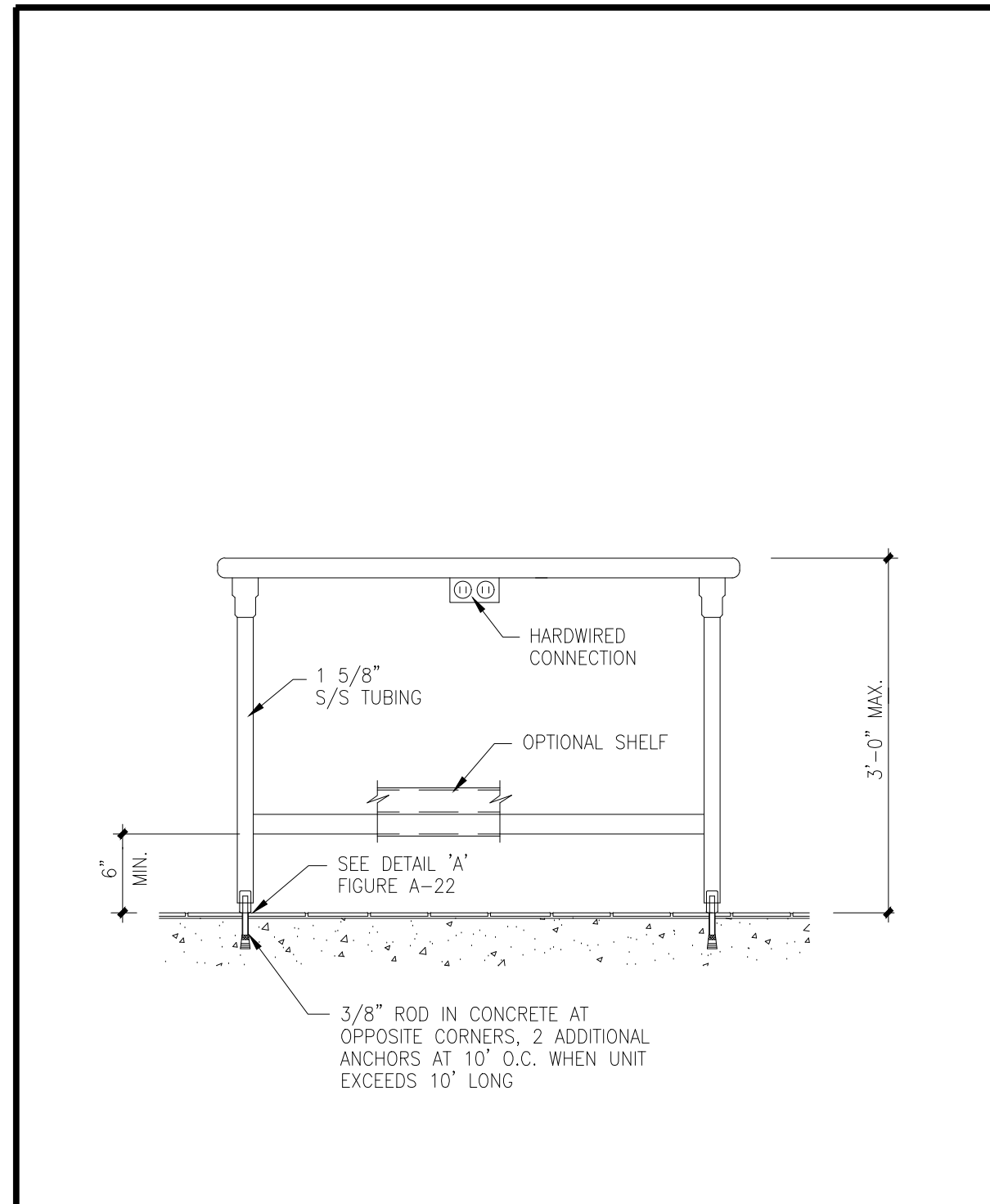
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 760 353 5440 FAX 760 353 5442

Project Title
**CALEXICO UNIFIED SCHOOL DISTRICT
 CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

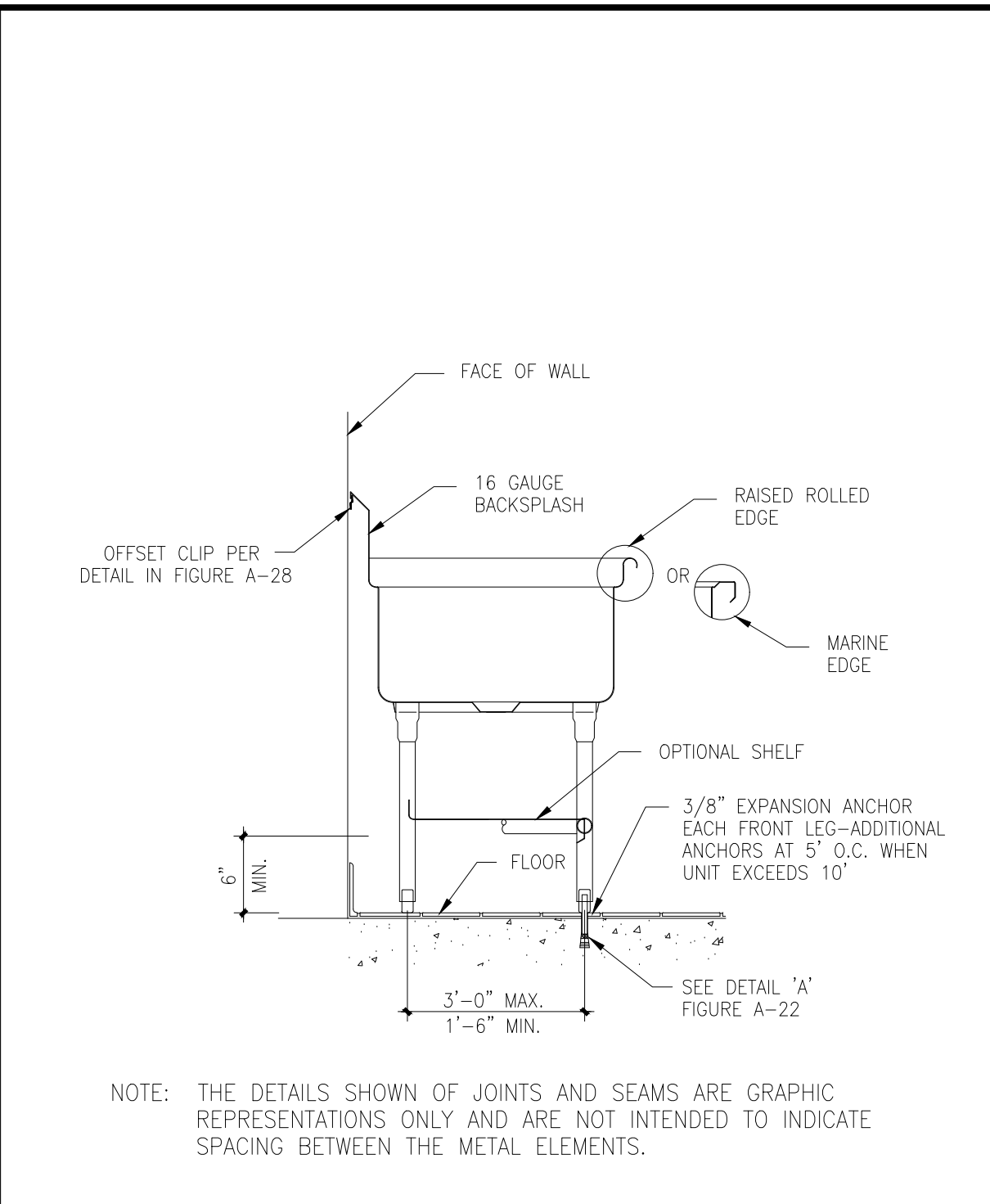
Sheet Title
**FOODSERVICE EQUIPMENT
 DETAILS**

Document Date 09-12-18	Project Number 18-25CX
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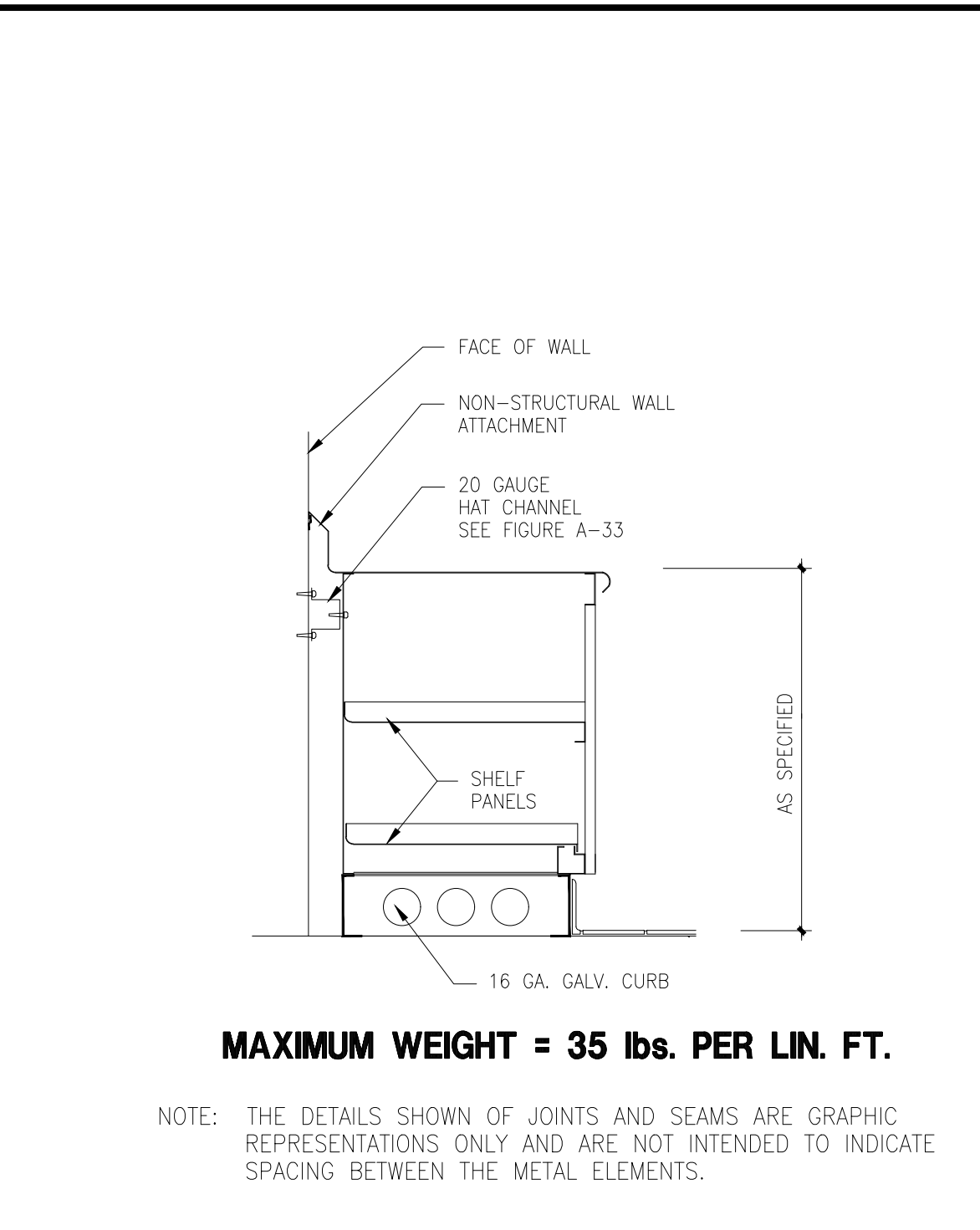




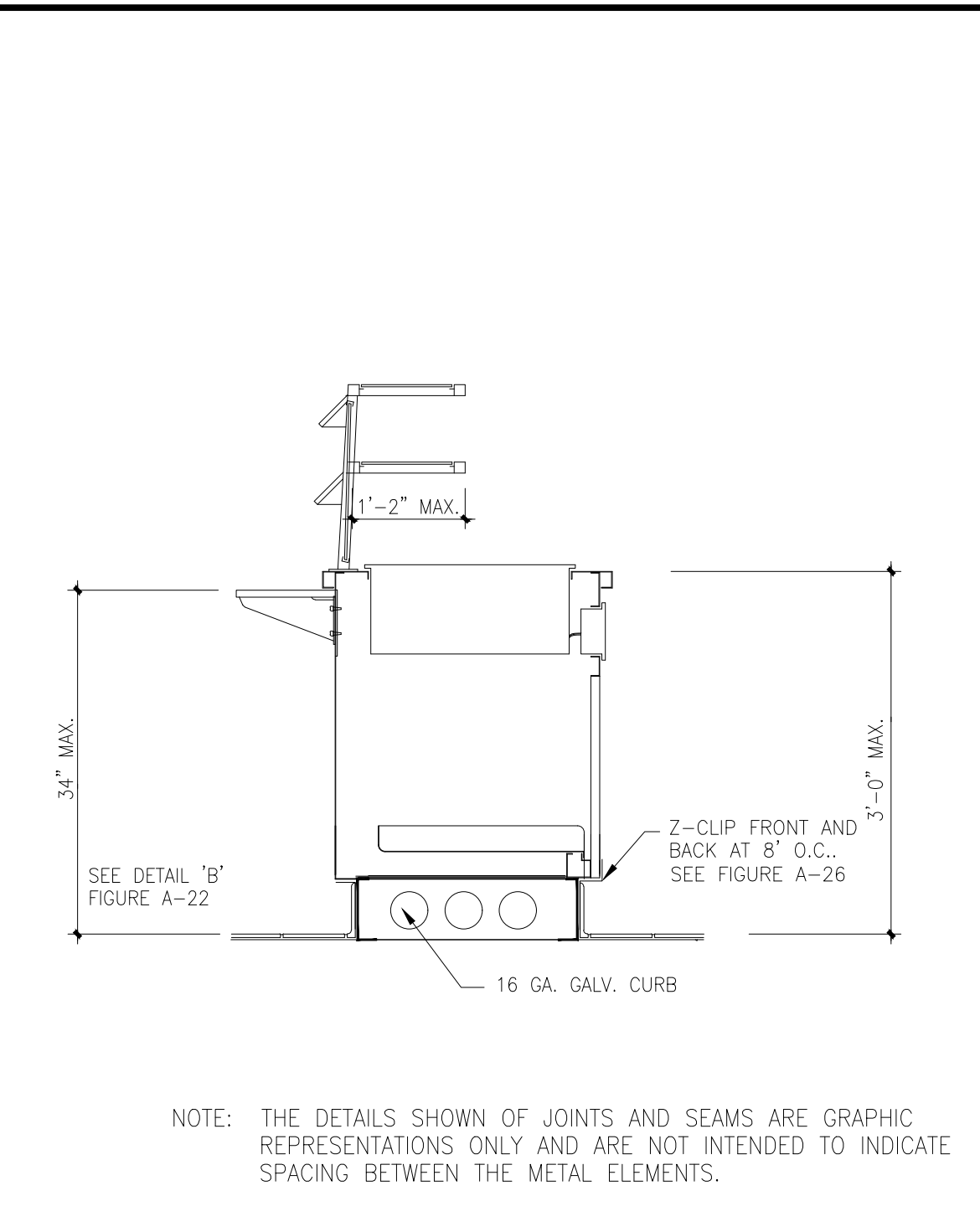
A-1 FIGURE A-1 (FREE STANDING TABLE) N.T.S.



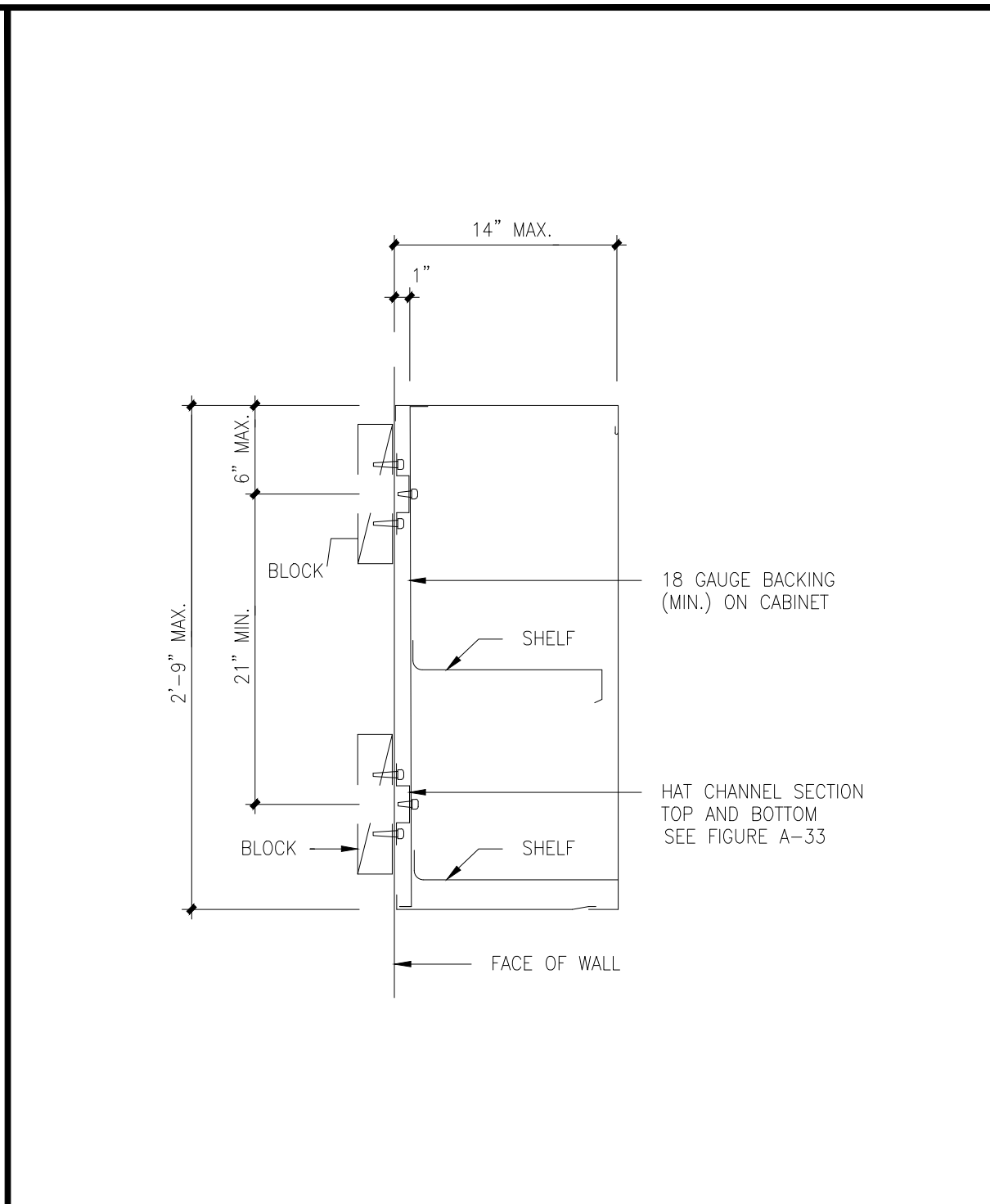
A-2 FIGURE A-2 (WALL ATTACHED SINK, WORKTABLE WITH WALL CLIP) N.T.S.



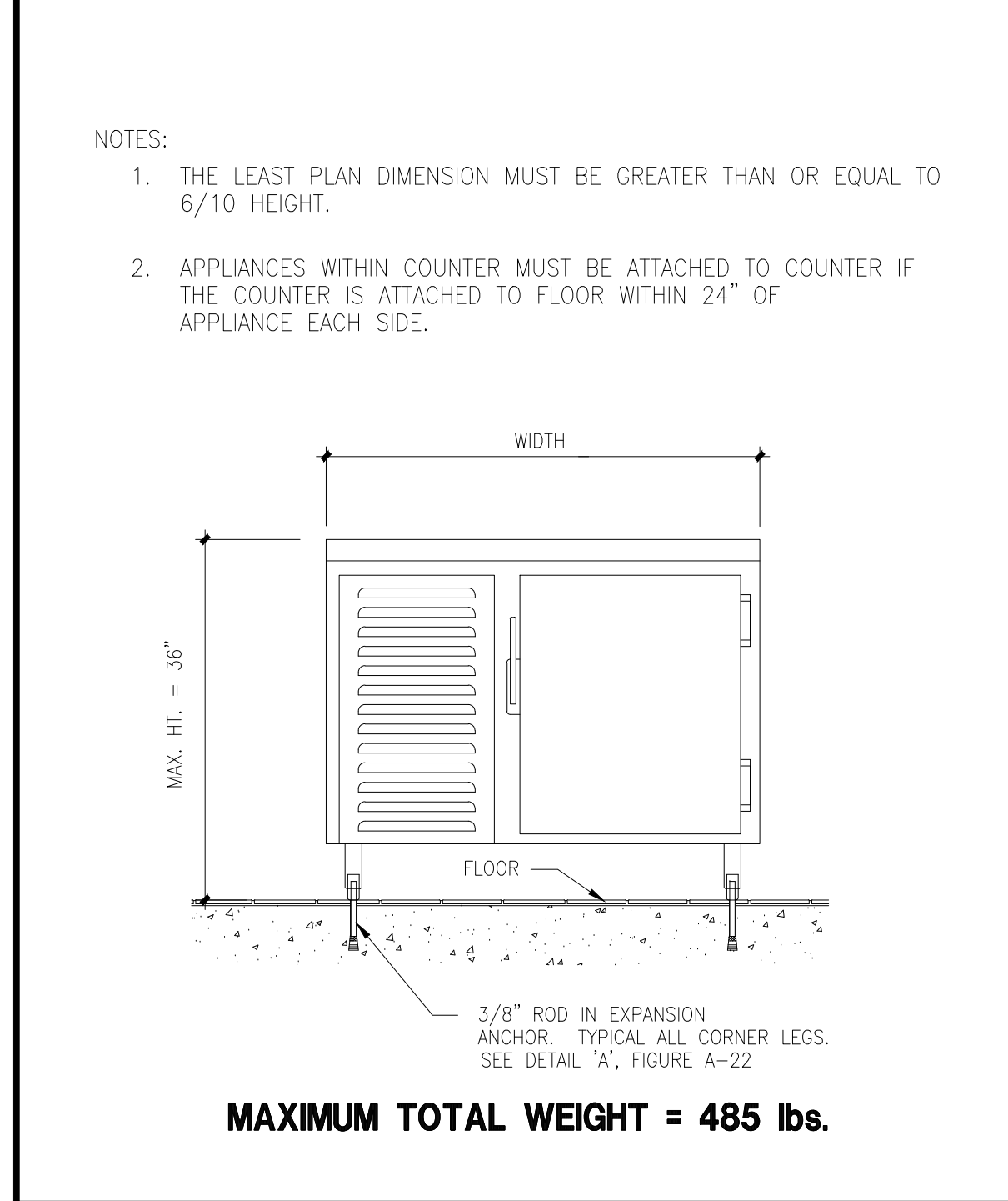
A-4 FIGURE A-4 (ENCLOSED CABINET) N.T.S.



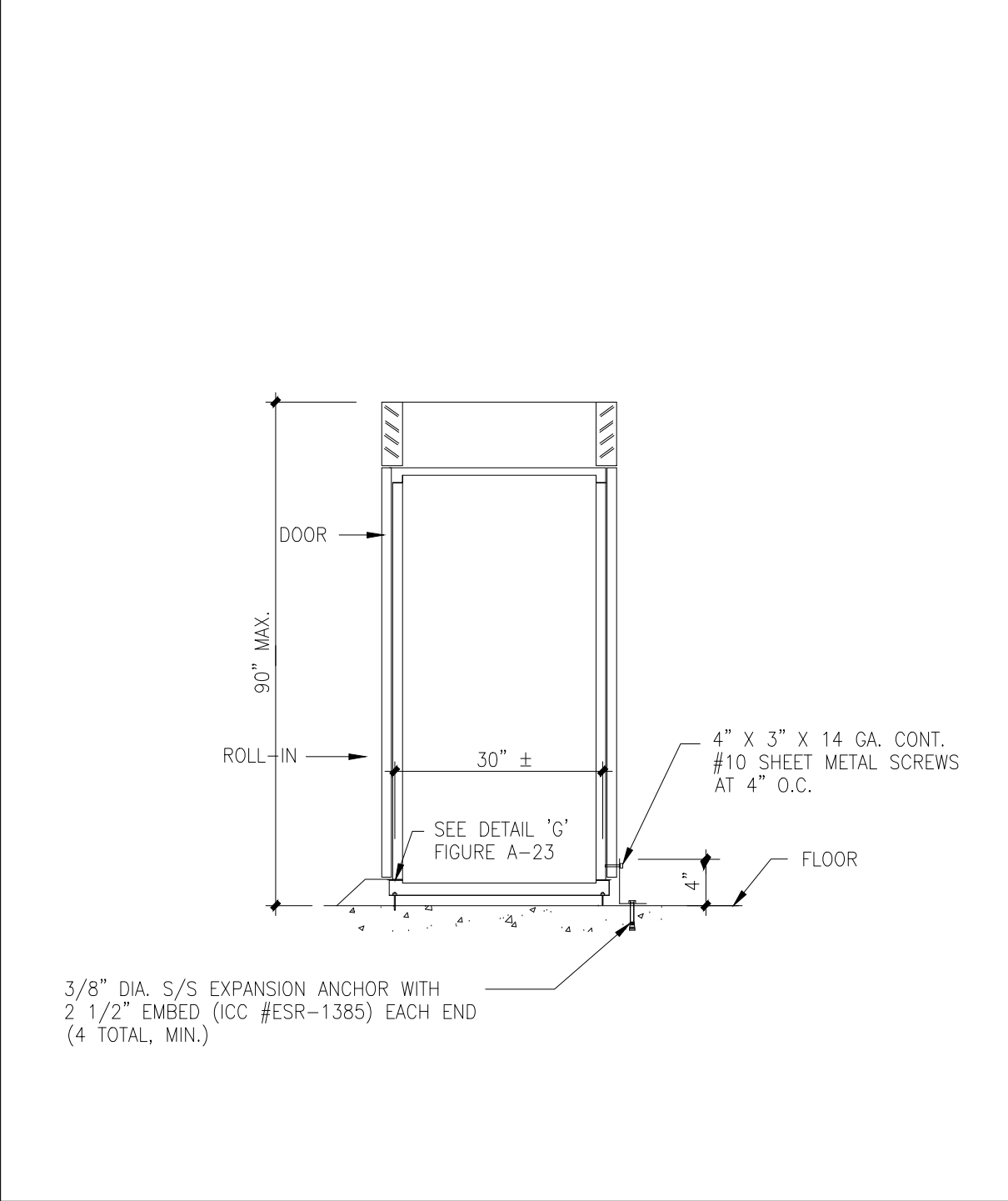
A-5 FIGURE A-5 (ISLAND COUNTER) N.T.S.



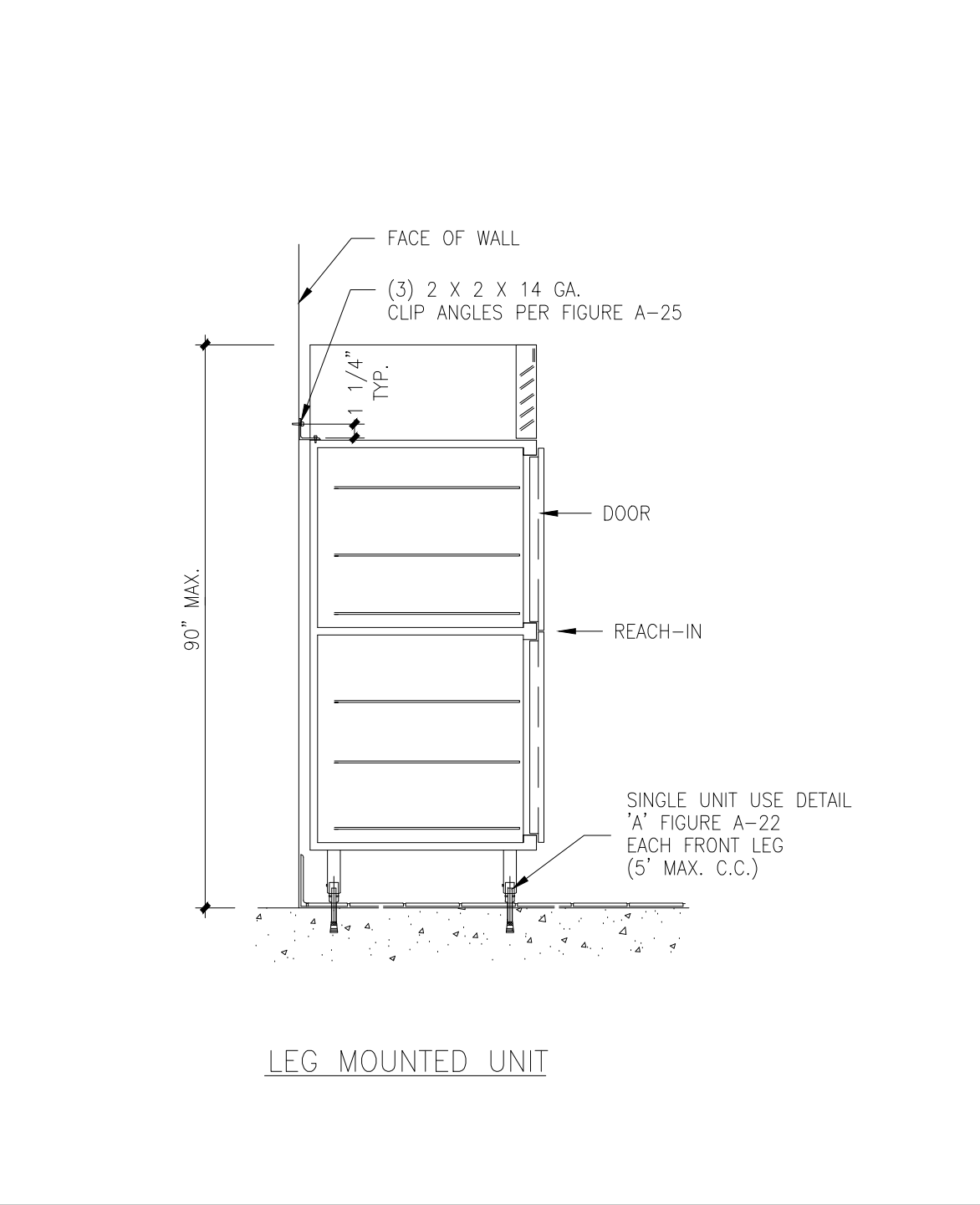
A-6 FIGURE A-6 (WALL CABINET) N.T.S.



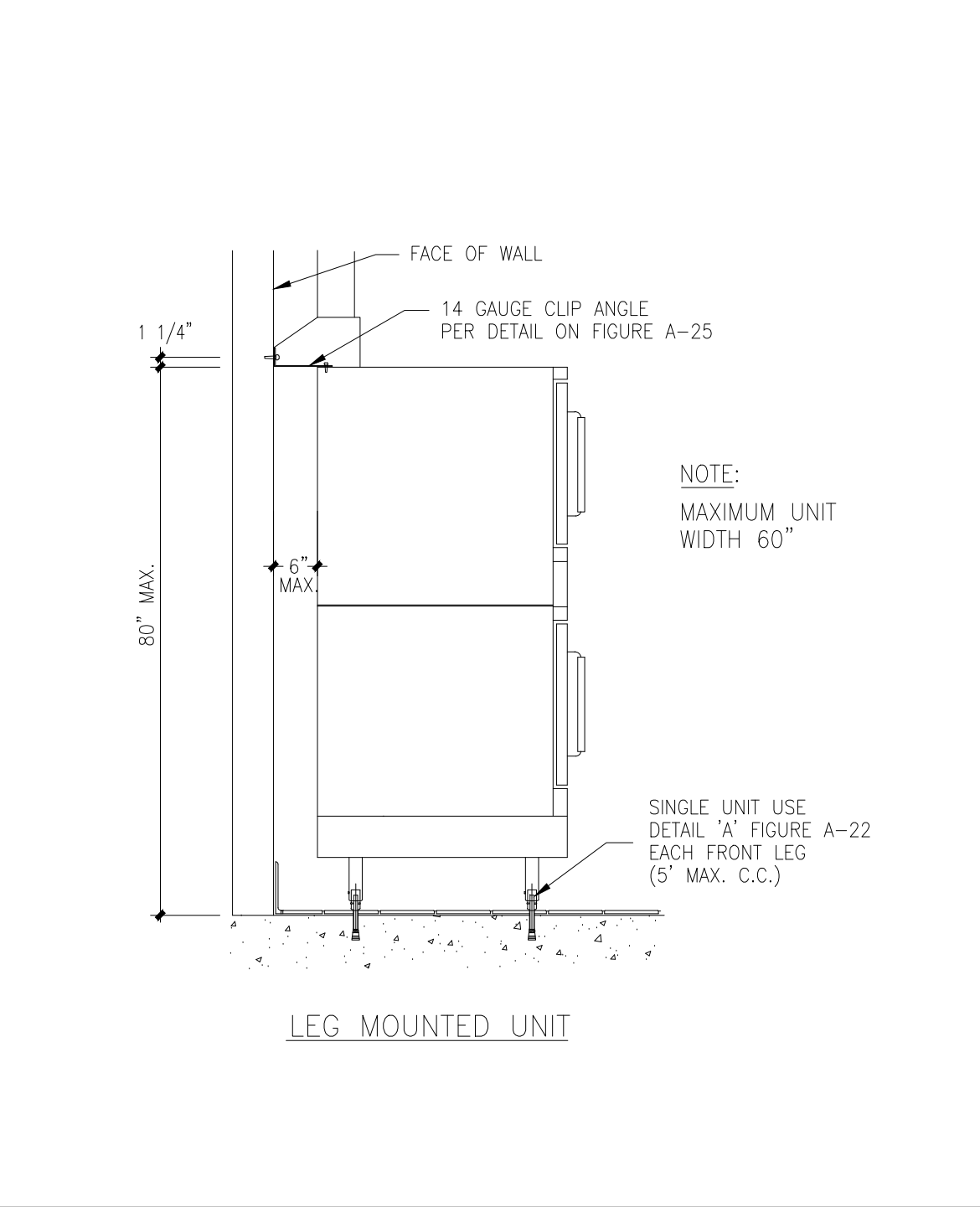
A-7 FIGURE A-7 (FLOOR MOUNTED APPLIANCE) N.T.S.



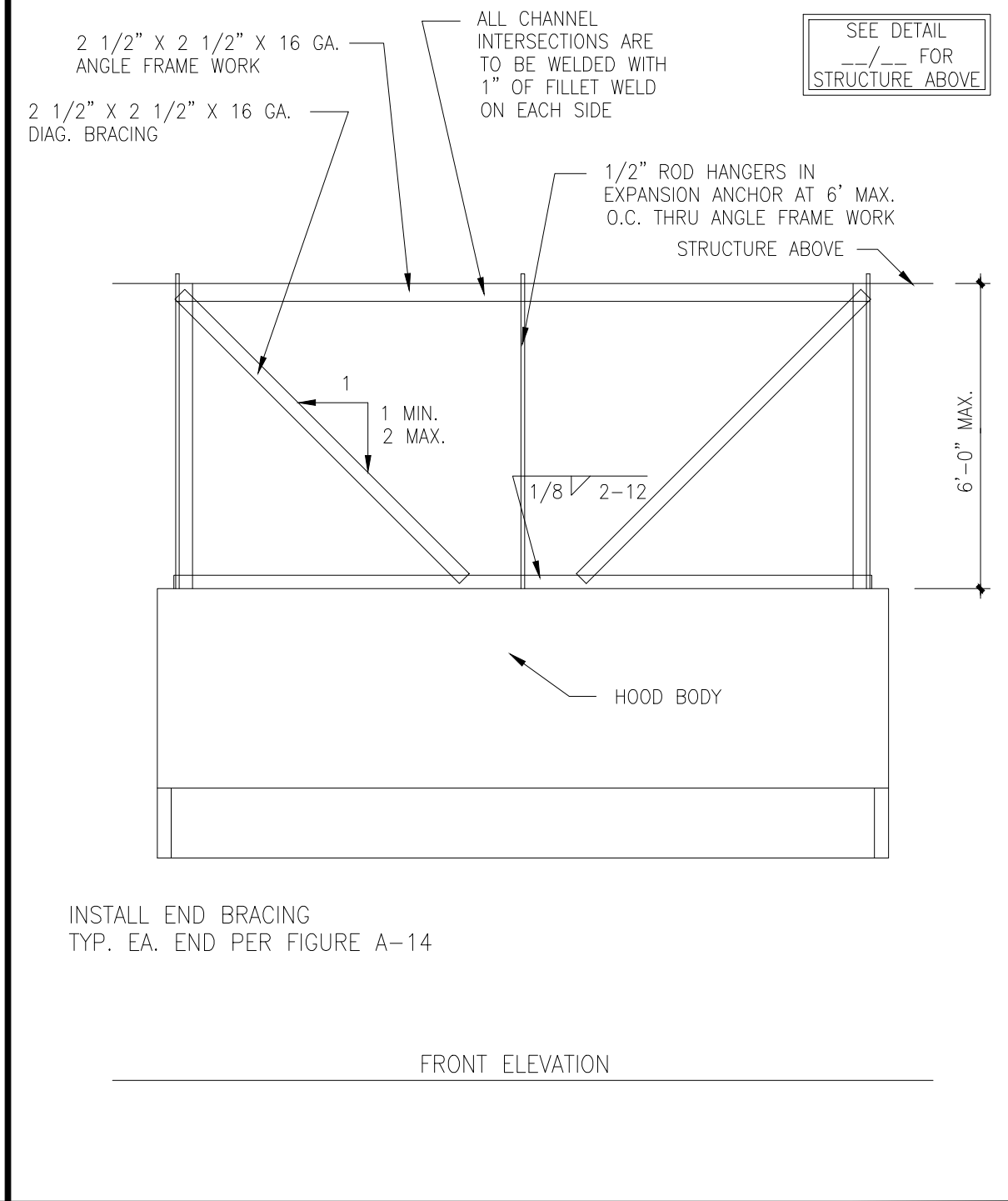
A-9 FIGURE A-9 (ROLL-IN FLOOR MOUNTED APPLIANCES) N.T.S.



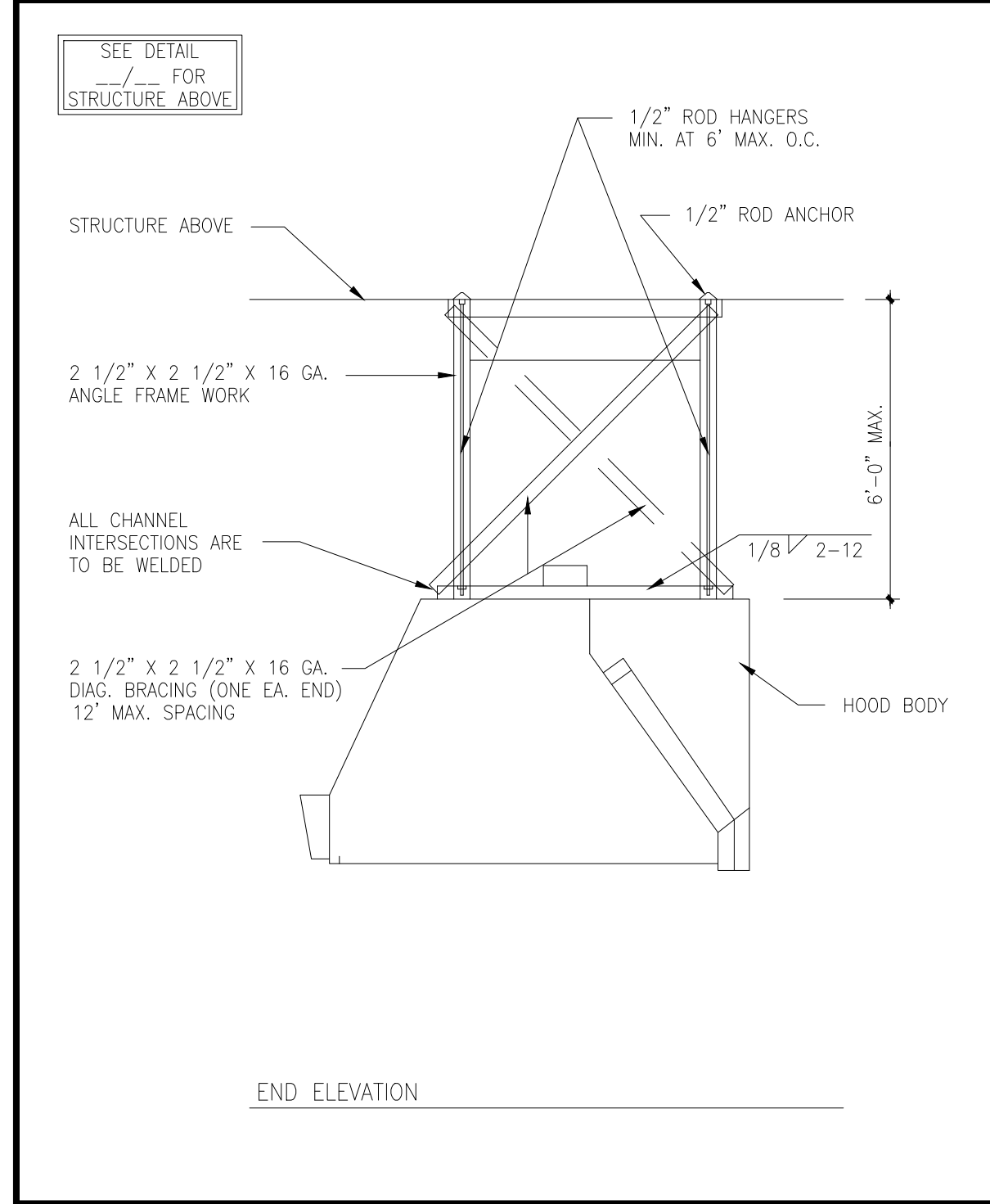
A-10 FIGURE A-10 (FLOOR MOUNTED APPLIANCE AGAINST WALL) N.T.S.



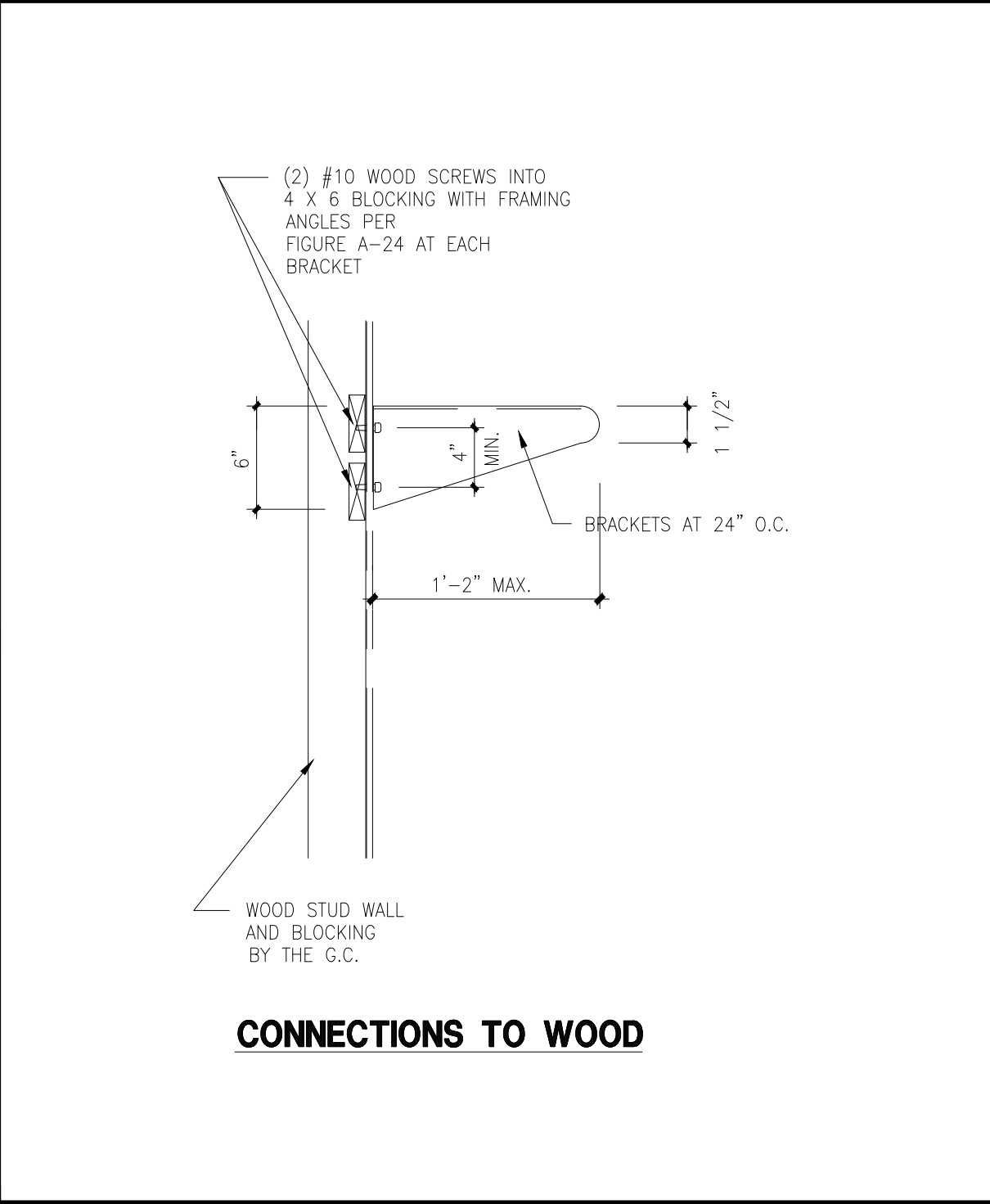
A-11 FIGURE A-11 (FLOOR MOUNTED APPLIANCE AGAINST WALL) N.T.S.



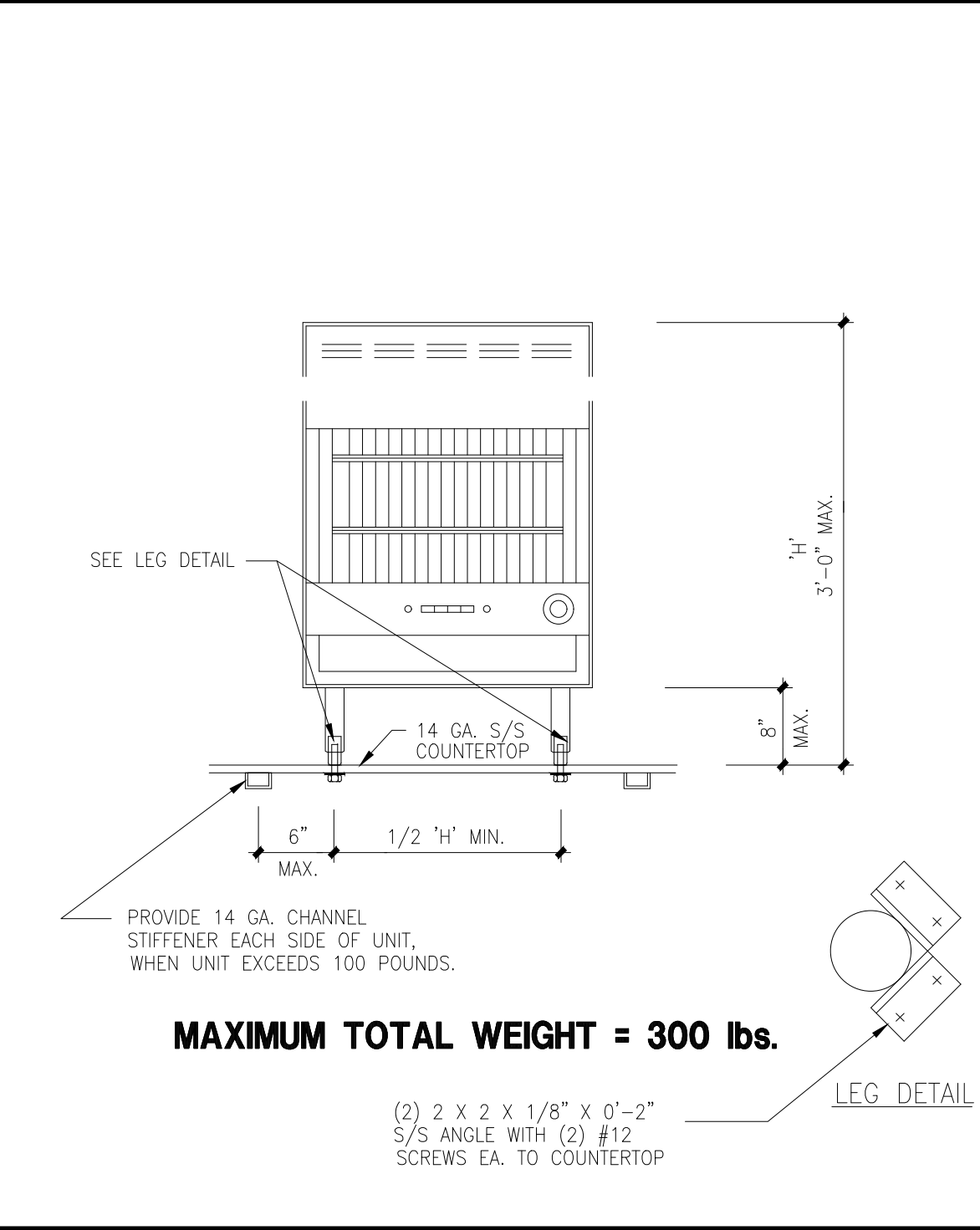
A-13 FIGURE A-13 (HOOD BRACING) N.T.S.



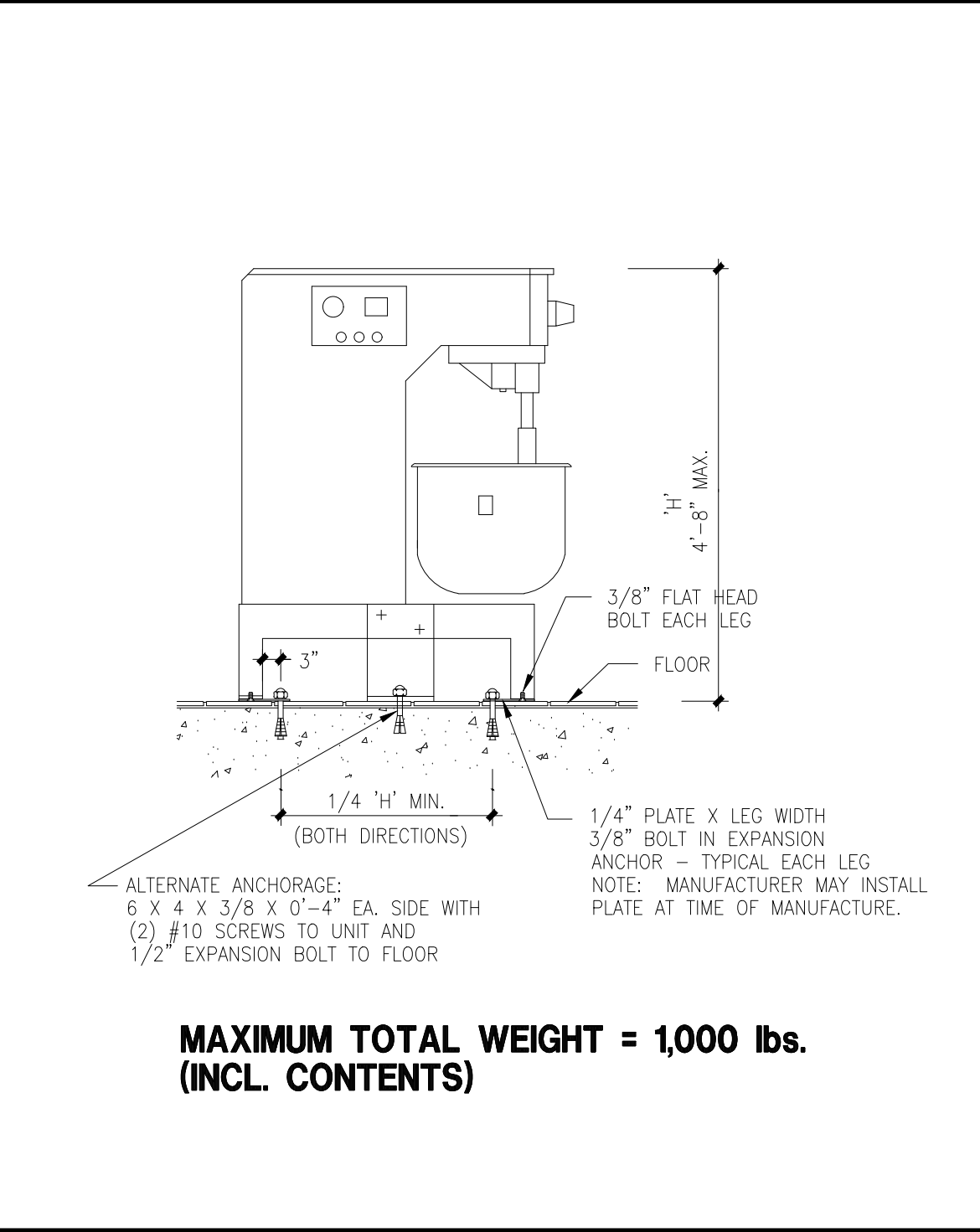
A-14 FIGURE A-14 (HOOD DETAIL) N.T.S.



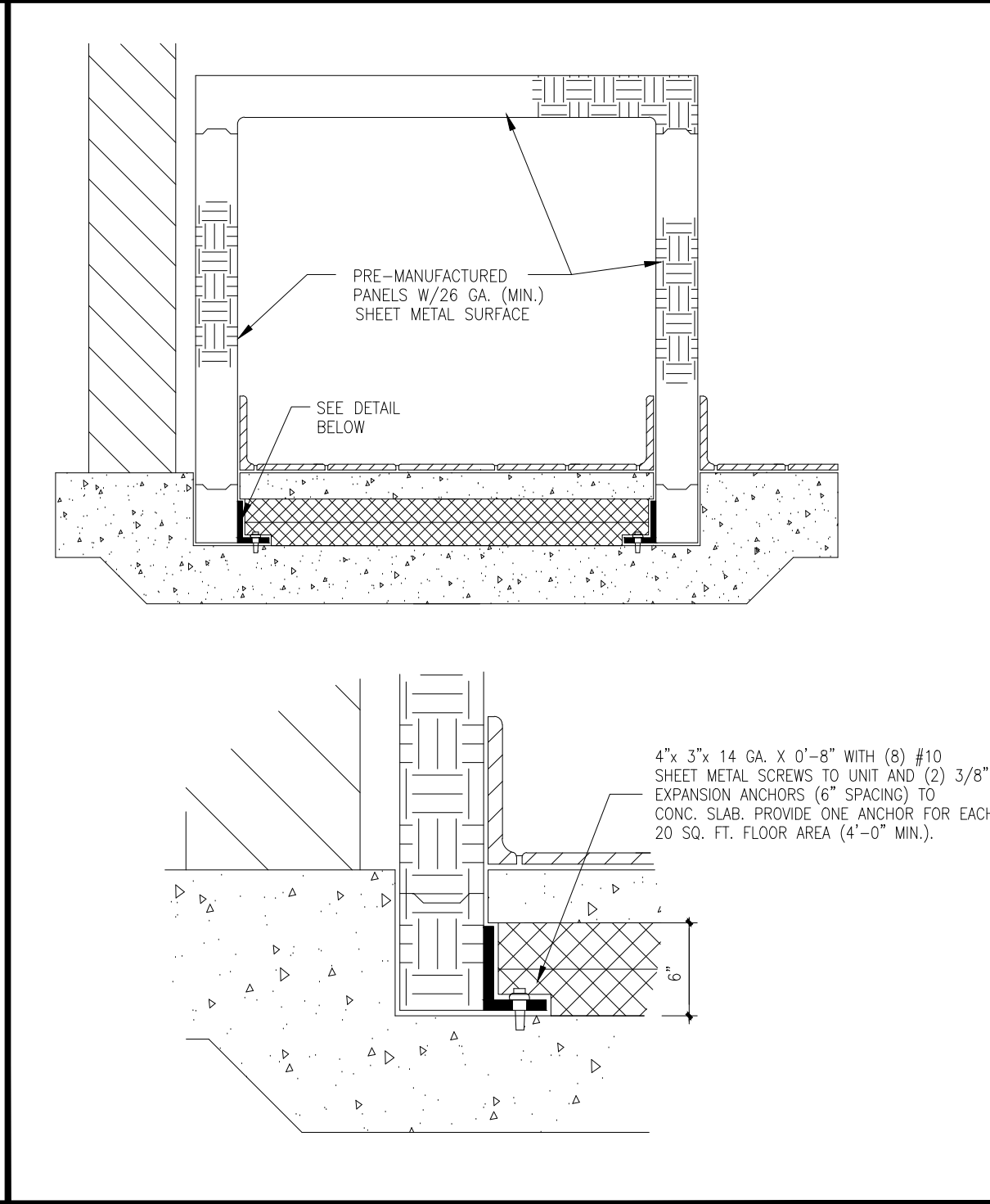
A-17 FIGURE A-17 (WALL MOUNTED SHELVES) N.T.S.



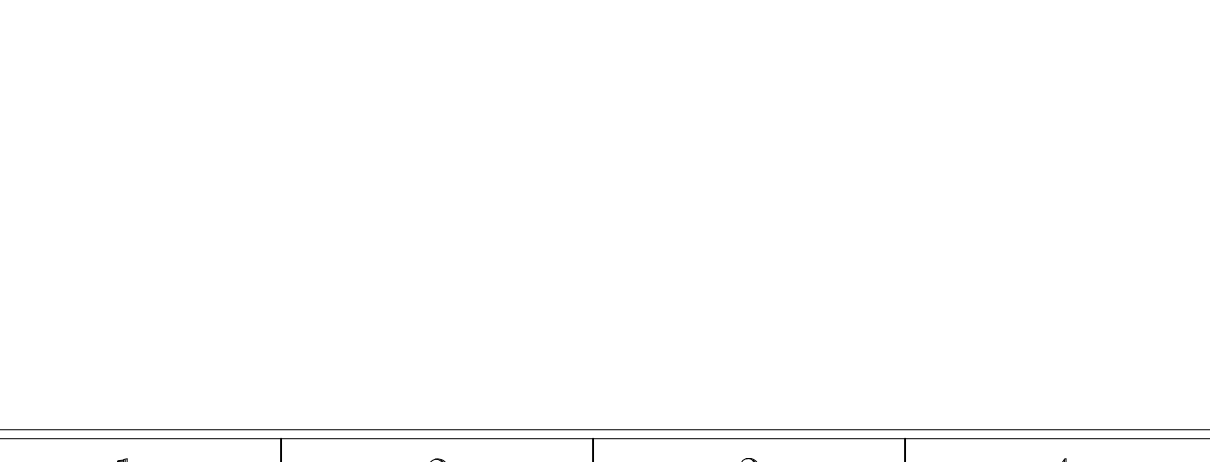
A-18 FIGURE A-18 (COUNTERTOP EQUIPMENT) N.T.S.



A-19 FIGURE A-19 (FLOOR MOUNTED MIXER) N.T.S.



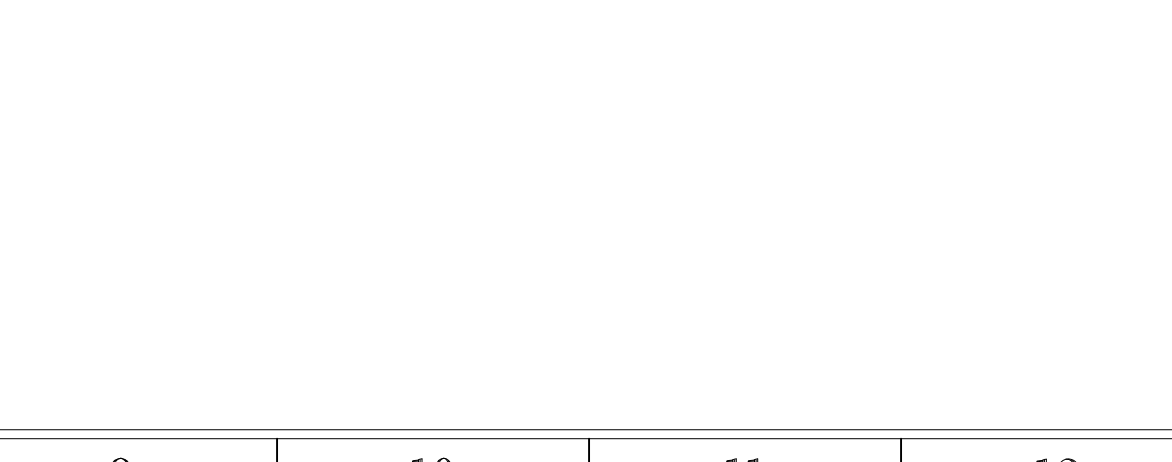
A-20 FIGURE A-20 (WALK-IN BOXES - SCHOOLS) N.T.S.



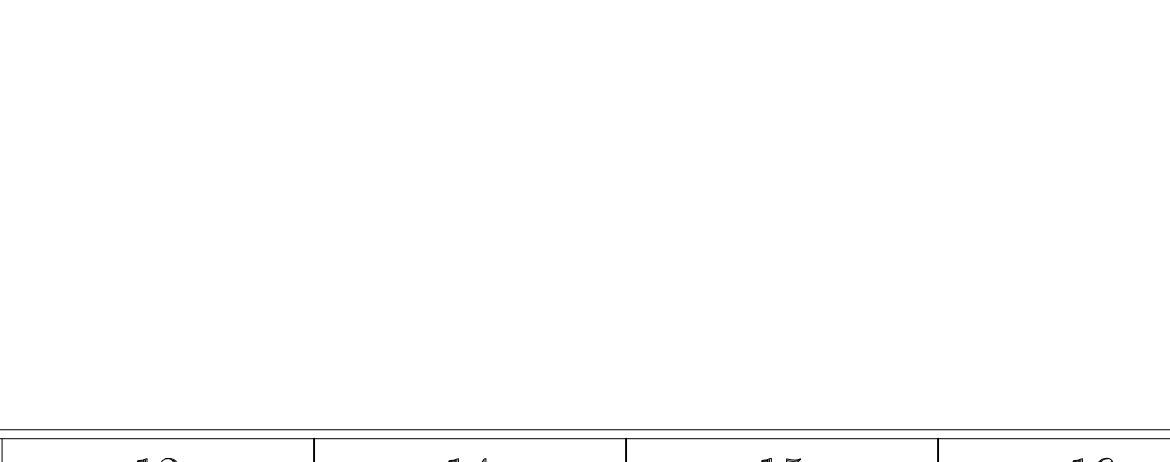
A-14 FIGURE A-14 (HOOD DETAIL) N.T.S.



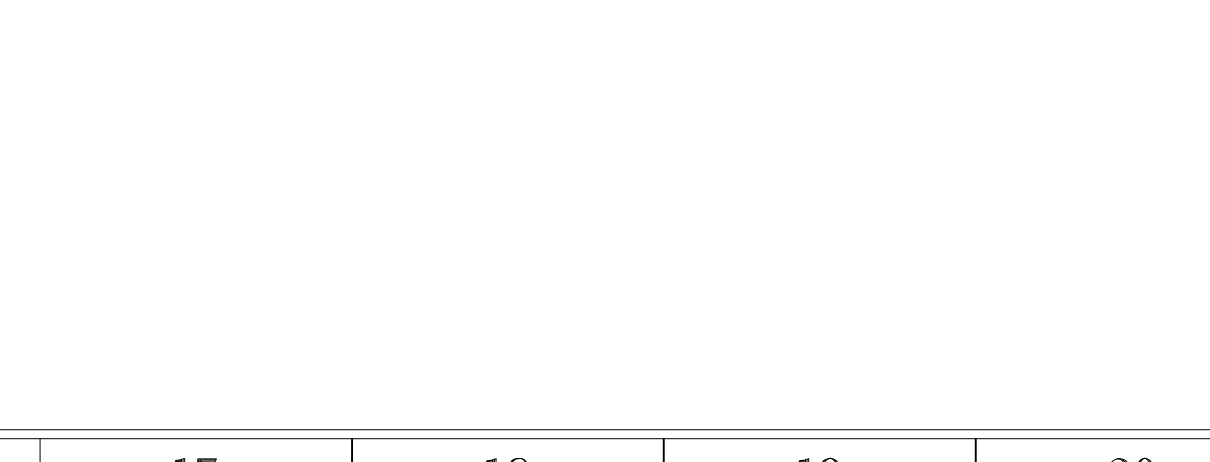
A-17 FIGURE A-17 (WALL MOUNTED SHELVES) N.T.S.



A-18 FIGURE A-18 (COUNTERTOP EQUIPMENT) N.T.S.



A-19 FIGURE A-19 (FLOOR MOUNTED MIXER) N.T.S.



A-20 FIGURE A-20 (WALK-IN BOXES - SCHOOLS) N.T.S.

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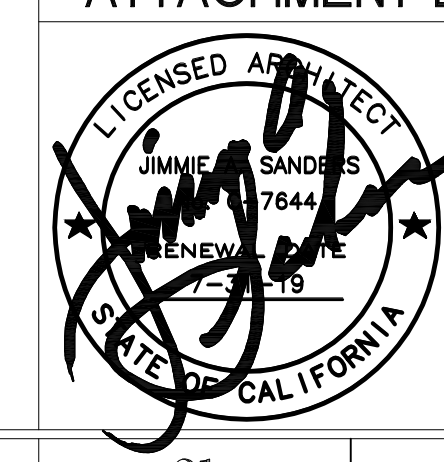
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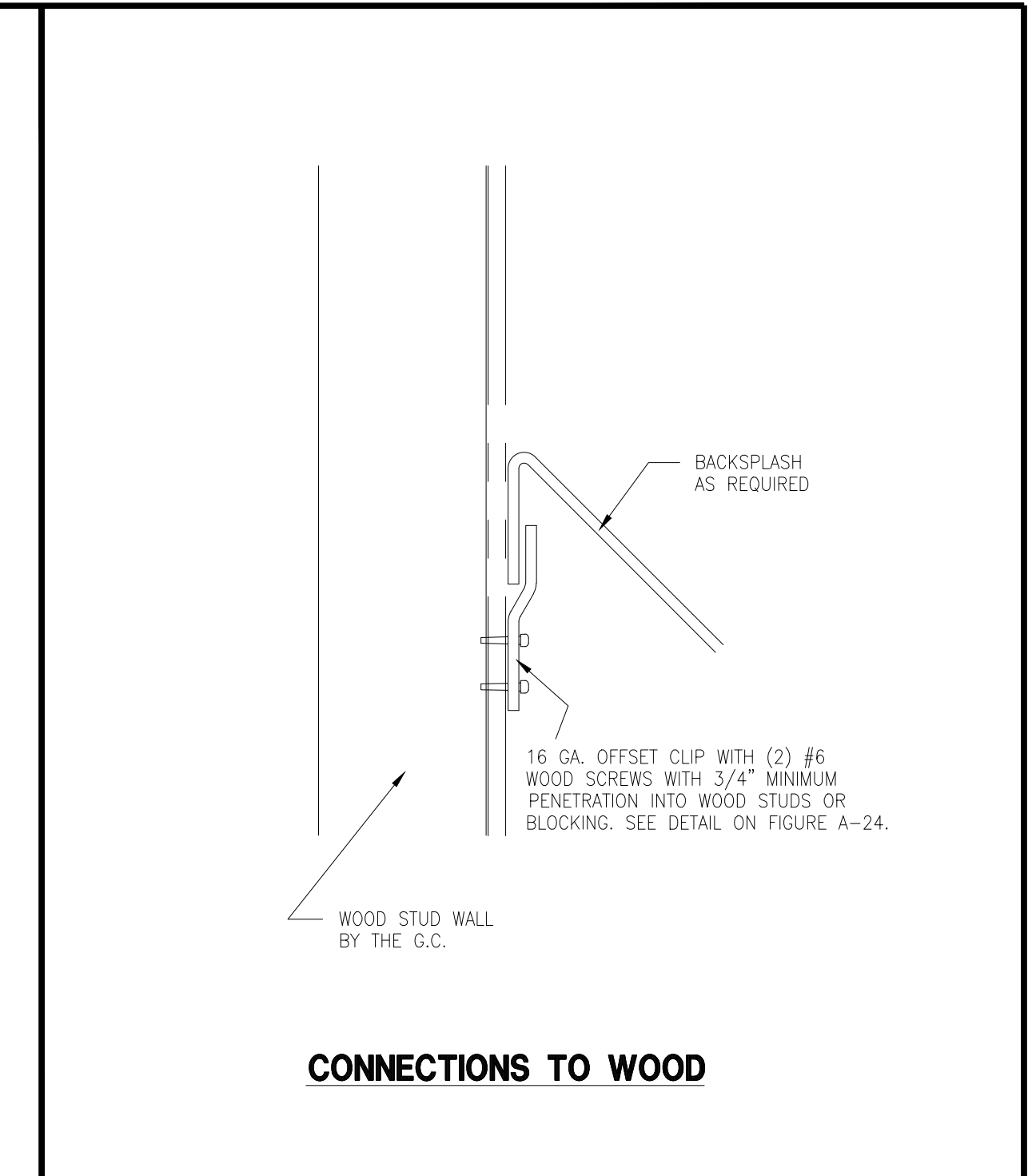
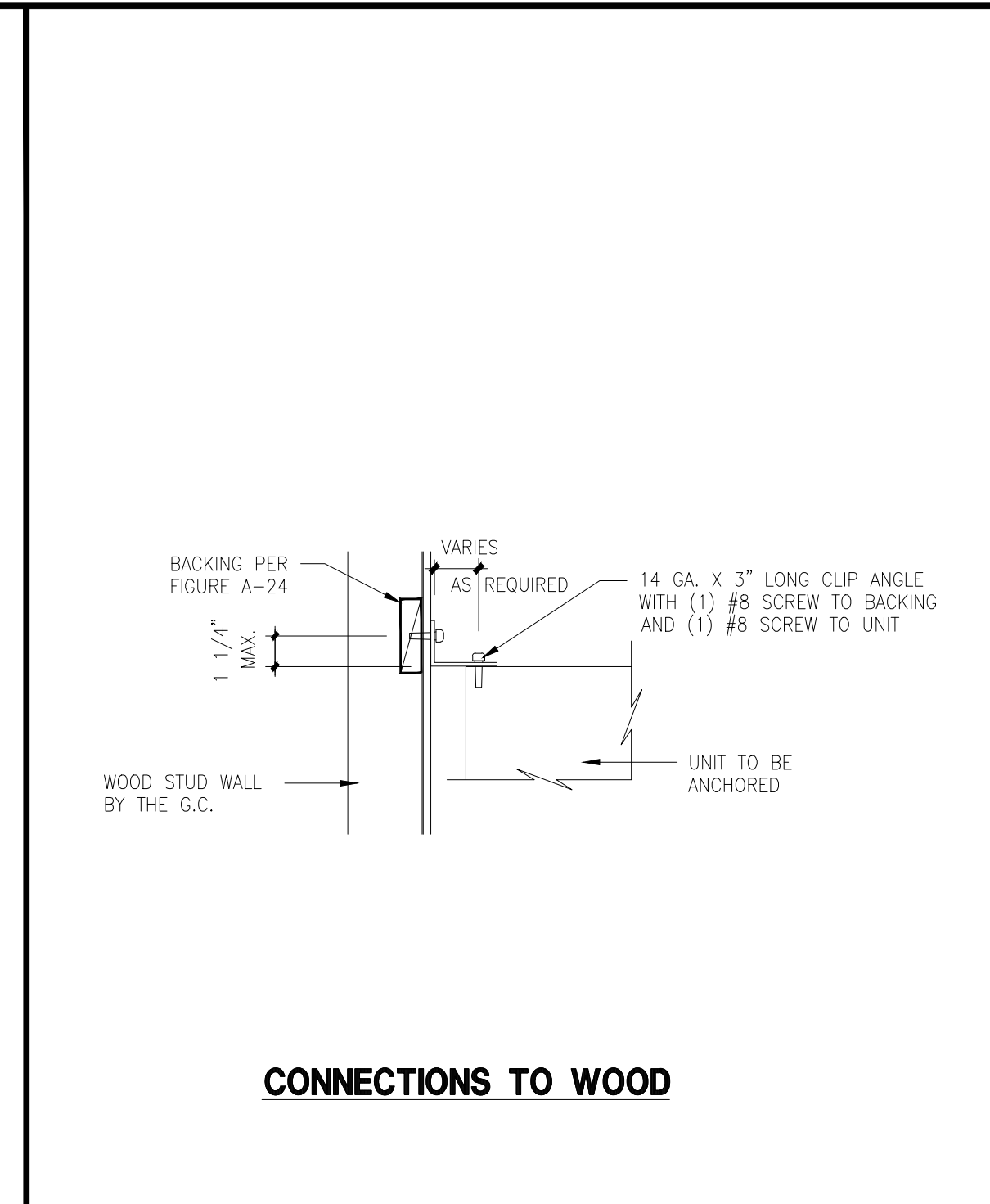
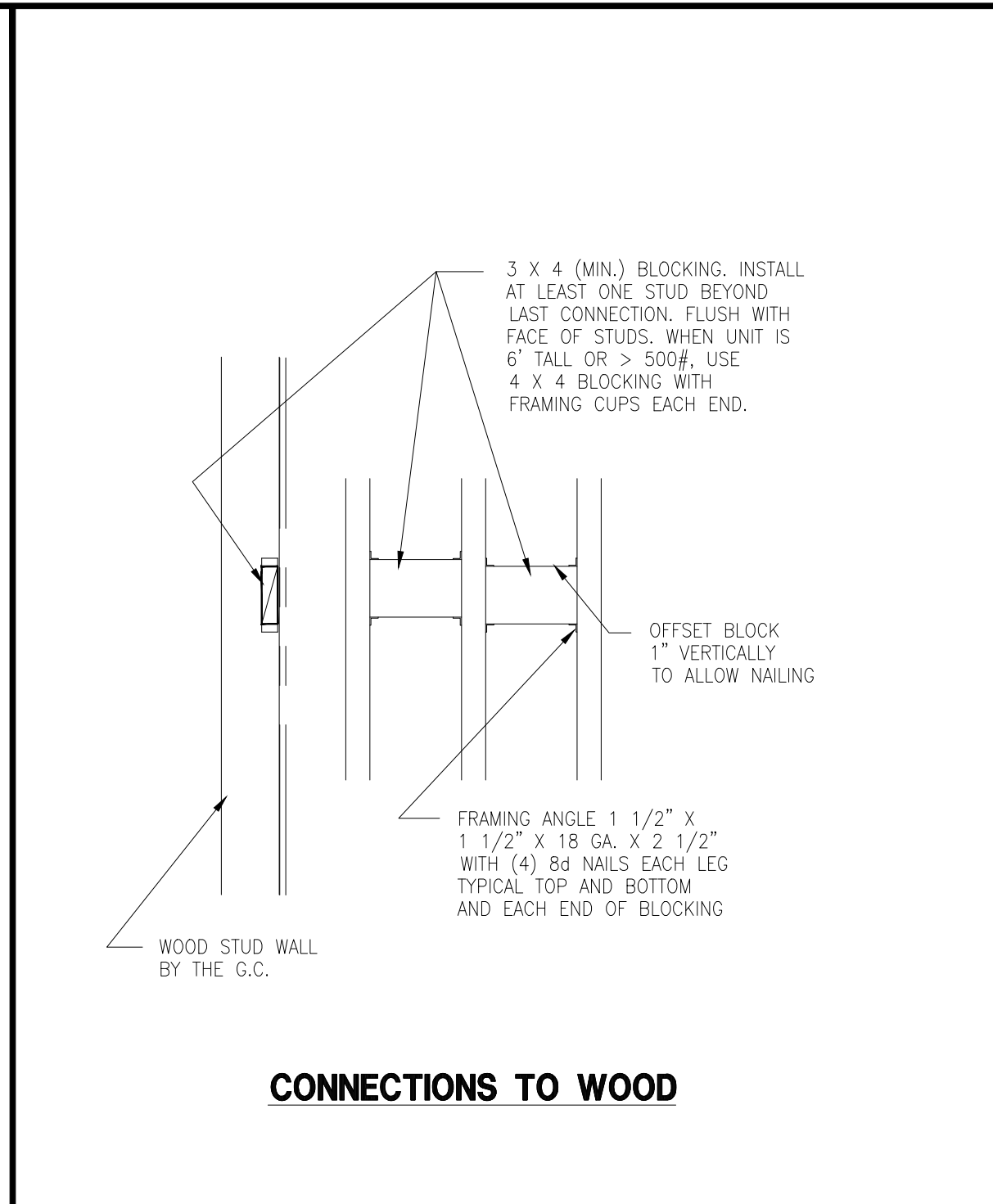
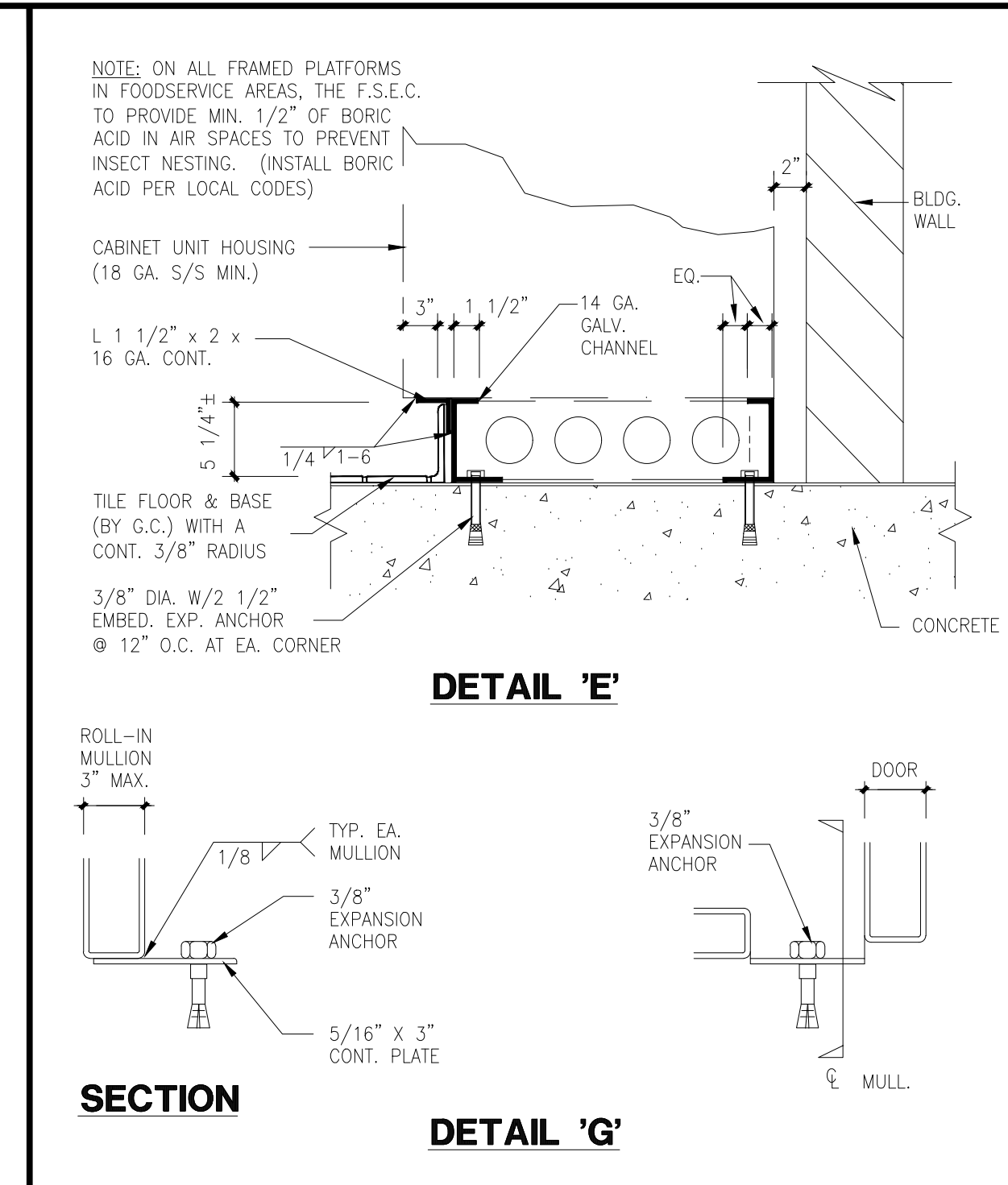
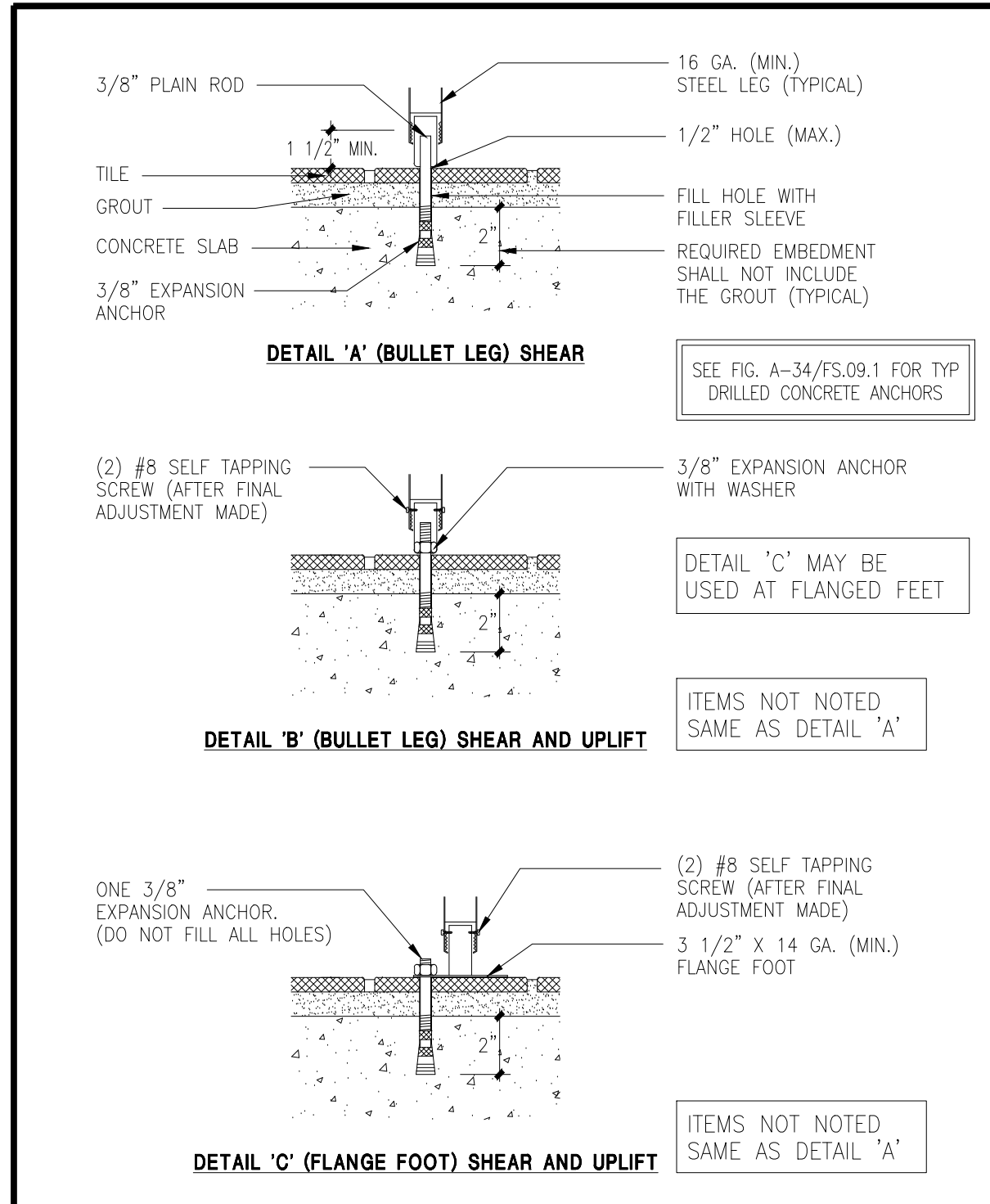
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Project Title
**CALEXICO UNIFIED SCHOOL DISTRICT
 CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
**FOODSERVICE EQUIPMENT
 ATTACHMENT DETAILS**

Document Date: 09-12-18
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 Sheet Number: FS.09.0





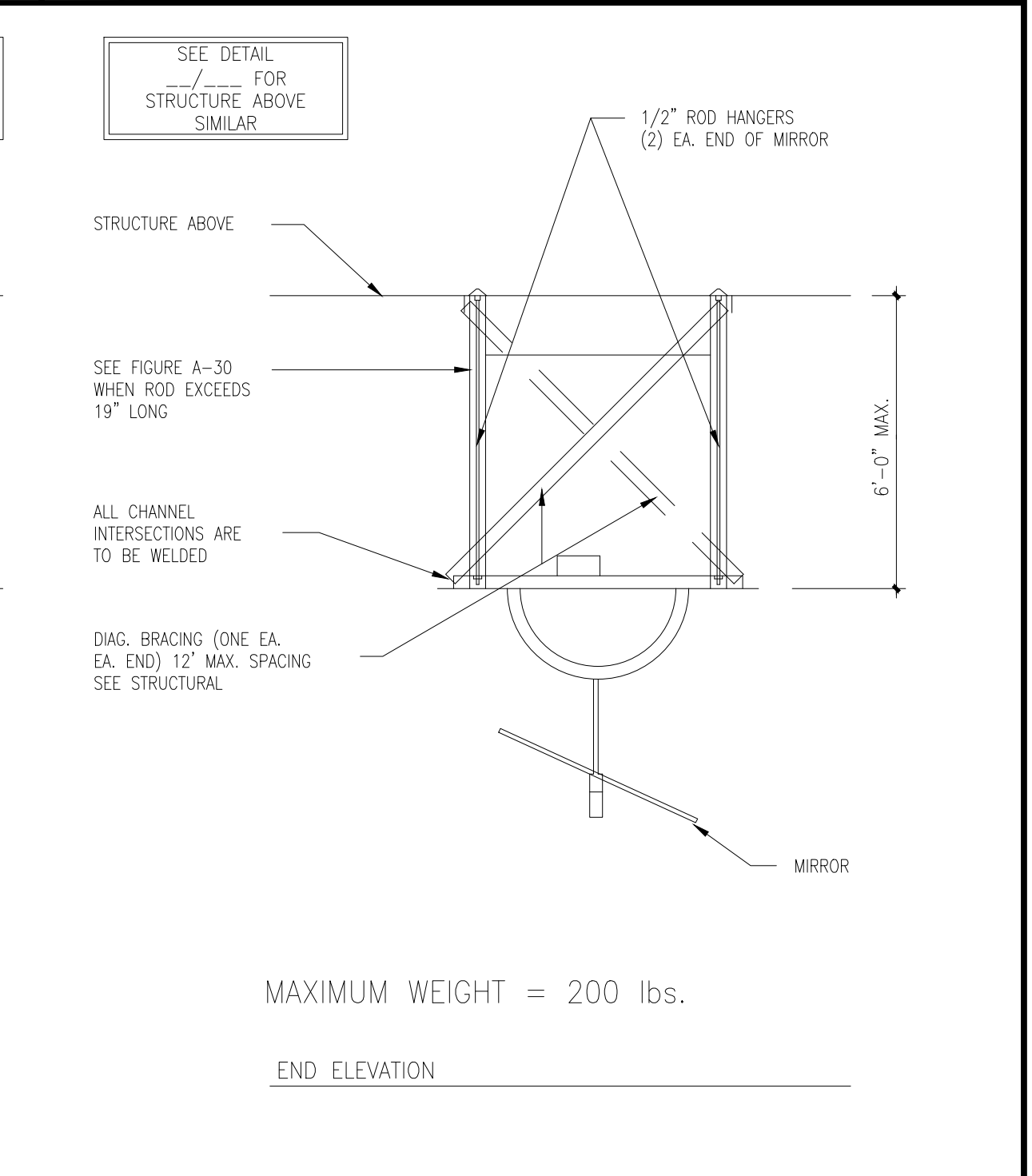
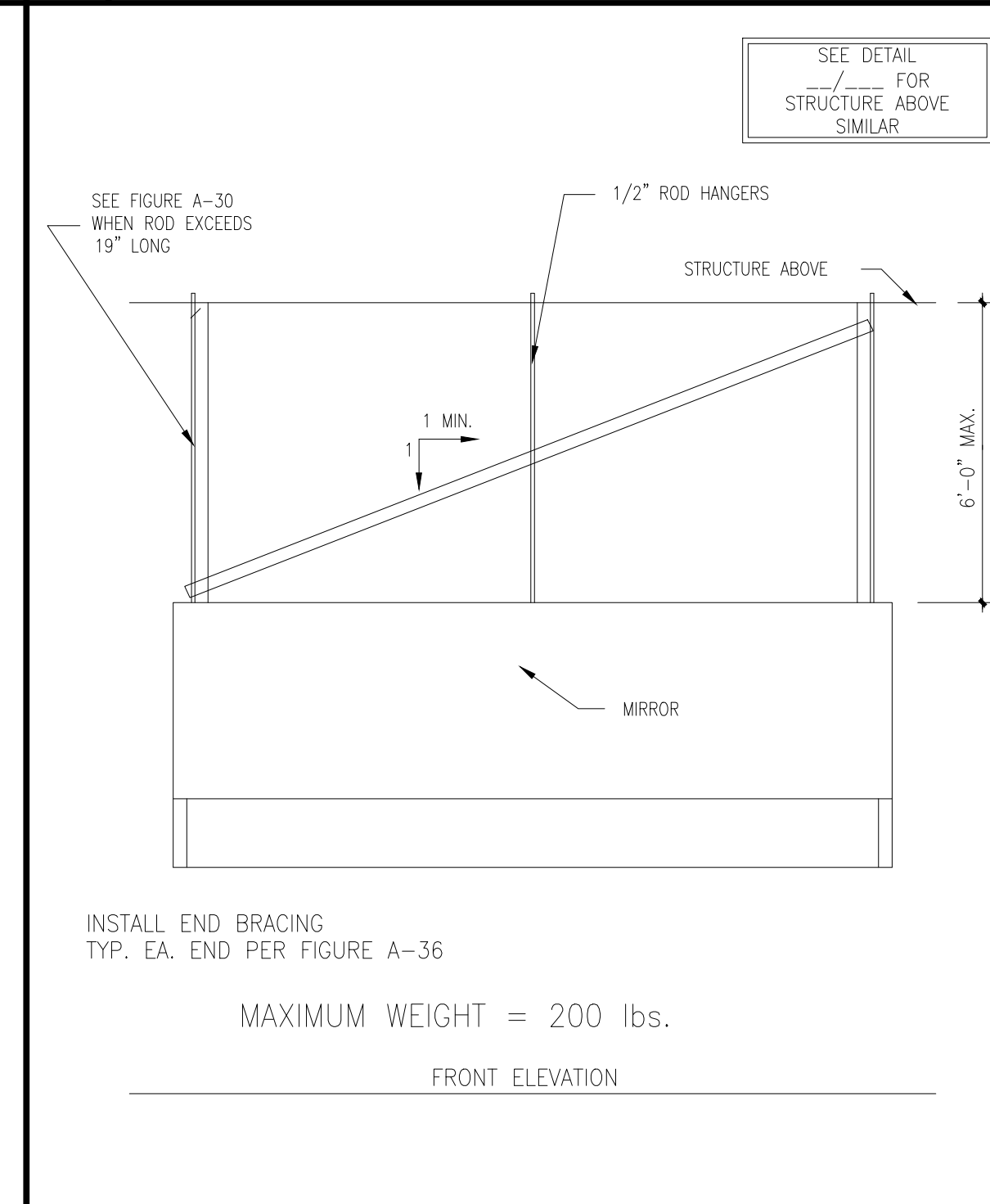
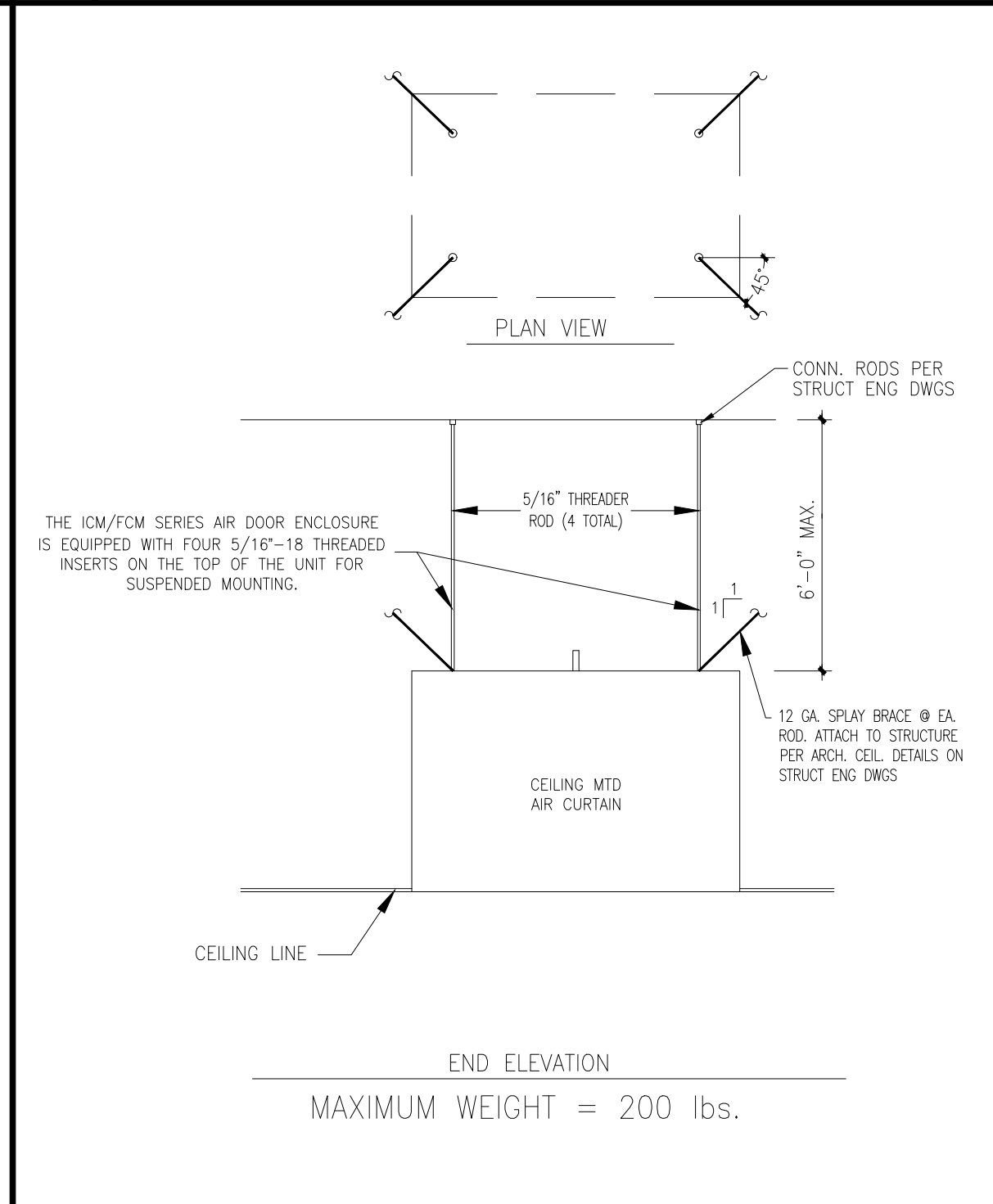
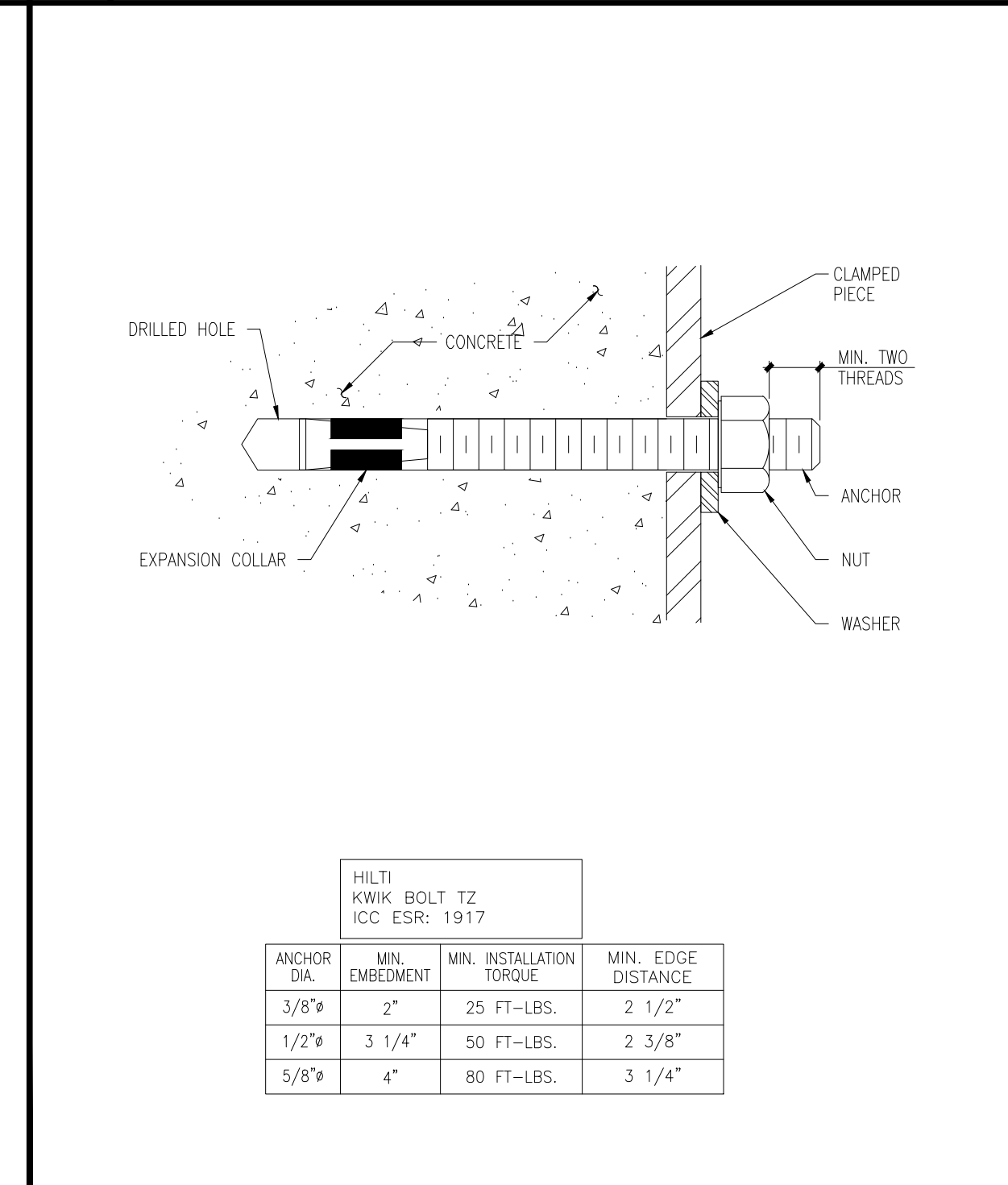
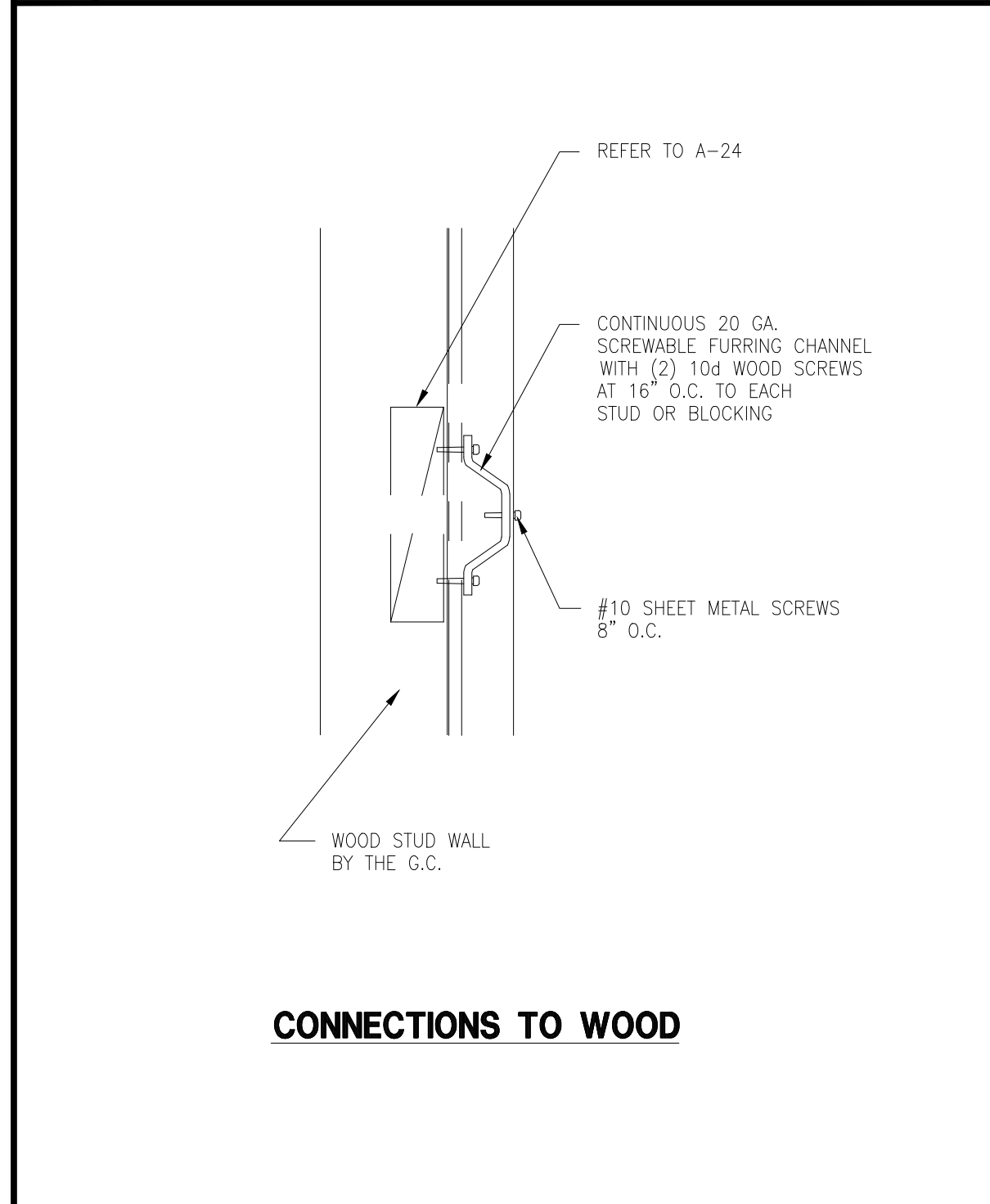
A-22 FIGURE A-22 (FOOT DETAILS) N.T.S.

