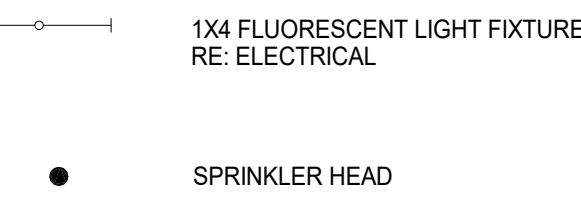
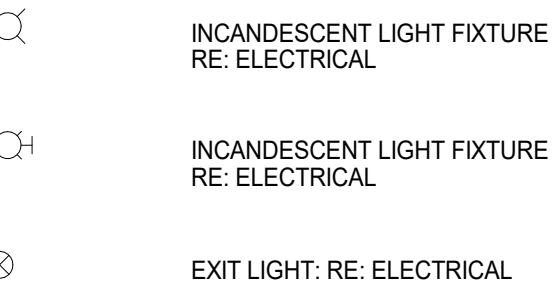
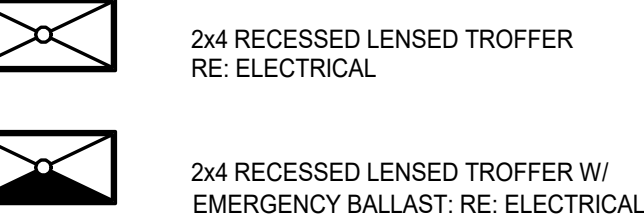
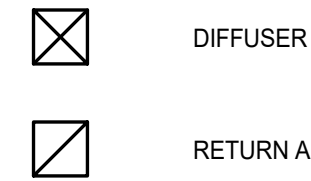
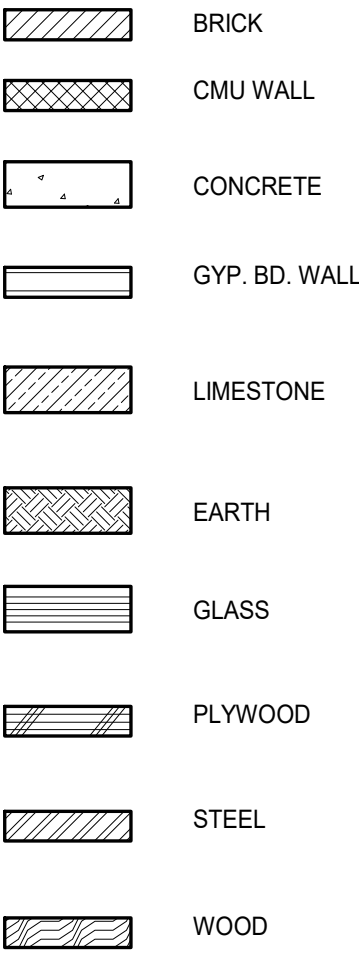


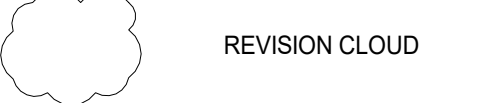
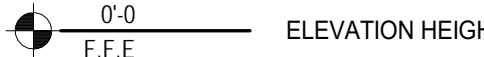
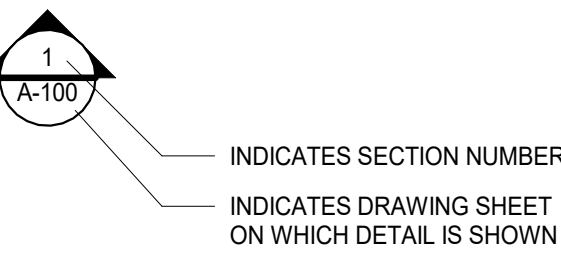
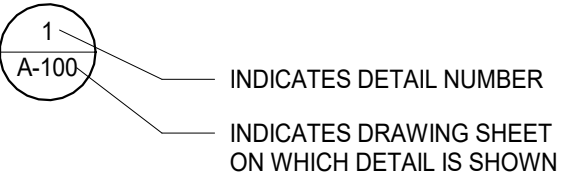
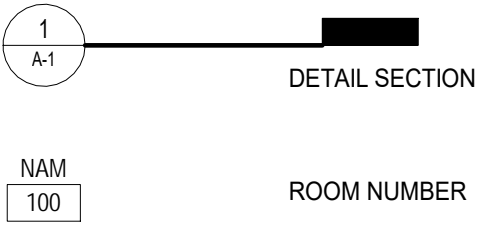


UTRGV - SCHOOL OF MEDICINE - JACKSON RD.

MATERIAL DESIGNATION



GRAPHIC SYMBOLS



ABBREVIATIONS

| | | | | | | | |
|---|--|---|--|--|--|---|--|
| & L C @ ~ ~ (E) | AND ANGLE CHANNEL AT CENTERLINE DIAMETER/ROUND POUND OR NUMBER EXISTING | DIV. DN. D.O. DR. DTL. D.W. DWG. DWR. | DIVISION DOWN DOOR DOWNPOUT DETAIL DISHWASHER DRAWINGS DRAWER | J. JAN. JT. KIT. L. LAB. LAD. LAM. LAV. LBL. L.H. LKR. L.P.T. LT. LTL. | JOIST JANITOR JOINT KITCHEN LENGTH LABORATORY LADDER LAMINATE LAVATORY LABEL LEFT HAND LOCKER LOW POINT LIGHT LINTEL | REQ. RESIL. RET. REV. RFG. RFL. RGTR. R.H. RM. R.O. R.O.W. | REQUIRED RESILIENT RETURN REVISION ROOFING REFLECT(ED)(VE)(OR) REGISTER RIGHT HAND ROOM RROUGH OPENING RIGHT OF WAY |
| ABV. ACOUS. ADD. ADJ. A.F.F. AGG. AL. ALT. APPROX. ASB. ASPH. AUTO. | ABOVE ACOUSTICAL ADDENDUM ADJUSTABLE ABOVE FINISHED FLOOR AGGREGATE ALUMINUM ALTERNATE APPROXIMATELY ARCHITECT(URE) ASBESTOS ASPHALT AUTOMATIC | EA. ELEV. ELEC. EMER. ENCL. EQUIP. ESTM. EXH. EXP. EXPO. EXST. EXT. | EACH EXPANSION JOINT ELEVATION ELECTRICAL EMERGENCY ENCLOSURE EQUIPMENT ESTIMATE EXHAUST EXPANSION EXPOSED EXISTING EXTERIOR | MAS. MAX. MECH. MEMB. MPFR. MH. MIN. MIR. MISC. M.O. MOD. MT. MTL. | MASONRY MAXIMUM MECHANICAL MEMBRANE MANUFACTURER MANHOLE MINIMUM MIRROR MISCELLANEOUS MASONRY OPENING MODULAR MOUNT(ED)(ING) METAL | S.C. SCHED. SECT. SH. SHR. SHTH. SIM. SPEC. SPK. SQ. STD. STL. STOR. STRUCT. SUSP. SYM. SYN. SYS. | SOLID CORE SCHEDULE SECTION SHELF SHOWER SHEATHING SIMILAR SPECIFICATION SPEAKER SQUARE STANDARD STEEL STORAGE STRUCTURE SUSPENDED SYMBOL SYNTHETIC SYSTEM |
| BD. BET. BIT. BLDG. BLK. BM. B.S. B.W. | BOARD BETWEEN BITUMINOUS BUILDING BLOCK BEAM BOTH SIDES BOTH WAYS | F.B. F.B.O. F.D. FDN. F.F. FGL. FIN. FL. FLASH. | FACE BRICK FURNISHED BY OTHERS FLOOR DRAIN FOUNDATION FINISH FLOOR FIBERGLASS FINISH(ED) FLOOR FLASHING | N.I.C. NO. OR # NOM. N.T.S. | NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE | T. T.C. T & G THK. THR. T.O.P. T.O.S. T.O.W. TYP. TZ. | TREAD TOP OF CURB TONGUE AND GROOVE THICK THRESHOLD TOP OF PAVEMENT TOP OF STEEL TOP OF WALL TYPICAL TERRAZZO |
| CAB. CER. C.G. CHAM. C.H.T. C.I.P.C. CIR. CLO. CLR. C.M.T. CMU CNTR. C.O. COL. COMB. CONC. CONN. CONST. CONT. CONTR. CORR. CPT. CSMT. C.T. CTJ. CTSK. | CABINET CERAMIC CORNER GUARD CHAMFER CEILING HEIGHT CAST-IN-PLACE CONCRETE CIRCLE CLOSET CLEAR CERAMIC MOSAIC TILE CONCRETE MASONRY UNIT COUNTER CASE OPENING COLUMN COMBINATION CONCRETE CONNECTION CONSTRUCTION CONTINUOUS CONTRACT(OR) CORRIDOR CARPET CASEMENT CERAMIC TILE CENTER COUNTERSUNK | GA. GALV. G.C. GCMU GL. GLB. GND. GR. GROUT. GYP. | GAUGE GALVANIZED GENERAL CONTRACTOR GLAZED CMU GLASS GLASS BLOCK GROUND GRADE PLASTER GYPSUM | O.A. O.C. O.D. OFF. OPH. OPNG. OPP. | OVERALL ON CENTER OUTSIDE DIAMETER(DIM) OFFICE OPPOSITE HAND OPENINGS OPPOSITE | VAR. VB. V.B. VERT. VEST. VIN. V.P. V.T. | VARNISH VAPOR BARRIER VINYL BASE VERTICAL VESTIBULE VINYL VENEER PLASTER VINYL TILE |
| D. DBL. DEMO. DEPT. DIA. DIAG. DIM. | DRAIN DOUBLE DEMOLISH DEMOLITION DEPARTMENT DEPARTMENT DIAMETER DIAGONAL DIMENSION | H.C. H.D. HDB. HDR. HDW. HDWD. H.M. HORIZ. HOUR HT. | HOLLOW CORE HEAVY DUTY HARDBOARD HEADER HARDWARE HARDWOOD HOLLOW METAL HORIZONTAL HORIZONTAL HOUR HEIGHT | Q.T. | QUARRY TILE | W/ WB. WC. WD. WH. WIN. WID WP. WS. WSCT. W.W.F. WT. | WITH WOOD BASE WATER CLOSET WOOD WALL HUNG WINDOW WITHOUT WATER PROOF WATER STOP WAINGSCOT WELDED WIRE FABRIC WEIGHT |
| | | LD. INCL. INSUL. INT. INV. | INSIDE DIAMETER(DIM) INCLUDE(D)(ING) INSULATION INTERIOR INVERT | R. RAD. R.B. R.D. REF. REFR. REINF. | RISER RADIUS RUBBER BASE ROOF DRAIN REFERENCE REFRIGERATOR REINFORCED | | |

SHEET INDEX

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| G2.00 | GENERAL INFORMATION | M3.01 | MECHANICAL FLOOR PLAN - AREA | P2.02 | PLUMBING FLOOR PLAN - AREA B |
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| D5.01 | DEMOLITION WALL SECTIONS | | | P7.02 | PLUMBING DETAILS |
| CIVIL- | | ED.01 | DEMOLITION SITE PLAN | LANDSCAPING - | |
| Sheet Number | Sheet Name | E1.03 | Unnamed | Sheet Number | Sheet Name |
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| A2.01 | ENLARGED PARTIAL PLAN - NORTH | E6.03 | LIGHTING CONTROLS ONE LINE DIAGRAM | | |
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| | | E9.02 | ELECTRICAL DETAILS | | |

CODE ANALYSIS

| | |
|--|--|
| APPLICABLE CODES IBC2015, IMC2015, IPC2015, IFC2015, IECC2015, 2012 TEXAS ACCESSIBILITY STANDARDS | OCCUPANT LOAD TABLE 1004.1.1 8 OCCUP. 100 SF PER OCCUP. GROSS BUILDING SF OCCUPANCY CALCULATION 17,765/100=177.65 OCCUPANTS TOTAL NUMBER OF OCCUPANTS 178 OCCUPANTS |
| OWNER/CIENT UNIVERSITY OF TEXAS RIO GRANDE VALLEY SCHOOL OF MEDICINE SITE ADDRESS 3804 SOUTH JACKSON ROAD EDINBURG, TEXAS 78539 | EGRESS WIDTH PER OCCUPANT SERVED TABLE 1005.1.1 WITH SPRINKLER SYSTEM STAIRWAYS: 0.2" PER OCCUP. (W/SPRINK.) OTHER EGRESS COMPONENTS: 0.3" EGRESS WIDTH REQUIRED PER FLOOR: 35'-5/8" EGRESS WIDTH PROVIDED: 33'-0" |
| BUILDING DESCRIPTION REMODEL / RENOVATION / TENANT FINISH OUT REMODEL TO EXISTING SHELL BUILDING | EXIT ACCESS TRAVEL DISTANCE TABLE 1010.2 TRAVEL DISTANCE W/ SPRINKLER SYSTEM 8 OCCUPANCY 300 FT W/SPRINK. |
| OCCUPANCY CLASSIFICATION GROUP B - BUSINESS (CLINIC/OUTPATIENT) | MINIMUM NUMBER OF EXITS SEC. 303 MINIMUM NUMBER OF EXITS 2 NUMBER OF EXITS PROVIDED 11 |
| AFFECTED BUILDING AREA OVERALL BUILDING SQUARE FOOTAGE 17,765 GSF | MINIMUM NUMBER OF PLUMBING FIXTURES SEC. 2902.1 WATER CLOSETS: 1 PER 25 FOR 1ST 50, 1 FOR EA. 50 LAVATORIES: 1 PER 40 FOR 1ST 80, 1 PER EA 80 |
| BUILDING CONSTRUCTION TYPE TYPE II-B : PROTECTED WITH SPRINKLER (TYPE PER IBC SECTION 903.3.3.1) | 178-50-128=2 WC 12850-256=3 WC MINIMUM NUMBER OF WATER CLOSETS REQUIRED 13 |
| ALLOWABLE HEIGHT & BUILDING AREAS TABLE 500.2 ALLOWABLE B OCC. SF 23,000 SF PER FLOOR ALLOWABLE HEIGHT B OCC. 3 STORIES | 178-40-128=2 LAV 13800=1.73-2 LAV MINIMUM NUMBER OF LAVATORIES REQUIRED 4 NUMBER OF LAVATORIES PROVIDED 11 |
| FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS TYPE II-B PRIMARY STRUCTURAL FRAME BEARING WALLS EXTERIOR INTERIOR NONBEARING WALLS & PARTITIONS FLOOR CONSTRUCTION ROOF CONSTRUCTION | |

OWNER:
The University of Texas
Rio Grande Valley
FACILITIES PLANNING AND CONSTRUCTION

1201 WEST UNIVERSITY DRIVE
EDINBURG, TEXAS 78539-2999
TEL.: (956) 665-2770
FAX: (956) 655-2771

PROJECT TEAM:

ARCHITECT
BOULTINGHOUSE SIMPSON GATES ARCHITECTS
3301 N. MCCOLL RD. | McALLEN, TEXAS 78501
TEL.: (956) 630-9494
FAX: (956) 630-2058

MECHANICAL, ELECTRICAL & PLUMBING

ETHOS ENGINEERING
119 W. VAN BUREN AVE #101 | HARLINGEN, TEXAS 78550
TEL.: (956) 230-3435
FAX: (956) 720-0830

CIVIL

CLH ENGINEERING INC.
701 S. 15TH ST. | McALLEN, TEXAS 78501
TEL.: (956) 687-5560

STRUCTURAL

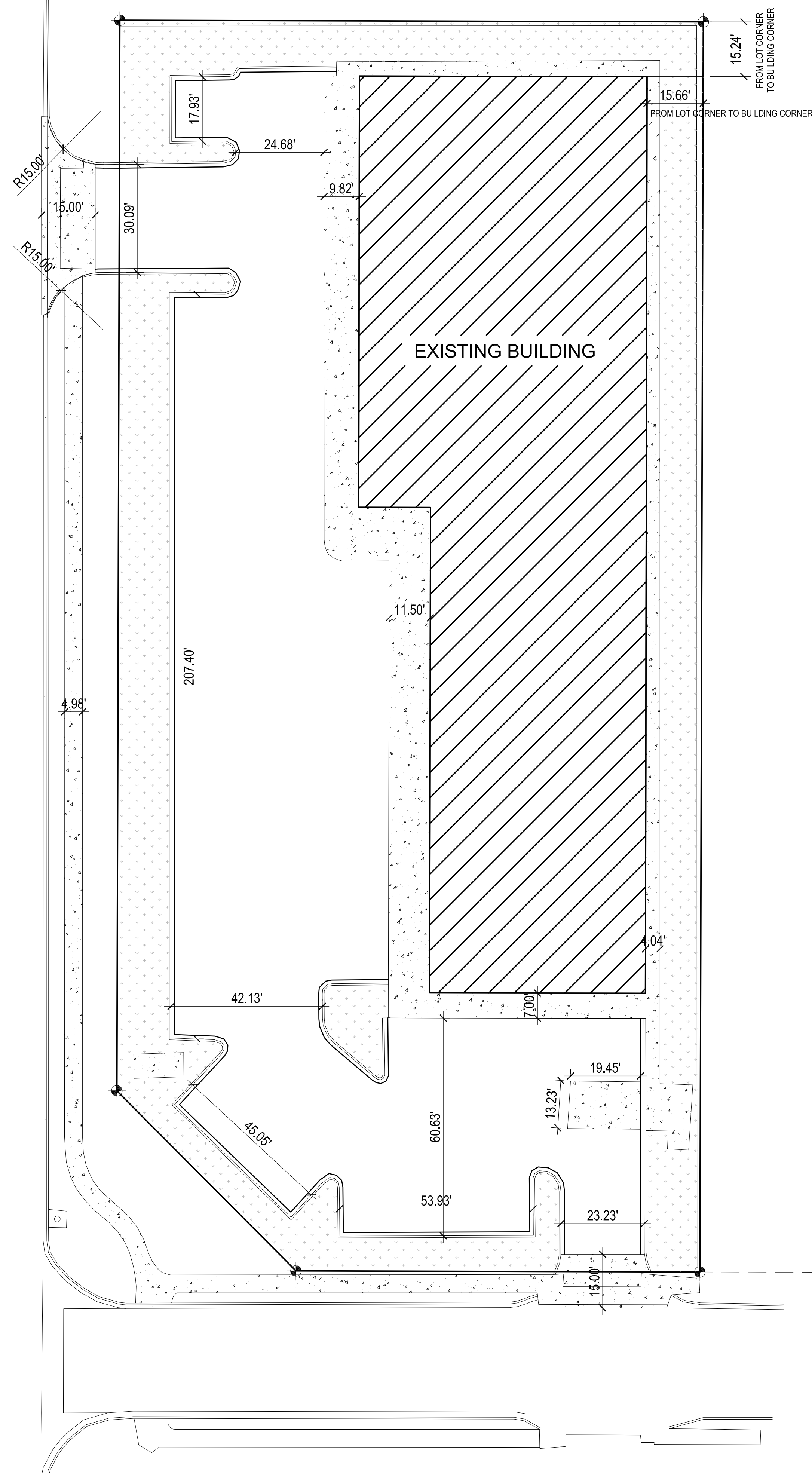
CLH ENGINEERING INC.
701 S. 15TH ST. | McALLEN, TEXAS 78501
TEL.: (956) 687-5560

LANDSCAPE

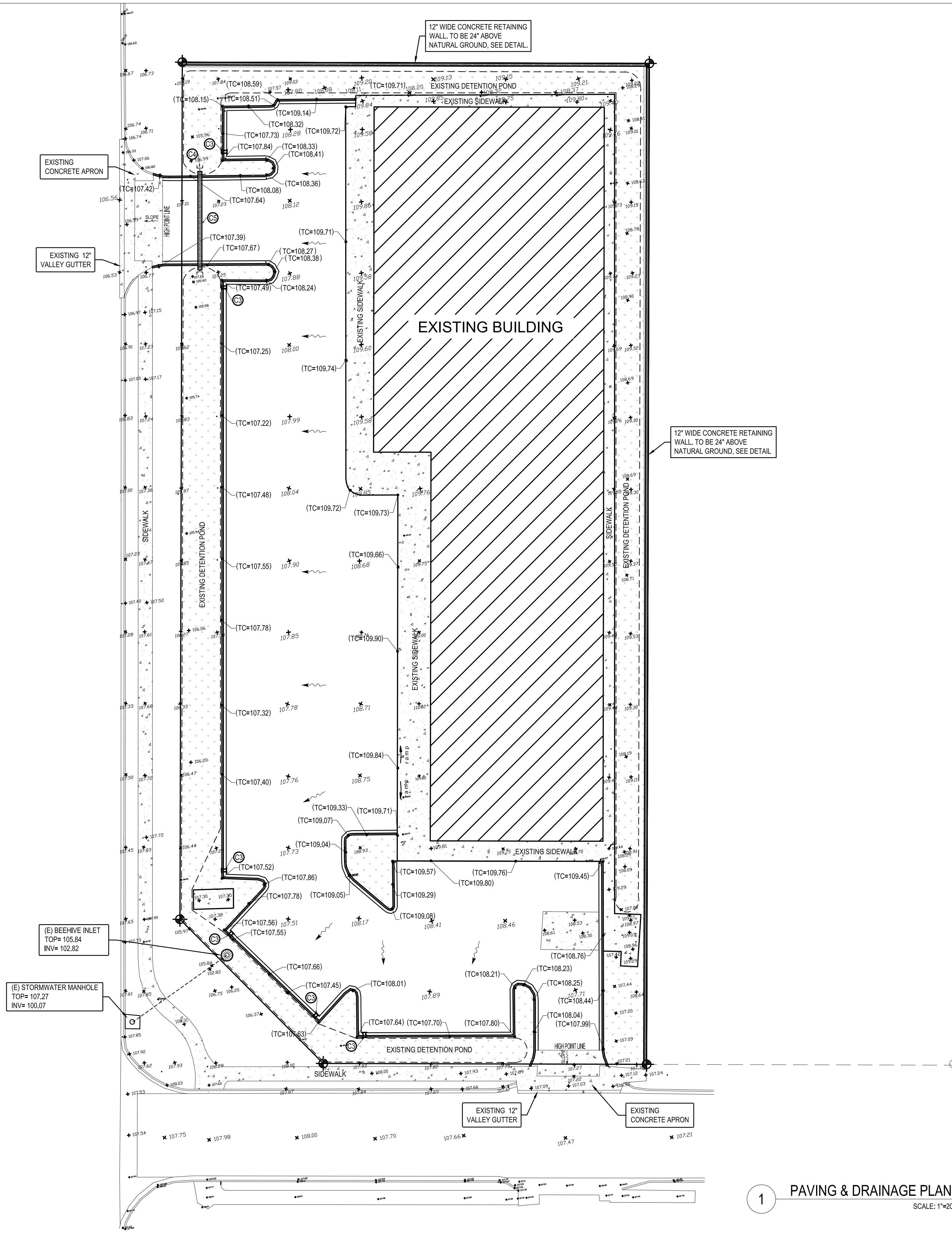
SSP DESIGN
789 E. WASHINGTON ST.
TEL.: (956) 547-9788
FAX: (956) 547-9977

