



Revision	Description	Date

Revision	Description	Date

Job No.	27082.30
Date	10.10.08
Drawn by	DT, RF
Checked by	SM
Scale	AS SHOWN

LEGEND

- ACCESSIBLE PATH OF TRAVEL. SLOPES SHALL NOT EXCEED 5.0% IN DIRECTION OF TRAVEL. AND CROSS SLOPES SHALL NOT EXCEED 2%.
- RAMPS SHALL NOT EXCEED 8.33% SLOPE IN DIRECTION OF TRAVEL.
- ◆ BUILDING ELEVATOR. SEE BUILDING PLANS.
- BUILDING RESTROOM. SEE BUILDING PLANS.
- ⊙ ACCESSIBLE ROUTE SIGN. SEE DETAIL 11 L4.03
- * SITE DIRECTORY SIGN (INCLUDES CAMPUS MAP WHICH SHOWS ACCESSIBLE ROUTE)

PARKING ANALYSIS

- STRATEGY:
- PROVIDE ACCESSIBLE PARKING FOR THE ENTIRE CAMPUS THAT EXCEEDS THE QUANTITY SPECIFIED BY CODE.
- ACCESSIBLE PARKING QUANTITIES ARE BASED ON THE TOTAL NUMBER OF PARKING SPACES ON CAMPUS, NOT ON INDIVIDUAL PARKING LOT QUANTITIES.
- ACCESSIBLE SPACES WILL BE DISTRIBUTED TO SERVE EACH SECTOR / ELEVATION OF CAMPUS, AND WILL BE LOCATED AS CLOSE TO THE ACTIVITY CENTERS AS POSSIBLE.

NORTH GATEWAY PACKAGE N.I.C.

LOT	PROPOSED PARKING SPACES	ACCESSIBLE STANDARD	PARKING SPACES VAN
BASE BID			
9	203	5	1
11	218	0	0
ALT BID 2	269	0	1
10			
TOTAL	690	5	2

SITE PACKAGE

LOT	PROPOSED PARKING SPACES	ACCESSIBLE STANDARD	PARKING SPACES VAN
1	527	7	1
2	697	5	1
3	167	10	2
5	50	1	1
6	77	3	1
7	114	4	2
12	15	1	
13	17		
14	177	4	1
15	556		
16	670		
17	88	3	1
18	84		
19	28		
20	27	1	1
21	35	2	1
22	53	2	1
24	2	1	
27	78	7	2
TOTAL	3,440	51	14

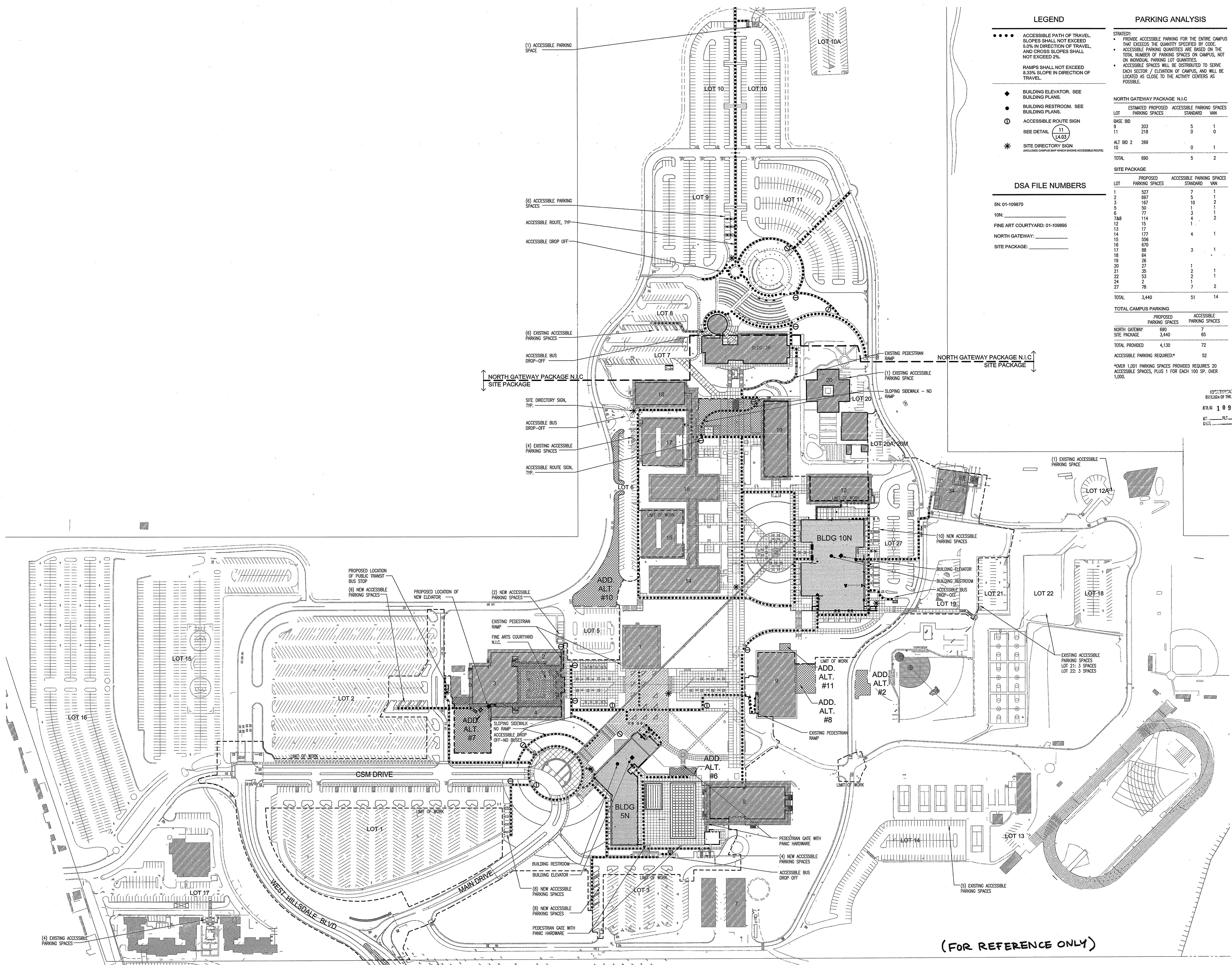
TOTAL CAMPUS PARKING

PROPOSED PARKING SPACES	ACCESSIBLE PARKING SPACES
NORTH GATEWAY	690
SITE PACKAGE	3,440
TOTAL PROVIDED	4,130

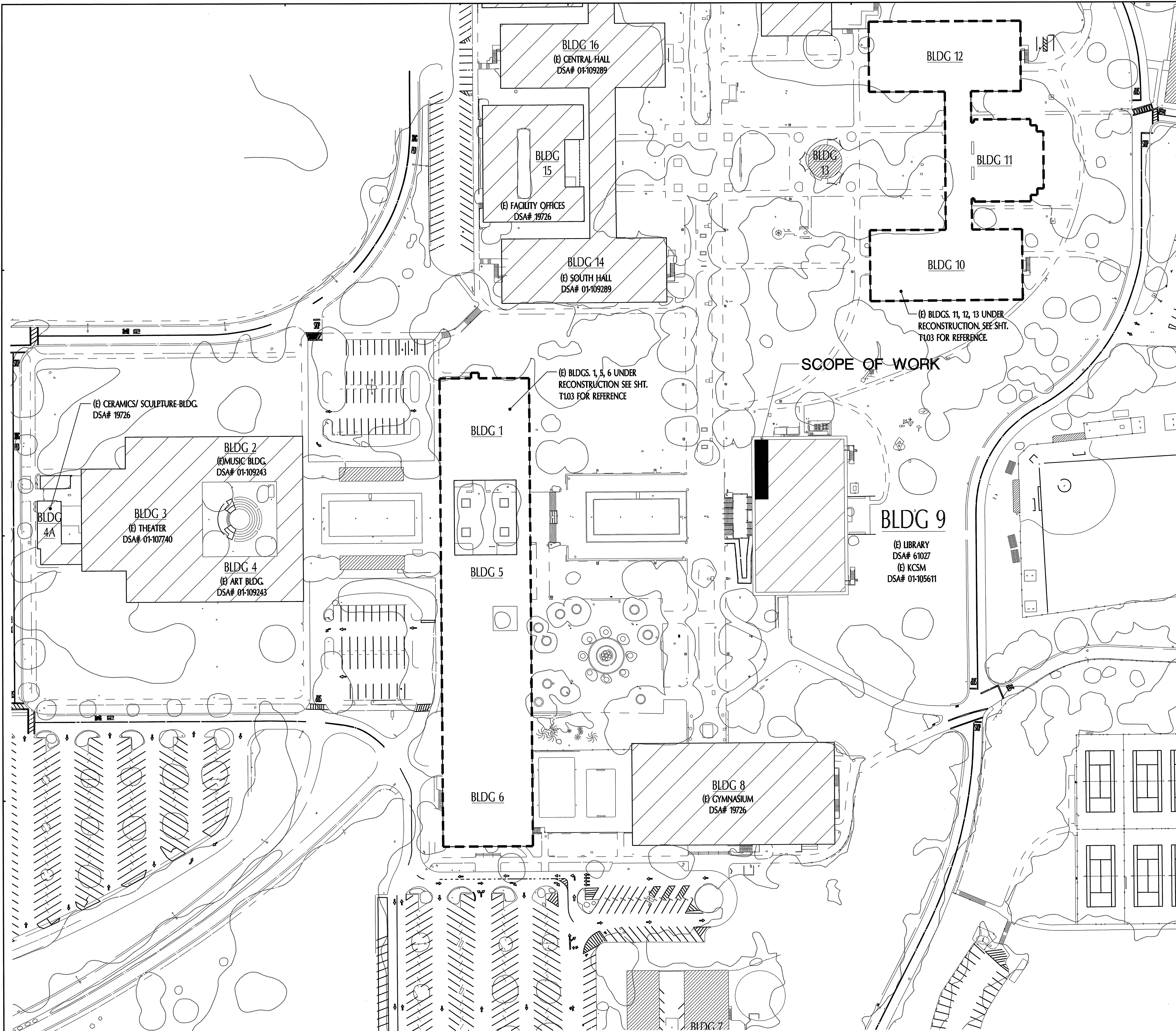
ACCESSIBLE PARKING REQUIRED* 52
*OVER 1,001 PARKING SPACES PROVIDED REQUIRES 20 ACCESSIBLE SPACES, PLUS 1 FOR EACH 100 SP. OVER 1,000.

DSA FILE NUMBERS

SN: 01-109870
10N: _____
FINE ARTS COURTYARD: 01-109895
NORTH GATEWAY: _____
SITE PACKAGE: _____



(FOR REFERENCE ONLY)



CODE REVIEW:

EXISTING 3 STORY APPROXIMATELY 48,395 SF LIBRARY WITH KCSM STUDIO AND OFFICE SPACE. EXISTING PRIMARY OCCUPANCY USE IS GROUP A-3, WITH GROUND FLOOR OCCUPANCY B.

CONSTRUCTION: 1-A
GROUND FLOOR OCCUPANCY:

- 1. GROUP B: KCSM STUDIO, OFFICES

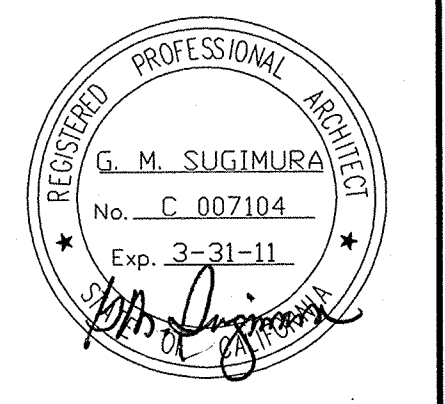
FIRST FLOOR AND MEZZANINE OCCUPANCY:

- 1. GROUP A-3: LIBRARY
- 2. GROUP A-3: MEZZANINE

ALLOWABLE FLOOR AREA PER 2007 CBC TABLE 503:

FLOOR	OCCUPANCY	ACTUAL FLOOR AREA	ALLOWABLE FLOOR AREA
LIBRARY	A-3	16,896 SF	UL
MEZZANINE	A-3	9,314 SF	UL
GROUND FLOOR	B	22,185 SF	UL
TOTAL:		48,395 SF	

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SITE PLAN
COLLEGE OF SAN MATEO BUILDING 9 RESTROOM REMODEL
SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT
1700 WEST HILL SPALLE BLVD.
SAN MATEO, CALIFORNIA

REVISIONS

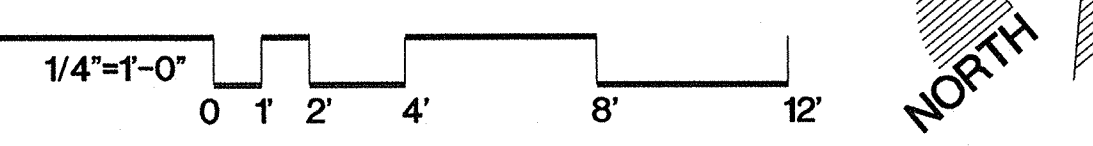
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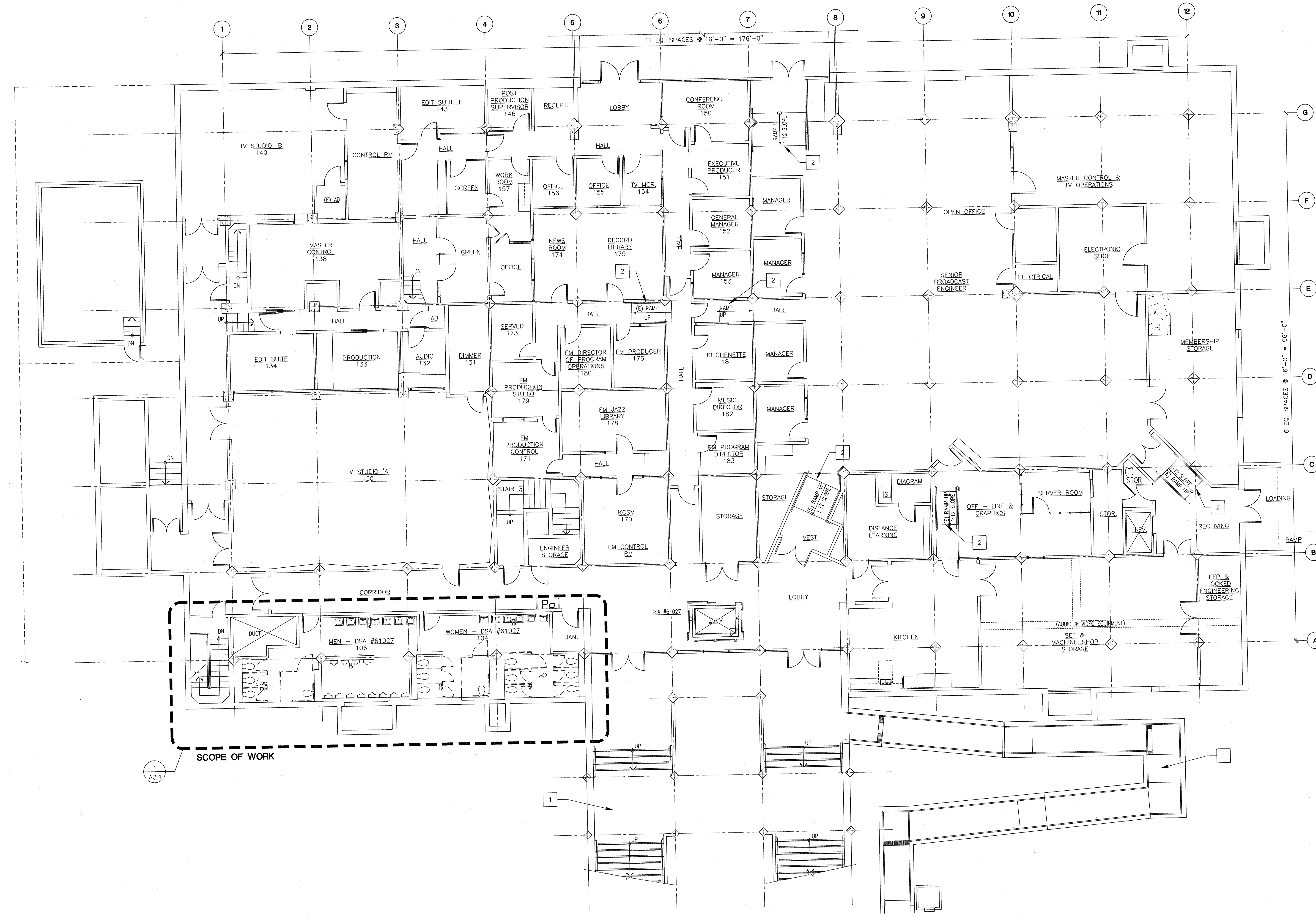
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SITE PLAN

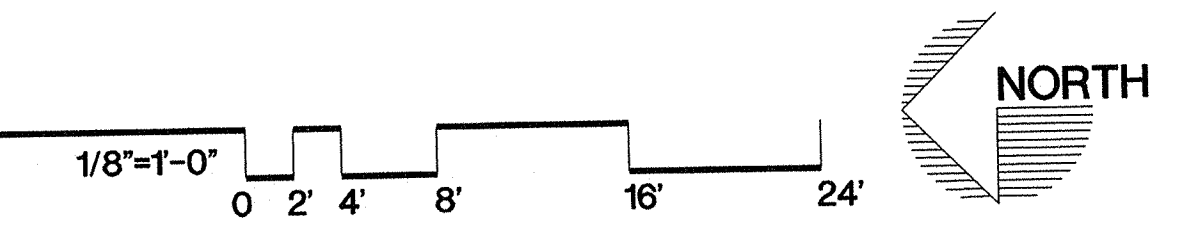




KEYED NOTES (AS INDICATED BY #)

- 1. DSA #61027
- 2. DSA #01-105611

DEMOLITION FLOOR PLAN - GROUND FLOOR



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DEMOLITION FLOOR PLAN
GROUND FLOOR
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SAN MATEO, CALIFORNIA

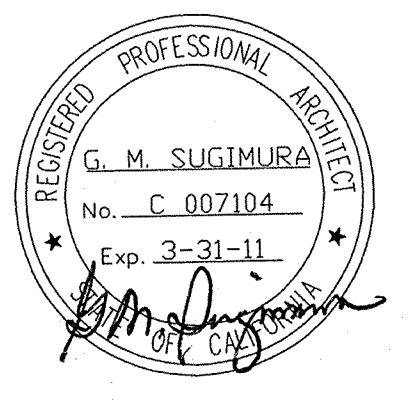
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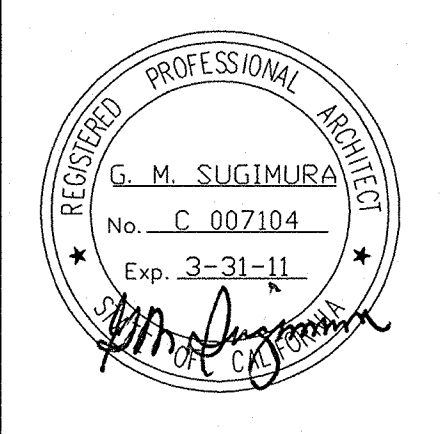
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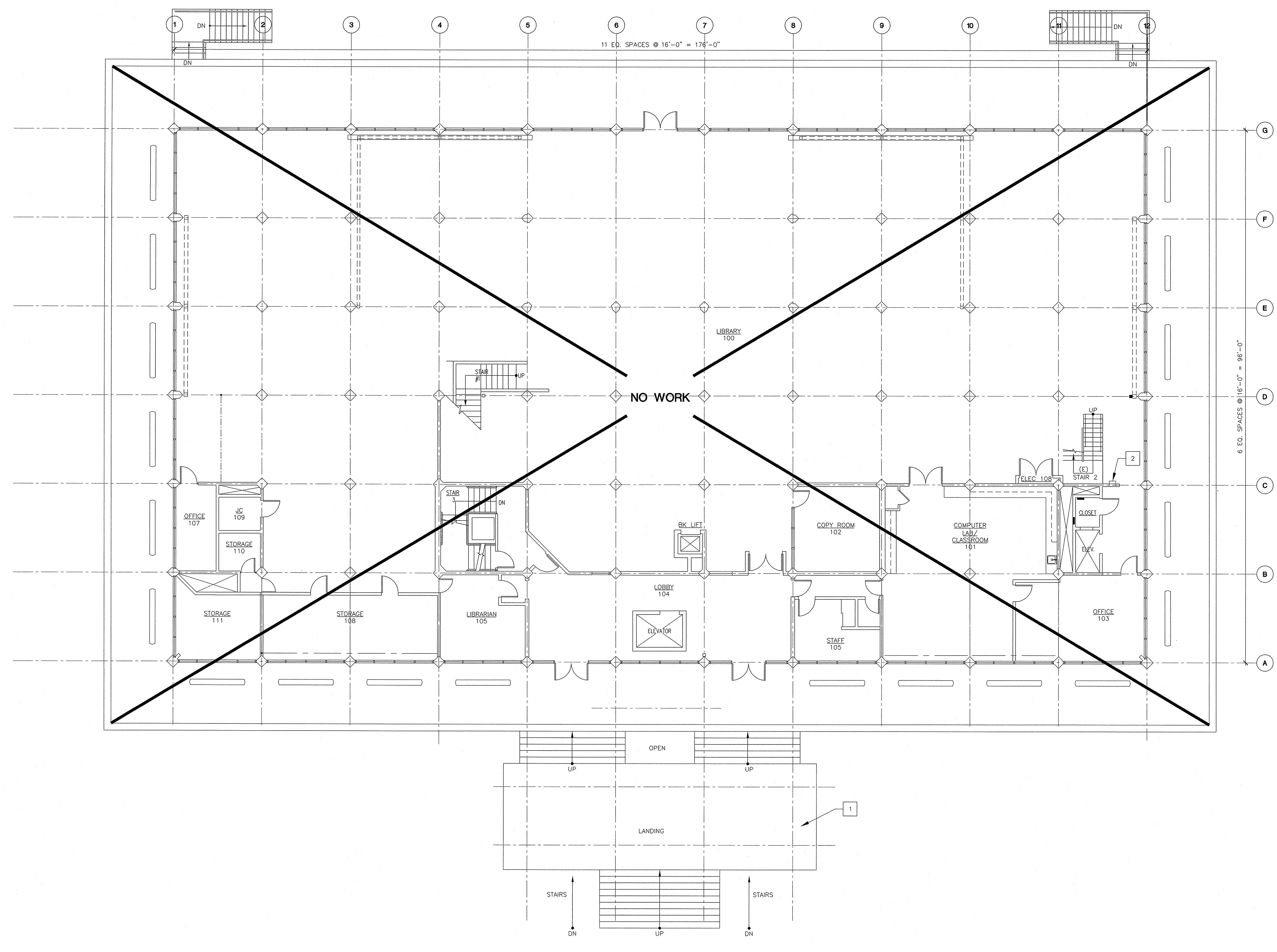
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SHEET NOTES (AS INDICATED BY #)

1. DSA #61027
2. (E) DRINKING FOUNTAIN. DSA # 19726



EXISTING FLOOR PLAN - FIRST FLOOR (FOR REFERENCE ONLY)

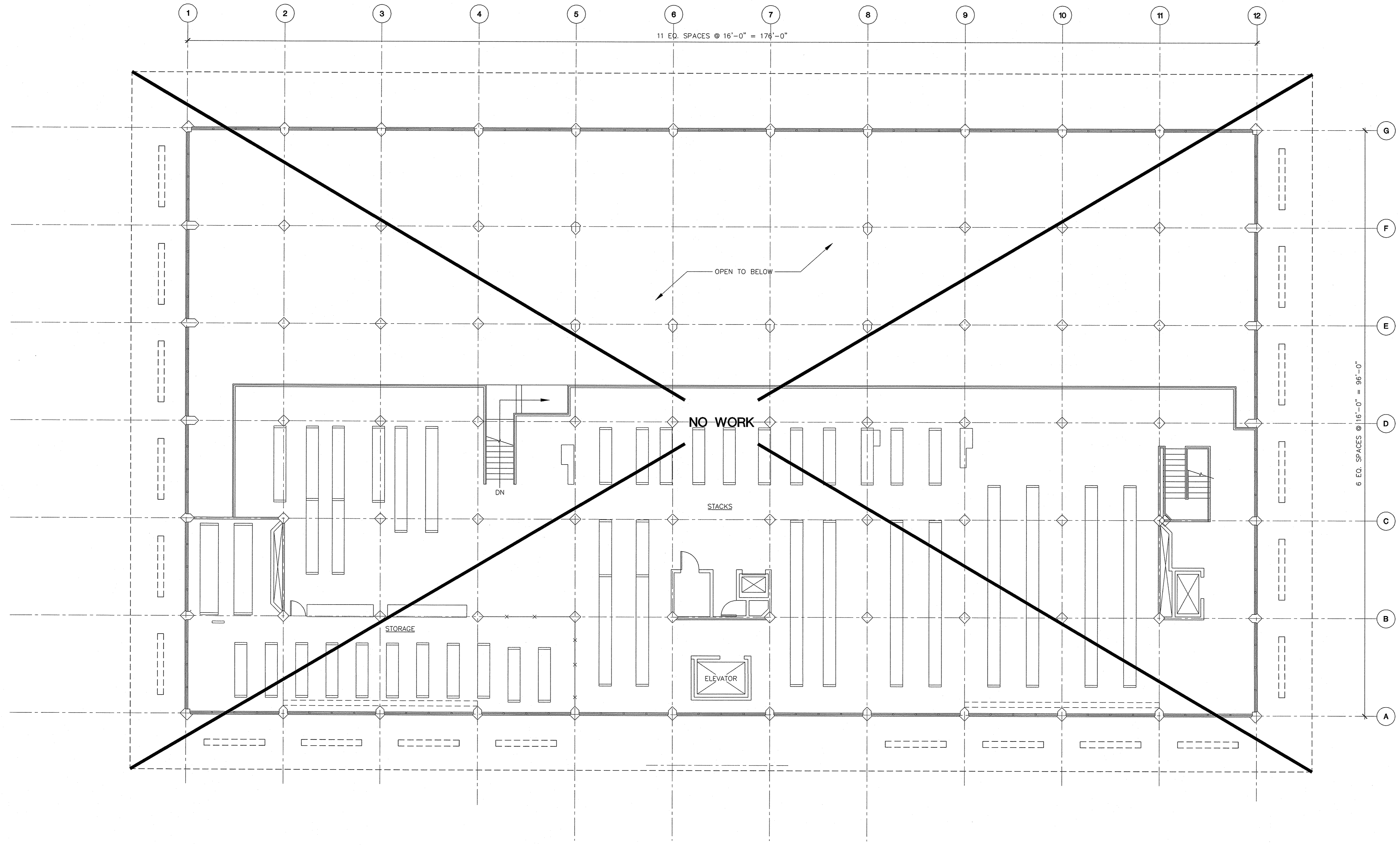
**EXISTING FLOOR PLAN
 FIRST FLOOR**
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 SAN MATEO, CALIFORNIA

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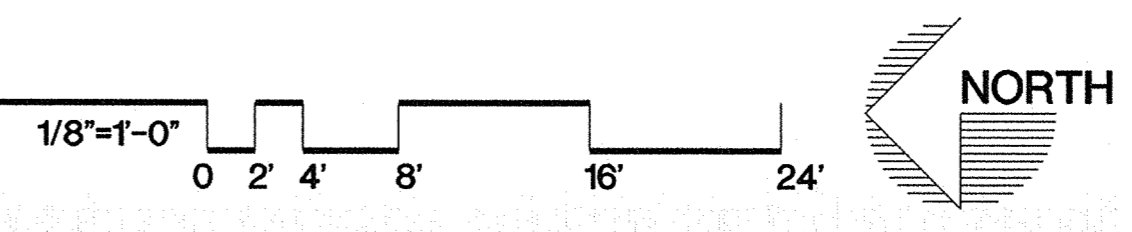
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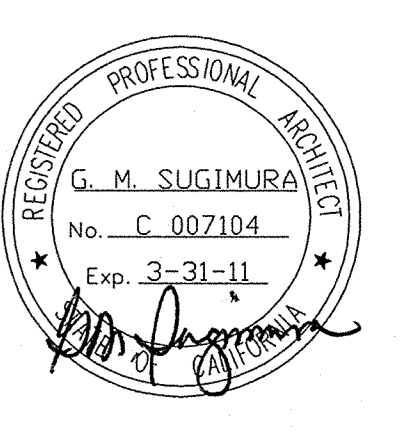


EXISTING FLOOR PLAN - MEZZANINE FLOOR (FOR REFERENCE ONLY)



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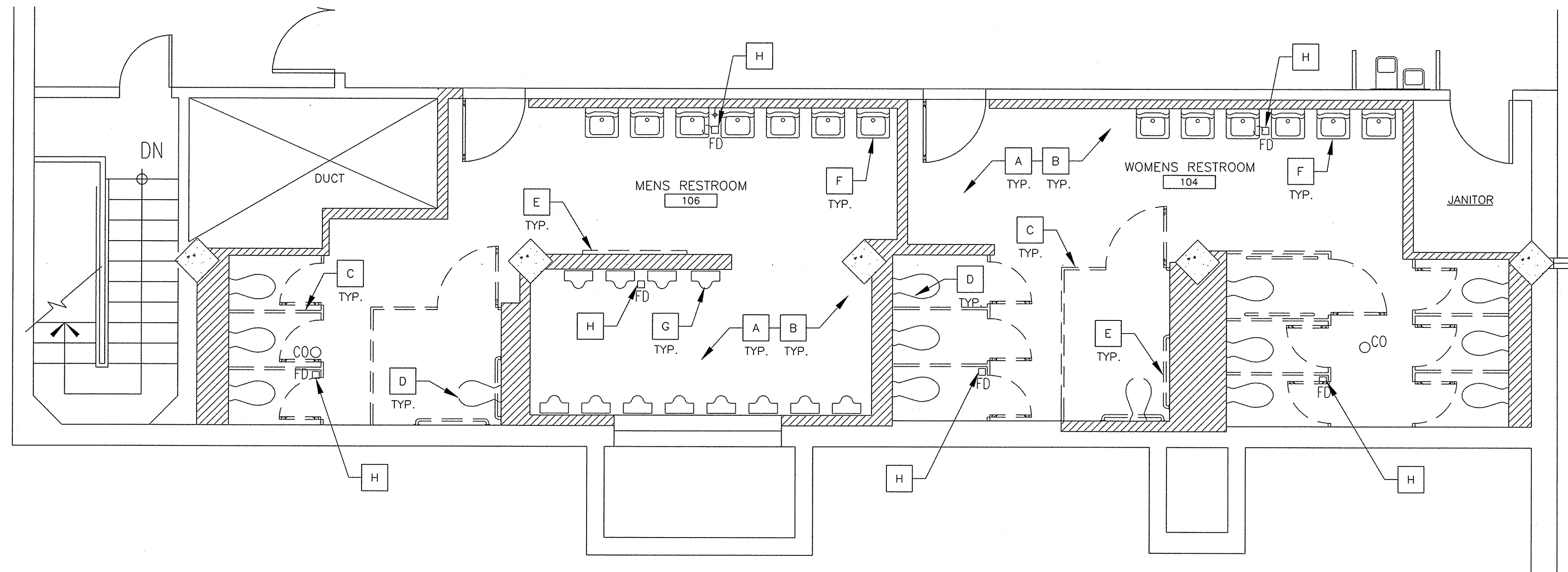
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EXISTING FLOOR PLAN
 MEZZANINE FLOOR
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 SAN MATEO, CALIFORNIA

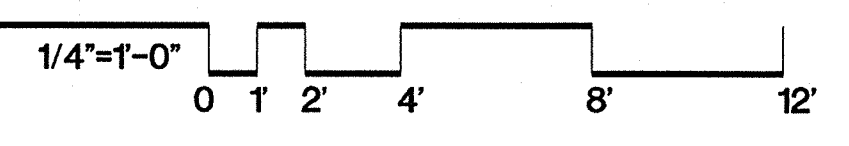
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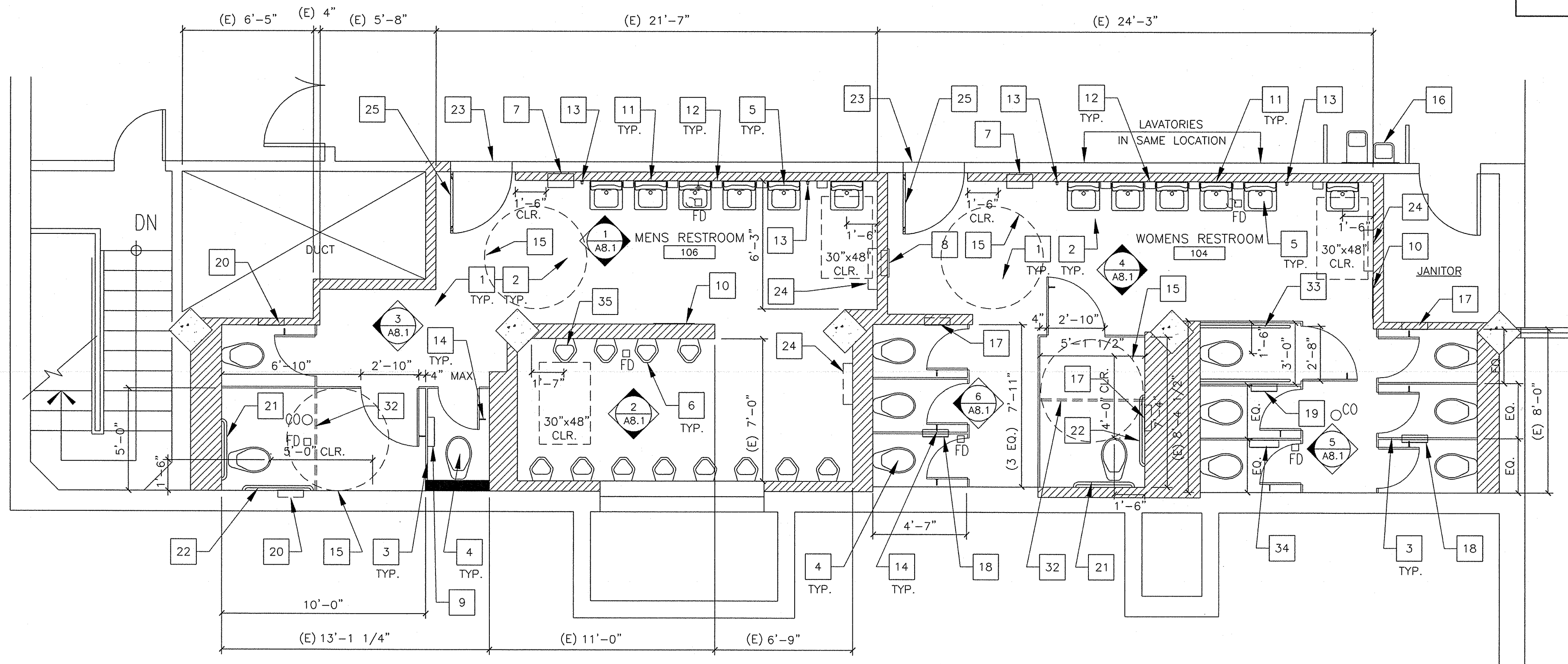
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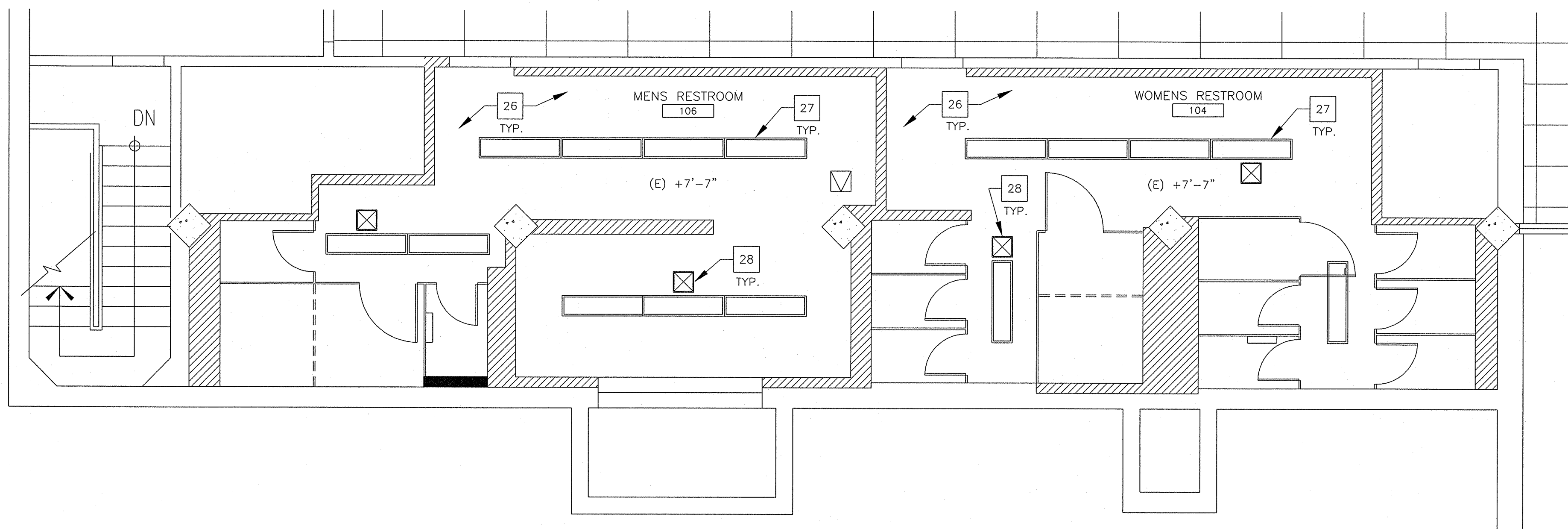
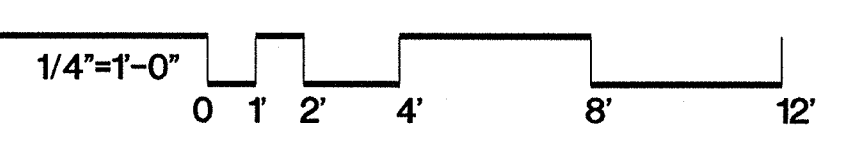
1 DEMOLITION RESTROOM FLOOR PLAN - GROUND FLOOR



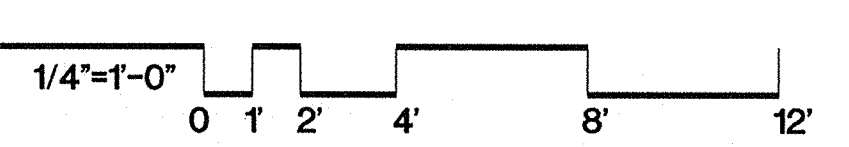
NOTE:
ALL (E) WALLS AND PLUMBING CARRIERS TO BE REPLACED WITH NEW. VERIFY ALL CLEARANCES ARE IN ACCORDANCE WITH ADA REGULATIONS.



2 PROPOSED RESTROOM FLOOR PLAN - GROUND FLOOR



3 PROPOSED RESTROOM REFLECTED CEILING PLAN - GROUND FLOOR



GENERAL NOTES

- G1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO DEMOLITION.
- G2. CONTRACTOR TO VERIFY ALL DRAINS ARE WORKING PROPERLY PRIOR TO START OF CONSTRUCTION.
- G3. UNLESS OTHERWISE NOTED REFER TO ARCHITECTURAL SPECIFICATIONS FOR SPECIFIC PRODUCT MANUFACTURERS AND MODEL NUMBERS FOR TOILET ROOM ACCESSORIES AND RELATED ITEMS LISTED BELOW.
- G4. NOT USED.
- G5. PATCH AND REPAIR ANY EXISTING CONSTRUCTION DAMAGED BY DEMOLITION.
- G6. SLOPE (N) FLOORING TO (E) DRAINS @ 2% MAX.
- G7. REMOVE TILE AND MORTAR TO CONCRETE SUBSTRATE WHERE (N) TILE FLOORING IS INDICATED.
- G8. NOT USED.
- G9. REMOVE ALL (E) INTERIOR FLOOR & WALL FINISHES FOR ENTIRE RESTROOM. PATCH & PREPARE SUBSTRATE TO RECEIVE (N) FINISHES AS SCHEDULED.
- G10. REMOVE ALL (E) TOILET, LAVATORIES, URINALS, MIRRORS AND ACCESSORIES. REMOVE (E) FINISHES THROUGHOUT. GUT OUT THE WHOLE RESTROOMS. REPLACE ANY DAMAGED STRUCTURAL. PATCH WALL AS REQUIRED TO RECEIVE (N) FINISHES AS SCHEDULED.
- G11. REFER TO SHEET A8.1 FOR ACCESSORY MOUNTING HEIGHTS DETAILS. REFER TO SHEET A3.1 FOR ENLARGED RESTROOM FLOOR PLANS.

DEMO NOTES (AS INDICATED BY #)

- A. DEMO (E) FLOOR TILE AND PREP FOR (N)
- B. DEMO (E) WALL FINISH AND PREP FOR (N)
- C. DEMO (E) TOILET PARTITIONS INCLUDING HARDWARE, FASTENERS, ETC.
- D. DEMO (E) WATER CLOSETS
- E. DEMO (E) ACCESSORIES
- F. DEMO (E) LAVATORIES
- G. DEMO (E) URINALS AND PREP FOR (N) IN SAME LOCATION
- H. (E) FLOOR DRAIN TO REMAIN, VERIFY LOCATION IN FIELD.