A-23 FIGURE A-23 (BASE ATTACHMENTS) N.T.S.

A-24 FIGURE A-24 (WALL SUPPORT BACKING) N.T.S.

A-25 FIGURE A-25 (TOP ANGLE CONNECTION) N.T.S.

A-28 FIGURE A-28 (OFFSET CLIP DETAILS) N.T.S.

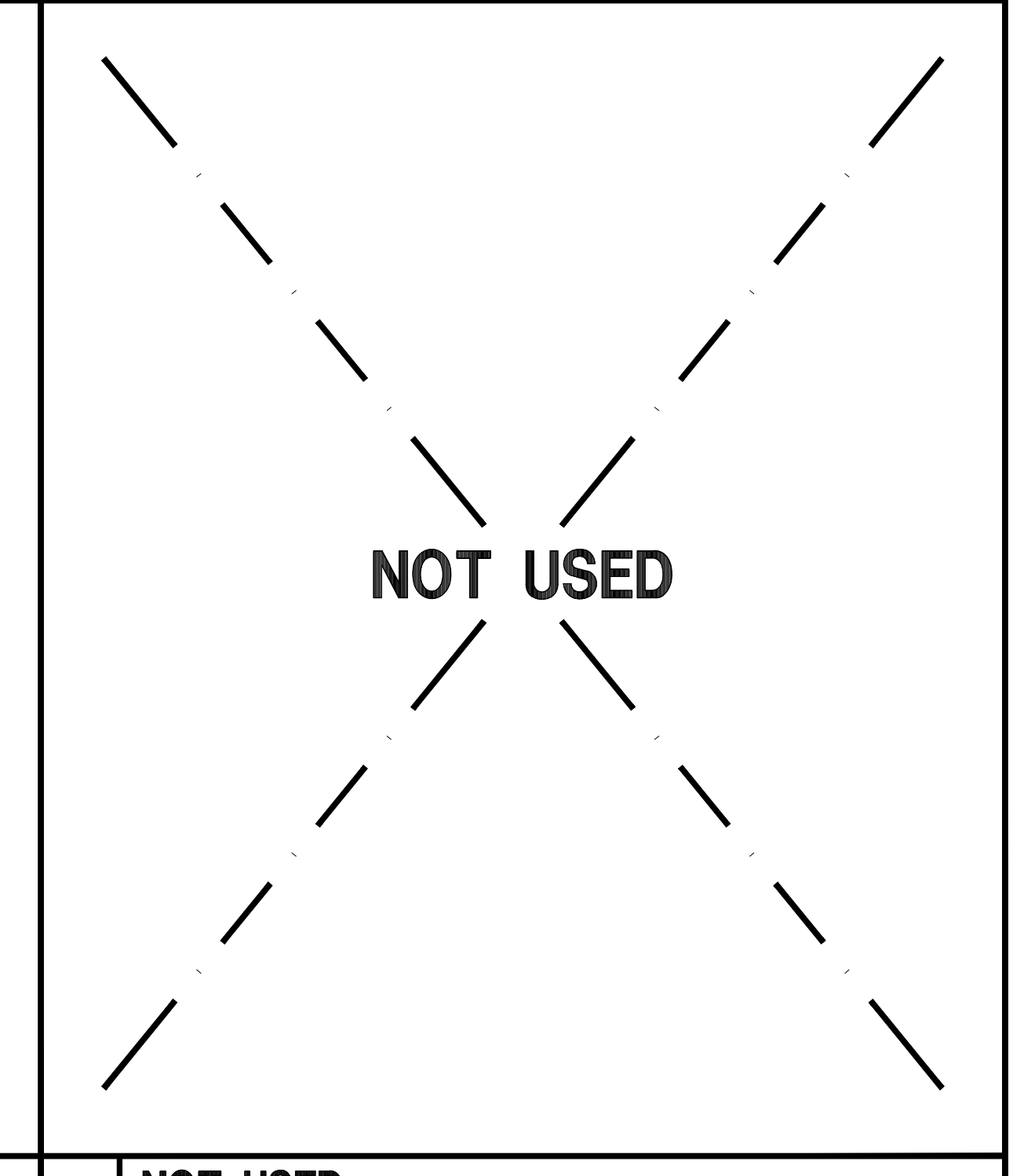
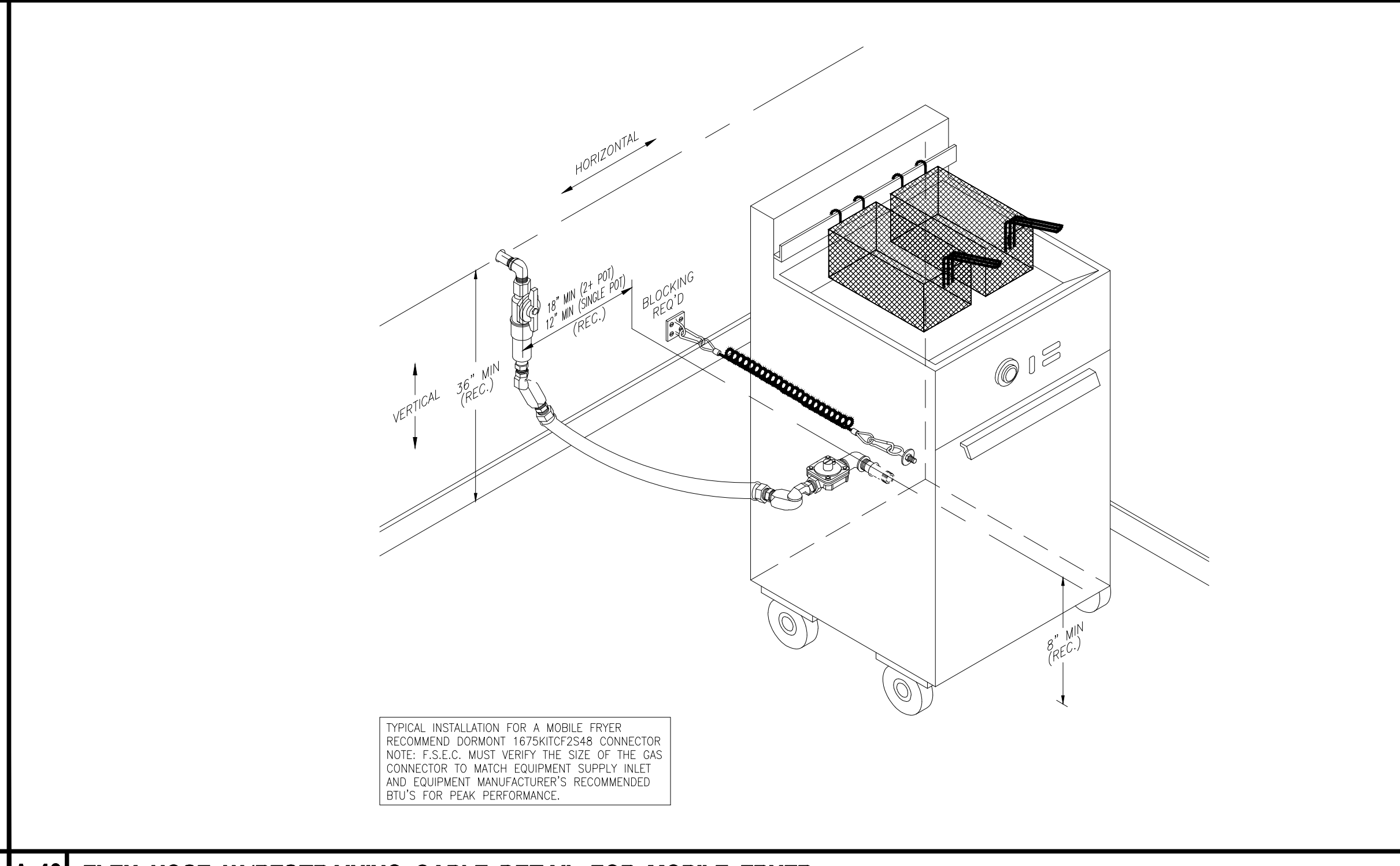
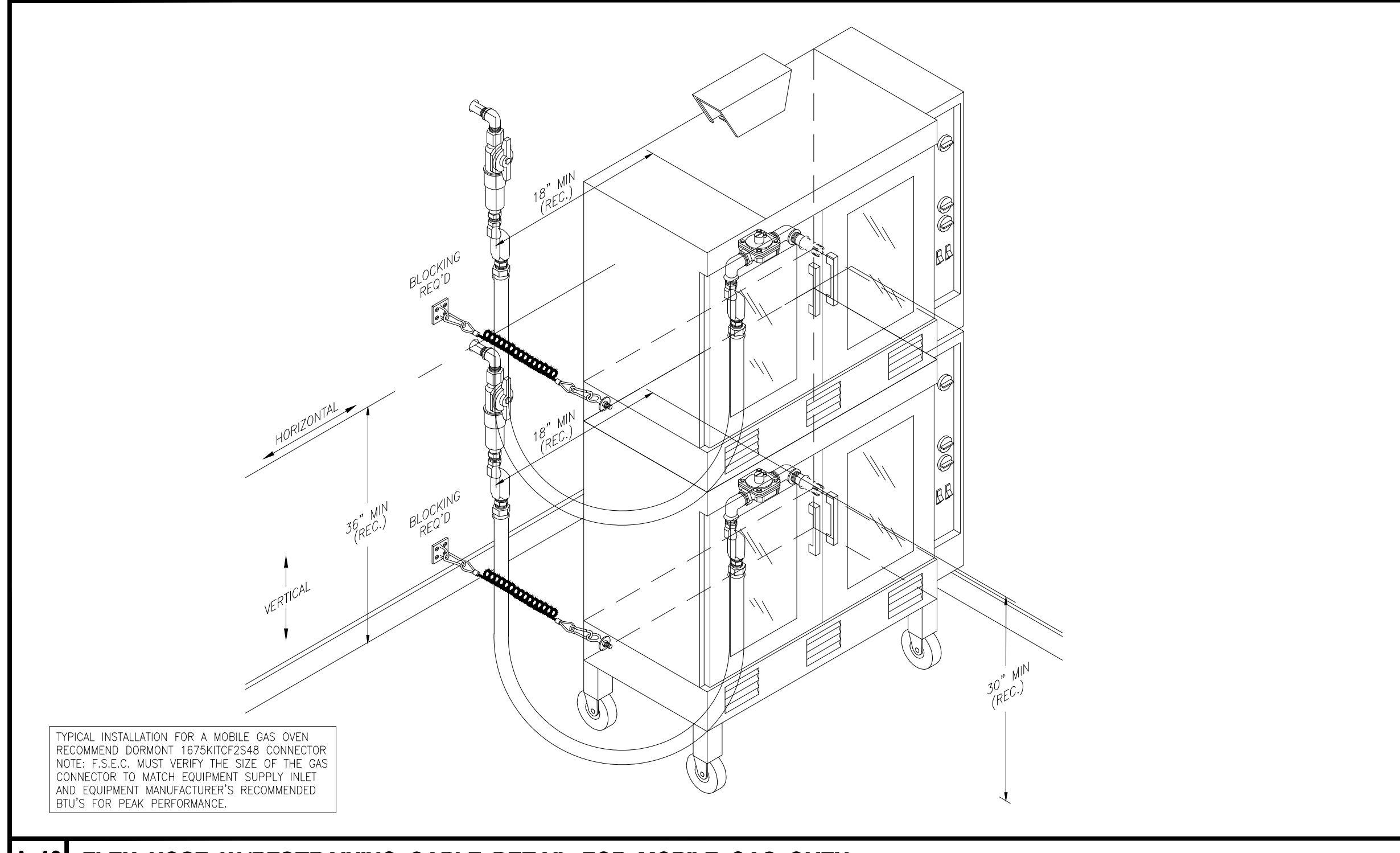


A-33 FIGURE A-33 (FURRING CHANNEL CONNECTIONS) N.T.S.

A-34 FIGURE A-34 (TYPICAL DRILLED CONCRETE ANCHORS) N.T.S.

A-35 FIGURE A-35 (RECESSED CEILING MTD AIR CURTAIN) N.T.S.

A-39 FIGURE A-39 (CEILING MTD MIRROR BRACING) N.T.S.



A-40 FIGURE A-40 (FLEX HOSE W/RESTRAINING CABLE DETAIL FOR MOBILE GAS OVEN) N.T.S.

A-43 FIGURE A-43 (FLEX HOSE W/RESTRAINING CABLE DETAIL FOR MOBILE FRYER) N.T.S.

- NOT USED N.T.S.

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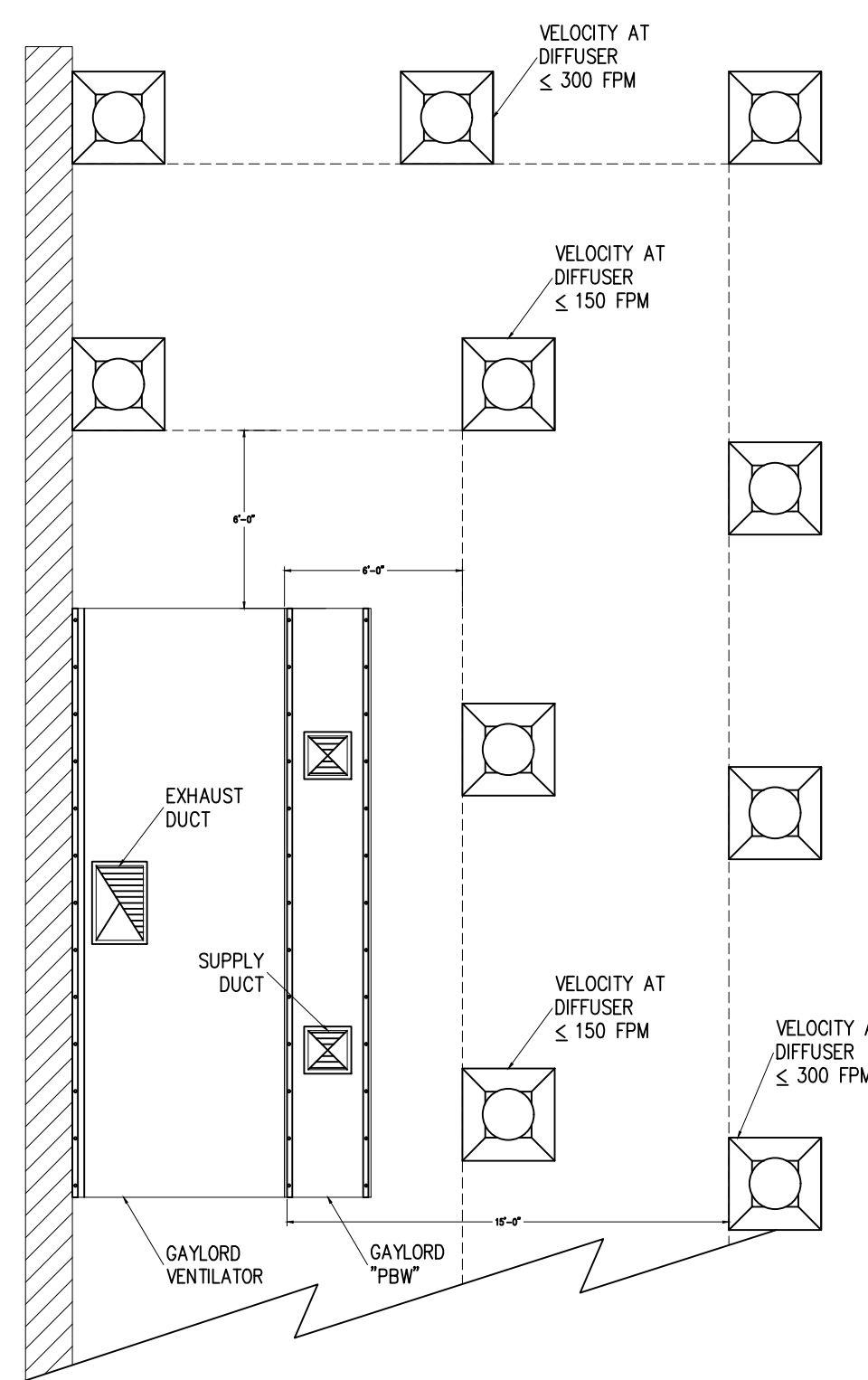
LICENSED ARCHITECT
JAMES SANDERS
6544
SAN DIEGO, CA 92121

Document Date
09-12-18

Date Last Revised
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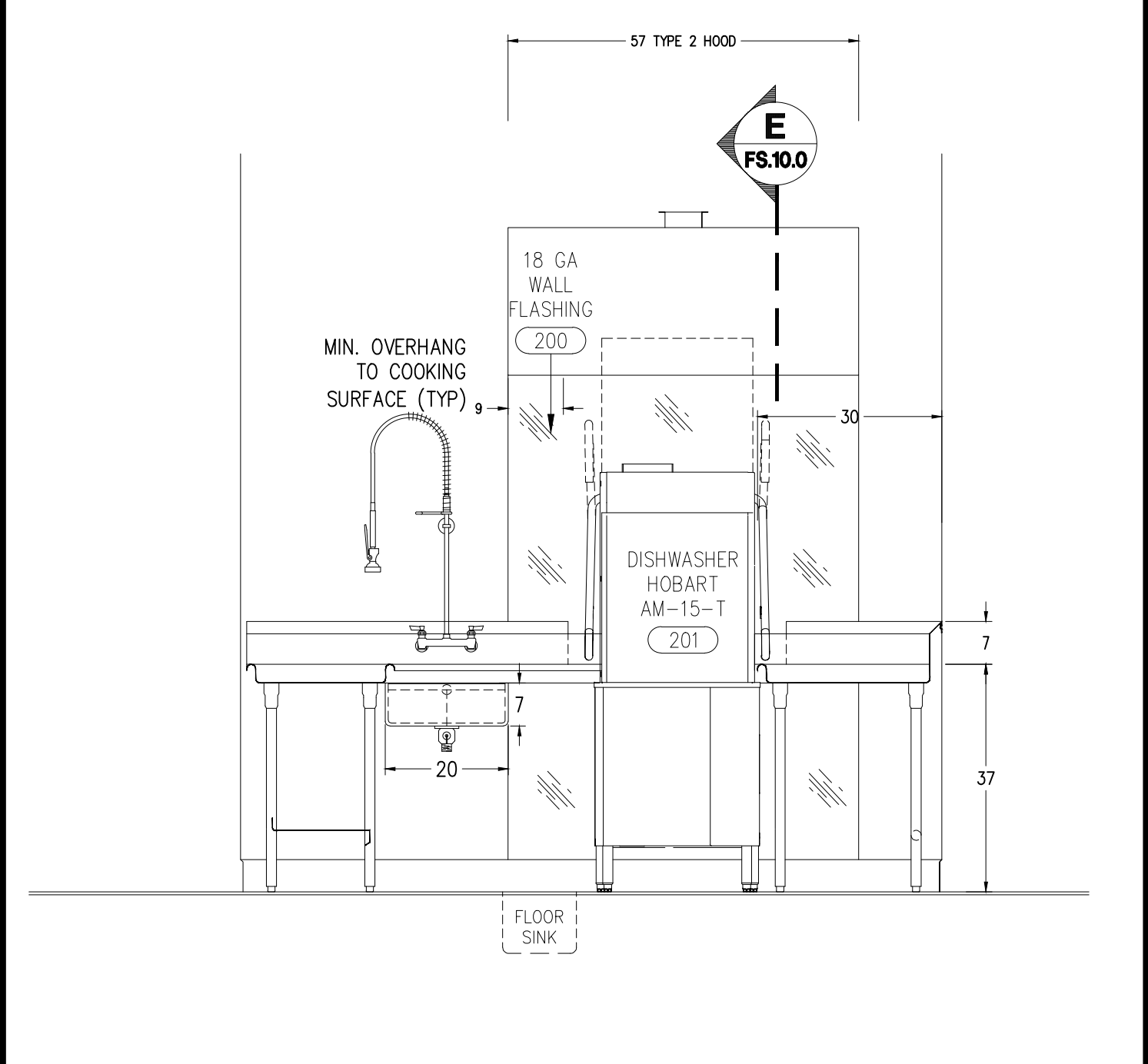
Gaylor Capture Performance Guarantee
 Gaylor warrants the Capture Performance of the ventilator, only if the Exhaust Air Volumes are correct, per the Exhaust Air Volume Guidelines, and the Make-up Air Volumes are correct and the make-up air is delivered correctly, per the Make-up Air Delivery Guidelines as stated below.

Exhaust Air Volume Guidelines:
 1. The amount of air exhausted by the Gaylor Ventilator shall be between 100% and 110% of the values shown on the Plan View for the Exhaust Ducts for each ventilator

Make-up Air Delivery Guidelines:
 1. Gaylor "PBW" Plenum boxes shall be included for each ventilator
 2. The amount of make-up air delivered through the Gaylor "PBW" plenum boxes shall be between 90% and 100% of the values shown on the Plan View for the Supply Ducts for each ventilator
 3. The make-up air delivered using Gaylor "PBW" plenum boxes shall not exceed 60% of the exhaust volume of the ventilator
 4. Ceiling diffusers shall be at least 6'-0" from all sides of the ventilator and the velocity at the diffuser shall not exceed 150 Feet per Minute (FPM)
 OR
 Ceiling diffusers shall be 15'-0" from all sides of the ventilator and the velocity at the diffuser shall not exceed 300 Feet per Minute (FPM)
 5. The maximum velocity of the make-up air from Transfer Air, Diffusers, etc. shall not exceed 75 FPM at the ventilator lip
 6. Cross drafts from pass through windows, hallways, or other openings shall not exceed 50 FPM
 7. All forms of make-up air introduction (PBW, Transfer Air, Diffusers, etc.) must be evenly distributed around each ventilator to prevent unequal pressurization
 8. Kitchen pressurization shall not exceed -0.02" W.G. relative to the dining or adjacent spaces, as stated in NFPA-96 and ASHRAE Standard 154
 9. For more information on acceptable methods of Make-up Air Delivery reference ASHRAE Standard 154.

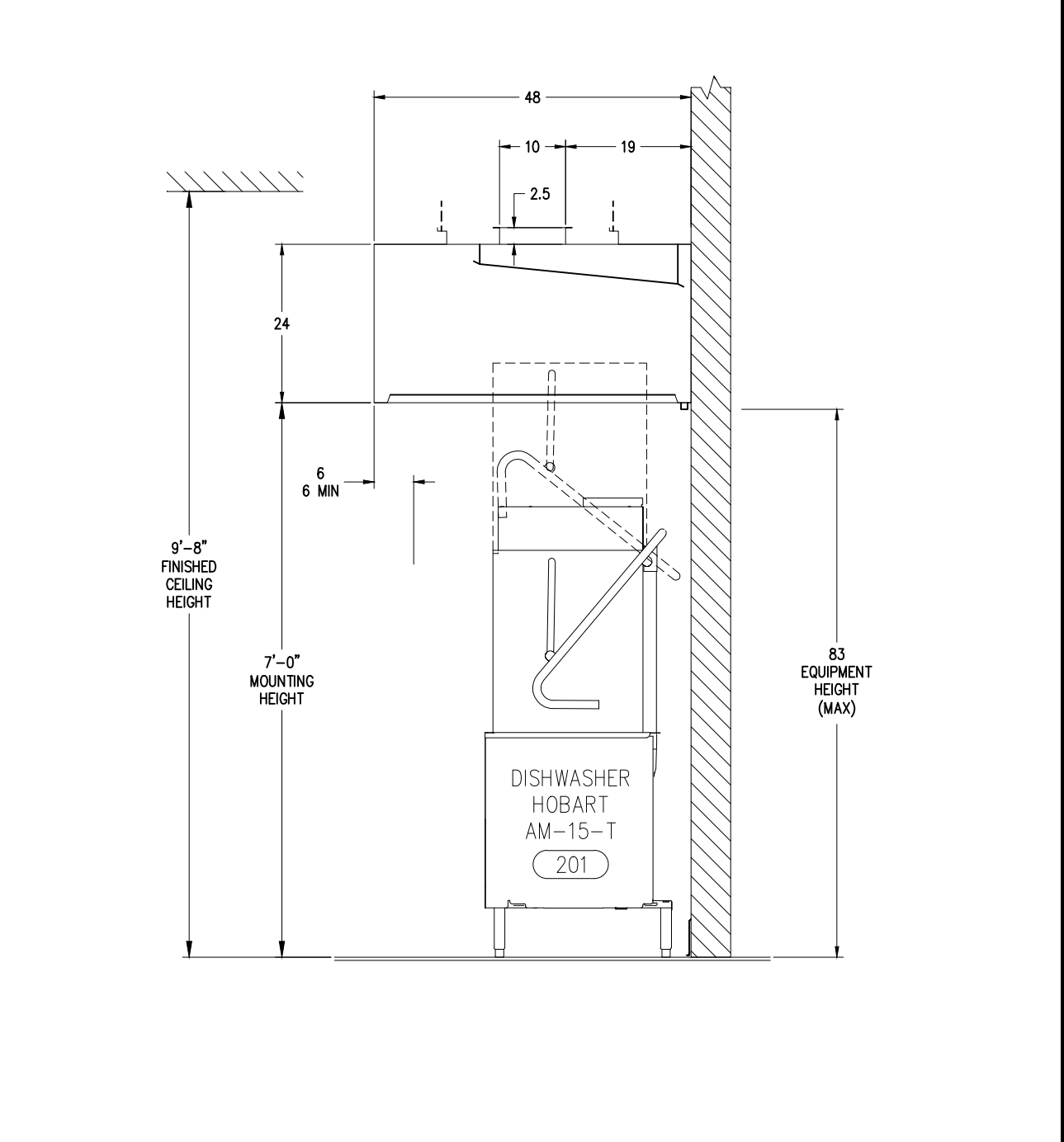
Following these guidelines will result in proper capture and containment at the ventilator and enact the Gaylor Capture Performance Guarantee. If jobsite conditions cannot accommodate these guidelines, consult factory for alternative design.

A TYPE 2 HOOD (ITEM #198) - MODEL #VH2-W-48 1/2"=1'-0"



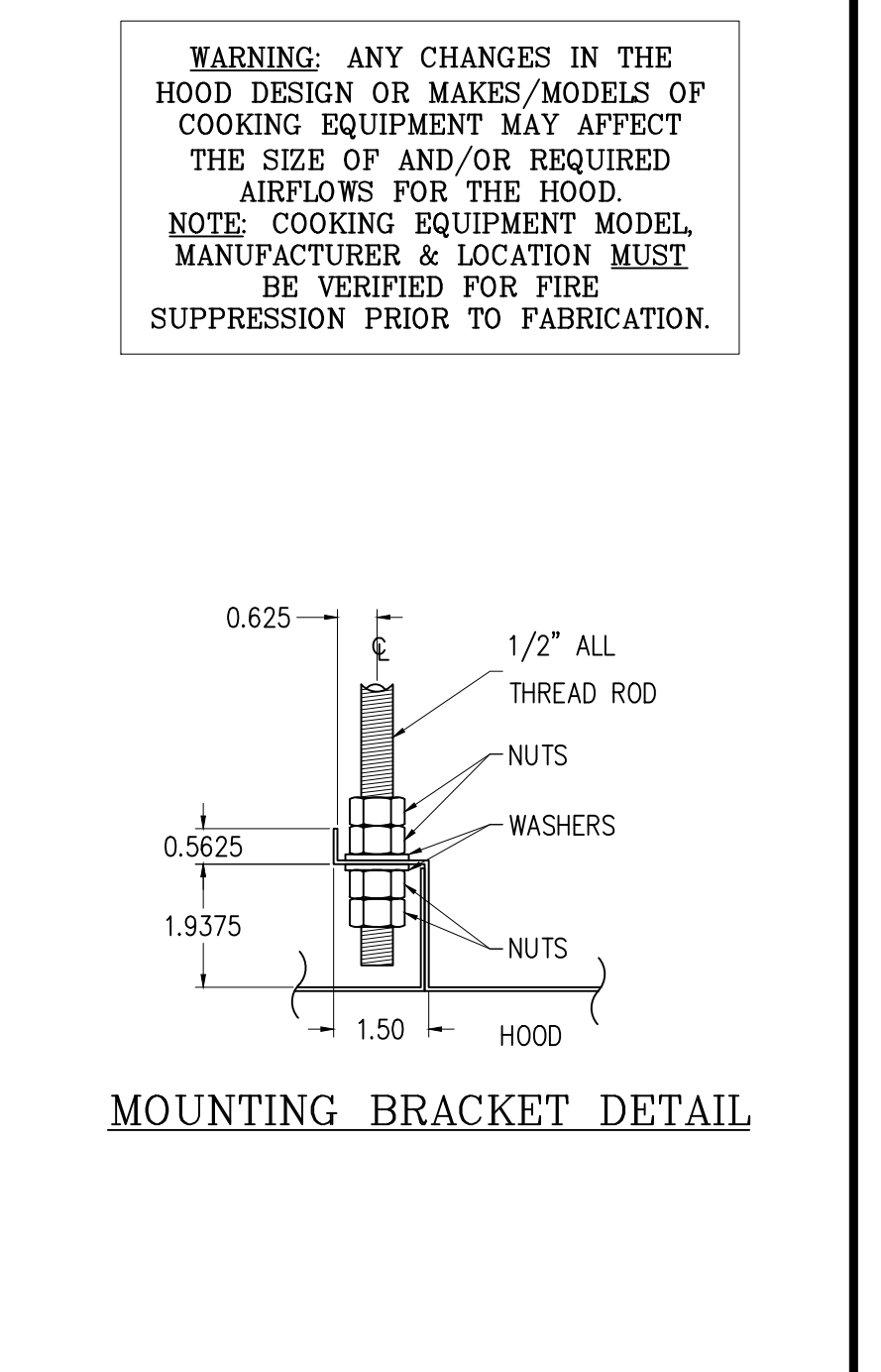
D ELEVATION OF TYPE 2 HOOD (ITEM #198) 1/2"=1'-0"

B WIRING DIAGRAM NOTES N.T.S.



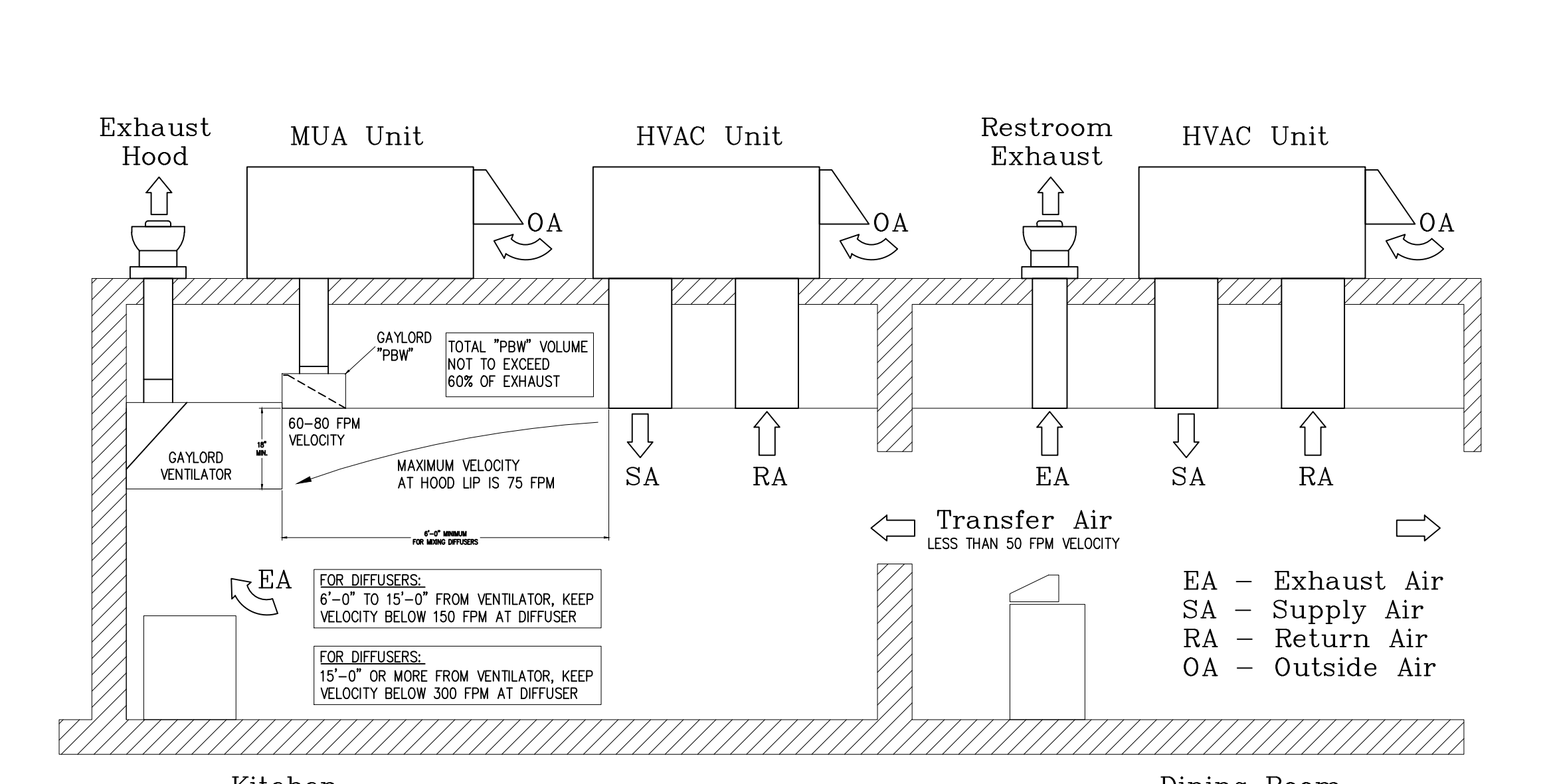
E SECTION OF TYPE 2 HOOD (ITEM #198) 1/2"=1'-0"

C TYPE 2 HOOD NOTES N.T.S.



F HOOD MOUNTING DETAIL N.T.S.

SPACE CONDITIONS IN HOT AND HUMID CLIMATES / STEAM COOKING EQUIPMENT
 Gaylor recommends the kitchen temperature be kept between 74°F to 79°F with a dew point not exceeding 55°F to prevent excess condensation and or dripping in the hood over heavy steam producing equipment such as Steamers, Kettles, Dim Sum Counters, etc. If this is not possible, please consult the factory for increased air volume levels to prevent condensation buildup and potential dripping. Please refer to ASHRAE STD's 62.1-2010, 55-2010, and "The ASHRAE Guide for Buildings in Hot & Humid Climates" to address occupancy comfort and reduce the growth of pathogenic or allergenic organisms. It should be noted that exceeding these values can result in increased potential for unsanitary conditions.



1 GAYLORD TYPICAL DESIGN AND CAPTURE PERFORMANCE GUARANTEE N.T.S.

GENERAL NOTES FOR NON-WATER WASH VENTILATORS

- ELECTRICAL**
 1. Locate Fan Start/Stop Switch in a convenient location. Refer to the wiring diagram for required voltage.
 2. If ventilators are equipped with light fixtures, provide a separate light circuit to the ventilator as shown on electrical plan.
EXHAUST VOLUME REQUIREMENTS
 3. Exhaust Volumes as shown on the drawings are determined by established Gaylor engineering methods and in accordance with the terms of the ventilator's listing. These air volume levels require that the make-up air be brought into the space in such a way that it does not negatively affect the ventilator. See the Make-up Air Requirements and the "Typical Design" drawing.
 4. Ventilator static pressure is noted on each ventilator plan view. Total duct system and other external static's must be added to the ventilator static for determining the total system static pressure drop. Static based on operation at mean sea level at 75°F kitchen ambient.
MAKE-UP AIR REQUIREMENTS
 5. Make-up air is critical to the performance of the ventilator.
 6. The total amount of make-up air (supply air) brought into the kitchen must be between 90% and 100% of the total exhaust volume. It should be brought in throughout the kitchen evenly for best results. See the "Typical Design" drawing.
AIR FLOW RATES
 7. Exhaust and Supply Air Flow Rates were established under controlled laboratory conditions. Greater Exhaust and/or lesser Supply Air Flows may be required for complete vapor removal in specific installations.
INSTALLATION
 8. Ventilators to be installed in accordance with NFPA-96 and all other local applicable codes. Contractors must review applicable codes with code authorities before approving drawings for fabrication. Special attention must be given to code regulations relative to clearances from surrounding combustible and limited combustible construction (walls, ceiling, etc.).
 9. Ventilators manufactured in multiple sections are factory pre-wired to a single connection point. Ventilator wiring is disconnected for shipment to be reconnected by electrical contractor.
 10. Ventilators manufactured in multiple sections may have drains factory interconnected (see drawing) to a single outlet point. Ventilator plumbing is disconnected for shipment to be reconnected by plumbing contractor.
11. All ductwork beyond the ventilator duct take-off collar to be provided and installed by others, in accordance with applicable codes. Exhaust ducts must be continuously welded liquid tight.
 12. All ventilators are equipped with hanging brackets. Hanging rods to be supplied by ventilator installer. Hanging weight of the ventilator(s) is noted on each drawing.
 13. Ventilators manufactured in multiple sections are provided with bolts, clips, and all necessary hardware for reconnecting by the ventilator installer.
CONSTRUCTION
 14. Ventilators are manufactured in strict accordance with Gaylor specifications.
 15. Ventilators constructed of 18 Ga. stainless steel, Type 300 series, No. 4 finish unless otherwise noted on drawings.
FIRE EXTINGUISHING SYSTEM
 16. Fire extinguishing system to be installed in accordance with NFPA-96. Refer to "FIRE PROTECTION SYSTEM NOTES" for information on supplier and installation.
 17. Caution: Fire extinguishing system piping installed on the ventilator at job site should be coordinated with Gaylor to ensure piping does not interfere with the ventilator's operation/performance. Improper installation may void the Listings of the ventilator.
 18. **IMPORTANT NOTE:** NFPA-96 requires that all gas and electric cooking equipment, that is protected by surface fire protection, must automatically shut off upon activation of the fire extinguishing system.
 19. **IMPORTANT NOTE:** Most building departments require separate hood and fire protection permits prior to installation. The hood permit is typically obtained through the plan review department and the fire protection permit from the fire prevention bureau. It is the responsibility of the installing contractor to check with local building departments for their requirements and to obtain necessary permits.
LIGHTING
 20. Light fixtures in ventilators will provide less than 30 foot candles of light at the cooking surface as a standard, unless otherwise noted on Section View. Confirm if this amount of light is acceptable with local health codes.

2 GENERAL NOTES FOR NON-WATER WASH VENTILATORS N.T.S.

THE GAYLORD VENTILATOR TESTING, LISTING AND COMPLIANCE REFERENCES:

- IMPORTANT NOTE:** Gaylor Ventilators are designed to meet the National codes listed below. Local codes may vary. Gaylor Industries must be notified in writing of local codes that may affect the ventilator design.
- NATIONAL FIRE PROTECTION ASSOCIATION**
 The exhaust ventilator meets all requirements of the latest edition of NFPA-96.
- NATIONAL SANITATION FOUNDATION**
 The exhaust ventilator is NSF listed to: Standard #2 - "Food Service Equipment"
- INTERNATIONAL & UNIFORM MECHANICAL CODE**
 The exhaust ventilator meets all requirements of IMC and UMC.
- UNDERWRITERS LABORATORIES, INC.**
 The exhaust ventilator is UL Listed. *
- INTERTEK TESTING SERVICES**
 The exhaust ventilator is ETL Listed. *
- * UL and ETL listed exhaust ventilators are tested to standard: UL 710 - "Exhaust Hoods for Commercial Cooking Equipment".



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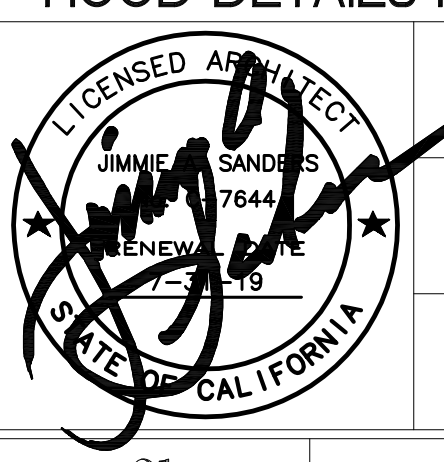
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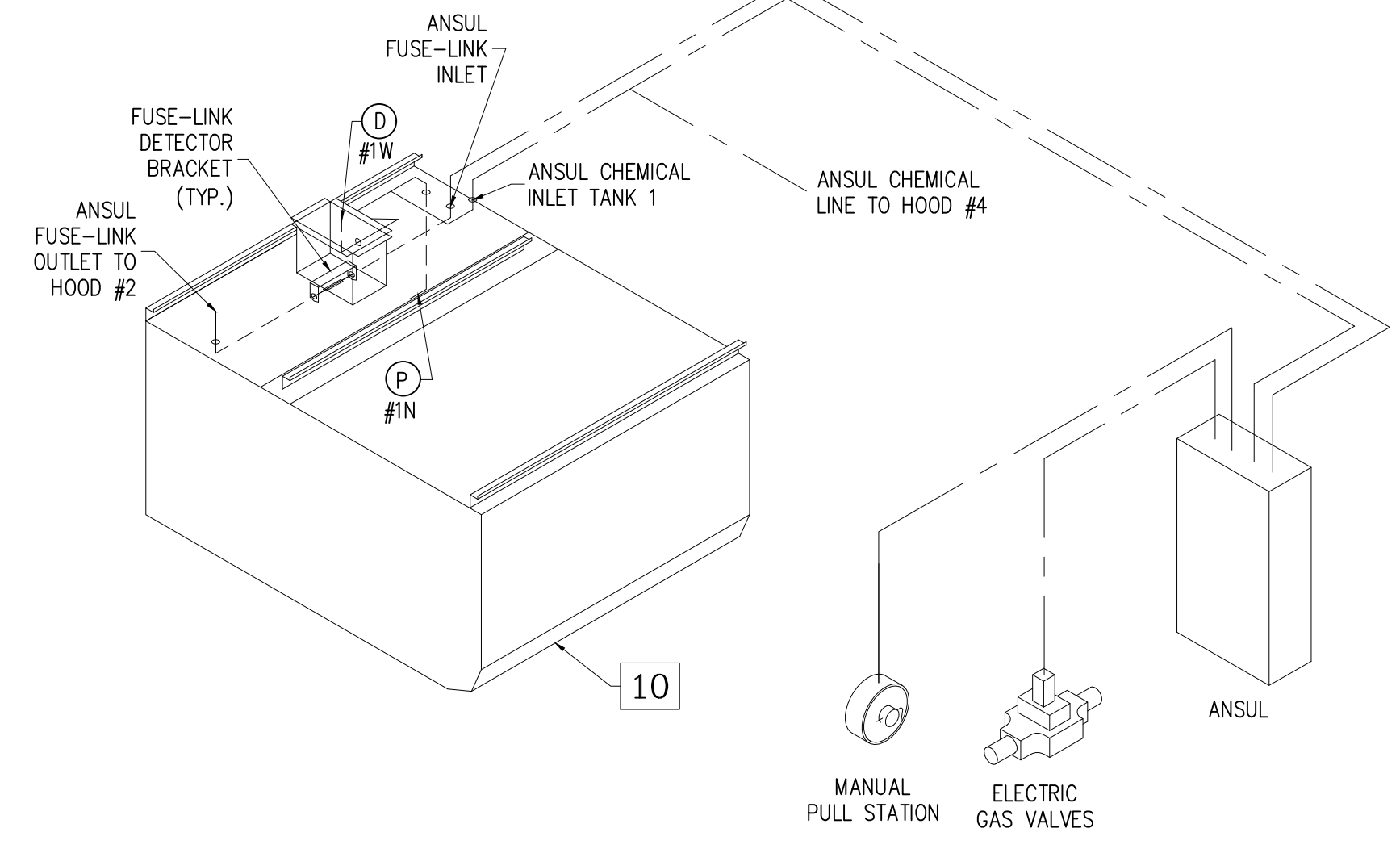
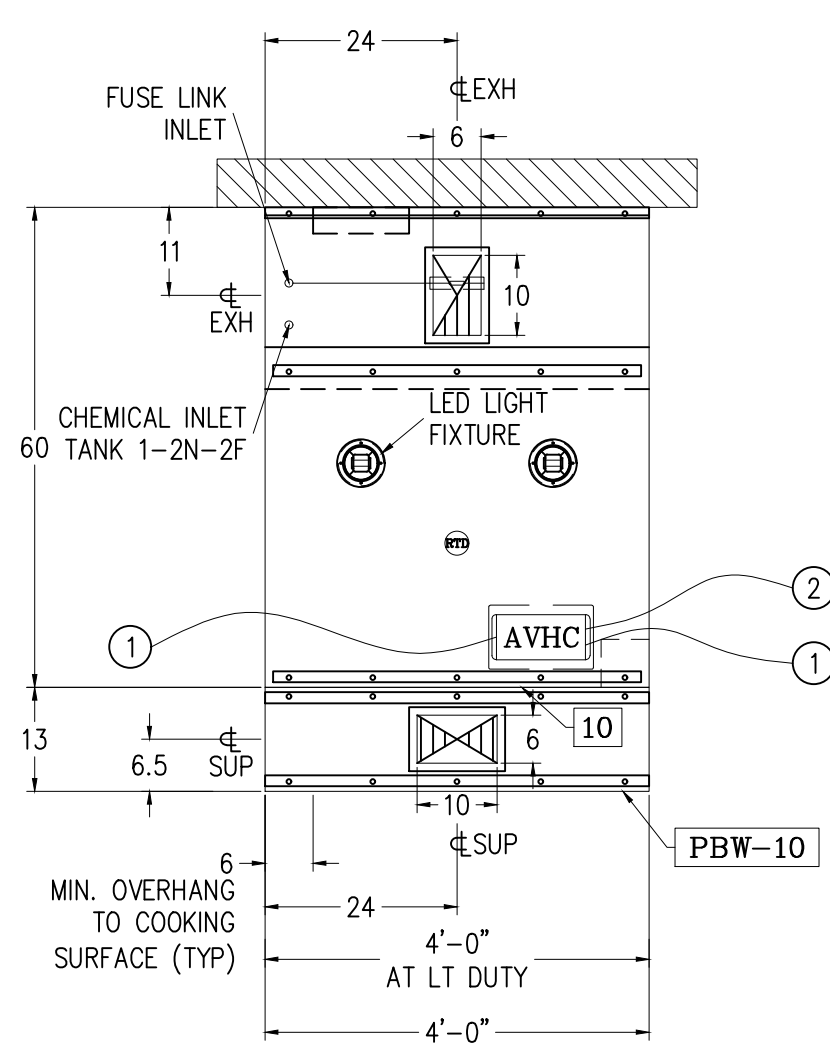
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Project Title
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 CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
**FOODSERVICE EQUIPMENT
 HOOD DETAILS ITEM 198**

Document Date 09-12-18	Project Number 18-25CX
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(D) = DUCT NOZZLE
 (P) = PLENUM NOZZLE
 (A) = APPLIANCE NOZZLE

DISTRIBUTION PIPING REQUIREMENTS PER 3 GALLON TANK

REQUIREMENTS	SUPPLY	DUCT BRANCH LINE	PLENUM BRANCH LINE	APPLIANCE BRANCH LINE
PIPE SIZE	3/8 IN.	3/8 IN.	3/8 IN.	3/8 IN.
MAXIMUM LENGTH	40 FT. (12.2 M)	8 FT. (2.4 M)	4 FT. (1.2 M)	12 FT. (3.7 M)
MAXIMUM RISE	6 FT. (1.8 M)	4 FT. (1.2 M)	2 FT. (0.6 M)	2 FT. (0.6 M)
MAXIMUM 90° ELBOW	9	4	4	6
MAXIMUM TEES	1	2	2	4
MAXIMUM FLOW NUMBERS	11*	4	4	4

*EXCEPTIONS:
 1. TWELVE (12) FLOW NUMBERS ARE ALLOWED IN ANY ONE TANK FOR DUCT AND PLENUM PROTECTION ONLY.
 2. TWELVE (12) FLOW NUMBERS ARE ALLOWED IN ANY ONE TANK USING ONLY TWO-FLOW APPLIANCE NOZZLES.
 3. TWELVE (12) FLOW NUMBERS ARE ALLOWED IN ANY ONE TANK USING ONLY THREE-FLOW APPLIANCE NOZZLES.

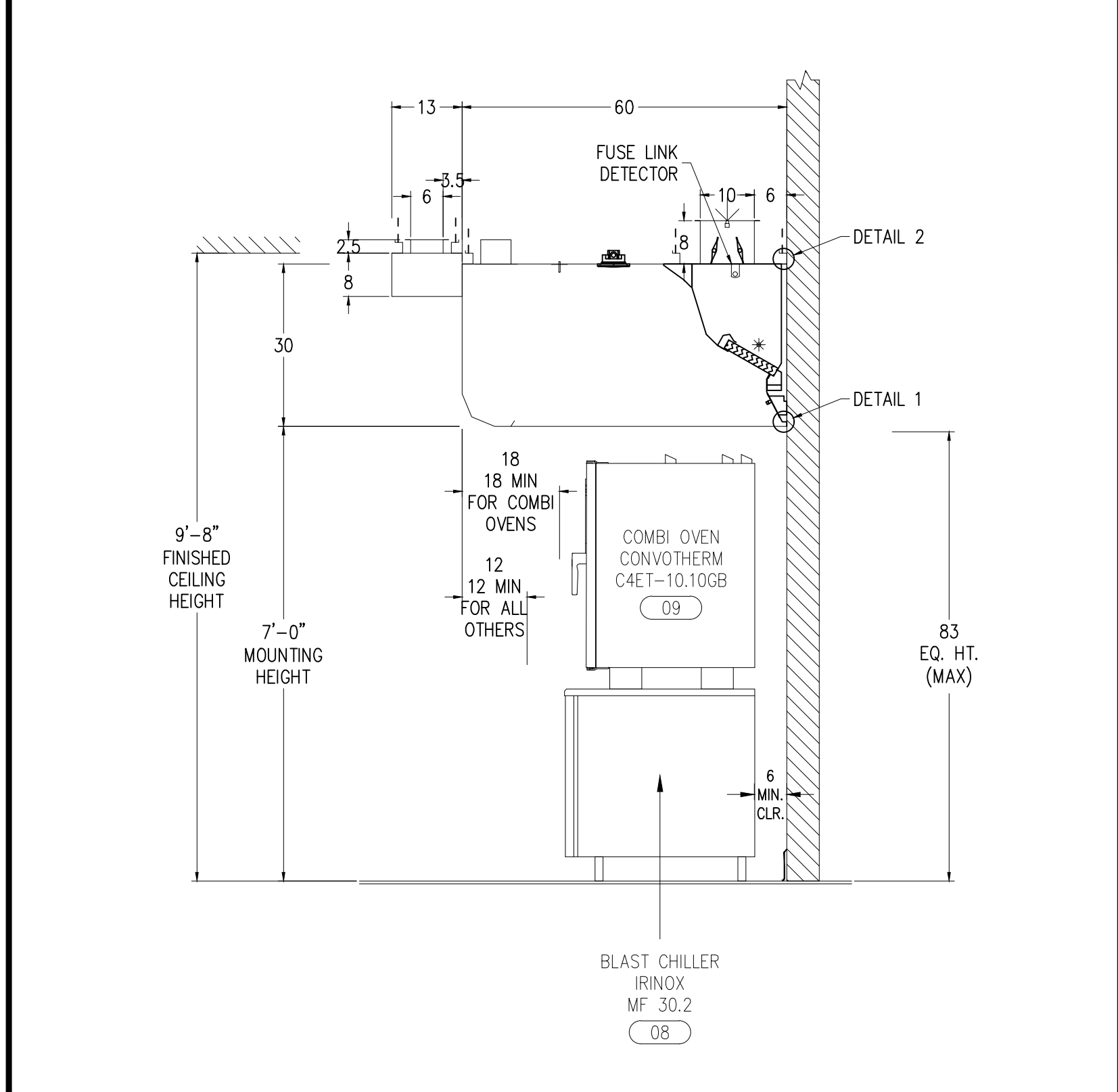
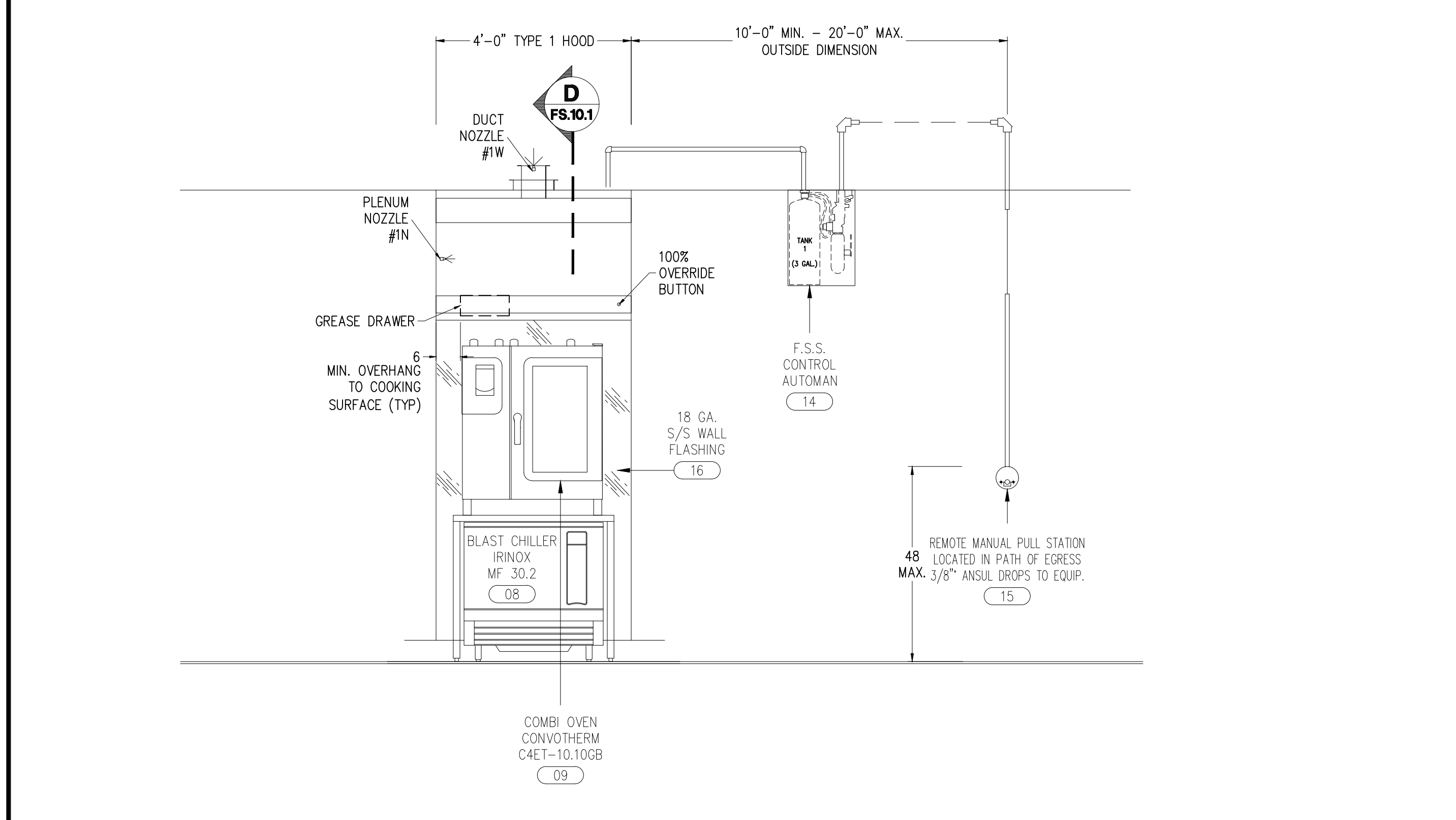
FLOW POINT CALCULATION CHART

NOZZLE	QUANTITY	FLows
1W	1	1 (EACH)
1N	1	1 (EACH)
TOTAL:	2	2

- - - - - = ANSUL PIPING BY FIRE SUPPRESSION INSTALLER
 - - - - - = INTERIOR HOOD ANSUL PIPING BY GAYLORD
 - - - - - = ROOF TOP ANSUL PIPING BY GAYLORD

A PLAN VIEW OF EXHAUST HOOD #1 (Item #10) - MODEL #ELX-GBD-A-AV-60 1/2"=1'-0"

B FIRE SUPPRESSION SYSTEM OF HOOD #1 (Items #13, 14 & 15) - (Isometric View) N.T.S.



VENTILATOR NOTES (NON-WATER WASH)

A) VERIFY ALL MAKES AND MODELS OF COOKING EQUIPMENT AND LOCATION IN RELATION TO VENTILATOR PRIOR TO FABRICATION.

B) FRONT AND REAR MOUNTING BRACKETS HAVE #0.625" HOLES. BRACKETS TO BE SUPPORTED WITHIN 12" OF EACH END OF EACH SECTION, WITH A MAXIMUM SPAN OF 72" BETWEEN SUPPORTS.

C) INTERIOR MOUNTING BRACKET(S) TO BE SUPPORTED WITHIN 36" OF EACH END OF EACH SECTION, WITH A MAXIMUM SPAN OF 72" BETWEEN SUPPORTS.

FIRE SUPPRESSION SYSTEM NOTES ANSUL R-102-ASEF

FP-1) LOCATION OF FIRE SUPPRESSION NOZZLES MUST BE VERIFIED IN RELATION TO THE COOKING EQUIPMENT, PRIOR TO VENTILATOR FABRICATION.

COMPLETE SYSTEM INCLUDING APPLIANCE DROPS AND SURFACE MOUNTED DETECTION BRACKETS, WITH FIELD INSTALLATION BY GAYLORD.

ANSUL FIRE SYSTEM (LISTED TO A U.L. 300) FACTORY PRE-PIPED CHEMICAL LINES INCLUDING DUCT, PLENUM AND APPLIANCE DROPS WITH ALL NOZZLES INSTALLED PER COOKING EQUIPMENT ARRANGEMENT ON GAYLORD APPROVED DRAWINGS. ALL EXPOSED CHEMICAL PIPING CHROME PLATED OR CHROME SLEEVED. INCLUDES FACTORY PRE-PIPED DETECTION LINES WITH SURFACE MOUNTED DETECTOR BRACKETS. INSTALLATION BY CERTIFIED FACTORY INSTALLERS.

INCLUDES:

- * TANK(S) AND RELEASE ASSEMBLY(S)
- * CHEMICAL DETECTOR CABLE
- * FUSIBLE LINKS WITH LINKAGE
- * EXPELLANT GAS CARTRIDGE(S) (PROVIDED BY FIRE SUPPRESSION INSTALLER)
- * (1) REMOTE MANUAL PULL STATION
- * (1) GAS VALVE PER FIRE SYSTEM WITH A MAXIMUM SIZE OF 2-1/2"
- * (1) MANUAL RESET RELAY PER FIRE SYSTEM, IF REQUIRED

VERIFY EXHAUST & SUPPLY FANS

A) VERIFY IF THIS HOOD IS EXHAUSTED ON ITS OWN EXHAUST FAN OR IS IT EXHAUSTED ON A COMMON EXHAUST FAN SHARED WITH OTHER HOODS.

B) VERIFY NUMBER OF SUPPLY (MAKE-UP AIR) FANS.

PBW PLENUM FEATURES

- * REMOVABLE S/S PERFORATED PANEL(S)
- * ALL EXPOSED SURFACES ARE STAINLESS STEEL

LIGHTING NOTE

THIS LIGHTING IN THIS VENTILATOR IS DESIGNED TO PROVIDE 50 FOOT CANDLES OF LIGHT AT THE COOKING SURFACE, IF 50 FOOT CANDLES OF LIGHTING IS PROVIDED IN THE SURROUNDING SPACE.

THESE LED FIXTURES ARE PROVIDED WITH LED SMD CHIPS INTEGRATED INTO THE FIXTURE ASSEMBLY, THEREFORE NO SEPARATE BULBS ARE REQUIRED.

ELECTRICAL NOTES (DCV-AV)

(1) CAT 5 CABLE, FOR CONTROL(S), IN FLEXIBLE CONDUIT, EXTENDING 6' BEYOND END OF VENTILATOR BY GAYLORD. WIRED TO DCV CONTROL CABINET OR NEXT HOOD (IF APPLICABLE) BY ELECTRICAL CONTRACTOR.

* LIGHT FIXTURES, VAPOR PROOF, U.L. LISTED, FURNISHED, INSTALLED AND WIRED BY GAYLORD.

(2) (2) WIRES AND GROUND, FOR CONTROL(S) AND LIGHT(S), IN FLEXIBLE CONDUIT, EXTENDING 6' BEYOND END OF VENTILATOR BY GAYLORD. WIRED TO SUPPLY VOLTAGE BY ELECTRICAL CONTRACTOR.

WARNING: ANY CHANGES IN THE HOOD DESIGN OR MAKES/MODELS OF COOKING EQUIPMENT MAY AFFECT THE SIZE OF AND/OR REQUIRED AIRFLOWS FOR THE HOOD.

NOTE: COOKING EQUIPMENT MODEL, MANUFACTURER & LOCATION MUST BE VERIFIED FOR FIRE SUPPRESSION PRIOR TO FABRICATION.

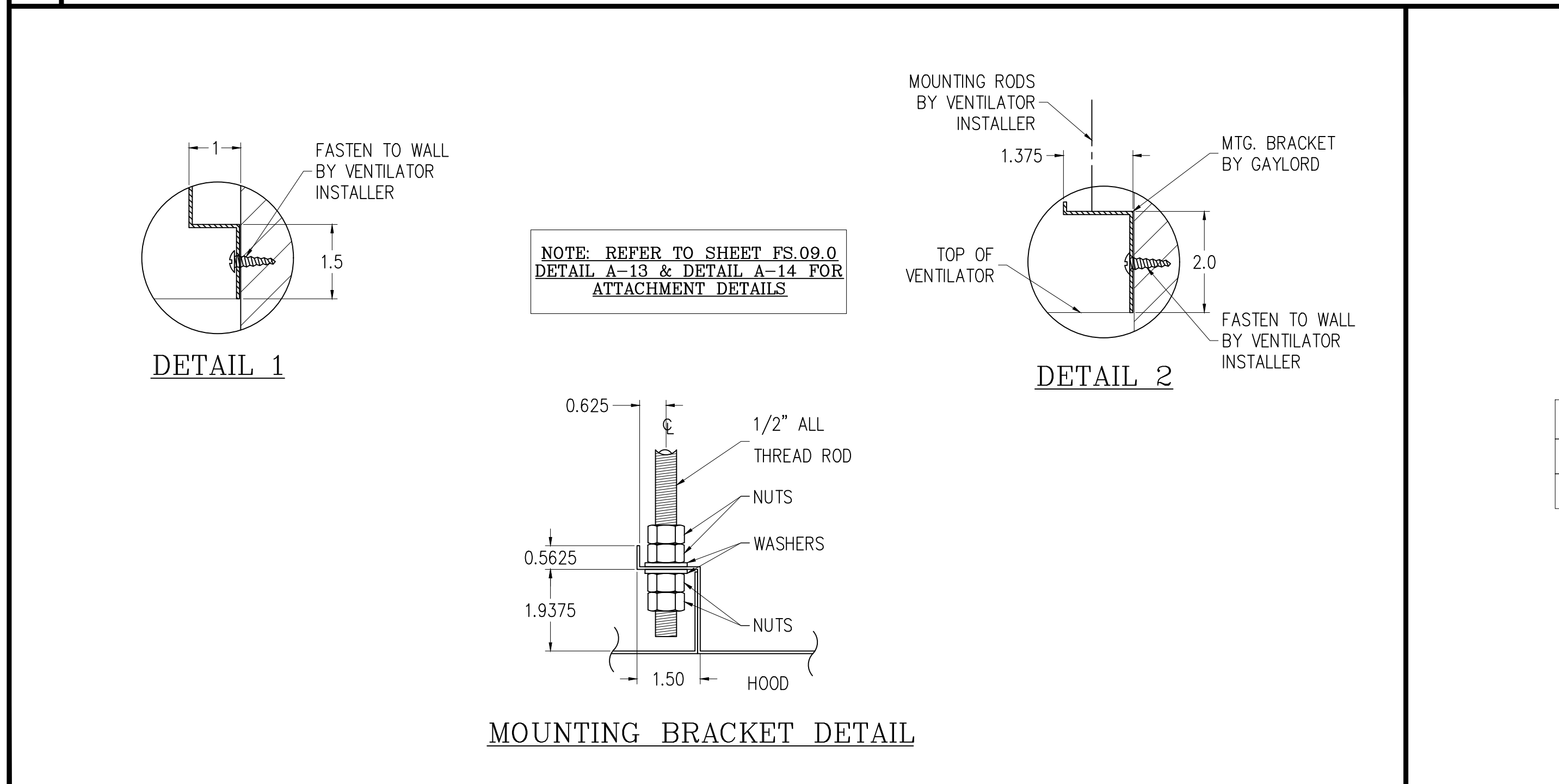
NOTE: REFER TO SHEET FS.05.7 FOR ADDITIONAL INFORMATION FOR THE DCV CONTROL CABINET & WIRING DETAILS

ATD
Intertek
E.T.L. LISTING #3192993CRT-002

GAYLORD DWG. #18-1014
HOOD #10 MODEL #ELX-GBD-A-AV-60
TOTAL HOOD HANGING WEIGHT: 320 LBS
PLENUM BOX #PBW-10 MODEL #PBW-13
TOTAL PLENUM BOX WEIGHT: 60 LBS

C ELEVATION OF EXHAUST HOOD #1 (Item #10) & FIRE SUPPRESSION SYSTEM (Items #13, 14 & 15) 1/2"=1'-0"

D SECTION OF EXHAUST HOOD #1 1/2"=1'-0"



HOOD INFORMATION

ITEM NO.	MODEL	SIZE	AIR FLOW REQUIREMENTS				WEIGHT (LBS)			
			DUCT COLLAR	DUCT SP.	DUCT QTY	DUCT L. (FT.)				
10	ELX	48" x 80" x 30"	0.20	EXHAUST	1	0.48	560	6	10	300
PBW-10	PBW	48" x 13" x 8"		SUPPLY	1	0.11	336	10	6	60

TOTAL HOOD SP.: 0.48" W.G.
TOTAL EXHAUST: 560 CFM
TOTAL SUPPLY: 336 CFM

TOTAL WEIGHT: 380 LBS

HOOD EXHAUST INFORMATION CHART

ITEM #	DUCT COLLAR	CFM/LP	TOTAL CFM	STATIC PRESSURE	VELOCITY
10	10" X 6"	140	560	0.48" W.G.	1344 FPM

HOOD SUPPLY INFORMATION CHART

ITEM #	DUCT COLLAR	TOTAL CFM	STATIC PRESSURE	VELOCITY
10	10" X 6"	336	0.11" W.G.	878 FPM

HOOD CARTRIDGES

ITEM #	QTY.	CARTRIDGE	CARTRIDGE SIZE	MAX. RATING
10	3	XGS	11" X 15.5"	280 CFM/LP

E HOOD MOUNTING DETAILS N.T.S.

F HOOD EXHAUST INFORMATION CHART N.T.S.

G TYPE 1 EXHAUST HOOD NOTES N.T.S.

