

**PVC CLAYPOOL BUILDING SCOPE DESCRIPTION**

UPDATE 3/20/19



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The following list of scope items is to be used together with the attached DSA approved set of plans.

Note that ALL **highlighted** items in the plan set must be addressed, and are considered part of the scope of work, whether or not they appear in the written list below.

ITEM #	DSA SET SHEET #	LOCATION ON SHEET	ITEM DESCRIPTION	DESCRIPTION OF CORRECTIVE WORK REQUIRED	REMARKS	DESTRUCTIVE INVESTIGATION FIELD FINDINGS
<b>ARCHITECTURAL</b>						
A-001	A1.1	Site Plan - East of building	DSA set shows addition of concrete ADA pathway from public right of way (Main Broadway) across DG area to connect with path of travel adjacent to rear parking area	Install new concrete path as shown on DSA approved set		N/A
A-003	A1.1	East of rear entrance	Existing condition observed: Concrete steps lead to traffic aisle with no tactile warning (domes)	Install truncated domes as shown on approved set		N/A
A-004	A2.2	Grids 2-B	DSA set shows reconfiguration of entry stairs and addition of wheelchair lift	Reconfigure entry stair and install wheelchair lift as shown on approved set		N/A
A-005	A2.2	Grids 2-B, 4-C, 11/A7.1	DSA set calls for fully rated (1 hour) egress stair from basement level to exterior exit to Broadway. Reference also 11/A7.1	Provide 1-hour rated enclosure per approved plans		N/A
A-006	A2.2	Grids 7-F	Storage Room 11B under Stair #2 is not of 1 hour construction as noted on DSA set and required by code	Install Type X gyp board to underside of steel stairs to create a 1-hour envelope at Storage Room. Seal all gaps and penetrations as required.		Existing gyp board is fire rated, but stops at underside of stringer and does not cover underside of stairs.
A-007	A2.2	Grids 9-D, 10-E	DSA set shows addition of wall running north-south to enclose Stair #1 and the addition of a door leading to exterior exit to serve as egress from mezzanine level	Install new wall and door per approved plans. Reference 2/A7.1		N/A
A-009	A5.1	Elevation #3, South	DSA set shows added detail callouts to 14, 15 & 16 on A7.4.	<b>ALLOWANCE #1: CONTRACTOR TO OPEN BOTTOM PORTION OF ALL WALLS AT THE BASEMENT LEVEL AND ADD 3/16" DIA. HILIT KWIK CON 2 @ 32" O.C. AS REQUIRED BY DETAIL 10/A7.4</b>		Hiliti connections were found at the first floor. However, Hiliti connections were not found at the basement level. Only SMS is connecting track to floor. Connection not adequate
A-012	A6.2	Grids 9-C, 10-D & 7-F	DSA set shows addition of (3) directional emergency egress signs	INSTALL THREE NEW DIRECTIONAL EMERGENCY EXIT SIGNS PER APPROVED PLAN	Coordinate with electrical	N/A
A-013	A6.3	Grids 6-E	Confirm pendant light fixture weighs 15 lbs max. per added note on DSA set	<b>ALLOWANCE #2: CONTRACTOR TO DETERMINE EXISTING ATTACHMENT DETAIL AND SUBMIT TO AOR AND IOR FOR REVIEW. CORRECTIVE MEASURES MAY BE REQUIRED TO BRING EXISTING ATTACHMENT INTO COMPLIANCE</b>		Upon further investigation it was determined that the fixtures weigh 30 pounds. Contractor to open ceiling to verify existing attachment, Allowance.
A-015	A7.1	8/A7.1	Handrails are missing at two steps leading to stairwell door	Install handrails per approved plans		N/A
A-016	A7.1	10/A7.1	Non-accessible exit signage is missing per added note on DSA set (CBC 1117.5.B.1)	Install signage per approved plans		N/A
A-017	A7.3	3/A7.3	DSA added 1/2" max dimension between floor and cab transition. Field measurement indicates 1"-1.5" existing condition.	Contractor to consult with elevator manufacturer to provide corrective measures to comply with 1/2" maximum dimension as indicated on approved plans.		N/A
A-018	A7.3	15/A7.3	Text height indicated on detail as 3/8" min. to 1/2" max., actually measures 5/8"	Provide new compliant signage per approved plans		N/A
A-019	A7.4	1/A7.4	DSA set Type X gyp board running behind steel stringer and addition of 2.5x6 mtl stud at underside of stringer	Install gyp board and studs at underside of stringer per DSA approved plans		Gyp board stops at underside of stringer
A-020	A7.4	5/A7.4	DSA set has added notes for additions of 2.5x6" metal stud @ underside of existing stringer	Install new metal studs per DSA approved plans		
A-021	A7.4	12/A7.4	DSA set has added notes for attachment requirements	<b>ALLOWANCE #3: CONTRACTOR TO OPEN PORTION OF STAIR WALL TO DETERMINE HIDDEN CONSTRUCTION AND BRING INTO COMPLIANCE WITH 12/A7.4</b>		Unable to access. Based on hypothesis, handwritten notes on DSA set have not been implemented.
A-022	A9.1	10/A9.1	DSA set calls for threaded rod at sill connection	Provide 3/8" Dia x 2.5" Embedment Simpson Titen HD Screw Anchor (ICC-ESR-2713) at 32" O.C. as required at restroom walls with 5.5" concrete curb		Obtained visual access from below. Did not see any thru bolts.
<b>STRUCTURAL</b>						
S-002	S-3	Grids 3 to 4 & Grids A to B	Retaining wall tie-back per Details 12/S-7 has not been constructed.	Construct tie-back per DSA approved drawings.	Will require removal and re-construction of some existing elements.	N/A
S-003	S-3	Grid 9 & Grids A to G	Drag connections shown in Details 10, 13, 15, 16, 17, and 18 / S-7 have not been constructed.	Construct drag connections per DSA approved details.	Will require removal and re-construction of existing finish elements.	N/A
S-004	S-3	Grids 10 to 11 & Grids D to H	Diaphragm strengthening steel plate has not been constructed per Details 5/S-6 and 14/S-6.	Construct diaphragm strengthening per DSA approved details.	Will require removal and re-construction of existing finish elements.	N/A

S-005	S-3	Grids 8 to 9 & Grid F	New 2x12 @ 8" o.c.	Comply with Detail 12/S-6 if not constructed per DSA approved drawings.	None	Observed 2x12's @ 16" o.c.
S-006	S-4	Grid H & Grids 10 to 11	Damaged slab	Repair damaged slab per DSA approved Detail 22/S-6.	Will require removal and patching of existing roofing.	N/A
S-007	S-4	Entire Roof Perimeter	Diaphragm connection Details 6/S-5 & 7/S-5	Install perimeter connection angle at top of roof per DSA approved Details 6/S-5 and 7/S-5.	Will require removal and patching of existing roofing.	N/A
S-008	S-4	Grid 9 from Grids D to G	Drag connections shown in Details 10, 13, 15, 16, and 17 / S-7 have not been constructed.	Construct drag connections per DSA approved details.	Will require removal and re-construction of some finish elements.	N/A
<b>FIRE SPRINKLER</b>						
FS-004	FP: 1 OF 1	C/6-8	Ends of branch lines not furnished with restraints (3) in sewing lab storage room.	Install restraints at affected piping.		N/A
FS-005	FP: 1 OF 1	F-H/3-5	Cross main in open classroom should be furnished with a longitudinal sway brace.	Install one seismic brace per approved details.	Installed condition is per plan, but not per code.	N/A
FS-006	FP: 1 OF 1	F-H/3-8	Restraints missing from ends of several branch lines in open classrooms and labs.	Install restraints at affected piping.		N/A
FS-007	FP: 1 OF 1	Universal comment	Hangers are installed throughout the system that are not shown in approved plans. There is an approved detail for a beam clamp attachment to structural steel, and also a detail with anchorage to a concrete deck that was deleted with the word "OMIT" over it. Dozens of hangers are anchored to the lath and concrete deck using concrete inserts per the deleted detail.	Remove and replace existing FS pipe supports with new attachment and support per new detail 1/AF1.1		
FS-008	FP: 1 OF 1	Universal comment	Branch restraints do not conform to approved plans as installed. Plans include an approved detail for branch restraints showing #12	Provide new branch restraints as indicated on DSA approved plan FP: 1 of 1		
<b>INSPECTOR</b>						
I-002	A2.3	Line 10 (mezzanine)	2/A9.1 - Verify slab thickness and verify that correct anchorage was used	<b>ALLOWANCE #4: CONTRACTOR TO CONFIRM EXISTING WALL BASE CONNECTION AT GRID 10 ON SHEET A2.3. PROVIDE 3/16" DIA. THRU-BOLT @ 32" O.C. PER HANDWRITTEN NOTE ON 2/A9.1.</b>		Slab between Lines 10 and 11 was measured at +/- 2.5" thick. Shot-pins shot through track multiple locations, as noted in May 1 review.
I-003	S-3 (1st Floor Frm'g)	3.5 / A-B	HSS 10x and stiffening rod (12A/S7)	Sawcut slab above, provide channel to allow for placing the 1" threaded rod as shown on drawing.		Opened wall, verified installation of all the work shown on the approved drawings, EXCEPT for the 1" threaded rod (12/S-7)
I-005	S-3 (1st Floor Frm'g)	8 to 9 on H	21/S-6 Verify addition of C12 and end-plates to the ext'g beam	Add C12 as shown on approved set		Reference in detail is to a cut joist near 9/H. Did not see this Channel when looking at open ceiling from below.
I-006	S-3 (1st Floor Frm'g)	8.5 / F	Verify 2x12 @ 8" O.C.	Add 2x's per approved plans		Existing is framed 2x12 at 16" O.C.
I-007	S-3 (Mezzanine Floor)	as occurs either side of E	Verify stiffener plates along Line 9	Add work shown on approved plans		Mezzanine floor level - No column/beam work shown in Details 15, 16, 17 /S-7 is completed (Similar to I-015)
I-013	S-3 (Mezzanine Floor)	Line 10 from E-G (mezzanine plan)	Drag (Floor Span) connections (5/S-6)	Add MST126 as shown wherever 5/S6 is required		All other features shown for joist-framing in Section 5/S6 appeared to be in place
I-015	S-4 (Roof Plan)	Line E-G on Line 9	Field verify ext'g condition per note on 15,16,17/S7	Add work shown on approved plans		Mezzanine above-ceiling (roof plan) level - No column/beam added plate work shown in Details 15, 16, 17 /S-7 is completed (Similar to I-007)
I-018	S-3 (Mezzanine Floor)	Approx. D.75 to H, between 10 & 11	1/4" Steel Pl.	Add 1/4" plate as indicated in 5/S6		NONE
I-019	S-3 (Mezzanine Floor)	Lines H & 11	Perimeter angle per 5/S6 and Mezzanine floor plan	Add L 4x4 where indicated along Lines H and 11 of Mezzanine plan (ref: 5/S6)		NONE
I-020	S-3 (Mezzanine Floor)	Line 9	(N) L 6x4	Add angle per plan		ref: Detail 18/S7
I-021	S-3 (Mezzanine Floor)	At 9 & D (both sides of wal)	Strapping	Add 1/2" x 7" strp as shown per details. Repair EIFS finish.		ref: Detail 10/S7
I-023	S-3 (1st Floor Frm'g)	Stair #2	Framing shown on DSA plan for framing beneath Stair #2 as "(N) 2x8 @ 6" O.C. below"	<b>ALLOWANCE #5: PRESUMED WALL WILL NEED ADDITIONAL JOISTS AND RE-FINISH CEILING OF B-15</b>		May be observed by opening gyp-board enclosed area of ceiling in Room B-15 (Sewing Room) from below.
I-024	S-4 (Roof Plan)	Parapet	Perimeter angle as indicated	Add continuous L6x4x3/8 and related anchorage to structure as shown		ref: Details 6/S5 and 7/S5
I-025	A2.1	Rated Corridor	Column wrap (13/A9.2, sim.) is open at the level of the beam bottom flange at several locations on the Classroom side of wall.	Close in with gyp-board and fire-caulking		It is not clear how this is fire-blocked; appears that flame or smoke could enter the wall cavity via this path

I-026	A2.2	ref: A9.1 (wall types)	Anchorage of wall-types N, P, Q on top of restroom curbs. No through-bolt as noted on the DSA-approved set were observed through floor-ceiling assembly below (above lay-in ceiling of Room B-05)	<b>Provide 3/8" Dia x 2.5" Embedment Simpson Titen HD Screw Anchor (ICC-ESR-2713) at 32" O.C. as required at restroom walls with 5.5" concrete curb</b>		Assumed to be anchored using method shown on the record set.
I-027	A2.4 (Roof Plan)	Stair to roof	Hand-drawn items in referenced Details 4/A7.1 and 12/A7.4	<b>ALLOWANCE #3: CONTRACTOR TO OPEN PORTION OF STAIR WALL TO DETERMINE HIDDEN CONSTRUCTION AND BRING INTO COMPLIANCE WITH 12/A7.4</b>		Does not appear on record set / assumed not done as it appears to have been added by hand during back-check
I-028	A5.1, A5.3 (typ)	Details 14, 15, 16	Connection of wall track to raised floor	<b>Add work shown on approved plans</b>		See Item I-001, above
I-029	A6.1 RCP	Basement Classrooms/Offices	Lay-in Panel Ceilings	<b>Every lay-in panel ("T-Bar") ceilings is deficient in one or more of the following: Missing the correct number of seismic struts, splay-brace wires, and/or perimeter wires. Some perimeter wires have been cut to allow mechanical work, and must be restored. The perimeter angle must be secured to the wall at two adjacent walls, and left un-secured on the opposite wall(s).</b>		ref: Sheet A9.3 in its entirety
I-030	A6.2 RCP	1st Floor Classrooms/Offices	Lay-in Panel Ceilings	<b>Every lay-in panel ("T-Bar") ceilings is deficient in one or more of the following: Missing the correct number of seismic struts, splay-brace wires, and/or perimeter wires. Some perimeter wires have been cut to allow mechanical work, and must be restored. The perimeter angle must be secured to the wall at two adjacent walls, and left un-secured on the opposite wall(s).</b>		ref: Sheet A9.3 in its entirety
I-031	A9.1	Detail 2	Light-gauge steel framing - Gyp-board appears to be screwed through the top track (slotted for deflection)	<b>Disconnect gyp board from top track as indicated on 2/A9.1</b>		Inspector assumes that construction practices observed here were used throughout.



GENERAL NOTES

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE PROJECT SITE AS DESCRIBED IN THE CONTRACT DOCUMENTS PRIOR TO STARTING CONSTRUCTION...

2. THE SPECIFICATIONS AND CONTRACT DOCUMENTS ARE NOT TWO SEPARATE ENTITIES, BUT TOGETHER THEY FORM ONE PROJECT. ANY INFORMATION SHOWN IN ONE OF THEM IS AUTOMATICALLY PART OF THE OTHER AND PART OF THE CONTRACT...

3. AT THE REQUEST OF THE ARCHITECT, THE CONTRACTOR SHALL SUBMIT AS A SUPPLEMENTAL SHOP DRAWING, ANY ADDITIONAL INFORMATION THE ARCHITECT MIGHT NEED DURING CONSTRUCTION ADMINISTRATION...

4. WHERE A SPECIFIC DETAIL IS NOT SHOWN, THE CONSTRUCTION SHALL BE SIMILAR TO THAT INDICATED OR NOTED FOR SIMILAR CONDITIONS AND CASES OF CONSTRUCTION ON THIS PROJECT...

5. WHERE THE WORD "TYPICAL" IS USED IN A NOTE POINTING TO AN ITEM, IT SHALL MEAN THAT THERE ARE OTHER ITEMS OR CONDITIONS IN THE CONTRACT DOCUMENTS THAT ARE IDENTICAL OR SIMILAR TO THE ITEM OR CONDITION CALLED OUT.

6. ALL WORK SHALL CONFORM TO THE CBC 2001, TITLE 19 AND TITLE 24 PARTS 1 & 2 (ADMINISTRATION) CCR AND ALL APPLICABLE LAWS, RULES, REGULATIONS AND ORDINANCES OF GOVERNING AUTHORITIES...

7. EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.

8. THE GENERAL CONTRACTOR AND ALL TRADES AFFECTED THEREBY SHALL COMPLY WITH THE "REQUIREMENTS FOR THE PHYSICALLY HANDICAPPED" AS WELL AS THOSE REQUIREMENTS STATED IN THE 1990 AMERICANS WITH DISABILITIES ACT...

9. CHANGES OF TYPES OF FLOOR FINISHES SHALL OCCUR UNDER THRESHOLDS AT DOORS, AND WHERE THRESHOLDS DO NOT OCCUR, AS SHOWN ON DETAILS.

10. SURFACE FINISHES INDICATED OR NOTED SHALL BE CARRIED INTO ALCOVES, CLOSETS AND SIMILAR FEATURES WHERE SUCH OCCUR UNLESS OTHERWISE INDICATED OR NOTED.

11. WHEN AN ITEM IS SHOWN IN THE DRAWINGS BUT NOT REFERRED TO IN THE SPECIFICATIONS, IT IS STILL PART OF THE CONTRACTOR'S WORK. THE ARCHITECT, UPON REQUEST, WILL PROVIDE THE NECESSARY SPECIFICATIONS.

12. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER, USING ACCEPTED TRADE PRACTICES AND NEW MATERIALS FREE FROM ALL DEFECTS.

13. ALL WORK AND TROUBLE-FREE OPERATION OF EQUIPMENT SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY OWNER AND GOVERNING AUTHORITIES, UNLESS SPECIFICALLY NOTED OTHERWISE.

14. THE CONTRACTOR SHALL PROVIDE ADEQUATE BARRICADES AND PROTECTIVE DEVICES SEPARATING CONSTRUCTION AREAS. TEMPORARY EXIT PASSAGES SHALL BE PROVIDED AS REQUIRED.

15. THE CONTRACTOR SHALL PROVIDE AN APPROPRIATE NUMBER OF PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 4A60BC FOR PROTECTION DURING CONSTRUCTION.

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER COORDINATION OF ALL TRADES, INCLUDING NECESSARY DIMENSIONING, SLEEVING, MATERIAL PLACEMENT, AND OTHER PREPARATORY WORK FOR EACH TRADE IN THE ORDER IN WHICH THE PORTIONS OF THE WORK FOR EACH TRADE OCCURS...

17. MECHANICAL AND ELECTRICAL DRAWINGS ARE OFTEN DIAGRAMATIC IN NATURE AND THEREFORE SUPPLEMENTAL TO THE ARCHITECTURAL DRAWINGS. BEFORE INSTALLATION OF MECHANICAL OR ELECTRICAL CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE ARCHITECTURAL DRAWINGS...

18. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL COMPLY WITH ALL COLLEGE REGULATIONS REGARDING NOISE, SMOKE, FIRE AND SAFETY RULES AND SHALL KEEP THE WORK AREA AND SURROUNDING AREAS CLEAN AND FREE OF EXCESSIVE DEBRIS.

19. THE OWNER SHALL SELECT AN INDEPENDENT TESTING LABORATORY AND PAY THE COSTS OF ALL TESTS AND INSPECTIONS AS DESCRIBED IN THE SPECIFICATIONS.

20. THE OWNER SHALL EMPLOY A QUALIFIED INSPECTOR APPROVED BY DSA FOR CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.

21. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT, FOR REVIEW, INFORMATION ON EQUIPMENT AND MATERIALS TO BE USED IN THE PROJECT. INSTALLATION SHALL NOT COMMENCE UNTIL THE REVIEWED SUBMITTALS HAVE BEEN RETURNED TO THE CONTRACTOR...

22. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE OWNER BEFORE BEGINNING WORK IN ANY EXISTING AREA, OR BEFORE WORKING ON ANY EXISTING UTILITIES OR EQUIPMENT. HE SHALL INDICATE TO THE OWNER THE PARTICULAR AREA HE WILL BE WORKING IN...

23. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AS REQUIRED BY THE LOCAL AND STATE AUTHORITIES THAT ARE NOT THE RESPONSIBILITY OF THE OWNER.

24. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL PAVING, LANDSCAPE PLANTING & IRRIGATION, & DAMAGED TREES AFFECTED BY HIS ACCESS TO THE CONSTRUCTION AREA & LAY-DOWN SPACE.

25. AT THE COMPLETION OF ALL WORK, THE CONTRACTOR SHALL FURNISH THE OWNER WITH LEGIBLE COPIES OF ALL PERMITS, LETTERS OF APPROVALS AND DOCUMENTATION OF FINAL ACCEPTANCE BY ALL AGENCIES HAVING JURISDICTION...

26. ALL EXITWAYS AND EXIT SIGNS SHALL BE ILLUMINATED TO COMPLY WITH THE REQUIREMENTS OF SECTION 1012 & 1013 OF THE CALIFORNIA BUILDING CODE.

27. NOT USED.

28. NOT USED.

29. REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL NOTES AND REQUIREMENTS.

30. DIMENSIONS: DIMENSIONS SHALL HAVE PREFERENCE OVER SCALE. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD. FOR CONSTRUCTION PURPOSES, DIMENSIONS SHALL NOT BE SCALED FROM THE DRAWINGS...

31. PROVIDE ALL NECESSARY BLOCKING, BACKING AND FRAMING FOR LIGHT FIXTURES, ELECTRICAL UNITS, MECHANICAL EQUIPMENT, AND ALL OTHER ITEMS REQUIRING SAME.

32. NO PART OF THESE CONTRACT DOCUMENTS SHALL BE CONSTRUED AS REQUIRING OR PERMITTING ANY WORK CONTRARY TO THE REQUIREMENTS OF ANY CODE, REGULATION, OR ORDINANCE WHICH HAS JURISDICTION OVER THIS WORK.

33. THE EXACT SIZE OF ALL EQUIPMENT PADS WILL BE DETERMINED BY THE EQUIPMENT SUBMITTAL OF THE SUCCESSFUL BIDDER. IF EQUIPMENT SUBSTITUTIONS RESULT IN INCREASES TO THE PAD SIZES AND EQUIPMENT WEIGHTS DESCRIBED IN THESE DRAWINGS...

34. ALL INTERIOR FINISHES SHALL HAVE A FLAME SPREAD CLASSIFICATION PER TABLES 8A AND 8B OF THE CALIFORNIA BUILDING CODE.

35. NOT USED.

36. ALL LATH & PLASTERING TO COMPLY WITH CHAPTER 25A OF THE 2001 CALIF. BUILDING CODE AND TITLE 24 CCR. ALL LATH AND FASTENERS SHALL BE GALVANIZED.

37. ALL FLASHING TO BE GALVANIZED U.N.O., PRIMED ALL SIDES BEFORE INSTALLATION.

38. DOOR & WINDOW FRAMES TO BE PRIMED ALL SIDES BEFORE INSTALLATION.

39. NOT USED.

40. PROVIDE THERMAL INSULATION AT ROOF LEVEL AND IN WALLS WHERE INDICATED ON THE DRAWINGS, INCLUDING BELOW GRADE LOCATIONS. REFER TO CERTIFICATE OF COMPLIANCE FORM FOR R-VALUES OF INSULATION...

41. NOT USED.

42. ALL CEILING DIMENSIONS ARE TO BOTTOM OF TEES (SUSPENDED CEILINGS) OR BOTTOM OF ROUGH CEILING (DRYWALL).

43. NOT USED.

44. ALL SUSPENDED CEILINGS SHALL BE SUPPORTED BY HANGER WIRES AS REQUIRED BY CODE. SEE SHEET A9.3 FOR NOTES.

45. NOT USED.

46. FABRICATION AND INSTALLATION OF ACOUSTICAL CEILING PANELS SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SUBMITTALS HAVE BEEN REVIEWED AND ACCEPTED BY THE ARCHITECT.

47. AT TOILET ROOMS WHERE CERAMIC TILE IS SPECIFIED, INSTALL 5/8" W.P. DRYWALL, AS DESCRIBED IN THE SPECIFICATIONS.

48. APPLY NON-CONDUCTIVE PAINT TO ALL FERROUS SURFACES THAT SERVE AS BACKING TO ALUMINUM CONSTRUCTION MATERIALS.

49. DOORS SHALL BE LOCATED IN CENTER OF WALL WITHIN SPACE SERVED UNLESS DIMENSIONED DIFFERENTLY ON PLANS. WHERE DOORS ARE LOCATED NEXT TO A WALL, THERE SHALL BE A 3-1/2" CLEARANCE BETWEEN WALL FINISH SURFACE AND FACE OF DOOR...

50. ALL STEEL ITEMS, STEEL ASSEMBLIES, BOLTS, SCREWS, WASHERS AND NAILS EXPOSED OR PARTIALLY EXPOSED TO THE EXTERIOR SHALL BE GALVANIZED AFTER FABRICATION...

51. DETAILS MIGHT BE GROUPED UNDER GENERAL HEADINGS FOR CONVENIENCE ONLY. WHEN THEY OCCUR, DO NOT NECESSARILY REFLECT THE SCOPE OF WORK OF A PARTICULAR SUBCONTRACTOR...

52. FIRE RESISTIVE TESTS: THE FIRE-PROTECTION RATING OF ALL TYPES OF REQUIRED FIRE ASSEMBLIES SHALL BE DETERMINED IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN C.B.C. STANDARDS NUMBERS 7-2, 7-3, 7-4 AND 7-7.

53. RATED WALLS MAY HAVE OPENINGS FOR STEEL ELECTRICAL AND DATA OUTLET BOXES NOT EXCEEDING 16 SQ. INCHES IN AREA. PROVIDED THE AGGREGATE AREA OF SUCH OPENINGS IS NOT MORE THAN 100 SQ. INCHES FOR ANY 100 SQ. FEET OF WALL OR PARTITION AREA...

- 1. PROTECTED WITH MEMBRANE-PENETRATION FIRE STOPS SUITABLE FOR THE METHODS OF PENETRATION, OR
2. INSTALLED IN ACCORDANCE WITH THE INSTALLATION INSTRUCTIONS OF THEIR LISTING FOR SUCH USE.

54. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

55. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CHANGE ORDER APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY SECTION 4-330, PART 1, TITLE 24, CCR.

56. THE FIRE AUTHORITY HAVING JURISDICTION SHALL BE CONSULTED REGARDING ACCESS ROADS, GATES IN PERIMETER FENCES, LOCATION OF FIRE HYDRANTS, FIRE DEPARTMENT PUMPER CONNECTIONS, PORTABLE FIRE EXTINGUISHERS, AND FIRE PROTECTION DURING CONSTRUCTION.

ENVELOPE MANDATORY MEASURES

(TITLE 24, PART 6, CH. 1)

1. INSTALLED INSULATING MATERIAL SHALL BE CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL.

2. ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF SECTIONS 1712 AND 1713 OF THE CALIFORNIA BUILDING CODE.

3. ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING ENVELOPE THAT ARE OBSERVABLE SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED, OR OTHERWISE SEALED.

4. SITE CONSTRUCTED DOORS, WINDOWS, AND SKYLIGHTS SHALL BE CAULKED BETWEEN THE UNIT AND THE BUILDING, AND SHALL BE WEATHERSTRIPPED (EXCEPT FOR UNFRAMED GLASS DOORS AND FIRE DOORS).

5. MANUFACTURED DOORS AND WINDOWS INSTALLED SHALL HAVE AIR INFILTRATION RATES CERTIFIED BY THE MANUFACTURER PER 2-5317(B). MANUFACTURED FENESTRATION PRODUCTS MUST BE LABELED FOR U-VALUE ACCORDING TO NFRC PROCEDURES.

FIRE PROTECTION NOTES

1. SMOKE DAMPERS AND COMBINATION FIRE AND SMOKE DAMPERS SHALL BE INSTALLED AS REQUIRED BY THE GOVERNING CODES, AND IN LOCATIONS AS SHOWN ON THE MECHANICAL DRAWINGS...

2. FIRE EXTINGUISHERS SHALL BE INSTALLED IN THE LOCATIONS SHOWN ON THE FLOOR PLANS, AND ACCORDING TO THE DETAILS SHOWN IN THE DRAWINGS. THE TYPES REQUIRED ARE LISTED IN THE SPECIFICATIONS...

SIGNAGE REQUIREMENTS

1. FINISH AND CONTRAST CHARACTERS, SYMBOLS AND THEIR BACKGROUNDS SHALL HAVE A NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND...

2. PROPORTIONS: CHARACTERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH TO HEIGHT RATIO OF BETWEEN 1:5 AND 1:10.

3. CHARACTER HEIGHT, CHARACTERS AND NUMBERS ON SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ. THE MINIMUM HEIGHT IS MEASURED USING AN UPPER CASE X. LOWER CASE CHARACTERS ARE PERMITTED...

4. RAISED CHARACTERS AND PICTORAL SYMBOL SIGNS. WHEN RAISED CHARACTERS ARE REQUIRED OR WHEN PICTORAL SYMBOLS (PICTOGRAMS) ARE USED ON SUCH SIGNS, THEY SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32 INCH (.0794MM) MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE COMPLYING WITH 1117B.5.6.

CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8 INCH (15.9MM) AND A MAXIMUM OF 2 INCHES (51MM) HIGH.

PICTORAL SYMBOL SIGNS (PICTOGRAMS). PICTORAL SYMBOL SIGNS (PICTOGRAMS) SHALL BE ACCOMPANIED BY THE VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE OUTSIDE DIMENSION OF THE PICTOGRAM FIELD SHALL BE A MINIMUM OF 6 INCHES (152MM) IN HEIGHT.

5. BRAILLE: CALIFORNIA CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THE STANDARDS. DOTS SHALL BE 1/10 INCH (2.54MM) ON CENTERS IN EACH CELL WITH 2/10 INCH (5.08MM) SPACE BETWEEN CELLS...

WALL NOTES

- 1. FOR CABINET ANCHORAGE, SEE A9.7
2. STUDS SUPPORTING DOOR AND WINDOW JAMBS SHALL BE 16 GAUGE STEEL STUDS, DOUBLED UP. EXTEND BOTH STUDS TO STRUCTURE ABOVE.
3. WHERE HEIGHT OF STUDS EXCEEDS 14 FEET, STEEL STUDS SHALL BE 18 GAUGE.
4. ALL FIRE RATED CONCRETE WALLS AND SLABS SHALL COMPLY WITH THE REQUIREMENTS OF TABLE 7-C, ITEM 1-1.1, & TABLE 7-A, ITEM 7-1.2 (CBC).
5. FOR PROPERTIES OF METAL STUDS SEE BELOW:

Section Properties

Section Properties Table Notes

- 1. The centerline bend radius is the greater of 2 times the design thickness or 3d/2".
2. Web depth for track sections is equal to the nominal height plus 2 times the design thickness plus the bend radius.
3. Flanges on non-structural track sections are ignored.
4. Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
5. Tabulated gross properties are based on the full-unreduced cross section of the studs, away from punchouts.
6. For deflection calculations, use the effective moment of inertia.
7. For those steels that have both 33 and 50 ksi listings, if the design is based upon 50 ksi, the 50 ksi steel needs to be specified. (i.e., 3625-137-54 (50 ksi))

Non-Structural (S) Stud Section Properties

Table with columns: Design Thickness, Gross Area, Effective Sx, Effective Sy, Torsional Constant. Rows include various steel stud specifications like 3625-137-54, 3625-137-54, etc.

\* Web-height to thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads

CONSULTANT

REVISIONS

NO. DATE

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NO. DATE

NO. DATE

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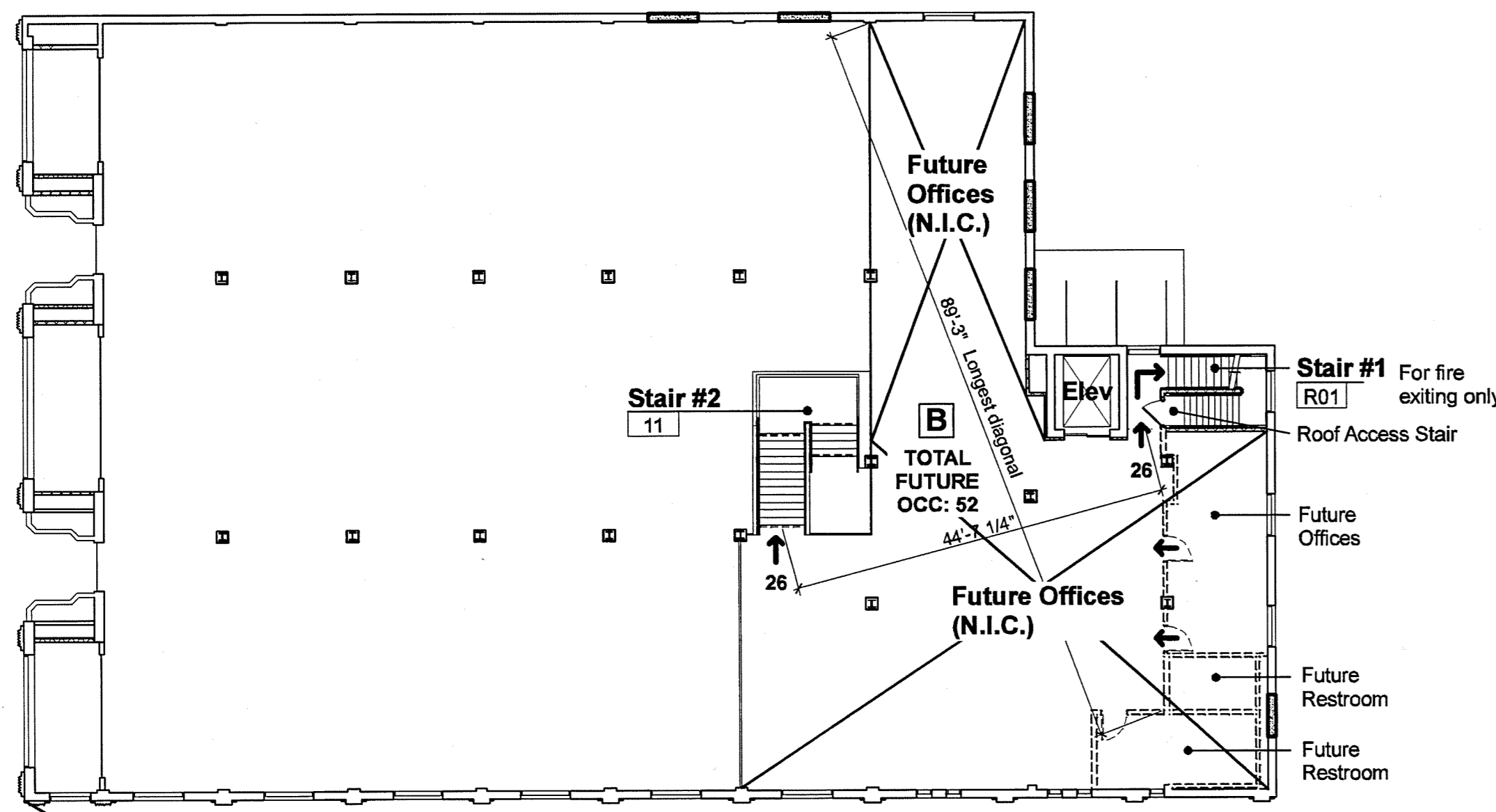
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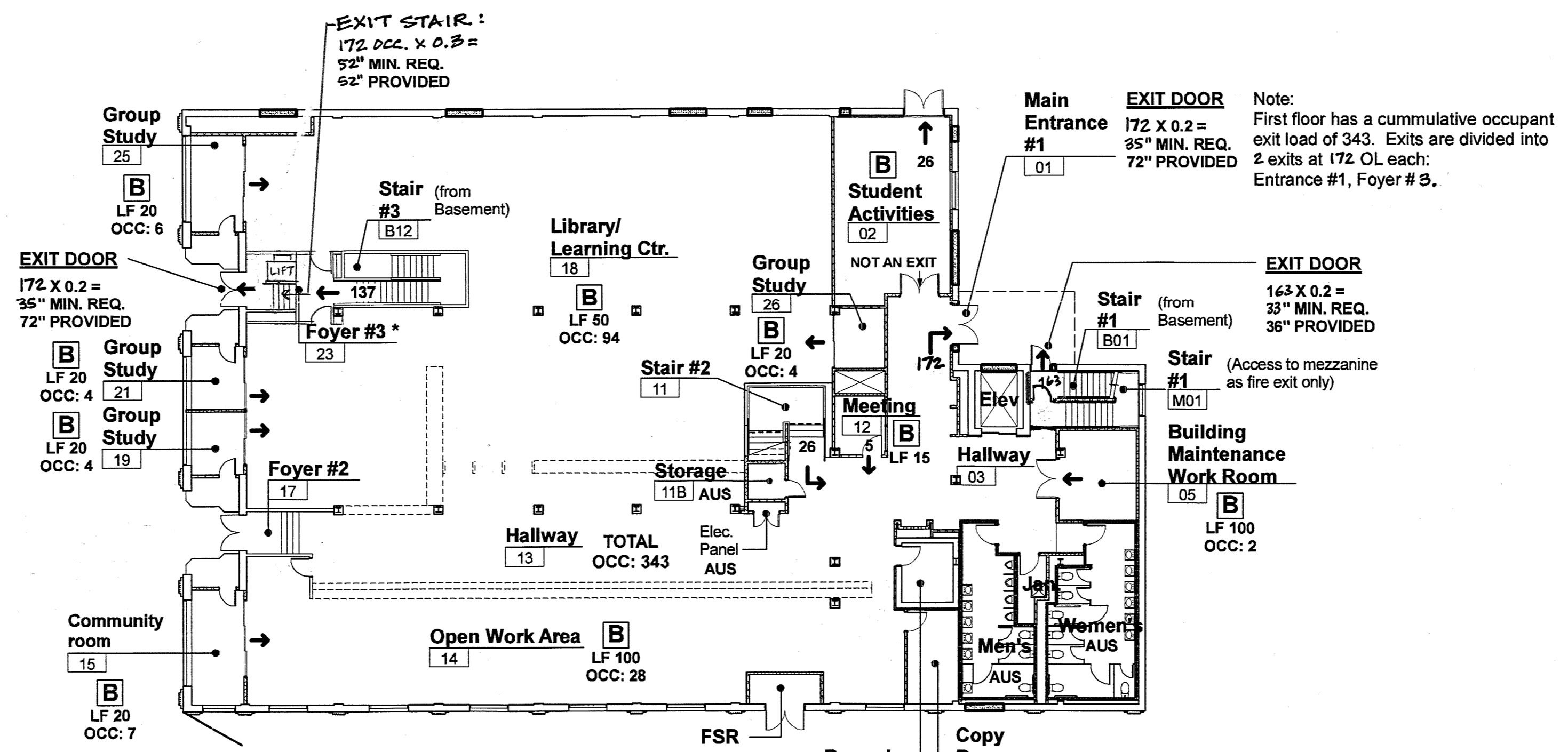
SPENCER / HOSKINS associates Architecture & Planning. Logo with circular seal and contact information: 955 Overland Court, Suite 100, San Dimas, California 91776-1718.

GENERAL NOTES. PALO VERDE COLLEGE, NEEDLES CENTER. PALO VERDE COMMUNITY COLLEGE DISTRICT. 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363. SHEET NO. T1.2. DATE 07-06-07. JOB NO. 2007-SH95-00. DRAWN YCL. CHECKED JVT.

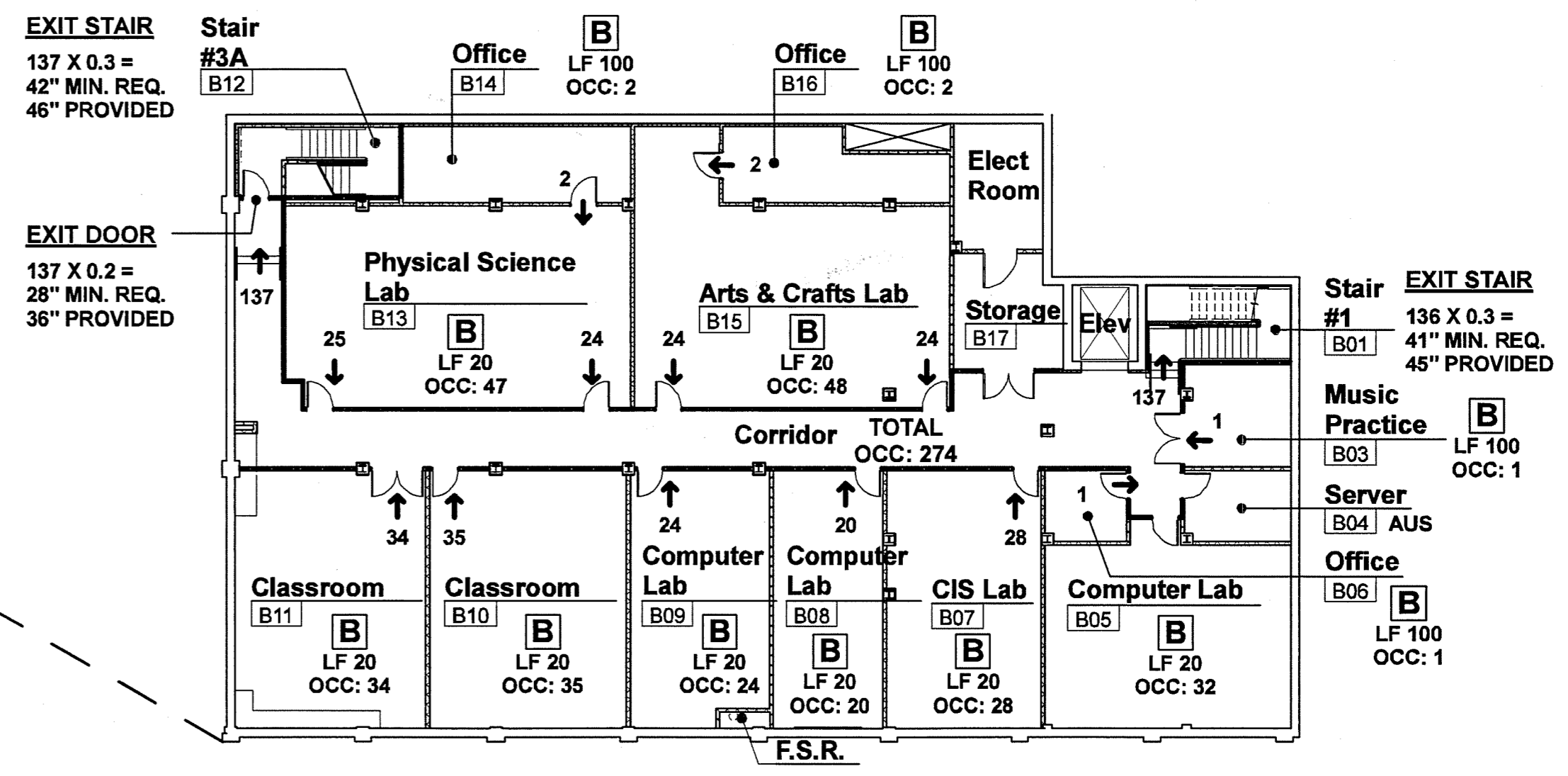
IDENTIFICATION STAMP. DIV. OF THE STATE ARCHITECT. OFFICE OF PERMITTING & FEES. 110562. APR 7 2011.



**MEZZANINE - EXIT PLAN**



**FIRST FLOOR - EXIT PLAN**



**BASEMENT - EXIT PLAN**

**LEGEND:**

OCCUPANCY GROUP: [B]

LOAD FACTOR: LF 100

TOTAL OCCUPANCY: OCC: 2

AUX. USE SPACE: AUS

EXIT: ←

CONSULTANT

NO.	DATE	REVISIONS

**SPENCER / HOSKINS associates**  
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**CLAYPOOL BUILDING RECONSTRUCTION**  
PALO VERDE COLLEGE, NEEDLES CENTER  
PALO VERDE COMMUNITY COLLEGE DISTRICT  
725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363

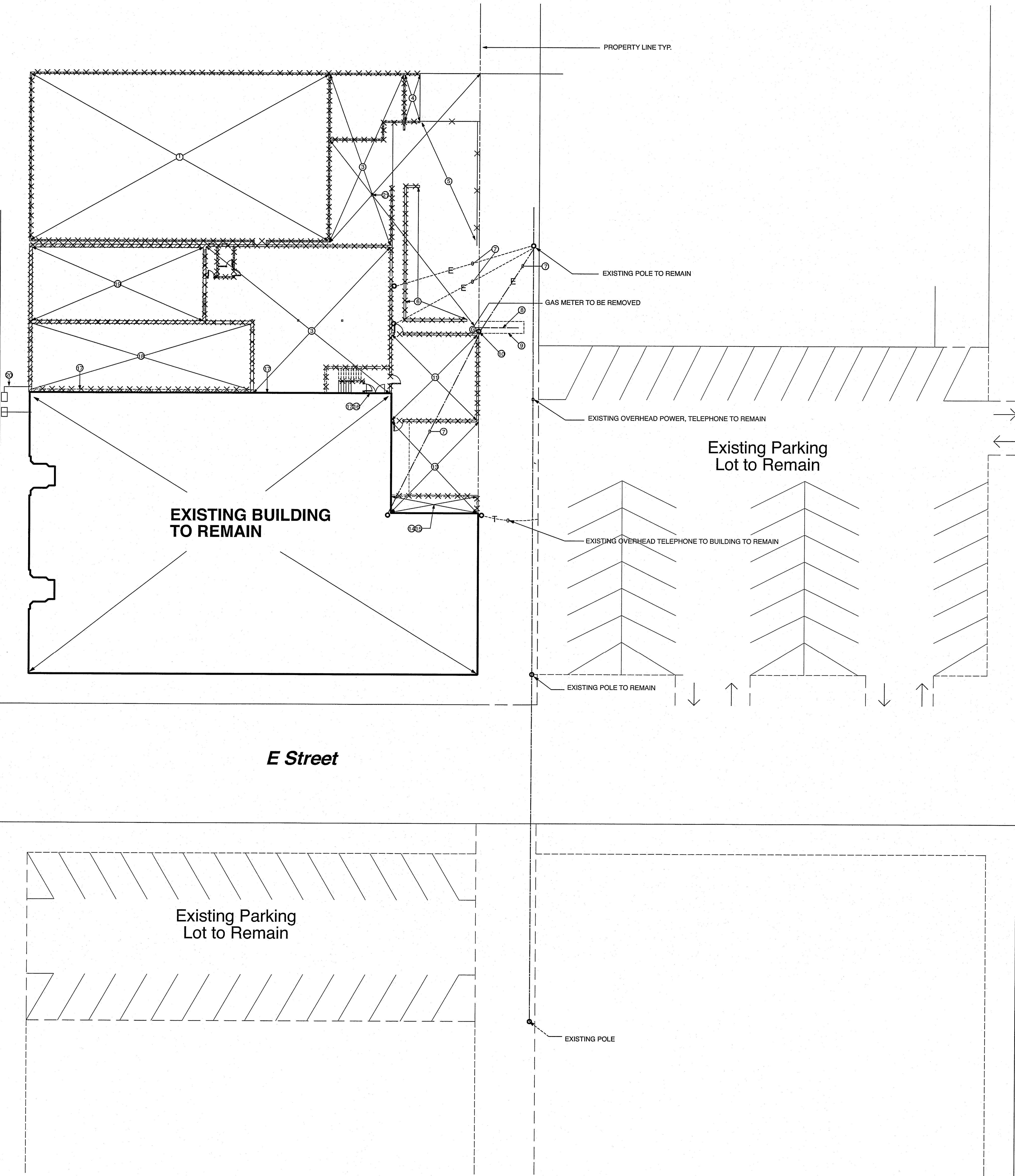
DATE: 07-06-07  
JOB NO.: 2007-SH95-00  
DRAWN:  
CHECKER:  
DATE: APR 07 2011

EXITING PLANS  
JVT

SHEET NO. **T1.3**

110562  
APR 07 2011

Broadway (Historical Highway 66)



EXISTING BUILDING  
TO REMAIN

Existing Parking  
Lot to Remain

E Street

Third Street

Existing Parking  
Lot to Remain

EXISTING POLE

**DEMOLITION LEGEND:**

	EXISTING WALLS & DOORS TO BE REMOVED
	EXISTING WALLS TO REMAIN
I	EXISTING STRUCTURE TO REMAIN

**GENERAL NOTES**

DESCRIPTION	REMARKS
1 PROVIDE PERMANENT REPAIR TO ALL DISTURBED ASPHALT PAVING	

**DEMOLITION NOTES**

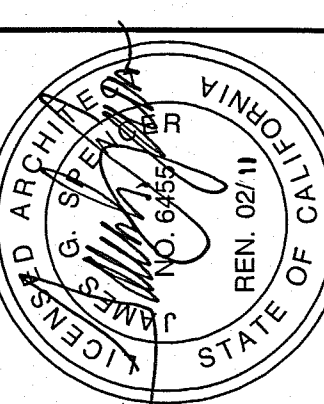
DESCRIPTION	REMARKS
1 REMOVE EXISTING ONE-STORY METAL BUILDING IN ITS ENTIRETY INCLUDING SLAB, FOOTINGS, STOREFRONT, ROOF & ALL INTERIOR FINISHES.	
2 NOT USED	
3 REMOVE EXISTING ONE-STORY METAL SHED STRUCTURE INCLUDING SUPPORTING SLAB/FOOTINGS. TERMINATE & MAKE SAFE ALL UTILITIES SERVING BLDG.	
4 REMOVE CONCRETE LOADING DOCK & FOOTING	
5 REMOVE EXISTING METAL FENCING & CONCRETE FOOTINGS	
6 REMOVE EXISTING LOW CONCRETE WALL & FOOTING	
7 REMOVE OVERHEAD ELECTRICAL SERVICE	
8 CAP OFF & REMOVE EXISTING GAS METER. TERMINATE GAS CO. SERVICE @ CONNECTION TO UNDERGROUND MAIN LINE	
9 PROVIDE PERMANENT REPAIR TO REMOVED AC PAVING.	
10 REMOVE EXISTING WOOD POWER POLE	
11 REMOVE EXISTING 2-STORY BLOCK BLDG. IN ITS ENTIRETY.	
12 NOT USED	
13 REMOVE EXISTING CONCRETE LOADING DOCK, PAVING & UNDERGROUND DRAIN.	
14 REMOVE EXISTING ONE-STORY BLOCK STRUCTURE, FOOTINGS. PROTECT EXISTING CONCRETE STRUCTURE THAT REMAINS.	
15 REMOVE ALL ROOF MOUNTED EQUIPMENT & DISPOSE OFF SITE.	
16 REMOVE EXISTING STAIR. PROTECT EXISTING CONCRETE STRUCTURE THAT REMAINS.	
17 INSTALL TEMPORARY PLYWOOD BARRICADES @ EXISTING OPENINGS @ 1ST AND 2ND FLOOR LEVELS	
18 REMOVE EXISTING ONE-STORY BRICK STRUCTURE IN ITS ENTIRETY, INCLUDING SLAB, FOOTINGS, STOREFRONT, ROOF & ALL INTERIOR FINISHES. PROTECT EXISTING CONCRETE STRUCTURE @ WEST.	
19 REMOVE EXISTING ONE-STORY BRICK STRUCTURE IN ITS ENTIRETY, INCLUDING SLAB, FOOTINGS, STOREFRONT, ROOF & ALL INTERIOR FINISHES.	
20 CAP OFF & MAKE SECURE EXISTING WATER SERVICE TO REMOVED BUILDINGS.	
21 REMOVE EXISTING CONCRETE PAVING	

CONSULTANT

NO	DATE	REVISIONS

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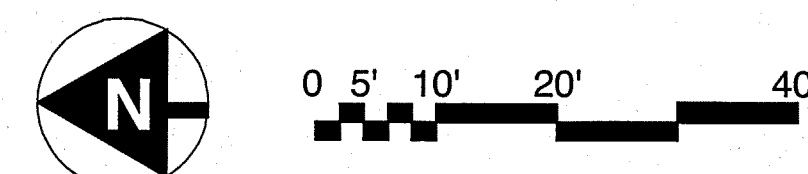
**NOTES:**  
 1. DRAWINGS DO NOT SHOW REMOVAL OF ANY HAZARDOUS MATERIALS.

**CLAYPOOL BUILDING RECONSTRUCTION**  
**PALO VERDE COLLEGE, NEEDLES CENTER**  
 PALO VERDE COMMUNITY COLLEGE DISTRICT  
 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363

**SITE DEMOLITION PLAN**

DATE	07-06-07	DRAWN	LM	CHECKED	JVT
JOB NO.	2007-SH95-00				

### SITE DEMOLITION



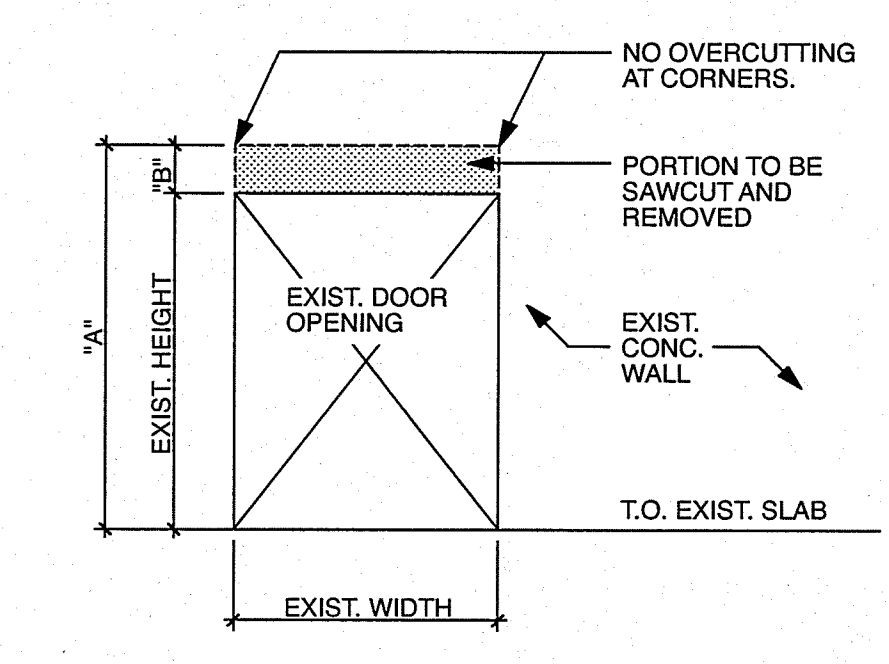
SCALE: 1/16" = 1'0"

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 DIV. OF THE STATE ARCHITECT  
 DATE OF ISSUE: APR 19 2007  
 110562  
 AR. J.S.S. J.S.S. JR.  
 DATE: APR 17 2011

# D1.1

SHEET OF

DOOR LOCATION	"A" TOP OF OPENING ABOVE (B) SLAB	"B" HEIGHT OF CONCRETE TO BE REMOVED (FIELD VERIFY)
BASEMENT ELEVATOR	8'-4"	16"
FIRST FLOOR RECORD VAULT	9'-6"	19"
MEZZANINE ELEVATOR	7'-8"	8"



**NOTE:**  
 1. USE NEAT SAWCUTS. OVERCUTTING IS NOT PERMITTED. CONCRETE AT CORNERS SHALL BE REMOVED BY HAND CHIPPING ONLY.  
 2. ALL SAWCUTTING SHALL BE CONTINUOUSLY INSPECTED BY THE I.C.A.

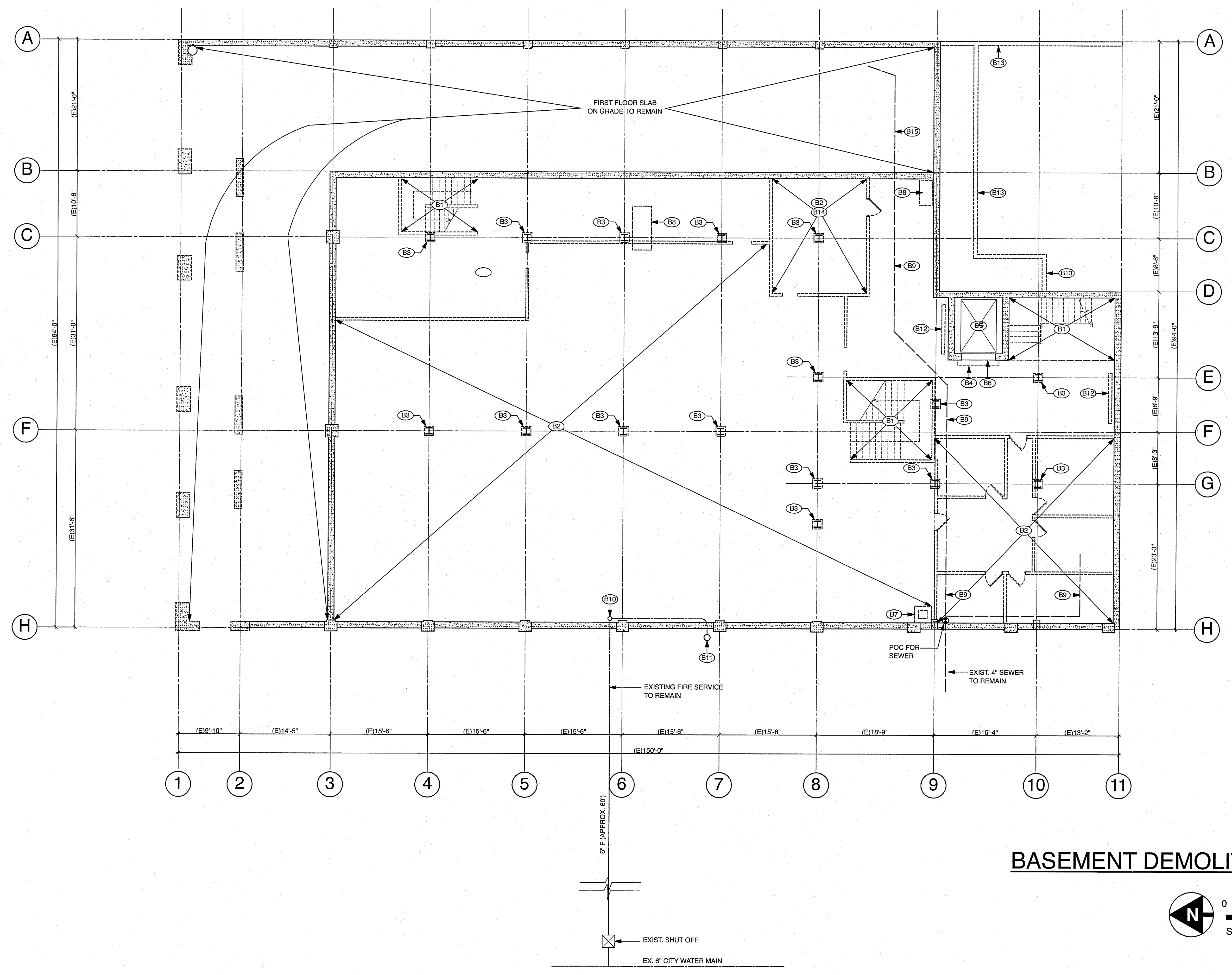
SAWCUT AT EXIST. CONC. WALL DOOR OPENING 1  
 0 5' 10' 15' 20'  
 SCALE: 1/8"=1'-0"

**BASEMENT DEMOLITION LEGEND:**

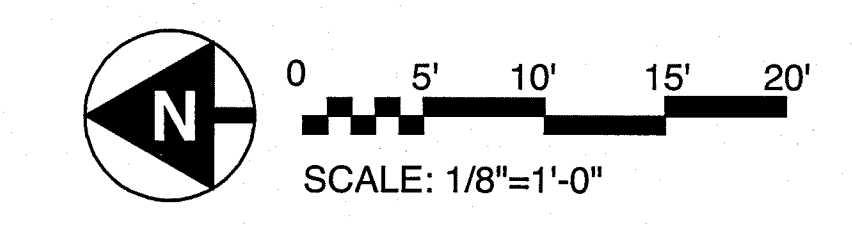
- WALLS & DOORS TO BE REMOVED, TYP. SEE GENERAL NOTE #2
- CONCRETE WALLS TO REMAIN, TYP.
- STEEL COLUMN TO REMAIN, TYP.

**BASEMENT DEMOLITION GENERAL NOTES:**

NO	DESCRIPTION	NOTE
1	DRAWINGS DO NOT SHOW REMOVAL OF ANY HAZARDOUS MATERIALS, TYP.	
2	REMOVE ALL WALLS SHOWN DOTTED PER DEMOLITION LEGEND, TYP. REMOVE NON BEARING WALLS, ALL ATTACHED FINISHES, DOORS, AND ALL CONTAINED WIRING CONDUIT.	
3	CAP OFF ALL WATER, GAS, SEWER, STORM DRAIN, TELEPHONE AND DATA AT NEAREST SOURCE WHERE APPROPRIATE. TERMINATE AT FUNCTIONING VALVE. REMOVE ALL REMAINING LINES BEYOND TERMINATION POINT, TYP.	
4	6" FIRE SERVICE TO BUILDING SHALL BE TERMINATED AND CAPPED AT MAIN SHUT OFF VALVE LOCATED AT BASEMENT. REMOVE ALL REMAINING FIRE SPRINKLER SYSTEM AT ALL FLOORS, TYP. HIGH COFFERED PLASTER CEILING OVER MAIN FLOOR AND MEZZANINE SHALL BE PROTECTED IN PLACE DURING FIRE SPRINKLER REMOVAL.	
5	REMOVE ALL MECHANICAL EQUIPMENT, PIPING, DUCTWORK, AND CONTROLS, TYP.	
6	REMOVE ALL ELECTRICAL PANELS AND SWITCH GEAR, AND MAKE SAFE, TYP.	
7	REMOVE ALL SURFACE MOUNTED CONDUIT AND CONDUCTORS, AND MAKE SAFE, TYP.	
8	REMOVE TRACTION ELEVATOR AND ALL RELATED ITEMS IN THEIR ENTIRETY. ALL WORK SHALL BE DONE IN A SAFE MANNER CONFORMING TO ALL OSHA REQUIREMENTS.	
9	REMOVE ALL CABINETS, SHELVES, RACKS, SUPPORTING BRACKETS, AND BACKING, TYP.	
10	REMOVE ALL VINYL COMPOSITION FLOOR TILE AND CARPET, TYP.	
11	ALL TRUSS STRUCTURE IN BASEMENT SHALL REMAIN UNLESS NOTED OTHERWISE TO REMOVE, TYP.	
12	REMOVE ALL SUSPENDED CEILINGS, SUPPORT WIRES, AND ATTACHED LIGHT FIXTURES AND CONDUIT IN BASEMENT, TYP.	



**BASEMENT DEMOLITION PLAN**



**BASEMENT DEMOLITION KEY NOTES:**

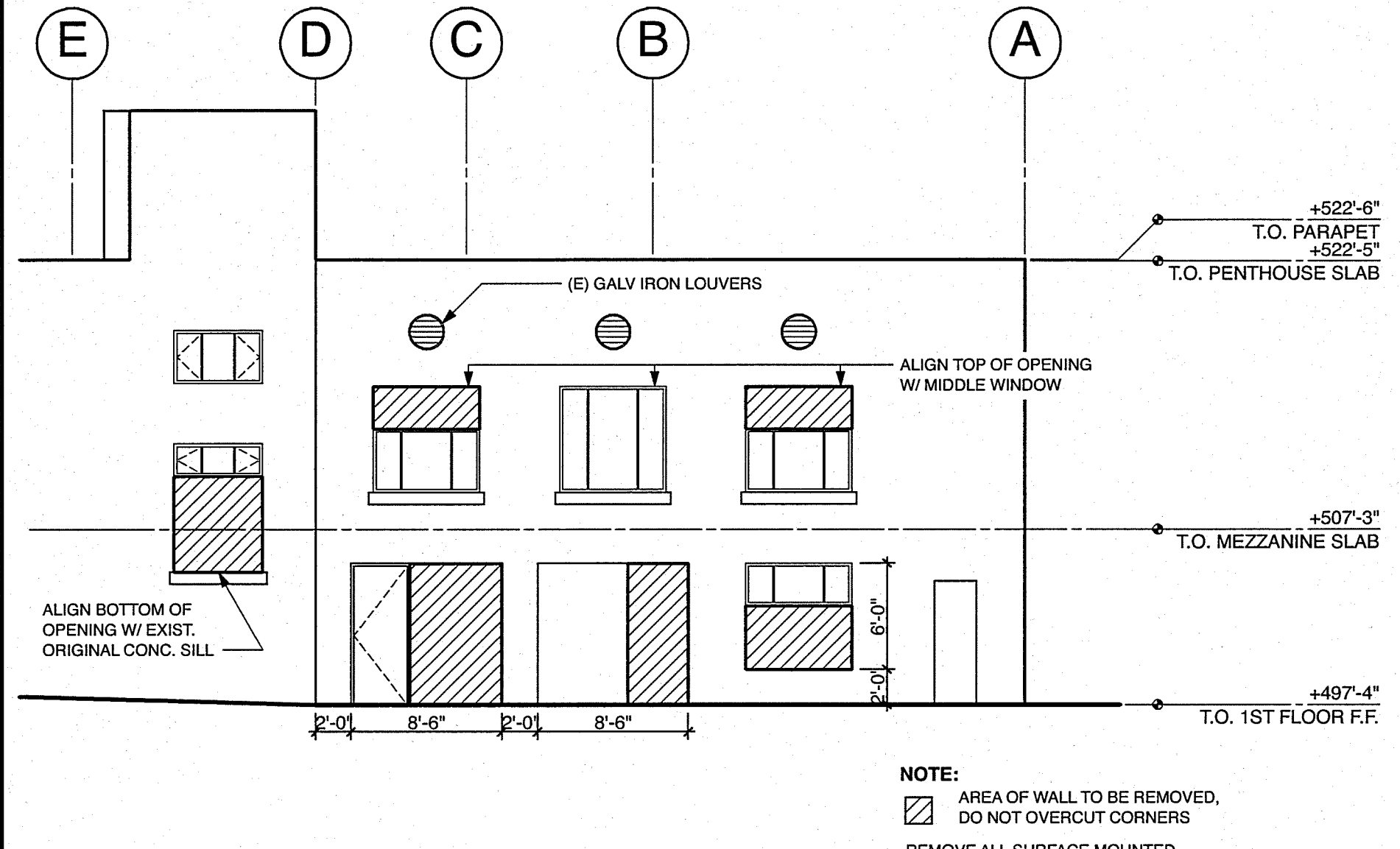
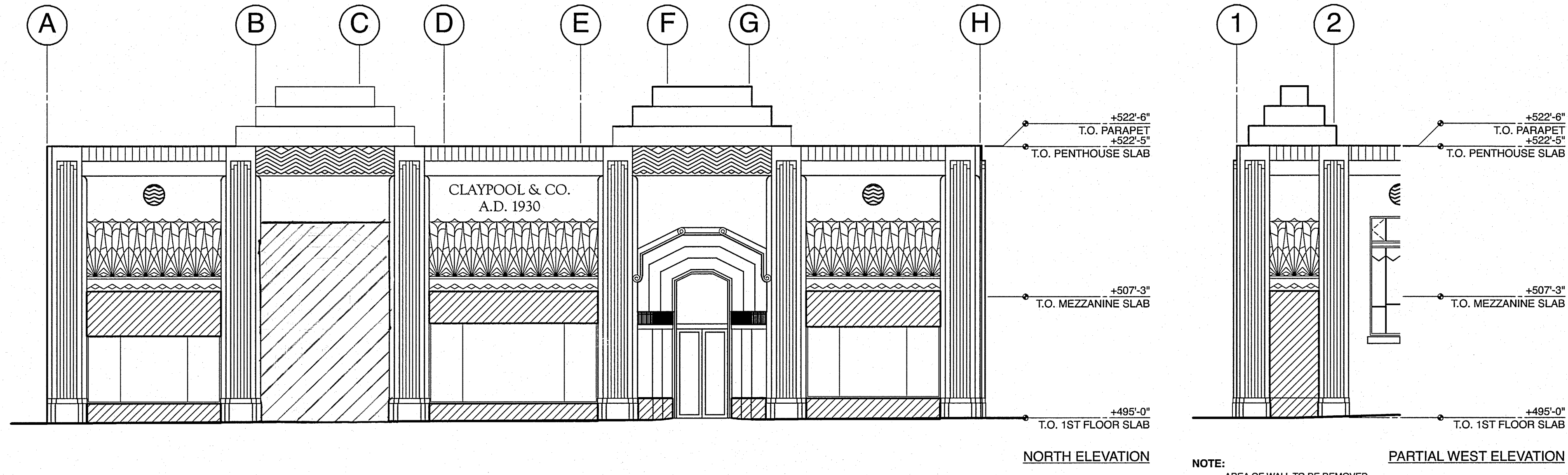
NO	DESCRIPTION	PHOTO REF.
B1	REMOVE STAIR, HANDRAILS, LANDING AND ALL ATTACHED FINISHES IN THEIR ENTIRETY.	3,16/D3.1
B2	REMOVE ALL SUSPENDED CEILING AND SUPPORT, TYP.	1,2,3,4,5/D3.1
B3	REMOVE WOOD PANEL COLUMN ENCLOSURE, FLOOR TO CEILING.	2,3/D3.4
B4	REMOVE ROLL-DOWN METAL FIRE DOOR AND FRAME.	6/D3.4
B5	REMOVE ELEVATOR, GUIDE RAIL, AND ALL RELATED ITEMS IN THEIR ENTIRETY. SEE GENERAL NOTE #8.	6,7/D3.4
B6	SAWCUT AND REMOVE CONCRETE HEADER AT ELEVATOR DOOR OPENING PER 1/D2.1. FIELD VERIFY WITH ELEVATOR MFR.	6/D3.4
B7	REMOVE CONCRETE/BRICK CHIMNEY.	5/D3.4
B8	REMOVE ALL MECHANICAL EQUIPMENT, PIPING, DUCTWORK, AND CONTROLS, TYP.	11,12,13/D3.4
B9	REMOVE ALL PLUMBING PIPES SUSPENDED FROM FLOOR STRUCTURE ABOVE. CAP AT POC (GRID H BETWEEN 9 & 10) FOR NEW CONNECTION PER PLUMBING DRAWINGS.	15/D3.4
B10	SHUT OFF VALVE FOR 6" FIRE LINE TO REMAIN. PROTECT IN PLACE. SEE GENERAL NOTE #4.	14/D3.4
B11	FIRE DEPARTMENT CONNECTION ABOVE GRADE TO REMAIN. PROTECT IN PLACE.	1/D3.1
B12	REMOVE ALL ELECTRICAL PANELS AND SWITCHGEAR, TYP.	10,11/D3.4
B13	REMOVE LOADING DOCK AND ITS FOOTING, SEE SHT D1.1.	4/D3.1
B14	REMOVE BRICK FLOORING AND ALL MISC. WOOD FRAMING.	8/D3.4
B15	ABANDON UNDER GROUND PLUMBING PIPE BELOW FIRST FLOOR SLAB IN PLACE.	

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**CLAYPOOL BUILDING RECONSTRUCTION**  
**PALO VERDE COLLEGE, NEEDLES CENTER**  
 PALO VERDE COMMUNITY COLLEGE DISTRICT  
 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363  
**DEMOLITION PLAN - BASEMENT**

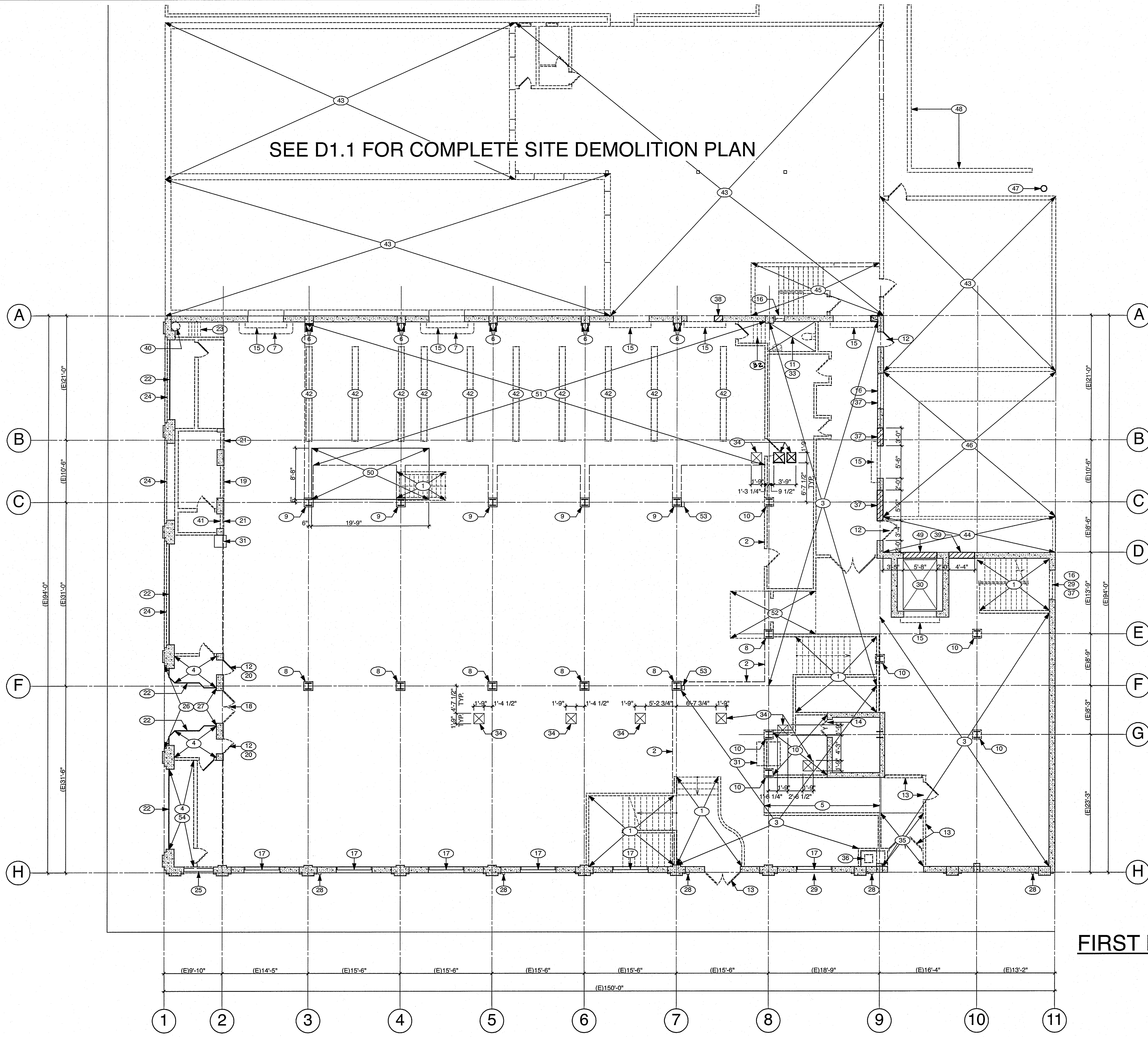
DATE: 07-06-07  
 JOB NO.: 2007-SH95-00  
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 CHECKED: JVT  
 SHEET NO.: D2.1  
 SHEET OF: 110562  
 DATE: APR 07 2011



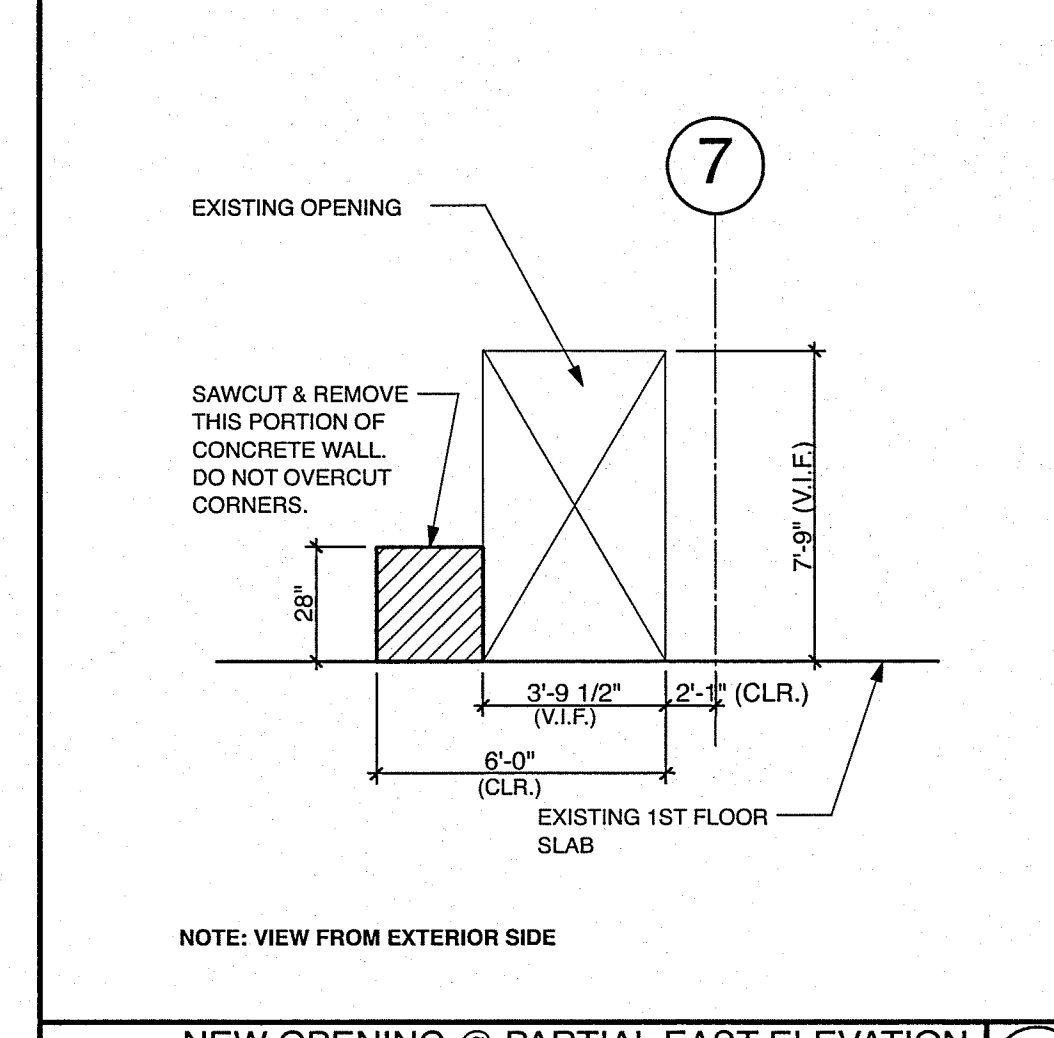


AREA OF WALL TO BE REMOVED @ NORTH & PARTIAL WEST ELEVATIONS  
SCALE: 1/8"=1'-0" 2

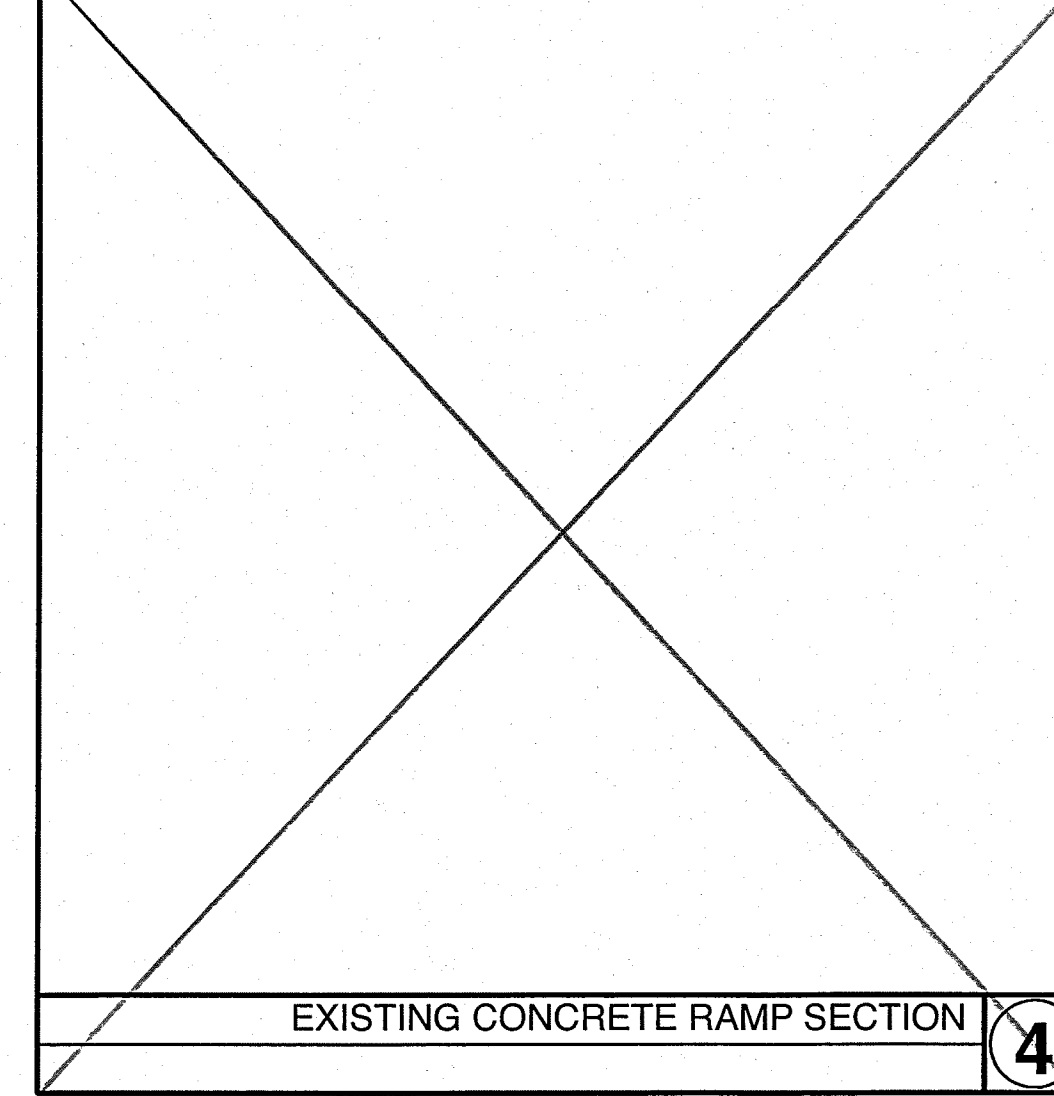
AREA OF WALL TO BE REMOVED @ PARTIAL SOUTH ELEVATION  
SCALE: 1/8"=1'-0" 1



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



NEW OPENING @ PARTIAL EAST ELEVATION  
SCALE: 1/8"=1'-0" 3



EXISTING CONCRETE RAMP SECTION  
SCALE: 1/8"=1'-0" 4

**FIRST FLOOR DEMOLITION LEGEND:**

- WALLS & DOORS TO BE REMOVED, TYP. SEE GENERAL NOTE #2.
- PORTION OF CONCRETE WALL TO BE REMOVED, TYP. SEE KEY NOTE #s 37, 38, AND 49.
- CONCRETE WALLS TO REMAIN, TYP.
- STEEL COLUMN TO REMAIN, TYP.

**FIRST FLOOR DEMOLITION GENERAL NOTES:**

NO	DESCRIPTION	NOTE
1	DRAWINGS DO NOT SHOW REMOVAL OF ANY HAZARDOUS MATERIALS, TYP.	
2	REMOVE ALL WALLS SHOWN DOTTED PER DEMOLITION LEGEND, TYP. REMOVE NON BEARING WALLS, ALL ATTACHED FINISHES, DOORS, AND ALL CONTAINED WIRING CONDUIT.	
3	CAP OFF ALL WATER, GAS, SEWER, STORM DRAIN, TELEPHONE AND DATA AT NEAREST SOURCE. WHERE APPROPRIATE, TERMINATE AT FUNCTIONING VALVE. REMOVE ALL REMAINING LINES BEYOND TERMINATION POINT, TYP.	
4	8" FIRE SERVICE TO BUILDING SHALL BE TERMINATED AND CAPPED AT MAIN SHUT OFF VALVE LOCATED AT BASEMENT. REMOVE ALL REMAINING FIRE SPRINKLER SYSTEM AT ALL FLOORS, TYP. HIGH COFFERED PLASTER CEILING OVER MAIN FLOOR AND MEZZANINE SHALL BE PROTECTED IN PLACE DURING FIRE SPRINKLER REMOVAL.	
5	REMOVE ALL MECHANICAL EQUIPMENT, PIPING, DUCTWORK, AND CONTROLS, TYP.	
6	REMOVE ALL ELECTRICAL PANELS AND SWITCH GEAR, AND MAKE SAFE, TYP.	
7	REMOVE ALL SURFACE MOUNTED CONDUIT AND CONDUCTORS, AND MAKE SAFE, TYP.	
8	REMOVE TRACTION ELEVATOR AND ALL RELATED ITEMS IN THEIR ENTIRETY. ALL WORK SHALL BE DONE IN A SAFE MANNER CONFORMING TO ALL OSHA REQUIREMENTS.	
9	REMOVE ALL CABINETS, SHELVES, RACKS, SUPPORTING BRACKETS, AND BACKING, TYP.	
10	REMOVE ALL VINYL COMPOSITION FLOOR TILE AND CARPET, TYP.	
11	REMOVE ALL MECHANICAL AND PLUMBING PIPING THAT ARE SURFACE MOUNTED ON EXTERIOR AND ROOF, TYP.	
12	HIGH COFFERED PLASTER CEILING SHALL REMAIN. PROTECT IN PLACE DURING LIGHTING AND FIRE SPRINKLER PIPE REMOVAL.	
13	REMOVE ALL PLASTER CEILING AND ITS SUPPORT UNDER MEZZANINE, TYP.	

**FIRST FLOOR DEMOLITION KEY NOTES:**

NO	DESCRIPTION	PHOTO REF.
1	REMOVE STAIR, HANDRAILS, LANDING AND ALL ATTACHED FINISHES IN THEIR ENTIRETY.	7,8,03.3
2	REMOVE PLASTER FASCIA ALONG EDGE OF MEZZ. ABOVE, TYP.	10,03.3
3	REMOVE ALL PLASTER CEILING AND SUPPORT UNDER MEZZANINE, TYP.	8,10,12,03.3
4	REMOVE BUILT-UP WOOD FLOOR AND SUPPORT FRAMING ABOVE CONCRETE SLAB.	
5	REMOVE WOOD RAMP AND FRAME.	11,03.3
6	REMOVE EXPOSED WOOD SUPPORT FRAMING FOR WOOD MEZZANINE ABOVE.	14,15,03.3
7	REMOVE METAL DECORATIVE DEVICE ABOVE DOOR.	14,03.3
8	REMOVE WOOD TRIM (APPROX. @-9"), ALL SURFACE MOUNTED WOOD PANEL FROM COLUMN. PRESERVE PLASTER FINISH.	9,03.3
9	REMOVE ALL WOOD SUPPORT FRAMING FOR MEZZANINE STRUCTURE (APPROX. @-9") AND ALL SURFACE MOUNTED WOOD PANELS FROM COLUMN. PRESERVE PLASTER FINISH.	15,03.3
10	REMOVE COLUMN ENCLOSURE, FLOOR TO CEILING.	
11	REMOVE TOILET, SINK, PARTITION, PLUMBING PIPES, AND CERAMIC TILE FLOOR.	
12	REMOVE DOOR AND FRAME.	
13	REMOVE STOREFRONT DOOR, WINDOW, AND FRAME.	12,03.3
14	REMOVE METAL VAULT DOOR AND FRAME. SAWCUT AND REMOVE CONCRETE HEADER PER 1,02.1.	13,03.3
15	REMOVE ROLL-DOWN METAL FIRE DOOR AND FRAME.	14,03.3
16	REMOVE WINDOW AND FRAME.	4,03.1
17	REMOVE PLYWOOD/PLASTER FURRING TO EXPOSE EXISTING WINDOW, PROTECT IN PLACE.	6,03.3
18	REMOVE STOREFRONT DOOR, WINDOW, FRAME, AND WALL ABOVE TO MATCH NEW OPENING PER 5,05.2.	9,03.1, 1,03.3
19	REMOVE PLASTER WALL TO MATCH NEW OPENING PER 5,05.2.	1,03.3
20	REMOVE WALL AND SLAB BELOW DOOR.	1,03.3
21	REMOVE STOREFRONT WINDOW, FRAME, AND WALL ABOVE AND BELOW (INCLUDING TILE FINISH). SEE 2,02.2.	9,10,03.1
22	REMOVE WOOD STAIRS.	3,03.1
23	REMOVE PLYWOOD PROTECTION BOARD AND FRAMING.	10,03.1
24	REMOVE PORTION OF WALL PER 2,02.2.	9,10,03.1
25	PROTECT EXISTING TILE FLOOR IN PLACE.	9,03.1
26	REMOVE EXTERIOR METAL FRAMING ABOVE ENTRY ALCOVE.	9,03.1
27	REMOVE DOWNSPOUT AND CONNECTING DRAIN PIPE BELOW. DRAIN PIPE SHALL BE CUT AT FINISH GRADE.	1,3,03.1
28	REMOVE EXTERIOR METAL GRILL.	1,4,03.1
29	REMOVE ELEVATOR, GUIDE RAIL, AND ALL RELATED ITEMS IN THEIR ENTIRETY. SEE GENERAL NOTE #8.	
30	REMOVE FLOOR SAFE FLUSH TO FLOOR.	
31	SAW CUT AND REMOVE CONCRETE STAIRS TO PROVIDE LEVEL AND SMOOTH FLOOR SURFACE.	16,03.3
32	SAW CUT AND REMOVE RAISED CONCRETE FLOOR (APPROX. 28" HIGH) TO MATCH LOWER EXISTING FLOOR ELEVATION (+495'-0"). PROVIDE LEVEL AND SMOOTH FLOOR SURFACE. SEE A2.2 FOR EDGE OF LOWER CONCRETE FLOOR SLAB.	16,03.3
33	SAW CUT AND REMOVE CONCRETE FLOOR SLAB FOR MECH. DUCT PENETRATION. VERIFY SIZE AND LOCATION WITH MECH. DO NOT OVERCUT CORNERS AND DO NOT DAMAGE EXISTING TRUSS BELOW. ADJUST LOC. OF OPENING TO MISS TRUSS.	
34	REMOVE CONCRETE RAMP AND LEAVE CONCRETE SLAB BELOW.	
35	REMOVE CONCRETE/BRICK CHIMNEY.	
36	SAW CUT AND REMOVE PORTION OF WALL PER 1,02.2.	4,03.3
37	SAW CUT AND REMOVE PORTION OF WALL PER 3,02.2.	
38	SAW CUT AND REMOVE PORTION OF WALL, 4'-4" WIDE BY 8'-2" HIGH.	
39	REMOVE ALL MECHANICAL EQUIPMENT, PIPING, DUCTWORK, AND CONTROLS, TYP.	
40	REMOVE ALL ELECTRICAL PANELS AND SWITCHGEAR, TYP.	
41	REMOVE ALL SURFACE MOUNTED FLUORESCENT LIGHT FIXTURES UNDER MEZZANINE, TYP.	14,15,03.3
42	REMOVE EXISTING BUILDING INCLUDING WALLS, ROOF, FOOTINGS AND UNDERGROUND PIPINGS. SEE SHEET D1.1 FOR ADDITIONAL INFO.	4,7,10,03.1 7,10,03.2
43	REMOVE WALLS, SLAB, ROOF, AND FOOTING. CONCRETE WALLS ALONG GRIDS "D" AND "F" TO REMAIN. REMOVE ALL NON STRUCTURAL ATTACHMENTS TO CONCRETE WALL, TYP.	4,03.1
44	REMOVE CONC. STAIRS, LANDINGS, FOOTINGS, AND ENCLOSING WALLS EXCEPT FOR CONCRETE WALLS ALONG GRID "A".	
45	REMOVE LOADING DOCK AND ITS FOOTING. SEE SHEET D1.1.	4,03.1
46	REMOVE WOOD UTILITY POLE.	4,03.1
47	REMOVE CONCRETE RAMP AND RETAINING WALL/CURB.	4,03.1
48	SAW CUT AND REMOVE PORTION OF WALL, 5'-8" WIDE BY 7'-0" HIGH.	
49	SAW CUT AND REMOVE CONCRETE FLOOR SLAB FOR STAIR OPENING. DO NOT OVERCUT CORNERS.	
50	REMOVE MEZZANINE AND ITS STRUCTURE ABOVE.	14,15,03.3
51	REMOVE CONCRETE RAMP AND FRAME.	9,03.3
52	REMOVE FIRE HOSE CABINET.	6,14,03.3
53	REMOVE SUSPENDED WOOD FRAME, CEILING.	2,03.3

CONSULTANT

REVISIONS

NO	DATE	DESCRIPTION

DATE

NO

SPENCER / HOSKINS associates  
Architecture & Planning

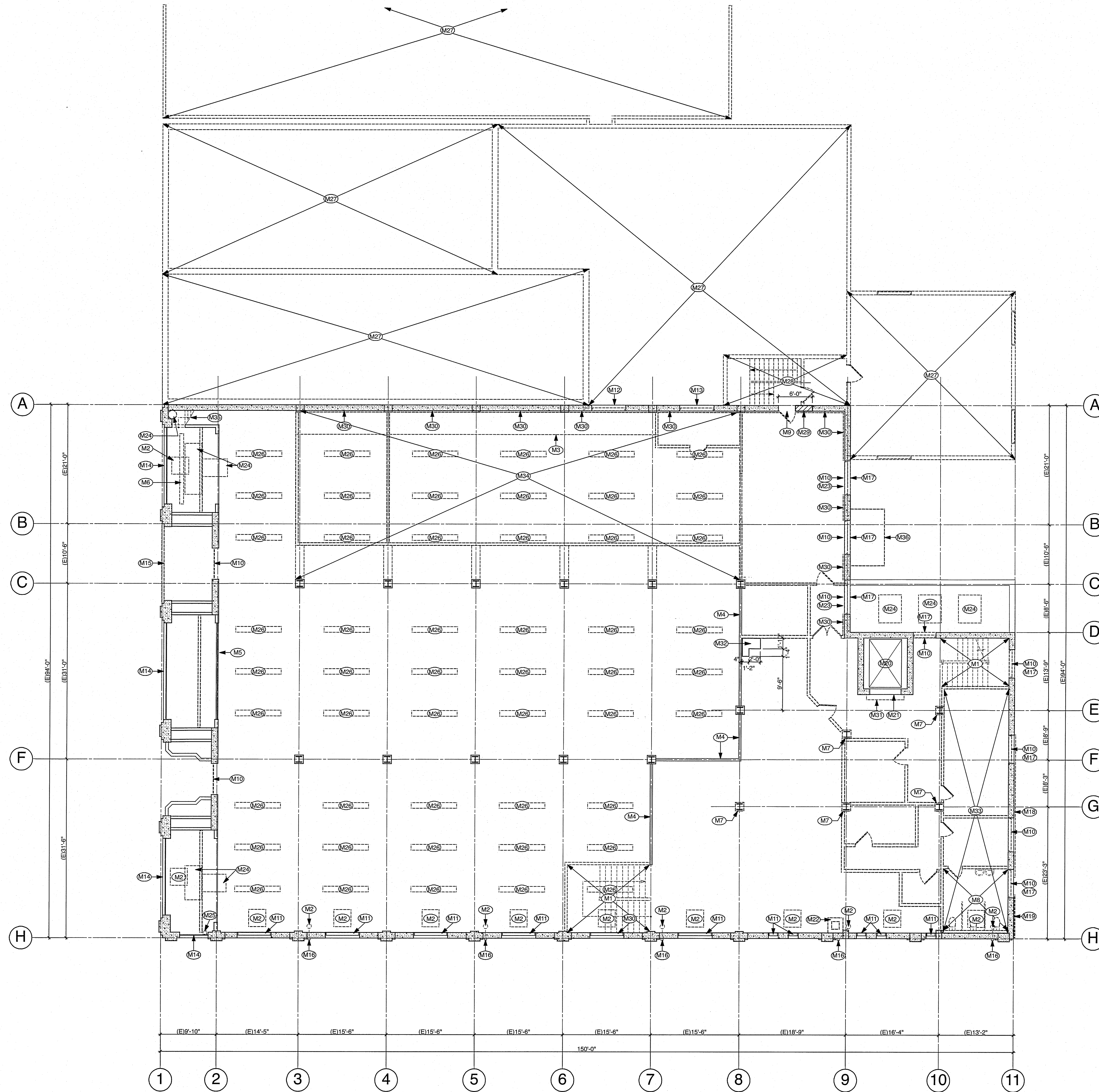
955 Overland Court, Suite 100  
Palo Verde Community College District  
725 West Broadway Street, Needles, California 92363  
James G. Spencer, AIA, Architect, C-12855  
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STATE OF CALIFORNIA  
NO. 02111  
RENEWED 02/11

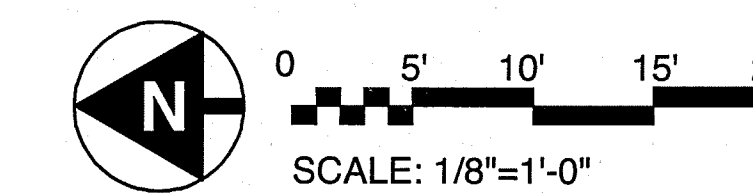
CLAYPOOL BUILDING RECONSTRUCTION  
PALO VERDE COLLEGE, NEEDLES CENTER  
PALO VERDE COMMUNITY COLLEGE DISTRICT  
725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363  
DEMOLITION PLAN - FIRST FLOOR

DATE: 07-06-07  
JOB NO.: 2007-SH95-00  
DRAWN: LM  
CHECKED: JVT



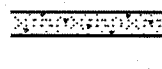

SHEET NO.  
**D2.2**  
SHEET OF



**MEZZANINE DEMOLITION PLAN**



**MEZZANINE DEMOLITION LEGEND:**

-  WALLS & DOORS TO BE REMOVED, TYP. SEE GENERAL NOTE #2.
-  PORTION OF CONCRETE WALL TO BE REMOVED, TYP. SEE KEY NOTE #s 37, 38, 39, AND 48.
-  CONCRETE WALLS TO REMAIN, TYP.
-  STEEL COLUMN TO REMAIN, TYP.

**MEZZANINE DEMOLITION GENERAL NOTES:**

NO	DESCRIPTION	NOTE
1	DRAWINGS DO NOT SHOW REMOVAL OF ANY HAZARDOUS MATERIALS, TYP.	
2	REMOVE ALL WALLS SHOWN DOTTED PER DEMOLITION LEGEND, TYP. REMOVE NON BEARING WALLS, ALL ATTACHED FINISHES, DOORS, AND ALL CONTAINED WIRING CONDUIT.	
3	CAP OFF ALL WATER, GAS, SEWER, STORM DRAIN, TELEPHONE, AND DATA AT NEAREST SOURCE. WHERE APPROPRIATE TERMINATE AT FUNCTIONING VALVE. REMOVE ALL REMAINING LINES BEYOND TERMINATION POINT, TYP.	
4	6" FIRE SERVICE TO BUILDING SHALL BE TERMINATED AND CAPPED AT MAIN SHUT OFF VALVE LOCATED AT BASEMENT. REMOVE ALL REMAINING FIRE SPRINKLER SYSTEM AT ALL FLOORS, TYP. HIGH COFFERED PLASTER CEILING OVER MAIN FLOOR AND MEZZANINE SHALL BE PROTECTED IN PLACE DURING FIRE SPRINKLER REMOVAL.	
5	REMOVE ALL MECHANICAL EQUIPMENT, PIPING, DUCTWORK, AND CONTROLS, TYP.	
6	REMOVE ALL ELECTRICAL PANELS AND SWITCH GEAR, AND MAKE SAFE, TYP.	
7	REMOVE ALL SURFACE MOUNTED CONDUIT AND CONDUCTORS, AND MAKE SAFE, TYP.	
8	REMOVE TRACTION ELEVATOR AND ALL RELATED ITEMS IN THEIR ENTIRETY. ALL WORK SHALL BE DONE IN A SAFE MANNER CONFORMING TO ALL OSHA REQUIREMENTS.	
9	REMOVE ALL CABINETS, SHELVES, RACKS, SUPPORTING BRACKETS, AND BACKING, TYP.	
10	REMOVE ALL VINYL COMPOSITION FLOOR TILE AND CARPET, TYP.	
11	REMOVE ALL MECHANICAL AND PLUMBING PIPING THAT ARE SURFACE MOUNTED ON EXTERIOR AND ROOF, TYP.	
12	HIGH COFFERED PLASTER CEILING SHALL REMAIN. PROTECT IN PLACE DURING LIGHTING AND FIRE SPRINKLER PIPE REMOVAL.	

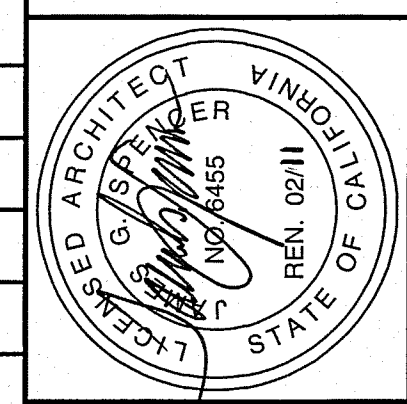
**MEZZANINE DEMOLITION KEY NOTES:**

NO	DESCRIPTION	PHOTO REF.
M1	REMOVE STAIR, HANDRAILS, LANDING AND ALL ATTACHED FINISHES IN THE ENTIRETY.	20/D3.3
M2	REMOVE PORTION OF HIGH COFFERED PLASTER CEILING TO ACCESS CONCRETE VENTS AND ROOF DRAIN PIPE IN ATTIC.	5/D3.3
M3	REMOVE SOFFIT AND MECHANICAL DUCT ABOVE.	18/D3.3
M4	REMOVE WOOD PANEL FURRING FROM METAL RAILING. CAREFULLY REMOVE METAL RAILING, PROTECT AND STORE ON SITE TO BE REINSTALLED.	10/D3.3
M5	PROTECT METAL RAILING IN PLACE.	1/D3.3
M6	STORE AND PROTECT REMOVED METAL RAILING ON SITE TO BE REINSTALLED.	4/D3.3
M7	REMOVE COLUMN ENCLOSURE, FLOOR TO CEILING.	
M8	REMOVE TOILET, SINK, PARTITION, PLUMBING PIPES, AND CERAMIC TILE FLOOR.	17/D3.3
M9	REMOVE DOOR AND FRAME.	
M10	REMOVE WINDOW AND FRAME.	19,21/D3.3
M11	REMOVE PLYWOOD/PLASTER FURRING TO EXPOSE EXISTING WINDOW, PROTECT IN PLACE.	8/D3.3
M12	EXIST. OPNG TO BE CONC. FILLED PER STRUCT.	
M13	EXIST. OPNG TO BE CONC. FILLED PER STRUCT.	
M14	PROTECT WOOD FRAME WINDOWS IN PLACE.	1,10/D3.1
M15	REMOVE EXTERIOR PLYWOOD PROTECTION BOARD AND FRAMING.	10/D3.1
M16	REMOVE LEADER HEAD AND DOWNSPOUT. ROOF DRAIN PIPE BEHIND LEADER HEAD TO REMAIN. PROTECT IN PLACE.	3/D3.1
M17	REMOVE EXTERIOR METAL GRILL.	1,4/D3.1
M18	REMOVE EXTERIOR METAL FRAMING OF REMOVED SIGNAGE.	4/D3.1
M19	REMOVE EXTERIOR WOOD FRAMING OF REMOVED SIGNAGE.	4/D3.1
M20	REMOVE ELEVATOR, GUIDE RAIL, AND ALL RELATED ITEMS IN THEIR ENTIRETY, SEE GENERAL NOTE #8.	22/D3.1
M21	SAWCUT AND REMOVE CONCRETE HEADER AT ELEVATOR DOOR OPENING PER 1/D2.1. FIELD VERIFY WITH ELEVATOR MFR.	22/D3.1
M22	REMOVE CONCRETE/BRICK CHIMNEY.	
M23	SAWCUT AND REMOVE PORTION OF WALL PER 1/D2.2.	4/D3.1
M24	REMOVE ALL MECHANICAL EQUIPMENT, PIPING, DUCTWORK, AND CONTROLS, TYP.	18/D3.3
M25	REMOVE ALL ELECTRICAL PANELS AND SWITCHGEAR, TYP.	21/D3.3
M26	REMOVE ALL SURFACE MOUNTED FLUORESCENT LIGHT FIXTURES ABOVE AT HIGH COFFERED PLASTER CEILING, TYP. PROTECT PLASTER CEILING IN PLACE. SEE GENERAL NOTE #12.	18/D3.3
M27	REMOVE EXISTING BUILDING INCLUDING WALLS, ROOF, FOOTINGS AND UNDERGROUND PIPINGS. SEE SHEET D1.1 FOR ADDITIONAL INFO.	4,7,10/D3.1 7,10/D3.2
M28	REMOVE CONC. STAIRS, LANDINGS, FOOTINGS, AND ENCLOSING WALLS EXCEPT FOR CONCRETE WALLS ALONG GRID "A".	
M29	SAWCUT AND REMOVE PORTION OF WALL, FULL HEIGHT OF ADJACENT DOOR OPENING.	18/D3.3
M30	REMOVE PLASTER FURRING AND FRAMING.	18/D3.3
M31	REMOVE ROLL DOWN METAL FIRE DOOR.	22/D3.3
M32	SAWCUT AND REMOVE CONCRETE FLOOR SLAB FOR MECH. DUCT PENETRATION. VERIFY SIZE AND LOCATION WITH MECH. DO NOT OVERCUT CORNERS AND DO NOT DAMAGE EXISTING STRUCTURE BELOW.	
M33	REMOVE SUSPENDED CEILING.	
M34	REMOVE MEZZANINE AND ITS STRUCTURE.	15,18/D3.3
M35	REMOVE WOOD STAIRS.	3/D3.3
M36	REMOVE CANOPY FRAMING.	5/D3.1

CONSULTANT

NO	DATE	REVISIONS

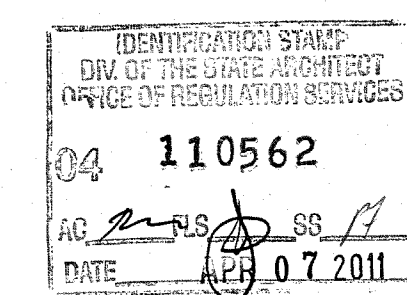
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 955 Overland Court, Suite 100  
 95099 San Ramon, California 94703  
 925.938.8400  
 925.938.8401  
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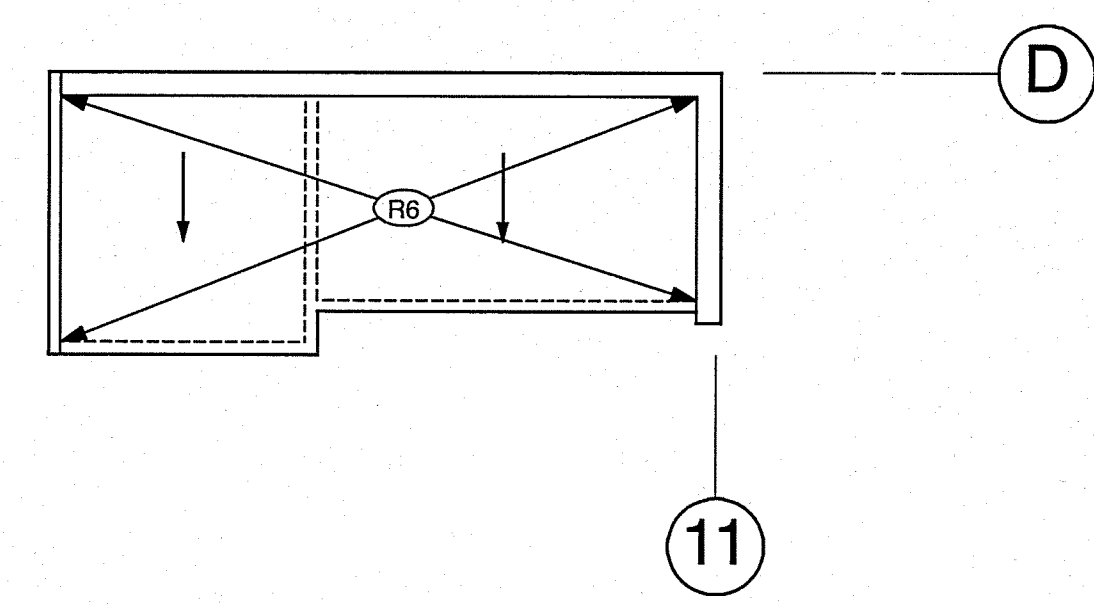


**CLAYPOOL BUILDING RECONSTRUCTION**  
 PALO VERDE COLLEGE, NEEDLES CENTER  
 PALO VERDE COMMUNITY COLLEGE DISTRICT  
 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363  
**DEMOLITION PLAN - MEZZANINE**

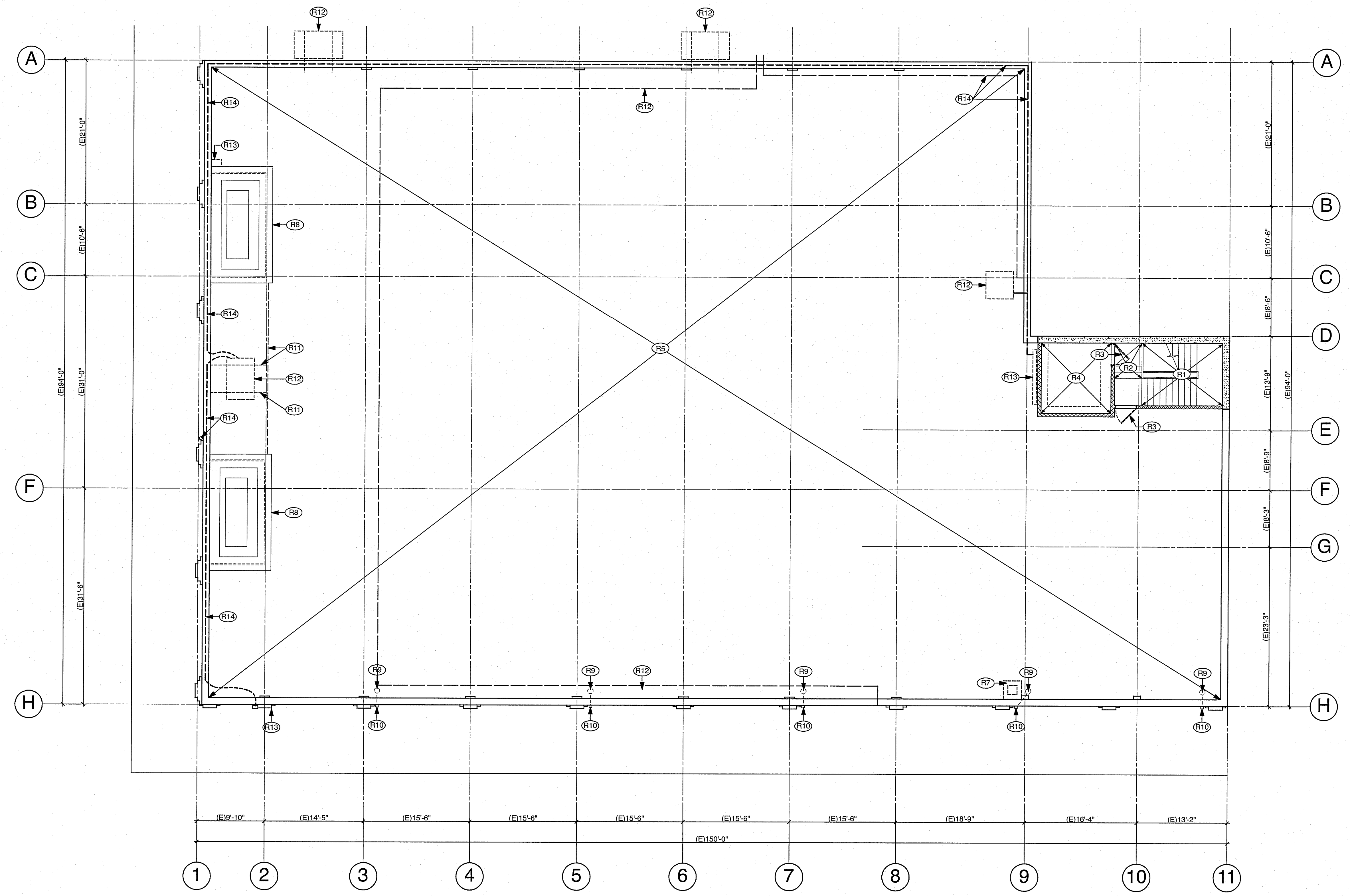
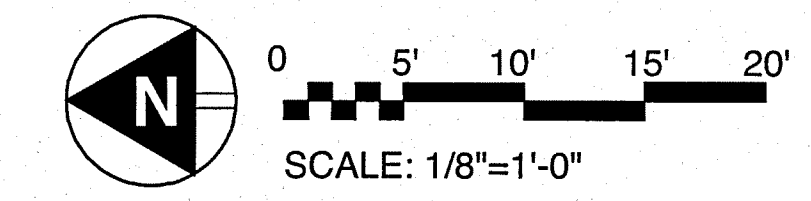
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CHECKED	JVT

SHEET NO.  
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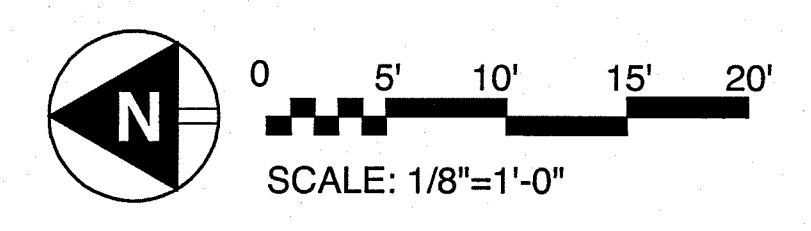




## 2. PENTHOUSE ROOF DEMOLITION PLAN



## 1. ROOF DEMOLITION PLAN



**ROOF DEMOLITION LEGEND:**

DOOR AND FRAME TO BE REMOVED, TYP. SEE KEY NOTE #3.

CONCRETE WALLS TO REMAIN, TYP.

**ROOF DEMOLITION GENERAL NOTES:**

NO	DESCRIPTION	NOTE
1	DRAWINGS DO NOT SHOW REMOVAL OF ANY HAZARDOUS MATERIALS, TYP.	
2	NOT USED.	
3	CAP OFF ALL WATER, GAS, SEWER, STORM DRAIN, TELEPHONE, AND DATA AT NEAREST SOURCE WHERE APPROPRIATE. TERMINATE AT FUNCTIONING VALVE. REMOVE ALL REMAINING LINES BEYOND TERMINATION POINT, TYP.	
4	6" FIRE SERVICE TO BUILDING SHALL BE TERMINATED AND CAPPED AT MAIN SHUT OFF VALVE LOCATED AT BASEMENT. REMOVE ALL REMAINING FIRE SPRINKLER SYSTEM AT ALL FLOORS, TYP. HIGH COFFERED PLASTER CEILING OVER MAIN FLOOR AND MEZZANINE SHALL BE PROTECTED IN PLACE DURING FIRE SPRINKLER REMOVAL.	
5	REMOVE ALL MECHANICAL EQUIPMENT, PIPING, DUCTWORK, AND CONTROLS, TYP.	
6	REMOVE ALL ELECTRICAL PANELS AND SWITCH GEAR, AND MAKE SAFE, TYP.	
7	REMOVE ALL SURFACE MOUNTED CONDUIT AND CONDUCTORS, AND MAKE SAFE, TYP.	
8	REMOVE TRACTION ELEVATOR AND ALL RELATED ITEMS IN THEIR ENTIRETY. ALL WORK SHALL BE DONE IN A SAFE MANNER CONFORMING TO ALL OSHA REQUIREMENTS.	
9	REMOVE ALL CABINETS, SHELVES, RACKS, SUPPORTING BRACKETS, AND BACKING, TYP.	
10	REMOVE ALL MECHANICAL AND PLUMBING PIPING THAT ARE SURFACE MOUNTED ON EXTERIOR AND ROOF, TYP.	

**ROOF DEMOLITION KEY NOTES:**

NO	DESCRIPTION	PHOTO REF.
(R1)	REMOVE STAIR, HANDRAILS, LANDING AND ALL ATTACHED FINISHES IN THEIR ENTIRETY.	5/D3.2
(R2)	REMOVE STAIR AND HANDRAILS IN THEIR ENTIRETY. EXPOSE LEVEL CONCRETE SLAB UNDER STAIR.	5/D3.2
(R3)	REMOVE DOOR AND FRAME.	5,8/D3.2
(R4)	REMOVE ELEVATOR EQUIPMENT, SEE GENERAL NOTE #8.	6/D3.2
(R5)	REMOVE ROOFING, SLOPED WOOD FRAMING BELOW, AND EDGE FLASHING IN THEIR ENTIRETY.	1,4/D3.2
(R6)	REMOVE ROOFING AND EDGE FLASHING IN THEIR ENTIRETY.	8/D3.2
(R7)	REMOVE CONCRETE/BRICK CHIMNEY.	2/D3.2
(R8)	PYRAMID SHAPED CONCRETE STRUCTURE TO REMAIN. PROTECT IN PLACE.	12/D3.2
(R9)	REMOVE ROOF DRAIN, PROTECT AND STORE ON SITE TO BE REINSTALLED.	3/D3.2
(R10)	REMOVE LEADER HEAD AND DOWNSPOUT. ROOF DRAIN PIPE BEHIND LEADER HEAD TO REMAIN. PROTECT IN PLACE.	3/D3.1
(R11)	REMOVE METAL SUPPORTS FOR MECHANICAL EQUIPMENT.	12/D3.2
(R12)	REMOVE ALL MECHANICAL EQUIPMENT, PIPING, DUCTWORK, AND CONTROLS, TYP.	9,11,12/D3.2
(R13)	REMOVE ALL ELECTRICAL PANELS AND SWITCHGEAR, TYP.	9/D3.2
(R14)	REMOVE ALL SURFACE MOUNTED CONDUIT AND CONDUCTORS, AND MAKE SAFE, TYP.	2/D3.2

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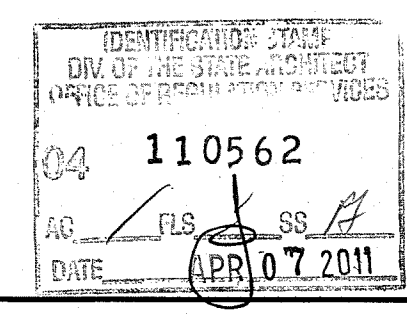
**CLAYPOOL BUILDING RECONSTRUCTION**  
PALO VERDE COLLEGE, NEEDLES CENTER  
PALO VERDE COMMUNITY COLLEGE DISTRICT  
725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363

**DEMOLITION PLAN - ROOF**

DATE	07-06-07
JOB NO.	2007-SH95-00
DRAWN	LM
CHECKED	JVT

SHEET NO. **D2.4**

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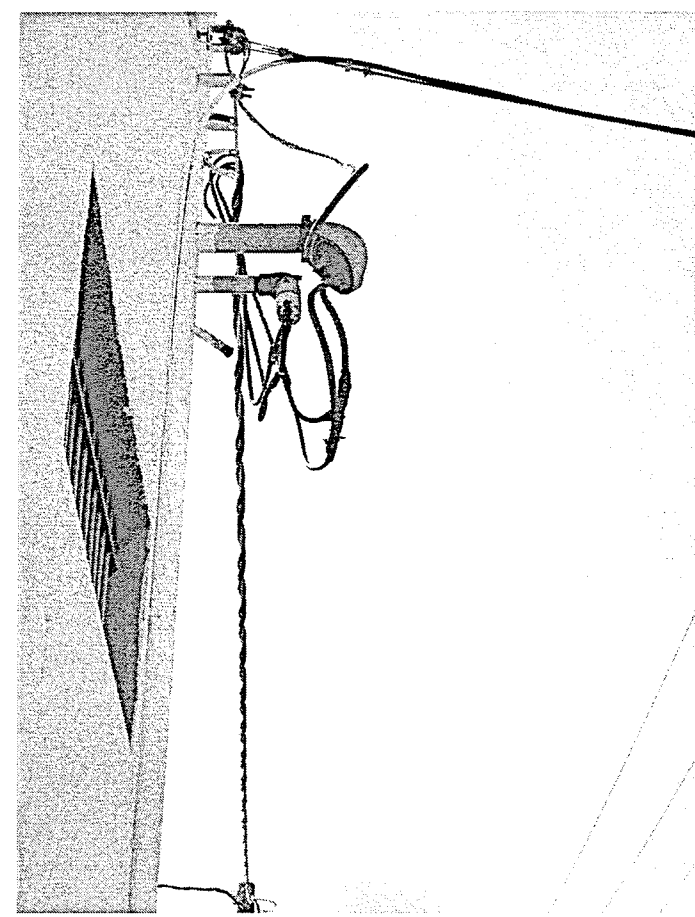




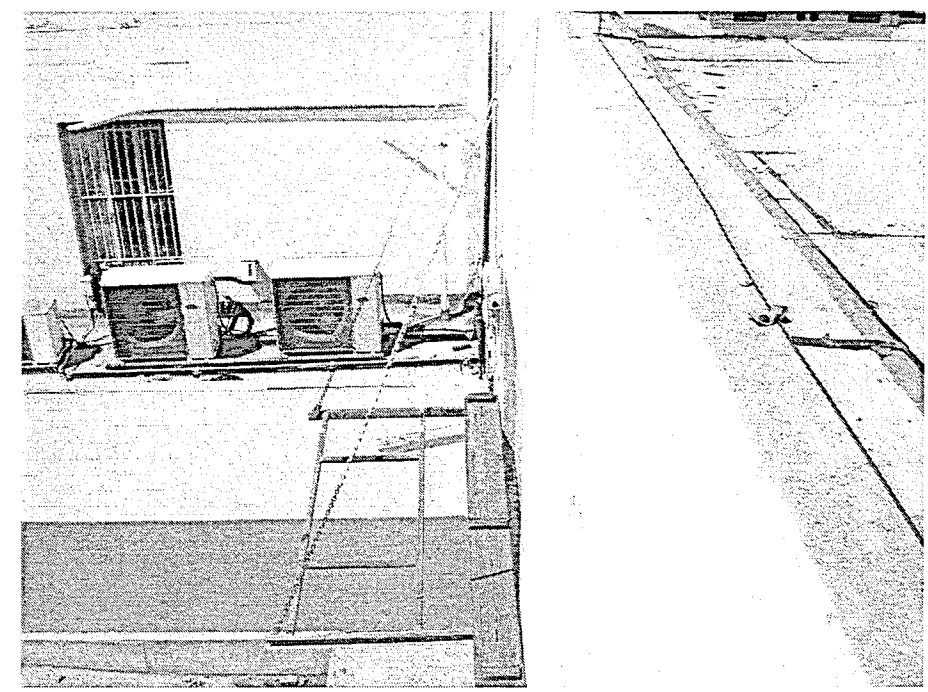
ENTRANCE ALCOVE **9**



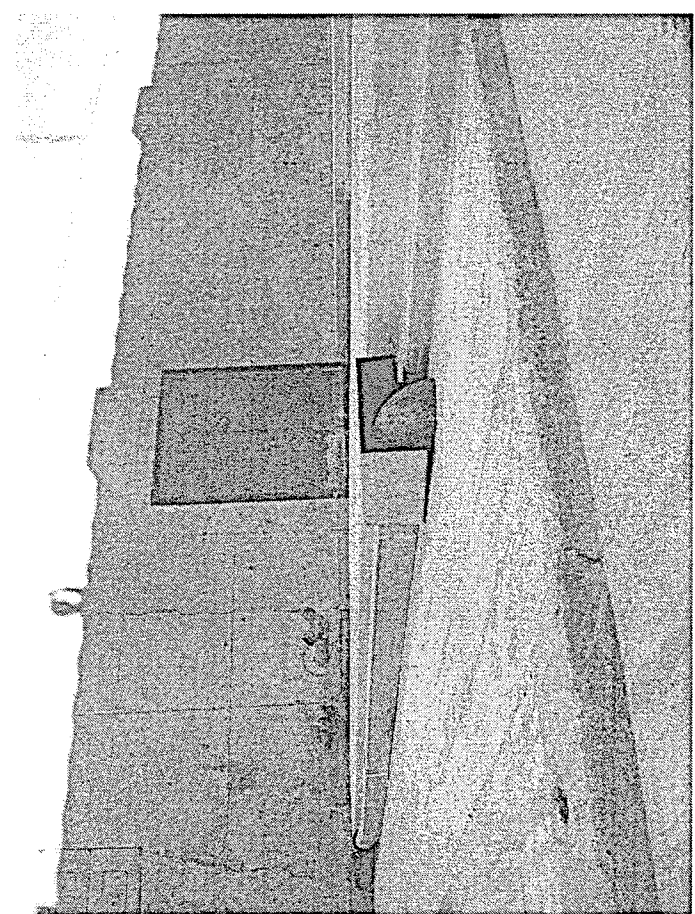
METAL BUILDING STRUCTURE **8**



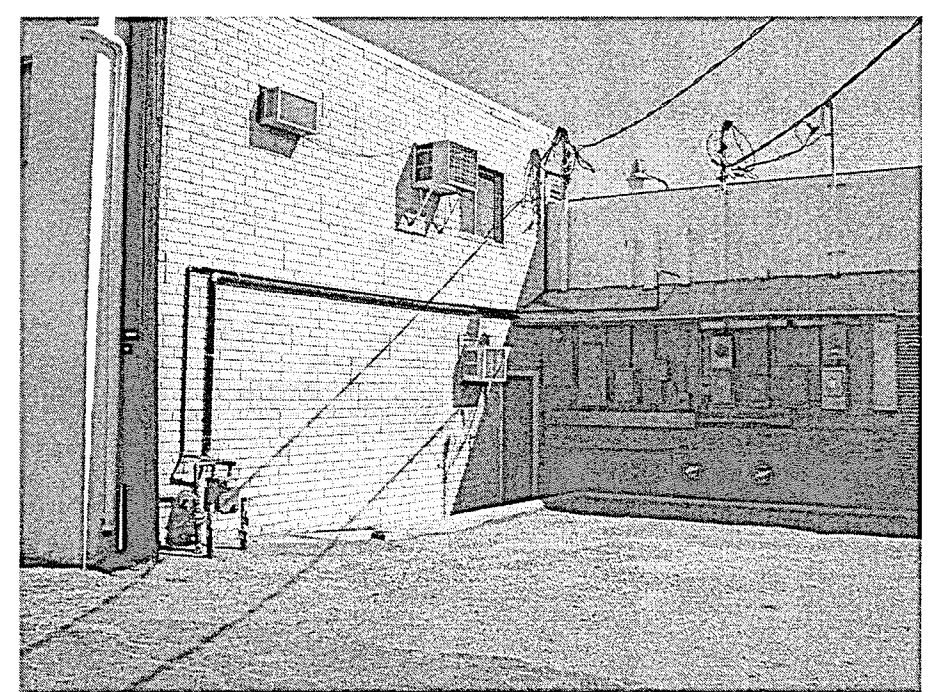
POWER CONNECTION **6**



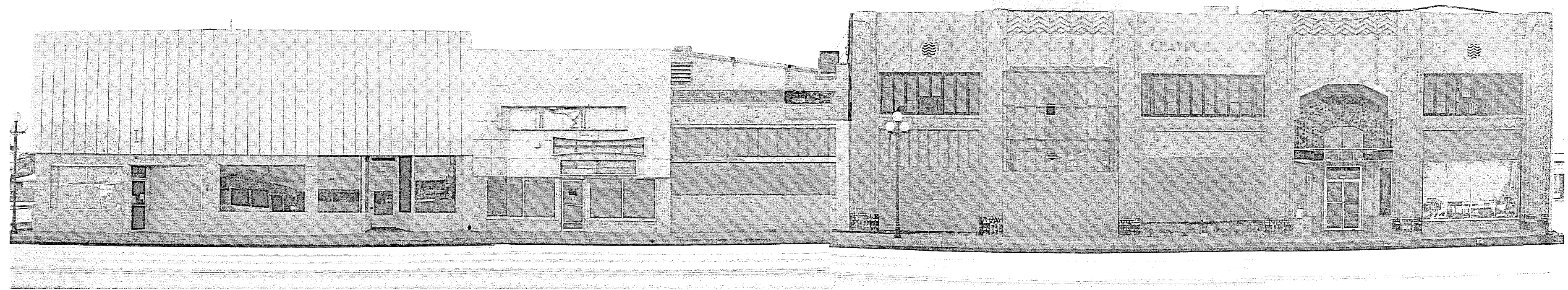
CANOPY FRAME **5**



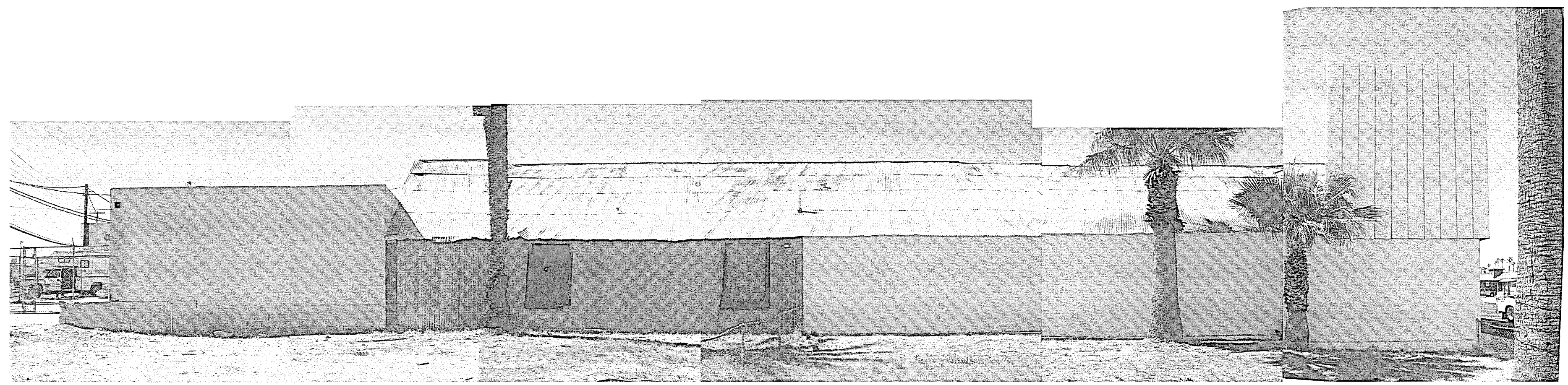
ROOF DRAIN LEADER **3**



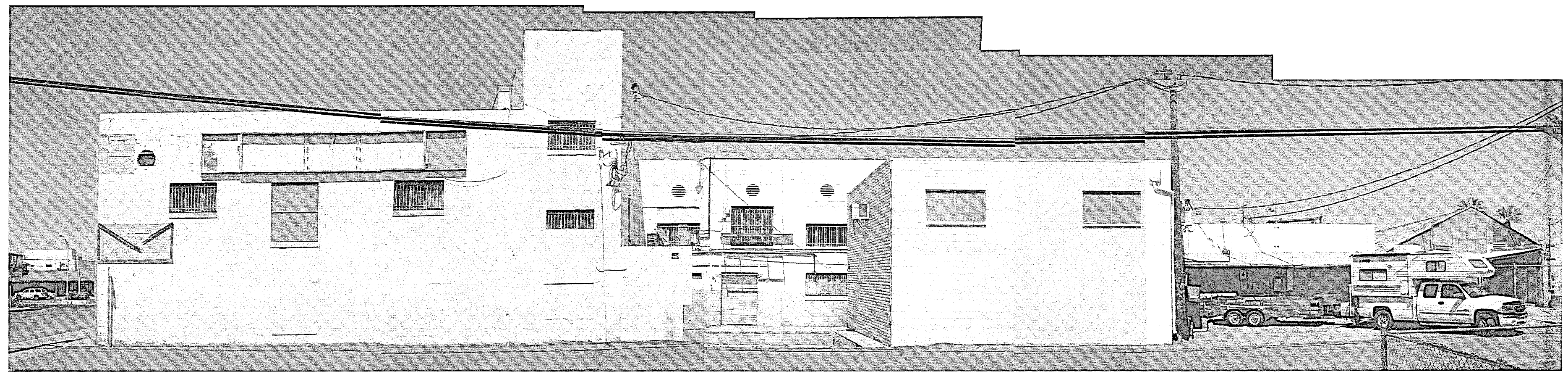
GAS METER **2**



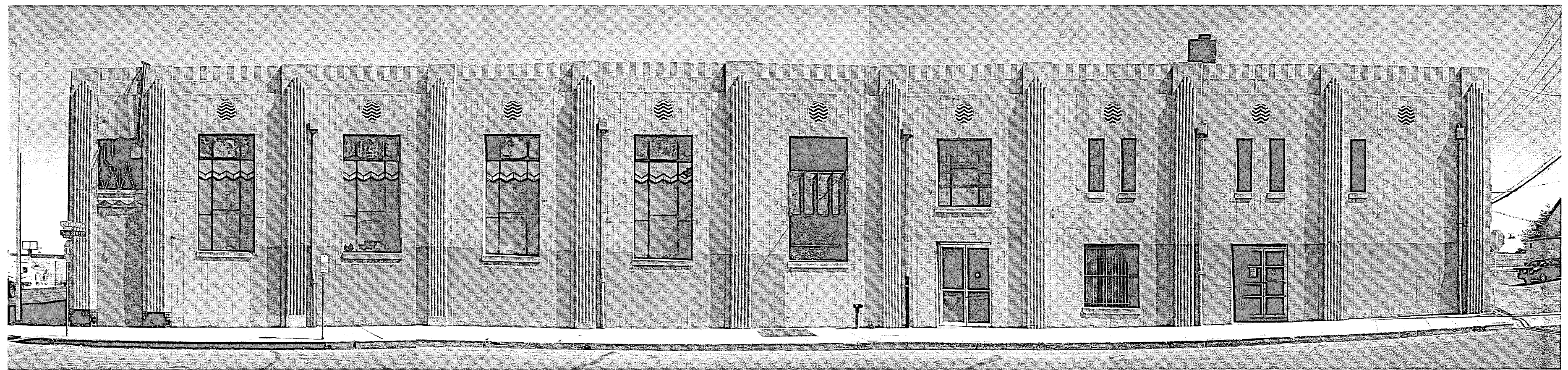
NORTH EXTERIOR ELEVATION **10**



EAST EXTERIOR ELEVATION **7**



SOUTH EXTERIOR ELEVATION **4**

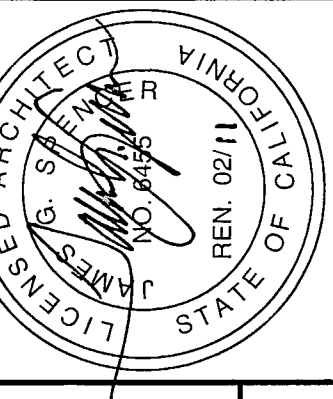


WEST EXTERIOR ELEVATION **1**

CONSULTANT

NO. DATE

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 Jay R. Title, AIA, Architect C-72855  
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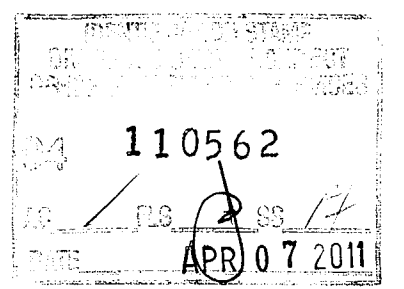
**CLAYPOOL BUILDING RECONSTRUCTION**  
**PALO VERDE COLLEGE, NEEDLES CENTER**  
 PALO VERDE COMMUNITY COLLEGE DISTRICT  
 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363  
**Existing Building Photos, Exterior**

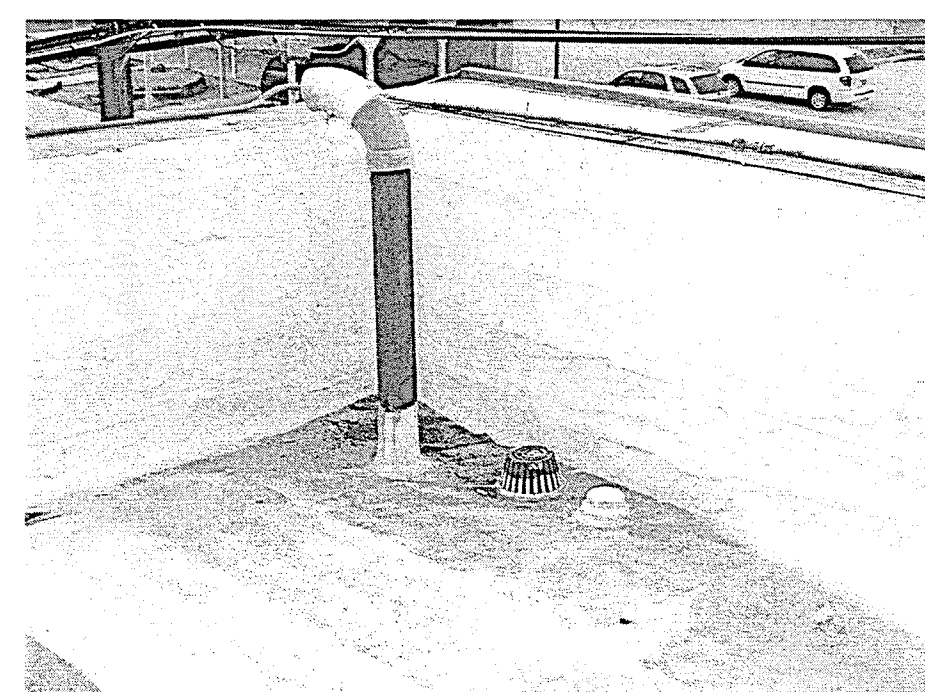
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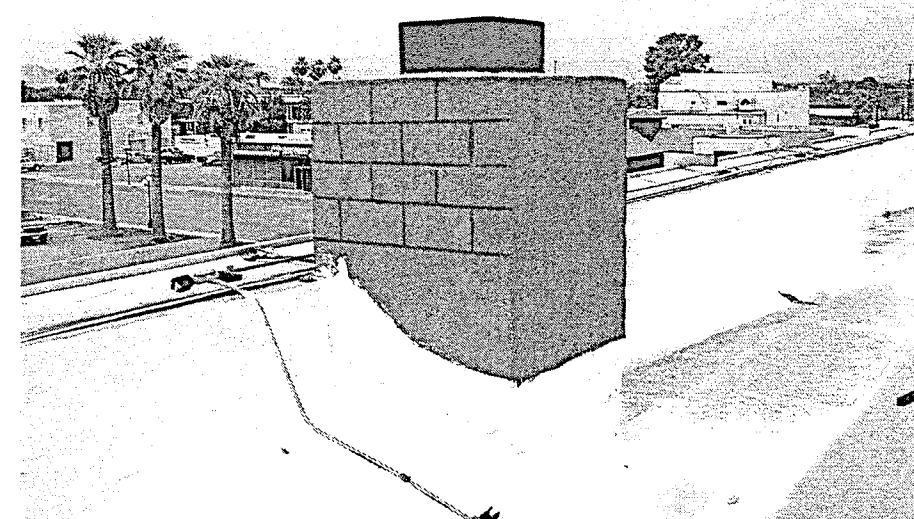
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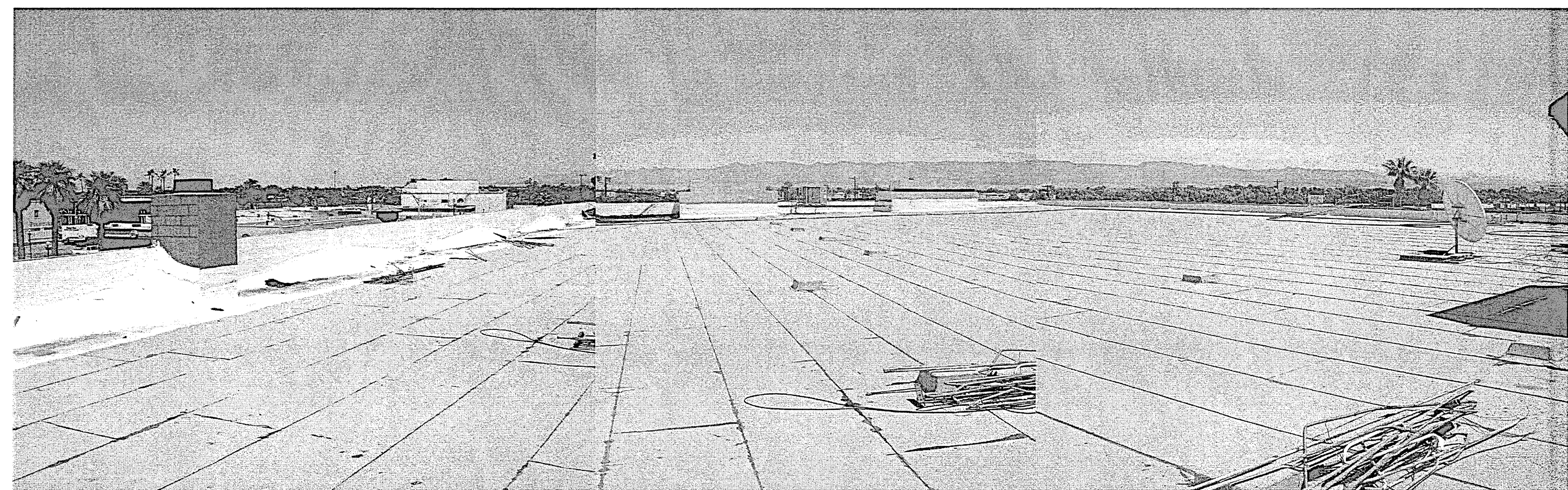




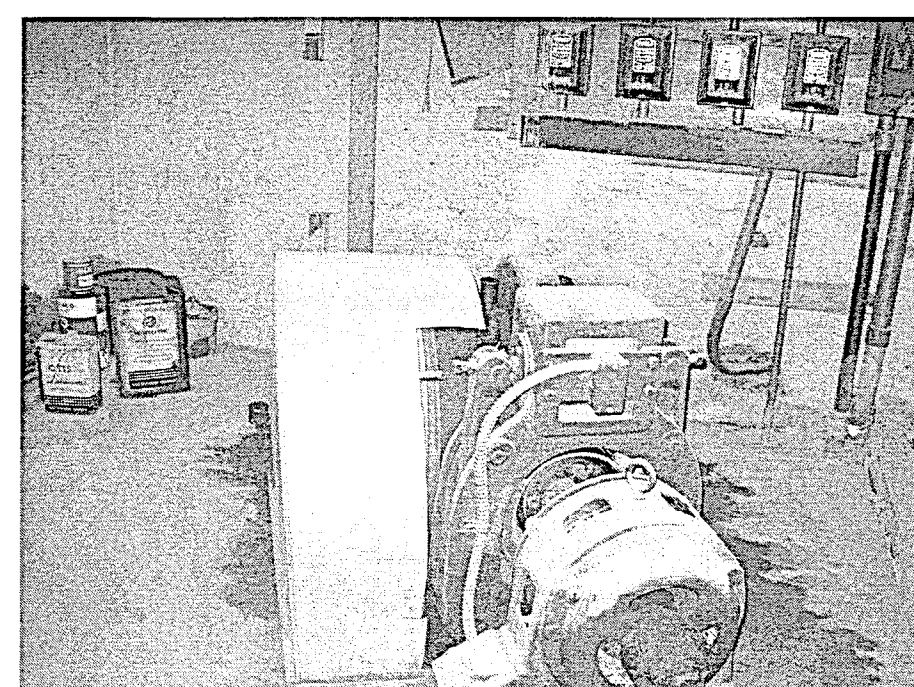
PIPE PENETRATION AND ROOF DRAIN 3



ELEVATOR EQUIPMENT 2



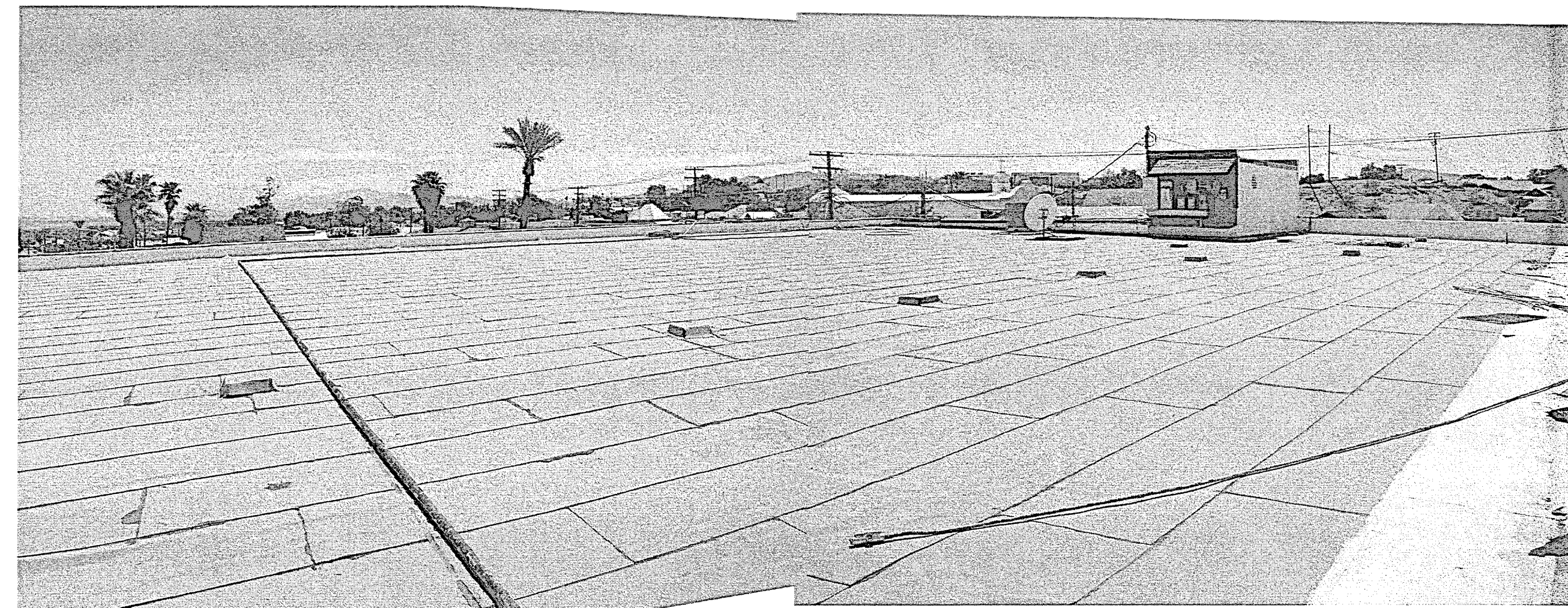
ROOF LOOKING NORTH 1



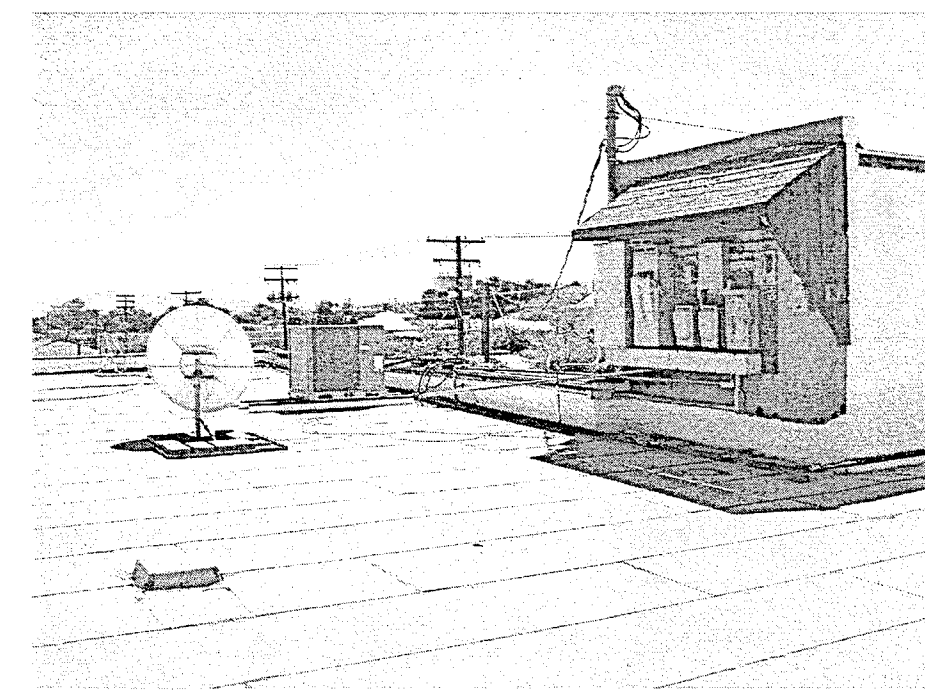
ELEVATOR EQUIPMENT 6



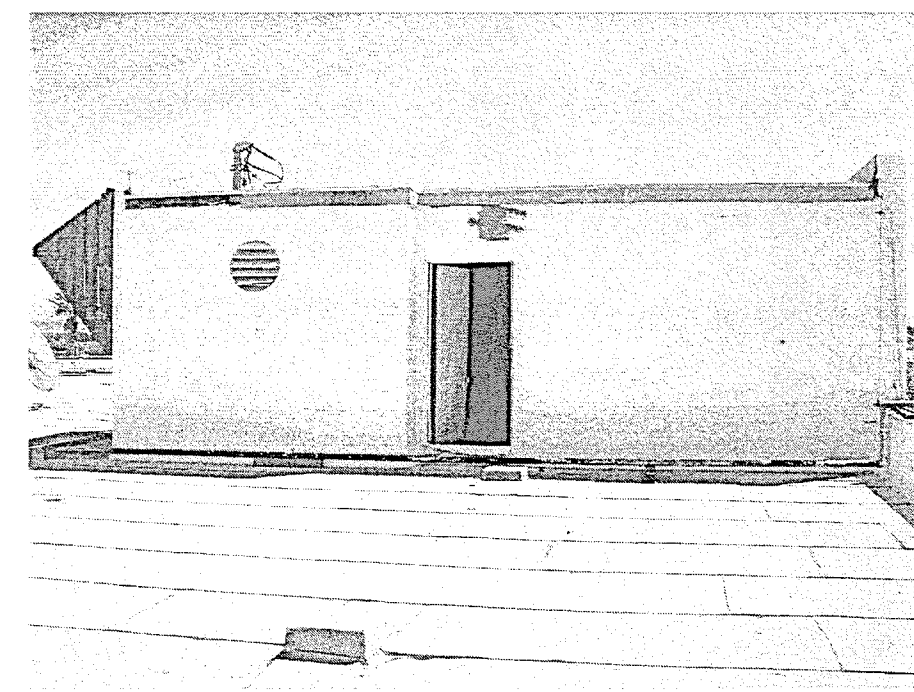
STAIR TO ROOF 5



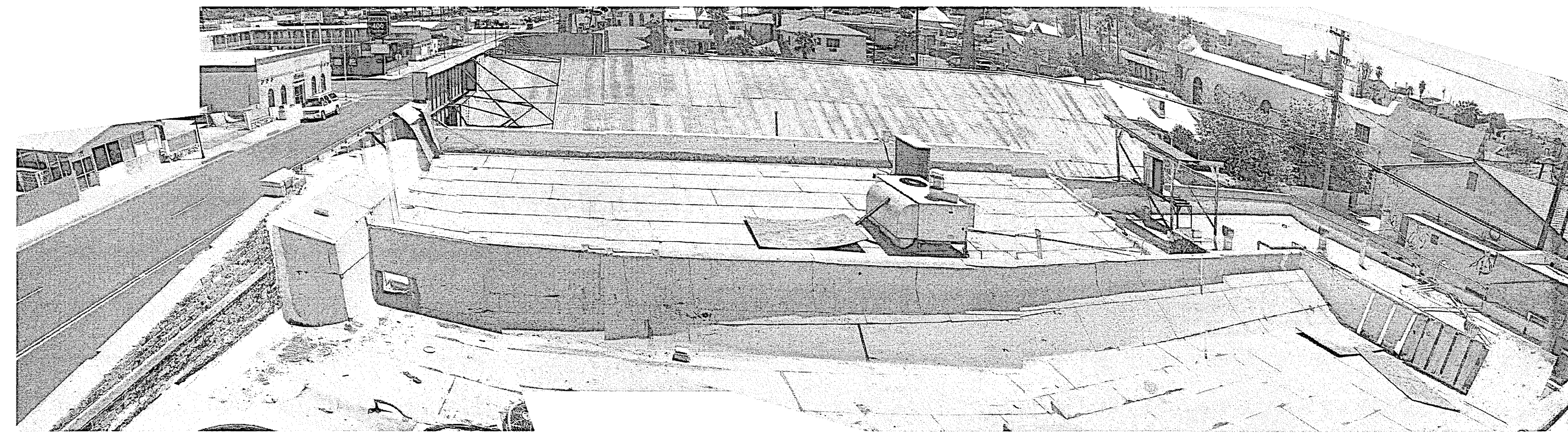
ROOF LOOKING SOUTHEAST 4



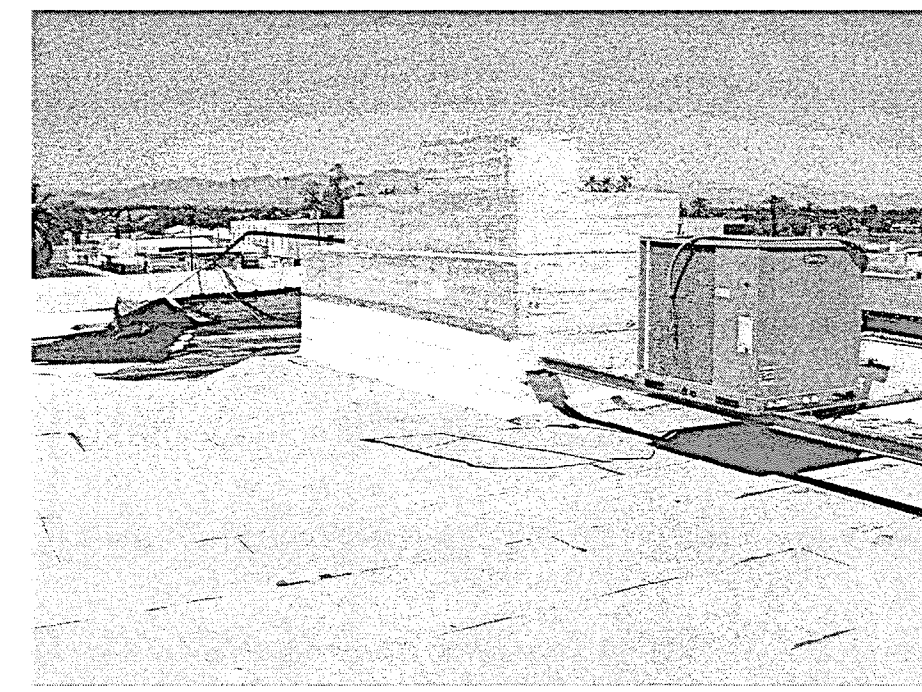
ELECTRICAL PANELS 9



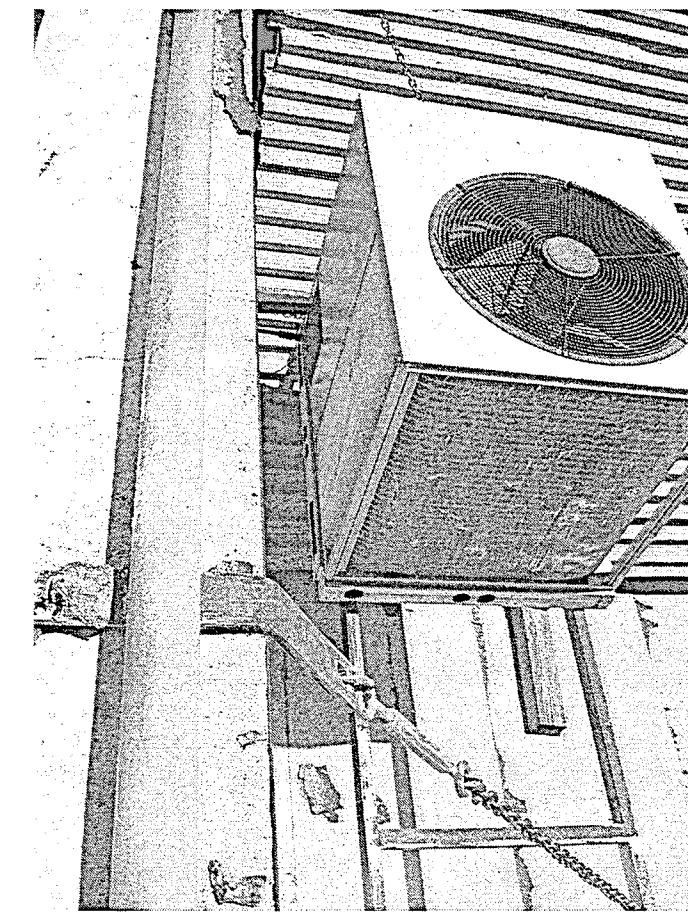
ROOF PENTHOUSE 8



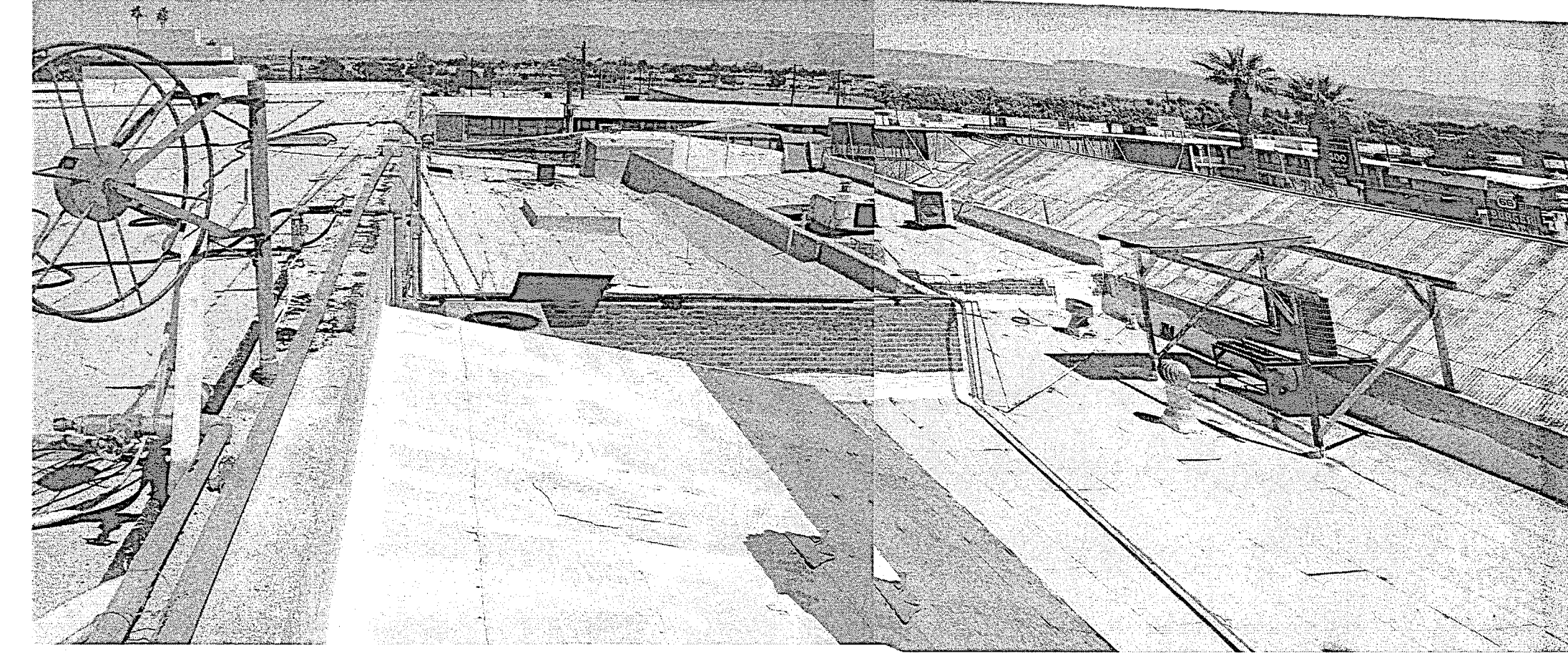
ROOF OF ADJACENT BUILDINGS 7



PYRAMID SHAPED CONC. STRUCTURE 12



MECH. EQUIPMENT 11



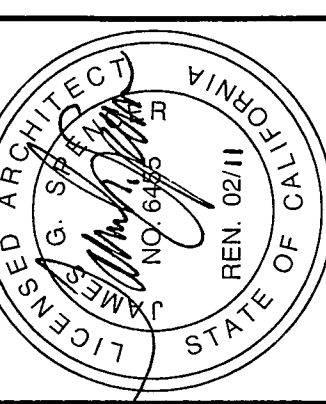
ROOF OF ADJACENT BUILDINGS 10

CONSULTANT

NO. DATE REVISIONS

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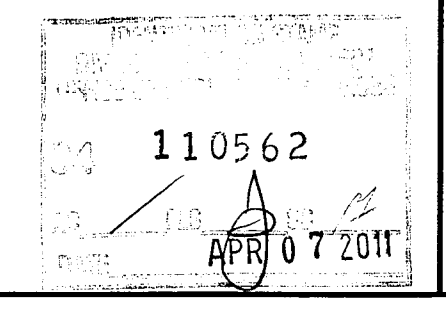
CLAYPOOL BUILDING RECONSTRUCTION  
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PALO VERDE COMMUNITY COLLEGE DISTRICT  
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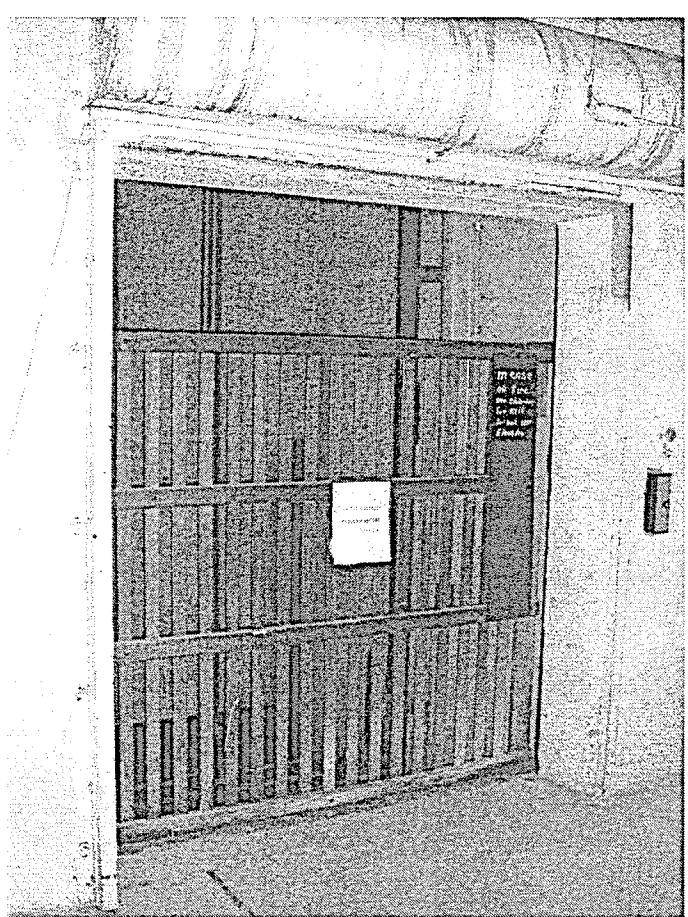
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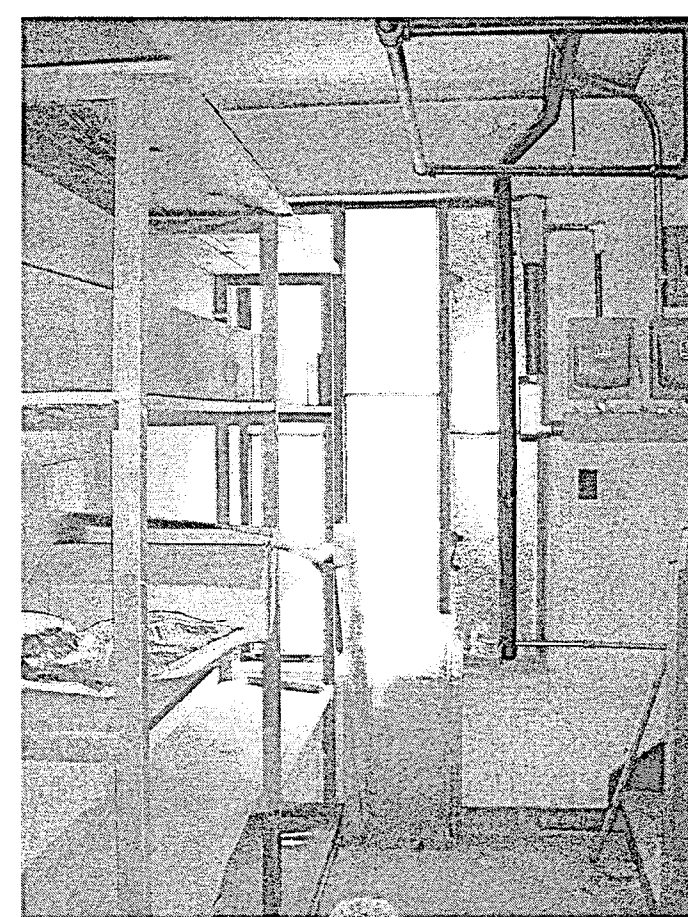
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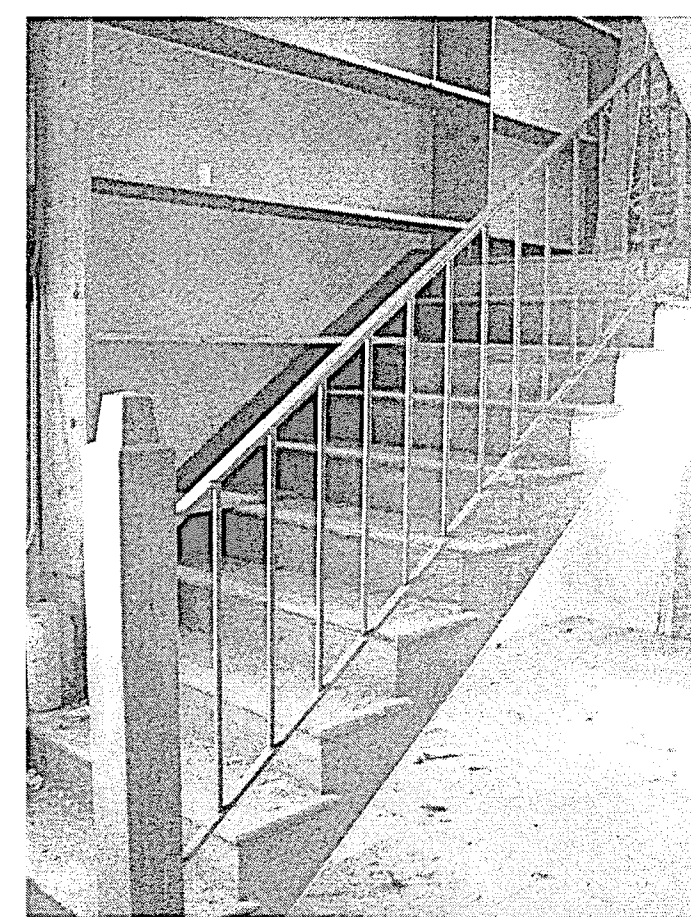




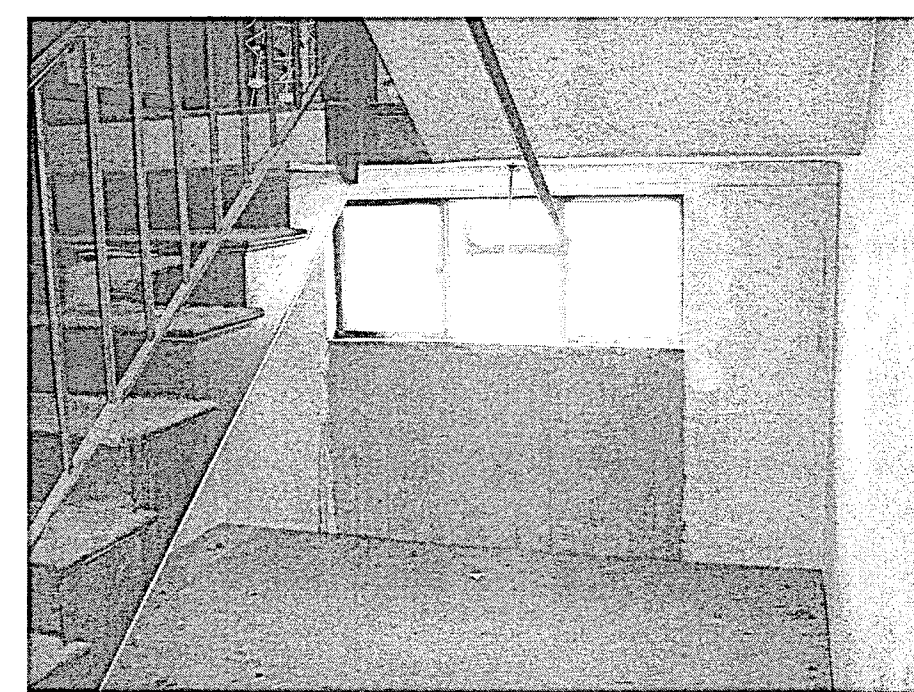
MEZZANINE ELEVATOR OPENING 22



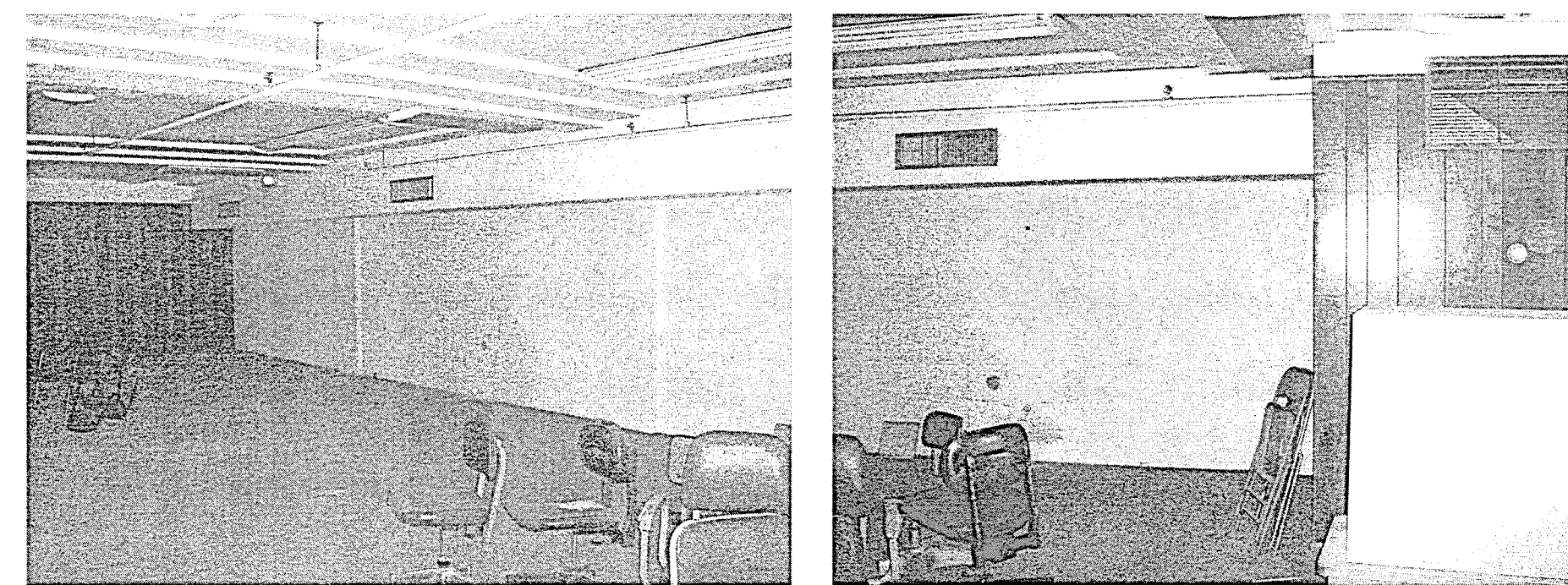
STAIR WINDOW 21



STAIR TO ROOF 20



STAIR WINDOW 19



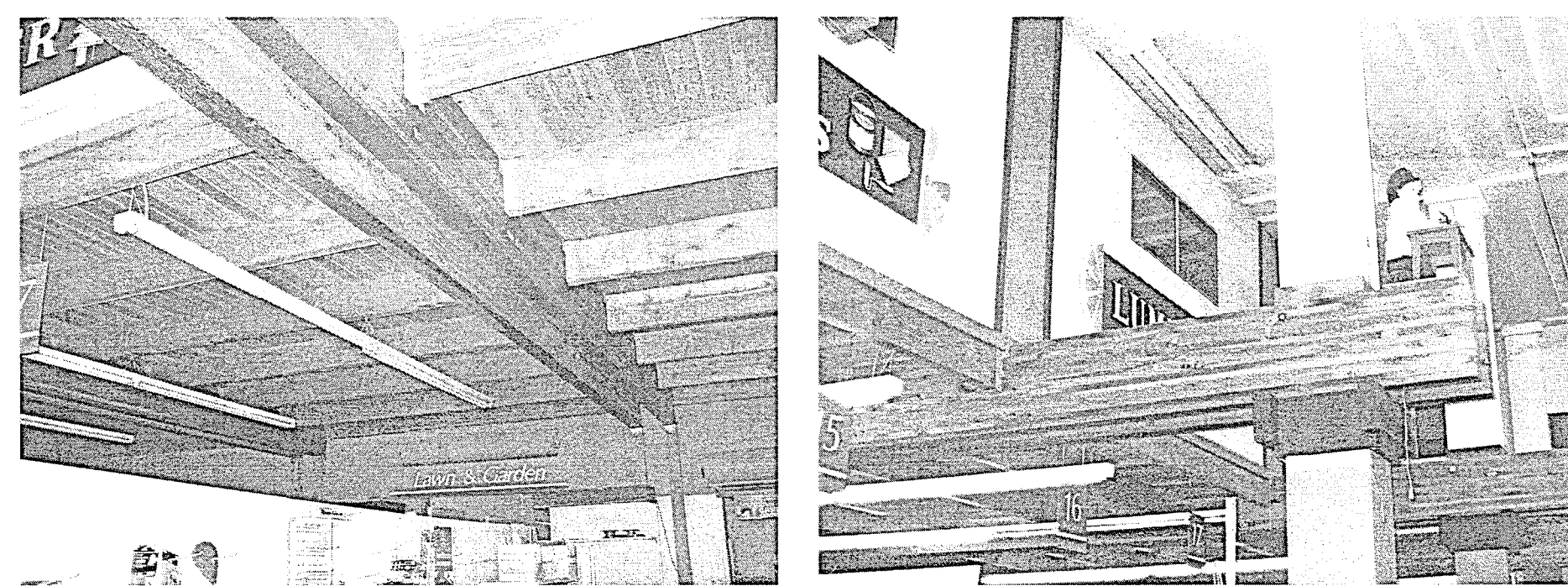
MEZZANINE OVER GLUE LAMINATED BEAM FRAMING 18



RESTROOM 17



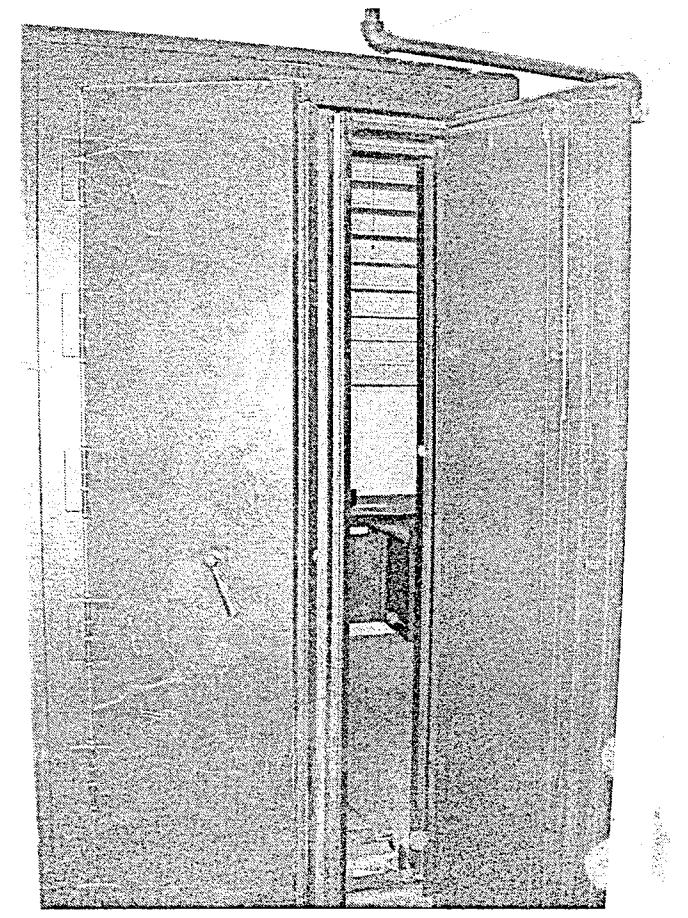
CONC. STAIR TO SMALL RESTROOM 16



GLUE LAMINATED BEAM SUPPORT FOR MEZZANINE 15



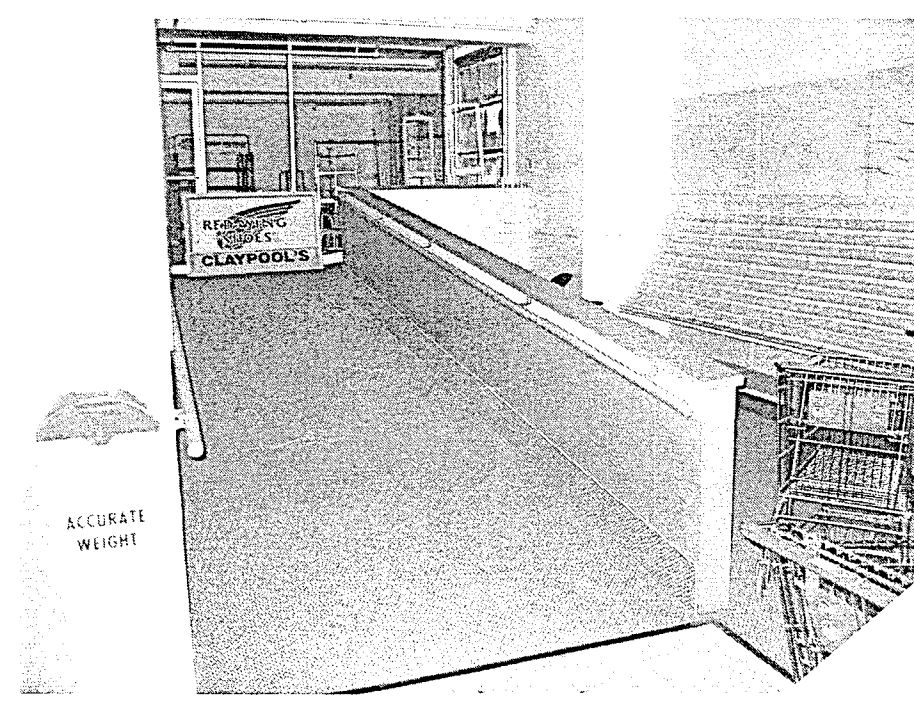
EAST INTERIOR ELEVATION 14



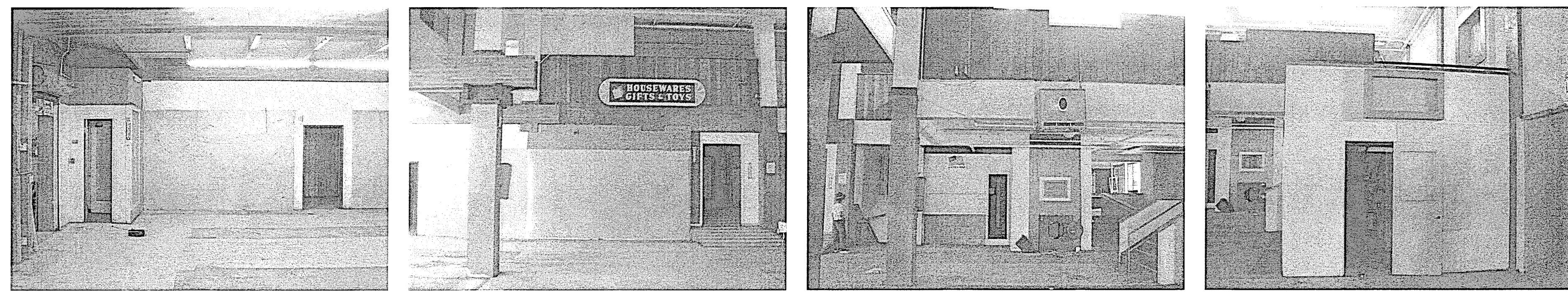
VAULT DOOR 13



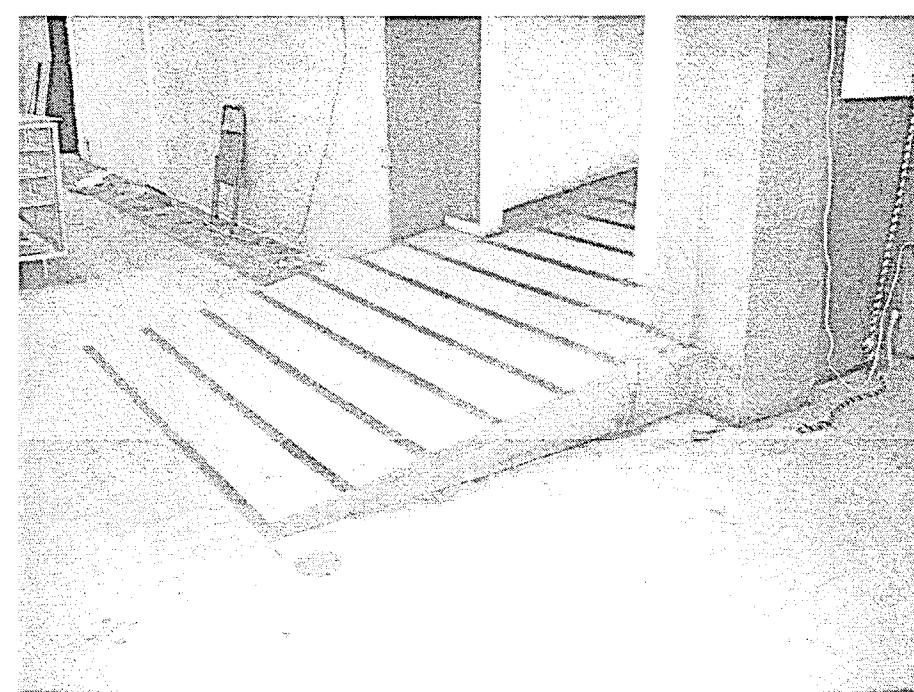
STOREFRONT DOOR & WINDOW 12



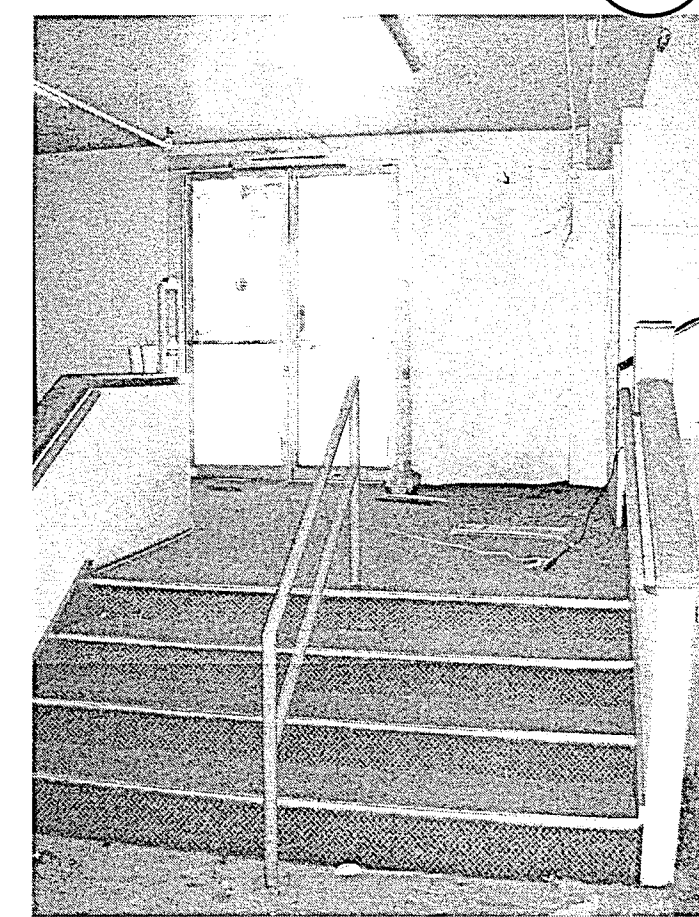
WOOD RAMP 11



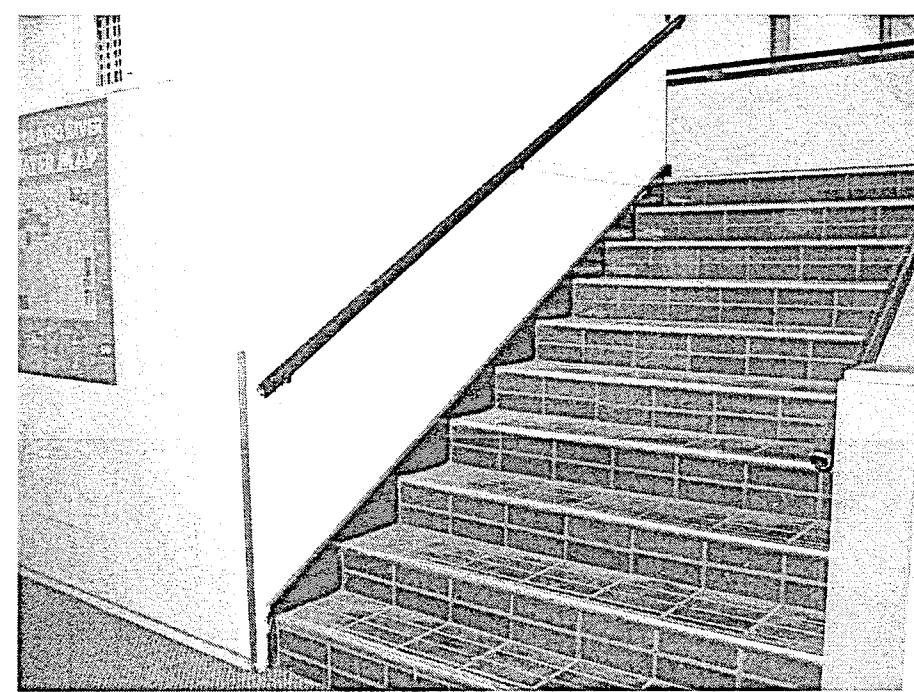
SOUTH INTERIOR ELEVATION 10



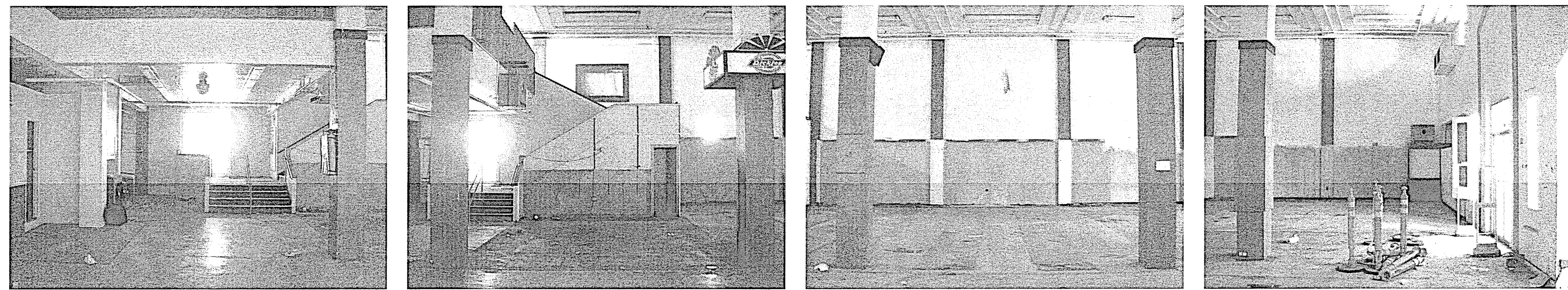
CONCRETE RAMP 9



STAIR AT WEST ENTRANCE 8



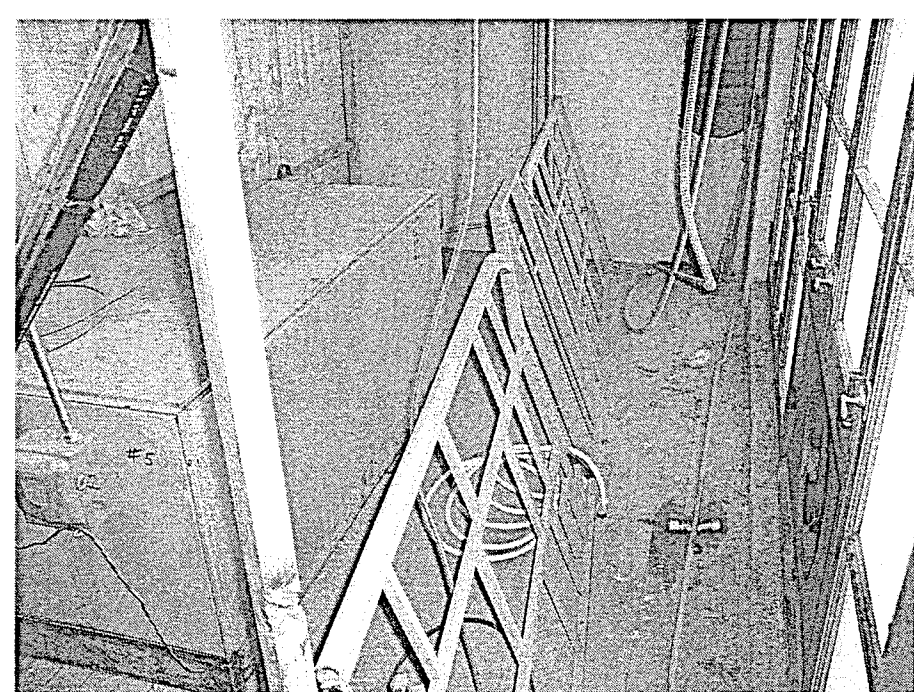
STAIR TO MEZZANINE 7



WEST INTERIOR ELEVATION 6



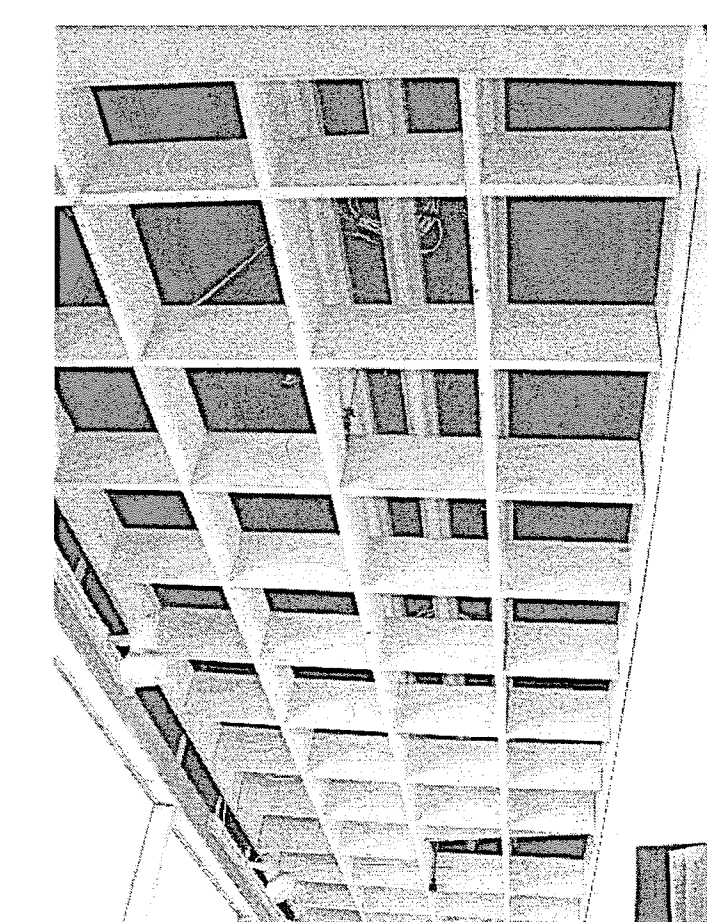
HIGH COFFERED CEILING 5



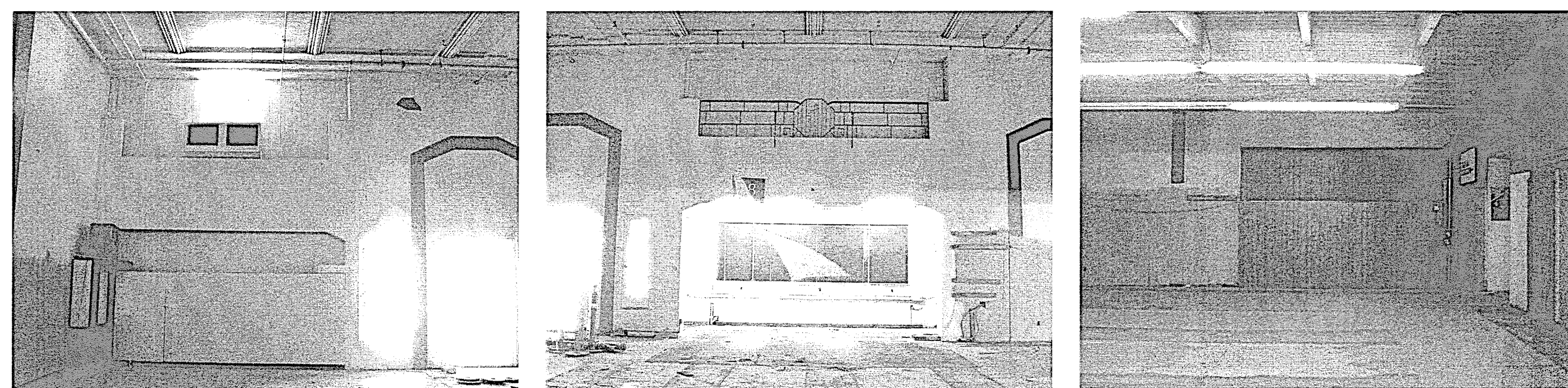
METAL RAILING 4



WOOD STAIR 3



CEILING AT NORTH ALCOVE 2



NORTH INTERIOR ELEVATION 1

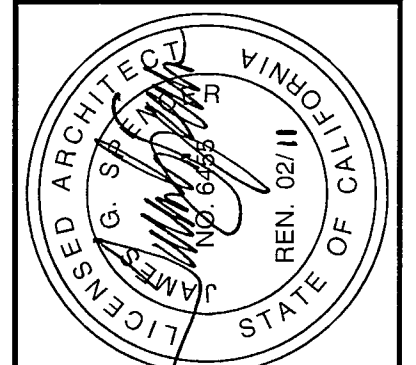
CONSULTANT

REVISIONS

DATE

REV

SPENCER / HOSKINS associates  
Architecture & Planning  
Jay R. Title, AIA, Architect C-12855  
James G. Spencer, AIA, Architect C-6455  
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955 Overland Court, Suite 100  
Palo Verde, California 91775-7178  
(909) 971-8400  
Fax (909) 956-1521



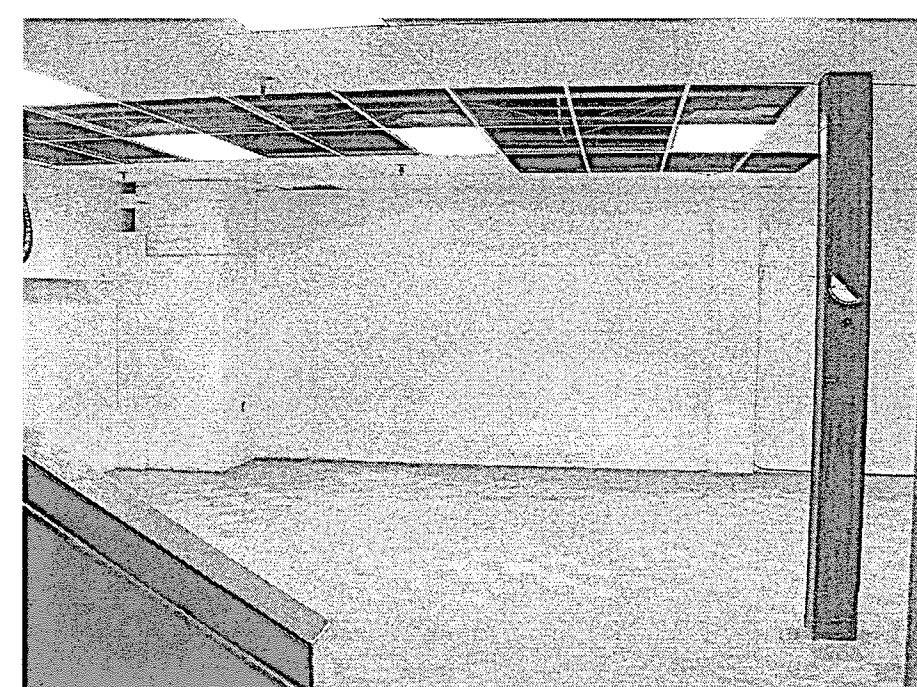
CLAYPOOL BUILDING RECONSTRUCTION  
PALO VERDE COLLEGE, NEEDLES CENTER  
PALO VERDE COMMUNITY COLLEGE DISTRICT  
725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363  
Existing Building Photos, Main Floor & Mezzanine

DATE 07-06-07  
JOB NO. 2007-SH95-00  
DRAWN KK  
CHECKED JT

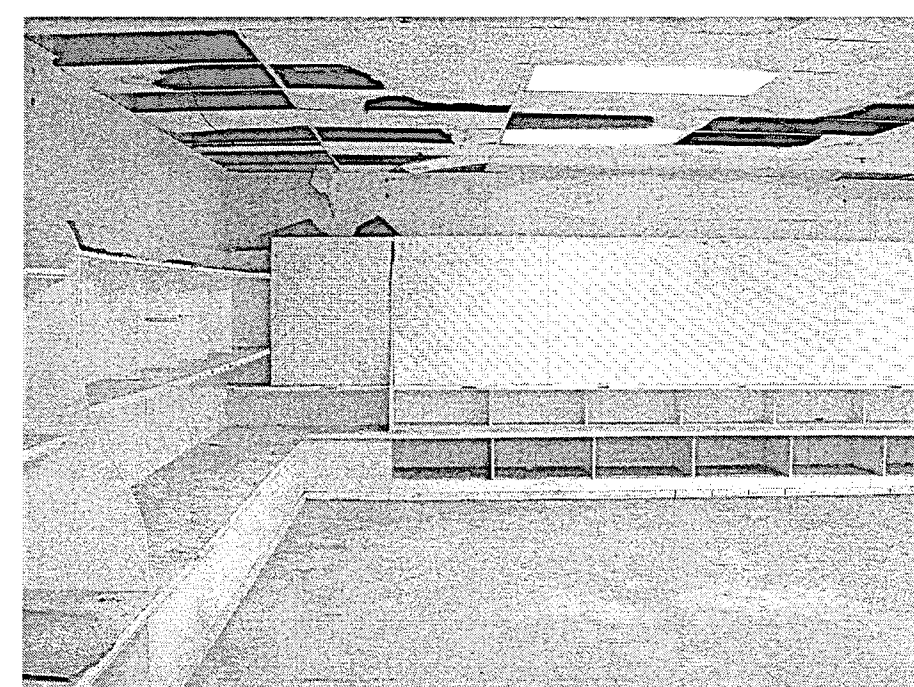
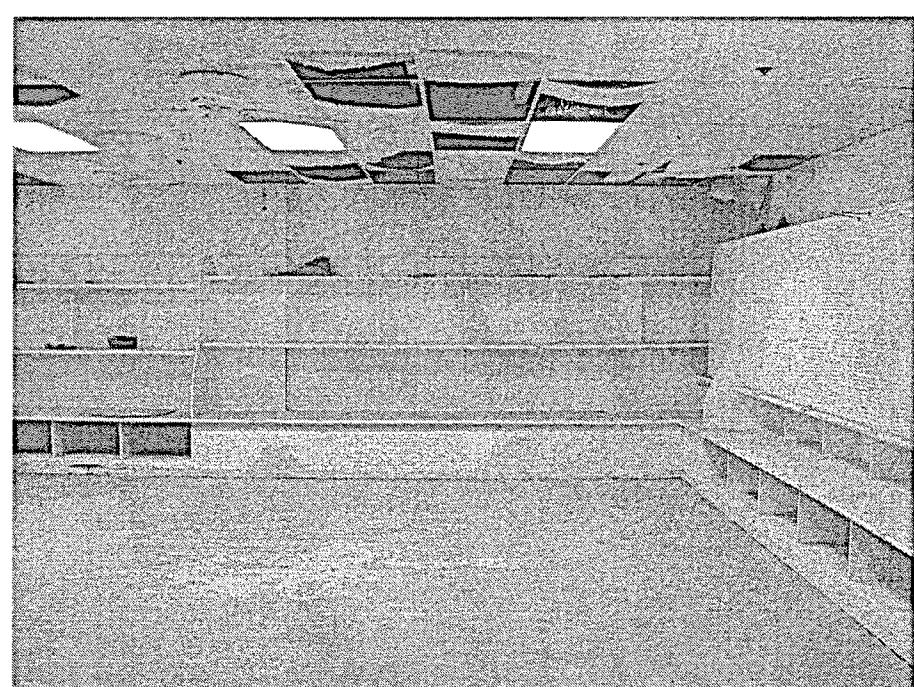
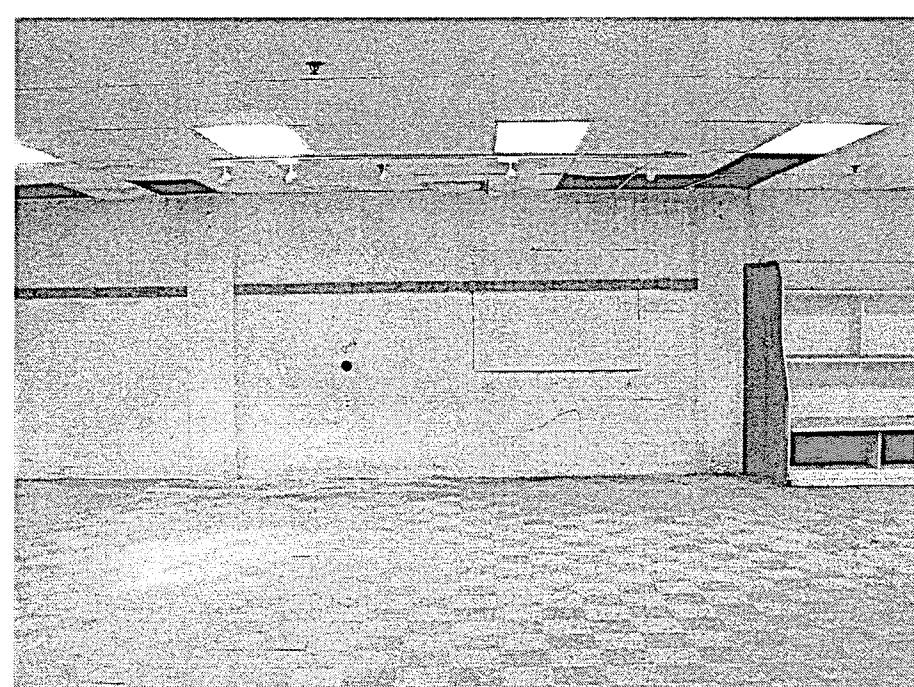
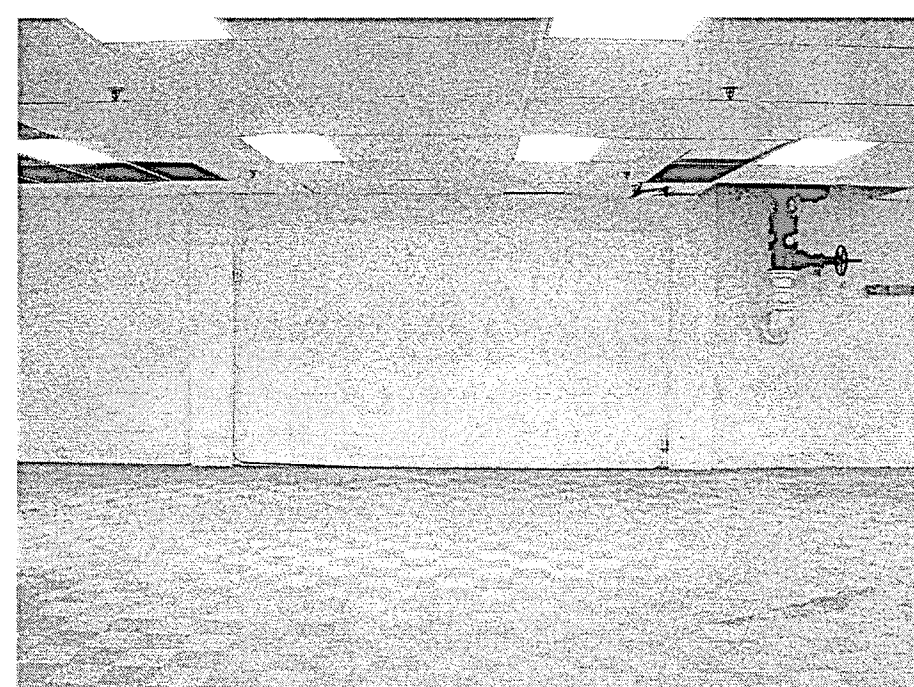
SHEET NO.

D3.3

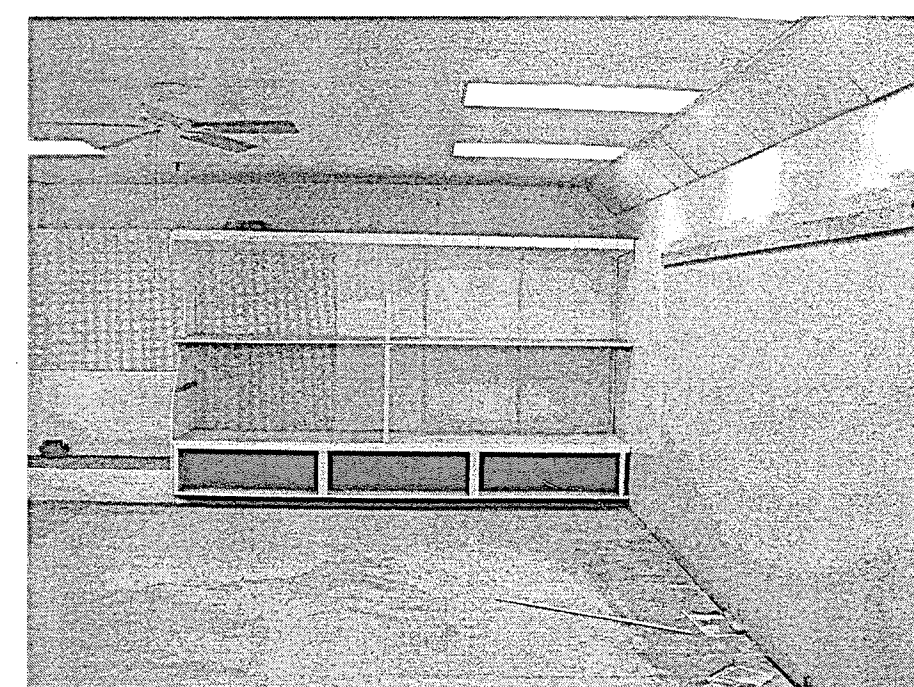
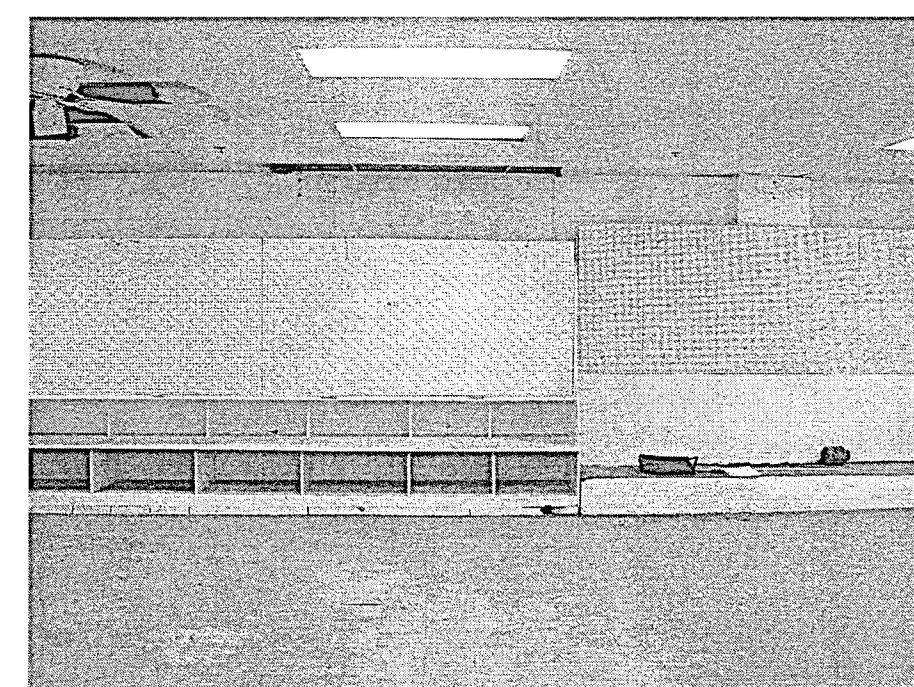
110562  
APR 07 2011  
SHEET OF



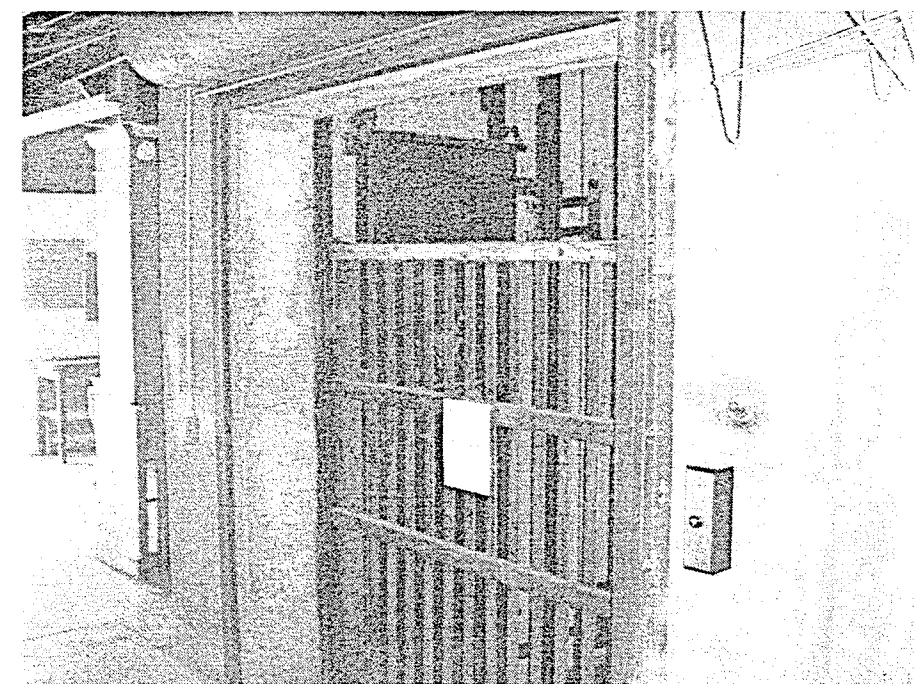
WEST INTERIOR ELEVATION 2



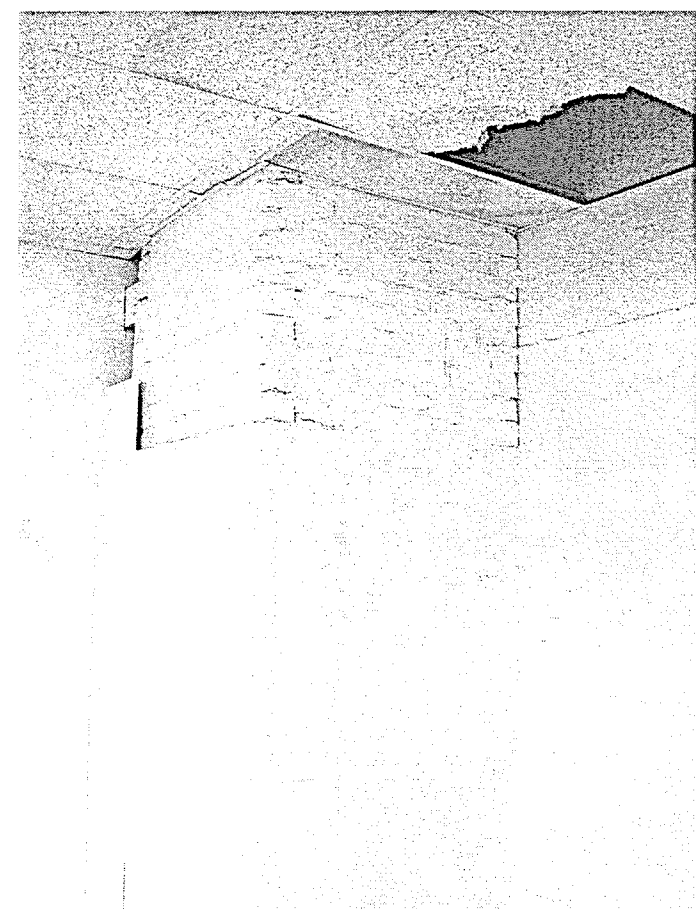
NORTH INTERIOR ELEVATION 1



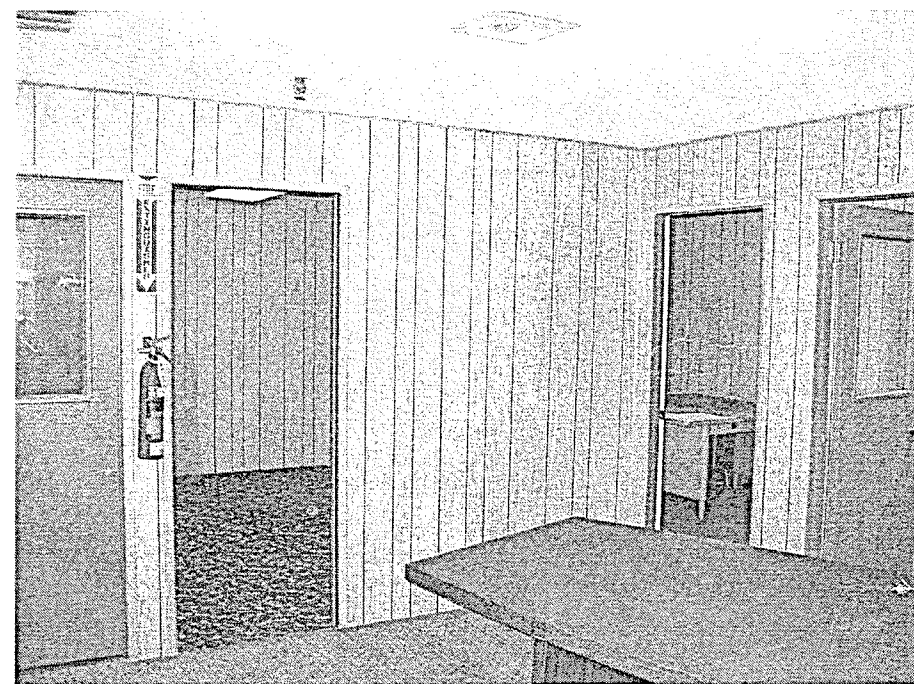
ELEVATOR PIT 7



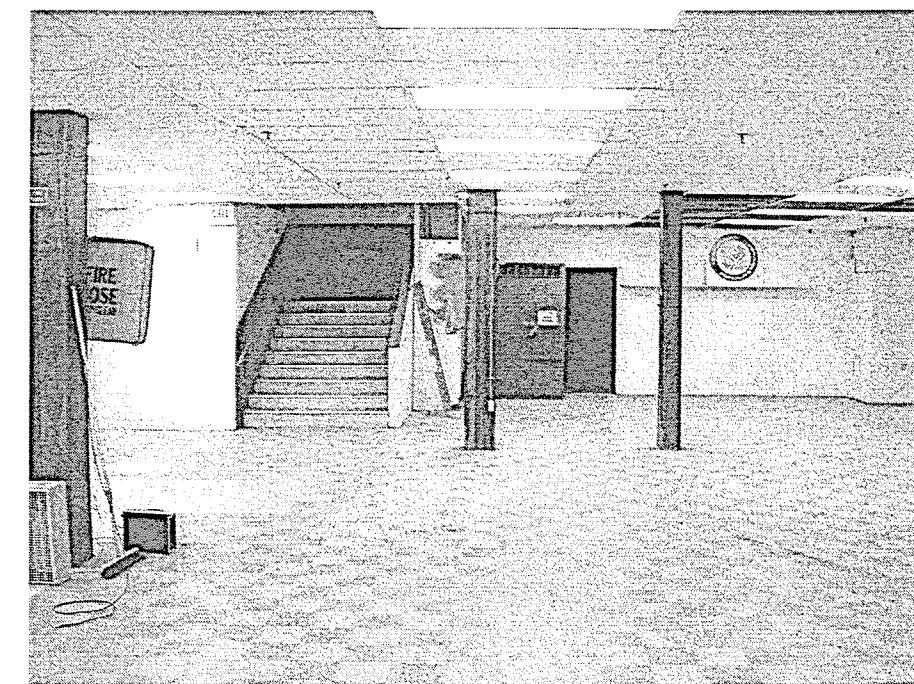
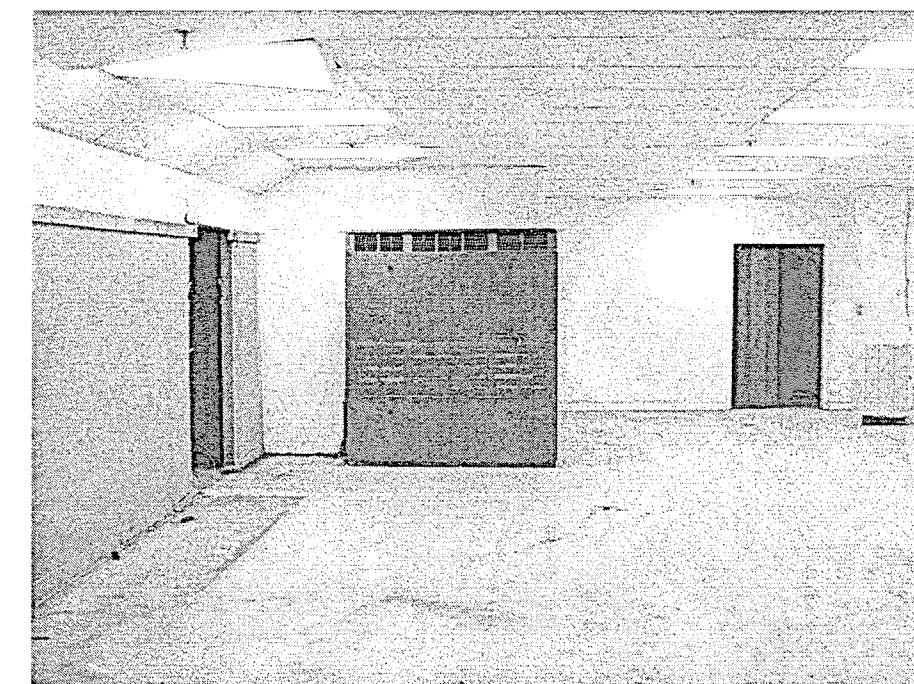
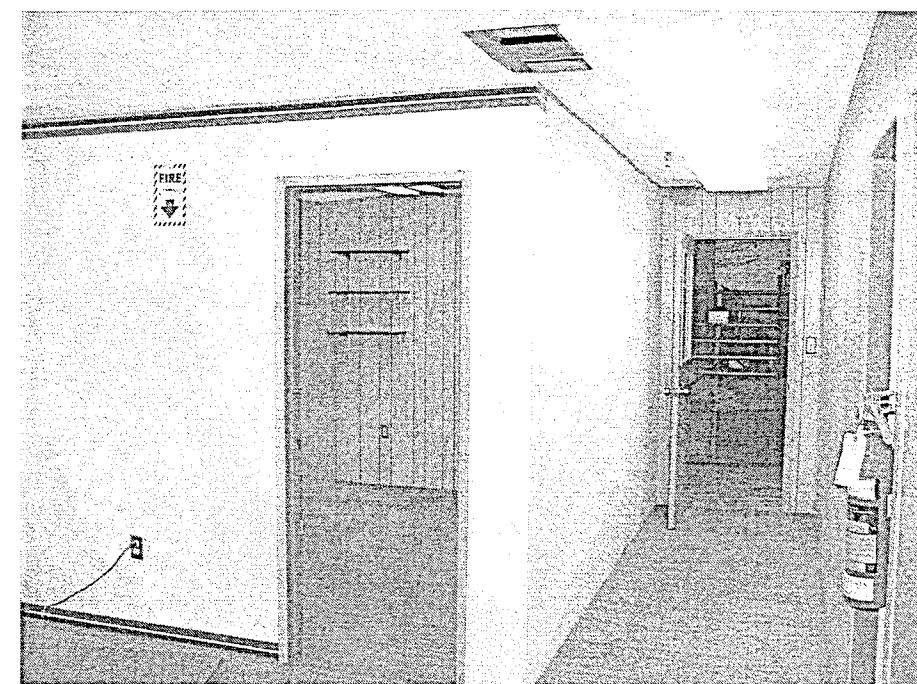
BASEMENT ELEVATOR OPENING 6



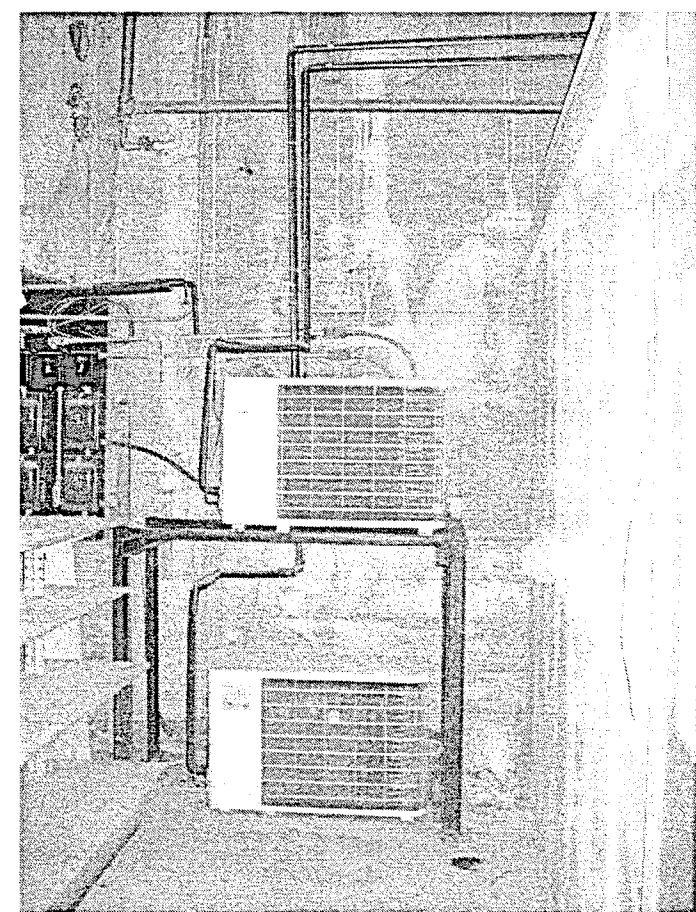
CHIMNEY 5



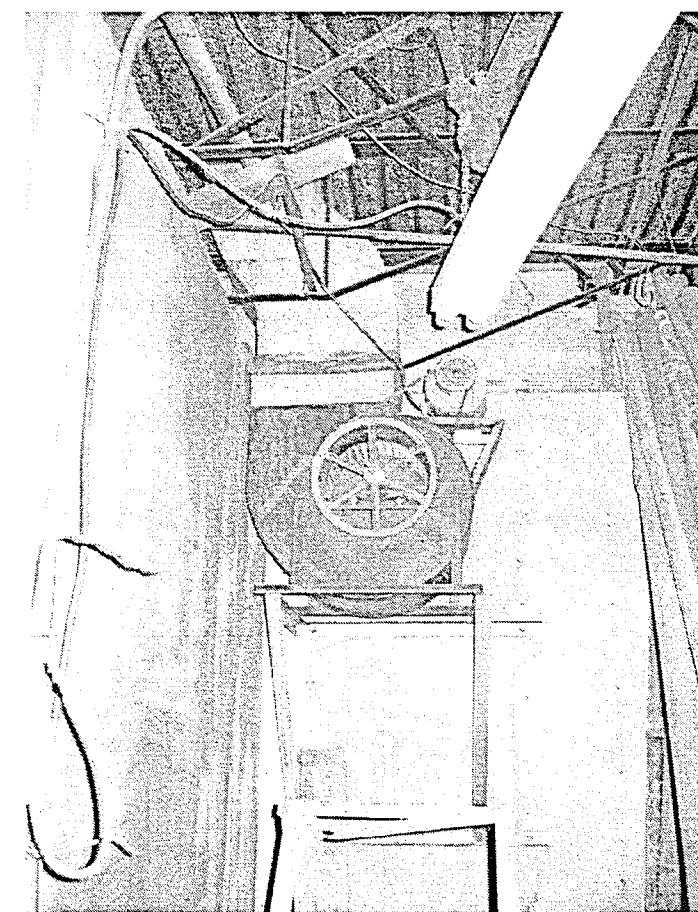
OFFICES BETWEEN GRID LINES 9-11 AND F-H 4



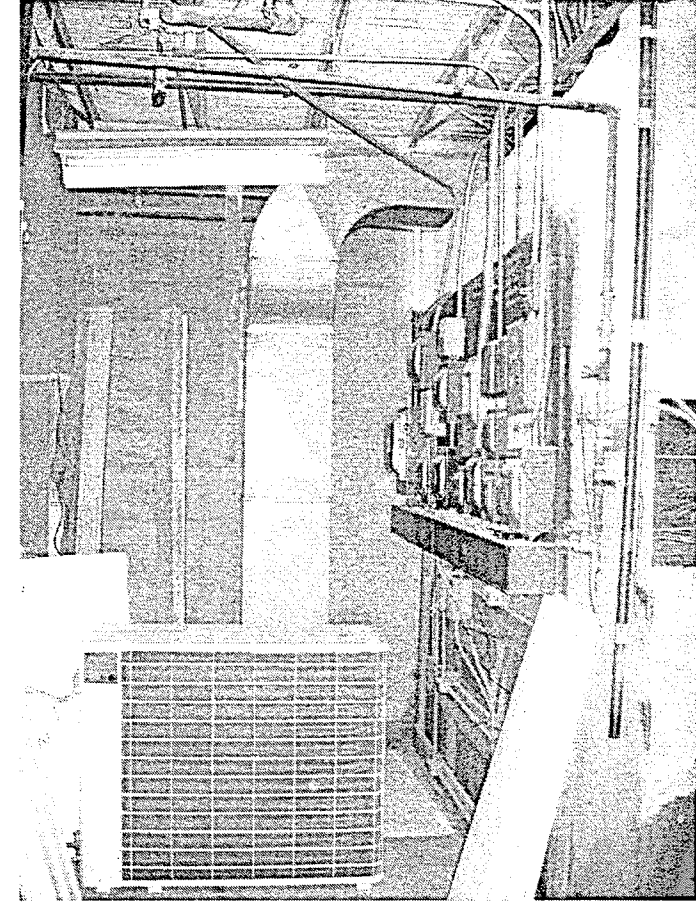
SOUTH INTERIOR ELEVATION 3



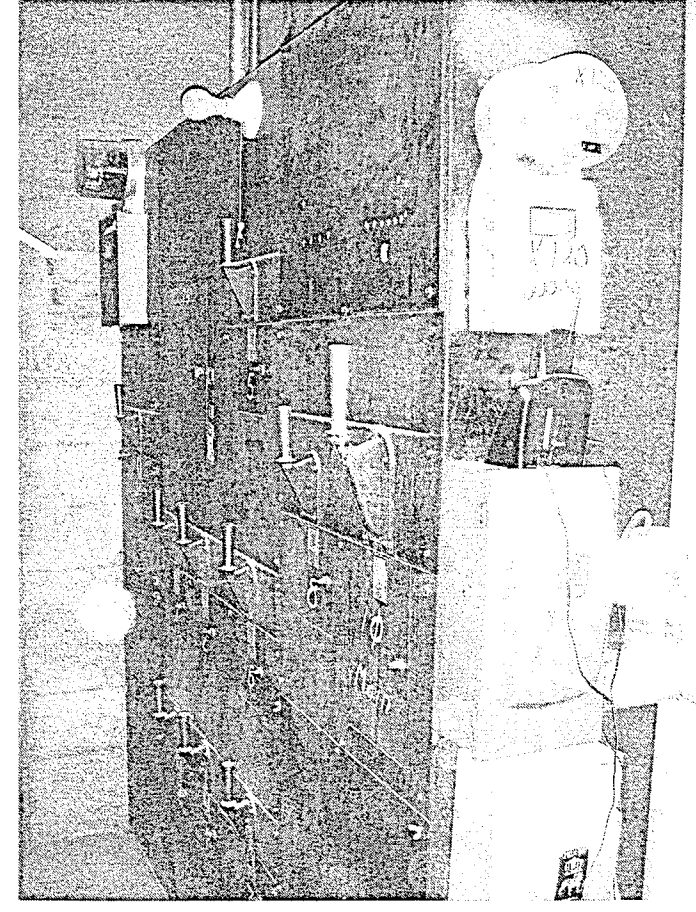
MECH. EQUIPMENT 13



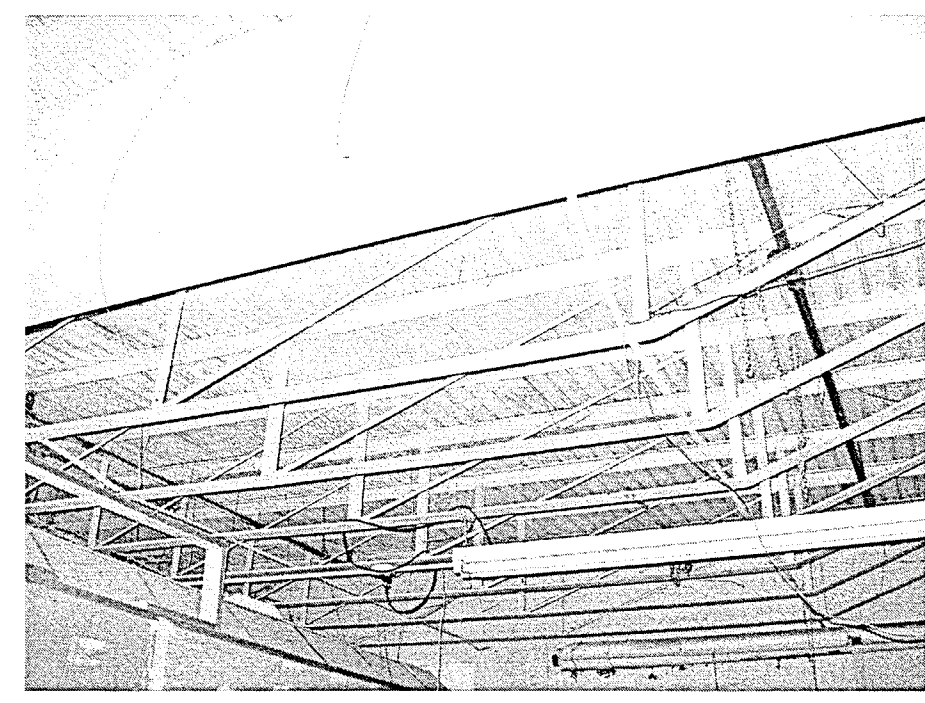
MECH. EQUIPMENT 12



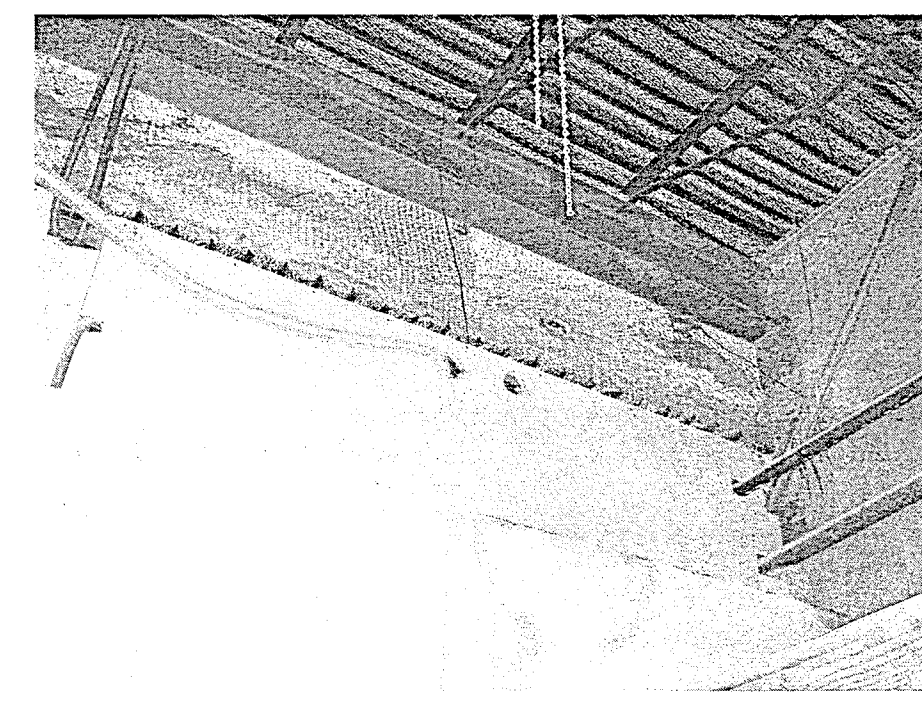
MECH. EQUIPMENT & ELECT. PANELS 11



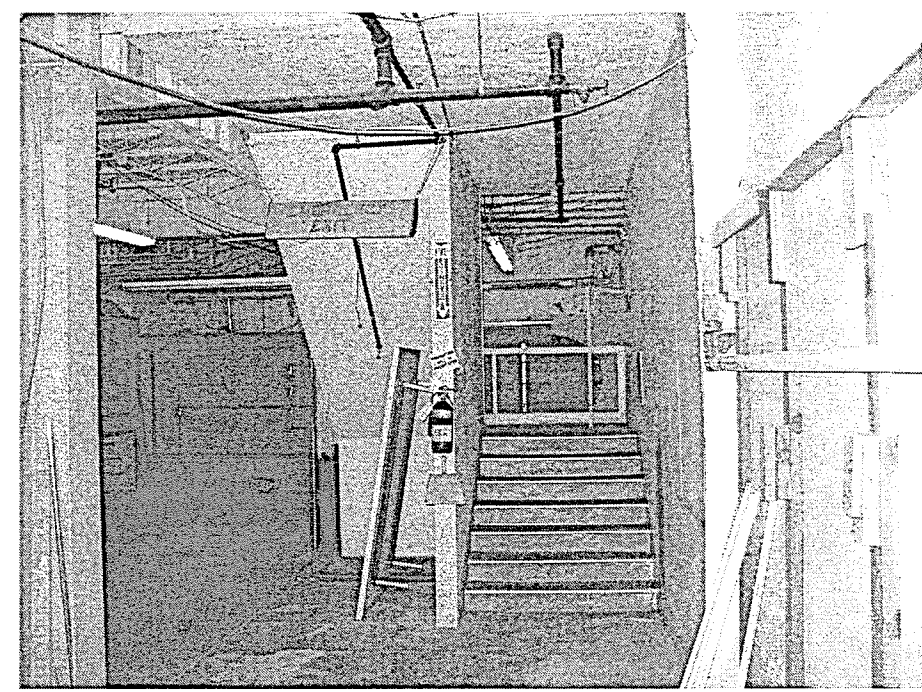
ELECT. PANELS 10



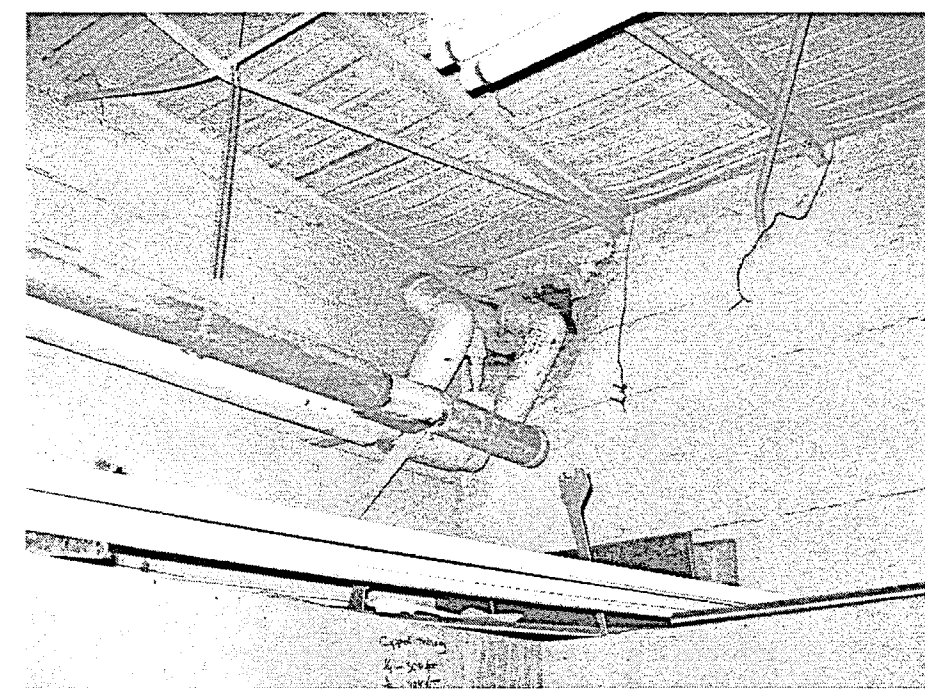
TRUSS FRAMING 9



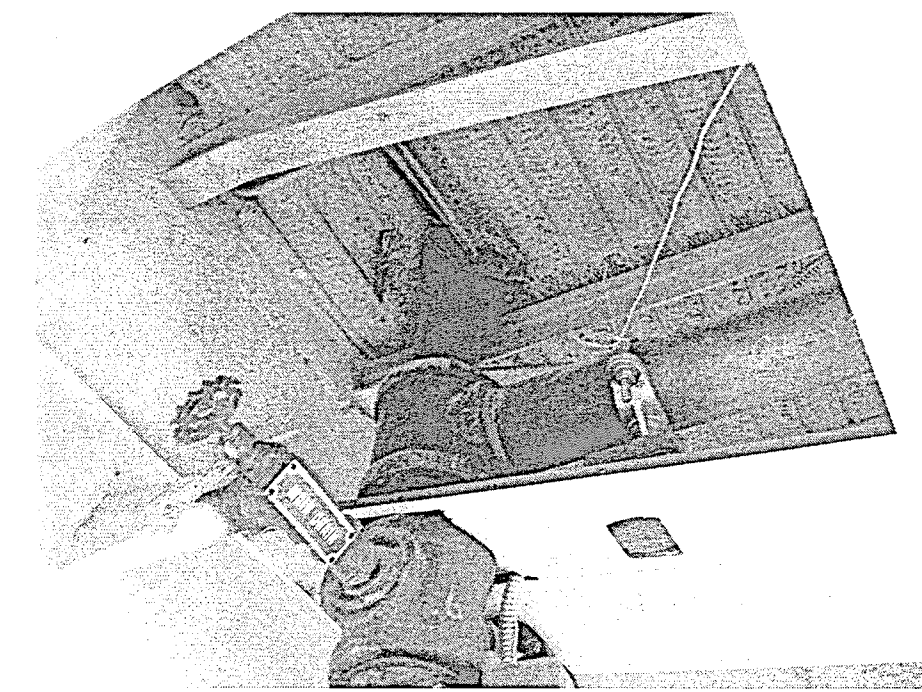
STORAGE ROOM AT GRID LINES 8 & C 8



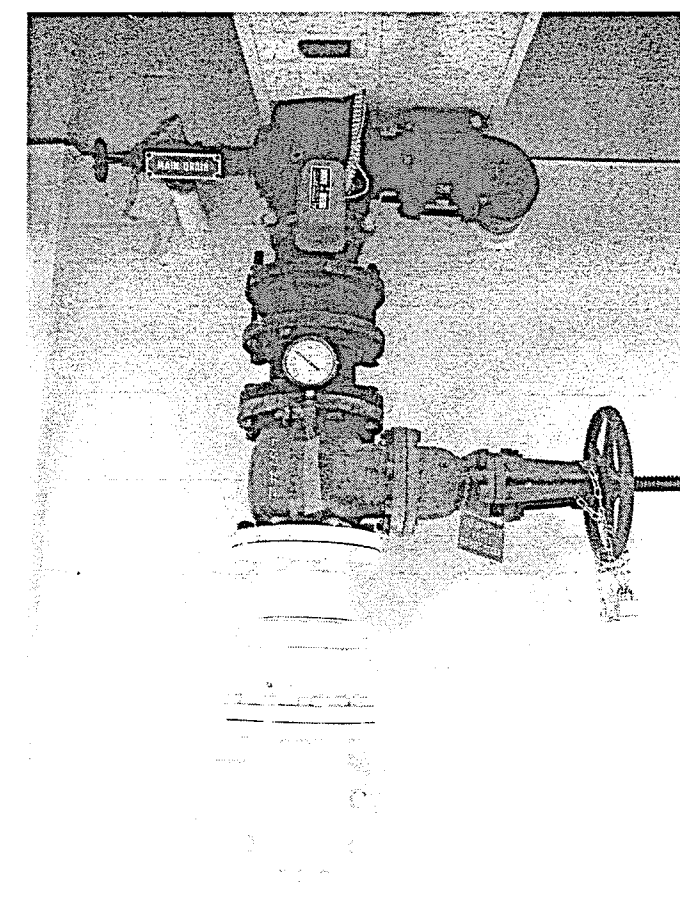
NORTHEAST STAIR 16



PIPE PENETRATION AT NORTHEAST CORNER 15

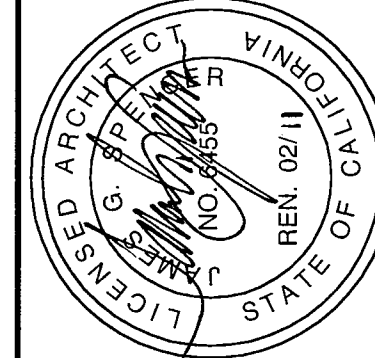


SHUT OFF VALVE FOR FIRE LINE 14



DATE 07-06-07  
JOB NO. 2007-SH95-00  
DRAWN KK  
CHECKED JT

CLAYPOOL BUILDING RECONSTRUCTION  
PALO VERDE COLLEGE, NEEDLES CENTER  
PALO VERDE COMMUNITY COLLEGE DISTRICT  
725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363  
Existing Building Photos, Basement



**SPENCER / HOSKINS associates**  
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James G. Spencer, AIA, Architect C-4455  
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(909) 971-6400  
Fax (909) 992-1321

CONSULTANT

Table with columns for REVISIONS, DATE, and NO.

EXISTING FIRE HYDRANT

207' +/-  
(NOT TO SCALE)

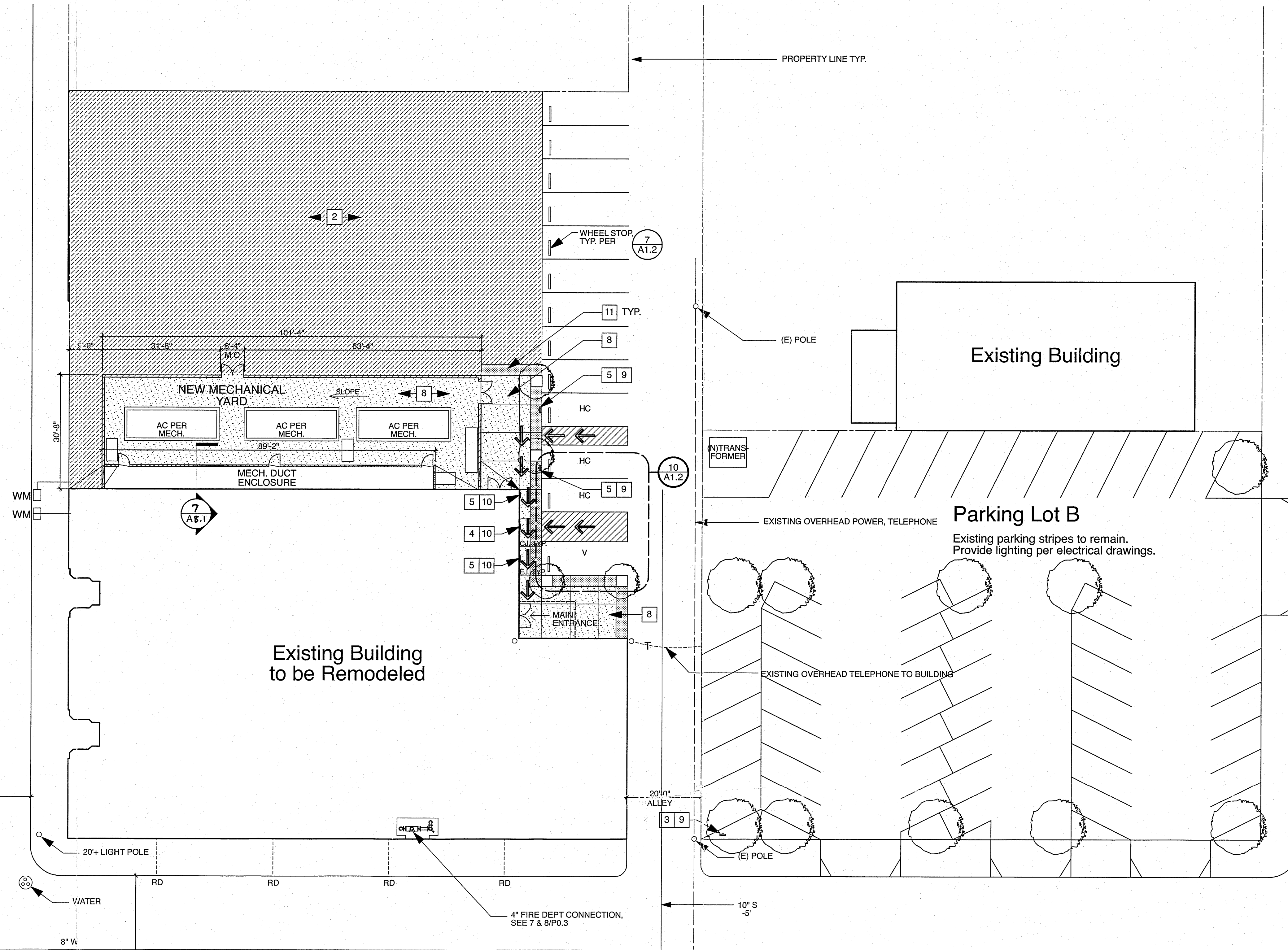
Broadway

80'-0"

W 16"

207' +/-  
(NOT TO SCALE)

EXISTING FIRE HYDRANT



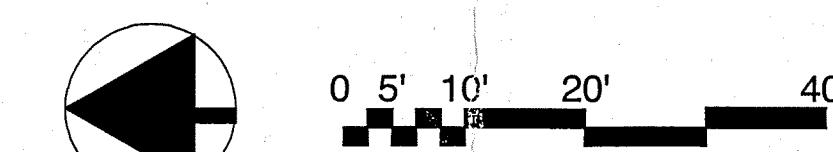
E Street

Parking Lot C

Existing parking stripes to remain.  
Provide lighting per electrical drawings.

FOR FIRE ACCESS APPROVAL  
ONLY  
DO NOT USE FOR CONSTRUCTION

SITE PLAN



GENERAL NOTES:

1. AN APPROVED WATER SUPPLY AND FIRE HYDRANT SYSTEM SHALL BE PROVIDED AS INDICATED ON THIS DRAWING AND CIVIL DRAWINGS. WATER SUPPLY SHALL BE CAPABLE OF SUPPLYING THE REQUIRED FIRE FLOW FOR FIRE PROTECTION (2001 CFC, APPENDIX III-A). SUBMIT PLANS PRIOR TO INSTALLATION SHOWING UNDERGROUND PIPING OF ON-SITE FIRE HYDRANTS. SHOW FIRE HYDRANT DETAIL DEPTH OF BURY ON PIPE, AND THRUST BLOCK DETAILS. TYPE OF PIPE TO BE C900.
2. ALL HYDRANTS SHALL MEASURE 8" X 4" X 2-1/2". BRASS OR BRONZE, CONFORMING TO CURRENT ANWA STANDARD C503, OR APPROVED EQUAL BY LOCAL AUTHORITY.
3. THE INSPECTION, HYDROSTATIC TEST AND FLUSHING OF THE HYDRANT AND SPRINKLER SYSTEM SHALL BE WITNESSED BY THE PROPER LOCAL FIRE AUTHORITY AND THE DSA INSPECTOR. NO UNDERGROUND PIPING SHALL BE COVERED WITH EARTH OR HIDDEN FROM VIEW UNTIL THE FIRE AUTHORITY AND DSA INSPECTOR HAS BEEN NOTIFIED AND GIVEN NO LESS THAN 48-HOURS IN WHICH TO INSPECT SUCH INSTALLATIONS.
4. PROVIDE AN APPROVED FIRE SPRINKLER SYSTEM. SUBMIT PLANS FOR APPROVAL PRIOR TO INSTALLATION. FIRE CODE 108.2.1.1. (DSA DEFERRED APPROVAL ITEM). THE FIRE SPRINKLER SYSTEM SHALL BE CALCULATED PER PAMPHLET #18, 130, 231 OR 231C, WHICHEVER IS APPLICABLE. THE FIRE SPRINKLER SYSTEM SHALL BE SUPERVISED AS REQUIRED IN CBC 904.3.1.
5. PATH OF TRAVEL (P.O.T.) AS INDICATED ON SITE PLAN IS A BARRIER FREE ACCESS WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" AT 12" MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL PER CBC 11338.7.4. MAXIMUM CROSS-SLOPE SHALL BE 2% TYPICAL PER CBC 11338.7.1.3. THE CONTRACTOR SHALL VERIFY THAT ALL BARRIERS ON THE INDICATED PATH OF TRAVEL HAVE BEEN REMOVED.

KEY NOTES:

- ➔ 1 PATH OF TRAVEL (P.O.T.)
- ▨ 2 GRAVEL SURFACE
- Ⓜ 3 ACCESSIBLE PARKING ENTRANCE SIGNAGE PER A1.2
- ➔ 4 DIRECTIONAL SIGNAGE PER A1.2
- Ⓜ 5 ACCESSIBLE PARKING STALL SIGNAGE PER A1.2
- Ⓜ 6 NOT USED
- Ⓜ 7 NOT USED
- Ⓜ 8 NEW CONCRETE WALKWAY, TYP. PER A1.2
- Ⓜ 9 POSTED SIGNAGE PER A1.2
- Ⓜ 10 WALL-MOUNTED SIGNAGE
- Ⓜ 11 TRUNCATED DOMES PER A1.2

LEGEND:

- ⊕ (E) F.H. EXISTING FIRE HYDRANT
- W WATER
- S SEWER
- WM WATER METER
- RD ROOF DRAIN

LOCAL FIRE AUTHORITY

ACCESS ROADS & GATE ENTRANCES PER TITLE 19, CALIFORNIA CODE OF REGULATIONS SUBCHAPTER 1, ARTICLES 3.05 ACCESS ROADS AND 3.16 GATE ENTRANCES TO SCHOOL GROUNDS  
 FIRE FLOW & HYDRANT LOCATION & DISTRIBUTION PER CALIF. FIRE CODE - APPENDIX III-AA FIRE FLOW AND APPENDIX III-BB, FIRE HYDRANT LOCATION & DISTRIBUTION. APPENDICES FROM 2001 CALIFORNIA FIRE CODE, VOLUME 1  
 JURISDICTION: *San Bernardino County Fire*  
 RANK / TITLE: *Planning & Engineering Supervisor*  
 PHONE: *909-592-5160* DATE: *6-5-07*  
 SIGNATURE: *[Signature]*

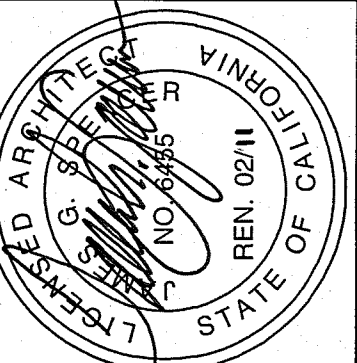
1. WE WILL NEED A FIRE ALLOW LETTER FROM WATER COMPANY  
 2. WE WOULD LIKE TO REVIEW SPECIFICATION PLANS

RECEIVED 110562  
 MAY 31 2007  
 S.B. CO. FIRE DEPT.

CONSULTANT

NO. DATE

SPENCER / HOSKINS associates  
 Architecture & Planning  
 655 Overland Court, Suite 100  
 San Dimas, California 91773-1718  
 (909) 450-2180  
 Fax: (909) 592-6153



CLAYPOOL BUILDING RECONSTRUCTION  
 PALO VERDE COLLEGE, NEEDLES CENTER  
 PALO VERDE COMMUNITY COLLEGE DISTRICT  
 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363  
 FIRE ACCESS PLAN (FOR REFERENCE ONLY)

DATE: 05-22-07  
 JOB NO.: 2007-SHA95-00  
 DRAWN: KK  
 CHECKED: JVT

SHEET NO.

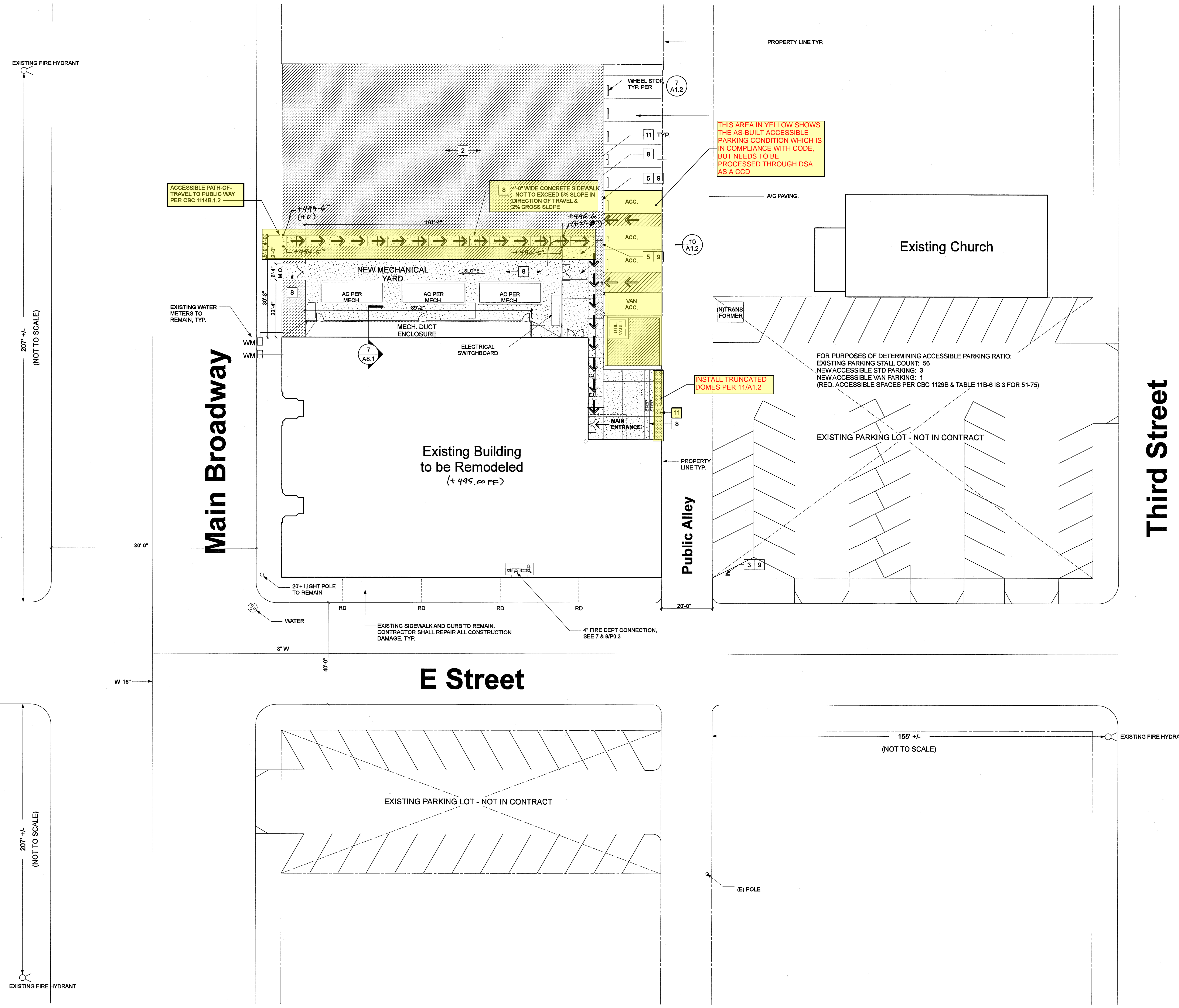
A0.1

SHEET OF

24865

2-1865





**GENERAL NOTES:**

1. AN APPROVED WATER SUPPLY AND FIRE HYDRANT SYSTEM SHALL BE PROVIDED AS INDICATED ON THIS DRAWING AND CIVIL DRAWINGS. WATER SUPPLY SHALL BE CAPABLE OF SUPPLYING THE REQUIRED FIRE FLOW FOR FIRE PROTECTION (2001 CFC, APPENDIX IIIA). SUBMIT PLANS PRIOR TO INSTALLATION SHOWING UNDERGROUND PIPING OF ON-SITE FIRE HYDRANTS. SHOW FIRE HYDRANT DETAIL, DEPTH OF BURY ON PIPE, AND THRUST BLOCK DETAILS. TYPE OF PIPE TO BE C900.
2. ALL HYDRANTS SHALL MEASURE 6" X 4" X 2-1/2". BRASS OR BRONZE, CONFORMING TO CURRENT ANWA STANDARD C503, OR APPROVED EQUAL BY LOCAL AUTHORITY.
3. THE INSPECTION, HYDROSTATIC TEST AND FLUSHING OF THE HYDRANT AND SPRINKLER SYSTEM SHALL BE WITNESSED BY THE PROPER LOCAL FIRE AUTHORITY AND THE DSA INSPECTOR. NO UNDERGROUND PIPING SHALL BE COVERED WITH EARTH OR HIDDEN FROM VIEW UNTIL THE FIRE AUTHORITY AND DSA INSPECTOR HAS BEEN NOTIFIED AND GIVEN NO LESS THAN 48 HOURS IN WHICH TO INSPECT SUCH INSTALLATIONS.
4. PROVIDE AN APPROVED FIRE SPRINKLER SYSTEM. SUBMIT PLANS FOR APPROVAL PRIOR TO INSTALLATION. FIRE CODE 108.2.1.1. (DSA DEFERRED APPROVAL ITEM). THE FIRE SPRINKLER SYSTEM SHALL BE CALCULATED PER PAMPHLET #13, 13D, 231 OR 231C, WHICHEVER IS APPLICABLE. THE FIRE SPRINKLER SYSTEM SHALL BE SUPERVISED AS REQUIRED IN CBC 904.3.1.
5. PATH OF TRAVEL (P.O.T.) AS INDICATED ON SITE PLAN IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AND IS AT LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM & SMOOTH. GROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. (POT) SHALL MAINTAIN FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (1133B.8.2) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" (1133B.8.6). CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT, AND PATH OF TRAVEL COMPLIES WITH CBC 1133B.
6. NO SURVEY IS PROVIDED FOR THE SITE. SITE PLAN RELIED ON OLD DRAWINGS SUPPLIED BY OWNER.

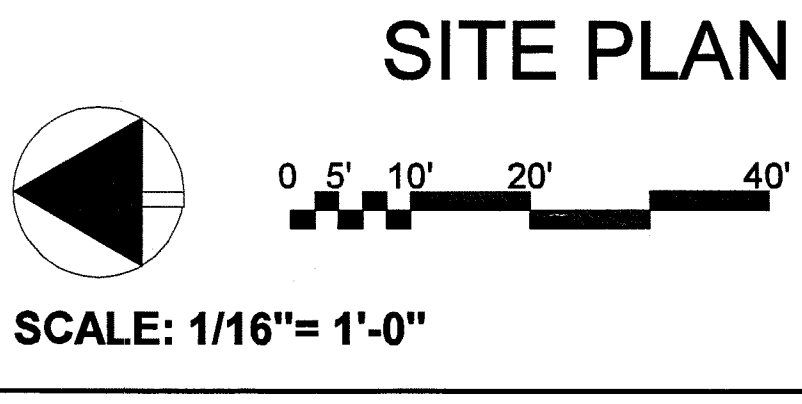
- KEY NOTES:**
- ➔ 1 PATH OF TRAVEL (P.O.T.)
  - 2 2" GRAVEL SURFACE
  - 3 ACCESSIBLE PARKING ENTRANCE SIGNAGE PER 2 A1.2
  - 4 DIRECTIONAL SIGNAGE PER 1 A1.2
  - 5 ACCESSIBLE PARKING STALL SIGNAGE PER 3 A1.2
  - 6 NOT USED
  - 7 NOT USED
  - 8 NEW CONCRETE WALKWAY, TYP. PER 8 A1.2
  - 9 POSTED SIGNAGE PER 4 A1.2
  - 10 WALL-MOUNTED SIGNAGE
  - 11 TRUNCATED DOMES PER 11 A1.2

- LEGEND:**
- (E) F.H. EXISTING FIRE HYDRANT
  - W WATER
  - S SEWER
  - WM WATER METER
  - RD ROOF DRAIN
  - CJ NEW CONTRACTION JOINTS OR EXPANSION JOINTS IN SITE CONCRETE PAVING PER (10' X 10' MAX., UNLESS OTHERWISE DIMENSIONED ON SITE PLANS)
  - EJ

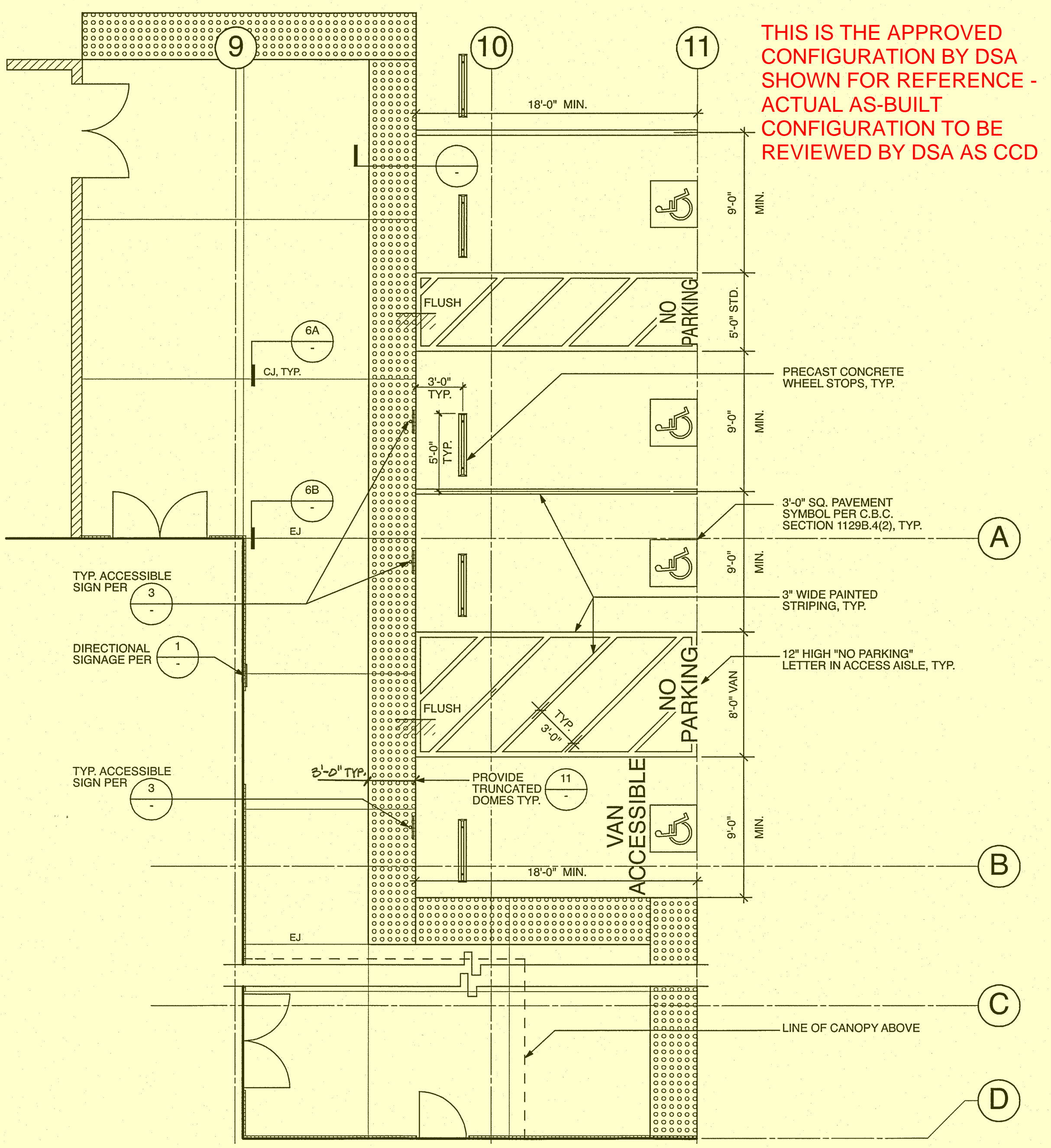
**FOR PURPOSES OF DETERMINING ACCESSIBLE PARKING RATIO:**  
 EXISTING PARKING STALL COUNT: 55  
 NEW ACCESSIBLE STD PARKING: 3  
 NEW ACCESSIBLE VAN PARKING: 1  
 (REQ. ACCESSIBLE SPACES PER CBC 1129B & TABLE 11B-6 IS 3 FOR 51-75)

**SPENCER / HOSKINS associates**  
 Architecture & Planning  
 Jay R. Title, AIA Architect C-12955  
 James G. Spencer, AIA Architect C-6455  
 Stephen R. Hoskins, AIA Architect C-7723  
 955 Overland Court, Suite 100  
 San Dimas, California 91775-1718  
 (909) 971-6400  
 Fax (909) 592-1321

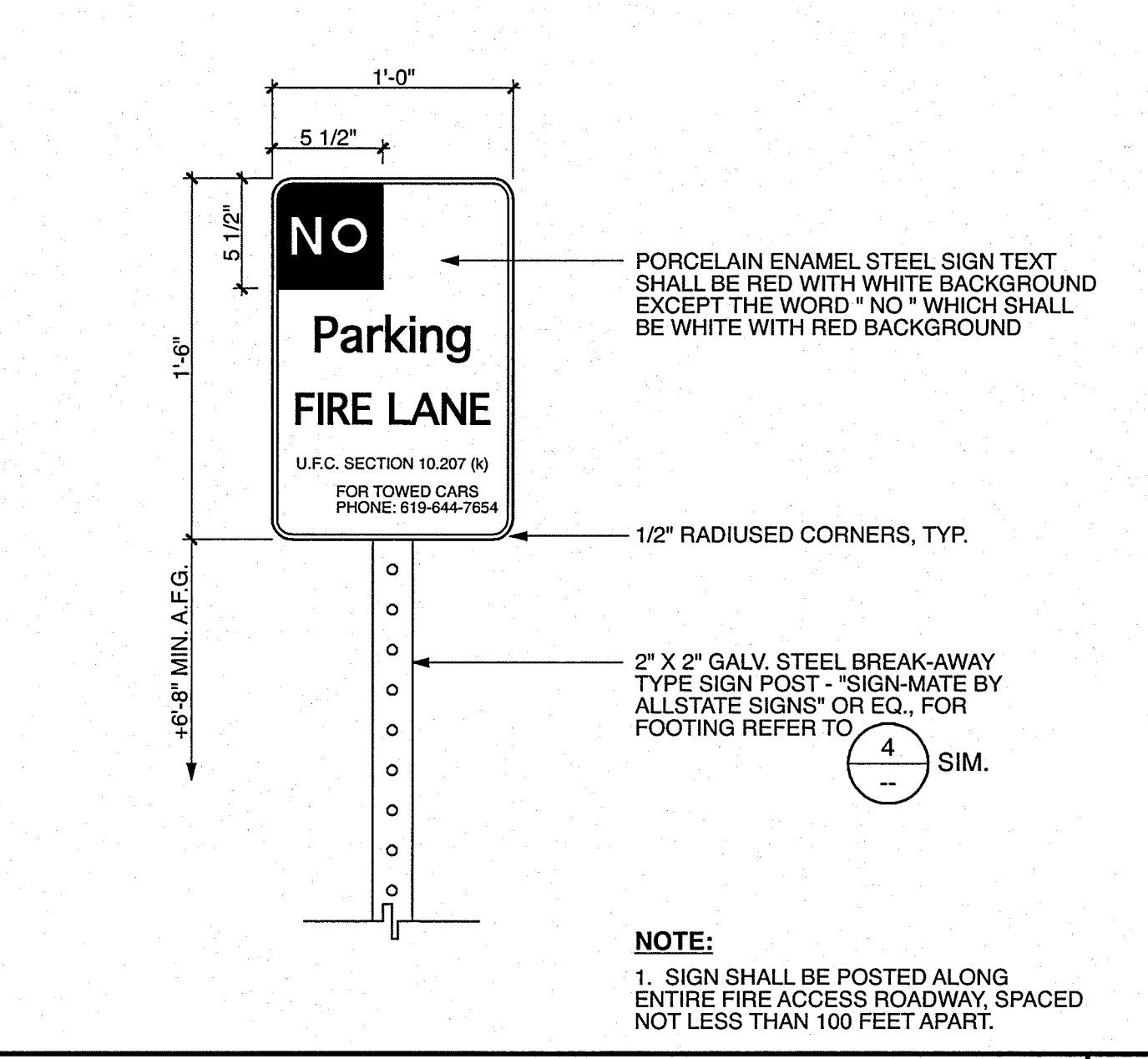
**CLAYPOOL BUILDING RECONSTRUCTION**  
**PALO VERDE COLLEGE, NEEDLES CENTER**  
 PALO VERDE COMMUNITY COLLEGE DISTRICT  
 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363



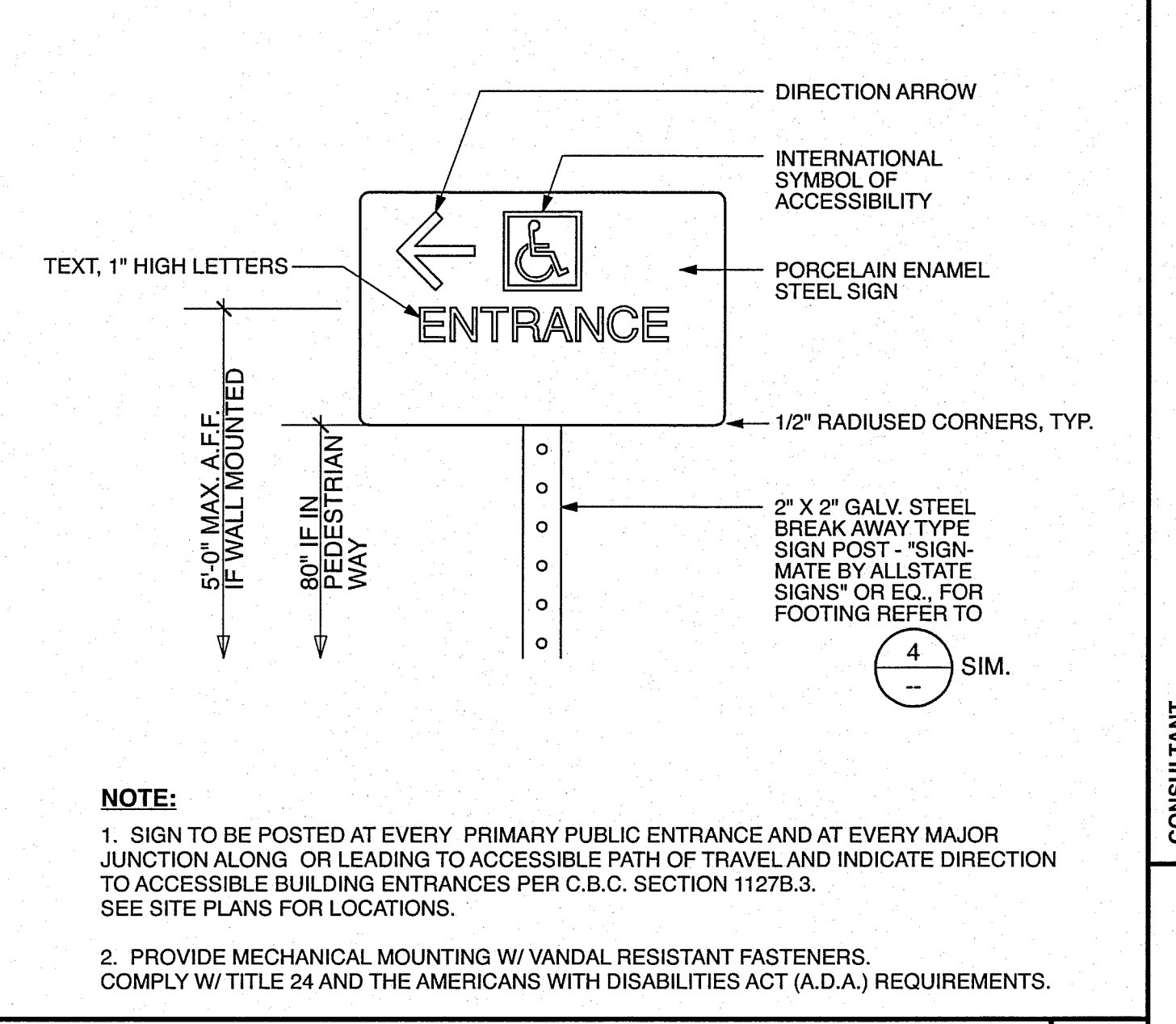
DATE	07-06-07	CHECKED	JVT
JOB NO.	2007-SH95-00	DRAWN	KK
SHEET NO.		DATE	
A1.1		APR 17 2011	
SHEET		OF	
SHEET		OF	



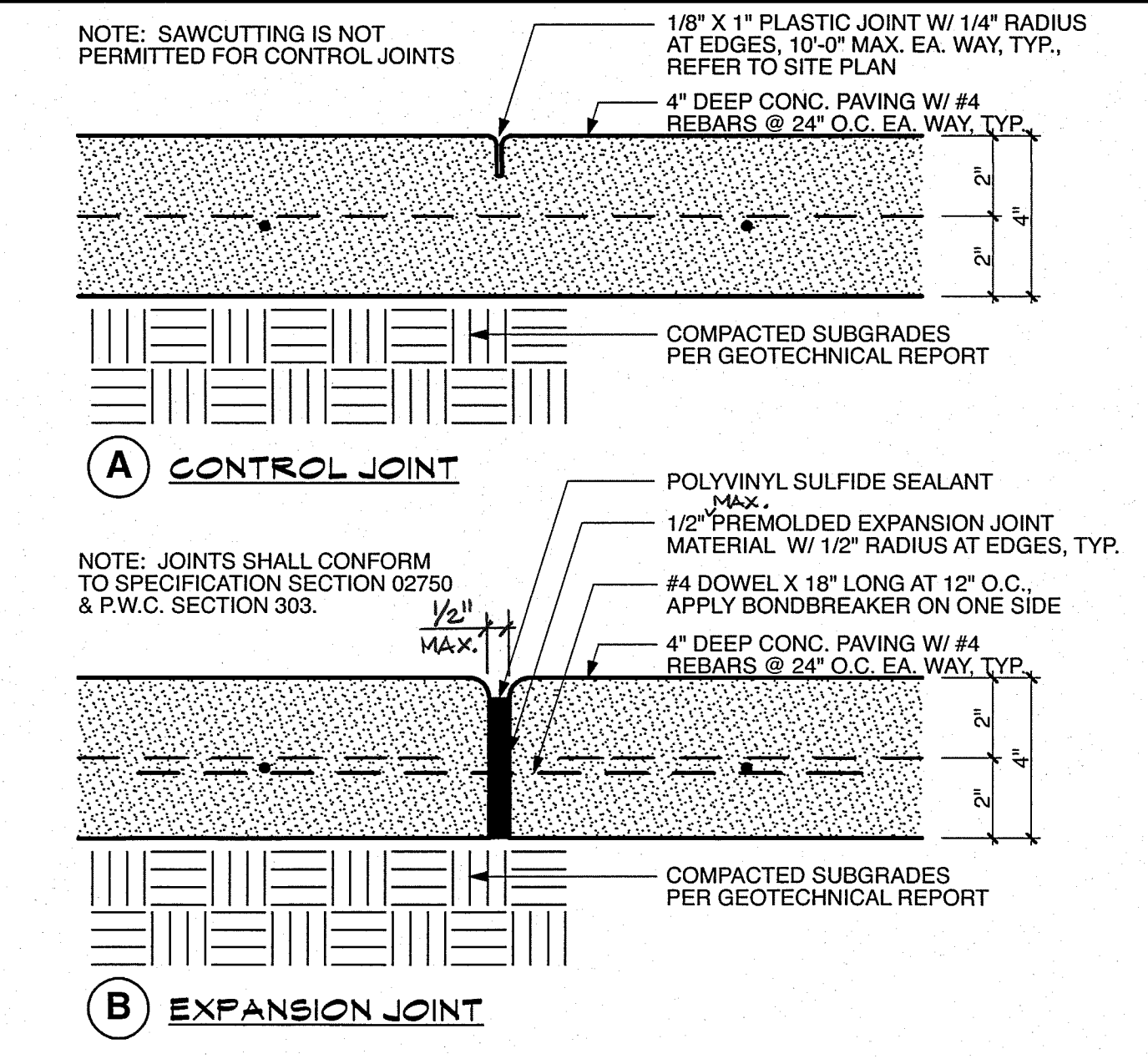
THIS IS THE APPROVED CONFIGURATION BY DSA SHOWN FOR REFERENCE - ACTUAL AS-BUILT CONFIGURATION TO BE REVIEWED BY DSA AS CCD



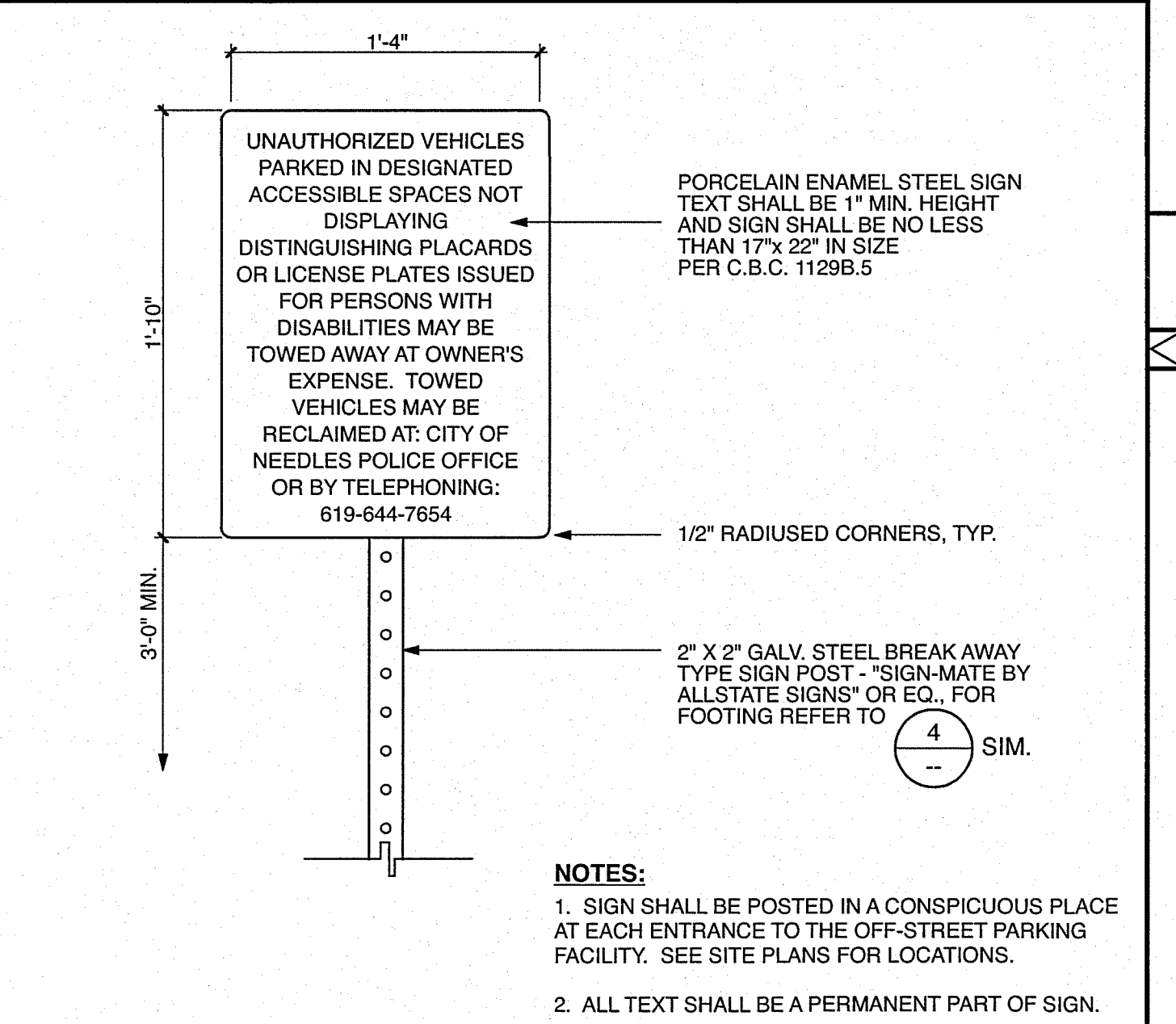
TYP. FIRE ACCESS LANE SIGNAGE 5



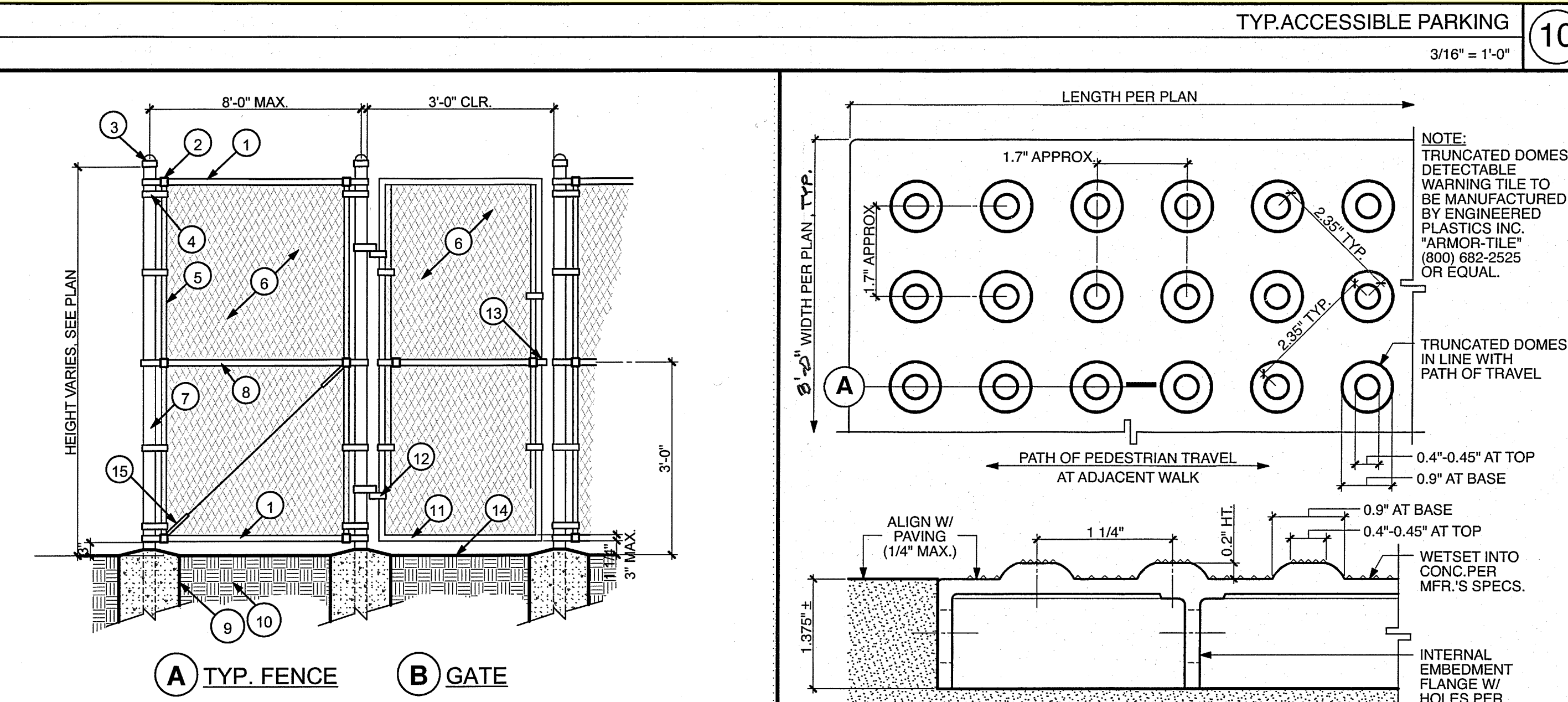
TYP. DIRECTIONAL SIGNAGE 1



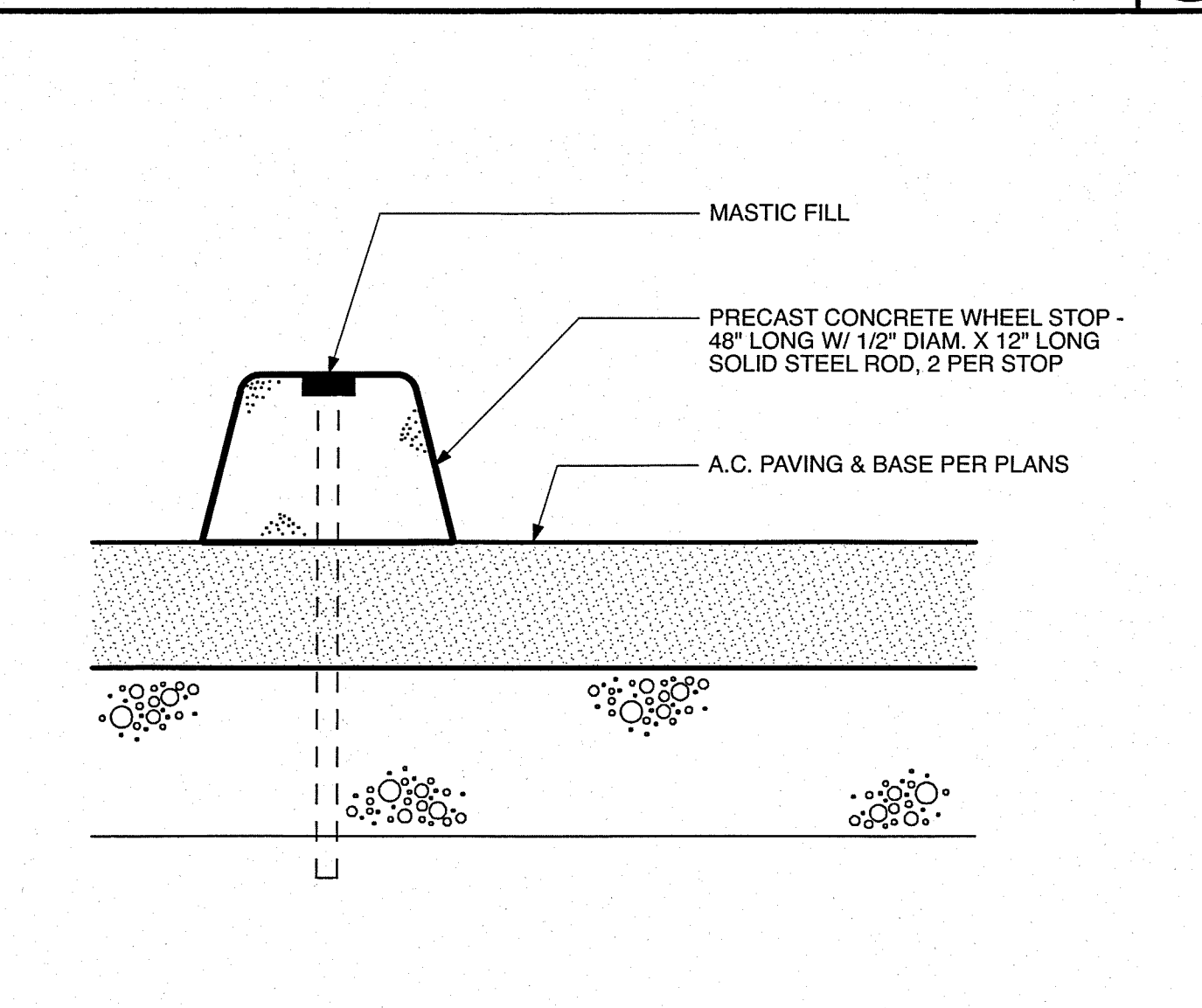
TYP. CONTROL AND EXPANSION JOINTS 6



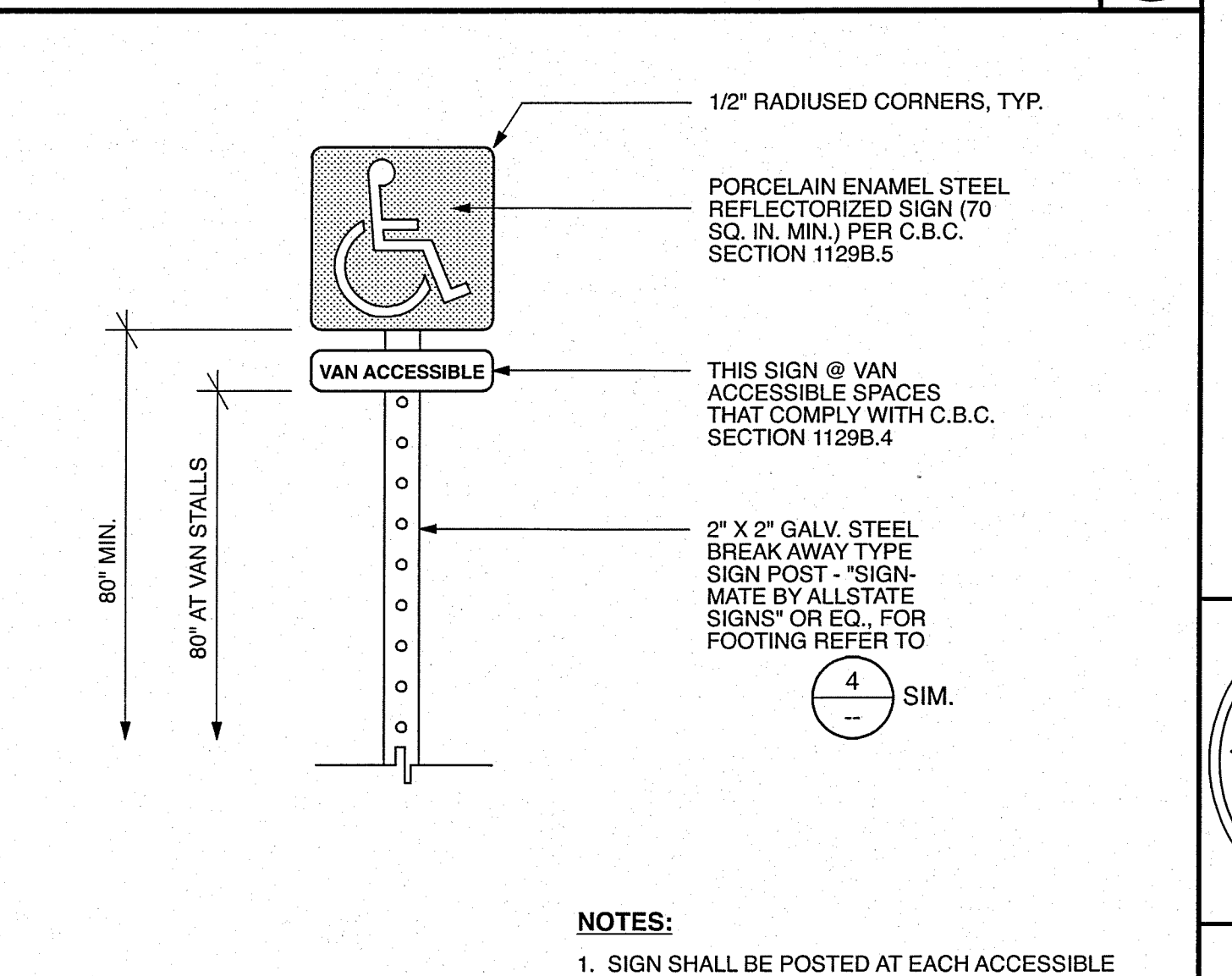
TYP. ACCESSIBLE PARKING ENTRANCE SIGNAGE 2



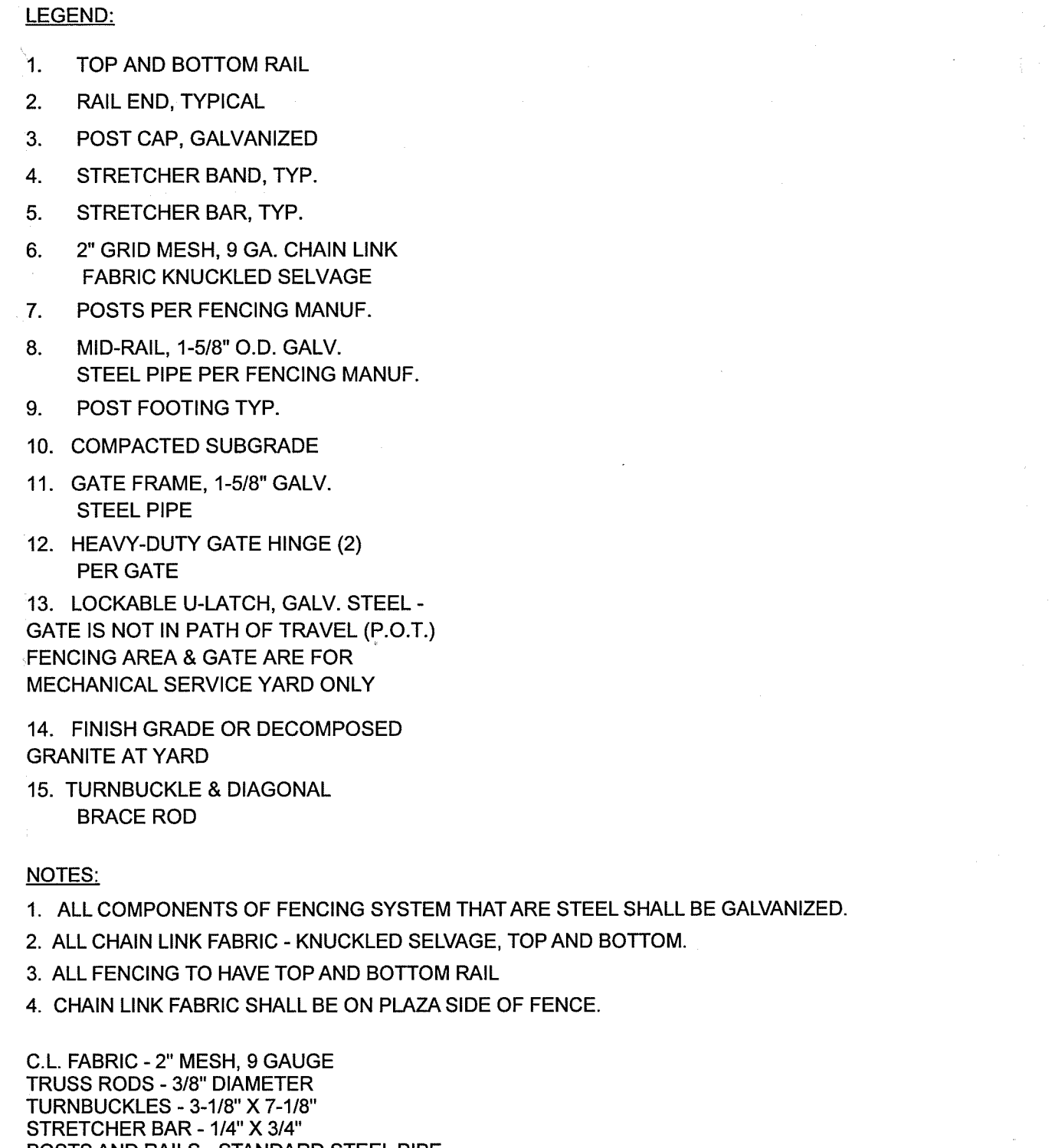
TYP. ACCESSIBLE PARKING 10



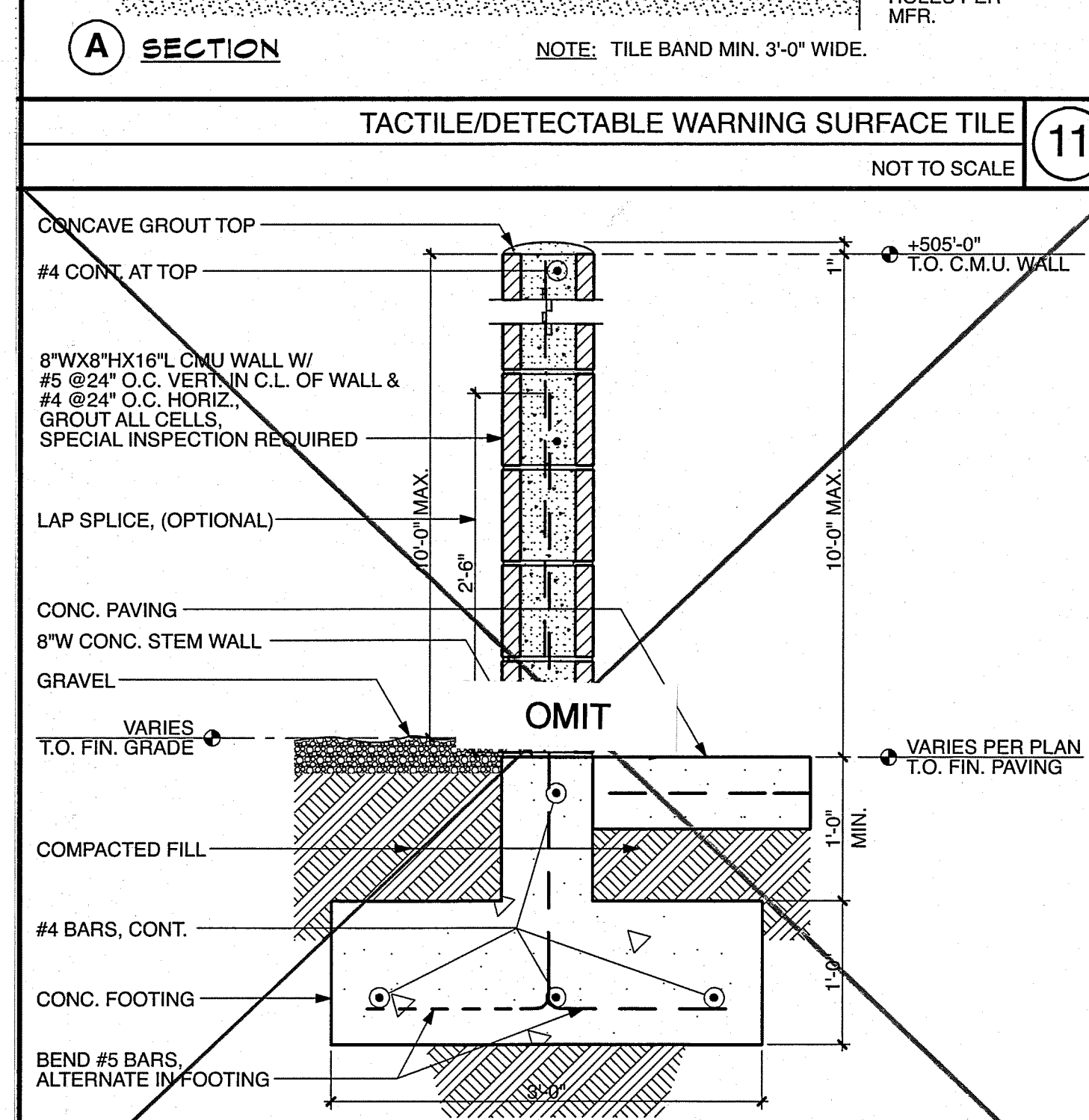
TYP. PRECAST CONC. WHEEL STOP 7



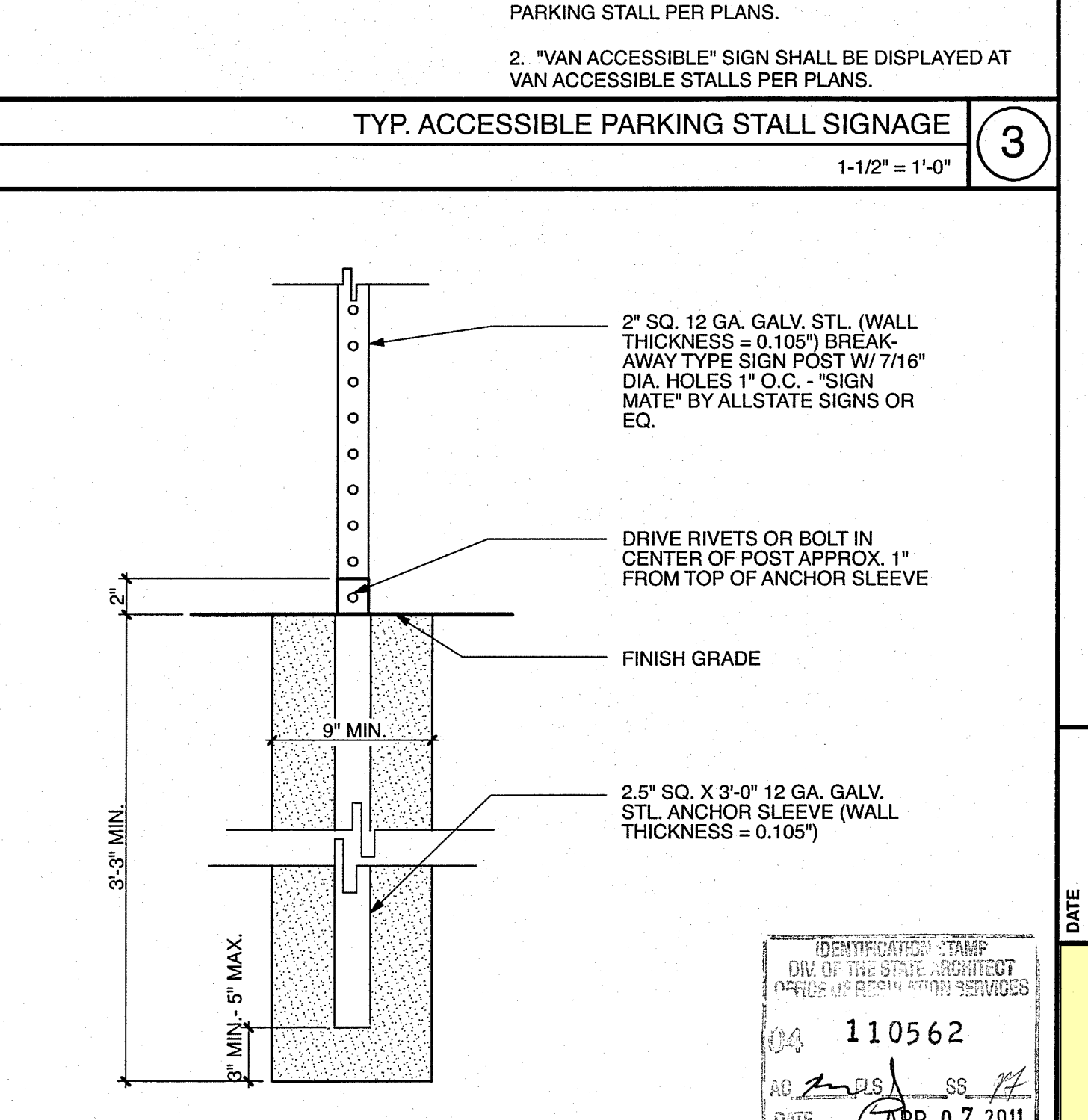
TYP. ACCESSIBLE PARKING STALL SIGNAGE 3



TYP. EXTERIOR DETAILS 12



TYP. CONCRETE SLAB TO ASPHALT PAVING WITH EXPANSION JOINT 8



SIGNAGE BASE/FOOTING 4



CHAIN LINK FENCE AT MECHANICAL YARD & GATE (NOT IN P.O.T.) 13

- LEGEND:
- TOP AND BOTTOM RAIL
  - RAIL END, TYPICAL
  - POST CAP, GALVANIZED
  - STRETCHER BAND, TYP.
  - STRETCHER BAR, TYP.
  - 2" GRID MESH, 9 GA. CHAIN LINK FABRIC KNUCKLED SELVAGE
  - POSTS PER FENCING MANUF.
  - MID-RAIL, 1-5/8" O.D. GALV. STEEL PIPE PER FENCING MANUF.
  - POST FOOTING TYP.
  - COMPACTED SUBGRADE
  - GATE FRAME, 1-5/8" GALV. STEEL PIPE
  - HEAVY-DUTY GATE HINGE (2) PER GATE
  - LOCKABLE U-LATCH, GALV. STEEL - GATE IS NOT IN PATH OF TRAVEL (P.O.T.) FENCING AREA & GATE ARE FOR MECHANICAL SERVICE YARD ONLY
  - FINISH GRADE OR DECOMPOSED GRANITE AT YARD
  - TURNBUCKLE & DIAGONAL BRACE ROD
- NOTES:
- ALL COMPONENTS OF FENCING SYSTEM THAT ARE STEEL SHALL BE GALVANIZED.
  - ALL CHAIN LINK FABRIC - KNUCKLED SELVAGE, TOP AND BOTTOM.
  - ALL FENCING TO HAVE TOP AND BOTTOM RAIL
  - CHAIN LINK FABRIC SHALL BE ON PLAZA SIDE OF FENCE.
- C.L. FABRIC - 2" MESH, 9 GAUGE TRUSS RODS - 3/8" DIAMETER TURNBUCKLES - 3/16" X 7-1/8" STRETCHER BAR - 1/4" X 3/4" POSTS AND RAILS - STANDARD STEEL PIPE

SPENCER / HOSKINS associates  
 Architecture & Planning

CLAYPOOL BUILDING RECONSTRUCTION  
 PALO VERDE COLLEGE, NEEDLES CENTER

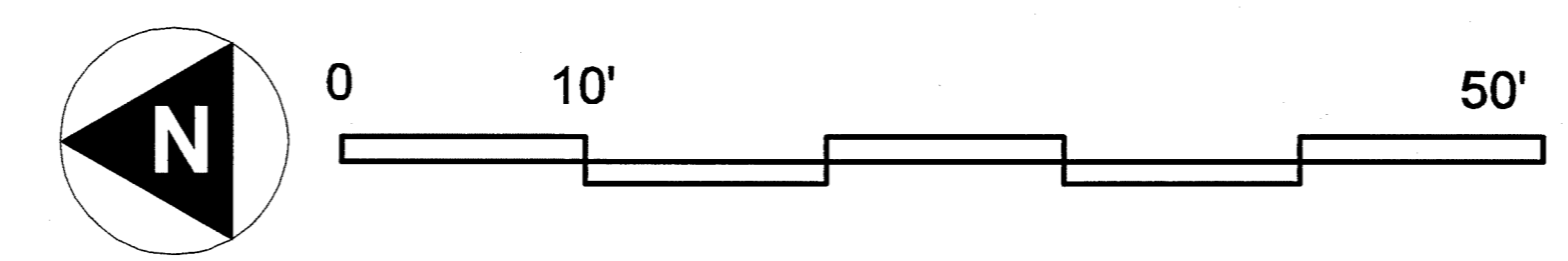
DATE: 07-08-07  
 JOB NO.: 2007-SH95-00  
 DRAWN: YCL  
 CHECKED: JVT

110562  
 APR 07 2011

SHEET NO. A1.2  
 SHEET OF



# BASEMENT FLOOR PLAN



**SIGNAGE LEGEND:**

RIA	ROOM IDENTIFICATION SIGN TYPE A PER
R-B	BUILDING NAME PER
RDS-A	REST ROOM DOOR SIGN PER
RDS-B	REST ROOM DOOR SIGN PER
RDS-C	REST ROOM DOOR SIGN PER
RWS-A	REST ROOM WALL SIGN PER
RWS-B	RESTROOM WALL SIGN PER
RWS-C	RESTROOM WALL SIGN PER
EWS	ELEVATOR WALL SIGN PER
E-1,2,3,4	EXIT SIGN PER
ISA	INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN PER
ISA-2	ELEVATOR DIRECTIONAL ISA SIGN PER
OC-1	OCCUPANT LOAD SIGN
FS	FIRE SPRINKLER RISER

- NOTES:**
1. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD. ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS OR MISSING DIMENSIONS FOR CORRECTION BEFORE PROCEEDING WITH WORK.
  2. ALL DIMENSIONS TO METAL STUD PARTITIONS ARE TO FACE OF STUDS, U.N.O. "CLR." OR "MIN." DIMENSIONS SHALL BE TO FACE OF FINISHES, U.N.O.
  3. ALL DIMENSIONS TO CONCRETE OR CMU WALLS ARE FACE OF CONCRETE OR CMU, U.N.O. "CLR." OR "MIN." DIMENSIONS SHALL BE TO FACE OF FINISHES, U.N.O.
  4. DOORS SHALL BE LOCATED AS DIMENSIONED ON THE PLANS. WHERE DOOR IS LOCATED NEXT TO A WALL, THERE SHALL BE A 3-1/2" CLEARANCE BETWEEN WALL FINISH SURFACE AND FACE OF DOOR IN A 90° OPEN POSITION, U.N.O.
  5. WHERE WALL-HUNG FIXTURES OCCUR IN TOILET ROOMS, METAL STUDS SHALL BE AT 12 INCHES ON CENTER.
  6. PROVIDE FIRE EXTINGUISHERS PER TITLE 19.
  7. SEE FINISH SCHEDULE FOR ROOM FINISHES.