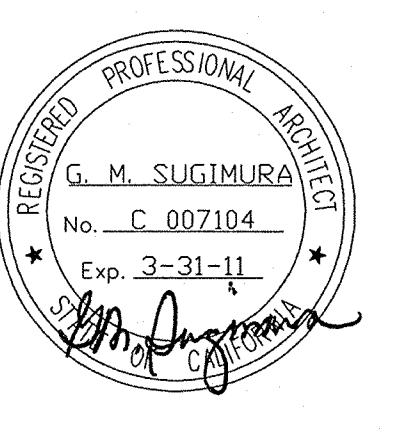
KEY NOTES (AS INDICATED BY #)

1. (N) TILE FLOORING ENTIRE RESTROOM. SEE DET. 4/A9.1
2. (N) TILE WALL ENTIRE RESTROOM. SEE DET. 3/A9.1 AND ELEVATIONS ON SHT. A8.1
3. (N) FLOOR MOUNTED TOILET PARTITION
4. (N) WALL MOUNTED WATER CLOSET
5. (N) WALL MOUNTED LAVATORY
6. (N) WALL MOUNTED URINAL IN SAME LOCATION AS (E)
7. (N) SEMI-RECESSED TRASH RECEPTACLE AND PAPER NAPKIN DISPENSER
8. (N) RECESSED SANITARY NAPKIN VENDOR
9. (N) SURFACE MOUNTED COMINATION SEAT COVER DISPENSER AND TOILET TISSUE DISPENSER.
10. (N) 24" WIDE X 60" HIGH MIRROR
11. (N) 18" WIDE MIRROR WITH STAINLESS STEEL SHELF ABOVE EACH LAVATORY
12. (N) SOAP DISPENSER, OFCI
13. (N) UTILITY HOOK
14. (N) PARTITION MOUNTED ROBE HOOK @ EACH STALL
15. 5'-0" CLEAR SPACE
16. (E) ACCESSIBLE DRINKING FOUNTAIN. DSA #01-105611
17. (N) RECESSED COMINATION SEAT COVER DISPENSER, SANITARY NAPKIN DISPOSAL AND TOILET TISSUE DISPENSER
18. (N) PARTITION MOUNTED COMINATION SEAT COVER DISPENSER, SANITARY NAPKIN DISPOSAL AND TOILET TISSUE DISPENSER SERVING 2 NON-ACCESSIBLE STALLS
19. (N) PARTITION MOUNTED COMINATION SEAT COVER DISPENSER, SANITARY NAPKIN DISPOSAL AND TOILET TISSUE DISPENSER SERVING 1 ACCESSIBLE STALL AND 1 NON-ACCESSIBLE STALL
20. (N) RECESSED COMINATION SEAT COVER DISPENSER AND TOILET TISSUE DISPENSER
21. (N) 36" GRAB BAR
22. (N) 42" GRAB BAR
23. (N) MARBLE THRESHOLD. SEE DET. 2/A9.1
24. SURFACE MOUNTED STAINLESS STEEL SHELF 6"x26"
25. SAND AND REFINISH (E) DOOR TO MATCH (E) BUILDING DOOR FINISHES. SALVAGE AND REINSTALL (E) DOOR SIGNAGE PER DISTRICT STANDARDS. RE-INSTALL (E) DOOR HARDWARE AND (E) DOOR SIGNAGE. COMPLY WITH ADA REQUIREMENTS. FOR REFERENCE SEE DETAILS ON SHT. A8.1.
26. (N) GYP. BD. CEILING. PAINT KELLY MOORE BONE 27. SEMIGLOSS FINISH. (N) CEILING TO MATCH (E) HEIGHT. (E) SUSPENDED CEILING SYSTEM TO REMAIN.
27. (N) LIGHT FIXTURE. SEE MEP DRAWINGS.
28. (N) AIR REGISTER. SEE MEP DRAWINGS.
29. NOT USED
30. NOT USED
31. NOT USED
32. (N) OVERHEAD BRACE.
33. (N) WALL AND FLOOR ATTACHED GRAB BAR @ WOMEN'S SEMI-AMBULATORY STALL. SEE DETS. 7 & 9/A9.1
34. (N) SURFACE MOUNTED COMINATION SEAT COVER DISPENSER, SANITARY NAPKIN DISPOSAL AND TOILET TISSUE DISPENSER.
35. ADA WALL MOUNTED URINAL

LEGEND

- (E) WALL TO BE REPLACED WITH (N) IF REQUIRED.
- (N) FURRED WALL

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ENLARGED RESTROOM PLANS
GROUND FLOOR
COLLEGE OF SAN MATEO BUILDING 9 RESTROOM REMODEL
SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT
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SAN MATEO, CALIFORNIA

REVISIONS

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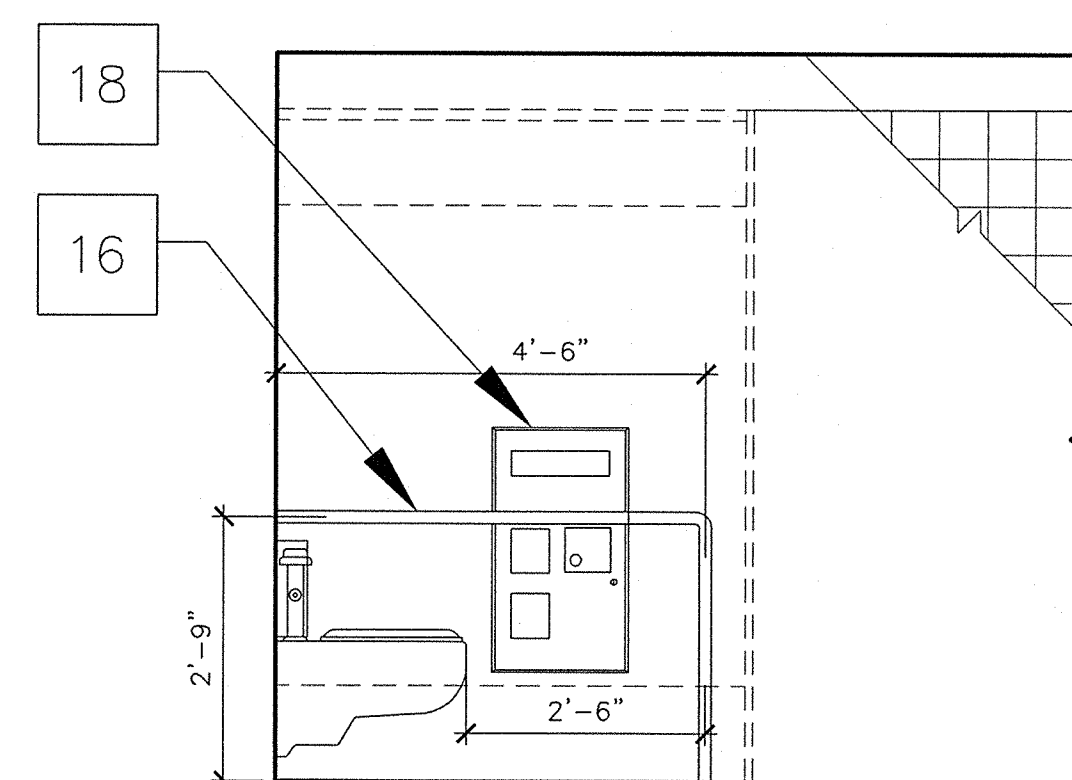
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GENERAL NOTES

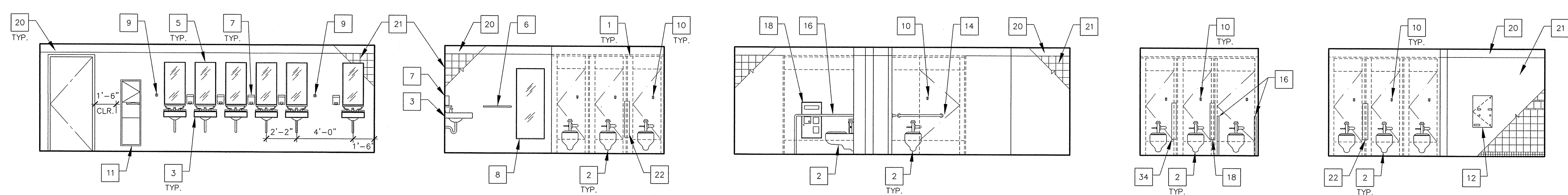
- A. UNLESS OTHERWISE NOTED REFER TO ARCHITECTURAL SPECIFICATIONS FOR SPECIFIC PRODUCT MANUFACTURERS AND MODEL NUMBERS FOR TOILET ROOM ACCESSORIES AND RELATED ITEMS LISTED BELOW.
- B. REFER TO SHEET A9.1 FOR ACCESSORY MOUNTING HEIGHTS DETAILS. REFER TO SHEET A3.1 FOR ENLARGED RESTROOM FLOOR PLANS.

KEYED NOTES (AS INDICATED BY #)

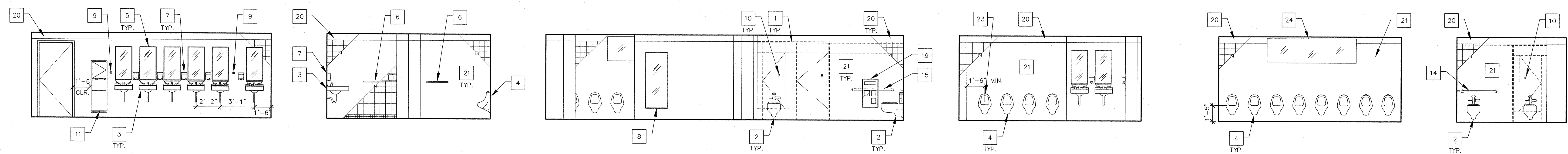
- 1. FLOOR MOUNTED TOILET PARTITION
- 2. ADA WALL MOUNTED WATER CLOSET
- 3. WALL MOUNTED LAVATORY
- 4. WALL MOUNTED URINAL AT SAME LOCATION AS (E), V.I.F.
- 5. 18"W X 36"H MIRROR WITH SHELF ABOVE EACH LAVATORY
- 6. STAINLESS STEEL CONVENIENCE SHELF
- 7. SOAP DISPENSER, OFCI
- 8. 24"W X 60"H MIRROR
- 9. UTILITY HOOK
- 10. PARTITION MOUNTED ROBE HOOK MOUNTED ON INSIDE OF EACH STALL. SEE FLOOR PLAN FOR LOCATIONS.
- 11. SEMI-RECESSED PAPER TOWEL DISPENSER AND WASTE RECEPTACLE
- 12. RECESSED SANITARY NAPKIN VENDOR
- 13. NOT USED
- 14. 36" GRAB BAR, 1-1/2" DIAMETER
- 15. 42" GRAB BAR, 1-1/2" DIAMETER
- 16. FLOOR MOUNTED GRAB BAR, 1-1/2" DIAMETER. SEE DET. 9/A9.1
- 17. NOT USED
- 18. PARTITION MOUNTED COMBINATION SEAT COVER DISPENSER, SANITARY NAPKIN DISPOSAL AND TOILET TISSUE DISPENSER SERVING 1 ACCESSIBLE AND 1 NON-ACCESSIBLE STALL. TOILET TISSUE DISPENSER TO BE CONTINUOUS FLOW TYPE.
- 19. RECESSED COMBINATION SEAT COVER DISPENSER AND TOILET TISSUE DISPENSER. TOILET TISSUE DISPENSER TO BE CONTINUOUS FLOW TYPE.
- 20. GYP. BD. PAINTED. SEE DET. 3/A9.1
- 21. SEE TILE DESIGN FOR TYP. WALL DET. 3/A9.1
- 22. PARTITION MOUNTED COMBINATION SEAT COVER DISPENSER, SANITARY NAPKIN DISPOSAL AND TOILET TISSUE DISPENSER SERVING 2 NON-ACCESSIBLE STALLS. TOILET TISSUE DISPENSER TO BE CONTINUOUS FLOW TYPE.
- 23. ADA WALL MOUNTED URINAL
- 24. (E) WINDOW TO REMAIN



7 WOMEN'S RESTROOM
SEMI-AMBULATORY STALL ELEVATION 1/2" = 1'-0"

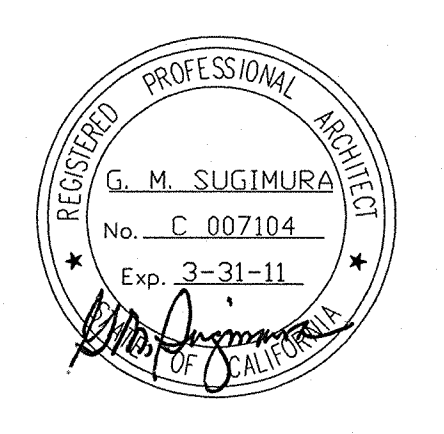


4 WOMEN'S RESTROOM
104 1/4" = 1'-0"



1 MEN'S RESTROOM
106 1/4" = 1'-0"

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RESTROOM INTERIOR ELEVATIONS AND REFLECTED CEILING PLAN
COLLEGE OF SAN MATEO BUILDING 9 RESTROOM REMODEL
SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT
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SAN MATEO, CALIFORNIA

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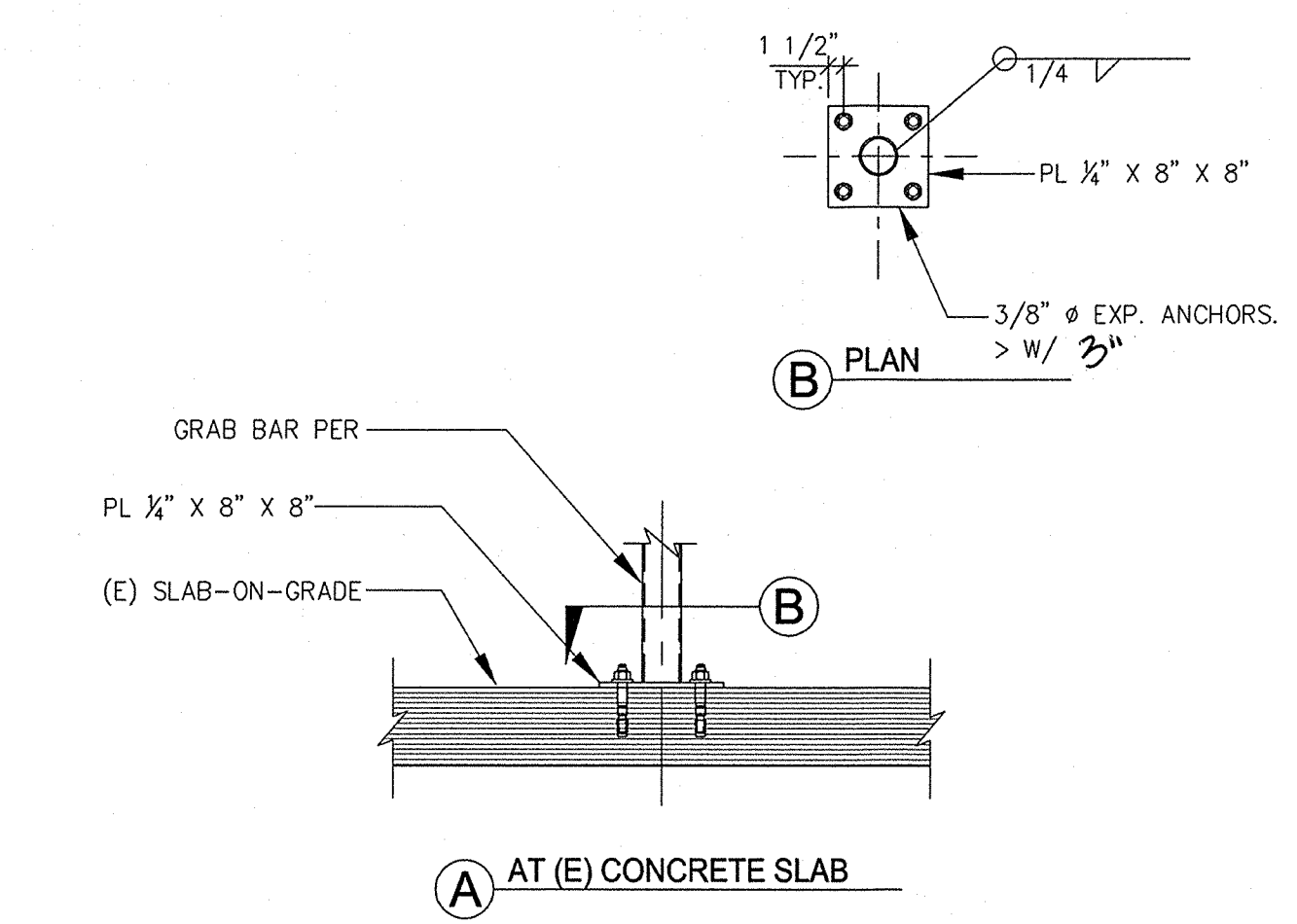
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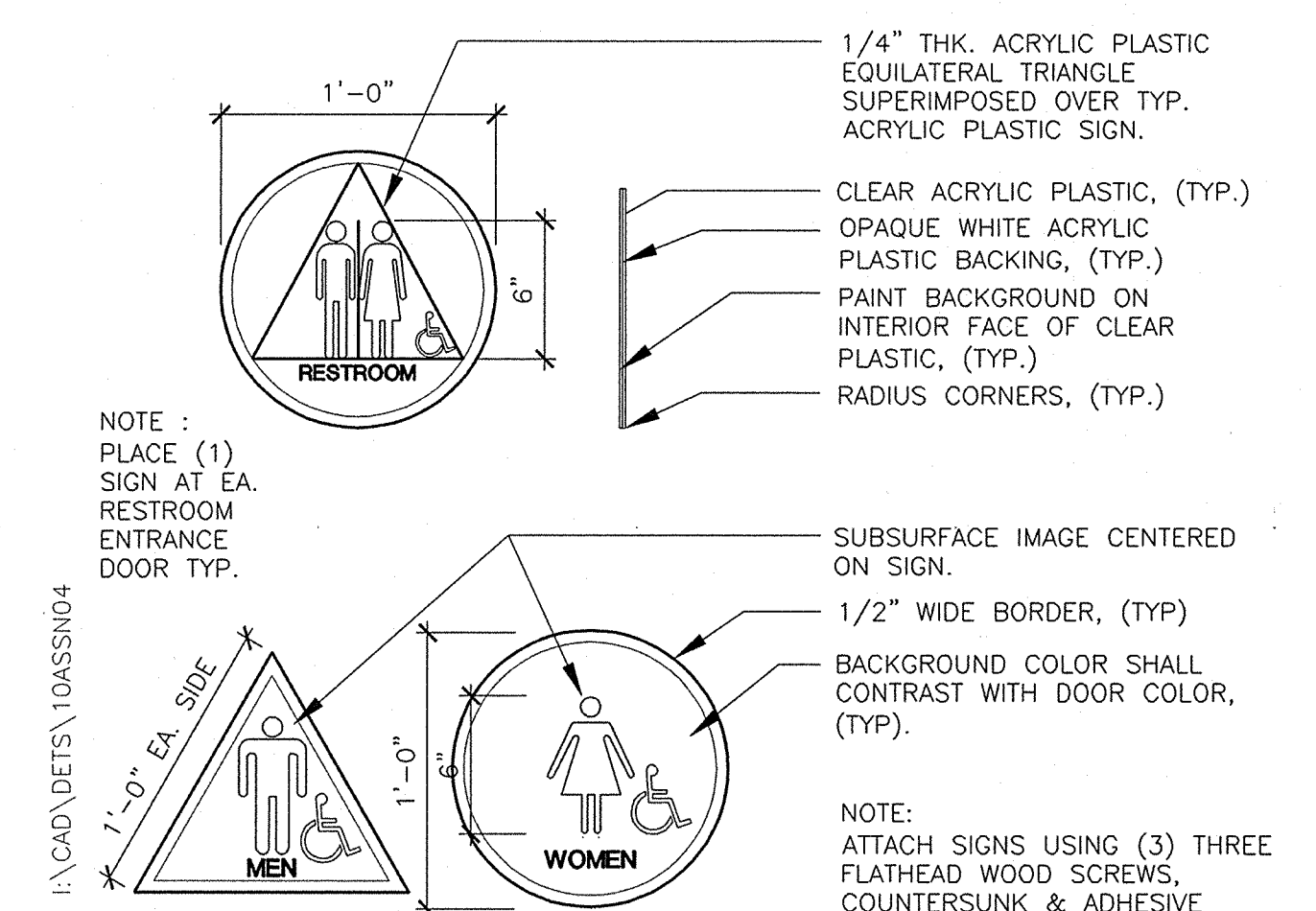
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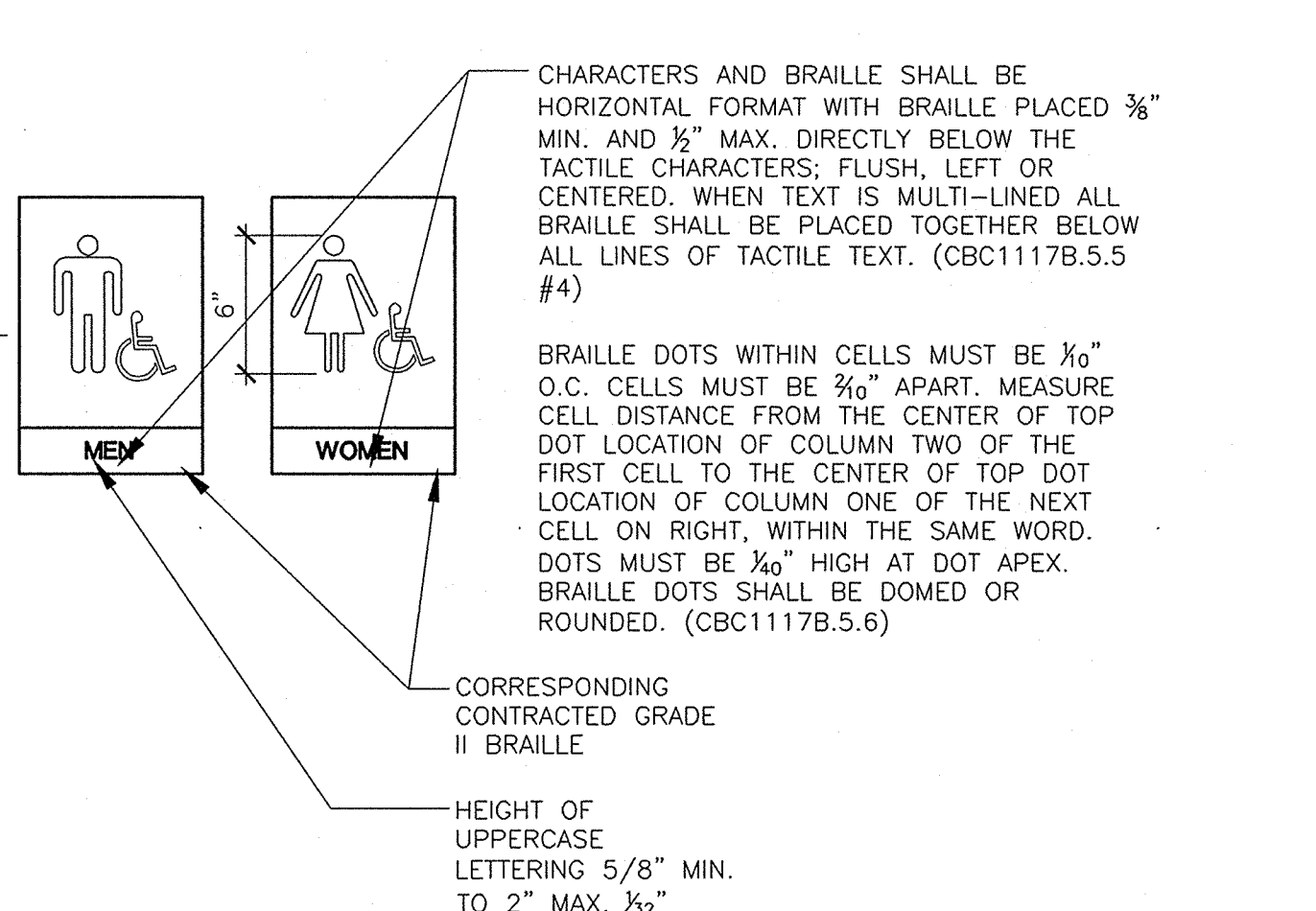
9 GRAB BAR @ FLOOR ATTACHMENT
1"=1'-0"



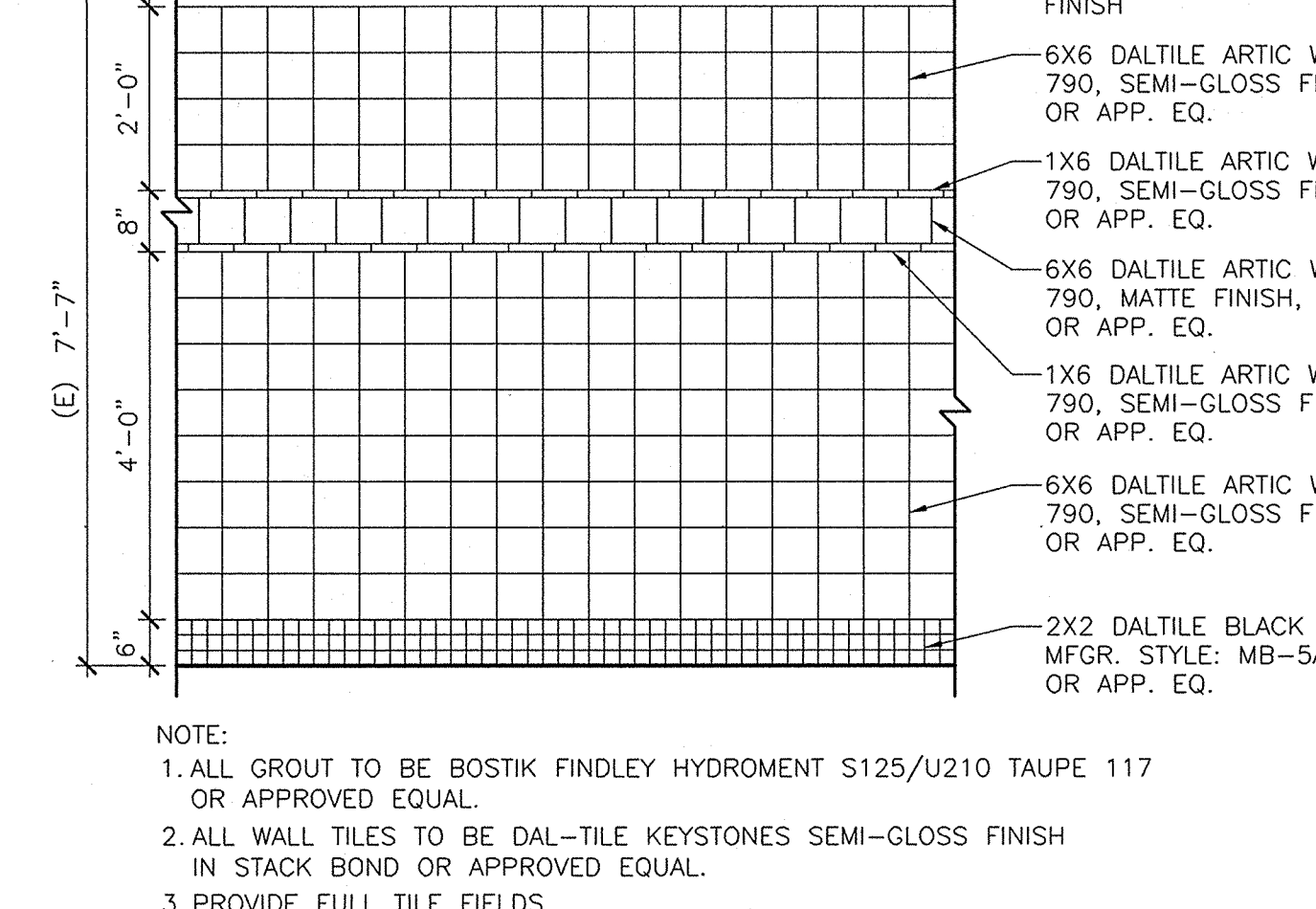
6 RESTROOM SYMBOLS ON DOORS (FOR REFERENCE ONLY)
1-1/2"=1'-0"



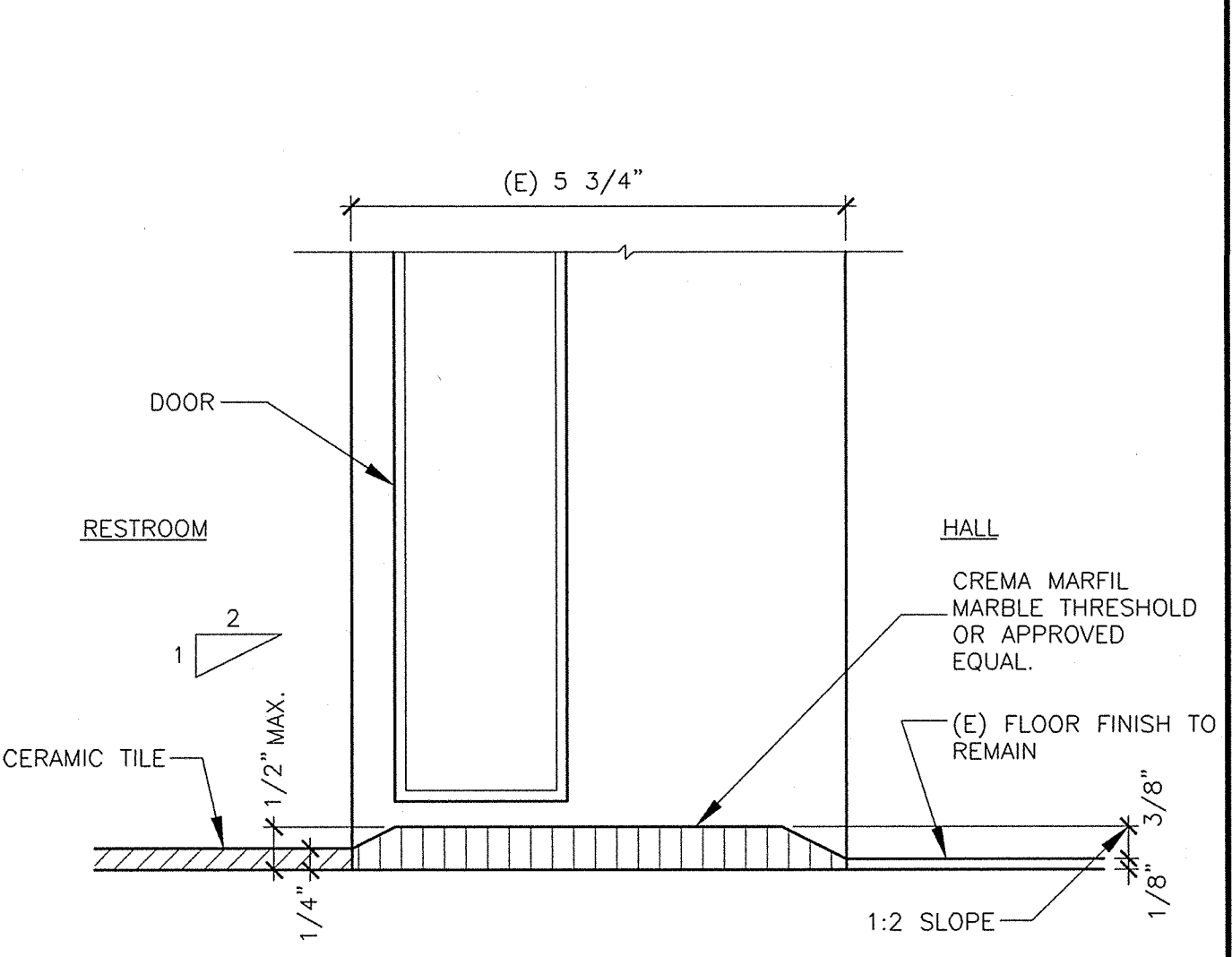
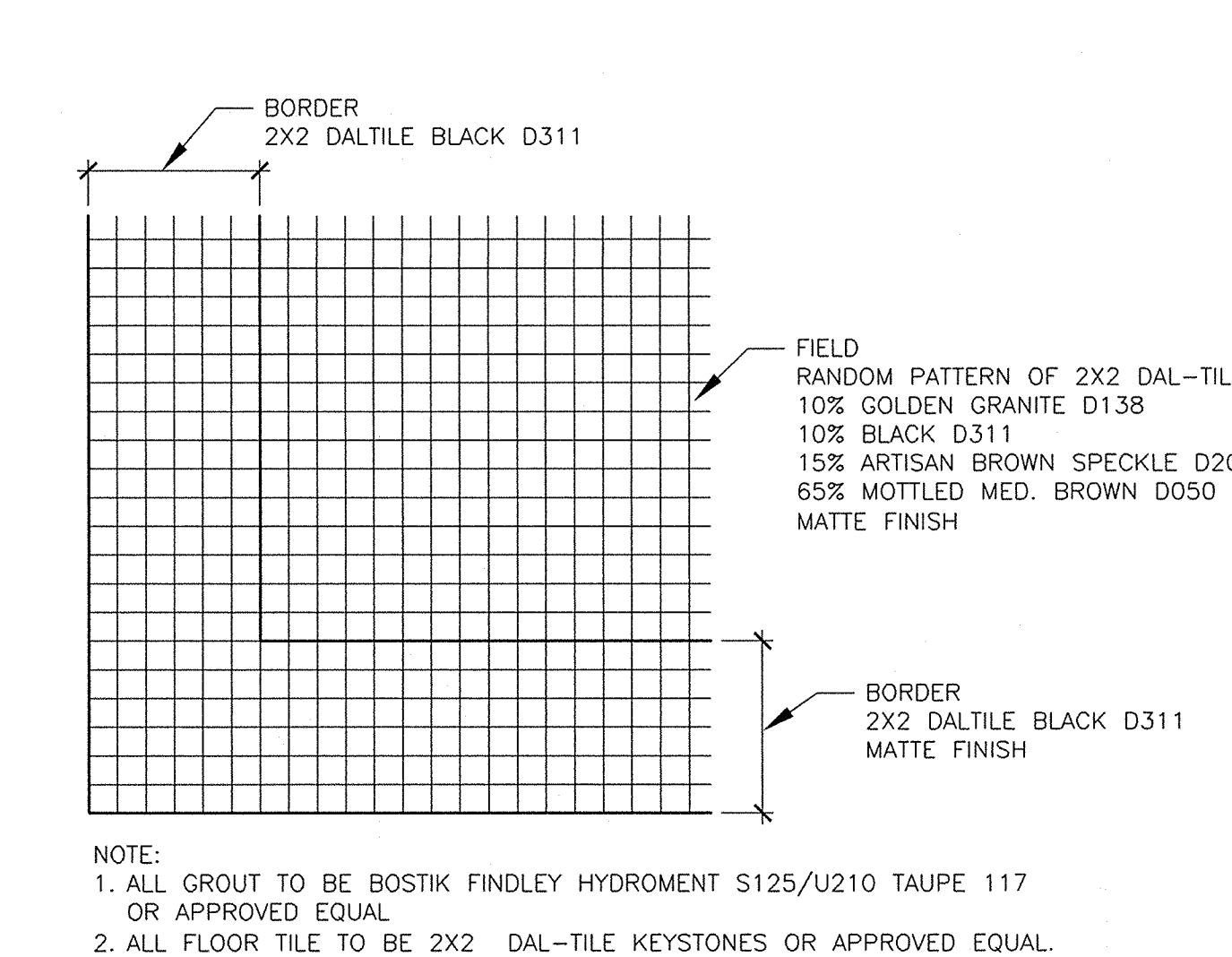
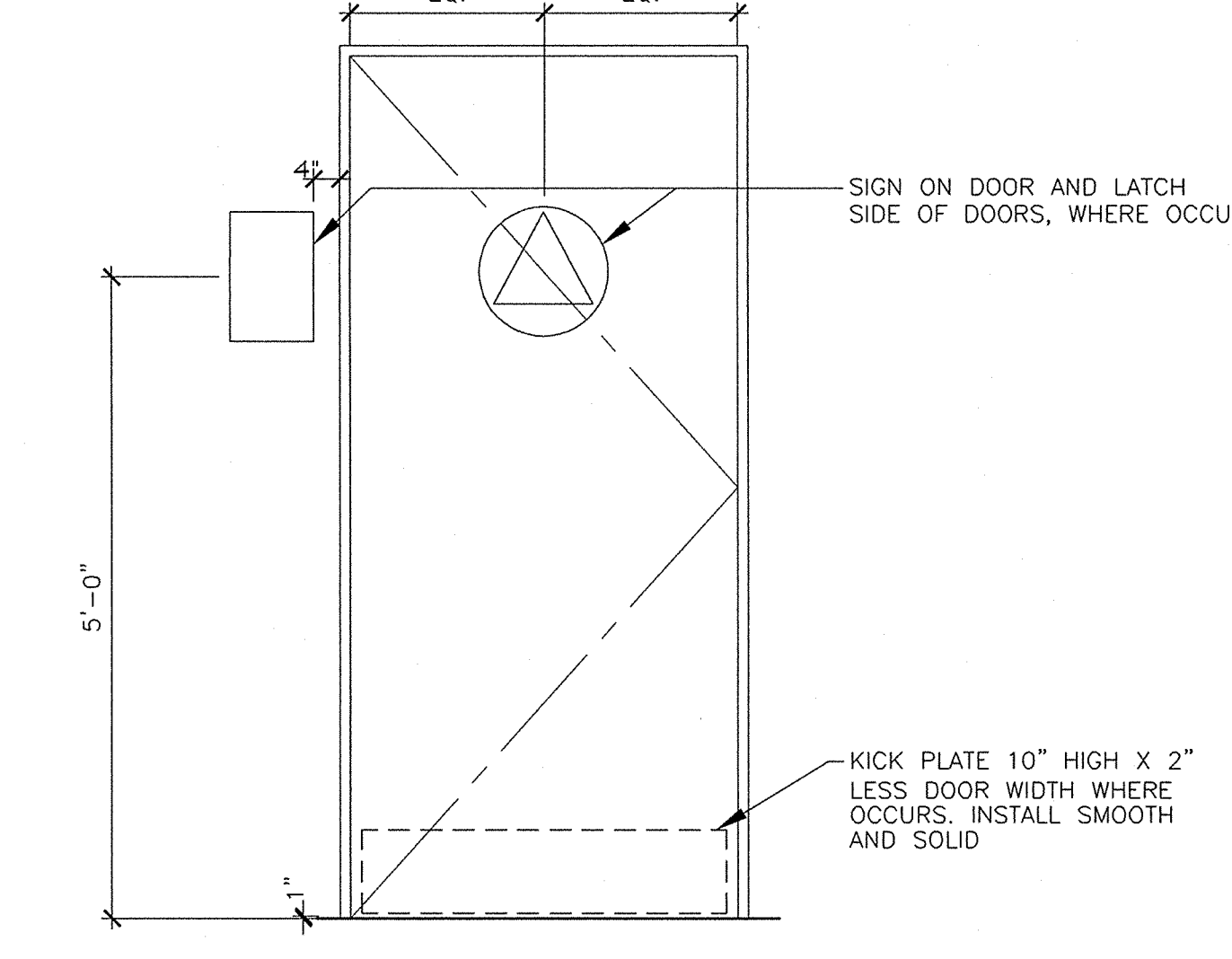
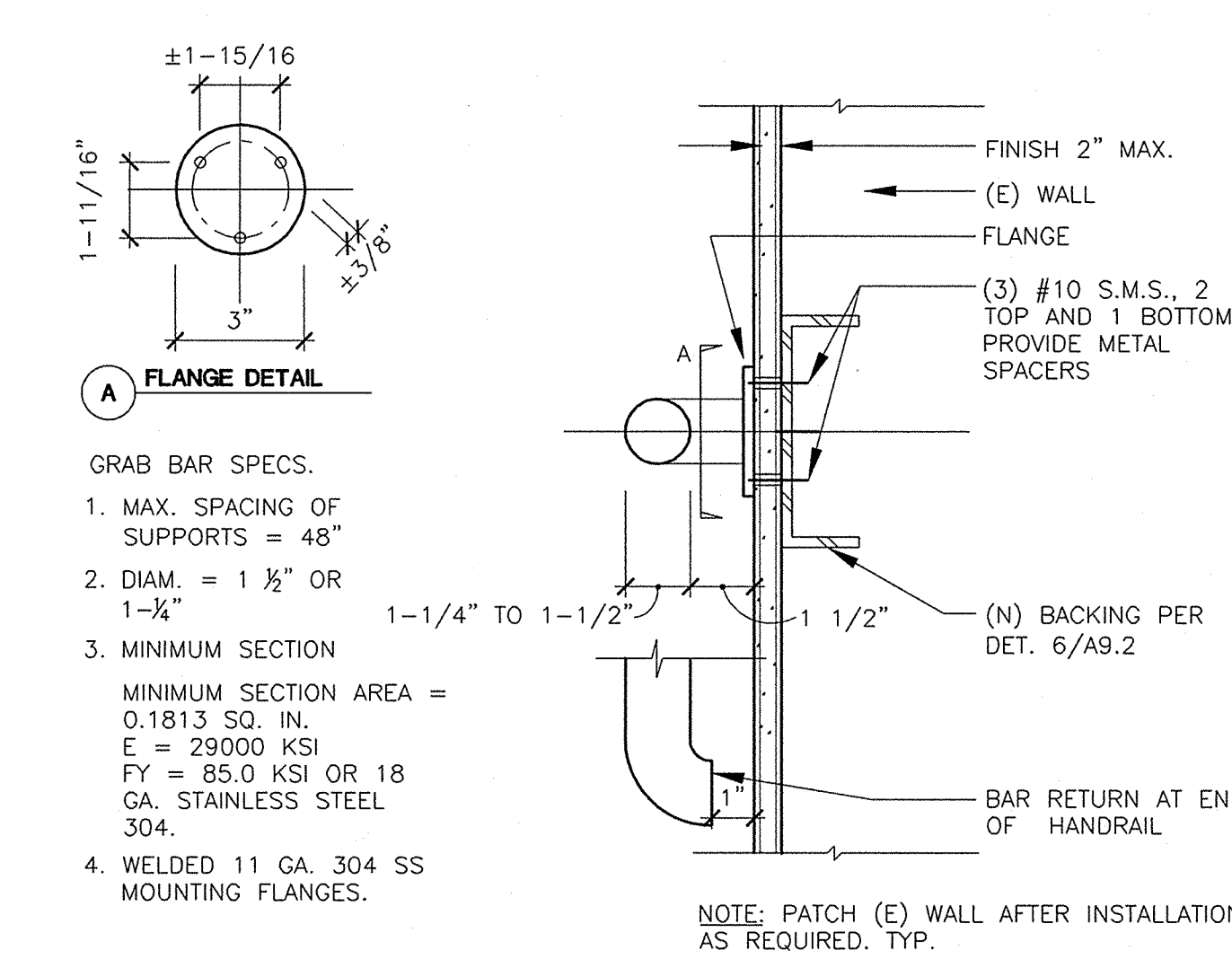
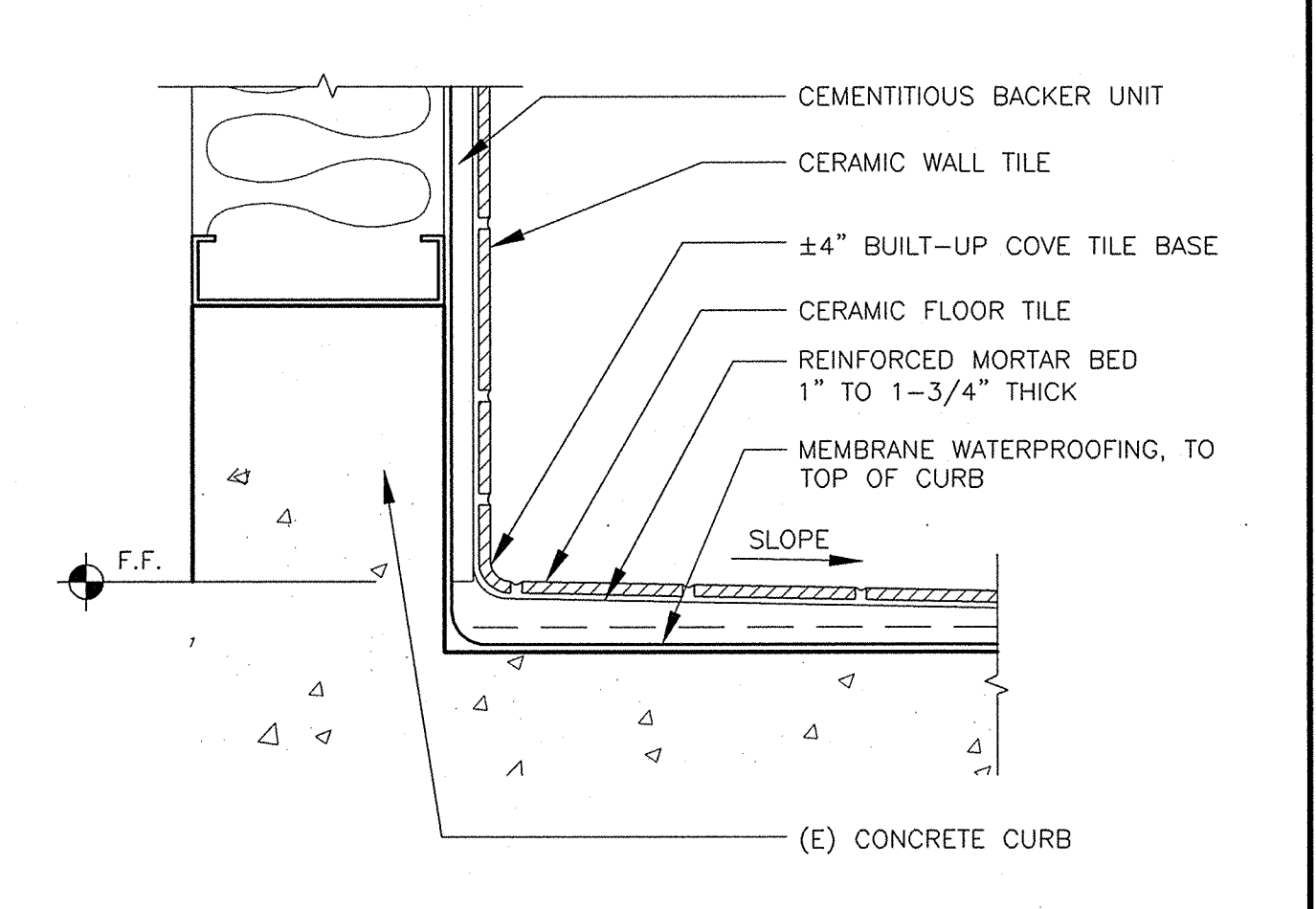
WALL SIGNAGE
60" A.F.F.