DIELI MURAWKA HOWE
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Design By: RICHARD DIELI

APPROVALS

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760 353 5440 FAX 760 353 5442

Project Title
**CALEXICO UNIFIED SCHOOL DISTRICT
CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
**FOODSERVICE EQUIPMENT
HOOD DETAILS ITEM 10**

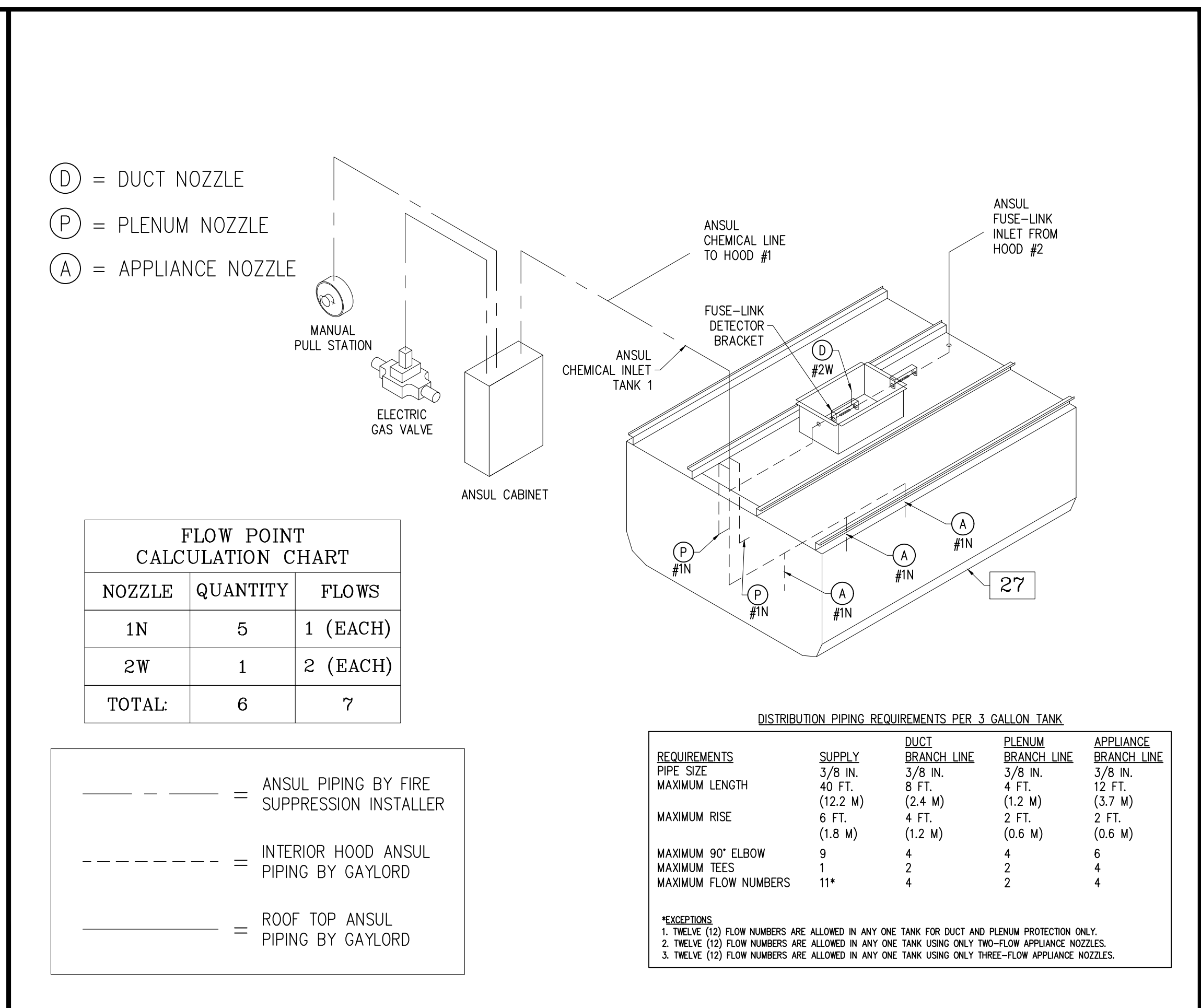
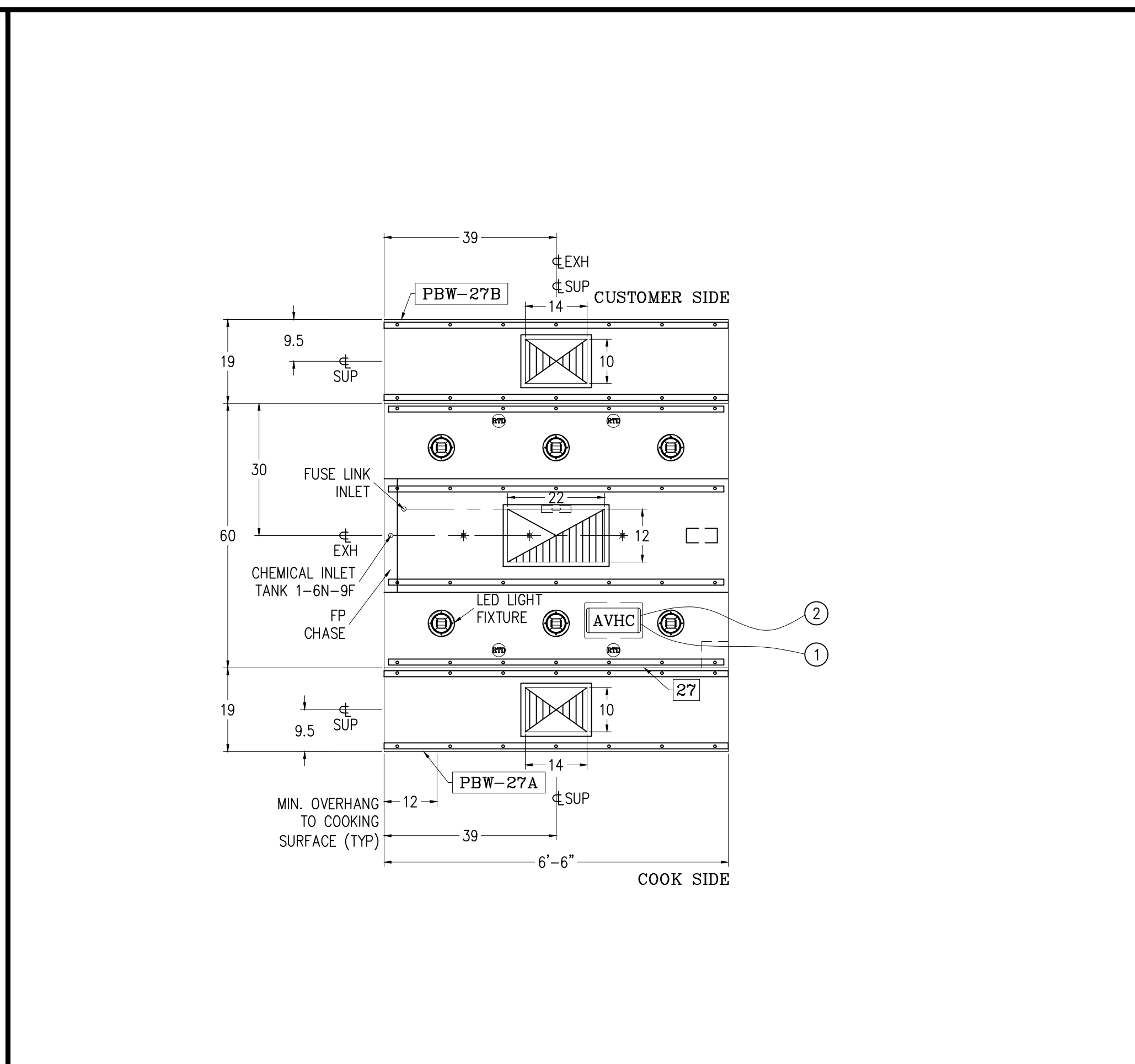
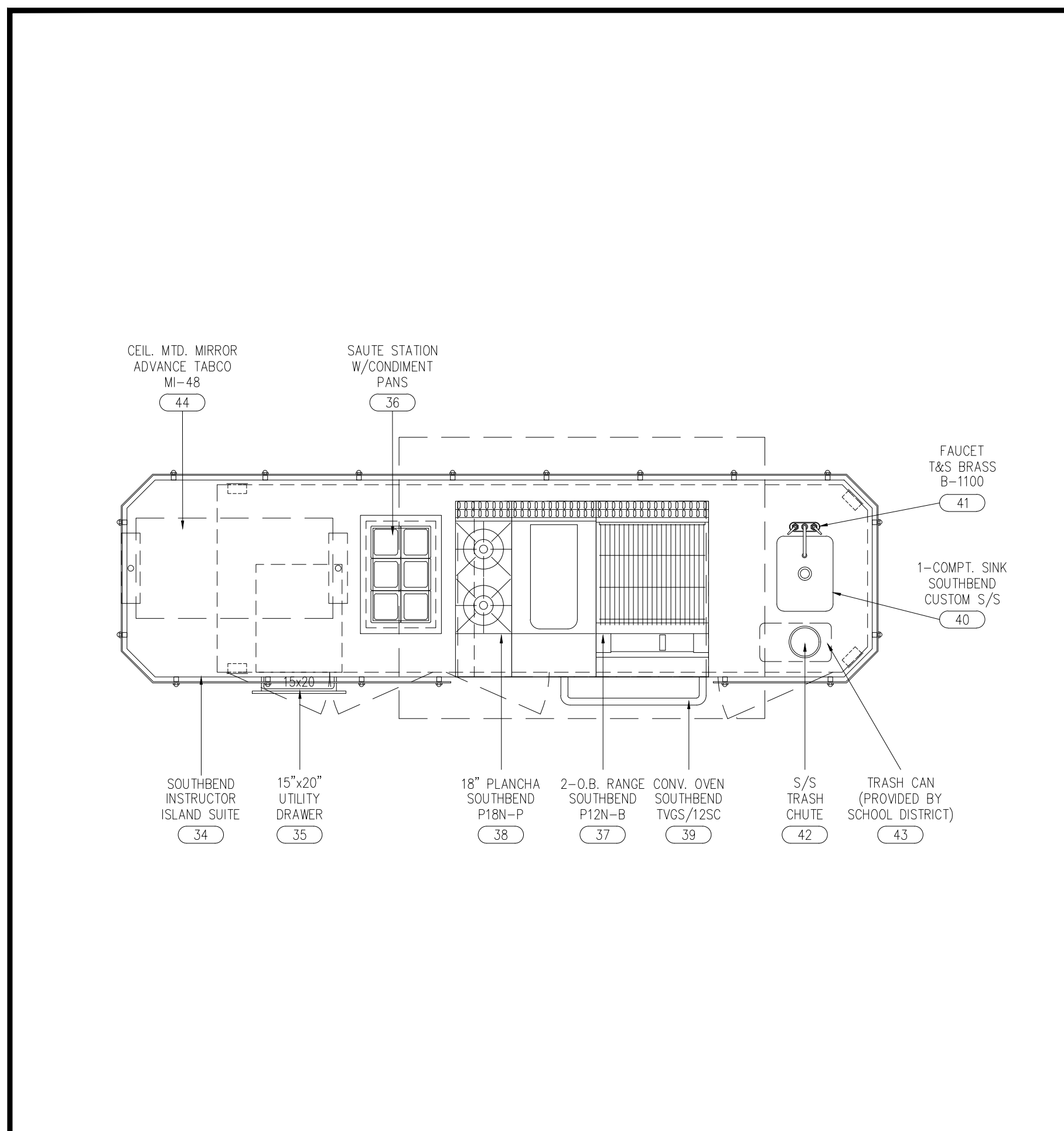
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Date Last Revised
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Project Number
18-25CX

Sheet Number
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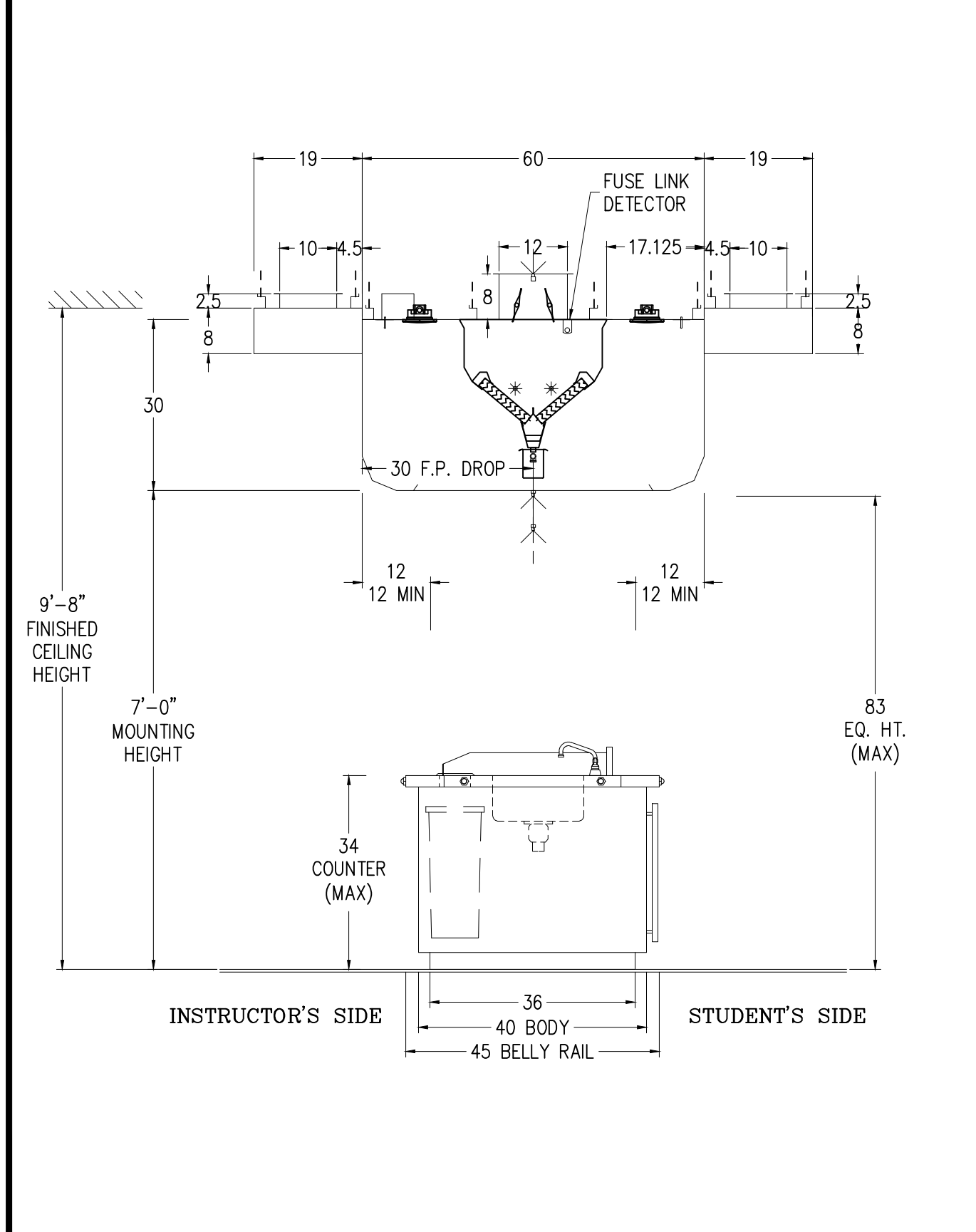
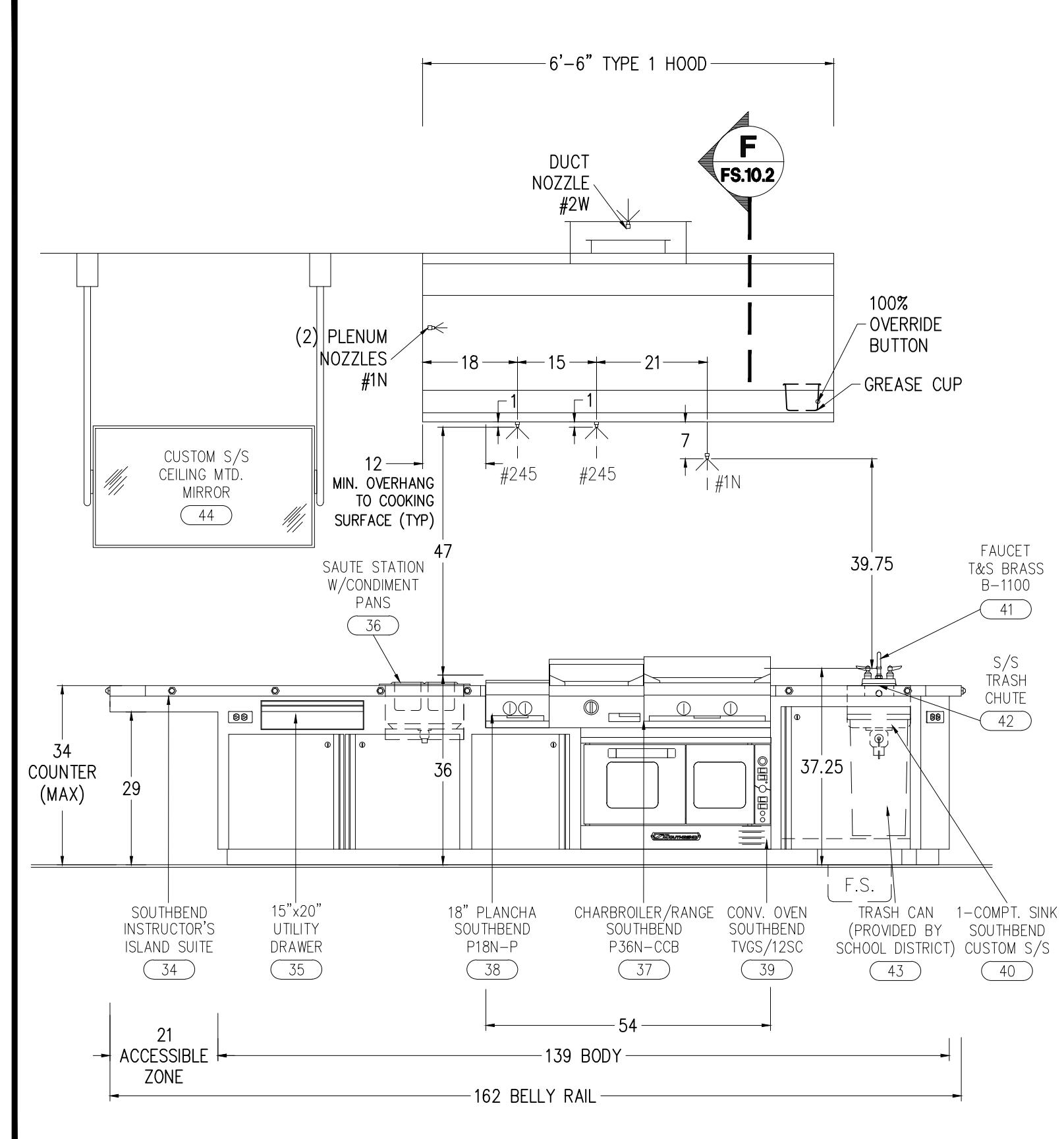
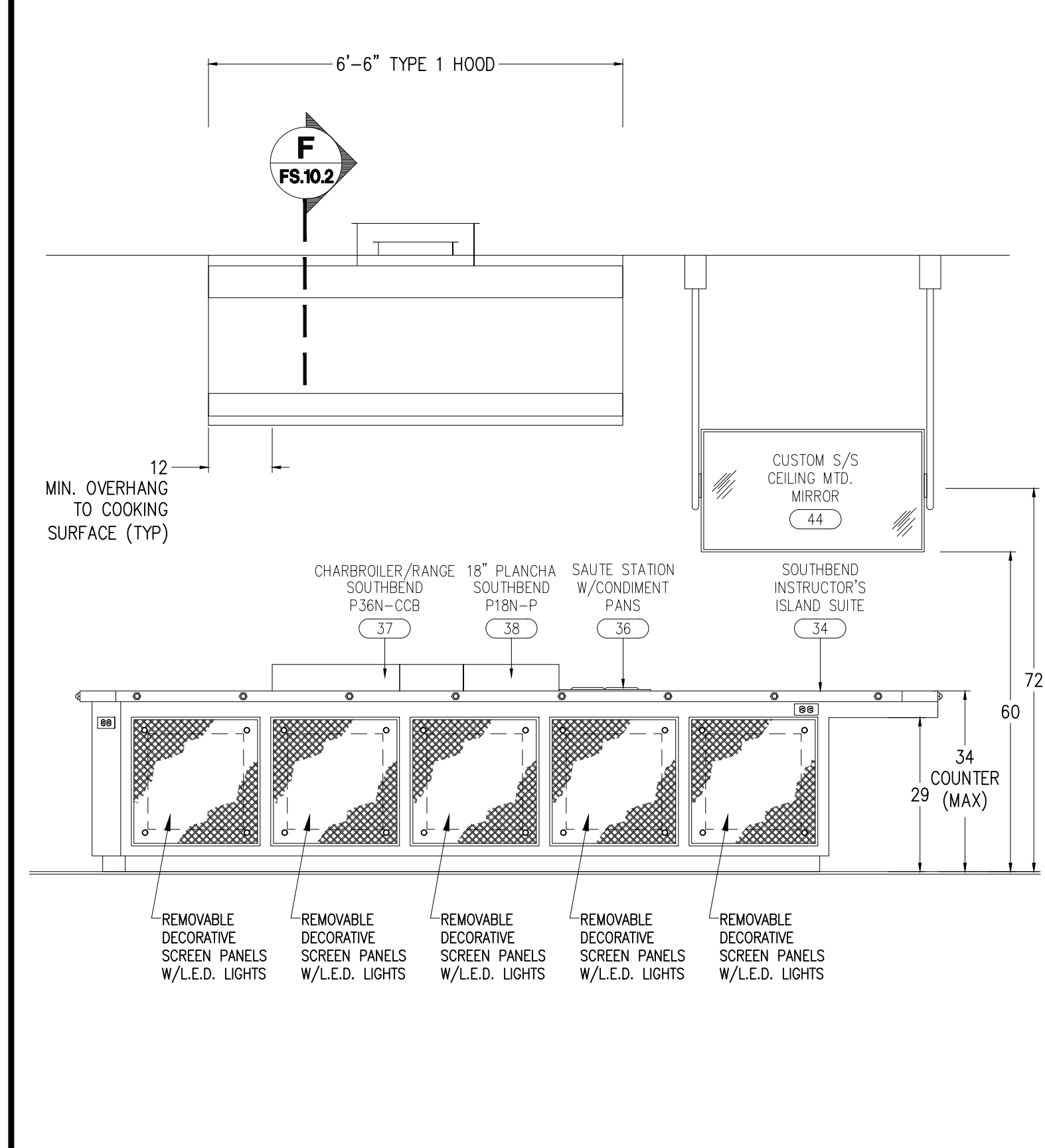
LICENSED ARCHITECT
RICHARD DIELI
SAN DIEGO, CALIFORNIA



A PLAN VIEW of INSTRUCTOR COOKING ISLAND SUITE (Item #34) 1/2"=1'-0"

B PLAN VIEW of HOOD #2 (ITEM #27) - MODEL #ELX-GBD-BBC-CL-AV-60 1/2"=1'-0"

C FIRE SUPPRESSION SYSTEM OF HOOD #2 (Items #30, 31 & 32) - (Isometric View) N.T.S.



VENTILATOR NOTES (NON-WATER WASH)

A) VERIFY ALL MAKES AND MODELS OF COOKING EQUIPMENT AND LOCATION IN RELATION TO VENTILATOR PRIOR TO FABRICATION.

B) FRONT AND REAR MOUNTING BRACKETS HAVE #0.625" HOLES. BRACKETS TO BE SUPPORTED WITHIN 12" OF EACH END OF EACH SECTION, WITH A MAXIMUM SPAN OF 72" BETWEEN SUPPORTS.

C) INTERIOR MOUNTING BRACKET(S) TO BE SUPPORTED WITHIN 36" OF EACH END OF EACH SECTION, WITH A MAXIMUM SPAN OF 72" BETWEEN SUPPORTS.

VERIFY EXHAUST & SUPPLY FANS

A) VERIFY IF THIS HOOD IS EXHAUSTED ON ITS OWN EXHAUST FAN OR IS IT EXHAUSTED ON A COMMON EXHAUST FAN SHARED WITH OTHER HOODS.

B) VERIFY NUMBER OF SUPPLY (MAKE-UP AIR) FANS.

PBW PLENUM FEATURES

- * REMOVABLE S/S PERFORATED PANEL(S)
- * ALL EXPOSED SURFACES ARE STAINLESS STEEL

LIGHTING NOTE

THIS LIGHTING IN THIS VENTILATOR IS DESIGNED TO PROVIDE 50 FOOT CANDLES OF LIGHT AT THE COOKING SURFACE, IF 50 FOOT CANDLES OF LIGHTING IS PROVIDED IN THE SURROUNDING SPACE.

THESE LED FIXTURES ARE PROVIDED WITH LED SMD CHIPS INTEGRATED INTO THE FIXTURE ASSEMBLY, THEREFORE NO SEPARATE BULBS ARE REQUIRED.

ELECTRICAL NOTES (DCV-AV)

① (1) CAT 5 CABLE, FOR CONTROL(S), IN FLEXIBLE CONDUIT, EXTENDING 6' BEYOND END OF VENTILATOR BY GAYLORD. WIRE TO DCV CONTROL CABINET OR NEXT HOOD (IF APPLICABLE) BY ELECTRICAL CONTRACTOR.

* LIGHT FIXTURES, VAPOR PROOF, U.L. LISTED, * FURNISHED, INSTALLED AND WIRED BY GAYLORD.

② (2) WIRES AND GROUND, FOR CONTROL(S) AND LIGHT(S), IN FLEXIBLE CONDUIT, EXTENDING 6' BEYOND END OF VENTILATOR BY GAYLORD. WIRE TO SUPPLY VOLTAGE BY ELECTRICAL CONTRACTOR.

WARNING: ANY CHANGES IN THE HOOD DESIGN OR MAKES/MODELS OF COOKING EQUIPMENT MAY AFFECT THE SIZE OF AND/OR REQUIRED AIRFLOWS FOR THE HOOD. NOTE: COOKING EQUIPMENT MODEL MANUFACTURER & LOCATION MUST BE VERIFIED FOR FIRE SUPPRESSION PRIOR TO FABRICATION.

SHOP NOTE: FP CHASE REQUIRED ON OPPOSITE END FROM GREASE CUP

FIRE SUPPRESSION SYSTEM NOTES ANSUL R-102-ASEF

FP-1) LOCATION OF FIRE SUPPRESSION NOZZLES MUST BE VERIFIED IN RELATION TO THE COOKING EQUIPMENT, PRIOR TO VENTILATOR FABRICATION.

COMPLETE SYSTEM INCLUDING APPLIANCE DROPS AND SURFACE MOUNTED DETECTION BRACKETS, WITH FIELD INSTALLATION BY GAYLORD.

ANSUL FIRE SYSTEM (LISTED TO A U.L. 300) FACTORY PRE-PIPED CHEMICAL LINE INCLUDING DUCT, PLENUM AND APPLIANCE DROPS WITH ALL NOZZLES INSTALLED PER COOKING EQUIPMENT ARRANGEMENT ON GAYLORD APPROVED DRAWINGS. ALL EXPOSED CHEMICAL PIPING CHROME PLATED OR CHROME SLEEVED. INCLUDES FACTORY PRE-PIPED DETECTION LINES WITH SURFACE MOUNTED DETECTOR BRACKETS. INSTALLATION BY CERTIFIED FACTORY INSTALLERS.

INCLUDES:

- * TANK(S) AND RELEASE ASSEMBLY(S)
- * CHEMICAL
- * DETECTOR CABLE
- * FUSIBLE LINKS WITH LINKAGE
- * EXPELLANT GAS CARTRIDGE(S) (PROVIDED BY FIRE SUPPRESSION INSTALLER)
- * (1) REMOTE MANUAL PULL STATION
- * (1) GAS VALVE PER FIRE SYSTEM WITH A MAXIMUM SIZE OF 2-1/2"
- * (1) MANUAL RESET RELAY PER FIRE SYSTEM, IF REQUIRED
- * PLANS AND PERMITS (ON JOBS INSIDE OF THE UNITED STATES AND NON-MARINE JOBS)
- * PARTS AND INSTALLATION OF CHEMICAL AND DETECTION LINES FROM TANK(S) TO CONNECTION POINTS ON HOOD
- * INSTALLATION OF TANKS AND RELATED COMPONENTS
- * INSTALLATION OF DETECTOR CABLE AND FUSIBLE LINKS
- * INSTALLATION OF REMOTE MANUAL PULL STATION
- * JOB SITE REPOSITIONING OF NOZZLES AS PER GAYLORD APPROVED DRAWINGS, IF REQUIRED TO MEET SYSTEM DESIGN REQUIREMENTS
- * TRIP TEST AND CERTIFICATION (ON JOBS INSIDE OF THE UNITED STATES AND NON-MARINE JOBS)

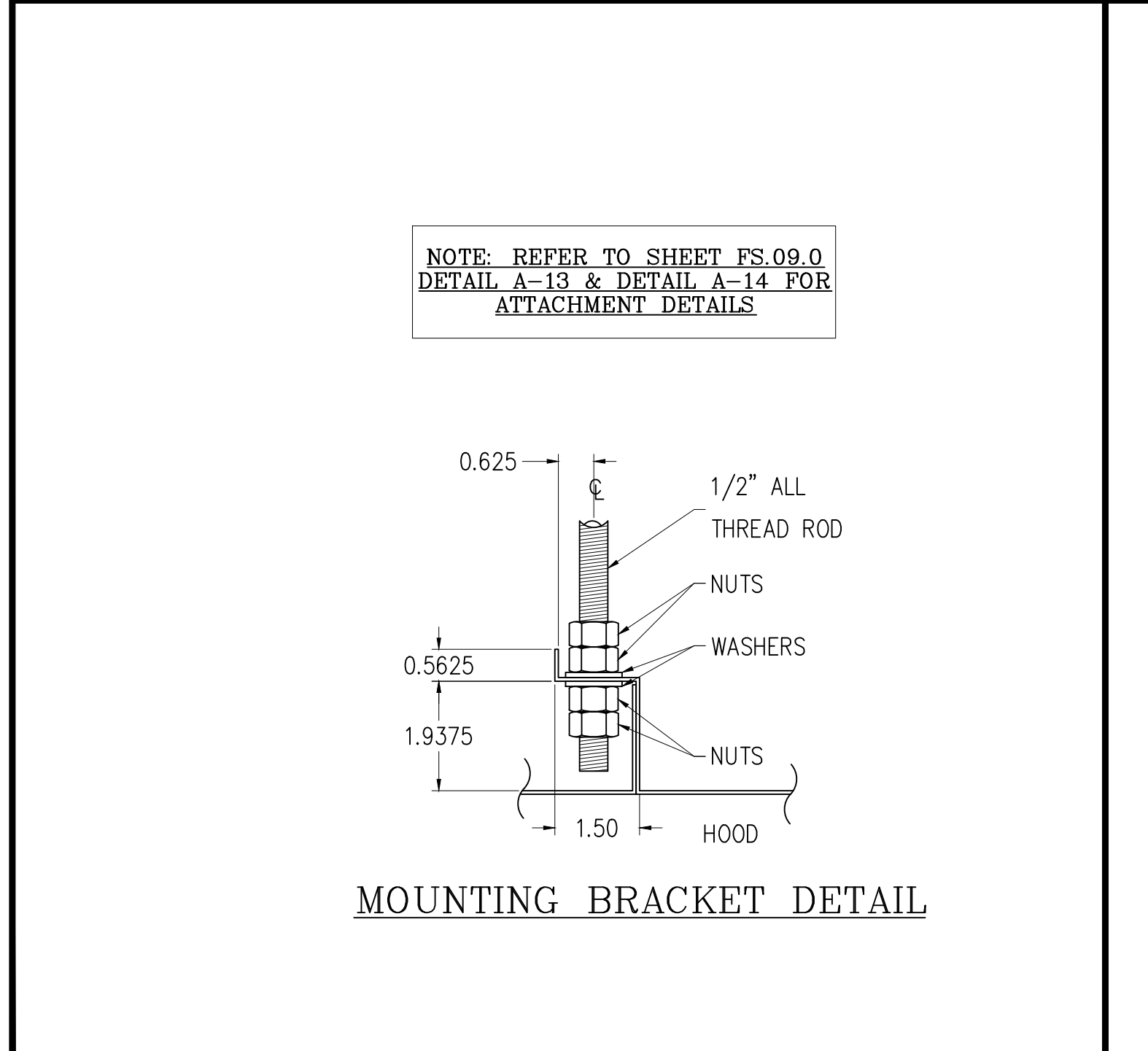
EXCLUDES:

- * UNION LABOR AND PREVAILING WAGE
- * INSTALLATION OF GAS VALVE(S)
- * ELECTRICAL DISCONNECTS
- * PARTS AND LABOR FOR ANY ELECTRICAL INTERCONNECTIONS
- * JOB SITE REPOSITIONING OF NOZZLES IF COOKING EQUIPMENT IS NOT INSTALLED PER GAYLORD APPROVED DRAWINGS
- * PLANS AND PERMITS ON JOBS OUTSIDE OF THE UNITED STATES AND ON MARINE JOBS
- * TRIP TEST AND CERTIFICATION ON JOBS OUTSIDE OF THE UNITED STATES AND ON MARINE JOBS
- * HAND HELD FIRE EXTINGUISHER(S)
- * INSPECTION AND SERVICING
- * RECESSED ANSUL CABINET(S)

D ELEV. VIEW OF HOOD #2 & INSTRUCTOR SUITE (Item #34) 1/2"=1'-0"

E ELEV. VIEW OF HOOD #2 & INSTRUCTOR SUITE (Item #34) 1/2"=1'-0"

F SECTION OF HOOD #2 & INSTRUCTOR SUITE (Item #34) 1/2"=1'-0"



HOOD EXHAUST INFORMATION CHART

ITEM #	DUCT COLLAR	CFM/LF	TOTAL CFM	STATIC PRESSURE	VELOCITY
27	12" X 22"	420	2730	0.48" W.G.	1489 FPM

HOOD SUPPLY INFORMATION CHART

ITEM #	DUCT COLLAR	TOTAL CFM	STATIC PRESSURE	VELOCITY
PBW-27A	10" X 14"	819	0.10" W.G.	842 FPM
PBW-27B	10" X 14"	819	0.10" W.G.	842 FPM

HOOD CARTRIDGES

ITEM #	QTY.	CARTRIDGE	CARTRIDGE SIZE	MAX. RATING
27	8	XGS	11" X 15.5"	280 CFM/LF

HOOD INFORMATION

ITEM NO.	MODEL	SIZE	AIR FLOW REQUIREMENTS		WEIGHT (LBS)					
			DUCT COLLAR	DUCT COLLAR						
27	ELX	78 60 30	0.55	DRNASH	1	0.10	819	14	10	98
PBW-27A	PBW	78 19 8		SUPPLY	1	0.10	819	14	10	98
PBW-27B	PBW	78 19 8		SUPPLY	1	0.10	819	14	10	98

TOTAL HOOD S.P. 0.85" W.G.
TOTAL EXHAUST: 2730 CFM
TOTAL SUPPLY: 1638 CFM

TOTAL WEIGHT: 878 LBS

HOOD NUMBER	APPLIANCE WITH HIGHEST DUTY RATING	APRAISE-154 DUTY RATING	GAYLORD TOTAL AIRFLOW	LENGTH OF HOOD IN FEET	GAYLORD CFM/LF	TABLE HELD-BY MAX ALLOWABLE CFM/LF	COMPLIES WITH SECTION 90.9 CA TITLE 14 (YES/NO)
27	CHARBROILER	HEAVY	2730	6.5	420	420	YES

HOOD MOUNTING DETAILS N.T.S.

HOOD EXHAUST INFORMATION CHART N.T.S.

TYPE 1 EXHAUST HOOD NOTES N.T.S.

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Phone: 619.265.1189
Design By: RICHARD DIELI

APPROVALS

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Architecture/Engineering
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EL CENTRO, CA 92243
760 353 5440 FAX 760 353 5442

Project Title
**CALEXICO UNIFIED SCHOOL DISTRICT
CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
**FOODSERVICE EQUIPMENT
HOOD DETAILS ITEM 27**

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09-12-18

Date Last Revised
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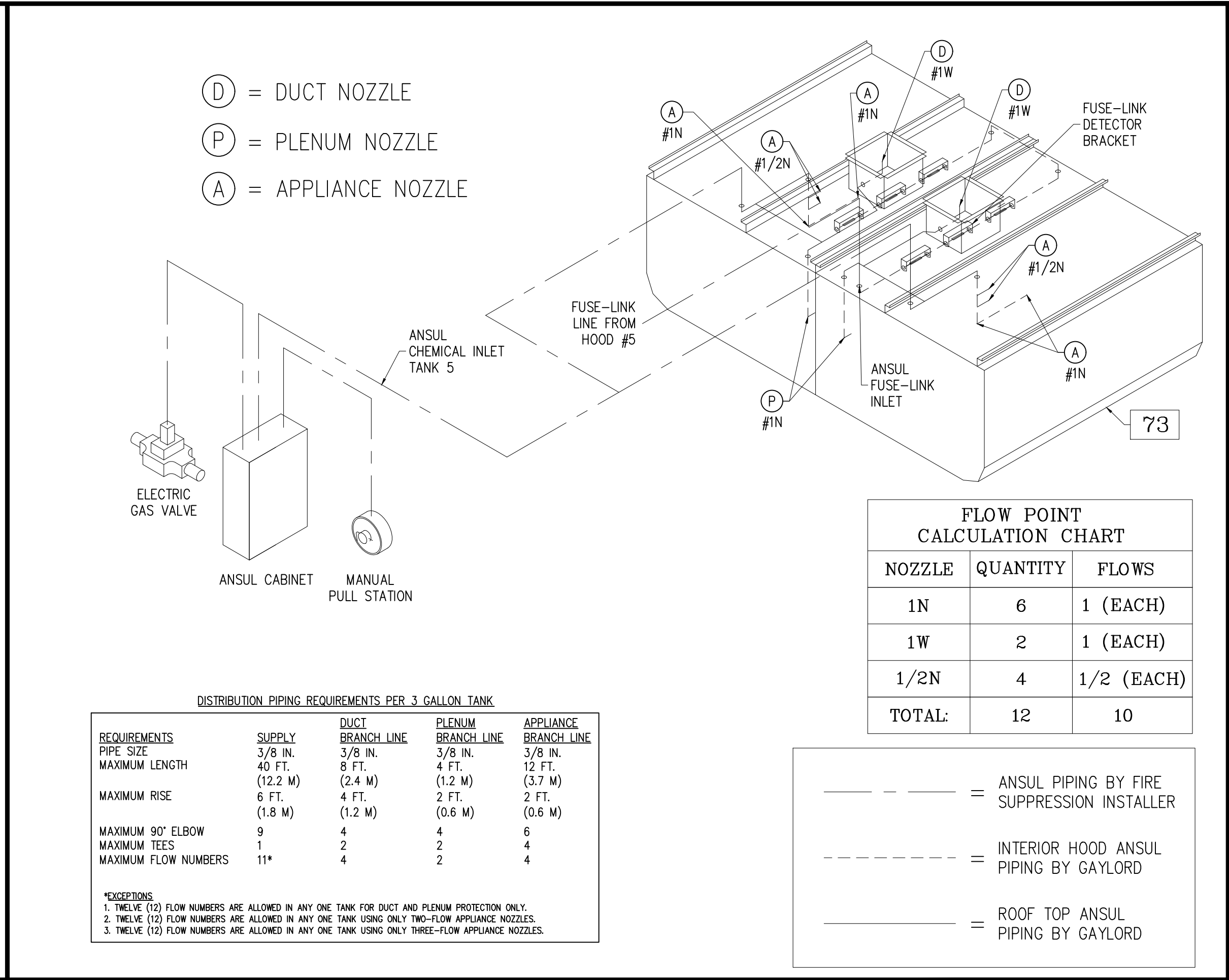
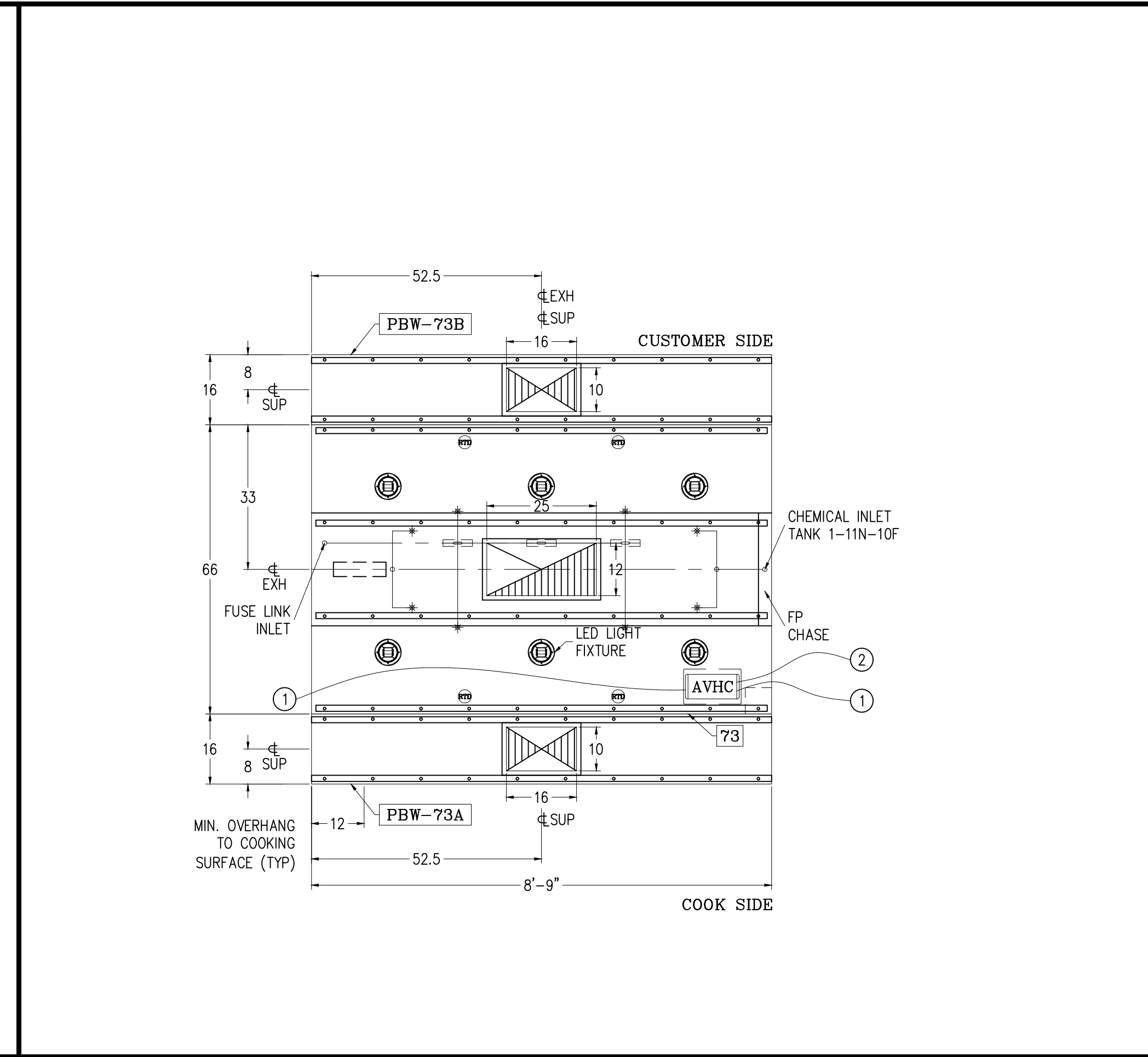
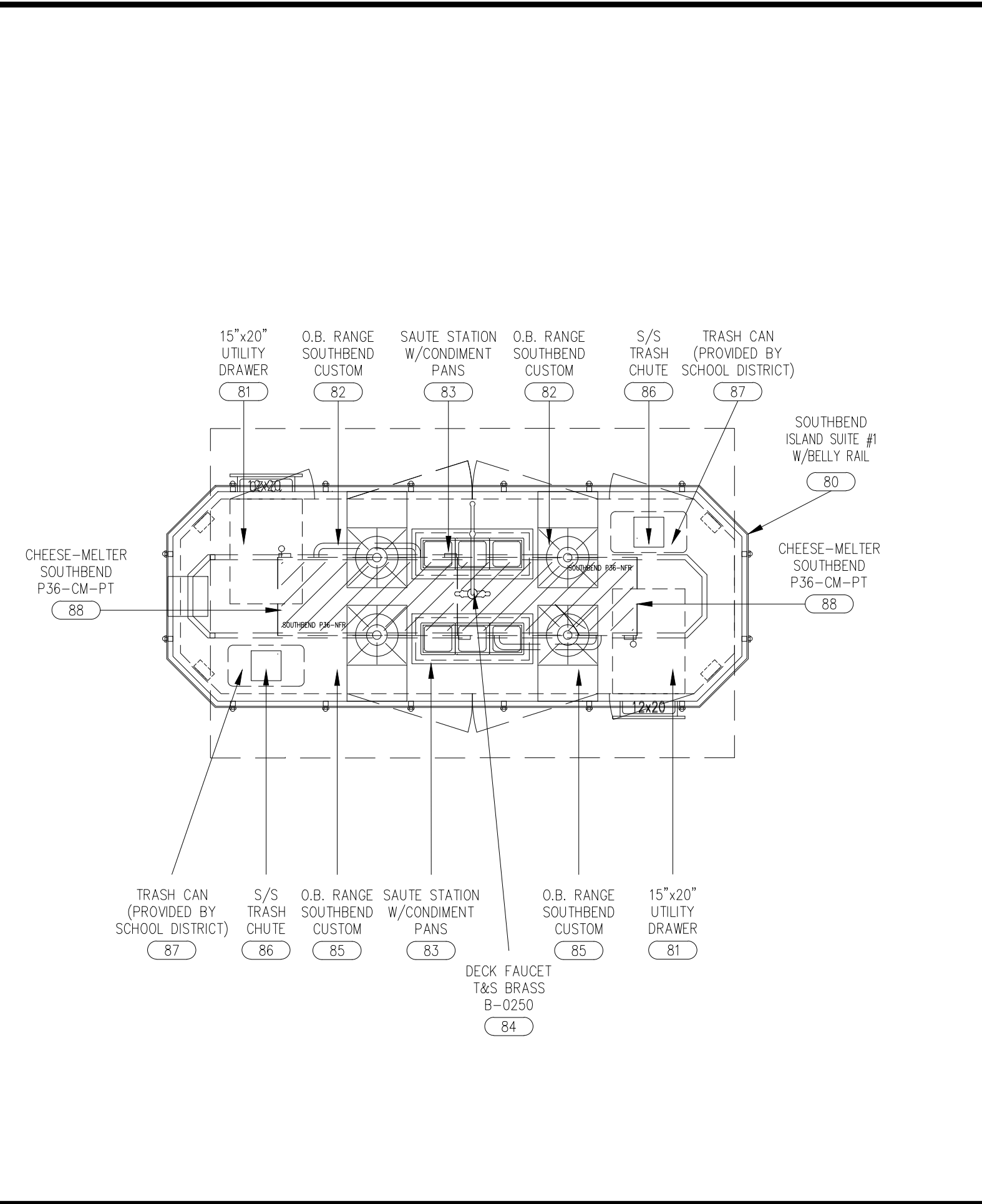
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Sheet Number
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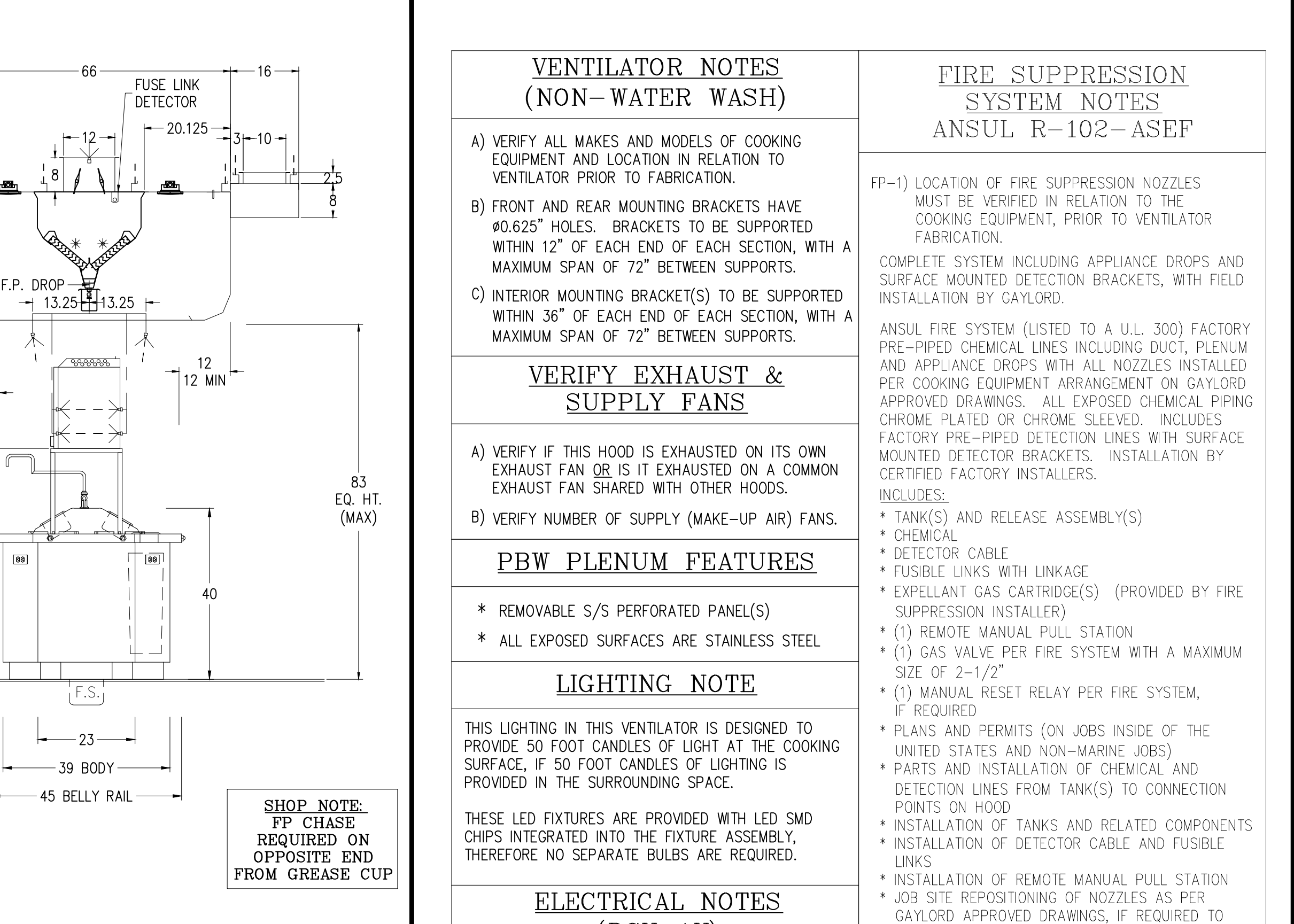
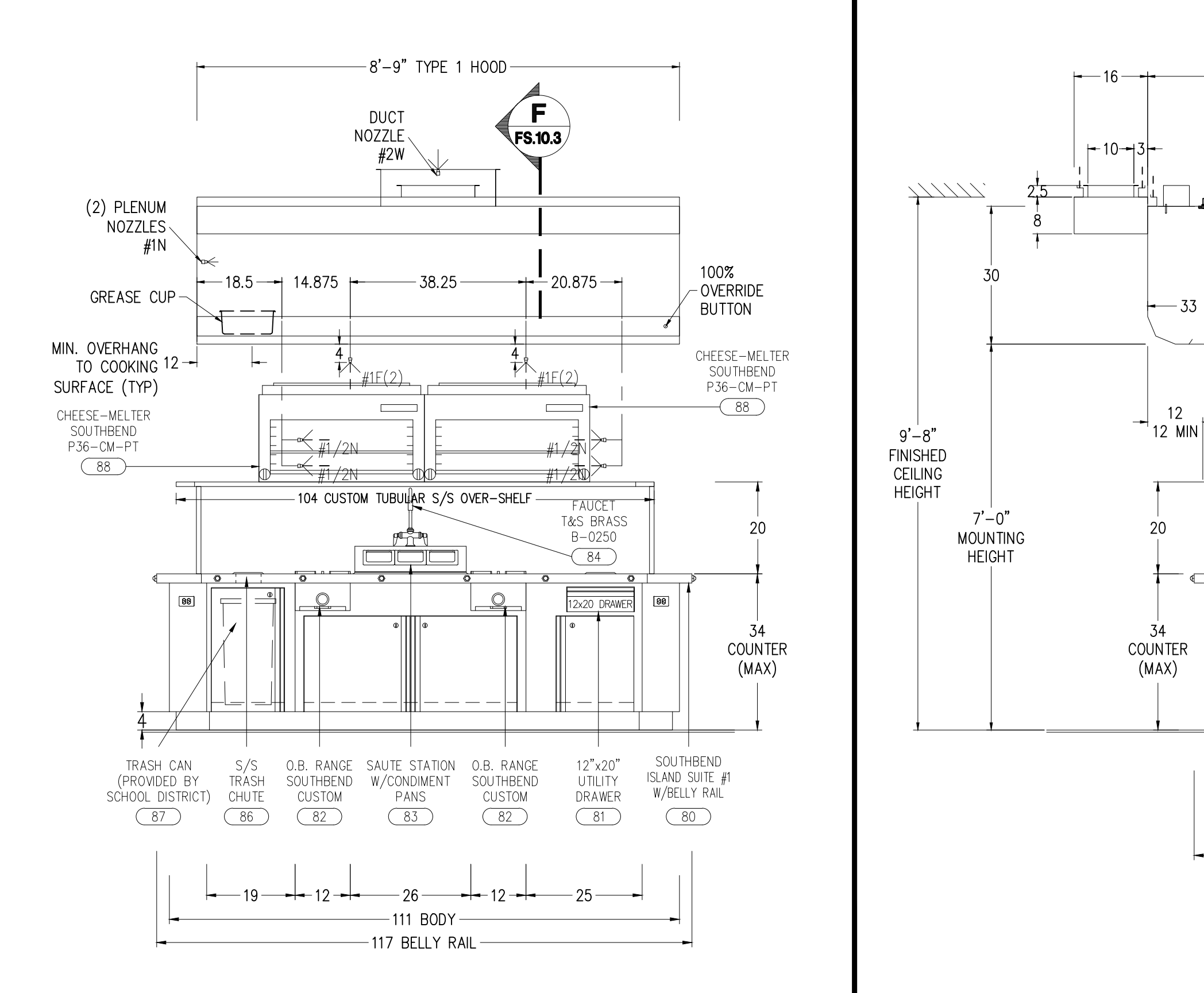
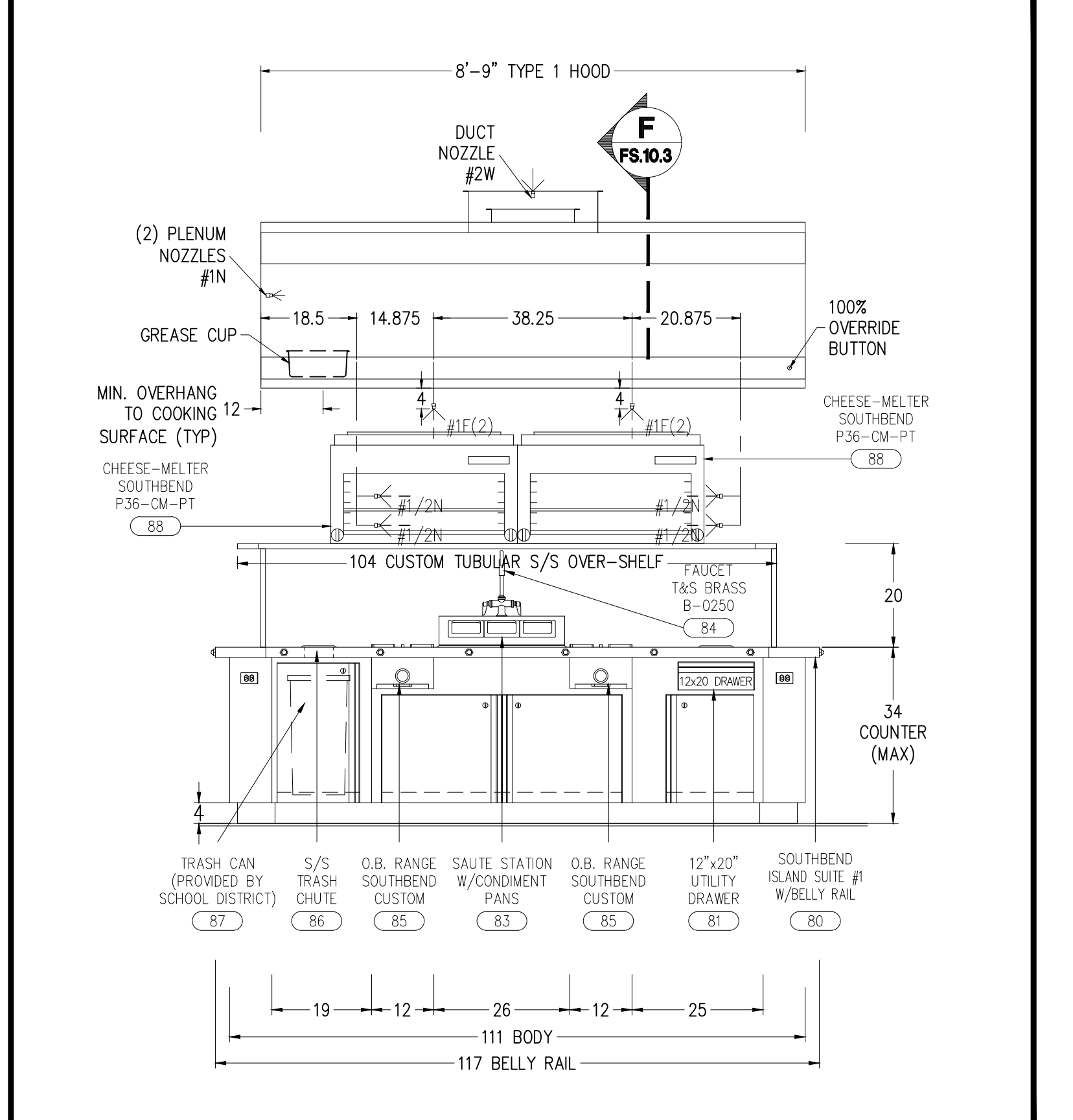
LICENSED ARCHITECT
RICHARD DIELI
No. 10000
Exp. 12/31/2021
CALIFORNIA

LICENSED ARCHITECT
DIELI MURAWKA HOWE
No. 10000
Exp. 12/31/2021
CALIFORNIA

GAYLORD DWG. #18-1014
HOOD #27 MODEL #ELX-GBD-BBC-CL-AV-60
TOTAL HOOD HANGING WEIGHT: 683 LBS
PLENUM BOX #PFW-27 MODEL #PBW-19
TOTAL PLENUM BOX WEIGHT: 196 LBS



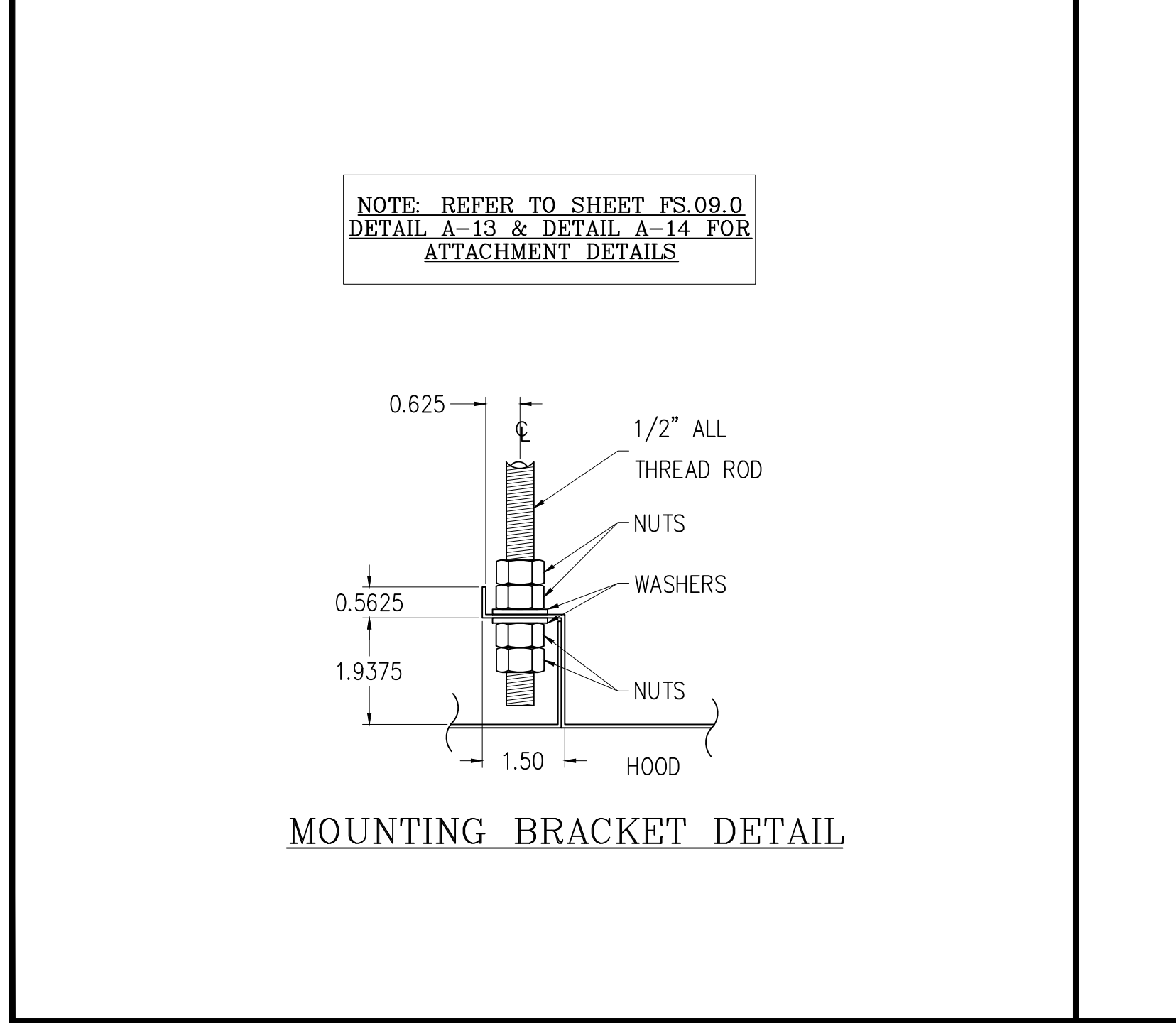
A PLAN VIEW of COOKING ISLAND SUITE #1 (Item #80) 1/2"=1'-0" **B PLAN VIEW of HOOD #3 (ITEM #73) - MODEL #ELX-GBD-BBC-CL-AV-66** 1/2"=1'-0" **C FIRE SUPPRESSION SYSTEM OF HOOD #3 (Items #76, 77 & 78) - (Isometric View)** N.T.S.



D ELEV. VIEW OF HOOD #3 & ISLAND SUITE (Item #80) 1/2"=1'-0"

E ELEV. VIEW OF HOOD #3 & ISLAND SUITE (Item #80) 1/2"=1'-0"

F SECTION OF HOOD #3 & ISLAND SUITE (Item #80) 1/2"=1'-0"



ITEM #	DUCT COLLAR	CFM/LF	TOTAL CFM	STATIC PRESSURE	VELOCITY
73	12" X 25"	350	3060	0.66" W.G.	1469 FPM

ITEM #	DUCT COLLAR	TOTAL CFM	STATIC PRESSURE	VELOCITY
PBW-73A	10" X 16"	918	0.10" W.G.	826 FPM
PBW-73B	10" X 16"	918	0.10" W.G.	826 FPM

ITEM #	QTY.	CARTRIDGE SIZE	MAX. RATING	
73	12	XGS	11" X 15.5"	280 CFM/LF

VENTILATOR NOTES (NON-WATER WASH)

- VERIFY ALL MAKES AND MODELS OF COOKING EQUIPMENT AND LOCATION IN RELATION TO VENTILATOR PRIOR TO FABRICATION.
- FRONT AND REAR MOUNTING BRACKETS HAVE #0.625" HOLES. BRACKETS TO BE SUPPORTED WITHIN 12" OF EACH END OF EACH SECTION, WITH A MAXIMUM SPAN OF 72" BETWEEN SUPPORTS.
- INTERIOR MOUNTING BRACKET(S) TO BE SUPPORTED WITHIN 36" OF EACH END OF EACH SECTION, WITH A MAXIMUM SPAN OF 72" BETWEEN SUPPORTS.

VERIFY EXHAUST & SUPPLY FANS

- VERIFY IF THIS HOOD IS EXHAUSTED ON ITS OWN EXHAUST FAN OR IS IT EXHAUSTED ON A COMMON EXHAUST FAN SHARED WITH OTHER HOODS.
- VERIFY NUMBER OF SUPPLY (MAKE-UP AIR) FANS.

PBW PLENUM FEATURES

- * REMOVABLE S/S PERFORATED PANEL(S)
- * ALL EXPOSED SURFACES ARE STAINLESS STEEL

LIGHTING NOTE

THIS LIGHTING IN THIS VENTILATOR IS DESIGNED TO PROVIDE 50 FOOT CANDLES OF LIGHT AT THE COOKING SURFACE, IF 50 FOOT CANDLES OF LIGHTING IS PROVIDED IN THE SURROUNDING SPACE.

THESE LED FIXTURES ARE PROVIDED WITH LED SMD CHIPS INTEGRATED INTO THE FIXTURE ASSEMBLY, THEREFORE NO SEPARATE BULBS ARE REQUIRED.

ELECTRICAL NOTES (DCV-AV)

- (1) CAT 5 CABLE, FOR CONTROL(S), IN FLEXIBLE CONDUIT, EXTENDING 6' BEYOND END OF VENTILATOR BY GAYLORD. WIRED TO DCV CONTROL CABINET OR NEXT HOOD (IF APPLICABLE) BY ELECTRICAL CONTRACTOR.
- (2) WRES AND GROUND, FOR CONTROL(S) AND LIGHT(S), IN FLEXIBLE CONDUIT, EXTENDING 6' BEYOND END OF VENTILATOR BY GAYLORD. WIRED TO SUPPLY VOLTAGE BY ELECTRICAL CONTRACTOR.

WARNING: ANY CHANGES IN THE HOOD DESIGN OR MAKES/MODELS OF COOKING EQUIPMENT MAY AFFECT THE SIZE OF AND/OR REQUIRED AIRFLOWS FOR THE HOOD.

NOTE: COOKING EQUIPMENT MODEL MANUFACTURER & LOCATION MUST BE VERIFIED FOR FIRE SUPPRESSION PRIOR TO FABRICATION.

NOTE: REFER TO SHEET FS.05.8 FOR ADDITIONAL INFORMATION FOR THE DCV CONTROL CABINET & WIRING DETAILS

INTERTEK
E.T.L. LISTING #3192993CRT-002

GAYLORD DWG. #18-1014
HOOD #73 MODEL #ELX-GBD-BBC-CL-AV-66
TOTAL HOOD HANGING WEIGHT: 963 LBS
PLENUM BOX #PBW-73 MODEL #PBW-16
TOTAL PLENUM BOX WEIGHT: 264 LBS

VENTILATOR NOTES (NON-WATER WASH)

FIRE SUPPRESSION SYSTEM NOTES
ANSUL R-102-ASEF

FP-1) LOCATION OF FIRE SUPPRESSION NOZZLES MUST BE VERIFIED IN RELATION TO THE COOKING EQUIPMENT, PRIOR TO VENTILATOR FABRICATION.

COMPLETE SYSTEM INCLUDING APPLIANCE DROPS AND SURFACE MOUNTED DETECTION BRACKETS, WITH FIELD INSTALLATION BY GAYLORD.

ANSUL FIRE SYSTEM (LISTED TO A U.L. 300) FACTORY PRE-PIPED CHEMICAL LINES INCLUDING DUCT, PLENUM AND APPLIANCE DROPS WITH ALL NOZZLES INSTALLED PER COOKING EQUIPMENT ARRANGEMENT ON GAYLORD APPROVED DRAWINGS. ALL EXPOSED CHEMICAL PIPING CHROME PLATED OR CHROME SLEEVED. INCLUDES FACTORY PRE-PIPED DETECTION LINES WITH SURFACE MOUNTED DETECTOR BRACKETS. INSTALLATION BY CERTIFIED FACTORY INSTALLERS.

INCLUDES:

- * TANK(S) AND RELEASE ASSEMBLY(S)
- * CHEMICAL DETECTOR CABLE
- * FUSIBLE LINKS WITH LINKAGE
- * EXPELLANT GAS CARTRIDGE(S) (PROVIDED BY FIRE SUPPRESSION INSTALLER)
- * (1) REMOTE MANUAL PULL STATION
- * (1) GAS VALVE PER FIRE SYSTEM WITH A MAXIMUM SIZE OF 2-1/2"
- * (1) MANUAL RESET RELAY PER FIRE SYSTEM, IF REQUIRED
- * PLANS AND PERMITS (ON JOBS INSIDE OF THE UNITED STATES AND NON-MARINE JOBS)
- * PARTS AND INSTALLATION OF CHEMICAL AND DETECTION LINES FROM TANK(S) TO CONNECTION POINTS ON HOOD
- * INSTALLATION OF TANKS AND RELATED COMPONENTS
- * INSTALLATION OF DETECTOR CABLE AND FUSIBLE LINKS
- * INSTALLATION OF REMOTE MANUAL PULL STATION
- * JOB SITE REPOSITIONING OF NOZZLES AS PER GAYLORD APPROVED DRAWINGS, IF REQUIRED TO MEET SYSTEM DESIGN REQUIREMENTS
- * TRIP TEST AND CERTIFICATION (ON JOBS INSIDE OF THE UNITED STATES AND NON-MARINE JOBS)

EXCLUDES:

- * UNION LABOR AND PREVAILING WAGE
- * INSTALLATION OF GAS VALVE(S)
- * ELECTRICAL DISCONNECTS
- * PARTS AND LABOR FOR ANY ELECTRICAL INTERCONNECTIONS
- * JOB SITE REPOSITIONING OF NOZZLES IF COOKING EQUIPMENT IS NOT INSTALLED PER GAYLORD APPROVED DRAWINGS
- * PLANS AND PERMITS ON JOBS OUTSIDE OF THE UNITED STATES AND ON MARINE JOBS
- * TRIP TEST AND CERTIFICATION ON JOBS OUTSIDE OF THE UNITED STATES AND ON MARINE JOBS
- * HAND HELD FIRE EXTINGUISHER(S)
- * INSPECTION AND SERVICING
- * RECESSED ANSUL CABINET(S)

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Project Title
CALEXICO UNIFIED SCHOOL DISTRICT
CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION

Sheet Title
FOODSERVICE EQUIPMENT
HOOD DETAILS ITEM 73

Document Date
09-12-18

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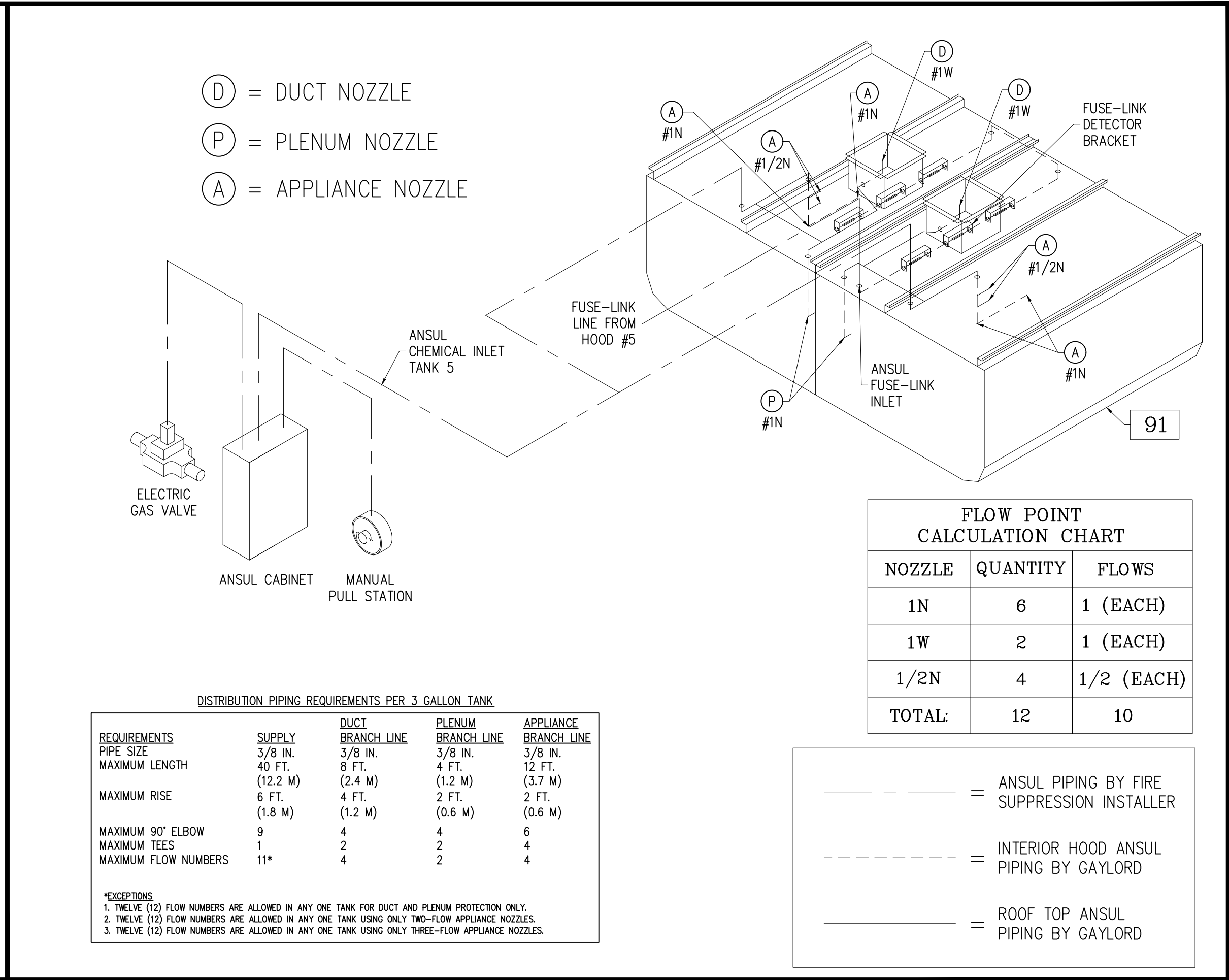
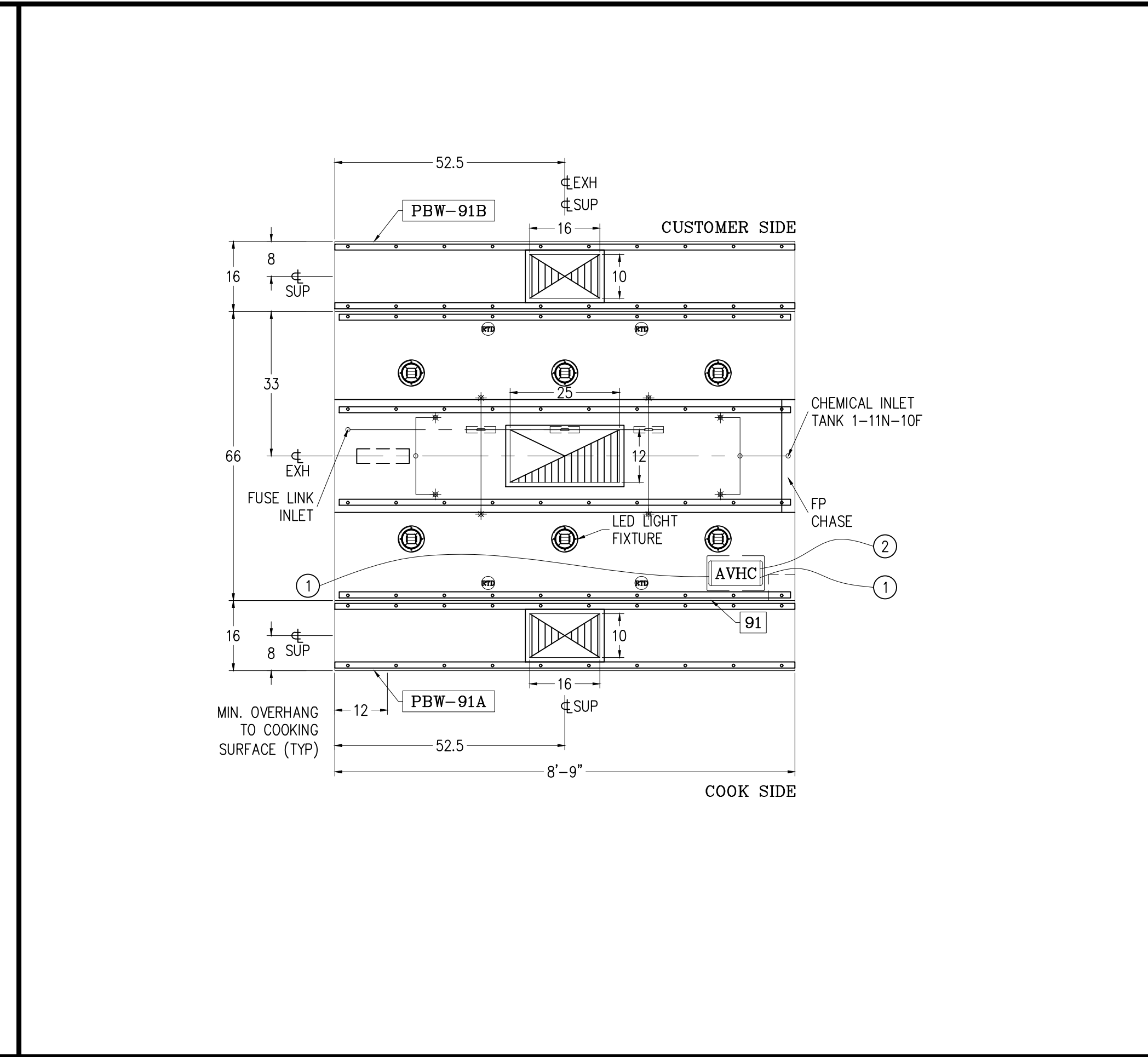
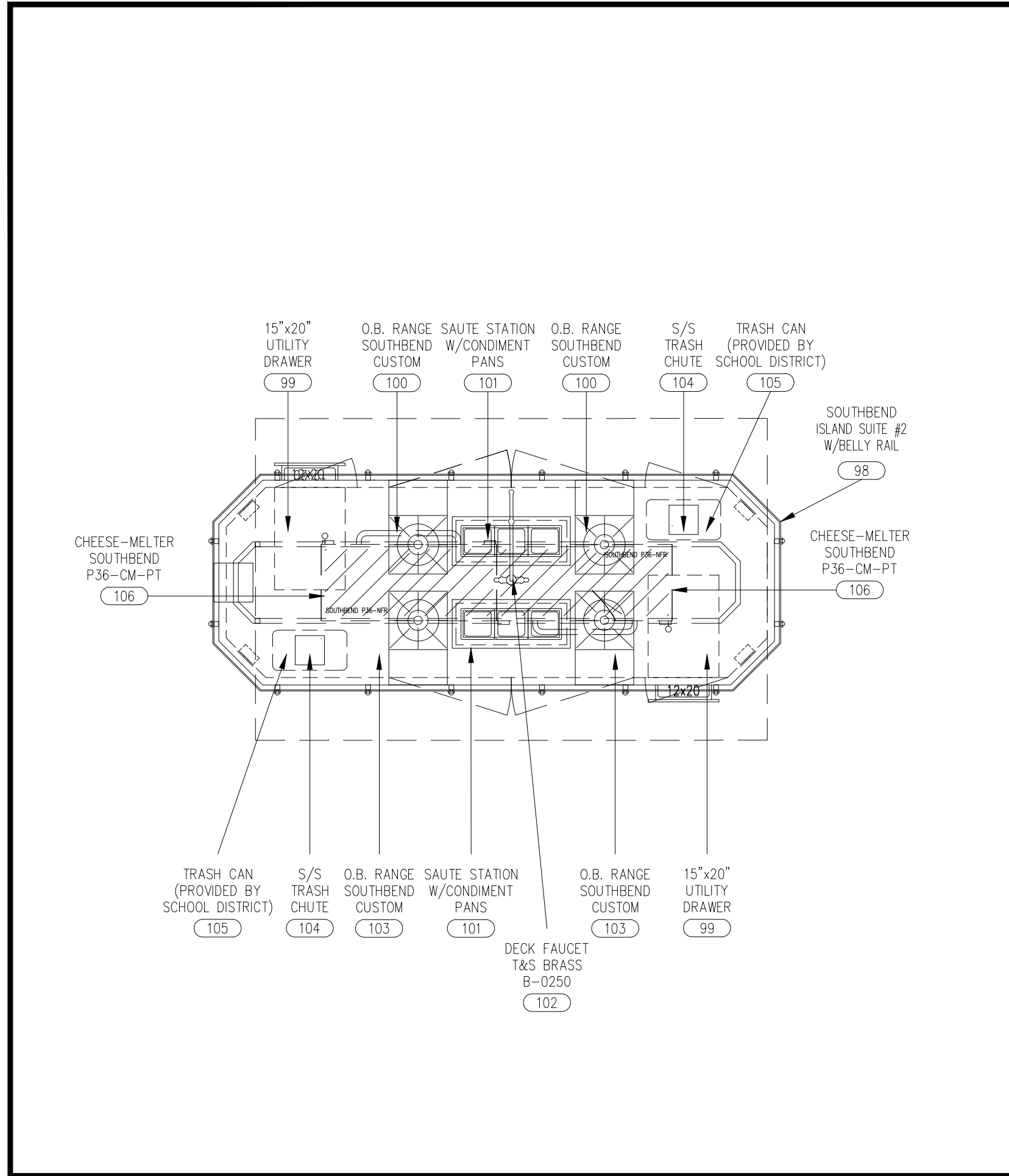
Project Number
18-25CX

Sheet Number
FS.10.3

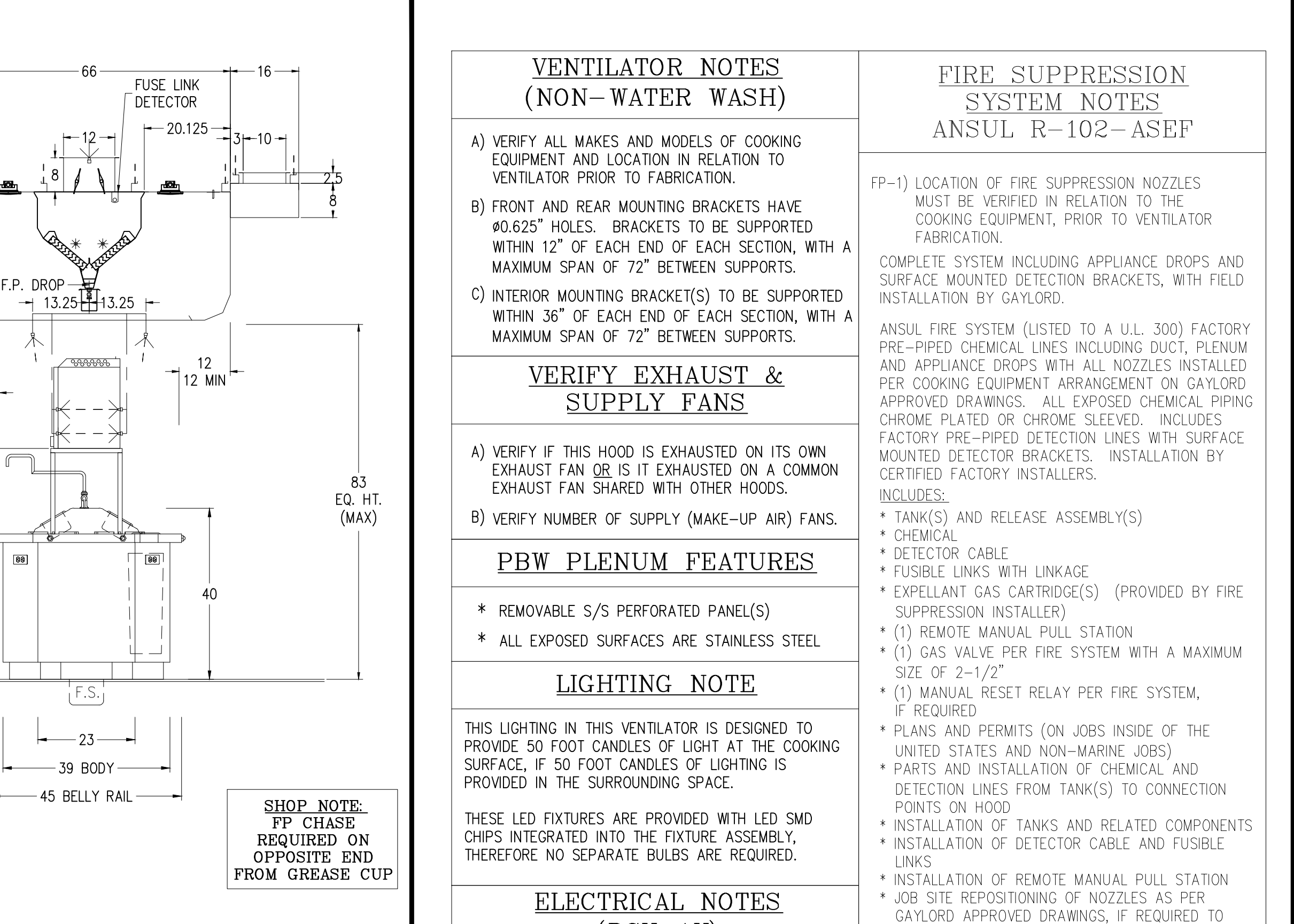
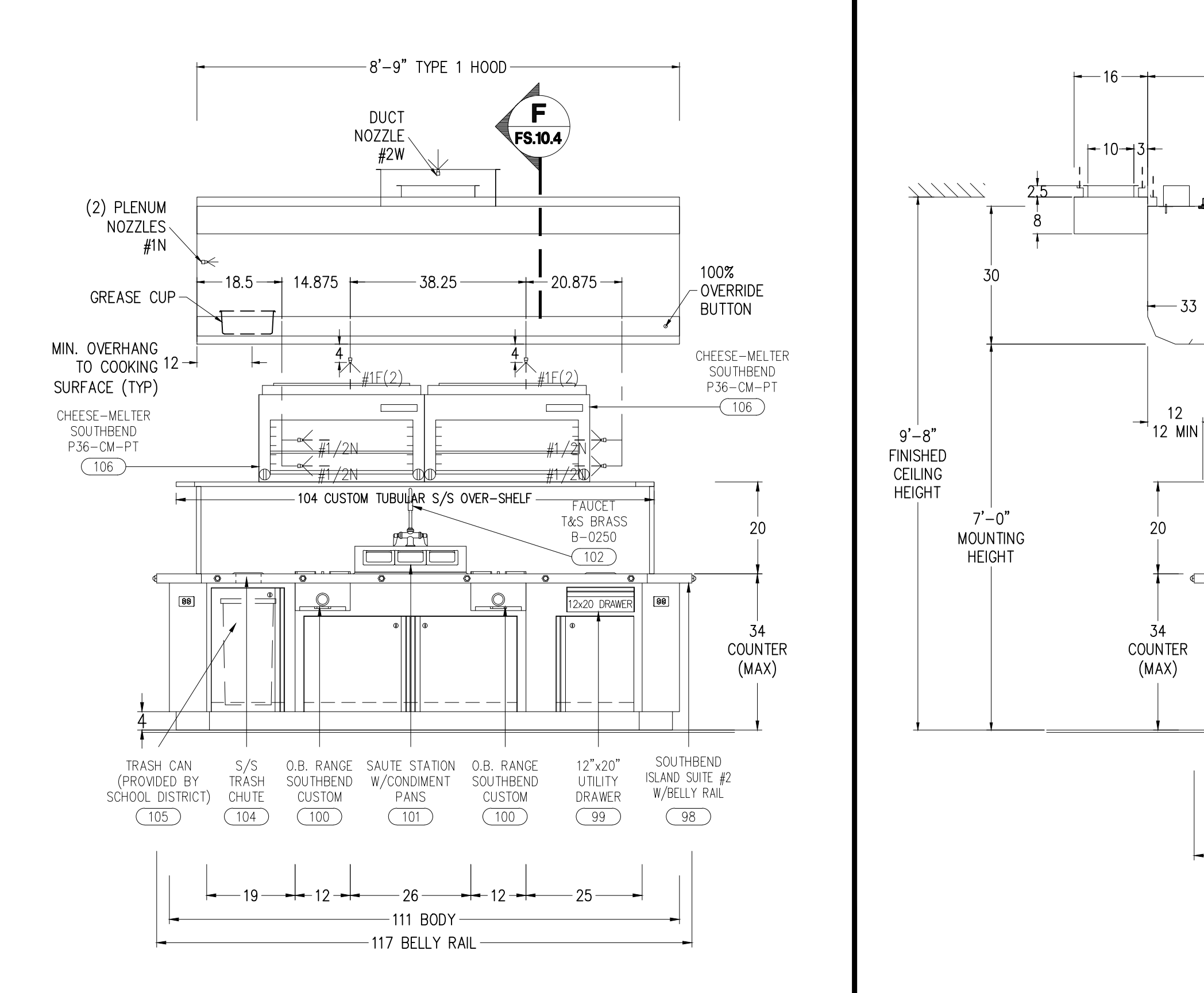
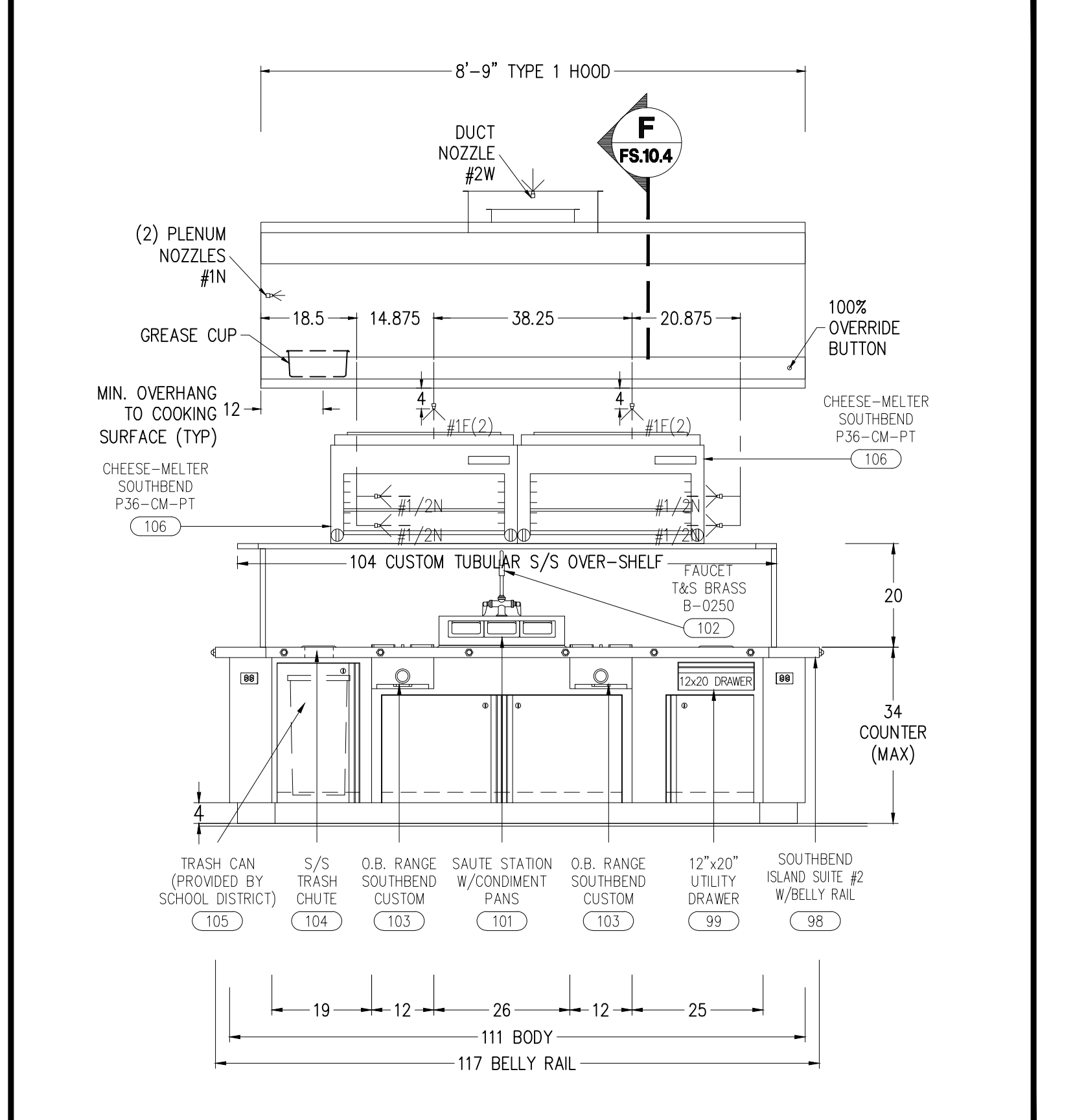
INTERTEK
E.T.L. LISTING #3192993CRT-002

GAYLORD DWG. #18-1014
HOOD #73 MODEL #ELX-GBD-BBC-CL-AV-66
TOTAL HOOD HANGING WEIGHT: 963 LBS
PLENUM BOX #PBW-73 MODEL #PBW-16
TOTAL PLENUM BOX WEIGHT: 264 LBS

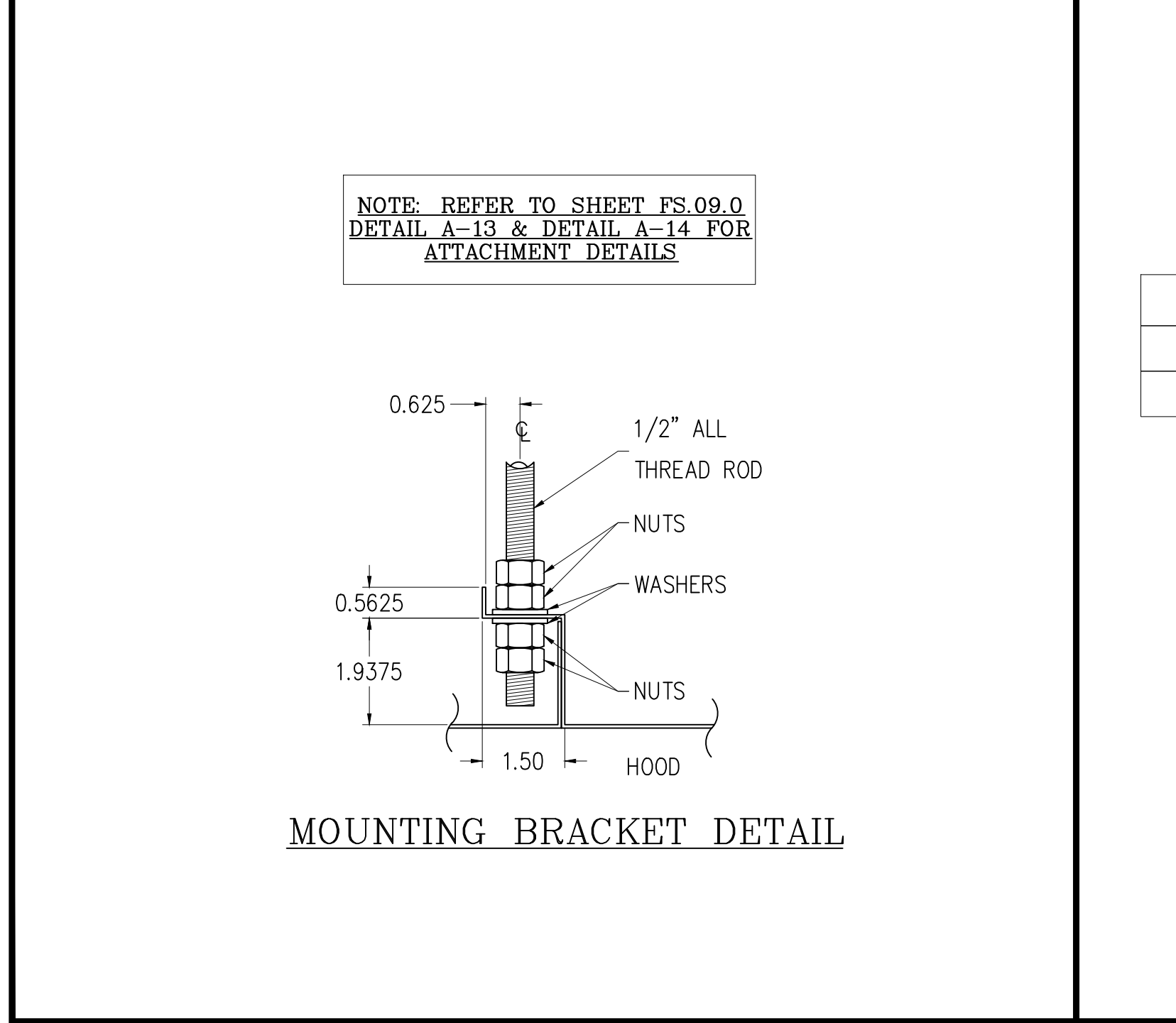
G HOOD MOUNTING DETAILS N.T.S. **H HOOD EXHAUST INFORMATION CHART** N.T.S. **J TYPE 1 EXHAUST HOOD NOTES** N.T.S.



A PLAN VIEW of COOKING ISLAND SUITE #2 (Item #98) 1/2"=1'-0" **B** PLAN VIEW of HOOD #4 (ITEM #91) - MODEL #ELX-GBD-BBC-CL-AV-66 1/2"=1'-0" **C** FIRE SUPPRESSION SYSTEM OF HOOD #4 (Items #94, 95 & 96) - (Isometric View) N.T.S.



D ELEV. VIEW OF HOOD #4 & ISLAND SUITE (Item #98) 1/2"=1'-0" **E** ELEV. VIEW OF HOOD #4 & ISLAND SUITE (Item #98) 1/2"=1'-0" **F** SECTION OF HOOD #4 & ISLAND SUITE (Item #98) 1/2"=1'-0"



ITEM #	DUCT COLLAR	CFM/LF	TOTAL CFM	STATIC PRESSURE	VELOCITY
91	12" X 25"	350	3060	0.66" W.G.	1469 FPM

ITEM #	DUCT COLLAR	TOTAL CFM	STATIC PRESSURE	VELOCITY
PBW-91A	10" X 16"	918	0.10" W.G.	826 FPM
PBW-91B	10" X 16"	918	0.10" W.G.	826 FPM

ITEM #	QTY.	CARTRIDGE SIZE	MAX RATING
91	12	XGS	11" X 15.5"

ITEM NO.	MODEL	SIZE	SP. TEST RPT. (W.C.)	DUCT TYPE	DUCT COLLAR (EACH)	SIZE	WEIGHT (LBS)						
91	ELX	105	66	30	0.33	EXHAUST	1	0.66	3060	25	12	963	
	PBW-91A	PBW	105	16	8	0.10	SUPPLY	1	0.10	918	16	10	132
	PBW-91B	PBW	105	16	8	0.10	SUPPLY	1	0.10	918	16	10	132

HOOD NUMBER	APPLIANCE WITH HIGHEST DUTY RATING	ASHRAE-154 DUTY RATING	ANSI/UL-154 AIRFLOW	ANSI/UL-154 GAYLORD TOTAL GPM/LF	LENGTH OF HOOD IN FEET	ANSI/UL-154 GAYLORD GPM/LF	TABLE 140.9-A MAX ALLOWABLE GPM/LF	COMPLIES WITH SECTION 140.9 OF THE IBC (YES/NO)
91	RANGE	MEDIUM	3060	8.75	300	300	300	YES

VENTILATOR NOTES (NON-WATER WASH)

A) VERIFY ALL MAKES AND MODELS OF COOKING EQUIPMENT AND LOCATION IN RELATION TO VENTILATOR PRIOR TO FABRICATION.