**LEGEND:**

A	STRUCTURAL GRID
1/A8.0	DETAIL REFERENCE BUBBLE
1/A3.0	SECTION REFERENCE BUBBLE
N/A5.0	INTERIOR ELEVATION REFERENCE BUBBLE
101	DOOR NUMBER - REFER TO DOOR SCHEDULE
101	WINDOW NUMBER - REFER TO WINDOW SCHED.
EP	ELECTRICAL PANEL PER ELEC. DWGS. FOR INSTALLATION SEE
FEC	FIRE EXTINGUISHER CABINET - (4A-40B-C FIRE EXTINGUISHERS, TYP.)
W	WALL CONSTRUCTION TYPE - SEE BELOW
15	PROJECTOR SCREEN PER
P.S.(A)	P.S.(A): 6x8" SCREEN, WALL MOUNTED
(FURNITURE)	FURNITURE (SHOWN DOTTED), NOT IN CONTRACT (N.I.C.)
(RAISED FLOORING)	RAISED FLOORING PER SPEC.
M.B.(X)	MARKER BOARD PER SPEC.
(CONC. FILL)	CONC. FILL PER STRUCT.

**WALL TYPES:**

REFER TO 1/A8.1	
(A)	EXIST. CONC. WALL TO REMAIN
(B)	E.I.F.S. OVER EXIST. CONC. WALL - SEE A3.1 FOR EXACT LOCATION
(C)	EXIST. WOOD STUD PLASTER WALL TO REMAIN
(D)	4" MTL. STUD EXTERIOR PLASTER WALL, GYP. BD. ON INTERIOR SIDE
(E)	4" MTL. STUD GYP. BD. WALL, ONE-HOUR RATED
(F)	4" C-H MTL. STUD GYP. BD. SHAFT WALL, ONE-HOUR RATED
(G)	4" MTL. STUD GYP. BD. WALL
(H)	6" MTL. STUD GYP. BD. WALL
(J)	4" MTL. STUD GYP. BD. LOW WALL
(K)	2-1/2" MTL. STUD GYP. BD. FURRING AT CONC. WALL
(L)	4" MTL. STUD GYP. BD. FURRING WALL
(M)	GYP. BD. FURRING AT CONC. WALL
(N)	CERAMIC TILE OVER 4" MTL. STUD WALL, BOTH SIDES
(O)	CERAMIC TILE OVER 4" MTL. STUD WALL, GYP. BD. ON OTHER SIDE
(Q)	CERAMIC TILE OVER 6" MTL. STUD WALL, GYP. BD. ON OTHER SIDE
(R)	CERAMIC TILE OVER 4" MTL. STUD FURRING
(S)	CERAMIC TILE OVER 6" MTL. STUD FURRING
(T)	CERAMIC TILE OVER 4" MTL. STUD PLUMBING WALL
(U)	8" CMU WALL W/ PLASTER FINISH ON ONE SIDE.
(V)	6" MTL. STUD EXTERIOR PLASTER WALL

CONSULTANT

**SPENCER / HOSKINS associates**  
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Fax: (909) 952-1321

Jay R. Title, AIA, Architect C-12855  
James G. Spencer, AIA, Architect C-6455  
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CLAYPOOL BUILDING RECONSTRUCTION  
PALO VERDE COLLEGE, NEEDLES CENTER  
PALO VERDE COMMUNITY COLLEGE DISTRICT  
725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363

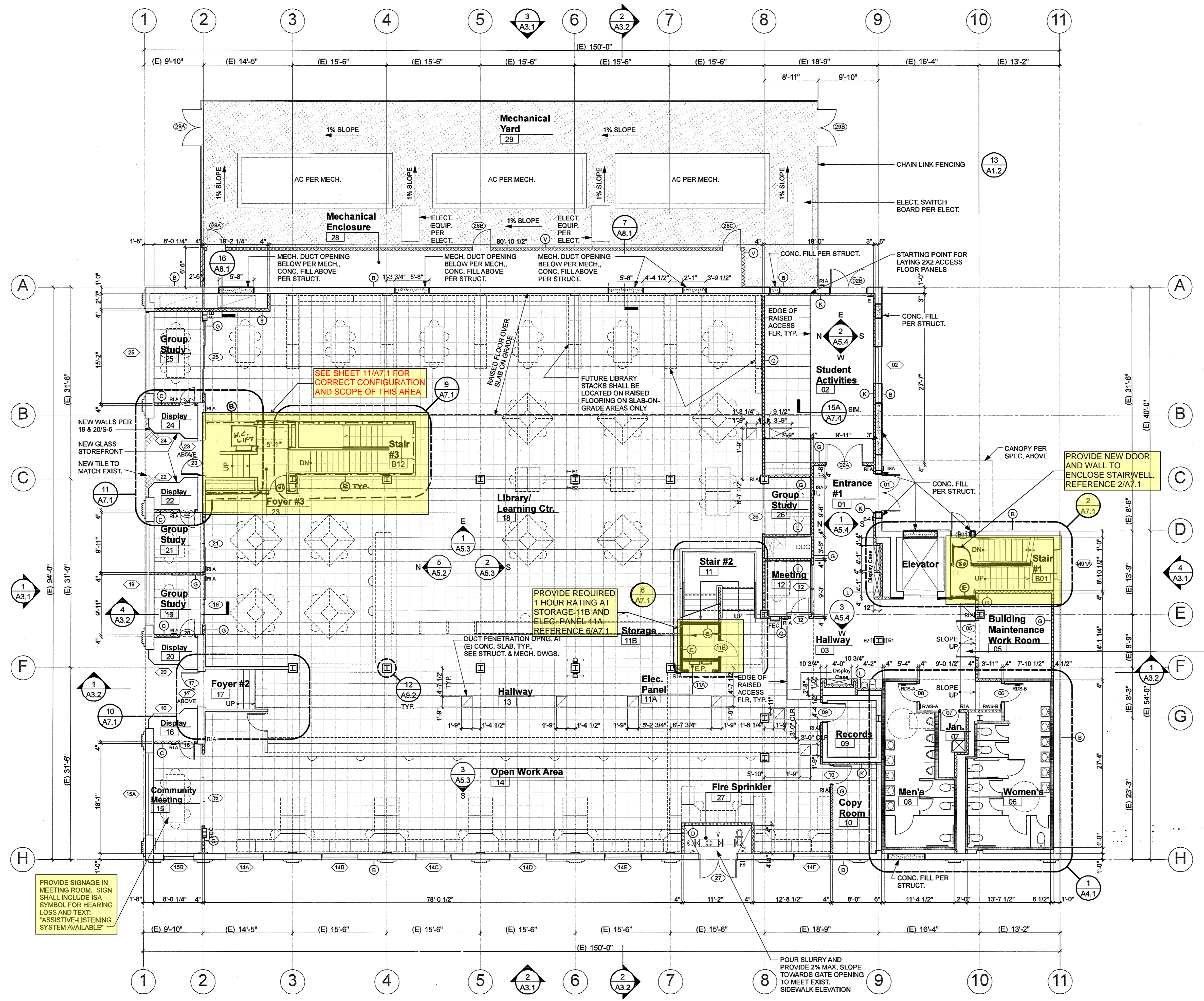
REMODEL BASEMENT FLOOR PLAN

DATE: 07-06-07  
JOB NO.: 2007-SH95-00  
DRAWN: KK  
CHECKED: JVT

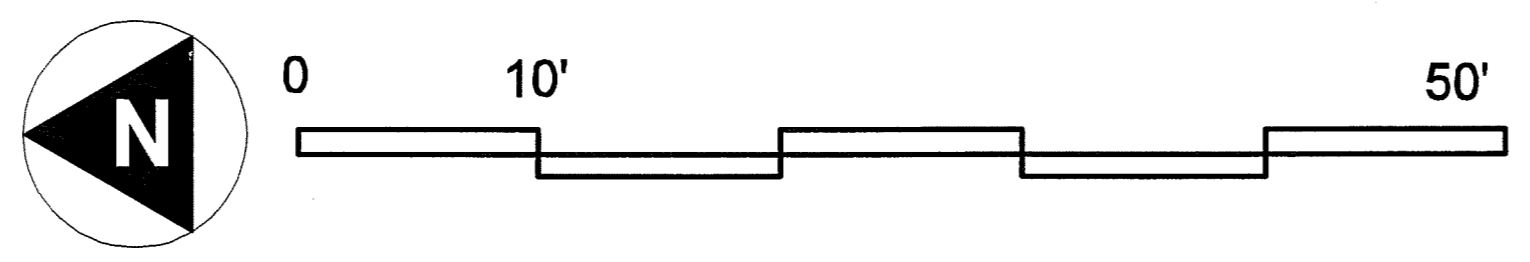
SHEET NO. **A2.1**

SHEET OF

110562  
DATE: 07-20-07



# FIRST FLOOR PLAN



**SIGNAGE LEGEND:**

RI-A	ROOM IDENTIFICATION SIGN TYPE A PER
RI-B	BUILDING NAME PER
RDB-A	REST ROOM DOOR SIGN PER
RDB-B	REST ROOM DOOR SIGN PER
RDB-C	REST ROOM DOOR SIGN PER
RWB-A	REST ROOM WALL SIGN PER
RWB-B	RESTROOM WALL SIGN PER
RWB-C	RESTROOM WALL SIGN PER
EWS	ELEVATOR WALL SIGN PER
E-1,2,3,4	EXIT SIGN PER
ISA	INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN PER
ISA-2	ELEVATOR DIRECTIONAL ISA SIGN PER
OC-1	OCCUPANT LOAD SIGN
FS	FIRE SPRINKLER RISER

- NOTES:**
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  3. ALL DIMENSIONS TO CONCRETE OR CMU WALLS ARE FACE OF CONCRETE OR CMU, U.N.O. "CLR." OR "MIN." DIMENSIONS SHALL BE TO FACE OF FINISHES, U.N.O.
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  5. WHERE WALL-HUNG FIXTURES OCCUR IN TOILET ROOMS, METAL STUDS SHALL BE AT 12 INCHES ON CENTER.
  6. PROVIDE FIRE EXTINGUISHERS PER TITLE 19.
  7. SEE FINISH SCHEDULE FOR ROOM FINISHES.

**LEGEND:**

A	STRUCTURAL GRID
1 A9.0	DETAIL REFERENCE BUBBLE
1 A3.0	SECTION REFERENCE BUBBLE
1 A5.0	INTERIOR ELEVATION REFERENCE BUBBLE
101	DOOR NUMBER - REFER TO DOOR SCHEDULE
201	WINDOW NUMBER - REFER TO WINDOW SCHED. FOR INSTALLATION SEE
EP	ELECTRICAL PANEL PER ELEC. DWGS. FOR INSTALLATION SEE
5 A9.7	FIRE EXTINGUISHER CABINET - (4A-405.C FIRE EXTINGUISHERS, TYP.)
15 A9.7	WALL CONSTRUCTION TYPE - SEE BELOW
P.S.(X)	PROJECTOR SCREEN PER P.S.(A) 6"x8" SCREEN, WALL MOUNTED
(Dotted)	FURNITURE (SHOWN DOTTED, NOT IN CONTRACT (N.I.C.))
(Dotted)	BUILT-IN CABINETS (UPPER CABINET ABOVE SHOWN DOTTED, REFER TO INT. ELEVATIONS)
M.B.(X)	MARKER BOARD PER SPEC.
(Hatched)	CONC. FILL PER STRUCT.

**WALL TYPES:**

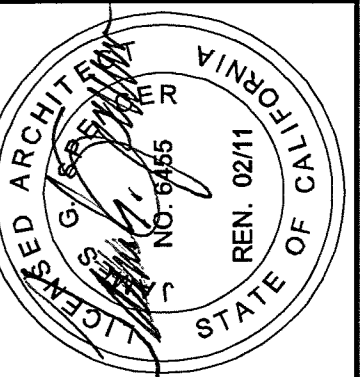
(A)	EXIST. CONC. WALL TO REMAIN
(B)	E.I.F.S. OVER EXIST. CONC. WALL - SEE A3.1 FOR EXACT LOCATION
(C)	EXIST. WOOD STUD PLASTER WALL TO REMAIN
(D)	4" MTL. STUD EXTERIOR PLASTER WALL, GYP. BD. ON INTERIOR SIDE
(E)	4" MTL. STUD GYP. BD. WALL, ONE-HOUR RATED
(F)	4" C-H MTL. STUD GYP. BD. SHAFT WALL, ONE-HOUR RATED
(G)	4" MTL. STUD GYP. BD. WALL
(H)	6" MTL. STUD GYP. BD. WALL
(J)	4" MTL. STUD GYP. BD. LOW WALL
(K)	2-1/2" MTL. STUD GYP. BD. FURRING AT CONC. WALL
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(M)	GYP. BD. FURRING AT CONC. WALL
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(R)	CERAMIC TILE OVER 4" MTL. STUD FURRING
(S)	CERAMIC TILE OVER 6" MTL. STUD FURRING
(T)	CERAMIC TILE OVER 4" MTL. STUD PLUMBING WALL
(U)	8" CMU WALL W/ PLASTER FINISH ON ONE SIDE.
(V)	6" MTL. STUD EXTERIOR PLASTER WALL

CONSULTANT

NO.	DATE	REVISIONS

**SPENCER / HOSKINS associates**  
 Architecture & Planning  
 885 Overland Court, Suite 100  
 San Francisco, California 94117-3116  
 (415) 774-8000  
 Fax: (415) 774-1321

Jay R. Title, AIA, Architect, C-12855  
 Jay C. Spencer, AIA, Architect, C-6455  
 Stephen R. Hoskins, AIA, Architect, C-7123



**CLAYPOOL BUILDING RECONSTRUCTION**  
 PALO VERDE COLLEGE, NEEDLES CENTER  
 PALO VERDE COMMUNITY COLLEGE DISTRICT  
 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363

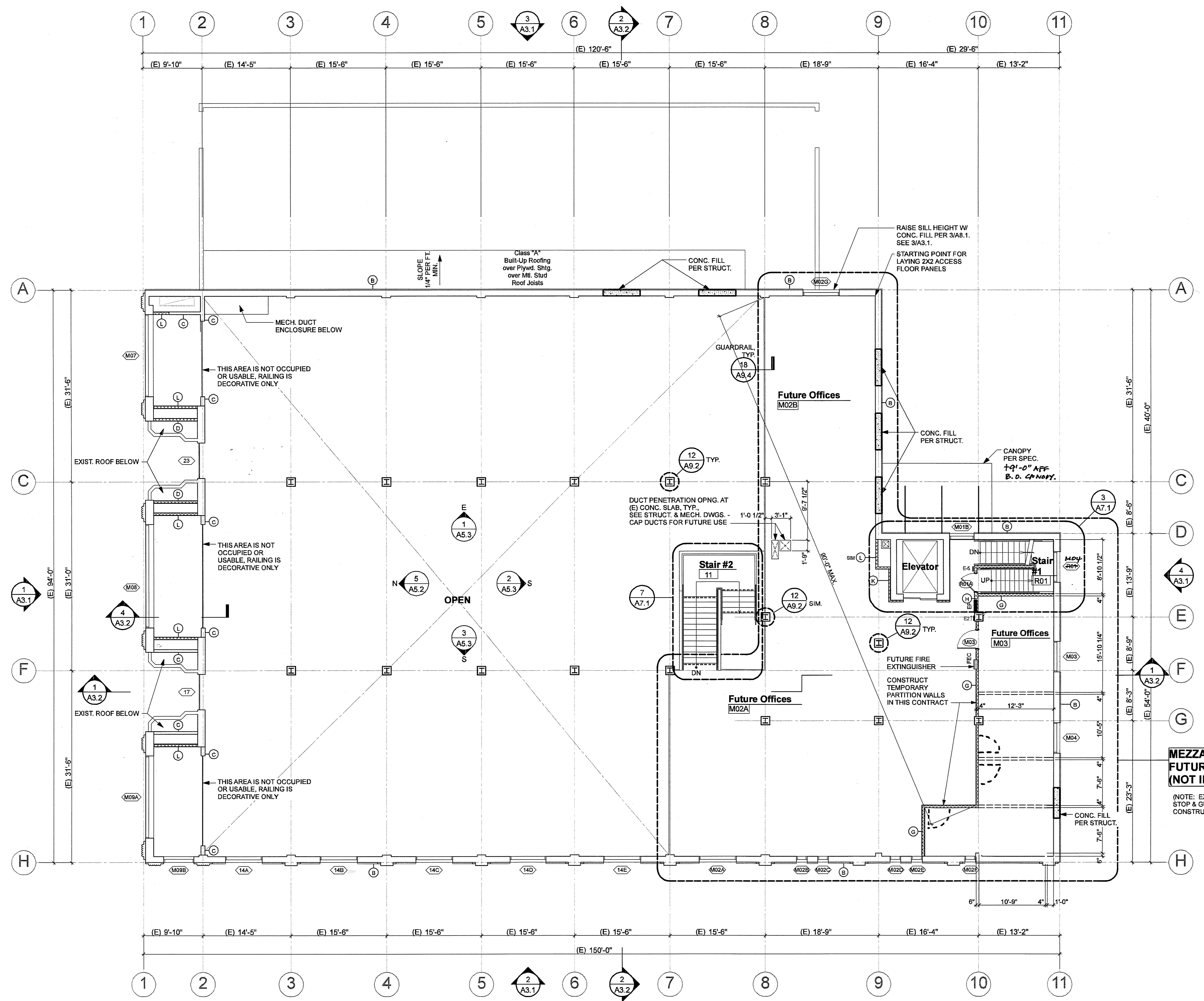
DATE: 07-06-07  
 JOB NO.: 2007-SH95-00  
 DRAWN: JVT  
 CHECKED: JVT

**REMODEL FIRST FLOOR PLAN**

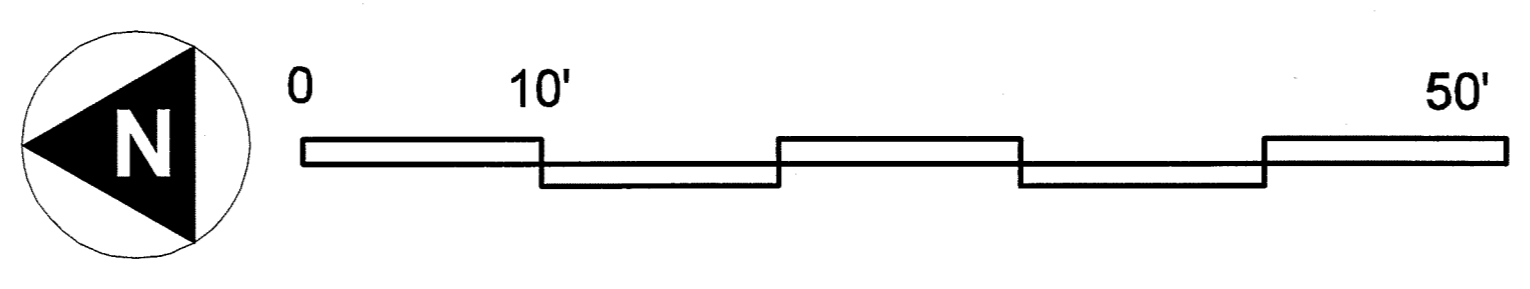
SHEET NO. **A2.2**

110562

APR 07 2011



# MEZZANINE FLOOR PLAN



**SIGNAGE LEGEND:**

RIA	ROOM IDENTIFICATION SIGN TYPE A PER
RB-B	BUILDING NAME PER
RDB-A	REST ROOM DOOR SIGN PER
RDB-B	REST ROOM DOOR SIGN PER
RDB-C	REST ROOM DOOR SIGN PER
RWB-A	REST ROOM WALL SIGN PER
RWB-B	RESTROOM WALL SIGN PER
RWB-C	RESTROOM WALL SIGN PER
EWS	ELEVATOR WALL SIGN PER
E-1,2,3,4	EXIT SIGN PER
ISA	INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN PER
ISA-2	ELEVATOR DIRECTIONAL ISA SIGN PER
OC-1	OCCUPANT LOAD SIGN
FS	FIRE SPRINKLER RISER

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  6. PROVIDE FIRE EXTINGUISHERS PER TITLE 19.
  7. SEE FINISH SCHEDULE FOR ROOM FINISHES.

**LEGEND:**

A	STRUCTURAL GRID
1 A9.0	DETAIL REFERENCE BUBBLE
1 A3.0	SECTION REFERENCE BUBBLE
1 A5.0	INTERIOR ELEVATION REFERENCE BUBBLE
101	DOOR NUMBER - REFER TO DOOR SCHEDULE
101	WINDOW NUMBER - REFER TO WINDOW SCHED.
EP	ELECTRICAL PANEL PER ELEC. DWGS. FOR INSTALLATION SEE
FEC	FIRE EXTINGUISHER CABINET - (4A.40B.C FIRE EXTINGUISHERS, TYP.)
X	WALL CONSTRUCTION TYPE - SEE BELOW
CONC.	CONC. FILL PER STRUCT.

**MEZZANINE REMODEL IS FUTURE WORK - OFFICES (NOT IN CONTRACT)**

NOTE: EXIT STAIRS, ELEVATOR STOP & GUARDRAILS SHALL BE CONSTRUCTED AS SHOWN

**WALL TYPES:**

(A)	EXIST. CONC. WALL TO REMAIN
(B)	E.I.F.S. OVER EXIST. CONC. WALL - SEE A3.1 FOR EXACT LOCATION
(C)	EXIST. WOOD STUD PLASTER WALL TO REMAIN
(D)	4" MTL. STUD EXTERIOR PLASTER WALL, GYP. BD. ON INTERIOR SIDE
(E)	4" MTL. STUD GYP. BD. WALL, ONE-HOUR RATED
(F)	4" C-H MTL. STUD GYP. BD. SHAFT WALL, ONE-HOUR RATED
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(H)	6" MTL. STUD GYP. BD. WALL
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**CONSULTANT**

**SPENCER / HOSKINS associates**  
 Architecture & Planning  
 955 Overland Court, Suite 100  
 San Dimas, California 91773-1718  
 Jay R. Tittle, AIA, Architect C-12855  
 James G. Spencer, AIA, Architect C-6455  
 Stephen R. Hoskins, AIA, Architect C-7723

**REVISIONS**

NO.	DATE	DESCRIPTION

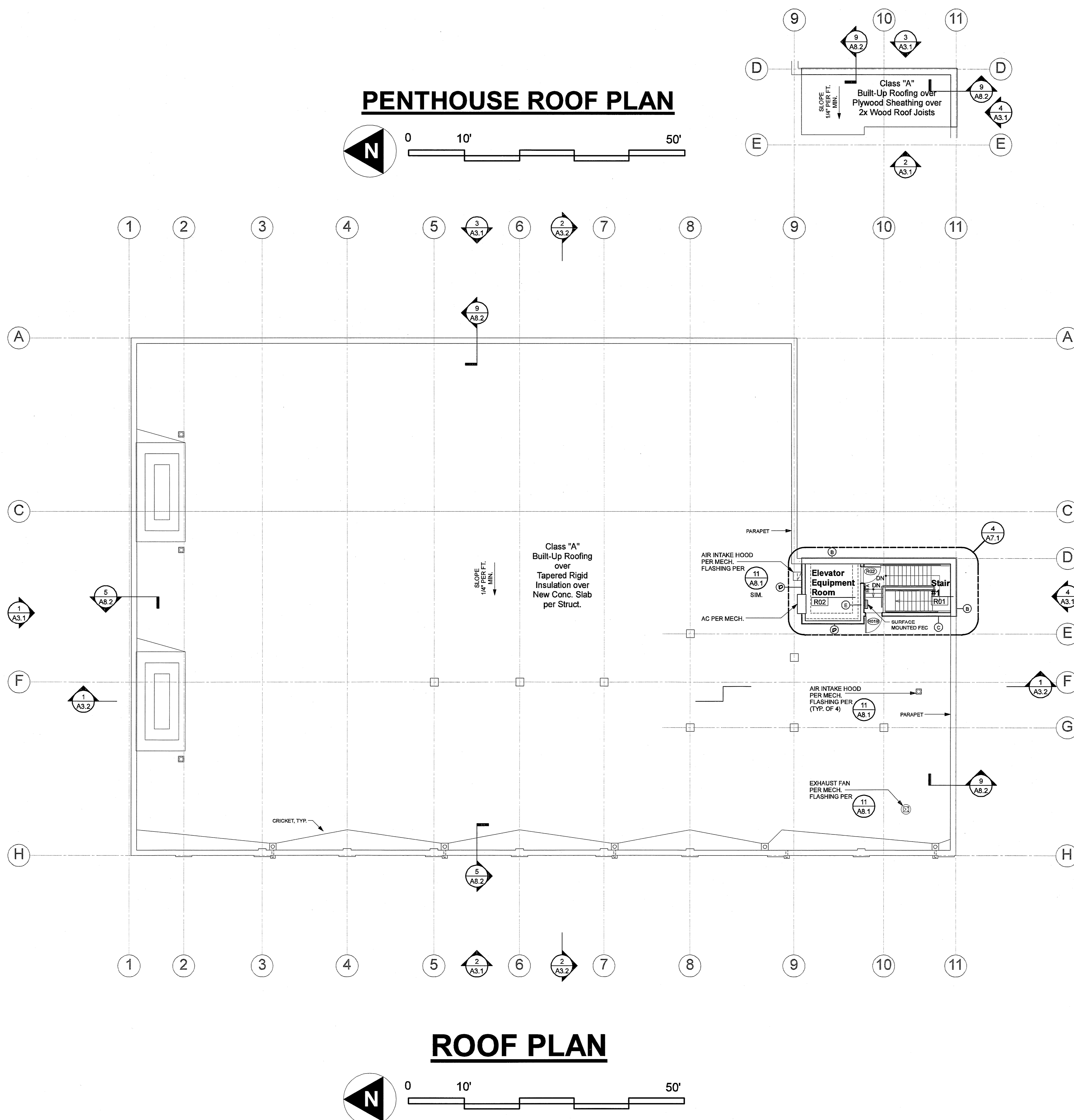
**CLAYPOOL BUILDING RECONSTRUCTION**  
**PALO VERDE COLLEGE, NEEDLES CENTER**  
 PALO VERDE COMMUNITY COLLEGE DISTRICT  
 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363

**REMODEL MEZZANINE FLOOR PLAN**

DATE: 07-06-07  
 JOB NO.: 2007-SH95-00  
 DRAWN: KK  
 CHECKED: JVT

SHEET NO. **A2.3**

DATE: APR 7 2011



**SIGNAGE LEGEND:**

	ROOM IDENTIFICATION SIGN TYPE A PER
	BUILDING NAME PER
	REST ROOM DOOR SIGN PER
	REST ROOM DOOR SIGN PER
	REST ROOM DOOR SIGN PER
	REST ROOM WALL SIGN PER
	RESTROOM WALL SIGN PER
	RESTROOM WALL SIGN PER
	ELEVATOR WALL SIGN PER
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	OCCUPANT LOAD SIGN
	FIRE SPRINKLER RISER

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  6. PROVIDE FIRE EXTINGUISHERS PER TITLE 19.
  7. SEE FINISH SCHEDULE FOR ROOM FINISHES.

**LEGEND:**

	STRUCTURAL GRID
	DETAIL REFERENCE BUBBLE
	SECTION REFERENCE BUBBLE
	INTERIOR ELEVATION REFERENCE BUBBLE
	DOOR NUMBER - REFER TO DOOR SCHEDULE
	WINDOW NUMBER - REFER TO WINDOW SCHED.
	FIRE EXTINGUISHER CABINET - (4A.408.C FIRE EXTINGUISHERS, TYP.)
	WALL CONSTRUCTION TYPE - SEE BELOW

**WALL TYPES:**

	REFER TO 1/A8.1
	EXIST. CONC. WALL TO REMAIN
	E.I.F.S. OVER EXIST. CONC. WALL - SEE A3.1 FOR EXACT LOCATION
	EXIST. WOOD STUD PLASTER WALL TO REMAIN
	4" MTL. STUD GYP. BD. WALL, ONE-HOUR RATED
	4" C-H MTL. STUD GYP. BD. SHAFT WALL, ONE-HOUR RATED
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	GYP. BD. FURRING AT CONC. WALL
	CERAMIC TILE OVER 4" MTL. STUD WALL, BOTH SIDES
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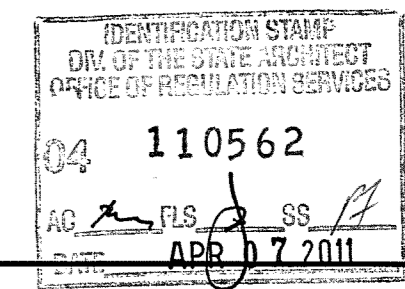
REMODEL ROOF PLAN

DATE: 07-06-07  
JOB NO.: 2007-SH95-00  
DRAWN: JJ  
CHECKED: JVT

SHEET NO. 110562

**A2.4**

SHEET OF





CLAYPOOL WINDOW SCHEDULE

FIRST FLOOR

Table with columns: WINDOW NO., ROOM NO., TYPE, OPENINGS (WIDTH, HEIGHT), LABEL, GLASS, FRAME MATERIAL, HEAD, JAMB, JAMB, SILL, REMARKS. Includes rows 02, 12, 14A, 14B, 14C, 14D, 14E, 14F, 15A, 15B, 16, 17, 19, 20, 22, 23, 24, 25.

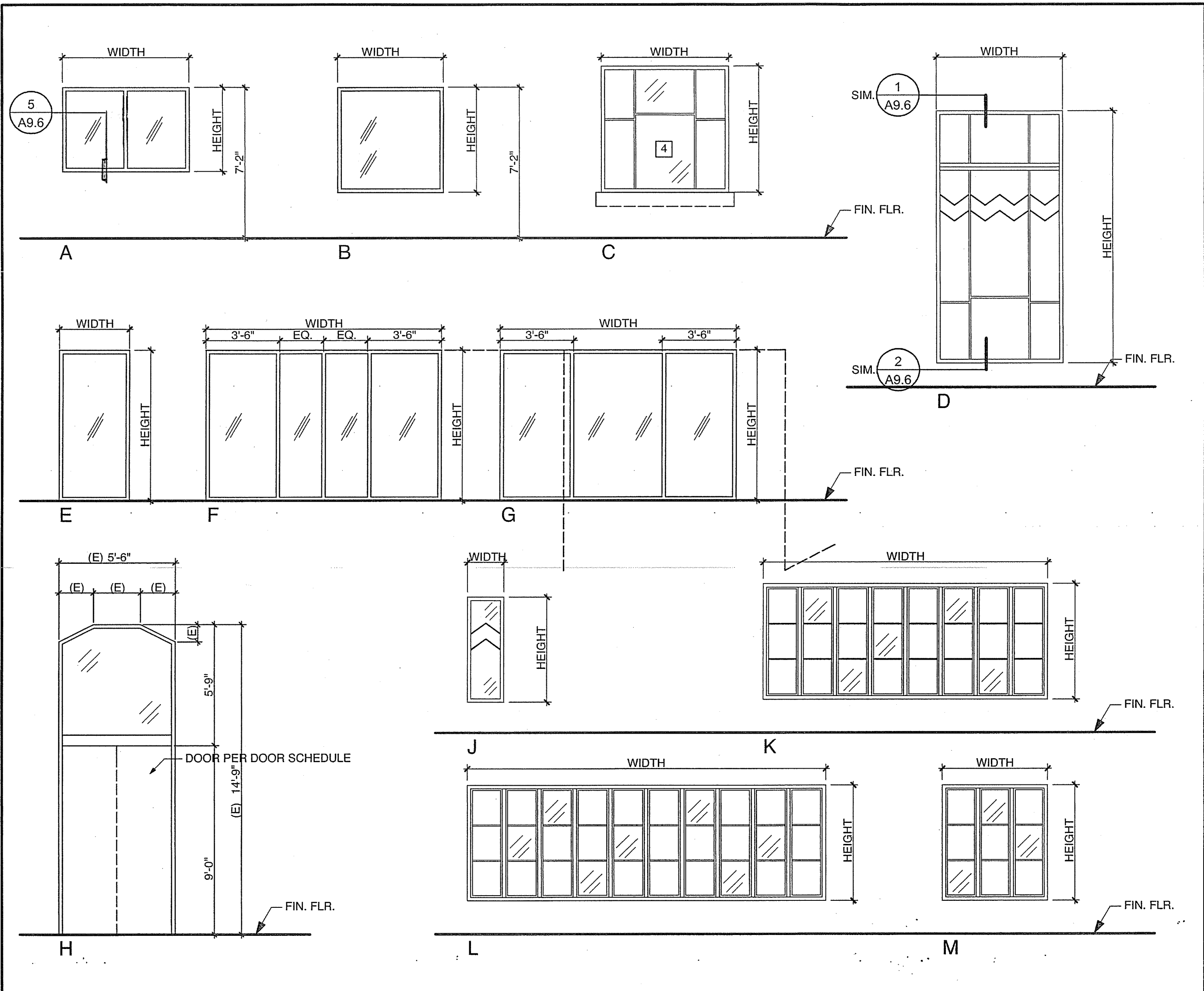
MEZZANINE FLOOR

Table with columns: WINDOW NO., ROOM NO., TYPE, OPENINGS (WIDTH, HEIGHT), LABEL, GLASS, FRAME MATERIAL, HEAD, JAMB, JAMB, SILL, REMARKS. Includes rows M01A, M01B, M02A, M02B, M02C, M02D, M02E, M02F, M02G, M03, M04, M07, M08, M09A, M09B.

Window Remark Keynotes

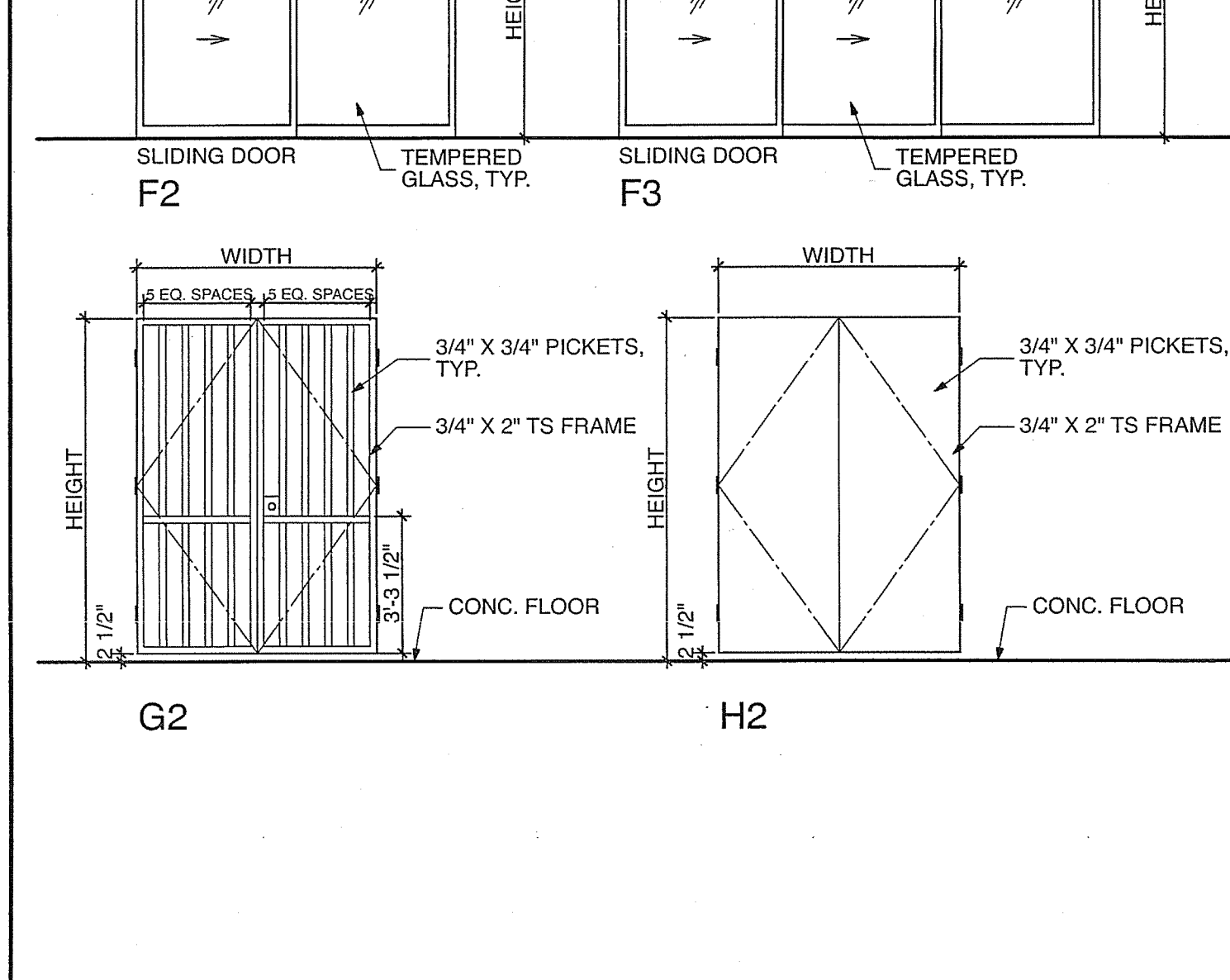
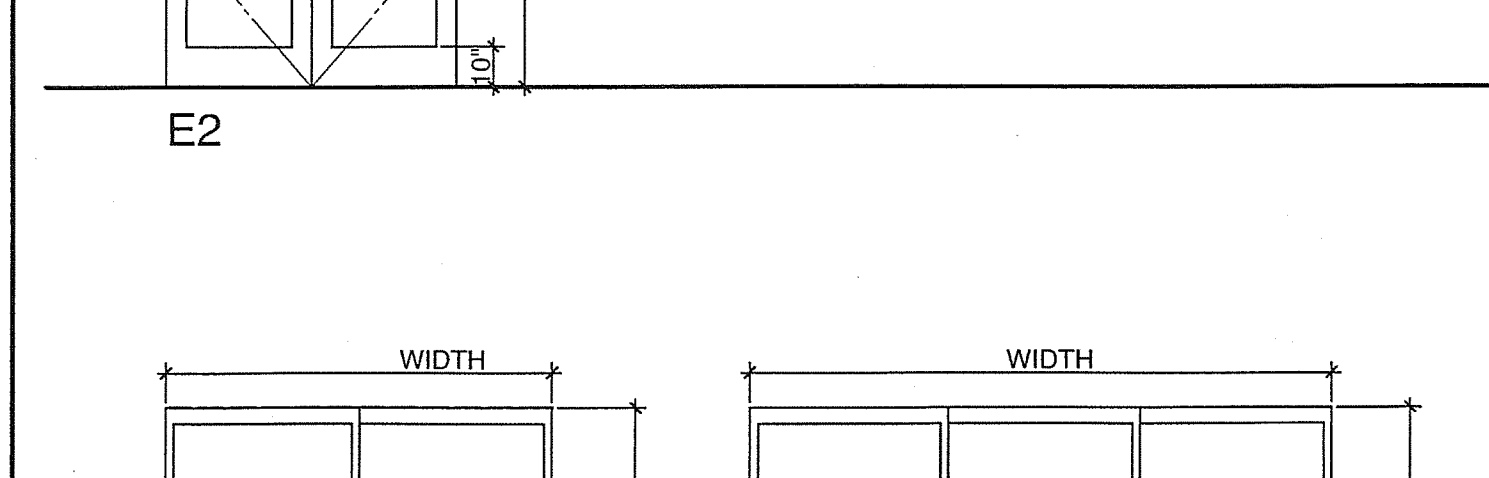
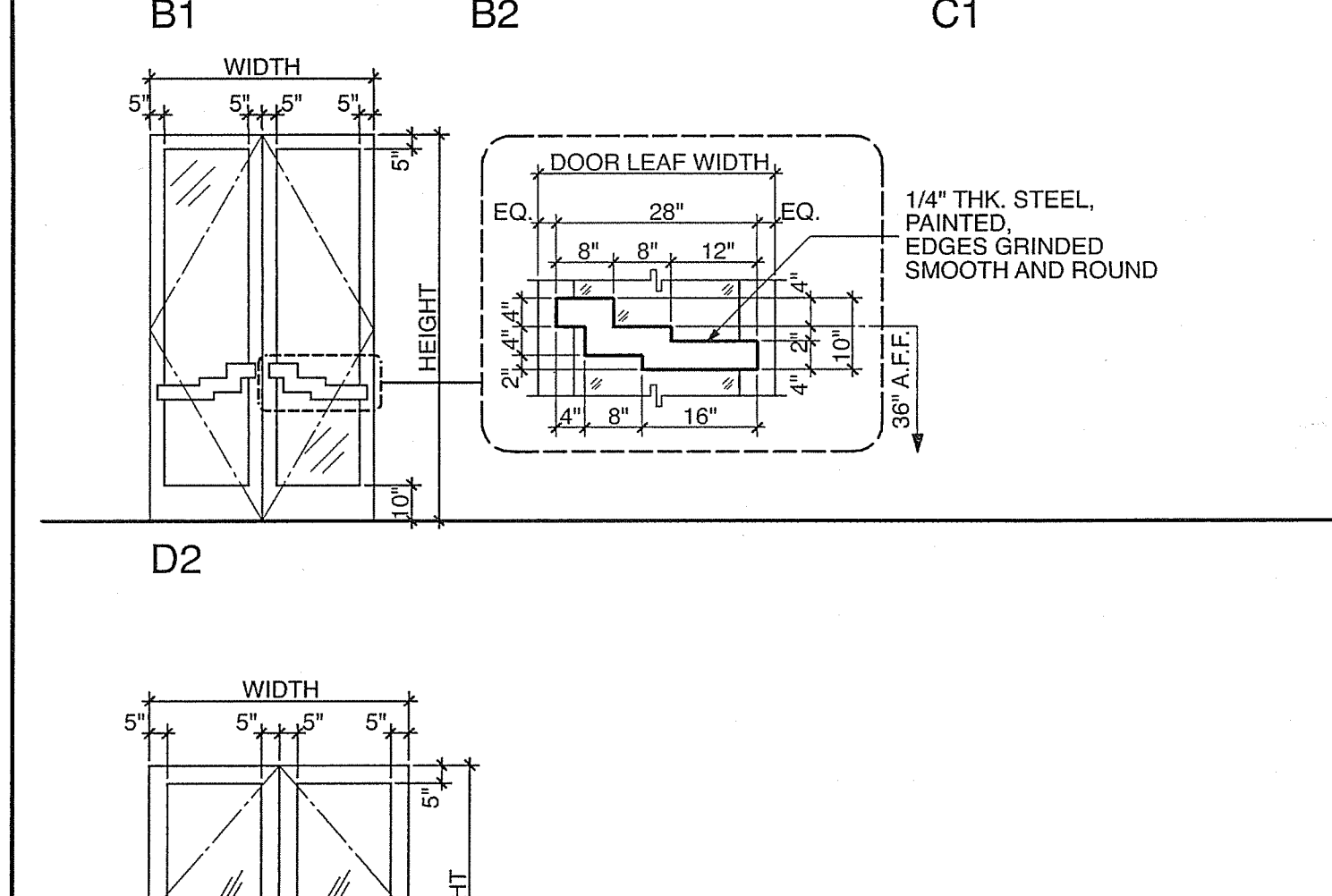
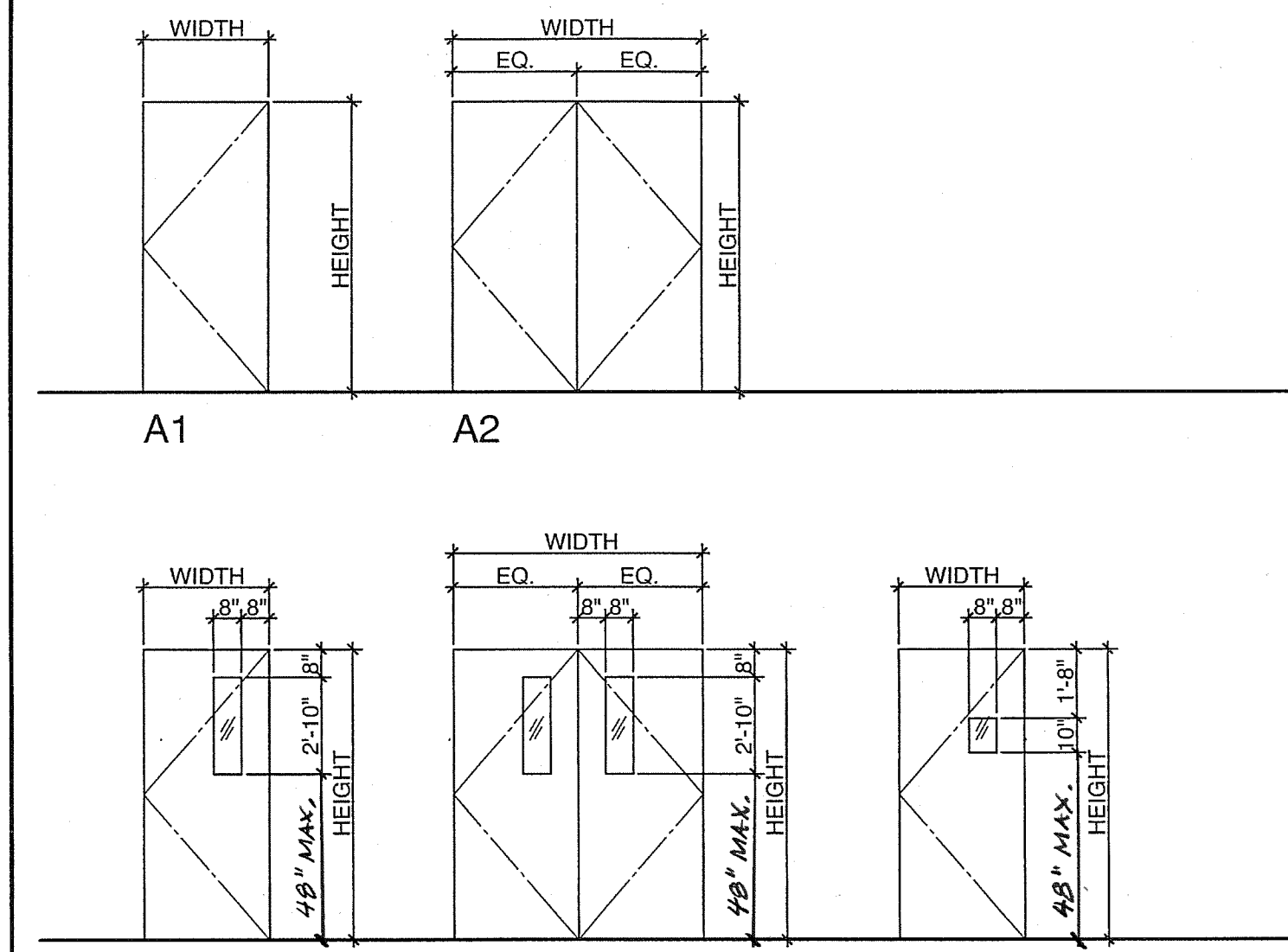
Table with columns: REMARK NO., REMARKS. Lists keynotes A through E regarding window framing, shading, and repair.

WINDOW TYPE



DOOR TYPES

BASEMENT FLOOR



CLAYPOOL BUILDING DOOR SCHEDULE

BASEMENT FLOOR

Table with columns: DOOR NO., ROOM NO., TYPE, OPENINGS (WIDTH, HEIGHT), THICK., MATERIAL (DOOR, FRAME), LABEL, GLASS, HDWR SET, HEAD, JAMB, JAMB, THRESH., SIGN TYPE (SEE A9.2), REMARKS. Includes rows B01 through B18.

FIRST FLOOR

Table with columns: DOOR NO., ROOM NO., TYPE, OPENINGS (WIDTH, HEIGHT), THICK., MATERIAL (DOOR, FRAME), LABEL, GLASS, HDWR SET, HEAD, JAMB, JAMB, THRESH., SIGN TYPE (SEE A9.2), REMARKS. Includes rows 01 through 31.

MEZZANINE FLOOR

Table with columns: DOOR NO., ROOM NO., TYPE, OPENINGS (WIDTH, HEIGHT), THICK., MATERIAL (DOOR, FRAME), LABEL, GLASS, HDWR SET, HEAD, JAMB, JAMB, THRESH., SIGN TYPE (SEE A9.2), REMARKS. Includes rows M03 through M06.

PENTHOUSE FLOOR

Table with columns: DOOR NO., ROOM NO., TYPE, OPENINGS (WIDTH, HEIGHT), THICK., MATERIAL (DOOR, FRAME), LABEL, GLASS, HDWR SET, HEAD, JAMB, JAMB, THRESH., SIGN TYPE (SEE A9.2), REMARKS. Includes rows R01 through R02.

WINDOW ABBREVIATIONS

- ALUM ALUMINUM STOREFRONT
ADO 1" DOUBLE GLAZED INSULATING LOW-E - CLEAR LAM. INTINT LAM OUT
ASD 1/4" LAMINATED GLASS
DGI HOLLOW METAL
EXT 1/4" WIRE GLASS (90 DEGREE WIRES)

WINDOW NOTES

- 1. ALL NEW GLAZING SUBJECTED TO HUMAN IMPACT SHALL COMPLY WITH SECTION 2406 OF THE 2001 CALIFORNIA BUILDING CODE
2. ALL NEW EXTERIOR WINDOW & DOOR GLAZING SHALL BE 1" THICK INSULATING GLASS, U.N.O.
3. ALL INTERIOR GLAZING SHALL BE CLEAR LAMINATED GLASS, U.N.O. COMM W/ CBC SECT 2406.

DOOR ABBREVIATIONS

- ALUM ALUMINUM STOREFRONT
ADO AUTOMATIC DOOR OPERATOR
ASD AUTOMATIC SLIDING DOOR W/ EMERGENCY BREAKOUT OPENING

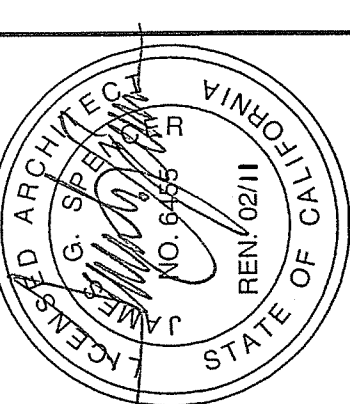
DOOR NOTES

- 1. ALL GLASS IN RATED DOORS SHALL BE WIRE GLASS AND SET IN STEEL FRAME, U.N.O. (CBC 2406)
2. EXIT DOORS SHALL BE OPEVABLE FROM THE INSIDE WITHOUT THE USE OF KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT

CONSULTANT

Table with columns: NO, DATE, REVISIONS.

SPENCER / HOSKINS associates Architecture & Planning



CLAYPOOL BUILDING RECONSTRUCTION PALO VERDE COLLEGE, NEEDLES CENTER 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363

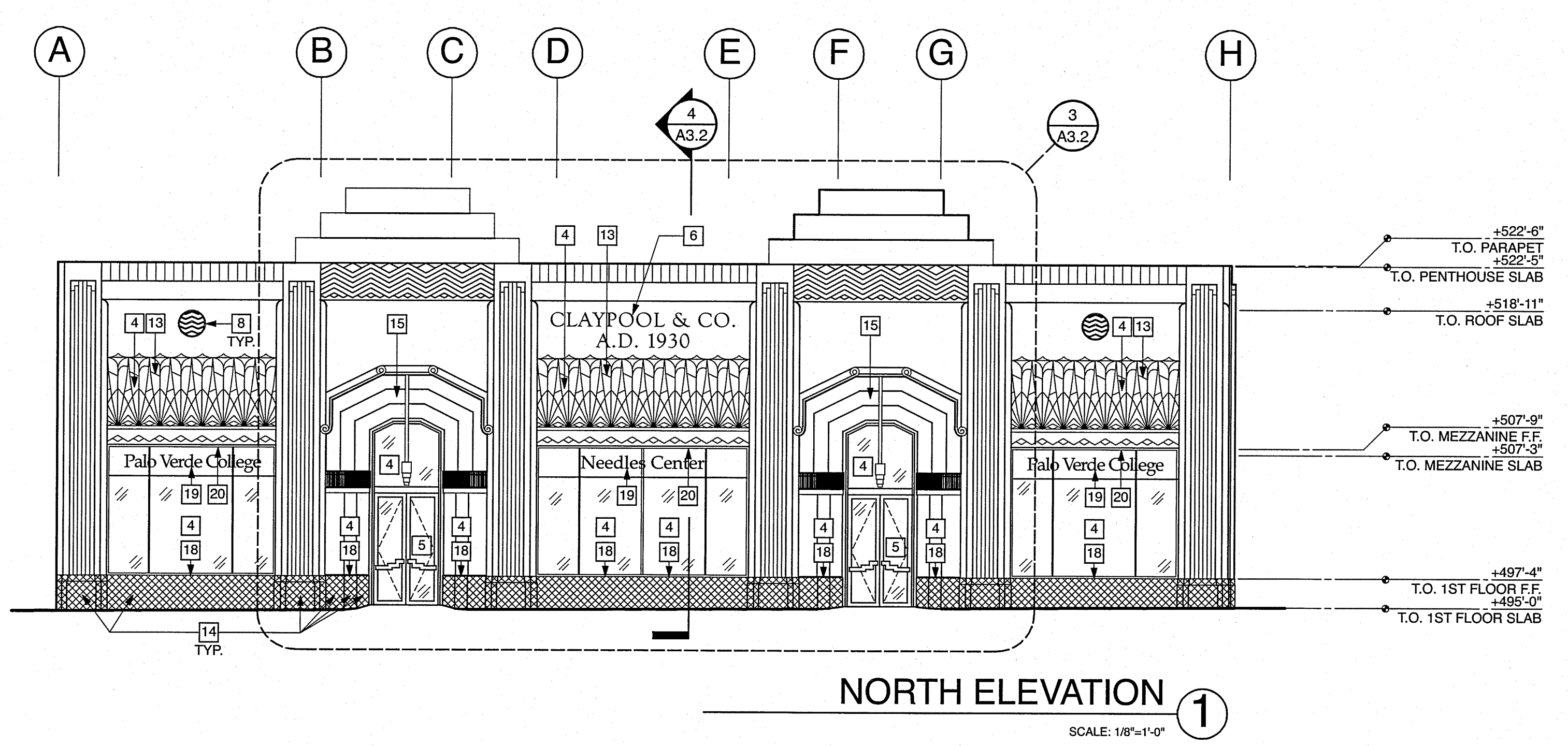
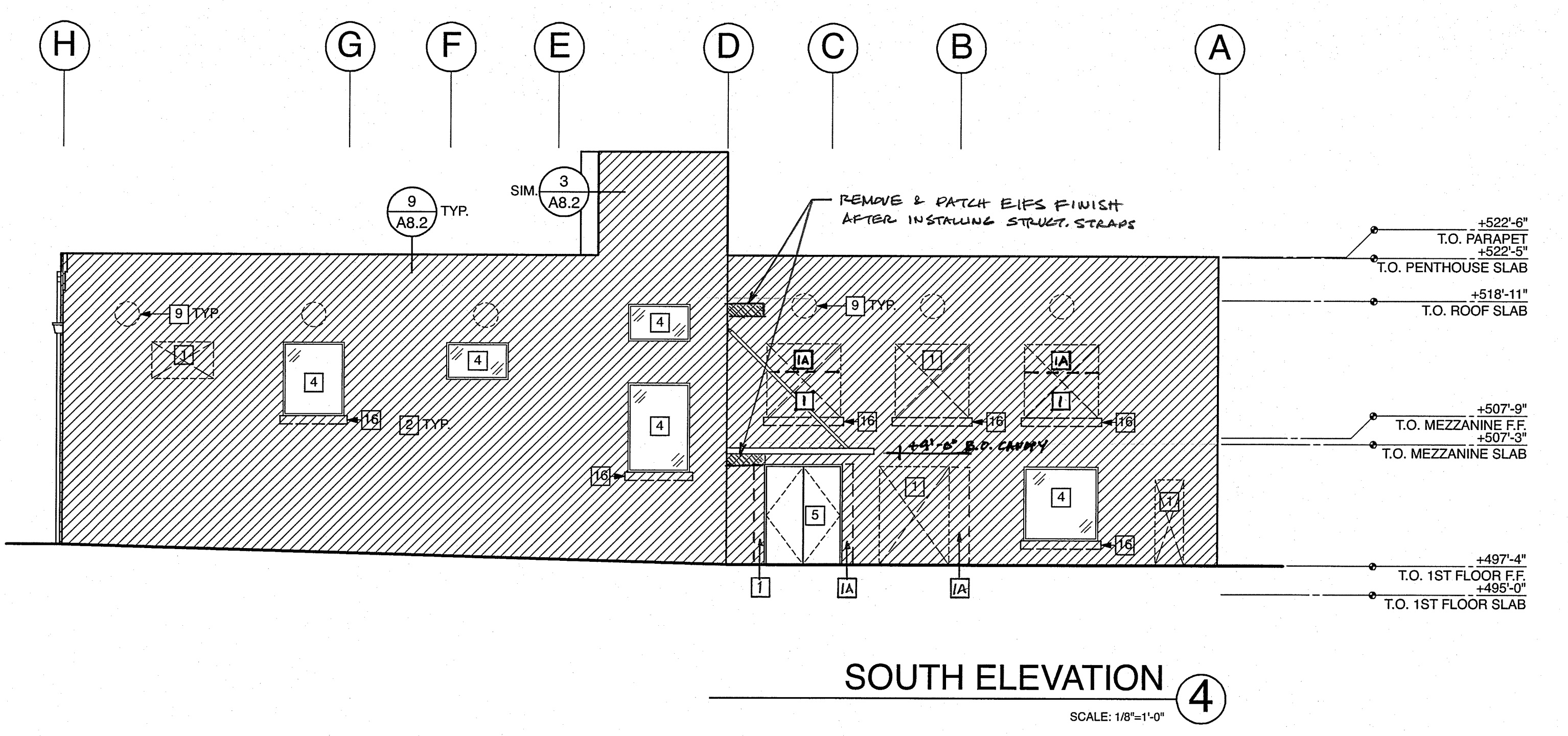
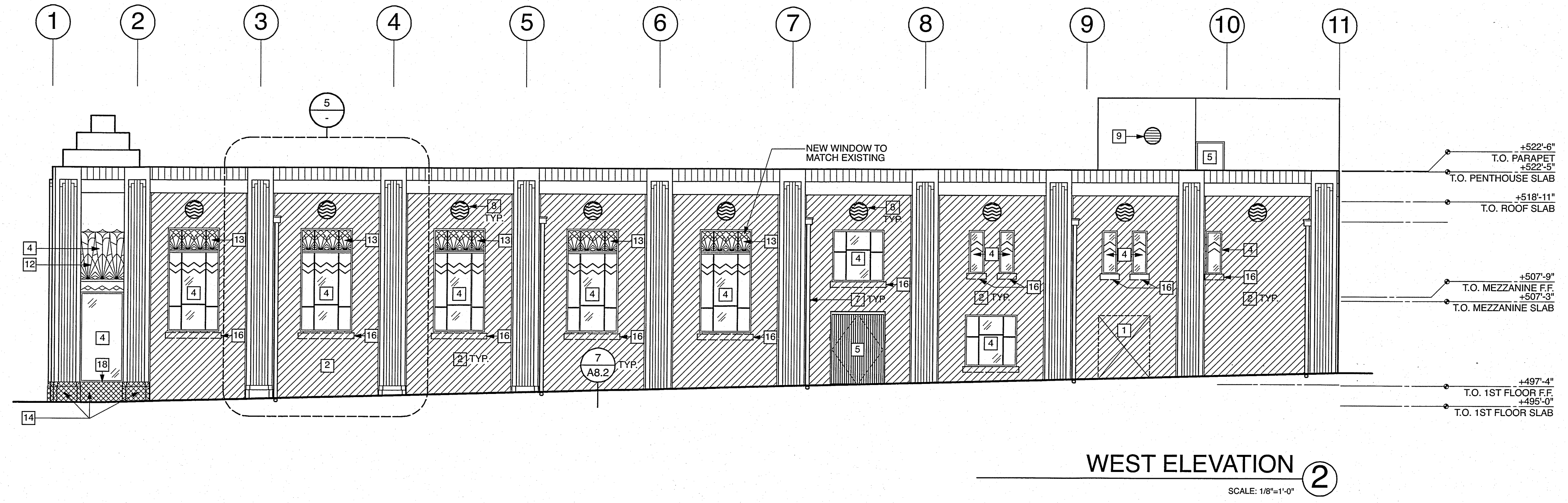
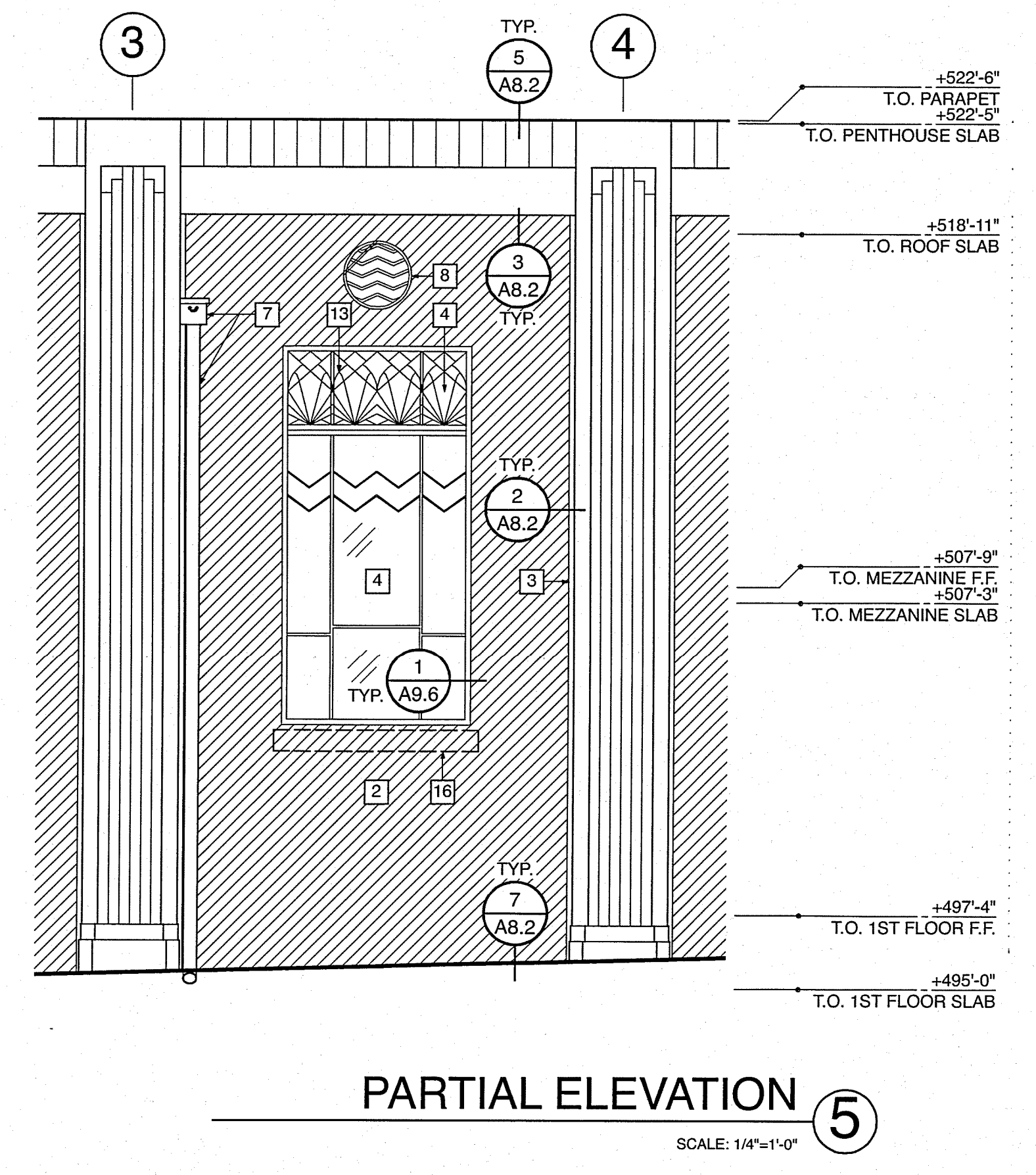
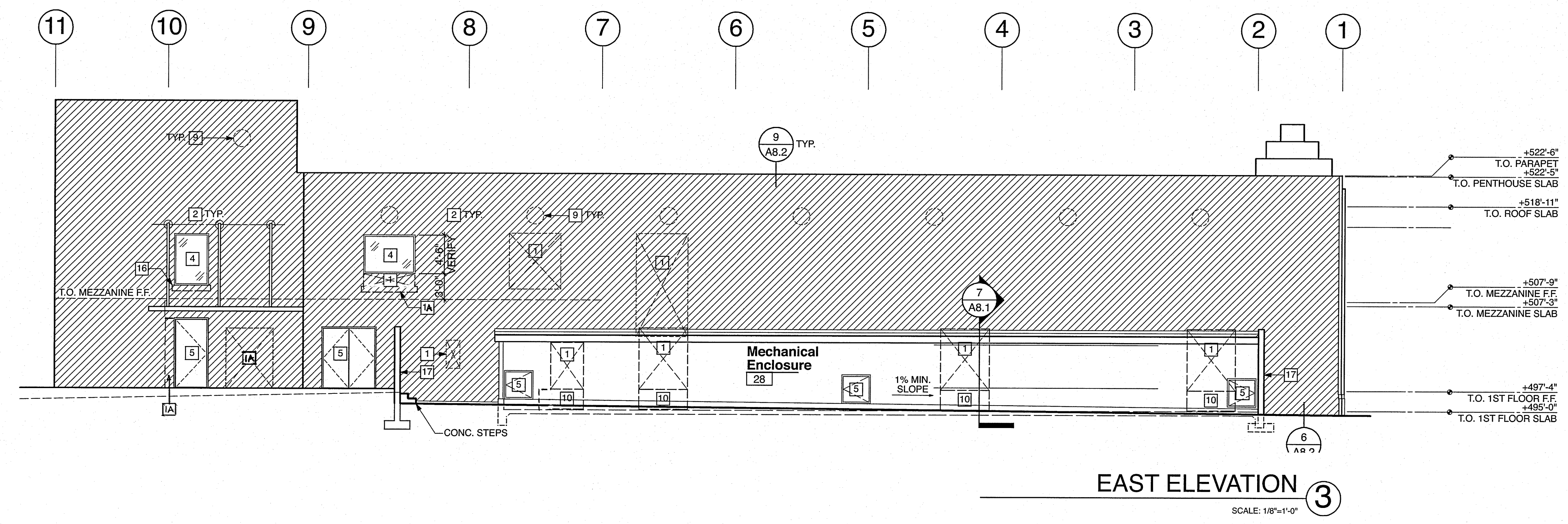
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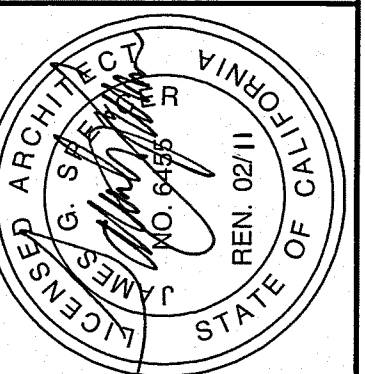
- LEGEND:**
- (A) STRUCTURAL GRID
  - (1/AB.0) DETAIL REFERENCE BUBBLE
  - (1/AS.0) SECTION REFERENCE BUBBLE

- GENERAL NOTES**
1. WATERBLAST & SCRUB ALL EXISTING SURFACES NOT RECEIVING E.I.F.S. COVERING, INCLUDING EXPOSED PLASTERS ON WEST FACADE.
  2. PATCH & REPAIR ALL HOLES EXPOSED TO MATCH ADJACENT SURFACE.

- KEY NOTES**
- (A) SAME AS (1) EXCEPT (N) OPENING TO BE FILLED
  - (E) OPENING TO BE FILLED IN WITH CONC. WALL PER STRUCT.
  - (E.I.F.S. FINISH OVER CONC. WALL (AREA INDICATED AS ))
  - (2) E.I.F.S. REVEALS
  - (4) WINDOW PER WINDOW SCHEDULE
  - (5) DOOR PER DOOR SCHEDULE
  - (6) EXTERIOR SIGNAGE PER SPECS.
  - (7) NEW COLLECTOR HEAD & DOWNSPOUT - PAINTED
  - (8) (E) STONE VENT, CLOSE OFF FROM ATTIC SIDE W/ GALV. SHEET METAL. AT CONTRACTOR'S OPTION, VENT CAN BE CLOSED OFF FROM EXTERIOR SIDE & REPLICA OF EXIST. VENT CAN BE INSTALLED FLUSH W/ E.I.F.S. SURFACE.
  - (9) (E) GALV. IRON LOUVER VENT TO BE CLOSED OFF FROM EXTERIOR SIDE.
  - (10) MECH. DUCT OPENING
  - (11) (NOT USED)
  - (12) (E) IRON GRILLE TO REMAIN
  - (13) IRON GRILLE TO MATCH PROFILE SHOWN ON ELEVATION.
  - (14) BLACK TILE PER SPEC. (AREA INDICATED AS ) T.O. BLACK TILE TO MATCH 1ST FLOOR FINISH ELEVATION
  - (15) BLACK GLASS ADHERED TO WALL
  - (16) EXIST. CONC. SILL TO BE CONCEALED BEHIND E.I.F.S.
  - (17) MECH. YARD WALL, PLASTER OVER CMU. SEE A9.1
  - (18) SILL HEIGHT TO BE FLUSH WITH 1ST FLOOR FINISH ELEVATION
  - (19) SIGN PER SPEC.
  - (20) LIGHTS ABOVE SIGNAGE, TYP.
  - (21) RAISED FLOOR PER SPEC.

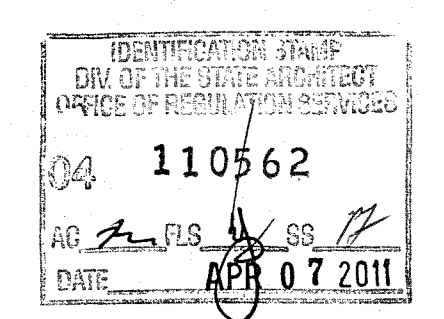


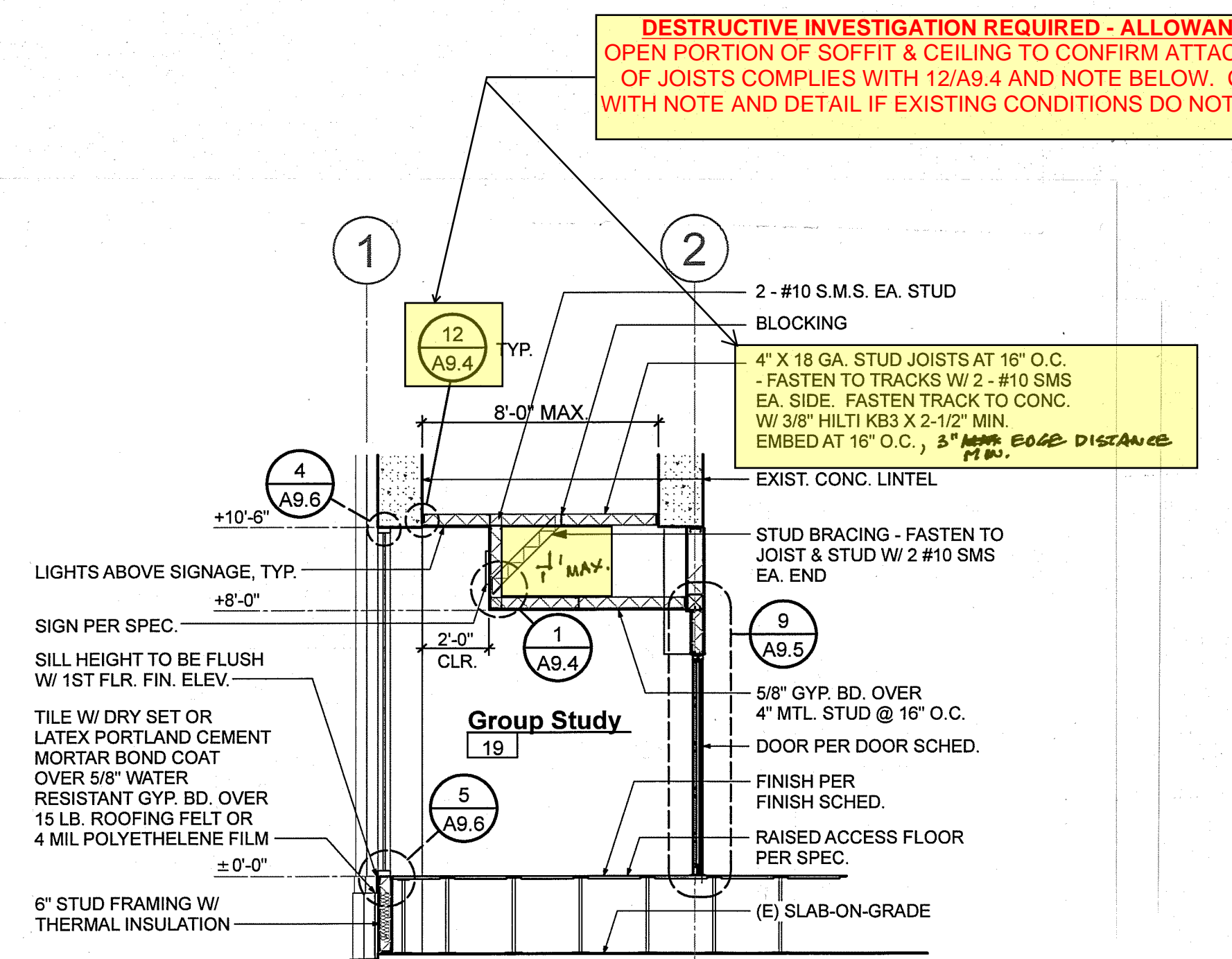
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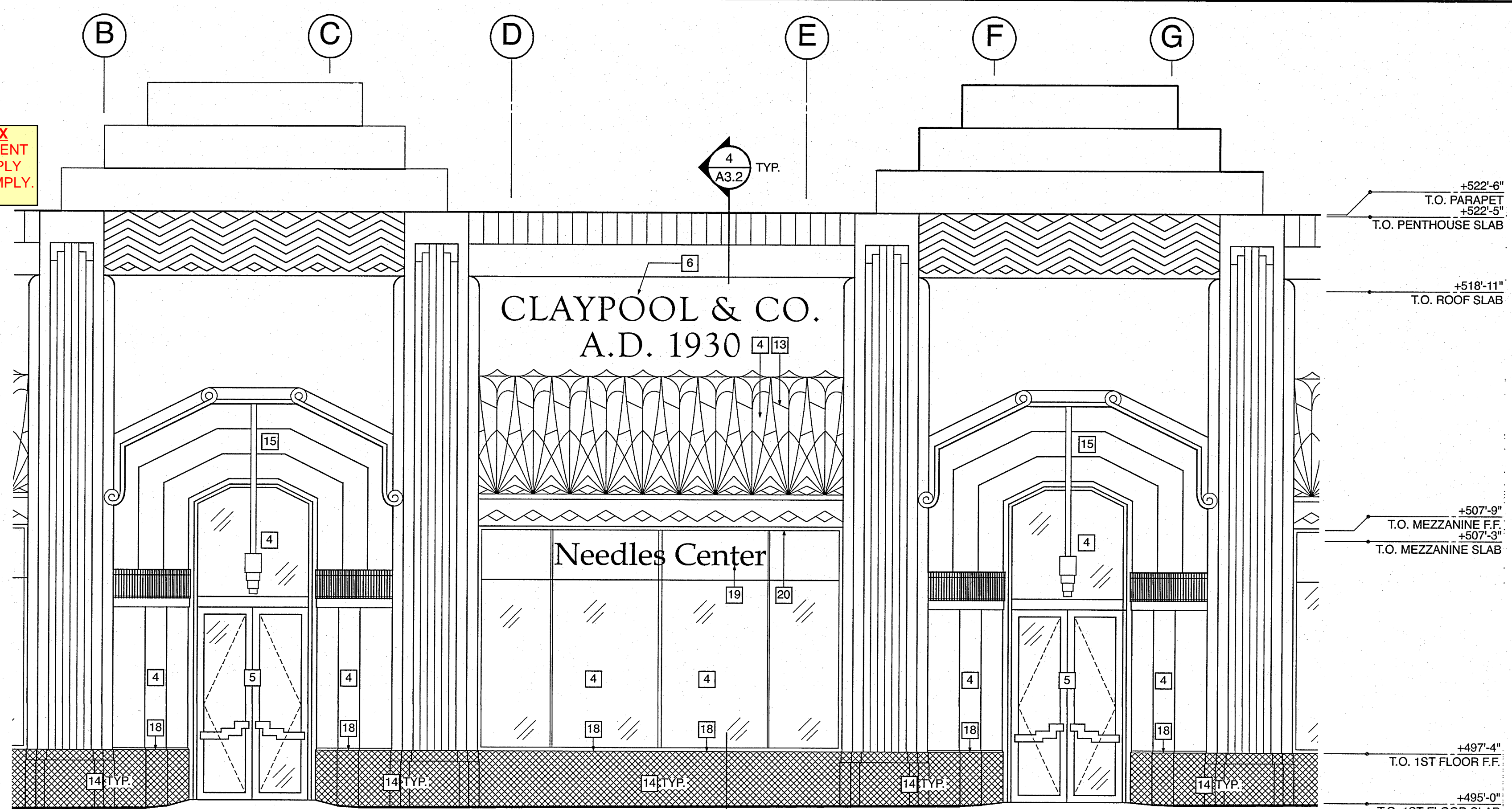
**CLAYPOOL BUILDING RECONSTRUCTION**  
**PALO VERDE COLLEGE, NEEDLES CENTER**  
 PALO VERDE COMMUNITY COLLEGE DISTRICT  
 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363  
**EXTERIOR ELEVATIONS, NORTH & WEST**

DATE	07-06-07	CHECKED	JVT
JOB NO.	2007-SH95-00	DATE	APR 07 2011
DRAWN	RL	SHEET NO.	<b>A3.1</b>

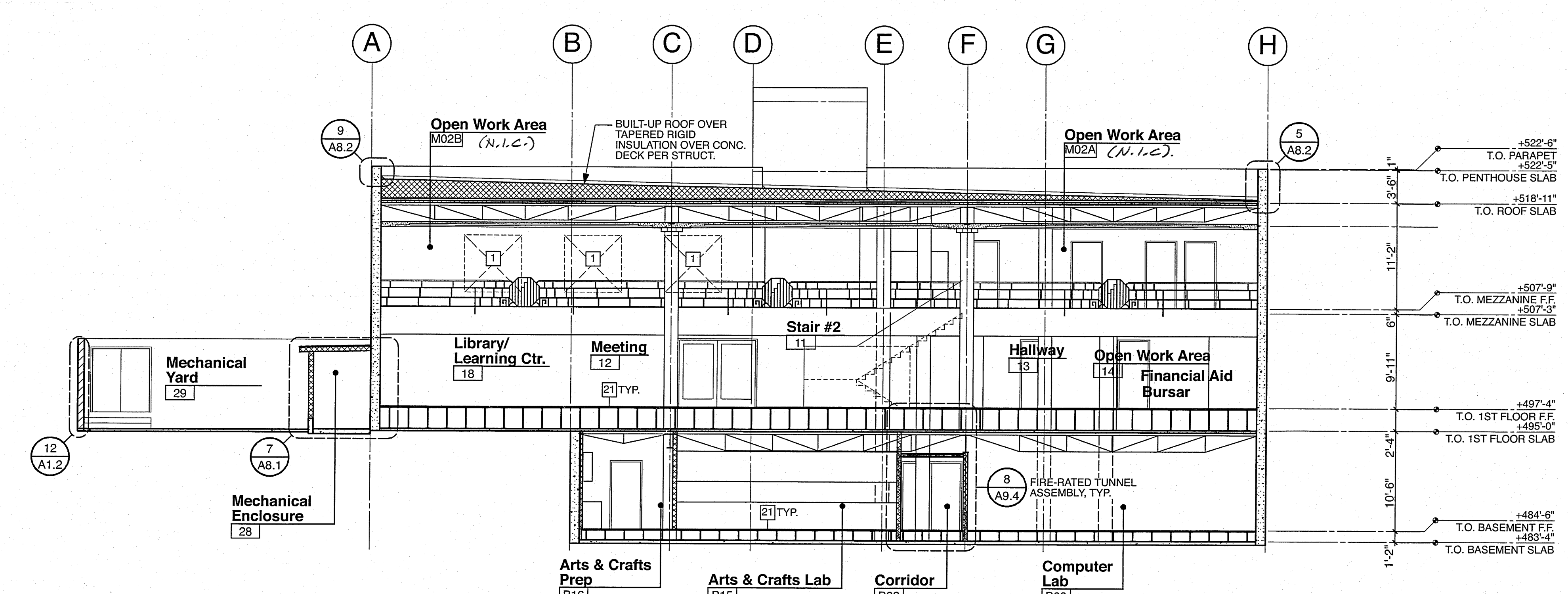




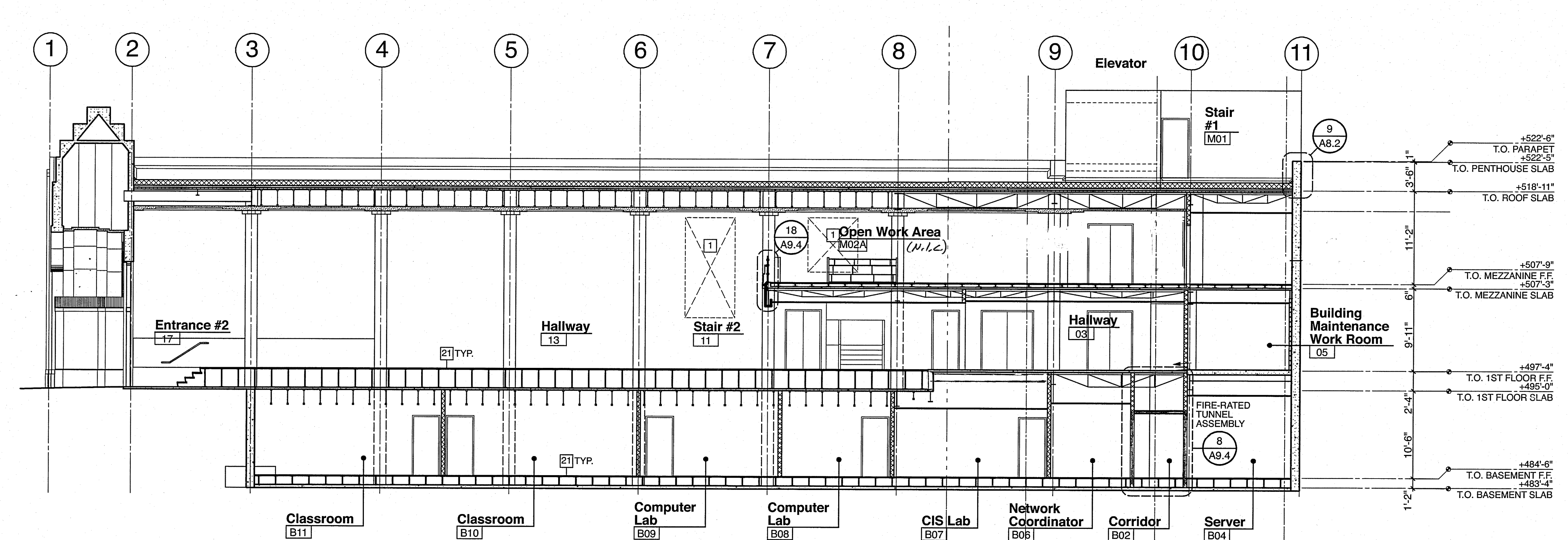
**WALL SECTION 4**  
 SCALE: 1/4"=1'-0"



**PARTIAL NORTH ELEVATION 3**  
 SCALE: 1/4"=1'-0"



**BUILDING SECTION 2**  
 SCALE: 1/8"=1'-0"



**BUILDING SECTION 1**  
 SCALE: 1/8"=1'-0"

- LEGEND:**
- (A) STRUCTURAL GRID
  - (1) DETAIL REFERENCE BUBBLE
  - (A3.0) SECTION REFERENCE BUBBLE

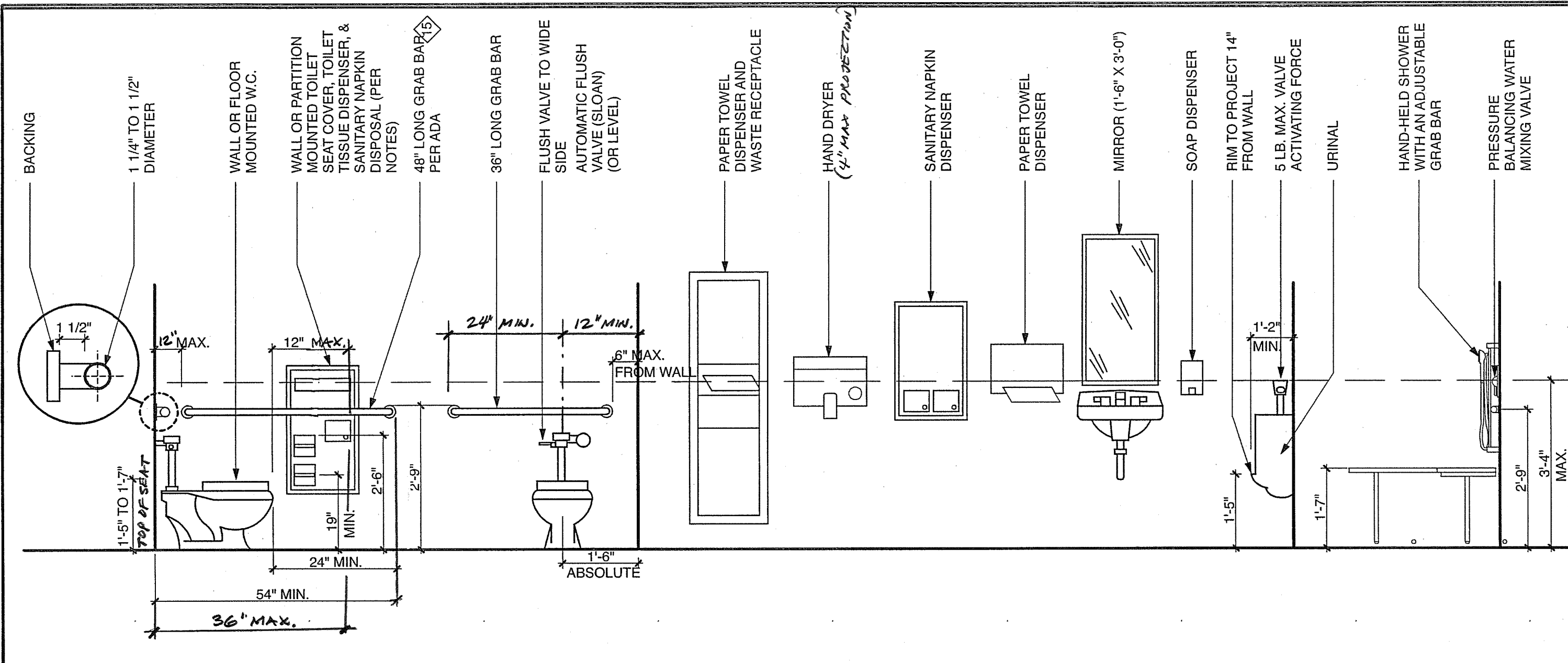
- KEY NOTES**
- 1 (E) OPENING TO BE FILLED IN WITH CONC. WALL PER STRUCT.
  - 2 E.I.F.S. FINISH OVER CONC. WALL (AREA INDICATED AS [hatched])
  - 3 E.I.F.S. REVEALS
  - 4 WINDOW PER WINDOW SCHEDULE
  - 5 DOOR PER DOOR SCHEDULE
  - 6 EXTERIOR SIGNAGE PER SPECS.
  - 7 NEW COLLECTOR HEAD & DOWNSPOUT - PAINTED
  - 8 (E) STONE VENT. CLOSE OFF FROM ATTIC SIDE W/ GALV. SHEET METAL. AT CONTRACTOR'S OPTION, VENT CAN BE CLOSED OFF FROM EXTERIOR SIDE & REPLICA OF EXIST. VENT CAN BE INSTALLED FLUSH W/ E.I.F.S. SURFACE.
  - 9 (E) GALV. IRON LOUVER VENT TO BE CLOSED OFF FROM EXTERIOR SIDE.
  - 10 MECH. DUCT OPENING
  - 11 (NOT USED)
  - 12 (E) IRON GRILLE TO REMAIN
  - 13 IRON GRILLE TO MATCH PROFILE SHOWN ON ELEVATION.
  - 14 BLACK TILE PER SPEC. (AREA INDICATED AS [hatched]) T.O. BLACK TILE TO MATCH 1ST FLOOR FINISH ELEVATION
  - 15 BLACK GLASS ADHERED TO WALL
  - 16 EXIST. CONC. SILL TO BE CONCEALED BEHIND E.I.F.S.
  - 17 MECH. YARD WALL, PLASTER OVER CMU. SEE A9.1
  - 18 SILL HEIGHT TO BE FLUSH WITH 1ST FLOOR FINISH ELEVATION
  - 19 SIGN PER SPEC.
  - 20 LIGHTS ABOVE SIGNAGE, TYP.
  - 21 RAISED FLOOR PER SPEC.

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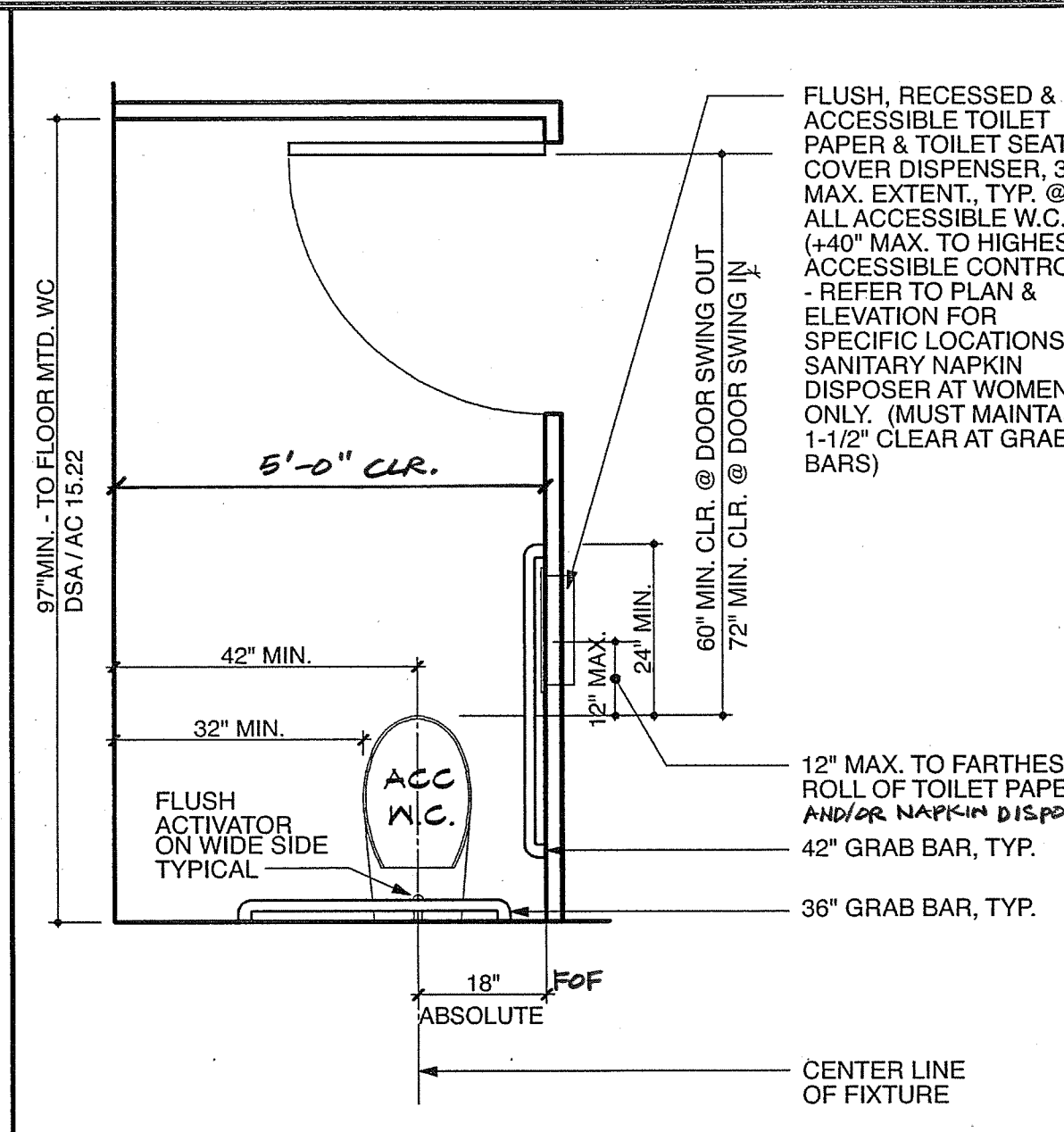
BUILDING SECTIONS  
 CLAYPOOL BUILDING RECONSTRUCTION  
 PALO VERDE COLLEGE, NEEDLES CENTER  
 PALO VERDE COMMUNITY COLLEGE DISTRICT  
 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363

DATE 07-06-07  
 JOB NO. 2007-SH95-00  
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 CHECKED JVT  
 SHEET NO. A3.2  
 SHEET OF

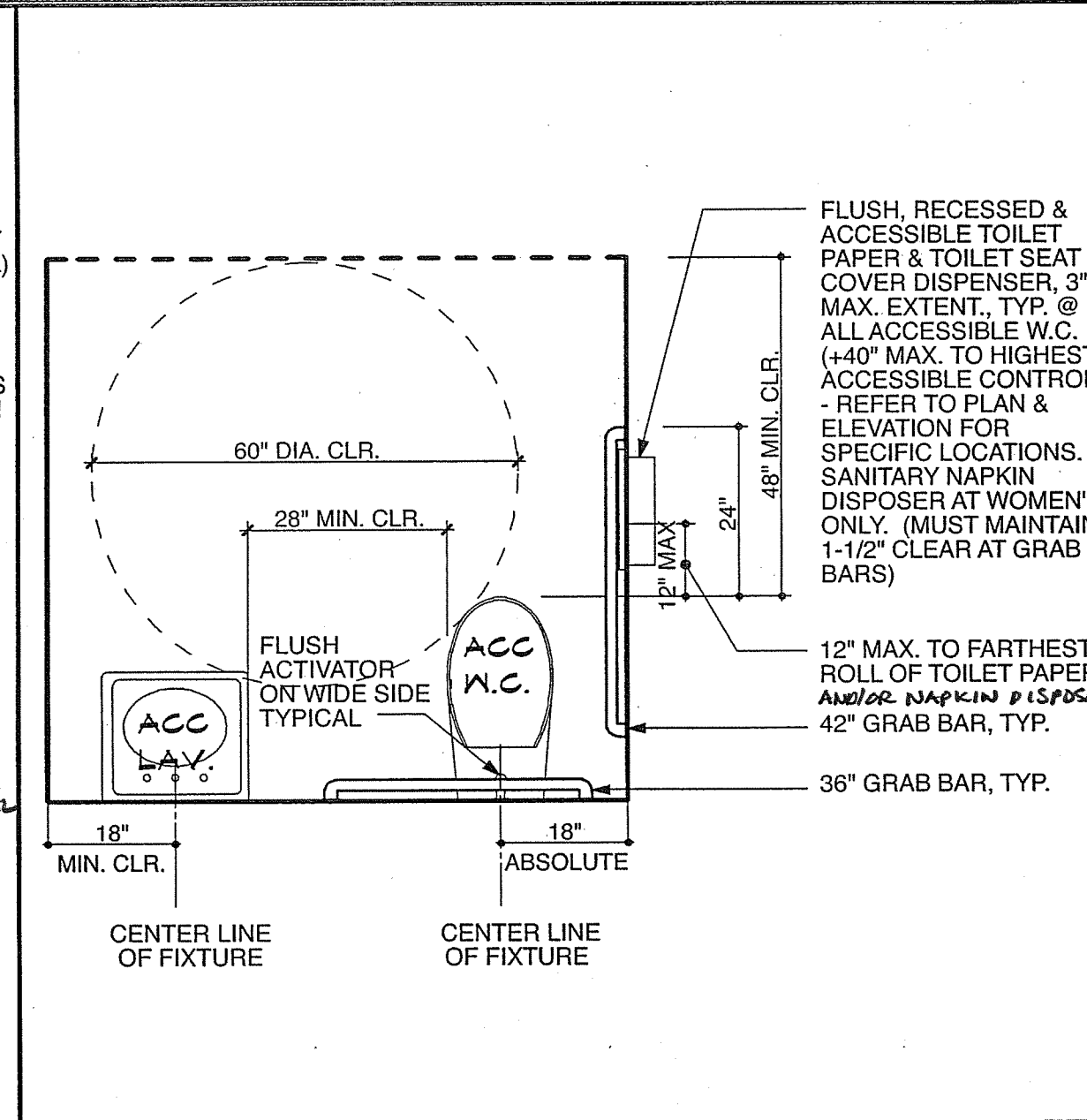
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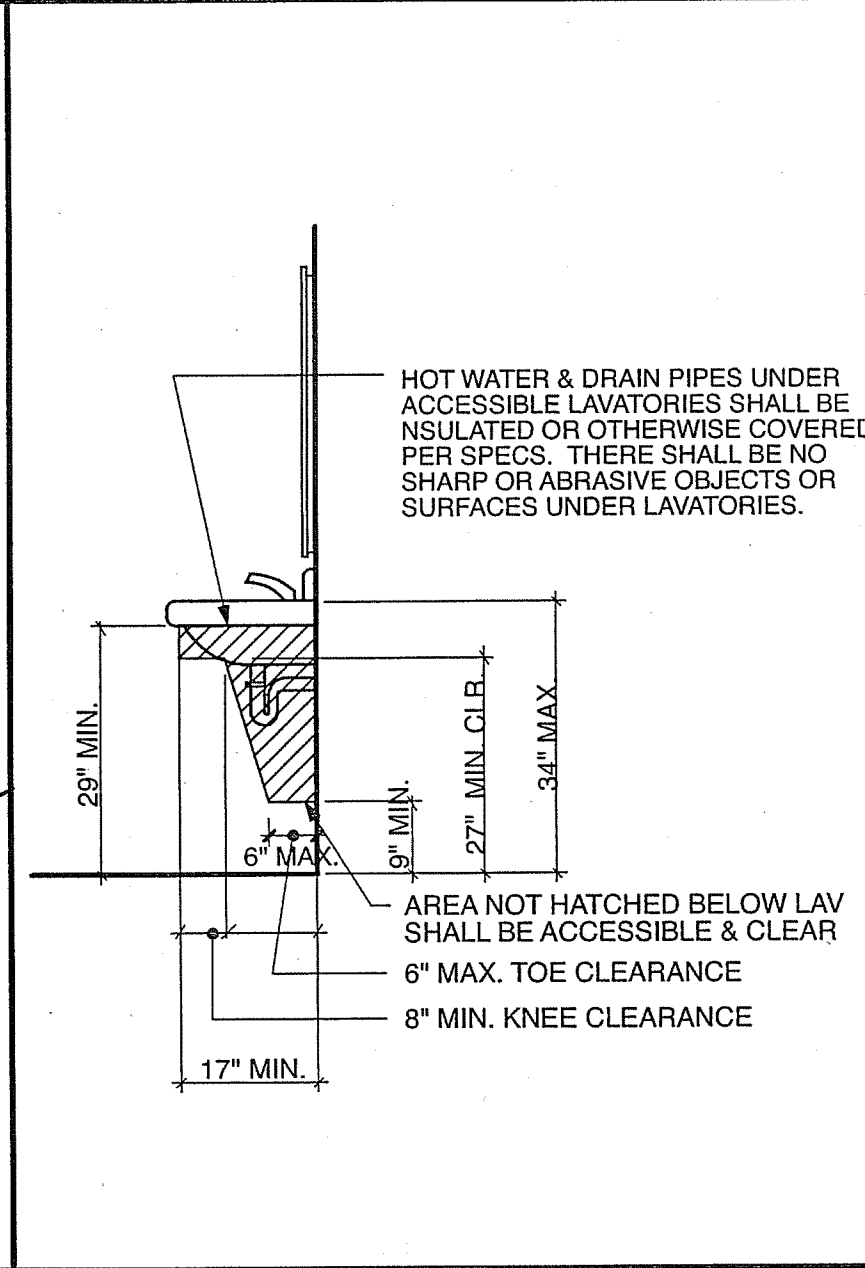
TYP. MOUNTING HEIGHT FOR TOILET ROOM ACCESSORIES 1/2" = 1'-0" 12



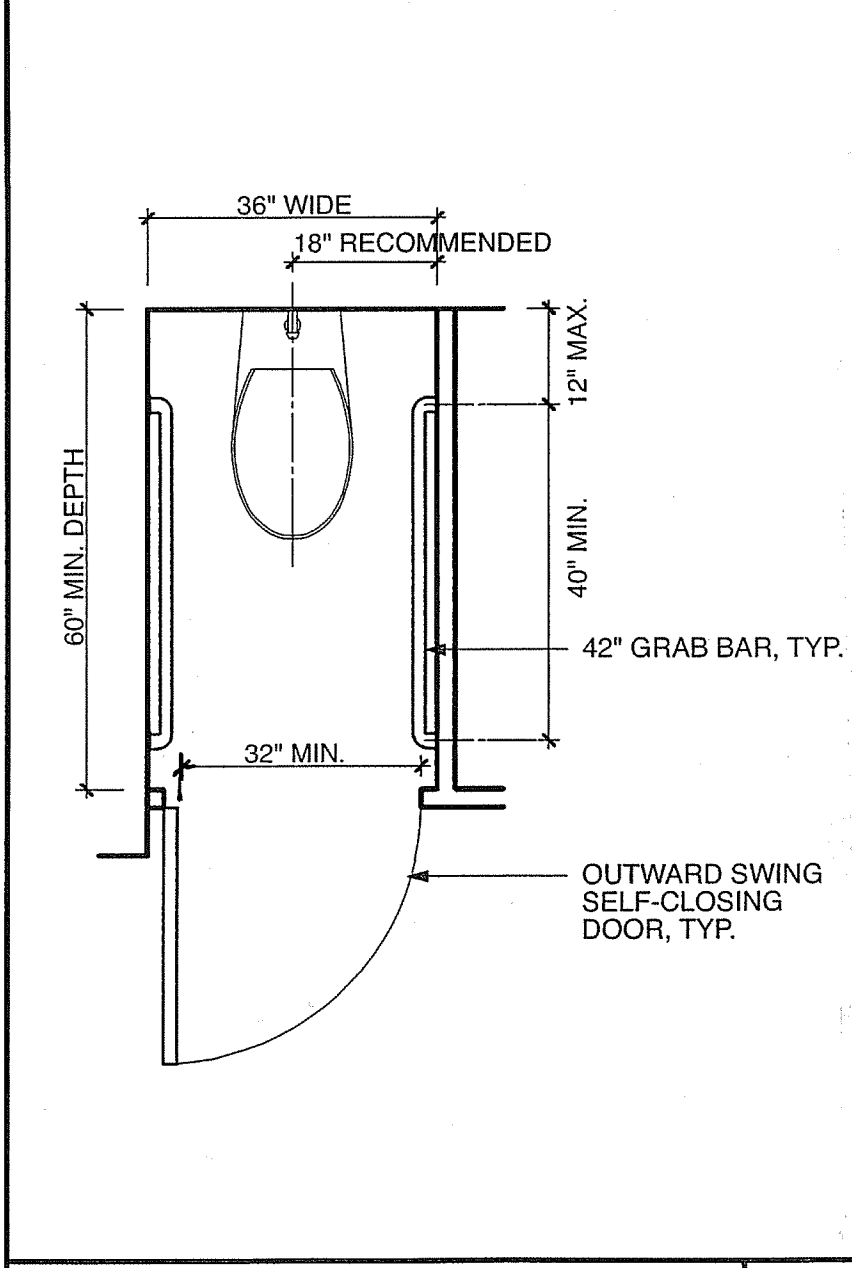
TYP. ACCESSIBLE STALL IN MULTI-ACCOMMODATION RESTRM. 1/2" = 1'-0" 11



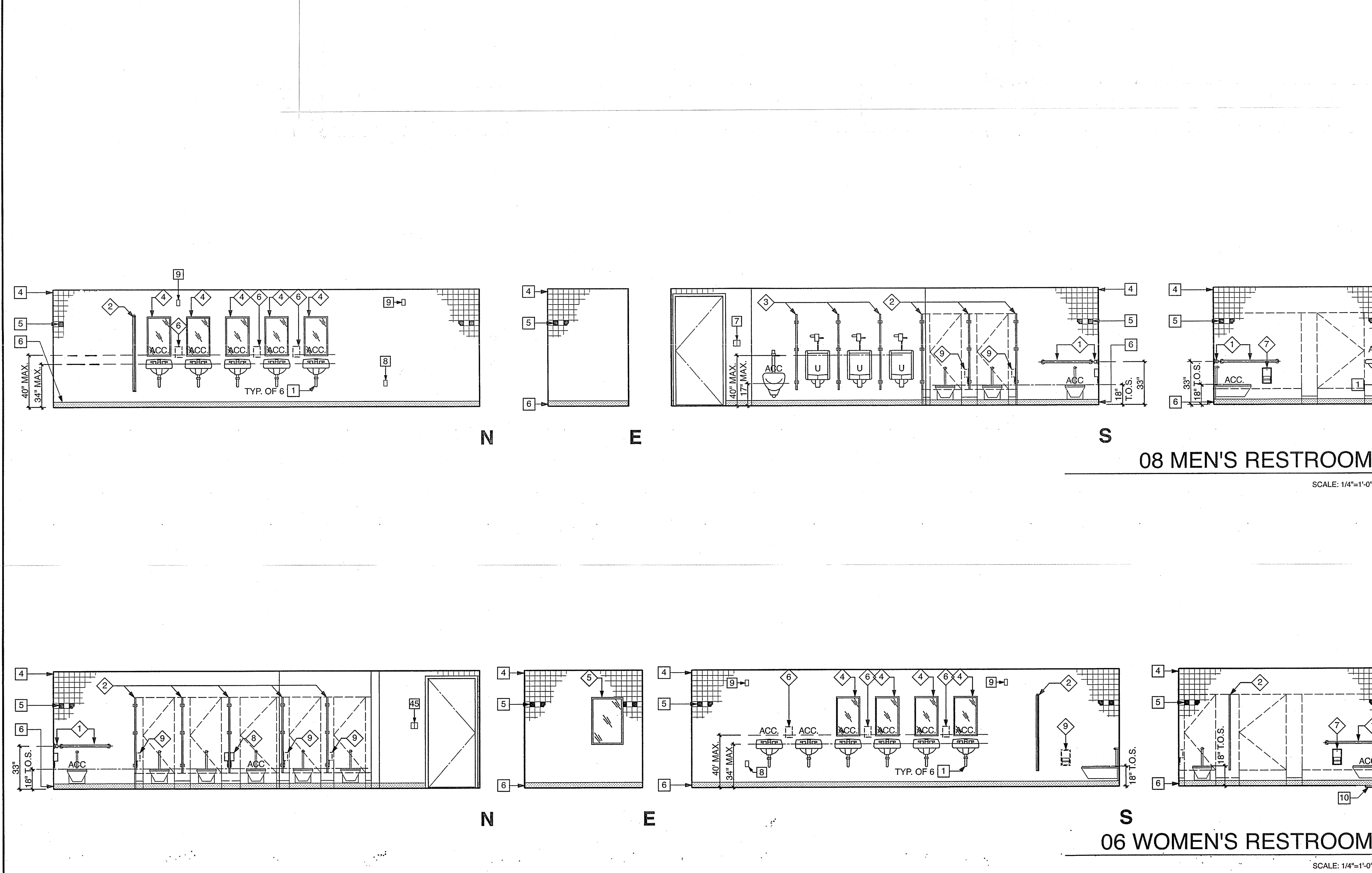
TYP. SINGLE ACCOMMODATION ACCESSIBLE RESTROOM 1/2" = 1'-0" 10



TYP. CLEARANCES FOR ACC. LAVATORY 1/2" = 1'-0" 9

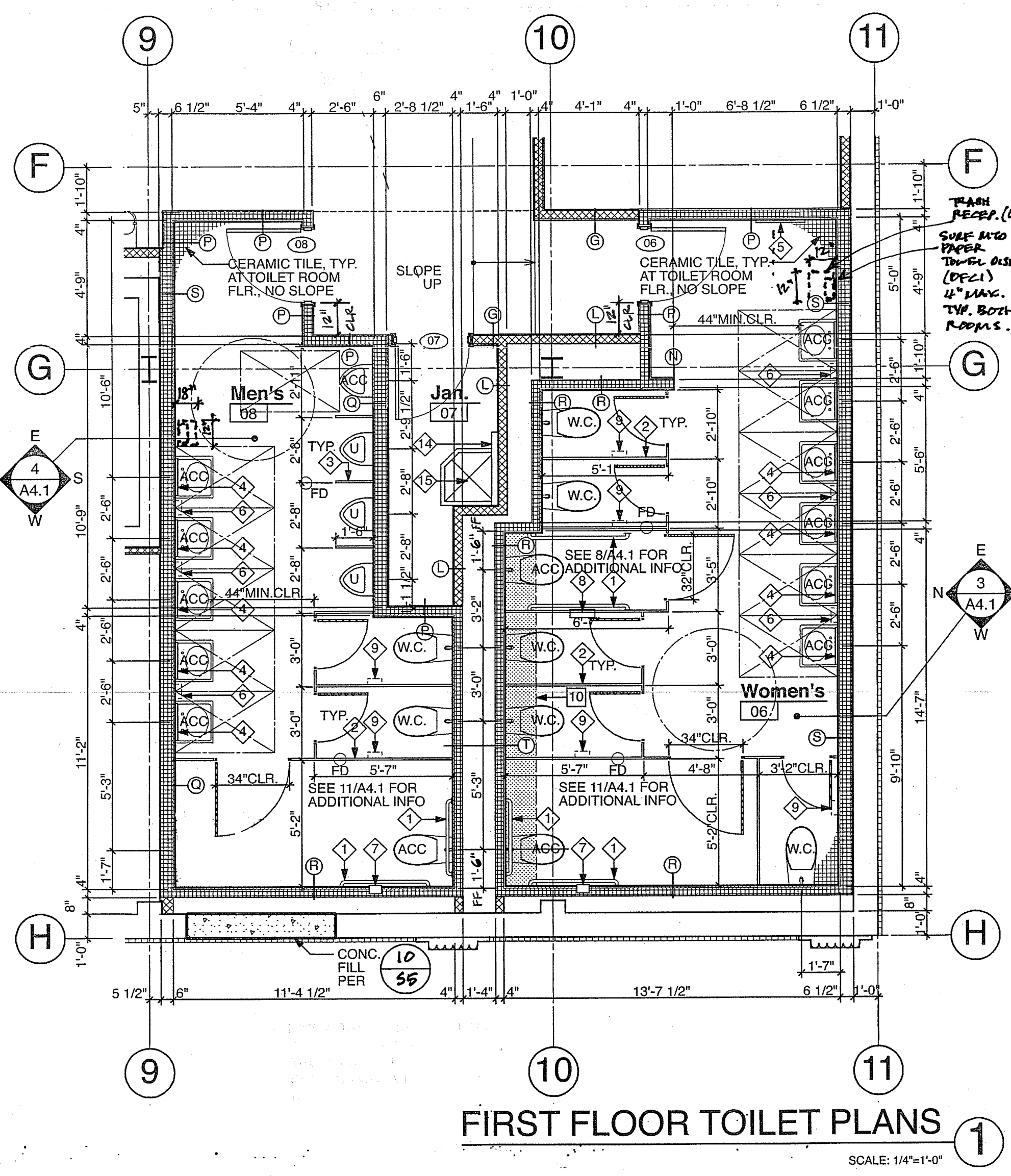


TYP. SEMI-AMBULATORY TOILET STALL 1/2" = 1'-0" 8



08 MEN'S RESTROOM SCALE: 1/4" = 1'-0" 4

06 WOMEN'S RESTROOM SCALE: 1/4" = 1'-0" 3



FIRST FLOOR TOILET PLANS 1

**NOTES:**

1. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD. ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS OR MISSING DIMENSIONS FOR CORRECTION BEFORE PROCEEDING WITH WORK.
2. ALL DIMENSIONS TO METAL STUD PARTITIONS ARE TO FACE OF STUDS, UNLESS NOTED OTHERWISE. "CLR." OR "MIN." DIMENSIONS SHALL BE TO FACE OF FINISHES, U.N.O.
3. DOORS SHALL BE LOCATED IN CENTER OF WALL WITHIN SPACE SERVED UNLESS OTHERWISE NOTED ON THE PLANS. WHERE DOOR IS LOCATED NEXT TO A WALL, THERE SHALL BE A 3-1/2\"/>

**KEY NOTES**

- 1 INSULATE HOT WATER PIPING & WASTE @ SINK
- 2 W.P. DRY WALL, PAINTED
- 3 VINYL BASE
- 4 CERAMIC TILE: CT-1
- 5 CERAMIC TILE: CT-2/CT-3
- 6 CERAMIC TILE: CT-4
- 7 ELECTRICAL SWITCH/OCCUPANCY SENSOR PER ELECTRICAL
- 8 ELECTRICAL OUTLET PER ELECTRICAL
- 9 FIRE ALARM DEVICE PER ELECTRICAL
- 10 FILL WITH CONCRETE TO LEVEL SLAB

COMPLY WITH CBC CH. 8, TABLE 8A & 8B FOR FLAME SPREAD & SMOKE RATING

**TOILET ACCESSORIES**

- 1 S.S. GRAB BAR WITH CONCEALED FASTENERS WITH ANCHOR SYSTEM PER MFR'S REQUIREMENTS (B-5806) (REFER TO DETAIL 7A8.7), ADA APPROVED
- 2 TOILET PARTITIONS PER SPECIFICATIONS
- 3 URINAL PARTITIONS PER SPECIFICATIONS
- 4 MIRROR WITH STAINLESS STEEL CHANNEL FRAME (B-165 1830)
- 5 MIRROR WITH STAINLESS STEEL CHANNEL FRAME (B-165 2436)
- 6 SURFACE MOUNTED SOAP DISPENSER (O.F.O.I.), PROVIDE METAL STUD BACKERS AS REQUIRED - 4\"/>

NOTE: BOBRICK NUMBERS ARE PROVIDED FOR REFERENCE. APPROVED EQUALS ARE ACCEPTABLE. REFER TO SPECIFICATIONS.

NOTE: WHERE CERAMIC TILE OCCURS IN TOILET ROOMS, CONTINUE INSTALLATION OF THE CERAMIC TILE BEHIND ALL MIRRORS AND SURFACE-MOUNTED ACCESSORIES.

NOTE: FOR TYPICAL ACCESSIBLE MOUNTING DIMENSIONS REFER TO: 10 A4.1, 11 A4.1, 12 A4.1

NOTE: FOR TYPICAL EQUIPMENT AND FIXTURE MOUNTING HEIGHT, REFER TO: 12 A4.1

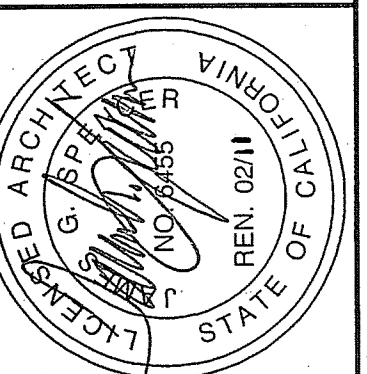
NOTE: PROVIDE MTL. STUD BACKER AS REQUIRED PER 12 A9.7 TYP.

**WALL TYPES:** REFER TO 1 A8.1

- A EXIST. CONC. WALL TO REMAIN
- B E.L.F.S. OVER EXIST. CONC. WALL - SEE A8.1 FOR EXACT LOCATION
- C EXIST. WOOD STUD PLASTER WALL TO REMAIN
- D 4\"/>

NO.	DATE	REVISIONS

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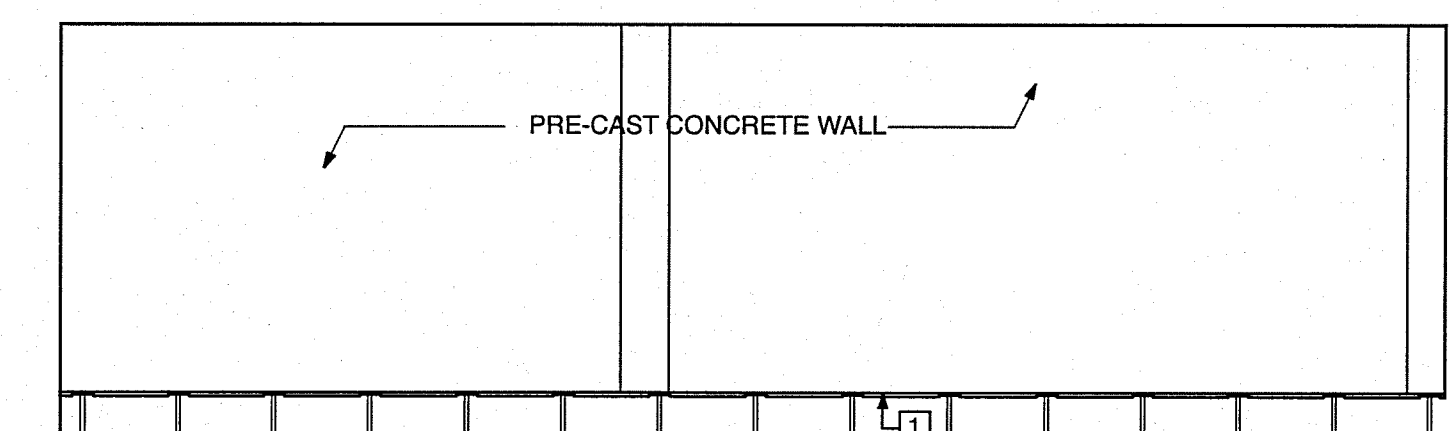
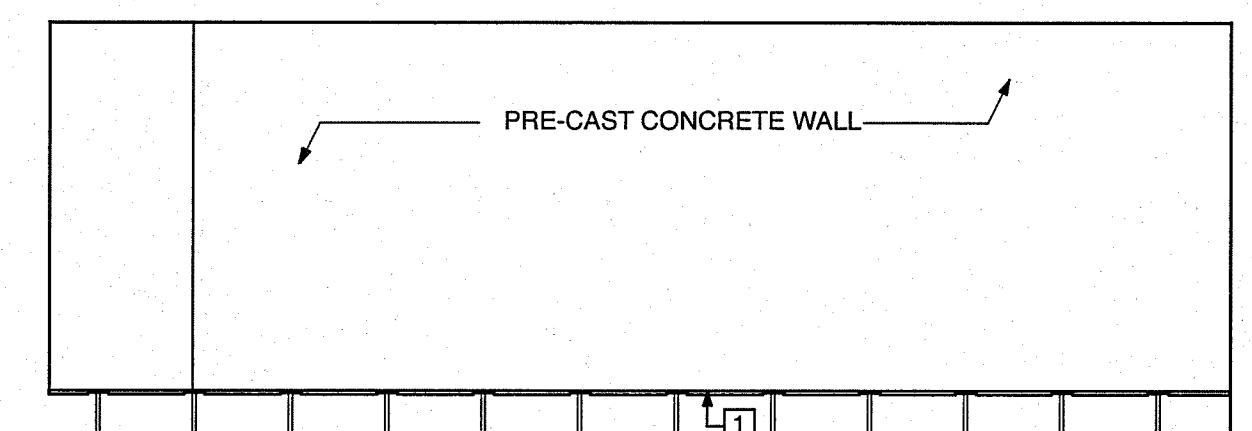
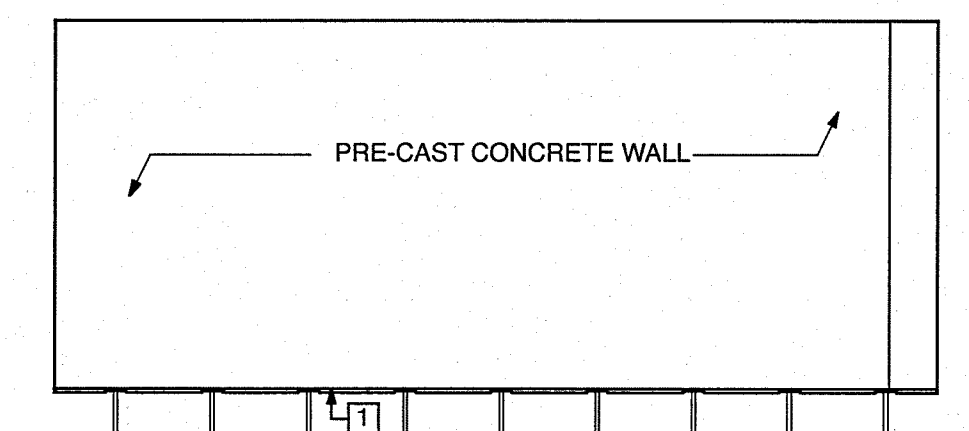
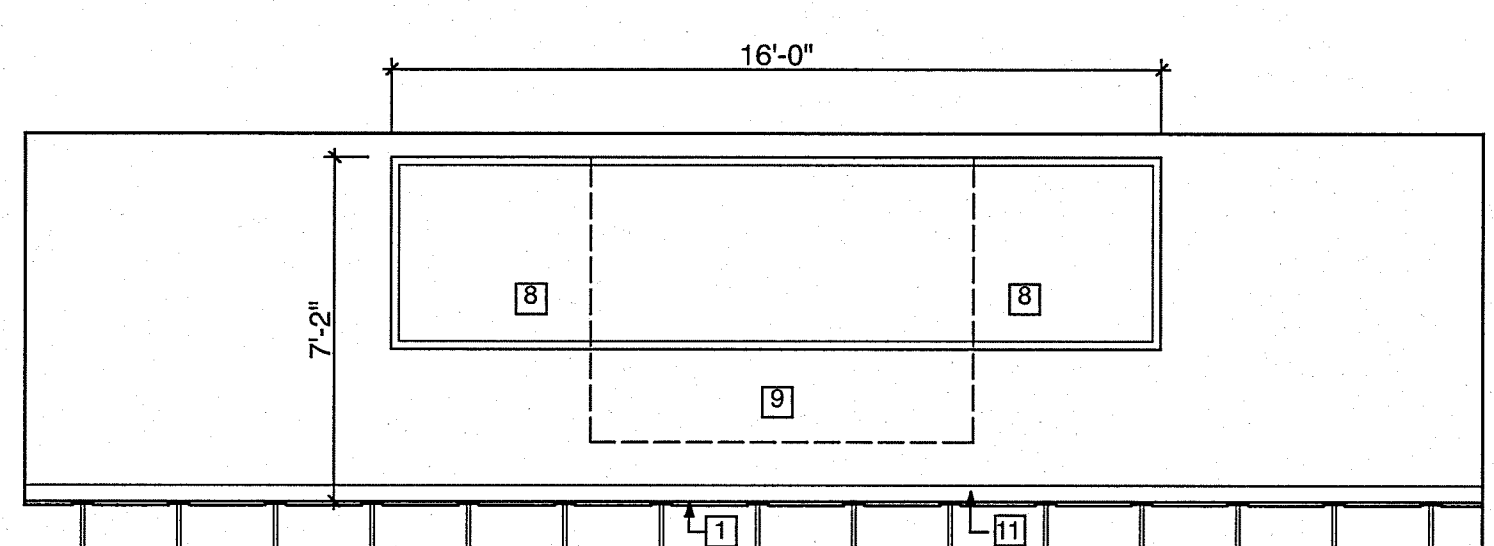
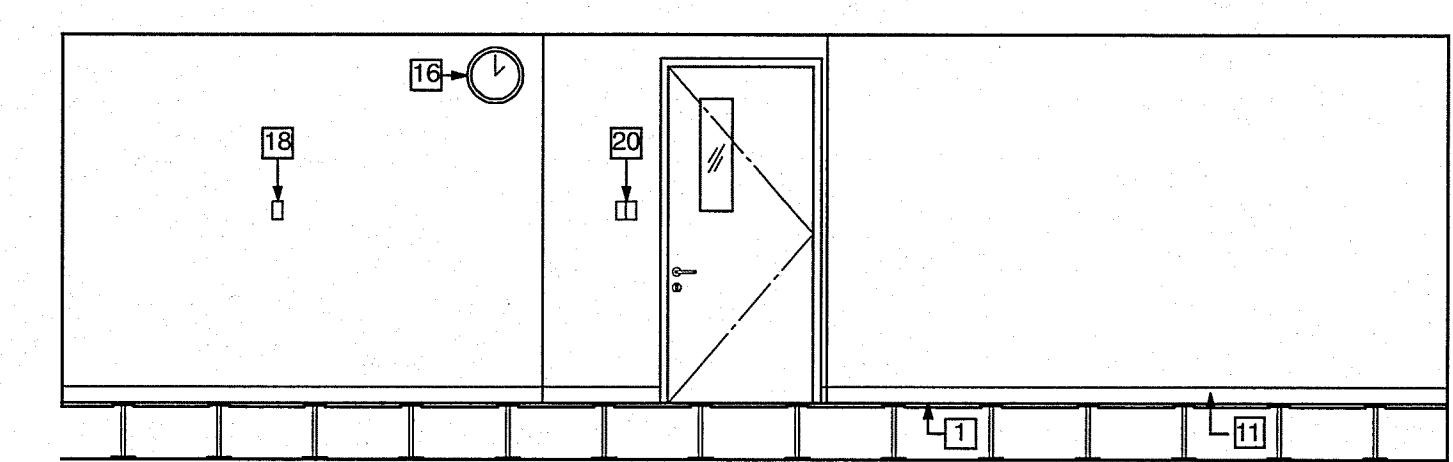
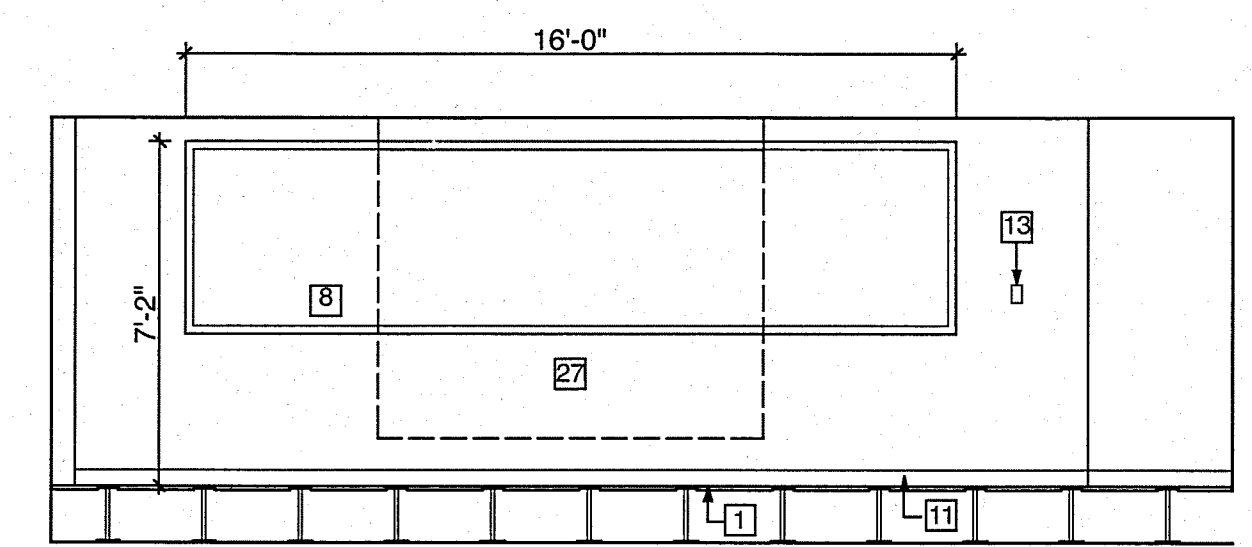
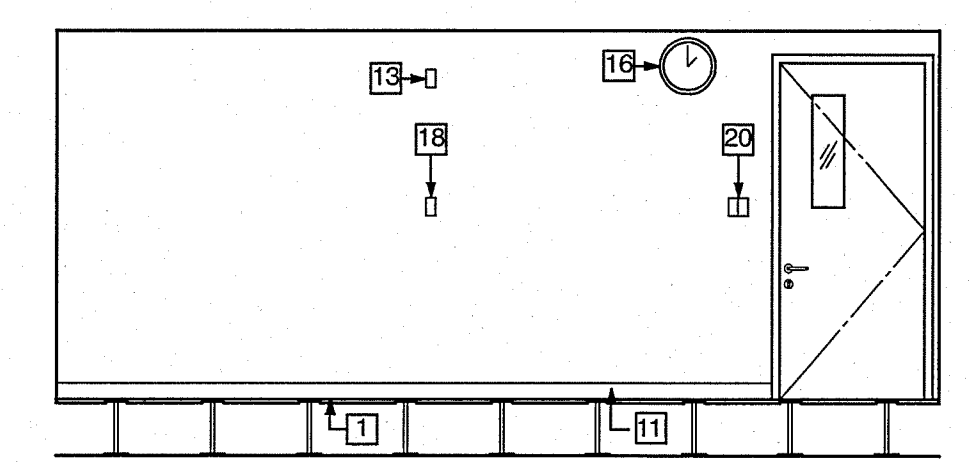
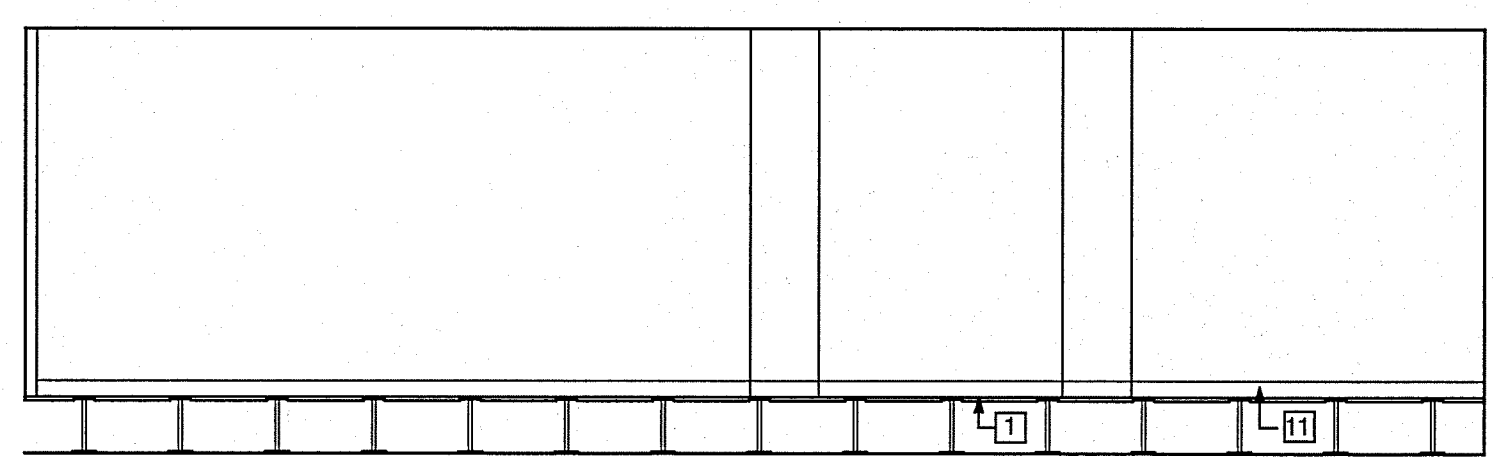


**CLAYPOOL BUILDING RECONSTRUCTION**  
**PALO VERDE COLLEGE, NEEDLES CENTER**  
 PALO VERDE COMMUNITY COLLEGE DISTRICT  
 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363

DATE: 07-06-07  
 JOB NO.: 2007-SH95-00  
 DRAWN: KK  
 CHECKED: JVT

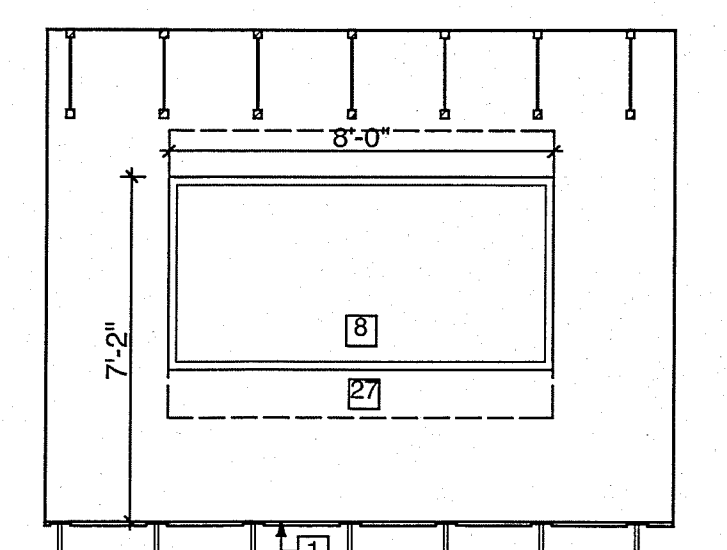
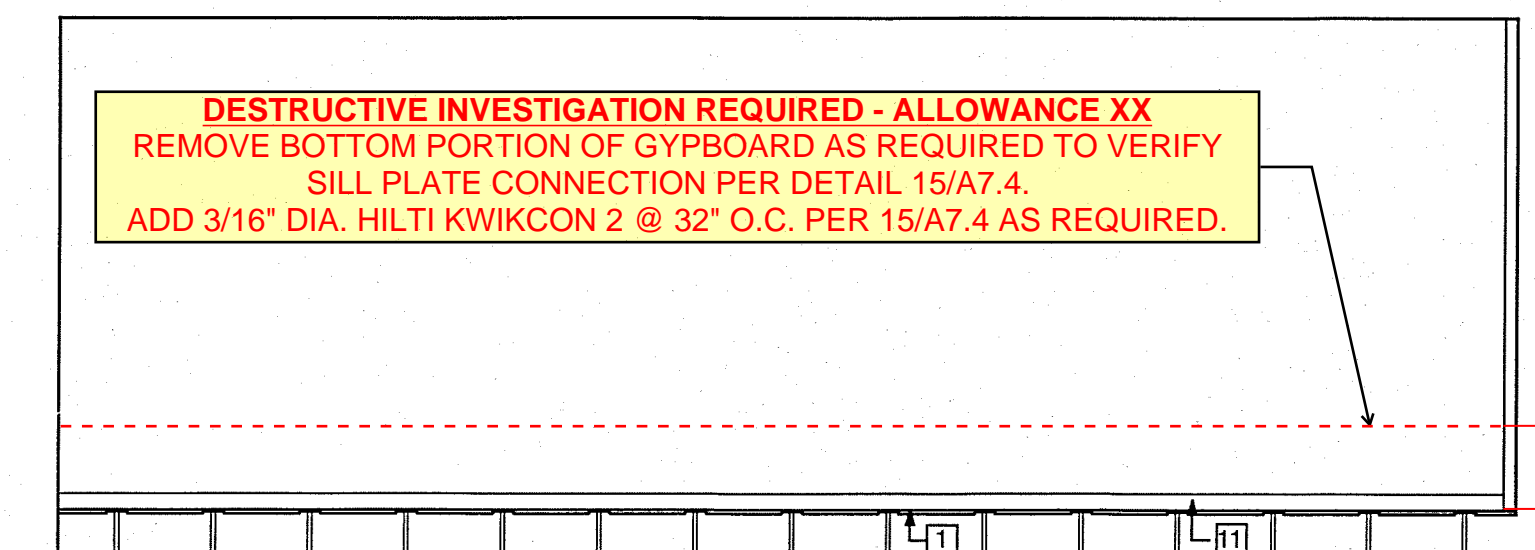
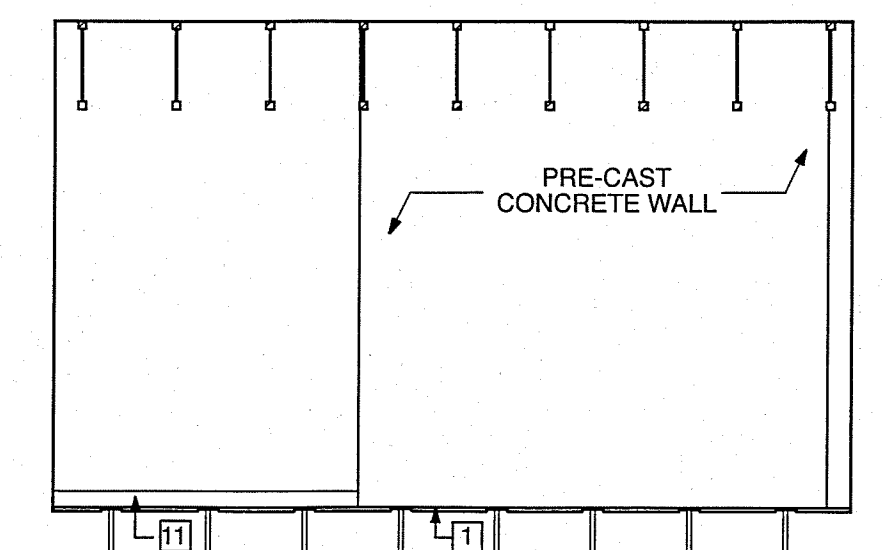
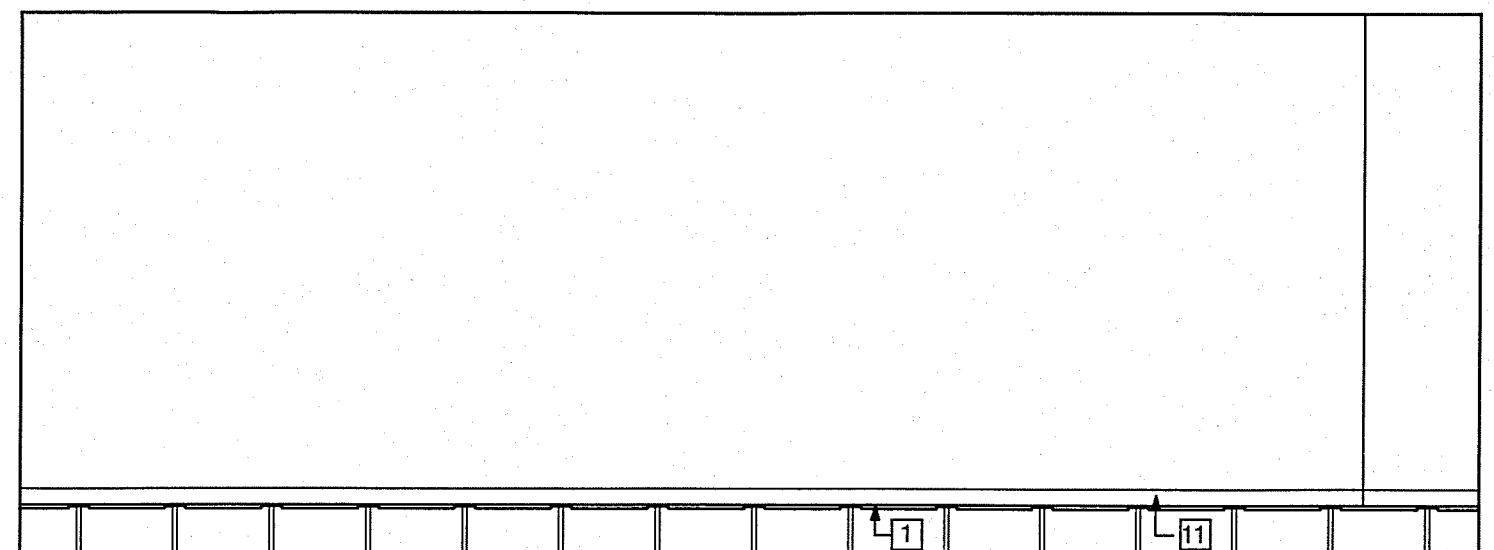
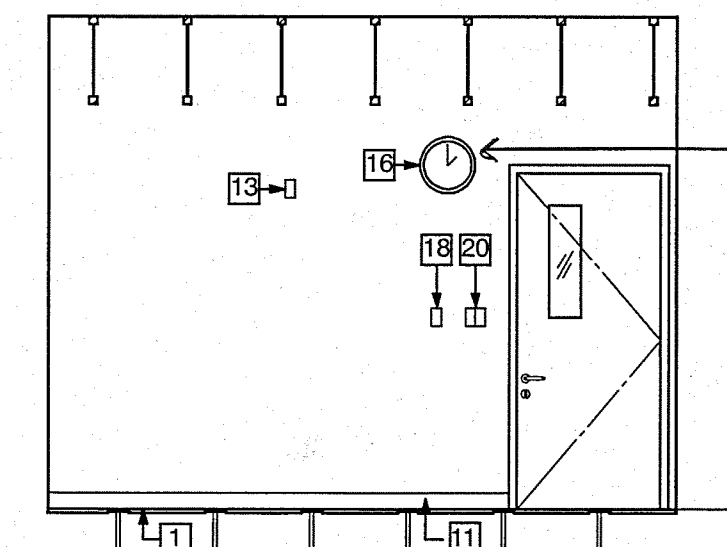
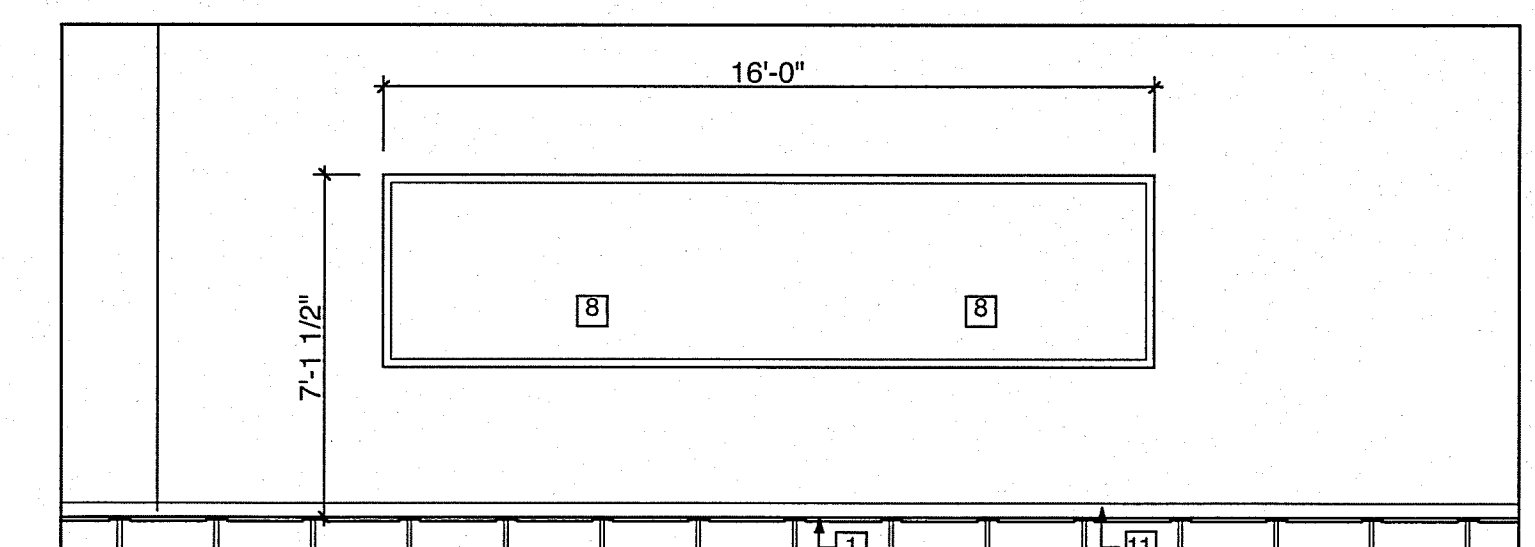
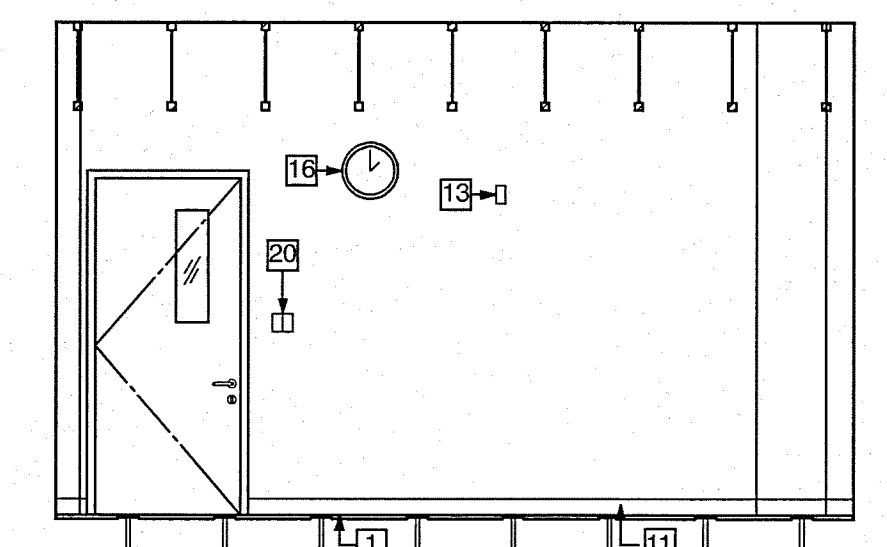
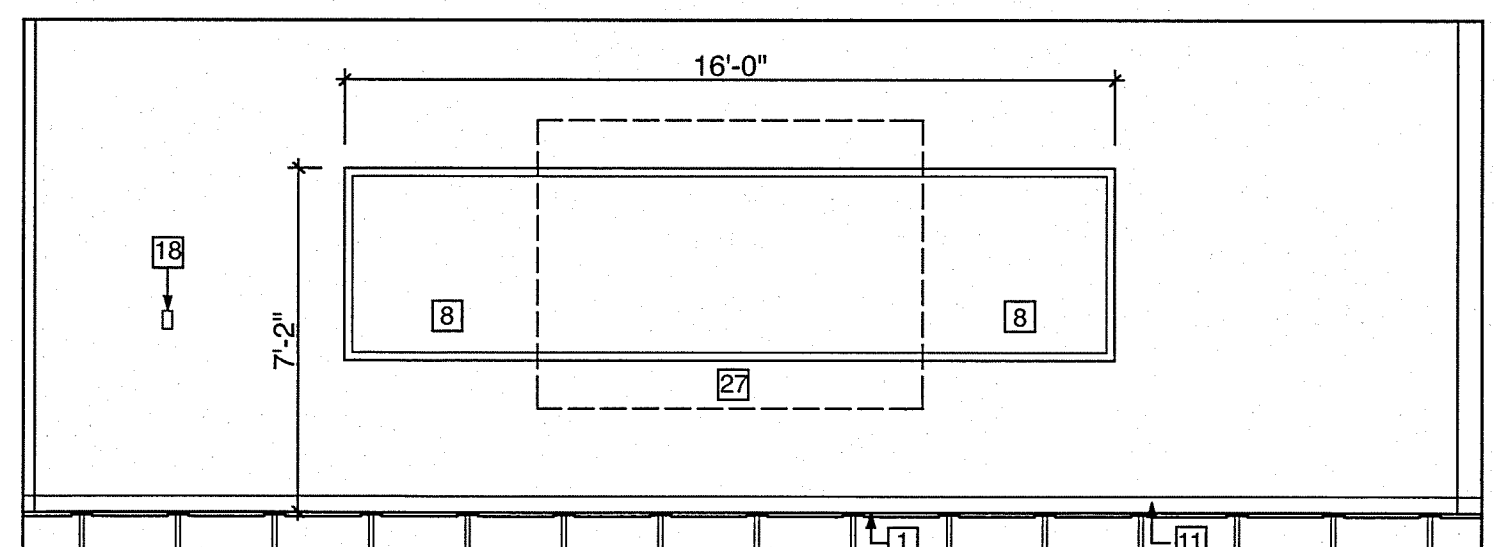
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DATE: APR 07 2011  
 110562



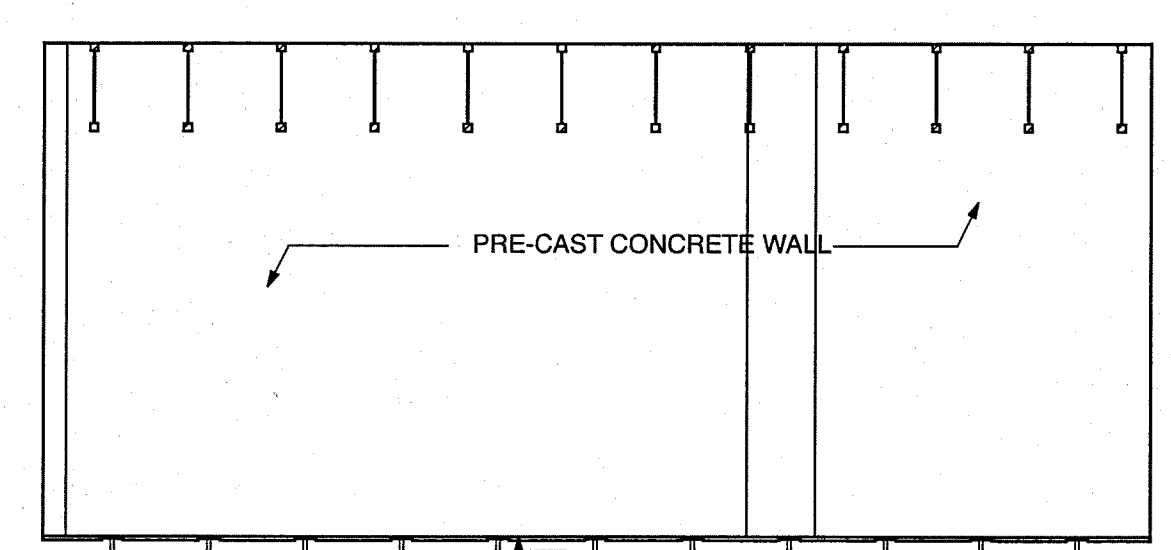
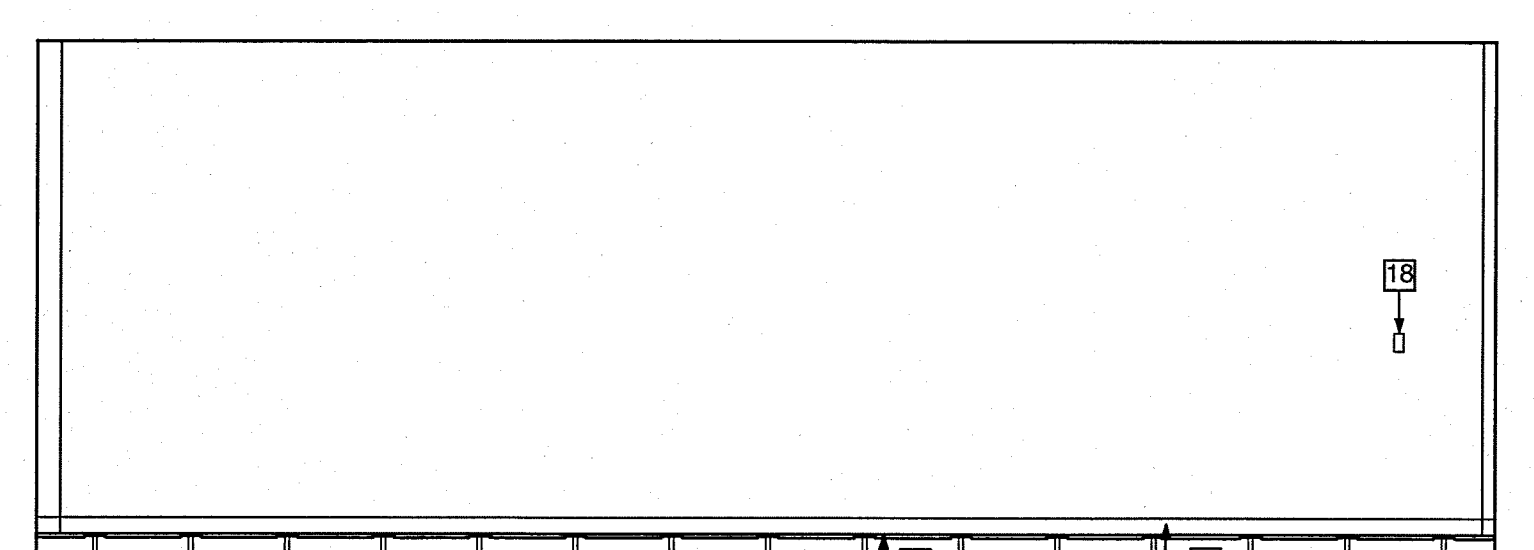
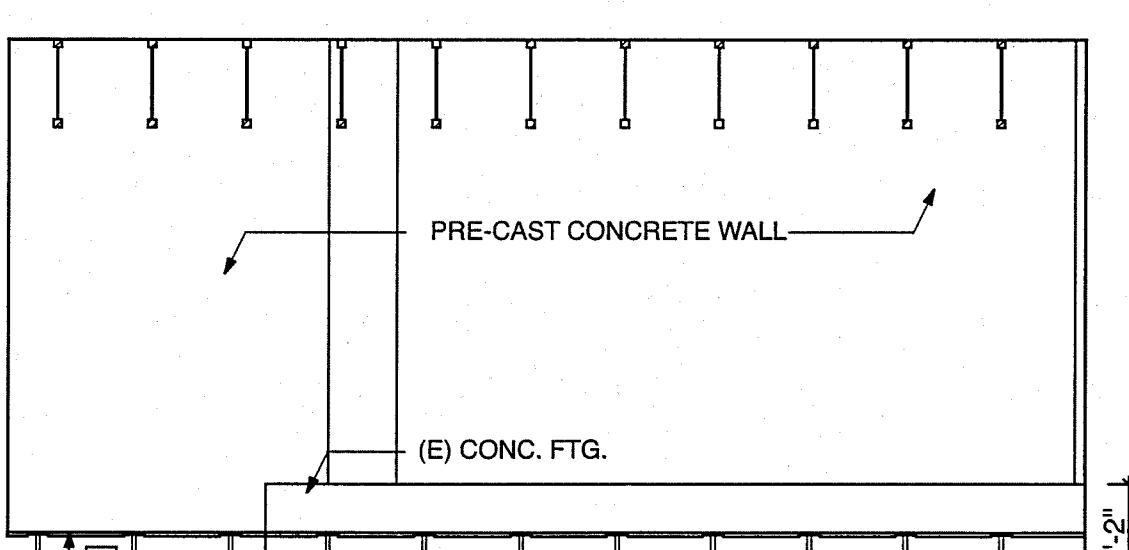
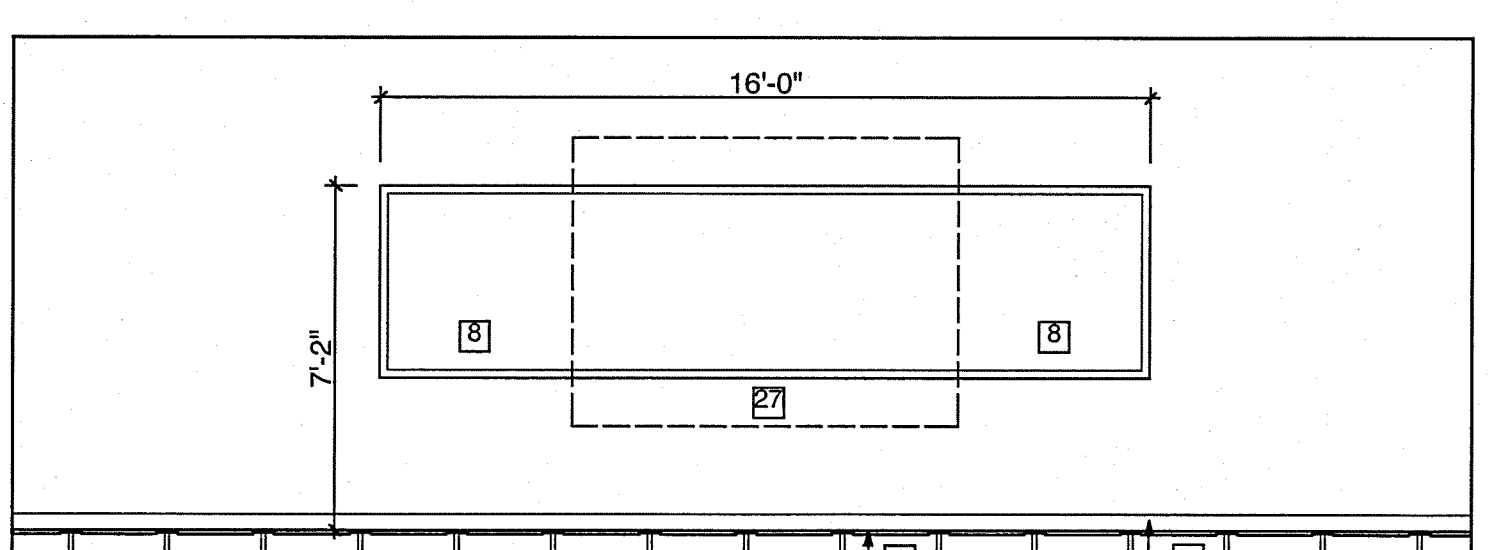
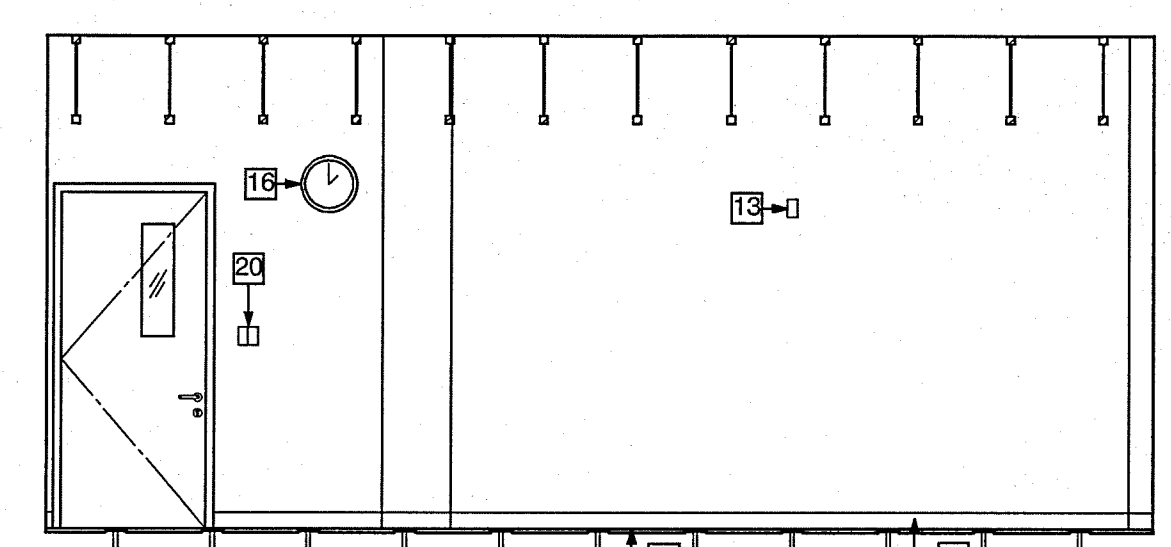
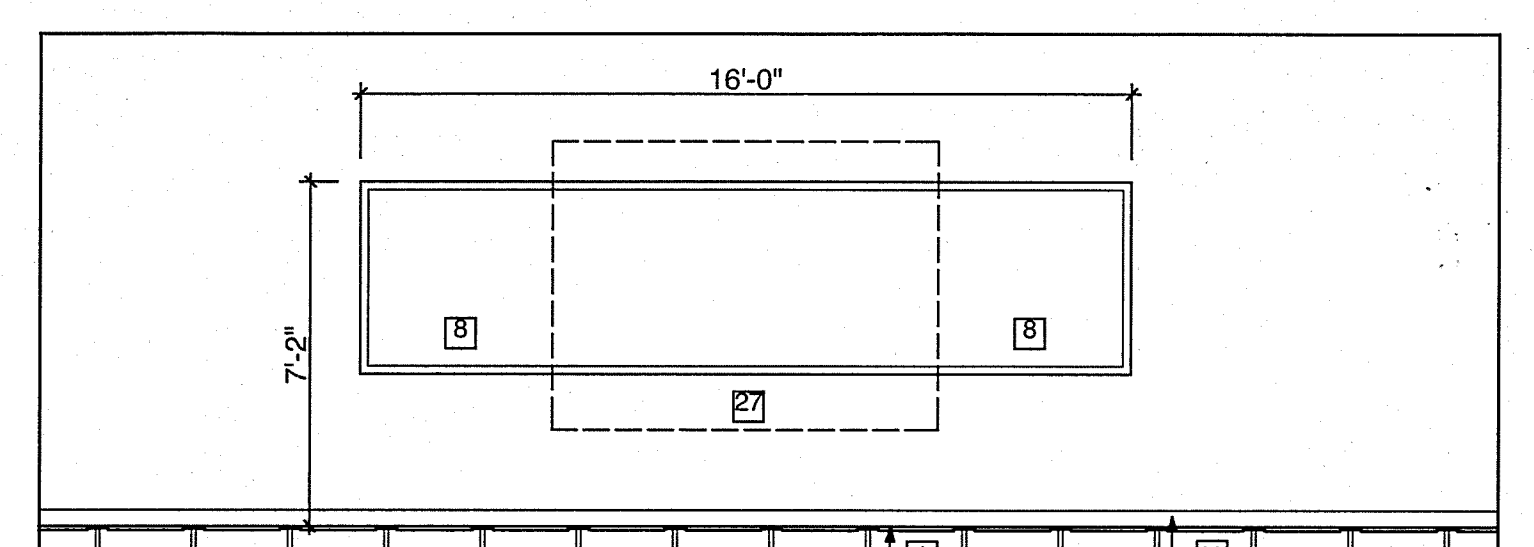
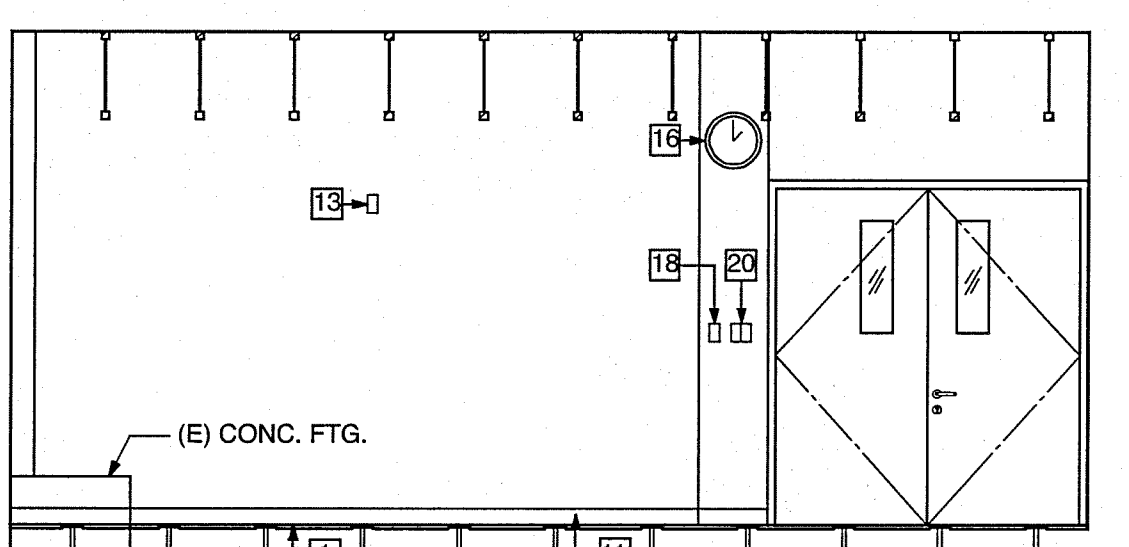
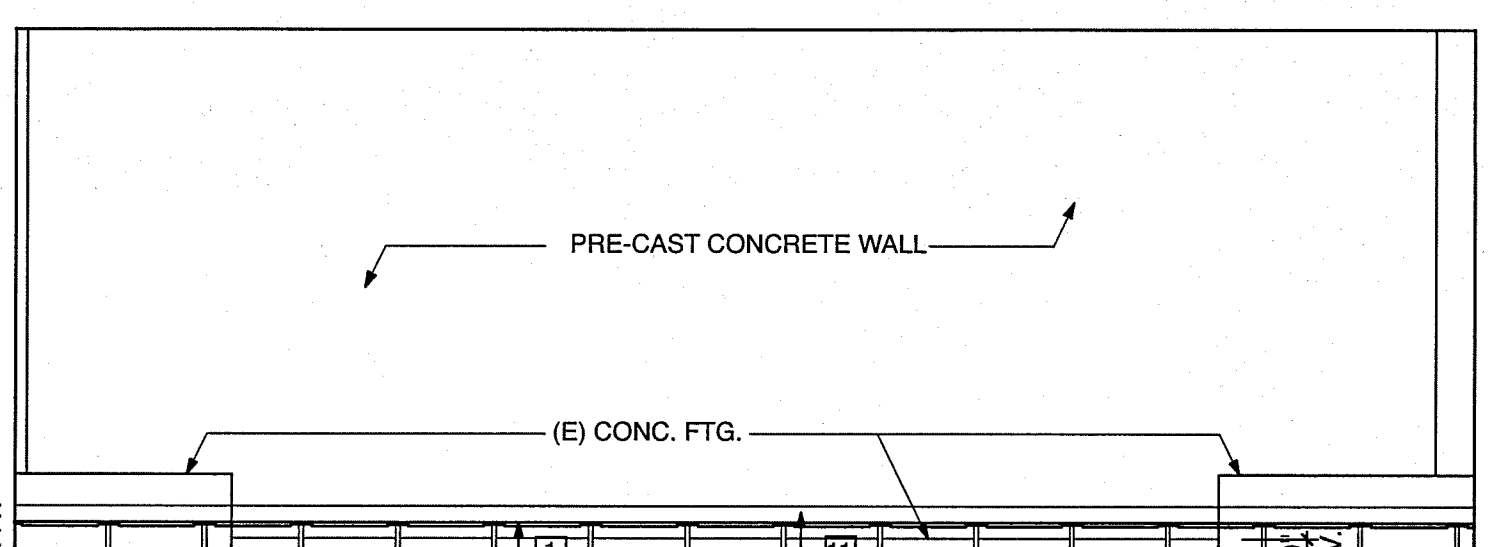
B 07 CIS LAB ②  
SCALE: 1/4"=1'-0"

B 05 COMPUTER GRAPHICS/DIGITAL IMAGERY ①  
SCALE: 1/4"=1'-0"



B 09 COMPUTER LAB ④  
SCALE: 1/4"=1'-0"

B 08 COMPUTER LAB ③  
SCALE: 1/4"=1'-0"



B11 CLASSROOM ⑥  
SCALE: 1/4"=1'-0"

B10 CLASSROOM ⑤  
SCALE: 1/4"=1'-0"

- KEY NOTES:**
- ① RAISED FLOOR PER SPECIFICATIONS
  - ② FORMED COVE & SPLASH
  - ③ ADJUSTABLE SHELVES - PLASTIC LAMINATE FINISH
  - ④ SOLID SURFACING COUNTERTOP (CORIAN)
  - ⑤ ACCESSIBLE SINK
  - ⑥ DISPLAY CASE PER SPECIFICATIONS
  - ⑦ INSULATE HOT WATER DRINK & WASTE AT SINK
  - ⑧ MARKERBOARD PER 10 A9.7
  - ⑨ 8' X 6' PULL DOWN PROJECTION SCREEN WALL MOUNTED SET TOP OF SCREEN @ +8'-0"
  - ⑩ WINDOW PER SCHEDULE. SEE 7/8/9/A.6
  - ⑪ BASE PER FINISH SCHEDULE
  - ⑫ REMOVABLE TOE BOARD @ ACCESSIBLE SINK
  - ⑬ FIRE ALARM DEVICE PER ELECTRICAL
  - ⑭ ELECTRICAL OUTLET PER ELECTRICAL
  - ⑮ UNDER CABINET LIGHT FIXTURE PER ELECTRICAL
  - ⑯ CLOCK PER ELECTRICAL, LOCATE C.L. @ +86" A.F.F. U.N.O.
  - ⑰ ELECTRICAL PANEL PER ELECTRICAL
  - ⑱ THERMOSTAT PER MECHANICAL
  - ⑲ FIRE EXTINGUISHER CABINET (FIRE RATED AT CORRIDOR)
  - ⑳ ELECTRICAL SWITCH/OCCUPANCY SENSOR PER ELECTRICAL

NOTE: ALL CASEWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH IBC STANDARDS PER SPECIFICATIONS. MODEL LISTED ARE IBC DESIGN SERIES #0.

TYPICAL AT CORRIDOR WAYS: MAINTAIN FIRE-RATING OF PARTITIONS BEHIND CLOCKS, OUTLETS, & OTHER RECESSED BOXES, TYP.

**DESTRUCTIVE INVESTIGATION REQUIRED - ALLOWANCE XX**  
REMOVE BOTTOM PORTION OF CYPBOARD AS REQUIRED TO VERIFY SILL PLATE CONNECTION PER DETAIL 15/A7.4. ADD 3/16" DIA. HILTI KWIKCON 2 @ 32" O.C. PER 15/A7.4 AS REQUIRED.

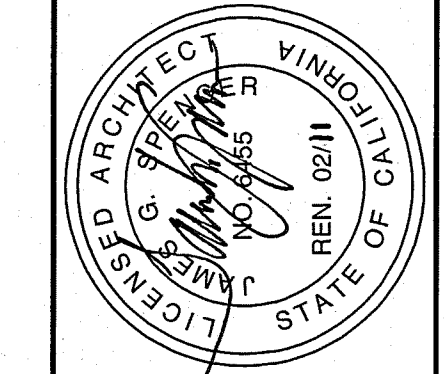
TYP. RAISED FLOOR PER DETAILS 14, 15, 16 AT 14, 15, 16

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NO.	DATE	REVISIONS



**CLAYPOOL BUILDING RECONSTRUCTION**  
PALO VERDE COLLEGE, NEEDLES CENTER  
PALO VERDE COMMUNITY COLLEGE DISTRICT  
725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363

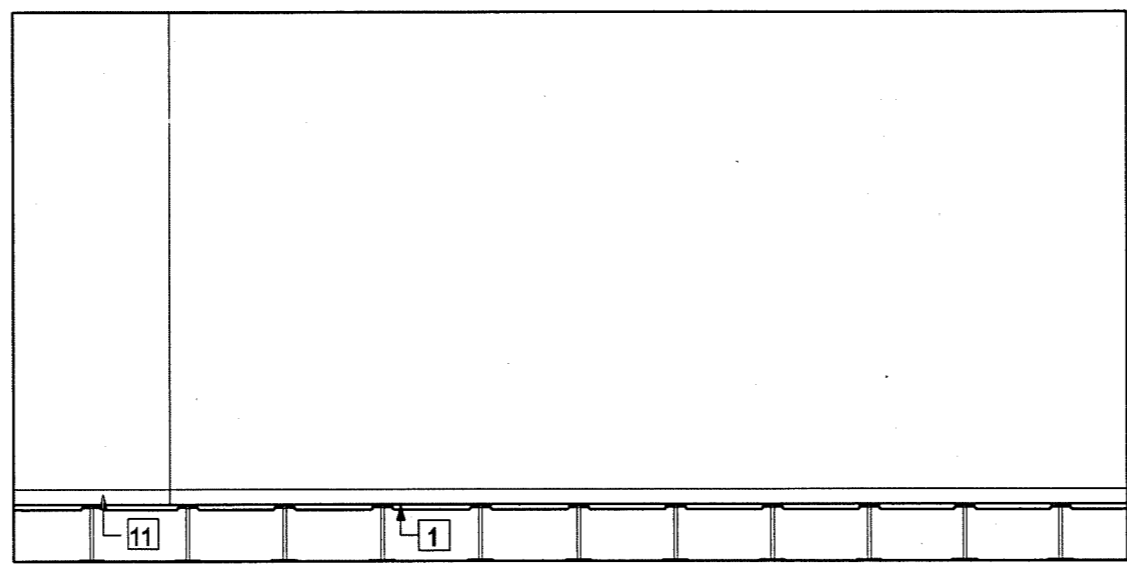
**INTERIOR ELEVATIONS**

DATE: 07-08-07  
JOB NO.: 2007-SH95-00  
DRAWN: YCL  
CHECKED: JVT

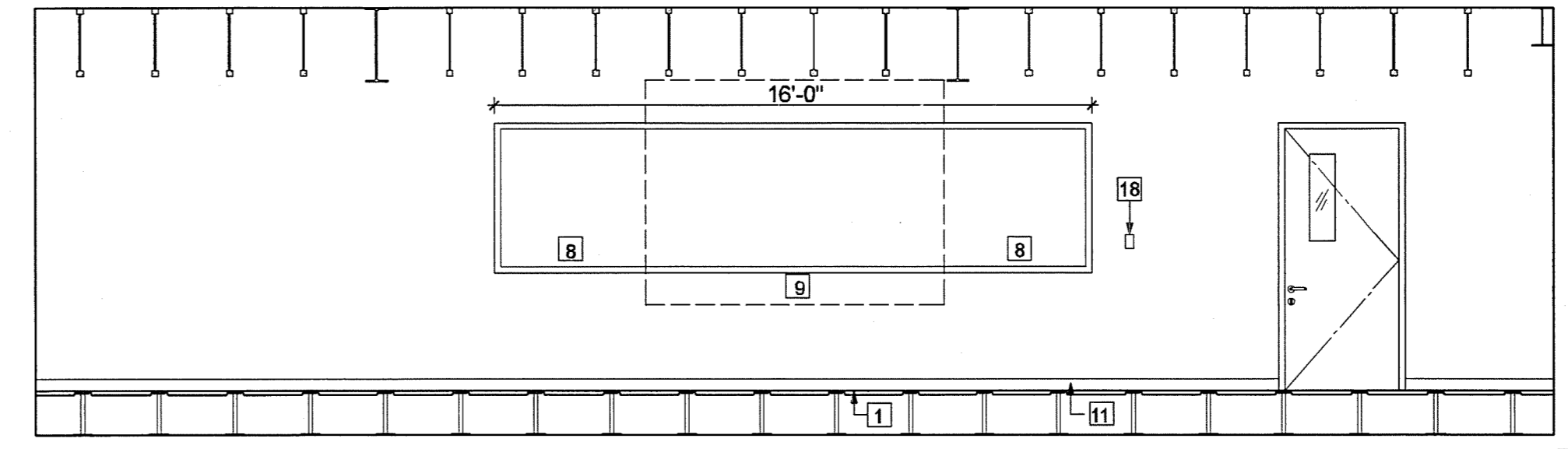
SHEET NO. **A5.1**

110562  
APR 07 2011

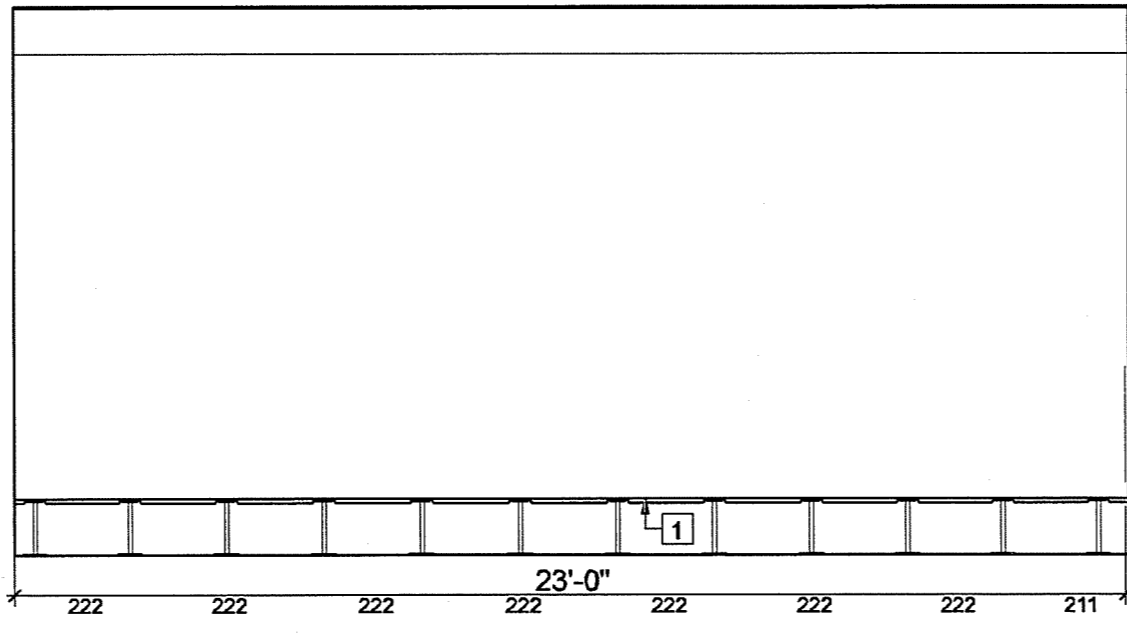
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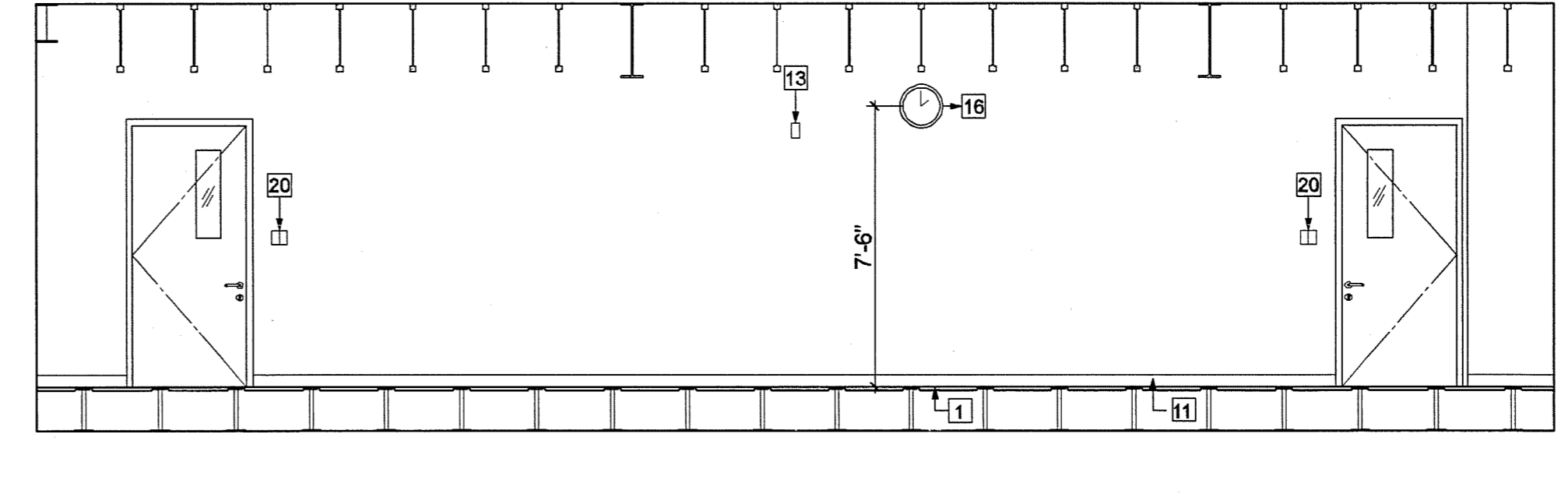
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E



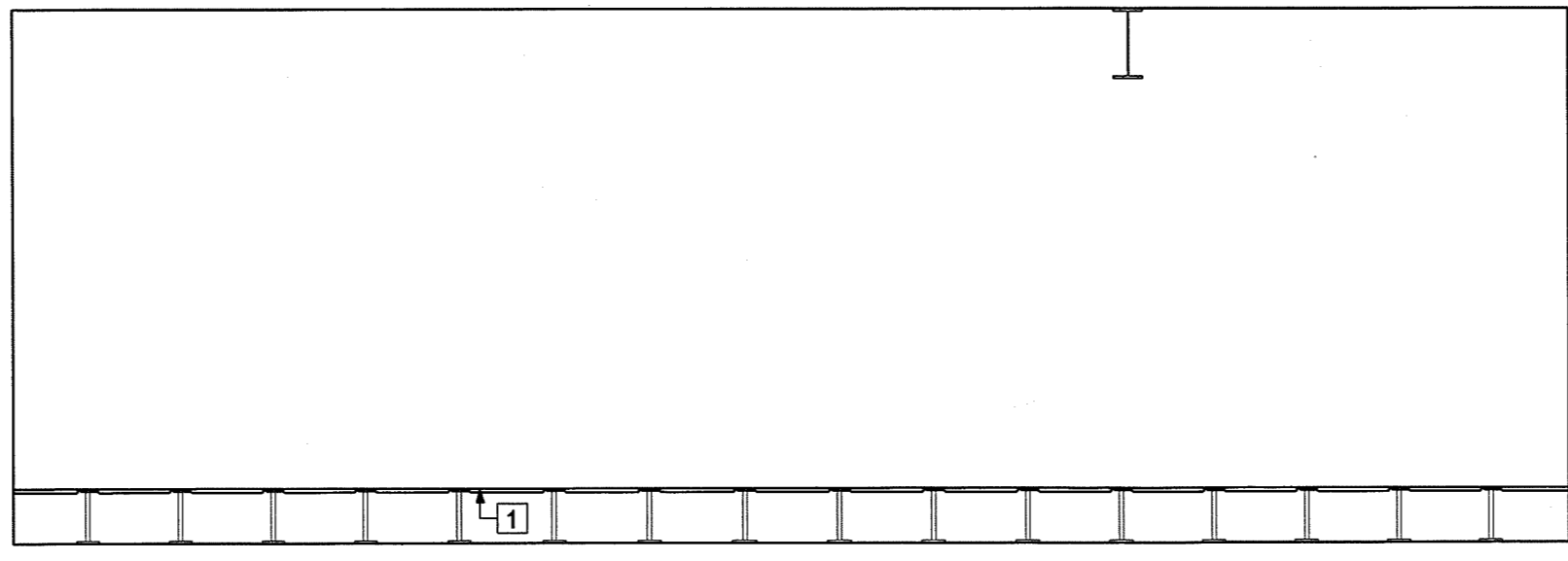
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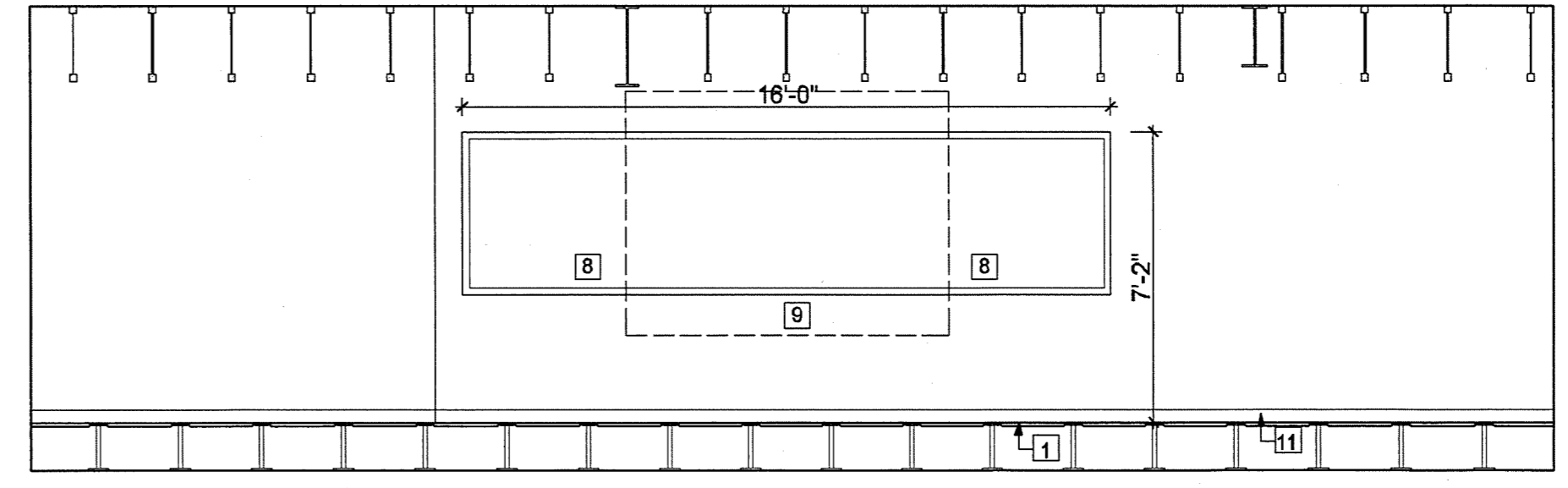
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**B 13 PHYSICAL SCIENCE LAB** ①

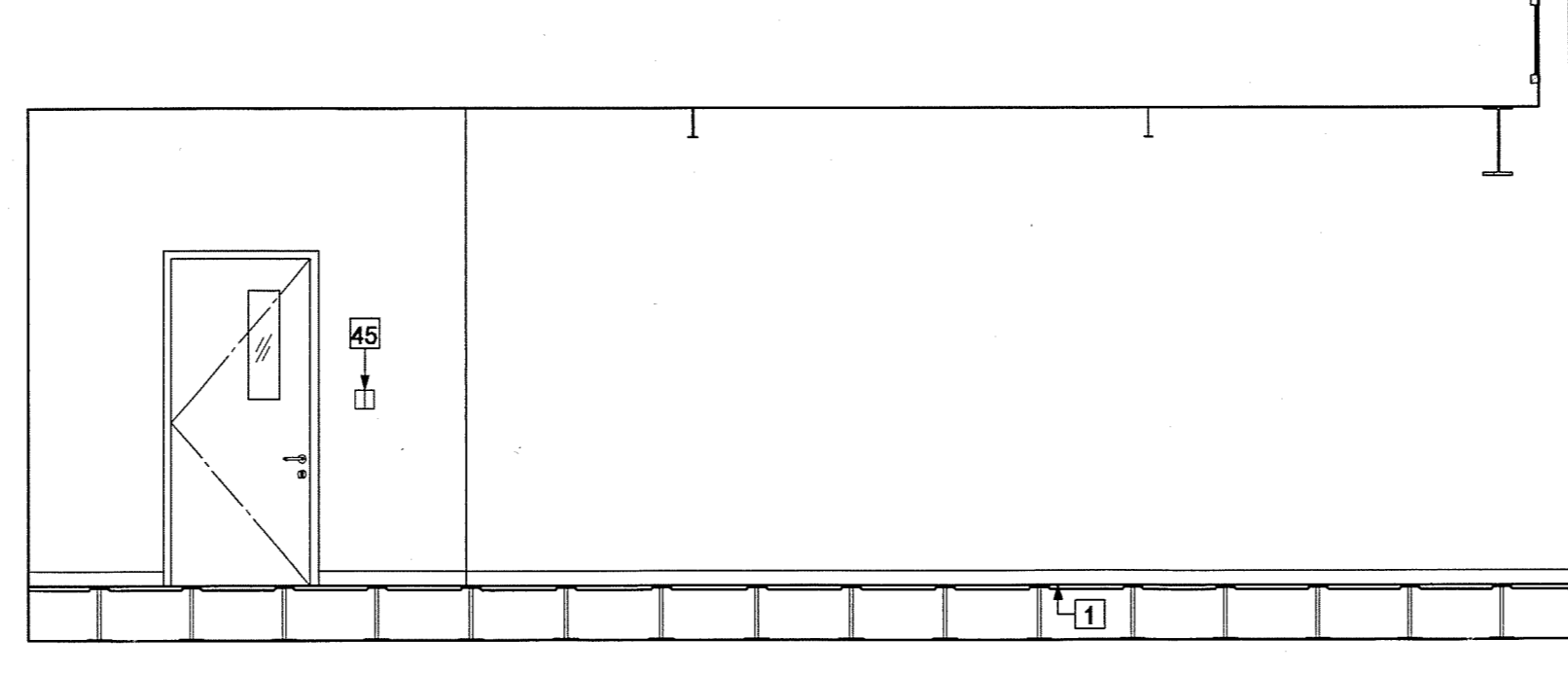
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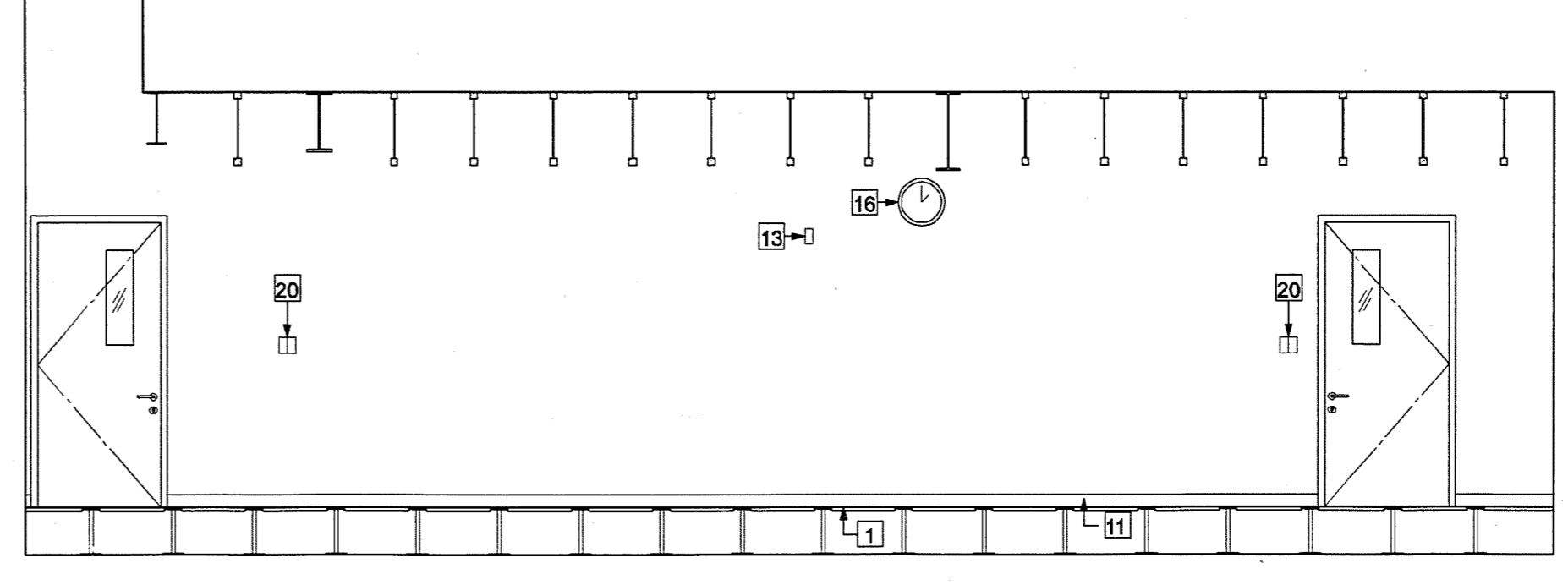
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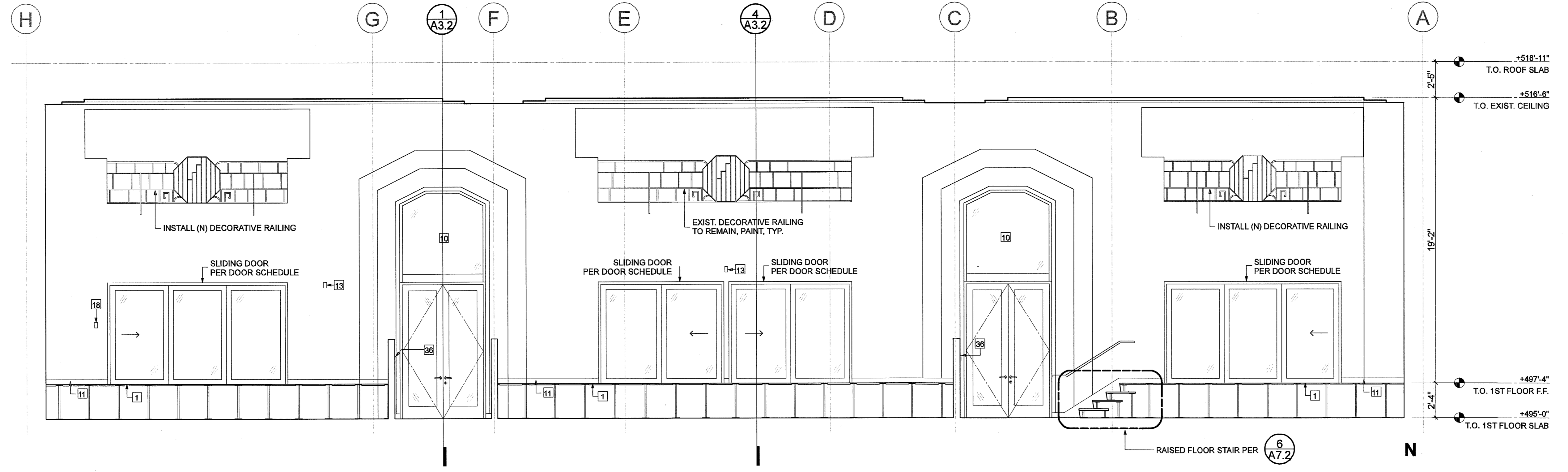
S



W

**B 15 ARTS & CRAFTS LAB** ③

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



**18 LIBRARY / LEARNING CENTER** ⑤

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

- KEY NOTES:**
- 1) RAISED FLOOR PER SPECIFICATIONS
  - 2) FORMED COVE & SPLASH
  - 3) CASEWORK WITH PLASTIC LAMINATE FINISH
  - 4) PLASTIC LAMINATE COUNTERTOP
  - 5) ACCESSIBLE SINK
  - 6) DISPLAY CASE PER SPECIFICATIONS AND DETAIL
  - 7) INSULATE HOT WATER PIPING & WASTE AT SINK
  - 8) MARKERBOARD PER 10 A9.7
  - 9) 6" X 6" PULL DOWN PROJECTION SCREEN WALL MOUNTED SET TOP OF SCREEN @ +8'-0"
  - 10) WINDOW PER SCHEDULE. SEE 7 / 8 / 9 / A9.6
  - 11) BASE PER FINISH SCHEDULE
  - 12) REMOVABLE TOE BOARD @ ACCESSIBLE SINK
  - 13) FIRE ALARM DEVICE PER ELECTRICAL
  - 14) ELECTRICAL OUTLET PER ELECTRICAL
  - 15) UNDER CABINET LIGHT FIXTURE PER ELECTRICAL
  - 16) CLOCK PER ELECTRICAL, LOCATE C.L. @ +86" A.F.F. U.N.O.
  - 17) ELECTRICAL PANEL PER ELECTRICAL
  - 18) THERMOSTAT PER MECHANICAL
  - 19) FIRE EXTINGUISHER CABINET
  - 20) ELECTRICAL SWITCH/OCCUPANCY SENSOR PER ELECTRICAL

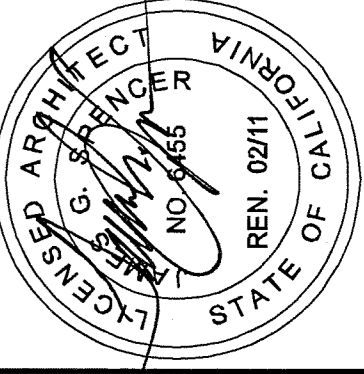
CONSULTANT

NO.	DATE	REVISIONS

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Stephen R. Hoskins, AIA, Architect C-7723



**CLAYPOOL BUILDING RECONSTRUCTION**  
PALO VERDE COLLEGE, NEEDLES CENTER  
PALO VERDE COMMUNITY COLLEGE DISTRICT  
725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363

DATE: 07-06-07  
JOB NO: 2007-SHRE-00  
DRAWN: YCL  
CHECKED: JVT

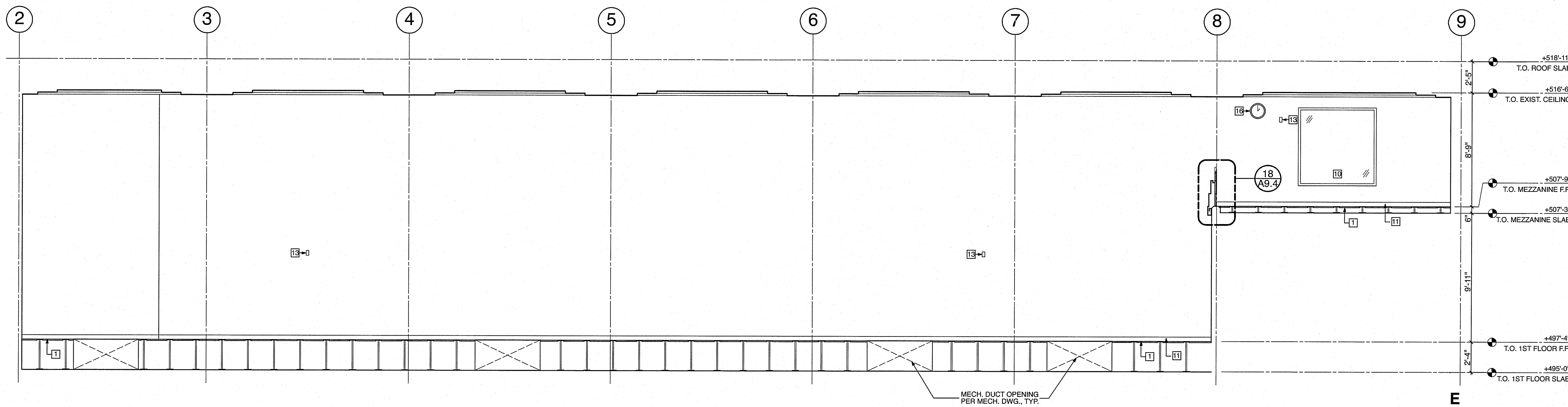
**INTERIOR ELEVATIONS**

SHEET NO. **A5.2**

110562

DATE: APR 17 2011

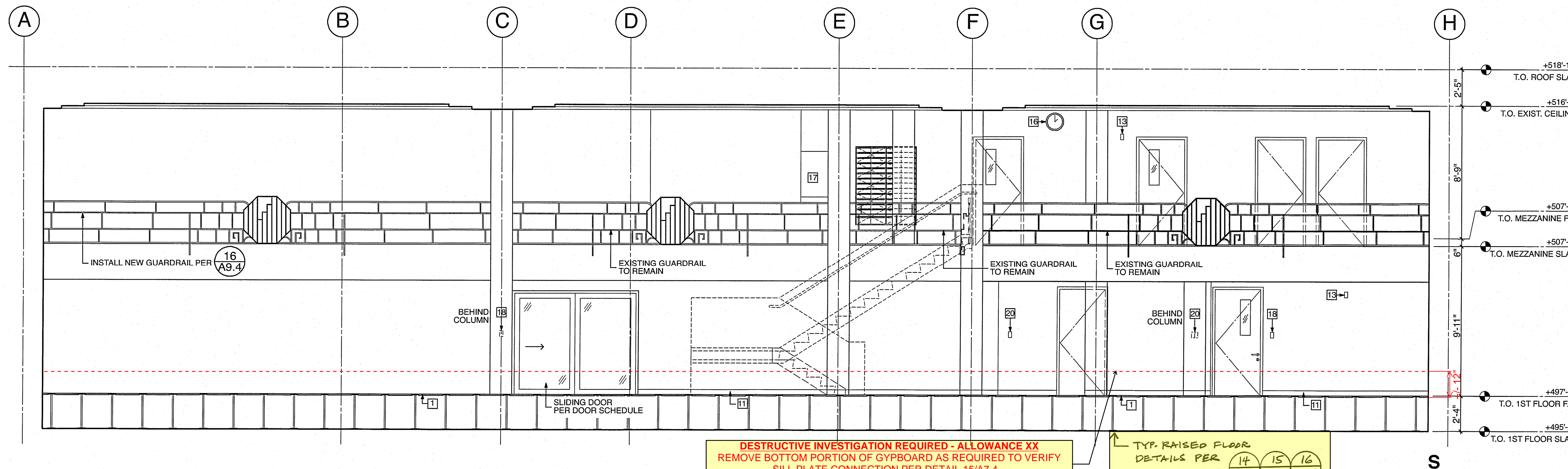
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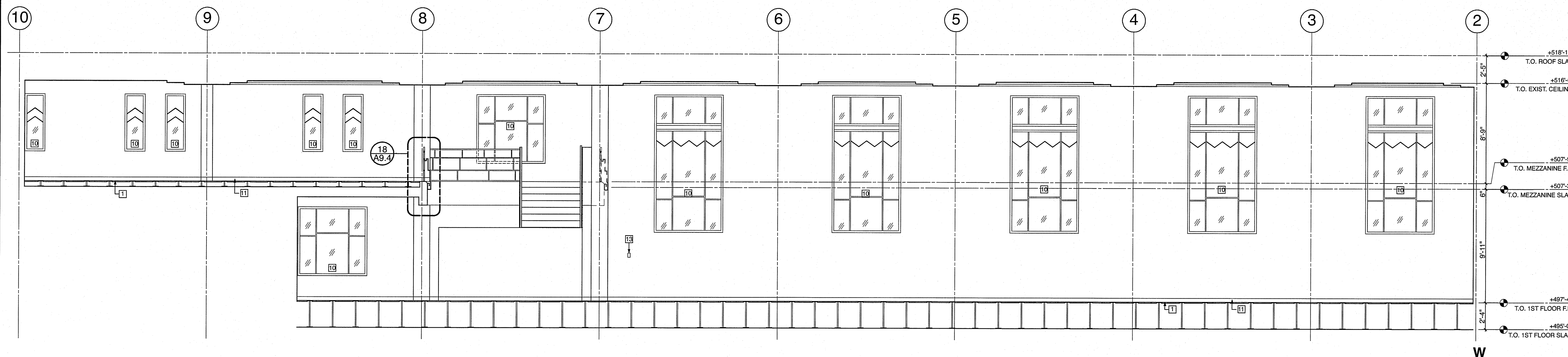
18 LIBRARY / LEARNING CENTER ①  
SCALE: 1/4"=1'-0"

- KEY NOTES:**
- ① RAISED FLOOR PER SPECIFICATIONS
  - ② FORMED COVE & SPLASH
  - ③ ADJUSTABLE SHELVES - PLASTIC LAMINATE FINISH
  - ④ SOLID SURFACING COUNTERTOP (CORIAN)
  - ⑤ ACCESSIBLE SINK
  - ⑥ DISPLAY CASE PER SPECIFICATIONS
  - ⑦ INSULATE HOT WATER PIPING & WASTE AT SINK
  - ⑧ MARKERBOARD PER ⑩
  - ⑨ 8' X 6' PULL DOWN PROJECTION SCREEN WALL MOUNTED SET TOP OF SCREEN @ +8'-0"
  - ⑩ WINDOW PER SCHEDULE. SEE 7/8/9/10/11
  - ⑪ BASE PER FINISH SCHEDULE
  - ⑫ REMOVABLE TOE BOARD @ ACCESSIBLE SINK
  - ⑬ FIRE ALARM DEVICE PER ELECTRICAL
  - ⑭ ELECTRICAL OUTLET PER ELECTRICAL
  - ⑮ UNDER CABINET LIGHT FIXTURE PER ELECTRICAL
  - ⑯ CLOCK PER ELECTRICAL, LOCATE C.L. @ +8" A.F.F. U.N.O.
  - ⑰ ELECTRICAL PANEL PER ELECTRICAL
  - ⑱ THERMOSTAT PER MECHANICAL
  - ⑲ FIRE EXTINGUISHER CABINET
  - ⑳ ELECTRICAL SWITCH/OCCUPANCY SENSOR PER ELECTRICAL

NOTE: ALL CASEWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH IBC STANDARDS PER SPECIFICATIONS. MODEL #S LISTED ARE IBC DESIGN SERIES #S.



18 LIBRARY / LEARNING CENTER ②  
SCALE: 1/4"=1'-0"



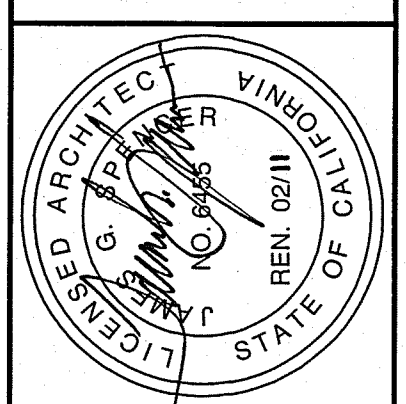
14 OPEN WORK AREA ③  
SCALE: 1/4"=1'-0"

REVISIONS  
NO. DATE  
1 11/05/22  
2 07/07/2011

NO.	DATE	REVISIONS

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Stephen R. Hoskins, AIA, Architect C-7725

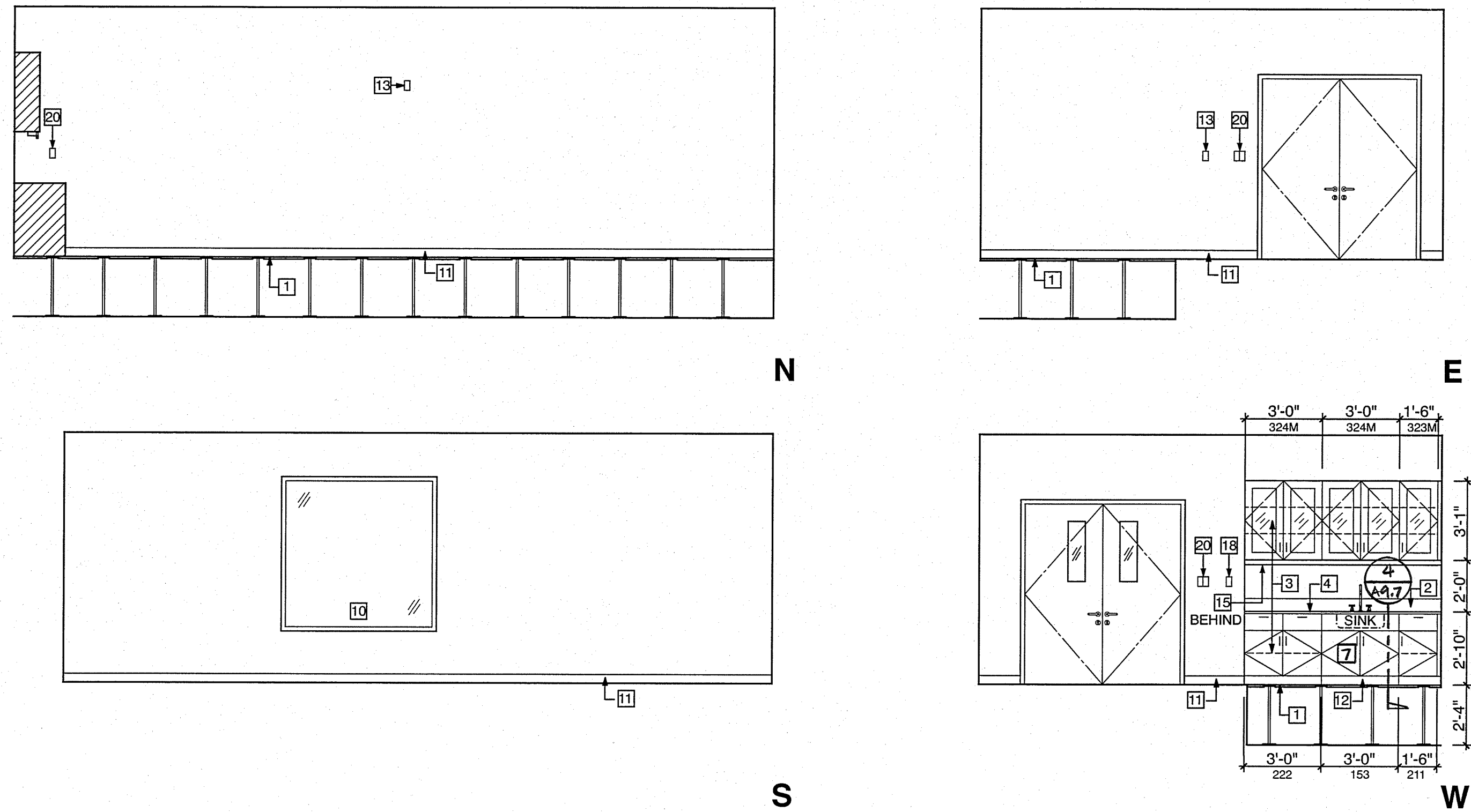


**CLAYPOOL BUILDING RECONSTRUCTION**  
PALO VERDE COLLEGE, NEEDLES CENTER  
PALO VERDE COMMUNITY COLLEGE DISTRICT  
725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363

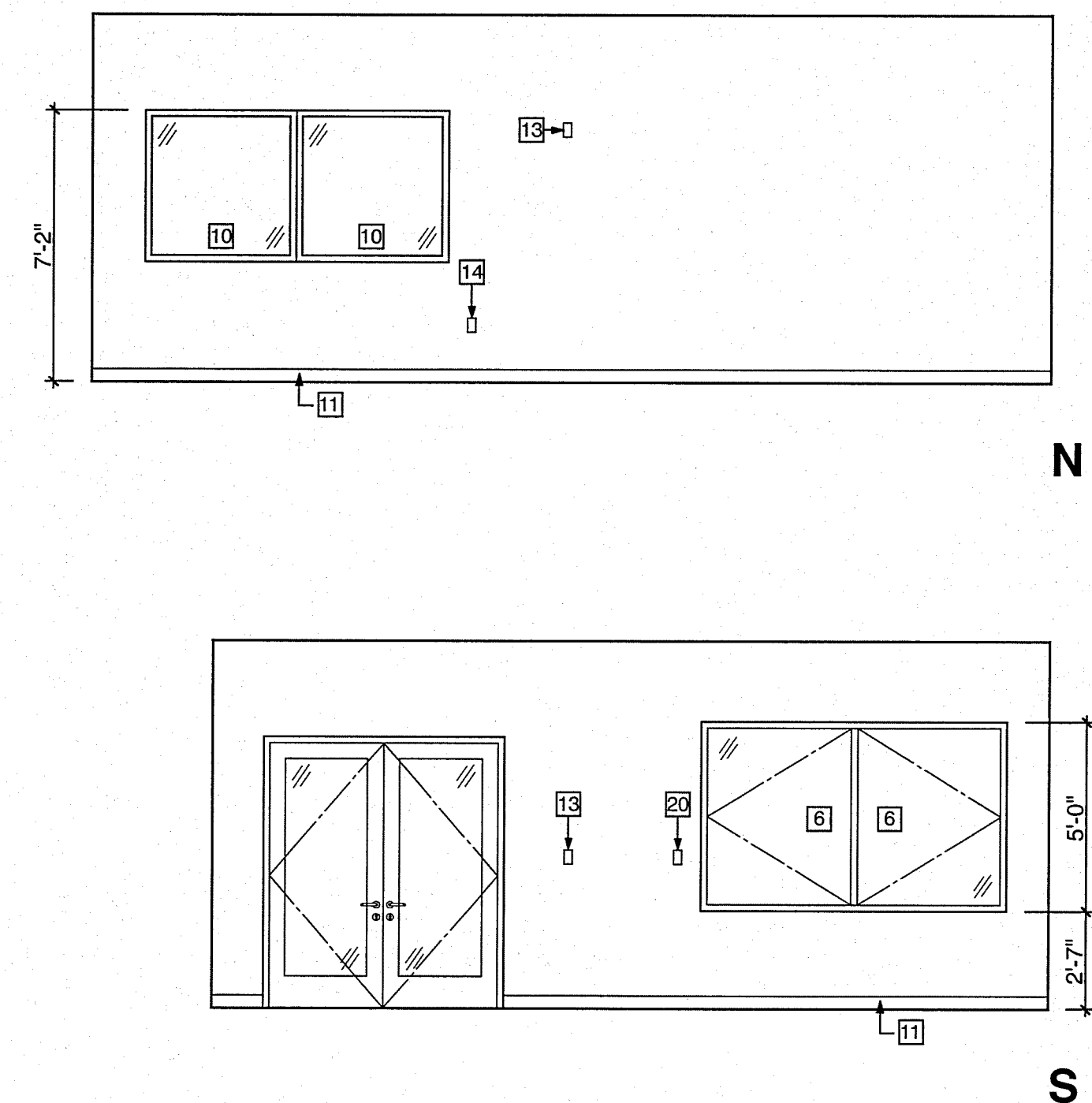
DATE: 07-06-07  
JOB NO.: 2007-SH95-00  
DRAWN: YCL  
CHECKED: JVT

INTERIOR ELEVATIONS

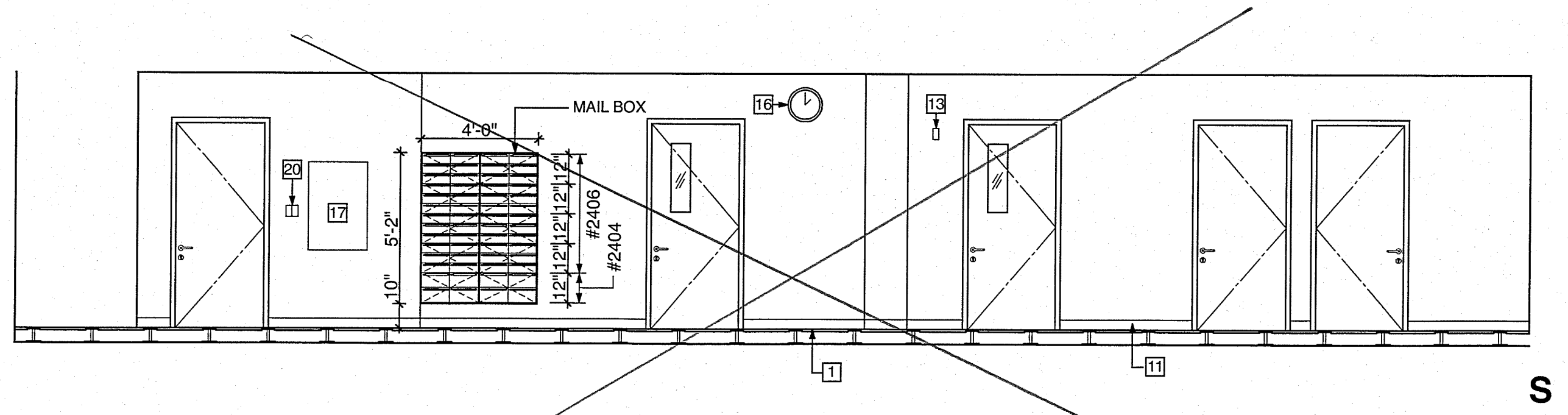
SHEET NO. **A5.3**



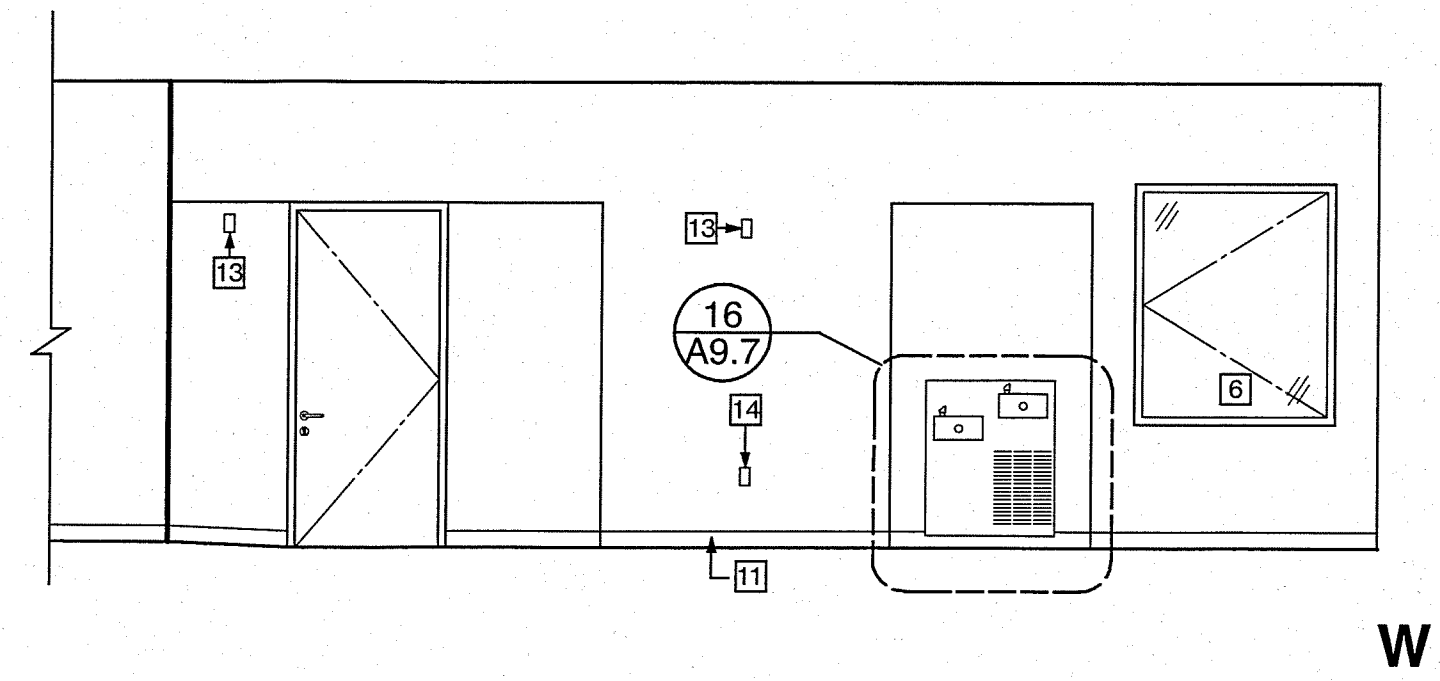
**02 STUDENT ACTIVITIES** (2)  
SCALE: 1/4"=1'-0"



**01 ENTRANCE #1** (1)  
SCALE: 1/4"=1'-0"



**M02A OPEN WORK AREA** (4)  
*(NOT IN CONTRACT)*  
SCALE: 1/4"=1'-0"



**03 HALLWAY** (3)  
SCALE: 1/4"=1'-0"

**KEY NOTES:**

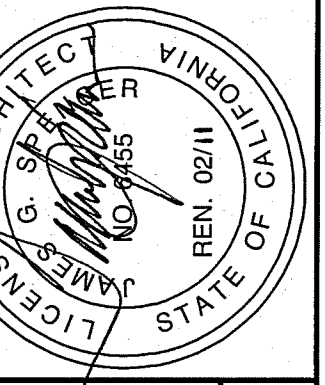
- 1 RAISED FLOOR PER SPECIFICATIONS
- 2 FORMED COVE & SPLASH
- 3 CASEWORK W/ PLASTIC LAMINATE FINISH
- 4 PLASTIC LAM. COUNTERTOP
- 5 ACCESSIBLE SINK
- 6 DISPLAY CASE PER SPECIFICATIONS & DETAIL 12 A9.7
- 7 INSULATE HOT WATER PIPING & WASTE AT SINK
- 8 MARKERBOARD PER 10 A9.7
- 9 8' X 6' PULL DOWN PROJECTION SCREEN WALL MOUNTED SET TOP OF SCREEN @ +8'-0" 15 A9.7
- 10 WINDOW PER SCHEDULE SEE 7/8/9/19.6
- 11 BASE PER FINISH SCHEDULE
- 12 REMOVABLE TOE BOARD @ ACCESSIBLE SINK
- 13 FIRE ALARM DEVICE PER ELECTRICAL
- 14 ELECTRICAL OUTLET PER ELECTRICAL
- 15 UNDER CABINET LIGHT FIXTURE PER ELECTRICAL
- 16 CLOCK PER ELECTRICAL, LOCATE C.L. @ +86" A.F.F. U.N.O.
- 17 ELECTRICAL PANEL PER ELECTRICAL
- 18 THERMOSTAT PER MECHANICAL
- 19 FIRE EXTINGUISHER CABINET
- 20 ELECTRICAL SWITCH/OCCUPANCY SENSOR PER ELECTRICAL

NOTE: ALL CASEWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH WIG STANDARDS PER SPECIFICATIONS. MODEL #S LISTED ARE WIG DESIGN SERIES #S.

CONSULTANT

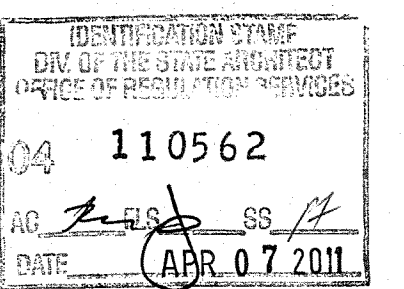
NO.	DATE	REVISIONS

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CLAYPOOL BUILDING RECONSTRUCTION  
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PALO VERDE COMMUNITY COLLEGE DISTRICT  
725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363  
INTERIOR ELEVATIONS

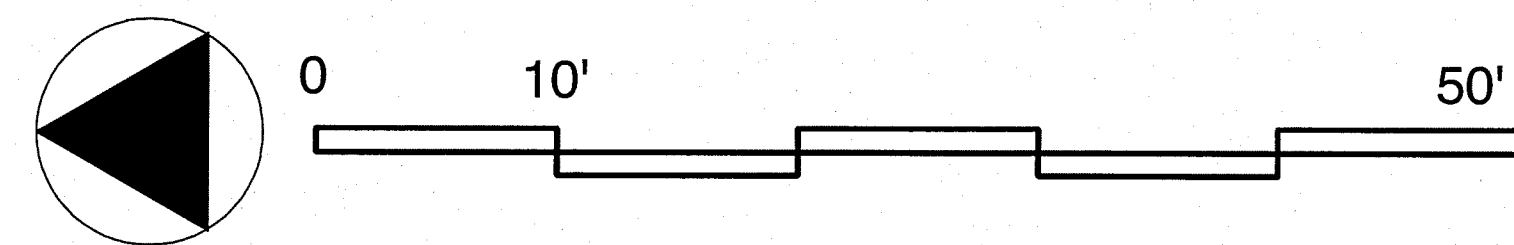
DATE	07-06-07	CHECKED	JVT
JOB NO.	2007-SH95-00	DRAWN	YCL



SHEET NO.  
**A5.4**  
SHEET OF



# BASEMENT REFLECTED CEILING PLAN



### CEILING NOTES:

1. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD. ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS OR MISSING DIMENSIONS FOR CORRECTION BEFORE PROCEEDING WITH WORK.
2. REFER TO FINISH SCHEDULE FOR FINISH CEILING HEIGHTS.
3. REFER TO ELECTRICAL DRAWINGS FOR POWER, LIGHTING, SIGNAL AND ALARM DEVICES.
4. ALL ACOUSTICAL CEILING TILE MATERIALS SHALL NOT EXCEED FLAME SPREAD RATING OF 25 AND SMOKE DENSITY OF 450 PER Q82777.5.
5. ALL CEILING HEIGHTS ARE TO BOTTOM OF TEES (SUSPENDED CEILINGS) OR BOTTOM OF ROUGH CEILING (DRYWALL).
6. ALL SUSPENDED CEILINGS SHALL BE SUPPORTED BY HANGER WIRES AS REQUIRED BY CODE. REFER TO CEILING SPECS & DETAILS FOR TYPICAL HANGER WIRE INSTALLATION.
7. INSTALLATION OF SUSPENDED ACOUSTICAL CEILINGS SHALL NOT BE STARTED UNTIL DETAILED PLANS, SPECIFICATIONS AND ENGINEERING CALCULATIONS HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR ENGINEER.

### CEILING LEGEND:

- ACOUSTICAL CEILING TILE, SUSPENDED (2) (A9.3)
- GYPSUM BOARD CEILING (2) (A9.4)
- ACOUSTIC CEILING TILE SUPPORTED BY FIXED ANGLES PER (1/2) (A9.3)
- RECESSED DOWN-LIGHT FIXTURE PER ELECT.
- 2' X 2' RECESSED FLUORESCENT LIGHT FIXTURE PER ELECT.
- 2' X 4' RECESSED FLUORESCENT LIGHT FIXTURE PER ELECT.
- 1' X 4' FLUORESCENT LIGHT FIXTURE PER ELECT.
- SURFACE-MOUNTED FLUORESCENT LIGHT FIXTURE PER ELECT.
- TRUSS-MOUNTED FLUORESCENT LIGHT FIXTURE PER ELECT.
- PENDANT HUNG LIGHT FIXTURE PER ELECT.
- SOFFIT LIGHT PER ELECT. SEE (3) (A9.4)
- SURFACE-MOUNTED INDUSTRIAL LIGHT FIXTURE PER ELECT.
- UNDER-CABINET LIGHT FIXTURE PER ELECT.
- SIGN LIGHT PER ELECT.
- SUPPLY AIR DIFFUSER PER MECH.
- RETURN AIR DIFFUSER PER MECH.
- EXHAUST AIR GRILLE PER MECH.
- FAN COIL UNIT PER MECH.
- EXIT SIGN - REFER TO ELECTRICAL DRAWINGS
- 1-HR FIRE-RATED DRYWALL CEILING ACCESS PANEL (3'-0" x 3'-0", TYP. U.N.O.) (4) (A9.4)
- PROJECTOR LOCATION (PROJECTOR N.I.C.) PROVIDE PROJECTOR MOUNT PER (13) (A9.7) (DISTANCE TO SCREEN SHALL BE 11'-0" TO 13'-6" TYP.) AT EXPOSED CEILING, ATTACH DIRECTLY TO STRUCTURE ABOVE.
- PROJECTOR SCREEN P.S.(X) 6'x8' SCREEN, WALL MOUNTED (15) (A9.7)

NOTE: THE ELECTRICAL FIXTURES & DEVICES AND MECHANICAL DIFFUSERS ABOVE ARE SHOWN FOR DESIGN COORDINATION PURPOSES ONLY. REFER TO ENGINEERING DRAWINGS FOR EXACT FIXTURES, DEVICES, TYPES AND FOR EXACT LOCATIONS. ARCHITECT SHALL BE NOTIFIED OF ANY CONFLICTS BEFORE PROCEEDING WITH THE WORK.

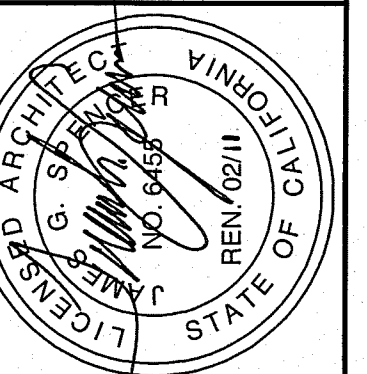
REFERENCE INSPECTOR COMMENT I-029

CONSULTANT

NO.	DATE	REVISIONS

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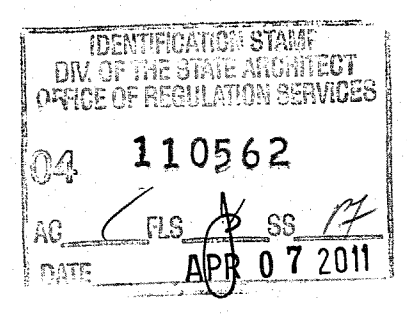


**CLAYPOOL BUILDING RECONSTRUCTION**  
**PALO VERDE COLLEGE, NEEDLES CENTER**  
 PALO VERDE COMMUNITY COLLEGE DISTRICT  
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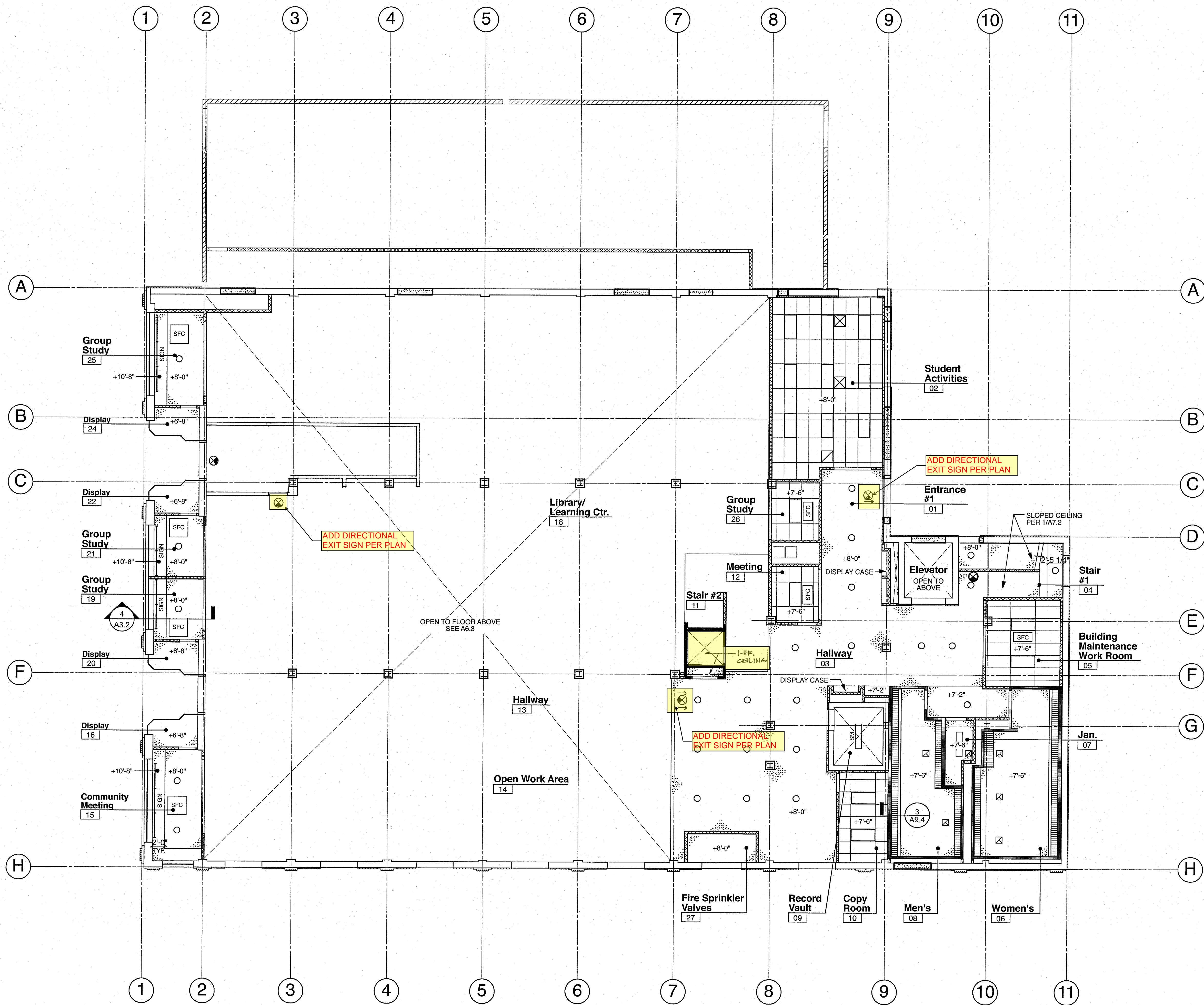
**REMODEL BASEMENT REFLECTED CEILING PLAN**

DATE	07-06-07	CHECKED	JVT
JOB NO.	2007-SH95-00	DRAWN	RL

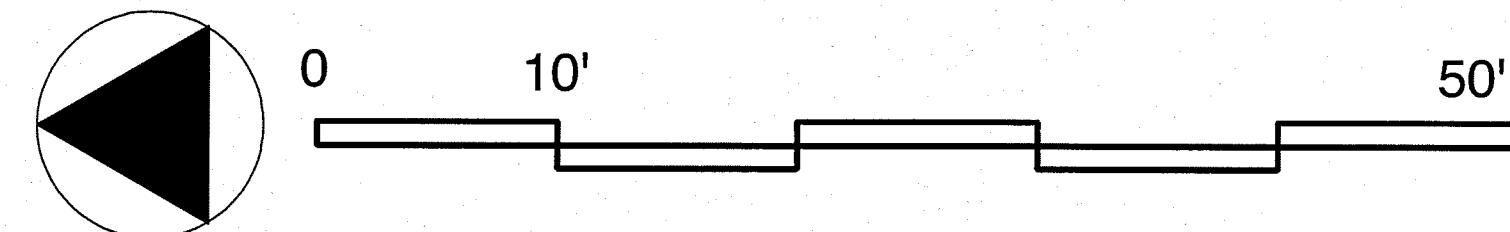
SHEET NO. **A6.1**







# FIRST FLOOR REFLECTED CEILING PLAN



- CEILING NOTES:**
1. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD. ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS OR MISSING DIMENSIONS. FOR CORRECTION BEFORE PROCEEDING WITH WORK.
  2. REFER TO FINISH SCHEDULE FOR FINISH CEILING HEIGHTS.
  3. REFER TO ELECTRICAL DRAWINGS FOR POWER, LIGHTING, SIGNAL AND ALARM DEVICES.
  4. ALL ACOUSTICAL CEILING TILE MATERIALS SHALL NOT EXCEED FLAME SPREAD RATING OF 25 AND SMOKE DENSITY OF 450 PER CBC707.3.
  5. ALL CEILING HEIGHTS ARE TO BOTTOM OF TEES (SUSPENDED CEILINGS) OR BOTTOM OF ROUGH CEILING (DRYWALL).
  6. ALL SUSPENDED CEILINGS SHALL BE SUPPORTED BY HANGER WIRES AS REQUIRED BY CODE. REFER TO CEILING SPECS & DETAILS FOR TYPICAL HANGER WIRE INSTALLATION.
  7. INSTALLATION OF SUSPENDED ACOUSTICAL CEILINGS SHALL NOT BE STARTED UNTIL DETAILED PLANS, SPECIFICATIONS AND ENGINEERING CALCULATIONS HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR ENGINEER.

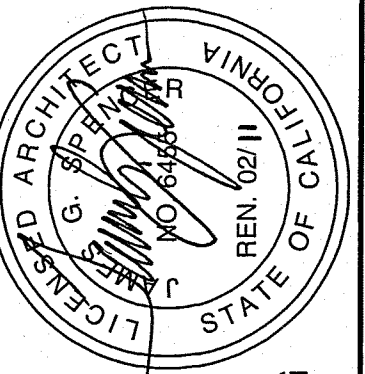
- CEILING LEGEND:**
- ACOUSTICAL CEILING TILE, SUSPENDED (2) (A9.3)
  - GYPSUM BOARD CEILING (3) (A9.3)
  - ACOUSTIC CEILING TILE SUPPORTED BY FIXED ANGLES PER (1/2) (A9.3)
  - RECESSED DOWN-LIGHT FIXTURE PER ELECT.
  - 2' X 2' RECESSED FLUORESCENT LIGHT FIXTURE PER ELECT.
  - 2' X 4' RECESSED FLUORESCENT LIGHT FIXTURE PER ELECT.
  - 1' X 4' FLUORESCENT LIGHT FIXTURE PER ELECT.
  - SURFACE-MOUNTED FLUORESCENT LIGHT FIXTURE PER ELECT.
  - TRUSS-MOUNTED FLUORESCENT LIGHT FIXTURE PER ELECT.
  - PENDANT HUNG LIGHT FIXTURE PER ELECT.
  - SOFFIT LIGHT PER ELECT. SEE (3) (A9.4)
  - SURFACE-MOUNTED INDUSTRIAL LIGHT FIXTURE PER ELECT.
  - UNDER-CABINET LIGHT FIXTURE PER ELECT.
  - SIGNAL LIGHT PER ELECT.
  - SUPPLY AIR DIFFUSER PER MECH.
  - RETURN AIR DIFFUSER PER MECH.
  - EXHAUST AIR GRILLE PER MECH.
  - FAN COIL UNIT PER MECH.
  - EXIT SIGN - REFER TO ELECTRICAL DRAWINGS
  - DRYWALL CEILING ACCESS PANEL (3'-0" X 3'-0", TYP. U.N.O.) (4) (A9.4)
  - PROJECTOR LOCATION (PROJECTOR N.I.C.) PROVIDE PROJECTOR MOUNT PER VERIFY FINAL LOCATION (DISTANCE TO SCREEN SHALL BE 11'-0" TO 13'-0", TYP.) AT EXPOSED CEILING. ATTACH DIRECTLY TO STRUCTURE ABOVE. (13) (A9.7)
  - PROJECTOR SCREEN P.S.(X): 6'X8' SCREEN, WALL MOUNTED (15) (A9.7)

NOTE: THE ELECTRICAL FIXTURES & DEVICES AND MECHANICAL DIFFUSERS ABOVE ARE SHOWN FOR DESIGN COORDINATION PURPOSES ONLY. REFER TO ENGINEERING DRAWINGS FOR EXACT FIXTURES, DEVICES, TYPES AND FOR EXACT LOCATIONS. ARCHITECT SHALL BE NOTIFIED OF ANY CONFLICTS BEFORE PROCEEDING WITH THE WORK.

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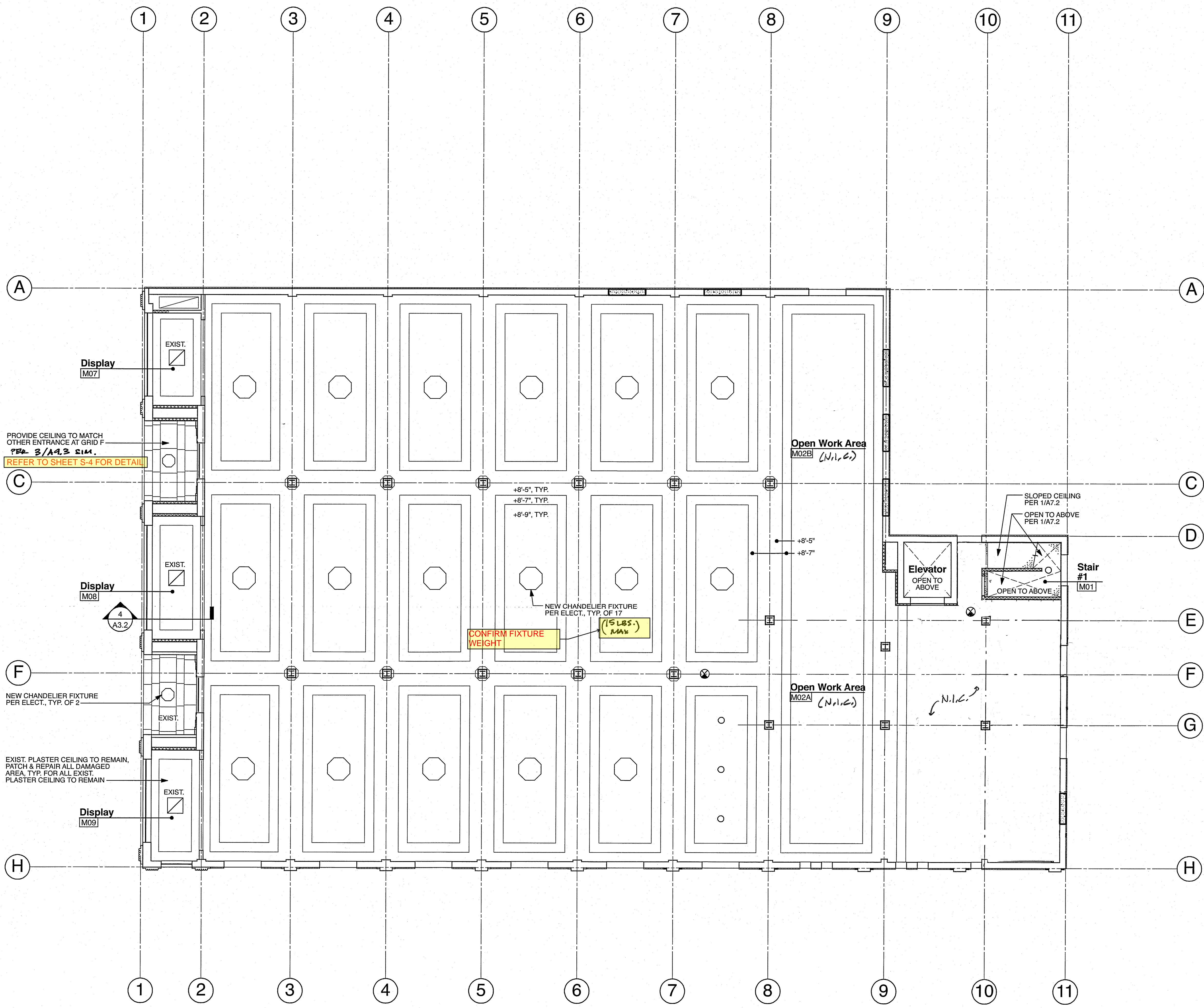


CLAYPOOL BUILDING RECONSTRUCTION  
 PALO VERDE COLLEGE, NEEDLES CENTER  
 PALO VERDE COMMUNITY COLLEGE DISTRICT  
 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363  
**REMODEL FIRST FLOOR REFLECTED CEILING PLAN**

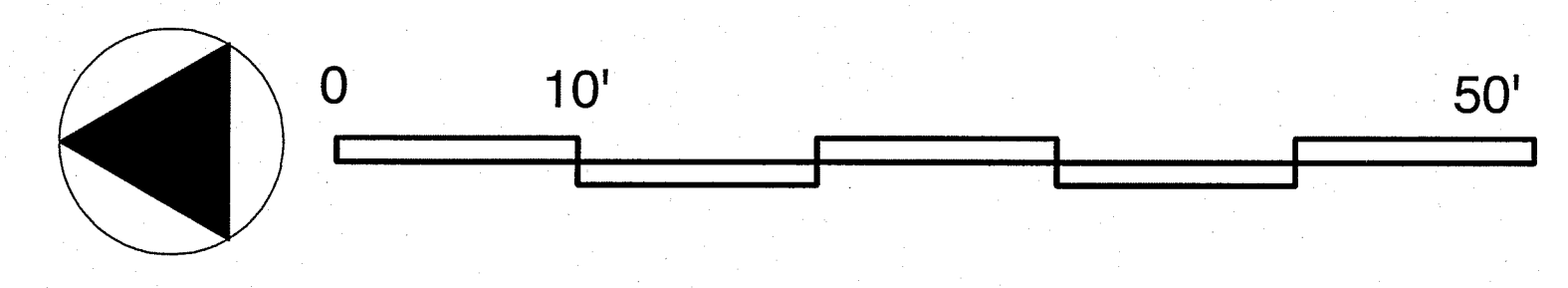
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JOB NO.	2007-SH95-00	DRAWN	RL

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**A6.2**  
 SHEET OF

110562  
 APR 07 2011



# MEZZANINE REFLECTED CEILING PLAN



- CEILING NOTES:**
1. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD. ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS OR MISSING DIMENSIONS FOR CORRECTION BEFORE PROCEEDING WITH WORK.
  2. REFER TO FINISH SCHEDULE FOR FINISH CEILING HEIGHTS.
  3. REFER TO ELECTRICAL DRAWINGS FOR POWER, LIGHTING, SIGNAL AND ALARM DEVICES.
  4. ALL ACOUSTICAL CEILING TILE MATERIALS SHALL NOT EXCEED FLAME SPREAD RATING OF 25 AND SMOKE DENSITY OF 450 PER CB707.3.
  5. ALL CEILING HEIGHTS ARE TO BOTTOM OF TEES (SUSPENDED CEILINGS) OR BOTTOM OF ROUGH CEILING (DRYWALL).
  6. ALL SUSPENDED CEILINGS SHALL BE SUPPORTED BY HANGER WIRES AS REQUIRED BY CODE. REFER TO CEILING SPECS & DETAILS FOR TYPICAL HANGER WIRE INSTALLATION.
  7. INSTALLATION OF SUSPENDED ACOUSTICAL CEILINGS SHALL NOT BE STARTED UNTIL DETAILED PLANS, SPECIFICATIONS AND ENGINEERING CALCULATIONS HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR ENGINEER.