3 CERAMIC TILE WALL PATTERN RESTROOMS
1/2"=1'-0"



1 TILE WALL BASE
3"=1'-0"

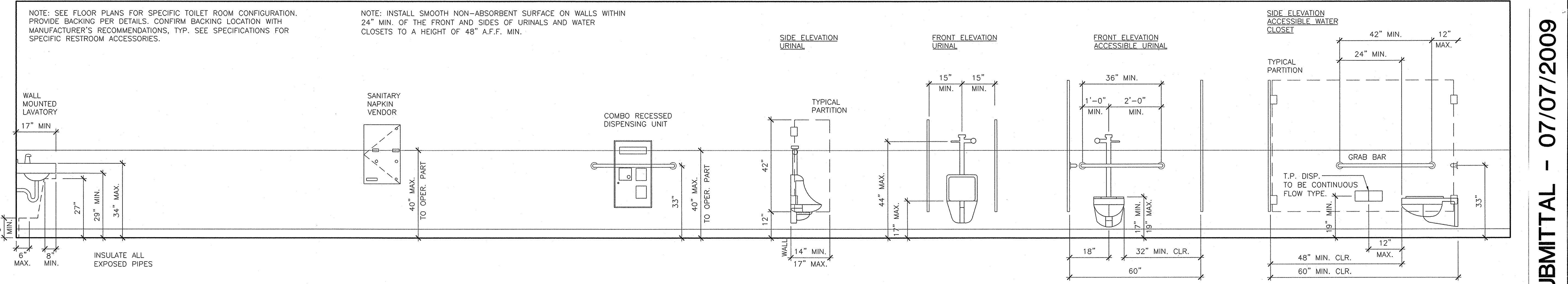
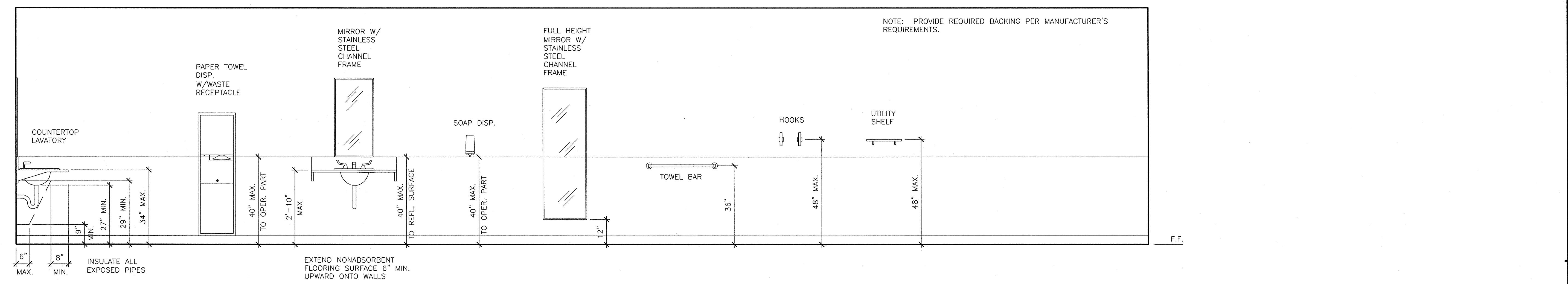


7 GRAB BAR DETAIL
3"=1'-0"

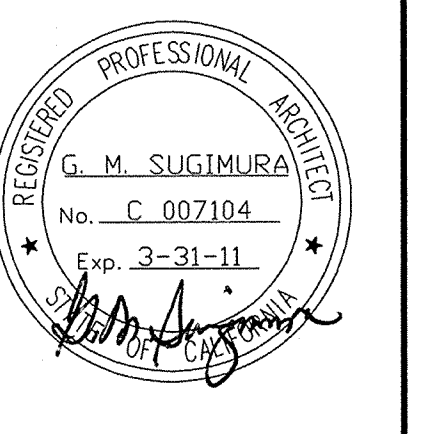
5 RESTROOM DOOR SIGNAGE LOCATION
NTS

4 CERAMIC TILE FLOOR PATTERN RESTROOMS
1"=1'-0"

2 RESTROOM THRESHOLD
6"=1'-0"



8 RESTROOM MOUNTING HEIGHTS
1/2"=1'-0"



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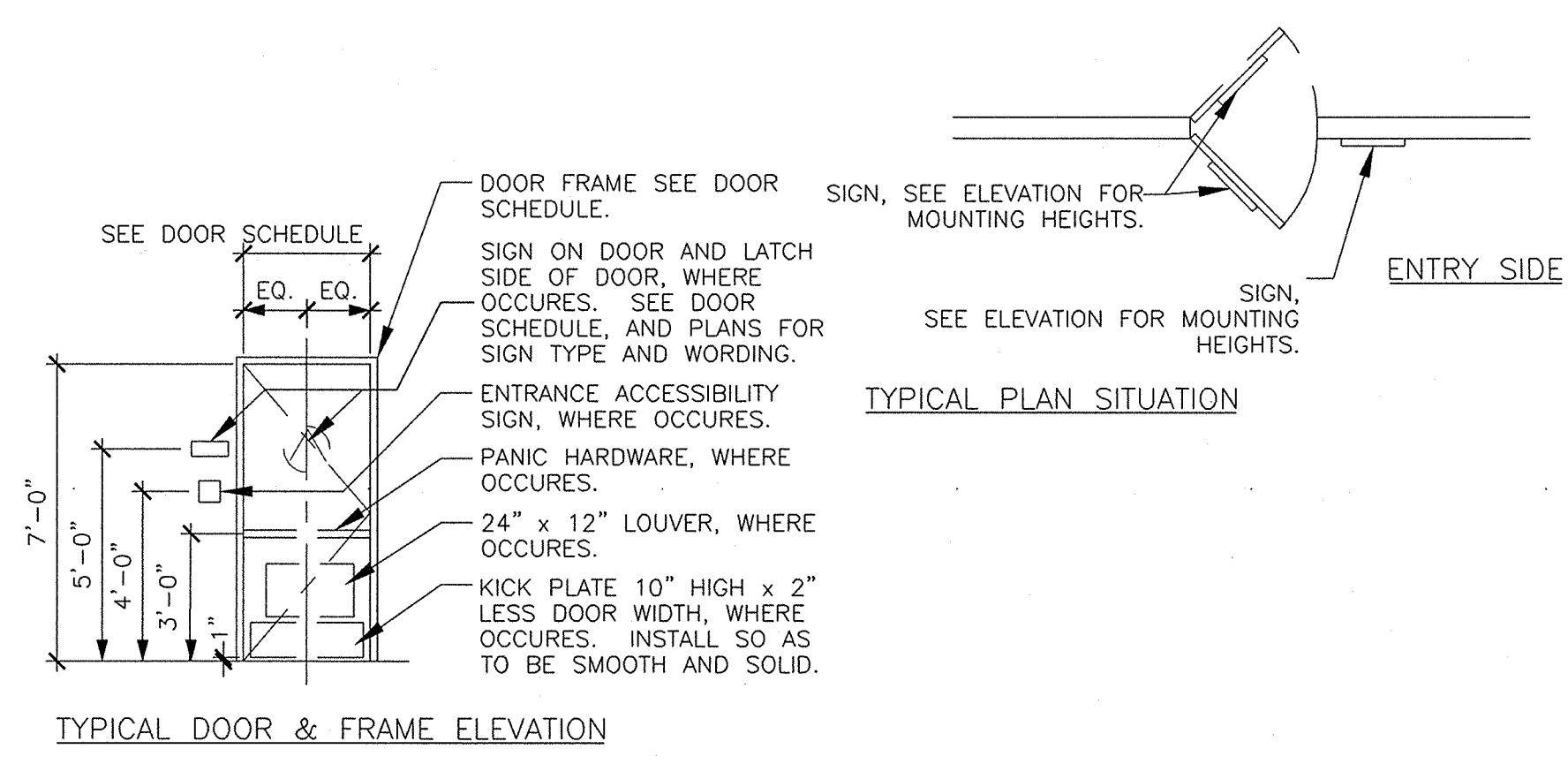
RESTROOM DETAILS
COLLEGE OF SAN MATEO BUILDING 9 RESTROOM REMODEL
SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT
1700 WEST HILLSDALE BLVD.
SAN MATEO, CALIFORNIA

REVISIONS

NO.	ITEM	DATE

CLIENT APPROVAL:

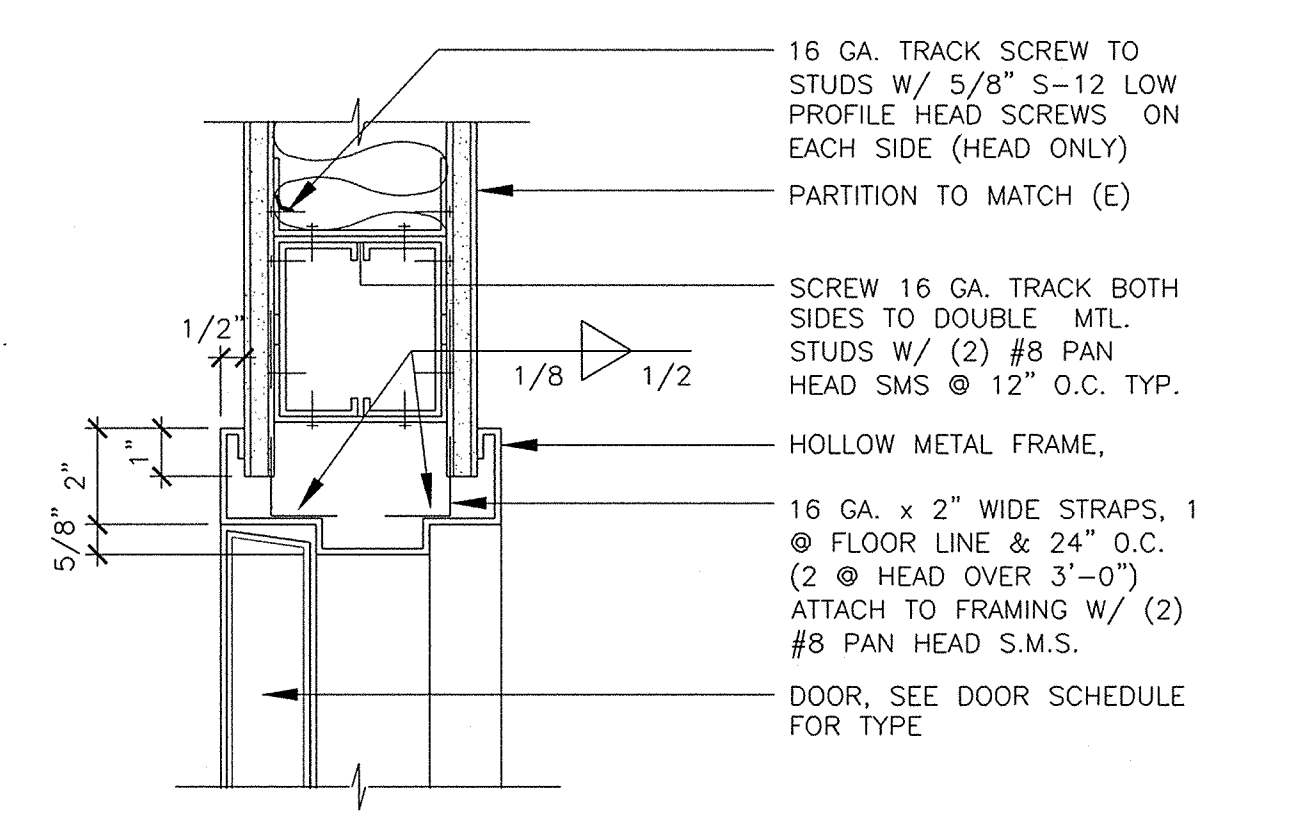
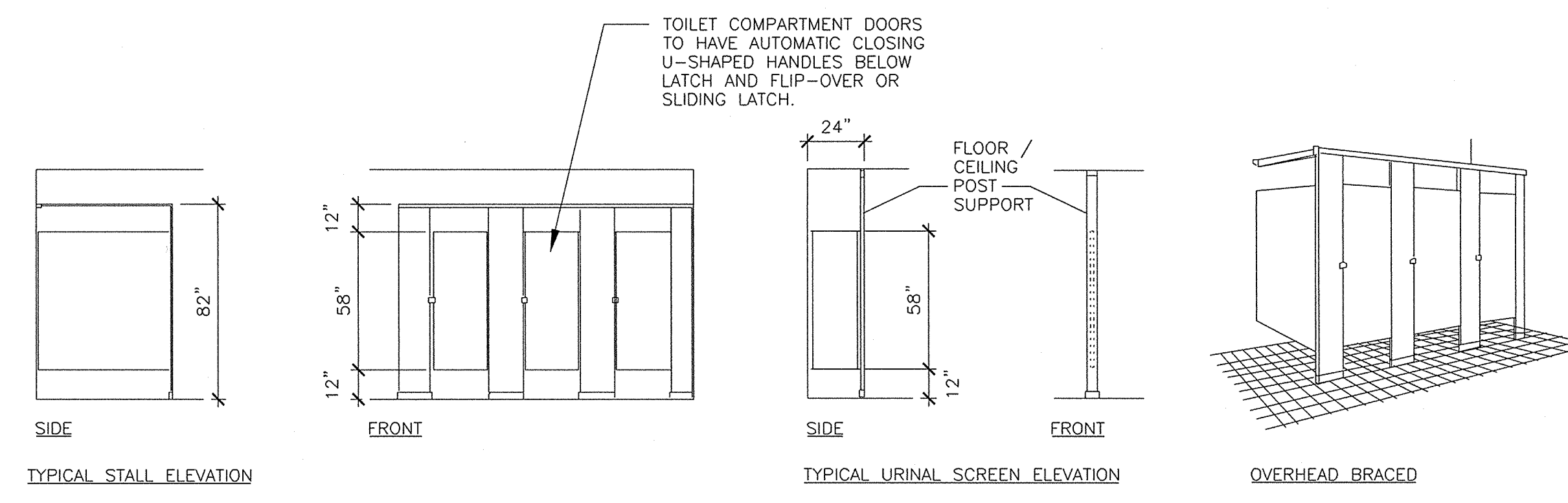
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CHECKED BY: SV
JOB NO: 2869 DATE: 07/07/2009



- NOTES:
- PROVIDE TRIANGULAR SIGN (WITH 12" SIDES) AT ALL MEN'S AND BOY'S AND, CIRCULAR SIGN (WITH 12" DIAMETER) AT ALL WOMEN'S AND GIRL'S TOILET DOORWAYS AND WALL ADJACENT TO LATCH LEADING TO SANITARY FACILITIES PER SECTION 111B.5, MOUNTED AT 5'-0" TO CENTER OF SIGN TO FINISH FLOOR.
 - ALL RATED DOORS TO POSITIVE LATCHING AND SELF CLOSING. "LABEL" SHALL MEAN "ASSEMBLY" AS DEFINED IN 2007 CBC, SEC. 713.
 - ALL 20 MINUTE RATED ASSEMBLIES SHALL BE PROVIDED WITH APPROVED GASKETING MATERIAL INSTALLED TO PROVIDE A SEAL WHERE THE DOOR MEETS THE STOP ON BOTH SIDES AND ACROSS THE TOP. (PER U.B.C. STANDARDS)
 - ALL DOORS SHALL BE 1-3/4" THICK U.O.N.
 - EXTERIOR SIGN ALUM. FRAMES SHALL BE ATTACHED TO SUBSTRATE WITH VANDAL PROOF FASTENERS WITH EXPANSION SHIELDS. NAME OR ROOM NAME PLATES SHALL BE ATTACHED TO FRAME WITH BRASS SCREWS, AS APPROVED BY ARCHITECT.
 - ALL BRAILLE TEXT SHALL BE CALIFORNIA GRADE 2 BRAILLE PER TITLE 24, SECTION 1117B.5.6, TYP.
 - ALL SIGNS AND IDENTIFICATION (AT MAIN ENTRANCES, TOILETS, PERMANENT ROOMS, ASSISTIVE LISTENING, ETC.) SHALL COMPLY WITH TITLE 24, AND SECTIONS 1117B.5 THROUGH 1117B.5.10.
 - CONTRACTOR TO VERIFY ALL OPENING DIMENSIONS IN FIELD.

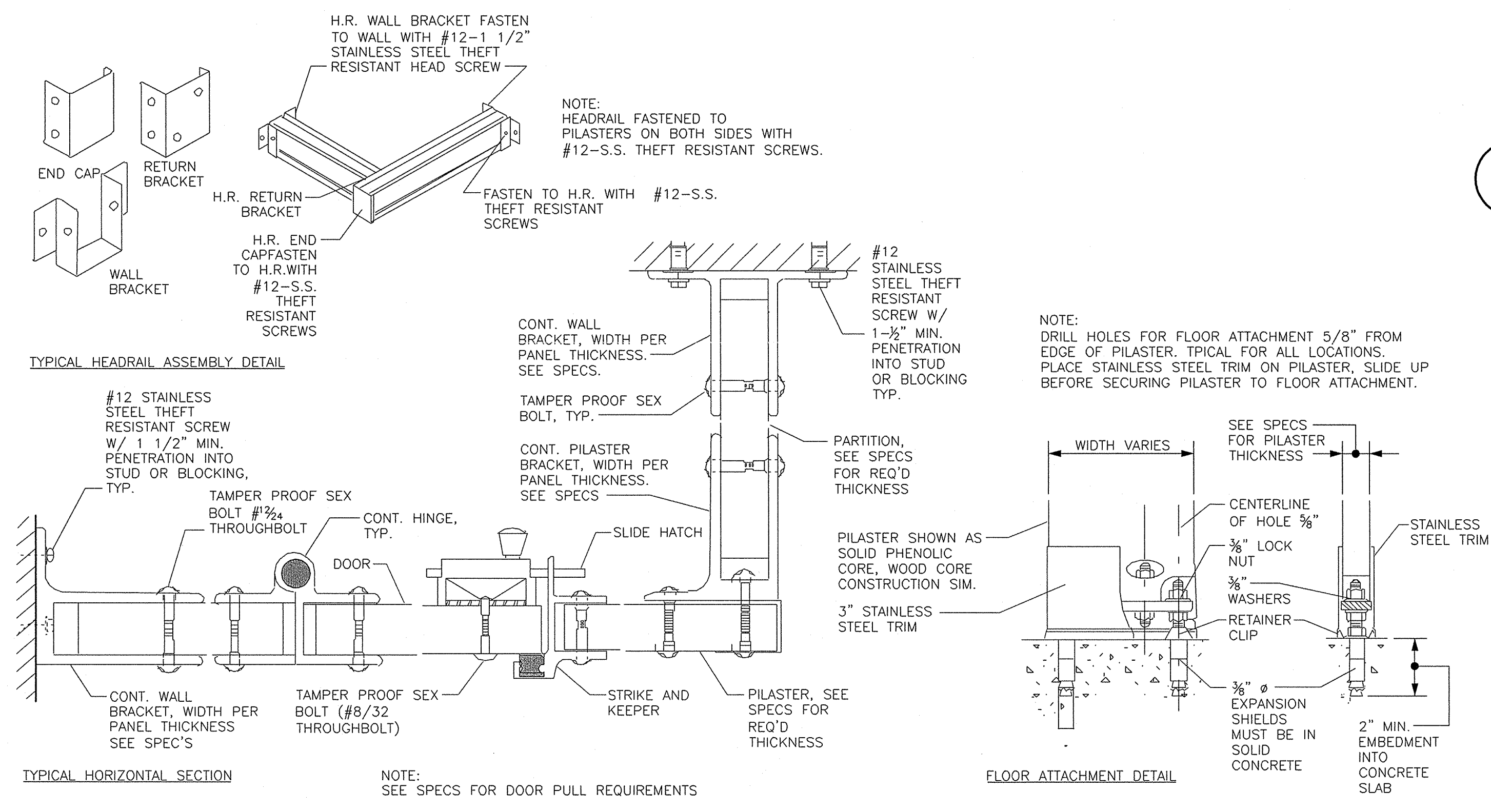
1 TYPICAL DOOR NOTES
 FOR REFERENCE ONLY

1/4"=1'-0"



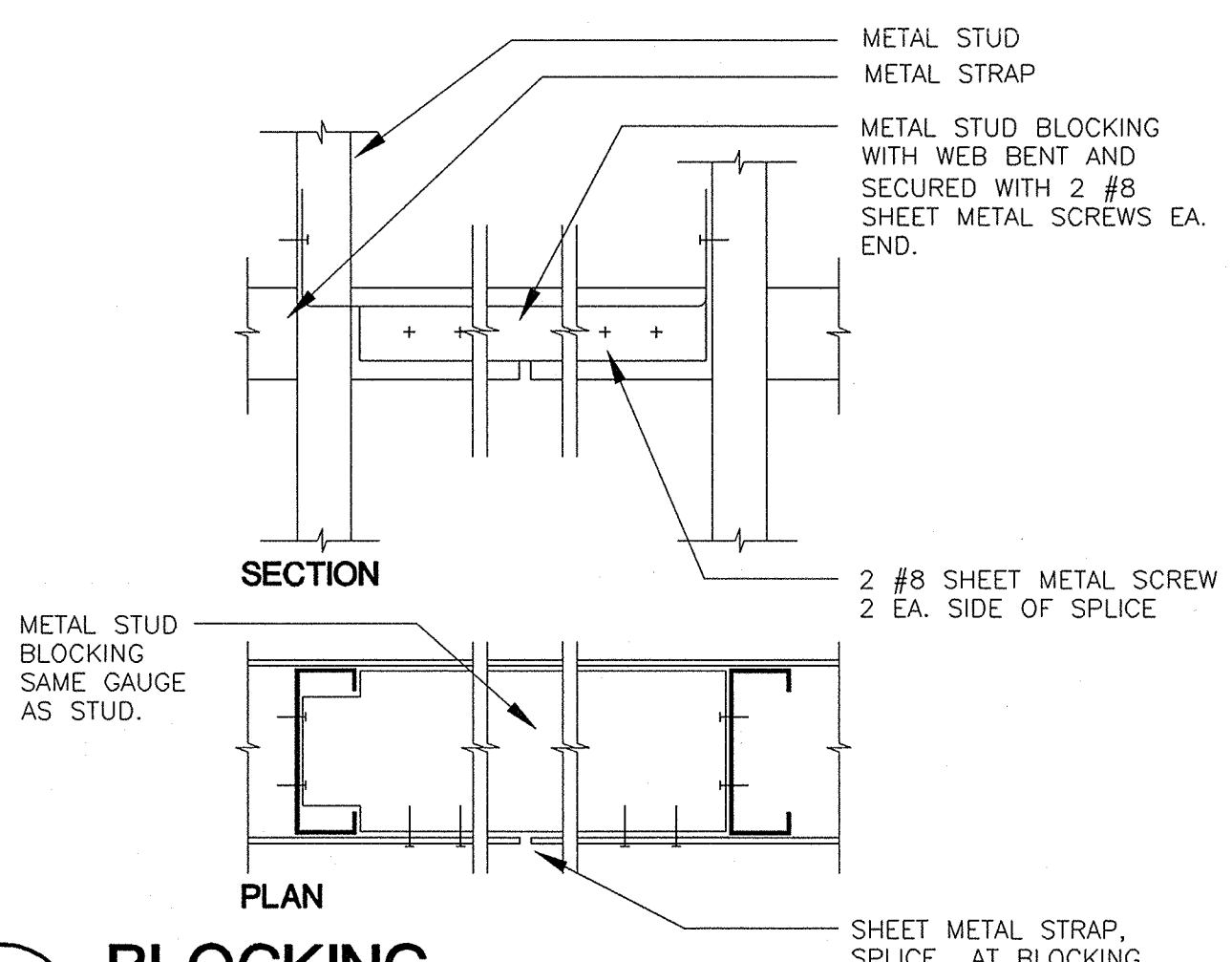
2 TYPICAL DOOR HEAD (JAMB SIM.)

3"=1'-0"



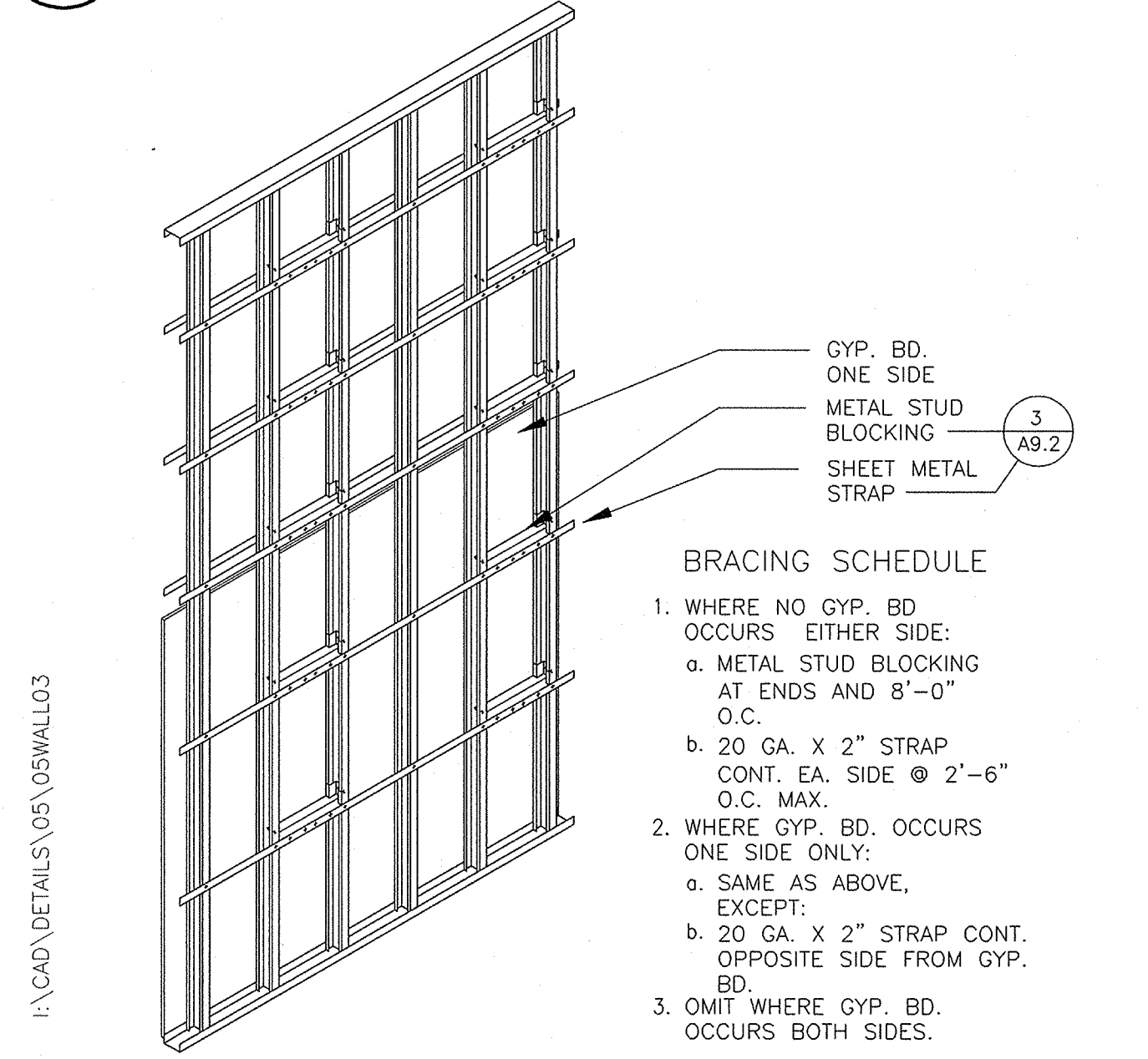
3 BLOCKING @ METAL STUDS

3"=1'-0"



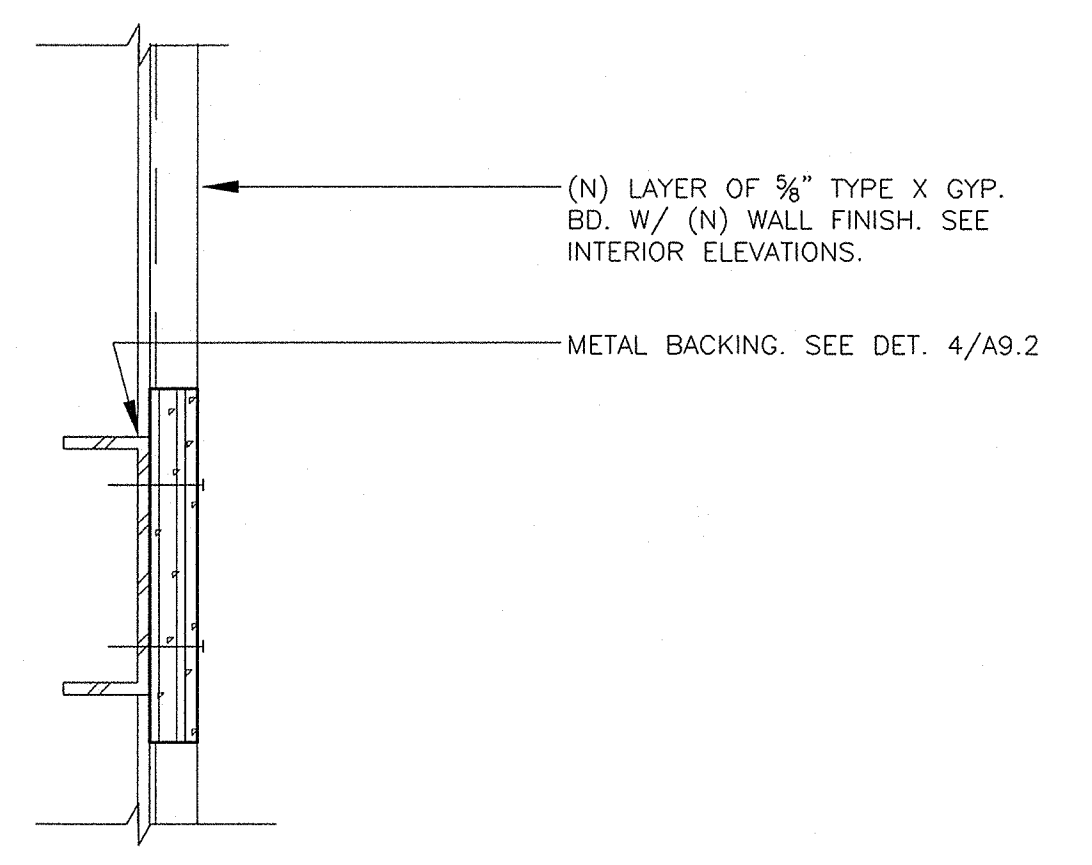
5 TOILET PARTITION DETAILS

N.T.S.



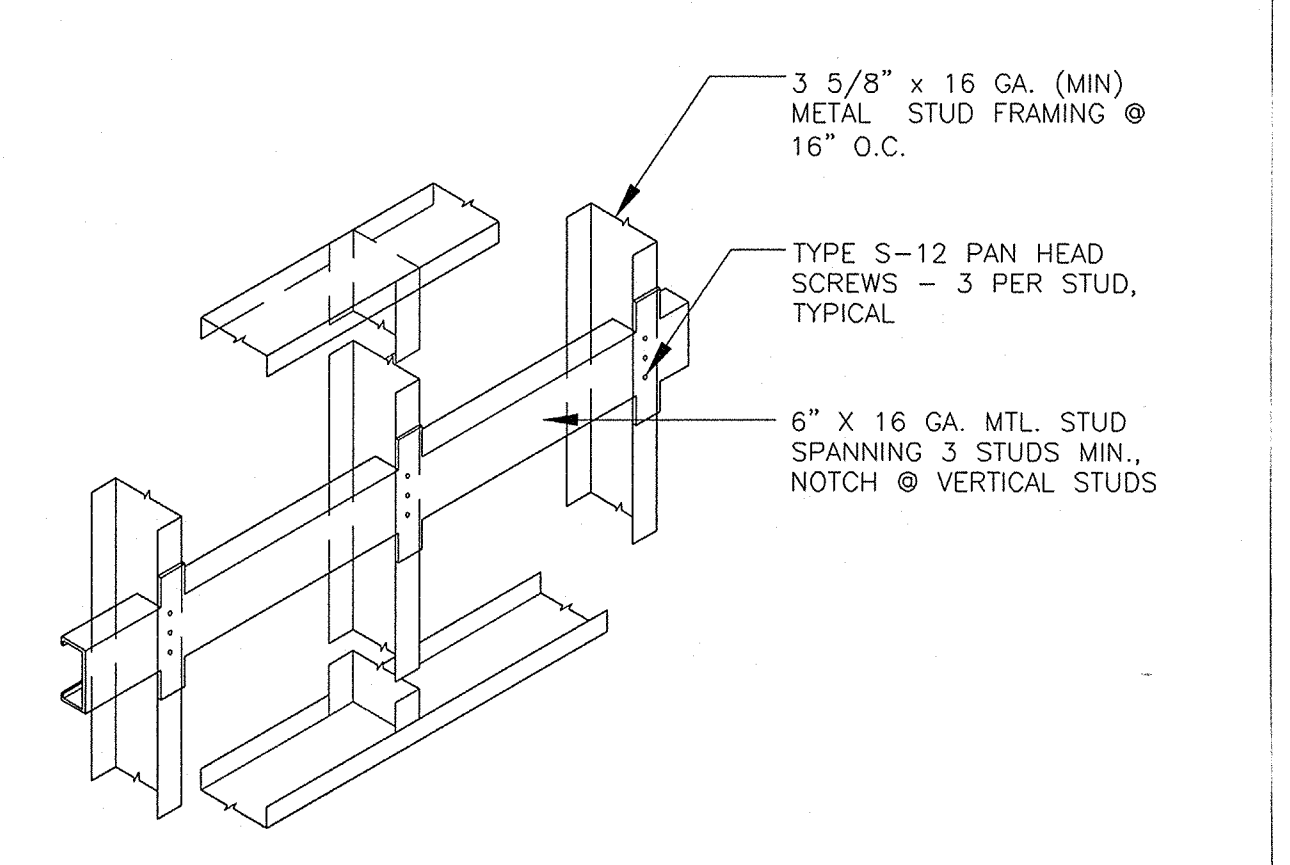
6 TYPICAL BACKING

3"=1'-0"



4 TYPICAL WALL BACKING

N.T.S.



NOTES

- METAL STUDS: 3-5/8" X 20 GA. @ 16" O.C. TYPICAL U.O.N.
- COMPENSATION CHANNEL: 14 GA., SIZE TO MATCH STUDS
- MINIMUM METAL STUDS PROPERTIES:

DEPTH	GAUGE	A(N)	Sx(N)	IX(N)
3 5/8"	20	0.237	0.255	0.482
3 5/8"	18	0.304	0.331	0.610
3 5/8"	16	0.379	0.399	0.753
3 5/8"	14	0.472	0.511	0.928
6"	20	0.319	0.512	1.590
6"	18	0.411	0.665	2.026
6"	16	0.513	0.807	2.510
6"	14	0.641	1.035	3.109
8"	20	0.388	0.663	3.211

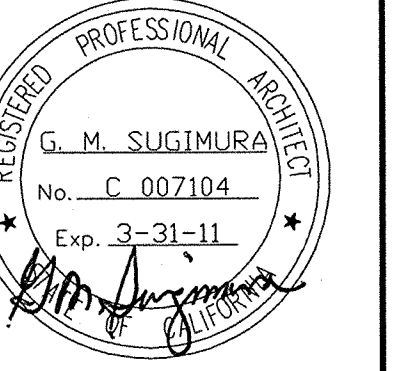
 NOTE: SECTION PROPERTIES ARE BASED ON THE METAL STUD MANUFACTURER'S ASSOCIATION (CBO REPORT NO. 4943 (SEPT. 2001))
- TRACK: 16 GA., SIZE TO MATCH STUDS
- ALL STUD TRACK TO CONCRETE SHALL HAVE P.A.D. @ 16" O.C.

9 METAL FRAMING NOTES

N.T.S.