B) FRONT AND REAR MOUNTING BRACKETS HAVE Ø0.625" HOLES. BRACKETS TO BE SUPPORTED WITHIN 12" OF EACH END OF EACH SECTION, WITH A MAXIMUM SPAN OF 72" BETWEEN SUPPORTS.

C) INTERIOR MOUNTING BRACKET(S) TO BE SUPPORTED WITHIN 36" OF EACH END OF EACH SECTION, WITH A MAXIMUM SPAN OF 72" BETWEEN SUPPORTS.

VERIFY EXHAUST & SUPPLY FANS

A) VERIFY IF THIS HOOD IS EXHAUSTED ON ITS OWN EXHAUST FAN OR IS IT EXHAUSTED ON A COMMON EXHAUST FAN SHARED WITH OTHER HOODS.

B) VERIFY NUMBER OF SUPPLY (MAKE-UP AIR) FANS.

PBW PLENUM FEATURES

- * REMOVABLE S/S PERFORATED PANEL(S)
- * ALL EXPOSED SURFACES ARE STAINLESS STEEL

LIGHTING NOTE

THIS LIGHTING IN THIS VENTILATOR IS DESIGNED TO PROVIDE 50 FOOT CANDLES OF LIGHT AT THE COOKING SURFACE, IF 50 FOOT CANDLES OF LIGHTING IS PROVIDED IN THE SURROUNDING SPACE.

THESE LED FIXTURES ARE PROVIDED WITH LED SMD CHIPS INTEGRATED INTO THE FIXTURE ASSEMBLY, THEREFORE NO SEPARATE BULBS ARE REQUIRED.

ELECTRICAL NOTES (DCV-AV)

① (1) CAT 5 CABLE, FOR CONTROL(S), IN FLEXIBLE CONDUIT, EXTENDING 6' BEYOND END OF VENTILATOR BY GAYLORD. WIRED TO DCV CONTROL CABINET OR NEXT HOOD (IF APPLICABLE) BY ELECTRICAL CONTRACTOR.

* LIGHT FIXTURES, VAPOR PROOF, U.L. LISTED, * FURNISHED, INSTALLED AND WIRED BY GAYLORD.

② (2) WIRES AND GROUND, FOR CONTROL(S) AND LIGHT(S), IN FLEXIBLE CONDUIT, EXTENDING 6' BEYOND END OF VENTILATOR BY GAYLORD. WIRED TO SUPPLY VOLTAGE BY ELECTRICAL CONTRACTOR.

WARNING: ANY CHANGES IN THE HOOD DESIGN OR MAKES/MODELS OF COOKING EQUIPMENT MAY AFFECT THE SIZE OF AND/OR REQUIRED AIRFLOWS FOR THE HOOD.

NOTE: COOKING EQUIPMENT MODEL, MANUFACTURER & LOCATION MUST BE VERIFIED FOR FIRE SUPPRESSION PRIOR TO FABRICATION.

VENTILATOR NOTES (NON-WATER WASH)

FIRE SUPPRESSION SYSTEM NOTES ANSUL R-102-ASEF

FP-1) LOCATION OF FIRE SUPPRESSION NOZZLES MUST BE VERIFIED IN RELATION TO THE COOKING EQUIPMENT, PRIOR TO VENTILATOR FABRICATION.

COMPLETE SYSTEM INCLUDING APPLIANCE DROPS AND SURFACE MOUNTED DETECTION BRACKETS, WITH FIELD INSTALLATION BY GAYLORD.

ANSUL FIRE SYSTEM (LISTED TO A U.L. 300) FACTORY PRE-PIPED CHEMICAL LINES INCLUDING DUCT, PLENUM AND APPLIANCE DROPS WITH ALL NOZZLES INSTALLED PER COOKING EQUIPMENT ARRANGEMENT ON GAYLORD APPROVED DRAWINGS. ALL EXPOSED CHEMICAL PIPING CHROME PLATED OR CHROME SLEEVED. INCLUDES FACTORY PRE-PIPED DETECTION LINES WITH SURFACE MOUNTED DETECTOR BRACKETS. INSTALLATION BY CERTIFIED FACTORY INSTALLERS.

INCLUDES:

- * TANK(S) AND RELEASE ASSEMBLY(S)
- * CHEMICAL
- * DETECTOR CABLE
- * FUSIBLE LINKS WITH LINKAGE
- * EXPELLANT GAS CARTRIDGE(S) (PROVIDED BY FIRE SUPPRESSION INSTALLER)
- * (1) REMOTE MANUAL PULL STATION
- * (1) GAS VALVE PER FIRE SYSTEM WITH A MAXIMUM SIZE OF 2-1/2"
- * (1) MANUAL RESET RELAY PER FIRE SYSTEM, IF REQUIRED
- * PLANS AND PERMITS (ON JOBS INSIDE OF THE UNITED STATES AND NON-MARINE JOBS)
- * PARTS AND INSTALLATION OF CHEMICAL AND DETECTION LINES FROM TANK(S) TO CONNECTION POINTS ON HOOD
- * INSTALLATION OF TANKS AND RELATED COMPONENTS
- * INSTALLATION OF DETECTOR CABLE AND FUSIBLE LINKS
- * INSTALLATION OF REMOTE MANUAL PULL STATION
- * JOB SITE REPOSITIONING OF NOZZLES AS PER GAYLORD APPROVED DRAWINGS, IF REQUIRED TO MEET SYSTEM DESIGN REQUIREMENTS
- * TRIP TEST AND CERTIFICATION (ON JOBS INSIDE OF THE UNITED STATES AND NON-MARINE JOBS)

EXCLUDES:

- * UNION LABOR AND PREVAILING WAGE
- * INSTALLATION OF GAS VALVE(S)
- * ELECTRICAL DISCONNECTS
- * PARTS AND LABOR FOR ANY ELECTRICAL INTERCONNECTIONS
- * JOB SITE REPOSITIONING OF NOZZLES IF COOKING EQUIPMENT IS NOT INSTALLED PER GAYLORD APPROVED DRAWINGS
- * PLANS AND PERMITS ON JOBS OUTSIDE OF THE UNITED STATES AND ON MARINE JOBS
- * TRIP TEST AND CERTIFICATION ON JOBS OUTSIDE OF THE UNITED STATES AND ON MARINE JOBS
- * HAND HELD FIRE EXTINGUISHER(S)
- * INSPECTION AND SERVICING
- * RECESSED ANSUL CABINET(S)

NOTE: REFER TO SHEET FS.05.8 FOR ADDITIONAL INFORMATION FOR THE DCV CONTROL CABINET & WIRING DETAILS

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Project Title
CALEXICO UNIFIED SCHOOL DISTRICT
CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION

Sheet Title
FOODSERVICE EQUIPMENT
HOOD DETAILS ITEM 91

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Date Last Revised
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Sheet Number
FS.10.4

Intertek
E.T.L. LISTING #3192993CRT-002

GAYLORD DWG. #18-1014
HOOD #91 MODEL #ELX-GBD-BBC-CL-AV-66
TOTAL HOOD HANGING WEIGHT: 963 LBS
PLENUM BOX #PBW-91 MODEL #PBW-16
TOTAL PLENUM BOX WEIGHT: 264 LBS

G HOOD MOUNTING DETAILS N.T.S. **H** HOOD EXHAUST INFORMATION CHART N.T.S. **J** TYPE 1 EXHAUST HOOD NOTES N.T.S.

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Project Title
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CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION

Sheet Title
FOODSERVICE EQUIPMENT
HOOD DETAILS ITEM 91

Document Date
09-12-18

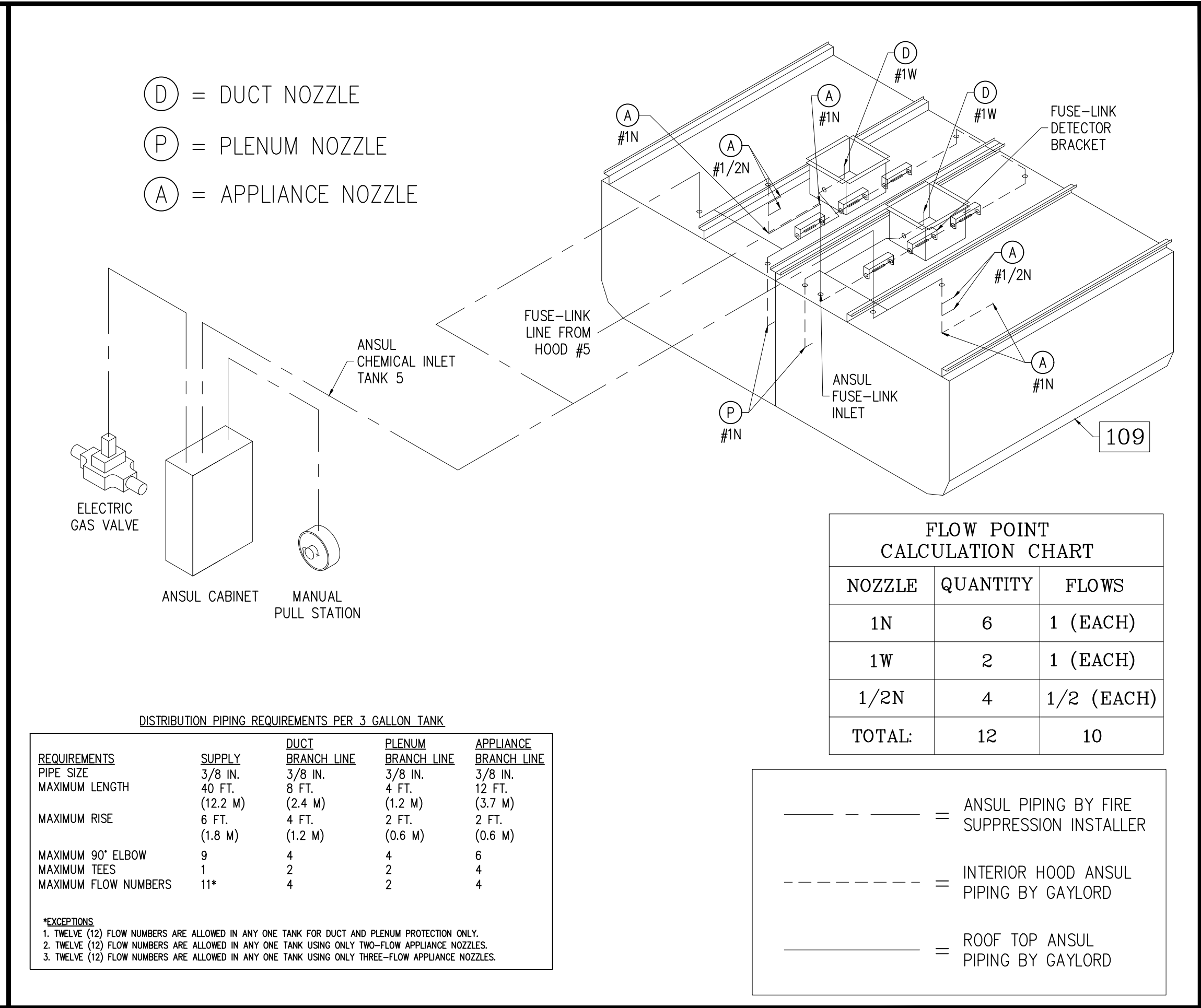
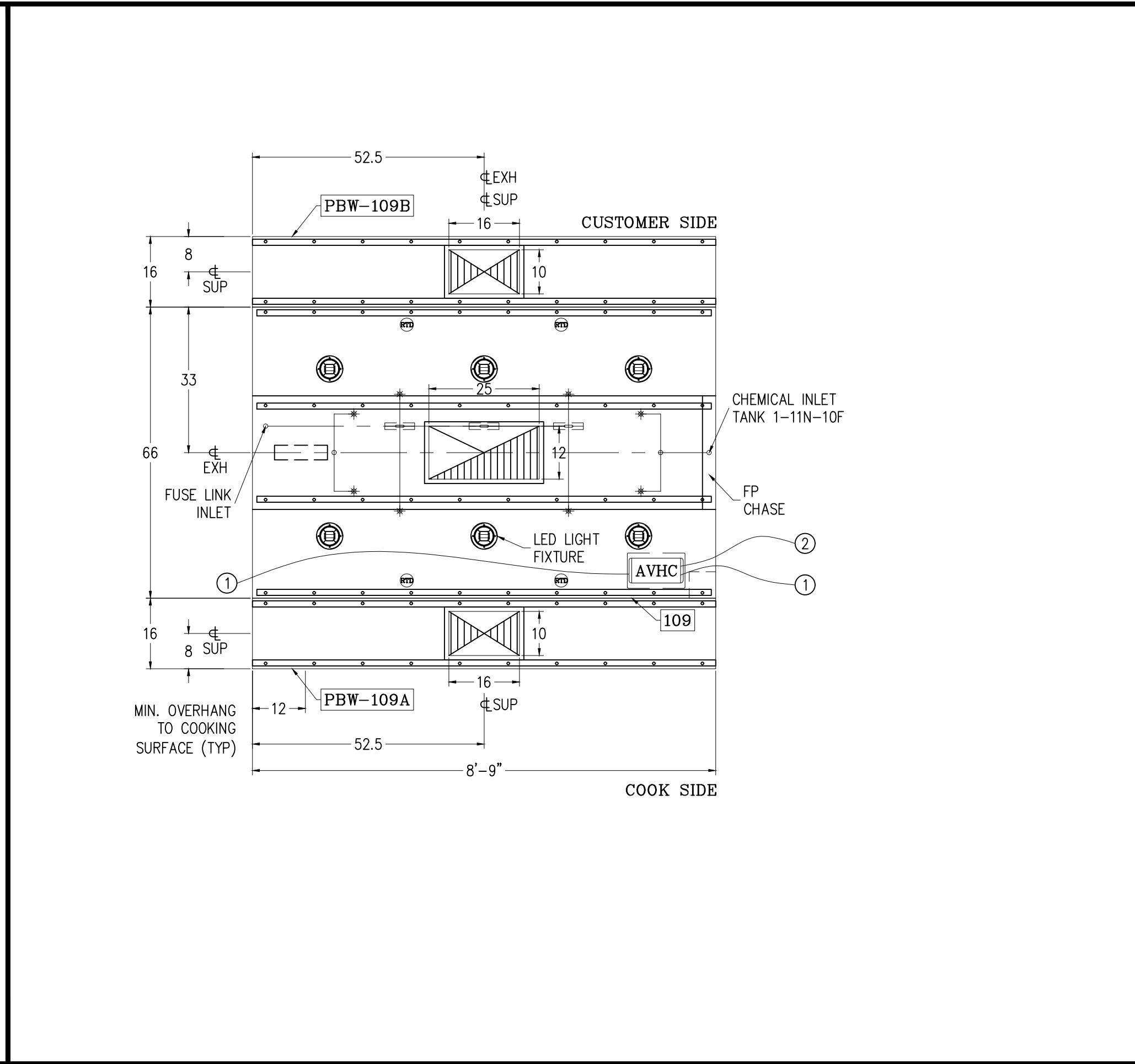
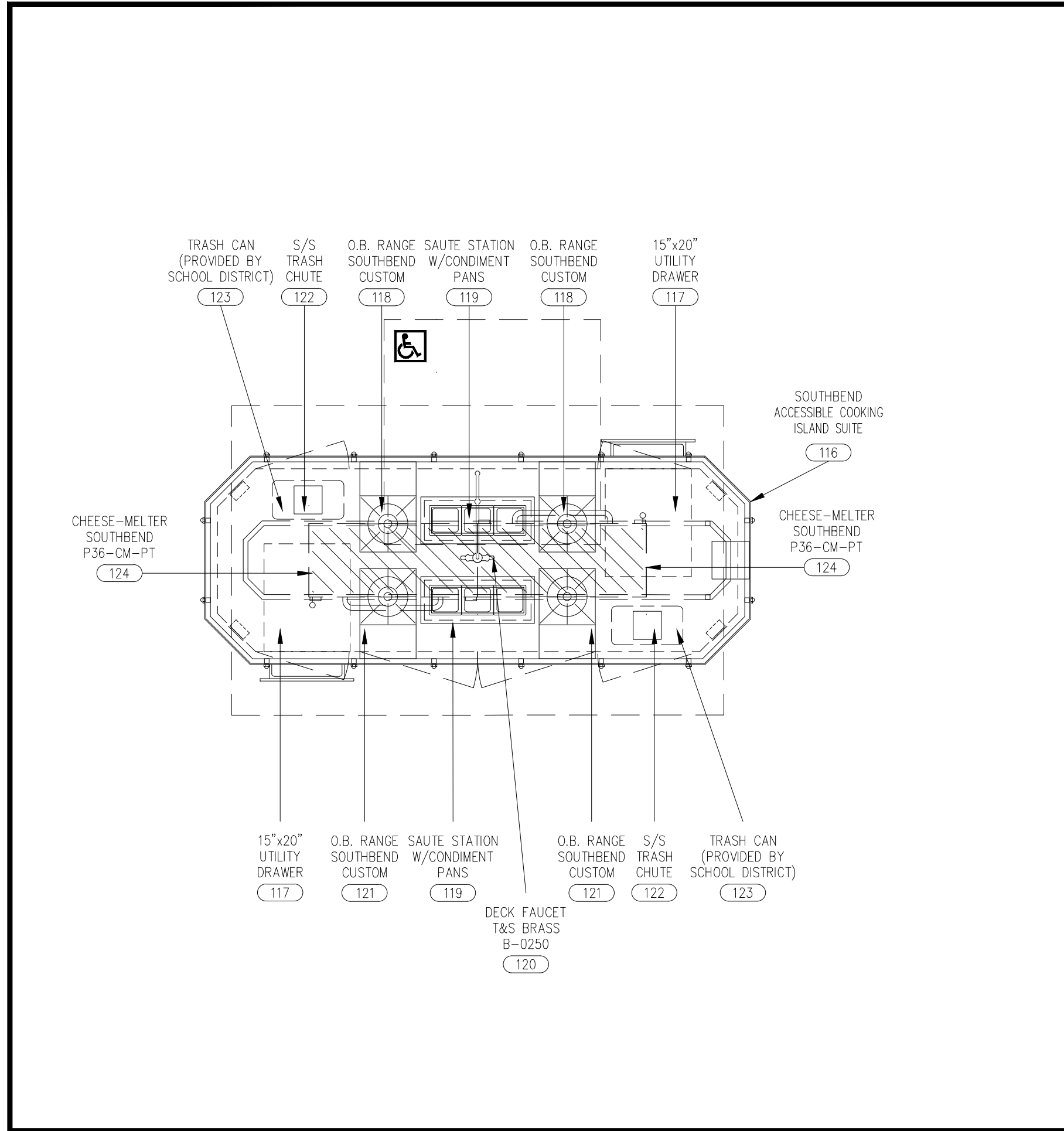
Date Last Revised
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Project Number
18-25CX

Sheet Number
FS.10.4

Intertek
E.T.L. LISTING #3192993CRT-002

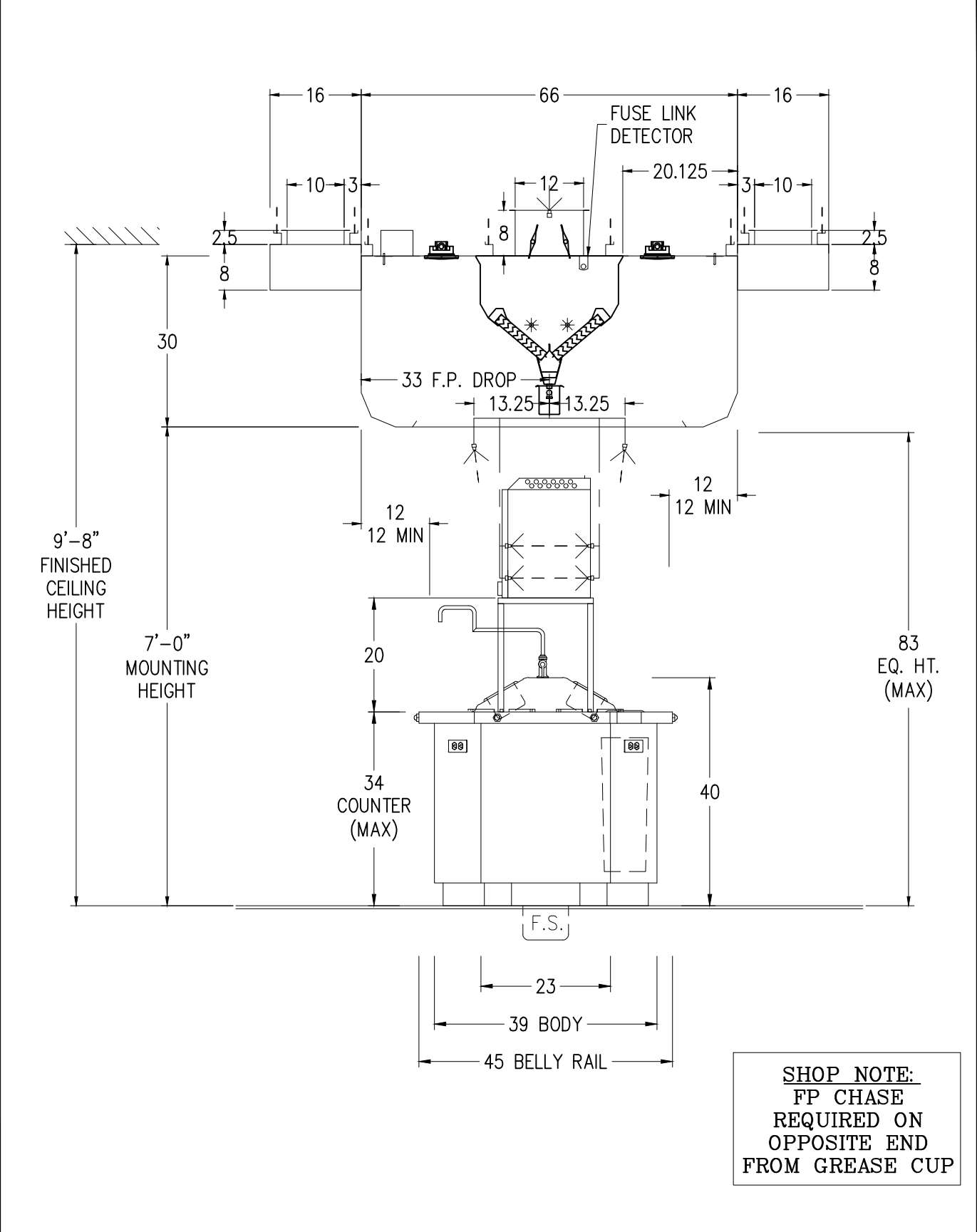
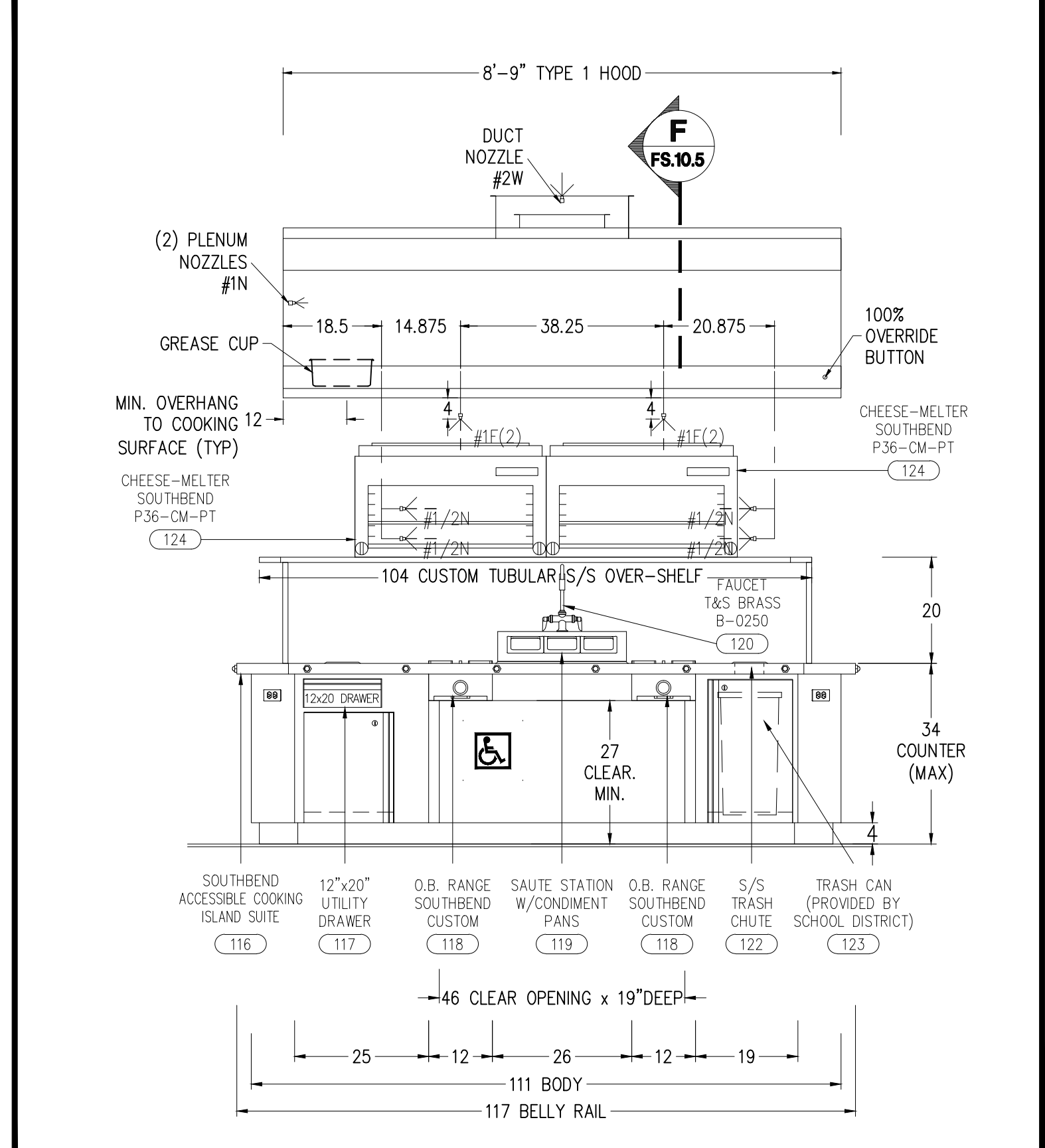
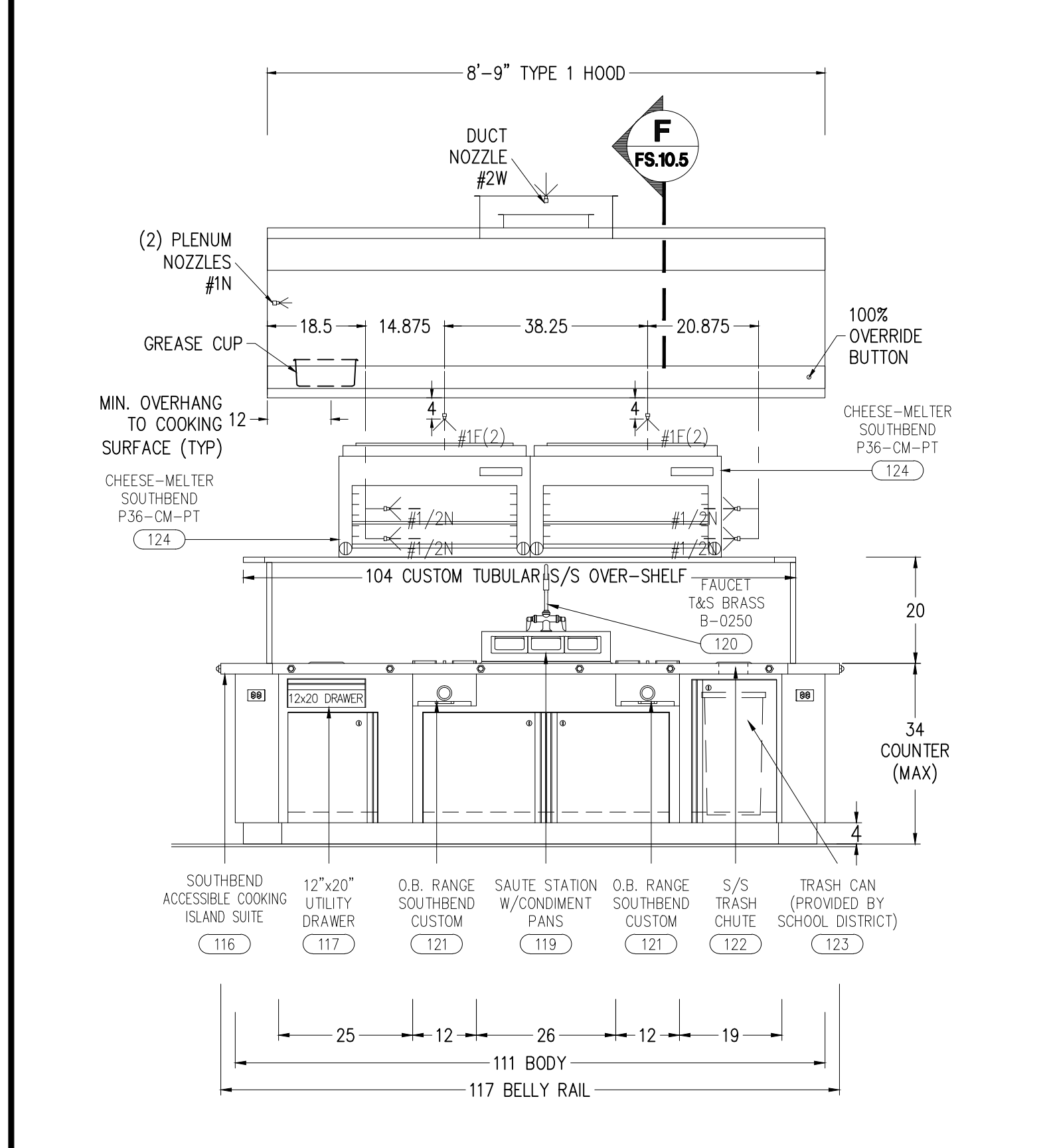
GAYLORD DWG. #18-1014
HOOD #91 MODEL #ELX-GBD-BBC-CL-AV-66
TOTAL HOOD HANGING WEIGHT: 963 LBS
PLENUM BOX #PBW-91 MODEL #PBW-16
TOTAL PLENUM BOX WEIGHT: 264 LBS



A PLAN VIEW of ACCESSIBLE COOKING ISLAND SUITE (Item #116) 1/2"=1'-0"

B PLAN VIEW of HOOD #5 (ITEM #109) - MODEL #ELX-GBD-BBC-CL-AV-66 1/2"=1'-0"

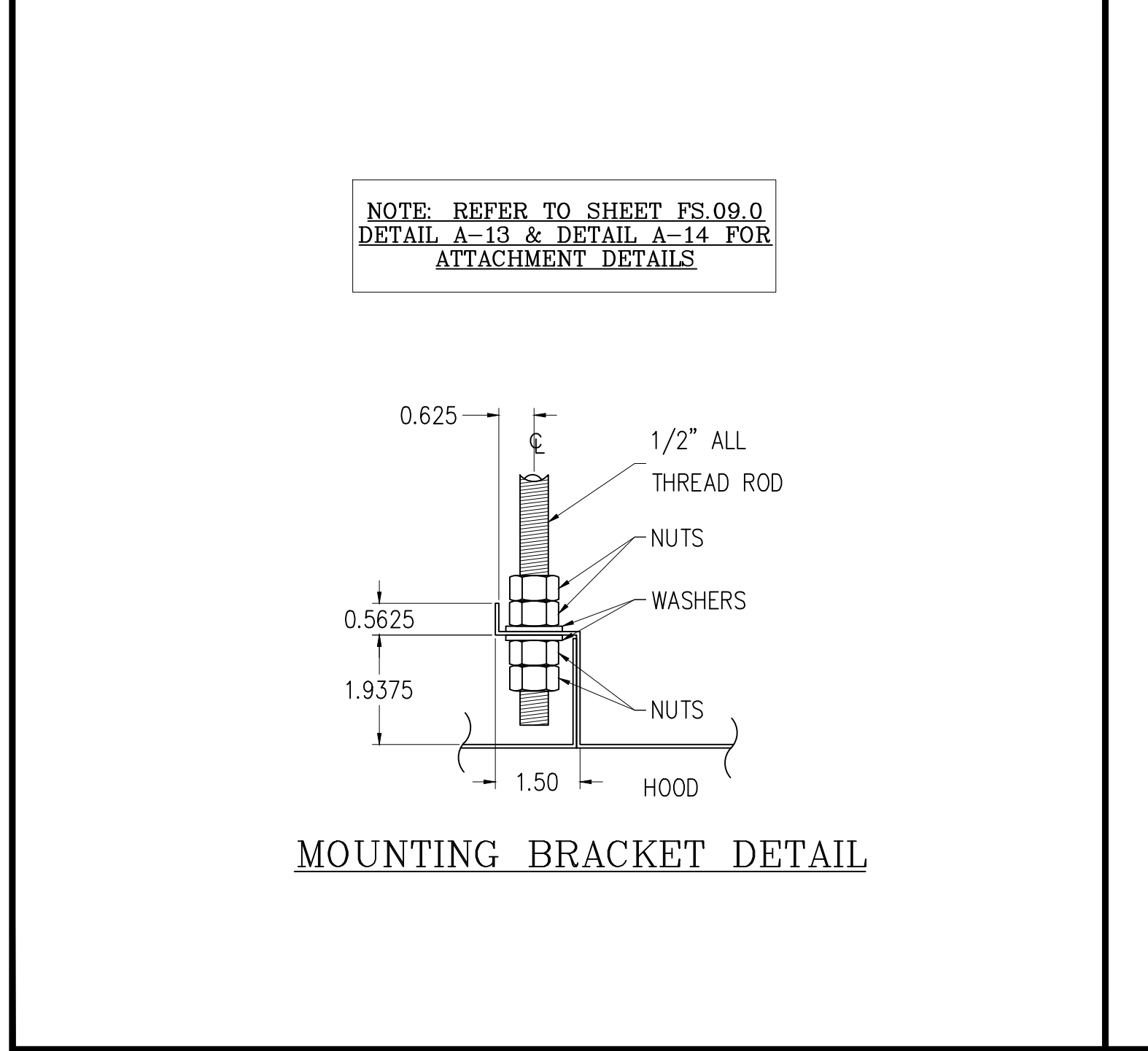
C FIRE SUPPRESSION SYSTEM OF HOOD #5 (Items #112, 113 & 114) - (Isometric View) N.T.S.



D ELEV. VIEW OF HOOD #5 & ISLAND SUITE (Item #116) 1/2"=1'-0"

E ELEV. VIEW OF HOOD #5 & ISLAND SUITE (Item #116) 1/2"=1'-0"

F SECTION OF HOOD #5 & ISLAND SUITE (Item #116) 1/2"=1'-0"



HOOD EXHAUST INFORMATION CHART

ITEM #	DUCT COLLAR	CFM/LF	TOTAL CFM	STATIC PRESSURE	VELOCITY
109	12" X 25"	350	3060	0.66" W.G.	1469 FPM

HOOD SUPPLY INFORMATION CHART

ITEM #	DUCT COLLAR	TOTAL CFM	STATIC PRESSURE	VELOCITY
PBW-109A	10" X 16"	918	0.10" W.G.	826 FPM
PBW-109B	10" X 16"	918	0.10" W.G.	826 FPM

HOOD CARTRIDGES

ITEM #	QTY.	CARTRIDGE	CARTRIDGE SIZE	MAX RATING
109	12	XGS	11" X 15.5"	280 CFM/LF

HOOD INFORMATION

ITEM NO.	MODEL	SIZE		AIR FLOW REQUIREMENTS		WEIGHT (LBS)
		L (IN)	D (IN)	S.P. TEST CAP. (W.G.)	DUCT COLLAR	
109	ELX	105	66	30	0.33 EXHAUST	3060
PBW-109A	PBW	105	16	8	SUPPLY	1
PBW-109B	PBW	105	16	8	SUPPLY	1

TOTAL HOOD S.P. 0.66" W.G.
TOTAL EXHAUST: 3060 CFM
TOTAL SUPPLY: 1836 CFM

HOOD NUMBER	APPLIANCE WITH HIGHEST DUTY RATING	ASHRAE-154 DUTY RATING	CALC'D TOTAL APPL. (CFM)	LENGTH OF HOOD IN FEET	CALC'D CFM/FT	TABLE 143.9-A MAX ALLOWABLE CFM/FT	COMPLIES WITH SECTION 443.9(A) TITLE 24 (YES/NO)
109	RANGE	MEDIAN	3060	8.75	350	350	YES

VENTILATOR NOTES (NON-WATER WASH)

A) VERIFY ALL MAKES AND MODELS OF COOKING EQUIPMENT AND LOCATION IN RELATION TO VENTILATOR PRIOR TO FABRICATION.

B) FRONT AND REAR MOUNTING BRACKETS HAVE #0.625" HOLES. BRACKETS TO BE SUPPORTED WITHIN 12" OF EACH END OF EACH SECTION, WITH A MAXIMUM SPAN OF 72" BETWEEN SUPPORTS.

C) INTERIOR MOUNTING BRACKET(S) TO BE SUPPORTED WITHIN 36" OF EACH END OF EACH SECTION, WITH A MAXIMUM SPAN OF 72" BETWEEN SUPPORTS.

VERIFY EXHAUST & SUPPLY FANS

A) VERIFY IF THIS HOOD IS EXHAUSTED ON ITS OWN EXHAUST FAN OR IS IT EXHAUSTED ON A COMMON EXHAUST FAN SHARED WITH OTHER HOODS.

B) VERIFY NUMBER OF SUPPLY (MAKE-UP AIR) FANS.

PBW PLENUM FEATURES

- * REMOVABLE S/S PERFORATED PANEL(S)
- * ALL EXPOSED SURFACES ARE STAINLESS STEEL

LIGHTING NOTE

THESE LED FIXTURES ARE PROVIDED WITH LED SMD CHIPS INTEGRATED INTO THE FIXTURE ASSEMBLY. THEREFORE NO SEPARATE BULBS ARE REQUIRED.

ELECTRICAL NOTES (DCV-AV)

① (1) CAT 5 CABLE, FOR CONTROL(S), IN FLEXIBLE CONDUIT, EXTENDING 6" BEYOND END OF VENTILATOR BY GAYLORD. WIRED TO DCV CONTROL CABINET OR NEXT HOOD (IF APPLICABLE) BY ELECTRICAL CONTRACTOR.

* LIGHT FIXTURES, VAPOR PROOF, U.L. LISTED, * FURNISHED, INSTALLED AND WIRED BY GAYLORD.

② (2) WIRES AND GROUND, FOR CONTROL(S) AND LIGHT(S), IN FLEXIBLE CONDUIT, EXTENDING 6" BEYOND END OF VENTILATOR BY GAYLORD. WIRED TO SUPPLY VOLTAGE BY ELECTRICAL CONTRACTOR.

WARNING: ANY CHANGES IN THE HOOD DESIGN OR MAKES/MODELS OF COOKING EQUIPMENT MAY AFFECT THE SIZE OF AND/OR REQUIRED AIRFLOWS FOR THE HOOD.

NOTE: COOKING EQUIPMENT MODEL MANUFACTURER & LOCATION MUST BE VERIFIED FOR FIRE SUPPRESSION PRIOR TO FABRICATION.

VENTILATOR NOTES (NON-WATER WASH)

FIRE SUPPRESSION SYSTEM NOTES
ANSUL R-102-ASEF

FP-1) LOCATION OF FIRE SUPPRESSION NOZZLES MUST BE VERIFIED IN RELATION TO THE COOKING EQUIPMENT, PRIOR TO VENTILATOR FABRICATION.

COMPLETE SYSTEM INCLUDING APPLIANCE DROPS AND SURFACE MOUNTED DETECTION BRACKETS, WITH FIELD INSTALLATION BY GAYLORD.

ANSUL FIRE SYSTEM (LISTED TO A U.L. 300) FACTORY PRE-PIPED CHEMICAL LINES INCLUDING DUCT, PLENUM AND APPLIANCE DROPS WITH ALL NOZZLES INSTALLED PER COOKING EQUIPMENT ARRANGEMENT ON GAYLORD APPROVED DRAWINGS. ALL EXPOSED CHEMICAL PIPING CHROME PLATED OR CHROME SLEEVED. INCLUDES FACTORY PRE-PIPED DETECTION LINES WITH SURFACE MOUNTED DETECTOR BRACKETS. INSTALLATION BY CERTIFIED FACTORY INSTALLERS.

INCLUDES:

- * TANK(S) AND RELEASE ASSEMBLY(S)
- * CHEMICAL
- * DETECTOR CABLE
- * FUSIBLE LINKS WITH LINKAGE(S)
- * EXPELLANT GAS CARTRIDGE(S) (PROVIDED BY FIRE SUPPRESSION INSTALLER)
- * (1) REMOTE MANUAL PULL STATION
- * (1) GAS VALVE PER FIRE SYSTEM WITH A MAXIMUM SIZE OF 2-1/2"
- * (1) MANUAL RESET RELAY PER FIRE SYSTEM, IF REQUIRED
- * PLANS AND PERMITS (ON JOBS INSIDE OF THE UNITED STATES AND NON-MARINE JOBS)
- * PARTS AND INSTALLATION OF CHEMICAL AND DETECTION LINES FROM TANK(S) TO CONNECTION POINTS ON HOOD
- * INSTALLATION OF TANKS AND RELATED COMPONENTS
- * INSTALLATION OF DETECTOR CABLE AND FUSIBLE LINKS
- * INSTALLATION OF REMOTE MANUAL PULL STATION
- * JOB SITE REPOSITIONING OF NOZZLES AS PER GAYLORD APPROVED DRAWINGS, IF REQUIRED TO MEET SYSTEM DESIGN REQUIREMENTS
- * TRIP TEST AND CERTIFICATION (ON JOBS INSIDE OF THE UNITED STATES AND NON-MARINE JOBS)

EXCLUDES:

- * UNION LABOR AND PREVAILING WAGE
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- * PLANS AND PERMITS ON JOBS OUTSIDE OF THE UNITED STATES AND ON MARINE JOBS
- * TRIP TEST AND CERTIFICATION ON JOBS OUTSIDE OF THE UNITED STATES AND ON MARINE JOBS
- * HAND HELD FIRE EXTINGUISHER(S)
- * INSPECTION AND SERVICING
- * RECESSED ANSUL CABINET(S)

APPROVALS

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Project Title
CALEXICO UNIFIED SCHOOL DISTRICT
CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION

Sheet Title
FOODSERVICE EQUIPMENT
HOOD DETAILS ITEM 109

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Sheet Number
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Intertek
E.T.L. LISTING #3192993CRT-002

GAYLORD DWG. #18-1014
HOOD #109 MODEL #ELX-GBD-BBC-CL-AV-66
TOTAL HOOD HANGING WEIGHT: 963 LBS
PLENUM BOX #PBW-109 MODEL #PBW-10
TOTAL PLENUM BOX WEIGHT: 264 LBS

G HOOD MOUNTING DETAILS N.T.S.

H HOOD EXHAUST INFORMATION CHART N.T.S.

J TYPE 1 EXHAUST HOOD NOTES N.T.S.

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Project Title
CALEXICO UNIFIED SCHOOL DISTRICT
CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION

Sheet Title
FOODSERVICE EQUIPMENT
HOOD DETAILS ITEM 109

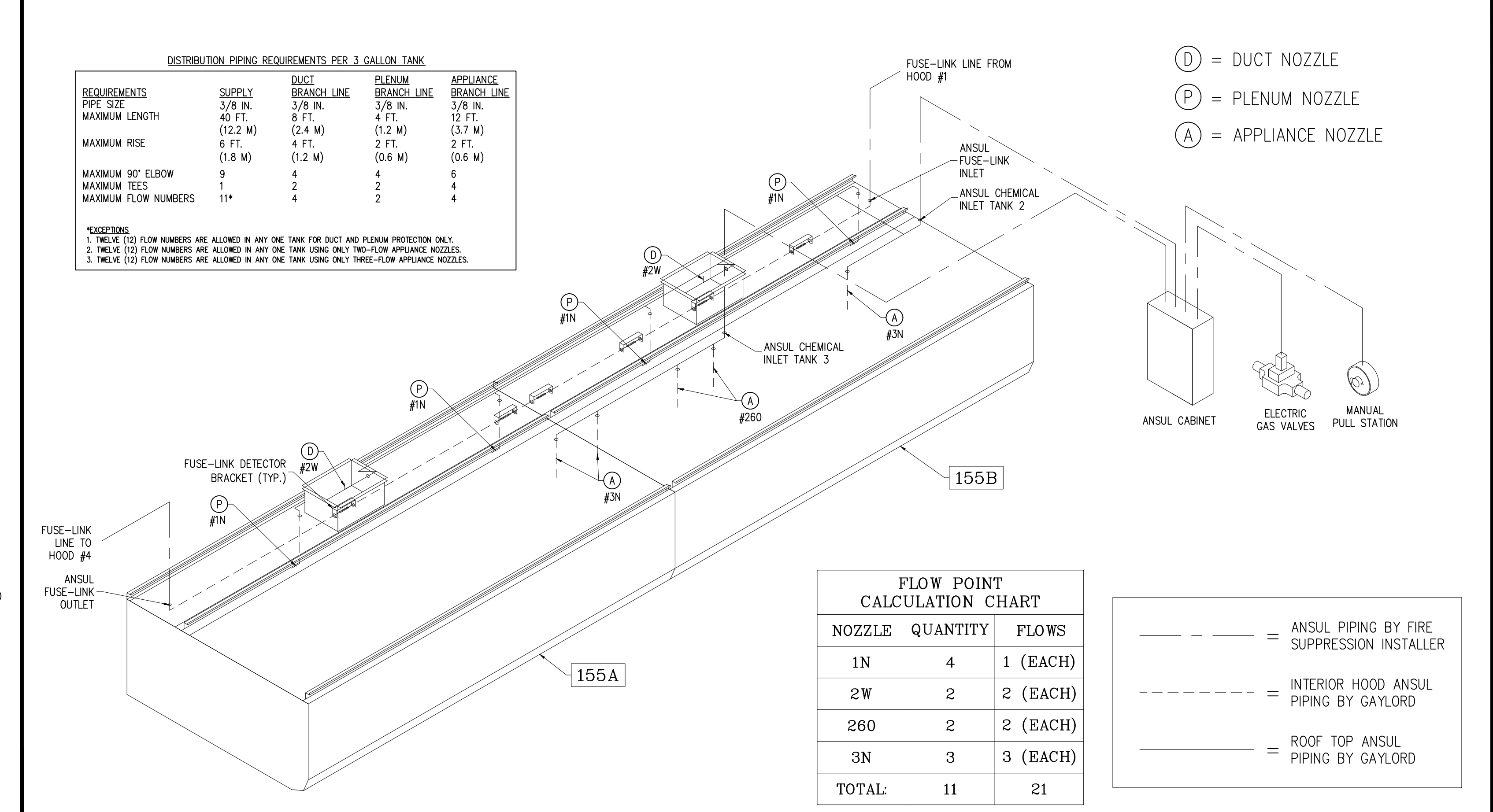
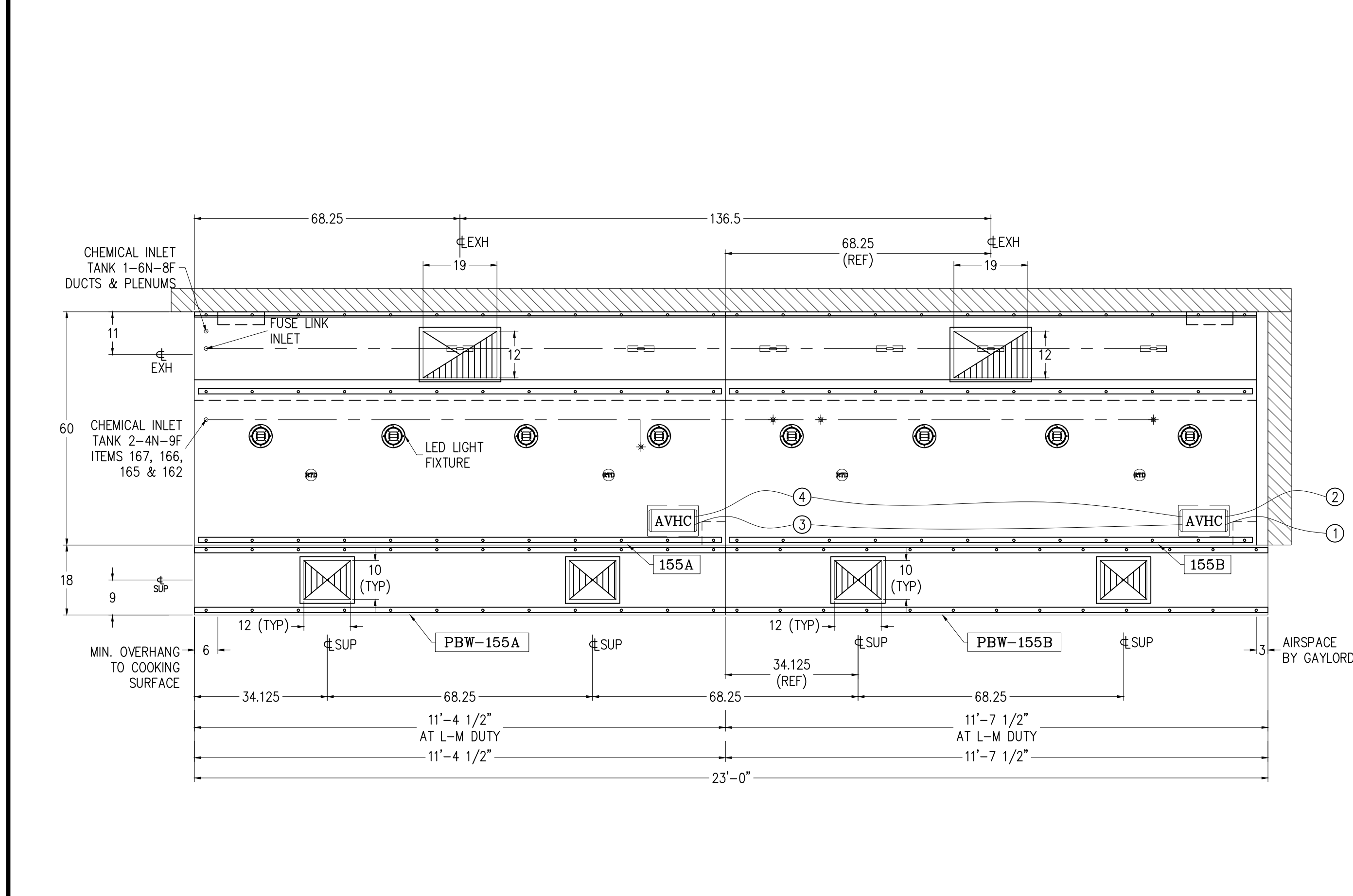
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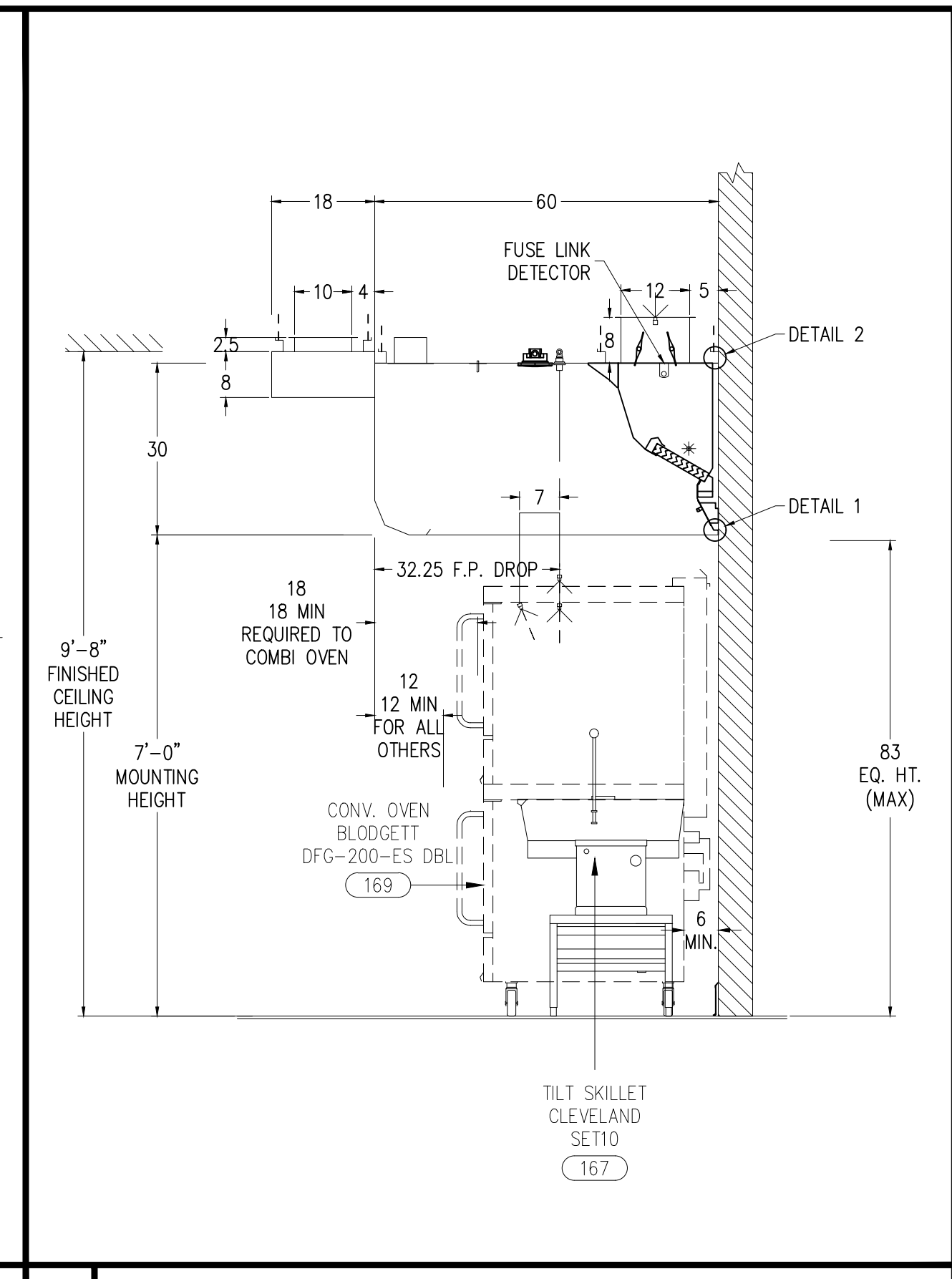
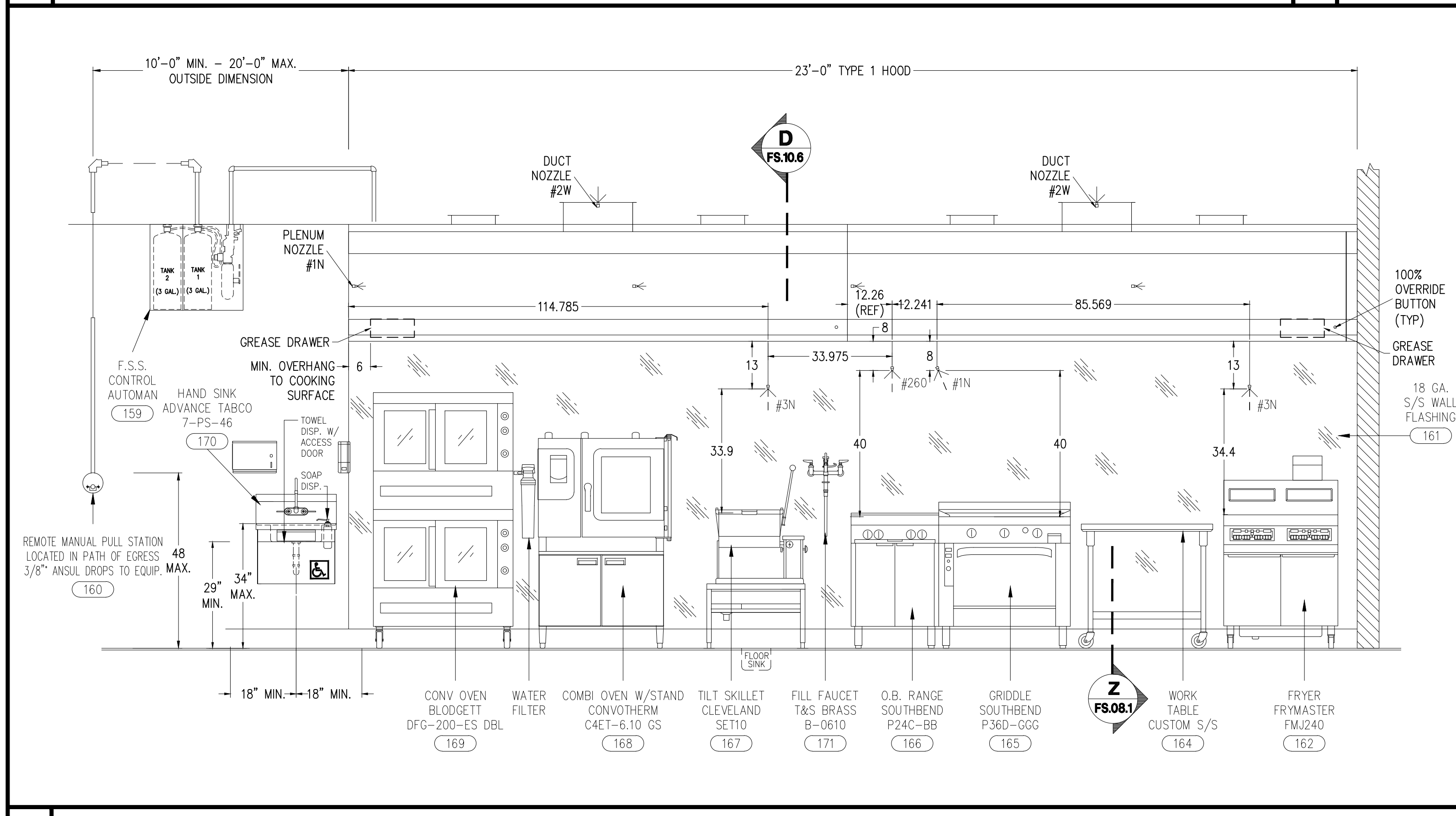
Sheet Number
FS.10.5

LICENSED ARCHITECT
RICHARD DIELI
STATE OF CALIFORNIA



A PLAN VIEW OF EXHAUST HOOD #6 (Item #155) - MODEL #ELX-GBD-A-AV-60 1/2"=1'-0"

B FIRE SUPPRESSION SYSTEM OF HOOD #6 (Items #158, 159 & 160) - (Isometric View) N.T.S.



VENTILATOR NOTES (NON-WATER WASH)

- VERIFY ALL MAKES AND MODELS OF COOKING EQUIPMENT AND LOCATION IN RELATION TO VENTILATOR PRIOR TO FABRICATION.
- FRONT AND REAR MOUNTING BRACKETS HAVE #0.625" HOLES. BRACKETS TO BE SUPPORTED WITHIN 12" OF EACH END OF EACH SECTION, WITH A MAXIMUM SPAN OF 72" BETWEEN SUPPORTS.
- INTERIOR MOUNTING BRACKET(S) TO BE SUPPORTED WITHIN 36" OF EACH END OF EACH SECTION, WITH A MAXIMUM SPAN OF 72" BETWEEN SUPPORTS.

VERIFY EXHAUST & SUPPLY FANS

- VERIFY IF THIS HOOD IS EXHAUSTED ON ITS OWN EXHAUST FAN OR IS IT EXHAUSTED ON A COMMON EXHAUST FAN SHARED WITH OTHER HOODS.
- VERIFY NUMBER OF SUPPLY (MAKE-UP AIR) FANS.

PBW PLENUM FEATURES

- * REMOVABLE S/S PERFORATED PANEL(S)
- * ALL EXPOSED SURFACES ARE STAINLESS STEEL

LIGHTING NOTE

THIS LIGHTING IN THIS VENTILATOR IS DESIGNED TO PROVIDE 50 FOOT CANDLES OF LIGHT AT THE COOKING SURFACE, IF 50 FOOT CANDLES OF LIGHTING IS PROVIDED IN THE SURROUNDING SPACE.

THESE LED FIXTURES ARE PROVIDED WITH LED SMD CHIPS INTEGRATED INTO THE FIXTURE HOUSING. THEREFORE, NO SEPARATE BULBS ARE REQUIRED.

ELECTRICAL NOTES (DCV-AV)

- (1) CAT 5 CABLE, FOR CONTROL(S), IN FLEXIBLE CONDUIT, EXTENDING 6" BEYOND END OF VENTILATOR BY GAYLORD. WIRE TO DCV CONTROL CABINET OR NEXT HOOD (IF APPLICABLE) BY ELECTRICAL CONTRACTOR.
- (2) WRES AND GROUND, FOR CONTROL(S) AND LIGHT(S), IN FLEXIBLE CONDUIT, EXTENDING 6" BEYOND END OF VENTILATOR BY GAYLORD. WIRE TO SUPPLY VOLTAGE BY ELECTRICAL CONTRACTOR.
- (3) (1) CAT 5 CABLE, FOR CONTROL(S), IN FLEXIBLE CONDUIT FOR INTERCONNECTING SECTIONS. DISCONNECTED FOR SHIPPING. JOB SITE RECONNECTION BY ELECTRICAL CONTRACTOR.
- (2) WRES AND GROUND, FOR CONTROL(S) AND LIGHT(S), IN FLEXIBLE CONDUIT FOR INTERCONNECTING VENTILATOR SECTIONS BY GAYLORD. DISCONNECTED FOR SHIPPING. JOB SITE RECONNECTION BY ELECTRICAL CONTRACTOR.

NOTE: REFER TO SHEET FS.05.9 FOR ADDITIONAL INFORMATION FOR THE DCV CONTROL CABINET & WIRING DETAILS

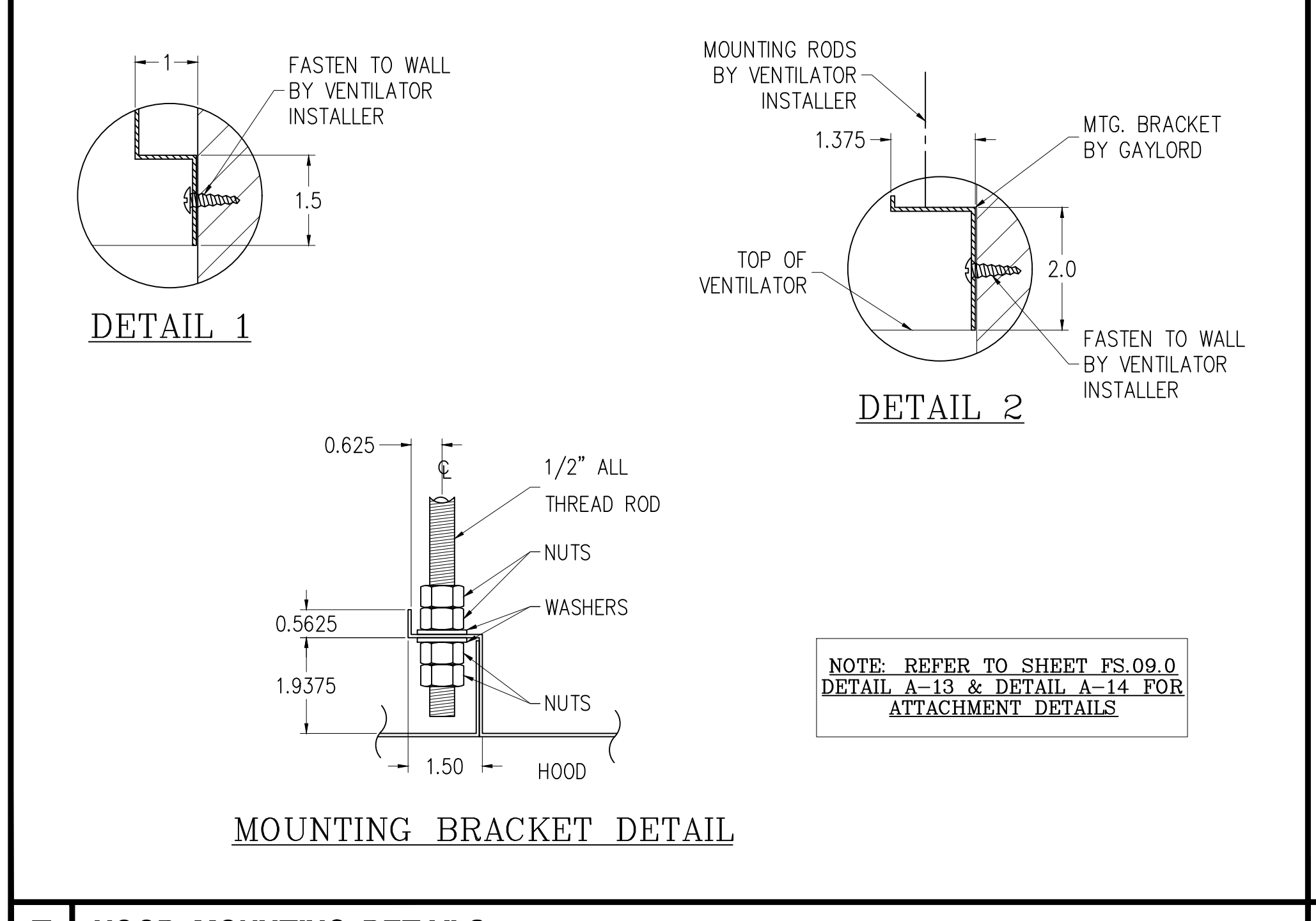
WARNING: ANY CHANGES IN THE HOOD DESIGN OR MAKES/MODELS OF COOKING EQUIPMENT MAY AFFECT THE SIZE OF AND/OR REQUIRED AIRFLOWS FOR THE HOOD. NOTE: COOKING EQUIPMENT MODEL, MANUFACTURER & LOCATION MUST BE VERIFIED FOR FIRE SUPPRESSION PRIOR TO FABRICATION.

INTERTAK
 E.T.L. LISTING #3192993CRT-002

GAYLORD DWG. #18-1014
 HOOD #155 MODEL #ELX-GBD-A-AV-60
 TOTAL HOOD HANGING WEIGHT: 1840 LBS
 PLENUM BOX #PBW-155 MODEL #PBW-18
 TOTAL PLENUM BOX WEIGHT: 348 LBS

C ELEVATION OF EXHAUST HOOD #6 (Item #155) & FIRE SUPPRESSION SYSTEM (Items #158, 159 & 160) 1/2"=1'-0"

D SECTION OF EXHAUST HOOD #6 1/2"=1'-0"



HOOD EXHAUST INFORMATION CHART

ITEM #	DUCT COLLAR	CFM/LF	TOTAL CFM	STATIC PRESSURE	VELOCITY
155A	12" X 19"	204	2323	0.75" W.G.	1467 FPM
155B	12" X 19"	200	2323	0.75" W.G.	1467 FPM

HOOD SUPPLY INFORMATION CHART

ITEM #	DUCT COLLAR	TOTAL CFM	STATIC PRESSURE	VELOCITY
155A	(2) 10" X 12"	1394	0.10" W.G.	836 FPM
155B	(2) 10" X 12"	1394	0.10" W.G.	836 FPM

HOOD CARTRIDGES

ITEM #	QTY.	CARTRIDGE	CARTRIDGE SIZE	MAX RATING
155A	8	XGS	11" X 15.5"	280 CFM/LF
155B	8	XGS	11" X 15.5"	280 CFM/LF

HOOD INFORMATION

ITEM NO.	MODEL	SIZE	AIR FLOW REQUIREMENTS				WEIGHT (LBS)					
			SP. TEST PORT (FAC)	DUCT TYPE	QTY	MAX ALLOWABLE (CFM/LF)						
155A	ELX	136.5	60	30	0.36	EXHAUST	1	0.75	2323	19	12	920
155B	ELX	136.5	60	30	0.36	EXHAUST	1	0.75	2323	19	12	920
PBW-155A	PBW	136.5	18	8		SUPPLY	2	0.10	697	12	10	171
PBW-155B	PBW	136.5	18	8		SUPPLY	2	0.10	697	12	10	171

TOTAL HOOD S.P.: 0.75" W.G.
 TOTAL EXHAUST: 4644 CFM
 TOTAL SUPPLY: 2788 CFM

TOTAL WEIGHT: 2185 LBS

E HOOD MOUNTING DETAILS N.T.S.

F HOOD EXHAUST INFORMATION CHART N.T.S.

G TYPE 1 EXHAUST HOOD NOTES N.T.S.

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PROJECT TITLE
 CALEXICO UNIFIED SCHOOL DISTRICT
 CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION

SHEET TITLE
 FOODSERVICE EQUIPMENT
 HOOD DETAILS ITEM 155

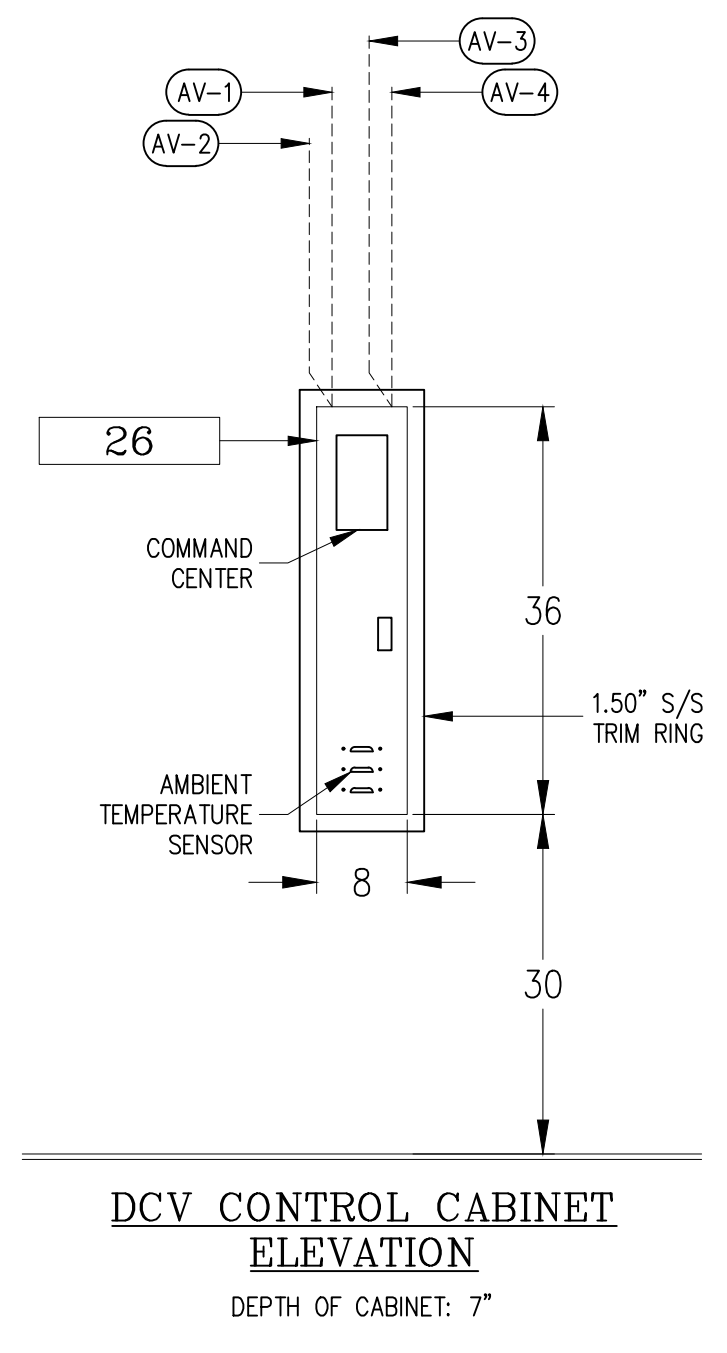
Document Date
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Date Last Revised
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Project Number
 18-25CX

Sheet Number
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DCV CONTROL CABINET WIRING NOTES

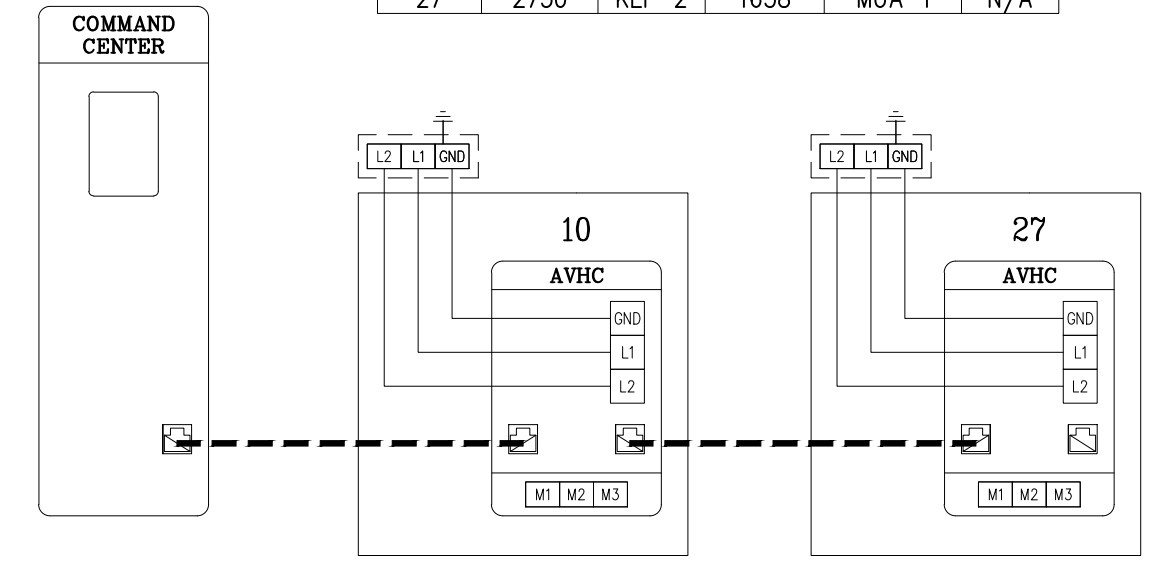
- AV-1 (2) WIRES AND GROUND FROM DCV CONTROL CABINET TO NON-INTERRUPTIBLE SUPPLY VOLTAGE SERVICE BY ELECTRICAL CONTRACTOR.
- AV-2 (1) CAT 5 CABLE FROM DCV CONTROL CABINET TO 1ST HOOD AVHC BY ELECTRICAL CONTRACTOR.
- AV-3 (2) WIRES FROM DCV CONTROL CABINET TO FIRE SUPPRESSION SYSTEM MICRO SWITCHES BY ELECTRICAL CONTRACTOR.
- AV-4 (6) WIRE LOW VOLTAGE CABLE FROM DCV CONTROL CABINET TO EACH VFD BY ELECTRICAL CONTRACTOR.

DCV CONTROL CABINET INSTALLATION NOTES

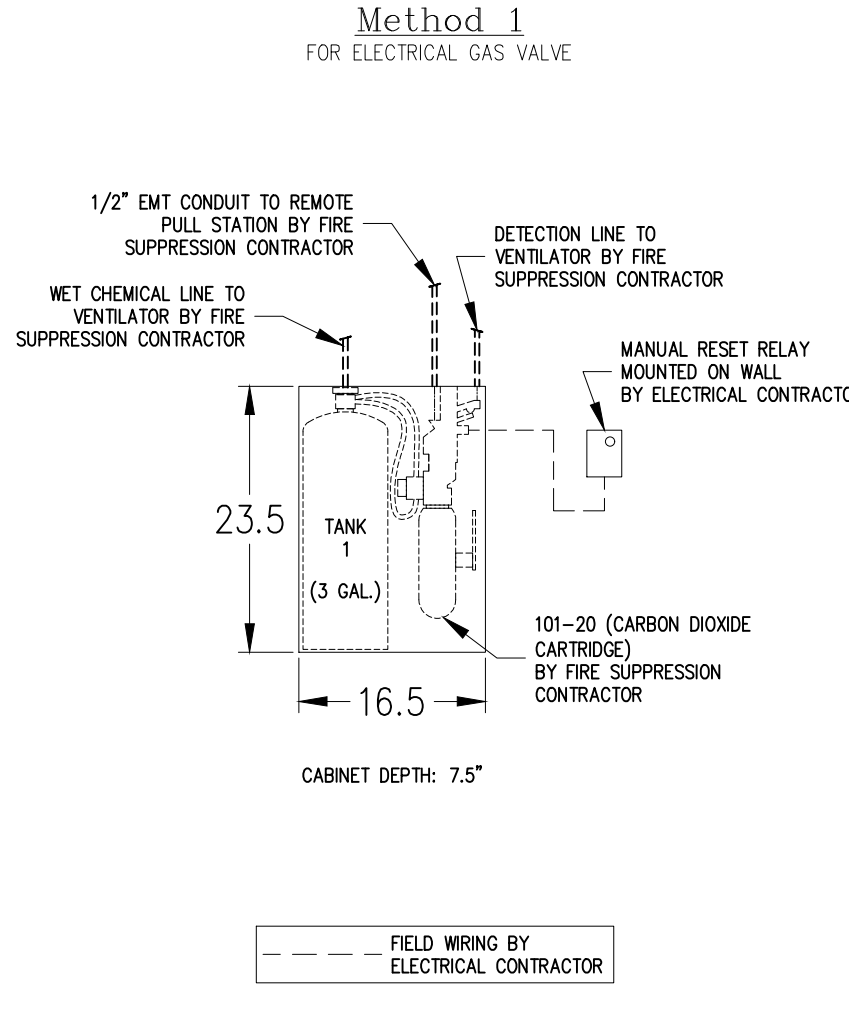
DCV CONTROL CABINET MUST BE LOCATED WITHIN 50 FEET OF AND IN THE SAME KITCHEN AS THE HOODS IT WILL CONTROL.

DCV CONTROL CABINET MUST BE LOCATED AT LEAST 2 FEET HORIZONTALLY FROM COOKING EQUIPMENT AND HEAT GENERATING APPLIANCES.

HOOD SECTION	EXHAUST CFM	EXHAUST FAN	SUPPLY CFM	MAKEUP AIR FAN	VAV
10	560	KEF-1	336	MUA-1	N/A
27	2730	KEF-2	1638	MUA-1	N/A



TYPICAL ANSUL TANK SCHEMATIC, ITEMS 14 & 31 (FOR NON-WATER WASH VENTILATORS)



A DCV CONTROL CABINET WIRING NOTES & INSTALLATION NOTES (Item #26)

N.T.S.

DCV CONTROL CABINET

--- SUPPLY VOLTAGE ---
120 VAC, 60Hz;
1 AMP MAXIMUM - CONNECTED LOAD

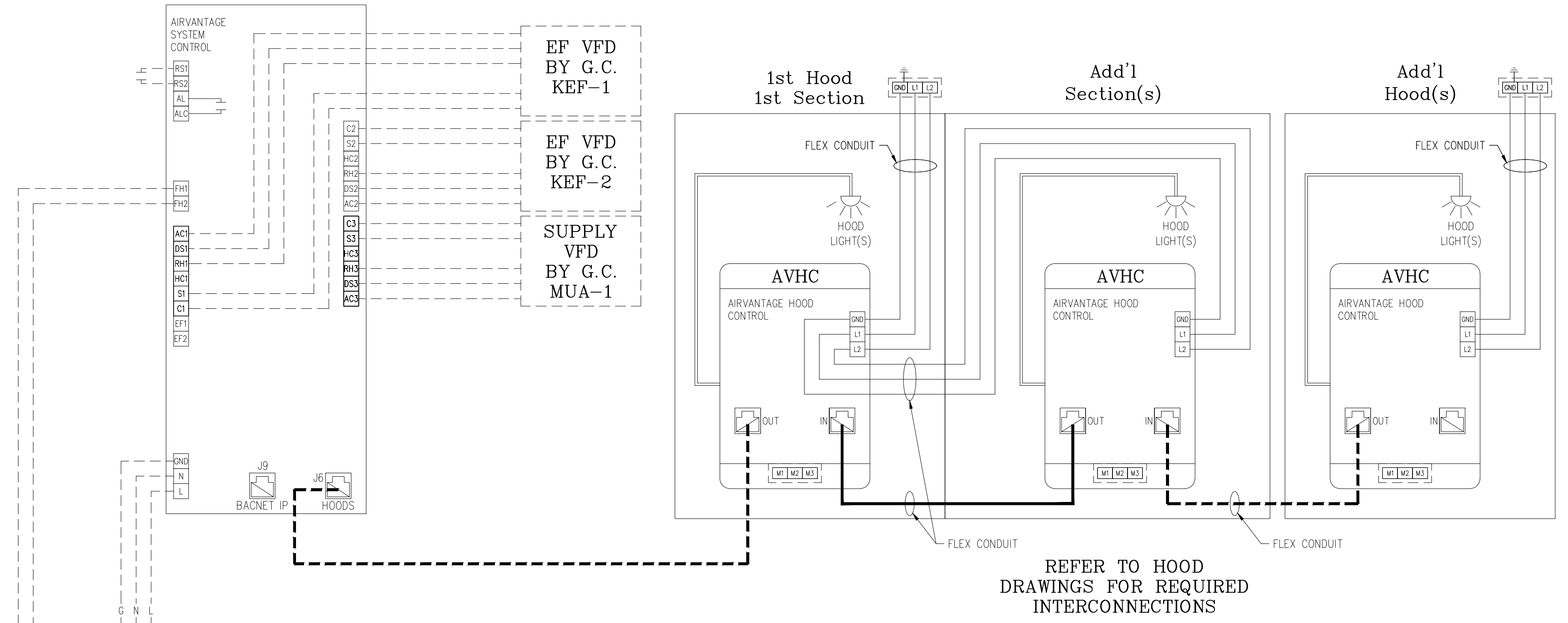
TRM	TERMINATION SCHEDULE	TYPE
L1	MAIN POWER CONNECTION HOT	120 VAC
N	MAIN POWER CONNECTION NEUTRAL	0 VAC
FH1	FIRE SYSTEM INPUT HOT	120 VAC
FH2	FIRE SYSTEM NEUTRAL	0 VAC
RS1	REMOTE START +24V	24 VDC
RS2	REMOTE START COMMON	24 VDC
AL	ALARM CONTACT NO	VARIES
ALC	ALARM CONTACT COMMON	VARIES
J9	BACNET IP	CATS
J6	HOOD COMMUNICATION	CATS
EF1	COMMON FROM EXTERNAL CONTROLLER	24 VDC
EF2	EF RUN STATUS (NO)	24 VDC
C1	BINARY COMMON INPUT	VARIES
S1	BINARY OUTPUT (RUN)	24 VDC
DH1	OPTIONAL COMMON FOR RH1	24 VDC
RH1	RUN HIGH (USES C1 COMMON)	VARIES
DS1	OUTPUT 2-10V (4-20mA FOR VFD ONLY)	VARIES
AC1	ANALOG COMMON	VARIES
C2	BINARY COMMON (INPUT)	24 VDC
S2	BINARY OUTPUT (RUN)	24 VDC
HC2	OPTIONAL COMMON FOR RH2	24 VDC
RH2	RUN HIGH (USES C2 COMMON)	24 VDC
DS2	OUTPUT 2-10V (4-20mA FOR VFD ONLY)	VARIES
AC2	ANALOG COMMON	VDC
C3	BINARY COMMON (INPUT)	24 VDC
S3	BINARY OUTPUT (RUN)	24 VDC
HC3	OPTIONAL COMMON FOR RH3	24 VDC
RH3	RUN HIGH (USES C3 COMMON)	24 VDC
DS3	OUTPUT 2-10V (4-20mA FOR VFD ONLY)	VARIES
AC3	ANALOG COMMON	VDC
C4	BINARY COMMON (INPUT)	24 VDC
S4	BINARY OUTPUT (RUN)	24 VDC
HC4	OPTIONAL COMMON FOR RH4	24 VDC
RH4	RUN HIGH (USES C4 COMMON)	24 VDC
DS4	OUTPUT 2-10V (4-20mA FOR VFD ONLY)	VARIES
AC4	ANALOG COMMON	VDC
PA1	OUTPUT 2-10V FOR ECM ONLY	VARIES
NA1	ANALOG COMMON FOR ECM ONLY	VDC
PA2	OUTPUT 2-10V FOR ECM ONLY	VARIES
NA2	ANALOG COMMON FOR ECM ONLY	VDC
PA3	OUTPUT 2-10V FOR ECM ONLY	VARIES
NA3	ANALOG COMMON FOR ECM ONLY	VDC
PA4	OUTPUT 2-10V FOR ECM ONLY	VARIES
NA4	ANALOG COMMON FOR ECM ONLY	VDC

AVHC

--- CONTROLLER TERMINATION SCHEDULE ---
VOLTAGE TO VARY

TRM	TERMINATION SCHEDULE	TYPE
L1	MAIN POWER CONNECTION HOT	120 VAC
L2	MAIN POWER CONNECTION NEUTRAL	0 VAC
IN	COMM FROM UPS/STREAM CONTROLLER	24 VDC
OUT	COMM TO DOWNS/STREAM CONTROLLER	24 VDC
M1	AIR VOLUME NEUTRAL	24 VAC
M2	AIR VOLUME HOT	24 VAC
M3	AIR VOLUME SIGNAL 2-10V	VARIES

--- FIELD WIRING BY ELECTRICAL CONTRACTOR ---
--- WIRING BY GAYLORD ---
--- CAT 5 FIELD WIRING BY ELECTRICAL CONTRACTOR ---
--- CAT 5 WIRING BY GAYLORD ---



OUTPUT NUMBER	OUTPUT LABEL	OUTPUT TYPE	MIRROR (1, 2, 3, OR 4 SUPPLY (% OF EXHAUST))
1	KEF-1	EXHAUST	N/A
2	KEF-2	EXHAUST	N/A
3	MUA-1	SUPPLY	60%
4	N/A	DISABLED	N/A

VFD BY G.C. SPECIFICATION

- HARDWARE (MINIMUM VFD REQUIREMENTS)**
- WORKS WITH A 4-20 MA OR 2-10 V ANALOG INPUT.
 - PRODUCES A 24 VDC OR EQUIVALENT COMMON TO BE USED FOR REMOTE DRY CONTACT SWITCHING OF THE VFD(S). INDEPENDENT POWER SUPPLY ALSO ACCEPTED.
 - DRIVE TO MOTOR DISTANCE IS LESS THAN THE MAXIMUM SPECIFIED BY THE DRIVE MANUFACTURER.
 - DRIVE IS TO BE SIZED APPROPRIATELY FOR MOTOR RATED FLA, AND VOLTAGE INPUTS.

DRIVE INPUTS FROM GAYLORD DCV COMMAND CENTER

AS NOTED ON GAYLORD SUBMITTAL DRAWINGS UP TO FOUR VFDs MAY BE CONTROLLED THROUGH TERMINALS LABELED WITH AN ALPHANUMERIC, WHERE THE NUMBER CORRESPONDS TO A DISTINCT VFD (SEE TABLE 1). THE SYMBOL "F" IS SUBSTITUTED FOR THE NUMBER IN THE FOLLOWING.