- CEILING LEGEND:**
- ACOUSTICAL CEILING TILE, SUSPENDED (2) A8.3
  - GYPSUM BOARD CEILING (3) A8.3
  - ACOUSTICAL CEILING TILE SUPPORTED BY FIXED ANGLES PER (1/2) (1/3) A8.3
  - RECESSED DOWN-LIGHT FIXTURE PER ELECT.
  - 2' X 2' RECESSED FLUORESCENT LIGHT FIXTURE PER ELECT.
  - 2' X 4' RECESSED FLUORESCENT LIGHT FIXTURE PER ELECT.
  - 1' X 4' FLUORESCENT LIGHT FIXTURE PER ELECT.
  - SURFACE-MOUNTED FLUORESCENT LIGHT FIXTURE PER ELECT.
  - TRUSS-MOUNTED FLUORESCENT LIGHT FIXTURE PER ELECT.
  - PENDANT HUNG LIGHT FIXTURE PER ELECT.
  - SOFFIT LIGHT PER ELECT. SEE (3) A8.4
  - SURFACE-MOUNTED INDUSTRIAL LIGHT FIXTURE PER ELECT.
  - UNDER-CABINET LIGHT FIXTURE PER ELECT.
  - SIGN LIGHT PER ELECT.
  - SUPPLY AIR DIFFUSER PER MECH.
  - RETURN AIR DIFFUSER PER MECH.
  - EXHAUST AIR GRILLE PER MECH.
  - FAN COIL UNIT PER MECH.
  - EXIT SIGN - REFER TO ELECTRICAL DRAWINGS
  - DRYWALL CEILING ACCESS PANEL (3'-0" x 3'-0", TYP. U.N.O.) (4) A8.4
  - PROJECTOR LOCATION (PROJECTOR N.I.C.) PROVIDE PROJECTOR MOUNT PER -VERIFY FINAL LOCATION (DISTANCE TO SCREEN SHALL BE 11'-0" TO 13'-0", TYP.) AT EXPOSED CEILING, ATTACH DIRECTLY TO STRUCTURE ABOVE. (13) A8.7
  - PROJECTOR SCREEN P.S.(A); 6'x8' SCREEN, WALL MOUNTED (15) A8.7

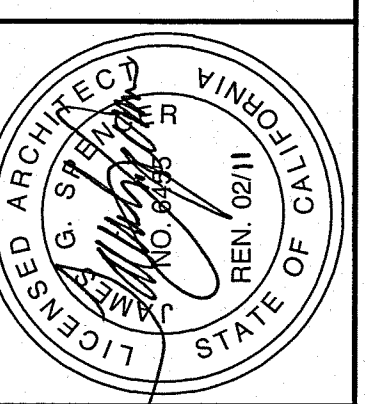
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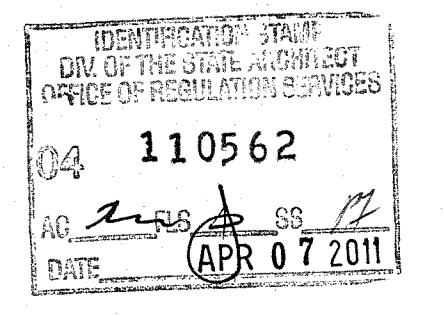


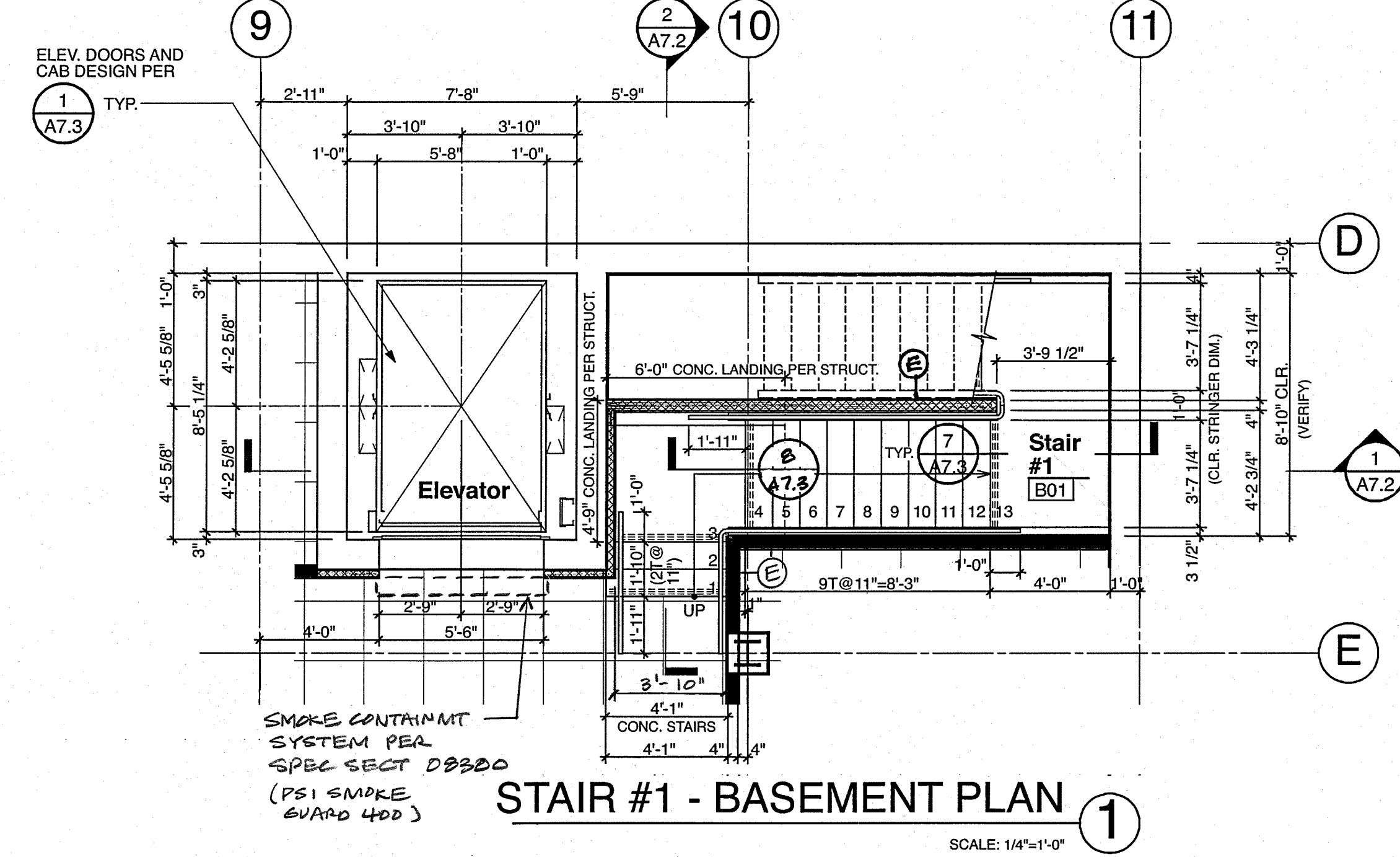
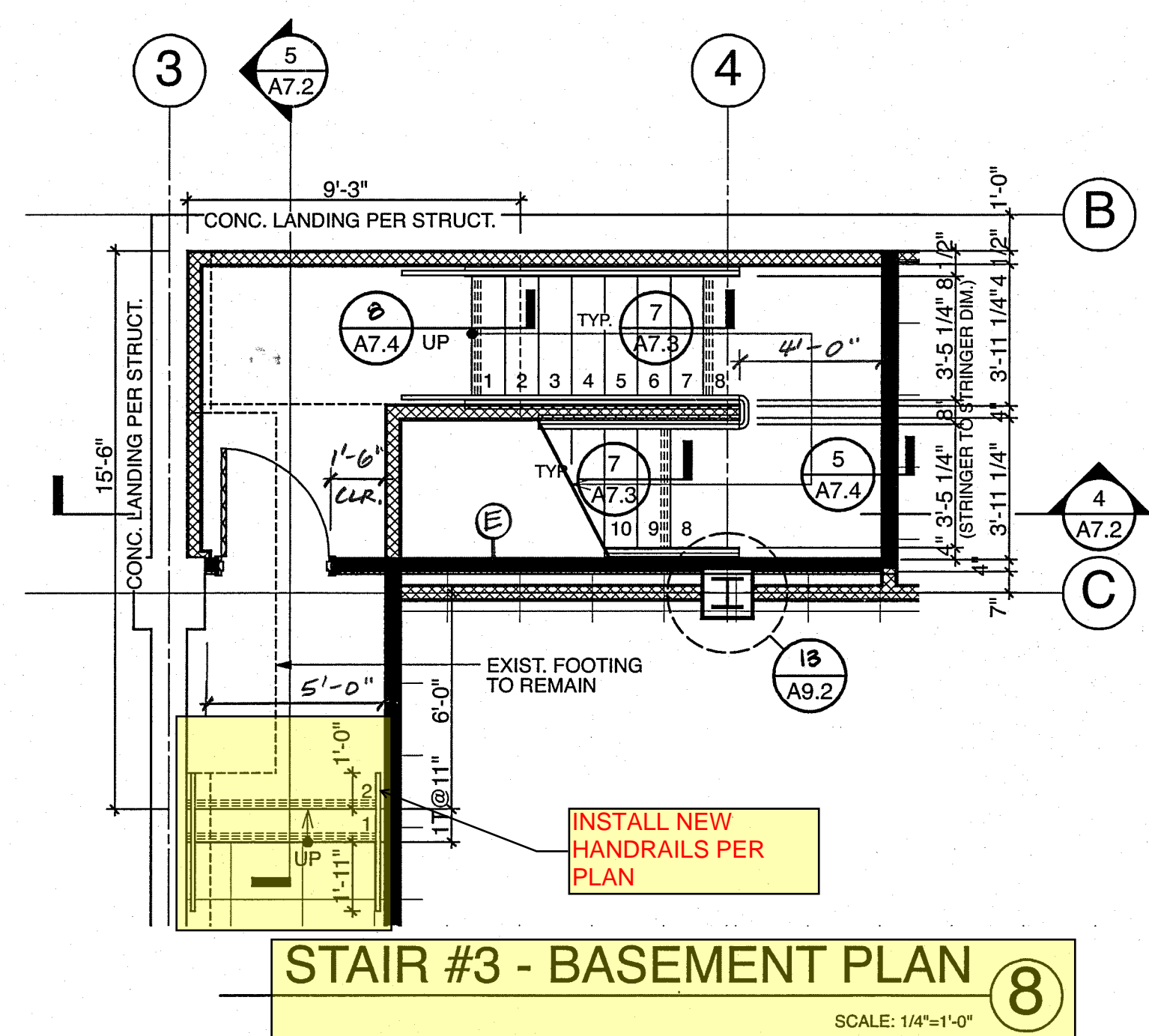
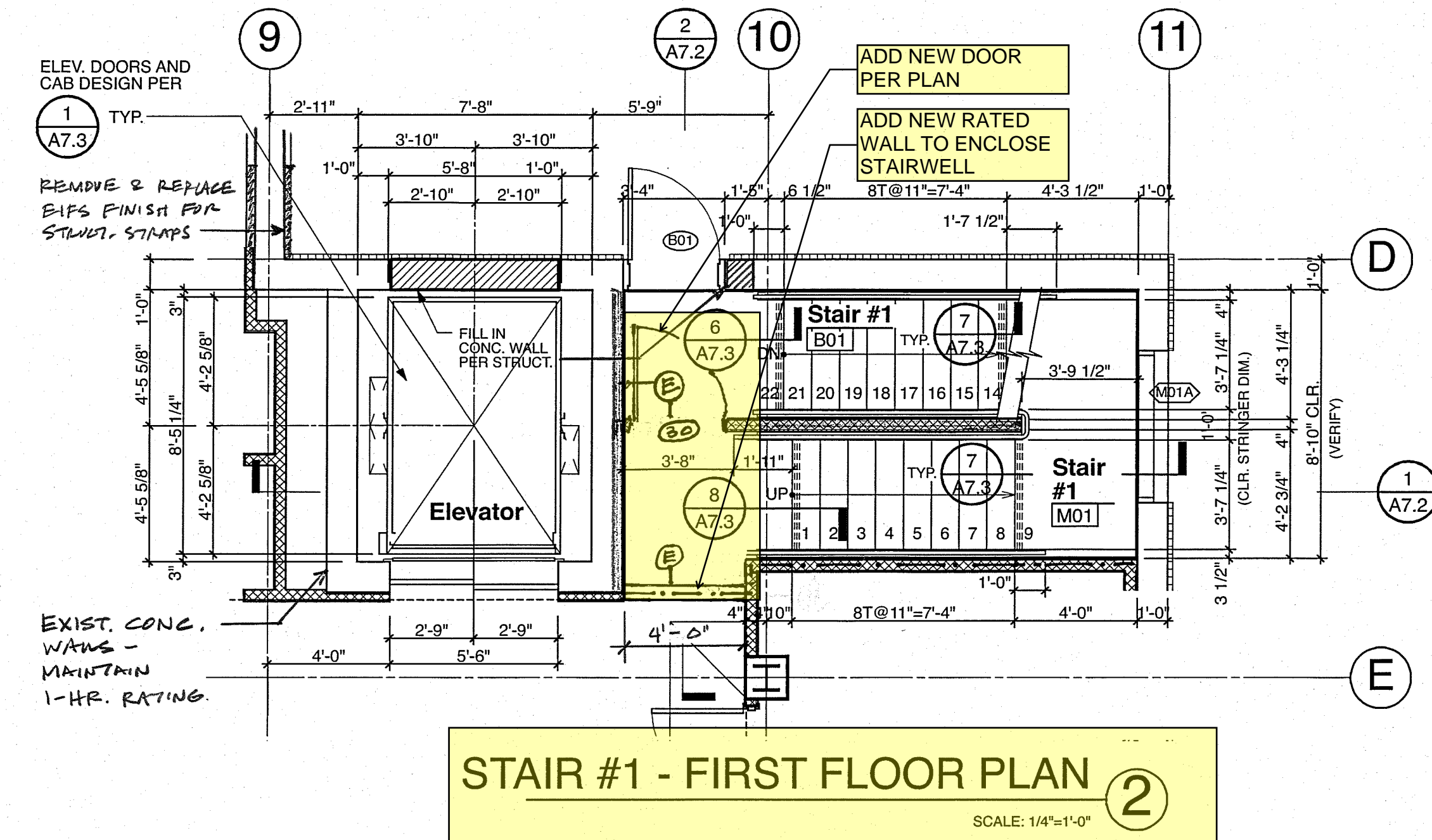
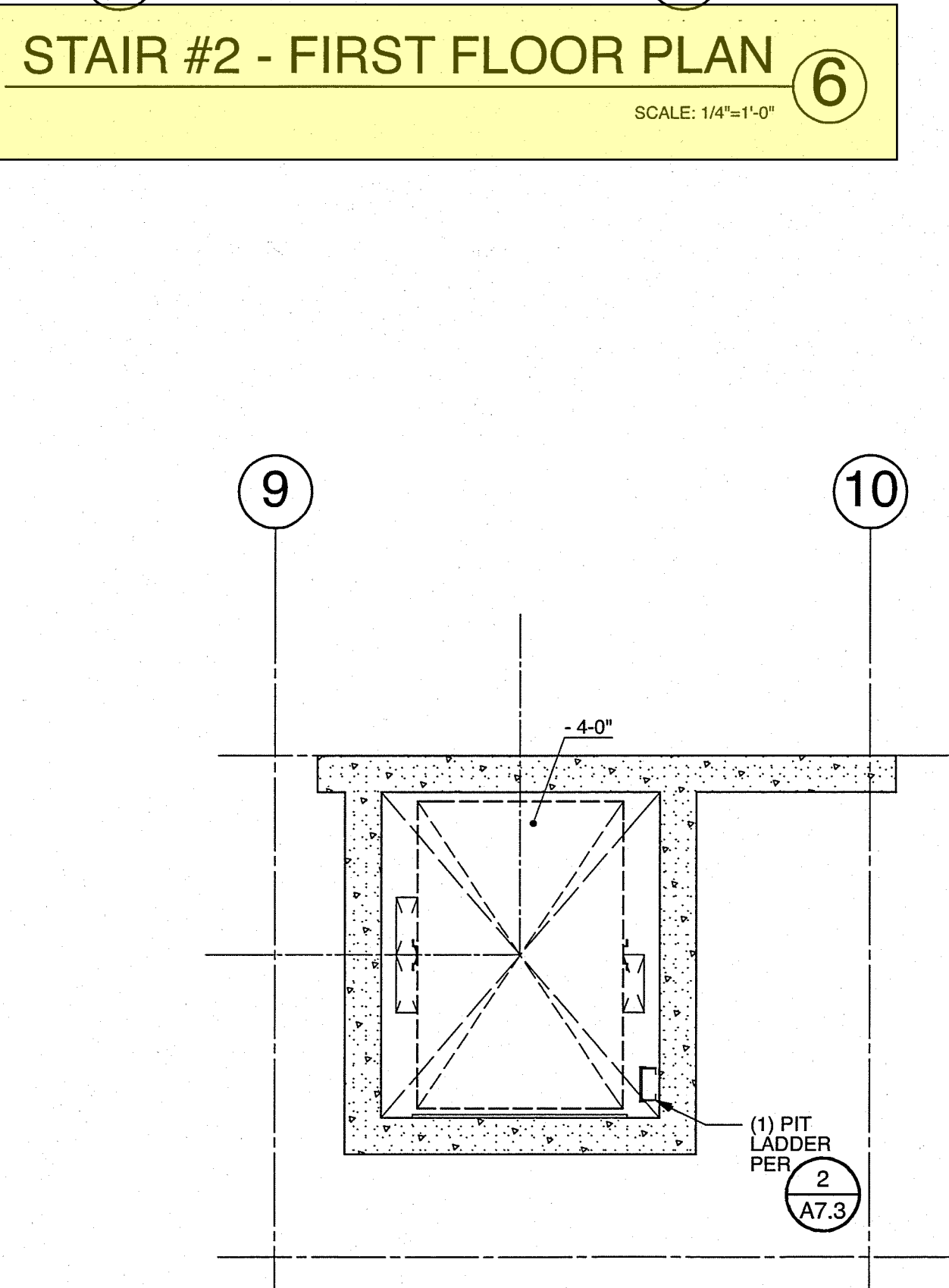
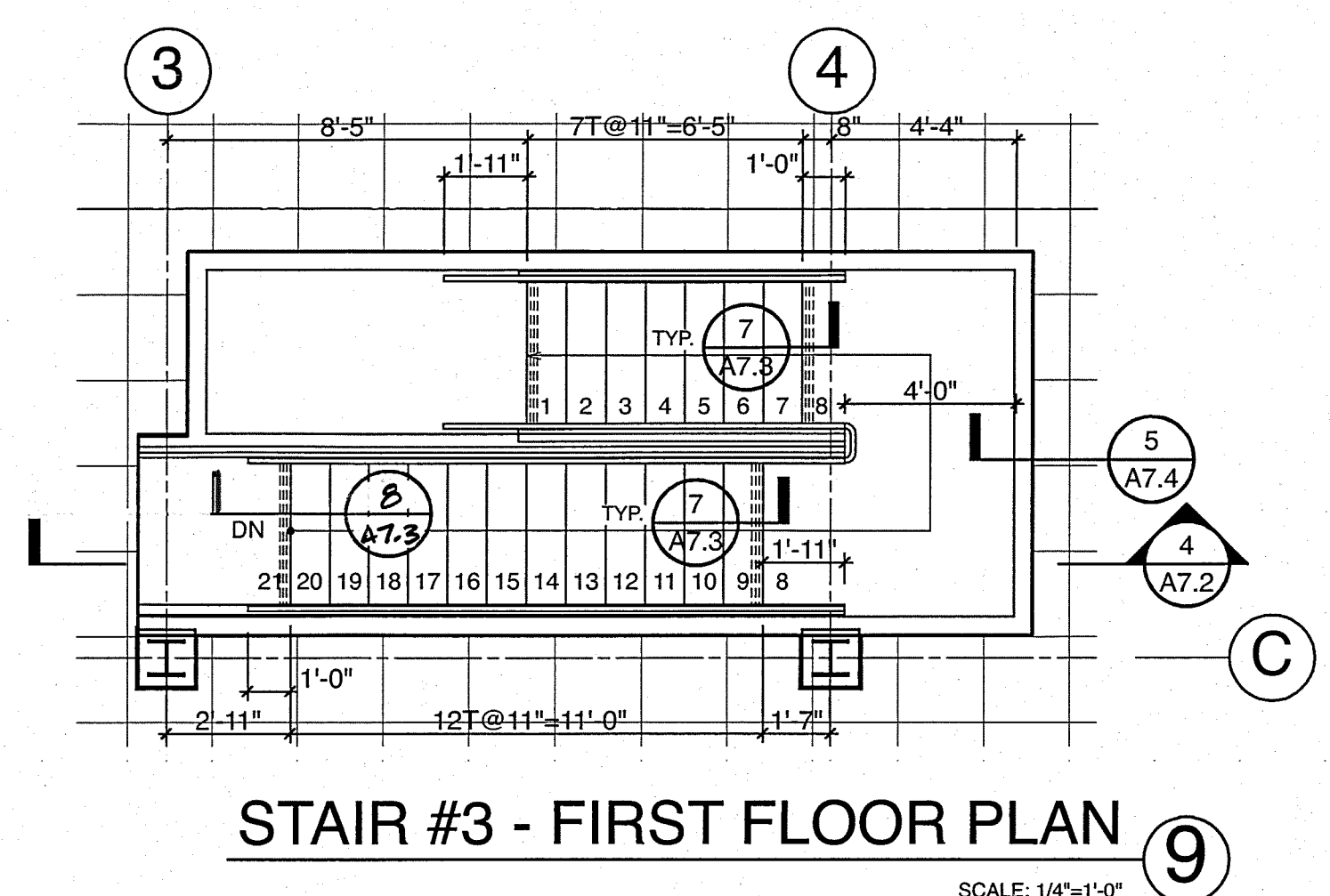
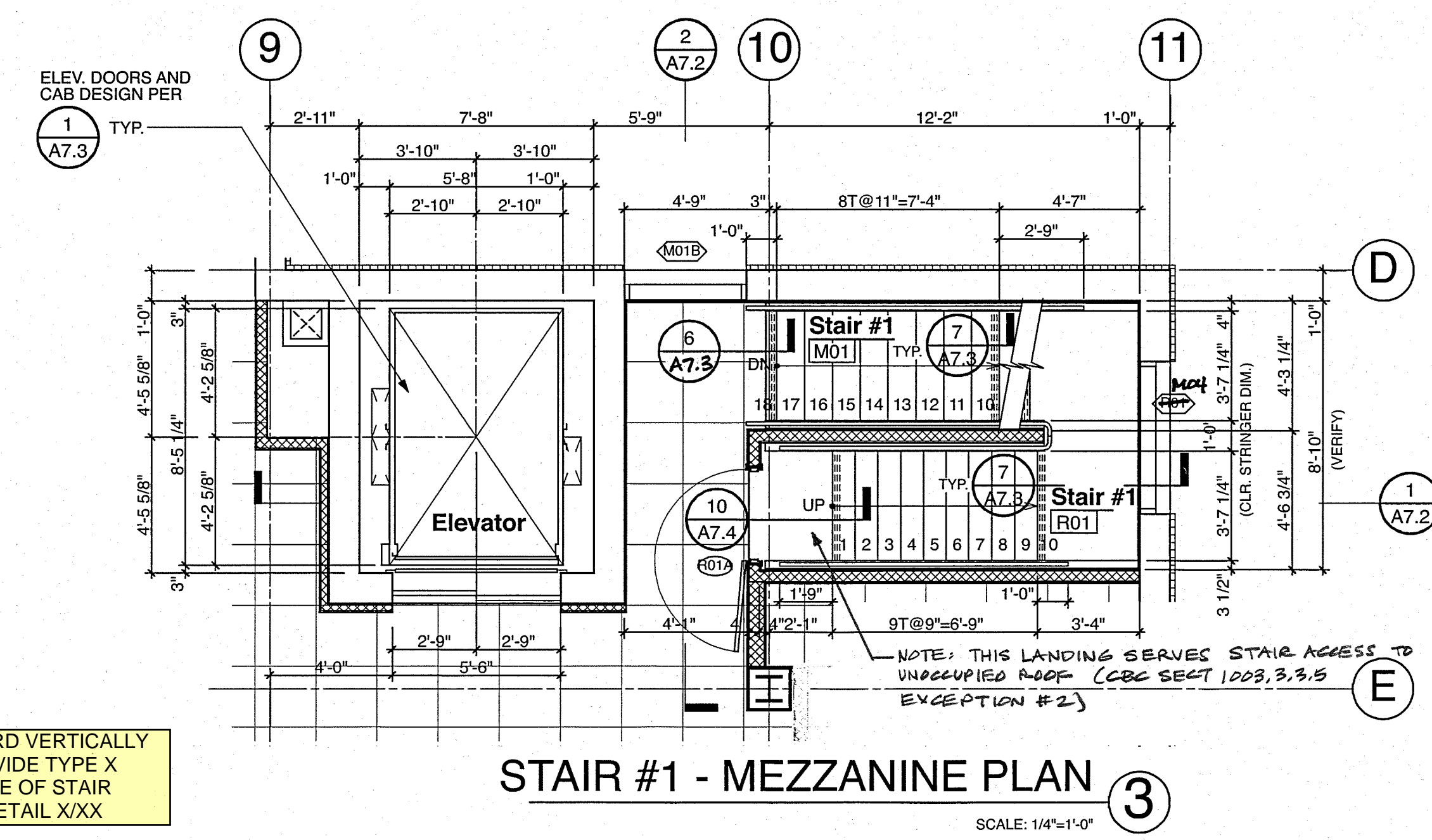
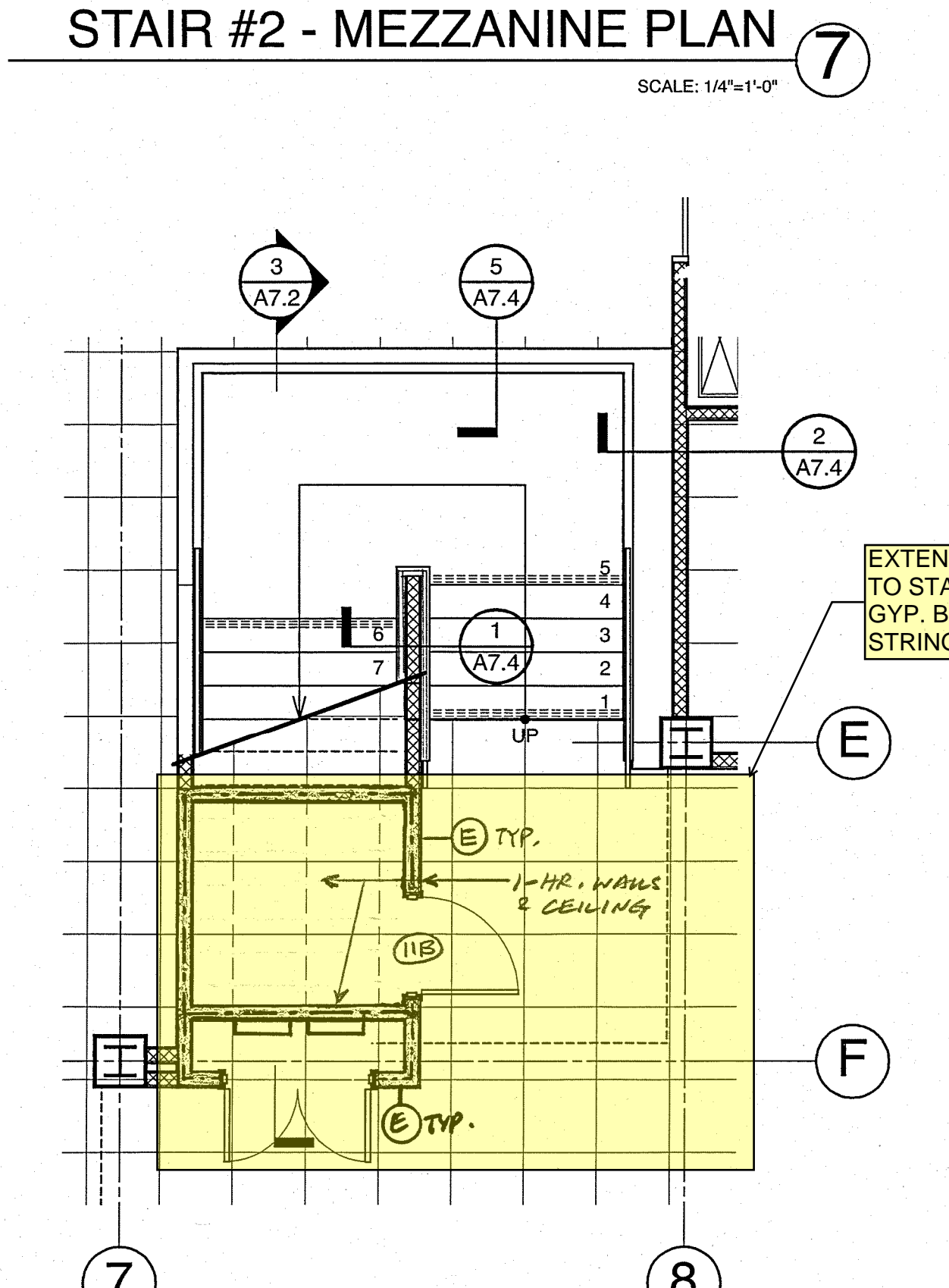
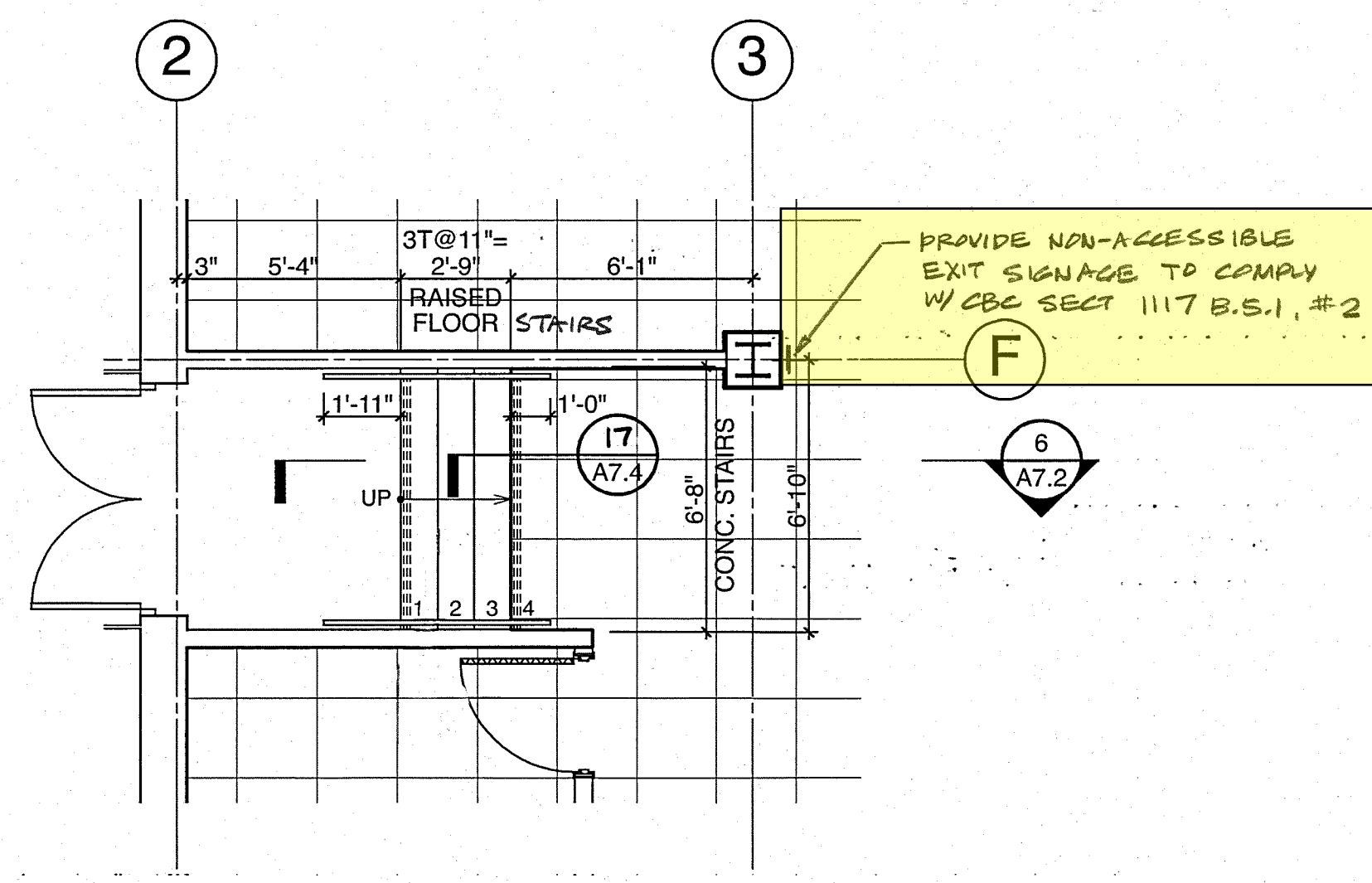
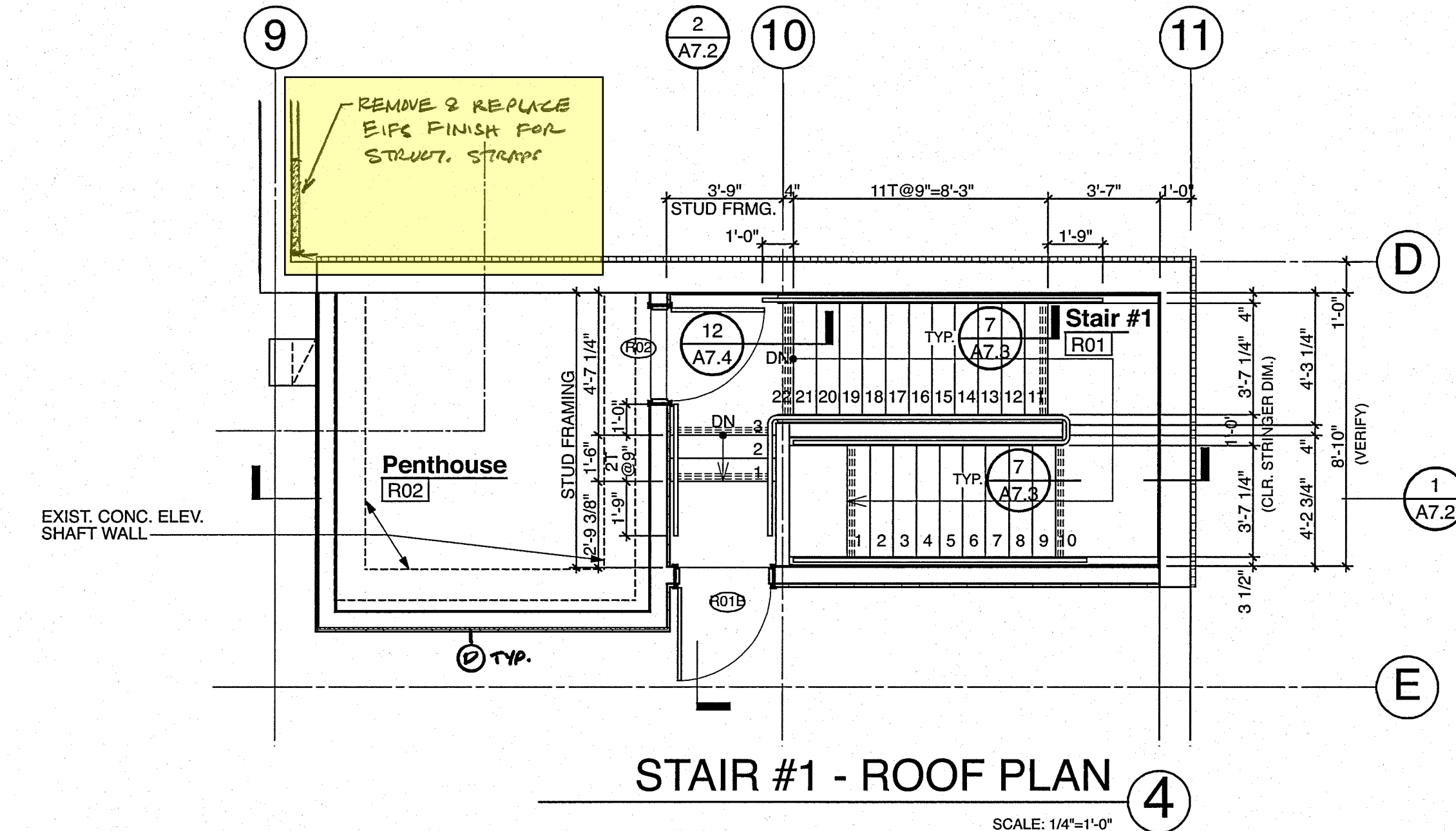
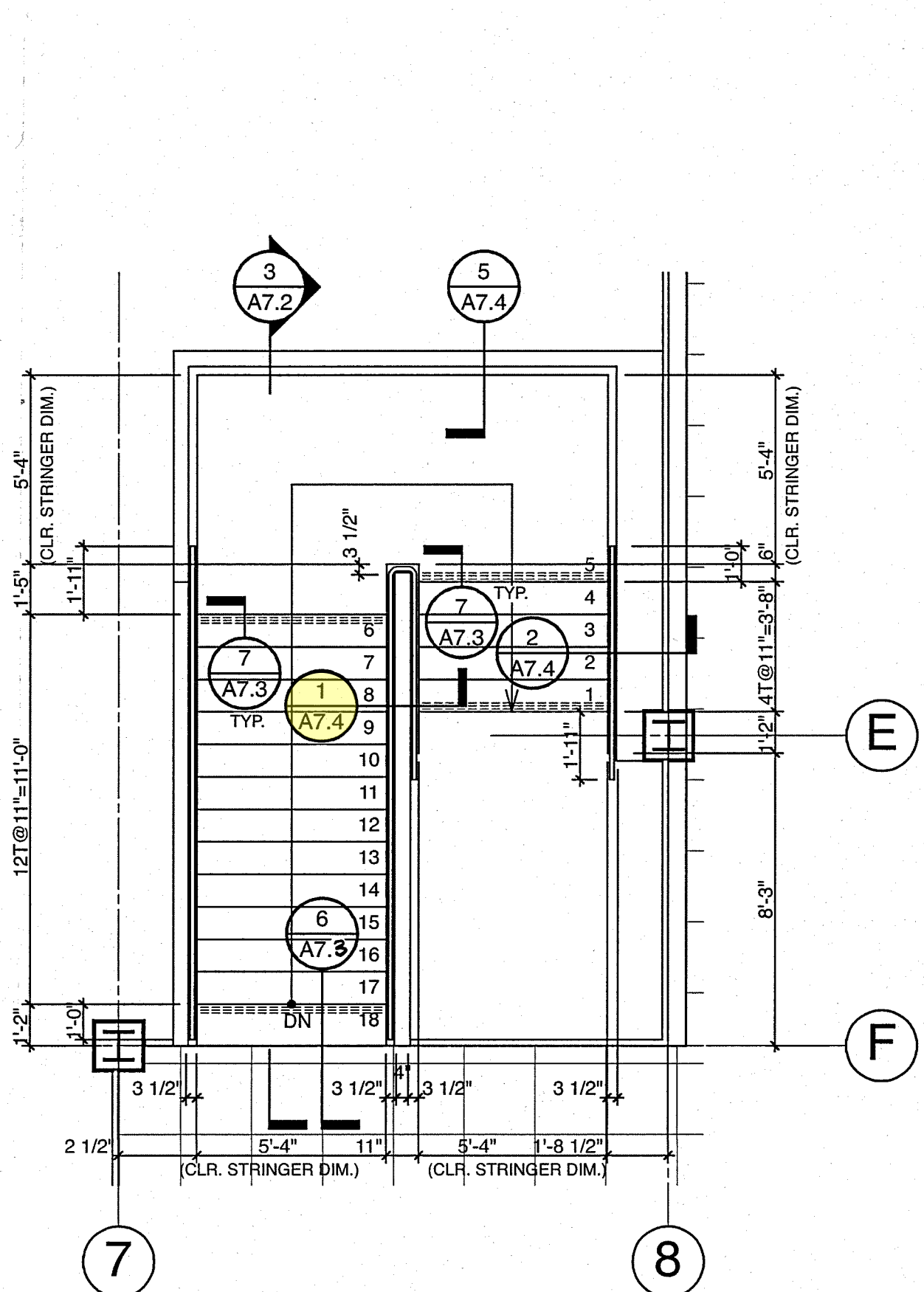
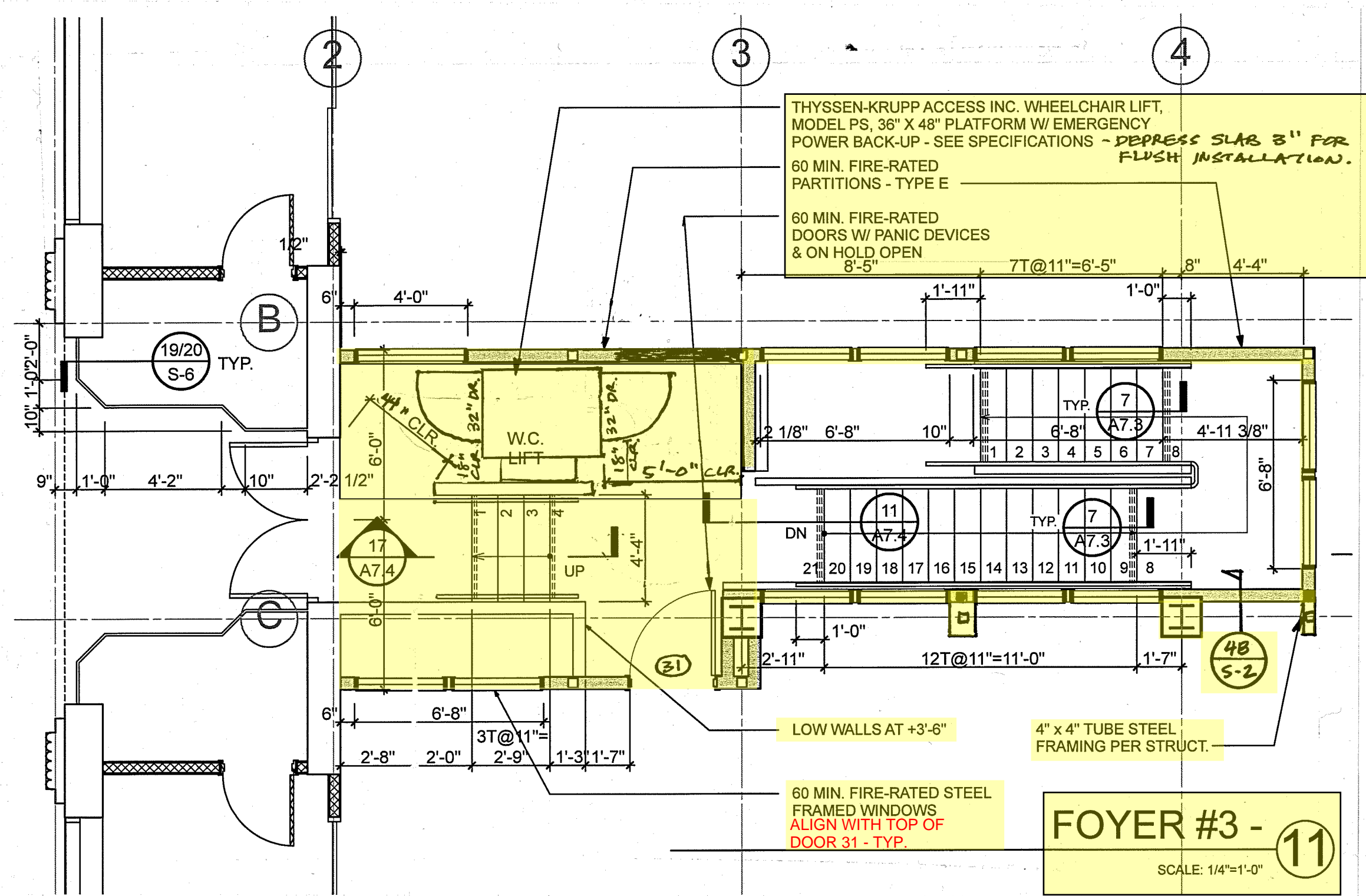
**CLAYPOOL BUILDING RECONSTRUCTION**  
**PALO VERDE COLLEGE, NEEDLES CENTER**  
 PALO VERDE COMMUNITY COLLEGE DISTRICT  
 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363

**REMODEL MEZZANINE REFLECTED CEILING PLAN**

DATE: 07-06-07  
 JOB NO.: 2007-SH95-00  
 DRAWN: RL  
 CHECKED: JVT

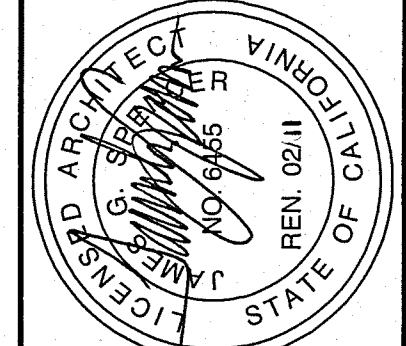
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NO.	DATE	REVISIONS

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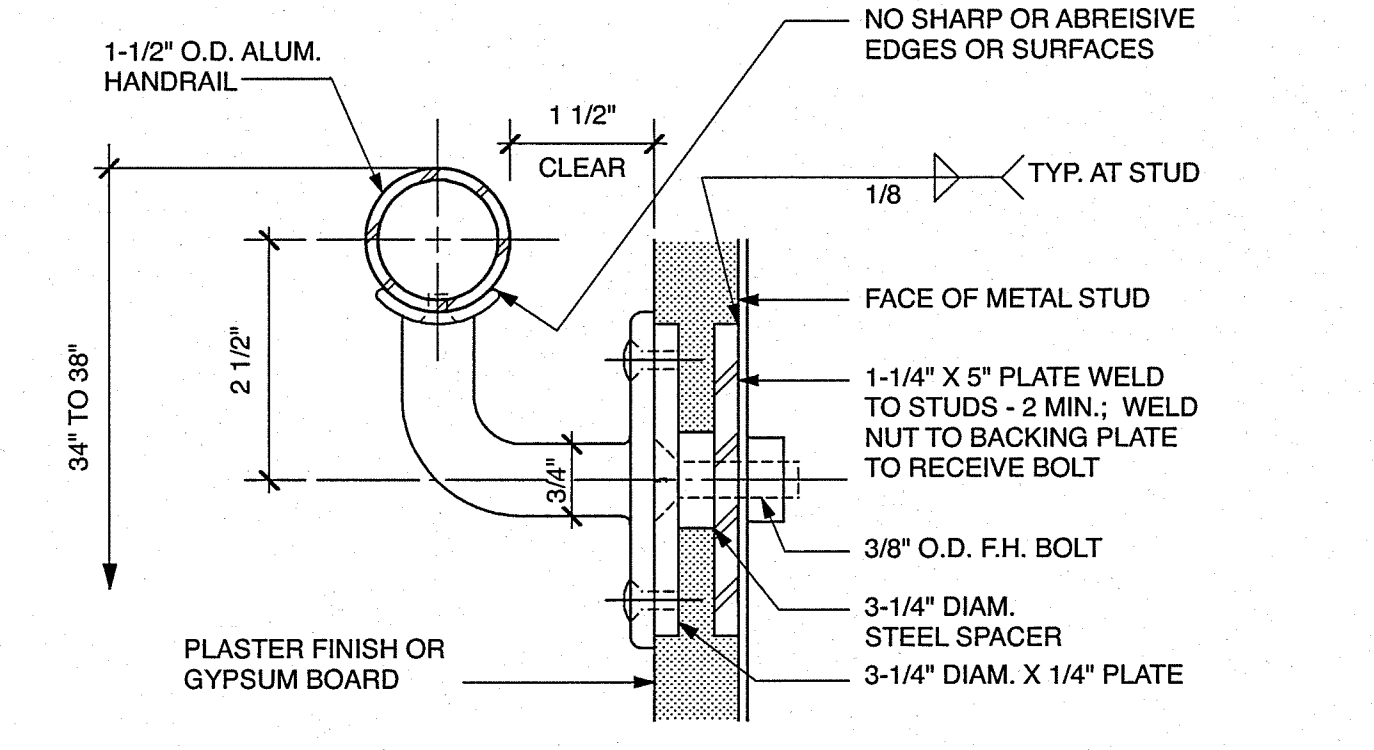


**CLAYPOOL BUILDING RECONSTRUCTION**  
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 PALO VERDE COMMUNITY COLLEGE DISTRICT  
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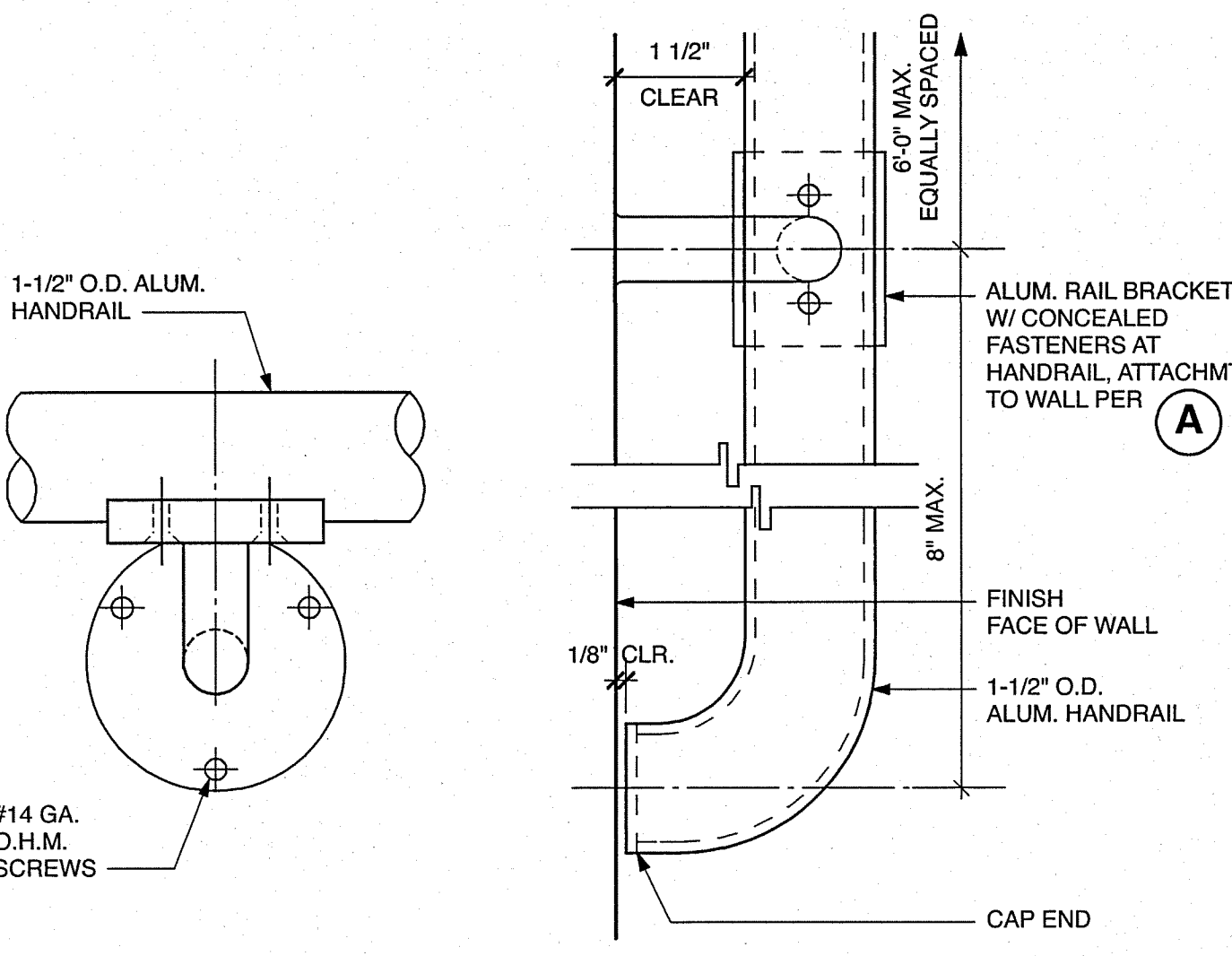
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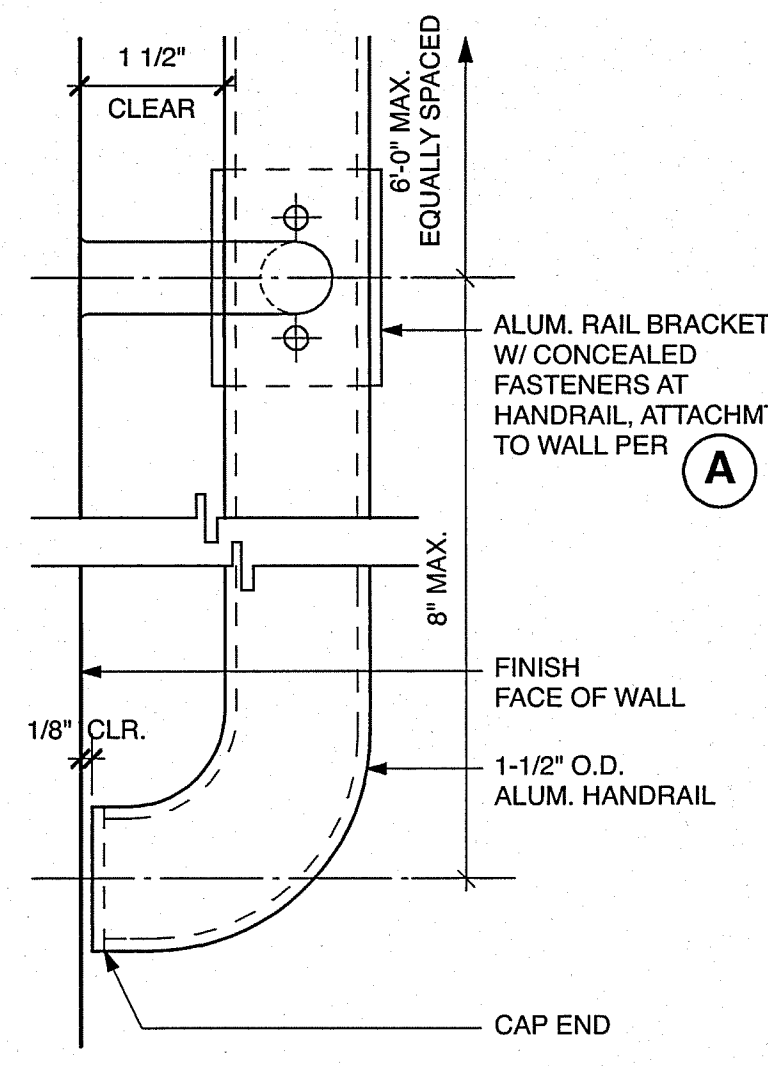




**A HANDRAIL BRACKET DETAIL**  
 @ EXT. PLASTER FINISH OR GYPSUM BOARD ON STEEL STUDS



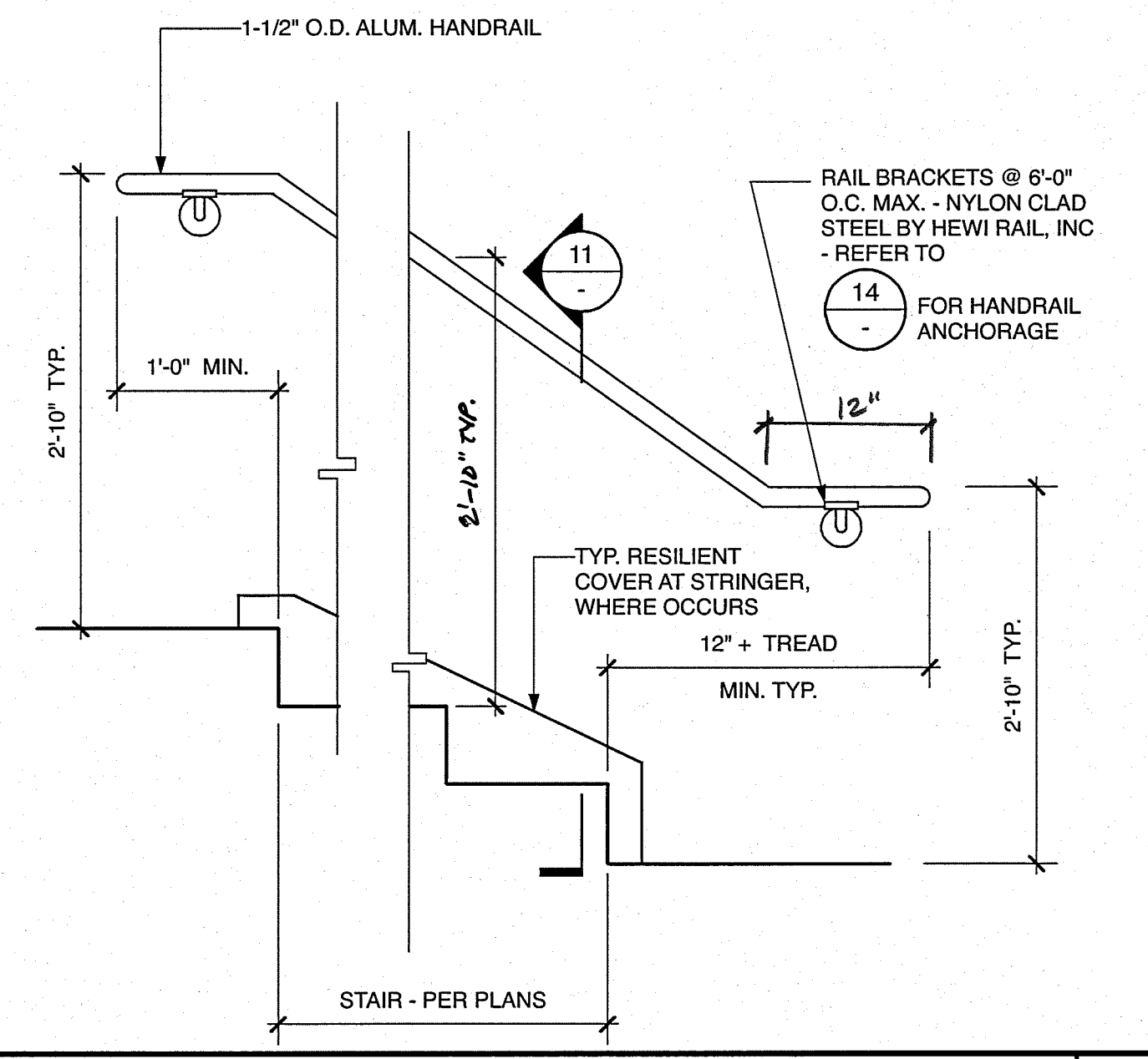
**B BRACKET DETAIL**



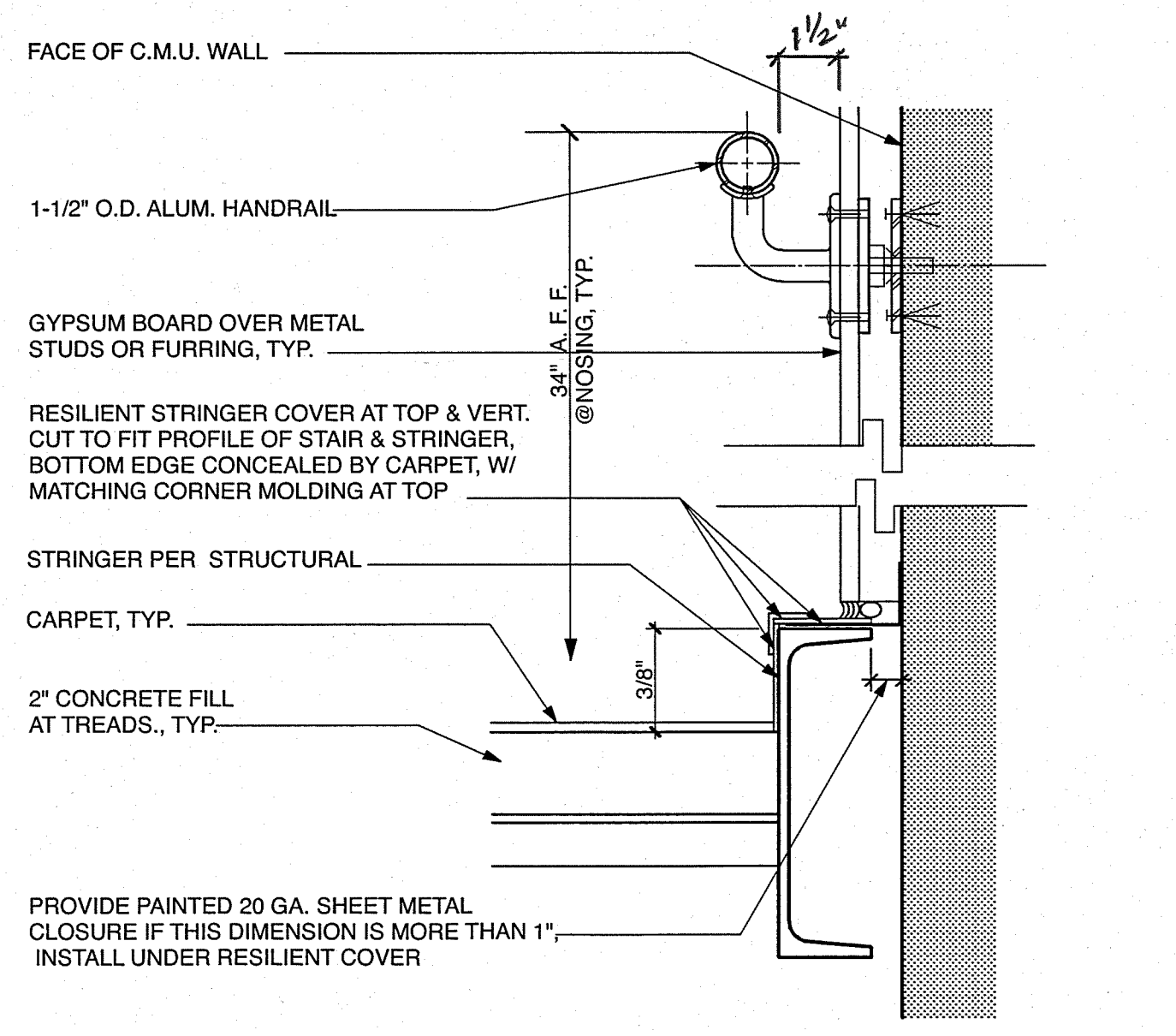
**C HANDRAIL END**

**NOTE:**  
 NO SHARP OR ABRASIVE EDGES OR SURFACES  
 BEHIND HANDRAIL

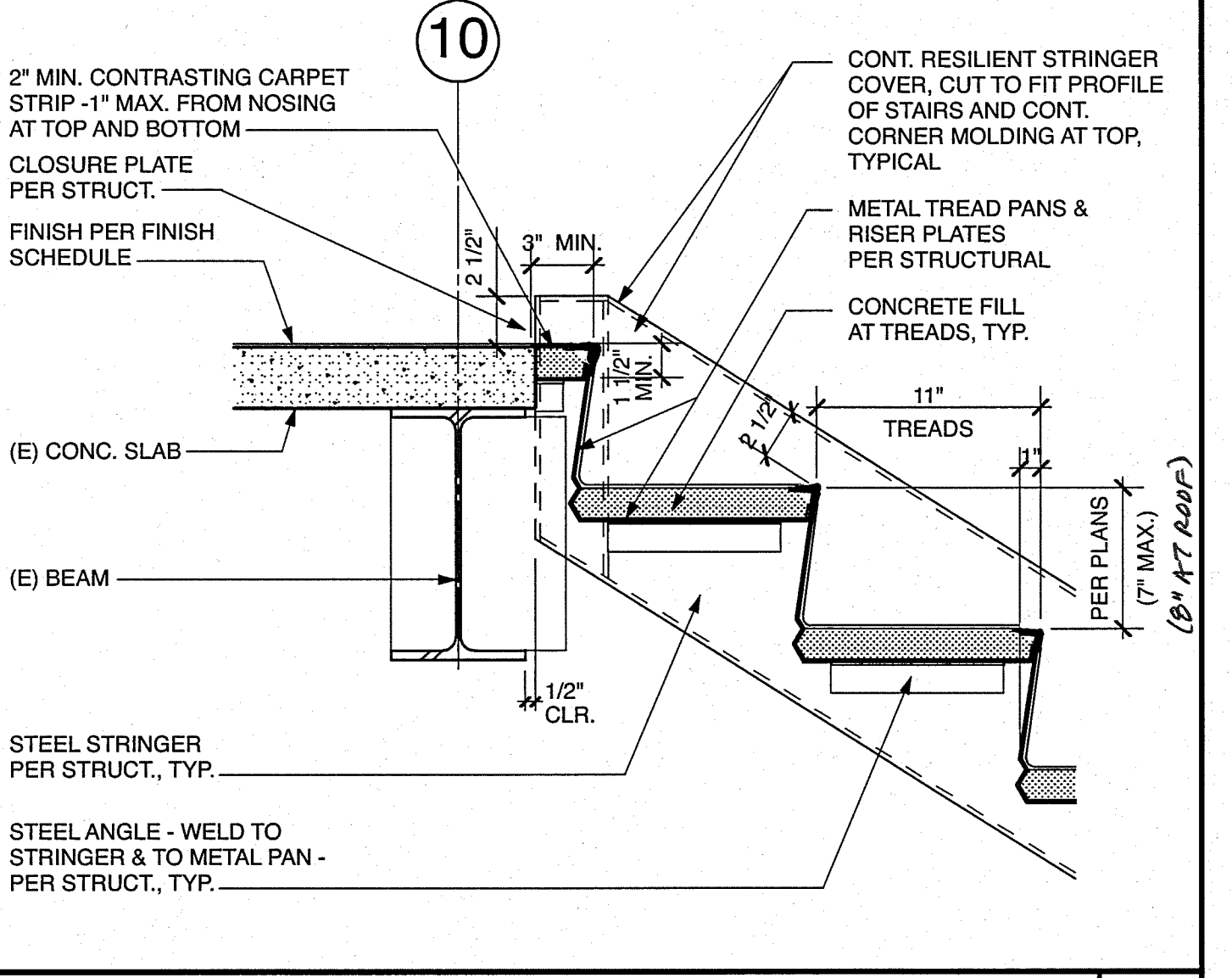
**TYP. HANDRAIL ANCHORAGE**  
 HALF SIZE



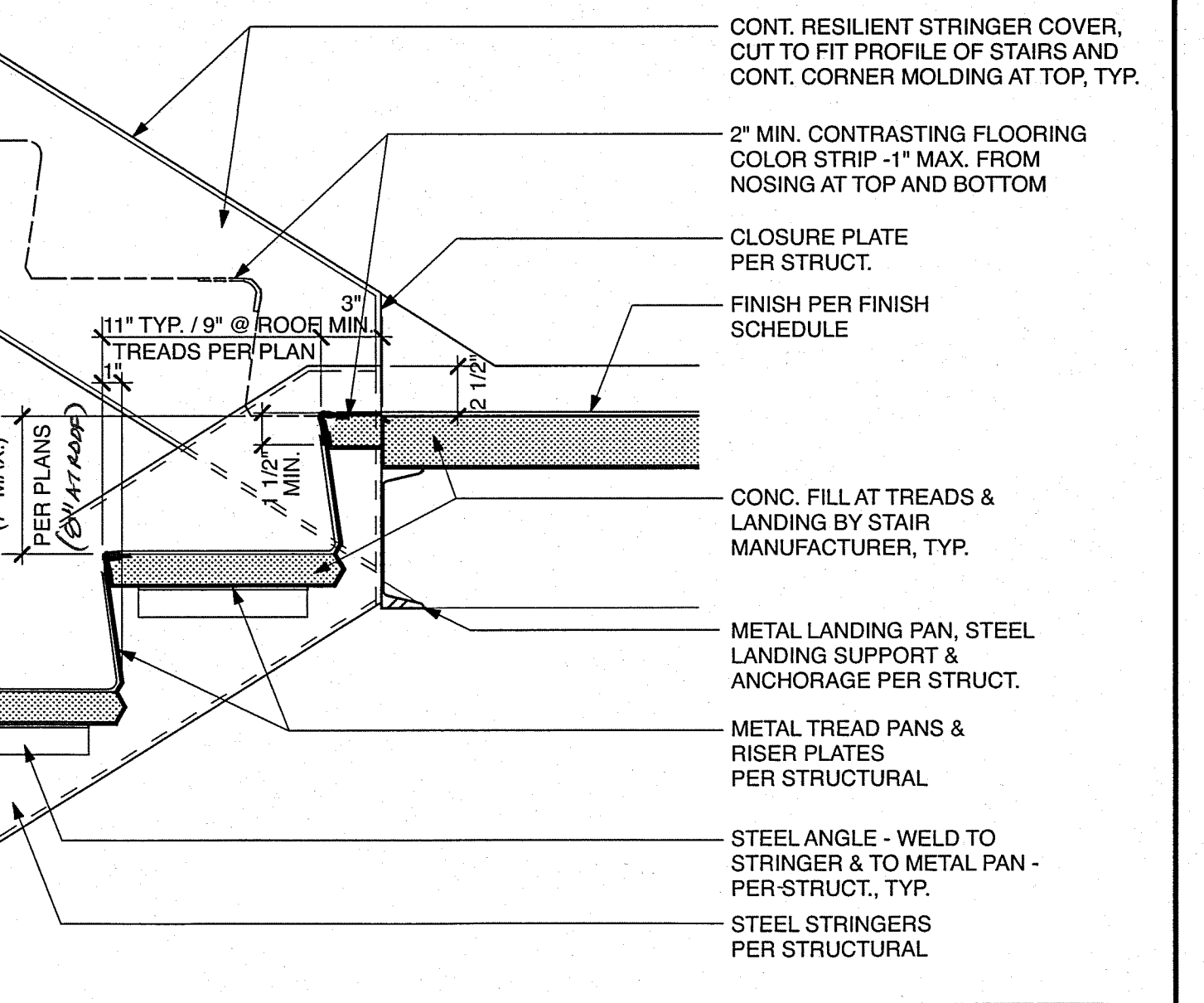
**TYP. HANDRAIL AT STAIRS**  
 1" = 1'-0"



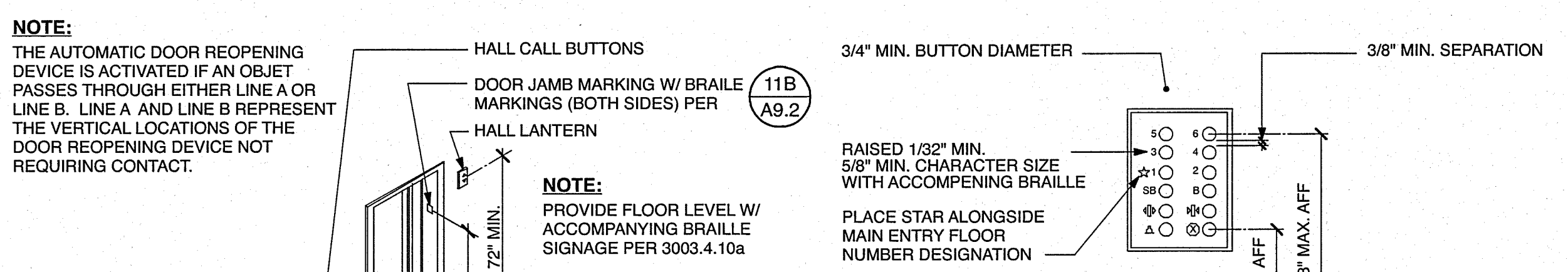
**TYP. STEEL STRINGER AT WALL DETAIL**  
 3" = 1'-0"



**TYP. CONC. FILLED STEEL PAN STAIR AT TOP**  
 1-1/2" = 1'-0"

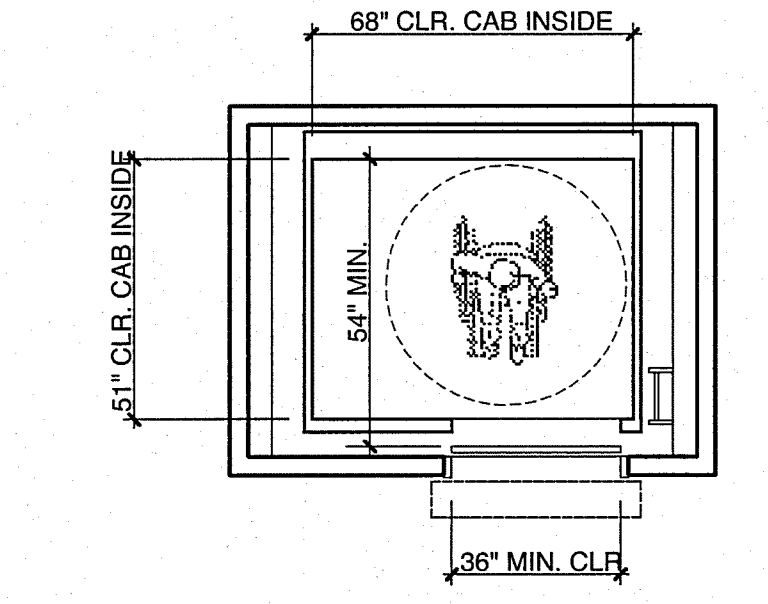


**TYP. CONC. FILLED STEEL PAN STAIR AT LANDING**  
 1-1/2" = 1'-0"

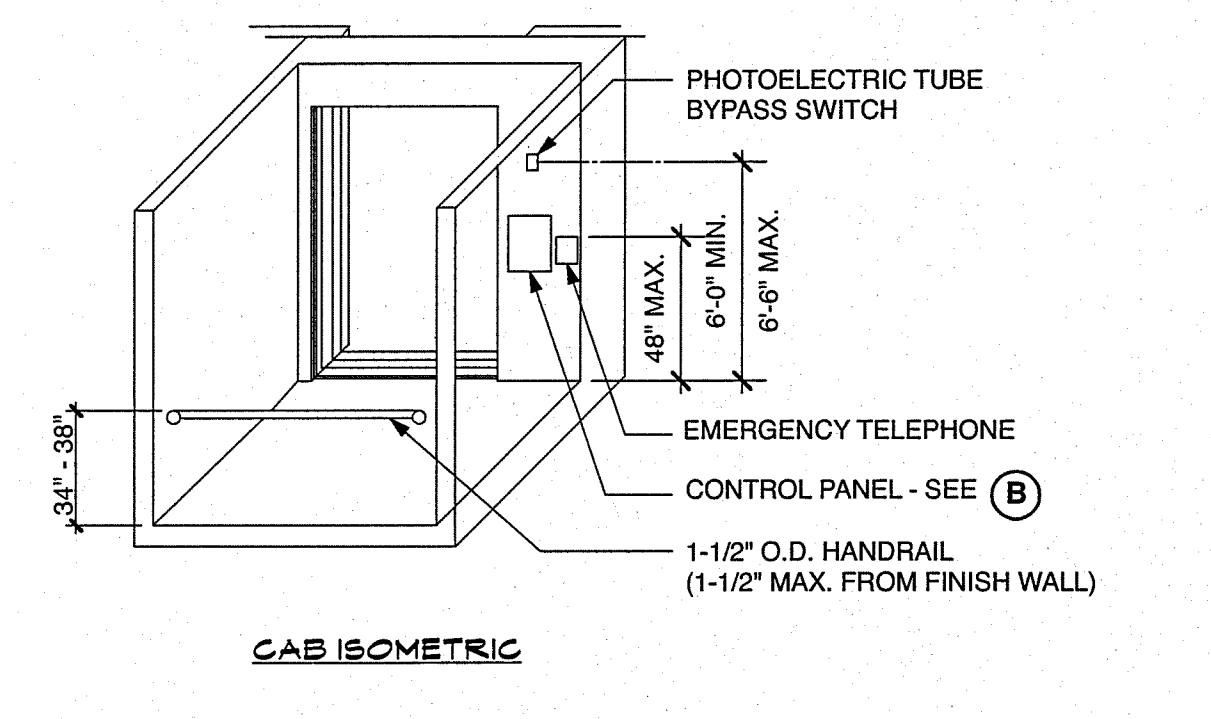


**A HALL ISOMETRIC**

**B CONTROL PANEL DETAIL**



**C MIN. DIMENSIONS @ ELEV. CAB**

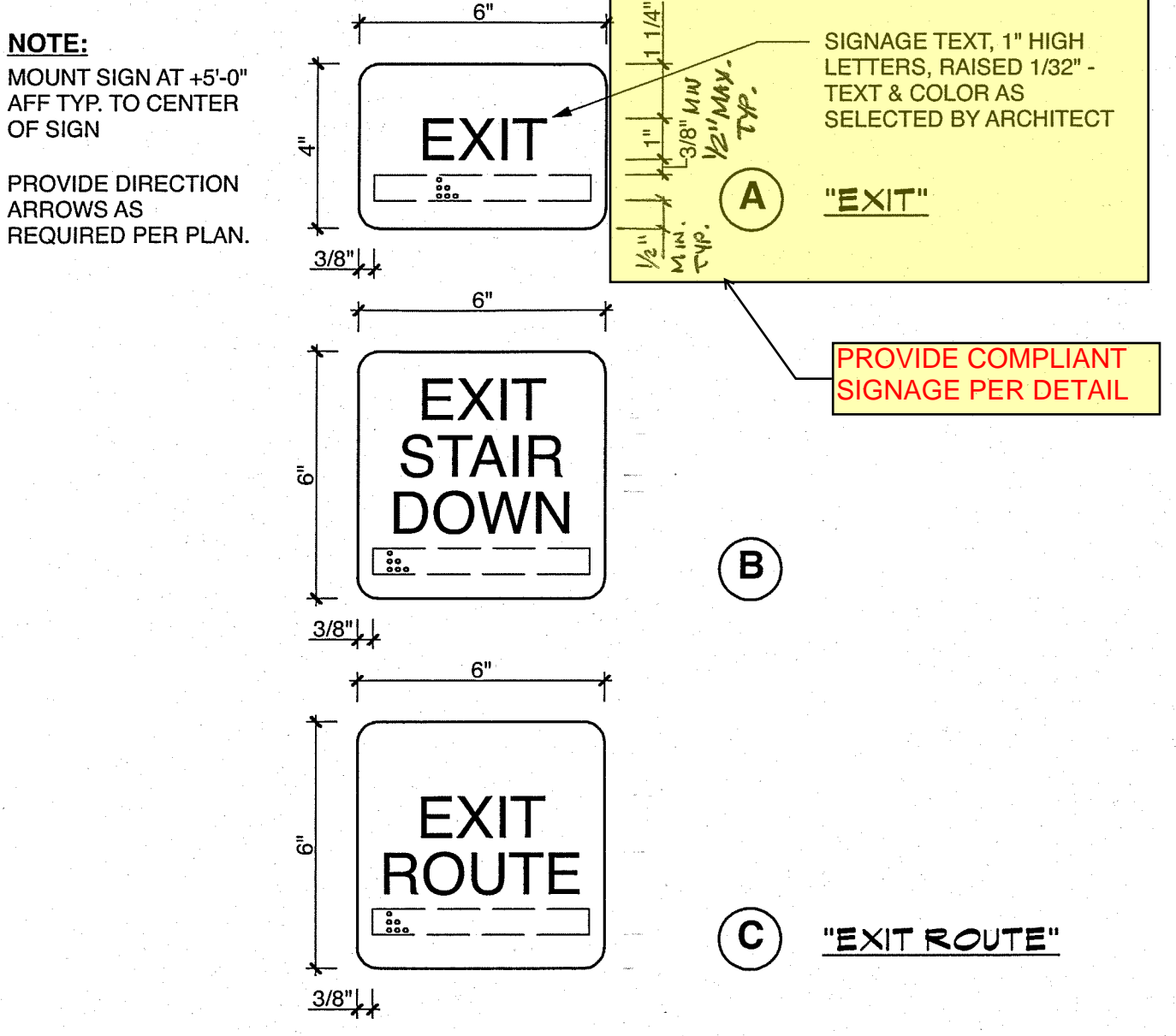


**D ELEVATOR CONTROL PANEL**

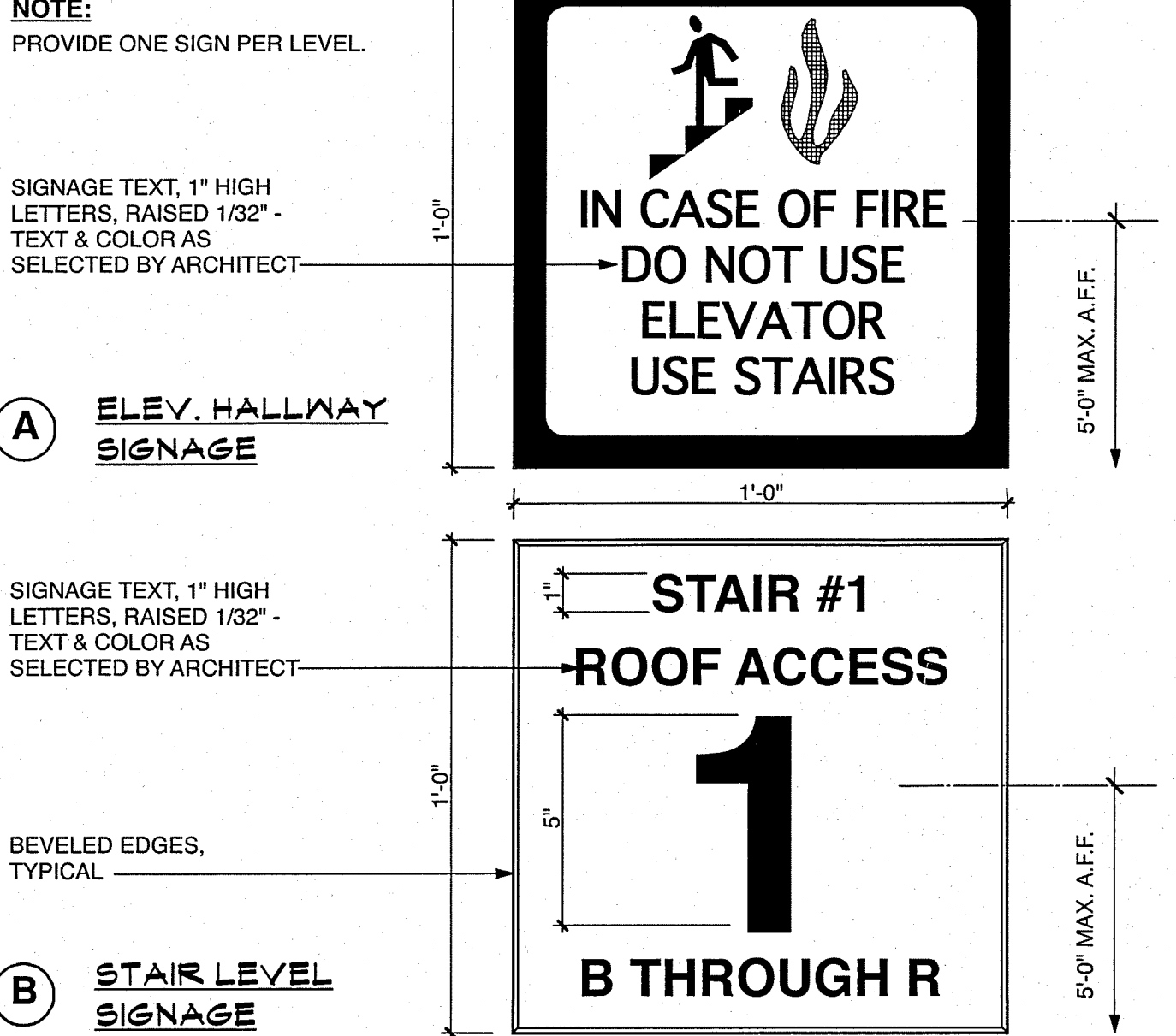
**ELEVATOR NOTES:**

- ELEVATOR CONTRACTOR TO VERIFY ALL CONDITIONS AND DIMENSIONS IN THE FIELD; ANY CONFLICT OR UNSUITABLE CONDITION SHALL BE REPORTED TO THE ARCHITECT TO BE RESOLVED BEFORE BIDDING.
- INSTALLATION OF ELEVATOR GUIDE RAILS, BRACKETS AND SHEAVE BEAMS SHALL NOT BE STARTED UNTIL DETAILED PLANS, SPECIFICATIONS AND ENGINEERING CALCULATIONS HAVE BEEN SUBMITTED, ACCEPTED, AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER IN GENERAL CHARGE.
- ELEVATOR CAB AND COUNTER WEIGHT GUIDE RAILS SHALL BE DESIGNED TO RESIST A HORIZONTAL FORCE TO COMPLY WITH CALIFORNIA BUILDING CODE, SECTION 1633.A.2.13.
- REFER TO SPECIFICATION SECTION 14200 FOR ADDITIONAL REGULATORY REQUIREMENTS.

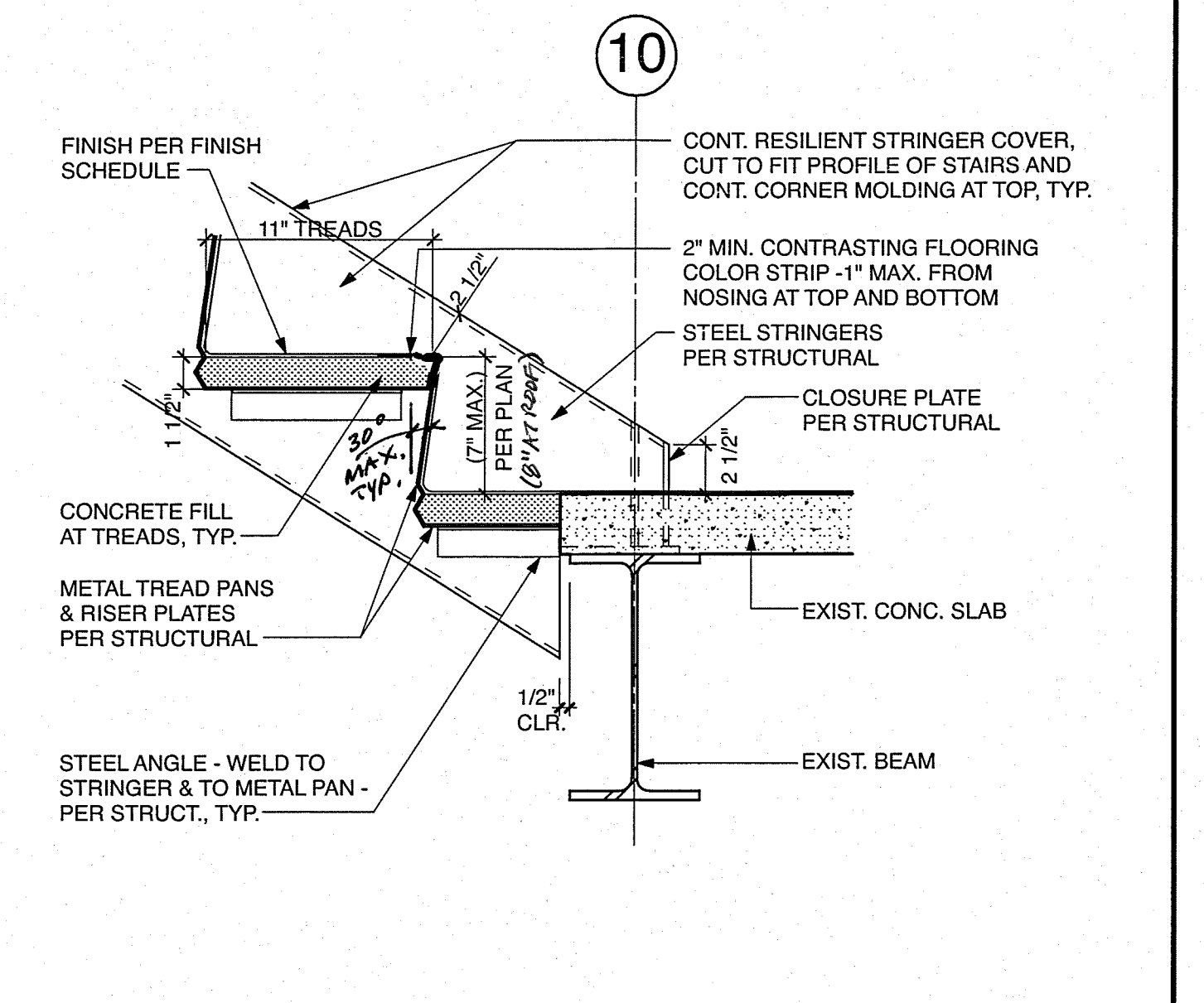
**TYP. ELEVATOR DETAILS AND NOTES**  
 NO SCALE



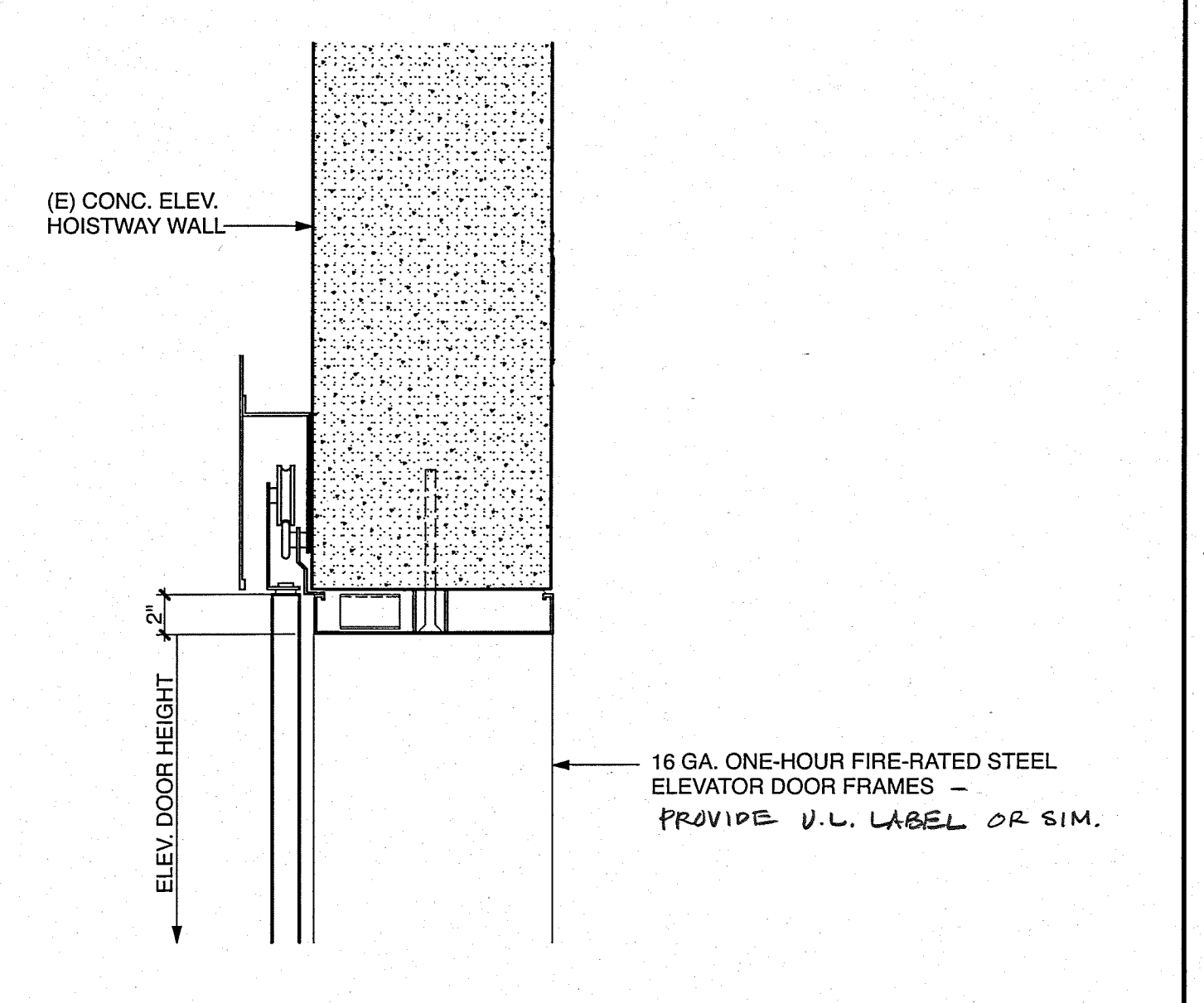
**TYP. TACTILE EXIT SIGNAGE**  
 3" = 1'-0"



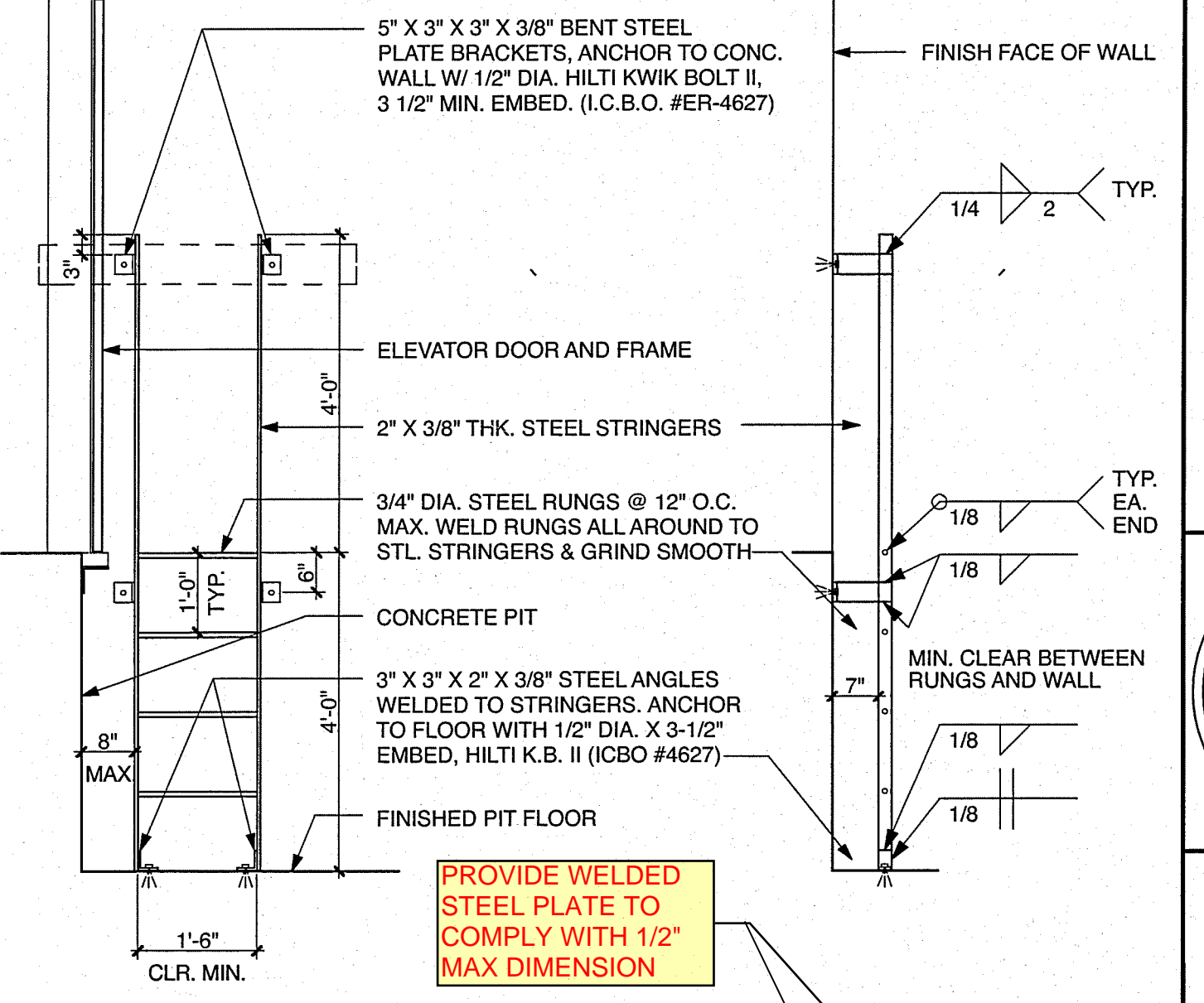
**TYP. STAIR SIGNAGE**  
 3" = 1'-0"



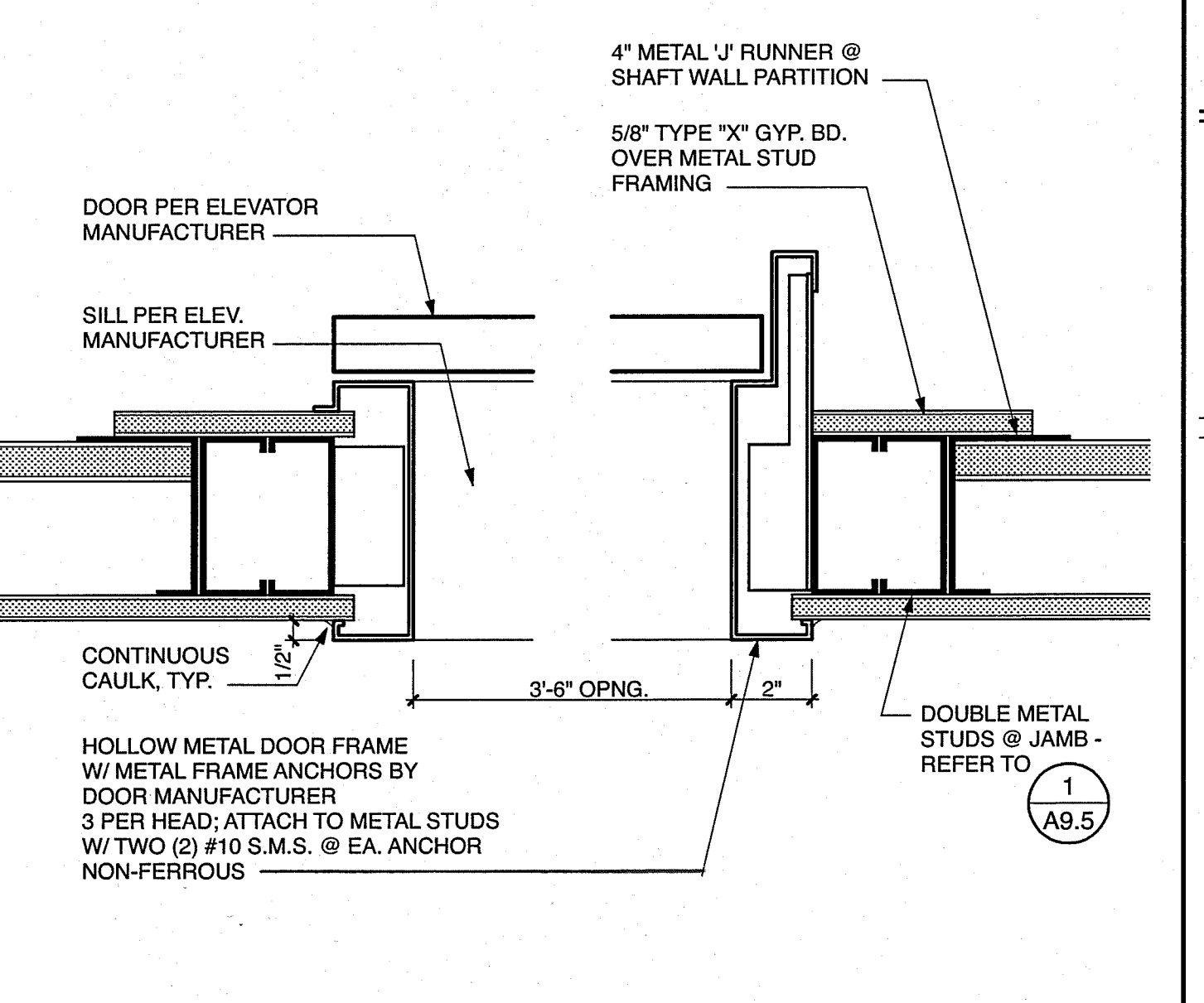
**CONC. FILLED STEEL PAN STAIR AT CONC. LANDING**  
 1-1/2" = 1'-0"



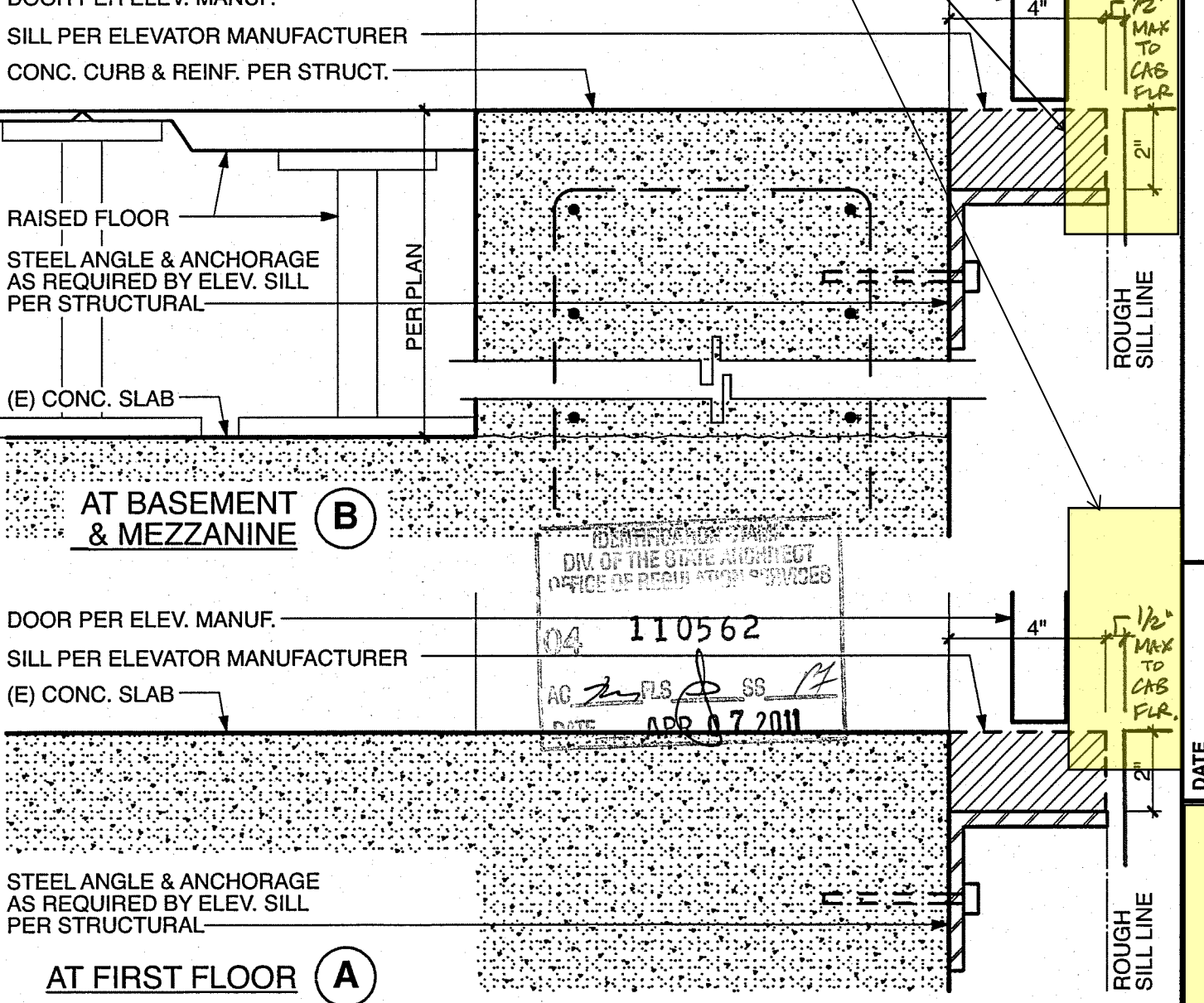
**TYP. ELEV. DOOR HEAD**  
 1-1/2" = 1'-0"



**TYP. ELEVATOR PIT LADDER**  
 1/2" = 1'-0"



**TYP. ELEVATOR DOOR JAMBS**  
 3" = 1'-0"



**TYP. ELEVATOR DOOR SILL**  
 3" = 1'-0"

NO.	DATE	REVISIONS

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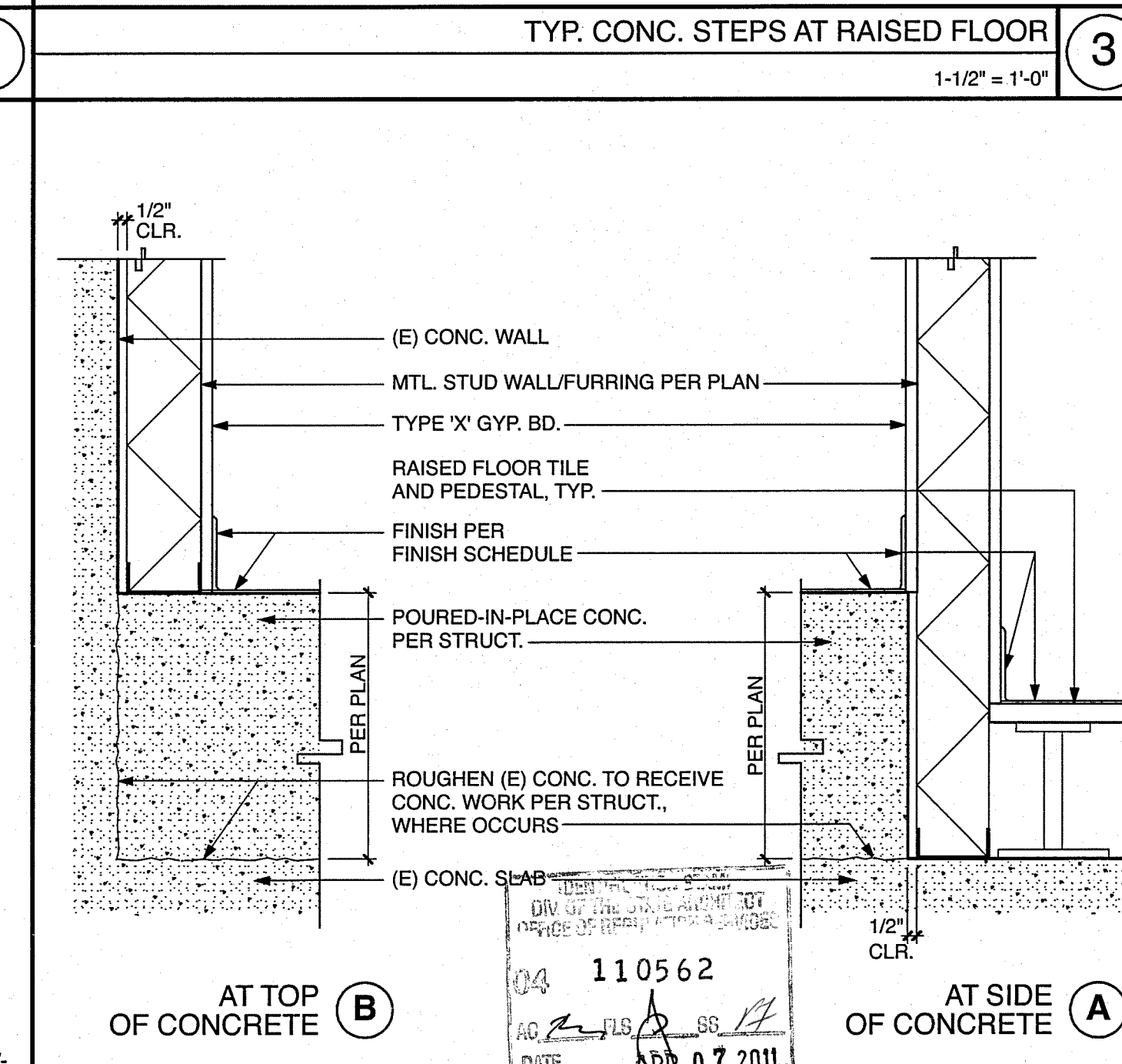
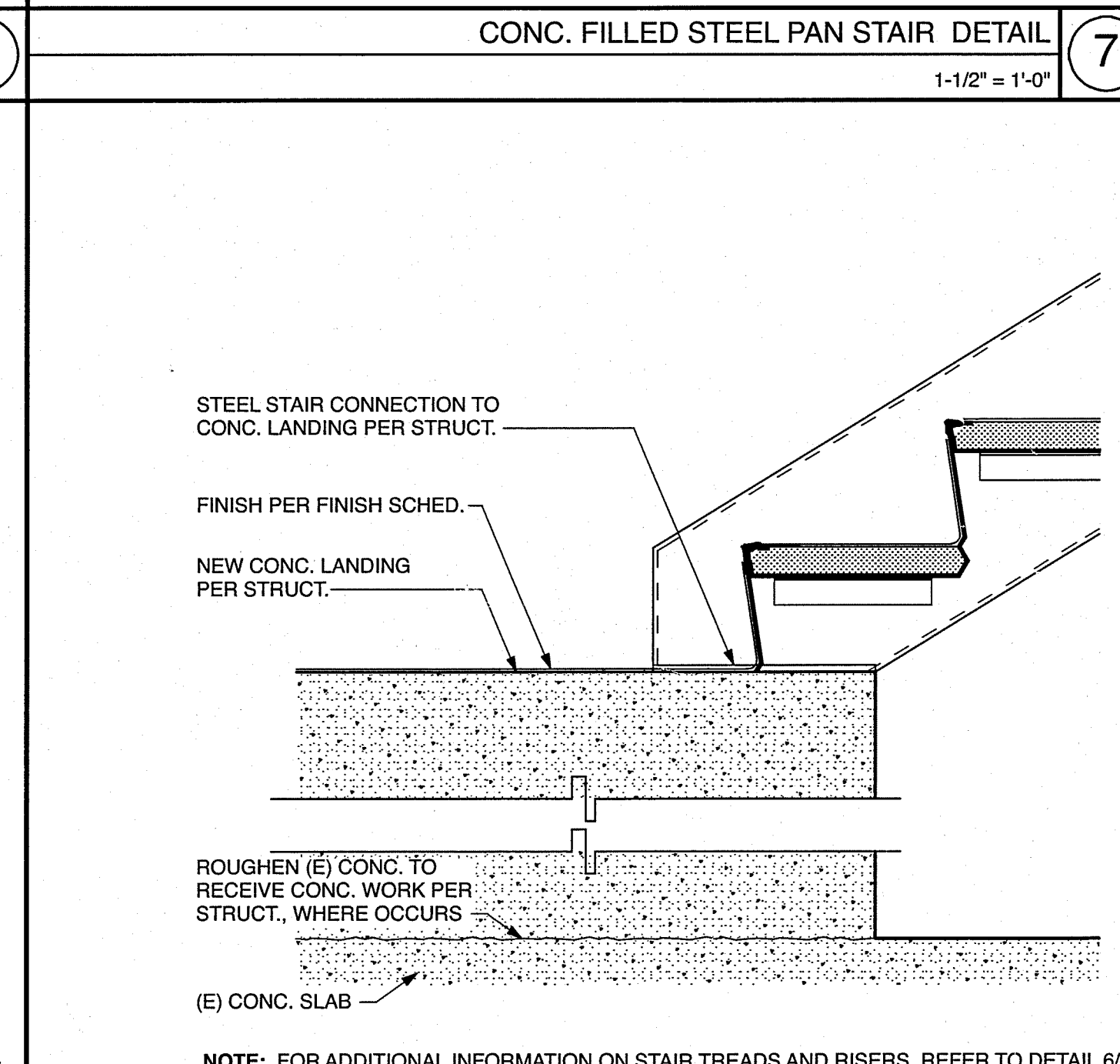
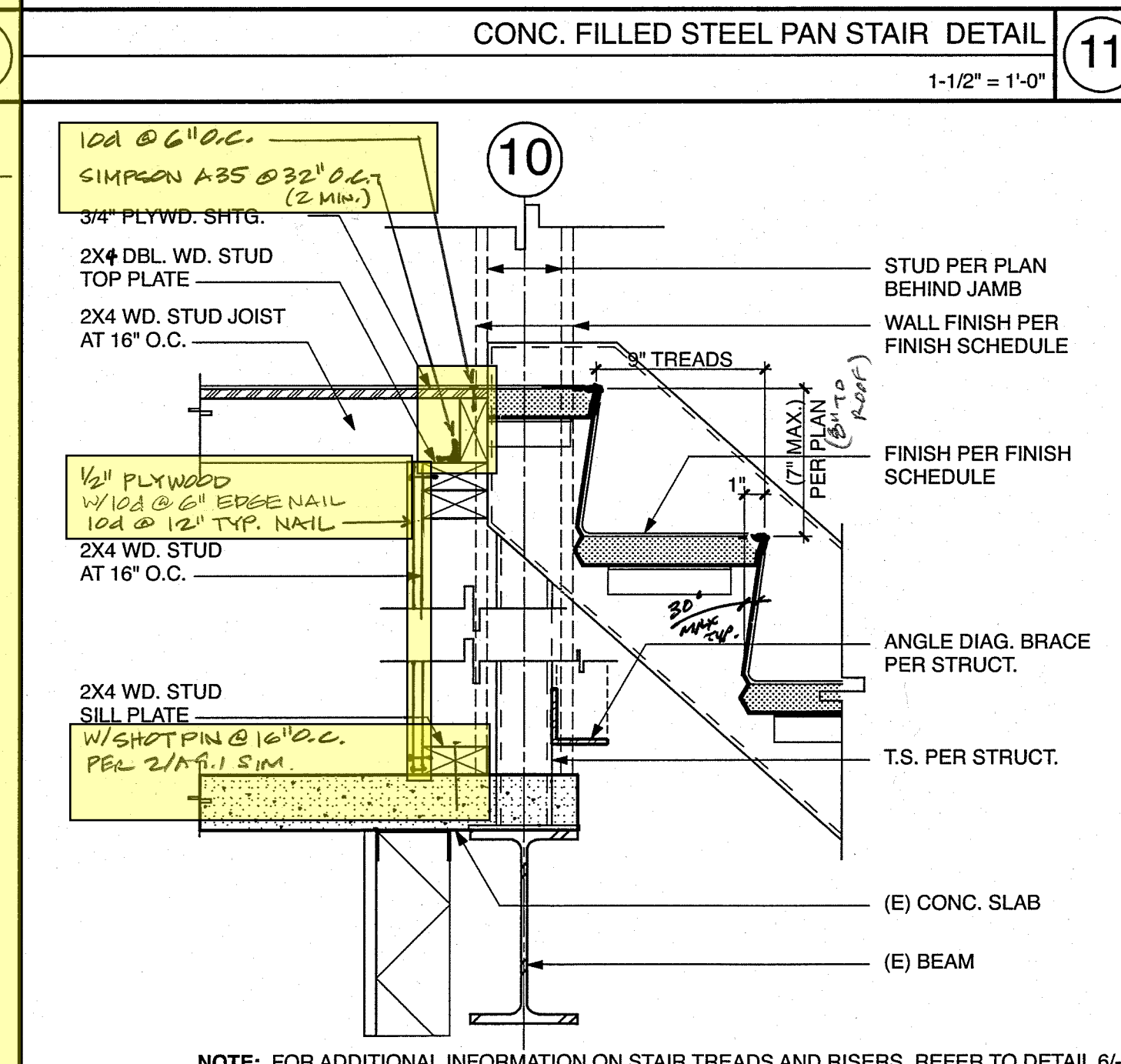
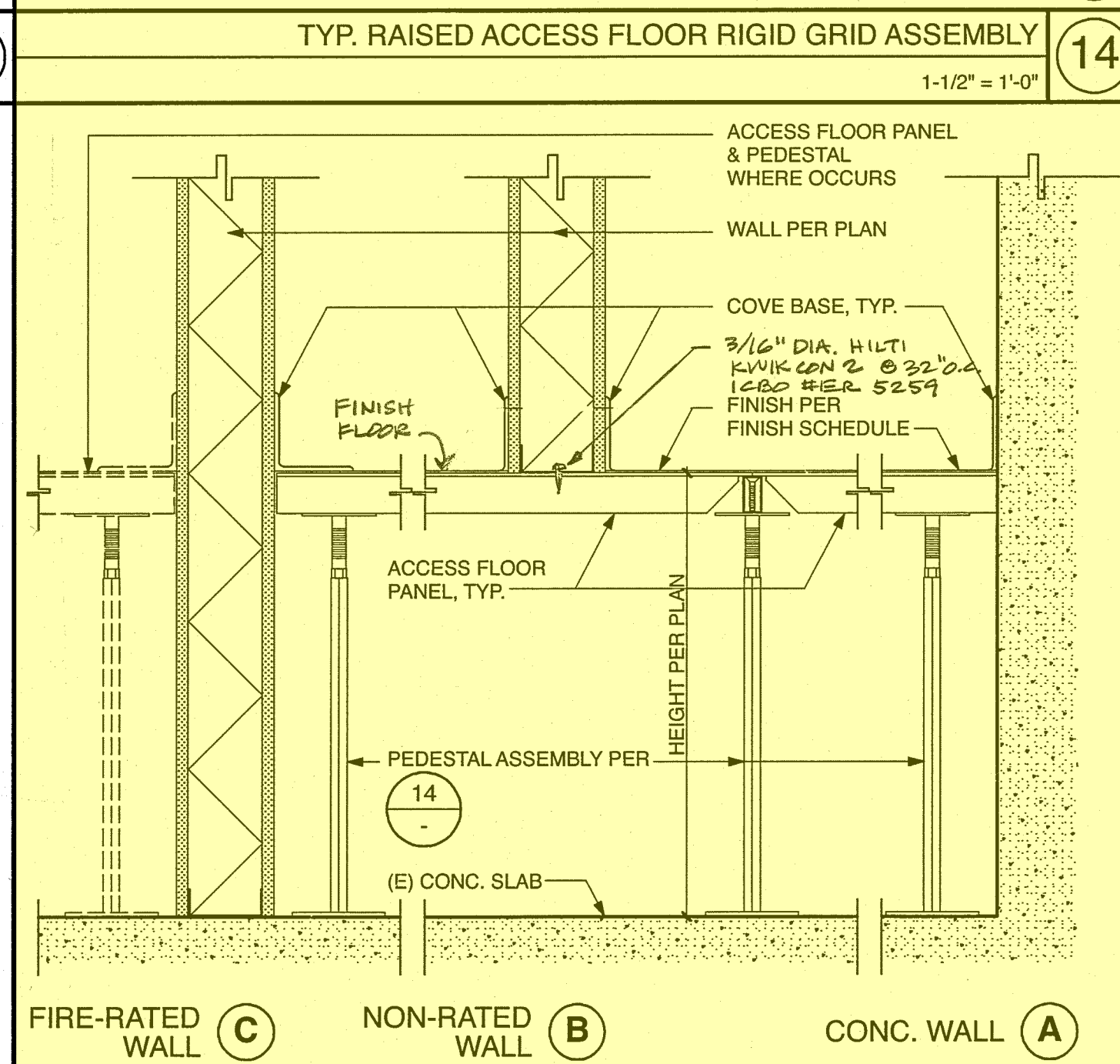
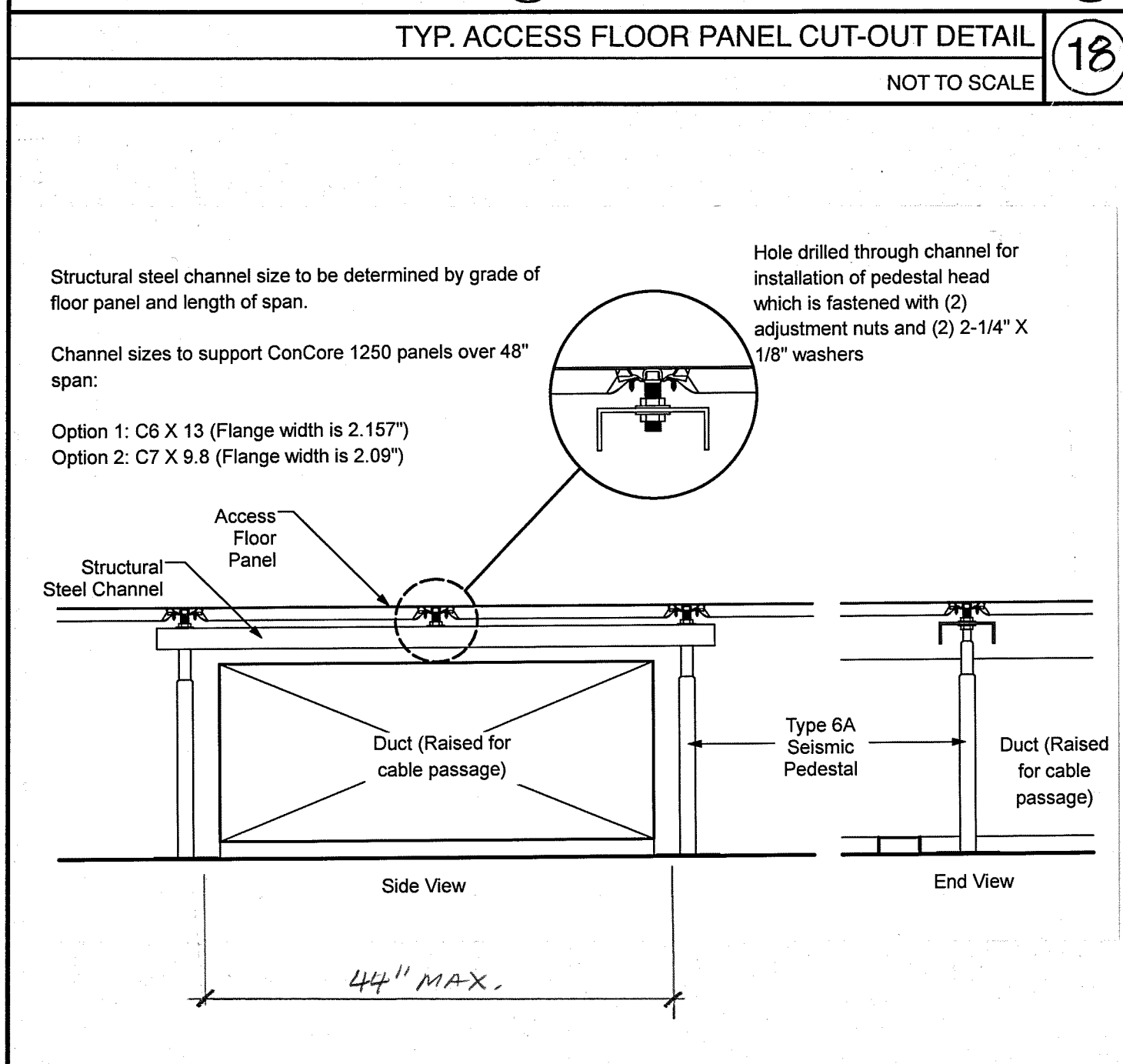
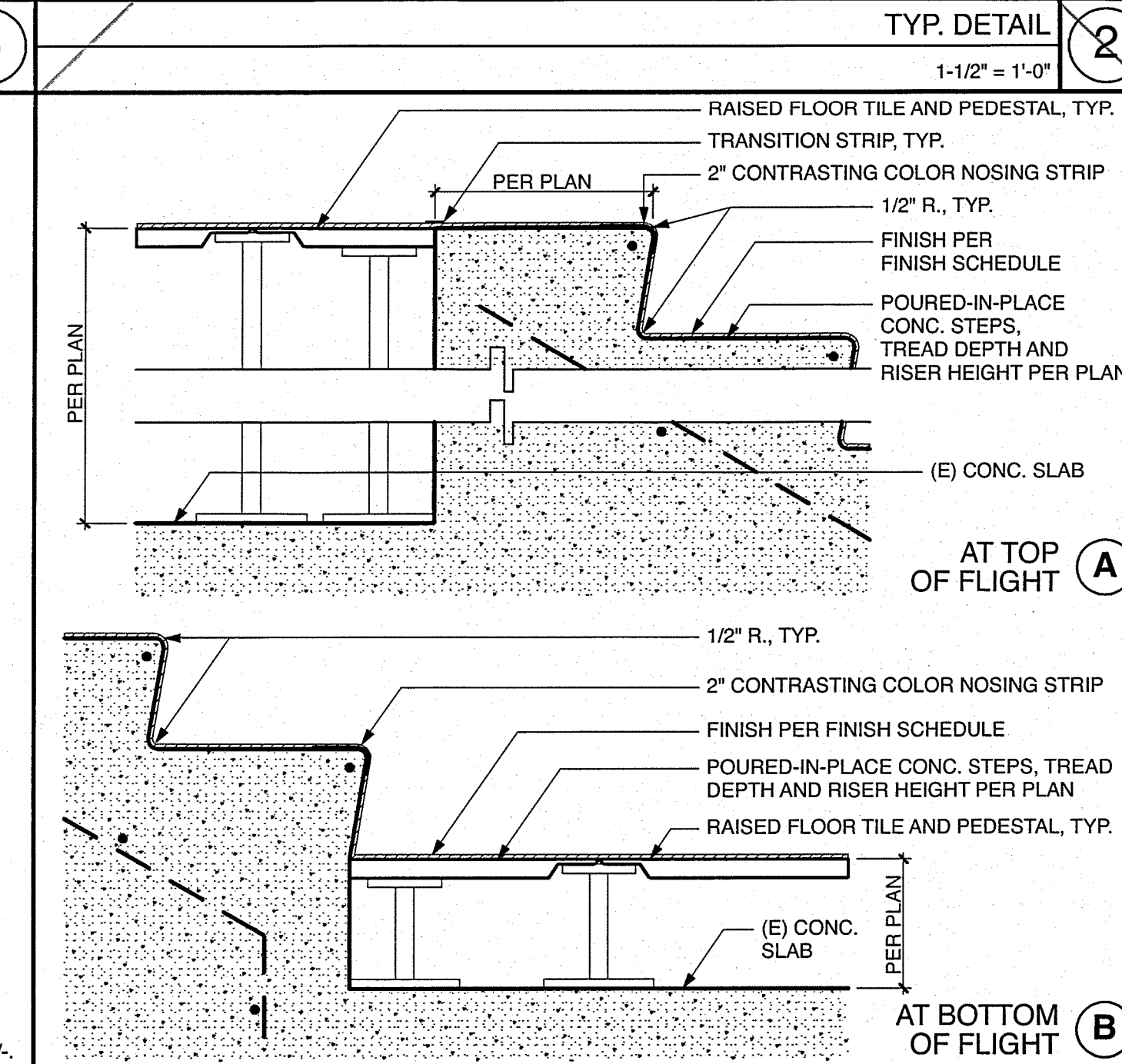
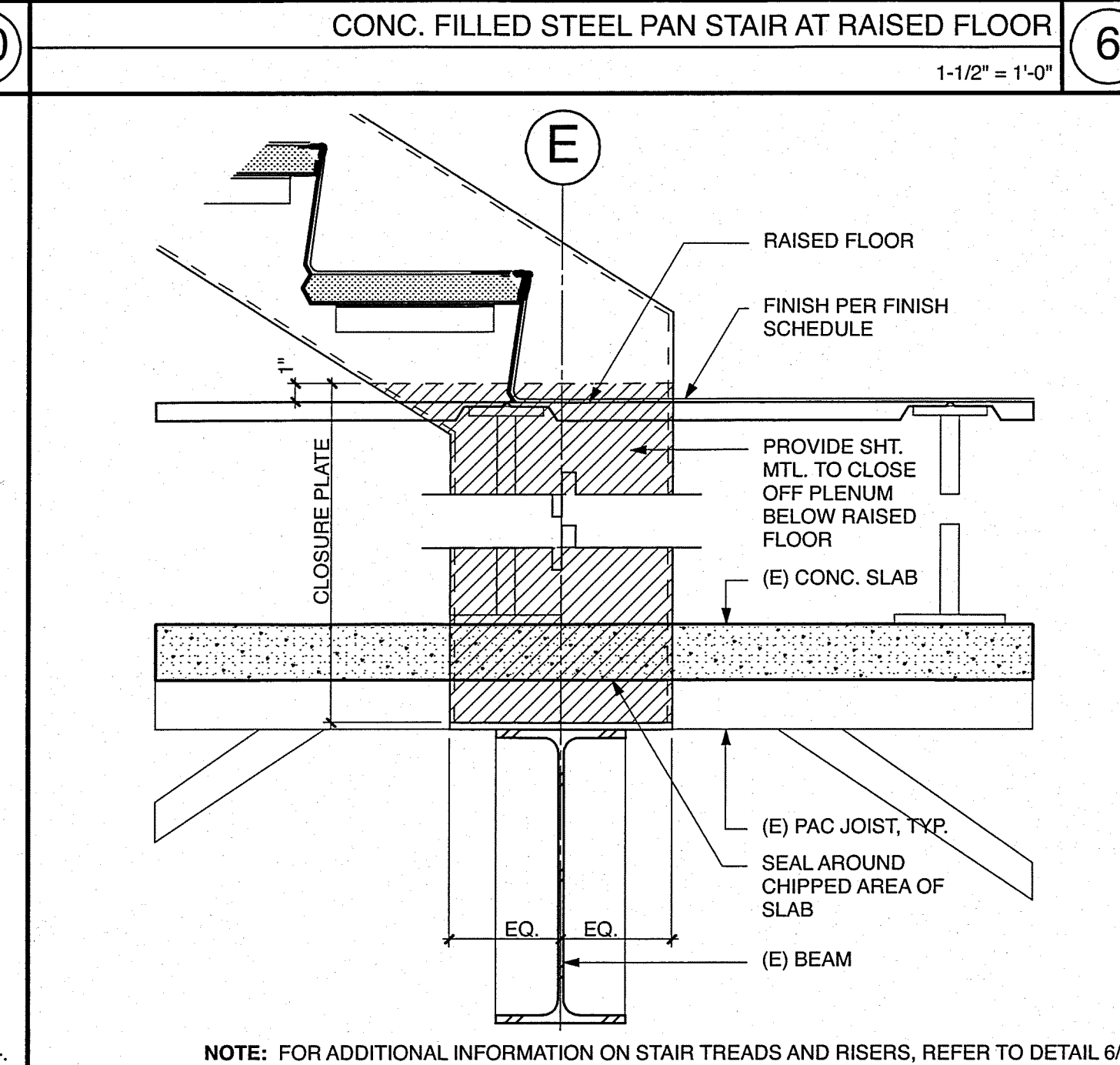
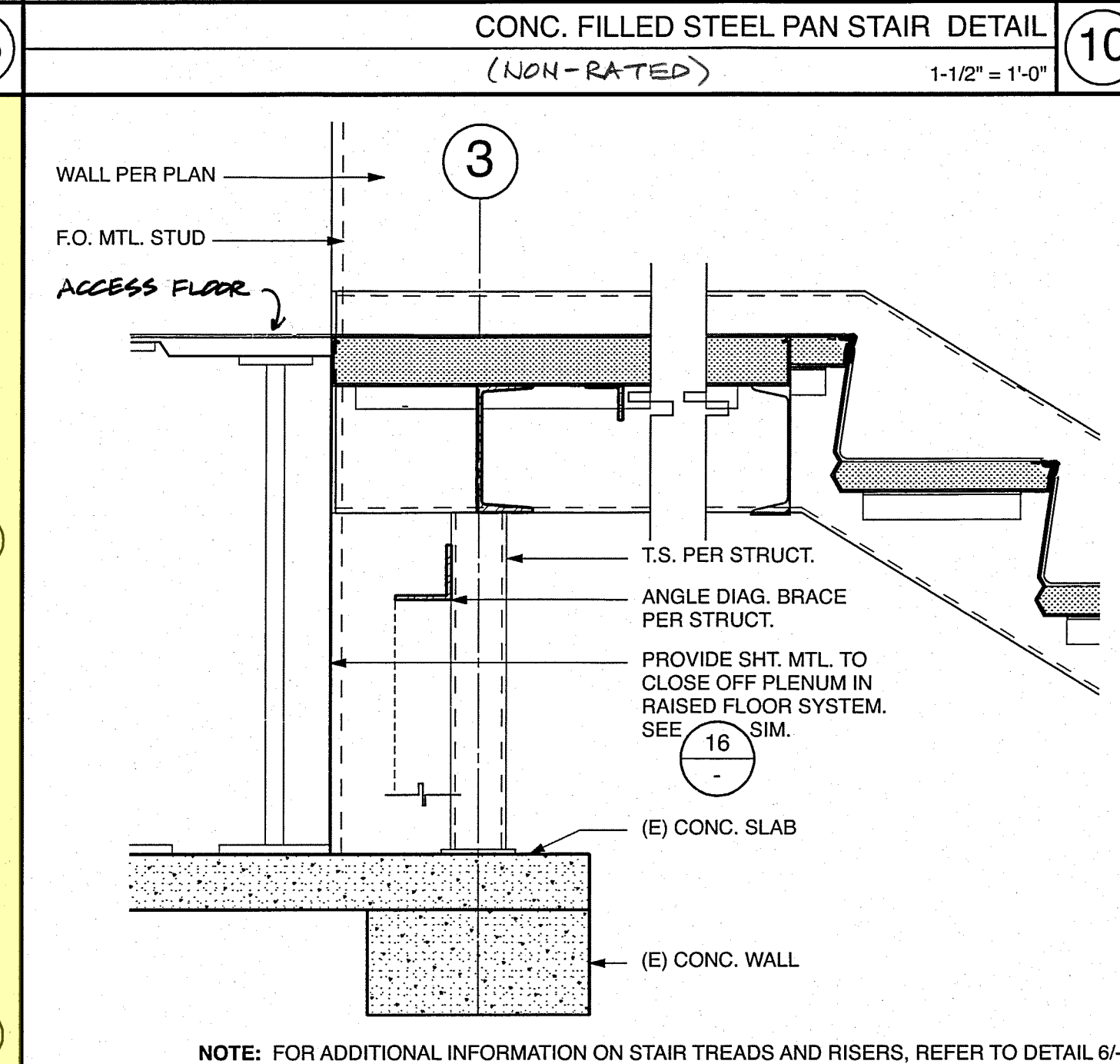
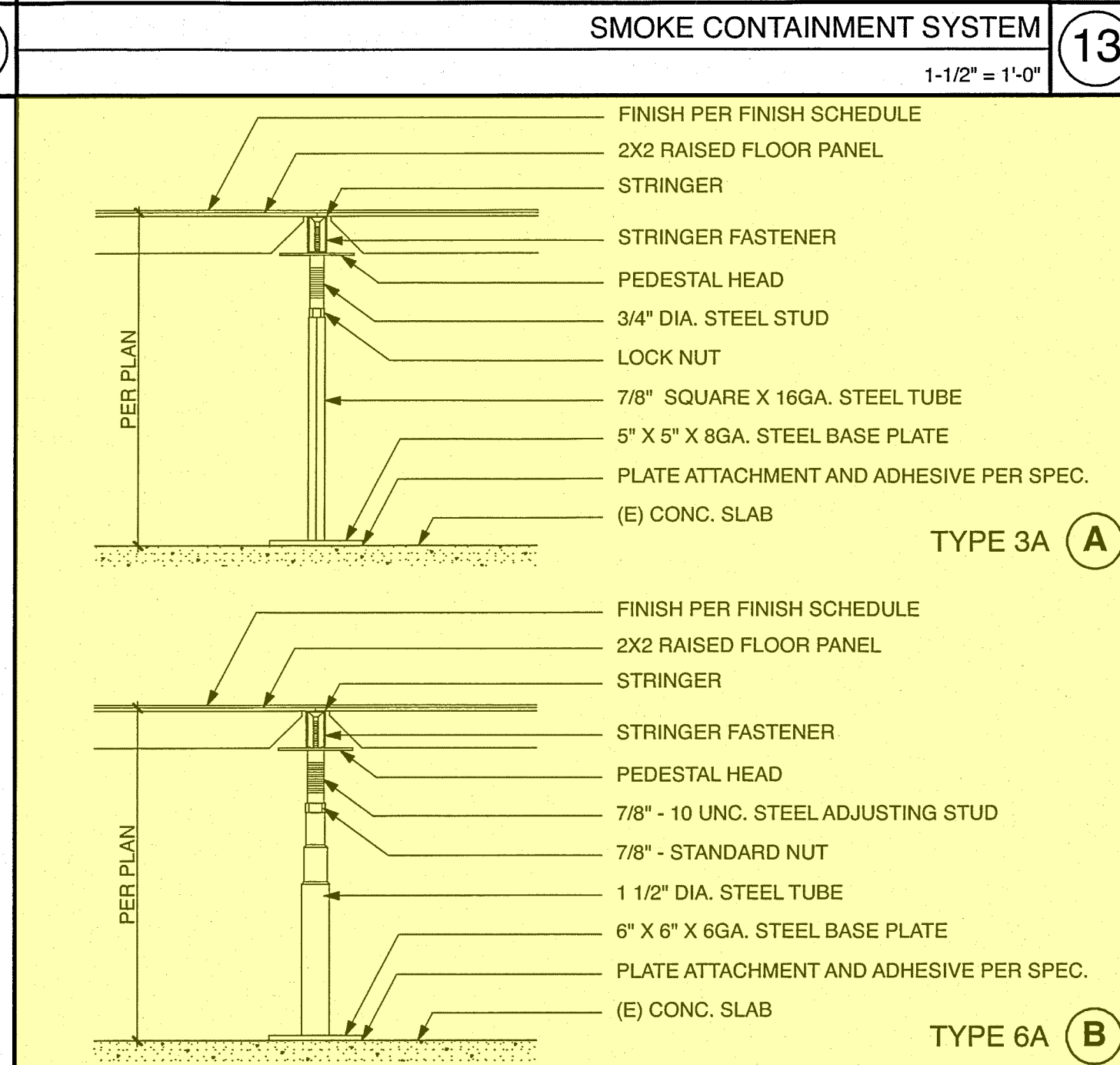
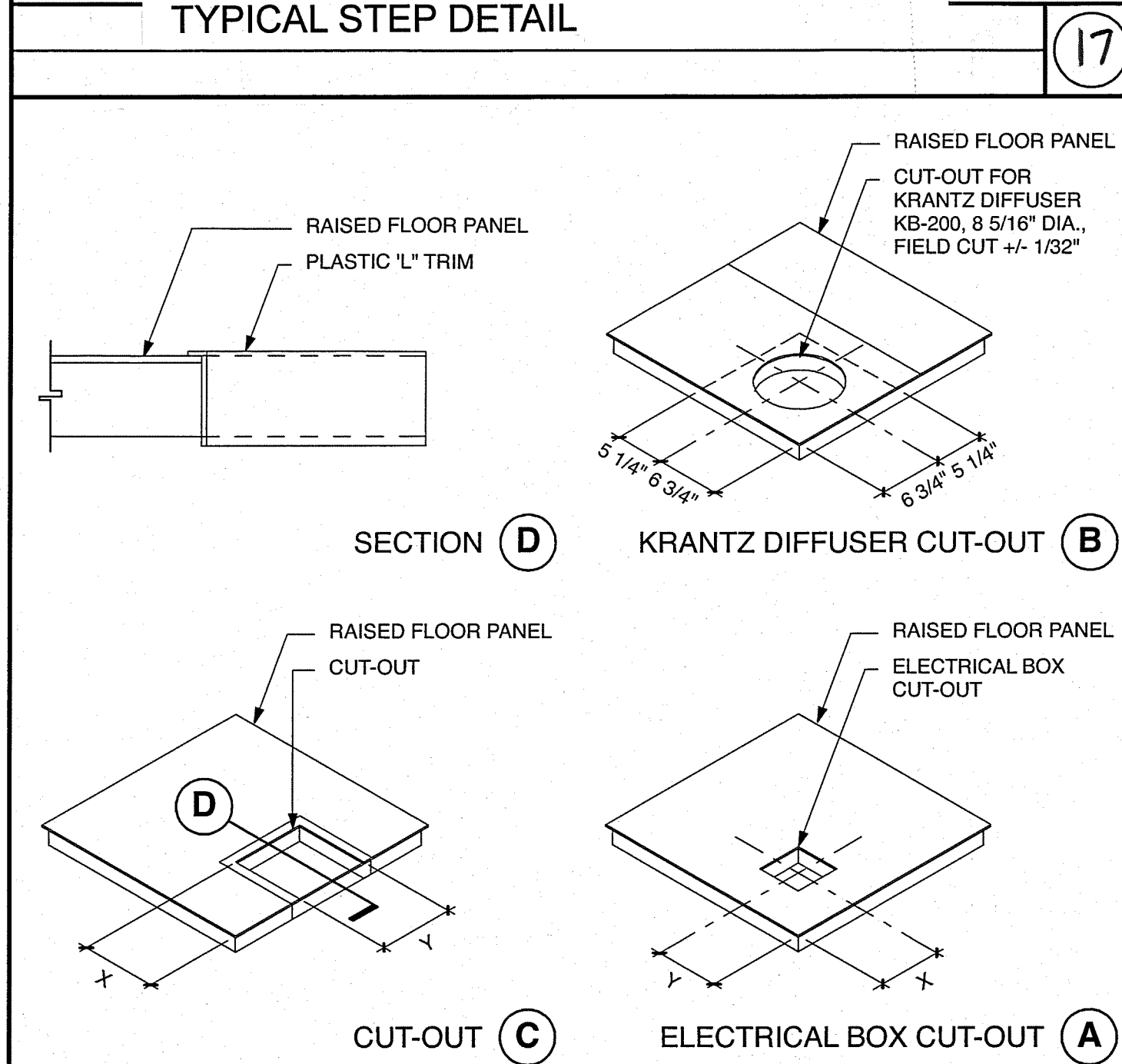
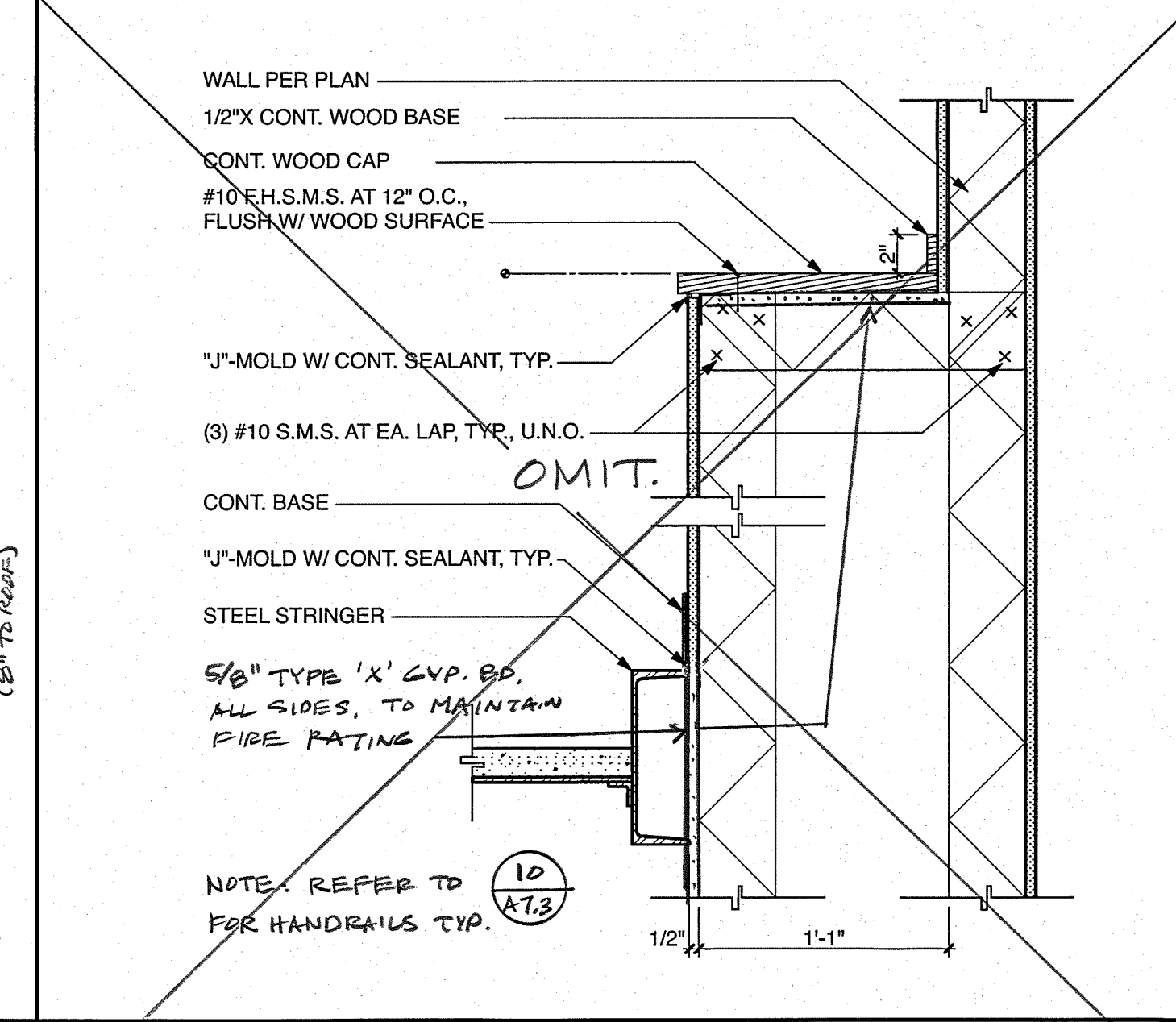
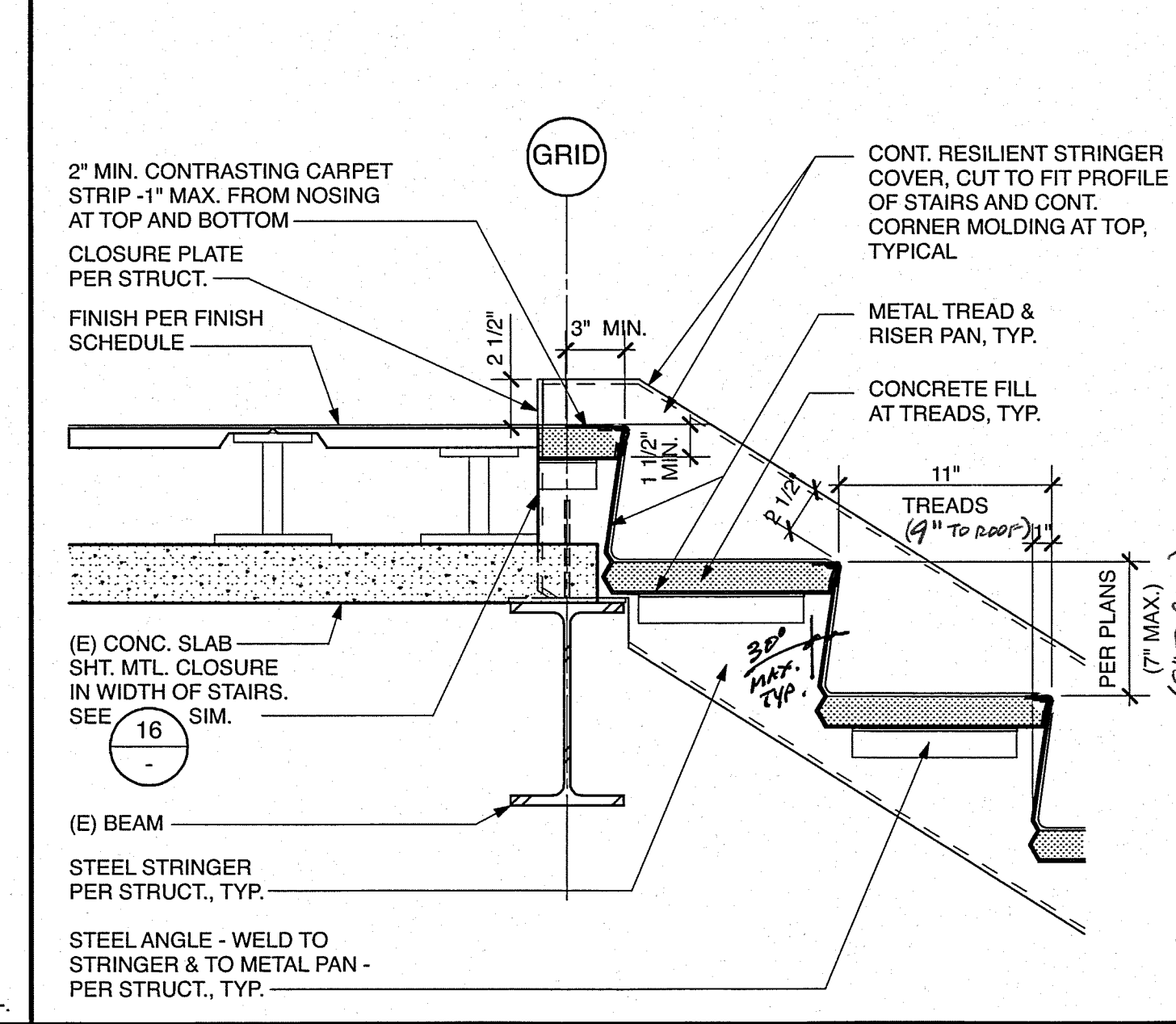
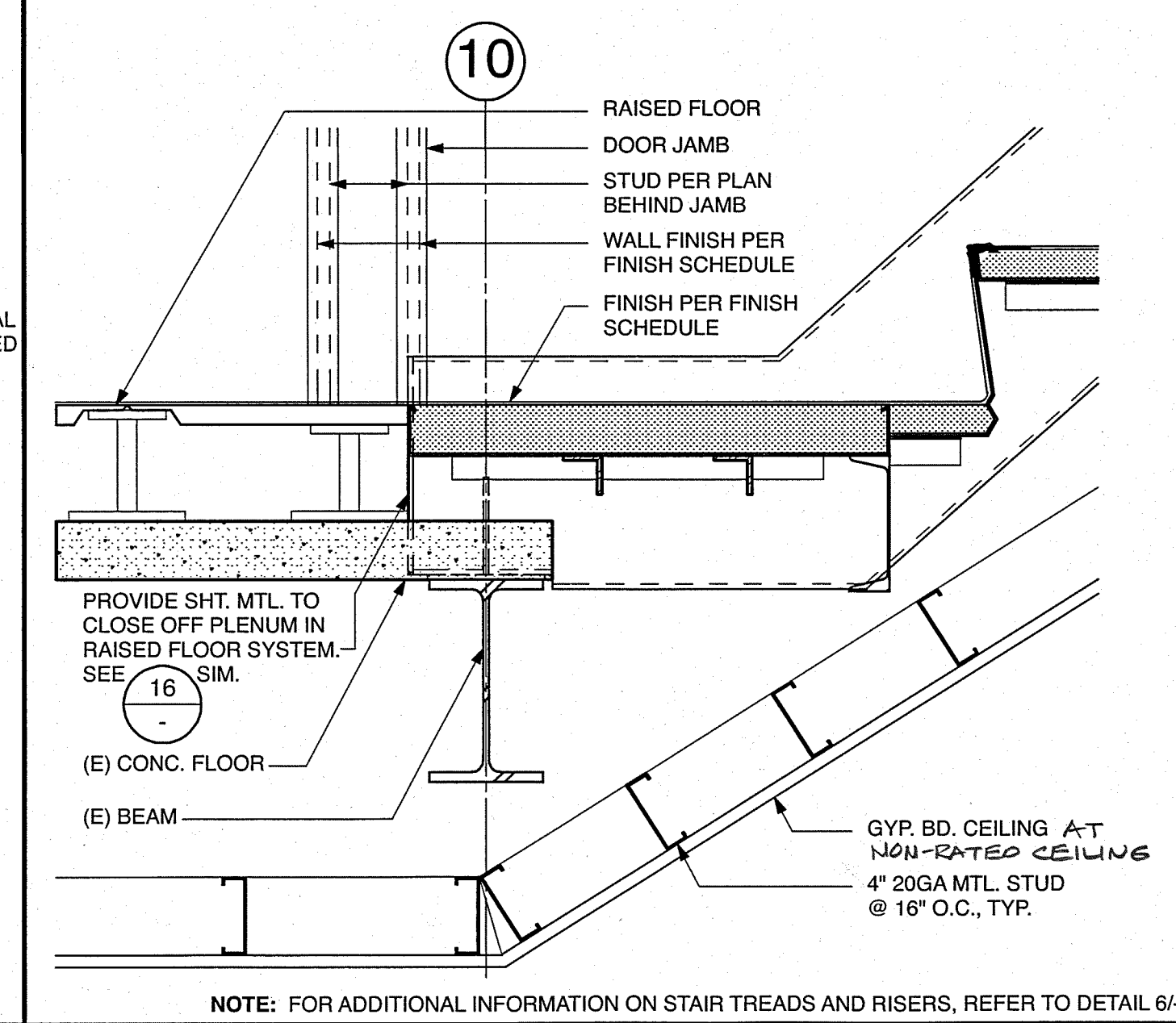
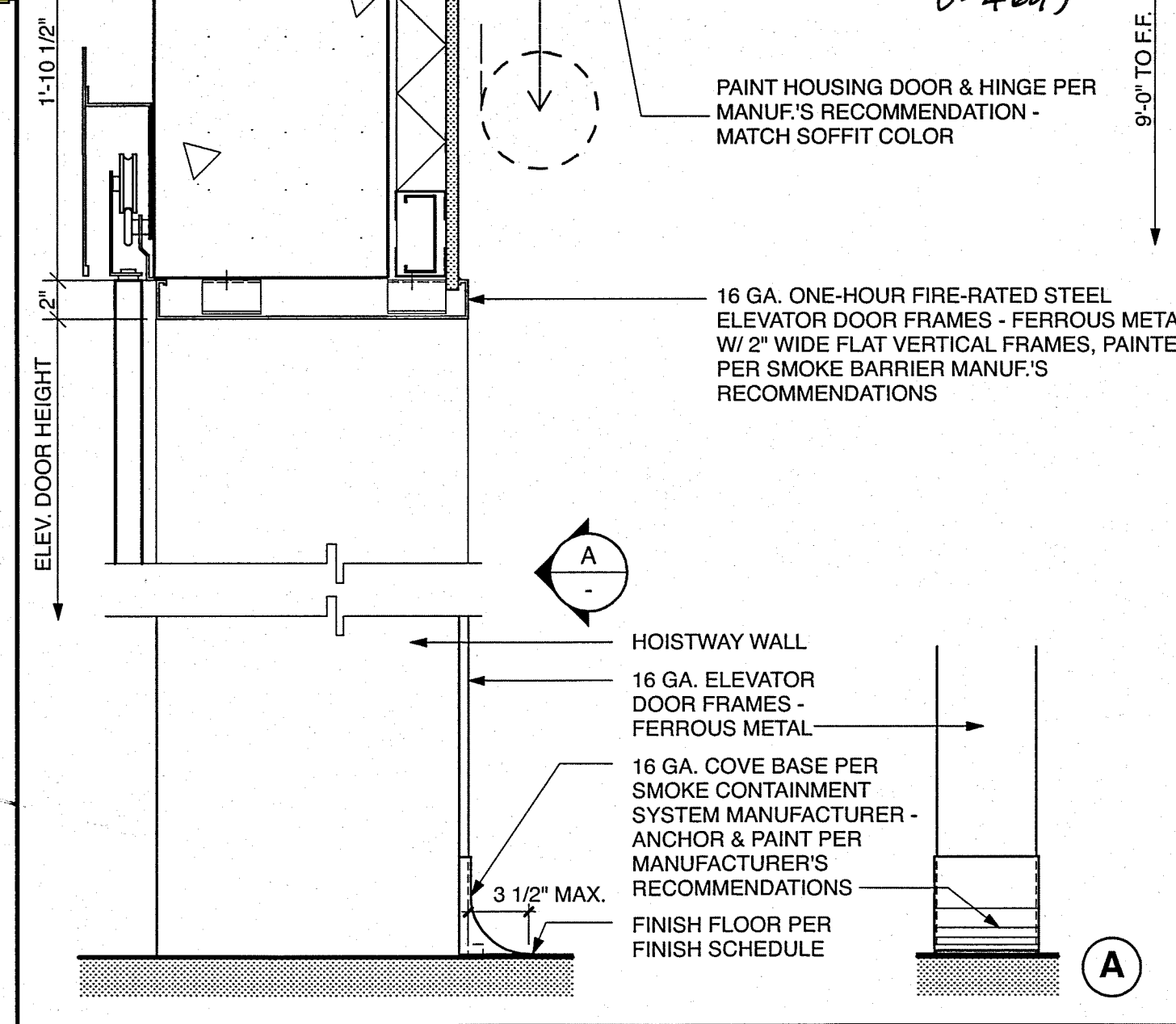
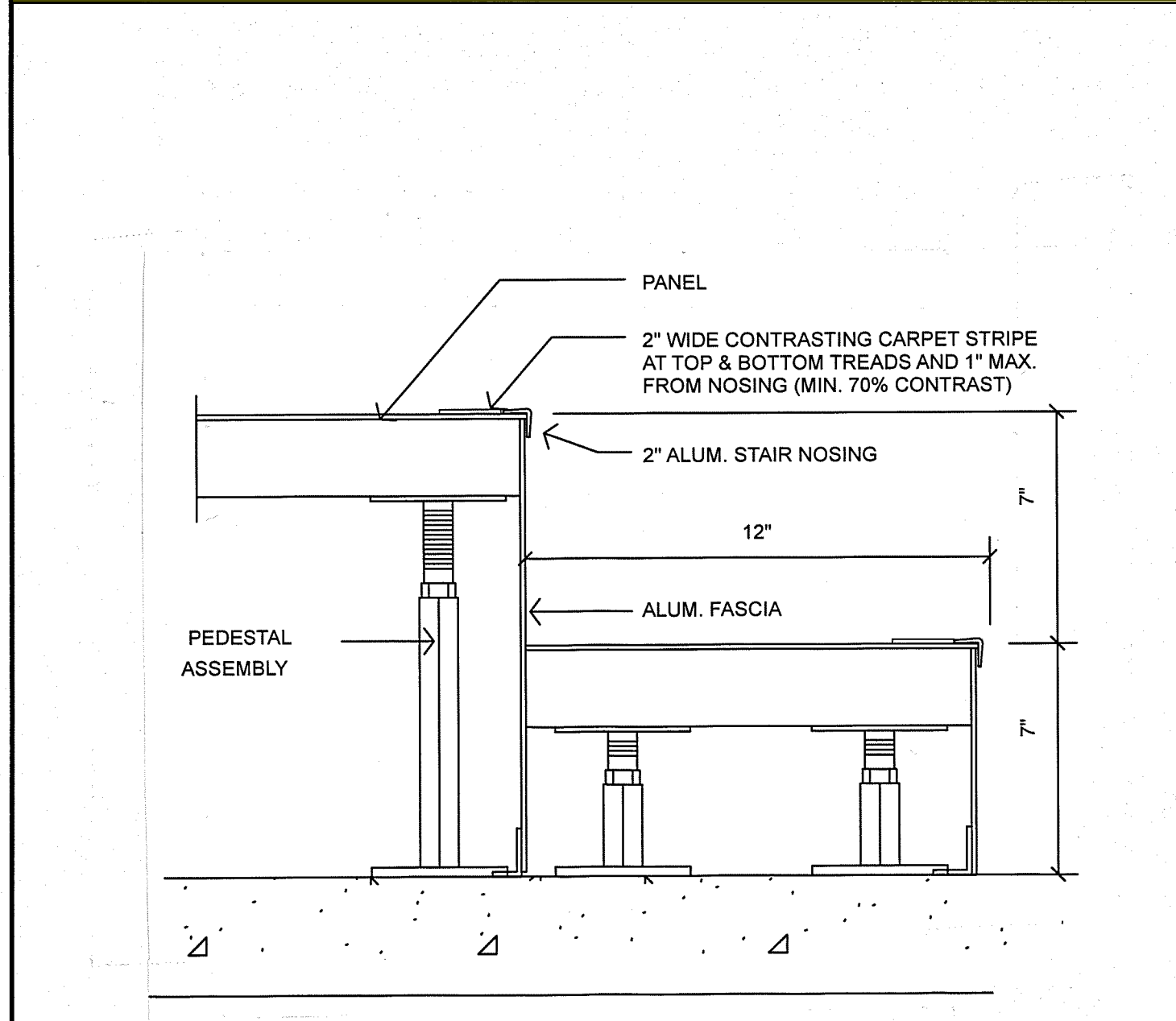
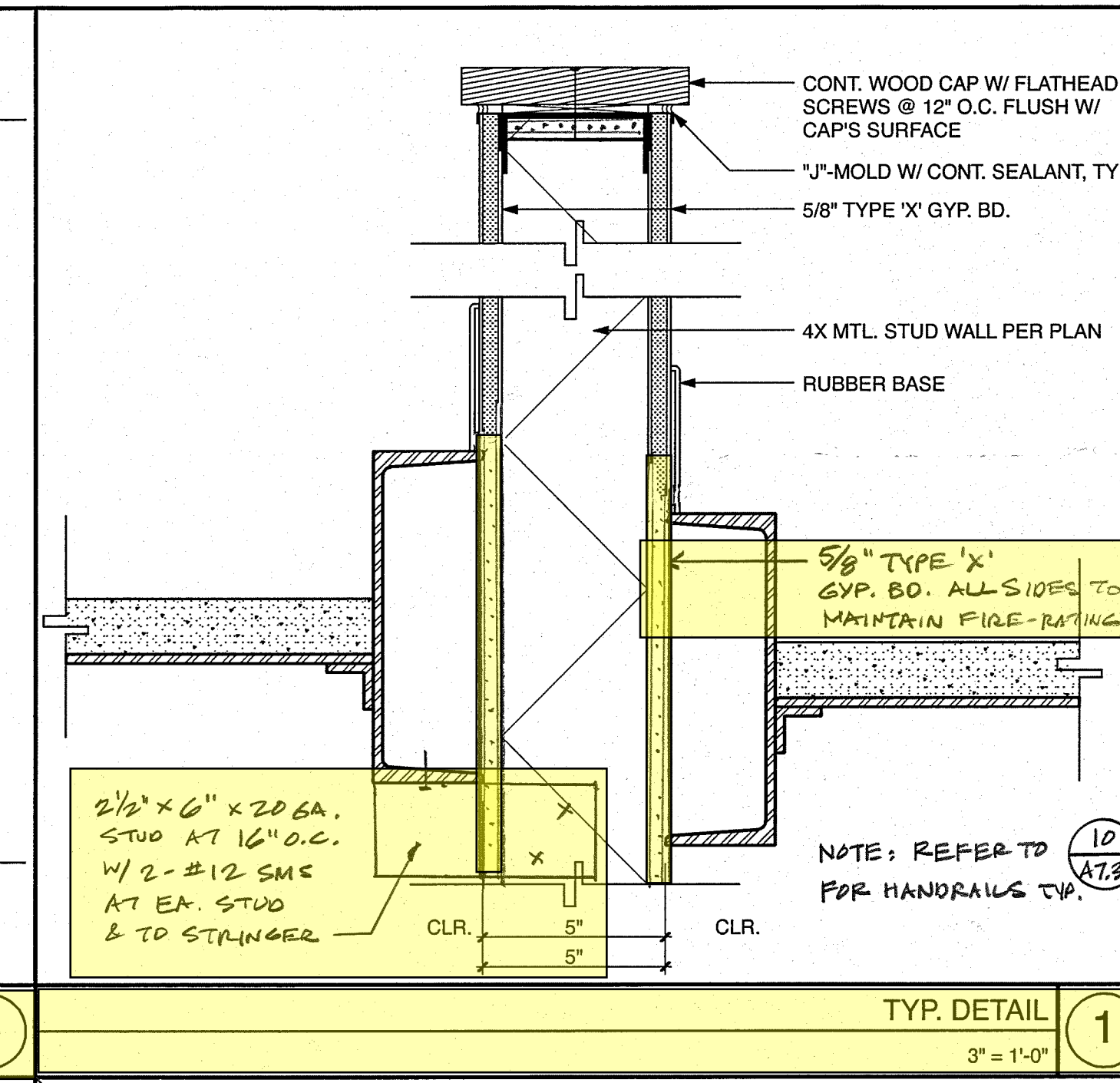
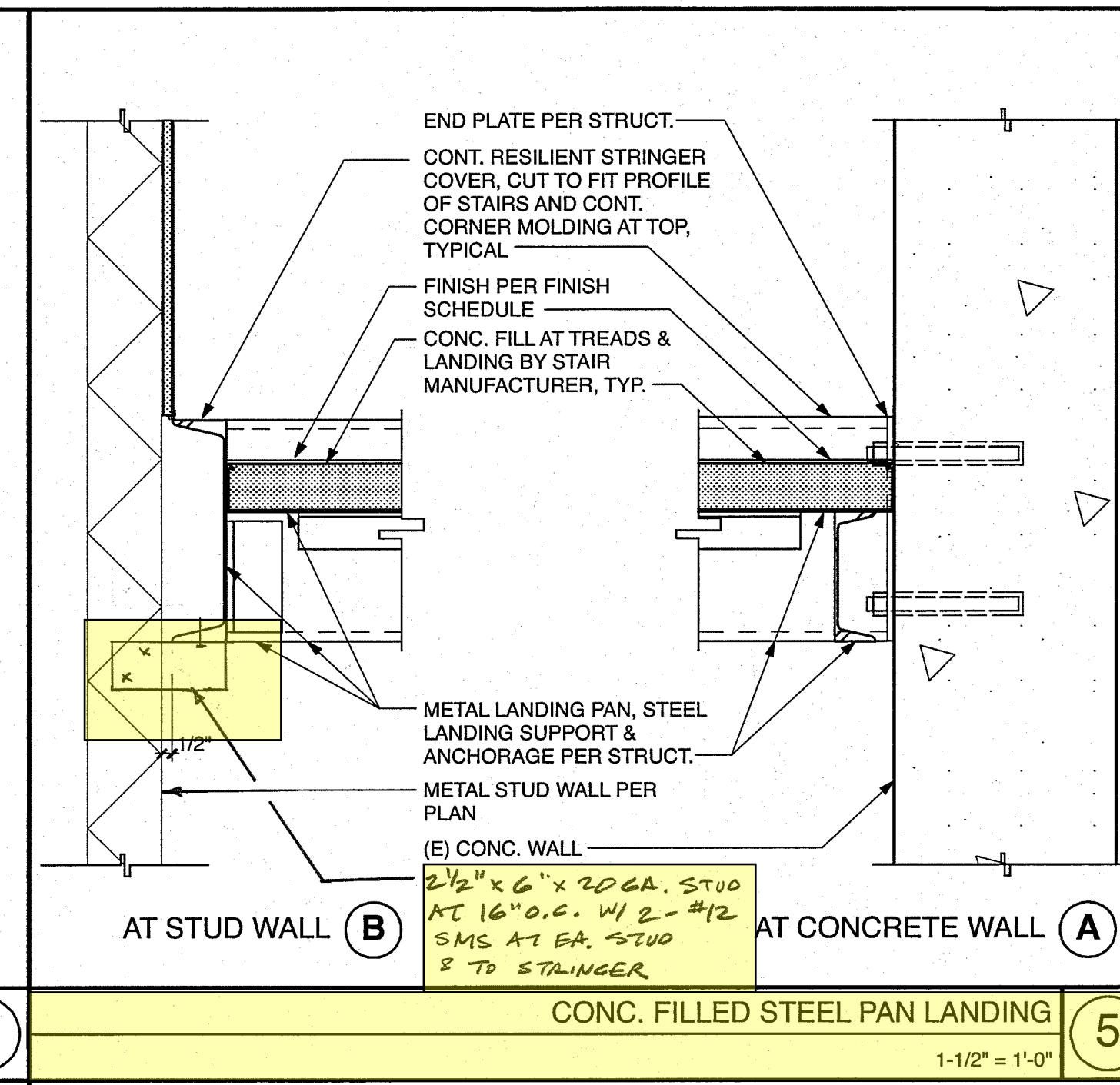
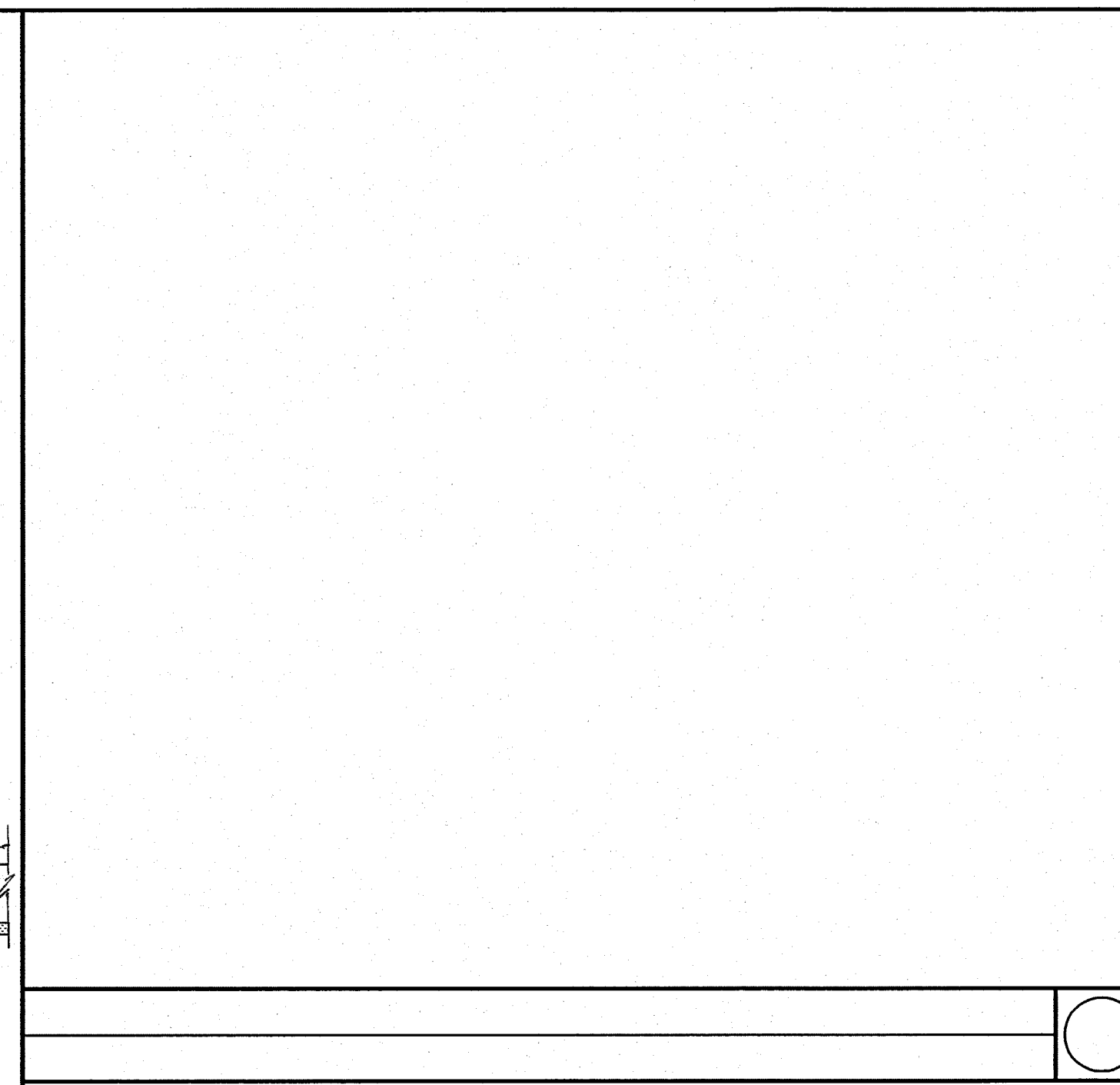
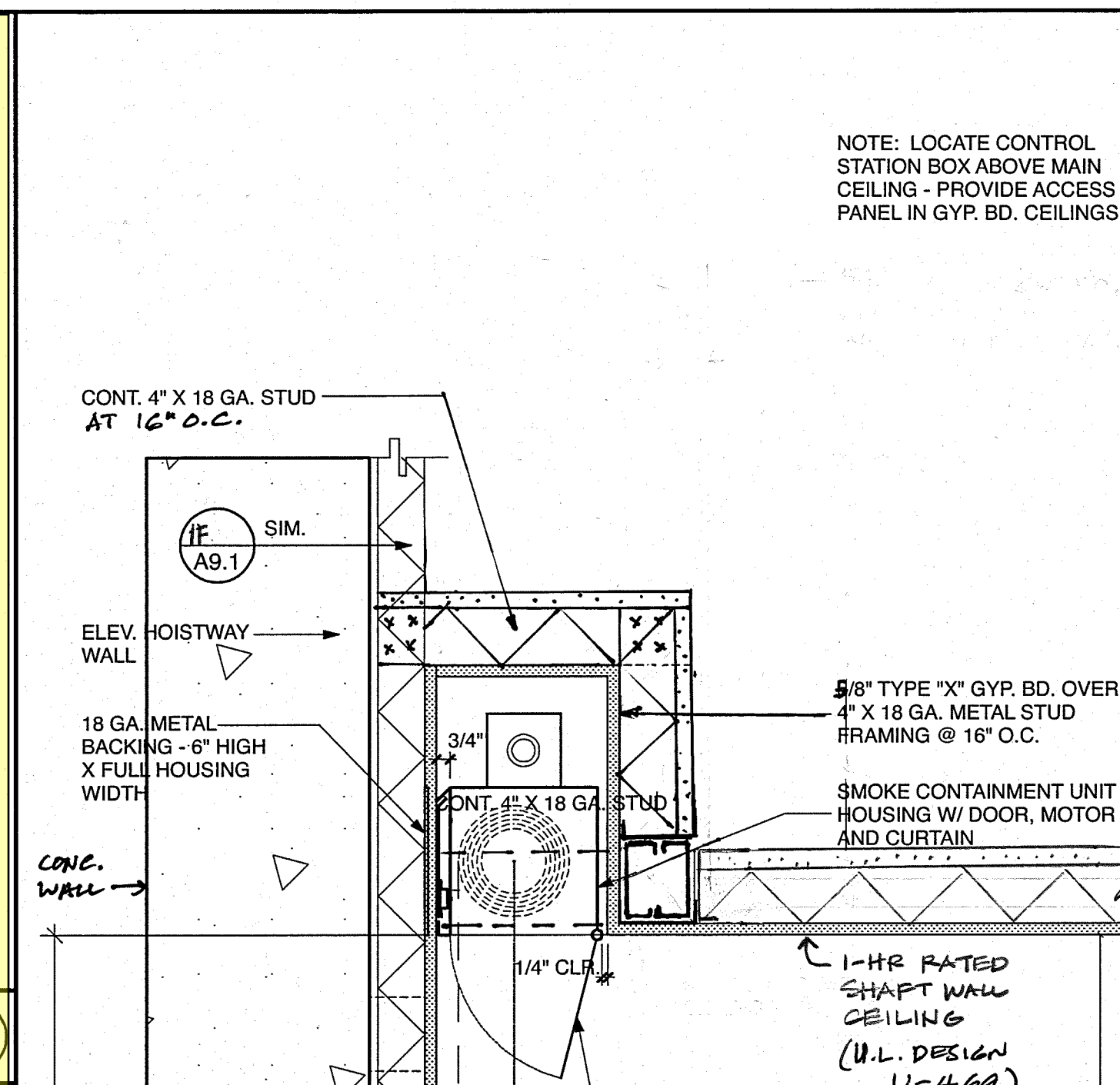
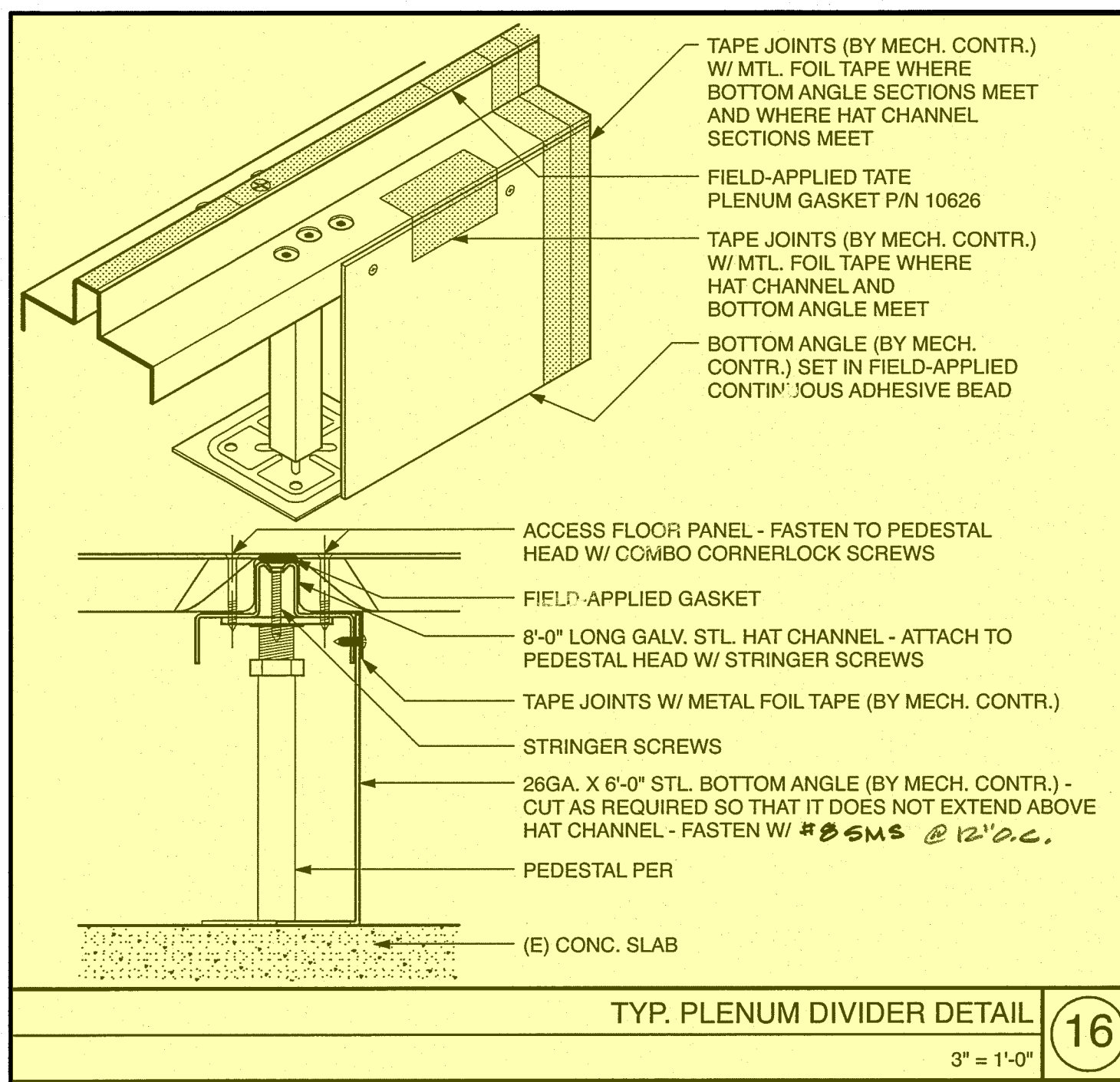
CONSULTANT

**CLAYPOOL BUILDING RECONSTRUCTION**  
**PALO VERDE COLLEGE, NEEDLES CENTER**  
 PALO VERDE COMMUNITY COLLEGE DISTRICT  
 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92369

DATE: 07-06-07  
 JOB NO.: 2007-SH95-00  
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 CHECKED BY: [Signature]

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CONSULTANT

NO.	DATE	REVISIONS

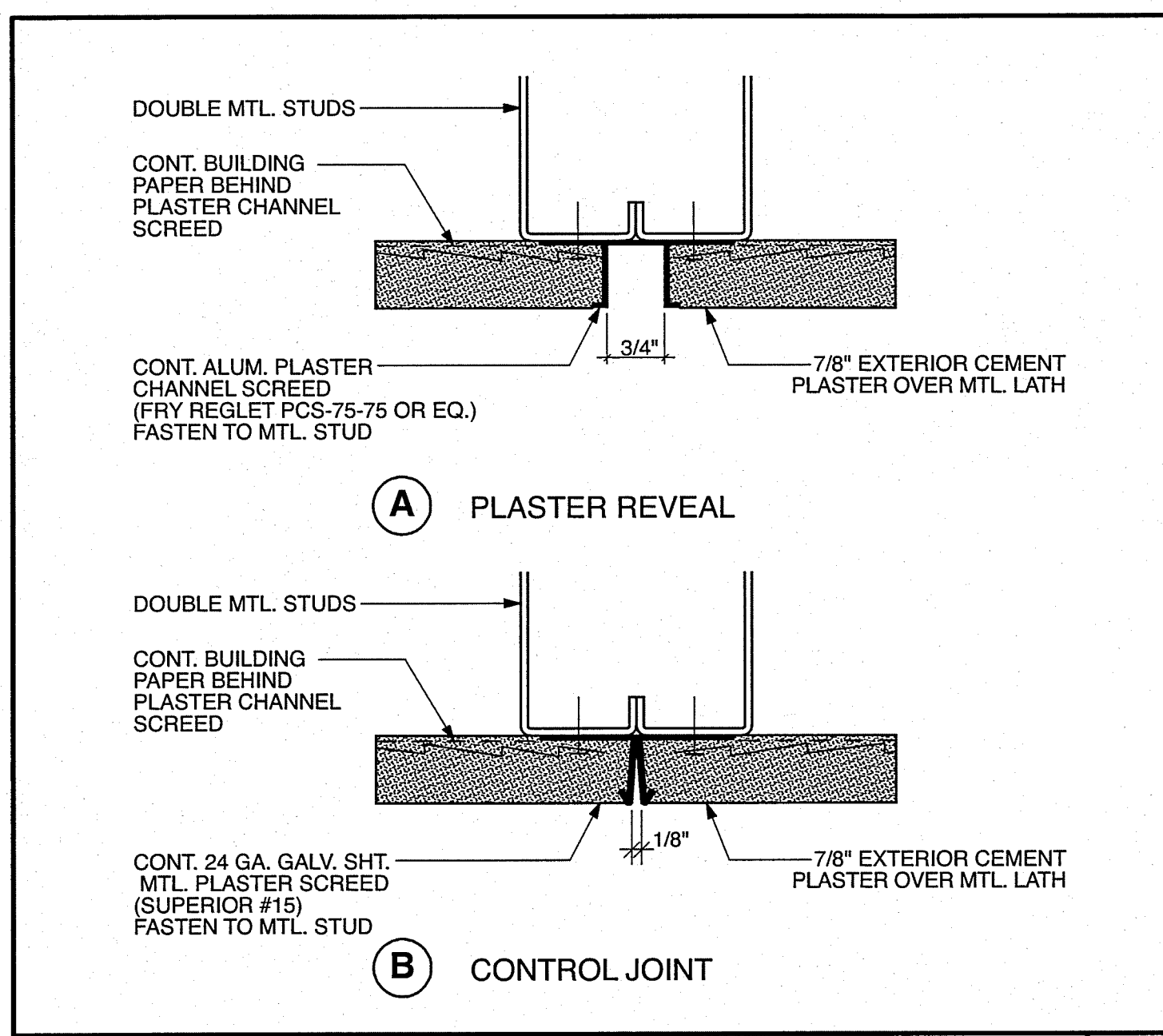
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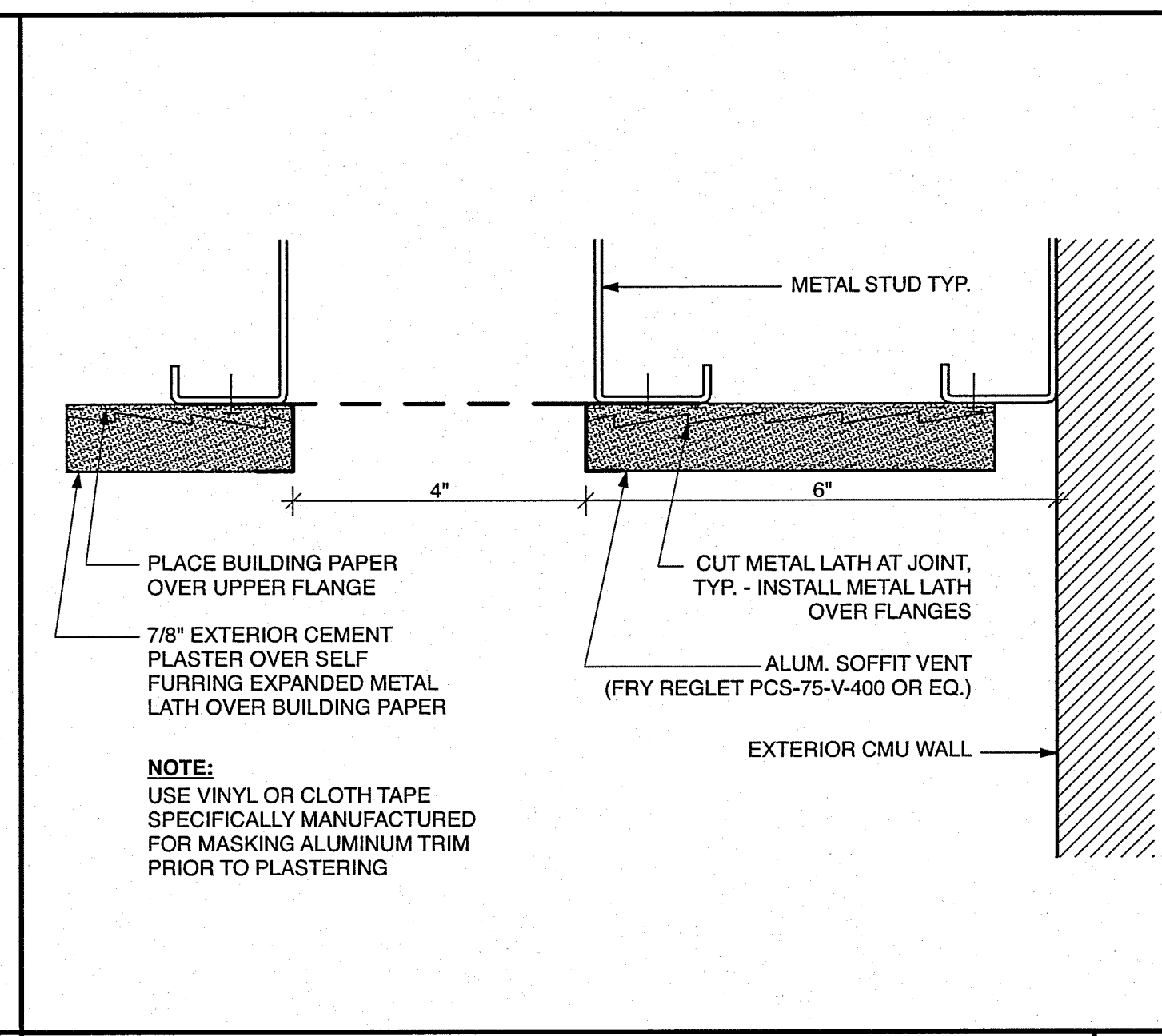
**CLAYPOOL BUILDING RECONSTRUCTION**  
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PALO VERDE COMMUNITY COLLEGE DISTRICT  
725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363

DATE: 07-08-07  
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CHECKED: JVT

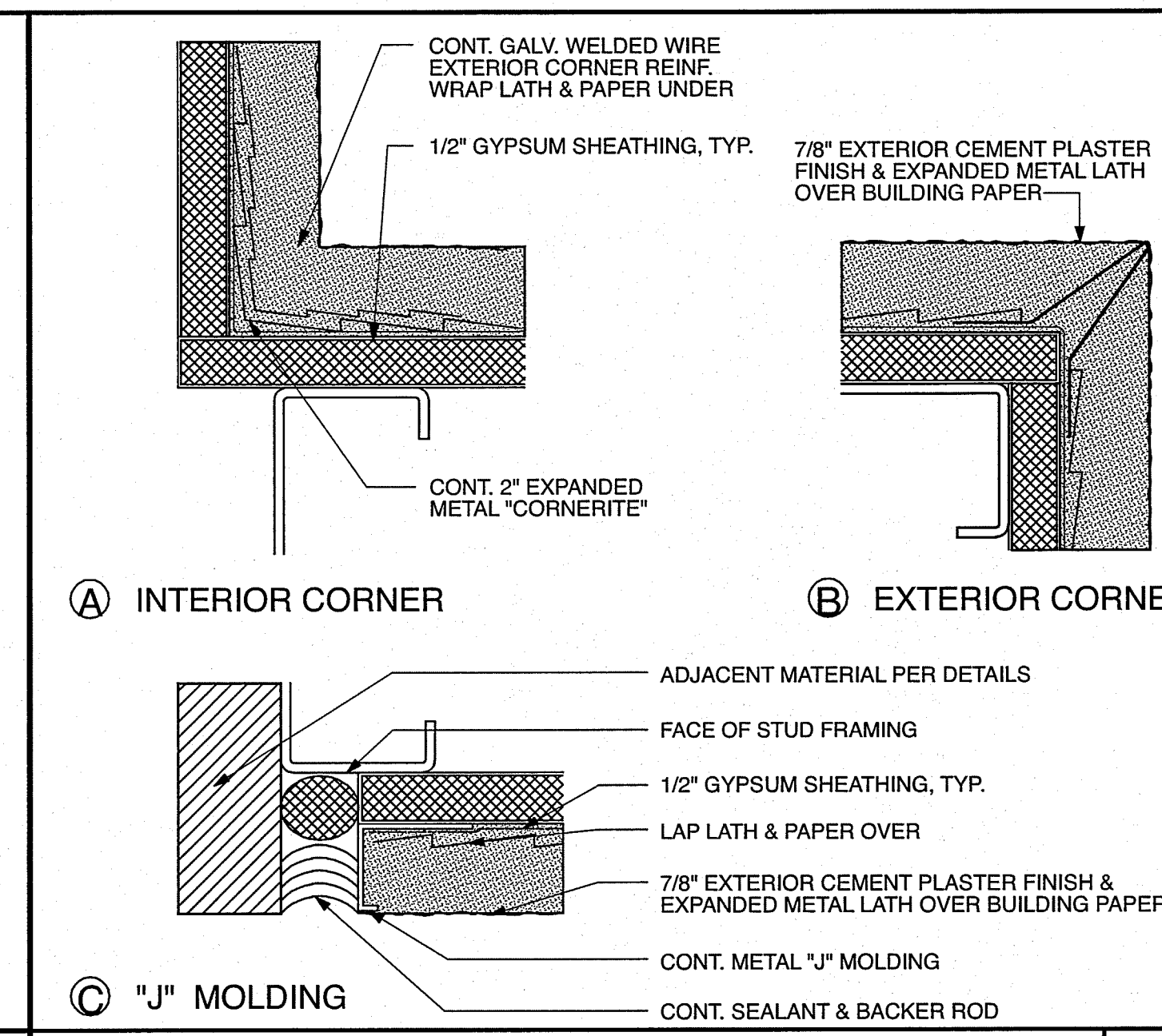
SHEET NO. **A7.4** OF 11



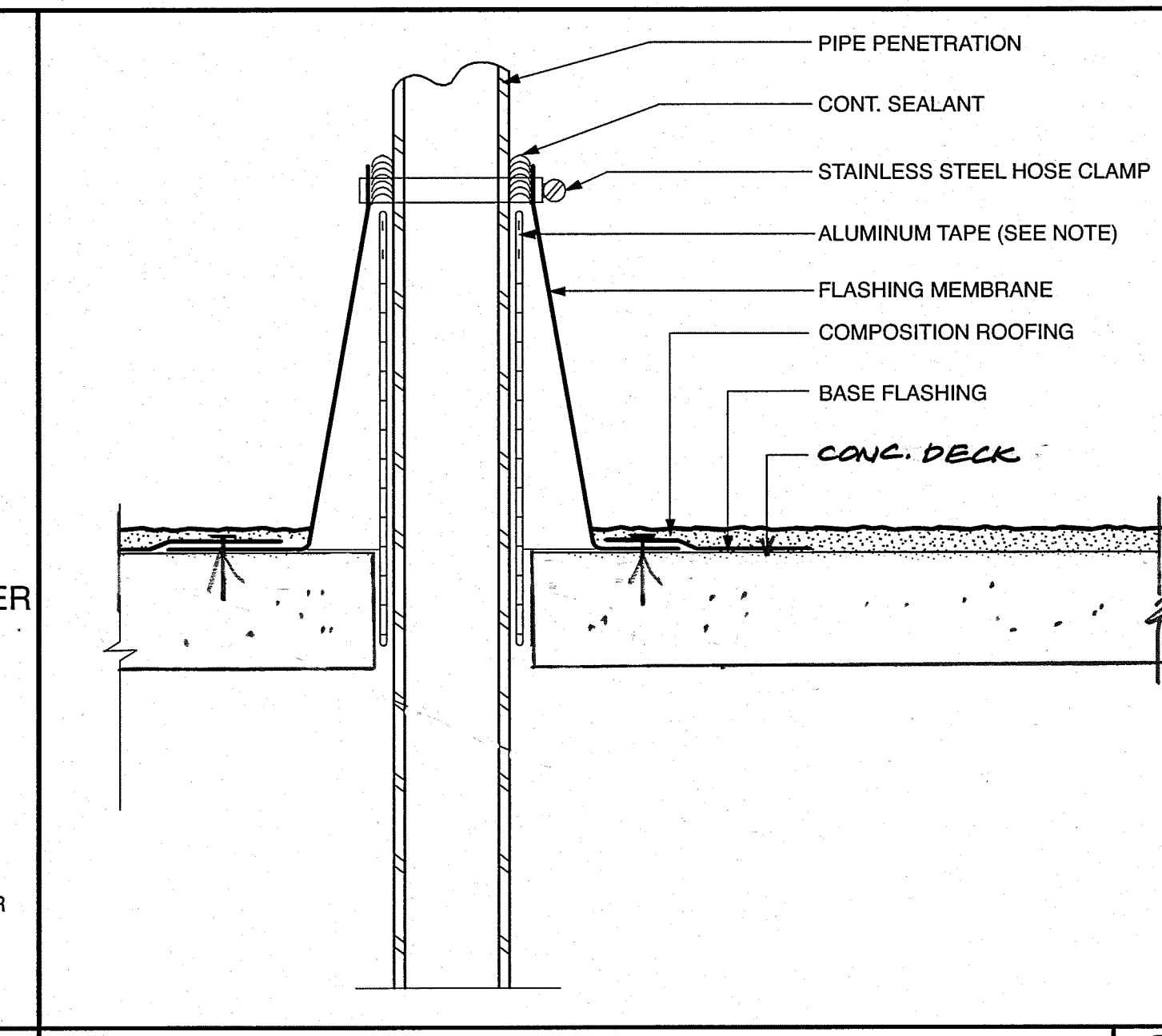
TYP. PLASTER REVEAL & CONTROL JOINT  
HALF SIZE **17**



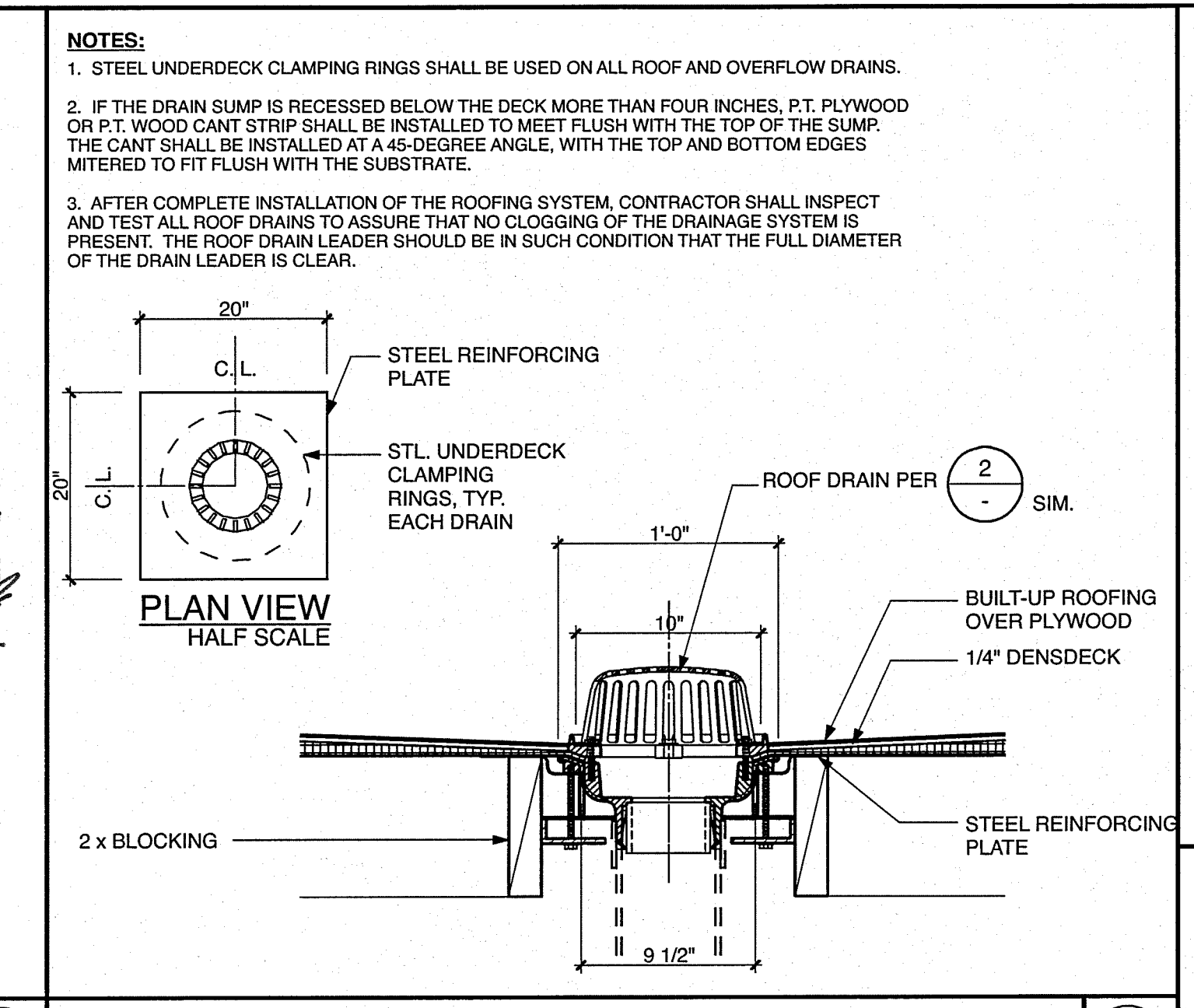
EXTERIOR CEMENT PLASTER SOFFIT VENT  
HALF SIZE **13**



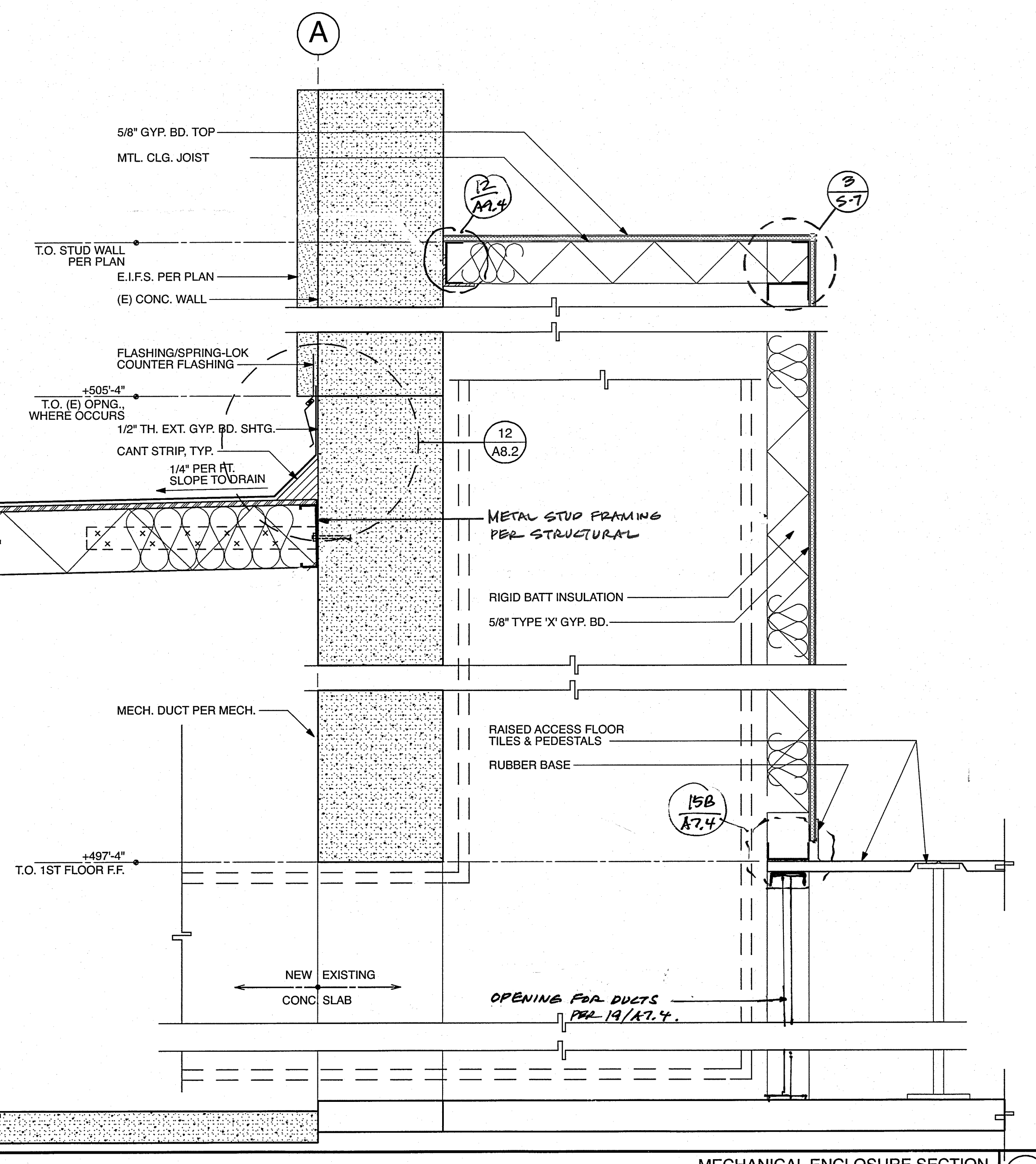
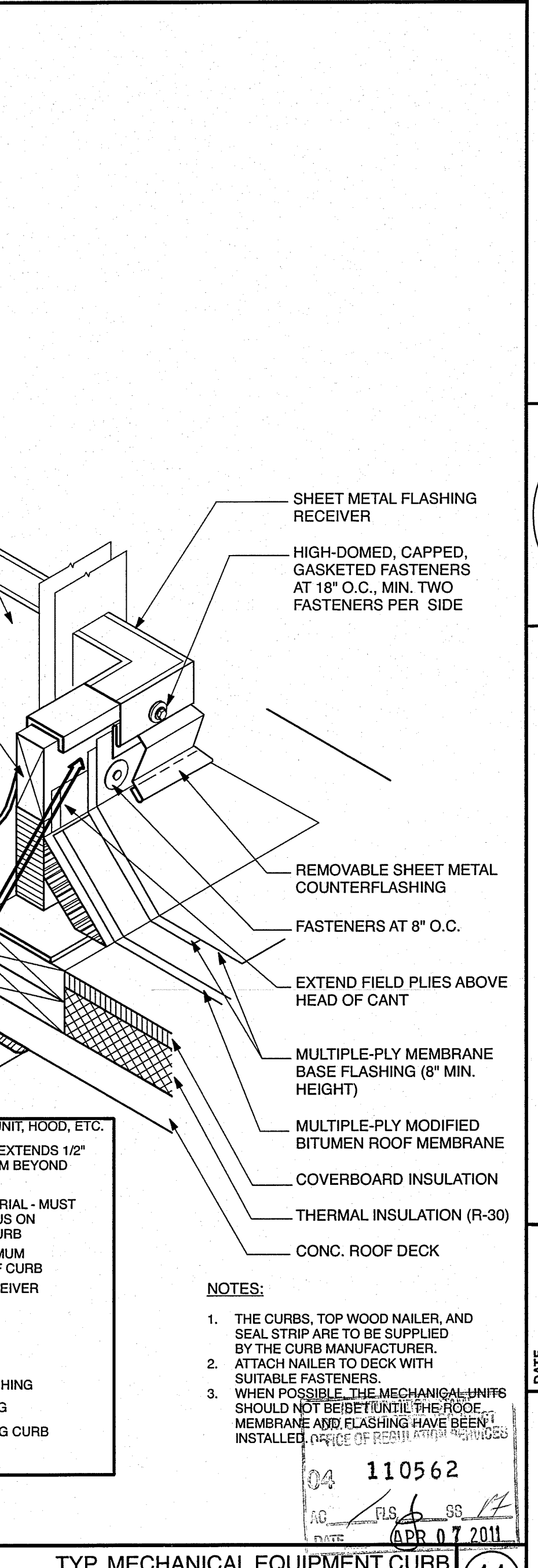
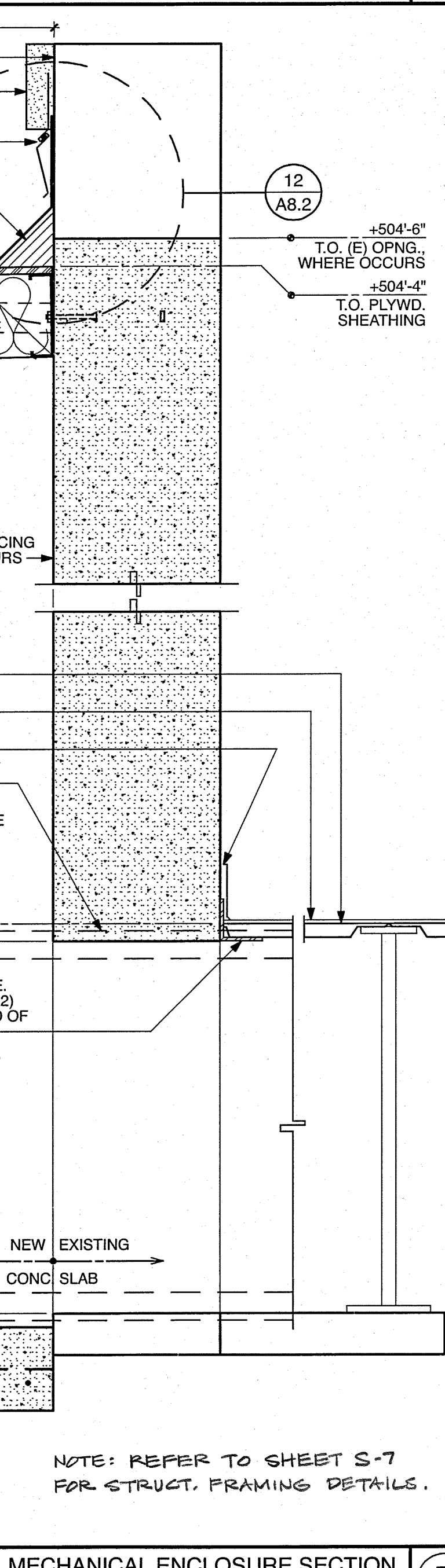
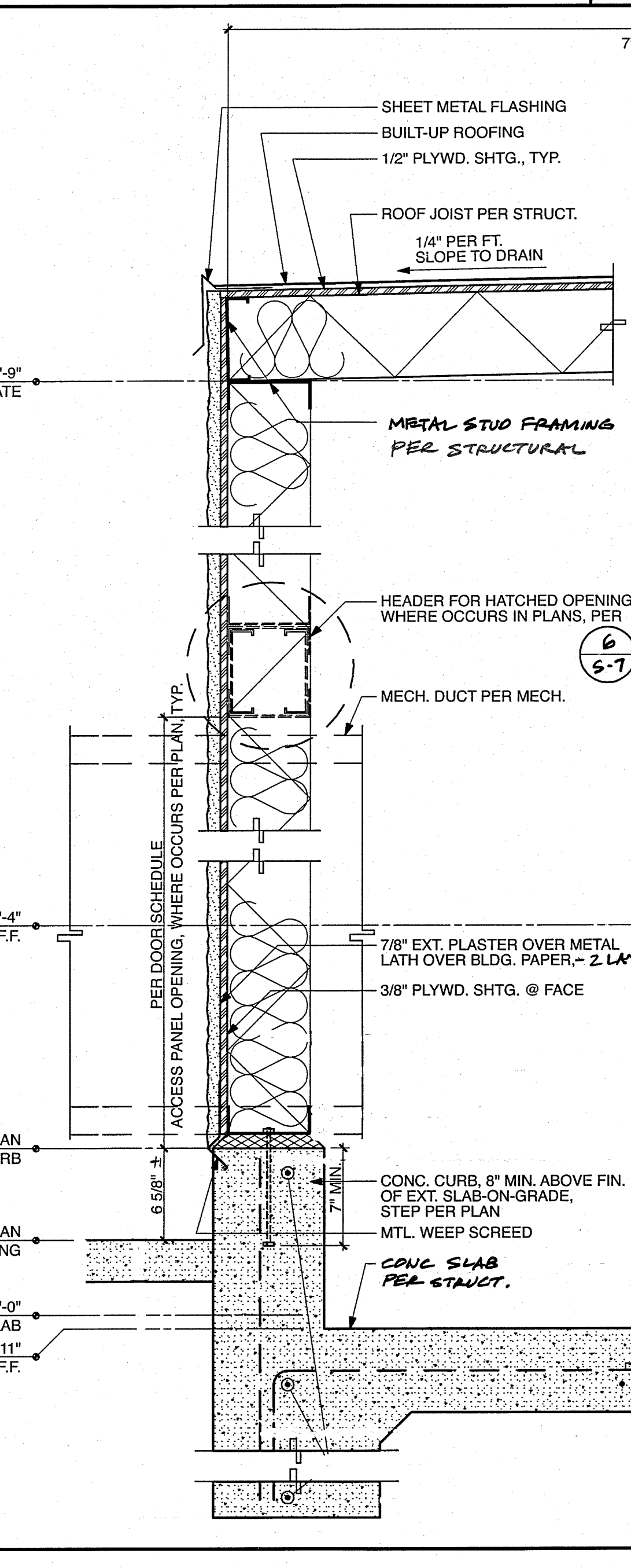
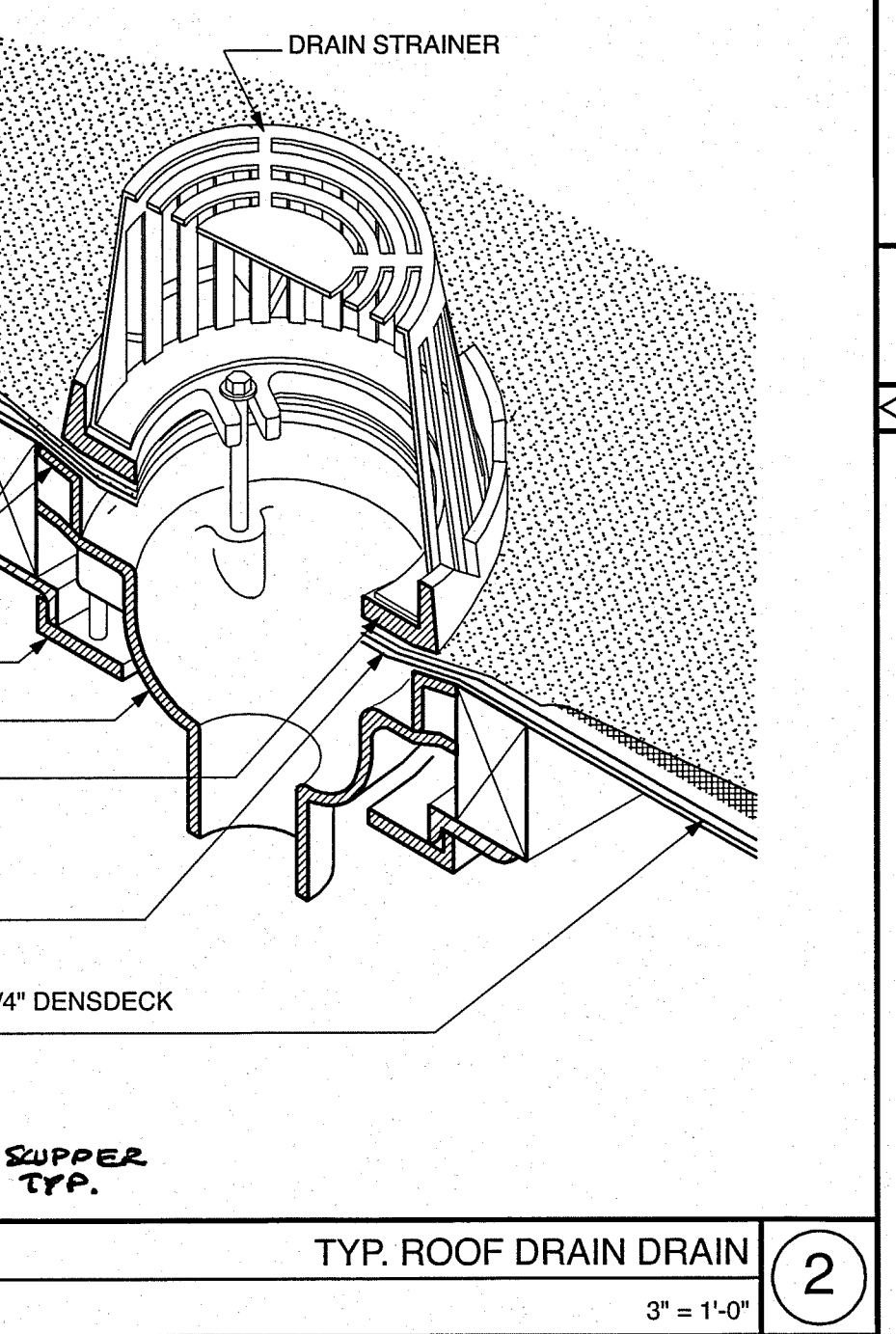
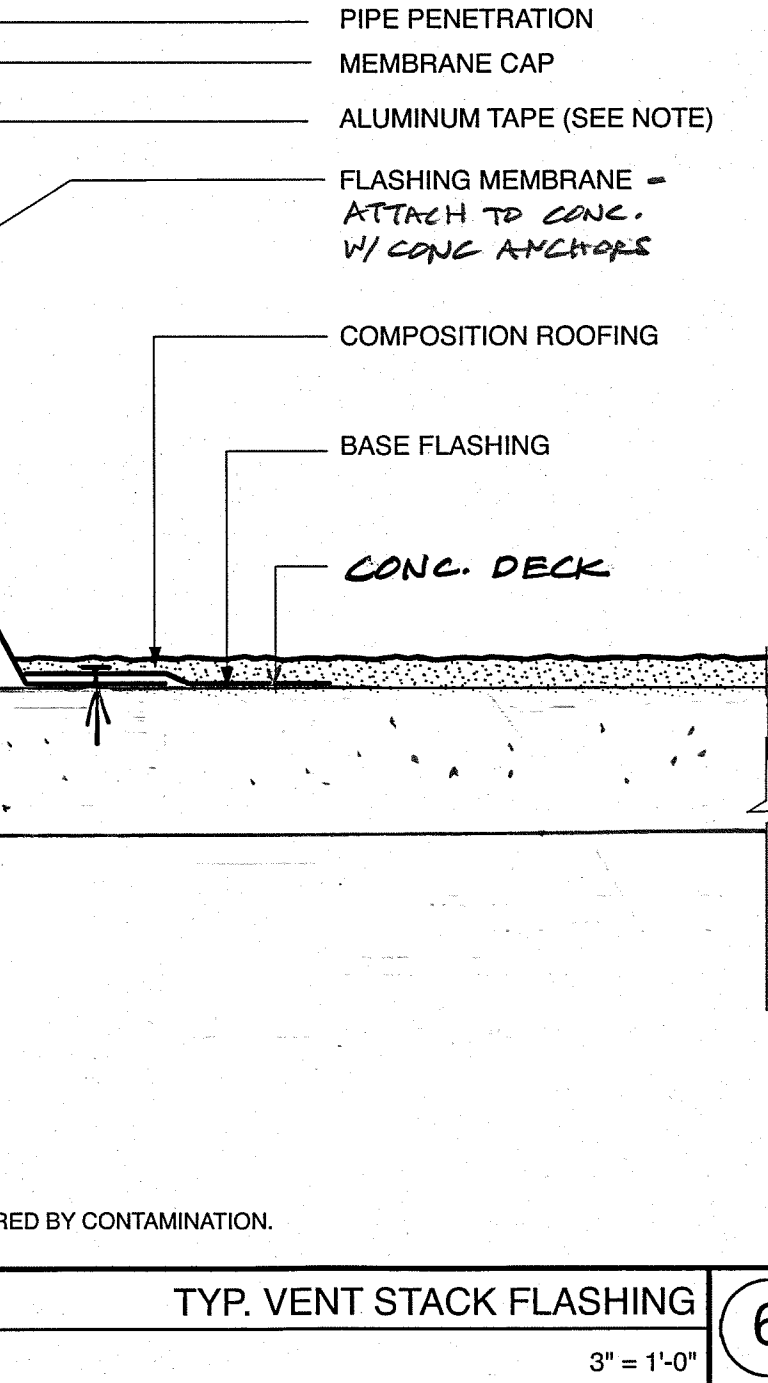
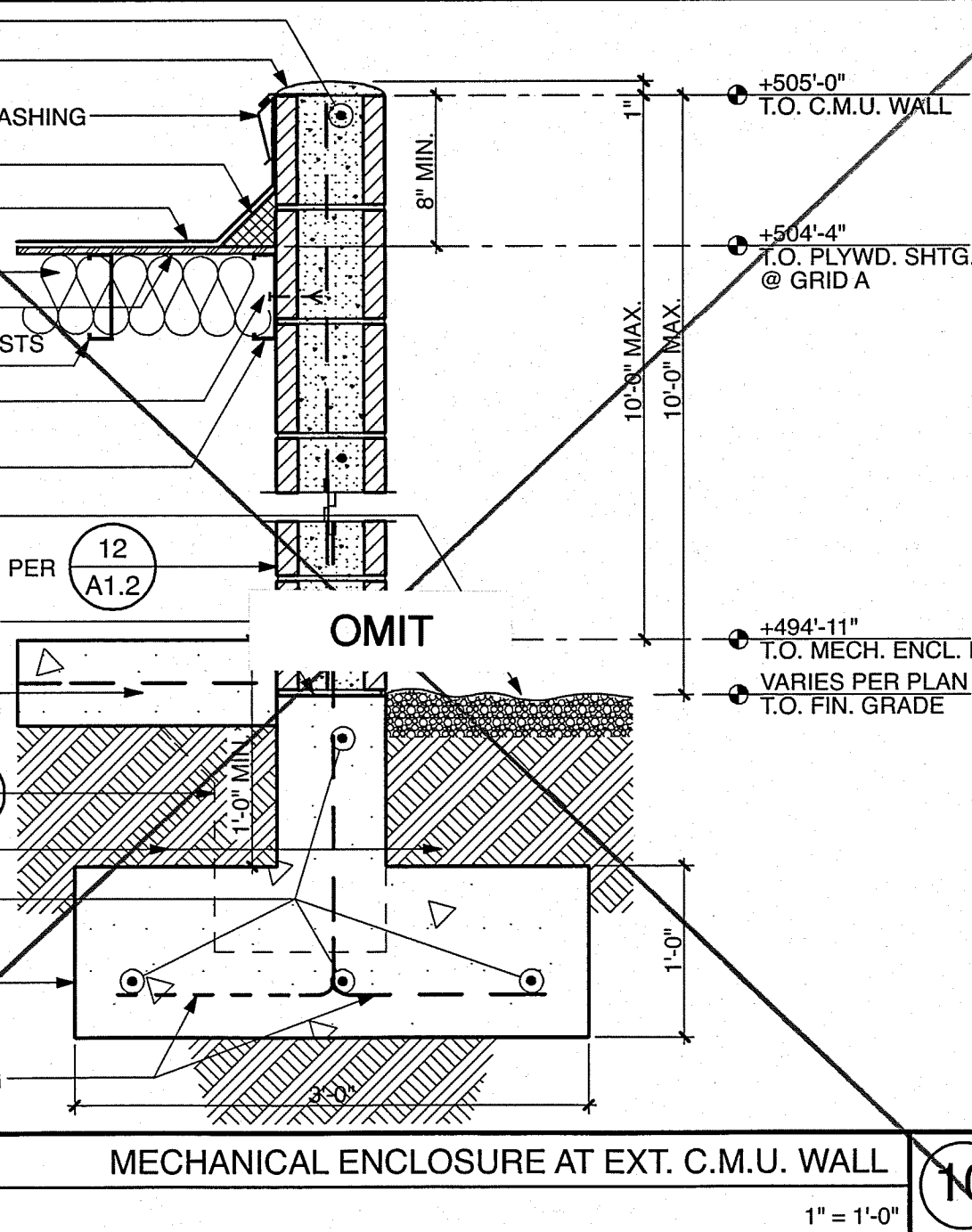
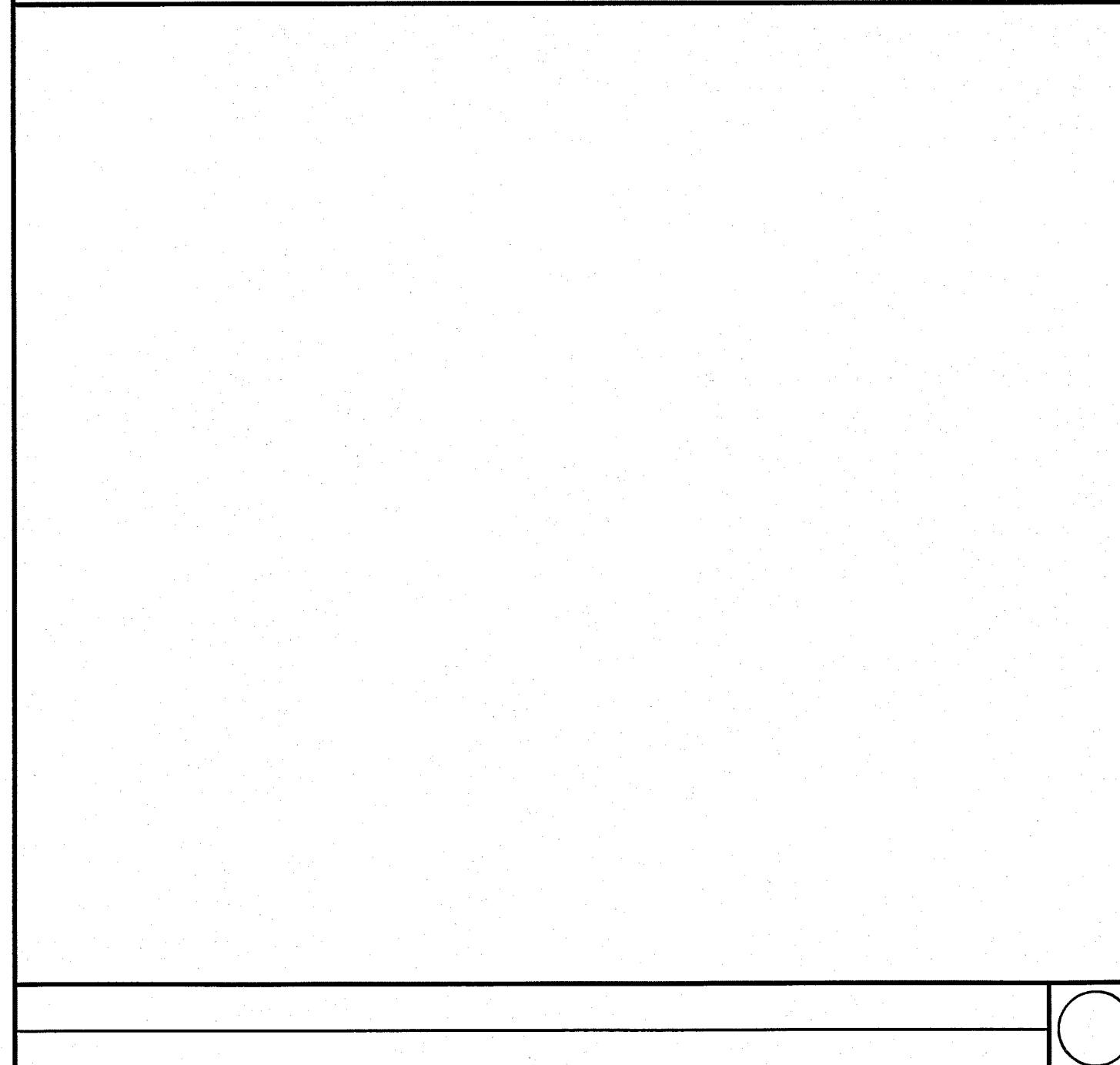
TYP. EXTERIOR CEMENT PLASTER FINISH DETAILS  
1" = 1'-0" **9**



CONE FLASHING @ PENETRATION  
3" = 1'-0" **5**



TYP. ROOF DRAIN @ ROOF PERIMETER  
NO SCALE **1**

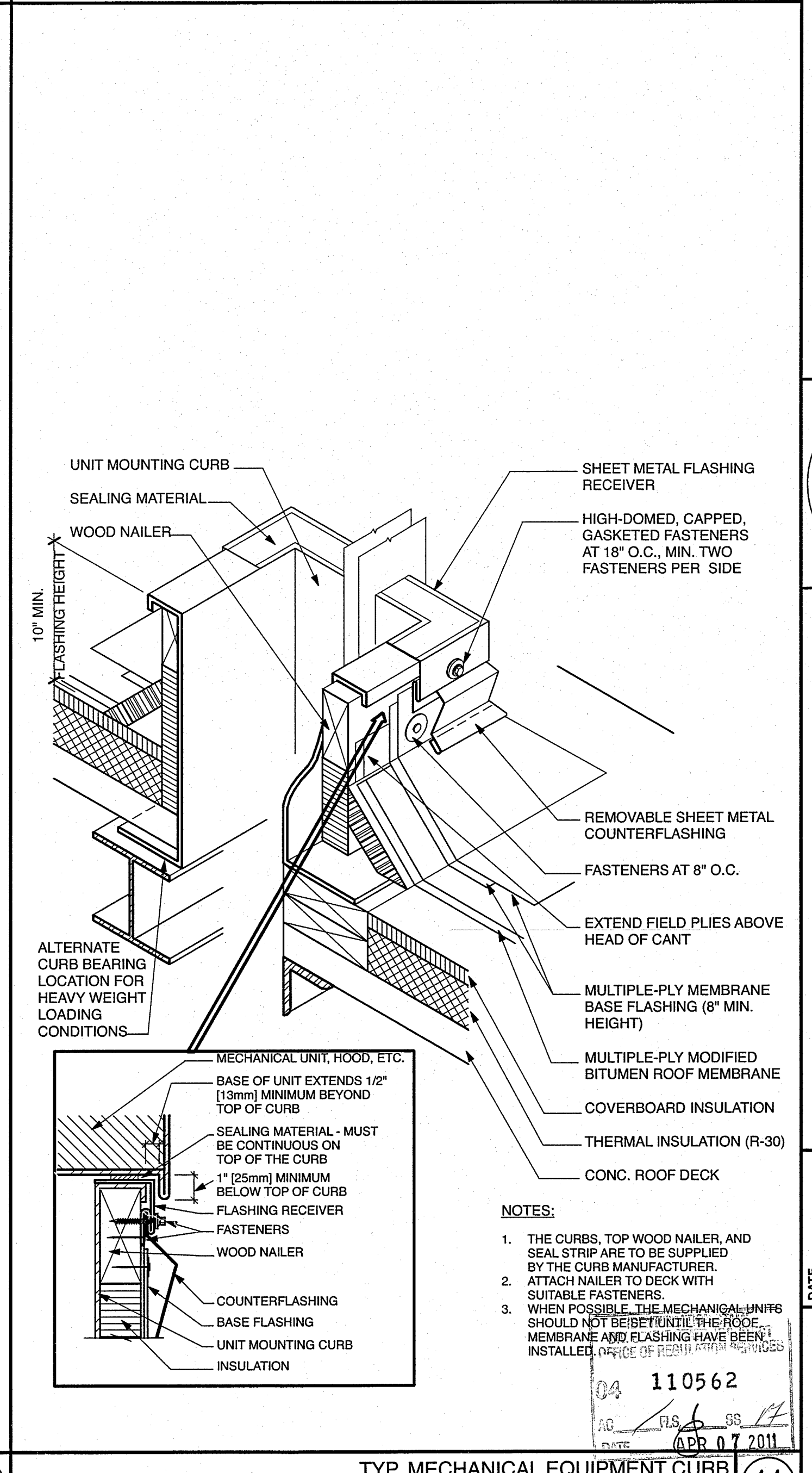
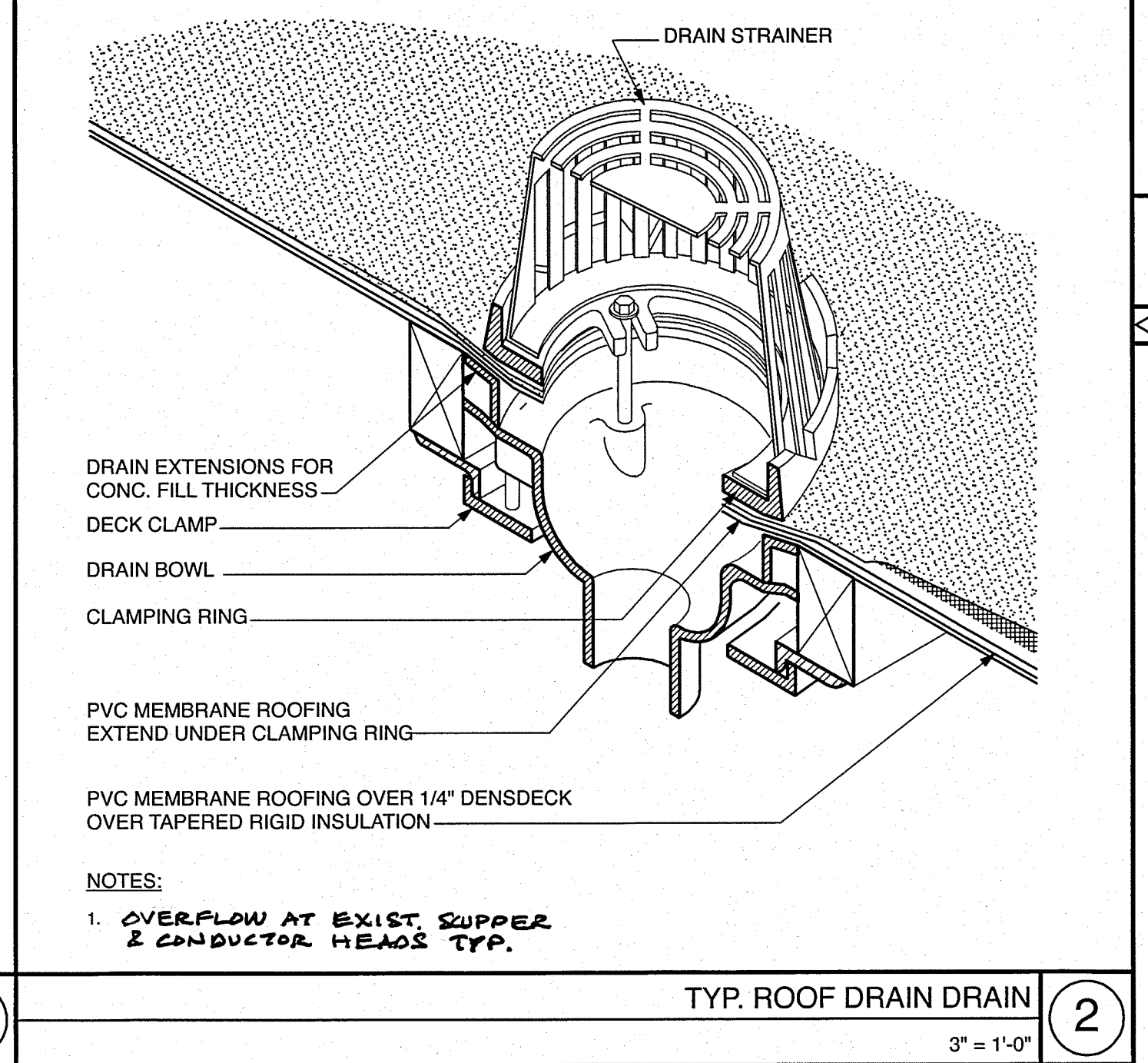
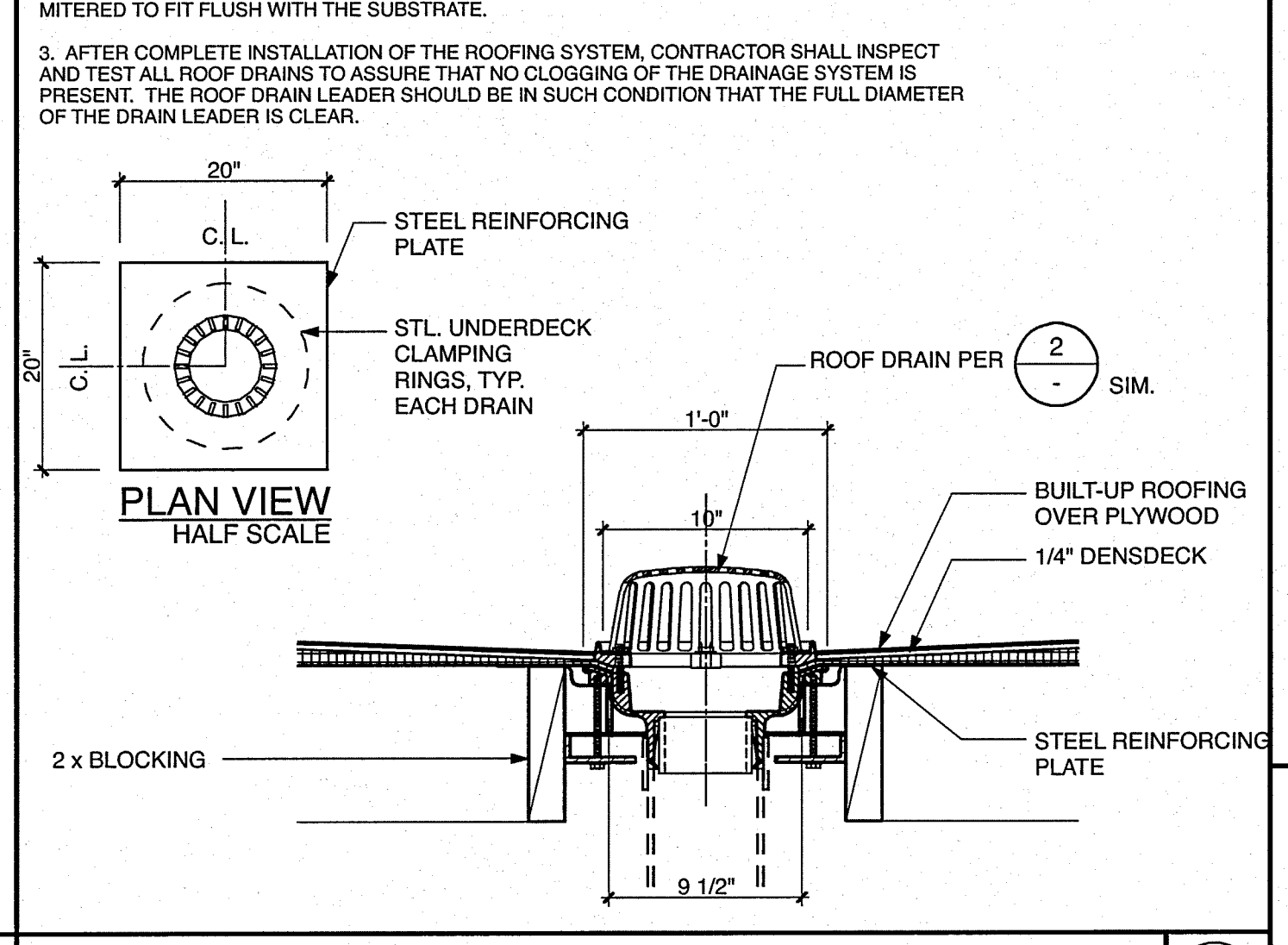


MECHANICAL ENCLOSURE SECTION  
1-1/2" = 1'-0" **16**

MECHANICAL ENCLOSURE SECTION  
1-1/2" = 1'-0" **7**

TYP. MECHANICAL EQUIPMENT CURB  
3" = 1'-0" **11**

**NOTES:**  
1. STEEL UNDERDECK CLAMPING RINGS SHALL BE USED ON ALL ROOF AND OVERFLOW DRAINS.  
2. IF THE DRAIN SUMP IS RECESSED BELOW THE DECK MORE THAN FOUR INCHES, FT. PLYWOOD OR PT. WOOD CANT STRIP SHALL BE INSTALLED TO MEET FLUSH WITH THE TOP OF THE SUMP. THE CANT SHALL BE INSTALLED AT A 45-DEGREE ANGLE, WITH THE TOP AND BOTTOM EDGES MITERED TO FIT FLUSH WITH THE SUBSTRATE.  
3. AFTER COMPLETE INSTALLATION OF THE ROOFING SYSTEM, CONTRACTOR SHALL INSPECT AND TEST ALL ROOF DRAINS TO ASSURE THAT NO CLOSING OF THE DRAINAGE SYSTEM IS PRESENT. THE ROOF DRAIN LEADER SHOULD BE IN SUCH CONDITION THAT THE FULL DIAMETER OF THE DRAIN LEADER IS CLEAR.



TYP. MECHANICAL EQUIPMENT CURB  
3" = 1'-0" **11**

**SPENCER / HOSKINS associates**  
Architecture & Planning

955 Overland Court, Suite 100  
San Dimas, California 91773-1718  
Tel: (909) 592-1321

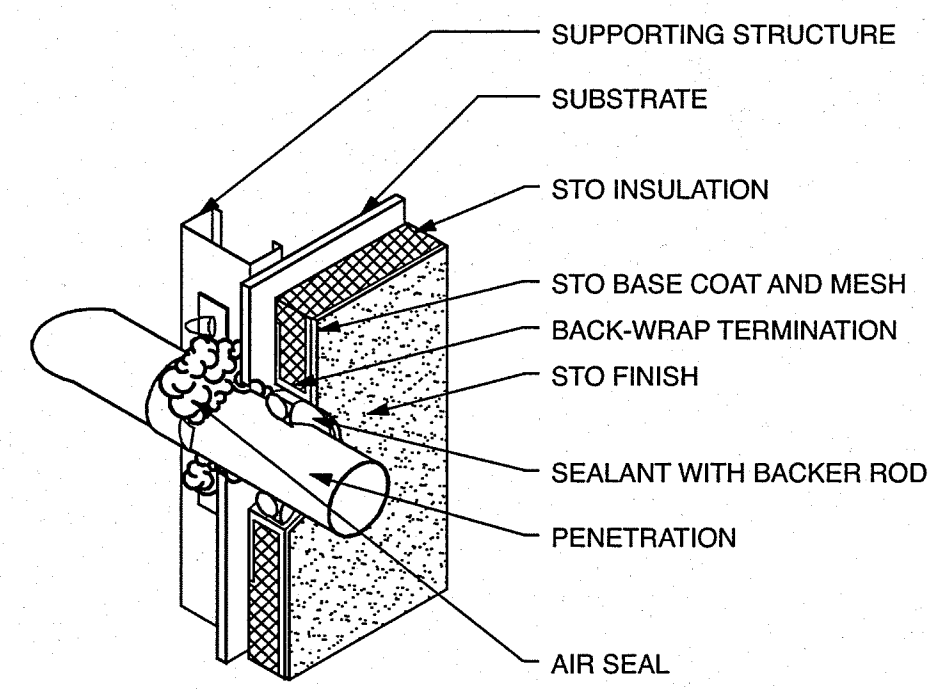
Jay F. Title, AIA, Architect C-19555  
James G. Spencer, AIA, Architect C-6465  
Stephen R. Hoskins, AIA, Architect C-7723

**CLAYPOOL BUILDING RECONSTRUCTION**  
PALO VERDE COLLEGE, NEEDLES CENTER  
PALO VERDE COMMUNITY COLLEGE DISTRICT  
725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363

DATE: 07-06-07  
DRAWN: KK, YCL  
CHECKED: JVT

SHEET NO. **A8.1**

110562  
AC 1156 38  
DATE: APR 07 2011

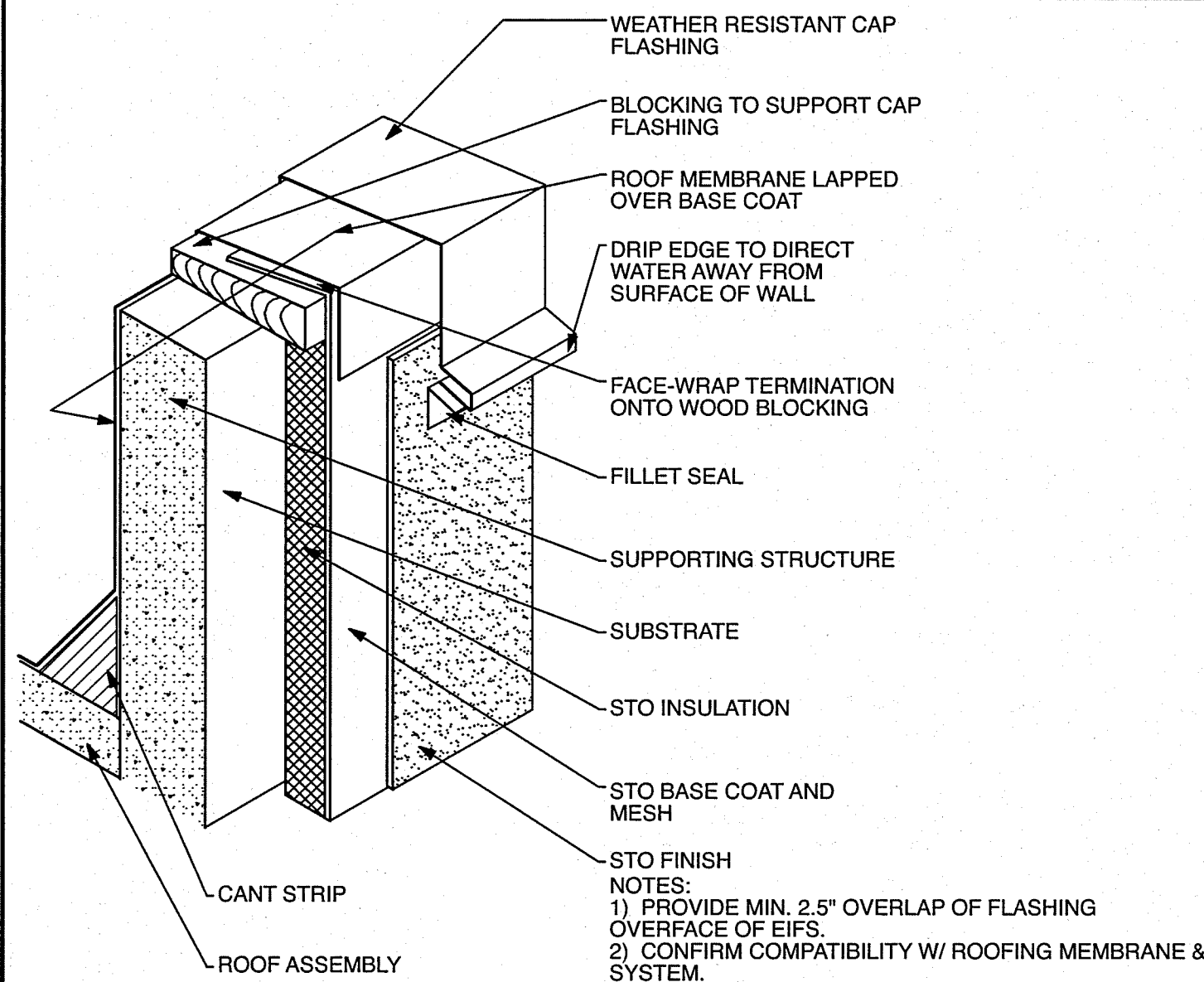


NOTES:  
 1) THIS DETAIL ASSUMES PIPE IS INSTALLED PRIOR TO EIFS OR THAT ITS LOCATION HAS BEEN IDENTIFIED.  
 2) PREPARE AN OPENING IN THE EIFS WITH A JOINT OF 1/2" AROUND THE PENETRATION AND PROVIDE CONT. SEALANT WITH A CLOSED CELL BACKER ROD. PROVIDE AIR SEAL AROUND THE INTERIOR SIDE OF THE PENETRATION TO PROVIDE AIR SEAL & TO REDUCE PRESSURE DIFFERENCE ACROSS THE OUTSIDE SEALANT.

TYP. PENETRATIONS AT E.I.F.S. FINISH SYSTEM

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

13

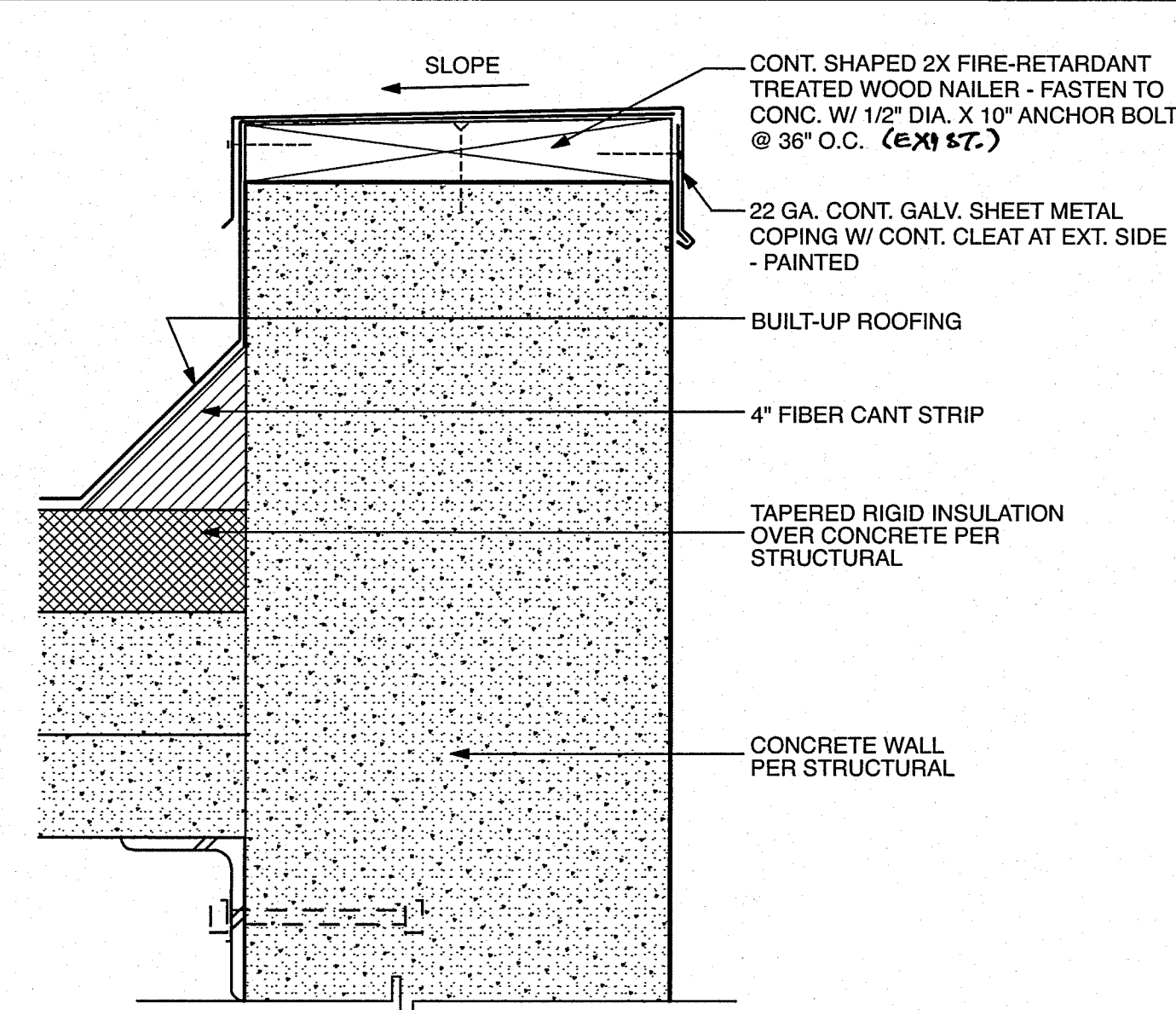


NOTES:  
 1) PROVIDE MIN. 2.5" OVERLAP OF FLASHING OVERFACE OF EIFS.  
 2) CONFIRM COMPATIBILITY W/ ROOFING MEMBRANE & SYSTEM.

TYP. PARAPET TOP AT E.I.F.S. FINISH SYSTEM

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

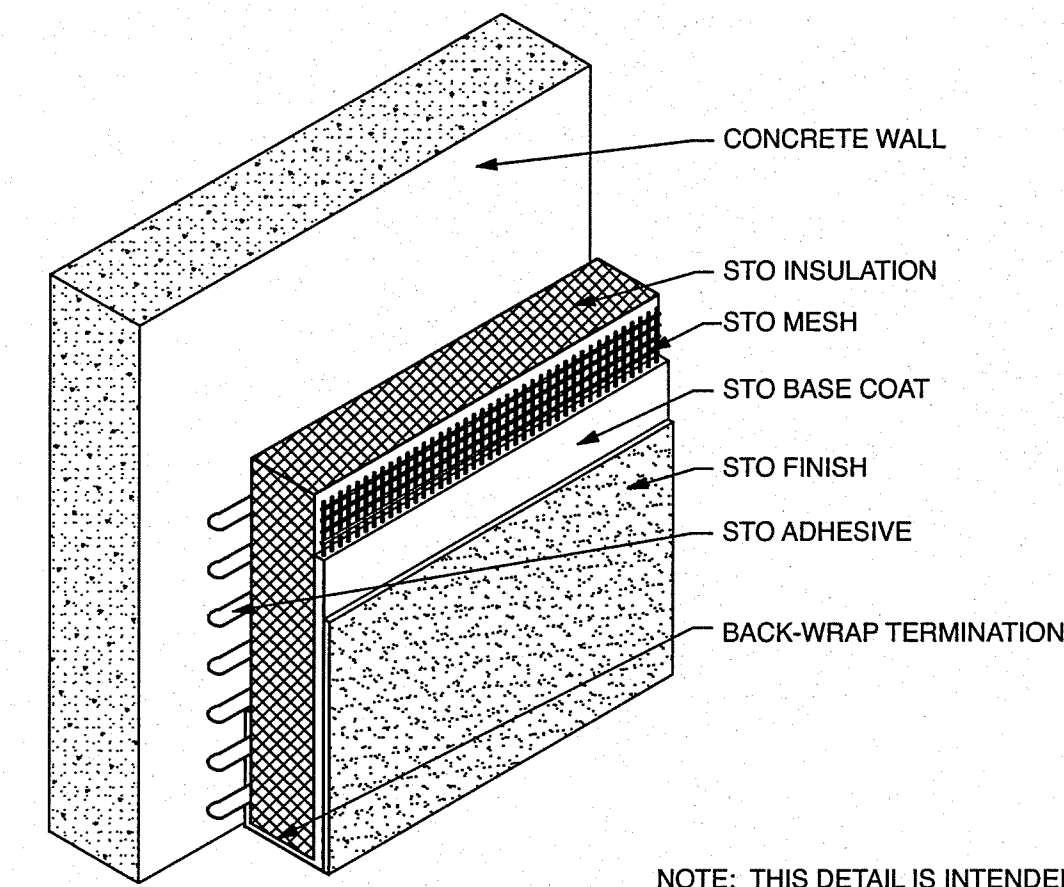
9



TYP. PARAPET WITHOUT E.I.F.S. FINISH SYSTEM

3" = 1'-0"

5

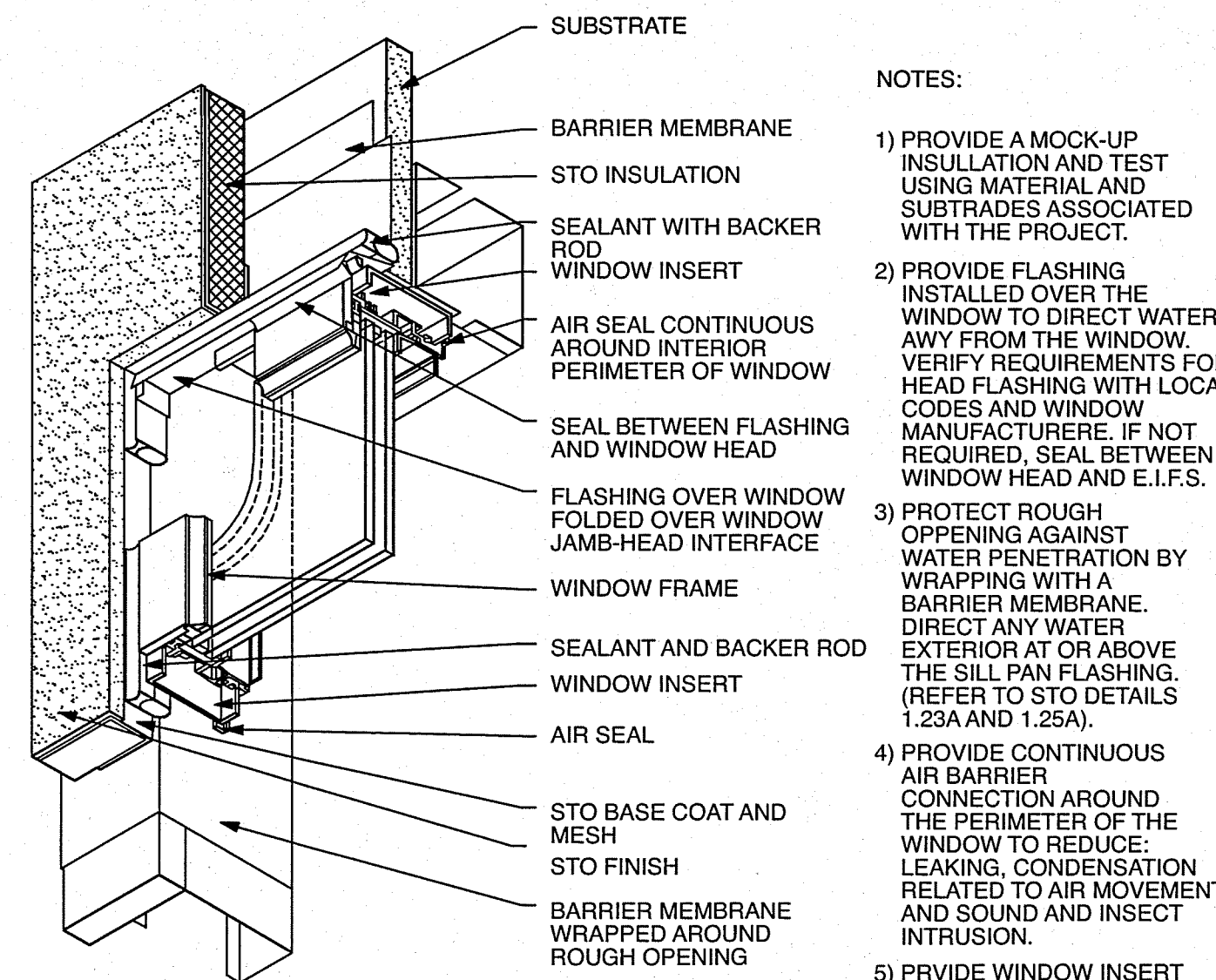


NOTE: THIS DETAIL IS INTENDED TO SHOW THE BASIC COMPONENTS OF AN EXTERIOR INSULATION & FINISH SYSTEM (E.I.F.S.). REFER TO PROJECT DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION & COMPLETE WORK REQUIRED UNDER THIS SECTION.

TYP. E.I.F.S. FINISH SYSTEM OVER CONC. MASONRY WALLS

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

1

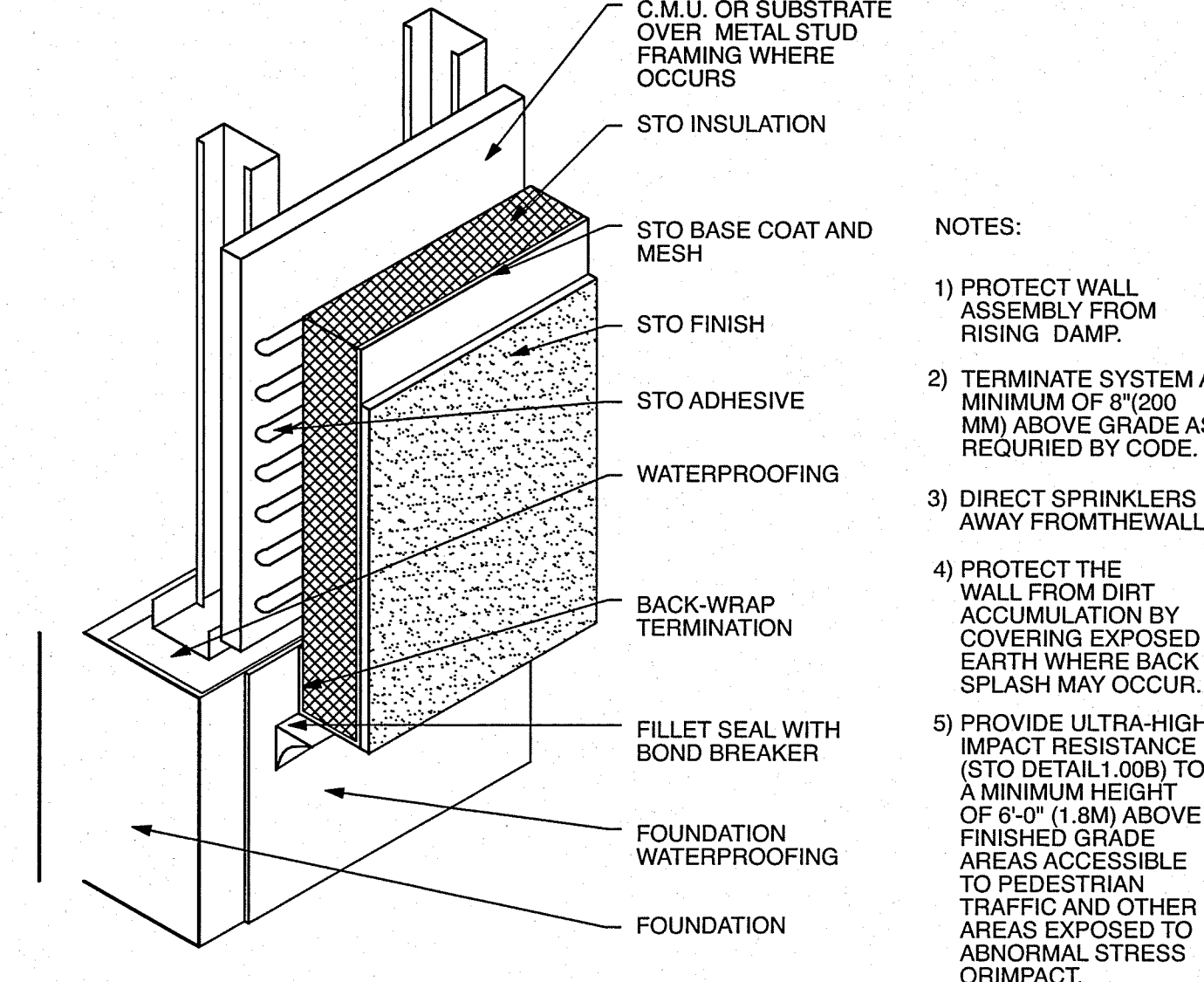


NOTES:  
 1) PROVIDE A MOCK-UP INSULATION AND TEST USING MATERIAL AND SUBSTRATES ASSOCIATED WITH THE PROJECT.  
 2) PROVIDE FLASHING INSTALLED OVER THE WINDOW TO DIRECT WATER AWAY FROM THE WINDOW. VERIFY REQUIREMENTS FOR HEAD FLASHING WITH LOCAL CODES AND WINDOW MANUFACTURER. IF NOT REQUIRED, SEAL BETWEEN WINDOW HEAD AND E.I.F.S.  
 3) PROTECT ROUGH OPENING AGAINST WATER PENETRATION BY WRAPPING WITH A BARRIER MEMBRANE. DIRECT ANY WATER EXTERIOR AT OR ABOVE THE SILL PAN FLASHING. (REFER TO STO DETAILS 1.22A AND 1.22A).  
 4) PROVIDE CONTINUOUS AIR BARRIER CONNECTION AROUND THE PERIMETER OF THE WINDOW TO REDUCE LEAKING, CONDENSATION RELATED TO AIR MOVEMENT AND SOUND AND INSECT INTRUSION.  
 5) PROVIDE WINDOW INSERT TO OPTIMIZE SEALANT CONFIGURATION.

TYP. WINDOW OR DOOR HEAD AT E.I.F.S. FINISH SYSTEM

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

10

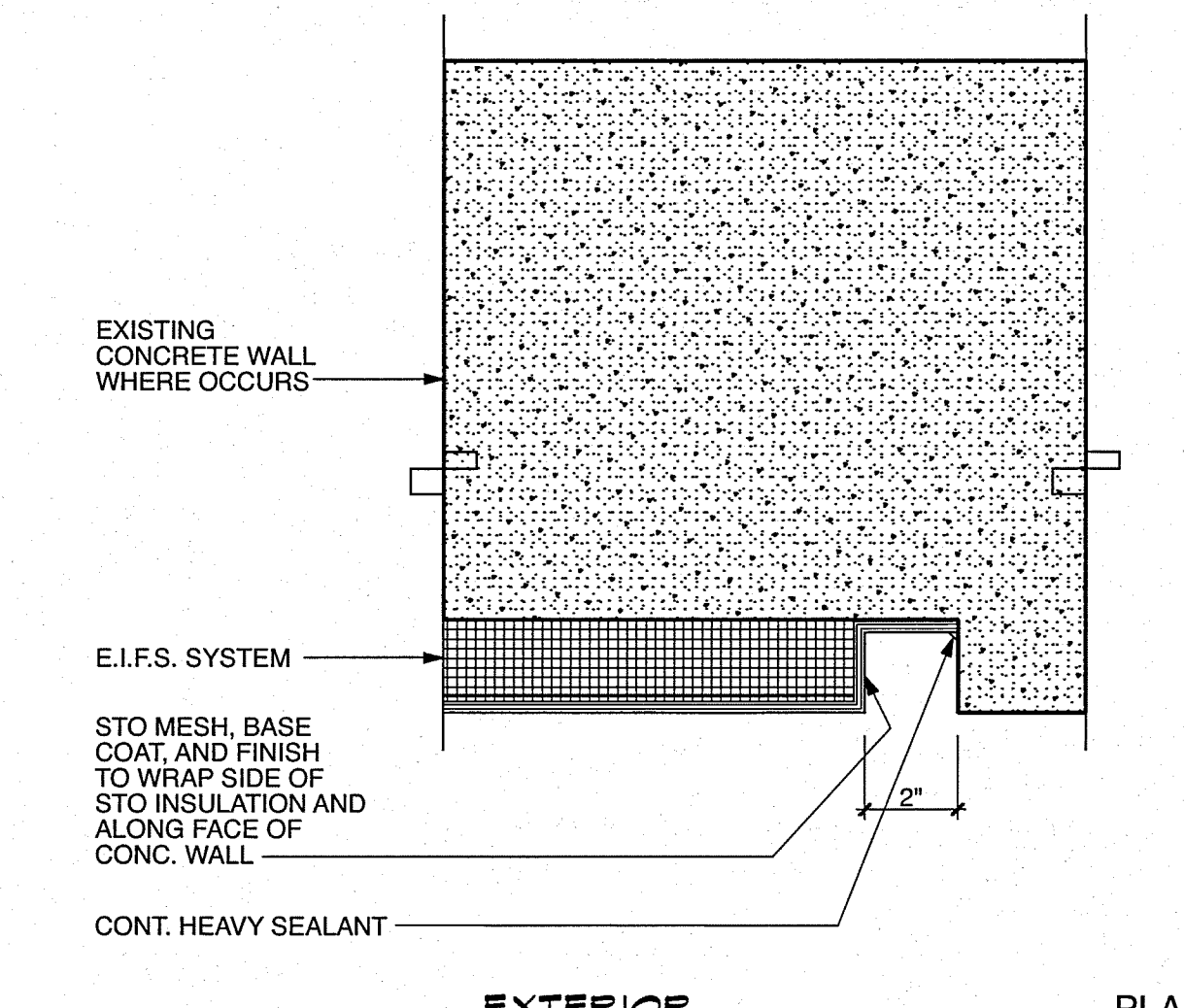


NOTES:  
 1) PROTECT WALL ASSEMBLY FROM RISING DAMP.  
 2) TERMINATE SYSTEM A MINIMUM OF 8"(200 MM) ABOVE GRADE AS REQUIRED BY CODE.  
 3) DIRECT SPRINKLERS AWAY FROM THE WALL.  
 4) PROTECT THE WALL FROM DIRT ACCUMULATION BY COVERING EXPOSED EARTH WHERE BACK SPLASH MAY OCCUR.  
 5) PROVIDE ULTRA-HIGH IMPACT RESISTANCE (STO DETAIL 1.00B) TO A MINIMUM HEIGHT OF 8'-0" (1.8M) ABOVE FINISHED GRADE AREAS ACCESSIBLE TO PEDESTRIAN TRAFFIC AND OTHER AREAS EXPOSED TO ABNORMAL STRESS OR IMPACT.

TYP. E.I.F.S. FINISH SYSTEM AT GRADE

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

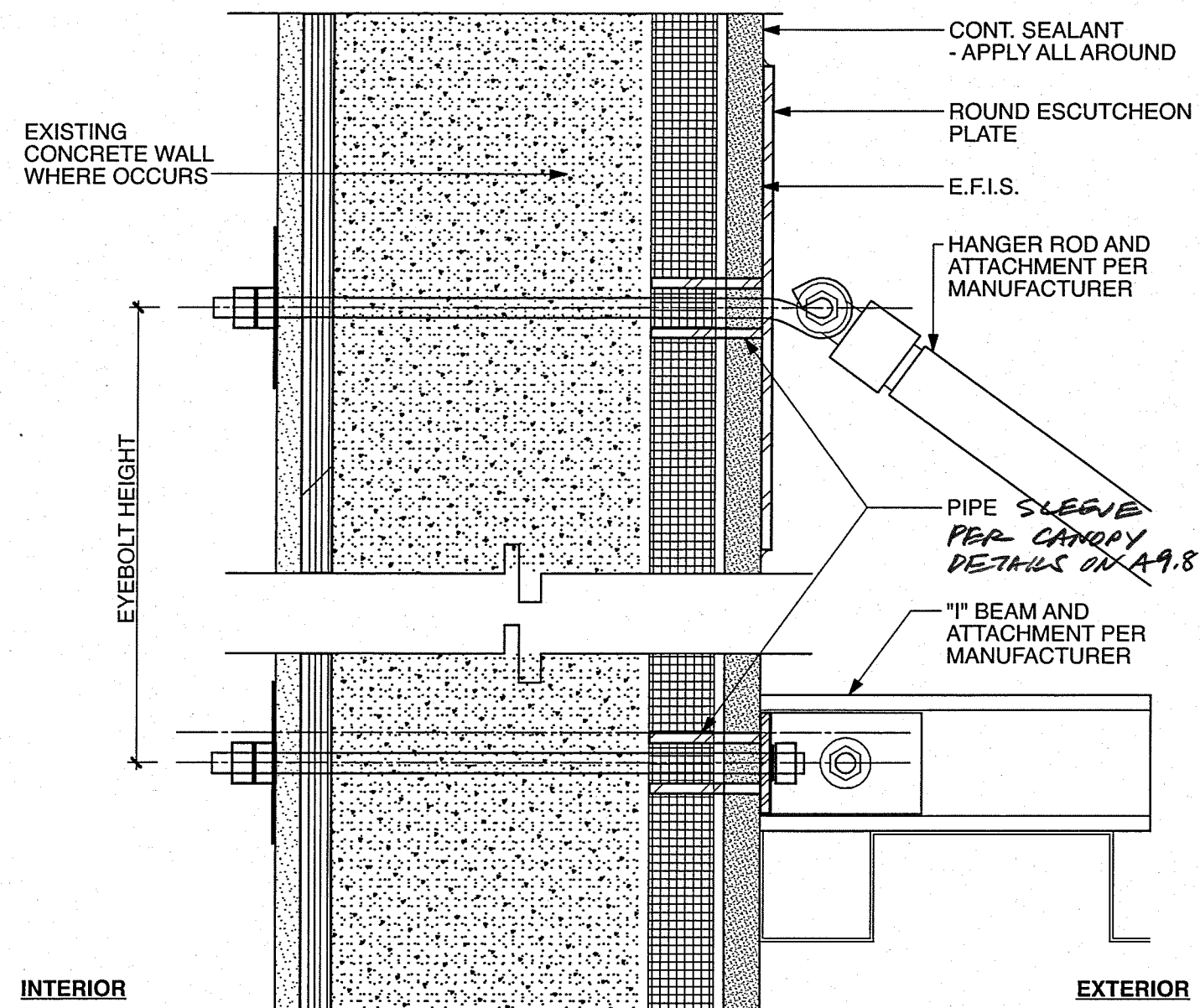
6



VERTICAL REVEAL AT E.I.F.S. FINISH SYSTEM

3" = 1'-0"

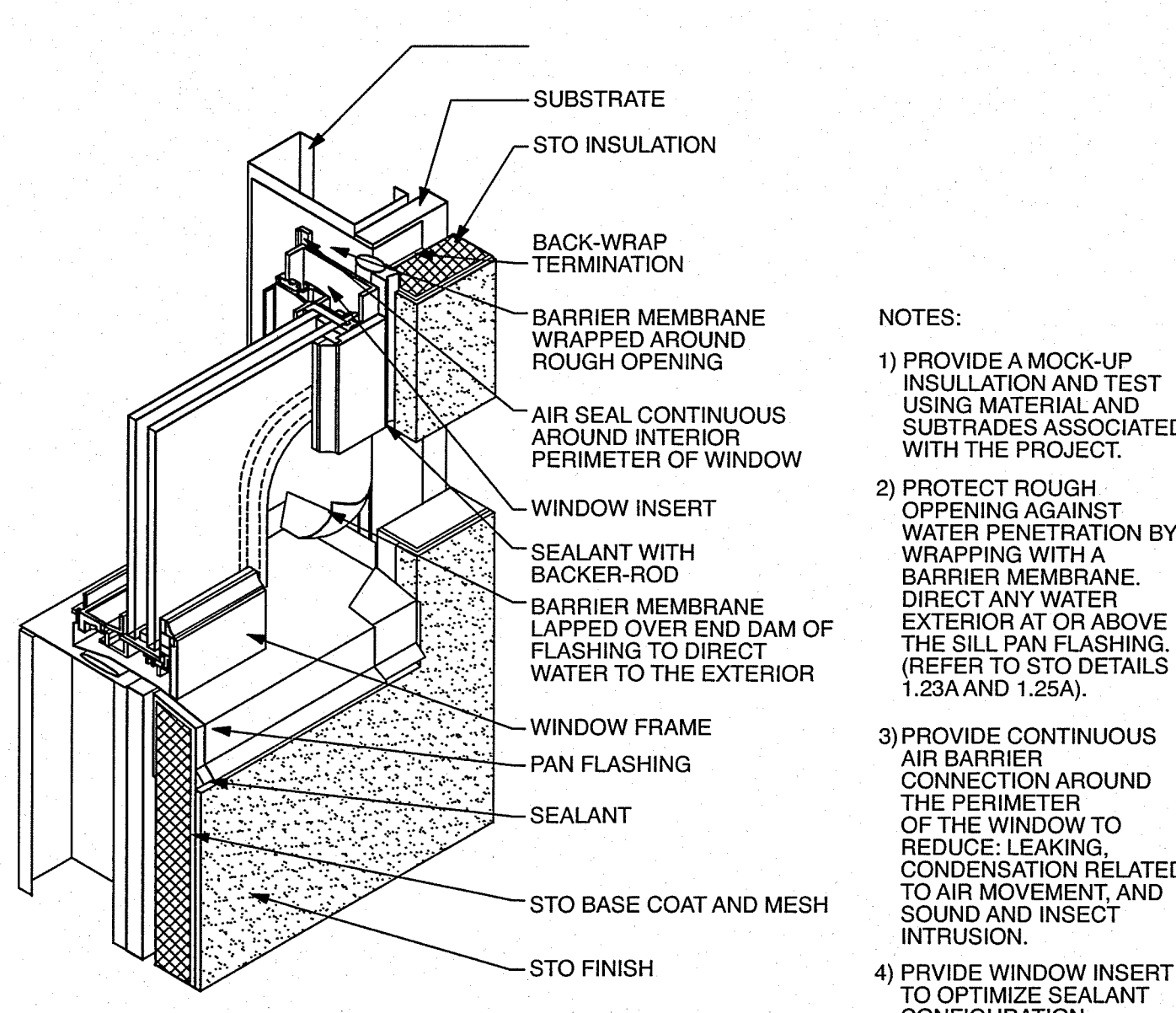
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CANOPY ATTACHMENT AT E.I.F.S. FINISH SYSTEM

3" = 1'-0"

7

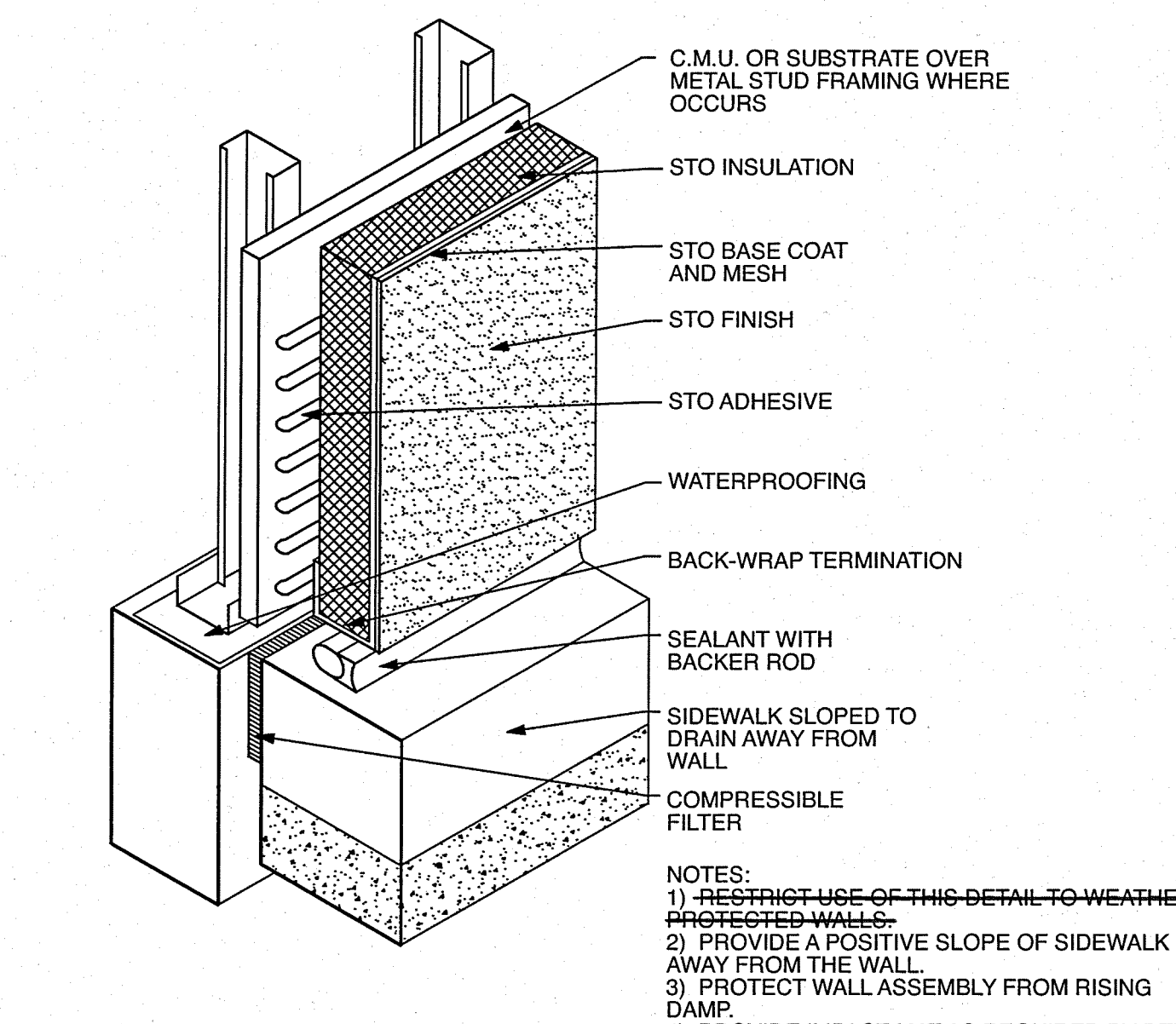


NOTES:  
 1) PROVIDE A MOCK-UP INSULATION AND TEST USING MATERIAL AND SUBSTRATES ASSOCIATED WITH THE PROJECT.  
 2) PROTECT ROUGH OPENING AGAINST WATER PENETRATION BY WRAPPING WITH A BARRIER MEMBRANE. DIRECT ANY WATER EXTERIOR AT OR ABOVE THE SILL PAN FLASHING. (REFER TO STO DETAILS 1.22A AND 1.22A).  
 3) PROVIDE CONTINUOUS AIR BARRIER CONNECTION AROUND THE PERIMETER OF THE WINDOW TO REDUCE LEAKING, CONDENSATION RELATED TO AIR MOVEMENT AND SOUND AND INSECT INTRUSION.  
 4) PROVIDE WINDOW INSERT TO OPTIMIZE SEALANT CONFIGURATION.

TYP. WINDOW OR DOOR SILL AT E.I.F.S. FINISH SYSTEM

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

11

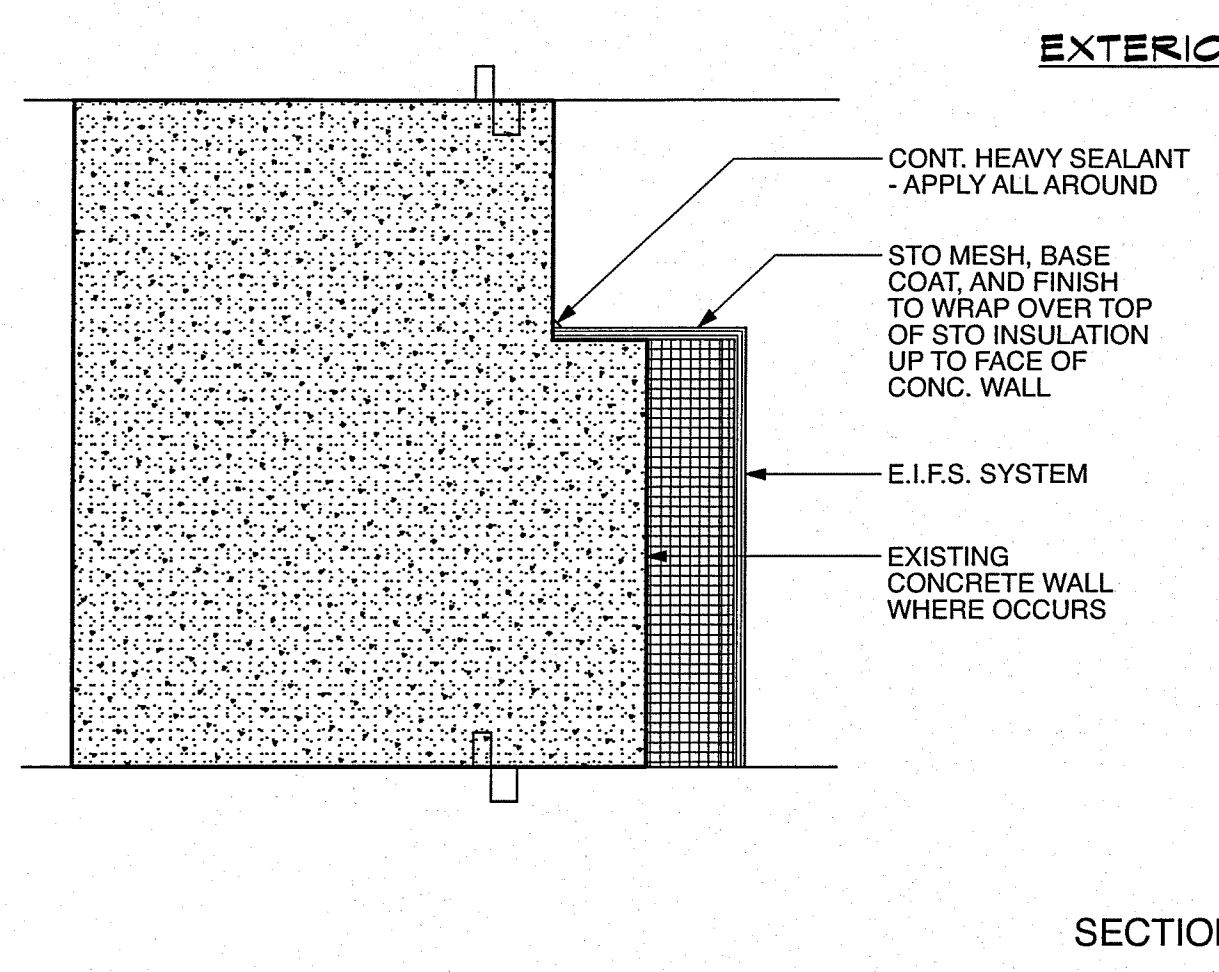


NOTES:  
 1) RESTRICT USE OF THIS DETAIL TO WEATHER-PROTECTED WALLS.  
 2) PROVIDE A POSITIVE SLOPE OF SIDEWALK AWAY FROM THE WALL.  
 3) PROTECT WALL ASSEMBLY FROM RISING DAMP.  
 4) PROVIDE IMPACT MAT AS REQUIRED BY DTL. 3.

TYP. E.I.F.S. FINISH SYSTEM AT PROTECTED WALKWAYS

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

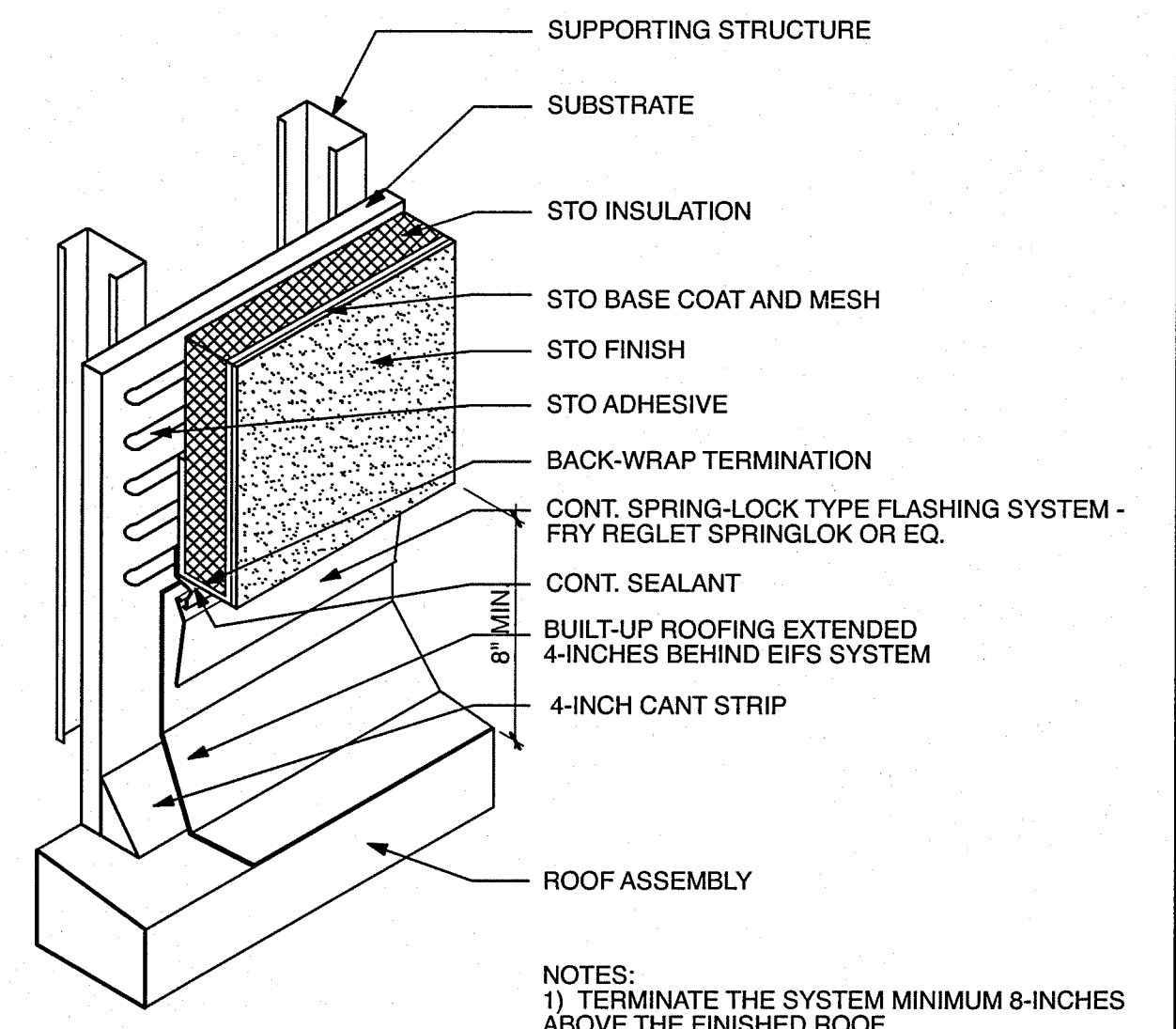
7



TOP OF E.I.F.S. FINISH SYSTEM @ WEST ELEVATION

3" = 1'-0"

3



NOTES:  
 1) TERMINATE THE SYSTEM MINIMUM 8-INCHES ABOVE THE FINISHED ROOF.

TYP. E.I.F.S. FINISH SYSTEM AT ROOF

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

12

CONSULTANT

NO.	DATE	REVISIONS

SPENCER / HOSKINS associates  
 Architecture & Planning  
 Jay R. Title, AIA, Architect, C-12955  
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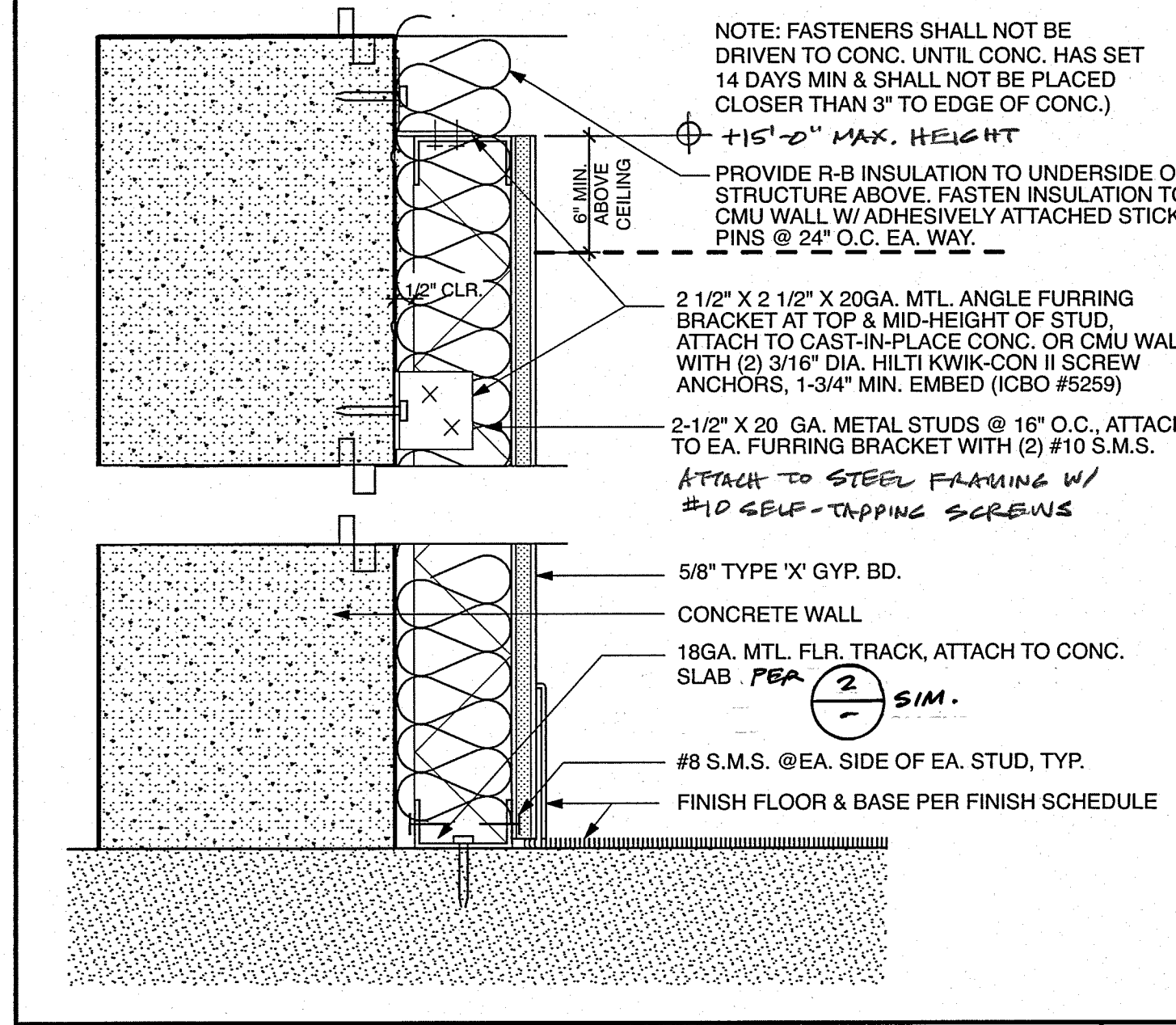
E.I.F.S. DETAILS

DATE: 07-06-07  
 JOB NO.: 2007-SH95-00  
 DRAWN: [Signature]  
 CHECKED: [Signature]  
 SHEET NO.: 110562  
 DATE: APR 07 2011

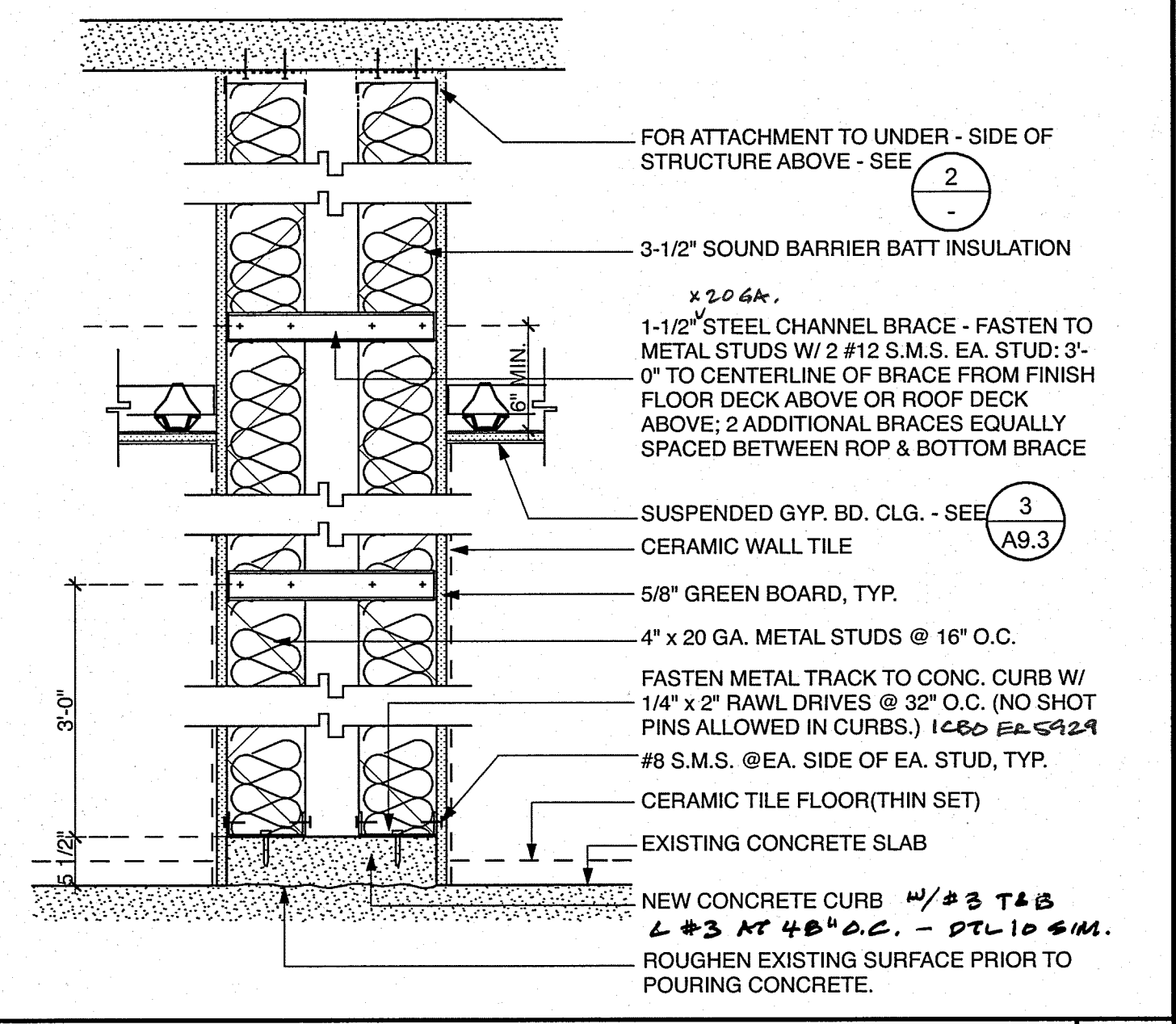
A8.2

SHEET OF

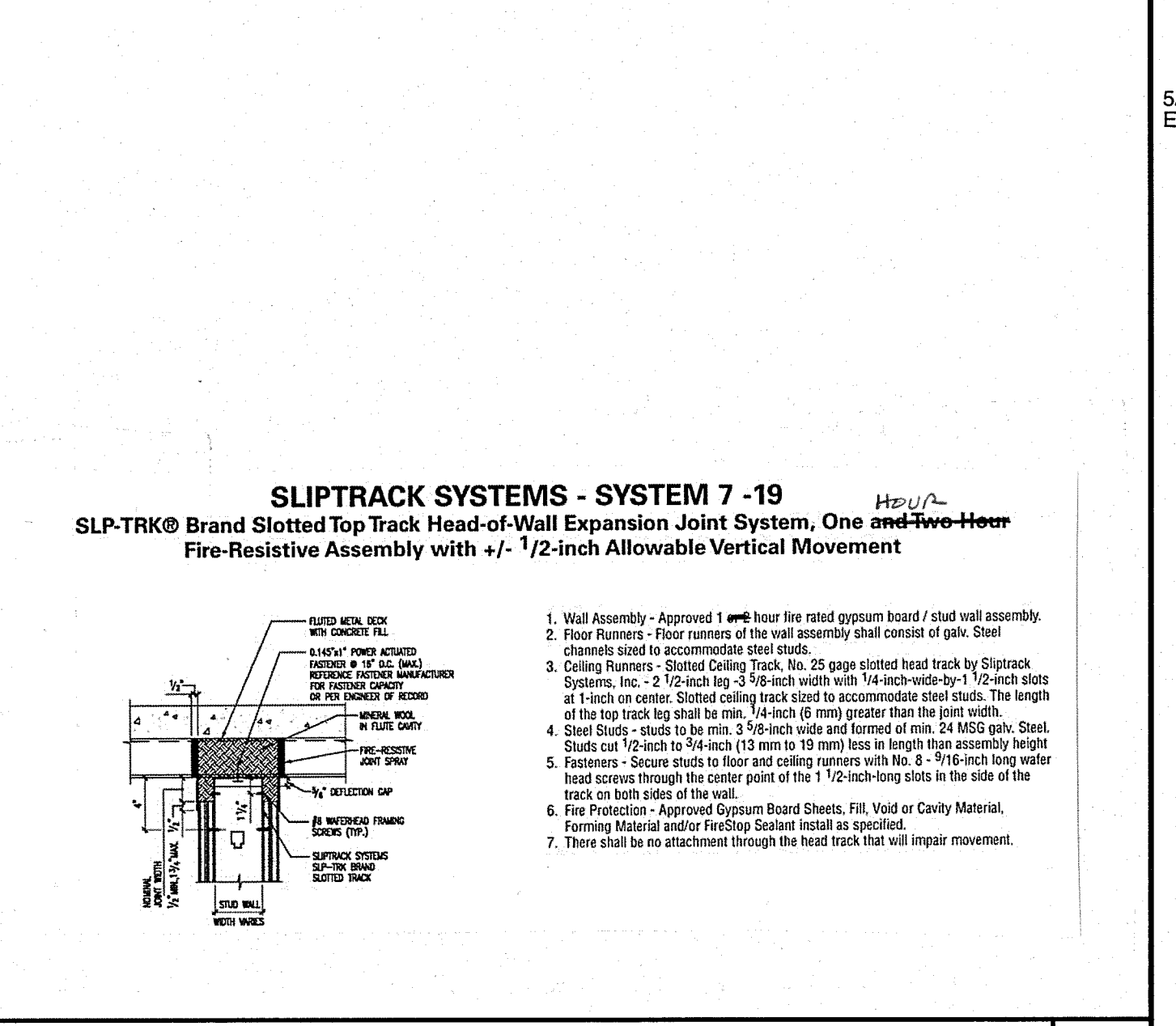




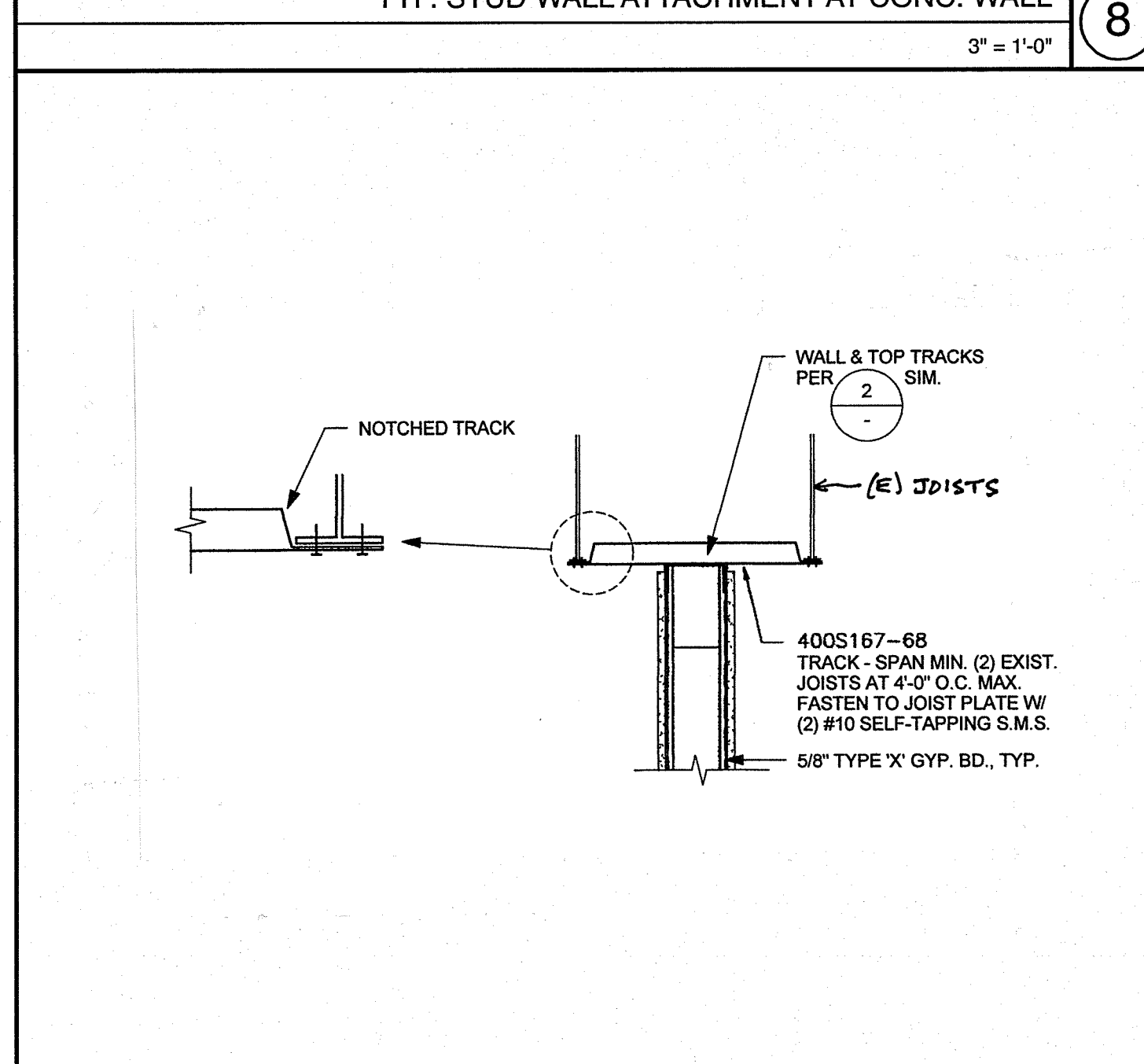
TYP. STUD WALL ATTACHMENT AT CONC. WALL  
3" = 1'-0"



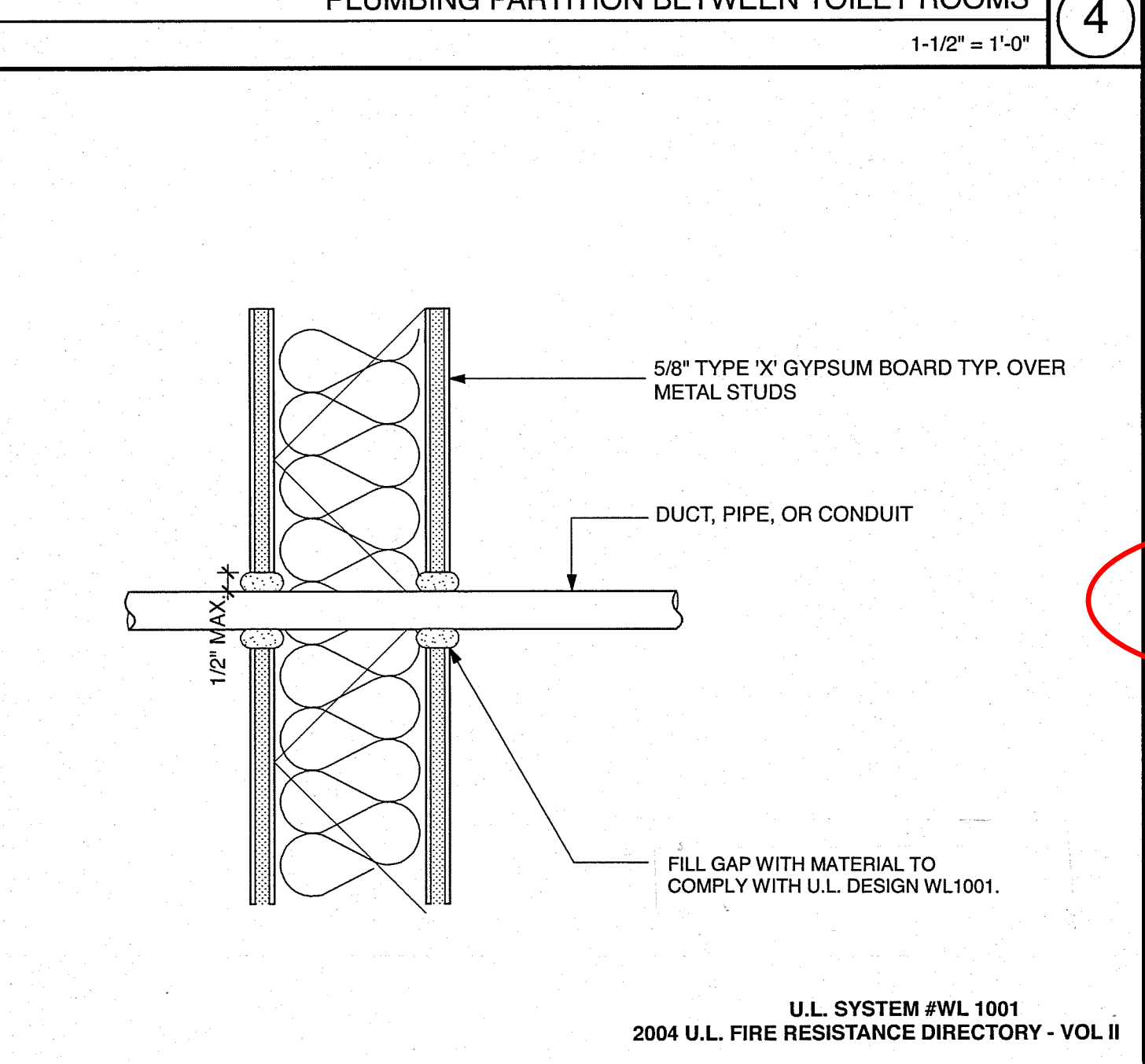
PLUMBING PARTITION BETWEEN TOILET ROOMS  
1-1/2" = 1'-0"



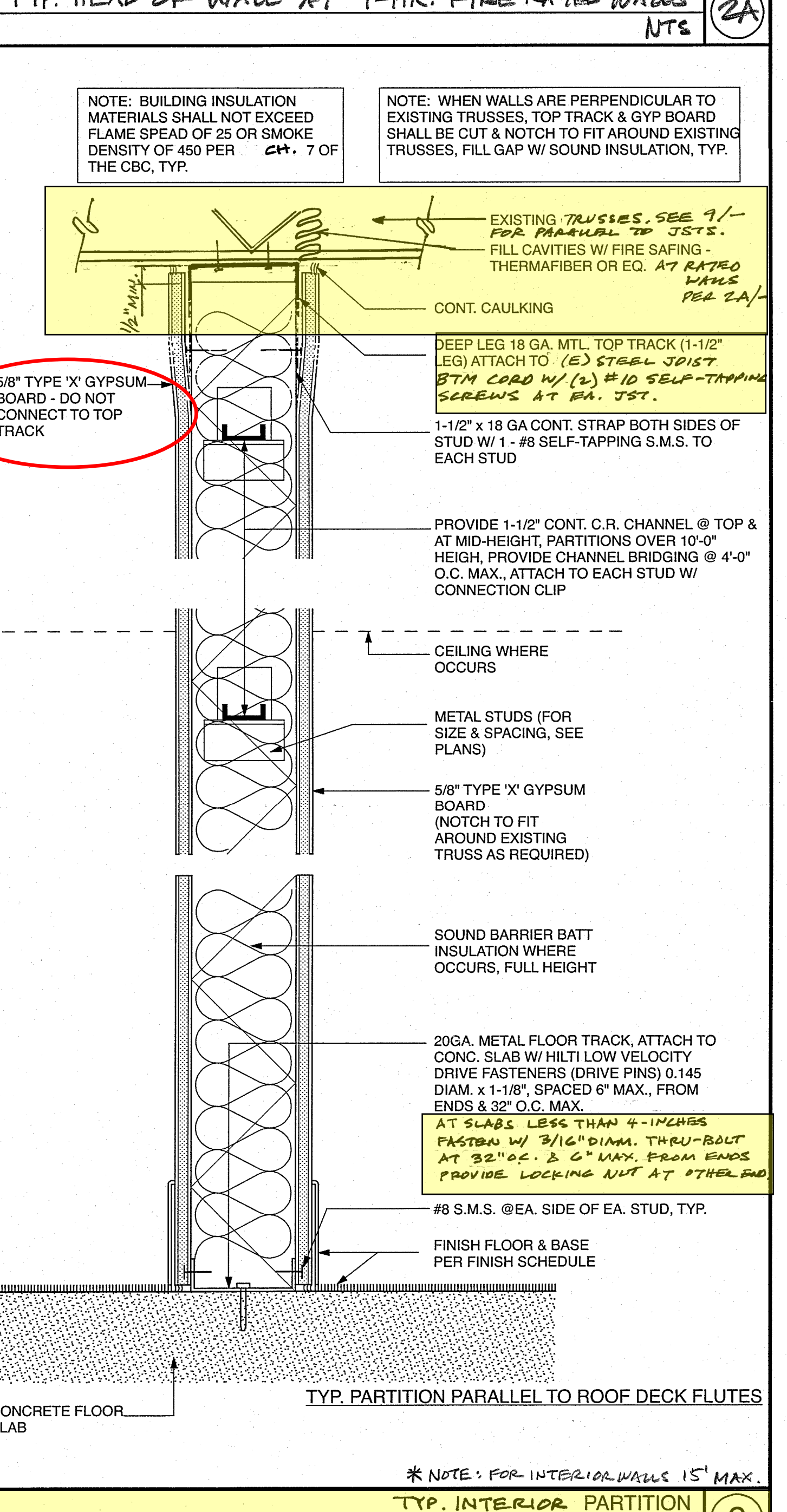
TYP. HEAD OF WALL AT 1-HR. FIRE RATED WALLS  
NOTE: 2A



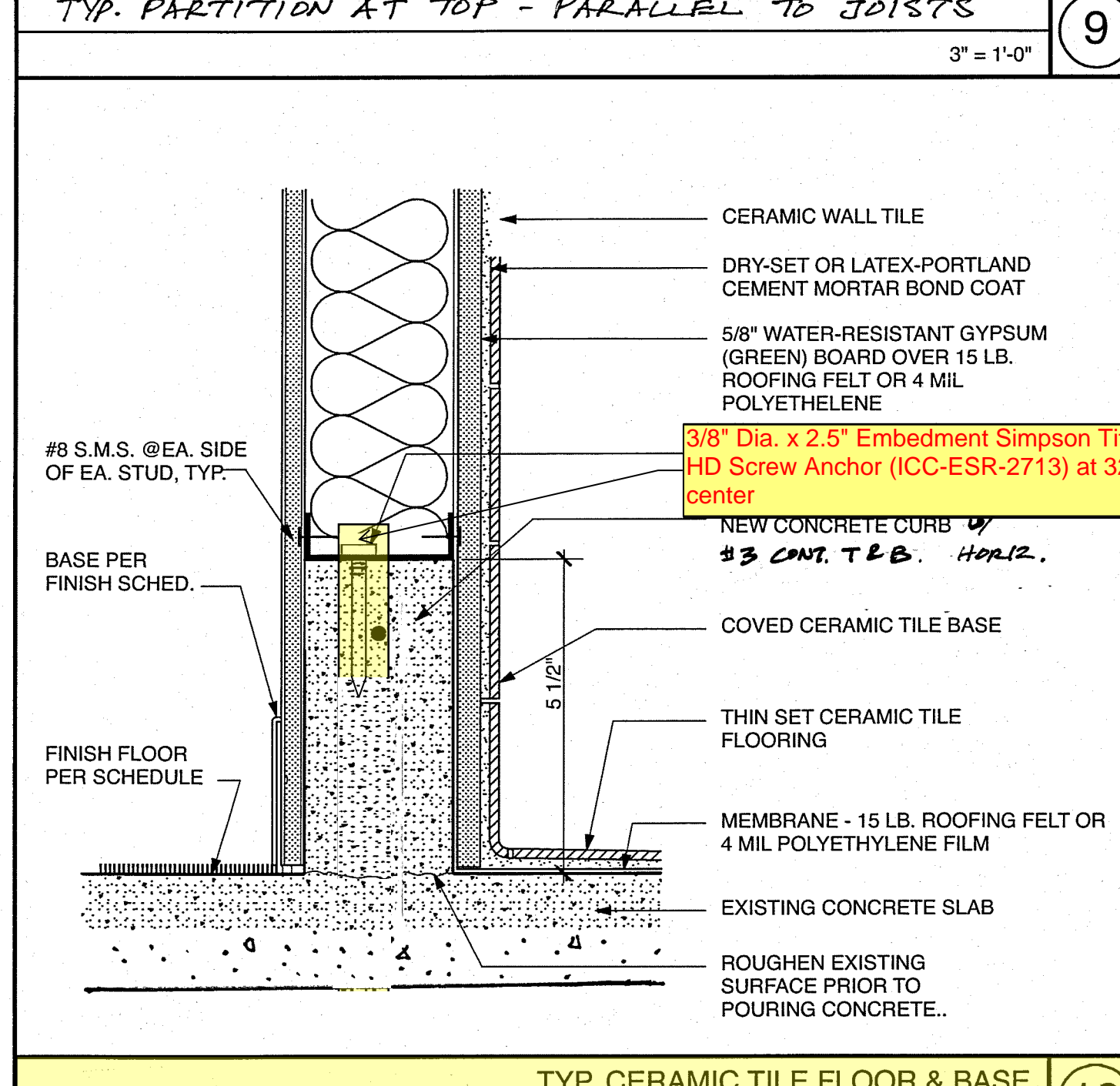
TYP. PARTITION AT TOP - PARALLEL TO JOISTS  
3" = 1'-0"



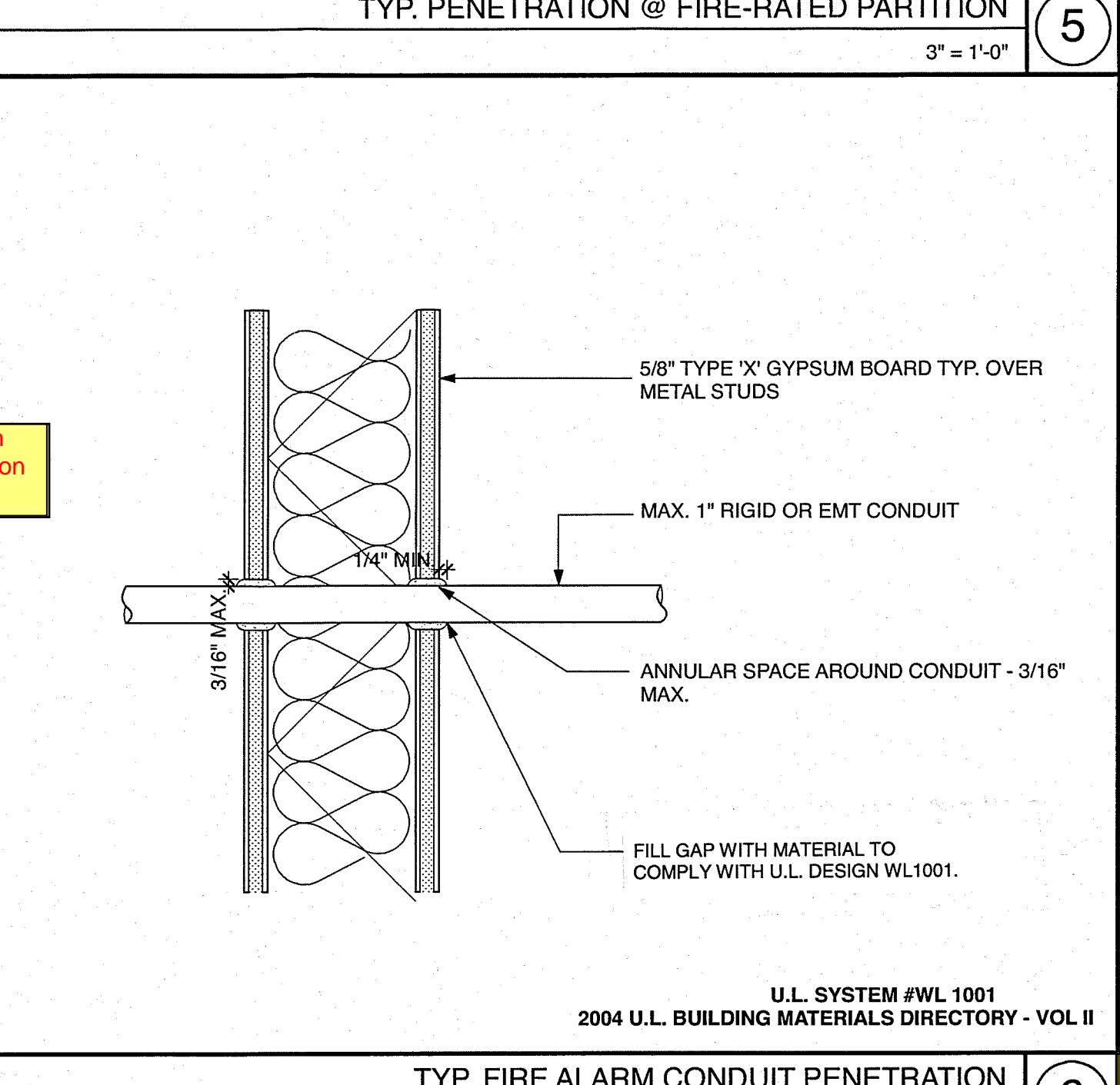
TYP. PENETRATION @ FIRE-RATED PARTITION  
3" = 1'-0"



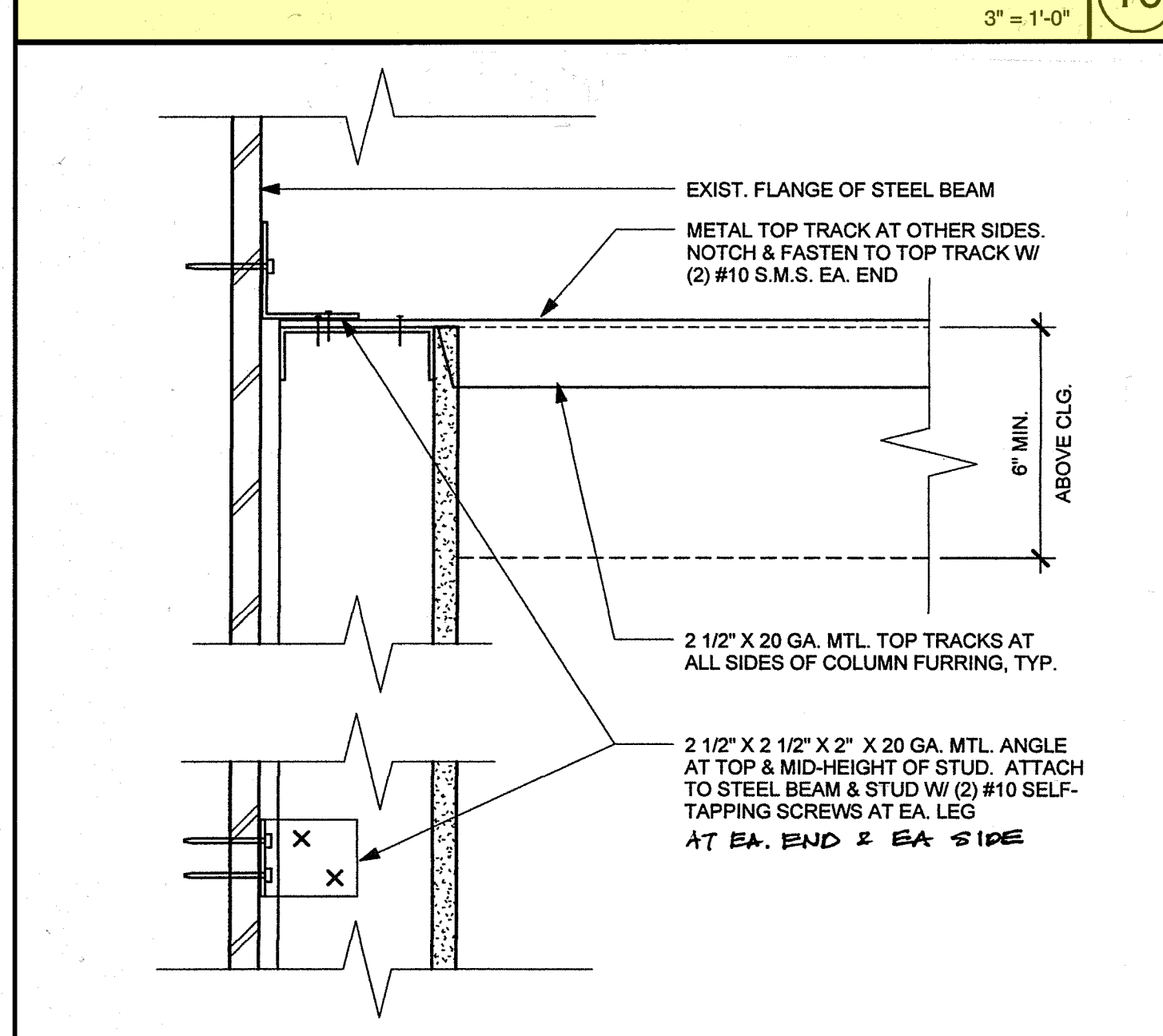
TYP. PARTITION PARALLEL TO ROOF DECK FLUTES  
NOTE: FOR INTERIOR WALLS 15" MAX.