7 TYPICAL BRACING

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



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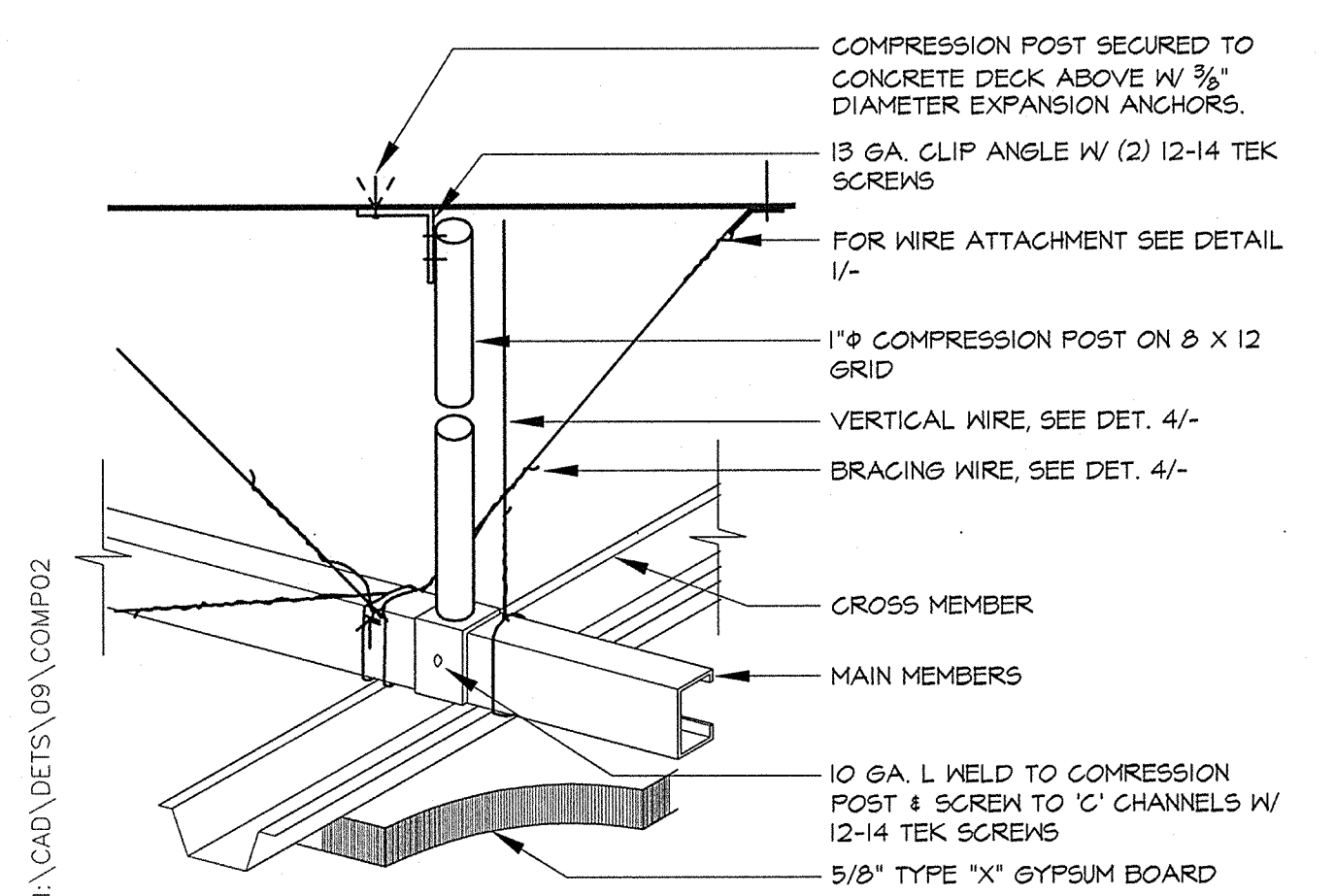
GYPSUM BOARD CEILING DETAILS
 COLLEGE OF SAN MATEO BUILDING 9 RESTROOM REMODEL
 SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT
 4700 WEST HILLSDALE BLVD.
 SAN MATEO, CALIFORNIA

REVISIONS

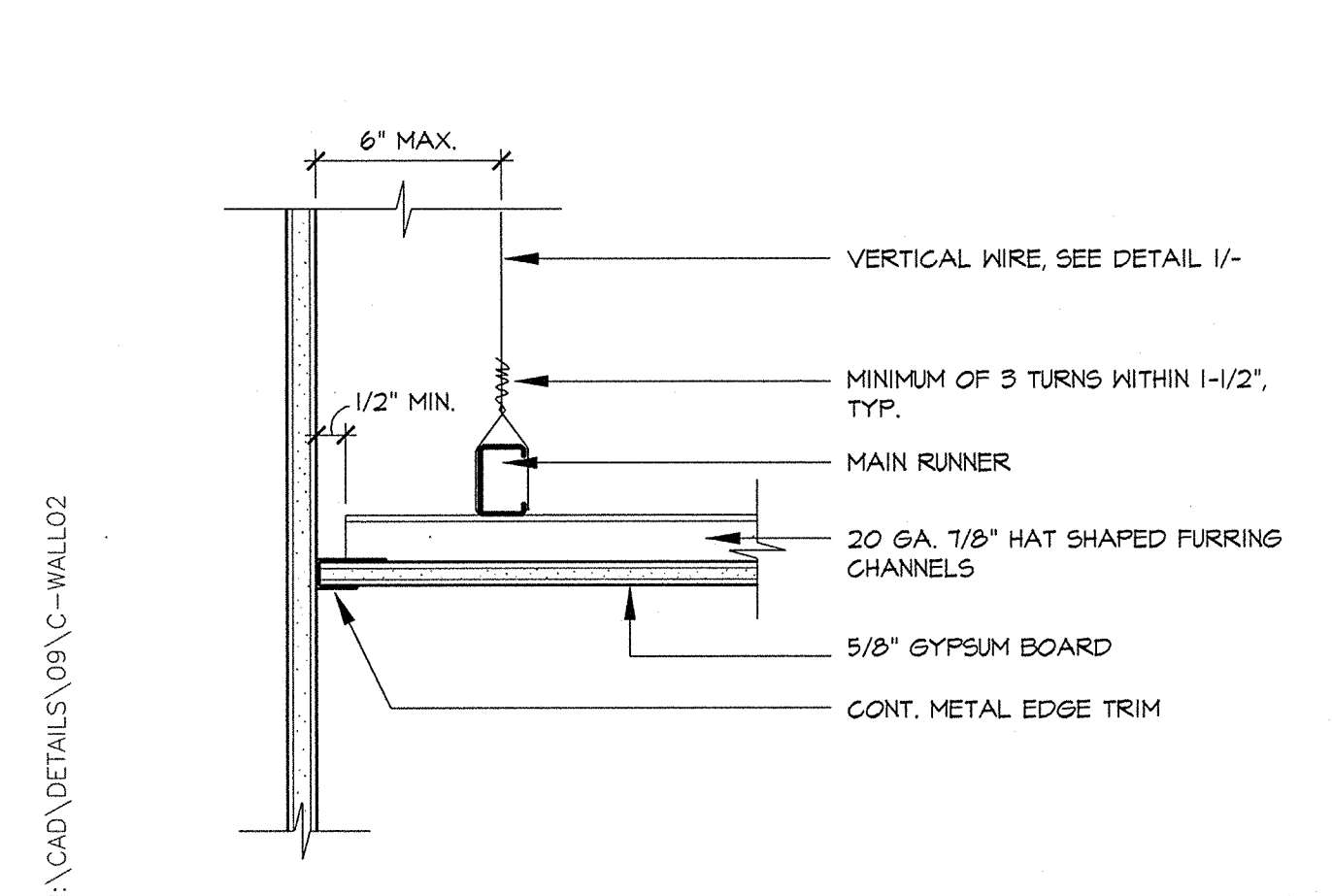
NO.	ITEM	DATE

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 DRAWN BY: _____
 CHECKED BY: _____ SV
 JOB NO: 2869 DATE: 07/07/2009

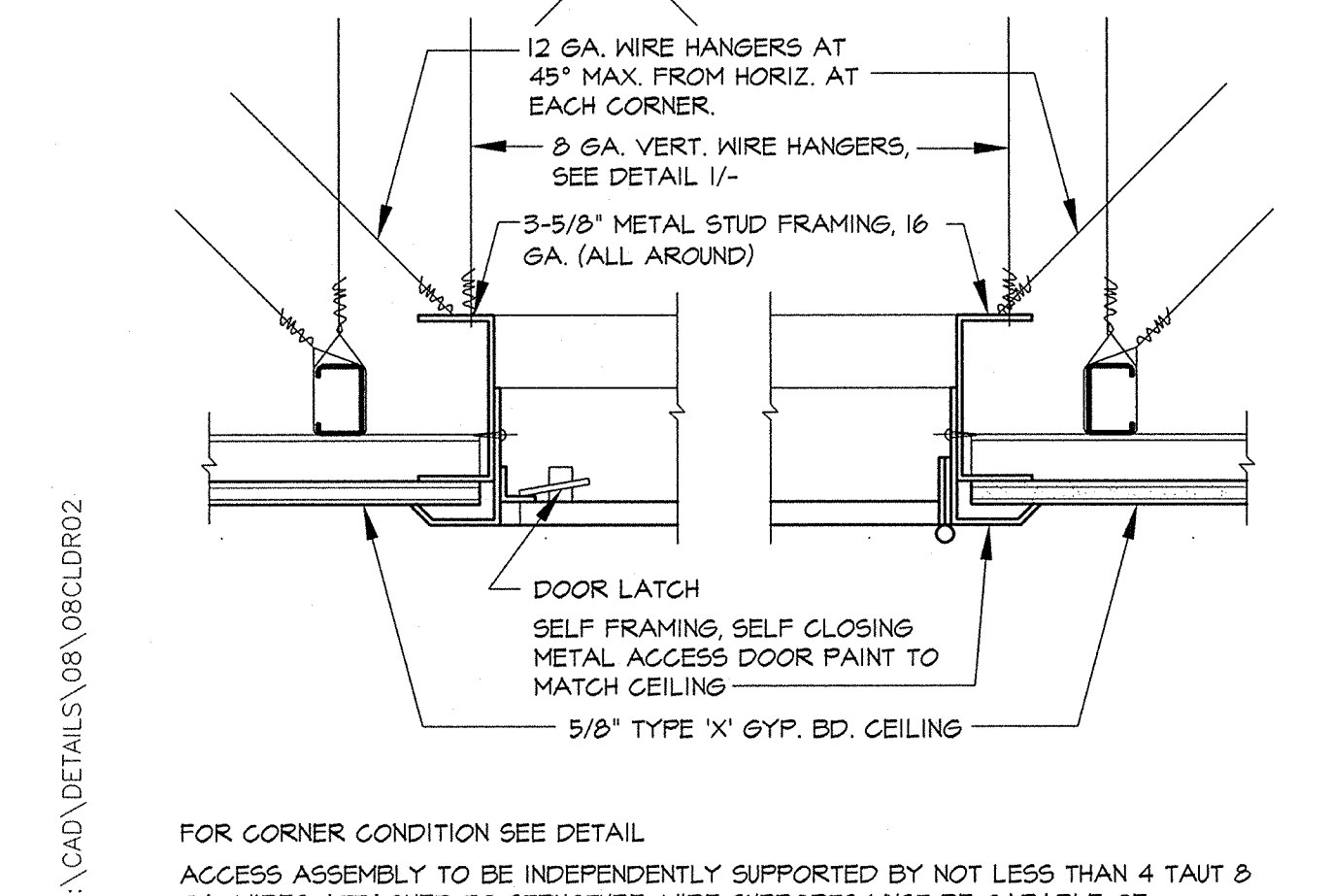
DSA SUBMITTAL - 07/07/2009



2 COMPRESSION MEMBER GYPSUM BOARD N.T.S.



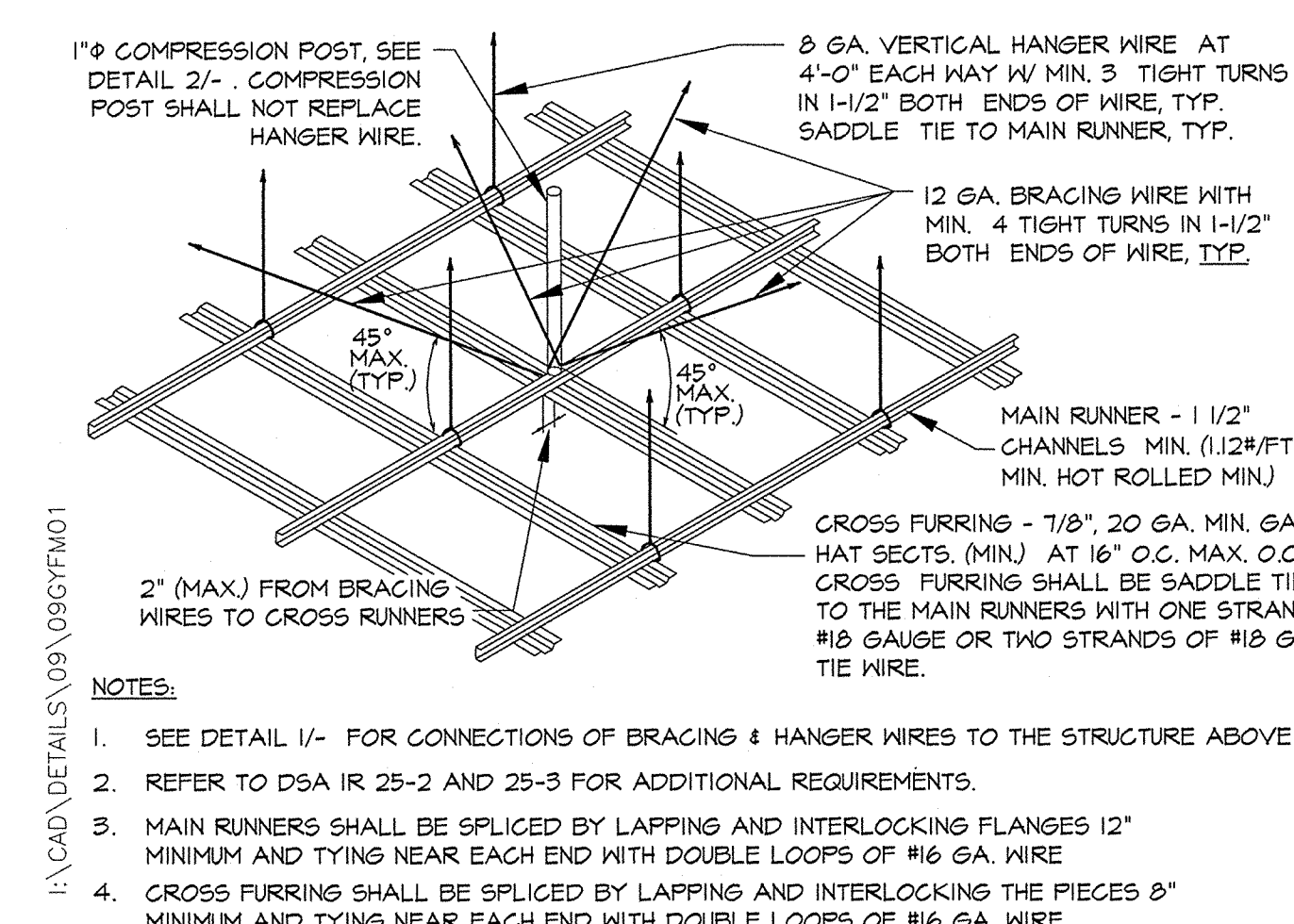
6 CEILING AT WALL SECTION 3\"/>



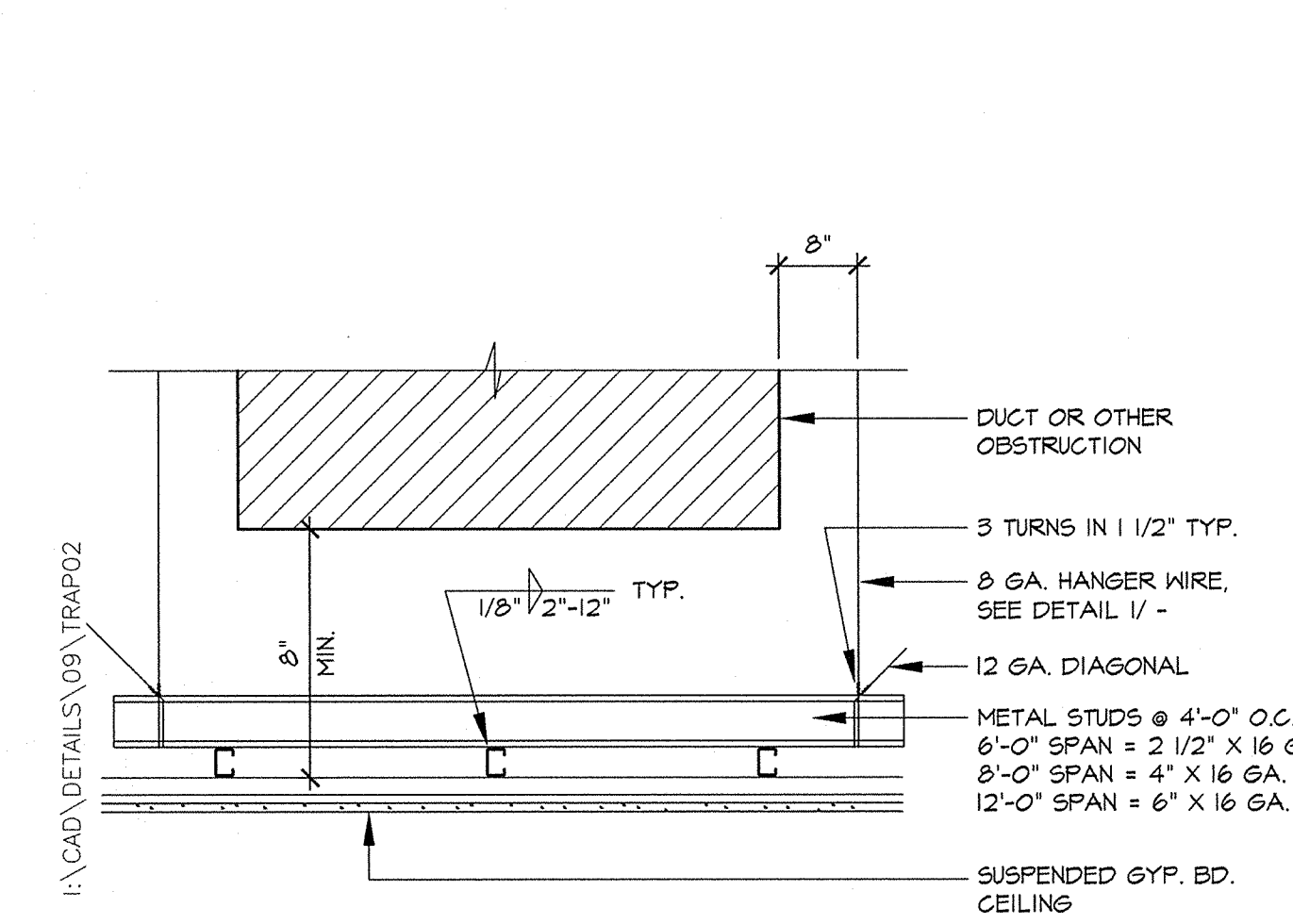
10 NON-RATED ACCESS PANEL GYPSUM BOARD 3\"/>



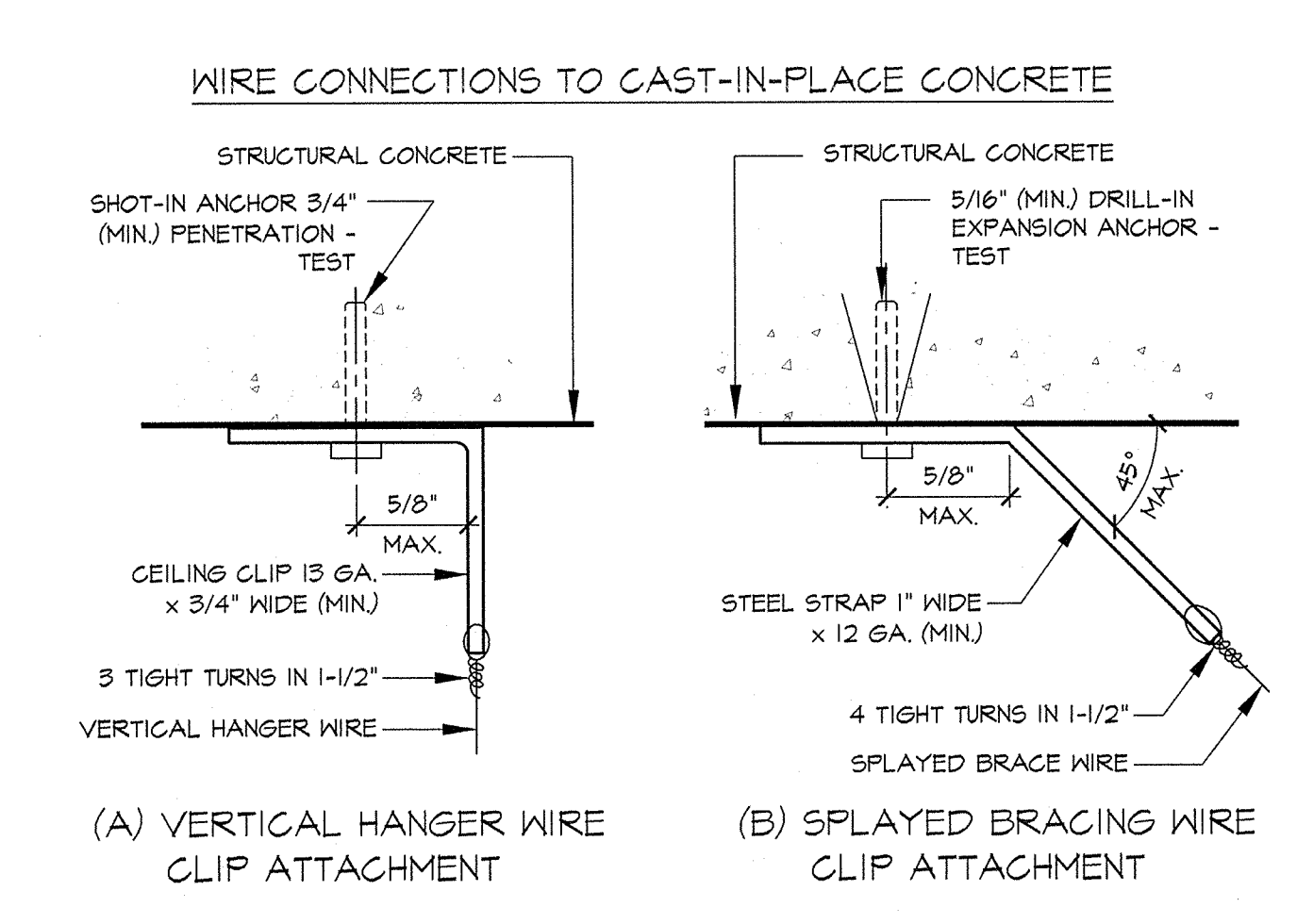
2 WIRE CONNECTIONS TO CAST-IN-PLACE CONCRETE



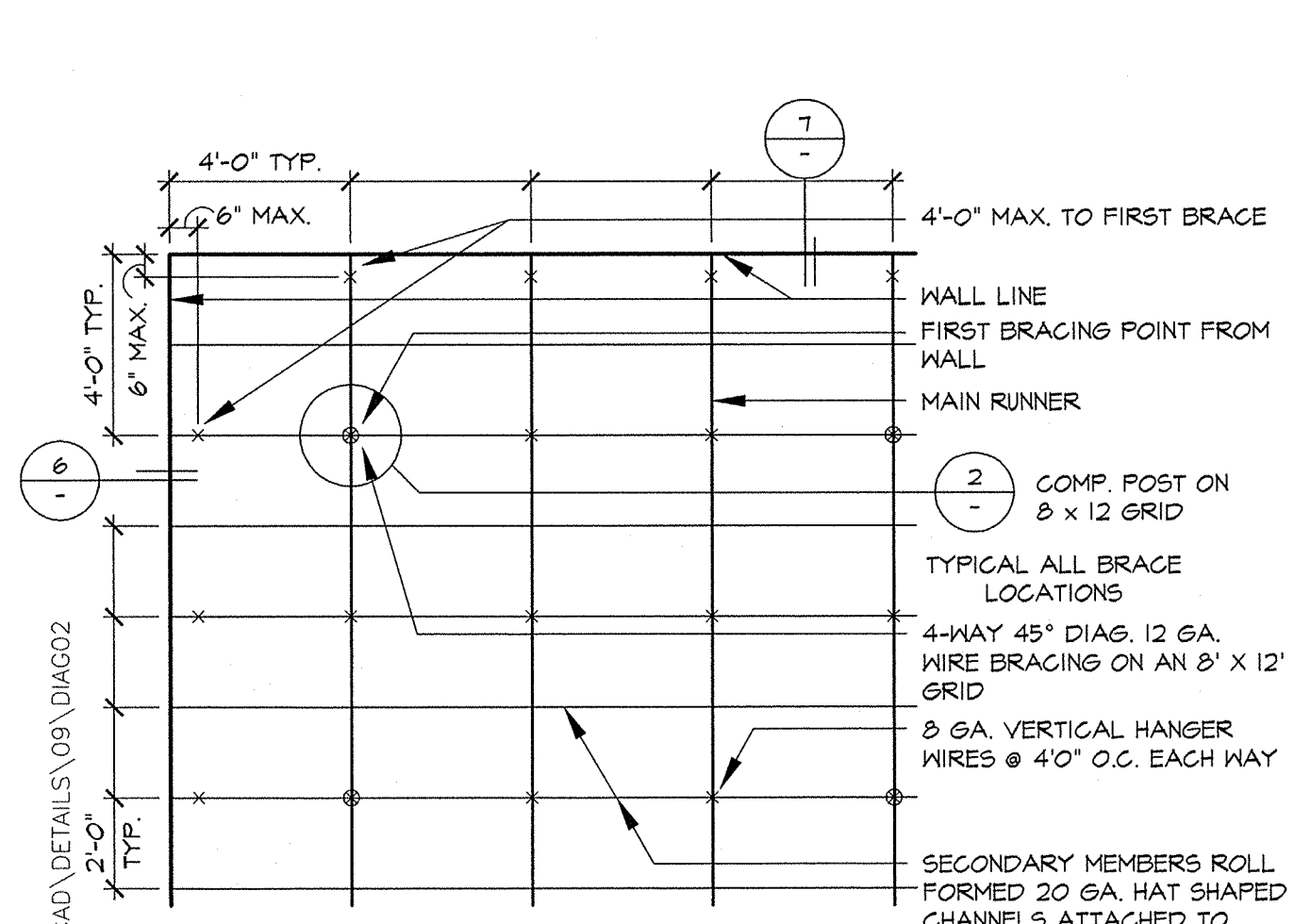
5 DIAGRAMATIC ATTACHMENT (GYPSUM BOARD) 3\"/>



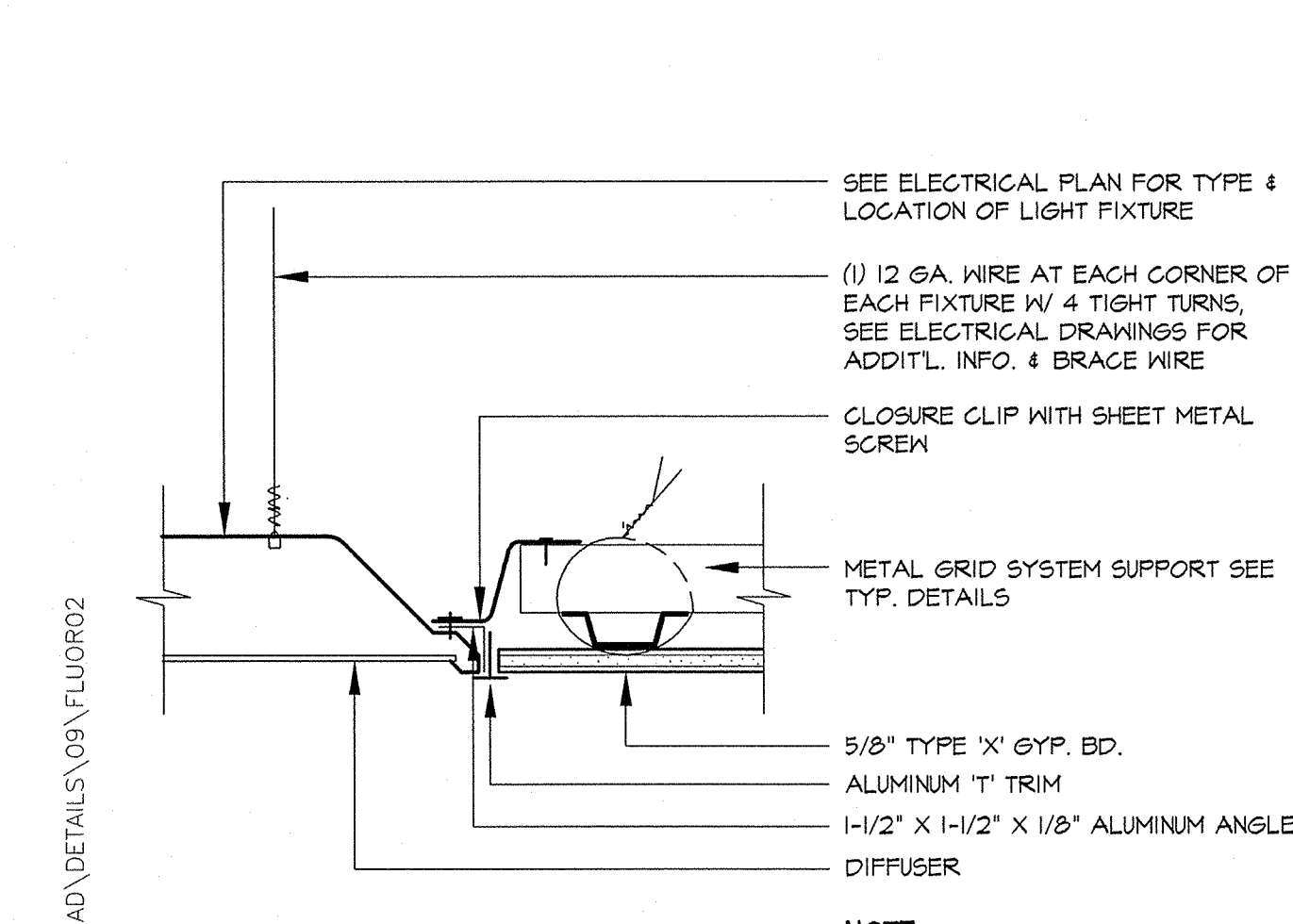
9 TRAPEZE DETAIL GYPSUM BOARD N.T.S.



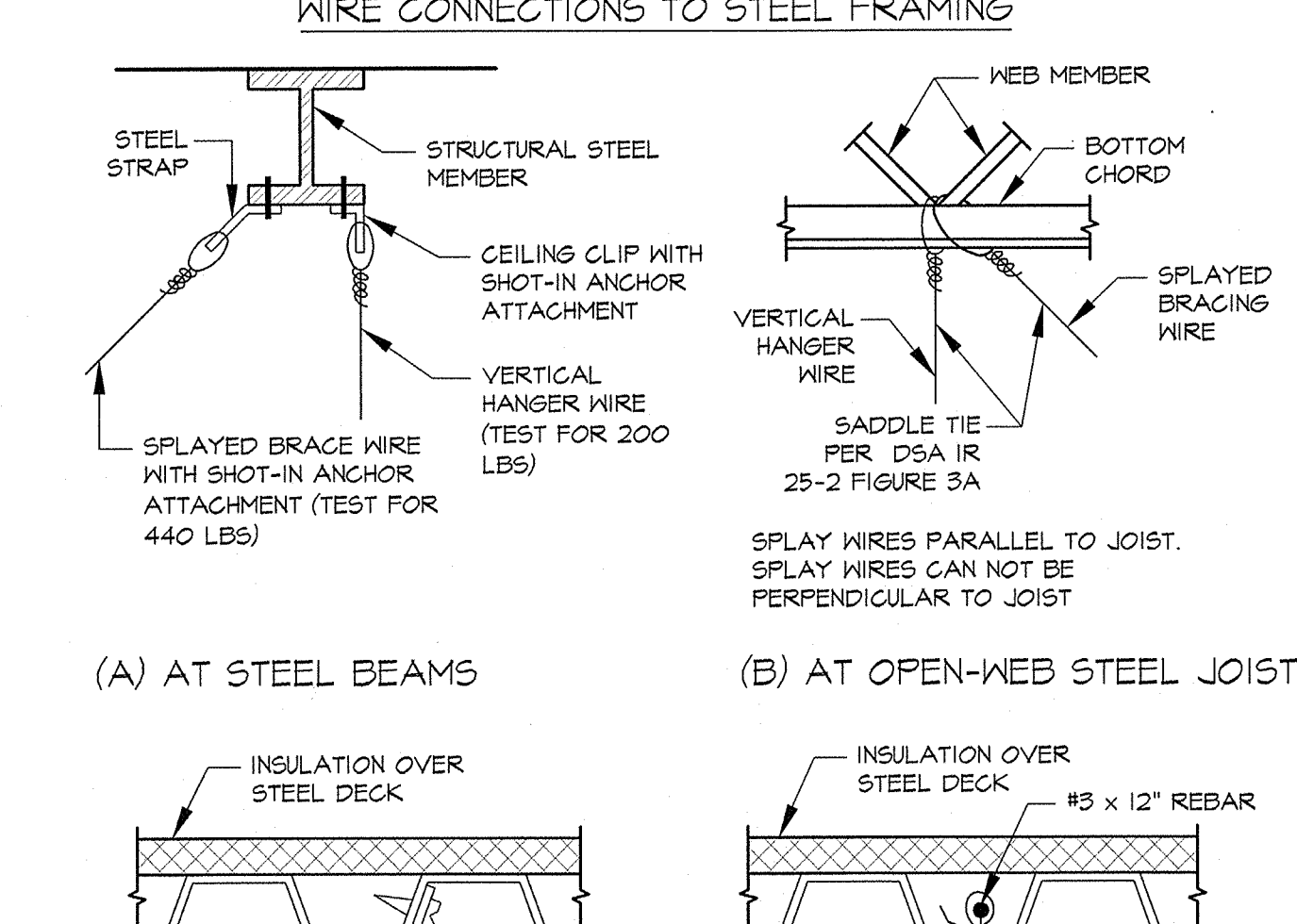
4 DIAGRAMATIC CEILING PLAN N.T.S.



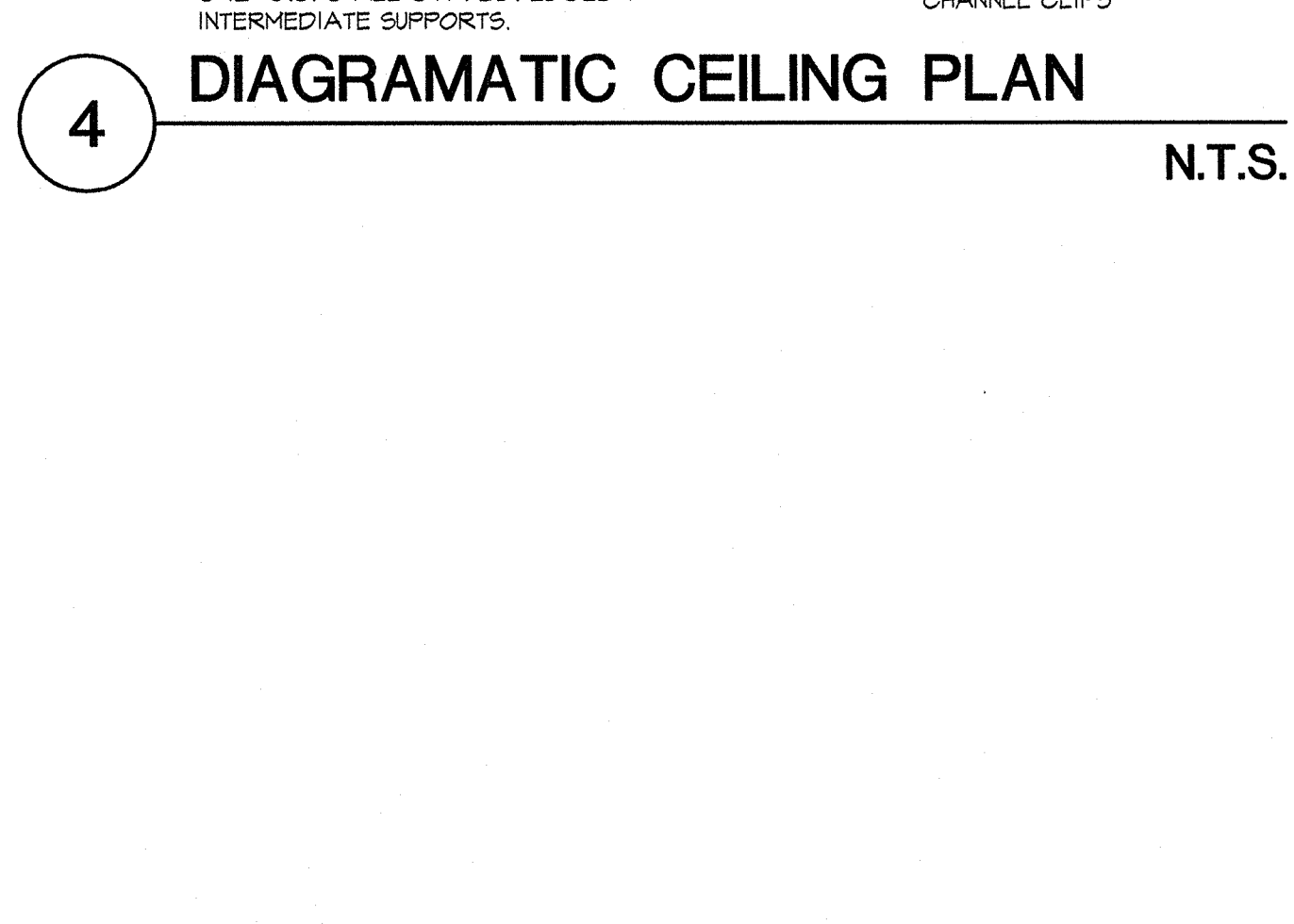
12 SPLICE DETAIL FOR CROSS FURRING 3\"/>



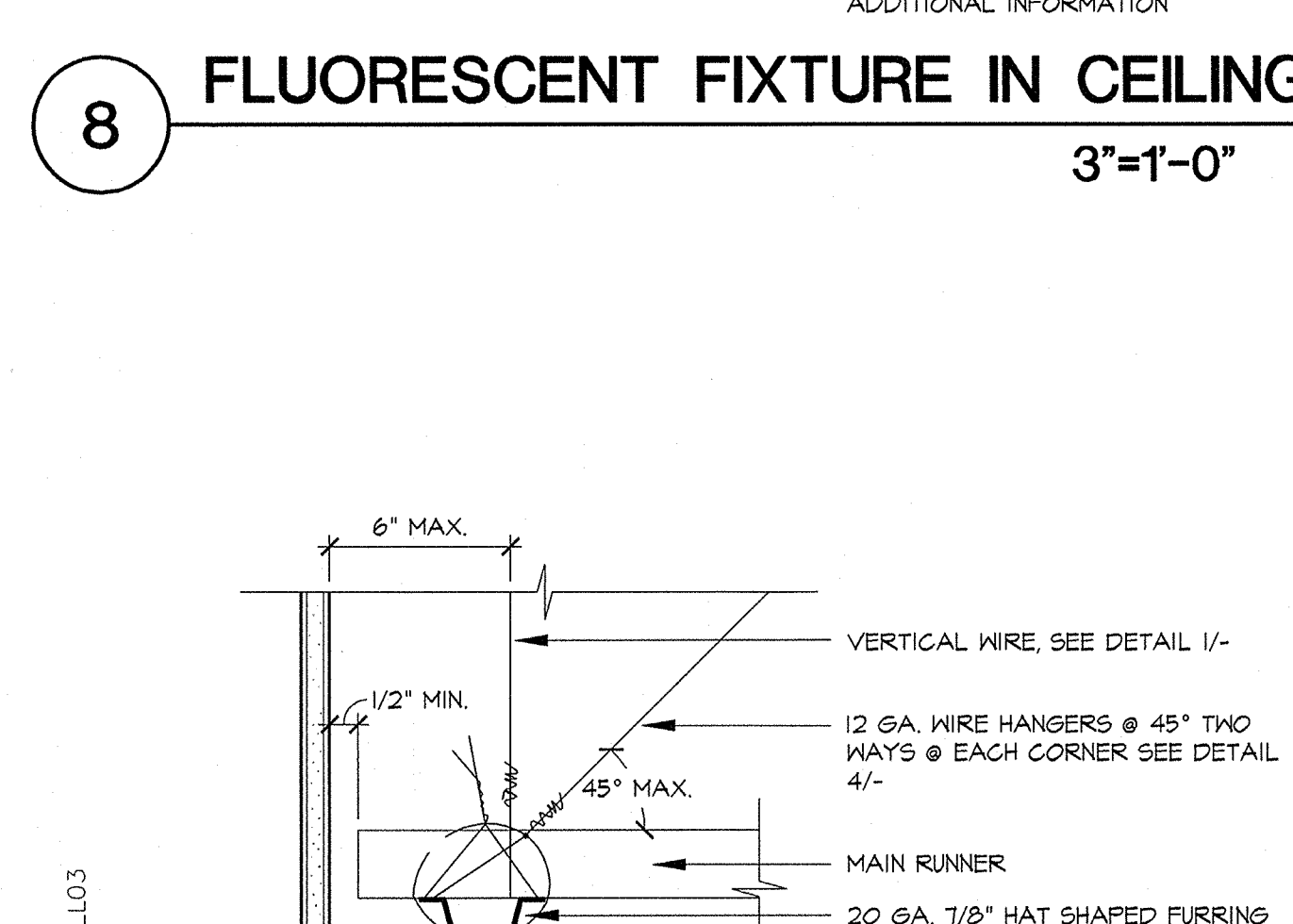
8 FLUORESCENT FIXTURE IN CEILING 3\"/>



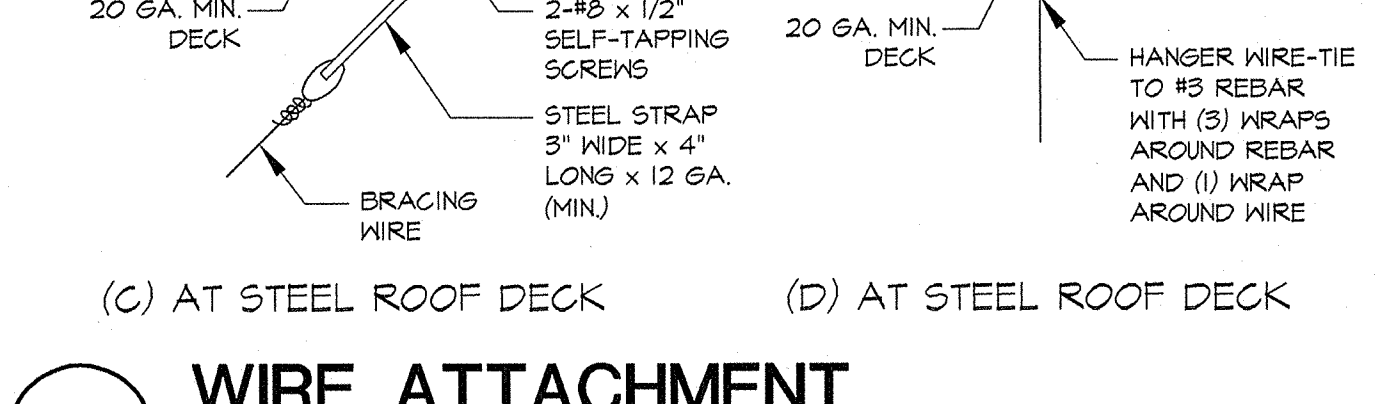
1 WIRE ATTACHMENT N.T.S.