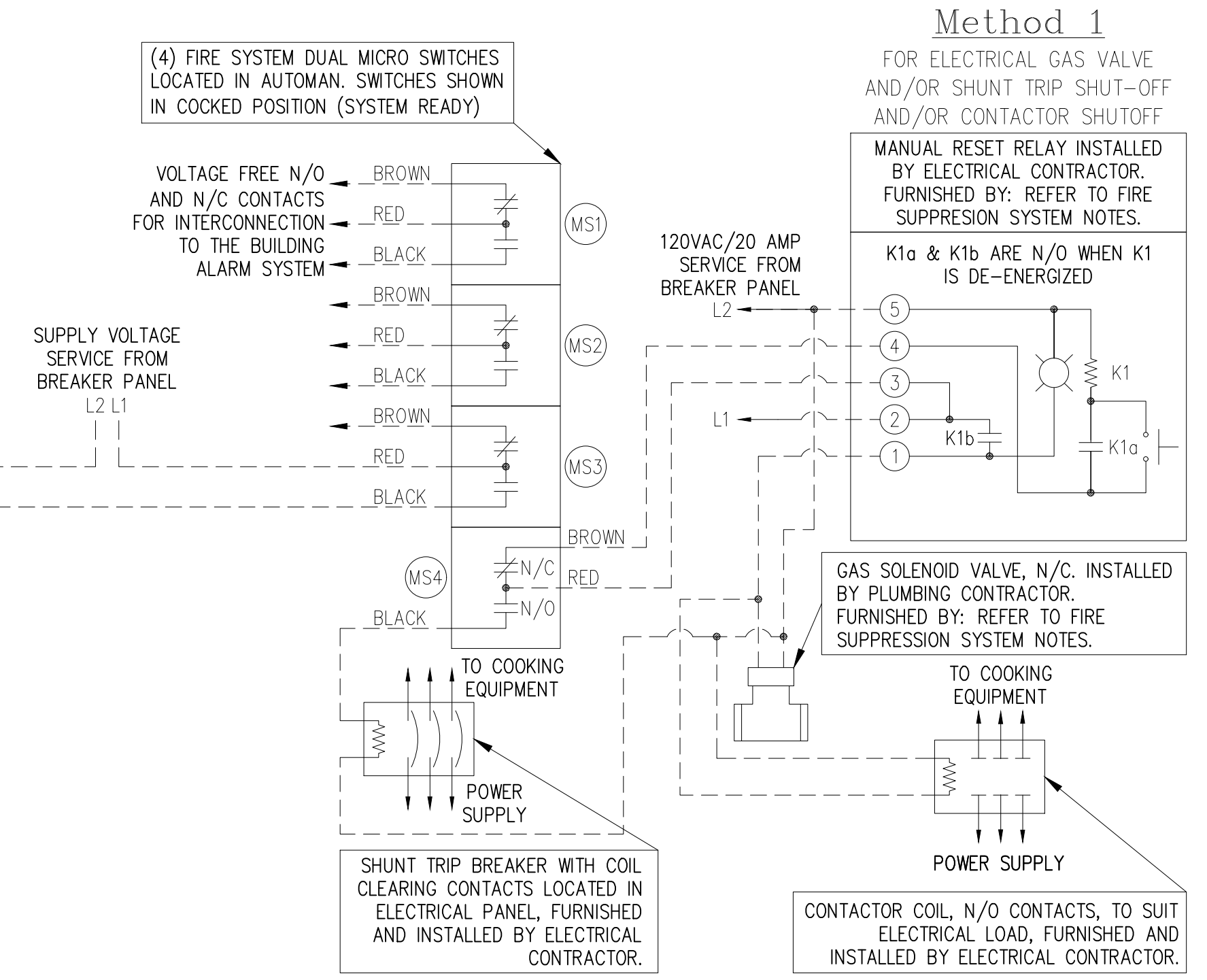
- TERMINAL C# ACCEPTS A NOMINAL +24 VDC COMMON SIGNAL FROM AN EXHAUST FAN VFD.
- TERMINAL S# OUTPUTS SIGNAL PROVIDED BY THE COMMON VOLTAGE (AT C#) TO COMMAND THE EXHAUST FAN VFD TO RUN.
- TERMINAL RH# OUTPUTS SIGNAL PROVIDED BY THE COMMON VOLTAGE.
 - a. C# IS THE DEFAULT COMMON FOR RH#.
 - b. HC# IS AN ALTERNATE COMMON FOR RH#. IT IS TO BE USED WHEN THE VFD COMMAND POINTS FOR RUN AND RUN HIGH DO NOT SHARE A COMMON. THE TERMINAL JUMPER BETWEEN C# AND HC# MUST BE REMOVED TO SEPARATE THE VOLTAGE SOURCES.
- TERMINALS DS# AND AC# PROVIDE THE SPEED SIGNAL TO THE EXHAUST FAN VFD.
 - a. DS# IS A 4-20 MA SIGNAL (OPTIONAL 2-10 V)
 - b. AC# IS THE ANALOG COMMON

PROGRAM SPECIFICATION

- VFDs TO OPERATE WITH ANALOG 4-20MA INPUT. 4 MA REPRESENTS 0 HZ AND 20 MA REPRESENTS THE MAXIMUM MOTOR SPEED, TYPICALLY 60 HZ (2-10V IS OPTIONAL).
- VFDs TO START (RECEIVE RUN COMMAND) BY EXTERNAL CONTACT CLOSURE PROVIDED BY GAYLORD ON C# AND S# CONTACT CLOSURE WILL TAKE THE UNLOADED SYSTEM TO MINIMUM FAN SPEED (DEFAULT 30 HZ).
- VFD CONSTANTS FOR THE MOTOR CONTROLLED TO BE DETERMINED AND ADDED, EX: THERMAL OVERLOAD, RATE VOLTAGE, ETC.
- SET ACCELERATION TIME TO 8 SECONDS OR 7.5 HZ/SECOND.
- SET DECELERATION TIME TO 48 SECONDS OR 1.25 HZ/SECOND. SLOW DECELERATION PREVENTS INSTABILITY IN THE SYSTEM.
- SETUP EACH VFD FOR A "RUN HIGH" COMMAND FROM RH# THAT WILL RAMP THE DRIVE TO 100% OR 60 HZ. THIS FUNCTION IS ESSENTIAL FOR PROPER RESPONSE TO A FIRE PROTECTION SYSTEM DISCHARGE.
 - a. SET THE VFD BIAS 4 MA = 0 HZ
 - b. SET THE VFD GAIN 20 MA = 60 HZ

B TYPICAL FIRE SYSTEM WIRING DIAGRAM (ANSUL SHOWN) & DCV CONTROL CABINET (Item #26)

N.T.S.



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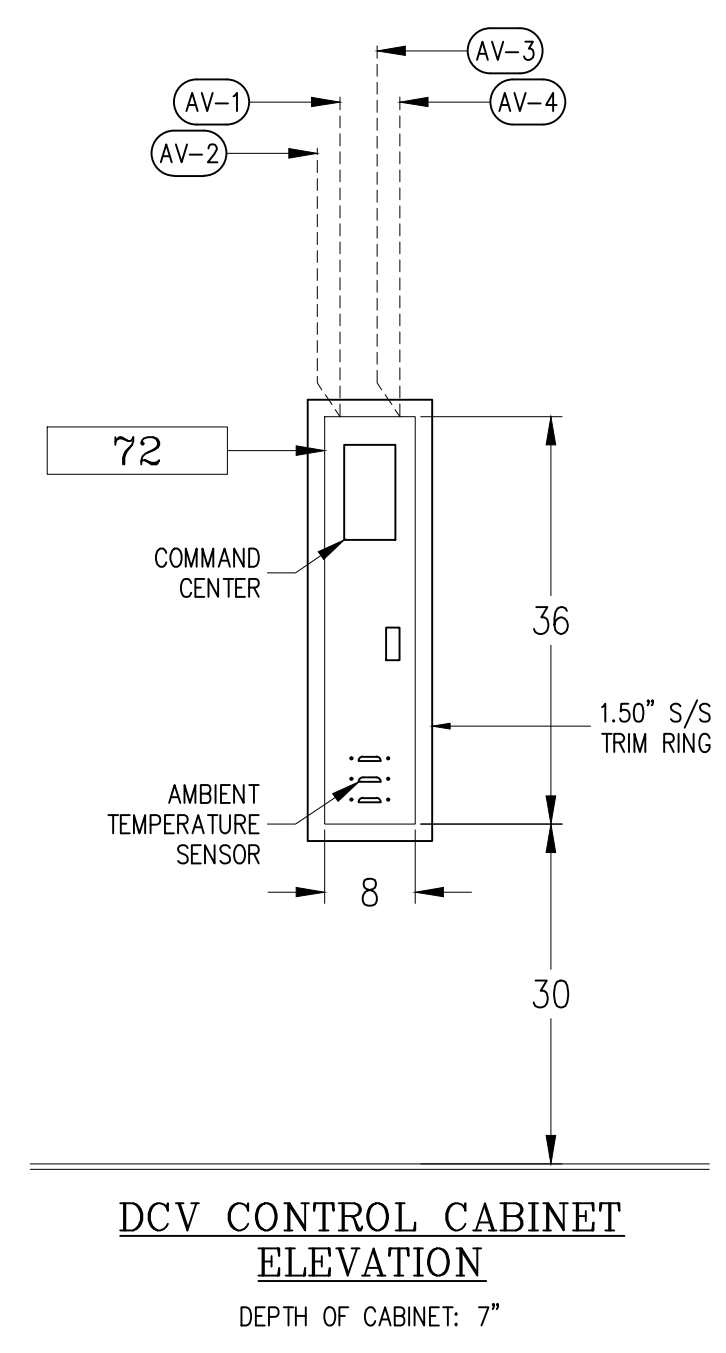
APPROVALS

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Project Title
**CALEXICO UNIFIED SCHOOL DISTRICT
CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
**FOODSERVICE EQUIPMENT
DCV DETAILS ITEM 26**

Document Date 09-12-18	Project Number 18-25CX
Date Last Revised -	Sheet Number FS.10.7



DCV CONTROL CABINET WIRING NOTES

(AV-1) (2) WIRES AND GROUND FROM DCV CONTROL CABINET TO NON-INTERRUPTIBLE SUPPLY VOLTAGE SERVICE BY ELECTRICAL CONTRACTOR.

(AV-2) (1) CAT 5 CABLE FROM DCV CONTROL CABINET TO 1ST HOOD AVHC BY ELECTRICAL CONTRACTOR.

(AV-3) (2) WIRES FROM DCV CONTROL CABINET TO FIRE SUPPRESSION SYSTEM MICRO SWITCHES BY ELECTRICAL CONTRACTOR.

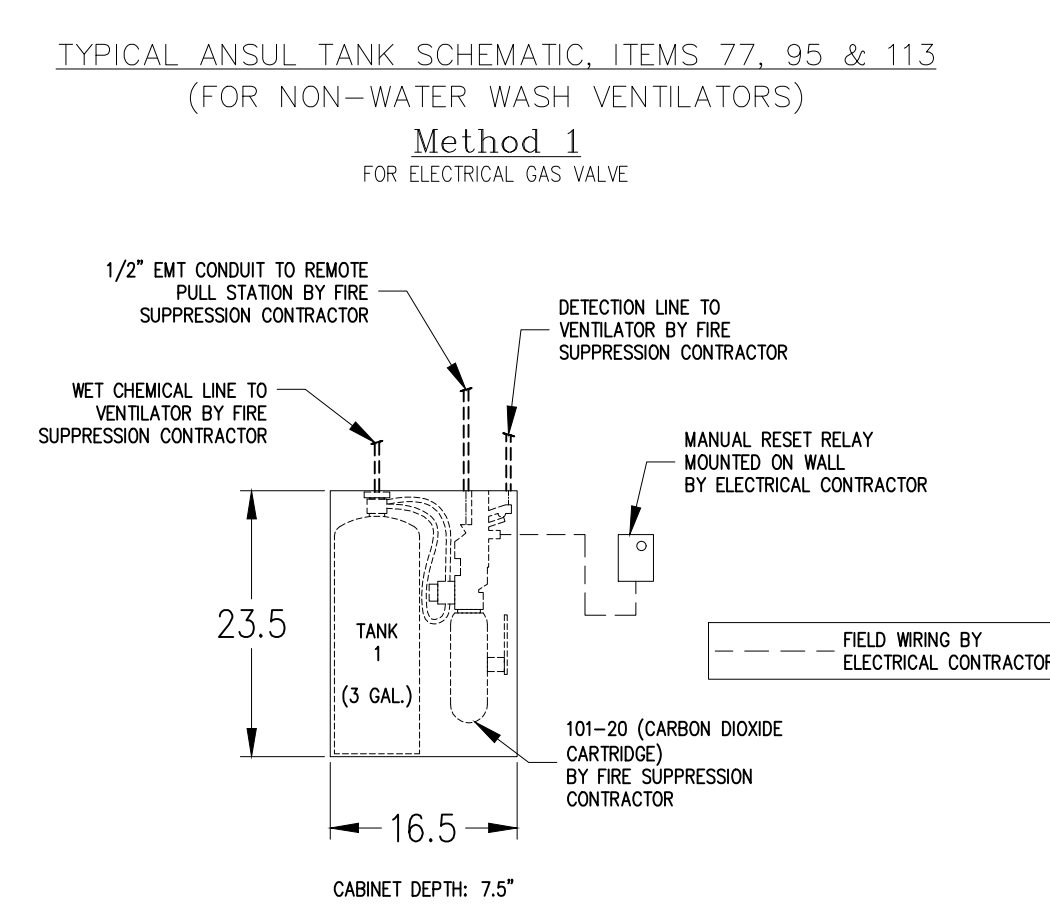
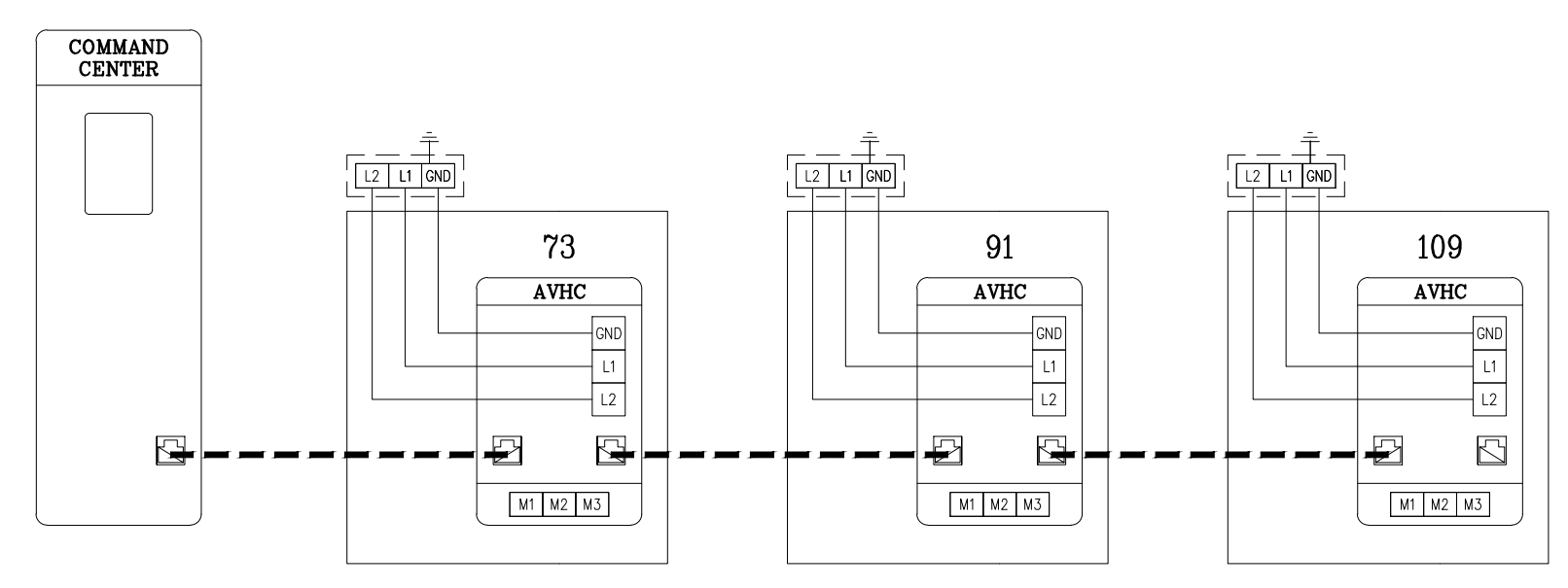
(AV-4) (6) WIRE LOW VOLTAGE CABLE FROM DCV CONTROL CABINET TO EACH VFD BY ELECTRICAL CONTRACTOR.

DCV CONTROL CABINET INSTALLATION NOTES

DCV CONTROL CABINET MUST BE LOCATED WITHIN 50 FEET OF AND IN THE SAME KITCHEN AS THE HOODS IT WILL CONTROL.

DCV CONTROL CABINET MUST BE LOCATED AT LEAST 2 FEET HORIZONTALLY FROM COOKING EQUIPMENT AND HEAT GENERATING APPLIANCES.

HOOD SECTION	EXHAUST CFM	EXHAUST FAN	SUPPLY CFM	MAKEUP AIR FAN	VAV
73	3060	KEF-3	1836	MUA-2	N/A
91	3060	KEF-4	1836	MUA-2	N/A
109	3060	KEF-5	1836	MUA-2	N/A



A DCV CONTROL CABINET WIRING NOTES & INSTALLATION NOTES (Item #72)

N.T.S.

DCV CONTROL CABINET

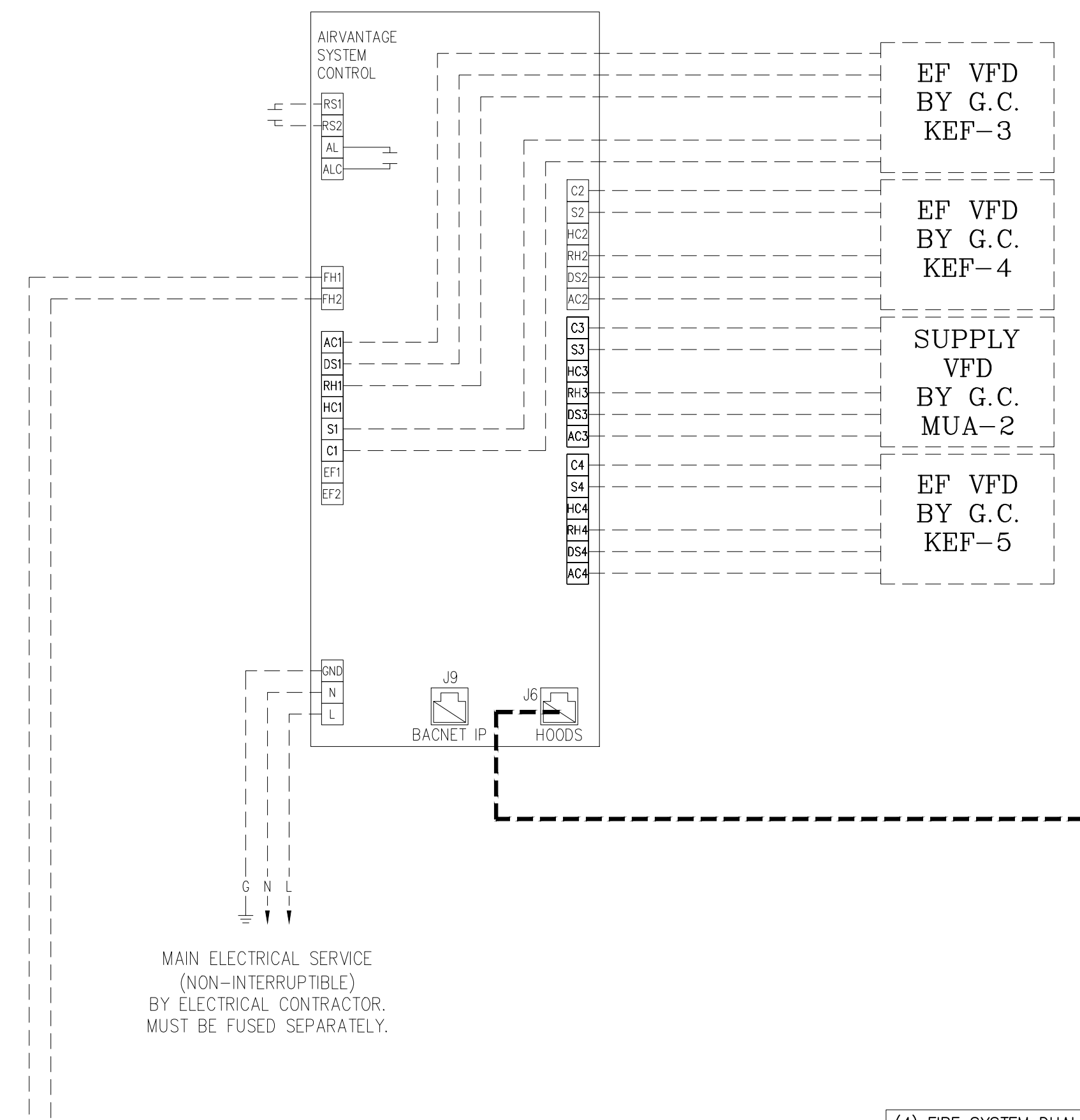
--- SUPPLY VOLTAGE ---
120 VAC, 60Hz
1 AMP MAXIMUM - CONNECTED LOAD

TRM	TERMINATION SCHEDULE	TYPE
L	MAIN POWER CONNECTION HOT	120 VAC
N	MAIN POWER CONNECTION NEUTRAL	0 VAC
FH1	FIRE SYSTEM INPUT HOT	120 VAC
FH2	FIRE SYSTEM NEUTRAL	0 VAC
RS1	REMOTE START +24V	24 VDC
RS2	REMOTE START COMMON	24 VDC
AL	ALARM CONTACT NO.	VARIES
ALC	ALARM CONTACT COMMON	VARIES
J9	BACKNET IP	CATS
J6	HOOD COMMUNICATION	CATS
EF1	COMMON FROM EXTERNAL CONTROLLER	24 VDC
EF2	EF RUN STATUS (NO)	24 VDC
C1	BINARY COMMON INPUT	VARIES
S1	BINARY OUTPUT (RUN)	VARIES
HC1	OPTIONAL COMMON FOR RH1	24 VDC
RH1	RUN HIGH (USES C1 COMMON)	VARIES
DS1	OUTPUT 2-10V (4-20mA FOR VFD ONLY)	VARIES
AC1	ANALOG COMMON	VARIES
C2	BINARY COMMON (INPUT)	24 VDC
S2	BINARY OUTPUT (RUN)	24 VDC
HC2	OPTIONAL COMMON FOR RH2	24 VDC
RH2	RUN HIGH (USES C2 COMMON)	24 VDC
DS2	OUTPUT 2-10V (4-20mA FOR VFD ONLY)	VARIES
AC2	ANALOG COMMON	VDC
C3	BINARY COMMON (INPUT)	24 VDC
S3	BINARY OUTPUT (RUN)	24 VDC
HC3	OPTIONAL COMMON FOR RH3	24 VDC
RH3	RUN HIGH (USES C3 COMMON)	24 VDC
DS3	OUTPUT 2-10V (4-20mA FOR VFD ONLY)	VARIES
AC3	ANALOG COMMON	VDC
C4	BINARY COMMON (RUN)	24 VDC
S4	BINARY OUTPUT (RUN)	24 VDC
HC4	OPTIONAL COMMON FOR RH4	24 VDC
RH4	RUN HIGH (USES C4 COMMON)	24 VDC
DS4	OUTPUT 2-10V (4-20mA FOR VFD ONLY)	VARIES
AC4	ANALOG COMMON	VDC
PA1	OUTPUT 2-10V FOR ECM ONLY	VARIES
NA1	ANALOG COMMON FOR ECM ONLY	VDC
PA2	OUTPUT 2-10V FOR ECM ONLY	VARIES
NA2	ANALOG COMMON FOR ECM ONLY	VDC
PA3	OUTPUT 2-10V FOR ECM ONLY	VARIES
NA3	ANALOG COMMON FOR ECM ONLY	VDC
PA4	OUTPUT 2-10V FOR ECM ONLY	VARIES
NA4	ANALOG COMMON FOR ECM ONLY	VDC

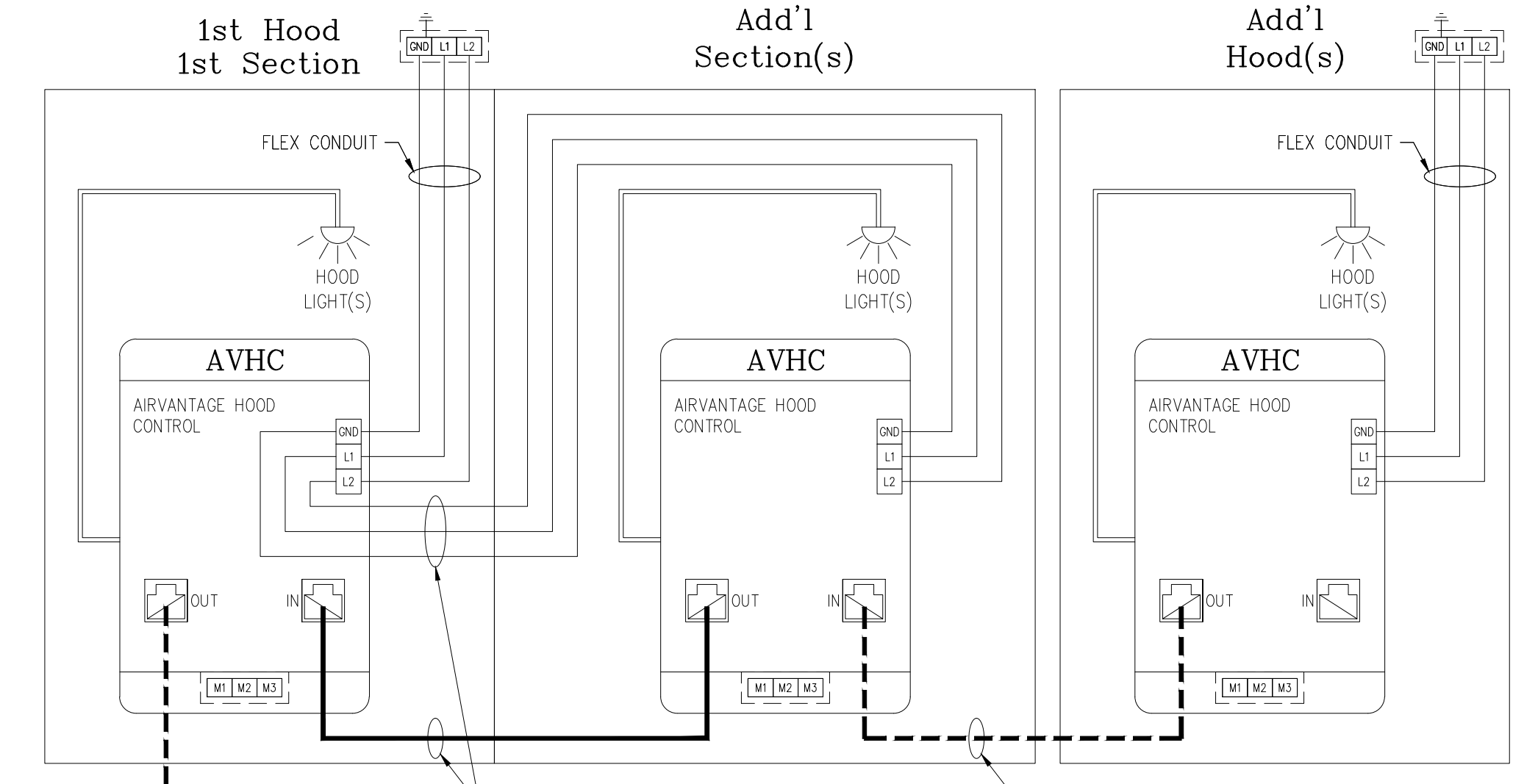
AVHC

--- CONTROLLER TERMINATION SCHEDULE ---
VOLTAGE TO VARY

TRM	TERMINATION SCHEDULE	TYPE
L1	MAIN POWER CONNECTION HOT	120 VAC
L2	MAIN POWER CONNECTION NEUTRAL	0 VAC
N	COMM FROM UPSTREAM CONTROLLER	24 VDC
OUT	COMM TO DOWNSTREAM CONTROLLER	24 VDC
M1	AIR VOLUME NEUTRAL	24 VAC
M2	AIR VOLUME HOT	24 VAC
M3	AIR VOLUME SIGNAL 2-10V	VARIES



OUTPUT NUMBER	OUTPUT LABEL	OUTPUT TYPE	MIRROR (1, 2, 3, OR 4 SUPPLY (% OF EXHAUST))
1	KEF-3	EXHAUST	N/A
2	KEF-4	EXHAUST	N/A
3	MUA-2	SUPPLY	60%
4	KEF-5	EXHAUST	N/A



REFER TO HOOD DRAWINGS FOR REQUIRED INTERCONNECTIONS

TYPICAL FIRE SYSTEM WIRING DIAGRAM (ANSUL SHOWN)

VFD BY G.C. SPECIFICATION

- HARDWARE (MINIMUM VFD REQUIREMENTS)**
- WORKS WITH A 4-20 MA OR 2-10 V ANALOG INPUT.
 - PRODUCES A 24 VDC OR EQUIVALENT COMMON TO BE USED FOR REMOTE DRY CONTACT SWITCHING OF THE VFD(S). INDEPENDENT POWER SUPPLY ALSO ACCEPTED.
 - DRIVE TO MOTOR DISTANCE IS LESS THAN THE MAXIMUM SPECIFIED BY THE DRIVE MANUFACTURER.
 - DRIVE IS TO BE SIZED APPROPRIATELY FOR MOTOR RATED FLA AND VOLTAGE INPUTS.
- DRIVE INPUTS FROM GAYLORD DCV COMMAND CENTER**
- AS NOTED ON GAYLORD SUBMITTAL DRAWINGS UP TO FOUR VFDs MAY BE CONTROLLED THROUGH TERMINALS LABELED WITH AN ALPHANUMERIC, WHERE THE NUMBER CORRESPONDS TO A DISTINCT VFD (SEE TABLE 1). THE SYMBOL # IS SUBSTITUTED FOR THE NUMBER IN THE FOLLOWING.
- TERMINAL C# ACCEPTS A NOMINAL +24 VDC COMMON SIGNAL FROM AN EXHAUST FAN VFD.
 - TERMINAL S# OUTPUTS SIGNAL PROVIDED BY THE COMMON VOLTAGE (AT C#) TO COMMAND THE EXHAUST FAN VFD TO RUN.
 - a. C# IS THE DEFAULT COMMON FOR RH#.
 - b. HC# IS AN ALTERNATE COMMON FOR RH# IT IS TO BE USED WHEN THE VFD COMMAND POINTS FOR RUN AND RUN HIGH DO NOT SHARE A COMMON. THE TERMINAL JUMPER BETWEEN C# AND HC# MUST BE REMOVED TO SEPARATE THE VOLTAGE SOURCES.
 - TERMINALS DS# AND AC# PROVIDE THE SPEED SIGNAL TO THE EXHAUST FAN VFD.
 - a. DS# IS A 4-20 MA SIGNAL (OPTIONAL 2-10 V).
 - b. AC# IS THE ANALOG COMMON.
- PROGRAM SPECIFICATION**
- VFDs TO OPERATE WITH ANALOG 4-20MA INPUT. 4 MA REPRESENTS 0 HZ AND 20 MA REPRESENTS THE MAXIMUM MOTOR SPEED, TYPICALLY 60 HZ (2-10V IS OPTIONAL).
 - VFDs TO START (RECEIVE RUN COMMAND) BY EXTERNAL CONTACT CLOSURE PROVIDED BY GAYLORD ON C# AND S#. CONTACT CLOSURE WILL TAKE THE UNLOADED SYSTEM TO MINIMUM FAN SPEED (DEFAULT 30 HZ).
 - VFD CONSTANTS FOR THE MOTOR CONTROLLED TO BE DETERMINED AND ADDED, EX. THERMAL OVERLOAD, RATE VOLTAGE, ETC.
 - SET ACCELERATION TIME TO 8 SECONDS OR 7.5 HZ/SECOND.
 - SET DECELERATION TIME TO 48 SECONDS OR 1.25 HZ/SECOND. - SLOW DECELERATION PREVENTS INSTABILITY IN THE SYSTEM.
 - SETUP EACH VFD FOR A "RUN HIGH" COMMAND FROM RH# THAT WILL RAMP THE DRIVE TO 100% OR 60 HZ. THIS FUNCTION IS ESSENTIAL FOR PROPER RESPONSE TO A FIRE PROTECTION SYSTEM DISCHARGE.
 - SET THE MODULATION RANGE FOR EACH VFD. THE AIRVENTAGE SYSTEM WILL MANAGE THE TURNDOWN OVER A 0-60 HZ RANGE.
 - a. SET THE VFD BIAS 4 MA = 0 HZ.
 - b. SET THE VFD GAIN 20 MA = 60 HZ.

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APPROVALS

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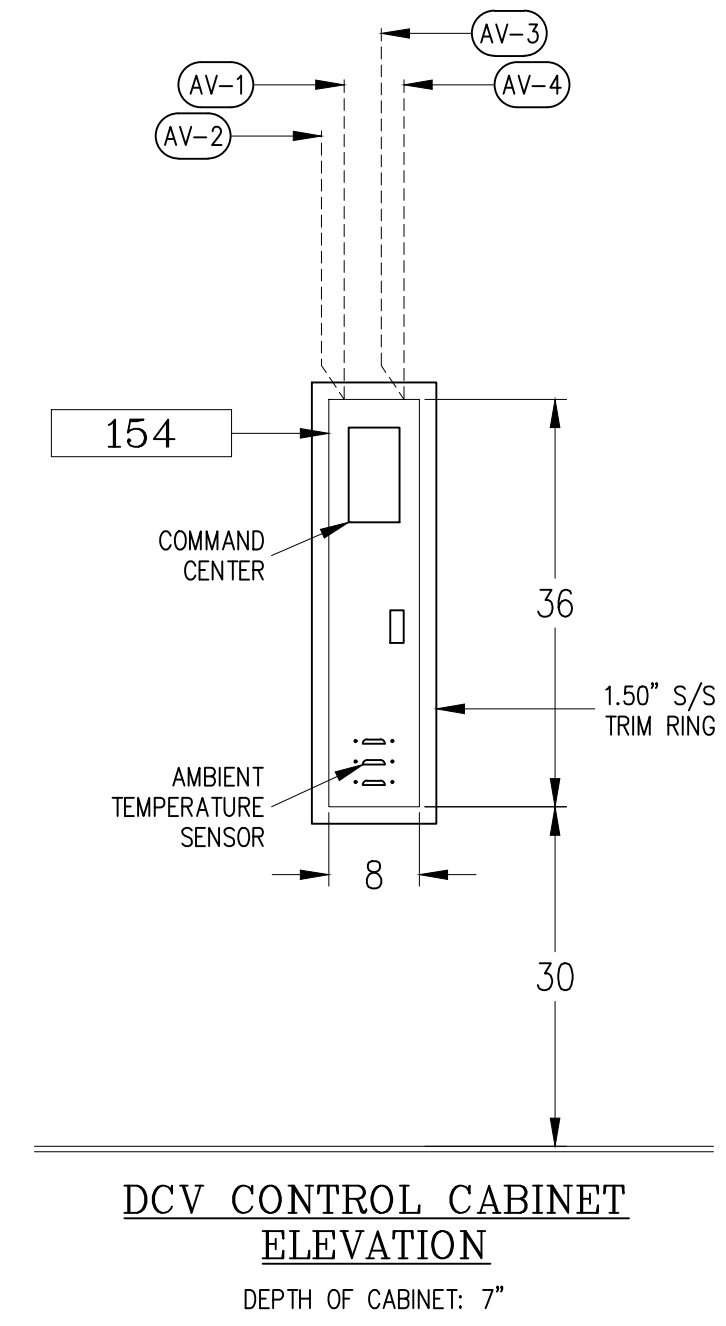
Project Title
**CALEXICO UNIFIED SCHOOL DISTRICT
CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
**FOODSERVICE EQUIPMENT
DCV DETAILS ITEM 72**

	Document Date 09-12-18	Project Number 18-25CX
	Date Last Revised -	Sheet Number FS.10.8

B TYPICAL FIRE SYSTEM WIRING DIAGRAM (ANSUL SHOWN) & DCV CONTROL CABINET (Item #72)

N.T.S.



DCV CONTROL CABINET WIRING NOTES

AV-1 (2) WIRES AND GROUND FROM DCV CONTROL CABINET TO NON-INTERRUPTIBLE SUPPLY VOLTAGE SERVICE BY ELECTRICAL CONTRACTOR.

AV-2 (1) CAT 5 CABLE FROM DCV CONTROL CABINET TO 1ST HOOD AVHC BY ELECTRICAL CONTRACTOR.

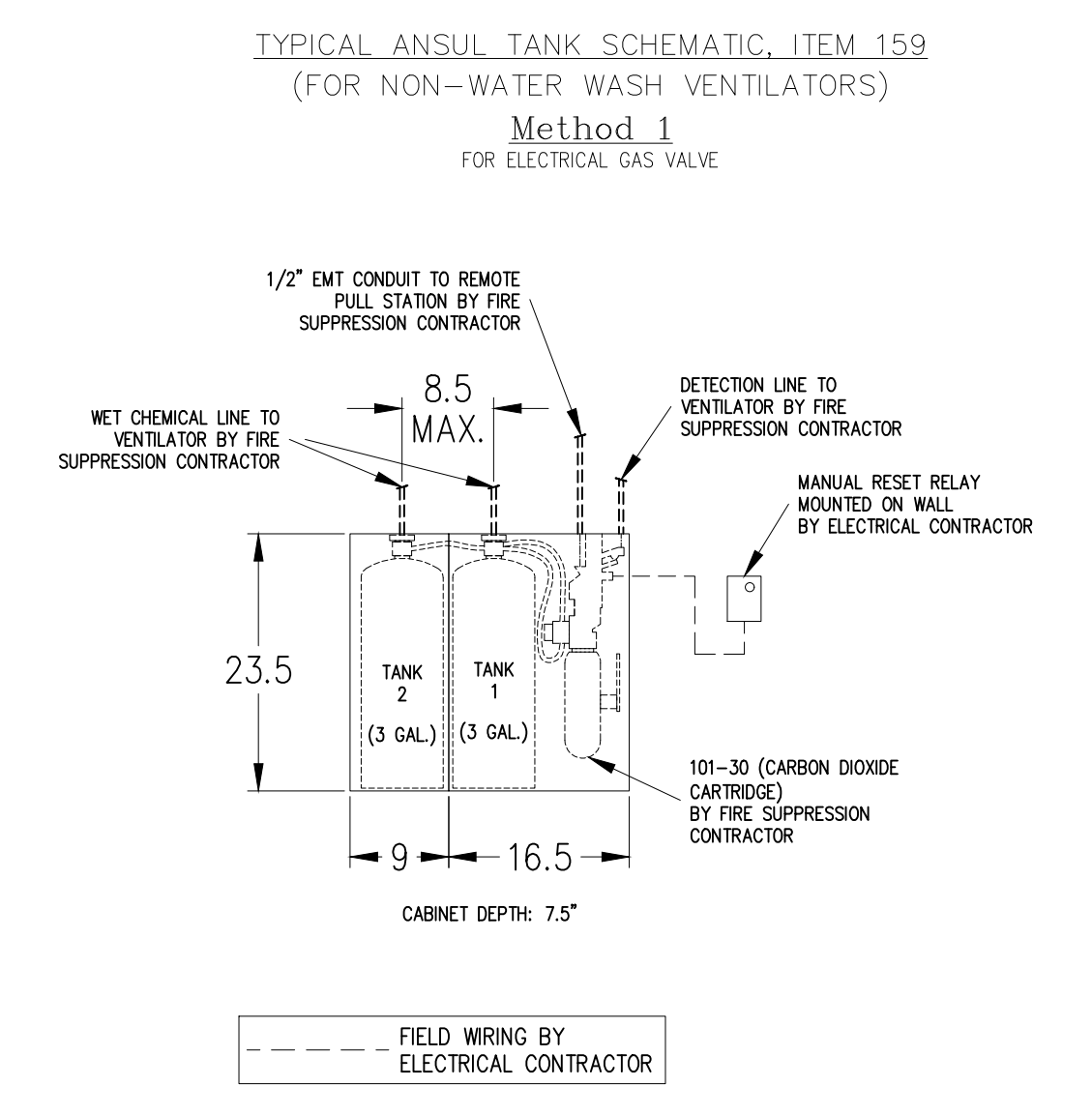
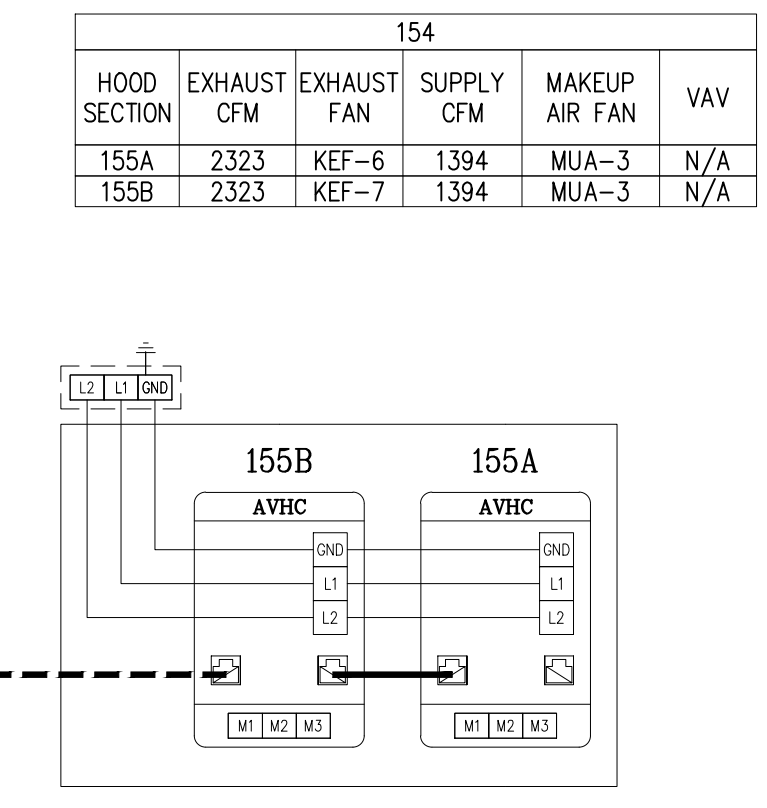
AV-3 (2) WIRES FROM DCV CONTROL CABINET TO FIRE SUPPRESSION SYSTEM MICRO SWITCHES BY ELECTRICAL CONTRACTOR.

AV-4 (6) WIRE LOW VOLTAGE CABLE FROM DCV CONTROL CABINET TO EACH VFD BY ELECTRICAL CONTRACTOR.

DCV CONTROL CABINET INSTALLATION NOTES

DCV CONTROL CABINET MUST BE LOCATED WITHIN 50 FEET OF AND IN THE SAME KITCHEN AS THE HOODS IT WILL CONTROL.

DCV CONTROL CABINET MUST BE LOCATED AT LEAST 2 FEET HORIZONTALLY FROM COOKING EQUIPMENT AND HEAT GENERATING APPLIANCES.



A DCV CONTROL CABINET WIRING NOTES & INSTALLATION NOTES (Item #154)

N.T.S.

DCV CONTROL CABINET

--- SUPPLY VOLTAGE ---
120 VAC, 60Hz
1 AMP MAXIMUM CONNECTED LOAD

TRM	TERMINATION SCHEDULE	TYPE
L	MAIN POWER CONNECTION HOT	120 VAC
N	MAIN POWER CONNECTION NEUTRAL	0 VAC
FH1	FIRE SYSTEM INPUT HOT	120 VAC
FH2	FIRE SYSTEM NEUTRAL	0 VAC
RS1	REMOTE START +24V	24 VDC
RS2	REMOTE START COMMON	24 VDC
AL	ALARM CONTACT NO.	VARIES
ALC	ALARM CONTACT COMMON	VARIES
J9	BACNET IP	CATS
J6	HOOD COMMUNICATION	CATS
EF1	COMMON FROM EXTERNAL CONTROLLER	24 VDC
EF2	EF RUN STATUS (NO)	24 VDC
CI	BINARY COMMON INPUT	VARIES
SI	BINARY OUTPUT (RUN)	VARIES
HC1	OPTIONAL COMMON FOR RH1	24 VDC
RH1	RUN HIGH (USES C1 COMMON)	VARIES
DS1	OUTPUT 2-10V (4-20mA FOR VFD ONLY)	VARIES
AC1	ANALOG COMMON	0VDC
C2	BINARY COMMON (INPUT)	24 VDC
S2	BINARY OUTPUT (RUN)	24 VDC
HC2	OPTIONAL COMMON FOR RH2	24 VDC
RH2	RUN HIGH (USES C2 COMMON)	24 VDC
DS2	OUTPUT 2-10V (4-20mA FOR VFD ONLY)	VARIES
AC2	ANALOG COMMON	0VDC
C3	BINARY COMMON (INPUT)	24 VDC
S3	BINARY OUTPUT (RUN)	24 VDC
HC3	OPTIONAL COMMON FOR RH3	24 VDC
RH3	RUN HIGH (USES C3 COMMON)	24 VDC
DS3	OUTPUT 2-10V (4-20mA FOR VFD ONLY)	VARIES
AC3	ANALOG COMMON	0VDC
C4	BINARY COMMON (INPUT)	24 VDC
S4	BINARY OUTPUT (RUN)	24 VDC
HC4	OPTIONAL COMMON FOR RH4	24 VDC
RH4	RUN HIGH (USES C4 COMMON)	24 VDC
DS4	OUTPUT 2-10V (4-20mA FOR VFD ONLY)	VARIES
AC4	ANALOG COMMON	0VDC
PA1	OUTPUT 2-10V FOR ECM ONLY	VARIES
NA1	ANALOG COMMON FOR ECM ONLY	0VDC
PA2	OUTPUT 2-10V FOR ECM ONLY	VARIES
NA2	ANALOG COMMON FOR ECM ONLY	0VDC
PA3	OUTPUT 2-10V FOR ECM ONLY	VARIES
NA3	ANALOG COMMON FOR ECM ONLY	0VDC
PA4	OUTPUT 2-10V FOR ECM ONLY	VARIES
NA4	ANALOG COMMON FOR ECM ONLY	0VDC

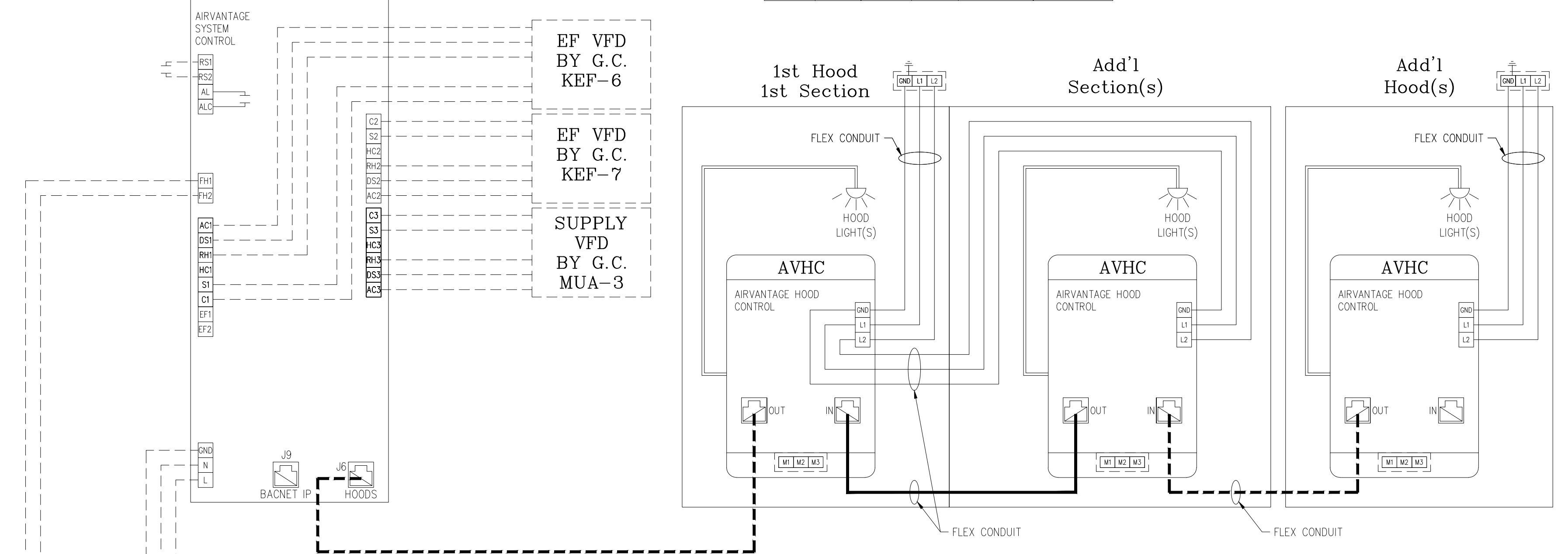
--- CONTROLLER TERMINATION SCHEDULE ---
VOLTAGE TO VARY

TRM	TERMINATION SCHEDULE	TYPE
L1	MAIN POWER CONNECTION HOT	120 VAC
L2	MAIN POWER CONNECTION NEUTRAL	0 VAC
IN	COMM FROM UPSTREAM CONTROLLER	24 VDC
OUT	COMM TO DOWNSTREAM CONTROLLER	24 VDC
M1	AIR VOLUME NEUTRAL	24 VAC
M2	AIR VOLUME HOT	24 VAC
M3	AIR VOLUME SIGNAL 2-10V	VARIES

--- FIELD WIRING BY ELECTRICAL CONTRACTOR ---
--- WIRING BY GAYLORD ---
--- CAT 5 FIELD WIRING BY ELECTRICAL CONTRACTOR ---
--- CAT 5 WIRING BY GAYLORD ---

DCV 154

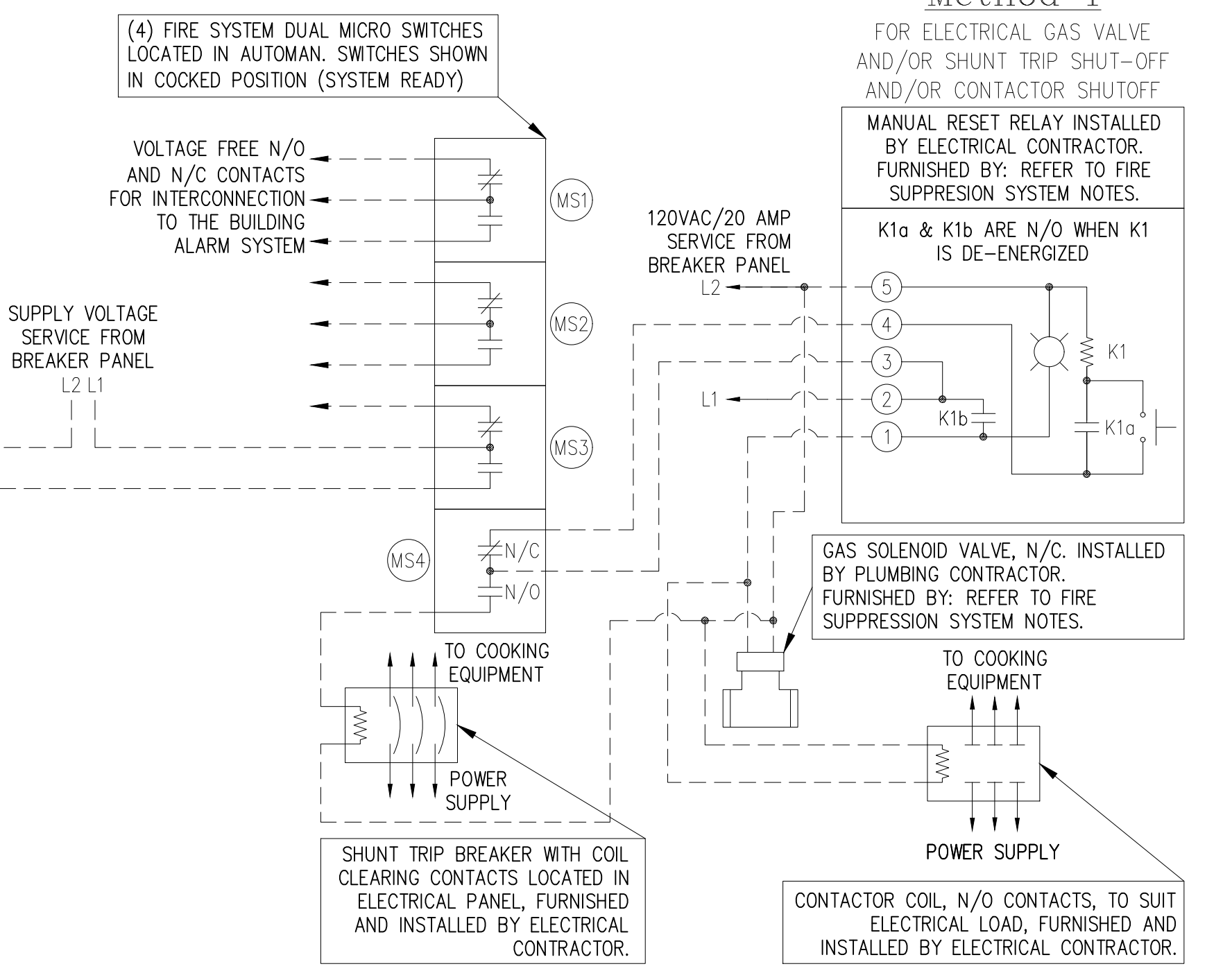
OUTPUT NUMBER	OUTPUT LABEL	OUTPUT TYPE	MIRROR (1, 2, 3, OR 4 SUPPLY (% OF EXHAUST))
1	KEF-6	EXHAUST	N/A
2	KEF-7	EXHAUST	N/A
3	MUA-3	SUPPLY	60%
4	N/A	DISABLED	N/A



REFER TO HOOD DRAWINGS FOR REQUIRED INTERCONNECTIONS

TYPICAL FIRE SYSTEM WIRING DIAGRAM (ANSUL SHOWN)

Method 1



VFD BY G.C. SPECIFICATION

HARDWARE (MINIMUM VFD REQUIREMENTS)

- WORKS WITH A 4-20 MA OR 2-10 V ANALOG INPUT.
- PRODUCES A 24 VDC OR EQUIVALENT COMMON TO BE USED FOR REMOTE DRY CONTACT SWITCHING OF THE VFD(S). INDEPENDENT POWER SUPPLY ALSO ACCEPTED.
- DRIVE TO MOTOR DISTANCE IS LESS THAN THE MAXIMUM SPECIFIED BY THE DRIVE MANUFACTURER.
- DRIVE IS TO BE SIZED APPROPRIATELY FOR MOTOR RATED FLA AND VOLTAGE INPUTS.

DRIVE INPUTS FROM GAYLORD DCV COMMAND CENTER

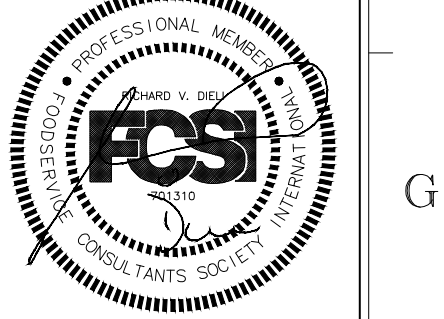
AS NOTED ON GAYLORD SUBMITTAL DRAWINGS UP TO FOUR VFDs MAY BE CONTROLLED THROUGH TERMINALS LABELED WITH AN ALPHANUMERIC, WHERE THE NUMBER CORRESPONDS TO A DISTINCT VFD (SEE TABLE 1). THE SYMBOL # IS SUBSTITUTED FOR THE NUMBER IN THE FOLLOWING:

- TERMINAL C# ACCEPTS A NOMINAL +24 VDC COMMON SIGNAL FROM AN EXHAUST FAN VFD.
- TERMINAL S# OUTPUTS SIGNAL PROVIDED BY THE COMMON VOLTAGE (AT C#) TO COMMAND THE EXHAUST FAN VFD TO RUN.
- TERMINAL RH# OUTPUTS SIGNAL PROVIDED BY THE COMMON VOLTAGE.
 - a. C# IS THE DEFAULT COMMON FOR RH#.
 - b. HC# IS AN ALTERNATE COMMON FOR RH#. IT IS TO BE USED WHEN THE VFD COMMAND POINTS FOR RUN AND RUN HIGH DO NOT SHARE A COMMON. THE TERMINAL JUMPER BETWEEN C# AND HC# MUST BE REMOVED TO SEPARATE THE VOLTAGE SOURCES.
- TERMINALS DS# AND AC# PROVIDE THE SPEED SIGNAL TO THE EXHAUST FAN VFD
 - a. DS# IS A 4-20 MA SIGNAL (OPTIONAL 2-10 V)
 - b. AC# IS THE ANALOG COMMON

PROGRAM SPECIFICATION

- VFDs TO OPERATE WITH ANALOG 4-20MA INPUT. 4 MA REPRESENTS 0 HZ AND 20 MA REPRESENTS THE MAXIMUM MOTOR SPEED, TYPICALLY 60 HZ (2-10V IS OPTIONAL).
- VFDs TO START (RECEIVE RUN COMMAND) BY EXTERNAL CONTACT CLOSURE. PROVIDED BY GAYLORD ON C# AND S# CONTACT CLOSURE WILL TAKE THE UNLOADED SYSTEM TO MINIMUM FAN SPEED (DEFAULT 30 HZ).
- VFD CONSTANTS FOR THE MOTOR CONTROLLED TO BE DETERMINED AND ADDED. EX: THERMAL OVERLOAD, RATE VOLTAGE, ETC.
- SET ACCELERATION TIME TO 8 SECONDS OR 7.5 HZ/SECOND.
- SET DECELERATION TIME TO 48 SECONDS OR 1.25 HZ/SECOND. SLOW DECELERATION PREVENTS INSTABILITY IN THE SYSTEM.
- SETUP EACH VFD FOR A RUN HIGH COMMAND FROM RH# THAT WILL RAMP THE DRIVE TO 100% OR 80 HZ. THIS FUNCTION IS ESSENTIAL FOR PROPER RESPONSE TO A FIRE PROTECTION SYSTEM DISCHARGE.
 - a. SET THE MODULATION RANGE FOR EACH VFD. THE ARVANTAGE SYSTEM WILL MANAGE THE TURNDOWN OVER A 0-60 HZ RANGE.
 - b. SET THE VFD BIAS 4 MA = 0 HZ.

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Project Title
**CALEXICO UNIFIED SCHOOL DISTRICT
CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
**FOODSERVICE EQUIPMENT
DCV DETAILS ITEM 154**

	Document Date 09-12-18	Project Number 18-25CX
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N.T.S.

B TYPICAL FIRE SYSTEM WIRING DIAGRAM (ANSUL SHOWN) & DCV CONTROL CABINET (Item #154)

PIPE SCHEDULE

SERVICE	LOCATION	PIPE TYPE											FITTINGS	NOTES	
		TYPE K COPPER	TYPE L COPPER	TYPE M COPPER	TYPE N COPPER	ALUMINUM	ALUMINUM CUSHION	304/316 SS	304/316 SS BLACK STEEL	304/316 SS GALV	304/316 SS GALV	304/316 SS GALV			
WATER	ABV GRADE	●												WROT COPPER SOLDER	1-4
	BEL GRADE													SOLVENT CEMENT PVC	4
WASTE & VENT	ABV GRADE				●									Z BAND NO - HUB COUPLINGS	
	BEL GRADE													SOLVENT CEMENT - ABS	4-5
RAINWATER	ABV GRADE													Z BAND NO - HUB COUPLINGS	8
	BEL GRADE													SOLVENT CEMENT - ABS	8
FUEL GAS	ABV GR-INT													MALLEABLE THREADED	
	ABV GR-EXT													MALLEABLE THREADED GALV	
AC COND DRAIN	BEL GRADE													HEAT FUSION	
	INTERIOR													WROT COPPER SOLDER	8
INDIRECT DRAIN	INTERIOR													WROT COPPER SOLDER	7
	EXTERIOR													WROT COPPER SOLDER	

- NOTES:
- INSULATE HOT WATER w/ 1" FIBERGLASS PIPE INSUL w/ ASJ AND FITTING COVERS.
 - LEAD FREE SOLDER.
 - PIPING BELOW FLOOR TO BE SOFT TEMPER w/ NO JOINTS BELOW FLOOR.
 - WRAP SLAB PENETRATIONS.
 - SLOPE PIPING AT 1/4" (2%) PER FOOT, OBTAIN BUILDING OFFICIAL PERMISSION FOR 1/8" (1%) SLOPE.
 - INSULATE w/ 3/8" WALL FOAMED PLASTIC PIPE INSULATION @ REFRIGERATED EQUIPMENT DRAINS.
 - SLOPE PIPING AT 1/8" (1%) PER FOOT MIN.
 - NOT APPLICABLE (N/A)

WATER USE SCHEDULE

BUILDING	FIXTURE TYPE	MAX FLOW RATE	
		BASELINE	PROPOSED DESIGN
CULINARY ARTS	LAVATORY (HAND SINK) FAUCET	0.5 GPM	0.5 GPM
	KITCHEN FAUCET	1.8 GPM	N/A

- NOTES:
- PLUMBING FIXTURES SHALL MEET THE MAXIMUM FLOW RATE VALUES PER 2016 CGC CHAPTER 5 DIVISION 3.

LEGEND:

ABBR	SYMBOL	DESCRIPTION
CH	---	COLD WATER PIPING
HW	---	HOT WATER PIPING
HWR	---	HOT WATER RETURN PIPING
NG	---	NATURAL GAS PIPING
S	---	SANITARY VENT PIPING
S or W	---	WASTE/SEWER PIPING BELOW GRADE
S or W	---	SOIL or WASTE ABOVE GRADE
CD	---	CONDENSATE DRAIN PIPING
D	---	INDIRECT DRAIN PIPING
SD	---	STORM DRAIN PIPING
OD	---	OVERFLOH STORM DRAIN PIPING
FS	---	FLOOR SINK
FD	---	FLOOR DRAIN
RD / OD	---	ROOF DRAIN / OVER FLOW DRAIN
MCO	---	HALL CLEAN-OUT
FCO	---	FLOOR CLEAN-OUT
COTS	---	CLEAN-OUT TO GRADE
P & TRV	---	PRESS & TEMP RELIEF VALVE
SOV	---	SHUT OFF (BALL) VALVE (IN RISER)
SOV	---	SHUT OFF (BALL) VALVE (IN-LINE)
CV	---	CHECK VALVE
STR	---	STRAINER
BFP	---	RED PRESSURE BACKFLOW PREVENTER
	---	UNION
	---	GAP
HB	---	HOSE BIBB
POC	---	POINT OF CONNECTION
VTR	---	VENT THRU ROOF
UG	---	UNDER GROUND
B/F	---	BELOW FLOOR
A/C	---	ABOVE CEILING
UTR	---	UP THROUGH ROOF
YB	---	YARD BOX
WHA	---	WATER HAMMER ARRESTOR
AP	---	ACCESS PANEL
UNO	---	UNLESS NOTED OTHERWISE
GW	---	GREASE WASTE
AW	---	ACID WASTE
AV	---	ACID VENT

GENERAL NOTES:

- THESE DRAWINGS ARE A DIAGRAMMATIC REPRESENTATION OF THE PLUMBING WORK TO BE ACCOMPLISHED AND AS SUCH ARE NOT INTENDED TO SHOW ALL REQUIRED OFFSETS OF PIPING. THE PLUMBING CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT SO AS TO CONFORM TO THE STRUCTURE, AVOID OBSTRUCTIONS, AND MAINTAIN HEADROOM AND PASSAGEWAYS.
- ALL LOCATIONS, POINTS-OF-CONNECTION, INVERTS, SIZES, AND AVAILABILITY OF ALL EXISTING UTILITIES SHALL BE VERIFIED BY THE PLUMBING CONTRACTOR PRIOR TO THE COMMENCEMENT OF THE INSTALLATION.
- THE PLUMBING CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF OTHER TRADES PRIOR TO COMMENCEMENT OF THE PLUMBING INSTALLATION.
- ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ALL APPLICABLE CODES, INCLUDING TITLE 24 CCR.
- WHERE PLUMBING PENETRATES AREA SEPARATION WALL SURFACES THE SECTION PASSING THROUGH THE WALL SURFACE AND CONNECTED TO THE ATTACHED FIXTURE SHALL BE ONLY OF METAL.
- FOR MINIMUM PLUMBING FIXTURE CLEARANCES AND ELEVATIONS SEE ARCHITECTURAL DRAWINGS.
- WATER HEATER/BOILER WILL COMPLY WITH SECTION 608.3, 2016 CPC FOR THERMAL EXPANSION REQUIREMENTS AND WITH SECTION 510.5, 2016 CPC FOR SEISMIC RESTRAINT REQUIREMENTS.
- STATE HEALTH AND SAFETY CODE SECTION 17421.9 BANS THE USE OF CHLORINATED POLYVINYL CHLORIDE (CPVC) FOR INTERIOR WATER-SUPPLY PIPING.
- FLAME SPREAD / SMOKE SPREAD FOR ALL PIPE INSULATION SHALL BE 25/50 MAX.

DESIGN CRITERIA:

MEP COMPONENT ANCHORAGE NOTE

- ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAILS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE OF DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.8 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 & 30.
 - ALL PERMANENT EQUIPMENT AND COMPONENTS.
 - TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD HIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
 - MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND 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 ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.
- THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.
 - 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.
 - COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HANG FROM A WALL.
- FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL, RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER. DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER, THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

- PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.3.6, 13.6.3.7, 13.6.3.8 AND 2016 CBC, SECTIONS 1616A.1.24, 1616A.1.25 AND 1616A.1.26.
- THE METHOD OF SHOWING BRACINGS AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACINGS AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G. SHACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOB SITE 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 SYSTEM (E)

- MP MD PP E - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
- MP MD PP E - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #0010.
- MP MD PP E - OPTION 3: SHALL COMPLY WITH THE SHACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA, FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SHACNA SEISMIC RESTRAINT MANUAL. OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL AND CONNECTION LEVEL _____ FOR THE PROJECT AND CONDITIONS.

PLASTIC PIPE IN PLUMBING SYSTEMS:

- APPROPRIATE PLASTIC PIPE MAY BE USED FOR VENT PIPING IN BUILDINGS. IT MAY BE USED FOR WASTE LINES IN PORTABLE BUILDINGS ONLY. IT MAY BE USED FOR DRAINS CARRYING ACID WASTE LABORATORIES. IT SHALL NOT BE USED FOR WATER DISTRIBUTION LINES WITHIN A DISTANCE OF 5 FEET OUTSIDE OF BUILDINGS.
- PLASTIC PIPE OF THE APPROPRIATE CLASS MAY BE USED UNDERGROUND OUTSIDE OF BUILDINGS FOR CARRYING GAS AND DRAINAGE WASTE.
- PLASTIC CONDUIT AND INSULATION MAY BE USED WHERE PERMITTED IN TITLE 24.

PLUMBING FIXTURE SCHEDULE:

- P-1 FOODSERVICE SINK, ACCESSIBLE
SEE FOODSERVICE DRAWINGS AND SPECIFICATIONS
- P-2 FOODSERVICE SINK
SEE FOODSERVICE DRAWINGS AND SPECIFICATIONS
- P-3 HAND SINK (LAV)
SEE FOODSERVICE DRAWINGS AND SPECIFICATIONS
- P-4 MOP BASIN
BASIN - FIAT #2424MSB 3" OUTLET
FAUCET - FIAT #830-AA w/ VACUUM BREAKER
STRAINER - FIAT #1414 BASIN ACCESSORY - #832-AA HOSE AND BRACKET, BUMPER GUARDS
- P-5 FLOOR DRAIN
DRAIN - ZURN #Z-415 w/ 1/4" MAX 5 STRAINER OPENINGS IN ALL DIRECTIONS
ACCESSORY - TRAP PRIMER INLET
- P-6 FLOOR SINK
SINK - ZURN #Z-1901, 12" x 12" x 8" DEEP w/ FLANGE AND COLLAR
ACCESSORIES - GRATE AS NOTED IN FOODSERVICE DRAWINGS
- P-7 WATER HEATER, GAS-FIRED (KITCHEN)
HEATER - A.O. SMITH #BTH250, 250,000 BTUH INPUT, 100 GAL. TANK
RECOVERY CAPACITY/EFFICIENCY - 350 GPM @ 80 DEGREE RISE/80% EFF
ACCESSORIES - CONCENTRIC CENT KIT, AMTROL #5T-12 EXPANSION TANK, VICTAULIC DIELECTRIC WATERWAYS AT ALL WATER PIPING CONNECTIONS, 125 PSIG ASME P4 TRV, THERMOMETER
WARRANTY: PROVIDE WITH MANUFACTURER'S EXTENDED WARRANTY
- P-8 CIRCULATING PUMP, IN-LINE
PUMP - GRUNDFOS #UPS-42B5
CAPACITY - 5 GPM @ 10' TDH
ELEG - 1/2 HP, # 120-H40
CONTROL - HONEYWELL IMMERSIONSTAT
- P-9 GREASE INTERCEPTOR
INTERCEPTOR - SCHIER #SB-250, HPDE, 4" INLET/OUTLET w/SAMPLE BOX
ACCESS - 24" GASTIGHT FRAME & COVER (2) WRISERS AS REQUIRED TO FINISH GRADE
CAPACITY - 100 GPM, 1076 LBS GREASE, 250 GAL
INSTALLATION - PER MFR INSTALLATION INSTRUCTIONS
LOAD RATING - TRAFFIC RATED FOR HS-20 LOADING w/1' TO 6' OF COVER
- P-10 FLOOR TROUGH DRAIN w/ GRATE
SEE FOODSERVICE DRAWINGS AND SPECIFICATIONS



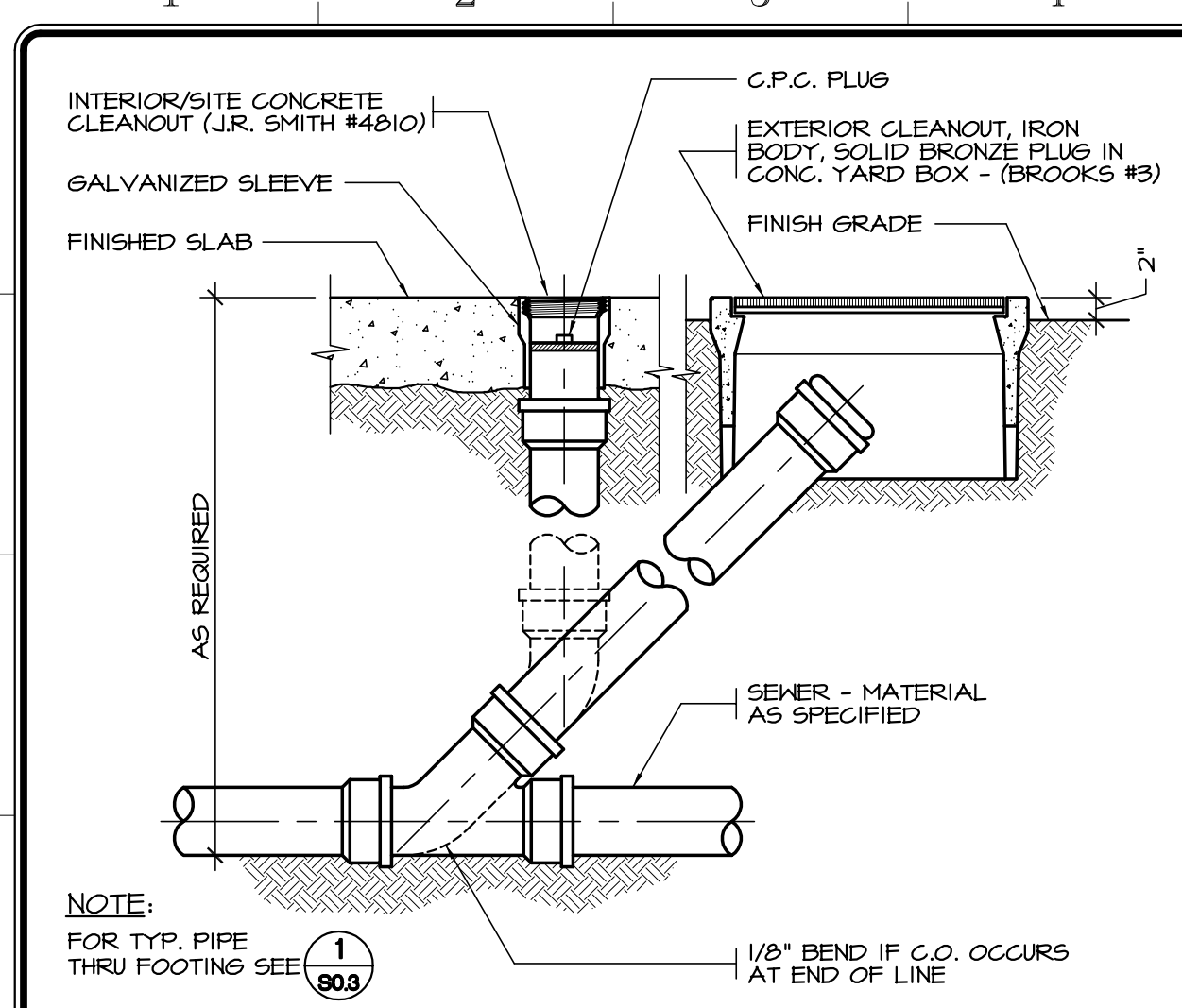
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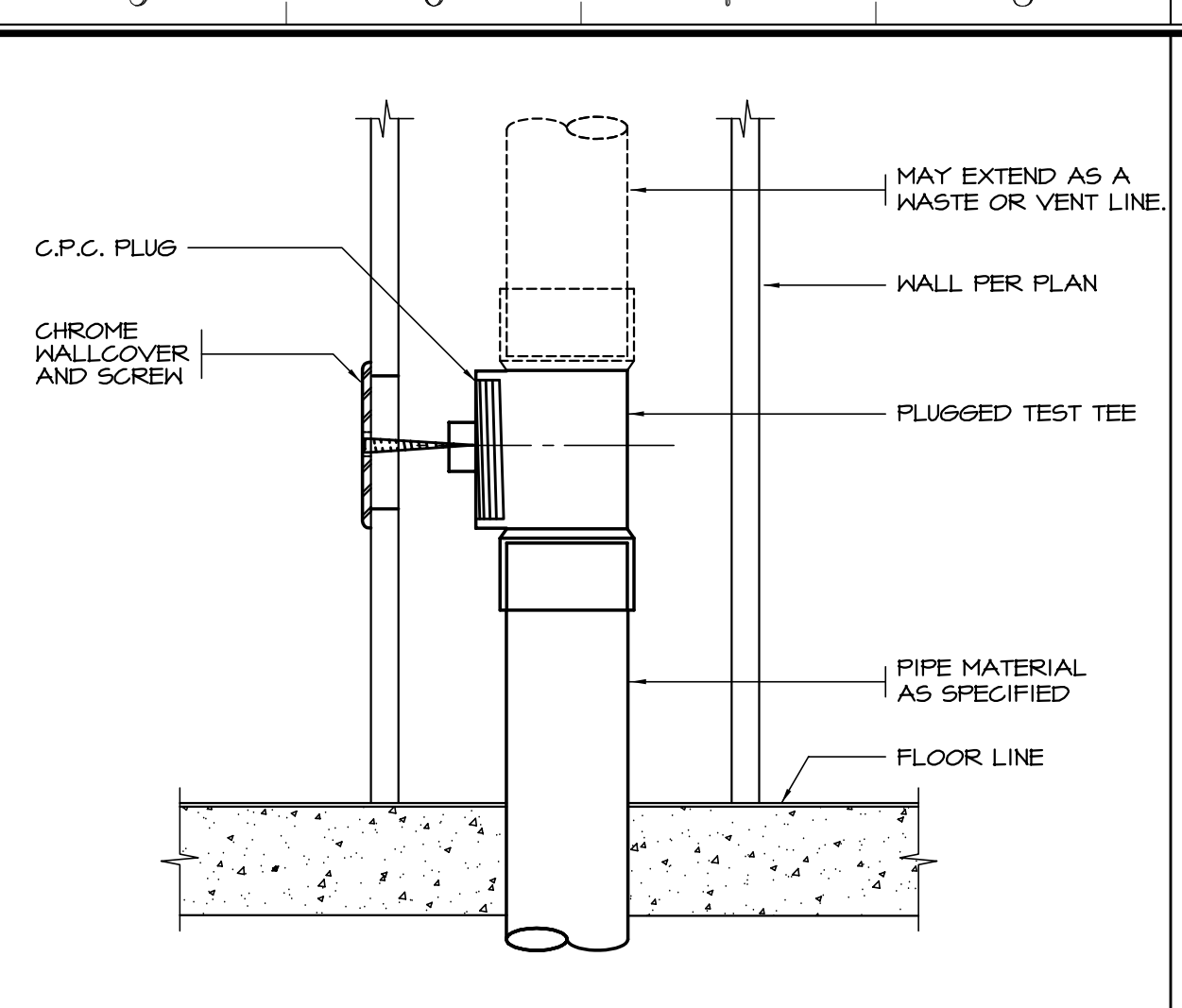
Project Title
**CALEXICO UNION HIGH SCHOOL DISTRICT
 CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

LEGEND AND NOTES

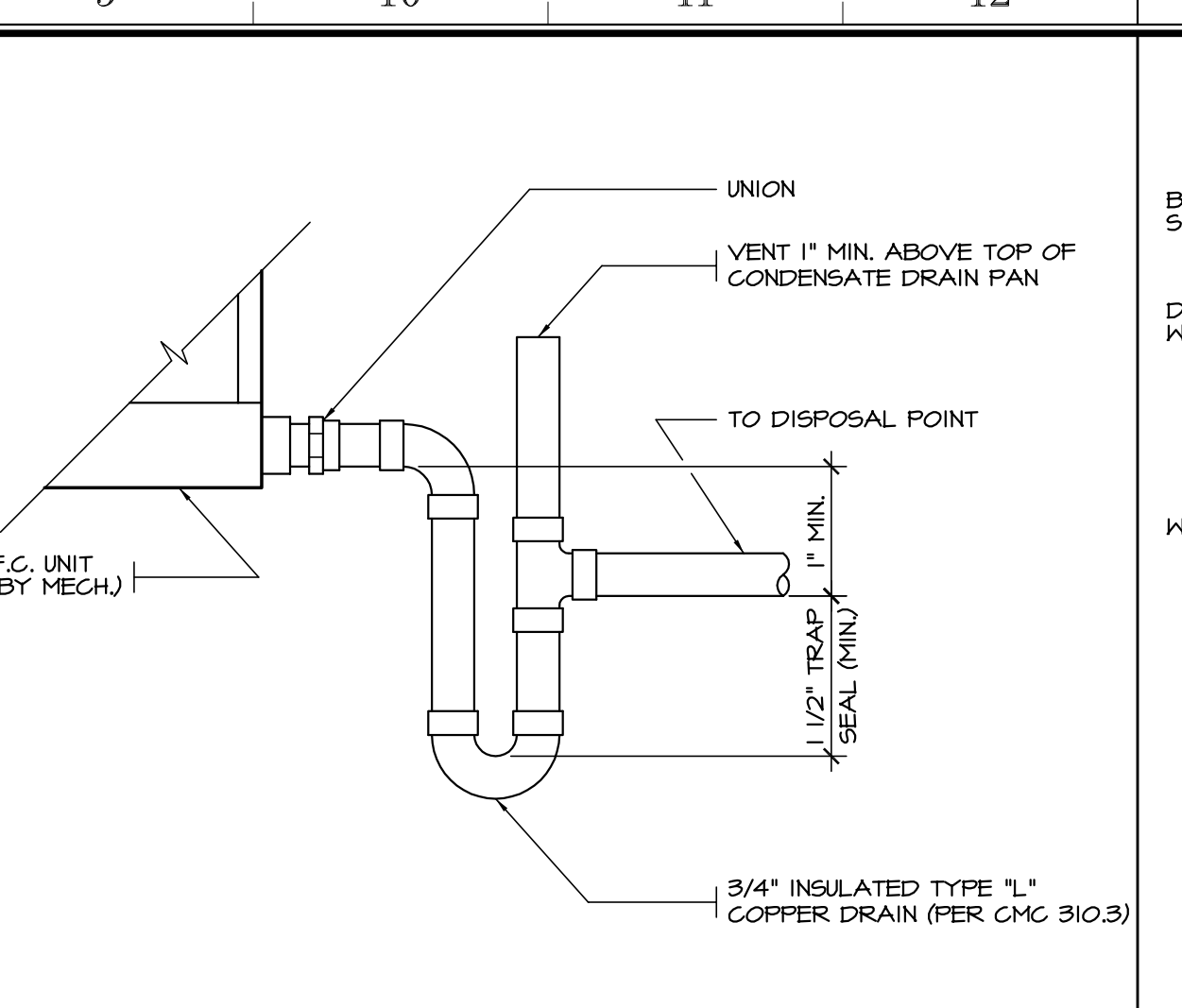
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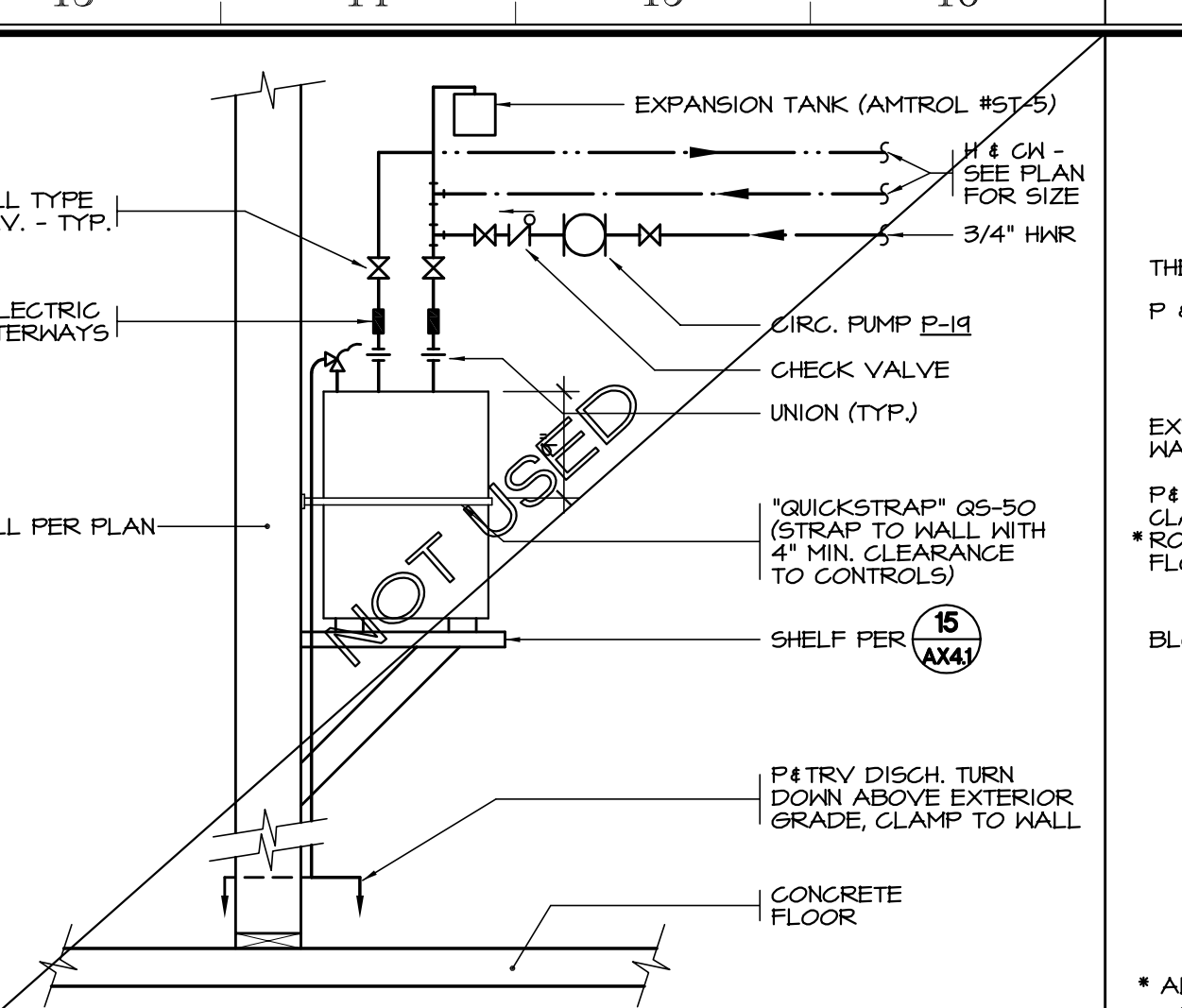
1 CLEANOUT TO GRADE SCALE: NTS 1