VICINITY MAP





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| OCTOBER 22, 2018 | 01.0 |
| Scale | |
| As Noted | |



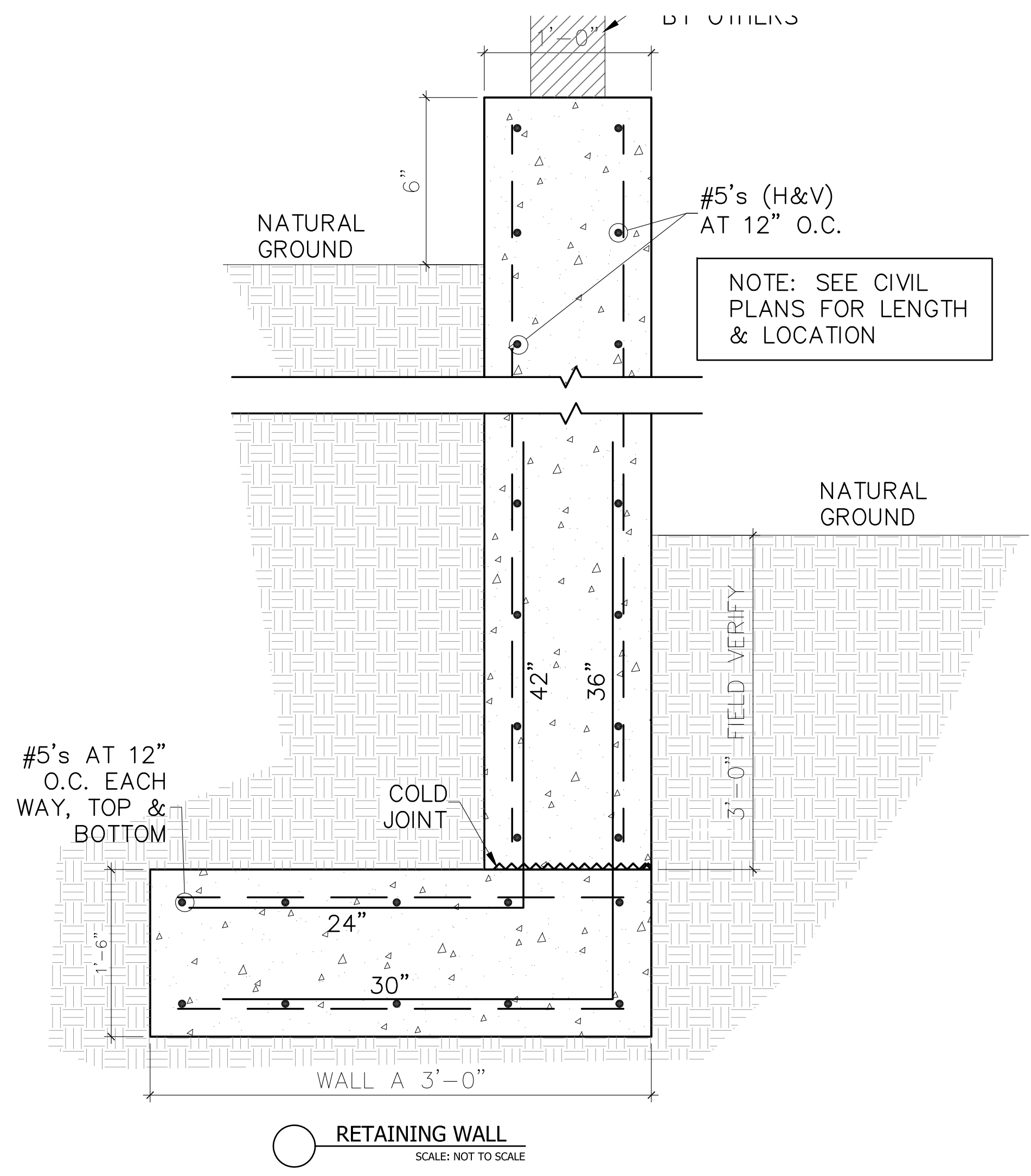
- GRADING NOTES:**
1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE CITY OF EDINBURG PLANS AND SPECIFICATIONS, EXCEPT AS NOTED HEREIN AND APPROVED BY THE CITY.
 2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY STANDARDS, TEXAS LAW, AND O.S.H.A. STANDARDS FOR ALL EXCAVATION IN EXCESS OF FIVE FEET IN DEPTH.
 3. THE LOCATION OF ALL UTILITIES LOCATED ON THESE PLANS ARE TAKEN FROM EXISTING PUBLIC RECORDS. THE EXACT LOCATION AND ELEVATION OF ALL PUBLIC UTILITIES MUST BE DETERMINED BY THE CONTRACTOR. IT SHALL BE THE DUTY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT.
 4. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC UTILITIES IN THE CONSTRUCTION OF THIS PROJECT. ALL MANHOLES, CLEAN-OUTS, VALVE BOXES, FIRE HYDRANTS, ETC. MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF PERMANENT PAVING. UTILITIES MUST BE MAINTAINED TO PROPER LINE AND GRADE CONSTRUCTION OF THE PAVING FOR THIS DEVELOPMENT.
 5. DRAINAGE SHOULD BE MAINTAINED AWAY FROM THE FOUNDATIONS, BOTH DURING AND AFTER CONSTRUCTION.
 6. BACKFILL FOR UTILITY LINES SHOULD BE CAREFULLY PLACED SO THAT THEY WILL BE STABLE. WHERE UTILITY LINES PASS THROUGH THE PARKING LOT, THE TOP 6" SHOULD BE COMPACTED SIMILARLY TO THE REMAINDER OF THE LOT. UTILITY DITCHES SHOULD BE VISUALLY INSPECTED DURING THE EXCAVATION PROCESS TO ENSURE THE UNDESIRABLE FILL IS NOT USED.
 7. ALL EARTHWORK OPERATIONS SHALL CONFORM TO THE RECOMMENDATIONS PER THE GEOTECHNICAL REPORT.
 8. ALL PROPOSED SPOT SHOTS ARE GUTTER/TOP OF PAVEMENT/ FINISHED GRADE ELEVATIONS UNLESS OTHERWISE SPECIFIED.

- NOTES:**
1. CONTRACTOR SHALL FILL TO GRADE ALL AREAS BETWEEN CURBS, SIDEWALKS, BUILDING.
 2. CONTRACTOR SHALL INSTALL IRRIGATION SLEEVES (4" SCH 80) AS SHOWN. COORDINATE WITH LANDSCAPE PLAN FOR ADDITIONAL INFORMATION.
 3. CONTRACTOR SHALL MAINTAIN 2% OR LESS AT HANDICAP ACCESSIBLE PARKING AREAS.
 4. CONTRACTOR SHALL PREPARE SITE AND REMOVE ANY EXISTING ASPHALT/CONCRETE WITHIN PROJECT LIMITS TO COMPLETE CONSTRUCTION.
 5. EXPANSION JOINTS & CONSTRUCTION JOINTS NOT TO EXCEED 20' ON CENTER TO EACH DIRECTION.
 6. HAND RAILS AT STEPS & RAMPS PER ARCHL DRAWINGS.
 7. 4' SIDEWALK SHALL BE PLACED AT A MINIMUM OF 3' BEHIND EXISTING CURB WITHIN THE COMMON ACCESS EASEMENT. IF SPACING DOES NOT ALLOW ENOUGH CLEARANCE TO BUILD THE WALK WITHIN THE COMMON ACCESS EASEMENTS, THEN THE WALK WILL BE RESIZED TO 5' WIDTH AND BE PLACED DIRECTLY BEHIND THE COMMON ACCESS CURB & GUTTER.

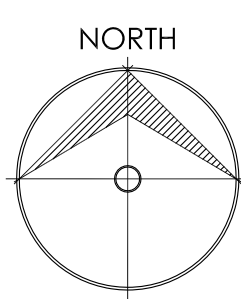
- LEGEND:**
- (TS=100.00) PROPOSED TOP OF SIDEWALK
 - (TP=100.00) PROPOSED TOP OF PAVEMENT
 - (TC=100.00) PROPOSED TOP OF CURB
 - (TS=100.00) EXISTING TOP OF SIDEWALK
 - (TC=100.00) EXISTING TOP OF CURB
 - (TP=100.00) EXISTING TOP OF PAVEMENT
 - (100.00) EXISTING ELEVATION
 - (C1) EXISTING HANDICAP RAMP
 - (C2) EXISTING SIDEWALK OPENING
 - (C3) EXISTING 12" CURB OPENING
 - (C4) (E) 8" PVC EQUALIZER w/ S.E.T. ON EACH SIDE.

NOTE:

1. THE PAVEMENT AREA MUST BE REDONE. THERE ARE TWO OPTIONS FOR THE PAVEMENT SECTION AS PER RABA KISTNER'S REPORT DATED AUGUST 20, 2018. THE FIRST OPTION IS FOR AN ASPHALT FLEXIBLE PAVEMENT, THIS WOULD BE TO REMOVE THE EXISTING BASE AND REPLACE WITH 8" LIME-TREATED SUBGRADE, 8" FLEXIBLE BASE MATERIAL, AND 2" OF ASPHALT. THE OTHER OPTION IS REMOVE BASE AND ADD 8" OF LIME-TREATED SUBGRADE AND 5-1/2" OF CONCRETE WITH STEEL REINFORCING. CURB AND GUTTER TO BE RE-DOE IF DAMAGED.
2. TWO SMALL AREAS OF SIDEWALK IN FRONT TO BUILDING SHOULD BE REPAIRED BY REMOVING SECTION AND PLACING A NEW 4" CONCRETE SIDEWALK.



1 PAVING & DRAINAGE PLAN
SCALE: 1"=20'



| General Notes | | |
|---------------|----------------|------|
| | | |
| | | |
| | | |
| No. | Revision/Issue | Date |

10-22-18

STATE OF TEXAS

C. HINOJOSA, JR.

90636

CLH

ENGINEERING, INC.

701 S. 15th STREET McALLEN, TX. 78501

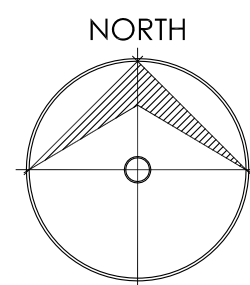
(956) 687-5560 (956) 687-5561 FAX

Project Name and Address or Nearest Intersection

UTRGV SOM

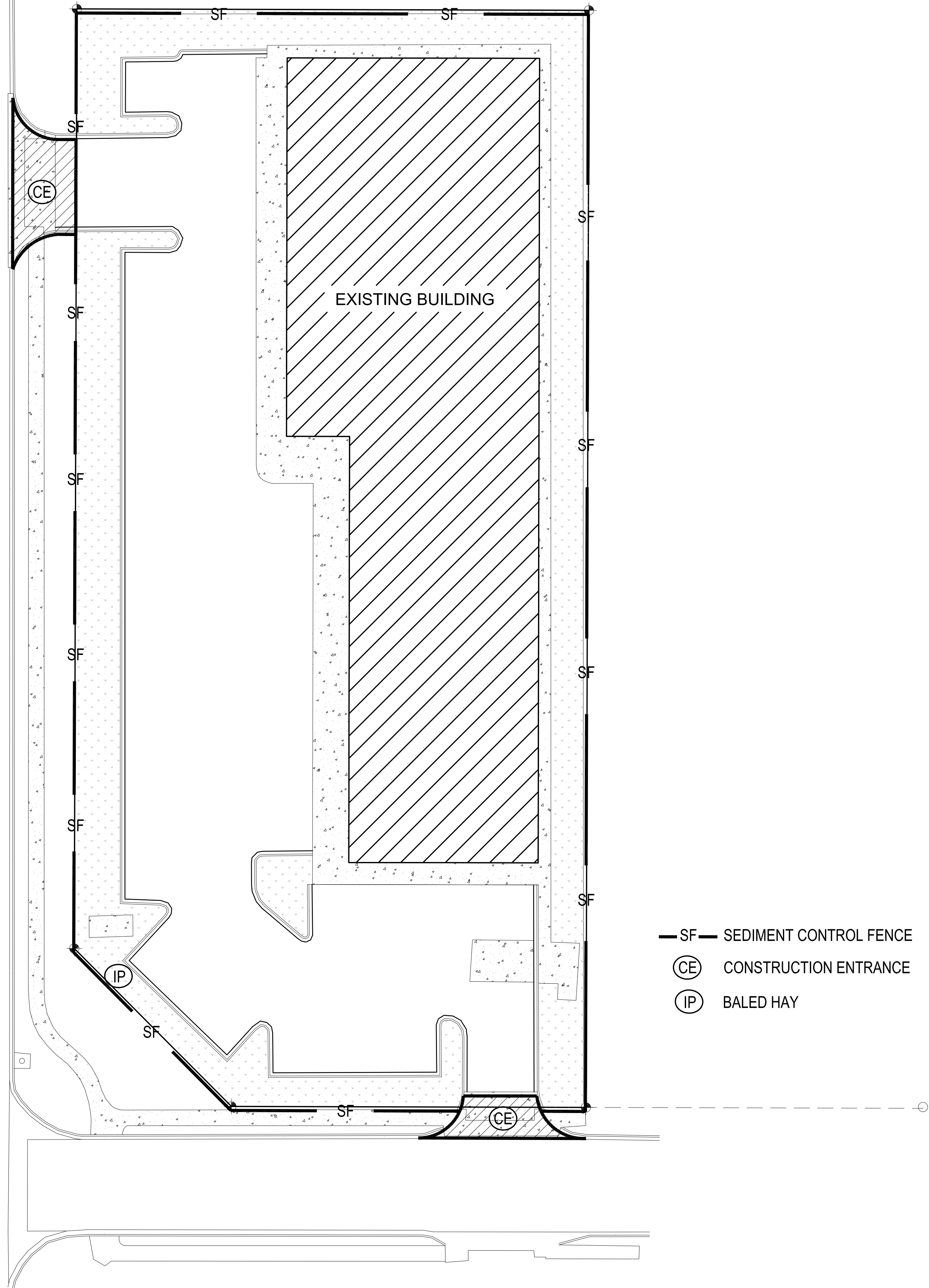
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| Sheet Title PAVING & DRAINAGE PLAN | Sheet |
| Date OCTOBER 22, 2018 | C2.0 |
| Scale As Noted | |



1 EROSION & SEDIMENT CONTROL PLAN

SCALE: 1"=20'



General Notes

| | | |
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| | | |
| No. | Revision/Issue | Date |

10-22-18

STATE OF TEXAS

C. HINGUOSA, JR.

90636

LICENSED PROFESSIONAL ENGINEER

C. Hingosa, Jr.

CLH

ENGINEERING, INC.