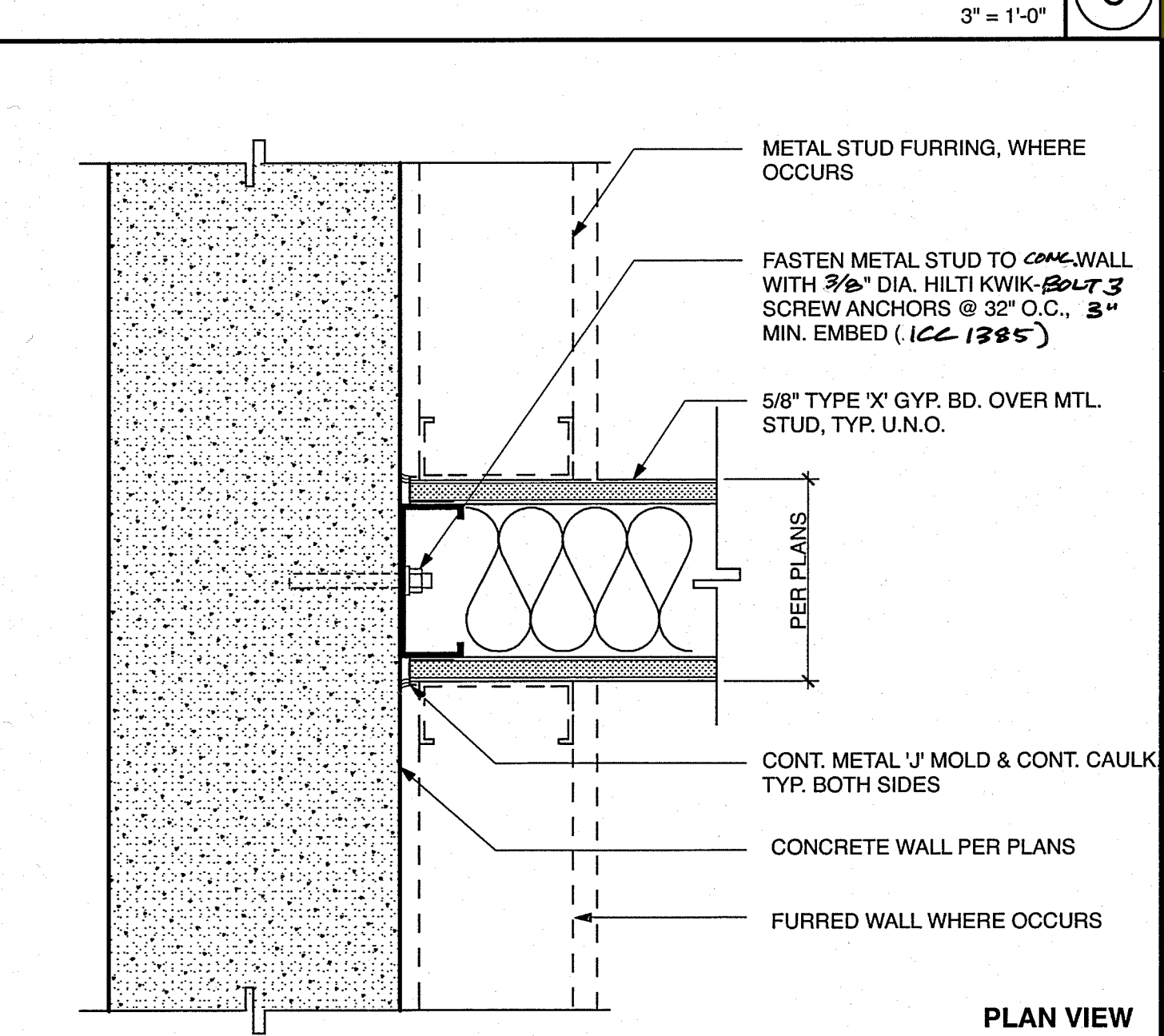
TYP. CERAMIC TILE FLOOR & BASE  
3" = 1'-0"



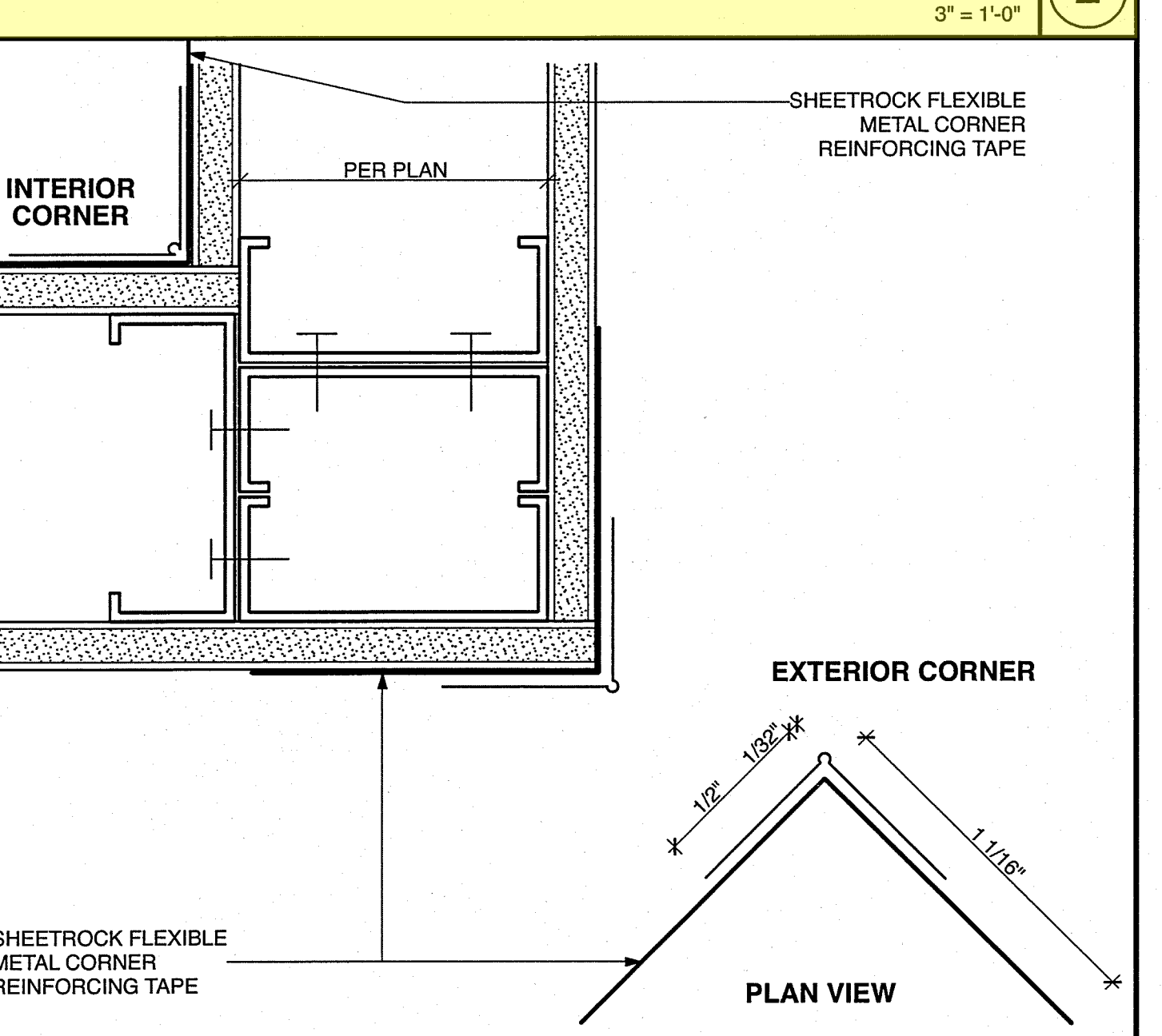
TYP. FIRE ALARM CONDUIT PENETRATION  
3" = 1'-0"



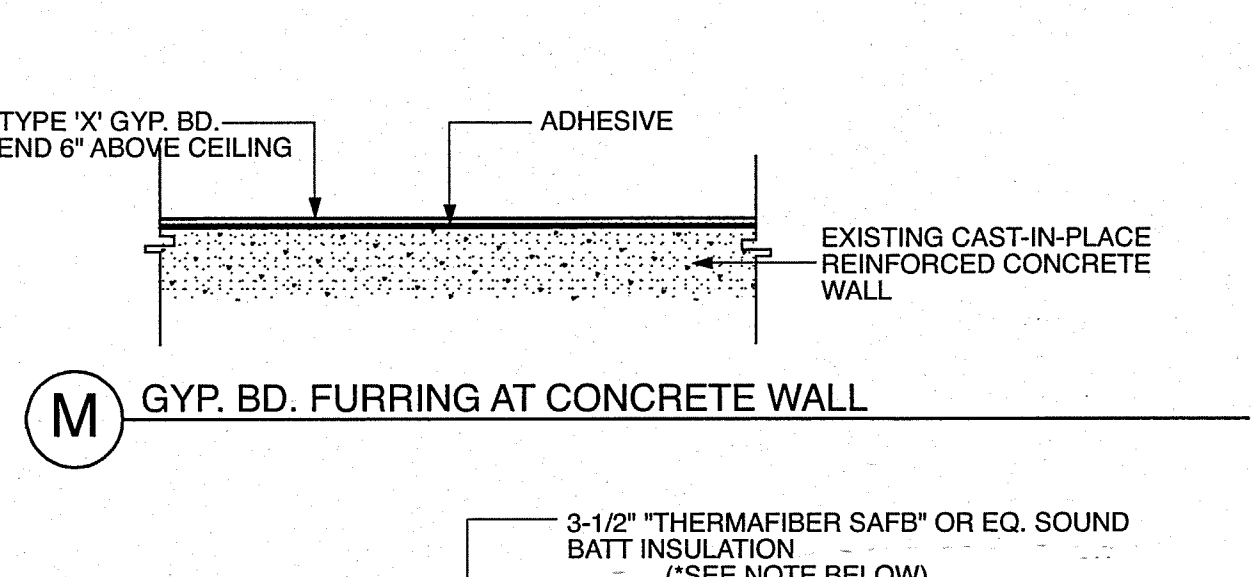
TYP. COLUMN FURRING FRAMING  
3" = 1'-0"



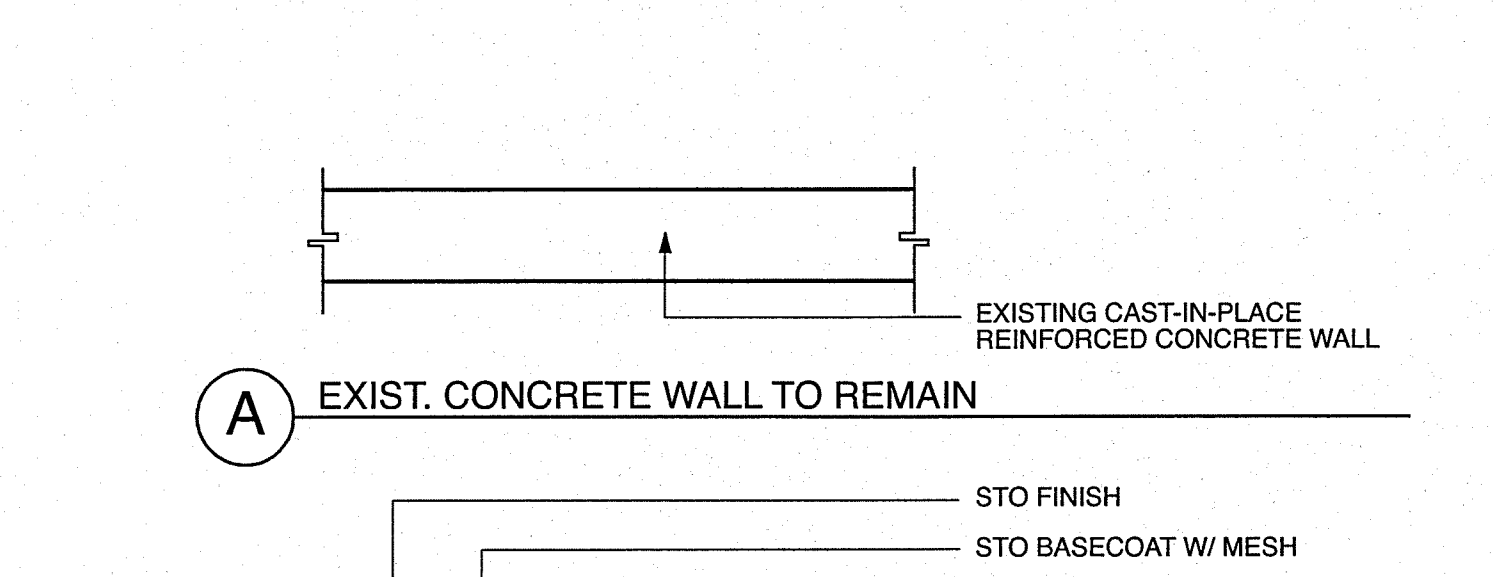
TYP. METAL STUD PARTITION TO CONCRETE C.M.U.  
PLAN VIEW



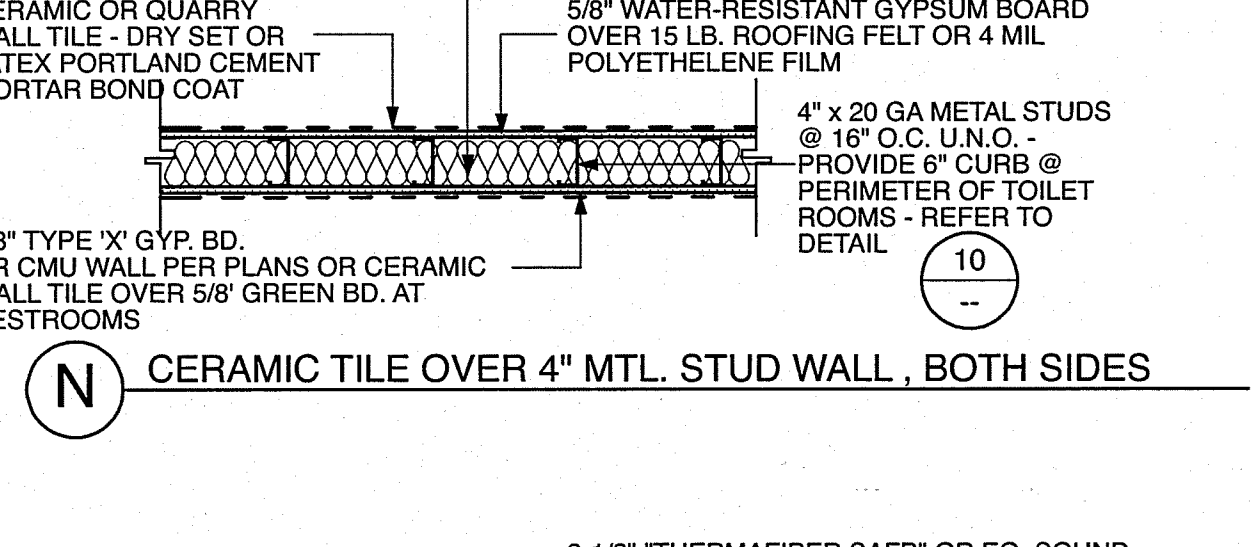
TYP. DRYWALL CORNER  
PLAN VIEW  
HALF SIZE



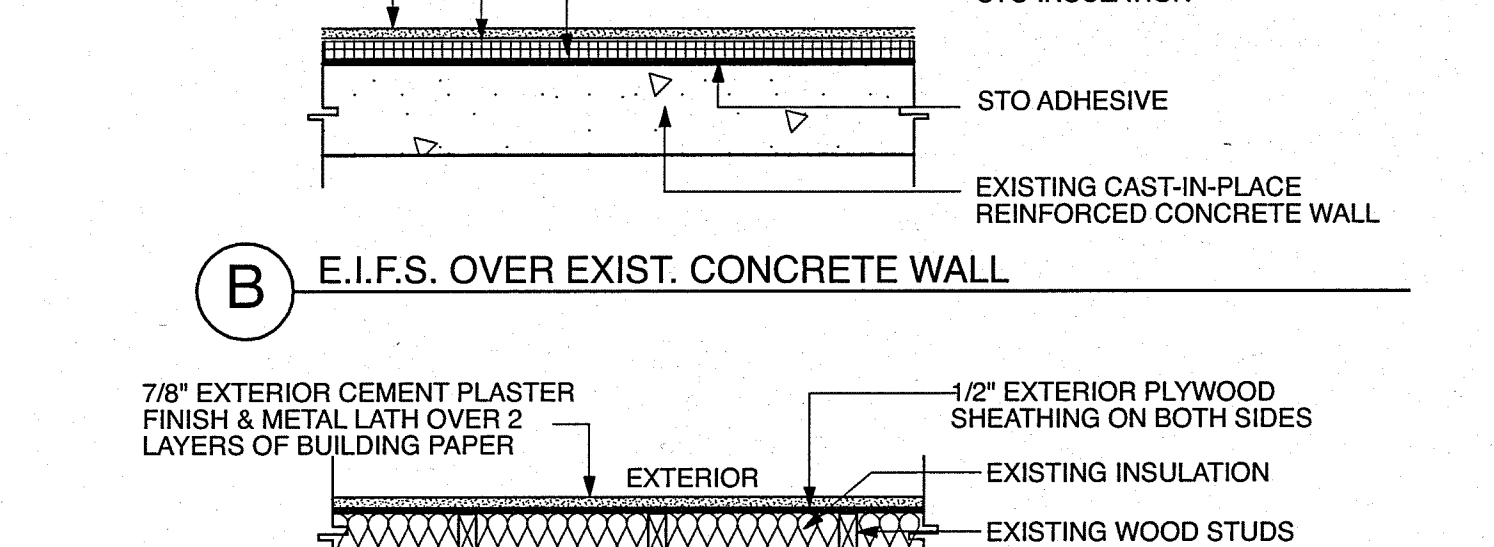
GYP. BD. FURRING AT CONCRETE WALL



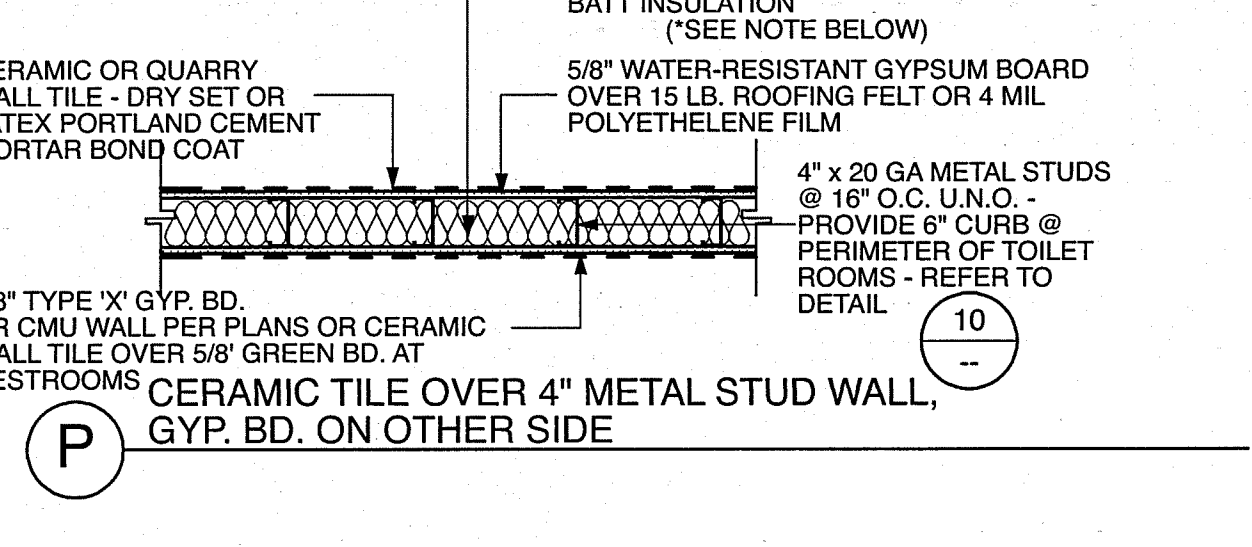
EXIST. CONCRETE WALL TO REMAIN



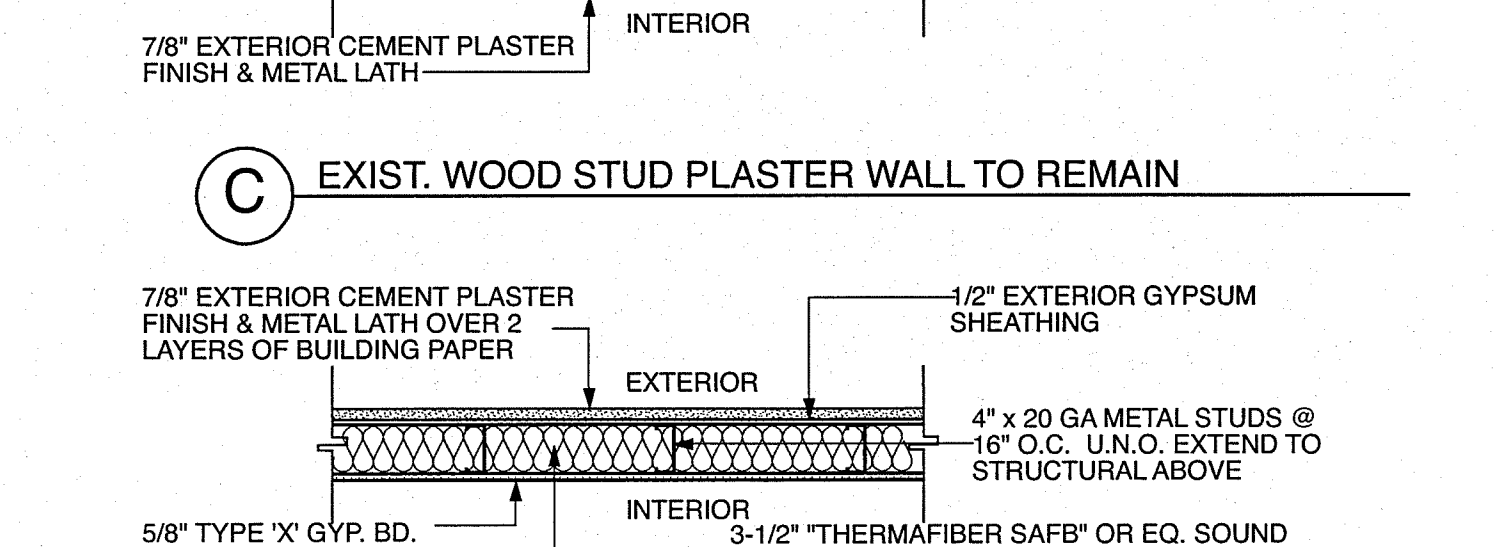
CERAMIC TILE OVER 4" METAL STUD WALL, BOTH SIDES



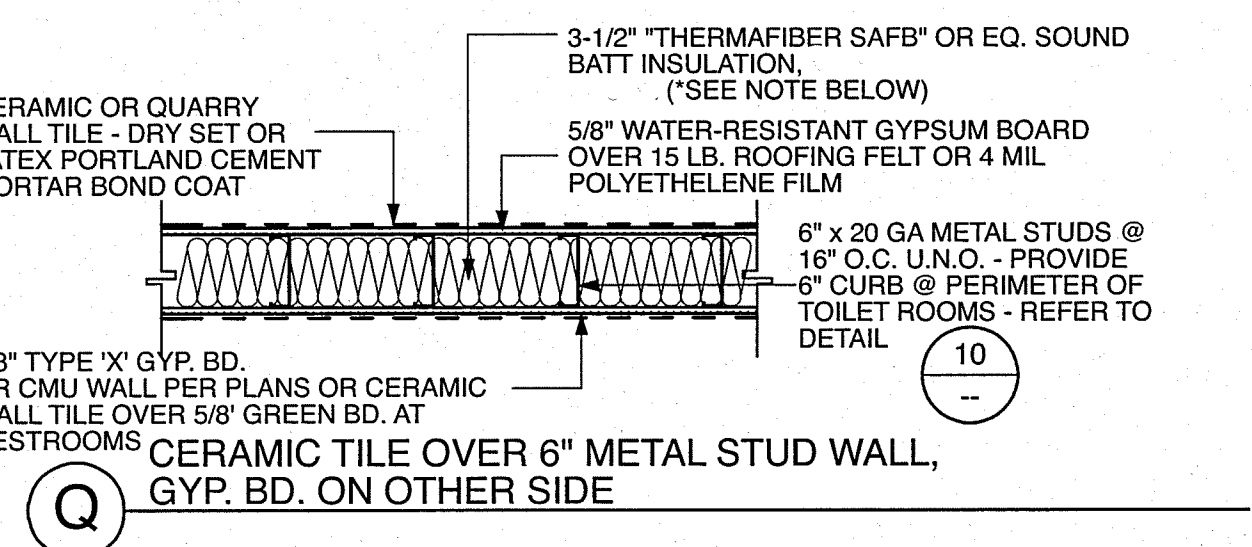
E.I.F.S. OVER EXIST. CONCRETE WALL



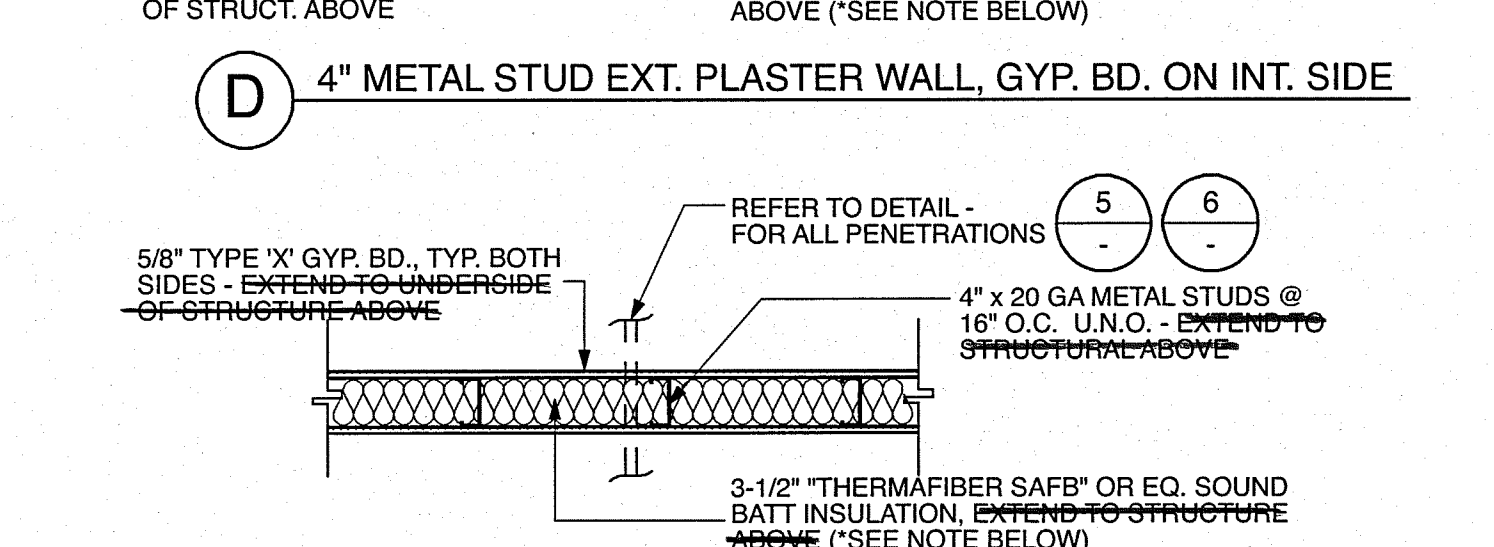
CERAMIC TILE OVER 4" METAL STUD WALL, GYP. BD. ON OTHER SIDE



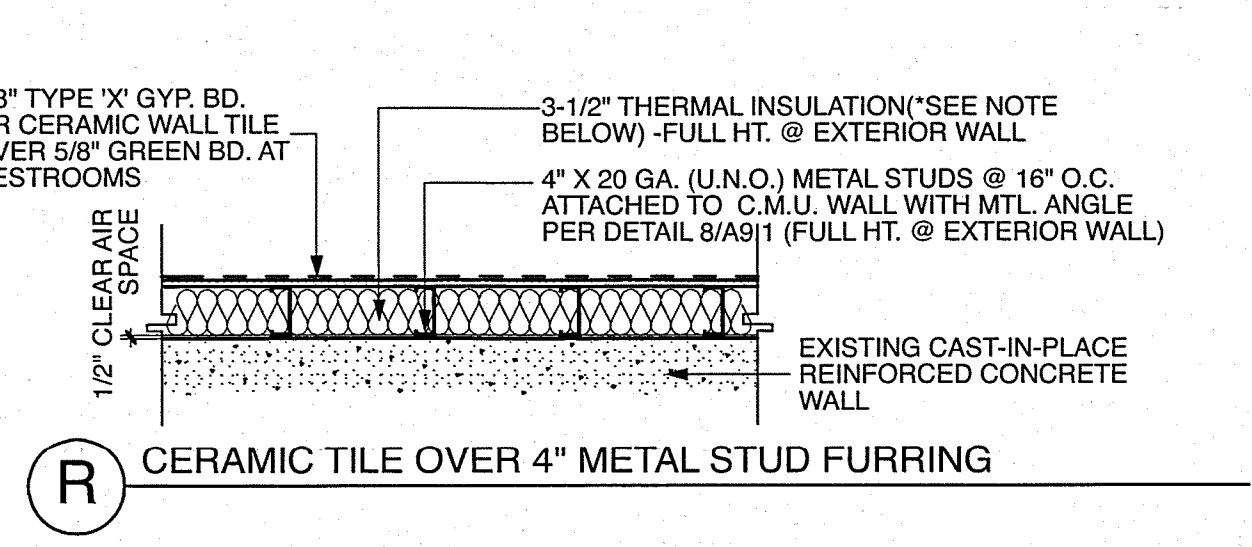
EXIST. WOOD STUD PLASTER WALL TO REMAIN



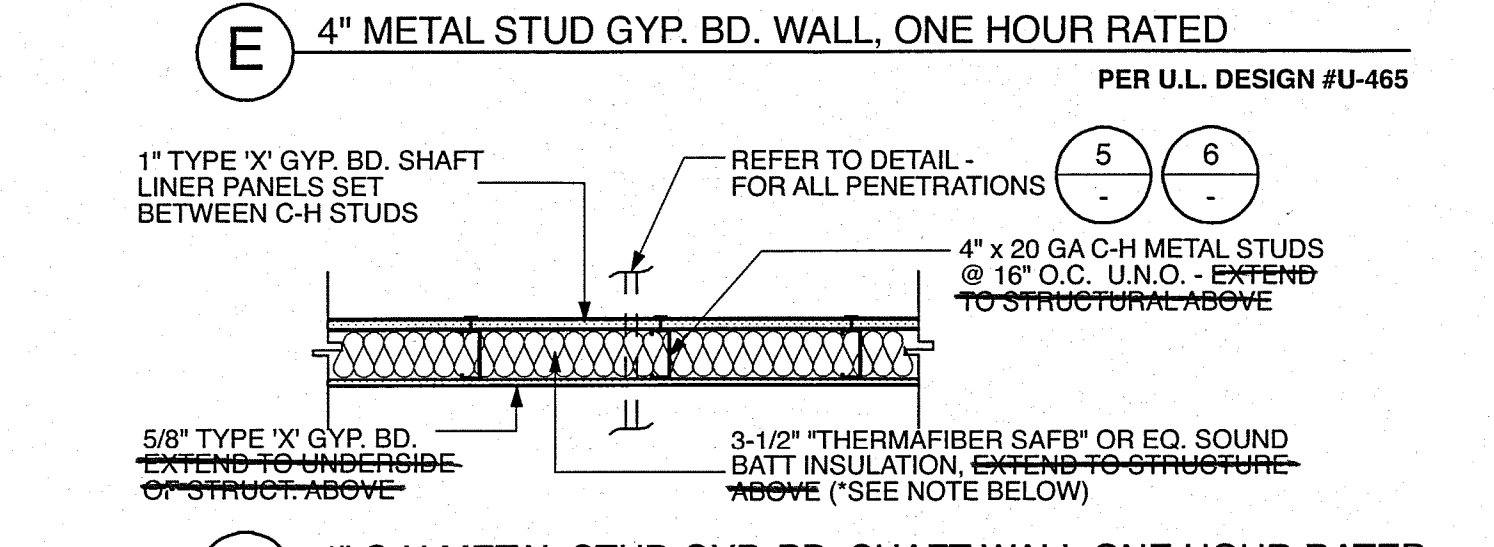
CERAMIC TILE OVER 6" METAL STUD WALL, GYP. BD. ON OTHER SIDE



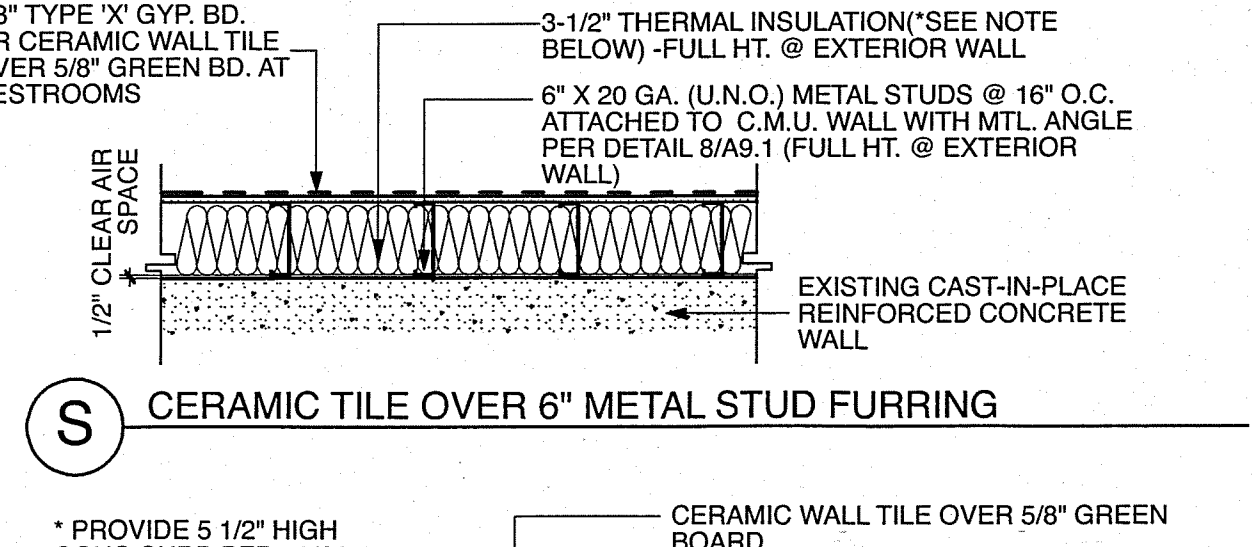
4" METAL STUD EXT. PLASTER WALL, GYP. BD. ON INT. SIDE



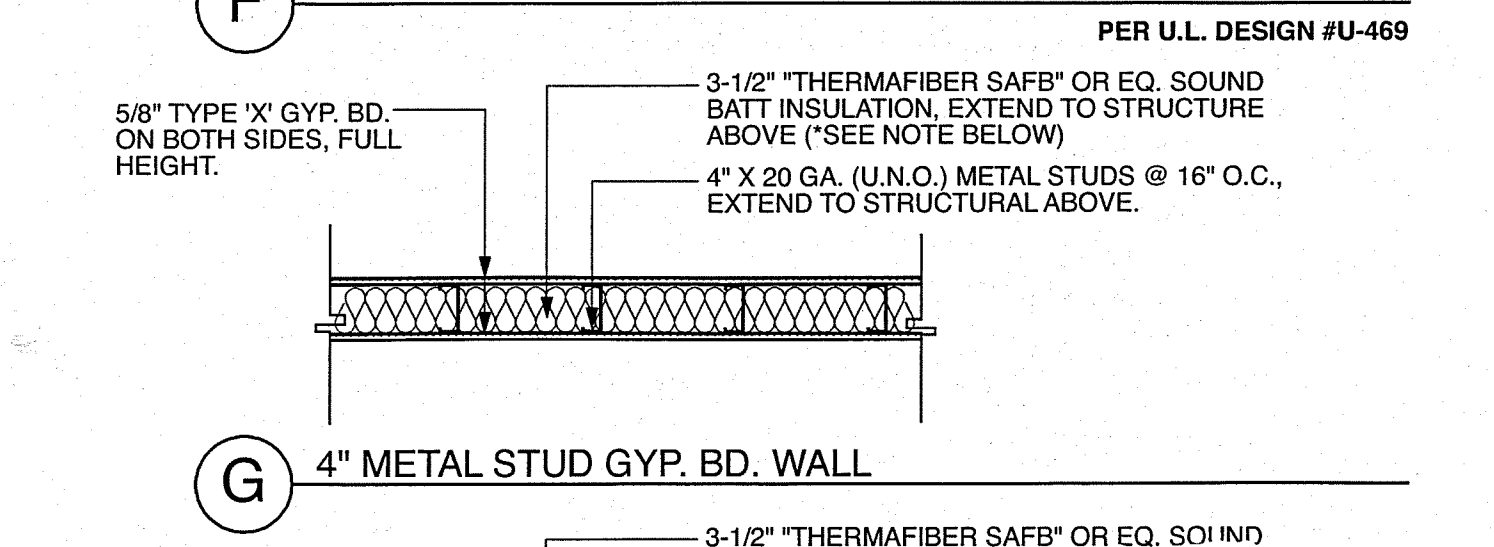
CERAMIC TILE OVER 4" METAL STUD FURRING



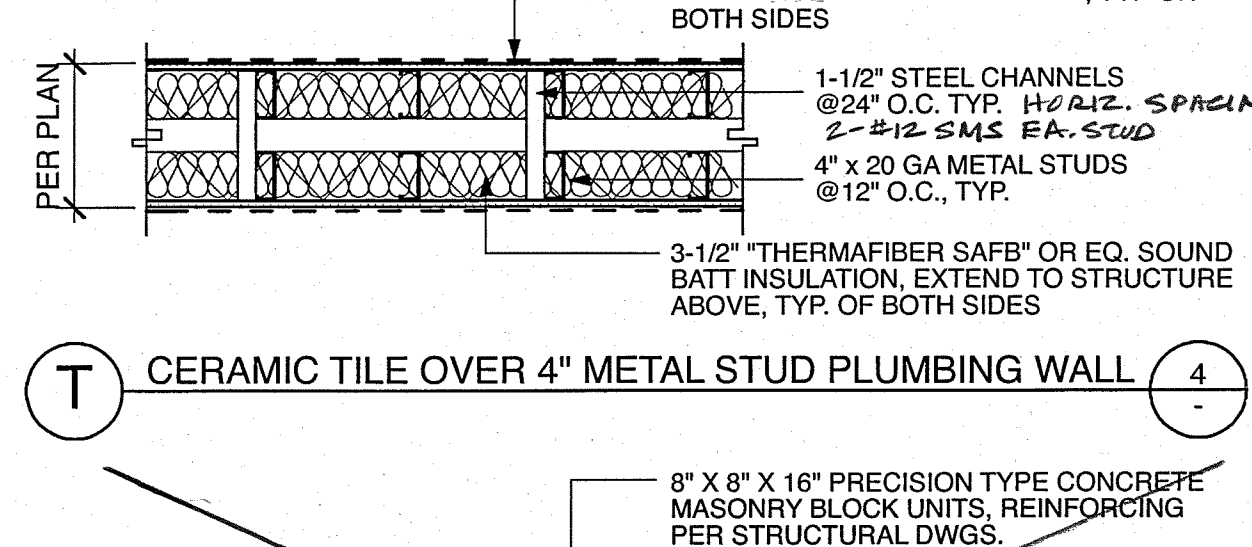
4" METAL STUD GYP. BD. WALL, ONE HOUR RATED  
PER U.L. DESIGN #U-465



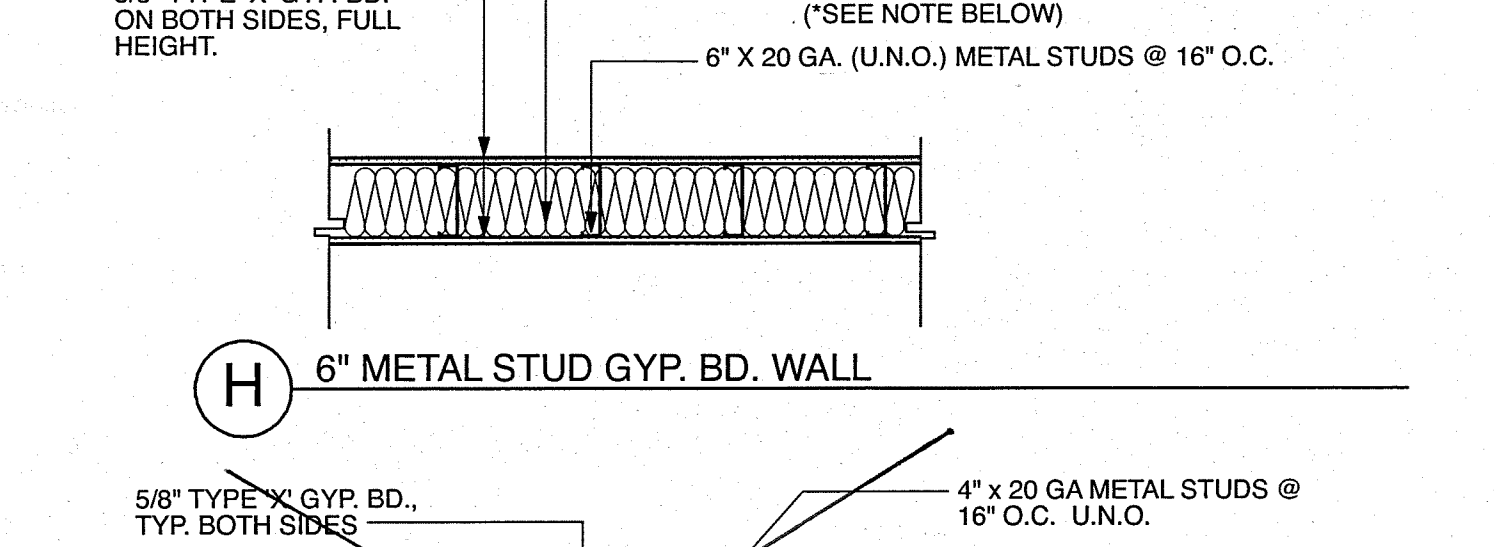
CERAMIC TILE OVER 6" METAL STUD FURRING



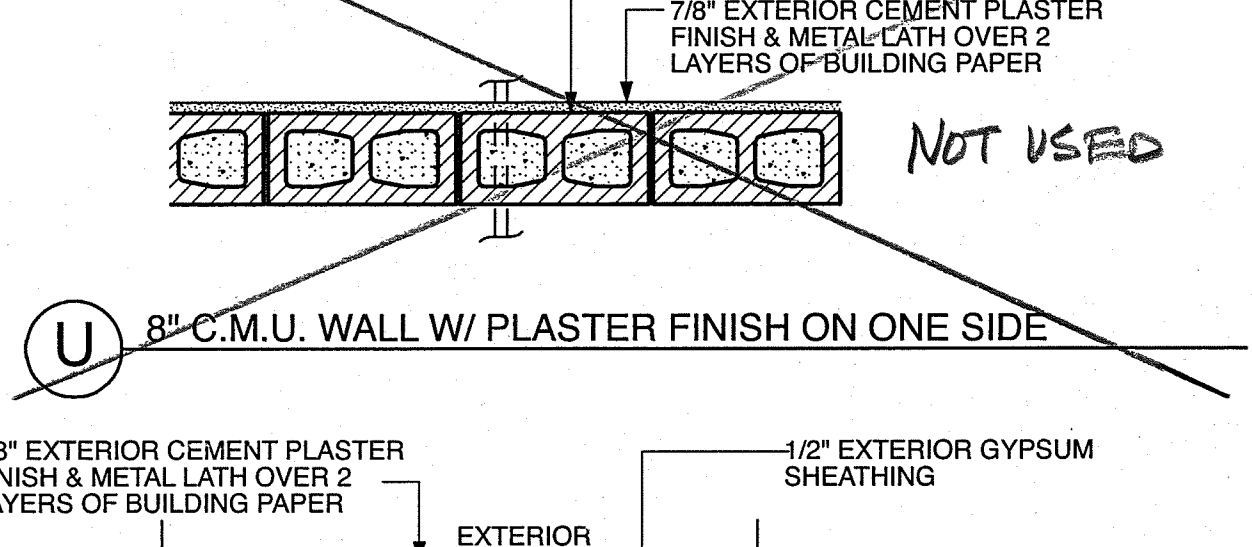
4" C-H METAL STUD GYP. BD. SHAFT WALL, ONE HOUR RATED  
PER U.L. DESIGN #U-469



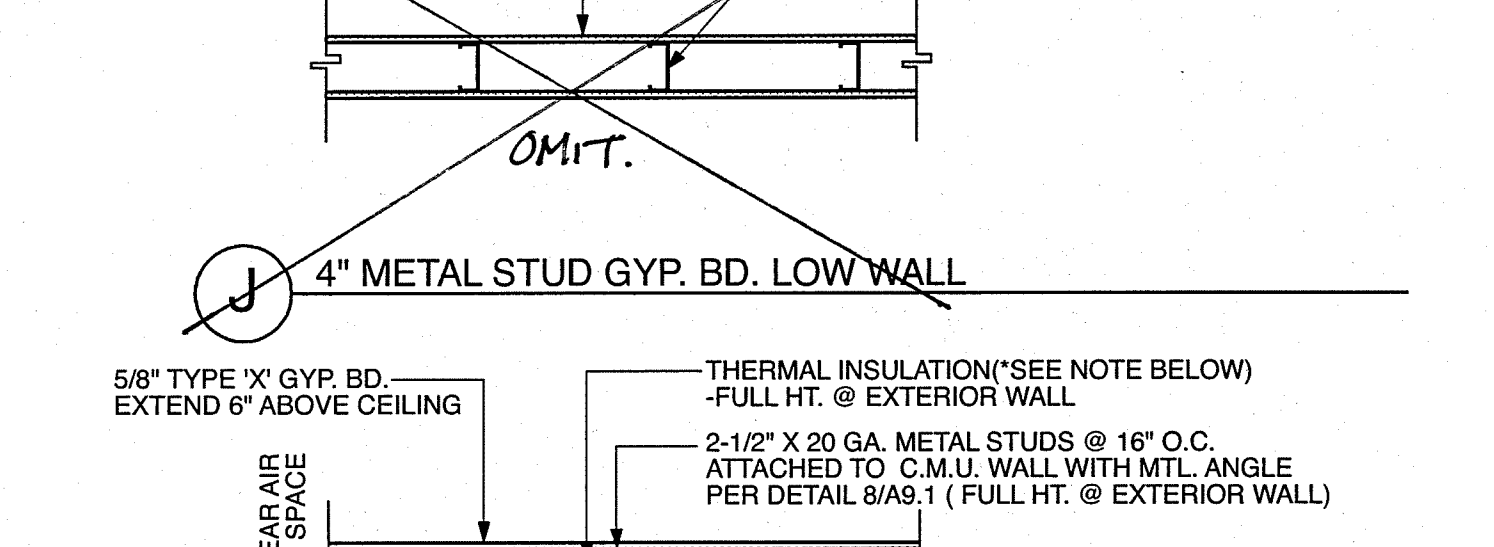
CERAMIC TILE OVER 4" METAL STUD PLUMBING WALL



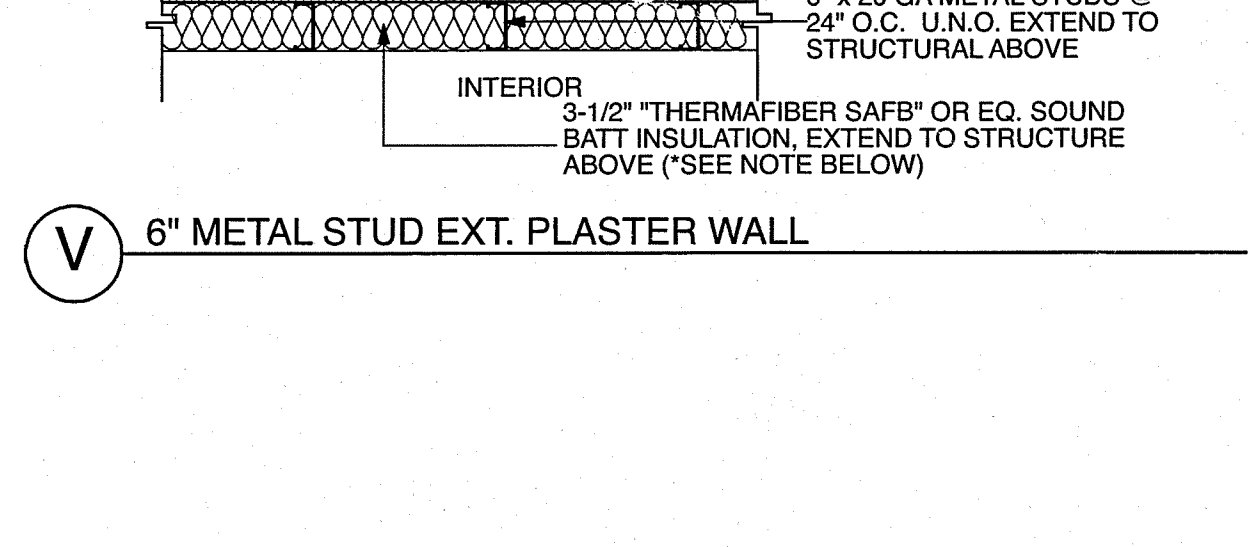
6" METAL STUD GYP. BD. WALL



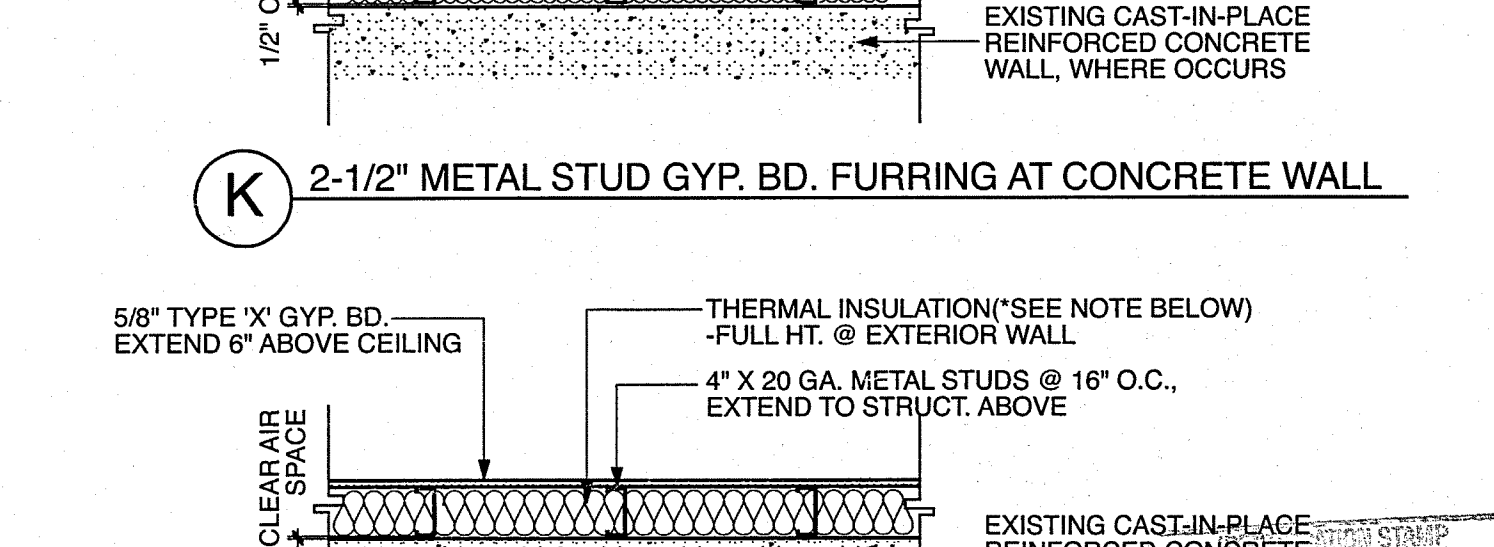
8" C.M.U. WALL W/ PLASTER FINISH ON ONE SIDE  
NOT USED



4" METAL STUD GYP. BD. LOW WALL



6" METAL STUD EXT. PLASTER WALL



2-1/2" METAL STUD GYP. BD. FURRING AT CONCRETE WALL

NOTE 1: BUILDING INSULATION MATERIALS SHALL NOT EXCEED FLAME SPREAD RATING OF 25 AND SMOKE DENSITY OF 450 PER CBC 707.3.  
NOTE 2: ALL WALLS, REGARDLESS OF FIRE RATING OR U.L. ASSEMBLY NUMBER, SHALL RUN FULL HT. TO UNDERSIDE OF STRUCT. AND GYP. BD. SHALL RUN FULL HT. ON BOTH SIDES, UNLESS OTHERWISE SHOWN.  
NOTE 3: SEE A9.7 FOR STUD SPACING AND 20 GA. AT CABINETS TYP.

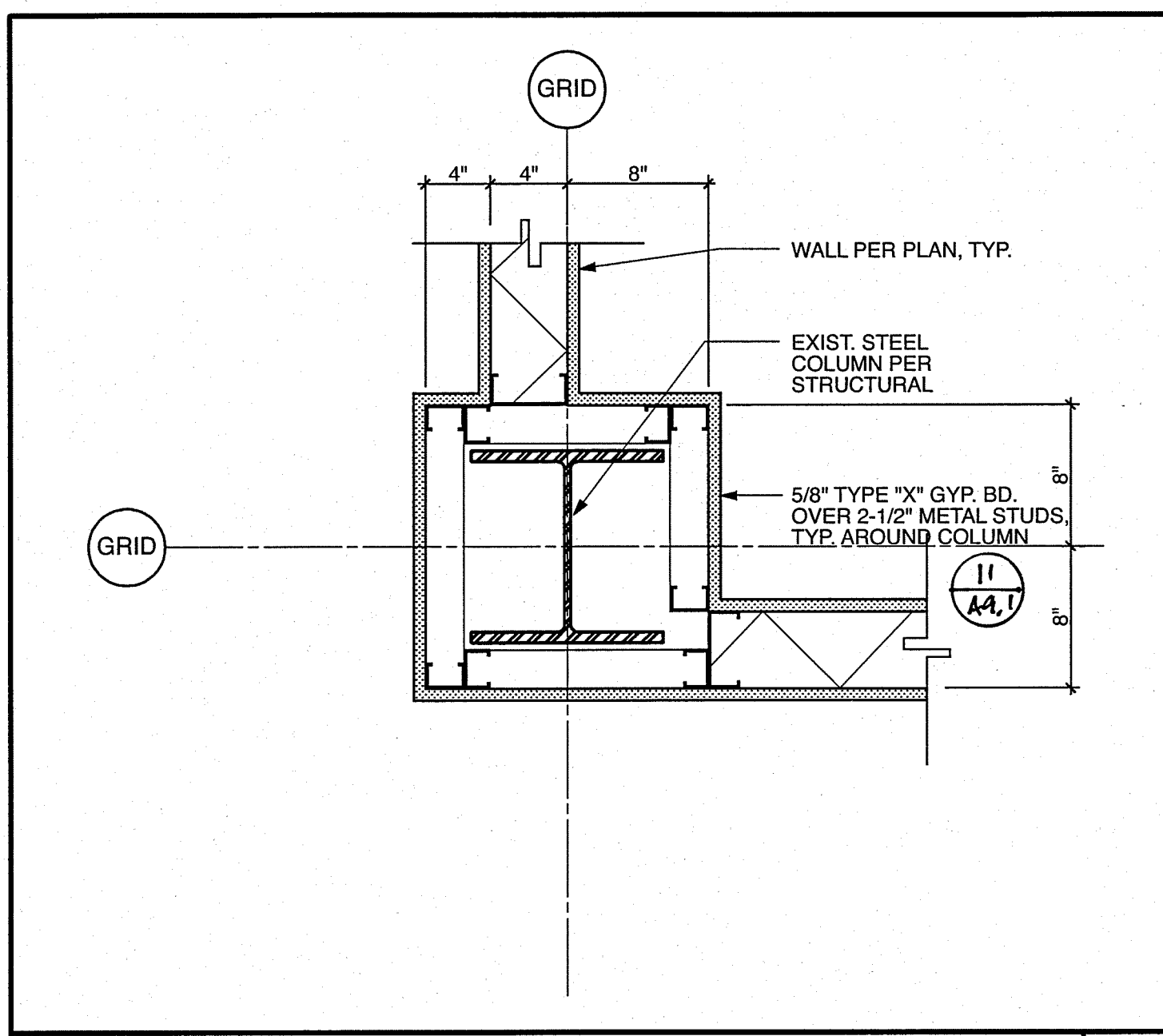
WALL TYPES  
NOT TO SCALE  
DATE: 07-06-07  
DRAWN: KK, YCL  
CHECKED: JVT  
SHEET NO. 110562  
DATE: APR 07 2011

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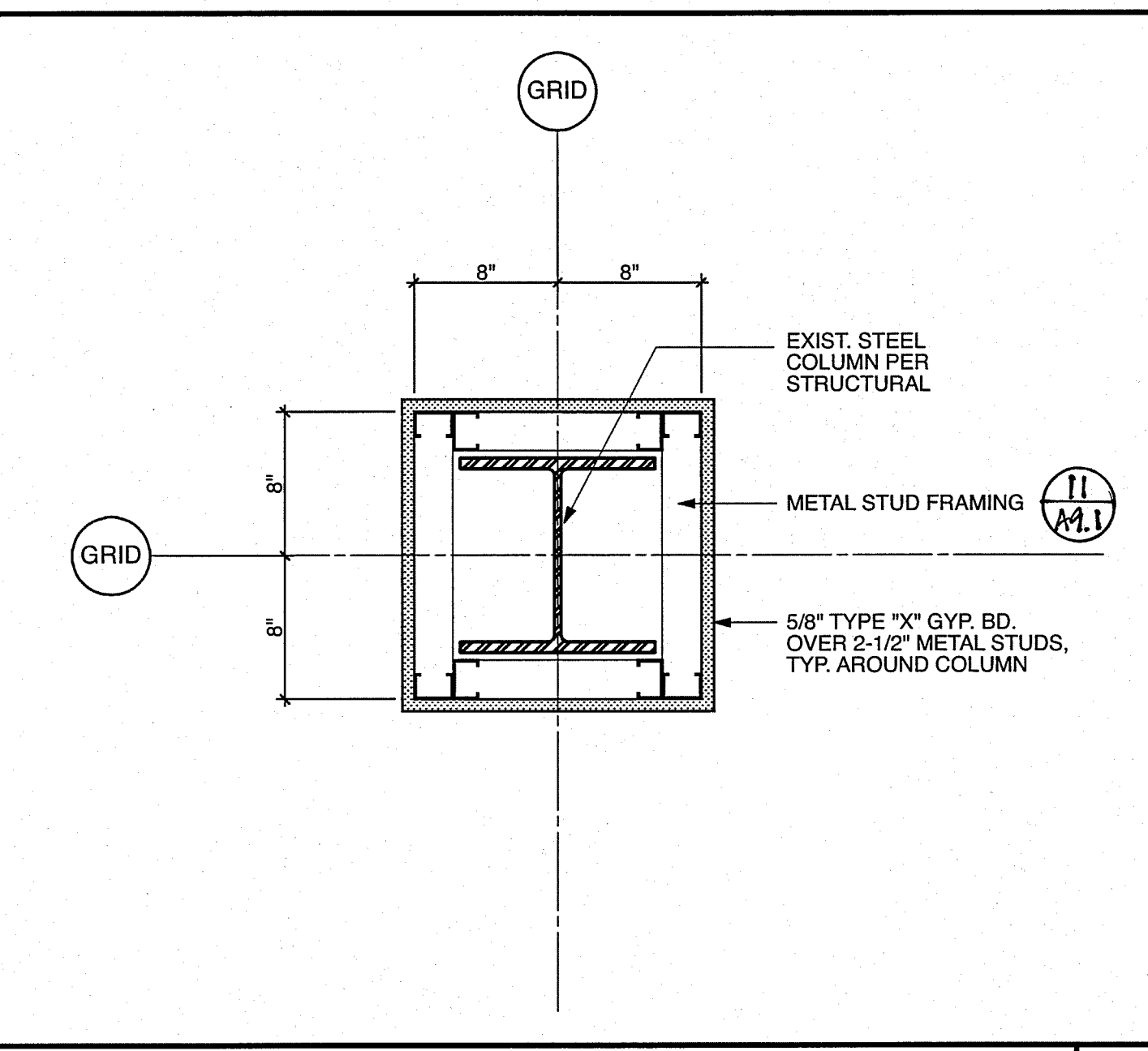
JULY R. TITTE, AIA, ARCHITECT C-12955  
JAMES G. SPENCER, AIA, ARCHITECT C-6455  
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CLAYPOOL BUILDING RECONSTRUCTION  
PALO VERDE COLLEGE, NEEDLES CENTER  
PALO VERDE COMMUNITY COLLEGE DISTRICT  
725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92365

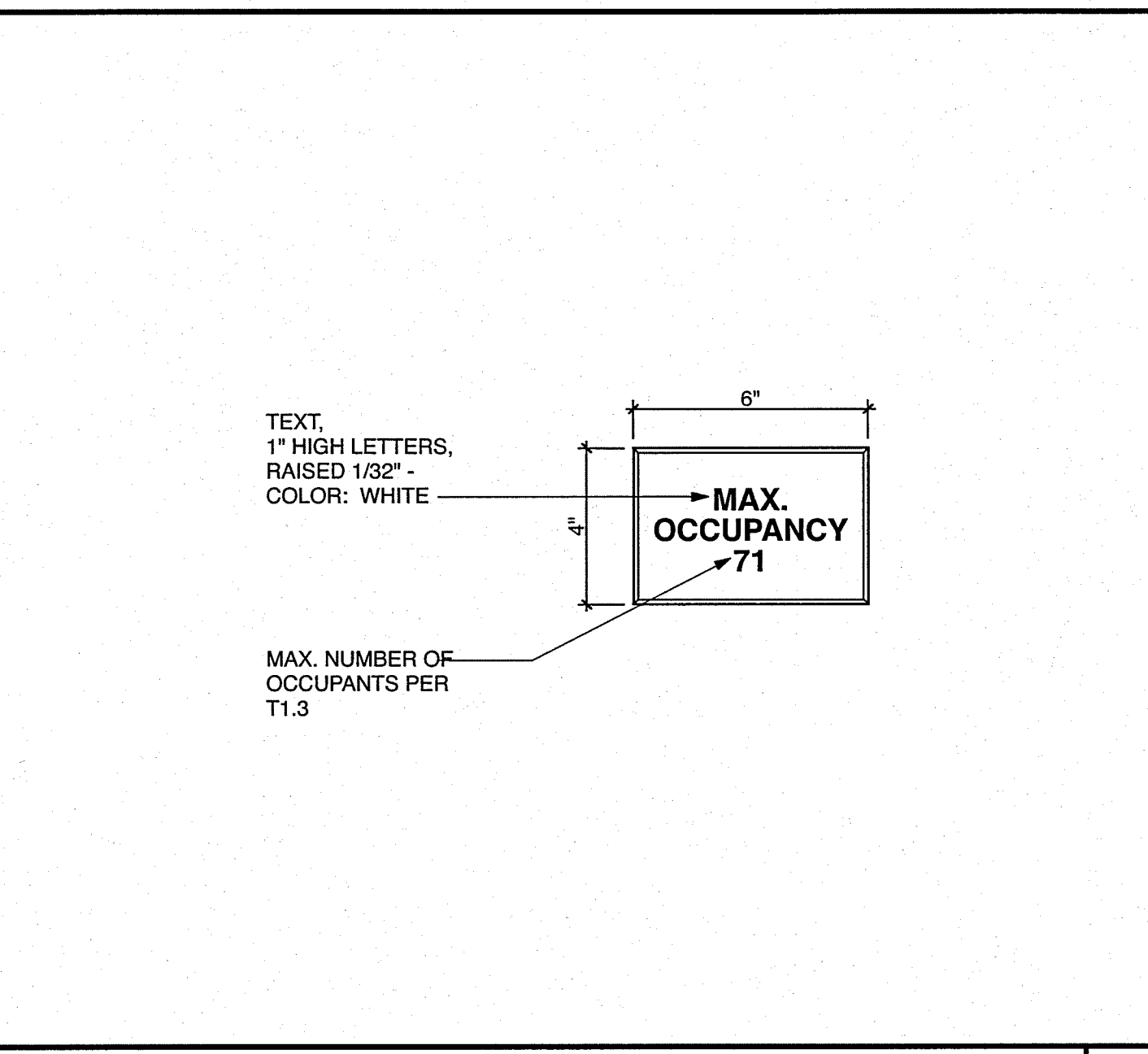
WALL TYPES & COLUMN DETAILS  
DATE: 07-06-07  
DRAWN: KK, YCL  
CHECKED: JVT  
SHEET NO. 110562  
DATE: APR 07 2011  
SHEET OF



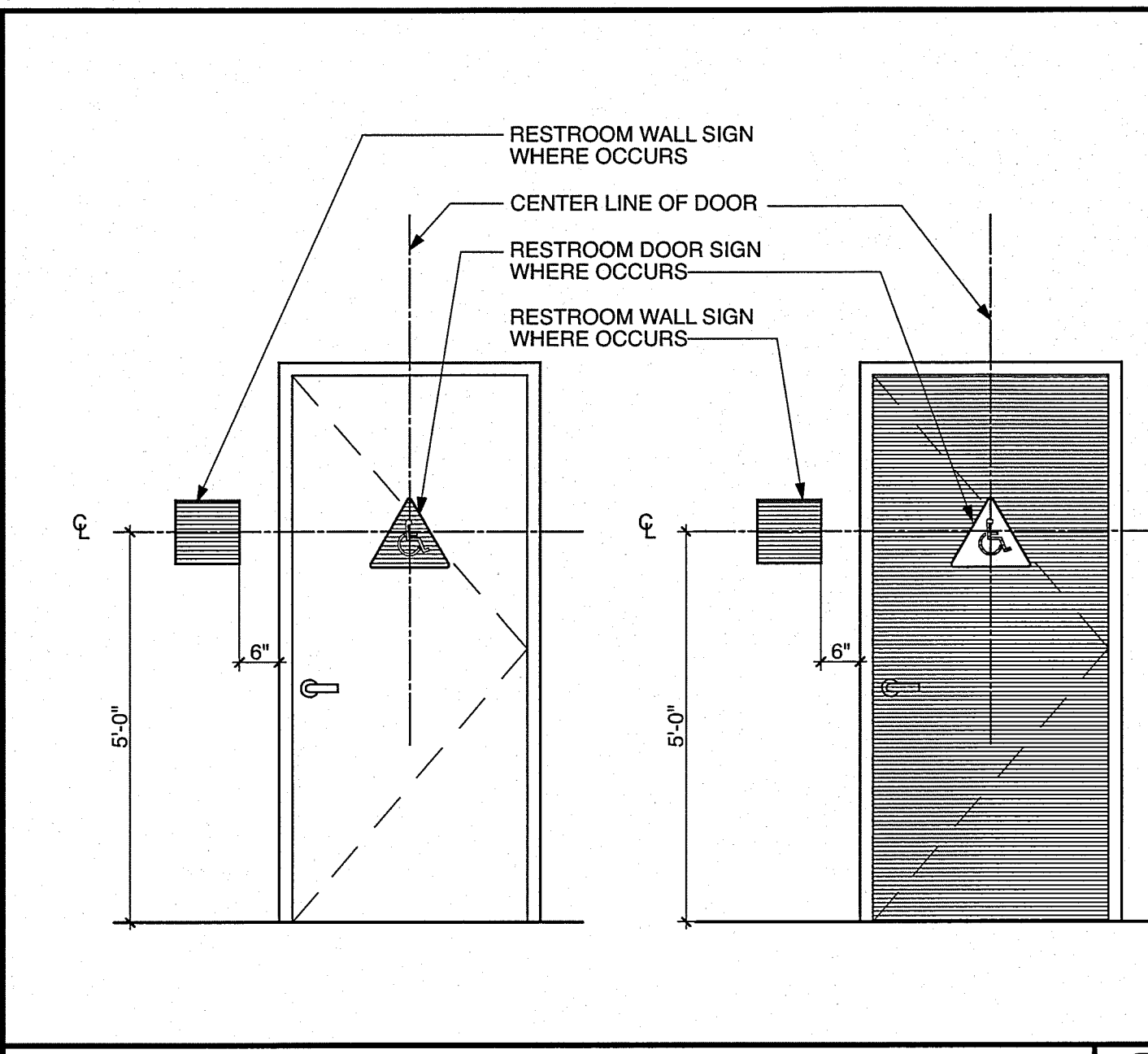
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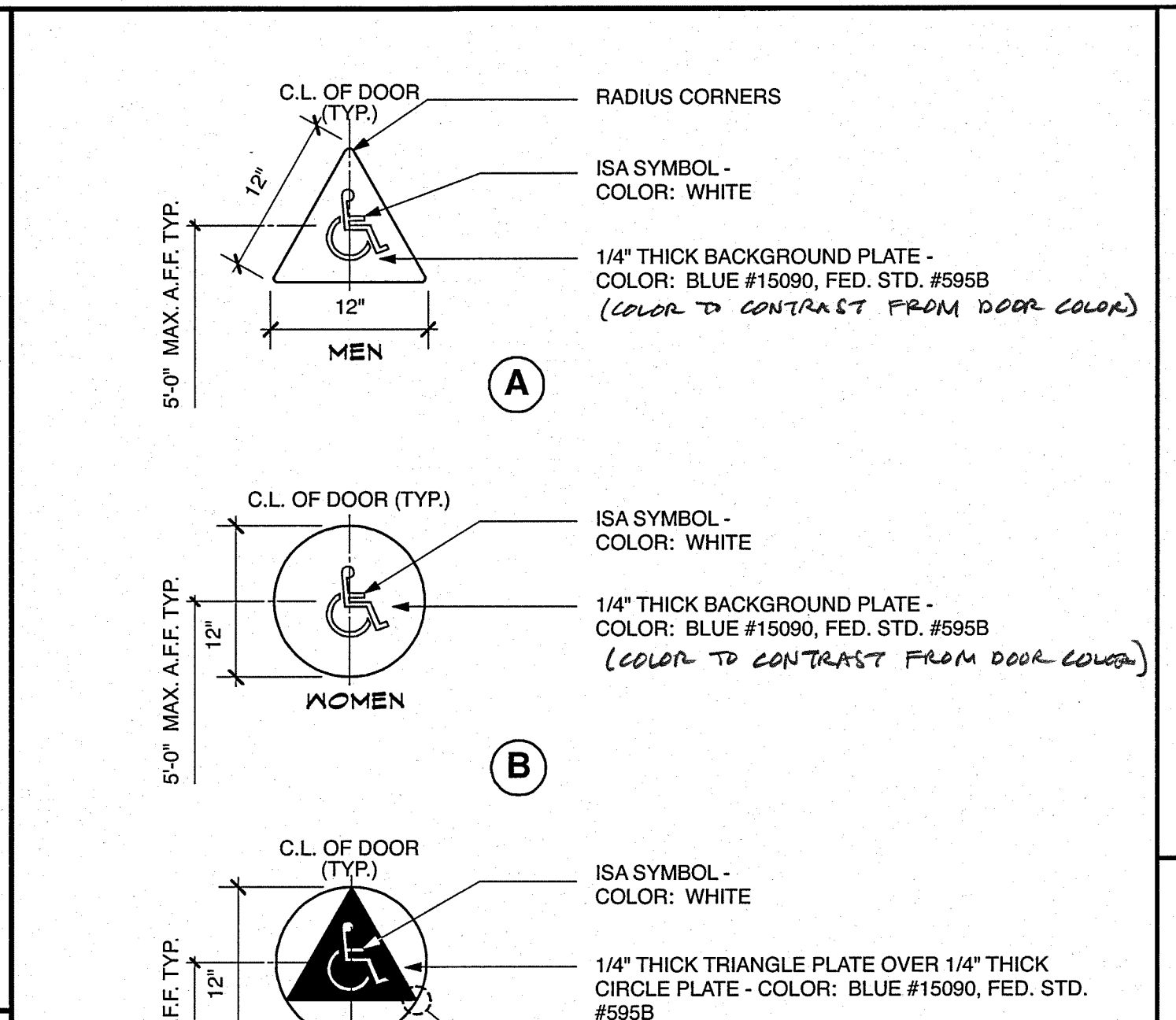
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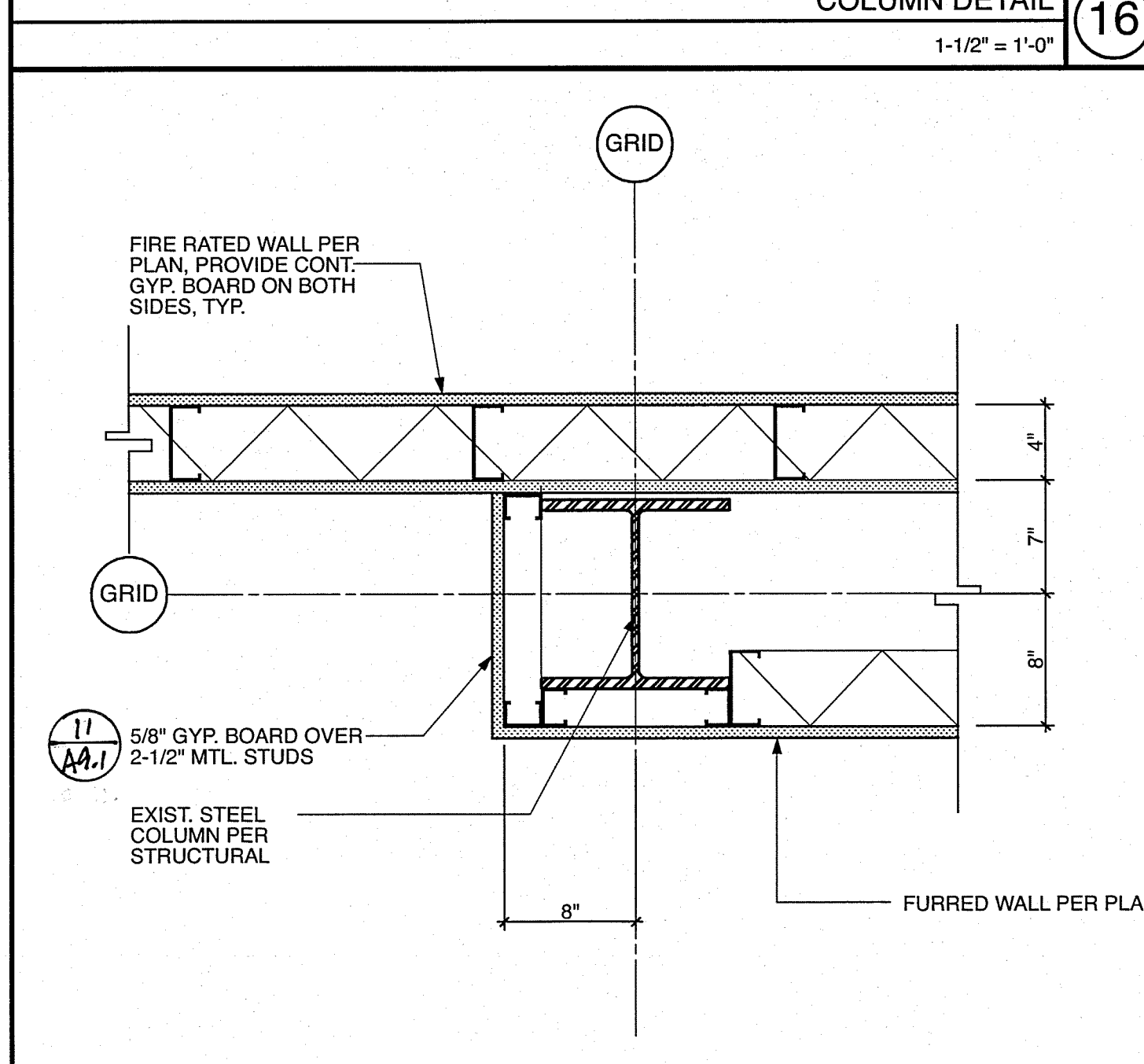
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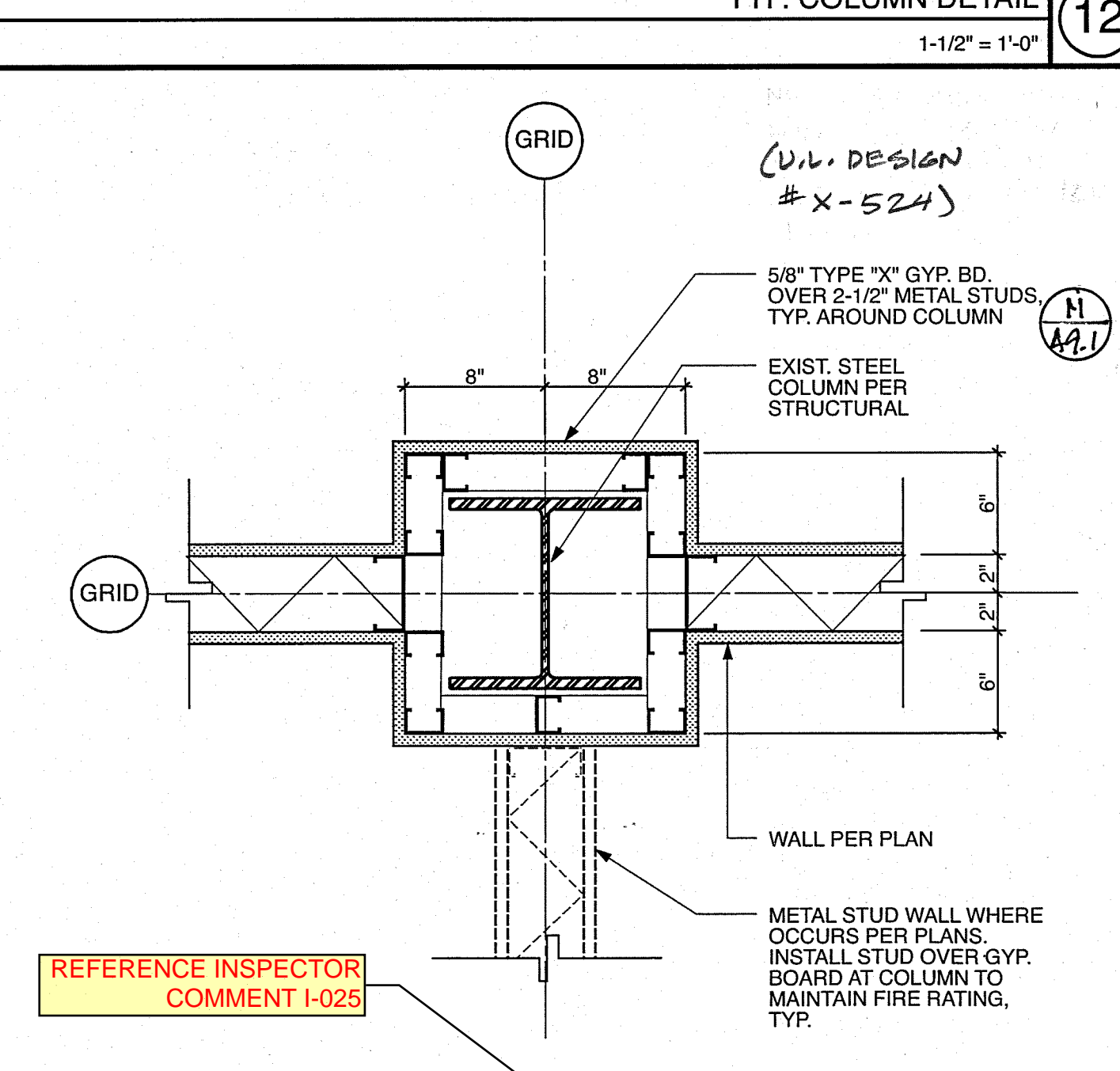
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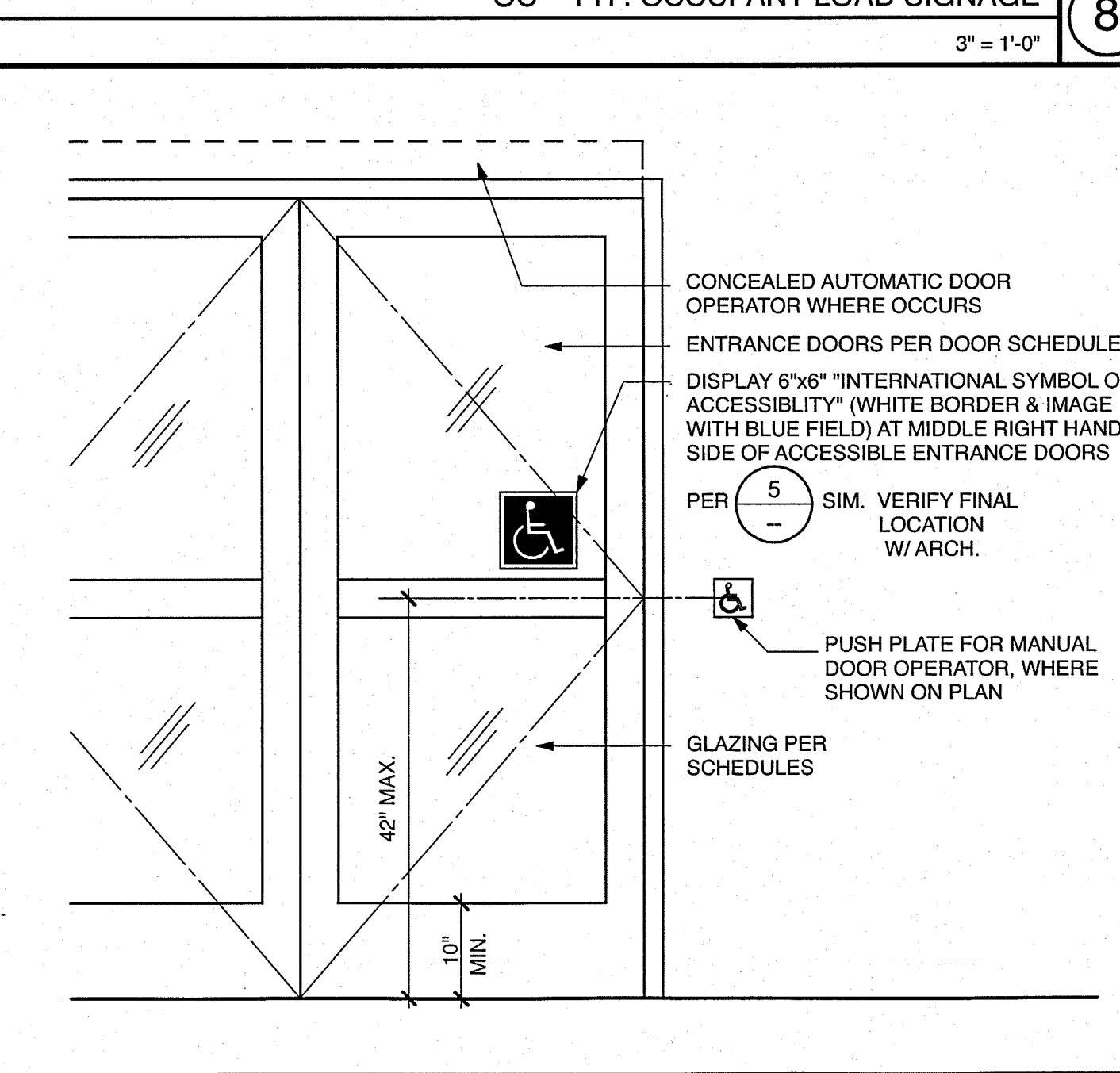
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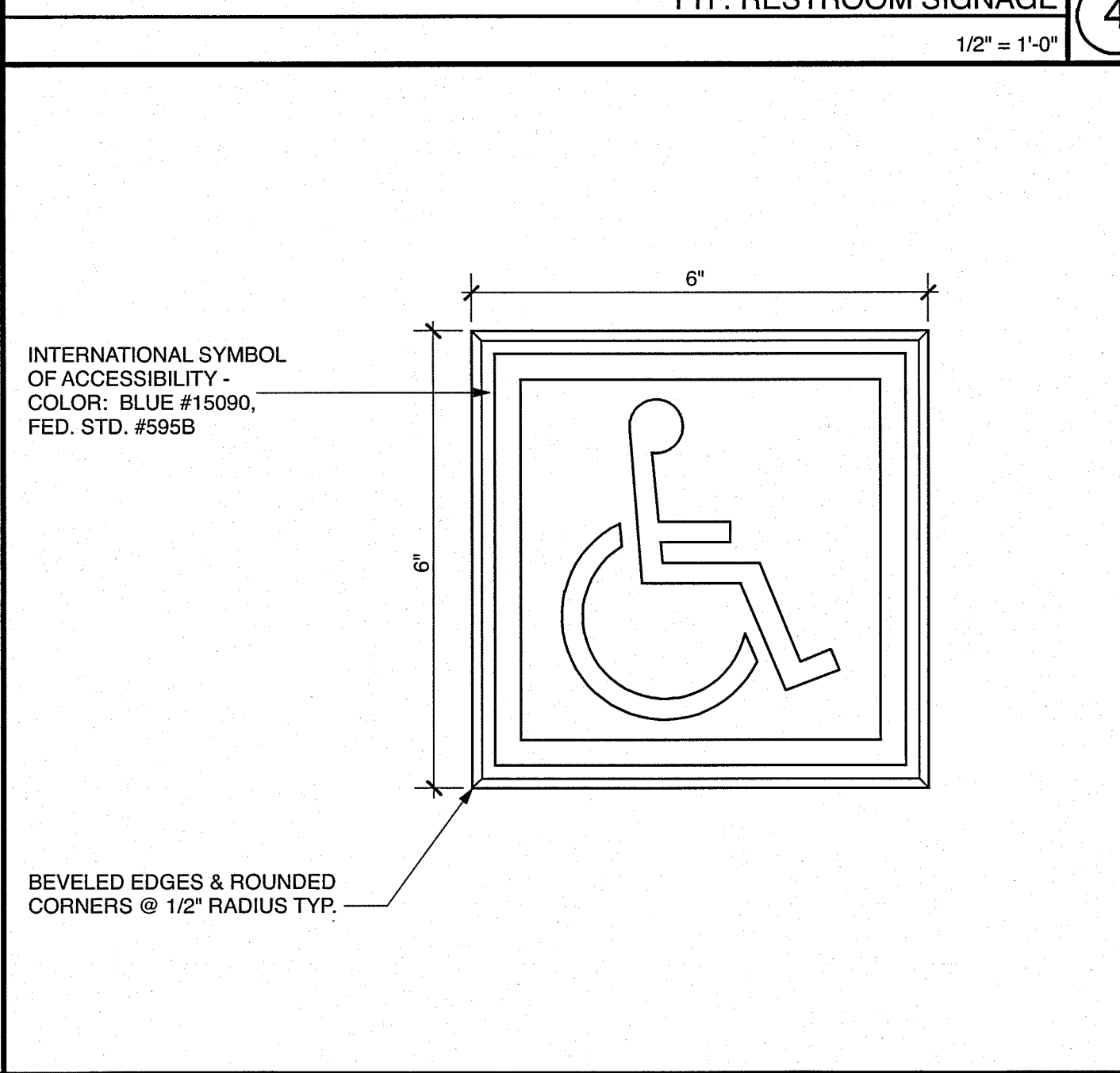
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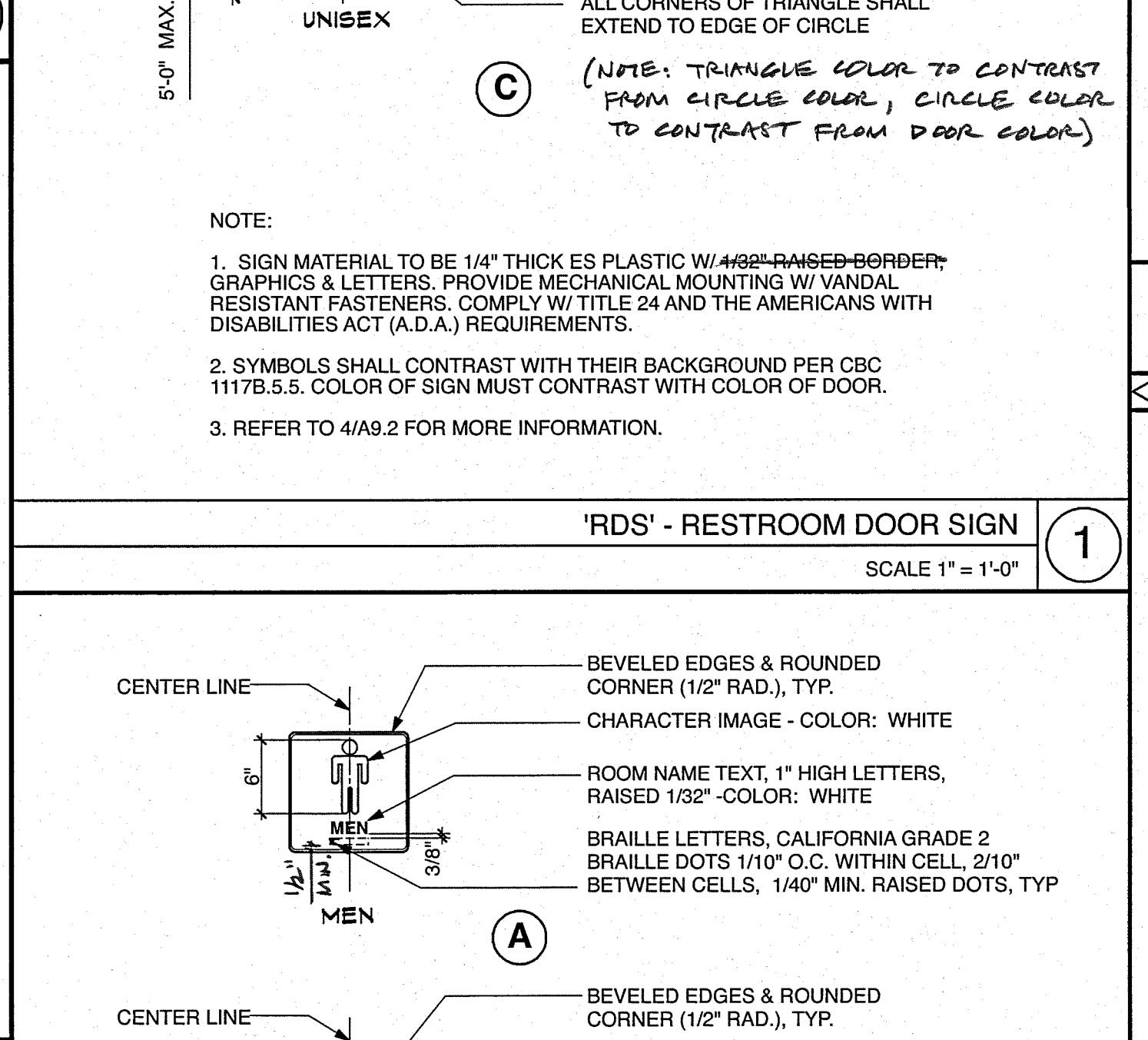
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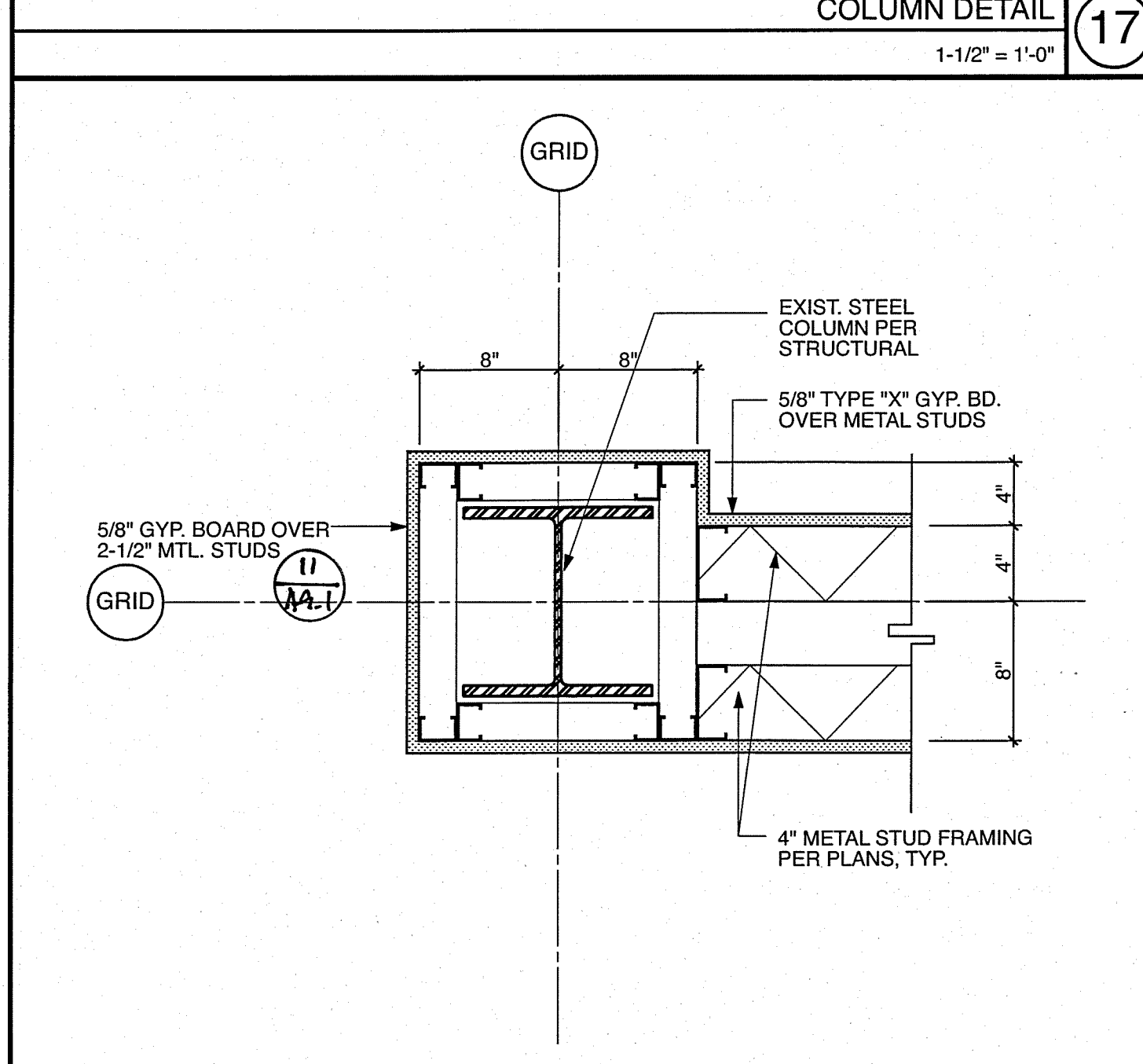
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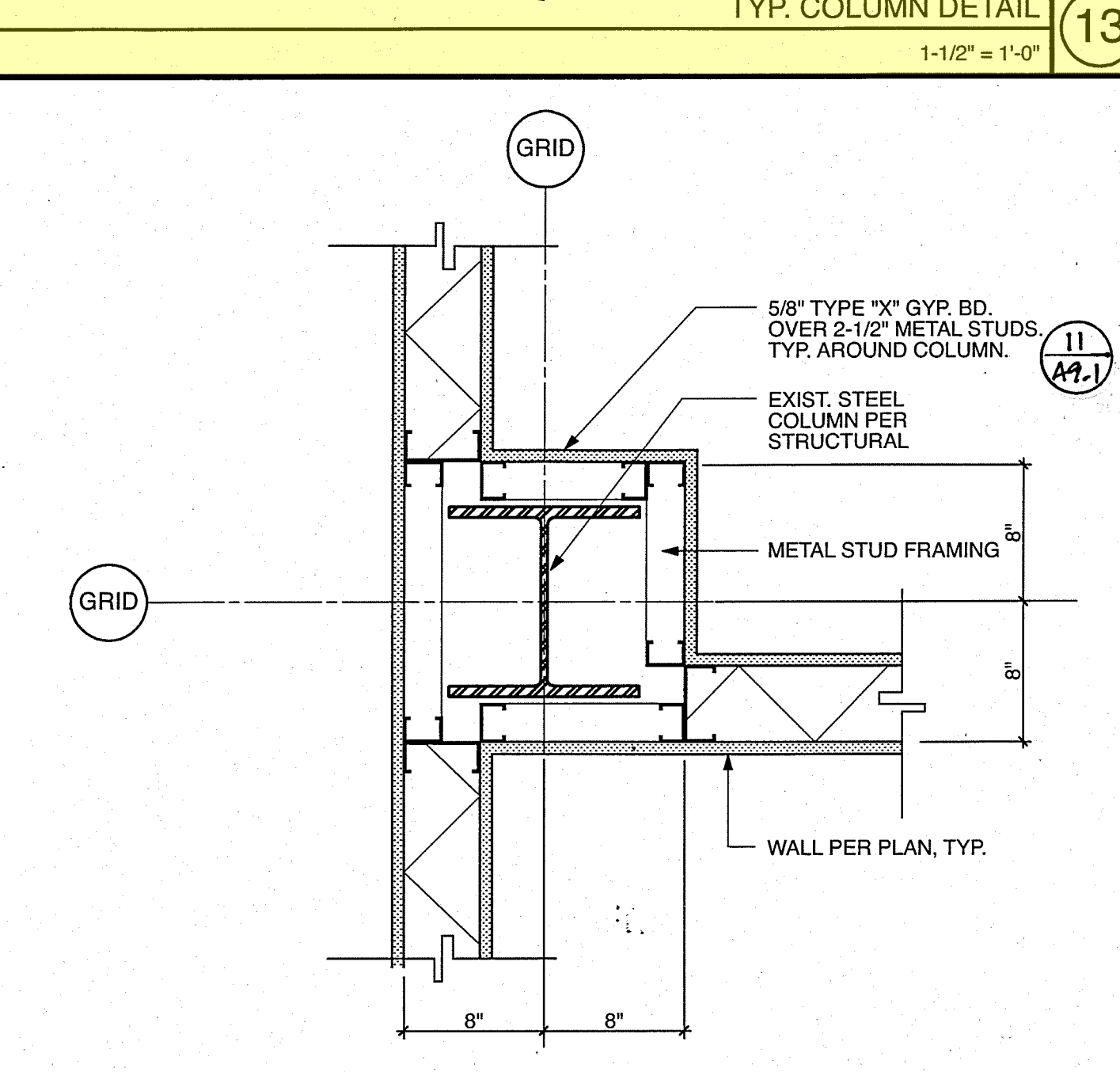
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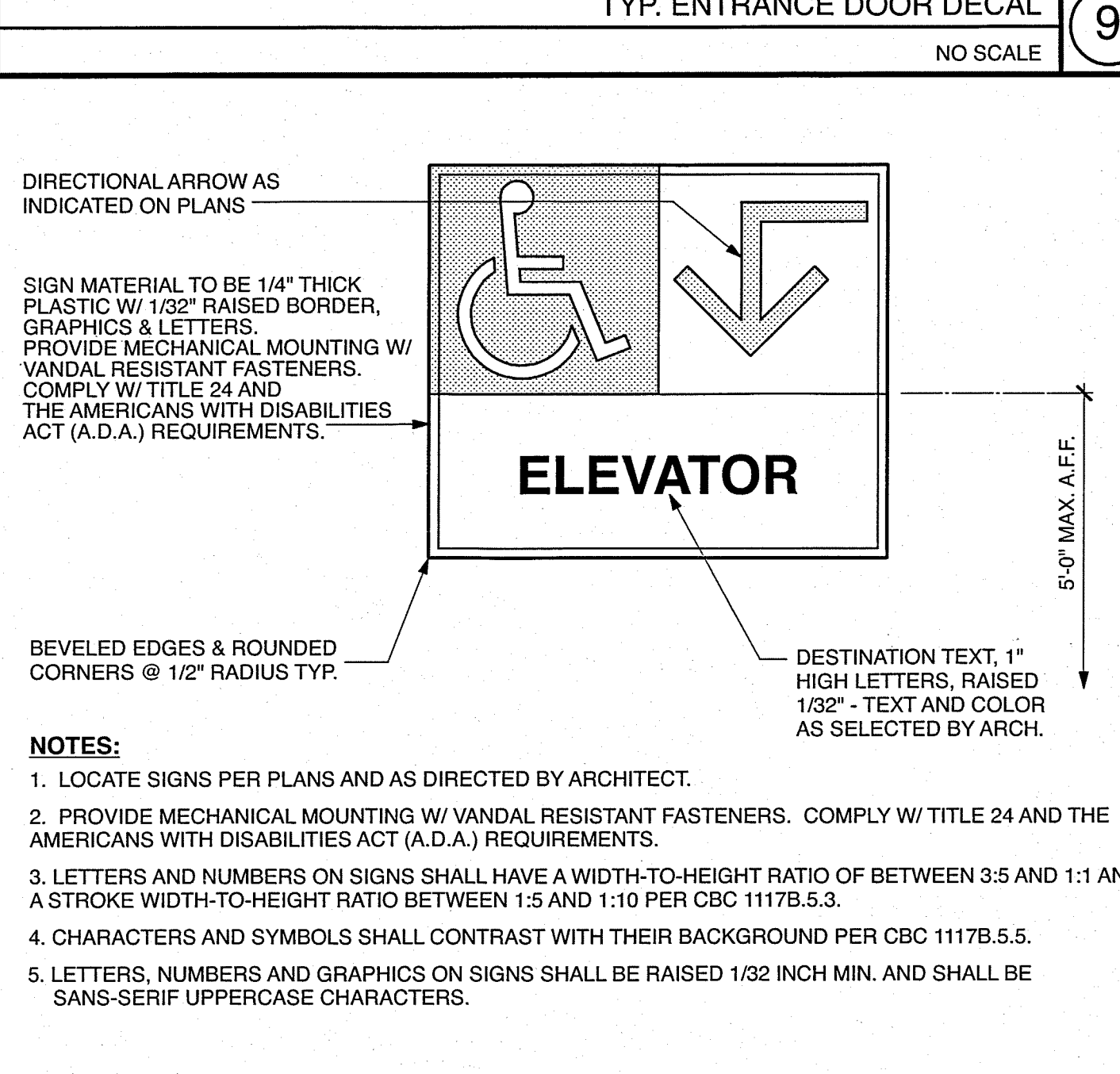
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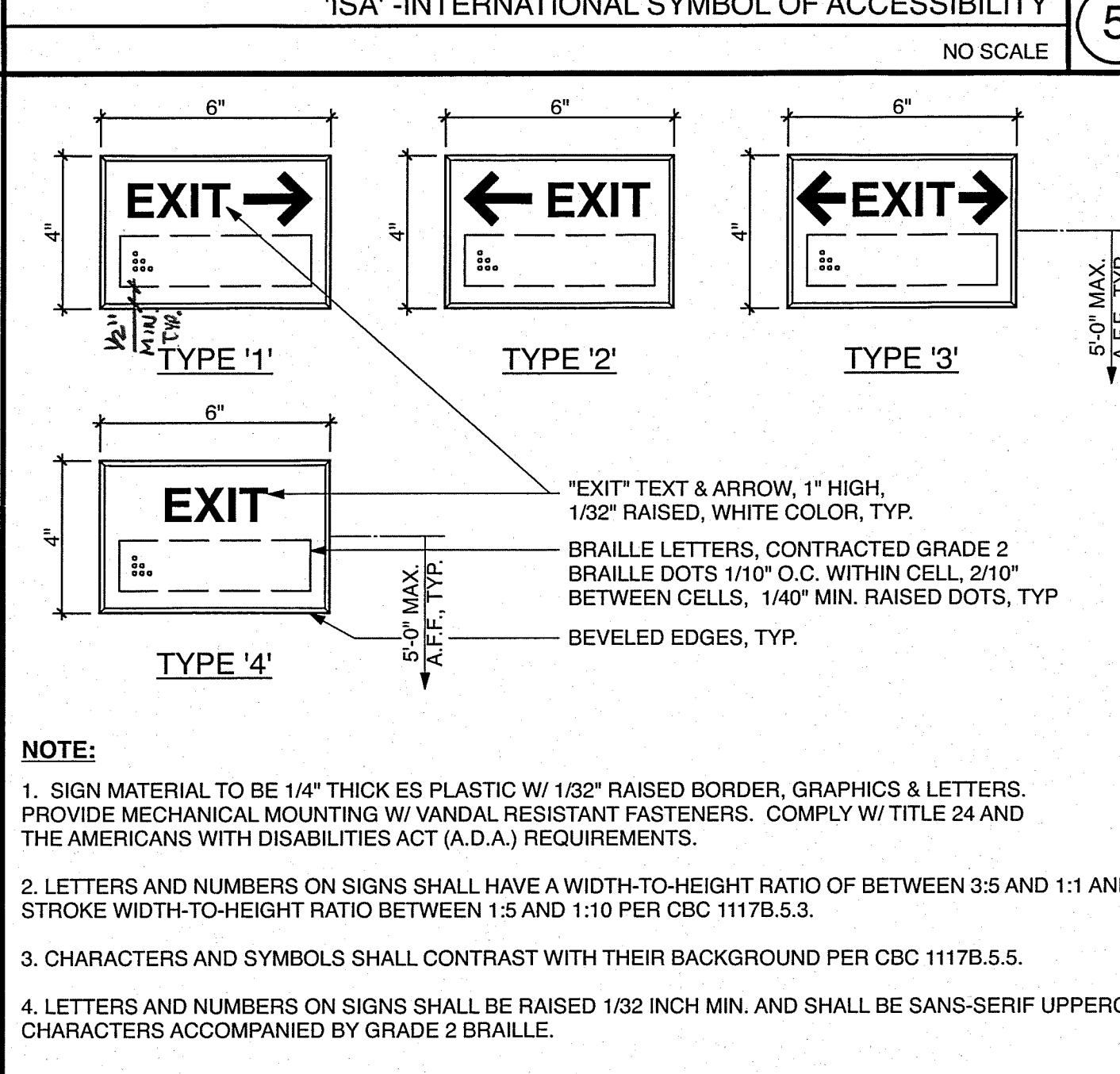
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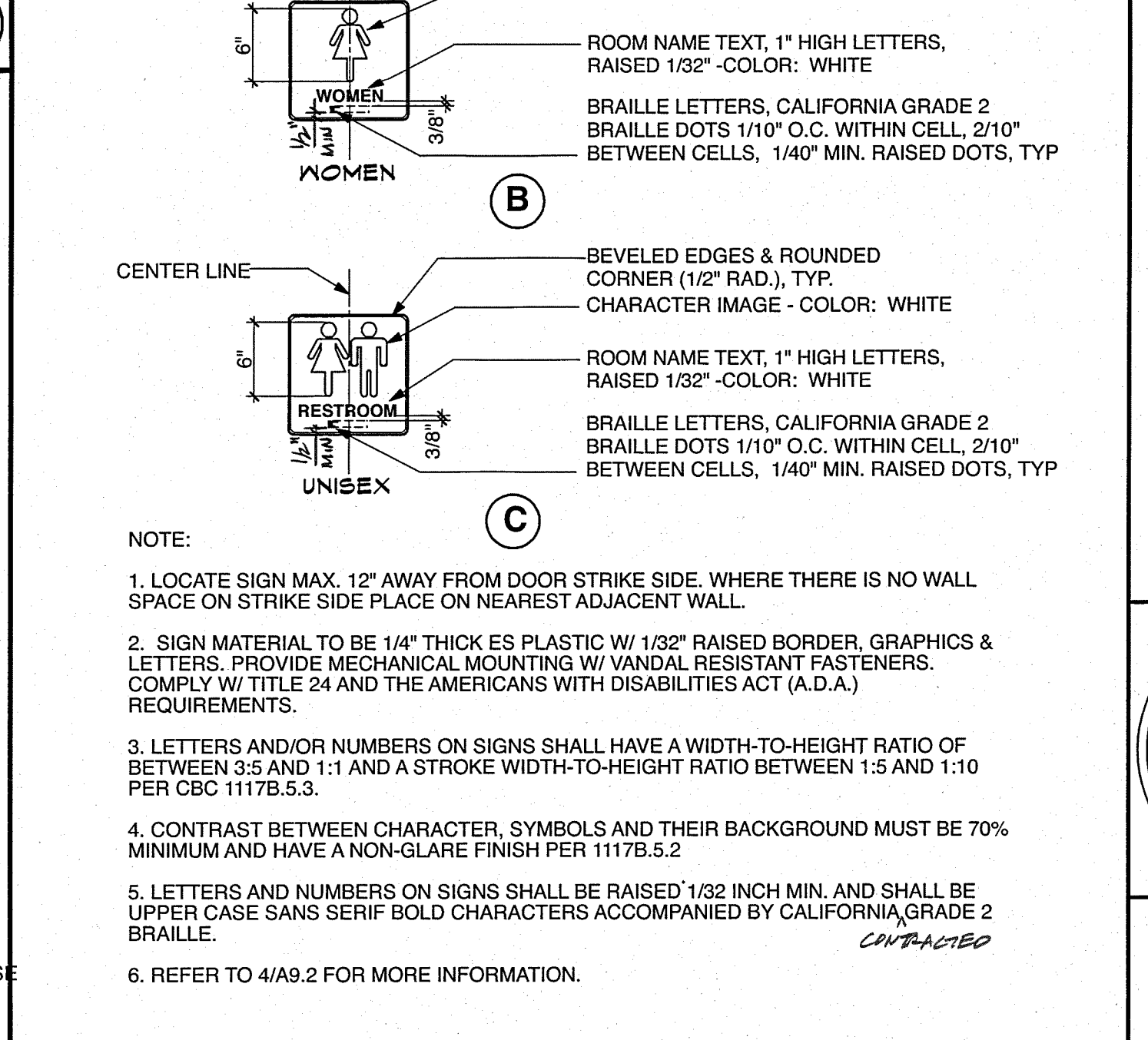
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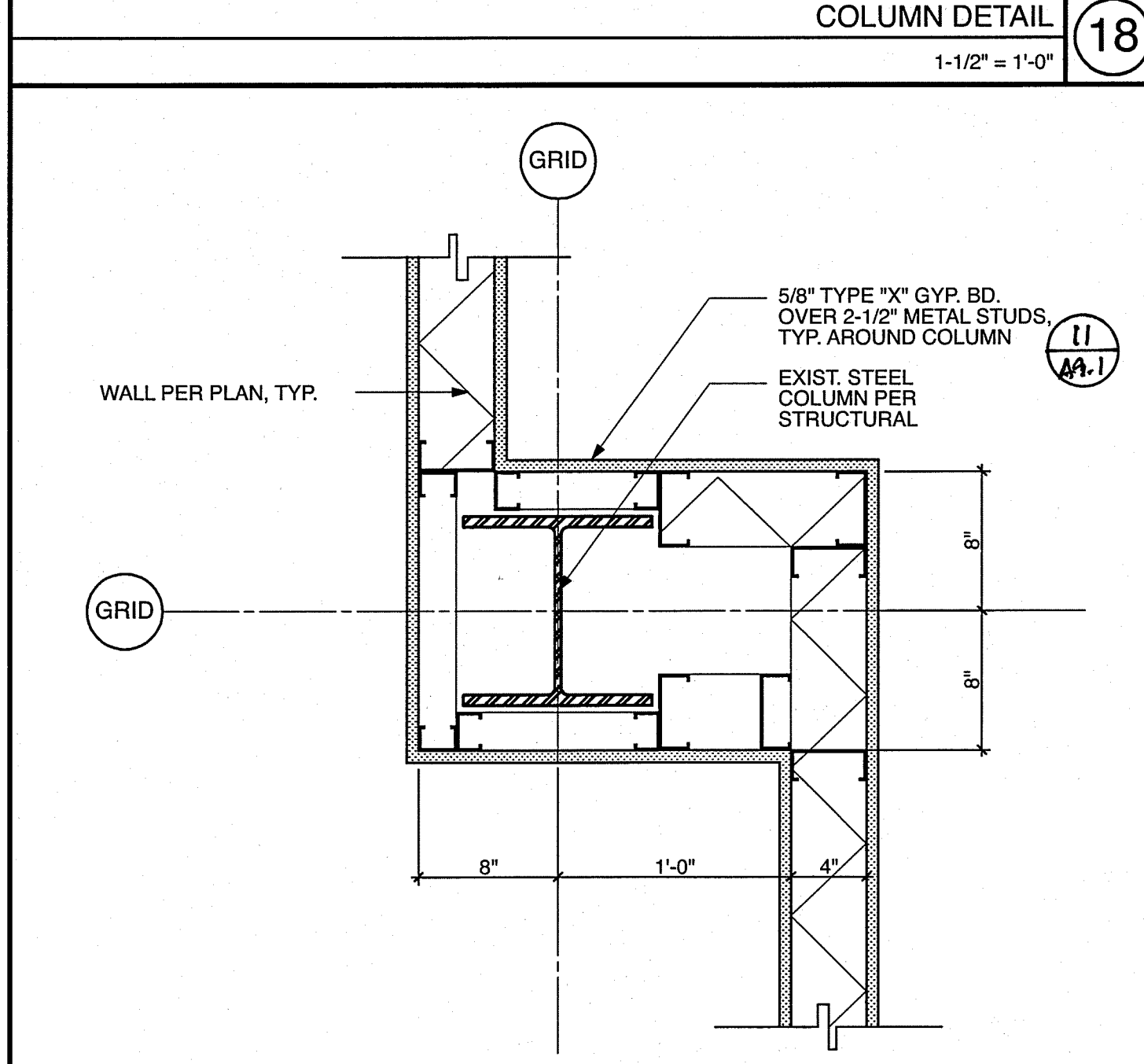
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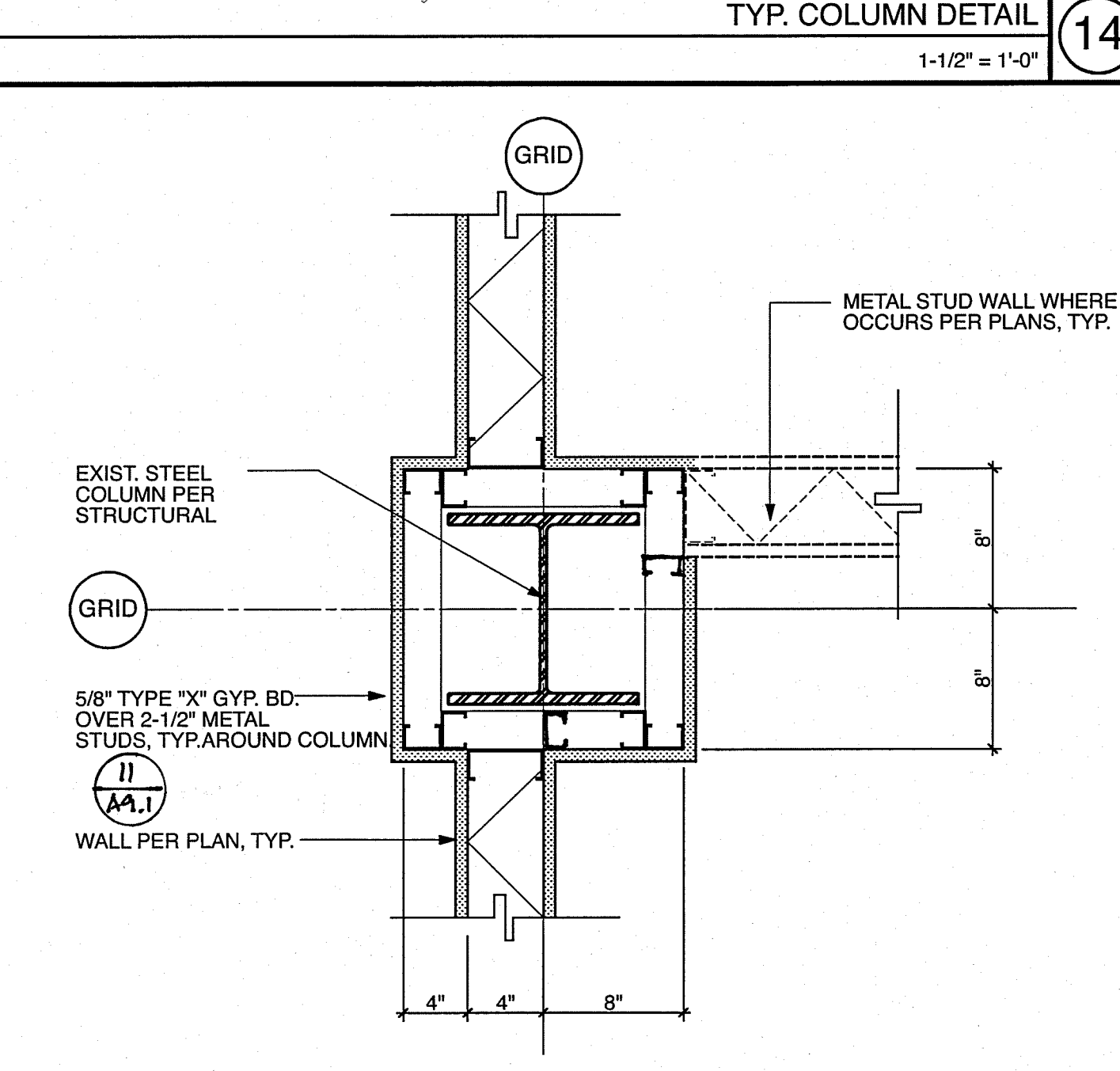
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N.T.S.



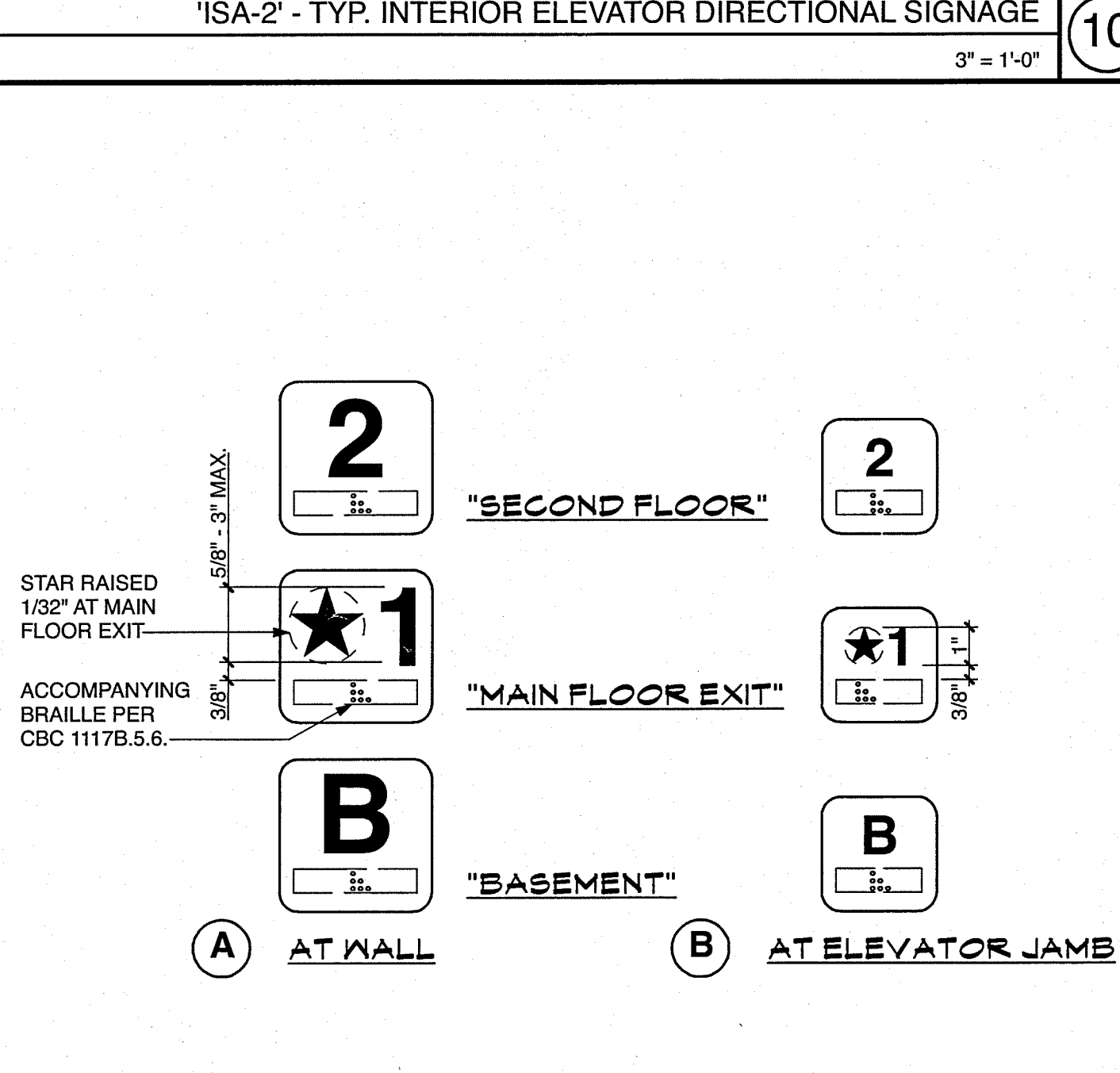
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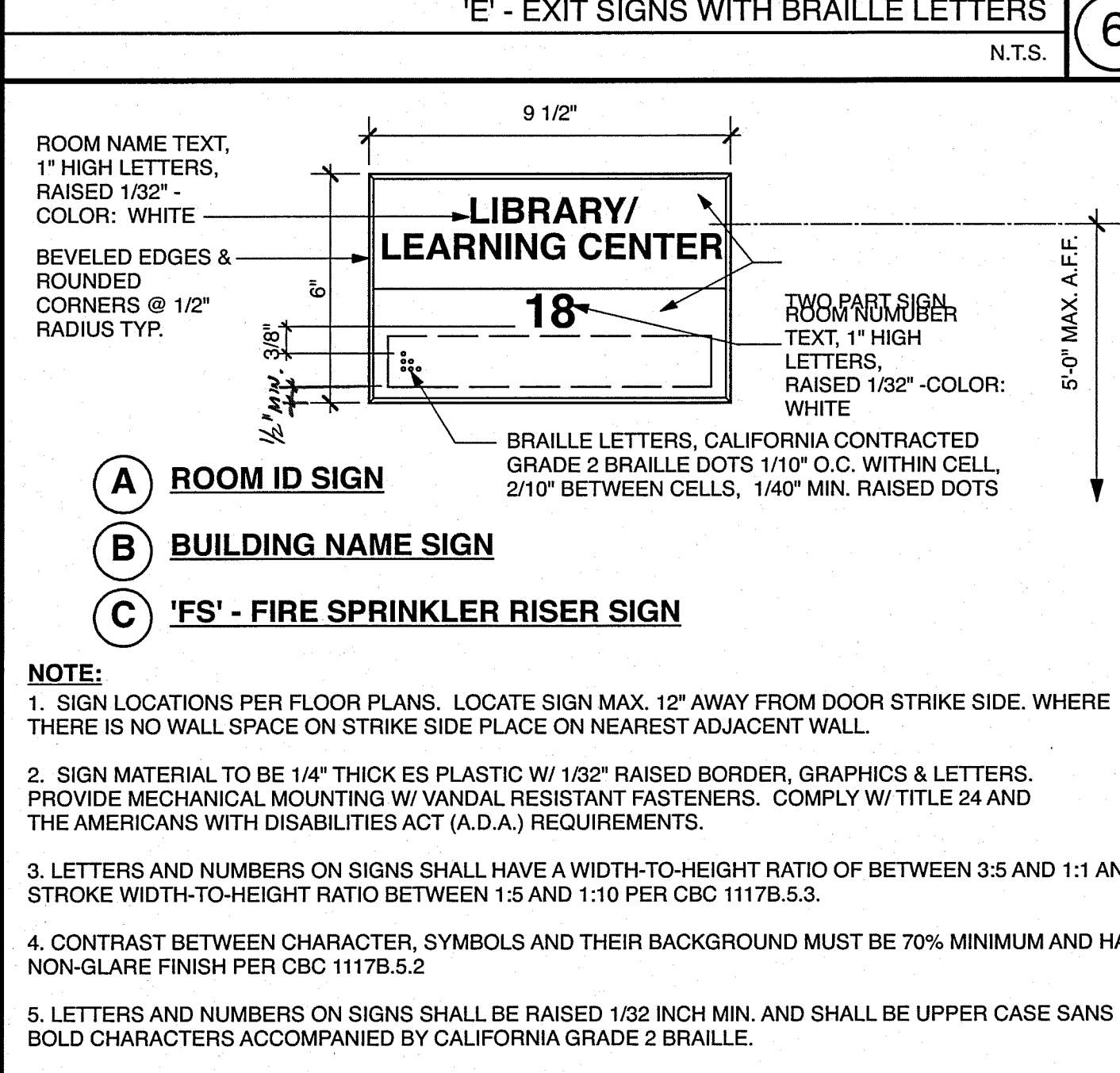
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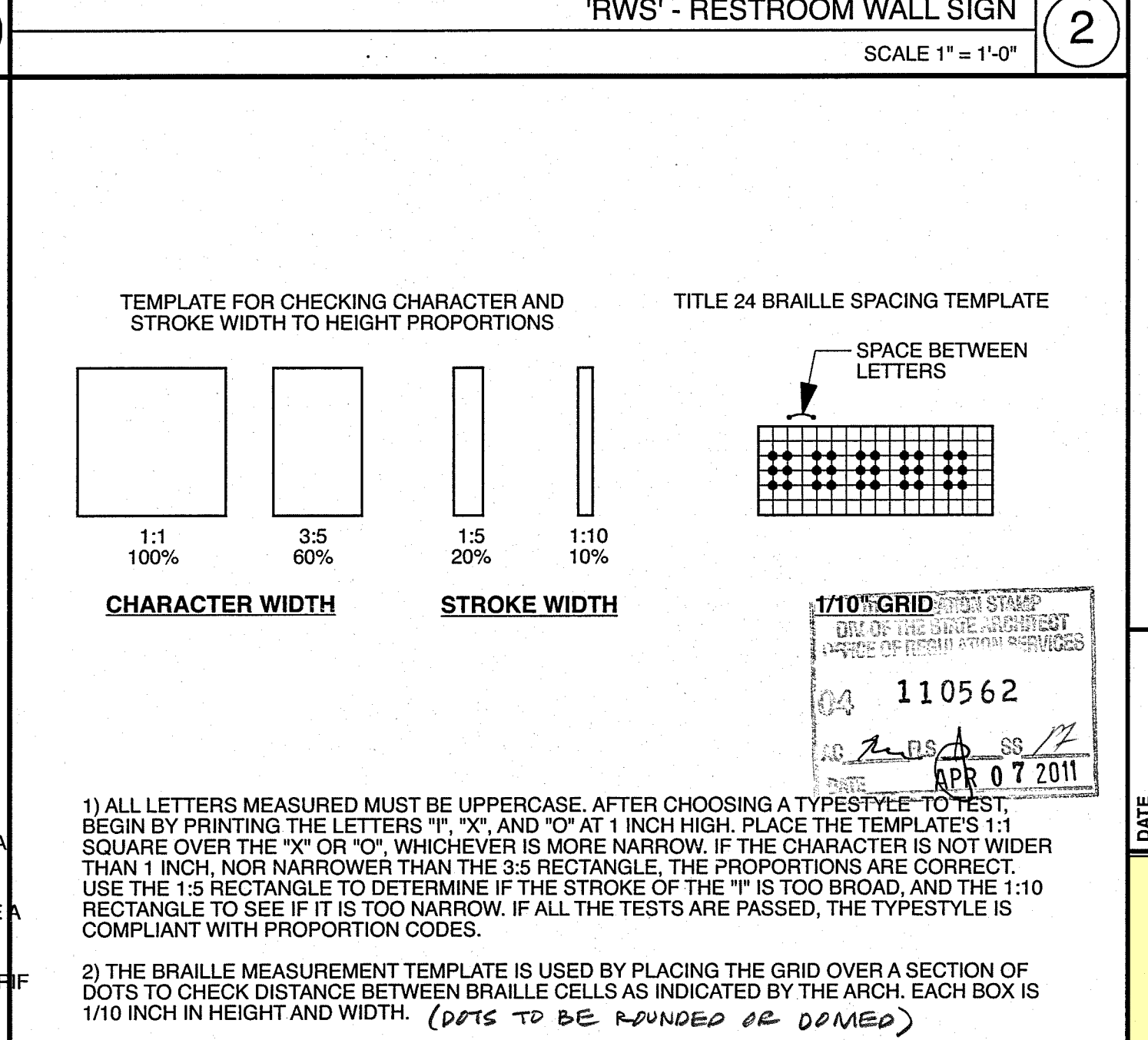
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1-1/2\"/>



ELEVATOR LEVEL SIGNAGE 11  
3\"/>



'R1' - TYPICAL BUILDING NAME & ROOM I.D. SIGN 7  
3\"/>



CHARACTER & BRAILLE TEMPLATES 3  
NO SCALE

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 ARCHITECT  
 LICENSED  
 STATE OF CALIFORNIA  
 CLAYPOOL BUILDING RECONSTRUCTION  
 PALO VERDE COMMUNITY COLLEGE CENTER  
 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92368  
 COLUMN / SIGNAGE DETAILS  
 DATE 07-06-07  
 JOB NO. 2007-SH95-00  
 DRAWN KK, YCL  
 CHECKED  
 SHEET NO. A9.2  
 SHEET OF

TYP. SUSPENDED DRYWALL CEILING

California Department of General Services - Division of the State Architect - Interpretation of Regulations Document

**IR 25-3**  
**DRYWALL CEILING SUSPENSION**  
**CONVENTIONAL CONSTRUCTION - ONE LAYER**

Issued 9-1-99  
Revised 6-11-03  
Revised 4-21-05  
Revised 7-21-05  
Supersedes IR M-4(9/99)

Discipline: Structural

This Interpretation of Regulation (IR) is intended for use by the Division of the State Architect (DSA) staff, and as a resource for design professionals, to promote more uniform statewide criteria for plan review and construction inspection of projects within the jurisdiction of DSA which include State of California public elementary and secondary schools (grades K-12), community colleges, and state-owned or state-leased essential services buildings. This IR indicates an acceptable method for achieving compliance with applicable codes and regulations, although other methods proposed by design professionals may be considered by DSA.

This IR is reviewed on a regular basis and is subject to revision at any time. Please check the DSA web site for currently effective IR's. Only IR's listed in the document at <http://www.dsa.ca.gov/publications/default.htm> (click on "DSA Interpretations of Regulations Manual") at the time of plan submission to DSA are considered applicable.

**Purpose:** The purpose of this IR is to provide additional guidelines for the design and construction of gypsum wall board suspended ceiling systems.

**1. MATERIALS:** Materials are to comply with applicable UBC standards. Gypsum board is either 1/2 inch or 5/8 inch in thickness.

**2. DESIGN:** For lateral load, refer to CBC, Section 1632A. The weight of the suspended ceiling shall not be less than four (4) pounds per square foot for design purposes.

**3. DETAILS OF CONSTRUCTION.**

**3.1 General:** Gypsum ceilings should not support building components other than air conditioning/heating grills or light fixtures. All such components shall be supported either directly from main runners, or by supplemental framing which is supported by main runners. No vertical loads other than gypsum board dead load shall be applied to cross-furring.

**3.2 Vertical Support System.**

**3.2.1** There are many possible variations of hanger and main runner sizes and spacings listed in CBC, Table No. 25A-A, and all of the combinations are acceptable. However, the main runners that are most frequently used are 1-1/2 inch cold rolled channels, 0.475 lbs/ft. This is acceptable provided the following requirements are met:

- 1. Vertical hanger wires are #9 gage and galvanized soft-annealed steel.
- 2. Cross-furring may be 7/8 inch, 25 gage galvanized hat sections at 24 inches o.c. maximum.
- 3. If main runners are spaced at 4'-0" o.c., hanger wires shall be spaced at 3'-0" o.c. maximum.
- 4. If main runners are spaced at 3'-6" o.c., hanger wires shall be spaced at 3'-6" o.c. maximum.
- 5. If main runners are spaced at 3'-0" o.c., hanger wires shall be spaced at 4'-0" o.c. maximum.

To use a main runner spacing of 4'-0" o.c. with a hanger spacing of 4'-0" o.c., main runners must be 1-1/2 inch hot rolled channels weighing 1.12 lbs/ft. Also, #8 gage galvanized hanger wires would be required.

**3.2.2** The following requirements apply to all wire hanger/runner combinations:

- 1. Hangers should be saddle-tied around main runners to develop the full strength of the hangers.
- 2. Cross-furring should be saddle-tied to the main runners with one strand of #16 gage, or two strands of #18 gage wire.
- 3. Main runners should be spliced by lapping and interlocking flanges 12 inches minimum and tying near each end with double loops of #16 gage wire.
- 4. Cross-furring should be spliced by lapping and interlocking the pieces eight (8) inches minimum and tying near each end with double loops of #16 gage wire.

**3.2.3** Fasten hanger wires with not less than three (3) tight turns. Fasten bracing wires with four (4) tight turns. Make all tight turns within a distance of 1-1/2 inches. Hanger or bracing wire anchors to the structure should be installed in such a manner that the direction of the anchor aligns as closely as possible with the direction of the wire.

**Note:** Wire turns made by machine where both strands have been deformed or bent in wrapping can waive the 1-1/2 inch requirement, but the number of turns should be maintained, and be as tight as possible.

Separate all ceiling hanger and bracing wires at least six (6) inches from all unbraced ducts, pipes, conduit, etc.

When drilled-in concrete anchors or shot-in anchors are used in reinforced concrete for hanger wires, 1 out of 10 must be field tested for 200 lbs. in tension. When drilled-in concrete anchors are used for bracing wires, 1 out of 2 must be field tested for 440 lbs. in tension. Shot-in anchors in concrete are not permitted for bracing wires. If any shot-in or drilled-in anchor fails, see Section 1923A.3.5, Title 24.

**Note:** Drilled-in or shot-in anchors require special DSA approval when used in prestressed concrete.

Provide trapeze or other supplementary support members at obstructions to typical hanger spacing. Provide additional hangers, struts or braces as required at all ceiling breaks, soffits or discontinuous areas. Hanger wires that are more than 1 in 6 out of plumb are to have counter-sloping wires.

**4. SUPPORT AND ANCHORAGE OF LIGHT FIXTURES AND MECHANICAL SERVICES.**

**4.1** All recessed or drop-in light fixtures, as well as ceiling mounted mechanical air terminals and services, shall be supported directly by main runners or by supplemental framing which is supported by main runners and positively attached with screws or other approved connectors.

**4.2** Surface mounted fixtures shall be attached to a main runner with a positive clamping device made of material with a minimum of 14 gage. Rotational spring clamps do not comply.

**5. LATERAL SYSTEM:**

**5.1 Wire Brace System.** Provide bracing assemblies, per Figure 1 of IR 25-2, as determined by calculations, with the following limitations:

- 1. For school buildings, place bracing assemblies at a spacing not more than 12 ft. by 12 ft. on center.
- 2. For Essential Services Buildings, place bracing assemblies not more than 8 ft. by 12 ft. on center.
- 3. Provide bracing assemblies at not more than six (6) feet from each perimeter wall and at the edge of vertical ceiling offsets.

The slope of bracing wires shall not exceed 45 degrees from the plane of the ceiling and shall be taut. Splices in bracing wires are not to be permitted without special DSA approval.

4. Ceiling grid members may be attached to not more than two (2) adjacent walls. Ceiling grid members shall be at least 1/2 inch free of other walls. If walls run diagonally to ceiling grid system runners, one end of main and cross runners should be free, and a minimum of 1/2 inch clear of wall.

5. Suspended ceiling systems with an area of 144 square feet or less, and fire rated ceiling systems with an area of 96 square feet or less, surrounded by walls which connect directly to the structure above, do not require bracing assemblies when attached to at least two adjacent walls.

**5.2 Alternate System:** Design as a diaphragm, similar to plywood diaphragm concept, subject to acceptance by the DSA Regional Office.

**5.2.1 Diaphragm Ratios:**

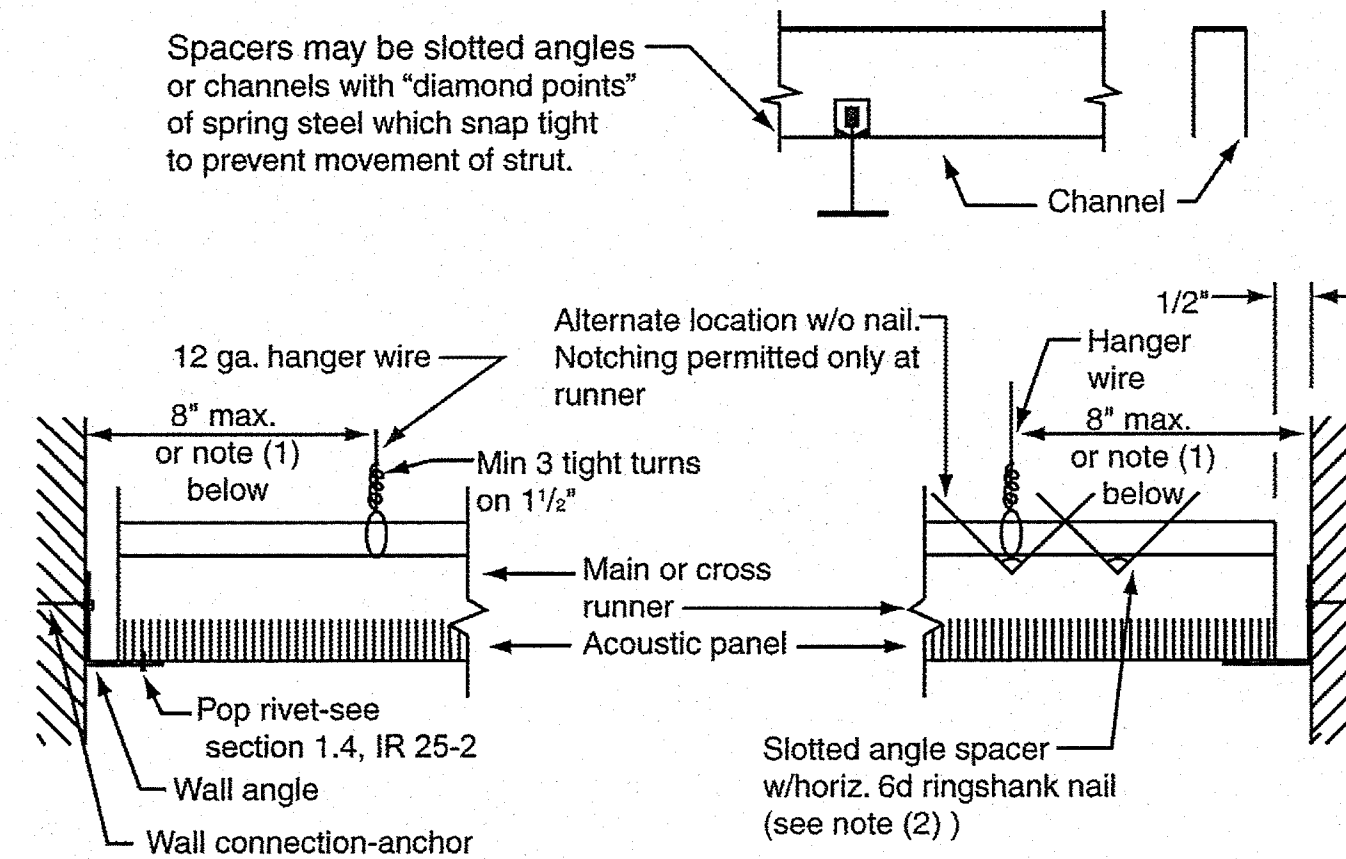
Horizontal 2:1 maximum  
Vertical 1:1 maximum

**5.2.2** A maximum diaphragm shear equal to 50 lbs./ft. is allowed with 1 inch or 1-1/4 inch Hi-Lo Type S, or S-12, bugle head screws at 12 inches o.c. at all gypsum board edges (3/8 inch screw edge distance) and at all intermediate supports. A wall constructed similarly can resist the same shear force provided the gypsum board is on the same side of the studs as the ceiling is, and a positive connection between the ceiling and the wall is detailed. The gypsum board diaphragms are to resist lateral loads due to their own weight and/or the ceiling diaphragm(s) only.

**5.2.3** Details are required providing for lateral load transfer from the gypsum board to shear walls, or other lateral load resisting elements, on all four sides of the diaphragm.

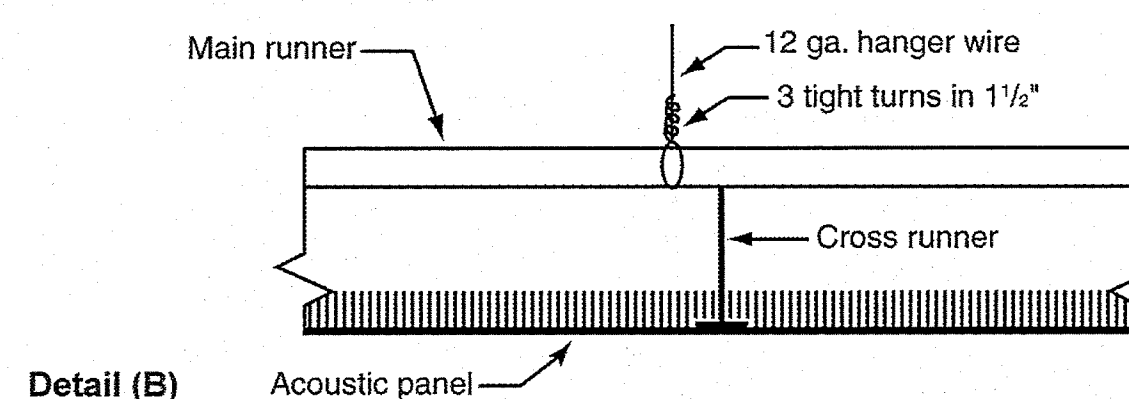
TYP. SUSPENDED CEILING NOTES (Cont.)

**Figure 2**  
**ACCEPTABLE HANGER WIRE CONNECTION TO GRID**

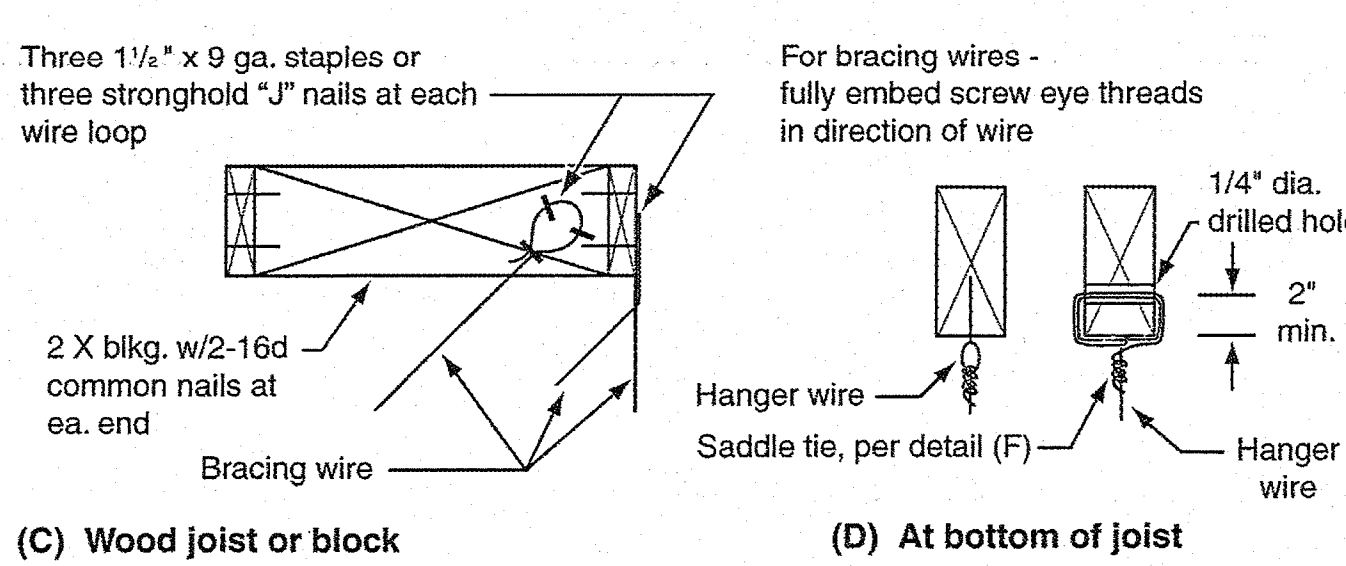
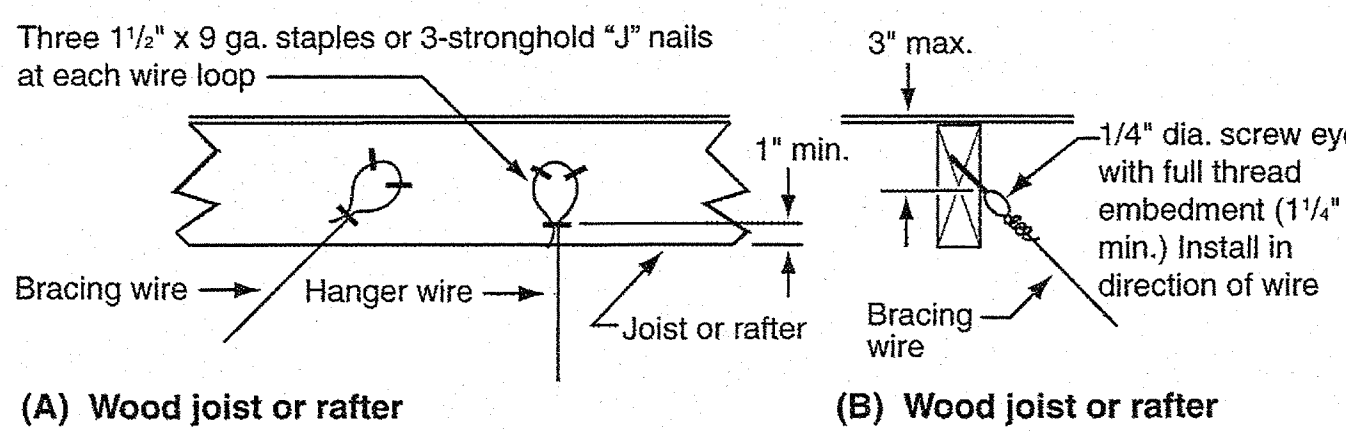


**Detail (A) Horizontal strut - typical (see section 1.5, IR 25-2)**

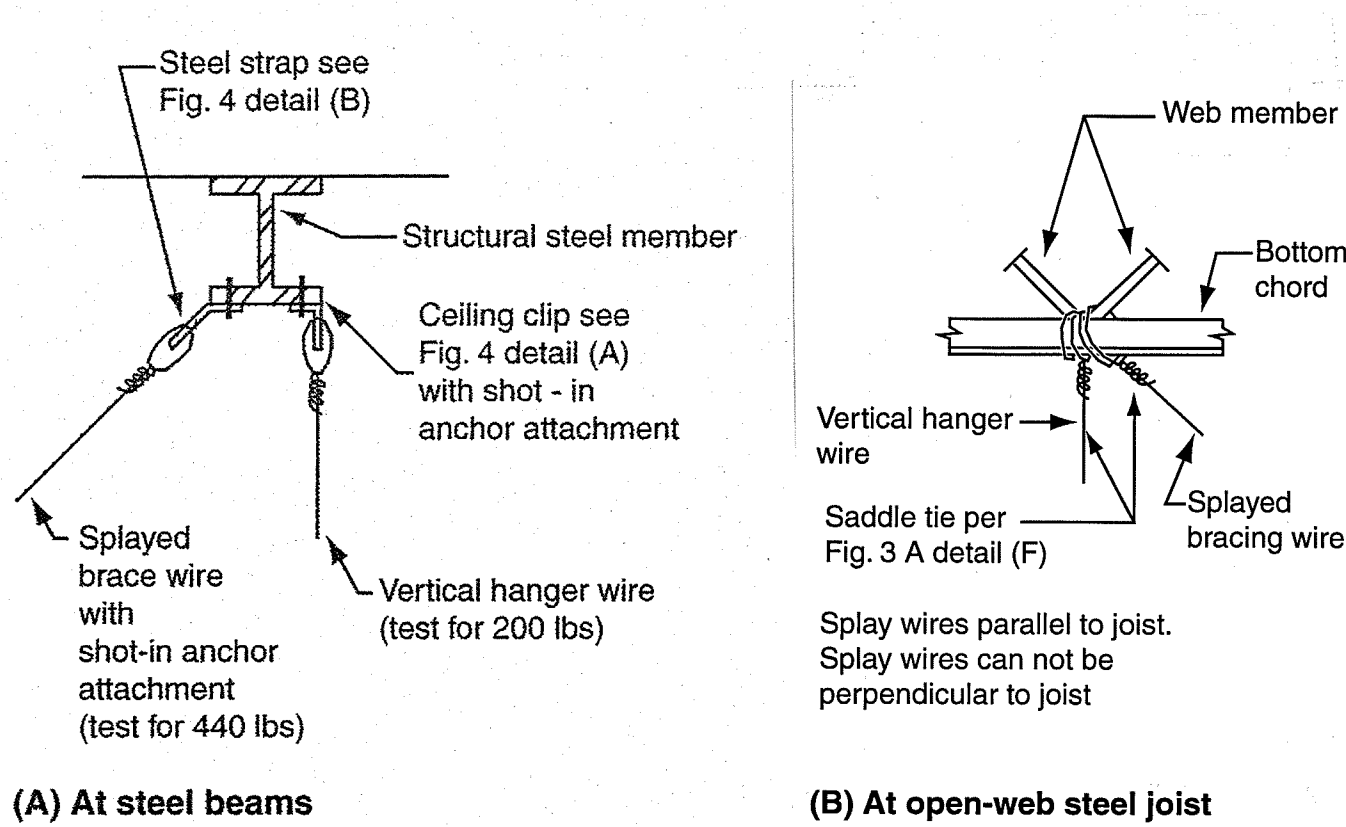
**Notes:** (1) 1/4 of the length of the end runner whichever is less.  
(2) Nails at the end of horizontal struts are to be placed with nail head toward centerline of span of strut



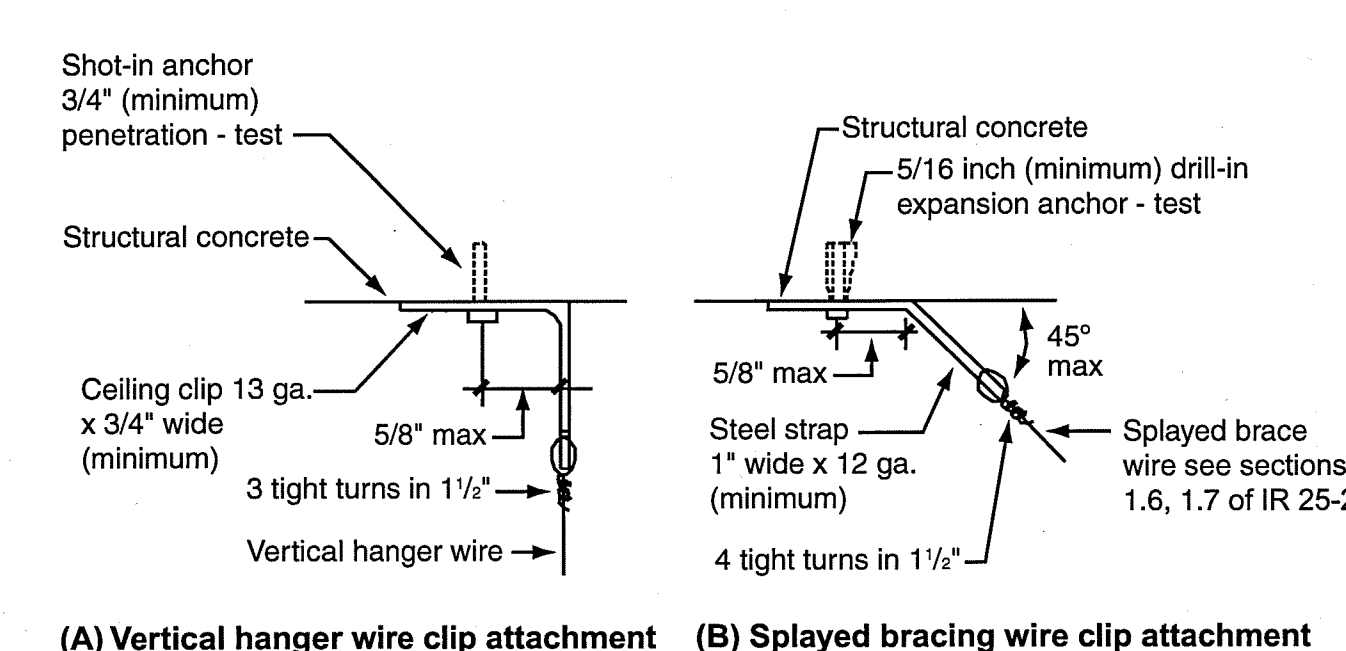
**Figure 3A**  
**ACCEPTABLE DETAILS - WIRE CONNECTIONS TO WOOD FRAMING**



**Figure 5**  
**ACCEPTABLE DETAILS - WIRE CONNECTIONS TO STEEL FRAMING**



**Figure 4**  
**ACCEPTABLE DETAILS - WIRE CONNECTION TO CAST-IN-PLACE CONCRETE**



TYP. SUSPENDED CEILING NOTES (Cont.)

The four (4) taut #12 gage wires, including their attachment to the structure above, must be capable of supporting four (4) times the weight of the unit.

**1.12** All fixtures and air terminals supported on intermediate duty grid systems must be independently supported by not less than four (4) taut #12 gage wires each attached to the fixture or terminal, and to the structure above.

**1.13** Support surface mounted light fixtures by at least two positive devices which surround the ceiling runner and which are each supported from the structure above by a #12 gage wire. Spring clips or clamps that connect only to the runner are not acceptable.

Provide additional supports when light fixtures are 8 ft. or longer.

**1.14** Support pendant mounted light fixtures directly from the structure above with hanger wires or cables passing through each pendant hanger and capable of supporting four (4) times the weight of the fixture. A bracing assembly, per Figure 1, is required where the pendant hanger penetrates the ceiling. Special details are required to attach the pendant hanger to the bracing assembly to transmit horizontal forces.

**1.15 Required notes on construction documents:**

Classification of ceiling grid (fill in blanks).  
Classification of ceiling grid is HEAVY duty.  
Manufacturer's catalog number - main runner USG-DXL26.  
Manufacturer's catalog number - cross runner USG-DXL424.  
Manufacturer's catalog number of detail for runner splice US-DXL424.

- (1) Fill in either "intermediate" or "heavy".
- (2) Runners must be rated for duty listed.
- (3) Show manufacturer, duty classification and catalog numbers. Show light fixture and air terminal or grille support details for grid duty classification selected. See Items 1.11 and 1.12 above.

**2. ADDITIONAL REQUIREMENTS FOR FIRE RATED CEILING:**

**2.1** Provide Underwriter Laboratory (U.L.) design number or State Fire Marshal (SFM) listing number. The components and installation details must conform in every respect with the U.L. or SFM approval for the design number specified. Custom designs which combine components from different approved designs but have not been tested as a complete assembly are not acceptable.

**2.2** For schools and Essential Services Buildings, bracing assemblies are required for each 96 square feet. The first bracing assembly is required not more than four (4) feet from each wall. A minimum of one bracing assembly is required between any two adjacent expansion cut-outs on runners being braced.

**2.3** Pop rivets, screws, or other attachments are not acceptable unless specifically detailed on the drawings and approved by U.L. and SFM.

**3. ADDITIONAL REQUIREMENTS FOR METAL PANELS:** Metal panels and panels weighing more than 1/2 psf, other than acoustical tile, are to be positively attached to the ceiling suspension runners.

**4. SUSPENDED ACOUSTICAL CEILINGS BELOW GYPSUM BOARD CEILINGS:** Where gypsum board or other ceiling finishes are attached to the framing, special details will be required for the vertical hanger wire and lateral bracing wire support connections to the framing.

**5. REUSE OF EXISTING CEILING HANGER WIRES AND SPLAY WIRES:**

- 5.1** The gage and spacing of the wires must comply with the current applicable codes.
- 5.2** All existing ceiling hanger wires must be tested to 200 lbs. in tension.
- 5.3** All existing splayed bracing wires must be field tested to 440 lbs. in tension.
- 5.4** If a new wire is to be spliced to an existing wire, the following is required:
  - 1. The architect or structural engineer in general responsible charge must submit to DSA a detail and specification describing how the splice is to be made.
  - 2. All new wires, after being spliced to the existing wires, must be field tested per Items 5.2 and 5.3 above.
  - 3. All field tests must be performed in the presence of the project inspector.

**6. LIST OF DSA PRODUCT ACCEPTANCE FOR SUSPENDED ACOUSTICAL CEILING SYSTEMS**

**DSA Product Acceptance (PA) Report #**

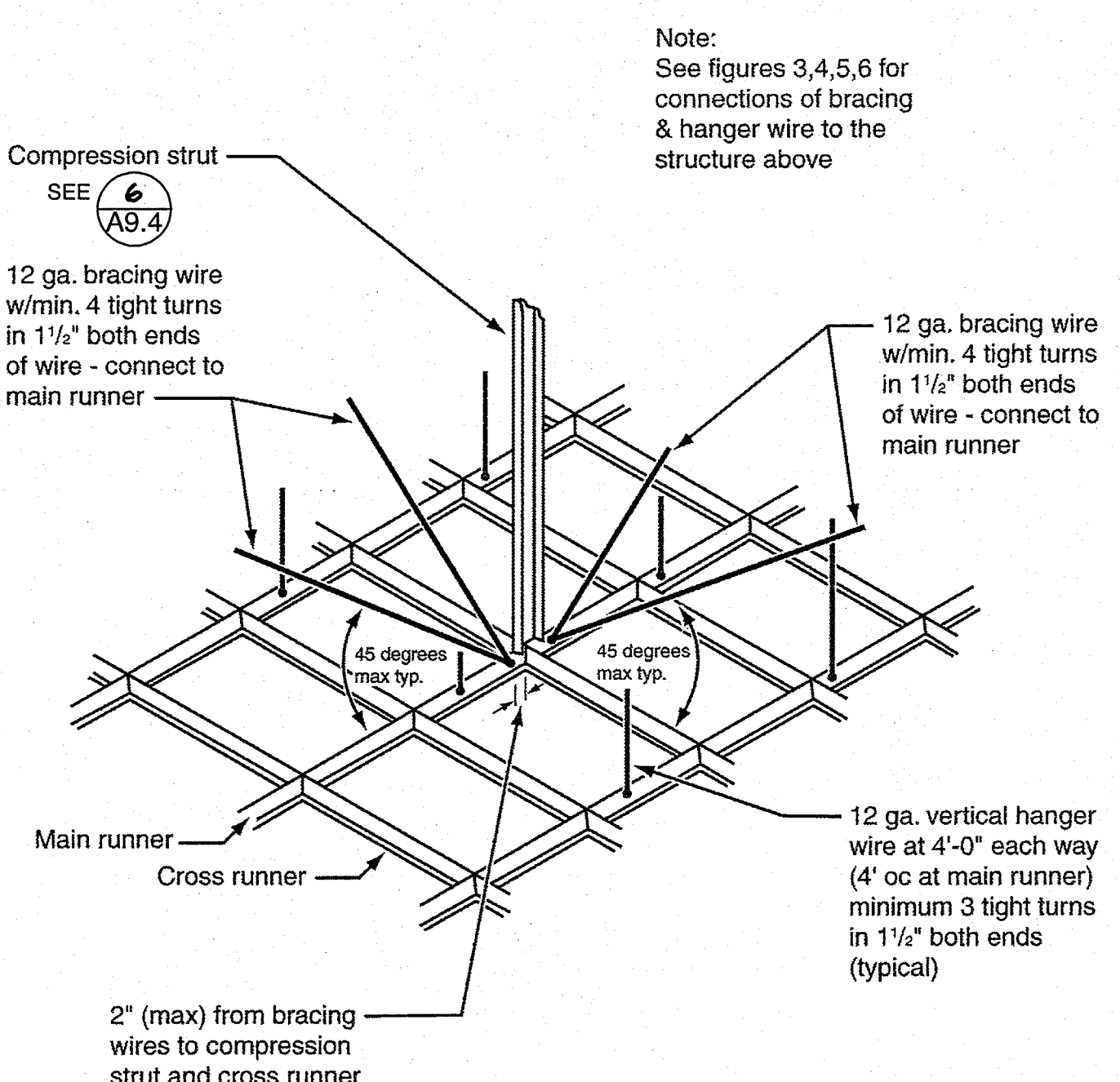
- PA-008 Tectum I and Tectum II - Form Board, Acoustical Board and Suspended Ceiling Tile
- PA-022 Armstrong Cassettes 800 Series Metal Ceiling System
- PA-026 Chicago Metallic Suspended Ceiling System
- PA-030 USG Interior Donn Suspended Ceiling Grid Systems
- PA-041 Armstrong World Industries Suspended Ceiling System
- PA-078 Metaline, Plantostile and Magna T-Cell Suspended Ceiling Systems

**Note:** Alternate manufacturers and systems may be submitted for review and acceptance by the Division of the State Architect.

**Figure 1**  
**SUSPENDED CEILING BRACING ASSEMBLY**

Bracing assemblies are required at spacing indicated in section 1.6 on page 2 of IR 25-2

**Compression struts:**  
Steel section with L/r ratio of 200 maximum. Attach to main runners within 2" of cross runner with 2-#12 self-drilling self-tapping (SDST) screws and to structure with 2-#12 x 2" screws at wood or 3/16" diameter anchor at concrete/steel. Compression strut shall not replace hanger wire.



TYP. A.C.T. HANGER WIRE NOTES

California Department of General Services - Division of the State Architect - Interpretation of Regulations Document

**IR 25-1**  
**MAXIMUM ALLOWABLE LOAD FOR**  
**10 GAGE AND 12 GAGE WIRES**

Issued 9-1-99  
Revised 4-21-05  
Supersedes IR 4-2(9-99)

Discipline: Structural

This Interpretation is intended for use by the plan review and field engineers of DSA to indicate an acceptable method for achieving compliance with applicable codes and regulations. Its purpose is to promote more uniform statewide criteria for use in plan review and supervision of construction of public schools, community colleges and essential services buildings. Other methods proposed by design professionals to solve a particular problem may be considered by DSA and reviewed for code and regulation compliance.

**Purpose:** The purpose of this IR is to provide allowable loads for mild steel wire.

1. **Description.** "Galvanized soft annealed mild steel wire," as defined in the CBC, Section 2501A.5, is the wire referred to in this IR.
2. **Basis of Design Strength.** Based on tests which the Division of the State Architect (DSA) has received to date for this type of wire, an ultimate stress of 60,000 psi will be used for #10 gage and #12 gage wire.
3. **Design Value.** Basic stress will be the ultimate stress divided by 2.5, or 24,000 psi. Testing is not required when these values are used.
4. **Diameter of Wire.** #10 wire is 0.135 inches in diameter and a #12 wire is 0.1055 inches in diameter as shown by the U.S. Steel Wire Gage.
5. **Allowable Load.**

Wire Size	Basic Load
#10 wire	343 lbs.
#12 wire	209 lbs.

**6. Fabrication.** When using twists of wire to develop the maximum allowable load, use a minimum of 4 twists within 1 1/2". Three twists may be used to develop not more than one half the above values.

**7. Limitations.**

**7.1** These values are for tension only. Tearing of thin metal by wire must be considered.  
**7.2** If the specification requires a special wire such as a wire meeting Federal Specification FS-CQ-W-46, Finish 5, Class B, with an ultimate stress of 70,000 psi for #10 wire and 75,000 psi for #12 wire, a proportionately higher allowable value may be used.

TYP. SUSPENDED CEILING NOTES

California Department of General Services - Division of the State Architect - Interpretation of Regulations Document

**IR 25-2**  
**METAL SUSPENSION SYSTEMS**  
**FOR LAY-IN PANEL CEILINGS**

Issued 9-1-99  
Revised 04-21-05  
Revised 07-21-05  
Supersedes IR M-3

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**Purpose:** The purpose of this IR is to provide guidelines for the installation of metal suspension systems for lay-in ceilings.

**1. CEILING NOTES:** The following notes will be acceptable in plans and specifications for ceiling systems whose total weight, including air conditioning/heating grills and light fixtures, does not exceed two (2) psf. Heavier systems, and those supporting lateral loads from partitions, will require special design details. Also, see IR 25-3 for heavier systems.

- 1.1** #12 gage (min.) hanger wires may be used for up to and including 4 ft. by 4 ft. grid spacing and shall be attached to main runners.
- 1.2** Provide #12 gage hanger wires at the ends of all main and cross runners within eight (8) inches of the support or within one-fourth (1/4) of the length of the end tie, whichever is least, for the perimeter of the ceiling area. End connections for runners which are designed and detailed to resist the applied vertical and horizontal loads from partitions, will require special design details. Also, see IR 25-3 for heavier systems.
- 1.3** Provide trapeze or other supplementary support members at obstructions to typical hanger spacing. Provide additional hangers, struts or braces as required at all ceiling breaks, soffits or discontinuous areas. Hanger wires that are more than 1 in 6 out of plumb are to have counter-sloping wires.
- 1.4** Ceiling grid members may be attached to not more than two (2) adjacent walls. Ceiling grid members shall be at least 1/2 inch clear of other walls. If walls run diagonally to ceiling grid system runners, one end of main and cross runners should be free, and a minimum of 1/2 inch clear of wall.
- 1.5** At the perimeter of the ceiling area where main or cross runners are not connected to the adjacent wall, provide interconnection between the runners at the free end to prevent lateral spreading. A metal strut or a #16 gage wire with a positive mechanical connection to the runner may be used. Where the perpendicular distance from the wall to the first parallel runner is 12 inches or less, this interlock is not required.

**1.6** Provide bracing assemblies consisting of a compression strut and four (4) #12 gage splayed bracing wires oriented 90 degrees from each other (see Figure 1) at the following spacing:

- 1. For school buildings, place bracing assemblies at a spacing not more than 12 ft. by 12 ft. on center.
- 2. For Essential Services Buildings, place bracing assemblies not more than 8 ft. by 12 ft. on center.
- 3. Provide bracing assemblies at locations not more than one half (1/2) the spacings given above, from each perimeter wall and at the edge of vertical ceiling offsets.

The slope of these wires shall not exceed 45 degrees from the plane of the ceiling and shall be taut. Splices in bracing wires are not to be permitted without special DSA approval.

**1.7** Fasten hanger wires with not less than three (3) tight turns. Fasten bracing wires with four (4) tight turns. Make all tight turns within a distance of 1-1/2 inches. Hanger or bracing wire anchors to the structure should be installed in such a manner that the direction of the anchor aligns as closely as possible with the direction of the wire.

**1.8** Separate all ceiling hanger and bracing wires at least six (6) inches from all unbraced ducts, pipes, conduit, etc.

**1.9** When drilled-in concrete anchors or shot-in anchors are used in reinforced concrete for hanger wires, 1 out of 10 must be field tested for 200 lbs. in tension. When drilled-in concrete anchors are used for bracing wires, 1 out of 2 must be field tested for 440 lbs. in tension. Shot-in anchors in concrete are not permitted for bracing wires. If any shot-in or drilled-in anchor fails, see CBC, Section 1923A.3.5.

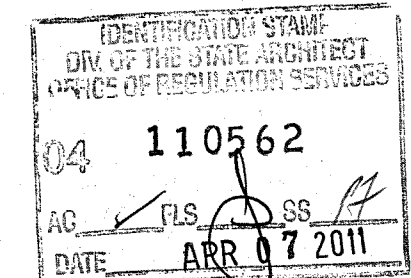
**Note:** Drilled-in or shot-in anchors require special DSA approval prior to use in prestressed concrete.

**1.10** Attach all light fixtures and ceiling mounted air terminals, to the ceiling grid runners to resist a horizontal force equal to the weight of the fixtures. Screws or approved fasteners are required.

**1.11** Flush or recessed light fixtures and air terminals, weighing less than 56 lbs., may be supported directly on the runners of a heavy duty grid system but, in addition, they must have a minimum of two (2) #12 gage safety wires attached to the fixture at diagonal corners and anchored to the structure above. All 4 ft. x 4 ft. light fixtures must have slack safety wires at each corner.

All flush or recessed light fixtures and air terminals weighing 56 lbs. or more must be independently supported by not less than four (4) taut #12 gage wires, each attached to the fixture and to the structure above regardless of the type of ceiling grid system used.

REFERENCE INSPECTOR COMMENT 1-029



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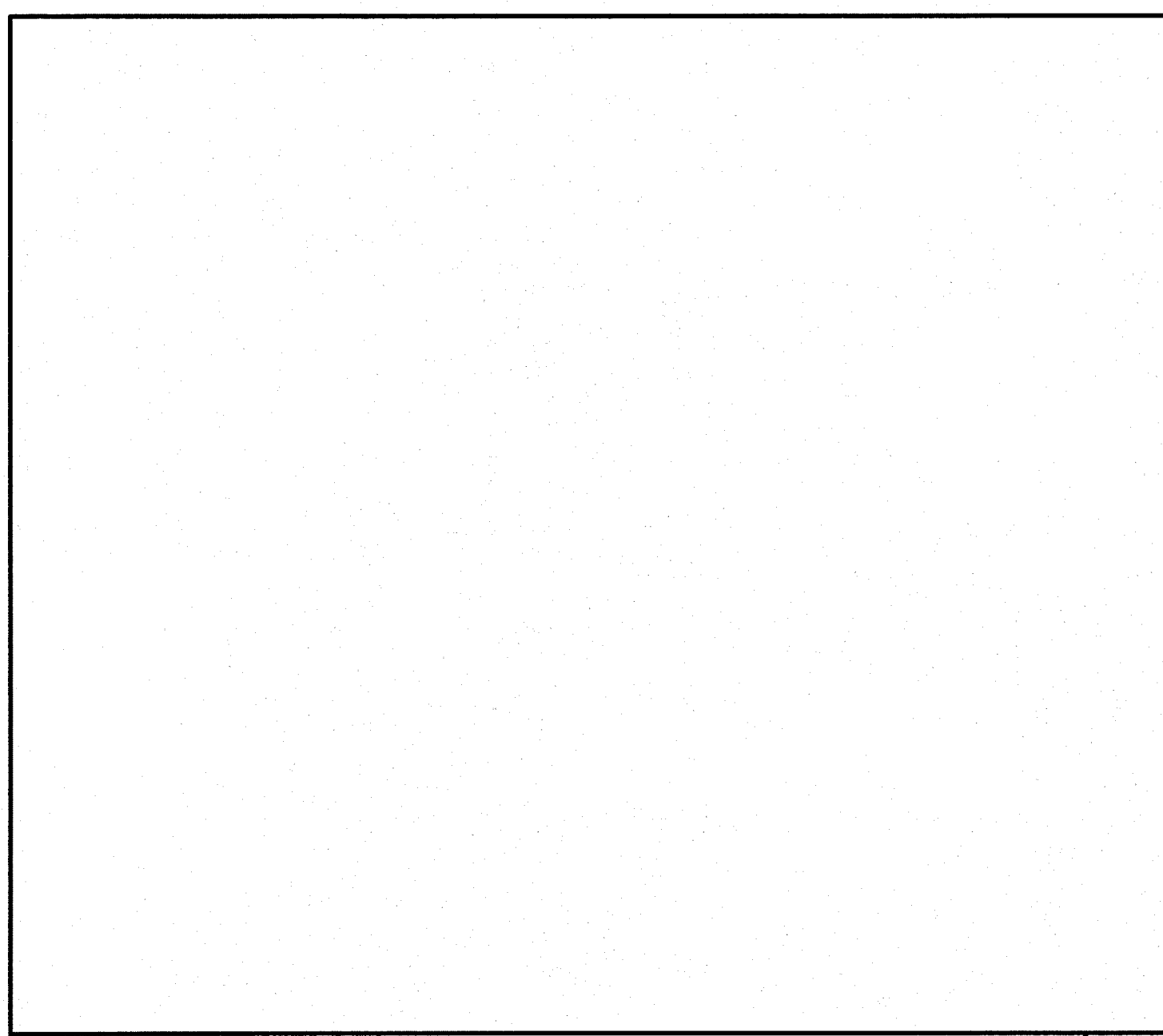
**CLAYPOOL BUILDING RECONSTRUCTION**  
PALO VERDE COLLEGE, NEEDLES CENTER  
PALO VERDE COMMUNITY COLLEGE DISTRICT  
725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92368

**TYP. SUSPENDED CEILING DETAILS & NOTES**

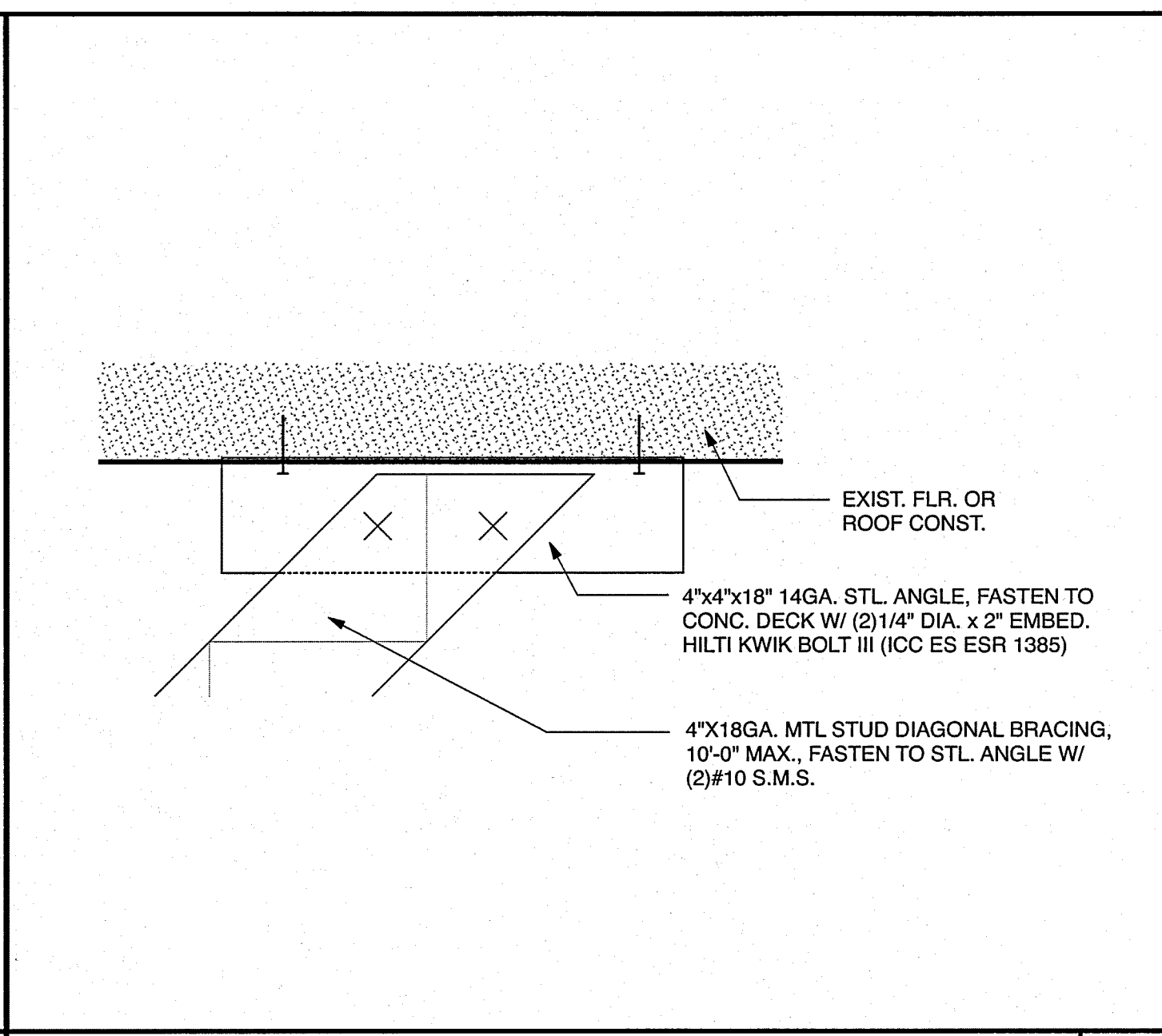
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CHECKED				

JWT

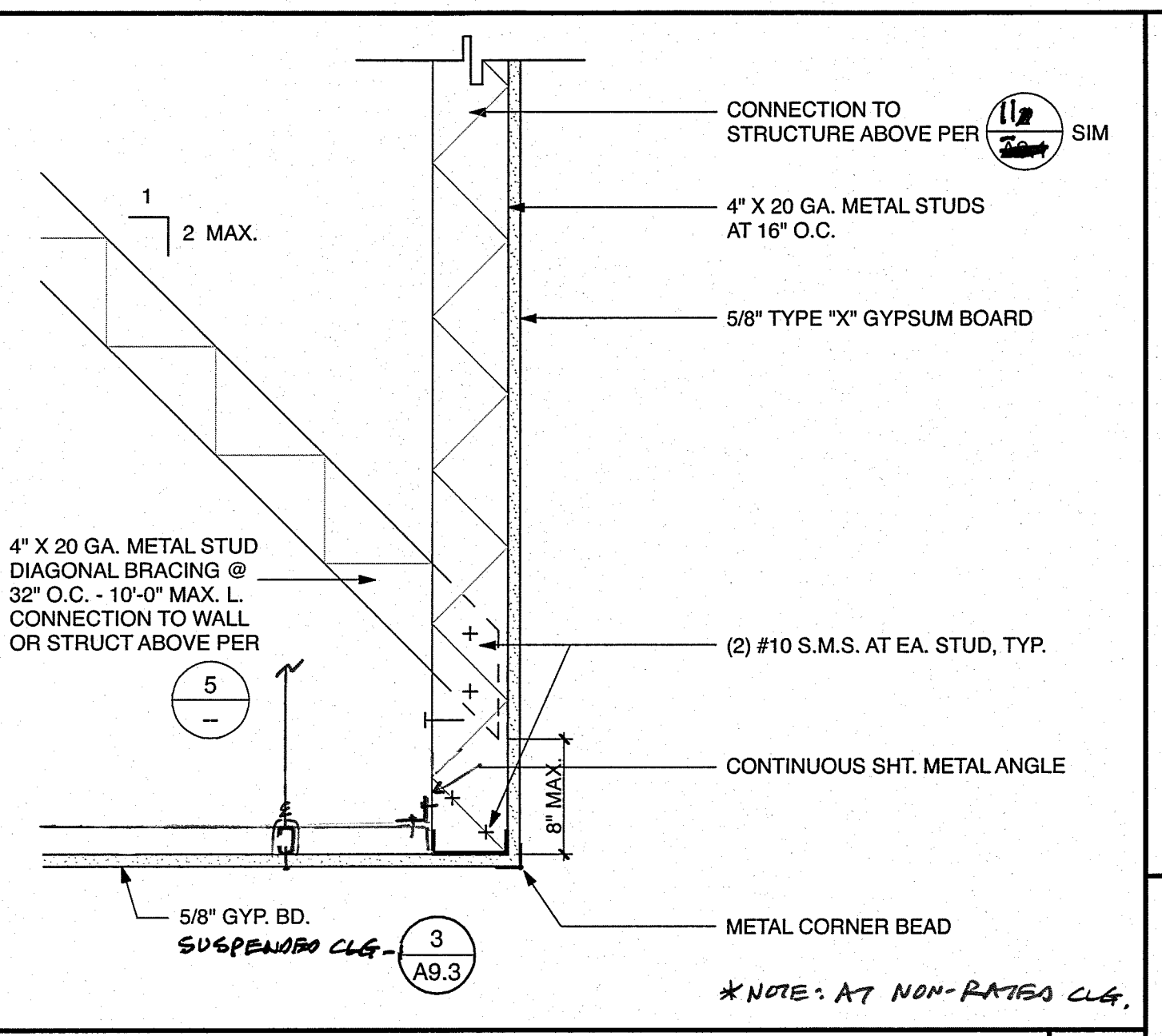
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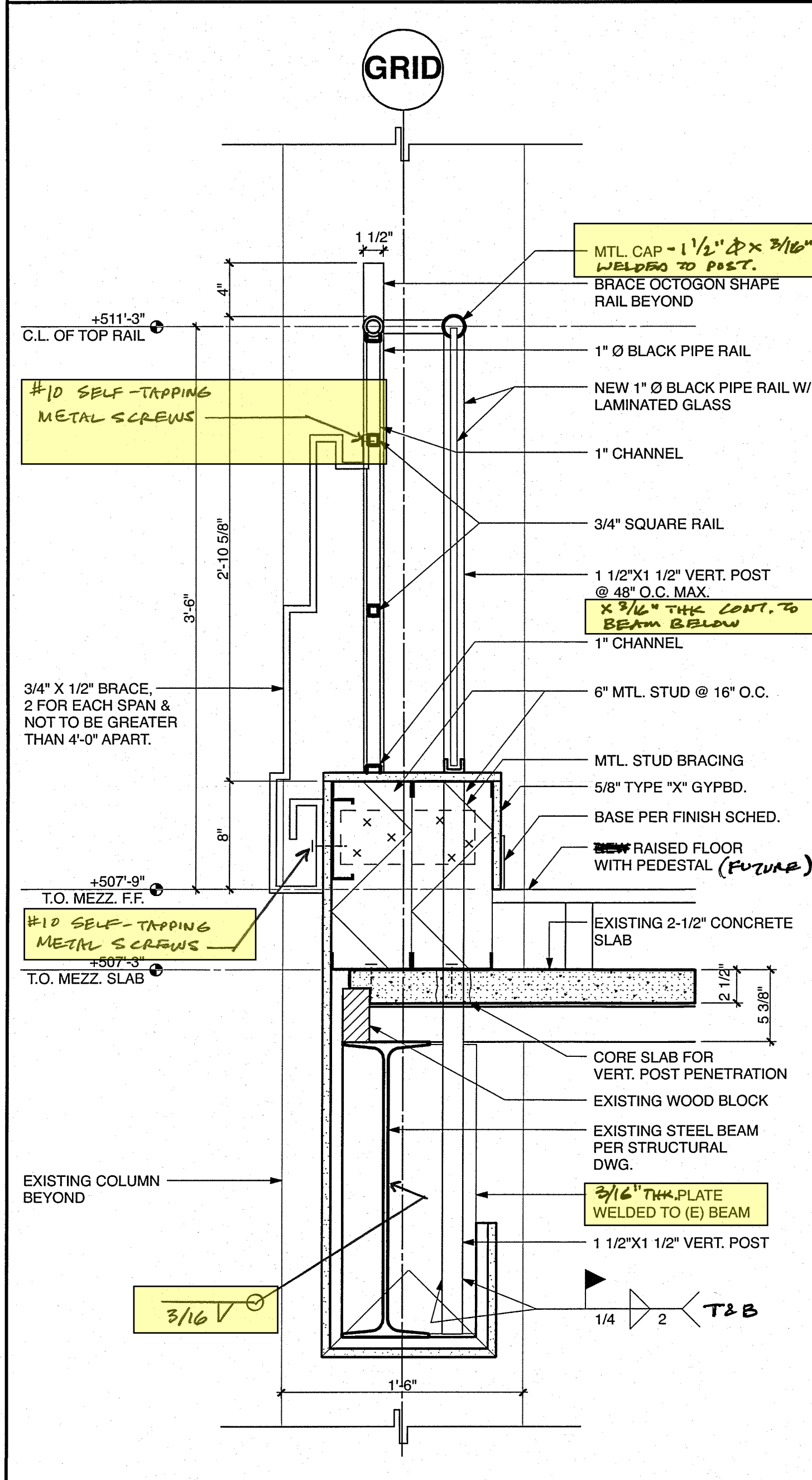
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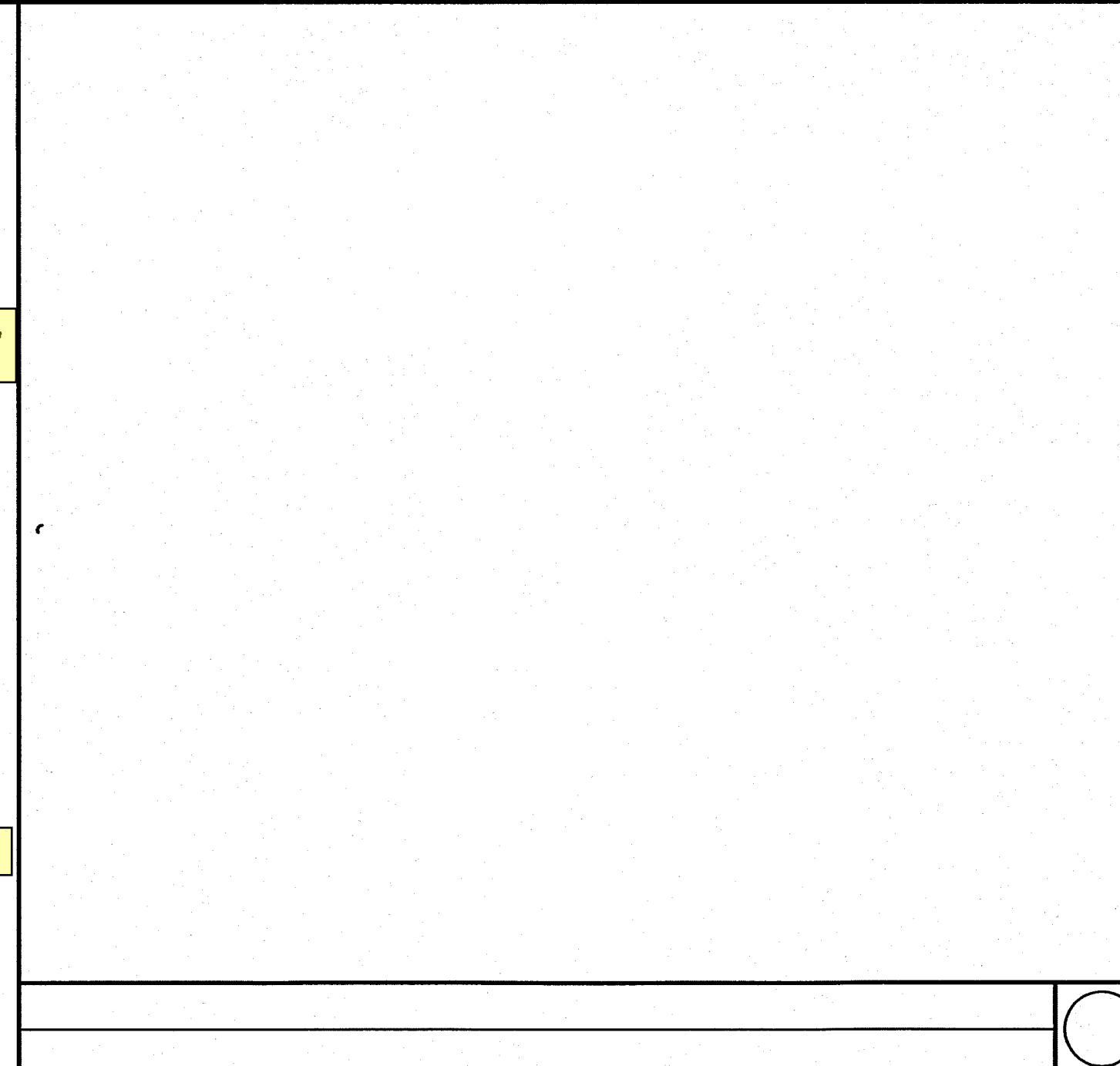
DIAGONAL STUD BRACE ATTACHMENT AT FLR./ROOF DECK  
3\"/>



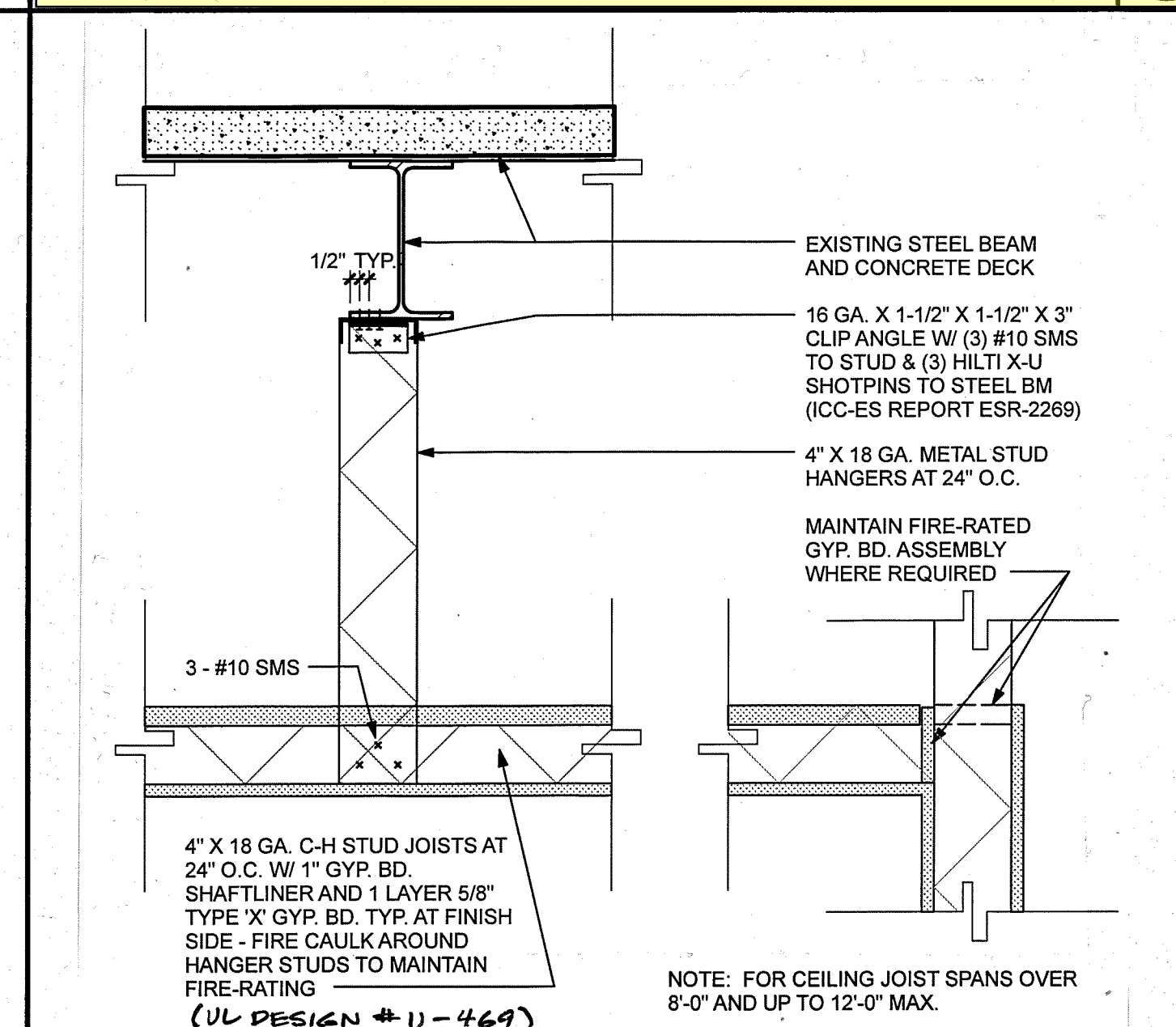
TYP. GYPSUM BOARD SOFFIT  
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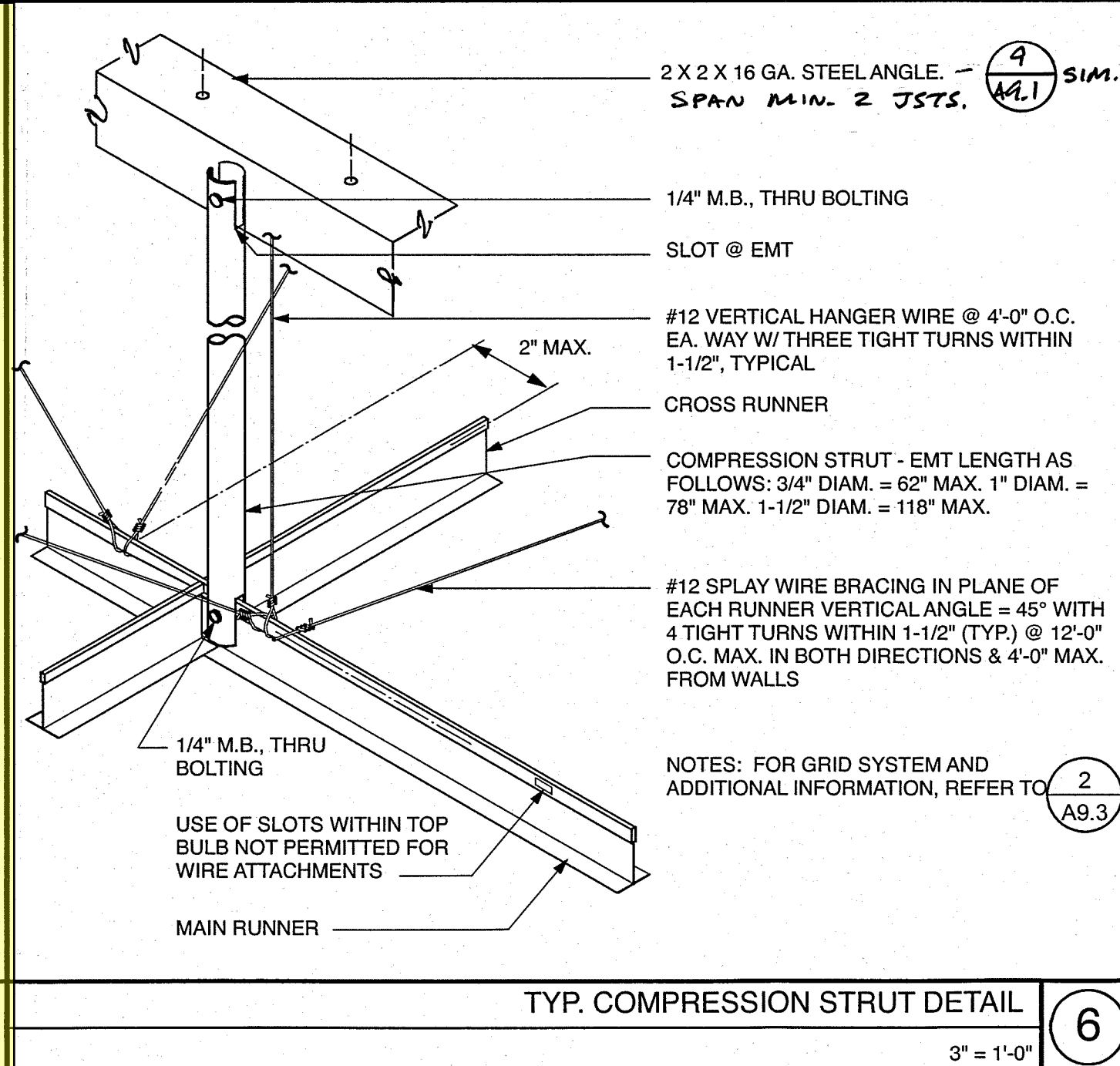
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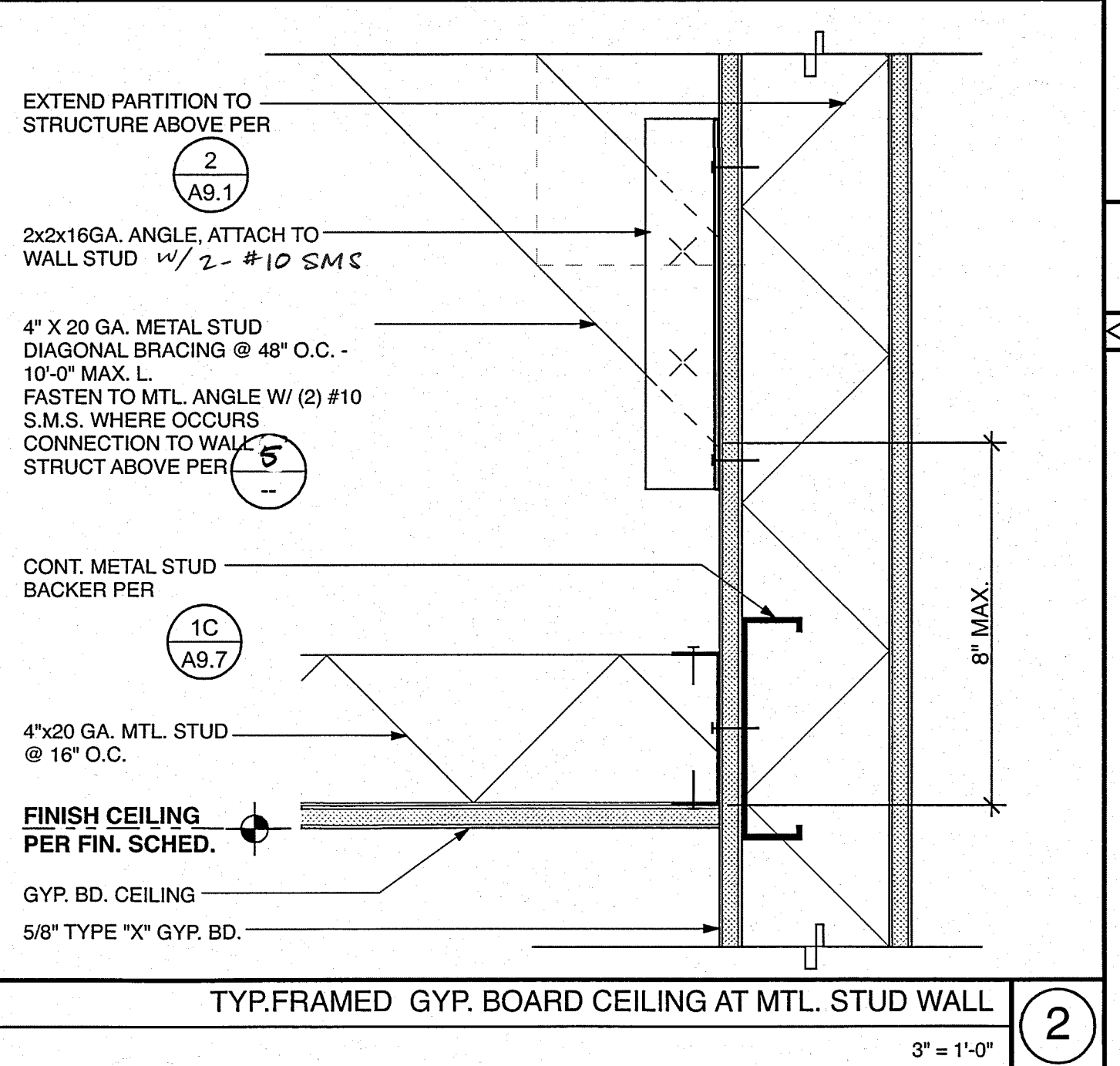
TYP. RECESSED LIGHT IN ONE-HOUR RATED CEILING  
SCALE: 1 1/2\"/>



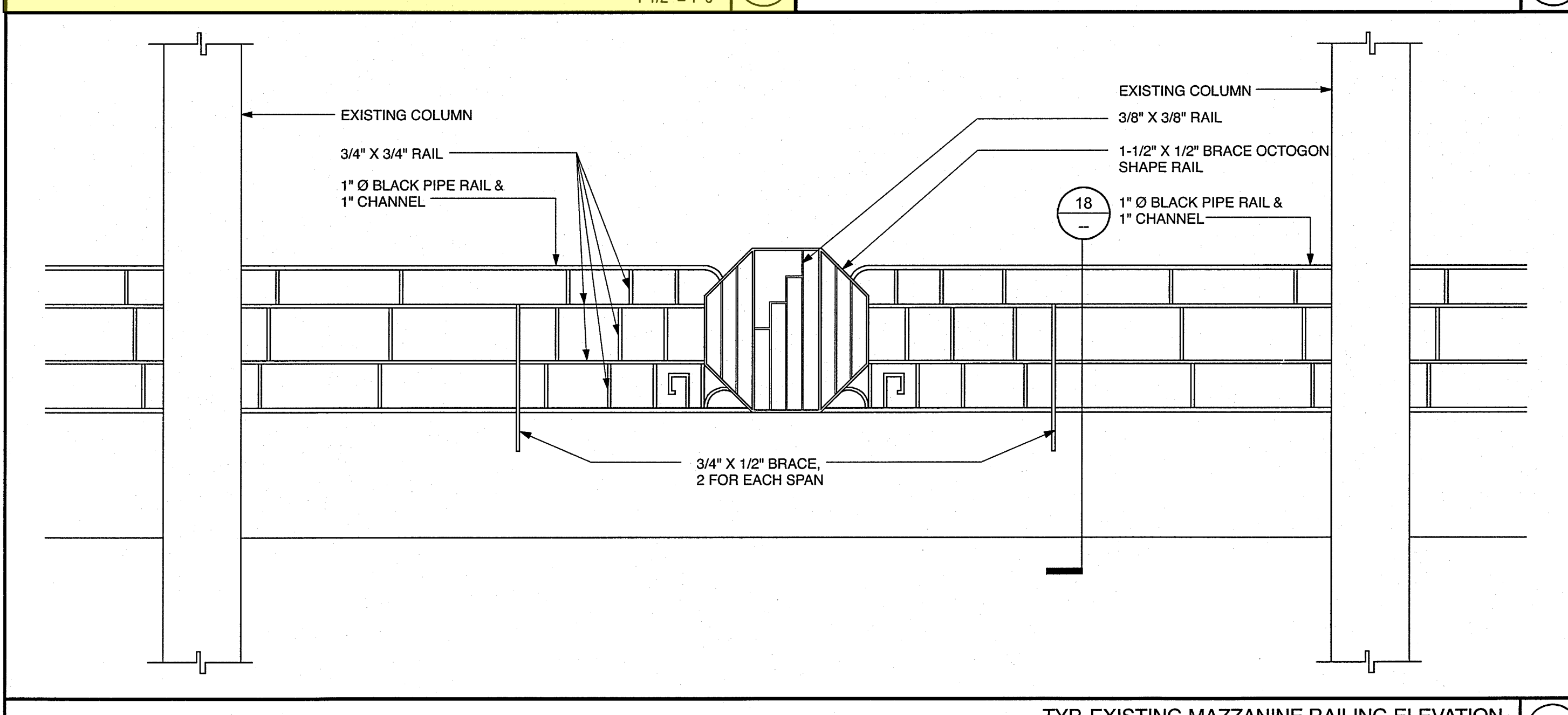
TYP. STUD HANGERS AT LONG SPAN JOISTS  
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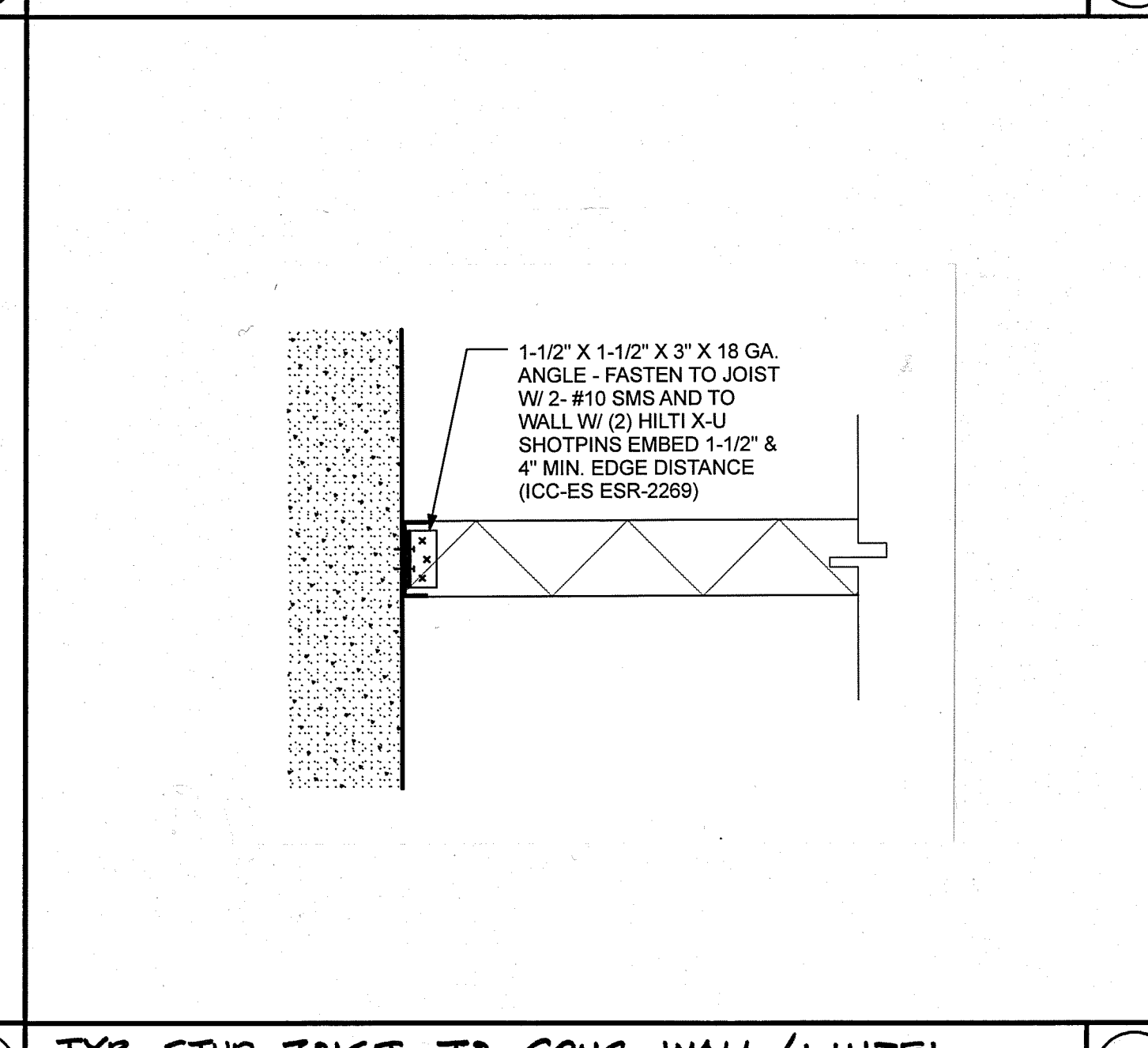
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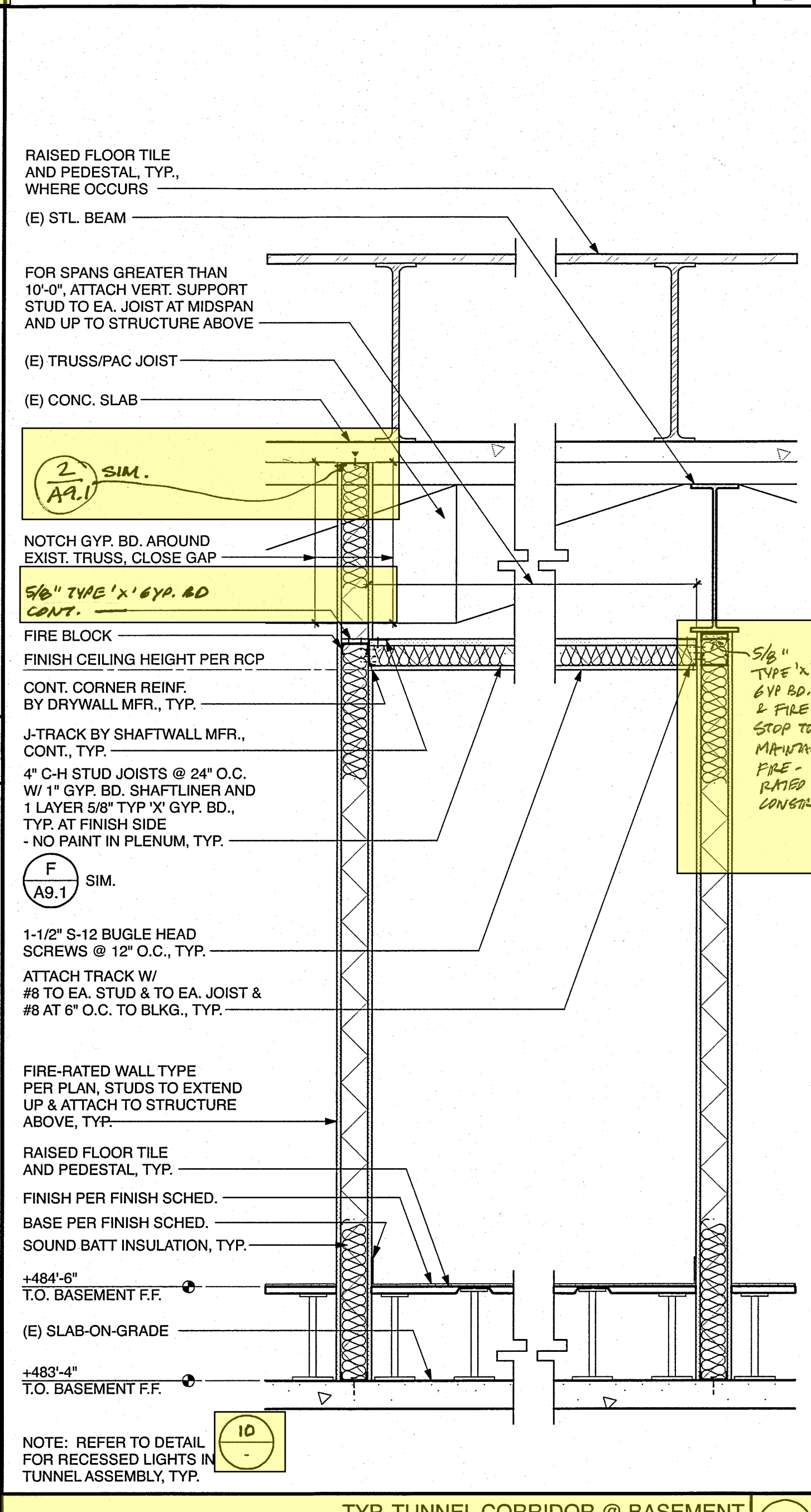
TYP. FRAMED GYP. BOARD CEILING AT MTL. STUD WALL  
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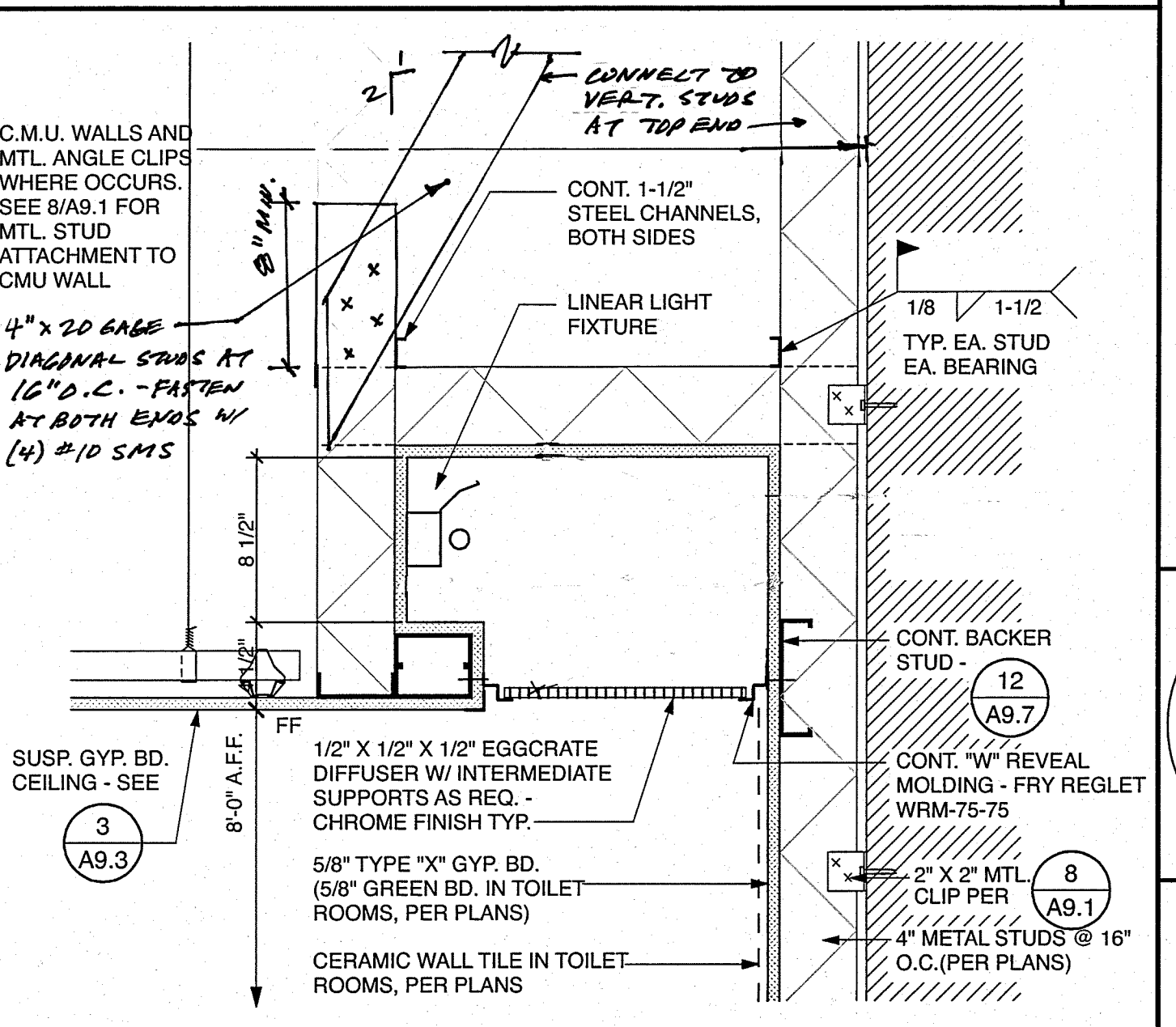
TYP. EXISTING MEZZANINE RAILING ELEVATION  
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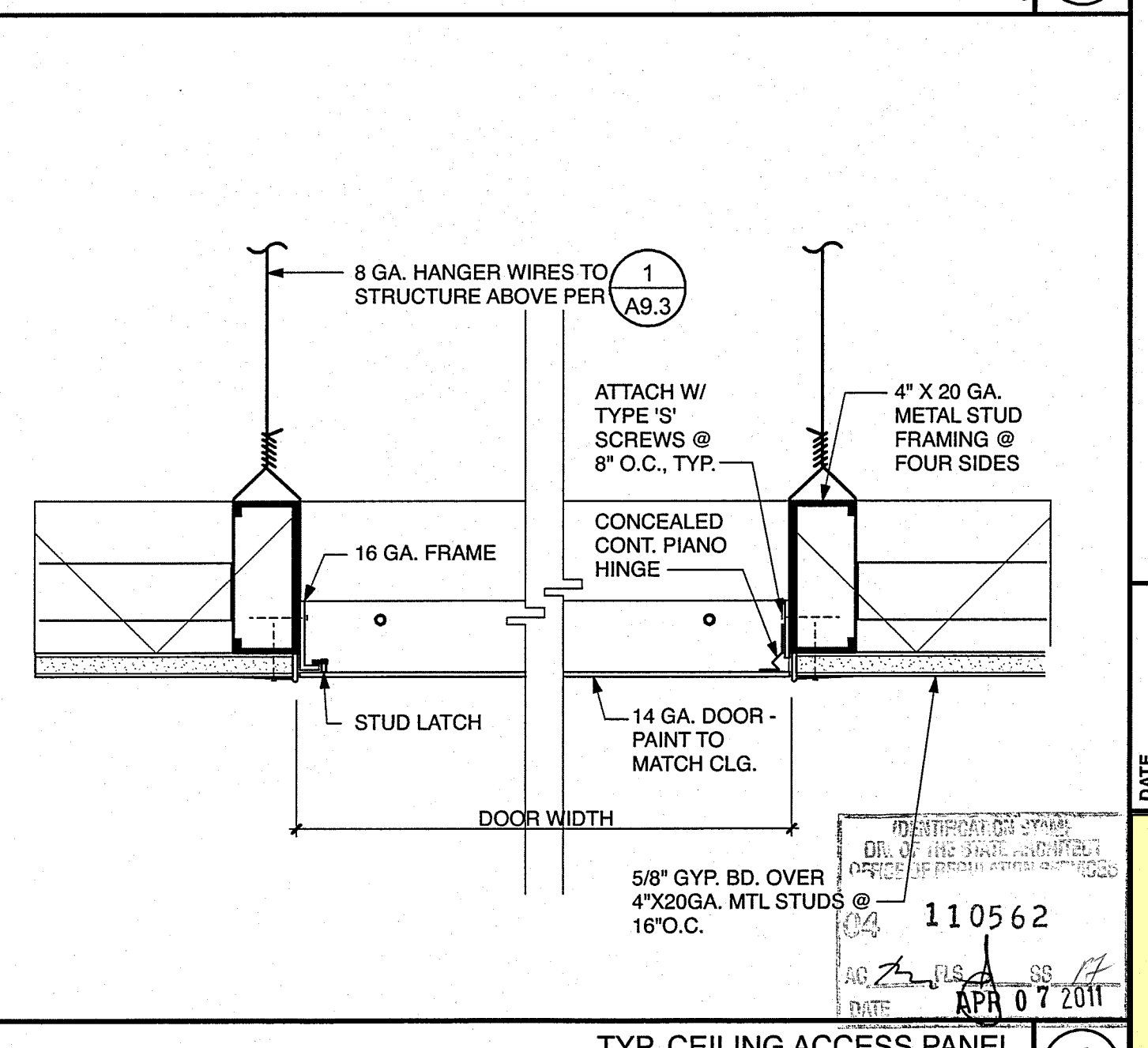
TYP. STUD JOIST TO CONC. WALL/LINTEL  
3/4\"/>



TYP. TUNNEL CORRIDOR @ BASEMENT  
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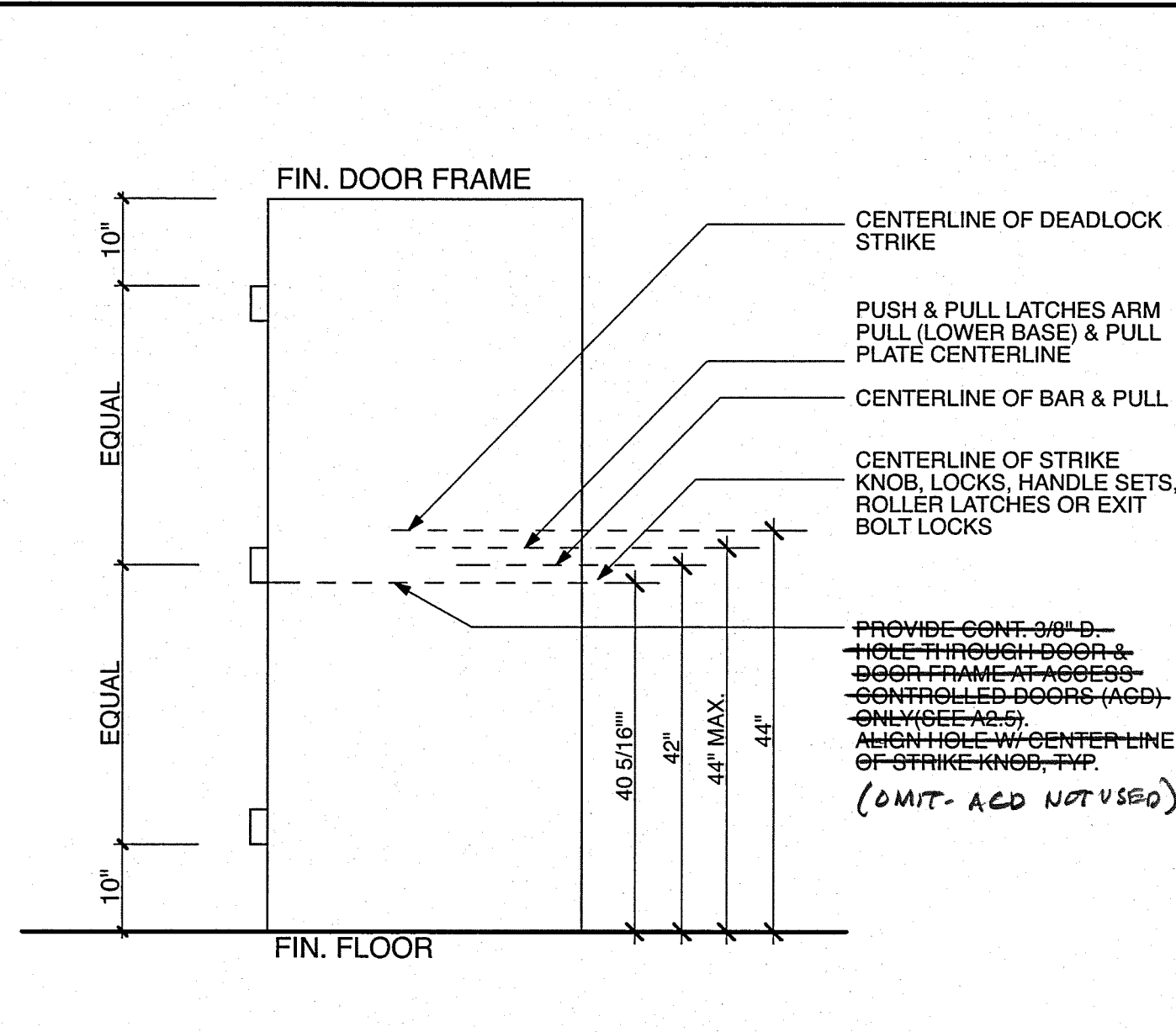


TYP. LIGHT COVE AT TOILET RMS - NON-RATED CLG.  
N.T.S.

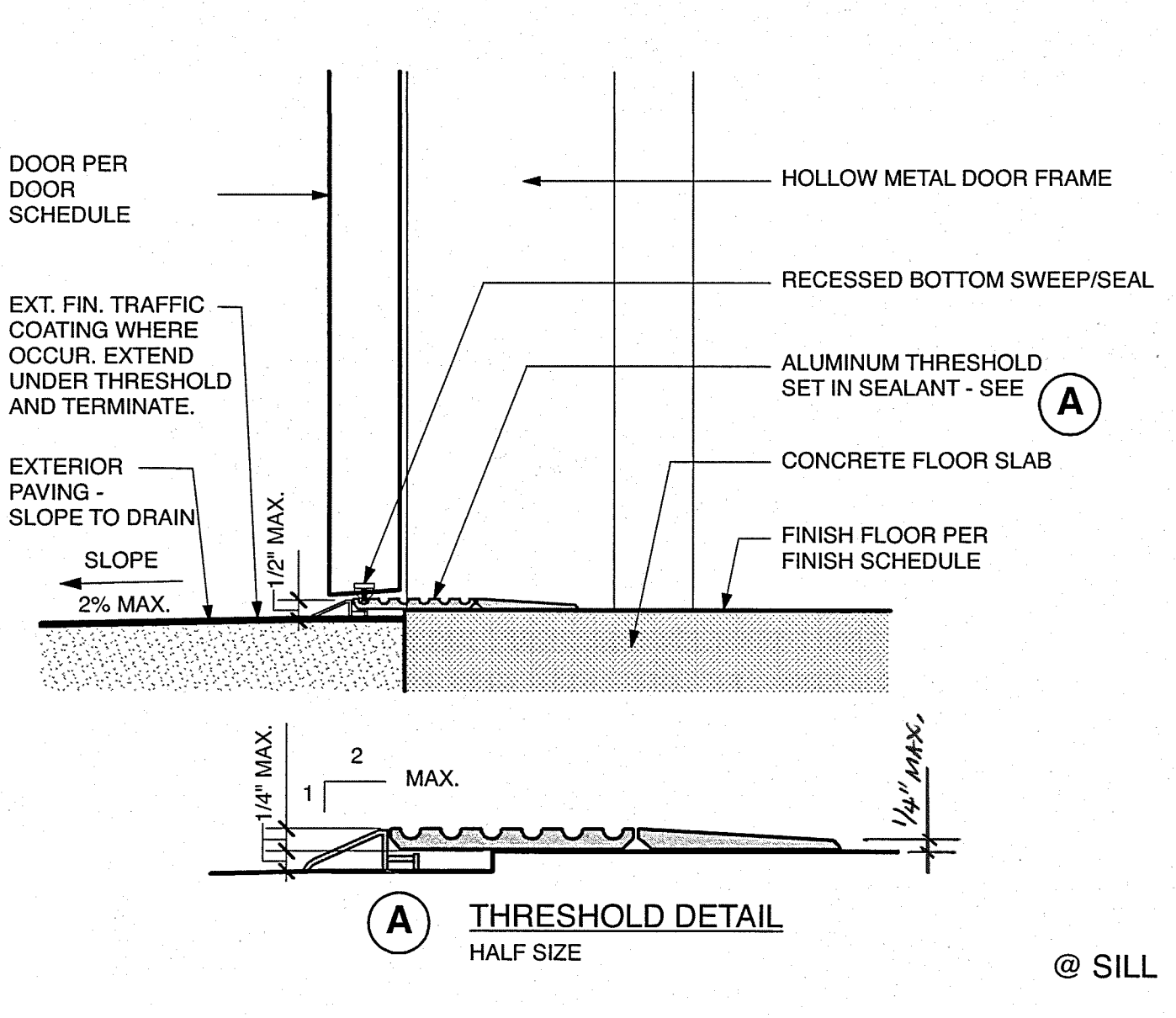


TYP. CEILING ACCESS PANEL  
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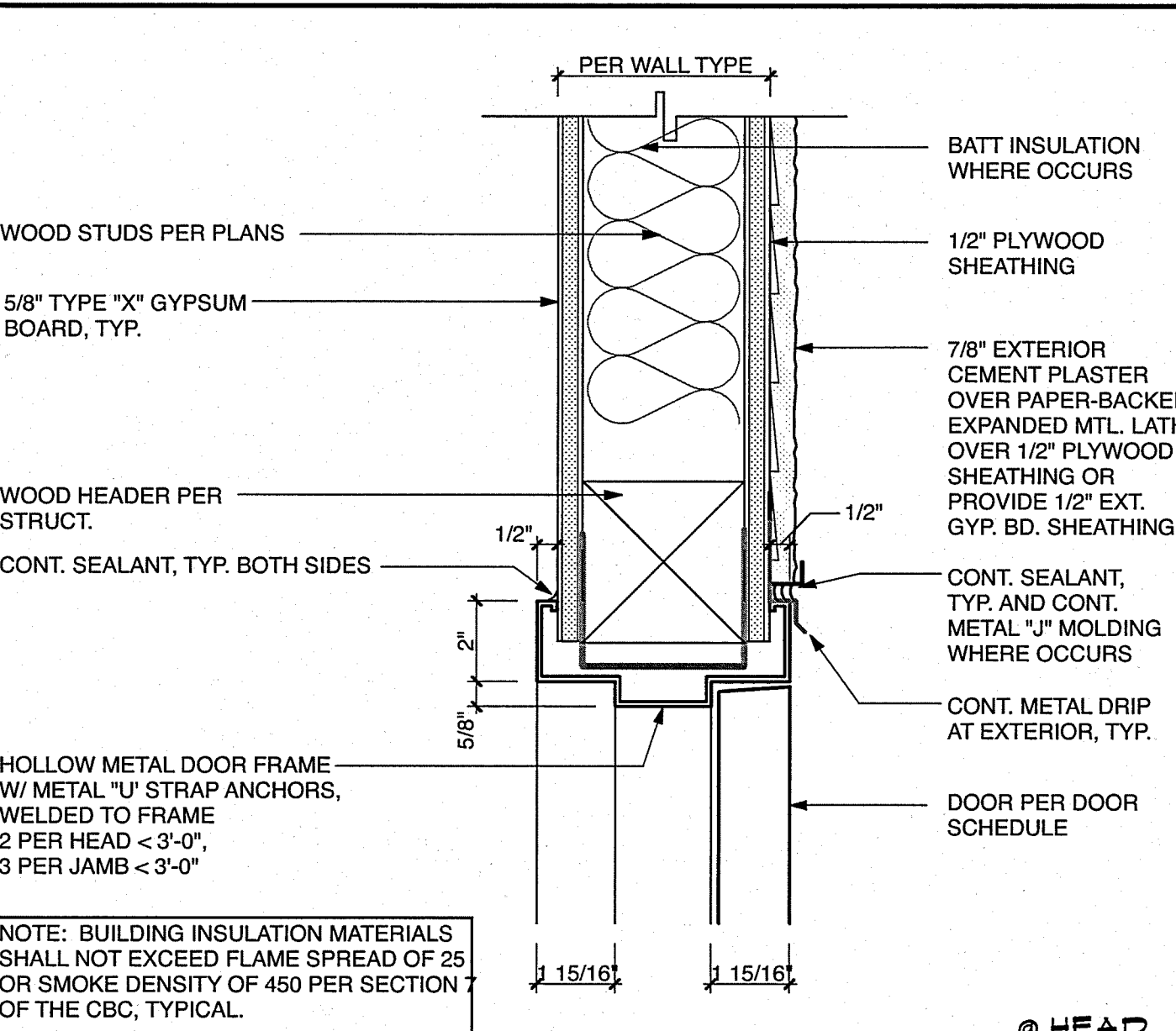
CONSULTANT  
 REVISIONS  
 DATE  
 NO.  
 SPENCER / HOSKINS associates  
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 Jay R. Tittle, AIA, Architect, C-12955  
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 LICENSED ARCHITECT  
 STATE OF CALIFORNIA  
 VINCENT J. COLE  
 REN. 02/11  
 07-06-07  
 DATE  
 FOR NO. 2007-SH95-00  
 DRAWN KK.YCL  
 CHECKED  
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 SHEET NO. A9.4  
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 CLAYPOOL BUILDING RECONSTRUCTION  
 PALO VERDE COLLEGE, NEEDLES CENTER  
 PALO VERDE COMMUNITY COLLEGE DISTRICT  
 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363  
 JVT



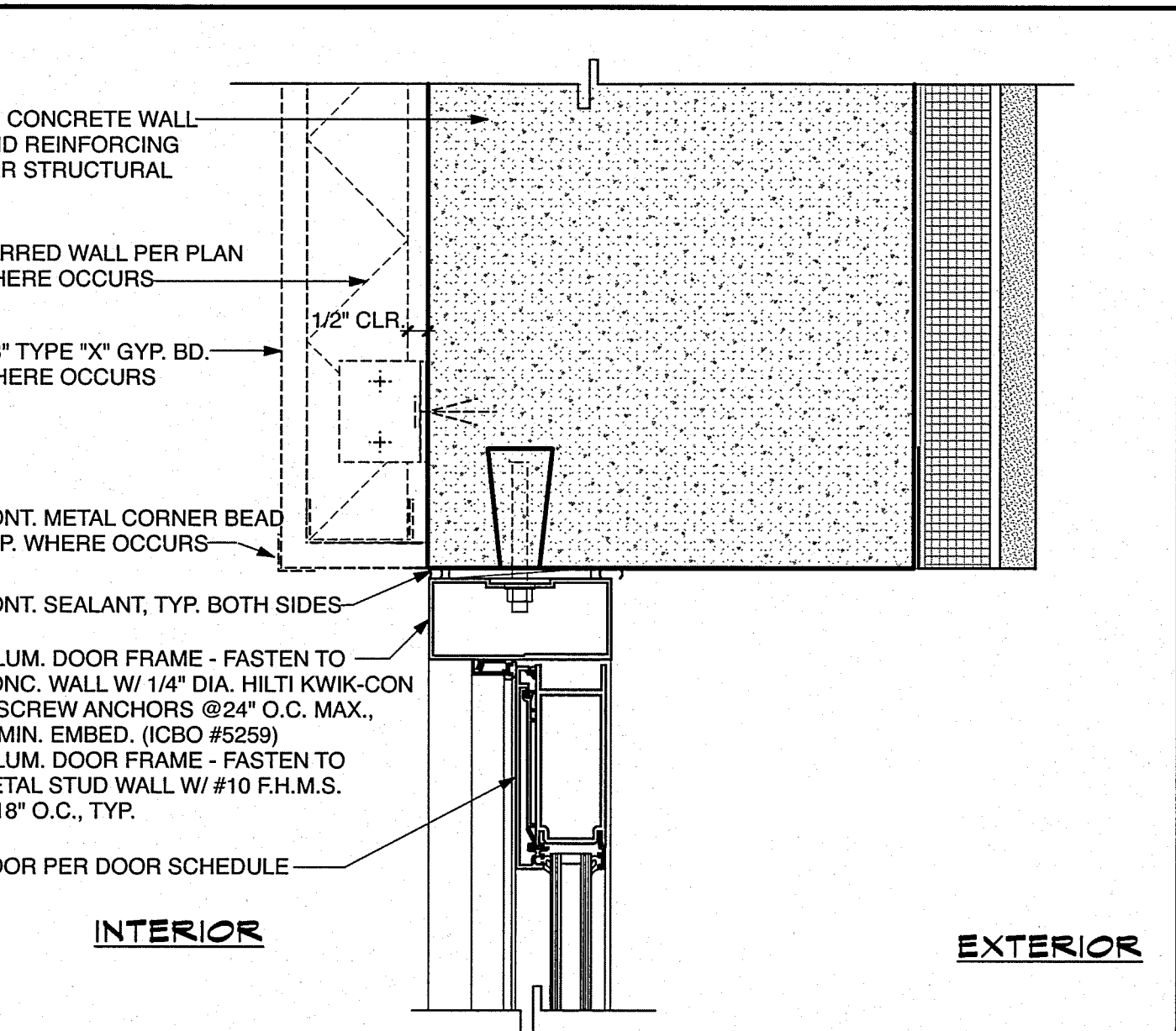
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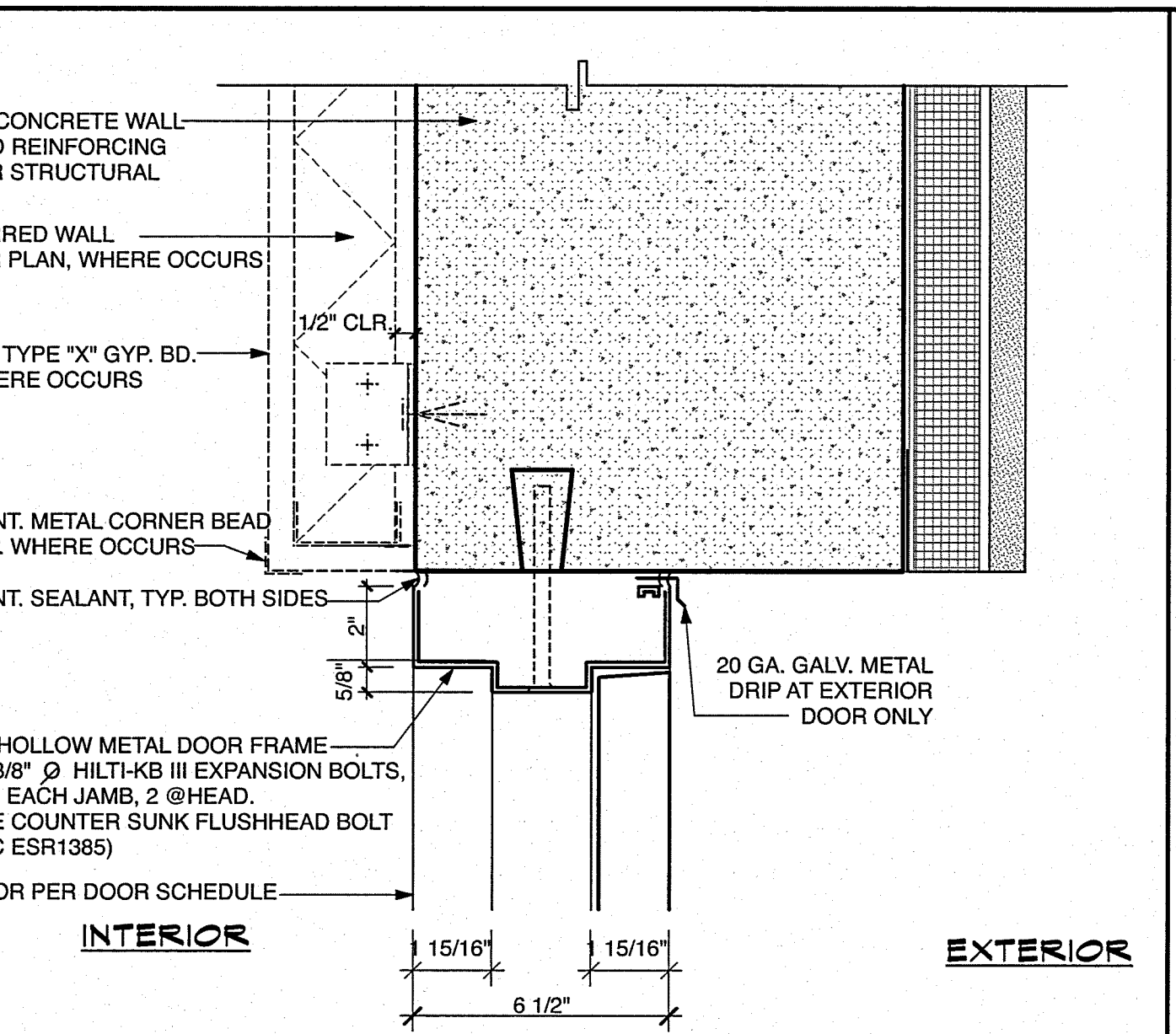
TYP. THRESHOLD AT EXTERIOR DOORS  
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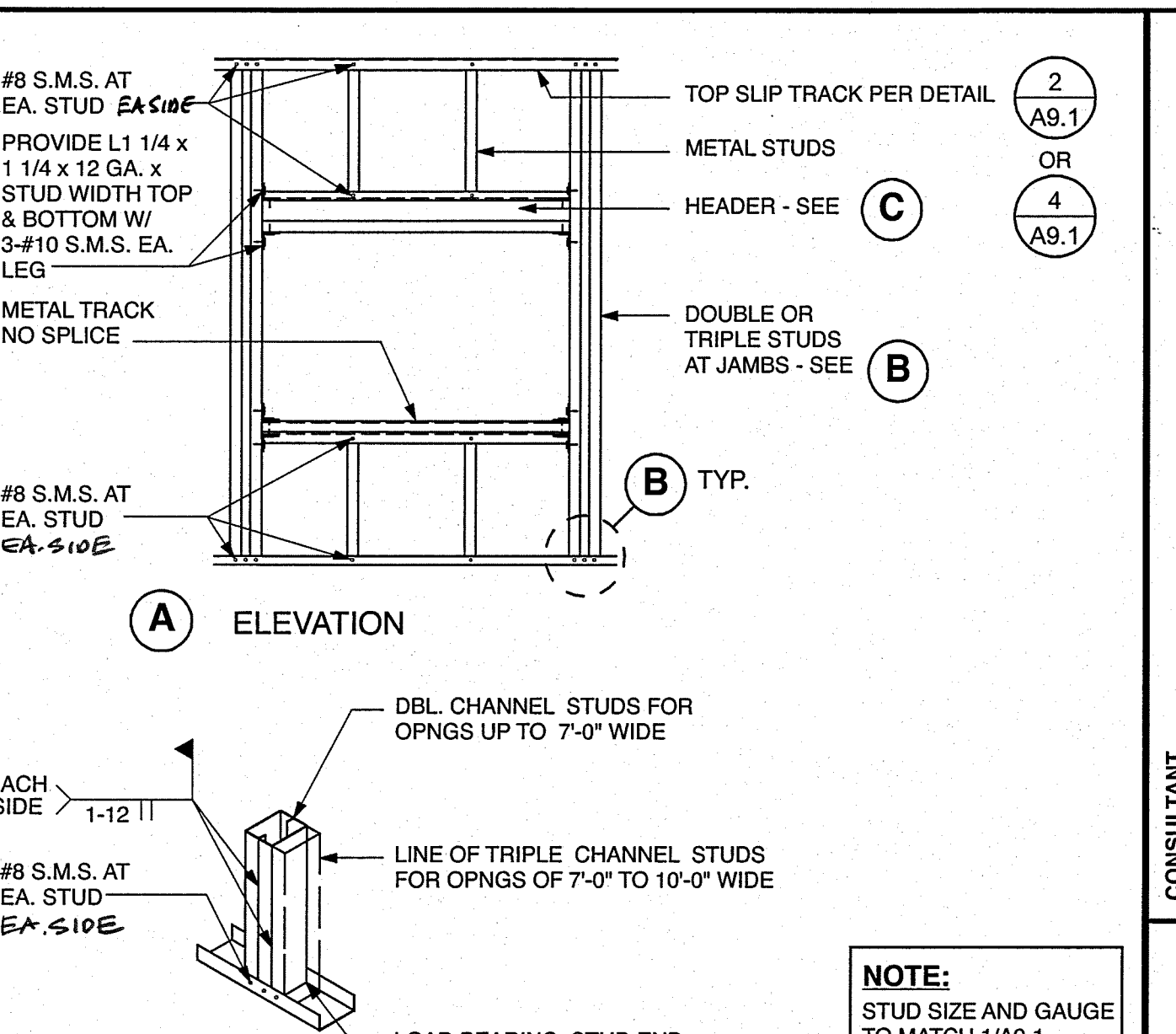
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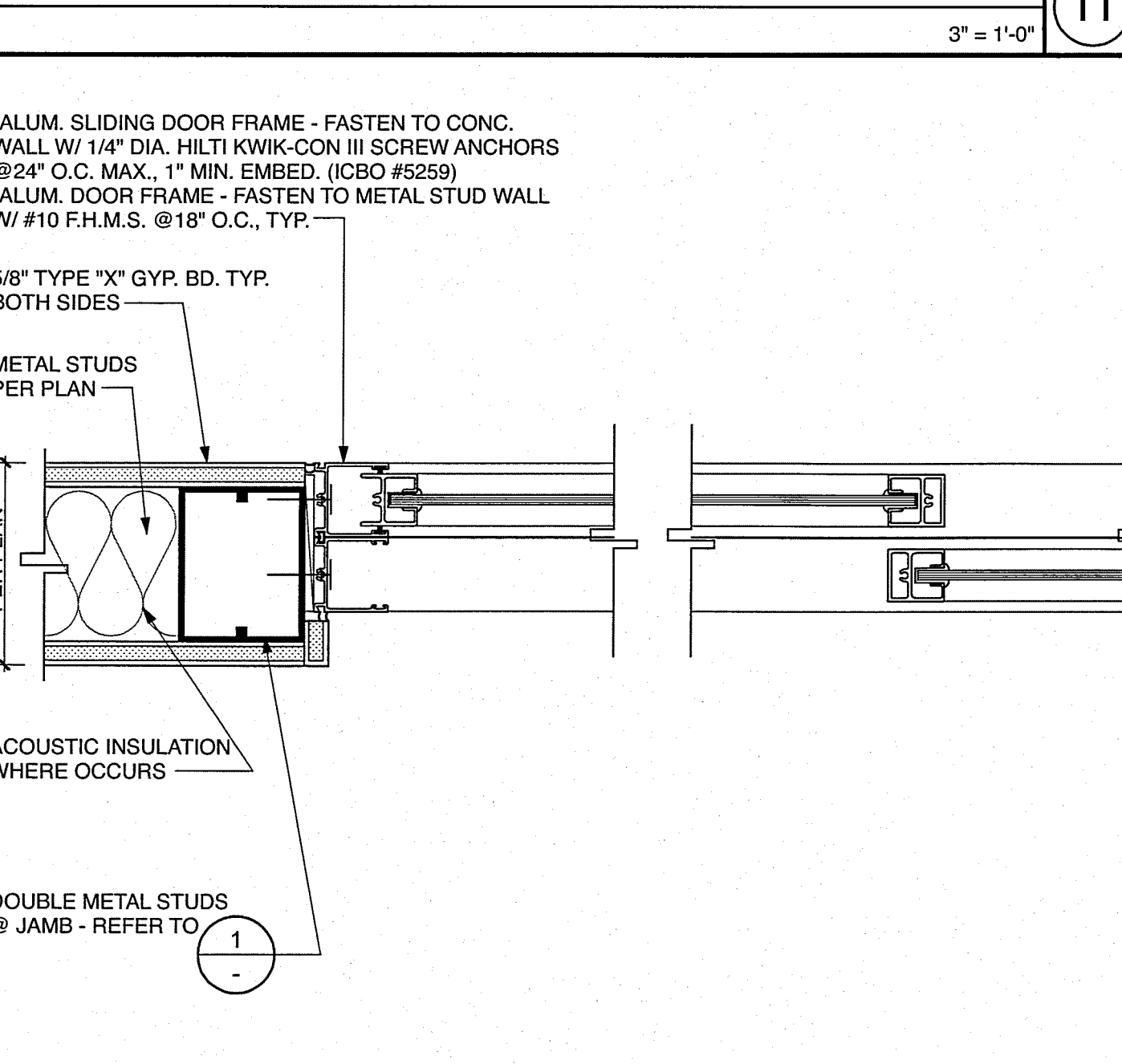
TYP. ALUMINUM FRAME DOOR @ EXIST. CONC. WALL  
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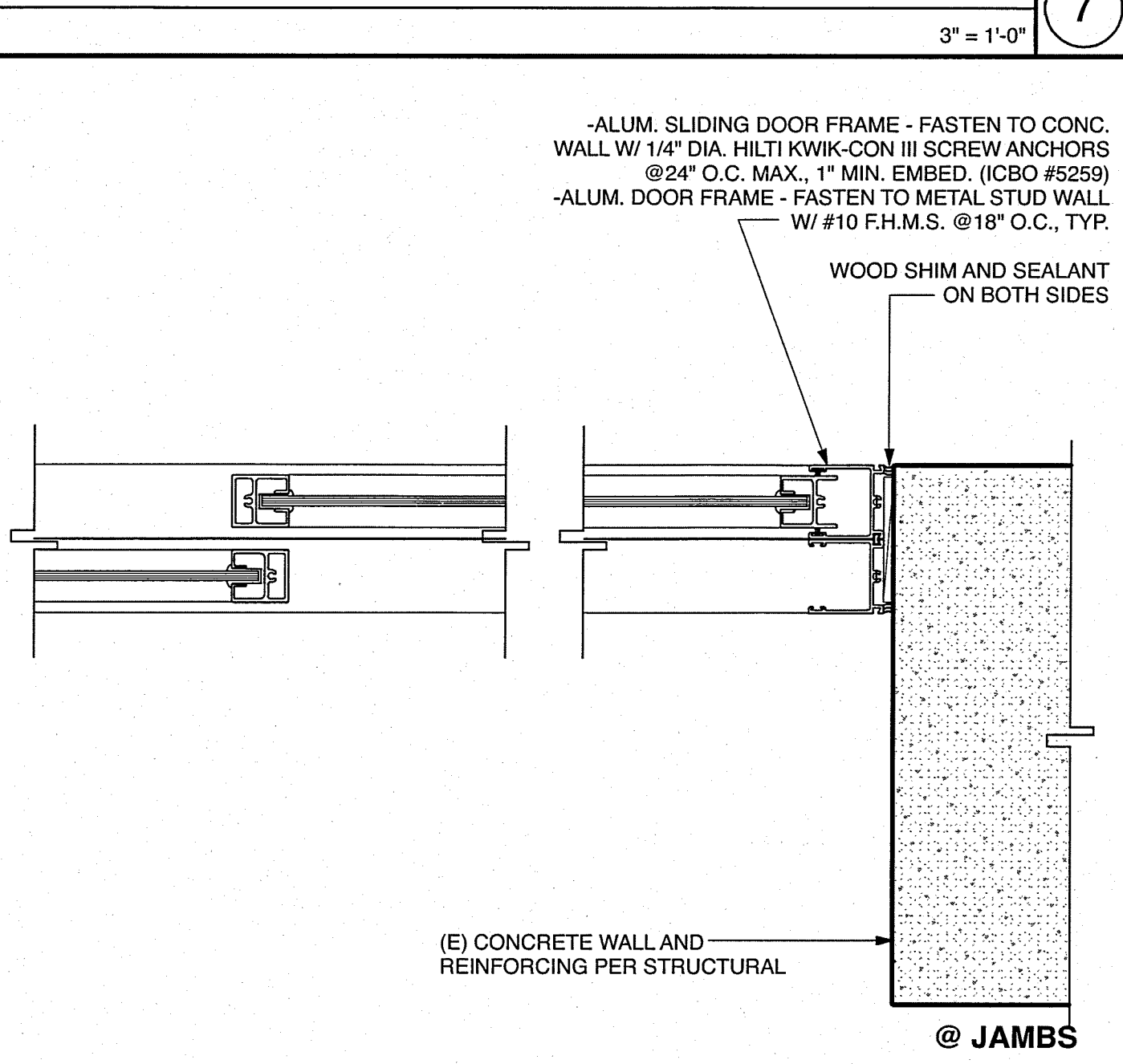
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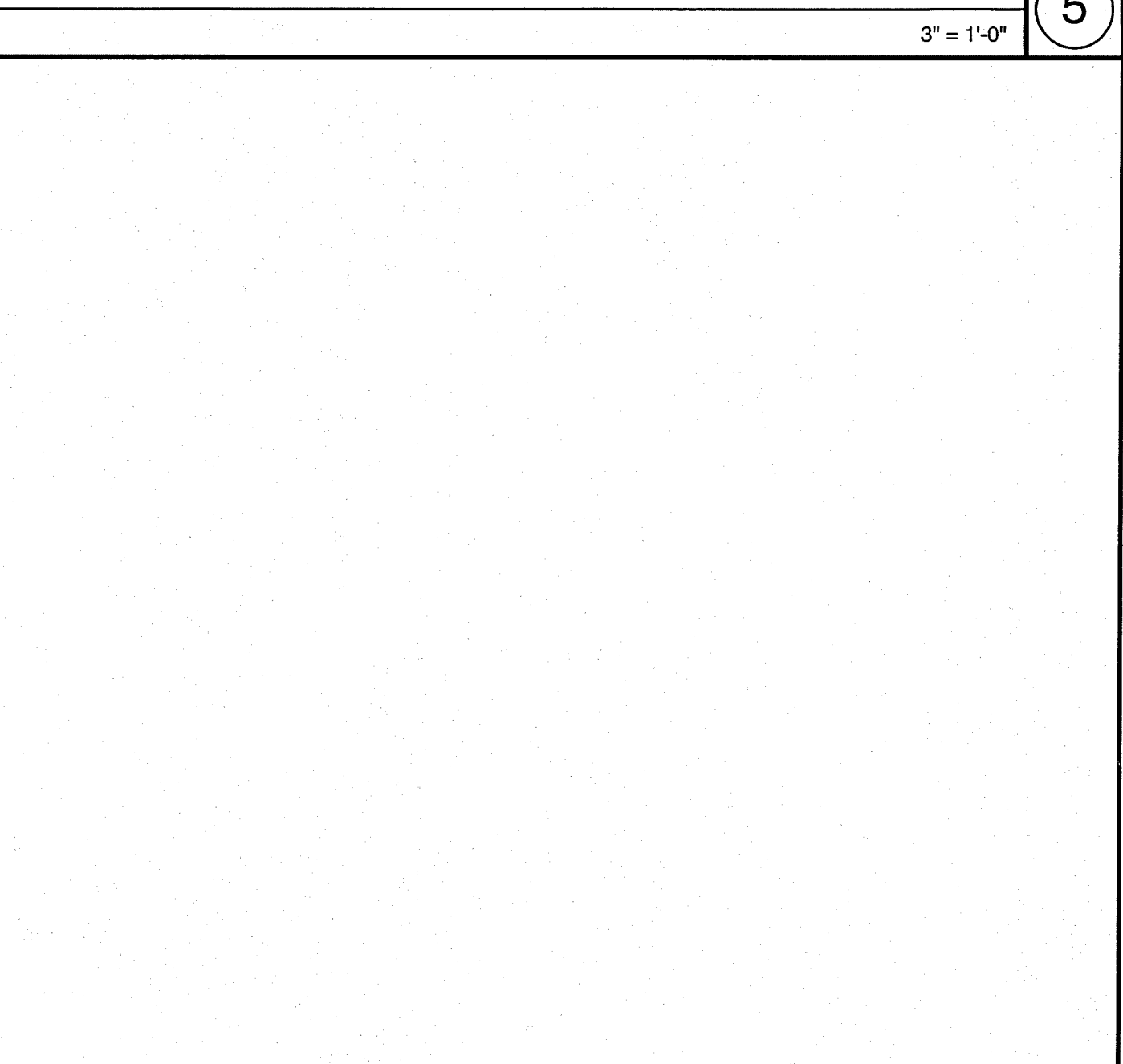
TYP. INTERIORS METAL STUD WALL OPENING DETAIL  
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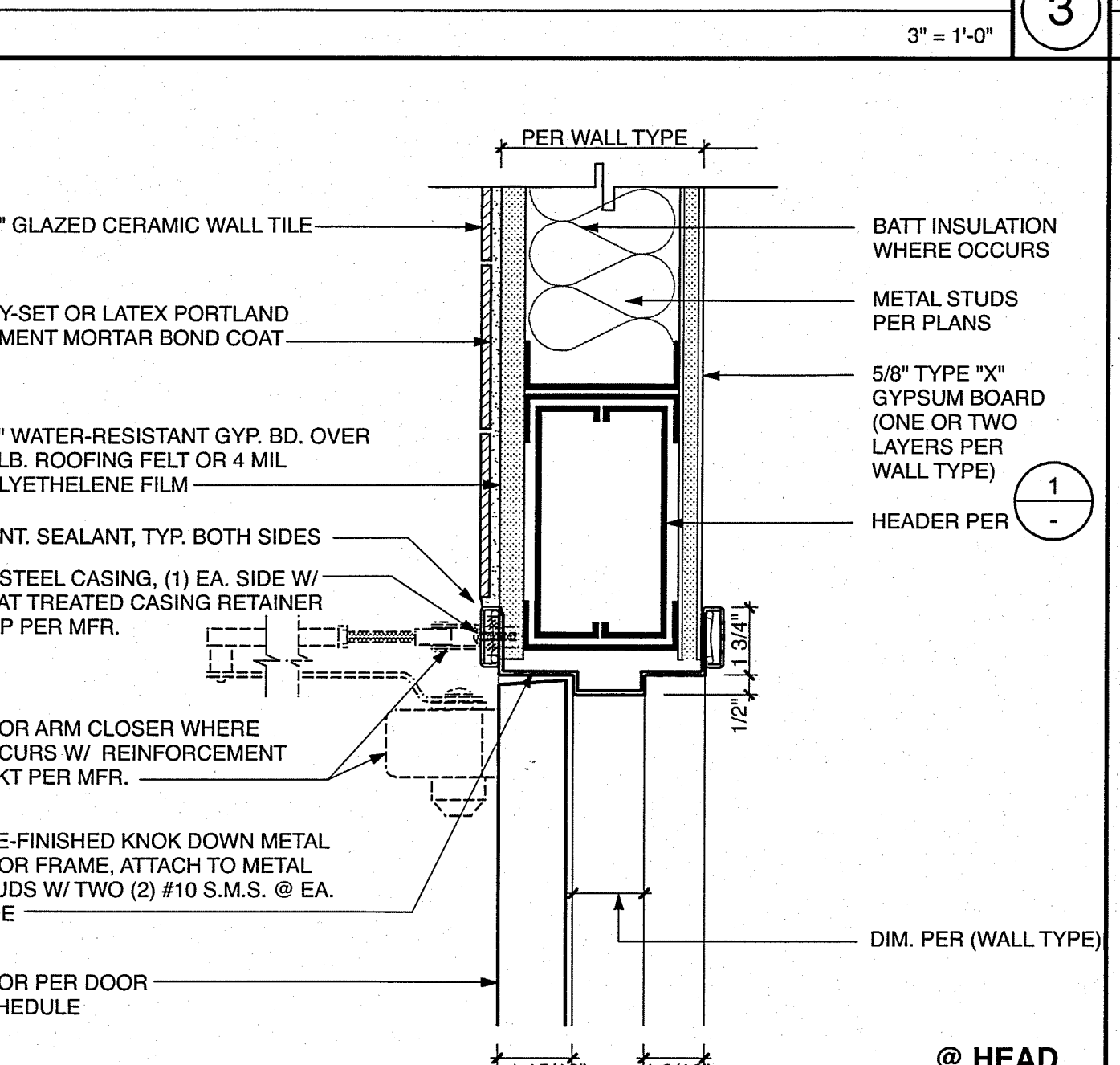
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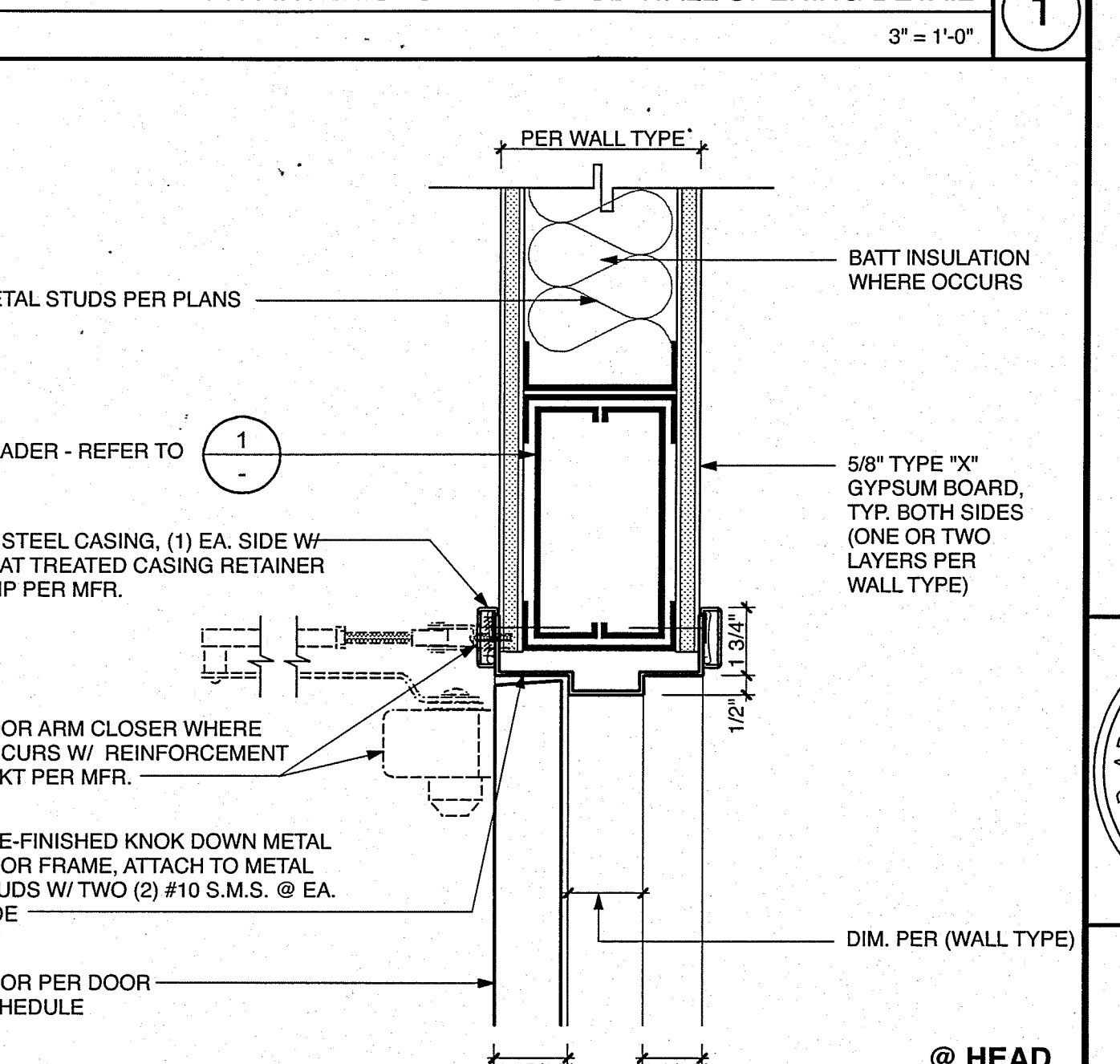
ALUMINUM SLIDING DOOR @ EXISTING CONC. WALL & NEW DRYWALL  
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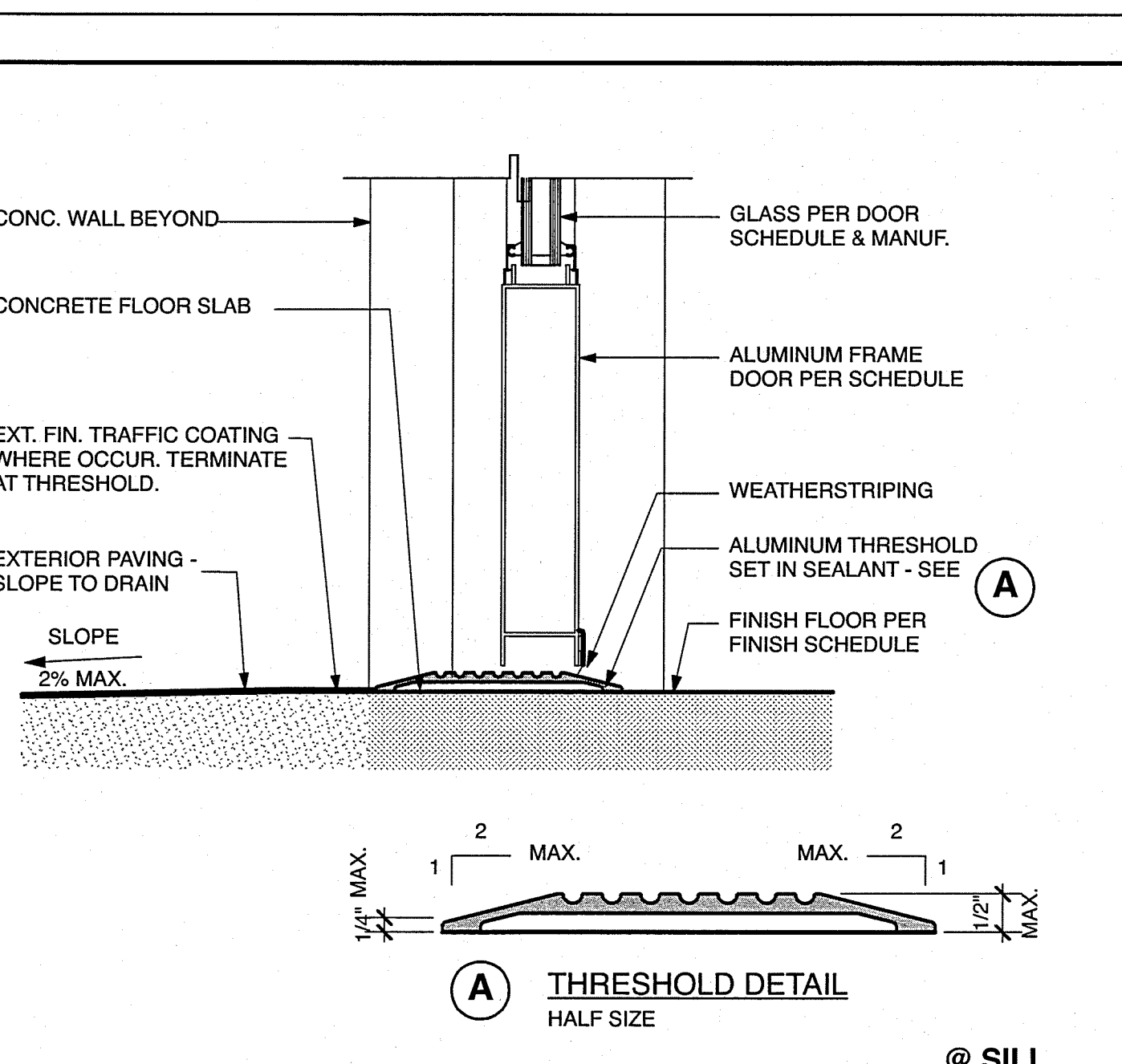
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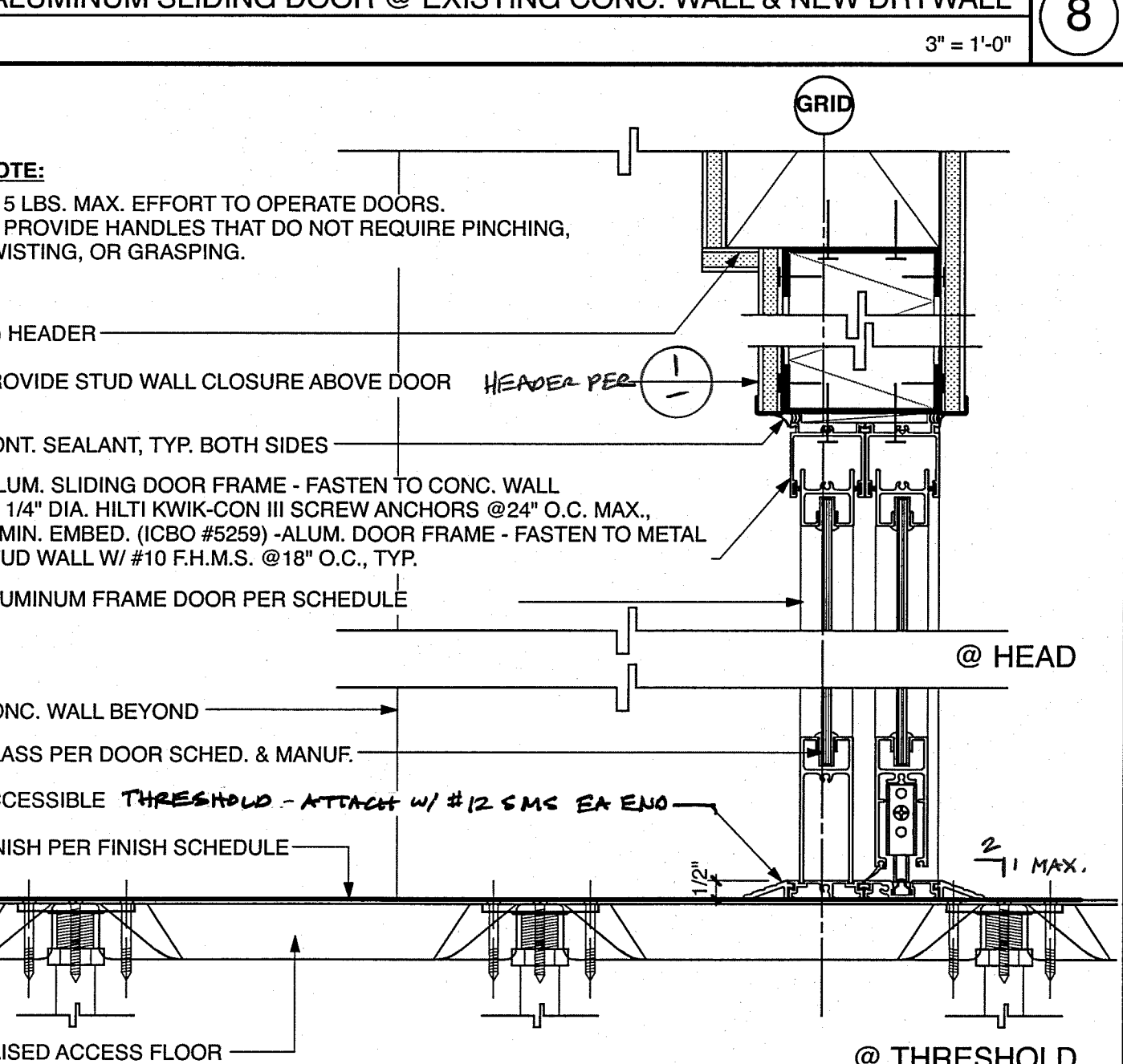
TYP. H.M. FRAME DOOR AT CERAMIC TILE WALL  
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TYP. INTERIOR PRE-FINISHED METAL FRAME DOOR  
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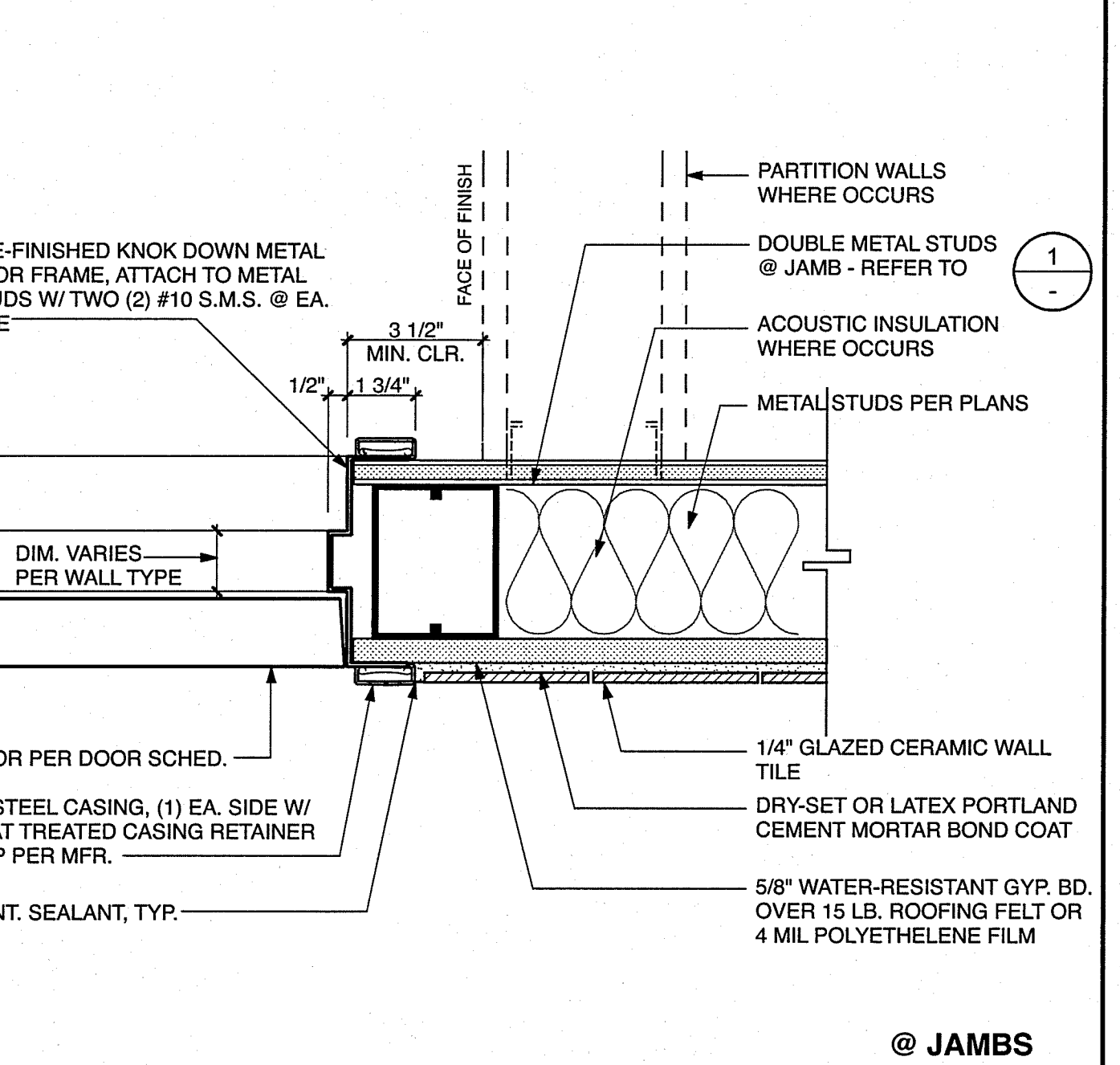
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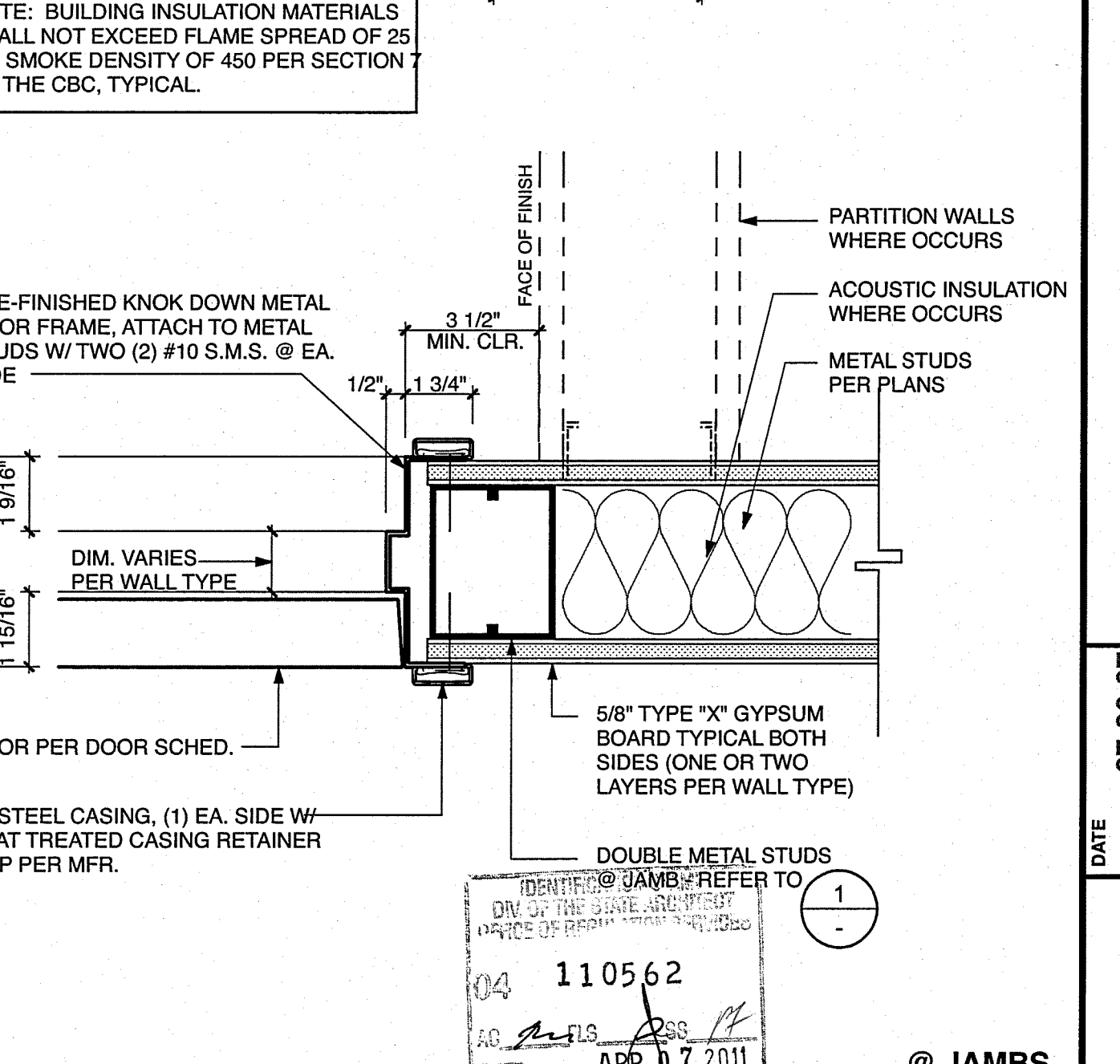
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TYP. H.M. FRAME DOOR AT CERAMIC TILE WALL  
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TYP. INTERIOR PRE-FINISHED METAL FRAME DOOR  
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TYP. INTERIORS METAL STUD WALL OPENING DETAIL  
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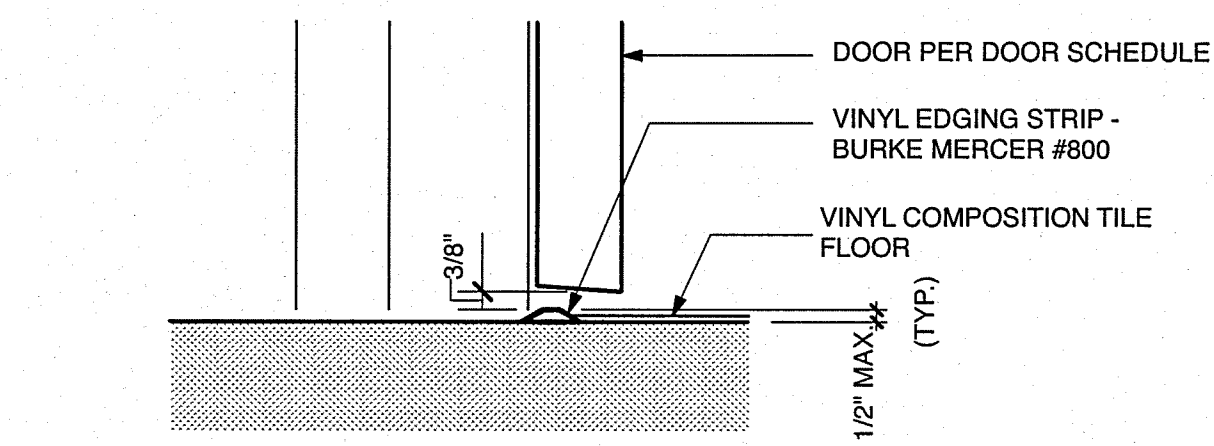
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 DATE  
 REVISIONS  
 NO.