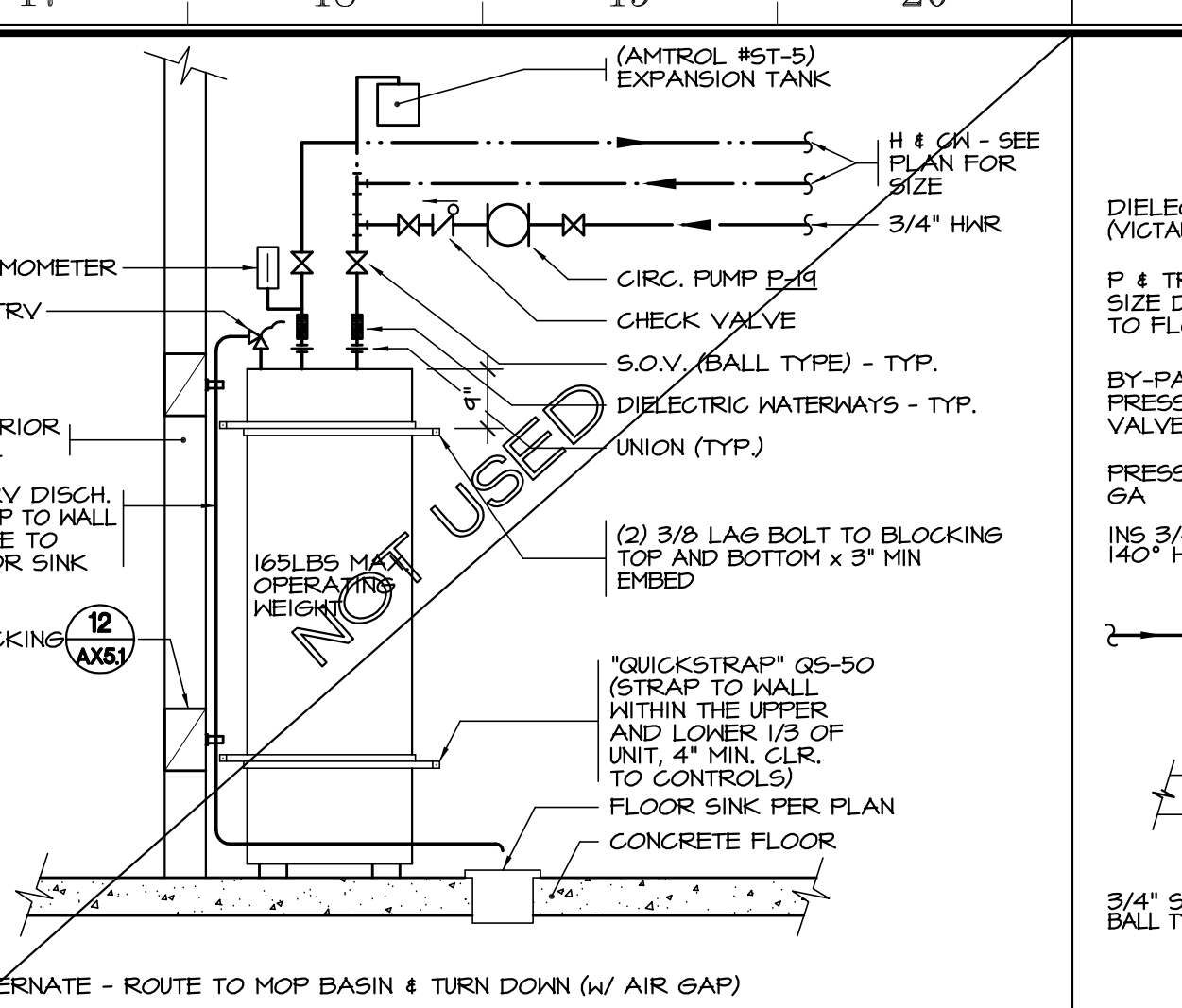
2 WALL CLEANOUT SCALE: NTS 2



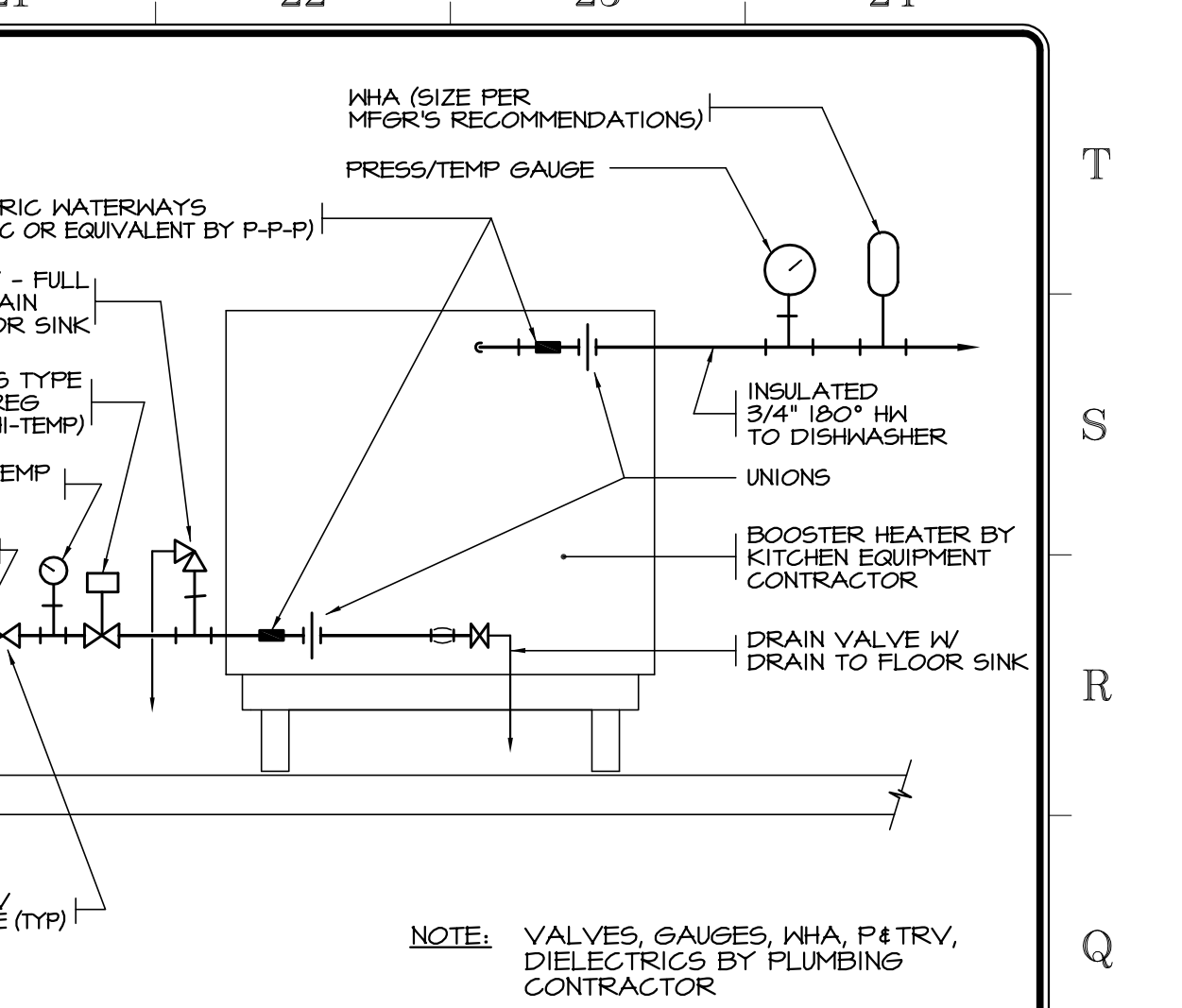
3 CONDENSATE DRAIN TRAP SCALE: NTS 3



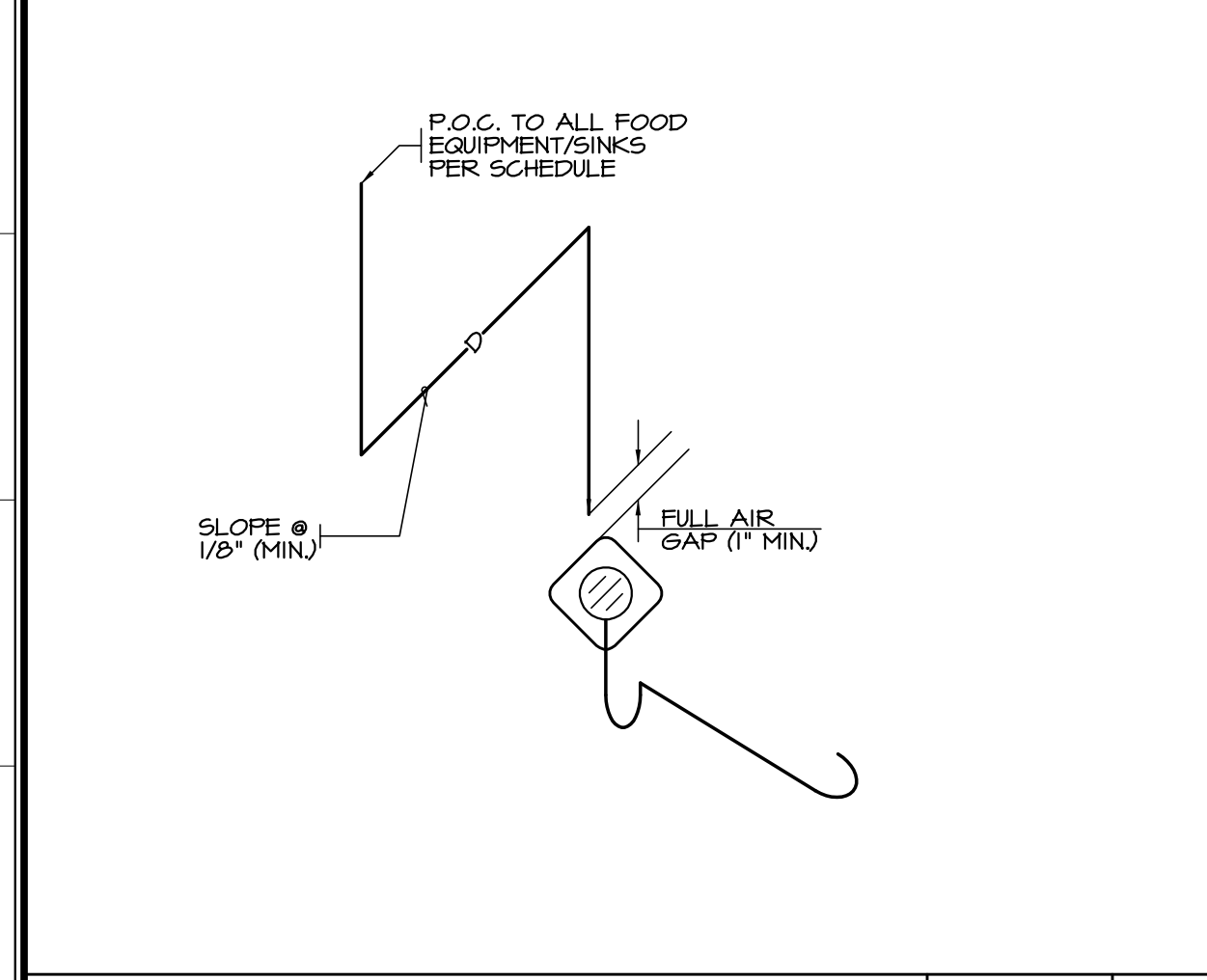
4 WATER HEATER ON SHELF SCALE: NTS 4



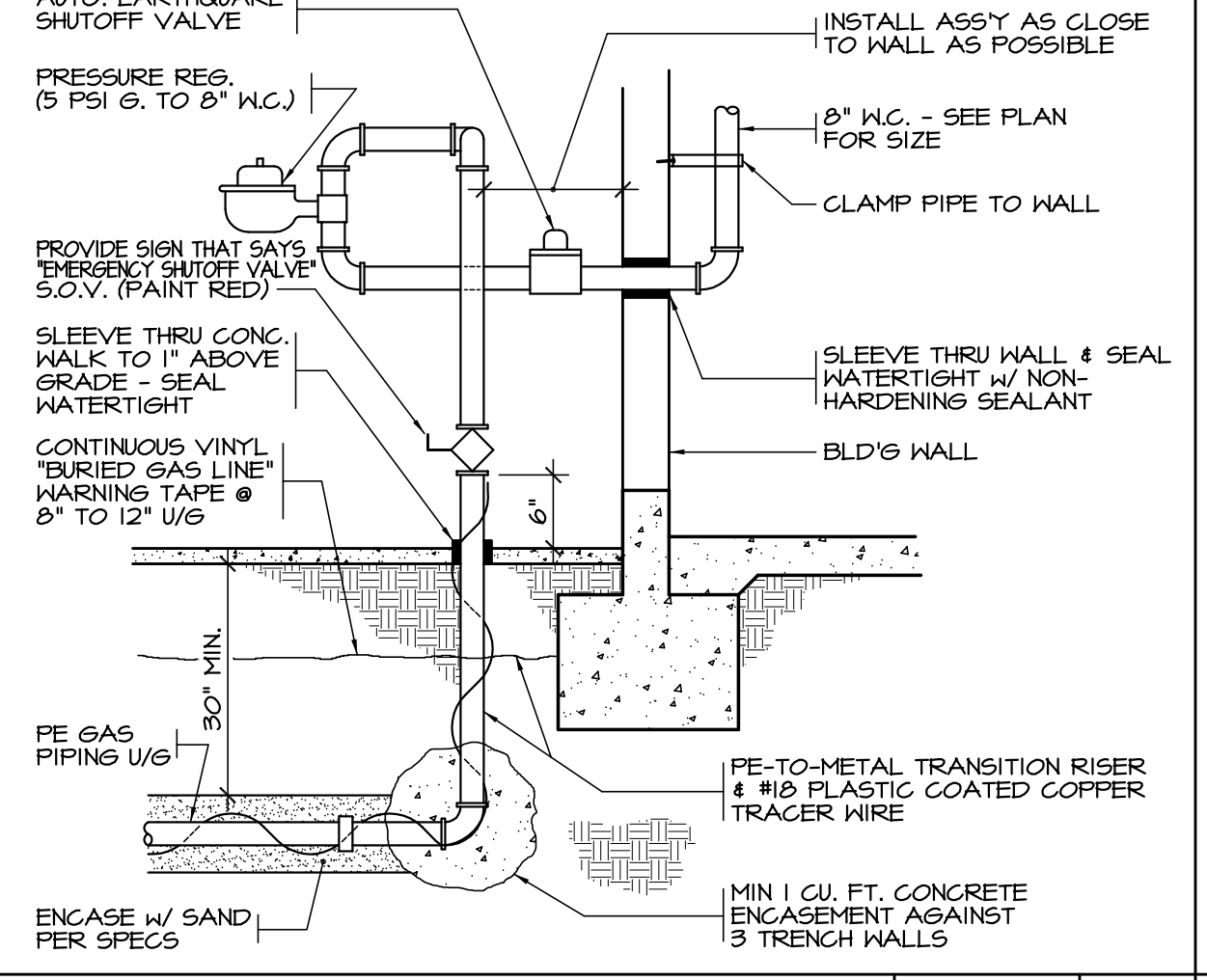
5 WATER HEATER PIPING DIAGRAM SCALE: NTS 5



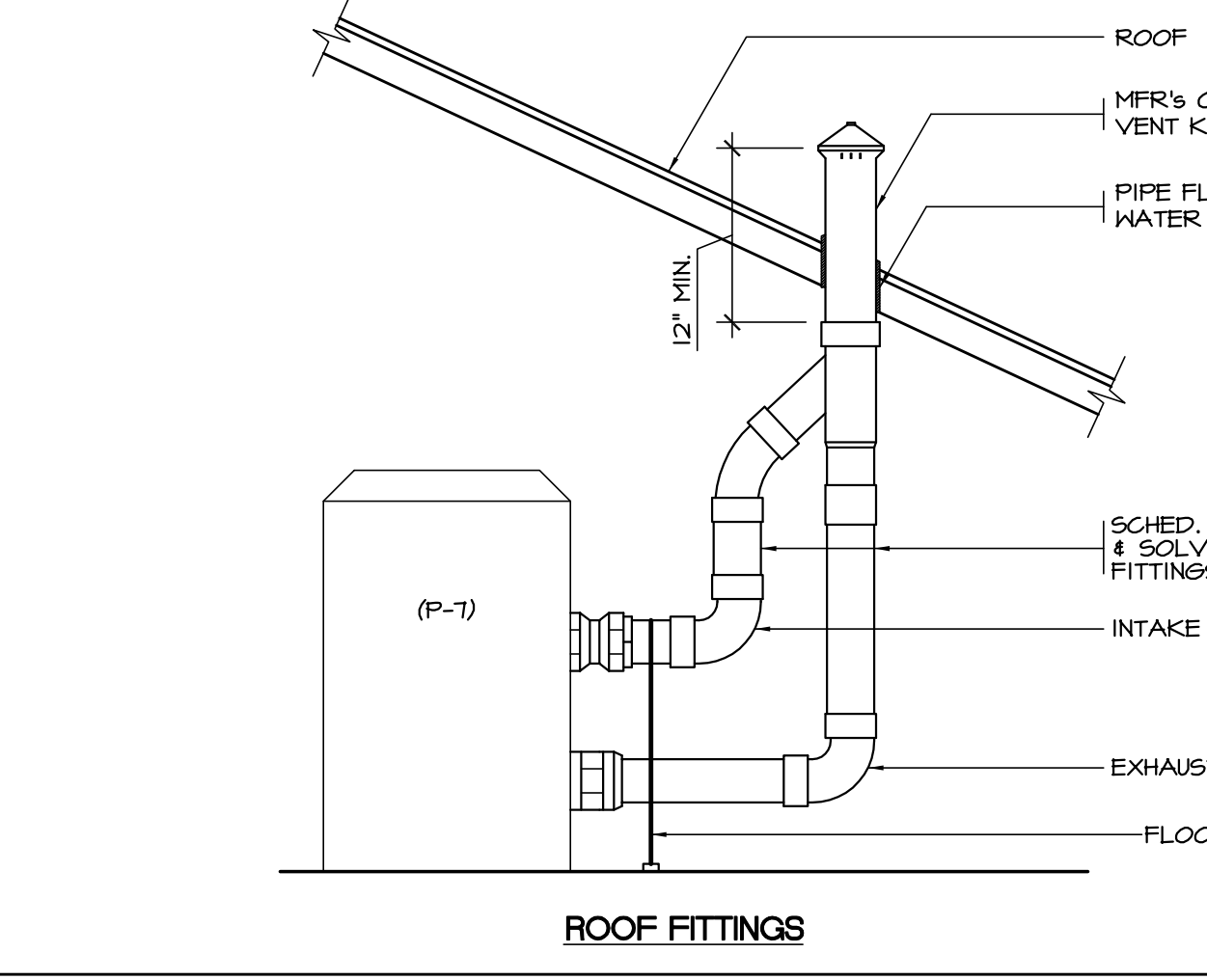
6 WARE WASHING BOOSTER HEATER SCALE: NTS 6



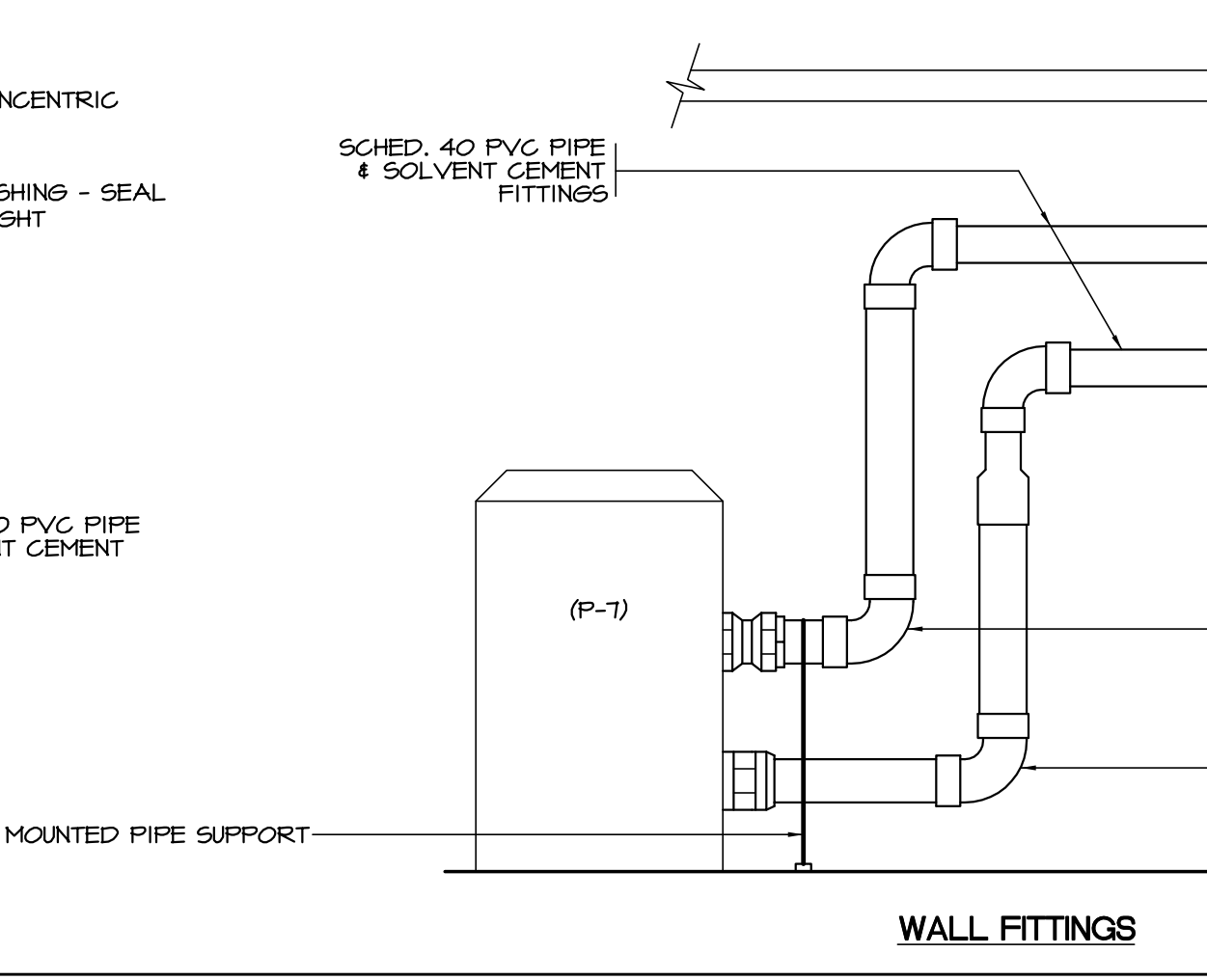
7 INDIRECT DRAIN DETAIL SCALE: NTS 7



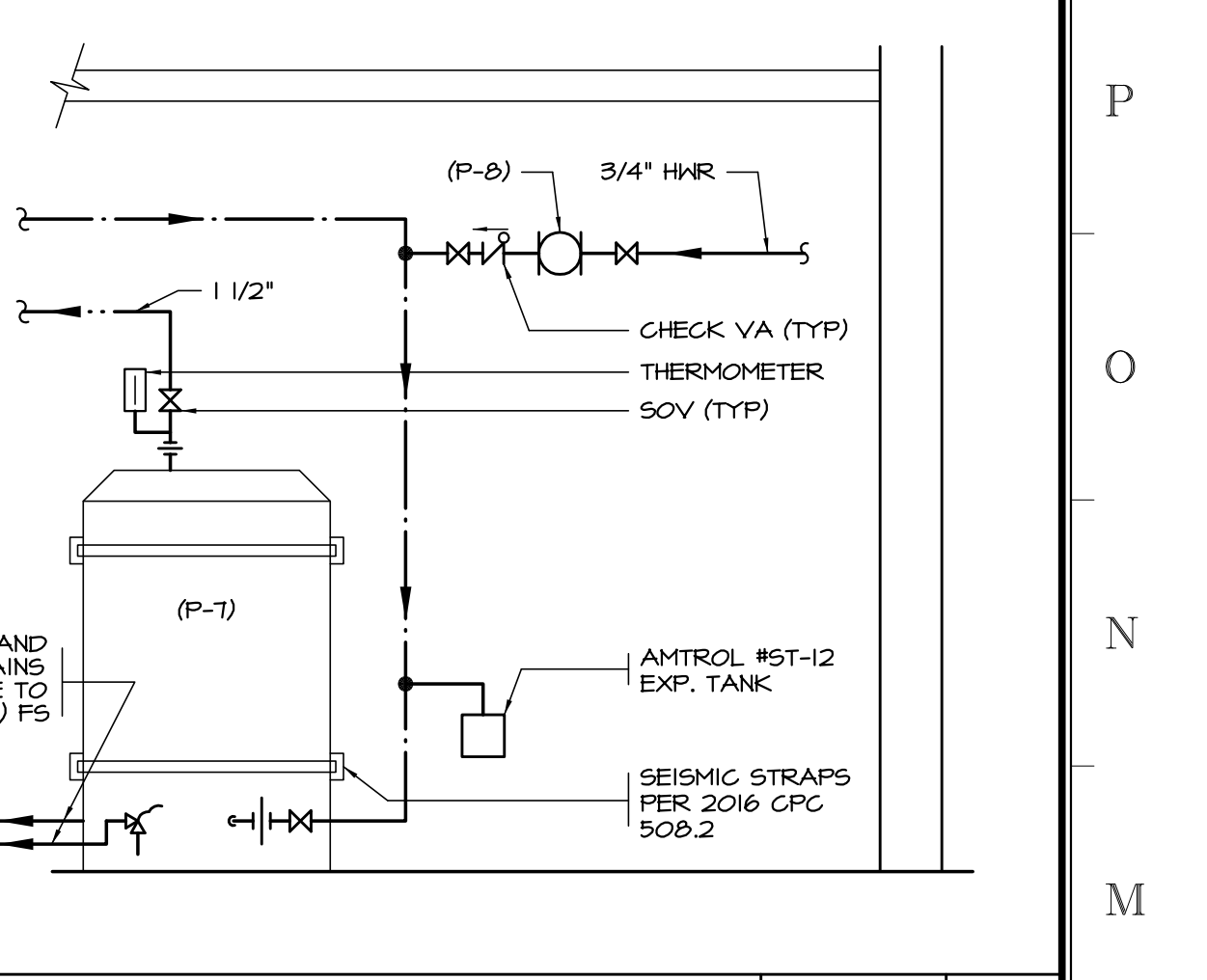
8 GAS RISER DETAIL SCALE: NTS 8



9 (P-7) CONCENTRIC VENT SCALE: NTS 9



10 (P-7) PIPING DIAGRAM SCALE: NTS 10



11 (P-8) PIPING DIAGRAM SCALE: NTS 11



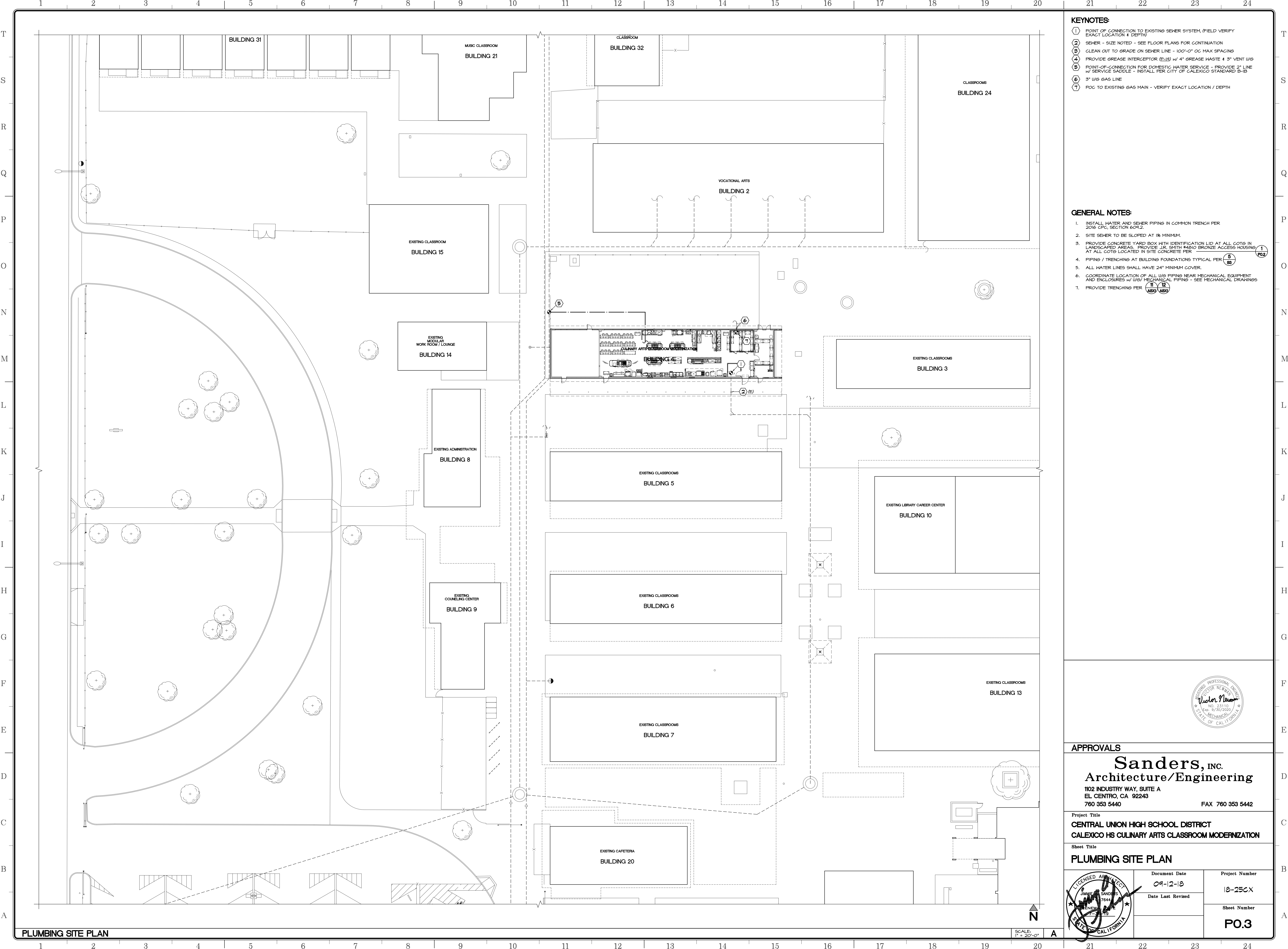
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Project Title
**CALEXICO UNION HIGH SCHOOL DISTRICT
 CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

PLUMBING DETAILS

	Document Date	Project Number
	09-12-18	18-25CX
	Date Last Revised	Sheet Number
		P.O.2



- KEYNOTES:**
- ① POINT-OF-CONNECTION TO EXISTING SEWER SYSTEM, (FIELD VERIFY EXACT LOCATION & DEPTH)
 - ② SEWER - SIZE NOTED - SEE FLOOR PLANS FOR CONTINUATION
 - ③ CLEAN OUT TO GRADE ON SEWER LINE - 100'-0" OC MAX SPACING
 - ④ PROVIDE GREASE INTERCEPTOR (E-14) w/ 4" GREASE WASTE & 3" VENT w/6
 - ⑤ POINT-OF-CONNECTION FOR DOMESTIC WATER SERVICE - PROVIDE 2" LINE w/ SERVICE SADDLE - INSTALL PER CITY OF CALEXICO STANDARD B-1B
 - ⑥ 3" w/6 GAS LINE
 - ⑦ POC TO EXISTING GAS MAIN - VERIFY EXACT LOCATION / DEPTH

- GENERAL NOTES:**
1. INSTALL WATER AND SEWER PIPING IN COMMON TRENCH PER 2016 CFC, SECTION 604.2.
 2. SITE SEWER TO BE SLOPED AT 1% MINIMUM.
 3. PROVIDE CONCRETE YARD BOX WITH IDENTIFICATION LID AT ALL COTG IN LANDSCAPED AREAS. PROVIDE 3/8" SMITH #420 BRONZE ACCESS HOUSING AT ALL COTG LOCATED IN SITE CONCRETE PER ¹ _{POS}
 4. PIPING / TRENCHING AT BUILDING FOUNDATIONS TYPICAL PER ⁵ _{SS}
 5. ALL WATER LINES SHALL HAVE 24" MINIMUM COVER.
 6. COORDINATE LOCATION OF ALL w/6 PIPING NEAR MECHANICAL EQUIPMENT AND ENCLOSURES w/ w/6 MECHANICAL PIPING - SEE MECHANICAL DRAWINGS
 7. PROVIDE TRENCHING PER ¹¹ _{ABX} ¹² _{ABX}



APPROVALS

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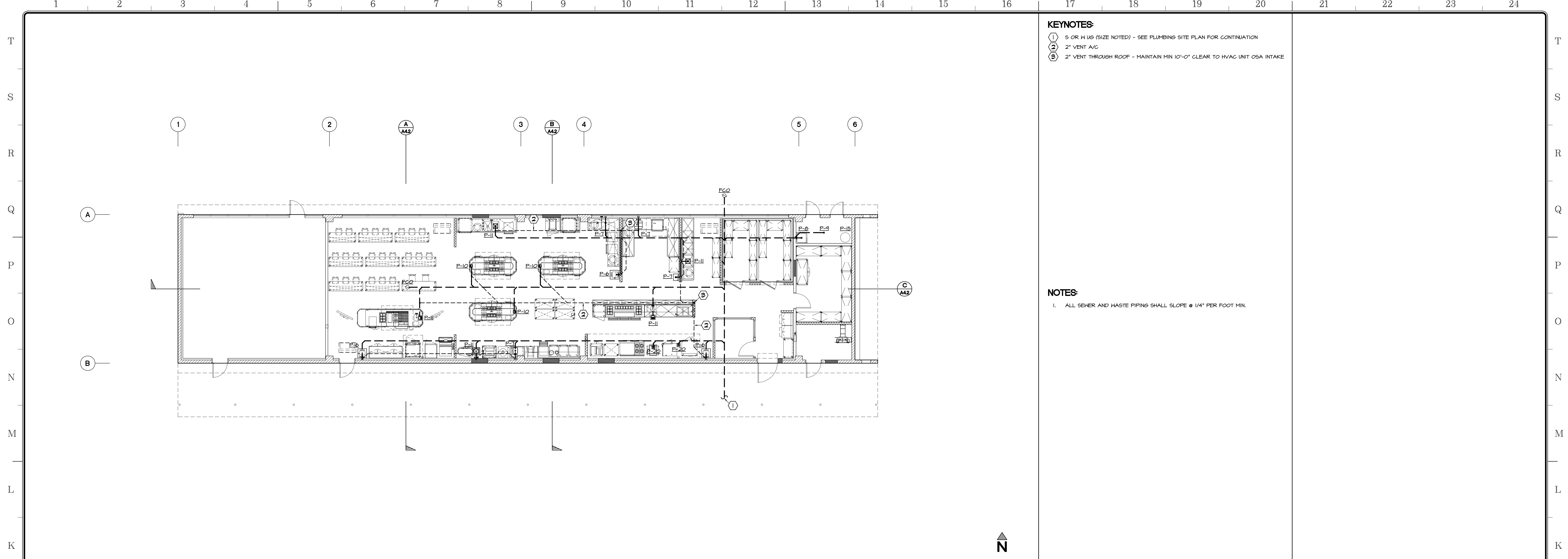
Project Title
**CENTRAL UNION HIGH SCHOOL DISTRICT
 CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
PLUMBING SITE PLAN

	Document Date 09-12-18	Project Number 18-25CX
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PLUMBING SITE PLAN

SCALE: 1" = 20'-0" A



KEYNOTES:

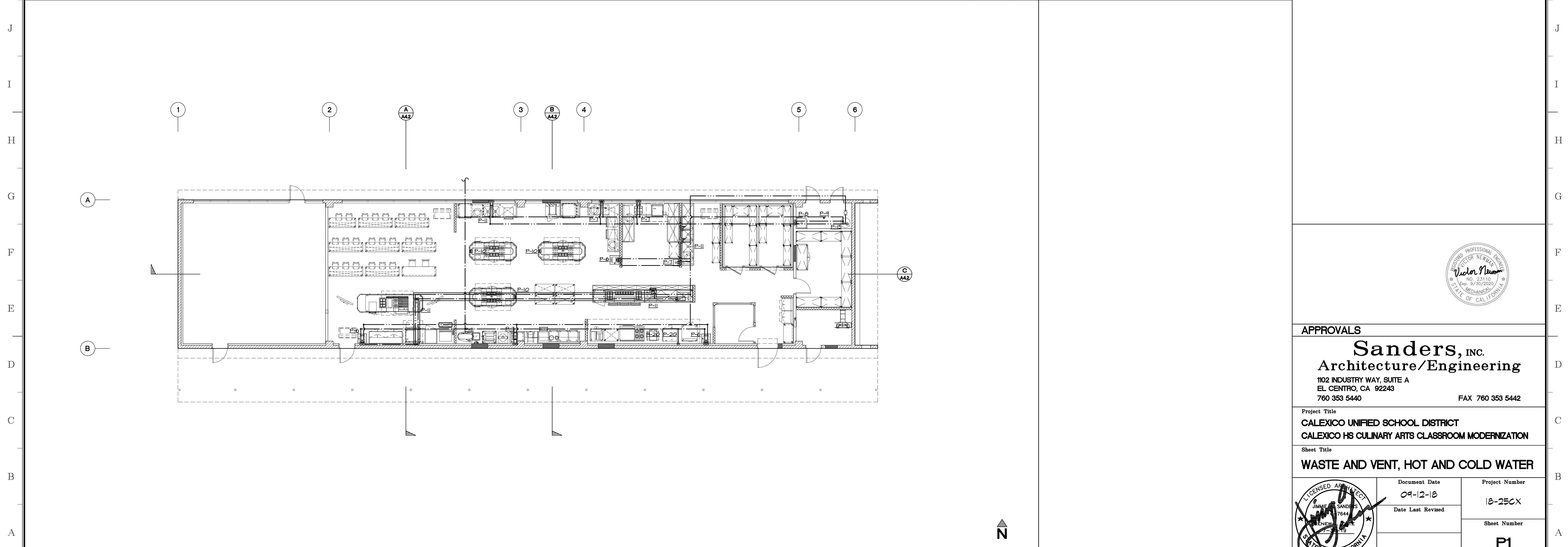
- ① 5 OR 1/4 US (SIZE NOTED) - SEE PLUMBING SITE PLAN FOR CONTINUATION
- ② 2" VENT A/C
- ③ 2" VENT THROUGH ROOF - MAINTAIN MIN 10'-0" CLEAR TO HVAC UNIT OSA INTAKE

NOTES:

- 1. ALL SEWER AND WASTE PIPING SHALL SLOPE @ 1/4" PER FOOT MIN.

WASTE AND VENT

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



HOT AND COLD WATER

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



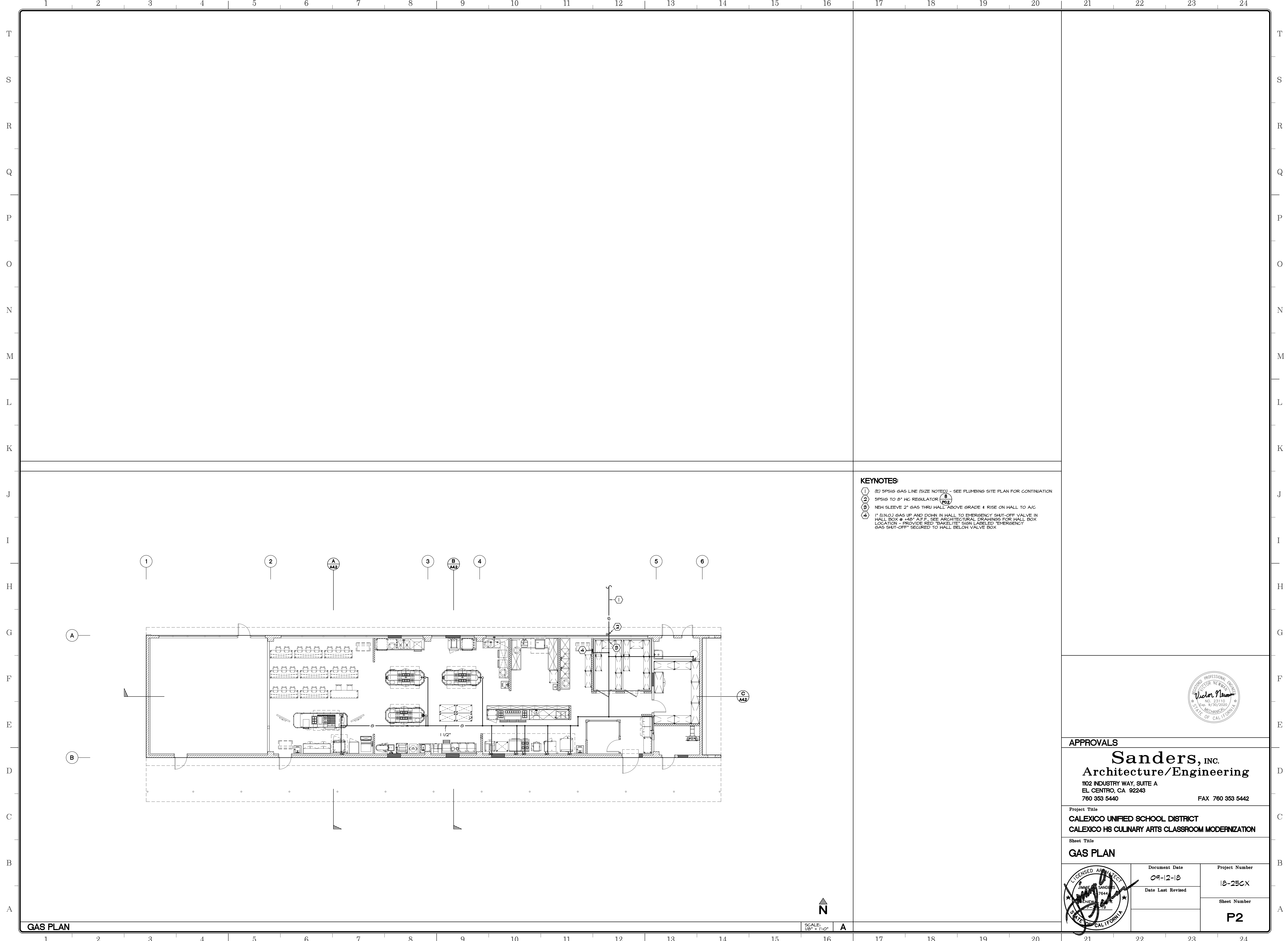
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Project Title
**CALEXICO UNIFIED SCHOOL DISTRICT
 CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
WASTE AND VENT, HOT AND COLD WATER

	Document Date 09-12-18	Project Number 18-25CX
	Date Last Revised	Sheet Number P1



KEYNOTES:

- ① (E) 5PSIG GAS LINE (SIZE NOTED) - SEE PLUMBING SITE PLAN FOR CONTINUATION
- ② 5PSIG TO 8" HG REGULATOR
- ③ NEW SLEEVE 2" GAS THRU WALL ABOVE GRADE & RISE ON HALL TO A/C
- ④ 1" (M.N.) GAS UP AND DOWN IN HALL TO EMERGENCY SHUT-OFF VALVE IN WALL BOX @ +48" A.F.F. - SEE ARCHITECTURAL DRAWINGS FOR WALL BOX LOCATION - PROVIDE RED "BARELITE" SIGN LABELED "EMERGENCY GAS SHUT-OFF" SECURED TO WALL BELOW VALVE BOX.



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**CALEXICO UNIFIED SCHOOL DISTRICT
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GAS PLAN

	Document Date 09-12-18	Project Number 18-25CX
	Date Last Revised	Sheet Number P2

KITCHEN EXHAUST FAN - UPBLAST

MARK	LOCATION	SERVES	FAN MOTOR HP	FAN MOTOR WATTS	CFM	EXT ST (IN W G)	RPM	SONES	ELECTRICAL V/PH/HZ	OPER WEIGHT (LBS)	MANUFACTURER / MODEL NO (GREENNECK)	NOTES
KEP 1	ROOF	KITCHEN (GREASE)	0.25	N/A	560	0.75	1,216	10.1	208-3-60	107	CUBE-10HP-4	1, 4, 6
KEP 2	ROOF	KITCHEN (GREASE)	1.5	N/A	2,120	1.25	1,304	16.1	208-3-60	175	CUBE-180HP-VSD-15	1, 4, 6
KEP 3	ROOF	KITCHEN (GREASE)	1.5	N/A	3,060	1.0	1,074	15.5	208-3-60	177	CUBE-200HP-VSD-15	1, 4, 6
KEP 4	ROOF	KITCHEN (GREASE)	1.5	N/A	3,060	1.0	1,074	15.5	208-3-60	177	CUBE-200HP-VSD-15	1, 4, 6
KEP 5	ROOF	KITCHEN (GREASE)	1.5	N/A	3,060	1.0	1,074	15.5	208-3-60	177	CUBE-200HP-VSD-15	1, 4, 6
KEP 6	ROOF	KITCHEN (GREASE)	1.5	N/A	2,323	1.25	1,526	15.7	208-3-60	205	CUBE-240XP-VSD-15	1, 4, 6
KEP 7	ROOF	KITCHEN (GREASE)	1.5	N/A	2,323	1.25	1,526	15.7	208-3-60	205	CUBE-240XP-VSD-15	1, 4, 6
KEP 8	ROOF	KITCHEN (VAPOR)	0.25	N/A	475	0.5	1,300	11.2	120-1-60	60	CUBE08B-4	1, 2, 5

EXHAUST FAN NOTES:

- V.F.D.
- PROVIDE MANUFACTURER'S SOUND ABSORBING ROOF CURB.
- PROVIDE MANUFACTURER'S VENTED CURB EXTENSION.
- JUNCTION BOX MOUNTED & WIRED DISC. SWITCH PROVIDED BY MFR.
- CONTROL WITH WALL SWITCH (BY ELEC CONTRACTOR).
- ROUTE GREASE DRAIN TO NEAREST KITCHEN FLOOR SINK.

CONTROL NOTES:

CONTROL FOR KEF'S IN HOOD VENT PANEL (BY HOOD MFR) AS FOLLOWS:

- A. KEF-142 W/MUA-1
- B. KEF-3445 W/MUA-2
- C. KEF-647 W/MUA-3

MAKE-UP AIR UNIT - HORIZONTAL DISCHARGE

MARK	MANUFACTURER / MODEL NO (GREENNECK)	NOM TONS	CFM	EXTERNAL S P (IN W G)	MIN CKT AMPS	ELECTRICAL			EVAP COOLING	GAS INPUT (MBH)	OPER WEIGHT (LBS) (NET)	NOTES
						MOCP	V/PH/HZ	FAN BHP				
MUA 1	#MSX-115-H22	N/A	3,290	0.5	10.2	15	208/3/60	1.5	115/7/4" O.A.T. 71.87/74" L.A.T.	N/A	1,000	1-4
MUA 2	#MSX-125-H2	N/A	4,180	0.5	24.3	40	208/3/60	5.0	115/7/4" O.A.T. 71.87/74" L.A.T.	N/A	1,740	1-4
MUA 3	#MSX-115-H22	N/A	4,646	0.5	22.8	35	208/3/60	5.0	115/7/4" O.A.T. 78.47/74" L.A.T.	N/A	1,150	1-4

MAKE-UP AIR UNIT NOTES:

- V.F.D., EVAPORATIVE COOLING MODULE, COOLING MODULE INLET AIR SENSOR.
- FILTER RACK FOR 2" 30/30 FILTERS, 100% OA, AIRFLOW SWITCH, MICRO-MTL OR CANFAB CURB @ EXTERIOR GRADE CONCRETE SLAB
- PROVIDE S.A. DUCT DETECTOR.
- ELECTRICALLY INTERLOCK MUA-1 W/HP-2 S.A. FAN AND MUA-3 W/HP-3 S.A. FAN

CONTROL NOTES:

CONTROL FOR KEF'S & MUAs IN HOOD VENT PANEL (BY HOOD MFR) AS FOLLOWS:

- A. MUA-1 W/KEP-142
- B. MUA-2 W/KEP-3445
- C. MUA-3 W/KEP-647

PACKAGE HP UNIT - HORIZONTAL DISCHARGE

MARK	MANUFACTURER / MODEL NO	NOM TONS	CFM	EXTERNAL S P (IN W G)	MIN CKT AMPS	ELECTRICAL			EVAP FAN BHP	COOLING (MBH)		(EER) SEER	HEAT CAP (MBH)	COP OR (HSPF)	OPER WEIGHT (LBS)	NOTES
						MOCP	V/PH/HZ	TOT		SENS						
HP 1	CARRIER #50HCQ-A04	4	1,600	0.6	23	30	208/3/60	0.71	42.5	34.9	15.8	46.1	(8.1)	750	1-5, 9	
HP 2	CARRIER #50HCQ-A05	4	1,600	0.6	23	30	208/3/60	0.71	42.5	34.9	15.8	46.1	(8.1)	750	1-5, 8, 9	
HP 3	CARRIER #50HCQ-D0T	6	2,400	0.6	36	50	208/3/60	1.05	65.9	59.3	15.8 (EER)	68.9	8.4	850	1-5, 7-4	

PACKAGE HP UNIT NOTES:

- PROVIDE "STERIL-AIRE" UV-C LAMP (NO SUBSTITUTIONS).
- PROVIDE CARRIER 33 CONNECTSTAT PROGRAMMABLE T-STAT W/ REMOTE SENSOR WHERE INDICATED.
- 2" MERV 8 T.A. FILTERS & S.A. DUCT SMOKE DETECTOR.
- MICRO-MTL SEISMIC LEVEL, MICRO-MTL OR CANFAB 12" HIGH SEISMIC CURB AT GRADE.
- LOH AMBIENT OPERATION.
- NOT USED
- 2-SPEED INDOOR S.A. FAN-MOTOR CONTROLLED BY V.F.D.
- MEDIUM STATIC OPTION BELT DRIVE.
- UNIT ANCHORAGE TO CONCRETE SLAB @ EXTERIOR GRADE PER 10 M02

SCHEDULES

HVAC LEGEND

ABBR.	SYMBOL	DESCRIPTION
A/C		ABOVE CEILING
U.T.R.		UP THROUGH ROOF
S.A.		SUPPLY DUCT, SECTION
R.A.		RETURN DUCT, SECTION
E.A.		EXHAUST DUCT, SECTION
		FLEXIBLE DUCT
S.A./R.A.		SINGLE LINE DUCT WORK
M.V.D.		MANUAL VOLUME DAMPER
C.D.		CEILING DIFFUSER - SUPPLY
R.A.S.		RETURN AIR GRILLE - CEILING
E.G. E.R.		EXHAUST REGISTER - CEILING
F.C.		FLEX CONNECTION
D.L.		DOOR/LOUWER
U.G.		UNDER-CUT DOOR
STAT		THERMOSTAT - SEE I/MO.3
C.D.		CONDENSATE DRAIN (BY PLUMBING)
SENSOR		ROOM TEMPERATURE SENSOR
F.S.D.		FIRE/ SMOKE DAMPER
M.O.D.		MOTOR OPERATED DAMPER
HWS/R		HEATING HOT WATER SUPPLY/RETURN
CWS/R		CHILLED WATER SUPPLY/RETURN
U.O.N.		UNLESS OTHERWISE NOTED
		FIRE RATED WALL - SEE ARCH

DESIGN CRITERIA:

MEP COMPONENT ANCHORAGE NOTE:

- ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE OR DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.10 THROUGH 1616A.1.26 AND ASCE T-10 CHAPTER 13, 26 & 30.
 - A. ALL PERMANENT EQUIPMENT AND COMPONENTS.
 - B. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HAND WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
 - C. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND 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 ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.
- THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.
 - A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
 - B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A HALL.
- FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DIRECTOR STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

- PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BRACE TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE T-10 SECTION 13.3 AS DEFINED IN ASCE T-10 SECTION 13.6.5.6, 13.6.7, 13.6.8 AND 2016 CBC, SECTIONS 1604.2.4, 1604.2.5 AND 1604.2.6.
- THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G. SHACMA OR OSHPD OPM), 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 SYSTEM (ES).
 - MP MD PP ES - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
 - MP MD PP ES - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #_0002.
 - MP MD PP ES - OPTION 3: SHALL COMPLY WITH THE SHACMA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2004), INCLUDING ANY ADDENDA, FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SHACMA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL AND CONNECTION LEVEL FOR THE PROJECT AND CONDITIONS.

ENERGY CONSERVATION NOTES:

- ALL PIPING AND DUCTWORK SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF SECTIONS 118, 123, 124 E.E.S. AND TABLE 6-4 OF THE C.M.C.
- ALL HVAC SYSTEMS SHALL MEET THE CONTROL REQUIREMENTS PER SECTION 112 & 122 E.E.S.
- ALL HVAC EQUIPMENT AND APPLIANCES SHALL MEET THE REQUIREMENTS OF SECTION 111-113, 115, 120-124 E.E.S.

GENERAL HVAC NOTES:

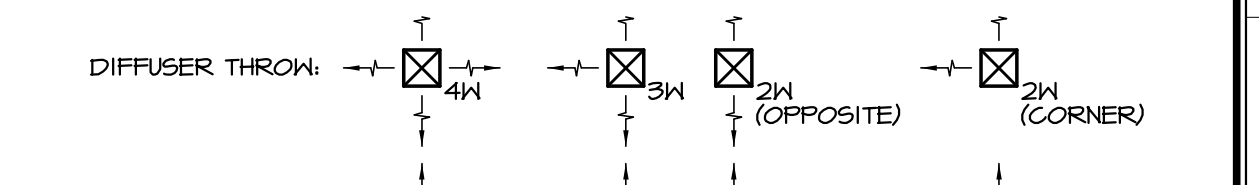
- THESE DRAWINGS ARE A DIAGRAMMATIC REPRESENTATION OF WORK TO BE ACCOMPLISHED AND AS SUCH ARE NOT INTENDED TO SHOW ALL REQUIRED OFFSETS OF PIPING AND DUCT WORK. THE MECHANICAL CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT SO AS TO CONFORM TO THE STRUCTURE, AVOID OBSTRUCTIONS AND MAINTAIN HEADROOM AND PASSAGEWAYS.
- EQUIPMENT INDICATED ON THESE DRAWINGS IS SHOWN IN APPROXIMATE LOCATIONS. THE MECHANICAL CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND EQUIPMENT LOCATIONS.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES PRIOR TO INSTALLATION.
- ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING TITLE 24 CCR.
- ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LINE AND LOW VOLTAGE CONDUIT, LINE VOLTAGE WIRING, OVERLOAD PROTECTION, DISCONNECTS (EXCEPT ROOF EXHAUST FANS AS NOTED), STARTERS, FINAL CONNECTIONS TO EQUIPMENT. LOW VOLTAGE WIRING BY MECHANICAL CONTRACTOR.
- GENERAL CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, FURRING, BRACING OF STRUCTURE, ROOF OPENINGS WITH CANTS, FLASHING, ROOFING.
- MECHANICAL CONTRACTOR TO FURNISH AND INSTALL FIRE AND SMOKE DAMPERS AT ALL DUCT PENETRATIONS OF FIRE RATED SURFACES. FIRE DAMPERS INCLUDING SLEEVES AND INSTALLATION PROCEDURES SHALL BE APPROVED BY D.S.A. PRIOR TO INSTALLATION.
- AIR FILTERS SHALL BE A STATE FIRE MARSHAL APPROVED 4 LISTED TYPE. PRE FORMED FILTERS HAVING A COMPOSITE FRAMING SHALL BE TESTED AS A COMPLETE ASSEMBLY. AIR FILTERS IN ALL OCCUPANCIES SHALL BE CLASS 2 OR BETTER (AS SHOWN THE STATE FIRE MARSHAL LISTINGS). AIR FILTERS SHALL BE ACCESSIBLE FOR CLEANING OR REPLACEMENT.
- FLAME SPREAD / SMOKE RATINGS FOR ALL DUCT MATERIALS SHALL BE 25/50 MAX.

AIR DISTRIBUTION SCHEDULE:

ALL ITEMS SHALL BE TITUS MODEL #5 UNLESS OTHERWISE NOTED OR EQUIVALENT BY KRUEGER. ALL METAL CONSTRUCTION WITH STANDARD FINISH.

MARKS:

- A #MCD 4-HAY ADJUSTABLE, LAY-IN CEILING DIFFUSER
- B #FGS 24" x 24" LAY-IN, PERFORATED FACE, STEEL CEILING DIFFUSER W/ LINED SHEET METAL TOP FLENUM WHERE SHOWN
- C #PAR STEEL SURFACE MOUNTED PERFORATED FACE CEILING RETURN/RELIEF GRILLE (W LINED SHEET METAL TOP FLENUM WHERE SHOWN)



EQUIPMENT SCHEDULE NOTES:

- BOTTOM OF ALL EQUIPMENT ROOF CURBS SHALL MATCH SLOPE OF ROOF, TYP.
- "UV-C" GERMICIDAL LAMPS SHALL BE FACTORY INSTALLED AND WIRED. LAMPS SHALL BE "STERIL-AIRE" (NO SUBSTITUTIONS).
- ALL FC UNITS AND SINGLE SPACES OVER 2000 CFM SHALL BE PROVIDED WITH DUCT SMOKE DETECTORS. SEE FIRE ALARM DRAWINGS.



APPROVALS

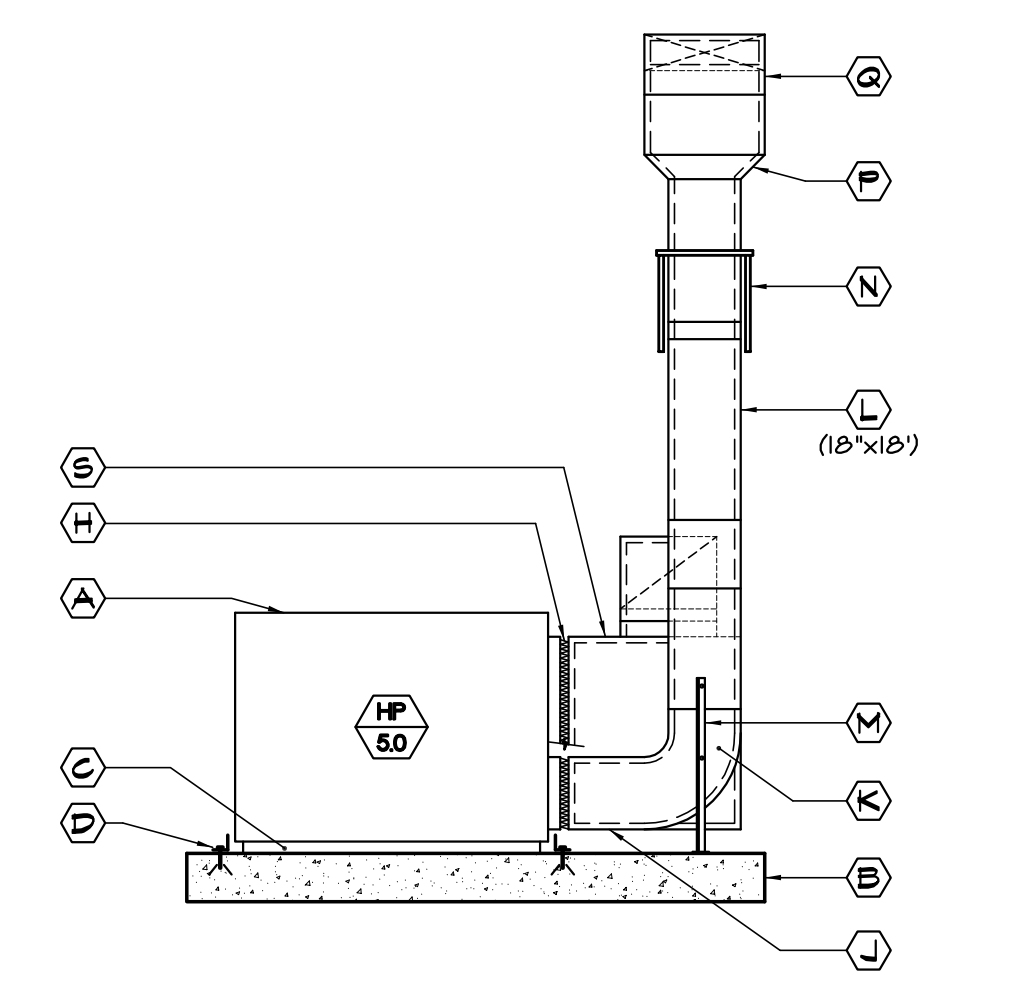
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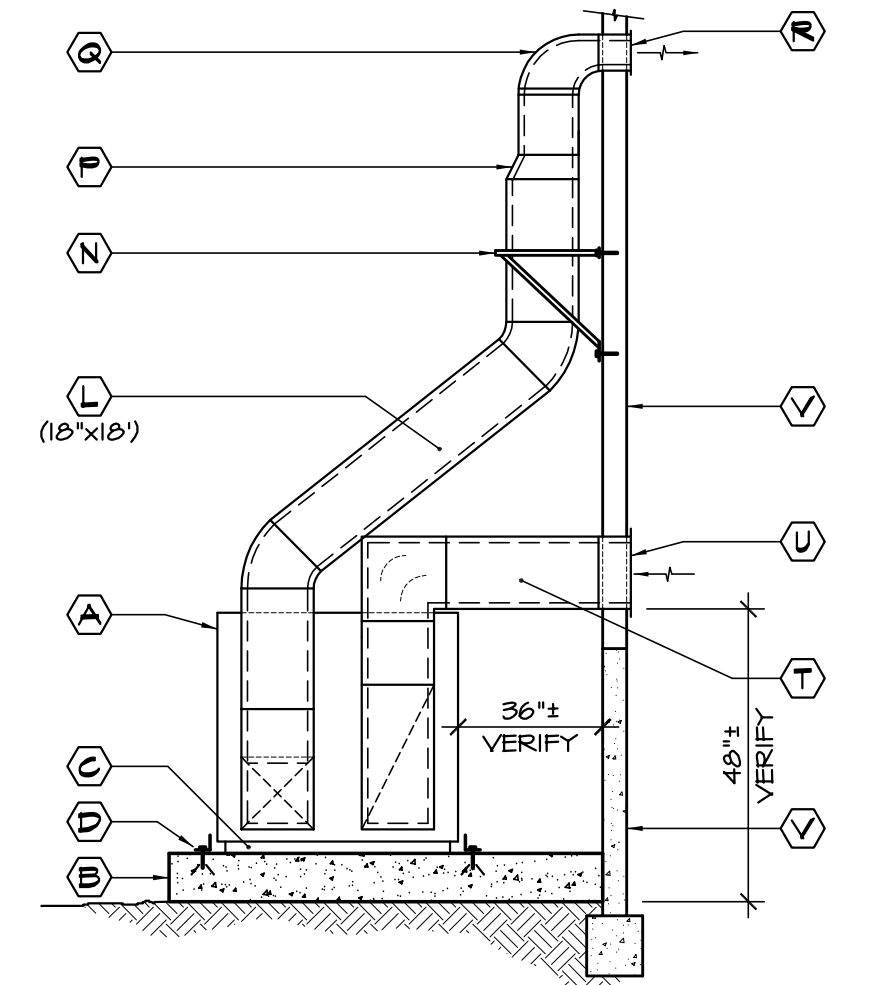
Sheet Title
HVAC GENERAL NOTES, SCHEDULES

	Document Date	Project Number
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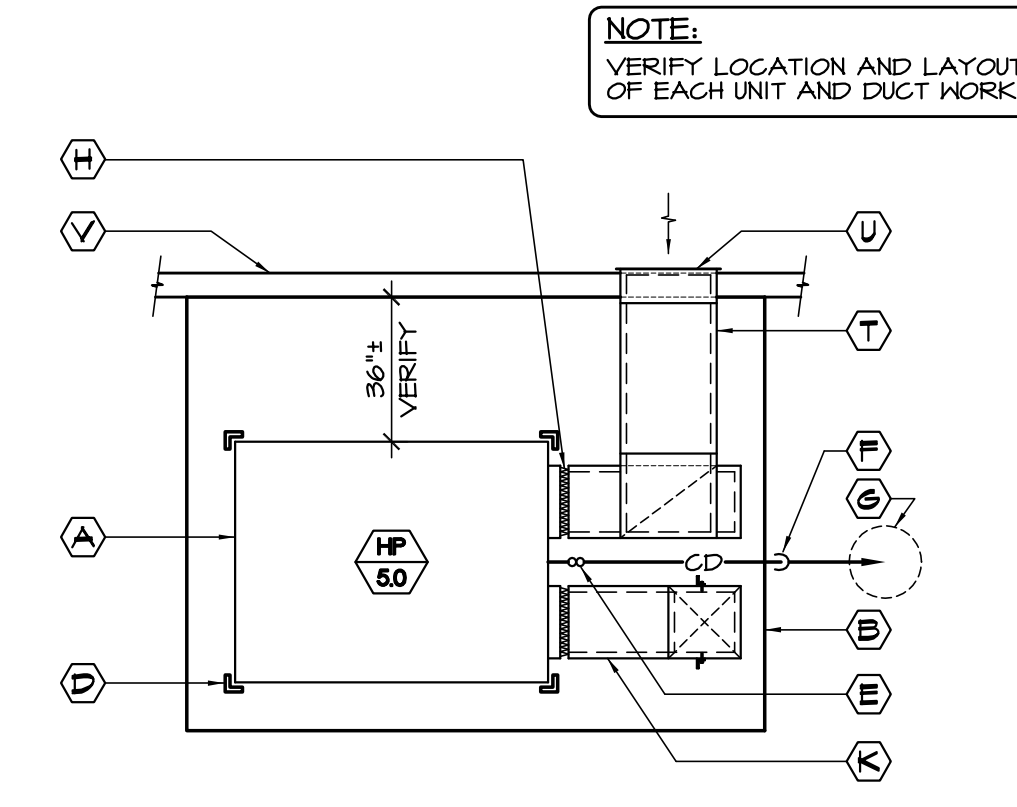
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FRONT ELEVATION



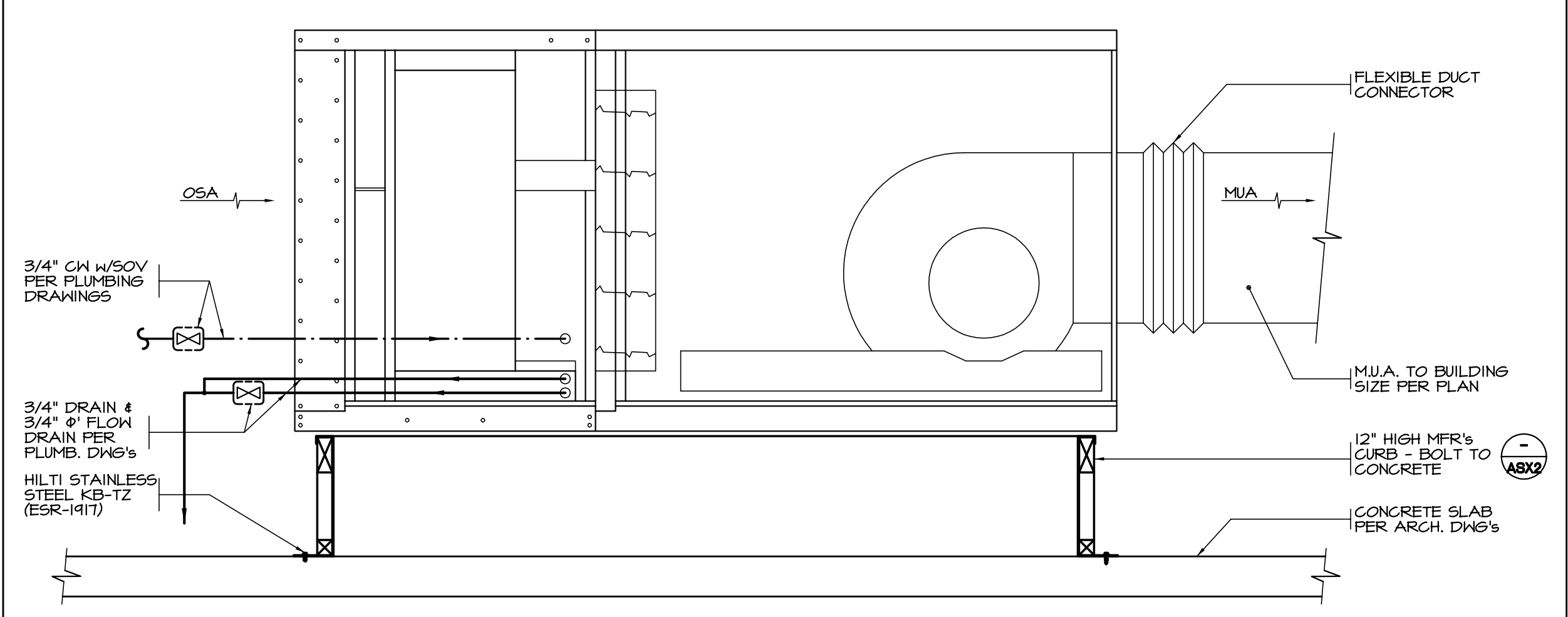
ELEVATION - DISCHARGE END



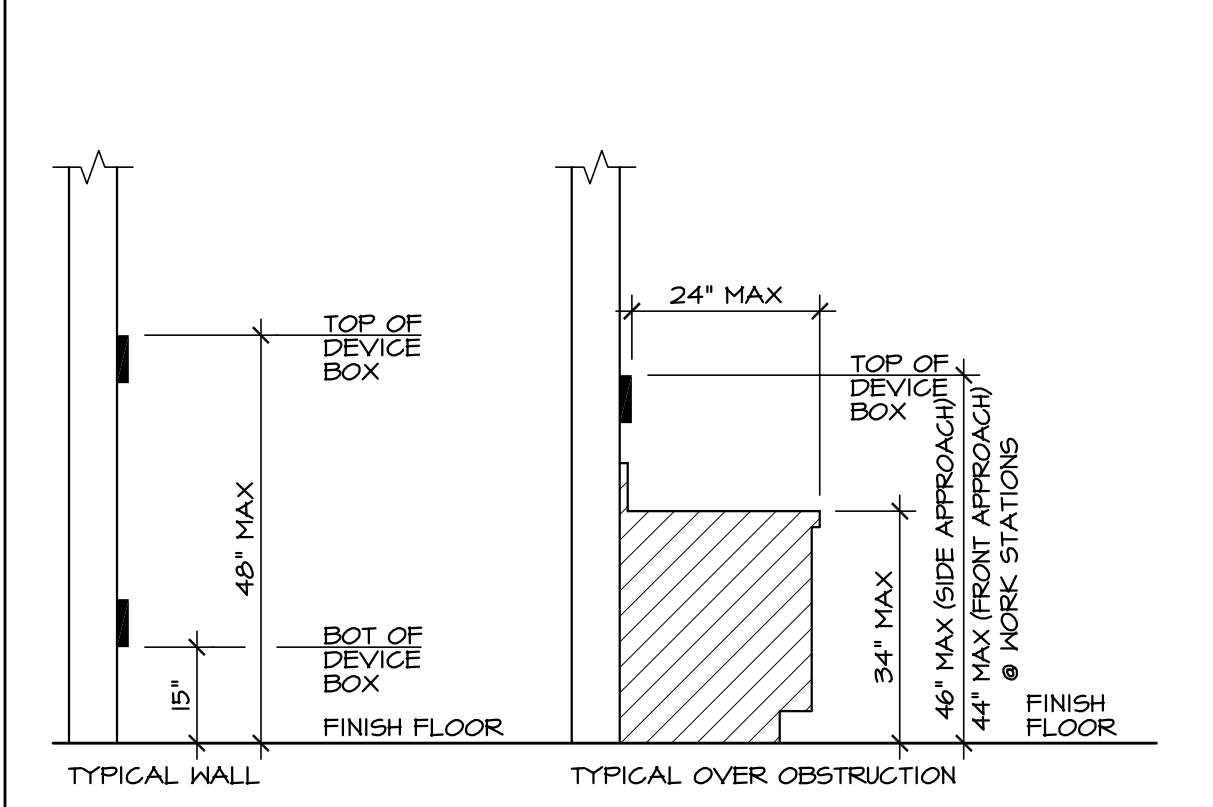
PLAN VIEW

NOTE:
VERIFY LOCATION AND LAYOUT
OF EACH UNIT AND DUCT WORK

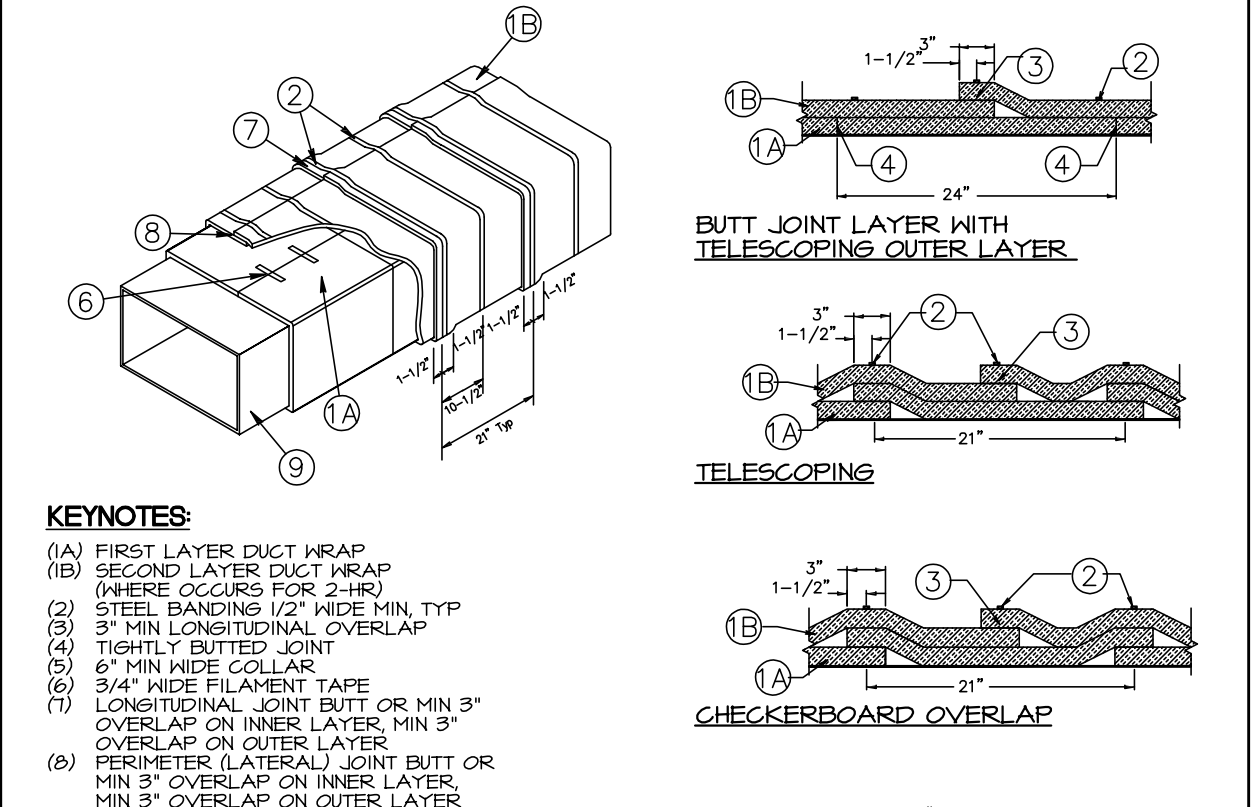
- KEYNOTES:**
- (A) NEH HEAT PUMP UNIT - 5.0 TONS U.O.N.
 - (B) CONCRETE EQUIPMENT PAD BY GENERAL CONTRACTOR, SLOPE AWAY FROM BUILDING FOR DRAINAGE
 - (C) SET UNIT RAILS ON WAFFLE PAD (6 MIN)
 - (D) L2x2x1/4" ANGLE SEISMIC SNUBBERS, BOLT TO CONCRETE SLAB WITH HILTI STAINLESS STEEL KB-TZ (ESR-1917)
 - (E) 3/4" TRAPPED AND VENTED C.D. CONNECTION TO UNIT (BY PLUMBING)
 - (F) DISCHARGE 3/4" C.D. DOWN TO DRY WELL (BY PLUMBING)
 - (G) FLEXIBLE CONNECTOR - TYP. @ S.A. & R.A.
 - (H) UNIT S.A. DUCT SIZE APPROXIMATELY 17" x 11"
 - (I) RADIUS TRANSITION ELBOW, 11" x 11" TO 18" x 18"
 - (J) LINED DUCT - SIZE NOTED
 - (K) SHEET METAL ANGLE DUCT SUPPORT WITH FOOT PLATE, NO HEIGHT ON FLEX CONNECTOR (TYP. 2)
 - (L) DUCT SUPPORT PER S.M.A.C.N.A. MANUAL DETAIL FIG. 4-7, VIEW B, LAG TO EXISTING HALL
 - (M) TRANSITION TO S.A. GRILLE SIZE
 - (N) RADIUS ELBOW
 - (O) NEH S.A. GRILLE (MARK '1') SIZE TO MATCH EXISTING
 - (P) LINED R.A. FLENUM, FULL SIZE OF UNIT CONNECTION
 - (Q) LINED R.A. DUCT
 - (R) NEH R.A. GRILLE (MARK 'N') SIZE TO MATCH EXISTING
 - (S) EXISTING WALL



DETAIL AT M.U.A. UNIT (SIM.)

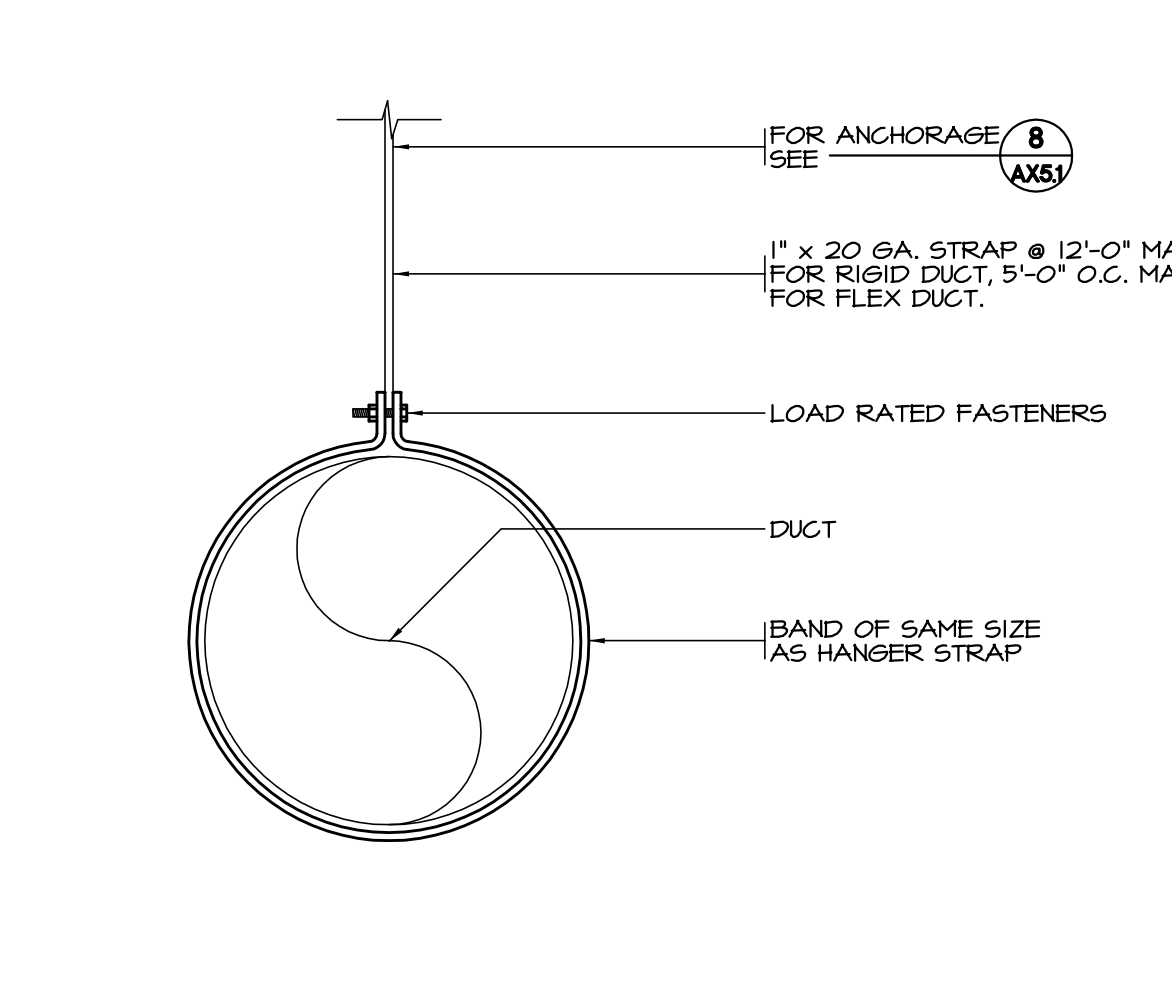


TYPICAL MOUNTING HEIGHTS

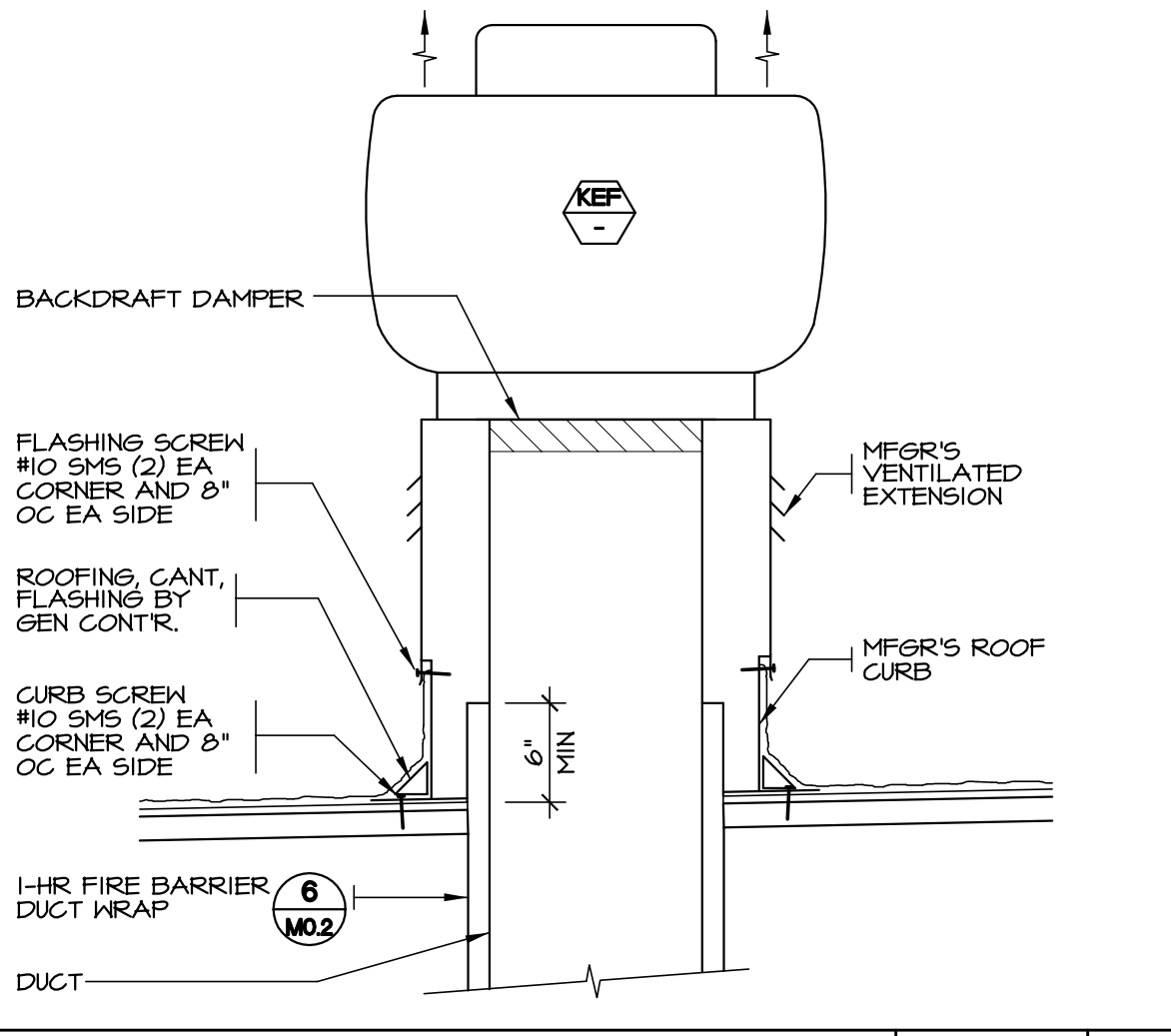


GREASE DUCT

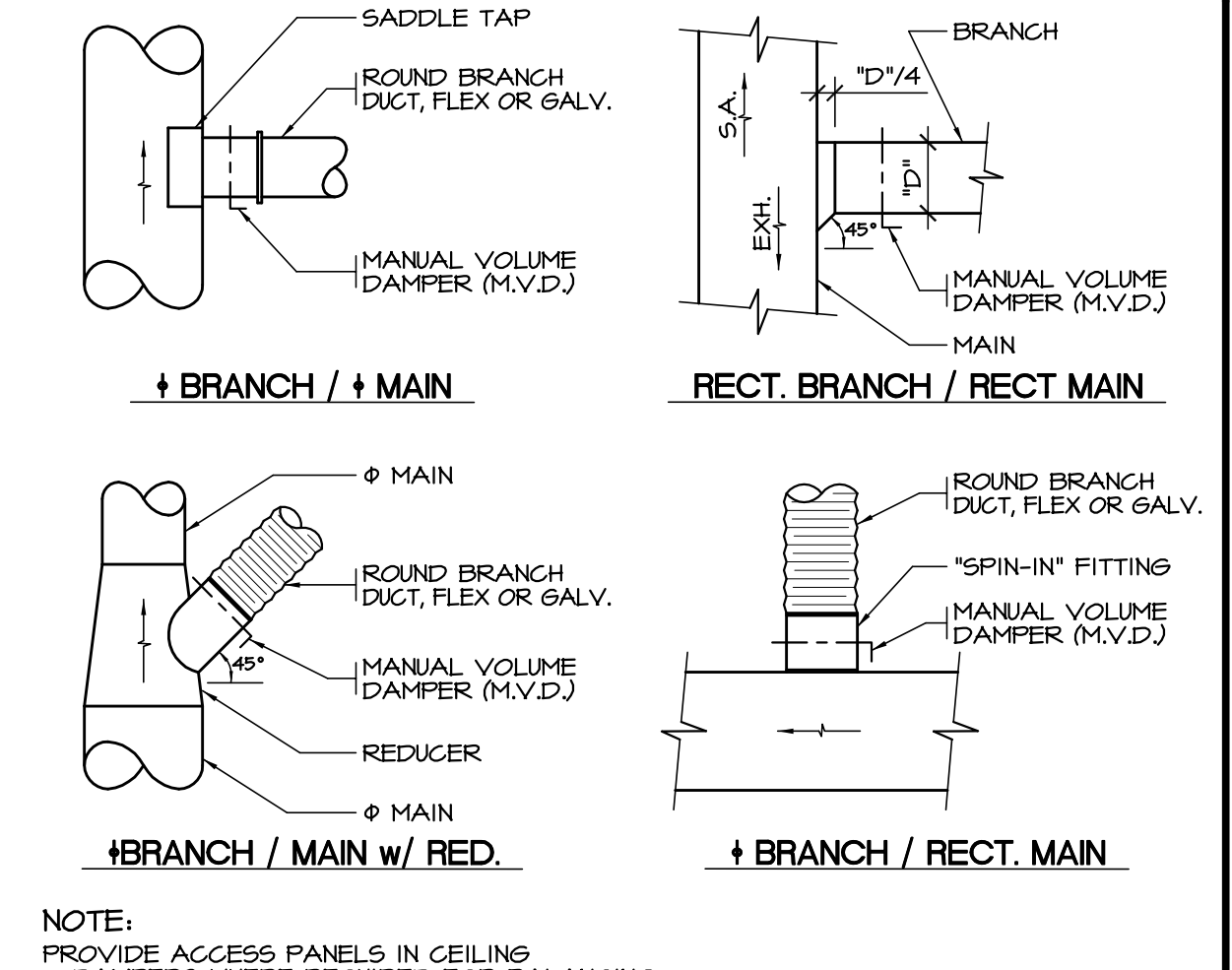
- KEYNOTES:**
- (1) FIRST LAYER DUCT WRAP
 - (2) SECOND LAYER DUCT WRAP (WHERE OCCURS FOR 2-HR)
 - (3) STEEL BANDING (2" WIDE MIN. TYP)
 - (4) 3" MIN. LONGITUDINAL OVERLAP
 - (5) TIGHTLY BUTTED JOINT
 - (6) 3" MIN. LONGITUDINAL OVERLAP
 - (7) S.A. FIBER FILAMENT FABRIC LONGITUDINAL JOINT BUTT OR MIN. 3" OVERLAP ON OUTER LAYER
 - (8) OVERLAP ON OUTER LAYER
 - (9) OVERLAP ON INNER LAYER
 - (10) MIN. 3" OVERLAP ON OUTER LAYER
 - (11) METALLIC COMMERCIAL COOKING EXHAUST DUCT
- NOTES:**
1. SYSTEM SHALL BE 2-HR FIRE BARRIER DUCT HEAVY 205 COMMERCIAL KITCHEN GREASE DUCT SYSTEM (ESR-1225, CGFM 2440-0941-112).
 2. 1-HR OR 2-HR ZERO CLEARANCE TO COMBUSTIBLES FOR DUCTS 24" OR LESS.