TBPE FIRM No. F-8719

701 S. 15th STREET McALLEN, TX. 78501

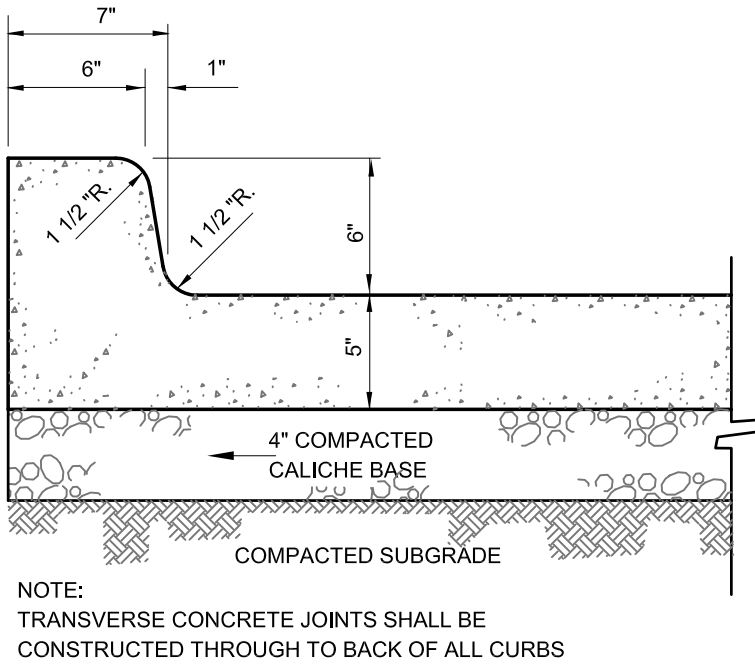
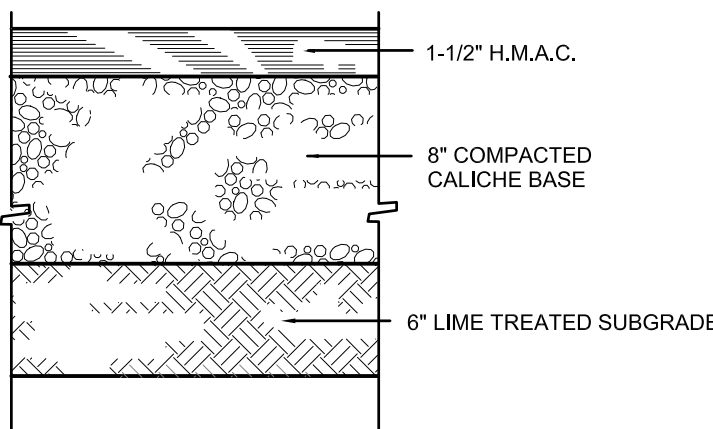
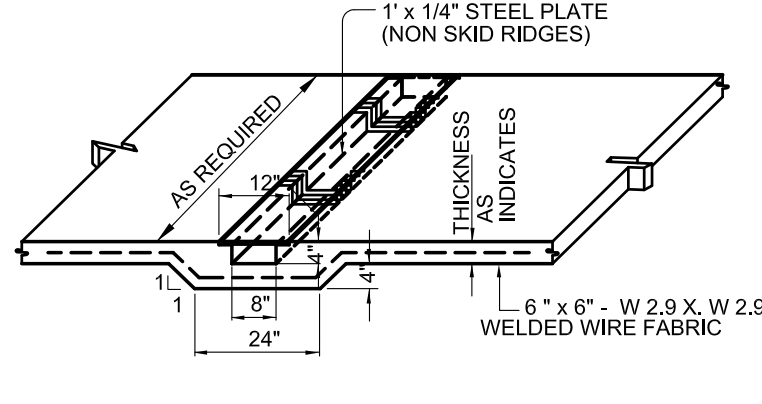
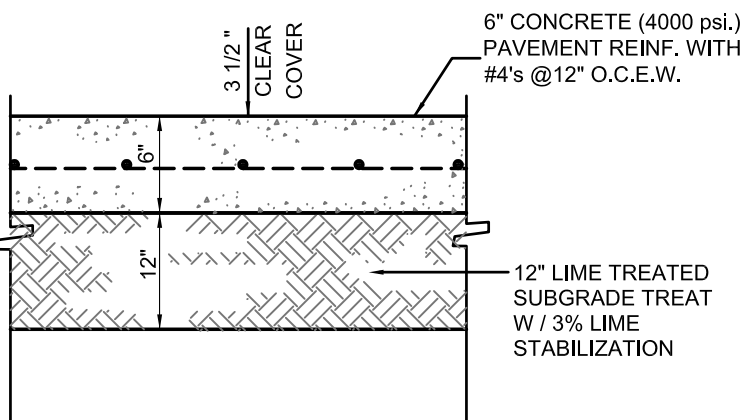
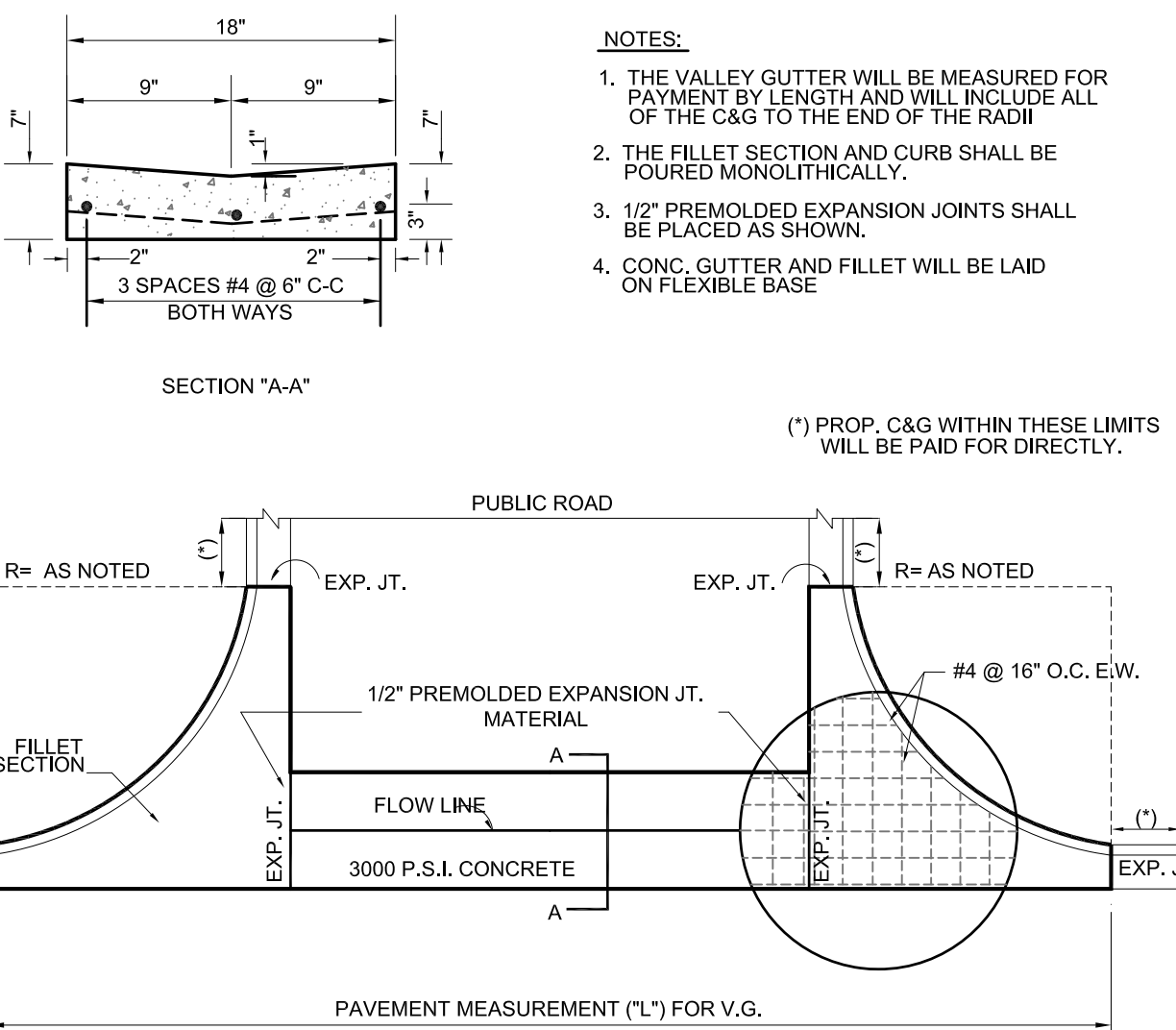
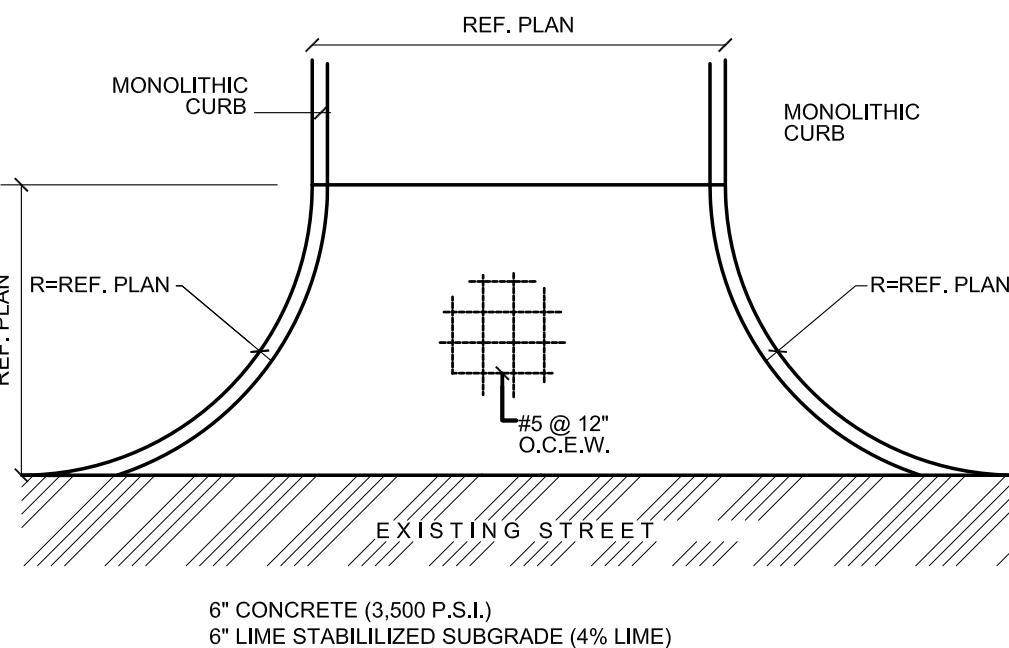
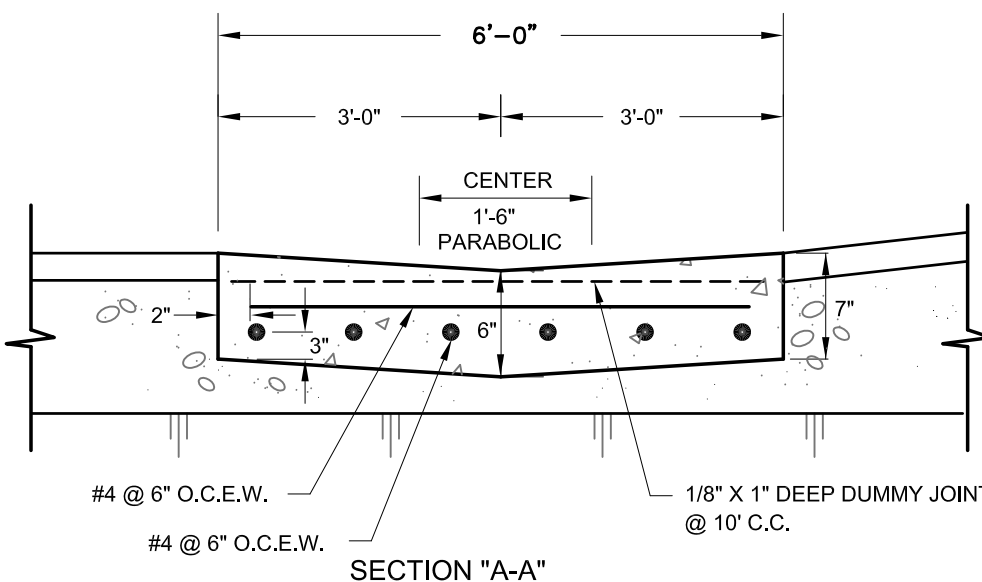
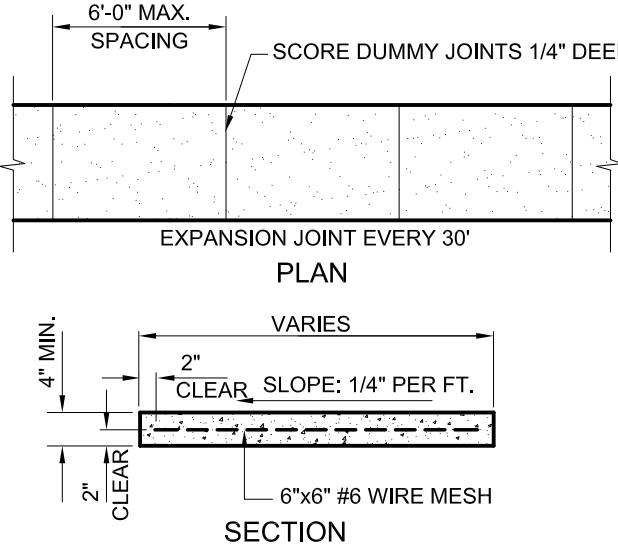
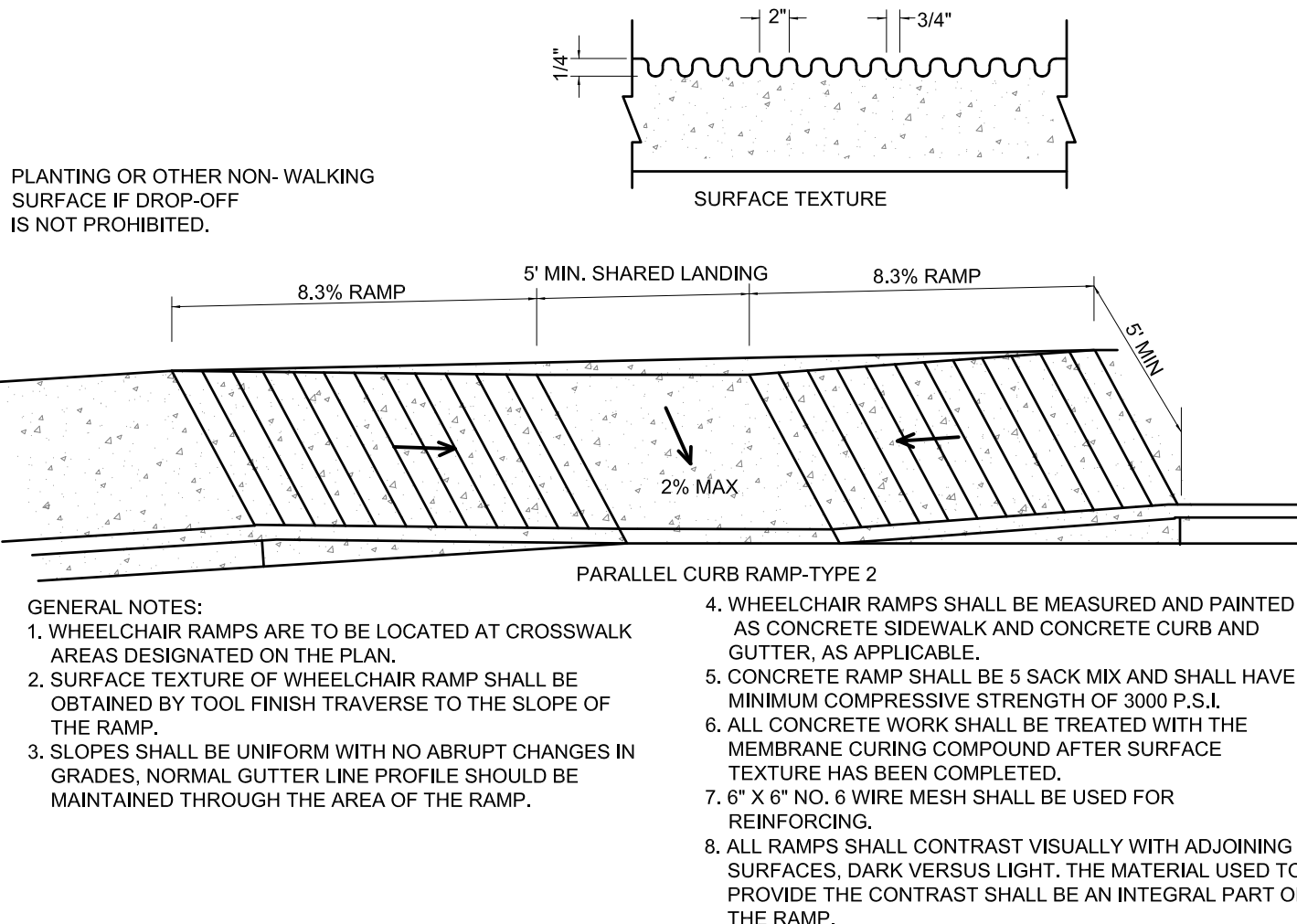
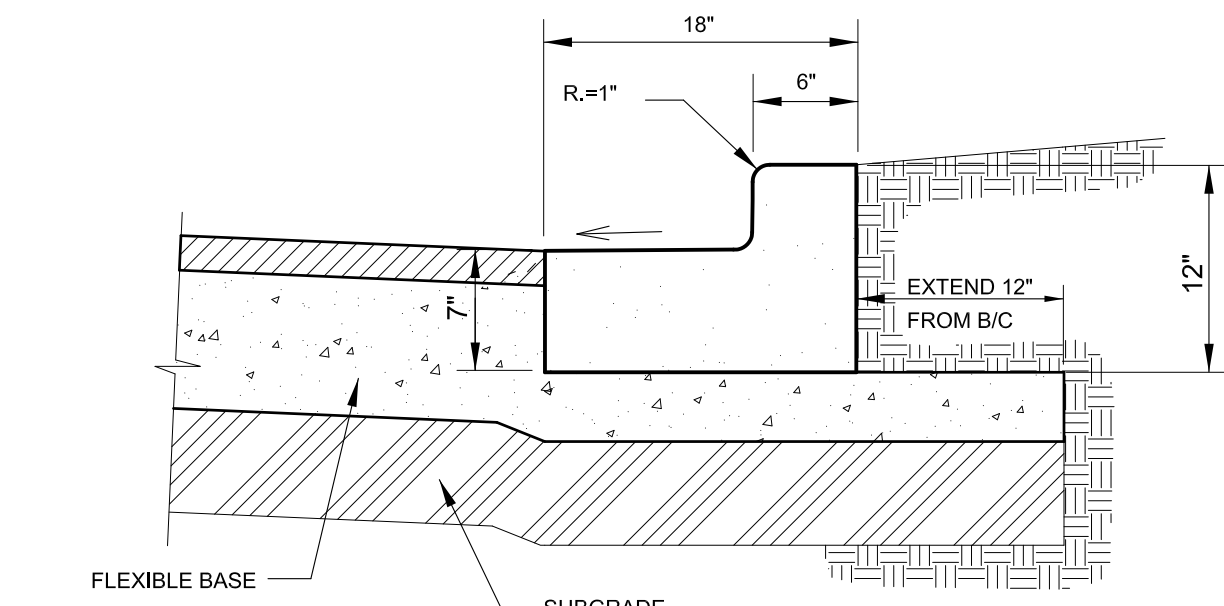
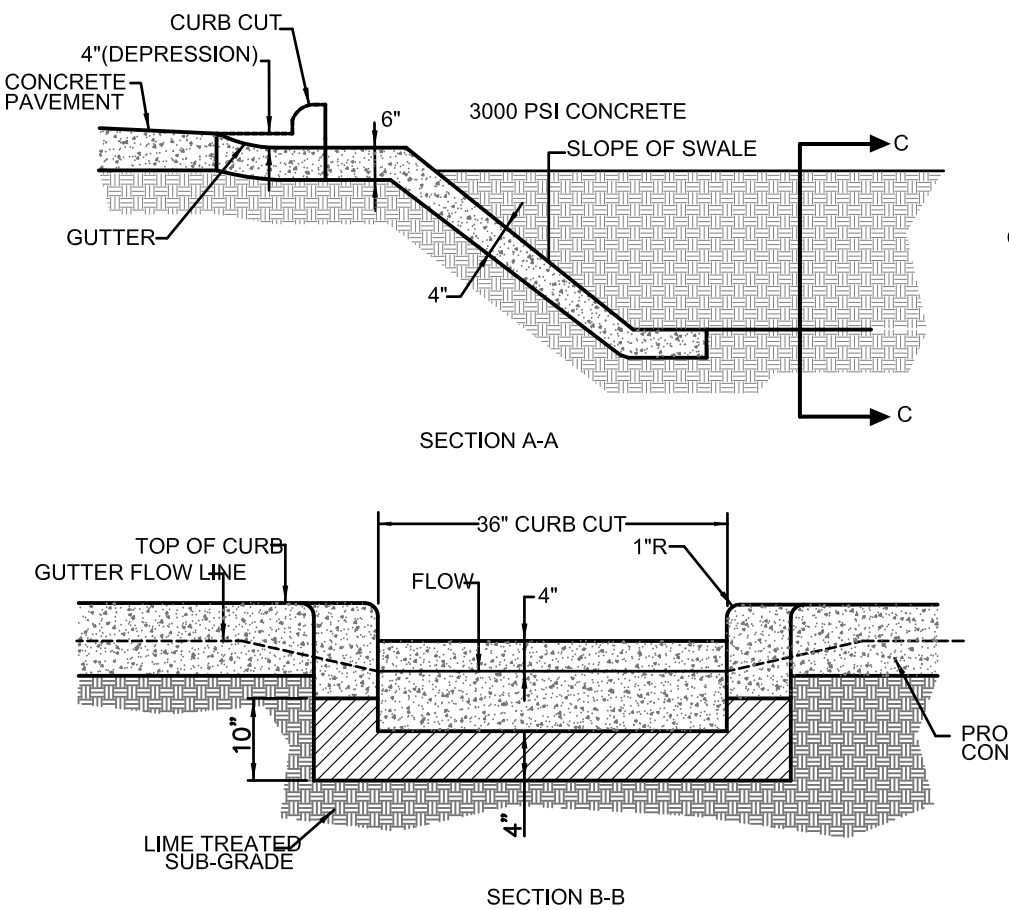
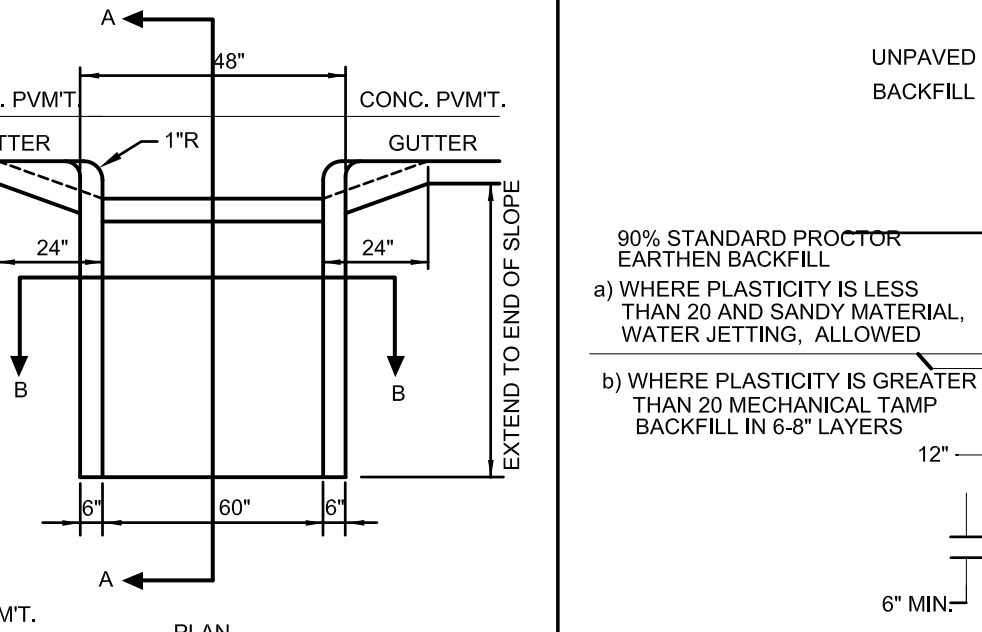
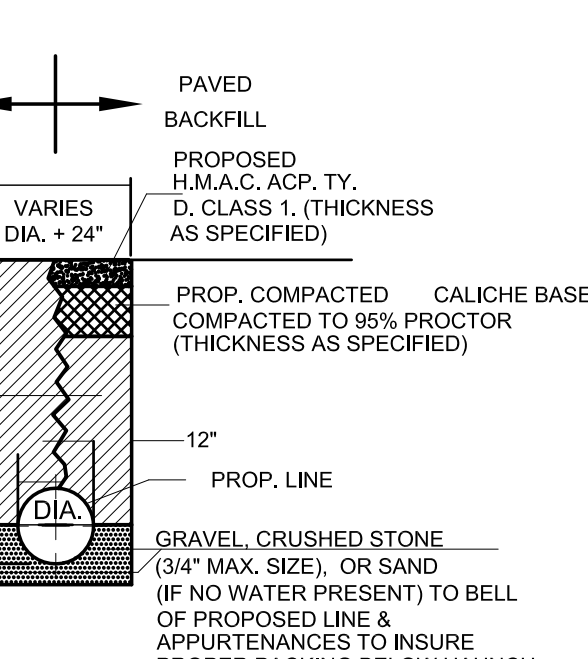
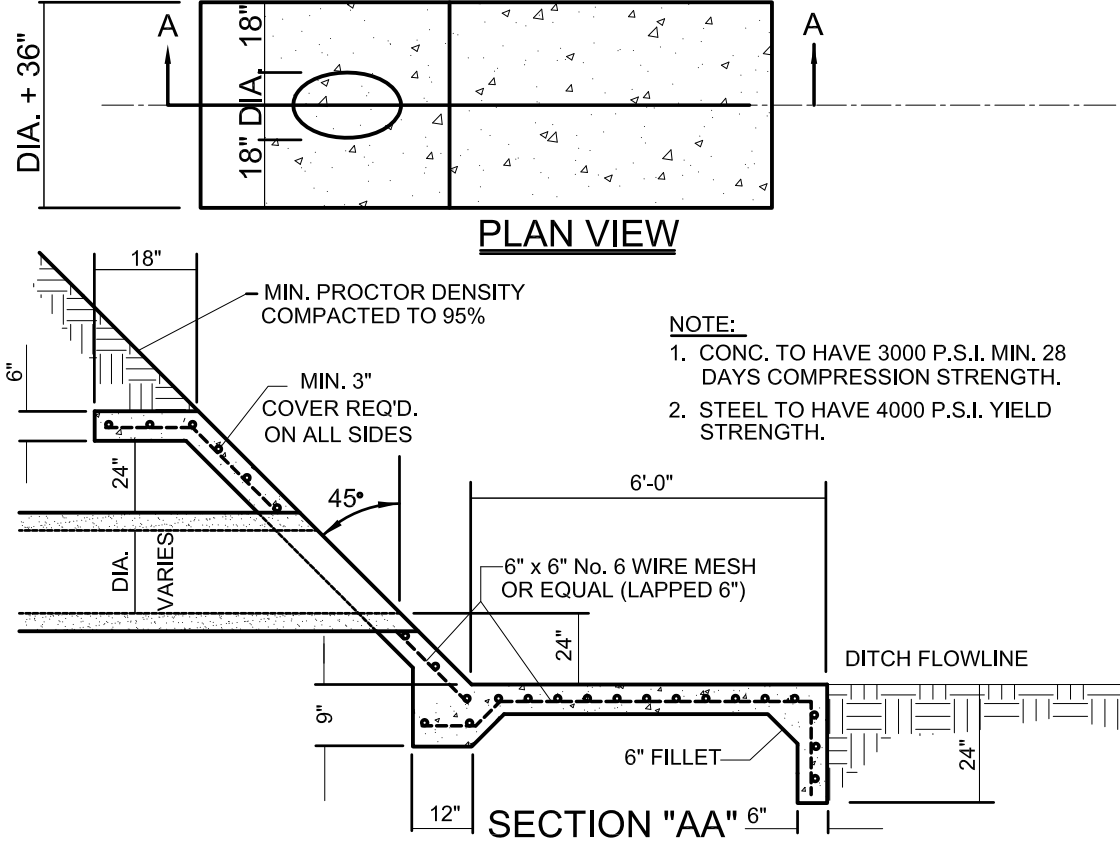
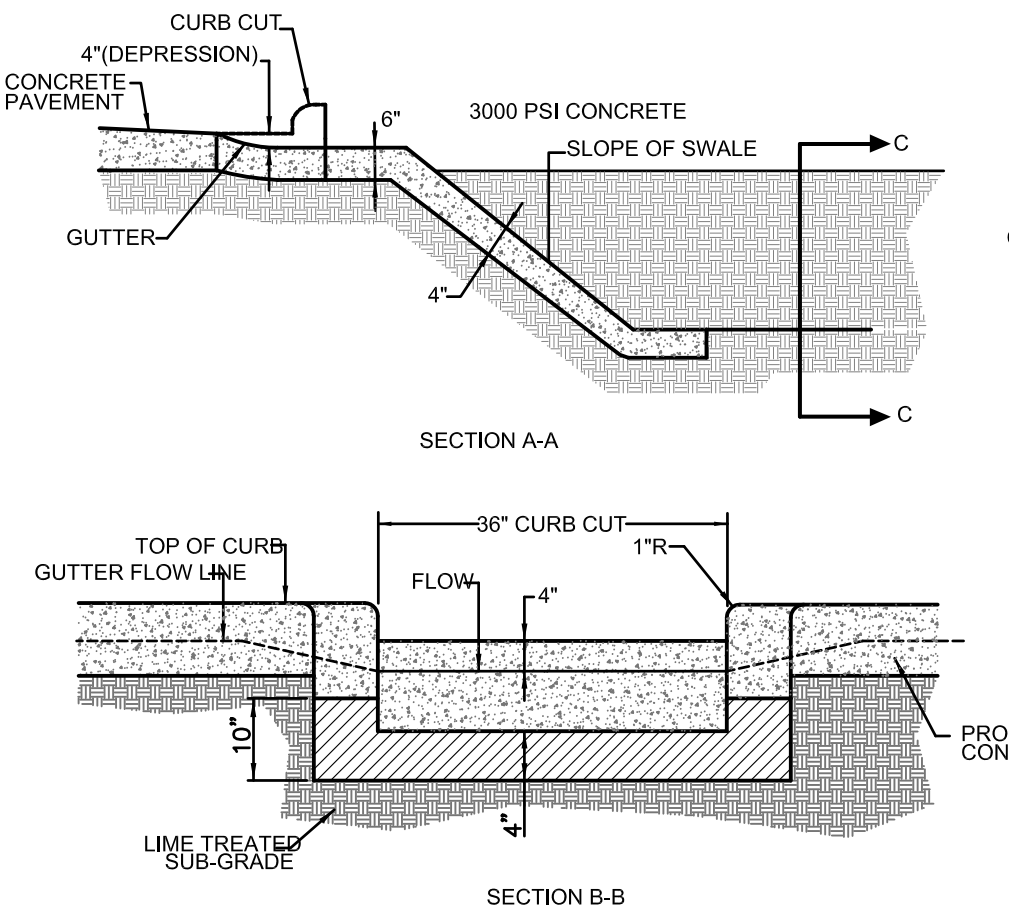
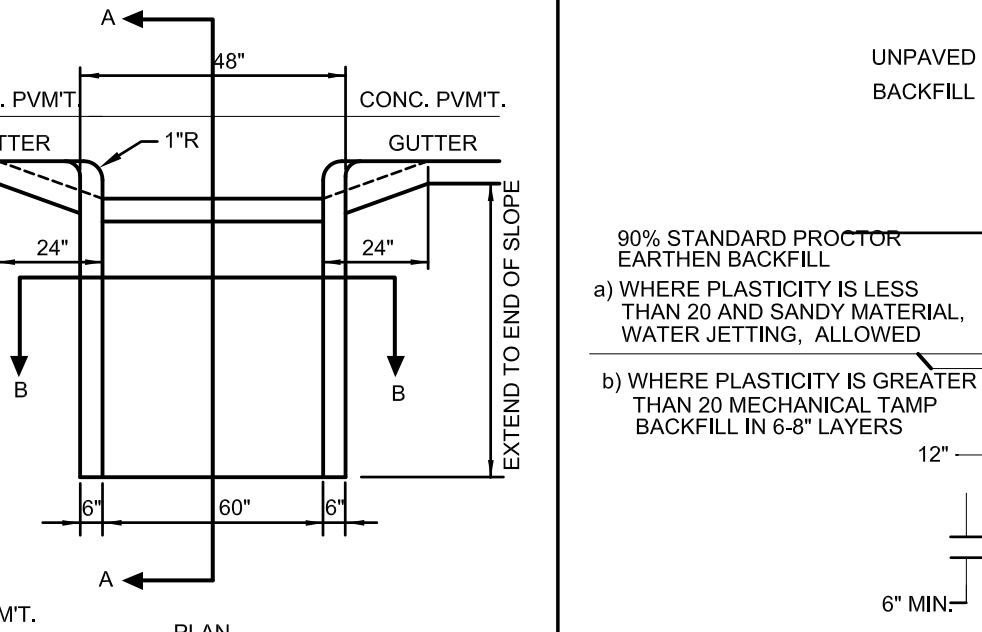
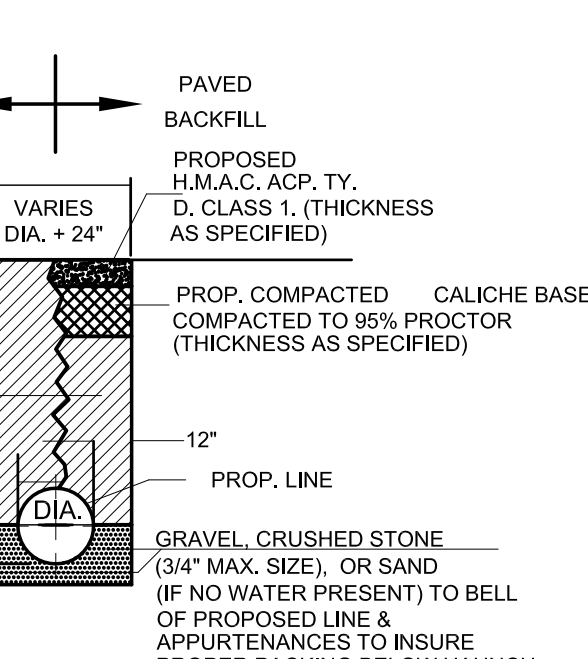
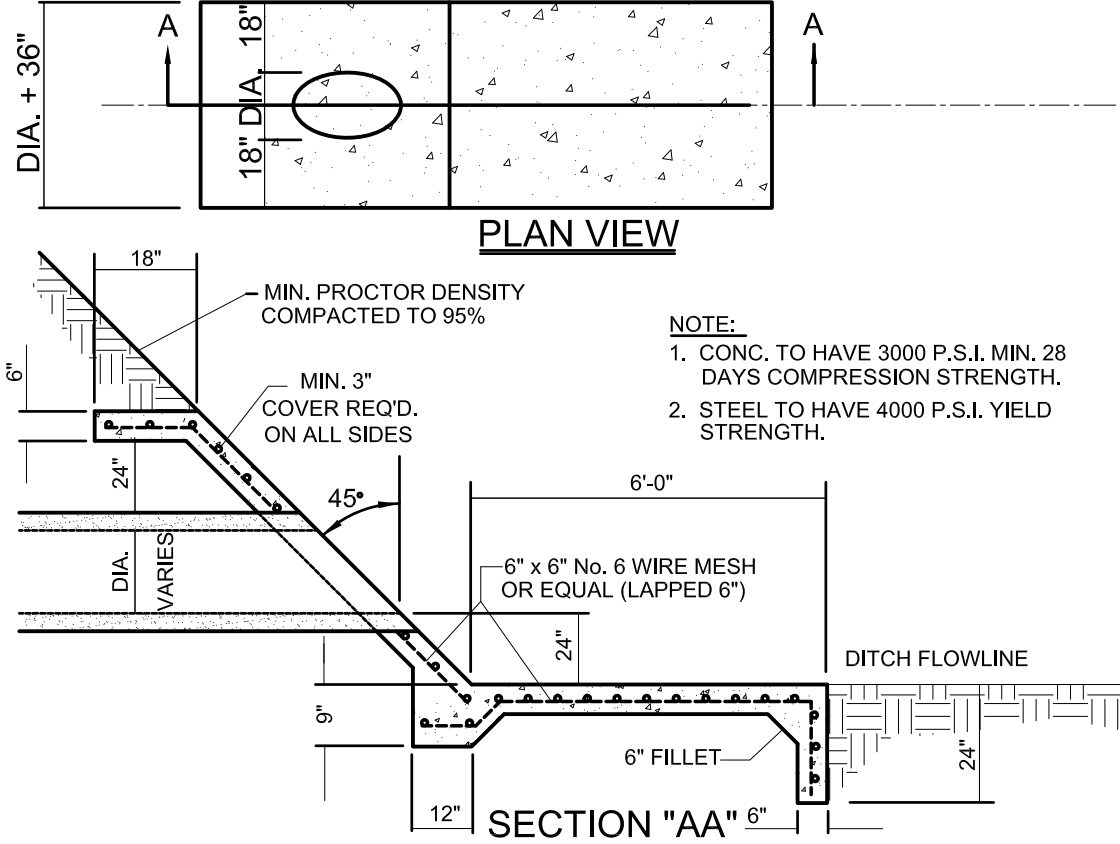
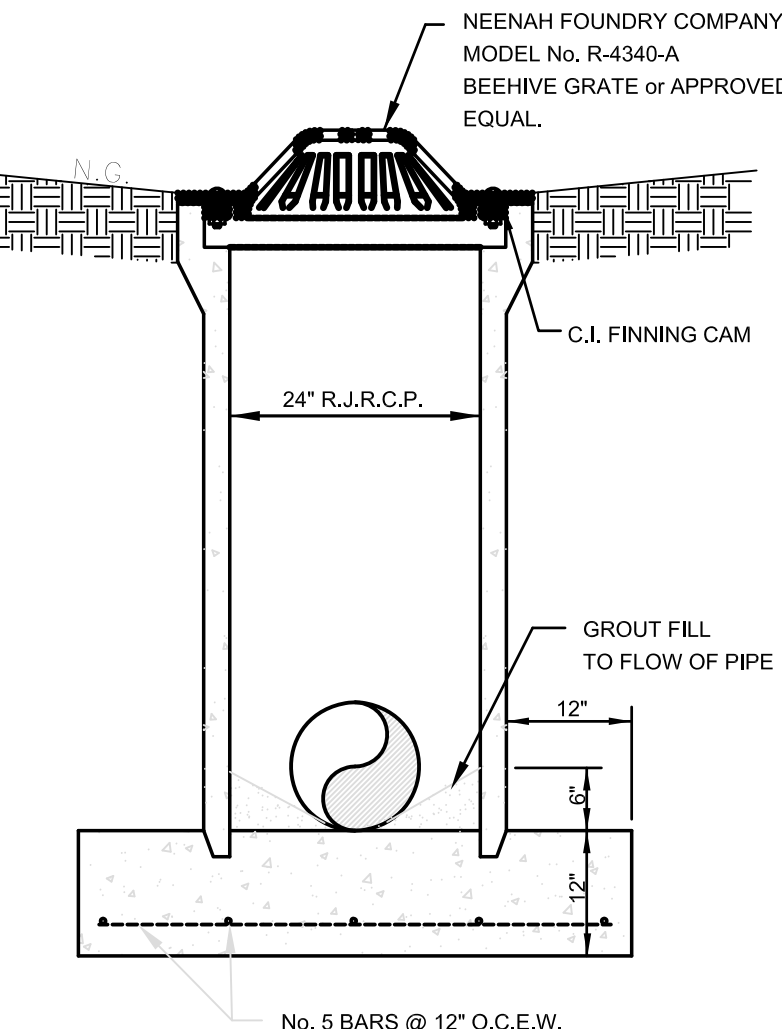
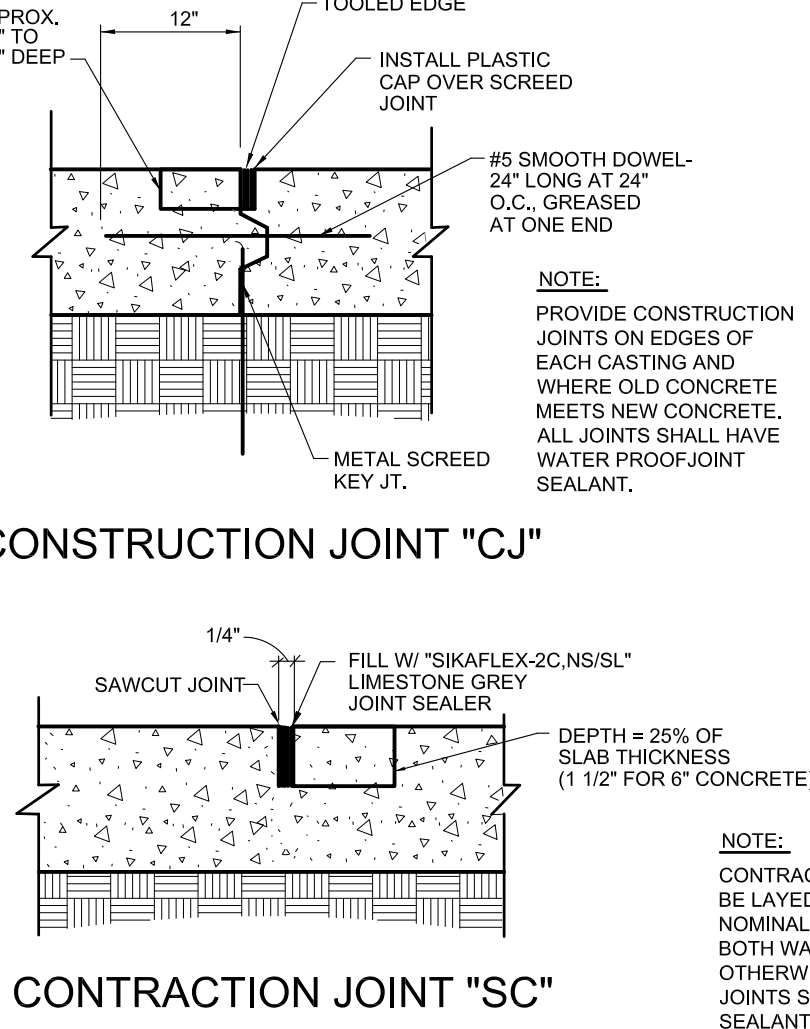
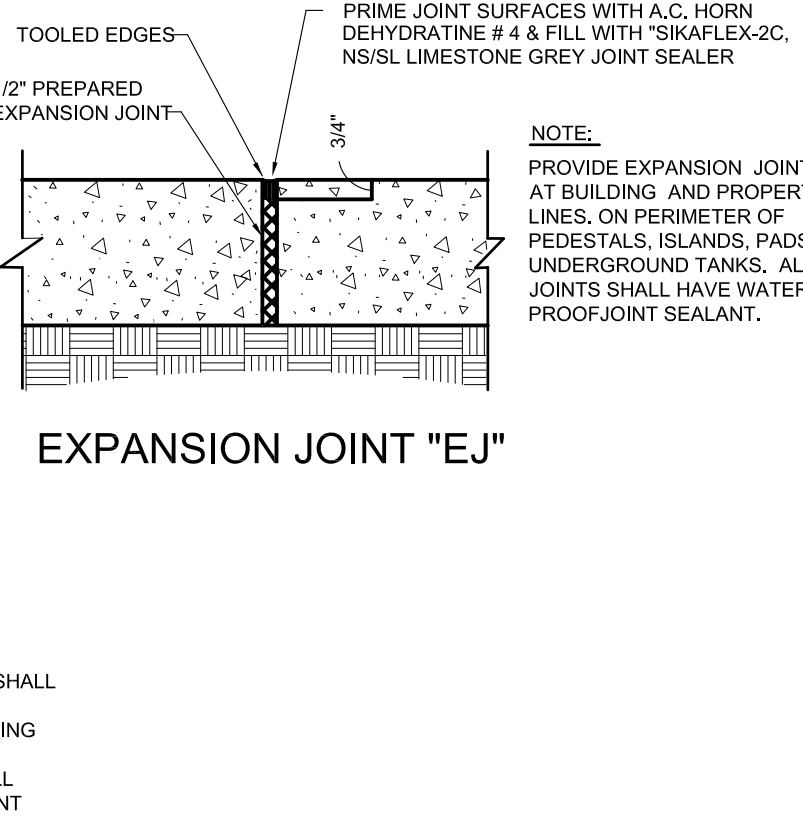
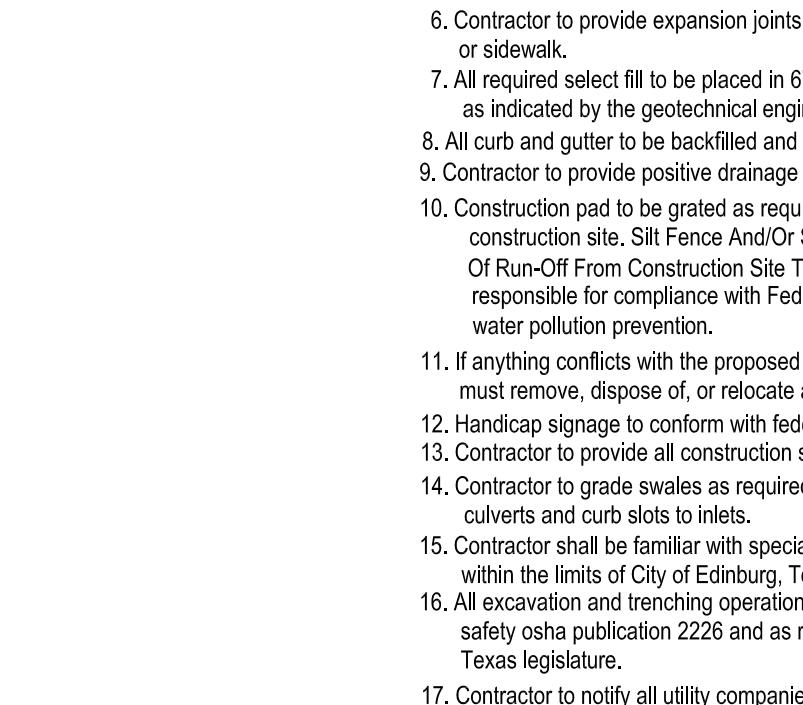
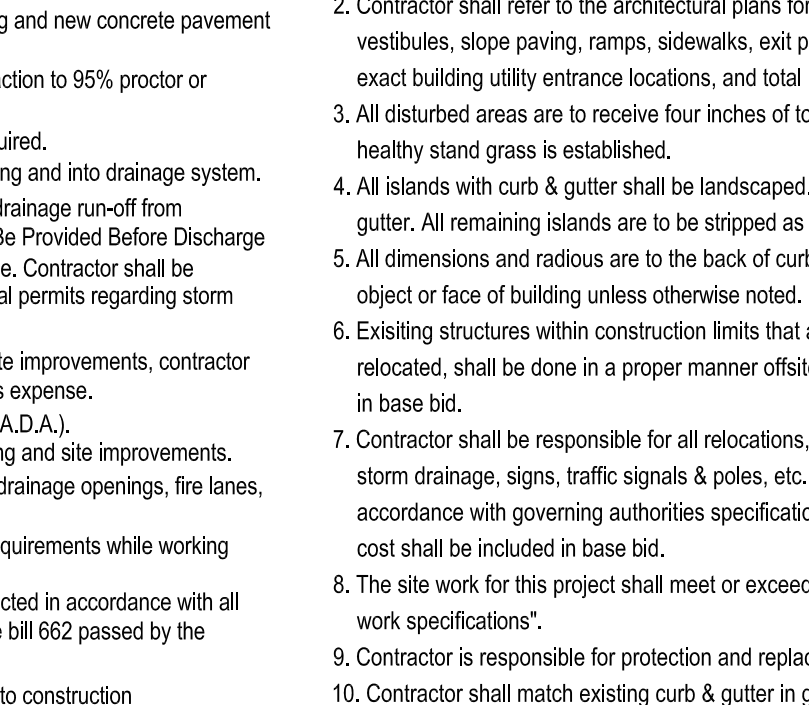
(956) 687-5560 (956) 687-5561 FAX