4 DIAGRAMATIC CEILING PLAN N.T.S.



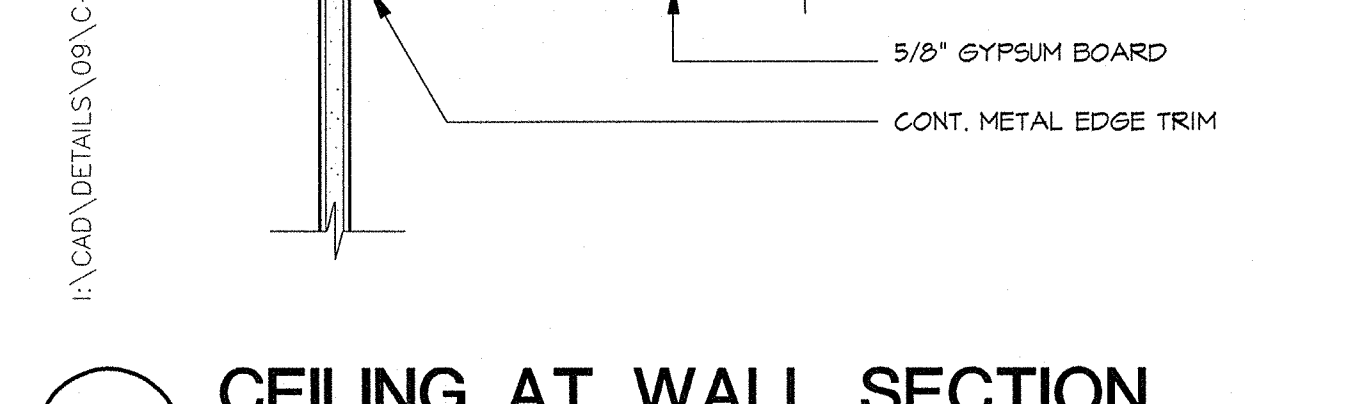
7 CEILING AT WALL SECTION 3\"/>



3 NOT USED



11 SPLICE DETAIL FOR MAIN RUNNER 3\"/>



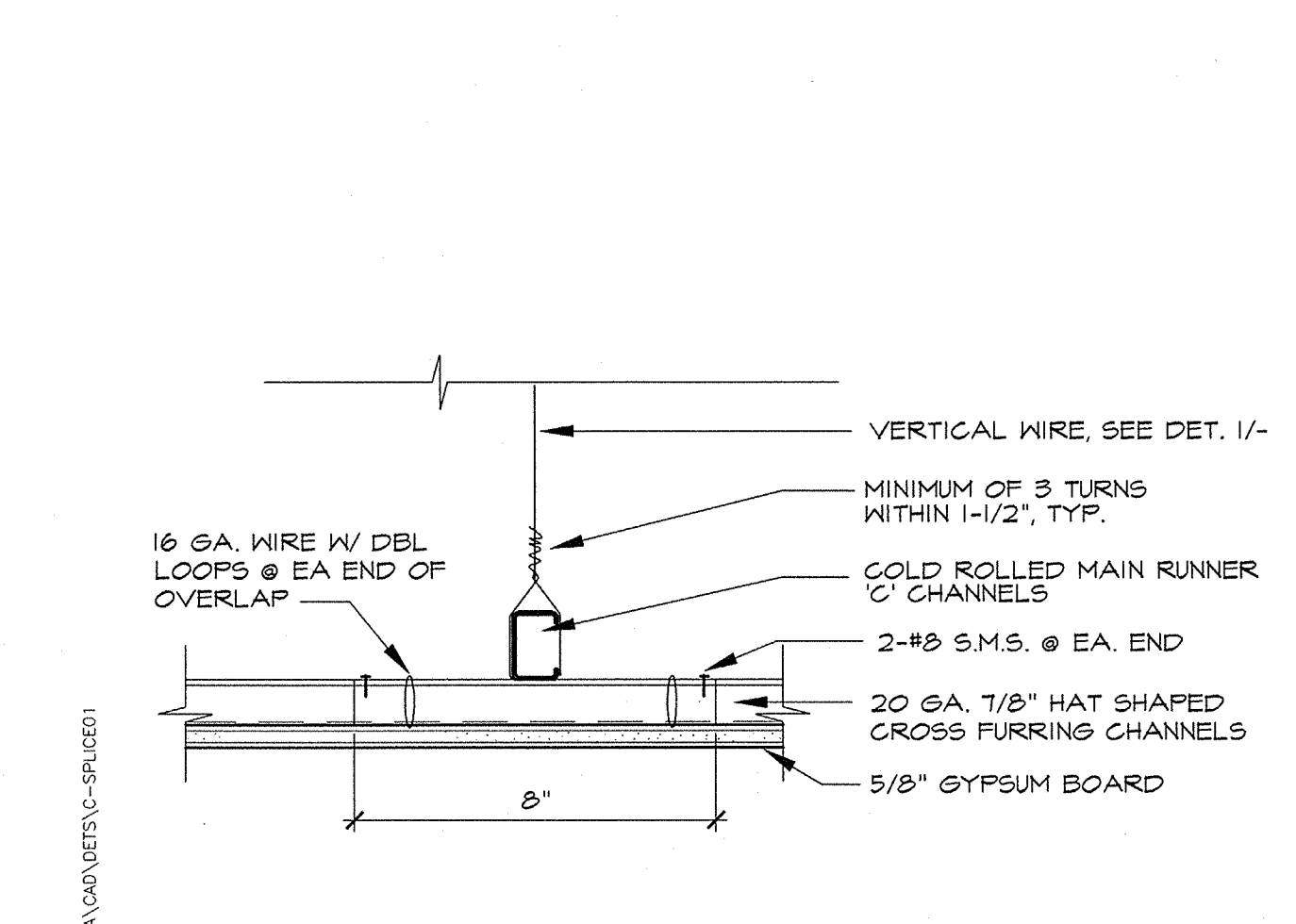
10 NON-RATED ACCESS PANEL GYPSUM BOARD 3\"/>



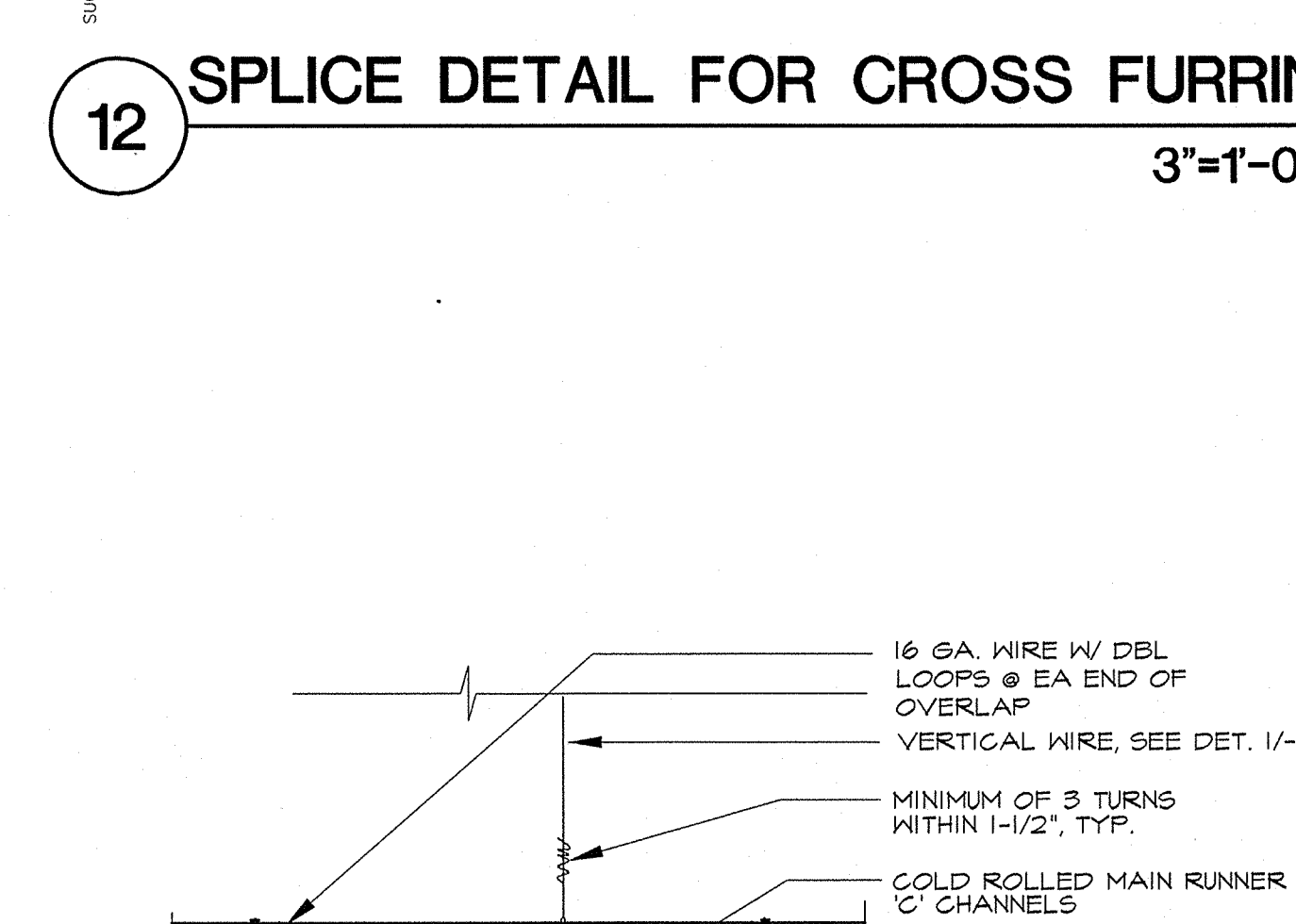
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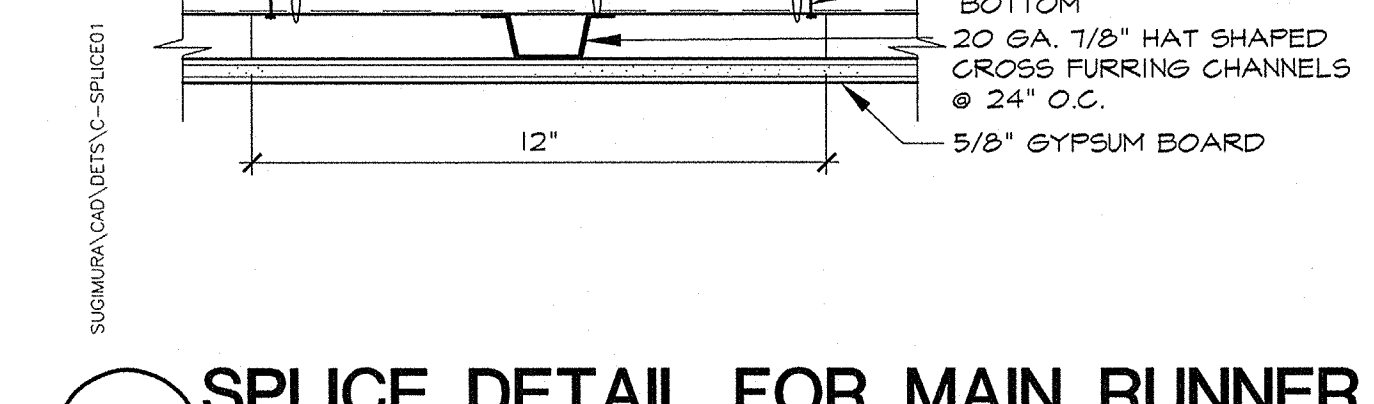
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12 SPLICE DETAIL FOR CROSS FURRING 3\"/>



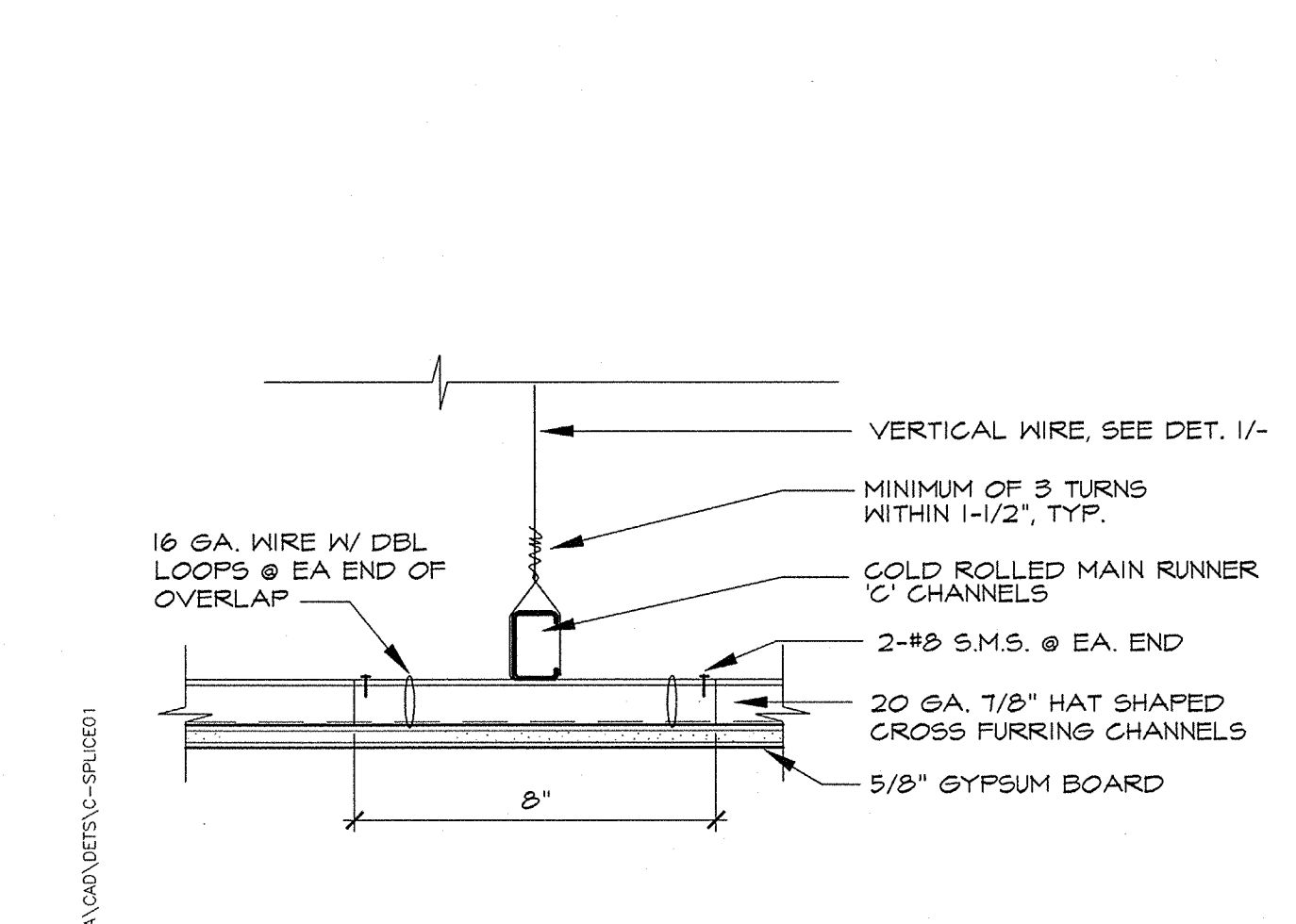
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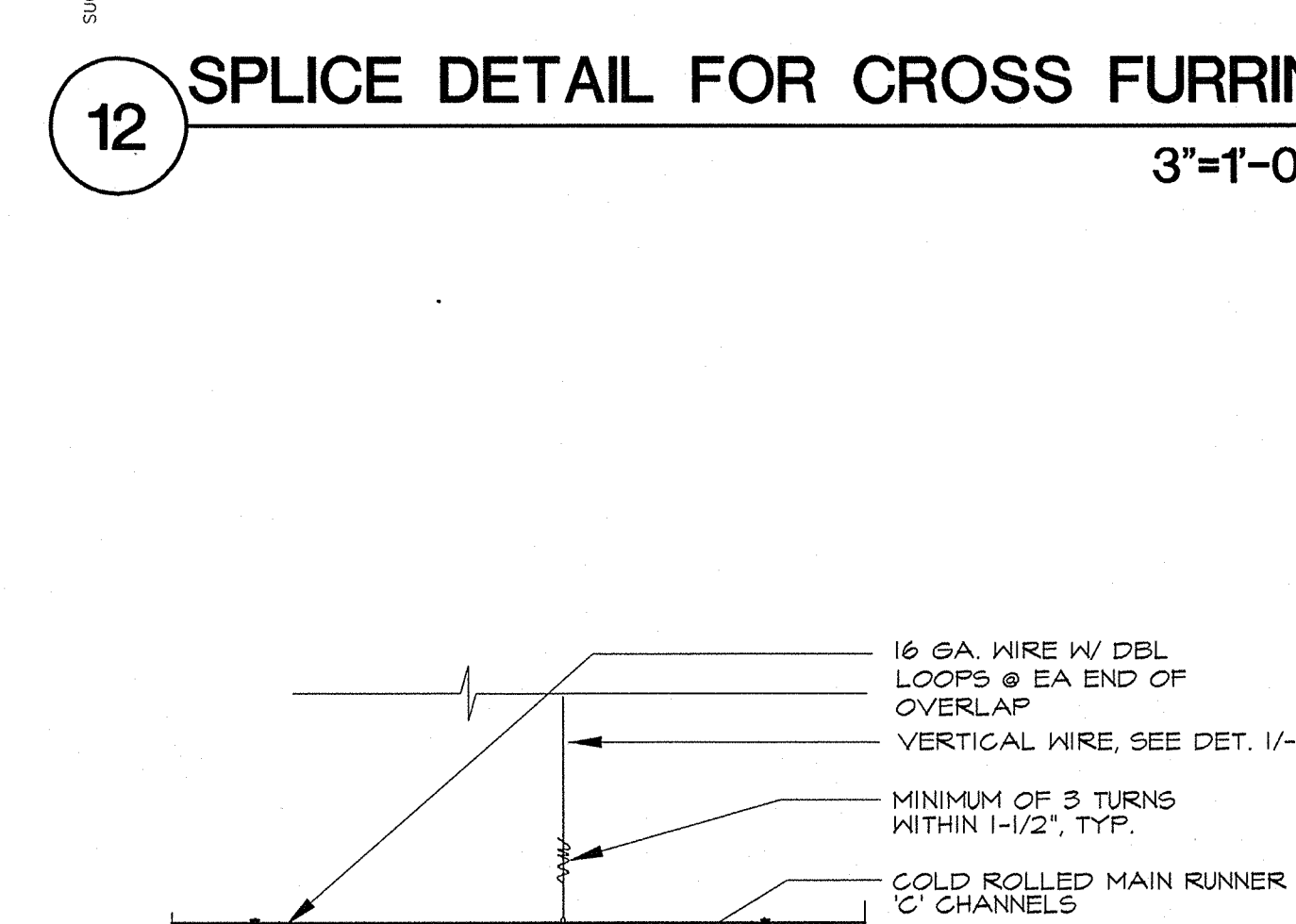
11 SPLICE DETAIL FOR MAIN RUNNER 3\"/>



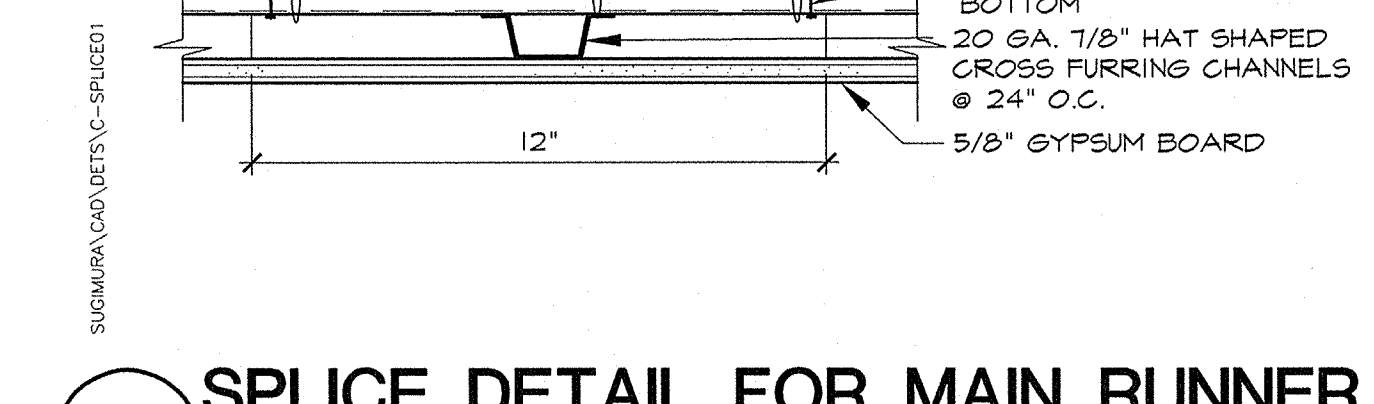
9 TRAPEZE DETAIL GYPSUM BOARD N.T.S.



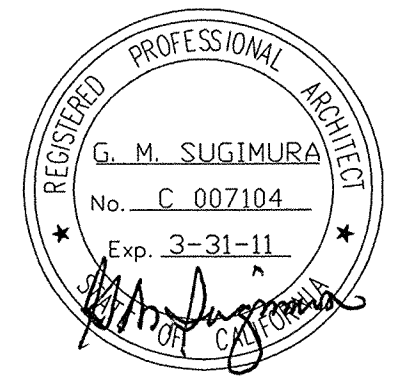
12 SPLICE DETAIL FOR CROSS FURRING 3\"/>



8 FLUORESCENT FIXTURE IN CEILING 3\"/>



11 SPLICE DETAIL FOR MAIN RUNNER 3\"/>



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 APRIL 01 01-110504
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WALL DETAILS

COLLEGE OF SAN MATEO BUILDING 9 RESTROOM REMODEL
 SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT
 1700 WEST HILLSDALE BLVD.
 SAN MATEO, CALIFORNIA

REVISIONS

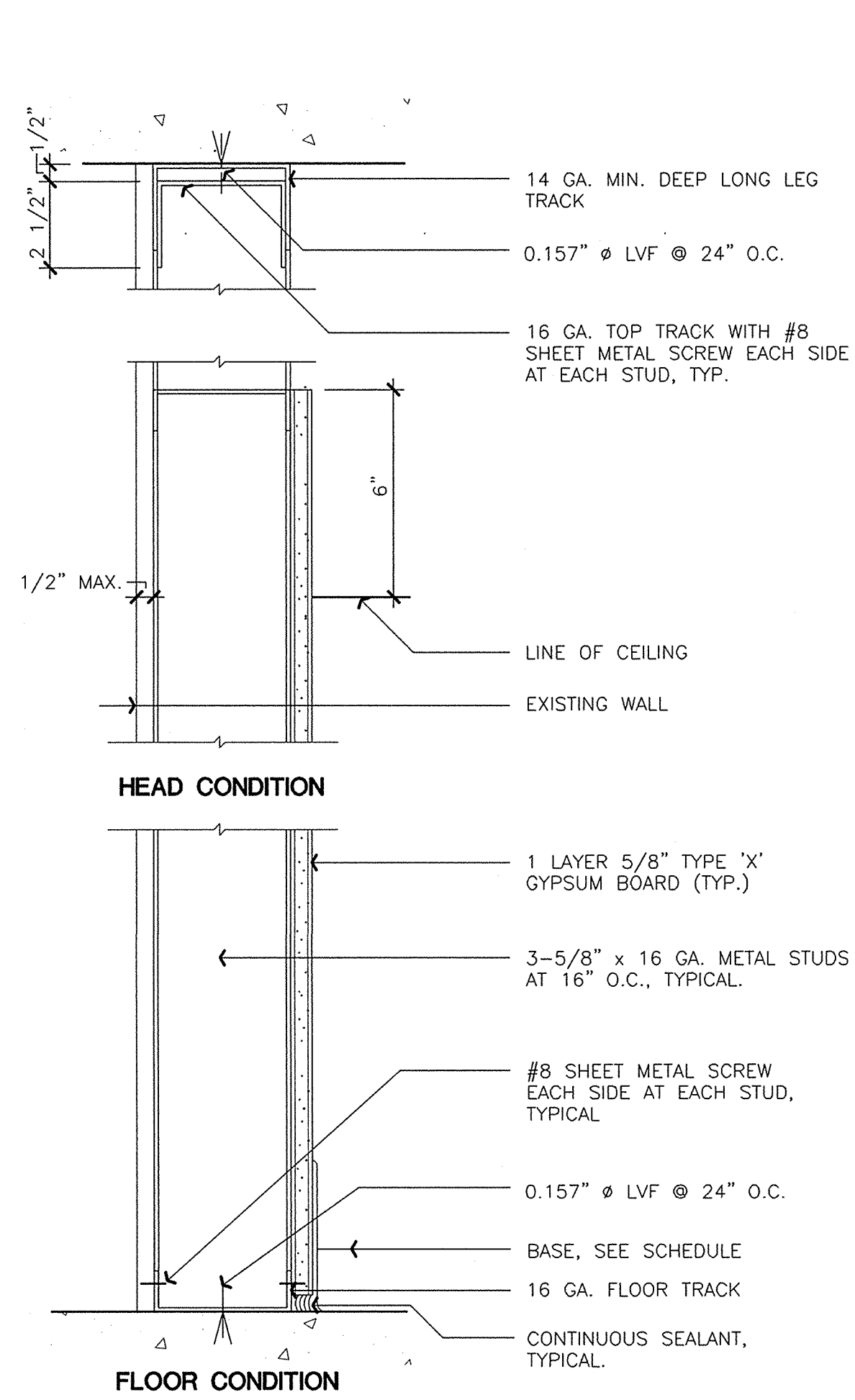
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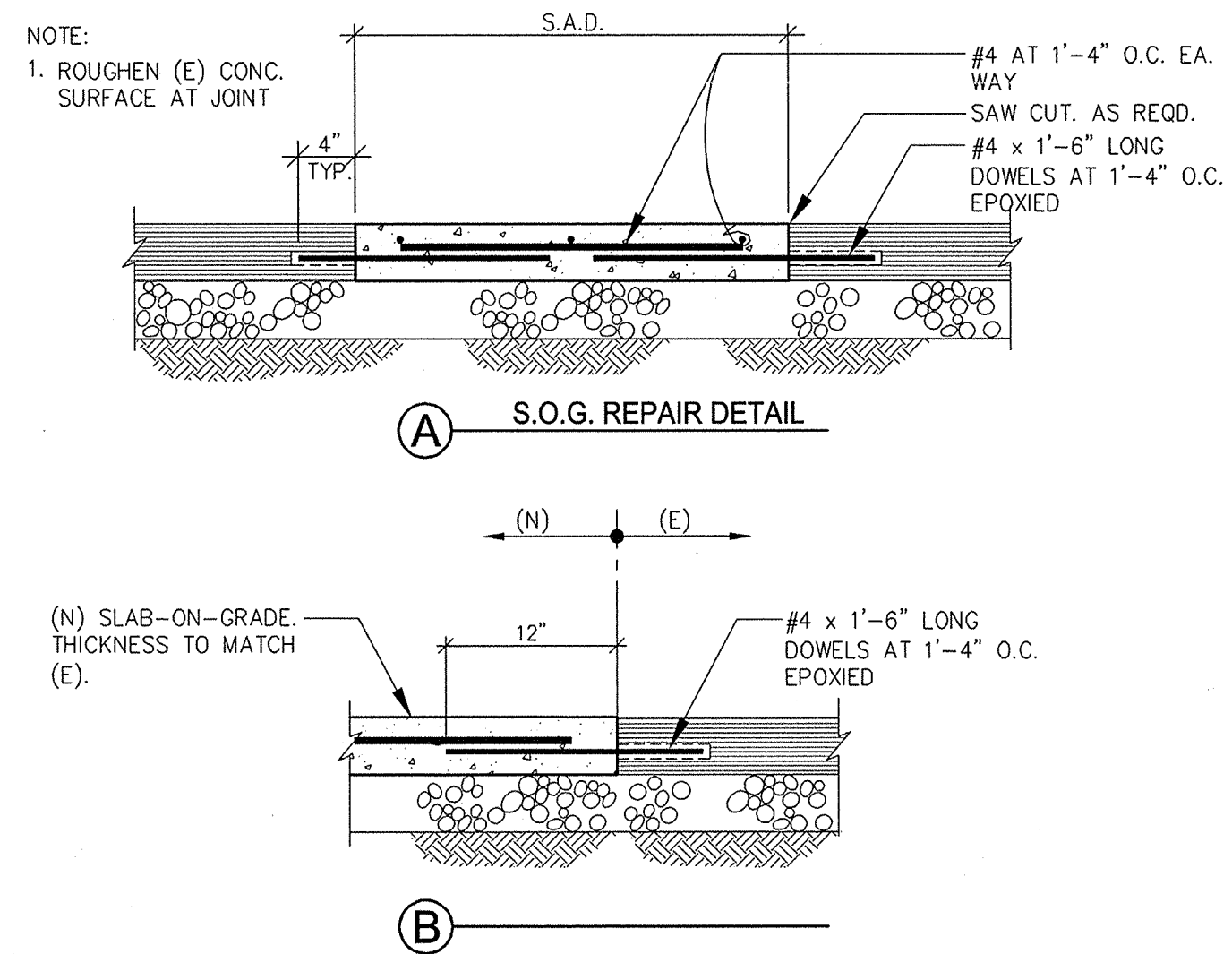
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 CHECKED BY: SV
 JOB NO: 2869 DATE: 07/07/2009

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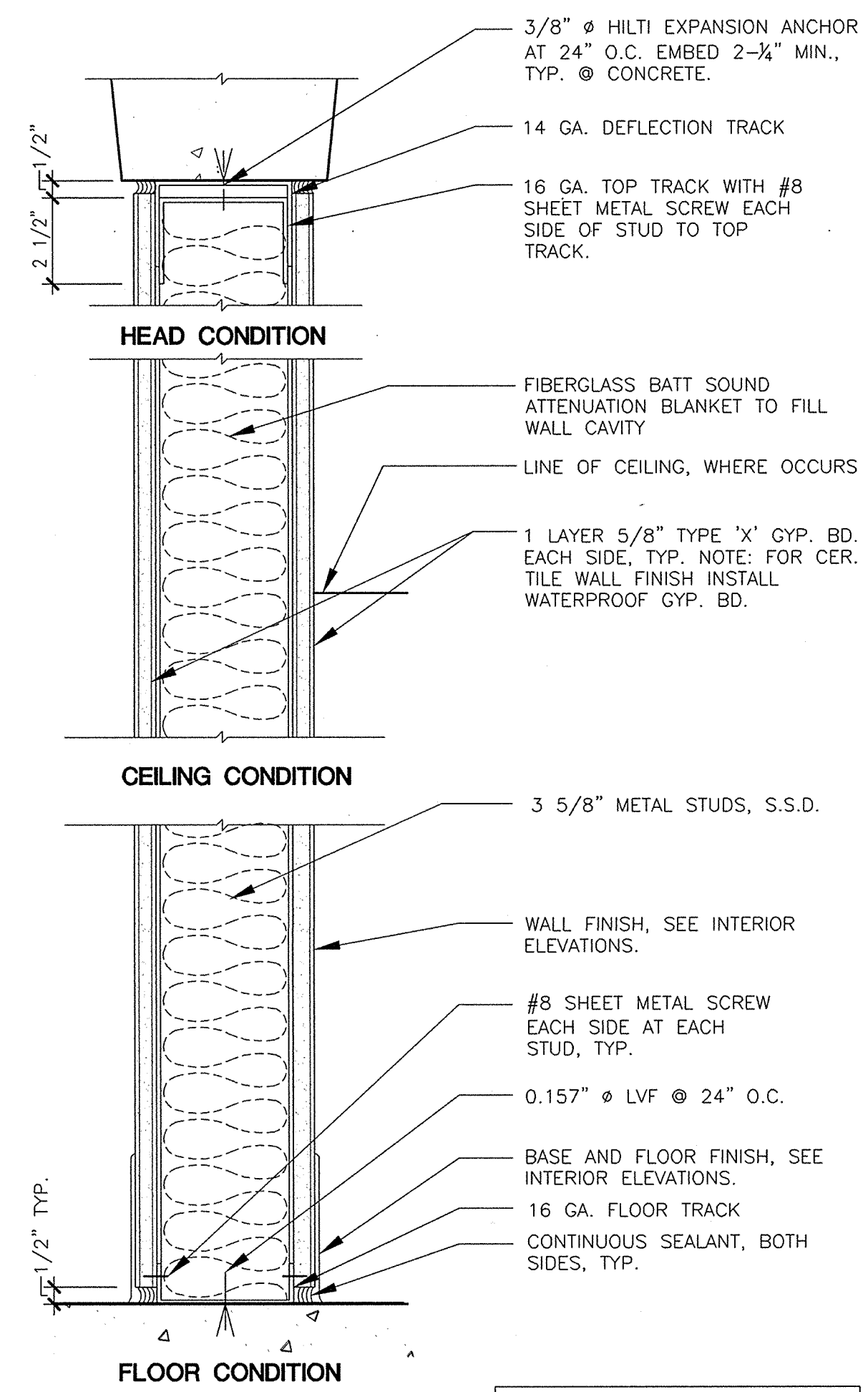
OF 5# SHEETS



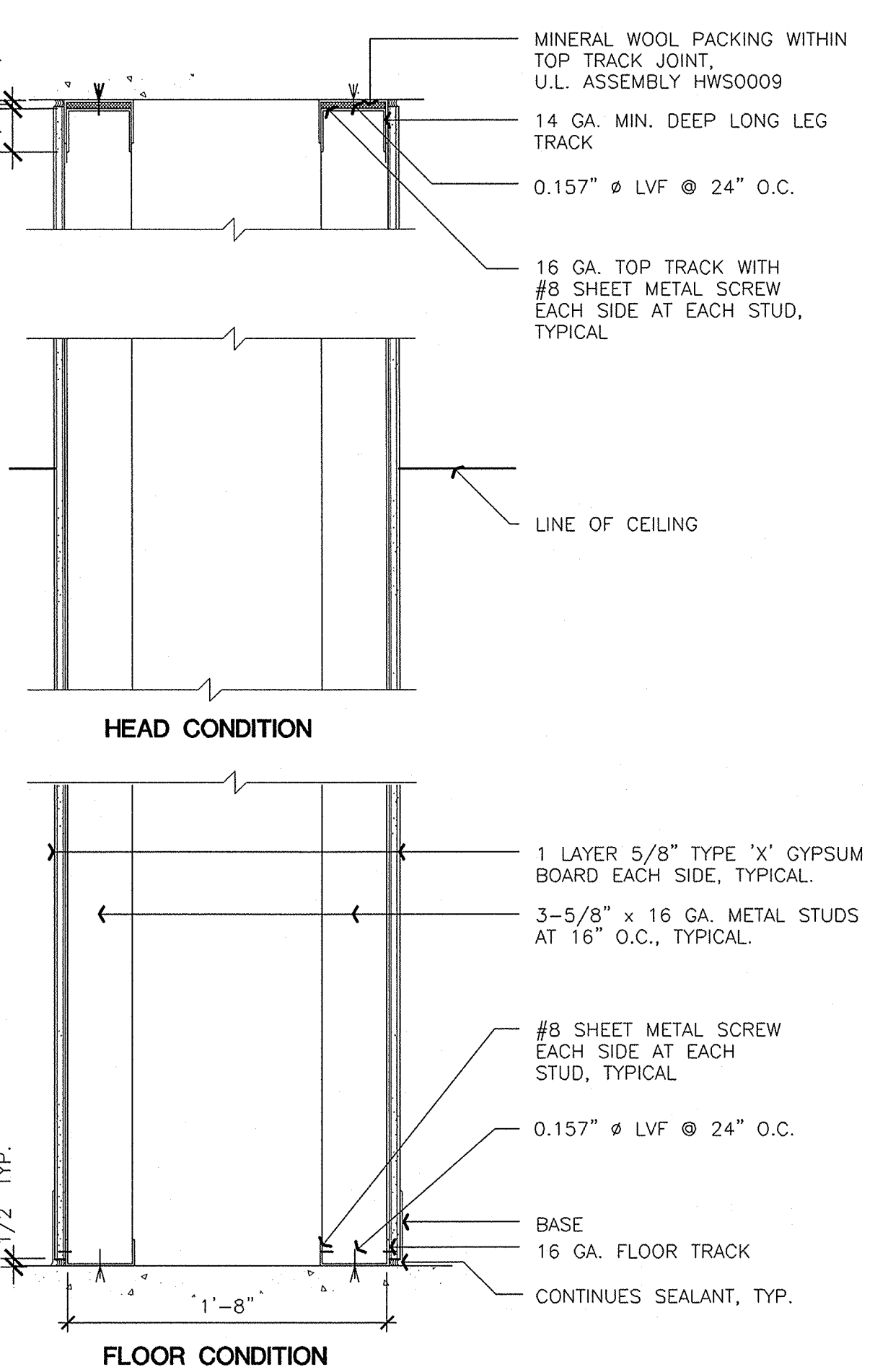
3 WALL FURRING 3"=1'-0"



4 SLAB REPAIR JOINTS @ (E) CONC. SLAB ON GRADE 1"=1'-0"



1 TYP. FULL HEIGHT PARTITION 3"=1'-0"



2 PARTITION @ PLUMBING WALL 1 1/2"=1'-0"

- EPOXY DOWELS**
- A. EPOXY ADHESIVE SHALL BE HILTI HIT-RE 500-SD ADHESIVE ANCHOR (ESR-2322) OR EQUAL PRODUCT. ALTERNATIVE PRODUCTS MUST BE SUBMITTED TO A.O.R. FOR SUBSTITUTION PRIOR TO INSTALLATION PER SPECIFICATIONS.
- B. INSTALLATION: INSTALL THE EPOXY ANCHORS IN ACCORDANCE WITH THE REQUIREMENTS GIVEN IN MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIC ANCHOR.
- C. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1701 OF THE CBC. (1701A OF THE CBC FOR DSA PROJECTS)
- D. NOTIFY ARCHITECT IMMEDIATELY IF ELEMENTS WITH EXISTING STRUCTURE PREVENT DRILLING IN THE LOCATIONS SHOWN ON THE DRAWINGS.
- E. EPOXYED DOWELS DO NOT SUBSTITUTE FOR HOOKED BARS. CONTRACTOR TO NOTIFY ENGINEER OF EPOXYED DOWEL LOCATIONS.

REINFORCING ROD	MIN. EMBED.	MIN. EDGE DISTANCE	MIN. SPACING	TENSION TEST VALUE
#3	1 1/2"	3"	4 1/2"	1,800#
#4	1 1/2"	4"	6"	3,160#
#5	1 1/2"	5"	7 1/2"	4,440#
#6	1 1/2"	6"	9"	6,705#
#7	1 1/2"	7"	10 1/2"	8,400#
#8	1 1/2"	8"	12"	10,140#

* VALUES ARE FOR SINGLE ANCHORS WITH NO EDGE DISTANCE OR SPACING REDUCTION. FOR OTHER CASES, REDUCTION OF VALUES CALCULATED PER ACI 318-05 IS REQUIRED.

- EXPANSION ANCHORS (HILTI)**
- A. EXPANSION BOLTS SHALL BE HILTI KWIK-BOLT T2-CARBON STEEL ANCHOR (ESR-1917) OR EQUAL PRODUCT. ALTERNATE PRODUCTS MUST BE SUBMITTED TO A.O.R. FOR SUBSTITUTION PRIOR TO INSTALLATION PER SPECIFICATIONS.
- B. INSTALLATION: INSTALL THE EXPANSION ANCHORS IN ACCORDANCE WITH THE REQUIREMENTS GIVEN IN MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIC ANCHOR.
- C. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1701 OF THE CBC. (1701A OF THE CBC FOR DSA PROJECTS)
- D. WHEN EXPANSION ANCHORS ARE USED FOR SILL PLATE BOLTING AWAY FROM THE EDGE, 10% OF THE ANCHORS SHALL BE TENSION TESTED. FOR ALL OTHER STRUCTURAL APPLICATIONS, ALL SUCH EXPANSION ANCHOR SHALL BE TENSION TESTED. WHEN EXPANSION ANCHORS ARE USED FOR NON-STRUCTURAL APPLICATIONS, 50% OF ANCHORS SHALL BE TENSION TESTED. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME TYPE NOT PREVIOUSLY TESTED UNTIL 20 CONSECUTIVE ANCHORS PASS. (PER IR-19.1 FOR DSA PROJECTS ONLY)

DIA.	MIN. EMBED.	MIN. HOLE DEPTH	MIN. EDGE DISTANCE	MIN. SPACING	TENSION TEST VALUE
3/8"	2"	2 5/8"	4"	6"	1,509#
1/2"	3 1/4"	4"	6"	9 3/4"	3,287#
5/8"	4"	4 3/4"	6 3/4"	12"	4,656#
3/4"	4 3/4"	5 3/4"	9"	13 1/4"	5,850#

* FOR SINGLE ANCHORS WITH NO EDGE DISTANCE OR SPACING REDUCTION. FOR OTHER CASES, REDUCTION OF VALUES CALCULATED PER ACI 318-05 IS REQUIRED.
 ** TENSION TEST VALUES ONLY AND CORRESPOND WITH 1.5x CRACKED CONCRETE SEISMIC TENSION LOADS.

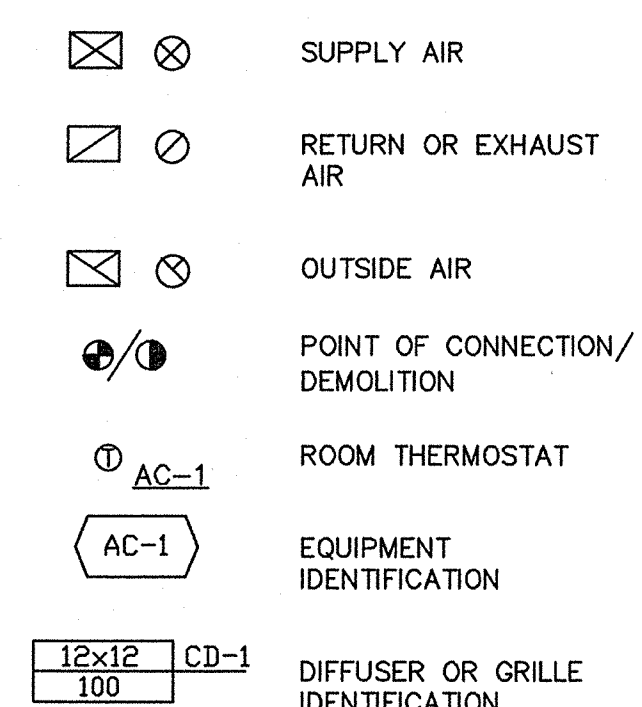
- LVF=(Low Velocity Fasteners). HILTI ICC ESR-2269 (11/1/2008)**
- A. IN NORMAL WEIGHT CONCRETE: 0.157" X-U FASTENER, 1" MIN. EMBEDMENT 3" EDGE DISTANCE, MIN. 4" O.C. SPACING.
- B. IN LIGHT WEIGHT CONCRETE: 0.157" X-U FASTENER, 1 1/2" MIN. EMBEDMENT 3" EDGE DISTANCE, MIN. 4" O.C. SPACING.
- C. IN STRUCTURAL STEEL: 0.157" X-U FASTENER, 1/2" MIN. EDGE DISTANCE, 1" MIN. SPACING. THE ENTIRE POINTED PORTION OF LVF, MUST COMPLETELY PENETRATE THE STEEL.
- D. IN CMU: 0.157" X-U FASTENER, 1" MIN. EMBEDMENT.