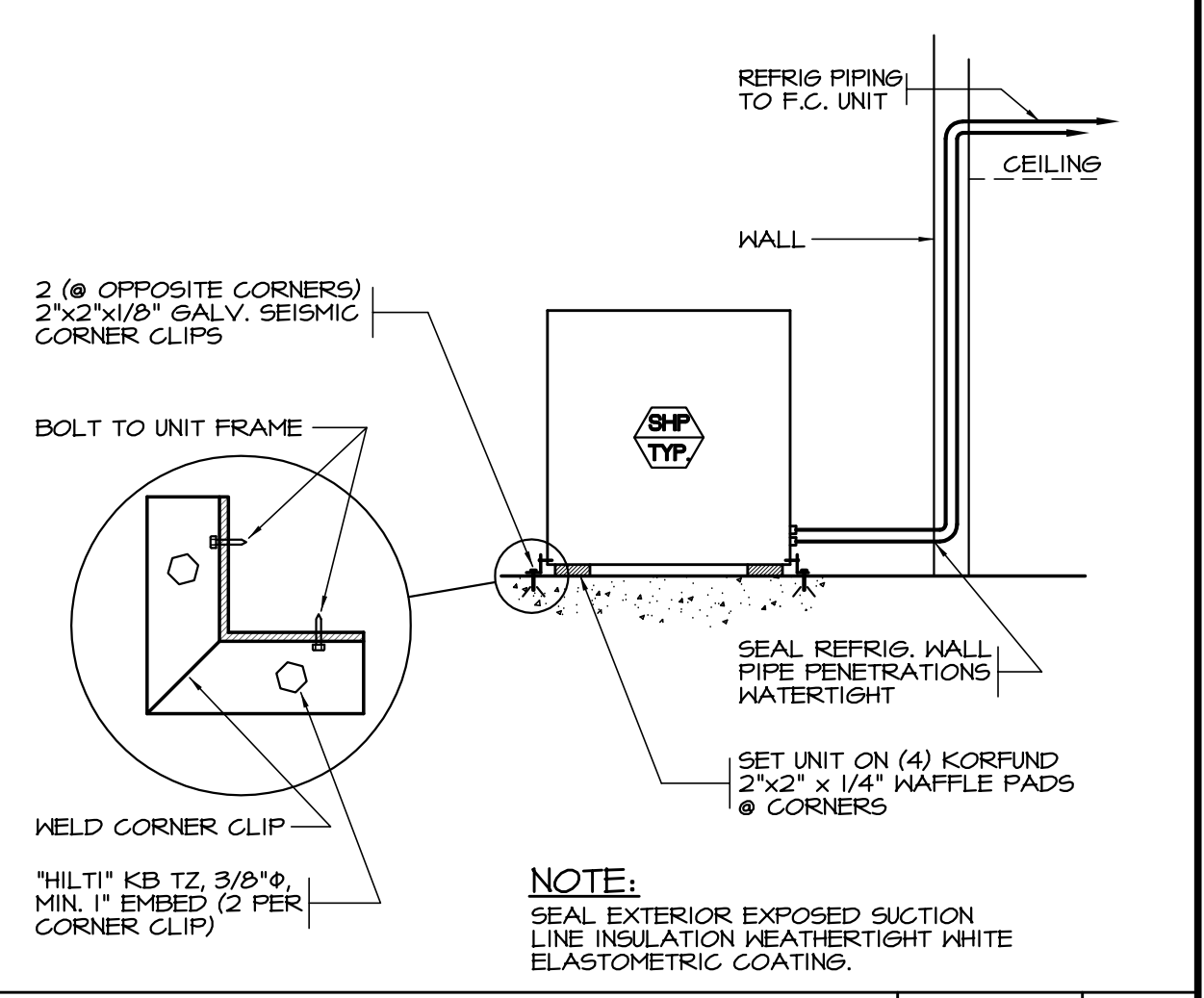
DUCT HANGER



VENTED ROOF EXHAUSTER DETAIL



TYPICAL DUCT DETAILS



S.H.P. UNIT DETAIL

A/C UNIT ON GROUND (SIDE DISCHARGE)

SCALE: N.T.S. 1

SCALE: N.T.S. 5

SCALE: N.T.S. 6

SCALE: N.T.S. 7

SCALE: N.T.S. 8



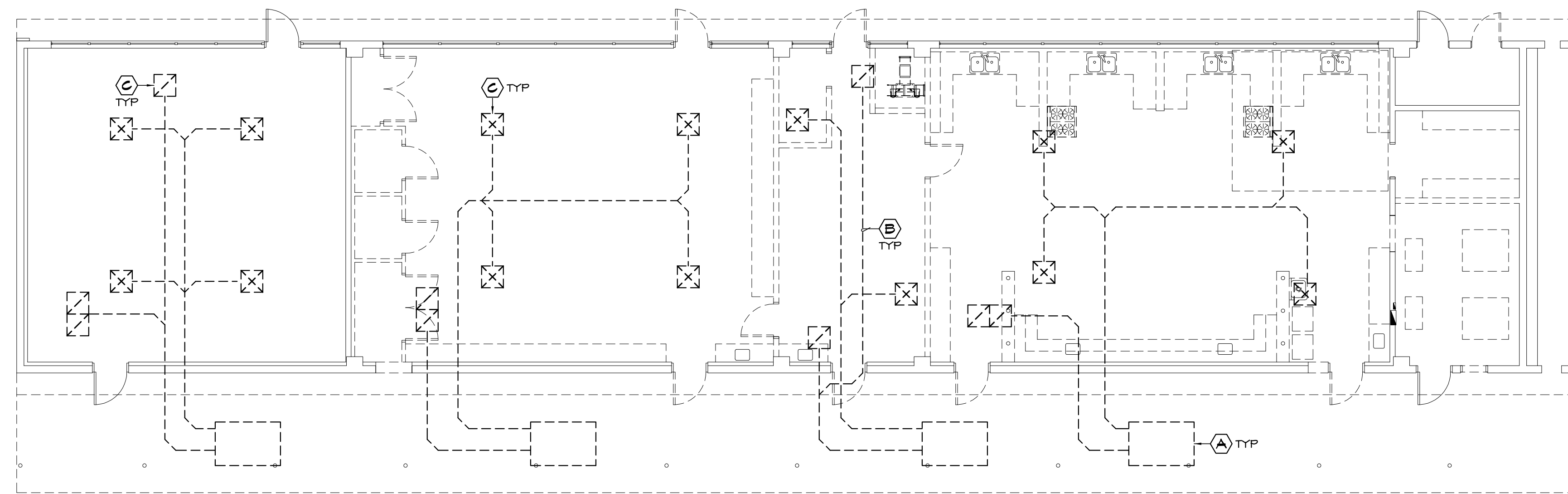
APPROVALS

Sanders, INC.
Architecture/Engineering
1102 INDUSTRY WAY, SUITE A
EL CENTRO, CA 92243
760 353 5440 FAX 760 353 5442

Project Title
**CALEXICO UNIFIED SCHOOL DISTRICT
CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
HVAC DETAILS

	Document Date 09-12-18	Project Number 18-25CX
	Date Last Revised	Sheet Number MO.2



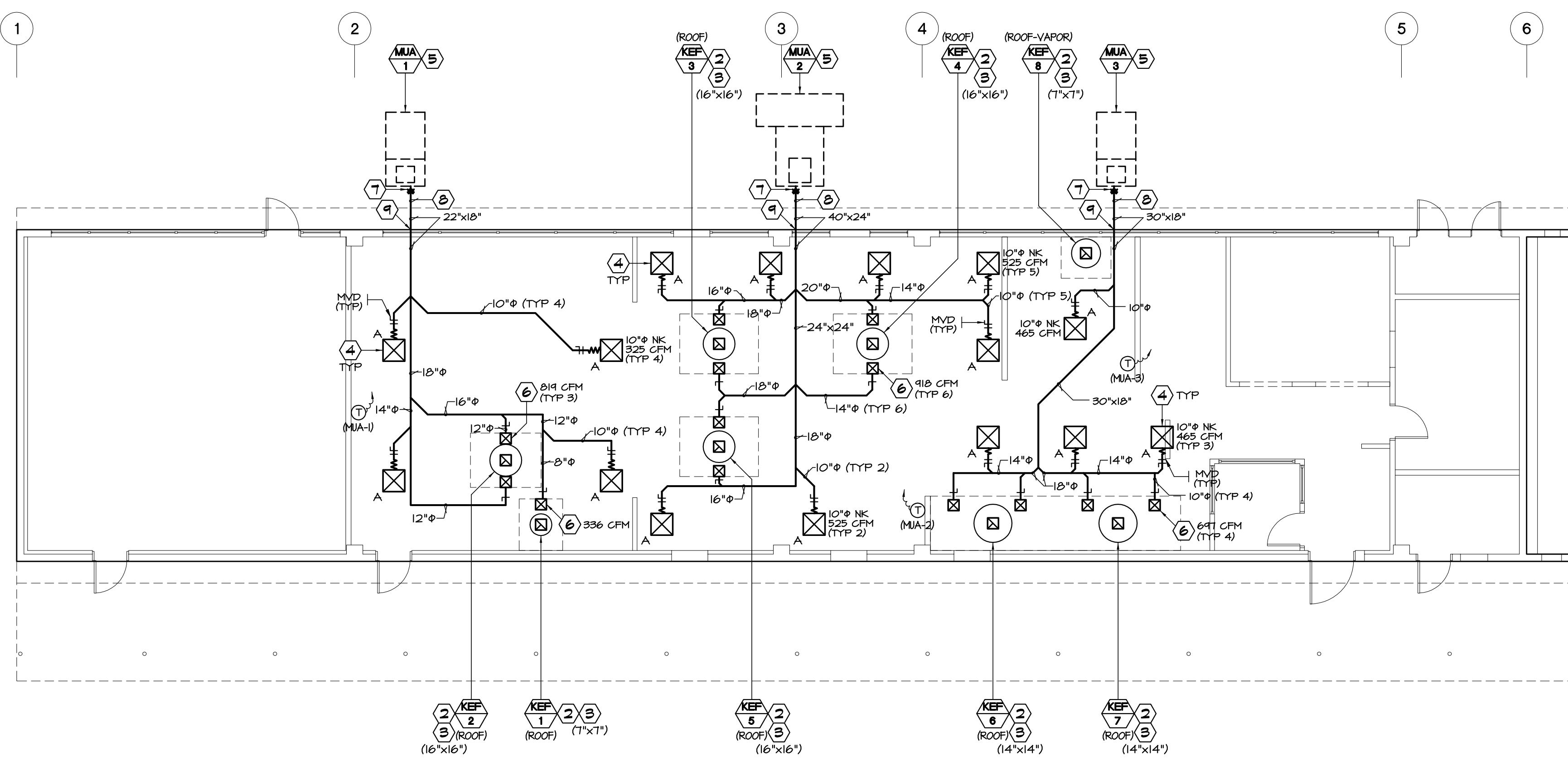
DEMOLITION KEYNOTES:

- (A) REMOVE EXISTING HVAC UNIT ON ROOF
- (B) REMOVE EXISTING HOOD EXHAUST AND MAKE-UP AIR DUCTS
- (C) REMOVE AND REPLACE EXISTING RETURN AIR GRILLE / EXHAUST GRILLE



HVAC PLAN DEMOLITION

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



KEYNOTES:

- (1) GREASE HOOD EXHAUST AIR DUCTS UTR (M02)
- (2) GREASE HOOD (OR VAPOR HOOD) EXHAUST FAN ON ROOF
- (3) CONNECT TO GREASE HOOD (OR VAPOR HOOD) EXHAUST OUTLET (SIZE PER FOOD SERVICE KITCHEN DRAWINGS). ROUTE EXHAUST DUCT UTR TO KEF TRANSITION TO SIZE NOTED IN RISER
- (4) CEILING DIFFUSER - SEE AIR DISTRIBUTION SCHEDULE & DETAILS
- (5) MIA UNIT @ GRADE, MFR'S ROOF CURBS BOLTED TO CONCRETE SLAB, SET CURB ON MASTIC SEALANT (M02)
- (6) CONNECT TO HOOD MIA DUCT CONNECTION - CFM SHOWN
- (7) FLEXIBLE DUCT CONNECTOR @ UNIT DISCHARGE
- (8) EXTERIOR DUCT TO BE LINED 1" (SIZE SHOWN IS NET, ADD FOR LINER)
- (9) DUCT PENETRATION OF EXTERIOR WALL TO BE FLASHED, COUNTERFLASHED & SEALED WATER-TIGHT W/ NON-HARDENING SEALANT

NOTES:

- 1. SEE SHEET (M02) FOR TYPICAL DUCT DETAILS.
- 2. SEE SHEET (M01) FOR HANGER AND BRACING NOTES.
- 3. UNIT LOCATIONS ARE APPROXIMATE SEE ARCHITECTURAL SHEET (B/A)
- 4. PROVIDE SMOKE DETECTOR(S) WIRED TO SHUT DOWN A.C. UNIT INDOOR AIR FANS UPON DETECTION - TYPICAL ON ALL UNITS.
- 5. SEE FOOD SERVICE DRAWINGS FOR GREASE & VAPOR HOOD DETAILS, MAINTAIN HOOD MFR CLEARANCES TO CEILING DIFFUSERS



HVAC PLAN - KITCHEN EXHAUST FANS / MAKE-UP AIR UNITS

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



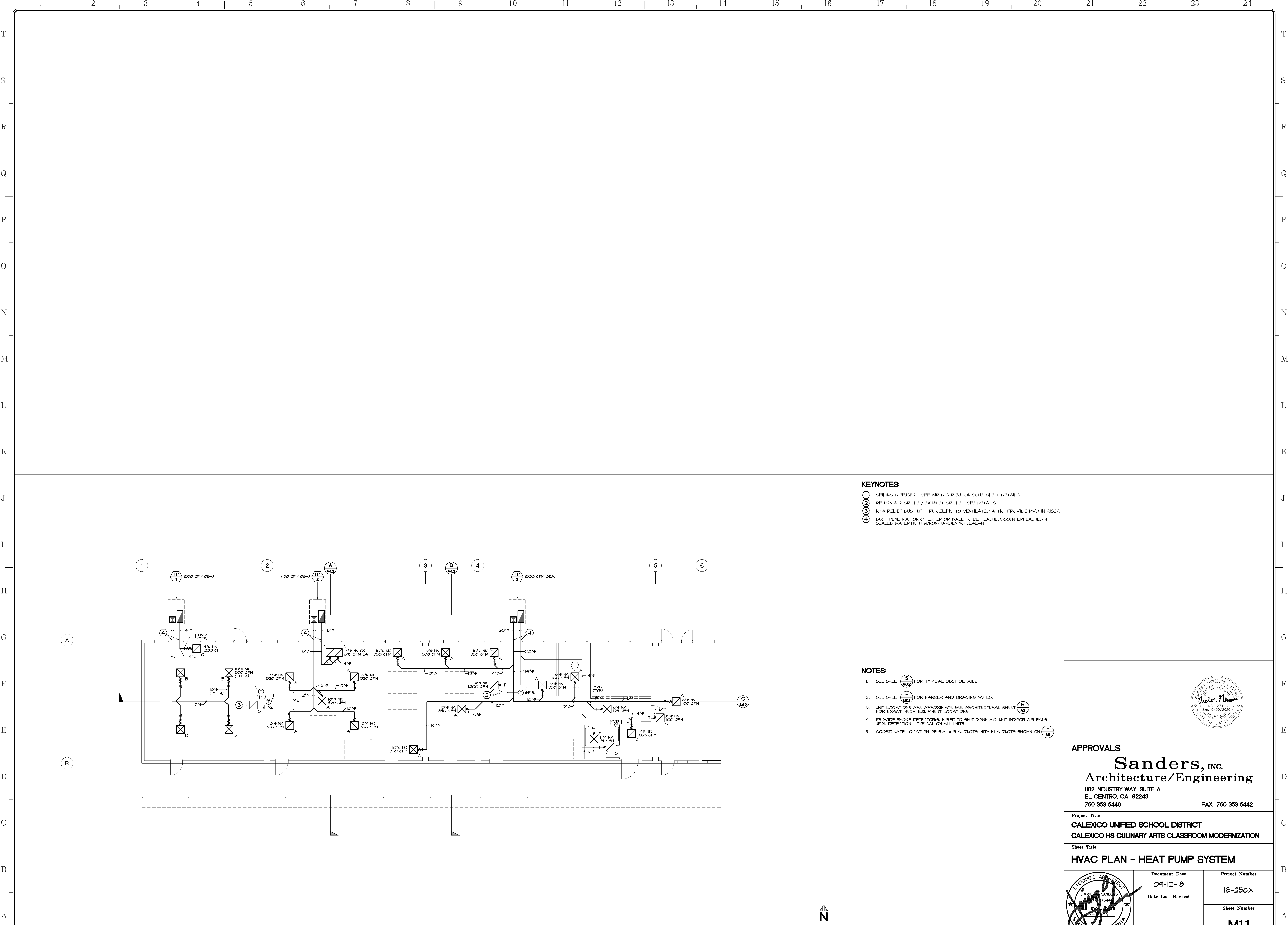
APPROVALS

Sanders, INC.
Architecture/Engineering
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 760 353 5440 FAX 760 353 5442

Project Title
**CALEXICO UNIFIED SCHOOL DISTRICT
 CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
HVAC PLAN - EXHAUST FANS / MAKE-UP AIR

	Document Date 09-12-18	Project Number 18-25CX
	Date Last Revised	Sheet Number M1



KEYNOTES:

- ① CEILING DIFFUSER - SEE AIR DISTRIBUTION SCHEDULE & DETAILS
- ② RETURN AIR GRILLE / EXHAUST GRILLE - SEE DETAILS
- ③ 10" RELIEF DUCT UP THRU CEILINGS TO VENTILATED ATTIC. PROVIDE MVD IN RISER
- ④ DUCT PENETRATION OF EXTERIOR WALL TO BE FLASHED, COUNTERFLASHED & SEALED WATERTIGHT W/ NON-HARDENING SEALANT

NOTES:

- 1. SEE SHEET (M02) FOR TYPICAL DUCT DETAILS.
- 2. SEE SHEET (M01) FOR HANGER AND BRACING NOTES.
- 3. UNIT LOCATIONS ARE APPROXIMATE SEE ARCHITECTURAL SHEET (B/A)
- 4. PROVIDE SMOKE DETECTOR(S) WIRED TO SHUT DOWN A.C. UNIT INDOOR AIR FANS UPON DETECTION - TYPICAL ON ALL UNITS.
- 5. COORDINATE LOCATION OF S.A. & R.A. DUCTS WITH MIA DUCTS SHOWN ON (M)

HVAC PLAN - HEAT PUMP SYSTEM

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



APPROVALS

Sanders, INC.
 Architecture/Engineering
 1102 INDUSTRY WAY, SUITE A
 EL CENTRO, CA 92243
 760 353 5440 FAX 760 353 5442

Project Title
**CALEXICO UNIFIED SCHOOL DISTRICT
 CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
HVAC PLAN - HEAT PUMP SYSTEM

	Document Date 09-12-18	Project Number 18-25CX
	Date Last Revised	Sheet Number M1.1

STATE OF CALIFORNIA MECHANICAL SYSTEMS CERTIFICATE OF COMPLIANCE. Project Name: Calexico HS CTE Mod. Date Issued: 11/28/2018. Section: A. MECHANICAL COMPLIANCE DOCUMENTS & WORKSHEETS. Includes compliance table for various equipment and systems.

STATE OF CALIFORNIA MECHANICAL SYSTEMS CERTIFICATE OF COMPLIANCE. Project Name: Calexico HS CTE Mod. Date Issued: 11/28/2018. Section: B. MECHANICAL HVAC ACCEPTANCE FORMS. Includes HVAC acceptance table for Carrier HP-1, HP-2, and HP-3 units.

STATE OF CALIFORNIA MECHANICAL SYSTEMS CERTIFICATE OF COMPLIANCE. Project Name: Calexico HS CTE Mod. Date Issued: 11/28/2018. Section: C. MECHANICAL HVAC ACCEPTANCE FORMS. Includes HVAC acceptance table for Carrier HP-1, HP-2, and HP-3 units.

STATE OF CALIFORNIA MECHANICAL SYSTEMS CERTIFICATE OF COMPLIANCE. Project Name: Calexico HS CTE Mod. Date Issued: 11/28/2018. Section: DOCUMENTATION AUTHOR'S DECLARATION STATEMENT. Includes project details and responsible person's declaration.

STATE OF CALIFORNIA MECHANICAL VENTILATION AND REHEAT CERTIFICATE OF COMPLIANCE. Project Name: Calexico HS CTE Mod. Date Issued: 11/28/2018. Section: A. Mechanical Ventilation and Reheat. Includes compliance table for MV and RH systems.

STATE OF CALIFORNIA MECHANICAL VENTILATION AND REHEAT CERTIFICATE OF COMPLIANCE. Project Name: Calexico HS CTE Mod. Date Issued: 11/28/2018. Section: DOCUMENTATION AUTHOR'S DECLARATION STATEMENT. Includes project details and responsible person's declaration.

STATE OF CALIFORNIA MECHANICAL SYSTEMS CERTIFICATE OF COMPLIANCE. Project Name: Calexico HS CTE Mod. Date Issued: 11/28/2018. Section: REQUIRED ACCEPTANCE TESTS. Includes compliance table for required acceptance tests.

STATE OF CALIFORNIA MECHANICAL SYSTEMS CERTIFICATE OF COMPLIANCE. Project Name: Calexico HS CTE Mod. Date Issued: 11/28/2018. Section: REQUIRED ACCEPTANCE TESTS. Includes compliance table for required acceptance tests.

STATE OF CALIFORNIA MECHANICAL SYSTEMS CERTIFICATE OF COMPLIANCE. Project Name: Calexico HS CTE Mod. Date Issued: 11/28/2018. Section: REQUIRED ACCEPTANCE TESTS. Includes compliance table for required acceptance tests.

STATE OF CALIFORNIA MECHANICAL SYSTEMS CERTIFICATE OF COMPLIANCE. Project Name: Calexico HS CTE Mod. Date Issued: 11/28/2018. Section: REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS. Includes compliance table for packaged single zone units.

STATE OF CALIFORNIA MECHANICAL SYSTEMS CERTIFICATE OF COMPLIANCE. Project Name: Calexico HS CTE Mod. Date Issued: 11/28/2018. Section: REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS. Includes compliance table for packaged single zone units.

STATE OF CALIFORNIA MECHANICAL SYSTEMS CERTIFICATE OF COMPLIANCE. Project Name: Calexico HS CTE Mod. Date Issued: 11/28/2018. Section: REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS. Includes compliance table for packaged single zone units.

DIVISION 15 CONSULTING SERVICES, INC. 11180 Turquoise Circle, Dewey, Arizona 85527. (928) 772-8448. FAX (928) 772-6942. Division15@coheona.net



APPROVALS Sanders, Inc. Architecture/Engineering. 1102 INDUSTRY WAY, SUITE A EL CENTRO, CA 92243. 760 353 5440. FAX 760 353 5442. Project Title: CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION. Sheet Title: ENERGY CALCULATIONS. Document Date: 11-26-18. Project Number: 18-25CX. Sheet Number: M2.1.

STATE OF CALIFORNIA
HVAC DRY & WET SYSTEM REQUIREMENTS
CERTIFICATE OF COMPLIANCE
Power Consumption of Fans Requirements
Project Name: Calexico HS CTE Mod
Date Issued: 11/28/2018

A. Equipment Tags and System Description - Dry Systems		HP-1	HP-2	HP-3						
MANDATORY MEASURES										
7-24 Sections Reference to the Requirements in the Contract Documents										
Heating Equipment Efficiency	110.1 or 110.2(a)									
Cooling Equipment Efficiency	110.1 or 110.2(a)									
HVAC or Heat Pump Thermostats	110.2(b), 110.2(c)									
Pump Standby Loss Control	110.2(d)									
Low Leakage CMUs	110.2(e)									
Ventilation	110.2(f)									
Demand Control Ventilation	110.2(g)									
Occupant Sensor Ventilation Control	120.1(c)(5), 120.2(e)(3)									
Shutoff and Reset Controls	120.2(f)									
Outdoor Air and Exhaust Damper Control	120.2(i)									
Isolation Zones	120.2(j)									
Automatic Demand Shed Controls	120.2(k)									
Economizer FDD	120.2(l)									
Duct Insulation	120.4									
Equipment is sized in performance with 140.4(a) & (b)					Y	Y/N	Y	Y/N	Y	Y/N
Supply Fan Pressure Control	140.4(i)									
Simultaneous Heat/Cool	140.4(j)									
Economizer	140.4(k)									
Heat and Cool Air Supply Reset	140.4(l)									
Electric Resistance Heating	140.4(m)									
Duct Leakage Sealing and Testing	140.4(n)									

Notes:
1. Provide equipment tags (e.g. AHU 1 to 10) and system description (e.g. Single Duct VAV reheat) as appropriate. Multiple units with common requirements can be grouped together.
2. Provide references to plans (i.e. Drawing Sheet Numbers) and/or specifications (including section name/number and relevant paragraphs) where each requirement is specified. Enter "N/A" if the requirement is not applicable to this system.
3. The reference plans and specifications must include all of the following information: equipment tag, equipment nominal capacity, take 24 minimum efficiency requirements, and actual rated equipment efficiencies. Where multiple efficiency requirements are applicable (e.g. full- and part-load) include all. Where appliance standards apply (110.1), identify where equipment is required to be listed per Title 20 (ALI) or tag.
4. Identify where the ventilation requirements are documented for each central HVAC system. Include references to both central unit schedules and ventilation of operation. If one or more spaces is naturally ventilated identify where this is documented in the plans and specifications. Multiple zone central air systems must also provide a MCH-03-E compliance document.
5. If one or more spaces has demand controlled ventilation identify where it is specified including the sensor specifications and the sequence of operation.
6. If one or more spaces has occupant sensor ventilation control identify where it is specified including the sensor specifications and the sequence of operation.
7. If the system is DDC, identify the sequences for the thermostat start/stop, optimal start, setback (if required) and setup (if required). For all systems identify the specification for the thermostats and time clocks (if applicable).
8. Identify where the heating, cooling and dehumidification are scheduled for this system, include a reference to the specification of the zone controls. Provide a MCH-03-E compliance document.
9. Enter N/A if there is no electric heating. If the system has electric heating indicate which exception to 140.4(j) applies.
10. If duct leakage sealing and testing is required, a MCH-04 compliance document must be submitted.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA
HVAC DRY & WET SYSTEM REQUIREMENTS
CERTIFICATE OF COMPLIANCE
Power Consumption of Fans Requirements
Project Name: Calexico HS CTE Mod
Date Issued: 11/28/2018

B. Equipment Tags and System Description - Wet Systems		Reference to the Requirements in the Contract Documents			
MANDATORY MEASURES					
7-24 Sections Reference to the Requirements in the Contract Documents					
Heating Hot Water Equipment Efficiency	110.1				
Cooling Chilled and Condenser Water Equipment Efficiency	110.1, 140.4(i)				
Open and Closed Circuit Cooling Towers	110.2(h) 1				
Open and Closed Circuit Cooling Towers	110.2(h) 2				
Maximum Achievable Cycle of Concentration (MACC)	110.2(h) 3				
Open and Closed Circuit Cooling Towers	110.2(h) 3				
Open and Closed Circuit Cooling Towers	110.2(h) 4				
Open and Closed Circuit Cooling Towers	110.2(h) 5				
Efficient Drift Eliminators	120.3				
Drift Eliminators	120.3				
PRESCRIPTIVE MEASURES					
Cooling Tower Fan Controls	140.4(n)(2), 140.4(n)(3)	Y/N		Y/N	Y/N
Cooling Tower Flow Controls	140.4(n)(3)				
Centrifugal Fan Cooling Towers	140.4(n)(4)				
Air-Cooled Chiller Limitation	140.4(n)(5)				
Variable Flow System Design	140.4(n)(6)				
Chiller and Boiler Isolation	140.4(n)(7)				
CWM and HWM Reset Controls	140.4(n)(8)				
WHP Isolation Valves	140.4(n)(9)				
VSD on CWM, CCR & WHP Pumps >5HP	140.4(n)(10)				
CP Sensor Location	140.4(n)(11)				

Notes:
1. Provide equipment tags (e.g. CH 1 to 3) or system description (e.g. CHW loop) as appropriate. Multiple units with common requirements can be grouped together.
2. Provide references to plans (i.e. Drawing Sheet Numbers) and/or specifications (including section name/number and relevant paragraphs) where each requirement is specified. Enter "N/A" if the requirement is not applicable to this system.
3. The reference plans and specifications must include all of the following information: equipment tag, equipment nominal capacity, Title 24 minimum efficiency requirements, and actual rated equipment efficiencies. Where multiple efficiency requirements are applicable (e.g. full- and part-load) include all. For chillers operating at non-standard efficiencies provide the field values. For chillers also note whether the efficiencies are Part A or Part B.
4. Identify if cooling towers have propeller fans. If towers use centrifugal fans, document which exception is used.
5. If air-cooled chillers are used, document which exceptions have been used to comply with 140.4(j) and the total installed design capacity of the air-cooled chillers in the chilled water plant.
6. Identify the existence of a completed MCH-06-E when open or closed circuit cooling towers are specified to be installed, otherwise enter "N/A".

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA
HVAC SYSTEM REQUIREMENTS
CERTIFICATE OF COMPLIANCE
Power Consumption of Fans Requirements
Project Name: Calexico HS CTE Mod
Date Issued: 11/28/2018

DOCUMENTATION AUTHORS DECLARATION STATEMENT
I, the undersigned, certify that this Certificate of Compliance documentation is accurate and complete.
Signature: Brandon Harinton
Date Signed: 11/28/2018
Address: 4467 35th St. Unit A, San Diego, CA 92116
Phone: 858.602.6731

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.
Responsible Designer Name: Jimmy Sanders
Date Signed: 11/28/2018
Address: 1102 Industry Way, Suite A, El Centro, CA 92243
Phone: 760-353-5440

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA
FAN POWER CONSUMPTION
CERTIFICATE OF COMPLIANCE
Power Consumption of Fans Requirements
Project Name: Calexico HS CTE Mod
Date Issued: 11/28/2018

A. Constant Volume Fan Systems
NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Constant Volume Fan Systems when using the Prescriptive Approach. See Power Consumption of Fans §140.4(i).

FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY	NUMBER OF FANS	PEAK WATTS A02 x A04 x 746 / (A03 x A05)	
HP-3 - Supply Fan	0.770	88.5 %	97.0 %	1.0	693

B. Variable Air Volume Fan Systems
NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Variable Air Volume (VAV) Systems when using the Prescriptive Approach. See Power Consumption of Fans §140.4(i).

FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY	NUMBER OF FANS	PEAK WATTS A02 x A04 x 746 / (A03 x A05)
-----------------	-----------------	------------	----------------	--

C. Totals and Adjustments
FILTER PRESSURE ADJUSTMENT Equation 140.4-A in §140.4(i) of the Building Energy Efficiency Standards.
D1 TOTAL FAN SYSTEM POWER (WATTS, SUM COLUMN F)
D2 SUPPLY DESIGN AIRFLOW
D3 TOTAL FAN SYSTEM POWER INDEX (Row 1 / Row 2)
D4 If filter pressure drop (SP) is greater than 1 inch W.C. or 0.45 Pascal then enter SP on line 4. Enter total fan pressure drop across the fan (SP) on line 5.
D5 SP
D6 Fan Adjustment = 1 - SP₄ - 1/SP₅
D7 ADJUSTED FAN POWER INDEX (Line 3 x Line 6)
D8 ADJUSTED FAN POWER INDEX must not exceed 0.8 Wd/hp for Constant Volume systems or 1.25 Wd/hp for VAV systems.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA
FAN POWER CONSUMPTION
CERTIFICATE OF COMPLIANCE
Power Consumption of Fans Requirements
Project Name: Calexico HS CTE Mod
Date Issued: 11/28/2018

A. Constant Volume Fan Systems
NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Constant Volume Fan Systems when using the Prescriptive Approach. See Power Consumption of Fans §140.4(i).

FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY	NUMBER OF FANS	PEAK WATTS A02 x A04 x 746 / (A03 x A05)	
HP-3 - Supply Fan	0.770	88.5 %	97.0 %	1.0	693

B. Variable Air Volume Fan Systems
NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Variable Air Volume (VAV) Systems when using the Prescriptive Approach. See Power Consumption of Fans §140.4(i).

FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY	NUMBER OF FANS	PEAK WATTS A02 x A04 x 746 / (A03 x A05)
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C. Totals and Adjustments
FILTER PRESSURE ADJUSTMENT Equation 140.4-A in §140.4(i) of the Building Energy Efficiency Standards.
D1 TOTAL FAN SYSTEM POWER (WATTS, SUM COLUMN F)
D2 SUPPLY DESIGN AIRFLOW
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D4 If filter pressure drop (SP) is greater than 1 inch W.C. or 0.45 Pascal then enter SP on line 4. Enter total fan pressure drop across the fan (SP) on line 5.
D5 SP
D6 Fan Adjustment = 1 - SP₄ - 1/SP₅
D7 ADJUSTED FAN POWER INDEX (Line 3 x Line 6)
D8 ADJUSTED FAN POWER INDEX must not exceed 0.8 Wd/hp for Constant Volume systems or 1.25 Wd/hp for VAV systems.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA
FAN POWER CONSUMPTION
CERTIFICATE OF COMPLIANCE
Power Consumption of Fans Requirements
Project Name: Calexico HS CTE Mod
Date Issued: 11/28/2018

A. Constant Volume Fan Systems
NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Constant Volume Fan Systems when using the Prescriptive Approach. See Power Consumption of Fans §140.4(i).

FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY	NUMBER OF FANS	PEAK WATTS A02 x A04 x 746 / (A03 x A05)	
HP-3 - Supply Fan	0.770	88.5 %	97.0 %	1.0	693

B. Variable Air Volume Fan Systems
NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Variable Air Volume (VAV) Systems when using the Prescriptive Approach. See Power Consumption of Fans §140.4(i).

FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY	NUMBER OF FANS	PEAK WATTS A02 x A04 x 746 / (A03 x A05)
-----------------	-----------------	------------	----------------	--

C. Totals and Adjustments
FILTER PRESSURE ADJUSTMENT Equation 140.4-A in §140.4(i) of the Building Energy Efficiency Standards.
D1 TOTAL FAN SYSTEM POWER (WATTS, SUM COLUMN F)
D2 SUPPLY DESIGN AIRFLOW
D3 TOTAL FAN SYSTEM POWER INDEX (Row 1 / Row 2)
D4 If filter pressure drop (SP) is greater than 1 inch W.C. or 0.45 Pascal then enter SP on line 4. Enter total fan pressure drop across the fan (SP) on line 5.
D5 SP
D6 Fan Adjustment = 1 - SP₄ - 1/SP₅
D7 ADJUSTED FAN POWER INDEX (Line 3 x Line 6)
D8 ADJUSTED FAN POWER INDEX must not exceed 0.8 Wd/hp for Constant Volume systems or 1.25 Wd/hp for VAV systems.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA
FAN POWER CONSUMPTION
CERTIFICATE OF COMPLIANCE
Power Consumption of Fans Requirements
Project Name: Calexico HS CTE Mod
Date Issued: 11/28/2018

DOCUMENTATION AUTHORS DECLARATION STATEMENT
I, the undersigned, certify that this Certificate of Compliance documentation is accurate and complete.
Signature: Brandon Harinton
Date Signed: 11/28/2018
Address: 4467 35th St. Unit A, San Diego, CA 92116
Phone: 858.602.6731

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.
Responsible Designer Name: Jimmy Sanders
Date Signed: 11/28/2018
Address: 1102 Industry Way, Suite A, El Centro, CA 92243
Phone: 760-353-5440

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA
FAN POWER CONSUMPTION
CERTIFICATE OF COMPLIANCE
Power Consumption of Fans Requirements
Project Name: Calexico HS CTE Mod
Date Issued: 11/28/2018

A. Constant Volume Fan Systems
NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Constant Volume Fan Systems when using the Prescriptive Approach. See Power Consumption of Fans §140.4(i).

FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY	NUMBER OF FANS	PEAK WATTS A02 x A04 x 746 / (A03 x A05)	
HP-3 - Supply Fan	0.770	88.5 %	97.0 %	1.0	693

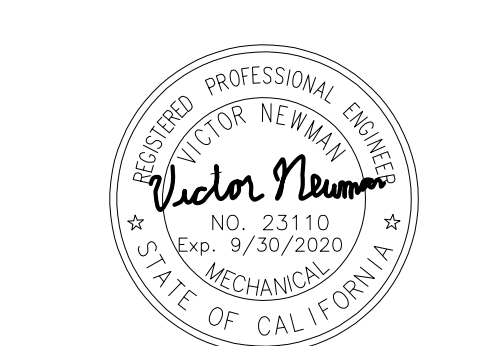
B. Variable Air Volume Fan Systems
NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Variable Air Volume (VAV) Systems when using the Prescriptive Approach. See Power Consumption of Fans §140.4(i).

FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY	NUMBER OF FANS	PEAK WATTS A02 x A04 x 746 / (A03 x A05)
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C. Totals and Adjustments
FILTER PRESSURE ADJUSTMENT Equation 140.4-A in §140.4(i) of the Building Energy Efficiency Standards.
D1 TOTAL FAN SYSTEM POWER (WATTS, SUM COLUMN F)
D2 SUPPLY DESIGN AIRFLOW
D3 TOTAL FAN SYSTEM POWER INDEX (Row 1 / Row 2)
D4 If filter pressure drop (SP) is greater than 1 inch W.C. or 0.45 Pascal then enter SP on line 4. Enter total fan pressure drop across the fan (SP) on line 5.
D5 SP
D6 Fan Adjustment = 1 - SP₄ - 1/SP₅
D7 ADJUSTED FAN POWER INDEX (Line 3 x Line 6)
D8 ADJUSTED FAN POWER INDEX must not exceed 0.8 Wd/hp for Constant Volume systems or 1.25 Wd/hp for VAV systems.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

DIVISION 15
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11180 Turquoise Circle
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Project Title
CALEXICO UNIFIED SCHOOL DISTRICT
CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION

Sheet Title
ENERGY CALCULATIONS

Document Date 11-26-18	Project Number 18-25CX
Date Last Revised	Sheet Number M2.2

LICENSED ARCHITECT
JIMMY SANDERS
NO. 7644
EL CENTRO, CA
STATE OF CALIFORNIA

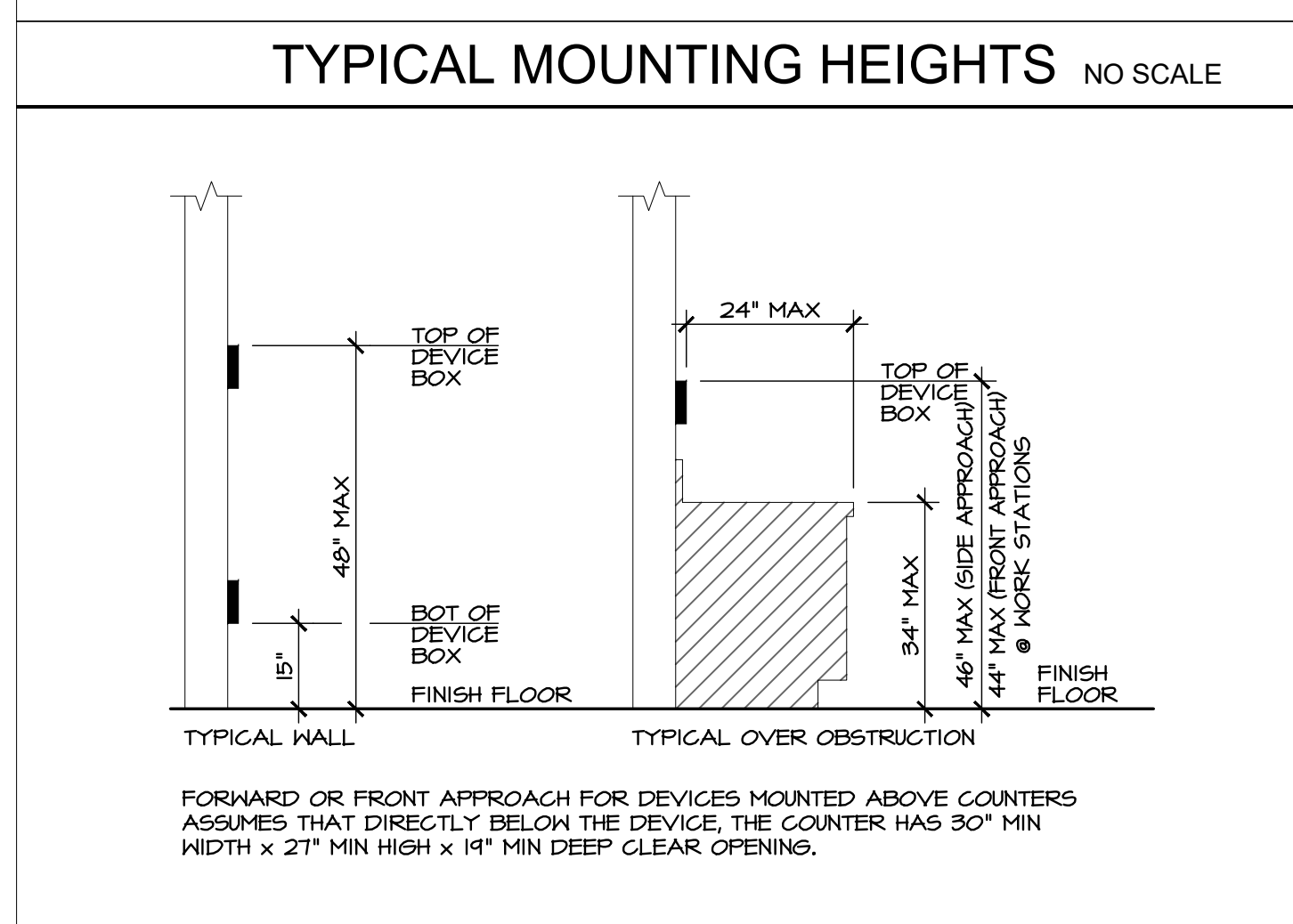
LIGHTING/SWITCHING SYMBOLS

	LIGHTING CONTROL PANEL. SEE CONTROL DETAIL AND SCHEDULES FOR MORE INFORMATION.
	PUSH BUTTON LOW VOLTAGE OVERRIDE CONTROL SWITCH
	ZONE CONTROLLED (UPPER CASE LETTER DENOTES ZONE CONTROLLED)
	SWITCH LEG CONTROLLED (LOWER CASE LETTER DENOTES SWITCH LEG CONTROLLED)
	SWITCH, SINGLE POLE 20A, MTD. 48" AFF TO TOP. DESIGNATION TO CONTROL LIGHTING IN CIRCUIT LEGS. DEVICE: WHITE COVERPLATE: WHITE 2- DOUBLE POLE K - KEYPAD SWITCH 3- THREE WAY T - MANUAL MOTOR STARTER WITH THERMAL OVERLOADS 4- FOUR WAY D - LOAD RATED DIMMER PL - PILOT LIGHT PB - PUSHBUTTON
	WALL MOUNTED MOTION CONTROLLED LIGHTING SWITCH WITH INTEGRAL BI-LEVEL SWITCHING. DEVICE - WHITE MTD. 48" AFF TO TOP.
	MOTION SENSOR MANUAL SWITCH-RAISE/LOWER/ON/OFF DEVICE - WHITE MTD. 48" AFF TO TOP.
	CEILING MOUNTED ULTRASONIC MOTION SENSOR. DEVICE: WHITE
	MOTION MOUNTED DUAL-TECHNOLOGY MOTION SENSOR. DEVICE: WHITE
	FIXTURE CALLOUT: TYPE (SEE LIGHT FIXTURE SCHEDULE) RATING QUANTITY
	RELAY
	TIME CLOCK
	MOTION SENSOR POWER PACK
	EMERGENCY POWER OFF PUSHBUTTON, MOUNTED AT +48" UON.
	PHOTOCELL

TEL/DATA SYMBOLS

	DATA OUTLET WITH TRIM RING, FULLSTRING TO ACCESSIBLE CEILING SPACE. +18" A.F.F. TO CENTER.
	TELEPHONE OUTLET WITH TRIM RING, FULLSTRING TO ACCESSIBLE CEILING SPACE. +18" A.F.F. TO CENTER.
	TELECOMMUNICATIONS OUTLET WITH TRIM RING, FULLSTRING TO ACCESSIBLE CEILING SPACE +18" A.F.F. TO CENTER.
	TELECOMMUNICATION OUTLET FLUSH FLOOR MOUNTED ON FIRE RATED FLOOR THRU.
	SPEAKER BACK BOX LOCATION
	INTERCOM J-BOX LOCATION
	ELECTROMAGNETIC DOOR HOLDER
	INTERCOM LOCATION
	CARD READER
	ELECTRIC DOOR STRIKE
	3/4" FIRE RATED PLYWOOD BACKBOARD WITH #6AWG GROUND TO BUILDING SYSTEM GROUND.
	CABLE TRAY PER PLANS. COORDINATE ROUTING WITH OTHER DISCIPLINES.

- ### GENERAL NOTES
1. ALL ELECTRICAL DEVICES AND UTILIZATION EQUIPMENT SHALL BE LISTED BY AN APPROVED TESTING AGENCY.
 2. ALL WORK TO COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE.
 3. USE COPPER CONDUCTORS ONLY.
 4. THERMOSTATS, SWITCHES AND/OR RECEPTACLES INSTALLED IN RESTROOMS OR OTHER AREAS EQUIPPED FOR THE DISABLED, SHALL BE LOCATED AT NOT TO EXCEED 48" TO CENTER OF DEVICE FROM THE FLOOR.
 5. CONTRACTOR IS TO VERIFY MOUNTING HEIGHTS OF ALL DEVICES PRIOR TO MOUNTING.
 6. VERIFY ROUTING OF ANY SURFACE MOUNTED CONDUITS PRIOR TO INSTALLATION.
 7. REVIEW ALL PLANS BY OTHER TRADES AND PROVIDE ADDITIONAL WORK AS REQUIRED NOT OUTLINED IN THESE DOCUMENTS.
 8. COORDINATE ALL DIMMING FLUORESCENT BALLASTS WITH DIMMING SYSTEM, PROVIDE WIRE COUNT AS REQUIRED. USE ADVANCE MARK X BALLASTS.
 9. ELECTRICAL CONTRACTOR SHALL PROVIDE MULTI-POLE CIRCUIT BREAKERS WITH COMMON TRIP OR U.L. LISTED HANDLE TIES FOR ALL MULTI-POLE CIRCUITS WITH SHARED NEUTRAL.



POWER SYMBOLS

	JUNCTION BOX
	WALL MOUNTED JUNCTION BOX.
	DUPLEX RECEPTACLE MTD 18" AFF TO CENTER COVERPLATE COLOR: WHITE DEVICE TYPE DEVICE COLOR STANDARD WHITE IG ISOLATED GROUND ORANGE D DEDICATED 20A RATED GRAY UFS 15A OR 20A UFS GRAY EM EMERGENCY RED T TAMPER RESISTANT WHITE
	GFI DUPLEX RECEPTACLE MTD 18" AFF TO CENTER COVERPLATE COLOR: WHITE
	GFI DUPLEX WEATHERPROOF RECEPTACLE MTD 18" AFF TO CENTER. USE "IN USE" TYPE COVER PLATES
	DOUBLE DUPLEX RECEPTACLE MTD 18" AFF TO CENTER. SCHEDULE AS NOTED ABOVE.
	SPLIT WIRED 15A 1/2 HOT, 1/2 SWITCHED OUTLET COLOR: WHITE
	DUPLEX RECEPTACLE CONTROLLED BY OCCUPANCY SENSOR, MTD 18" AFF TO CENTER. SCHEDULE AS NOTED ABOVE.
	DOUBLE DUPLEX RECEPTACLE WITH ONE DUPLEX CONTROLLED BY OCCUPANCY SENSOR, MTD 18" AFF TO CENTER. SCHEDULE AS NOTED ABOVE.
	208V/110 RECEPTACLE, NEMA CONFIGURATION AS NOTED.
	208V/30 RECEPTACLE, NEMA CONFIGURATION AS NOTED.
	FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE.
	FLOOR BOX WITH DOUBLE DUPLEX RECEPTACLE AND SINGLE GANG TEL/DATA RECEPTACLE.
	FLOOR BOX WITH DUPLEX RECEPTACLE AND SINGLE GANG TEL/DATA RECEPTACLE.
	SPECIALTY FLOOR BOX PER PLANS MULTIPLE GANG BOX. SEE SPECS.
	PEDESTAL MOUNTED DOUBLE DUPLEX RECEPTACLE MANUF: HUBBELL#SA6600 1/4" STAINLESS STEEL COVERPLATES
	PEDESTAL MOUNTED DUPLEX RECEPTACLE MANUF: HUBBELL#SA6606 1/4" STAINLESS STEEL COVERPLATES
	WEATHERPROOF GFI WORK OUTLET. PROVIDE CAST BOX 1/4" STAINLESS STEEL W/FP COVER.
	EXTERNALLY OPERATED FUSED DISCONNECT SWITCH. PROVIDE PER NEMA RATING REQUIRED.
	COMBINATION FVNR MAGNETIC MOTOR STARTER AND DISCONNECT RATING AND POLES AS INDICATED. PROVIDE WITH OVERLOAD PER HORSEPOWER REQUIREMENTS, CPT, H.O.A. WITH PILOT LIGHTS, PROVIDE WITH (1) EACH N.O. AND N.C. AUX CONTACTS.
	FVNR MAGNETIC STARTER WITH OVERLOAD PER HORSEPOWER REQUIREMENTS, CPT, H.O.A. WITH PILOT LIGHTS, PROVIDE WITH (1) EACH N.O. AND N.C. AUX CONTACTS.
	MOTOR PROVIDED BY OTHERS.
	FLUSH MOUNTED PANELBOARD
	SURFACE MOUNTED PANELBOARD
	SURFACE MOUNTED LIGHTING CONTROL PANEL, U.O.N.
	FLUSH MOUNTED LIGHTING DIMMING PANEL, U.O.N.
	FIRE RATED DOUBLE DUPLEX POKE THROUGH, SEE DETAILS FOR MORE INFORMATION.
	FIRE RATED SYSTEMS FURNITURE FEED POKE THROUGH, SEE DETAILS FOR MORE INFORMATION.
	CLOCK HANGER OUTLET ONLY, MOUNTED AT +1" U.O.N.
	TELEVISION SYSTEM OUTLET WITH JACK, WALL MOUNTED AT +12" U.O.N.
	MULTI-OUTLET ASSEMBLY, LENGTH AS INDICATED ON PLANS.
	FLEXIBLE CONDUIT
	WIRING OR CONDUIT CONCEALED IN WALL OR CEILING
	WIRING OR CONDUIT EXPOSED
	WIRING OR CONDUIT CONCEALED UNDERGROUND OR IN FLOOR
	RACEWAY OR WIREWAY ASSEMBLY DOWN
	RACEWAY OR WIREWAY ASSEMBLY UP
	HOMERUN TO PANEL, CIRCUITS AS INDICATED.
	UNDERGROUND HOMERUN TO PANEL, CIRCUITS AS INDICATED.
	CONCEALED EMT CONDUIT WITH THIN WIRE 2#12 AWG 3/4" C. MINIMUM
	CONCEALED EMT CONDUIT WITH THIN WIRE 2#12 AWG 3/4" MINIMUM. CHEVRONS INDICATE #10 CONDUCTORS
	FUSED SWITCH, SEE SINGLE LINE DIAGRAM FOR MORE INFORMATION.
	CIRCUIT BREAKER, SEE SINGLE LINE DIAGRAM FOR MORE INFORMATION.
	TRANSFORMER, SEE SINGLE LINE DIAGRAM FOR MORE INFORMATION.
	CURRENT TRANSFORMER
	AUTOMATIC TRANSFER SWITCH
	GROUNDING ELECTRODE
	SMOKE DETECTOR

MEP Component Anchorage Note

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA approved construction documents. Where no detail is indicated, the following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2013 CBC, Sections 1616A.1.18 through 1616A.1.26 and ASCE 7-10, Chapter 13, 26, and 30.

1. All permanent equipment and components.
2. Temporary or movable equipment that is permanently attached (e.g. hard wired) to the building utility services such as electricity, gas or water.
3. Movable equipment which is stationed in one place for more than 8 hours and heavier than 400 pounds are required to be anchored with temporary attachments.

The attachment of the following mechanical and electrical components shall be positively attached to the structure, but need not be detailed on the plans. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit.

- A. Components weighing less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
- B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

For those elements that do not require details on the approved drawings, the installation shall be subject to the approval of the Structural Engineer of Record and the DSA District Structural Engineer. The project inspector will verify that all components and equipment have been anchored in accordance with above requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Note

Piping, ductwork and electrical distribution systems shall be braced to comply with forces and displacements prescribed in ASCE 7-10 Section 13.3 as defined in ASCE 7-10 Section 13.6.7, 13.6.8, 13.6.8.6 and 13.6.8.6.6 and CBC, Sections 1616A.1.23, 1616A.1.24, 1616A.1.25, and 1616A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a pre approved installation guide (e.g., SMACNA or OSHPD OPM), 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, Mechanical Ducts, Plumbing Piping and Electrical Distribution Systems shall comply with applicable OSHPD preapproved OPM# OPM-0043-13.

ABBREVIATIONS

A	AMPERES
AC	ALTERNATING CURRENT
AIC	AMPERES INTERRUPTING CAPACITY
ATFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AF	AMP FRAME/AMP FUSE
AL	ALUMINUM
ARCH	ARCHITECT OR ARCHITECTURAL
AS	AMP SWITCH
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
EKBED	ENKAGED
C	CONDUIT WITH WIRE
CATV	CABLE TELEVISION
CDTV	CLOSED CIRCUIT TELEVISION
CB	CIRCUIT BREAKER
CLF	CURRENT LIMITING FUSE
C.O.	CONDUIT ONLY WITH NYLON PULL CORD
CONTR	CONTRACTOR
CU	COPPER
CT	CURRENT TRANSFORMER
CA	COLD WATER
D	DEDICATED OUTLET
DC	DIRECT CURRENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DISC	DISCONNECT
DIST	DISTRIBUTION
DRWS	DRAWINGS
EA	EACH
EB	45-MINUTE BATTERY CONNECTED TO UNIT
EC	ELECTRICAL CONTRACTOR
EG	EMERGENCY GENERATOR CONNECTION
EF	EXHAUST FAN
ELECT	ELECTRICAL
ELEV	ELEVATION/ELEVATOR
EMT	ELECTRO-METALLIC TUBING
EXIST	EXISTING
FA	FIRE ALARM
FC	FOOT CANDLE
FIXT	FIXTURE
FLUOR	FLUORESCENT
FT	FEET OR FOOT
GC	GENERAL CONTRACTOR
GD	GARBAGE DISPOSAL
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
GFR	GROUND FAULT RELAY
GRD	GROUND
H	HORIZONTAL
HD	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HR	HOUR
HT	HEIGHT
HZ	HERTZ
IG	ISOLATED GROUND BUS OR WIRE
IMC	INTERMEDIATE METAL CONDUIT
INCAND	INCANDESCENT
J-BOX	JUNCTION BOX
KVA	KILO-VOLT-AMPERE
KA	KILO-WATT
KWH	KILOWATT-HOUR
LF	LINEAL FEET
LTS	LIGHTING
LV	LOW VOLTAGE
MANUF	MANUFACTURER
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MCC	MOTOR CONTROL CENTER
MESH	MECHANICAL
MIN	MINIMUM
MH	METAL HALIDE
MLO	MAIN LUGS ONLY
MTS	MOUNTING
MV	MERCURY VAPOR
N	NEUTRAL
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NTS	NOT TO SCALE
ON	ON CENTER
OF/CI	OWNER FURNISHED CONTRACTOR, INSTALLED
OF/CI	OWNER FURNISHED OWNER INSTALLED
P	PEDESTAL MOUNT
PB	PULL BOX
PC	PHOTOCELL CONTROL
PCTG	PHOTOCELL/TIMELOCK CONTROL
PH	PHASE
PV	POST INDICATING VALVE
PL	PILOT LIGHT
PVC	POLYVINYL CHLORIDE
PWR	POWER
PP	POWER POLE
QR	QUANTITY
QTY	QUANTITY
RECEPT	RECEPTACLE
REF	REFRIGERATOR
RGS	RIGID GALVANIZED STEEL
SD	SMOKE DETECTOR
SPEC	SPECIFICATION
SQ FT	SQUARE FEET OR SQUARE FOOT
SN	SWITCH
SNBD	SWITCHBOARD
TEMP	TEMPERATURE OR TEMPORARY
TV	TELEVISION
TEL, TELE	TELEPHONE
TG	TIME CLOCK
TRANSF	TRANSFORMER
TYP	TYPICAL
UGPS	UNDERGROUND PULL SECTION
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
VA	VOLT-AMPERE
WH	WATER HEATER
WP	WEATHER PROOF
XFMR	TRANSFORMER



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REGISTERED PROFESSIONAL ENGINEER
 SANDERS, INC.
 LICENSE NO. 60766912
 ELECTRICAL
 STATE OF CALIFORNIA

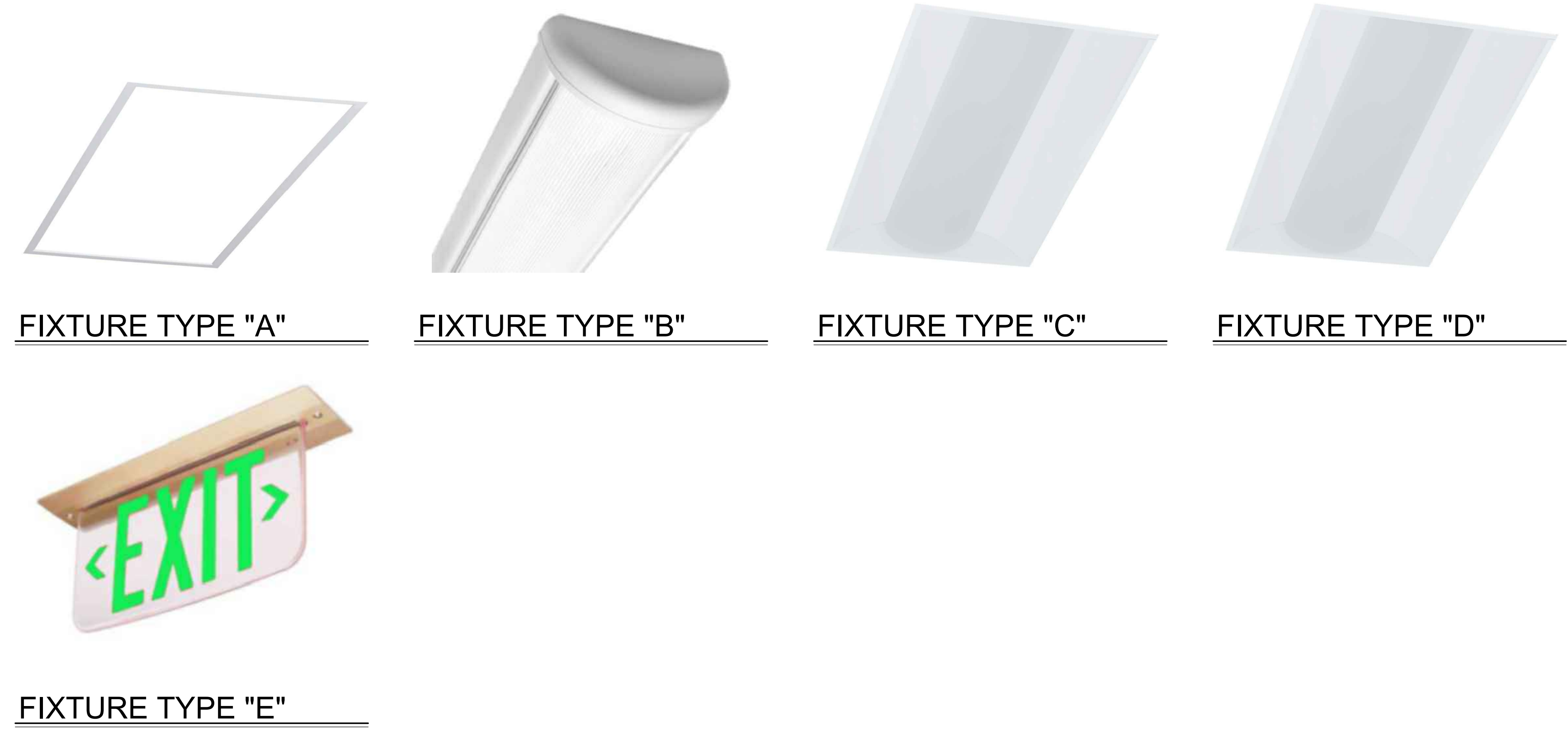
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Project Title
**CENTRAL UNION HIGH SCHOOL DISTRICT
 CALEXICO HIGH SCHOOL - CULINARY**

Sheet Title
SYMBOLS LIST

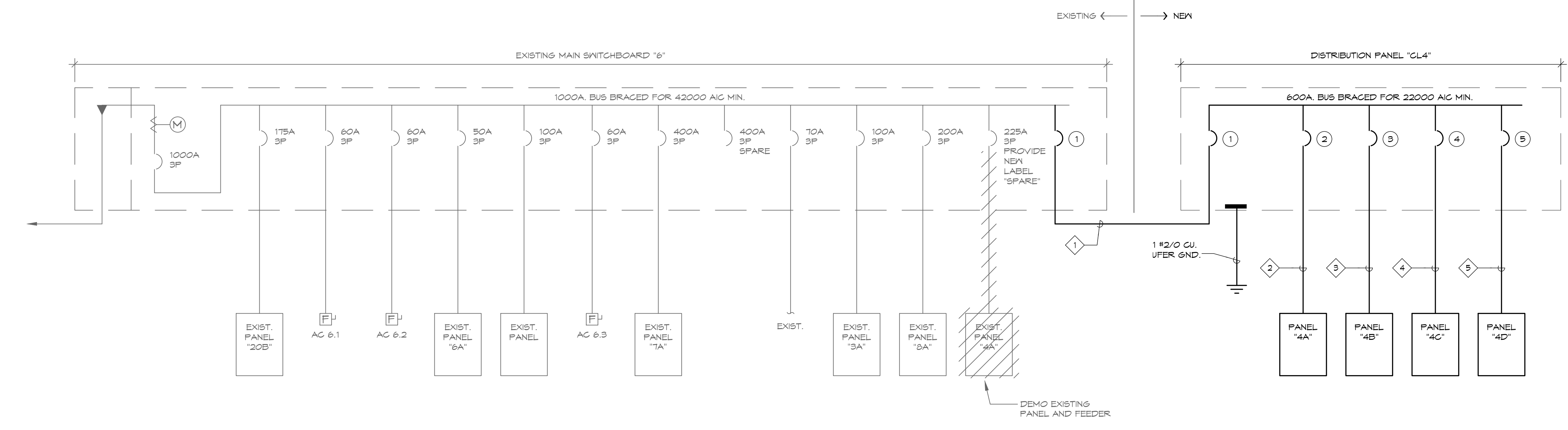
	Document Date	Project Number
	16-36CU	16-36CU
	Date Last Revised	Sheet Number
	11/12/13	E0.1



LIGHT FIXTURE SCHEDULE									
FIXTURE TYPE	SYMBOL	MANUFACTURER	CATALOG NUMBER	WATTS	VOLTS	MTG	LAMP TYPE	BUG	REMARKS
B		KENALL	MLHAD-48-R-MX-PP-45L55K-DCC-120	45	120	CS	45W LED	-	
C		COLUMBIA	LCAT24-35VWS-EU	28	120	CR	28W LED	-	
D		COLUMBIA	LCAT24-40LWS-EU	36	120	CR	36W LED	-	
E		DUAL LITE	LECS6ME	5	120	CR	FURNISHED WITH FIXTURE	-	①

MOUNTING TYPES:
 WS-WALL SURFACE, WR-WALL RECESSED, CS-CEILING SURFACE, CR-CEILING RECESSED, CH-CHAIN, PN-PENDANT, U-UNIVERSAL, G-GROUND, P-POLE, UC-UNDER CABINET, T-TRACK, CB-CABLE, TR-TRELLIS, C-COVE

NOTES:
 ① EXIT SIGN PROVIDED WITH EMERGENCY BATTERY PACK.

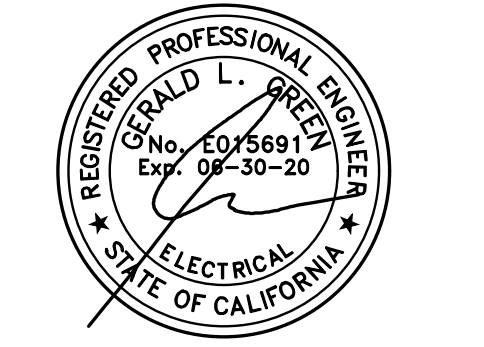
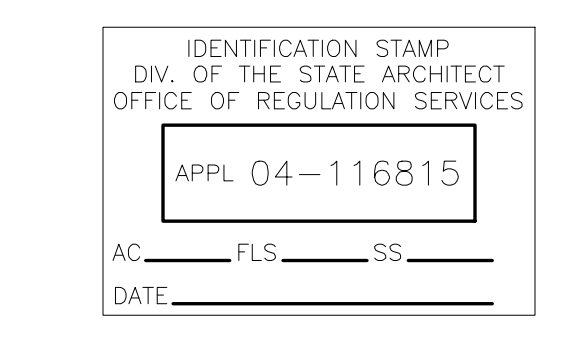


POWER SINGLE LINE DIAGRAM
 NO SCALE

DEVICE NUMBER	C.B. OR S.W. SIZE	FUSE SIZE	FUSE TYPE	FEEDER NUMBER	CONDUITS & CONDUCTORS							
					CONDUIT TYPE	CONDUIT SIZE	CNDCTR. QUANTITY	CNDCTR. SIZE	CNDCTR. TYPE	GND. CU.	LENGTH	00 V.D.
①	600A 3P	-	-	①	PVC	(2) 4"	(4) EACH	350 MCM	CU	2/0	170'	-
②	225A 3P	-	-	②	EMT	2 1/2"	4	4/0	CU	4	-	-
③	150A 3P	-	-	③	EMT	2"	4	1/0	CU	6	-	-
④	150A 3P	-	-	④	EMT	2"	4	1/0	CU	6	-	-
⑤	200A 3P	-	-	⑤	EMT	2"	4	3/0	CU	4	-	-

LOAD RECAP
 EXISTING HIGH DEMAND PER IID = 156800 W
 150800W X 1.25 = 196000 W
 NEW DISTRIBUTION PANEL "CLA"
 190556 W
 TOTAL 386556 W = 1074 A @ 120/208V, 3P

DEMAND CALC
 EXISTING LOAD = 196000 W
 KITCHEN EQUIPMENT AT 15% = 67310 W
 MISC. AT 100% = 86490 W
 TOTAL 350210 W = 979 A @ 120/208V, 3P



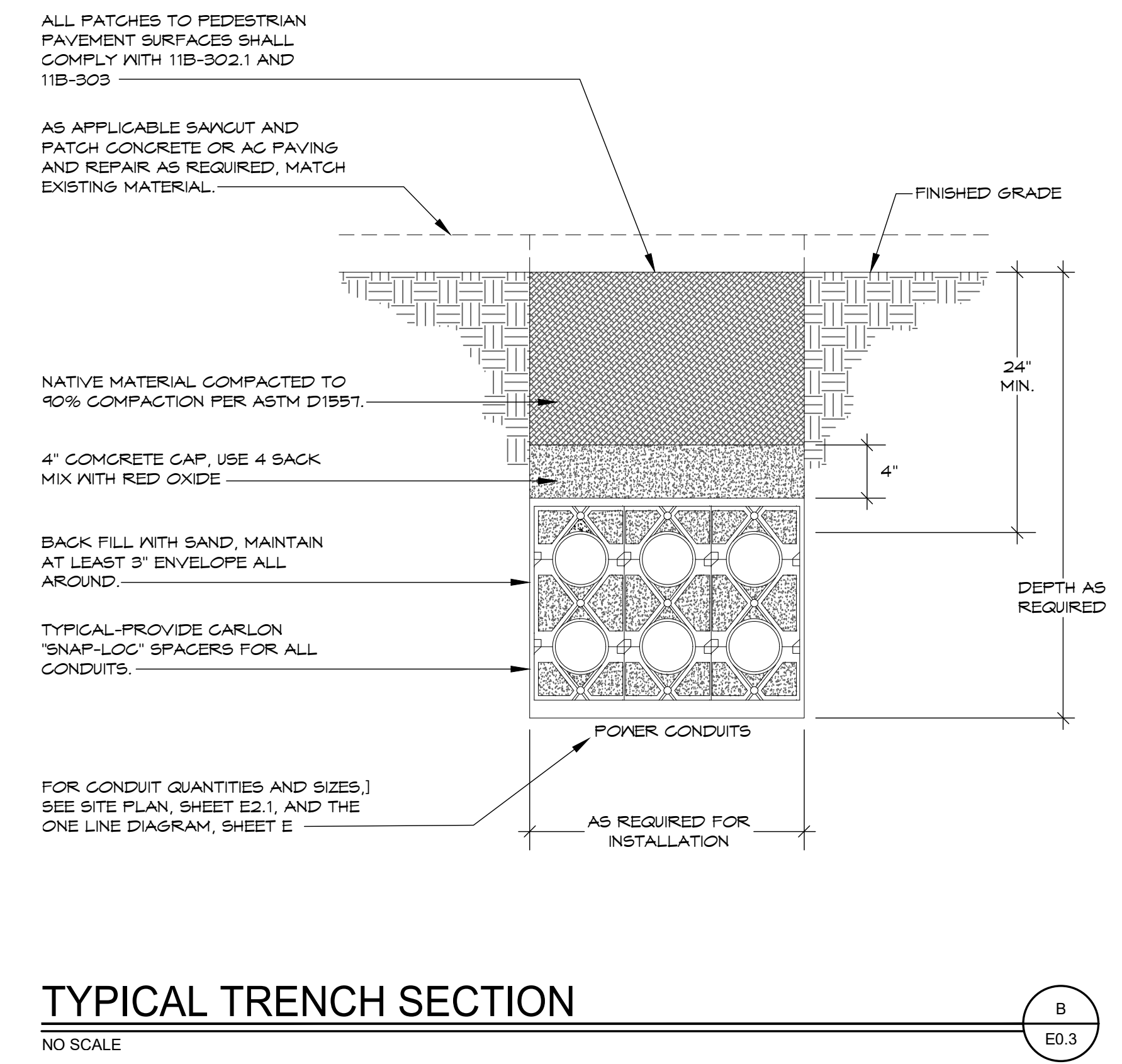
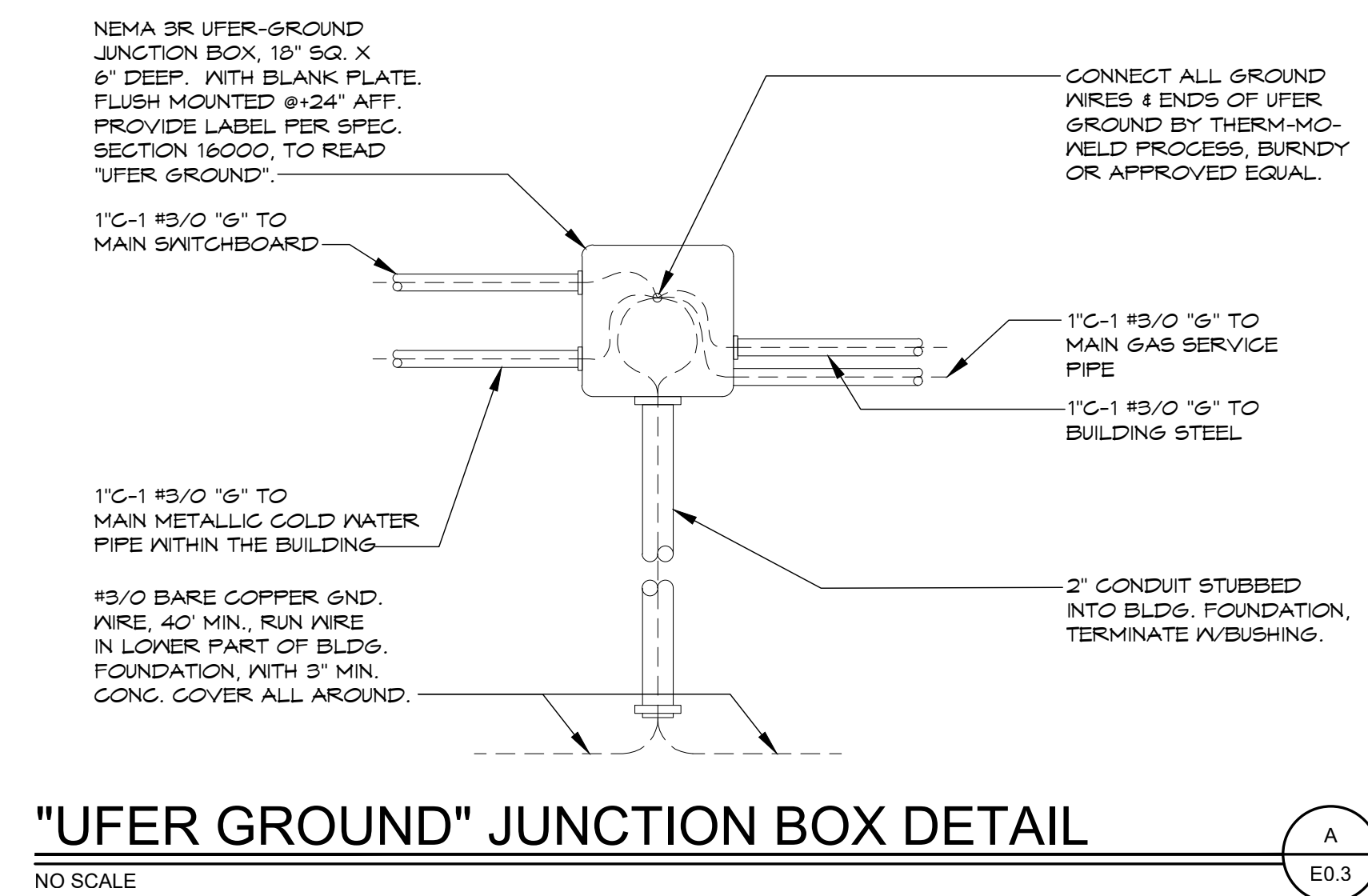
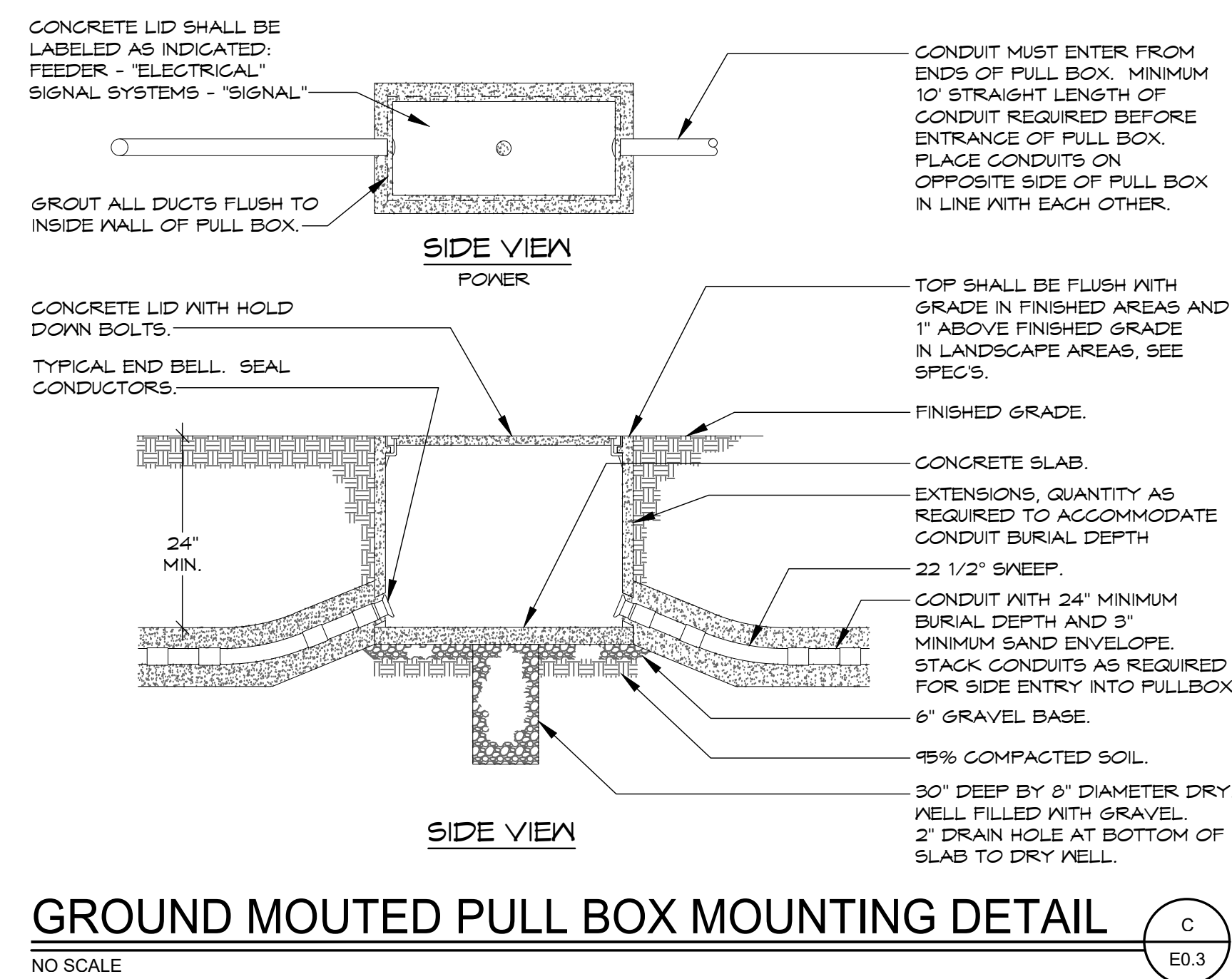
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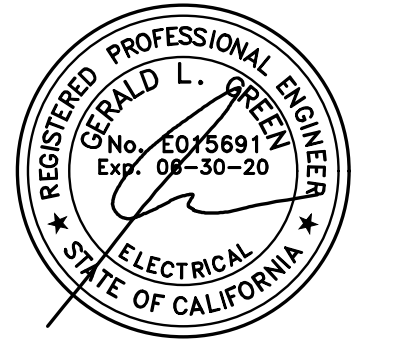
Project Title
**CENTRAL UNION HIGH SCHOOL DISTRICT
 CALEXICO HIGH SCHOOL - CULINARY**

Sheet Title
FIXTURE SCHEDULE + SINGLE LINE

	Document Date 16-36CU	Project Number 16-36CU
	Date Last Revised 11/12/13	Sheet Number E0.2



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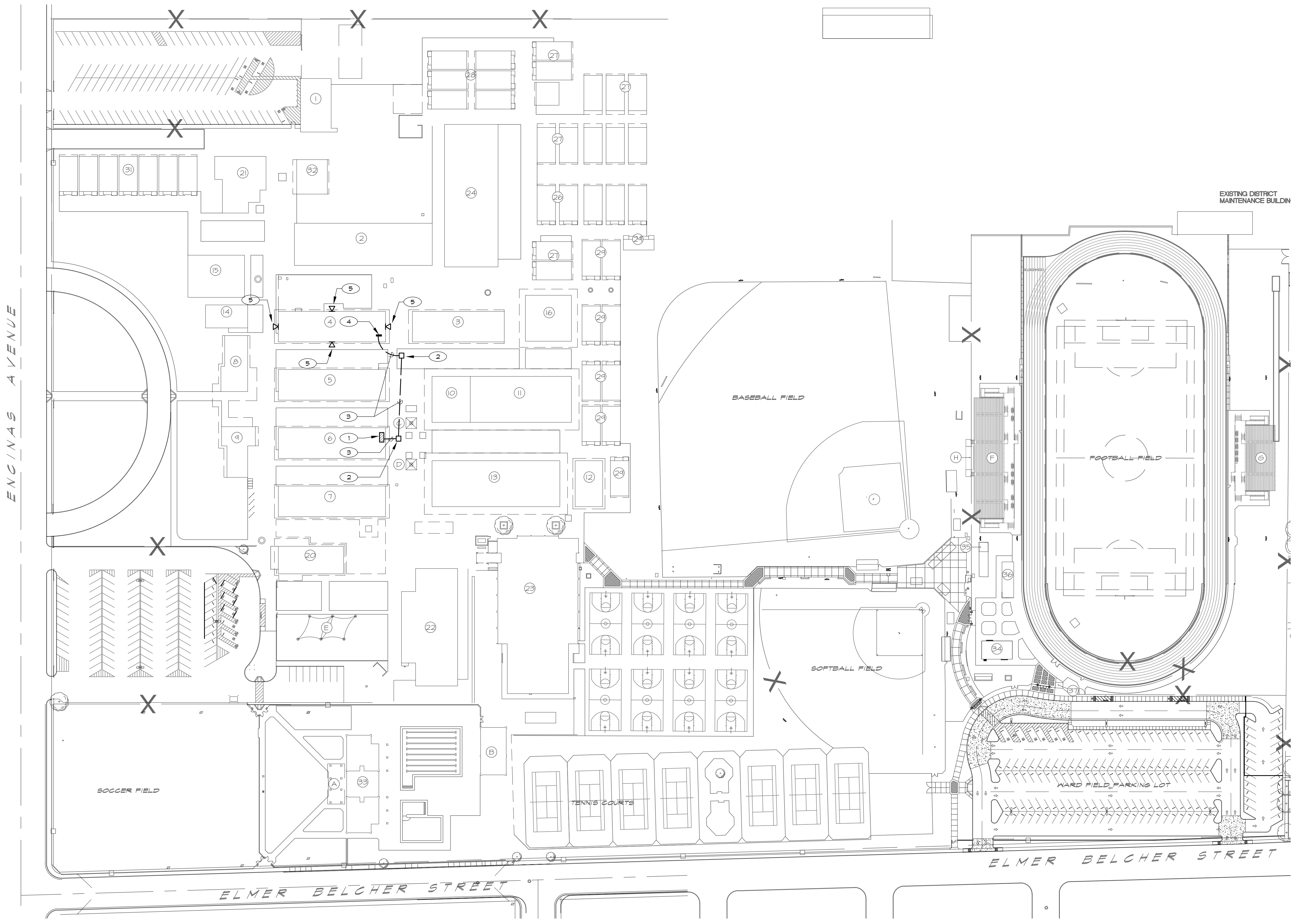
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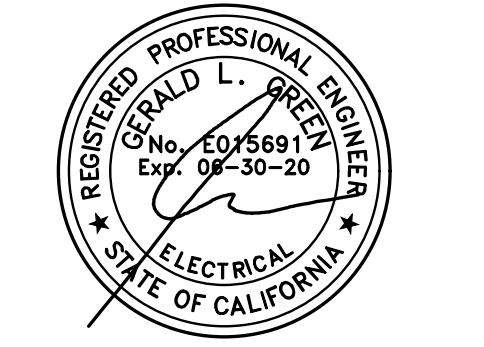
Sheet Title
DETAILS

	Document Date 16-36CU	Project Number 16-36CU
	Date Last Revised 11/12/16	Sheet Number E0.3

- LIGHTING NOTES**
- ① EXISTING MAIN SWITCHBOARD 'S'
 - ② FLUSH GRADE CONCRETE PULLBOX 36"x40"x34"D
 - ③ SEE SINGLE LINE FOR FEEDER
 - ④ NEW PANEL '4A'
 - ⑤ ADDRESSABLE WEATHERPROOF SPEAKER, WALL MOUNT. SEE FIRE ALARM PLANS FOR SPECIFICATIONS AND EXACT LOCATIONS.