Project Name and Address or Nearest Intersection

UTRGV SOM

Owner:

| | |
|---------------------------------|------|
| Sheet Title | C4.0 |
| EROSION & SEDIMENT CONTROL PLAN | |
| Date | |
| OCTOBER 22, 2018 | |
| Scale | |
| As Noted | |

| | | | | | | | | | | | | | | | | | | | |
|--|---------------------------------|---|--------------------------------------|---|---------------------------|---|---------------------------|--|--|---|--|---|--|---|--|---|---------------------------|---|--|
|  | |  | |  | |  | |  | |  | |  | |  | |  | | General Notes | |
| 1. | INTEGRAL CURB | 2. | ASPHALT PAVEMENT SECTION | 3. | SIDEWALK DRAINAGE OPENING | 4. | CONCRETE PAVEMENT SECTION | <p>PLANTING OR OTHER NON- WALKING SURFACE IF DROP-OFF IS NOT PROHIBITED.</p> <p>SURFACE TEXTURE</p> <p>PARALLEL CURB RAMP-TYPE 2</p> <p>GENERAL NOTES:</p> <p>1. WHEELCHAIR RAMPS ARE TO BE LOCATED AT CROSSWALK AREAS DESIGNATED ON THE PLAN.</p> <p>2. SURFACE TEXTURE OF WHEELCHAIR RAMP SHALL BE OBTAINED BY TOOL FINISH TRAVERSE TO THE SLOPE OF THE RAMP.</p> <p>3. SLOPES SHALL BE UNIFORM WITH NO ABRUPT CHANGES IN GRADES, NORMAL GUTTER LINE PROFILE SHOULD BE MAINTAINED THROUGH THE AREA OF THE RAMP.</p> <p>4. WHEELCHAIR RAMPS SHALL BE MEASURED AND PAINTED AS CONCRETE SIDEWALK AND CONCRETE CURB AND GUTTER, AS APPLICABLE.</p> <p>5. CONCRETE RAMP SHALL BE 5 SACK MIX AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I.</p> <p>6. ALL CONCRETE WORK SHALL BE TREATED WITH THE MEMBRANE CURING COMPOUND AFTER SURFACE TEXTURE HAS BEEN COMPLETED.</p> <p>7. 6" X 6" NO. 6 WIRE MESH SHALL BE USED FOR REINFORCING.</p> <p>8. ALL RAMPS SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, DARK VERSUS LIGHT. THE MATERIAL USED TO PROVIDE THE CONTRAST SHALL BE AN INTEGRAL PART OF THE RAMP.</p> | | | | | | | | | | | |
| 5. | CONCRETE VALLEY GUTTER |  | |  | |  | |  | |  | | 8. | | TYPICAL CONC. SIDEWALK DETAIL | | 9. | SIDEWALK RAMP | <p>No.</p> <p>Revision/Issue</p> <p>Date</p> | |
| 10. | SPILLWAY CONCRETE CURB & GUTTER | 11. | TYP. CURB OPENING w/ SPILLWAY DETAIL |  | |  | |  | |  | | 12. | | PIPE BEDDING DETAILS | | 13. | STORM DISCHARGE STRUCTURE | <p>10-22-18</p> <p>STATE OF TEXAS</p> <p>C. HINOJOSA, JR.</p> <p>90636</p> <p>LICENSED PROFESSIONAL ENGINEER</p> <p>CLH ENGINEERING, INC.</p> <p>TBPE FIRM No. F-8719</p> <p>701 S. 15th STREET McALLEN, TX. 78501</p> <p>(956) 687-5560 (956) 687-5561 FAX</p> | |
| 14. | BEE-HIVE INLET |  | |  | |  | |  | |  | | 15. | | CONCRETE JOINT DETAIL | | Owner: | | Sheet Title PAVING & DRAINAGE DETAILS Date OCTOBER 22, 2018 Scale As Noted | |
| | | | | | | | | | | | | | | | | UTRGV SOM | | Sheet C5.0 | |