**SPENCER / HOSKINS associates**  
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 Jay R. Title, AIA, Architect, C-12955  
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 985 Overland Court, Suite 100  
 San Dimas, California 91773-1718  
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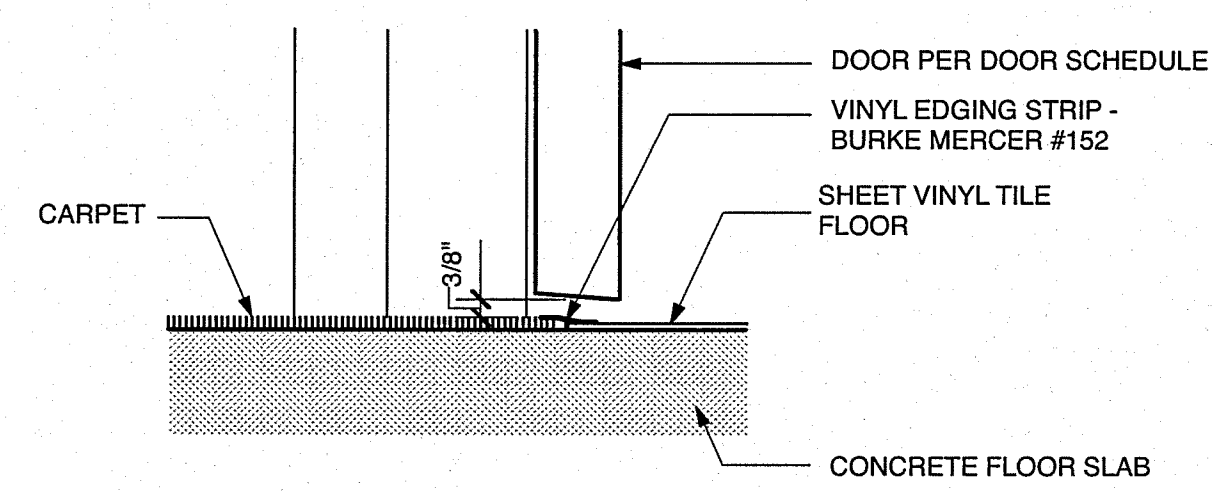
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 REN. 02/11

**CLAYPOOL BUILDING RECONSTRUCTION**  
**PALO VERDE COLLEGE, NEEDLES CENTER**  
 PALO VERDE COMMUNITY COLLEGE DISTRICT  
 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363

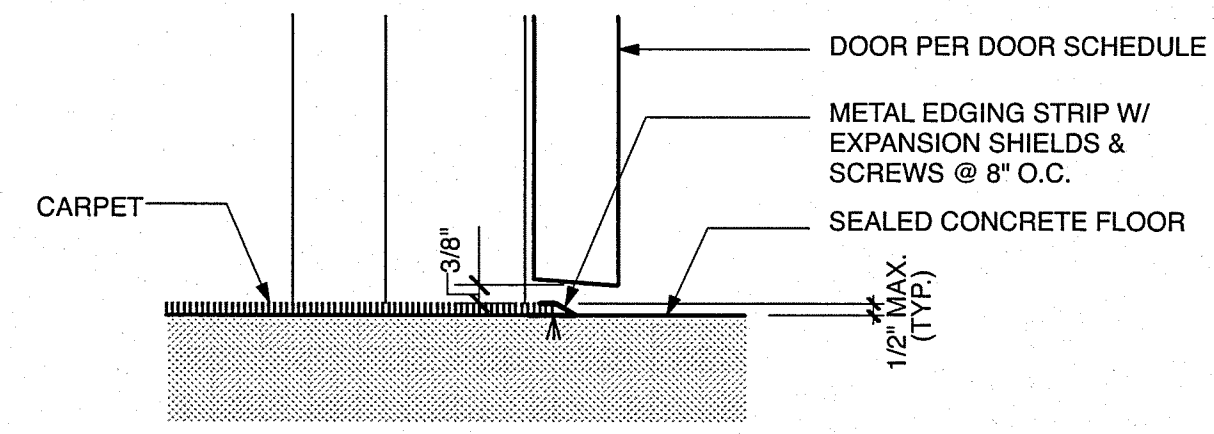
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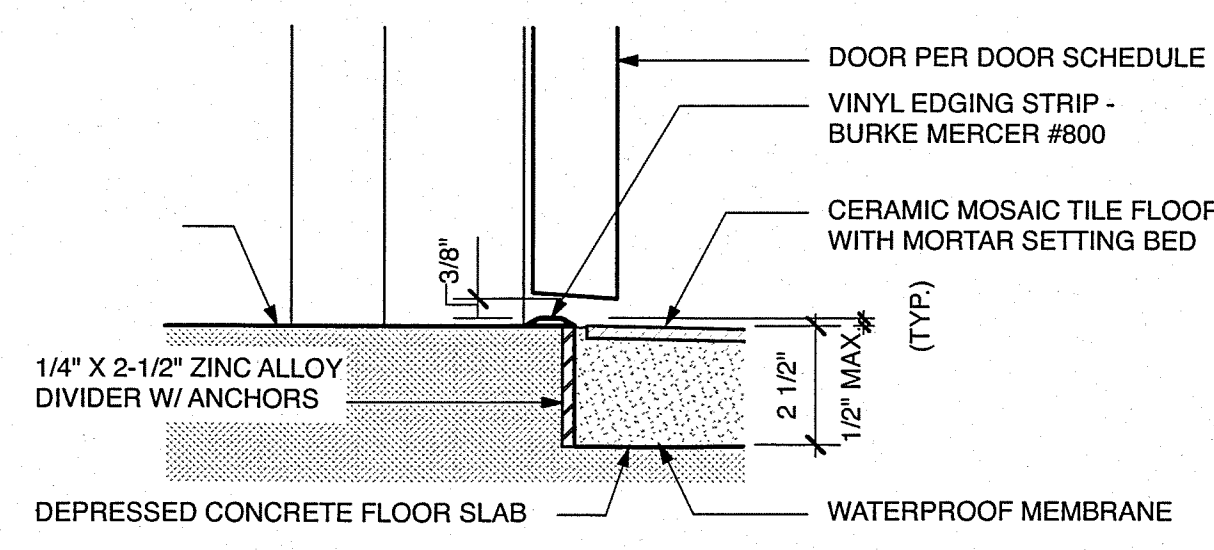
**(A) CONCRETE FLOORING to V.C.T.**



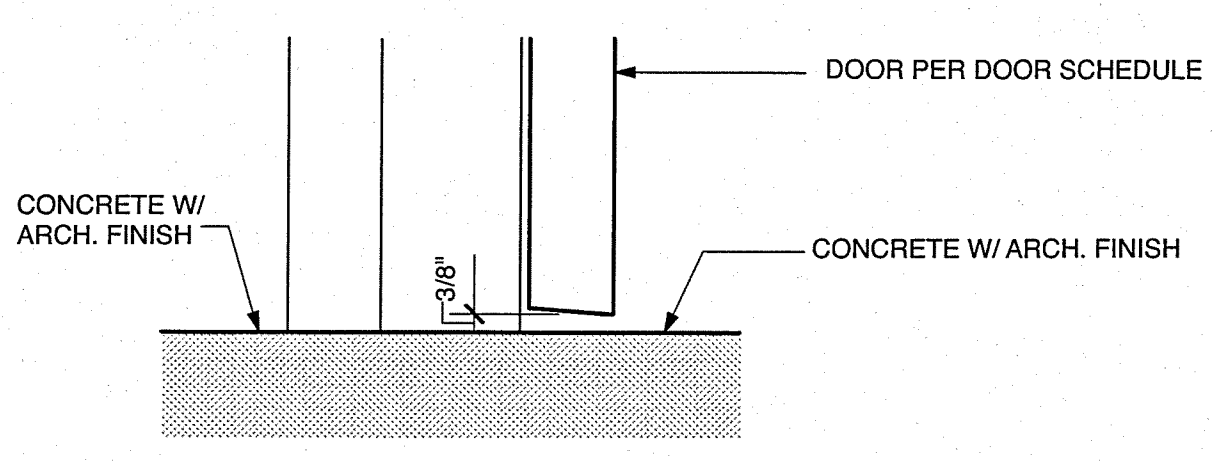
**(B) CARPET to SHEET VINYL TILE FLOORING**



**(C) CARPET to SEALED CONCRETE FLOOR**



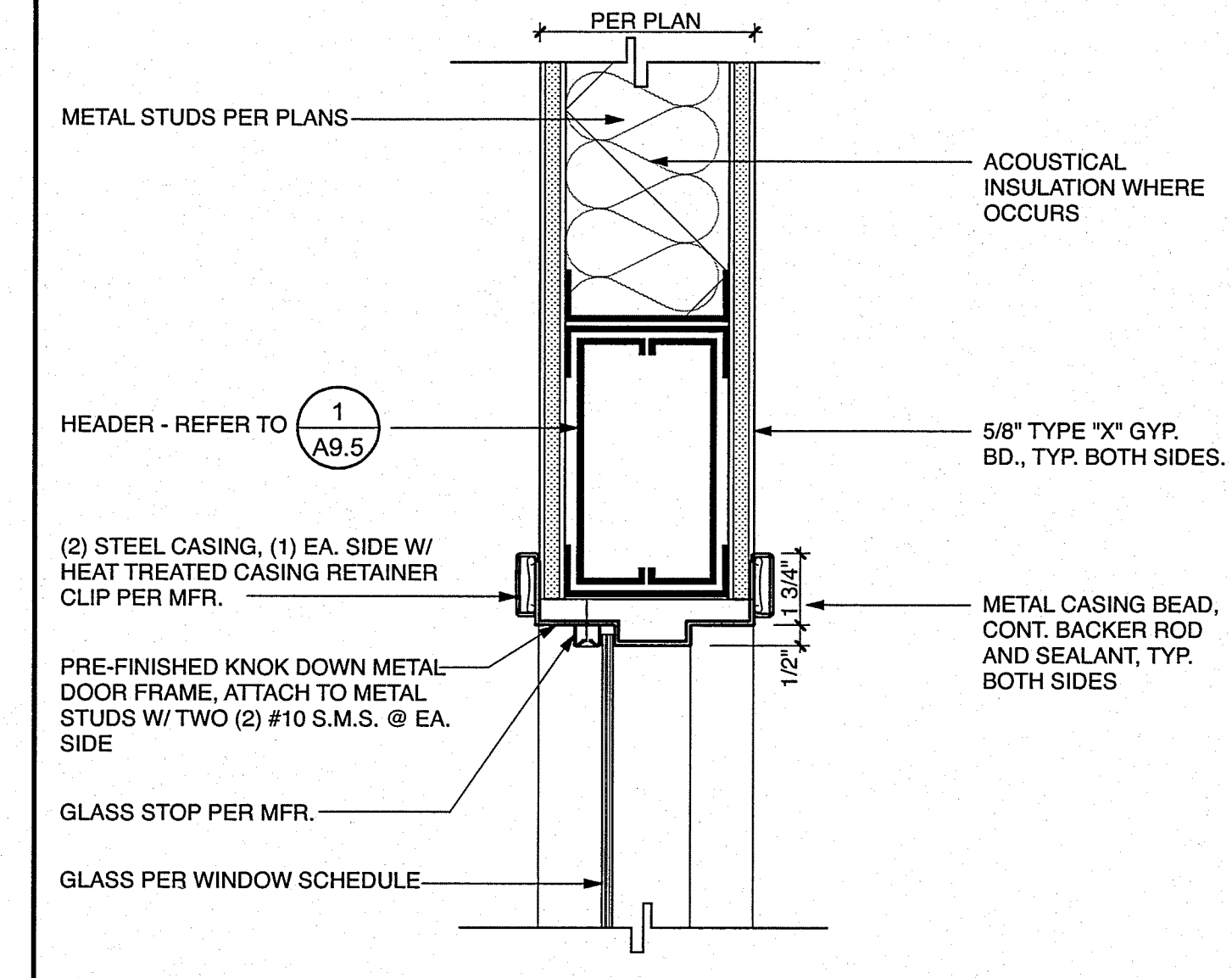
**(D) CONCRETE to CERAMIC MOSAIC TILE**



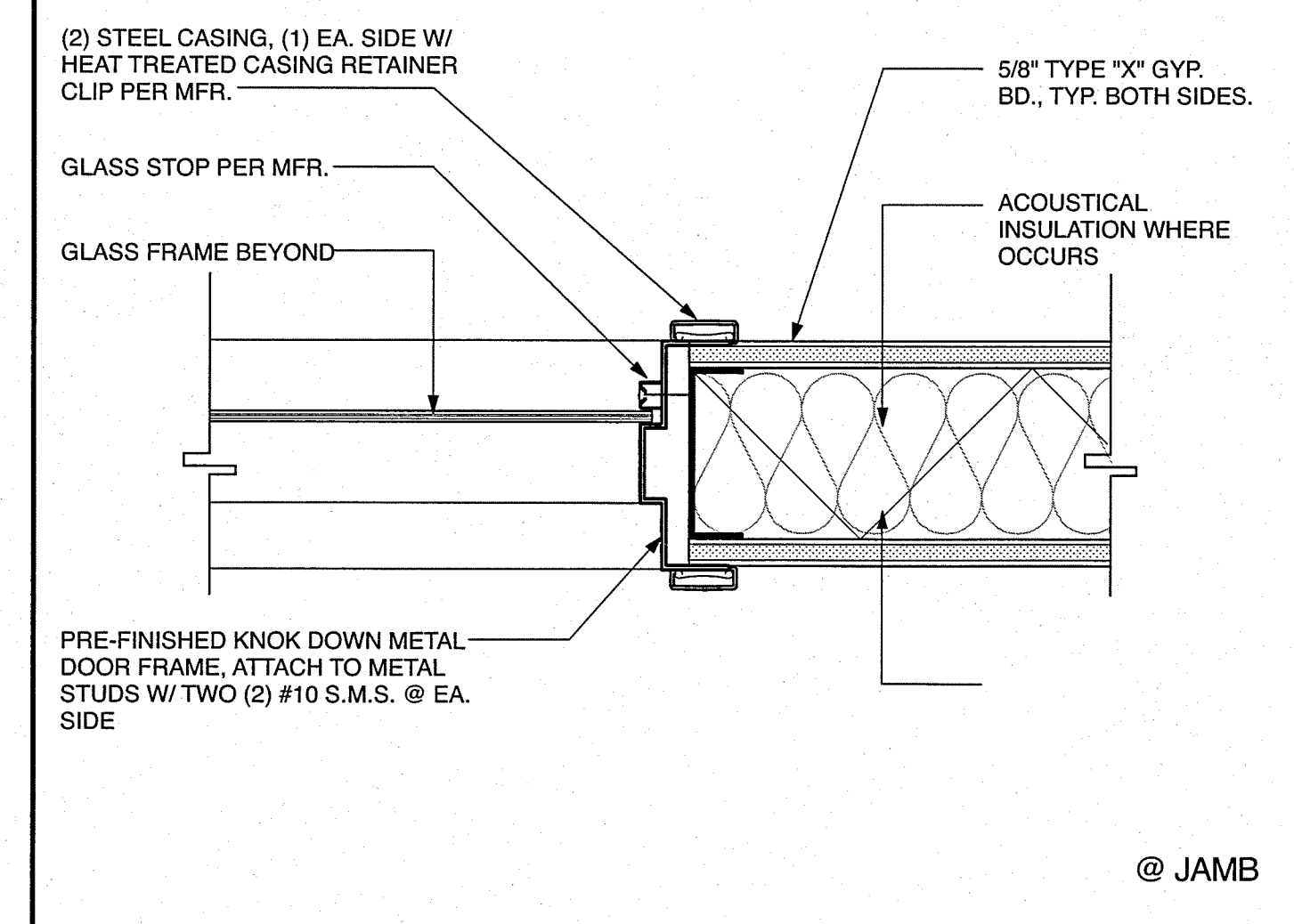
**(E) CONCRETE FLOORING to CONCRETE FLOORING**

NOTE: AT ALL ACCESSIBLE THRESHOLDS, PROVIDE A MAXIMUM OF 1/2-INCH IN HEIGHT AND BEVEL OR SLOPED AT AN ANGLE NOT TO EXCEED 45-DEGREES FROM THE HORIZONTAL PER C.B.C. SECTION 1115B.6.2.2. AND FIGURE 11B-32.  
VINYL EDGING STRIP COLOR TO BE SELECTED BY ARCHITECT FROM FULL COLOR LINE.

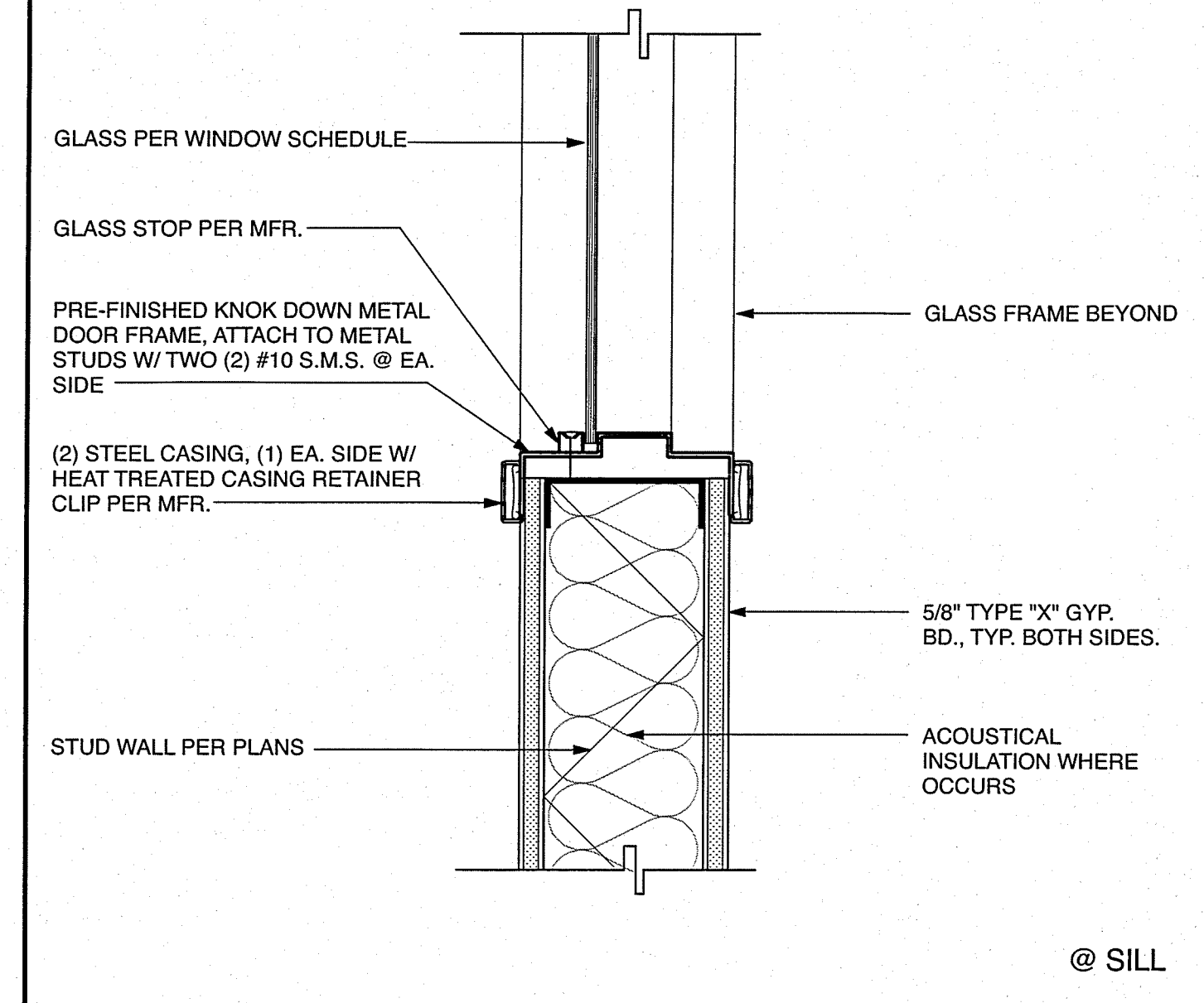
**TYP. DOOR THRESHOLDS**  
3" = 1'-0" **(11)**



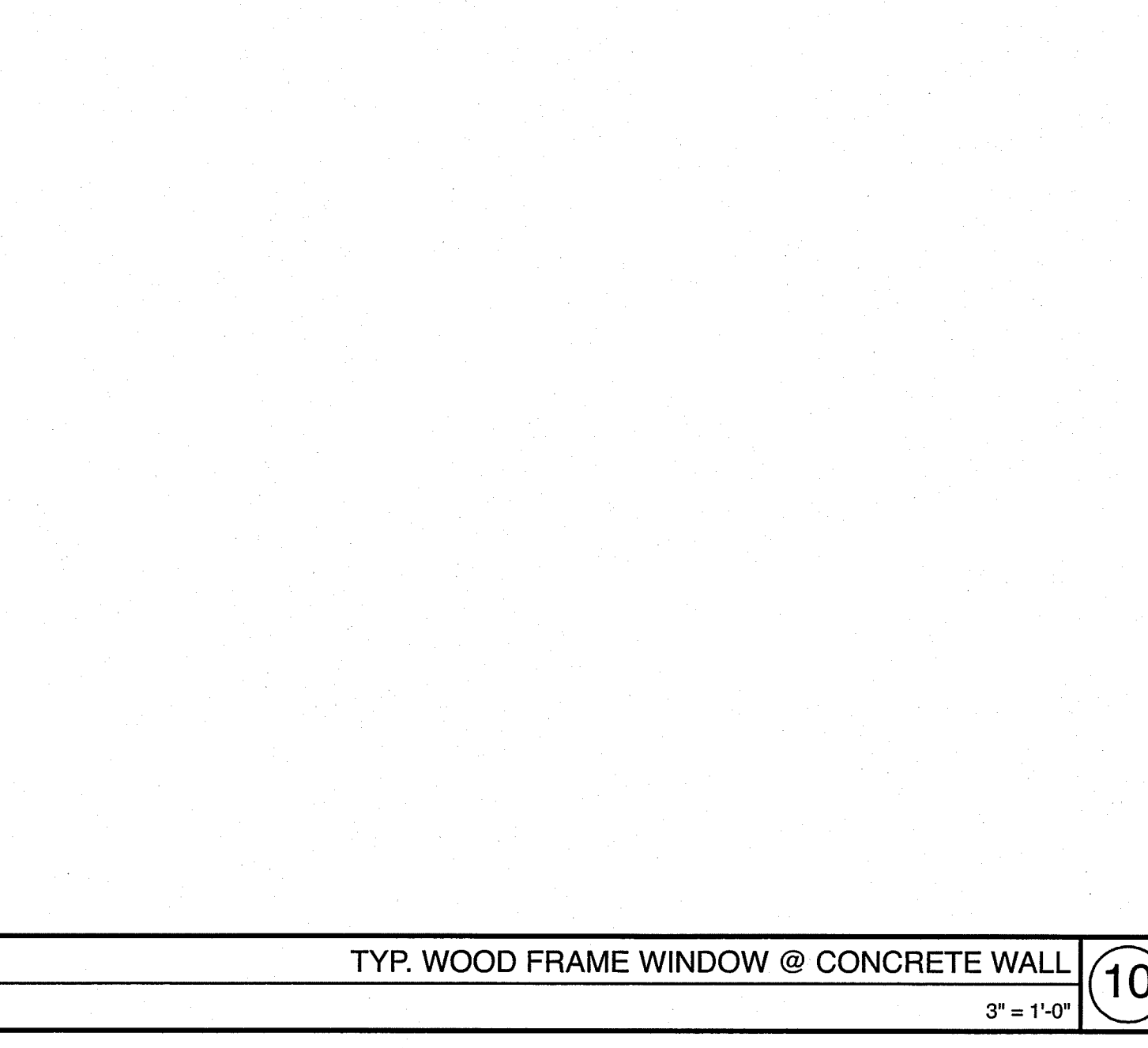
**TYP. PRE-FINISH METAL FRAME WINDOW @ STUD WALL**  
3" = 1'-0" **(7)**



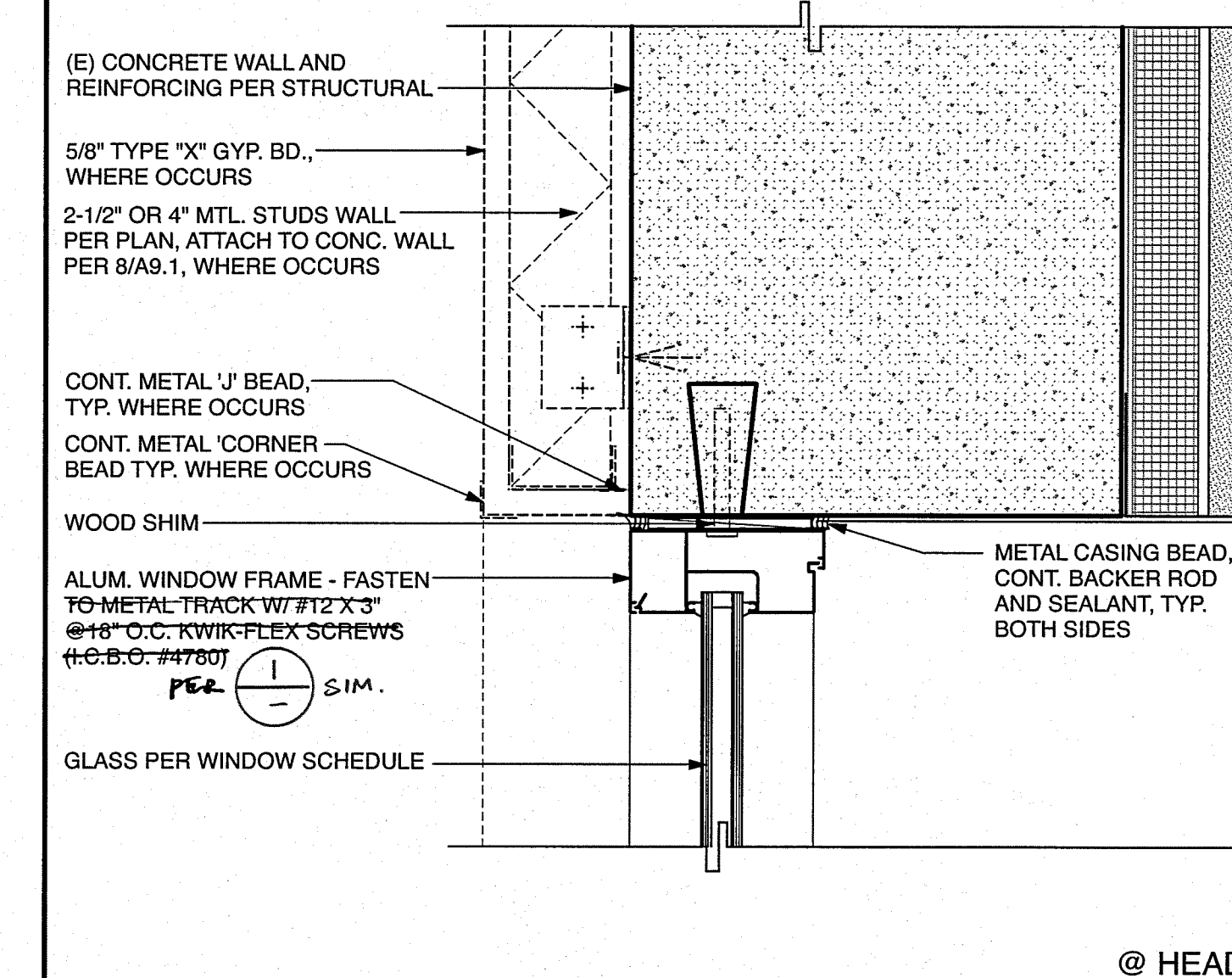
**TYP. PRE-FINISH METAL FRAME WINDOW @ STUD WALL**  
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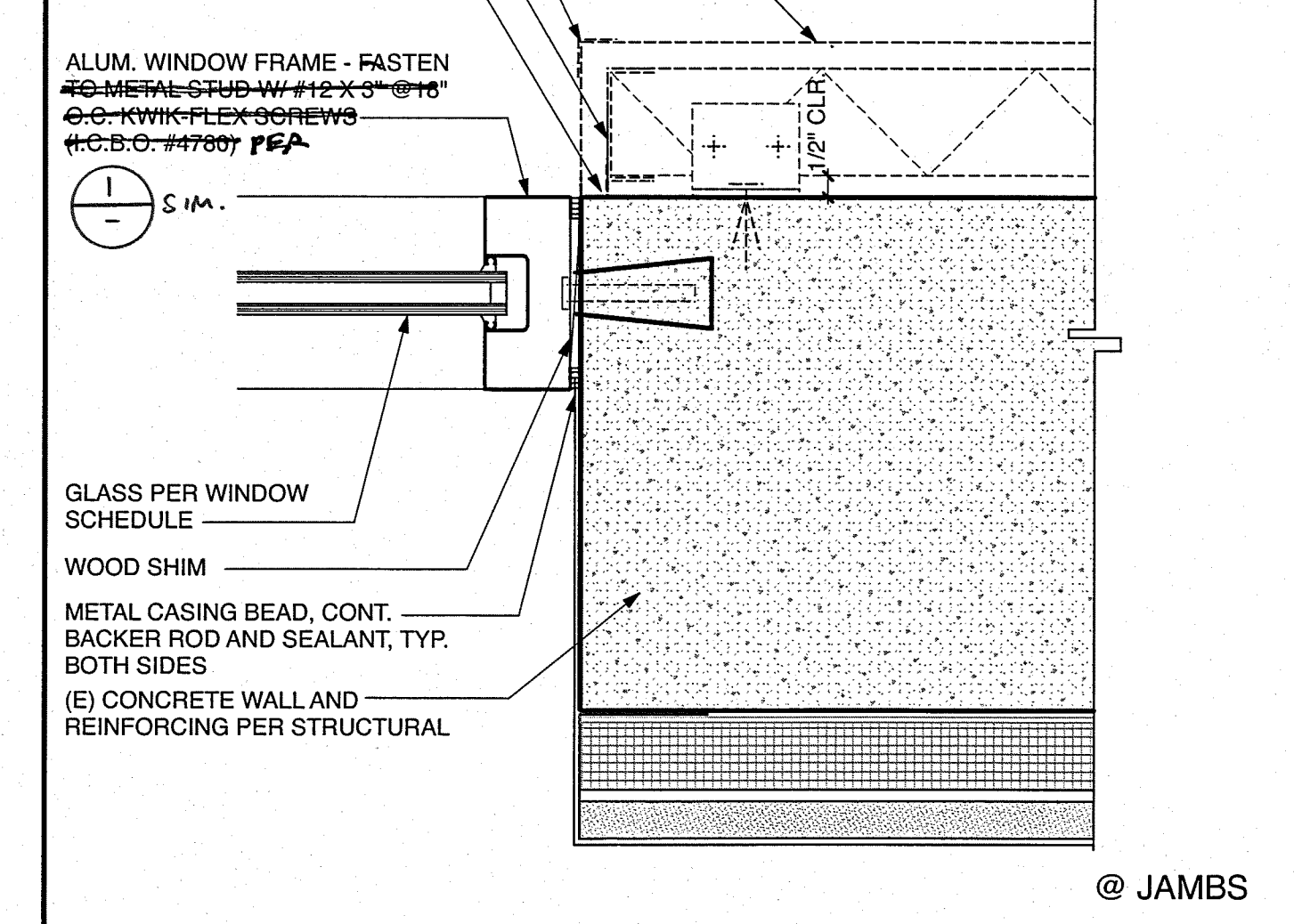
**TYP. PRE-FINISH METAL FRAME WINDOW @ STUD WALL**  
3" = 1'-0" **(9)**



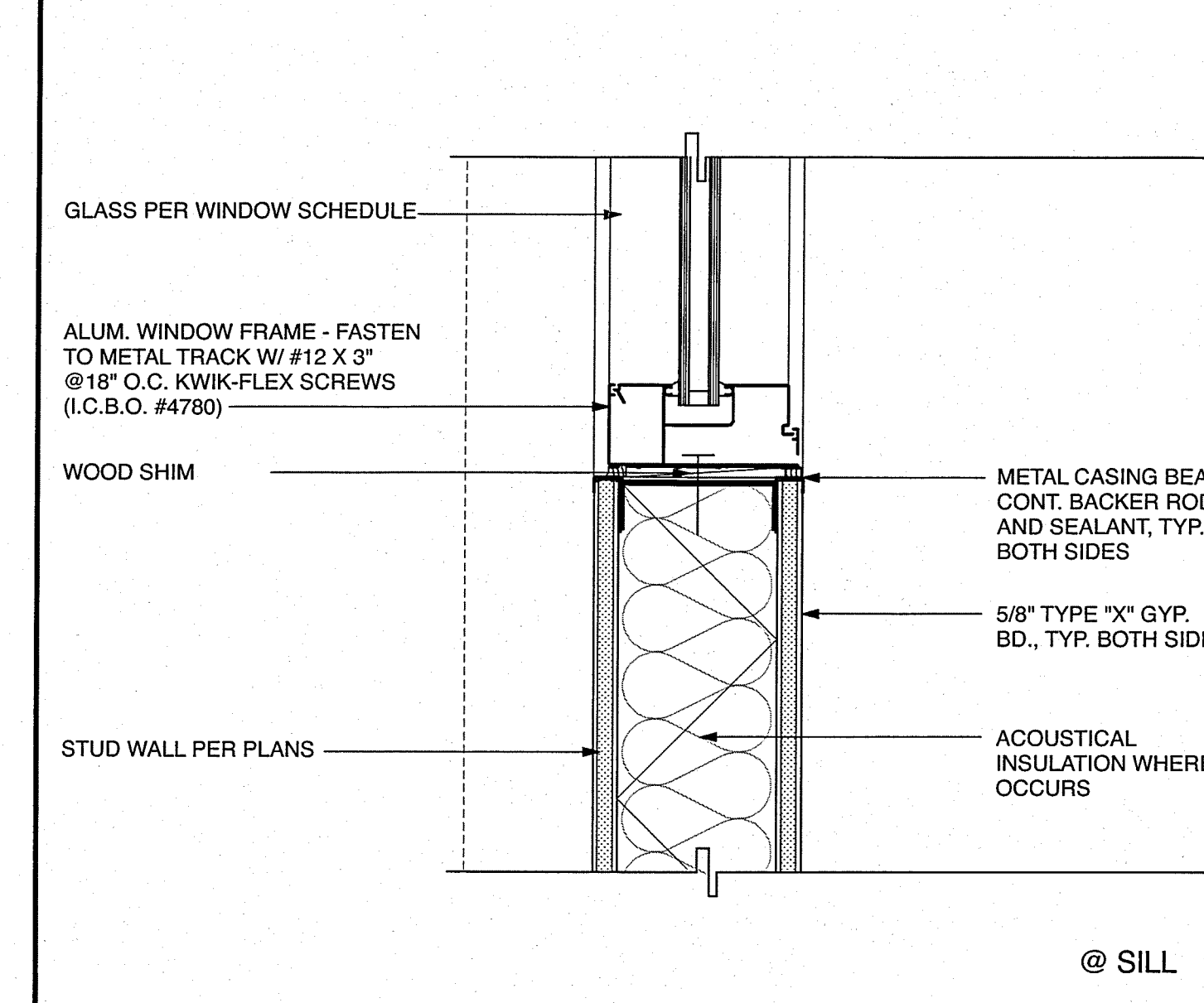
**TYP. WOOD FRAME WINDOW @ CONCRETE WALL**  
3" = 1'-0" **(10)**



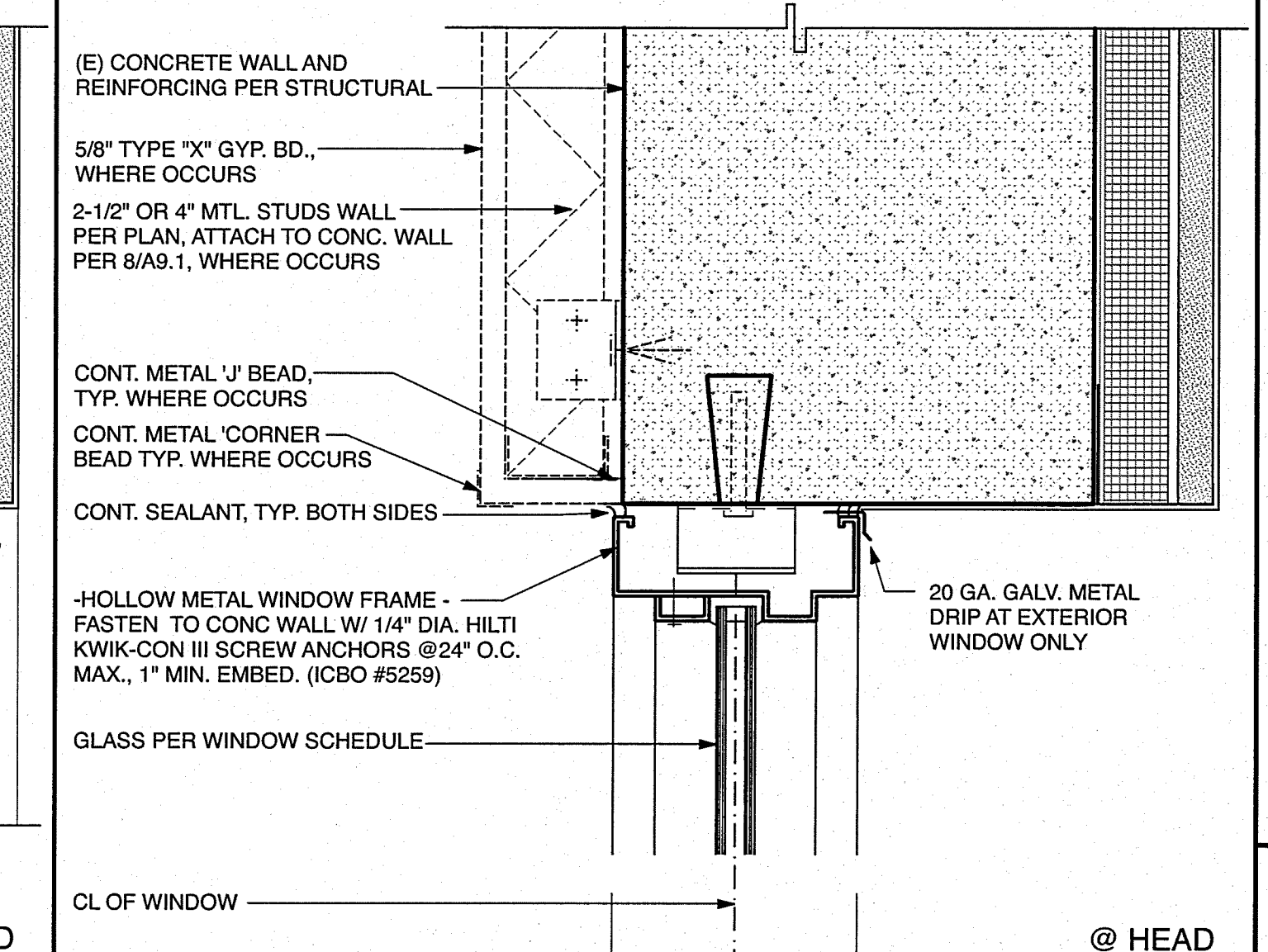
**TYP. ALUM. FRAME WINDOW AT CONG. WALL**  
3" = 1'-0" **(4)**



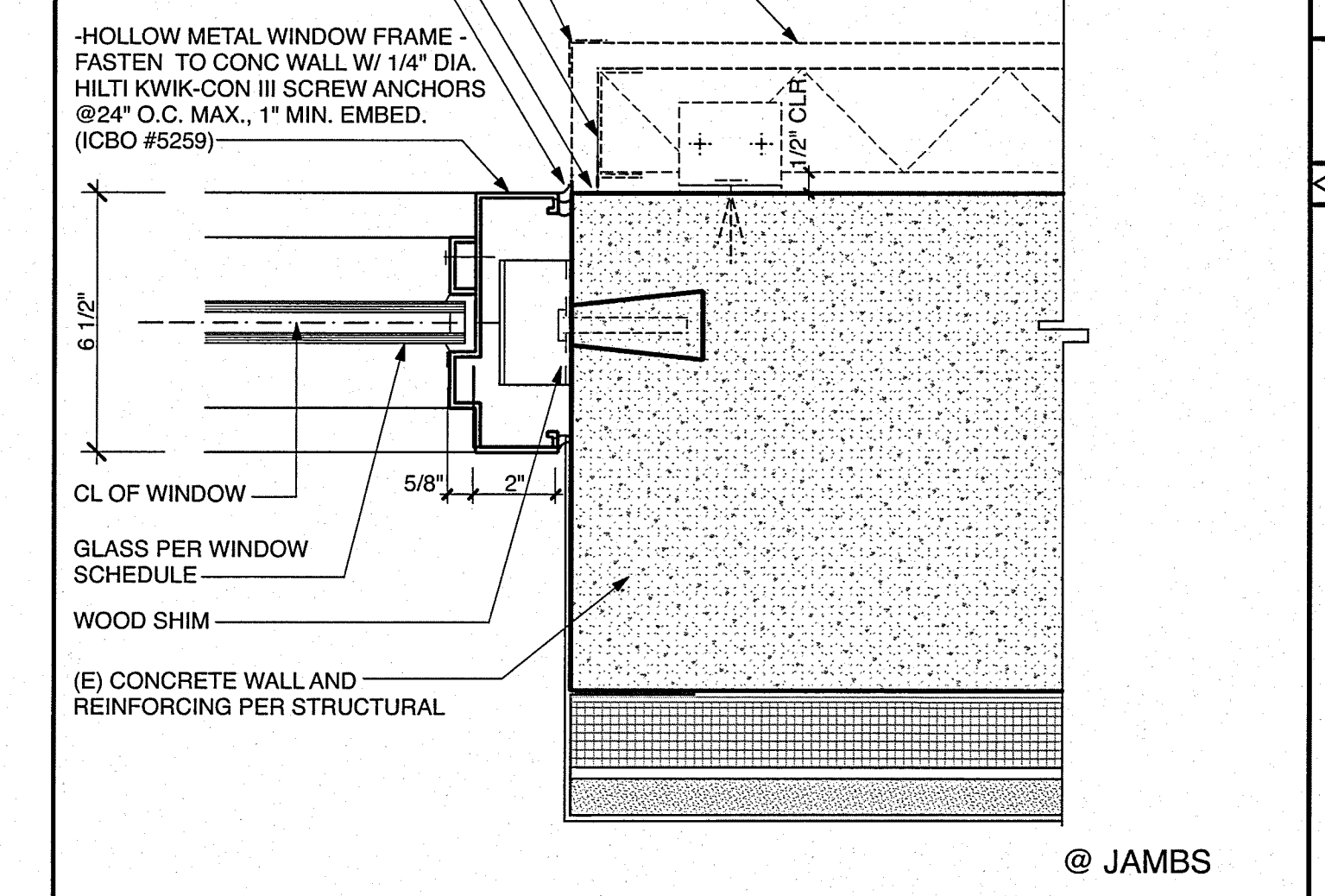
**TYP. ALUMINUM FRAME WINDOW @ NORTH ELEVATION**  
3" = 1'-0" **(5)**



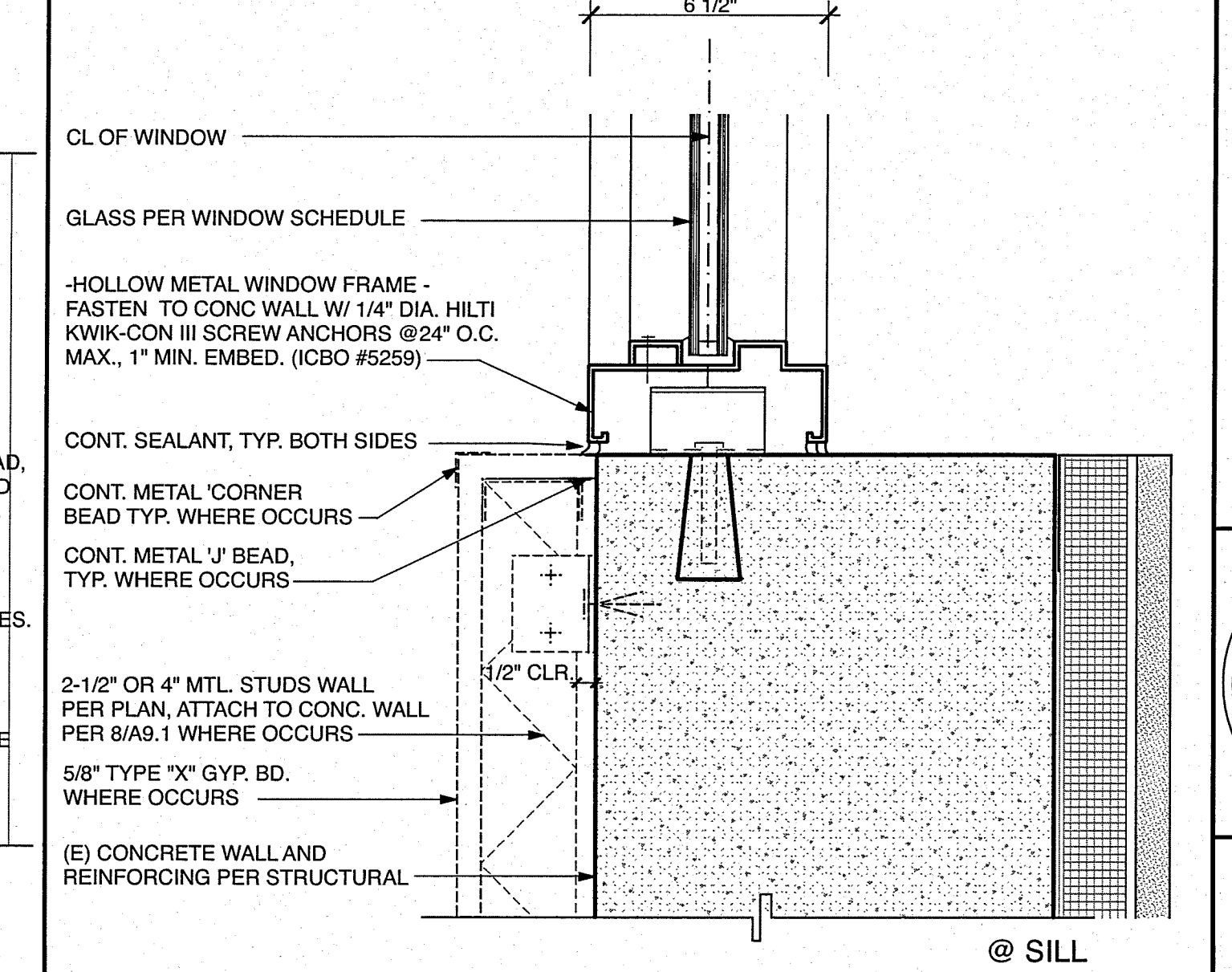
**TYP. ALUMINUM FRAME WINDOW @ NORTH ELEVATION**  
3" = 1'-0" **(5)**



**TYP. HOLLOW METAL FRAME WINDOW @ EXISTING WALL**  
3" = 1'-0" **(1)**



**TYP. HOLLOW METAL FRAME WINDOW @ EXISTING WALL**  
3" = 1'-0" **(1)**



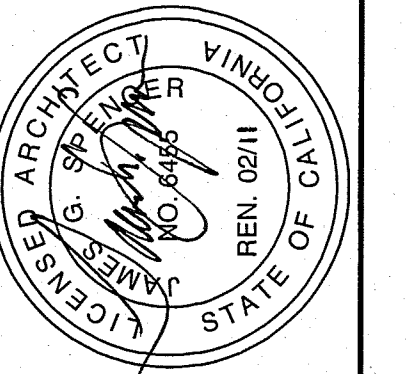
**TYP. HOLLOW METAL FRAME WINDOW @ EXISTING WALL**  
3" = 1'-0" **(2)**

NO.	DATE	REVISIONS

NO.	DATE	REVISIONS

**SPENCER / HOSKINS associates**  
Architecture & Planning  
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James G. Spencer, AIA, Architect C-6455  
Stephen R. Hoskins, AIA, Architect C-7723

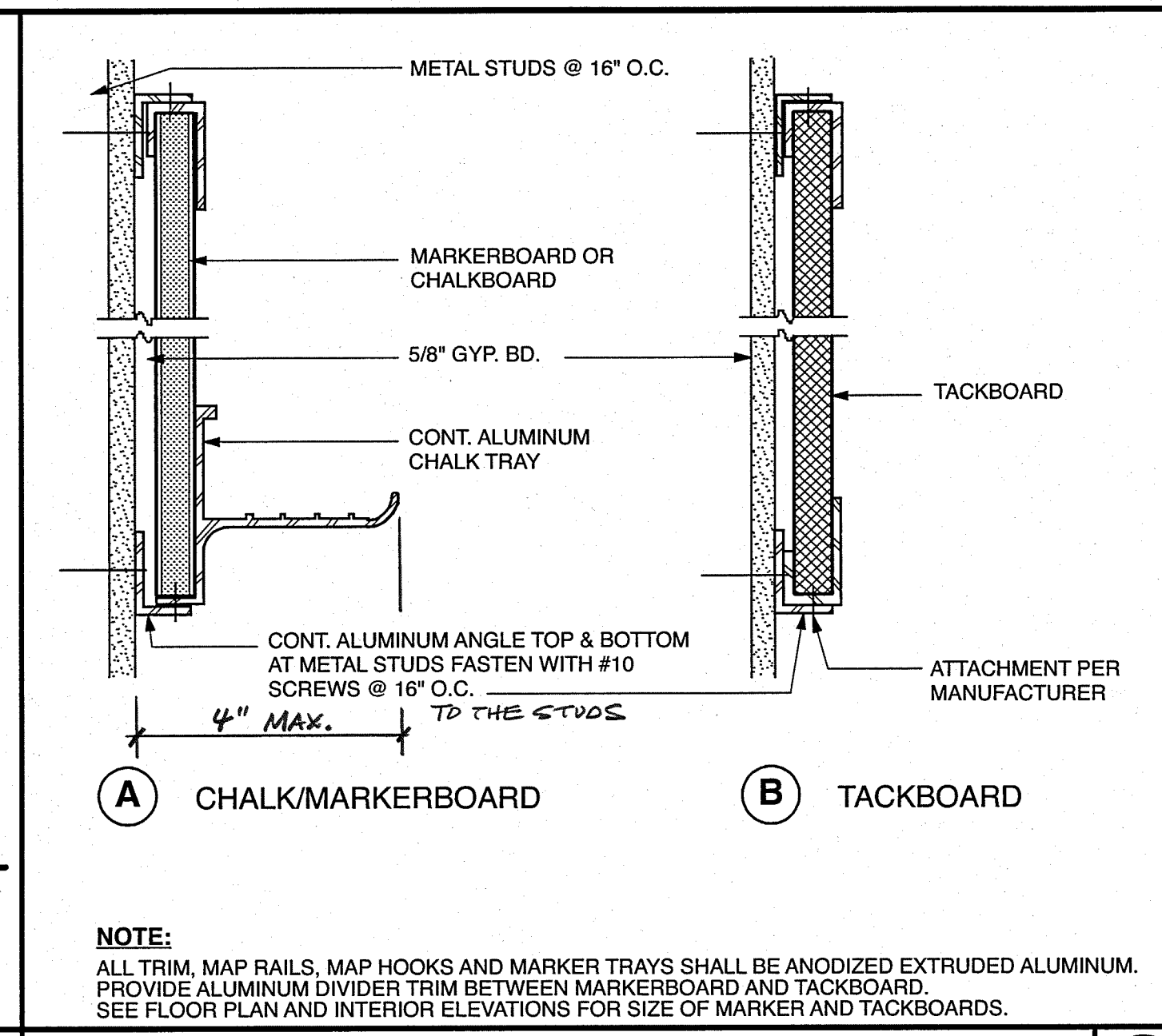
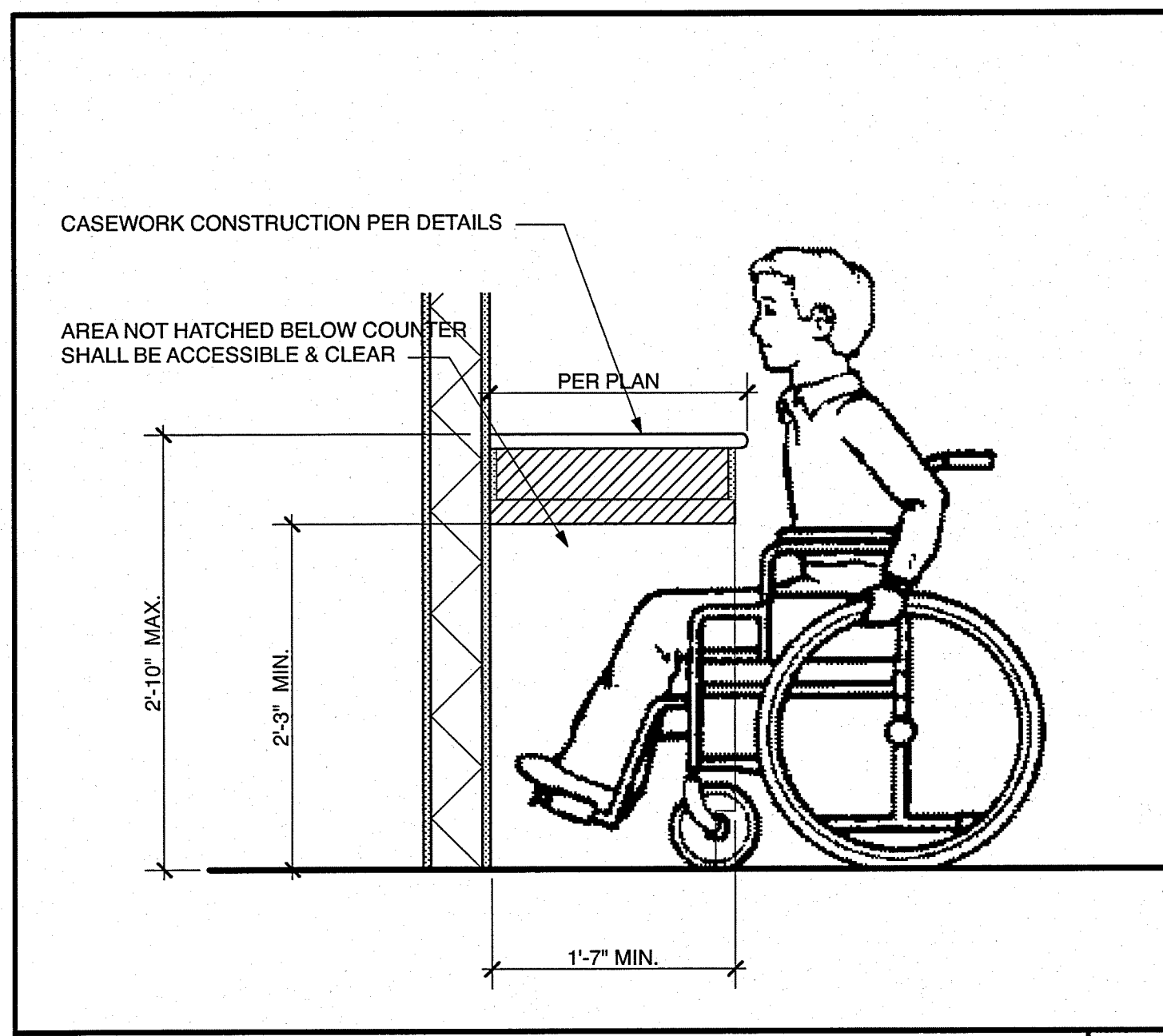
**CLAYPOOL BUILDING RECONSTRUCTION**  
PALO VERDE COLLEGE, NEEDLES CENTER  
PALO VERDE COMMUNITY COLLEGE DISTRICT  
725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363



**DOOR / WINDOW DETAILS**  
DATE: 07-06-07  
JOB NO.: 2007-SH95-00  
DRAWN: KK, YCL  
CHECKED: JVT

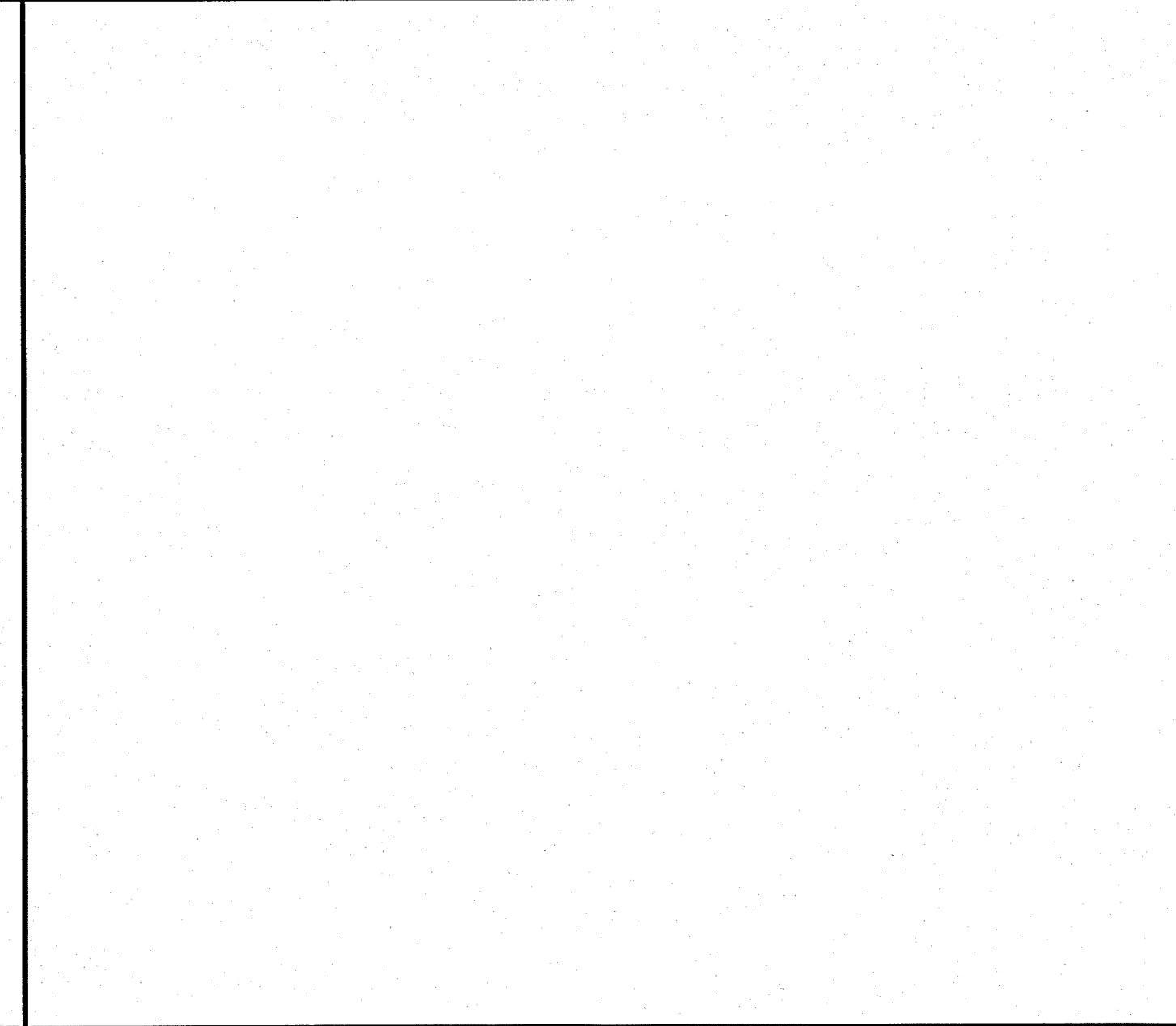
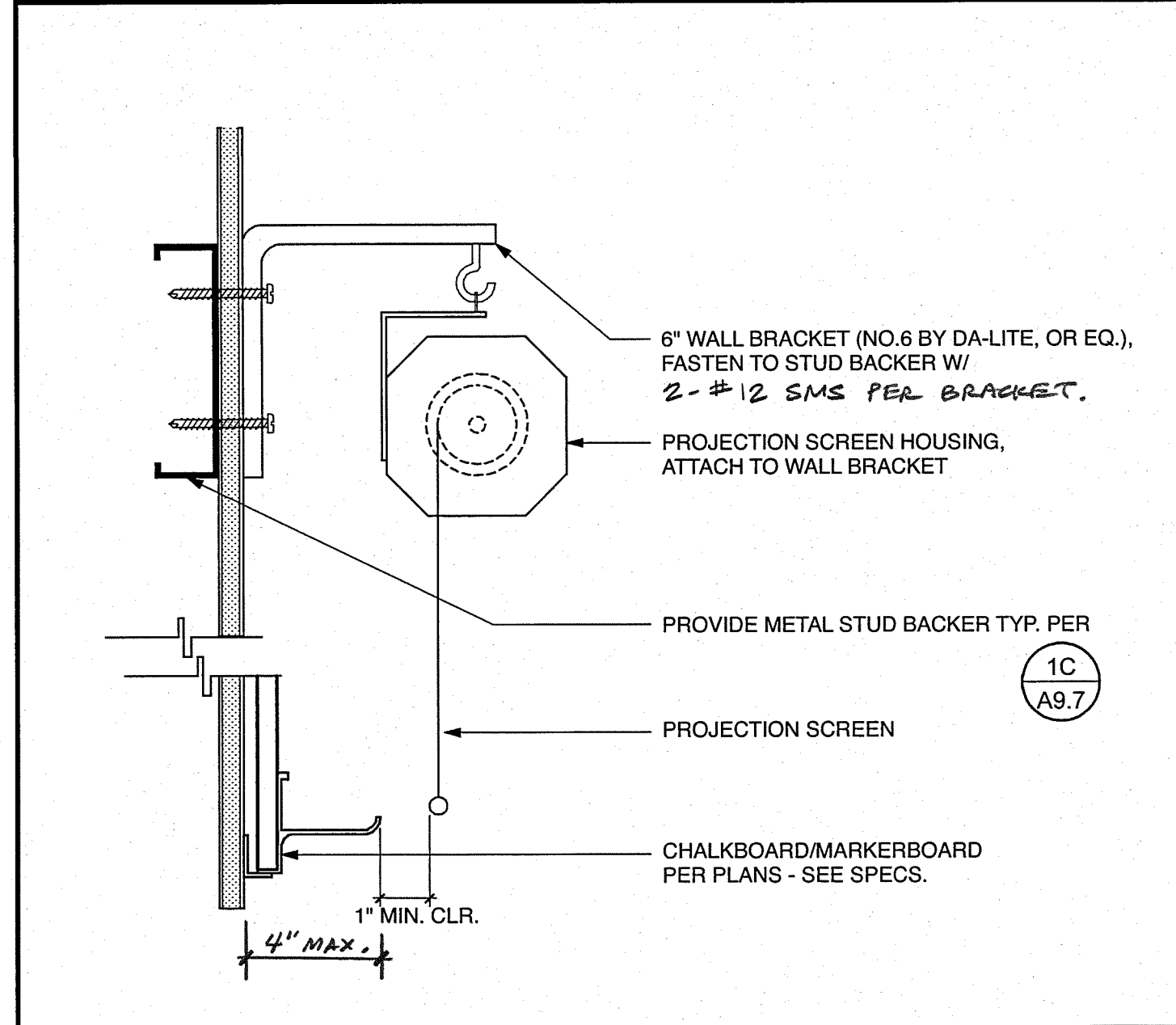
110562  
APR 07 2011

**A9.6**  
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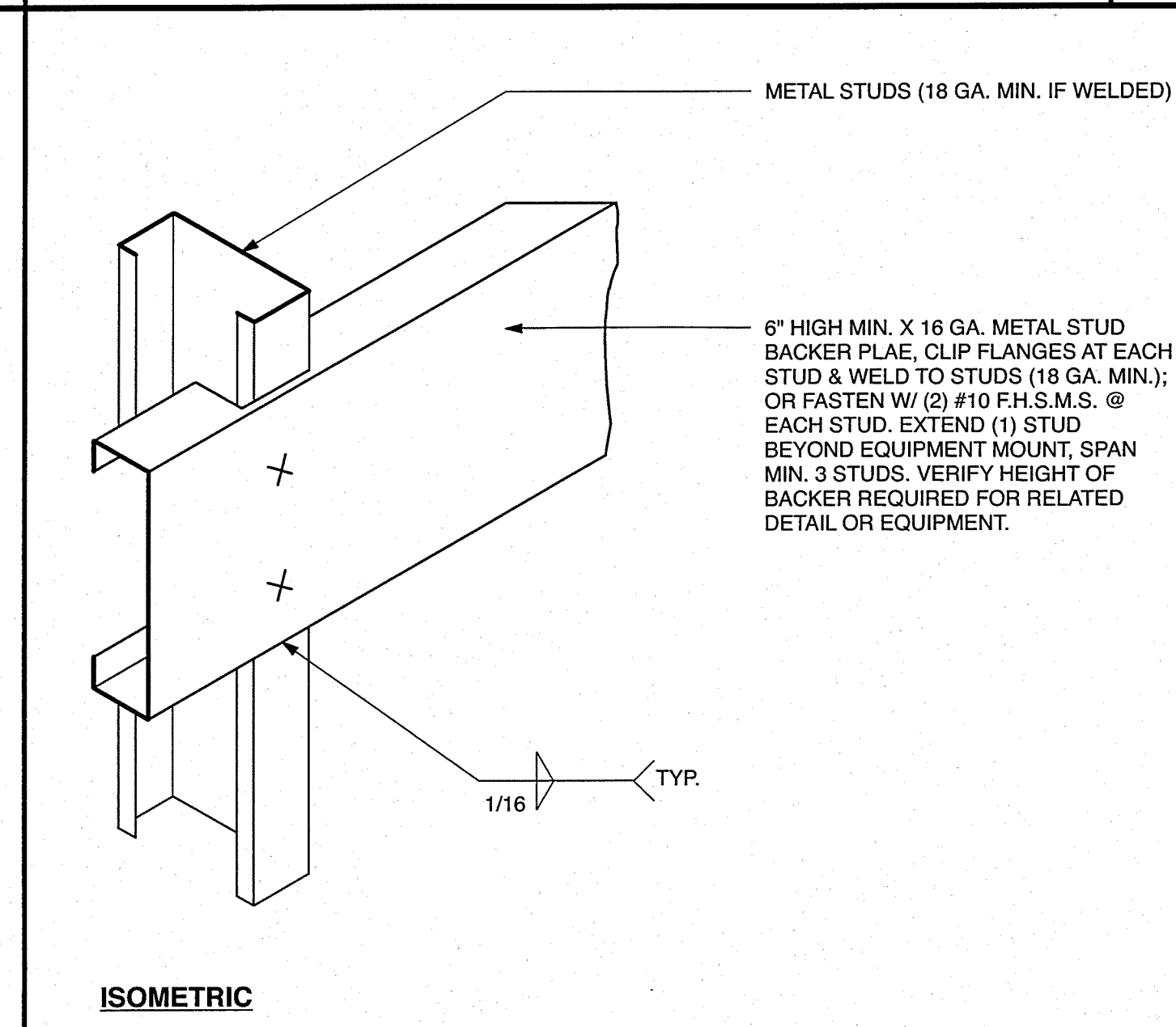
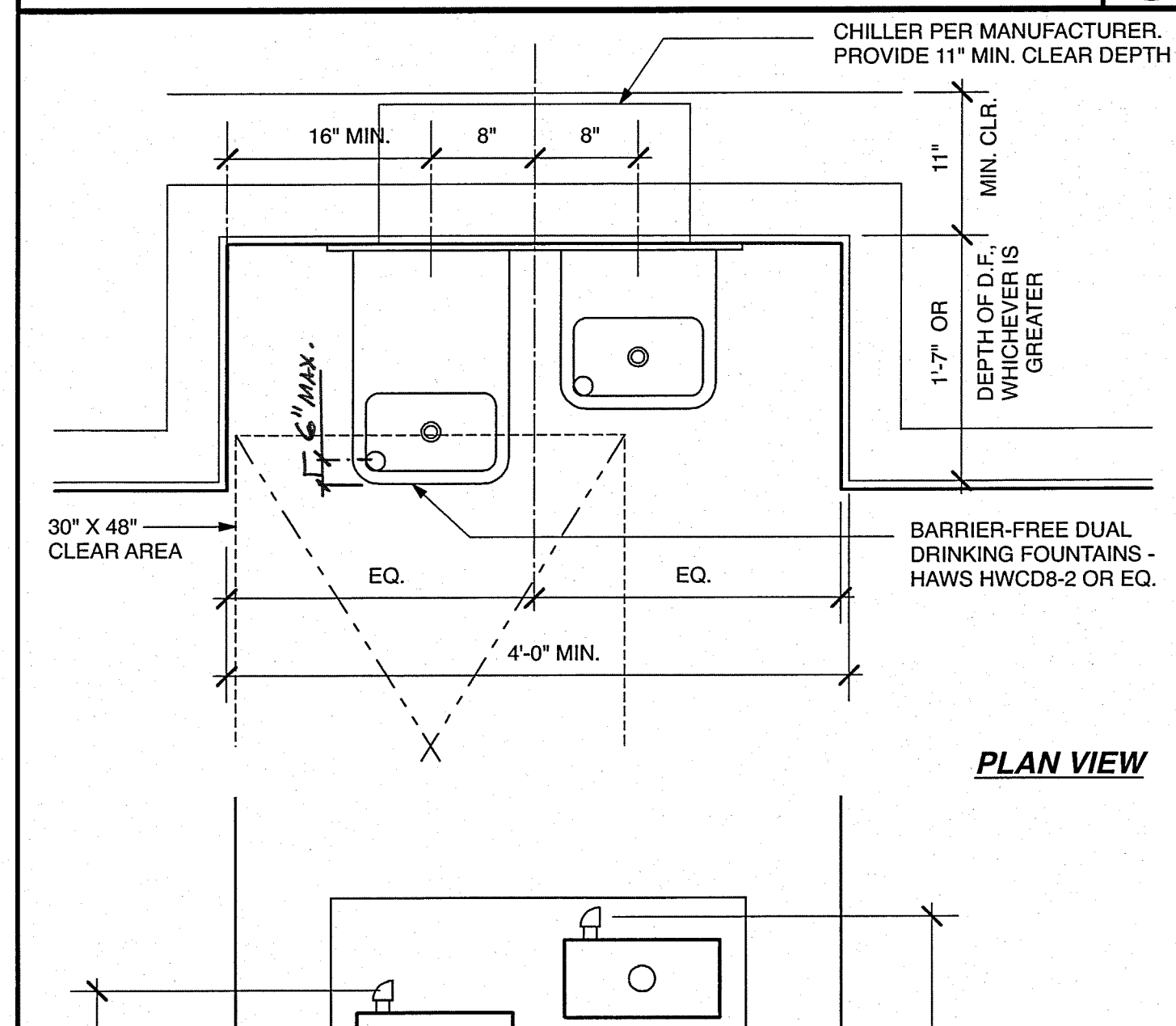


NOTE: ALL TRIM, MAP RAILS, MAP HOOKS AND MARKER TRAYS SHALL BE ANODIZED EXTRUDED ALUMINUM. PROVIDE ALUMINUM DIVIDER TRIM BETWEEN MARKERBOARD AND TACKBOARD. SEE FLOOR PLAN AND INTERIOR ELEVATIONS FOR SIZE OF MARKER AND TACKBOARDS.

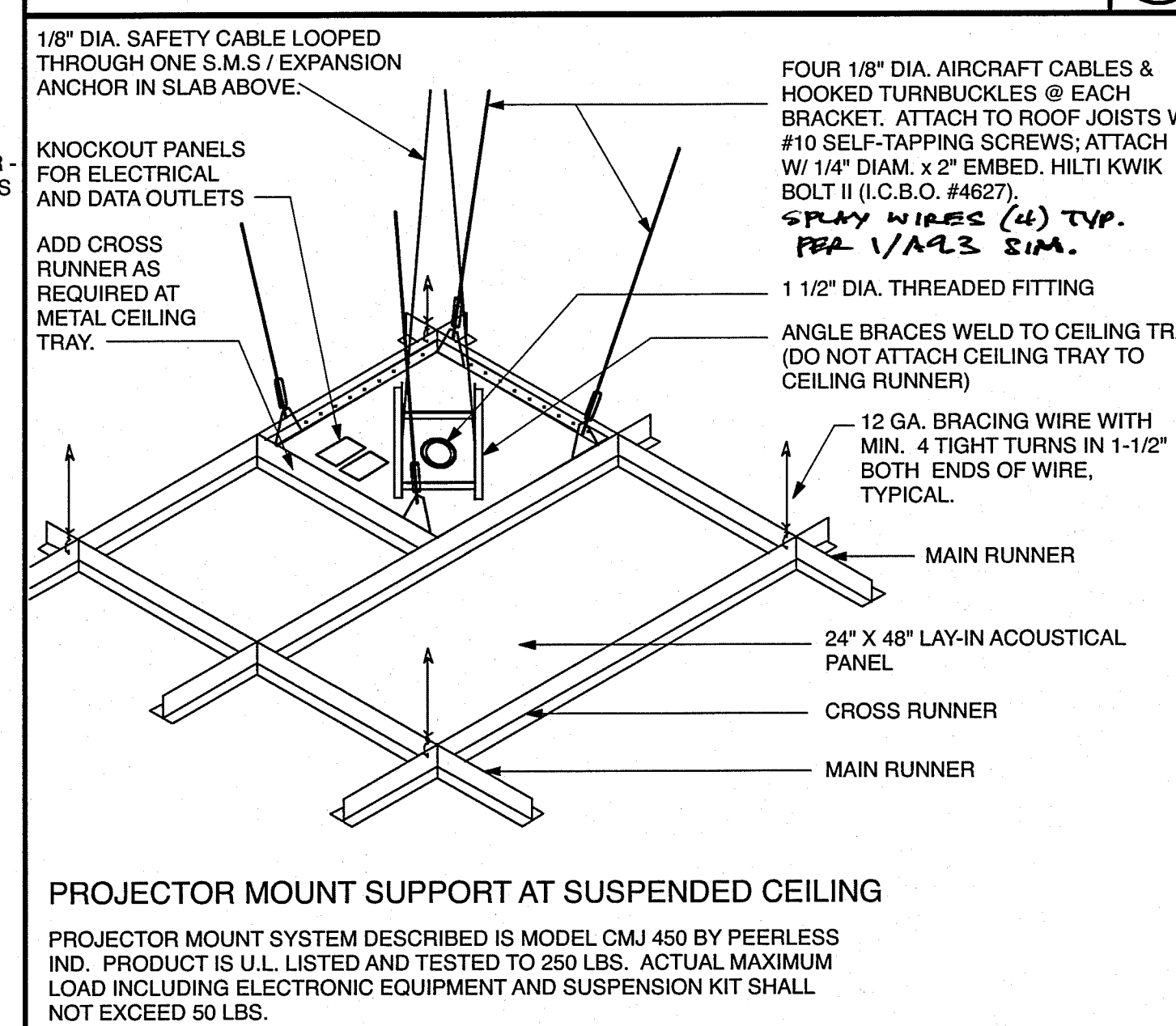
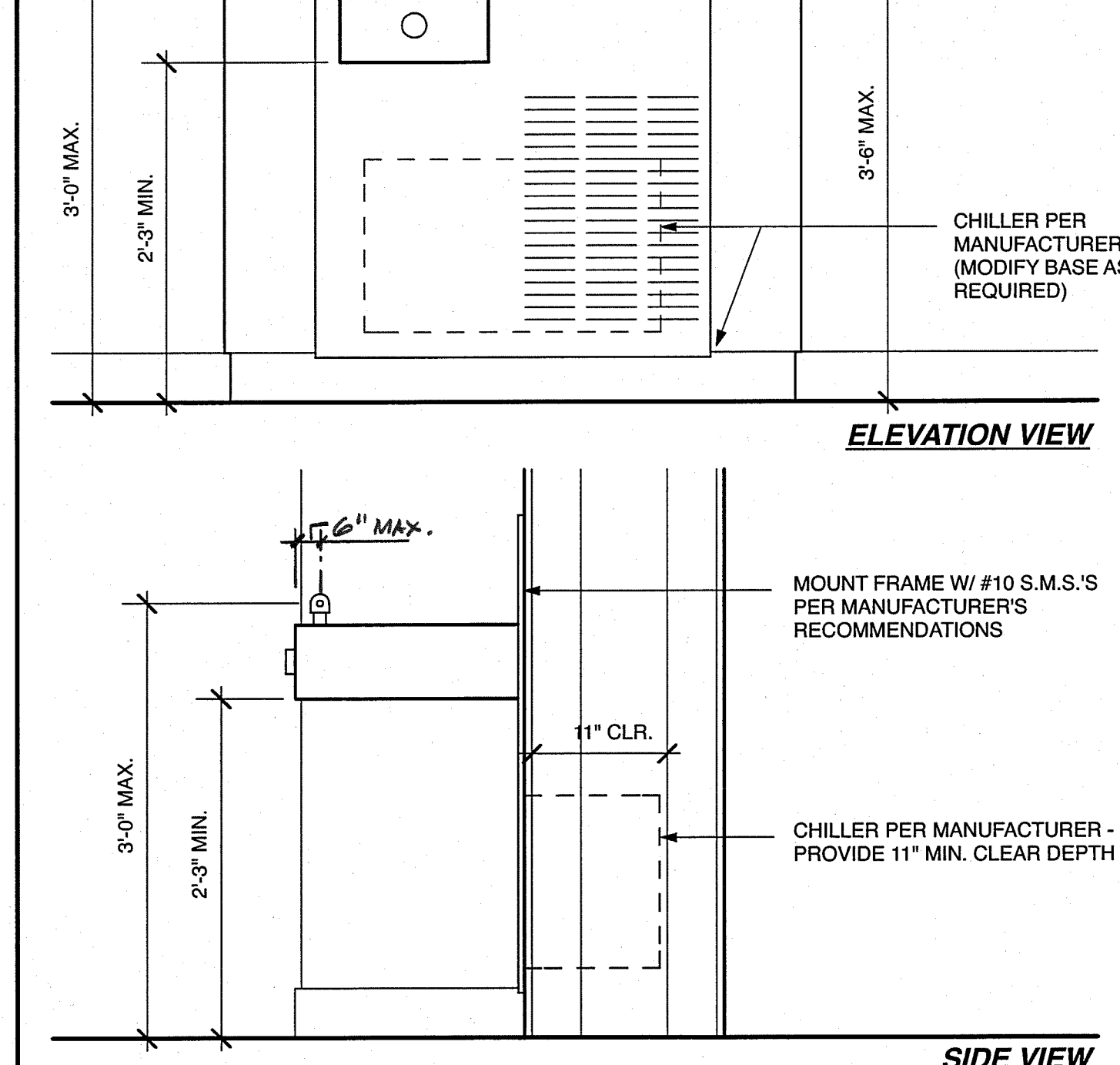
TYP. CHALK/MARKER/TACKBOARDS  
14 HALF SIZE



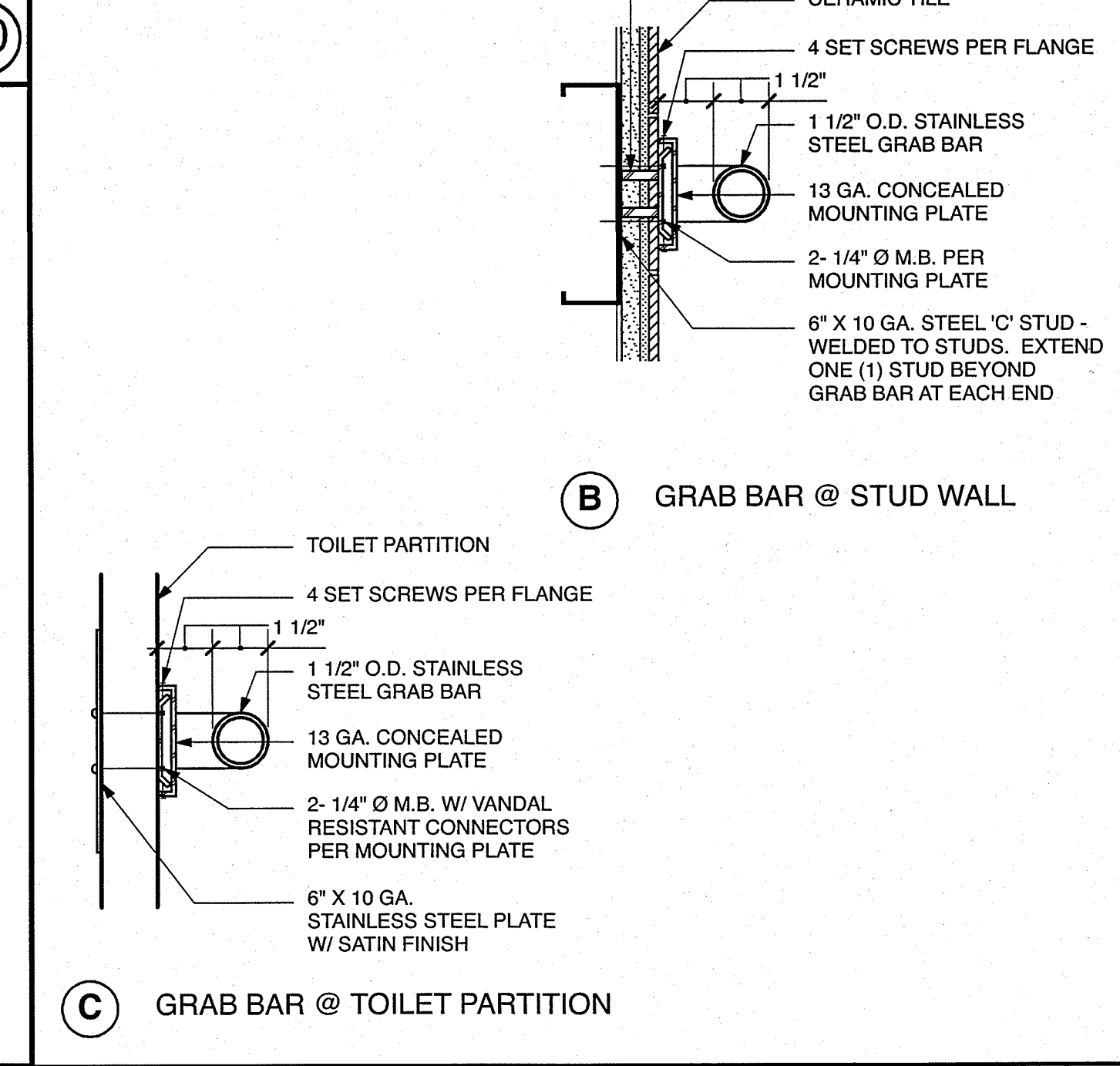
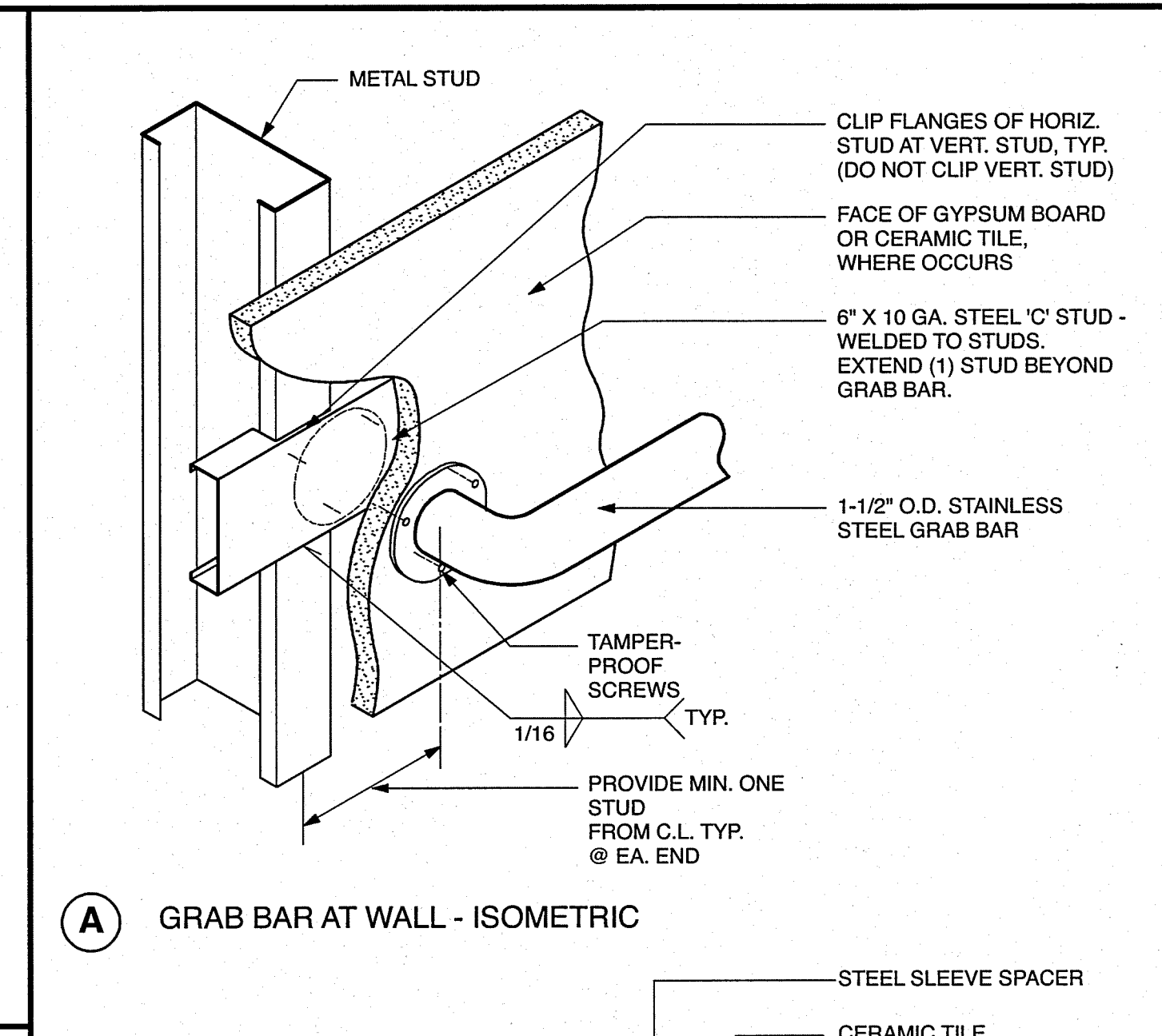
TYP. GRAB BAR ANCHORAGE  
15 3' = 1'-0"



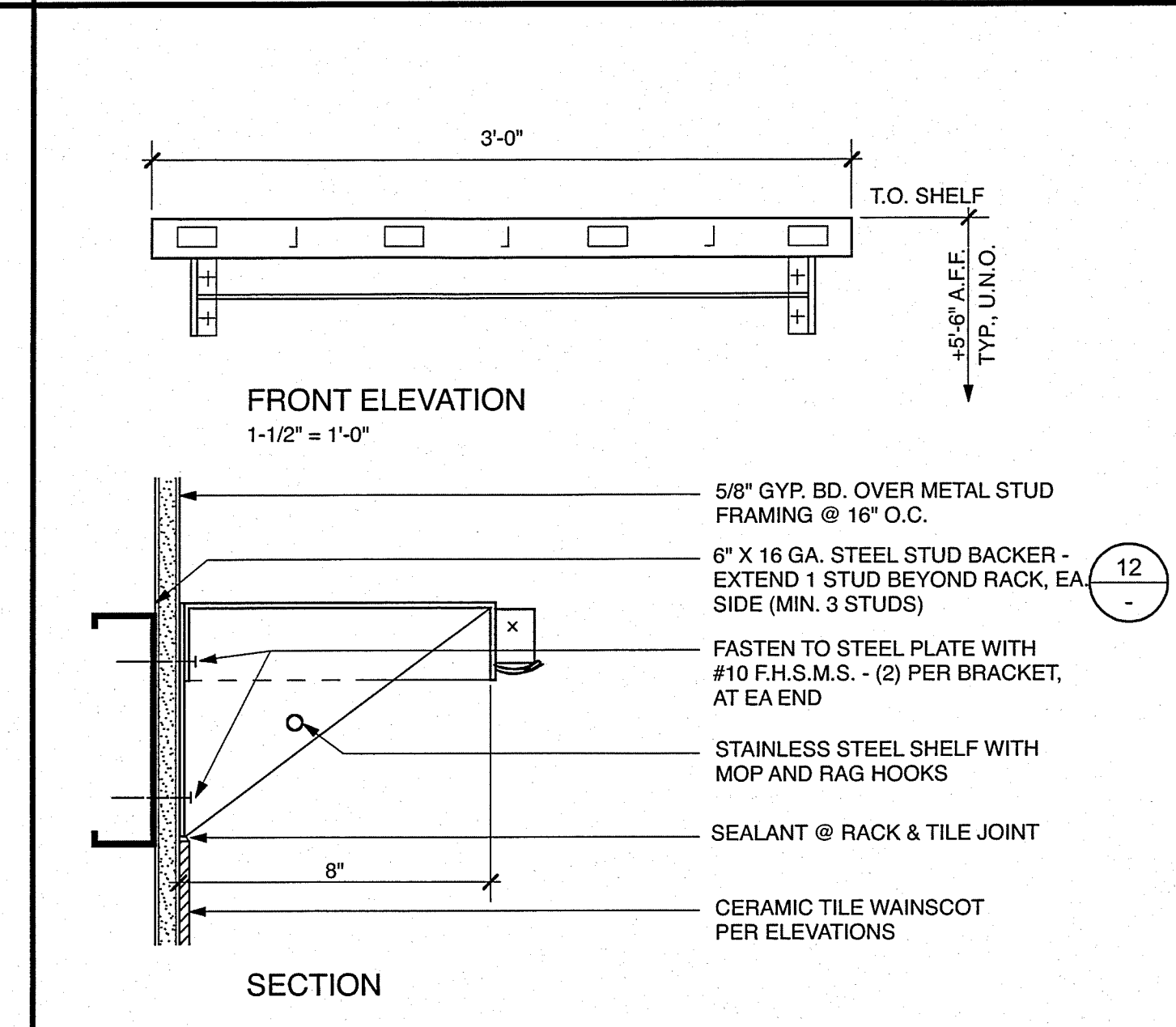
TYP. MOP RACK  
15 3' = 1'-0"



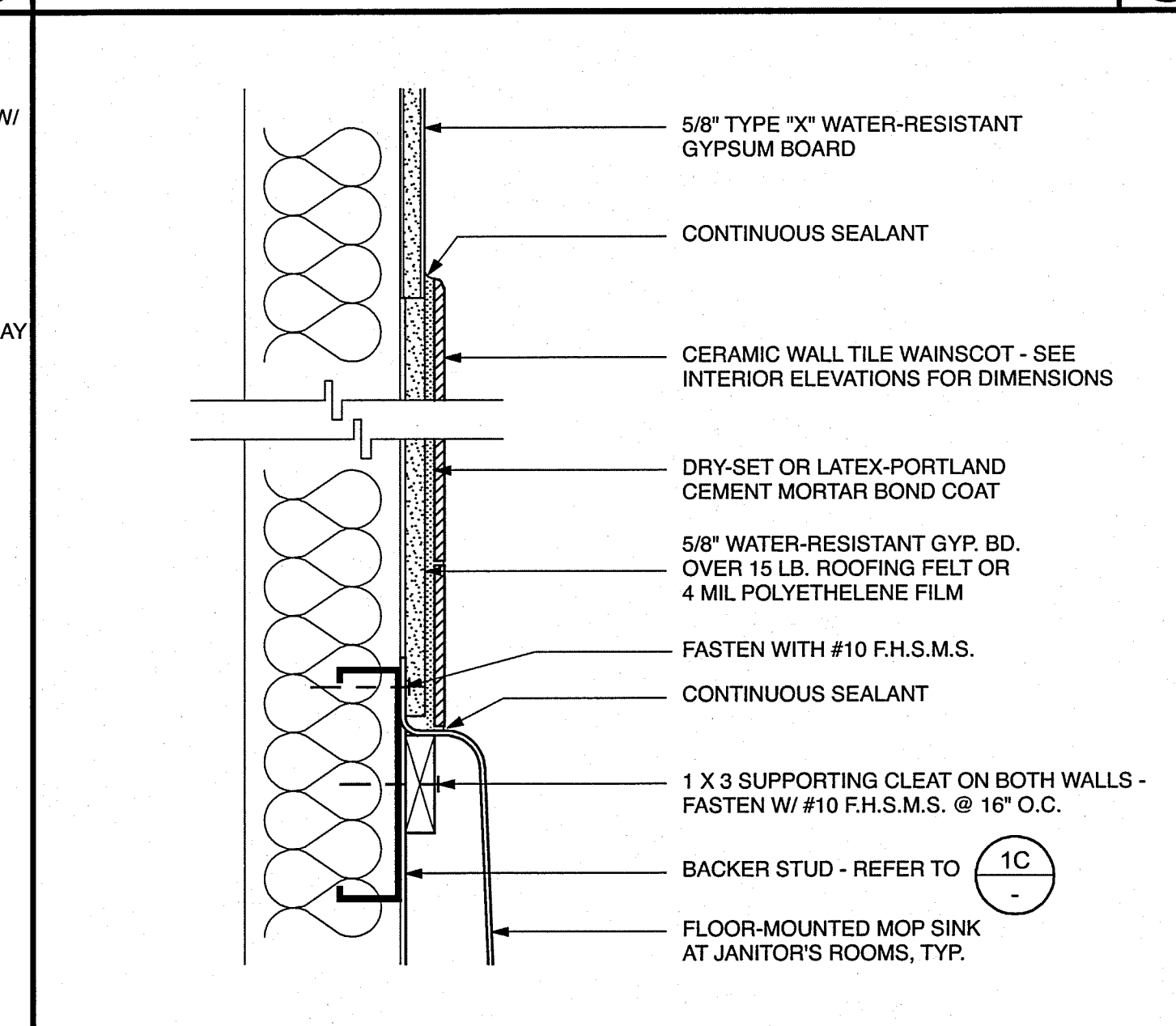
TYP. PROJECTOR MOUNT AT SUSPENDED CEILING  
15 1-1/2" = 1'-0"



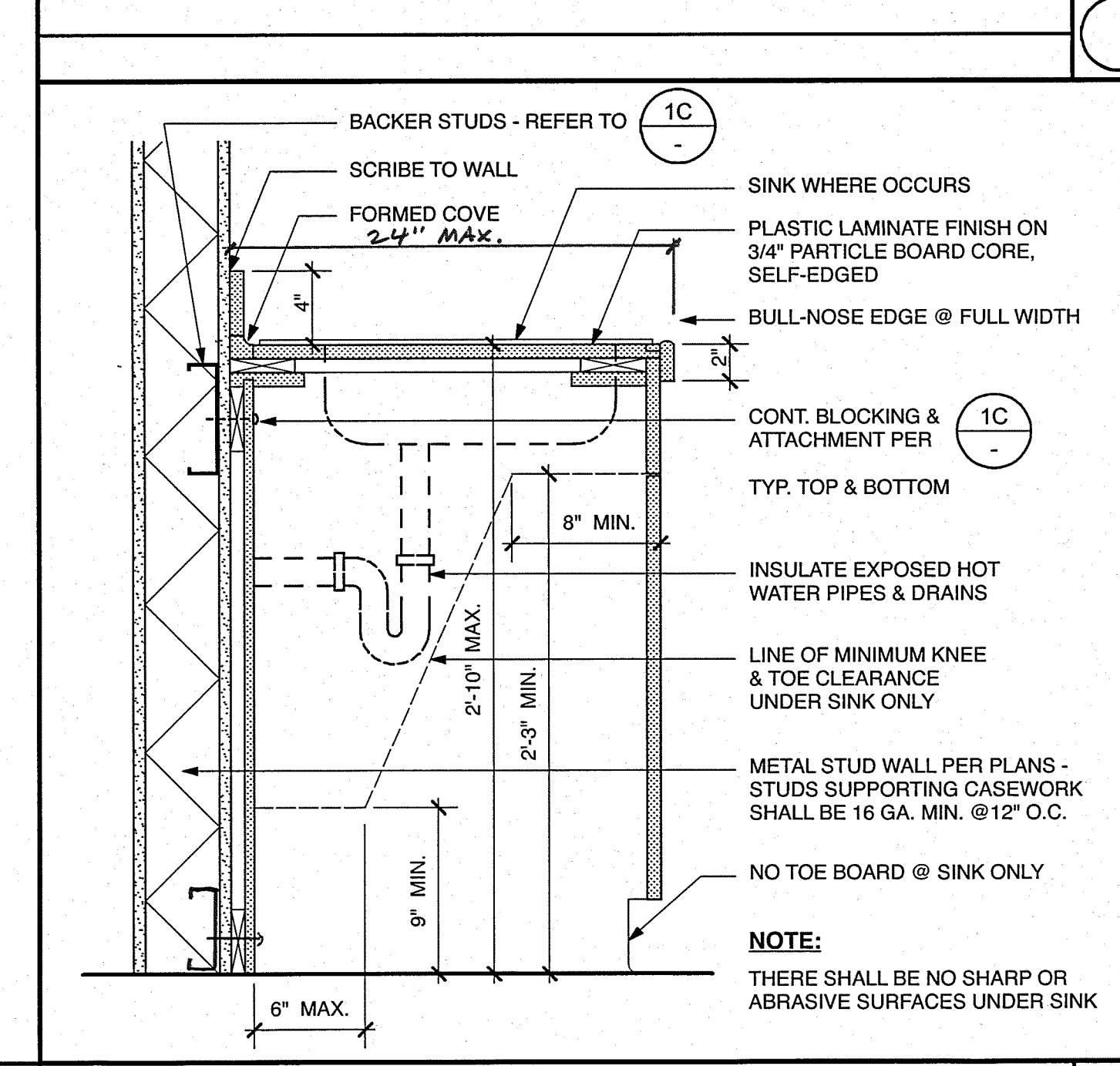
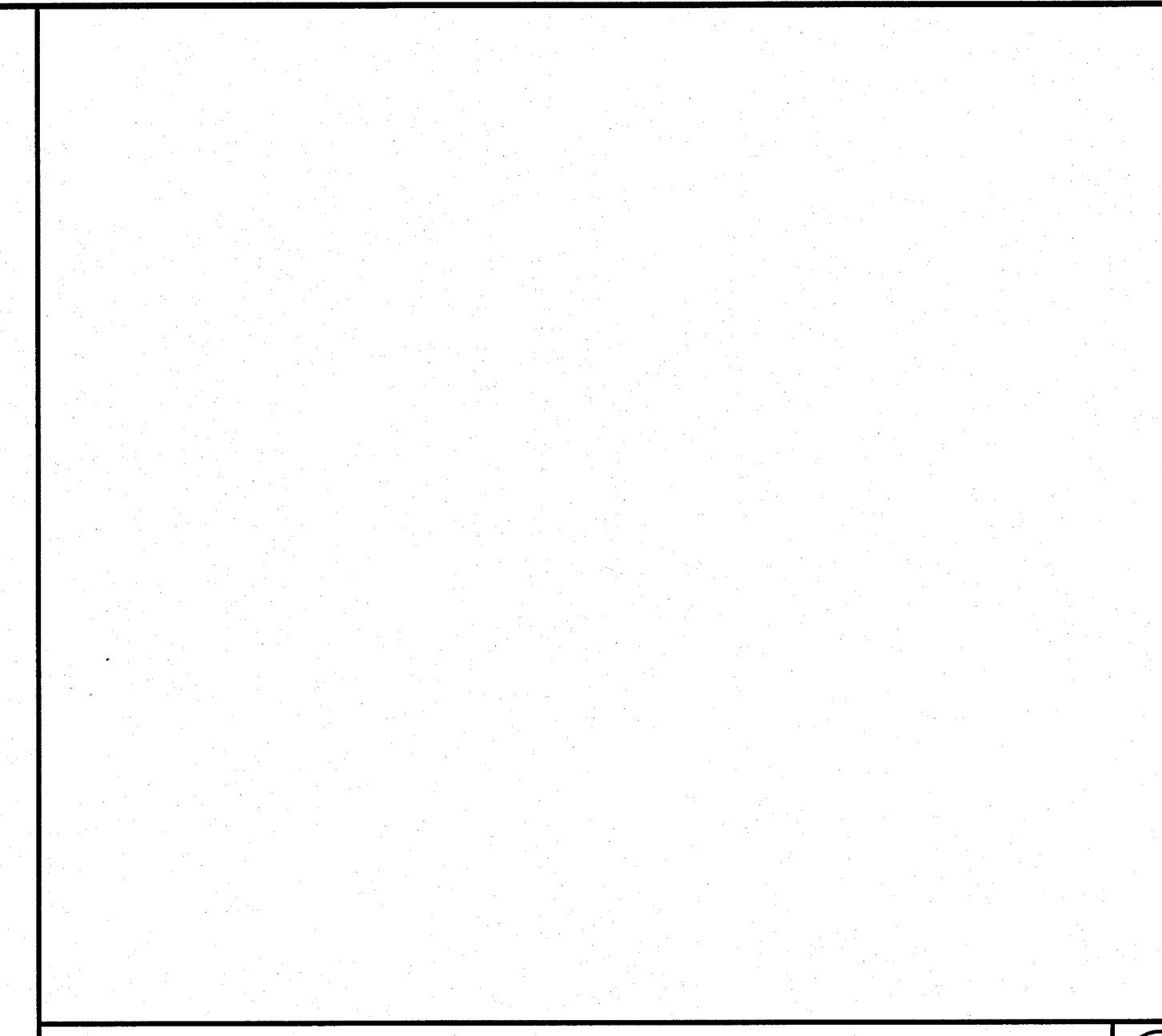
TYP. GRAB BAR @ TOILET PARTITION  
16 3' = 1'-0"



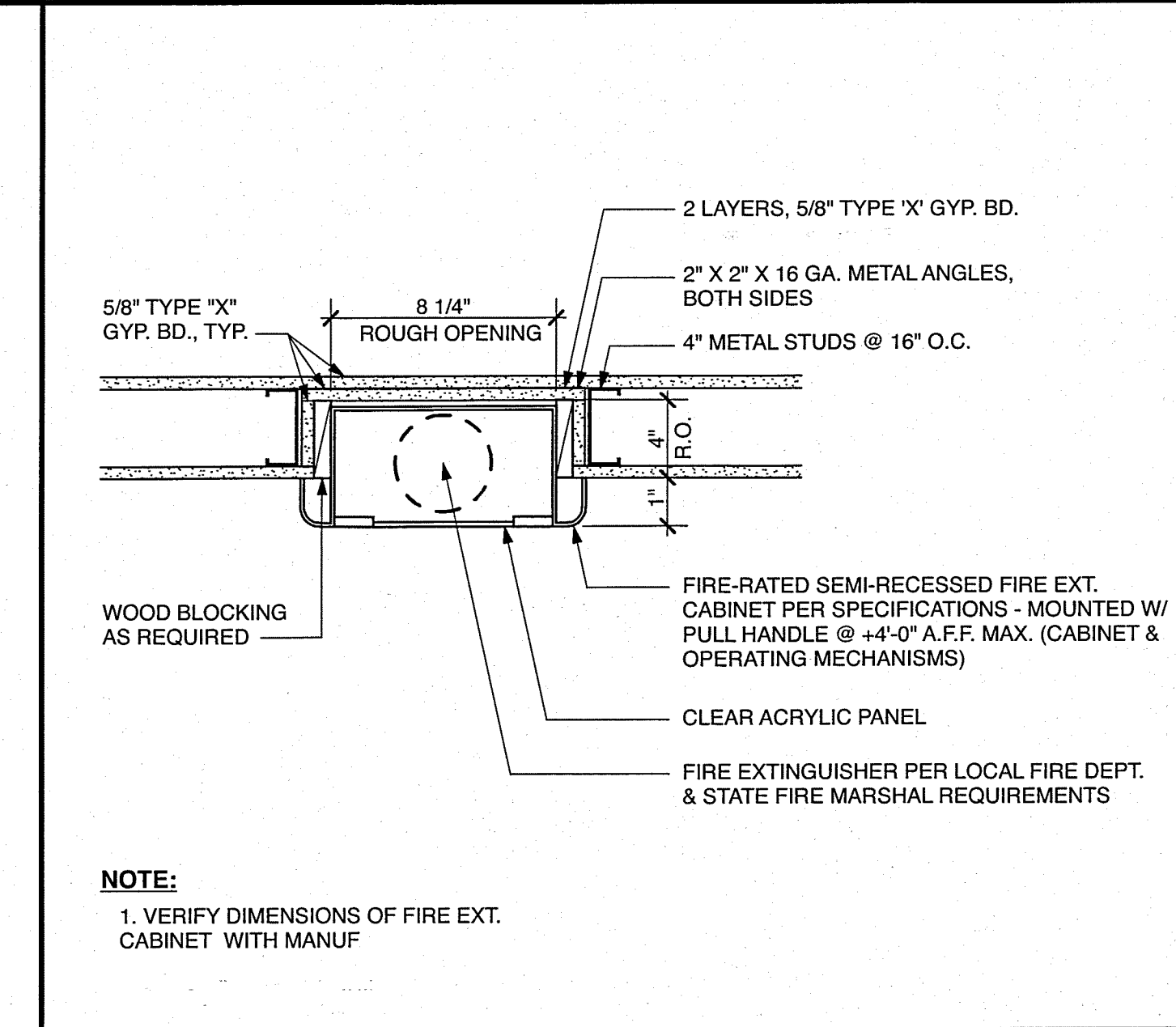
TYP. BASE CABINET AT SINK  
16 1-1/2" = 1'-0"



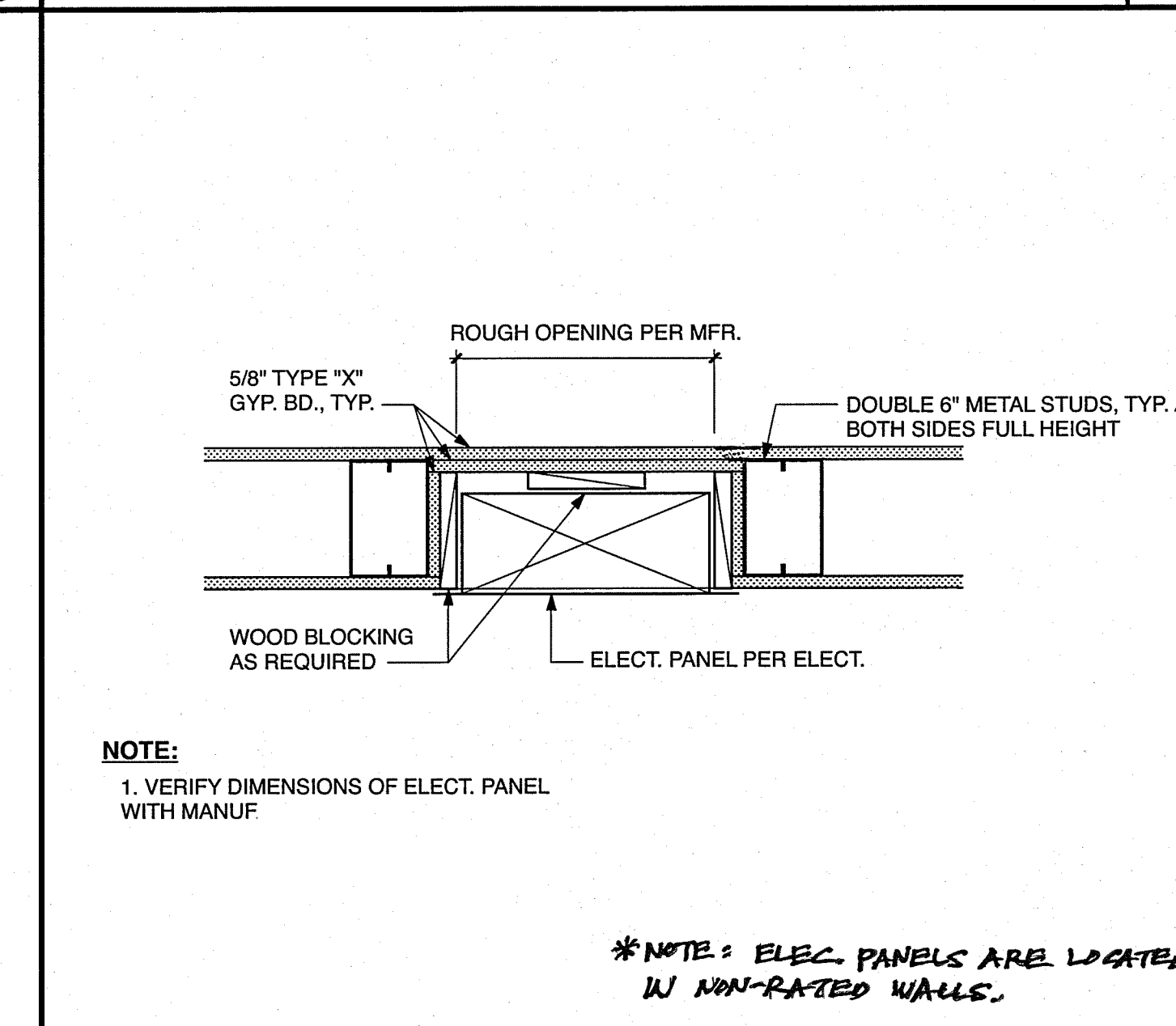
TYP. FIRE EXTINGUISHER CABINET @ STUD WALL  
16 1-1/2" = 1'-0"



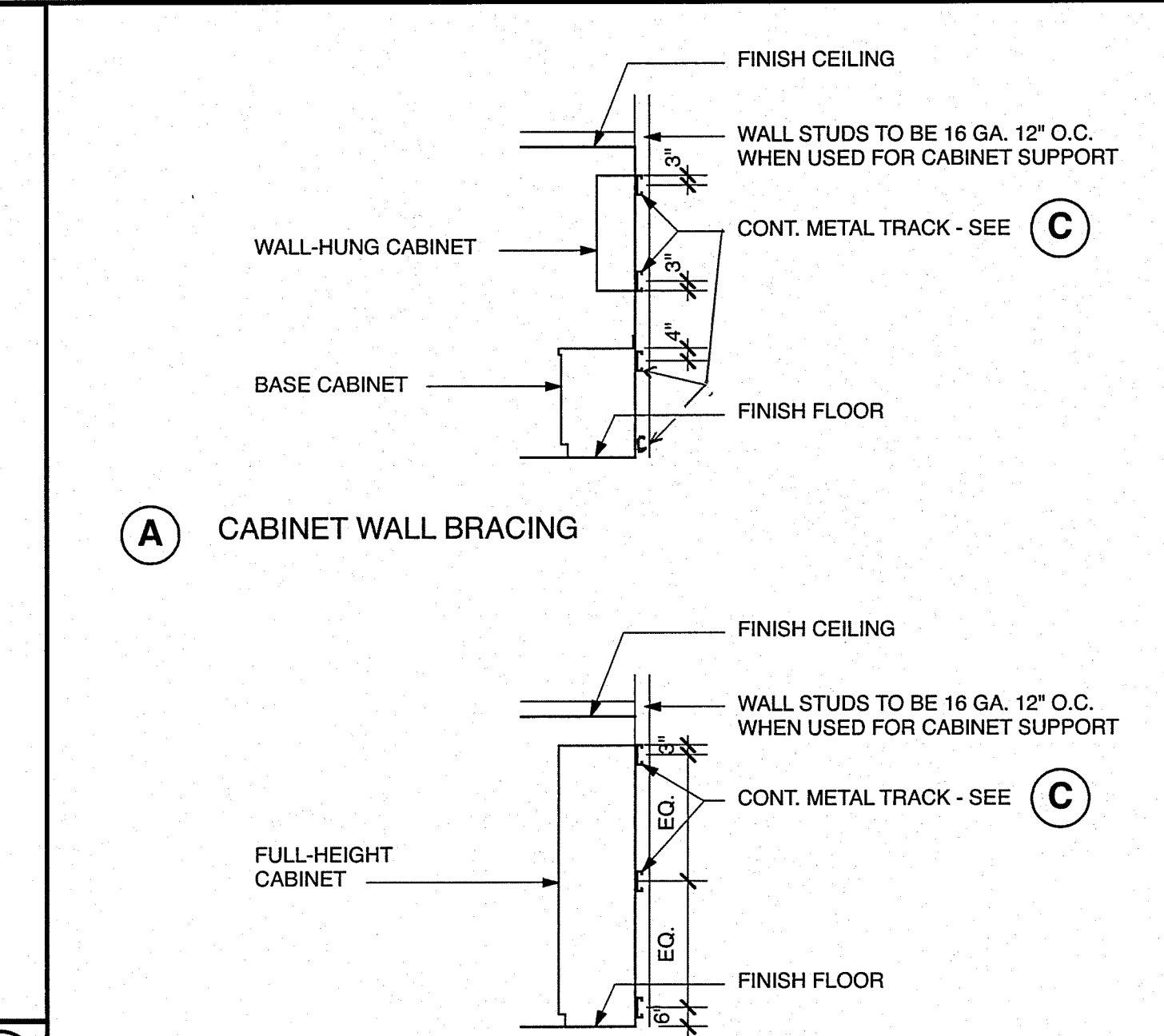
TYP. CABINET ANCHORAGE  
17 NO SCALE



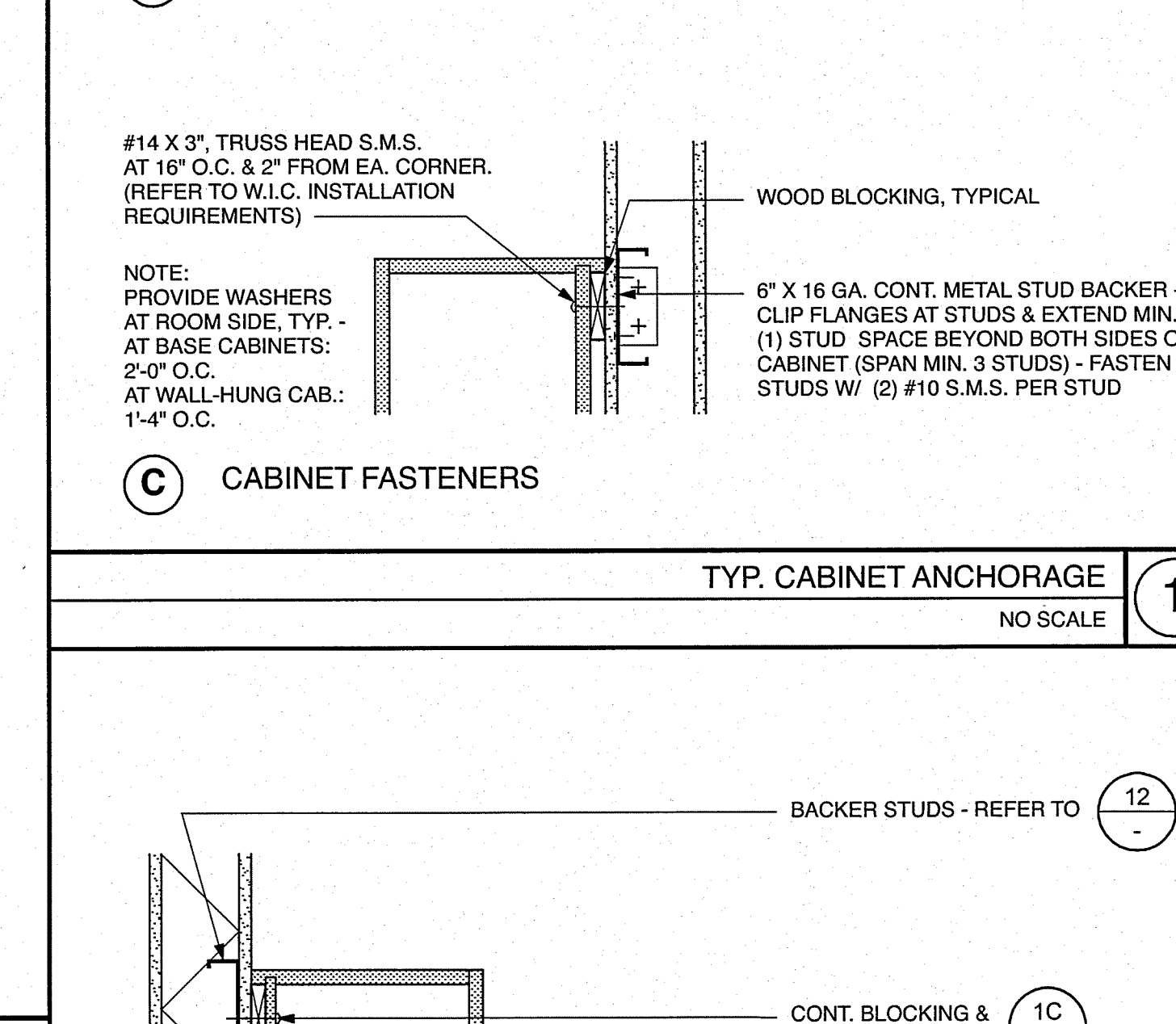
TYP. UPPER CABINET TOP  
17 12



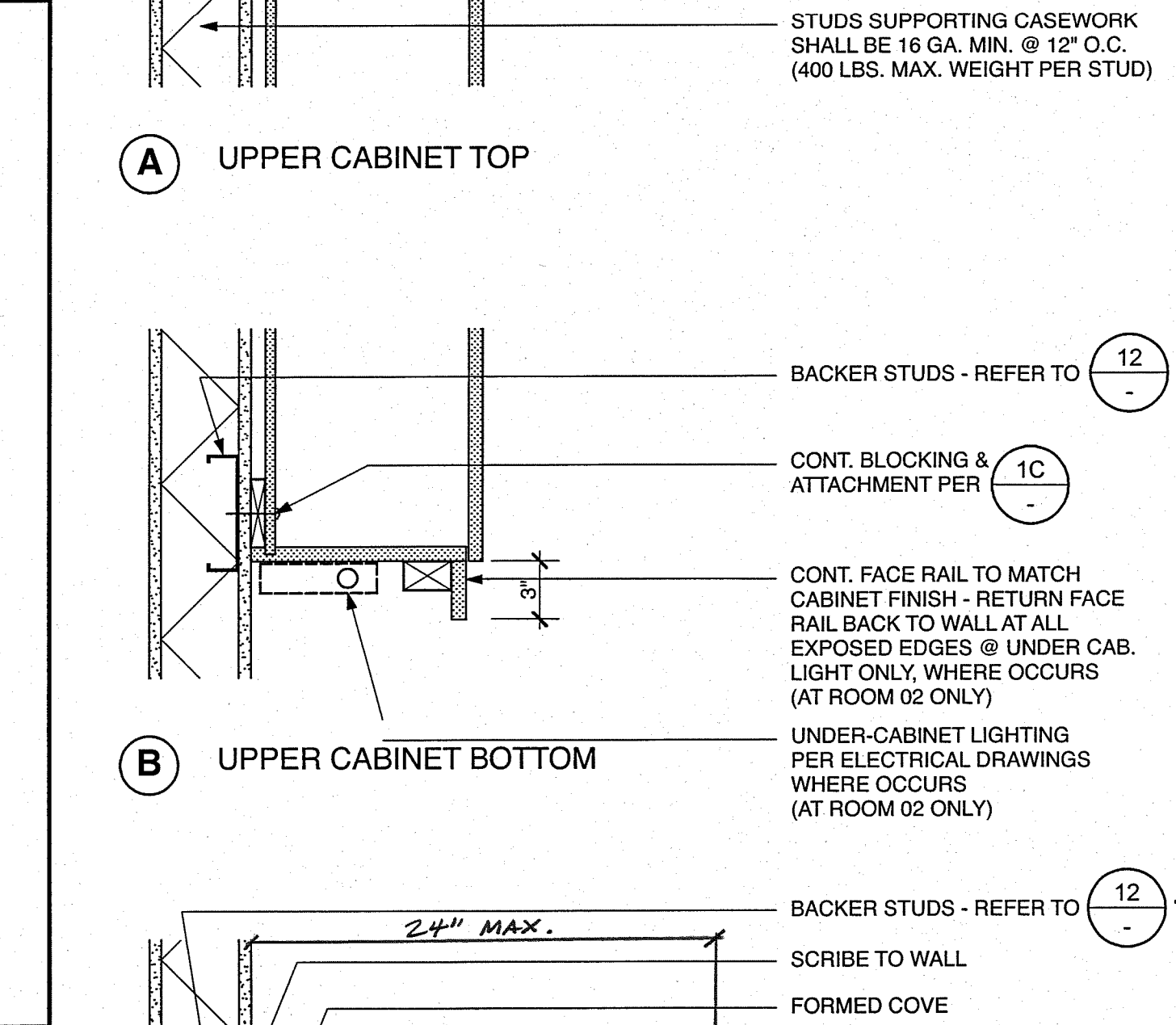
TYP. UPPER CABINET BOTTOM  
17 12



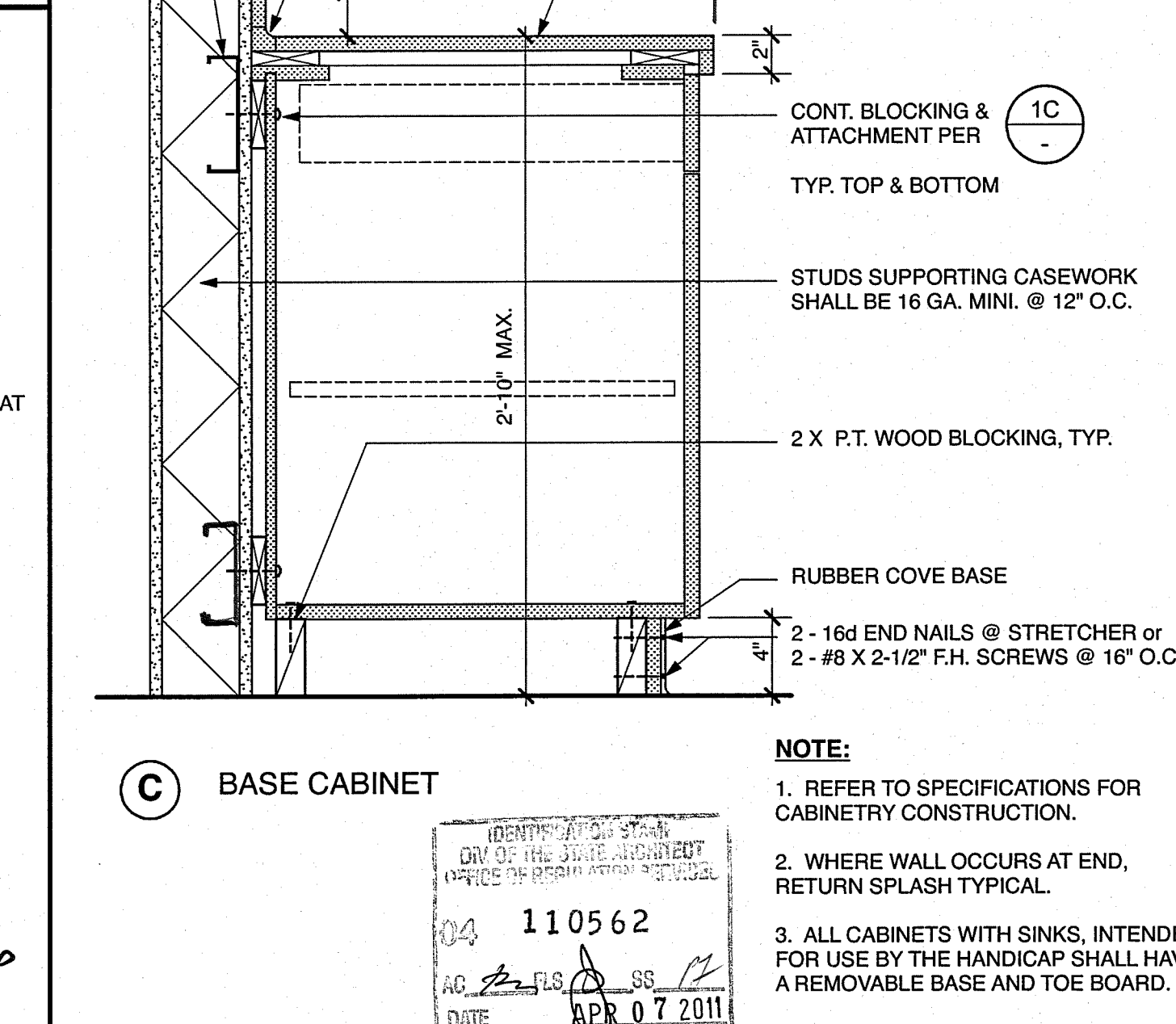
TYP. CABINET FASTENERS  
17 1-4" O.C.



TYP. UPPER CABINET TOP  
17 12



TYP. UPPER CABINET BOTTOM  
17 12



TYP. BASE CABINET  
17 12

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CLAYPOOL BUILDING RECONSTRUCTION  
PALO VERDE COLLEGE, NEEDLES CENTER  
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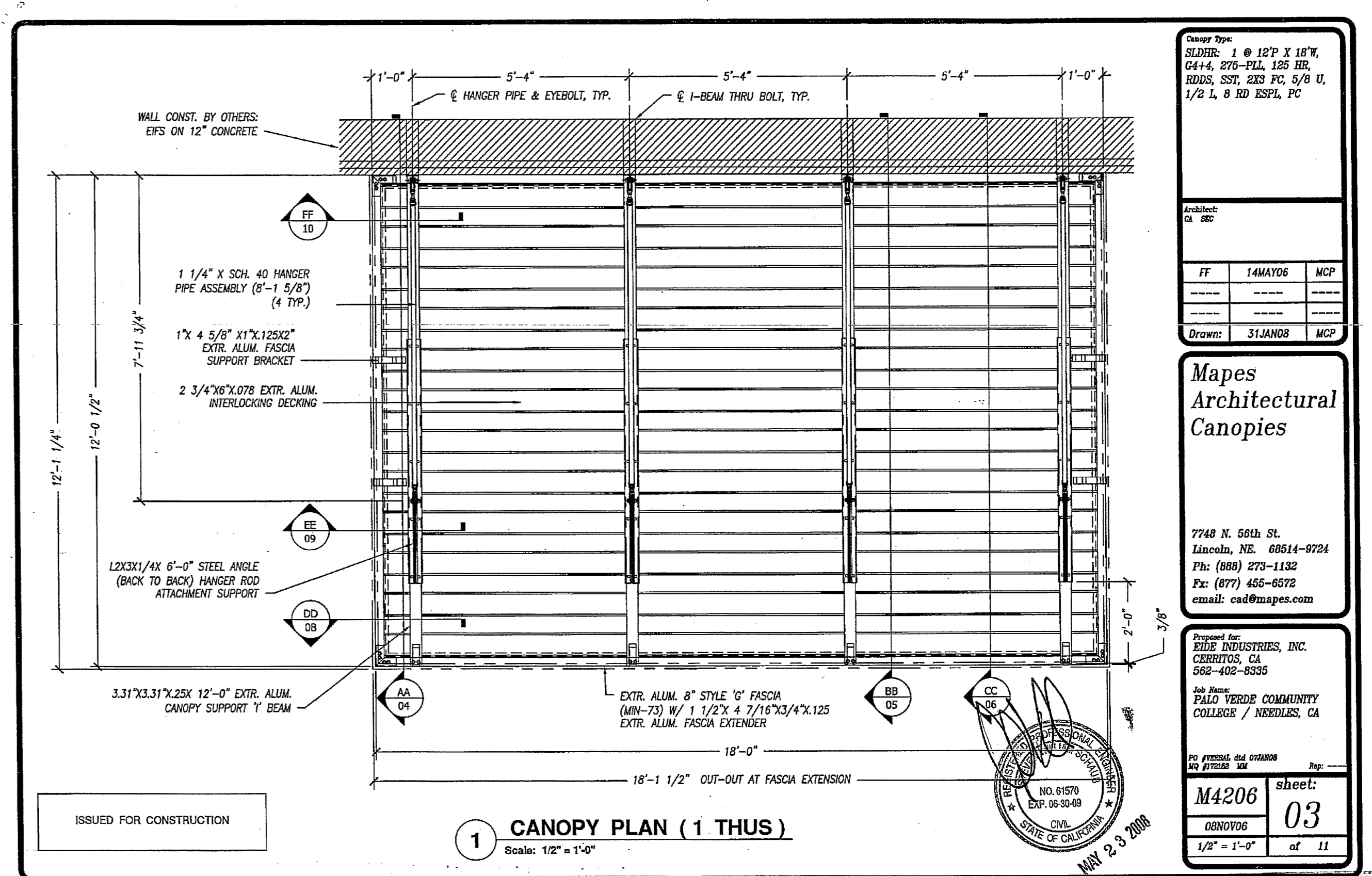
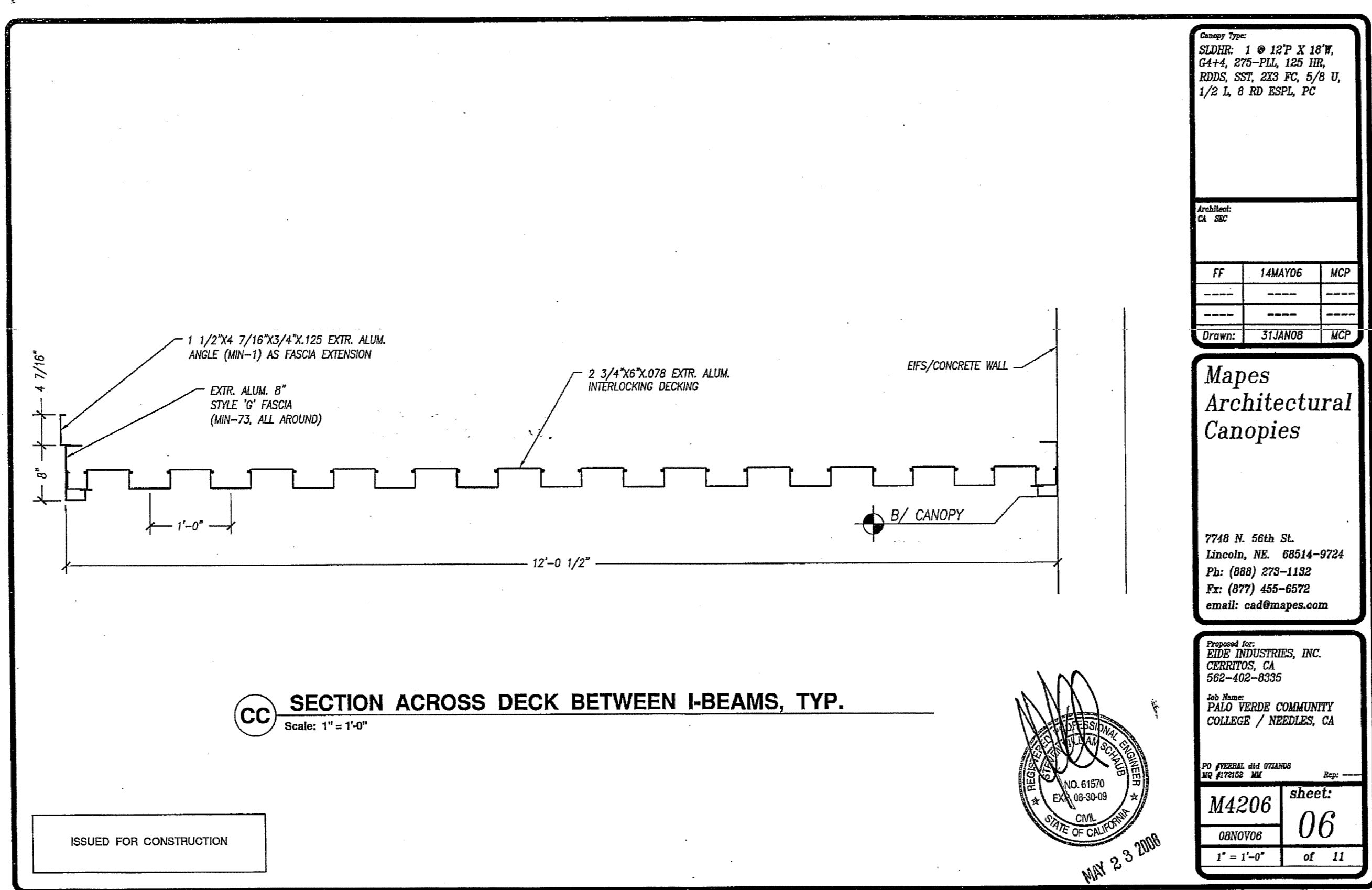
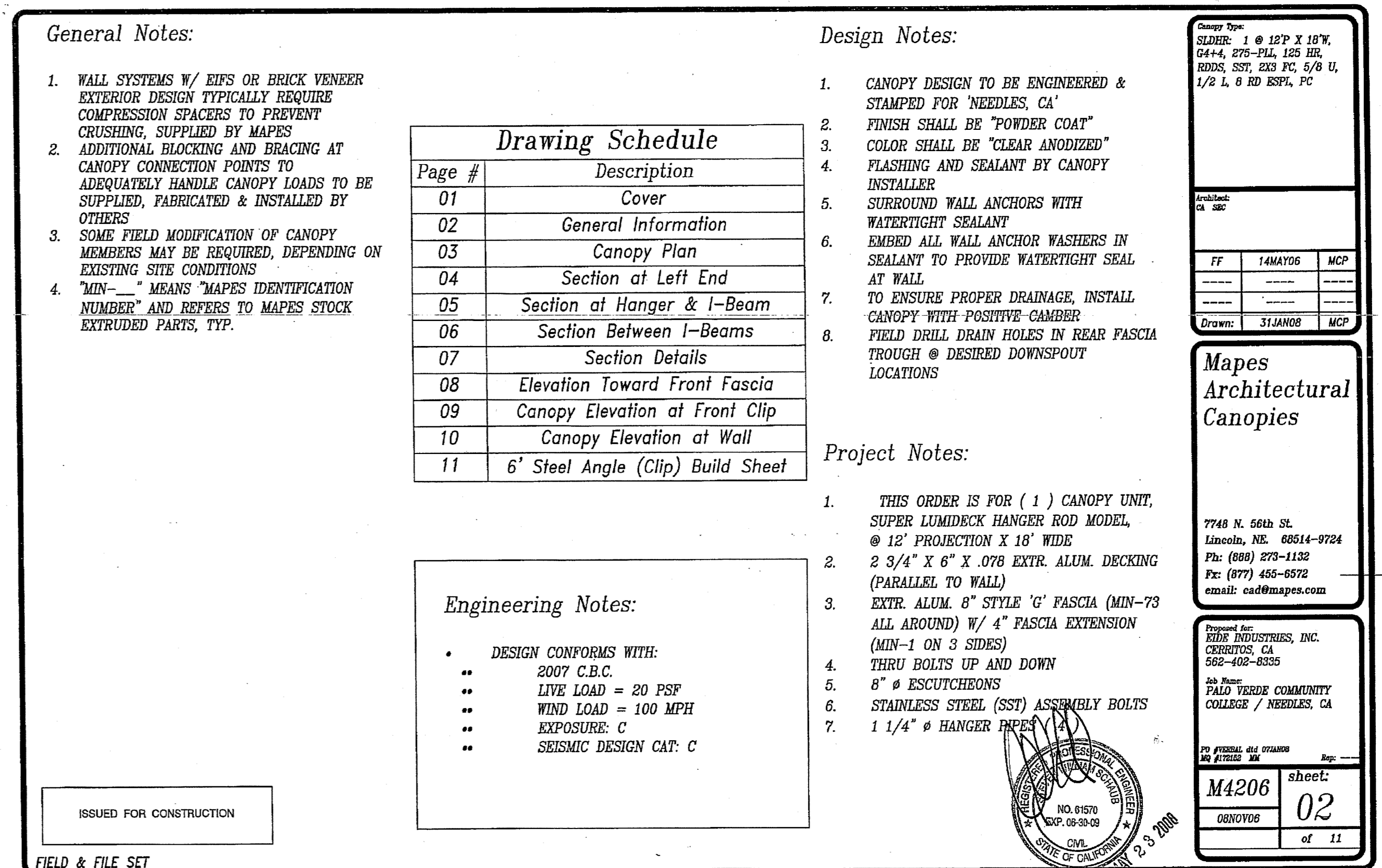
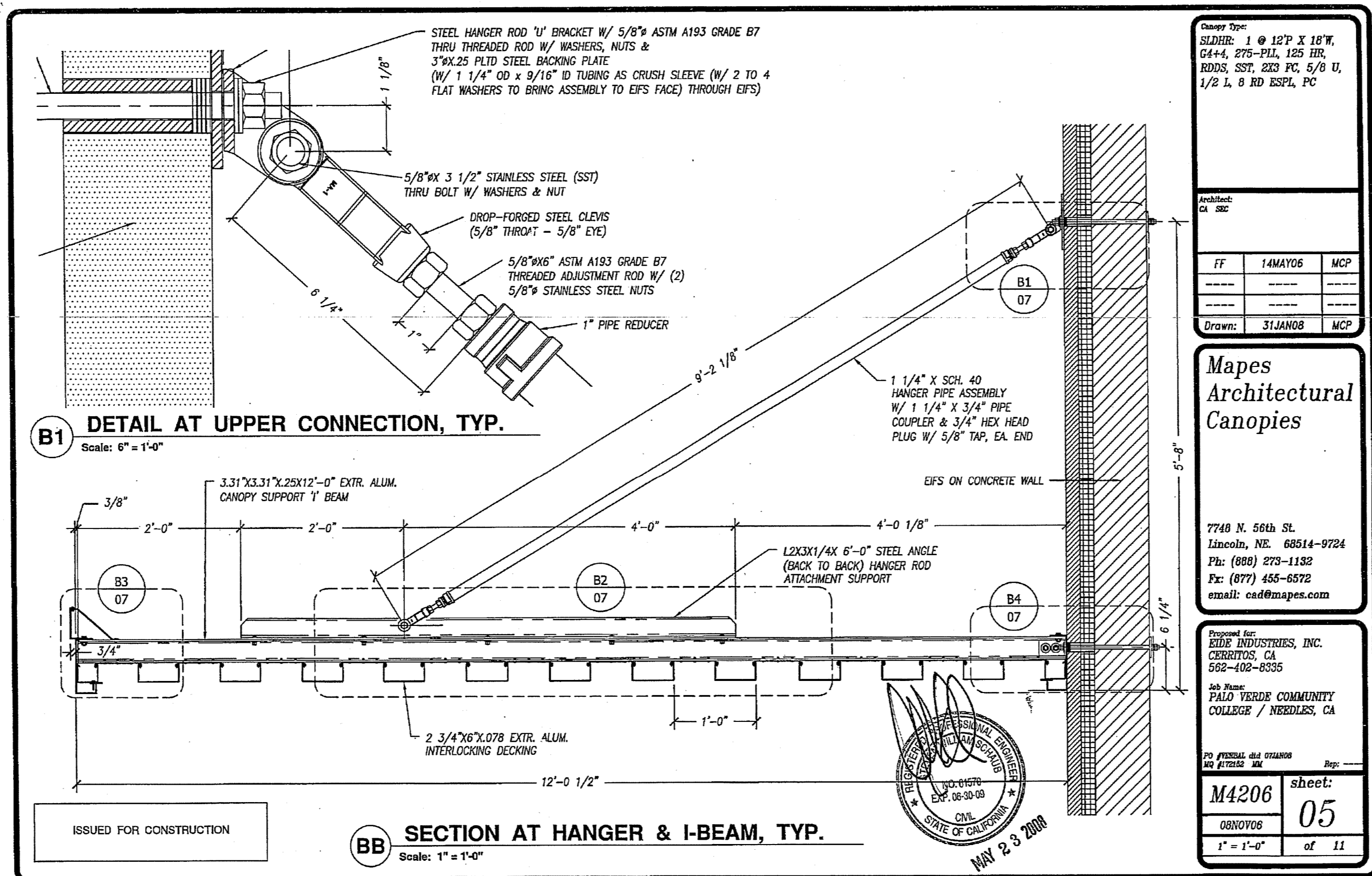
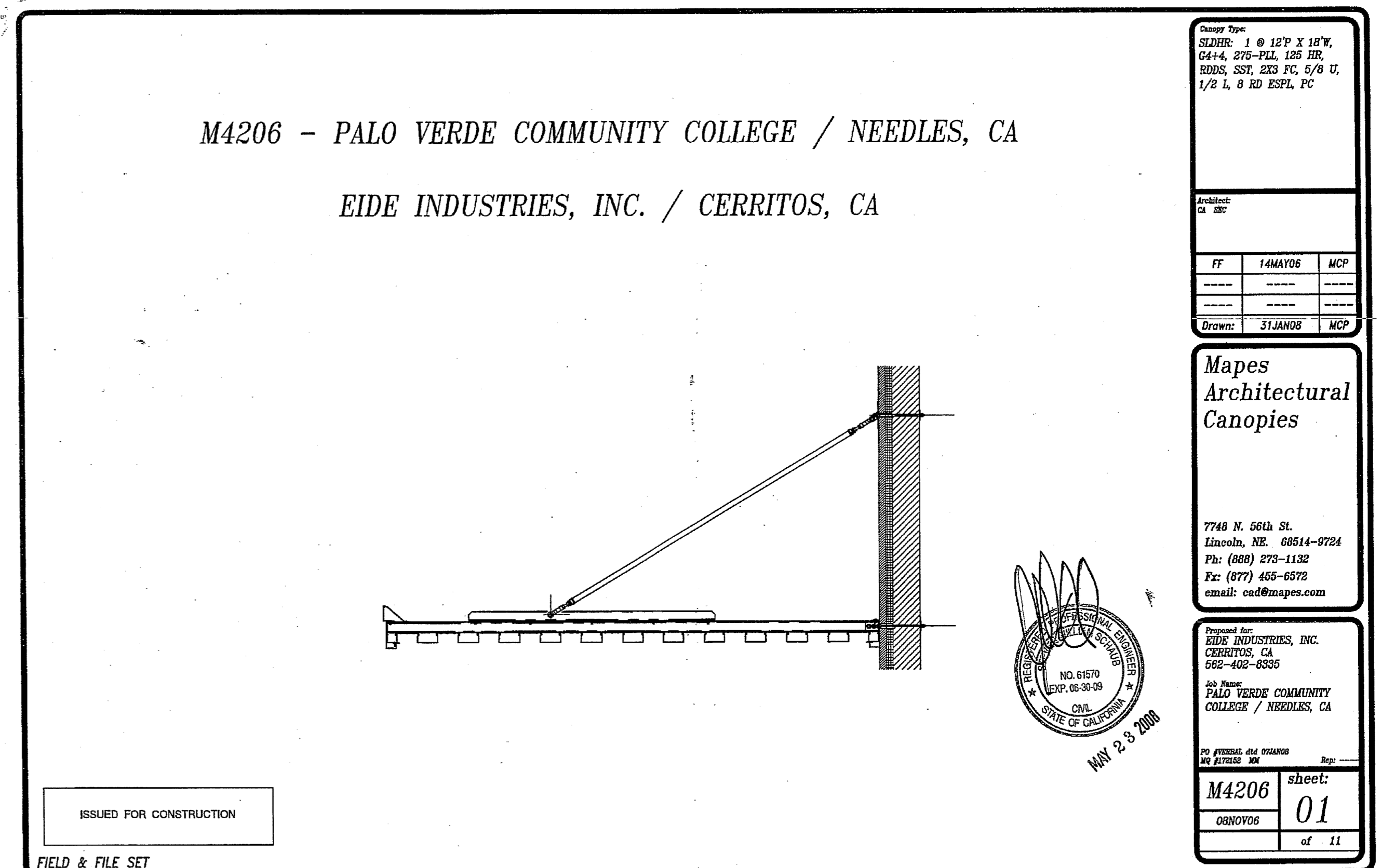
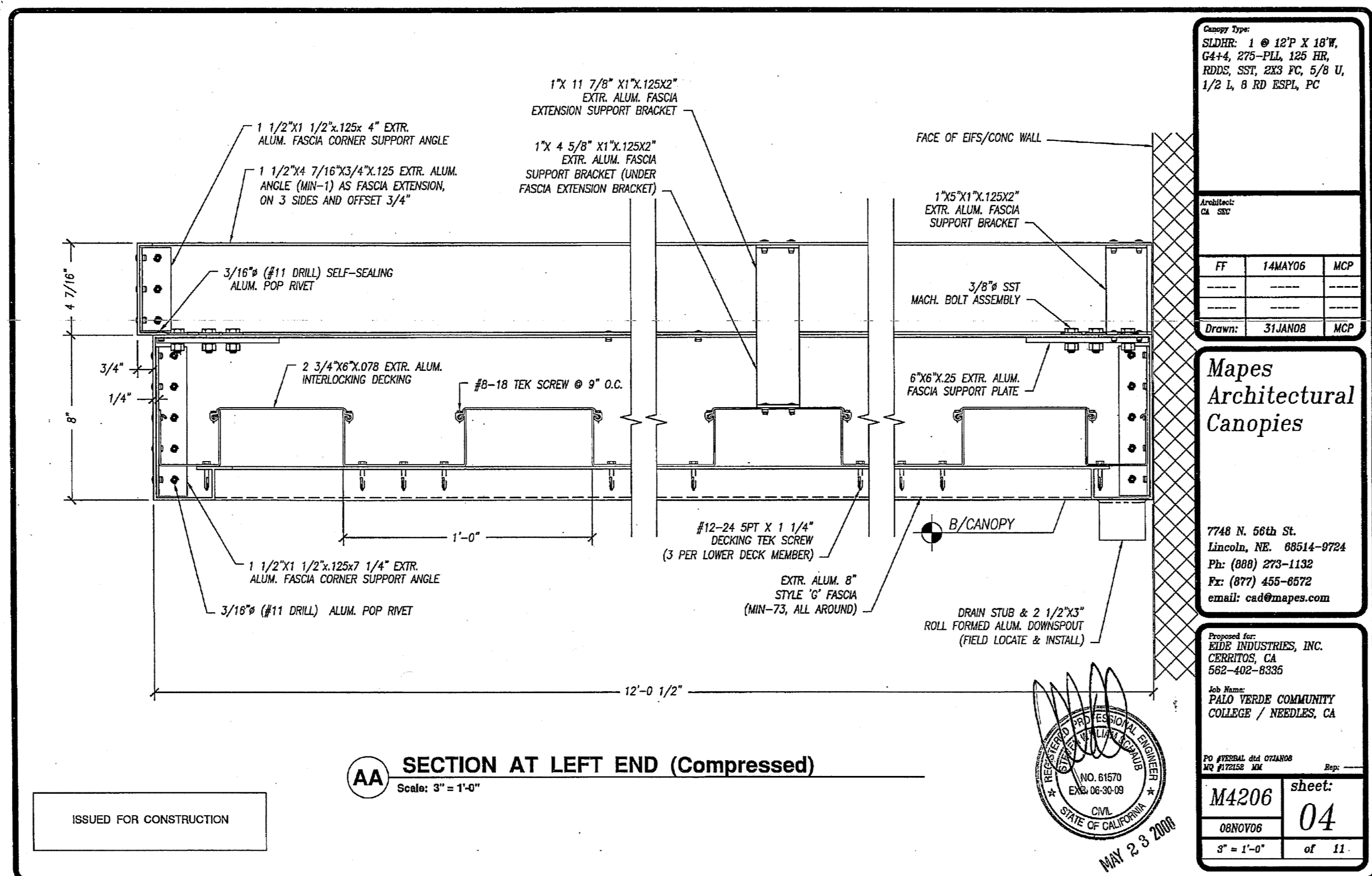
DATE: 07-06-07  
DRAWN: 2007-SH95-00  
CHECKED: KK, YCL  
DATE: APR 07 2011

110562

\*NOTE: ELEC. PANELS ARE LOCATED IN NON-RATED WALLS.

TYP. CABINETRY  
17 1-1/2" = 1'-0"

SHEET NO. A9.7



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JAY R. TITLE, AIA  
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STEPHEN R. HOSKINS, AIA  
ARCHITECT

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JOB NO.: 2007-SH95-00  
DRAWN: JVT  
CHECKED: JVT

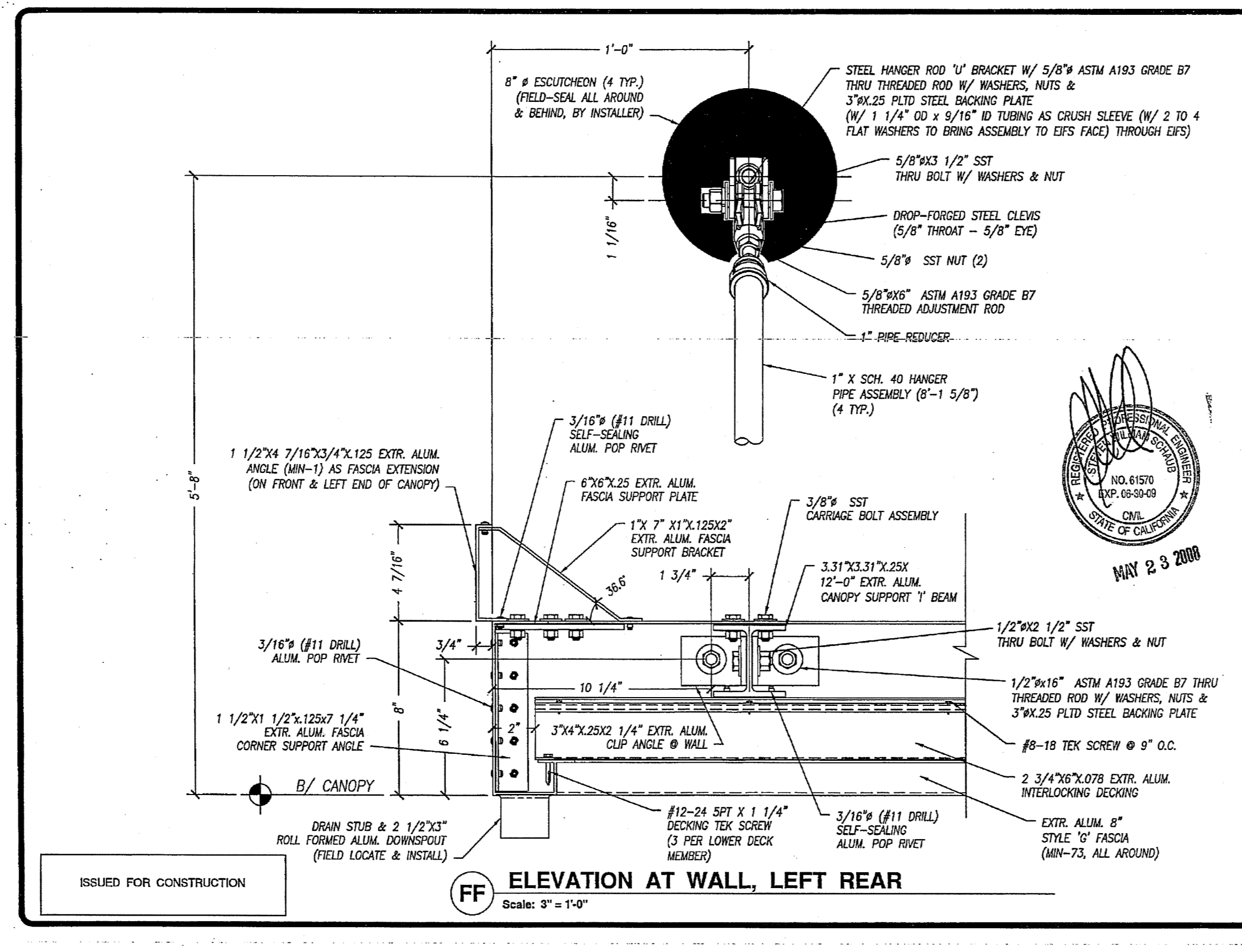
CLAYPOOL BUILDING RECONSTRUCTION  
PALO VERDE COLLEGE, NEEDLES CENTER  
PALO VERDE COMMUNITY COLLEGE DISTRICT  
725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363

EXTERIOR CANOPY DETAILS

SHEET NO. A9.8

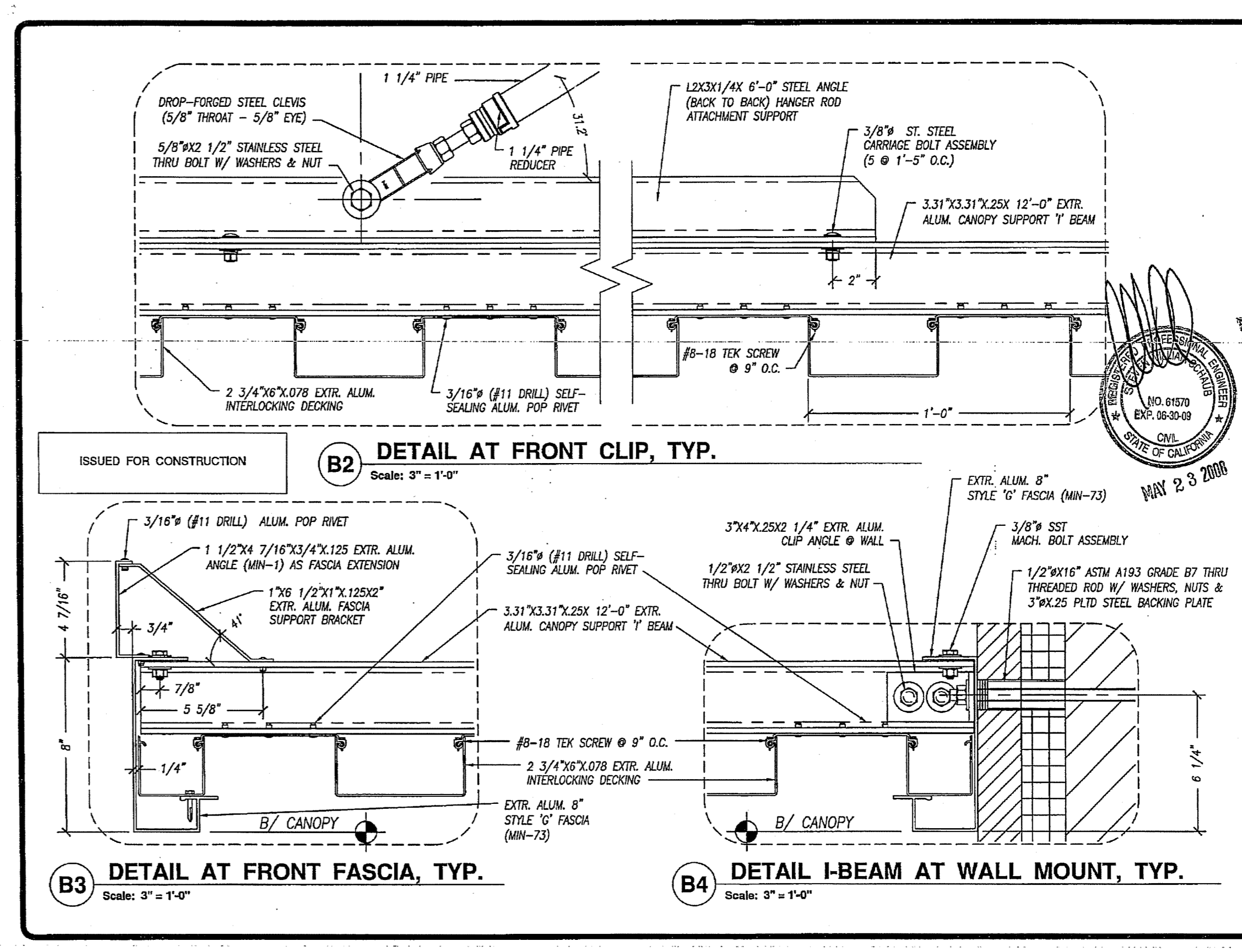
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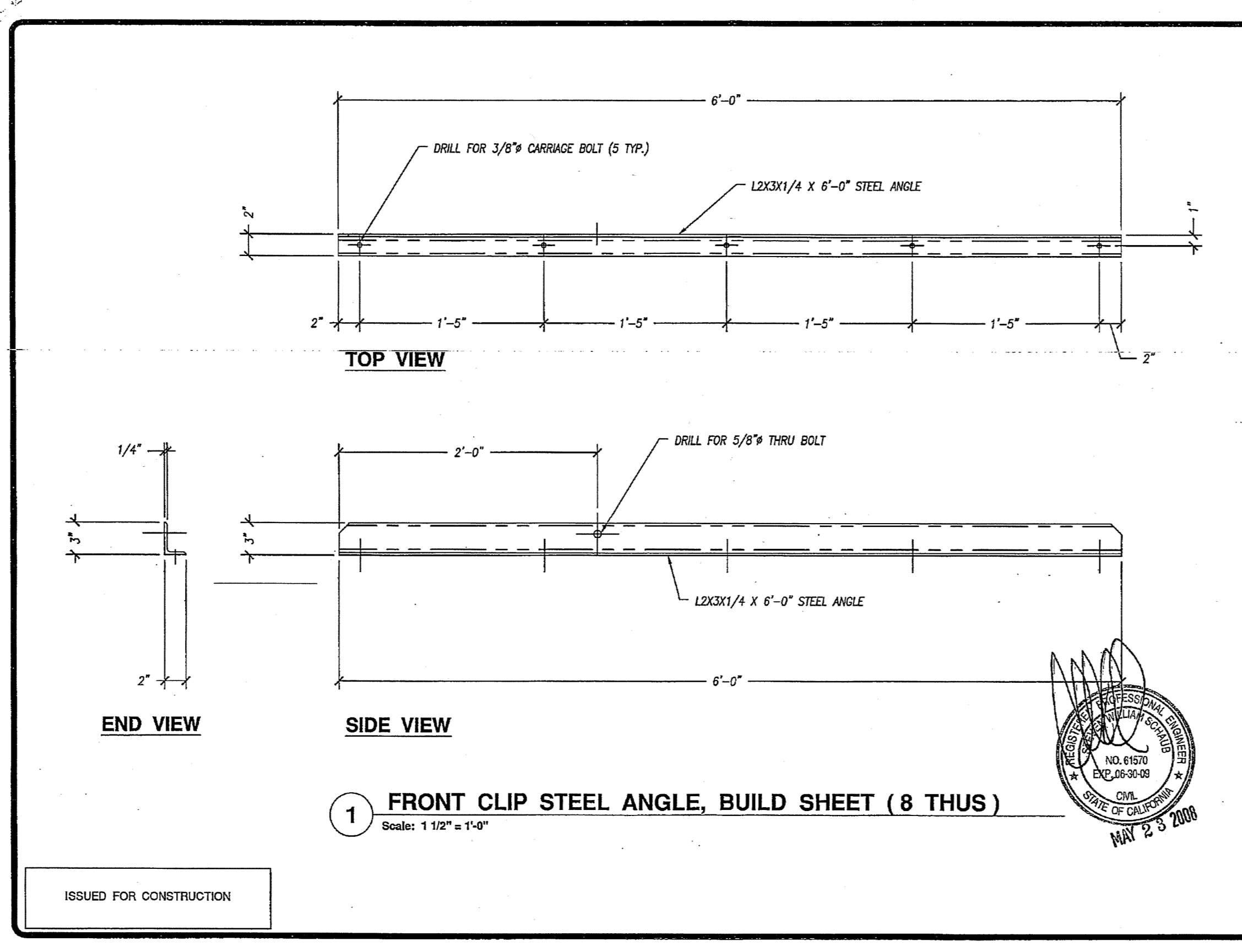
Mapes Architectural Canopies  
 7748 N. 56th St.  
 Lincoln, NE 68514-9724  
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 Fax: (877) 455-6572  
 email: cad@mapes.com

SHEET: M4206  
 OF: 11  
 DATE: MAY 23 2008



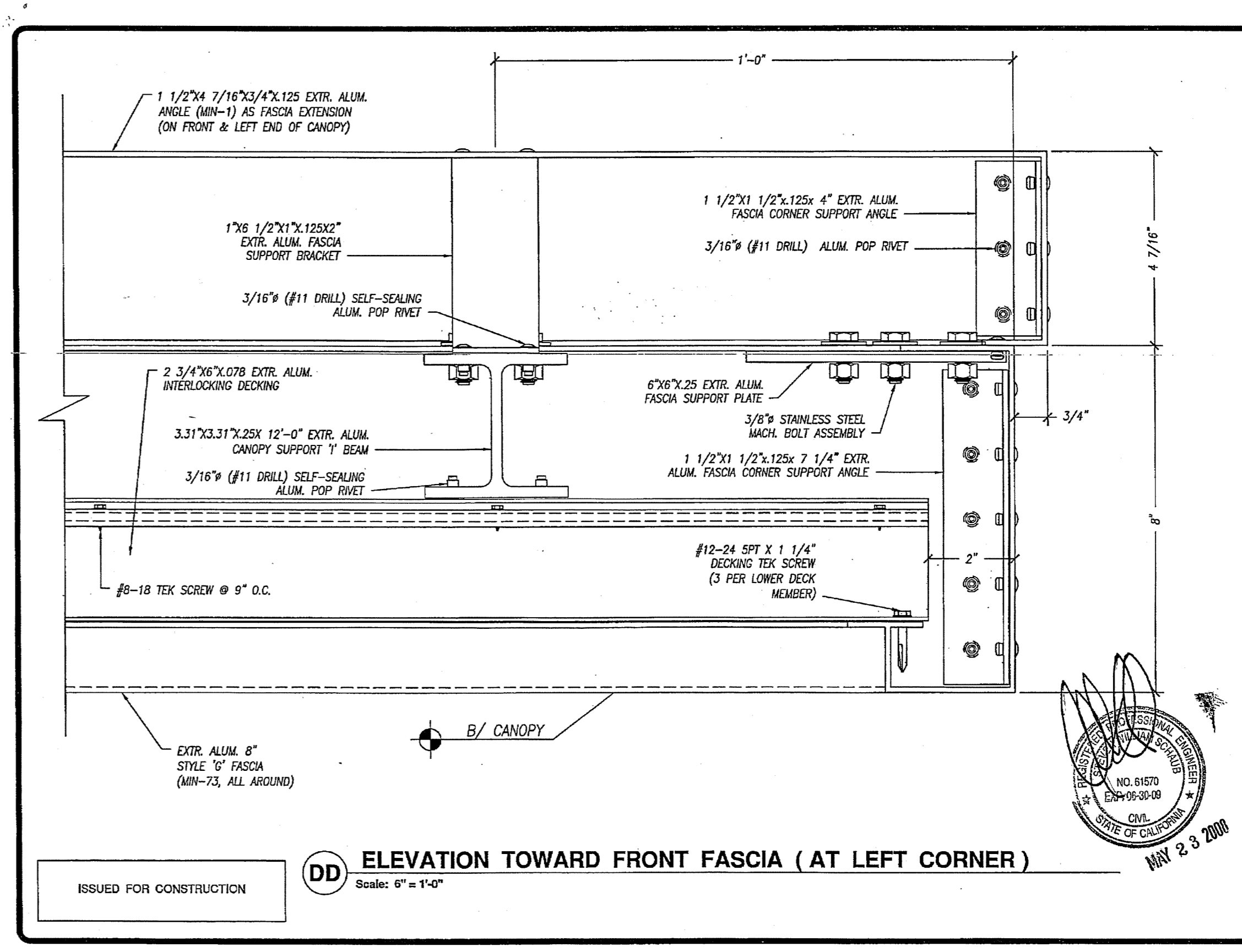
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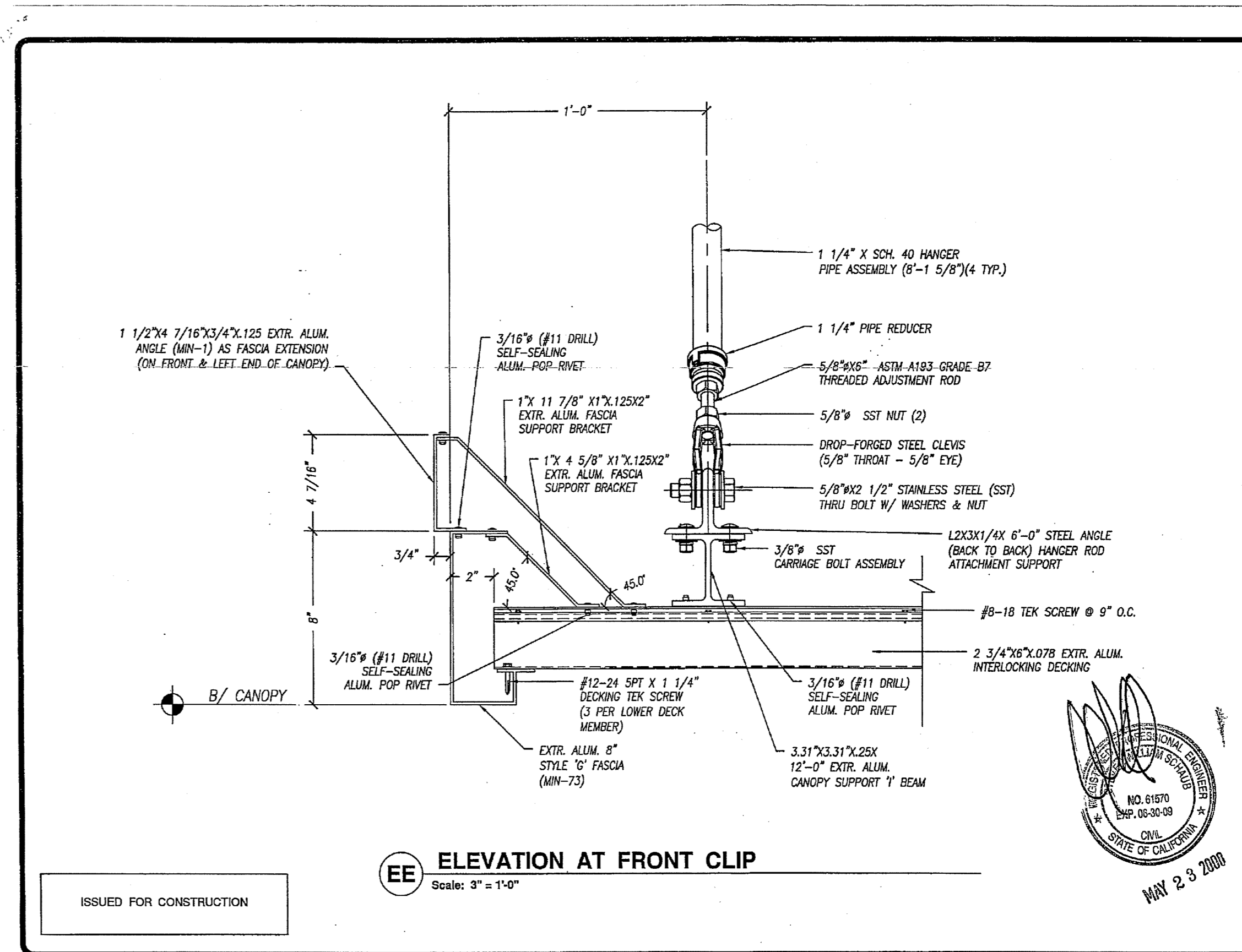
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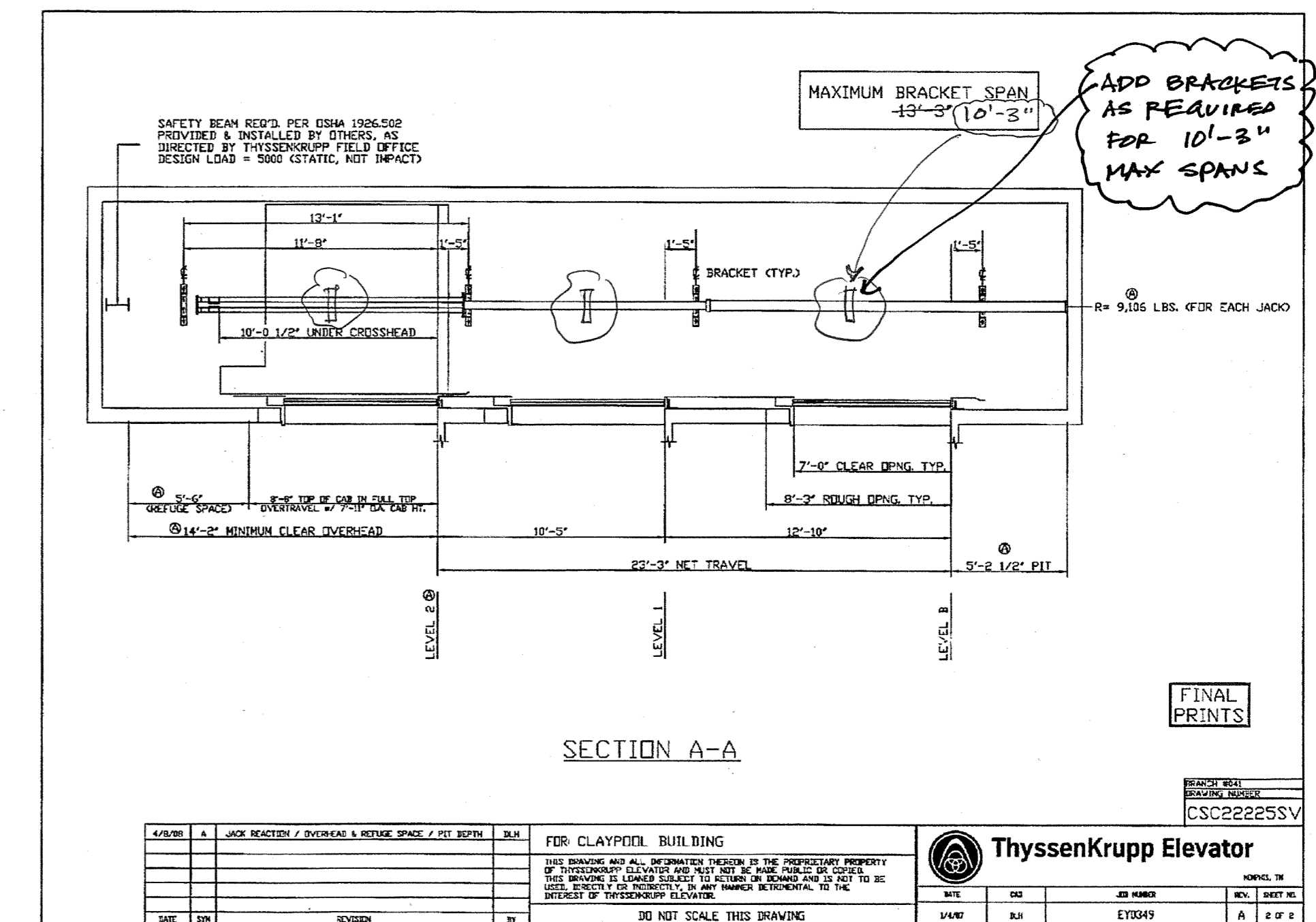
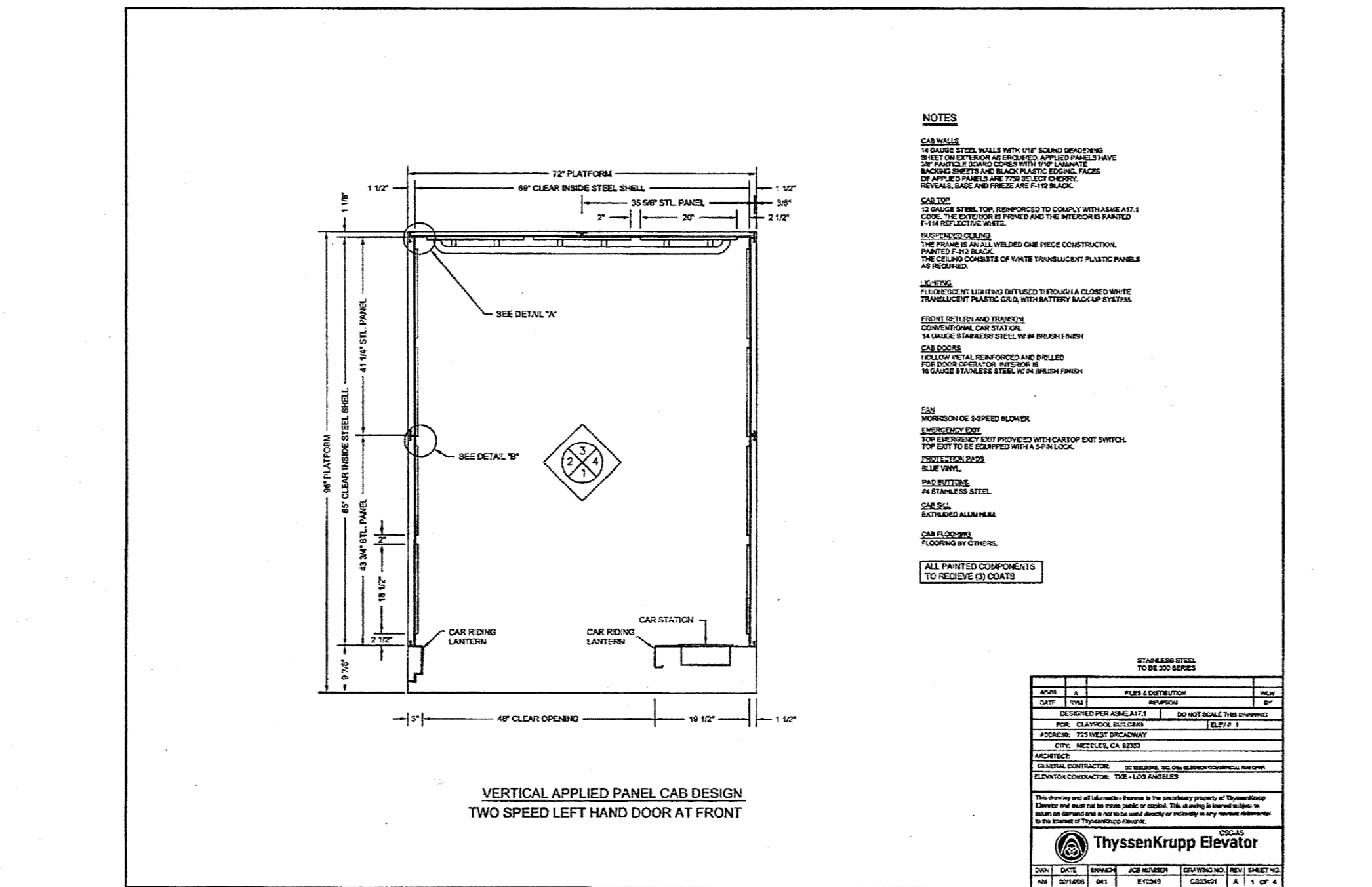
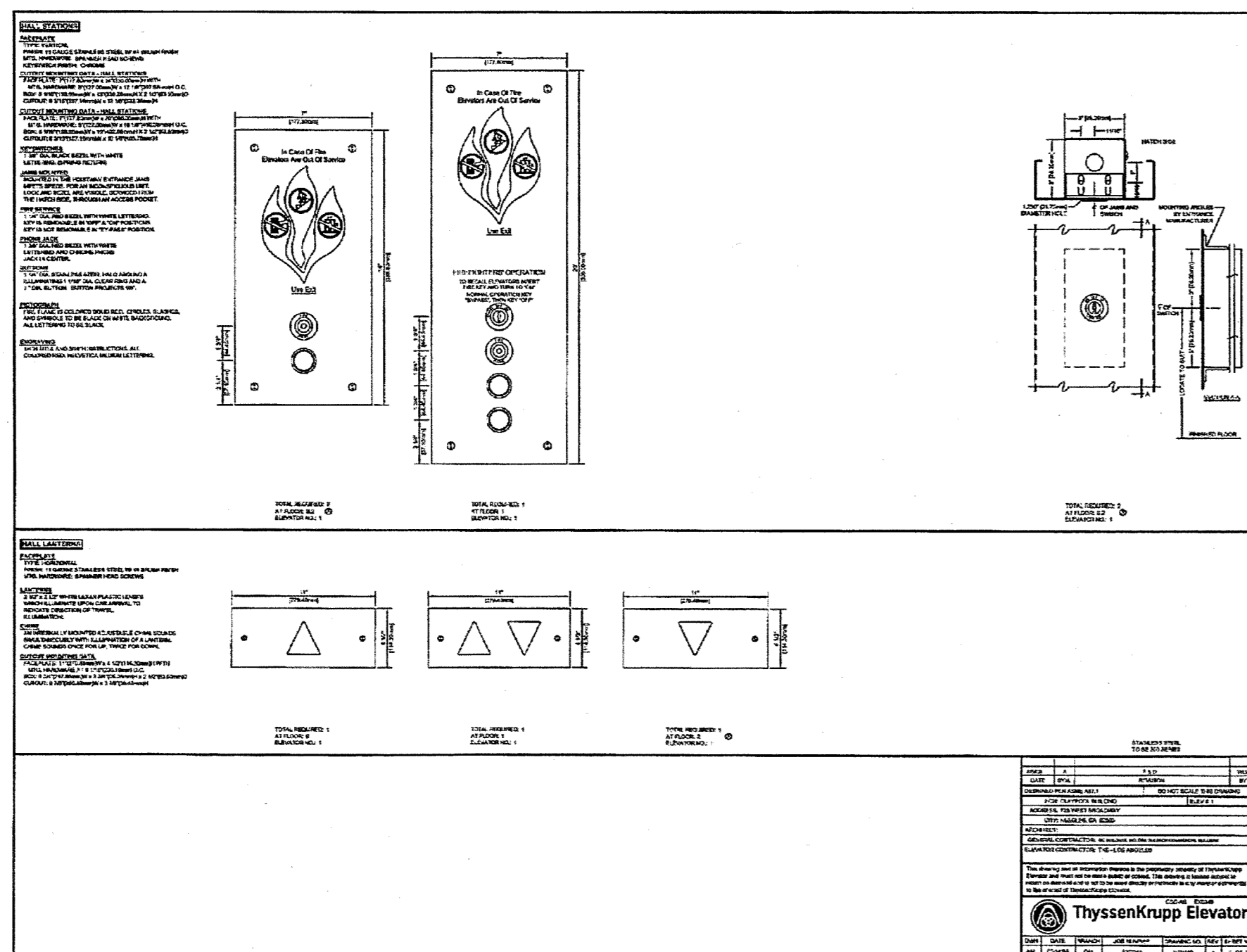
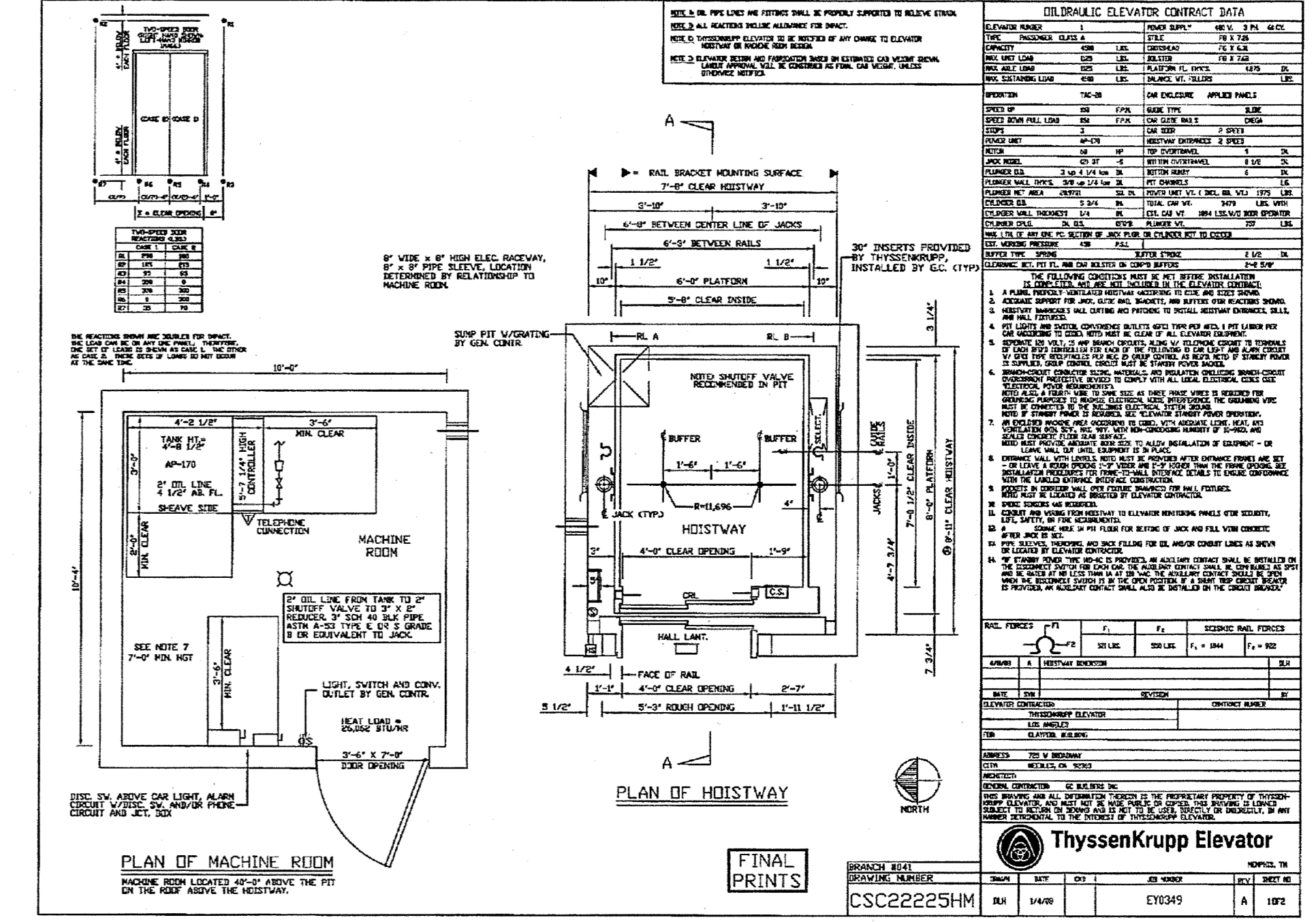
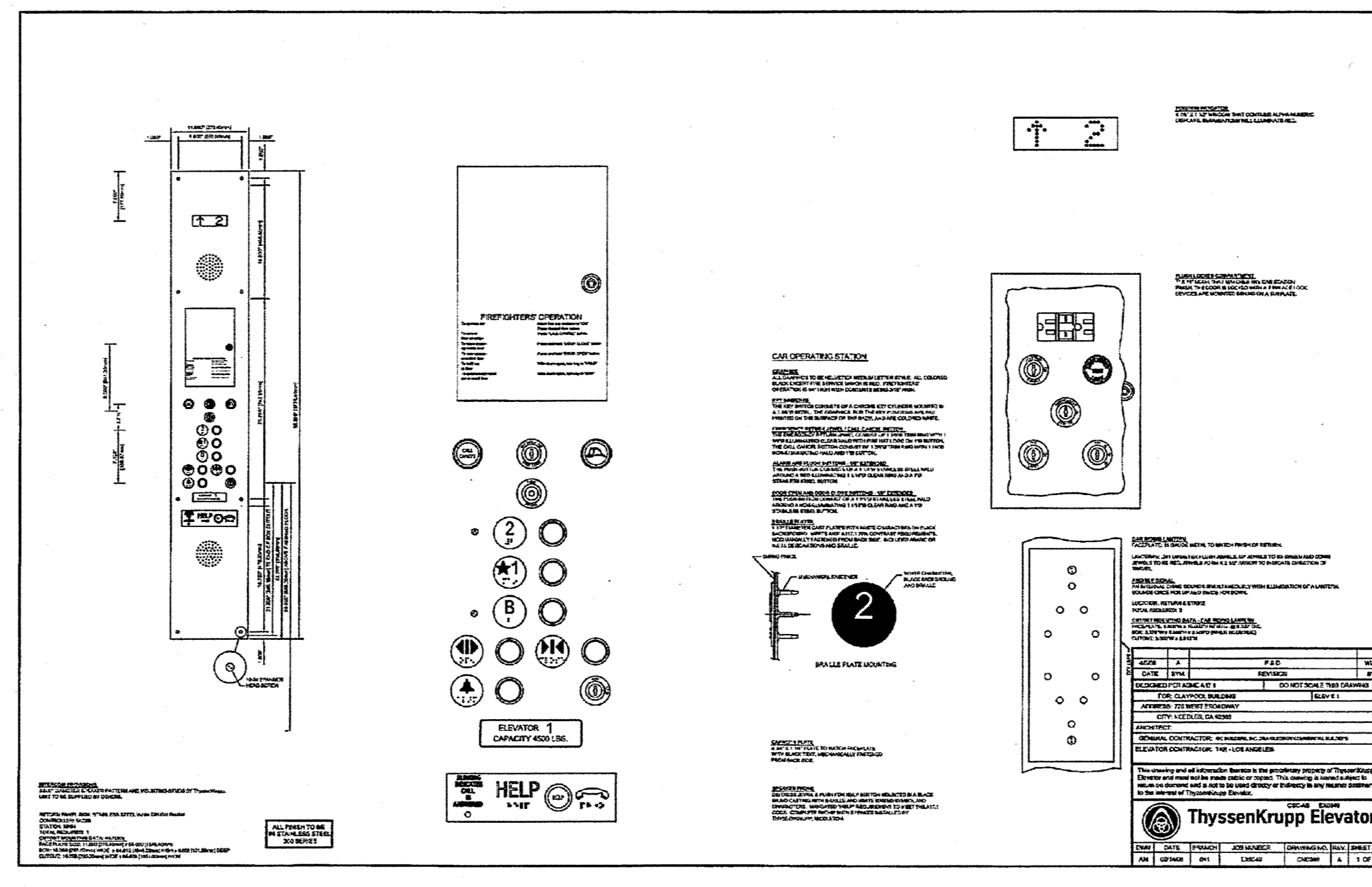
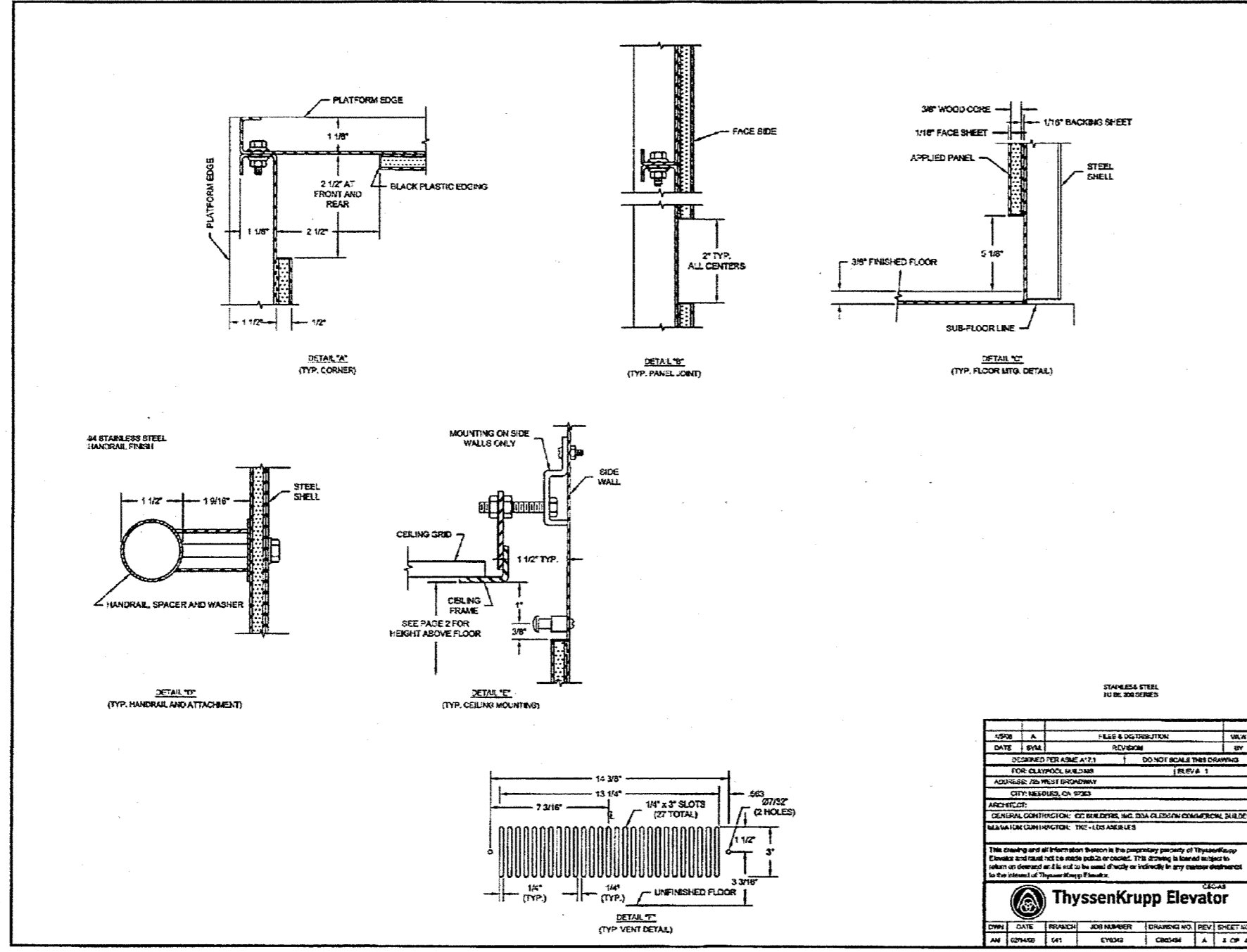
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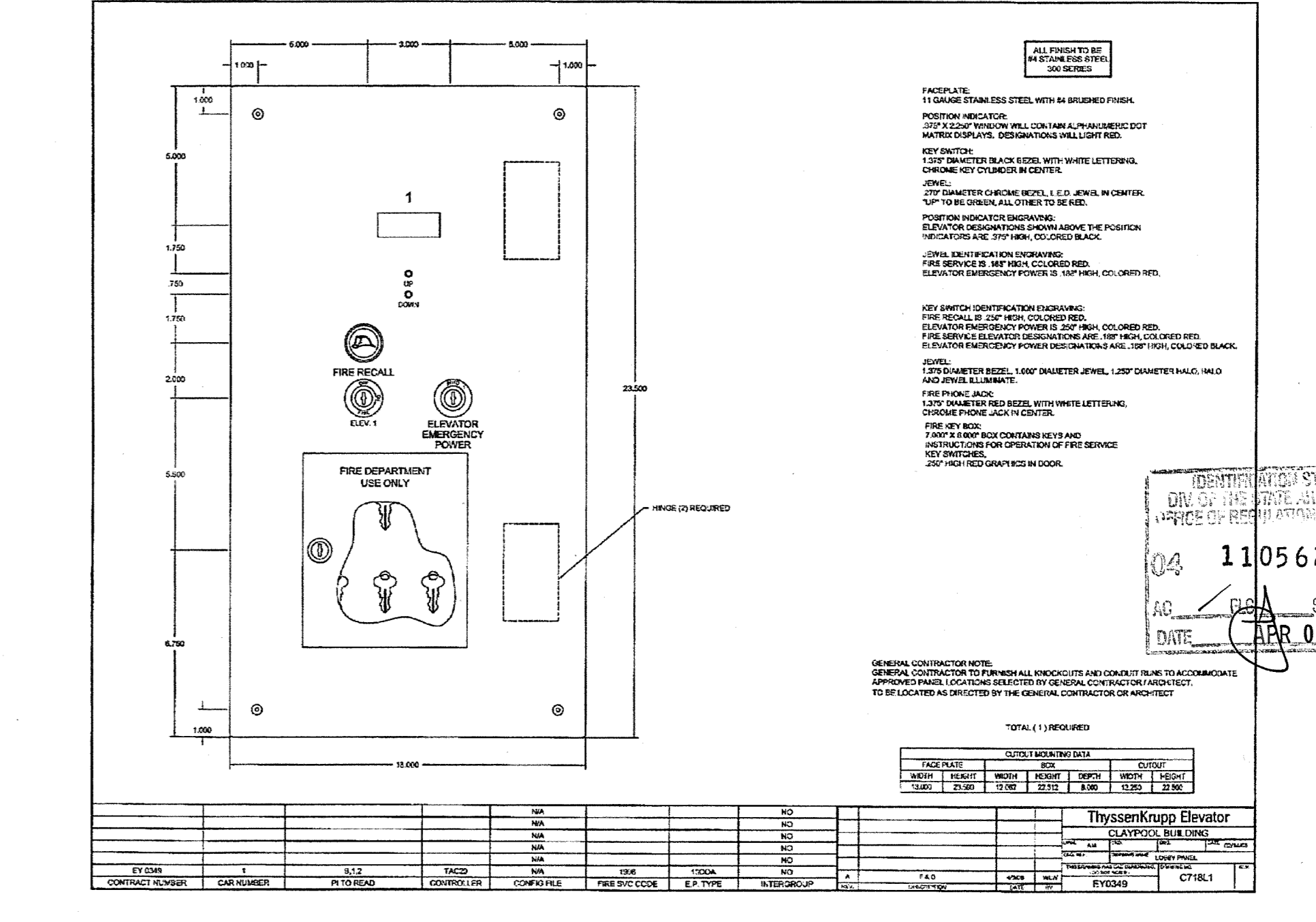
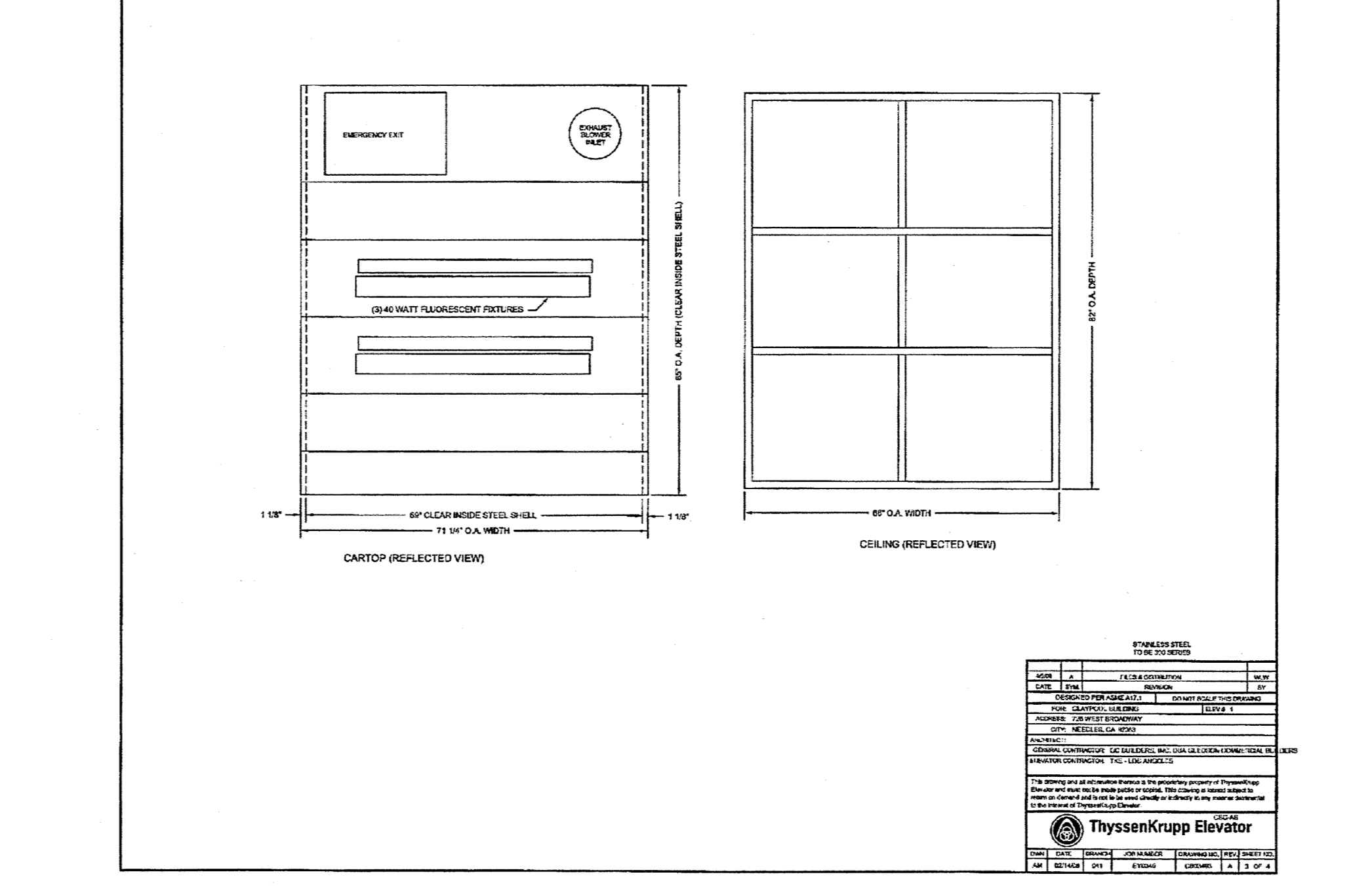
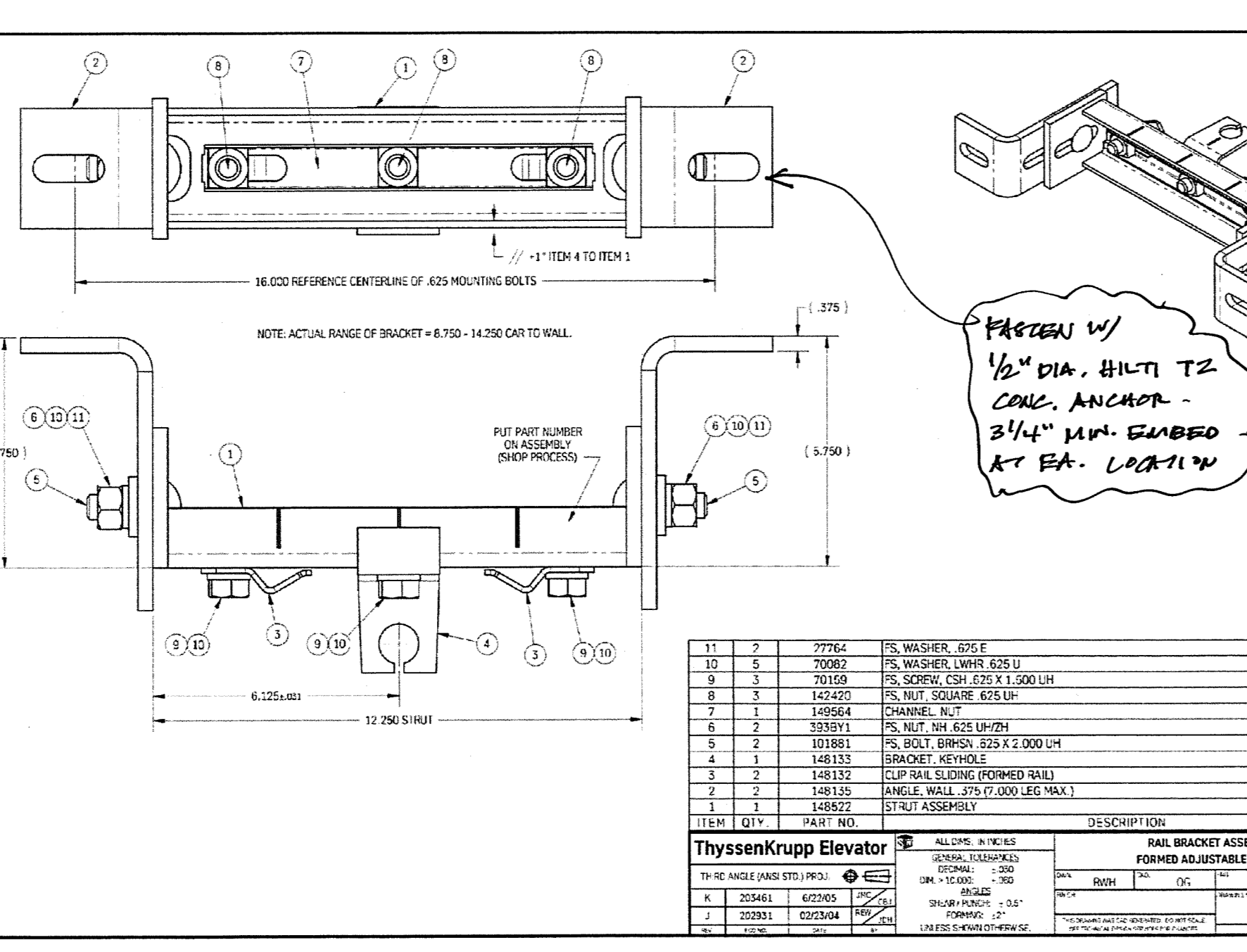
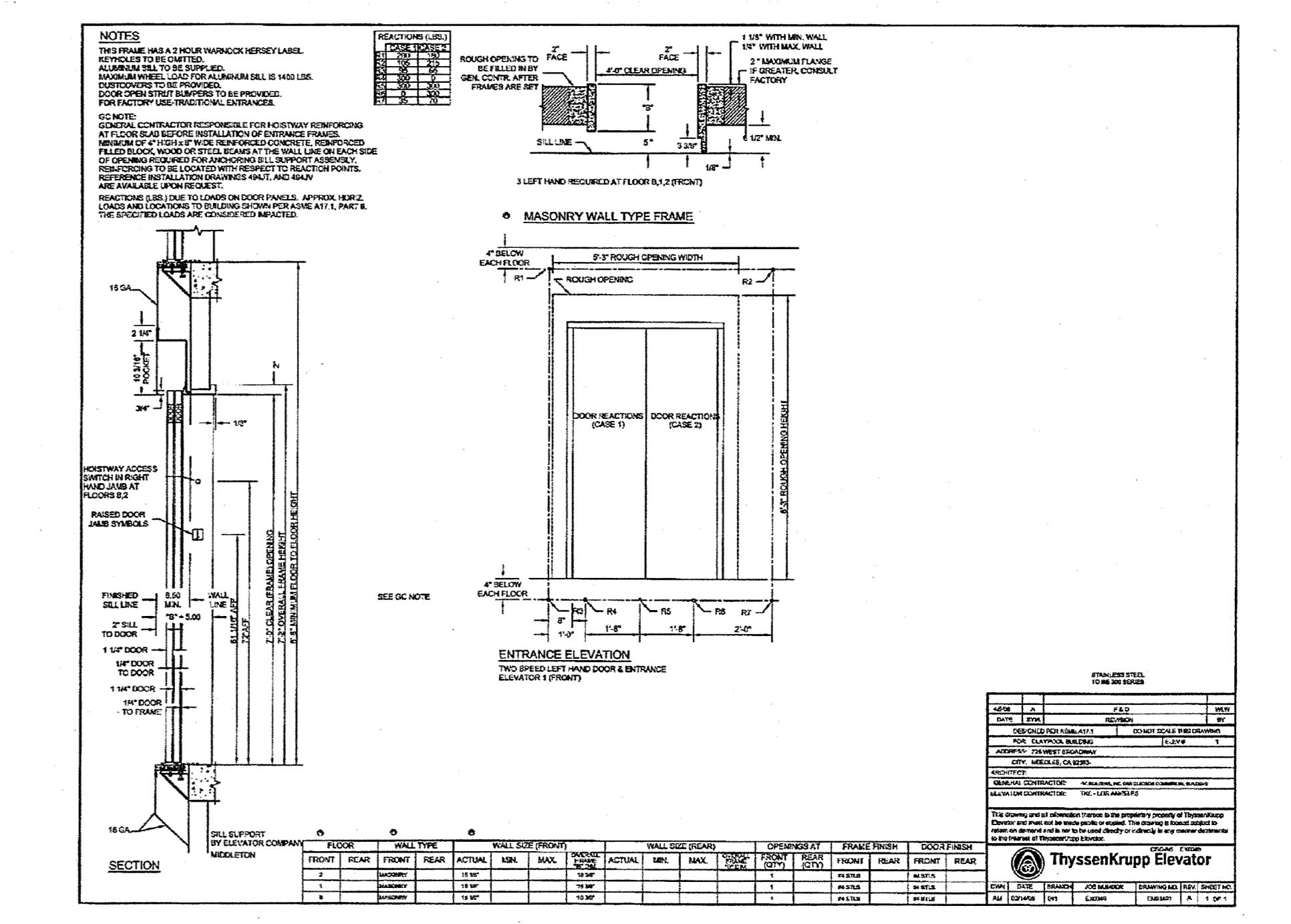
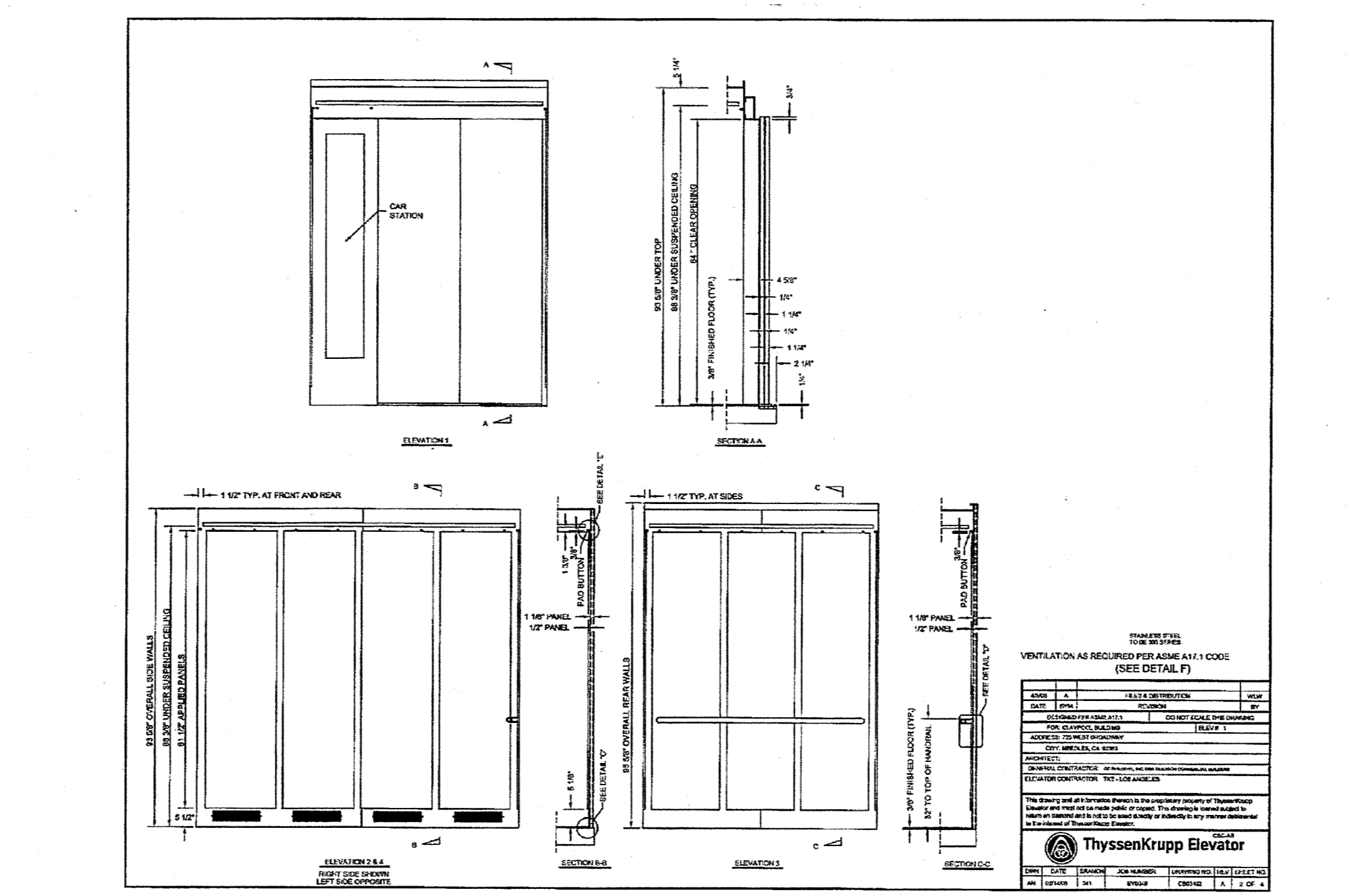
EXTERIOR CANOPY DETAILS  
 DATE: 07-06-07  
 DRAWN: 2007-SH95-00  
 CHECKED: JVT  
 SHEET NO. A9.9  
 SHEET OF

110562  
 DATE: APR 10 2011



FORMED		X-X AXIS											Y-Y AXIS													
NO.	SECTION	WEIGHT PER SQ. FT.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	AREA	
8	T89/B	8.270F	3.500	0.375	0.625	0.313	1.3125	2.438	0.438	2.250	0.80	1.43	0.87	0.77	1.28	0.72	0.72	2.43								
12	T127-1/8"	11.940F	5.000	0.375	0.625	0.313	1.750	3.500	0.438	3.125	1.08	4.47	1.86	1.13	3.56	1.43	1.01	3.51								
15	T127-5/8"	15.110F	5.000	0.375	0.625	0.500	2.000	3.500	0.625	3.125	0.97	4.77	1.89	1.04	5.53	2.21	1.11	4.44								
18.5	T142-1/8"	18.550F	5.500	0.500	0.748	0.500	2.000	4.250	0.625	3.625	1.28	5.11	2.28	1.33	7.45	2.70	1.17	5.46								
22.5	T142-5/8"	22.760F	5.500	0.688	1.125	0.625	2.000	4.021	0.688	3.625	1.37	10.08	4.15	1.28	8.60	3.12	1.13	8.20								
32	T142-3/4"	30.810F	5.500	0.750	1.250	0.688	2.250	5.000	1.000	3.625	1.72	22.90	6.59	1.58	11.88	4.24	1.13	9.08								

THIRD ANGLE (GAGE STD.) PROJ. ThysenKrupp Elevator. CURVE RAL DIMENSIONS AND PROPERTIES FOR DESIGNING. Includes a title block with project information and a ThysenKrupp Elevator logo.



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ThysenKrupp Elevator

DATE 07-06-07  
 JOB NO. 2007-SH95-00  
 DRAWING NO. 110562  
 CHECKED JVT  
 SHEET NO. A9.10  
 SHEET OF

**CONCRETE**

EXCAVATION: CONTRACTOR SHALL DO ALL EXCAVATING COMPLETE AS CALLED FOR ON PLANS AND IN SPECIFICATIONS. ALL EXCAVATE FOR BASEMENT, FOUNDATION WALL FOOTINGS, PIERS, ETC. COMPLETE. ALL EXCAVATIONS FOR WALLS AND FOOTINGS SHALL BE SMOOTH AND LEVEL AND CHECKED BY ARCHITECT BEFORE POURING CONCRETE. ALL FOOTINGS SHALL TERMINATE ON SOLID GROUND, NO FILLING IN WILL BE PERMITTED. SHOULD AN EXCAVATION BE MADE TO A GREATER DEPTH THAN REQUIRED, SAME SHALL BE FILLED WITH CONCRETE. THE EXCAVATED MATERIAL SHALL BE REMOVED FROM SITE.

FILLING: WHERE SHOWN ON PLANS OR REQUIRED BACK FILL WITH EARTH AND THOROUGHLY PUDDLE AND TAMP SAME AS SOON AS CONCRETE WALLS HAVE SET, AND LEFT LEVEL TO RECEIVE CEMENT FLOORS.

CEMENT: ALL CEMENT USED SHALL BE COLTON OR VICTOR BRAND AND SHALL BE TESTED AND DELIVERED TO SITE IN ORIGINAL AND UNBROKEN PACKAGES AS SPECIFIED ELSEWHERE AND PASSING IN ALL RESPECTS, REQUIREMENTS AS LAID DOWN BY THE STANDARD SPECIFICATIONS OF THE AMERICAN SOCIETY FOR TESTING MATERIALS AND ALL SUBSEQUENT AMENDMENTS THERE TO, AND A CERTIFIED COPY SENT TO THE ARCHITECT. CONTRACTOR SHALL PAY FOR SAID TEST AND IT SHALL NOT BE MADE BY MANUFACTURER OR ANYONE ITS EMPLOY. TESTER SHALL BE APPROVED BY ARCHITECT. BOTH A 24 HOUR AND A 7 DAY TENSILE TEST SHALL BE MADE. ONE COMPLETE TEST SHALL BE MADE OF EACH TWO HUNDRED BARRELS OF CEMENT, COMPOSED OF PORTIONS WHICH HAVE BEEN DRAWN FROM EVERY TENTH BARREL, SAID CEMENT SAMPLED AT MILL OR ON SITE. ALL CEMENT SHALL BE STORED IN A WATER TIGHT SHED WITH RAISED FLOOR.

HETTING TRENCHES: ALL TRENCHES AND OTHER EXCAVATIONS SHALL BE WET BEFORE CONCRETE IS POURED.

REINFORCED CONCRETE: THE ENTIRE EXTERIOR WALLS, FOOTINGS, AND ALL OTHER CONCRETE WORK SHALL BE CONSIDERED REINFORCED CONCRETE. THE DIMENSIONS UNLESS OTHERWISE INDICATED SHALL BE THE DIMENSIONS OF THE STRUCTURAL MEMBERS ONLY. ALL REINFORCED CONCRETE SHALL BE MIXED IN THE PROPORTIONS AS FOLLOWS, EXCEPT AS OTHERWISE DIRECTED BY ARCHITECT. 1 PART CEMENT, 2 1/2 PARTS SAND, 3-1/2 PARTS ROCK, USING APPROXIMATELY SIX GALLONS OF WATER TO EACH SACK OF CEMENT. THE SPIRIT OF THIS CLAUSE IS THAT AN EXTREMELY UNIFORM AND THOROUGHLY MIXED CONCRETE WILL BE REQUIRED. THE WATER RATIO SHALL NOT EXCEED .80 TO CEMENT AND THE VOIDS IN SAND SHALL NOT EXCEED 3% AND VOIDS IN ROCK 4%.

SUMP TEST: THE SUMP SHALL NOT EXCEED 4 1/2", UNLESS OTHERWISE DIRECTED. SAID TEST SHALL BE MADE WITHIN 3 DAYS OF THE CASTING AND THE STANDARD METHOD USED BY STATE SHALL BE USED. IT SHALL BE MADE OF GALV. IRON 12" HIGH, 4" IN DIA. AT TOP AND 8" IN DIA. AT BASE, OPEN EACH END WITH HANDLES ON TOP.

SAND: ALL SAND SHALL BE CLEAN, COARSE RIVER SAND, CONTAINING NOT MORE THAN 5% LOAN OR FOREIGN MATTER AND SCREENED THRU A 1/4" SCREEN, WITH NOT MORE THAN 25% OF THE BULK PASSING THRU A 30 MESH SIEVE. THE GRADUATION FROM COARSE TO FINE SHALL BE REASONABLY UNIFORM.

ROCK: SAME SHALL CONSIST OF CLEAN, HARD, AND DURABLE SCREENED GRAVEL OF A QUALITY APPROVED BY ARCHITECT. ALL ROCK SHALL BE GRADED FROM 1/4" TO 3/4" IN DIAMETER EXCEPT IN FOOTINGS AND MASS CONCRETE ROCK MAY BE USED UP TO 2 1/2". ROCK SHALL BE FREE FROM CLAY AND CONTAIN NOT MORE THAN 5% FOREIGN MATTER.

THE CARPENTER CONTRACTOR SHALL LAY OUT THE BUILDING FROM THE DRAWINGS, REPORT TO THE ARCHITECT ANY DISCREPANCIES IN THE DRAWINGS, MAKING NO DECISIONS HIMSELF AS TO HOW THEY ARE TO BE REMEDIED. FAILING TO DO SO, HE WILL BE HELD RESPONSIBLE FOR ANY EXPENSES RESULTING THEREFROM.

THE FORMING ON STREET FRONTS SHALL BE DONE WITH CARE SO THAT NO POCKETS WILL FORM AND NO PATCHING WILL BE REQUIRED AND LEAVE THE WALL IN PERFECT SHAPE FOR THE PAINTER TO APPLY BONDEX. NO PLASTER WILL BE APPLIED ON OUTSIDE CONCRETE WALLS.

NAILING BLOCKS: THIS CONTRACTOR SHALL PROVIDE NAILING BLOCKS FOR ALL WORK REQUIRING SAME.

MIXING & PLACING: ALL CONCRETE SHALL BE MIXED IN A BATCH MIXER AT LEAST 30 SECONDS. THE MIXING AND PLACING OF EVERY BATCH OF CONCRETE SHALL BE SUBJECT TO APPROVAL OF THE ARCHITECT. PLACING IN FORMS MAY BE DONE BY SUCH MEANS AS THE CONTRACTOR SEES FIT, BUT IT SHALL BE DONE CAREFULLY, SO AS NOT TO DISARRANGE THE REINFORCEMENT AND SHALL BE DONE BY A COMPETENT FOREMAN. COLUMNS OR PIERS SHALL BE FILLED TO THE BOTTOMS OF BEAMS AND ALLOWED TO SET FOR FOUR HOURS, AFTER WHICH THE BAY FORMS MAY BE FILLED. COLUMN OR PIER FORMS SHALL NOT BE FILLED UNTIL THE BEAM STEEL IS IN PLACE. ALL BEAMS SHALL RUN CONTINUOUS OVER COLUMNS. NO CONCRETE SHALL BE USED AFTER IT HAS ACQUIRED ITS INITIAL SET.

STEEL: ALL BARS USED UNLESS OTHERWISE SPECIFIED SHALL BE APPROVED DEFORMED SQUARE BARS FREE FROM SCALE AND HAVING AN ELASTIC LIMIT OF NOT LESS THAN 33,000 LBS. PER SQ. INCH AND AN ULTIMATE STRENGTH OF NOT LESS THAN 40,000 LBS. PER SQ. INCH AND SHALL BE MILD STEEL AND CONFORM WITH MANUFACTURER'S STANDARD SPECIFICATIONS.

ALL FOOTING STEEL SHALL BE 3" FROM BOTTOM, ALL WALL STEEL 1/2" FROM BORDERS. COLUMN STEEL 2" FROM FORMS, AND SLAB STEEL 3/4" FROM FORMS UNLESS OTHERWISE SHOWN. UNLESS OTHERWISE SPECIFIED ALL STEEL THAT COMES IN CONTACT WITH EACH OTHER SHALL BE WIED WITH #16 GALV. IRON WIRE. ALL BARS SHALL BE OF LENGTH AS REQUIRED AND NO SPLICING WILL BE PERMITTED. ALL TENSION STEEL IN BEAMS SHALL EXTEND 12" BEYOND OPENING UNLESS OTHERWISE SPECIFIED. WHERE 3/4" BARS ARE USED SAME SHALL BE HOOKED AT ENDS.

WALL REINFORCEMENT: ALL CONCRETE WALLS ABOVE FOOTING COURSE SHALL BE REINFORCED WITH 3/4" SQ. BARS BY O.C. BOTH WAYS, BOTH FACES, STAGGERED, LAPPED 18", BENT AROUND CORNERS 2 CH. UNLESS OTHERWISE SPECIFIED OR SHOWN ON PLANS, AND WIED TOGETHER WITH #16 WIRE. PROVIDE TWO 3/4" SQ. BARS ABOVE ALL OPENINGS UNLESS OTHERWISE SHOWN, ALSO TWO 3/4" SQ. BARS PLACED DIAGONALLY ABOVE AND BELOW ALL OPENINGS AT CORNERS IN CONCRETE WALLS THROUGHOUT AS SHOWN ON TYPICAL WINDOW. UNLESS OTHERWISE SHOWN PLACE TWO 3/4" SQ. BARS UNDER ALL WINDOW OPENINGS AND SHALL BE CONTINUOUS WHERE WINDOWS ARE GROUPED TOGETHER. WALLS SHALL BE SO POURED THAT THE STRUCTURE WILL BE MONOLITHIC AND BONDED TOGETHER AS A UNIT. PROVIDE DOWELS FOR ALL WALLS AND COLUMNS SAME SIZE AS BARS IN SAID WALLS AND COLUMNS AND THE SAME SPACING, UNLESS VERTICAL BARS CAN BE PLACED IN ONE LENGTH THEN DOWELS SHALL EXTEND 30 DIAMETERS ABOVE WALL TO RECEIVE NEXT POURING. ALL COLUMNS OR PIERS THROUGHOUT SHALL BE REINFORCED WITH FOUR 3/4" SQ. BARS WITH 1/4" ROUND STAYS #1 O.C. WIED TO SAME. ALL SLABS SHALL BE REINFORCED AS SHOWN AND IN ADDITION SHALL HAVE TEMPERATURE STEEL OF 1/4" SQ. BARS @ O.C. AND LAPPED 12". ALTERNATE BARS IN SLABS SHALL BE BENT UP AT ANGLE OF 30 DEGREES AT THE 5TH POINT. ALL CONCRETE FLOORS IN BASEMENT AND WHERE SAME IS ON GROUND, INCLUDING SIDEWALK SHALL BE REINFORCE WITH 4"x12", #10 #12 WIRE CLOTH FISH. CEMENT FINISH: THE CEMENT FINISH IN BASEMENT AND MAIN FLOOR SHALL BE 3/8" THICK AND THE BALANCE OF THE FLOORS SHALL HAVE A 1/2" FINISH UNLESS OTHERWISE INDICATED. ONE PART OF CEMENT AND TWO PARTS OF SAND, MARKED OFF AS DIRECTED. THE SIDEWALK SHALL BE MARKED OFF IN A SQUARE 24"x48" APPROXIMATELY AS DIRECTED. THE BALANCE OF THE FLOORS UNLESS OTHERWISE SPECIFIED SHALL BE MARKED OFF IN LARGE SQUARES. THE LADIES REST ROOM FLOOR SHALL BE MARKED OFF IN 4"x24" SQUARES.

UNLESS OTHERWISE SHOWN ON PLANS OR SPECIFIED THE FLOOR THICKNESS SHALL BE AS FOLLOWS: BASEMENT 4 1/2", MAIN FLOOR 3", MEZZANINE FLOOR AND FLOOR ON STEEL TRUSSED JOISTS ABOVE CEILING SHALL BE 2 1/2" AND THE ABOVE THICKNESSES SHALL INCLUDE THE FINISH.

**BRICKWORK**

ALL BRICKWORK IN CHIMNEY SHALL BE GOOD HARD BURNED BRICK Laid UP IN LINE HORTAR WITH 1/8" GEMENT ADDSD THERE TO. PROVIDE AND SET TERRA COTTA THIMBLE AS REQUIRED BY HEATING MAN. PROVIDE AND SET TERRA COTTA FLUE LINING FULL HEIGHT OF CHIMNEY. BUILD CEISSPOOL IN REAR YARD 4" IN DIA. AND 10' DEEP BRICKED UP LOOSELY AND WITH SOLID ARCHED DOME OVER SAME TWO FEET BELOW YARD.

**CARPENTER WORK**

THE ROUGH FRAMING LUMBER SHALL BE BEST QUALITY #1 COMMON O.P. AND SIZED. ALL LUMBER SHALL BE FREE FROM SHAKES, KNOTS, OR IMPERFECTIONS MATERIALLY AFFECTING ITS STRENGTH. THE FLOOR JOISTS AND OTHER IMPORTANT TIMBERS SHALL BE SO FRAMED THAT IT MAY NOT BE NECESSARY TO OUT SOME FOR PIPES ETC. ALL JOISTS SHALL HAVE A BEARING OF AT LEAST 4" ON WALLS. ALL STUDS SHALL REST ON PLATES AND BE SPIKED THERE TO. ALL ROUGH OPENINGS OVER 3 FT. SHALL HAVE 6"x8" GIRDEERS OVER SAME UNLESS OTHERWISE SHOWN, AND ALL STUDS AT OPENINGS SHALL BE DOUBLED. ALL PLATES SHALL BE BOLTED TO CONCRETE WITH 1/2"x12" BOLTS AND NUTS 4"-0" O.C. FRAME DOUBLE HEADER AND TRIMMERS FOR ALL OPENINGS UNLESS OTHERWISE SPECIFIED SET THE PARTITIONS AS SHOWN ON PLANS STRAIGHT AND PLUMB. PARTITIONS ADJUTING AGAINST CONCRETE SHALL BE BOLTED SAME AS PLATES FROM ALL ANGLES SOLID BY SPIKING TWO STUDS TOGETHER, WITH ANGLES BACKED UP WITH 1" O.P. PROVIDE ALL NAILING BLOCKS FOR FINISH. JOISTS IN PLATES SHALL BE BROKEN OVER THE STUDS AND NO TOGETHER. PROVIDE SOLID WOOD BACKING AS DIRECTED IN TOILET ROOMS FOR PAPER HANGERS, MIRRORS, ETC. ALL ROOF JOISTS SHALL BE OF SIZE AND SPACING AS SHOWN, AND THE ENTIRE STRUCTURAL WORK SHALL BE CARRIED OUT IN DETAIL TO SUIT THE ARCHITECT.

SCAFFOLDING: GENERAL CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ROUGH SCAFFOLDING FOR PLASTERER, IN ACCORDANCE WITH STATE LAWS, BUT PLASTERER WILL FURNISH HIS OWN PLANKS.

CREOSOTE: ALL WOOD JOISTS AND ALL OTHER FRAMING LUMBER SETTING IN OR ADJUTING CONCRETE SHALL BE TREATED WITH CREOSOTE BY GENERAL CONTRACTOR, PUT ON WITH SPRAY AS DIRECTED.

STUDDING: ALL STUDS UNLESS OTHERWISE NOTED SHALL BE 2"x6"x16" O.C., ALL PLATES DOUBLED AT TOP 9" I.S.I.E. ALL PARTITIONS SHALL BE BRACED WITH ONE SET OF 2" BRINGING, ALSO DIAGONAL BRACING AS WILL BE DIRECTED BY ARCHITECT.

SHEATHING: THE ENTIRE ROOF SHALL BE SHEATHED WITH 1"x6" OR 1"x8" O.P. SHEATHING NAILED AT EACH BEARING WITH TWO 8D NAILS.

FURRING: CONTRACTOR SHALL FURR OUT AND FRAME FOR PLUMBING WORK, ELECTRIC WORK, HEATING, OR OTHERWISE NECESSARY TO BRING THE PLASTERING ABOVE ON A LINE WITH THE PLASTERING SURFACE BELOW OR IN ANY INSTANCE WHERE IT MAY BE NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS. GENERAL CONTRACTOR SHALL DO ALL BACKING UP FOR TILE CONTRACTOR.

ROOFING STRIPS: ALL WOOD CEILING JOISTS SHALL BE STRIPPED WITH 1"x2" O.P. SIZED FURRING STRIPS SET 12" O.C.

GROUNDS: FURR OUT WITH WOOD LATH SET WITH GAUGE TO FORM GROUNDS FOR PLASTER ON STUD WALLS.

SUB-FLOORS: ALL HARDWOOD FLOORS SHALL HAVE A 1"x6" O.P. SUB-FLOOR NAILED AT EACH BEARING, LAID DIAGONALLY.

STAIRWAYS: ALL STAIRWAYS THROUGHOUT SHALL BE WOOD CONSTRUCTION USING 2"x8" HORSES 12" O.C. WITH WALK AND OUTSIDE STRINGERS OF O.P. WITH MOLD ON TOP AS WILL BE DETAILED. ALL TREADS SHALL BE 1 1/4" O.P. RISERS 7/8" O.P. HOUSED INTO STRINGERS, BLOCKED AND GLED UP IN A WORKMANLIKE MANNER COMPLETE. EAST STAIR TO MEZZANINE SHALL HAVE RISERS NITERED INTO OUT STRAGGLER BLOCKS AS SHOWN ON DETAIL. ALL LANDINGS SHALL HAVE #1 1/4" O.P. T&G FLOORING.

FLOORS: WHERE INDICATED OR SPECIFIED UNLESS OTHERWISE SPECIFIED. SHALL BE #2 1/4" T&G O.P. FLOORING NAILED WITH NAILS 1/4" O.C.

**STRUCTURAL STEEL**

ALL STRUCTURAL STEEL SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF AMERICAN SOCIETY FOR MATERIALS FOR STRUCTURAL STEEL BUILDINGS, SERIAL DESIGNATION A9-21 AS AMENDED TO DATE. THE STRUCTURAL STEEL SHALL CONFORM STRICTLY TO STANDARD SPECIFICATIONS FOR STRUCTURAL STEEL FOR BUILDINGS AS ADOPTED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION. ALL BEAMS RESTING ON CONCRETE SHALL HAVE 3/4"x10" DONNELS OR ANGLE ANCHORS DRILLED THRU THEM.

SHOP DRAWINGS: THE STRUCTURAL STEEL CONTRACTOR SHALL FURNISH COMPLETE SHOP DRAWINGS FOR ARCHITECT'S APPROVAL OR DISAPPROVAL BEFORE FABRICATING IS BEGUN HE SHALL ALSO SUBMIT SETTING PLAN FOR GENERAL CONTRACTOR SHOWING POSITION OF BASE AND DONNELS IN CONCRETE FOOTING.

**STEEL JOISTS**

ALL STEEL JOISTS SHALL BE FURNISHED, SET AND WELDED IN STRICT ACCORDANCE WITH PLANS, SPECIFICATIONS AND DETAILS. ALL STEEL JOISTS RESTING ON STEEL BEAMS SHALL BE WELDED WITH 1"-11" WELD 1/4" BEAD EACH SIDE OF SAID JOIST. ALL STEEL JOISTS RESTING ON CONCRETE SHALL HAVE 1/2"x8" ANCHOR THRU END OF JOISTS. THIS CONTRACTOR SHALL FURNISH AND SET ALL RIB LATH FOR CONCRETE SLAB ON STEEL JOISTS AND SHALL BE 3/4" WEIGHING .56 PER SQ. FT. ALL BRIDGING SHALL BE 4" CHANNELS, RUNNING HORIZONTAL AT TOP AND BOTTOM CHORD AND WELDED TO JOISTS AND STEEL BEAMS WITH 1-1/4" WELD 3/8" BEAD.

**GENERAL**

1. ALL WORKMANSHIP, MATERIAL, AND TESTING SHALL CONFORM TO THE REQUIREMENTS OF THE 2001 CALIFORNIA BUILDING CODE.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS, TO VERIFY CONDITIONS AT THE SITE AND TO CROSSCHECK DETAILS AND DIMENSIONS ON THE STRUCTURAL DRAWINGS WITH RELATED REQUIREMENTS ON THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND ALL OTHER PERTINENT DRAWINGS BEFORE PROCEEDING WITH CONSTRUCTION.
3. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH CONSTRUCTION.
4. DETAILS MARKED TYPICAL SHALL APPLY IN ALL CASES, UNLESS SPECIFICALLY DETAILED OTHERWISE. WHERE NO DETAIL IS SHOWN, CONSTRUCTION SHALL BE AS SHOWN FOR OTHER SIMILAR WORK.
5. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6. THE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, INCLUDING BRACING, SHORING, AND LAYOUT OF CONSTRUCTION MATERIALS, ETC. UNLESS SPECIFICALLY INDICATED OTHERWISE, THE DESIGN AND INSTALLATION OF TEMPORARY SHORING AND BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. UNLESS OTHERWISE STATED IN WRITING, SITE VISITS BY REPRESENTATIVES OF THE STRUCTURAL ENGINEER:
  - A. DO NOT INCLUDE INSPECTION OF PROTECTIVE OR TEMPORARY CONSTRUCTION
  - B. ARE GENERAL IN NATURE AND ARE NOT CONTINUOUS OR DETAILED
  - C. DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE
  - D. SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.
8. DIMENSIONS SHALL GOVERN OVER SCALES SHOWN ON DRAWINGS, IN PART ON THE ORIGINAL DRAWINGS AND MAY NOT BE ACCURATE. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND NOTIFY THE ARCHITECT IF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.
10. ALL WORK SHALL UNDERGO OBSERVATION OF A FULL-TIME RESIDENT INSPECTION HIRED BY THE OWNER.

**DESIGN CRITERIA**

- DESIGN LIVE LOAD**
1. FLOOR AND MEZZANINE LIVE LOAD = 100 PSF
  2. ROOF LIVE LOAD = 20 PSF
  3. READING ROOM = 60 PSF
  4. MEZZANINE OFFICES = 80 PSF
- SEISMIC DESIGN DATA**
1. CODE: 2007 CBC, CHAPTER 34 (ASCE STANDARD 41-06, 3.3 LINEAR STATIC PROCEDURE)
  2. IMPORTANCE FACTOR I<sub>s</sub> = 1.25, OCCUPANCY CATEGORY = III
  3. MAPPED ACCELERATION PARAMETERS:
    - 0.2 SEC. S<sub>0</sub> = 0.192
    - 0.1 SEC. S<sub>0</sub> = 0.193
  4. LATERAL FORCE V<sub>r</sub> = C<sub>v</sub> C<sub>a</sub> C<sub>s</sub> C<sub>w</sub> S<sub>w</sub> W = 0.2168 W
  5. SITE CLASS = D (ASSUMED)
  6. SEISMIC DESIGN CATEGORY = D
  7. DESIGN SHAKE: SEE EXISTING EPILEPSY AND NOTIFY THE ARCHITECT REINFORCED CONCRETE SHEAR WALLS
- WIND DESIGN DATA**
1. BASIC WIND SPEED (3 SEC. GUST) @ 85MPH
  2. IMPORTANCE FACTOR I<sub>w</sub> = 1.15, OCCUPANCY CATEGORY = III
  3. EXPOSURE C

**TESTING AND INSPECTION**

THE FOLLOWING TESTS AND INSPECTIONS SHALL BE REQUIRED AS DESCRIBED IN THE CALIFORNIA BUILDING CODE:

1. REINFORCING STEEL
  - A. SAMPLE AND TEST BAR STEEL FOR #5 AND LARGER BARS.
2. STRUCTURAL STEEL
  - A. SAMPLE AND TEST ALL UNIDENTIFIED STEEL.
  - B. INSPECT ALL FIELD AND SHOD WELDING.
3. CONCRETE
  - A. TEST AGGREGATE FOR MIX DESIGN ONLY.
  - B. PROVIDE MIX DESIGN (SEE "CONCRETE MIX DESIGNS" NOTES BELOW).
  - C. CONTINUOUS BATCH PLANT INSPECTION.
  - D. INSPECT FLACING.
  - E. COMPRESSION TESTS.
  - F. SAMPLE AND TEST CEMENT - GRAB SAMPLE.
4. EXPANSION BOLTS AND ADHESIVE ANCHORS (SEE TESTING NOTES).
5. ACCESS FLOOR (SEE TESTING NOTES).
6. EIFS

**CONCRETE**

1. CONCRETE SHALL BE AS FOLLOWS:

LOCATION	IN COMPRESSIVE STRENGTH (PSI)	CEMENT TYPE	AGGREGATE TYPE	MAXIMUM SIZE AGGREGATE (IN)	MAXIMUM SLUMP (IN)	MAXIMUM WATER-CEMENT RATIO (W/C)
HALL OPENING INTILL	3,000	II	HARDROCK	3/4"	5"	0.45
SLABS ON LIGHT WT.	3,000	II	HARDROCK	3/4"	5 1/2"	0.50

2. UNLESS NOTED OTHER WISE ALL CONCRETE SHALL HAVE NORMAL WEIGHT AGGREGATE CONCRETE CONFORMING TO ASTM C-33. LIGHTWEIGHT CONCRETE SHALL HAVE AGGREGATE CONFORMING TO ASTM C-330
3. CEMENT SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C-150 AND SHALL BE TESTED
4. ALL REINFORCING BARS, DONNELS, ANCHOR BOLTS AND OTHER INSERTS SHALL BE SECURED IN POSITION BEFORE PLACING OF CONCRETE.
5. NO PIPES OR DUCTS SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. SEE MECHANICAL AND/OR ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES THROUGH WALLS AND FLOORS.
6. REFER TO ARCHITECTURAL DRAWINGS FOR ALL MOUNDS, GROOVES, CLIPS, ORNAMENTS, GROUNDS AND OTHER INSERTS TO BE CAST IN CONCRETE.
7. CONTINUOUS INSPECTION IS REQUIRED DURING PLACING OF CONCRETE.
8. THE GRAB MIXES ARE NOT REQUIRED EXCEPT WHERE SPECIFICALLY APPROVED DUE TO REBAR CONGESTION.

**CONCRETE MIX DESIGNS**

1. MIX DESIGNS SHALL BE SUBMITTED TO THE ARCHITECT TWO WEEKS PRIOR TO ANY POUR FOR THE DESIGN
2. ALL MIX DESIGNS SHALL BE SIGNED BY A CALIFORNIA REGISTERED CIVIL ENGINEER.
3. MIX DESIGNS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
  - A. PROJECT NUMBER
  - B. MIX DESIGN NUMBER
  - C. LOCATION WHERE EACH DESIGN IS TO BE USED
  - D. STRENGTH
  - E. MAXIMUM SLUMP
  - F. CEMENT TYPE
  - G. AGGREGATE GRADATION
  - H. MAXIMUM SIZE OF COARSE AGGREGATE
  - I. MATERIAL PROPORTIONS
  - J. ADMIXTURES
4. SUBMIT MANUFACTURER'S INFORMATION FOR ALL ADMIXTURES.

**REINFORCING STEEL**

1. ALL REINFORCING STEEL BE PLACED AND SUPPORTED IN CONFORMANCE WITH THE MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION, LATEST EDITION, PUBLISHED BY C.R.S.I.
2. ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A-618 GRADE 60.
3. ALL REINFORCING STEEL TO BE WELDED SHALL BE DEFORMED BARS WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.
4. TIE WIRE SHALL BE 16 GAUGE, FULLY ANNEALED, CONFORMING TO ASTM A-92
6. ALL REINFORCING STEEL SHALL HAVE THE FOLLOWING MINIMUM CONCRETE COVERAGE, UNLESS NOTED OTHERWISE:
  - A. CONCRETE PLACED AGAINST EARTH = 3"
  - B. CONCRETE WITH FORMED SURFACES IN CONTACT WITH EARTH = 2"
  - C. CONCRETE EXPOSED TO WEATHER = 2"
  - D. SLABS AND WALLS NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH (#11 BARS AND SMALLER) = 1"
7. CONTINUOUS REINFORCING STEEL IN CONCRETE MUST BE SPLICED WITH A MINIMUM LAP ACCORDING TO THE TABLES BELOW, U.N.C.O. 1
 

BAR SIZE	TOP BARS	OTHER BARS
#3	20"	22"
#4	37"	24"
#5	47"	36"
#6	54"	43"
#7	61"	63"
#8	63"	72"
#9	105"	87"

NOTES:  
1. TOP BARS ARE WOUND BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.  
2. OTHER BARS ARE ALL EXCEPT TOP BARS.

8. ALL HORIZONTAL REINFORCING STEEL IN CONCRETE OR MASONRY WALLS SHALL BE CONTINUOUS AROUND CORNERS IN EACH DIRECTION FOR 30 BAR DIAMETERS OR 1-1/4" MINIMUM IN CONCRETE AND 48 BAR DIAMETERS OR 2'-0" MINIMUM IN MASONRY.
9. WELDED WIRE FABRIC SHALL BE SPLICED WITH A MINIMUM LAP OF 12".
10. STAGGER REBAR SPLICES A MINIMUM OF TWICE THE LAP LENGTH FOR HORIZONTAL REINFORCING.
11. DOWELS SHALL BE PROVIDED AT ALL FOUR JOINTS AND SHALL BE THE SAME SIZE AND SPACING AS REINFORCING DIRECTLY BEYOND FOUR JOINTS.
12. ANY WELDING OF REINFORCING STEEL REQUIRES E-70XX LOW HYDROGEN MOISTURE RESISTING ELECTRODES, CONTINUOUS WELDING INSPECTION BY LICENSED DEPUTY INSPECTOR AND PRE-QUALIFICATION OF WELDERS.

**STRUCTURAL STEEL**

1. STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE FABRICATED IN ACCORDANCE WITH THE LATEST A.I.S.I. SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.
2. STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:
  - A. CHANNELS AND ANGLES: A36
  - B. PLATES: A36
  - C. STEEL TUBES: A500, GRADE B (Fy=46KSI)
  - D. STEEL PIPES: A53, GRADE B
  - E. CHANNELS AND ANGLES: A36
3. BOLTS SHALL CONFORM TO ASTM A-307 UNLESS NOTED OTHERWISE.
4. BOLTS SPECIFIED AS ASTM A325N SHALL BE IN COMPLIANCE WITH THE FOLLOWING:
  - A. THE APPLICABLE SECTIONS OF THE AISC SPECIFICATIONS FOR "STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS"
  - B. ALL BOLTS SHALL BE TIGHTENED TO SNUG TIGHT CONDITION.
  - C. A DEPUTY INSPECTOR SHALL VERIFY THAT THE PILES OF THE CONNECTING ELEMENTS HAVE BEEN BROUGHT INTO SNAUG CONTACT. HOWEVER, INSPECTION PRIOR TO OR DURING INSTALLATION IS NOT REQUIRED.
5. SHOP DRAWINGS FOR STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE REVIEWED PRIOR TO FABRICATION.
6. ALL WELDING SHALL CONFORM TO A.W.S. A51 AND A.W.S. D11 OF THE STRUCTURAL WELDING CODE.
7. ALL WELDING SHALL BE DONE BY AWS CERTIFIED OPERATORS QUALIFIED BY AN INSPECTOR APPROVED BY D.S.A. FOR THE TYPE OF OPERATION INVOLVED.
8. E-70XX ELECTRODES SHALL BE USED.
9. SPECIAL INSPECTION IS REQUIRED FOR ALL FIELD WELDING BY A DEPUTY WELDING INSPECTOR.
10. STRUCTURAL STEEL ADJACENT TO SOIL SHALL HAVE 4" MINIMUM CONCRETE COVERAGE.
11. ALL COMPLETE PENETRATION GROOVE WELDS AND PARTIAL PENETRATION GROOVE WELDS THICKER THAN 1/4" SHALL BE TESTED BY ULTRASONIC TESTING.
12. TYPE OF WELD (SHOP OR FIELD) SHALL BE DETERMINED BY CONTRACTOR.
13. MINIMUM SIZE OF FILLET WELDS SHALL BE IN ACCORDANCE WITH AISC WHERE SMALLER WELDS ARE INDICATED OR WHERE NO SIZE IS INDICATED.

**TESTING NOTES FOR EXPANSION ANCHORS, ADHESIVE ANCHORS AND UNDERFLOOR PEDESTALS**

1. ALL DRILLED-IN EXPANSION OR ADHESIVE ANCHORS SHALL BE TESTED AS FOLLOWS:
  - A. SHALL PLACES = 10%
  - B. STRUCTURAL USES = 100%
  - C. NON-STRUCTURAL USES, EQUIPMENT ANCHORAGE = 50%
2. TESTING SHALL CONSIST OF A TENSION OR TORQUE TEST.
3. TESTING SHALL BE DONE BY THE TESTING LAB.
4. APPLY PROOF TEST LOADS TO WEDGE ANCHORS WITHOUT REMOVING THE NUT. IF POSSIBLE, IF NOT, REMOVE NUT AND INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS OF THE ORIGINAL NUT USING A TORQUE WRENCH AND APPLY LOAD.
5. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE TEST FIXTURES.
6. TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.
7. THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:
  - A. HYDRAULIC RAM METHOD: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD. A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WADHER UNDER THE NUT BECOMES LOOSE.
  - B. TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN ONE-HALF (1/2) TURN OF THE NUT TYPICAL.
8. TESTING SHOULD OCCUR 24 HOURS MINIMUM AFTER INSTALLATION OF THE SUBJECT ANCHORS.
9. UNDERFLOOR PEDESTALS SHALL BE ADHERED TO CLEAN, FIRM CONCRETE. 50% OF THE PEDESTALS SHALL BE TESTED BY APPLYING A HORIZONTAL LOAD OF 100% OF THE TOP OF THE PEDESTAL, APPLY LOAD IN EACH OF 2 PERPENDICULAR DIRECTIONS.

**ADHESIVE ANCHORS**

1. ALL ADHESIVE ANCHORS SHALL CONSIST OF "HIT HY-160" ADHESIVE MANUFACTURED BY HILTI, INC. ANCHORS SHALL BE INSTALLED AT EMBEDMENT DEPTHS AND TESTED AS SHOWN IN THE CHARTS BELOW, UNLESS DETAILED OTHERWISE.

ASTM A36 THREADED RODS IN NORMAL WEIGHT CONCRETE

ROD DIAMETER (IN)	DRILL BIT DIAMETER (IN)	EMBEDMENT (IN)	60% I.C.C. E.R. TENSION VALUE (LB)	80% I.C.B.O. E.R. SHEAR VALUE (LB)	TENSION TEST VALUE (LB)
3/8"	3/4"	3	1421	872	2842
1/2"	5/8"	4	2326	1546	4656
5/8"	3/4"	5	3616	2420	7232
3/4"	3/4"	6	4955	3484	9110
7/8"	3/4"	7	6501	4744	13022
1"	1 1/8"	8	7223	6196	14446
1 1/4"	1 1/2"	10	10521	9680	21042

GRADE 60 REINFORCING STEEL IN NORMAL WEIGHT CONCRETE

REBAR SIZE	DRILL BIT DIAMETER (IN)	EMBEDMENT (IN)	60% I.C.C. E.R. TENSION VALUE (LB)	80% I.C.B.O. E.R. SHEAR VALUE (LB)	TENSION TEST VALUE (LB)
3	3/8"	3	1291	1070	2582
4	1/2"	4	2530	2092	5060
5	3/4"	5	3330	3300	6660
6	7/8"	6	4778	4281	9558
7	1"	7	5617	6168	12334
8	1 1/8"	8	8086	6700	16172

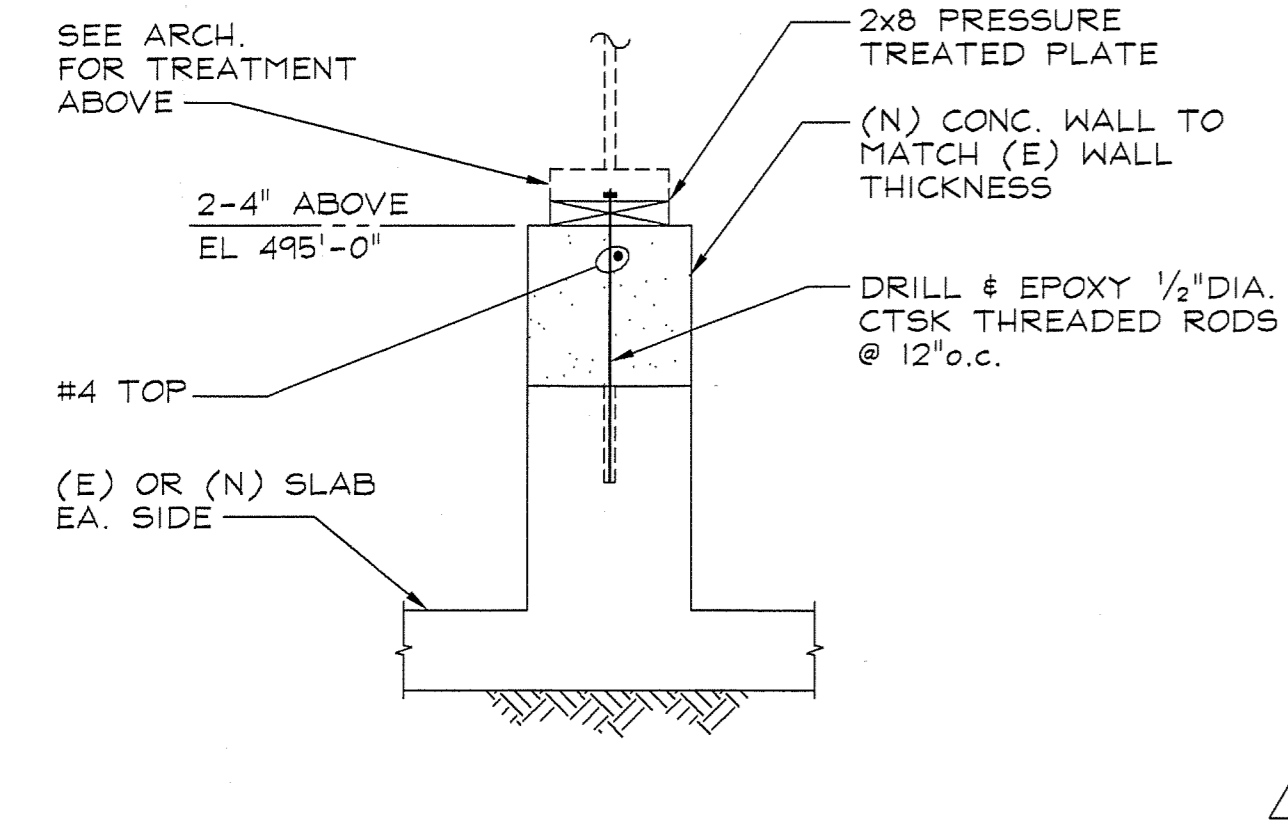
2. THE TENSION AND SHEAR VALUES IN CONCRETE TABLES ARE FOR ANCHORS INSTALLED IN CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT THE TIME OF INSTALLATION.
3. TABULATED ALLOWABLE LOADS ARE FOR NORMAL LOAD DURATION. VALUES MAY BE INCREASED BY ONE THIRD FOR SHORT-TERM LOADING DUE TO WIND OR SEISMIC FORCES.
4. TABULATED ALLOWABLE LOADS ARE BASED ON CRITICAL EDGE DISTANCE AND SPACING AS SHOWN IN ICB0 #618.
5. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH I.C.B.O. EVALUATION REPORT NO. 6189.
6. COMPLY WITH ALL MANUFACTURER'S RECOMMENDATIONS.
7. CONTINUOUS INSPECTION IS REQUIRED FOR ANCHOR INSTALLATION.

**EXPANSION ANCHORS**

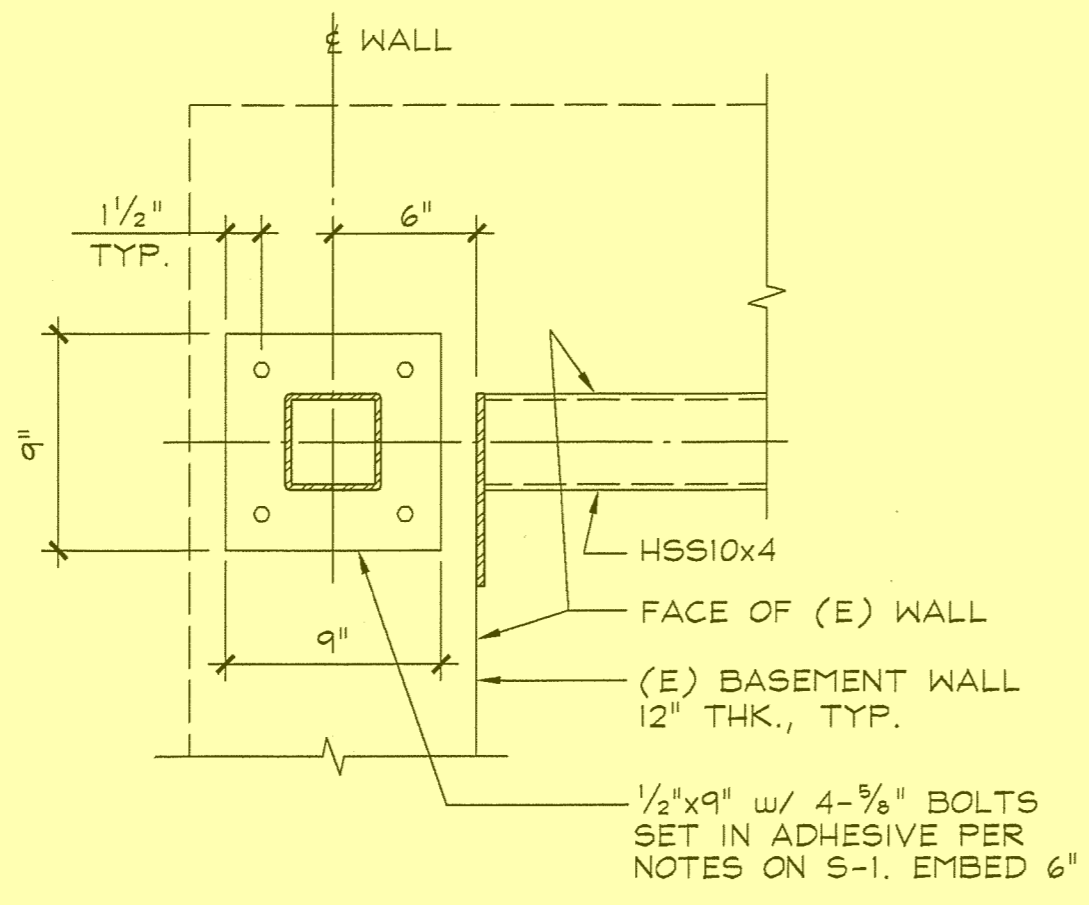
1. ALL EXPANSION ANCHORS SHALL BE CARBON STEEL WEDGE-ALL OR KNIP BOLT-III ANCHORS MANUFACTURED BY SIMPSON OR HILTI, INC. ANCHORS SHALL BE INSTALLED AT EMBEDMENT DEPTHS AND TESTED AS SHOWN IN THE CHART BELOW, UNLESS DETAILED OTHERWISE.

EXPANSION ANCHORS IN NORMAL WEIGHT CONCRETE

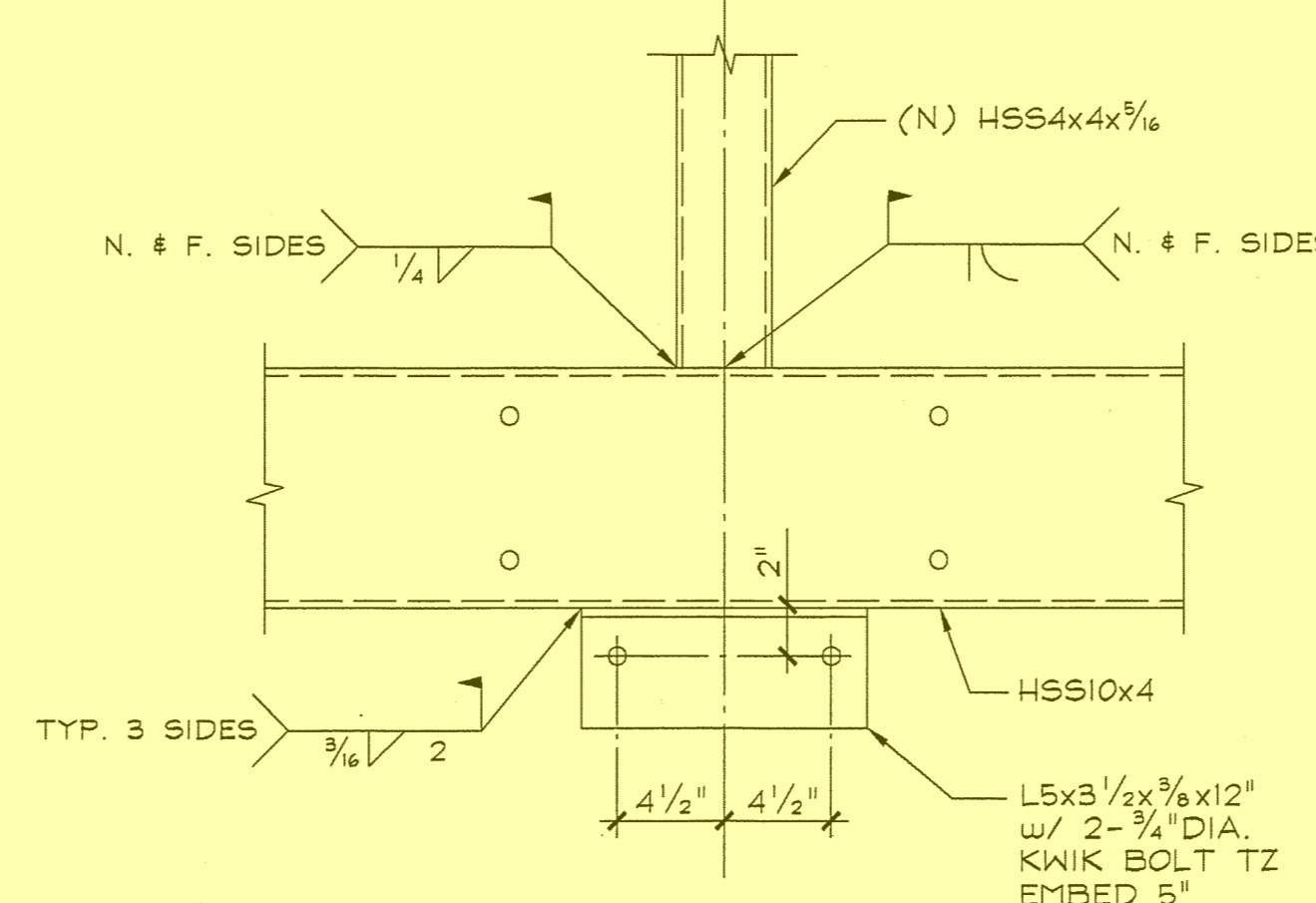
ANCHOR DIAMETER (IN)	DRILL BIT DIAMETER (IN)	EMBEDMENT (IN)	60% I.C.C. E.R. TENSION VALUE (LB)	80% I.C.C. E.R. TENSION VALUE (LB)	TENSION TEST VALUE (LB)
1/4"	1/4"	2	535 / 365	359 / 185	1070 / 730
3/8"	3/8"	3	1194 / 900	1004 / 845	2388 / 1800
1/2"	1/2"	4	1684 / 1750	1488 / 1480	33



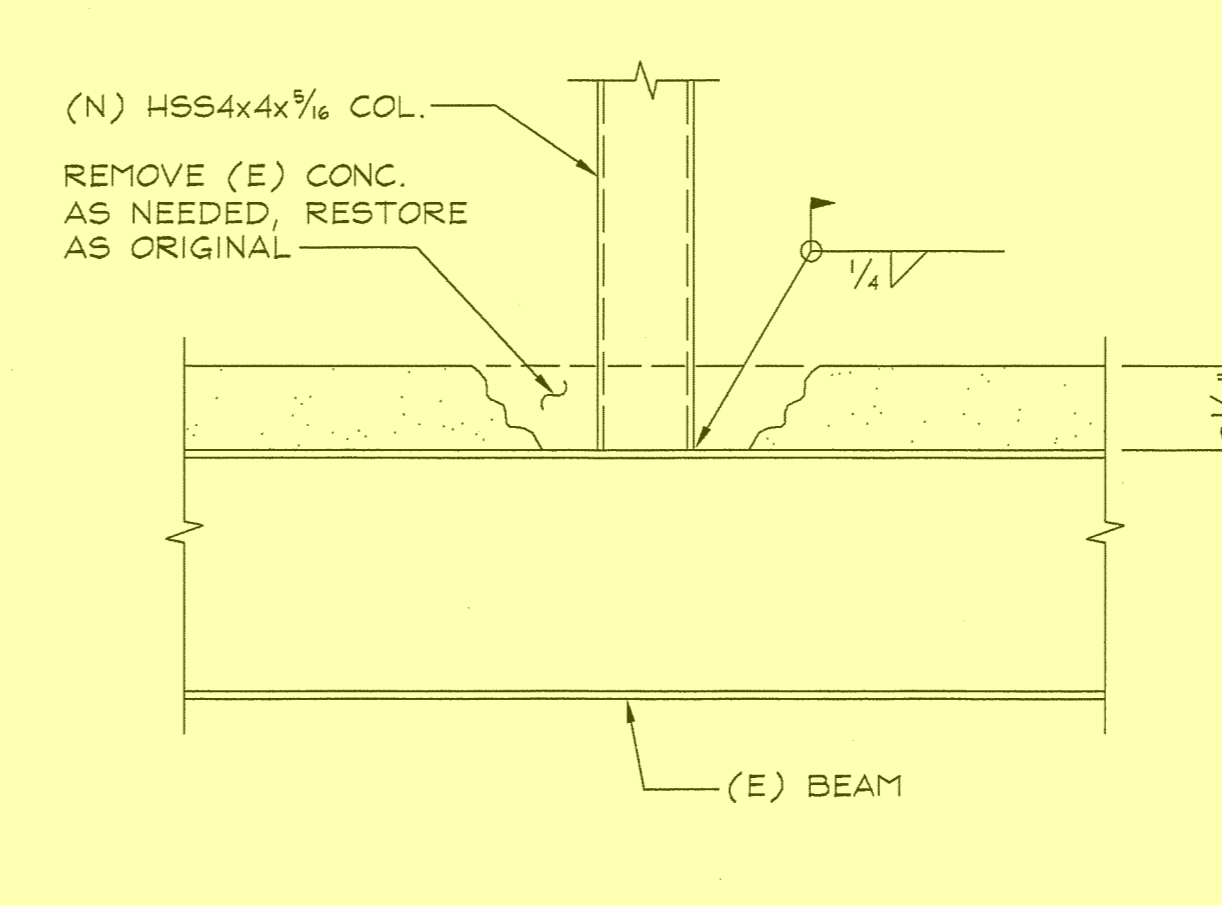
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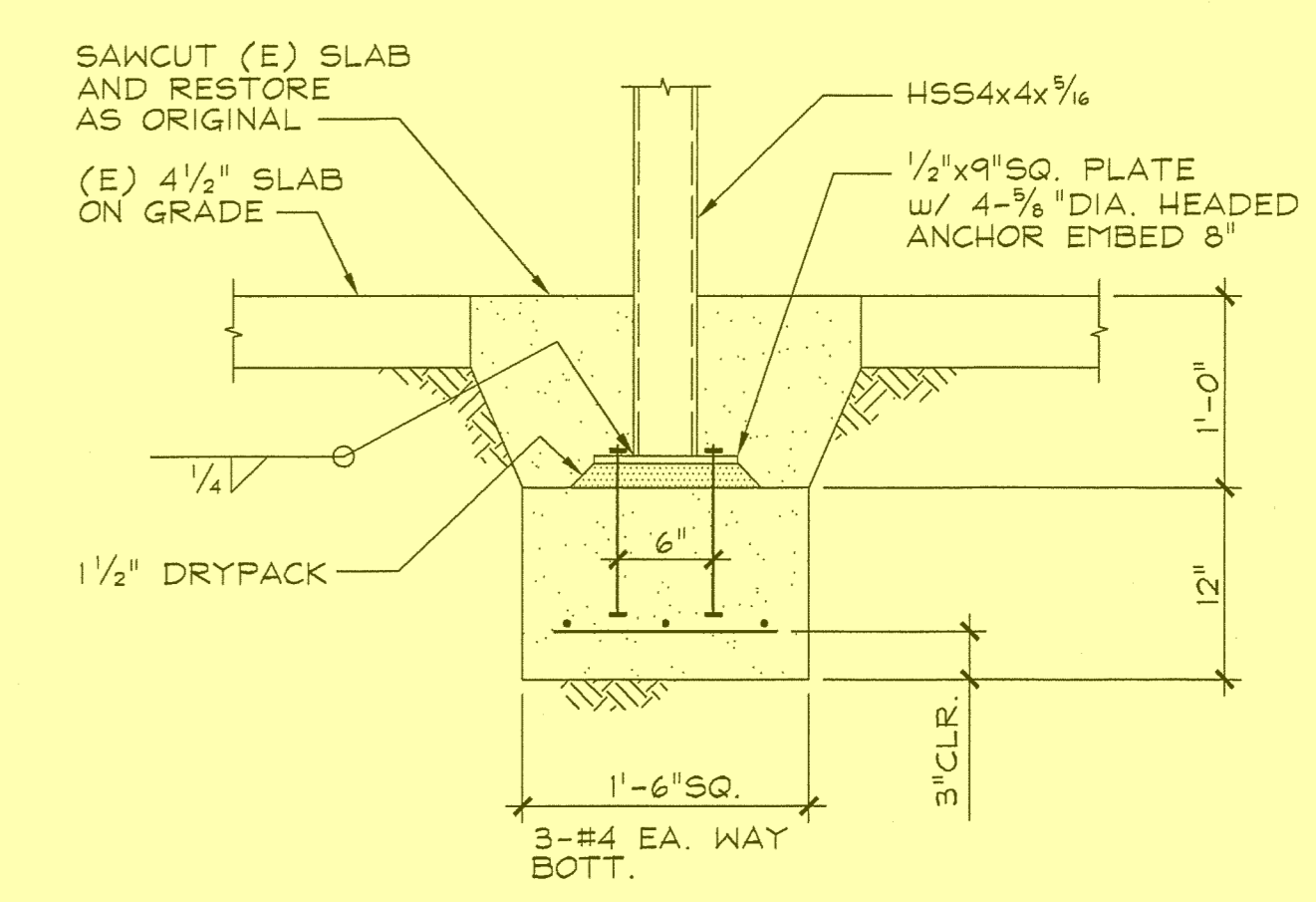
PLAN DETAIL 7



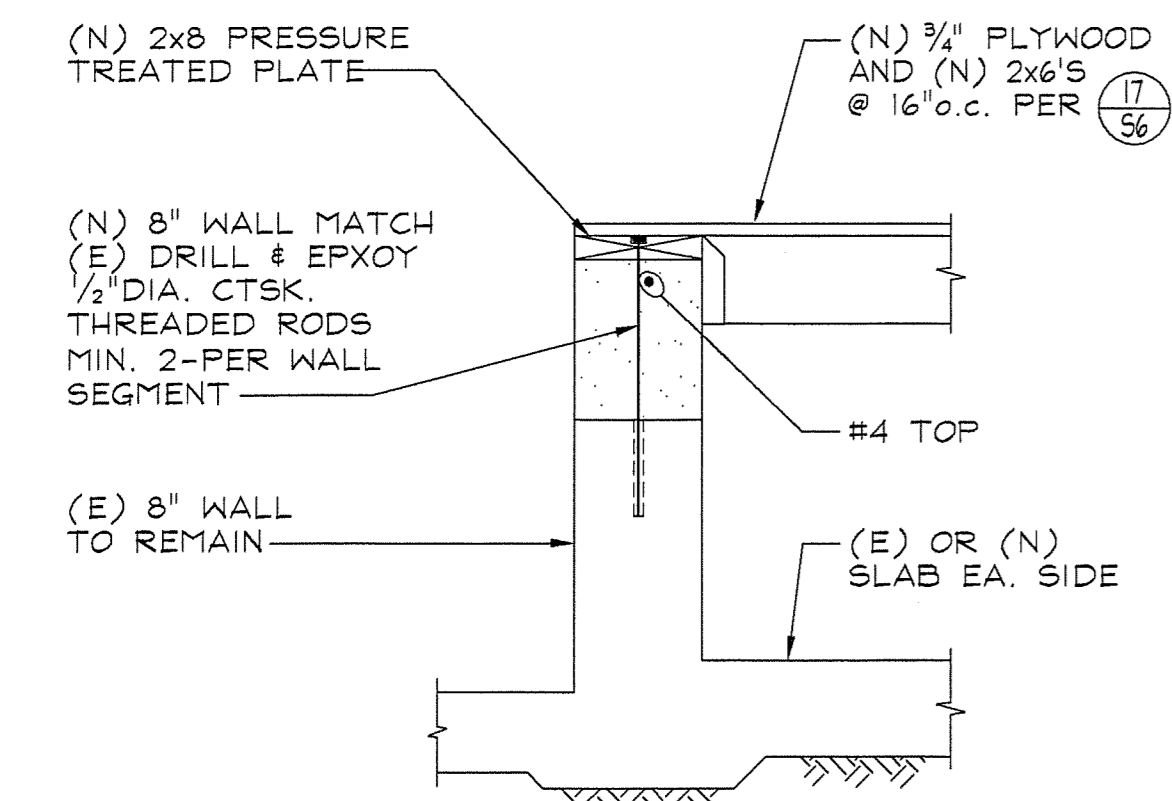
DETAIL 8



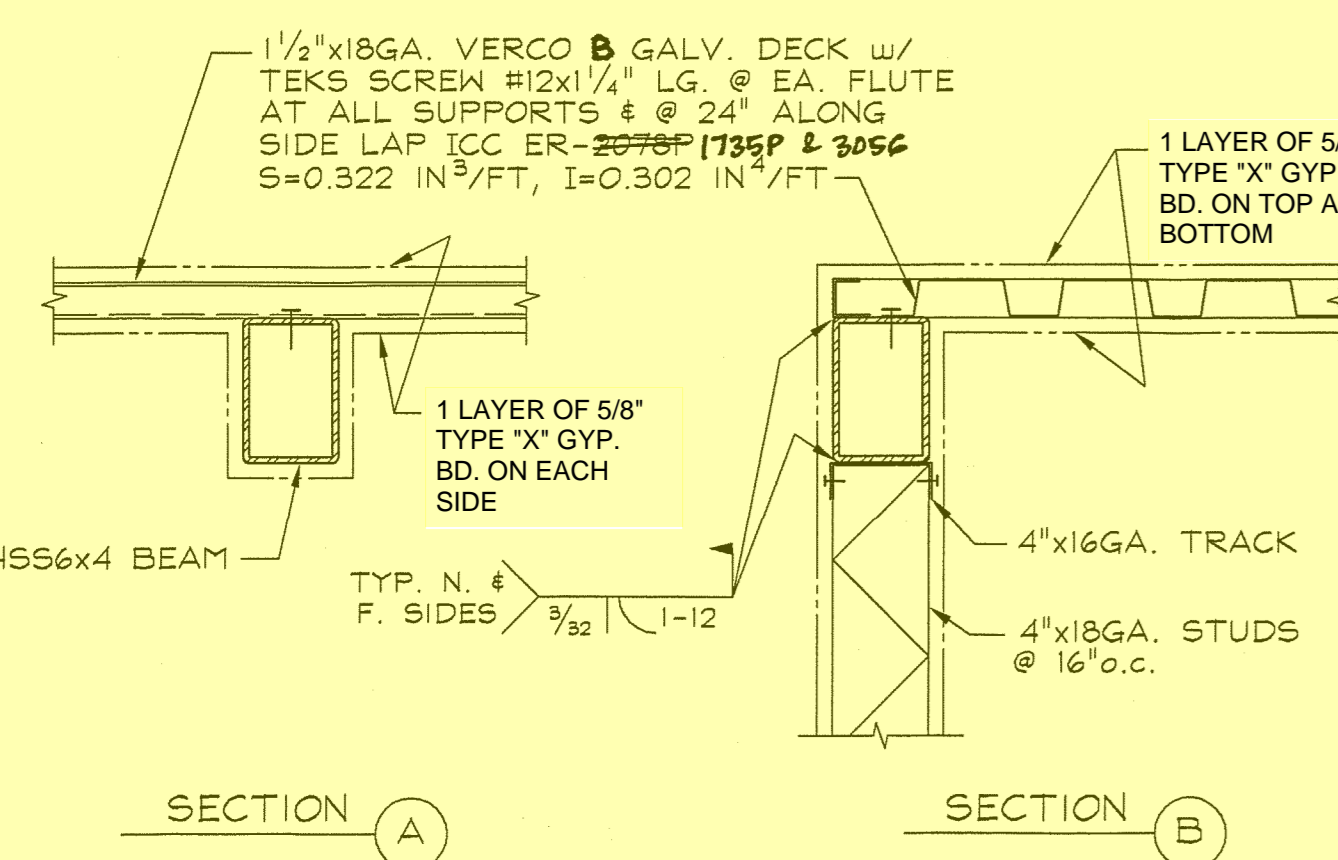
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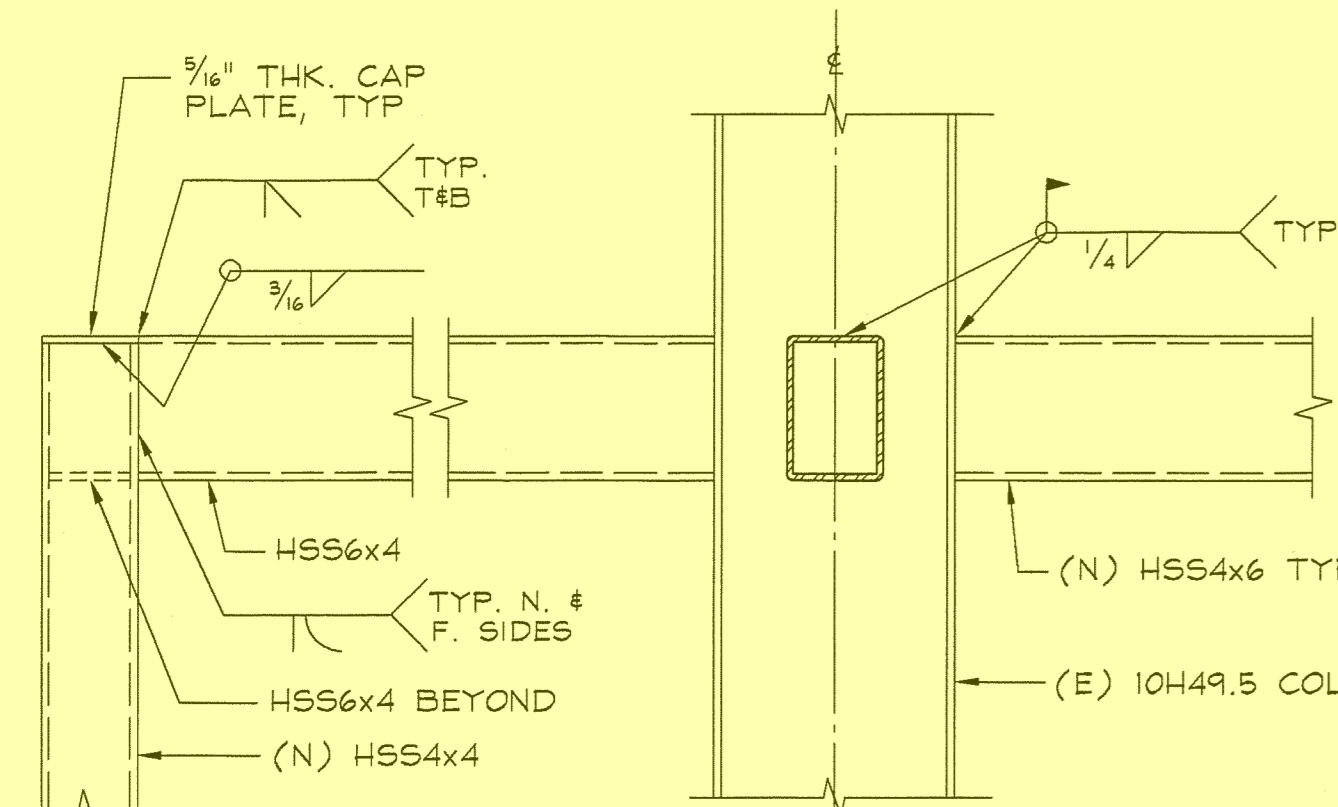
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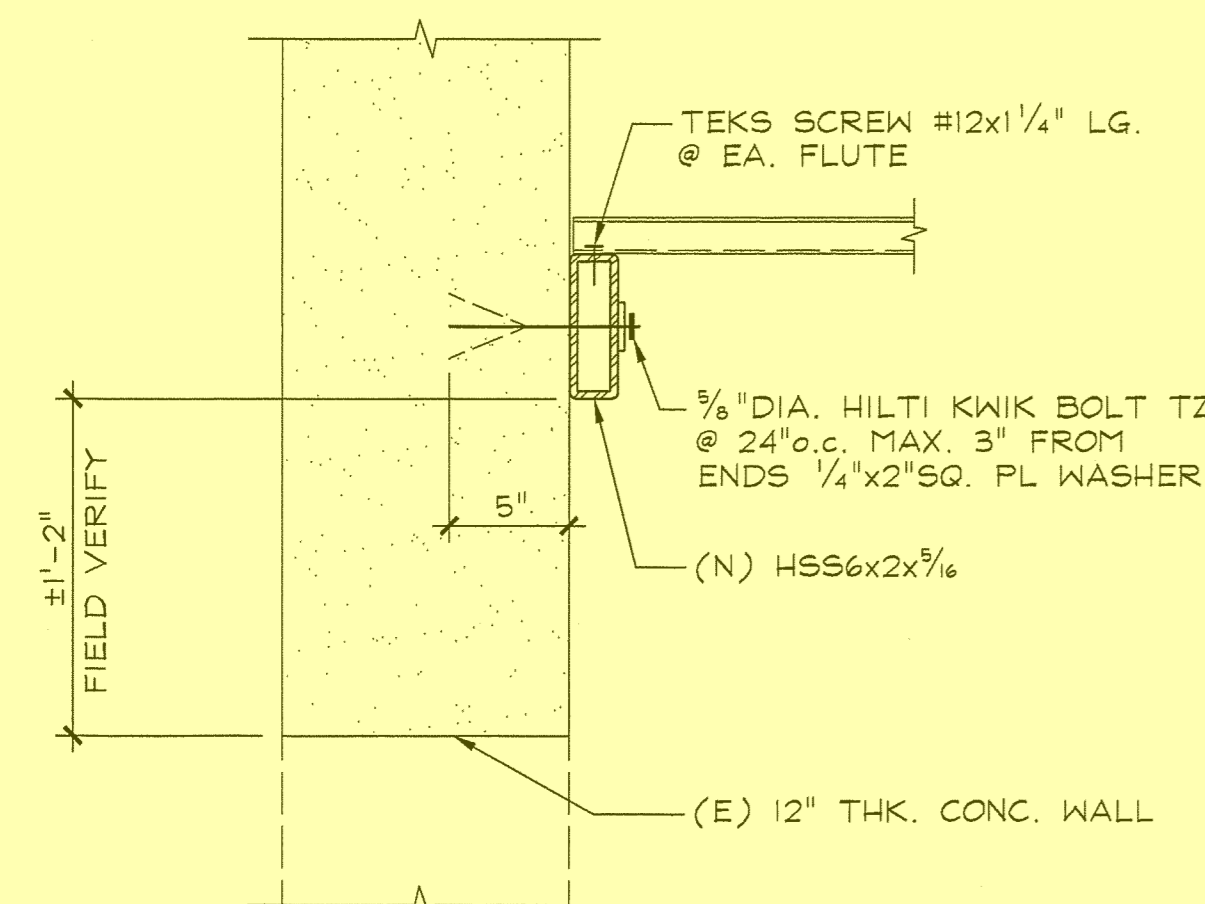
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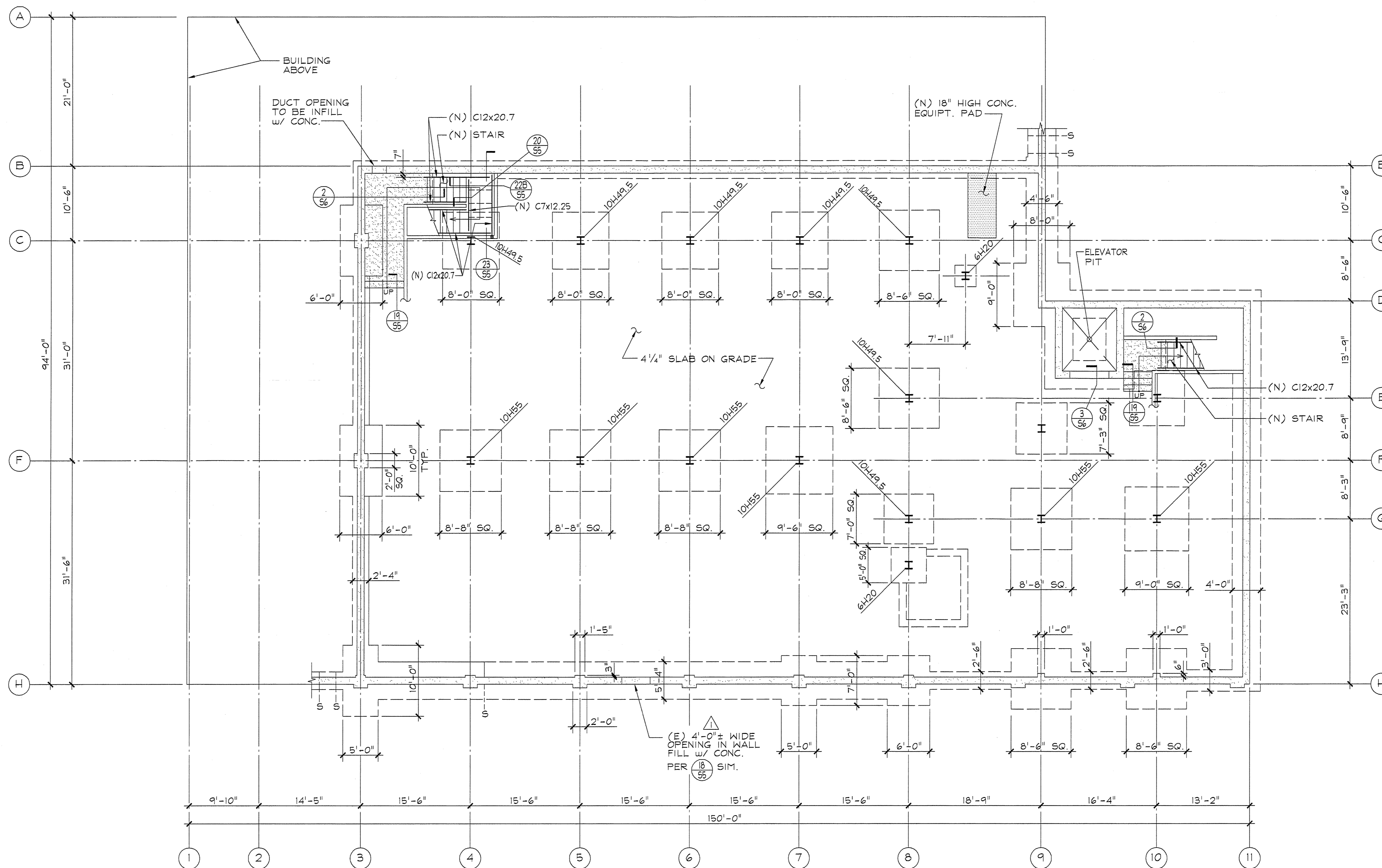
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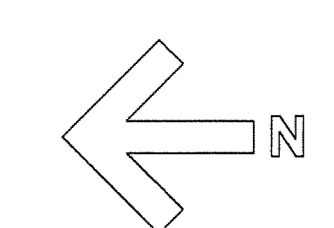
SECTION 5



SECTION 6



- NOTES:
- ALL PAD FOOTING ARE REINF. w/ 1/2" DIA @ 6" o.c. EACH WAY AT BOTTOM. FOOTING THICKNESS: 30" TYP., 24" AT GRID (E), (G), (I), 20" ON GRID I.
  - ALL ELEMENTS ARE EXISTING (E) UNLESS INDICATED AS NEW (N).



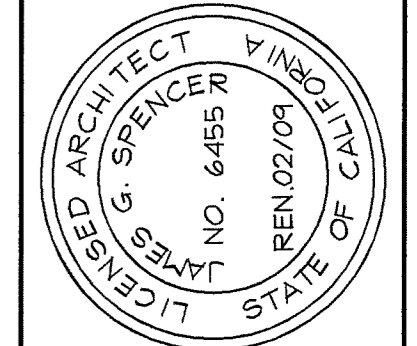
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**GROSSMAN & SPEER ASSOCIATES, INC.**  
STRUCTURAL ENGINEERS  
1405150  
09-29-10  
12-04-07

NO.	DATE	REVISIONS

**SPENCER / HOSKINS associates**  
2245 North Lake Avenue  
Alhambra, (626) 398-3575  
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E-mail: Mail@spencerhoskins.com

**SPENCER / HOSKINS Architecture & Planning**  
James G. Spencer, AIA Architect C-6655  
Stephen R. Hoskins, AIA Architect C-7723

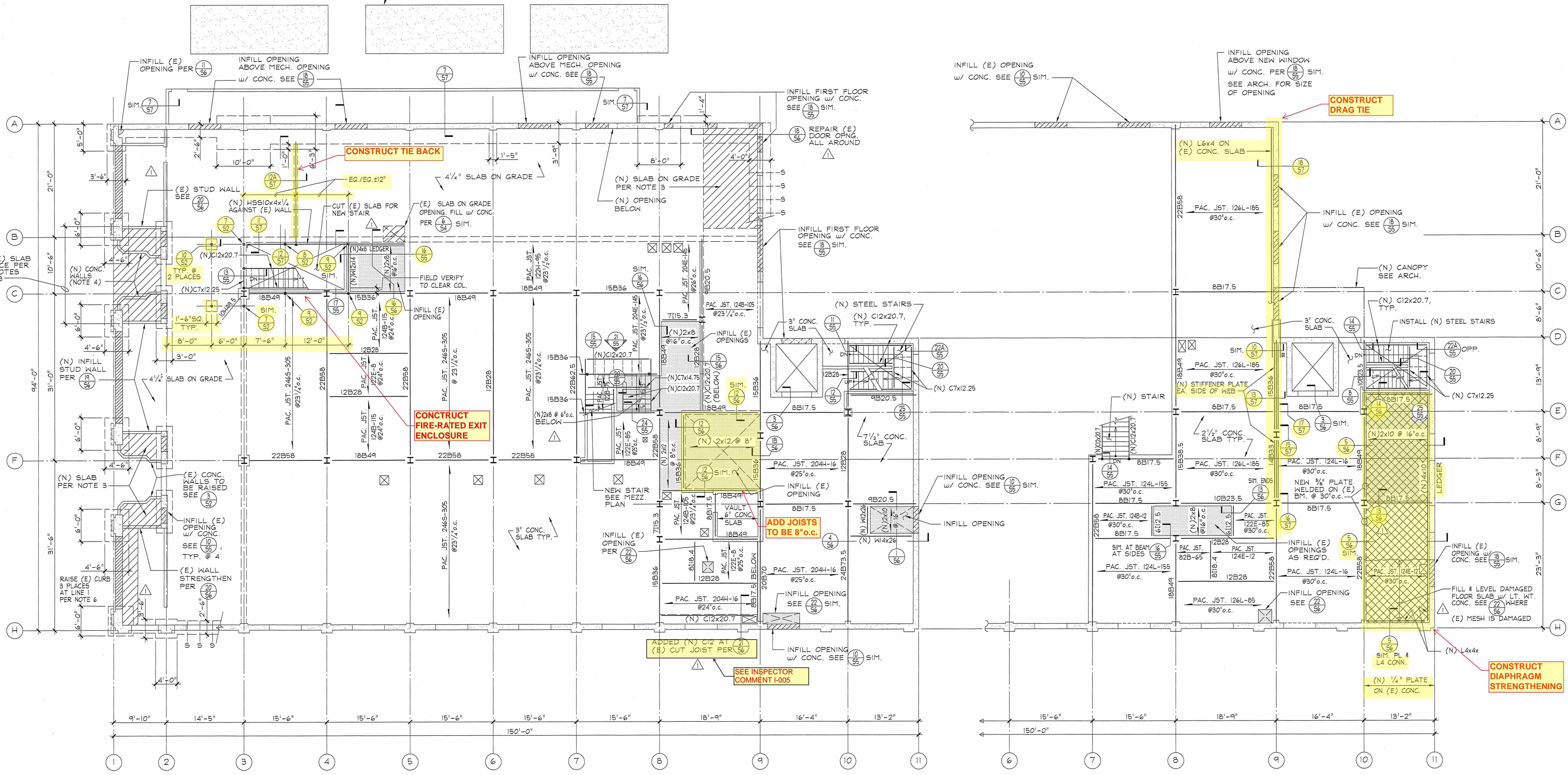
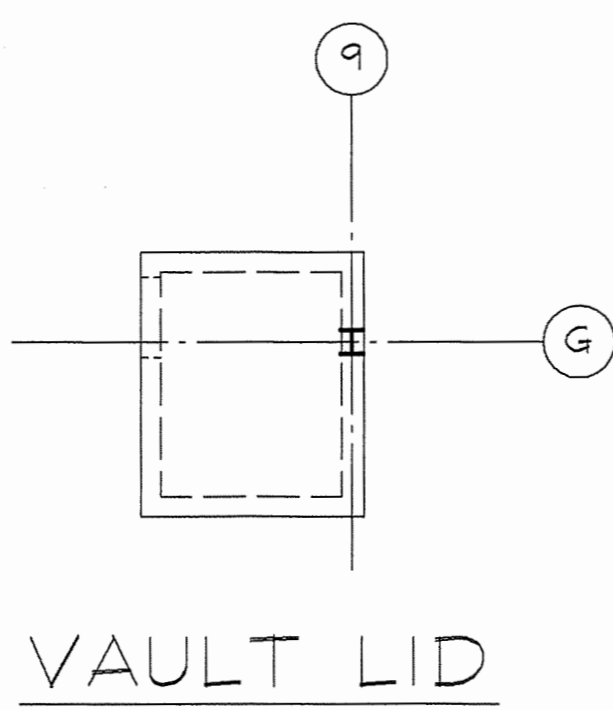
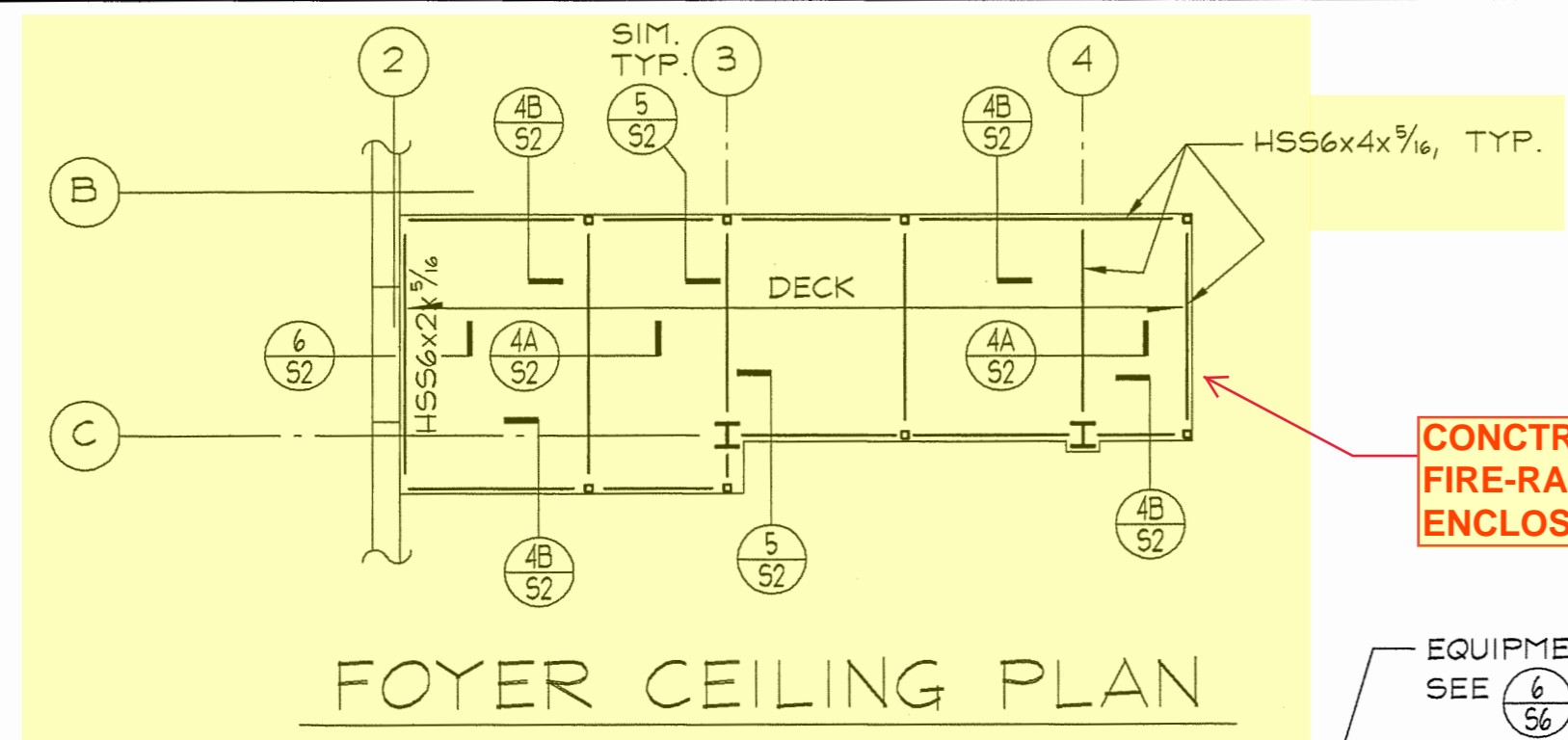


**CLAYPOOL BUILDING RECONSTRUCTION  
PALO VERDE COLLEGE, NEEDLES CENTER**  
PALO VERDE COMMUNITY COLLEGE DISTRICT  
725 BROADWAY, NEEDLES, CALIFORNIA 92363

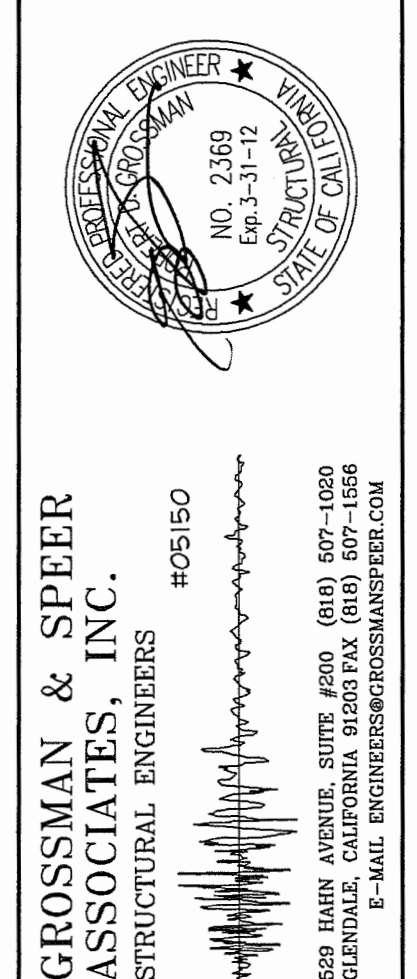
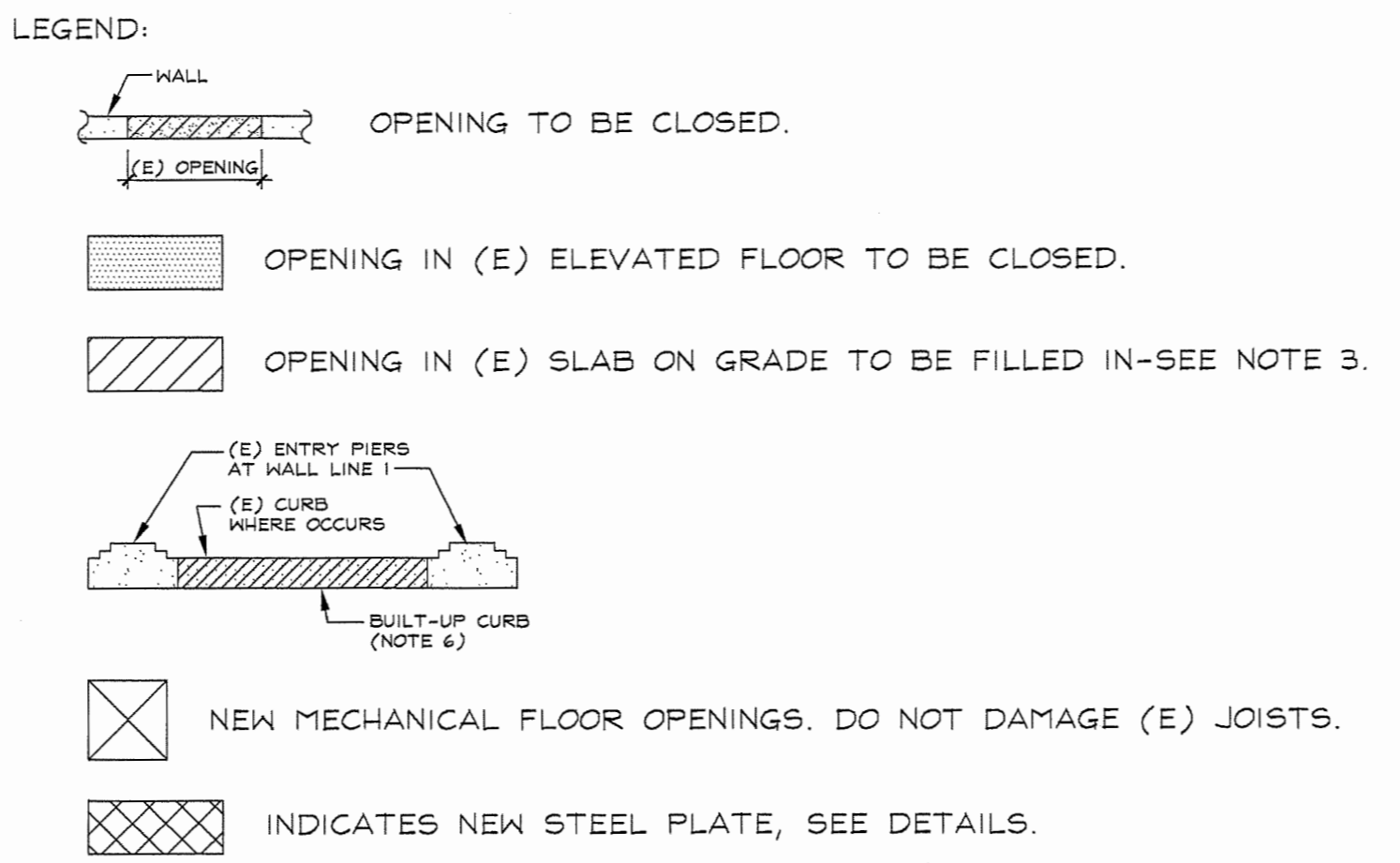
DATE: 07/06/07  
JOB NO.: 05064.00  
DRAWN: GC  
CHECKED: RC

IDENTIFICATION STAMP  
DR. OF THE STATE ARCHITECT  
PROJECT NO. 05064.00  
110562  
DATE: APR 07 2011

SHEET NO. **S-2**



- NOTES:
- STRUCTURAL BEAMS PARALLEL TO STEEL JOISTS ARE FRAMED FLUSH WITH TOP OF STEEL JOISTS. STRUCTURAL BEAMS UPON WHICH STEEL JOISTS BEAR ARE FRAMED A DISTANCE BELOW TOP OF STEEL JOISTS, (TYPICALLY 2 1/2", OR -2 1/4").
  - ALL ELEMENTS ARE EXISTING (E) UNLESS INDICATED AS NEW (N).
  - (NEW) CONC. SLAB ON GRADE WHERE NONE OCCURS OR WHERE DAMAGED OR REBUILT PER ARCH. SHALL BE 5" SLAB OVER COMPACTED FILL w/ #4 @ 24" o.c. EA. WAY IN CENTER.
  - (NEW) 8" CONC. WALL TWO PLACES TO MATCH (E) CONC. WALL AT ENTRY PER (17).
  - AT VARIOUS SMALL (E) OPENINGS TO BE CLOSED, AND/OR WHERE (E) METAL LATH SHOWS RUSTING REMOVE (E) CONC. AND REPAIR PER (56) OR (LARGE OPENINGS) OR (77) (SMALL OPENINGS).
  - (E) 10"x16" HIGH CURBS 3 PLACES LINE 1 EXTEND VERTICALLY PER (17) AS REQ'D. SEE ARCH.