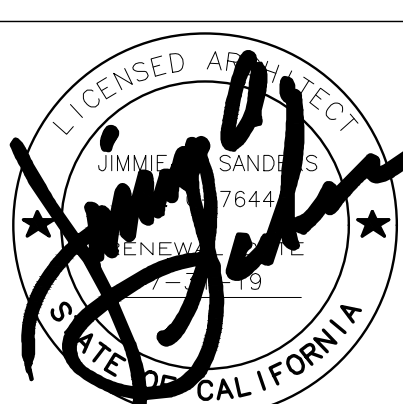
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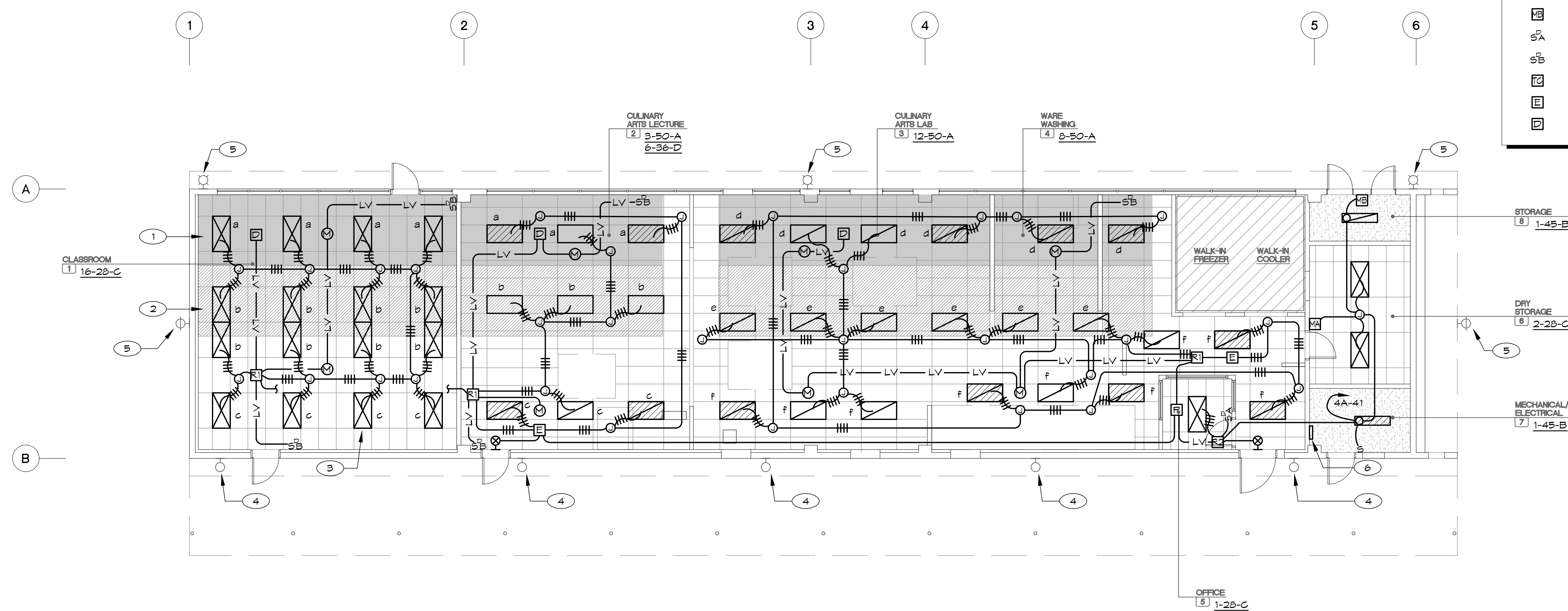


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**CENTRAL UNION HIGH SCHOOL DISTRICT
 CALEXICO HIGH SCHOOL - CULINARY**

Sheet Title
SITE ELECTRICAL PLAN

	Document Date 16-36CU	Project Number 16-36CU
	Date Last Revised 11/12/18	Sheet Number E1.1



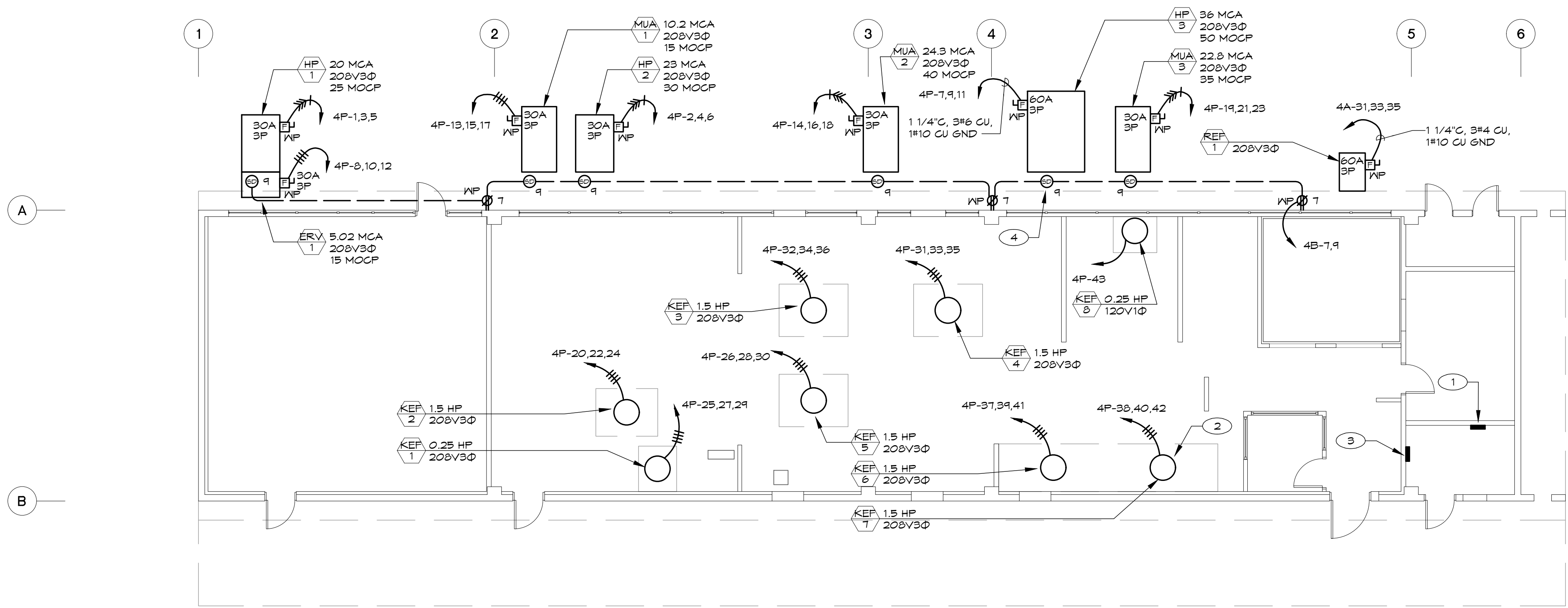
WATTSTOPPER CONTROL DEVICES	
SYMBOL	DESIGNATION
[Symbol]	LOAD CONTROLLER #LMRC-213
[Symbol]	LOAD CONTROLLER #LMRC-111
[Symbol]	PLUS LOAD CONTROLLER #LMPL-101
[Symbol]	CEILING MOUNT OCCUPANCY SENSOR #LMDC-100
[Symbol]	WALL MOUNTED MOTION SENSOR #DM100
[Symbol]	WALL MOUNT MOTION SENSOR #PM100
[Symbol]	DIMMING SWITCH #LMDW-102
[Symbol]	DIMMING SWITCH #LMSW-105
[Symbol]	TIME CLOCK #LMZC-301
[Symbol]	EMERGENCY TRANSFER #ELGU200
[Symbol]	DAYLIGHT SENSOR #MLMS-500

- LIGHTING NOTES**
- SHADING INDICATES PRIMARY SIDELIT AREA, TYPICAL
 - SHADING INDICATES SECONDARY SIDELIT AREA, TYPICAL
 - RE-CONNECT EXISTING POWER CIRCUIT IN CLASSROOM
 - EXISTING EXTERIOR LIGHTING, CONNECT TO NEW EMERGENCY INVERTER
 - EXISTING FIXTURES TO REMAIN
 - NEW LIGHTING INVERTER FOR EXISTING EXTERIOR FIXTURES, DUAL LITE #L62505

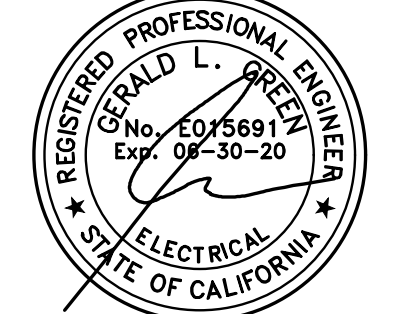
- GENERAL NOTES**
- VERIFY ALL CONTROL WIRING. PROVIDE SEPARATE CONDUIT FOR 0-10V CONTROL WIRING AS REQUIRED
 - CONNECT ALL LMBC-300'S VIA WATTSTOPPER LM-MSTP NETWORK CABLE (STRICT DAISY CHAIN, TERMINATE TO LMSM-3E SEGMENT 1 REQUIRED FOR DEMAND RESPONSE)

- ROOF NOTES**
- EXISTING PANEL "4P" TO BE REMOVED, PROVIDE NEW PANEL PER SCHEDULE
 - DISCONNECT IS PROVIDED WITH FAN, TYPICAL
 - PANEL "4B"
 - DUCT SMOKE DETECTOR BY MECHANICAL, CONNECTED BY ELECTRICAL CONTRACTOR, TYPICAL

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



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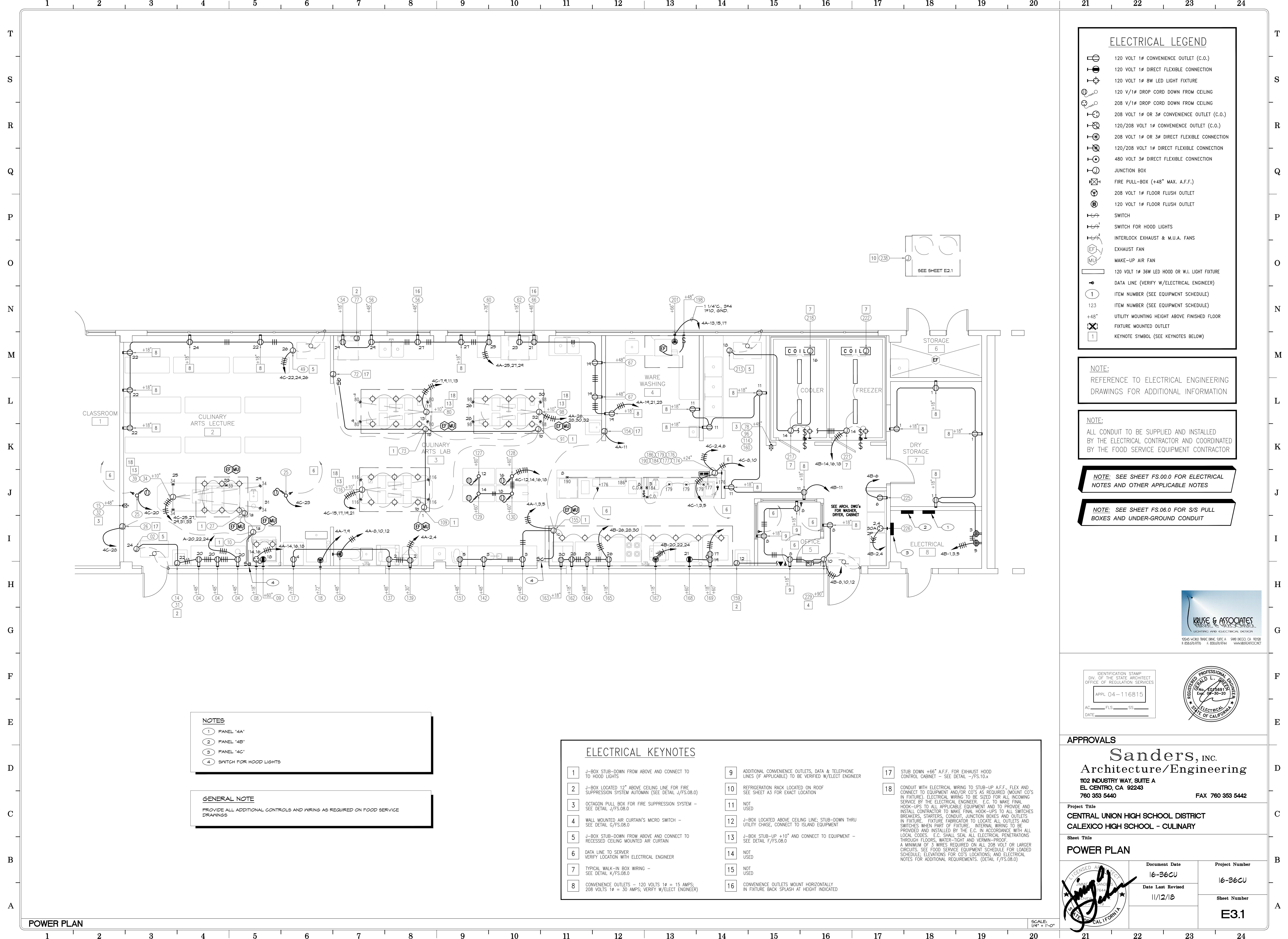
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 CALEXICO HIGH SCHOOL - CULINARY**

Sheet Title
LIGHTING + ROOF ELECTRICAL PLAN

	Document Date 16-36CU	Project Number 16-36CU
	Date Last Revised 11/12/13	Sheet Number E2.1

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



ELECTRICAL LEGEND	
	120 VOLT 1# CONVENIENCE OUTLET (C.O.)
	120 VOLT 1# DIRECT FLEXIBLE CONNECTION
	120 VOLT 1# 8W LED LIGHT FIXTURE
	120 V/1# DROP CORD DOWN FROM CEILING
	208 V/1# DROP CORD DOWN FROM CEILING
	208 VOLT 1# OR 3# CONVENIENCE OUTLET (C.O.)
	120/208 VOLT 1# CONVENIENCE OUTLET (C.O.)
	208 VOLT 1# OR 3# DIRECT FLEXIBLE CONNECTION
	120/208 VOLT 1# DIRECT FLEXIBLE CONNECTION
	480 VOLT 3# DIRECT FLEXIBLE CONNECTION
	JUNCTION BOX
	FIRE PULL-BOX (+48" MAX. A.F.F.)
	208 VOLT 1# FLOOR FLUSH OUTLET
	120 VOLT 1# FLOOR FLUSH OUTLET
	SWITCH
	SWITCH FOR HOOD LIGHTS
	INTERLOCK EXHAUST & M.J.A. FANS
	EXHAUST FAN
	MAKE-UP AIR FAN
	120 VOLT 1# 36W LED HOOD OR W.I. LIGHT FIXTURE
	DATA LINE (VERIFY W/ELECTRICAL ENGINEER)
	ITEM NUMBER (SEE EQUIPMENT SCHEDULE)
	123 ITEM NUMBER (SEE EQUIPMENT SCHEDULE)
	+48" UTILITY MOUNTING HEIGHT ABOVE FINISHED FLOOR
	FIXTURE MOUNTED OUTLET
	KEYNOTE SYMBOL (SEE KEYNOTES BELOW)

NOTE:
REFERENCE TO ELECTRICAL ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION

NOTE:
ALL CONDUIT TO BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AND COORDINATED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR

NOTE: SEE SHEET FS.00.0 FOR ELECTRICAL NOTES AND OTHER APPLICABLE NOTES

NOTE: SEE SHEET FS.06.0 FOR S/S PULL BOXES AND UNDER-GROUND CONDUIT

NOTES

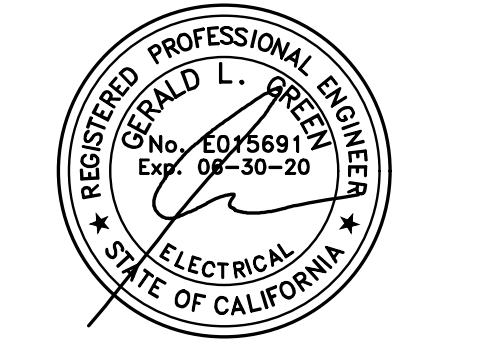
- 1 PANEL "4A"
- 2 PANEL "4B"
- 3 PANEL "4C"
- 4 SWITCH FOR HOOD LIGHTS

GENERAL NOTE
PROVIDE ALL ADDITIONAL CONTROLS AND WIRING AS REQUIRED ON FOOD SERVICE DRAWINGS

ELECTRICAL KEYNOTES			
1	J-BOX STUB-DOWN FROM ABOVE AND CONNECT TO HOOD LIGHTS	17	STUB DOWN +66" A.F.F. FOR EXHAUST HOOD CONTROL CABINET - SEE DETAIL -/FS.10.x
2	J-BOX LOCATED 12" ABOVE CEILING LINE FOR FIRE SUPPRESSION SYSTEM AUTOMAN (SEE DETAIL J/FS.08.0)	18	CONDUIT WITH ELECTRICAL WIRING TO STUB-UP A.F.F., FLEX AND CONNECT TO EQUIPMENT AND/OR CO'S AS REQUIRED (MOUNT CO'S IN FIXTURE). ELECTRICAL WIRING TO BE SIZED FOR ALL INCOMING SERVICE BY THE ELECTRICAL ENGINEER. E.C. TO MAKE FINAL HOOK-UPS TO ALL APPLICABLE EQUIPMENT AND TO PROVIDE AND INSTALL CONTRACTOR TO MAKE FINAL HOOK-UPS TO ALL SWITCHES, BREAKERS, STARTERS, CONDUIT, JUNCTION BOXES AND OUTLETS IN FIXTURE. FIXTURE FABRICATOR TO LOCATE ALL OUTLETS AND SWITCHES WHEN PART OF FIXTURE. INTERNAL WIRING TO BE PROVIDED AND INSTALLED BY THE E.C. IN ACCORDANCE WITH ALL LOCAL CODES. E.C. SHALL SEAL ALL ELECTRICAL PENETRATIONS THROUGH FLOORS, WATER-TIGHT AND VERMIN-PROOF. A MINIMUM OF 3 WIRES REQUIRED ON ALL 208 VOLT OR LARGER CIRCUITS. SEE FOOD SERVICE EQUIPMENT SCHEDULE FOR LOADED SCHEDULE, ELEVATIONS FOR CO'S LOCATIONS AND ELECTRICAL NOTES FOR ADDITIONAL REQUIREMENTS. (DETAIL F/FS.08.0)
3	OCTAGON PULL BOX FOR FIRE SUPPRESSION SYSTEM - SEE DETAIL J/FS.08.0		
4	WALL MOUNTED AIR CURTAIN'S MICRO SWITCH - SEE DETAIL G/FS.08.0		
5	J-BOX STUB-DOWN FROM ABOVE AND CONNECT TO RECESSED CEILING MOUNTED AIR CURTAIN		
6	DATA LINE TO SERVER - VERIFY LOCATION WITH ELECTRICAL ENGINEER		
7	TYPICAL WALK-IN BOX WIRING - SEE DETAIL K/FS.08.0		
8	CONVENIENCE OUTLETS - 120 VOLTS 1# = 15 AMPS; 208 VOLTS 1# = 30 AMPS; VERIFY W/ELECT ENGINEER		
9	ADDITIONAL CONVENIENCE OUTLETS, DATA & TELEPHONE LINES (IF APPLICABLE) TO BE VERIFIED W/ELECT ENGINEER		
10	REFRIGERATION RACK LOCATED ON ROOF - SEE SHEET A3 FOR EXACT LOCATION		
11	NOT USED		
12	J-BOX LOCATED ABOVE CEILING LINE, STUB-DOWN THRU UTILITY CHASE, CONNECT TO ISLAND EQUIPMENT		
13	J-BOX STUB-UP +10" AND CONNECT TO EQUIPMENT - SEE DETAIL F/FS.08.0		
14	NOT USED		
15	NOT USED		
16	CONVENIENCE OUTLETS MOUNT HORIZONTALLY IN FIXTURE BACK SPLASH AT HEIGHT INDICATED		



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Project Title
**CENTRAL UNION HIGH SCHOOL DISTRICT
CALEXICO HIGH SCHOOL - CULINARY**

Sheet Title
POWER PLAN

Document Date 16-36CU	Project Number 16-36CU
Date Last Revised 11/12/13	Sheet Number E3.1

STATE OF CALIFORNIA
INDOOR LIGHTING
 CERTIFICATE OF COMPLIANCE
 Indoor Lighting
 Project Name: Calexico High School Culinary Date Prepared: 11/12/2018

CA Building Energy Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING
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CA Building Energy Standards - 2016 Nonresidential Compliance April 2016

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CA Building Energy Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING - LIGHTING CONTROLS
 CERTIFICATE OF COMPLIANCE
 Indoor Lighting - Lighting Controls
 Project Name: Calexico High School Culinary Date Prepared: 11/12/2018

CA Building Energy Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA
INDOOR LIGHTING - LIGHTING CONTROLS
 CERTIFICATE OF COMPLIANCE
 Indoor Lighting - Lighting Controls
 Project Name: Calexico High School Culinary Date Prepared: 11/12/2018

CA Building Energy Standards - 2016 Nonresidential Compliance January 2016

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INDOOR LIGHTING - LIGHTING CONTROLS
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 Project Name: Calexico High School Culinary Date Prepared: 11/12/2018

CA Building Energy Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
 CERTIFICATE OF COMPLIANCE
 Certificate of Compliance - Indoor Lighting Power Allowance
 Project Name: Calexico High School Culinary Date Prepared: 11/12/2018

CA Building Energy Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
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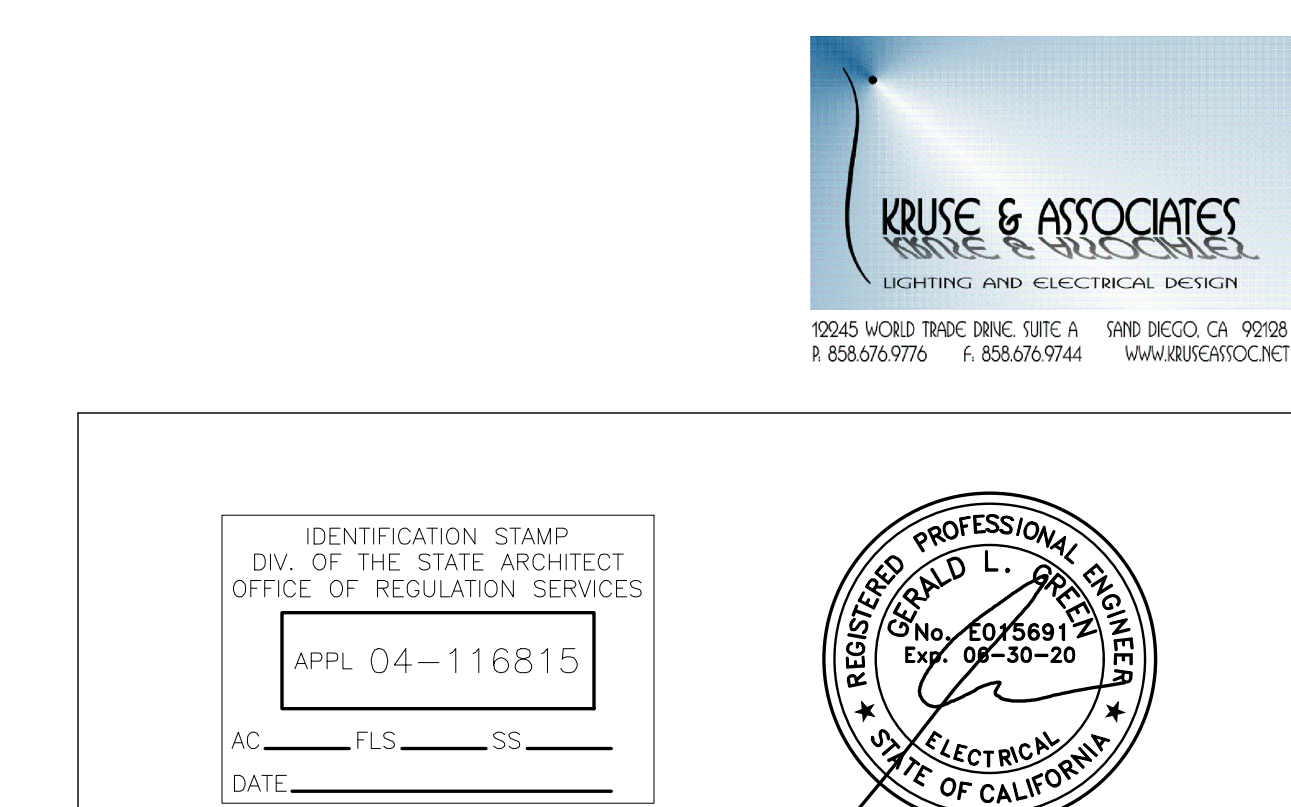
CA Building Energy Standards - 2016 Nonresidential Compliance April 2016

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Project Title
**CENTRAL UNION HIGH SCHOOL DISTRICT
 CALEXICO HIGH SCHOOL - CULINARY**

Sheet Title
TITLE 24

Document Date
 16-36CU

Date Last Revised
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Project Number
 16-36CU

Sheet Number
E5.1



CALEXICO HIGH SCHOOL CULINARY ARTS CLASSROOM MODERNIZATION FIRE ALARM SYSTEM

LEGENDS

FIRE ALARM SYMBOL LEGEND

QTY	SYMBOL	DESCRIPTION	BRAND	MODEL	BOX CODE	WIRE TYPE	CSFM #
PANELS & ANNUNCIATORS							
1	[FACP]	4100S FIRE ALARM CONTROL PANEL, 120 VAC (NODE-1) 2-33 AMP/HR BATTERIES	SIMPLEX	4100-9111 2081-9276	MFG		7165-00260251 N/A
1	[FACP]	4100S FIRE ALARM CONTROL PANEL, 120 VAC (NODE-4) 2-33 AMP/HR BATTERIES	SIMPLEX	4100-9311 2081-9276	MFG		7165-00260251 N/A
6	[KHSS]	KITCHEN HOOD	BY OTHERS	BY OTHERS			
INITIATING DEVICES							
5	[S]	ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR WITH STANDARD BASE	SIMPLEX	4098-9734 HEAD 4098-9792 BASE	4K 3C	M	7272-00260218 7300-00260217
5	[Y]	HI-TEMP HEAT SENSOR WITH WITH BASE W/REMOTE LED OUTPUT	SIMPLEX	4098-9734 HEAD 4098-9789 BASE	4K 1C	M L	7270-00260216 7300-00260217
4	[HSC]	HEAT SENSOR WITH CO SENSOR BASE	SIMPLEX	4098-9733 HEAD 4098-9770 BASE	4K 3C	M	7270-00260216 7300-00260330
5	[WPS]	ADDRESSABLE DUCT SMOKE DETECTOR WITH RELAY OUTPUT	SIMPLEX	4098-9756	MDW	M P	3240-00260241 7272-00260218
MODULES & RELAYS							
6	[IM]	INDIVIDUAL ADDRESSABLE MODULE	SIMPLEX	4090-9001	1F	M Z	7300-00260223
5	[ER]	ENCAPSULATED RELAY	AIR PRODUCTS	PAM-SD	1D	R	7300-10040101
NOTIFICATION APPLIANCES ** TAP ALL SPEAKERS AT 70.7 VOLTS **							
2	[S]	ADDRESSABLE STROBE, CEILING MOUNT, WHITE, FIRE, CLEAR LENS	SIMPLEX	49V0-APPLC	H	A	7125-00260371
4	[#W]	ADDRESSABLE WEATHERPROOF SPEAKER ONLY, WALL MOUNT	SIMPLEX	4950-APPLW-O	MFG	A S	7320-00260501
4	[#W]	ADDRESSABLE SPEAKER/STROBE, CEILING MOUNT, APPLIANCE ONLY, CLEAR LENS	SIMPLEX	495V-APPLC	4D	A S	7125-00260384
MISCELLANEOUS DEVICES							
5	[X]	REMOTE ALARM INDICATOR	SIMPLEX	2098-9808	1E		7300-00260150
	[JB]	JUNCTION BOX	BY OTHERS	BY OTHERS			FBO
1	[SS]	PARALLEL CONNECTED SURGE PROTECTIVE DEVICE	DITEK	DTX-120HW	NR		7300-21050102

BACKBOX CODES

CODE	BOX SPECIFICATIONS	CODE	BOX SPECIFICATIONS
4A	4" SQ. BOX 1 1/2" DEEP	1E	SINGLE GANG BOX 2 1/2" DEEP
4B	4" SQ. BOX 1 1/2" DEEP W/ COVER	1F	SINGLE GANG BOX 2 1/2" DEEP W/COVER
4C	4" SQ. BOX 1 1/2" DEEP W/ 1 1/2" EXT. RING	1G	SINGLE GANG BOX 2 3/4" DEEP
4D	4" SQ. BOX 2 1/8" DEEP	1H	SINGLE GANG BOX 3 1/2" DEEP
4E	4" SQ. BOX 2 1/8" DEEP W/ COVER	2A	DOUBLE GANG BOX 2" DEEP
4F	4" SQ. BOX 2 1/8" DEEP W/ 1 1/2" EXT. RING	2B	TWO GANG BOX 2 1/2" DEEP
4G	4" SQ. BOX 2 1/8" DEEP W/ SINGLE GANG COVER	2C	TWO GANG BOX 2 3/4" DEEP
4H	4" SQ. BOX 2 1/8" DEEP W/ TWO GANG COVER	3A	3 GANG BOX 2 1/2" DEEP
4J	4" SQ. BOX 2 1/2" DEEP	6A	6 SINGLE GANG BOXES 3 1/2" DEEP
4K	4" OCT. BOX 1 1/2" DEEP	6B	6 GANG BOX
4L	4" OCT. BOX 1 1/2" DEEP W/ 1 1/2" EXT. RING	6C	6 GANG BOX 2 1/2" DEEP
4M	4 11/16" SQ. BOX 2 1/8" DEEP	6D	6 GANG BOX 3 1/2" DEEP
4N	4 11/16" SQ. BOX 1 1/2" DEEP W/ 1 1/2" EXT. RING	FBO	FURNISHED BY OTHERS
4P	4 11/16" SQ. BOX 2 1/8" DEEP W/ 1 1/2" EXT. RING	MFG	SUPPLIED BY MANUFACTURER
4Q	4" SQ. BOX 1 1/2" DEEP W/4098-9832 ADAPTER	MDW	MOUNTS TO DUCTWORK
4R	4" SQ. BOX 1 1/2" DEEP W/4098-9832 ADAPTER	MBD	MOUNTS IN BOX BEHIND DETECTOR
4S	4" SQ. BOX 1 1/2" DEEP W/4098-9863 ADAPTER	WM	WALL MOUNT
1A	SINGLE GANG BOX 1 1/2" DEEP	DT	DEAR TOP MOUNT
1B	SINGLE GANG BOX 2" DEEP	DS	REFER TO PRODUCT DATASHEET
1C	SINGLE GANG BOX 2 1/8" DEEP	NR	NO BACKBOX REQUIRED
1D	SINGLE GANG BOX 2 1/8" DEEP W/COVER	TRM	3.5" WIDE SNAP TRACK W/MOUNTING SCREWS

FOR ADDITIONAL BACK BOX OPTIONS, REFER TO THE XX-100 SERIES DRAWINGS OR PRODUCT DATA SHEETS AND INSTALLATION INSTRUCTIONS.

FIRE ALARM WIRE LIST

CIRCUIT DESCRIPTION	CONSTRUCTION	GAUGE	CIRCUIT PROPERTIES	ACCEPTABLE CABLE TYPES			
				PLR	TRN	TRN	OUTDOOR
A ADDRESSABLE NOTIFICATION	UTP SOLID	14 AWG	60p/ft. MAX CAPACITANCE 3 twists/ft. RECOMMENDED	X	X		
B RULI- COMMUNICATION	UTP SOLID	18 AWG	60p/ft. MAX CAPACITANCE 3 twists/ft. RECOMMENDED	X	X		
K REMOTE TEST SWITCH/LED	(2) 2 COND. SOLID	14 AWG		X	X	X	
M IDNET	UTP SOLID	18 AWG		X	X		
N RS-485 COMMUNICATION	TSP SOLID	18 AWG	58p/ft. MAX CAPACITANCE	X	X		
P POWER	2 COND. SOLID	14 AWG		X	X	X	
R RELAY	2 COND. SOLID	14 AWG		X	X	X	
S AUDIO	UTP SOLID	18 AWG	30p/ft. MAX CAPACITANCE RECOMMENDED	X	X		
M IDNET/MAPNET CIRCUIT - OUTDOOR	TSP SOLID	18 AWG	DIRECT BURIAL/UNDERGROUND IN CONDUIT/AERIAL**		X		X
NH RS-485 COMMUNICATION - OUTDOOR	TSP SOLID	18 AWG	DIRECT BURIAL/UNDERGROUND IN CONDUIT/AERIAL**		X		X
Pb VISUAL SIGNAL - OUTDOOR	TSP SOLID	14 AWG	DIRECT BURIAL/UNDERGROUND IN CONDUIT/AERIAL**		X		X
Sb AUDIO CIRCUIT - OUTDOOR	TSP SOLID	18 AWG	DIRECT BURIAL/UNDERGROUND IN CONDUIT/AERIAL**				X
CONDUIT SIZE MAX CONDUCTOR AREA CONDUIT SIZE MAX CONDUCTOR AREA NOTES							
1/2"	0.12 SQ INCH*	1-1/4"	0.80 SQ INCH*	*80% FULL PER N.E.C.			
3/4"	0.21 SQ INCH*	2"	1.34 SQ INCH*	SUBSCRIBER'S UNSHIELDED CABLES MIXED WITH SHIELDED CABLES OF SAME CIRCUIT DESIGNATION.			
1"	0.34 SQ INCH*	2"	1.34 SQ INCH*				
**OUTDOOR AERIAL CABLE REQUIRES MESSENGER							
ITEMS SUCH AS CAPACITANCE BETWEEN CONDUCTORS AND WIRE GAUGE CAN BE CRUCIAL TO THE CIRCUIT DESIGN OF THIS SYSTEM. INSTALLATION, THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR SELECTING AND INSTALLING CABLE MANUFACTURER AND MODEL THAT MEETS OR EXCEEDS THE ABOVE REQUIREMENTS. RECOMMENDED CABLE MANUFACTURERS AND MODEL NUMBERS ARE AVAILABLE UPON REQUEST.							

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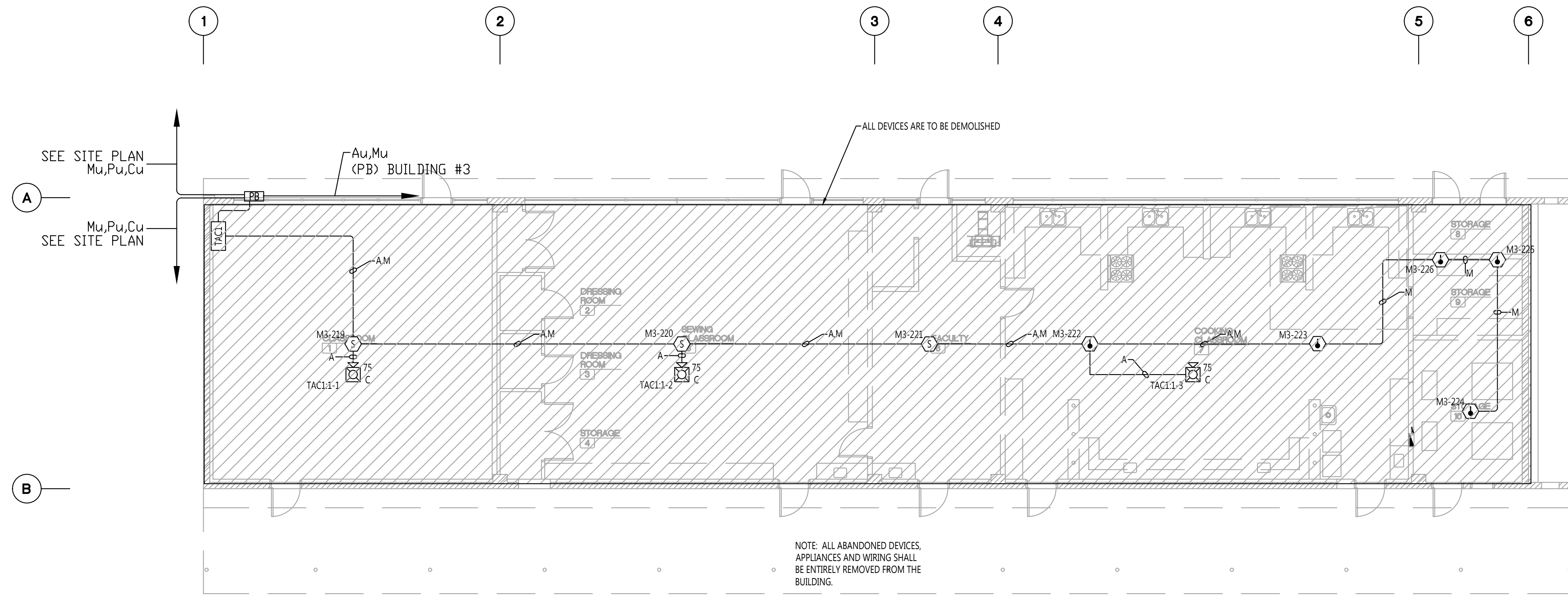
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Project Title
**CALEXICO UNIFIED SCHOOL DISTRICT
CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

INFO SHEET

	Document Date 09-12-18	Project Number 18-25CX
	Date Last Revised	Sheet Number FA-002



DEMOLITION FLOOR PLAN

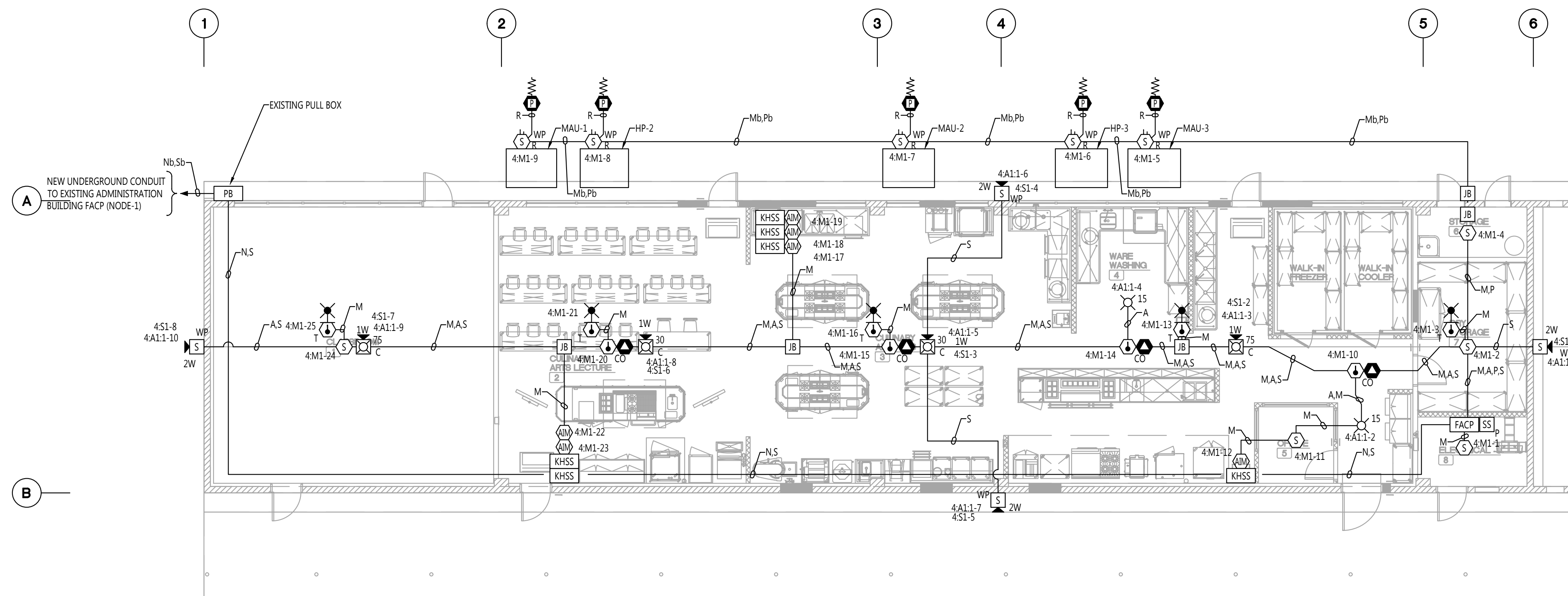
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. ALL CEILINGS ARE ASSUMED TO BE 10' A.F.F. SMOOTH CONSTRUCTION UNLESS NOTED OTHERWISE.
2. TAP ALL SPEAKERS AT 0.5W UNLESS NOTED OTHERWISE.
3. SET ALL SPEAKER VOLTAGE JUMPS TO THE 70.7V SETTING.
4. THE DEVICE ADDRESSES INDICATED ON THESE DRAWINGS ARE AN ALPHANUMERIC DESCRIPTION OF WHICH CIRCUIT THE DEVICE IS LOCATED ON. DEVICES MAY BE ASSIGNED A DIFFERENT NUMBER WITHIN THE PANEL PROGRAM. CONSULT WITH A JOHNSON CONTROLS TECHNICIAN BEFORE APPLYING A PHYSICAL LABEL TO ANY DEVICES.

KEYNOTES:

TYPE KEYNOTE TEXT HERE.



FIRE ALARM PLAN

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

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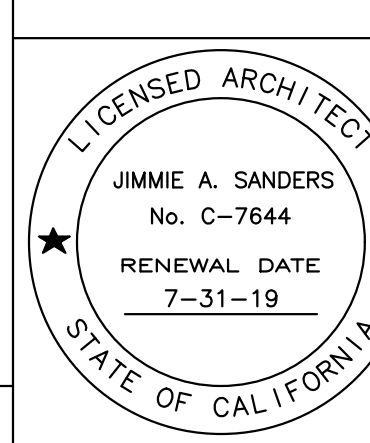
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CALEXICO UNIFIED SCHOOL DISTRICT
CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION

Sheet Title
DEVICE PLACEMENT PLAN

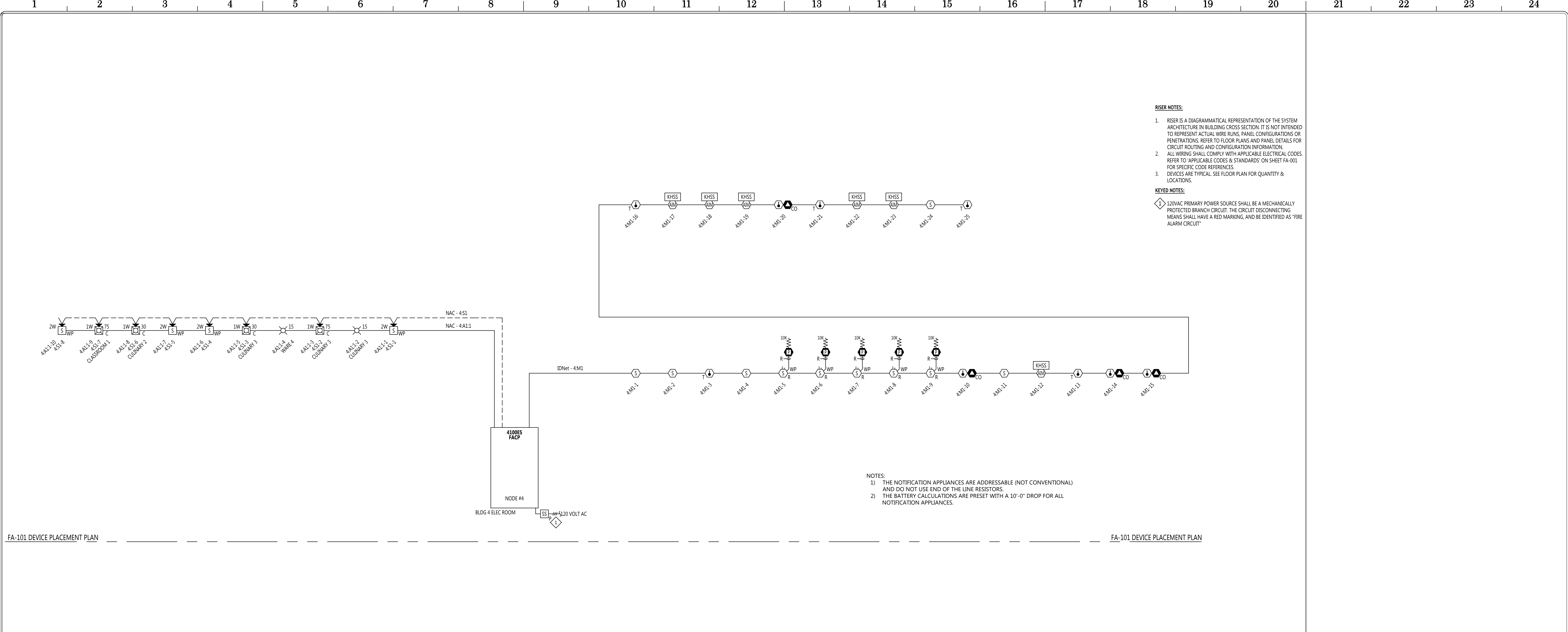


Document Date
09-12-18

Date Last Revised

Project Number
12-25CX

Sheet Number
FA-101



- RISER NOTES:**
1. RISER IS A DIAGRAMMATICAL REPRESENTATION OF THE SYSTEM ARCHITECTURE IN BUILDING CROSS SECTION. IT IS NOT INTENDED TO REPRESENT ACTUAL WIRE RUNS, PANEL CONFIGURATIONS OR PENETRATIONS. REFER TO FLOOR PLANS AND PANEL DETAILS FOR CIRCUIT ROUTING AND CONFIGURATION INFORMATION.
 2. ALL WIRING SHALL COMPLY WITH APPLICABLE ELECTRICAL CODES. REFER TO APPLICABLE CODES & STANDARDS ON SHEET FA-001 FOR SPECIFIC CODE REFERENCES.
 3. DEVICES ARE TYPICAL. SEE FLOOR PLAN FOR QUANTITY & LOCATIONS.
- KEYED NOTES:**
- ① 120VAC PRIMARY POWER SOURCE SHALL BE A MECHANICALLY PROTECTED BRANCH CIRCUIT. THE CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING, AND BE IDENTIFIED AS "FIRE ALARM CIRCUIT"

- NOTES:**
- 1) THE NOTIFICATION APPLIANCES ARE ADDRESSABLE (NOT CONVENTIONAL) AND DO NOT USE END OF THE LINE RESISTORS.
 - 2) THE BATTERY CALCULATIONS ARE PRESET WITH A 10'-0" DROP FOR ALL NOTIFICATION APPLIANCES.

FA-101 DEVICE PLACEMENT PLAN

FIRE ALARM RISER DIAGRAM

FA-101 DEVICE PLACEMENT PLAN

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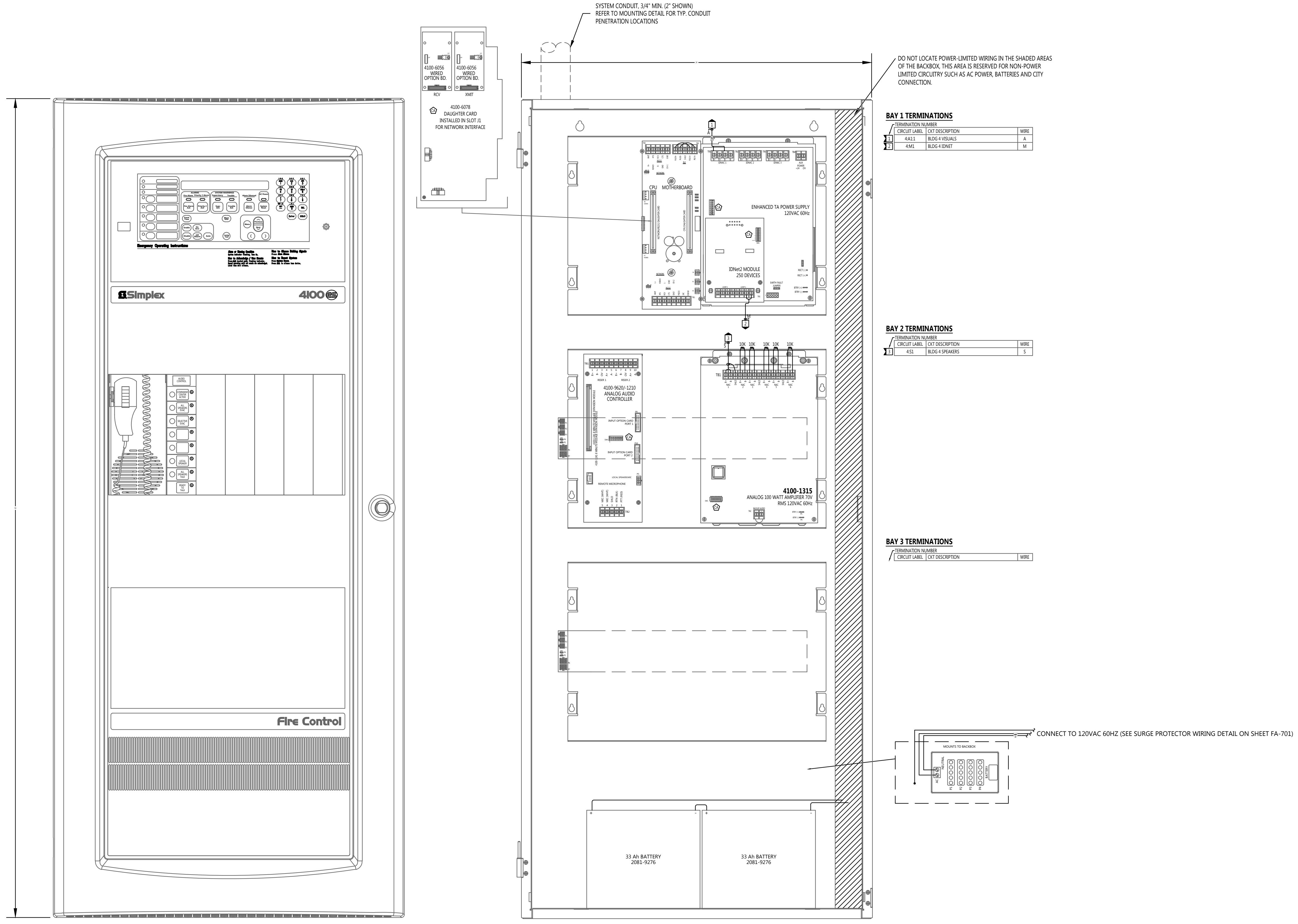
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Sheet Title
RISER DIAGRAM

	Document Date 09-12-18	Project Number 18-25CX
	Date Last Revised	Sheet Number FA-201



FIRE ALARM CONTROL PANEL
CABINET #1 - FIRST FLOOR
ELECTRICAL #8 SCALE: NTS

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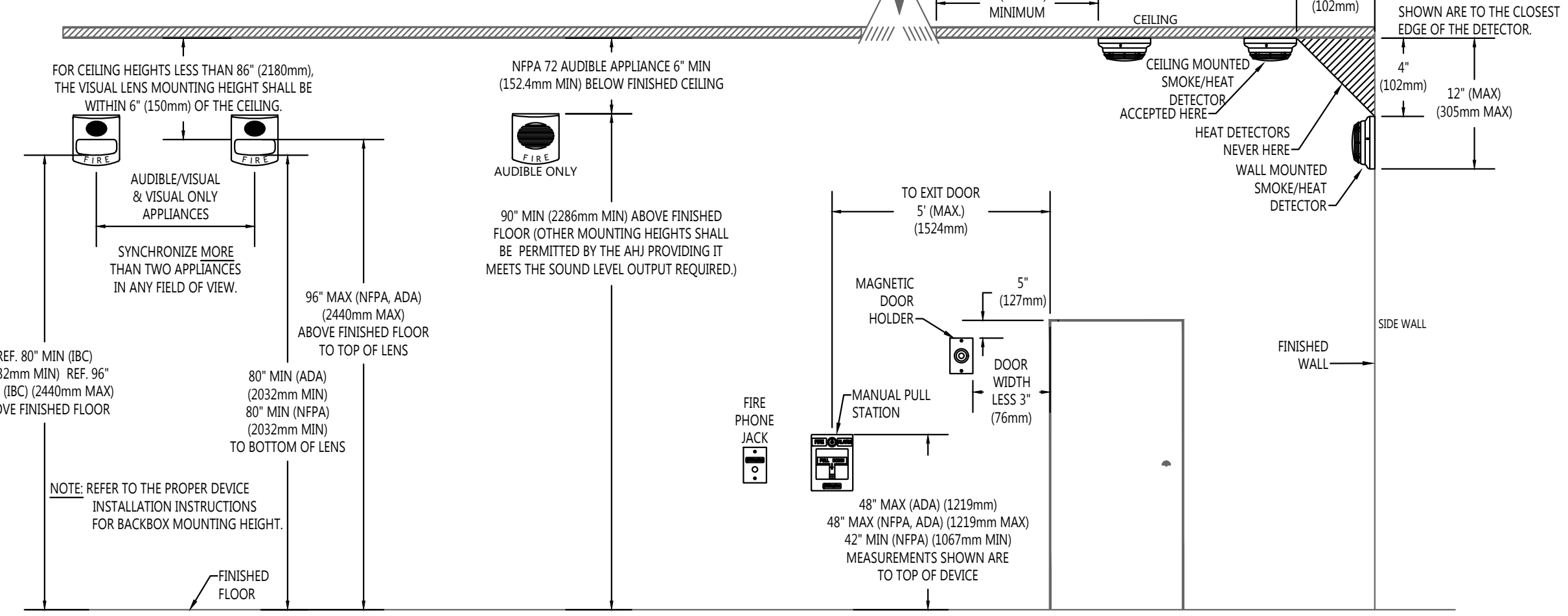
Sheet Title
PANEL DETAILS

	Document Date 09-12-18	Project Number 18-25CX
	Date Last Revised	Sheet Number FA-501

DEVICE MOUNTING HEIGHT REFERENCE

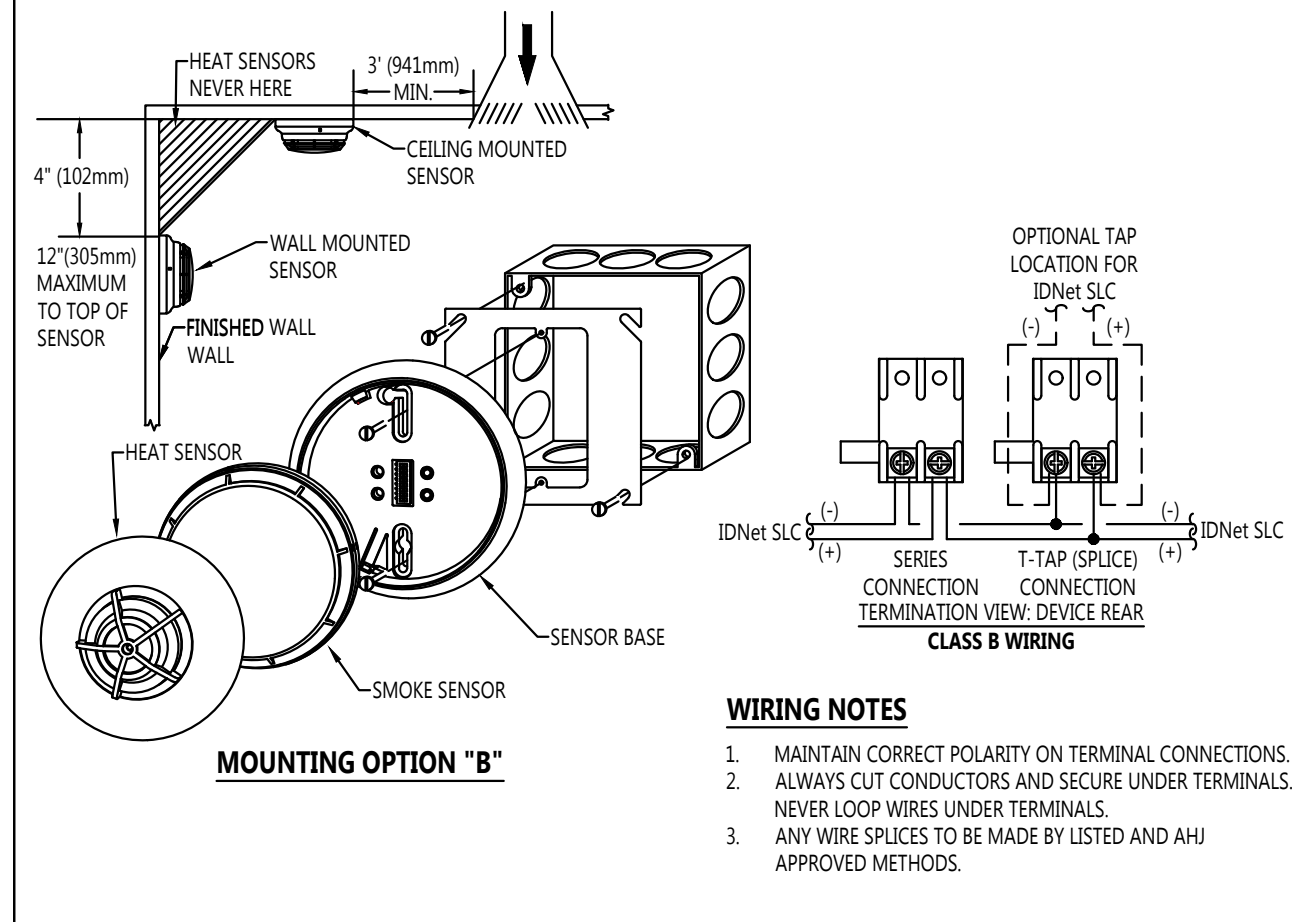
PER NFPA 72

- VISUAL APPLIANCE MOUNTING HEIGHT CONSIDERATIONS IN SLEEPING ROOMS
- MIN DISTANCE IN SLEEPING ROOMS IS 24" (610mm) FROM CEILING TO TOP OF LENS FOR 177CD STROBES WITHIN 6' OF THE FELLOW
 - 177CD STROBES, USED IN SLEEPING ROOMS, CAN BE WITHIN THE 24" (610mm) MINIMUM DISTANCE FROM THE CEILING. THE HIGHER INTENSITY IS TO COMPENSATE FOR A POSSIBLE SMOKE LAYER.



STANDARD SENSOR BASE

SIMPLEX 4098-9792

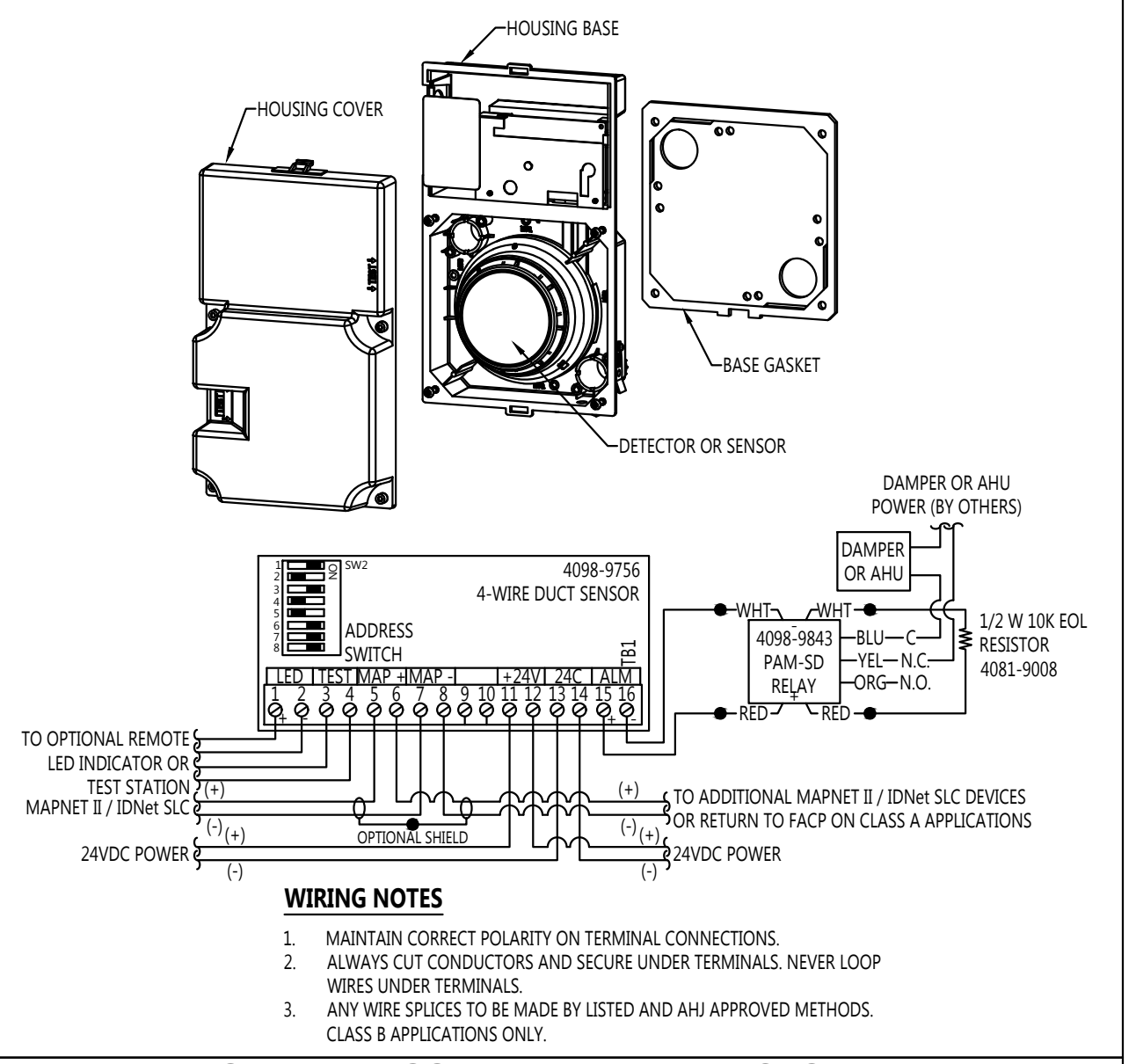


OPTION	DESCRIPTION	NOTE
A	SINGLE GANG BOX, 2-1/8" (54mm) DEEP	BY OTHERS
B	4" (102mm) SQUARE BOX, 1-1/2" (38mm) DEEP (MIN)	BY OTHERS
C	W/ SINGLE GANG COVER PLATE 3/4" (19mm) EXTENSION	BY OTHERS
D	4" (102mm) OCTAGONAL BOX, 1-1/2" (38mm) DEEP, MINIMUM	BY OTHERS
E	4" (102mm) SQUARE BOX, 1-1/2" (38mm) DEEP (MIN) W/ SIMPLEX 4098-9832 ADAPTER KIT	BOX BY OTHER, 4098-9832 ORDERED SEPARATELY

1. FOR ADDITIONAL MOUNTING OPTIONS, DOWNLOAD DATA SHEET 4098-0019 FROM HTTP://WWW.SIMPLEX-FIRE.COM

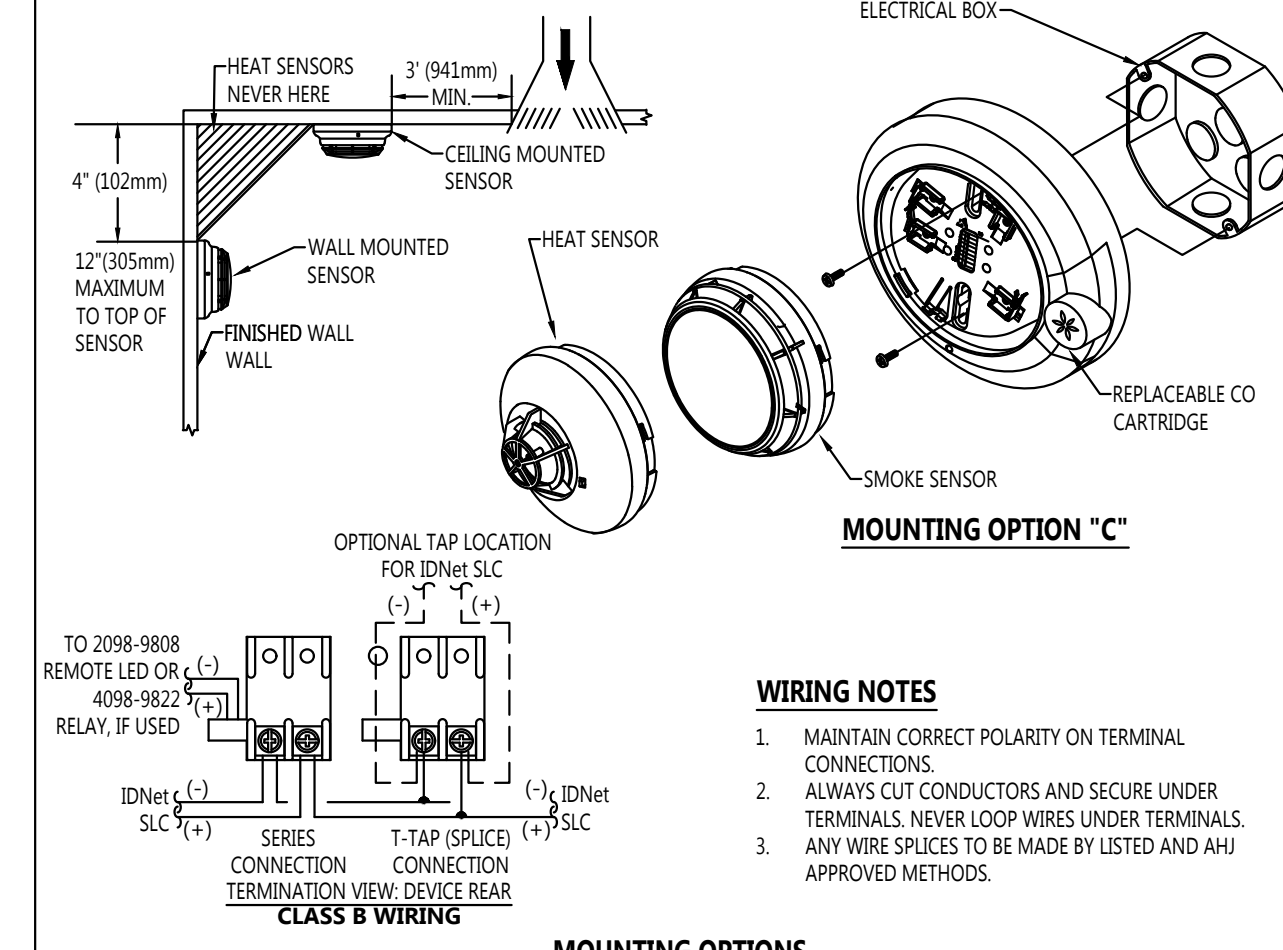
DUCT SMOKE DETECTOR

SIMPLEX 4098-9756 ANALOG 4-WIRE DUCT SENSOR WITH 24VDC RELAY



CARBON MONOXIDE SENSOR BASE

SIMPLEX 4098-9770

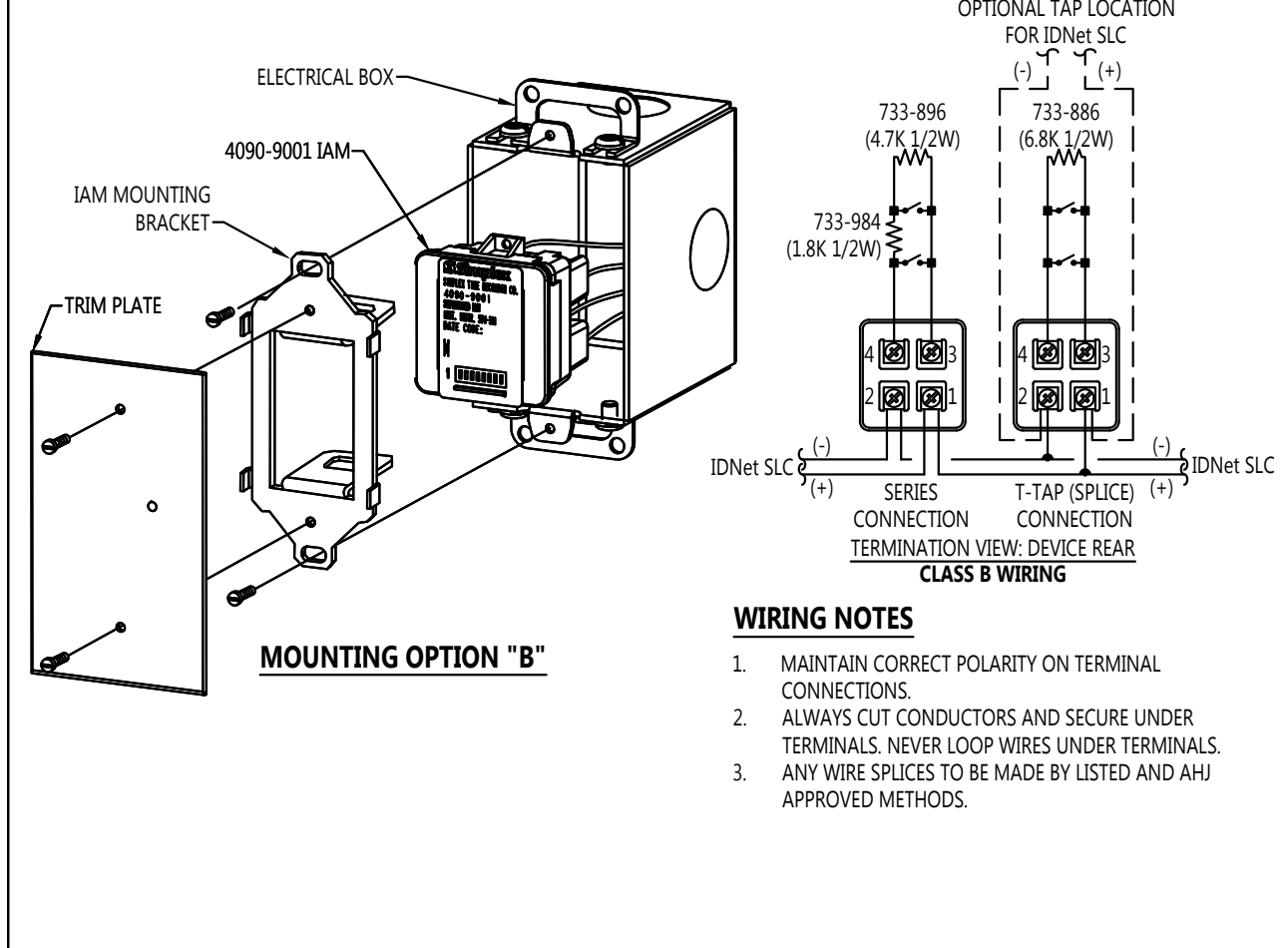


OPTION	DESCRIPTION	NOTE
A	SINGLE GANG BOX, 2-1/8" (54mm) DEEP	BY OTHERS
B	4" (102mm) SQUARE BOX, 1-1/2" (38mm) DEEP (MIN)	BY OTHERS
C	W/ SINGLE GANG COVER PLATE 3/4" (19mm) EXTENSION	BY OTHERS
D	4" (102mm) OCTAGONAL BOX, 1-1/2" (38mm) DEEP, MINIMUM	BY OTHERS
E	4" (102mm) SQUARE BOX, 1-1/2" (38mm) DEEP (MIN) W/ SIMPLEX 4098-9832 ADAPTER KIT	BOX BY OTHER, 4098-9832 ORDERED SEPARATELY

1. FOR ADDITIONAL MOUNTING OPTIONS, DOWNLOAD DATA SHEET 4098-0019 FROM HTTP://WWW.SIMPLEX-FIRE.COM

ADDRESSABLE INPUT MODULE

SIMPLEX 4099-9001 (IAM)

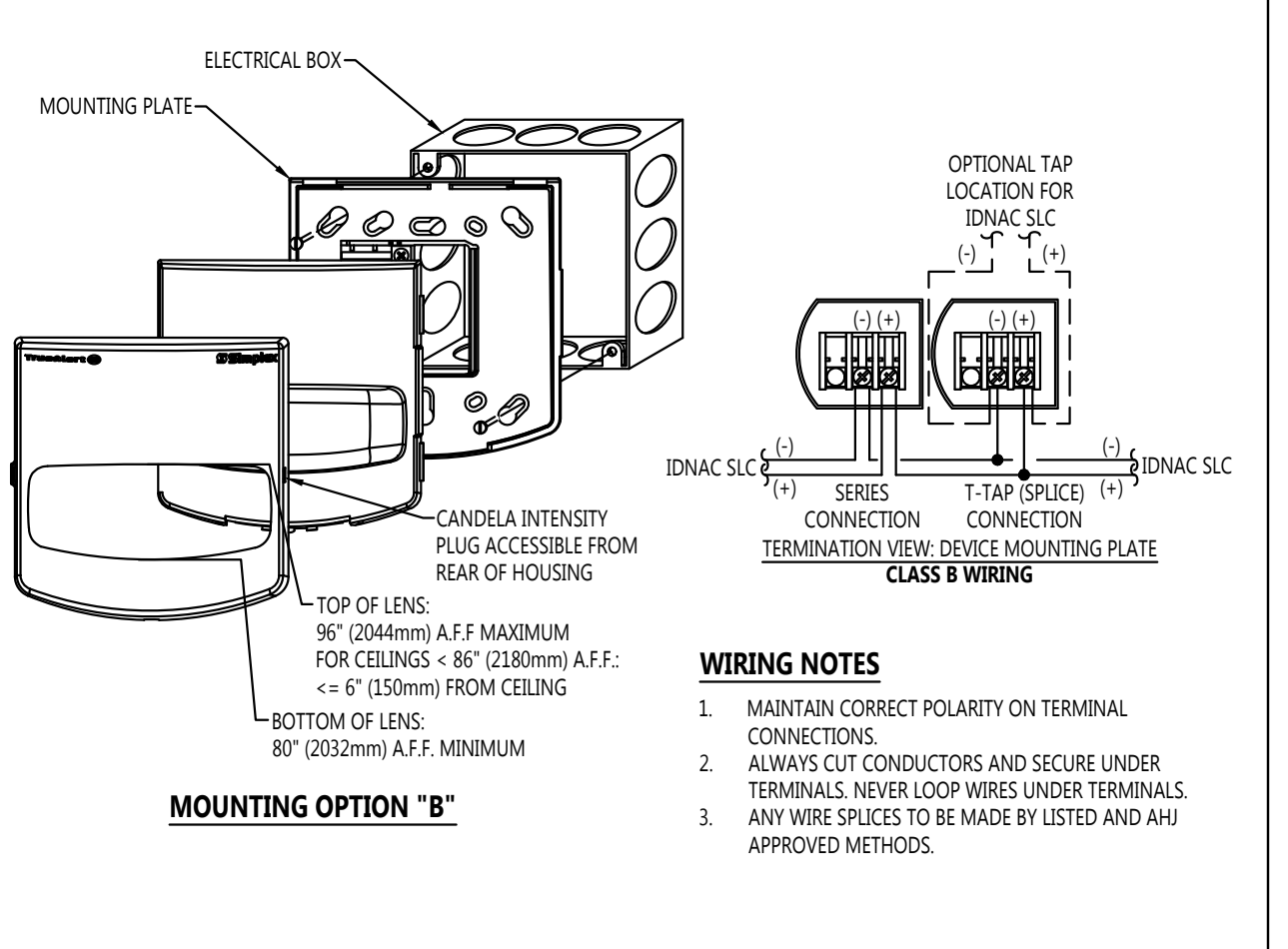


OPTION	DESCRIPTION	NOTE
A	SINGLE GANG BOX, 2-1/2" (64mm) DEEP WITH SINGLE GANG COVER PLATE	BY OTHERS
B	SINGLE GANG BOX, 2-1/2" (64mm) DEEP WITH SIMPLEX 4099-9810 IAM MOUNTING BRACKET AND SIMPLEX 4099-9808 TRIM PLATE FOR 3M FLUSH MOUNTED BOX	BOX BY OTHERS, PLATES ORDERED SEPARATELY
C	SINGLE GANG BOX, 2-1/2" (64mm) DEEP WITH SIMPLEX 4099-9810 IAM MOUNTING BRACKET AND SIMPLEX 4099-9807 TRIM PLATE FOR SURFACE MOUNTED BOX	BOX BY OTHERS, PLATES ORDERED SEPARATELY

1. FOR ADDITIONAL MOUNTING OPTIONS, DOWNLOAD DATA SHEET 4099-0001 FROM HTTP://WWW.SIMPLEX-FIRE.COM

TrueAlert ES ADDRESSABLE APPLIANCES

SIMPLEX 4900 SERIES WALL MOUNTED VISUAL ONLY

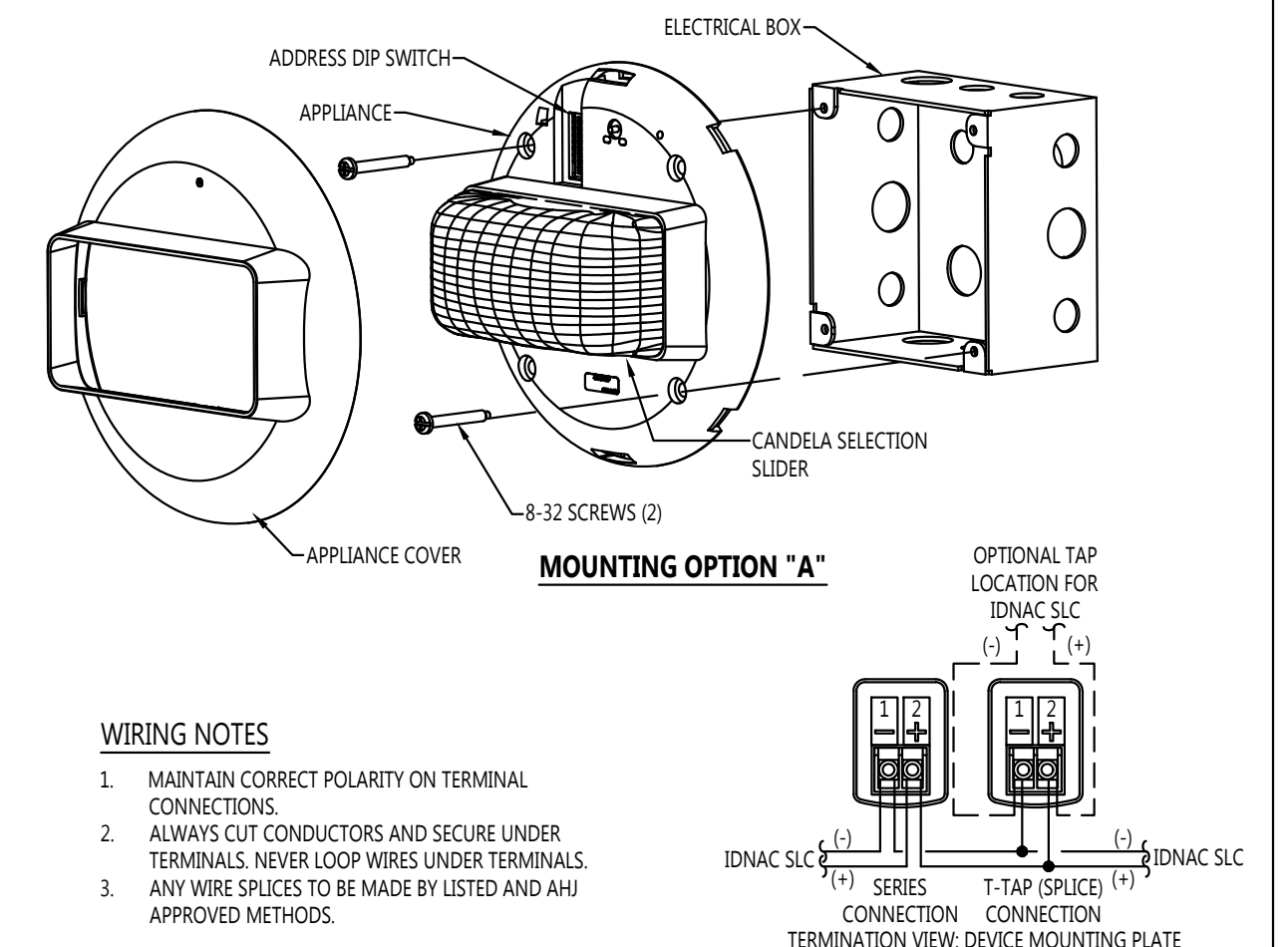


OPTION	DESCRIPTION	NOTE
A	SINGLE GANG OR DOUBLE GANG BOX, 1-1/2" (38mm) DEEP (MIN)	BY OTHERS
B	4" (102mm) SQUARE BOX, 1-1/2" (38mm) DEEP (MIN)	BY OTHERS
C	SIMPLEX 2975-9145, 7-7/8" x 5-1/8" x 2-3/4"	ORDERED SEPARATELY

1. FOR ADDITIONAL MOUNTING OPTIONS, DOWNLOAD DATA SHEET 5490-0001 FROM HTTP://WWW.SIMPLEX-FIRE.COM

TrueAlert ES ADDRESSABLE APPLIANCES

SIMPLEX 4900 SERIES CEILING MOUNTED VISUAL ONLY

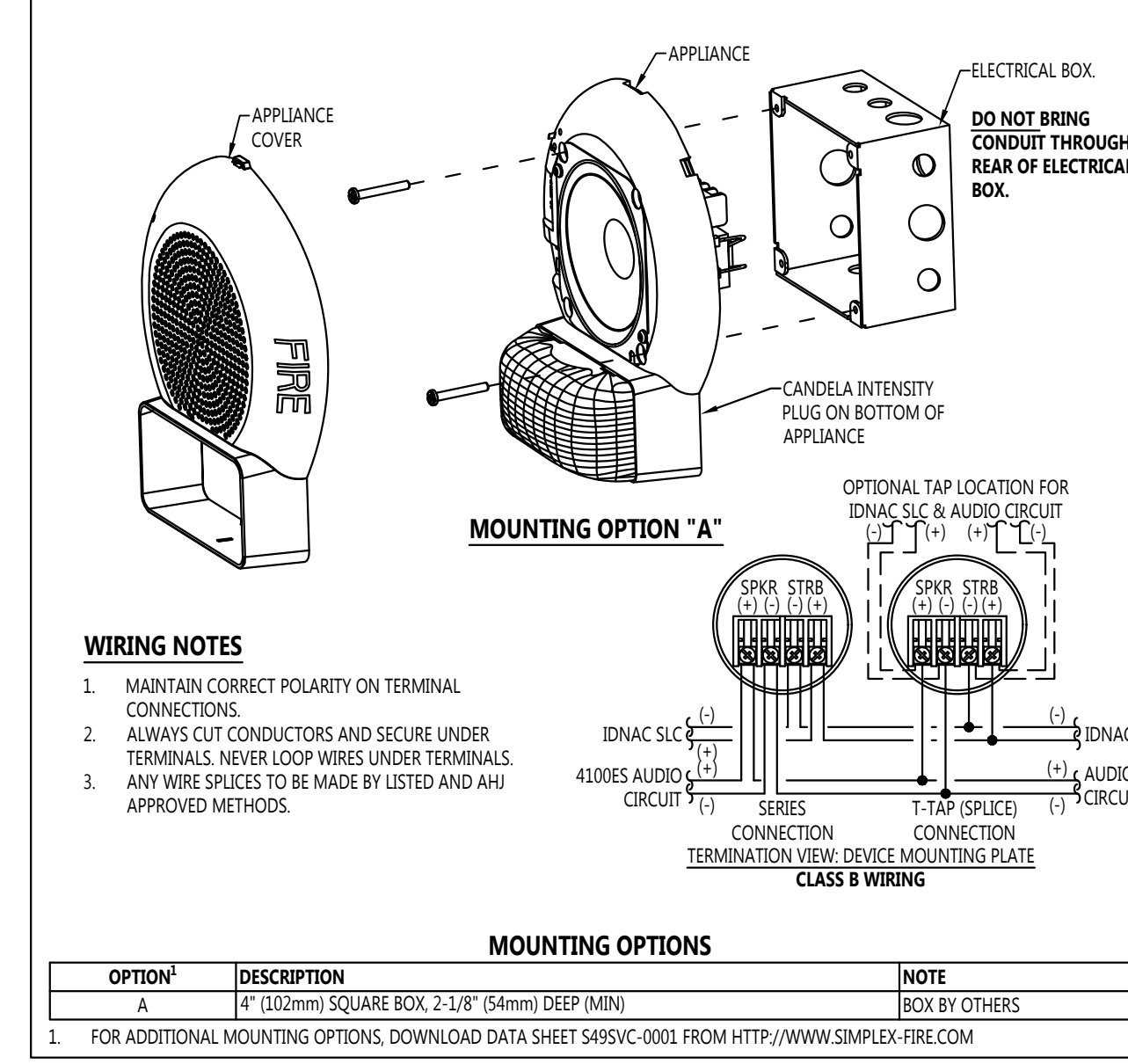


OPTION	DESCRIPTION	NOTE
A	4" SQUARE ELECTRICAL BOX, 1-1/2" (38mm) MINIMUM DEPTH	BY OTHERS
B	SINGLE GANG ELECTRICAL BOX, 1-1/2" (38mm) MINIMUM DEPTH, WITH 4900-APCS ADAPTER PLATE	BOX BY OTHERS, SIMPLEX ADAPTER PLATE

1. FOR ADDITIONAL MOUNTING OPTIONS, DOWNLOAD DATA SHEET 5490C-0001 FROM HTTP://WWW.SIMPLEX-FIRE.COM

TrueAlert ES ADDRESSABLE APPLIANCES

SIMPLEX 495V SERIES CEILING MOUNTED SPEAKER / VISUAL

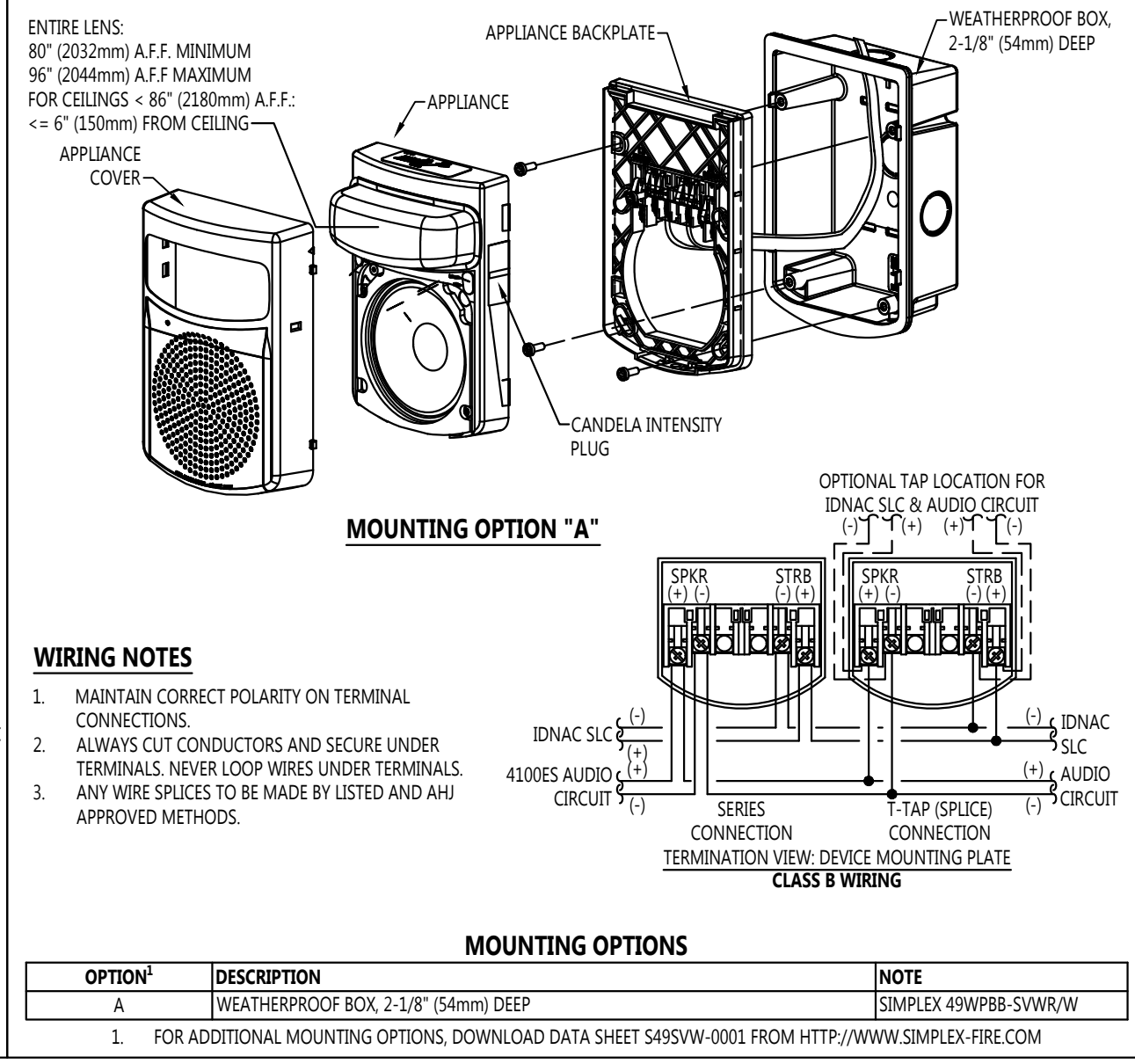


OPTION	DESCRIPTION	NOTE
A	4" (102mm) SQUARE BOX, 2-1/8" (54mm) DEEP (MIN)	BOX BY OTHERS

1. FOR ADDITIONAL MOUNTING OPTIONS, DOWNLOAD DATA SHEET 5495V-0001 FROM HTTP://WWW.SIMPLEX-FIRE.COM

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SIMPLEX 495V SERIES WALL MOUNTED WEATHERPROOF SPEAKER / VISUAL

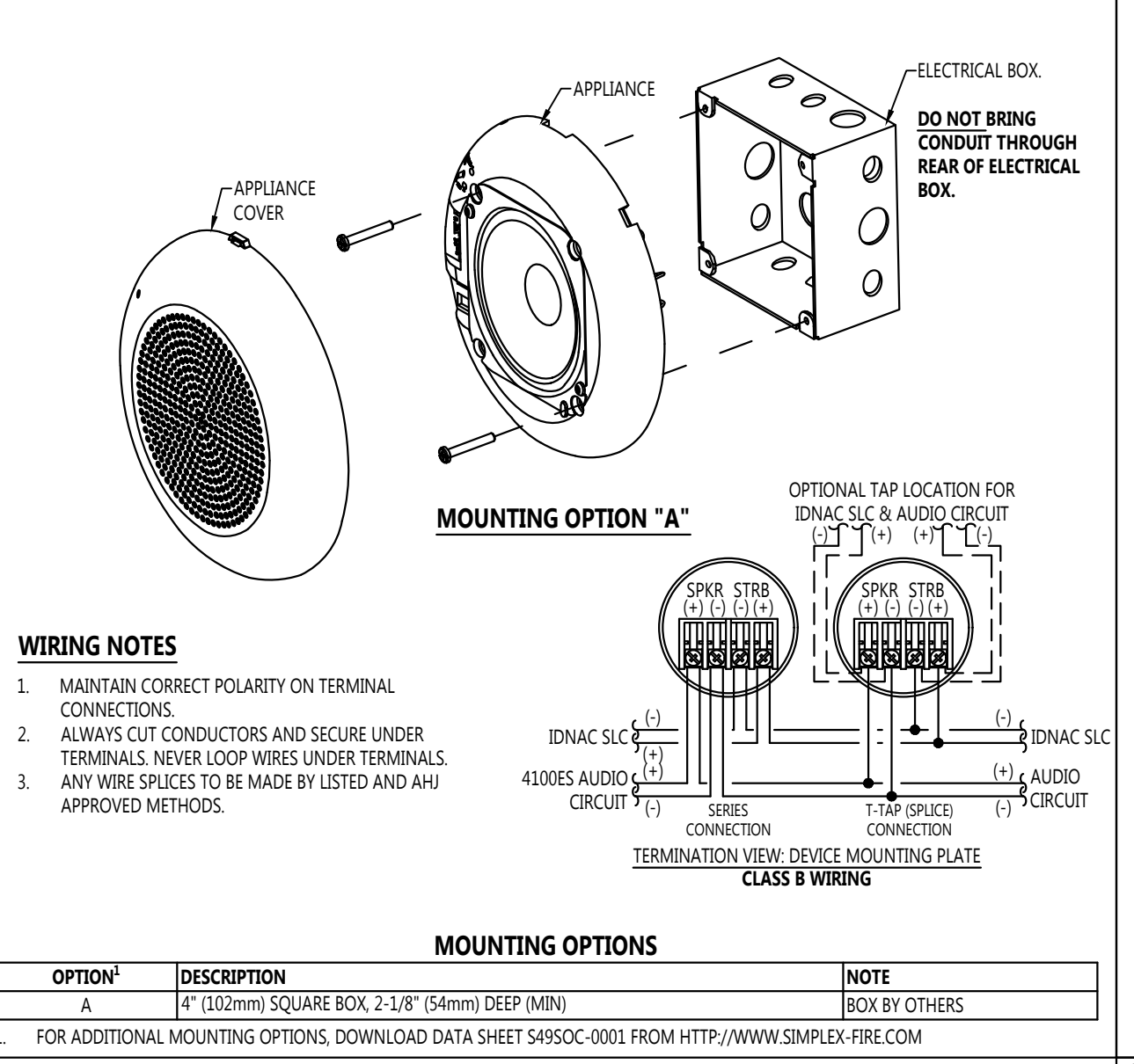


OPTION	DESCRIPTION	NOTE
A	WEATHERPROOF BOX, 2-1/8" (54mm) DEEP	SIMPLEX 495VWB-50R/W

1. FOR ADDITIONAL MOUNTING OPTIONS, DOWNLOAD DATA SHEET 5495VW-0001 FROM HTTP://WWW.SIMPLEX-FIRE.COM

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SIMPLEX 4950 SERIES CEILING MOUNTED SPEAKER

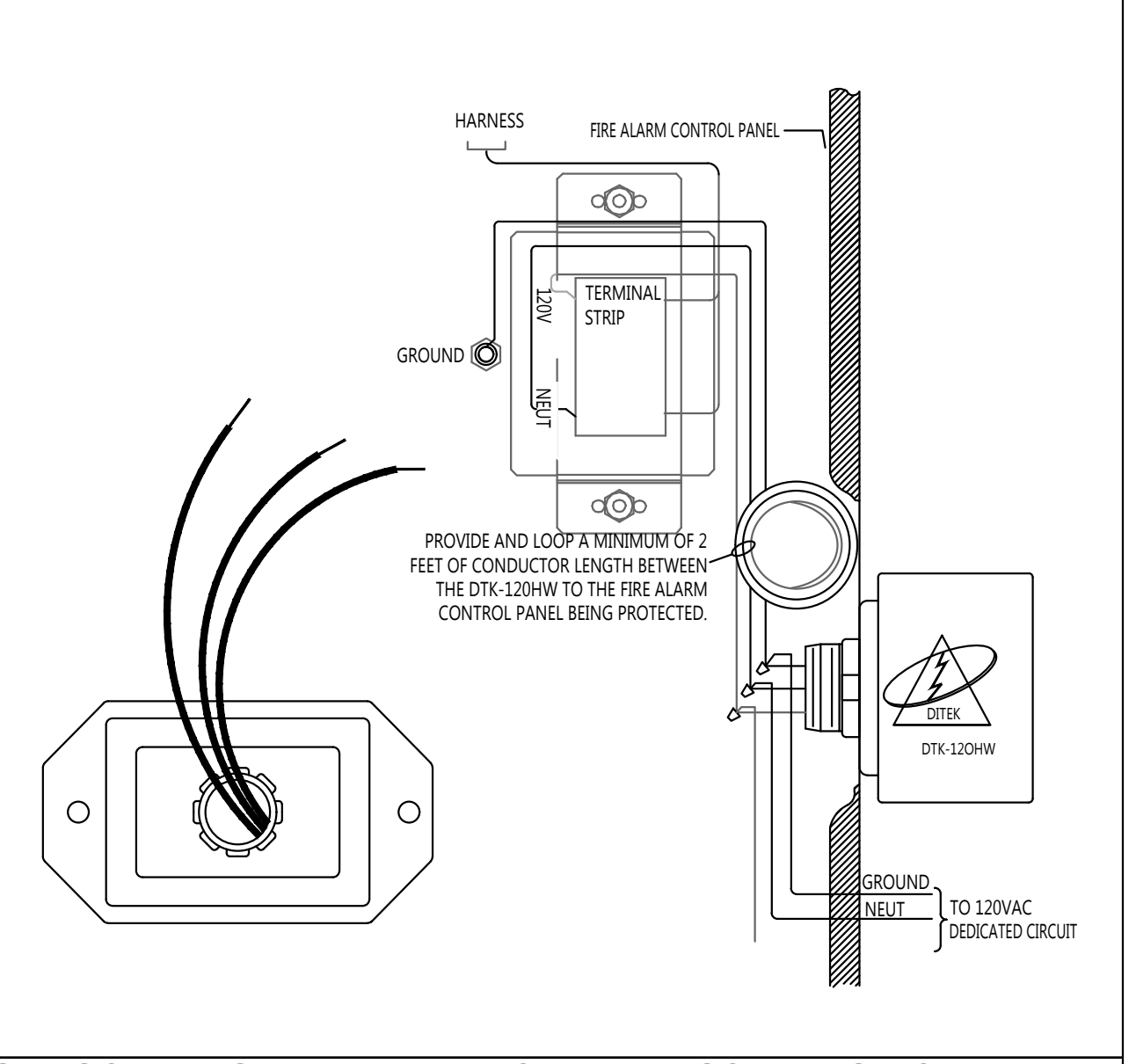


OPTION	DESCRIPTION	NOTE
A	4" (102mm) SQUARE BOX, 2-1/8" (54mm) DEEP (MIN)	BOX BY OTHERS

1. FOR ADDITIONAL MOUNTING OPTIONS, DOWNLOAD DATA SHEET 54950C-0001 FROM HTTP://WWW.SIMPLEX-FIRE.COM

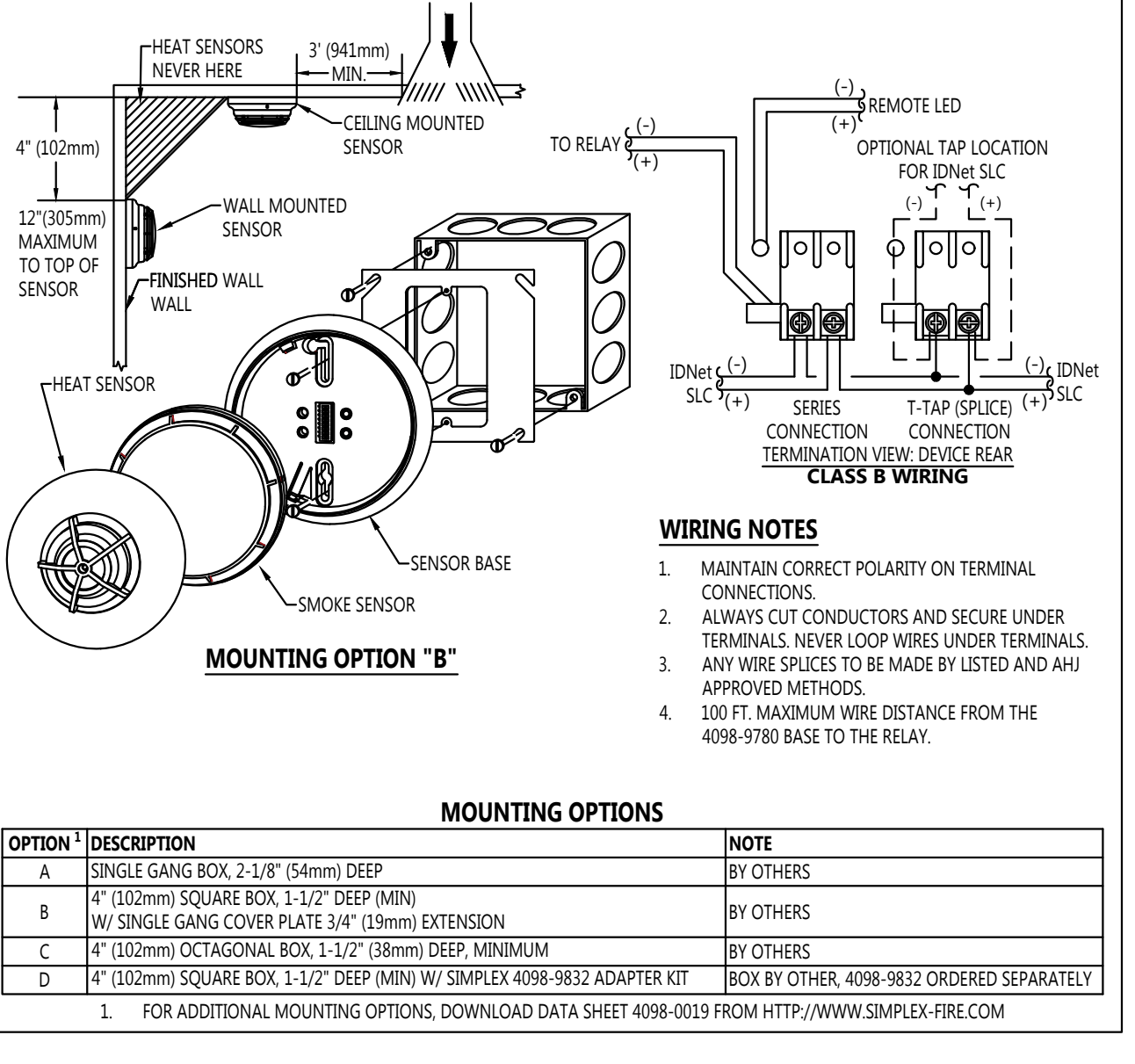
PARALLEL CONNECTED SURGE PROTECTOR

DITEK DTK-120HW



SENSOR BASE WITH REMOTE LED CONNECTION

SIMPLEX 4098-9789



OPTION	DESCRIPTION	NOTE
A	SINGLE GANG BOX, 2-1/8" (54mm) DEEP	BY OTHERS
B	4" (102mm) SQUARE BOX, 1-1/2" (38mm) DEEP (MIN)	BY OTHERS
C	W/ SINGLE GANG COVER PLATE 3/4" (19mm) EXTENSION	BY OTHERS
D	4" (102mm) OCTAGONAL BOX, 1-1/2" (38mm) DEEP, MINIMUM	BY OTHERS
E	4" (102mm) SQUARE BOX, 1-1/2" (38mm) DEEP (MIN) W/ SIMPLEX 4098-9832 ADAPTER KIT	BOX BY OTHER, 4098-9832 ORDERED SEPARATELY

1. FOR ADDITIONAL MOUNTING OPTIONS, DOWNLOAD DATA SHEET 4098-0019 FROM HTTP://WWW.SIMPLEX-FIRE.COM

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APPROVALS

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Architecture/Engineering

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Project Title
**CALEXICO UNIFIED SCHOOL DISTRICT
CALEXICO HS CULINARY ARTS CLASSROOM MODERNIZATION**

Sheet Title
DEVICE DETAILS

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