Project Name and Address or Nearest Intersection

UTRGV SOM

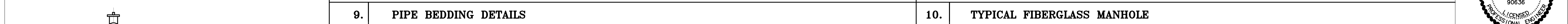
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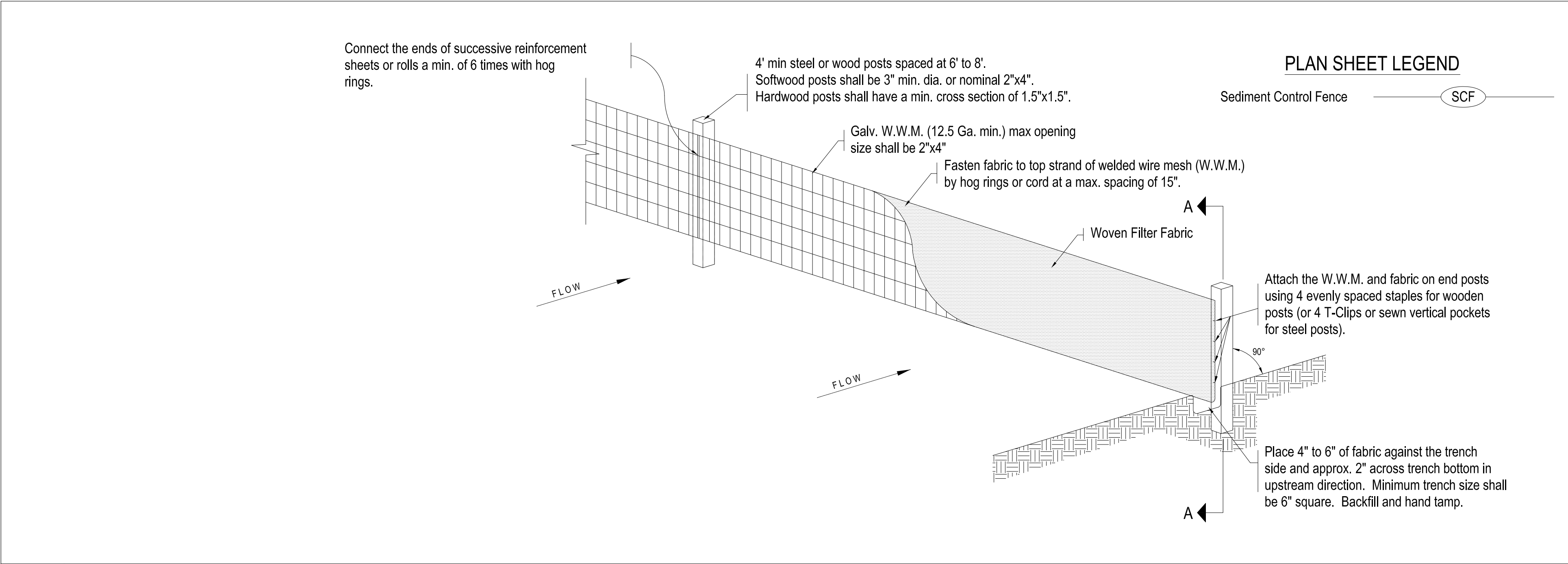
Sheet Title
PAVING & DRAINAGE
DETAILS

Date
OCTOBER 22, 2018

Scale
As Noted

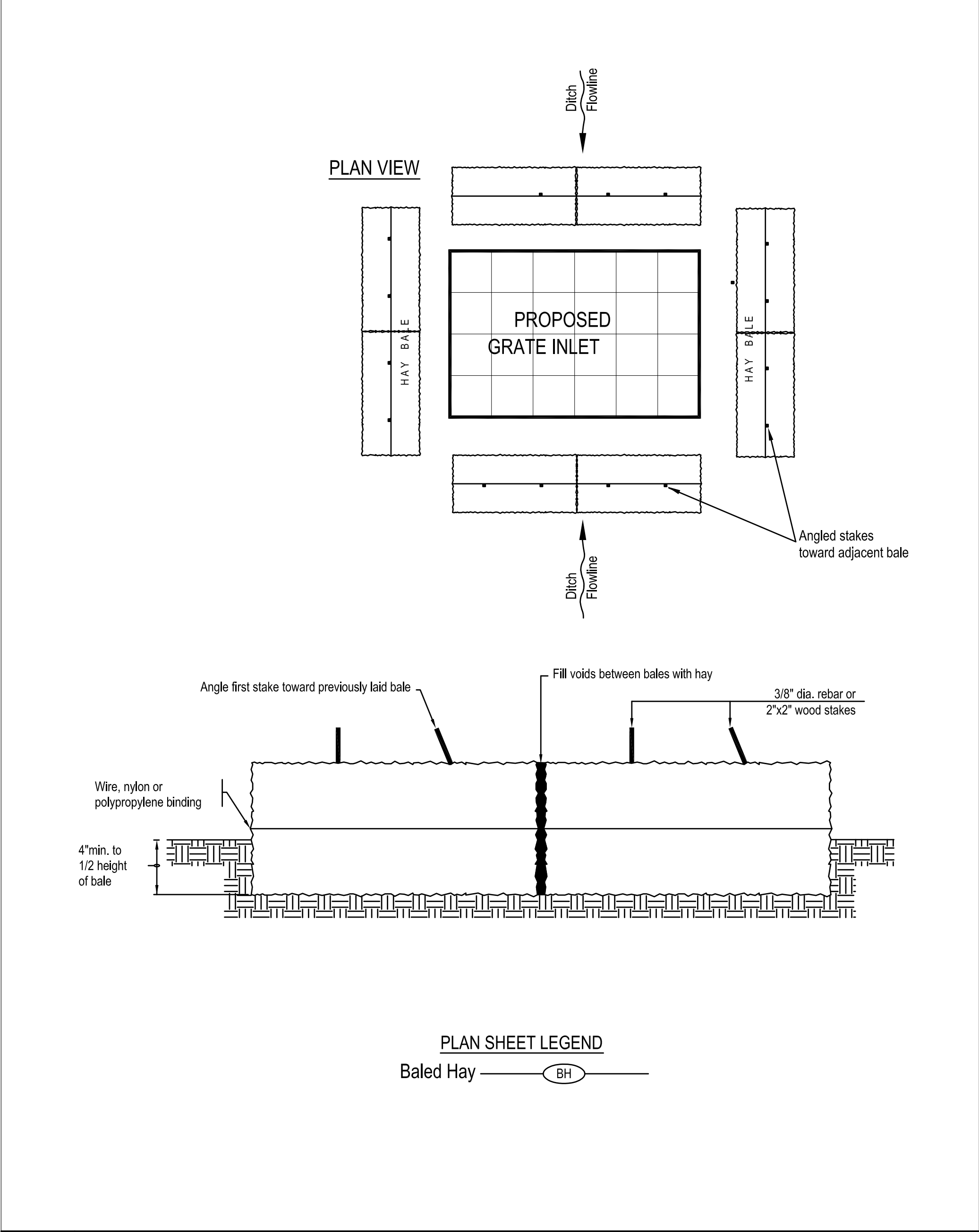
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C5.0





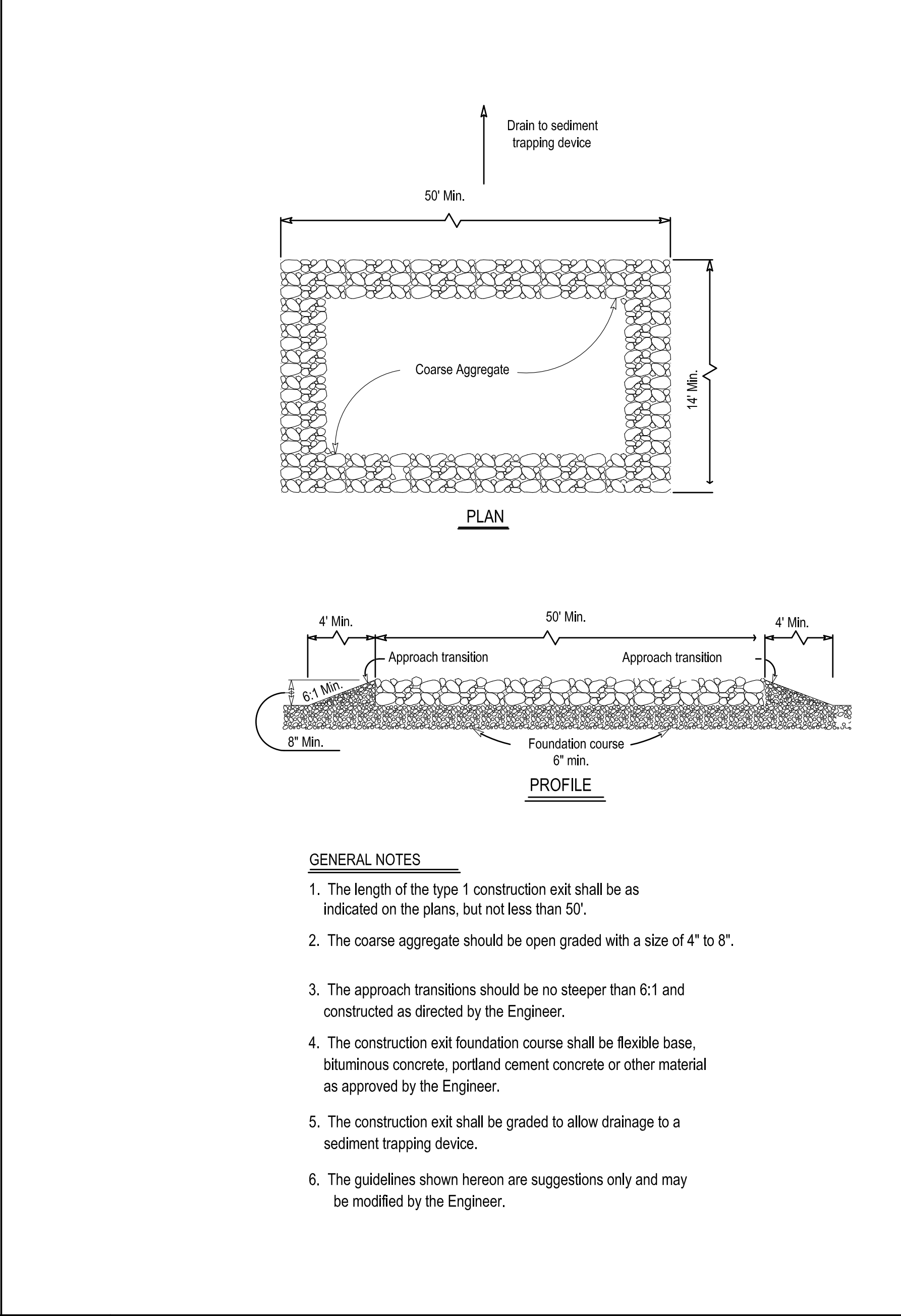
1.

TEMPORARY SEDIMENT CONTROL FENCE



2.

BALED HAY FOR EROSION CONTROL(INLRT PROTECTION)



3.

CONSTRUCTION EXIT (TYPE 1)

GENERAL NOTES :

- The guidelines shown hereon are suggestions only and may be modified by the engineer.

SEDIMENT CONTROL FENCE USAGE GUIDELINES

A sediment control fence may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A 2-year storm frequency may be used to calculate the flow rate to be filtered.

Sediment control fence should be sized to filter a max. flow through rate of 100 GPM/FT. Sediment control fence is not recommended to control erosion from a drainage area larger than two acres.

GENERAL NOTES :

- The guidelines shown hereon are suggestions only and may be modified by the engineer.
- Hay bales shall be a minimum of 30" in length and weigh a minimum of 50 lbs.
- Hay bales shall be bound by either wire or nylon or polypropylene string. The bales shall be composed entirely of vegetable matter.
- Hay bales shall be embedded in the soil a minimum of 4" and where possible 1/2 the height of the bale.
- Hay bales shall be placed in a row with ends tightly abutting the adjacent bales. The bales shall be placed with bindings parallel to the ground.
- Hay bales shall be securely anchored in place with 3/8" dia. rebar or 2"x2" wood stakes driven through the bales. The first stake shall be angled towards the previously laid bale to force the bales together.

BALED HAY USAGE GUIDELINES

A Baled Hay Installation may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A two year storm frequency may be used to calculate the flowrate to be filtered. The installation should be sized to filter a maximum flow thru rate of 5 GPM/FT of cross sectional area. Baled hay may be used at the following locations:

- Where the runoff approaching the baled hay flows over disturbed soil less than 100'. If the slope of the disturbed soil exceeds 10%, the length of slope upstream the baled hay should be less than 50'.
- Where the installation will be required for less than 3 months.
- Where the contributing drainage area is less than 1/2 acre.

For Baled Hay Installations in small ditches, the additional following considerations apply:

- The ditch sideslopes should be graded as flat as possible to maximize the drainage flowrate thru the hay.
- The ditch should be graded large enough to contain the overtopping drainage when sediment has filled to the top of the baled hay.

Bales should be replace usually every two months or more often during wet weather when loss of structural integrity is accelerated.

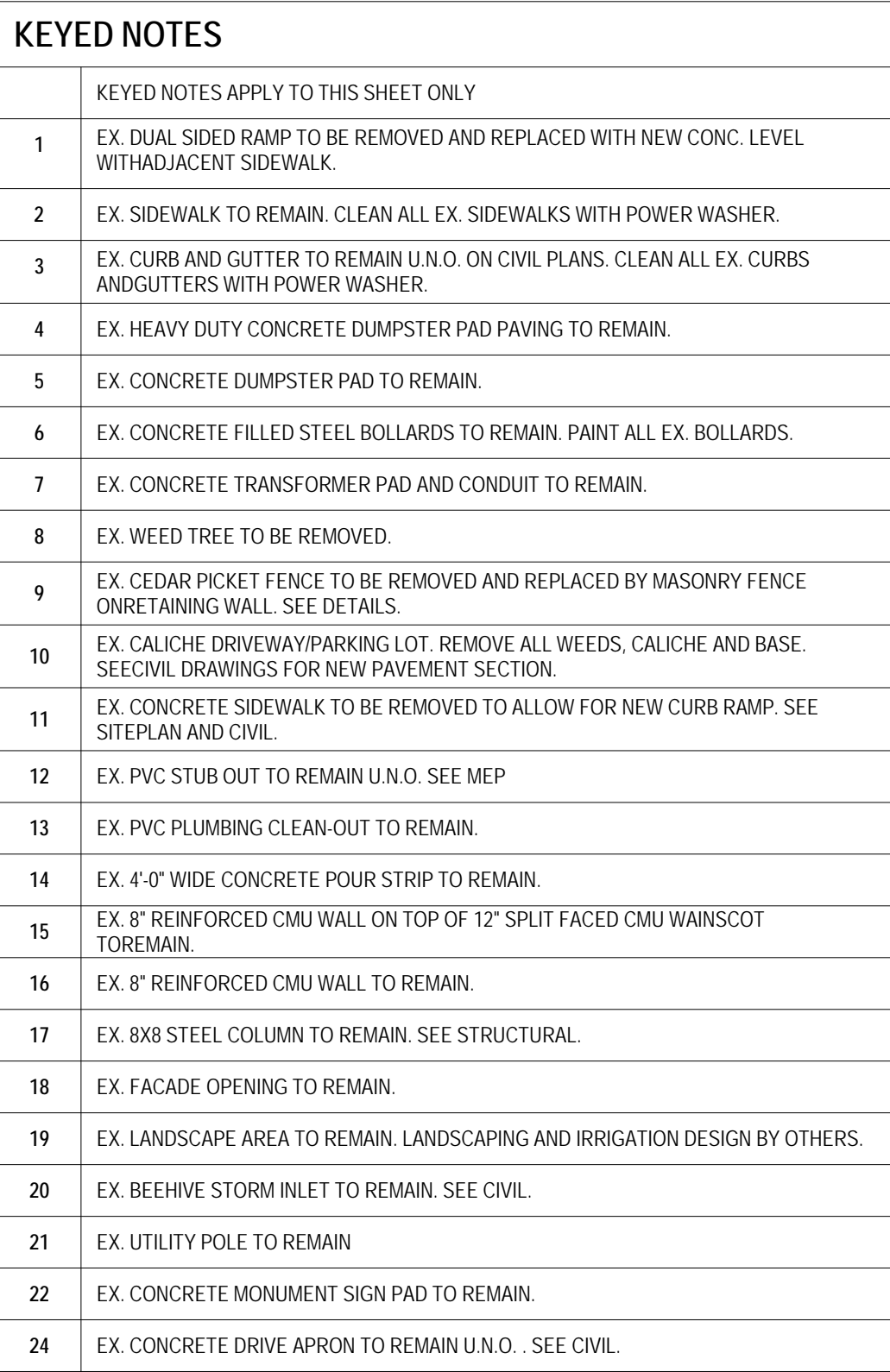
General Notes

| No. | Revision/Issue | Date |
|-----|----------------|------|
| | | |
| | | |

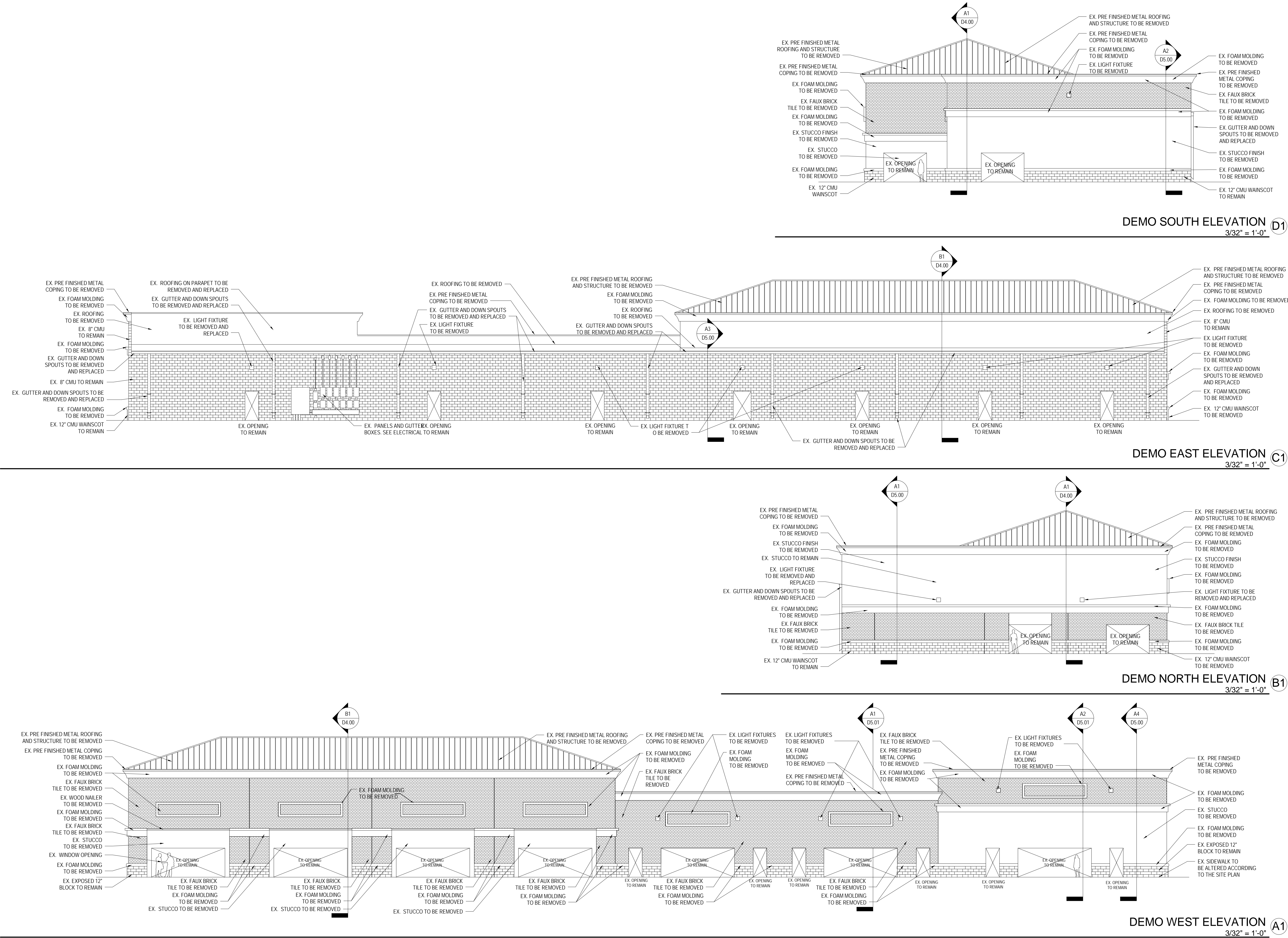
10-22-18
STATE OF TEXAS
C. HINOJOSA, JR.
90636
LICENSED PROFESSIONAL ENGINEER
C. H. J.
CLH
ENGINEERING, INC.
TBP# FIRM No. F-8719
701 S. 15TH STREET MCALLEN, TX. 78501
(956) 687-5560 (956) 687-5561 FAX