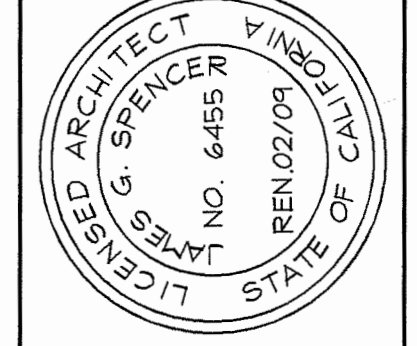
GROSSMAN & SPEDER ASSOCIATES, INC.  
STRUCTURAL ENGINEERS #05150

NO.	DATE	REVISIONS

**SPENCER / HOSKINS associates**  
Architecture & Planning

2245 North Hollywood Avenue  
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James G. Spencer, AIA Architect C-6455  
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**CLAYPOOL BUILDING RECONSTRUCTION**  
PALO VERDE COLLEGE, NEEDLES CENTER

PALO VERDE COMMUNITY COLLEGE DISTRICT  
725 BROADWAY, NEEDLES, CALIFORNIA 92363

**FIRST AND MEZZANINE FLOOR FRAMING PLANS**

DATE	07/06/07
TOR NO.	05084.00
DRAWN	GG
CHECKED	RG

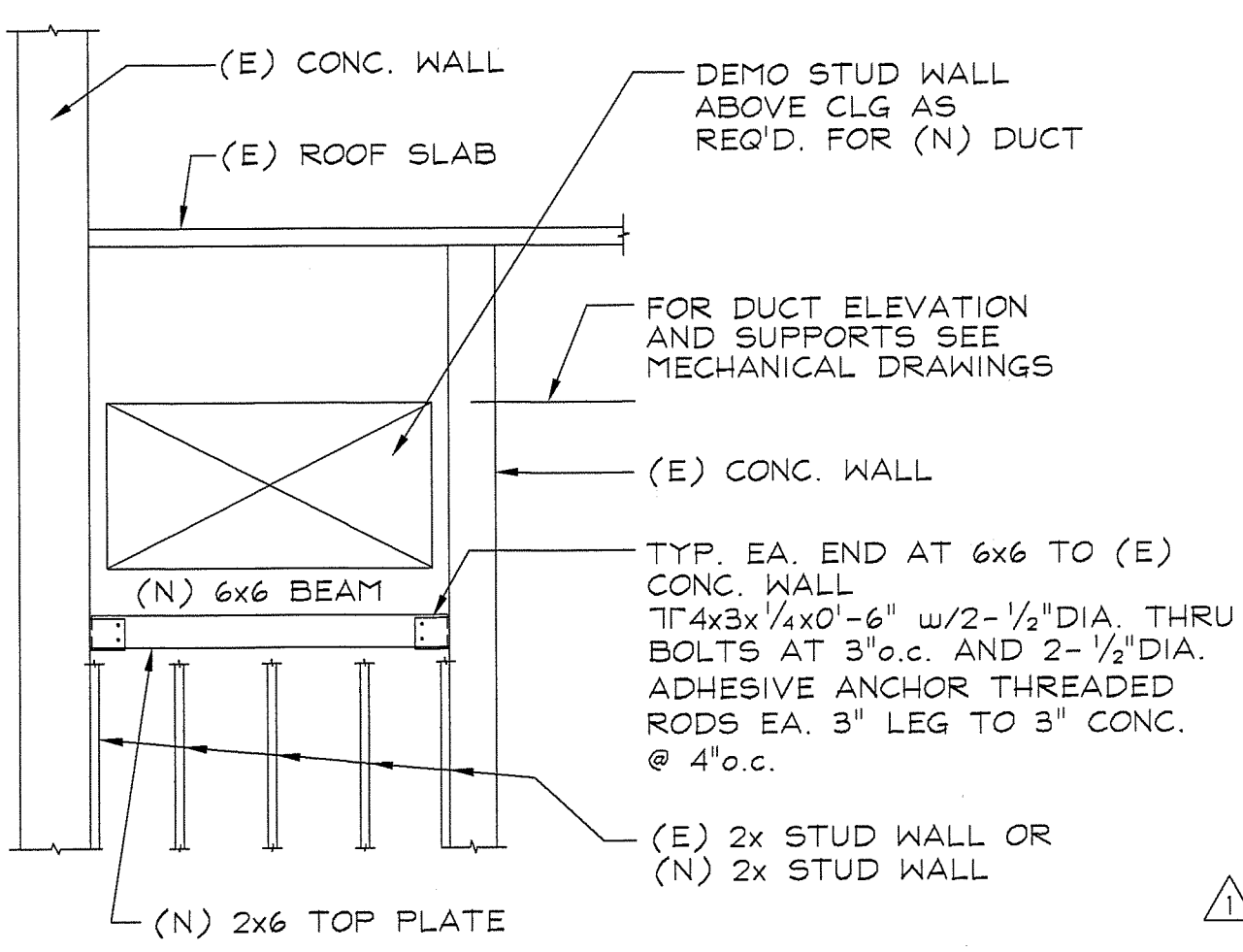
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APR 17 2011

SHEET NO. **S-3**

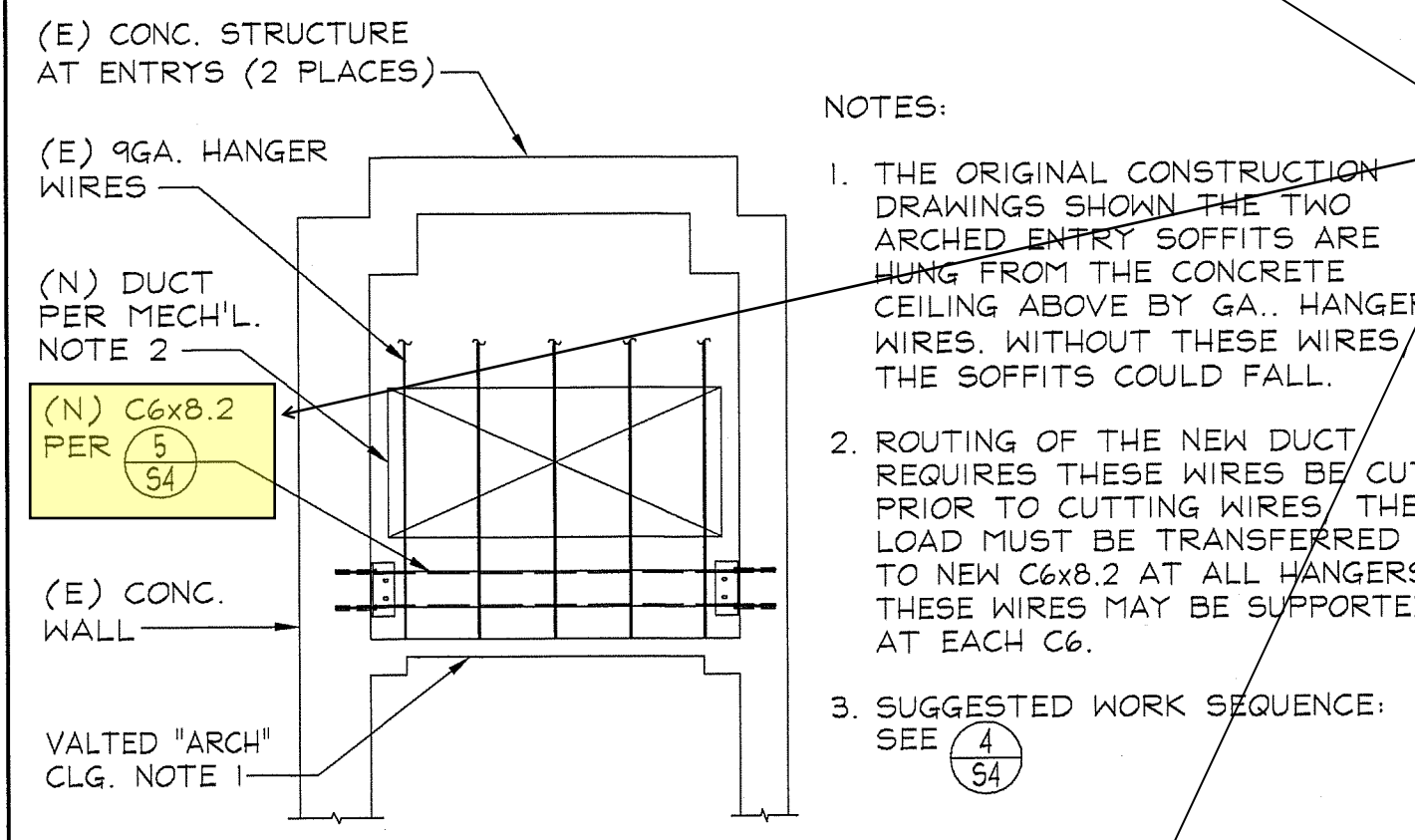
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FIRST AND MEZZANINE FLOOR FRAMING PLANS

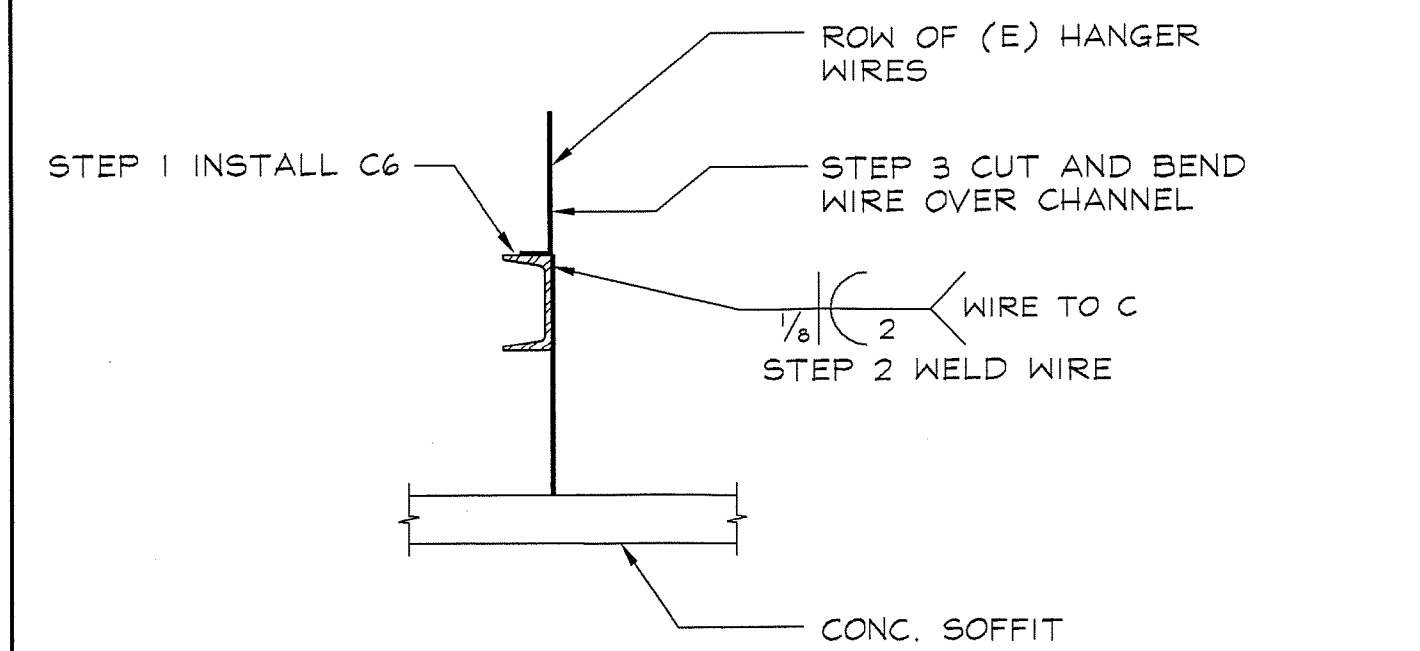
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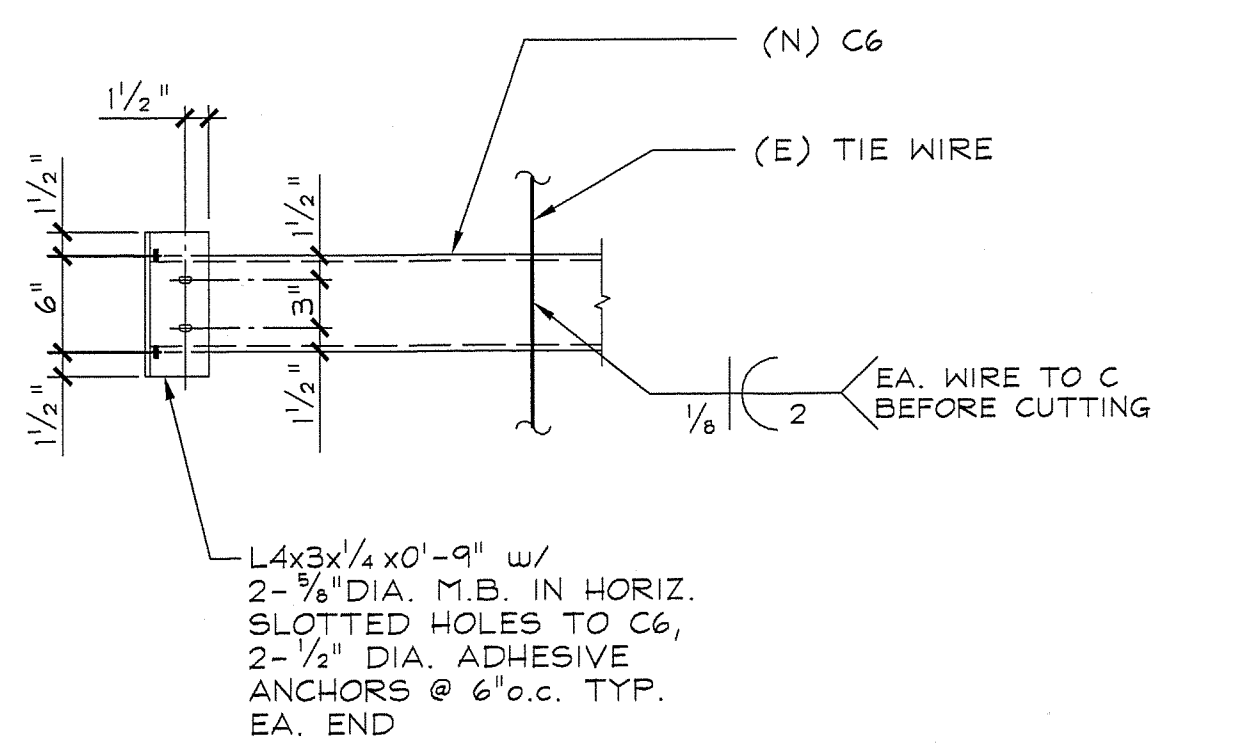
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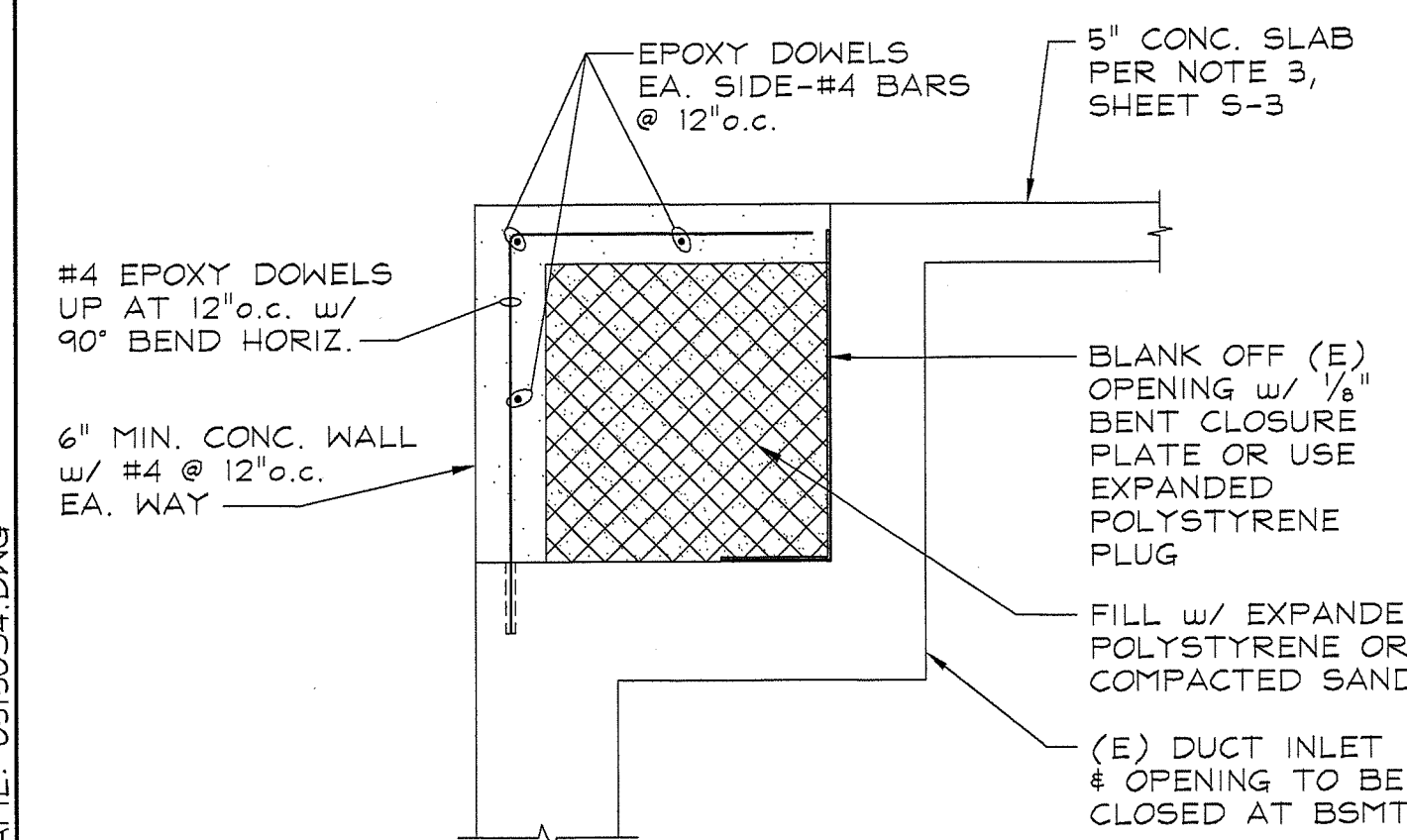
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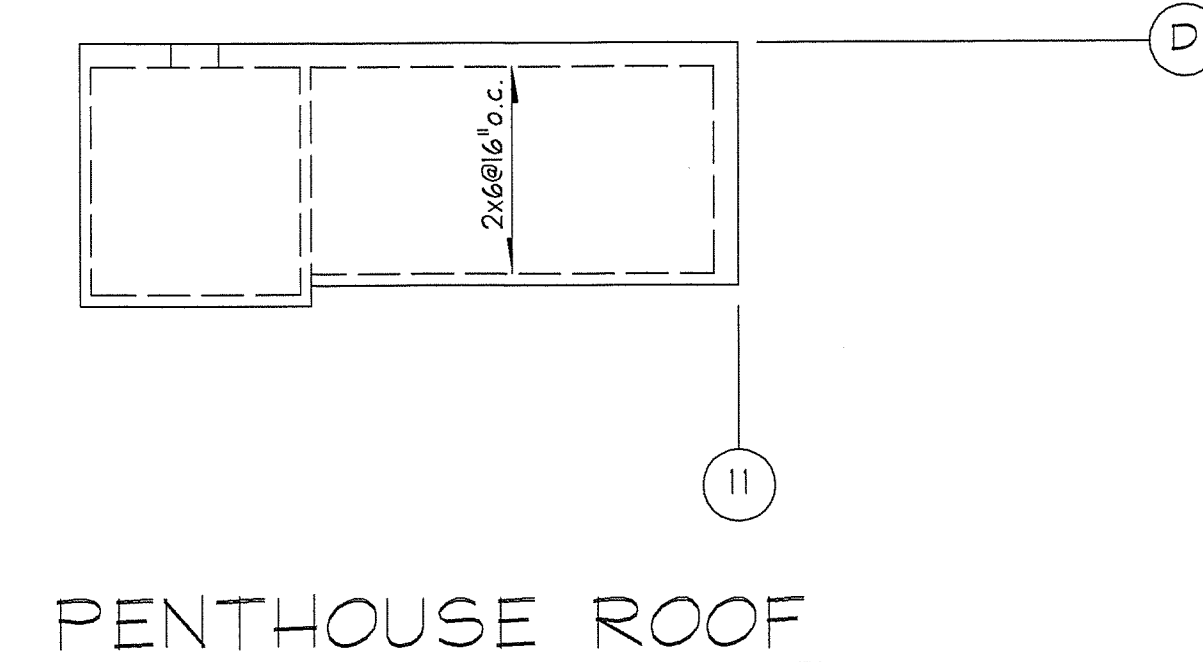
SECTION 4



SECTION 5



SECTION 6



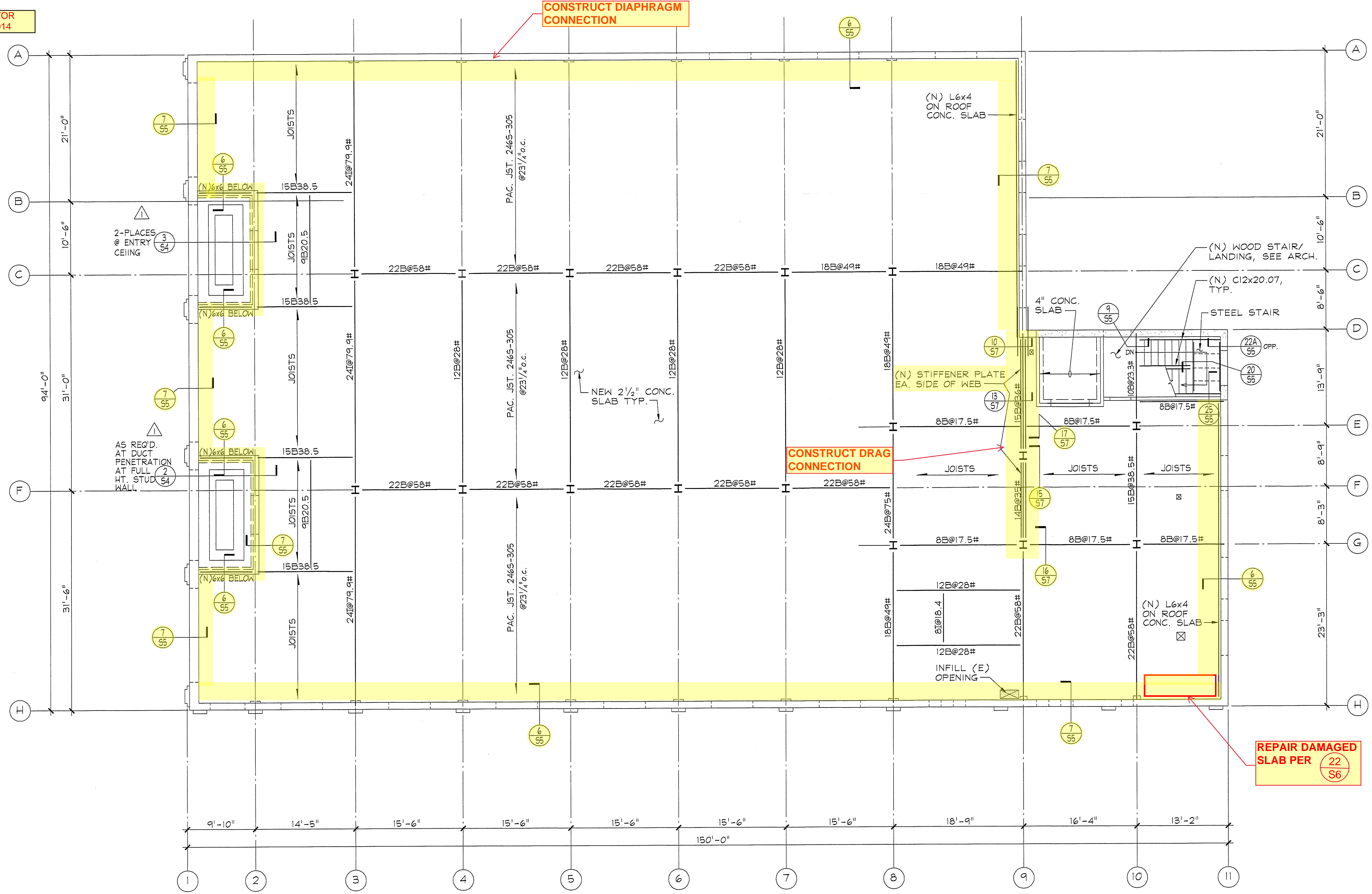
PENTHOUSE ROOF

SEE INSPECTOR COMMENT I-014

CONSTRUCT DIAPHRAGM CONNECTION

CONSTRUCT DRAG CONNECTION

REPAIR DAMAGED SLAB PER (22/56)



NOTES:  
 1. REMOVE (E) WOOD ROOF AND ADD NEW 2 1/2" LIGHT WEIGHT CONCRETE w/ #3 @ 18" o.c. OVER (E) ROOF SLAB. MEDIUM SANDBLAST AT ALL CONTACT SURFACE BETWEEN (E) CONC. SLAB AND (N) CONC. SLAB.  
 2. ALL ELEMENTS ARE EXISTING (E) UNLESS INDICATED AS NEW (N).

LEGEND:  
 [Symbol] OPENING IN (E) ELEVATED FLOOR TO BE CLOSED.  
 [Symbol] NEW MECHANICAL FLOOR OPENINGS. DO NOT DAMAGE (E) JOISTS.

DRAWING NAME: 050504.DWG

**GROSSMAN & SPER ASSOCIATES, INC.**  
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 E-MAIL: ENGINEERING@GROSSMANSPER.COM

NO.	DATE	REVISIONS

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 Fax: (626) 398-7438  
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**STATE OF CALIFORNIA**  
 ARCHITECT  
 No. 51557  
 EXPIRES 02/05

**CLAYPOOL BUILDING RECONSTRUCTION**  
**PALO VERDE COLLEGE, NEEDLES CENTER**  
 PALO VERDE COMMUNITY COLLEGE DISTRICT  
 725 BROADWAY, NEEDLES, CALIFORNIA 92363

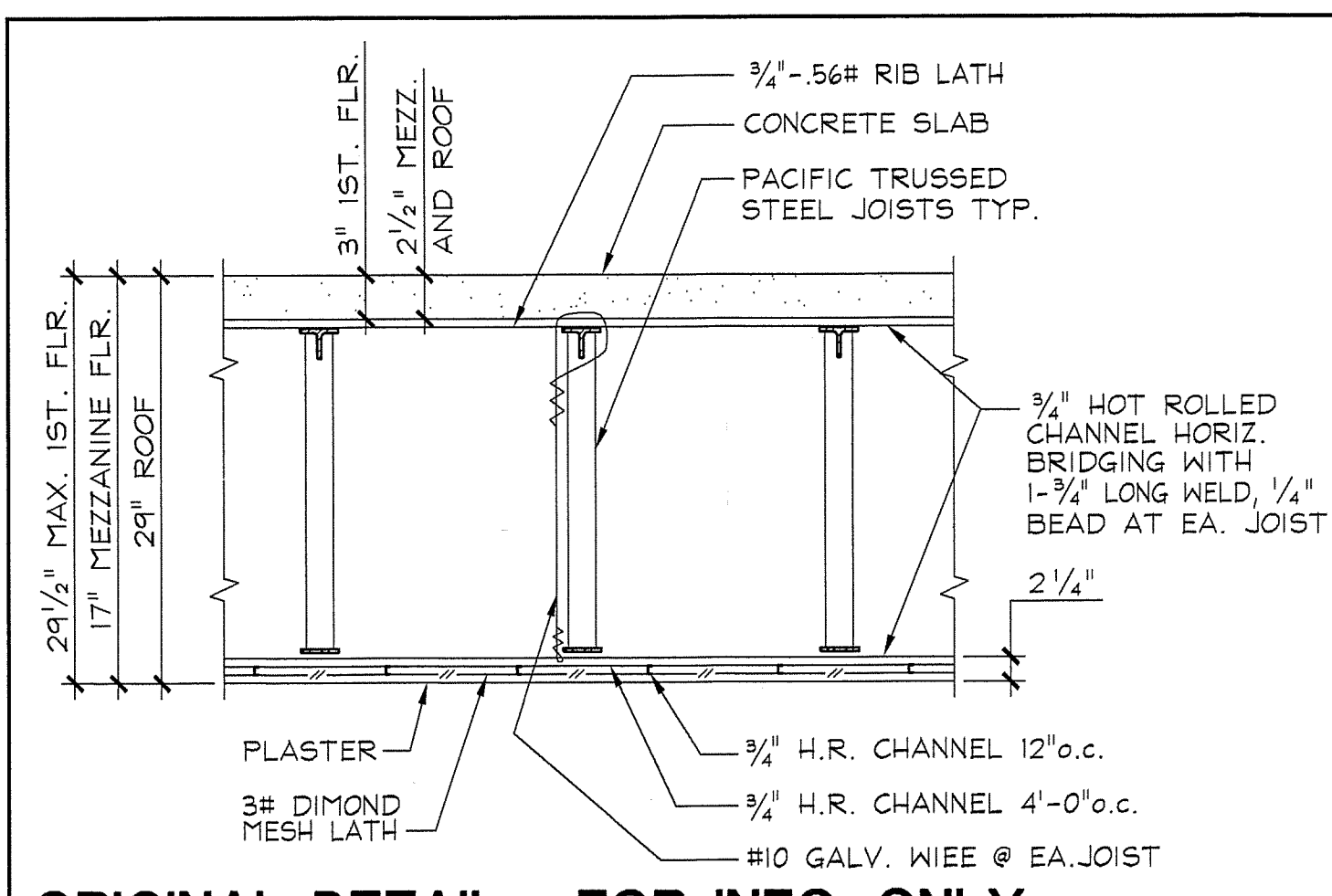
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DATE: 07/06/07  
 JOB NO.: 05064.00  
 DRAWN: GC  
 CHECKED: RC

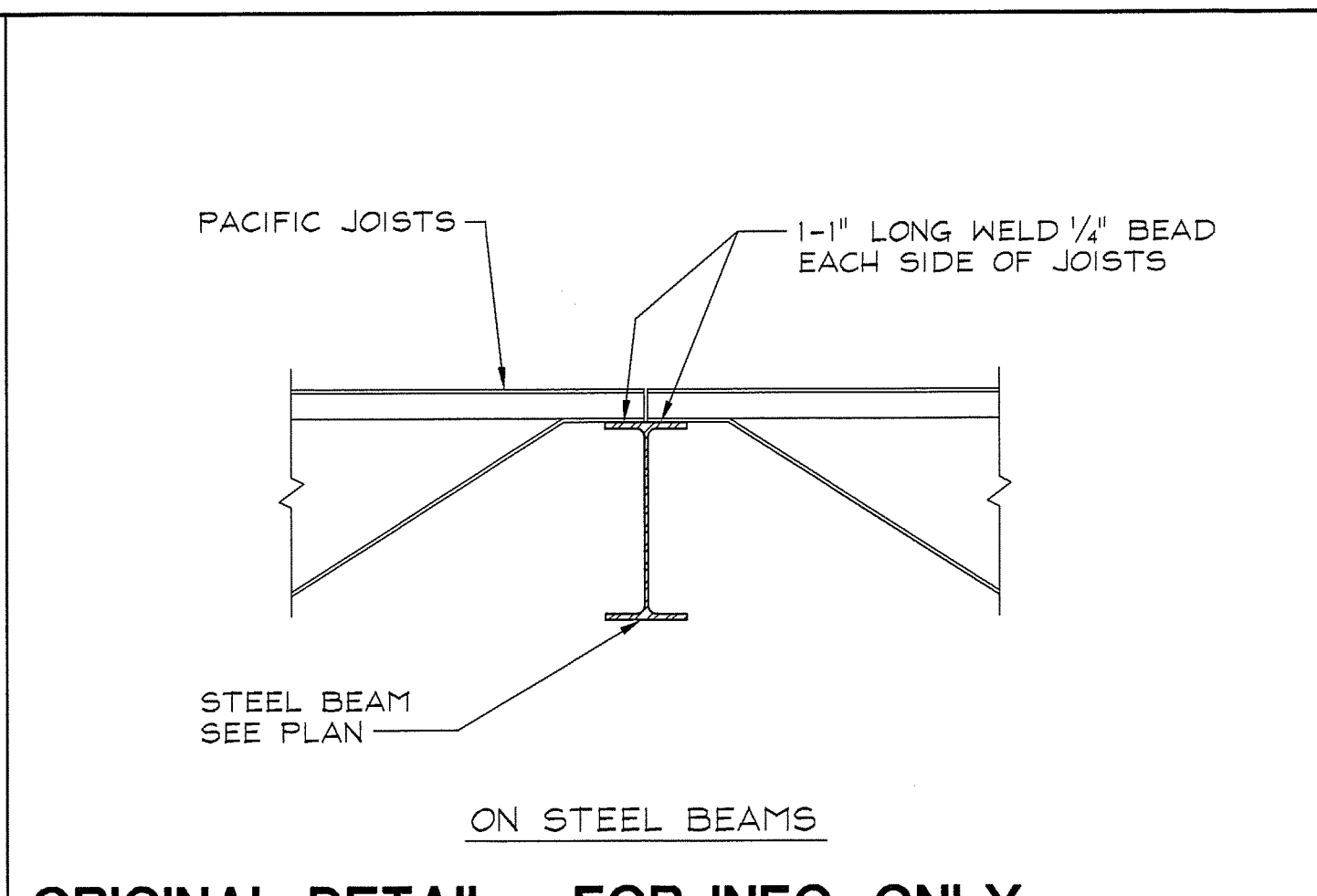
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 DIV. OF THE STATE ARCHITECTS  
 OFFICE OF REGISTERED ARCHITECTS  
 110562  
 APR 07 2011

**S-4**

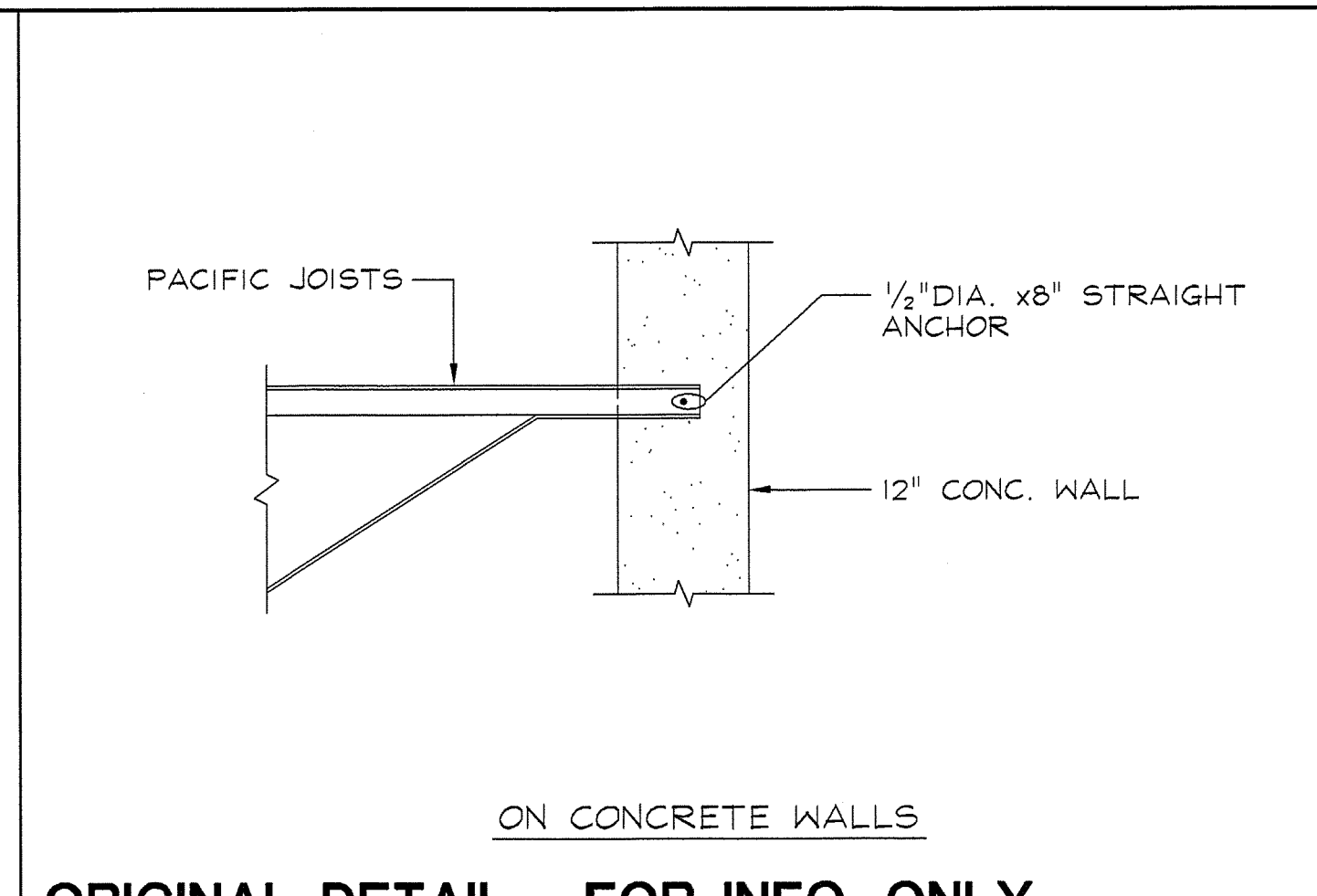
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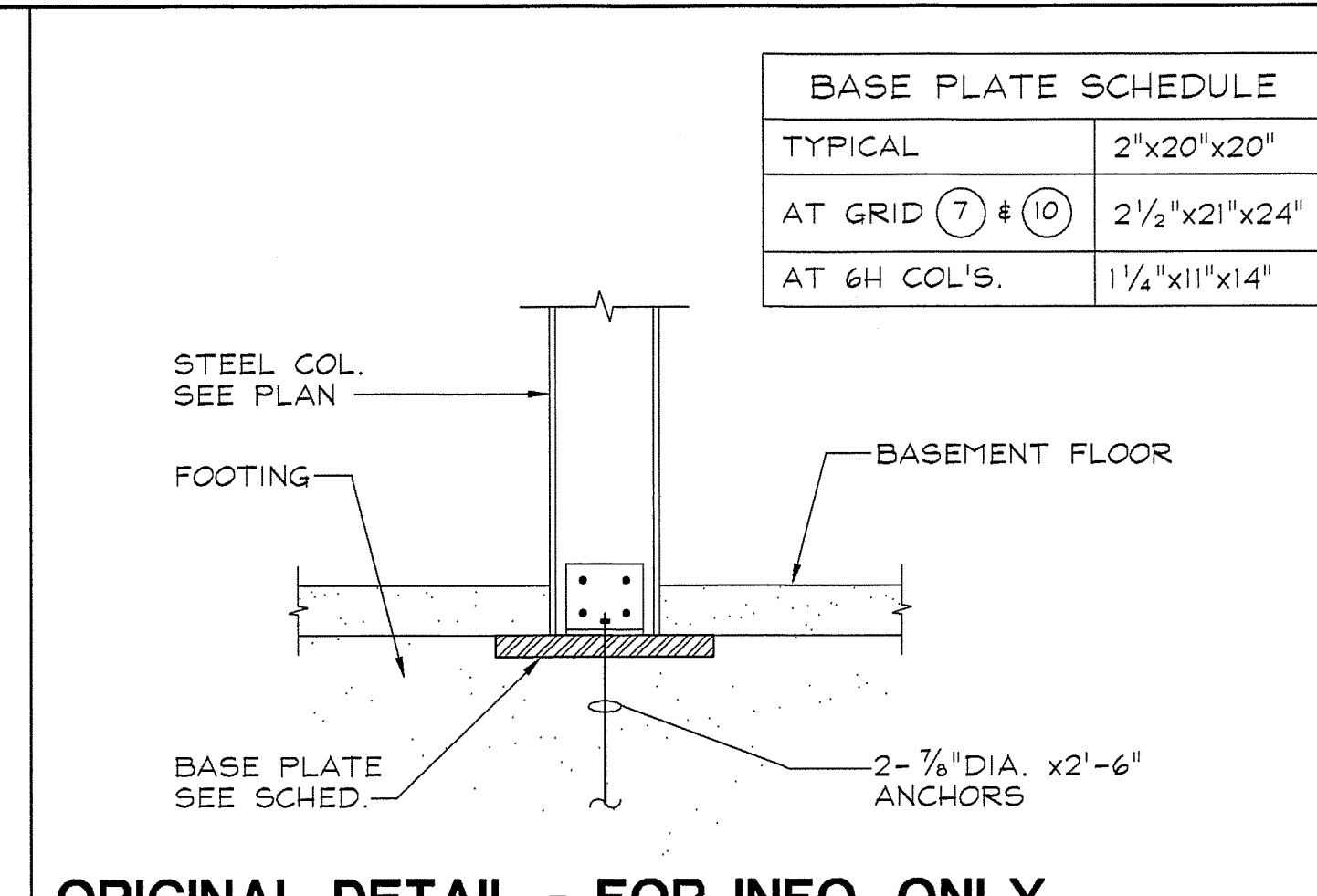
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TYPICAL EXIST. DETAIL



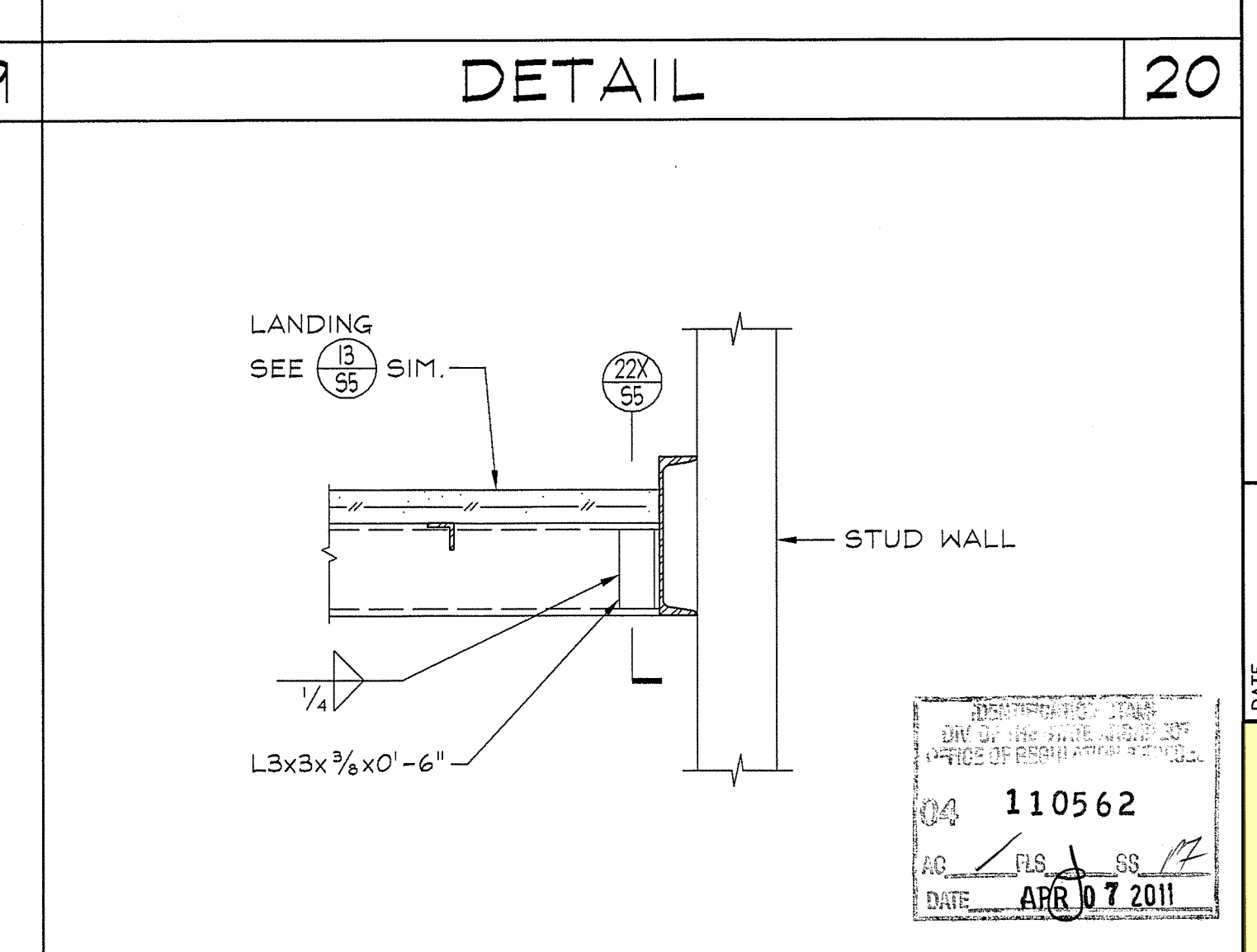
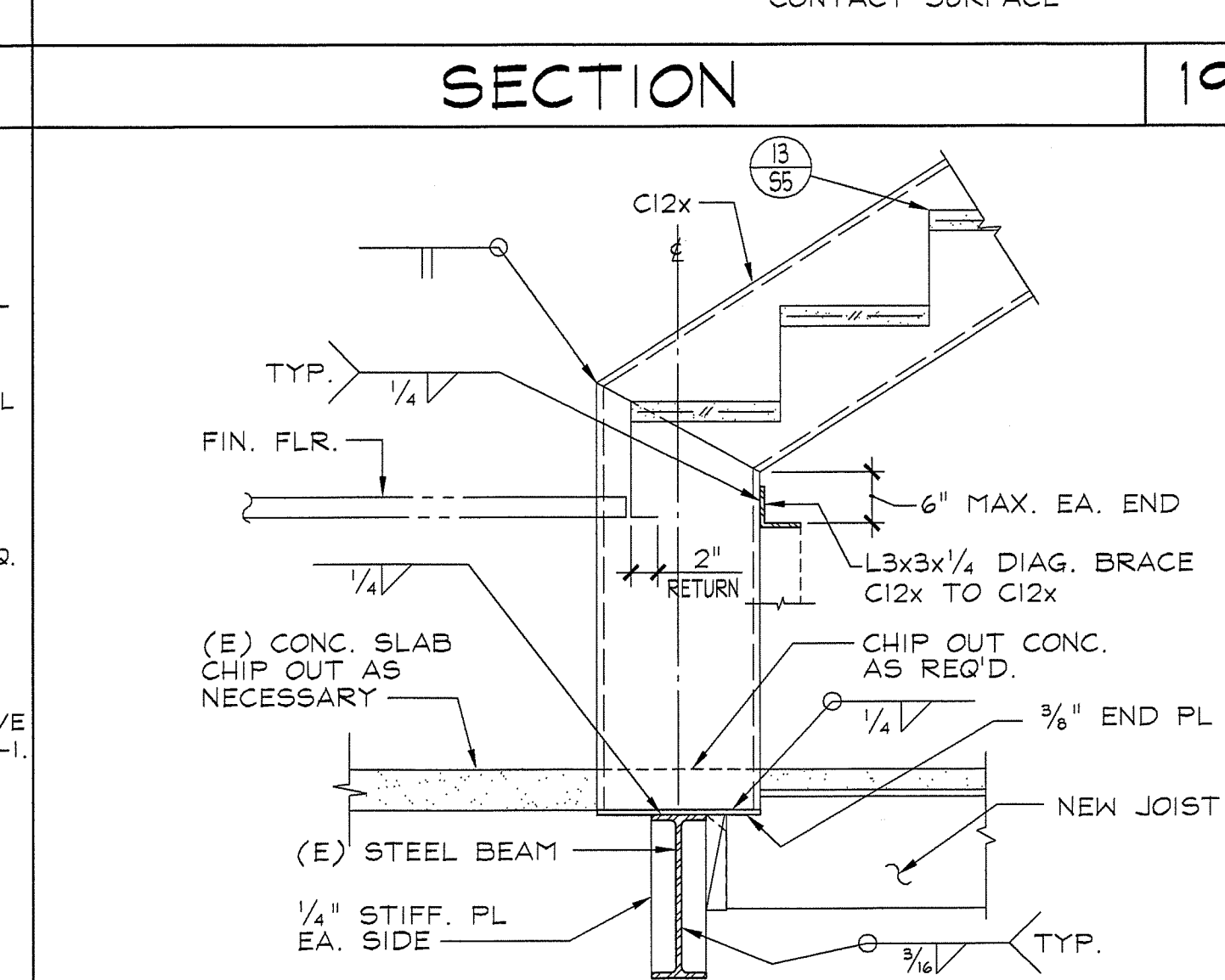
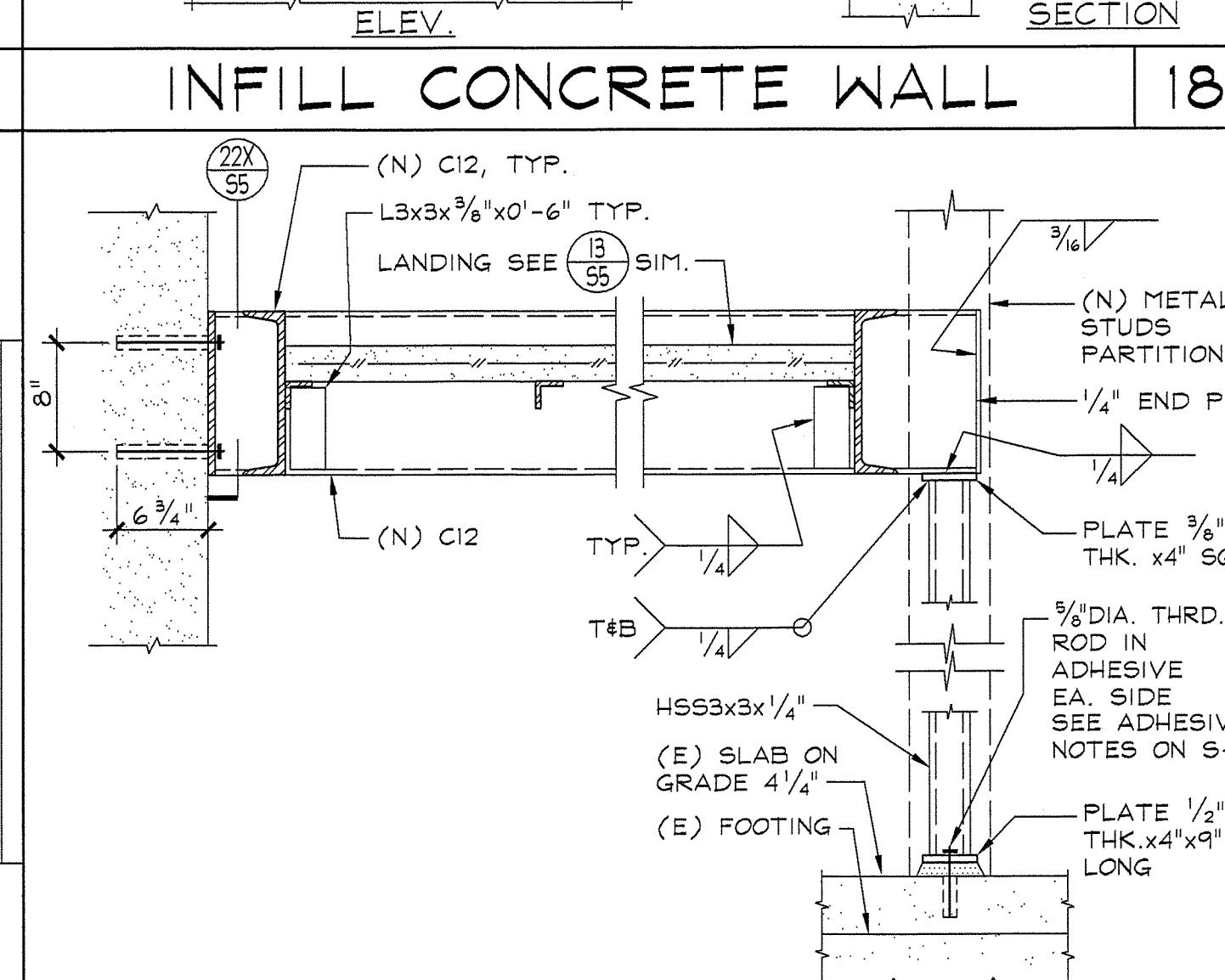
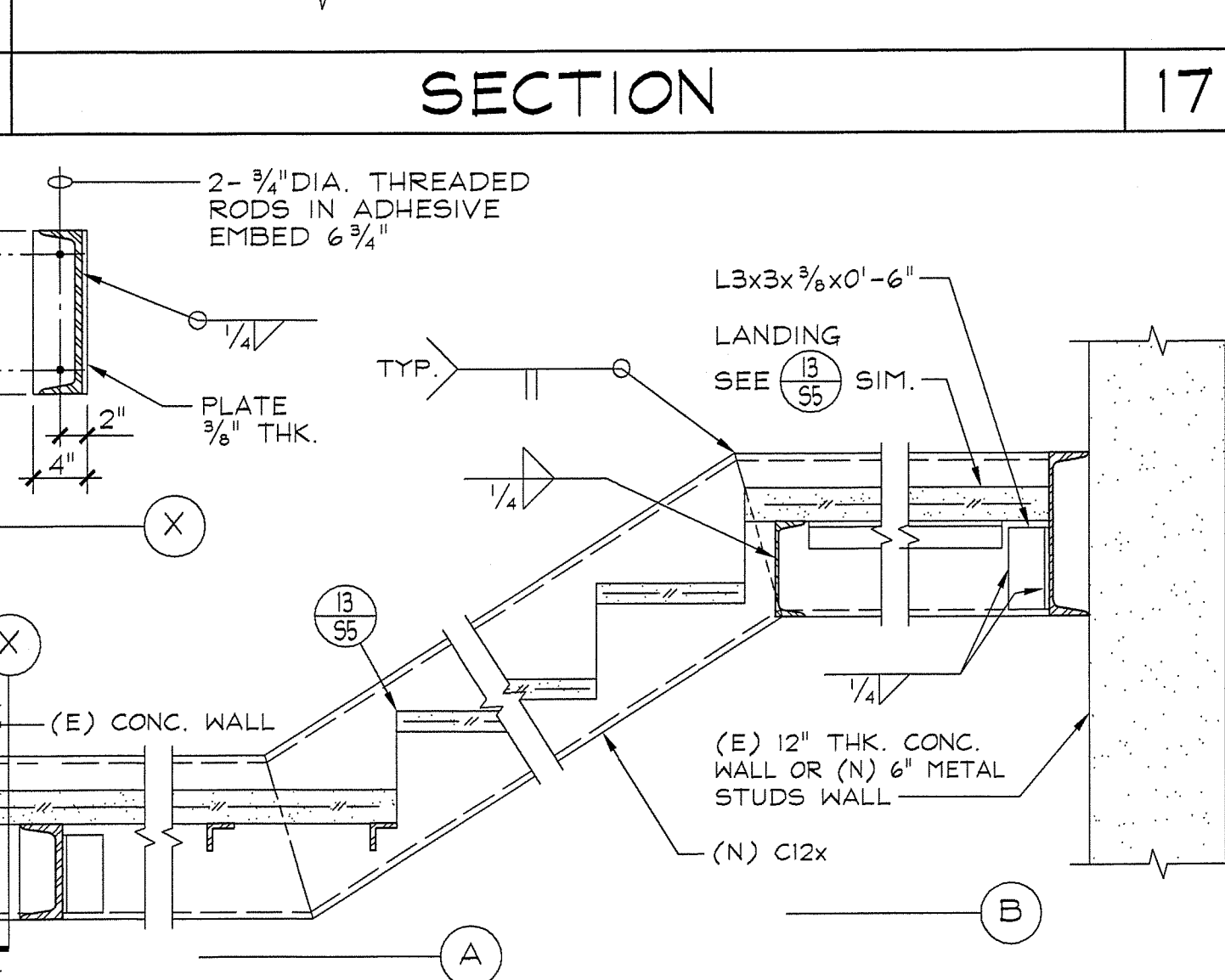
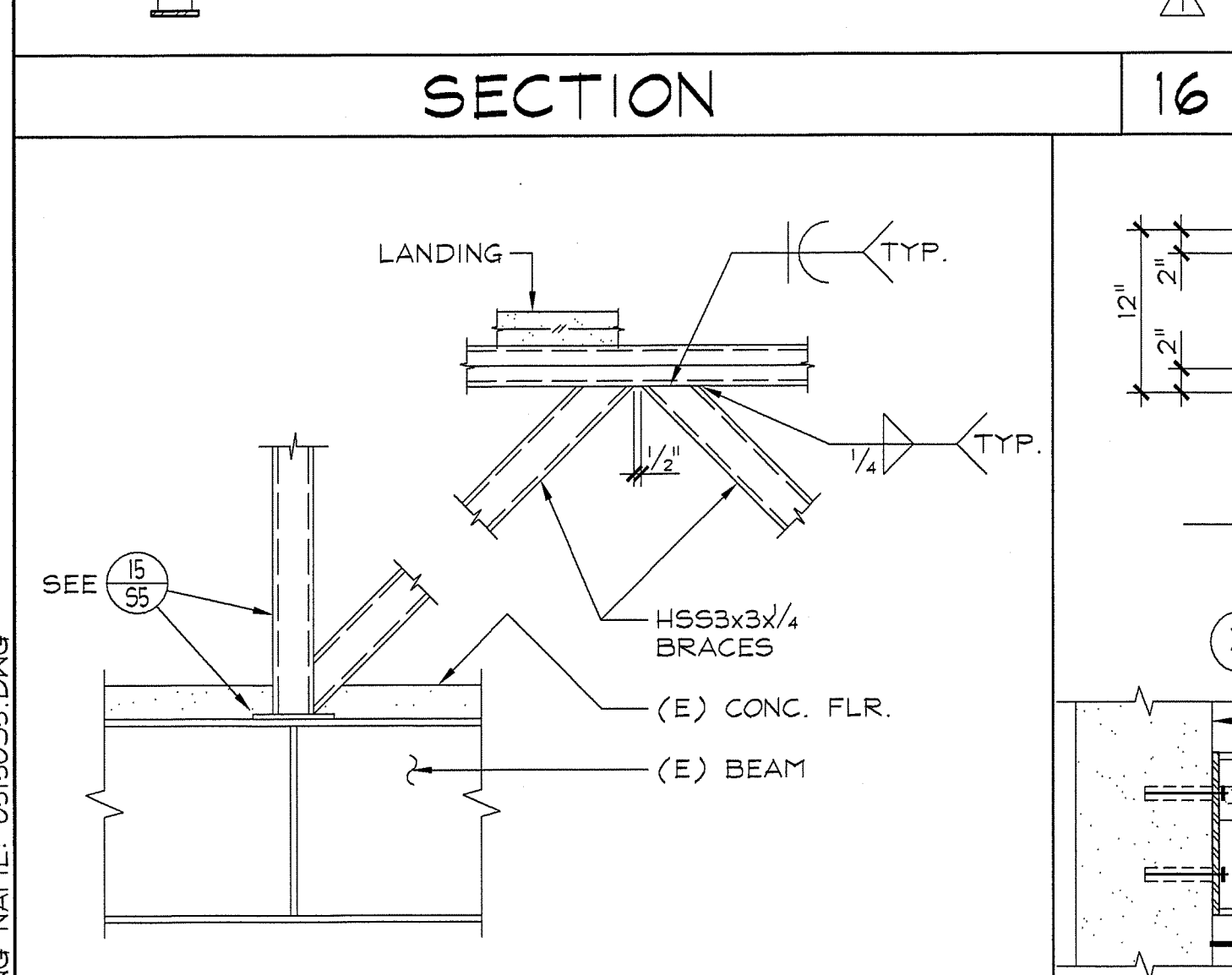
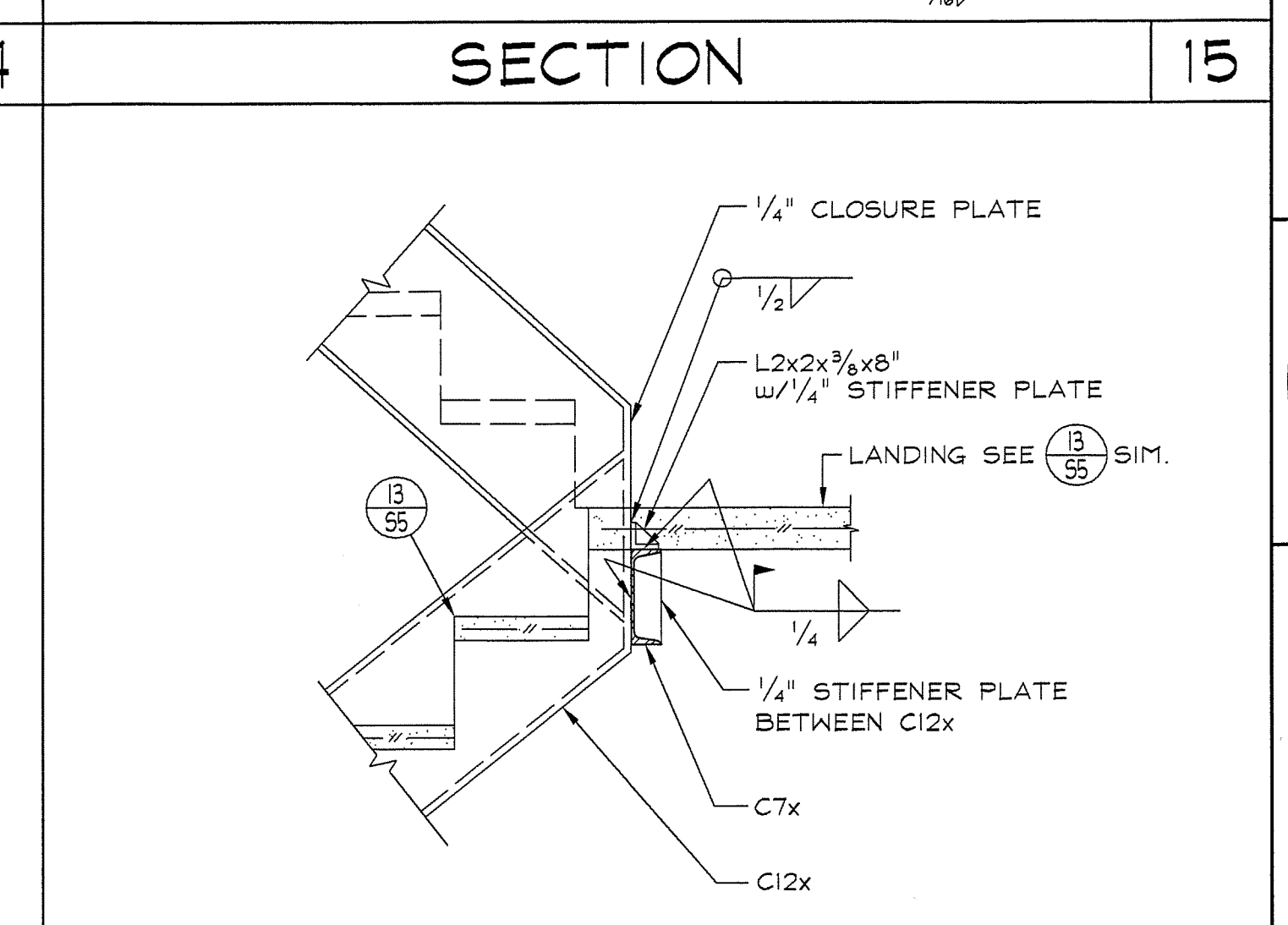
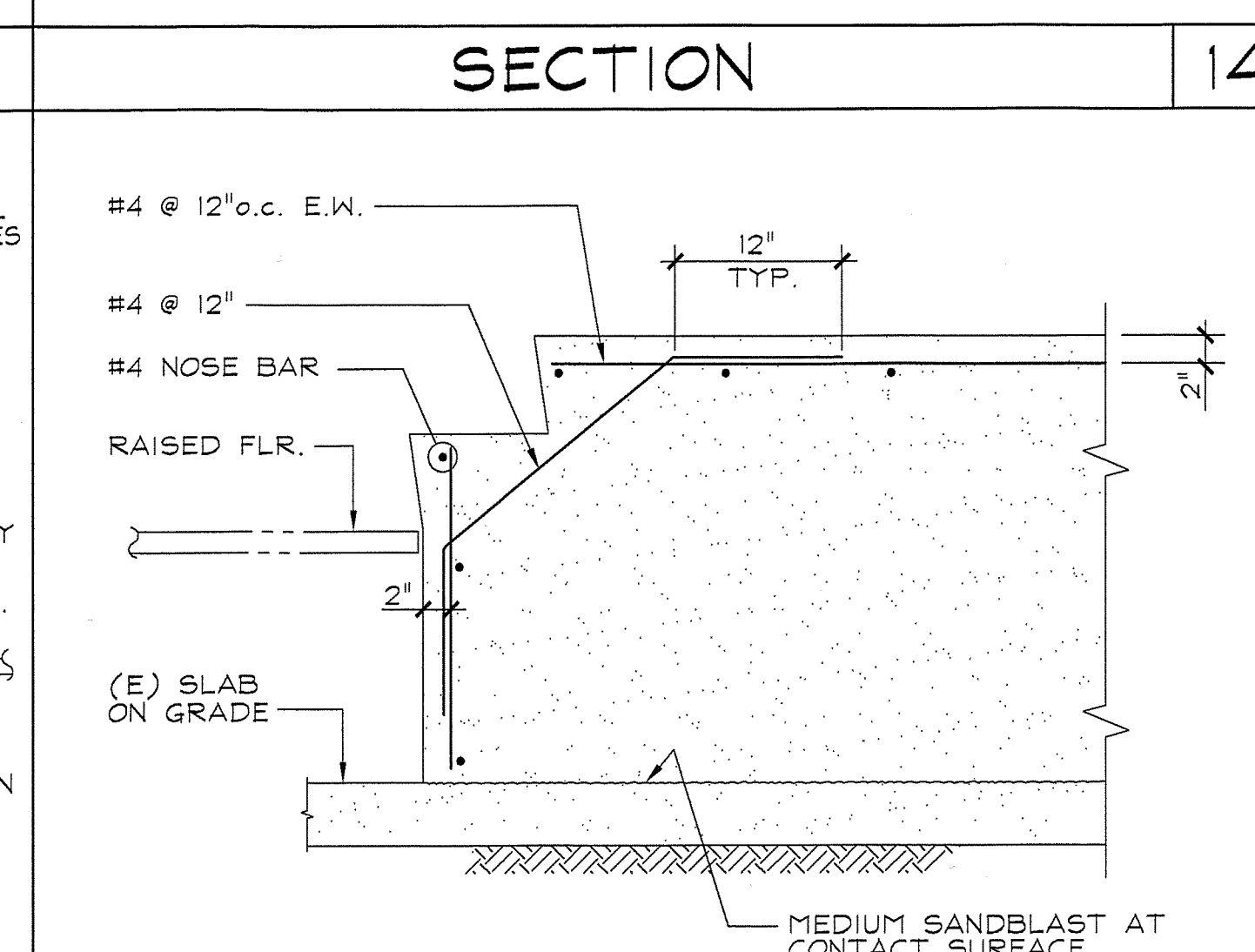
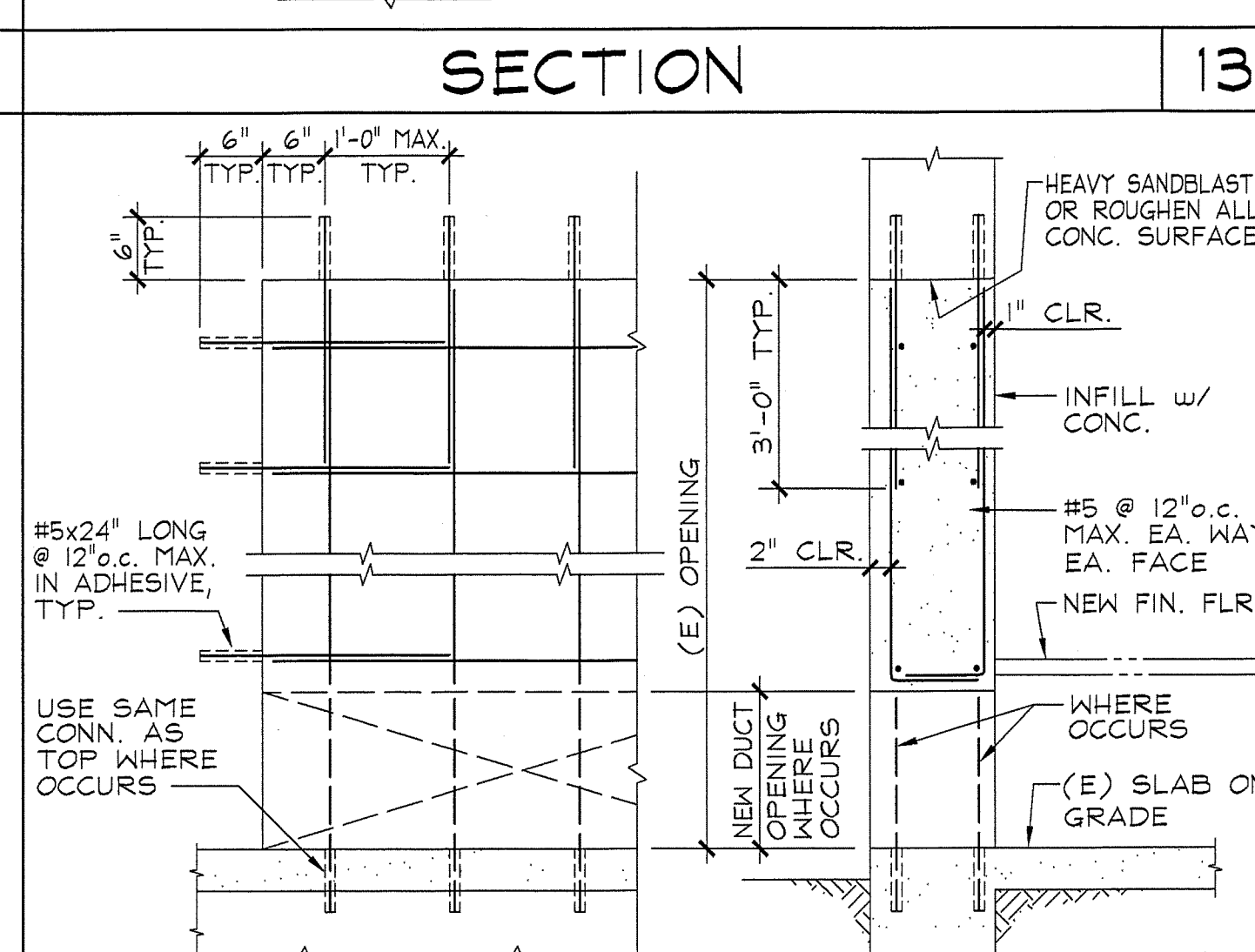
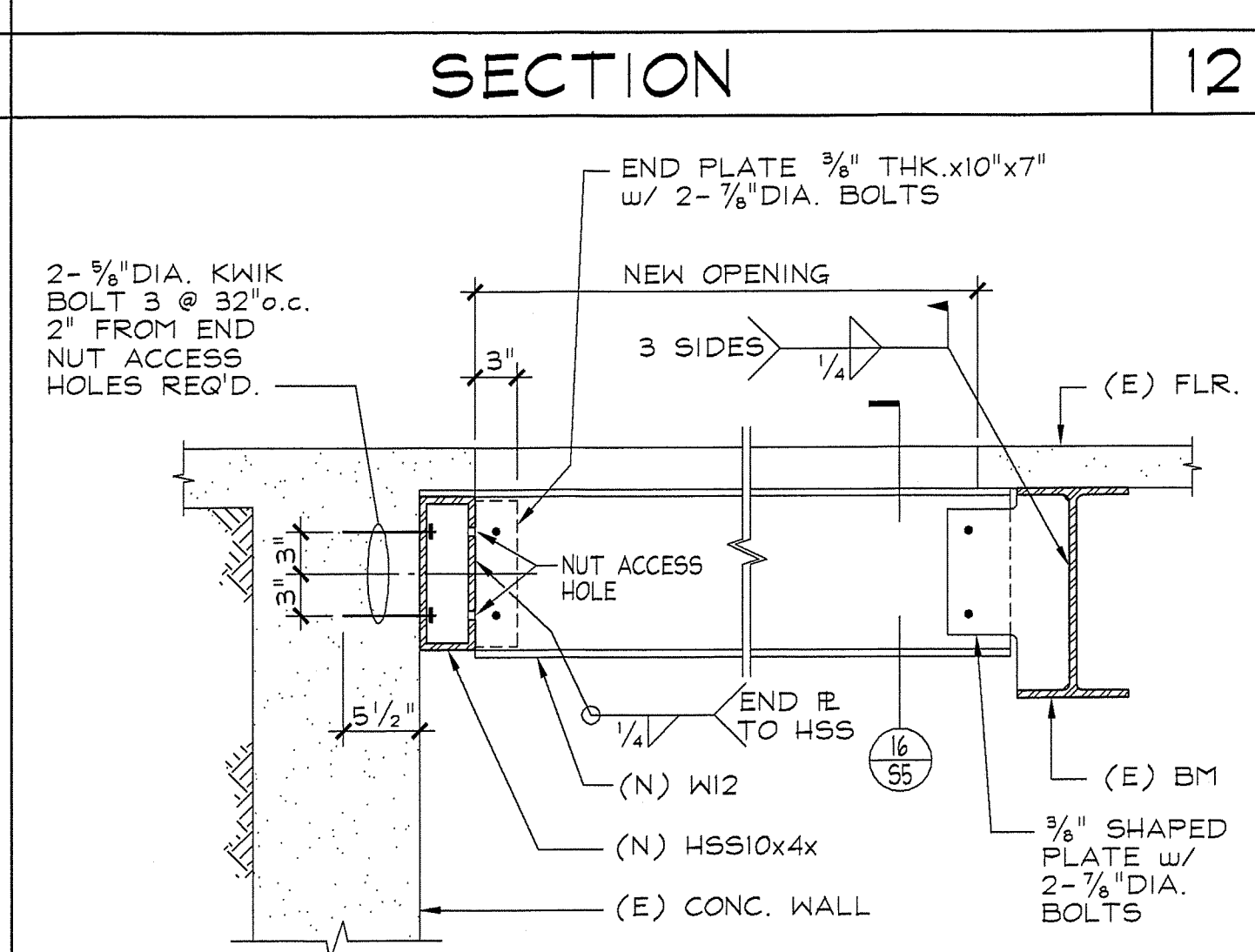
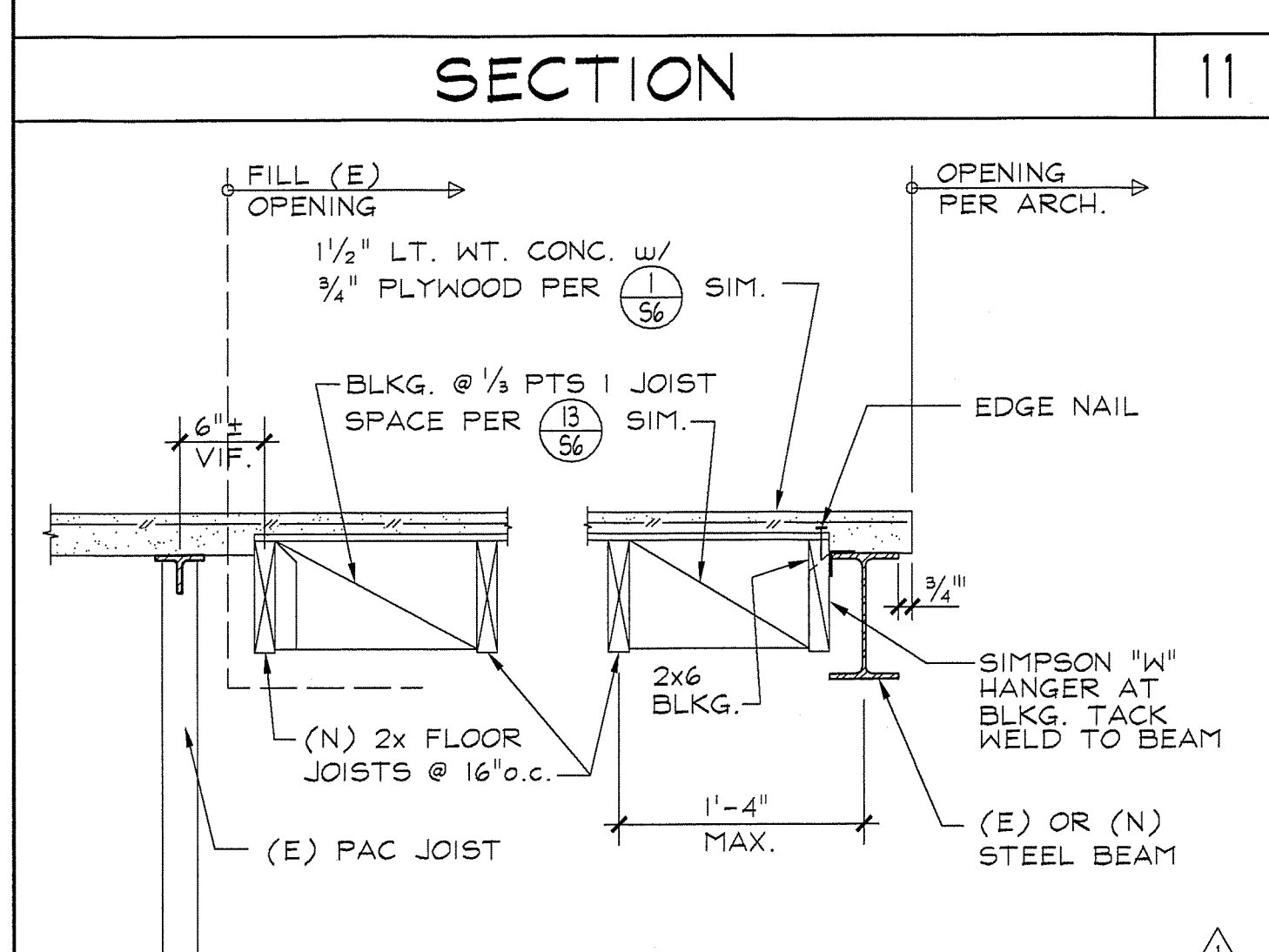
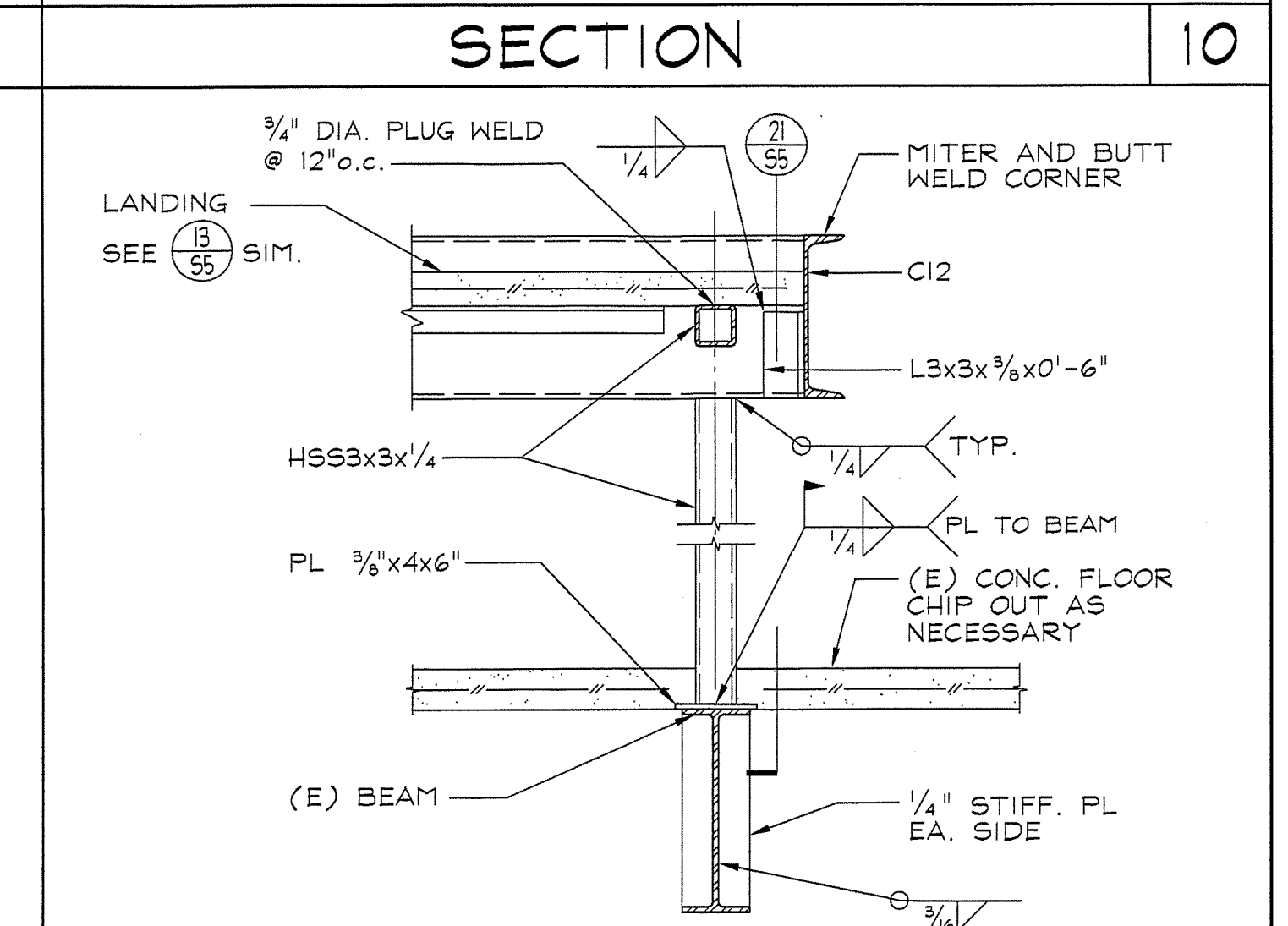
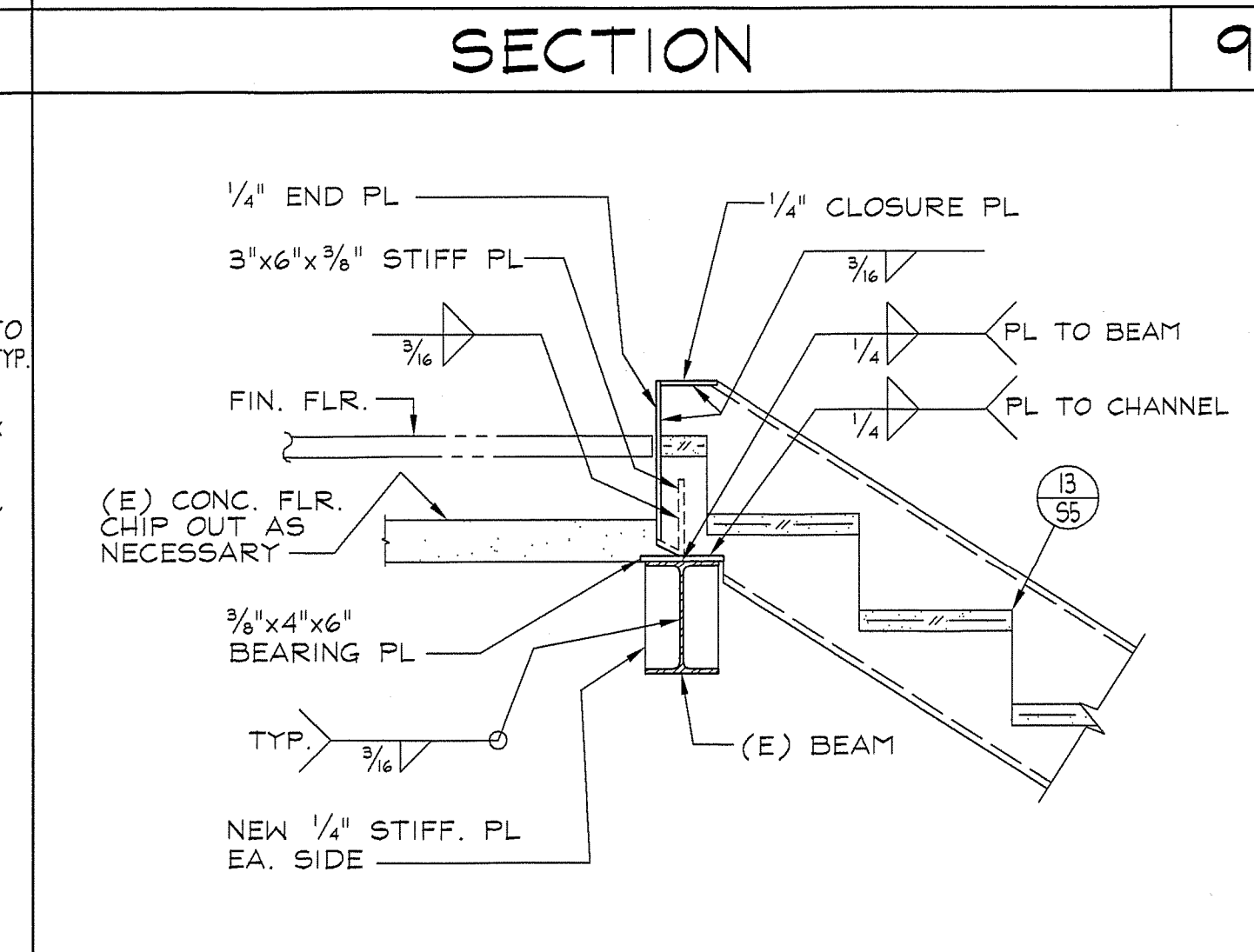
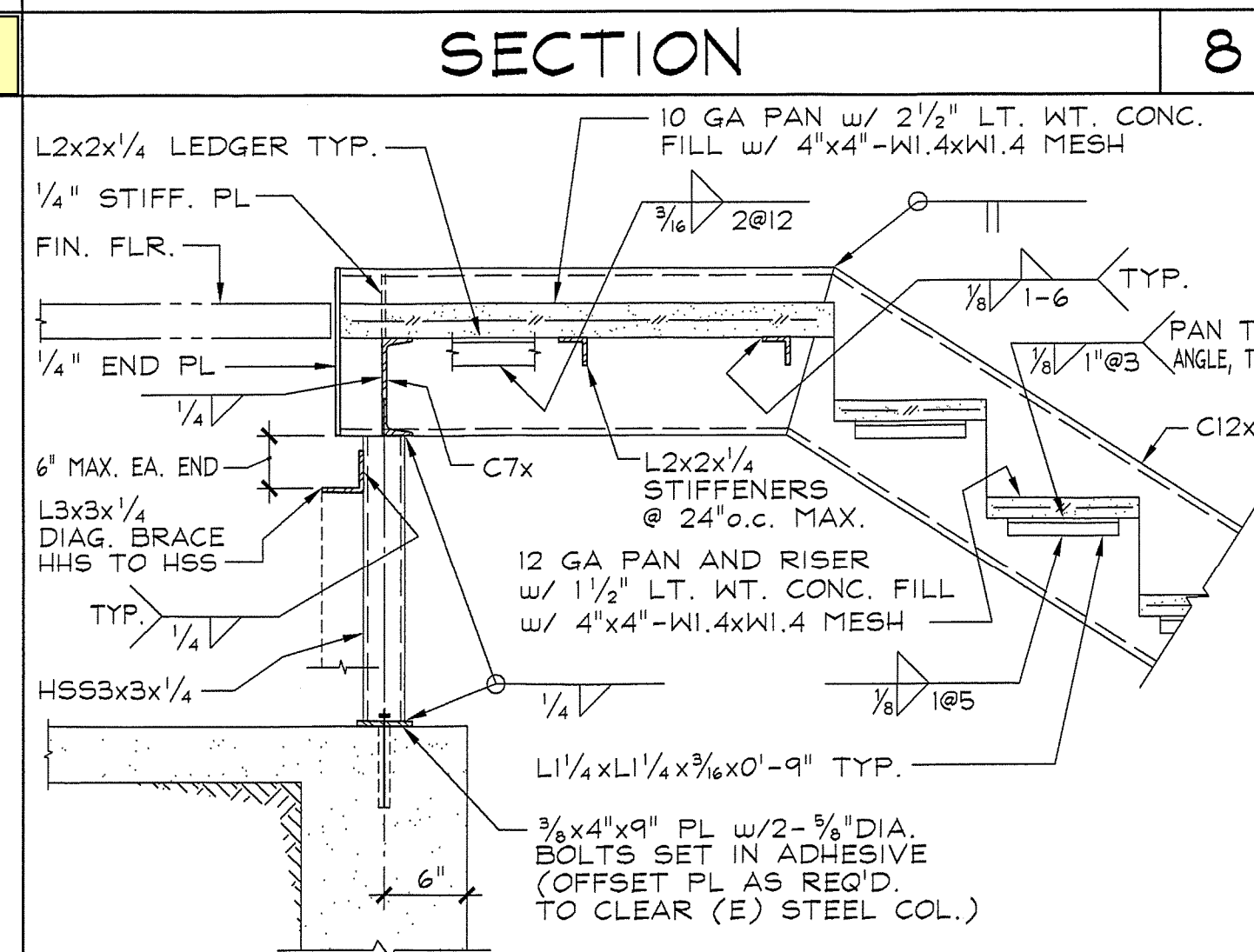
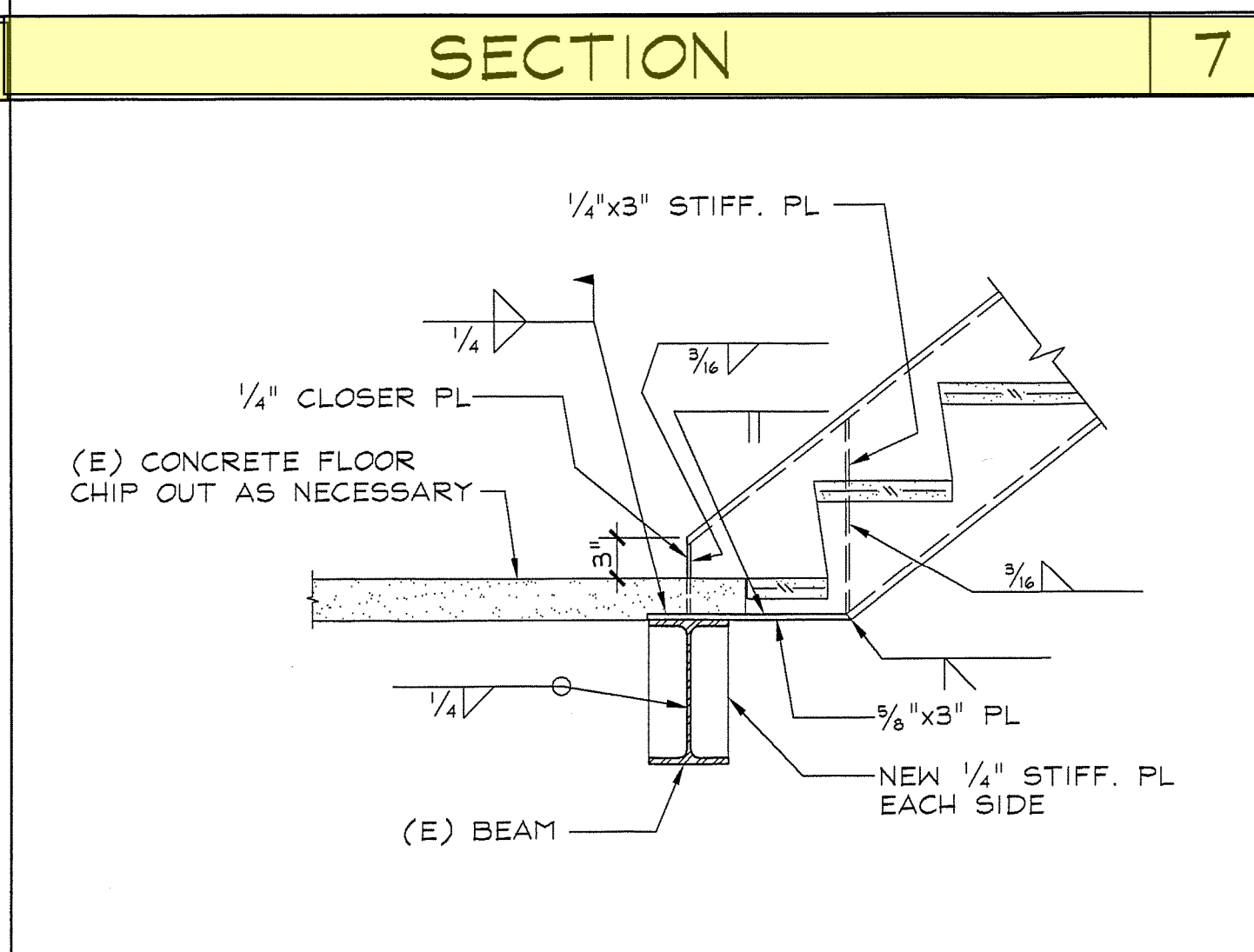
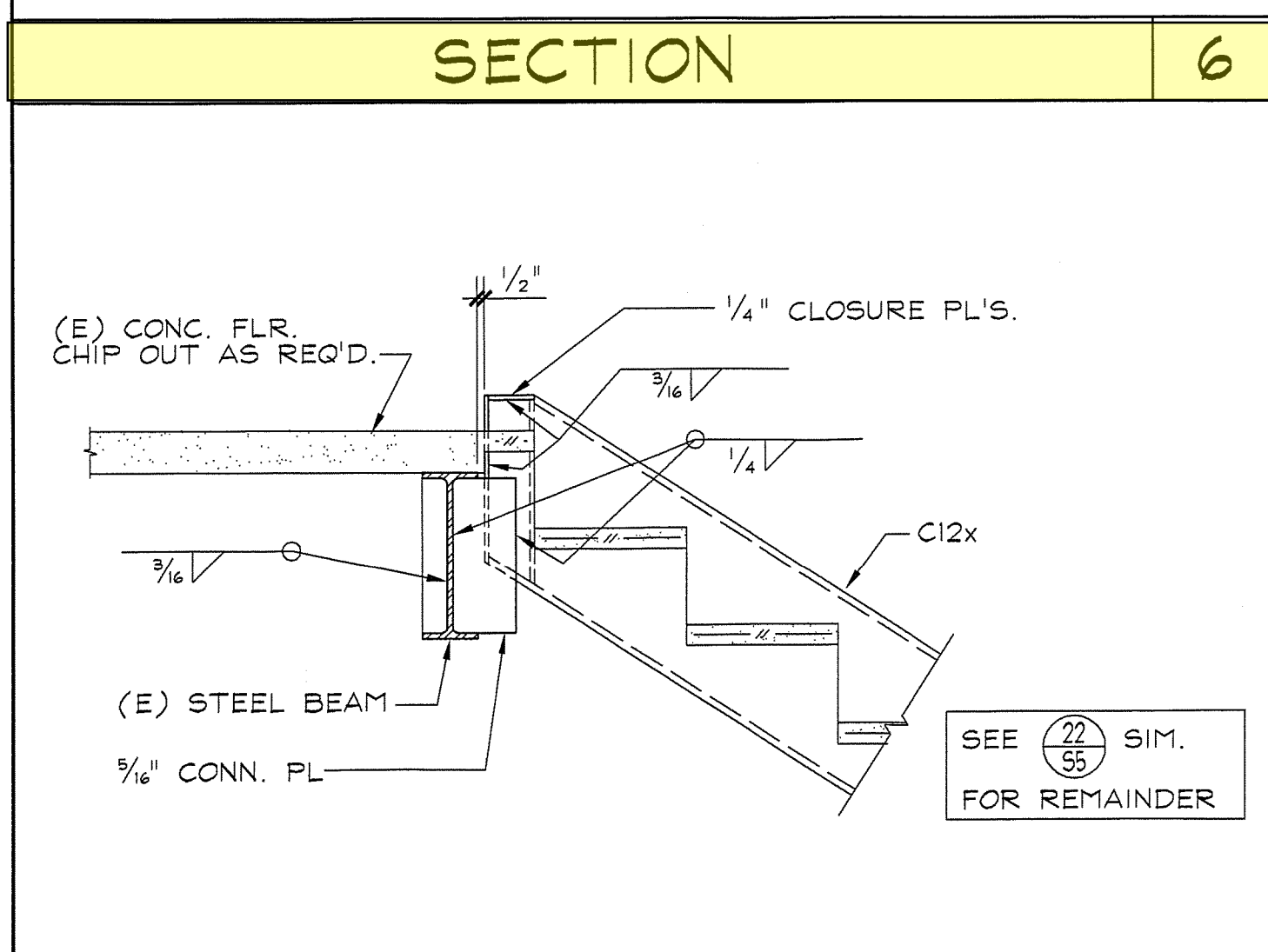
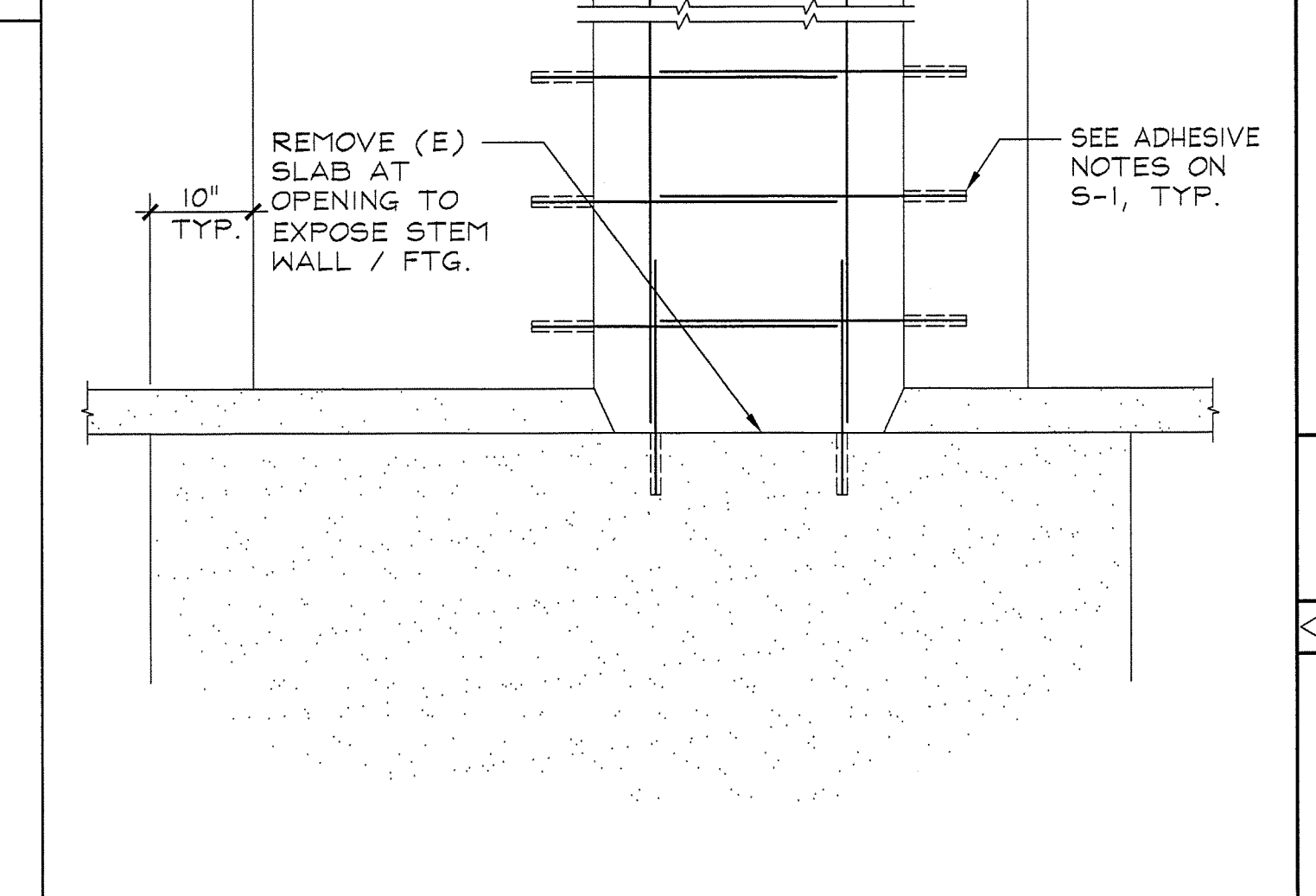
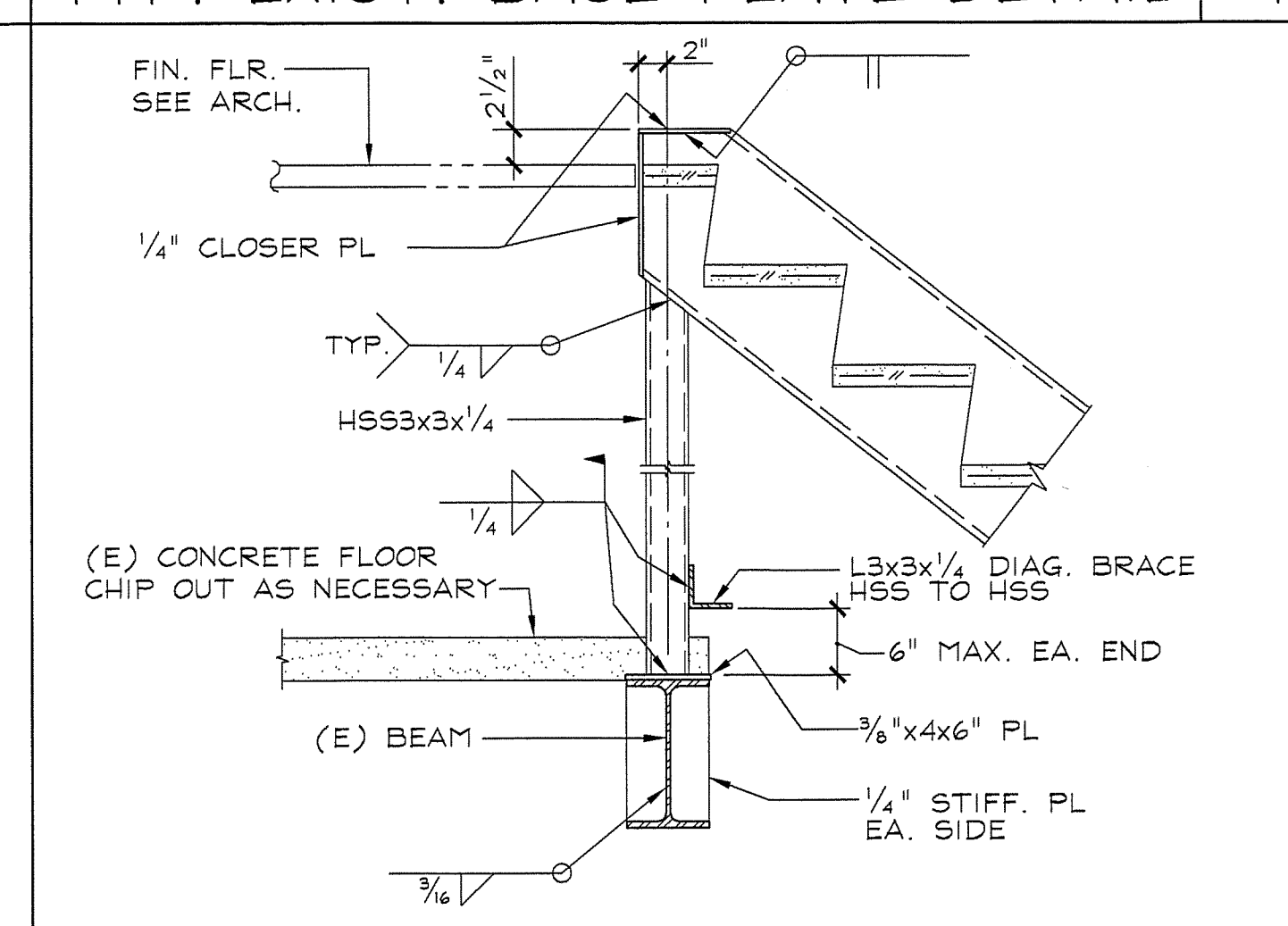
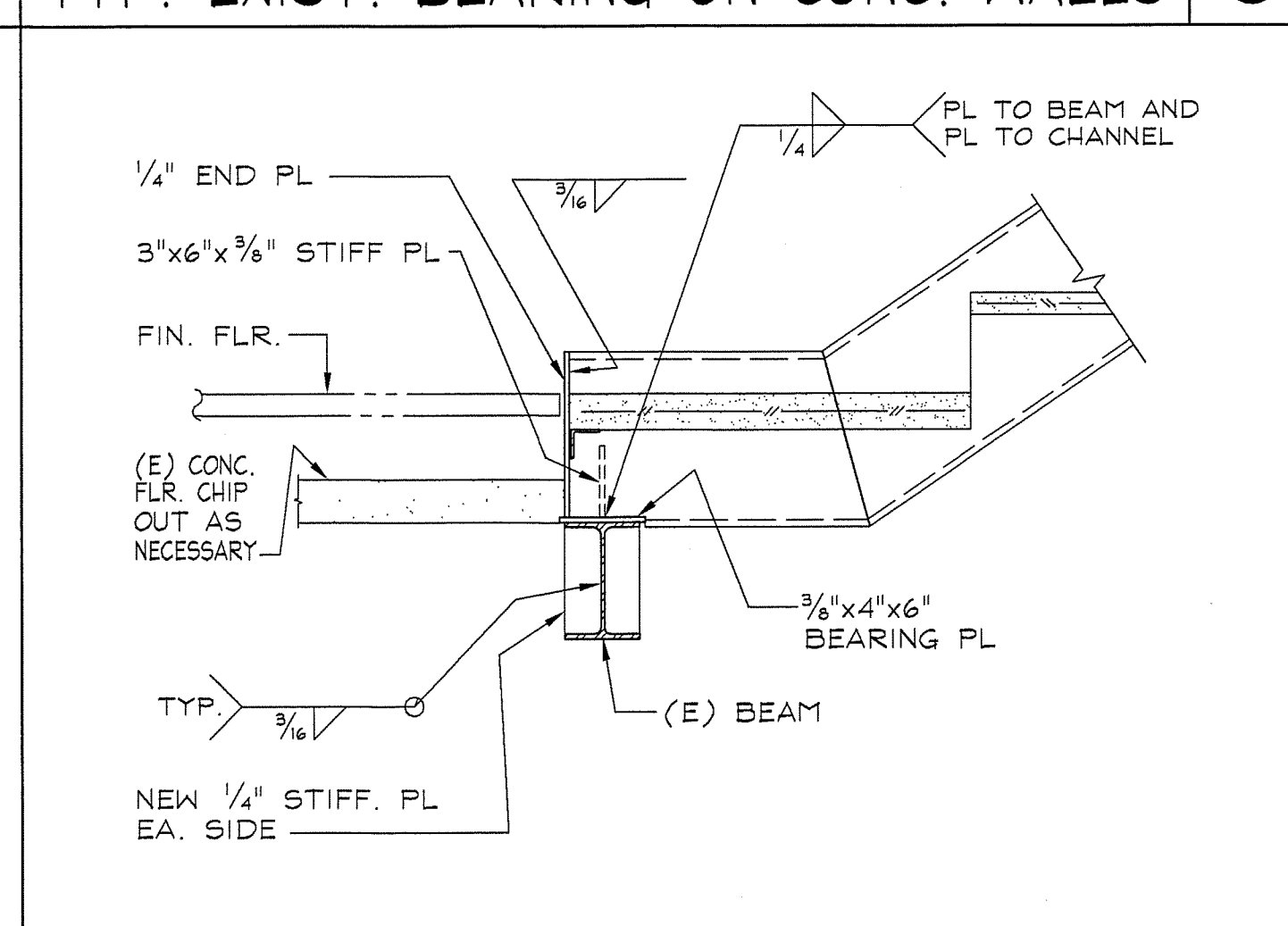
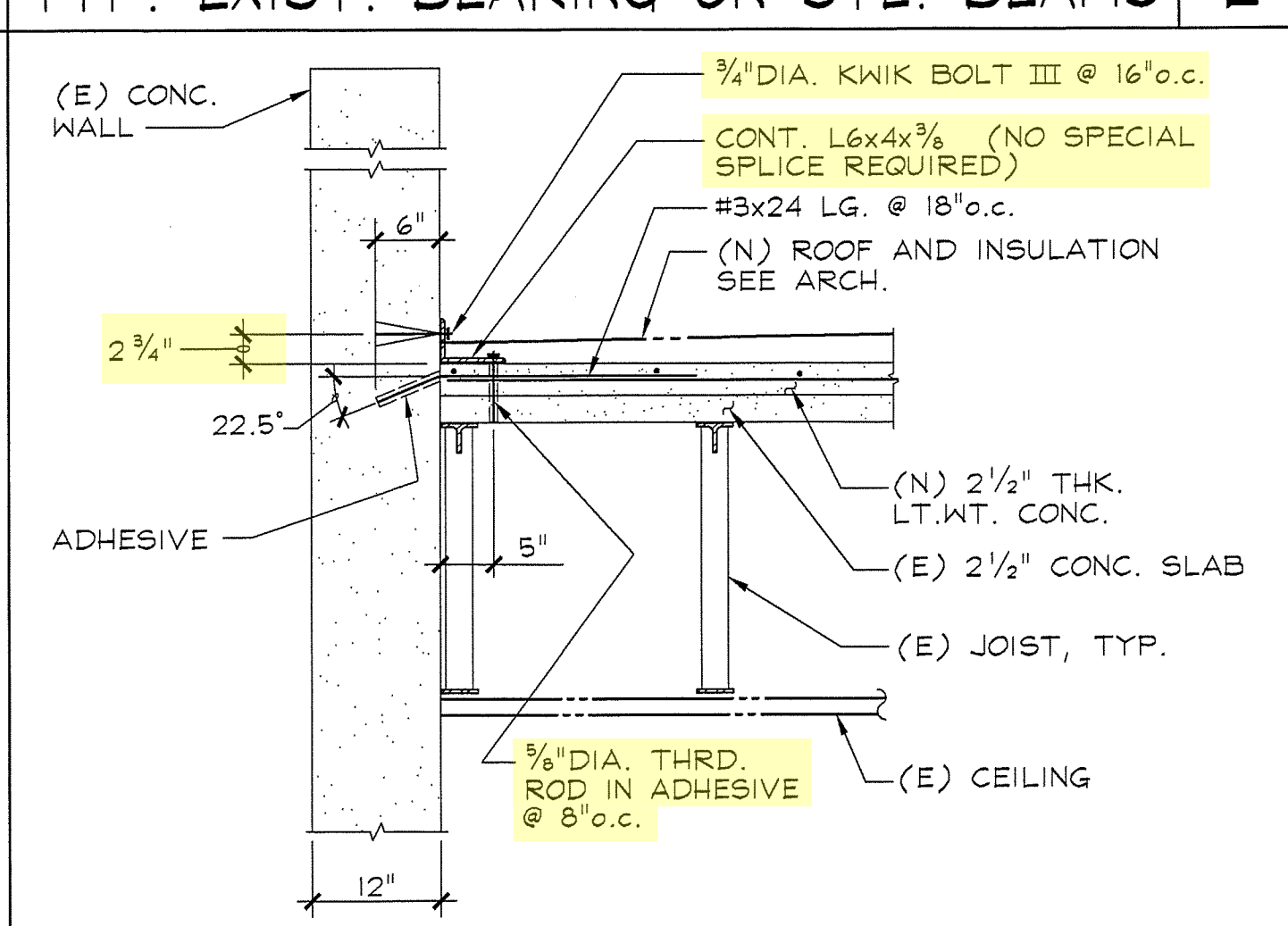
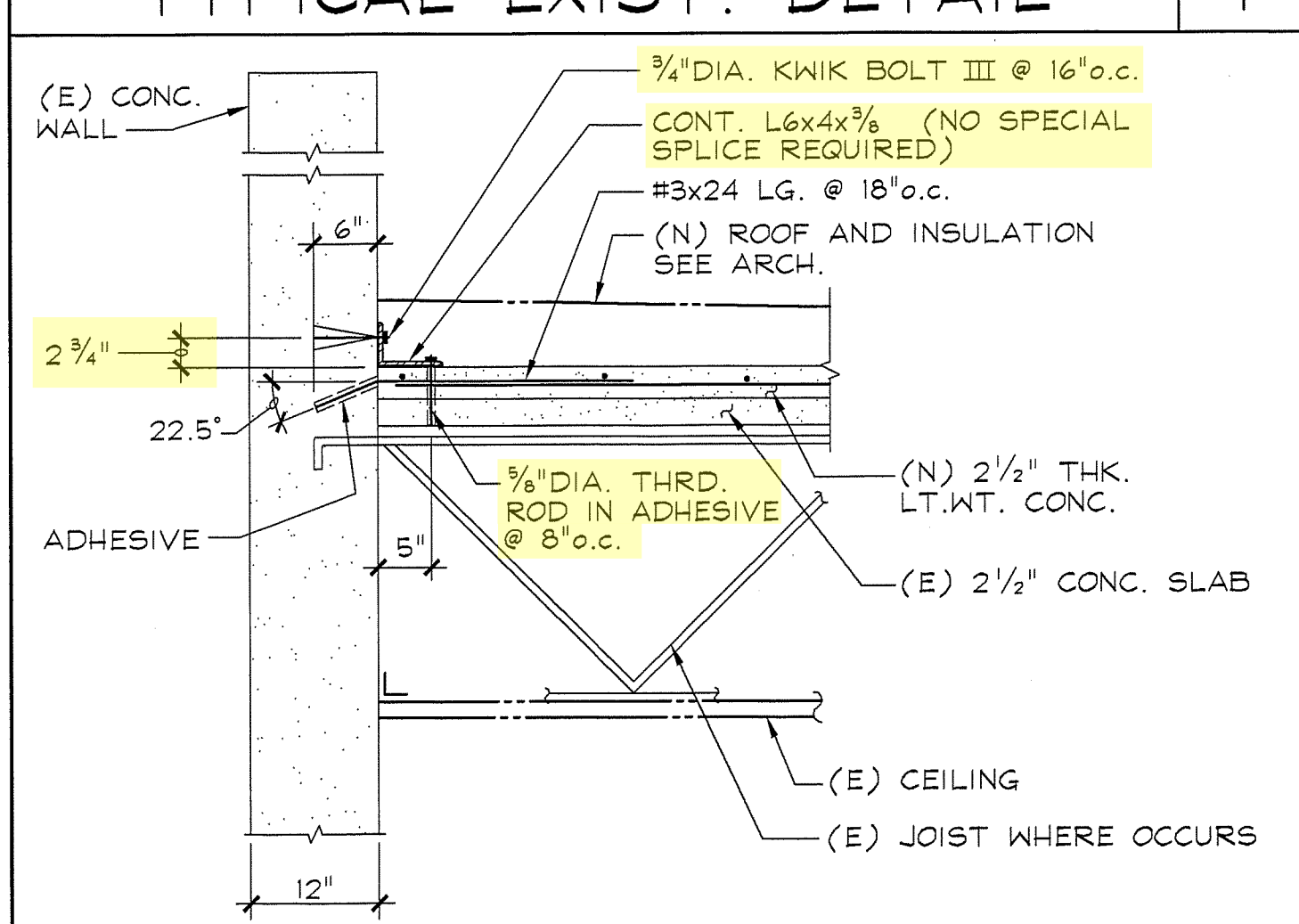
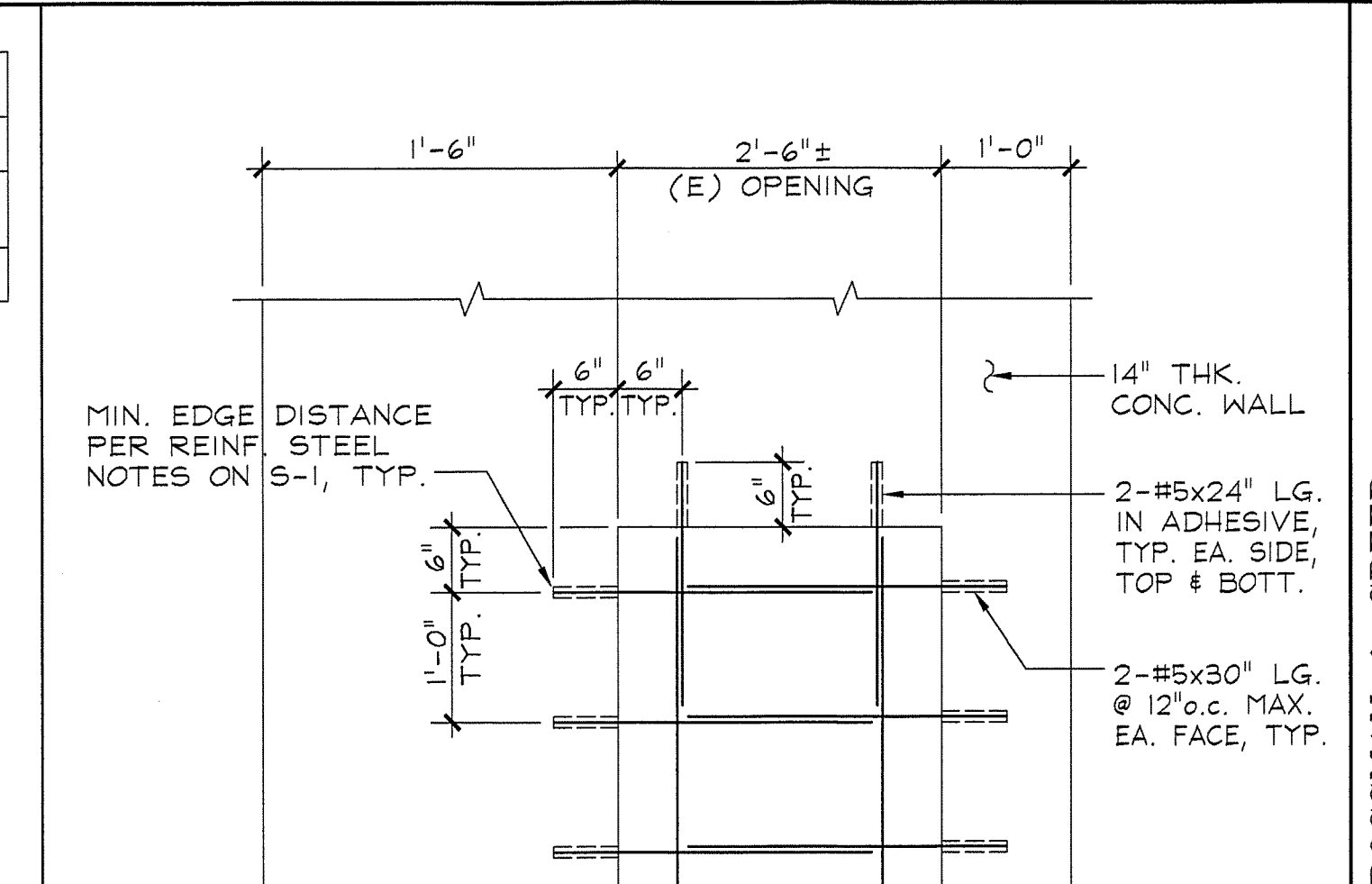
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TYP. EXIST. BEARING ON STL. BEAMS



ORIGINAL DETAIL - FOR INFO. ONLY  
TYP. EXIST. BEARING ON CONC. WALLS



ORIGINAL DETAIL - FOR INFO. ONLY  
TYP. EXIST. BASE PLATE DETAIL



BASE PLATE SCHEDULE	
TYPICAL	2"x20"x20"
AT GRID 7 & 10	2 1/2"x21"x24"
AT 6H COL'S.	1 1/4"x11"x14"

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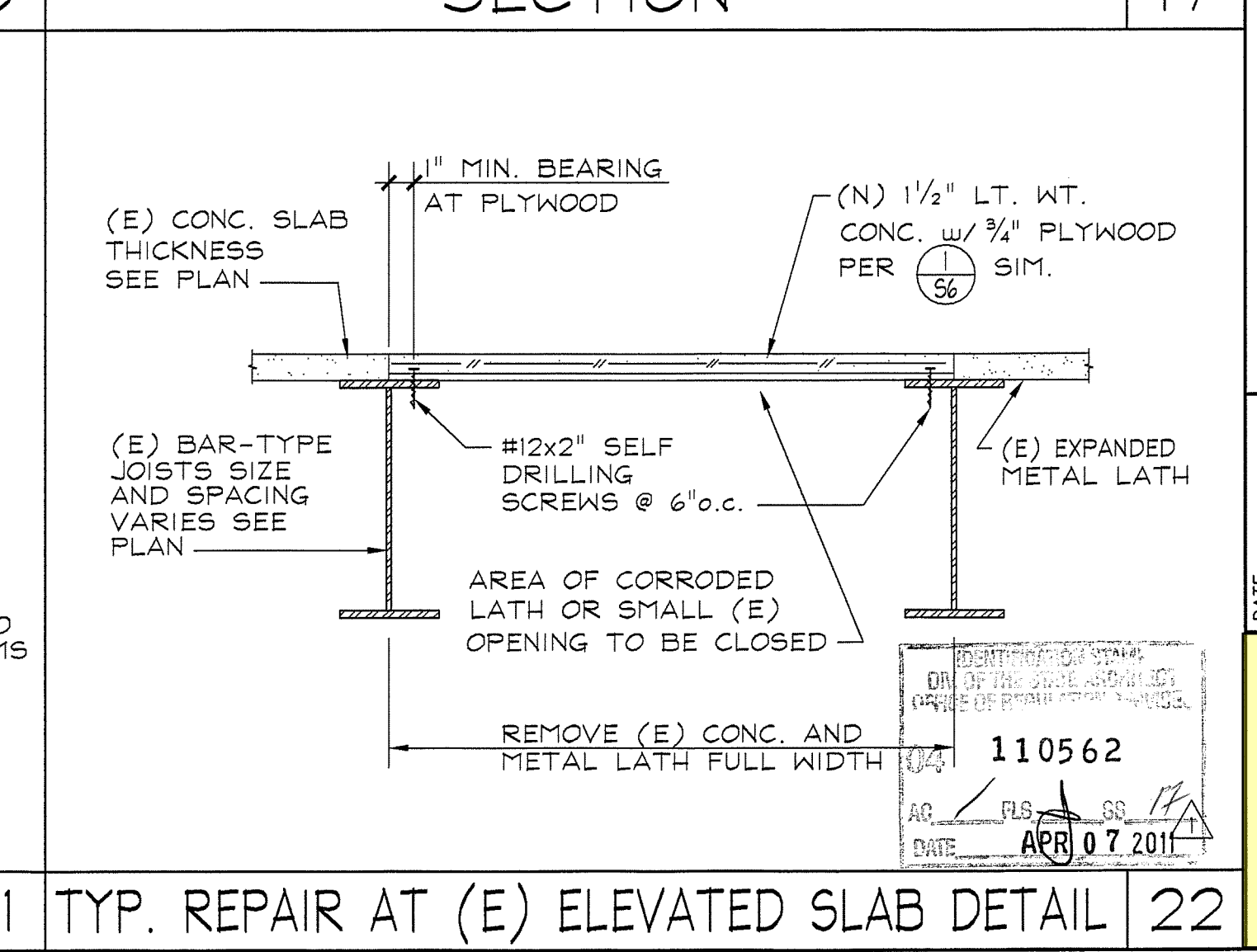
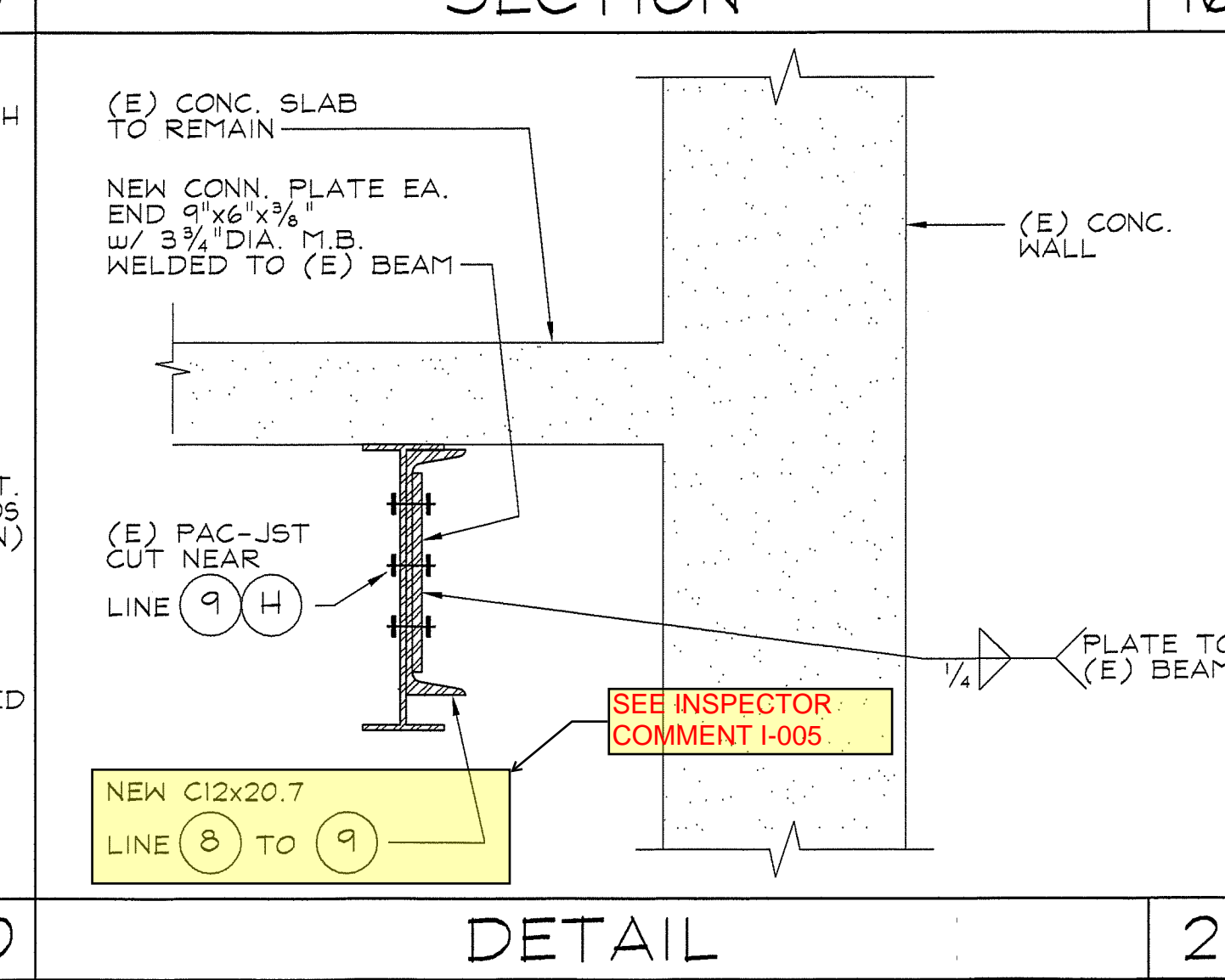
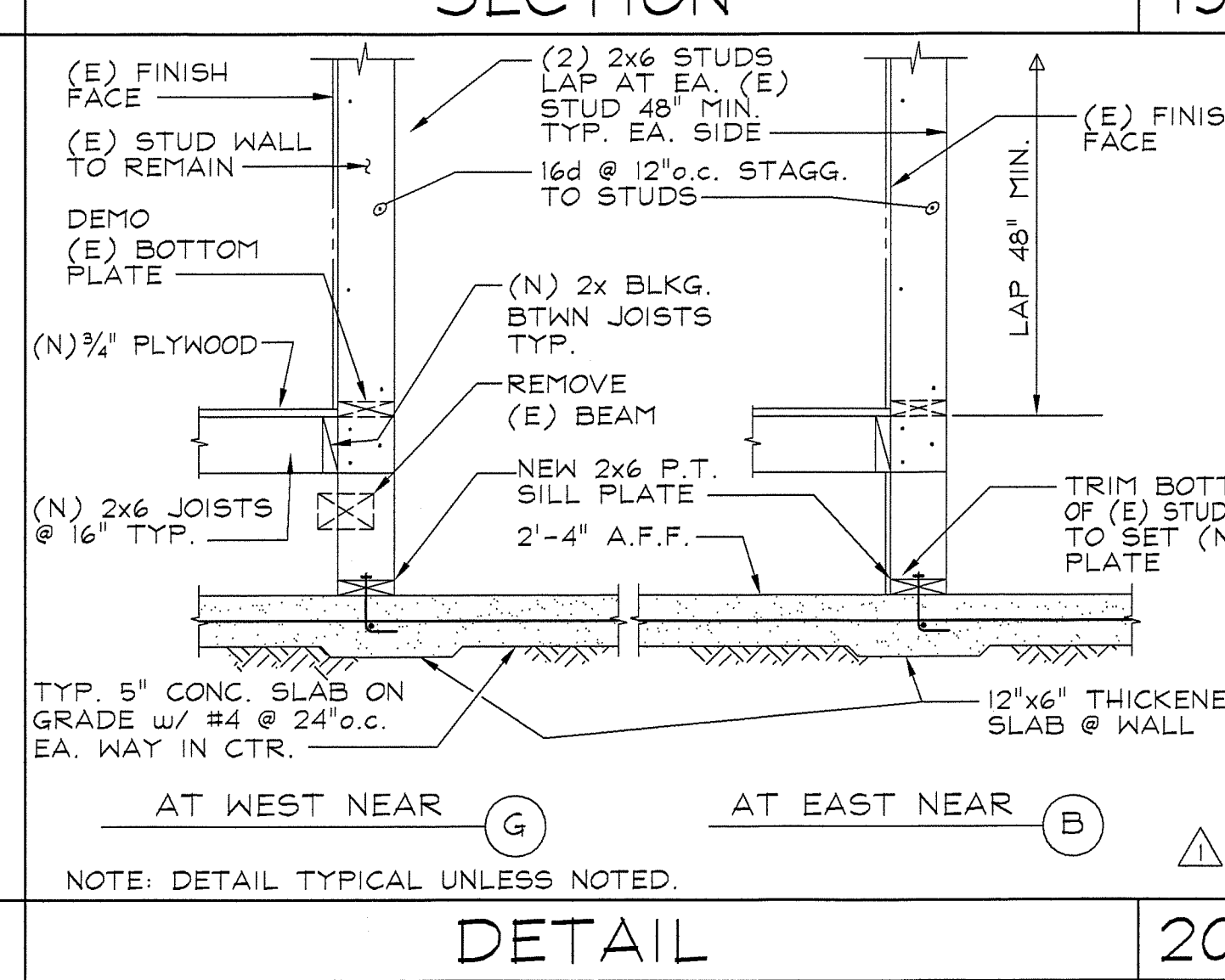
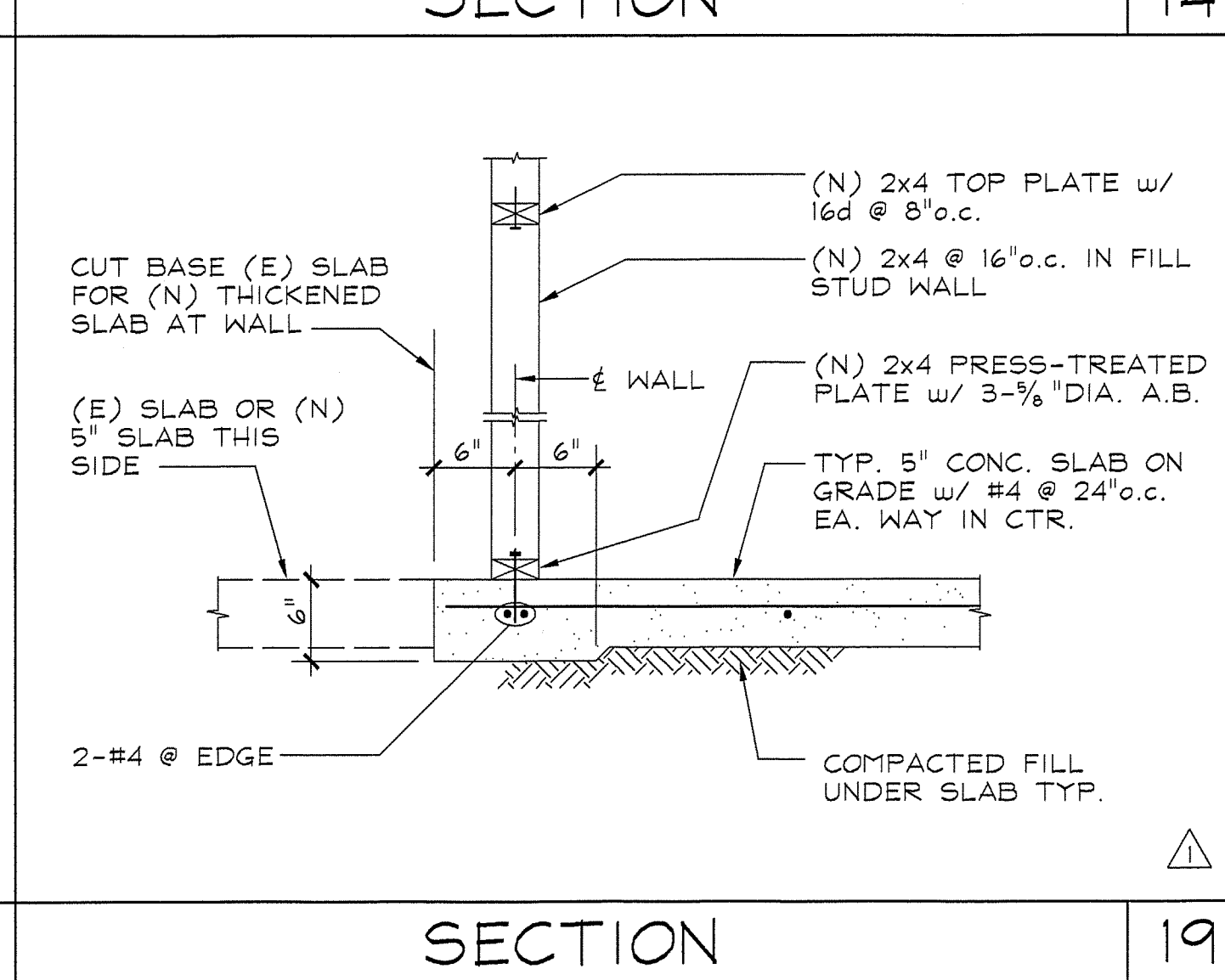
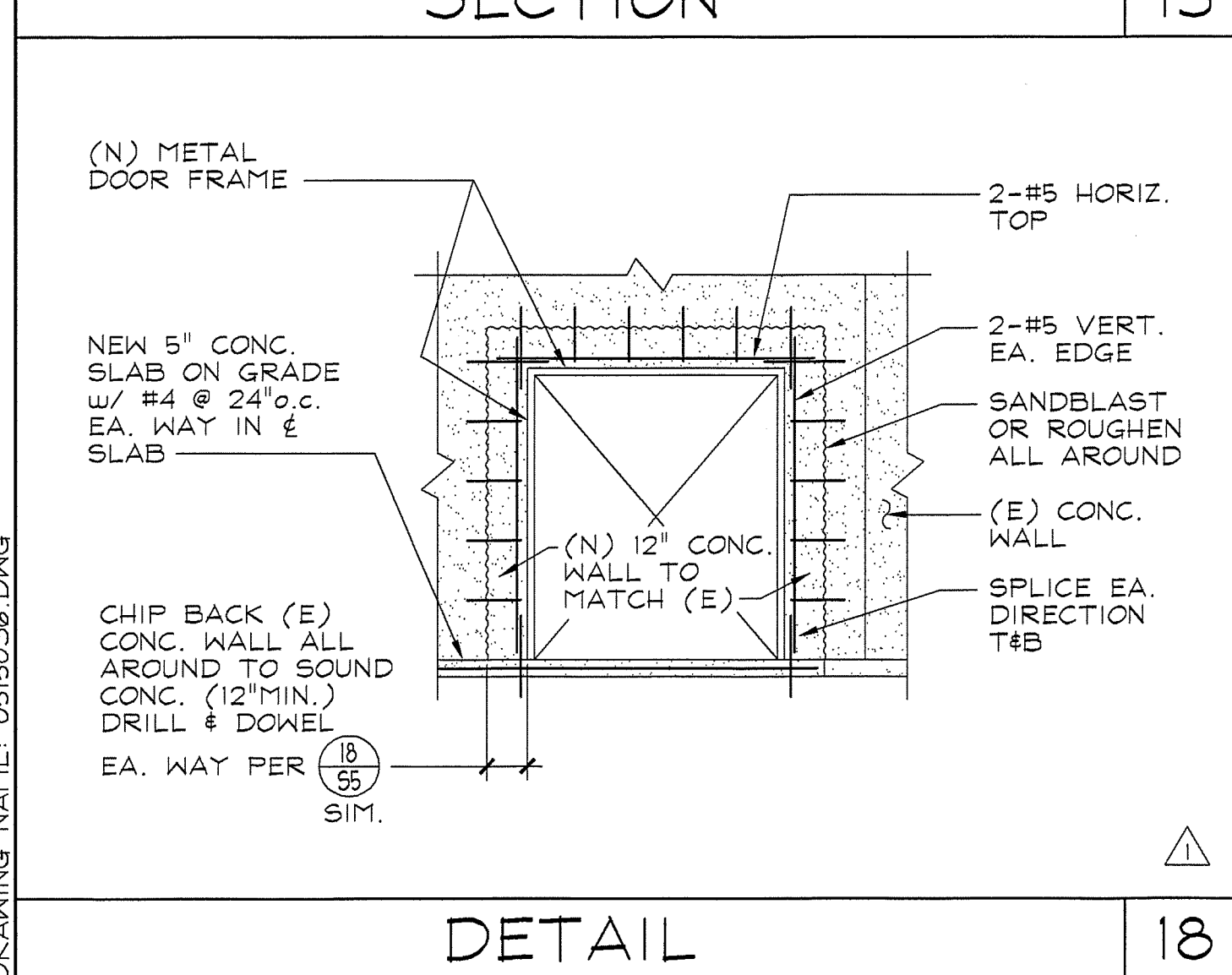
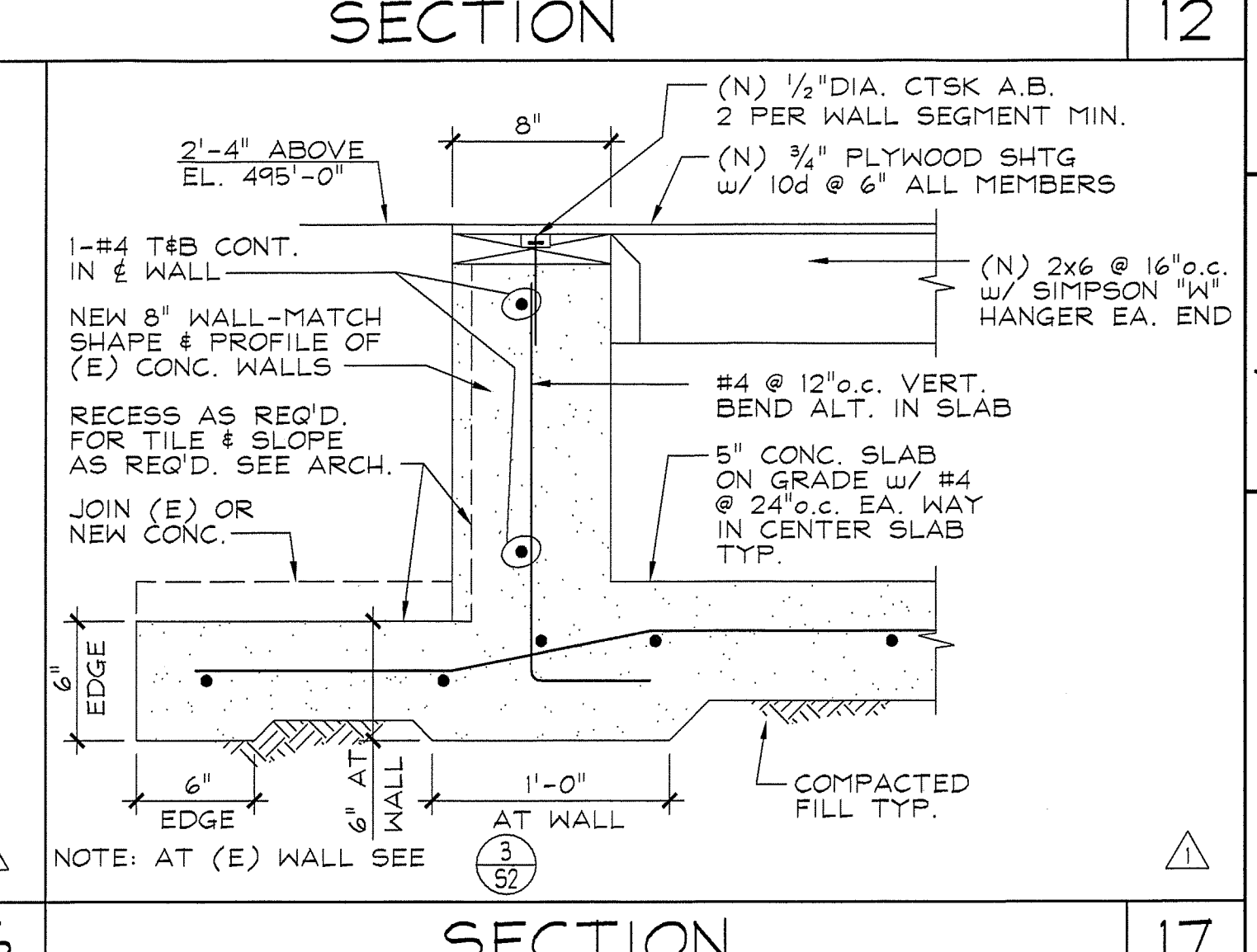
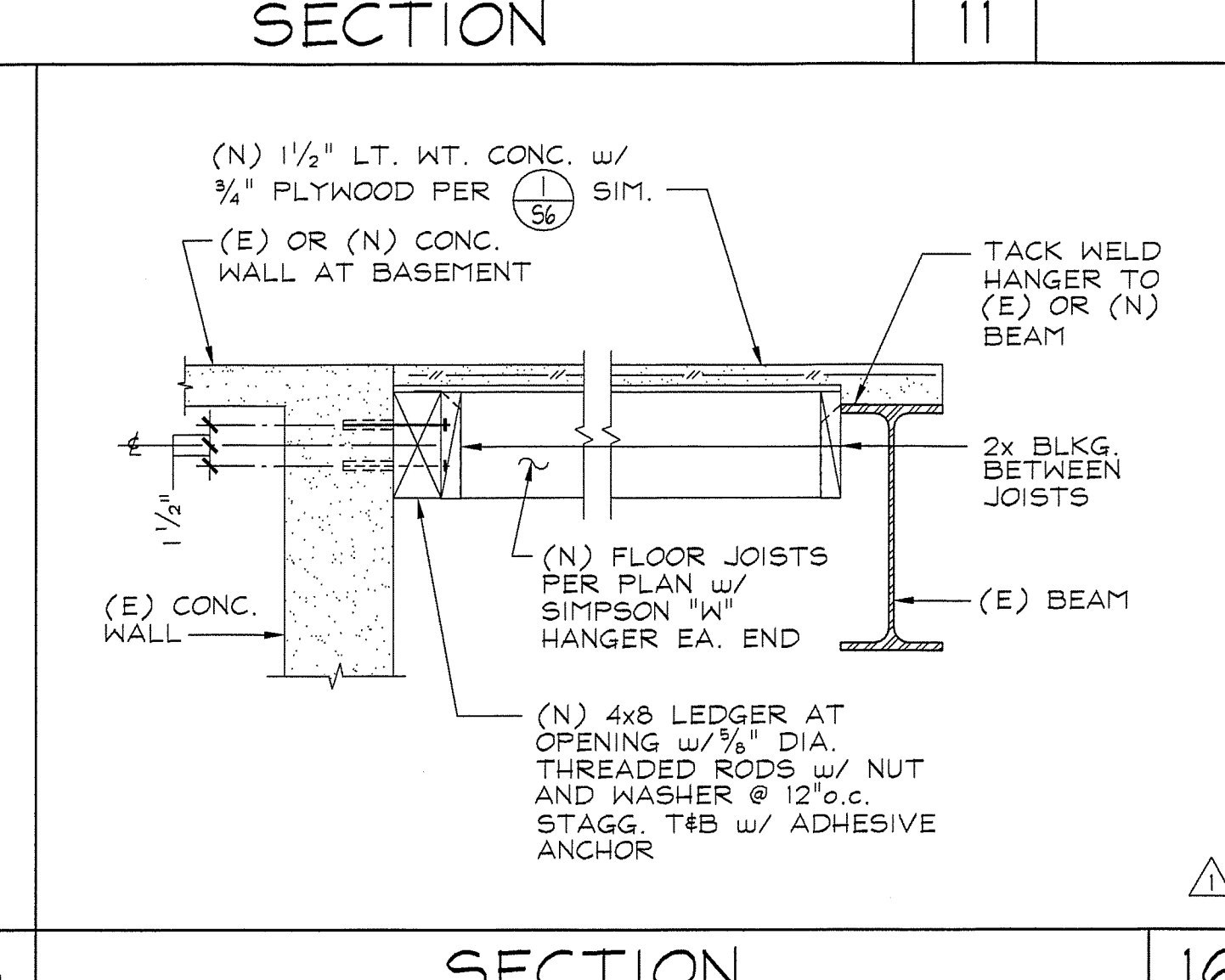
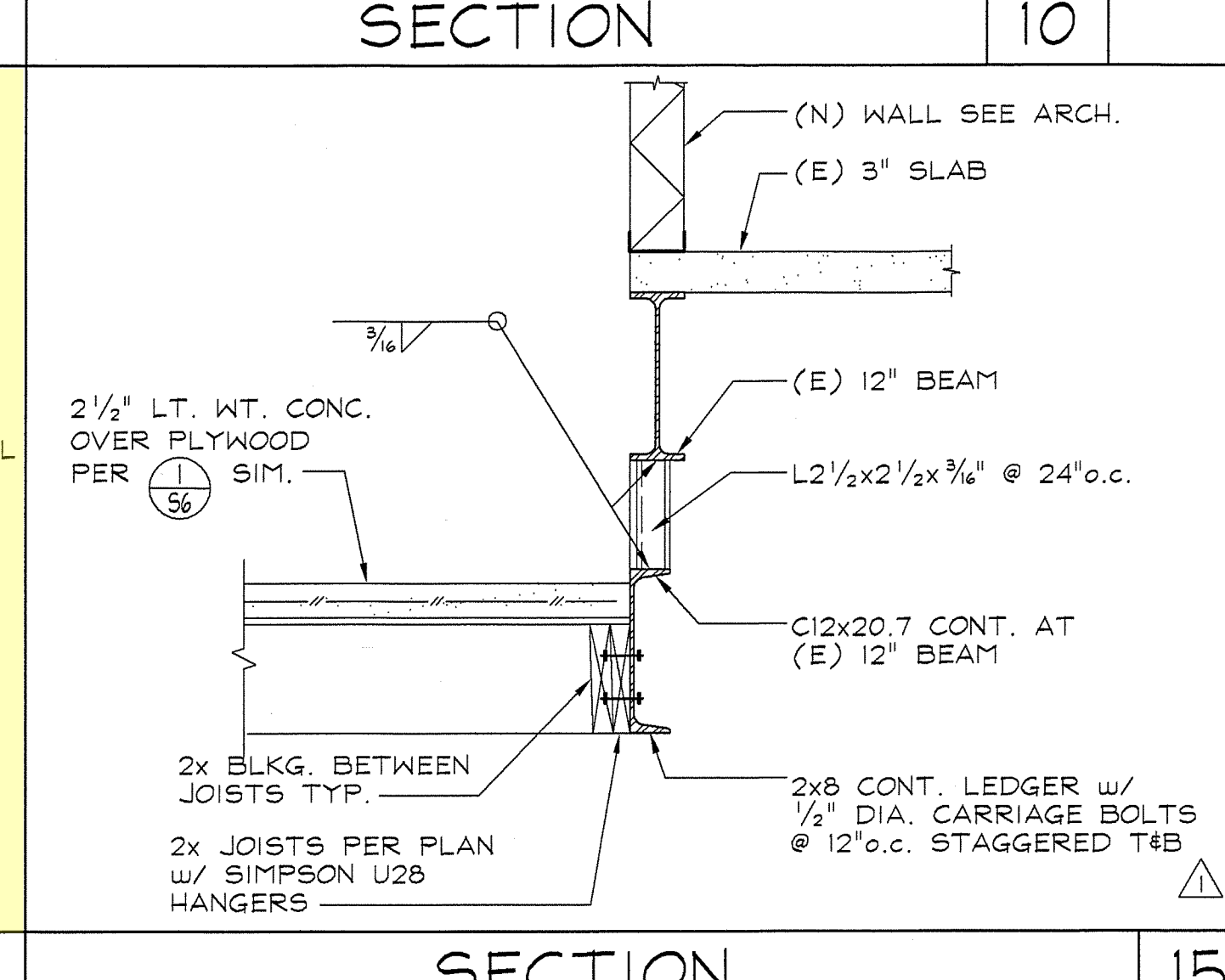
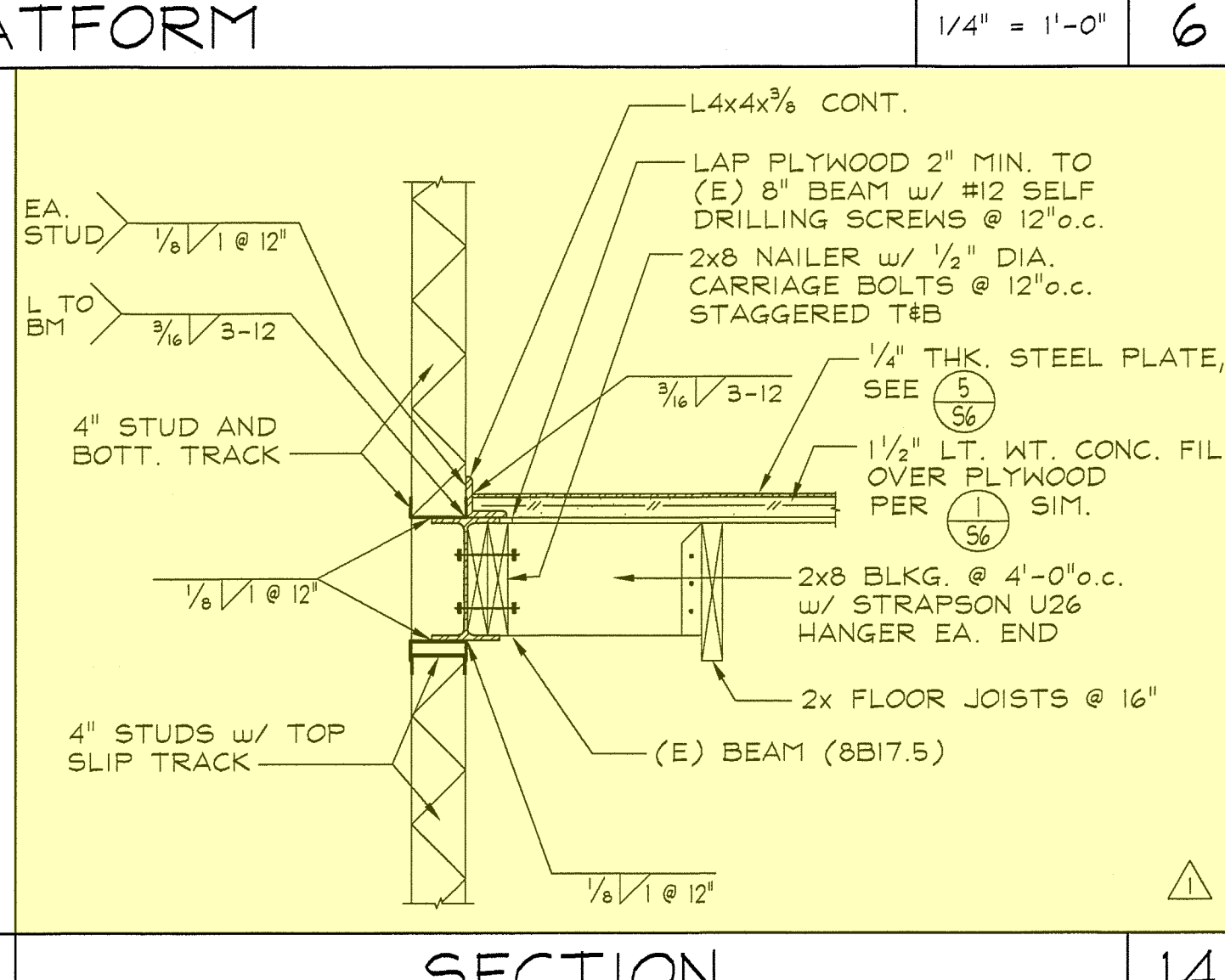
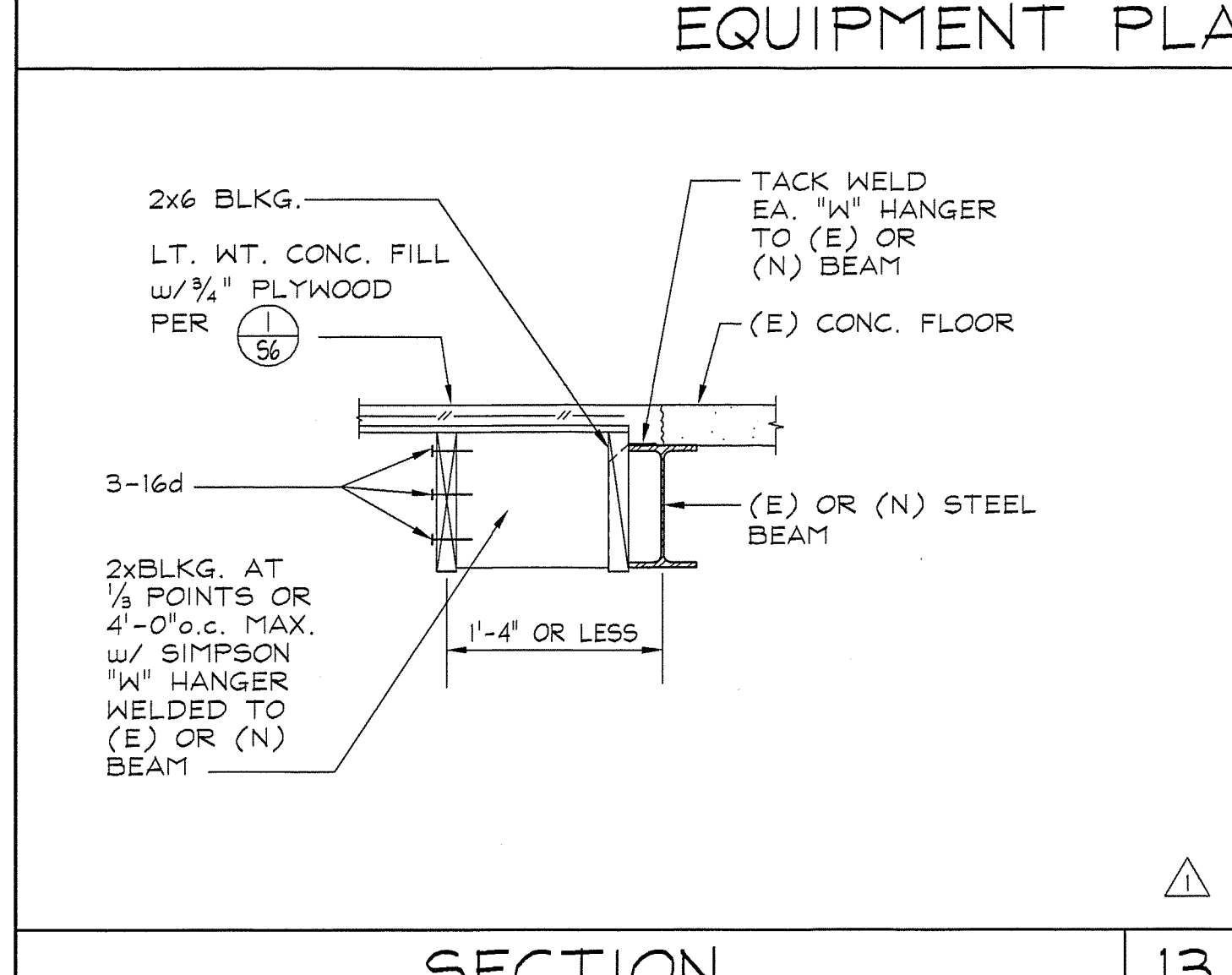
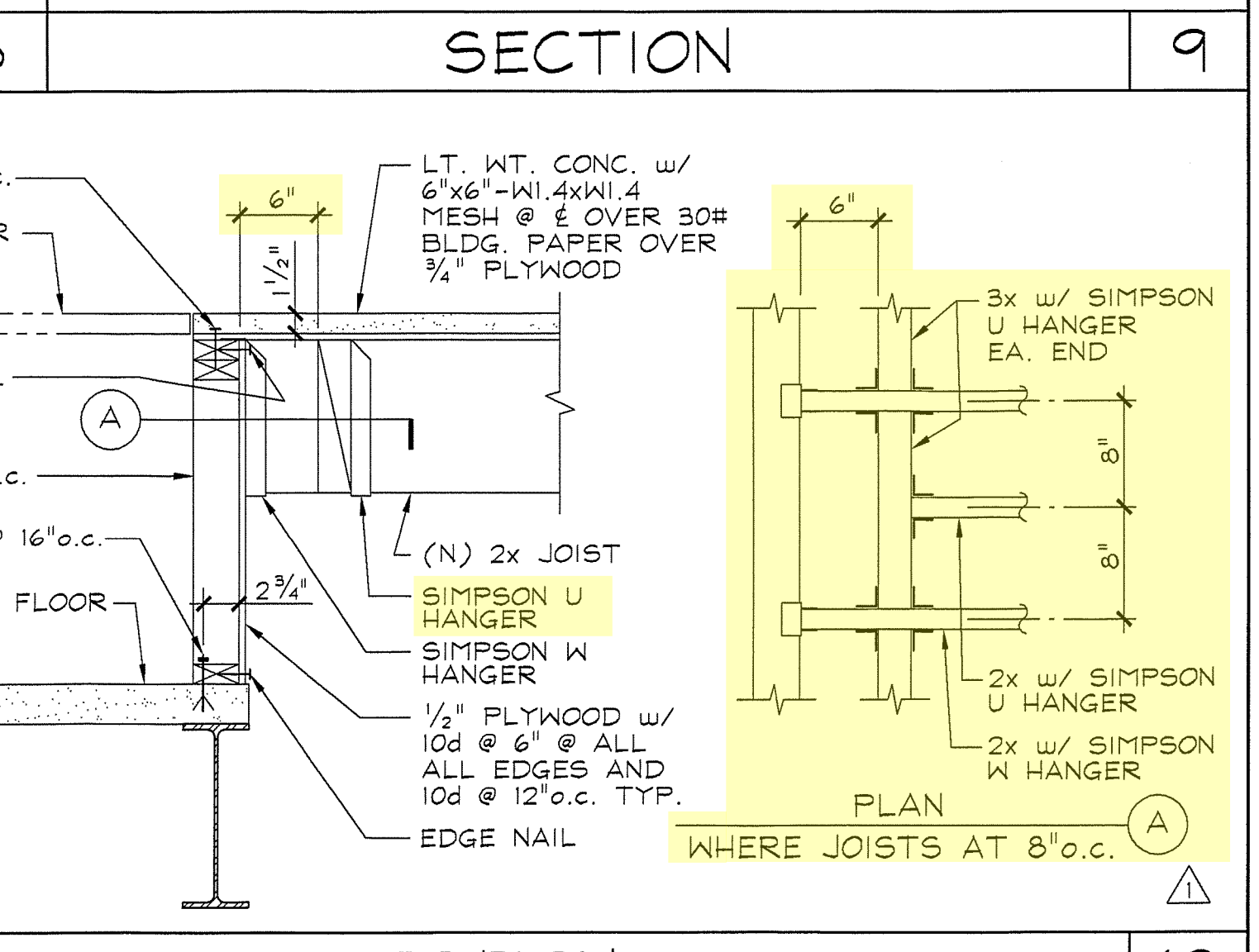
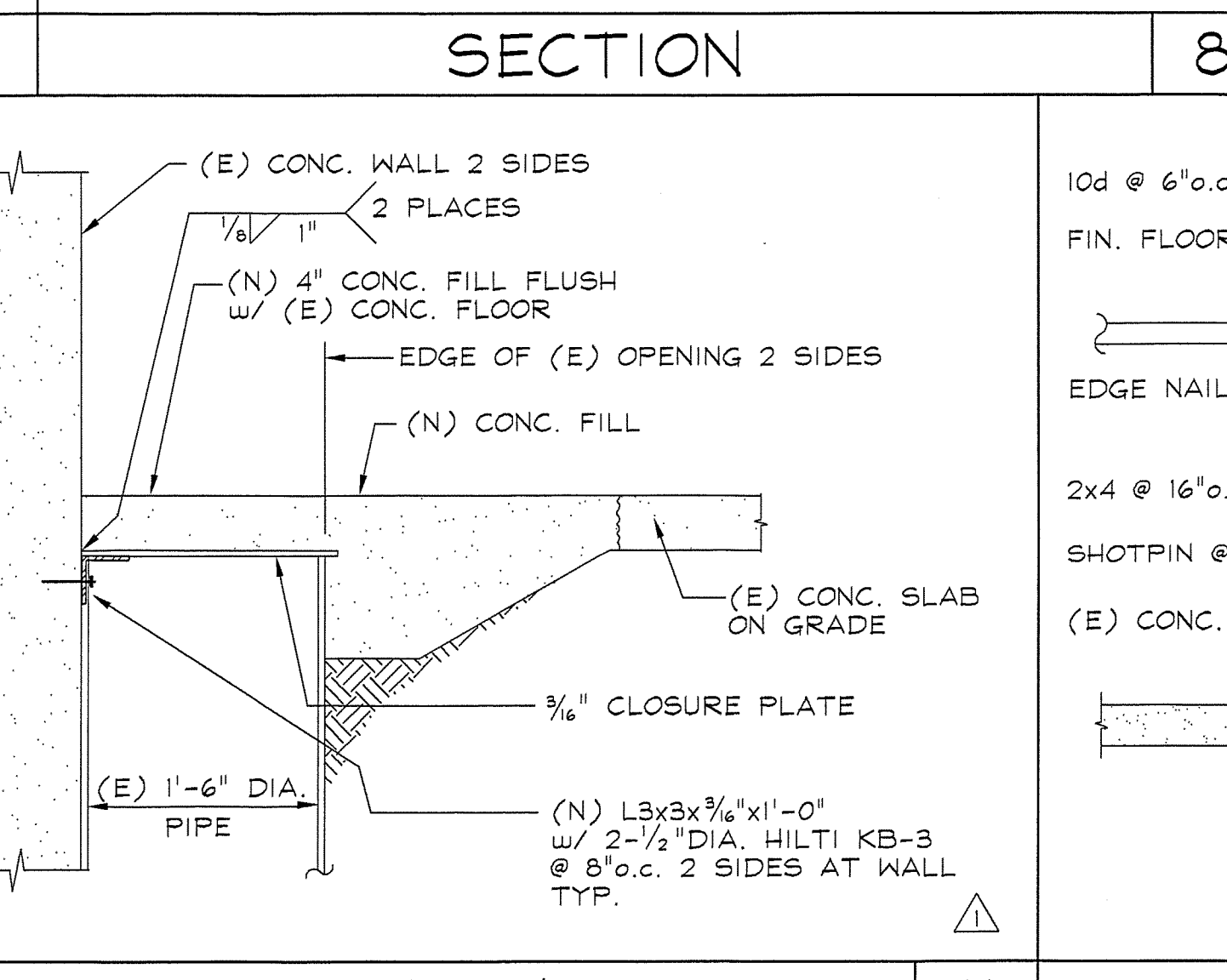
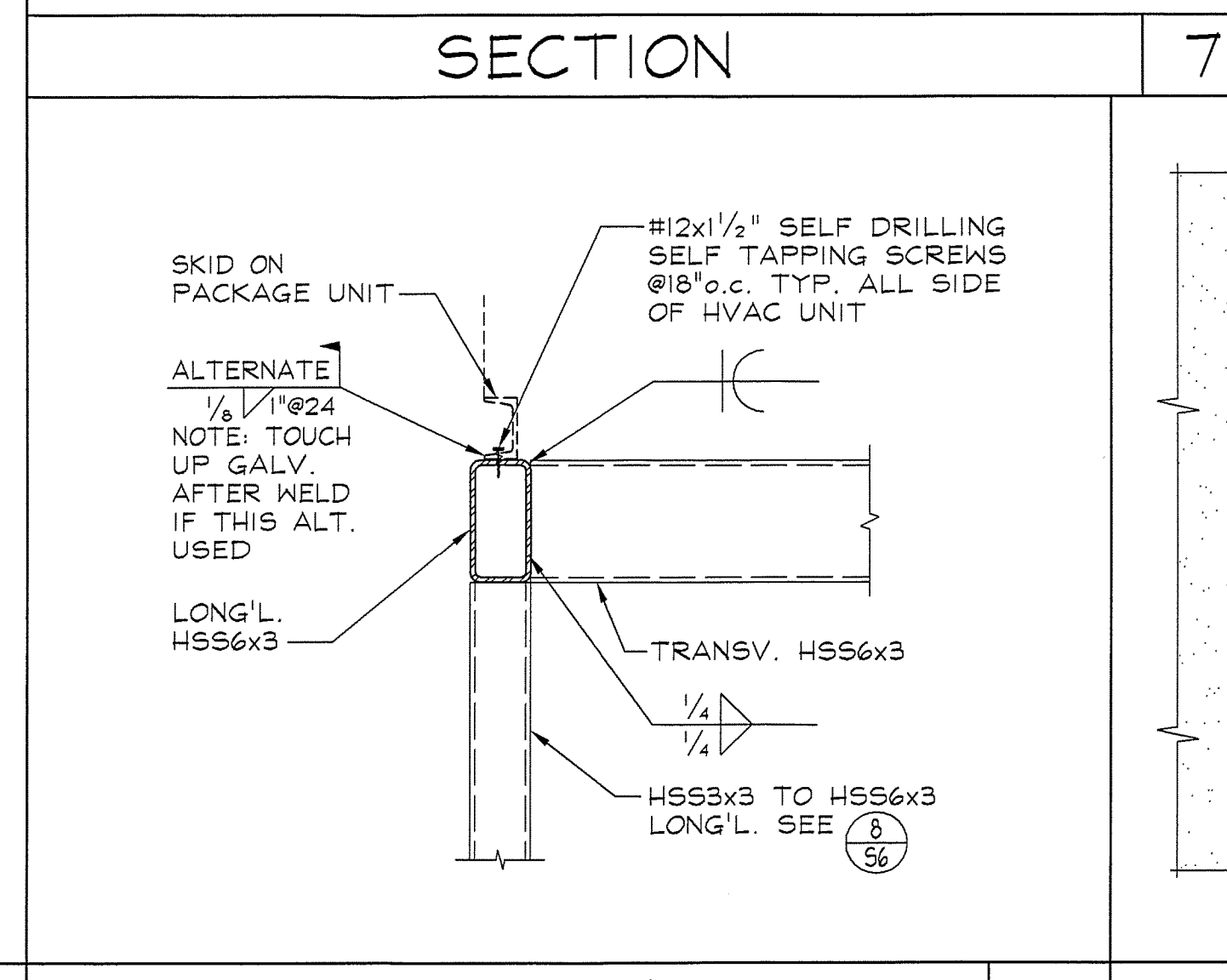
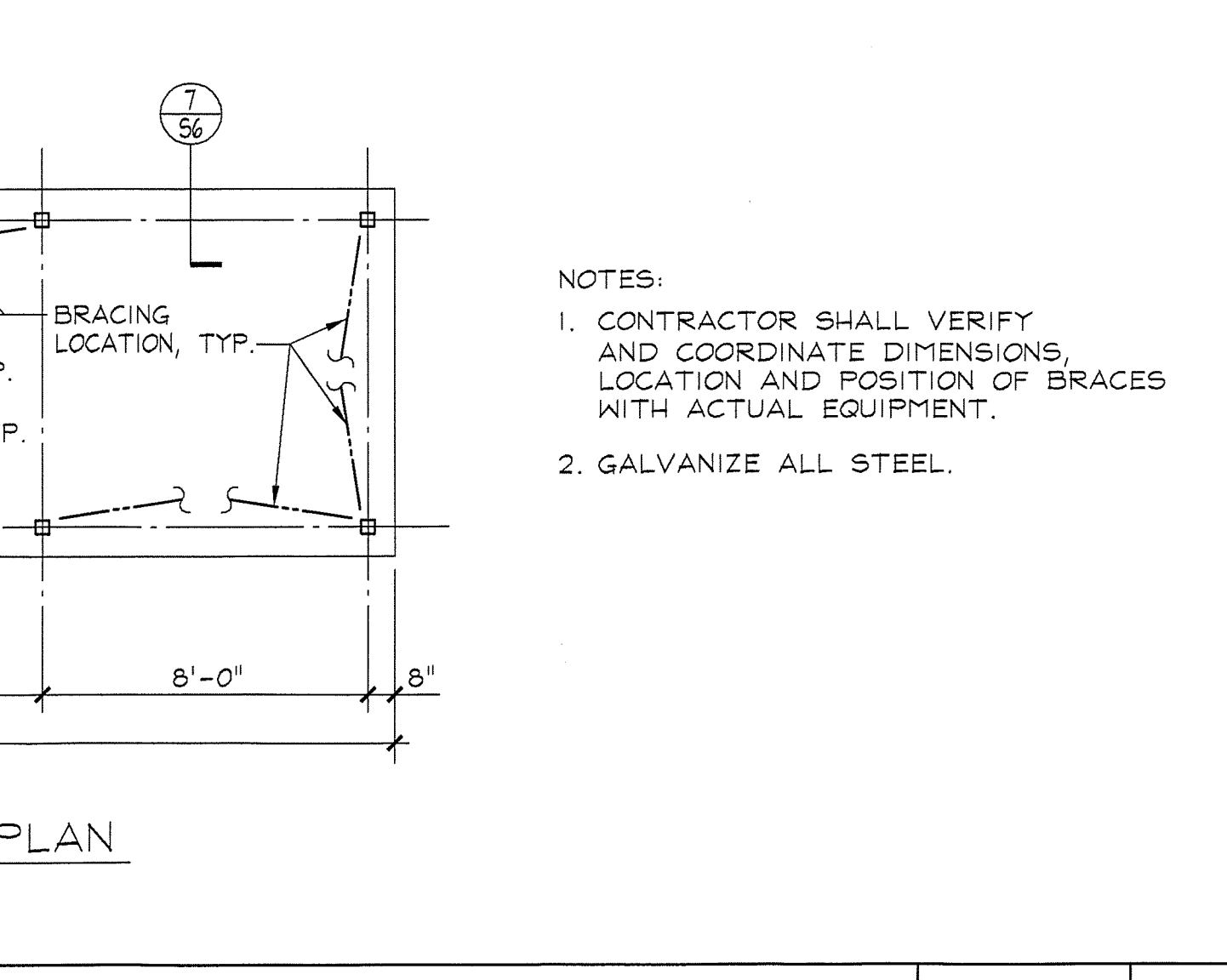
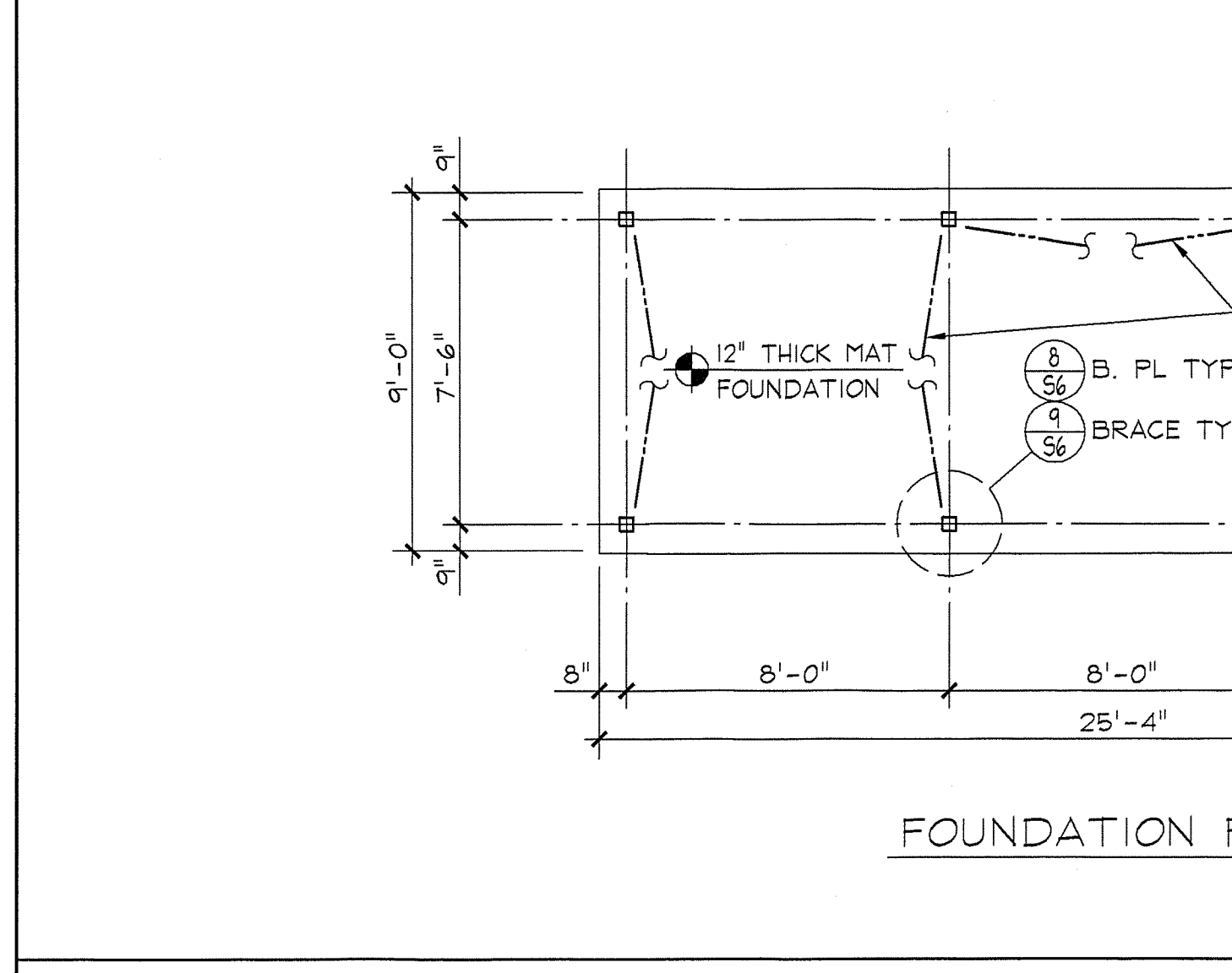
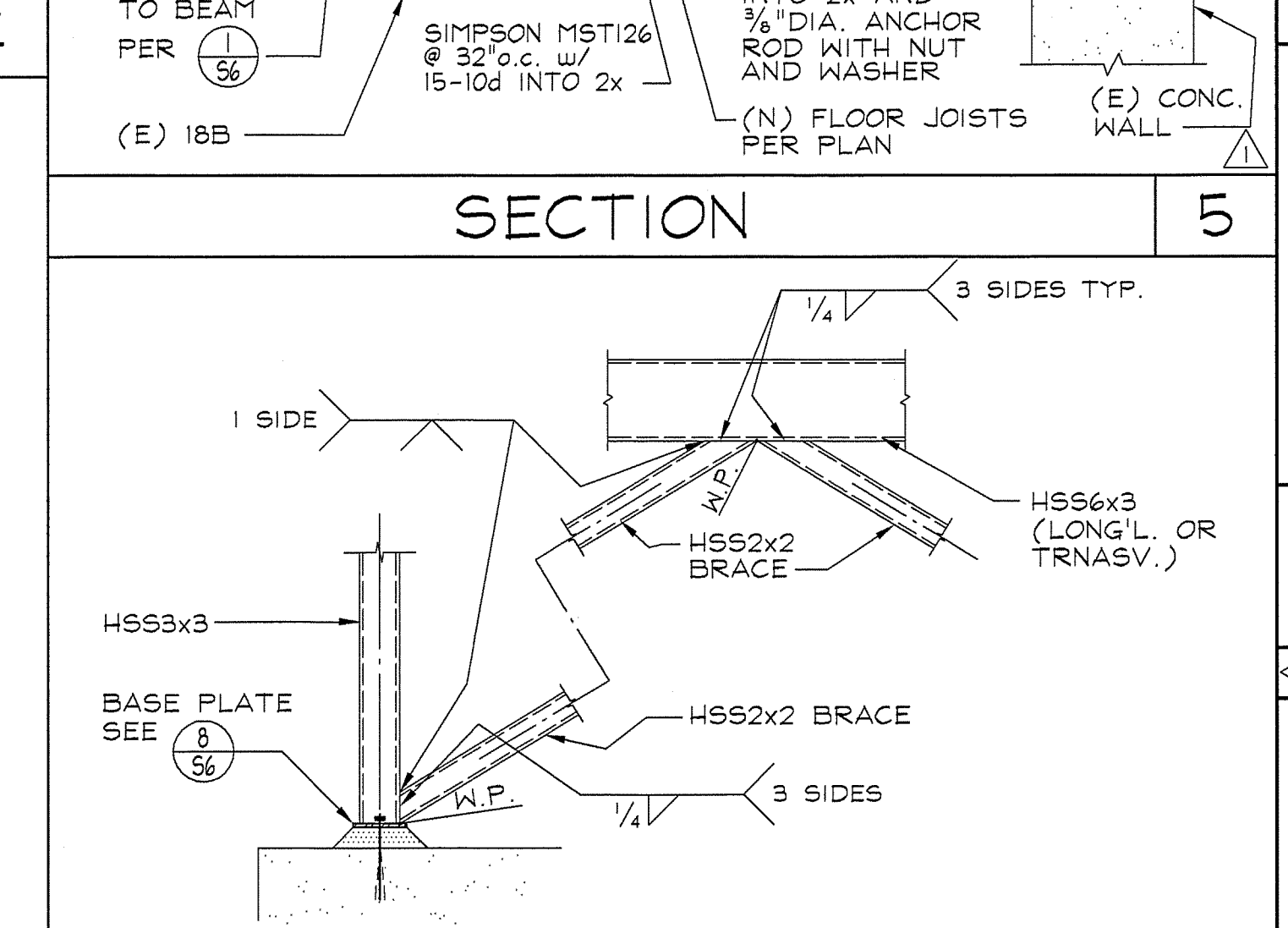
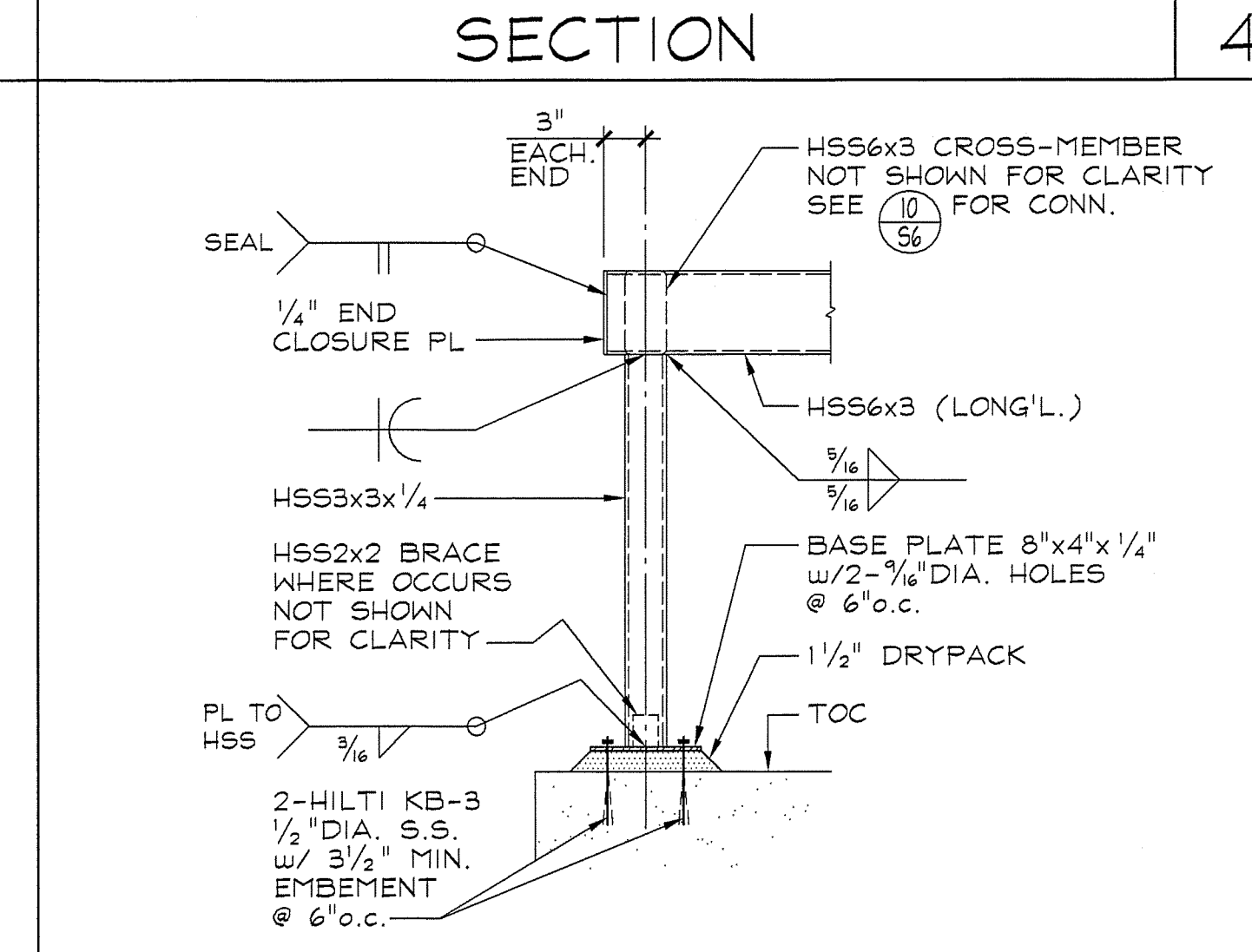
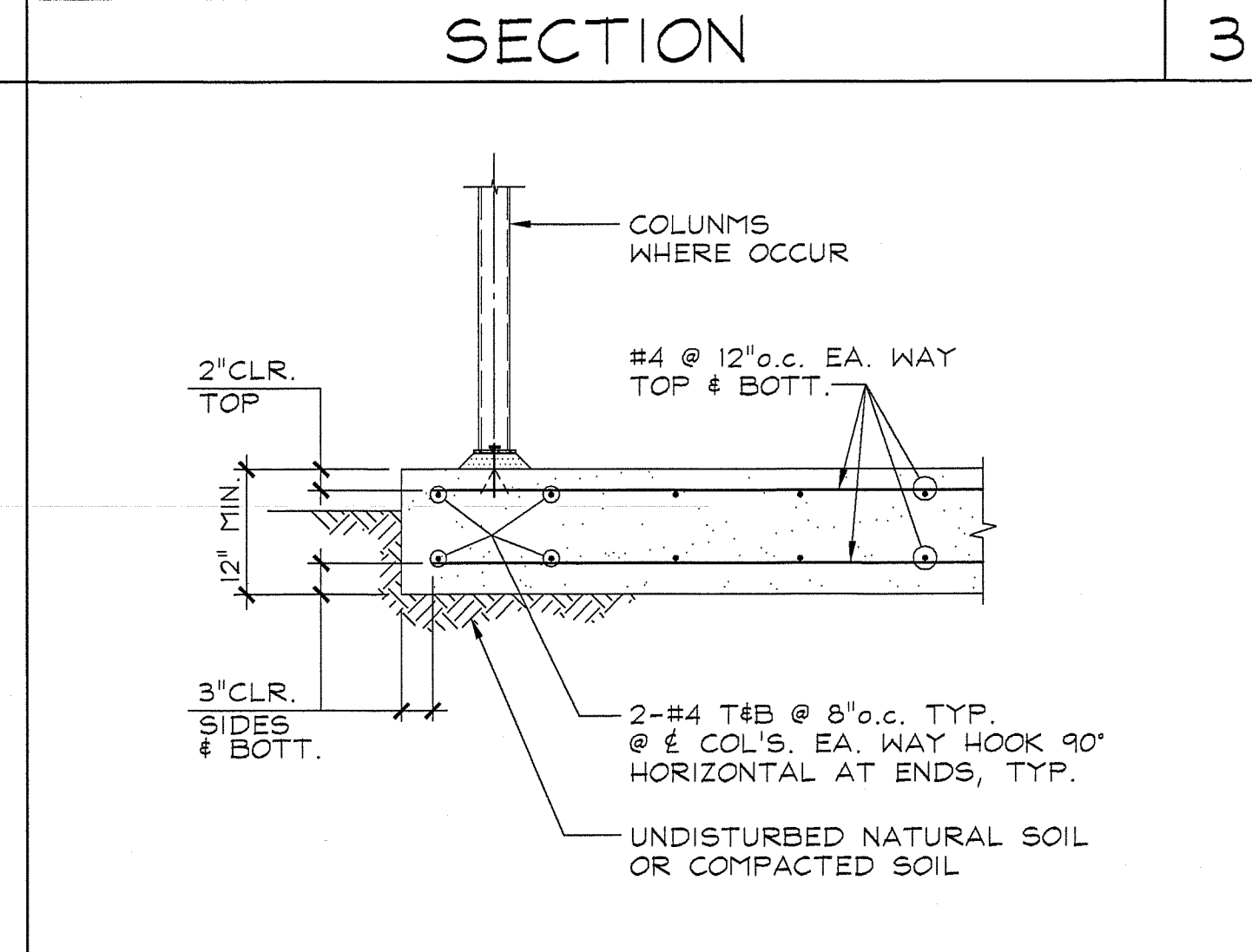
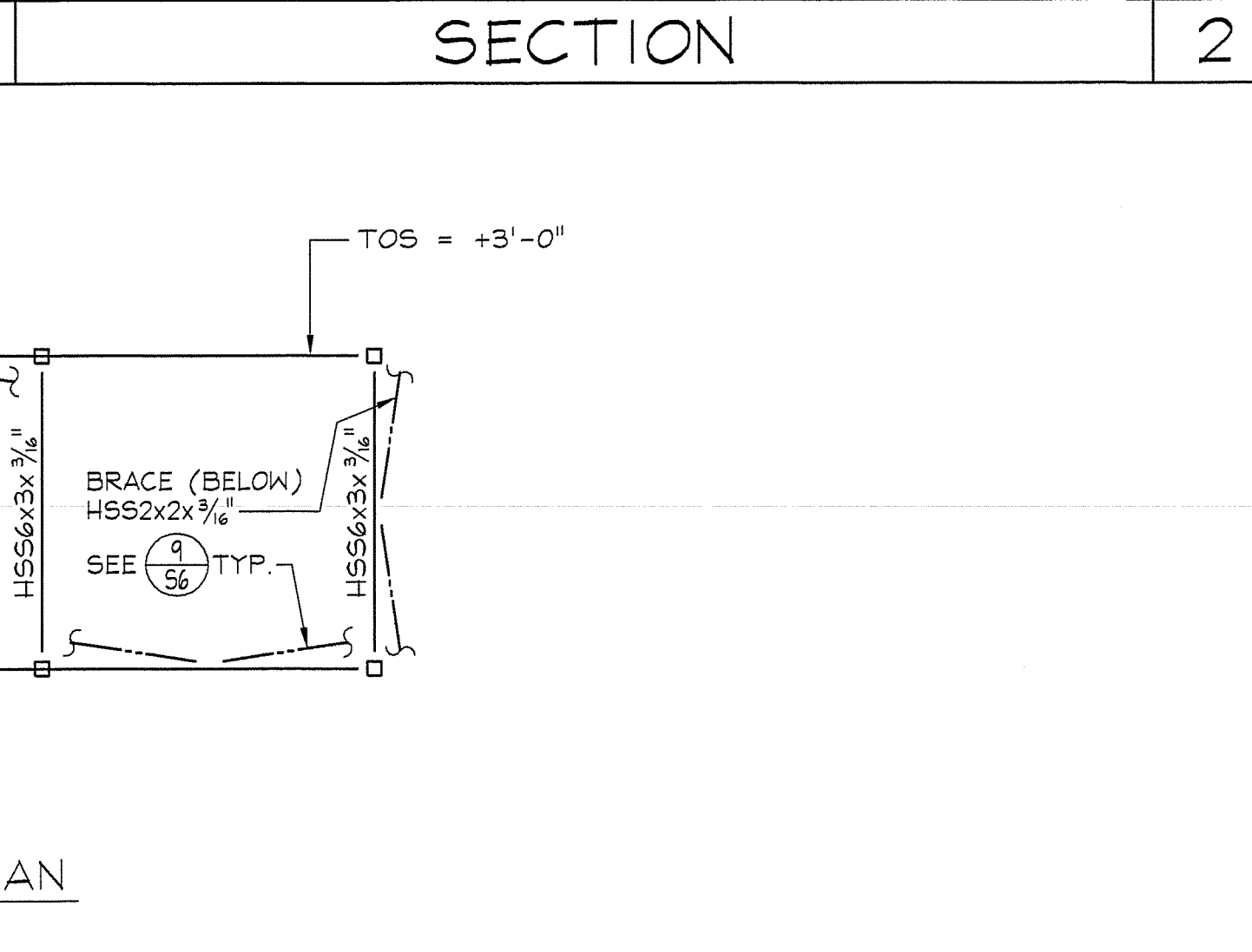
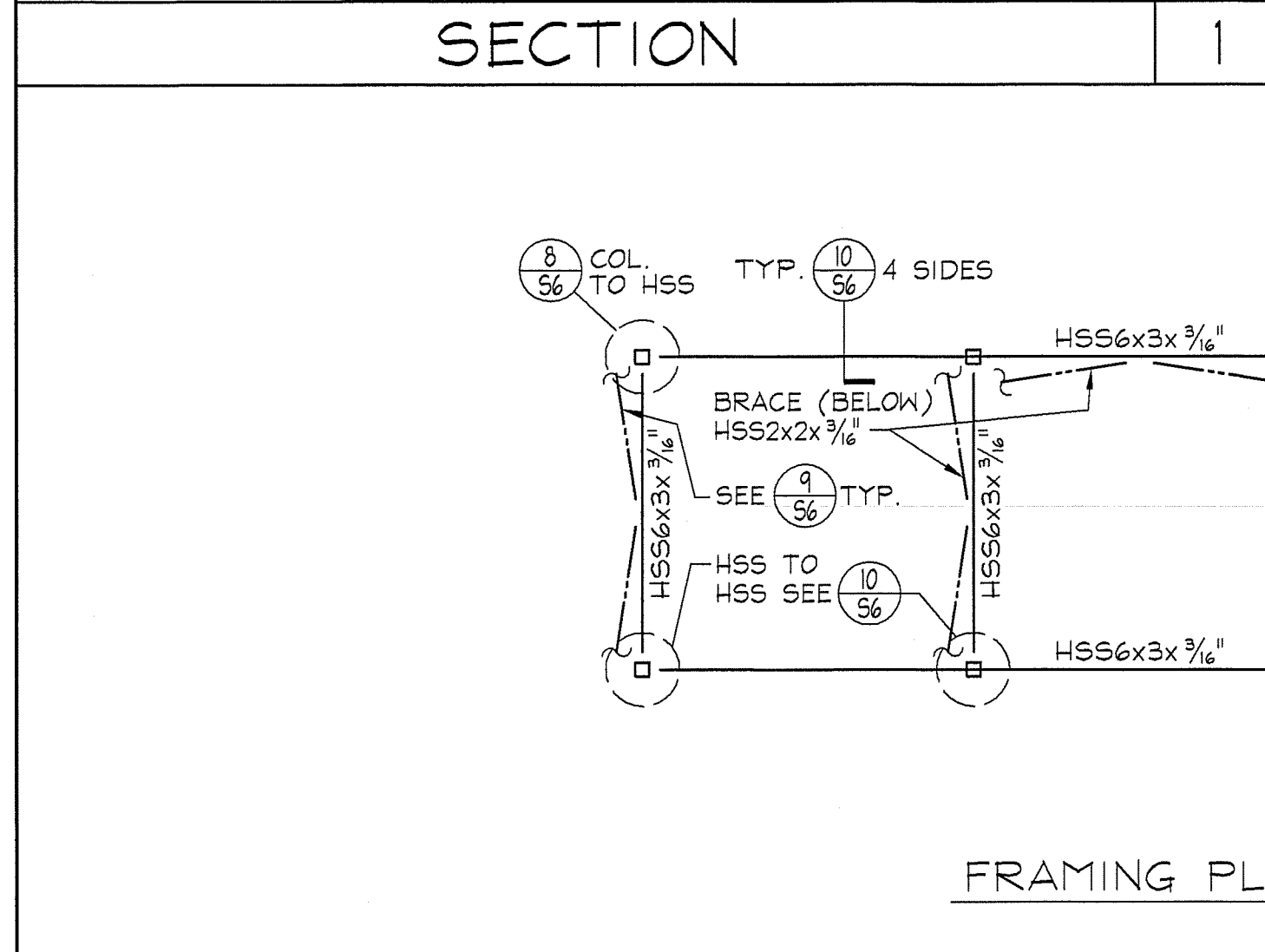
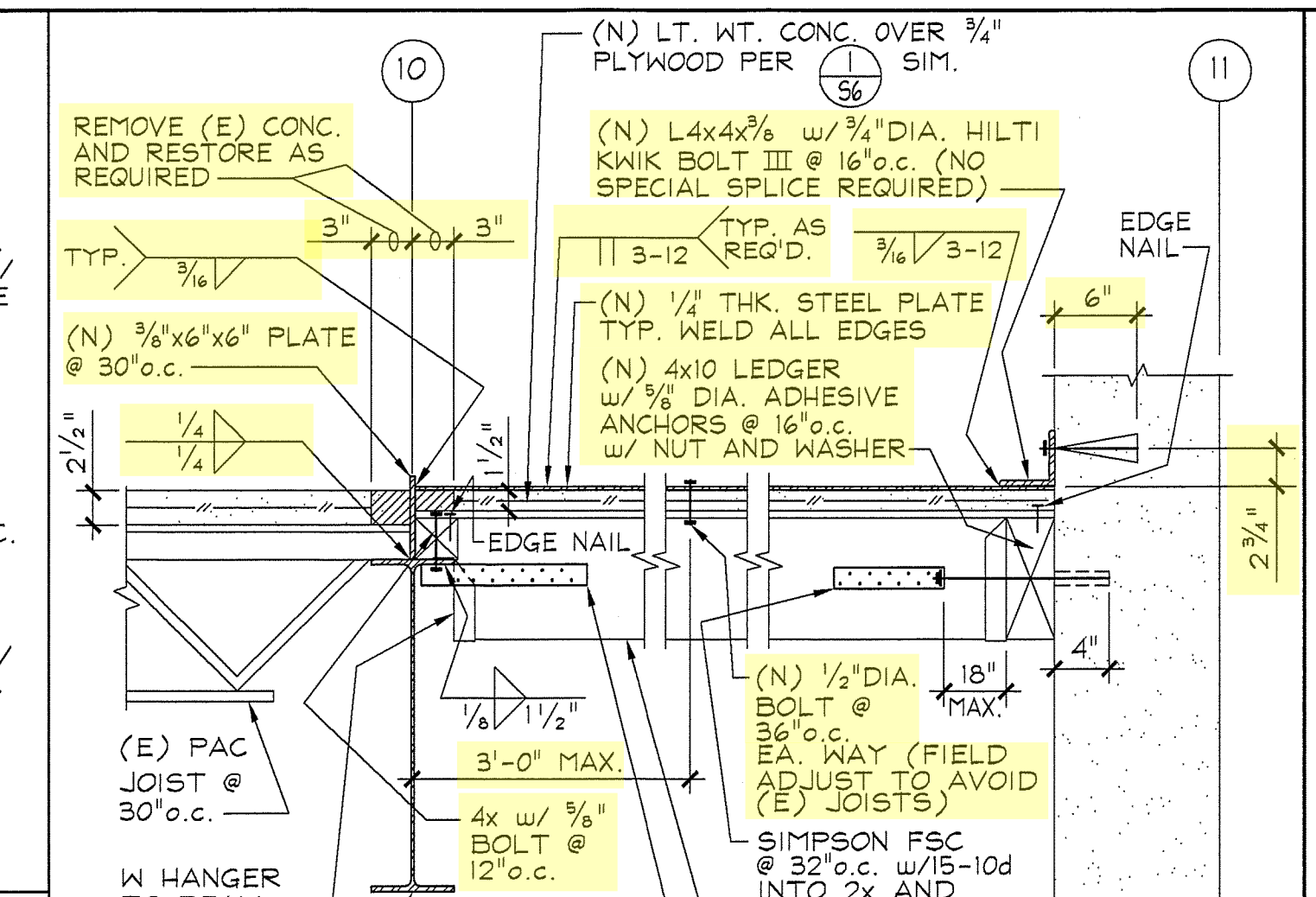
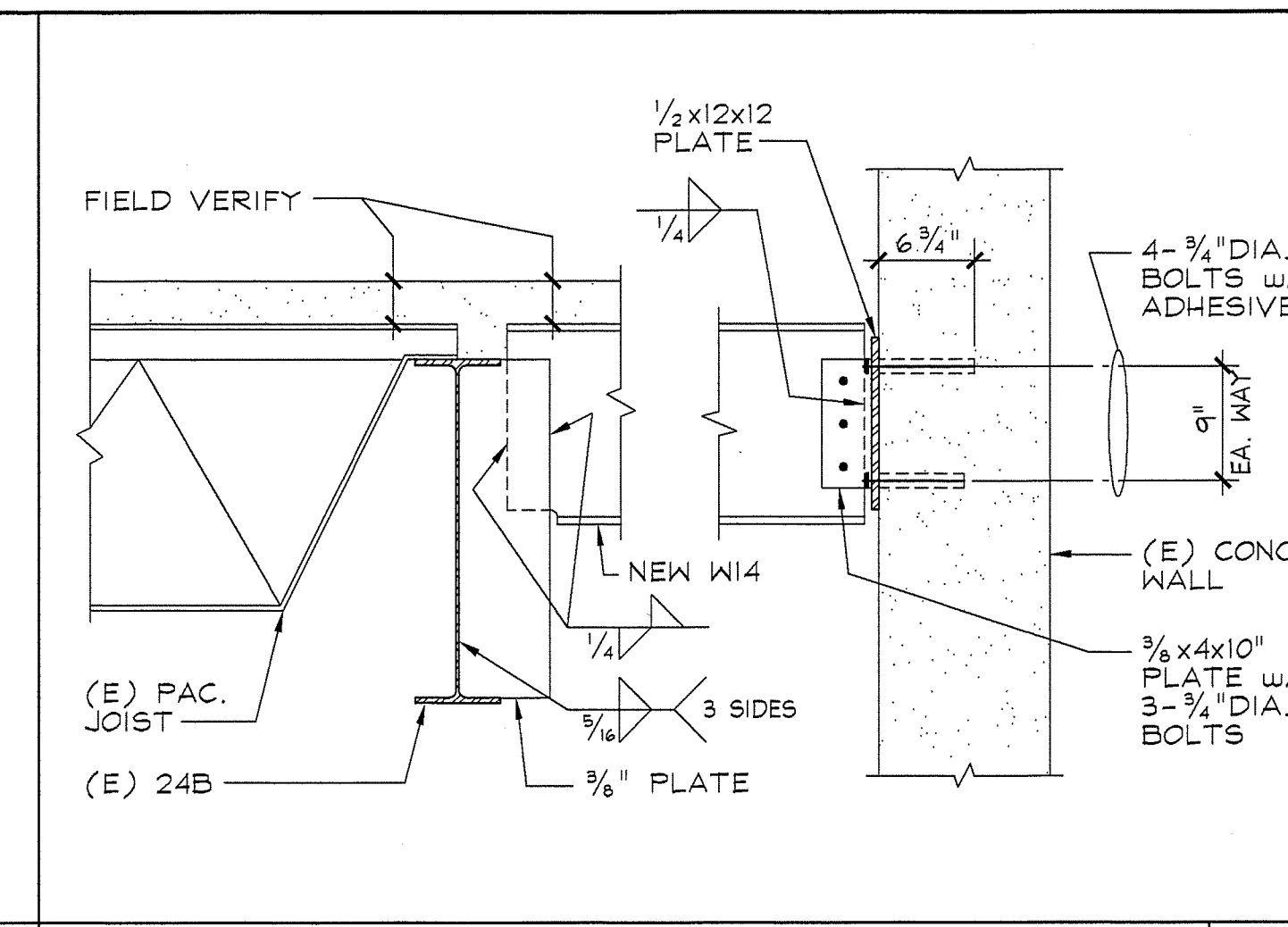
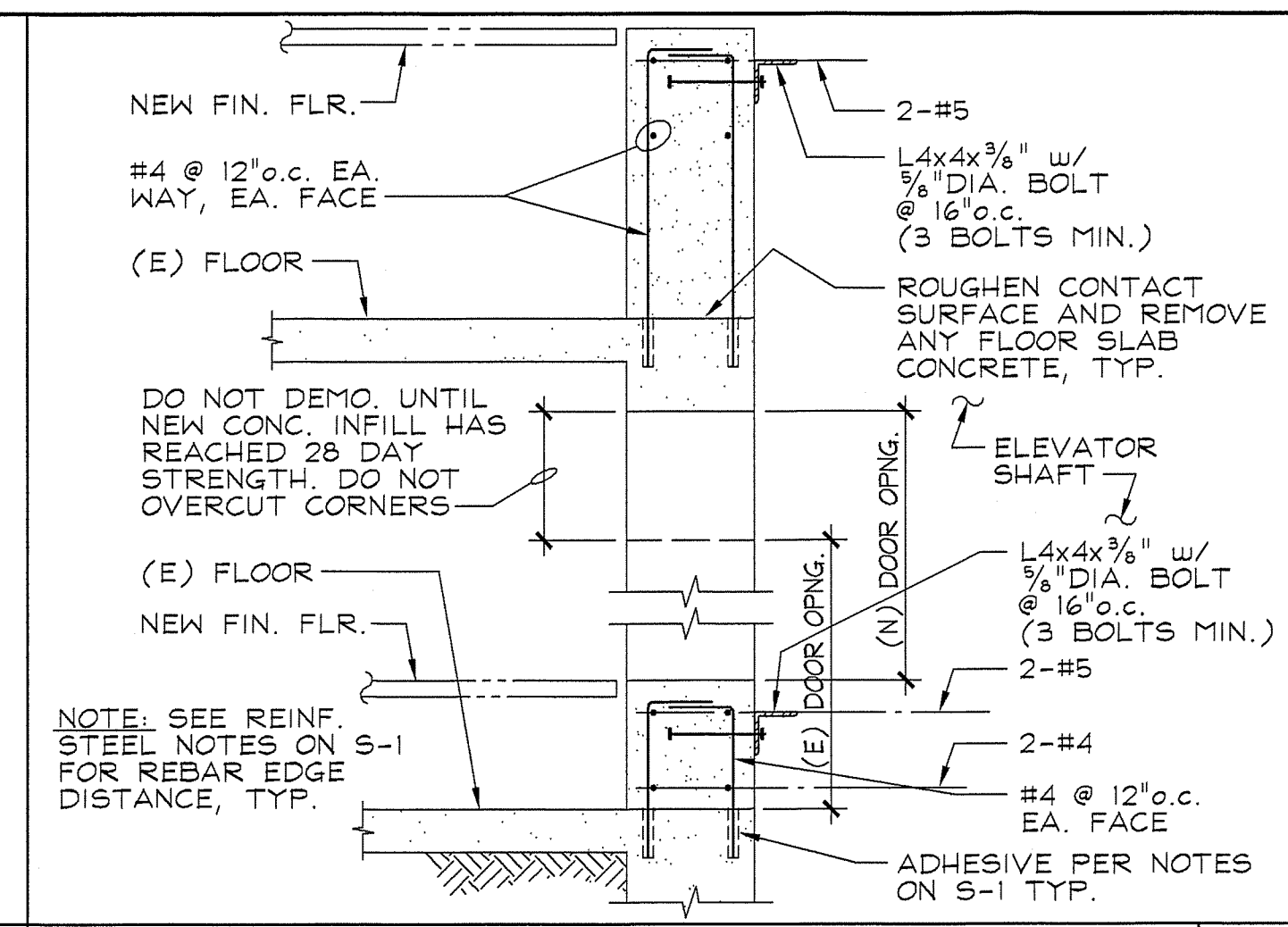
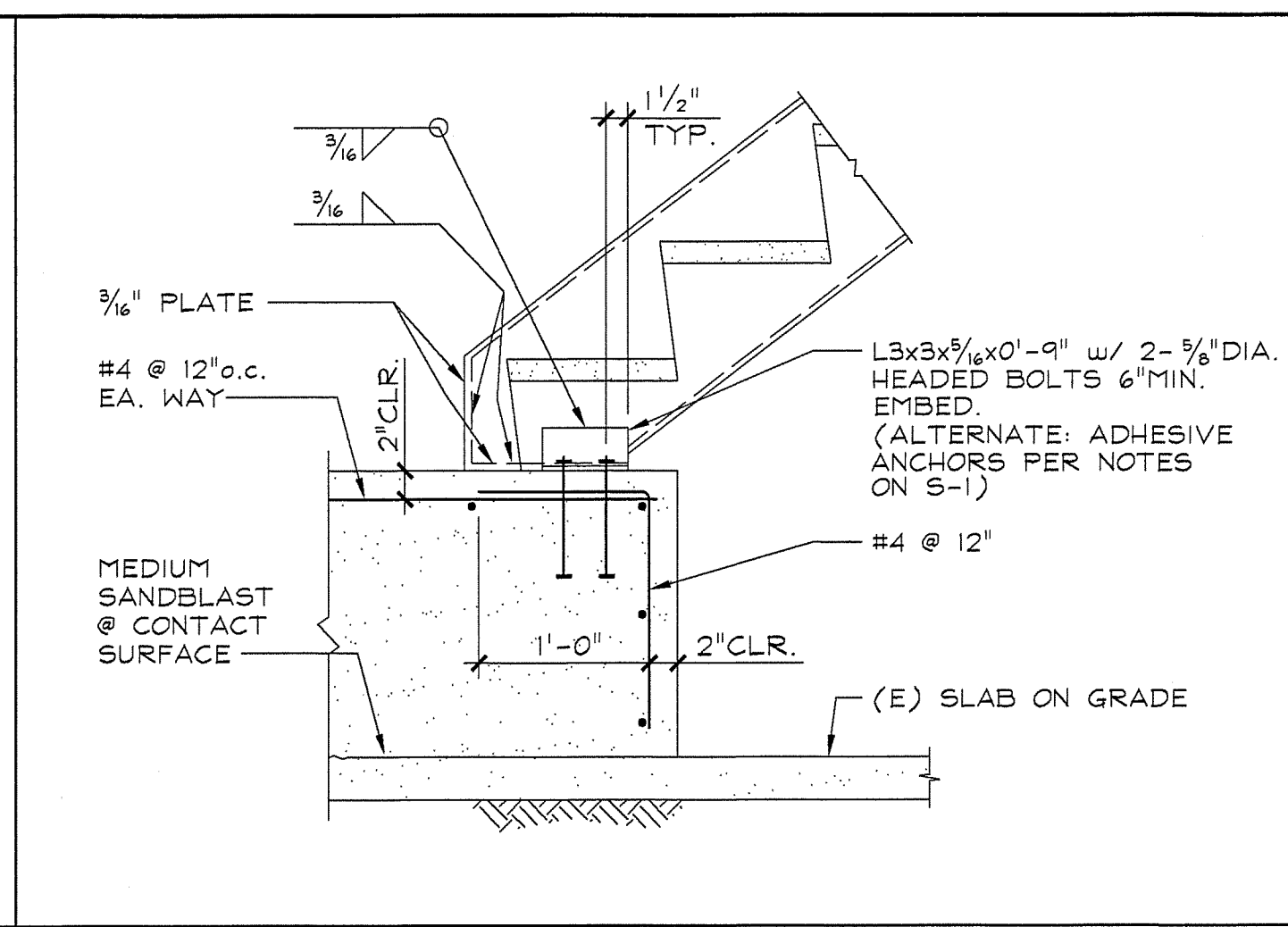
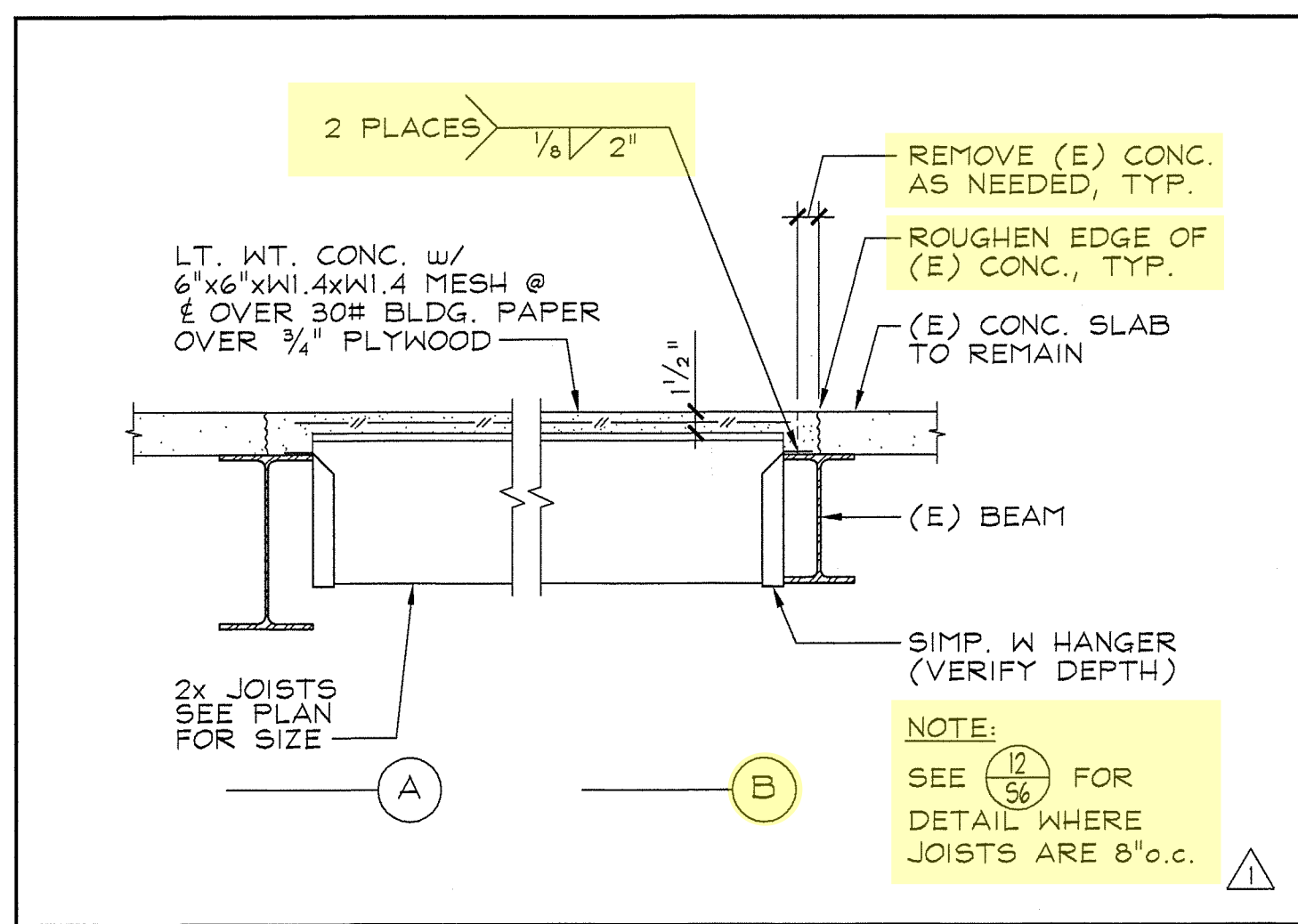
**SPENCER / HOSKINS Architecture & Planning**  
James G. Spencer, AIA Architect C-6655  
Stephen R. Hoskins, AIA Architect C-7723

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**CLAYPOOL BUILDING RECONSTRUCTION PALO VERDE COLLEGE, NEEDLES DISTRICT**  
725 BROADWAY, NEEDLES, CALIFORNIA 92363

---

DATE: 07/16/07  
JOB NO.: 05064.00  
DRAWN BY: [Signature]  
CHECKED BY: [Signature]  
SHEET NO.: **S-5**  
DATE: APR 07 2011



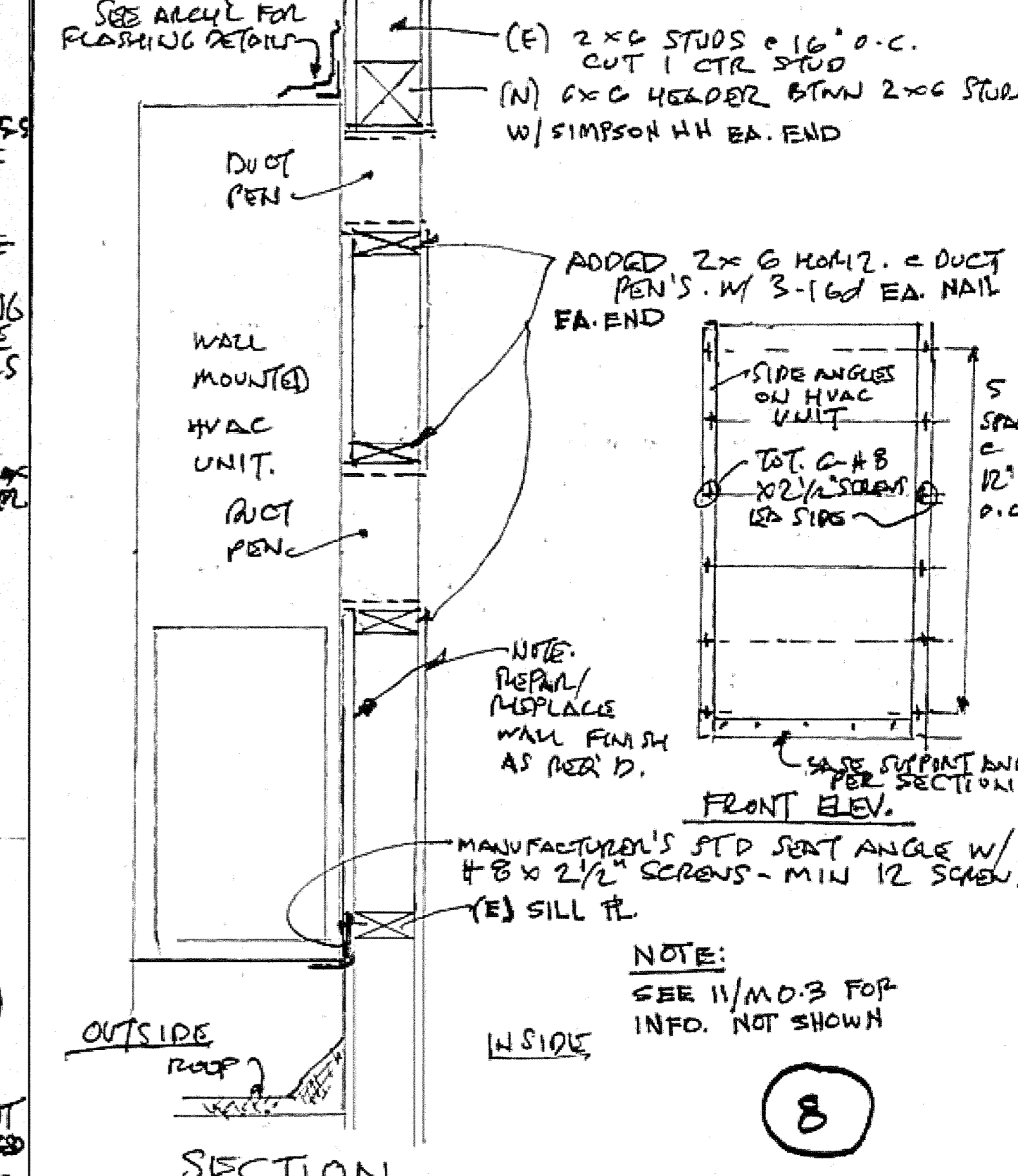
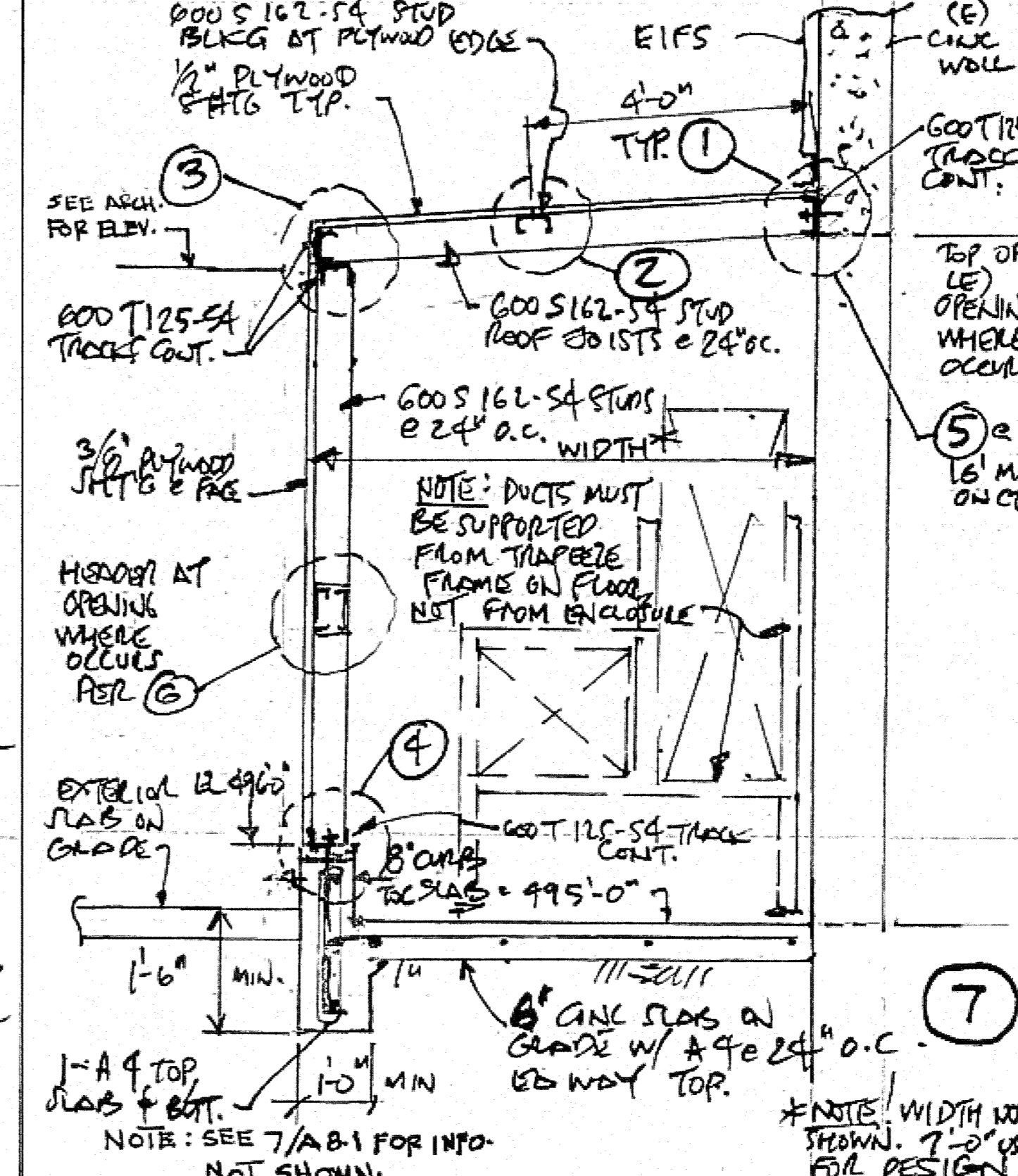
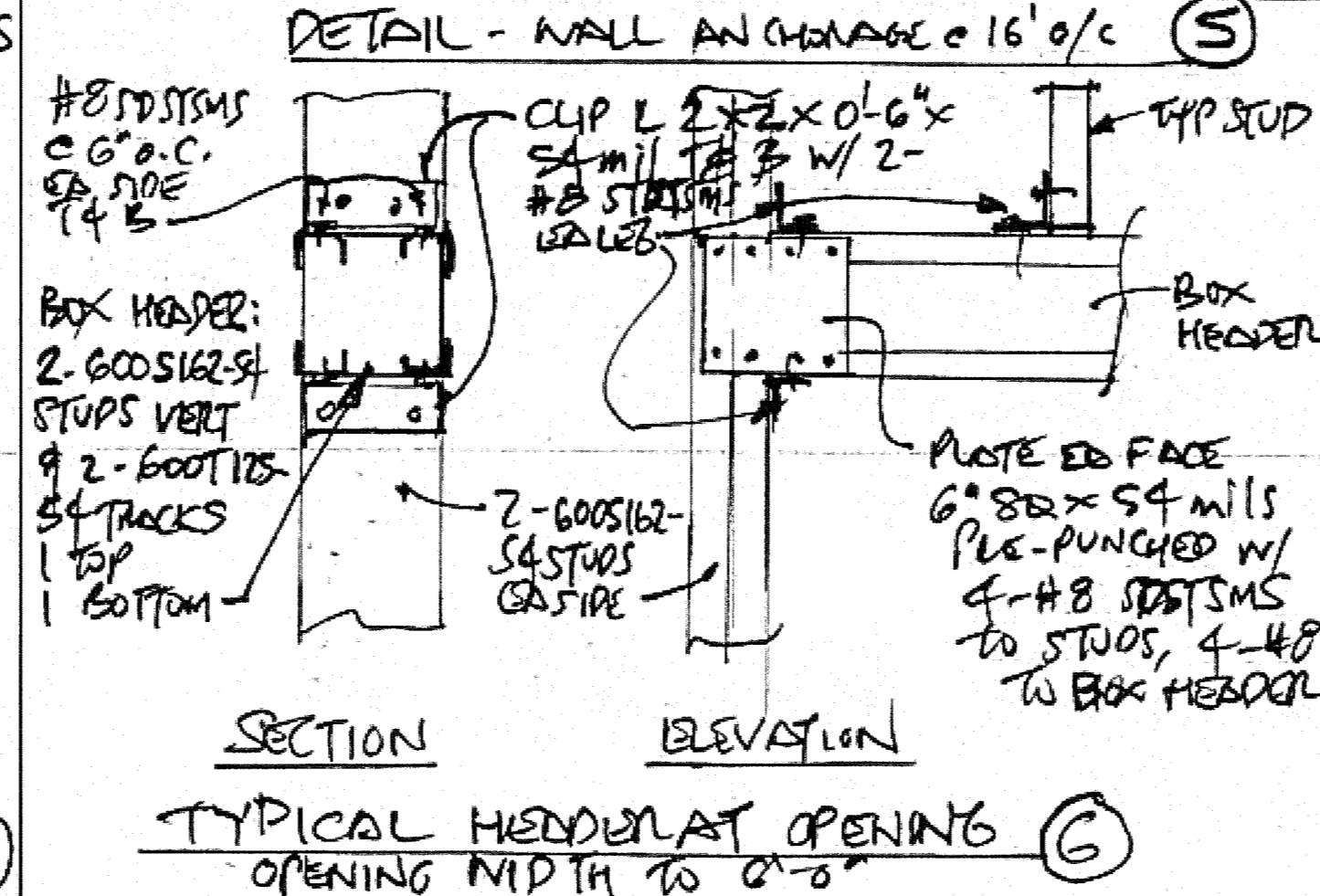
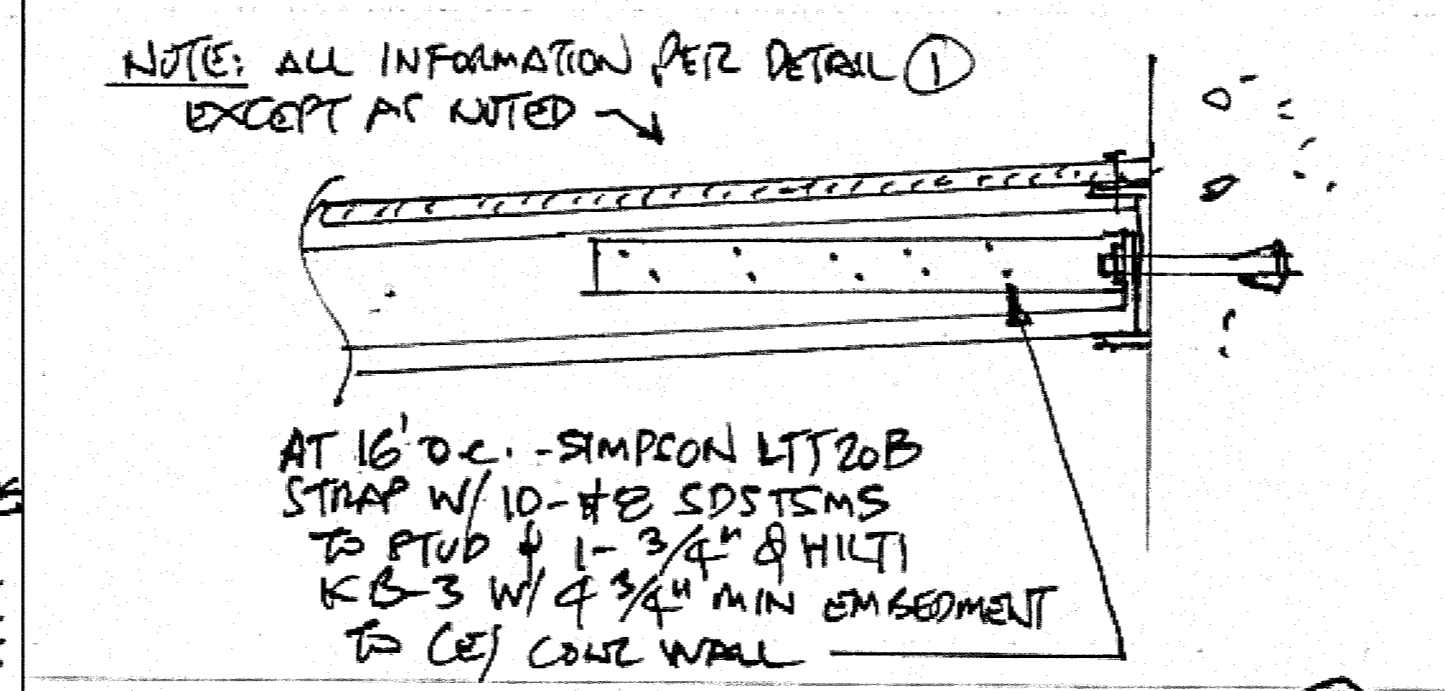
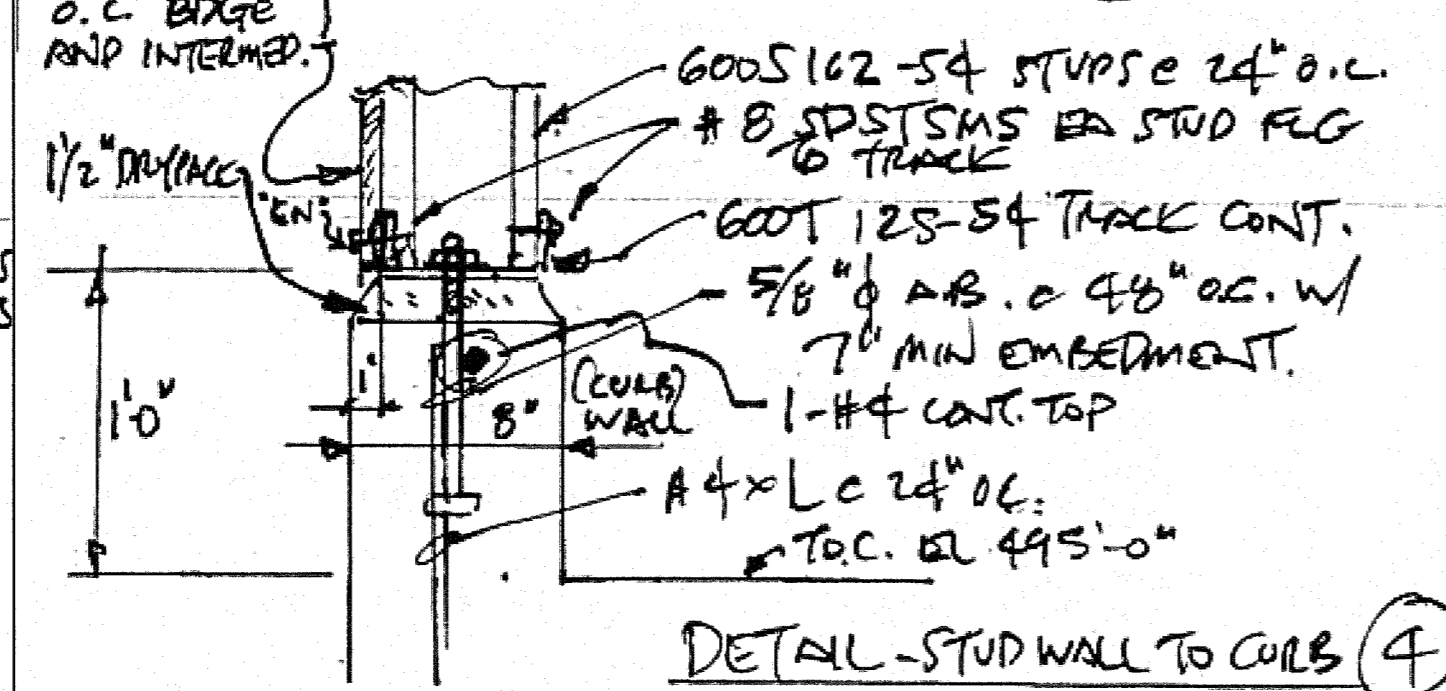
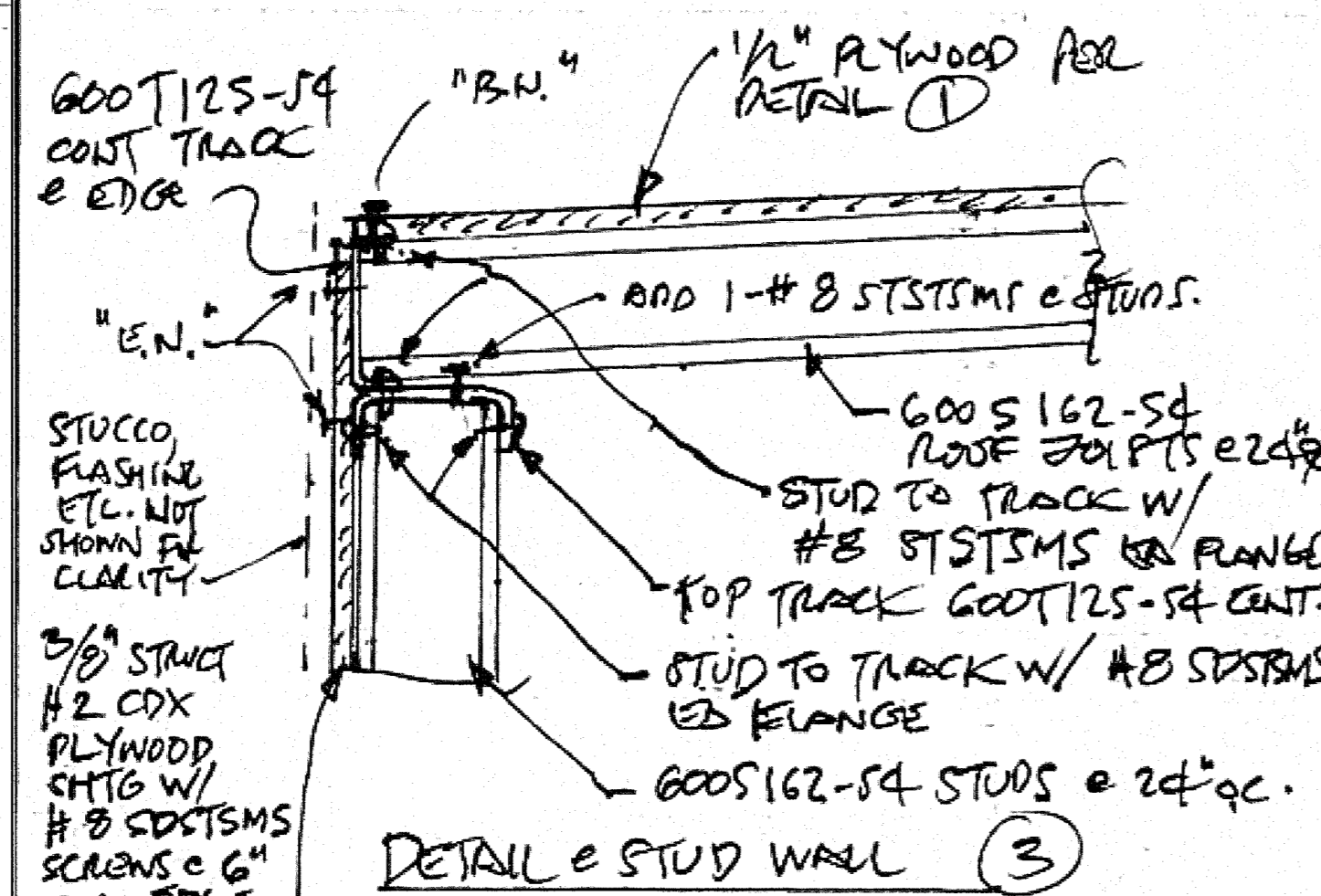
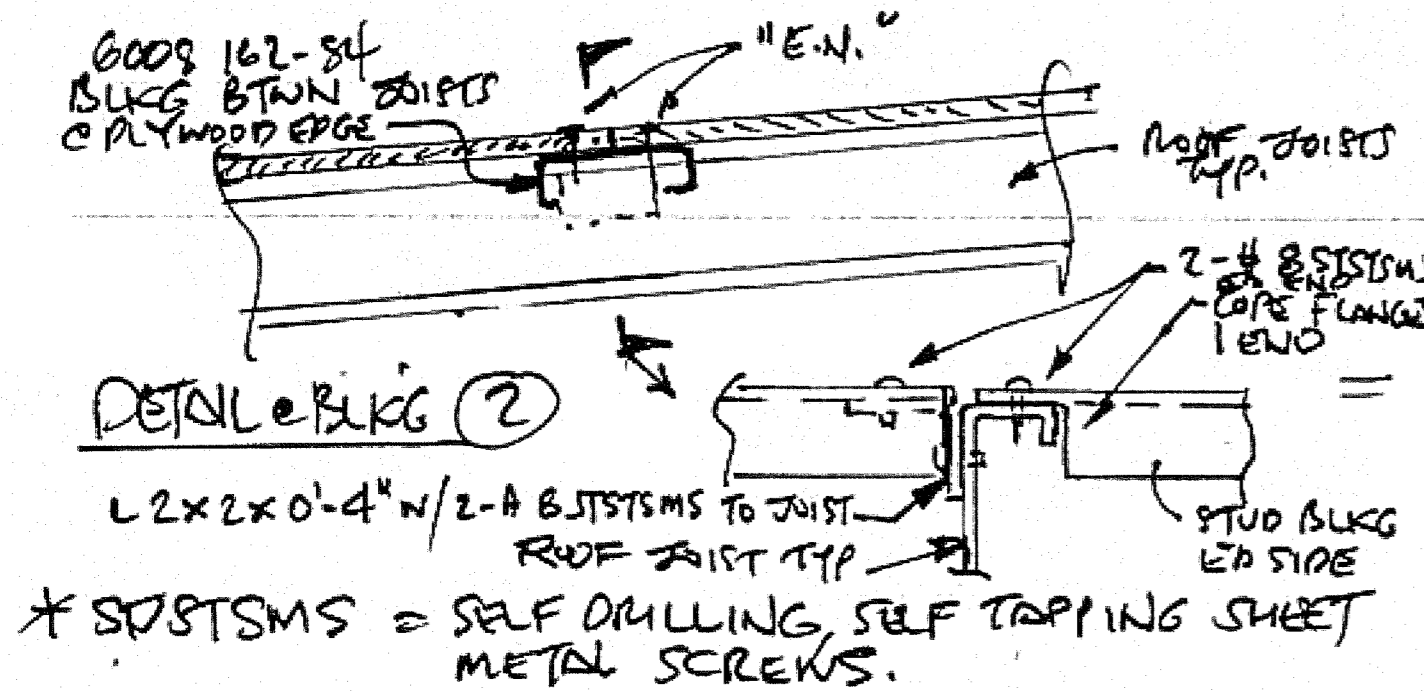
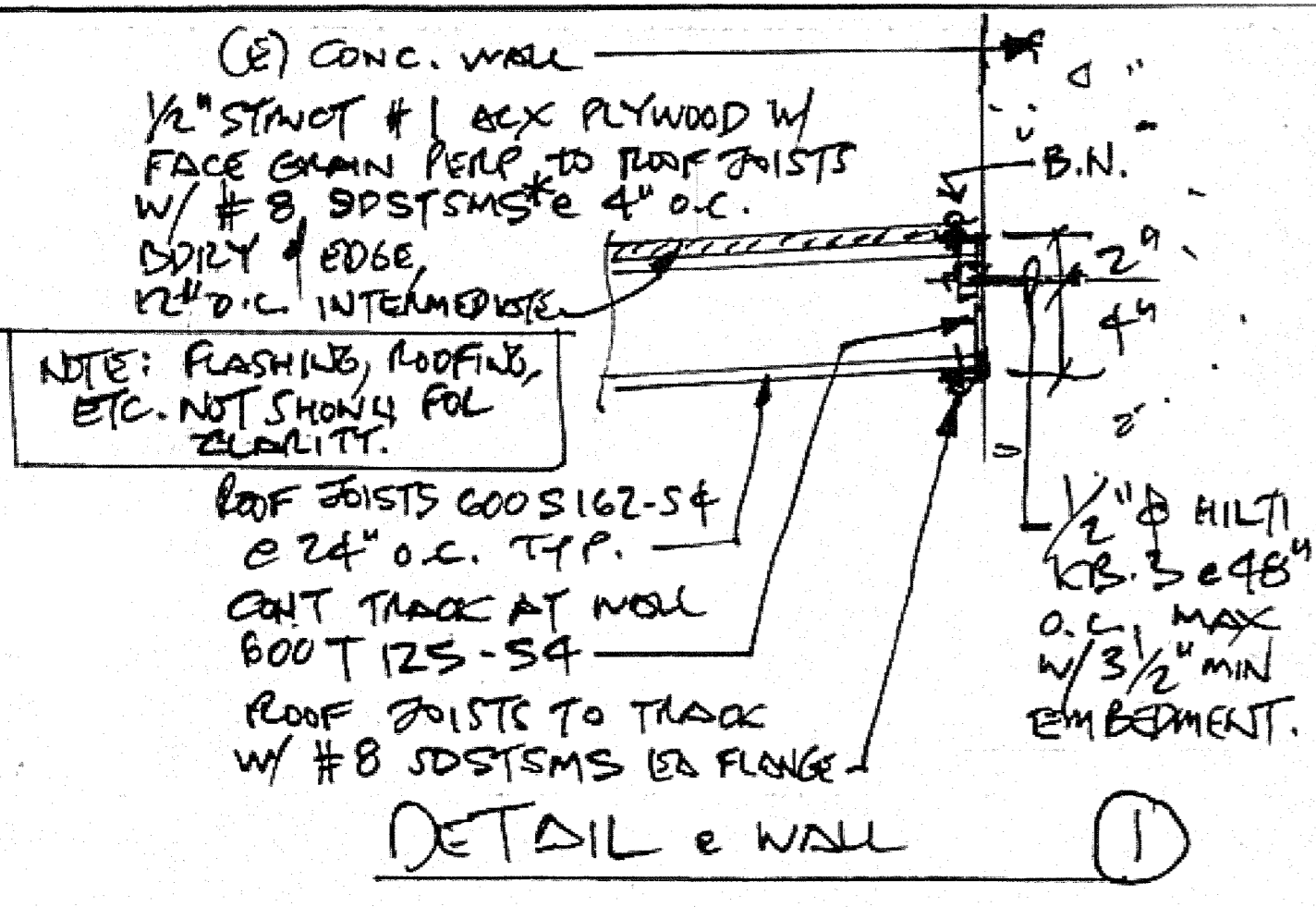
**SPENCER / HOSKINS associates**  
 2245 North Lake Avenue  
 Alhambra, California 91001  
 (626) 285-2276  
 Fax: (626) 285-2275  
 E-mail: info@spencerhsk.com

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 STRUCTURAL ENGINEERS  
 #05150  
 600 HARRIS AVENUE, SUITE 4000, (908) 907-1800  
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 E-MAIL: DRG@GROSSMANSPENCER.COM

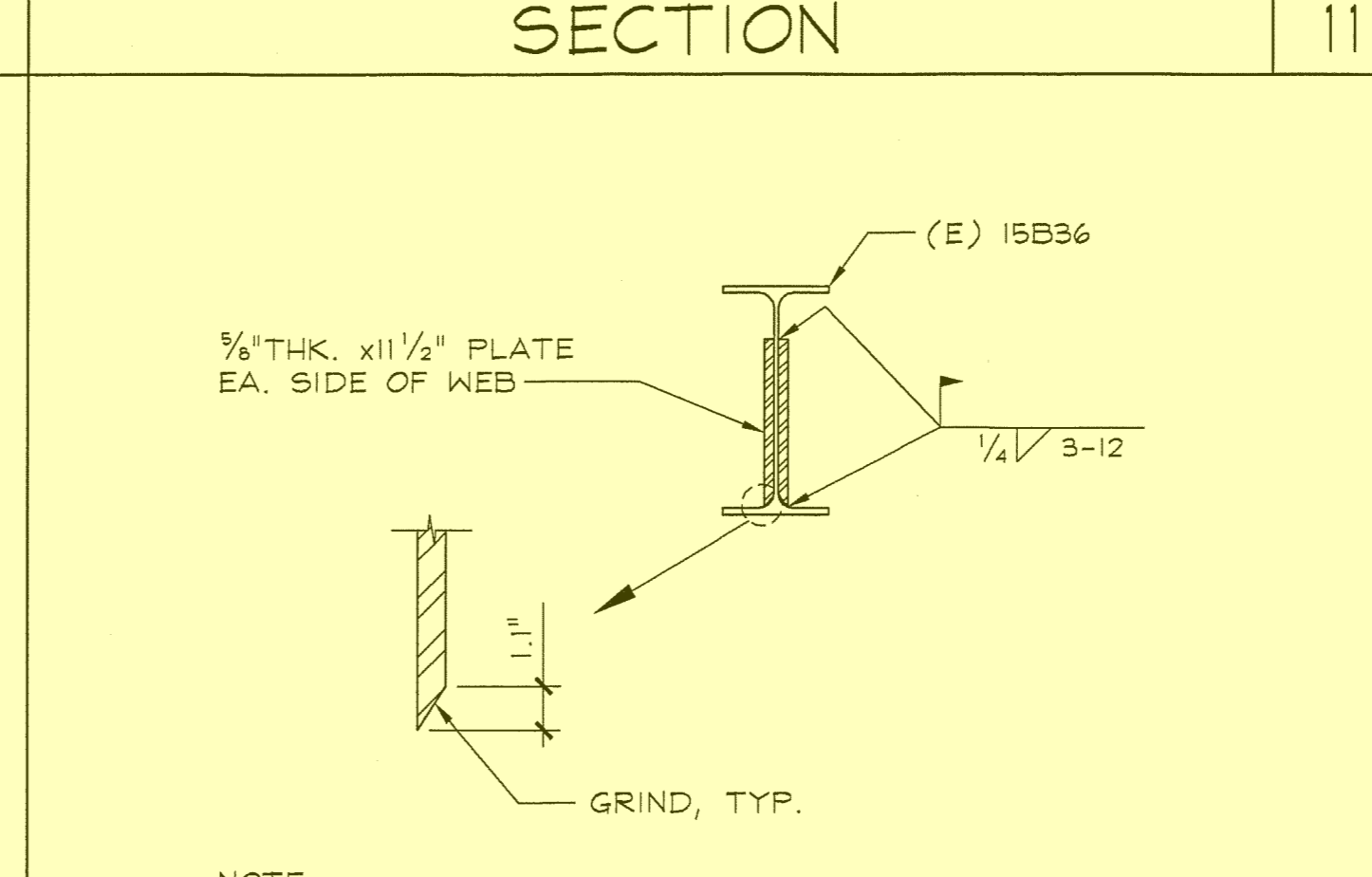
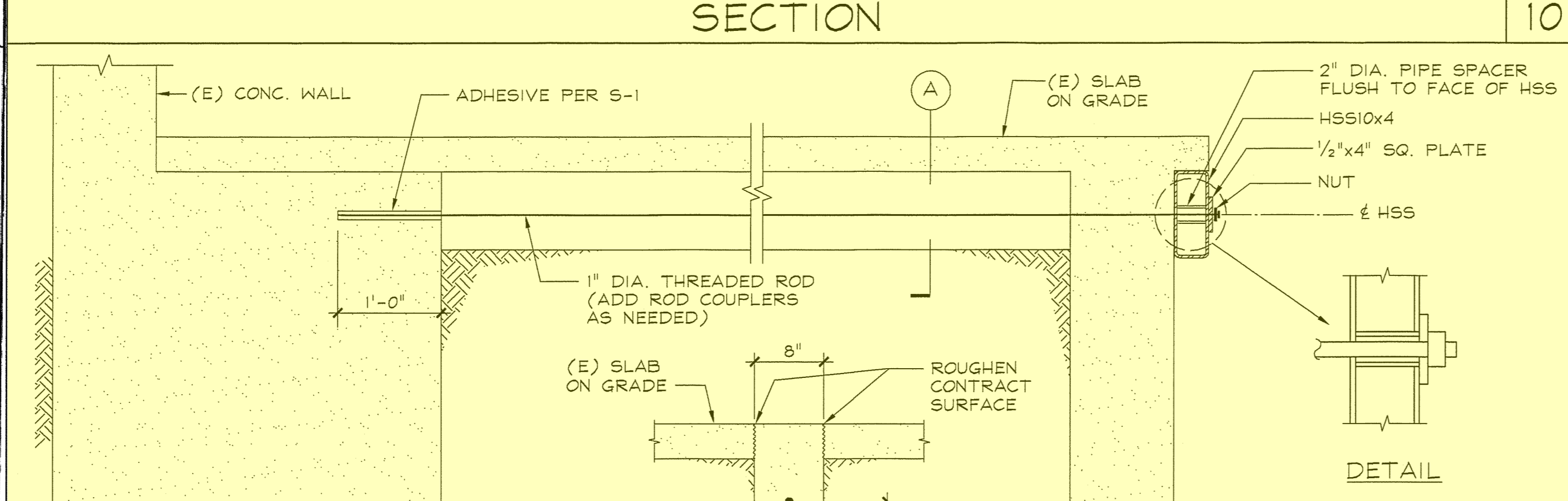
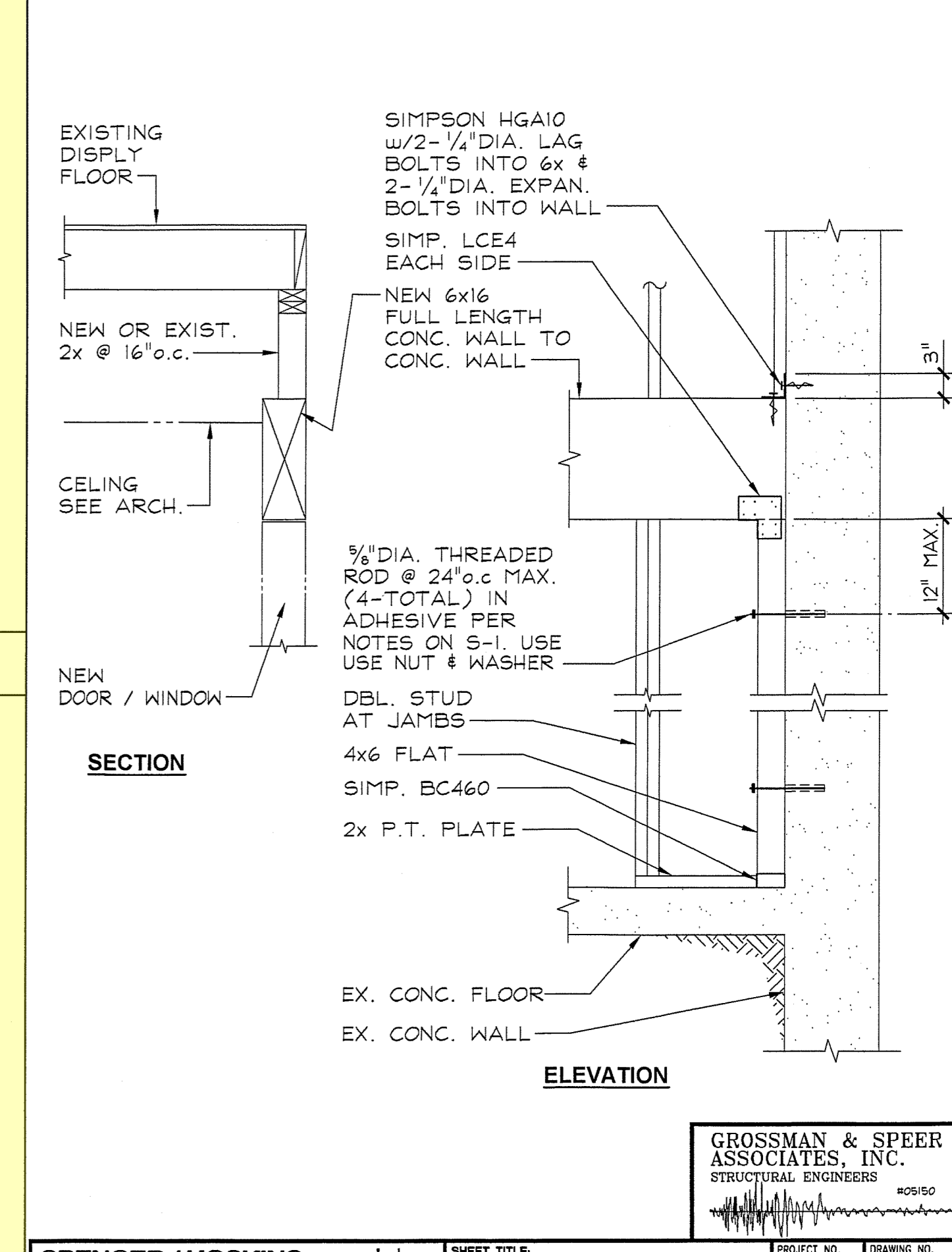
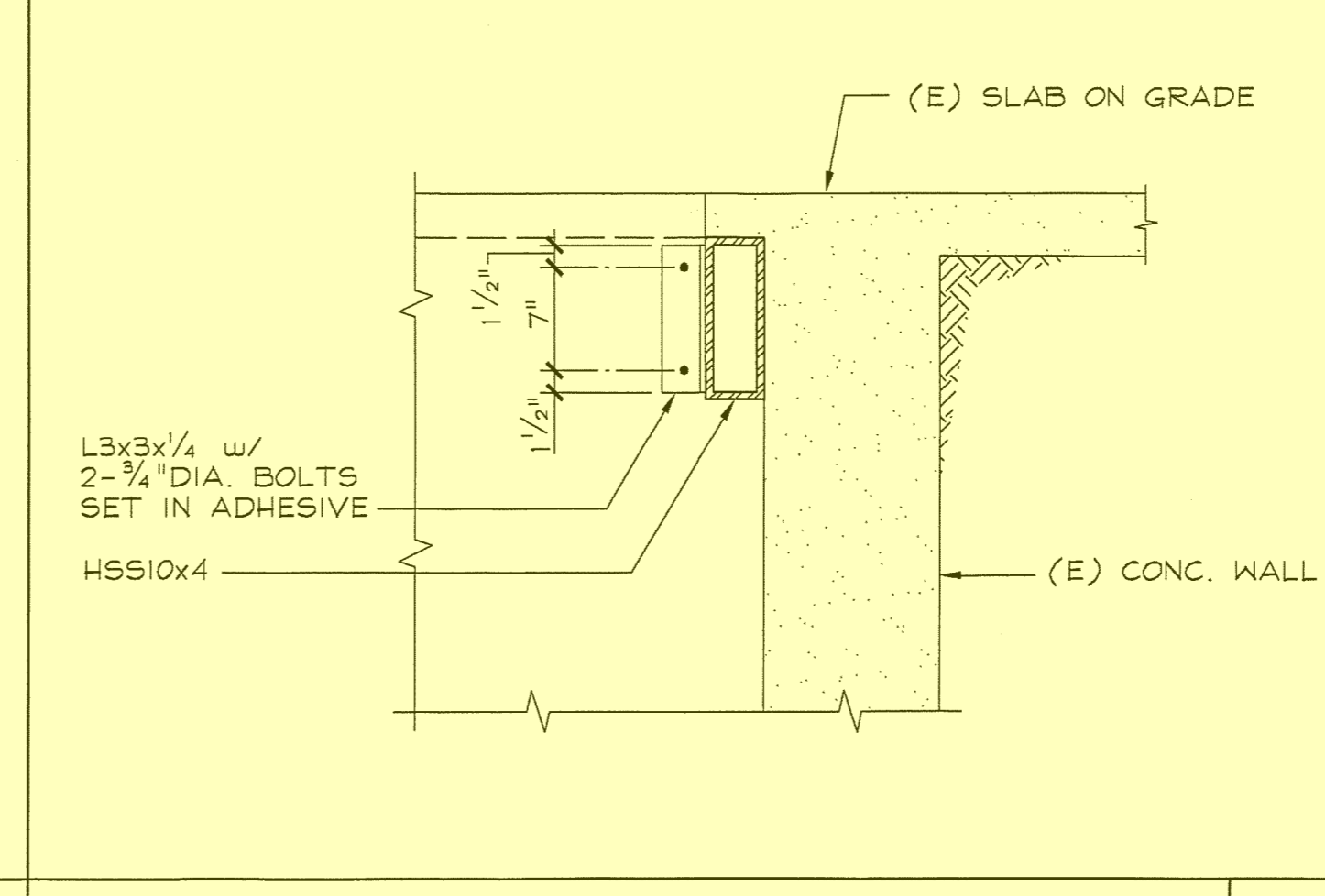
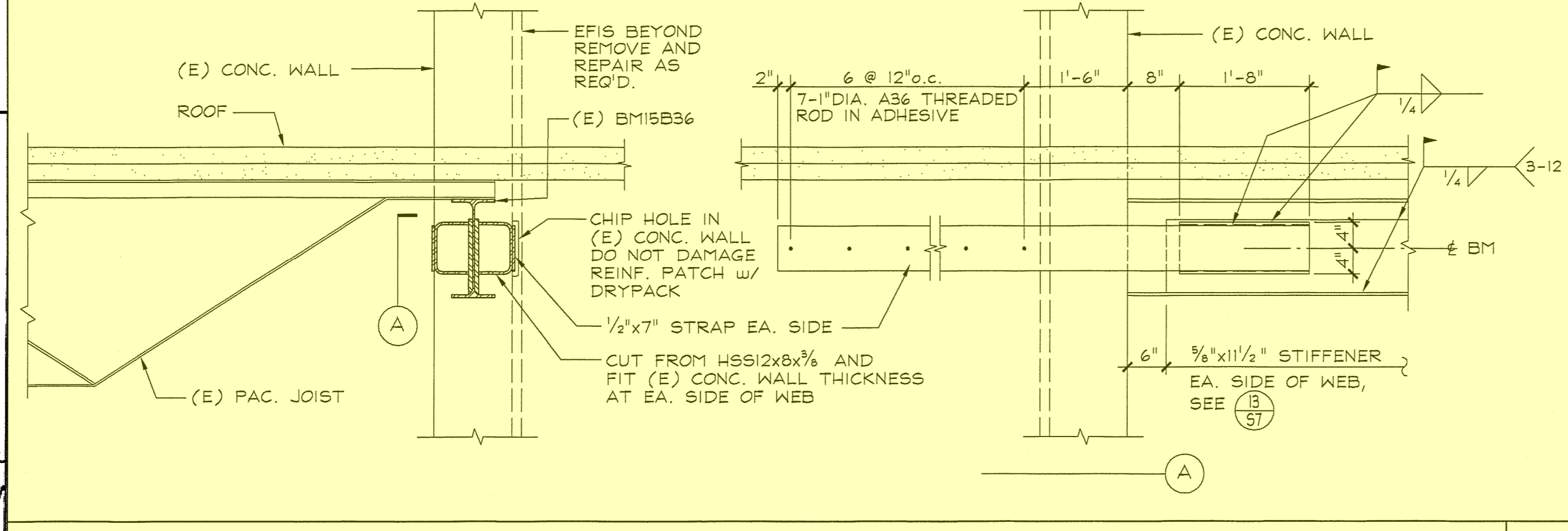
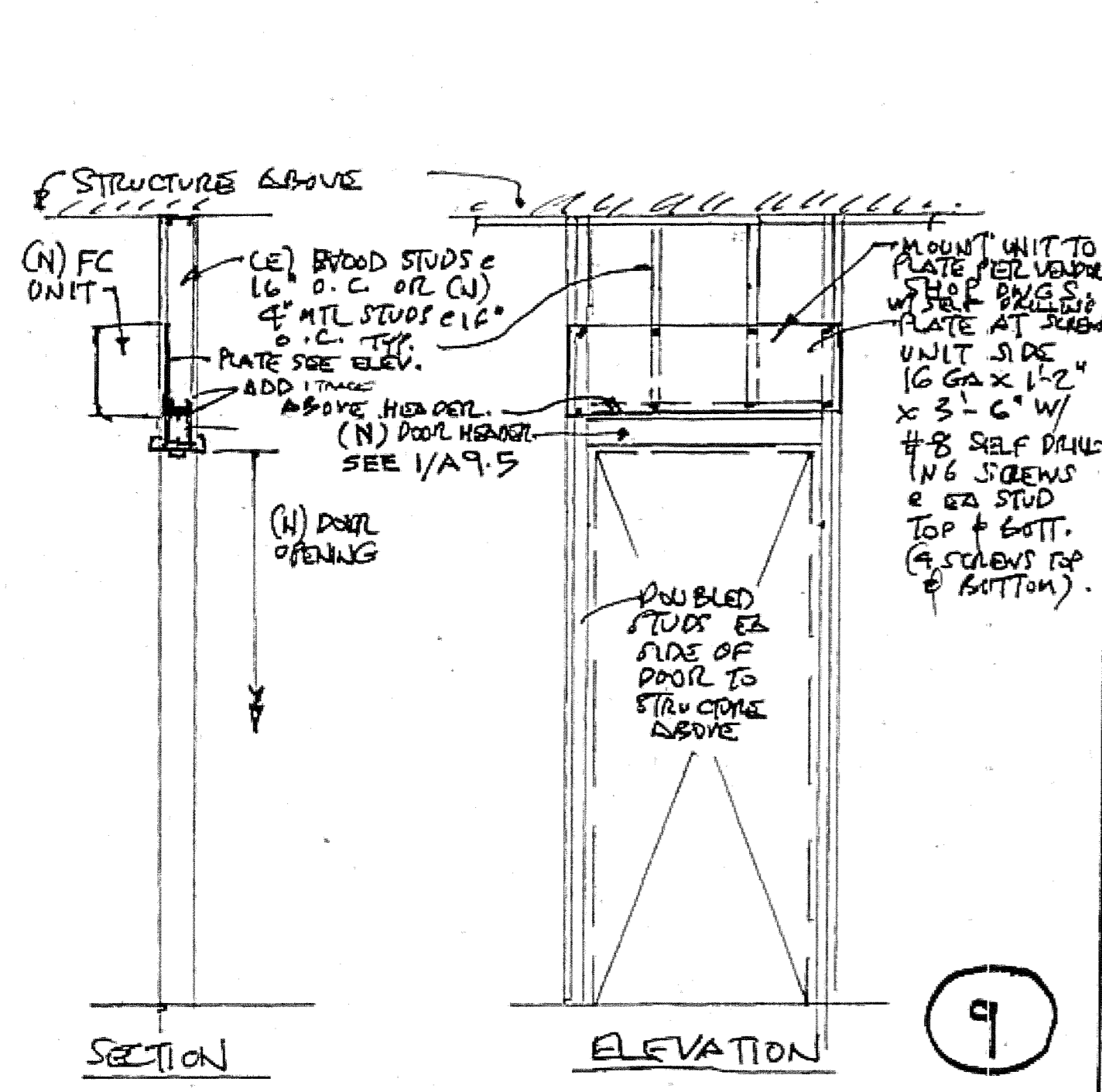
**CLAYPOOL BUILDING RECONSTRUCTION**  
 PALO VERDE COLLEGE, NEEDLES CENTER  
 725 BROADWAY, NEEDLES, CALIFORNIA 92363

DATE: 07/06/07  
 JOB NO.: 05064-00  
 DRAWN: CG  
 CHECKED: RC  
 SHEET NO.: S-6

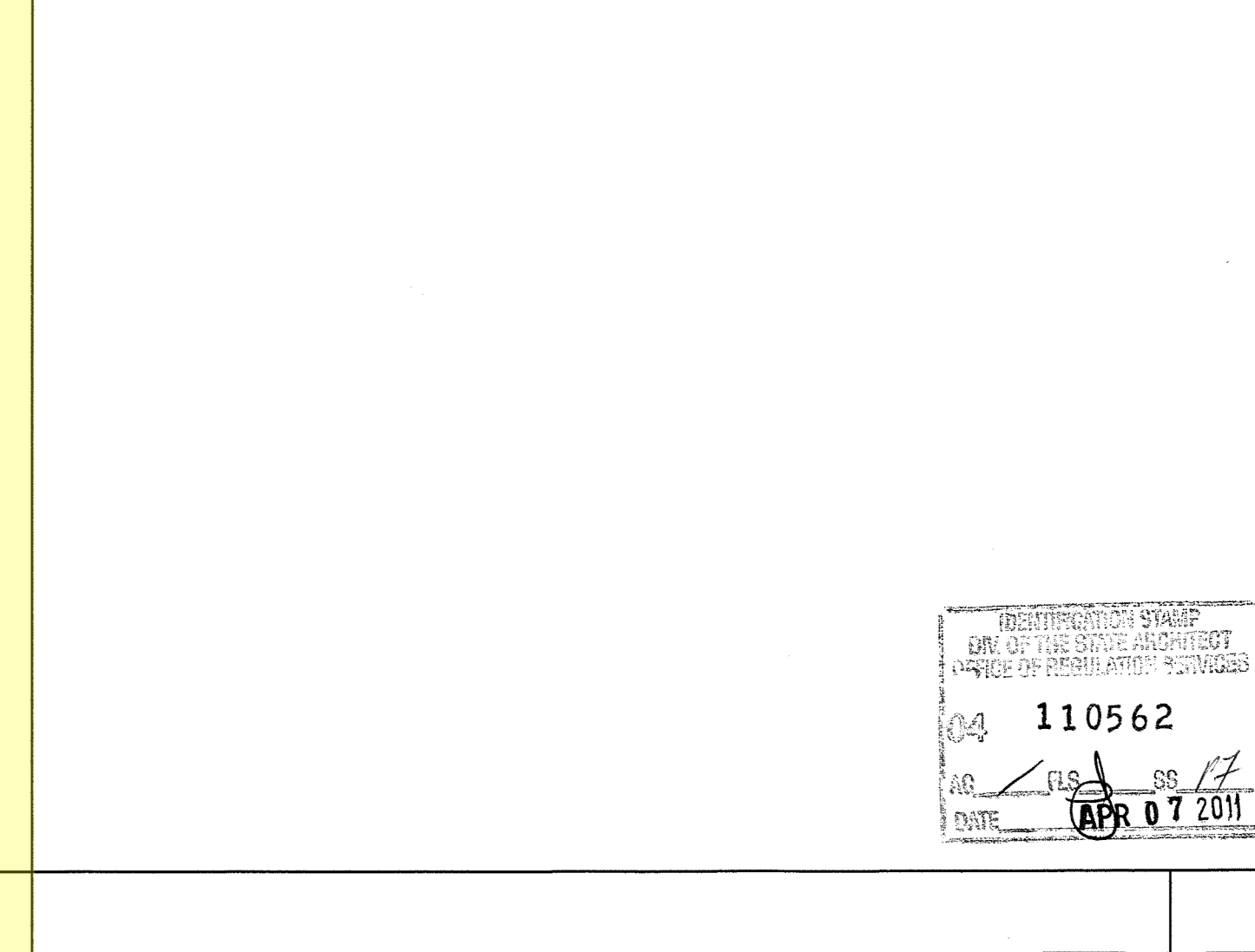
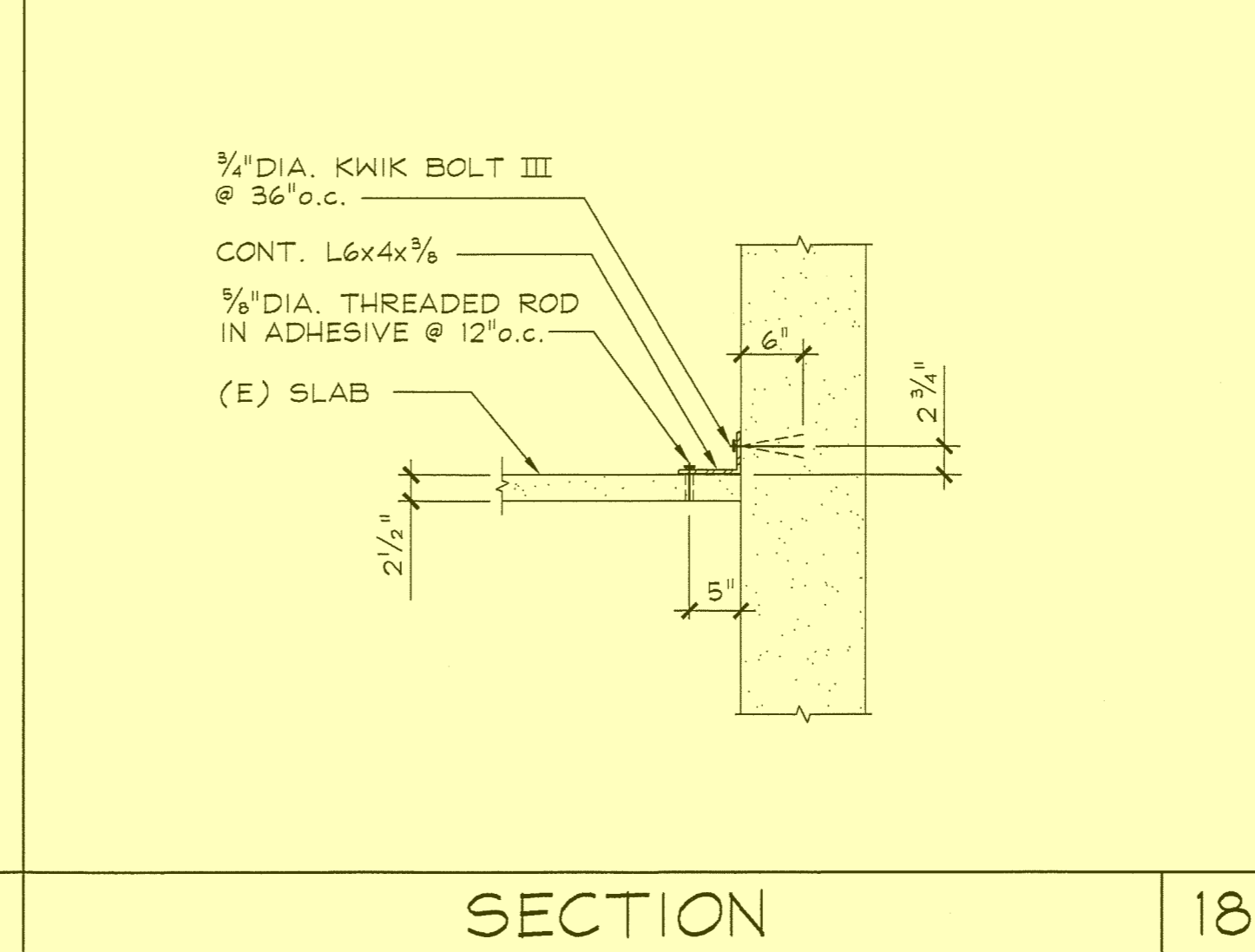
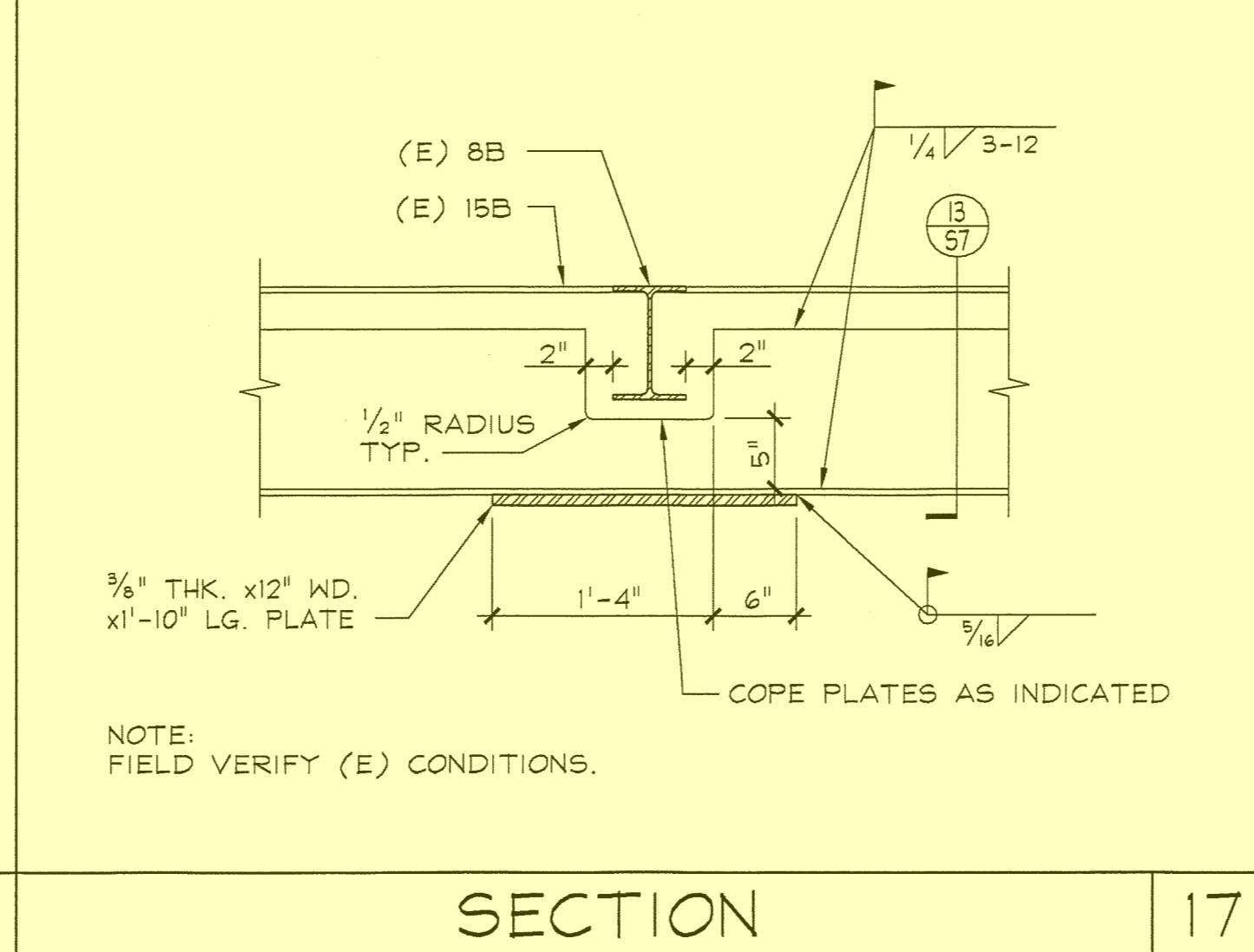
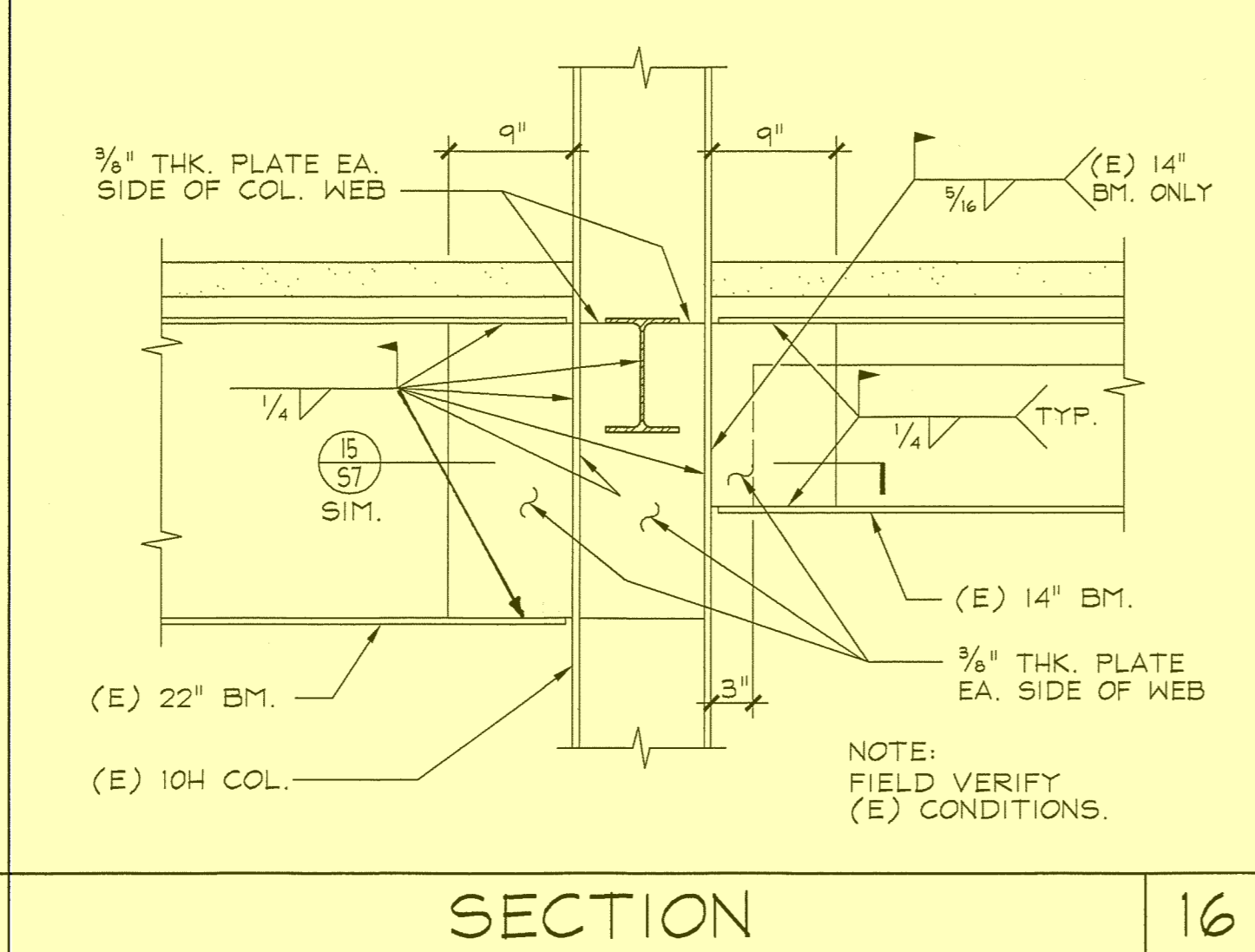
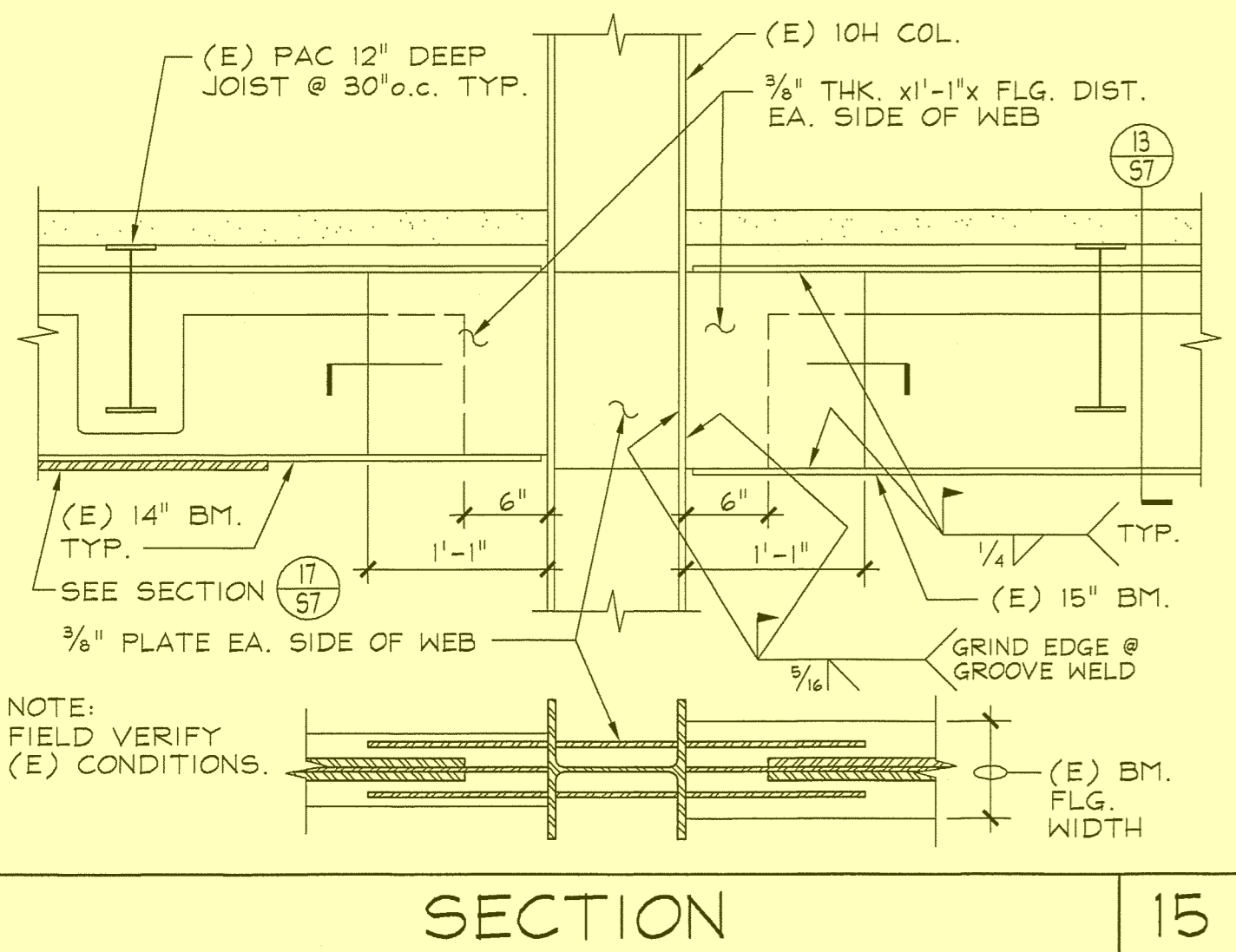




SUPPORTS FOR FC-1, FC-2 REF: CATALOG CUT BY REF: MECH'L DETAIL 3/M.0.3 MITSUBISHI PKA-A18 GEL FAN COIL UNIT MOUNTS ON WALL ABOVE DOOR.  
SIZE: 3'-3" WIDE X 1'-1 1/8" H X 9 1/4" DEEP.  
WEIGHT: 35 LBS PER MFG.



SPENCER / HOSKINS associates		SHEET TITLE: HEADRAT @ GRID 2, AT ROOMS 15,19,21		PROJECT NO. 05064.00	
Architecture & Planning		DATE: 04/14/08		DRAWING NO. ZS-1	
Jay G. Spence, AIA Architect C-12955 Stephen R. Hoskins, AIA Architect C-7723		155 Oakland Court, Suite 100 Oakland, CA 94612 Tel: (925) 931-9172 Fax: (925) 931-1111		Claypool Building Reconstruction Palo Verde College, Needles Center 752 West Broadway Street, Needles, AC 92363	
DRWG. 1 of 1		GROSSMAN & SPEER ASSOCIATES, INC. STRUCTURAL ENGINEERS		PROJECT NO. 05064.00	



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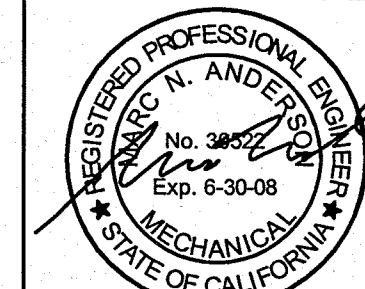
GROSSMAN & SPEER ASSOCIATES, INC. STRUCTURAL ENGINEERS  
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CLAYPOOL BUILDING RECONSTRUCTION  
PALO VERDE COMMUNITY COLLEGE DISTRICT  
725 BROADWAY, NEEDLES, CALIFORNIA 92363

DATE: 06/20/10  
JOB NO.: 05064.00  
DRAWN: GG  
CHECKED: RG  
SHEET NO. S-7  
SHEET OF

REVISIONS  
NO. DATE DESCRIPTION  
1 04/14/08

DATE: APR 07 2011  
TIME: 10:58 AM  
DRAWN BY: GG  
CHECKED BY: RG

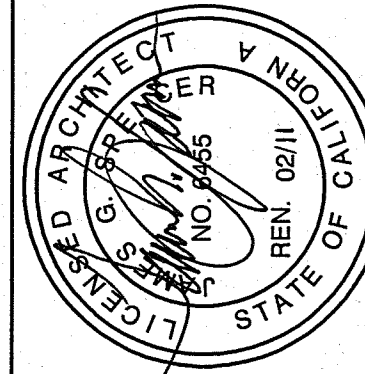


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James G. Spencer, AIA, Architect C-12985  
Stephen R. Hoskins, AIA, Architect C-9485



CLAYPOOL BUILDING RECONSTRUCTION  
PALO VERDE COLLEGE, NEEDLES CENTER  
PALO VERDE COMMUNITY COLLEGE DISTRICT  
725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363  
MECHANICAL GENERAL NOTES,  
ABBREVIATIONS & SYMBOLS

DATE	JOB NO.	ISSUED FOR	BY	CHECKED	IN CHARGE
07-08-07	2007-SH05-00	FOR REVIEW	ADBT		

SHEET NO. **MO.1**  
DATE: APR 07 2011  
110562

- ### MECHANICAL GENERAL NOTES
- ALL DUCT INSULATION TO HAVE MINIMUM 8.0 INSTALLED R-VALUE.
  - DUCT CONSTRUCTION SHALL BE GALVANIZED STEEL IN ACCORDANCE W/ CHAPTER 6 OF THE C.M.C. SWAY BRACING AND SUSPENSION SHALL CONFORM TO 1995 SMACNA STANDARDS. SEAL ALL SEAMS AND JOINTS AIR AND WATERTIGHT. FLEXIBLE ALUMINUM DUCTWORK IS NOT ALLOWED. DUCT TAPE IS NOT ALLOWED.
  - FLEXIBLE DUCTWORK & DUCTLNER SHALL HAVE FLAME SPREAD RATING NOT EXCEEDING 25, AND A SMOKE DEVELOPED RATING NOT EXCEEDING 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84, NFPA 255 AND U.L. 723.
  - FLEXIBLE DUCTS SHALL CONSIST OF AN EXTERIOR REINFORCED LAMINATED VAPOR BARRIER, 1-1/2" FIBERGLASS INSULATION (K=25 @ 75 DEG. F), ENCAPSULATED SPRING STEEL WIRE HELIX AND IMPERVIOUS, SMOOTH, NON-PERFORATED INTERIOR VINYL LINER. INDIVIDUAL LENGTHS OF FLEXIBLE DUCTS SHALL CONTAIN FACTORY FABRICATED STEEL CONNECTION COLLARS.
  - FLEXIBLE DUCTS SHALL BE SUPPORTED AT OR NEAR MID-LENGTH WITH 2" WIDE 28 GA. STEEL HANGER COLLAR ATTACHED TO THE STRUCTURE WITH APPROVED DUCT HANGER. INSTALLATION SHALL MINIMIZE SHARP RADIUS TURNS OR OFFSETS. 7' MAXIMUM LENGTH CONNECTING TO TERMINAL OUTLETS.
  - PROVIDE BACKDRAFT DAMPERS AT ALL EXHAUST AND FRESH AIR INTAKES.
  - THERMOSTATS SHALL BE AUTOMATIC CHANGEOVER TYPE TO SEQUENCE HEATING AND COOLING. SET POINT RANGE SHALL BE 10 DEG. F BETWEEN FULL HEATING AND FULL COOLING. ADJUSTABLE TEMPERATURE DIFFERENTIAL SHALL BE 1-1/2 DEG. F. THERMOSTAT CONTROL RANGE SHALL BE 55 DEG. F TO 85 DEG. F. CONTROLS SHALL HAVE CAPABILITY OF TERMINATING HEATING AT NO HIGHER THAN 78 DEG. F. AND COOLING AT NO LOWER THAN 70 DEG. F. FANS SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS.
  - LINE VOLTAGE WIRING, UNDERGROUND LOW VOLTAGE CONDUIT, LINE VOLTAGE CONDUIT, DISCONNECT SWITCHES AND FINAL CONNECTION BY ELECTRICAL CONTRACTOR. LOW VOLTAGE WIRING, ABOVE GROUND LOW VOLTAGE CONDUIT, & FINAL CONNECTION BY CONTRACTOR.
  - PROVIDE PERMANENT LABEL ON EACH A/C UNIT IDENTIFYING AREA/SPACE SERVED PER CMC 304.5. COORDINATE ROOM NUMBERS WITH OWNER. SEE 15075 FOR ADDITIONAL REQUIREMENTS.
  - SYSTEM AIR BALANCE SHALL BE PERFORMED BY AN INDEPENDENT AGENCY CERTIFIED BY THE AABC. THIS WORK SHALL CONFORM TO CURRENT AABC SPECIFICATIONS AND STANDARDS.
  - PROVIDE WRITTEN WARRANTY TO REPLACE ALL FAULTY MATERIALS AND/OR LABOR, AT NO COST TO OWNER, FOR A PERIOD OF ONE YEAR FROM DATE OF OWNER ACCEPTANCE. PROVIDE 5 YEAR COMPRESSOR WARRANTY AND 10 YEAR HEAT EXCHANGER WARRANTY FOR ALL A/C EQUIPMENT.
  - FOR THE PURPOSE OF CLEARNESS AND LEGIBILITY, THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH SIZES AND LOCATION OF EQUIPMENT IS DRAWN TO SCALE WHEREVER POSSIBLE, THE CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE CONTRACTOR DOCUMENTS AND VERIFY THIS INFORMATION BEFORE ORDERING, FABRICATING OR INSTALLING OF ANY MATERIALS.
  - UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.
  - ALL DUCT SIZES SHOWN ARE NET INSIDE DIMENSIONS AND DO NOT ACCOUNT FOR DUCT LINER THICKNESS WHERE APPLICABLE. ALL PIPE DIMENSIONS SHOWN ARE NOMINAL SIZES.
  - ALL BRANCH DUCTS SHALL BE PROVIDED WITH ACCESSIBLE MANUAL VOLUME DAMPERS.
  - PROVIDE FLEXIBLE CONNECTIONS TO ALL HVAC EQUIPMENT (A/C UNIT, FANS, ETC.)
  - INSTALLATION & MATERIALS SHALL CONFORM TO THE CURRENT EDITION OF THE CALIFORNIA MECHANICAL CODE (CMC) & TITLE 24 PARTS 4 & 6.
  - CONTRACTOR SHALL PROVIDE AS-BUILTS, CAD GENERATED AND DRAWN TO 1/8" = 1'-0" SCALE. SUBMIT 6 SETS OF HARD COPIES AND 1 ELECTRONIC COPY ON CD-ROM. CAD DRAWINGS SHALL BE AUTOCAD VERSION 2000 OR LATER.