5 NOTES N.T.S.

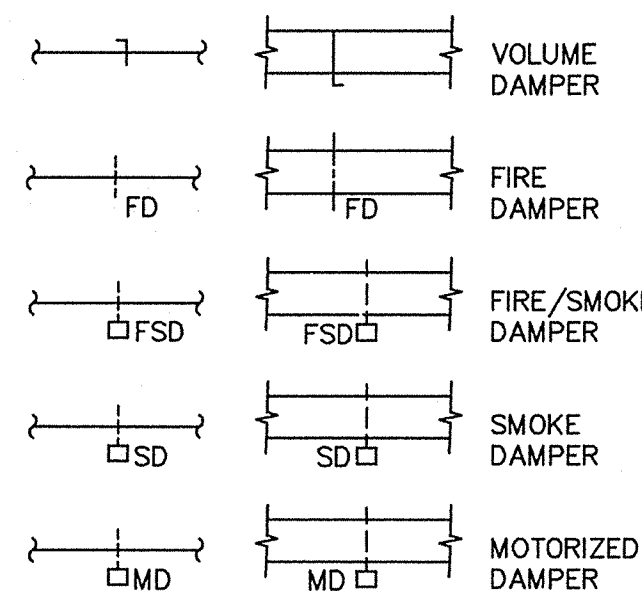
MECHANICAL SYMBOL LIST

* This is a standard list and not all symbols and abbreviations may be used.

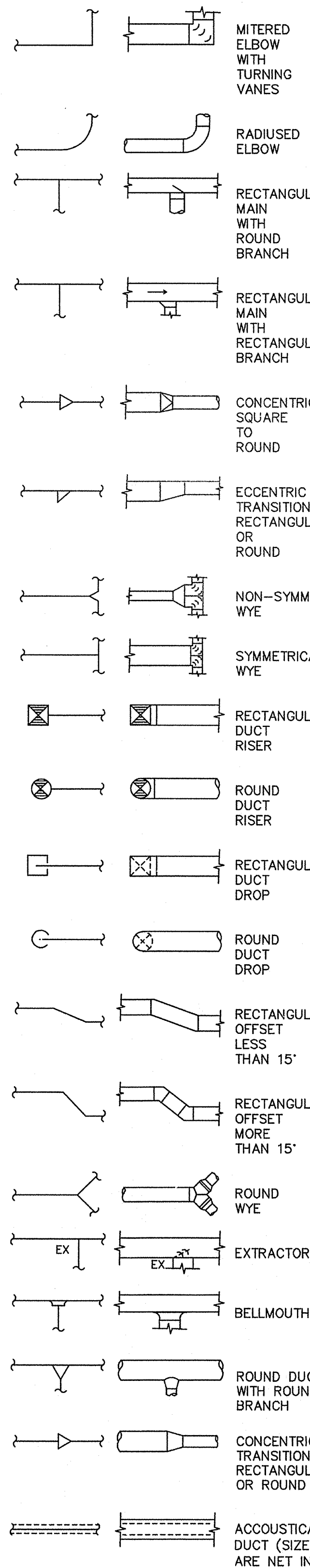
DUCTWORK



DAMPERS



DUCTWORK FITTINGS



ABBREVIATIONS

A/C	AIR CONDITION(ED)	MD	MOTORIZED DAMPER
AD	ACCESS DOOR	MH	MOUNTING HEIGHT
AF	ABOVE FINISHED FLOOR	MIN	MINIMUM
AHU	AIR HANDLING UNIT	MS	MOTOR STARTER
B	BOILER	MW	MAKE-UP WATER
BDD	BACKDRAFT DAMPER	(N)	NEW
BFP	BACKFLOW PREVENTER	N/A	NOT APPLICABLE
BFF	BELOW FINISHED FLOOR	NC	NOISE CRITERIA
BHP	BRAKE HORSEPOWER	NIC	NOT IN CONTRACT
CD	CEILING DIFFUSER	NO.	NUMBER
CD	CONDENSATE DRAIN	NOP	NORMALLY OPEN
CF	CUBIC FOOT	NTS	NOT TO SCALE
CFM	CUBIC FEET PER MINUTE	OA	OUTSIDE AIR
CL	CENTERLINE	OSD	OPPOSED BLADE DAMPER
CV	CHECK VALVE	OC	ON CENTER
CH	CHILLER	OD	OUTSIDE DIAMETER
COP	COEFFICIENT OF PERFORMANCE	P	PUMP
CONT.	CONTINUATION	PD	PRESSURE DROP
CT	COOLING TOWER	PH	PHASE
CU	CONDENSING UNIT	PRV	PRESSURE REDUCING VALVE
CV	VALVE FLOW COEFFICIENT	PSI	POUNDS PER SQUARE INCH
C/W	COLD WATER	QTY	QUANTITY
D	DROP	(R)	REMOVE
DB	DECIBEL	(RL)	RELOCATE
DB	DRY BULB	R	RISE
DG	DOOR GRILLE	RA	RETURN AIR
DIA	DIAMETER	REF	REFRIGERANT
DP	DEW POINT	RET	RETURN
DX	DIRECT EXPANSION	RH	RELATIVE HUMIDITY
(E)	EXISTING	RL	REFRIGERANT LIQUID
EAT	ENTERING AIR TEMPERATURE	RLD	RELIEF DAMPER
EDH	ELECTRIC DUCT HEATER	RPM	REVOLUTIONS PER MINUTE
EER	ENERGY EFFICIENCY RATING	RS	REFRIGERANT SUCTION
EF	EXHAUST FAN	SA	SUPPLY AIR
EEF	EFFICIENT	SEER	SEASONAL ENERGY EFFICIENCY RATING
EL	ELEVATION	SF	SQUARE FEET
ELECT	ELECTRICAL	SH	SENSIBLE HEAT
EWT	ENTERING WATER TEMPERATURE	SOV	SHUT OFF VALVE
EXH	EXHAUST	SP	STATIC PRESSURE
F	FAHRENHEIT	SST	SATURATED SUCTION TEMPERATURE
FA	FACE AREA	TD	TEMPERATURE DIFFERENCE
FC	FAN COIL	TEMP	TEMPERATURE
FC	FLEXIBLE CONNECTOR	TH	TOTAL HEAT
FD	FIRE DAMPER	TP	TOTAL PRESSURE
FF	FOULING FACTOR	TVE	TURNING VANE ELBOW
FLA	FULL LOAD AMPS	UD	UNDERCUT DOOR
FM	FLOW METER	UH	UNIT HEATER
FPI	FINS PER INCH	V	VOLT
FPM	FEET PER MINUTE	VAV	VARIABLE AIR VOLUME
FPS	FEET PER SECOND	VD	VOLUME DAMPER (HAND OPERATOR)
FS	FLOW SWITCH	VEL	VELOCITY
FT	FEET	W	WATT
FVEL	FACE VELOCITY	W/	WITH
GAL	GALLONS	WB	WET BULB
GPH	GALLONS PER HOUR	WC	WATER COLUMN
GPM	GALLONS PER MINUTE	W/O	WITHOUT
HD	HEAD		
HP	HEAT PUMP		
HP	HORSEPOWER		
HTG	HEATING		
HTR	HEATER		
HWC	HOT WATER COIL		
ID	INSIDE DIAMETER		
IE	INVERT ELEVATION		
IN	INCHES		
KW	KILOWATT		
LAT	LEAVING AIR TEMPERATURE		
LBS.	POUNDS		
LH	LATENT HEAT		
LWT	LEAVING WATER TEMPERATURE		
MA	MIXED AIR		
MAX	MAXIMUM		
MBH	THOUSAND BTU'S PER HOUR		

GENERAL SEISMIC NOTES

- A. CONTRACTOR TO PROVIDE COMPLETE SEISMIC ANCHORAGE AND BRACING FOR ALL MECHANICAL EQUIPMENT WEIGHING OVER 400 POUNDS THAT IS DIRECTLY MOUNTED ON THE FLOOR OR ROOF AND ALL MECHANICAL EQUIPMENT WEIGHING OVER 20 POUNDS THAT IS SUSPENDED FROM THE FLOOR, WALL OR SUPPORTED BY VIBRATION ISOLATORS TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE CRITERIA OUTLINED IN THE 2007 CALIFORNIA BUILDING CODE, ASCE 7-05 SECTION 13.3. CONSIDER THE AFFECT OF TEMPERATURE CHANGE IN PREPARATION OF ANCHORAGE AND BRACING DETAILS. PROVIDE ANCHORAGE CALCULATIONS AND DETAILS CERTIFIED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA.
- B. REFER TO STRUCTURAL DRAWINGS FOR CONCRETE ANCHOR TYPE AND INSTALLATION REQUIREMENTS.
- C. ALL PIPING AND CONDUIT CROSSING BUILDING SEISMIC SEPARATIONS SHALL BE PROVIDED WITH APPROVED FLEXIBLE CONNECTORS.
- D. SHOP DRAWINGS SHOWING ALL BRACING LOCATIONS AND DETAILS OF CONNECTIONS ARE REQUIRED FOR ALL SYSTEMS INCLUDING PRE-APPROVED SYSTEM.
- E. A COPY OF THE BRACING SYSTEMS INSTALLATION MANUAL SHALL BE ON THE JOB SITE PRIOR TO STARTING THE INSTALLATION OF THE HANGERS AND/OR BRACES. SUBMIT APPLICABLE DETAILS FOR REVIEW AND APPROVAL.
- F. LATERAL SUPPORT FOR PIPES AND DUCTS SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST ADDITION OF THE "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING SYSTEMS" BY SMACNA.

GENERAL MECHANICAL NOTES

- A. COORDINATE EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES WITH LIGHTING LAYOUT, CEILING TILE PATTERN AND WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- B. PROVIDE MANUAL VOLUME DAMPERS TO FACILITATE PROPER BALANCE OF THE AIR DISTRIBUTION SYSTEM. VOLUME DAMPER AT DIFFUSERS AND REGISTERS SHALL NOT BE USED FOR AIR BALANCING.
- C. SEAL ALL OPENINGS AROUND PIPING AND DUCTWORK PENETRATING FIRE RESISTIVE RATED WALLS AND FLOORS TO MAINTAIN RATING INTEGRITY.
- D. COORDINATE EXACT LOCATION OF CEILING, WALL OR FLOOR ACCESS PANELS FOR FIRE, SMOKE OR COMBINATION FIRE SMOKE DAMPERS AND VOLUME DAMPERS WITH ARCHITECT.
- E. COORDINATE LOCATION OF CEILING ACCESS PANEL FOR EACH FURNACE LOCATED IN THE NON-DEMOUNTABLE CEILING AREA.
- F. FLEXIBLE SUPPLY DUCT LENGTH SHALL BE MAXIMUM 5'-0". MINIMUM RADIUS SHALL BE 1.5 TIMES DIAMETER OF DUCT.
- G. PROVIDE MANUAL VOLUME DAMPER REMOTE REGULATOR AT INACCESSIBLE CEILING. SIMILAR TO YOUNG REGULATOR.
- H. COORDINATE EXACT LOCATION OF CORE DRILLING, CUTTING OF FLOOR SLAB, OR WALLS OF THE BUILDING WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- I. PROVIDE ACCESS DOOR FOR ALL EQUIPMENT, VALVES AND CLEANOUTS WHICH REQUIRE ACCESS FOR ADJUSTMENT OR SERVICING, AND WHICH ARE LOCATED IN OTHERWISE INACCESSIBLE LOCATIONS. OPENINGS SHALL BE LARGE ENOUGH TO PERMIT MAINTENANCE AND ADJUSTMENT OF THE DEVICE.
- J. DUCTS STORED ON THE CONSTRUCTION SITE SHALL BE PROTECTED AND ISOLATED FROM DUST CONTAMINATION.
- K. PITCH PIPELINES AS REQUIRED FOR PROPER DRAINAGE AND ELIMINATION OF AIR.
- L. MANUFACTURERS NAMES FOR PRODUCTS LISTED ON DRAWINGS ARE BASIS OF DESIGN. SEE SPECIFICATIONS FOR EQUIVALENT MANUFACTURERS.
- M. THE PROJECT DESIGN SHOWN ON THE DRAWINGS AND SPECIFIC ITEMS REFERENCED IN THE SPECIFICATIONS IS IN COMPLIANCE WITH THE CODES AND ORDINANCES LISTED IN DIVISION 23 SPECIFICATIONS.
- N. PROVIDE SEISMIC ANCHORAGE AND BRACING FOR MECHANICAL EQUIPMENT, PIPING AND DUCTWORK. SEE "GENERAL SEISMIC NOTES" FOR DETAIL REQUIREMENTS.
- O. COORDINATE WITH DIVISION 16 CONTRACTOR FOR LOCATION OF POWER AND LOCAL DISCONNECTS FOR COMBINATION FIRE/SMOKE DAMPERS.
- P. INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE OR WHERE THE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- Q. PREPARE SHOP DRAWINGS FOR INSTALLATION OF ALL NEW WORK BEFORE INSTALLATION TO VERIFY COORDINATION BETWEEN TRADES.
- R. KEEP CUTTING TO THE MINIMUM REQUIRED FOR PROPER EXECUTION OF WORK. BE RESPONSIBLE FOR ALL CUTTING AND PATCHING NECESSARY FOR THE COMPLETION OF WORK. NO CUTTING SHALL BE PERFORMED WITHOUT THE APPROVAL OF THE ARCHITECT.
- S. PROVIDE OFFSETS, ELBOWS AND TRANSITIONS IN DUCTWORK AND PIPING AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
- T. VERIFY ALL CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. PROVIDE TRANSITIONS FOR FINAL CONNECTION TO EQUIPMENT. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF WORK.
- U. VERIFY DIFFUSERS, GRILLES, AND REGISTER MOUNTING FRAME TYPES WITH CEILING TYPE AND CONFIGURATION.
- V. PROVIDE DUCT ACCESS DOORS FOR FIRE/SMOKE DAMPERS AND SMOKE DETECTORS.
- W. PAINT FLAT BLACK THE INSIDE OF ALL DUCT WORK VISIBLE THROUGH DIFFUSERS, GRILLES, AND REGISTERS.
- X. FIRE-SAFE PIPE AND DUCTWORK PENETRATIONS OF ALL FIRE RATED AND SMOKE RESISTIVE CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND DETAILS OF ALL PENETRATION AND FIRE-SAFING REQUIREMENTS.
- Y. INSTALL ALL EQUIPMENT LEVEL AND PLUMB. PROVIDE BLOCKING AND HARDWARE AS REQUIRED.
- Z. PROVIDE HANGER, SUPPORT AND SWAY BRACES FOR ALL DUCTWORK, PIPING AND EQUIPMENT AS REQUIRED BY THE LATEST EDITION OF THE SMACNA GUIDELINES.
- AA. DUCT SYSTEMS SHALL BE BALANCED TO CFM ON DRAWINGS. FANS SHALL BE FIELD TESTED TO PROVED COMPLIANCE WITH SCHEDULED FAN PERFORMANCE, AIR FLOW AT DESIGN STATIC PRESSURE.
- AB. ALL WORK AND MATERIALS SHALL BE IN COMPLIANCE WITH THE SPECIFICATIONS IN THE EVENT OF A CONFLICT BETWEEN THE CONTRACT DRAWINGS AND THE SPECIFICATIONS, THE MOST STRINGENT SHALL GOVERN.
- AC. INSTALL ALL PIPING AND DUCTWORK TO BEST SUIT FIELD CONDITIONS AND COORDINATE WITH OTHER TRADES. THE DRAWINGS ARE DIAGRAMMATIC, AND SHALL NOT BE SCALED TO DETERMINE THE EXACT LOCATIONS OF THE PIPING OR DUCTWORK.
- AD. PROVIDE UNIONS OR FLANGES AT EACH SIDE OF CONTROL VALVES. EVERY PIPING ASSEMBLY SHALL BE MADE SUCH THAT EVERY VALVE AND EVERY PIECE OF EQUIPMENT IS EASILY REMOVABLE. WELDED OR SOLDERED-JOINT VALVES ARE EXEMPT FROM THIS REQUIREMENT.
- AE. PROVIDE 1-IN AIR GAP AT ALL DRAIN CONNECTIONS.

SHEET INDEX

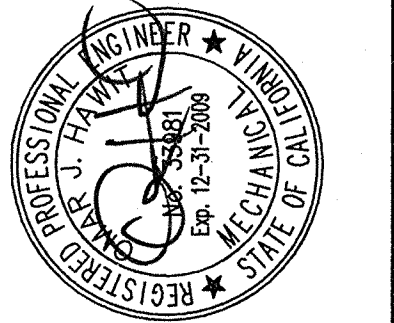
- M0.1 MECHANICAL SYMBOL LIST, GENERAL NOTES & SHEET INDEX
- M2.1 PARTIAL GROUND LEVEL FLOOR PLANS - MECHANICAL
- M3.1 MECHANICAL SCHEDULES AND DETAILS

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MECHANICAL SYMBOL LIST, GENERAL NOTES & SHEET INDEX

COLLEGE OF SAN MATEO BUILDING 9 RESTROOM REMODEL
SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT
1700 WEST HILLSDALE BLVD.
SAN MATEO, CALIFORNIA

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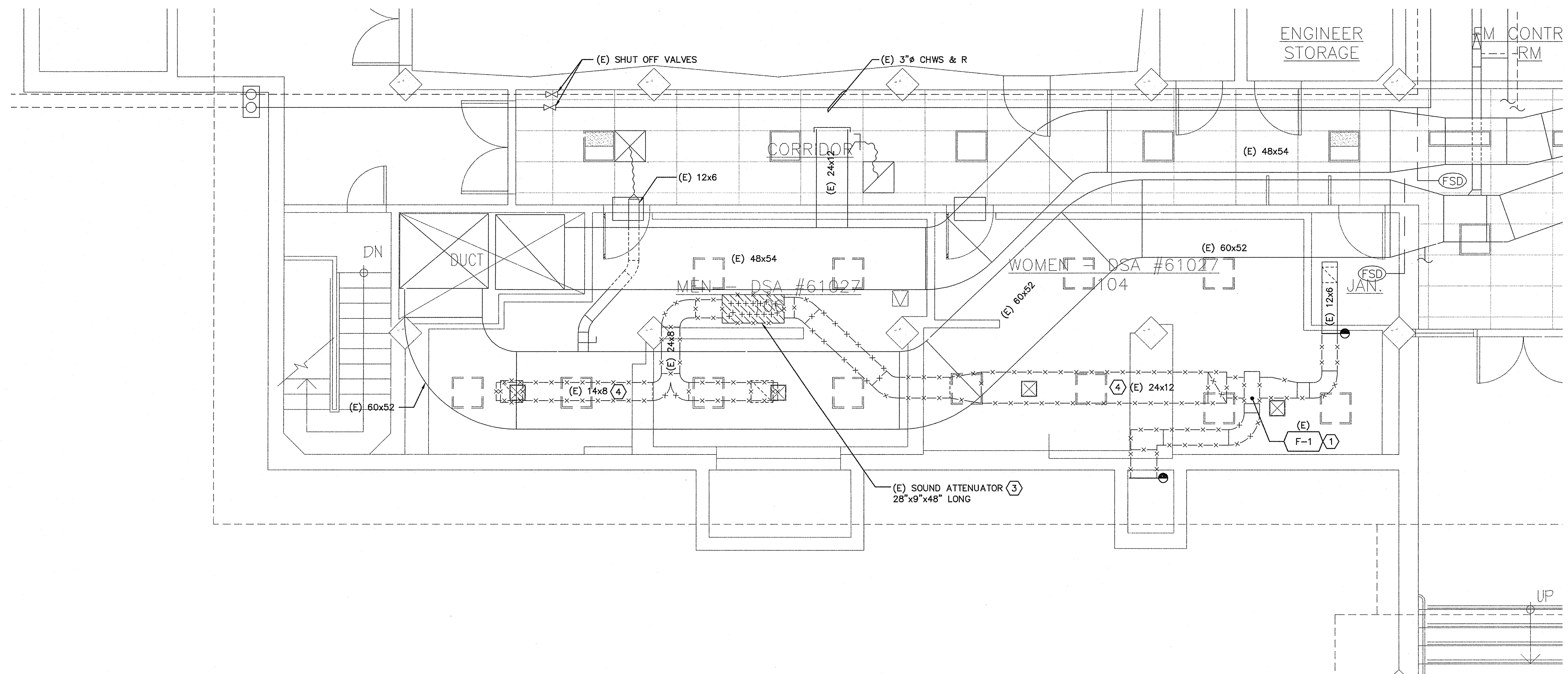
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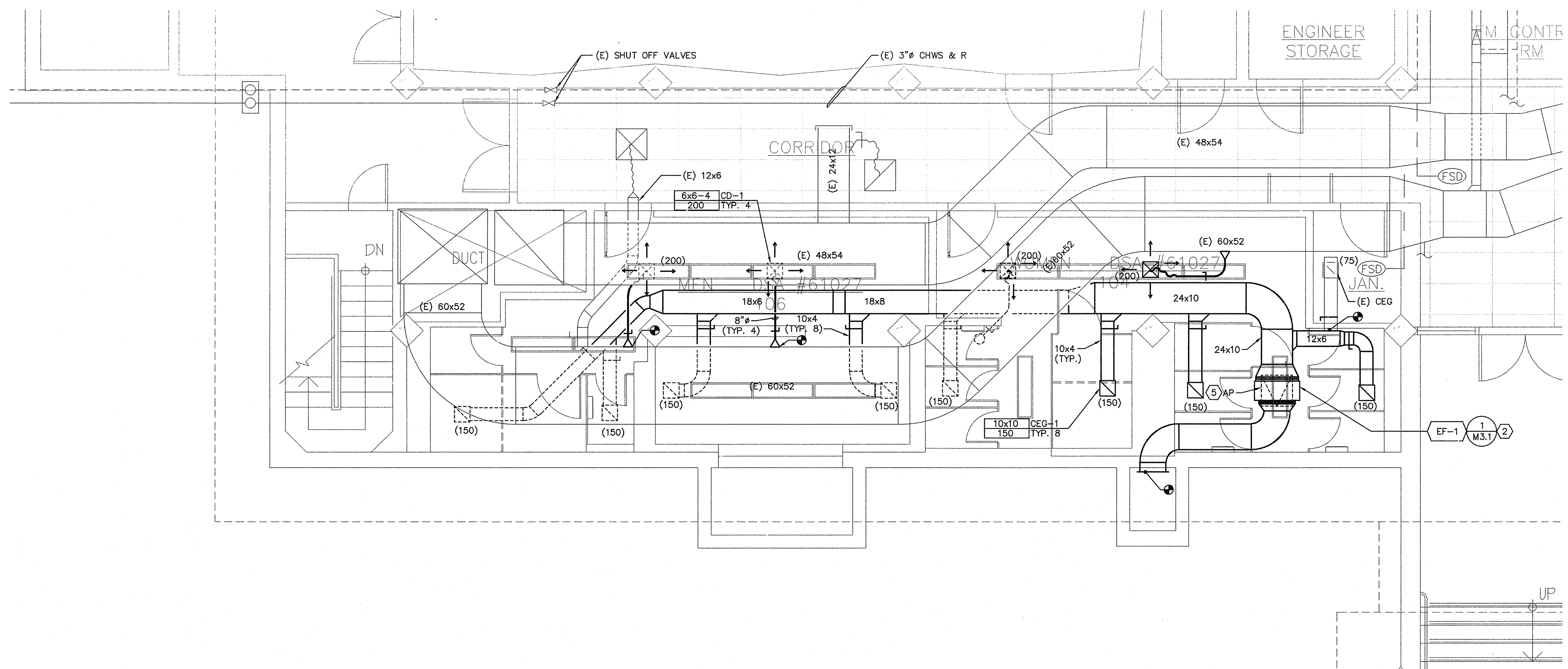
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1 PARTIAL GROUND LEVEL DEMOLITION FLOOR PLAN - MECHANICAL
 SCALE: 1/4"=1'-0"



2 PARTIAL GROUND LEVEL NEW FLOOR PLAN - MECHANICAL
 SCALE: 1/4"=1'-0"

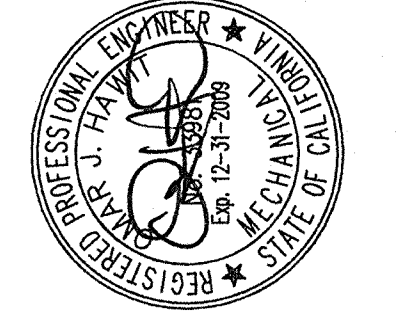
SHEET KEYNOTES

- ① REMOVE EXISTING EXHAUST FAN.
- ② PROVIDE NEW EXHAUST FAN TO REPLACE EXISTING UNIT.
- ③ REMOVE EXISTING SOUND ATTENUATOR.
- ④ DEMOLISH DUCTWORK, HANGERS, SUPPORTS AND APPURTENANCES TO POINT OF DEMOLITION AS SHOWN (TYPICAL).
- ⑤ PROVIDE ACCESS PANEL ADEQUATE FOR SERVICE AND MAINTENANCE OF NEW EXHAUST FAN. COORDINATE EXACT LOCATION WITH OTHER TRADES.

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PARTIAL GROUND LEVEL FLOOR PLANS -
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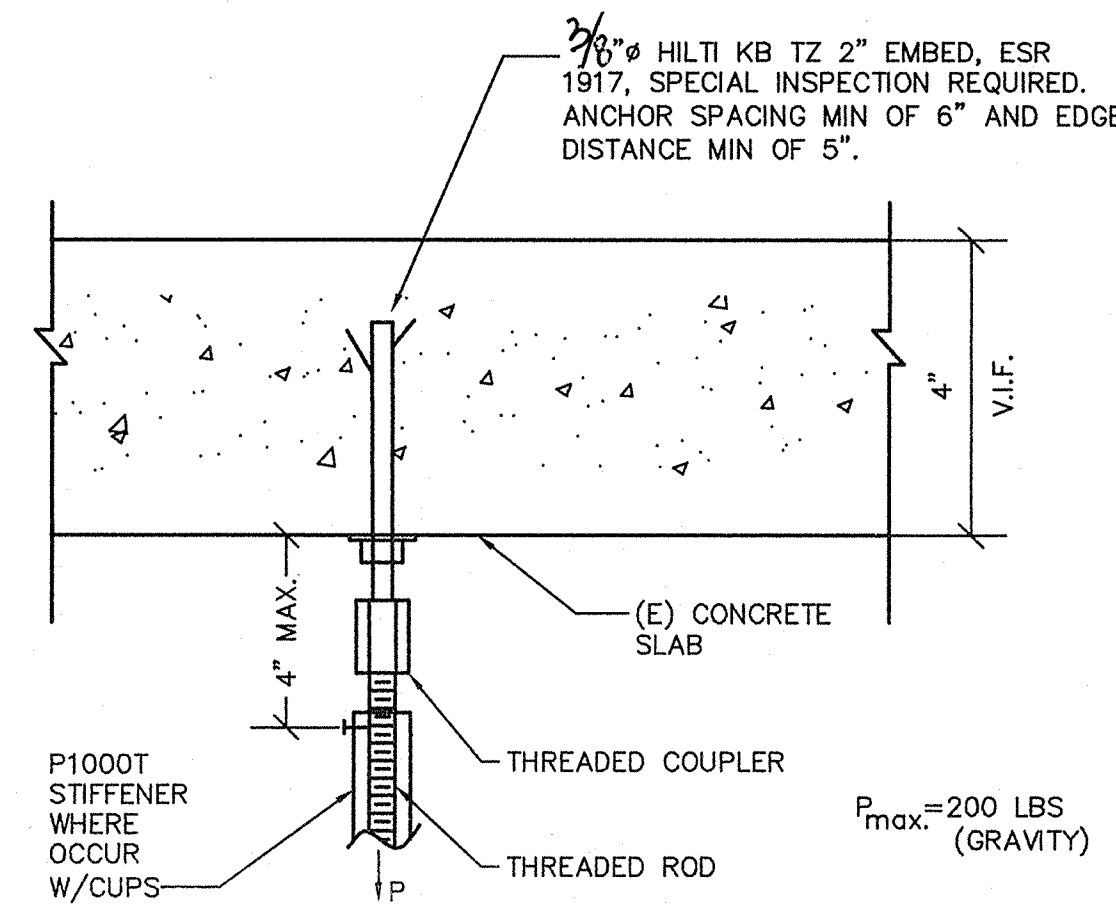
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FAN SCHEDULE													
SYMBOL	AREA SERVED	TYPE	DRIVE	AIR FLOW (CFM)	T.S.P. (IN-H2O)	MAX RPM	SOUND (SONES)	BASIS OF DESIGN	MAX. WT. (LBS)	ELECTRICAL		CONTROL	REMARKS
										VOLT/PH	WATTS		
EF-1	TOILETS	IN-LINE CABINET	DIRECT	1,275	0.60	1,100	4	GREENHECK CSP-A2150	80	115/1	735	BMS SCHEDULE	SEE NOTES

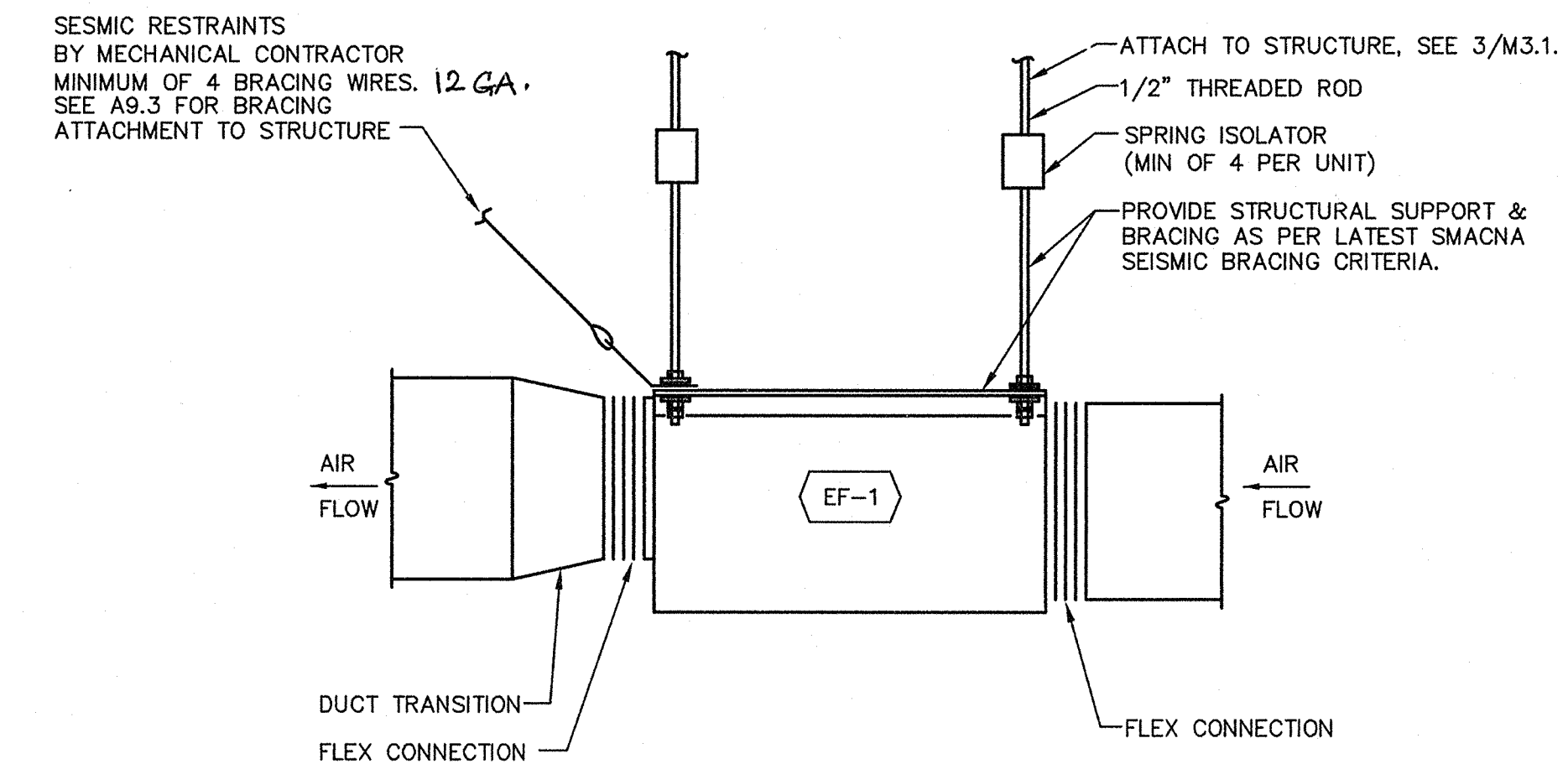
NOTES: 1. PROVIDE STARTER AND DISCONNECT.
2. TIE TO DDC SYSTEM.

DIFFUSER, REGISTER AND GRILLE SCHEDULE							
SYMBOL	TYPE	FACE	FRAME	DAMPER	FINISH	BASIS OF DESIGN	REMARKS
CEG-1	CEILING EXHAUST GRILLE	PERFORATED	SEE PLANS	NONE	WHITE	TITUS PAR 12x12	SEE NOTES
CD-1	CEILING SUPPLY DIFFUSER	PERFORATED	SEE PLANS	NONE	WHITE	TITUS PSS 12x12	SEE NOTES

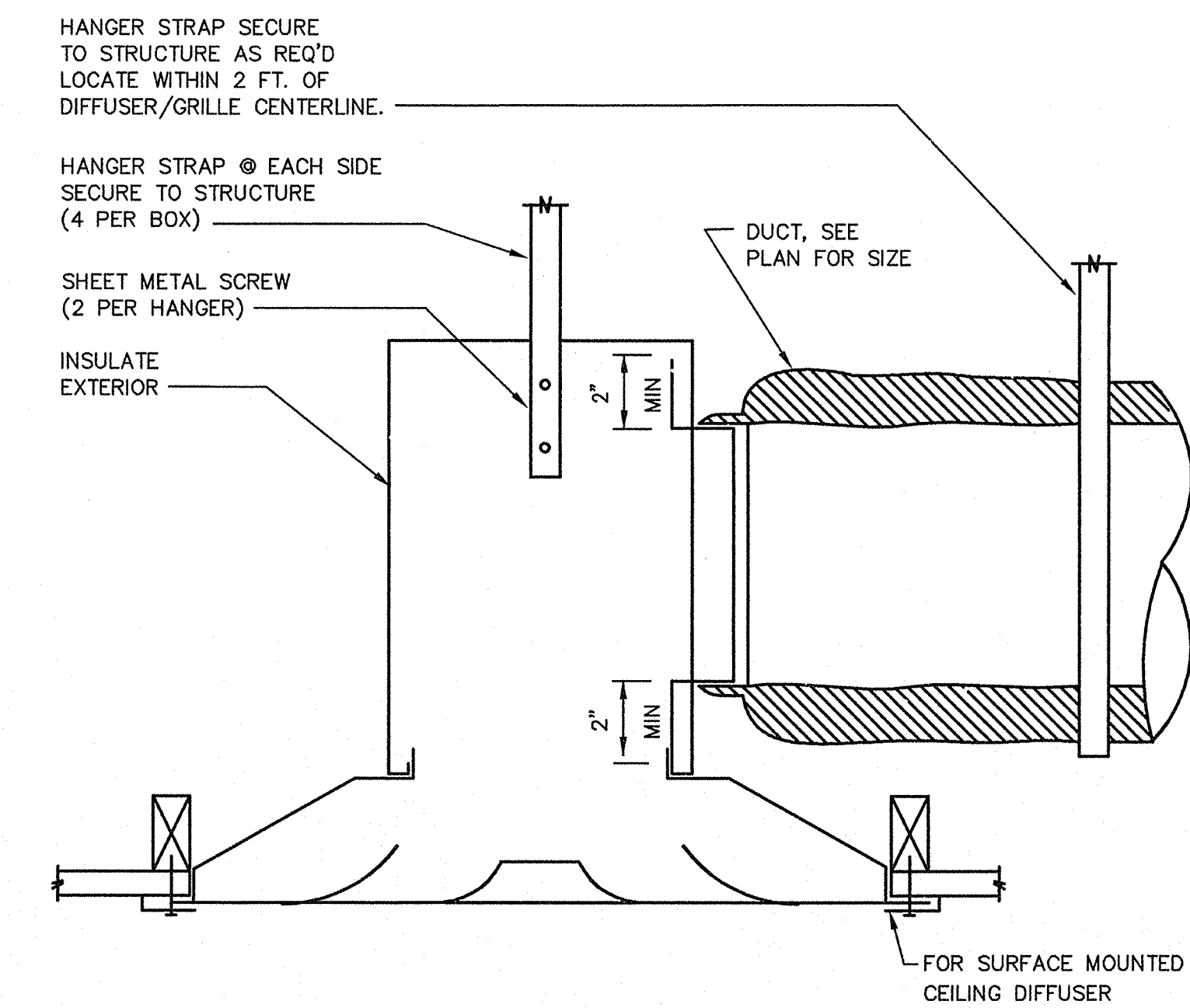
NOTES: 1. COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS, LIGHTING AND OTHER TRADES.
2. USE BORDER TYPE 2 IN HARD CEILING AREAS.



3 ATTACHMENT TO STRUCTURE
NTS



1 EXHAUST FAN SUPPORT DETAIL
NTS



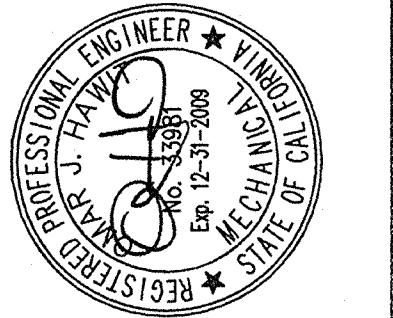
2 CEILING SUPPLY AND EXHAUST CONNECTION DETAIL
NTS

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MECHANICAL SCHEDULES AND DETAILS
COLLEGE OF SAN MATEO BUILDING 9 RESTROOM REMODEL
SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT
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PLUMBING SYMBOL LIST

* This is a standard list and not all symbols and abbreviations may be used.