Project Name and Address or Nearest Intersection
UTRGV SOM
Owner:
Sheet Title
EROSION & SEDIMENT
CONTROL DETAILS
Date
OCTOBER 22, 2018
Scale
As Noted

Sheet
C7.0




| | |
|----|---|
| 25 | EX. DRAINAGE STRUCTURE TO REMAIN U.N.O. SEE CIVIL. |
| 26 | EX. ELECTRICAL EQUIPMENT TO REMAIN U.N.O. SEE ELECTRICAL. |
| 27 | EX. DRAINAGE SWALE TO BE REVISED AS PER CIVIL DRAWINGS. |
| 28 | EX. DIRT GROUND TO BE REVISED TO ACCEPT PROPOSED CONCRETE SLAB. SEE STRUCTURAL DETAILS. |
| 29 | SHADED AREA REPRESENTS EX. METAL STUD FRAMED ROOF AND STANDING SEAM METAL ROOF TO BE REMOVED AND REPLACED WITH FLAT ROOF. SEE ARCHITECTURAL AND STRUCTURAL DETAILS. |
| 30 | ALL EX. BUILDING FINISHES SHALL BE REMOVED ALL THE WAY DOWN TO THE EX. CMU SEE DEMOLITION ELEVATIONS FOR MORE INFORMATION. |
| 31 | EX. BANK OF ELECTRICAL METERS AND MAIN PANEL. SEE ELECTRICAL FOR MORE INFORMATION. |
| 32 | SHADED AREA REPRESENTS EX. 4'-0" WIDE POUR STRIP TO BE REMOVED TO ALLOW FOR NEW COLUMN FOOTING. SEE STRUCTURAL FOR MORE INFORMATION. |
| 33 | EXISTING OPENING TO BE FILLED WITH STUD FRAMING AND STUCCO |
| 34 | |
| | |






FACILITIES PLANNING
& CONSTRUCTION
956.665.2770



11-01-18

Boultinghouse
Simpson
Gates
ARCHITECTS



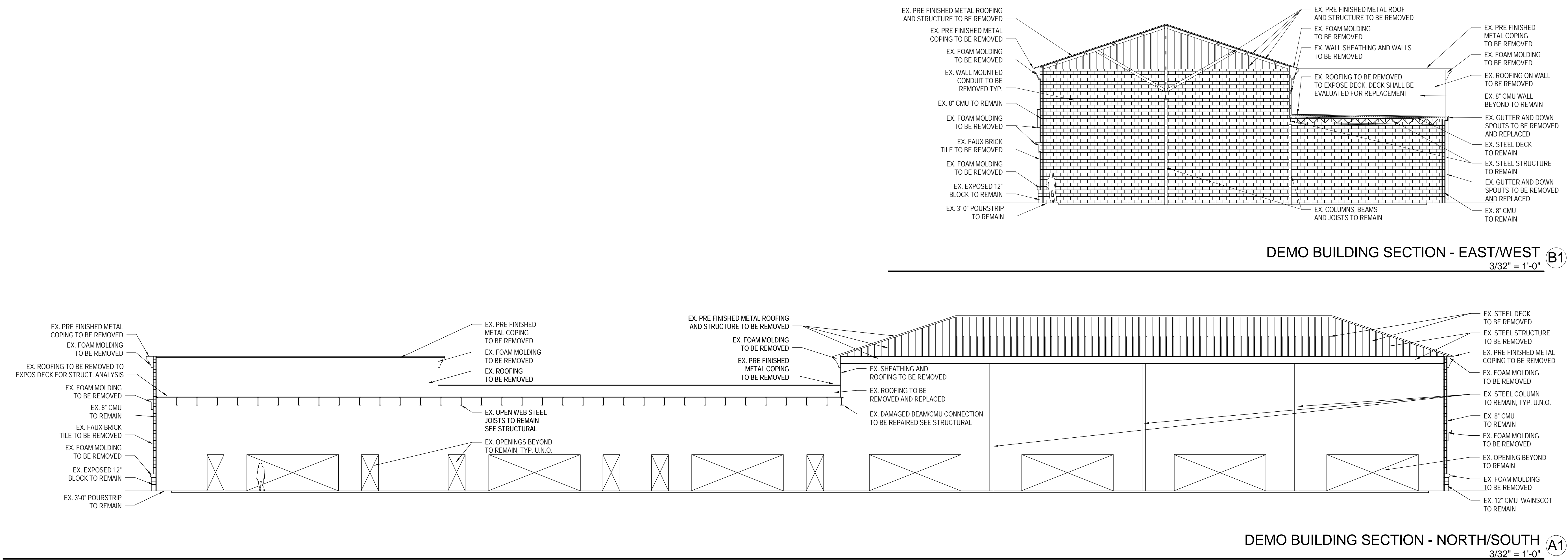
3301 N. McCOLL RD | McALLEN, TX 78501 | P: 956.630.9494 | F: 956.630.2058

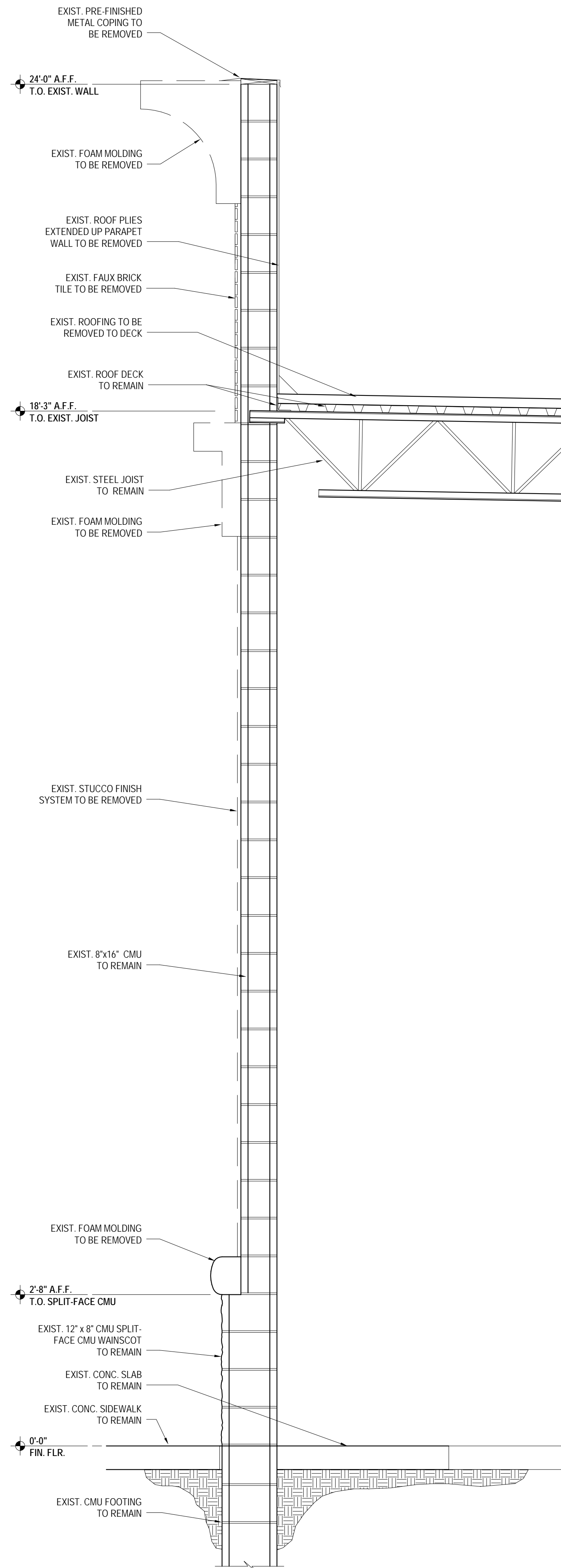
Project # 1802
UTRGV PROJECT # PED-18-33
UTRGV - SCHOOL OF MEDICINE - JACKSON RD.
3804 S. JACKSON RD. | EDINBURG, TX | 78539

Issue Date 31 OCTOBER 2018

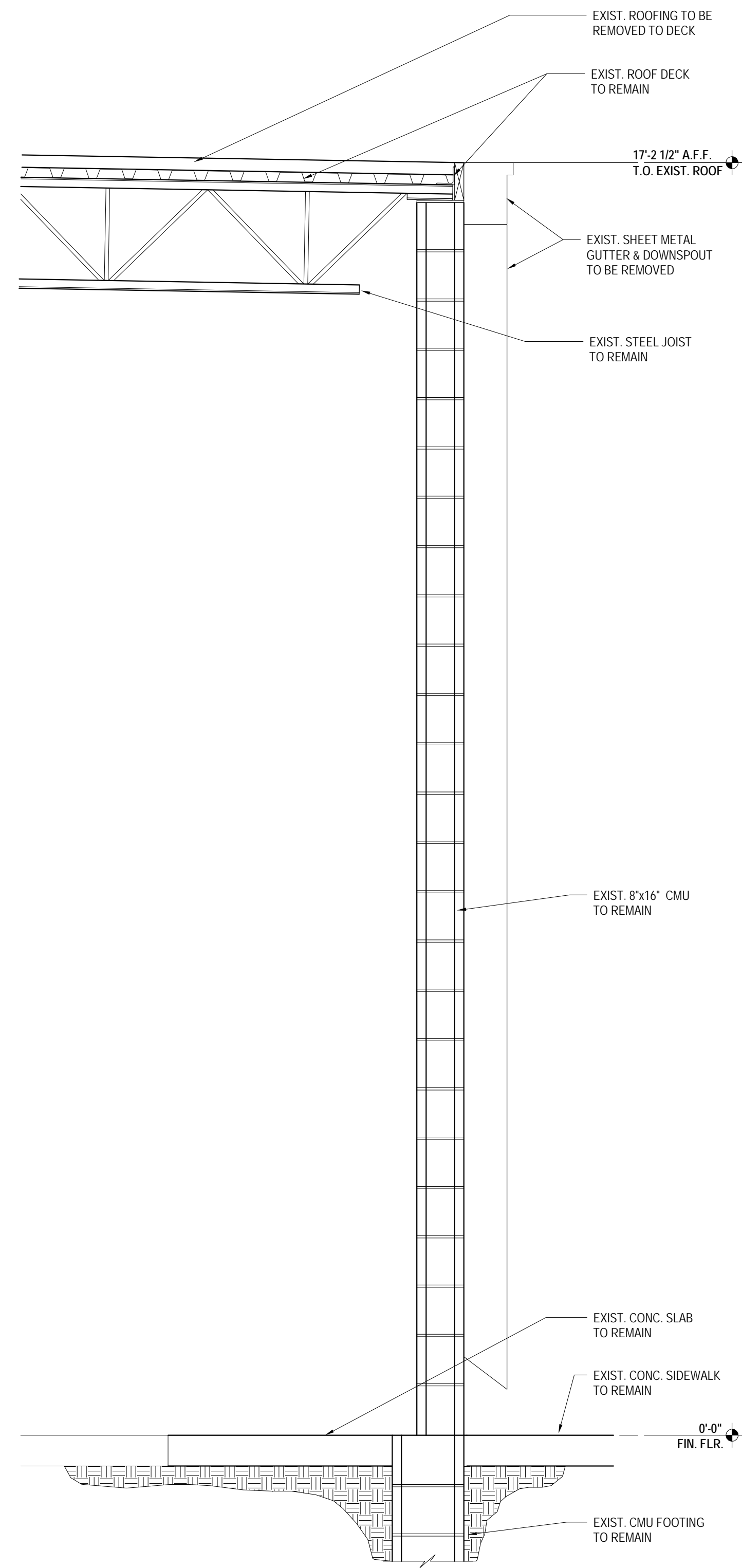
DEMO EXTERIOR ELEVATIONS

D3.00

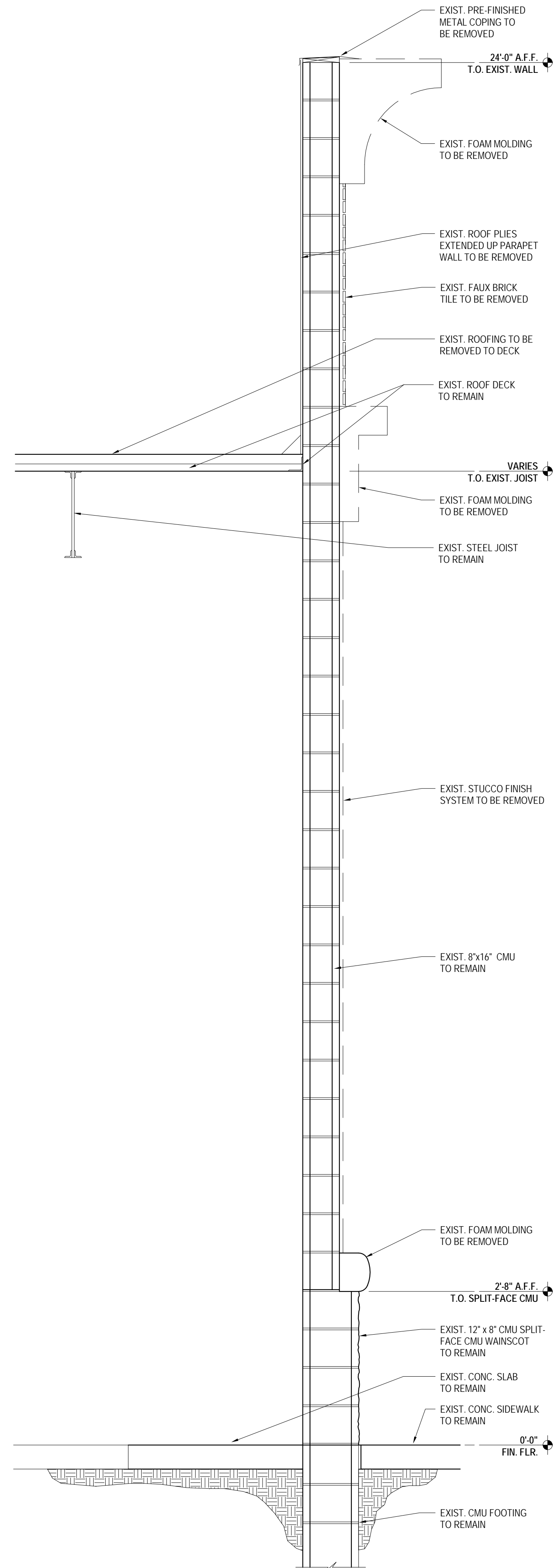




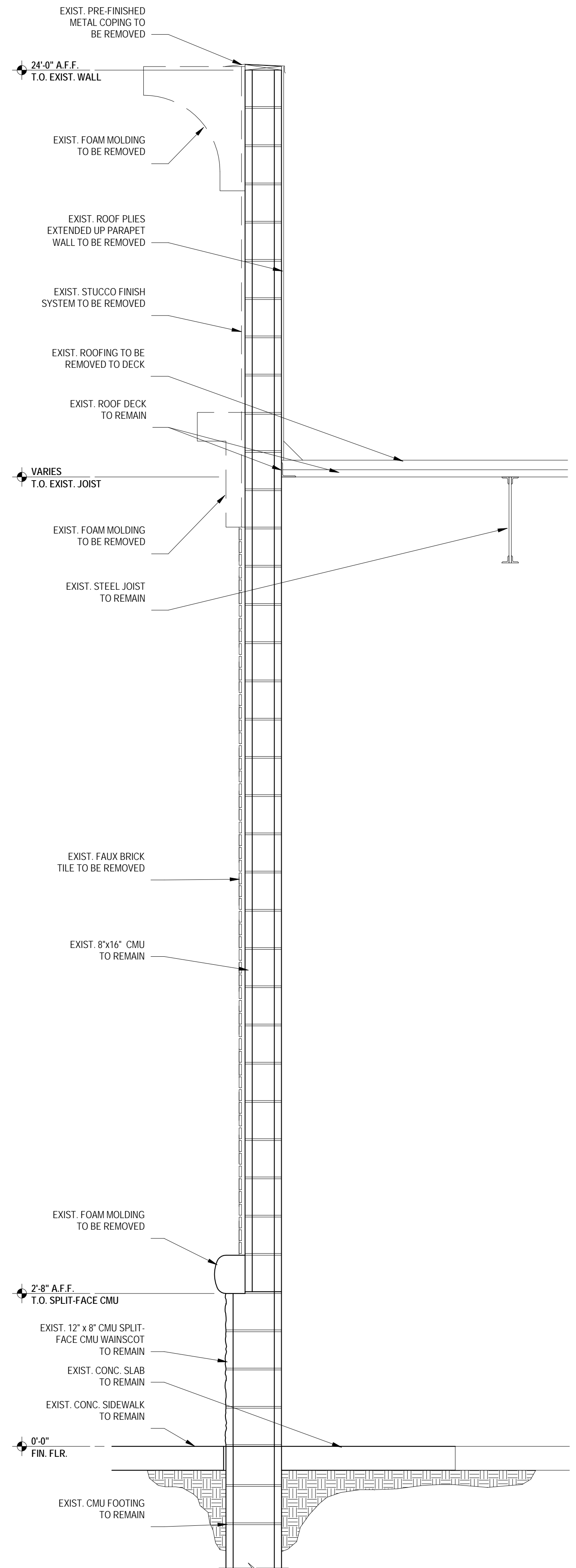
DEMO WEST WALL SECTION 1
3/4" = 1'-0" (A4)



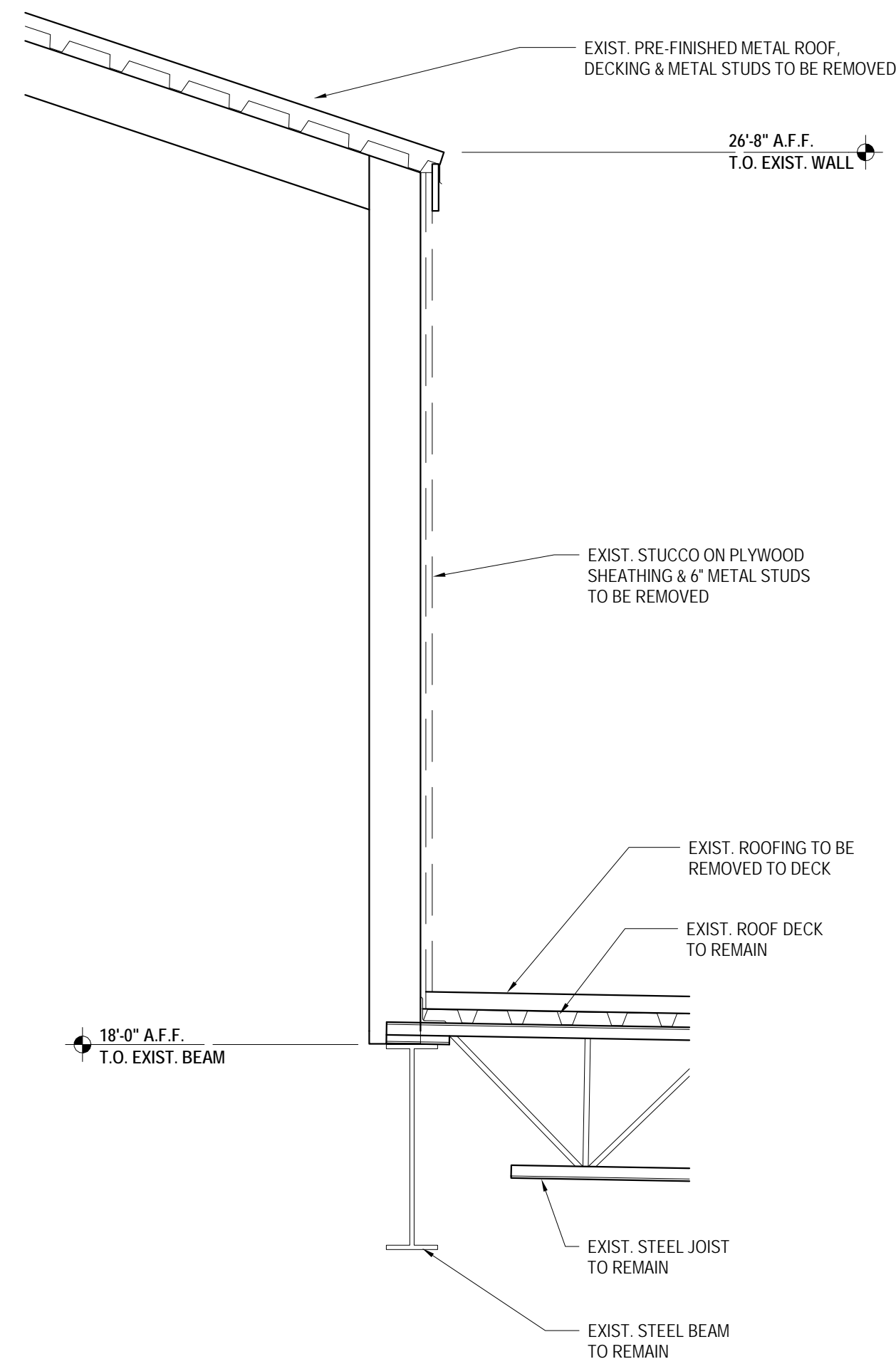
DEMO EAST WALL SECTION
3/4" = 1'-0" (A3)