- ### SEISMIC NOTES
- A) THE SEISMIC ANCHORAGE FOR ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE DESIGNED TO WITHSTAND A LATERAL FORCE:
- CALCULATED AS SPECIFIED IN SECTION 1632A AND TABLE 16A-0 OF THE VOL. 2, TITLE 24, 2001 CBC.
  - IN LIEU OF CALCULATIONS PER 1-THE ANCHORAGE SHALL BE CAPABLE OF WITHSTANDING A LATERAL FORCE \*EQUAL TO 2.2 Wp (BOTH FORCES AT SERVICE LEVEL. THESE VALUES CORRESPOND TO AN Ip=1.15 AND Co=0.66, FOR OTHER VALUES OF Ip AND Co, THE LATERAL AND VERTICAL FORCE CAN BE ADJUSTED ACCORDINGLY).
- \*SECTION 1632A.2 OF 0.15 WP  
\*INCLUSION OF VERTICAL FORCE PER TABLE 16-0 FOOTNOTE 20 (FOR EMERGENCY POWER SUPPLIES & COMMUNICATIONS - (FOR EMERGENCY POWER SUPPLIES & COMMUNICATIONS EQUIPMENT ONLY)-)
- B) THE CAPACITY OF THE ANCHORAGE CONNECTORS IN SHEAR AND/OR TENSION SHALL BE CLEARLY INDICATED IN THE CALCULATIONS, WHICH INDICATE, (ICBO REPORT NO. (IF APPLICABLE) THEIR TOTAL NUMBER, SIZE, GRADE, EMBEDMENT, EDGE DISTANCES, AND OTHER FACTORS WHICH AFFECT THE CAPACITY IN SHEAR AND TENSION.
- C) ANCHORAGE DETAILS FOR EQUIPMENT WHICH ARE NOT APPROVED DURING PLAN REVIEW ARE SUBJECT TO APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND DSA'S DISTRICT STRUCTURAL ENGINEER PRIOR TO INSTALLATION AND INSPECTION BY THE PROJECT INSPECTOR.

### MECHANICAL ABBREVIATIONS

- A - ABOVE	- M - MIXED AIR
A/C AIR CONDITIONER	MAX MAXIMUM
AFF ABOVE FINISH FLOOR	MB MACHINE BOLT
AFLUE ANNUAL FUEL UTILIZATION EFFICIENCY	MBH 1000 BRITISH THERMAL UNITS PER HOUR
AI ANALOG INPUT	MCA MINIMUM CIRCUIT AMPACITY
AO ANALOG OUTPUT	MECH MECHANICAL
AP ACCESS PANEL	MFR MANUFACTURER
- B - BELOW	MIN MINIMUM
BEL BACKDRAFT DAMPER	MOPC MAXIMUM OVERCURRENT PROTECTION
BTHM BRITISH THERMAL UNITS PER HOUR	MS MOTOR STARTER
BLDG BUILDING	MTD MOUNTED
- C - CEILING	NG NATURAL GAS
CD CEILING DIFFUSER	NC NOT IN CONTRACT
CFM CUBIC FEET PER MINUTE	NC NOISE CRITERIA
CLG CEILING	NTS NOT TO SCALE
COMP. COMPRESSOR	NO NORMALLY CLOSED
CO CARBON MONOXIDE	NO NORMALLY OPEN
- D - DOWN	NPS NOMINAL PIPE SIZE
DWG DRAWING	- O - OUTSIDE AIR
DX DIRECT EXPANSION	OC ON CENTER
DI DIGITAL INPUT	ODP OUTDOOR DRIP PROF
DO DIGITAL OUTPUT	OPER. OPERATING
DDC DIRECT DIGITAL CONTROL	OSA OUTSIDE AIR
- E - EXISTING	- P - PRESSURE DROP
EAT ENTERING AIR TEMPERATURE	PH PHASE
EA EXHAUST AIR	PSI POUNDS PER SQUARE INCH
EER ENERGY EFFICIENCY RATIO	- Q - QUANTITY
EFF EFFICIENCY	- R - RETURN AIR
EQUIP EQUIPMENT	RA RETURN AIR
ESP EXTERNAL STATIC PRESSURE	RAD RETURN AIR DUCT
EMS ENERGY MANAGEMENT SYSTEM	RG RETURN GRILLE
EWT ENTERING WATER TEMPERATURE	RPM REVOLUTIONS PER MINUTE
- F - FLOOR	- S - SUPPLY AIR
FLR FLOOR	SAD SUPPLY AIR DUCT
FPI FINS PER INCH	SENS. SENSIBLE
FT FOOT, FEET	SF SUPPLY FAN
- G - GALLONS PER MINUTE	SMS SHEET METAL SCREW
GPI GALVANIZED IRON	S.P. STATIC PRESSURE
- H - HORSEPOWER	SQ SQUARE
HP HOUR	S/S STAINLESS STEEL
HVAC HEATING VENTILATING AND AIR CONDITIONING	SWR SIDEWALL RETURN GRILLE
HW HOT WATER	SWG SIDEWALL SUPPLY GRILLE
HZ HERTZ	- T - TOTAL DYNAMIC HEAD
IN. INCHES	TYP TYPICAL
KW KILOWATT	TO TRANSFER GRILLE
- L - LINED DUCT	- U - UP THRU ROOF
LAT LEAVING AIR TEMPERATURE	UTP UNDER TROUGH
LB POUND	VAC VOLTS ALTERNATING CURRENT
LWT LEAVING WATER TEMPERATURE	VFD VARIABLE FREQUENCY DRIVE
	- W - WEIGHT
	W/ WITH

### MECHANICAL SYMBOLS

	CD CEILING DIFFUSER - SUPPLY		PRESSURE REDUCING VALVE
	SAD SUPPLY AIR DUCT - RISER		ISOLATION VALVE (BALL)
	SAD SUPPLY AIR DUCT - DROP		ISOLATION VALVE (BUTTERFLY)
	RAG RETURN AIR GRILLE		MOTORIZED CONTROL VALVE
	RAD RETURN AIR DUCT - RISER		CHECK VALVE
	RAD RETURN AIR DUCT - DROP		THERMOMETER
	EAG EXHAUST AIR GRILLE		PRESSURE GAUGE
	EAD EXHAUST AIR DUCT - RISER		SMACNA DUCT STATIC PRESSURE CLASS
	EAD EXHAUST AIR DUCT - DROP		POD POINT OF DEMOLITION
	SWS SIDE WALL SUPPLY GRILLE		POC POINT OF CONNECTION
	SWR SIDE WALL RETURN/EXHAUST GRILLE		THERMOSTAT / SENSOR MOUNT ④ +48" AFF (IF MOUNTED OVER CASEWORK OR OTHER OBSTRUCTION 48" TO TOP OF DEVICE)
	DUCT OFFSET UP		TSTAT
	DUCT OR EQUIPMENT TO BE REMOVED		TIME CLOCK
	EXISTING DUCT TO REMAIN		DUCT SMOKE DETECTOR (MOUNT BELOW ROOF)
	DUCT		CARBON DIOXIDE SENSOR FOR OUTSIDE AIR MODULATION
	DUCT TRANSITION		DL DOOR LOUVER W/ MINIMUM FREE AREA (SQ. FT.)
	MVD MANUAL VOLUME DAMPER		UC UNDER CUT DOOR
	AFD AUTOMATIC FIRE DAMPER		DETAIL NUMBER
	CSFD COMBINATION FIRE/SMOKE DAMPER		DETAIL DESIGNATION
	CHWS CHILLED WATER SUPPLY PIPE		DRAWING NUMBER
	CHWR CHILLED WATER RETURN PIPE		EQUIPMENT DESCRIPTION
	HWS HOT WATER SUPPLY PIPE		EQUIPMENT DESIGNATION
	HWR HOT WATER RETURN PIPE		EQUIPMENT NUMBER
	CWS CONDENSER WATER SUPPLY PIPE		
	CWR CONDENSER WATER RETURN PIPE		

- ### MECHANICAL MANDATORY MEASURES
- |   |   |
|---|---|
| <b>EQUIPMENT AND SYSTEMS EFFICIENCY</b>   | <b>CONTROLS</b>   |
| ANY APPLIANCE FOR WHICH THERE IS A CALIFORNIA STANDARD ESTABLISHED IN THE APPLIANCE EFFICIENCY STANDARDS SHALL COMPLY WITH THAT STANDARD.   | EACH SPACE CONDITIONING ZONE SHALL BE CONTROLLED BY AN INDIVIDUAL THERMOSTATIC CONTROL THAT RESPONDS TO TEMPERATURE WITHIN THE ZONE. WHERE USED TO CONTROL HEATING, THE CONTROL SHALL BE ADJUSTABLE DOWN TO 55° F OR LOWER. FOR COOLING, THE CONTROL SHALL BE ADJUSTABLE UP TO 85° F OR HIGHER. WHERE USED TO CONTROL BOTH HEATING AND COOLING, THE CONTROL SHALL BE CAPABLE OF PROVIDING A DEAD BAND OF AT LEAST 5° F WITHIN WHICH THE SUPPLY OF HEATING AND COOLING IS SHUT OFF OR REDUCED TO MINIMUM.  |
| PIPING, EXCEPT THOSE CONVEYING FLUIDS AT TEMPERATURES BETWEEN 50° F AND 105° F, OR WITHIN HVAC EQUIPMENT, SHALL BE INSULATED IN ACCORDANCE WITH STANDARDS § 123.  | EACH SPACE CONDITIONING SYSTEM SERVING BUILDING TYPES SUCH AS OFFICES AND MANUFACTURING FACILITIES (AND ALL OTHERS NOT EXPLICITLY EXEMPT FROM THE REQUIREMENTS OF SECTION 112 (D)) SHALL BE INSTALLED WITH AN AUTOMATIC TIME SWITCH WITH AN ACCESSIBLE MANUAL OVERRIDE THAT ALLOWS OPERATION OF THE SYSTEM DURING OFF-HOURS FOR UP TO 4 HOURS. THE TIME SWITCH SHALL BE CAPABLE OF PROGRAMMING DIFFERENT SCHEDULES FOR WEEKDAYS OR WEEKENDS. INCORPORATE AN AUTOMATIC HOLIDAY "SHUTOFF" FEATURE THAT TURNS OFF ALL LOADS FOR AT LEAST 24 HOURS, THEN RESUMES THE NORMALLY SCHEDULED OPERATION. AND HAS PROGRAM BACKUP CAPABILITIES THAT PREVENT THE LOSS OF THE DEVICES PROGRAM AND TIME SETTING FOR AT LEAST 10 HOURS IF POWER IS INTERRUPTED. |
| AIR HANDLING DUCT SYSTEMS SHALL BE CONSTRUCTED, INSTALLED, SEALED, AND INSULATED AS PROVIDED IN CHAPTER 6 OF THE CALIFORNIA MECHANICAL CODE.  | EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH CONTROLS THAT TEMPORARILY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN SETBACK HEATING AND/OR A SETUP COOLING THERMOSTAT SETPOINT. THERMOSTATS SHALL HAVE NUMERIC SETPOINTS IN DEGREES FAHRENHEIT (°F) AND ADJUSTABLE STOPS ACCESSIBLE ONLY BY AUTHORIZED PERSONNEL.   |
| <b>VENTILATION</b>  |   |
| CONTROLS SHALL BE PROVIDED TO ALLOW OUTSIDE AIR DAMPERS OR DEVICES TO BE OPERATED AT THE VENTILATION RATES AS SPECIFIED IN THESE PLANS.   |   |
| ALL GRAVITY VENTILATING SYSTEMS SHALL BE PROVIDED WITH AUTOMATIC OR READILY ACCESSIBLE MANUALLY OPERATED DAMPERS IN ALL OPENINGS TO THE OUTSIDE.  |   |
| AIR BALANCING: ALL SPACE CONDITIONING AND VENTILATION SYSTEMS SHALL BE BALANCED TO THE QUANTITIES SPECIFIED IN THESE PLANS, IN ACCORDANCE WITH THE OR ASSOCIATED AIR BALANCE COUNCIL (AABC) NATIONAL STANDARDS. |   |
| GRAVITY OR AUTOMATIC DAMPERS INTERLOCKED AND CLOSED ON FAN SHUTDOWN SHALL BE PROVIDED ON THE OUTSIDE AIR INTAKES AND DISCHARGES OF ALL SPACE CONDITIONING AND EXHAUST SYSTEMS.                                  |   |
| FANS USED FOR VENTILATION SHALL OPERATE CONTINUOUSLY DURING OCCUPIED HOURS.   |   |
| THE MINIMUM OUTDOOR AIR LISTED OR THREE COMPLETE AIR CHANGES SHALL BE SUPPLIED TO THE ENTIRE BLDG. DURING THE ONE HOUR PERIOD IMMEDIATELY BEFORE THE BLDG. IS NORMALLY OCCUPIED.                                |   |

### MECHANICAL SHEET INDEX

SHEET NO.	DESCRIPTION	SCALE
M-0.1	MECHANICAL GENERAL NOTES, ABBREVIATIONS & SYMBOLS	NONE
M-0.2	MECHANICAL SCHEDULES	NONE
M-0.3	MECHANICAL DETAILS	NONE
M-0.4	MECHANICAL CONTROL DIAGRAMS	NONE
M-0.5	MECHANICAL CONTROL DIAGRAMS	NONE
M-2.1	BASEMENT MECHANICAL PLAN	1/8"=1'-0"
M-2.2	FIRST FLOOR MECHANICAL PLAN	1/8"=1'-0"
M-2.3	MEZZANINE MECHANICAL PLAN	1/8"=1'-0"
M-3.1	MECHANICAL ROOF PLAN	1/8"=1'-0"

- ### ACCEPTANCE TESTING
- MANDATORY ACCEPTANCE TESTING PER TITLE 24, PART 6 SECTION 125 SHALL BE AS FOLLOWS:
- AN AABC AGENCY SHALL ACT AS THE ACCEPTANCE AGENT AND PERFORM WORK REQUIRED IN THE FOLLOWING ACCEPTANCE TESTS AS DESCRIBED IN CHAPTER 8 OF THE 2005 NONRESIDENTIAL COMPLIANCE MANUAL. THIS SHALL INCLUDE FILLING OUT, SIGNING, AND SUBMITTING MECH-1-A FORM AND OTHER APPLICABLE FORMS LISTED HEREIN.
- MECH-2-A-VENTILATION SYSTEM
  - MECH-3-A-PACKAGED HVAC SYSTEM
  - MECH-4-A-AIRSIDE ECONOMIZER
  - MECH-5-A-AIR DISTRIBUTION
  - MECH-6-A-DEMAND CONTROL VENTILATION
  - MECH-7-A-SUPPLY FAN VARIABLE FLOW CONTROLS
  - MECH-8-A-HYDRONIC SYSTEM CONTROL
- SPECIFIC REQUIREMENTS AND ACCEPTANCE TESTING FORMS ARE AVAILABLE IN THE 2005 NONRESIDENTIAL COMPLIANCE MANUAL WHICH CAN BE DOWNLOADED FROM [www.energy.ca.gov/title24/2005standards/](http://www.energy.ca.gov/title24/2005standards/).

- ### DUCT SUPPORT NOTES
- ALL BRACING OF DUCTS AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH MASON SEISMIC RESTRAINT GUIDELINES FOR SEISMIC RESTRAINT OF MECHANICAL SYSTEMS. OSHPD PRE-APPROVAL # OPA-0349.
- WHERE ANCHORAGE & BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, MECHANICAL ENGINEER AND THE INSPECTOR.
- A COPY OF THE GUIDELINES PUBLISHED BY "MASON" SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB SITE AT ALL TIMES.

### PACKAGE VAV / A/C UNIT SCHEDULE

SYM.	MFR./MODEL	COOLING @ 115F DB/ 73WB SENSIBLE(MBH)		EER	HEATING			SUPPLY FAN			EXHAUST FAN			O.S.A. CFM	FILTERS	ELECTRICAL					OPER. WT. (LBS.)	REMARKS	BLDG. LOCATION		
		TOTAL(MBH)			MBH	GAS INPUT	GAS OUTPUT	LAT	CFM	ESP	HP	CFM	ESP			HP	VOLT	PHASE	HERTZ	FLA				MCA	MOCAP
AC-1	TRANE SFHFC20	232.0	237.4	10.2	204.97	235	192.7	96.9	6,600	1.25	5	6,600	0.5	1.5	2,150	30%	460	3	60	-	55.4	70	5,800		
AC-2	TRANE SFHFC30	354.3	357.3	10.3	313.2	350	287.0	91.9	12,100	1.25	15	11,500	0.5	5	1,100	30%	460	3	60	-	94.7	110	5,800	FOR AC-1, AC-2 & AC-3, PROVIDE DUCT SMOKE DETECTOR FOR AUTOMATIC SHUT-DOWN OF UNITS, OR SIMILAR APPROVED METHOD. INTERCONNECT WITH FIRE ALARM SYSTEM. (COMPLY WITH MC 669)	
AC-3	TRANE SFHFC20	197.8	240.4	10.2	201	235	192.7	96.9	5,500	1.0	5	4,900	0.5	1.5	1,700	30%	460	3	60	-	55.4	70	5,800		
AC-4	BAIRD WA242	-	18.3	9.2	-	-	-	-	1100	0.1	1/6	-	-	-	30%	208	3	60	-	14.5	15.1	300			

### SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE

SYM.	MFR./MODEL	COOLING(MBH)		SEER	HEATING(MBH)		CFM	ESP	OSA CFM	ELECTRICAL		OPER. WT. (LBS.)	SYM.	MFR./MODEL	REFRIGERANT	ELECTRICAL		OPER. WT.-LBS	REMARKS	BLDG. LOCATION	
		TOTAL	SENSIBLE		HSPF	OUTPUT				MCA	MFS					VOLT	PH				MCA
FC-1	MITSUBISHI PKA-A1B	18.0	-	13	-	-	300	0.1	-	1	15	208 1/8	CU-1	MITSUBISHI PUY-18NHA	R-410A	13	20	208 1/8	120	PROVIDE INTERNAL CONDENSATE PUMP, LOW AMBIENT KIT, MOUNTING BRACKET, AND HARD WIRE CONTROL.	SERVER B04
FC-2	MITSUBISHI PKA-A1B	18.0	-	13	-	-	300	0.1	-	1	15	208 1/8	CU-2	MITSUBISHI PUY-18NHA	R-410A	13	20	208 1/8	120	PROVIDE INTERNAL CONDENSATE PUMP, LOW AMBIENT KIT, MOUNTING BRACKET, AND HARD WIRE CONTROL.	SERVER B04
FC-3	TRANE 4TEC3F60	58.1	42.9	13	7.7	58.0	2000	0.5	240	9	15	208 1/8	HP-1	TRANE 4TEB3060	R-410A	36	60	208 1/8	325	PROVIDE CONDENSATE PUMP, AND CONTROL.	STUDENT ACT. 02
SFC-1	MITSUBISHI PMFY-P08	18.0	-	-	-	20.0	494	0.1	120	0.85	208 1/8	70	SHP-1	MITSUBISHI PURY-P08	R-410A	34	50	208 3/8	574	PROVIDE SYSTEM WITH BC CONTROLLER "CMB-P108NU-G" LITTLE GIANT "VCMA-15" CONDENSATE PUMP, LOW AMBIENT KIT AND "LMAPO3U" INTERFACE. PROVIDE FAN COIL WITH MOUNTING BRACKET, WIRE CONTROL, AND INTERNALLY MOUNTED CONDENSATE PUMP.	STAFF DEV. M03
SFC-2	MITSUBISHI PMFY-P12	12.0	-	-	-	13.5	388	0.1	60	0.85	208 1/8	70							FAN COIL UNIT CONNECTS TO SHP-1 VIA BC CONTROLLER. PROVIDE MOUNTING BRACKET, WIRE CONTROL, AND INTERNALLY MOUNTED CONDENSATE PUMP.	MEET. M04	
SFC-3	MITSUBISHI PMFY-P08	8.0	-	-	-	9.0	260	0.1	20	0.25	208 1/8	50							FAN COIL UNIT CONNECTS TO SHP-1 VIA BC CONTROLLER. PROVIDE MOUNTING BRACKET, WIRE CONTROL, AND INTERNALLY MOUNTED CONDENSATE PUMP.	BUILD. MAIN 05	
SFC-4	MITSUBISHI PMFY-P08	8.0	-	-	-	9.0	260	0.1	60	0.25	208 1/8	50							FAN COIL UNIT CONNECTS TO SHP-1 VIA BC CONTROLLER. PROVIDE MOUNTING BRACKET, WIRE CONTROL, AND INTERNALLY MOUNTED CONDENSATE PUMP.	GROUP STUDY 26	
SFC-5	MITSUBISHI PMFY-P08	8.0	-	-	-	9.0	260	0.1	60	0.25	208 1/8	50							FAN COIL UNIT CONNECTS TO SHP-1 VIA BC CONTROLLER. PROVIDE MOUNTING BRACKET, WIRE CONTROL, AND INTERNALLY MOUNTED CONDENSATE PUMP.	MEET. 12	
SFC-6	MITSUBISHI PDFY-30	30.0	-	-	-	34.0	750	0.4	90	1.2	208 1/8	86	SHP-2	MITSUBISHI PURY-P144	R-410A	43.8	60	208 3/8	672	PROVIDE SYSTEM WITH BC CONTROLLER "CMB-P108NU-G" LITTLE GIANT "VCMA-15" CONDENSATE PUMP, LOW AMBIENT KIT AND "LMAPO3U" INTERFACE. PROVIDE FAN COIL WITH MOUNTING BRACKET, WIRE CONTROL, AND INTERNALLY MOUNTED CONDENSATE PUMP.	GROUP STUDY 25
SFC-7	MITSUBISHI PDFY-30	30.0	-	-	-	34.0	750	0.4	30	1.2	208 1/8	86							FAN COIL UNIT CONNECTS TO SHP-2 VIA BC CONTROLLER. PROVIDE MOUNTING BRACKET, WIRE CONTROL, AND INTERNALLY MOUNTED CONDENSATE PUMP.	GROUP STUDY 21	
SFC-8	MITSUBISHI PDFY-30	30.0	-	-	-	34.0	750	0.4	30	1.2	208 1/8	86							FAN COIL UNIT CONNECTS TO SHP-2 VIA BC CONTROLLER. PROVIDE MOUNTING BRACKET, WIRE CONTROL, AND INTERNALLY MOUNTED CONDENSATE PUMP.	GROUP STUDY 19	
SFC-9	MITSUBISHI PDFY-P36	36.0	-	-	-	40.0	980	0.4	90	1.64	208 1/8	115							FAN COIL UNIT CONNECTS TO SHP-2 VIA BC CONTROLLER. PROVIDE MOUNTING BRACKET, WIRE CONTROL, AND INTERNALLY MOUNTED CONDENSATE PUMP.	COMM. MEET. 15	
SFC-10	MITSUBISHI PLY-P12	12.0	-	-	-	13.5	388	0.1	60	0.85	208 1/8	70							FAN COIL UNIT CONNECTS TO SHP-1 VIA BC CONTROLLER. PROVIDE MOUNTING BRACKET, WIRE CONTROL, AND INTERNALLY MOUNTED CONDENSATE PUMP.	ELECT. RM. B18	

\* BC CONTROLLER REQUIRES 208V/1PH POWER.

### ZONE DAMPER SCHEDULE

SYM.	MFR./MODEL	QTY	SIZE	MAXIMUM CFM	MINIMUM CFM	VOLT/PH	REMARKS	BLDG. LOCATION
ZD-1	PRICE SDVLP	10"	950	350	120/1#	VARI-TRANE CONTROL		B13
ZD-2	PRICE SDVLP	10"	950	350	120/1#	VARI-TRANE CONTROL		B15
ZD-3	PRICE SDVLP	10"	770	300	120/1#	VARI-TRANE CONTROL		B11
ZD-4	PRICE SDVLP	10"	910	280	120/1#	VARI-TRANE CONTROL		B10
ZD-5	PRICE SDVLP	10"	1150	350	120/1#	VARI-TRANE CONTROL		B09
ZD-6	PRICE SDVLP	10"	730	220	120/1#	VARI-TRANE CONTROL		B08
ZD-7	PRICE SDVLP	10"	1,150	350	120/1#	VARI-TRANE CONTROL		B07
ZD-8	PRICE SDVLP	10"	900	270	120/1#	VARI-TRANE CONTROL		B05
ZD-9	PRICE SDVLP	4"	60	20	120/1#	VARI-TRANE CONTROL		B06
ZD-10	PRICE SDVLP	4"	60	20	120/1#	VARI-TRANE CONTROL		B03
ZD-11	PRICE SDVLP	6"	340	110	120/1#	VARI-TRANE CONTROL		B02
ZD-12	PRICE SDV	14"	2050	650	120/1#	VARI-TRANE CONTROL		MEZZ.
ZD-13	PRICE SDV	14"	2050	650	120/1#	VARI-TRANE CONTROL		MEZZ.
ZD-14	PRICE SDV	14"	2150	650	120/1#	VARI-TRANE CONTROL		MEZZ.
ZD-15	PRICE SDV	14"	2150	650	120/1#	VARI-TRANE CONTROL		MEZZ.
ZD-16	PRICE SDV	14"	2300	690	120/1#	VARI-TRANE CONTROL		ADMIN.
ZD-17	PRICE SDV	14"	2300	690	120/1#	VARI-TRANE CONTROL		ADMIN.

### EXHAUST FAN SCHEDULE

SYM.	MFR./MODEL	TYPE	CFM	S.P. INCHES	RPM	SONES	ELECTRICAL WATT	HP	VOLT	OPER. WT. LBS	REMARKS	BLDG. LOCATION
EF-1	COOK 135 C38	ROOF MOUNTED	1135	0.5	1068	7.4	-	1/8	115/1#	80	PROVIDE WITH PITCHED ROOF CURB, BACKDRAFT DAMPER, BIRDSCREEN. INTERLOCK TO EMS.	1ST & 2ND RESTROOM

### INTAKE HOOD SCHEDULE

SYM.	MFR./MODEL	CFM	CFM AT 500 FPM VELOCITY	P.D. INCHES	THROAT AREA SQ. FT.	THROAT SIZE	HOOD SIZE	WEIGHT LBS.	REMARKS	BLDG. LOCATION
IH-1	COOK PR-12	380	1020	0.05	.852	12 1/2"	12	30		

### AIR DISTRIBUTION SCHEDULE

SYM.	CFM	MAX. P.D. INCHES	MAX. NC	NECK SIZE	MANUF./MODEL	REMARKS
CD-1	50-200	0.10	30	6"	"PRICE" #SPD*	SQUARE PLAQUE CEILING DIFFUSER, STEEL CONSTRUCTION, BRIGHT WHITE POWDER COAT FINISH.
	201-350	0.10	30	8"		
	351-500	0.10	30	10"		
	501-700	0.10	30	12"		
	701-900	0.10	30	14"		
RG-1/ EG-1	50-125	0.10	30	6"x6"	"PRICE" #530	LOUVERED RETURN/EXHAUST GRILLE, STEEL CONSTRUCTION, BRIGHT WHITE POWDER COAT FINISH.
	126-250	0.10	30	8"x8"		
	251-375	0.10	30	10"x10"		
	376-550	0.10	30	12"x12"		
	551-700	0.10	30	14"x14"		
	701-950	0.10	30	16"x16"		
	951-1400	0.10	30	18"x18"		
SWR-1	50-180	0.10	30	8"x6"	"PRICE" 530D	SIDEWALL RETURN GRILLE, BRIGHT WHITE POWDER COAT FINISH, 45° DEFLECTION.
	181-325	0.10	30	16"x6"		
	326-450	0.10	30	20"x6"		
	451-550	0.10	30	26"x6"		
	551-800	0.10	30	28"x8"		
	801-1100	0.10	30	32"x8"		
	1101-1400	0.10	30	24"x16"		
SWR-2	50-180	0.10	30	8"x6"	"PRICE" 530D	SIDEWALL RETURN GRILLE, BRIGHT WHITE POWDER COAT FINISH, 45° DEFLECTION.
	181-325	0.10	30	12"x8"		
	326-450	0.10	30	14"x10"		
	451-550	0.10	30	14"x12"		
	551-800	0.10	30	16"x14"		
	801-1100	0.10	30	20"x16"		
	1101-1400	0.10	30	20"x18"		

NOTE: • CEILING DIFFUSER THROWS SHALL BE 4-WAY UNLESS OTHERWISE NOTED.  
 • PROVIDE REMOTE CABLE OPERATED DAMPER ("ROTIOWST" OR APPROVED EQUIVALENT) AT HARD CEILINGS.  
 • ALL AIR DISTRIBUTION DEVICES TO HAVE CONCEALED MOUNTING OPTION.  
 • PROVIDE FILLER PANEL FOR AIR DISTRIBUTION INSTALLED IN LAY-IN CEILINGS.  
 • ALL AIR DISTRIBUTION TO PERFORM AT NC-30 OR LOWER SOUND LEVELS.  
 • FOR 2-WAY PATTERN, INSTALL QUADRANT BLANKS.



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**CLAYPOOL BUILDING RECONSTRUCTION**  
PALO VERDE COLLEGE, NEEDLES CENTER

PAOLO VERDE COMMUNITY COLLEGE DISTRICT  
725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363

**MECHANICAL EQUIPMENT SCHEDULES**

DATE: 07-06-07

JOB NO: 2007-SH95-03

DRAWN: [Signature]

CHECKED: [Signature]

INCHES: [Signature]

MINA

SHEET NO. **M0.2**

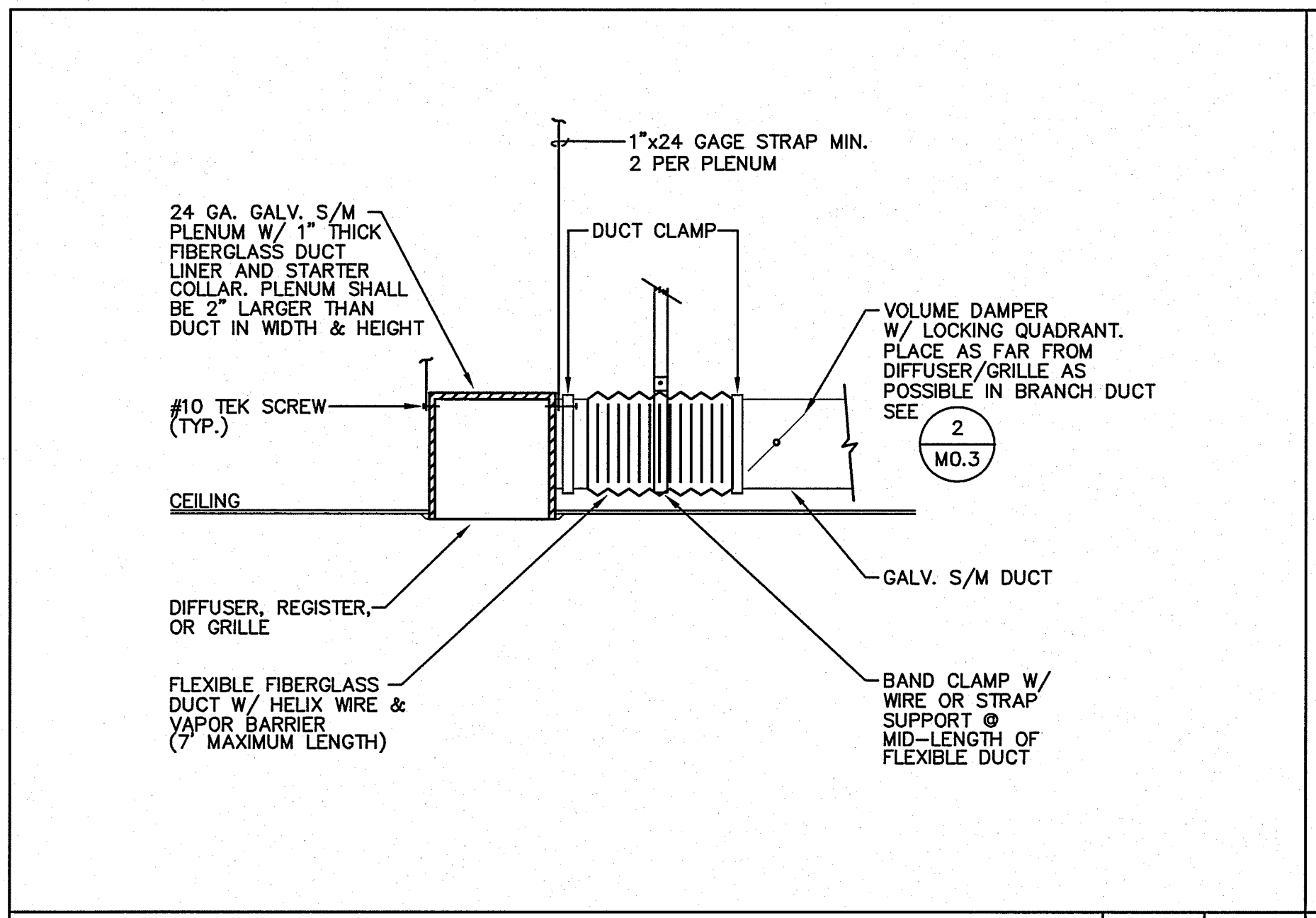
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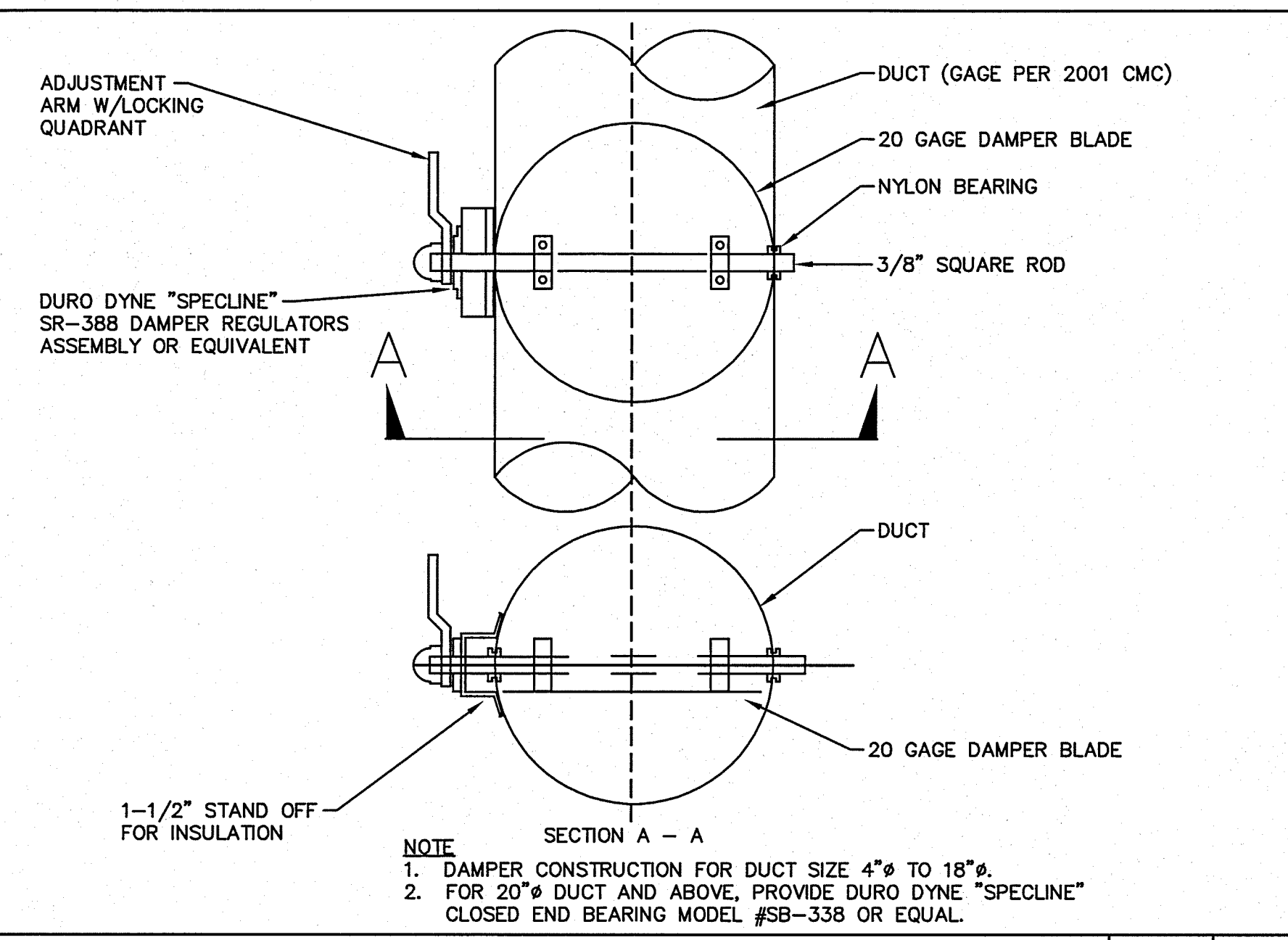
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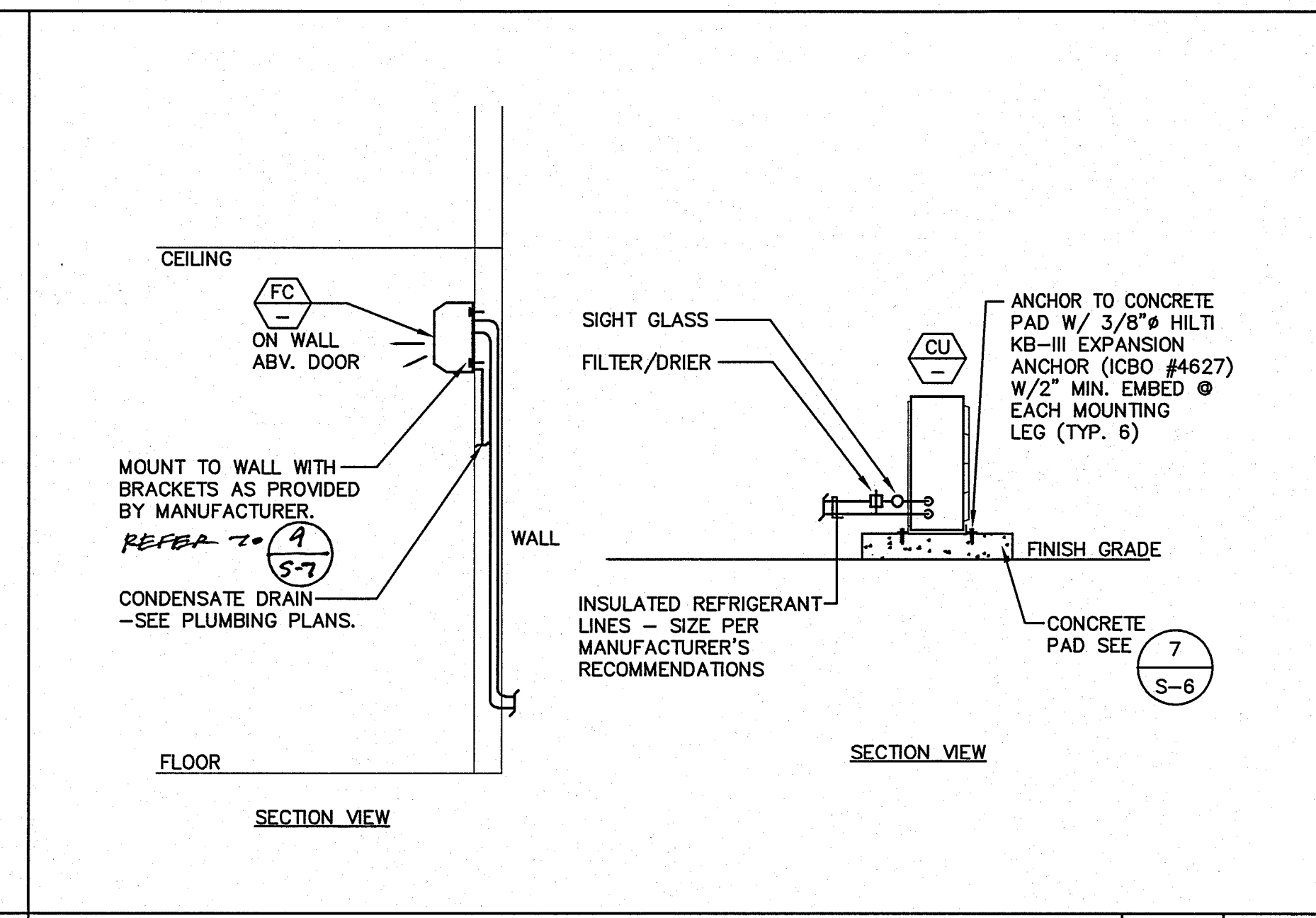
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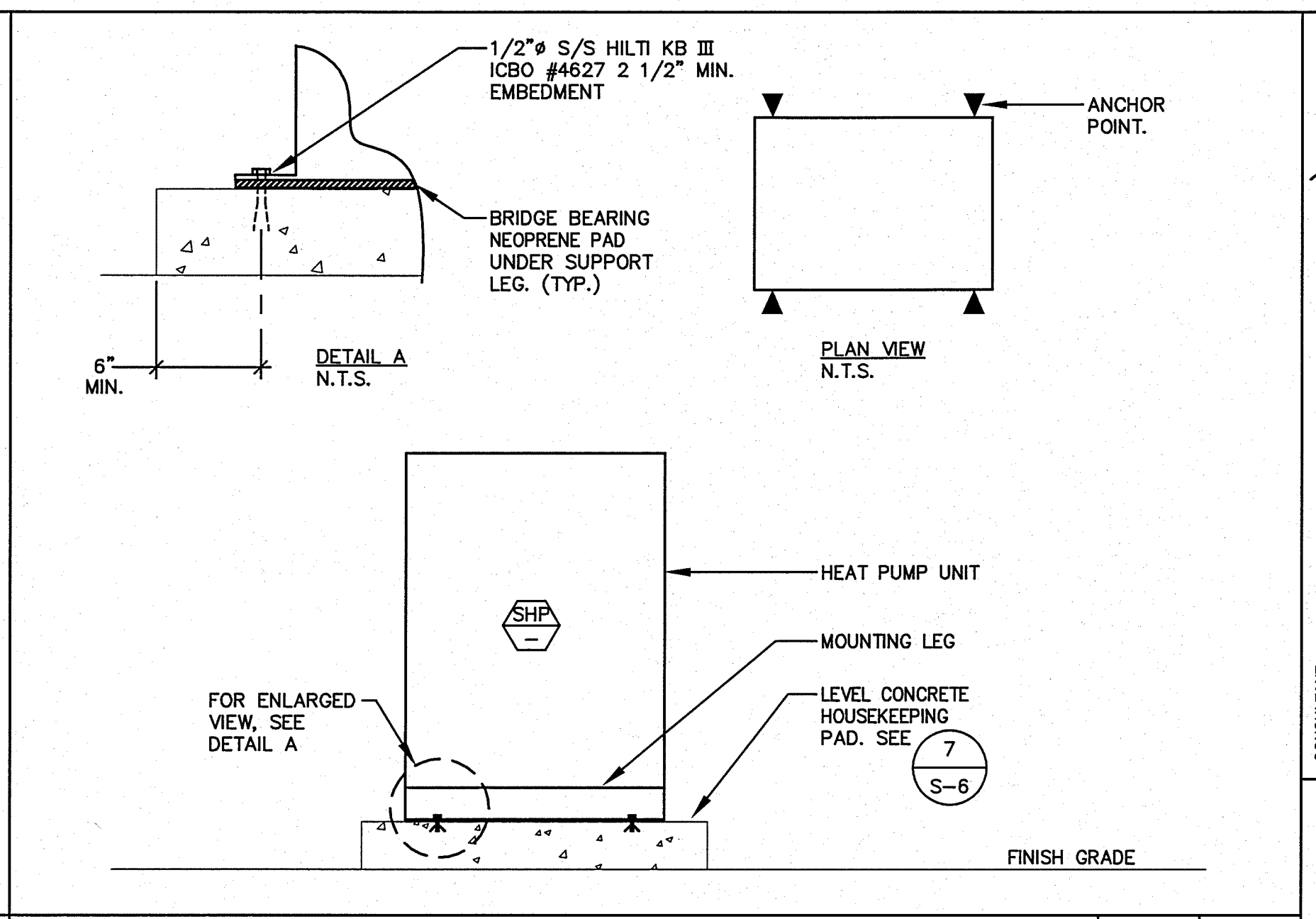
**AIR REGISTER DETAIL** SCALE: NONE 1



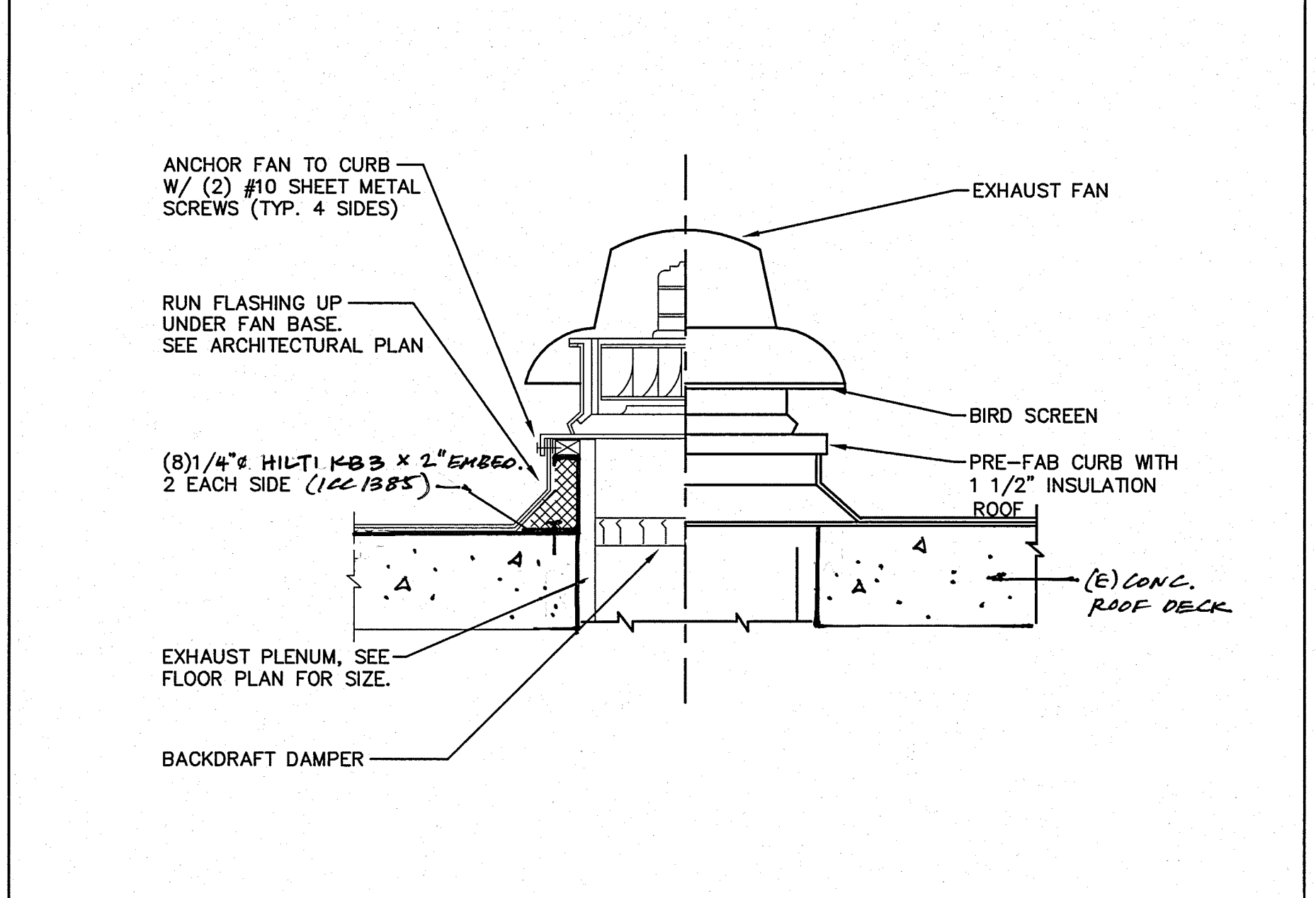
**VOLUME DAMPER DETAIL** SCALE: NONE 2



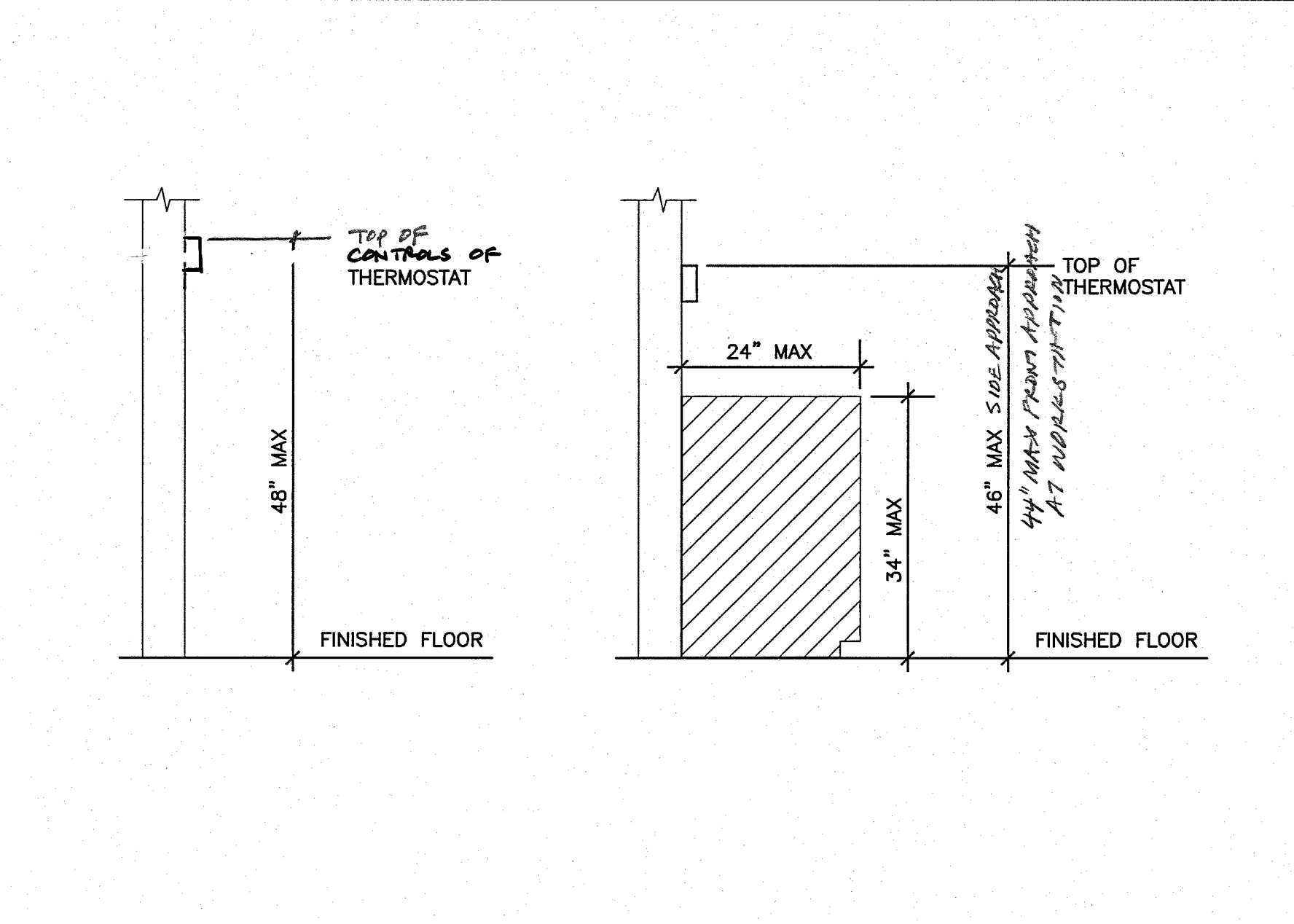
**SPLIT SYSTEM A/C UNIT DETAIL** SCALE: NONE 3



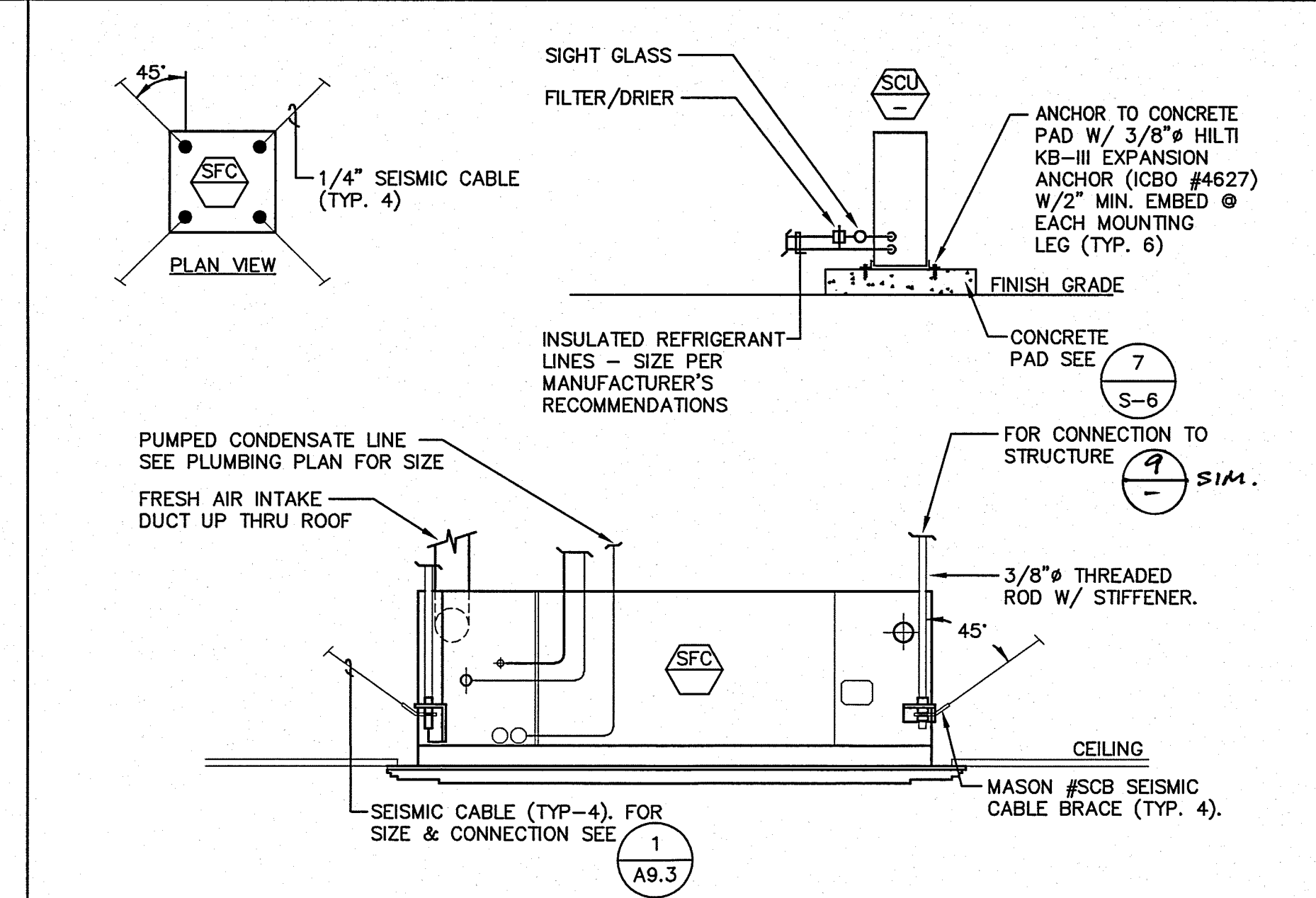
**CONDENSING UNIT DETAIL** SCALE: NONE 4



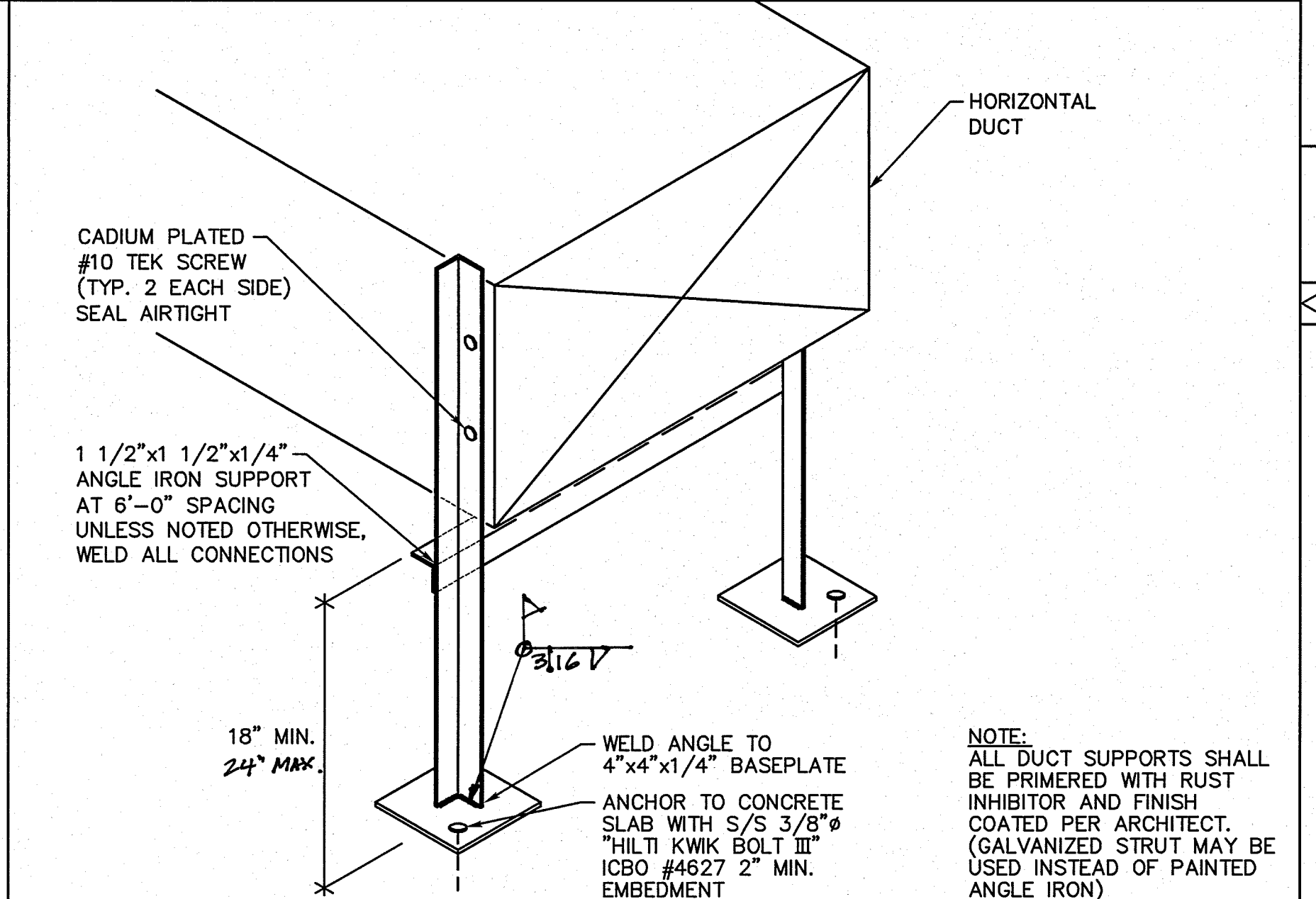
**ROOF MOUNTED EXHAUST FAN DETAIL** SCALE: NONE 5



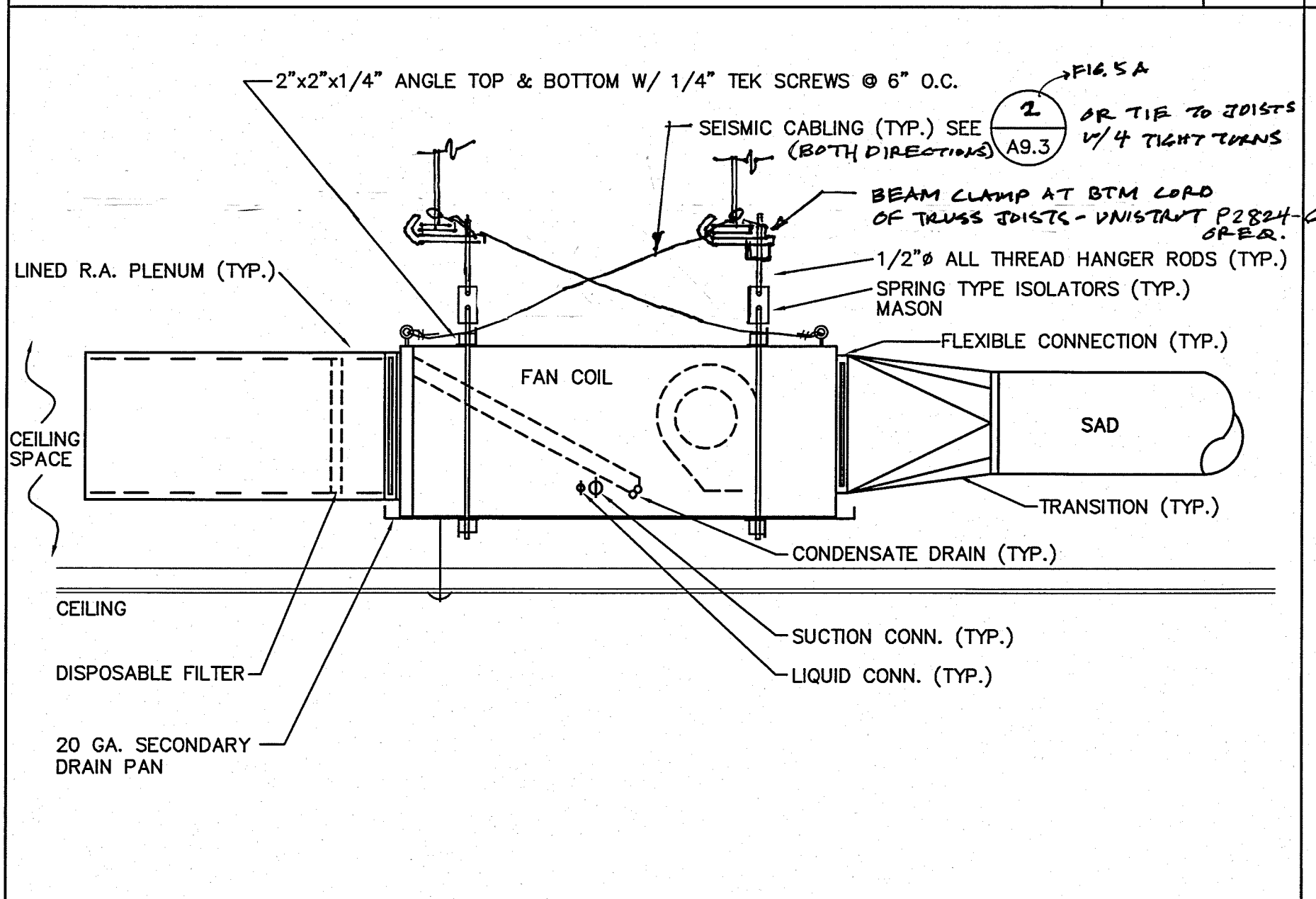
**THERMOSTAT MOUNTING DETAIL** SCALE: NONE 6



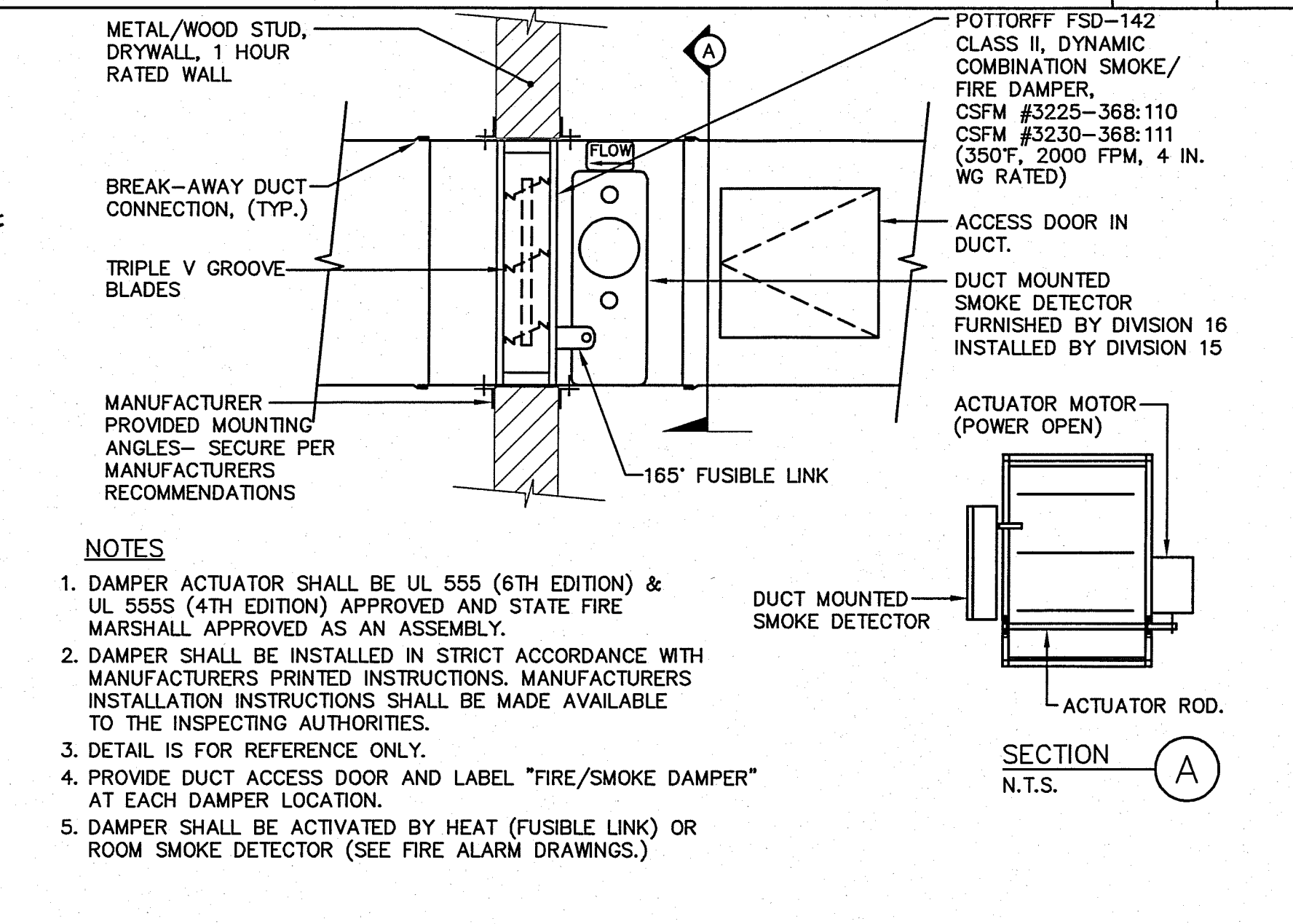
**SPLIT SYSTEM HEAT PUMP DETAIL** SCALE: NONE 7



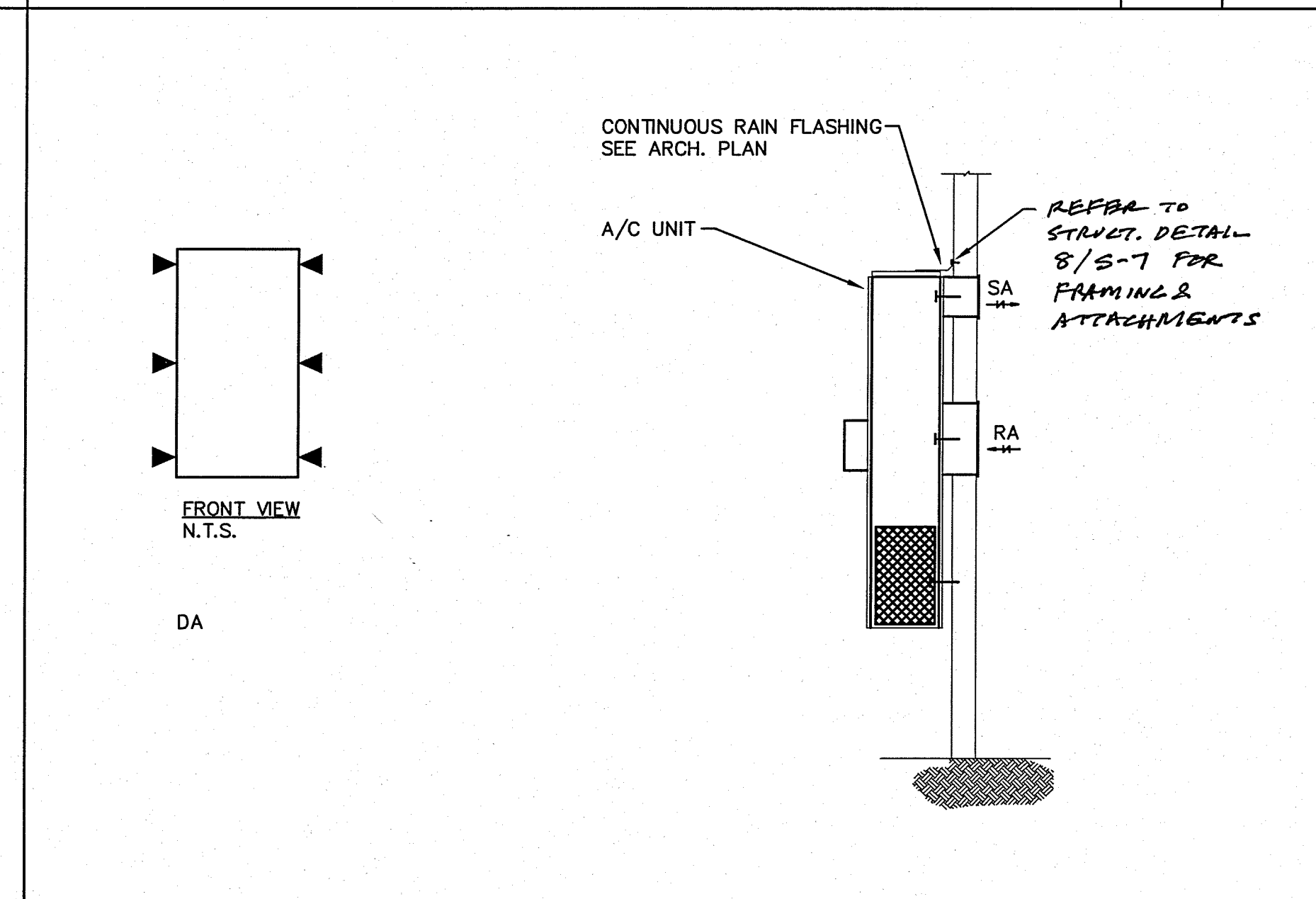
**DUCT SUPPORT ON CONCRETE PAD DETAIL** SCALE: NONE 8



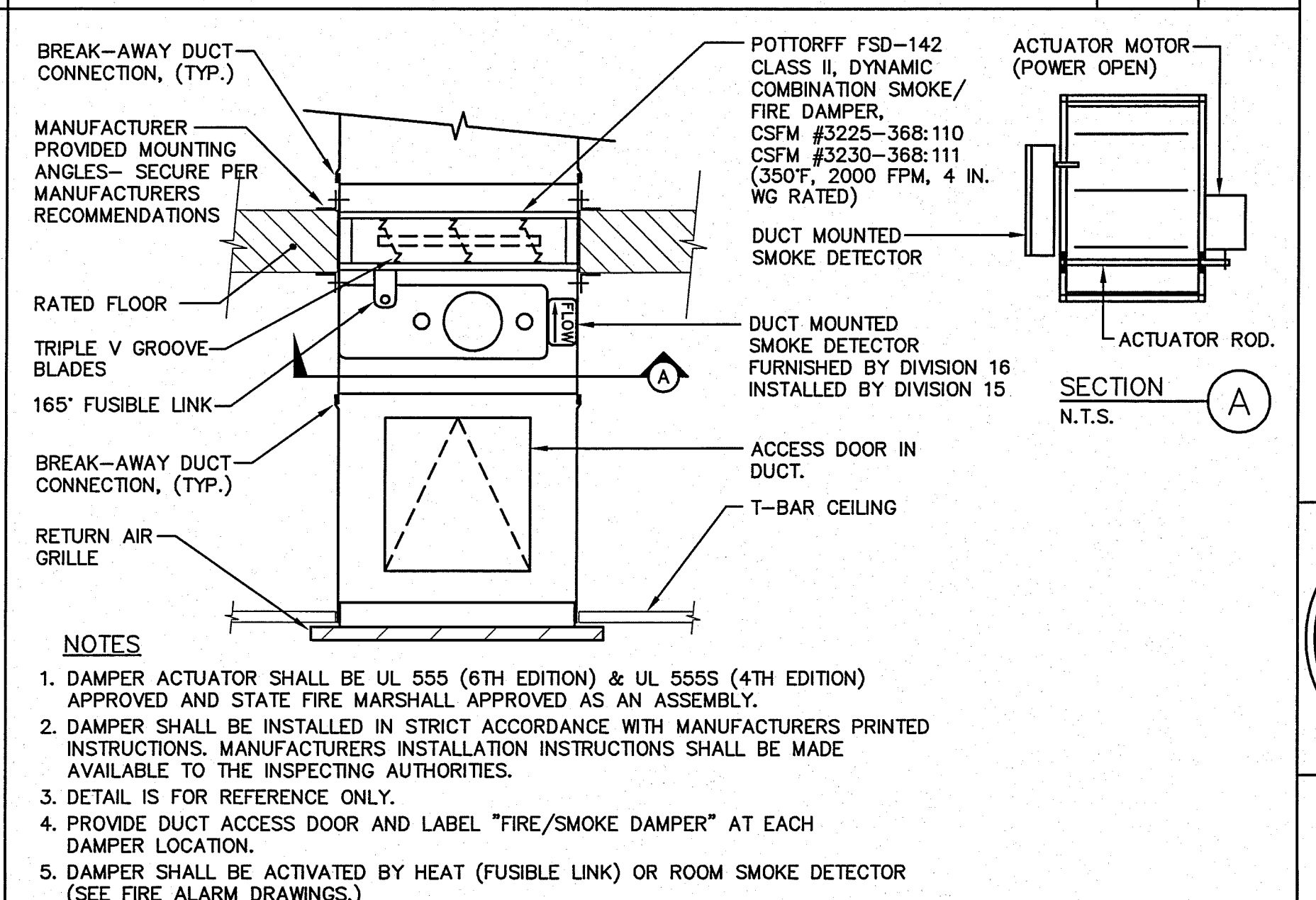
**FAN COIL UNIT DETAIL** SCALE: NONE 9



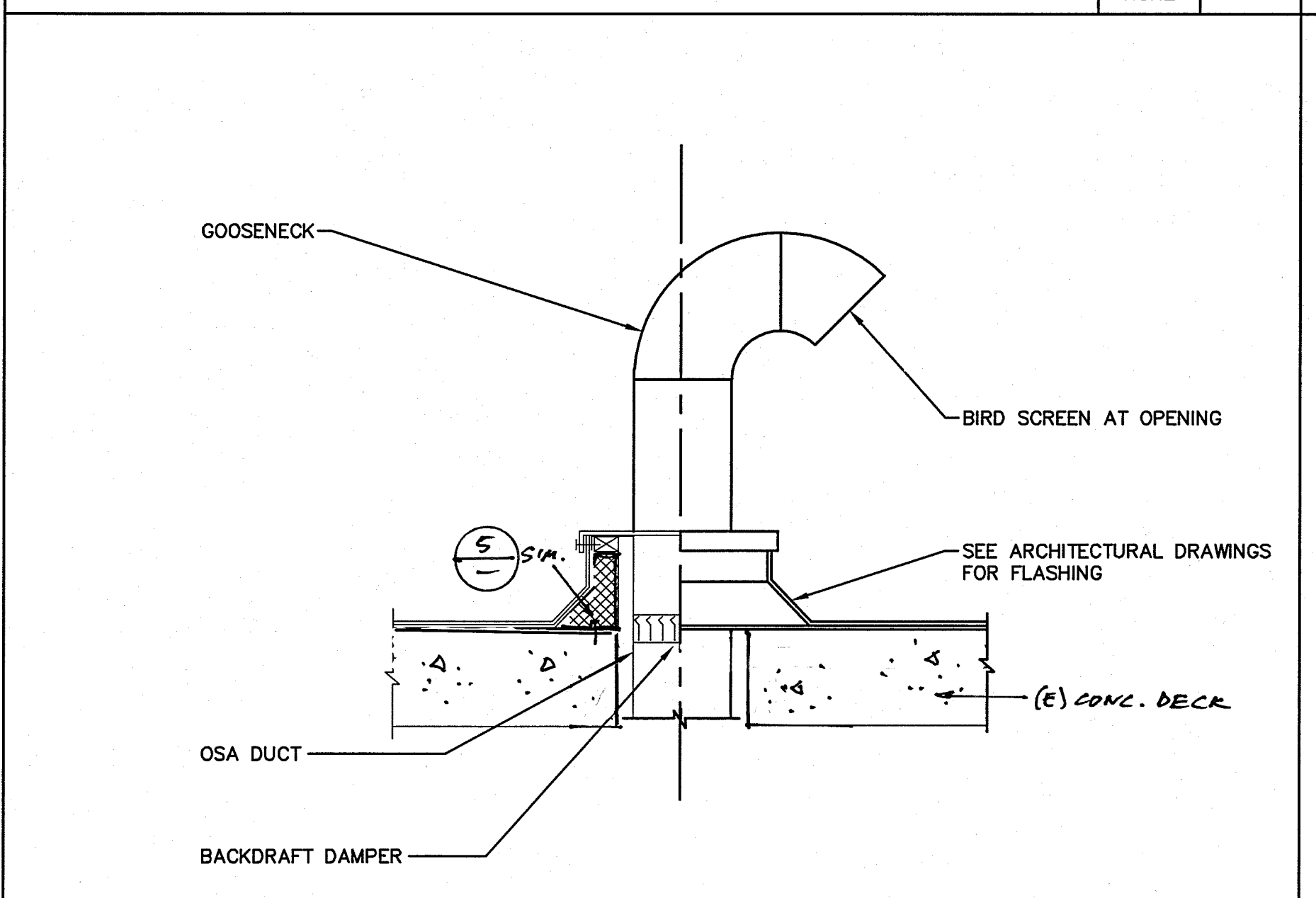
**COMBINATION SMOKE/FIRE DAMPER DETAIL** SCALE: NONE 10



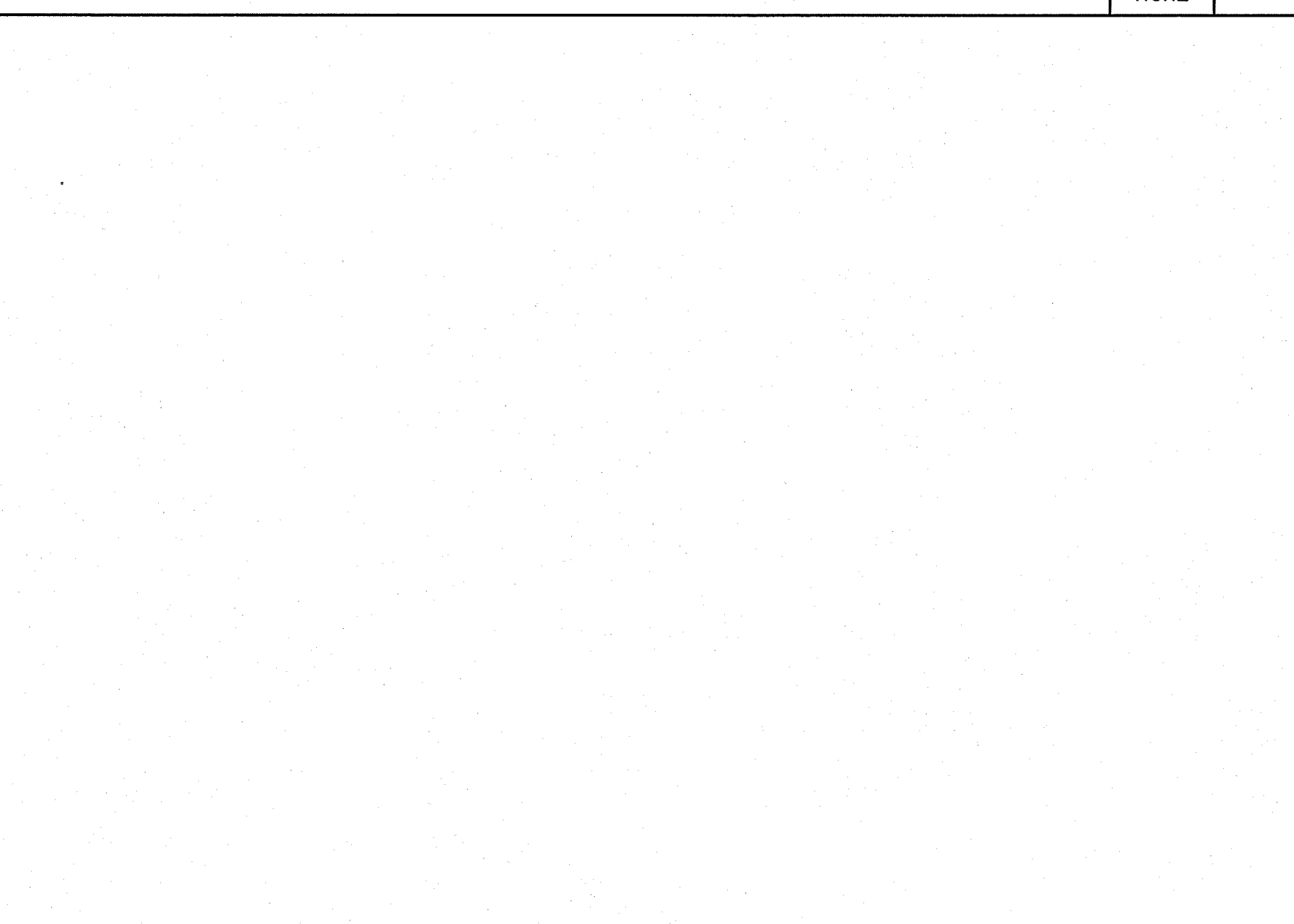
**WALL MOUNTED A/C UNIT DETAIL** SCALE: NONE 11



**HORIZONTAL COMBINATION SMOKE/FIRE DAMPER** SCALE: NONE 12



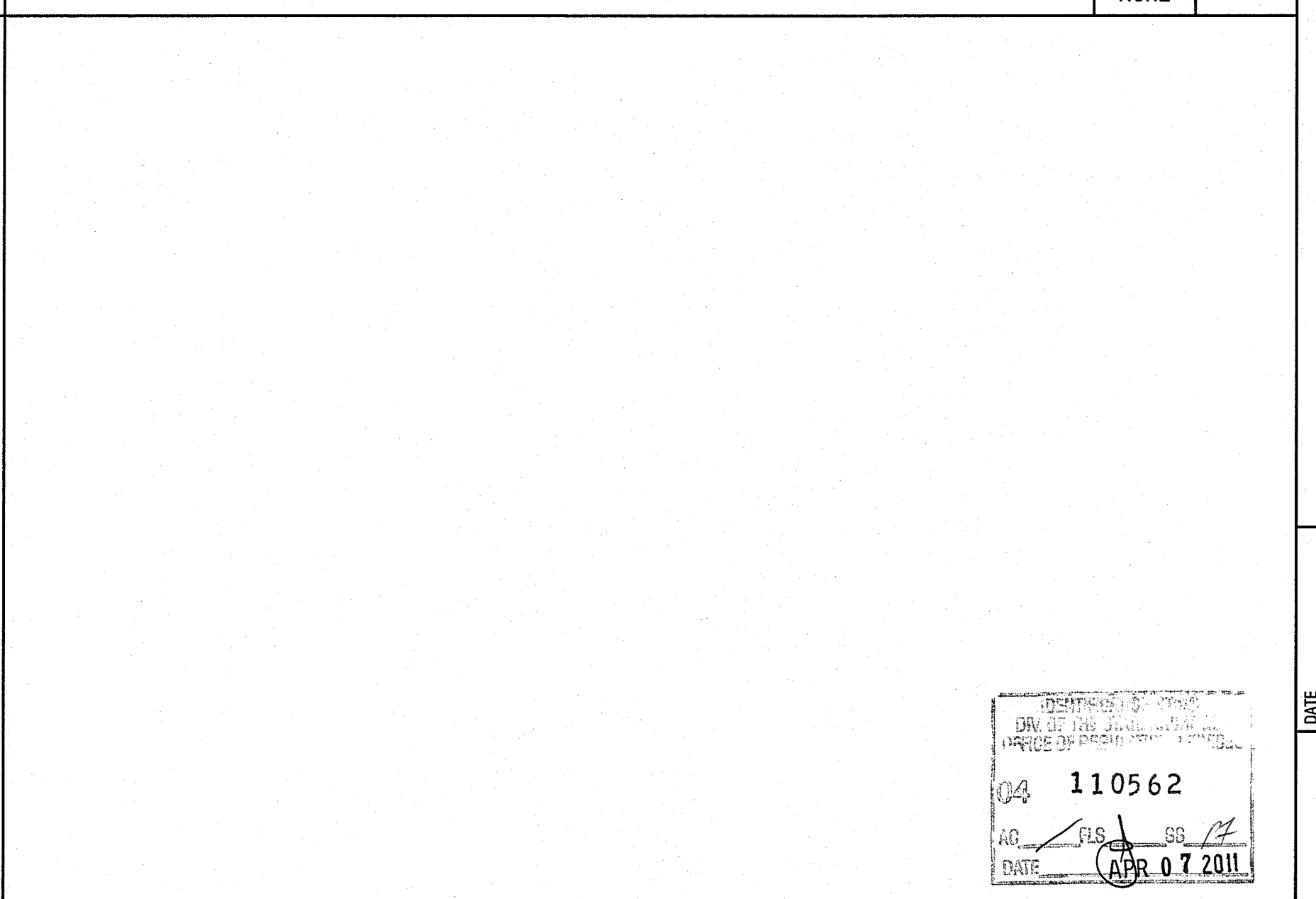
**OUTSIDE AIR INTAKE DETAIL** SCALE: NONE 13



SCALE: NONE 14



SCALE: NONE 15



SCALE: NONE 16

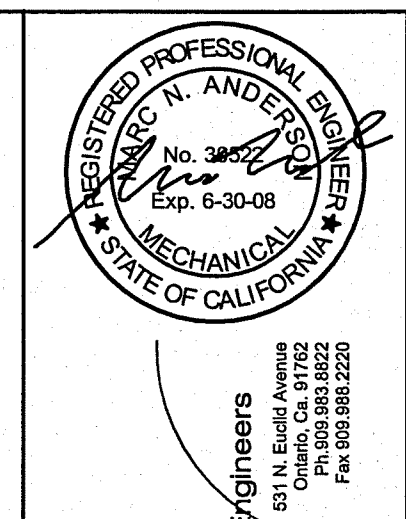
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 Architecture & Planning  
 Jay R. Title, AIA, Architect, C-12855  
 James G. Spencer, AIA, Architect, C-6485  
 Stephen R. Hoskins, AIA, Architect, C-7723

CLAYPOOL BUILDING RECONSTRUCTION  
 PALO VERDE COLLEGE, NEEDLES CENTER  
 PALO VERDE COMMUNITY COLLEGE DISTRICT  
 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363

DATE: 07-08-07  
 JOB NO.: 2007-SH05-00  
 DRAWN BY: JTB  
 CHECKED BY: JTB  
 SHEET NO.: **M0.3**  
 SHEET OF

110562  
 APR 07 2011

CONTRACT NO. 07-08-07  
 PROJECT NO. 2007-SH05-00  
 SHEET NO. M0.3  
 SHEET OF

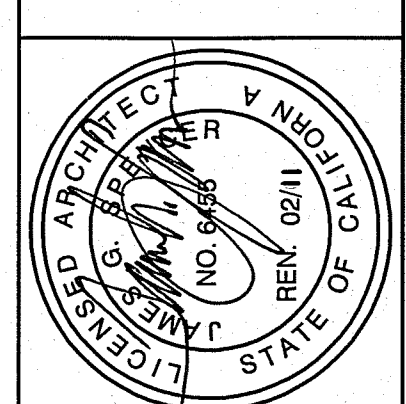


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NO.	DATE	REVISIONS

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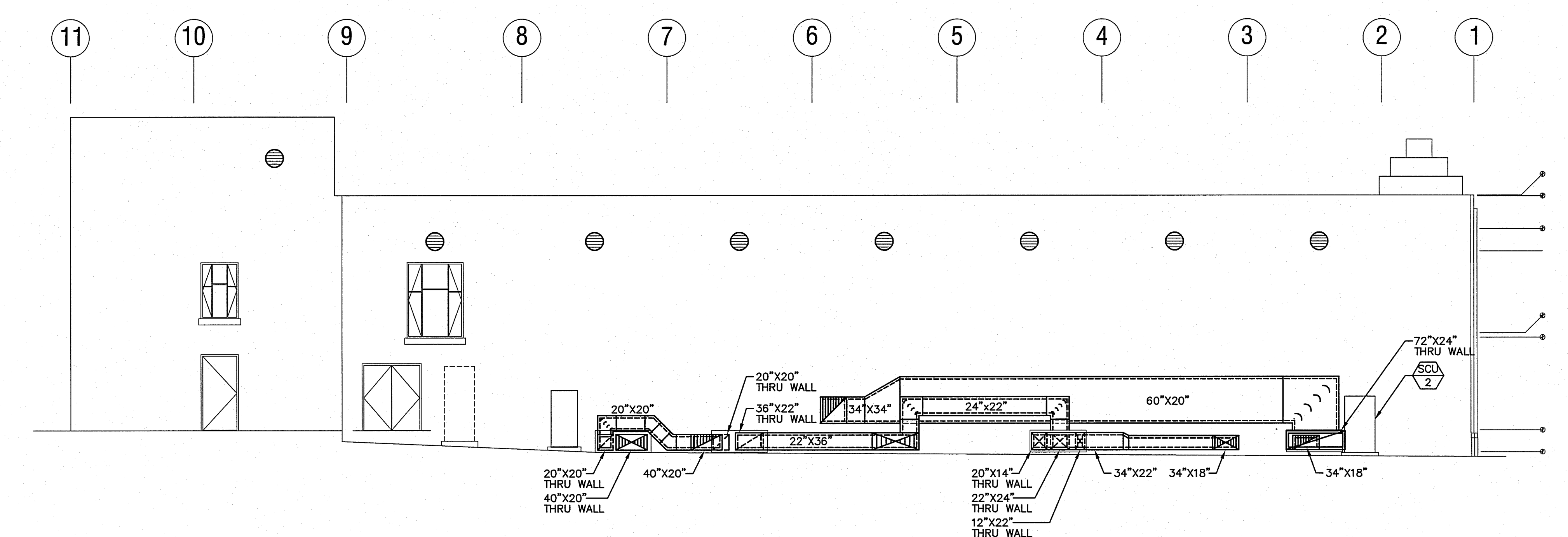
SPENCER / HOSKINS associates  
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Jay R. Titte, AIA, Architect C-12955  
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Stephen H. Hoskins, AIA, Architect C-1723



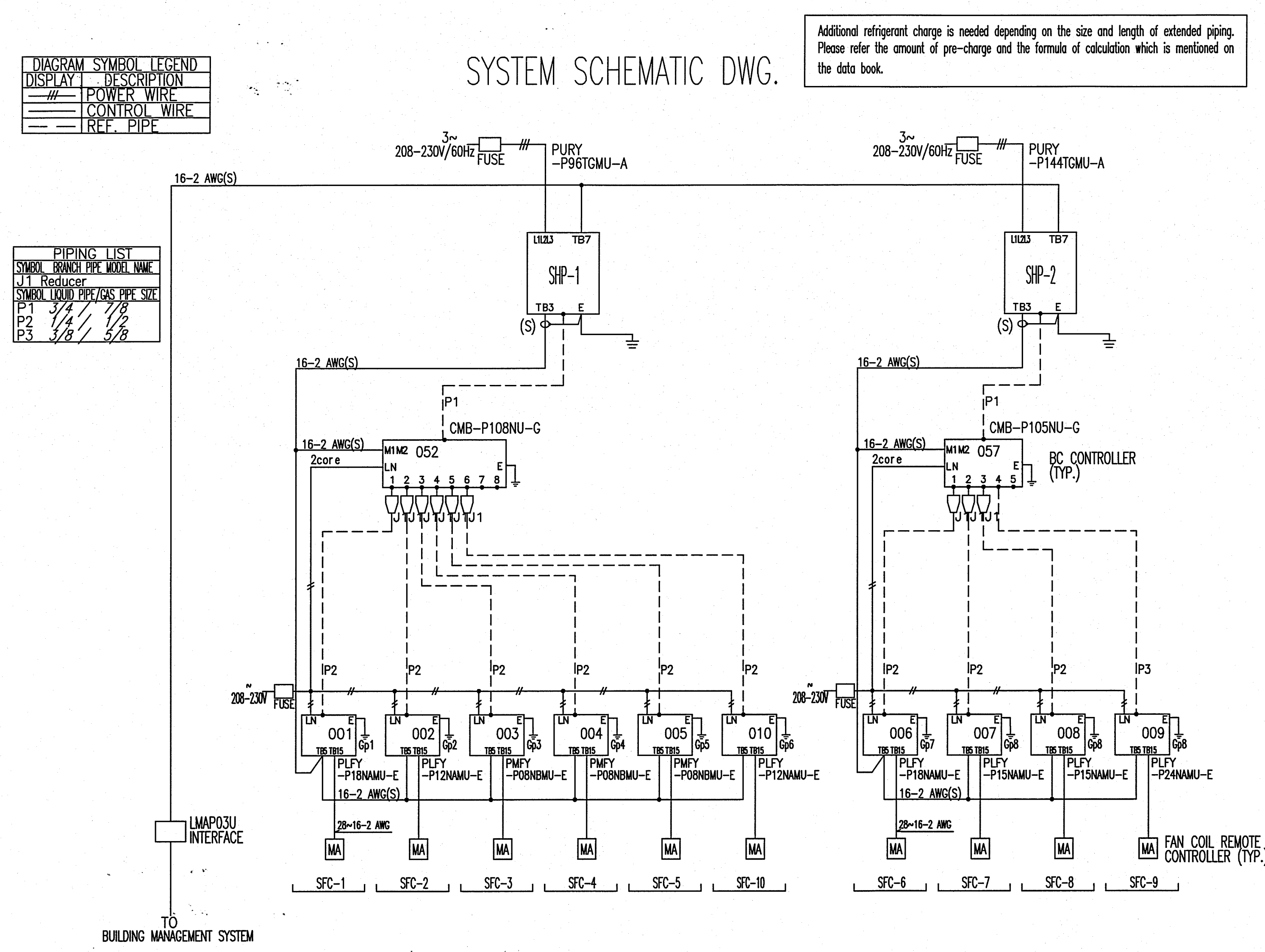
CLAYPOOL BUILDING RECONSTRUCTION  
PALO VERDE COLLEGE, NEEDLES CENTER  
PALO VERDE COMMUNITY COLLEGE DISTRICT  
725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363  
MECHANICAL CONTROL DIAGRAMS

DATE	07-06-07
JOB NO.	2007-SHS-00
DESIGN	ACDET
CHECKED	MANA
DATE	07-20-07
DATE	07-20-07

SHEET NO. 110562  
DATE 07-20-07  
M0.4



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



SYSTEM SCHEMATIC DWG.

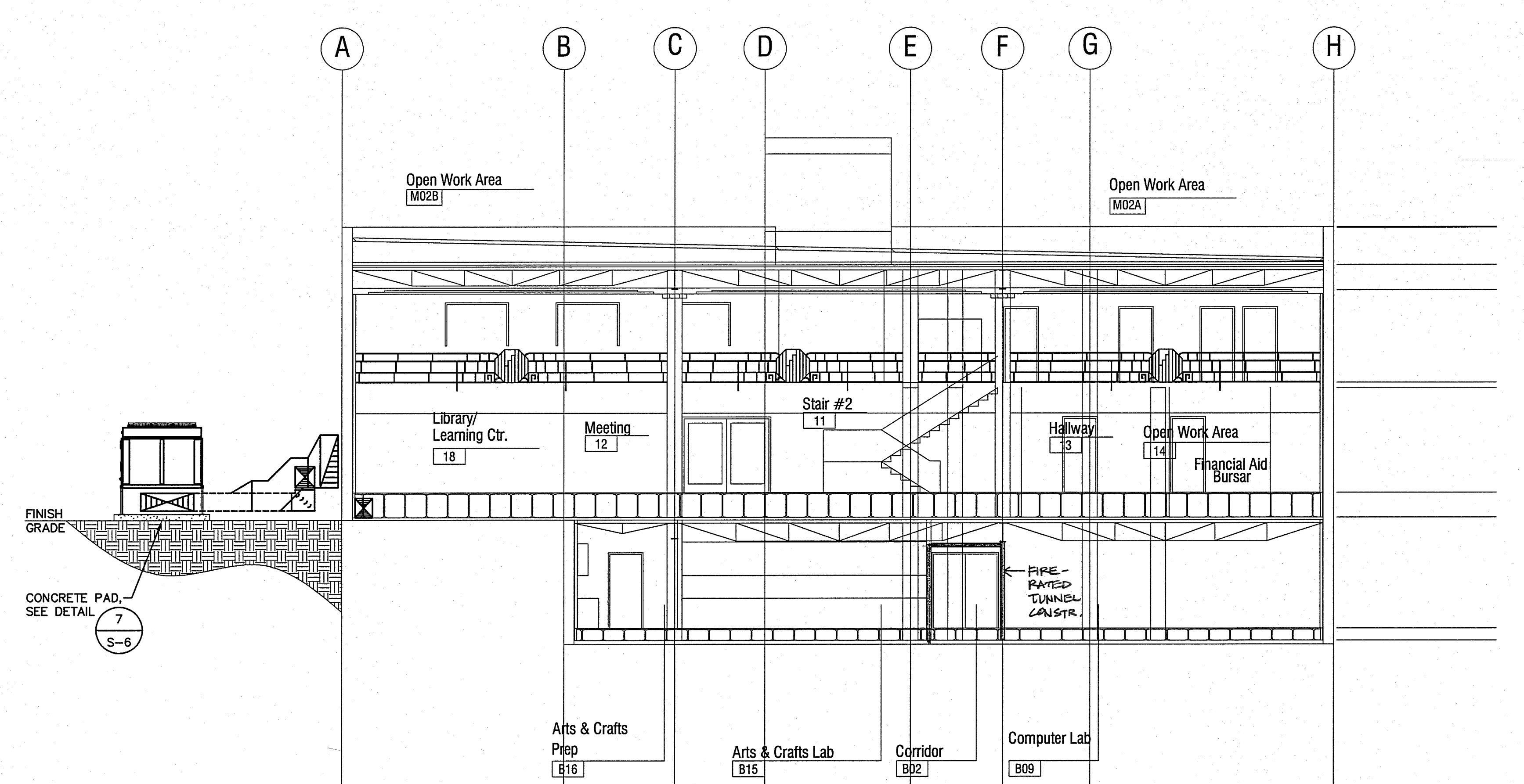
Additional refrigerant charge is needed depending on the size and length of extended piping. Please refer the amount of pre-charge and the formula of calculation which is mentioned on the data book.

DIAGRAM SYMBOL	LEGEND
---	PIPE
---	WIRE
---	CONTROL WIRE
---	REF. PIPE

SYMBOL	BRANCH	TYPE	MODEL	WAVE
---	---	---	---	---
---	---	---	---	---
---	---	---	---	---
---	---	---	---	---
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SCALE: NONE 2

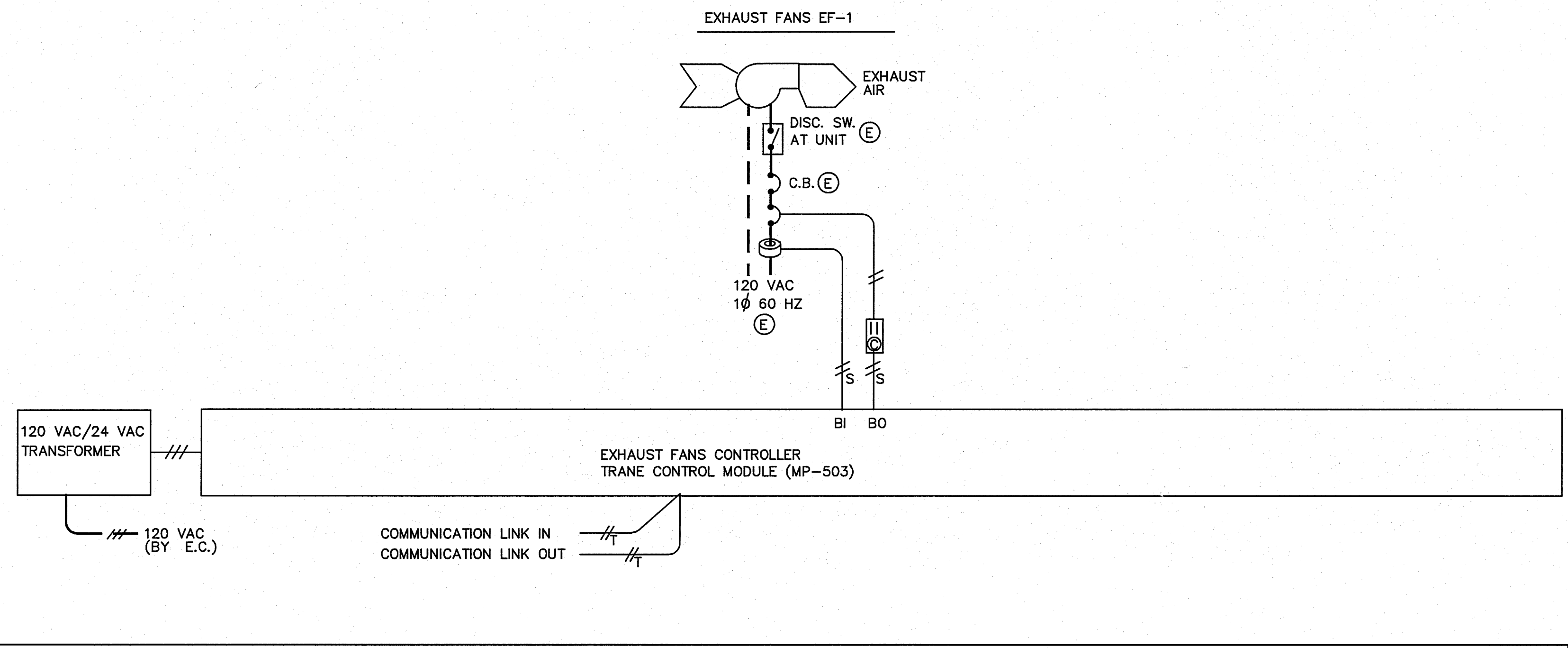
VRV SYSTEM SCHEMATIC DIAGRAM



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

110562  
DATE 07-20-07

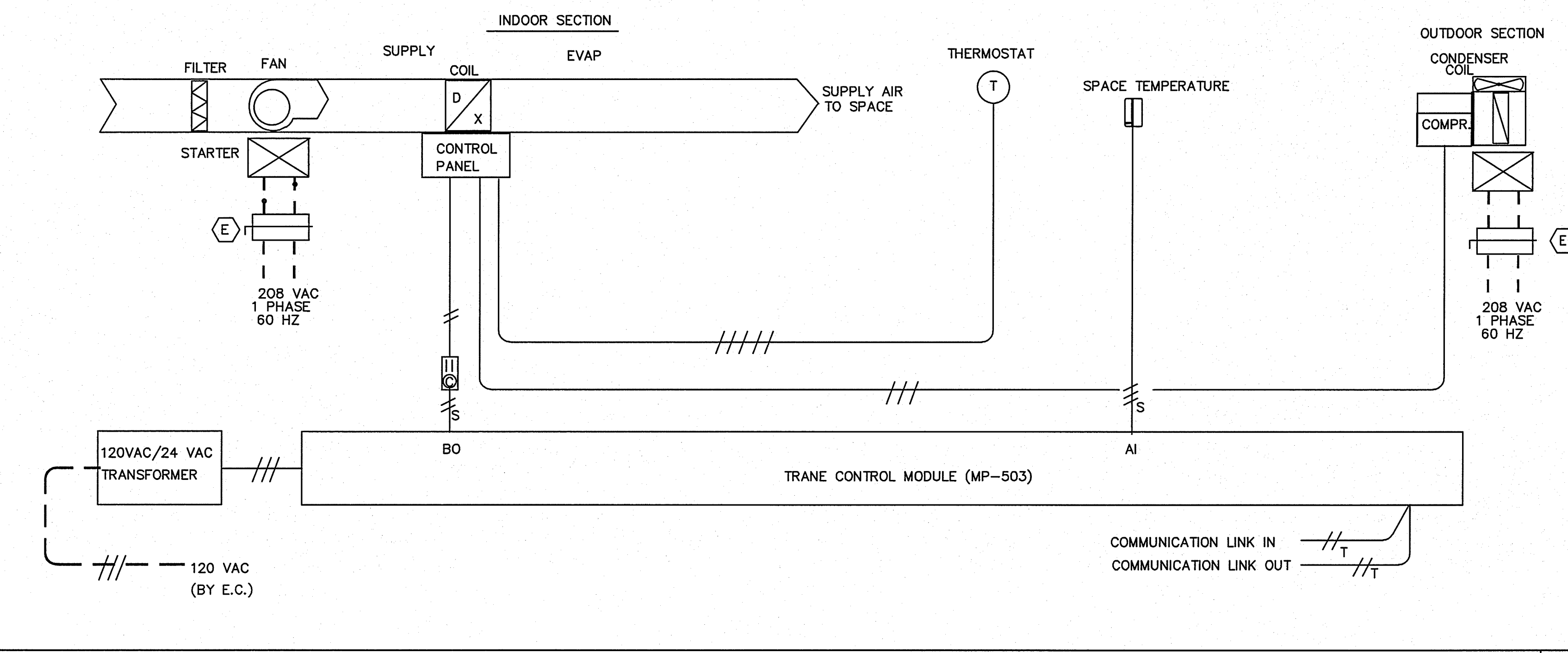
//T #22 AWG TWISTED NON-SHIELDED 2-CONDUCTOR CABLE  
 //S #18 AWG TWISTED SHIELDED 2-CONDUCTOR CABLE  
 (P) PNEUMATIC TUBING  
 (E) = E.C. = DIVISION 16000 ELECTRICAL CONTRACTOR



EXHAUST FANS CONTROL DIAGRAM

SCALE: NONE 1

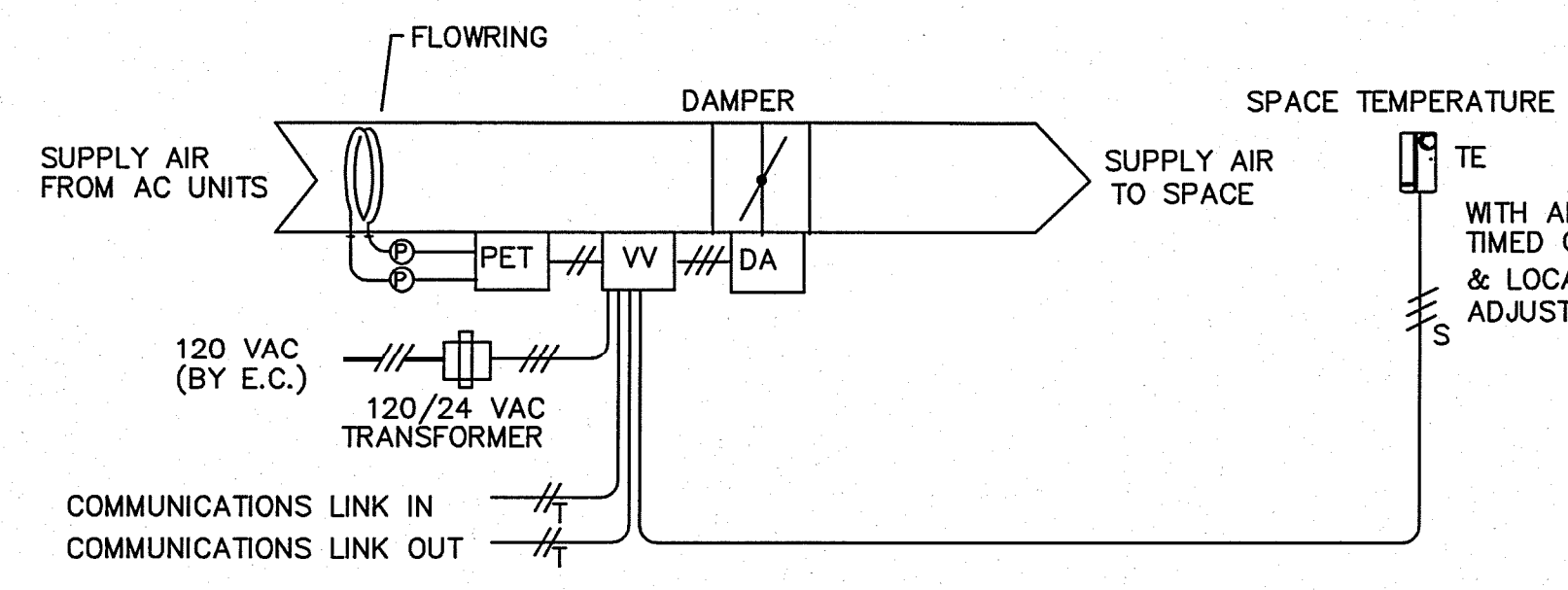
//T #22 AWG TWISTED NON-SHIELDED 2-CONDUCTOR CABLE  
 //S #18 AWG TWISTED SHIELDED 2-CONDUCTOR CABLE  
 (P) PNEUMATIC TUBING  
 (E) = E.C. = DIVISION 16000 ELECTRICAL CONTRACTOR



SPLIT SYSTEM HEAT PUMP UNIT CONTROL DIAGRAM

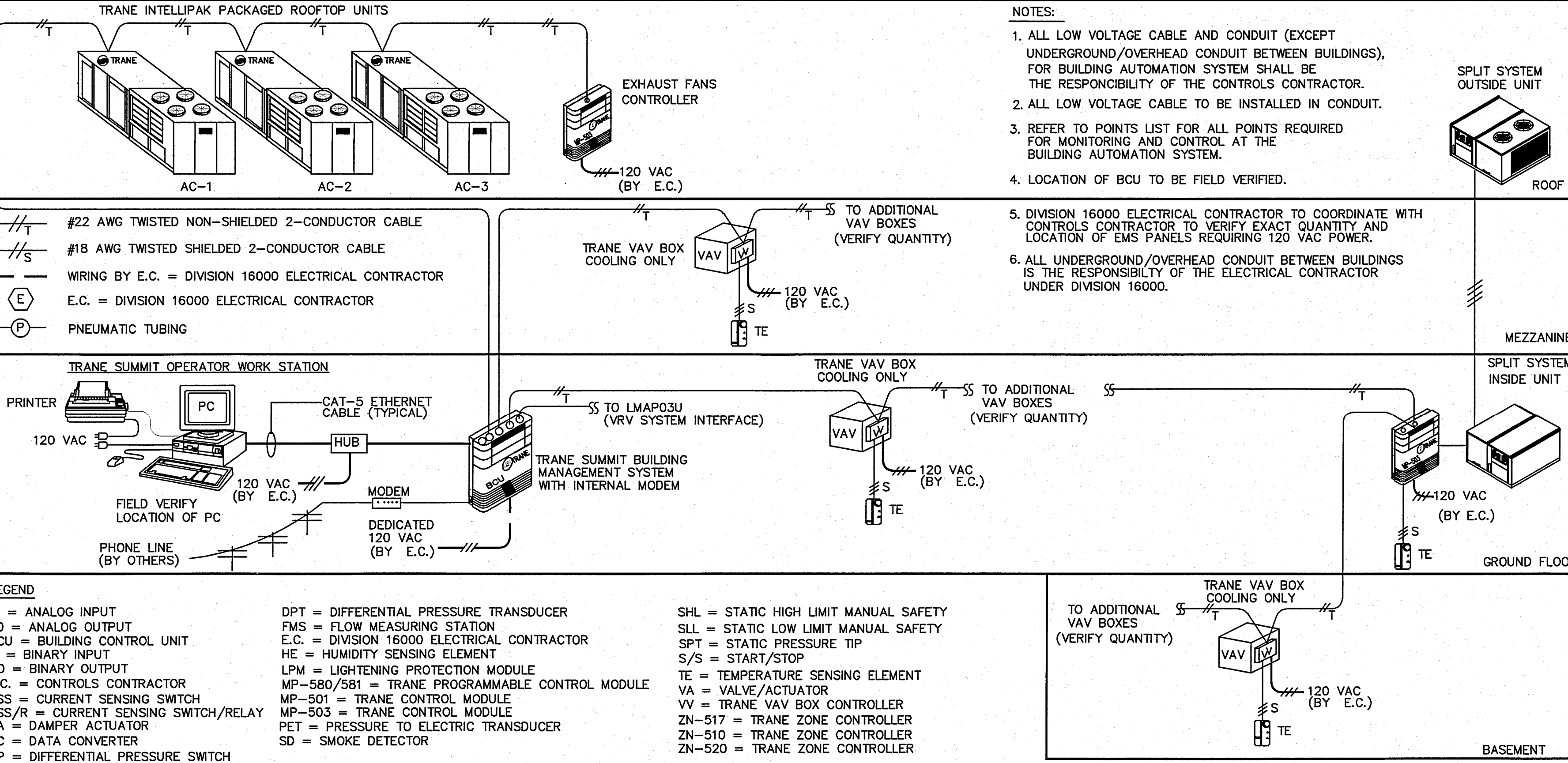
SCALE: NONE 2

//T #22 AWG TWISTED NON-SHIELDED 2-CONDUCTOR CABLE  
 //S #18 AWG TWISTED SHIELDED 2-CONDUCTOR CABLE  
 (P) PNEUMATIC TUBING  
 (E) = E.C. = DIVISION 16000 ELECTRICAL CONTRACTOR



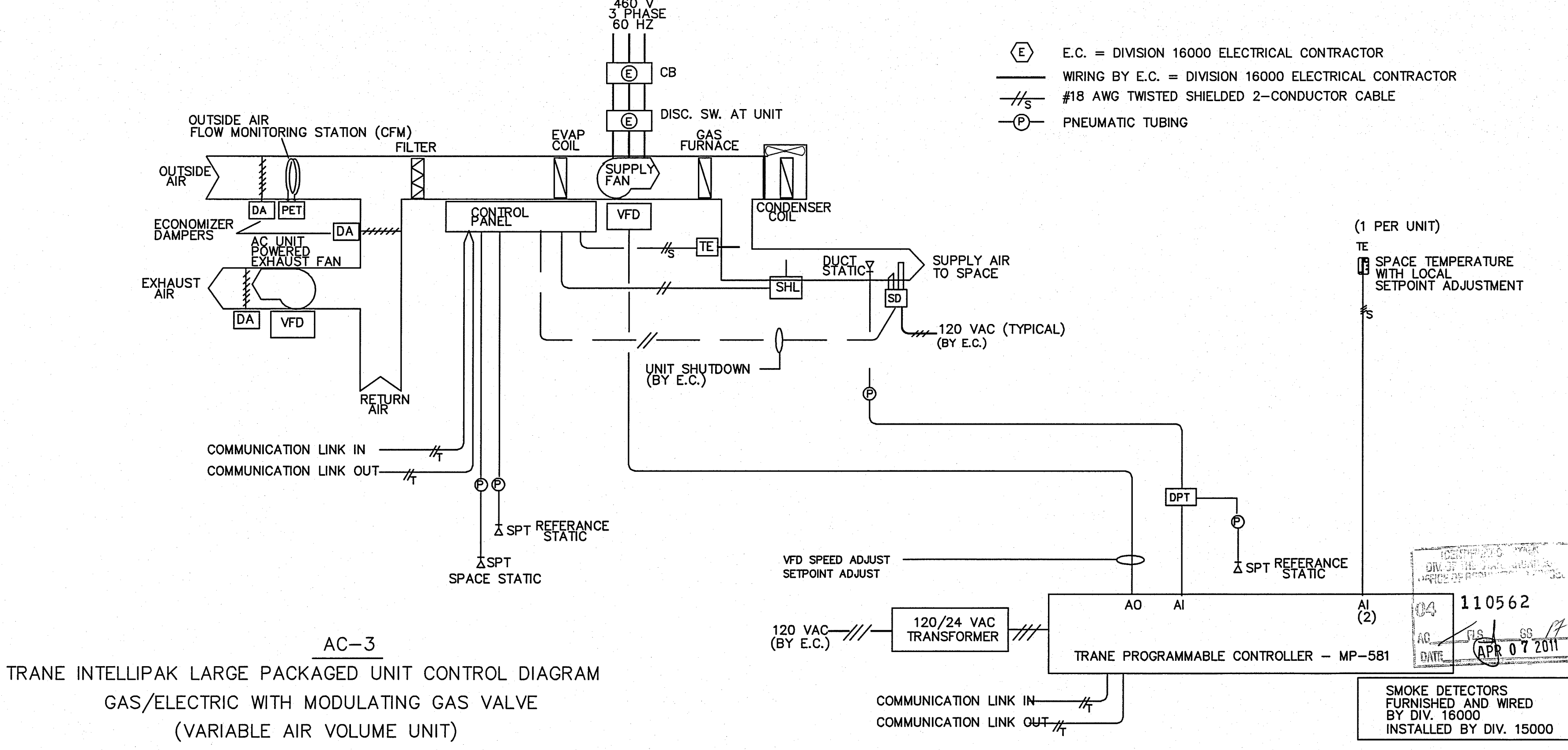
VAV BOX FLOW DIAGRAM - COOLING ONLY

SCALE: NONE 1



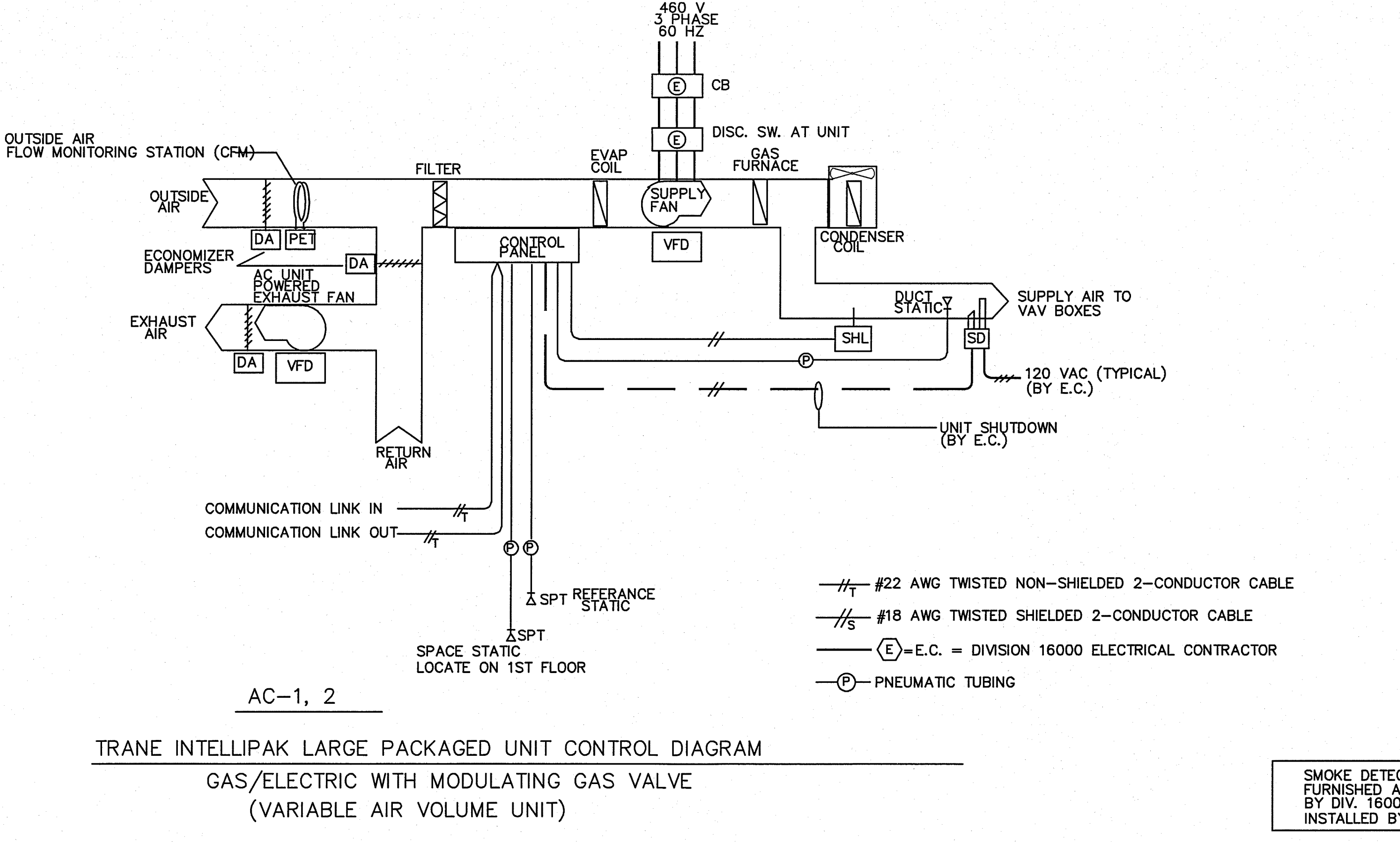
TRANE SUMMIT CONTROL SYSTEM RISER DIAGRAM

SCALE: NONE 2



TRANE INTELLIPAK LARGE PACKAGED UNIT CONTROL DIAGRAM

SCALE: NONE 4



TRANE INTELLIPAK LARGE PACKAGED UNIT CONTROL DIAGRAM

SCALE: NONE 3



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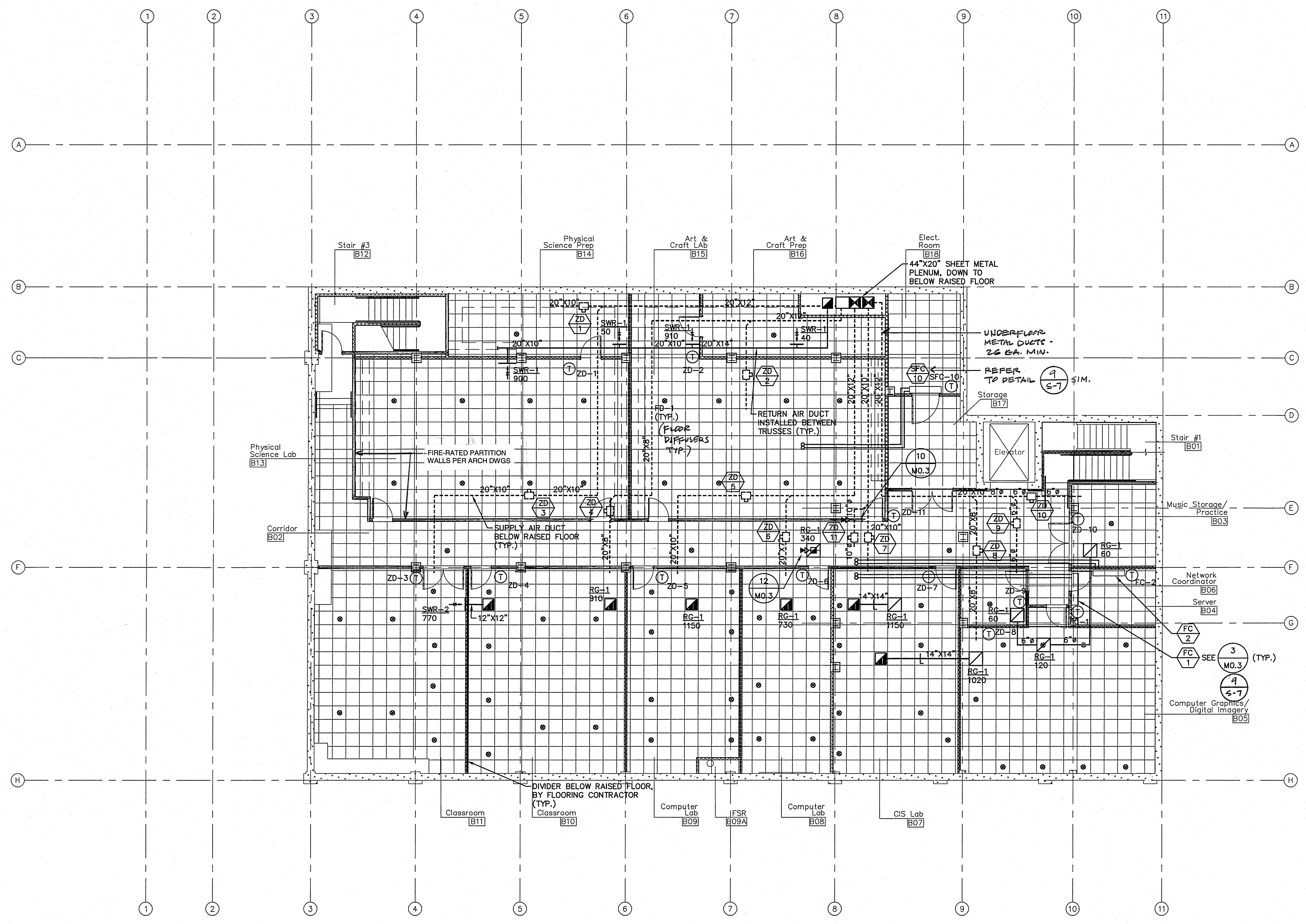
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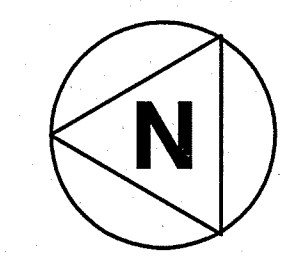
**CLAYPOOL BUILDING RECONSTRUCTION**  
**PALO VERDE COLLEGE, NEEDLES CENTER**  
 PALO VERDE COMMUNITY COLLEGE DISTRICT  
 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363  
**MECHANICAL CONTROL DIAGRAMS**

DATE 07-08-07  
 JOB NO. 2007-SH05-00  
 DRAWN BT  
 CHECKED MNA  
 SHEET NO. 110562  
 DATE 07 2011

**M0.5**

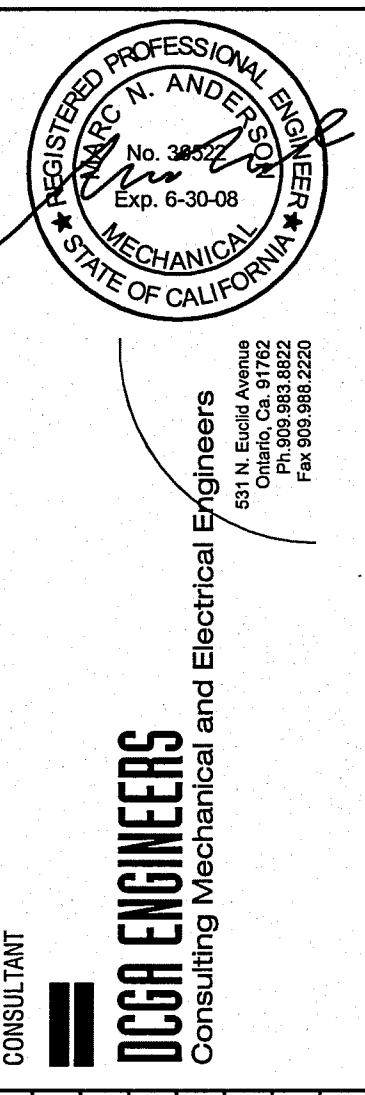


GENERAL NOTE:  
 1 FOR DUCT PENETRATIONS THROUGH FIRE-RATED WALLS, COMPLY WITH CBC SECT 709.6 AND U.L. DESIGN #WL1001. METAL DUCTS SHALL BE MINIMUM 26 GAGE. (COMPLY WITH CBC SECT 716)



SCALE  
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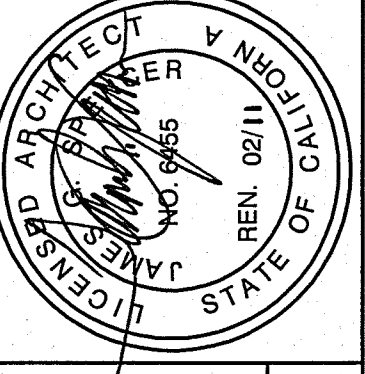
MECHANICAL BASEMENT PLAN



NO.	DATE	REVISIONS

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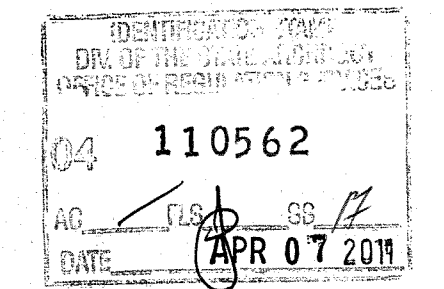
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CLAYPOOL BUILDING RECONSTRUCTION  
 PALO VERDE COLLEGE, NEEDLES CENTER  
 PALO VERDE COMMUNITY COLLEGE DISTRICT  
 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363  
 MECHANICAL BASEMENT PLAN

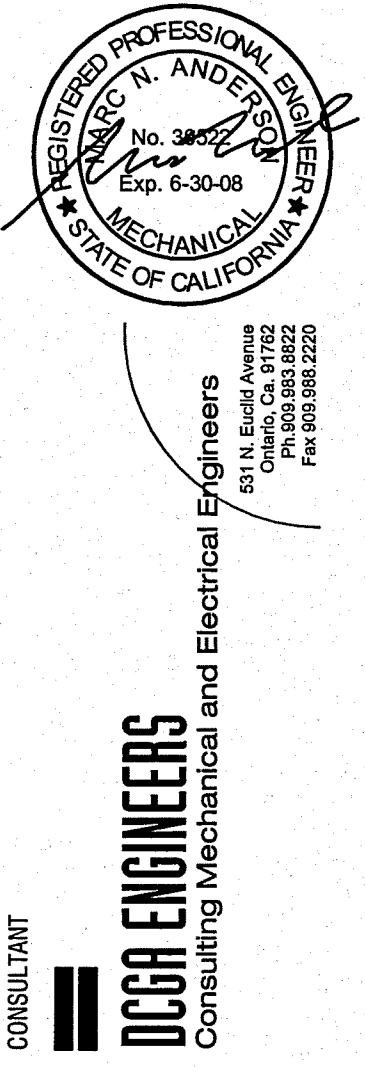
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CHECKED BY	MANA
DATE	2007-08-20

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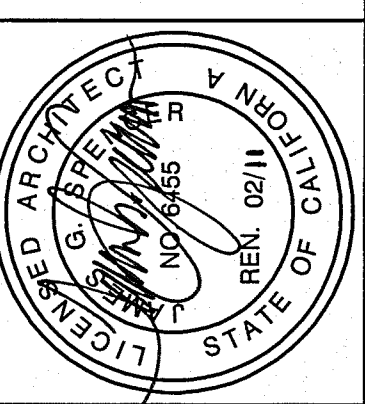
**SHEET NOTES**

- 20"x20" DOWN TO 20"x20" RETURN AIR GRILLE, RG-1, WITH OPPOSED BLADE DAMPER, IN BASEMENT LEVEL BELOW.
- MECHANICAL CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR TO MIRROR BRACE FRAME OF UNIT SUPPORT TO ACCOMMODATE DUCT RUN BELOW.
- OUTSIDE AIR DUCT TO FAN COIL SEE EQUIPMENT SCHEDULE FOR CFM REQUIREMENTS.



NO.	DATE	REVISIONS

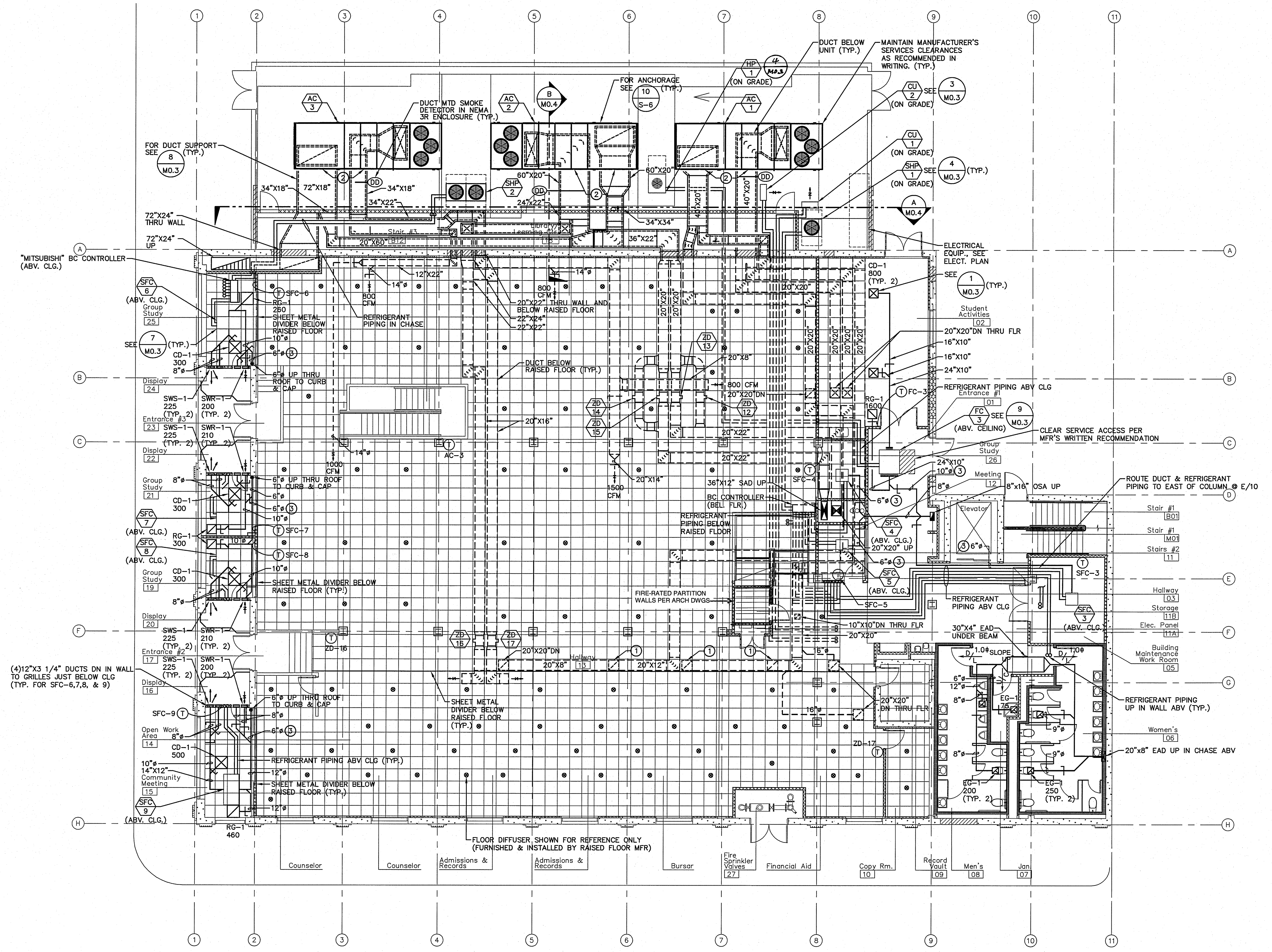
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**CLAYPOOL BUILDING RECONSTRUCTION**  
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 PALO VERDE COMMUNITY COLLEGE DISTRICT  
 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363  
**MECHANICAL FIRST FLOOR PLAN**

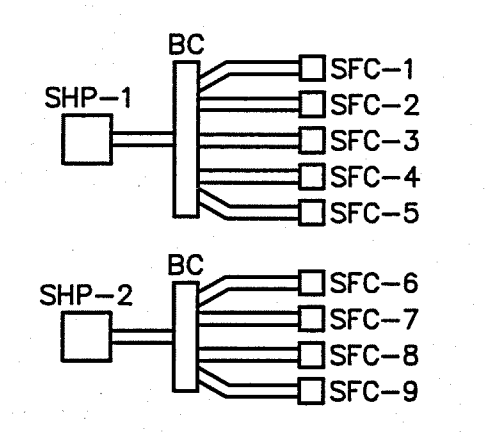
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07-06-07	2007-SH85-00			

SHEET NO. **M2.2**  
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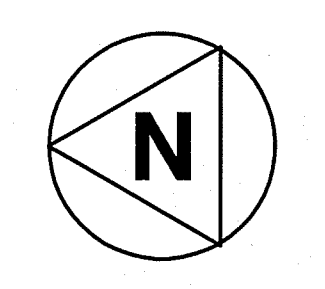
**SUGGESTED RAISED FLOOR WORK PHASING:**

- INSTALL RAISED FLOOR. (BY RAISED FLOOR CONTRACTOR)
- REMOVE PANELS & STRINGERS WHERE NEEDED FOR UNDER FLOOR WORK (COORDINATE WITH RAISED FLOOR MFR.)
- INSTALL HVAC DUCTS.
- REINSTALL RAISED FLOOR (COORDINATE WITH RAISED FLOOR MFR.)
- AIR BALANCE ALL FLOOR DIFFUSERS (REMOVE/REPLACE TILES, COORDINATE WITH RAISED FLOOR MFR.)

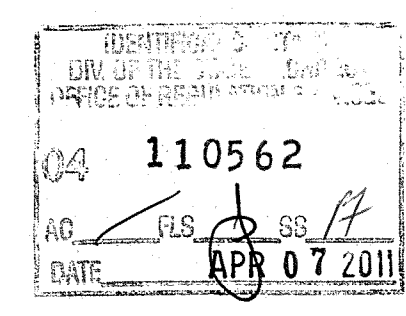


**VARIABLE REFRIGERANT FLOW PIPING DIAGRAMS**  
 N.T.S.

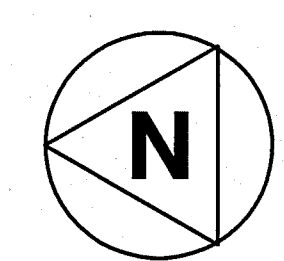
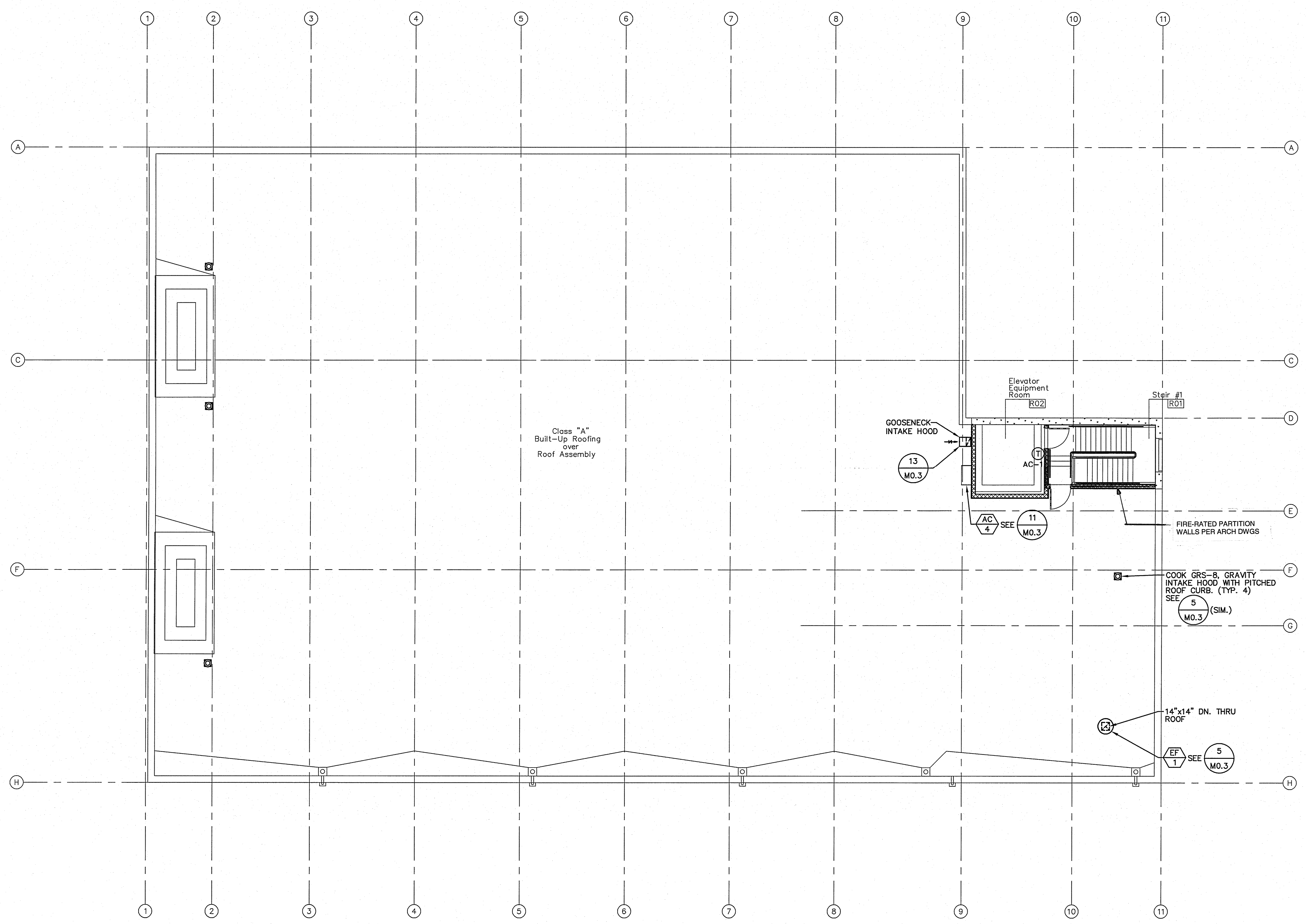
**MECHANICAL FIRST FLOOR PLAN**



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





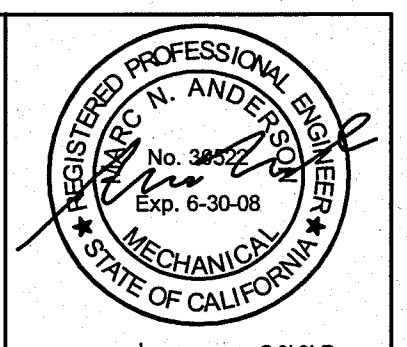


MECHANICAL ROOF PLAN

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

110562  
DATE: APR 07 2011

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<b>CLAYPOOL BUILDING RECONSTRUCTION</b> <b>PALO VERDE COLLEGE, NEEDLES CENTER</b> PALO VERDE COMMUNITY COLLEGE DISTRICT 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363 <b>MECHANICAL ROOF PLAN</b>	
DATE	07-08-07
JOB NO.	2007-SH06-00
DRAWN BY	MNA
CHECKED BY	MNA
SHEET NO.	1
<b>M3.1</b>	
SHEET OF	
DCGA #20-05101	



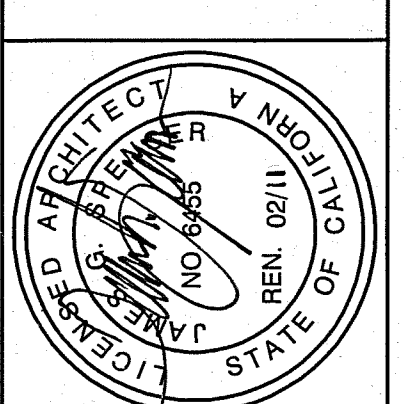
REGISTERED PROFESSIONAL ENGINEER  
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**CLAYPOOL BUILDING RECONSTRUCTION  
PALO VERDE COLLEGE, NEEDLES CENTER**  
PALO VERDE COMMUNITY COLLEGE DISTRICT  
725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363  
**PLUMBING NOTES, SYMBOLS & ABBREVIATIONS**

DATE	07-08-07
JOB NO.	2007-SH95-00
DRAWN	AC
CHECKED	JBANNA

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P0.1

### GENERAL NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2001 CALIFORNIA PLUMBING CODES, CALIFORNIA STATE FIRE MARSHAL CALIFORNIA OFFICE OF THE STATE ARCHITECT, AND CALIFORNIA ADMINISTRATIVE CODES, TITLES 17, 24 AND AUTHORITIES HAVING JURISDICTIONS.
- CONTRACTOR SHALL VERIFY ALL UTILITIES LOCATION, SIZE AND ELEVATIONS WITH CIVIL ENGINEER'S DRAWINGS PRIOR TO START OF WORK.
- CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES FOR CLEARANCES AND WORK INCLUDED PRIOR TO START OF WORK.
- KEEP ALL PIPING CLEAR FROM LOAD BEARING FOOTINGS.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS, MOUNTING HEIGHTS AND COLORS OF ALL PLUMBING FIXTURES.
- ALL VENTS THRU ROOF SHALL BE PLACED AT A MINIMUM OF THREE FEET VERTICALLY AND TEN FEET HORIZONTALLY FROM FRESH AIR INTAKES, WINDOWS, DOORS OR OTHER OPENINGS.
- PROVIDE AND INSTALL ACCESS PANELS AT ALL LOCATION OF WATER HAMMER ARRESTORS.
- CLEANOUTS SHALL BE INSTALLED PER CALIFORNIA PLUMBING CODE SECTION 707 AND 719.
- SLOPE OF BUILDING SEWERS SHALL NOT BE LESS THAN 2% UNLESS NOTED OTHERWISE.
- ALL DOMESTIC HOT WATER PIPING SHALL BE INSULATED AS REQUIRED BY AMERICAN ENERGY COMMISSION TABLE 123 OF THE BUILDING ENERGY EFFICIENCY STANDARDS. INSULATION SHALL HAVE A FIRE HAZARD CLASSIFICATION 25/50 COMPOSITE RATING.  

PIPE SIZE	INSULATION THICKNESS	INSULATION VALUE
1/2" - 1"	1"	K FACTOR PER T-24
1-1/4" - 4"	1-1/2"	K FACTOR PER T-24
- CIRCULATING HOT WATER SYSTEMS SHALL BE EQUIPPED WITH A CONTROL CAPABLE OF AUTOMATICALLY TURNING OFF THE CIRCULATING PUMPS WHEN HOT WATER IS NOT REQUIRED (TIME CLOCK).
- ALL SERVICE WATER HEATING EQUIPMENT TO BE IN COMPLIANCE WITH THE CALIFORNIA ENERGY COMMISSION (CEC) REQUIREMENTS AND BE SO LABELED.
- COORDINATE WITH ELECTRICAL TRADE PRIOR TO ORDERING EQUIPMENT FOR AVAILABLE VOLTAGES AT EQUIPMENT LOCATIONS.
- ALL HOSE BIBBS, WALL HYDRANTS AND JANITORIAL SERVICE SINKS SHALL BE EQUIPPED WITH APPROVED, PROPERLY INSTALLED ATMOSPHERIC TYPE VACUUM BREAKER.
- ALL WATER CONNECTIONS TO HVAC EQUIPMENT SHALL BE PROTECTED BY APPROVED, REDUCED PRESSURE BACKFLOW PREVENTION DEVICES. DEVICES SHALL BE ACCESSIBLE FOR TEST AND MAINTENANCE. PROVIDE FUNNEL DRAIN AND INDIRECT WASTE PIPING FOR BACKFLOW DEVICES DISTANT FROM FLOOR SINKS.
- NATURAL GAS LINES SHALL NOT BE LOCATED UNDER ANY STRUCTURE. 2001 CPC SECTION 1211.4.
- DO NOT USE METALLIC GAS LINES TO GROUND ELECTRICAL SYSTEM.
- PROVIDE COATED 12 GAUGE COPPER WIRE ATTACHED TO POLYETHYLENE GAS YARD PIPING FOR TRACING PURPOSE. TERMINAL WIRES SHALL BE IDENTIFIED IN LABELED ACCESS BOXES.
- FOR LOCATION OF PIPING SLEEVES AND FLOOR OPENINGS THROUGH STRUCTURAL FLOOR SLABS, REFER TO DETAILS INDICATED IN STRUCTURAL DRAWINGS.
- CONTRACTOR SHALL PATCH AND REPAIR ALL SURFACE AREAS DAMAGED BY HIS OPERATION.
- ALL VALVES, UNIONS, ETC. TO BE LINE SIZE UNLESS OTHERWISE INDICATED ON DRAWINGS.
- UNIONS SHALL BE PROVIDED AND INSTALLED AFTER EACH THREADED TYPE VALVE AND PRIOR TO EQUIPMENT CONNECTIONS.
- ANY DEVIATION FROM THE DRAWINGS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.
- UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL PLANS NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.
- ALL INTERIOR CONDENSATE PIPING SHALL BE INSULATED WITH CLOSED CELL FOAM INSULATION; WITH FIRE HAZARD CLASSIFICATION 25/50 COMPOSITE RATING.
- CONTRACTOR SHALL PROVIDE AS-BUILTS, CAD GENERATED AND DRAWN TO THE SAME SCALE THAT CONSTRUCTION DRAWINGS INDICATE (I.E. ENLARGED PLANS @ 1/4"=1'-0") SUBMIT 6 SETS OF HARD COPIES AND 1 ELECTRONIC COPY ON CD-ROM. CAD DRAWINGS SHALL BE AUTOCAD VERSION 2000 OR LATER.

### SEISMIC NOTES

- THE SEISMIC ANCHORAGE FOR ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE DESIGNED TO WITHSTAND A LATERAL FORCE.
  - CALCULATED AS SPECIFIED IN SECTION 1632A AND TABLE 16A-0 OF THE VOL. 2, TITLE 24, 2001 CBC.
  - IN LIEU OF CALCULATIONS PER 1-THE ANCHORAGE SHALL BE CAPABLE OF WITHSTANDING A LATERAL FORCE EQUAL TO 2.2 Wp (BOTH FORCES AT SERVICE LEVEL. THESE VALUES CORRESPOND TO AN I=1.15 AND C=0.66. FOR OTHER VALUES OF I= AND C=, THE LATERAL AND VERTICAL FORCE CAN BE ADJUSTED ACCORDINGLY)
- SECTION 1632A.2 OF 2015 W.P.  
\*INCLUSION OF VERTICAL FORCE PER TABLE 16-0-1 (FOR EMERGENCY POWER SUPPLIES & COMMUNICATIONS) - (FOR EMERGENCY POWER SUPPLIES & COMMUNICATIONS EQUIPMENT ONLY)
- THE CAPACITY OF THE ANCHORAGE CONNECTORS IN SHEAR AND/OR TENSION SHALL BE CLEARLY INDICATED IN THE CALCULATIONS, WHICH INDICATE, ICB0 REPORT NO. (IF APPLICABLE) THEIR TOTAL NUMBER, SIZE, GRADE, EMBEDMENT, EDGE DISTANCES, AND OTHER FACTORS WHICH AFFECT THE CAPACITY IN SHEAR AND TENSION.
- ANCHORAGE DETAILS FOR EQUIPMENT WHICH ARE NOT APPROVED DURING PLAN REVIEW ARE SUBJECT TO APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD PRIOR TO INSTALLATION AND INSPECTION BY THE PROJECT INSPECTOR, IN COMPLIANCE WITH SECTION 4.317

### PIPE SUPPORT NOTES

ALL BRACING OF PIPING SHALL BE INSTALLED IN ACCORDANCE WITH "MASON INDUSTRIES" SEISMIC RESTRAINT GUIDELINES FOR SEISMIC RESTRAINT OF MECHANICAL SYSTEMS. OSHPD PRE-APPROVAL # OPA-0349, 2005 EDITION.  
WHERE ANCHORAGE & BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, MECHANICAL ENGINEER AND THE INSPECTOR.  
A COPY OF THE GUIDELINES PUBLISHED BY "MASON INDUSTRIES" SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB SITE AT ALL TIMES.

### PLUMBING SHEET INDEX

SHEET NO.	DESCRIPTION	SCALE
P0.1	PLUMBING GENERAL NOTES, ABBREVIATIONS & SYMBOLS	NONE
P0.2	PLUMBING SCHEDULES	NONE
P0.3	PLUMBING DETAILS	NONE
P1.1	PLUMBING SITE PLAN	1"=20'-0"
P2.0	BASEMENT PLUMBING PLAN	1/8"=1'-0"
P2.1	FIRST FLOOR PLUMBING PLAN	1/8"=1'-0"
P2.2	MEEZANINE PLUMBING PLAN	1/8"=1'-0"
P3.1	PLUMBING ROOF PLAN	1/8"=1'-0"
P4.1	ENLARGED PLUMBING PLAN	1/4"=1'-0"

### PLUMBING SYMBOLS

	REDUCED PRESSURE BACKFLOW PREVENTER (RPBFP)		SQUARE FEET (SQ FT)
	FLOOR DRAIN, PLANTER DRAIN,		FLOOR CLEANOUT
	ROOF DRAIN, OVERFLOW DRAIN		FLOOR CLEANOUT IN YARDBOX
	FLOOR SINK, AREA DRAIN (FS,AD)		FIRE SPRINKLER RISER
	REDUCER		EXISTING FIXTURE TO BE REMOVED
	UNION		EXISTING TO BE REMOVED
	PIPE ANCHOR		EXISTING DOMESTIC COLD WATER
	FLEXIBLE CONNECTOR		EXISTING DOMESTIC HOT WATER
	STRAINER		EXISTING DOMESTIC HOT WATER RETURN
	WATER HAMMER ARRESTOR		EXISTING GAS (LOW PRESSURE)
	TRAP PRIMER BEHIND ACCESS PANEL		EXISTING GAS (MEDIUM PRESSURE)
	PRESSURE GAUGE WITH PET COCK		EXISTING PIPING
	THERMOMETER		EXISTING DRAINAGE ABOVE GROUND
	AQUASTAT		EXISTING DRAINAGE BELOW GROUND
	DRIP PAN		EXISTING VENT
	AUTOMATIC AIR VENT		FIRE SPRINKLER
	TEMPERATURE/PRESSURE RELIEF VALVE & PRESSURE RELIEF VALVE		DRAINAGE ABOVE GROUND
	AIR RELIEF VALVE		DRAINAGE BELOW GROUND
	CHECK VALVE		VENT
	GATE VALVE		GREASE WASTE
	BALL VALVE		DOMESTIC COLD WATER
	PRESSURE REGULATING VALVE		DOMESTIC HOT WATER
	GAS PRESSURE REGULATOR		DOMESTIC HOT WATER RETURN
	BALANCING VALVE		NATURAL GAS (LOW PRESSURE)
	VALVE IN YARD BOX		NATURAL GAS (MEDIUM PRESSURE)
	SOLENOID VALVE (ELECTRIC)		STORM DRAINAGE ABOVE GROUND
	GAS COCK		STORM DRAINAGE BELOW GROUND
	HOSE BIBB		OVERFLOW DRAIN
	DIRECTION OF FLOW		CONDENSATE DRAIN
	WASTE PLUGGED OUTLET		NON-POTABLE COLD WATER
	CLEANOUT (CO)		POINT OF DISCONNECT
	PIPING BREAK		POINT OF CONNECTION
	PIPING RISE OR DROP		SHEET NOTES
	PIPING DOWN		EQUIPMENT DESCRIPTION
	PIPING UP		EQUIPMENT NUMBER
	BRANCH CONNECTION		DETAIL NUMBER
	BRANCH-BOTTOM CONNECTION		DETAIL DESIGNATION.

### ACCESSIBILITY COMPLIANCE NOTES

- COVER EXPOSED HOT & COLD WATER PIPING AND WASTE PIPING AT DESIGNATED LAVATORIES WITH NEATLY PRE-FORMED PIPE INSULATION, PLUMBEREX "PRO 2000" OR APPROVED EQUAL.
- ALL PIPING UNDER ACCESSIBLE LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES. (NOTE: INSULATION TO COMPLY WITH CBC 418)
- FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST.
- THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THE 5 lbf. LEVER-OPERATED, PUSH TYPE AND ELECTRONICALLY ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF-CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST TO SECONDS.
- ACCESSIBLE PLUMBING FIXTURES SHALL COMPLY WITH ALL OF THE REQUIREMENTS OF CBC SECTION 1115B. HEIGHTS AND LOCATION OF ALL FIXTURES SHALL BE ACCORDING TO CBC TABLE 1115B-1. FIXTURE CONTROLS SHALL COMPLY WITH CBC SECTION 1118B.

### FIRE PROTECTION GENERAL NOTES

- ALL SPRINKLER WORK SHALL BE IN ACCORDANCE WITH NFPA #13 1999 EDITION. NOTE: THE LOCAL FIRE MARSHAL SHALL HAVE AUTHORITY FOR ENFORCEMENT (INCLUDING INSPECTIONS) OF FIRE AND LIFE SAFETY STANDARDS.
- CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES. COORDINATE SPRINKLER HEAD LOCATIONS AND PIPING WITH LIGHT FIXTURES, SPEAKERS AND DIFFUSERS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND DETAIL OF PARTITIONS, CEILINGS, AND SOFFITS.
- THE FIRE SPRINKLER SYSTEM WILL BE LIMITED TO THE FIRE SPRINKLER RISER ROOM AND THE BASEMENT AREA.
- THE FIRE SPRINKLER SYSTEM IS A DEFERRED-APPROVAL ITEM. INSTALLATION OF THE FIRE SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLANS & SPECIFICATIONS (INCLUDING WATER SUPPLY INFORMATION) HAVE BEEN APPROVED BY THE LOCAL FIRE MARSHAL.
- AT VARIOUS STAGES AND UPON COMPLETION, SYSTEM SHALL BE TESTED IN THE PRESENCE OF THE ENFORCING AGENCY.
- THE FIRE MARSHAL SHALL BE NOTIFIED 48 HOURS PRIOR TO THE SCHEDULED TESTING.

### PLUMBING ABBREVIATIONS

- A -	ABV. ABOVE	- I -	ICW INDUSTRIAL COLD WATER
ACC	AIR CONDITIONING (HVAC)	IW	INDIRECT WASTE
A.D.A.	DISABLED ACCESSIBLE	I.E.	INVERT ELEVATION
A.F.F.	AMERICAN WITH DISABILITY ACT	IN.	INCH
A.F.S.R.	ABOVE FINISH FLOOR	INT	INTEGRAL
A.P.	AUTOMATIC FIRE SPRINKLER RISER	IRR	IRRIGATION WATER
AV	ACCESS PANEL	- K -	KITCHEN EQUIPMENT
AW	ACID VENT	K.E.	KILOWATT
- B -	ACID WASTE	- L -	LAVATORY
BEH.	BEHIND	L	LAVATORY
BEL.	BELOW	M	MOUNTED
BLDG.	BUILDING	M.P.G.	MEDIUM PRESSURE GAS
BTUH	BRITISH THERMAL UNITS PER HOUR	MTD	MOUNTED
- C -	CD CONDENSATE DRAIN	- N -	NOT TO SCALE
CFH	CUBIC FEET PER HOUR	NC	NORMALLY CLOSED
CU. FT.	CUBIC FEET PER MINUTE	NO	NORMALLY OPEN
CLG	CEILING	- O -	ON CENTER
CLO	CUBIC FEET	OD	OVERFLOW DRAIN
CO	CLEANOUT	OUS	UNDER OTHER SECTION
CONT.	CONTINUATION	- P -	PHASE
CONTR.	CONTRACTOR	PH	PLUMBING
COTG	CLEANOUT TO GRADE	PLUG	PLUGGED OUTLET
CW	COLD WATER (DOMESTIC)	PO	POINT OF CONNECTION
- D -	DET. DETAIL	P.O.C.	POINT OF CONNECTION
DFX	DUPLEX	PRESS.	PRESSURE
DN	DOWN	PSI	POUNDS PER SQUARE INCH
DR	DROP	PTRV	PRESSURE/TEMPERATURE-RELIEF VALVE
DS	DOWN SPOUT	- Q -	QUANTITY
DWG	DRAWING	QTY	QUANTITY
- E -	(E) EXISTING	- R -	RISER CONTROL VALVE
EA	EACH	RCV	RISER CONTROL VALVE
EL	ELEVATION	R.I.	ROUGH-IN
EQUIP	EQUIPMENT	RM	ROOM
ESEW	EMERGENCY SHOWER EYE WASH	RPM	REVOLUTIONS PER MINUTE
EWC	ELECTRIC WATER COOLER	- S -	SINK
- F -	FCD FLOOR CLEANOUT	S	SANITARY SEWER
FCE	FOOD SERVICE EQUIPMENT	SAN.	SANITARY SEWER
FD	FLOOR DRAIN	SB	SERVICE BASIN
F.F.E.	FINISHED FLOOR ELEVATION	SD	STORM DRAIN
FLR.	FLOOR	SOV	SHUT-OFF VALVE
FT	FOOT, FEET	- T -	THERMOSTATIC MIXING VALVE
FU	FIXTURE UNIT	TMV	THERMOSTATIC MIXING VALVE
FV	FLUSH VALVE	TP	TRAP PRIMER
- G -	G GAS (LOW PRESSURE)	TYP	TYPICAL
GAL	GALLON	TW	TEMPERED WATER
G.C.	GAS COCK	TWR	TEMPERED WATER RETURN
G.P.F.	GALLONS PER FLUSH	- U -	URINAL
GPH	GALLONS PER HOUR	UR	URINAL
GPM	GALLONS PER MINUTE	V	VENT
GPR	GAS PRESSURE REGULATOR	VERT	VERTICAL
GHW	GAS WATER HEATER	VO	VENT OFFSET
- H -	HB HOSE BIBB	VR	VENT RISE
HP	HORSEPOWER	VTR	VENT THROUGH ROOF
HVAC	HEATING VENTILATING AND AIR CONDITIONING	VAC.BKR.	VACUUM BREAKER
HW	HOT WATER (DOMESTIC)	- W -	WASTE
HWR	HOT WATER RETURN (DOMESTIC)	W	WITH
		WC	WATER CLOSET
		WCO	WALL CLEANOUT
		WH	WALL HYDRANT
		WHA	WATER HAMMER ARRESTOR
		- Y -	YARD BOX
		Y.B.	YARD BOX

### UTILITY SCHEDULE

UTILITY	FU	G.P.M.	C.F.H.
SEWER PROPOSED	76	N.A.	N.A.
WATER PROPOSED	98.3	68	N.A.
FUEL GAS: FUTURE			
EXISTING	N.A.	N.A.	820
PROPOSED			820
TOTAL			

N.A. DENOTES NOT APPLICABLE

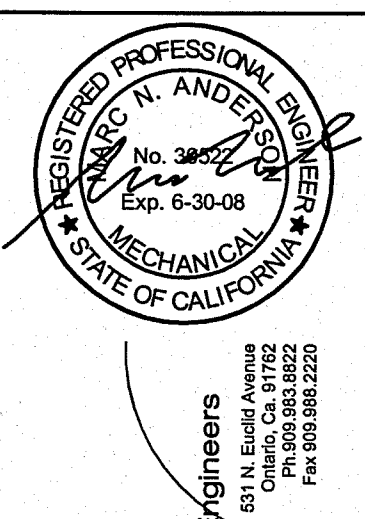
ELECTRIC WATER HEATER SCHEDULE													
SYMBOL	LOCATION	MFR./MODEL No.	STOR. (GAL.)	RECOV. RISE (GPH.)	TANK SIZE		TEMP		ELECTRICAL DATA			OPER. WEIGHT (LBS)	REMARKS
					DIA. (IN)	HGT. (IN)	IN (F)	OUT (F)	KW	VOLT	PH		
EW-1	WORKROOM 05	A.O. SMITH DSE-10	10	20	18 3/4"	26 1/8"	60	120	3	208	1	200	

EXPANSION TANK SCHEDULE								
SYM.	LOCATION	MFR./MODEL	TANK VOLUME (GALLONS)	ACCEPTANCE VOLUME GALLONS	CHARGING PRESSURE (PSIG)	OPER. WT. (LBS.)	SYSTEM CONNECTION SIZE (NPT)	REMARKS

CIRCULATING PUMP SCHEDULE												
SYMBOL	LOCATION	MFR./MODEL No.	TYPE	GPM	HEAD (FT.)	RPM	ELECTRICAL DATA			OPER. WEIGHT (LBS)	REMARKS	
							HP	VOLT	PHASE/HERTZ			
CP-1	WORKROOM 05	BELL & GOSSET HV SERIES	INLINE	3	10	-	1/12	120	1	60	30	

PLUMBING FIXTURE SCHEDULE												
MARK	FIXTURE	ROUGH-IN-SIZE					FIXTURE UNIT		DESCRIPTION/REMARKS			
		TRAP	S/W	V	CW	HW	WASTE	WATER				
WC-1	WATER CLOSET	INT.	4"	2"	1"	-	4	5	WALL MOUNTED, VITREOUS CHINA ELONGATED BOWL, 1.6 G.P.F. FLUSH VALVE WITH VACUUM BREAKER.			
WC-2	WATER CLOSET (ACC)	INT.	4"	2"	1"	-	4	5	WALL MOUNTED, VITREOUS CHINA ELONGATED BOWL, 1.6 G.P.F. FLUSH VALVE WITH VACUUM BREAKER. ACCESSIBLE. SEE 12/A4.1 FOR MOUNTING HEIGHT.			
UR-1	URNAL	INT.	2"	1 1/2"	3/4"	-	2	4	WALL MOUNTED, VITREOUS CHINA RECEPTOR, 1.0 G.P.F. FLUSH VALVE WITH VACUUM BREAKER.			
UR-2	URNAL (ACC)	INT.	2"	1 1/2"	3/4"	-	2	4	WALL MOUNTED, VITREOUS CHINA RECEPTOR, 1.0 G.P.F. FLUSH VALVE WITH VACUUM BREAKER. ACCESSIBLE. SEE 12/A4.1 FOR MOUNTING HEIGHT.			
LV-1	LAVATORY (ACC)	(b)	2"	1 1/2"	1/2"	-	1	1	WALL MOUNTED, VITREOUS CHINA BOWL SINGLE FAUCET WITH 0.5 GPM FLOW CONTROL. ACCESSIBLE. SEE 9/A4.1 FOR MOUNTING HEIGHT.			
LV-2	LAVATORY (ACC)	(b)	2"	1 1/2"	1/2"	-	1	1	WALL MOUNTED, VITREOUS CHINA BOWL SINGLE FAUCET WITH 0.5 GPM FLOW CONTROL. ACCESSIBLE. SEE 9/A4.1 FOR MOUNTING HEIGHT.			
SK-1	SINK (ACC)	1 1/2" (c)	2"	1 1/2"	1/2"	-	2	2	22" x 19" x 8" SINGLE COMPARTMENT, STAINLESS STEEL SINK WITH HOT & COLD DOUBLE FAUCET. ACCESSIBLE. SEE 4/A9.7 FOR MOUNTING HEIGHT.			
SB-1	SERVICE BASIN	2" (c)	2" (c)	2" (c)	1/2"	1/2"	3	3	CAST IRON RECEPTOR, LEVER HANDLE WALL DOUBLE FAUCET WITH INTEGRAL LOOSE KEY STOPS, VACUUM BREAKER AND HOSE END SPOUT.			
DF-1	DRINKING FOUNTAIN (ACC)	1 1/2"	2"	2"	1/2"	-	.5	.5	HI-LO, DRINKING FOUNTAIN, ACCESSIBLE. SEE 16/A9.7 FOR MOUNTING HEIGHT.			
FD-1	FLOOR DRAIN	2"	2"	1 1/2"	1/2"	-	-	-	5" ROUND FLOOR DRAIN, WITH TRAP PRIMER CONNECTION			
FS-1	FLOOR SINK	2"	2"	1 1/2"	1/2"	-	-	-	12" x 12" x 8" FLOOR SINK WITH TRAP PRIMER CONNECTION			
HB-1	HOSE BIBB	-	-	-	3/4"	-	-	2.5	WOODFORD NO. 130 FREEZE PROOF, POST HYDRANT LOOSE KEY HANDLE, NO. 34HF VACUUM BREAKER			
HB-2	HOSE BIBB	-	-	-	3/4"	-	-	2.5	SILL COCK TYPE, WALL FLANGE, VACUUM BREAKER, LOOSE KEY HANDLE			
WH-1	WALL HYDRANT	-	-	-	3/4"	-	-	2.5	WOODFORD NO. 855 FREEZE PROOF, FLUSH MOUNTED WALL BOX, VACUUM BREAKER, LOOSE KEY HANDLE			
RH-1	ROOF HYDRANT	-	-	-	3/4"	-	-	2.5	WOODFORD NO. RH72 FREEZE PROOF, ROOF HYDRANT NO. 37HF BACKFLOW PREVENTER, DRAIN LINE			

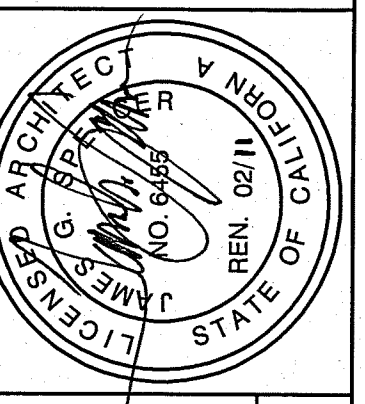
(a) UNLESS OTHERWISE INDICATED ON THE DRAWINGS  
(b) 1 1/4" x 1 1/2"  
INT. DENOTES INTEGRAL



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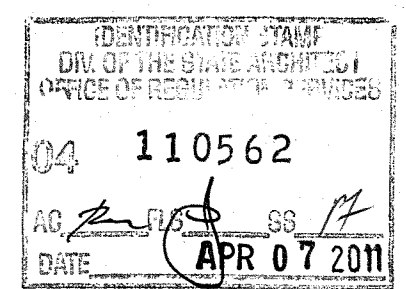
NO.	DATE	REVISIONS

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CLAYPOOL BUILDING RECONSTRUCTION  
PALO VERDE COLLEGE, NEEDLES CENTER  
PALO VERDE COMMUNITY COLLEGE DISTRICT  
725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363  
**PLUMBING SCHEDULES**

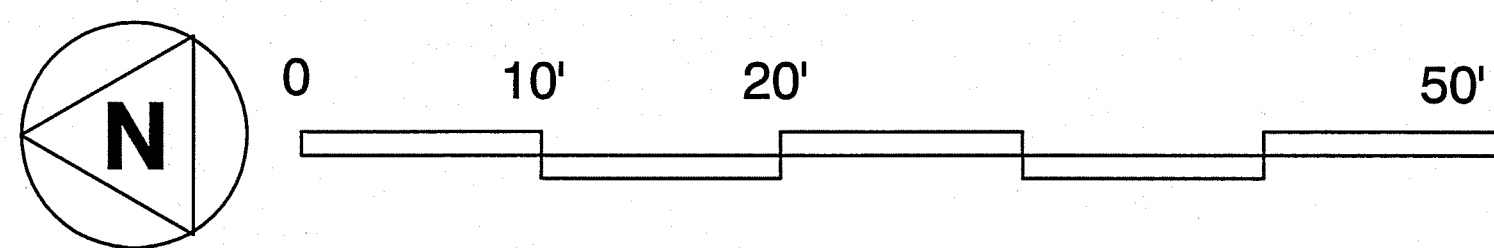
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JOB NO.	2007-SH95E-00
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SHEET NO.	



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APR 07 2011  
SHEET OF



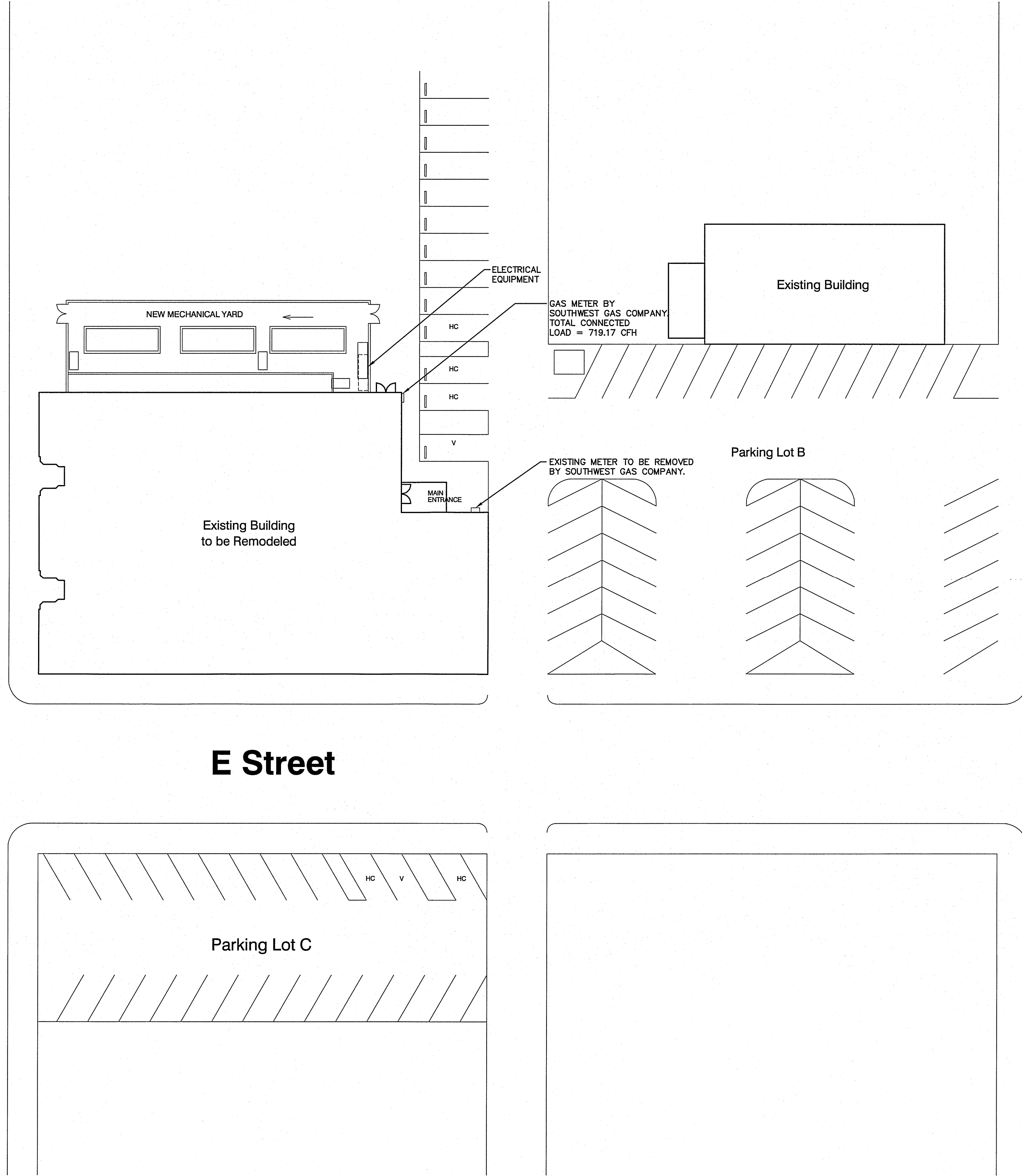
# PLUMBING SITE PLAN



Broadway

E Street

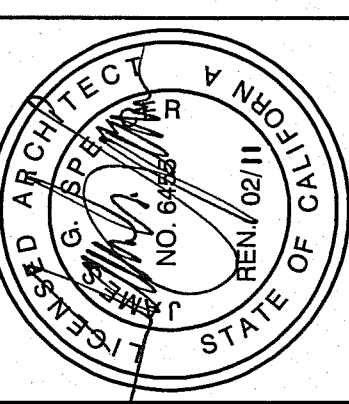
Third Street



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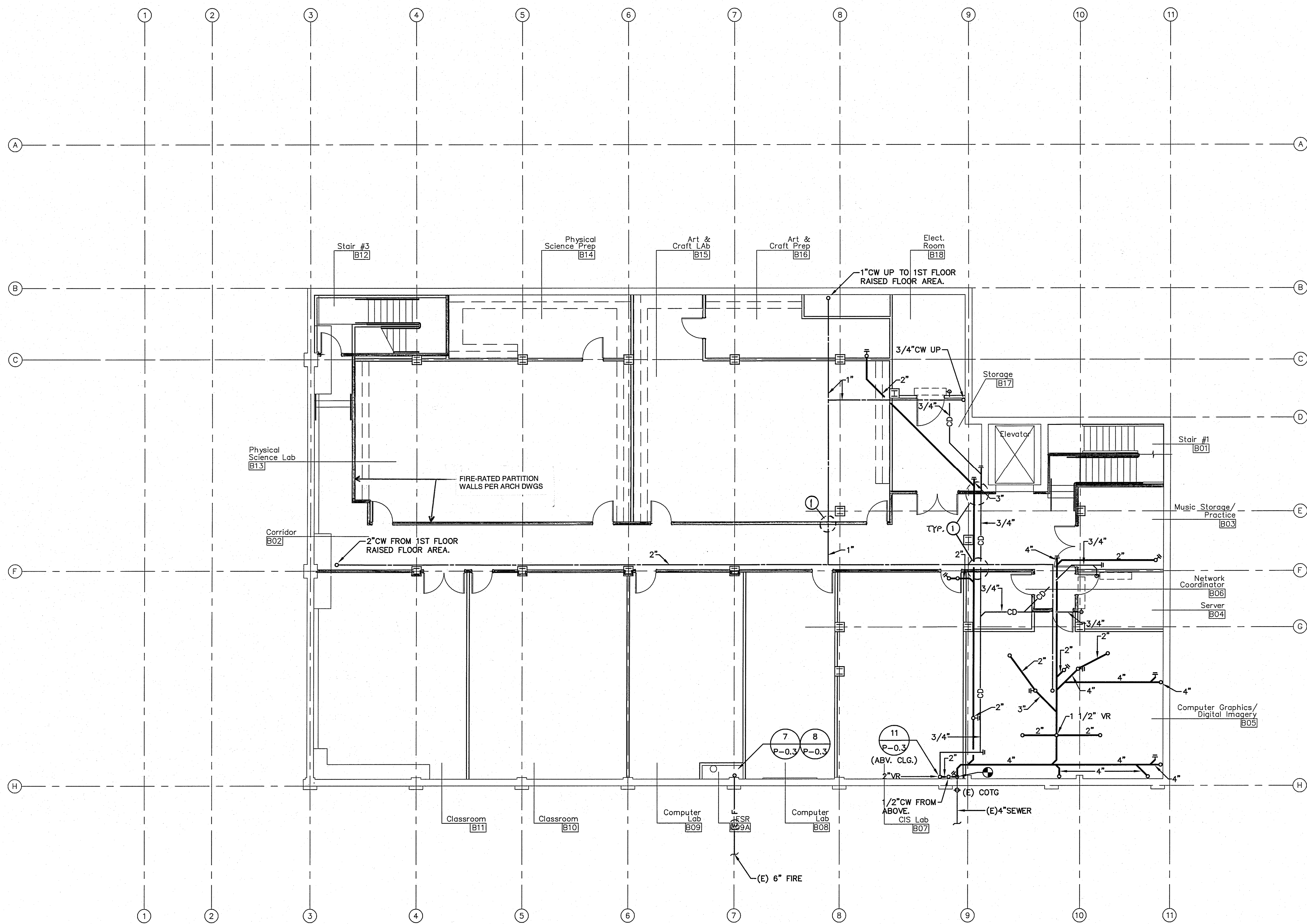


**CLAYPOOL BUILDING RECONSTRUCTION**  
**PALO VERDE COLLEGE, NEEDLES CENTER**  
 PALO VERDE COMMUNITY COLLEGE DISTRICT  
 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363  
**PLUMBING SITE PLAN**

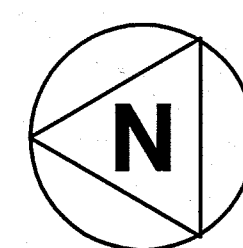
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JOB NO.	2007-SH95-03
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CHECKED	MNA
SHEET NO.	

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 DATE AUG 07 2011

**P1.1**



GENERAL NOTE:  
 ① FOR PIPE PENETRATIONS THROUGH FIRE-RATED WALLS, COMPLY WITH CBC SECT 709.8 AND ILL. DESIGN #WL1001.



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

IDENTIFICATION STAMP  
 DIV. OF THE SURVEY & MAPPING  
 OFFICE OF PUBLIC WORKS  
 04 110562  
 AR [Signature] GS [Signature]  
 DATE APR 07 2011

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 Fax: (415) 774-2223

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DATE \_\_\_\_\_

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DATE \_\_\_\_\_

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 PALO VERDE COMMUNITY COLLEGE DISTRICT  
 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363

PLUMBING BASEMENT PLAN

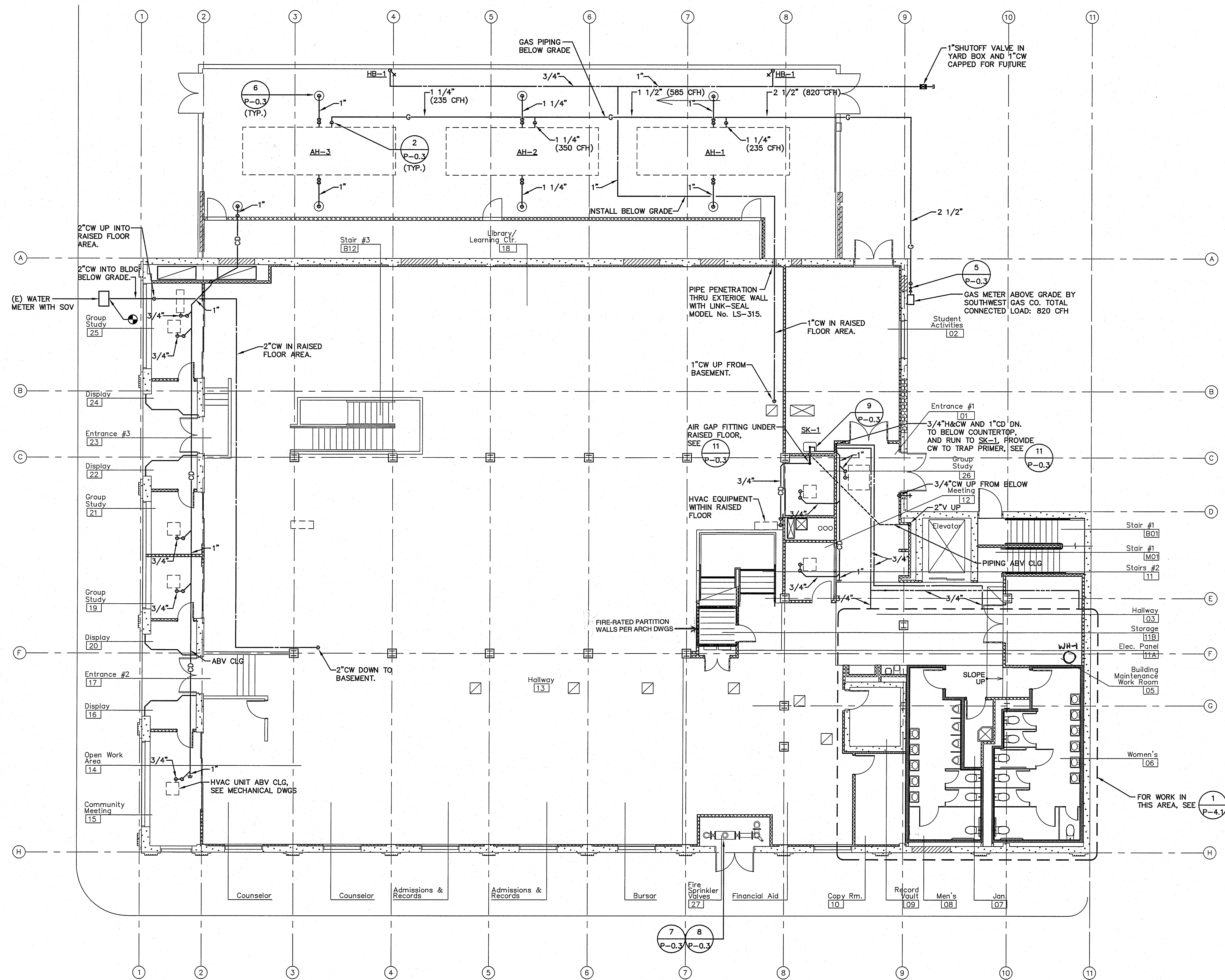
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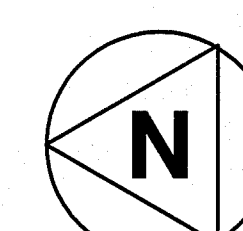
DCGA #20-05101

PLUMBING BASEMENT PLAN



**GENERAL NOTES**

1. GAS PIPE SIZES ARE BASED ON THE 2001 CPC, TABLE 12-3 AT A TOTAL DEVELOPED LENGTH OF 150 FEET.



**PLUMBING FIRST FLOOR PLAN**

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

110562  
APR 07 2011

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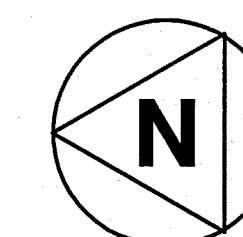
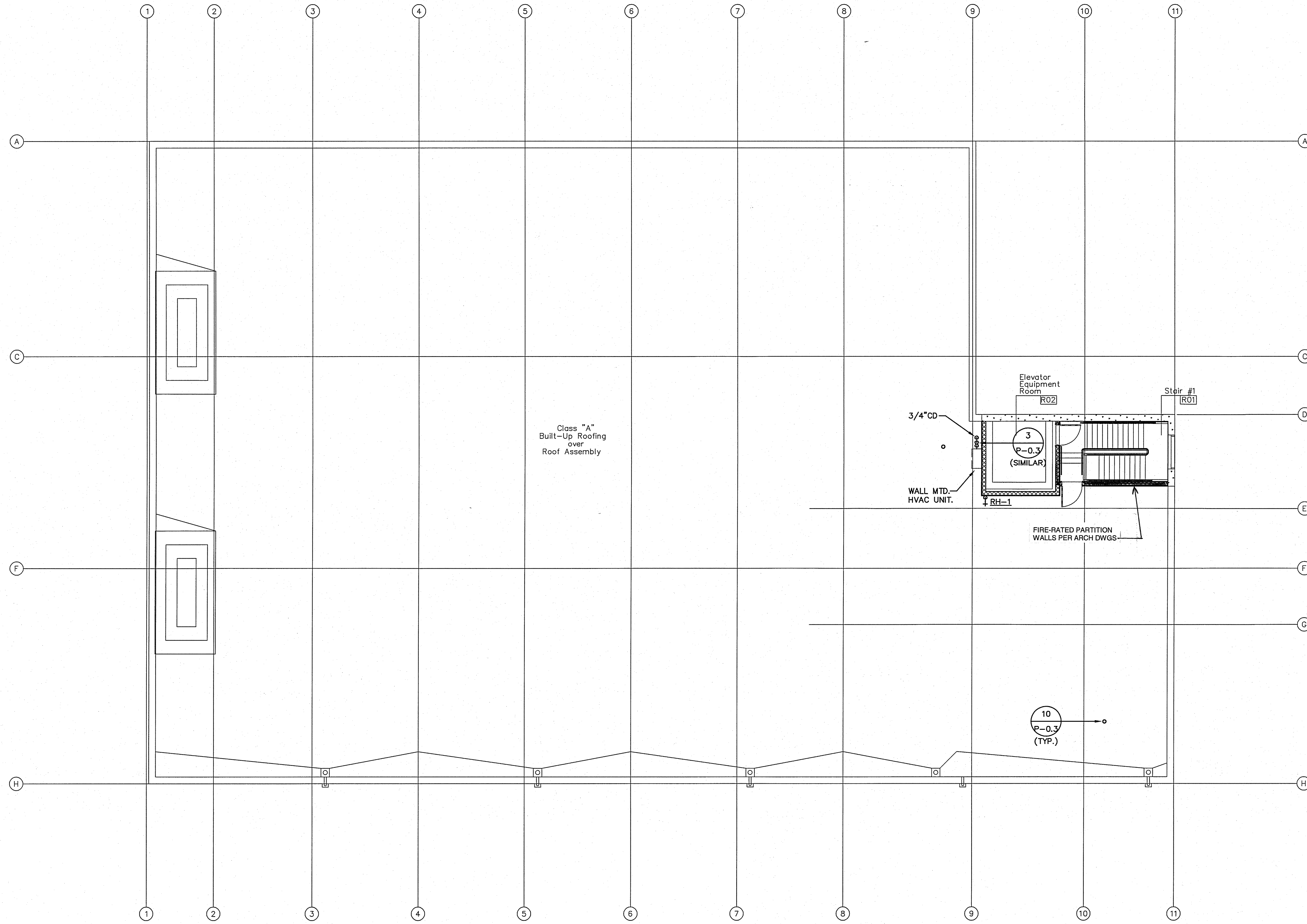
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**CLAYPOOL BUILDING RECONSTRUCTION**  
**PALO VERDE COLLEGE, NEEDLES CENTER**  
PALO VERDE COMMUNITY COLLEGE DISTRICT  
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**PLUMBING FIRST FLOOR PLAN**

DATE: 07-08-07  
JOB NO.: 2007-SHBC-03  
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CHECKED BY: JRM/NA

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**P2.1**



PLUMBING ROOFPLAN

SCALE  
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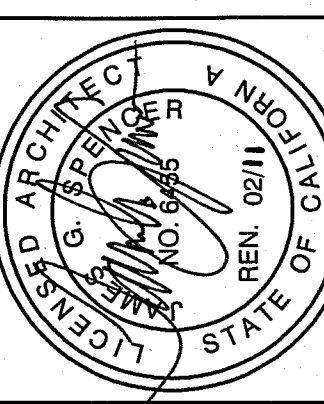


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CLAYPOOL BUILDING RECONSTRUCTION  
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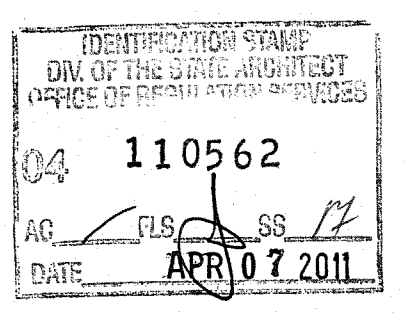
PLUMBING ROOF PLAN

DATE	07-06-07
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JRM	AC
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**P3.1**

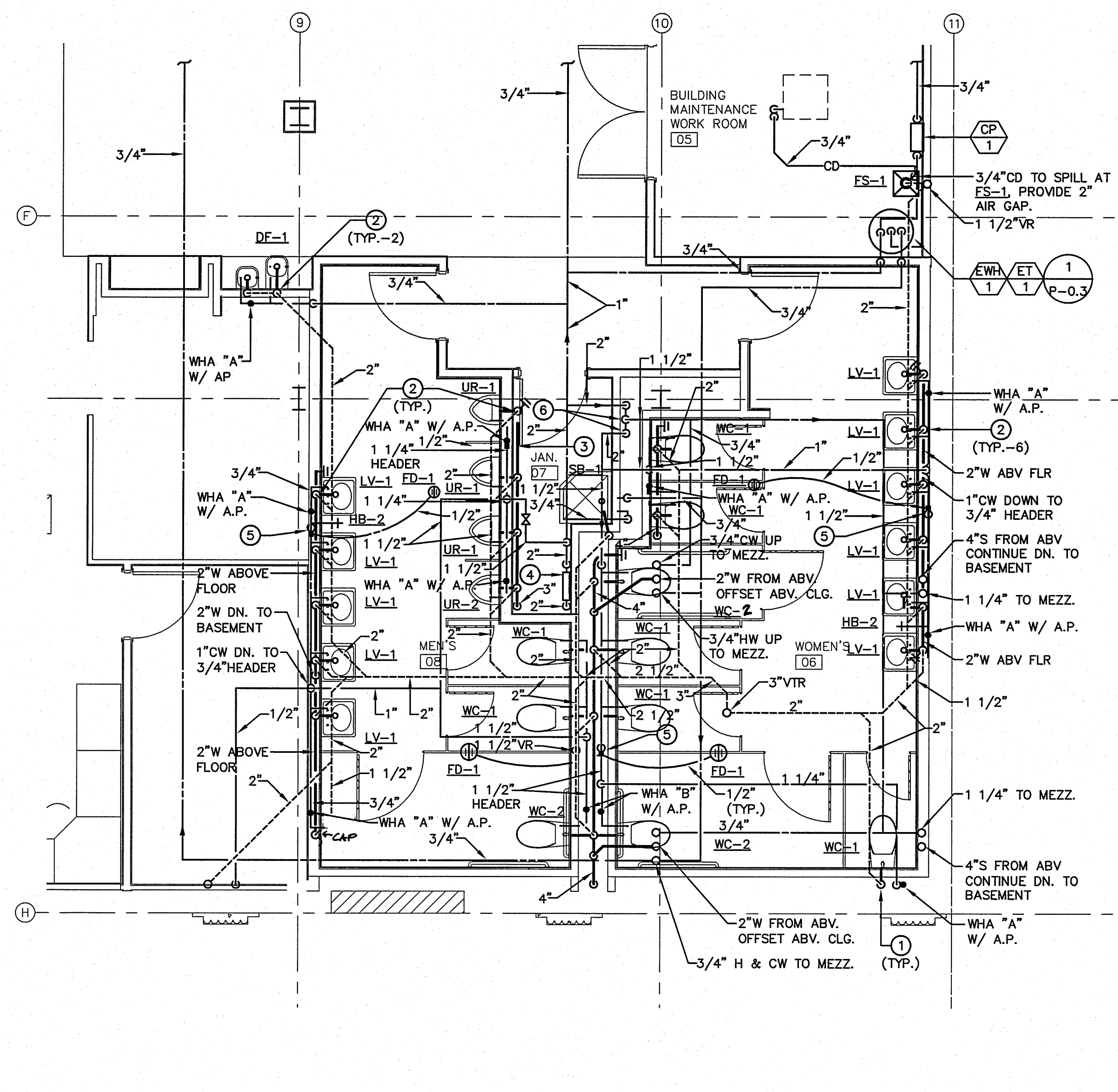
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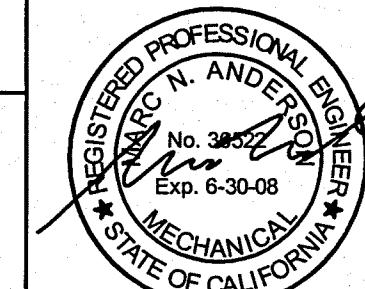
SHEET NOTES

- ① 4"W DOWN AND 2"V RISE.
- ② 2"W DOWN AND 1 1/2"V RISE.
- ③ EXPOSED 3"W ABOVE FINISHED FLOOR.
- ④ WALL MOUNTED PRESSURE REDUCING STATION. SEE P-0.3
- ⑤ 1/2"CW DOWN TO TRAP PRIMER, PROVIDE ACCESS PANEL.
- ⑥ ISOLATION VALVES AT 6"-6" ABOVE FINISHED FLOOR BEHIND ACCESS PANEL.



ENLARGED PLUMBING PLAN

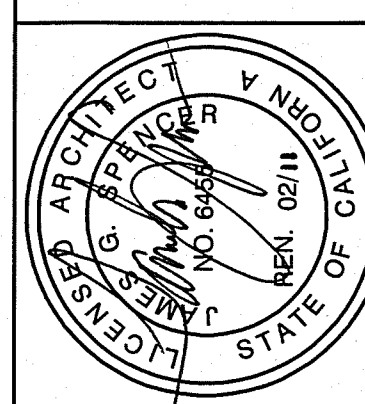
SCALE 1/4"=1'-0" 1



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**CLAYPOOL BUILDING RECONSTRUCTION**  
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**ENLARGED PLUMBING PLAN**

DATE	07-06-07
JOB NO.	2007-SHBS-00
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CHECKED	JRM/MA

110562  
 DATE: APR 07 2011

SHEET NO. **P4.1**

GENERAL NOTES

CODE ANALYSIS
THE CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO THE REQUIREMENTS OF:
1. CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, PART 2 CALIFORNIA BUILDING CODE (CBC) - 2001 EDITION.
2. CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, PART 3 - CALIFORNIA ELECTRICAL CODE (CEC) - 2004 EDITION.
3. CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, PART 9 - CALIFORNIA FIRE CODE (CFC) - 2001 EDITION.
ELECTRICAL NOTES
1. THE SEISMIC BRACING AND ANCHORAGE OF ELECTRICAL CONDUITS, BUS DUCT, WIREWAY, ETC. SHALL BE IN ACCORDANCE WITH THE MASON INDUSTRIES 'SEISMIC RESTRAINT GUIDELINES FOR SUSPENDED PIPING, DUCTWORK AND ELECTRICAL SYSTEMS', APPROVED BY OSHPD AUGUST 2002, PRE-APPROVAL NO. CPA-0349.
2. ALL ELECTRICAL PREFABRICATED EQUIPMENT SHALL BE DESIGNED AND CONSTRUCTED IN SUCH A MANNER THAT ALL PORTIONS, ELEMENTS, SUB-ASSEMBLIES AND/OR PARTS OF SAID EQUIPMENT, AND THE EQUIPMENT AS A WHOLE INCLUDING ITS ATTACHMENTS, WILL RESIST A LOAD WHICH EXCEEDS THE FORCE LEVEL USED TO RESTRAIN AND ANCHOR THE EQUIPMENT TO THE SUPPORTING STRUCTURE.
3. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATORIES (UL) AND BEAR THEIR LABEL OR LISTED AND CERTIFIED BY A NATIONALLY RECOGNIZED TESTING AUTHORITY WHERE UL DOES NOT HAVE A LISTING. CUSTOM MADE EQUIPMENT SHALL HAVE COMPLETE TEST DATA SUBMITTED BY THE MANUFACTURER ATTESTING TO ITS SAFETY. IN ADDITION, THE MATERIALS, EQUIPMENT, AND INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING:
AMERICAN SOCIETY OF TESTING MATERIALS (ASTM)
INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA)
NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
AMERICAN STANDARD ASSOCIATION (ASA)
NATIONAL FIRE PROTECTION AGENCY (NFPA)
AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)
CALIFORNIA ELECTRICAL CODE (CEC) - LATEST EDITION
CALIFORNIA CODE OF REGULATIONS TITLE 24 (CCR)
INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
ALL LOCAL CODES HAVING JURISDICTION.
WHERE THE CODES HAVE DIFFERENT LEVELS OF REQUIREMENTS, THE MOST STRINGENT RULE SHALL APPLY.
4. THE CONTRACTOR SHALL VISIT THE SITE INCLUDING ALL AREAS INDICATED ON THE DRAWINGS. HE SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND BY SUBMITTING A BID, ACCEPTS THE CONDITIONS UNDER WHICH HE SHALL BE REQUIRED TO PERFORM HIS WORK.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF CONTRACT DOCUMENTS, ADDENDA, DRAWINGS AND SPECIFICATIONS. HE SHALL CHECK THE DRAWINGS OF THE OTHER TRADES AND SHALL CAREFULLY READ THE ENTIRE SPECIFICATIONS AND DETERMINE HIS RESPONSIBILITIES. FAILURE TO DO SO SHALL NOT RELEASE THE CONTRACTOR FROM DOING THE WORK IN COMPLETE ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
6. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, CHARGES, AND INCIDENTAL COSTS NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY STATE, COUNTY AND LOCAL GOVERNMENTAL AGENCIES.
7. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AT THE SITE. ANY COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE DRAWINGS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
8. THE CONTRACTOR SHALL PROVIDE AND KEEP UP-TO-DATE A COMPLETE RECORD SET OF DRAWINGS. THESE PRINTS SHALL BE CORRECTED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL DRAWINGS. THIS SET OF DRAWINGS SHALL BE KEPT ON THE JOB SITE AND SHALL BE USED ONLY AS A RECORD SET. THIS SHALL NOT BE CONSTRUED AS AUTHORIZATION FOR THE CONTRACTOR TO MAKE CHANGES IN THE LAYOUT WITHOUT DEFINITE INSTRUCTION IN EACH CASE. UPON COMPLETION OF THE WORK, A SET OF REPRODUCIBLE CONTRACT DRAWINGS SHALL BE OBTAINED FROM THE ARCHITECT, AND ALL CHANGES AS NOTED ON THE RECORD SET OF DRAWINGS SHALL BE INCORPORATED THEREIN WITH BLACK INK IN A NEAT, LEGIBLE, UNDERSTANDABLE AND PROFESSIONAL MANNER. FAILURE TO KEEP RECORD DRAWINGS UP-TO-DATE SHALL CONSTITUTE CAUSE FOR WITHHOLDING OF PROGRESS PAYMENTS.
9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE TEMPORARY POWER FACILITIES AND CONNECTIONS FOR ALL SYSTEMS REQUIRED THROUGH THE COURSE OF CONSTRUCTION AND TO COORDINATE SERVICES WITH THE LOCAL UTILITY COMPANY.
10. SHOP DRAWINGS SHALL BE SUBMITTED WITHIN THIRTY DAYS AFTER AWARD OF THE CONTRACT. THE CONTRACTOR SHALL SUBMIT EIGHT COPIES OF A COMPLETE LIST OF MATERIALS AND EQUIPMENT INCLUDING MANUFACTURER AND MODEL NUMBERS PROPOSED FOR THE JOB. SHOP DRAWINGS SHALL INCLUDE JOB DESCRIPTION, ARCHITECT AND ENGINEER IDENTIFICATION, AND ALL DATA WITH CAPACITIES, SIZES, DIMENSIONS, CAT# NUMBERS, AND MANUFACTURER'S BROCHURES. SHOP DRAWINGS SHALL BE SUBMITTED FOR ITEMS LISTED IN SPECIFICATIONS. PARTIAL, INCOMPLETE, OR UNBOUND SUBMITTALS WILL BE RETURNED WITHOUT REVIEW. CONTRACTOR SHALL SUBMIT A SCHEDULE OF ALL SHOP DRAWINGS AND SUBMITTALS WHICH ARE TO BE REVIEWED WITHIN FIFTEEN DAYS OF CONTRACT AWARD.
11. AFTER ALL REQUIREMENTS OF THE SPECIFICATIONS AND/OR THE DRAWINGS HAVE BEEN FULLY COMPLETED, REPRESENTATIVES OF THE OWNERS WILL INSPECT THE WORK. THE CONTRACTOR SHALL PROVIDE COMPETENT PERSONNEL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM TO THE FULL SATISFACTION OF EACH REPRESENTATIVE. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE OWNER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE.
12. THE CONTRACTOR SHALL FURNISH A ONE YEAR WRITTEN GUARANTEE OF MATERIALS AND WORKMANSHIP FROM THE DATE OF SUBSTANTIAL COMPLETION.
13. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW AND TO COORDINATE WITH THE MECHANICAL, FIRE PROTECTION AND PLUMBING DRAWINGS FOR DUCTS, LINES AND EQUIPMENT.
14. ALL EQUIPMENT LOCATED ON EXTERIOR OF BUILDING SHALL BE WEATHERPROOF.
15. ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR.
16. COORDINATE WITH OTHER TRADES AS TO THE EXACT LOCATION AND CONFIGURATION OF THEIR RESPECTIVE EQUIPMENT. SUPPLY POWER AND MAKE CONNECTION TO MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS INDICATED ON THE SINGLE LINE DIAGRAM, ELECTRICAL DRAWINGS, AND DRAWINGS OF OTHER TRADES. REVIEW THE DRAWINGS OF OTHER TRADES FOR CONTROL DIAGRAMS, SIZE AND LOCATION OF EQUIPMENT, DISCONNECT SWITCHES, STARTERS, WIRING, CONTROLS, AND CONDUIT FOR MECHANICAL AND PLUMBING OPERATIONS SHALL BE PROVIDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING MANUFACTURER'S SHOP DRAWINGS PRIOR TO ROUTING IN ALL CONDUIT TO THIS EQUIPMENT.

17. EXACT METHOD AND LOCATION OF CONDUIT PENETRATION AND OPENINGS IN CONCRETE OR MASONRY WALLS, GRADEBEAMS, FLOORS OR STRUCTURAL STEEL MEMBERS SHALL BE AS DETERMINED BY THE STRUCTURAL ENGINEER. PERFORM CORING, SAWCUTTING, PATCHING, AND REFINISHING OF WALLS AND SURFACES WHEREVER IT IS NECESSARY TO PENETRATE OPENINGS SHALL BE SEALED IN AN APPROVED METHOD TO MEET THE FIRE RATING OF THE PARTICULAR WALL, FLOOR OR CEILING. EXACT METHOD AND LOCATIONS OF CONDUIT PENETRATIONS AND OPENINGS IN CONCRETE WALLS OR FLOORS SHALL BE FOR UL APPROVED SYSTEMS.
18. CONNECTIONS TO VIBRATING EQUIPMENT, MECHANICAL AND PLUMBING EQUIPMENT AND AT SEISMIC SEPARATIONS SHALL BE LIQUID-TIGHT STEEL CONDUIT.
19. EQUIPMENT OUTLETS, LIGHTING FIXTURES, CONDUIT, WIRE, AND CONNECTION METHODS IN HVAC AIR-PLenums SHALL BE APPROVED FOR USE IN PLENUMS AND SHALL CONFORM TO THE CEC.
20. ROUTE EXPOSED CONDUIT AND CONDUIT ABOVE ACCESSIBLE CEILING SPACES PARALLEL AND PERPENDICULAR TO WALLS AND ADJACENT PIPING. ARRANGE CONDUIT TO MAINTAIN HEADROOM AND TO PRESENT A NEAT APPEARANCE.
21. CONDUIT SHALL NOT BE INSTALLED IN ANY FLOOR SLAB. CONDUIT SHALL BE INSTALLED CONCEALED IN THE CEILING SPACE, CONCEALED IN WALLS, OR BELOW SLAB ON GRADE, UNLESS NOTED OTHERWISE.
22. ATTENTION IS CALLED TO THE FACT THAT THE CEILING SYSTEMS FOR THE MOST PART ARE CONSIDERED TO BE INACCESSIBLE. THE CONTRACTOR SHALL STRATEGICALLY LOCATE BOXES, ETC., IN AN ACCESSIBLE CEILING SPACE.
23. COORDINATE REQUIRED ACCESS DOORS IN NON-ACCESSIBLE CEILING TO SUIT FIELD CONDITIONS. THE EXACT SIZES AND PHYSICAL LOCATIONS SHALL SUIT ACCESSIBILITY AND CONSTRUCTION CONDITIONS. ACCESS DOORS SHALL BE PROVIDED IN OTHER SECTIONS OF THE SPECIFICATIONS. ACCESS DOORS SHALL HAVE A FIRE RATING EQUAL TO THE CEILING ASSEMBLY IN WHICH THEY ARE INSTALLED.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAWCUTTING, TRENCHING, BACKFILLING, COMPACTION AND PATCHING OF CONCRETE AND ASPHALT AS REQUIRED TO PERFORM HIS WORK. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN TRENCHING FOR HIS WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER AND APPROVED REPAIR OF ANY AND ALL DAMAGES CAUSED BY HIM OR HIS WORK.
25. WHENEVER A DISCREPANCY IN QUANTITY OR SIZE OF CONDUIT, WIRE, EQUIPMENT DEVICES, CIRCUIT BREAKERS, GROUND FAULT PROTECTION SYSTEMS, ETC. (ALL MATERIALS) ARISES ON THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL MATERIALS AND SYSTEMS ARE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE OWNER AND ARCHITECT/ENGINEER.
26. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY TYPE OF CEILING SYSTEMS AND TO FURNISH APPROVED LIGHTING FIXTURES OF THE TYPE REQUIRED FOR MOUNTING IN SUBJECT CEILING. WHERE FIXTURES ARE RECESSED IN PLASTER OR DRYWALL CEILINGS, THEY SHALL BE COMPLETE WITH NECESSARY MOUNTING HARDWARE AND PLASTER FRAMES.
27. ALL RECESSED LIGHTING FIXTURES, SPEAKERS, RECEPTACLES, SWITCHES, ETC., MOUNTED IN THE FIRE RATED CEILING OR WALLS SHALL BE ENCLOSED WITH AN APPROVED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE CEILING OR WALL.
28. UTILITY PENETRATIONS OF ANY KIND IN FIRE AND SMOKE PARTITIONS AND CEILING ASSEMBLIES, SHALL BE FIRESTOPPED AND SEALED WITH AN APPROVED MATERIAL SECURELY INSTALLED.
STEEL ELECTRICAL OUTLET BOXES WHICH DO NOT EXCEED 16 SQUARE INCHES IN AREA, NEED NOT BE PROTECTED IN ONE HOUR OR TWO HOUR FIRE RATED WALLS, PARTITIONS, CEILINGS, OR AREA SEPARATION UNLESS THEY:
OCCUR ON OPPOSITE SIDES OF THE WALL WITHIN 24 INCH HORIZONTAL DISTANCE OF ONE ANOTHER. IN THIS CASE, ONLY ONE OUTLET BOX NEED TO BE PROTECTED BY AN APPROVED FIRESTOP MATERIAL OR DETAIL TO CORRECT THIS CONDITION.
OCCUR IN COMBINATION WITH OUTLET BOXES OF ANY SIZE SUCH THAT THE AGGREGATE AREA OF UNPROTECTED OUTLET BOXES EXCEEDS 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL AREA. IN THIS CASE, ONLY A SUFFICIENT NUMBER OF OUTLET BOXES NEED BE PROTECTED BY AN APPROVED MATERIAL OR DETAIL TO DECREASE THE AGGREGATE AREA OF UNPROTECTED UTILITY BOXES TO LESS THAN 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL.
STEEL ELECTRICAL OUTLET BOXES WHICH EXCEED 16 SQUARE INCHES IN AREA, AND ALL OTHER STEEL UTILITY OUTLET BOXES REGARDLESS OF SIZE, SHALL BE PROTECTED BY AN APPROVED FIRESTOP MATERIAL AS LISTED OR EQUAL.
FIRESTOPPING MATERIAL: MPP-1 MOLDABLE PUTTY PADS 3M
CONTRACTOR PRODUCTS
MINNEAPOLIS, MN 3M TEST REPORT NO. 1167 DATE AUGUST 21, 1987
FSP FIRESTOP PUTTY PADS HEVI-DUTY
NELSON PRODUCTS TULSA, OK
FLAMESAFE FSP 1077 FIRESTOP PAD
INTERNATIONAL PROTECTIVE COATINGS OAKHURST, NJ
STEEL UTILITY BOXES WHICH EXCEED 100 SQUARE INCHES IN AREA SHALL BE PROTECTED BY ENCASEMENT.
UTILITY AND ELECTRICAL OUTLETS OR BOXES SHALL BE SECURELY FASTENED TO THE STUD OF FRAMING OF THE WALL, PARTITION OR CEILING ASSEMBLY. THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT SO THAT THE CLEARANCE BETWEEN THE BOX AND THE GYPSUM BOARD DOES NOT EXCEED 1/8 INCH. IN SMOKE WALLS OR PARTITIONS, THE 1/8 INCH CLEARANCE SHALL BE FILLED WITH AN APPROVED FIRE-RATED SEALANT.

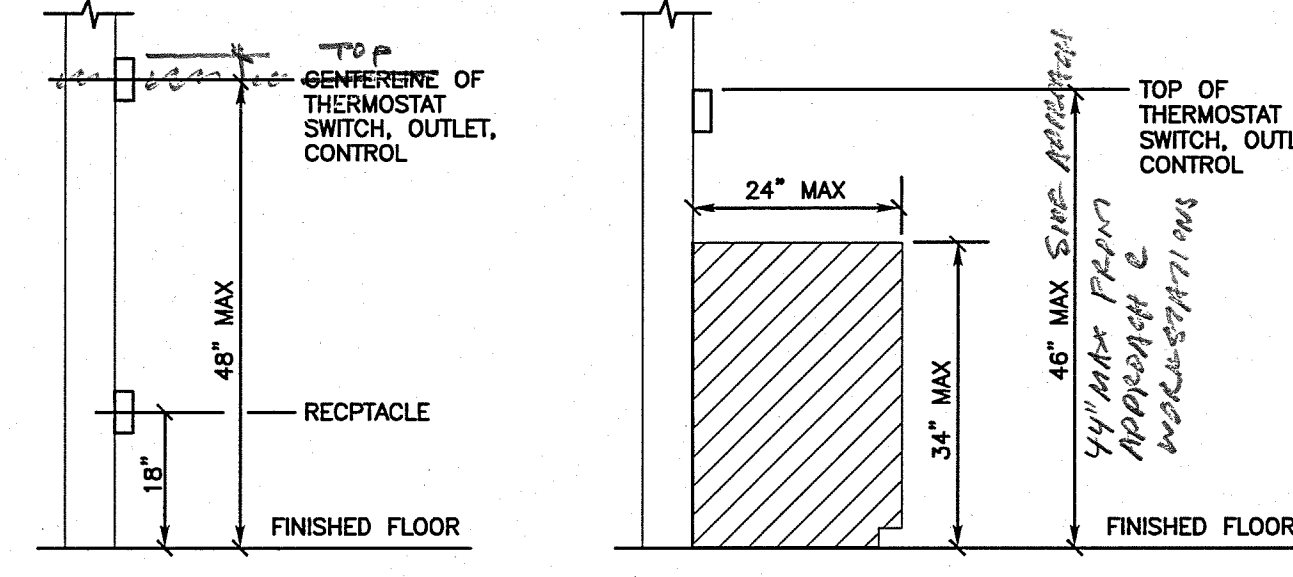
MAXIMUM NUMBER OF CONDUCTORS IN OUTLET OR JUNCTION BOXES SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE, ARTICLE 370-5, BUT IN NO CASE SHALL CONTAIN MORE THAN THE FOLLOWING NUMBER OF #12 AWG CONDUCTORS FOR THE SIZE OF BOX INDICATED. THE MINIMUM SIZE OUTLET OR JUNCTION BOX PERMITTED IN A WALL IS FOUR INCHES SQUARE BY 1-1/2 INCHES DEEP.
SQ. BY 1-1/2" D = 9 CONDUCTORS
4" SQ. BY 2-1/8" D = 13 CONDUCTORS
4-11/16" SQ. BY 1-1/2" D = 11 CONDUCTORS
4-11/16" SQ. BY 2-1/8" D = 18 CONDUCTORS
ALL OUTLET BOXES CONTAINING MORE THAN ONE DEVICE SHALL BE GANGED. TWO DEVICES DOUBLE GANGED, MINIMUM.
34. WHERE MULTI-HOMERUNS ARE INDICATED ON DRAWINGS INDICATING THE SAME PANELBOARD CIRCUIT NUMBER, PROVIDE JUNCTION BOX ABOVE ACCESSIBLE CEILING AND ROUTE ONE SET OF WIRES TO CIRCUIT BREAKERS.
35. THE NUMERALS SHOWN AT TOP OF LIGHT FIXTURE IDENTIFICATION SYMBOLS INDICATING THE NUMBER OF LIGHT FIXTURES REQUIRED SHALL NOT BE USED BY THE CONTRACTOR FOR HIS QUANTITY TAKE-OFF AT BIDDING, NOR FOR DETERMINATION OF HOW MANY FIXTURES WILL BE INSTALLED. THE CONTRACTOR SHALL INSTALL A LIGHT FIXTURE WHEREVER A FIXTURE OUTLET IS SHOWN ON THE DRAWINGS.
36. RECESSED PANELS AND CABINETS SHALL HAVE FIVE SPARE 3/4 INCH CONDUITS STUBBED UP INTO AN ACCESSIBLE CEILING SPACE AND CAPPED UNLESS OTHERWISE NOTED.
37. IDENTIFICATION NAMEPLATES SHALL BE MICARTA 1/8 INCH THICK AND OF APPROVED SIZE WITH BEVELED EDGES AND ENGRAVED WHITE LETTERS A MINIMUM OF 1/4 INCH HIGH ON BLACK BACKGROUND. NAMEPLATES SHALL BE PROVIDED FOR ALL CIRCUITS IN THE SERVICE DISTRIBUTION AND POWER DISTRIBUTION SWITCHBOARDS OR PANELBOARDS, MOTOR CONTROL CENTERS, LIGHTING DISTRIBUTION PANELBOARDS, SEPARATELY MOUNTED STARTING SWITCHES, DISCONNECTING SWITCHES, MOTOR CONTROL PUSHBUTTON STATIONS, SELECTOR SWITCHES, TRANSFORMERS, TERMINAL CABINETS, TELEPHONE CABINETS, ETC. ALL NAMEPLATES SHALL BE ATTACHED WITH SCREWS. (SEE SPECIFICATIONS 16195) PULLBOXES, JUNCTION BOXES, AND DEVICE BOXES SHALL BE MARKED WITH A PERMANENT MARKER.
38. THE EXACT LOCATION OF ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS, DETAILS, OR SECTIONS PRIOR TO INSTALLATION. ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE RECESSED IN WALLS UNLESS OTHERWISE NOTED. OUTLETS NOT INDICATED ON ARCHITECTURAL ELEVATIONS SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN. UNLESS OTHERWISE NOTED, MOUNT ELECTRICAL DEVICES AT THE FOLLOWING HEIGHTS: SWITCHES 6'-0"; TYPICAL WALL OUTLETS 6'-0".
REVIEW ARCHITECTURAL ELEVATIONS OF CASEWORK. OUTLETS MOUNTED ABOVE OR BELOW, OR ADJACENT TO CASEWORK SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS, PRIOR TO FINAL ROUGH-IN. ELECTRICAL DRAWINGS SHALL GOVERN NUMBER AND TYPE OF OUTLETS, PROVIDE CONDUIT, WIRES, AND OUTLETS FOR WORK REQUIRED IN CASEWORK INSTALLATIONS. REFERENCE ARCHITECTURAL DETAILS FOR METHOD OF ROUTING CONDUIT WITHIN CASEWORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUT-OUTS IN TILE OR COUNTER SPLASHES WHERE RECEPTACLES, OUTLETS, ETC., OCCUR. PROVIDE BOX EXTENSIONS THROUGH ALL CASEWORK. FINISH FLUSH WITH FACE OF SPLASH, CABINET, ETC.
MOUNTING HEIGHTS OF ALL DEVICES AND EQUIPMENT ARE FROM FINISHED FLOOR TO CENTER OF DEVICES AND EQUIPMENT UNLESS OTHERWISE NOTED. BOXES INSTALLED IN LOCATIONS NOT APPROVED BY THE ARCHITECT SHALL BE RELOCATED AS DIRECTED BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
39. DRAWINGS ARE DIAGRAMMATIC ONLY AND DO NOT SHOW SPECIAL CONDUIT ROUTING OR LENGTHS REQUIRED FOR A COMPLETE INSTALLATION. ROUTING OF RACEWAYS SHALL BE AT THE OPTION OF THE CONTRACTOR BUT SHALL BE IN STRICT COMPLIANCE WITH STRUCTURAL REQUIREMENTS AND SPECIFICATIONS UNLESS OTHERWISE NOTED AND SHALL BE COORDINATED WITH OTHER TRADES. DO NOT SCALE THE ELECTRICAL DRAWINGS FOR LOCATIONS OF ANY ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, OR MECHANICAL ITEMS OR FEATURES. REFER TO ARCHITECTURAL AND STRUCTURAL DIMENSIONAL DRAWINGS.
40. WHERE FIXTURES ARE SHOWN TO BE DUAL SWITCHED, SWITCH SO SHALL CONTROL THE TWO OUTSIDE LAMPS IN EACH FIXTURE, SO SHALL CONTROL THE REMAINING LAMPS IN EACH FIXTURE.
41. THE EQUIPMENT GROUNDING CONDUCTOR ALTHOUGH NOT SHOWN ON CONDUIT RUNS, SHALL BE INSTALLED AND RUN CONTINUOUS FROM PANEL TO LAST OUTLET. THIS WIRE SHALL BE PITGAILED IN EACH OUTLET FOR CONNECTION TO BOX AND DEVICE SO THAT IF DEVICE IS REMOVED, GROUND WILL NOT BE INTERRUPTED. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSULATED GREEN CONDUCTORS - ALTERNATE METHODS OF IDENTIFICATION SHALL NOT BE USED. CONTRACTOR SHALL NOTIFY ELECTRICAL ENGINEER TO EXAMINE CONDUCTOR INSTALLATION PRIOR TO INSTALLATION OF DEVICES.
42. COORDINATE WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR HOUSEKEEPING PADS, PROVIDE SIZES REQUIRED FOR EQUIPMENT TO BE INSTALLED.
43. JUNCTION AND PULL BOXES: FOR INTERIOR DRY LOCATIONS, BOXES SHALL BE GALVANIZED ONE-PIECE, DRAWN STEEL, KNOCKOUT TYPE WITH REMOVABLE MACHINE SCREW SECURED COVERS. FOR OUTSIDE, DAMP, OR SURFACE LOCATIONS, BOXES SHALL BE HEAVY CAST ALUMINUM OR CAST IRON WITH REMOVABLE, GASKETED, NON-FERROUS MACHINE SCREW SECURED COVERS. BOXES SHALL BE SIZED FOR THE NUMBER AND SIZES OF CONDUCTORS AND CONDUIT ENTERING THE BOX AND EQUIPPED WITH PLASTER EXTENSION RINGS WHERE REQUIRED. BOXES SHALL BE LABELED TO INDICATE PANEL AND CIRCUIT NUMBER, OR TYPE OF SIGNAL OR COMMUNICATIONS SYSTEM.
44. WHERE LIGHTING FIXTURES REQUIRE THE USE OF ACRYLIC PLASTIC LENSES, THEY SHALL BE 100 PERCENT VIRGIN ACRYLIC THERMOPLASTIC NOT LESS THAN 0.125 INCHES THICK EQUAL TO KSH-K12 UNLESS NOTED OTHERWISE.
45. MOTION SENSORS USED FOR LIGHTING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS FOR OPTIMUM COVERAGE, TYPICAL.
46. REVIEW STRUCTURAL DRAWINGS FOR LOCATIONS AND SIZES OF FOOTINGS AND GRADEBEAMS. SEE SHEET STRUCTURAL DRAWINGS FOR REQUIREMENTS FOR INSTALLATION OF CONDUIT THROUGH GRADEBEAMS/FOOTINGS, TYPICAL.
47. DURING CONSTRUCTION AND AT CLOSE OF PROJECT, CONTRACTOR SHALL MODIFY/UPDATE PANEL SCHEDULES TO REFLECT ACTUAL ROOMS/ SPACES WHERE OUTLETS WERE INSTALLED, USING OWNERS ROOM NAME DESIGNATIONS.
48. WHEN CONFLICTS OCCUR ON DRAWINGS AND IN SPECIFICATIONS, THE MOST STRINGENT APPLICATION SHALL APPLY AND SHALL BE PART OF THE BASE BID.
49. WHERE OUTLETS OCCUR AT TACKABLE WALL PANELS OR OTHER WALL FINISHES, PROVIDE EXTENSION RINGS AS REQUIRED SO THAT NO SPACE WILL EXIST BETWEEN DEVICE PLATE AND BACKBOX, PER CEC 370.220, TYPICAL. SEE ARCHITECTURAL ELEVATIONS FOR WALL FINISHES AND LOCATIONS.
50. ALL LIGHTING CONTROL OCCUPANCY SENSORS SHALL BE SET FOR MAXIMUM TIMEOUT SETTING AFTER INSTALLATION, TYPICAL.
51. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF ALL SEISMIC SEPARATIONS.
52. ALL CONDUITS/RACEWAYS SHALL BE INSTALLED CONCEALED EXCEPT INSIDE EXPOSED STRUCTURE IS ENCOUNTERED AT THE CEILING OF THE RELATED.

STRUCTURAL NOTE

UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED, NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.

SHEET INDEX

Table with 2 columns: Sheet Number and Description. Includes E-01 GENERAL NOTES AND SHEET INDEX, E-1.1 ELECTRICAL SITE PLAN, E-2.1 BASEMENT LIGHTING PLAN, E-2.2 FIRST FLOOR LIGHTING PLAN, E-2.3 MEZZANINE LIGHTING PLAN (OK), E-2.4 BASEMENT POWER PLAN, E-2.5 FIRST FLOOR POWER PLAN, E-2.6 MEZZANINE POWER PLAN, E-2.7 BASEMENT COMMUNICATION PLAN, E-2.8 FIRST FLOOR COMMUNICATION PLAN, E-2.9 MEZZANINE COMMUNICATION PLAN, E-2.10 ELECTRICAL ROOF PLAN, E-2.11 ENLARGED MECHANICAL YARD, E-3.1 FIRE-ALARM SYMBOLS, NOTES AND RISER DIAGRAM, E-3.2 FIRE-ALARM DETAILS, E-4.1 ELECTRICAL DETAILS, E-4.2 ELECTRICAL DETAILS, E-4.3 ELECTRICAL DETAILS, E-5.1 PANEL SCHEDULES.



MOUNTING HEIGHT OVER OBSTRUCTION

THE SEISMIC ANCHORAGE OF ELECTRICAL EQUIPMENT SHALL CONFORM TO C.C.R. TITLE 24, 2001 CBC, 1602A, AND TABLE 1604. ANCHORAGE DETAILS NOT SHOWN ON THE APPROVED PLANS OR OTHERWISE APPROVED BY DSA ARE SUBJECT TO FIELD APPROVAL BY THE ARCHITECT OR STRUCTURAL ENGINEER OF RECORD AND FIELD APPROVAL BY DSA.

Professional Engineer Seal for Spencer/Hoskins Associates, No. 110562, dated 07/2011.

E0.1

SHEET OF

DCGA #20-05101

Professional Engineer Seal for DSGA Engineers, No. 110562, dated 07/2011.

SPENCER / HOSKINS associates Architecture & Planning. Jay R. Title, AIA, Architect, C-12885. James G. Spencer, AIA, Architect, C-6485. Stephen R. Hoskins, AIA, Architect, C-7283. 666 Overland Court, Suite 100, San Dimas, California 91773-1718. (909) 971-6400. Fax: (909) 952-1921.

Professional Engineer Seal for Spencer/Hoskins Associates, No. 110562, dated 07/2011.

CLAYPOOLE BUILDING RECONSTRUCTION PALO VERDE COLLEGE, NEEDLES CENTER. PALO VERDE COMMUNITY COLLEGE DISTRICT, 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363. GENERAL NOTES & SHEET INDEX.

ELECTRICAL SYMBOLS LIST

ABBREVIATIONS LIST

EXISTING EQUIPMENT WITH "E" ADJACENT IS TO REMAIN U.N.O.
EXISTING EQUIPMENT WITH "R" ADJACENT IS TO BE COMPLETELY DISCONNECTED AND REMOVED.
EXISTING EQUIPMENT WITH "RR" ADJACENT IS TO BE DISCONNECTED, REMOVED AND RELOCATED TO NEW LOCATION AND RECONNECTED AS REQUIRED.
RELOCATED EQUIPMENT SHOWN IN NEW LOCATION.
EXISTING CONDUIT RUN TO REMAIN. EXISTING CONDUITORS TO REMAIN UNLESS NOTED OTHERWISE ON DRAWINGS.
EXISTING CONDUIT RUN TO BE ABANDONED. REMOVE CONDUITORS AND CAP ENDS OF CONDUIT.
EXISTING CONDUIT RUN TO BE REWED. REFER TO PLANS FOR WIRING REQUIREMENTS.
EXISTING CONDUIT AND WIRE RUN TO BE COMPLETELY DISCONNECTED AND REMOVED BACK TO LAST REMAINING OUTLET OR DEVICE.
"X" INDICATES APPROXIMATE POINT OF INTERSECTION OF EXISTING CONDUIT RUN. CONDUIT TO BE REMOVED AT "ER" SIDE OF "X". REMOVE ALL CONDUITS PRIOR TO CUTTING CONDUIT. EXACT LOCATION OF ALL CONDUITS SHALL BE FIELD VERIFIED.
CONDUIT CONCEALED BELOW FLOORS OR IN WALLS
CONDUIT RUN EXPOSED.
CONDUIT RUN UNDERGROUND.
CONDUIT STUBBED OUT AND CAPPED. PULL LINE IN PLACE.
CROSS LINES ON CONDUIT RUNS INDICATE NUMBER OF #12 CURRENT CARRYING CONDUCTORS CONTAINED THEREIN. TWO #12 AND MINIMUM OF ONE #12 GROUND WIRE ARE INDICATED WHEN CROSS LINES ARE NOT SHOWN. NUMERALS ADJACENT TO CROSS LINES ON CONDUIT RUNS INDICATE SIZE OF CONDUCTORS IN LIEU OF #12. ALL CONDUITS SHALL CONTAIN ONE GROUND WIRE SIZED PER C.E.C. TABLE 250-95. BUT NOT SMALLER THAN #12. WHERE ISOLATED GROUND RECEPTABLES ARE INDICATED, PROVIDE ADDITIONAL #12 GROUND WIRE IN CONDUIT RUNS, CONNECTED FROM ISOLATED GROUND BUS IN PANEL TO DEVICE, TYPICAL.
CONDUIT HOMERUN TO PANELBOARD. LETTER AND NUMERALS INDICATE ELECTRICAL PANEL AND CIRCUIT NUMBER.
SURFACE MOUNTED BRANCH CIRCUIT PANELBOARD.
RECESSED BRANCH CIRCUIT PANELBOARD.
PANEL DESIGNATION.
RECESSED COMMUNICATION TERMINAL CABINET. REFER TO DRAWINGS AND SPECIFICATIONS.
SURFACE MOUNTED COMMUNICATION TERMINAL CABINET. REFER TO DRAWINGS AND SPECIFICATIONS.
JUNCTION BOX IN ACCESSIBLE CEILING SPACE OR FLUSH IN WALL WITH BLANK COVER PLATE TO MATCH DEVICE PLATES.
JUNCTION BOX FLUSH FLOOR MOUNTED.
JUNCTION BOX PEDESTAL TYPE FLOOR MOUNTED.
JUNCTION BOX STEM MOUNTED.
THREE PHASE FRACTIONAL OR INTEGRAL HORSEPOWER MOTOR. NUMERAL IN PLACE OF "M" INDICATES HORSEPOWER.
MOLDED CASE CIRCUIT BREAKER AND NUMBER OF POLES AS INDICATED. "A" INDICATES AMPERE RATING. SUBSCRIPT INDICATES TYPE.
NO SUBSCRIPT THERMAL MAGNETIC
NA NON-AUTOMATIC
MO MAGNETIC ONLY
CL CURRENT LIMITING
SS SOLID STATE
FUSED SWITCH. "AS" INDICATED AMPERE SWITCH RATING. "AFU" INDICATES AMPERE FUSE RATING, NUMBER OF POLES AS INDICATED.
ENCLOSED VOLTAGE TRANSFORMERS WITH 115# C. RISE RATING, PER SPECIFICATION SECTION 16461 FLOOR MOUNTED, COPPER WOUND, DRY TYPE, U.N.O.
CURRENT TRANSFORMERS, "C.T.s"
POTENTIAL TRANSFORMER, P.T.s.
UTILITY METER SOCKET, WITH C.T.s, CLIPS, ETC., PER SERVING UTILITY COMPANY.
GROUND, "GRD", "GND".
"GROUND FAULT INTERRUPTER"
GROUND FAULT PROTECTION DEVICE.
GROUND FAULT SENSOR.
AMMETER SWITCH, FOUR POSITION "PHASE A", "PHASE B", "PHASE C", AND OFF.
VOLTMETER SWITCH, SEVEN POSITION "PHASE A-N", "PHASE B-N", "PHASE C-N", "PHASE AB", "PHASE BC", "PHASE CA", AND OFF.
AMMETER.
VOLTMETER.
DEMAND (KILOWATT) METER.
USAGE (KILOWATT HOUR) METER.
CEILING LIGHT FIXTURE AND OUTLET, HID, FLUORESCENT, OR INCANDESCENT. LOWER CASE LETTER INDICATES CONTROLLING SWITCH, NUMERAL INDICATES CIRCUIT. SHADED SYMBOL INDICATES FIXTURE WITH EMERGENCY POWER PROVISIONS.
FLUORESCENT LIGHT FIXTURE OUTLET. LOWER CASE LETTER INDICATES CONTROLLING SWITCH, NUMERAL INDICATES CIRCUIT. SHADED CIRCLE DENOTES FIXTURE WITH EMERGENCY BATTERY POWER PROVISIONS.
FLUORESCENT STRIP FIXTURE. LOWER CASE LETTER INDICATES CONTROLLING SWITCH, NUMERAL INDICATES CIRCUIT. SHADED CIRCLE DENOTES FIXTURE WITH EMERGENCY POWER PROVISIONS.
BRACKET OR WALL MOUNTED SURFACE OR RECESSED LIGHT FIXTURE AND OUTLET, HID, FLUORESCENT OR INCANDESCENT. LOWER CASE LETTER INDICATES CONTROLLING SWITCH, NUMERAL INDICATES CIRCUIT. SHADED CIRCLE DENOTES FIXTURE WITH EMERGENCY POWER PROVISIONS.
ILLUMINATED EXIT LIGHT FIXTURE. SIDE, BACK, CEILING, OR PENDANT MOUNTED. SINGLE OR DOUBLE FACED AS NOTED BY SHADED ARC WITH OR WITHOUT DIRECTIONAL ARROW AS NOTED ON THE DRAWINGS. NOT TO BE USED AS JUNCTION BOX OR "THROUGH-WIRE" DEVICE. WITH BATTERY BACK-UP

LOW LEVEL EXIT LIGHT FIXTURE, WALL MOUNTED WITH OR WITHOUT DIRECTIONAL ARROW AS NOTED ON THE DRAWINGS. BOTTOM OF FIXTURE AT +10 INCHES ABOVE FINISHED FLOOR AND WITH FOUR INCHES OF DOOR FRAME WHERE APPLICABLE. PROVIDE WITH VANDAL COVER. WITH BATTERY BACK-UP
LIGHTING FIXTURE IDENTIFICATION SYMBOL. LETTER INDICATES FIXTURE TYPE. NUMERALS IN LOWER HALF OF HEXAGON INDICATE FIXTURE WATTAGE (INCLUDING BALLAST WHERE APPLICABLE). NUMERAL OUTSIDE TOP OF HEXAGON INDICATES NUMBER OF FIXTURES USED FOR LOAD CALCULATIONS. NUMERAL OUTSIDE BOTTOM OF HEXAGON INDICATES MOUNTING HEIGHT FROM FLOOR TO BOTTOM OF FIXTURE. OMISSION OF MOUNTING HEIGHT INDICATES CEILING MOUNTING.
WALL MOUNTED DUAL HEAD EMERGENCY LIGHTING FIXTURE UNIT.
INCANDESCENT LIGHTING DIMMER. REFER TO SPECIFICATIONS.
FLUORESCENT LIGHTING DIMMER. REFER TO SPECIFICATIONS.
WALL MOUNTED PASSIVE INFRARED OCCUPANCY SENSOR. MOUNT AT + 48 INCHES. WATTSTOPPER #WA-200 OR APPROVED EQUAL.
INFRARED/ULTRASONIC DUAL TECHNOLOGY TYPE OCCUPANCY SENSOR COMPLETE WITH ALL POWER SUPPLIES, RELAY PACKS AND CONNECTIONS. WATTSTOPPER DT-300 OR APPROVED EQUAL.
SWITCH. LOWER CASE LETTER AT BOTTOM INDICATES OUTLETS CONTROLLED. CAPITAL SUPERScript INDICATES SWITCH TYPE. MOUNT @ +48" U.N.O.
NO SUPERScript - SINGLE POLE SWITCH
2 - DOUBLE POLE
3 - THREE WAY
4 - FOUR WAY
I - ILLUMINATED HANDLE
K - KEYPAD SWITCH
LC - LOCKABLE COVER
M - MANUAL MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION
MC - MOMENTARY CONTACT
P - PILOT LIGHT
PR - PRESS TYPE
TP - THREE POSITION
T - TIMER- 0-4 HR ROTARY WITH HOLD-ON FEATURE
L - LOCKABLE POSITION TOGGLE SWITCH
WALL MOUNTED DUPLEX GROUNDING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE. MOUNT @ +18" U.N.O. COORDINATE LOCATIONS WITH SIGNAL DRAWINGS. "C" ADJACENT SYMBOL INDICATES DEVICE MOUNTED ON CEILING TYPICAL UNLESS NOTED OTHERWISE.
SYMBOL DENOTED DUPLEX RECEPTACLE MOUNTED IN FLOOR BOX PROVIDED, WIRED AND INSTALLED BY RAISED FLOOR MANUFACTURER. PANEL AND CIRCUIT ARE INDICATED FOR ELECTRICAL CONTRACTOR TO MAKE FINAL CONNECTION AT RELATED BRANCH CIRCUIT PANELBOARDS.
DUPLEX GROUND FAULT INTERRUPTING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE. MOUNT @ +18" U.N.O. "MPL" ADJACENT INDICATES WEATHER RESISTANT STAINLESS STEEL LOCKING COVER.
DUPLEX TRANSIENT VOLTAGE SURGE SUPPRESSOR RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE. MOUNT @ +18" U.N.O.
SYMBOL DENOTED DUPLEX RECEPTACLE MOUNTED IN FLOOR BOX PROVIDED, WIRED AND INSTALLED BY RAISED FLOOR MANUFACTURER. PANEL AND CIRCUIT ARE INDICATED FOR ELECTRICAL CONTRACTOR TO MAKE FINAL CONNECTION AT RELATED BRANCH CIRCUIT PANELBOARDS.
FLUSH FLOOR MOUNTED DUPLEX GROUNDING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE.
PEDESTAL TYPE FLOOR MOUNTED DUPLEX GROUNDING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE.
ANY RECEPTACLE INDICATED WITH "IG" ADJACENT SHALL BE ISOLATED GROUND TYPE WITH INDIVIDUAL GROUND WIRE TO PANELBOARD.
TWO DUPLEX GROUND FAULT INTERRUPTING TYPE RECEPTABLES IN 3-GANG BOX WITH 2-GANG RING AND PLATE. 20A, 125 VOLT, 2 POLE, 3 WIRE.
20 AMP DUPLEX RECEPTACLE IN SPECIAL FLOOR BOX. (AMP-557-601-2).
(2)20 AMP DUPLEX RECEPTABLES IN SPECIAL FLOOR BOX. (AMP-557-601-2).
SPECIAL PURPOSE OUTLET MOUNTED IN FLUSH WALL BOX. LETTER INDICATES TYPE.
A - NEMA TYPE 11-20R (208 VOLT, 3 PHASE, 20 AMP)
B - NEMA TYPE 6-20R (208 VOLT, 1 PHASE, 20 AMP)
C - NEMA TYPE 6-30R (208 VOLT, 1 PHASE, 30 AMP)
D - NEMA TYPE 6-50R (208 VOLT, 1 PHASE, 50 AMP)
E - NEMA TYPE 5-30R (120 VOLT, 1 PHASE, 30 AMP)
F - NEMA TYPE 11-30R (208 VOLT, 3 PHASE, 30 AMP)
G - NEMA TYPE 5-50R (120 VOLT, 1 PHASE, 50 AMP)
H - NEMA TYPE L5-20R (120 VOLT, 1 PHASE, 20 AMP TWIST LOCK)
K - NEMA TYPE 11-50R (208 VOLT, 3 PHASE, 50 AMP)
L - NEMA TYPE 14-30R (120/208 VOLT, 1 PHASE, 30 AMP)
M - NEMA TYPE 14-20R (120/208 VOLT, 1 PHASE, 20 AMP)
N - NEMA TYPE L6-20R (208 VOLT, 1 PHASE, 20 AMP TWIST LOCK)
FLUSH FLOOR MOUNTED SPECIAL PURPOSE OUTLET. TYPE AS INDICATED ABOVE.
PEDESTAL TYPE SPECIAL PURPOSE OUTLET. TYPE AS INDICATED ABOVE.
STEM MOUNTED SPECIAL PURPOSE OUTLET. TYPE AS INDICATED ABOVE. MOUNTING HEIGHT INDICATED IS FINISHED FLOOR TO TOP OF OUTLET.
NON-FUSED DISCONNECT SWITCH. "AS" INDICATES SWITCH AMPERE RATING.
FUSED DISCONNECT SWITCH. "AS" INDICATES SWITCH AMPERE RATING. "AFU" INDICATES FUSE AMPERE RATING.
MAGNETIC MOTOR STARTER. ROMAN NUMERAL INDICATES NEMA STARTER SIZE. ADDITIONAL SUBSCRIPTS INDICATE STARTER TYPE AND SIZE. (TYPICAL FOR ALL MAGNETIC STARTER SYMBOLS.)
NO SUBSCRIPT - FULL VOLTAGE, NON REVERSING
PR - PRIMARY RESISTOR REDUCED
VOLTAGE
AT - AUTOTRANSFORMER REDUCED
VOLTAGE
WD - WYE-DELTA REDUCED VOLTAGE
PW - PART WINDING REDUCED VOLTAGE
SS - SOLID STATE REDUCED VOLTAGE
REV - REVERSING TYPE
2S - TWO SPEED
2W - TWO WINDINGS
CH - CONSTANT HORSEPOWER
CT - CONSTANT TORQUE
VT - VARIABLE TORQUE
VF - VARIABLE FREQUENCY DRIVE
COMBINATION MAGNETIC MOTOR STARTER AND NON-FUSED DISCONNECT SWITCH.
COMBINATION MAGNETIC MOTOR STARTER AND FUSED DISCONNECT SWITCH.
COMBINATION MAGNETIC MOTOR STARTER AND CIRCUIT BREAKER.
COMBINATION MAGNETIC MOTOR STARTER AND MOTOR CIRCUIT PROTECTOR.

SINGLE PHASE FRACTIONAL OR INTEGRAL HORSEPOWER MOTOR.
THERMOSTAT OUTLET. MOUNT AT +48 INCHES UNLESS OTHERWISE NOTED SEE MECHANICAL DRAWINGS FOR LOCATIONS.
SURFACE NON-METAL RACEWAY FOR COMMUNICATIONS (AND POWER WHERE CALLED FOR ON DRAWINGS). REFER TO WIREMOLD 5400 SERIES, WITH ALL OPTIONS, ANCHORING ATTACHMENTS, ENDCAPS, ETC. REQUIRED FOR A COMPLETE INSTALLATION.
SURFACE MOUNTED NONMETAL PLUGMOLD RACEWAY WITH 20 AMP GROUNDING DUPLEX ISOLATED GROUND RECEPTABLES AT 12" ON CENTER.(2 CKT. TYPE - HUBBELL #P206212)
TRANSFORMER PRIMARY AND SECONDARY VOLTAGE AND KVA RATINGS AS NOTED. TYPE AND CONFIGURATION AS SPECIFIED. PROVIDE DRY TYPE, COPPER WOUND, WALL OR BOX MOUNTED UNLESS NOTED OTHERWISE.
FLUSH MOUNTED 4S BOX IN CEILING WITH BLANK COVERPLATE FOR FUTURE SECURITY SYSTEM MOTION SENSOR.
SECURITY/INTRUSION SYSTEM CONDUIT. RUN 3/4 INCH CONDUIT ONLY MINIMUM.
4S BOX OUTLET FOR FUTURE SECURITY SYSTEM KEYPAD. MOUNT AT +48 INCHES ON CENTER.
WALL MOUNTED BATTERY OPERATED CLOCK. MOUNT AT +96" INCHES ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE ON DRAWINGS.
VOICE/DATA PULL BOX MOUNTED IN ACCESSIBLE CEILING SPACE. MINIMUM 12"x12"x6"D WITH SCREWED ON COVER UNLESS NOTED OTHERWISE.
FIRE TREATED TELEPHONE TERMINAL BACKBOARD "TTB". 3/4 INCH SANDED AND PAINTED WHITE CPX PLYWOOD, 4' X 8' MINIMUM UNLESS NOTED OTHERWISE.
VOICE SYSTEM CONDUIT RUN. NUMERAL ADJACENT TO "T" INDICATES QUANTITY OF 4 PAIR UTP CATEGORY 5E CABLES IN RUN. PROVIDE 1" CONDUIT FOR 1-8 CABLES, AND 1 1/2" CONDUIT FOR 9-16 PAIRS OF CABLE.
TELEPHONE OUTLET WITH RJ-45 JACK. MOUNT AT +18 INCHES TO CENTER UNLESS OTHERWISE NOTED. "W" ADJACENT INDICATES WALL MOUNTED AT +48 INCHES TO CENTER. "Z" DENOTES DUPLEX OUTLET. "P" DENOTES PUBLIC TELEPHONE OUTLET MOUNTED AT +48 INCHES.
DATA SYSTEM CONDUIT RUN. NUMERAL ADJACENT TO "CD" INDICATES QUANTITY OF PROPOSED CAT 5E (4 PAIR) UTP CABLES IN RUN. 1" CONDUIT FOR 1-8, (4 PAIR) CABLES AND 1 1/2" CONDUIT FOR 9-16 (4 PAIR) CABLES
COMPUTER OUTLET WITH CAT 5E RATED RJ-45 JACK, MOUNT AT +18 INCHES TO CENTER UNLESS OTHERWISE NOTED. NUMERAL ADJACENT TO OUTLET INDICATES QUANTITY OF 4 PAIR CABLES.
FLUSH FLOOR MOUNTED COMPUTER OUTLET WITH CAT 6 RATED RJ-45 JACK IN SPECIAL FLOOR BOX.
COMBINATION VOICE OUTLET AND TELEPHONE/DATA OUTLET. 4S BOX WITH 2 GANG RING AND PLATE. ENGRAVE PLATE "VOICE" AND "DATA" OVER RESPECTIVE JACKS. PROVIDE RJ-45 JACKS FOR VOICE AND DATA.
FLUSH FLOOR MOUNTED COMBINATION VOICE/DATA OUTLET WITH RJ-45 JACKS IN SPECIAL FLOOR BOX PER SPECS.
VOICE/DATA SYSTEM CONDUIT RUN, 1" C. MINIMUM U.N.O. NUMERAL ADJACENT "T" INDICATES QUANTITY OF 4 PAIR CAT 5E CABLES (VOICE) CONTAINED IN RUN. NUMERAL ADJACENT "CD" INDICATES QUANTITY OF 4 PAIR CAT 6 RATED CABLES (DATA) CONTAINED IN RUN.
FIRE-RATED MULTI-TRACEWAY PENETRATION.
SYMBOL DENOTES 4S DEEP OUTLET BOX AND COVER PLATE AND 1 1/2" EMT CONDUIT ROUTED TO RAISED FLOOR SPACE FOR FUTURE VIDEO CABLING. OUTLET BOX SHALL BE MOUNTED FLUSH WITH CEILING WHERE DROP CEILING EXIST.

SEE E-3.1 FOR FIRE ALARM SYMBOLS

AMPERE FRAME RATING OF CIRCUIT BREAKERS
ABOVE FINISHED FLOOR
AMPERE FUSE RATING
AMPERS INTERRUPTING CAPACITY RATING (RMS SYMMETRICAL MINIMUM)
AMMETER
AMPERES
APPROVED
AMPERE SWITCH RATING
AMPERE TRIP RATING OF BREAKER
AUTOMATIC
AUTOMATIC TRANSFER SWITCH
AMERICAN WIRE GAUGE
BELOW FINISHED CEILING
BREAKER
CONDUIT
CATEGORY 5 ENHANCED 4PAIR UTP CABLE
CATEGORY 6 4PAIR UTP CABLE
CABINET
CLOSED CIRCUIT TELEVISION
CENTER TO CENTER
CANDELA
CHLORINE, CHLORINATION
CIRCUIT
CEILING
COMMUNICATION MANHOLE
CONDUIT ONLY
COMPARTMENT
COMPRESSOR
COMMUNICATION PULLBOX
CONTROL POWER TRANSFORMER
CONTROL RELAY (MAGNETICALLY HELD U.N.O.)
CALIF. STATE FIRE MARSHALL
CURRENT TRANSFORMER
COPPER
DISCONNECT
DISTRIBUTION
DRAWING
ELEVATION
EMERGENCY
ENCLOSURE
EQUIPMENT
EXHAUST
EXISTING
FIRE ALARM ANNUNCIATOR
FIBER OPTIC CABLE DISTRIBUTION PANEL
FEEDER
FINISHED FLOOR
FINISHED GRADE
FIBER OPTIC CABLE
FIBER OPTIC CABLE OUTSIDE PLATE RATED FLOW SWITCH
FLEXIBLE
FLUORESCENT
FUTURE
FUSE, CPT PRIMARY
FUSE, CPT SECONDARY
GROUND
HAND HOLE
HAND-OFF-AUTOMATIC
HEATER
HERTZ
INTERCEPT COMMUNICATION PULLBOX
INCANDESCENT
INDICATION
INSTRUMENT
INTERCEPT POWER PULLBOX
SHORT CIRCUIT CURRENT
JUNCTION BOX
KILOWATTS
KILOWATT AMPERES
KILOWATT AMPERES REACTIVE
KILOWATT HOURS
KILOWATT HOUR DEMAND METER
PUSHBUTTON W/ "LOCK-OUT-STOP"
LIMIT SWITCH
LIGHT, LIGHTS
LIGHTING,
MELLIAMPS
MANUAL
MAGNETIC
MAXIMUM
MAIN CIRCUIT BREAKER
MOTOR CONTROL CENTER
THOUSAND CIRCULAR MILS
MOTOR CIRCUIT PROTECTOR
MANHOLE
MANUAL MOTOR STARTER
MINUTES MINIMUM
MOTOR OPERATED VALVE, METAL OXIDE VARISTOR
MOUNT, MOUNTED, MOUNTING
NO, NOS NUMBER NUMBERS
NAMEPLATE
NOT TO SCALE
ON CENTER
OVERLOAD
PULLBOX
POST INDICATOR VALVE
POWER MANHOLE
PANEL
PANELBOARD
POSITION
POWER PULLBOX
PRIMARY
PRESSURE SWITCH
POTENTIAL TRANSFORMER
POLYVINYL CHLORIDE
PART WINDING
POWER
RECEPTACLE
RECEPTACLES
REQUIRED
STATUS ANNUNCIATOR
SCHEDULE
SECONDS, SECONDARY
SECTION
SELECTOR SWITCH
SEQUENCE
SHIELD
SHEET
SIGNAL
START CONTACTOR COIL
SPECIFICATIONS
SPACE HEATER
SHUNT TRIP
STATON
STANDARD
STEEL
STARTER
SOLENOID VALVE
SWITCH
SYSTEM
SYMMETRICAL
TACHOMETER
TIME DELAY ON DE-ENERGIZATION
TIME DELAY ON ENERGIZATION
TEMPERATURE
TERMINAL
THERMOSTAT
TELEPHONE OUTSIDE PLANT RATED CABLE
TIME DELAY RELAY
TAMPER SWITCH
THERMOSTAT
TYPICAL
UNLESS NOTED OTHERWISE
UNDERGROUND PULL SECTION
UNSHIELDED TWISTED PAIR
VARIABLE FREQUENCY DRIVE
VOLTS
VOLTMETER
VOLTMETER SWITCH
WATTS
WATT HOUR METER
WEATHERPROOF
WEATHERPROOF LOCKING
TRANSFORMER
TRANSMITTER
3 POLE
6 STRAND MULTI-MODE FIBER OPTIC CABLE
6 STRAND SINGLE-MODE FIBER OPTIC CABLE

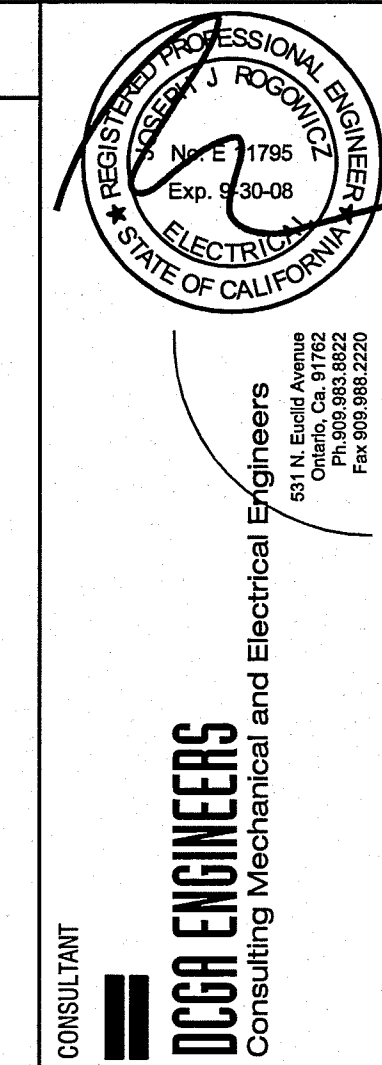
Professional Engineer Seal for Spencer/Hoskins Associates, Inc. License No. 110562, State of California. Includes company name, address (685 Overland Court, Suite 100, San Dimas, California 91773-1718), phone (909) 971-8400, fax (909) 592-1321, and project information: DATE 07-06-07, JOB NO. 2007-SH98-00, DRAWN BY, CHECKED BY, SHEET NO. E0.2, SHEET OF.





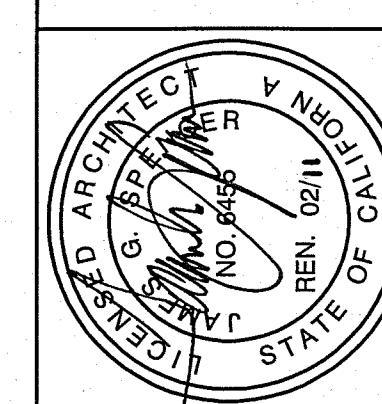
SHEET NOTES

- 1 CONDUIT RISER TO BE ROUTED UP UTILITY POLE PER THE CITY OF NEEDLES REQUIREMENTS.
- 2 REFER TO THE SINGLE LINE DIAGRAM FOR CONDUIT AND FEEDER SIZES. CONDUIT SHALL BE MINIMUM 36" BELOW GRADE.
- 3 EXISTING OVERHEAD TELEPHONE LINES. CONTRACTOR TO RE-USE EXISTING LINES COMING INTO BUILDING. COORDINATE EXACT REQUIREMENTS WITH TELEPHONE UTILITY PRIOR TO CONSTRUCTION.
- 4 PRECAST CONCRETE PULLBOX PER THE TELEPHONE COMPANY REQUIREMENTS.
- 5 PRECAST CONCRETE PULLBOX PER THE CABLE COMPANY REQUIREMENTS.
- 6 PROVIDE 1'-2" DEPTH REQUIRED PERCAST CONCRETE PULLBOX WITH TRAFFIC RATED BOLT-DOWN COVER ENGRAVED "LIGHTING". SET ON 6" COMPACTED CRUSHED ROCK.
- 7 REFER TO THE COMMUNICATION RISER DIAGRAM FOR CONDUIT SIZES. CONDUIT SHALL BE MINIMUM 36" BELOW GRADE.
- 8 MAKE CONNECTION TO ELECTRICAL SIGN PER THE MANUFACTURERS REQUIREMENTS. VERIFY EXACT LOCATION WITH THE ARCHITECT PRIOR TO CONSTRUCTION.
- 9 (1) 2"C. FOR TELEPHONE CABLE TO ROOM B04.
- 10 (1) 4"C.O. FOR CATV MINIMUM 36" BELOW GRADE.
- 11 (1) 4"C.O. FOR TELEPHONE MINIMUM 36" BELOW GRADE.



NO.	DATE	REVISIONS

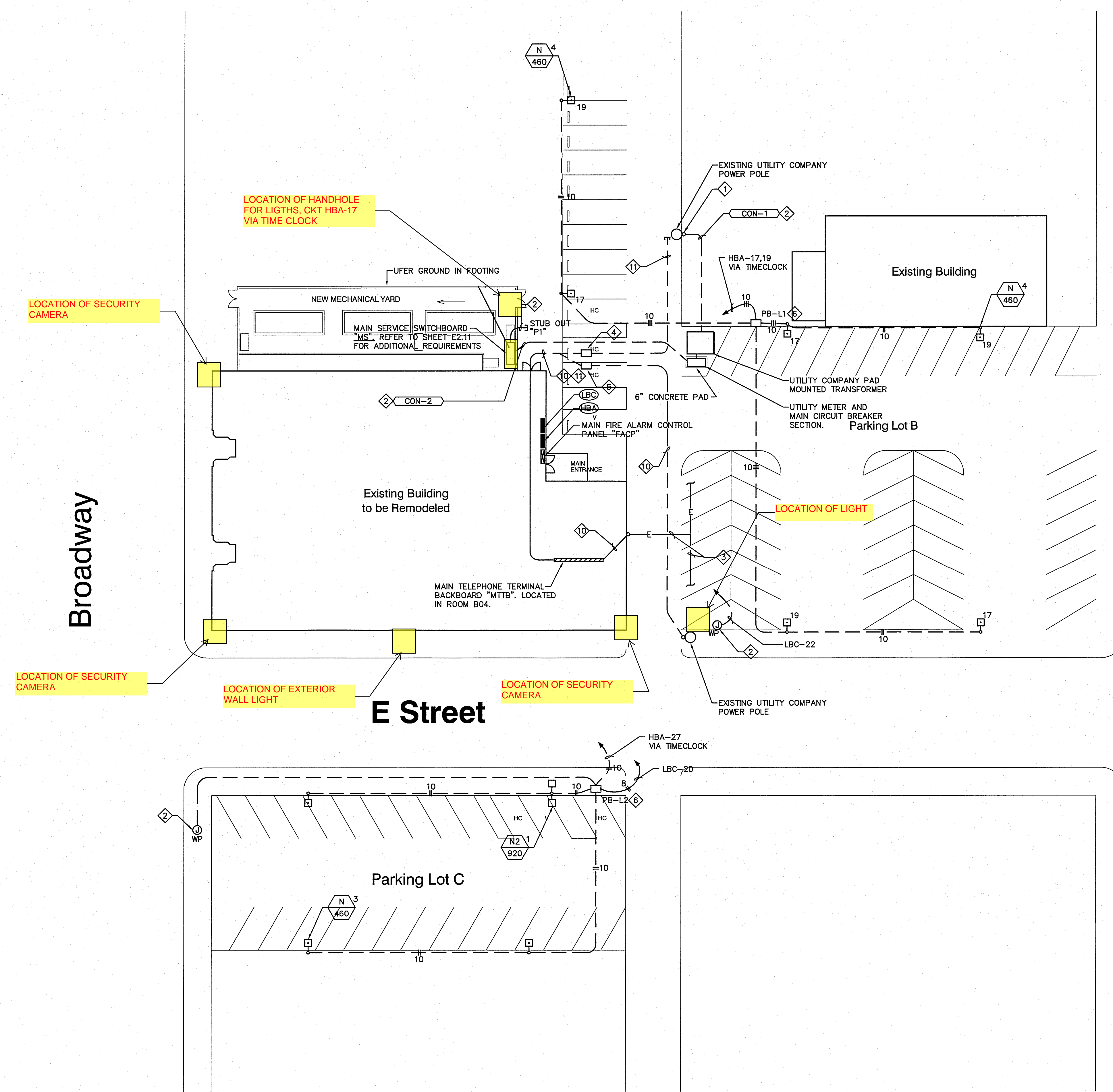
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**CLAYPOOL BUILDING RECONSTRUCTION**  
**PALO VERDE COLLEGE, NEEDLES CENTER**  
 PALO VERDE COMMUNITY COLLEGE DISTRICT  
 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363  
**ELECTRICAL SITE PLAN**

DATE	07/06/07
JOB NO.	2007-SH95-00
DRAWN	SL
CHECKED	KW/JR

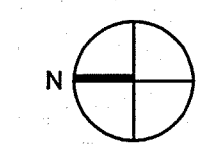
SHEET NO. **E1.1**



Third Street

TELEPHONE COMPANY CONTACT:  
 ALLEN COX  
 FRONTIER COMMUNICATIONS  
 (928) 763-0449

CATV COMPANY CONTACT:  
 DAVE RAMSEY  
 RAPID CABLE CO.  
 (775) 648-8111



DATE: APR 07 2011  
 110562

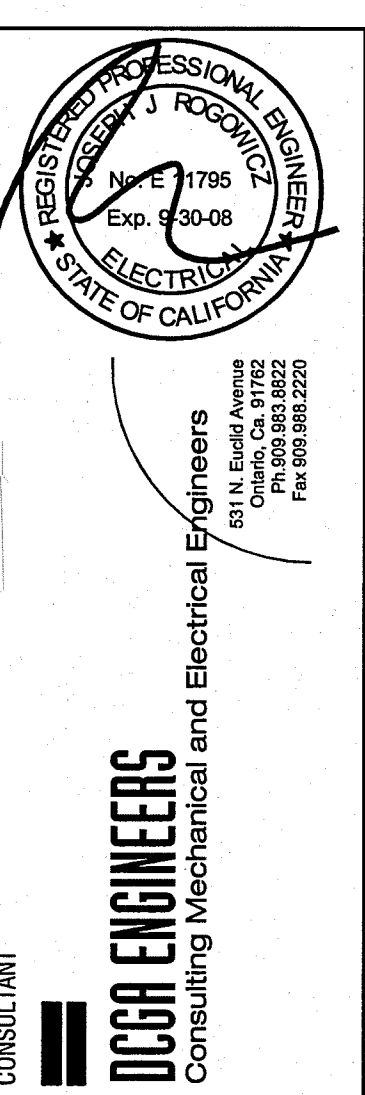
ELECTRICAL SITE PLAN

1" = 20'-0" 1

**SHEET NOTES**

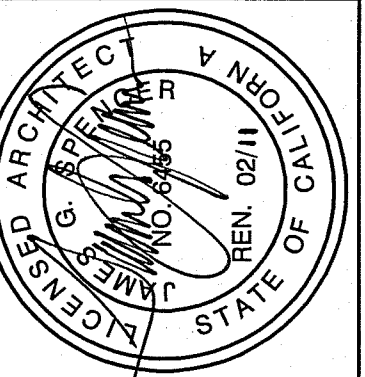
- ◇ REFER TO SHEET E2.2 FOR CONTINUATION.
- ◇ MOUNT LIGHT FIXTURE TO BEAMS ABOVE. PROVIDE "ERICO CADDY" BEAM CLAMP #BC280025EG WITH RETAINER STRAP.

**GENERAL NOTE:**  
 1 FOR CONDUIT PENETRATIONS THROUGH FIRE-RATED WALLS, COMPLY WITH CBC SECT 709.6 AND U.L. DESIGN #WL1001. REFER TO DETAILS 2 & 3 ON SHEET E4.3.



NO.	DATE

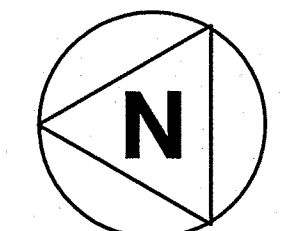
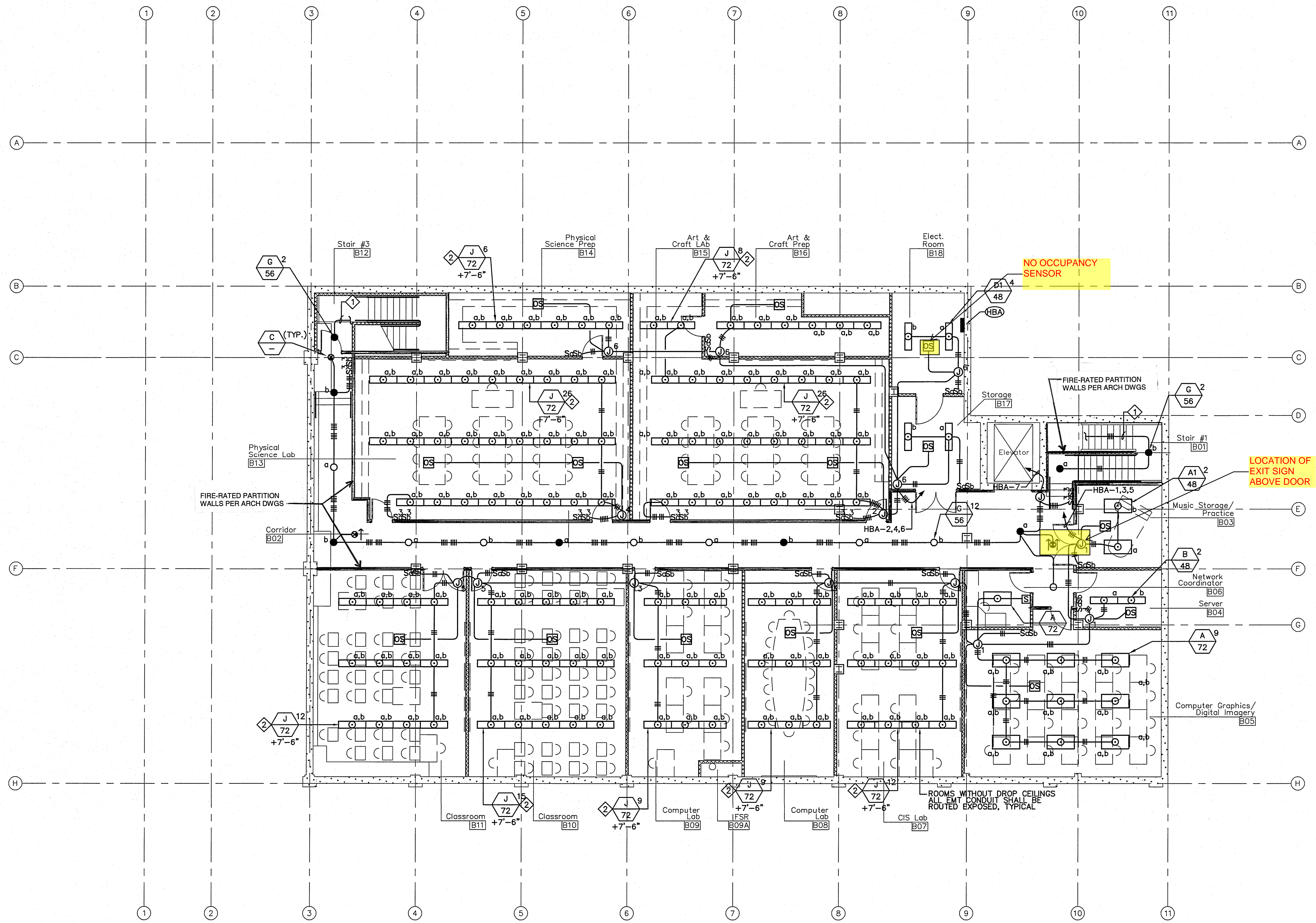
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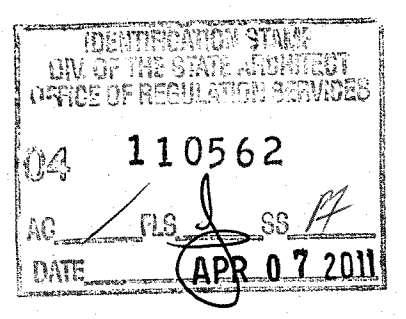
**CLAYPOOL BUILDING RECONSTRUCTION**  
 PALO VERDE COLLEGE, NEEDLES CENTER  
 PALO VERDE COMMUNITY COLLEGE DISTRICT  
 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363  
**BASEMENT LIGHTING PLAN**

DATE	07-06-07
JOB NO.	2007-SH95-00
DRAWN	BL
CHECKED	RW/JR

SHEET NO.  
**E2.1**  
 SHEET OF



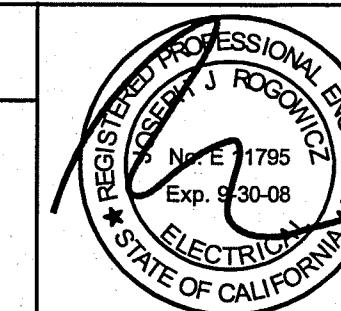
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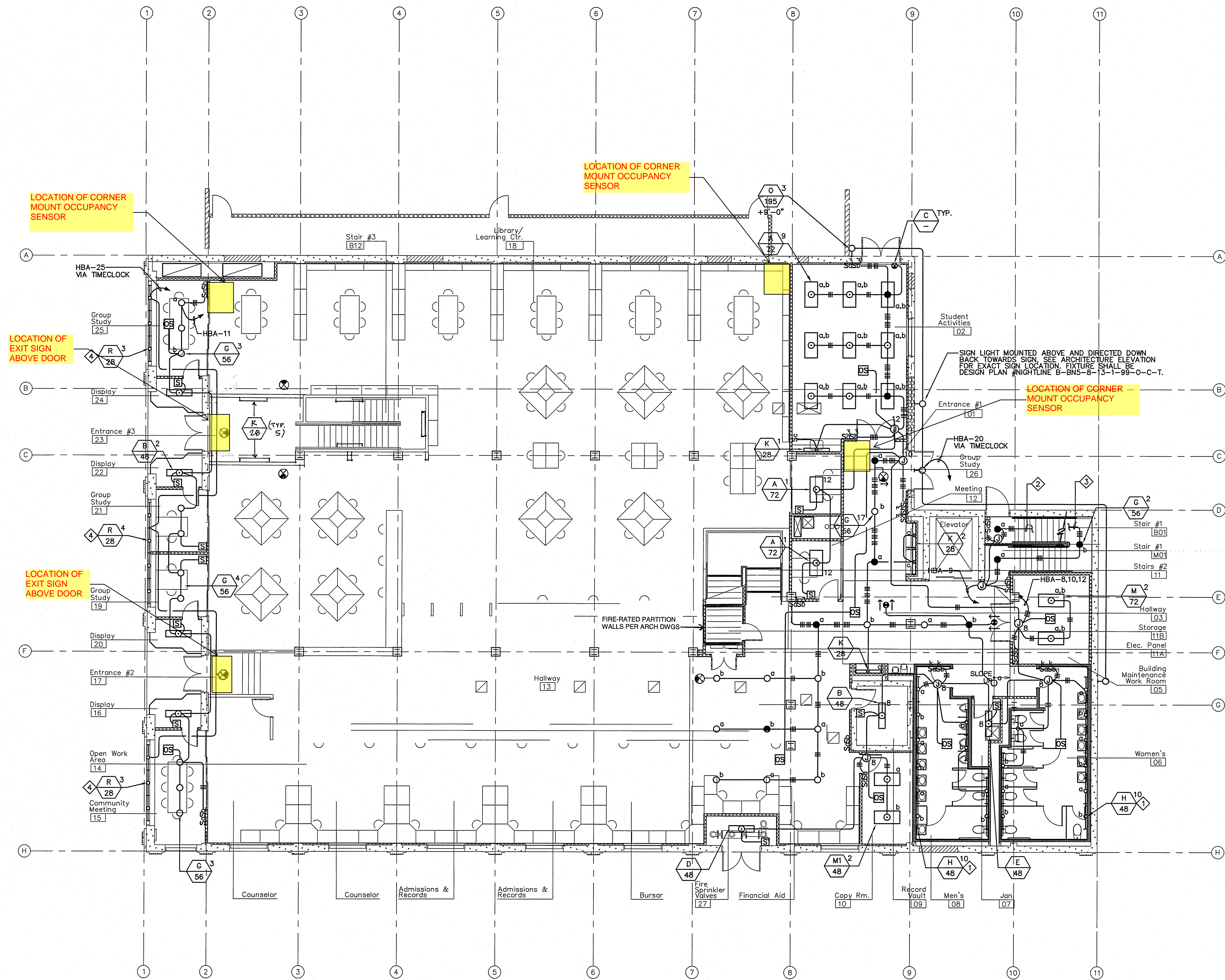
**BASEMENT LIGHTING PLAN**

SHEET NOTES

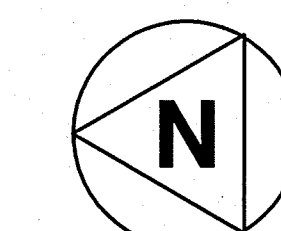
- ◊ REFER TO 3 AS.4 FOR MOUNTING.
- ◊ REFER TO SHEET E2.1 FOR CONTINUATION.
- ◊ REFER TO SHEET E2.3 FOR CONTINUATION.
- ◊ MOUNT FIXTURES IN COVE TO ILLUMINATE LETTERING. SEE ARCHITECTURAL PLANS FOR EXACT LOCATIONS.



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FIRST FLOOR LIGHTING PLAN

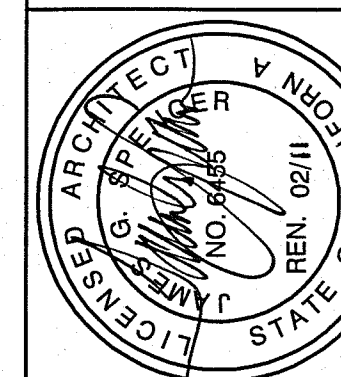


SCALE 1/8"=1'-0" 1

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 APR 07 2011

NO.	DATE	REVISIONS

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CLAYPOOL BUILDING RECONSTRUCTION  
 PALO VERDE COLLEGE, NEEDLES CENTER  
 PALO VERDE COMMUNITY COLLEGE DISTRICT  
 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363  
**FIRST FLOOR LIGHTING PLAN**

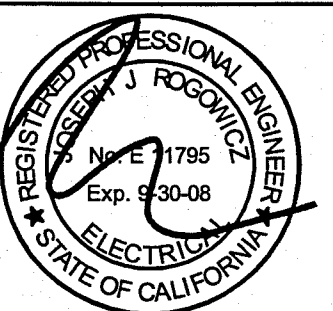
DATE	07-06-07
JOB NO.	2007-SHBC-00
DESIGNER	BRW
CHECKED	SL
DATE	

SHEET NO. **E2.2**



SHEET NOTES

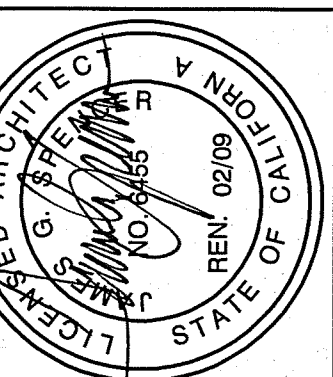
- ◇ PROVIDE METAL BARRIERS FOR MULTI GANGED SWITCH.
- ◇ REFER TO SHEET E2.3 FOR CONTINUATION.



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NO.	DATE

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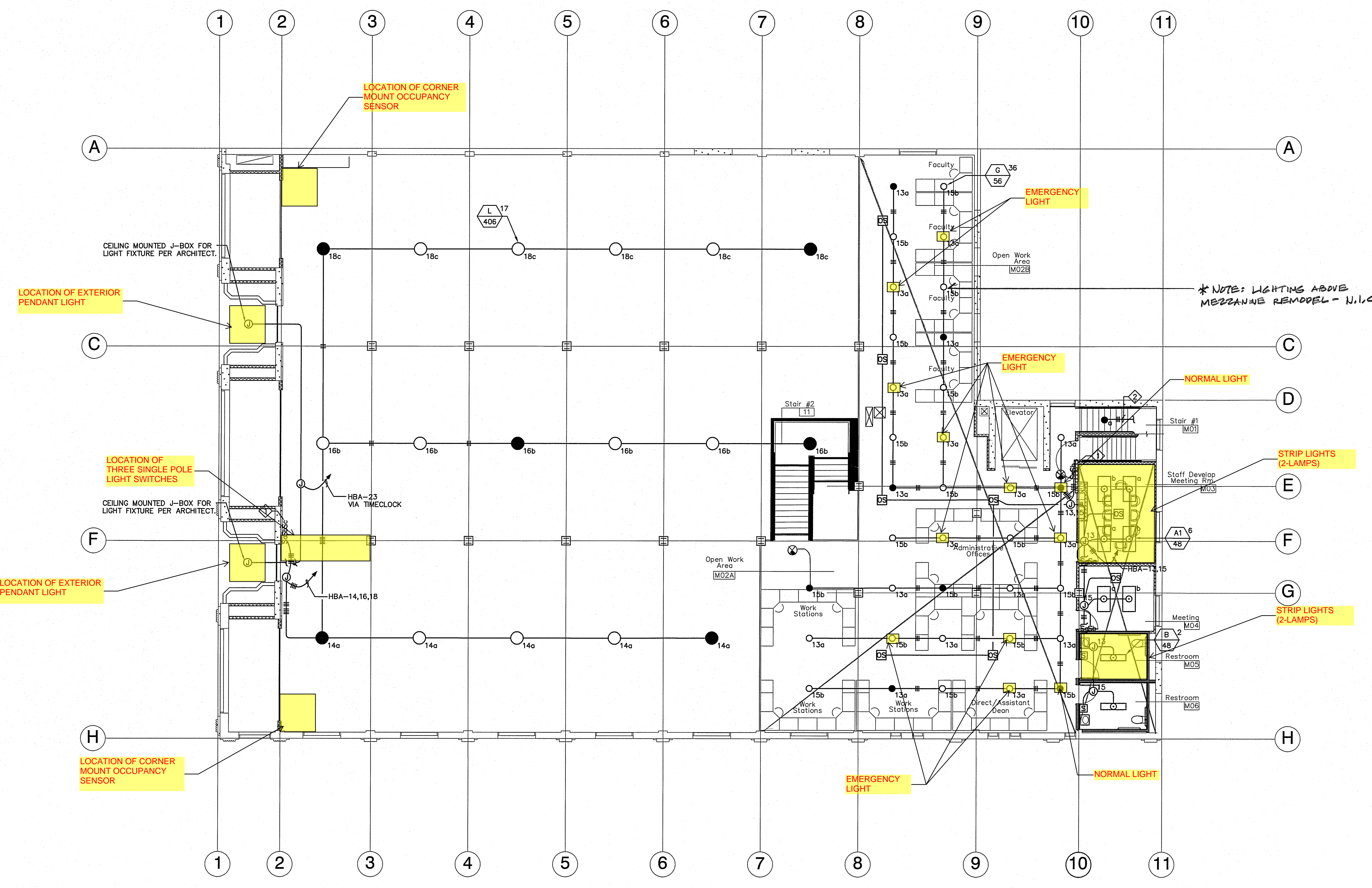


**CLAYPOOL BUILDING RECONSTRUCTION**  
 PALO VERDE COLLEGE, NEEDLES CENTER  
 PALO VERDE COMMUNITY COLLEGE DISTRICT  
 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363

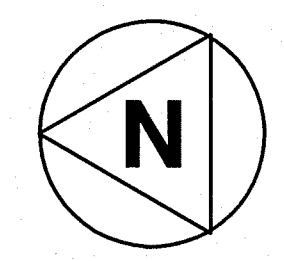
DATE	07-06-07
JOB NO.	2007-SHBC-03
DRAWN	SL
CHECKED	KW/AR

SHEET NO.	110562
<b>E2.3</b>	
SHEET OF	

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 DIV. OF THE STATE ARCHITECT  
 OFFICE OF REGULATION & FEES  
 110562  
 APR 07 2011



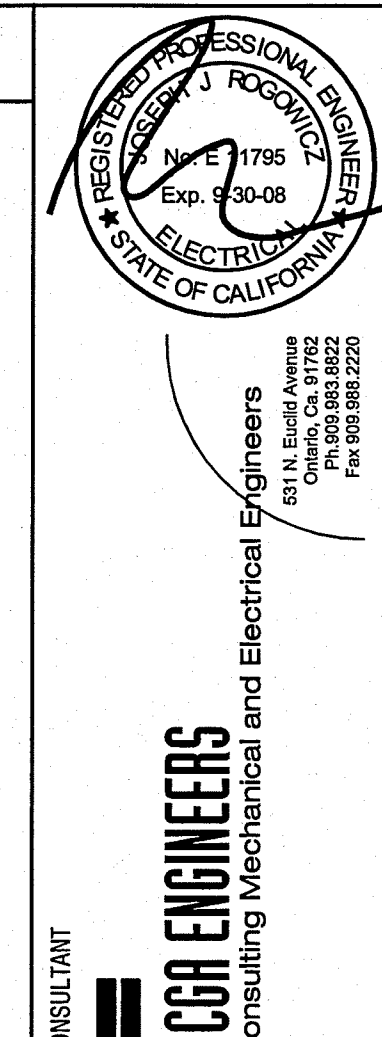
MEZZANINE LIGHTING PLAN



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

SHEET NOTES

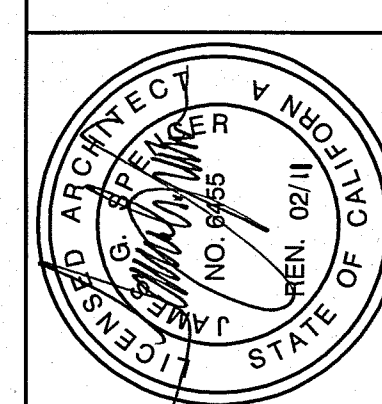
- 1 MAKE CONNECTION TO ZONE DAMPERS PER THE MANUFACTURERS REQUIREMENT. PROVIDE 3/4" x 3/12 TO EACH ZONE DAMPER. CONTRACTOR TO VERIFY EXACT QUANTITIES AND LOCATIONS WITH THE MECHANICAL DRAWINGS PRIOR TO CONSTRUCTION.
- 2 FOR CEILING MOUNTED PROJECTOR. REFER TO (E4.1) FOR ADDITIONAL REQUIREMENTS.
- 3 MAKE CONNECTION TO HVAC CONTROL MODULES PER THE MECHANICAL DRAWINGS. VERIFY EXACT LOCATIONS AND QUANTITIES PRIOR TO CONSTRUCTION.
- 4 PROVIDE AND INSTALL KENALL# SH8-48-2-32-EB-1-120V. WEATHERPROOF FLUORESCENT FIXTURE. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ELEVATOR INSTALLATION SHOP DRAWINGS PRIOR TO ROUGH-IN.
- 5 ROUTE EMT CONDUIT EXPOSED ALONG UNDERSIDE OF STRUCTURE AND TRANSITION TO BELOW RAISED FLOOR VIA STUDWALL.



NO.	DATE	REVISIONS

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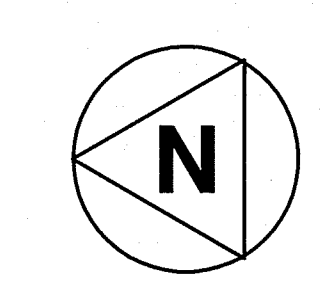
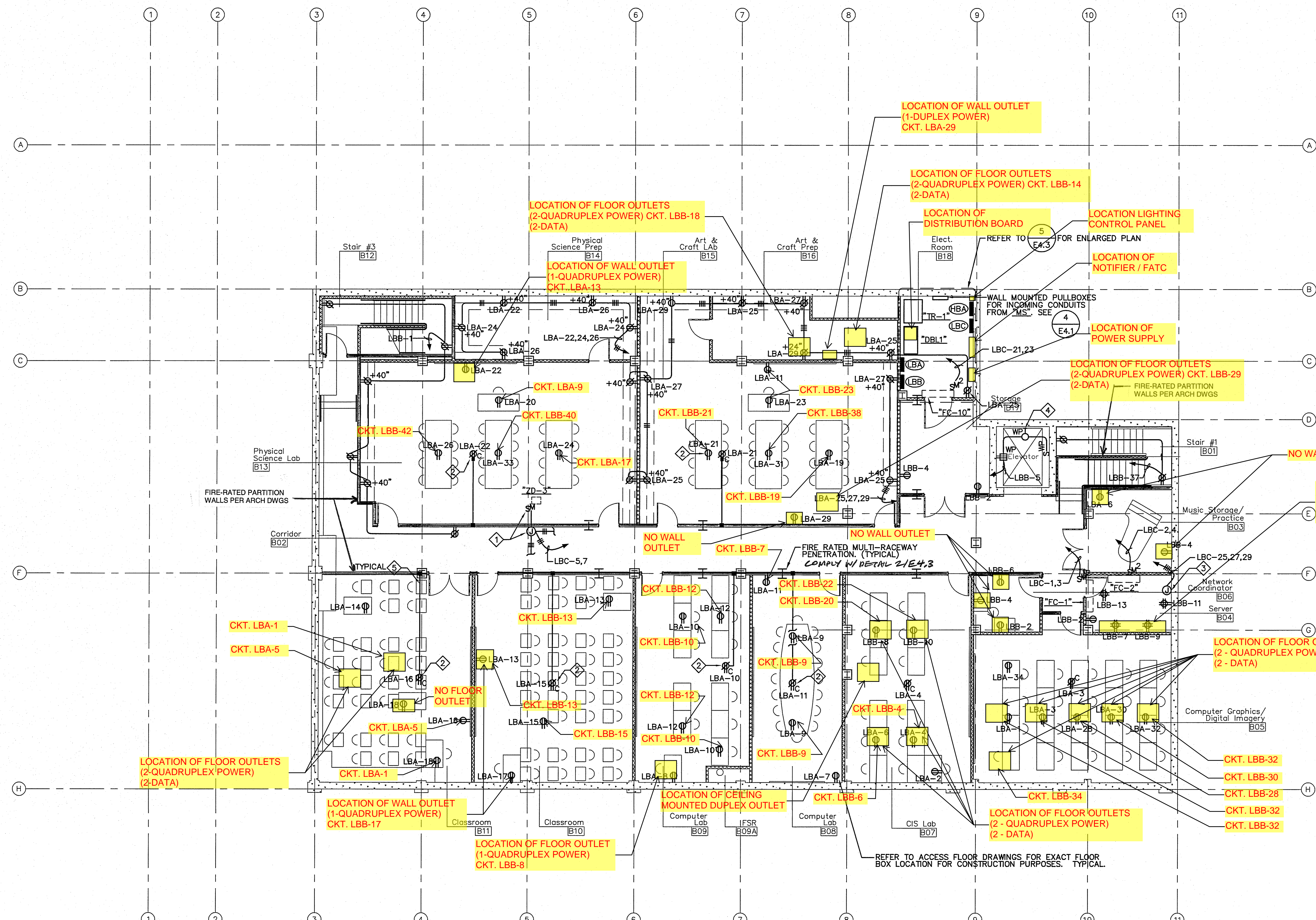
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 Stephen H. Hoskins, AIA, Architect C-7723



**CLAYPOOL BUILDING RECONSTRUCTION**  
 PALO VERDE COLLEGE, NEEDLES CENTER  
 PALO VERDE COMMUNITY COLLEGE DISTRICT  
 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363

**BASEMENT POWER PLAN**

DATE	07-08-07	SHEET NO.	E2.4
DRAWN	2007-SH85-00	SCALE	1/8"=1'-0"
CHECKED		DATE	APR 07 2011



BASEMENT POWER PLAN

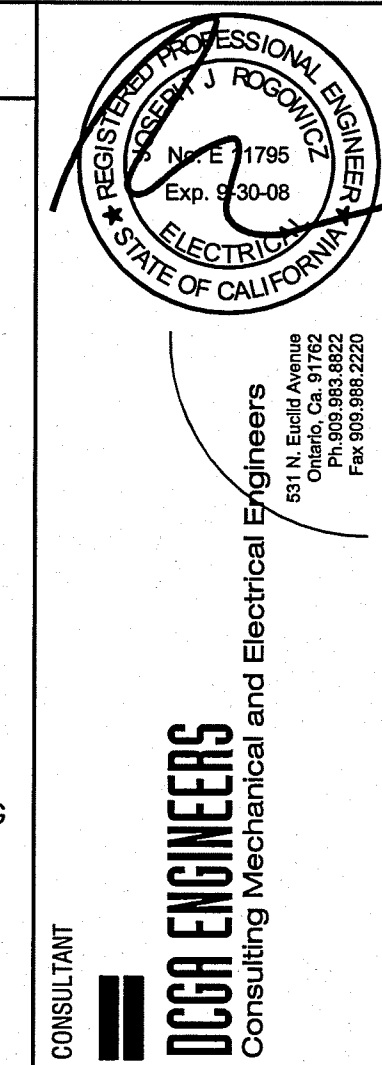
SCALE 1/8"=1'-0" 1

REFER TO SHEET AF1.1 THRU AF1.3 FOR EXACT LOCATION OF ALL FLOOR BOXES FOR COORDINATION PURPOSES. THE ELECTRICAL CONTRACTOR SHALL TERMINATE ALL WIRING AT BRANCH CIRCUIT PANELS AND RELATED CIRCUIT BREAKER FOR THE ENTIRE PROJECT.