VALVES		PIPING SYSTEMS	
	VALVE, GENERAL		COLD WATER PIPING
	VALVE		HOT WATER PIPING
	GATE VALVE		HOT WATER RETURN PIPING
	PRESSURE REDUCING VALVE		WASTE PIPING BELOW GRADE OR FINISHED FLOOR
	MOTORIZED, 2-WAY VALVE		WASTE PIPING ABOVE GRADE OR FINISHED FLOOR
	CHECK VALVE		STORM DRAIN PIPING ABOVE GRADE OR FINISHED FLOOR
	QUARTER TURN VALVE		STORM DRAIN PIPING BELOW GRADE OR FINISHED FLOOR
	GLOBE VALVE		WASTE VENT PIPING
	BALANCING VALVE		
	MOTORIZED, 3-WAY VALVE		
FITTINGS		ABBREVIATIONS	
	PIPE RISE	AD	AREA DRAIN
	PIPE DROP	AFG	ABOVE FINISHED GRADE
	TEE UP ON PIPE	AFF	ABOVE FINISHED FLOOR
	TEE DOWN ON PIPE	BFP	BACKFLOW PREVENTER
	CONTINUATION	BFF	BELOW FINISHED FLOOR
	CAP	CD	CONDENSATE DRAIN
	UNION	CF	CUBIC FOOT
	PIPE BELOW GRADE	CFH	CUBIC FEET PER HOUR
	PIPE REMOVED IN DEMOLITION	CL	CENTERLINE
	CONCENTRIC REDUCER	CLG	CEILING
	ECCENTRIC REDUCER	CONT.	CONTINUATION
	FLOW DIRECTION	CV	CHECK VALVE
	HOSE BIBB	CW	COLD WATER
	PUMP	DIA	DIAMETER
	WALL CLEANOUT	DN	DOWN
	FLOOR CLEANOUT	(E)	EXISTING
	CATCH BASIN	EL	ELEVATION
	FLOOR DRAIN	ELECT	ELECTRICAL
	FLOOR SINK	FC	FLEXIBLE CONNECTOR
	POINT OF CONNECTION/DEMOLITION	FPS	FEET PER SECOND
		FS	FLOW SWITCH
		FT	FEET
		GAL	GALLONS
		GPH	GALLONS PER HOUR
		GPM	GALLONS PER MINUTE
		HB	HOSE BIBB
		HD	HEAD
		HUD	HUB DRAIN
		HP	HORSE POWER
		HTR	HEATER
		HW	HOT WATER
		HWR	HOT WATER RETURN
		ID	INSIDE DIAMETER
		IE	INVERT ELEVATION
		IN	INCHES
		L	LAVATORY
		LBS.	POUNDS
		MBH	THOUSAND BTU'S PER HOUR
		MIN	MINIMUM
		(N)	NEW
		N/A	NOT APPLICABLE
		NIC	NOT IN CONTRACT
		NO.	NUMBER
		NOP	NORMALLY OPEN
		NTS	NOT TO SCALE
		OD	OUTSIDE DIAMETER
		P	PUMP
		PDI	PLUMBING & DRAINAGE INSTITUTE
		PRV	PRESSURE REDUCING VALVE
		PSI	POUNDS PER SQUARE INCH
		RD	ROOF DRAIN
		REC	ROOF CEPTOR
		RET	RETURN
		RL	RAIN WATER LEADER
		SF	SQUARE FEET
		SOV	SHUT OFF VALVE
		TEMP	TEMPERATURE
		TP	TRAP PRIMER PIPING
		TPV	TRAP PRIMER VALVE
		U	URINAL
		UH	UNIT HEATER
		V	VENT
		VAC	VACUUM
		VTR	VENT THRU ROOF
		W	WASTE
		W/	WITH
		WC	WATER CLOSET
		WHA	WATER HAMMER ARRESTOR

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	CONNECTION			
		W	V	CW	HW
FD-1	FLOOR DRAIN: CAST IRON BODY WITH ADJUSTABLE ROUND POLISHED NICKEL BRONZE STRAINER. STANDARD SCREWS. TRAP PRIMER CONNECTION. J.R. SMITH 2005-A	2"	1-1/2"	---	---
HB-1	HOSE BIBB: WALL FAUCET, INSIDE USE, WITH E27JKCP INTEGRAL VACUUM BREAKER, POLISHED CHROME, LOOSE KEY HANDLE 293-6, CHICAGO-293-CP	---	---	3/4"	---
L-1	LAVATORY: WALL HUNG, VITREOUS CHINA, 20-3/4 IN. BY 18-3/4 IN. FRONT OVERFLOW, ANTI-BACKSPASH. KOHLER K-2032 "GREENWICH" WITH 4 IN. CENTER FAUCET HOLES. FITTINGS: K899B 1-1/4 IN. BY 1-1/2 IN. P-TRAP. SUPPLIES AND STOPS. FAUCET: SYMMONS S-60-G-H METERING/SELF-CLOSING TYPE, 4 IN. CENTERS, ADJUSTABLE SLOW CLOSING, TEMPERATURE LIMIT STOP. IN-LINE CHECK/SCREEN ASSEMBLIES, 0.5 GPM AERATOR, GRID STRAINER, CHROME.	1-1/2"	1-1/2"	1/2"	1/2"
L-2 ADA	SAME AS L-1 EXCEPT FOR ADA COMPLIANT & PROVIDE INSULATION KIT TO P-TRAP AND SUPPLIES. SEE SPECIFICATIONS.	1-1/2"	1-1/2"	1/2"	1/2"
TPV-1	TRAP PRIMER MIFAB TRAP SEAL PRIMER MODEL MR-500 SERIES	---	---	---	---
U-1	URINAL: SIPHON JET, VITREOUS CHINA, WALL MOUNTED, HIGH EFF. URINAL SYSTEM 3/4 IN. TOP SPUD. ZURN Z5798 FLUSH VALVE: 0.125 GAL. PER FLUSH, TOP SPUD. (INFRARED SENSOR/BATTERY) CARRIER: FLOOR MOUNTED. J.R. SMITH 0600 SERIES URINAL SUPPORT WITH SUPPORTING STUDS AND BOTTOM BEARING PLATE.	2"	1-1/2"	3/4"	---
U-2	SAME AS U-1 EXCEPT ADA COMPLIANT	2"	1-1/2"	3/4"	---
WC-1	WATER CLOSET: WALL HUNG, SIPHON JET ACTION, VITREOUS CHINA, ELONGATED BOWL, 1-1/2 IN. TOP SPUD FOR EXPOSED FLUSH VALVE, BOLT CAPS. MOUNTING HEIGHT STANDARD. KOHLER K-4330 "KINGSTON" SEAT: OPEN FRONT, COMMERCIAL WEIGHT HEAVY-DUTY PLASTIC, STAINLESS STEEL CHECK HINGE, WHITE, WITHOUT COVER. CHURCH 9500C. FLUSH VALVE: 1.6 GAL. PER FLUSH DOWN/1.1 GAL. PER FLUSH UP, TOP SPUD. SLOAN WES-111 (MANUAL OPERATION) CARRIER: J.R. SMITH 0200 SERIES OR EQUAL.	4"	2"	1-1/2"	---
WC-2 ADA	WATER CLOSET: WALL HUNG, SIPHON JET ACTION, VITREOUS CHINA, ELONGATED BOWL, 1-1/2 IN. TOP SPUD FOR EXPOSED FLUSH VALVE, BOLT CAPS. MOUNTING HEIGHT ADA COMPLIANT. KOHLER K-4330 "KINGSTON" SEAT: OPEN FRONT, COMMERCIAL WEIGHT HEAVY-DUTY PLASTIC, STAINLESS STEEL CHECK HINGE, WHITE, WITHOUT COVER. CHURCH 9500C. FLUSH VALVE: 1.6 GAL. PER FLUSH DOWN/1.1 GAL. PER FLUSH UP, TOP SPUD. SLOAN WES-111 (MANUAL OPERATION) CARRIER: J.R. SMITH 0200 SERIES OR EQUAL.	4"	2"	1-1/2"	---

GENERAL PLUMBING NOTES

- REPORT TO ARCHITECT, IN WRITING, CONDITIONS WHICH WILL PREVENT PROPER PROVISION OF THIS WORK.
- THE SUBMISSION OF BID PROPOSAL SHALL BE CONSIDERED AS CONCLUSIVE EVIDENCE THAT THE CONTRACTOR IS THOROUGHLY FAMILIAR WITH THE INTENT OF THE CONTRACT DOCUMENTS AND SCOPE OF WORK. THE CONTRACTOR, PRIOR TO BIDDING, SHALL VISIT THE JOB SITE, CHECK EXISTING INSTALLATIONS AND SYSTEMS RELATED TO HIS WORK AND SHALL IN THE BID PROPOSAL INCLUDE ALL LABOR AND MATERIAL REQUIRED TO COMPLETE THE SYSTEM.
- CONTRACTOR SHALL COMPLETE THE WORK WITH MINIMUM INTERFERENCE WITH EXISTING SYSTEMS. ANY SHUTDOWN OF THE EXISTING SYSTEM SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND THE OWNER'S REPRESENTATIVE TWO WEEKS IN ADVANCE.
- ALL WORK UNDER THIS DIVISION SHALL BE COORDINATED WITH OTHER TRADES.
- PROTECT EXISTING BUILDING STRUCTURES, AND ADJACENT FINISHED SURFACES DURING CONSTRUCTION. PATCH, REPAIR AND REFINISH EXISTING WORK DAMAGED BY WORK UNDER THIS DIVISION TO MATCH ADJACENT UNDISTURBED AREAS. PATCHING AND REFINISHING IS TO BE PERFORMED BY WORKMEN SKILLED IN THE TRADES INVOLVED. DO NOT CUT ANY STRUCTURAL MEMBERS WITHOUT THE REVIEW AND APPROVAL OF THE STRUCTURAL ENGINEER.
- ALL MATERIALS AND WORKMANSHIP ARE SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT. ANY PORTION OF THE WORK FOUND TO BE DEFECTIVE SHALL BE REPLACED BY THE CONTRACTOR AS PART OF THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER.
- ANY PIPING OFFSETS REQUIRED AS RESULT OF EXISTING JOB CONDITIONS, OR LACK OF COORDINATION WITH OTHER TRADES SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER AND IS SUBJECT TO REVIEW BY THE ARCHITECT.
- ALL FLOOR DRAIN TRAPS WILL BE PRIMED TO PROVIDE WATER SEAL FOR PREVENTION OF DRYING AND PREVENTION OF FUMES EXITING UP THROUGH DRAINS.
- INSULATE HOT WATER PIPING SUPPLY AND RETURN. INSULATE COLD WATER PIPING LOCATED EXPOSED IN TEMPERED ROOMS, IN CRAWL SPACE OR ATTIC AREA, AND EXPOSED UNDER OVERHANGS. PIPING EXPOSED TO RAIN SHALL BE INSULATED WITH CLOSED CELL INSULATION, ALUMINUM JACKET INSULATION SHALL BE PAINTED TO MATCH THE SURROUNDING, AS APPROVED PER ARCHITECT IN SUBMITTAL.
- FOR PIPES PENETRATING WALL, PROVIDE ESCUTCHEON ALL EXPOSED LOCATIONS.
- COORDINATE WITH FLOOR, CEILING AND WALL CONSTRUCTION TRADE TO PROVIDE ACCESS PANEL FOR ALL VALVES AND OTHER EQUIPMENT REQUIRING ACCESS.

GENERAL DEMOLITION NOTES

- COORDINATE DEMOLITION, CUTTING PATCHING, ETC. WITH GENERAL CONTRACTOR AND EXISTING FIELD CONDITIONS PRIOR TO SUBMITTING CONSTRUCTION CONTRACT BIDS. SEE SPECIFICATIONS GENERAL PROVISIONS, NOT ALL PIPING IS ILLUSTRATED.
- REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR SPACE ALLOTMENT, BEAM LOCATION AND COORDINATION PURPOSES. CONFLICTS REGARDING SPACE REQUIREMENTS, CLEARANCES, INTERFERENCE WITH STRUCTURE OR OTHER WORK, ETC., SHALL BE DIRECTED TO THE ARCHITECT FOR RESOLUTION PRIOR TO INSTALLATION OF WORK.
- CUTTING, PATCHING AND PAINTING OF EXISTING WALLS, CEILINGS AND FLOOR TO ACCOMMODATE WORK AS SHOWN OR SPECIFIED HEREIN, SHALL BE INCLUDED IN THE WORK FOR EACH TRADE.
- VERIFY AND COORDINATE EXISTING WASTE, VENT AND WATER PIPING TO REMAIN IN SERVICE. EXISTING WASTE, VENT AND WATER PIPING SERVING EXISTING PLUMBING FIXTURES, FLOOR SINKS AND FLOOR DRAINS TO BE REMOVED ARE TO BE CAPPED BELOW FLOOR OR REMOVED BACK TO PLUMBING PIPING REMAINING IN SERVICE THEN CAPPED, EXCEPT AS NOTED. CONTRACTOR SHALL REROUTE/REPIPE EXISTING PIPING TO REMAIN AS REQUIRED TO MAINTAIN SERVICE. EXISTING PIPING SERVING OTHER TENANTS/BUILDING SPACES IS TO REMAIN.
- REMOVE EXISTING FIXTURES, CLEAN AND RE-CONNECT TO EXISTING SERVICES AFTER NEW WALL AND/OR COUNTER FINISHES HAVE BEEN INSTALLED. COORDINATE LOCATION OF EACH FIXTURE WITH ARCHITECT.

GENERAL SEISMIC NOTES

- CONTRACTOR TO PROVIDE COMPLETE SEISMIC ANCHORAGE AND BRACING FOR ALL MECHANICAL EQUIPMENT WEIGHING OVER 400 POUNDS THAT IS DIRECTLY MOUNTED ON THE FLOOR OR ROOF AND ALL MECHANICAL EQUIPMENT WEIGHING OVER 20 POUNDS THAT IS SUSPENDED FROM THE FLOOR, WALL OR SUPPORTED BY VIBRATION ISOLATORS TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE CRITERIA OUTLINED IN THE 2007 CALIFORNIA BUILDING CODE, ASCE 7-05 SECTION 13.3. CONSIDER THE AFFECT OF TEMPERATURE CHANGE IN PREPARATION OF ANCHORAGE AND BRACING DETAILS. PROVIDE ANCHORAGE CALCULATIONS AND DETAILS CERTIFIED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA.
- PIPING SHALL BE SUPPORTED AND BRACED WITH ONE OF THE FOLLOWING SEISMIC RESTRAINT SYSTEMS:
 - THE SMACNA GUIDELINES OF THE SEISMIC RESTRAINT OF MECHANICAL SYSTEMS AND PLUMBING SYSTEMS.
 - MUSIG SEISMIC SUPPORT DEVICES.
 - THE SUPERSTRUT SEISMIC RESTRAINT SYSTEM.
 - THE B-LINE SEISMIC RESTRAINT SYSTEM.
- FIRE PROTECTION PIPING
 - THE SPACING AND DETAILS OF THE SUPPORT AND BRACING OF FIRE SPRINKLER PIPING SHALL COMPLY WITH THE LATEST EDITION OF NFPA 13.
 - PROVIDE ANCHORAGE DETAILS AND CALCULATIONS OF THE CONNECTION OF SWAY BRACING TO THE STRUCTURE.
 - DESIGN LOADS FOR THE ANCHORAGE MAY BE COMPUTED PER TABLE 4-6.4.3.5.2 OF NFPA 13, 1994 EDITION.
 - WHERE APPLICABLE DETAILS FOR THE SUPPORT AND BRACING MAY BE PER ITEM B ABOVE.
 - ALL SHOP DRAWINGS OF THE SPRINKLER SYSTEM SHALL BE SUBMITTED TO THE LOCAL FIRE MARSHAL AND MECHANICAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- CALCULATIONS AND DRAWINGS SHALL BE SUBMITTED FOR PIPING SUPPORTS AND BRACING SHOWING:
 - LOCATION OF SEISMIC BRACING.
 - REACTION FORCES TO THE SUPPORTING STRUCTURE.
 - MANUFACTURER'S DESIGNATION OF SUPPORT DEVICES.
- SEISMIC BRACING POINTS SHALL BE SUBMITTED ON CONTRACTOR'S COORDINATED SHOP DRAWINGS.

SHEET INDEX

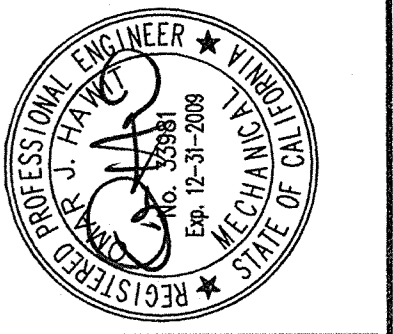
- P0.1 PLUMBING SYMBOL LIST, GENERAL NOTES, SCHEDULES, & SHEET INDEX
 P2.1 PARTIAL GROUND LEVEL FLOOR PLANS - PLUMBING
 P3.1 PLUMBING DETAILS

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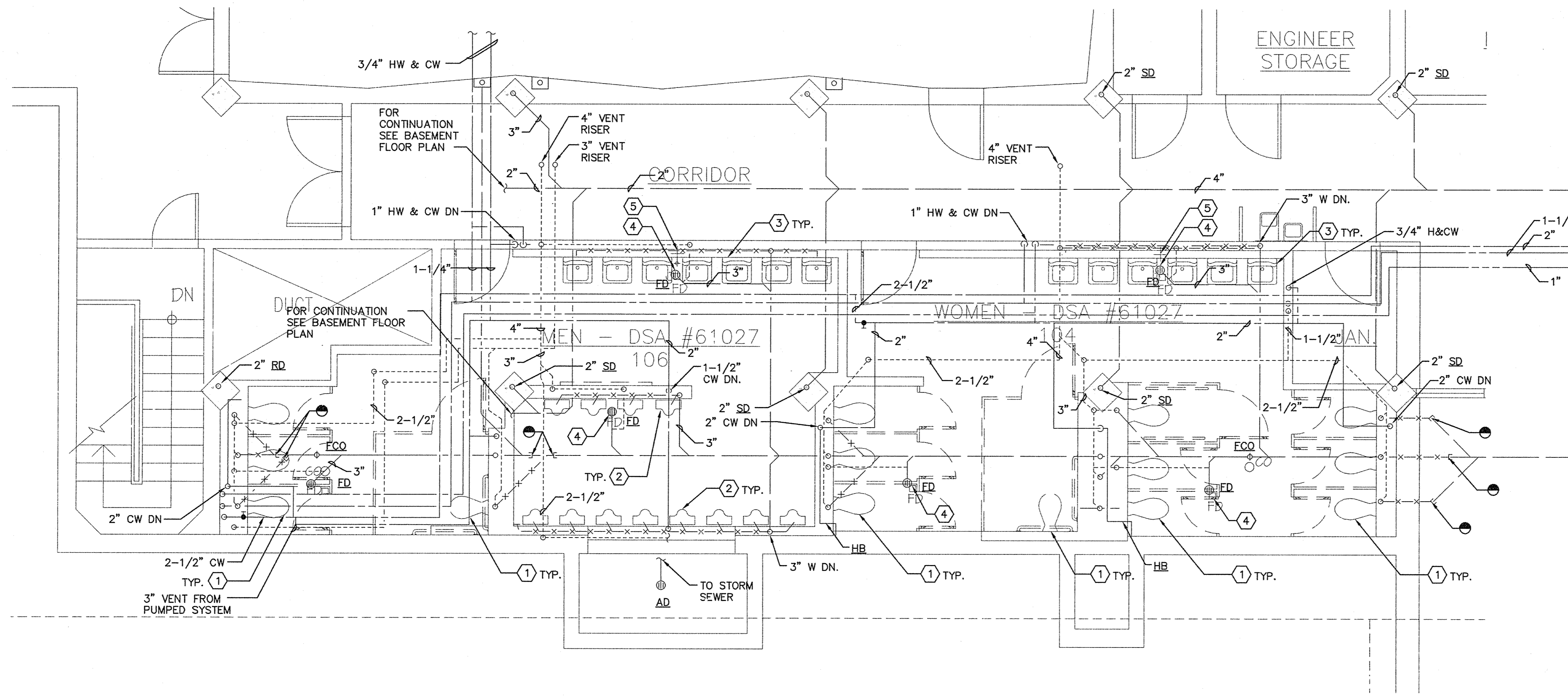
PLUMBING SYMBOL LIST, GENERAL NOTES
 SCHEDULES & SHEET INDEX
COLLEGE OF SAN MATEO BUILDING 9 RESTROOM REMODEL
SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT
 1700 WEST HILLSDALE BLVD.
 SAN MATEO, CALIFORNIA

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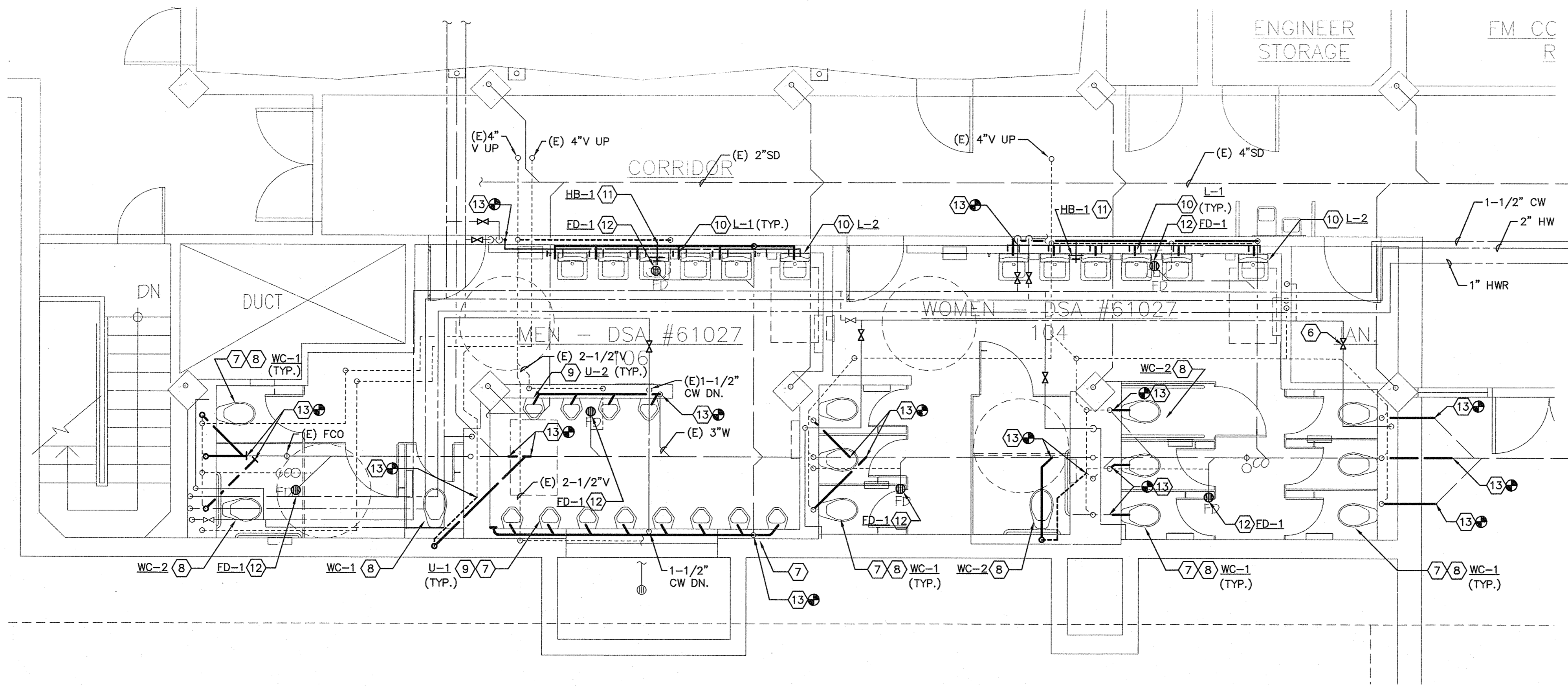
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P0.1
 OF 8 SHEETS

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1 PARTIAL GROUND LEVEL DEMOLITION FLOOR PLAN - PLUMBING
 SCALE: 1/4"=1'-0"



2 PARTIAL GROUND LEVEL NEW FLOOR PLAN - PLUMBING
 SCALE: 1/4"=1'-0"

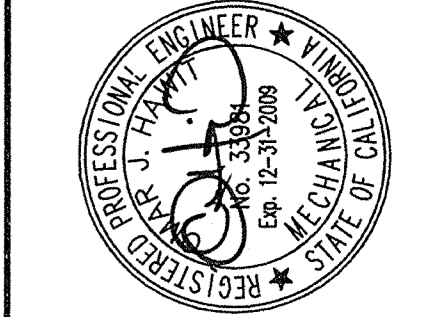
SHEET KEYNOTES

- 1 REMOVE (E) WALL MOUNTED WATER CLOSET INCLUDING CARRIER, FLUSHMETER VALVE, TOILET SEAT AND RELATED PIPING. CAP (E) WASTE PIPE BELOW THE FLOOR AND CAP VENT PIPE ABOVE THE FLOOR INSIDE THE WALL.
- 2 REMOVE (E) URINAL INCLUDING STOP VALVES AND RELATED PIPING. CAP (E) WASTE PIPE BELOW THE FLOOR AND CAP VENT PIPE ABOVE THE FLOOR INSIDE THE WALL.
- 3 REMOVE (E) WALL MOUNTED LAVATORY INCLUDING DRAIN, P-TRAP, SUPPLY TUBING, STOP VALVES AND RELATED PIPING. CAP (E) WASTE PIPE BELOW THE FLOOR AND CAP VENT PIPE ABOVE THE FLOOR INSIDE THE WALL. PATCH HOLE TO MATCH (E) WALL.
- 4 REMOVE (E) FD.
- 5 REMOVE (E) HOSE BIBB.
- 6 PROVIDE LINE SIZE SHUT-OFF, TYP.
- 7 PROVIDE WHA (SIZE/PDI STANDARD) W/ AP.
- 8 PROVIDE 4"W, 2"V, & 3/4"CW FOR EACH WC-1 AND WC-2. PROVIDE NEW CARRIERS AS SPECIFIED. CONNECT TO EXISTING CAPPED PLUMBING PIPING. FIELD VERIFY EXACT SIZE AND LOCATION OF (E) WORK PRIOR INSTALLING (N) WORK.
- 9 PROVIDE 2"W, 1-1/2"V, & 3/4"CW FOR EACH U-1 AND U-2. PROVIDE NEW CARRIERS AS SPECIFIED. CONNECT TO EXISTING CAPPED PLUMBING PIPING. FIELD VERIFY EXACT SIZE AND LOCATION OF (E) WORK PRIOR INSTALLING (N) WORK.
- 10 PROVIDE 1-1/2"W, 1-1/2"V, 1/2"CW & 1/2"HW FOR EACH L-1 AND L-2. CONNECT TO EXISTING CAPPED PLUMBING PIPING. FIELD VERIFY EXACT SIZE AND LOCATION OF (E) WORK PRIOR INSTALLING (N) WORK.
- 11 PROVIDE 3/4"CW FOR EACH HB-1. INSTALL HB-1 @ +18" AFF. CONNECT TO EXISTING CAPPED PLUMBING PIPING. FIELD VERIFY EXACT SIZE AND LOCATION OF (E) WORK PRIOR INSTALLING (N) WORK.
- 12 PROVIDE 2"W & 1-1/2"V FOR EACH ED-1. CONNECT TO EXISTING CAPPED PLUMBING PIPING. PROVIDE 1/2" CW, SOV TO TPV-1 @ +18" AFF W/ AP FOR ED-1. FIELD VERIFY EXACT SIZE AND LOCATION OF (E) WORK PRIOR INSTALLING (N) WORK.
- 13 POINT OF CONNECTION, FIELD VERIFY EXACT SIZE AND LOCATION OF (E) WORK PRIOR INSTALLING (N) WORK.

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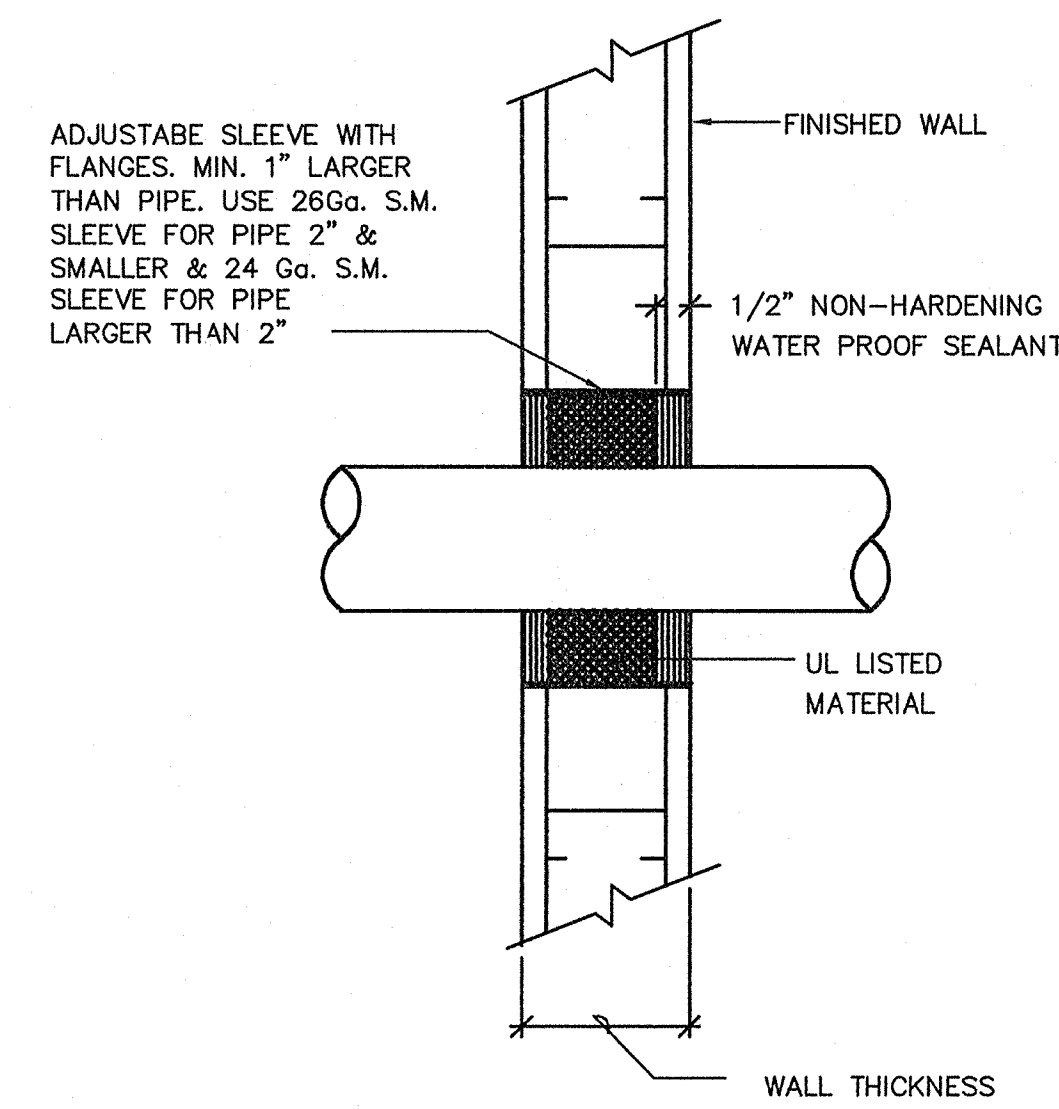
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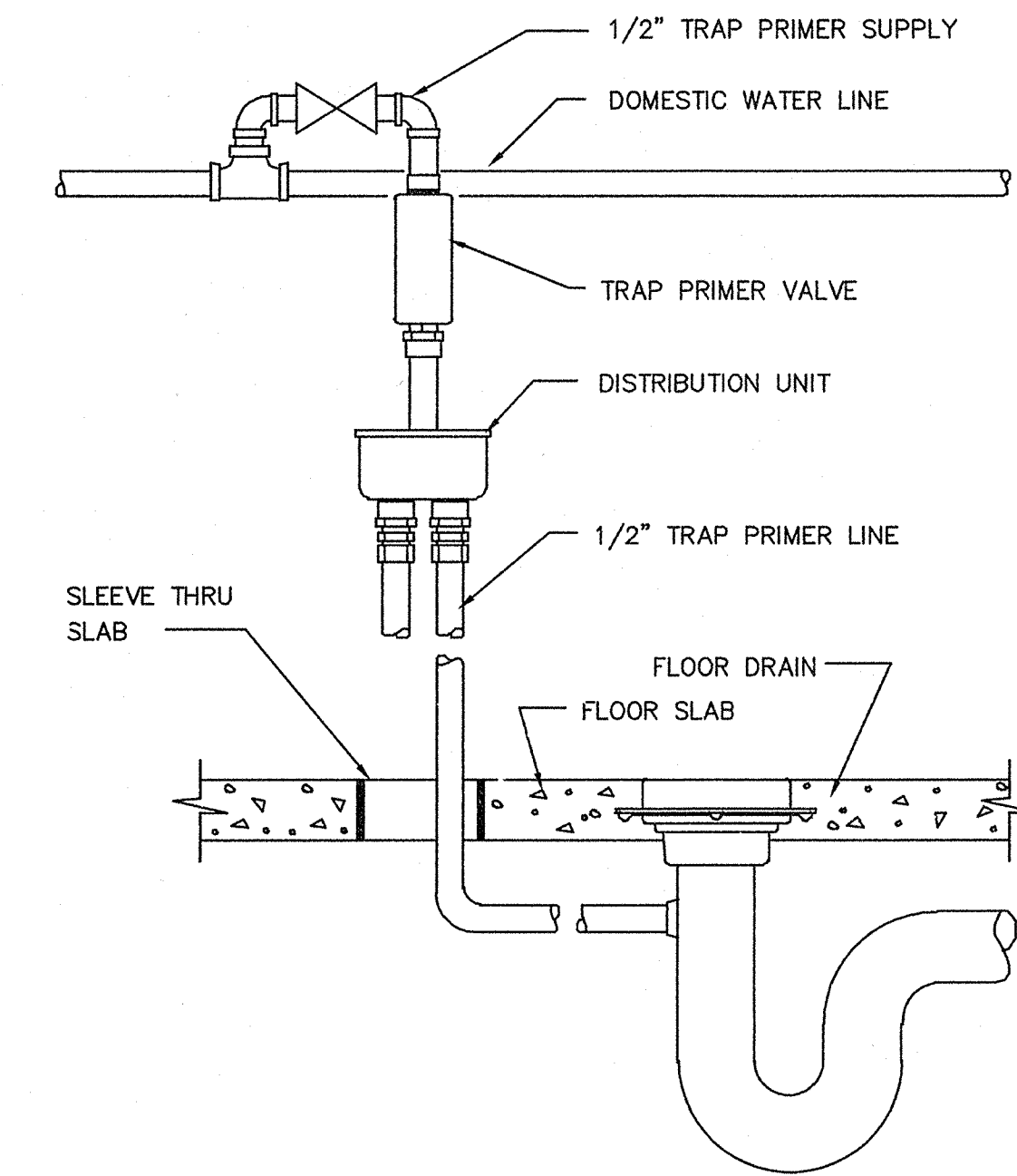
SYSTEM No. WL1003

NOTES:

- ① STEEL SLEEVE - CYLINDRICAL SLEEVE FABRICATED FROM MIN 0.019" THICK (No28 GAUGE) GALV SHEET STEEL AND HAVING A MIN. 2" LAP ALONG THE LONGITUDINAL SEAM. LENGTH OF STEEL SLEEVE TO BE EQUAL TO THICKNESS OF WALL PLUS 1" TO 4" SUCH THAT, WHEN INSTALLED, THE ENDS OF THE SLEEVE WILL PROJECT APPROX 1/2" TO 2" BEYOND THE SURFACE OF THE WALL ON BOTH SIDES OF THE WALL ASSEMBLY.
- ② PACKING MATERIAL - MIN 1" THICKNESS OF MINERAL-WOOL BATT INSULATION FIRMLY PACKED INTO STEEL SLEEVE ON BOTH SIDES OF THE WALL ASSEMBLY AS PERMANENT FORMS. PACKING MATERIAL TO BE RECESSED MIN. 1/2" FROM END OF STEEL SLEEVE (FLUSH WITH OR RECESSED INTO GYPSUM WALLBOARD SURFACE) ON BOTH SIDES OF WALL ASSEMBLY.

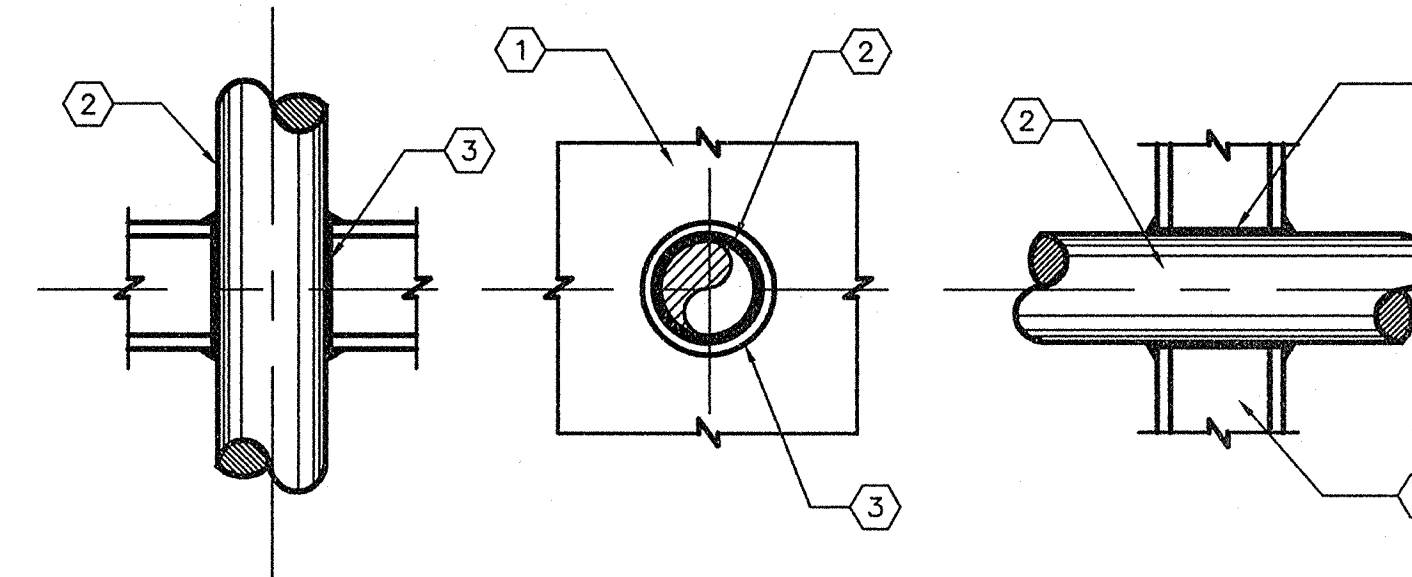
1 TYPICAL WALL PENETRATION DETAIL (BARE PIPE)

NO SCALE



3 TRAP SEAL PRIMER DETAIL

NO SCALE



PACK SPACE BETWEEN PIPING AND PENETRATION OPENING WITH MATERIAL APPROVED BY UNDERWRITERS LABORATORIES FOR THROUGH PENETRATION FIRE STOP SYSTEMS. MATERIALS, METHODS, AND INSTALLATION SHALL BE IN ACCORDANCE WITH UL APPROVED LISTING AND SHALL BE DESIGNED TO ACT AS A FIRESTOP AS WELL AS A COLD SMOKE, NOXIOUS GAS AND WATER SEALANT. SUBMIT LISTING NUMBERS AND DETAILS FROM UL FIRE RESISTANT DIRECTORY FOR ALL SUCH SYSTEMS TO BE USED. INSULATE PIPES 3 FEET TO EITHER SIDE OF PENETRATION WITH MATERIAL SPECIFIED IN THE UL FIRE RESISTANCE DIRECTORY IF REQUIRED TO OBTAIN THE T- AND F- RATINGS.

- ① WALL AND FLOOR
- ② PIPE OR INSULATED PIPE
- ③ FIRE BARRIER - "JM PRODUCTS INC." FIRE BARRIER CAULK CP25 WB+, CP 25WB, CP 25 N/S AND S/L, FIRE BARRIER 2000+, 2000 AND 2003 SILICONE SEALANTS, MOLDABLE PUTTY.

USE FOLLOWING APPLICABLE UL SYSTEMS FOR THE CONSTRUCTION TYPES LISTED.

CONSTRUCTION TYPE	THROUGH PENETRATION FIRESTOP SYSTEM NUMBERS
CONCRETE FLOORS	CAJ1007 (F-2, 3, 4 HR; T-0 HR), CAJ1010 (F-2 HR; T-0 HR), CAJ1012 (F-1 HR; T-0 HR), CAJ1017 (F-2, 3 HR; T-0 HR), CAJ1021 (F-3 HR; T-0, 1.5 HR), CAJ1027 (F-3 HR; T-0 HR), CAJ1044 (F-2, 3, 4 HR; T-0 HR), CAJ1058 (F-3 HR; T-3 HR), CAJ1083 (F-3 HR; T-0.5 HR), CAJ1112 (F-2 HR; T-0 HR), CAJ1175 (F-2 HR; T-0 HR), CAJ5001 (F-1.5, 2, 3 HR; T-0, 0.5, 0.75, 1 HR), CAJ5002 (F-2, 3 HR; T-0, 0.5, 1 HR), CAJ5003 (F-2 HR; T-0.5, 1 HR), CAJ5024 (F-2, 3 HR; T-1, 1.5 HR), CAJ5060 (F-2, 3 HR; T-0, 0.75, 1, 1.5 HR), CBJ1020 (F-4 HR; T-0, 0.75, 1.5 HR)
CONCRETE OR MASONRY WALLS	CAJ1001 (F-3 HR; T-0 HR), CAJ1017 (F-2, 3 HR; T-0 HR), CAJ1021 (F-3 HR; T-0, 1.5 HR), CAJ1027 (F-3 HR; T-0 HR), CAJ1044 (F-2, 3, 4 HR; T-0 HR), CAJ1058 (F-3 HR; T-0 HR), CAJ1083 (F-3 HR; T-0.5 HR), CAJ1112 (F-2 HR; T-0 HR), CAJ1175 (F-2 HR; T-0 HR), CAJ5001 (F-1.5, 2, 3 HR; T-0, 0.5, 0.75, 1 HR), CAJ5002 (F-2, 3 HR; T-0, 0.5, 1 HR), CAJ5003 (F-2 HR; T-0.5, 1 HR), CAJ5024 (F-2, 3 HR; T-1, 1.5 HR), CAJ5060 (F-2, 3 HR; T-0, 0.75, 1, 1.5 HR), CBJ1020 (F-4 HR; T-0, 0.75, 1.5 HR)
GYPSUM WALLBOARD/STUD WALLS	WL1001 (F-1, 2, 3, 4 HR; T-0, 1, 2, 3, 4 HR), WL1002 (F-1, 2 HR; T-0 HR), WL1003 (F-1, 2 HR; T-0 HR), WL2002 (F-1, 1.5, 2 HR; T-0.75, 1, 1.5, 2 HR), WL2003 (F-1, 2 HR; T-1, 2 HR), WL2004 (F-2 HR; T-0.75, 1.5, 2 HR), WL2005 (F-1, 2 HR; T-0, 0.75, 1, 1.5, 2 HR), WL5001 (F-1, 2 HR; T-1, 1.5 HR), WL5002 (F-1, 2 HR; T-1, 2 HR)

PIPE PENETRATION 2 THRU FIRE RATED BARRIER DETAIL

NO SCALE

PLUMBING DETAILS

COLLEGE OF SAN MATEO BUILDING 9 RESTROOM REMODEL
SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT
1700 WEST HILSDALE BLVD.
SAN MATEO, CALIFORNIA

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 JOB NO: 2889 DATE: 07/07/2009

P3.1

OF 8# SHEETS

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ELECTRICAL SYMBOL LIST

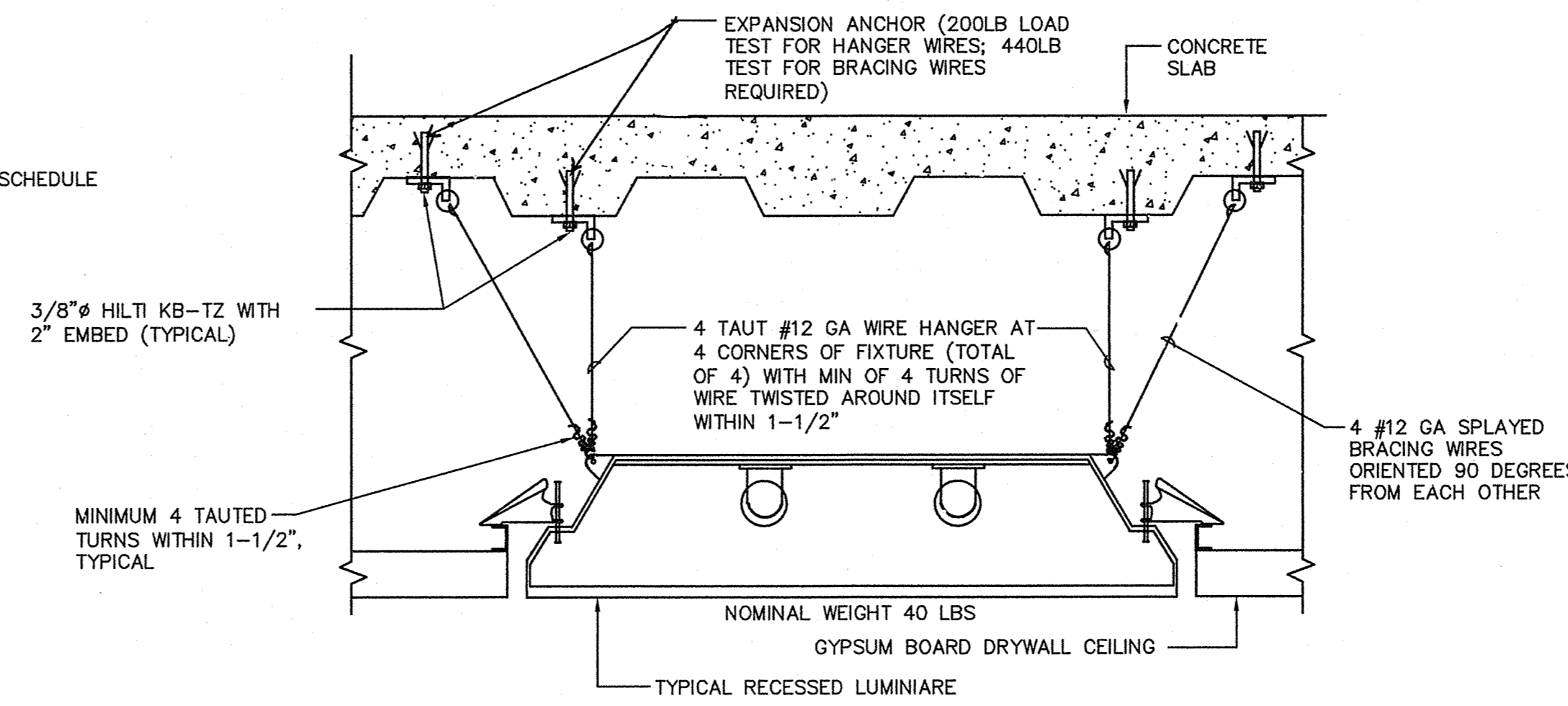
* This is a standard list and not all symbols and abbreviations may be used.