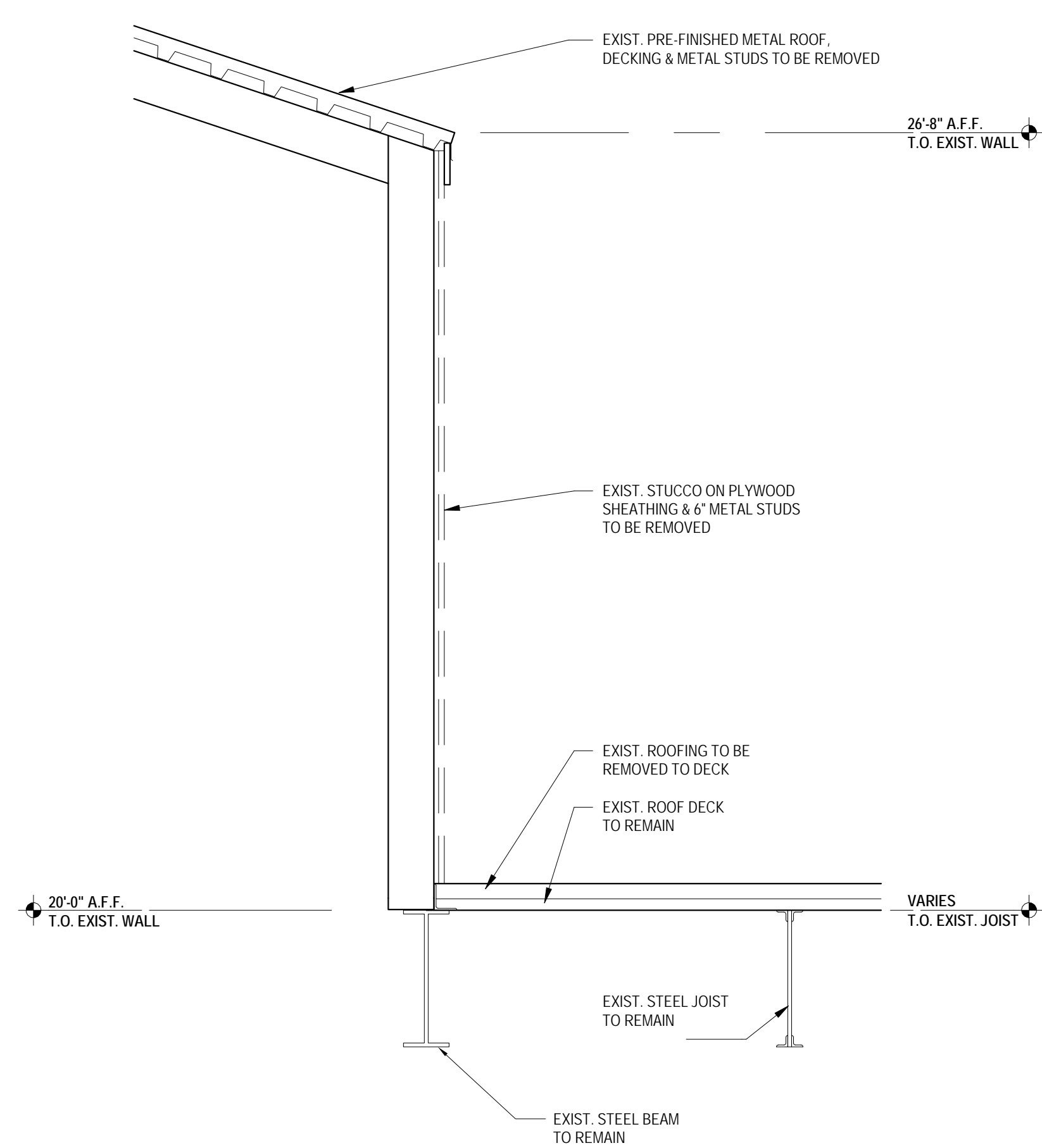
DEMO SOUTH WALL SECTION
3/4" = 1'-0" (A2)



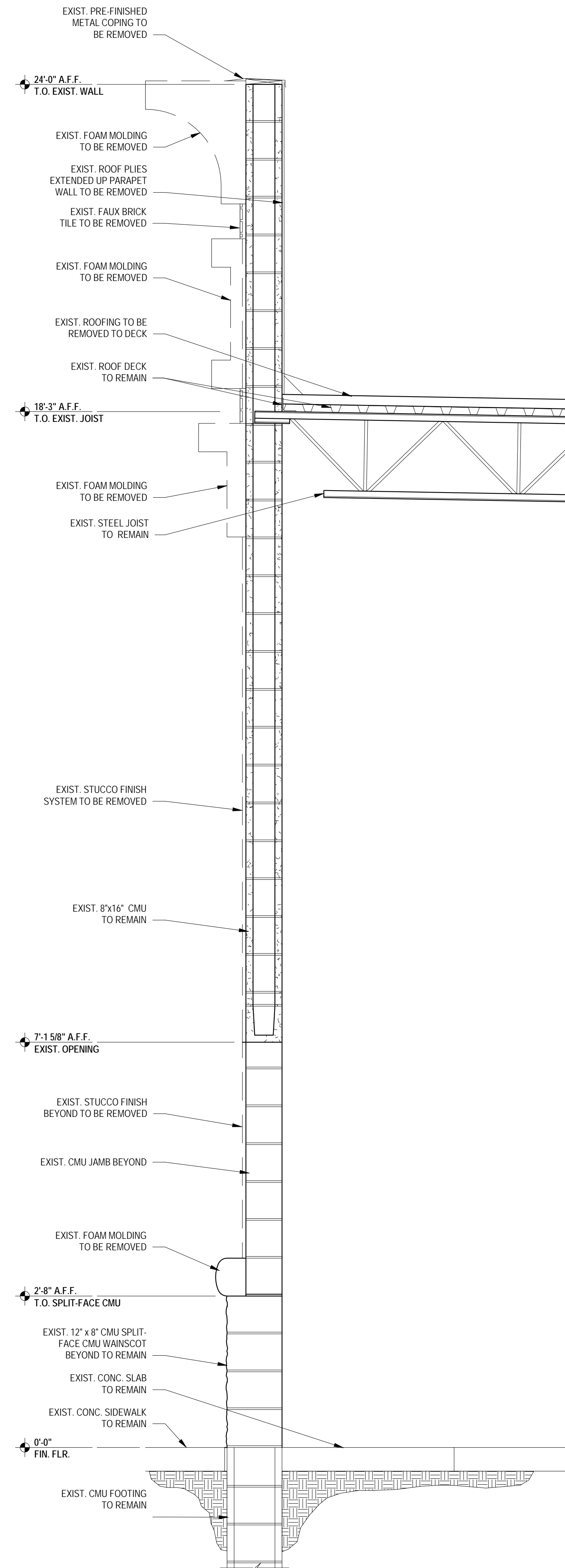
DEMO NORTH WALL SECTION
3/4" = 1'-0" (A1)



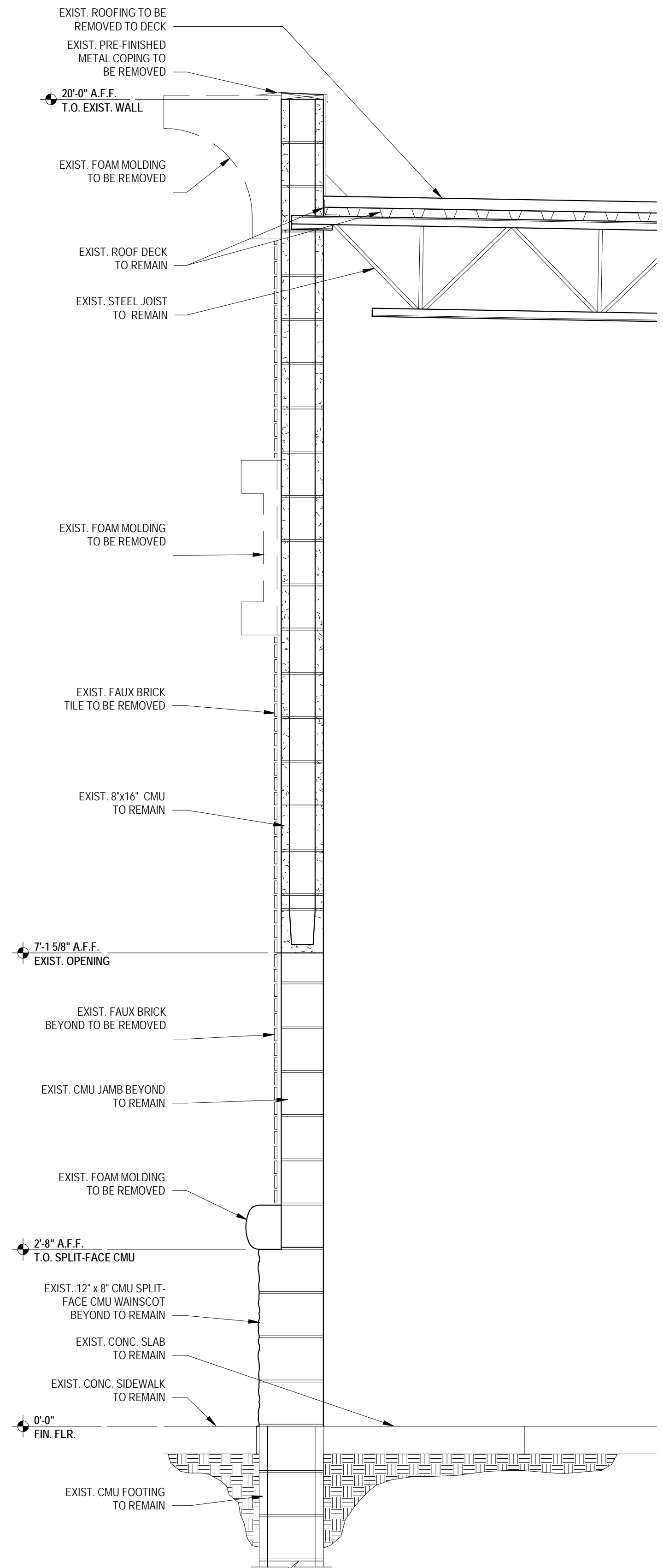
DEMO WALL SECTION - EAST HIGH WALL (A4)
3/4" = 1'-0"



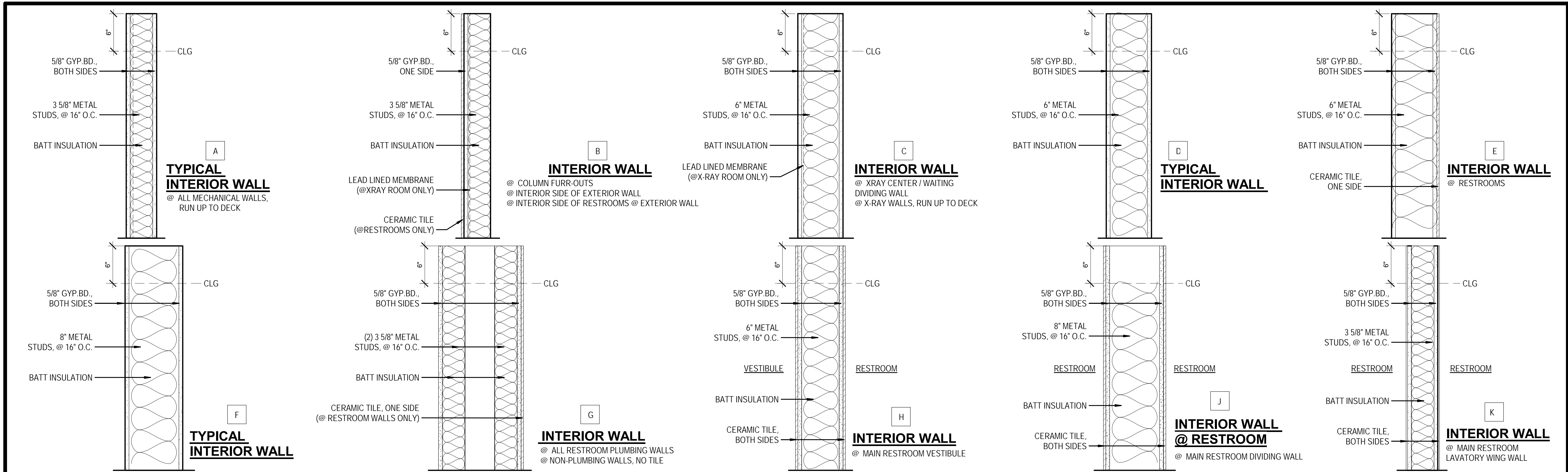
DEMO WALL SECTION - SOUTH HIGH WALL (A3)
3/4" = 1'-0"



DEMO WALL SECTION WEST 2 (A2)
3/4" = 1'-0"

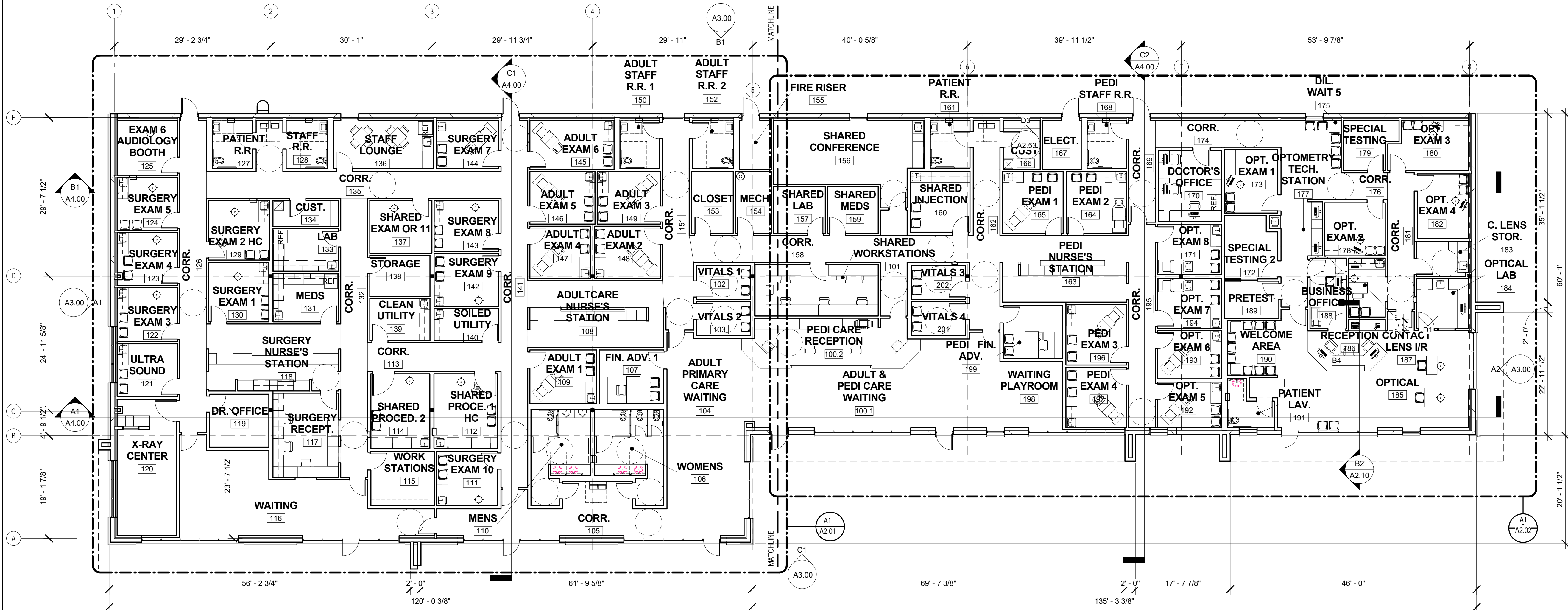


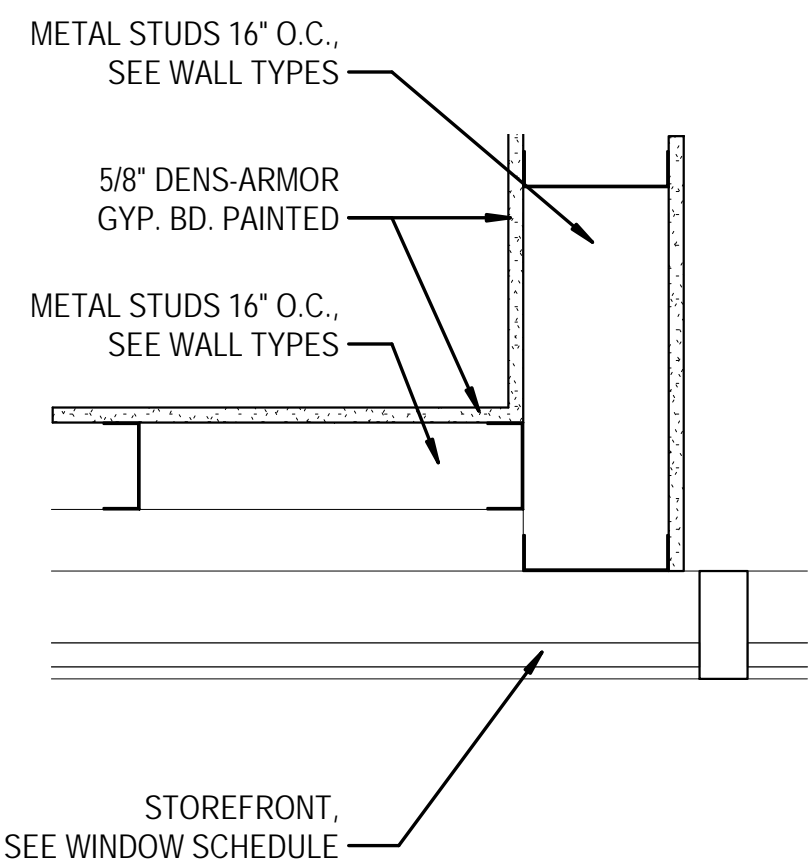
DEMO WALL SECTION WEST 1 (A1)
3/4" = 1'-0"



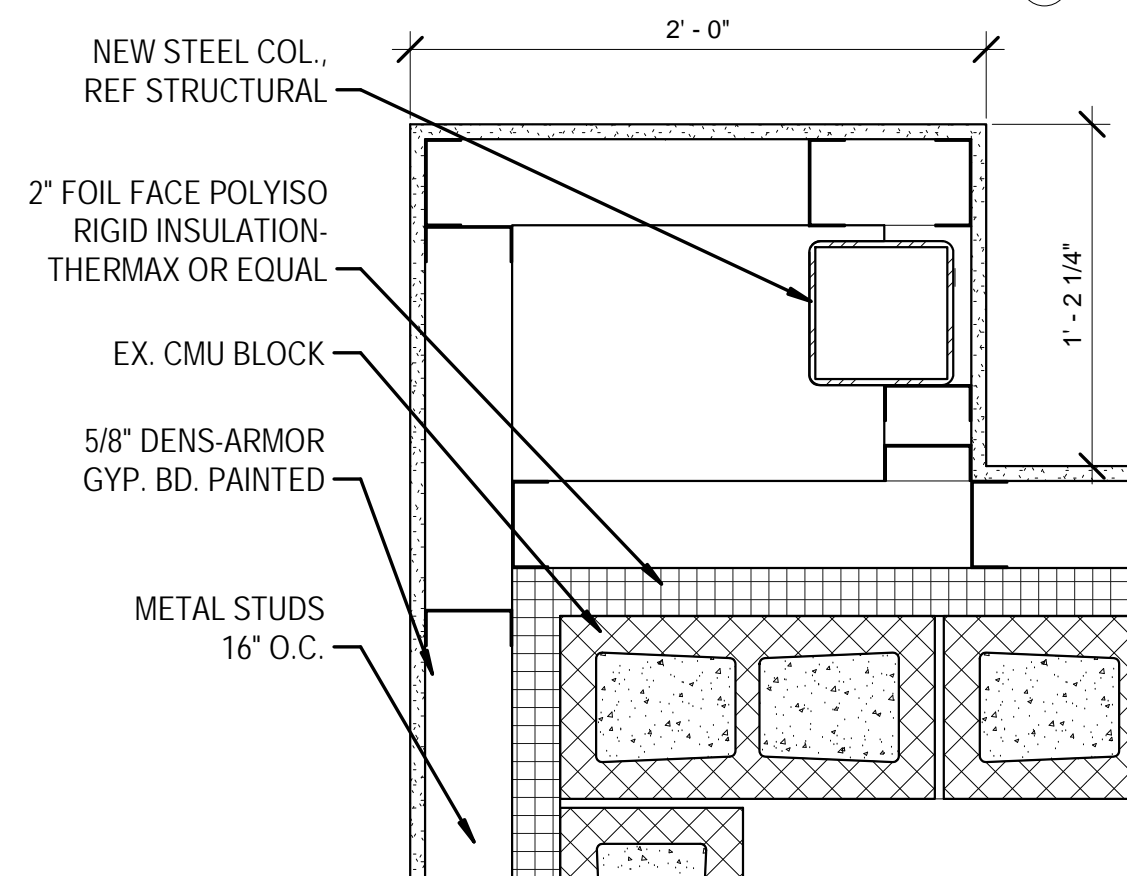
ROOMS: 109,111,112,114,120,121,123,124,125,129,130,137,142,143,144,145,146,147,148,149,164,165,171,172,173,178,179,180,182,192,193,194,196 & 197
PERIMETER STUDS OF ROOMS LISTED ABOVE SHALL BE EXTENDED TO DECK

WALL TYPE LEGEND
1 1/2" = 1'-0"