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 APR 07 2011

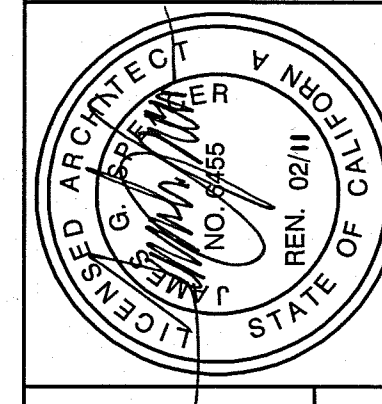
SHEET NOTES

- ◇ MAKE CONNECTION TO ZONE DAMPERS PER THE MANUFACTURERS REQUIREMENT. PROVIDE 3/4" C. 3#12 TO EACH ZONE DAMPER. CONTRACTOR TO VERIFY EXACT QUANTITIES AND LOCATIONS WITH THE MECHANICAL DRAWINGS PRIOR TO CONSTRUCTION.
- ◇ ROUTE HOMERUN IN BASEMENT CEILING SPACE AND CORE DRILL INTO THE FIRST FLOOR RAISED FLOOR SPACE.
- ◇ ROUTE CONDUIT THROUGH RAISED FLOOR SPACE TO PANELS INDICATED. COORDINATE WITH MECHANICAL FOR PASSING OVER DUCTWORK.
- ◇ PROVIDE 30AMP FUSED DISCONNECT SWITCH FOR ELECTRICAL WATER HEATER WITH FUSES SIZED PER THE MANUFACTURERS NAMEPLATE RATING. VERIFY EXACT LOCATION WITH PLUMBING PRIOR TO CONSTRUCTION.
- ◇ MAKE CONNECTION TO ELECTRIC DRINKING FOUNTAIN PER THE MANUFACTURERS REQUIREMENTS. VERIFY EXACT LOCATION WITH PLUMBING PRIOR TO CONSTRUCTION.



NO.	DATE	REVISIONS

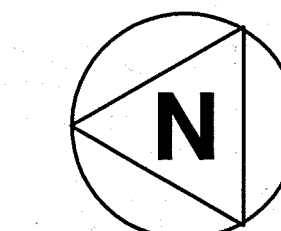
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**CLAYPOOL BUILDING RECONSTRUCTION**  
 PALO VERDE COLLEGE, NEEDLES CENTER  
 PALO VERDE COMMUNITY COLLEGE DISTRICT  
 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363  
**FIRST FLOOR POWER PLAN**

DATE	07-06-07	DRW	SL	CHKD	KW/UR
JOB NO.	2007-SH95-00	DATE			
SHEET NO.					

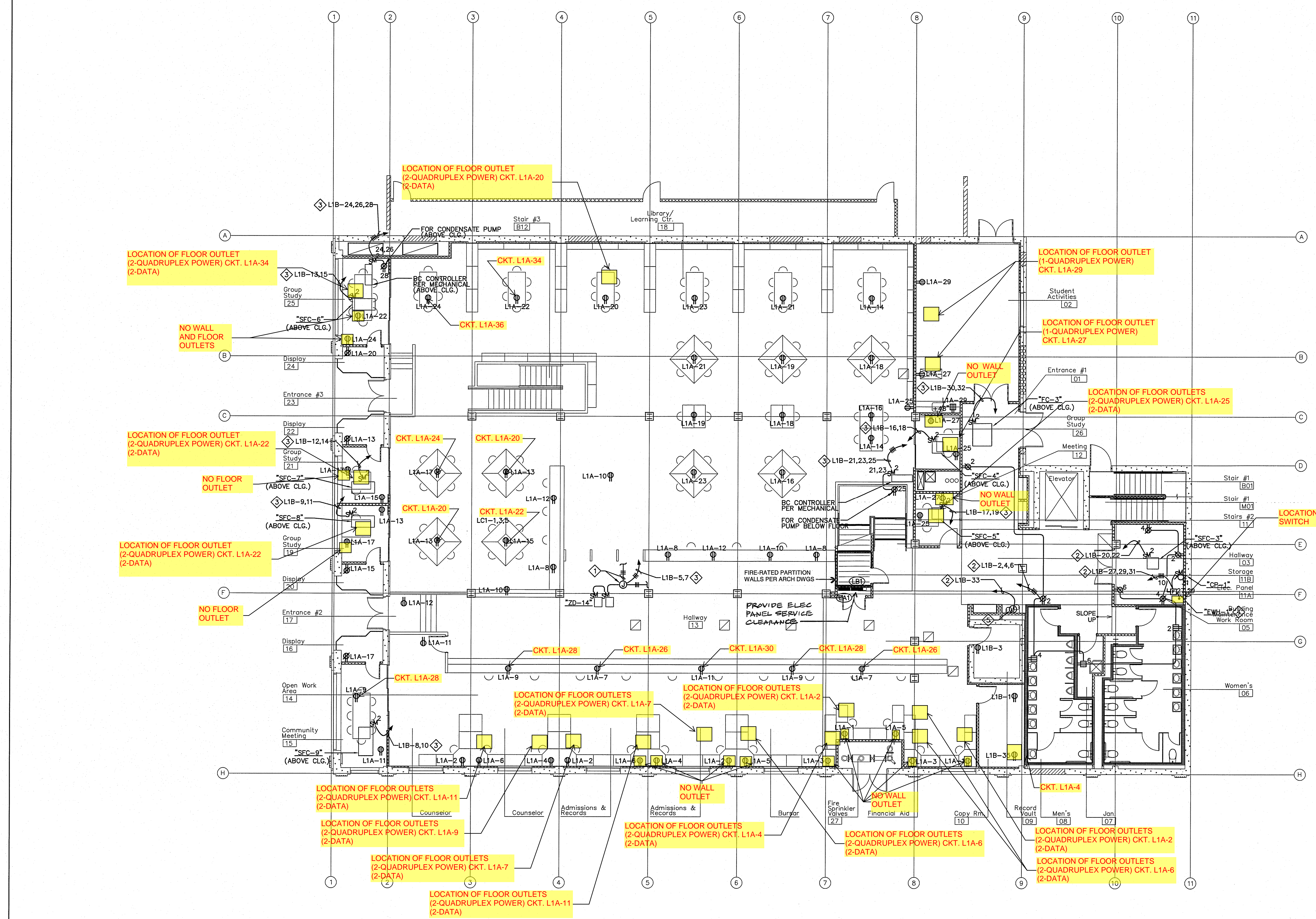
REFER TO SHEET AF1.1 THRU AF1.3 FOR EXACT LOCATION OF ALL FLOOR BOXES FOR COORDINATION PURPOSES. THE ELECTRICAL CONTRACTOR SHALL TERMINATE ALL WIRING AT BRANCH CIRCUIT PANELS AND RELATED CIRCUIT BREAKER FOR THE ENTIRE PROJECT.



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 APR 07 2011

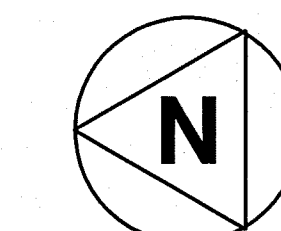
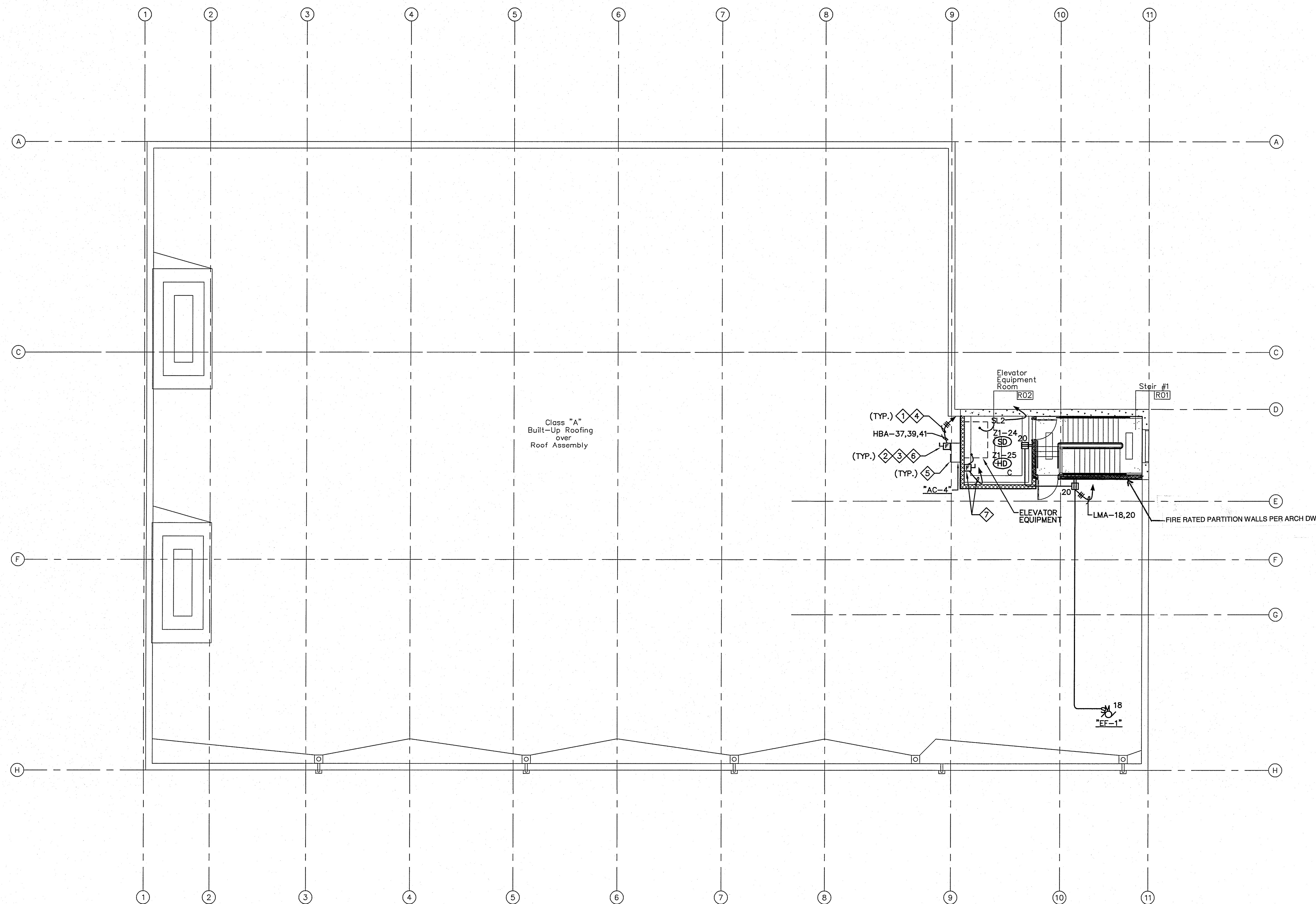
FIRST FLOOR POWER PLAN

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



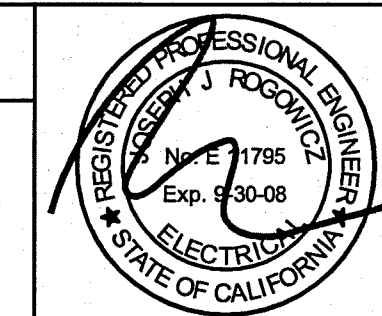
SHEET NOTES

- ◇ NO CONDUIT SHALL BE RUN EXPOSED ON ROOF. RUN ALL CONDUIT IN CEILING SPACE AND STUB THROUGH ROOF AT CONNECTION POINT. VERIFY ROUGH-IN LOCATIONS WITH EQUIPMENT MANUFACTURER. (TYPICAL.)
- ◇ ALL EQUIPMENT ON ROOF SHALL BE WEATHERPROOF. ALL BOXES, CONDUIT, SWITCHES, RECEPTACLES, ETC. SHALL BE WEATHERPROOF. SEAL ALL OPENINGS.
- ◇ MOUNT UNIT DISCONNECT SWITCH ON A/C UNIT TO AVOID ACCESS PANELS & MAINTAIN CODE REQUIRED CLEARANCES.
- ◇ ROUTE 'SEAL-TITE' CONDUIT FEEDERS WITHIN HVAC UNIT THROUGH ROOF CURB TO RELATED DISCONNECT SWITCH AND/OR RECEPTACLE, ETC. TO MINIMIZE ROOF PENETRATIONS.
- ◇ ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT EQUIPMENT LOCATION AND ELECTRICAL CONNECTION POINTS TO ALL EQUIPMENT PRIOR TO ROUGH-IN, TYPICAL.
- ◇ 30 AMP WEATHERPROOF FUSED DISCONNECT SWITCH WITH FUSES SIZED PER EQUIPMENT NAMEPLATE REQUIREMENTS, U.N.O. TYPICAL.
- ◇ REFER TO THE SINGLE LINE DIAGRAM FOR DISCONNECT AND FEEDER SIZE.



ELECTRICAL ROOF PLAN

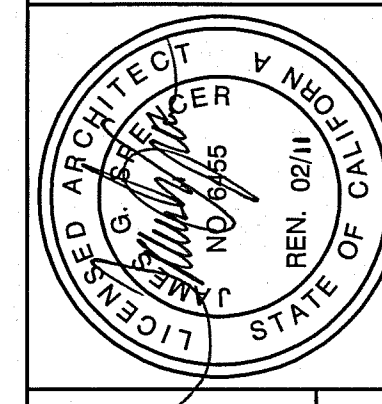
SCALE 1/8"=1'-0" 1



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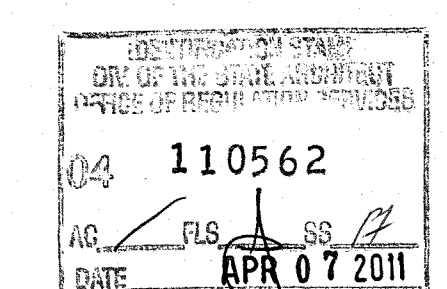
NO.	DATE	REVISIONS

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**CLAYPOOL BUILDING RECONSTRUCTION**  
**PALO VERDE COLLEGE, NEEDLES CENTER**  
 PALO VERDE COMMUNITY COLLEGE DISTRICT  
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**ELECTRICAL ROOF PLAN**

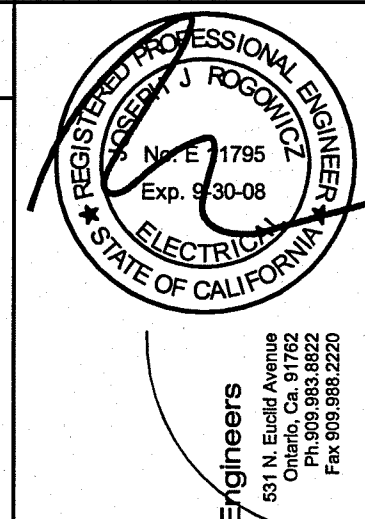
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JOB NO.	2007-SH95-00
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CHECKED	SL
SHEET NO.	1



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 DATE RPR 07 2011  
**E2.10**

SHEET NOTES

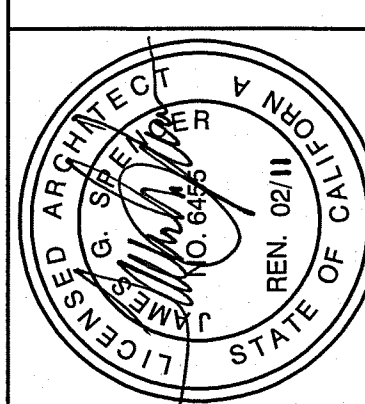
- 1 MOUNT UNIT DISCONNECT SWITCH ON A/C UNIT TO AVOID ACCESS PANELS & MAINTAIN CODE REQUIRED CLEARANCES.
- 2 NOT USED.
- 3 ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT EQUIPMENT LOCATION AND ELECTRICAL CONNECTION POINTS TO ALL EQUIPMENT PRIOR TO ROUGH-IN, TYPICAL.
- 4 60 AMP WEATHERPROOF FUSED DISCONNECT SWITCH WITH FUSES SIZED PER EQUIPMENT NAMEPLATE REQUIREMENTS, U.N.O. TYPICAL.
- 5 REFER TO THE SINGLE LINE DIAGRAM FOR DISCONNECT AND FEEDER SIZE.
- 6 ALL EQUIPMENT IN YARD SHALL BE WEATHERPROOF. ALL BOXES, CONDUIT, SWITCHES, RECEPTACLES, ETC., SHALL BE WEATHERPROOF. SEAL ALL OPENINGS.



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NO.	DATE	REVISIONS

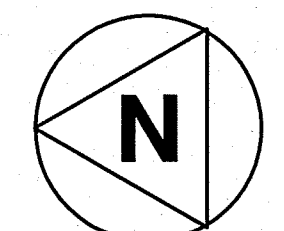
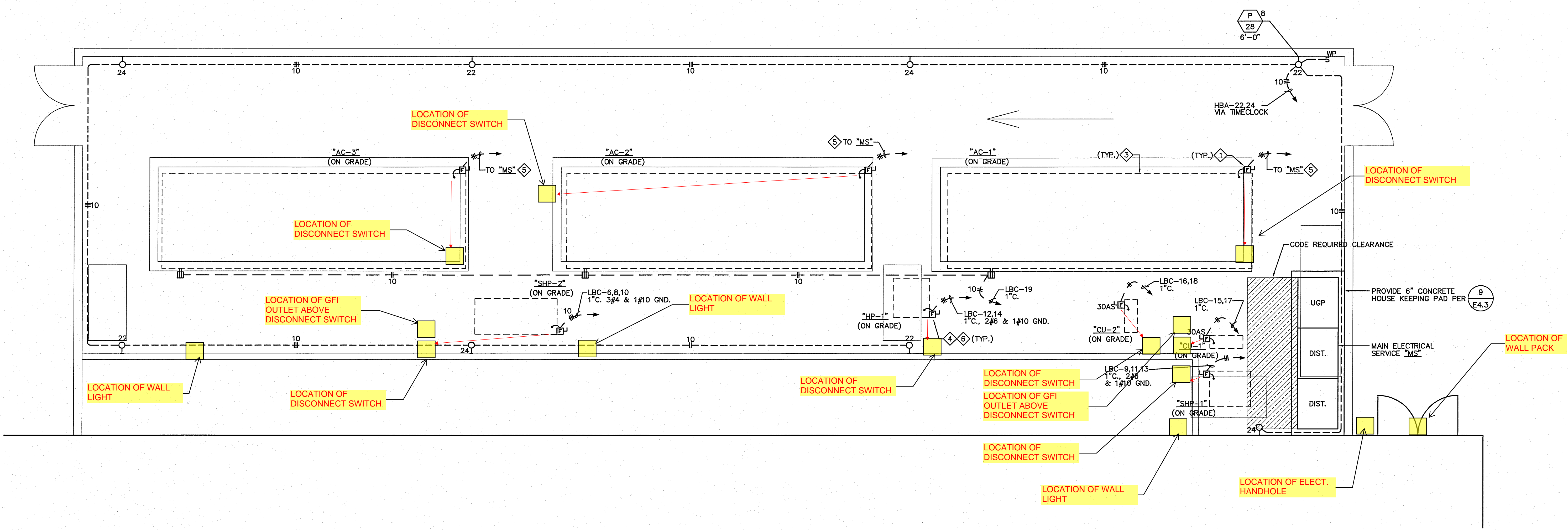
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**CLAYPOOL BUILDING RECONSTRUCTION**  
 PALO VERDE COLLEGE, NEEDLES CENTER  
 PALO VERDE COMMUNITY COLLEGE DISTRICT  
 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92383  
**ENLARGED MECHANICAL YARD**

DATE	07-06-07	BY	IR
JOB NO.	2007-SH95-00	DRAWN	IR
CHECKED			

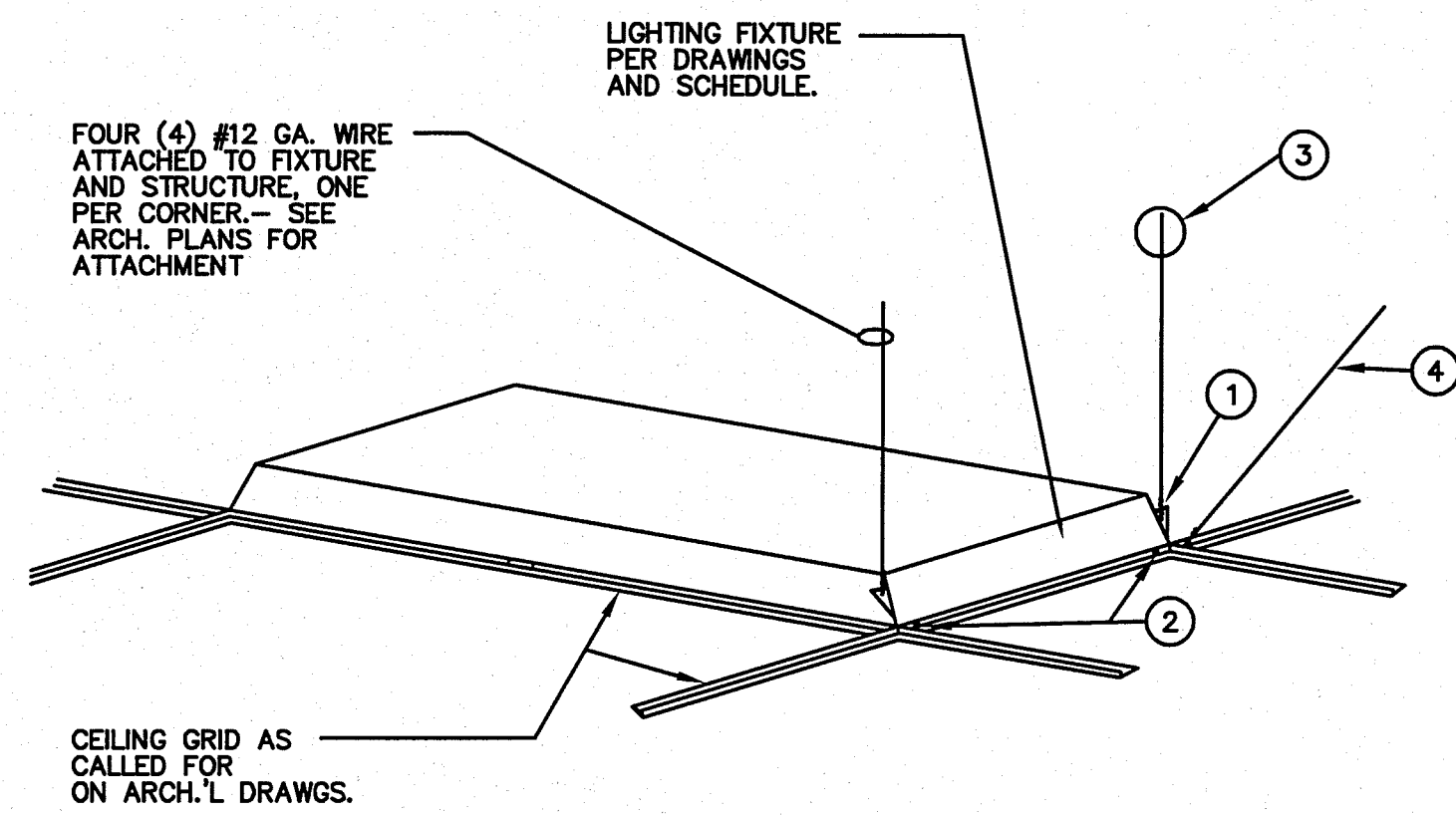
SHEET NO.  
**E2.11**  
 SHEET OF



ENLARGED MECHANICAL YARD

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

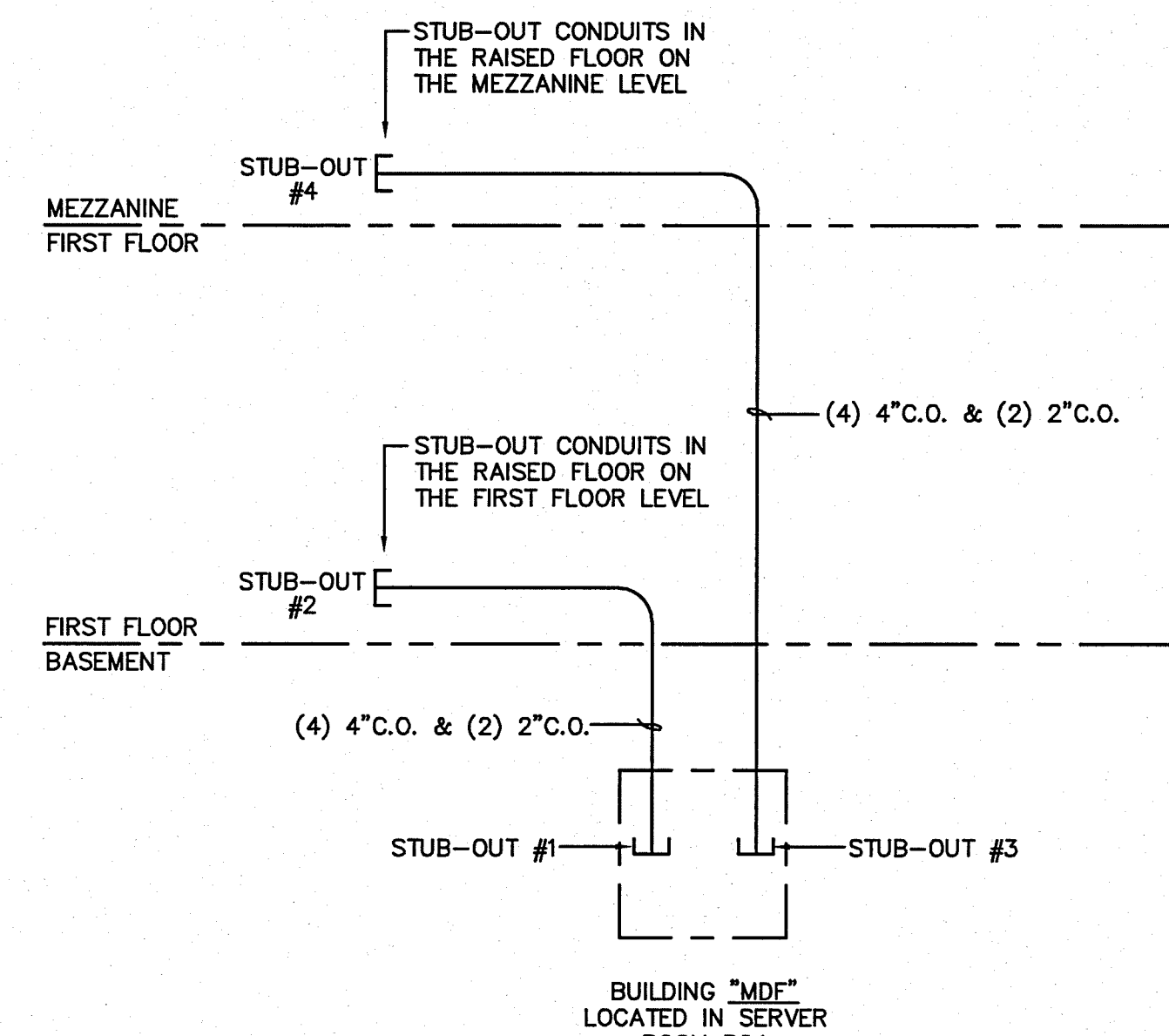
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 APR 07 2011



- NOTES:
- ATTACH WIRE TO FIXTURE (3 TIGHT, TURNS MIN. IN 1 1/2" MAX.)
  - "TEK" SCREW GRID TO FIXTURE @ EACH CORNER.
  - ATTACH HANGER WIRES TO STRUCTURE AS PER STRUCTURAL & ARCHITECTURAL DETAILS.
  - CEILING SYSTEM SPLAY / HANGER WIRES AS OCCUR, SEE ARCHITECTURAL DRAWINGS.

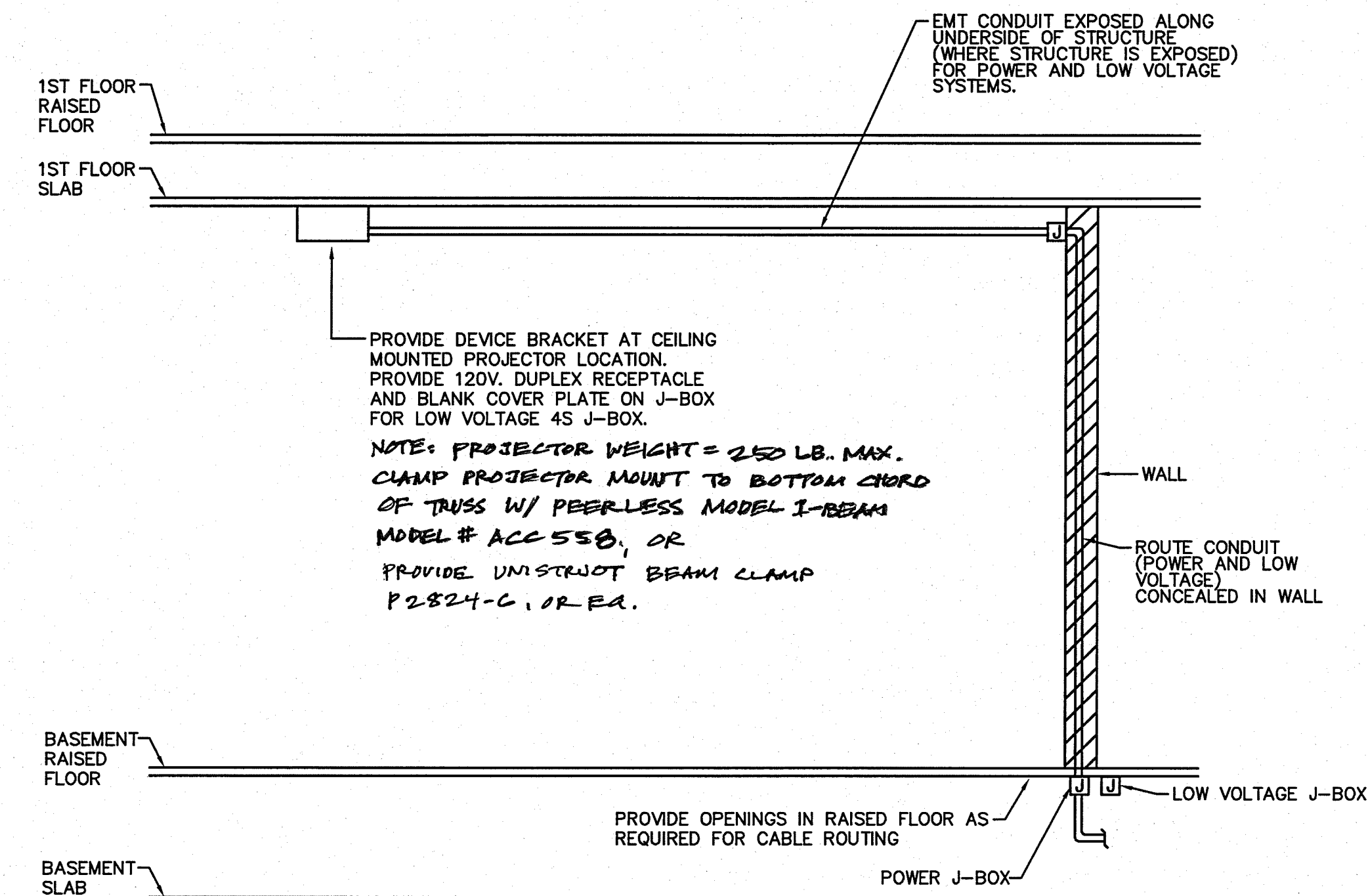
RECESSED FIXTURE IN LAY-IN GRID DETAIL

SCALE  
N.T.S. 1



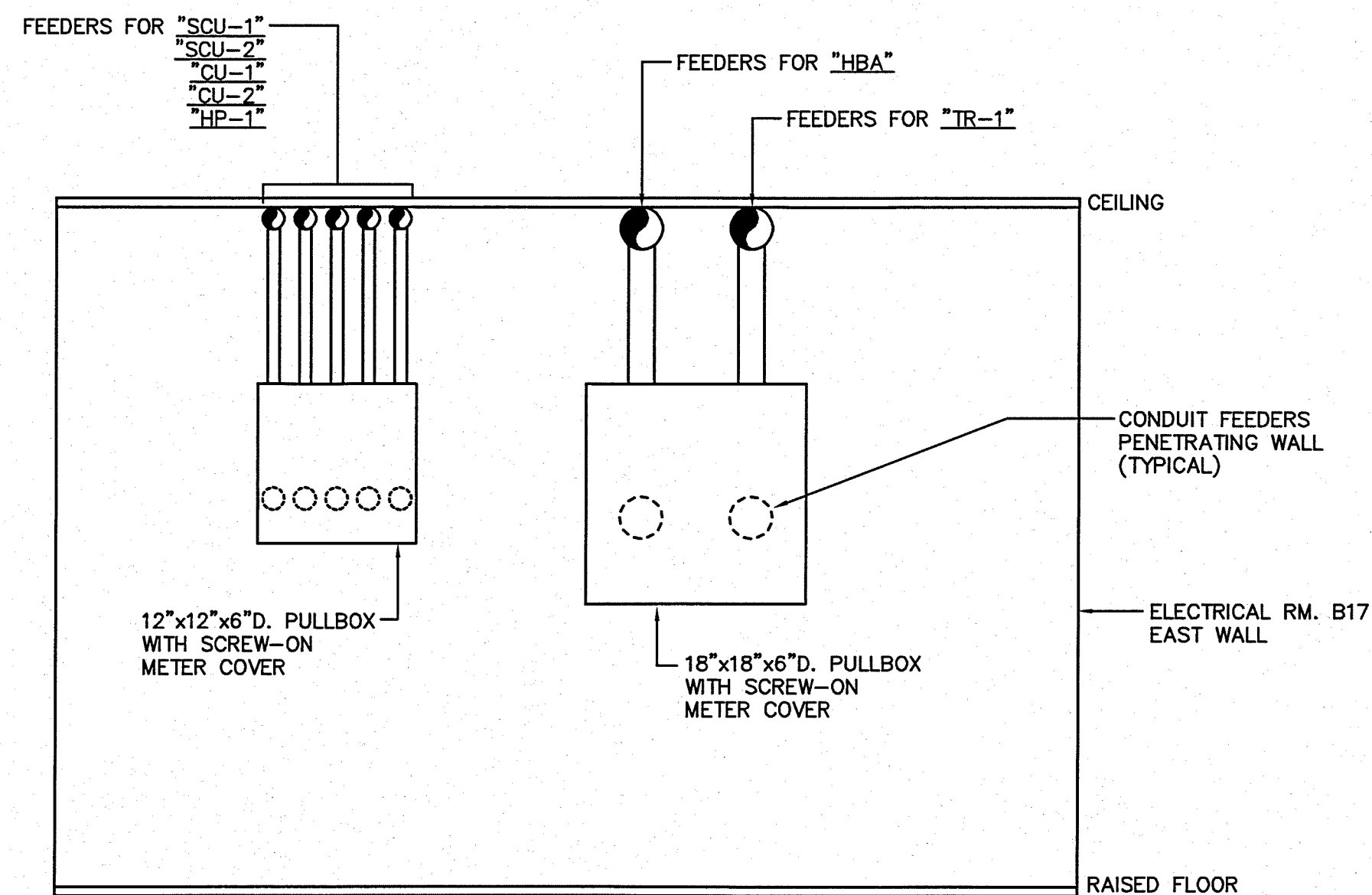
COMMUNICATION RISER BLOCK DIAGRAM

SCALE  
N.T.S. 2



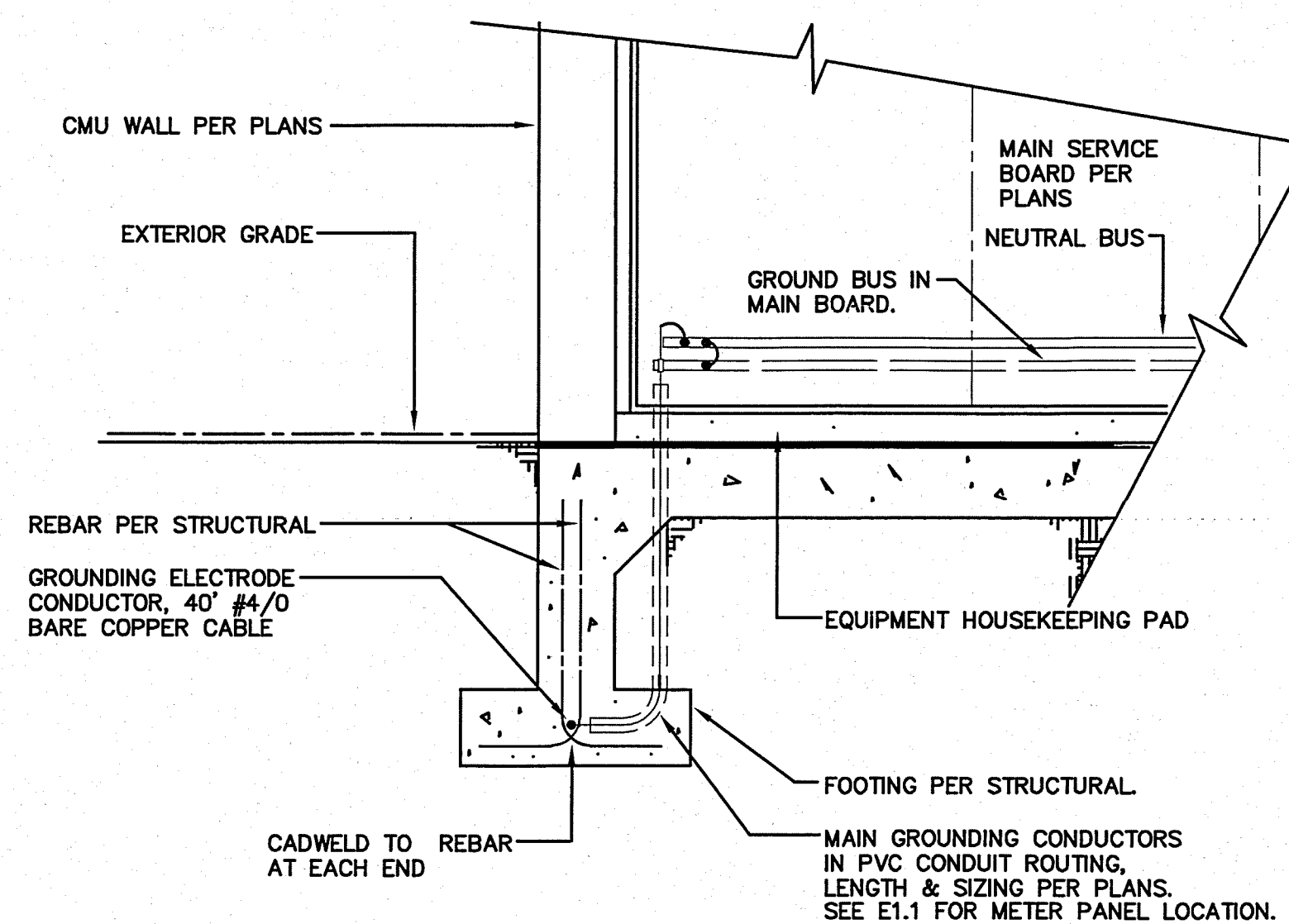
WIREMOLD ROUTING FOR CEILING MOUNTED PROJECTORS DETAIL

SCALE  
N.T.S. 3



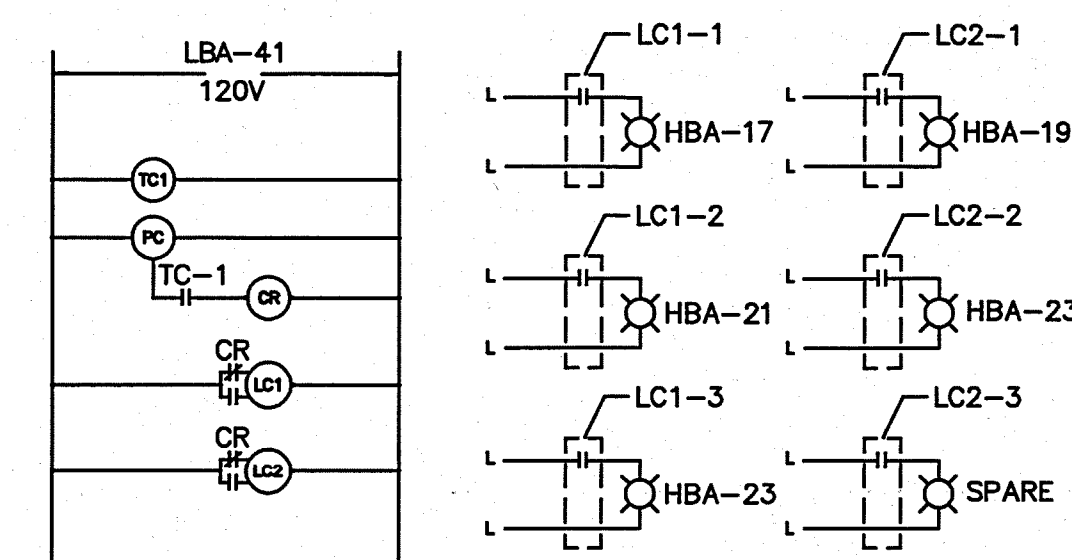
EAST WALL ELECTRICAL ROOM B17 ELEVATION DETAIL

SCALE  
N.T.S. 4



"UFER" GROUNDING DETAIL

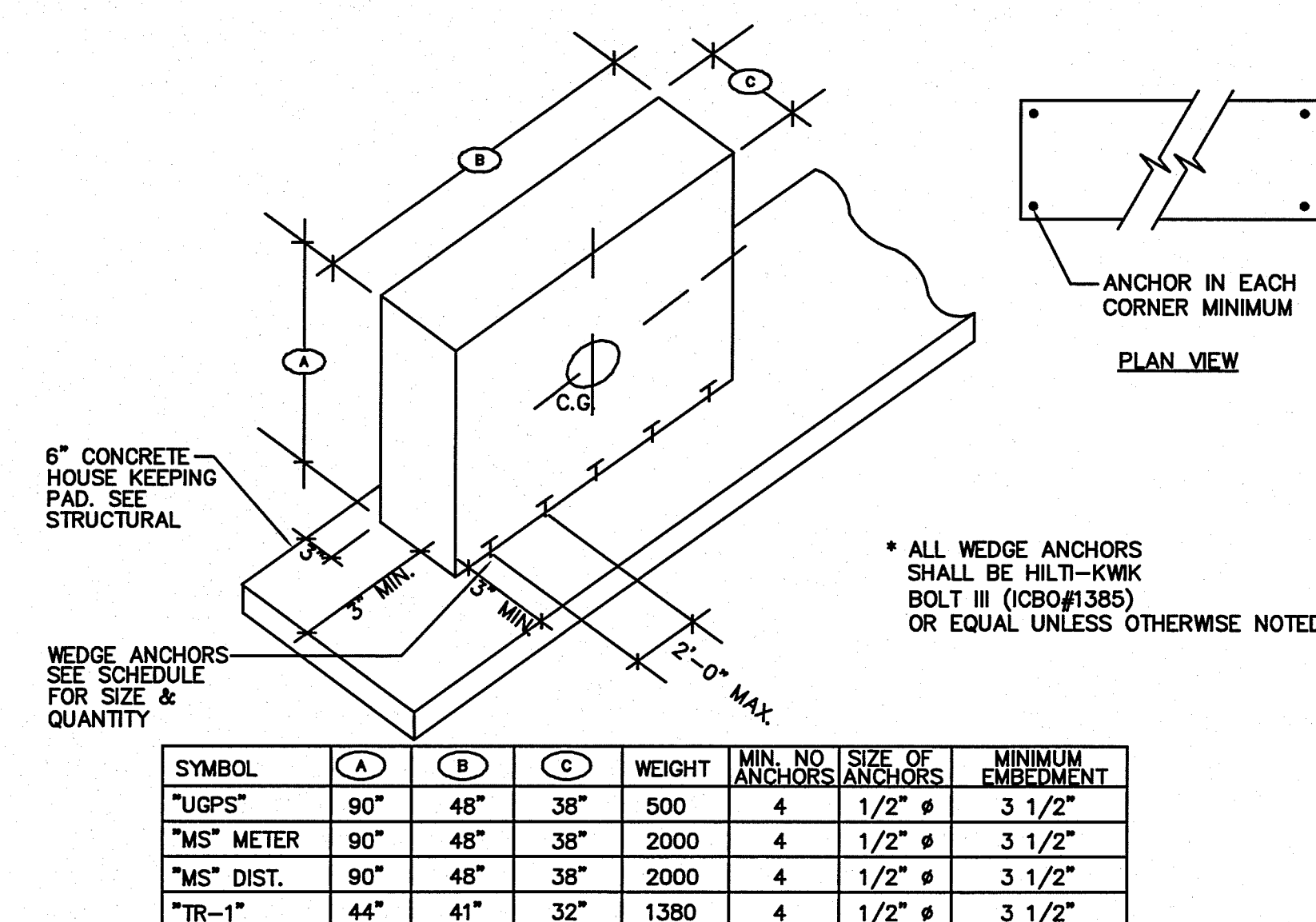
SCALE  
N.T.S. 5



- ALL LIGHTING CONTACTORS (LC1 & LC2) SHALL BE MECHANICALLY HELD, RATED FOR 20A. MIN. NUMBER OF POLES AS SHOWN, SQUARE D CLASS 8903 OR APPROVED EQUAL.
- PHOTO CELL SHALL BE TORK 2000 SERIES OR APPROVED EQUAL, LOCATED ON TOP OF PANEL.
- TIME CLOCK SHALL BE ELECTRONIC SEVEN DAY PARAGON EC71ST SERIES OR APPROVED EQUAL. TIME CLOCK & LIGHTING CONTACTOR SHALL BE LOCATED IN A CONTROL COMPARTMENT ABOVE PANEL.
- CONTROL RELAY (CR) SHALL BE 120V WITH 2 N.O. AND 2 N.C. CONTACTS.

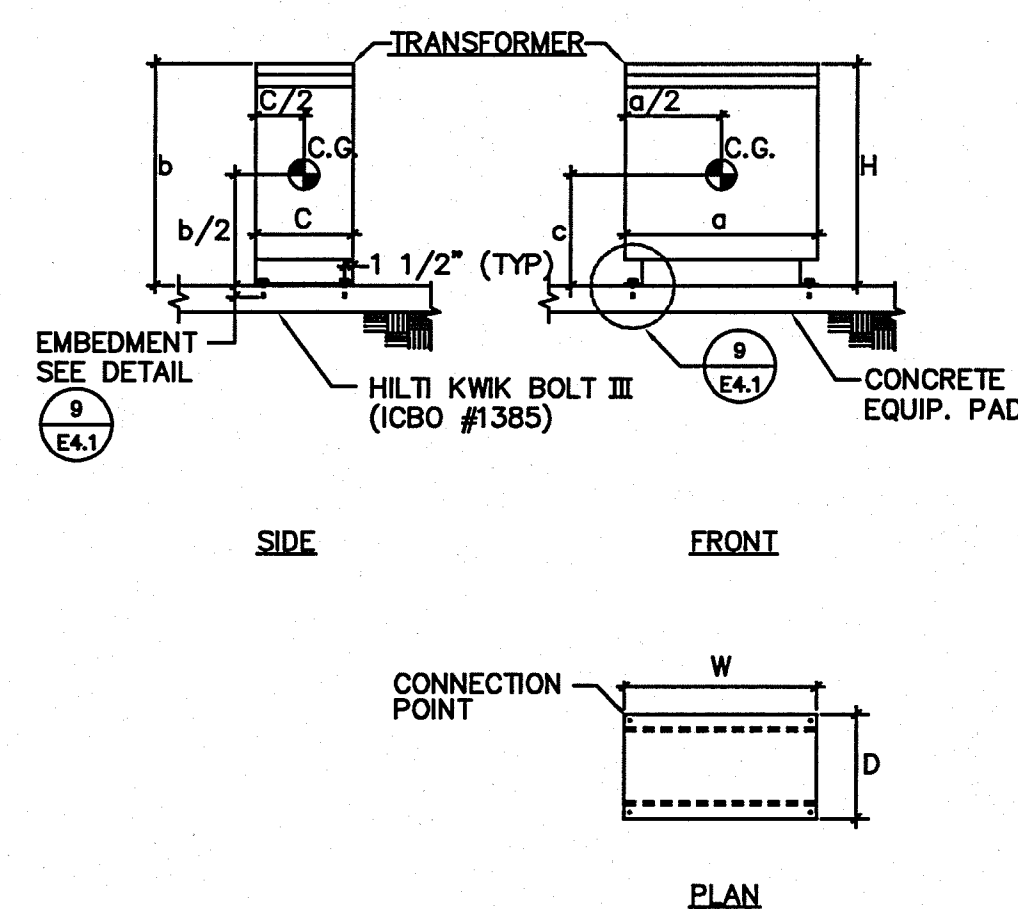
BUILDING EXTERIOR LIGHTING CONTROL DETAIL

SCALE  
N.T.S. 6



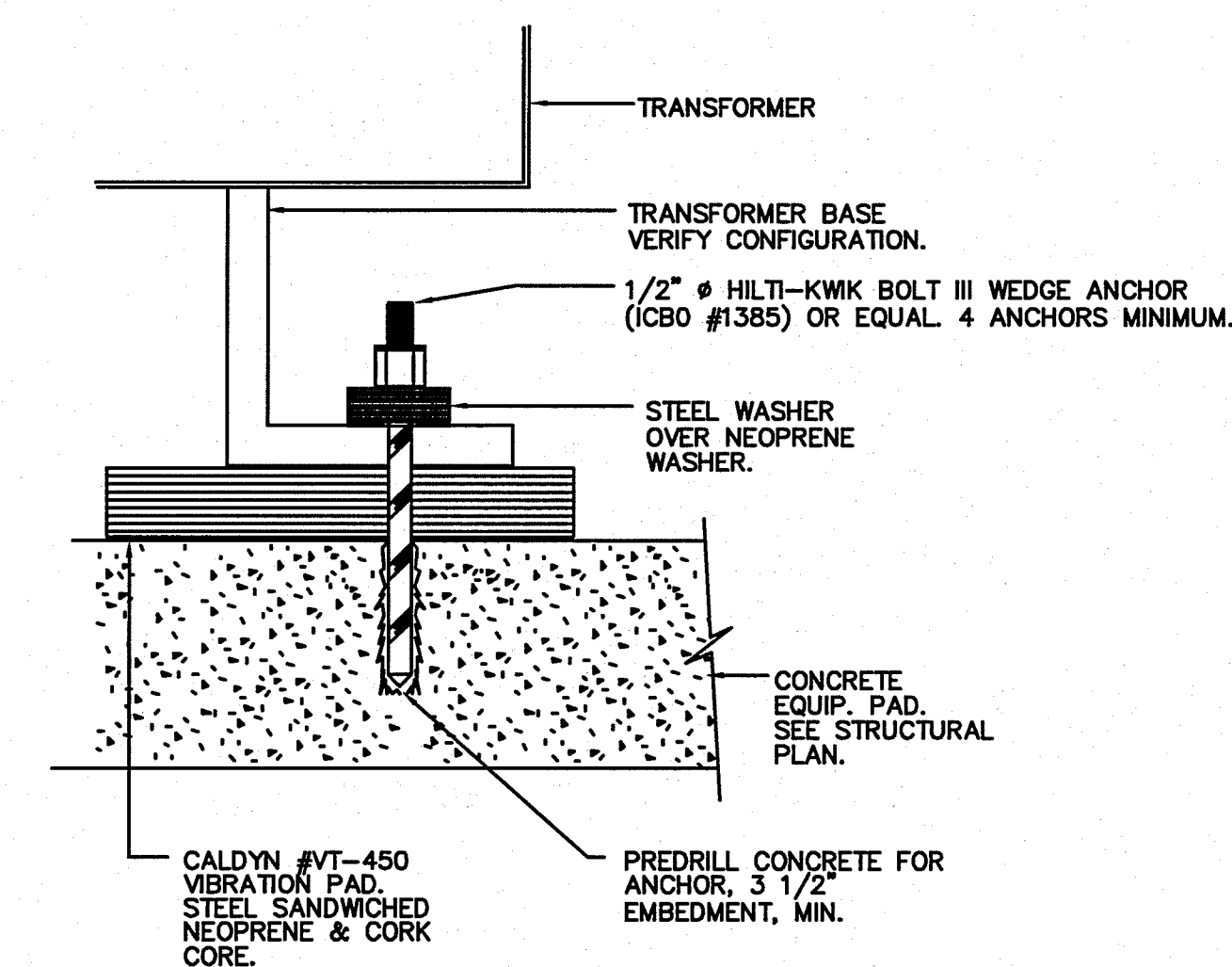
SWITCHBOARD AND TRANSFORMER MOUNTING AND SCHEDULE DETAIL

SCALE  
N.T.S. 7



TRANSFORMER MOUNTING DETAIL

SCALE  
N.T.S. 8



TRANSFORMER MOUNTING DETAIL

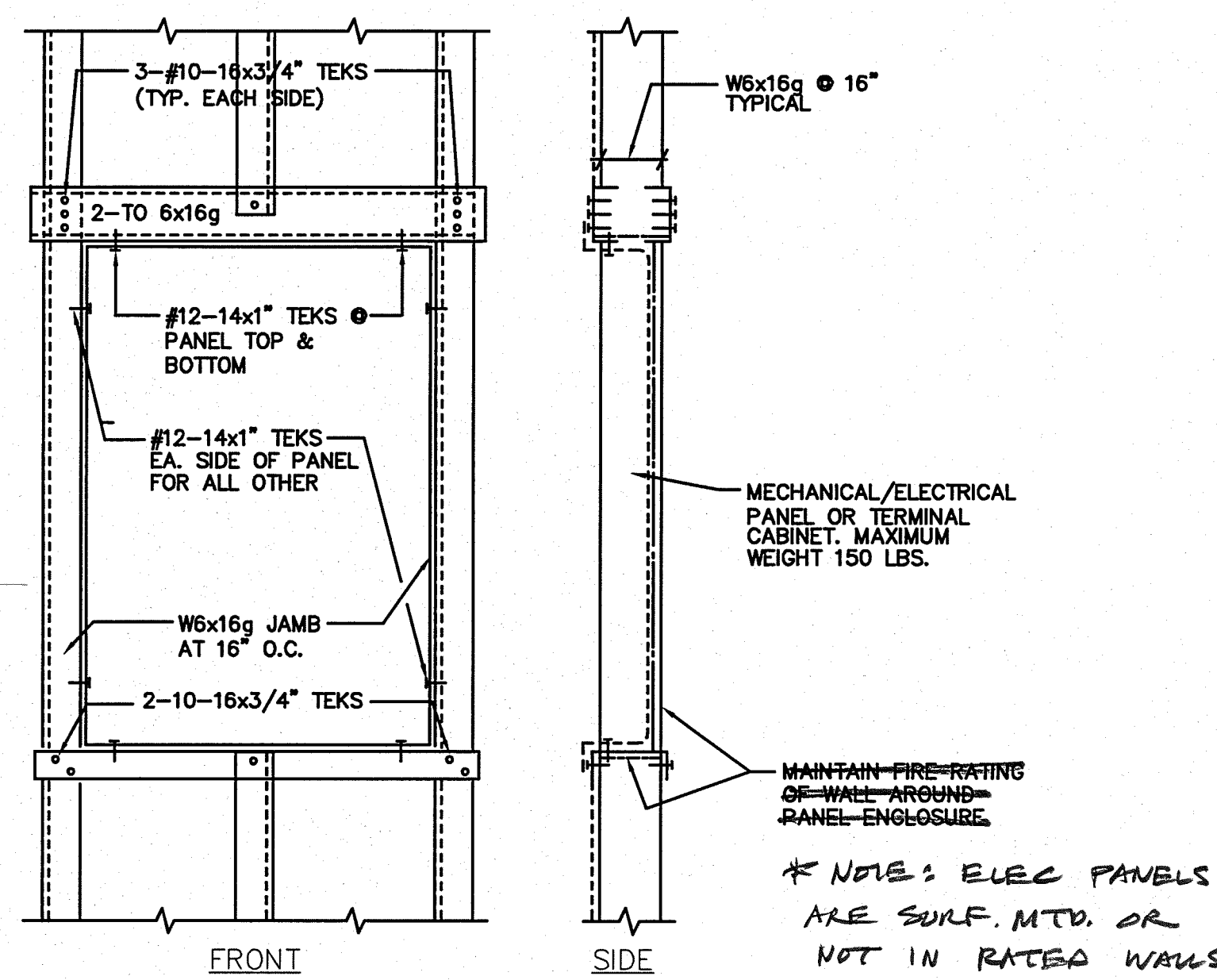
SCALE  
N.T.S. 9

REGISTERED PROFESSIONAL ENGINEER  
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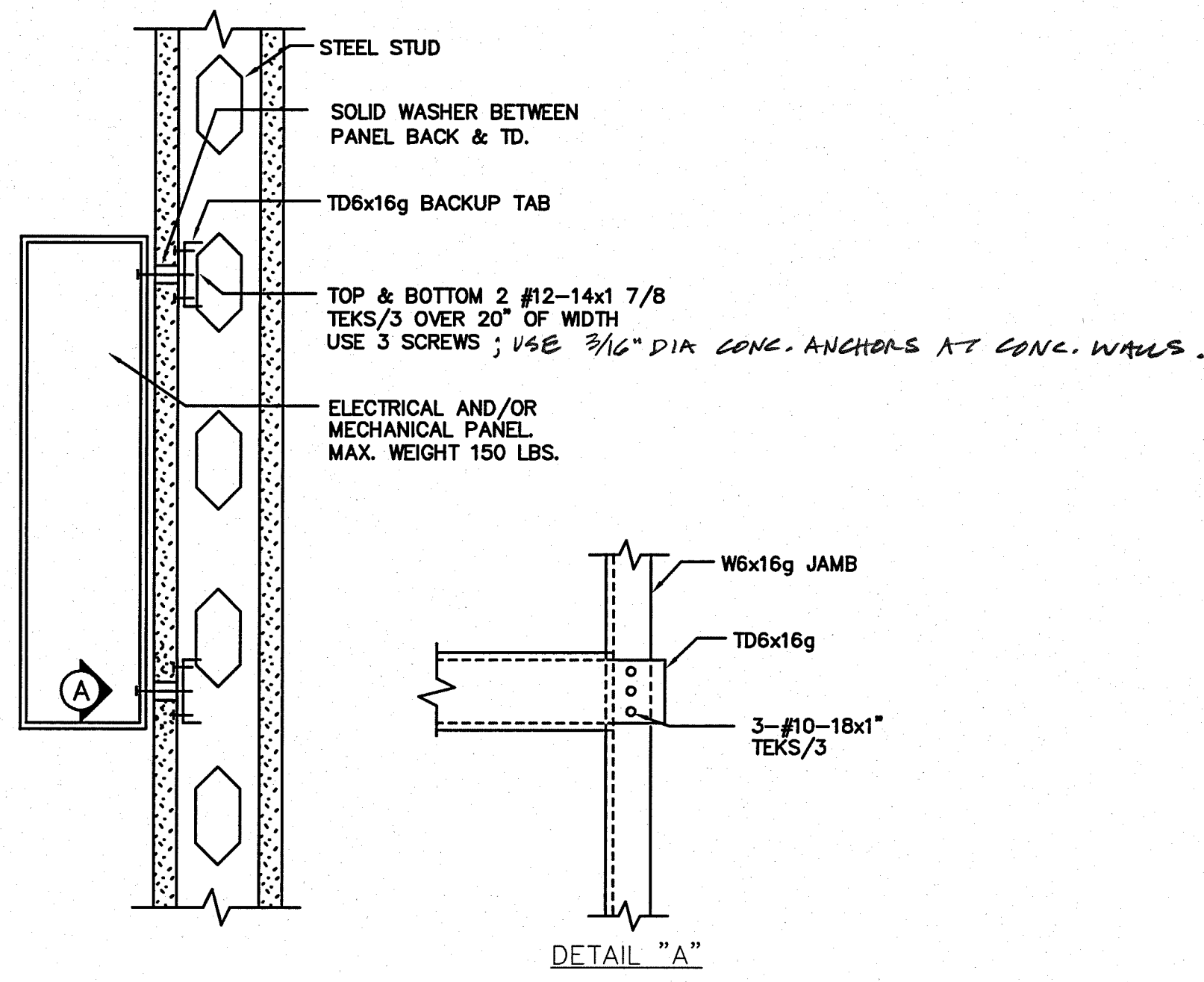
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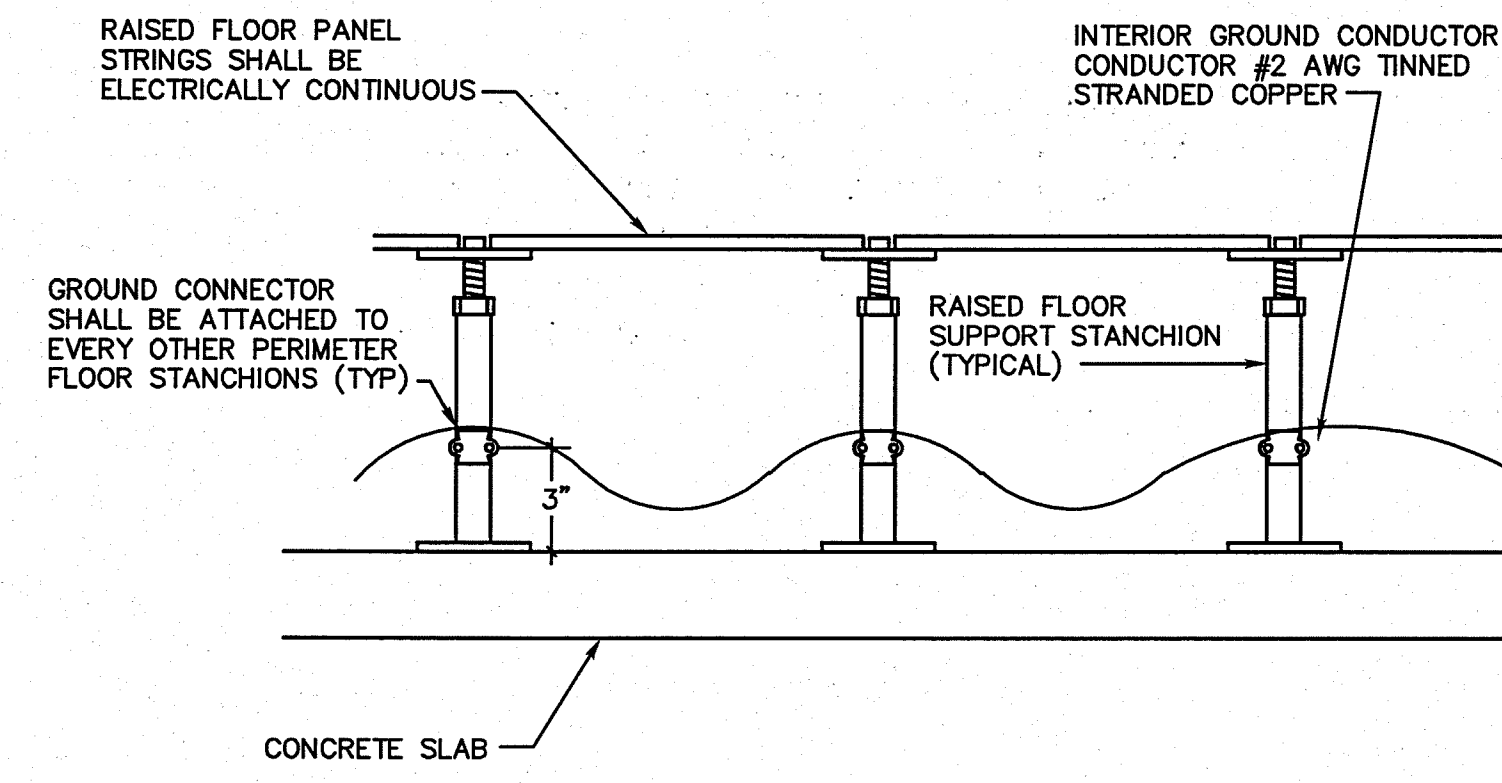
CLAYPOOL BUILDING RECONSTRUCTION  
PALO VERDE COLLEGE, NEEDLES CENTER  
PALO VERDE COMMUNITY COLLEGE DISTRICT  
725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92363  
ELECTRICAL DETAILS  
DATE: 07-06-07  
JOB NO.: 2007-SH85-00  
DRAWN: CV  
CHECKED: KWJ/R  
SHEET NO.:  
E4.1  
DATE: APR 07 2011



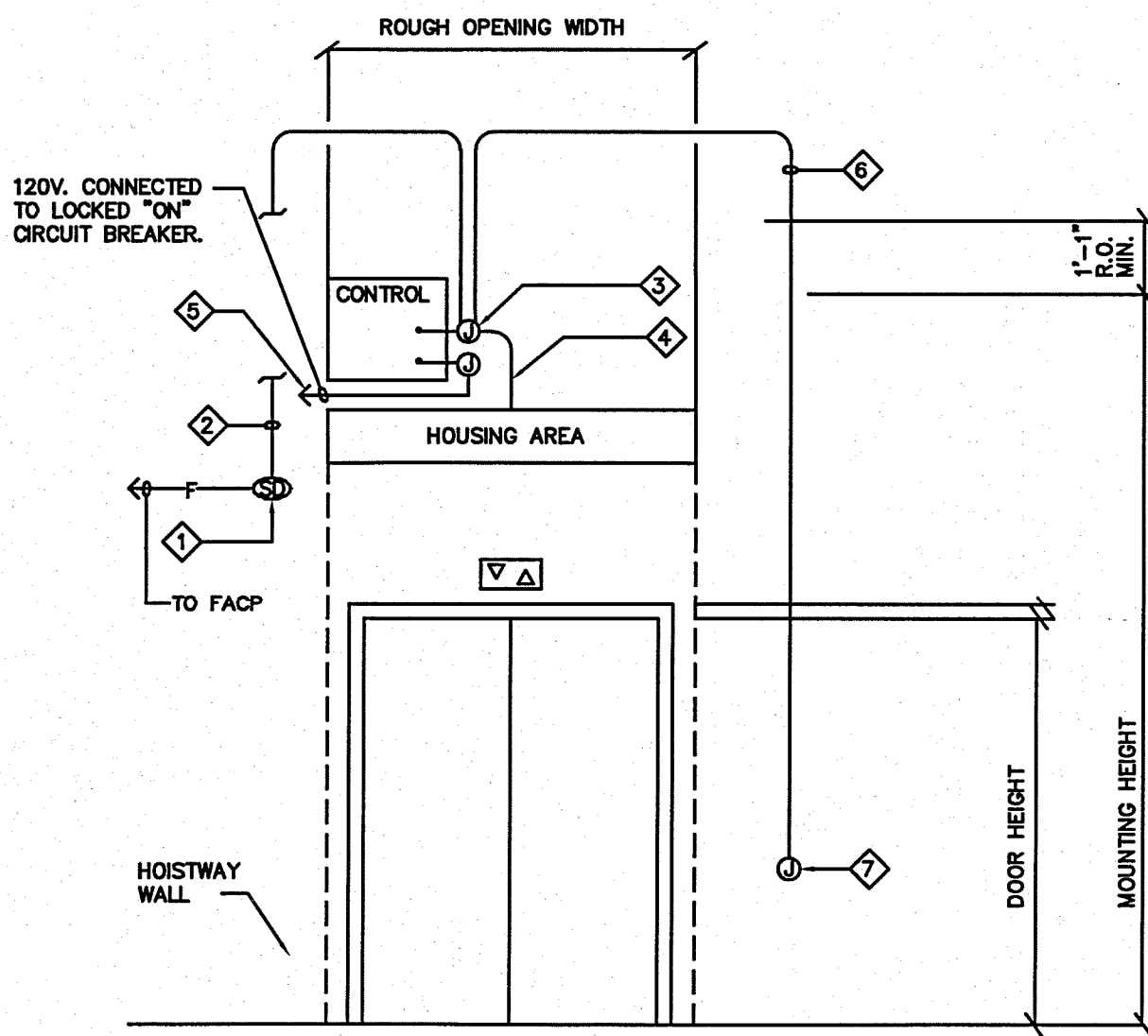
RECESSED MTD. PNL/CAB. STEEL FRAMING (NON-RATED WALL) SCALE N.T.S. 1



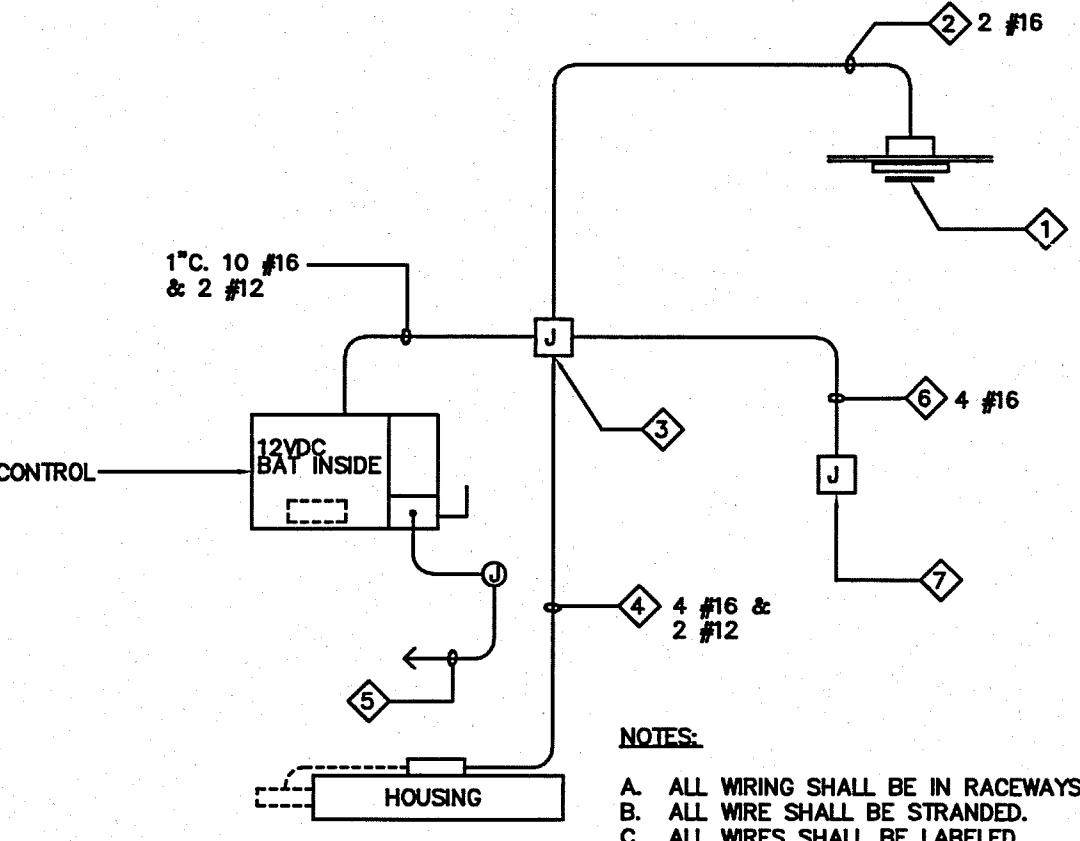
SURFACE MTD. PNL/CAB. STEEL FRAMING SCALE N.T.S. 2



UNDER FLOOR SIGNAL REF. GRID GROUNDING DETAIL SCALE N.T.S. 3

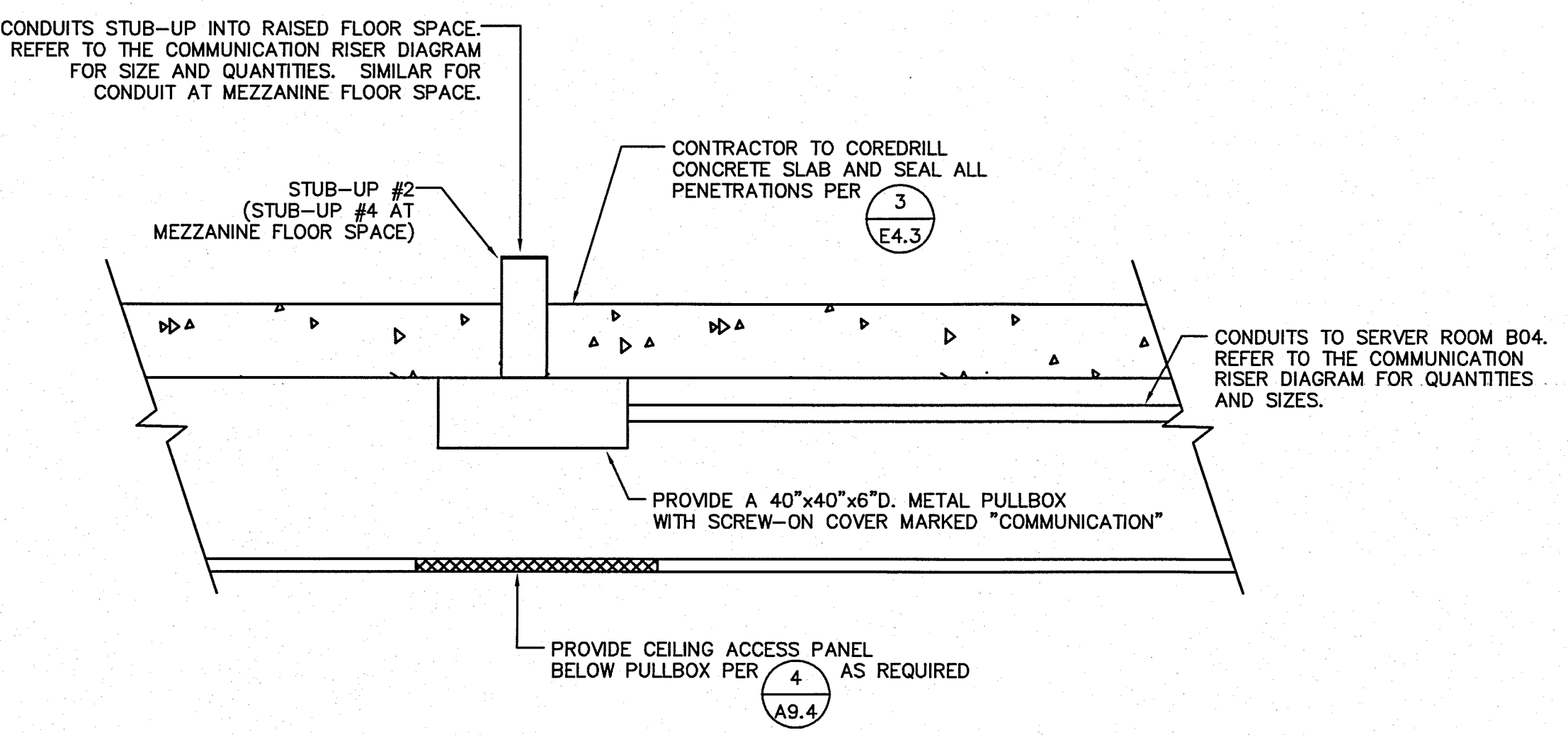


- KEYNOTES**
- ◇ SMOKE DETECTOR (SEE FIRE ALARM DRAWINGS) WITH RELAY BASE.
  - ◇ 1/2" CONDUIT & CONTROL WIRING TO CONTROL PANEL.
  - ◇ CONTROL PULLBOX. COORDINATE EXACT LOCATION IN FIELD & WITH SYSTEM SUPPLIER.
  - ◇ 1/2" C. TO HOUSING FOR CONTROL.
  - ◇ 120V. POWER CIRCUIT. SEE FLOOR PLANS FOR CIRCUITING.
  - ◇ 1/2" C. & CONTROL SWITCH WIRING TO REMIND SWITCH J-BOX.
  - ◇ REMIND SWITCH DEEP J-BOX WITH SINGLE GANG RING. VERIFY EXACT LOCATION IN FIELD WITH ARCHITECT & SYSTEM SUPPLIER.

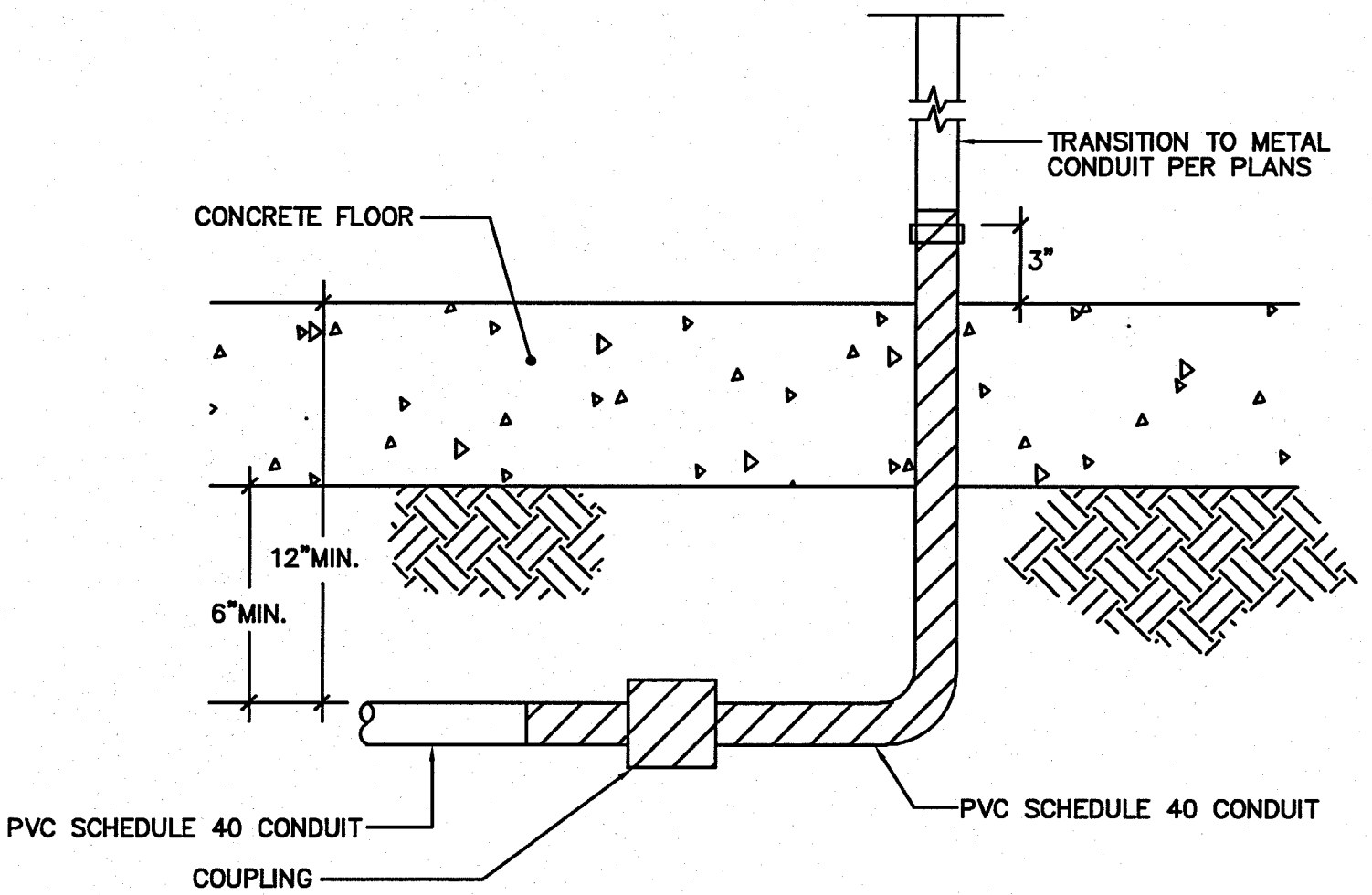


- NOTES:**
- A. ALL WIRING SHALL BE IN RACEWAYS.
  - B. ALL WIRE SHALL BE STRANDED.
  - C. ALL WIRES SHALL BE LABELED AS INDICATED.
  - D. ALL LOW VOLTAGE WIRES SHALL START AT DEVICE AND END AT CONTROL STATION.
- ALL ELECTRICAL FITTINGS, CONDUIT & WIRE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE.
- LOW VOLTAGE TERMINATIONS: SOLELY BY FACTORY CERTIFIED INSTALLER.

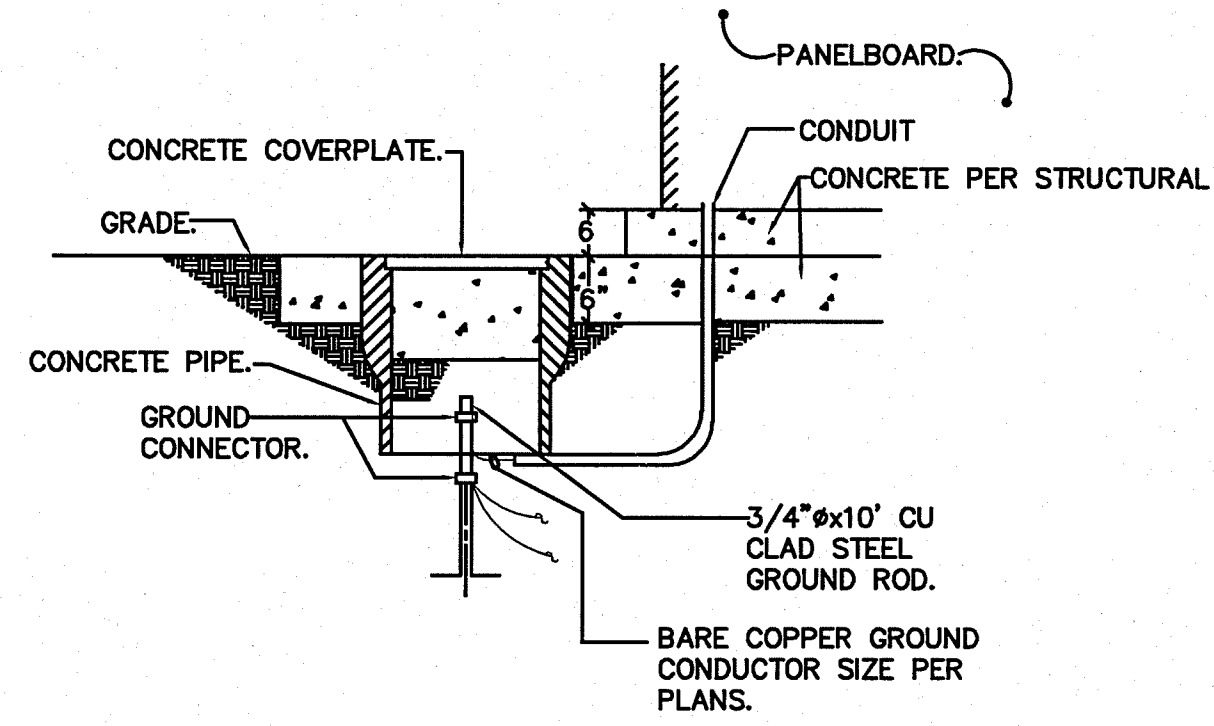
ELEVATOR SMOKE BARRIER SYSTEM CONDUIT LAYOUT & WIRING SCHEMATIC SCALE N.T.S. 4



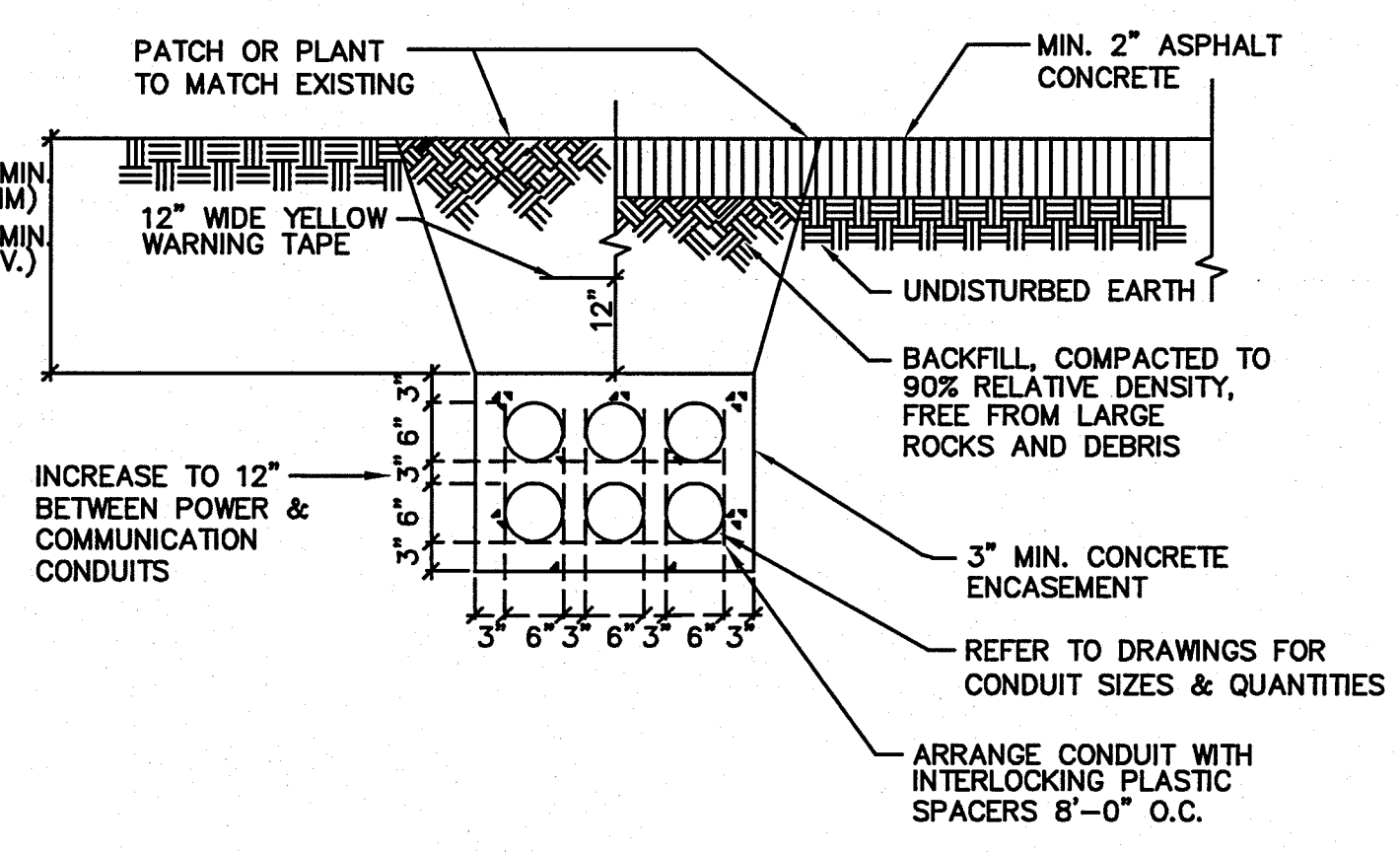
CONDUIT STUB-UP DETAIL AT EXISTING FLOOR SCALE N.T.S. 6



CONDUIT INSTALLED BELOW GRADE TO ABOVE GRADE DETAIL SCALE N.T.S. 7



GROUND ROD DETAIL SCALE N.T.S. 8



TYPICAL MULTI-CONDUIT PLACEMENT DETAIL SCALE N.T.S. 9

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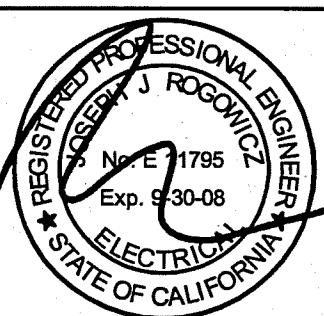
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 REIN. 02/11

**CLAYPOOL BUILDING RECONSTRUCTION**  
 PALO VERDE COLLEGE, NEEDLES CENTER  
 PALO VERDE COMMUNITY COLLEGE DISTRICT  
 725 WEST BROADWAY STREET, NEEDLES, CALIFORNIA 92383

DATE 07-06-07  
 DRAWN 2007-SH95-00  
 SHEET NO. E4.2  
 DATE APR. 07 2011



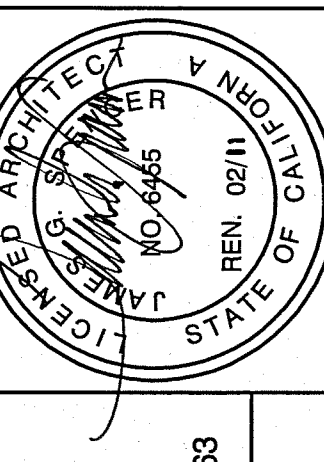




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REVISIONS table with columns for NO., DATE, and DESCRIPTION.

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**CLAYPOOL BUILDING RECONSTRUCTION**  
PALO VERDE COLLEGE, NEEDLES CENTER  
PALO VERDE COMMUNITY COLLEGE DISTRICT  
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**PANEL SCHEDULES**  
DATE: 07-08-07  
JOB NO.: 2007-SH85-00  
DRAWN BY: SLS  
CHECKED BY: SLS  
SHEET NO.: E5.1  
DATE: APR 07 2011

PANEL "HBA" LOCATION ELECTRICAL ROOM B17. Table with columns: DESCRIPTION, VOLT-AMPS (A, B, C), OUTLETS (L, R, M), and DESCRIPTION. Includes items like LIGHTING RM. B03 - B07, CORRIDOR B02, STAIRWELL LIGHTS, etc.

PANEL "LBA" LOCATION ELECTRICAL ROOM B17. Table with columns: DESCRIPTION, VOLT-AMPS (A, B, C), OUTLETS (L, R, M), and DESCRIPTION. Includes items like COMPUTER GRAPHICS B05, COMPUTER LAB B08, CLASSROOM B10, etc.

PANEL "LBB" LOCATION ELECTRICAL ROOM B17. Table with columns: DESCRIPTION, VOLT-AMPS (A, B, C), OUTLETS (L, R, M), and DESCRIPTION. Includes items like STAR #1, STAR #1, ELEVATOR PIT, SERVER B04, etc.

CIRCUIT BREAKER 38 SHALL BE REPLACED WITH RED HANDLE WITH LOCK-ON DEVICE FOR FIRE ALARM CIRCUIT

PANEL "LBC" LOCATION ELECTRICAL ROOM B17. Table with columns: DESCRIPTION, VOLT-AMPS (A, B, C), OUTLETS (L, R, M), and DESCRIPTION. Includes items like FC-1, ZONE DAMPER, SP-1, etc.

PANEL "LIA" LOCATION HALLWAY 13. Table with columns: DESCRIPTION, VOLT-AMPS (A, B, C), OUTLETS (L, R, M), and DESCRIPTION. Includes items like FINANCIAL AID/ BURSAR, HALLWAY 13, LIBRARY/ GROUP STUDENT, etc.

PANEL "LIB" LOCATION HALLWAY 13. Table with columns: DESCRIPTION, VOLT-AMPS (A, B, C), OUTLETS (L, R, M), and DESCRIPTION. Includes items like COPY RM / RECORD VAULT, ZONE DAMPER, FC-1, etc.

PANEL "LMA" LOCATION STAFF MEETING RM. M03. Table with columns: DESCRIPTION, VOLT-AMPS (A, B, C), OUTLETS (L, R, M), and DESCRIPTION. Includes items like WORK STATIONS, ADMINISTRATION OFFICES, RESTROOM M05 & M06, etc.

Legend table for panel symbols: "HBA", "LBA", "LBB", "LBC", "LIA", "LIB", "LMA".

- PANEL SCHEDULE NOTES: (WHERE NOTED)
1. CIRCUITS WITH "O" SHALL BE GROUND FAULT CIRCUIT INTERRUPTER TYPE.
2. CIRCUITS WITH "L" ADJACENT SHALL BE LOCKED "ON" WITH APPROVED LOCKING DEVICE.
3. CIRCUITS WITH "S" ADJACENT SHALL BE SHUNT TRIP CONTROLLED CIRCUIT BREAKERS. CONTROLS AS INDICATED ON DRAWINGS.
4. CIRCUITS WITH "A" ADJACENT SHALL BE CONTROLLED BY EMS SYSTEM FURNISH AND INSTALL CONTACTORS ABOVE PANEL IN SEPARATE ENCLOSURE.
5. CIRCUITS WITH "E" ADJACENT SHALL BE EMS CONTROLLED.
6. CIRCUITS WITH "C" ADJACENT SHALL BE SHUNT TRIP CONTROLLED CIRCUIT BREAKERS. ACTIVATION OF HOOD SUPPRESSION SYSTEM SHALL DISCONNECT RELATED CIRCUITS INDICATED. PROVIDE N.C. CONTACTS IN SEPARATE ENCLOSURE ABOVE PANEL FOR CONTROL.
7. CIRCUITS WITH "\*" ADJACENT SHALL BE RED IN COLOR AND INDICATED AS "FIRE ALARM CIRCUIT".

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### FIRE ALARM REQUIREMENTS

- THE CONTRACTOR SHALL PROVIDE AND SUBMIT THE FIRE ALARM SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION OF THE FIRE ALARM SYSTEM. THE SUBMITTAL SHALL CONTAIN THE FOLLOWING:
    - SHOP DRAWINGS: COMPLETE 1/8" SCALE FLOOR PLANS SHOWING ALL DEVICES, COMPONENTS, CONDUIT AND WIRING INDICATING A COMPLETE AND OPERABLE SYSTEM AS DESIGNED AND SPECIFIED. REPRODUCED COPIES OF BID SET FIRE ALARM PLANS ARE NOT ACCEPTABLE AS SHOP DRAWINGS. SHOP DRAWINGS MUST ALSO INDICATE DEVICE MOUNTING HEIGHTS, ROOM NAMES AND NUMBERS AND THE LOCATION OF ALL FIRE RATED WALLS.
    - ELECTRICAL CONTRACTOR'S AND FIRE ALARM SYSTEM INSTALLER'S NAME, ADDRESS, PHONE NUMBER AND C-10 LICENSE NUMBER.
    - LIST OF SYSTEM COMPONENTS, EQUIPMENT AND DEVICES, INCLUDING MANUFACTURERS' MODEL NUMBERS AND CALIFORNIA STATE FIRE MARSHALL LISTING NUMBERS.
    - ORIGINAL COPIES OF MANUFACTURERS' SPECIFICATION SHEETS FOR ALL EQUIPMENT AND DEVICES INDICATED.
    - VOLTAGE DROP CALCULATIONS -- INCLUDE THE FOLLOWING INFORMATION FOR THE WORST CASE:
      - POINT-TO-POINT OR OHMS LAW CALCULATIONS.
      - IDENTIFICATION OF ZONE USED IN CALCULATIONS.
      - VOLTAGE DROP PERCENT [NOT TO EXCEED MANUFACTURERS' REQUIREMENTS].NOTE: IF VOLTAGE DROP EXCEEDS 10% INDICATE MANUFACTURERS' LISTED OPERATING VOLTAGE RANGE(S) FOR EQUIPMENT AND DEVICES.
    - NOTE CIRCUIT NUMBER FOR WORST CASE CALCULATION.
  - BATTERY TYPE(S), AMP HOURS AND LOAD CALCULATIONS -- INCLUDE THE FOLLOWING INFORMATION:
    - NORMAL OPERATION: 100% OF APPLICABLE DEVICES FOR 24 HOURS = CONTROL PANEL AMPS PLUS LIST OF AMPS PER DEVICE WHICH DRAW POWER FROM THE PANEL DURING STANDBY POWER CONDITION -- I.E.:
      - ZONE MODULES
      - SIGNAL MODULES
      - DETECTORS
      - SIGNAL DEVICES
      - ANNUNCIATOR
      - OTHER DEVICES [IDENTIFY]
    - NORMAL OPERATION + ALARM OPERATION
      - TOTAL AMP HOURS REQUIRED.
      - TOTAL AMP HOURS PROVIDED.
- THE MANUFACTURERS INDICATED ON DRAWINGS AND IN SPECIFICATIONS ARE THE ORS/DASA APPROVED MANUFACTURER OF THIS PROJECT. THE NOTIFIER SYSTEM INDICATED IS THE DISTRICT STANDARD AND NO SUBSTITUTIONS WILL BE ACCEPTED.

### FIRE ALARM NOTES

- SCOPE OF WORK: PROVIDE A COMPLETE MANUAL FIRE ALARM SYSTEM WITH SUPPLEMENTAL SMOKE BACK UP IN ACCORDANCE TO NFPA-72 AND CCR TITLE 24, PART 2, SECTION 305.9.
- A FIRE ALARM SYSTEM IS BEING INSTALLED IN OCCUPANCIES LISTED, PER DSA POLICY 95-3. PROVIDE NEW NOTIFIER FIRE ALARM CONTROL PANEL AS INDICATED.
- PLANS AND SPECIFICATIONS FOR THE SYSTEM SHALL BE APPROVED BY AUTHORITIES HAVING JURISDICTION PRIOR TO SYSTEM INSTALLATION.
- UPON RECEIPT OF THE CERTIFICATE OF COMPLIANCE, THE MANUFACTURER AND OR INSTALLER SHALL SUPPLY THE OWNER WITH WRITTEN OPERATING, TESTING AND MAINTENANCE INSTRUCTIONS, POINT-TO-POINT AS-BUILT DRAWINGS, AND EQUIPMENT SPECIFICATIONS.
- THE SYSTEM SHALL CONFORM TO TITLE 19 AND TITLE 24 AS APPLICABLE TO THIS PROJECT.
- ALL THE DEVICES OF THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHALL.
- A STAMPED SET OF APPROVED PLANS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. ANY DEVIATION FROM APPROVED PLANS, SHALL BE APPROVED AND SIGNED BY THE DSA INSPECTOR OF RECORD.
- ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD.
- CONDUIT SYSTEM TO BE FURNISHED AND INSTALLED PER PLANS AND SPECIFICATIONS.
- UPON COMPLETION OF SYSTEM INSTALLATION, THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF AND IN A MANNER ACCEPTABLE TO THE ENFORCING AGENCY.
- PENETRATIONS OF FIRE-RATED WALLS SHALL BE PROTECTED IN ACCORDANCE WITH 2001 EDITION CALIFORNIA BUILDING CODE, CHAPTER 7.
- ALL EQUIPMENT SHALL BE U.L. AND C.S.F.M. LISTED.
- ALL WIRING SHALL BE IN ACCORDANCE WITH THE C.E.C. AND AUTHORITIES HAVING JURISDICTION.
- ALL FIRE ALARM CONDUIT SHALL BE 3/4" MIN. U.O.N. ALL FIRE ALARM CONDUIT INSTALLED UNDERGROUND SHALL BE 1" MIN. U.O.N. ALL FIRE ALARM CONDUITS SHALL BE INSTALLED IN AN APPROVED RACEWAY.
- ALL AUDIBLE DEVICES SHALL BE IN SYNCHRONOUS.
- VISUAL DEVICES SHALL NOT EXCEED 3 FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THEY SHALL BE SYNCHRONOUS.
- UNDERGROUND AND EXTERIOR CONDUITS SHALL HAVE WATER TIGHT FITTINGS.
- AUDIBLE DEVICES SHALL BE AT LEAST 15dB ABOVE THE EQUIVALENT SOUND LEVEL BUT NOT LESS THAN 75dB AT 10' OR MORE THAN 110dB AT THE MINIMUM HEARING DISTANCE.
- AUDIBLE DEVICES SHALL SOUND THE CALIFORNIA TEMPORAL FIRE ALARM SIGNAL.
- COORDINATE EXACT LOCATION OF ALL CEILING FIRE ALARM DEVICES IN FIELD.
- CIRCUIT LENGTH INDICATED ON DRAWING IS FOR PLAN CHECK PURPOSES ONLY. CONTRACTOR SHALL FIELD VERIFY EXACT LENGTH.
- ALL JUNCTION BOXES SHALL BE SIZED IN ACCORDANCE WITH THE C.E.C.
- ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS TO AREAS THAT REQUIRE SERVICING, TROUBLE SHOOTING, ETC., AS REQUIRED. COORDINATE WITH ARCHITECT FOR ACCESS PANEL.
- ALL 120VAC POWER REQUIREMENTS FOR THE FIRE ALARM SYSTEM SHALL BE FURNISHED BY CONTRACTOR AND SHALL MEET ALL REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
- ALL WIRING, ANNUNCIATING DEVICES AND ANNUNCIATOR PANEL SHALL BE SUPERVISED TO THE PRINCIPLE POINT OF ANNUNCIATION. THE FIRE ALARM CONTROL PANEL TO SUPERVISE THE ANNUNCIATOR PANEL, ALL INITIATING AND INDICATING DEVICES CIRCUITS.
- ALL WIRING SHALL BE CUT FOR IN AND OUT. WIRING SHALL NOT BE LOOPED THROUGH DEVICES.

WIRE DESCRIPTION	CONDUCTOR COLORS	WIRE IN CONDUIT	NO CONDUIT NO PLUMB	NO CONDUIT NO PLUMB	UNDERGROUND/WET WIRE DESCRIPTION	WIRE IN CONDUIT UNDERGROUND/WET LOC.
ADDRESS LOOP	RED/JACKET RED/BLACK	2 CONDUCTOR #18 PPL SOLID UNSHIELDED WEST PENN (039 sq.in.) #6095	2 CONDUCTOR #18 PPL SOLID UNSHIELDED WEST PENN (019 sq.in.) #6095	2 CONDUCTOR #18 PPL SOLID UNSHIELDED WEST PENN (019 sq.in.) #6095	ADDRESS LOOP ZU	2 CONDUCTOR #18 PPL STRANDED TWISTED/UNSHIELDED WEST PENN (068 sq.in.) #4225
INITIATION EXT	YELLOW/PURPLE	(2) #14 STRANDED TYPE THHN	2 CONDUCTOR #14 PPL SOLID UNSHIELDED WEST PENN (019 sq.in.) #6095	2 CONDUCTOR #14 PPL SOLID UNSHIELDED WEST PENN (019 sq.in.) #6095	INT. LOOP FU	(2) #14 STRANDED TYPE THHN
ANNUAL DATA	RED/JACKET RED/BLACK	2 CONDUCTOR #18 PPL SOLID UNSHIELDED WEST PENN (039 sq.in.) #6095	2 CONDUCTOR #18 PPL SOLID UNSHIELDED WEST PENN (017 sq.in.) #6095	2 CONDUCTOR #18 PPL SOLID TWISTED/UNSHIELDED WEST PENN (016 sq.in.) #6095	ANNUAL DATA DU	2 CONDUCTOR #18 PPL STRANDED TWISTED/UNSHIELDED WEST PENN (068 sq.in.) #4225
ANNUAL EXT	YELLOW/BLUE	(2) #14 STRANDED TYPE THHN	2 CONDUCTOR #14 PPL SOLID UNSHIELDED WEST PENN (030 sq.in.) #6095	2 CONDUCTOR #14 PPL SOLID UNSHIELDED WEST PENN (031 sq.in.) #6095	ANNUAL EXT BU	(2) #14 STRANDED TYPE THHN
24V POWER	PINK/PURPLE	(2) #14 STRANDED TYPE THHN	3 CONDUCTOR #14 PPL SOLID UNSHIELDED WEST PENN (030 sq.in.) #6095	2 CONDUCTOR #14 PPL SOLID UNSHIELDED WEST PENN (041 sq.in.) #6095	POWER OUT PU	(2) #14 STRANDED TYPE THHN
AUD/VSX CRT	YELLOW/BLUE ORANGE/BROWN RED/BLACK	(2) #12 STRANDED TYPE THHN	2 CONDUCTOR #12 PPL SOLID UNSHIELDED WEST PENN (040 sq.in.) #6095	2 CONDUCTOR #12 PPL SOLID UNSHIELDED WEST PENN (041 sq.in.) #6095	VISUAL VU	(2) #12 STRANDED TYPE THHN
SYNC/MISC	YELLOW/BLUE	(2) #12 STRANDED TYPE THHN	2 CONDUCTOR #12 PPL SOLID UNSHIELDED WEST PENN (040 sq.in.) #6095	2 CONDUCTOR #12 PPL SOLID UNSHIELDED WEST PENN (041 sq.in.) #6095	SYNC/MISC CU	(2) #12 STRANDED TYPE THHN

NOTES:  
ALL WIRE MODEL NUMBERS ARE WEST PENN. EQUIVALENT BY OTHER MANUFACTURER IS ACCEPTABLE.  
ALL SHIELDED CABLE MUST HAVE SHIELDS CONNECTED THROUGH AND LANCED IN PANEL.  
ALL SQUARE INCH MEASUREMENTS ARE CROSS-SECTION AREA FOR CONDUIT FILLS

### FIRE ALARM WIRE LEGEND

- APPLICABLE CODES AS OF APRIL 1, 2007
- 2001 Building Standards Administrative Code, Part 1, Title 24 C.C.R.  
2001 California Building Code (CBC), Part 2, Title 24 C.C.R., (1997 Uniform Building Code vols. 1-3 & 2001 California Amendments)  
2004 California Electrical Code (CEC), Part 3, Title 24 C.C.R., (2001 National Electrical Code and 2004 California Amendments)  
2001 California Mechanical Code (CMC), Part 4, Title 24 C.C.R., (2000 Uniform Mechanical Code and 2001 California Amendments)  
2001 California Fire Code (CFC), Part 9, Title 24 C.C.R., (2000 Uniform Fire Code and 2001 California Amendments)  
2001 California Referenced Standards Code, Part 12, Title 24, C.C.R.
- PARTIAL LIST OF APPLICABLE NFPA STANDARDS:
- NFPA 13-Automatic Sprinkler Systems (2002 Edition)  
NFPA 14-Standpipes Systems (2002 Edition)  
NFPA 72-National Fire Alarm Codes (2002 Edition)

### APPLICABLE CODES & STANDARDS

CONDUCTOR SIZE AWG	12 GA THHN/THWN	14 GA THHN/THWN	16 GA THN/TFN	18 GA THN/TFN
AREA (in <sup>2</sup> )	0.0133	0.0097	0.0072	0.0055

	1/2" CONDUIT	3/4" CONDUIT	1" CONDUIT	1 1/4" CONDUIT	1 1/2" CONDUIT	2" CONDUIT
TOTAL AREA	0.304 in <sup>2</sup>	0.533 in <sup>2</sup>	0.864 in <sup>2</sup>	1.496 in <sup>2</sup>	2.036 in <sup>2</sup>	3.356 in <sup>2</sup>
40% FILL	0.122 in <sup>2</sup>	0.213 in <sup>2</sup>	0.346 in <sup>2</sup>	0.598 in <sup>2</sup>	0.814 in <sup>2</sup>	1.342 in <sup>2</sup>

CONDUCTOR SIZE AWG	1/2" CONDUIT	3/4" CONDUIT	1" CONDUIT	1 1/4" CONDUIT	1 1/2" CONDUIT	2" CONDUIT
18	22	38	62	108	148	244
16	16	29	48	83	113	186
14	12	21	35	61	83	136
12	9	16	26	44	61	100

### CONDUIT FILL CHART

QUANTITY	SYMBOL	DESCRIPTION	MODEL	MANUFACTURER	BACKBOX	MOUNTING HEIGHT	C.S.F.M. NUMBER
1	FAP	FIRE ALARM CONTROL PANEL	NFS2-640	NOTIFIER	SBB-C4 PROVIDED	66" A.F.F. TO TOP	7165-0028:243
1	FAR	FIRE ALARM ANNUNCIATOR PANEL	FDU-80	NOTIFIER	BACKBOX PROVIDED	66" A.F.F. TO TOP	7120-0028:209
1	FAP	AUDIO/VISUAL POWER SUPPLY	FCPS-2458	NOTIFIER	FCPS PROVIDED	66" A.F.F. TO TOP	7120-0028:209
1	M	FIRE ALARM MONITOR MODULE	FM-1	NOTIFIER	45 DEEP BOX W/ 45 EXTENSION	66" A.F.F. TO TOP	7315-0028:225
2	M	FIRE ALARM DUAL MONITOR MODULE	FDM-1	NOTIFIER	45 DEEP BOX W/ 45 EXTENSION	VERIFY IN FIELD	7300-0028:202
9	FR	FIRE ALARM RELAY MODULE	FRM-1	NOTIFIER	45 DEEP BOX W/ 45 EXTENSION	VERIFY IN FIELD	7300-0028:202
7	R	24VDC RELAY	PR-1	SYSTEM SENSOR	55 DEEP BOX W/ 55 EXTENSION	VERIFY IN FIELD	7300-1653:172
4	P	MANUAL PULL STATION	NBG-12XL	NOTIFIER	45 DEEP BOX W/ SINGLE GANG RING	48" A.F.F. TO CENTER	7150-0028:199
5	SD	AREA SMOKE DETECTOR (ADDRESSABLE - PHOTO)	FSP-B51 B710LP	NOTIFIER	45 DEEP BOX W/ 3-O RING	CEILING	7272-0028:206 7300-0028:173
1	SD	AREA HEAT DETECTOR (ADDRESSABLE)	FST-B51 B710LP	NOTIFIER	45 DEEP BOX W/ 3-O RING	CEILING	7270-0028:196 7300-0028:173
16	SD	AIR HANDLING DUCT SMOKE DET. (PHOTO)	FSD-751PL	NOTIFIER	FSD-751 PROVIDED	VERIFY IN FIELD	3240-0028:205
6	ES	FIRE ALARM WALL STROBE	ZRS-MCW-FW WHEEL LOCK (WHITE)		45 DEEP BOX W/ 45 EXTENSION	90" A.F.F. TO BOTTOM	7125-0785:141
6	ES	FIRE ALARM WALL STROBE	ZRS-MCW-FW WHEEL LOCK (WHITE)		45 DEEP BOX W/ 45 EXTENSION	90" A.F.F. TO BOTTOM	7125-0785:141
9	ES	FIRE ALARM WALL STROBE	ZRS-MCW-FW WHEEL LOCK (WHITE)		45 DEEP BOX W/ 45 EXTENSION	90" A.F.F. TO BOTTOM	7125-0785:142
4	ES	FIRE ALARM WALL STROBE	ZRS-MCW-FW WHEEL LOCK (WHITE)		45 DEEP BOX W/ 45 EXTENSION	90" A.F.F. TO BOTTOM	7125-0785:142
16	ES	SPRINKLER WATER FLOW - F.B.O.	WFD	NOTIFIER	N/A	VERIFY IN FIELD	7770-1653:114
1Z	IS	SPRINKLER VALVE TAMPER - F.B.O.	OSY2	NOTIFIER	N/A	VERIFY IN FIELD	7770-1653:118
5	B	120VAC SPRINKLER JUNCTION BOX	F.B.O.	F.B.O.	F.B.O.	VERIFY IN FIELD	F.B.O.
---	D	FIRE ALARM TERMINAL CABINET	N/A	BY ELECTRICIAN	45 BOX U.O.N.	VERIFY IN FIELD	N/A
---	---	FIRE ALARM ABOVE FINISHED FLOOR	N/A	N/A	N/A	N/A	N/A
---	---	EOL END OF LINE RESISTOR	N/A	N/A	N/A	N/A	N/A
---	DR	DROP & REHANG EXISTING DEVICE	N/A	N/A	N/A	N/A	N/A
---	RL	RELOCATED EXISTING DEVICE	N/A	N/A	N/A	N/A	N/A
---	EX	EXISTING DEVICE	N/A	N/A	N/A	N/A	N/A
---	F.B.O.	FURNISHED BY OTHERS	N/A	N/A	N/A	N/A	N/A
---	N/A	NOT APPLICABLE	N/A	N/A	N/A	N/A	N/A
---	U.O.N.	UNLESS OTHERWISE NOTED	N/A	N/A	N/A	N/A	N/A
---	VL	VERIFY LOCATION IN FIELD	N/A	N/A	N/A	N/A	N/A
---	WP	WEATHERPROOF DEVICE	N/A	N/A	N/A	N/A	N/A
---	N	NEW DEVICE	N/A	N/A	N/A	N/A	N/A
---	o	CONDUIT DOWN CONDUIT UP	N/A	N/A	N/A	N/A	N/A
---	ESD	COMBINATION SMOKE/FIRE DAMPER (F.B.O.)	F.B.O.	BY MECHANICAL	F.B.O.	F.B.O.	F.B.O.
---	ES	DEDICATED PHONE LINE - F.B.O.	F.B.O.	F.B.O.	F.B.O.	F.B.O.	N/A

### SEQUENCE OF OPERATION

DEVICE	MANUAL PULL STATION	DUCT SMOKE DETECTOR	SMOKE DETECTOR	120VAC POWER FAILURE	HEAT DETECTOR	FLOW SWITCH	TAMPER SWITCH
SOUND CONTROL PANEL TROUBLE BUZZER	ON WIRING FAULT	ON WIRING FAULT	ON WIRING FAULT	YES	YES	YES	YES
ANNUNCIATE AT ADMINISTRATION BUILDING	YES	YES	YES	YES	YES	YES	YES
ANNUNCIATE AT FIRE CONTROL PANEL (ALARM OR TROUBLE)	YES	YES	YES	YES	YES	YES	YES
ACTIVATE AUDIBLE/VISUAL ALARM THROUGH-OUT BUILDING	YES	YES	YES	NO	NO	YES	NO
SHUT DOWN HVAC UNITS & CLOSE FIRE/SMOKE DAMPERS	NO	NO	NO	NO	NO	NO	NO
ALERT OFF-SITE MONITORING COMPANY	YES	YES	YES	YES	YES	YES	YES
ELEVATOR POWER SHUT DOWN	NO	NO	NO	NO	YES	YES	NO

### FIRE ALARM LEGEND

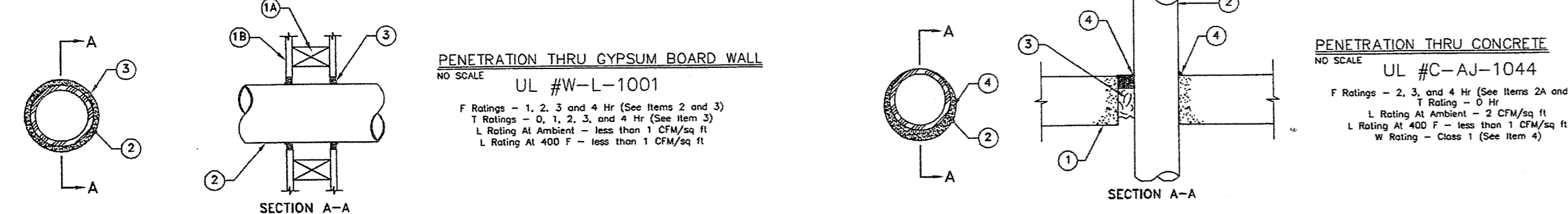
SHEET	DESCRIPTION
FA0.01	SYMBOL LEGEND, SHEET INDEX, SEQUENCE OF OPERATIONS, GENERAL NOTES, WIRE DESIGNATIONS, BUILDING INFORMATION
FA0.02	FIRE ALARM SYSTEM CALCULATIONS AND RISER DIAGRAM
FA1.01	FIRE ALARM FLOOR PLAN - BASEMENT
FA1.02	FIRE ALARM FLOOR PLAN - 1ST FLOOR
FA1.03	FIRE ALARM FLOOR PLAN - MEZZANINE
FA1.04	FIRE ALARM FLOOR PLAN - BUILDING E - ROOF
FA2.01	FIRE ALARM TYPICAL ELEVATIONS, MOUNTING AND WIRING DETAILS
FA2.02	FIRE ALARM CONTROL PANEL CABINET LAYOUT

### SHEET INDEX

FIRE ALARM SYSTEM SCOPE  
A COMPLETE AUTOMATIC FIRE ALARM SYSTEM IN ACCORDANCE WITH 2001 CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2, SECTION 305.9.

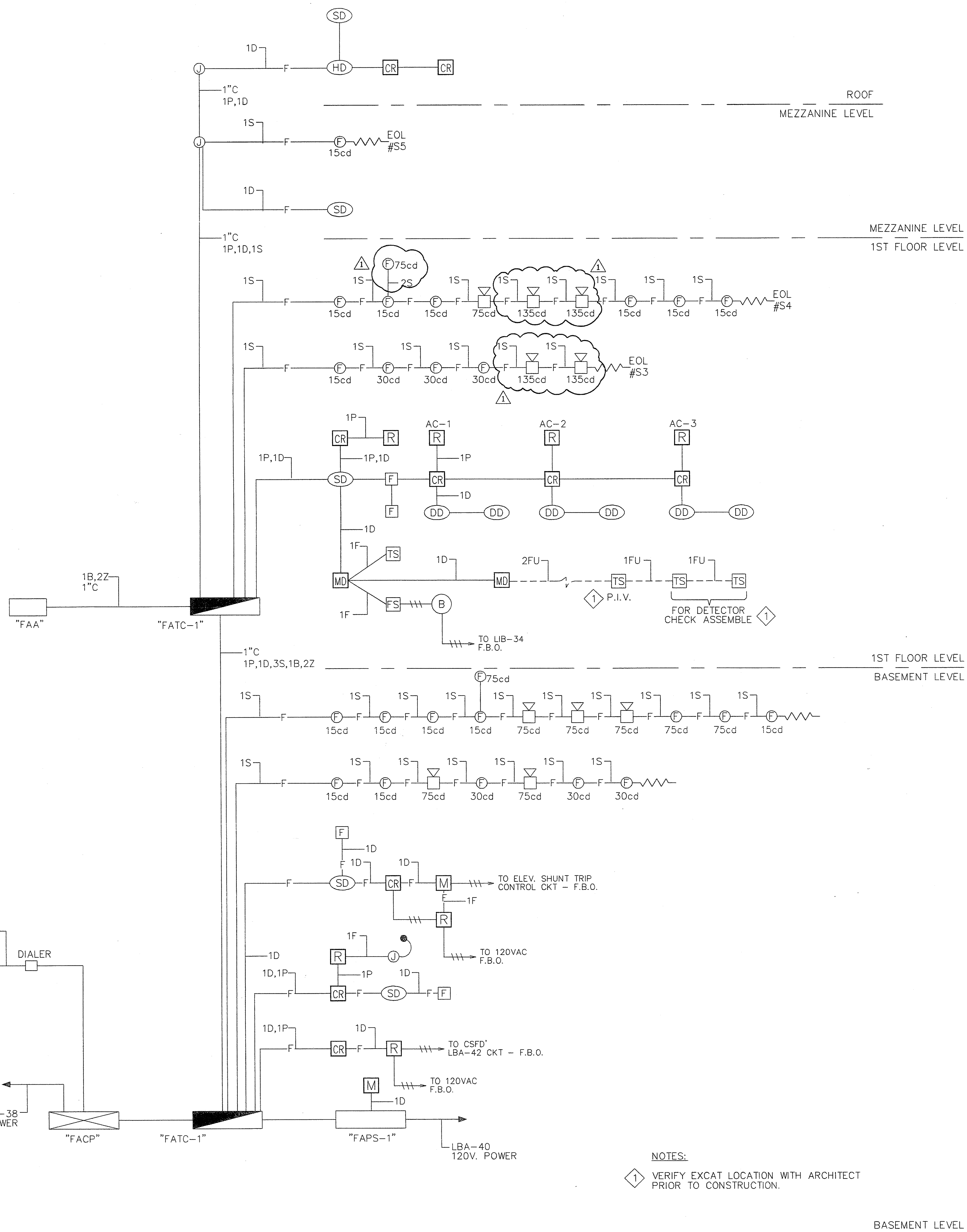
COMPLETE AUTOMATIC FIRE ALARM SYSTEM PLAN SUBMITTAL PER DSA POLICY 95-03(FLS)

110562  
APR 07 2011



1. Wall Assembly - The 1, 2, 3 & 4 for fire-rated gypsum wallboard shall be constructed of the materials and in the manner specified in the referenced ULDO or ULDI Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction details:  
A. Gypsum - and framing may consist of either wood studs (two 2 in. fire rated assemblies) or steel channel studs. Wood studs to consist of 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with room 2 by 4 in. (51 by 102 mm) lumber and plates and cross bracing. Steel studs to be 2-1/2 in. (63 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.  
B. Gypsum Board - Min 1/2 in. (13 mm) thick. 4 in. (102 mm) high with square or tapered edges. The gypsum without joint thickness, number of joints, tolerance type and joint condition shall be as specified in the referenced ULDO or ULDI Series Design in the UL Fire Resistance Directory. Min diam of opening is 28 in. (680 mm).  
2. Through-Penetration - This detail includes steel, conduit or tubing installed either concentrically or eccentrically within the framing system. The annular space between pipe, conduit or tubing and perimeter of opening shall be min of 4 in. (102 mm). (Joint control) to max 2 in. (51 mm) Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of materials, conduit or tubing may be used:  
A. Steel Pipe - Min 2 1/2 in. (64 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.  
B. Steel Pipe - Min 2 1/2 in. (64 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.  
C. Conduit - Min 1 1/2 in. (38 mm) diam (or smaller) steel conduit or min 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.  
D. Copper Tubing - Min 1 in. (25 mm) diam (or smaller) Type L (or heavier) copper tubing.  
E. Copper Pipe - Min 1 in. (25 mm) diam (or smaller) regular (or heavier) copper pipe.  
F. Copper Fittings/Fittings - Flange and fitting. The flange type of steel flange metal pipe gaging may be used.  
3. Penetration thru Gypsum Board Wall (See Detail FA-0.01)  
A. Min 1 in. (25 mm) diam (or smaller) steel flexible metal pipe gaging. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.  
B. Min 1 in. (25 mm) diam (or smaller) steel flexible metal pipe gaging. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.  
C. Min 1 in. (25 mm) diam (or smaller) steel flexible metal pipe gaging. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.  
4. Penetration thru Concrete (See Detail FA-0.02)  
A. Min 1 in. (25 mm) diam (or smaller) steel flexible metal pipe gaging. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.  
B. Min 1 in. (25 mm) diam (or smaller) steel flexible metal pipe gaging. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.  
C. Min 1 in. (25 mm) diam (or smaller) steel flexible metal pipe gaging. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.  
5. Fire Stop or Condy Material - Condy or Sealant - Min 5/8 in. 1-1/4 in. 2 in. 2 1/2 in. 3 in. 4 in. 6 in. 8 in. 10 in. 12 in. 16 in. 20 in. 24 in. 30 in. 36 in. 48 in. 60 in. 72 in. 96 in. 120 in. 144 in. 168 in. 192 in. 216 in. 240 in. 264 in. 288 in. 312 in. 336 in. 360 in. 384 in. 408 in. 432 in. 456 in. 480 in. 504 in. 528 in. 552 in. 576 in. 600 in. 624 in. 648 in. 672 in. 696 in. 720 in. 744 in. 768 in. 792 in. 816 in. 840 in. 864 in. 888 in. 912 in. 936 in. 960 in. 984 in. 1008 in. 1032 in. 1056 in. 1080 in. 1104 in. 1128 in. 1152 in. 1176 in. 1200 in. 1224 in. 1248 in. 1272 in. 1296 in. 1320 in. 1344 in. 1368 in. 1392 in. 1416 in. 1440 in. 1464 in. 1488 in. 1512 in. 1536 in. 1560 in. 1584 in. 1608 in. 1632 in. 1656 in. 1680 in. 1704 in. 1728 in. 1752 in. 1776 in. 1800 in. 1824 in. 1848 in. 1872 in. 1896 in. 1920 in. 1944 in. 1968 in. 1992 in. 2016 in. 2040 in. 2064 in. 2088 in. 2112 in. 2136 in. 2160 in. 2184 in. 2208 in. 2232 in. 2256 in. 2280 in. 2304 in. 2328 in. 2352 in. 2376 in. 2400 in. 2424 in. 2448 in. 2472 in. 2496 in. 2520 in. 2544 in. 2568 in. 2592 in. 2616 in. 2640 in. 2664 in. 2688 in. 2712 in. 2736 in. 2760 in. 2784 in. 2808 in. 2832 in. 2856 in. 2880 in. 2904 in. 2928 in. 2952 in. 2976 in. 3000 in. 3024 in. 3048 in. 3072 in. 3096 in. 3120 in. 3144 in. 3168 in. 3192 in. 3216 in. 3240 in. 3264 in. 3288 in. 3312 in. 3336 in. 3360 in. 3384 in. 3408 in. 3432 in. 3456 in. 3480 in. 3504 in. 3528 in. 3552 in. 3576 in. 3600 in. 3624 in. 3648 in. 3672 in. 3696 in. 3720 in. 3744 in. 3768 in. 3792 in. 3816 in. 3840 in. 3864 in. 3888 in. 3912 in. 3936 in. 3960 in. 3984 in. 4008 in. 4032 in. 4056 in. 4080 in. 4104 in. 4128 in. 4152 in. 4176 in. 4200 in. 4224 in. 4248 in. 4272 in. 4296 in. 4320 in. 4344 in. 4368 in. 4392 in. 4416 in. 4440 in. 4464 in. 4488 in. 4512 in. 4536 in. 4560 in. 4584 in. 4608 in. 4632 in. 4656 in. 4680 in. 4704 in. 4728 in. 4752 in. 4776 in. 4800 in. 4824 in. 4848 in. 4872 in. 4896 in. 4920 in. 4944 in. 4968 in. 4992 in. 5016 in. 5040 in. 5064 in. 5088 in. 5112 in. 5136 in. 5160 in. 5184 in. 5208 in. 5232 in. 5256 in. 5280 in. 5304 in. 5328 in. 5352 in. 5376 in. 5400 in. 5424 in. 5448 in. 5472 in. 5496 in. 5520 in. 5544 in. 5568 in. 5592 in. 5616 in. 5640 in. 5664 in. 5688 in. 5712 in. 5736 in. 5760 in. 5784 in. 5808 in. 5832 in. 5856 in. 5880 in. 5904 in. 5928 in. 5952 in. 5976 in. 6000 in. 6024 in. 6048 in. 6072 in. 6096 in. 6120 in. 6144 in. 6168 in. 6192 in. 6216 in. 6240 in. 6264 in. 6288 in. 6312 in. 6336 in. 6360 in. 6384 in. 6408 in. 6432 in. 6456 in. 6480 in. 6504 in. 6528 in. 6552 in. 6576 in. 6600 in. 6624 in. 6648 in. 6672 in. 6696 in. 6720 in. 6744 in. 6768 in. 6792 in. 6816 in. 6840 in. 6864 in. 6888 in. 6912 in. 6936 in. 6960 in. 6984 in. 7008 in. 7032 in. 7056 in. 7080 in. 7104 in. 7128 in. 7152 in. 7176 in. 7200 in. 7224 in. 7248 in. 7272 in. 7296 in. 7320 in. 7344 in. 7368 in. 7392 in. 7416 in. 7440 in. 7464 in. 7488 in. 7512 in. 7536 in. 7560 in. 7584 in. 7608 in. 7632 in. 7656 in. 7680 in. 7704 in. 7728 in. 7752 in. 7776 in. 7800 in. 7824 in. 7848 in. 7872 in. 7896 in. 7920 in. 7944 in. 7968 in. 7992 in. 8016 in. 8040 in. 8064 in. 8088 in. 8112 in. 8136 in. 8160 in. 8184 in. 8208 in. 8232 in. 8256 in. 8280 in. 8304 in. 8328 in. 8352 in. 8376 in. 8400 in. 8424 in. 8448 in. 8472 in. 8496 in. 8520 in. 8544 in. 8568 in. 8592 in. 8616 in. 8640 in. 8664 in. 8688 in. 8712 in. 8736 in. 8760 in. 8784 in. 8808 in. 8832 in. 8856 in. 8880 in. 8904 in. 8928 in. 8952 in. 8976 in. 9000 in. 9024 in. 9048 in. 9072 in. 9096 in. 9120 in. 9144 in. 9168 in. 9192 in. 9216 in. 9240 in. 9264 in. 9288 in. 9312 in. 9336 in. 9360 in. 9384 in. 9408 in. 9432 in. 9456 in. 9480 in. 9504 in. 9528 in. 9552 in. 9576 in. 9600 in. 9624 in. 9648 in. 9672 in. 9696 in. 9720 in. 9744 in. 9768 in. 9792 in. 9816 in. 9840 in. 9864 in. 9888 in. 9912 in. 9936 in. 9960 in. 9984 in. 10000 in

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NOTES:  
 1 VERIFY EXCAT LOCATION WITH ARCHITECT PRIOR TO CONSTRUCTION.

**FIRE ALARM SYSTEM RISER DIAGRAM**

**BATTERY SIZING CALCULATION** 1/8/2008

Claypool Building - Needles Center  
 MAIN FIRE ALARM CONTROL PANEL - NFS2-640

Quantity	Device Type	Model Number	Standby Current	Total Standby Current	Alarm Current	Total Alarm Current
1	NFS2-640	CPUZ-640	0.25000	0.25000	0.25000	0.25000
9	Control Relay	FRM-1	0.00020	0.00180	0.00020	0.00180
6	Duct Det	FSD-751PL	0.00030	0.00180	0.00030	0.00180
2	Monitor	FDM-1	0.00075	0.00150	0.00075	0.00150
2	Monitor	FMM-1	0.00030	0.00060	0.00030	0.00060
4	Pull Station	NBS-12LX	0.00030	0.00120	0.00030	0.00120
5	Smoke Det	FSP-851	0.00036	0.00180	0.00036	0.00180
1	Strobe	ZRS-24MCW (15cd)	0.00000	0.00000	0.06000	0.06000
1	ANN	FDU-80	0.06430	0.06430	0.06430	0.06430
7	Relay	FR-1 (Shutdown)	0.00000	0.01500	0.00000	0.10500

Standby Load: 0.323 Alarm Load: 0.529  
 Standby Time: 24 Hours Alarm Time: 5 Minutes  
 Total Standby Load: 7.75 Amp\*Hours Total Alarm Load: 0.04 Amp\*Hours

Batteries Provided: (2) PS-12120 Available Battery: 9.60 A.H.  
 Battery Size: 12.00 A.H. Load (ALM + STBY): 7.80 A.H.  
 De-Rated Size(80%): 9.60 A.H. Spare Capacity: 1.80 A.H.

**BATTERY SIZING CALCULATION** 4/28/2008

Claypool Building - Needles Center  
 POWER SUPPLY - FCPS-2458

Quantity	Device Type	Model Number	Standby Current	Total Standby Current	Alarm Current	Total Alarm Current
1	FCPS-2458	FCPS-2458	0.06500	0.06500	0.14500	0.14500
9	Strobe	ZRS-24MCW (75cd)	0.00000	0.00000	0.18400	1.65600
1	Strobe	ZRS-24MCWH (135cd)	0.00000	0.00000	0.35000	1.40000
15	Strobe	ZRS-24MCW (15cd)	0.00000	0.00000	0.06000	0.90000
6	Strobe	ZRS-24MCW (30cd)	0.00000	0.00000	0.09200	0.55200
1	Strobe	ZRS-24MCW (75cd)	0.00000	0.00000	0.16500	0.16500

Standby Load: 0.065 Alarm Load: 4.818  
 Standby Time: 24 Hours Alarm Time: 5 Minutes  
 Total Standby Load: 1.56 Amp\*Hours Total Alarm Load: 0.40 Amp\*Hours

Batteries Provided: (2) PS-1270 Available Battery: 5.60 A.H.  
 Battery Size: 7.00 A.H. Load (ALM + STBY): 1.96 A.H.  
 De-Rated Size(80%): 5.60 A.H. Spare Capacity: 3.64 A.H.

**VOLTAGE DROP CALCULATION** 01/08/08

Claypool Building - Needles Center  
 MAIN CONTROL PANEL - FACP

DEVI	SIGNAL	SIGNAL	SIGNAL	SIGNAL	QTY	TOTAL
CE	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT		
(AMPS)	S1	TURN ON	RSST	SPARE		
	QTY	CURR.	QTY	CURR.	QTY	CURR.
Strobe						
ZRS-24MCW (15cd)	1	0.060	0.000	0.000	1	0.060
TOTAL CURRENT ON CIRCUIT		0.060 AMPS	0.000 AMPS	0.000 AMPS		0.060 AMPS
TOTAL WIRE LENGTH		100 FT.	0 FT.	0 FT.		100 FT.
% VOLTAGE DROP		0.08 %	0.00 %	0.00 %		0.08 %
WIRE SIZE		12 AWG	12 AWG	12 AWG		12 AWG
CIRCULAR MILS		6530 CIRC MILS	6530 CIRC MILS	6530 CIRC MILS		6530 CIRC MILS
CIRCUIT LOCATION		MEZZANINE				
CIRC. MILS		DISTANCE X TOTAL CURR. X 21.6				
18 AWG = 1620		VOLTAGE DROP = CIRCULAR MILS				
16 AWG = 2590		CIRCULAR MILS				
14 AWG = 4110		VOLTAGE DROP X 100				
12 AWG = 6530		VOLTAGE				

**VOLTAGE DROP CALCULATION** 04/28/08

Claypool Building - Needles Center  
 POWER SUPPLY #RPS 1

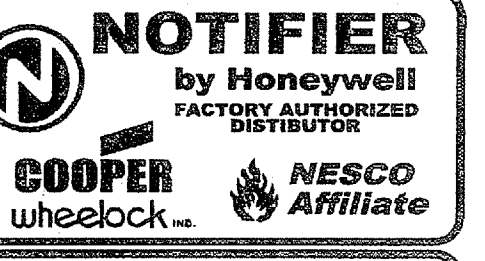
DEVI	SIGNAL	SIGNAL	SIGNAL	SIGNAL	QTY	TOTAL
CE	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT		
(AMPS)	S1	S2	S3	S4		
	QTY	CURR.	QTY	CURR.	QTY	CURR.
Strobe						
ZRS-24MCW (75cd)	2	0.368	6	1.104	1	0.184
ZRS-24MCWH (135cd)	1	0.350	0.000	0.000	2	0.700
Strobe						
ZRS-24MCW (15cd)	2	0.120	5	0.300	2	0.360
ZRS-24MCW (30cd)	3	0.276	0.000	0.000	3	0.828
ZRS-24MCW (75cd)	1	0.165	0.000	0.000	1	0.165
TOTAL CURRENT ON CIRCUIT		0.764 AMPS	1.404 AMPS	1.096 AMPS		1.409 AMPS
TOTAL WIRE LENGTH		260 FT.	305 FT.	310 FT.		365 FT.
% VOLTAGE DROP		2.74 %	5.90 %	4.68 %		7.09 %
WIRE SIZE		12 AWG	12 AWG	12 AWG		12 AWG
CIRCULAR MILS		6530 CIRC MILS	6530 CIRC MILS	6530 CIRC MILS		6530 CIRC MILS
CIRCUIT LOCATION		BASEMENT	BASEMENT	MEZZANINE		
CIRC. MILS		DISTANCE X TOTAL CURR. X 21.6				
18 AWG = 1620		VOLTAGE DROP = CIRCULAR MILS				
16 AWG = 2590		CIRCULAR MILS				
14 AWG = 4110		VOLTAGE DROP X 100				
12 AWG = 6530		VOLTAGE				

REFER TO FLOOR PLANS FOR DEVICE LOCATION AND QUANTITIES

COMPLETE AUTOMATIC FIRE ALARM SYSTEM PLAN SUBMITTAL PER DSA POLICY 95-03(FLS)



**Pyro-Comm Systems, Inc.**  
 Fire, Life Safety and Security System Design and Installation  
 C-10 #612153 ACO 3231  
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 Carlsbad, CA 92008  
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STATE OF CALIFORNIA  
 LICENSED ELECTRICAL CONTRACTOR  
 C10-612153  
 EXP. 02-28-09

APPROVALS  
 RECEIVED  
 APR 28 2008  
 DM ELECTRIC INC.

ENGINEERING COMMENTS 04/28/08 JZ  
 ISSUED FOR PLAN CHECK 01/08/08 JZ  
 Rev Issued For Date By

Project: Claypool Building Reconstruction Palo Verde College, Needles  
 Palo Verde Community College District  
 725 W. Broadway St., Needles, CA 92385  
 W.O. #: 27656

Sheet Title: FIRE ALARM SYSTEM INFORMATION

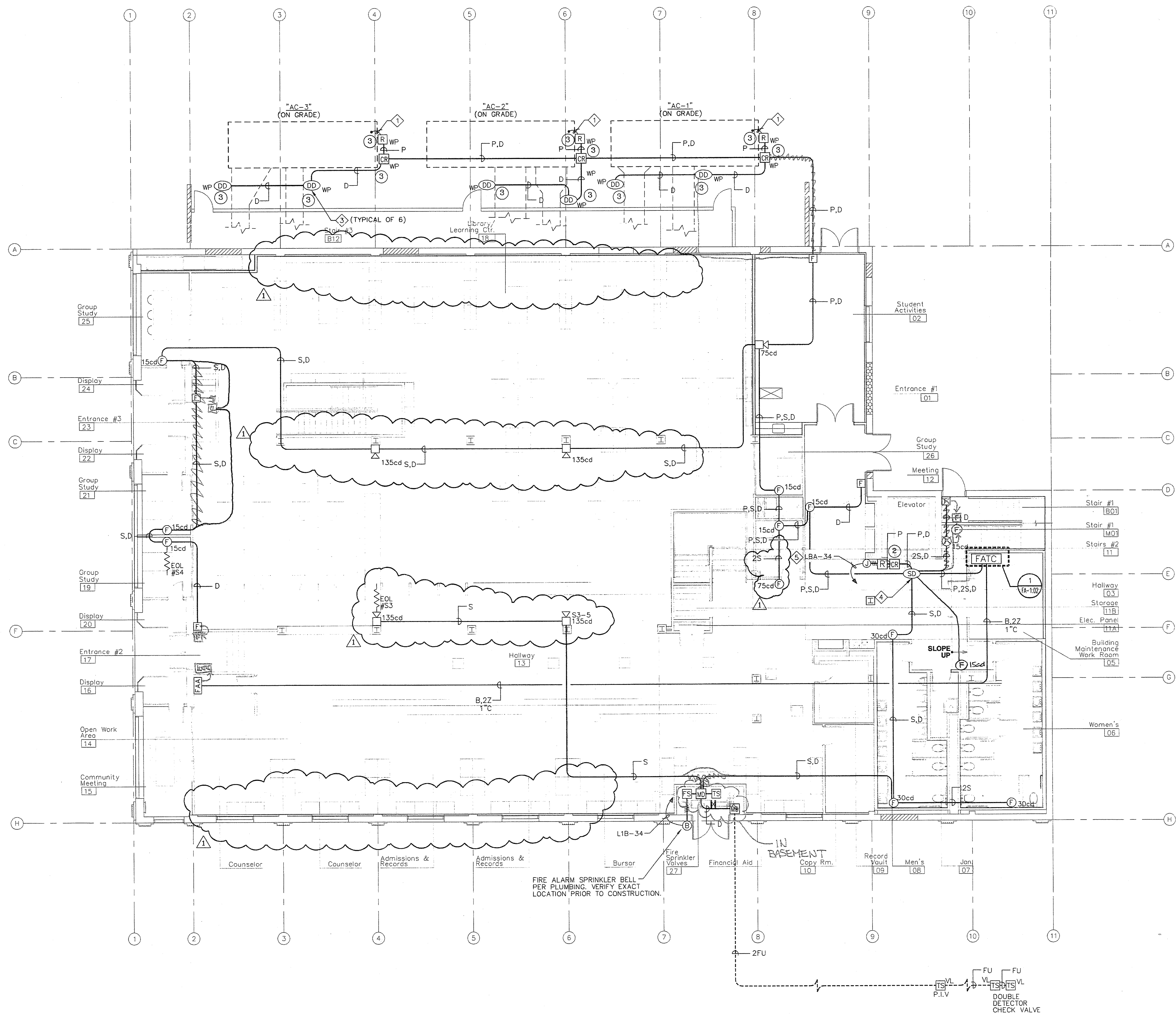
Drawn By: JZ  
 01/07/08  
 Cad File: M:\Claypool Building Reconstruction Palo Verde College Needles Center-#27656-FA-0.02 Calc. & Riser.dwg

Sheet Number: FA-0.02

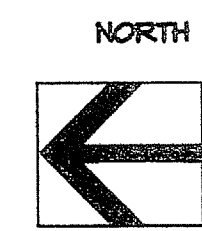
110562  
 APR 10 7 2011



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**FIRST FLOOR COMMUNICATION PLAN**  
SCALE: 1/8"=1'-0"



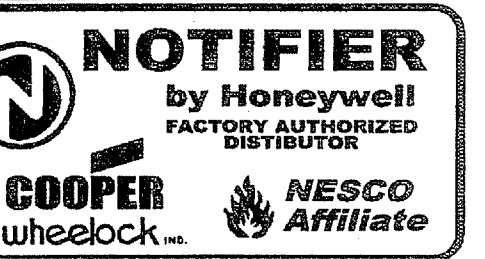
**SHEET NOTES**

- ① PROVIDE 1/2" C. TO UNIT CONTROL PANEL FOR SHUT DOWN.
- ② MOUNT DEVICES AT TOP OF ELEVATOR SHAFT.
- ③ PROVIDE PREFABRICATED WEATHER PROOF HOUSING FOR DUCT SMOKE DETECTORS. PROVIDE SHOP DRAWINGS FOR REVIEW PRIOR TO CONSTRUCTION.
- ④ PROVIDE SMOKE DETECTOR WITH RELAY BASE.
- ⑤ PROVIDE CONNECTION TO SMOKE BARRIER SYSTEM. REFER TO DETAIL 4, SHEET E4.2 FOR ADDITIONAL REQUIREMENTS.



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Signatures  
STATE OF CALIFORNIA  
LICENSED ELECTRICAL CONTRACTOR  
C10-612153  
EXP. 02-28-09

Approvals  
RECEIVED  
DM ELECTRONICS INC.

Rev	Issued For	Date	By
1	ENGINEERING COMMENTS	04/28/08 JZ	
2	ISSUED FOR PLAN CHECK	01/08/08 JZ	

Project:  
**Claypool Building Reconstruction Palo Verde College, Needles Center**  
Palo Verde Community College District  
725 W. Broadway St.  
Needles, CA 92385  
W.O. #: 27656

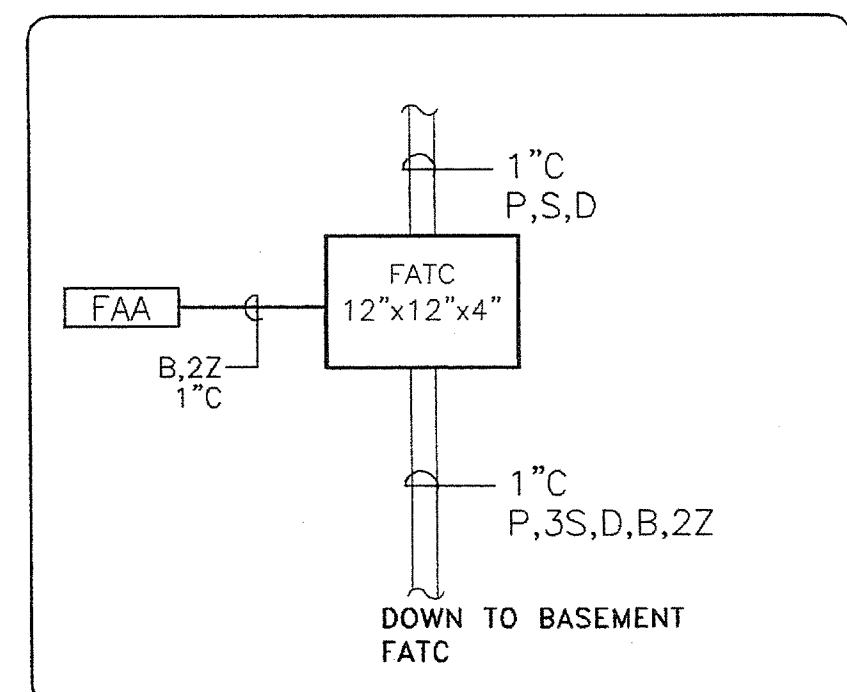
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**1ST FLOOR FIRE ALARM SYSTEM INFORMATION**

Drawn By:  
**JZ**  
01/07/08  
Cad File: McClaypool Building Reconstruction Palo Verde College, Needles Center-#27656-FA-102 1st fl.dwg

Sheet Number:  
**FA-1.02**

**SHEET NOTES:**

- ① ALL NEW CONDUITS TO BE 3/4" C.U.O.N
- ② TO DOOR CONTROL - F.B.O
- ③ WEATHERPROOF ENCLOSURE BY MECHANICAL/ELECTRICAL CONTRACTOR.



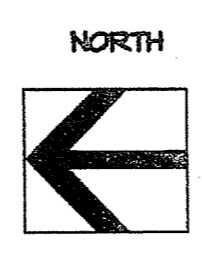
① REMOTE POWER SUPPLY #1 DETAIL  
SCALE: NONE

110562  
DATE: APR 07 2011

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MEZZANINE COMMUNICATION PLAN  
SCALE: 1/8"=1'-0"



SHEET NOTES:  
① ALL NEW CONDUITS TO BE 3/4" U.O.N

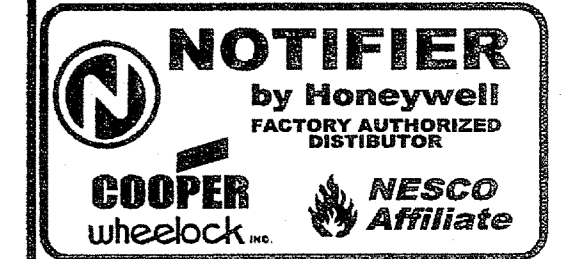


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Signatures  
STATE OF CALIFORNIA  
LICENSED ELECTRICAL CONTRACTOR  
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EXP. 02-26-09

Approvals  
**RECEIVED**  
DM ELECTRIC INC.

Rev	Issued For	Date	By

Project  
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Palo Verde Community College District  
725 W. Broadway St.  
Needles, CA 92363  
W.O. #: 27656

Sheet Title:  
**Mezzanine Floor FIRE ALARM SYSTEM INFORMATION**

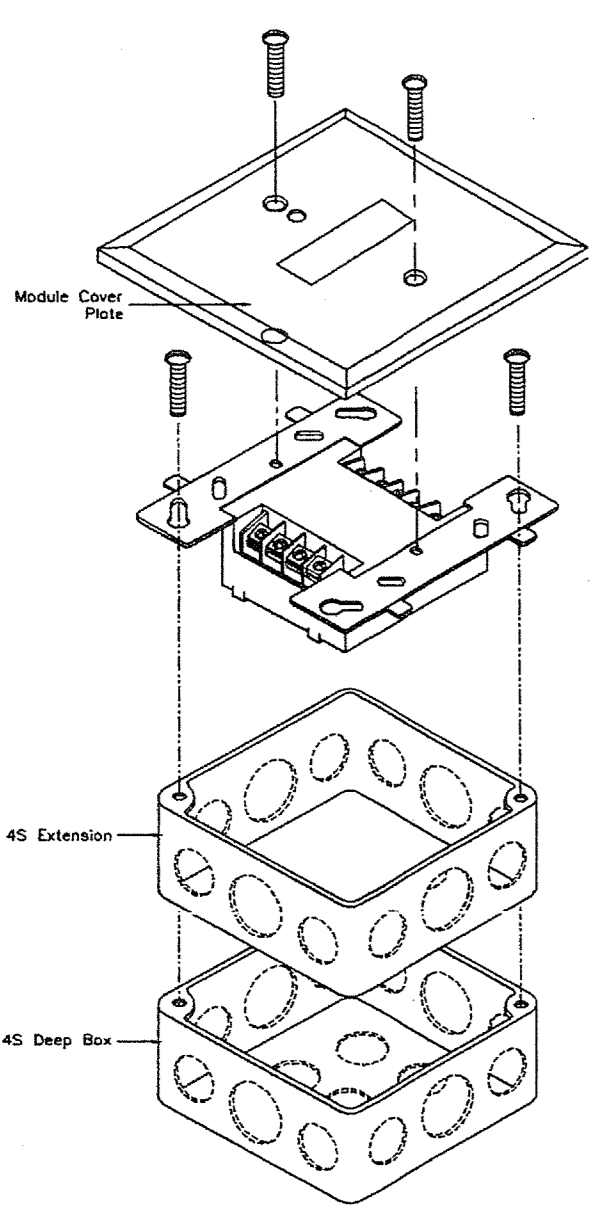
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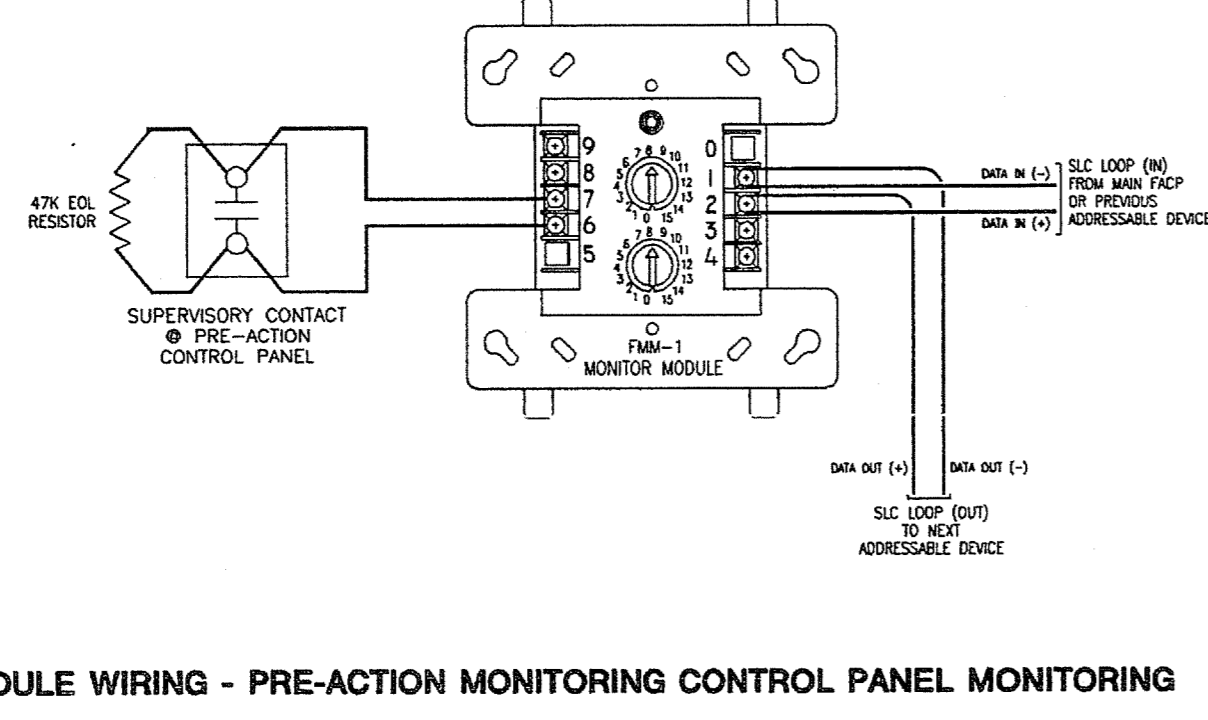
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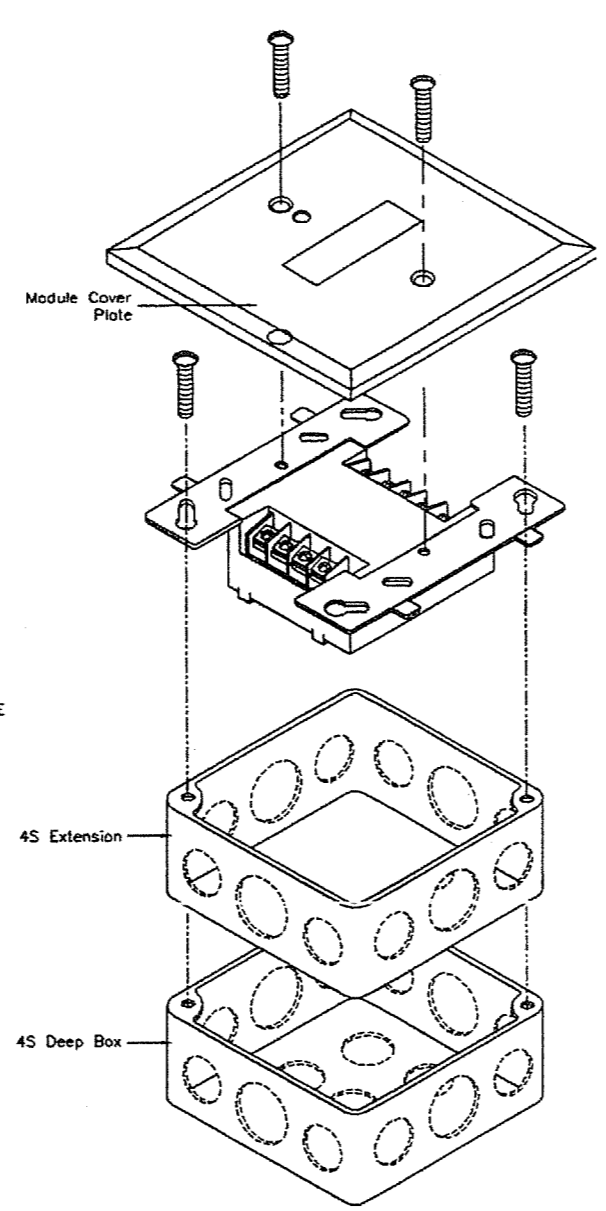
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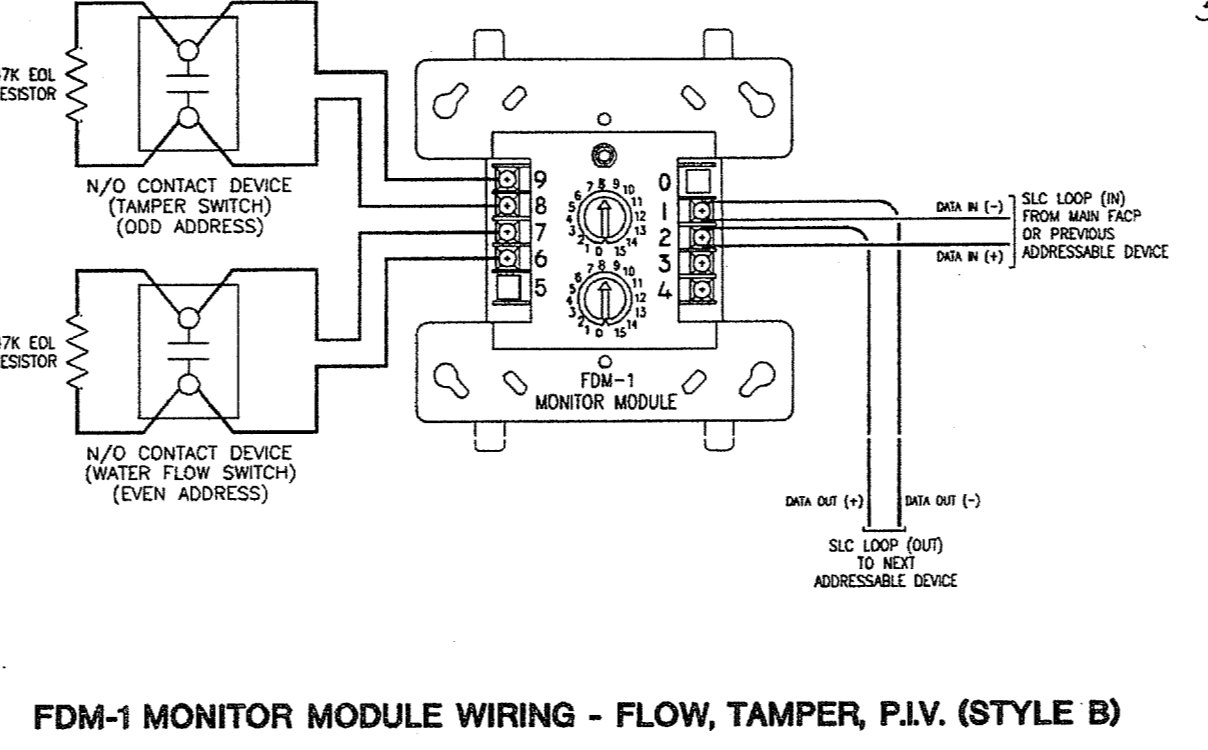
**FMM-1 SPECIFICATIONS:**  
 Normal Operating Voltage: 15 to 32 VDC  
 Maximum Current: 5.1 mA (LED Rating)  
 Average Operating Current: 400  $\mu$ A (LED Rating)  
 (E) Resistance: 47K  $\Omega$   
 Temperature Range: 32°F to 122°F (0°C to 49°C)  
 Humidity Range: 10% to 95% non-condensing  
 Shock Requirements: 4S DEEP BOX



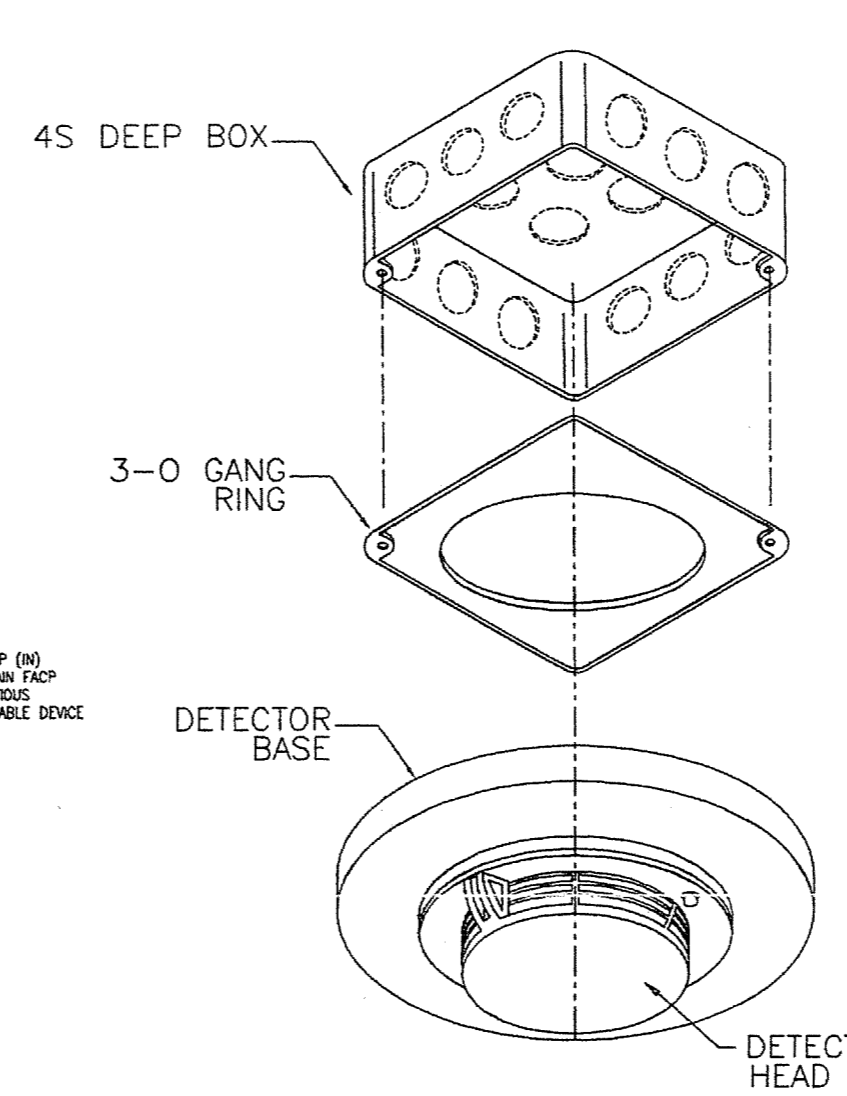
**FMM-1 MONITOR MODULE WIRING - PRE-ACTION MONITORING CONTROL PANEL MONITORING**



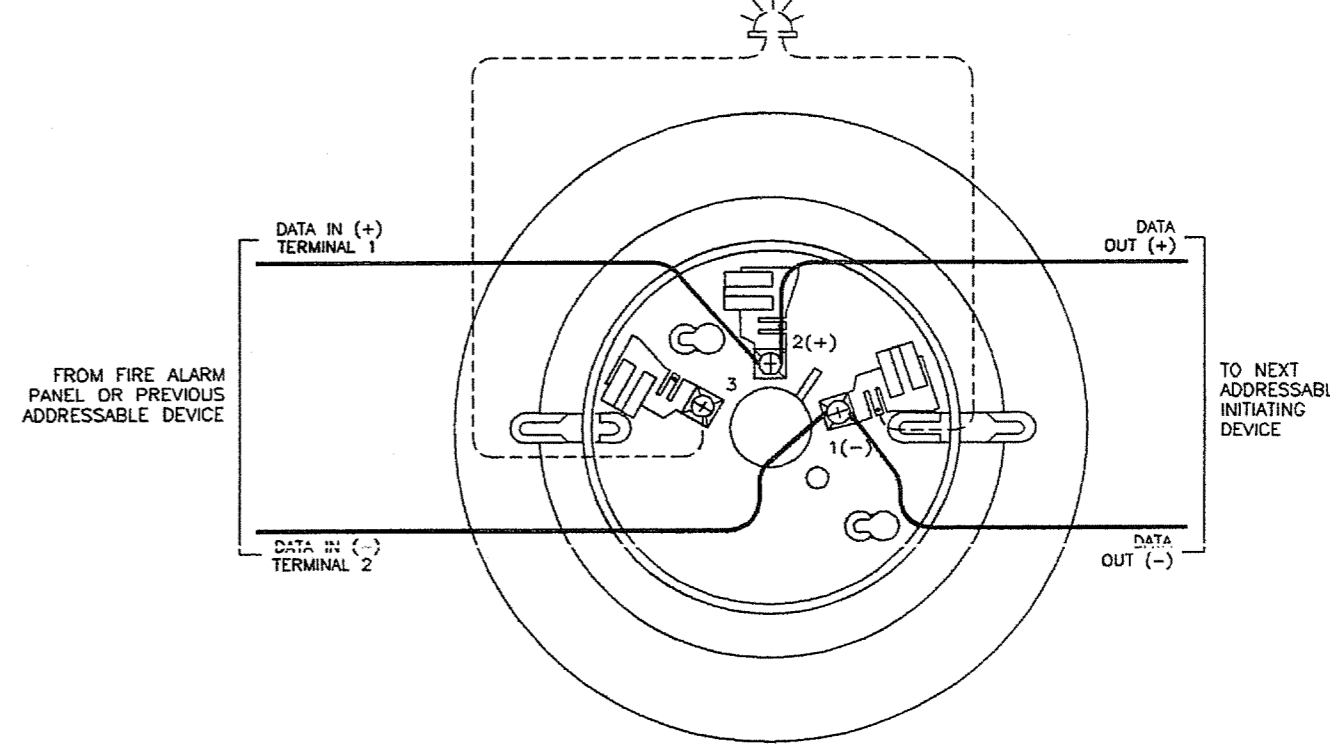
**FDM-1 SPECIFICATIONS:**  
 Normal Operating Voltage: 15 to 32 VDC  
 Maximum Current: 5.1 mA (LED Rating)  
 Average Operating Current: 400  $\mu$ A (LED Rating)  
 (E) Resistance: 47K  $\Omega$   
 Temperature Range: 32°F to 122°F (0°C to 49°C)  
 Humidity Range: 10% to 95% non-condensing  
 Shock Requirements: 4S DEEP BOX



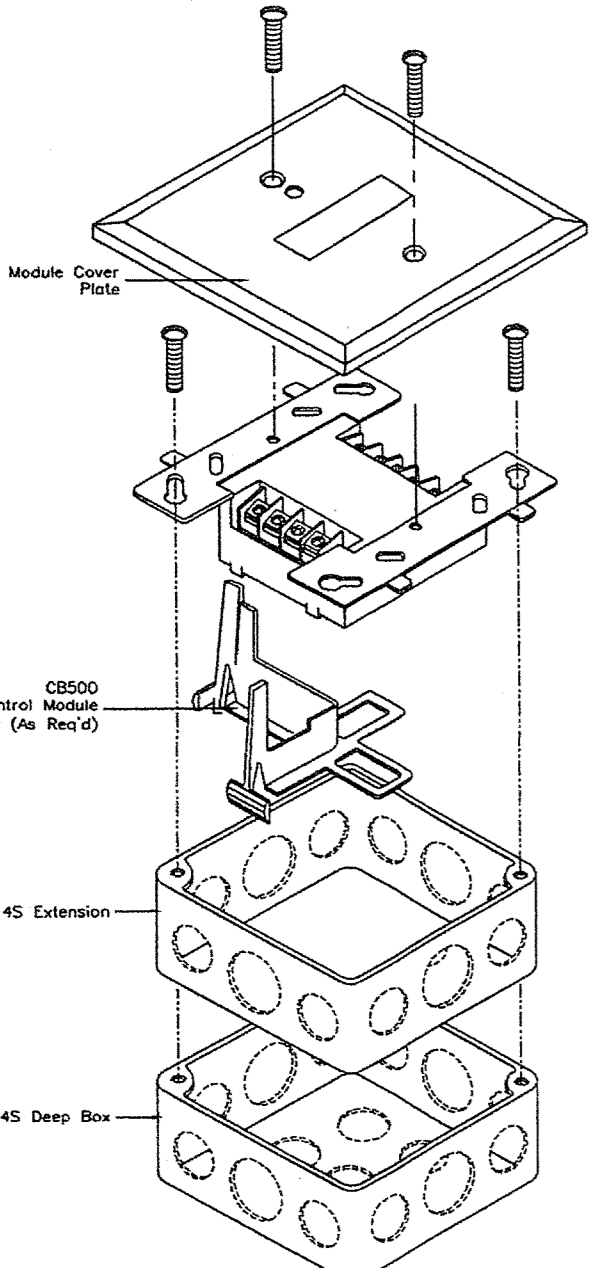
**FDM-1 MONITOR MODULE WIRING - FLOW, TAMPER, P.I.V. (STYLE B)**



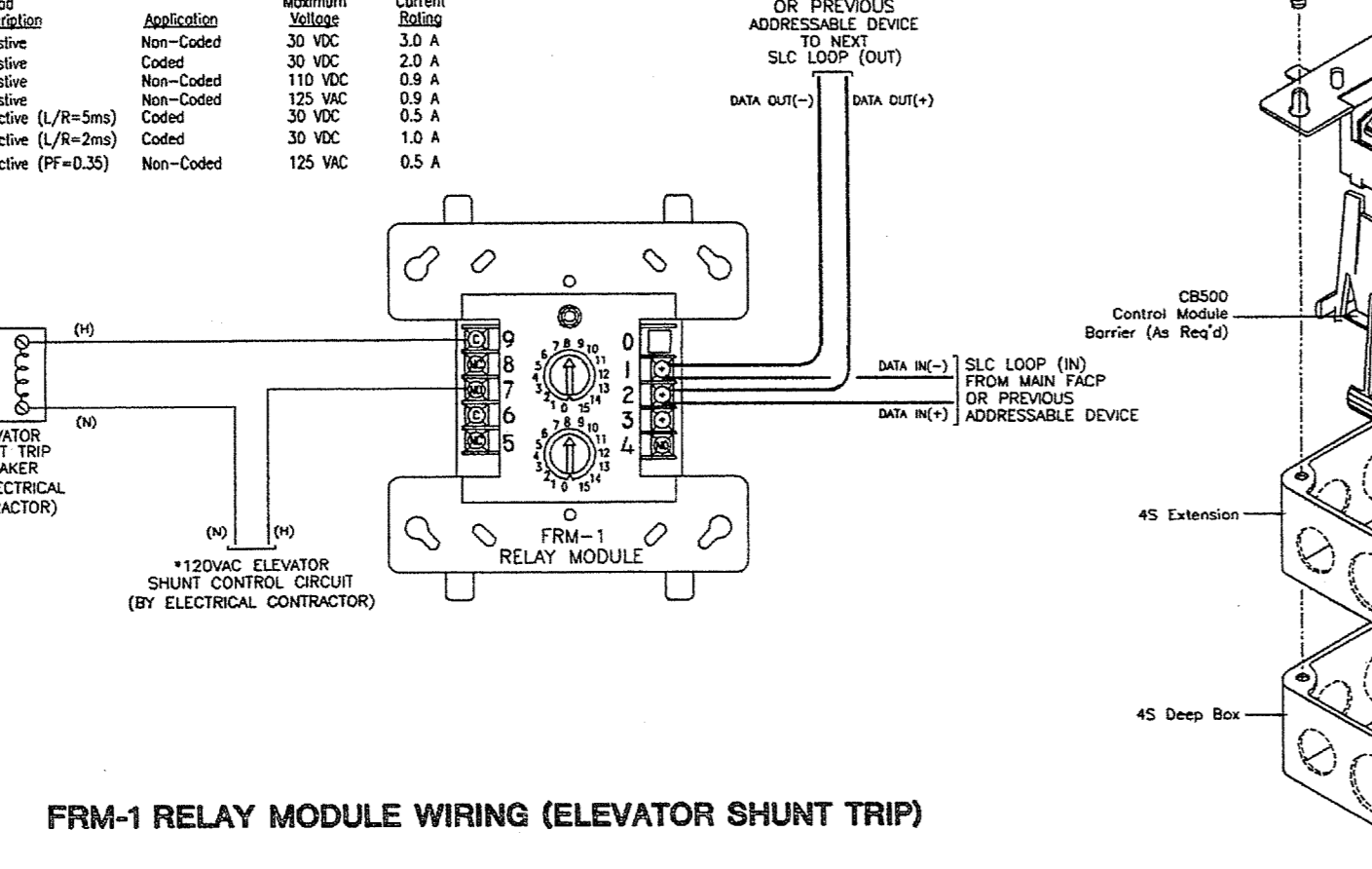
**NOTICE - DETECTOR BASE:**  
 CSMA # 100-008-015  
 COMPLETE LAMP DETECTOR  
 FSD-751 - CSMA # 771-008-010  
 FSD-751/14 - CSMA # 771-008-016  
 FSD-751/17 - CSMA # 771-008-012  
 FSD-751 - CSMA # 771-008-009



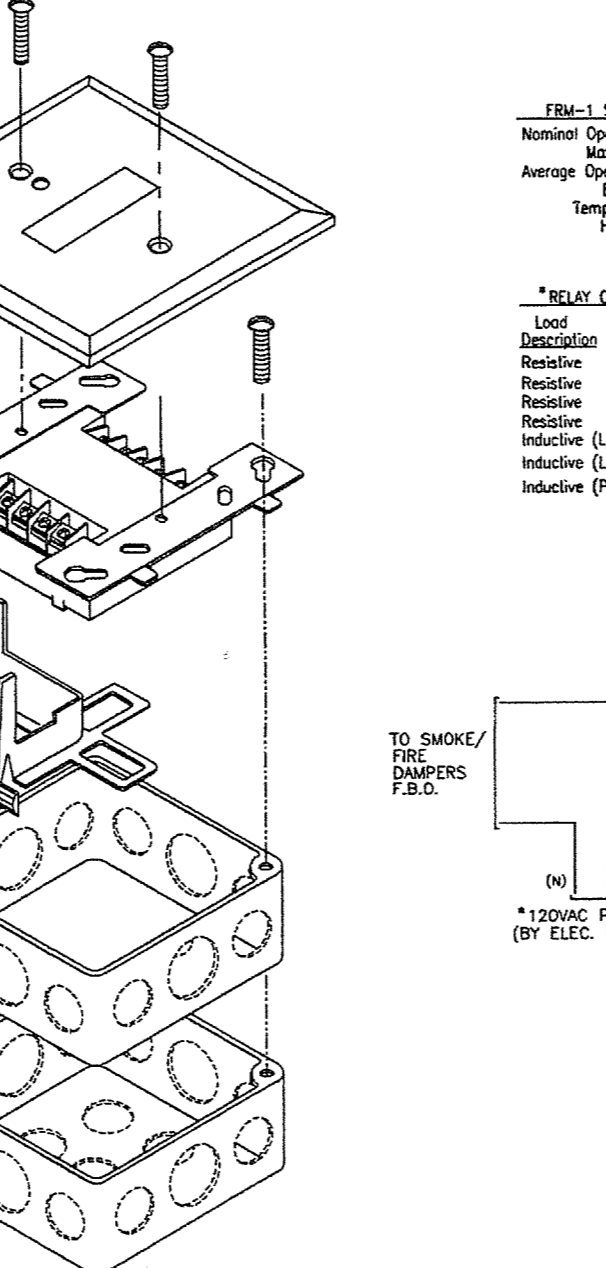
**B710LP ADDRESSABLE SMOKE/HEAT DETECTOR BASE WIRING**



**FRM-1 SPECIFICATIONS:**  
 Normal Operating Voltage: 15 to 32 VDC  
 Maximum Current: 5.1 mA (LED Rating)  
 Average Operating Current: 200  $\mu$ A (LED Rating)  
 (E) Resistance: 47K  $\Omega$   
 Temperature Range: 32°F to 122°F (0°C to 49°C)  
 Humidity Range: 10% to 95% non-condensing



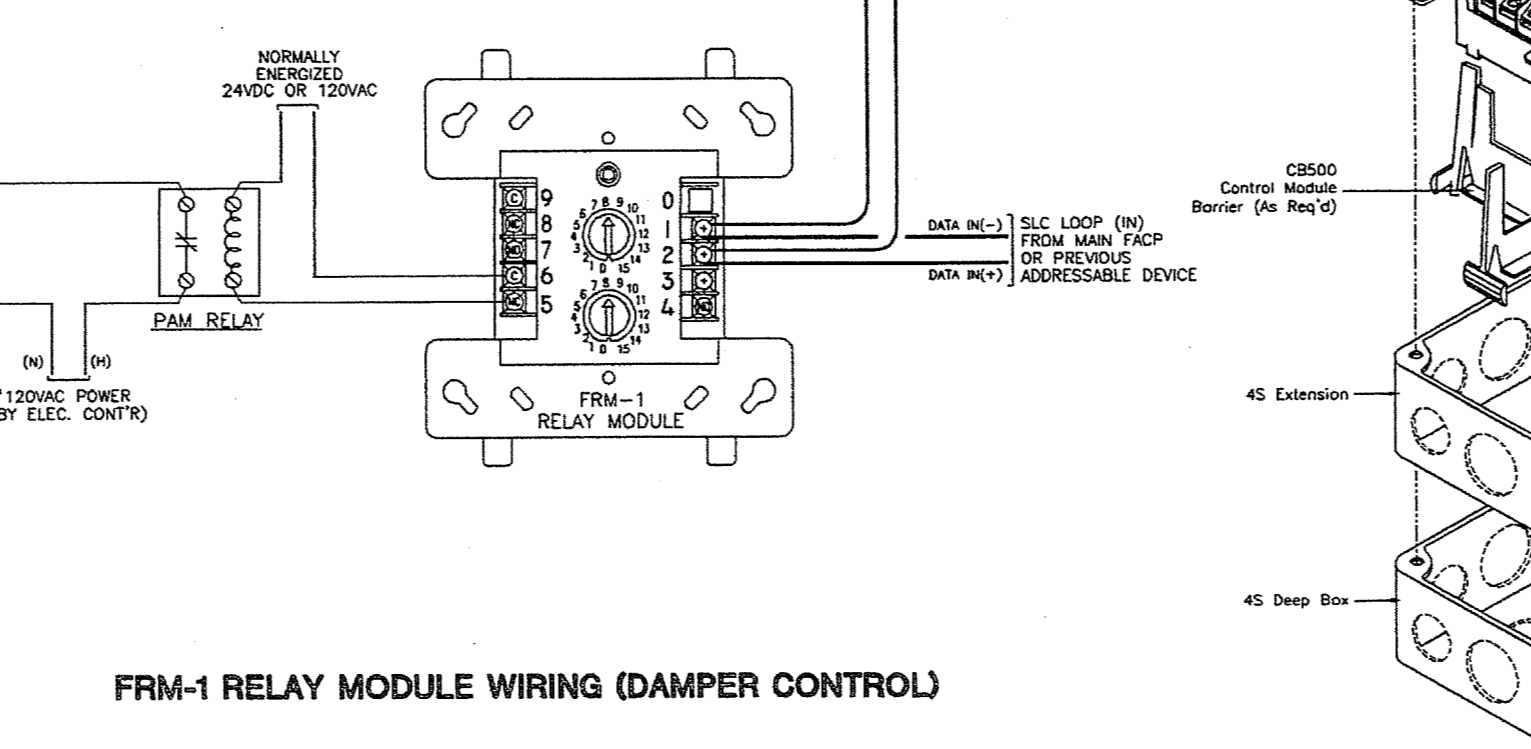
**FRM-1 RELAY MODULE WIRING (ELEVATOR SHUNT TRIP)**



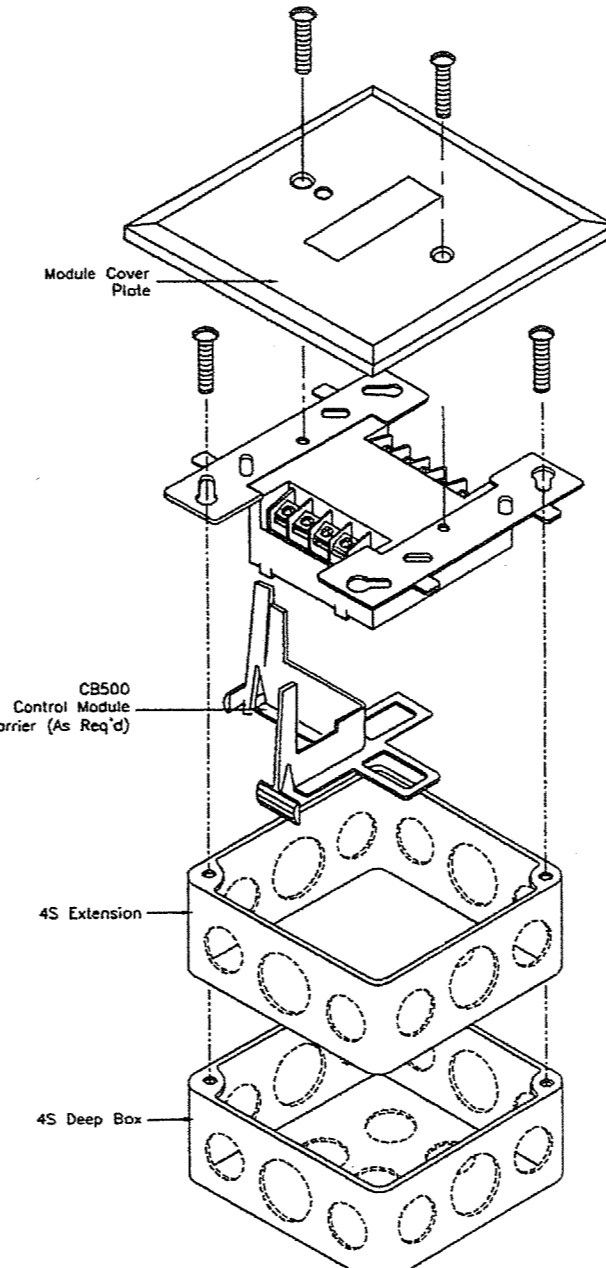
**FRM-1 SPECIFICATIONS:**  
 Normal Operating Voltage: 15 to 32 VDC  
 Maximum Current: 5.1 mA (LED Rating)  
 Average Operating Current: 200  $\mu$ A (LED Rating)  
 (E) Resistance: 47K  $\Omega$   
 Temperature Range: 32°F to 122°F (0°C to 49°C)  
 Humidity Range: 10% to 95% non-condensing

**\*RELAY CONTACT MATRIX:**

Load	Application	Maximum Voltage	Maximum Current
Resistive	Non-Code	30 VDC	3.0 A
Resistive	Code	30 VDC	2.5 A
Resistive	Non-Code	115 VAC	0.5 A
Resistive	Code	115 VAC	0.5 A
Inductive (I/R-2ms)	Code	30 VDC	0.5 A
Inductive (I/R-2ms)	Non-Code	30 VDC	1.0 A
Inductive (I/R-33ms)	Code	125 VAC	0.5 A
Inductive (I/R-33ms)	Non-Code	125 VAC	0.5 A



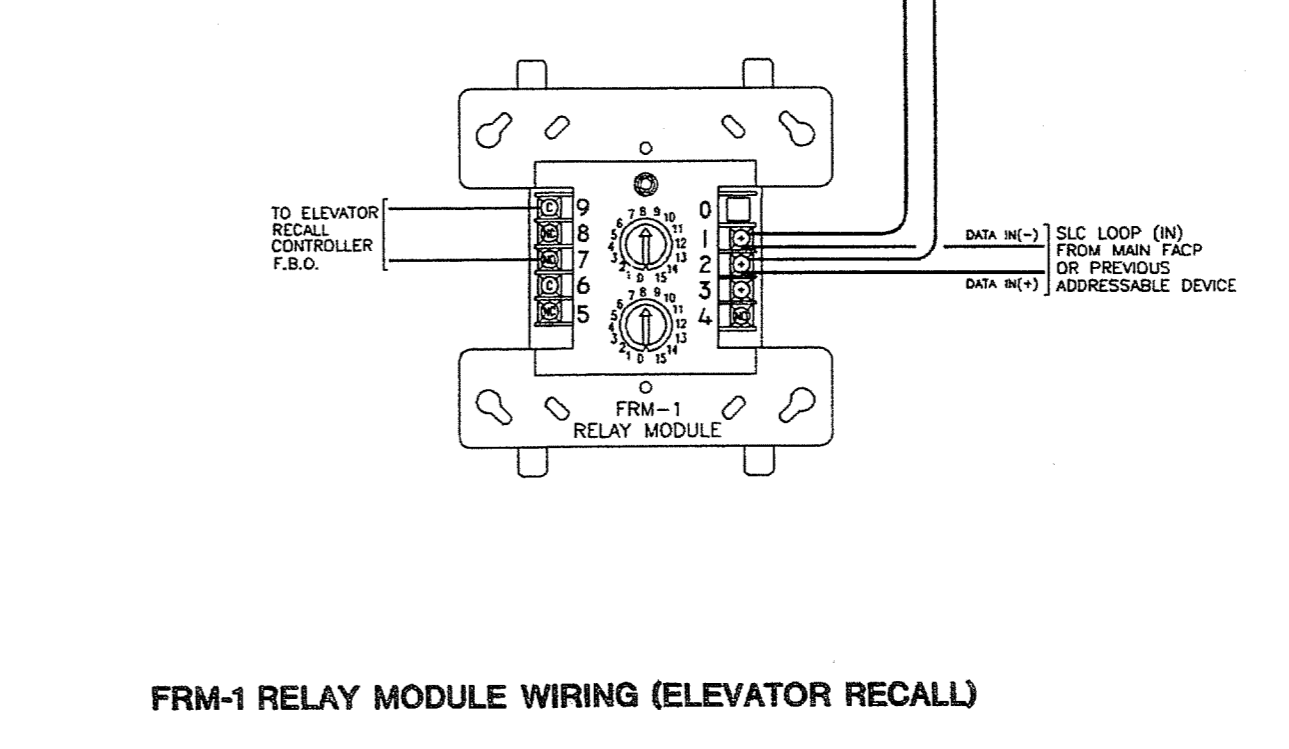
**FRM-1 RELAY MODULE WIRING (DAMPER CONTROL)**



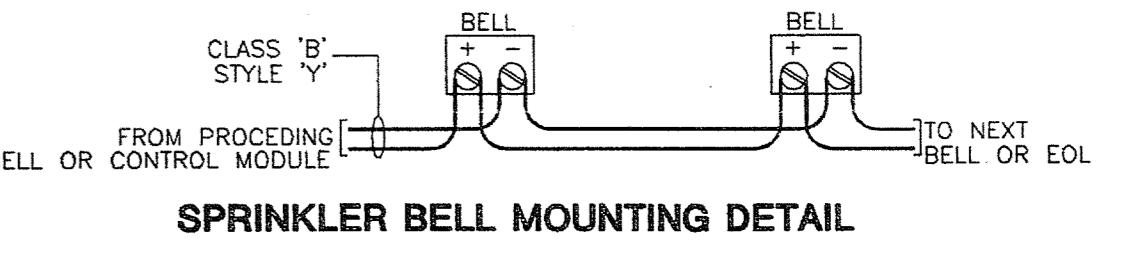
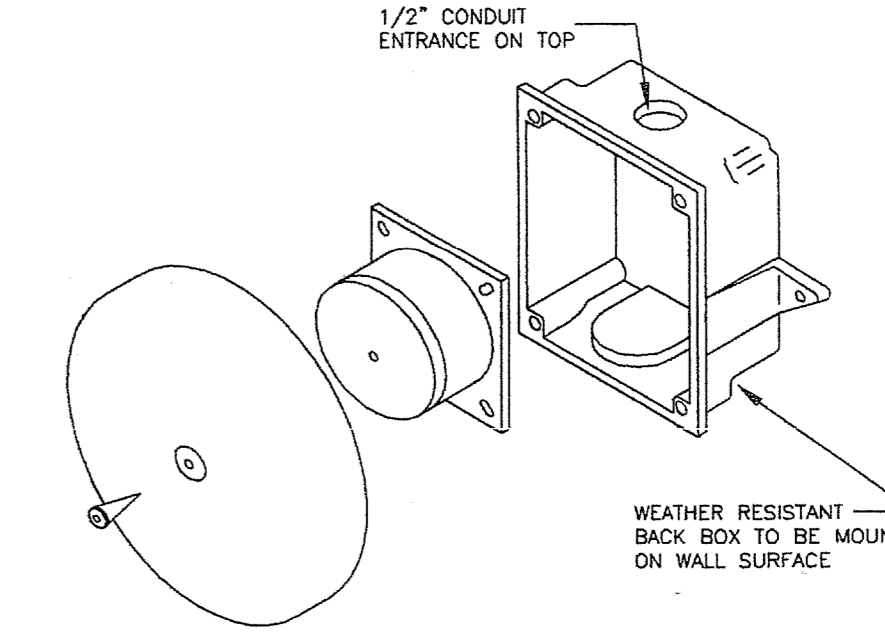
**FRM-1 SPECIFICATIONS:**  
 Normal Operating Voltage: 15 to 32 VDC  
 Maximum Current: 5.1 mA (LED Rating)  
 Average Operating Current: 200  $\mu$ A (LED Rating)  
 (E) Resistance: 47K  $\Omega$   
 Temperature Range: 32°F to 122°F (0°C to 49°C)  
 Humidity Range: 10% to 95% non-condensing

**\*RELAY CONTACT MATRIX:**

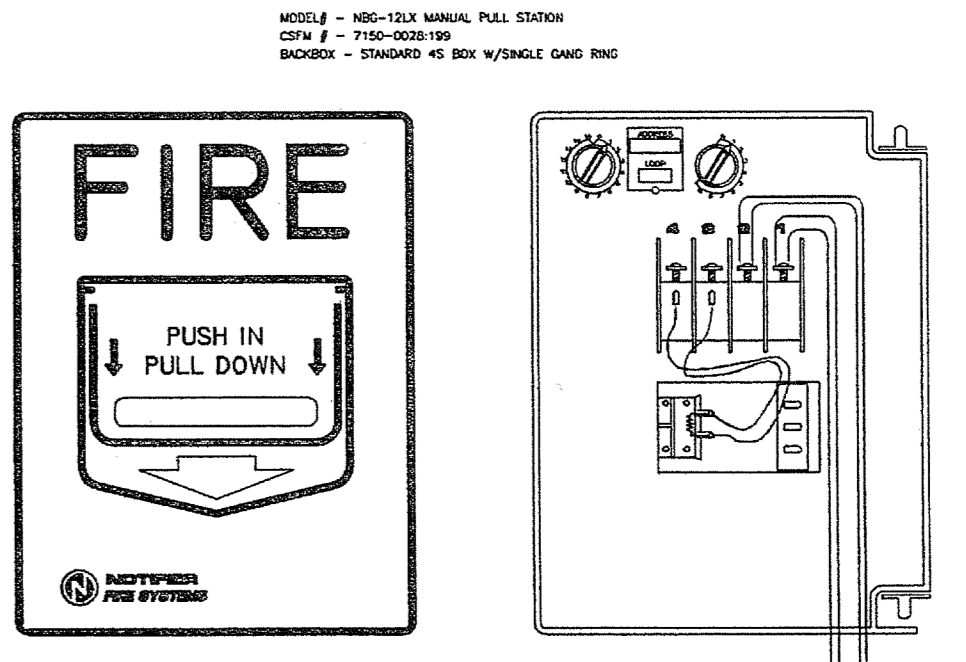
Load	Application	Maximum Voltage	Maximum Current
Resistive	Non-Code	30 VDC	3.0 A
Resistive	Code	30 VDC	2.5 A
Resistive	Non-Code	115 VAC	0.5 A
Resistive	Code	115 VAC	0.5 A
Inductive (I/R-2ms)	Code	30 VDC	0.5 A
Inductive (I/R-2ms)	Non-Code	30 VDC	1.0 A
Inductive (I/R-33ms)	Code	125 VAC	0.5 A
Inductive (I/R-33ms)	Non-Code	125 VAC	0.5 A



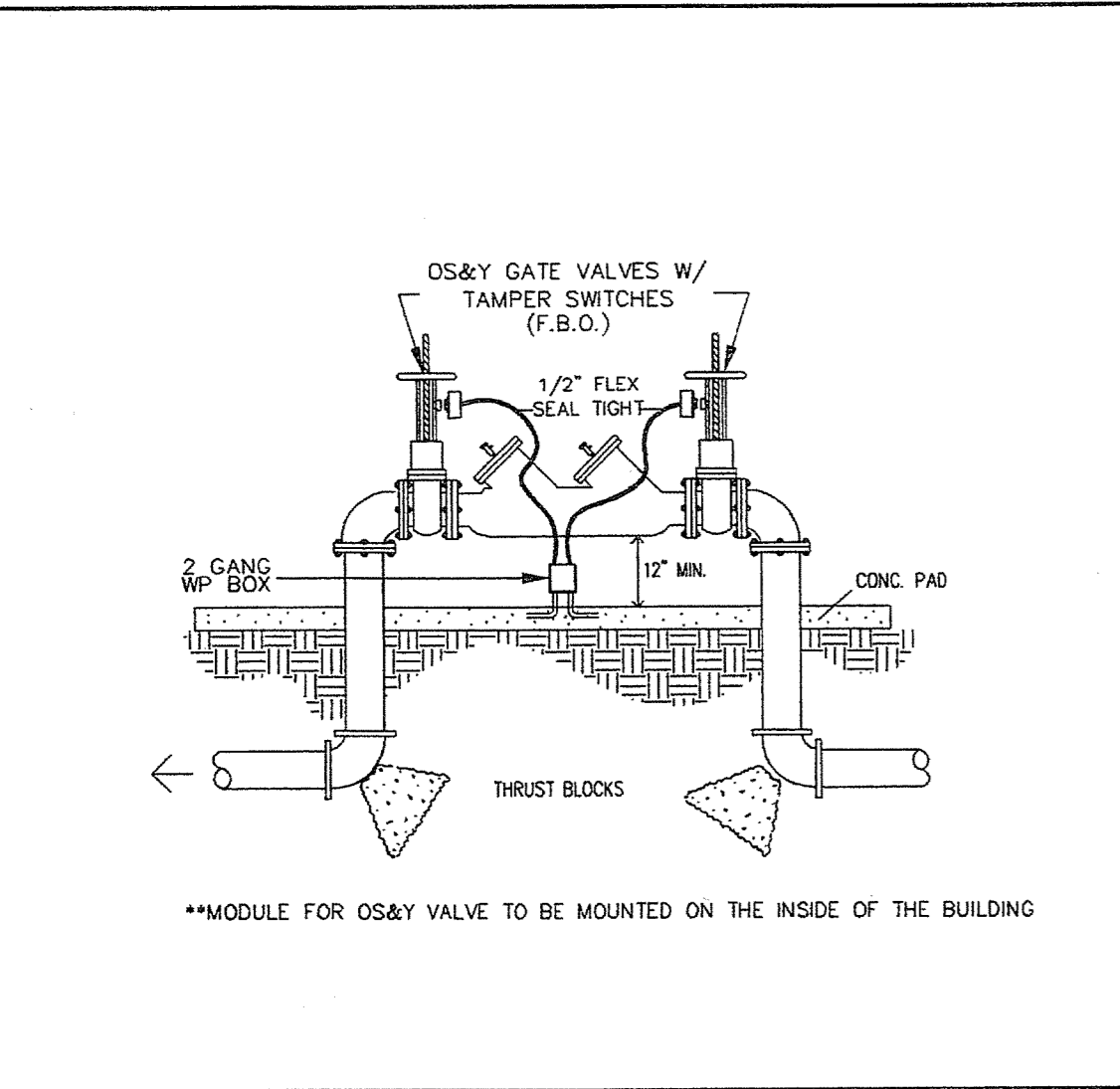
**FRM-1 RELAY MODULE WIRING (ELEVATOR RECALL)**



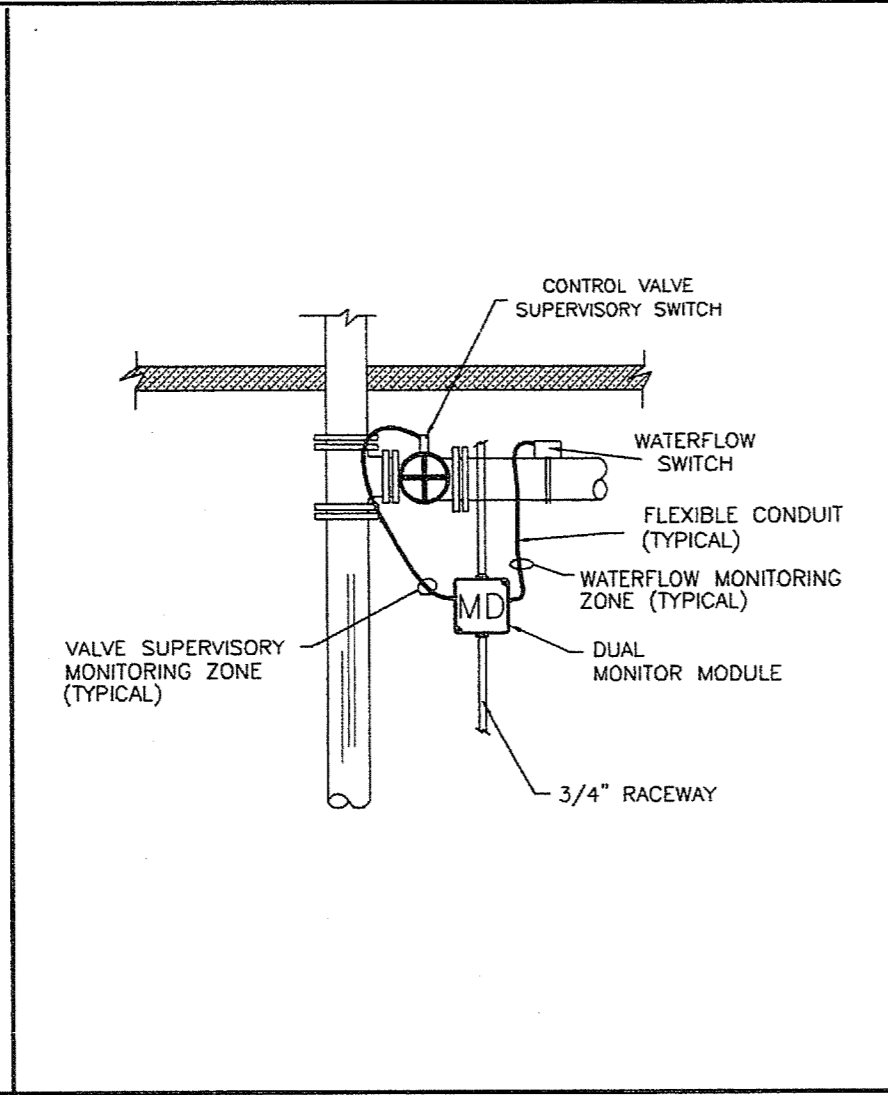
**SPRINKLER BELL MOUNTING DETAIL**



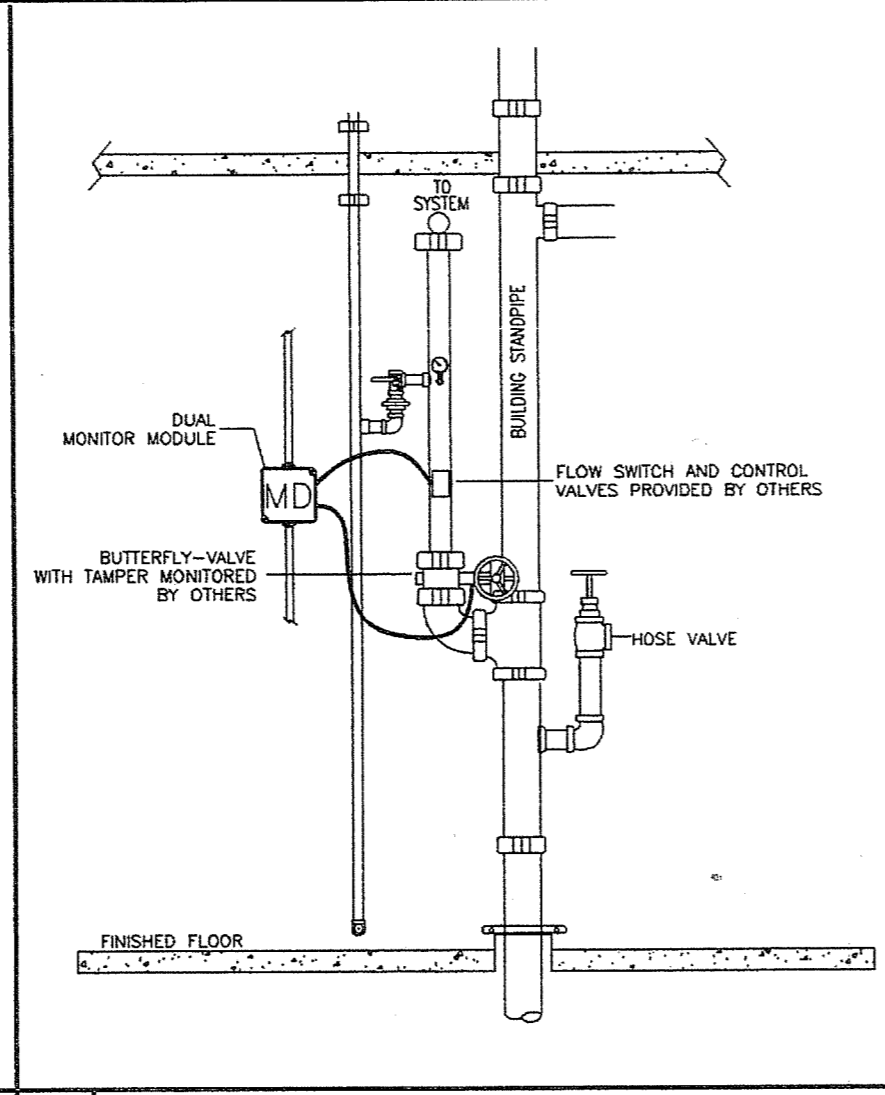
**FBG-12XL MANUAL STATION WIRING**



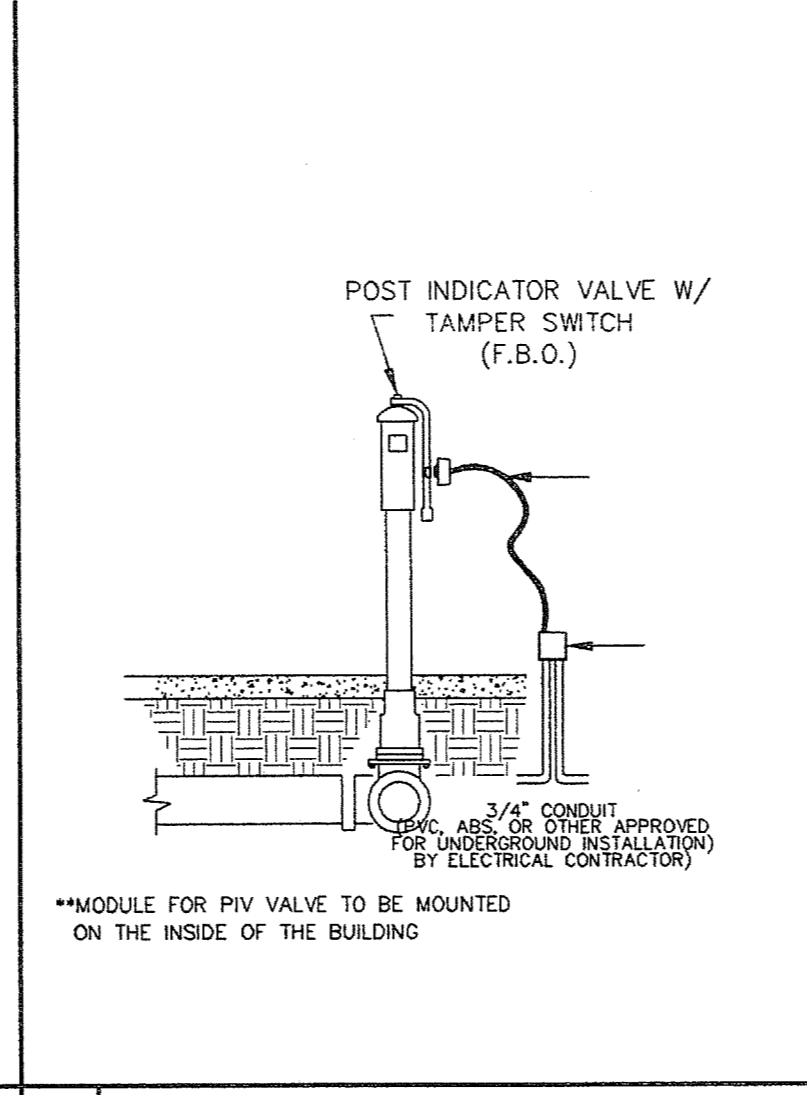
**OS & Y VALVE**



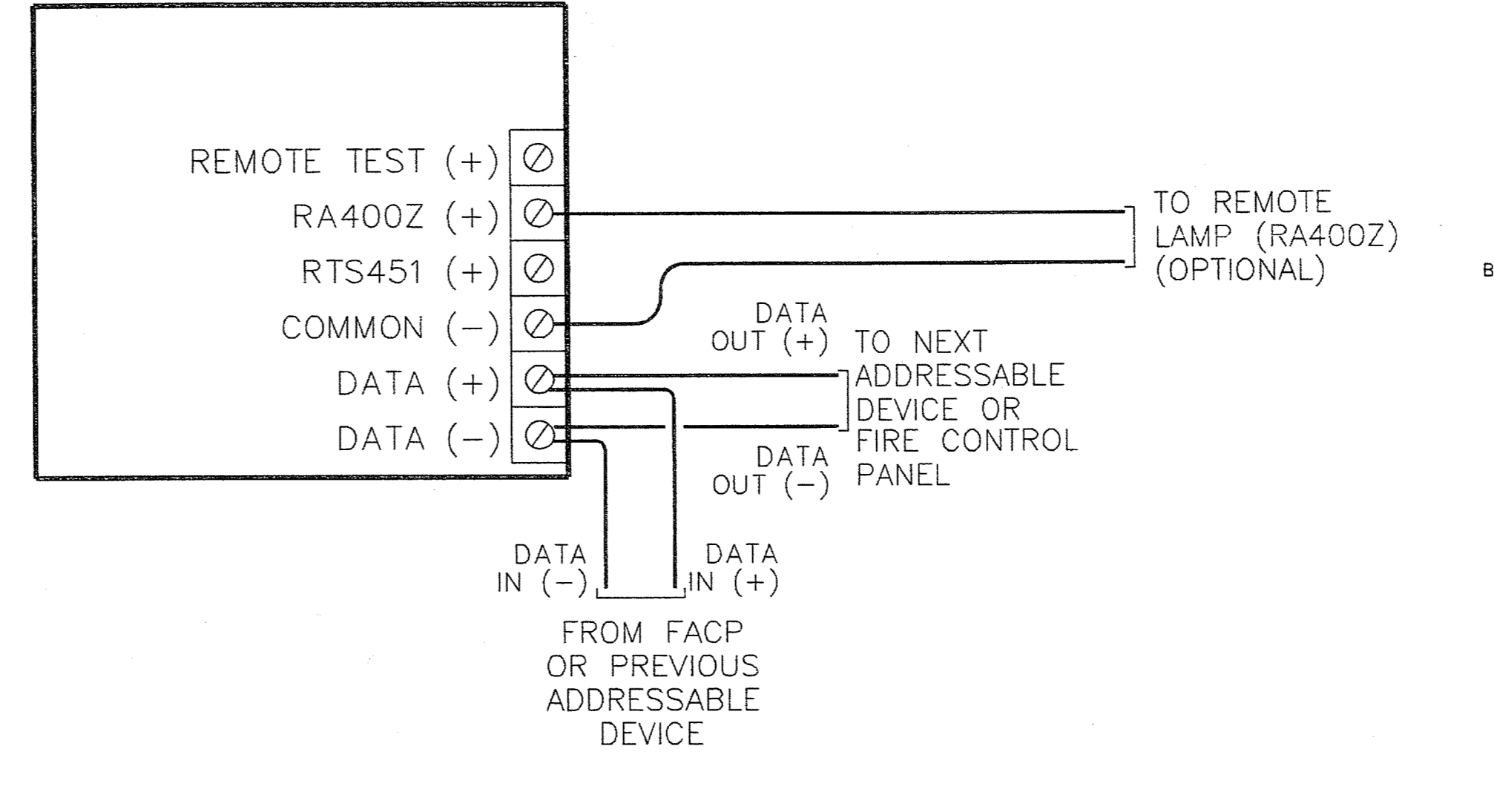
**HORIZONTAL RISER**



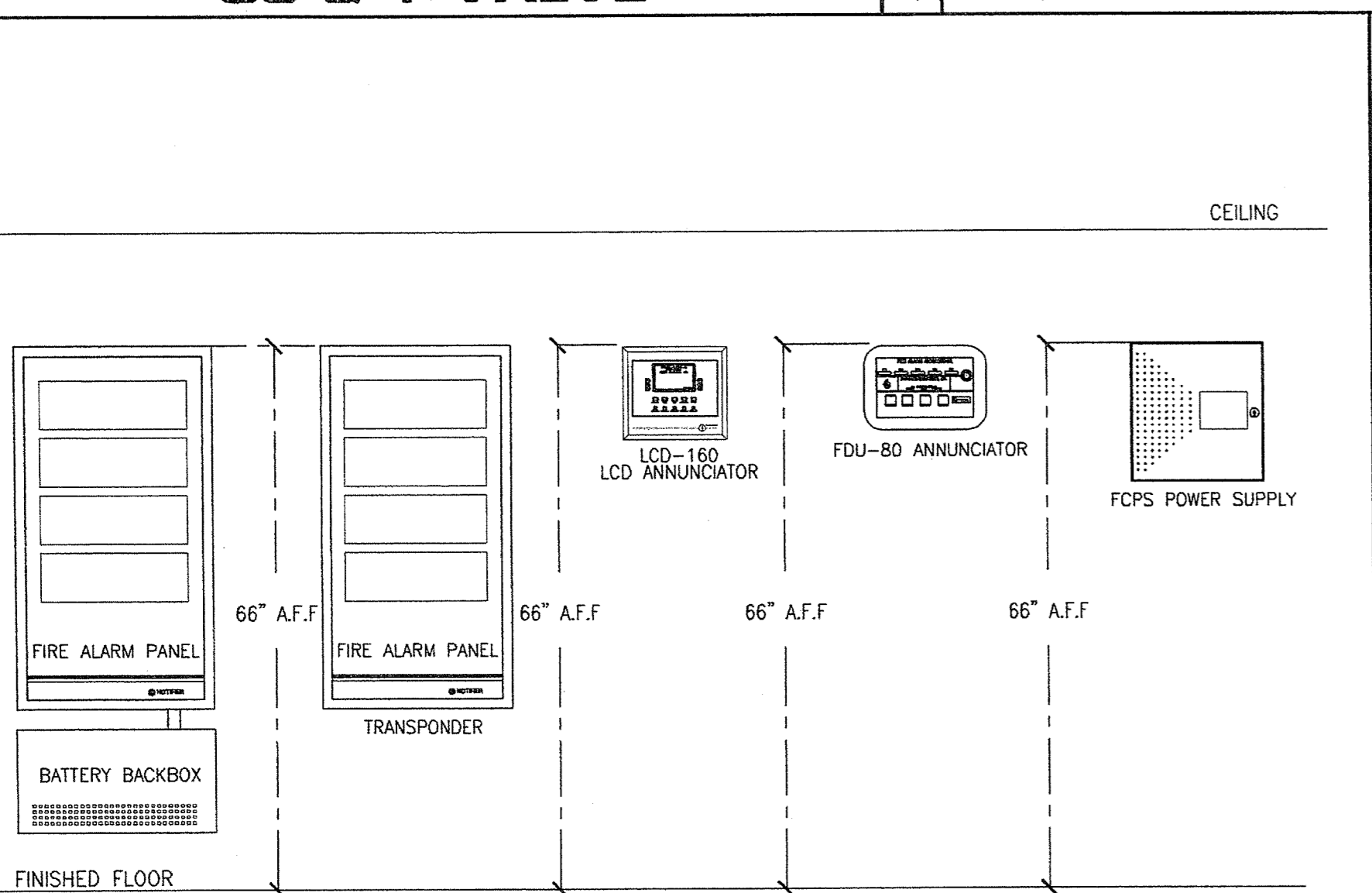
**VERTICAL RISER**



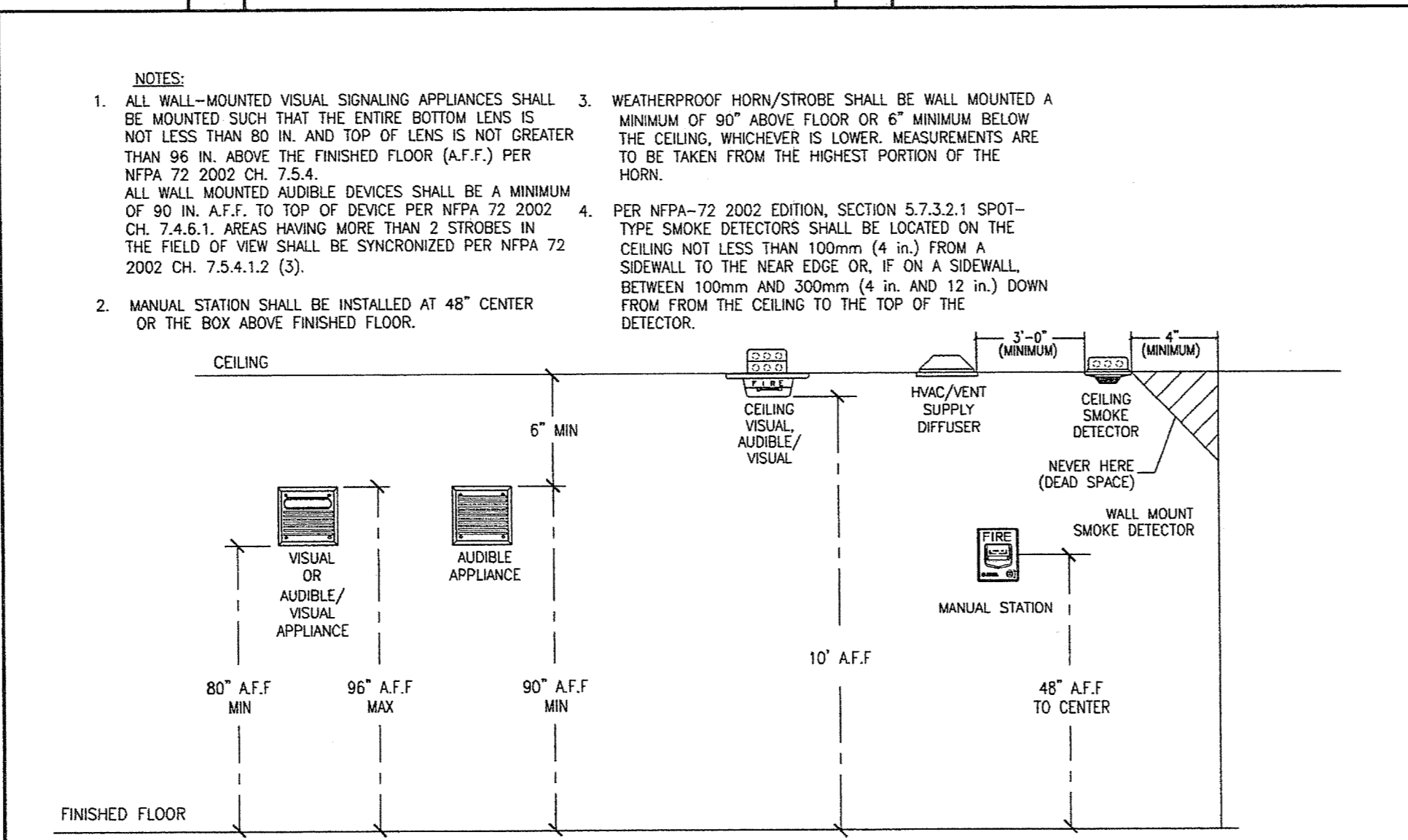
**PIV VALVE**



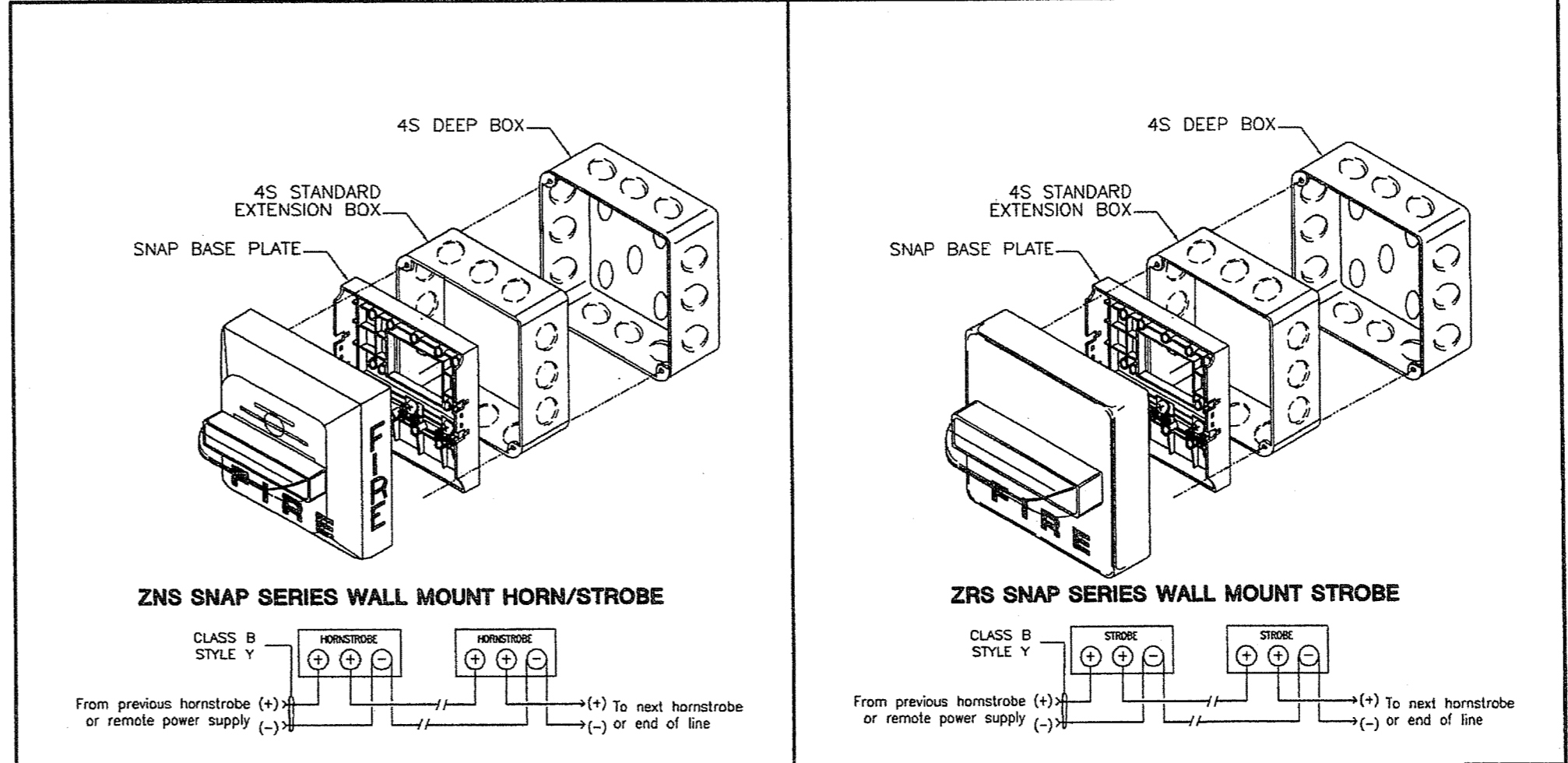
**FSD-751PL DUCT DETECTOR WIRING**



**BACKBOX MOUNTING ELEVATION DETAIL**



**DEVICE MOUNTING ELEVATION DETAILS**



**ZNS SNAP SERIES WALL MOUNT HORN/SSTROBE** and **ZRS SNAP SERIES WALL MOUNT STROBE**

REFER TO FLOOR PLANS FOR DEVICE LOCATION AND QUANTITIES

COMPLETE AUTOMATIC FIRE ALARM SYSTEM PLAN SUBMITTAL PER DSA POLICY 95-03(FLS)



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 Fire, Life Safety and Security System Design and Installation  
 C-10 #612153 ACO 3231

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 Carlsbad, CA 92008  
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**NOTIFIER**  
 by Honeywell  
 FACTORY AUTHORIZED

**COOPER wheelock** **nesco** **Affiliate**

Signatures

STATE OF CALIFORNIA  
 LICENSED ELECTRICAL CONTRACTOR

CID-612153  
 EXP. 02-28-09

Approvals

RECEIVED  
 APR 30 2011  
 DM ELECTRIC INC.

ISSUED FOR PLAN CHECK 01/08/08 JZ  
 Rev Issued For Date By

Project:  
**Claypool Building Reconstruction**  
**Palo Verde College, Needles Center**  
 Palo Verde Community College District  
 725 W. Broadway St.,  
 Needles, CA 92363  
 W.O. #: 27656

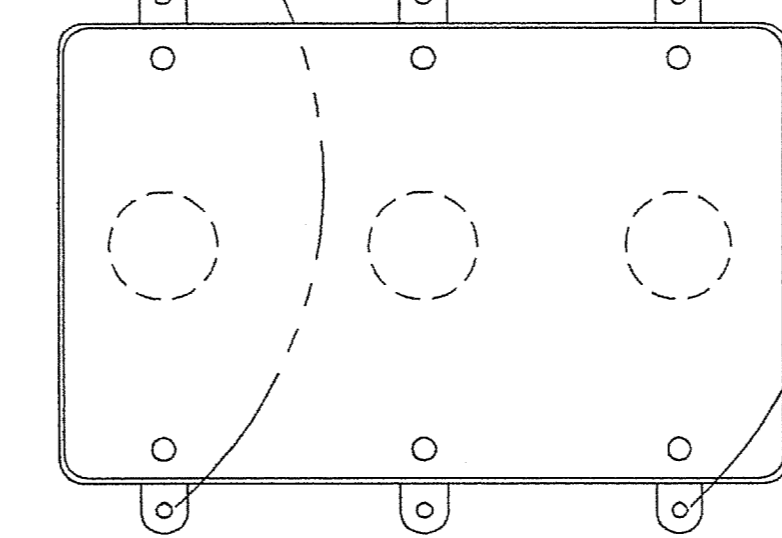
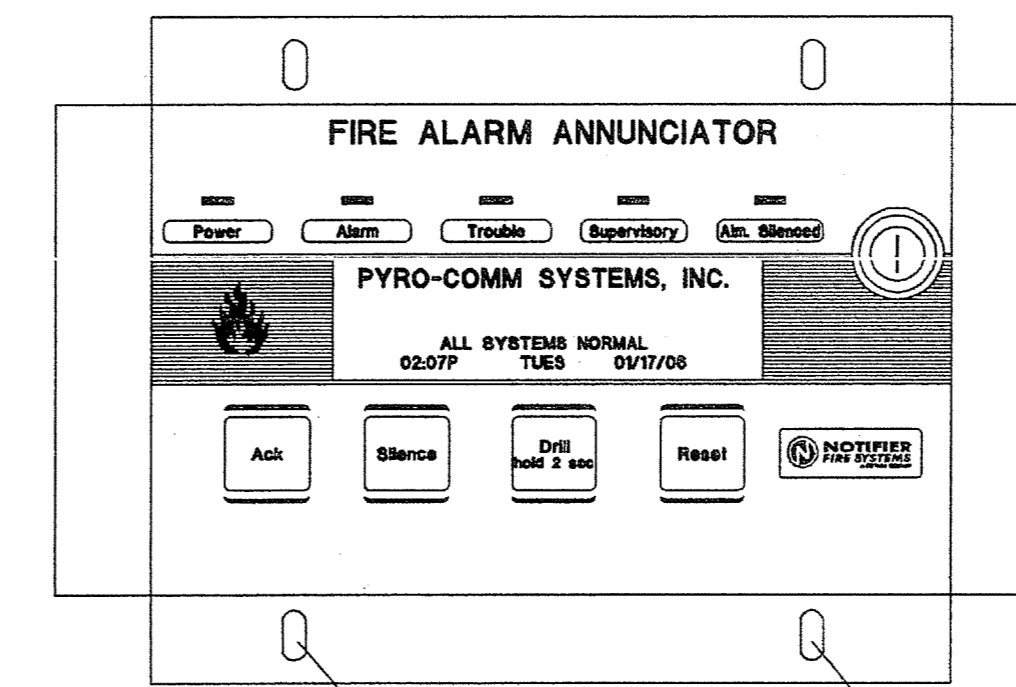
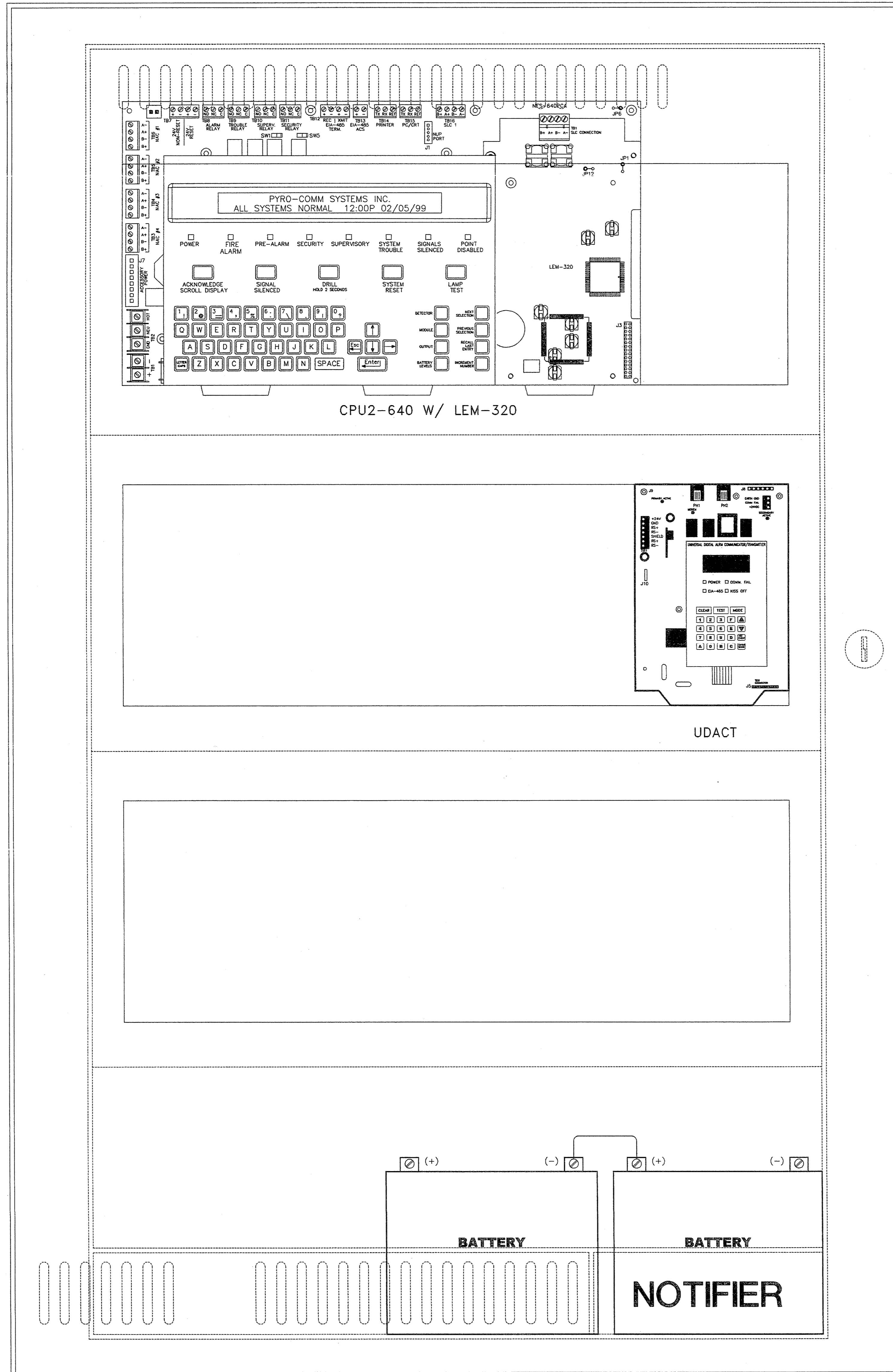
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**FIRE ALARM TYPICAL WIRING DETAILS**

Drawn By:  
**JZ**  
 04/07/08  
 Cad File: M:\Claypool Building Reconstruction Palo Verde College  
 FA-2.01.dwg

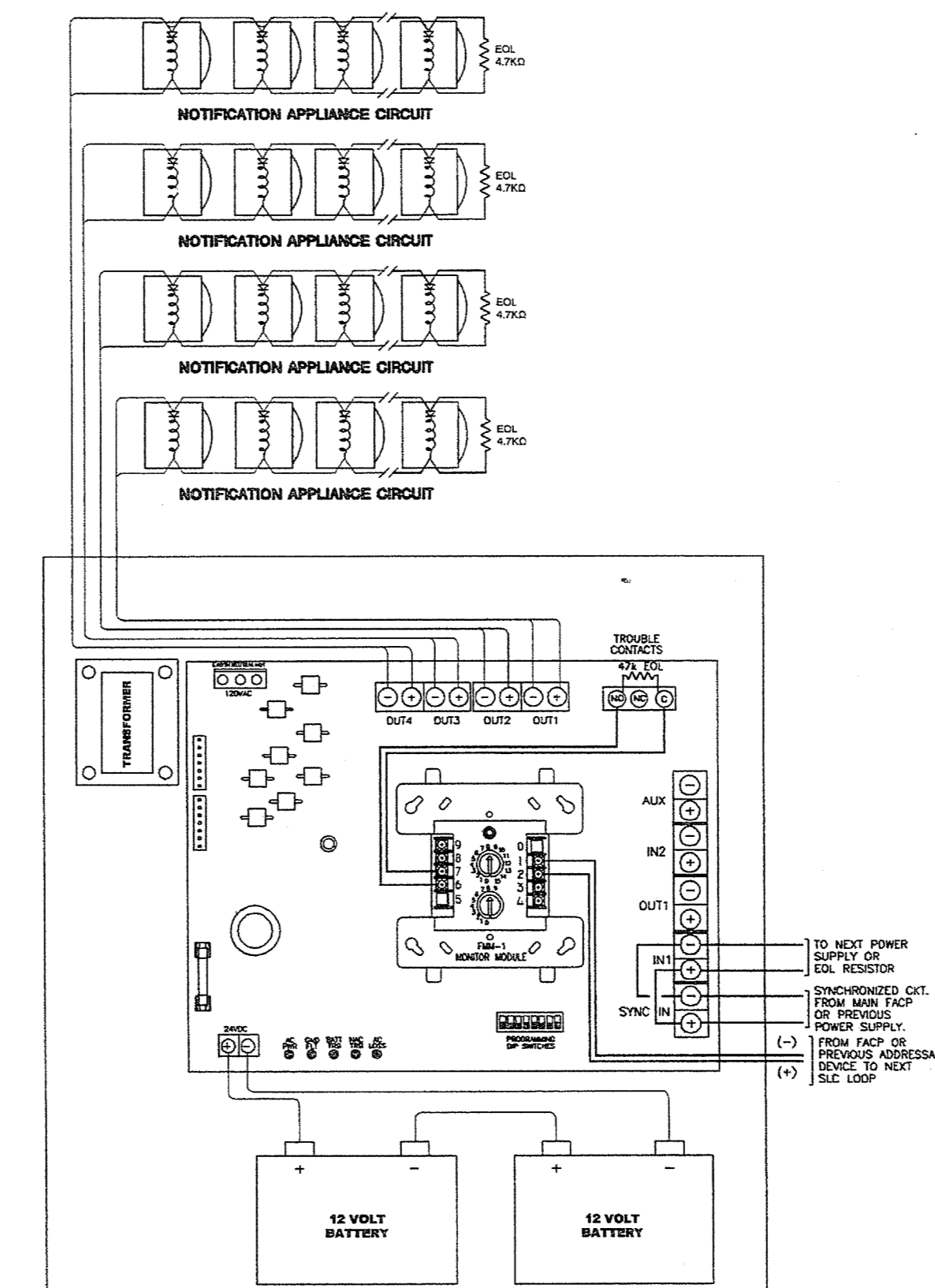
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FDU-80 FIRE ALARM ANNUNCIATOR



POWER SUPPLY WIRING (SYNC TURN-ON)



**Pyro-Comm Systems, Inc.**

Fire, Life Safety and Security System Design and Installation  
C-10 #612153 ACO 3231

CORPORATE OFFICE  
15531 Container Lane  
Huntington Beach, CA 92649  
T(714)902-8000 F(714)902-8001

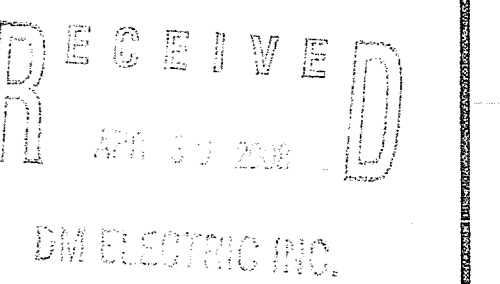
SAN DIEGO REGIONAL OFFICE  
5115 Avenida Encinas Ste.F  
Carlsbad, CA 92008  
T(760)930-6014 F(760)930-6015



Signatures

STATE OF CALIFORNIA  
LICENSED ELECTRICAL CONTRACTOR  
C10-612153  
EXP. 02-28-09

Approvals



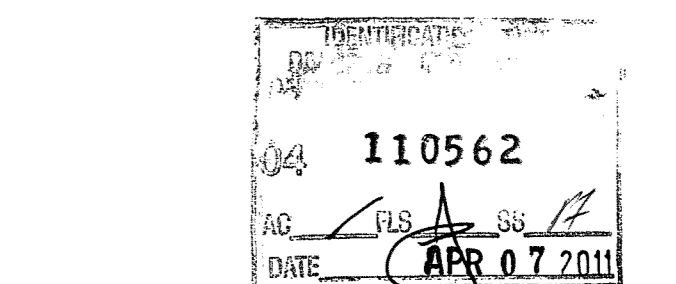
ISSUED FOR PLAN CHECK 01/08/08 JZ  
Rev Issued For Date By

Project: Claypool Building Reconstruction  
Palo Verde College, Needles Center  
Palo Verde Community College District  
725 W. Broadway St., Needles, CA 92383  
W.O. #: 27656

Sheet Title: FIRE ALARM SYSTEM CALCULATIONS INFORMATION

Drawn By: JZ  
01/07/08  
Cad File: M:\Claypool Building Reconstruction Palo Verde College - Needles Center - #27656/FA-2.02 Panel Details.dwg

Sheet Number: FA-2.02



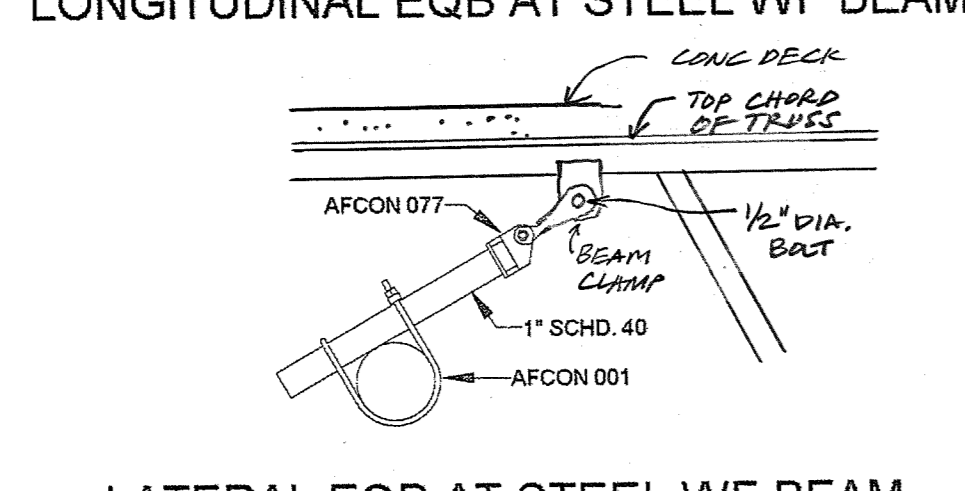
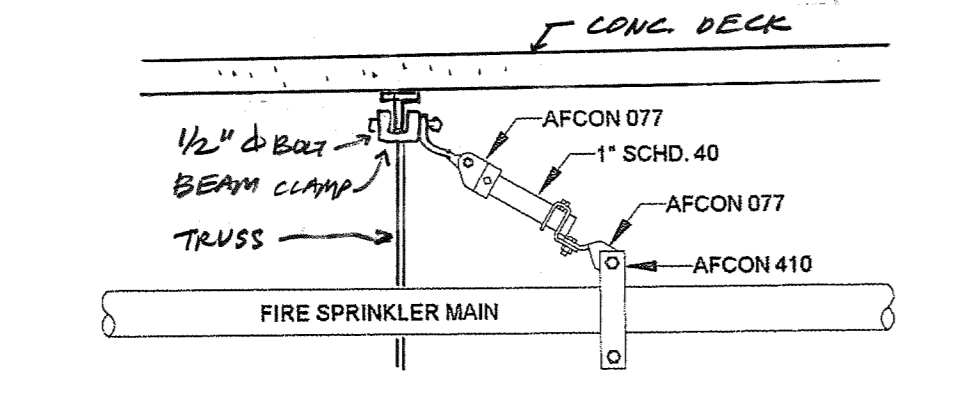
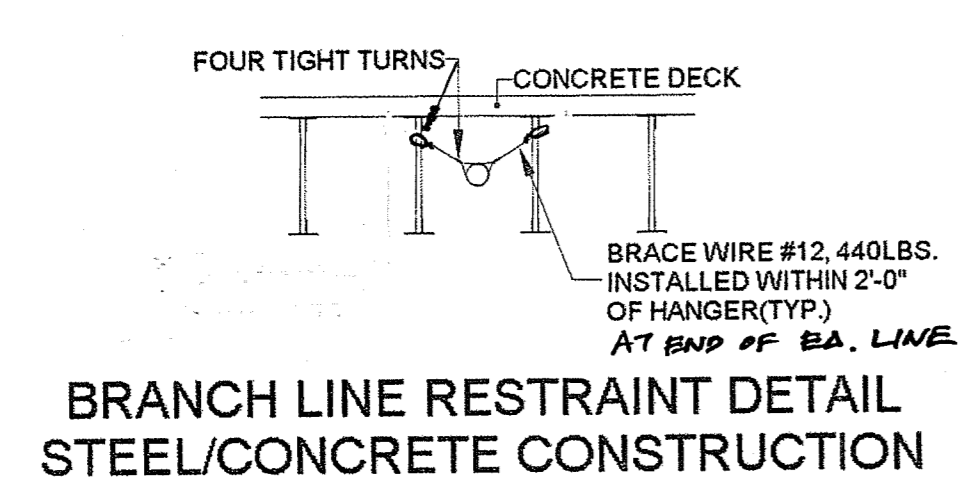
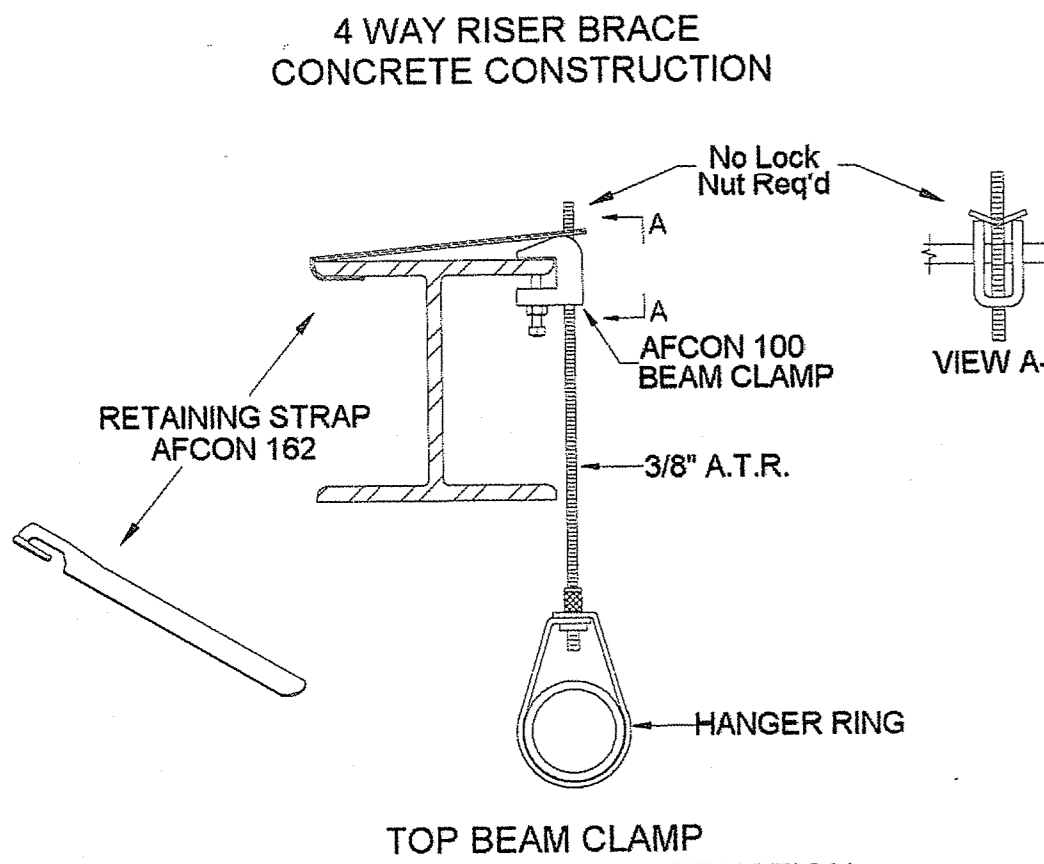
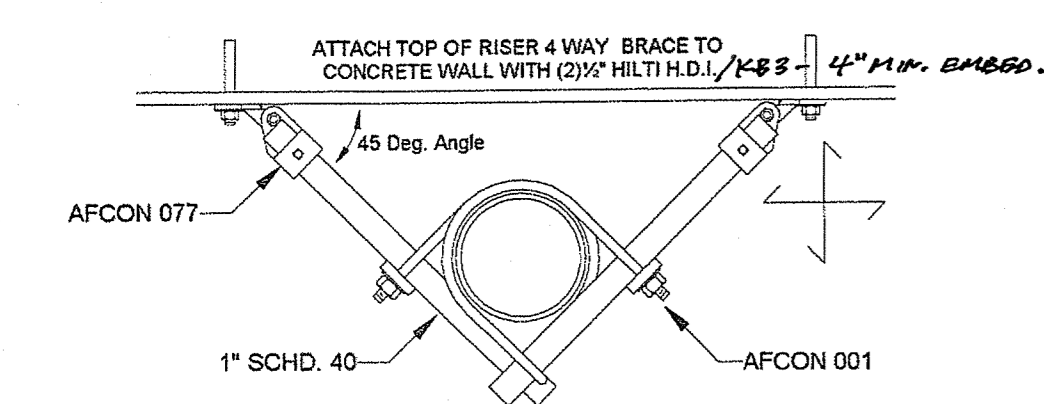
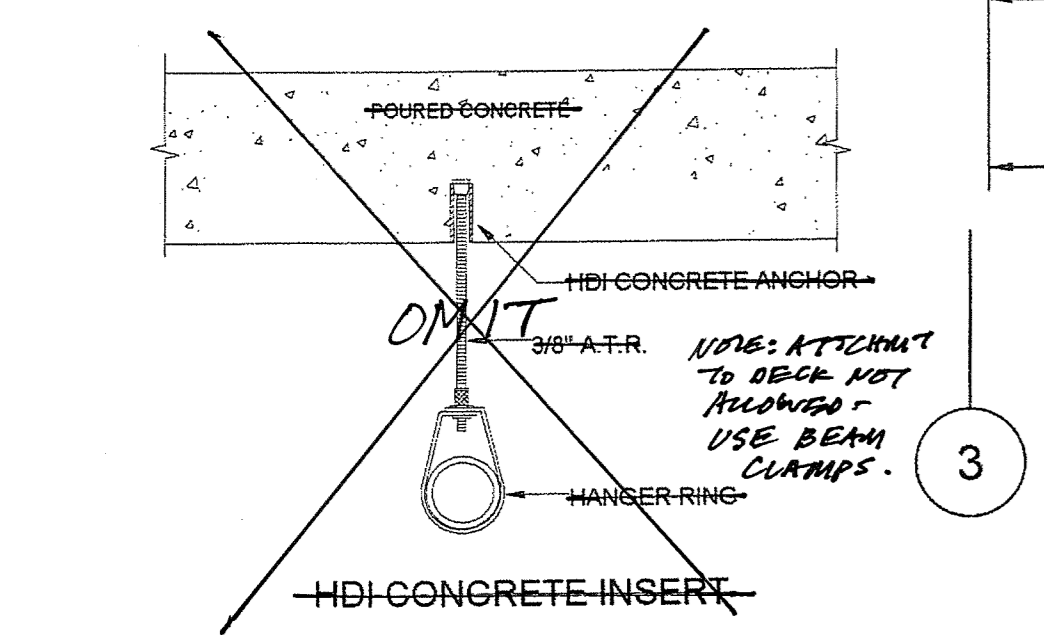
COMPLETE AUTOMATIC FIRE ALARM SYSTEM PLAN SUBMITTAL PER DSA POLICY 95-03(FLS)

**HYDRAULIC SYSTEM**  
 THIS BUILDING IS PROTECTED BY A HYDRAULICALLY DESIGNED AUTOMATIC SPRINKLER SYSTEM.

DATE CALCULATED: 12-16-07  
 LOCATION: BASEMENT - NORTH EAST CORNER  
 No. OF SPRINKLERS: 14  
 BASIS OF DESIGN:  
 1. DENSITY: 20 gpm  
 2. DESIGN AREA: 958.39 sq-ft  
 SYSTEM DEMAND:  
 1. WATER FLOW RATE: 624.12 gpm  
 2. RESIDUAL PRESSURE: 83.178 psi  
 HOSE STREAM ALLOWANCE INCLUDED ABOVE: 250 gpm  
 CALCULATED BY: **CJ Suppression, Inc.**

**REDUCED AREA CALCULATION**

$Y = \frac{-3x}{2} + 55$   
 $Y = \frac{-3(11'-6")}{2} + 55$   
 $Y = -17.25 + 55$   
 $Y = 37.75\%$  REDUCTION  
 $Y = 37.75\% \times 1500\text{sqft}$   
 $Y = 566.25\text{sqft}$  REDUCTION  
 $Y = 933.75\text{sqft}$  MAX. REMOTE AREA REQUIRED



**GENERAL NOTES**  
 SYSTEM DESIGN, MATERIALS, FABRICATION AND METHODS OF INSTALLATION SHALL CONFORM TO NFPA 13-2002 AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.

SCOPE OF WORK IS THE INSTALLATION OF NEW HYDRAULICALLY CALCULATED WET FIRE SPRINKLER SYSTEM TO THE BASEMENT AREA OF THE BUILDING SHOWN

NEW SPRINKLER HEADS HAVE BEEN SPACED IN ACCORDANCE WITH NFPA 13-2002 REQUIREMENTS FOR BOTH ORDINARY (130sqft) AND LIGHT (225sqft) HAZARD OCCUPANCIES WHERE APPLICABLE PER ROOM OCCUPANCY.

NEW 1" PIPING TO BE SCHD. 40 BLACK STEEL, WITH THREADED ENDS AND CONNECTED WITH DUCTILE IRON SCREW FITTINGS RATED FOR 175psi WORKING PRESSURE.

NEW 1 1/2" TO 3" PIPING TO BE SCHD. 10 BLACK STEEL, WITH ROLL GROOVED ENDS, WELDED OUTLETS AND CONNECTED WITH GROOVED COUPLINGS AND FITTINGS RATED FOR 175psi WORKING PRESSURE.

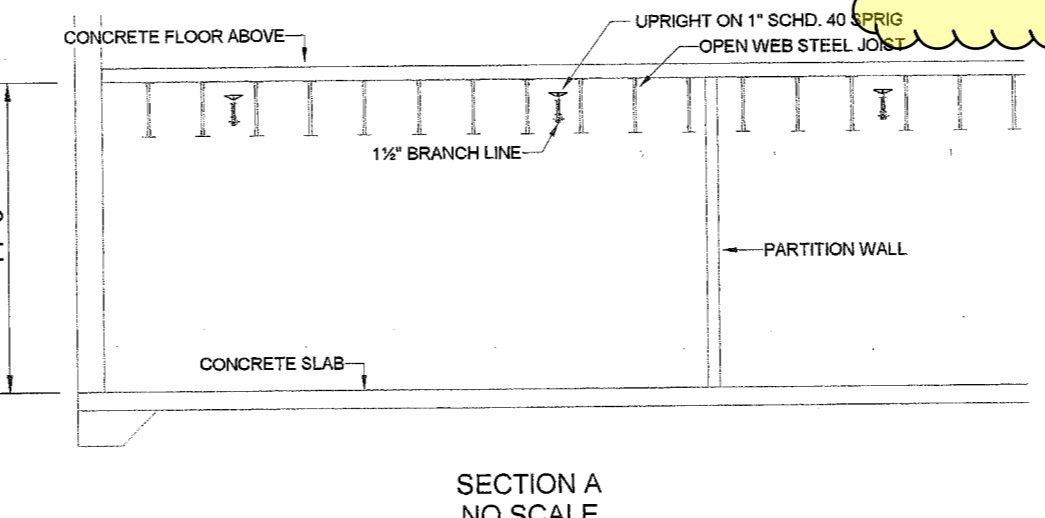
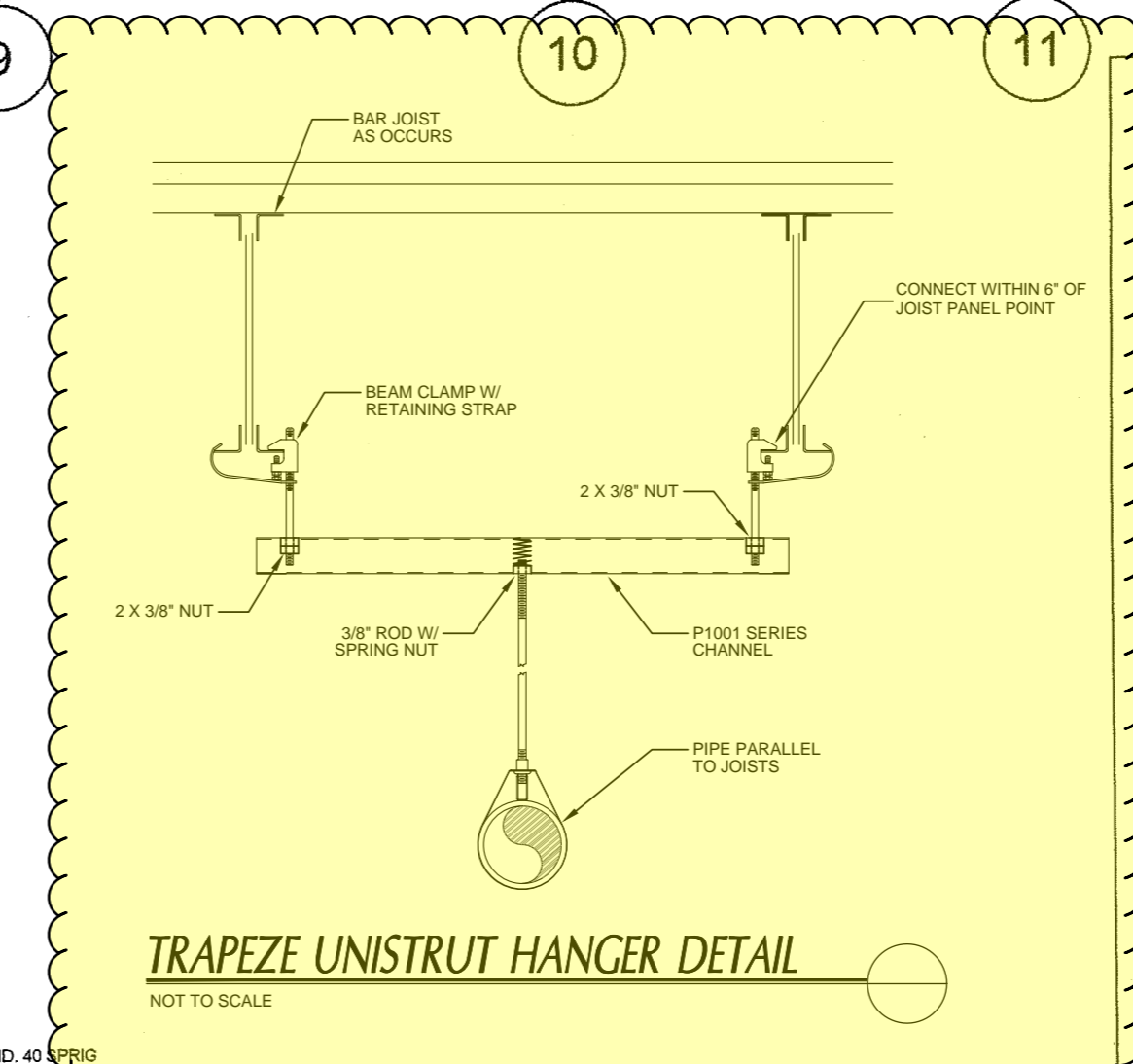
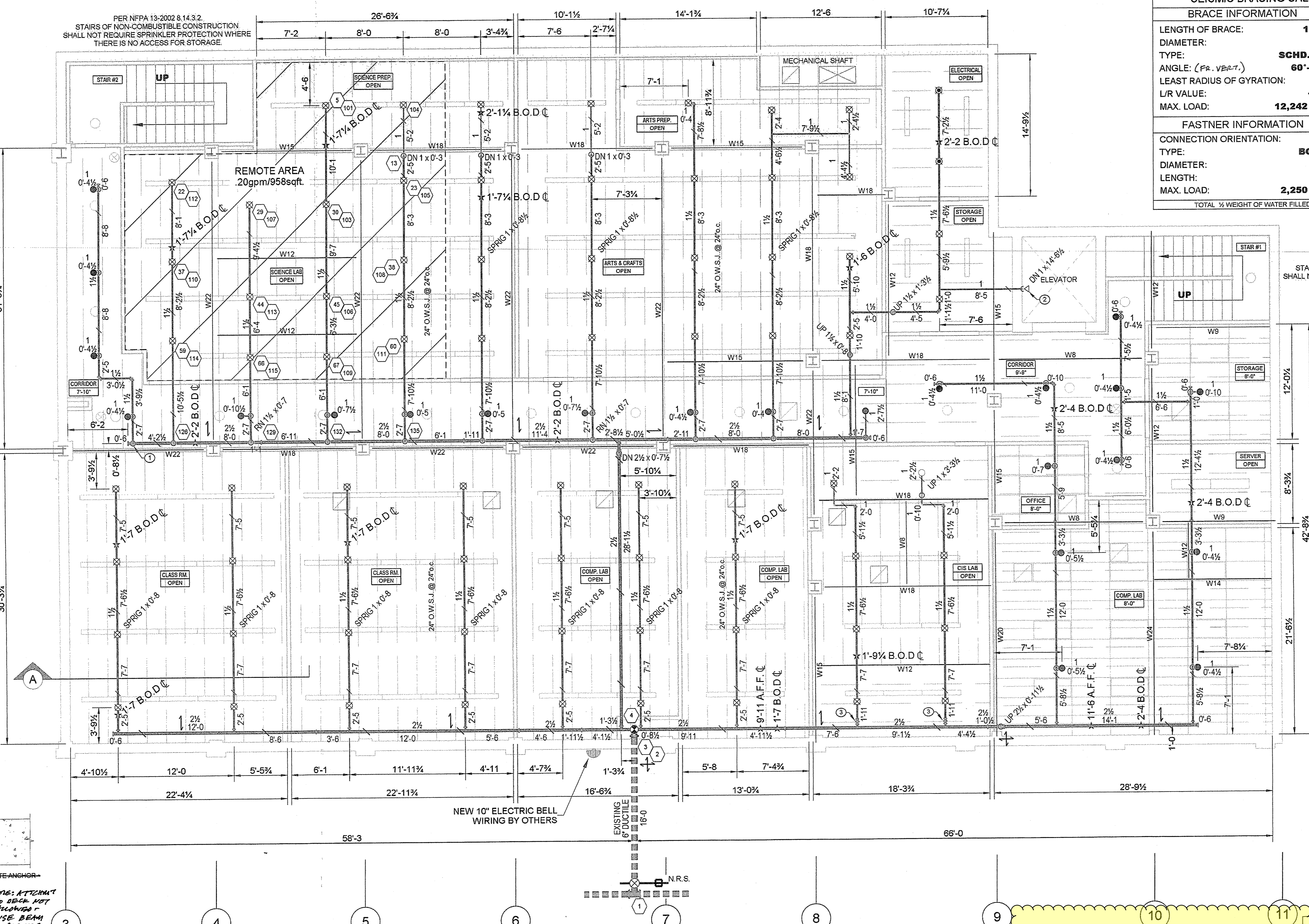
NEW UPRIGHT HEADS TO BE TYCO, TY-FRB, TY3131, QUICK RESPONSE TYPE, BRASS, 1/2"NPT.

NEW PENDENT HEADS TO BE TYCO, TY-FRB, TY3231, QUICK RESPONSE TYPE, CHROME, 1/2", 1/2"NPT, SEMI-RECESSED.

NEW PENDENT-VERTICAL SIDEWALL HEAD AT BOTTOM OF ELEVATOR SHAFT TO BE TYCO, TY-FRB, TY3431, QUICK RESPONSE TYPE, BRASS, 200F, 1/2"NPT.

**INSTALLATION NOTES**

- 1" AUX. DRAIN
  - INSTALL SIDEWALL HEAD WITHIN 2R OF BOTTOM OF ELEVATOR SHAFT
  - DOUBLE GROOVED 1 1/2" x 4 1/2" ELBOW TO DROP LINE TO DESIRED ELEVATION
- \*UPRIGHT HEAD DEFLECTOR TO BE A MIN. ON 1" TO A MAX. 12" BELOW FLOOR DECKING  
 \*\*FIRE DEPARTMENT WELD INSPECTION REQUIRED PRIOR TO INSTALLATION OF PIPING  
 \*\*\* ALL INSTALLED PIPING SHALL BE HYDROSTATICALLY TESTED AT 200psi FOR 2 HOURS AND SHALL BE WITNESSED BY A FIRE DEPARTMENT OFFICIAL



LATERAL  LONGITUDINAL

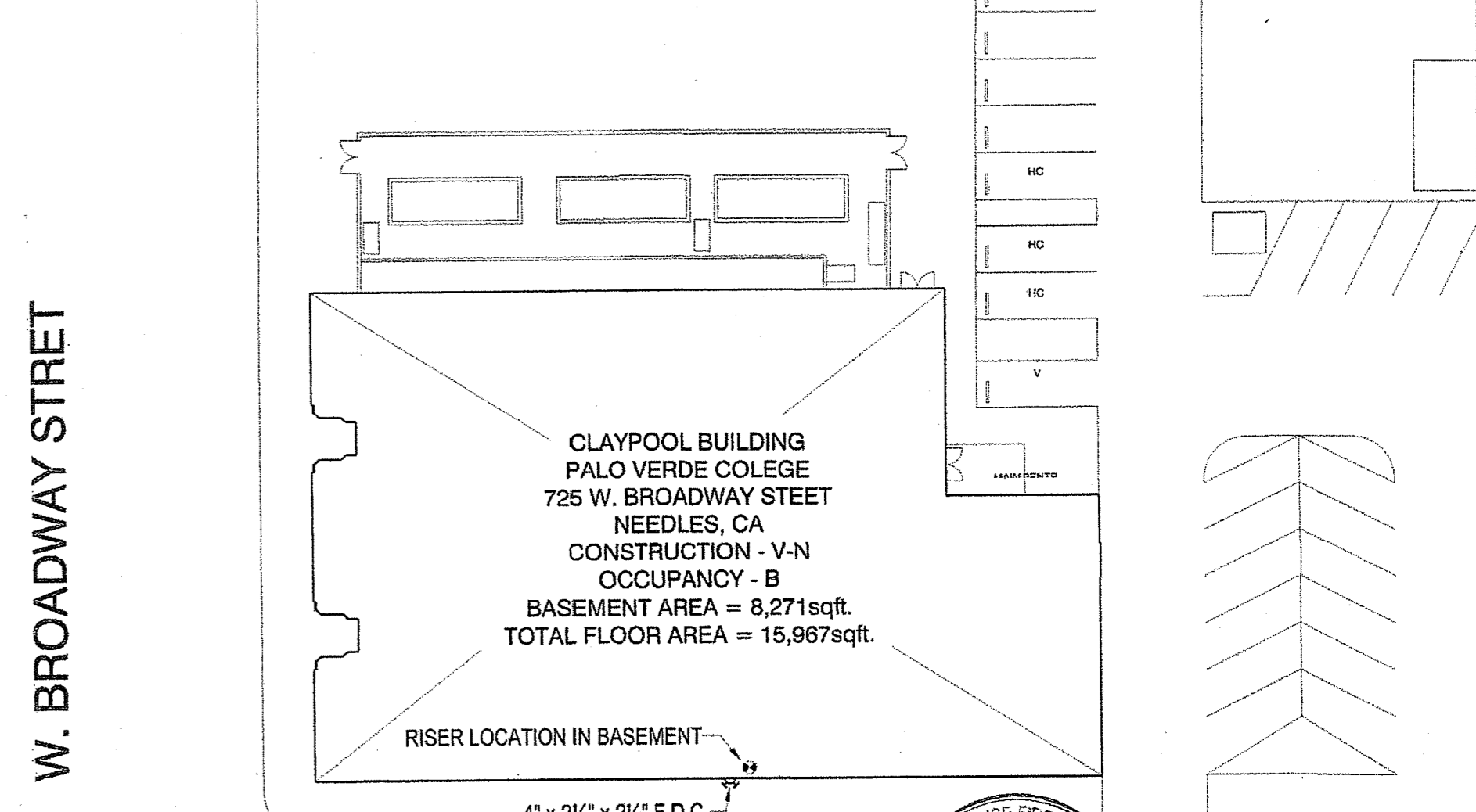
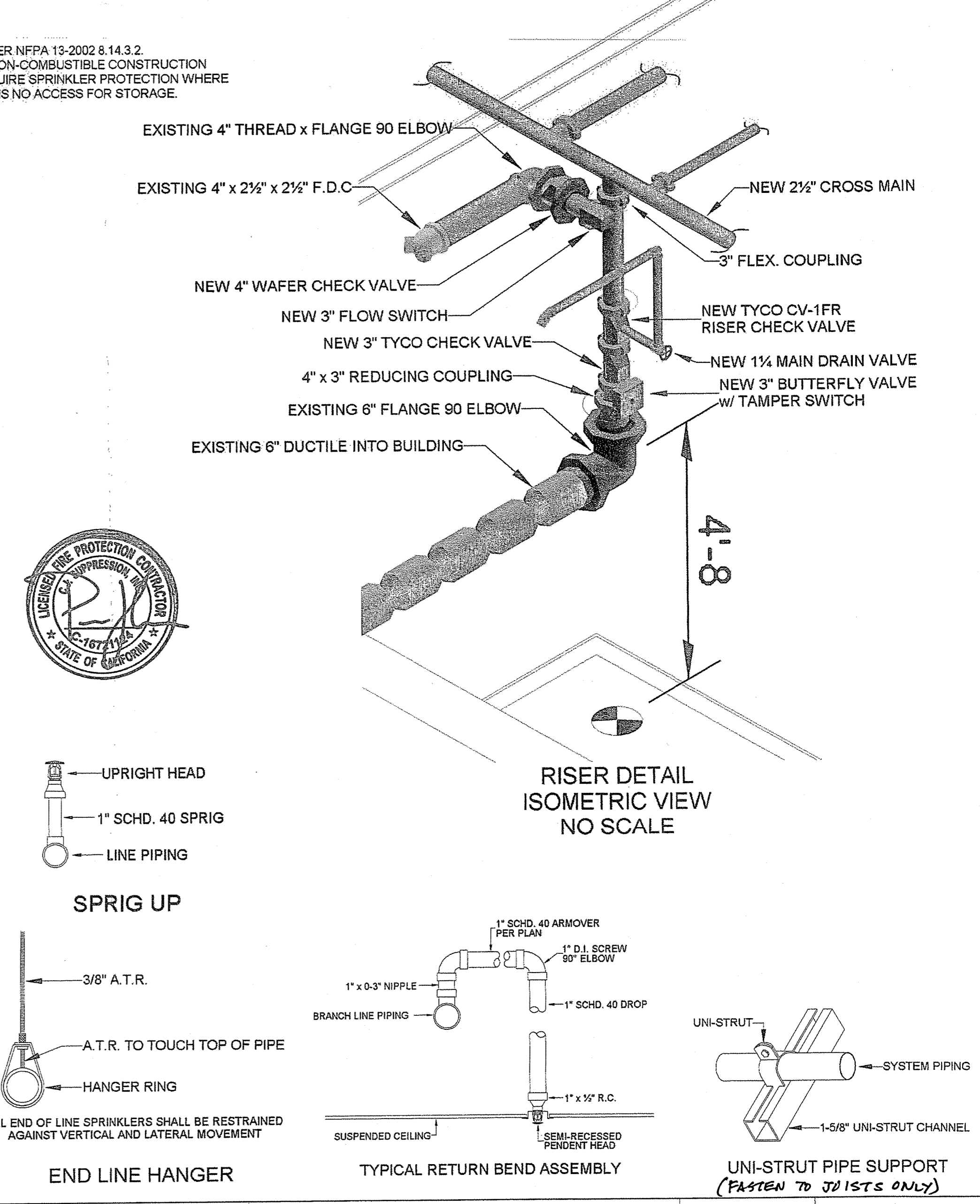
**SEISMIC BRACING CALCULATIONS - PER NFPA 13-2002**

BRACE INFORMATION		BRACE ATTACHMENT	
LENGTH OF BRACE:	1'-0"	ATTACHMENT TO STRUCTURE	
DIAMETER:	1"	MAKE: AFCON MODEL: 086 LISTED LOAD: 2015lbs	ADJUSTED LOAD PER 9.3.5.10.3: 1744 lbs
TYPE:	SCHD. 40	ATTACHMENT TO STRUCTURE - BRACE PIPE	
ANGLE: (FR. VEAT.):	60°-90°	MAKE: AFCON MODEL: 077 LISTED LOAD: 2015lbs	ADJUSTED LOAD PER 9.3.5.10.3: 1744 lbs
LEAST RADIUS OF GYRATION:	.42	ATTACHMENT TO PIPE	
L/R VALUE:	100	MAKE: AFCON MODEL: 801 LISTED LOAD: 2015lbs	ADJUSTED LOAD PER 9.3.5.10.3: 1744 lbs
MAX. LOAD:	12,242 lbs	SYSTEM LOAD	
FASTNER INFORMATION		CONNECTION ORIENTATION: C	
CONNECTION ORIENTATION: C		DIA. TYPE TOTAL LENGTH WEIGHT TOTAL WEIGHT	
DIAMETER: 1/2"		2 1/2" SCH. 10 80R MAX. 5.89 lbs/ft 471.20 lbs	
LENGTH: 1"		1 1/2" SCH. 10 120R 3.04 lbs/ft 364.80 lbs	
MAX. LOAD: 2,250 lbs		TOTAL 1/2 WEIGHT 418.00 lbs	
TOTAL 1/2 WEIGHT OF WATER FILLED PIPE + WEIGHT OF FITTINGS + 15% INCREASE		480.70 lbs	

LATERAL  LONGITUDINAL

**SEISMIC BRACING CALCULATIONS - PER NFPA 13-2002**

BRACE INFORMATION		BRACE ATTACHMENT	
LENGTH OF BRACE:	1'-0"	ATTACHMENT TO STRUCTURE	
DIAMETER:	1"	MAKE: AFCON MODEL: 086 LISTED LOAD: 2015lbs	ADJUSTED LOAD PER 9.3.5.10.3: 1744 lbs
TYPE:	SCHD. 40	ATTACHMENT TO STRUCTURE - BRACE PIPE	
ANGLE: (FR. VEAT.):	60°-90°	MAKE: AFCON MODEL: 077 LISTED LOAD: 2015lbs	ADJUSTED LOAD PER 9.3.5.10.3: 1744 lbs
LEAST RADIUS OF GYRATION:	.42	ATTACHMENT TO PIPE	
L/R VALUE:	100	MAKE: AFCON MODEL: 410 LISTED LOAD: 2015lbs	ADJUSTED LOAD PER 9.3.5.10.3: 1744 lbs
MAX. LOAD:	12,242 lbs	SYSTEM LOAD	
FASTNER INFORMATION		CONNECTION ORIENTATION: C	
CONNECTION ORIENTATION: C		DIA. TYPE TOTAL LENGTH WEIGHT TOTAL WEIGHT	
TYPE: BOLT		2 1/2" SCH. 10 80R MAX. 5.89 lbs/ft 471.20 lbs	
DIAMETER: 1/2"		TOTAL 1/2 WEIGHT 418.00 lbs	
LENGTH: 1"		TOTAL 1/2 WEIGHT 236.60 lbs	
MAX. LOAD: 2,250 lbs		TOTAL 1/2 WEIGHT OF WATER FILLED PIPE + WEIGHT OF FITTINGS + 15% INCREASE 270.94 lbs	



GC Builders, Inc.  
 Submittal Review

Submitted By: CJ Suppression  
 Reviewed By: [Signature]  
 Date: 12-19-07

CLAYPOOL BUILDING FIRE SAFETY PLAN  
 562-754-4457  
 CALIFORNIA FIRE SAFETY BOARD  
 APPROVED FOR CONSTRUCTION

UNDERGROUND SYMBOLS	PIPING PLAN SYMBOLS	HEAD DESCRIPTION	MFG.	MODEL	S.I.N.	TEMP.	K-FACTOR	FINISH	QTY.	#	DATE	BY	REVISIONS
○ PIV. - POST INDICATOR VALVE	△ - RISER WITH ALARM VALVE	○ - UPRIGHT ON 1" SCHD. 40 SPRIG	TYCO	TY-FRB	TY3131	155F	5.6	BRASS	71				
○ N.R.S. - KEY VALVE	△ - RISER WITH CHECK VALVE	○ - PENDENT ON 1" SCHD. 40 DROP	TYCO	TY-FRB	TY3231	155F	5.6	CHROME	23				
○ - FIRE HYDRANT	○ - WATER MOTOR GONG	○ - UPRIGHT ON LINE FITTING	TYCO	TY-FRB	TY3131	155F	5.6	BRASS	1				
○ - FIRE DEPT. CONNECTION	○ - ELECTRIC BELL	○ - VERTICAL SIDEWALL	TYCO	TY-FRB	TY3431	200F	5.6	BRASS	1				
○ - O.S. & Y. VALVE	○ - PIPE HANGER LOCATION	○ - UPRIGHT ON 1" SCHD. 40 SPRIG	TYCO	TY-FRB	TY3131	200F	5.6	BRASS	2				
○ - CHECK VALVE	○ - FOUR WAY SWAY BRACE												
○ - NEW UNDERGROUND	○ - TWO WAY SWAY BRACE												
○ - EXIST. UNDERGROUND	○ - HYDRAULIC NODE POINT												
TOTAL HEADS THIS PROJECT										99			

APPROVAL AUTHORITY SAN BERNARDINO Co. FIRE DEPT.	CONTRACT WITH: GC BUILDERS	SCALE: MAP CO'RD
WATER INFO SOURCE CITY OF NEEDLES WATER DEPT.	PROJECT ARCHITECT: GC BUILDERS	ENGINEER: PCJ
WATER FLOW INFO 11-01-07, 2 1/2" DIFFUSER STATIC = 95psi RESIDUAL = 93psi FLOW = 1,550gpm	ADDRESS: 5081 Lakewood Road CITY/STATE: Fort Mohave, AZ PHONE:	DATE: 12-16-07

**CJ Suppression, Inc**  
 205 Lewis Court, Corona CA 92882  
 951-735-5560 951-279-2416 FAX  
 K-16 ROC197715 & C-16 721124

PROJECT: CLAYPOOL  
 725 W. BROADWAY STREET  
 NEEDLES CA 92363

NO: M-3771  
 FP: 1 OF 1

DATE: APR 07 2011



**SYMBOL LEGEND**

5 PORT PRIMARY DISTRIBUTION MODULE	4
ACCESS FLOOR BOX	53
VER. A (WHIP CKT 1)	17
VER. B (WHIP CKT 2)	19
VER. C (WHIP CKT 3)	17
VER. D (WHIP CKT 4)	0
DUPLEX CONNECTION TEE	0
VER. A (WHIP CKT 1)	0
VER. B (WHIP CKT 2)	0
VER. C (WHIP CKT 3)	0
VER. D (WHIP CKT 4)	0
FURNITURE CONNECTION TEE	0
VER. A (WHIP CKT 1)	0
VER. B (WHIP CKT 2)	0
VER. C (WHIP CKT 3)	0
VER. D (WHIP CKT 4)	0

**WHIP LEGEND**

JUMPER WHIP	0
5c	10
10c	13
15c	7
20c	7
25c	6
30c	7
35c	1
40c	3
45c	0
50c	1
70c	2
HOMERUN WHIP FROM ELEC ROOM	0
20'HR	0
30'HR	0
40'HR	1
0/M 60'	1
60'HR	2
0/M 70'	1
70'HR	1
80'HR	0
0/M 100'	1
110'HR	0
120'HR	0
130'HR	0
140'HR	0
150'HR	0
160'HR	0
170'HR	0
180'HR	0
190'HR	0
200'HR	0
210'HR	0
220'HR	0
230'HR	0
240'HR	0
250'HR	0

**NOTES:**

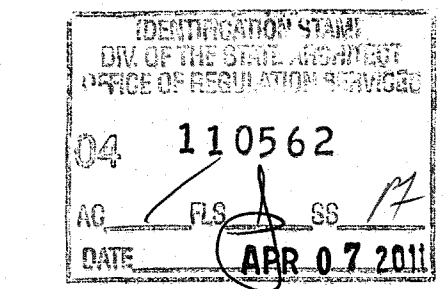
- \* COORDINATE POWER CONNECTION BACK TO ELECTRICAL PANEL WITH ELECTRICAL DRAWINGS. ALL TERMINATIONS TO PANEL BY EC.
- \* COORDINATE FINAL FLOOR BOX LOCATIONS WITH FURNITURE LAYOUT, OTHER TRADES AND ARCHITECT.
- \* MODULAR WHIP ROUTING IS SHOWN FOR CONNECTIVITY ONLY. ACTUAL ROUTING MAY BE ALTERED FOR UTILITIES AND/OR PATHWAYS UNDER RAISED ACCESS FLOOR.
- \*INSTALL MODULAR POWER COMPONENTS IN ACCORDANCE WITH MANUFACTURERS INSTALLATION GUIDELINES AND NATIONAL AND LOCAL CODES.

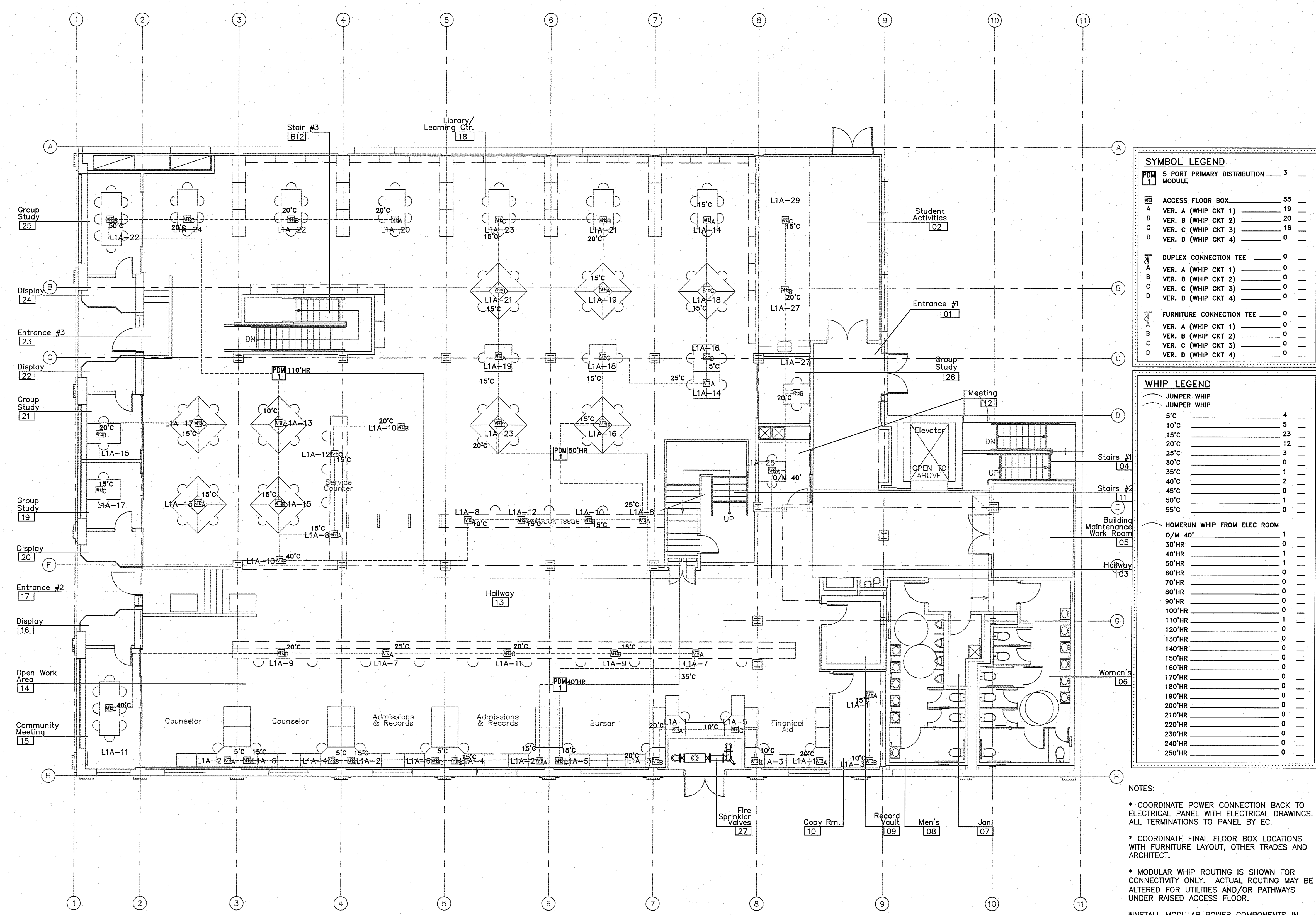
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APPROVAL SIGNATURES	DATE
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X	
X	
X	

JOB NUMBER: \_\_\_\_\_  
 DRAWN BY: GO DATE: \_\_\_\_\_  
 CHECKED BY: TDL SCALE: 1/8"=1'  
 SHEET TITLE:  
 PALO VERDE COLLEGE  
 CLAYPOOL BUILDING  
 RECONSTRUCTION  
 BASEMENT ACCESS FLOOR  
 POWER PLAN

DRAWING #:  
**AF 1.1**  
 FILE NAME: NCENB-PWR-062607





**SYMBOL LEGEND**

5 PORT PRIMARY DISTRIBUTION	3
MODULE	
ACCESS FLOOR BOX	55
VER. A (WHIP CKT 1)	19
VER. B (WHIP CKT 2)	20
VER. C (WHIP CKT 3)	16
VER. D (WHIP CKT 4)	0
DUPLEX CONNECTION TEE	0
VER. A (WHIP CKT 1)	0
VER. B (WHIP CKT 2)	0
VER. C (WHIP CKT 3)	0
VER. D (WHIP CKT 4)	0
FURNITURE CONNECTION TEE	0
VER. A (WHIP CKT 1)	0
VER. B (WHIP CKT 2)	0
VER. C (WHIP CKT 3)	0
VER. D (WHIP CKT 4)	0

**WHIP LEGEND**

JUMPER WHIP	4
JUMPER WHIP	5
5°C	23
10°C	12
15°C	3
20°C	0
25°C	2
30°C	0
35°C	1
40°C	0
45°C	1
50°C	0
55°C	0
HOMERUN WHIP FROM ELEC ROOM	
0/M 40'	1
30'HR	0
40'HR	1
50'HR	0
60'HR	0
70'HR	0
80'HR	0
90'HR	0
100'HR	0
110'HR	1
120'HR	0
130'HR	0
140'HR	0
150'HR	0
160'HR	0
170'HR	0
180'HR	0
190'HR	0
200'HR	0
210'HR	0
220'HR	0
230'HR	0
240'HR	0
250'HR	0

**NOTES:**

- \* COORDINATE POWER CONNECTION BACK TO ELECTRICAL PANEL WITH ELECTRICAL DRAWINGS. ALL TERMINATIONS TO PANEL BY EC.
- \* COORDINATE FINAL FLOOR BOX LOCATIONS WITH FURNITURE LAYOUT, OTHER TRADES AND ARCHITECT.
- \* MODULAR WHIP ROUTING IS SHOWN FOR CONNECTIVITY ONLY. ACTUAL ROUTING MAY BE ALTERED FOR UTILITIES AND/OR PATHWAYS UNDER RAISED ACCESS FLOOR.
- \* INSTALL MODULAR POWER COMPONENTS IN ACCORDANCE WITH MANUFACTURERS INSTALLATION GUIDELINES AND NATIONAL AND LOCAL CODES.

**REVISIONS**

APPROVAL SIGNATURES	DATE
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X	
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X	

JOB NUMBER: \_\_\_\_\_

DRAWN BY: GO DATE: \_\_\_\_\_

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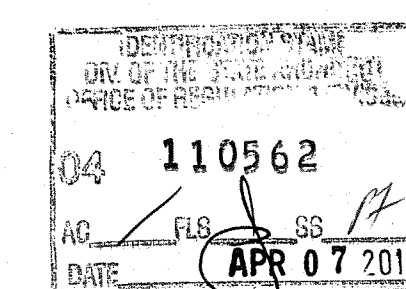
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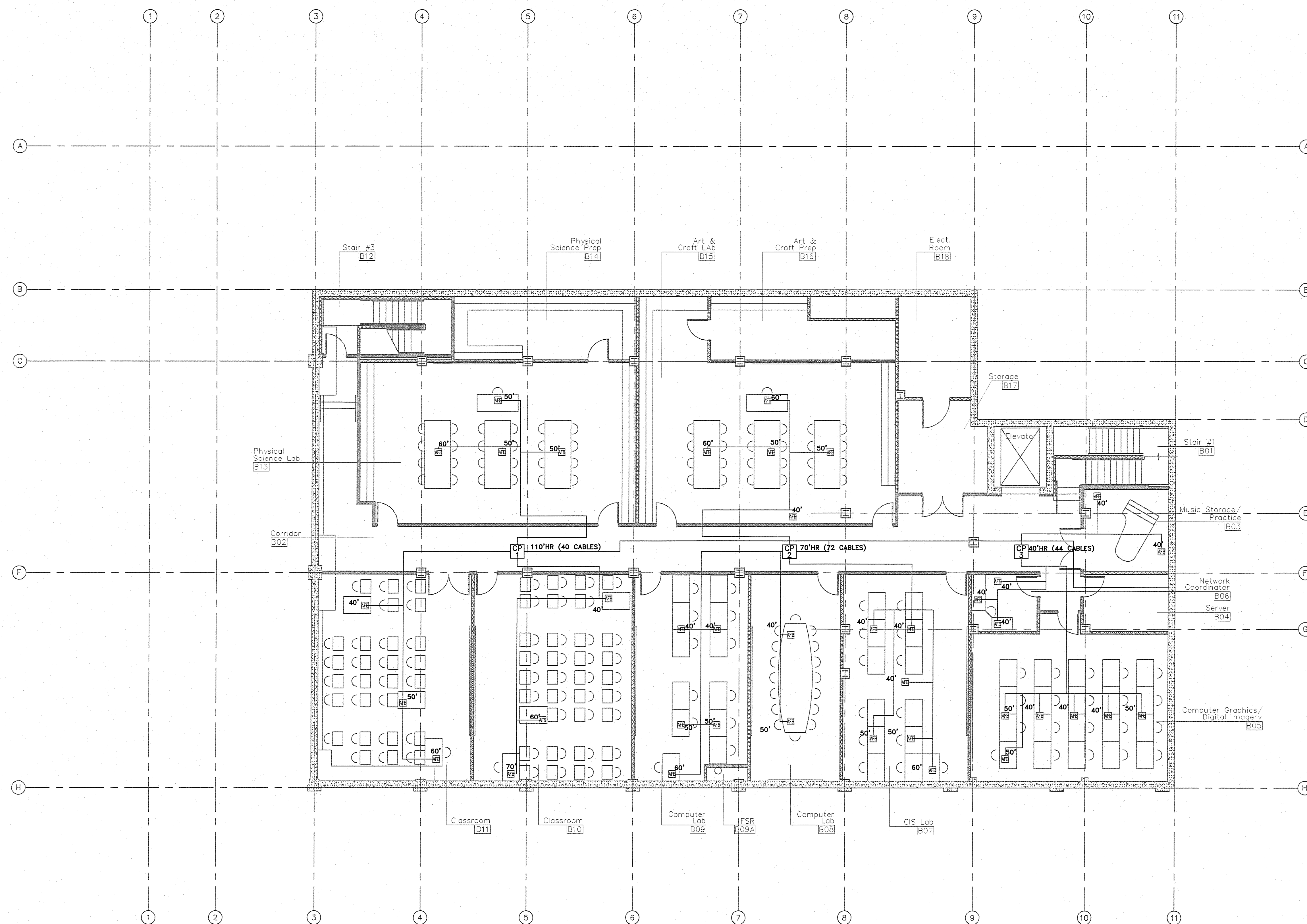
PALO VERDE COLLEGE  
CLAYPOOL BUILDING  
RECONSTRUCTION  
FIRST FLOOR ACCESS FLOOR  
POWER PLAN

DRAWING #:

**AF1.2**

FILE NAME: NCEN1-PWR-062607





**VD SYMBOL LEGEND**

CP1	96 PORT CONSOLIDATION POINT	3
CP2	W/ (4) 24 PORT PATCH PANELS	1
AFB	VD ACCESS FLOOR BOX	39

**CABLE LEGEND**

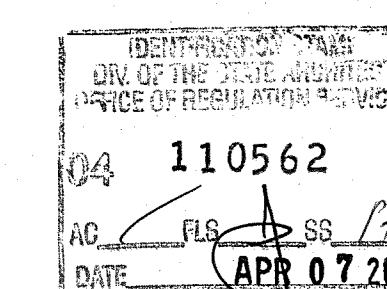
VOICE CABLE	
40'	14
50'	14
60'	7
70'	1
80'	0
90'	0
100'	0
110'	0
120'	0
BUNDLED CABLES TO TELECOM CLOSET	
20'HR	0
30'HR	0
40'HR	0
50'HR	0
60'HR	1
70'HR	1
80'HR	0
90'HR	0
100'HR	0
110'HR	1
120'HR	0
130'HR	0
140'HR	0
150'HR	0
160'HR	0
170'HR	0
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250'HR	0

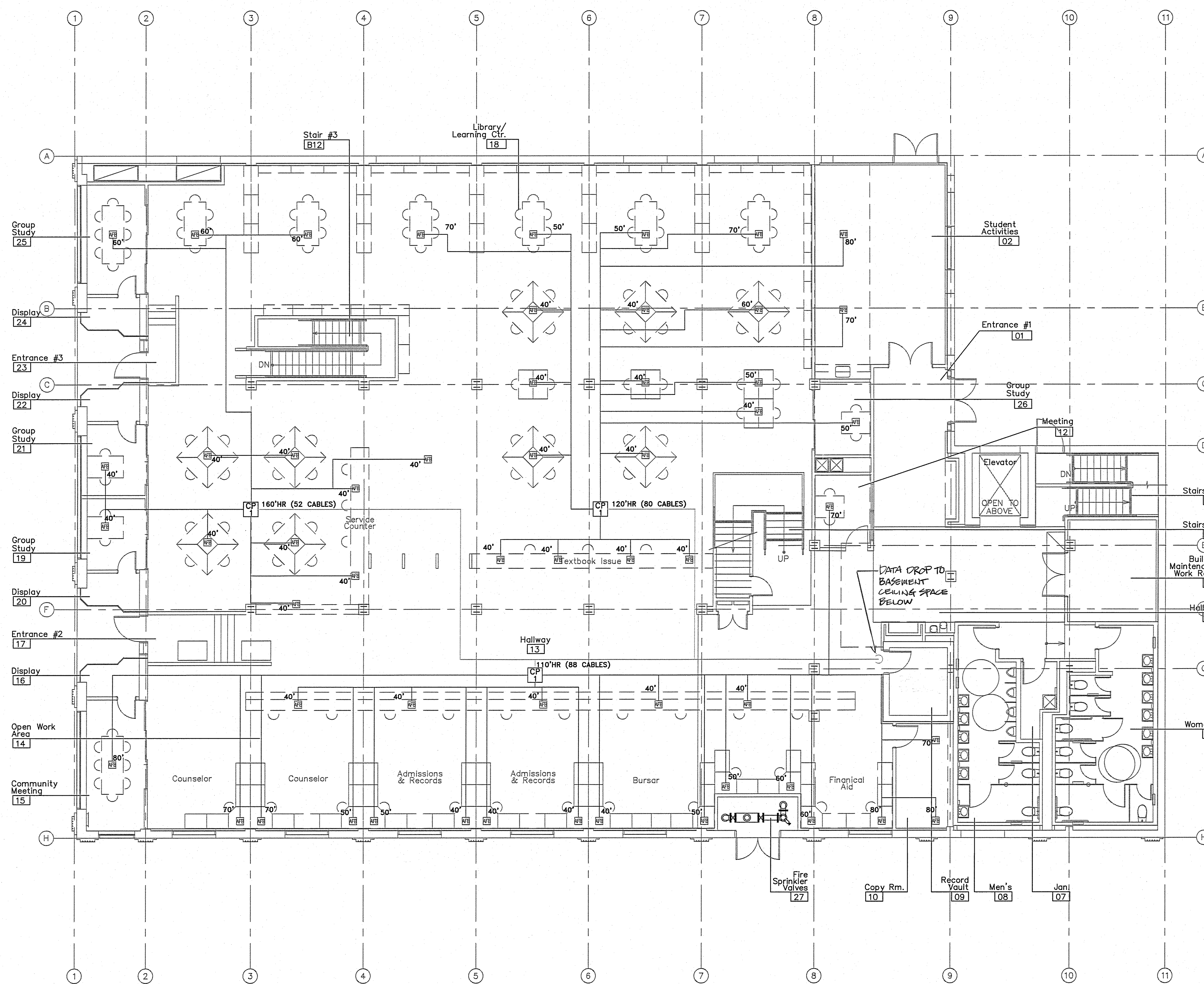
**REVISIONS**

APPROVAL SIGNATURES	DATE
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X _____	_____
X _____	_____
X _____	_____

JOB NUMBER: \_\_\_\_\_  
 DRAWN BY: GO DATE: \_\_\_\_\_  
 CHECKED BY: TDL SCALE: 1/8"=1'  
 SHEET TITLE:  
 PALO VERDE COLLEGE  
 CLAYPOOL BUILDING  
 RECONSTRUCTION  
 BASEMENT ACCESS FLOOR  
 COMMUNICATIONS PLAN

DRAWING #:  
**AF2.1**  
 FILE NAME: NCENB-VD-062607





VD SYMBOL LEGEND	
CP	96 PORT CONSOLIDATION POINT 3
W	(4) 24 PORT PATCH PANELS
VB	VD ACCESS FLOOR BOX 55

CABLE LEGEND	
VOICE CABLE	
DATA CABLE	
40'	30
50'	8
60'	6
70'	7
80'	4
90'	0
100'	0
110'	0
120'	0
BUNDLED CABLES TO TELECOM CLOSET	
20'HR	0
30'HR	0
40'HR	0
50'HR	0
60'HR	0
70'HR	0
80'HR	0
90'HR	0
100'HR	0
110'HR	1
120'HR	1
130'HR	0
140'HR	0
150'HR	0
160'HR	1
170'HR	0
180'HR	0
190'HR	0
200'HR	0
210'HR	0
220'HR	0
230'HR	0
240'HR	0
250'HR	0

**REVISIONS**

APPROVAL SIGNATURES	DATE
X _____	_____
X _____	_____
X _____	_____
X _____	_____

JOB NUMBER: \_\_\_\_\_  
 DRAWN BY: GO DATE: \_\_\_\_\_  
 CHECKED BY: TDL SCALE: 1/8"=1'  
 SHEET TITLE:  
**PALO VERDE COLLEGE  
 CLAYPOOL BUILDING  
 RECONSTRUCTION  
 FIRST FLOOR ACCESS FLOOR  
 COMMUNICATIONS PLAN**

DRAWING #:  
**AF2.2**  
 FILE NAME: NCENB-VD-062607