LIGHTING	
	RECESSED FLUORESCENT 2' X 4' LUMINAIRE
	RECESSED FLUORESCENT 1' X 4' LUMINAIRE
	RECESSED 1X4 FLUORESCENT LUMINAIRE WITH CENTER LAMP CONNECTED TO EMERGENCY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
	EXIT SIGN WALL MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
	EXIT SIGN CEILING MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
SWITCHES AND RECEPTACLES	
	SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH THRU 2 (LOWER CASE) = LUMINAIRE CONTROL DESIGNATION D = DIMMER F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH
	CEILING MOUNTED OCCUPANCY SENSOR P = PASSIVE INFRARED D = DUAL TECHNOLOGY U = ULTRASONIC, 360 DEG RANGE H = ULTRASONIC, HALLWAY PATTERN
	DUPLEX RECEPTACLE A = ABOVE COUNTER B = CLOCK HANGER C = FLUSH CEILING MOUNTED F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE W = WEATHERPROOF CONTINUOUS USE COVER AND GFCI PROTECTED
	DOUBLE DUPLEX RECEPTACLE. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS
MISCELLANEOUS	
	CONDUIT ELLED UP
	CONDUIT ELLED DOWN
	CONDUIT/WIRING STUBBED OUT WITH END CAP OR INSULATED PLASTIC BUSHING
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
	FLUSH MOUNT EQUIPMENT ENCLOSURE AS NOTED
	BRANCH PANEL
	FLUSH WALL MOUNTED BRANCH PANEL
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
	FLEXIBLE CONDUIT

#10 ---HFC B-27,29	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
---	CONDUIT CONCEALED IN WALL OR CEILING SPACE
---	CONDUIT Routed BELOW FLOOR / GRADE
○	SHEET KEYNOTE
○	MECHANICAL EQUIPMENT CONNECTION ITEM. REFER TO SCHEDULE

ABBREVIATIONS

A	AMPERES
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AV	AUDIO VISUAL
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CATV	CABLE TELEVISION
CLG	CEILING
CU	COPPER
E	EMERGENCY
(E)	EXISTING
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
G, GND	GROUND
IG	ISOLATED GROUND
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KW	KILOWATT
M	MOTOR
MCA	MINIMUM CIRCUIT AMPS
MOCP	MAXIMUM OVERCURRENT PROTECTION
NC	NORMALLY CLOSED
NL	NIGHT LIGHT
NO	NORMALLY OPEN
PH	PHASE
TTB	TELEPHONE TERMINAL BOARD
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UPS	UNINTERRUPTABLE POWER SUPPLY
V	VOLTS, VOLTAGE
W	WIRE
WP	WEATHERPROOF



RECESSED FLUORESCENT 1 LUMINAIRE HANGING METHOD

NO SCALE

LUMINAIRE SCHEDULE

THIS LUMINAIRE SCHEDULE IS NOT COMPLETE WITHOUT A COPY OF THE PROJECT MANUAL CONTAINING THE ELECTRICAL SPECIFICATIONS.

TYPE A	DESCRIPTION: RECESSED LENSED FLUORESCENT TROFFER. HOUSING: 1" BY 4" COLD ROLLED STEEL HOUSING. LENS: #12 PATTERN, 0.125" THICK ACRYLIC DIFFUSER. BALLAST: ELECTRONIC. LAMP: ONE F32T8. INPUT WATTS: 32. MANUFACTURERS: LITHONIA SP SERIES, METALUX GC SERIES, DAYBRITE, HUBBELL, COLUMBIA, LIGHTOLIER, HE WILLIAMS OR APPROVED.
TYPE X	DESCRIPTION: UNIVERSAL MOUNTED L.E.D. EXIT SIGN. HOUSING: IMPACT RESISTANT THERMOPLASTIC. LENS: PROVIDE DIFFUSING LENS. BALLAST: CONNECT TO EXISTING EMERGENCY CIRCUIT IN THE AREA. NOTE: PROVIDE SELF DIAGNOSTIC. LAMP: GREEN L.E.D. INPUT WATTS: 2.3. MANUFACTURERS: LITHONIA LQM EL N SERIES OR APPROVED EQUAL.

LUMINAIRE SCHEDULE GENERAL NOTES

- VERIFY LUMINAIRE VOLTAGE WITH BRANCH CIRCUIT SUPPLYING POWER TO LUMINAIRE PRIOR TO ORDERING.
- IF FLUORESCENT LAMPS TO BE 3500K WITH A MINIMUM CRI OF 80.
- VERIFY AND COORDINATE ALL CEILING TYPES WITH LUMINAIRE LOCATIONS.
- SPECIFIED MANUFACTURERS ARE APPROVED TO SUBMIT BID WHERE SPECIFIED. INCLUSION DOES NOT RELIEVE MANUFACTURER FROM PROVIDING PRODUCT AS DESCRIBED.
- ALL LUMINAIRES OF LINEAR FLUORESCENT TYPE SHALL BE PROVIDED WITH AN INTEGRAL BALLAST DISCONNECT IN COMPLIANCE WITH CEC 410.73(G).

GENERAL ELECTRICAL NOTES

- DO NOT COMMENCE INSTALLATION OF ELECTRICAL SYSTEMS AND EQUIPMENT WITHOUT RELATED SHOP DRAWING APPROVALS.
- REMOVE EXISTING MATERIALS CONFLICTING WITH REMODEL WORK INDICATED IN CONSTRUCTION DOCUMENTS AND SUBJECT TO CONDITIONS INDICATED IN SUCH.
- REMOVE ELECTRICAL MATERIALS MOUNTED IN OR ON WALLS AND CEILING TO BE REMOVED AS INDICATED IN ARCHITECTURAL CONSTRUCTION DOCUMENTS.
- REMOVE ELECTRICAL SYSTEMS SCHEDULED FOR REMOVAL UP TO ADJACENT OUTLET TO REMAIN OR BACK TO PANELBOARD, CABINET, ETC.
- CONCEALED CONDUIT LOCATED IN CONCRETE WALLS OR HARDBOARD CEILING SPACES MAY BE ABANDONED IN PLACE. REMOVE CONDUCTORS AND TAG ABANDONED CONDUITS WITH CORRESPONDING SYSTEM AND TERMINATION POINT.
- MAINTAIN IN OPERATION EXISTING SYSTEMS NOT INDICATED FOR REMOVAL IN CONSTRUCTION DOCUMENTS.
- SCHEDULE DOWN-TIME WITH OWNER AT LEAST 14 DAYS PRIOR TO BEGINNING DEMOLITION WORK.
- COORDINATE AND SEQUENCE DEMOLITION WORK WITH PROVISIONS OF CONSTRUCTION DOCUMENT DIVISIONS.
- PROVIDE TEMPORARY SUPPORT FOR ELECTRICAL SYSTEMS THAT REMAIN IN PLACE.
- VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING WITH WORK. PROVIDE ADDITIONAL SPLICE BOXES, ETC., AS REQUIRED FOR A COMPLETE AND PROPERLY OPERATING SYSTEM. REUSE IN PLACE EXISTING CONDUIT NOT REMOVED DURING DEMOLITION IF SIZED IN ACCORDANCE WITH THE LATEST EDITION OF THE C.E.C. (CALIFORNIA ELECTRICAL CODE) AND THOROUGHLY CLEANED AND SWABBED PRIOR TO PULLING NEW WIRES.
- CUT AND CAP ABANDONED CONDUIT. DO NOT EXTEND STUBS ABOVE FLOOR.
- PROVIDE CLOSURE PLATES FOR ABANDONED FLUSH OUTLETS.
- WHERE REMOVAL OF OUTLET(S), WALL OR PORTION OF THE CIRCUIT INTERRUPTS EXISTING CONDUIT AND/OR CIRCUIT, AND RESULTS IN LOSS OF CIRCUIT CONTINUITY, REROUTE, EXTEND AND RECONNECT REMAINING CONDUIT AND/OR CIRCUIT AS REQUIRED TO PROVIDE CONTINUITY OF THE CIRCUIT THAT REMAINS IN SERVICE TO OUTLETS AND EQUIPMENT.
- OFFER REMOVED LUMINAIRES, WIRING DEVICES, PANELBOARDS AND EQUIPMENT TO THE OWNER. IF OWNER CHOOSES TO RETAIN THESE ITEMS, RETURN SUCH ITEMS TO OWNER. CAREFULLY REMOVE AND DISPOSE OF ITEMS REJECTED BY OWNER FROM PROJECT SITE AND IN A LEGAL MANNER.
- RECONNECT EXISTING LUMINAIRES NOT SHOWN ON DRAWINGS AND AFFECTED DUE TO DEMOLITION TO NEAREST AVAILABLE EXISTING LIGHTING CIRCUIT ABLE TO TAKE THE ADDITIONAL LOAD.
- PROVIDE SUITABLE ANCHORAGE AND SUPPORT FOR ELECTRICAL EQUIPMENT IN RATED WALLS, SLABS AND CEILINGS. MOUNT DEVICES AND RACEWAYS IN ACCORDANCE WITH ESTABLISHED CODES AND SPECIFICATIONS.
- REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- DRAWINGS AND SPECIFICATIONS COMPLIMENT EACH OTHER. REQUIREMENT BY EITHER INFERS REQUIREMENT BY BOTH.
- CONNECT EQUIPMENT AND DEVICES FURNISHED UNDER OTHER DIVISIONS OF THIS CONTRACT, BY OWNER OR BY OTHER CONTRACTS.
- PROVIDE CONCEALED AND FLUSH MOUNTED INSTALLATION OF DEVICES AND EQUIPMENT IN AREAS, U.O.N.
- FOR 120 VOLT, 20 AMP CIRCUITS, WHERE CIRCUIT DISTANCE FROM PANELBOARD TO FARTEST DEVICE/FIXTURE EXCEEDS 75 FEET, PROVIDE #10 SIZE CONDUCTOR.
- RUN ELECTRICAL CONDUIT CONCEALED AND PARALLEL TO BUILDING LINES. VERIFY WITH ARCHITECT.
- RECEPTACLE OUTLETS SHALL COMPLY WITH CEC SECTION 210.7.
- LIGHTS, SWITCHES AND CONTROL MECHANISMS SHALL COMPLY WITH CEC SECTION 404.
- BRACE ELECTRICAL EQUIPMENT TO RESIST A HORIZONTAL FORCE THAT ACT IN ANY DIRECTION. COMPLY WITH TITLE 24 REQUIREMENTS.
- INSTALL COMPLETE SYSTEM OF CONDUCTORS IN RACEWAY SYSTEM THROUGHOUT BUILDING FOR FEEDERS, BRANCH CIRCUITS, ETC.
- OCCUPANCY SENSOR NOTES:
 - SEE MANUFACTURER'S SPECIFICATION REGARDING PLACING SENSORS AWAY FROM STRONG AIR-FLOW. INDICATE PRECISE LOCATION OF EACH CEILING SENSOR WHERE DRAWINGS INDICATE AIR SUPPLIES.

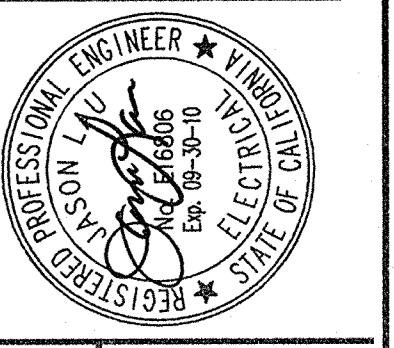
SHEET INDEX

- | | |
|------|---|
| E0.1 | ELECTRICAL SYMBOL LIST, GENERAL NOTES & SHEET INDEX |
| E0.2 | TITLE 24 CALCULATIONS |
| E2.1 | PARTIAL GROUND LEVEL FLOOR PLAN - ELECTRICAL (DEMOLITION AND NEW) |

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ELECTRICAL SYMBOL LIST, GENERAL NOTES
& SHEET INDEX
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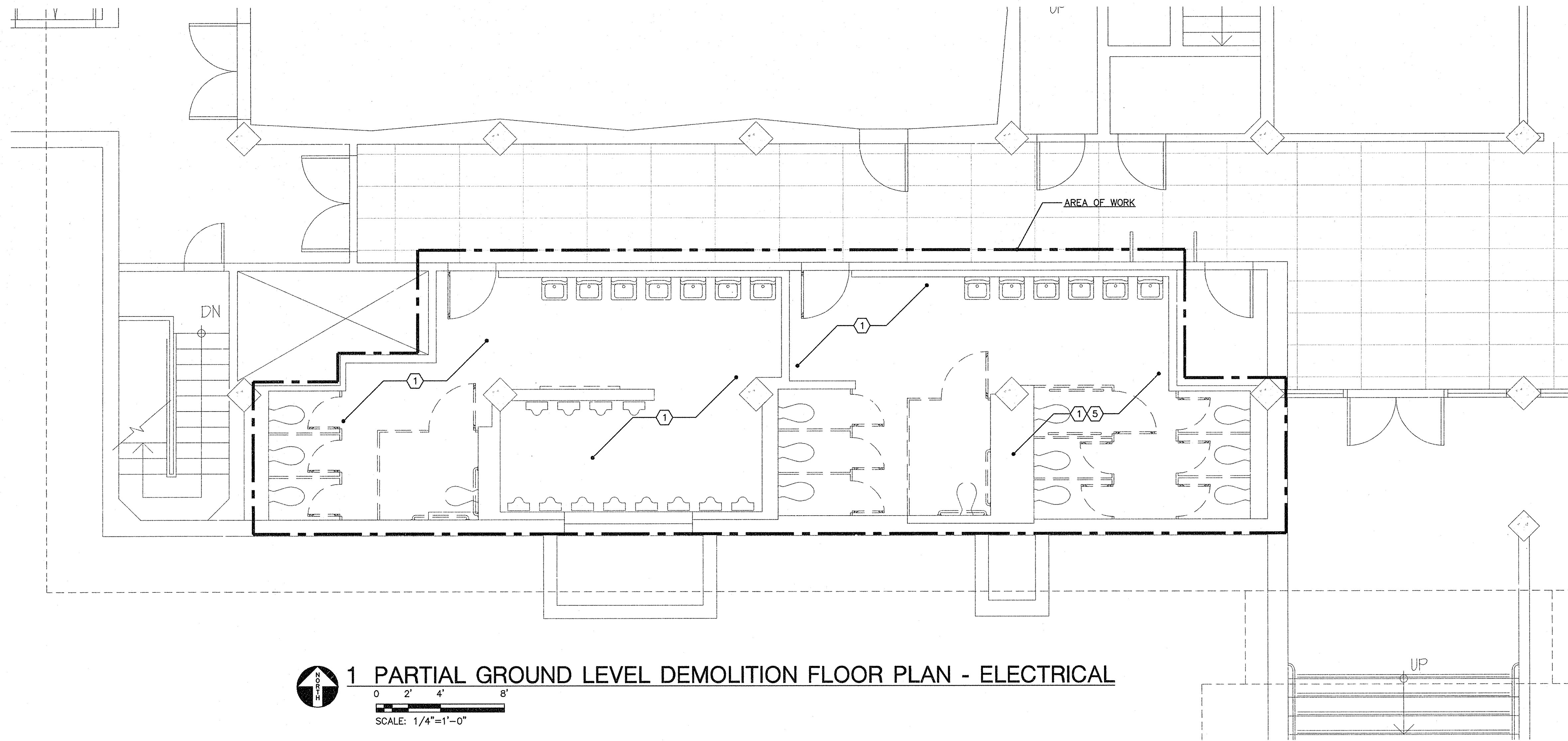
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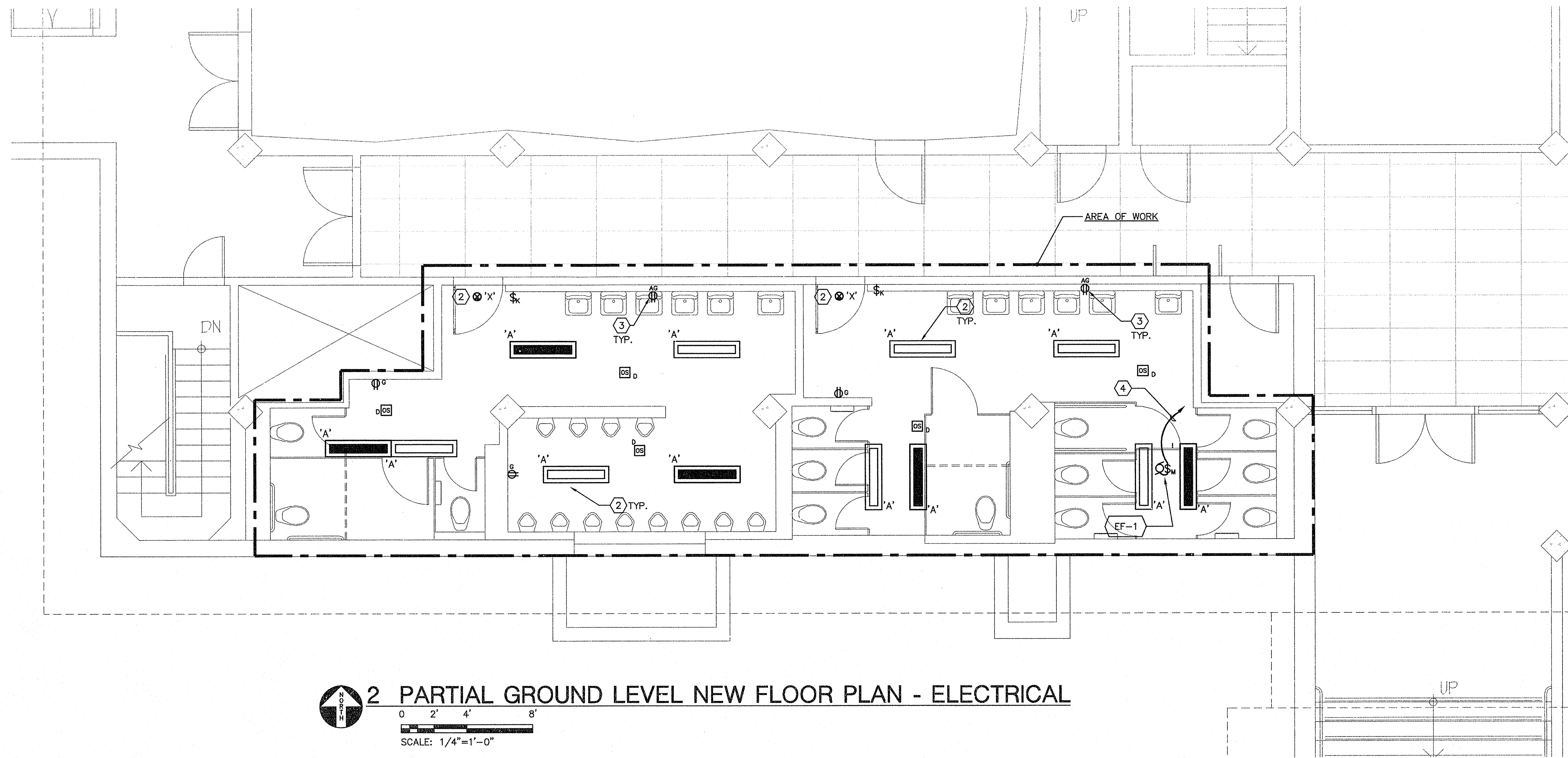
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1 PARTIAL GROUND LEVEL DEMOLITION FLOOR PLAN - ELECTRICAL
 SCALE: 1/4"=1'-0"



2 PARTIAL GROUND LEVEL NEW FLOOR PLAN - ELECTRICAL
 SCALE: 1/4"=1'-0"

GENERAL SHEET NOTES

A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF LUMINAIRES AND LIGHTING CONTROLS WITH THE ARCHITECT PRIOR TO INSTALLATION.

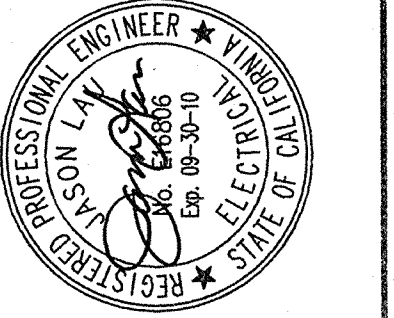
SHEET KEYNOTES

- 1 REMOVE EXISTING LUMINAIRES, RECEPTACLES, SWITCHES, OCCUPANCY SENSORS, FEEDERS, ETC., AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. TERMINATE EXISTING CIRCUITS TO NEAREST JUNCTION BOX FOR REUSE. COORDINATE AND SEQUENCE DEMOLITION WORK WITH PROVISIONS OF CONSTRUCTION DOCUMENT DIVISIONS.
- 2 INTERCEPT AND EXTEND CIRCUITS FEEDING EXISTING LUMINAIRES SLATED FOR REMOVAL TO NEW LUMINAIRES/EXIT SIGNS AND CONNECT COMPLETE AS REQUIRED TO PLACE INTO SERVICE.
- 3 INTERCEPT AND EXTEND CIRCUITS FEEDING EXISTING RECEPTACLES SLATED FOR REMOVAL TO NEW RECEPTACLES IN THE AREA.
- 4 INTERCEPT AND EXTEND CIRCUIT FEEDING EXISTING EXHAUST FAN SLATED FOR REMOVAL TO NEW EXHAUST FAN AND CONNECT COMPLETE AS REQUIRED TO PLACE INTO SERVICE.
- 5 REMOVE EXISTING FEEDER TO EXISTING EXHAUST FAN. TERMINATE EXISTING CIRCUITS TO NEAREST JUNCTION BOX FOR REUSE. COORDINATE AND SEQUENCE DEMOLITION WORK WITH PROVISIONS OF CONSTRUCTION DOCUMENT DIVISIONS.

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GROUND LEVEL FLOOR PLAN - ELECTRICAL
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OF SHEETS

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FIRE ALARM SYMBOL LIST

SYMBOL	DESCRIPTION	CSFM
	FIRE ALARM CONTROL PANEL SIEMENS MXL (EXISTING)	7300-0067:144
	NOTIFICATION APPLIANCE CIRCUIT PANEL SIEMENS PAD-3	7315-0067:221
	FIRE ALARM HORN-STROBE - # DENOTES CANDELA WHEELLOCK ZNS-MCW C = CEILING MOUNT	7125-0785:142
	FIRE ALARM STROBE - # DENOTES CANDELA WHEELLOCK ZNS-MCW C = CEILING MOUNT	7125-0785:141

SCOPE OF WORK

PROVIDE NEW FIRE ALARM NOTIFICATION APPLIANCES WITHIN THE RESTROOM REMODEL AREA. CONNECT TO NEW NOTIFICATION APPLIANCE CIRCUIT PANEL LOCATED ADJACENT TO THE EXISTING FIRE ALARM CONTROL PANEL.

ABBREVIATIONS

- FACP FIRE ALARM CONTROL PANEL
- NAC NOTIFICATION APPLIANCE CIRCUIT
- SLC SIGNALING LINE CIRCUIT
- EOL END OF LINE COMPONENT
- (E) EXISTING DEVICE TO REMAIN
- (R) REMOVE EXISTING DEVICE

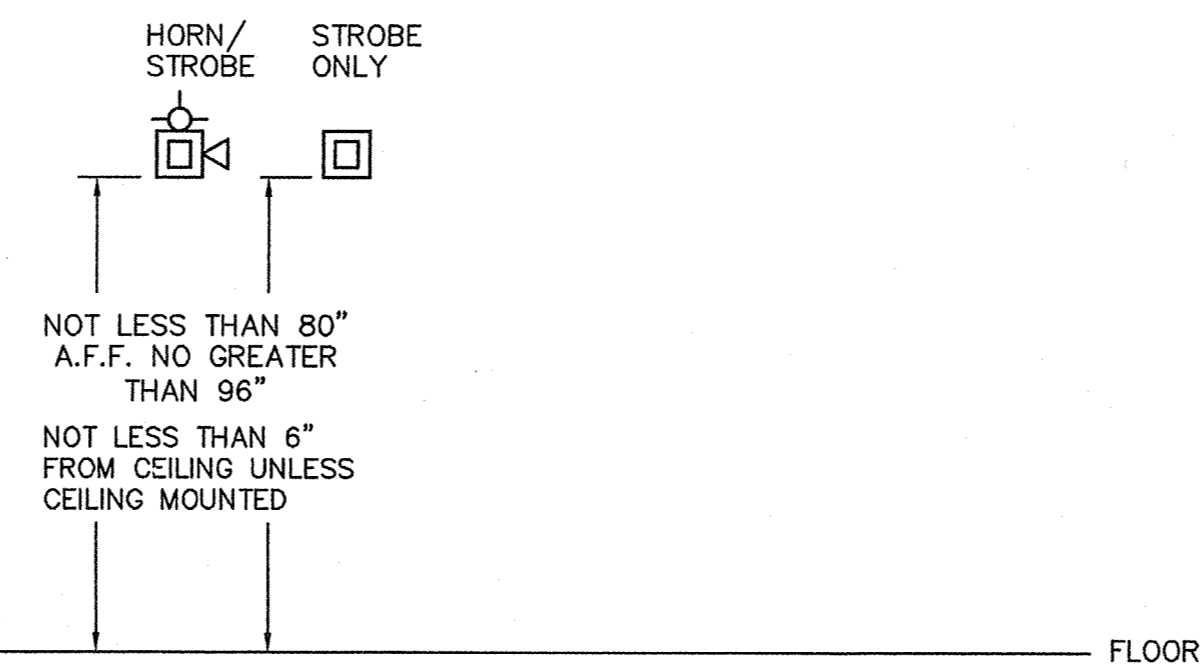
FIRE ALARM SYSTEM NOTES

- THE FIRE ALARM SYSTEM IS AN AUTOMATIC ADDRESSABLE, POWER-LIMITED FIRE ALARM SYSTEM. MANUAL PULL STATIONS ARE PROVIDED AT ALL EXITS. SMOKE DETECTORS ARE PROVIDED FOR HVAC FAN SHUT DOWN AND OTHER FIRE SAFETY FUNCTIONS.
- CLASS B, STYLE 4 SLC SYSTEM.
- NOTIFICATION APPLIANCE CIRCUITS ARE CLASS B, STYLE Y.
- MINIMUM CONDUIT SIZE TO BE 3/4" FOR FIRE ALARM SYSTEM.
- 10% MAXIMUM VOLTAGE DROP AND 80% MAXIMUM CURRENT ALLOWED FOR NOTIFICATION APPLIANCE CIRCUITS.
- LISTING NUMBERS FOR EACH COMPONENT HAVE BEEN APPROVED BY DSA. UPON COMPLETION OF THE INSTALLATION, A TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE DSA INSPECTOR OF RECORD.
- UPON COMPLETION OF SYSTEM INSTALLATION, THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF AND IN A MANNER ACCEPTABLE TO DSA/PROJECT INSPECTOR. THE CONTRACTOR MUST SUPPLY NECESSARY TESTING EQUIPMENT INCLUDING A "SOUND LEVEL METER" TO CHECK ACCEPTABLE DECEBEL LEVELS OF AUDIBLE DEVICES. PROVIDE TEST RESULTS PER THE NFPA 72 "RECORD OF COMPLETION" TO ARCHITECT, DSA, PROJECT INSPECTOR, OWNER, AND TO THE LOCAL FIRE AUTHORITY.
- THE "END OF LINE RESISTANCE" FOR EACH CIRCUIT SHALL BE TESTED IN THE PRESENCE OF THE PROJECT INSPECTOR AND SHALL NOT EXCEED A MAXIMUM OF 10% OF THE 24 VOLT SYSTEM. EACH COMPONENT IN THE CIRCUIT SHALL NOT EXCEED THE LISTED MANUFACTURER'S MINIMUM OPERATING VOLTAGES. SEE NFPA 72, LOOP RESISTANCE. THIS SECTION REQUIRES THAT ALL INITIATING AND INDICATING (NOTIFICATION APPLIANCE) CIRCUITS TO BE MEASURED AND RECORDED.
- PENETRATIONS OF ALL FIRE-RESISTIVE WALLS SHALL BE PROTECTED IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE.
- ALARM INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 dBA ABOVE THE AVERAGE AMBIENT NOISE LEVELS OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS WHICH-EVER IS GREATER. MEASURED 5' ABOVE THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL THAT CAN BE NORMALLY EXPECTED WHEN THE FACILITY, BUILDING, ROOM, OR AREA IS FUNCTIONING UNDER NORMAL OPERATING OR WORKING CONDITIONS (NFPA 72, SEC. 7.4.2).
- THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING TO ALERT THE HEARING IMPAIRED. FLASHING VISUAL WARNINGS SHALL HAVE A FLASH RATE NOT EXCEEDING 2 FLASHES PER SECOND (2 HZ) NOR BE LESS THAN ONE FLASH PER SECOND (1 HZ). STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHAL APPROVED AND LISTED (NFPA 72, SEC. 7.5.2). STROBES SHALL BE SYNCHRONIZED.

INSTALLATION NOTES:

- THE FIRE ALARM SYSTEM SHALL CONFORM TO THE ADOPTED EDITIONS OF THE CALIFORNIA ELECTRICAL CODE ARTICLE 760, CALIFORNIA CODE OF REGULATIONS TITLES 19 AND 24, AS APPLICABLE TO THIS PROJECT, AND NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARD 72.
- INSTALLATION OF THE SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY DSA.
- A MINIMUM OF 48 HOURS NOTICE SHALL BE REQUIRED FOR ANY INSPECTION AND/OR TESTING.
- A STAMPED SET OF APPROVED FIRE ALARM PLANS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. ANY DEVIATION FROM APPROVED PLANS, INCLUDING THE SUBSTITUTION OF DEVICES, SHALL BE APPROVED BY DSA.
- DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD.
- A CERTIFICATE OF COMPLIANCE SHALL BE PREPARED BY THE INSTALLER AND GIVEN TO THE INSPECTOR UPON COMPLETION OF THE INSTALLATION.
- ALL FIRE ALARM CIRCUITS ARE CONTINUOUS FROM DEVICE TO DEVICE. SPLICES ARE NOT ALLOWED UNLESS IN COVERED JUNCTION BOXES ON APPROVED TERMINAL BLOCKS. WHEN SPLICING TSP, IT IS NECESSARY THAT ALL SUCH CONNECTIONS BE SOLDERED (RESIN-CORE SOLDER), CRIMPED IN METAL SLEEVES, ENCAPSULATED WITH AN EPOXY RESIN OR JOINED BY WIRE NUTS. WHEN SOLDER OR CRIMPED METAL SLEEVES ARE USED, THE JUNCTION MUST BE INSULATED WITH A HIGH GRADE ELECTRICAL TAPE AS SOUND AS THE ORIGINAL INSULATING JACKET. CONTINUITY OF THE SHIELD MUST BE MAINTAINED.
- NUMBER ADJACENT TO ADDRESSABLE DEVICES INDICATES SLO# AND ADDRESS. NUMBER ADJACENT TO NOTIFICATION APPLIANCES INDICATES CIRCUIT NUMBER AND DEVICE SEQUENCE, E.G., NA1-7 IS THE 7TH DEVICE ON CIRCUIT A1.
- THE FIRE ALARM SIGNALS SHALL BE DISTINCTIVE IN SOUND FROM ANY OTHER SIGNALS AND THAT THIS SOUND NOT BE USED FOR ANY OTHER PURPOSE. TO MEET THIS REQUIREMENT, THE FIRE ALARM SIGNAL USED TO NOTIFY BUILDING OCCUPANTS OF THE NEED TO EVACUATE (LEAVE THE BUILDING) SHALL MATCH EXISTING SOUND & PATTERN.
- AREA SMOKE DETECTORS SHALL NOT BE LOCATED CLOSER THAN 3'-0" FROM:
 - THE DOOR TO A KITCHEN OR A BATHROOM CONTAINING A TUB OR SHOWER.
 - SUPPLY REGISTERS OF A FORCED AIR HEATING OR COOLING SYSTEM.
- ALL EXTERIOR AND UNDERGROUND CONDUIT SHALL BE WATERTIGHT.
- ALL WIRING SHALL BE IN CONDUIT.

CAUSE	EFFECT				ALARM				TROUBLE/SUPERVISORY				MISC.			
	ALARM AT FACP	ALARM TO CENTRAL STATION	ACTIVATE AUDIBLES	ACTIVATE VISUALS	TROUBLE AT FACP	TROUBLE TO CENTRAL STATION	SUPERVISORY AT FACP	SUPERVISORY TO CENTRAL STATION	RESET FACP AND FIELD DEVICES	DEACTIVATE AUDIBLES	DEACTIVATE VISUALS					
SPOT TYPE SMOKE DETECTOR	•	•	•	•												
SPOT TYPE HEAT DETECTOR	•	•	•	•												
MANUAL PULL STATION	•	•	•	•												
SYSTEM SILENCE																
SYSTEM RESET																
POWER FAILURE					•	•										
FIRE ALARM TROUBLE (OPEN, OR GROUND) ON INITIATION OR SIGNAL CIRCUITS					•	•										



1 MOUNTING HEIGHT REQUIREMENTS

NO SCALE

FIRE ALARM MONITORING NOTE

AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY ARTICLE 91. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFJ OR UJJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.

WIRE SCHEDULE

B	1 PAIR #14
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NOTE: LETTER DESIGNATION INDICATES CABLE TYPE. NUMBER OF HASH MARKS INDICATES QUANTITY OF CABLES. E.G., —#—, INDICATES TWO, #14 TP CABLES.

SHEET INDEX

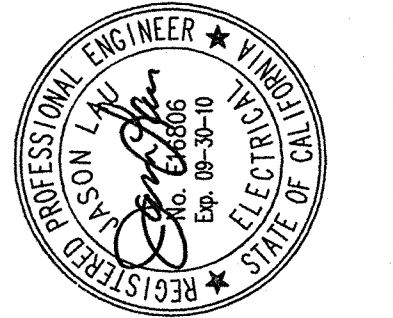
- F0.1 FIRE ALARM SYMBOL LIST, MATRIX & SHEET INDEX
- F2.1 GROUND LEVEL FLOOR PLAN - FIRE ALARM
- F3.1 FIRE ALARM RISER DIAGRAM AND CALCULATIONS

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FIRE ALARM SYMBOLS LIST, MATRIX,
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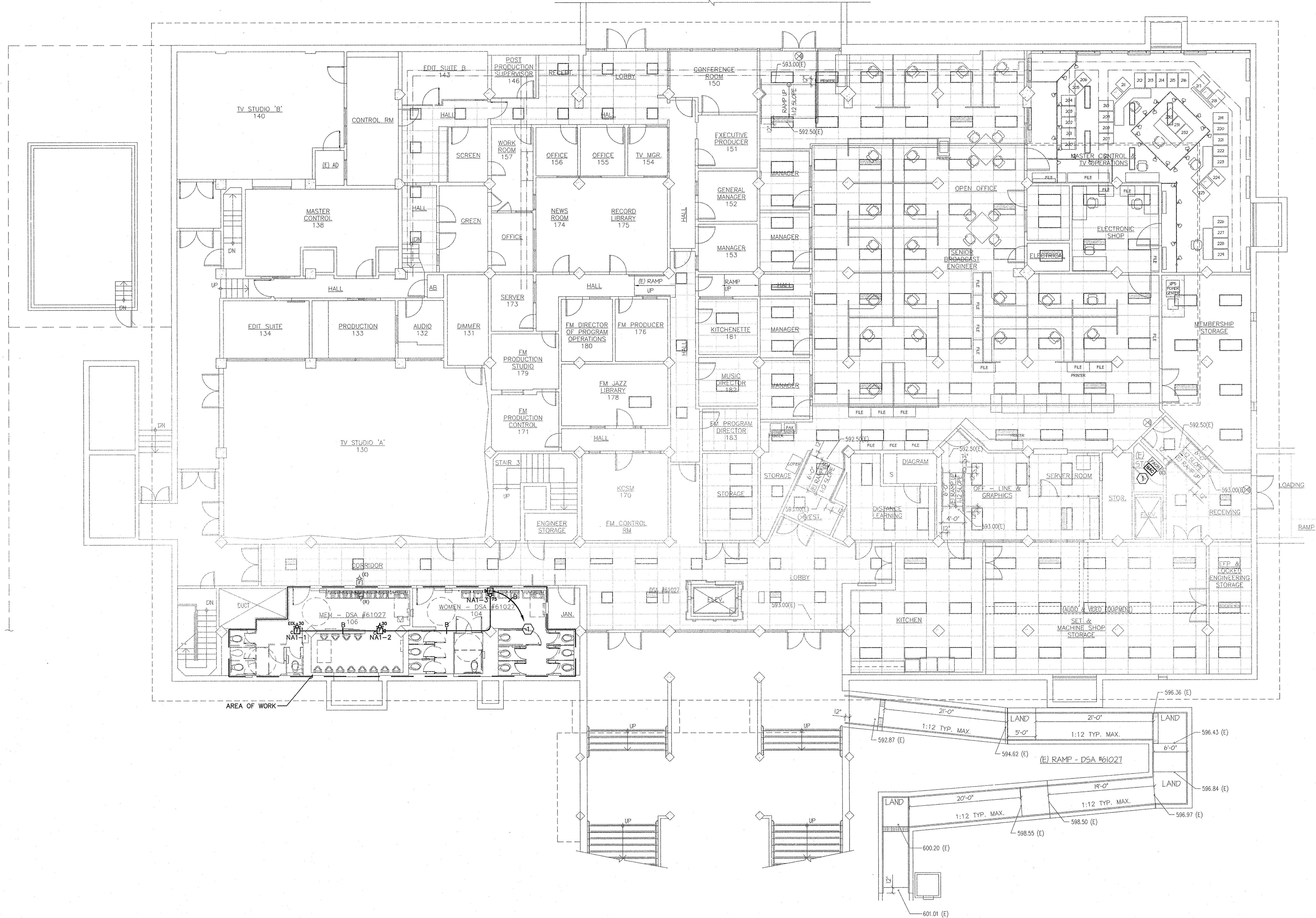
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SHEET KEYNOTES

① HOME RUN TO NAC AT FACP LOCATION.



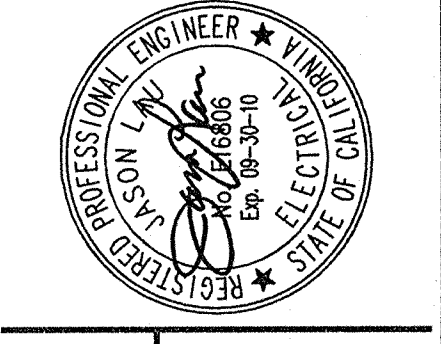
1 GROUND LEVEL FLOOR PLAN - FIRE ALARM
 SCALE: 1/8"=1'-0"

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GROUND LEVEL FLOOR PLAN - FIRE ALARM
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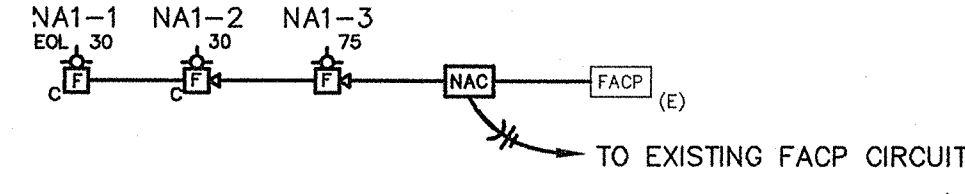
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1 PARTIAL FIRE ALARM RISER DIAGRAM
NO SCALE

SIEMENS PAD-3 BATTERY CALCULATIONS			
DEVICE	QUANTITY	STANDBY CURRENT (A)	ALARM CURRENT (A)
PAD-3 CONTROL	1	0.035	0.140
NOTIFICATION APPLIANCES			
NA1	3		0.383
TOTAL AMPERAGE		0.035	0.523
STANDBY HOURS (h)		24	
STANDBY AMP HOURS (Ah)		0.840	
ALARM OPERATION (h)			0.0833
ALARM AMP HOURS (Ah)			0.044
TOTAL AMP HOURS (Ah)			0.884
BATTERY DERATING FACTOR			1.250
BATTERY AMP HOUR RATING (Ah)			1.104

NOTIFICATION CIRCUIT - NA1						
VOLTAGE DROP CALCULATIONS						
BASED ON POINT-TO-POINT OHMS CALCULATIONS. ACCEPTABLE LIMIT 92% ± 2% @ 24 GAUGE						
OHMS = (8M FEET × 0.07/1000) + (82 FEET × 120/1000) + 80 FEET × 120/1000) × 2						
1) A/V 150d	0.074	2) A/V 300d	0.107	3) A/V 750d		0.184
4) A/V 100d	0.244	5) V/O 150d	0.060	6) V/O 300d		0.092
7) V/O 750d	0.165	8) V/O 100d	0.220	9) A/V 150d		0.350
10) A/V 150d	0.477	11) V/O 150d	0.300	12) A/O WP		0.044

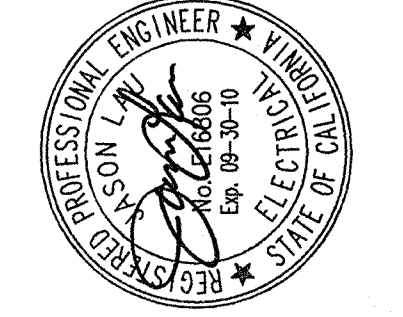
DEVICE TYPE #	DEVICE #	TO DEVICE #	LINEAR FEET BETWEEN DEVICES			RESISTANCE OF WIRES (OHMS)	LOAD ON RUN (AMPS)	VOLTAGE DROP (VOLTS)	ACCUM. VOLTAGE DROP (V)
			#14	#12	#10				
6	1	2	15			0.092	0.082	0.008	0.008
2	2	3	30			0.184	0.199	0.037	0.045
3	3	NAC	150			0.921	0.383	0.353	0.398

Percent Loss: 1.66%

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