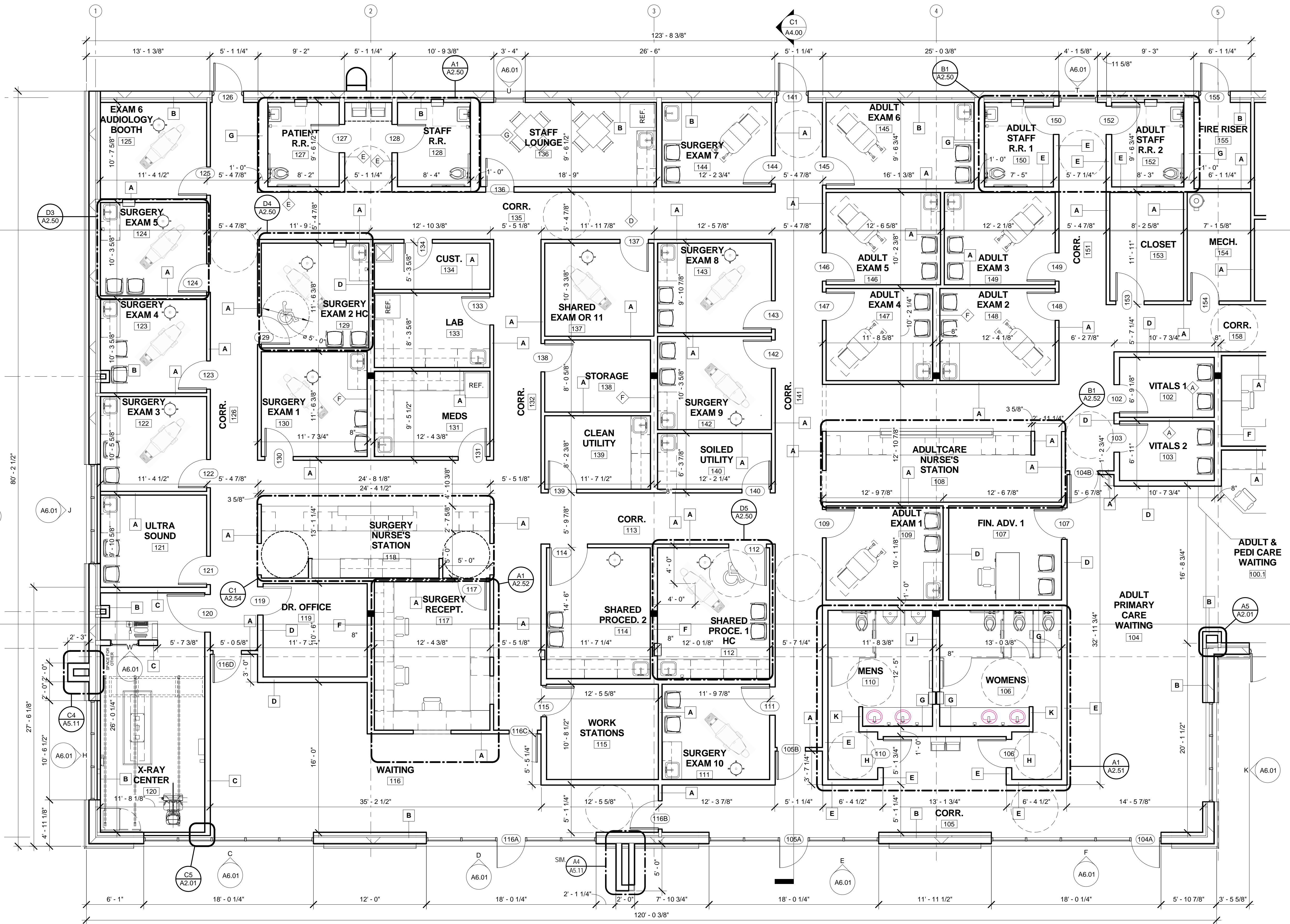




PLAN DETAIL @ X-RAY CENTER C5
1 1/2" = 1'-0"



COLUMN FURR-OUT DETAIL A5
1 1/2" = 1'-0"



KEY

ENLARGED PARTIAL PLAN - NORTH A1
3/16" = 1'-0"



| ANCILLARY | |
|---|---|
| CUSTOMER/CONTRACTOR SUPPLIED AND ITEM | |
| ITEM NO. | ITEM (* INDICATES) |
| <div><div></div></div> | |
| 60 | MINIMUM DOOR OPENING FOR EQUIPMENT DELIVERY IS 37.5 IN. W x 75 IN. H (950mm x 1900mm). CONTINGENT ON A 98.5 IN. (2500mm) CORRIDOR WIDTH. NOTE: IMAGE PASTE OPTION REQUIRES AN 82 IN. H (2100mm) HIGH OPENING FOR ACCESS. |
| 61 | X-RAY ON WARNING LIGHT - AVAILABLE FROM GFXPRO CALL: 800-200-9760 GE CAT. NO. WXIABWW-OF-XIU |
| 62 | DOOR LIMIT SWITCH (NEEDED ONLY IF REQUIRED BY STATE/LOCAL CODES) |
| THE FOLLOWING ITEMS ARE AVAILABLE FROM THE GE SYSTEMS SERVICE DEPARTMENT. CONTACT YOUR LOCAL MEDICAL SYSTEMS SERVICE REPRESENTATIVE FOR PRICING AVAILABILITY OR CALL 1-800-558- | |
| 90 | X-RAY ROOM WARNING LIGHT CONTROL PANEL REFERENCE JUNCTION POINT 'XRI' ON SHEET 'F1' FOR DETAILED DESCRIPTION - E4502RL FOR WARNING LIGHT CONTROL ONLY. |
| 91 | EMERGENCY OFF SWITCH (NEEDED ONLY IF REQUIRED BY STATE/LOCAL CODES) |
| 92 | MAIN DISCONNECT. REFERENCE JUNCTION POINT 'A' ON SHEET E1. (16" W x 24" H x 6" D) |
| THE CUSTOMER MUST PROVIDE ONE INTERNET ACCESSIBLE NETWORK CONNECTION UNLESS BASED UPON SYSTEM THAT A DEDICATED DATA TELEPHONE LINE IS | |

GE EQUIPMENT LISTING 2
3/8" = 1'-0" A4

POWER

JEDI 80kw SYSTEMS CABINET

REV. DATE: 20.Mar.15

VOLTAGE

PRIMARY SOURCE IS REQUIRED FOR ALL INSTALLATIONS.
RANGE OF LINE VOLTAGES:
NOMINAL LINE VOLTAGE OF 380 TO 480, 3 PHASE, WITHOUT NEUTRAL,
50 OR 60Hz.

REQUIRED POWER SUPPLY: WYE DISTRIBUTION

MAXIMUM DAILY VOLTAGE VARIATION MUST FALL WITHIN ONE OF
THE RANGES IN TABLE A.

TABLE A
ALLOWABLE
INPUT
VOLTAGES/
CURRENT
DEMAND

| NOMINAL VOLTAGE | NORMAL RANGE ±10 PERCENT | CURRENT (AMPS) | | MINIMUM OVERCURRENT PROTECTION |
|--------------------|-----------------------------|-------------------|------------|--------------------------------------|
| | | MAX. MOMENTARY | CONTINUOUS | |
| 380 | 342-418 | 190 | 7 | 95-A |
| 400 | 360-440 | 180 | 6.7 | 90-A |
| 415 | 373-456 | 170 | 6.2 | 85-A |
| 440 | 396-484 | 163 | 6 | 82-A |
| 460 | 414-506 | 156 | 5.7 | 78-A |
| 480 | 432-528 | 150 | 5.5 | 75-A |

NOTE

ALL CALCULATIONS BASED UPON NOMINAL VOLTAGE

LOW LINE CONDITIONS MAY INHIBIT SOME HIGH kVp TECHNIQUES.
THE GENERATOR AUTOMATICALLY ESTABLISHES THESE INHIBITS
BASED ON ACTUAL LINE CONDITIONS AND SYSTEM REGULATION.

PHASE-TO-PHASE VOLTAGES MUST BE WITHIN +2 PERCENT
OF THE LOWEST PHASE-TO-PHASE VOLTAGE. MAXIMUM ALLOWABLE
TRANSIENT VOLTAGE EXCURSIONS ARE 2.5 PERCENT OF RATED
LINE VOLTAGE AT A MAXIMUM DURATION OF 5 CYCLES AND
FREQUENCY OF 10 TIMES PER HOUR.

CONTINUOUS POWER DEMAND =4.6 KVA. (MAX DEMAND = 125 KVA)

PHASE-
BALANCE

PHASE-TO-PHASE VOLTAGES MUST BE WITHIN +2 PERCENT
OF THE LOWEST PHASE-TO-PHASE VOLTAGE. MAXIMUM ALLOWABLE
TRANSIENT VOLTAGE EXCURSIONS ARE 2.5 PERCENT OF RATED
LINE VOLTAGE AT A MAXIMUM DURATION OF 5 CYCLES AND
FREQUENCY OF 10 TIMES PER HOUR.

POWER
DEMAND

CONTINUOUS POWER DEMAND =4.6 KVA. (MAX DEMAND = 125 KVA)

TABLE B
MAXIMUM
MOMENTARY
POWER
DEMAND.

| DEMAND | VALUE |
|--------------------|-------|
| kVa * | 125 |
| POWER FACTOR AT | 0.73 |
| mA | 630 |
| kVp | 80 |

* DEMAND INCLUDES POWER FOR ENTIRE SYSTEM.
LINE VOLTAGE REGULATION AT MAXIMUM POWER DEMAND
MUST BE LESS THAN OR EQUAL TO 6 PERCENT.













DISTRIBUTION
TRANSFORMER

FOR A SINGLE UNIT INSTALLATION, THE MINIMUM TRANSFORMER SIZE
IS 150 KVA. SYNTHESIZED POWER FEED IS NOT ACCEPTABLE

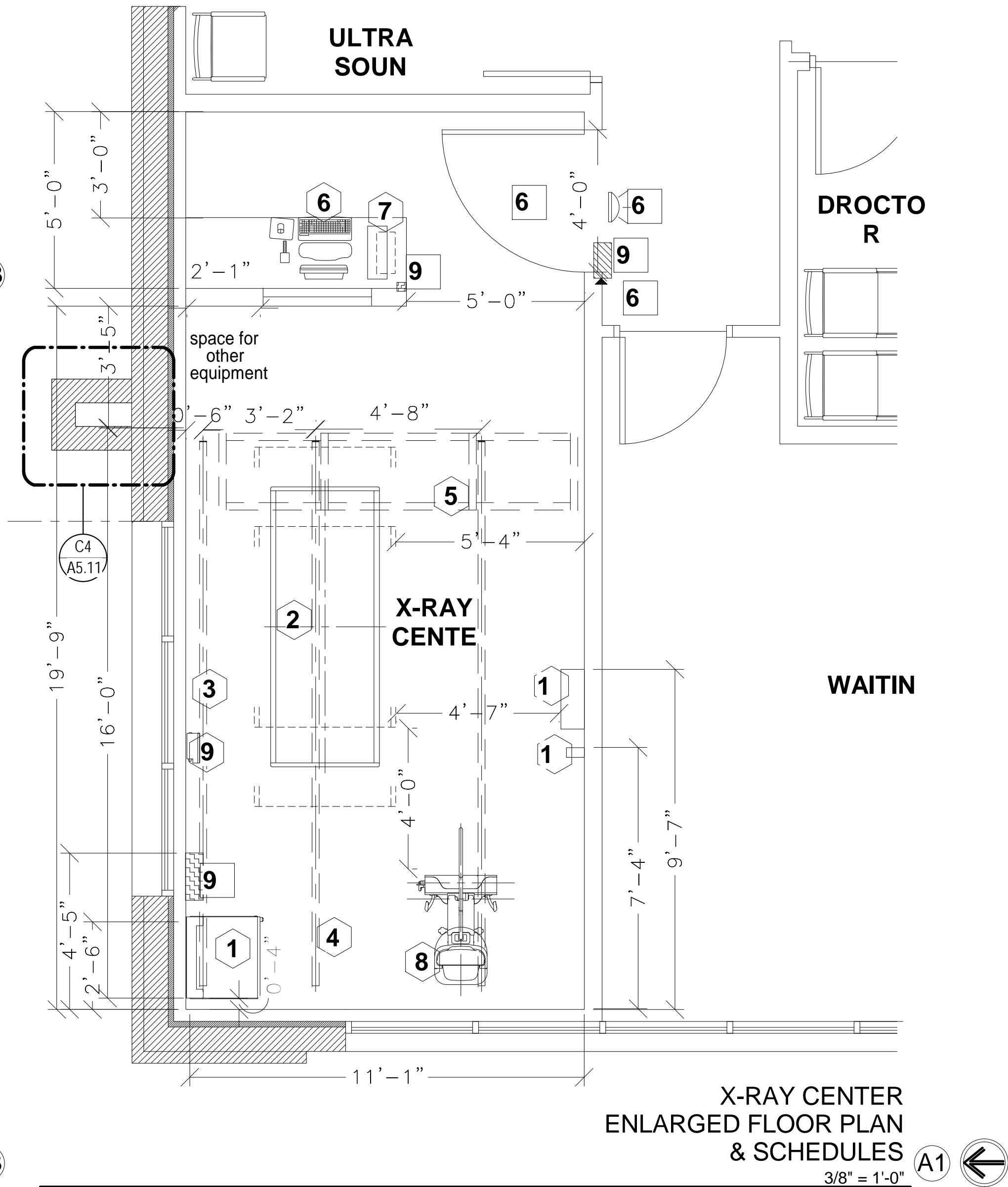
STANDARD
DISCONNECTS

E4502ST 80 AMP DISCONNECT
E4502RS 110 AMP DISCONNECT
E4502RT 150 AMP DISCONNECT
E4502RP 90 AMP DISCONNECT WITH AUTO-RESTART
E4502SA 110 AMP DISCONNECT WITH AUTO-RESTART
E4502RY 125 AMP DISCONNECT WITH AUTO-RESTART

POWER SPECIFICATIONS
3/8" = 1'-0" C3

| GE EQUIPMENT | | | | |
|---|---|--|------------------|------|
| EQUIPMENT QUOTED FROM GE MEDICAL PER QUOTE NO. INSTALLED BY | | | | |
| ITEM NO. | QUANTITY | | | |
|  |  | ITEM (* = | WEIGH | HEAT |
|  | 1 | SYSTEM CABINET | 705 lbs 2440 btu | |
|  | 1 | XR656 G2/646 DIGITAL ELEVATING TABLE | 970 lbs 372 btu | |
|  | 1 | CABLE DRAPE RAIL. | 182 lbs | |
|  | 1 | XT RADIOGRAPHIC SUSPENSION WITH INBOARD MOUNTING. | 764 lbs 105 btu | |
|  | 2 | LONGITUDINAL STATIONARY RAIL FOR XT SUSPENSION | 68 lbs | |
|  | 1 | OPERATORS CONSOLE | 61 lbs 604 btu | |
|  | 1 | PARTIAL SYSTEM UNINTERRUPTIBLE POWER SUPPLY | 77 lbs 30 btu | |
|  | 1 | DIGITAL CHEST UNIT | 595 lbs 136 btu | |
|  | 1 | TETHER INTERFACE BOX | 15 lbs 10 btu | |
|  | 1 | DONGLE | 4 lbs | |
|  | 1 | GRID HOI DFR (FIFI D VFRIFY IDEAL LOCATION) | 30 lbs | |

GE EQUIPMENT LISTING 1
3/8" = 1'-0" A3



X-RAY CENTER
ENLARGED FLOOR PLAN
& SCHEDULES
3/8" = 1'-0" A1



The floor plan illustrates a medical suite layout with the following key areas and rooms:

- Examination Rooms:**
 - EXAM 6 AUDIOLOGY BOOTH (125)
 - SURGERY EXAM 5 (124)
 - SURGERY EXAM 4 (123)
 - SURGERY EXAM 3 (122)
 - ULTRA SOUND (121)
 - X-RAY CENTER (120)
 - PATIENT R.R. (127)
 - STAFF R.R. (128)
 - STAFF LOUNGE (136)
 - SURGERY EXAM 7 (144)
 - ADULT EXAM 6 (145)
 - ADULT STAFF R.R. 1 (150)
 - ADULT STAFF R.R. 2 (152)
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 - SHARED CONFERENCE (156)
 - PATIENT R.R. (161)
 - CUST. ELECT. (166)
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 - SPECIAL TESTING (179)
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 - OPT. EXAM 4 (182)
 - C. LENS STOR. (183)
 - OPTICAL LAB (184)
 - OPT. EXAM 5 (192)
 - PATIENT LAV. (191)
 - WELCOME AREA (190)
 - OPTICAL (185)
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 - SHARED UAB (153)
 - MECH. (154)
 - CLOSET (153)
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 - ADULT EXAM 3 (149)
 - ADULT EXAM 4 (137)
 - ADULT EXAM 2 (148)
 - ADULT CARE NURSE'S STATION (108)
 - ADULT FIN. ADV. 1 EXAM 1 (109)
 - MENS (110)
 - WOMENS (106)
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 - PEDI EXAM 2 (164)
 - PEDI NURSE'S STATION (163)
 - PEDI FIN. ADV. (199)
 - PEDI EXAM 3 (196)
 - DOCTOR'S OFFICE (170)
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 - OPT. EXAM 2 (178)
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 - CAN LIGHTS & COVE LIGHTS
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 - SIM. (Simulation)
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 - Waiting (116)
 - Work Stations (115)
 - Shared Proc'd 1 HC (112)
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 - Surgey Nurse's Station (118)
 - DR. OFFICE (119)
 - Recept. (117)
 - Surgey (118)
 - Surgey (119)
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 - Surgey (198)
 - Surgey (199)
 - Surgey (200)

OVERALL REFLECTED CEILING PLAN $\frac{3}{32}'' = 1'-0''$ (A1)

FINISH FLOOR LEGEND

20"x20" LVT

- PATCRAFT TYPOLOGY

a. TYPEFACE LVT COLOR 00630/PUNCTUATE - 1/3 TOTAL SF

b. CHARTED LVT COLOR 00630/PUNCTUATE - 1/3 TOTAL SF

c. LETTERPRESS LVT COLOR 00630/PUNCTUATE - 1/3 TOTAL SF

12"x24" PORCELAIN TILE

- DAL TILE

b. FLOOR

AXIOM SILVER FM94 - UNPOLISHED

c. GROUT

MAPEI 107 IRON

SEALED CONCRETE

24"x24" CARPET TILE

- PATCRAFT MID CENTURY POP

- ASHLAR PATTERN

a. 10381 - COLOR POP

b. 00650 RETRO POP

SHEET VINYL

- PATCRAFT ORGANIC HUE SMOKE 00710

WITH WELDED SEAMS - WEL2020

- WRAP UP WALLS 4" FOR BASE

C.G.

5'-0" TALL STAINLESS STEEL CORNER GUARDS SET ON TOP OF BASE

ENLARGED FLOOR FINISH PLAN- NORTH
3/16" = 1'-0" A1

UTHealth

Rio Grande Valley

FACILITIES PLANNING
& CONSTRUCTION

95.6 - 66.5 - 277.0

BOUTLINGHOUSE
SIMPSON
GATES

ARCHITECTS

3301 N. MCCOLL RD. | MCALLEN, TX 78501 | P: 956.630.9494 | F: 956.630.2058

Project # 1802

UTRGV PROJECT # PED-18-33

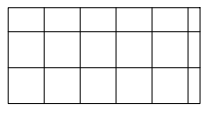
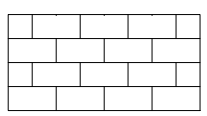
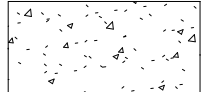
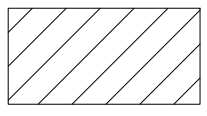
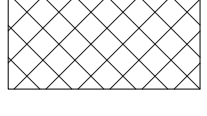

UTRGV - SCHOOL OF MEDICINE - JACKSON RD.

3804 S. JACKSON RD. | EDINBURG, TX | 78539

Issue Date 31 OCTOBER 2018

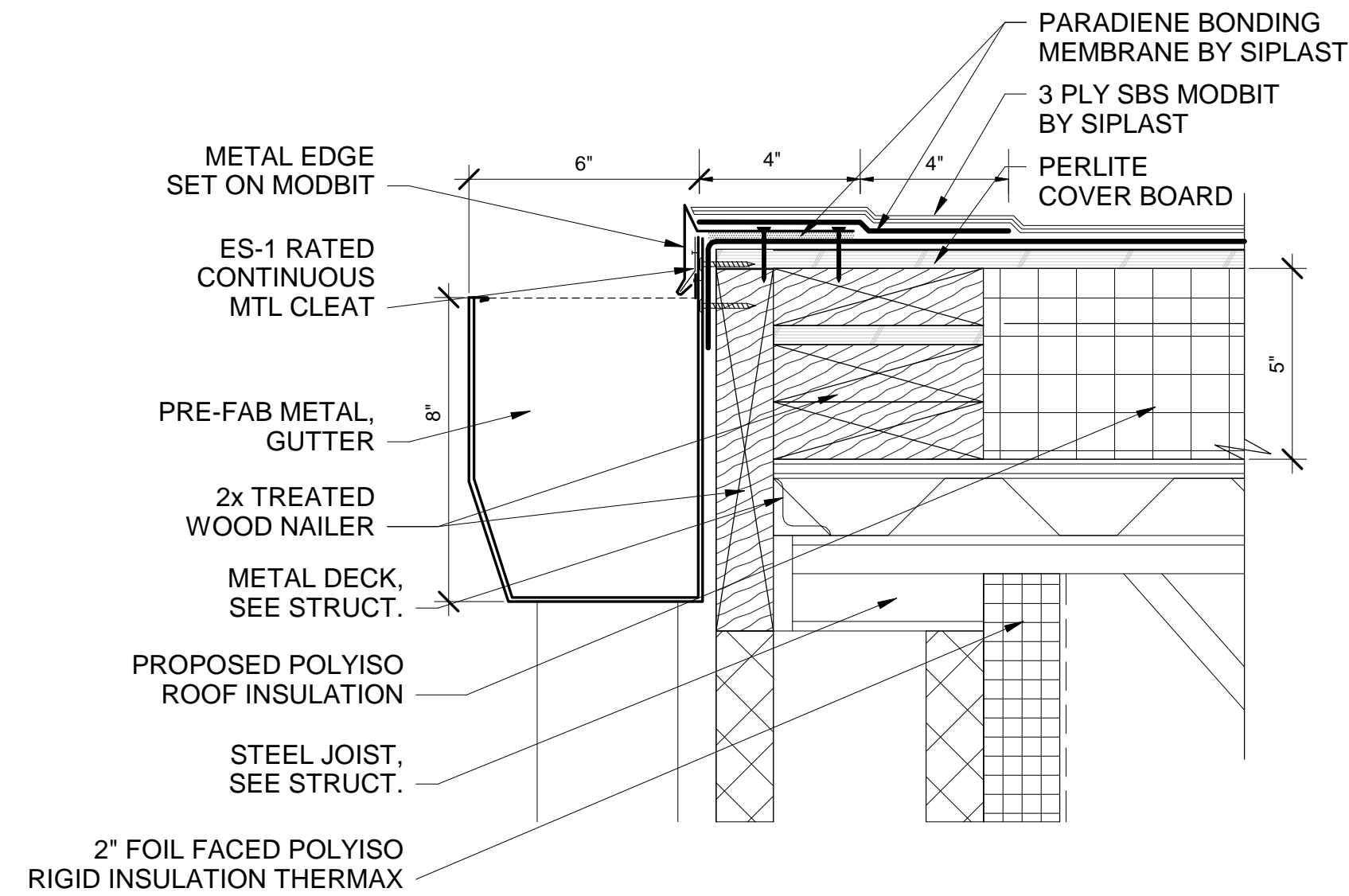
FINISH FLOOR PLAN - NORTH

A2.20

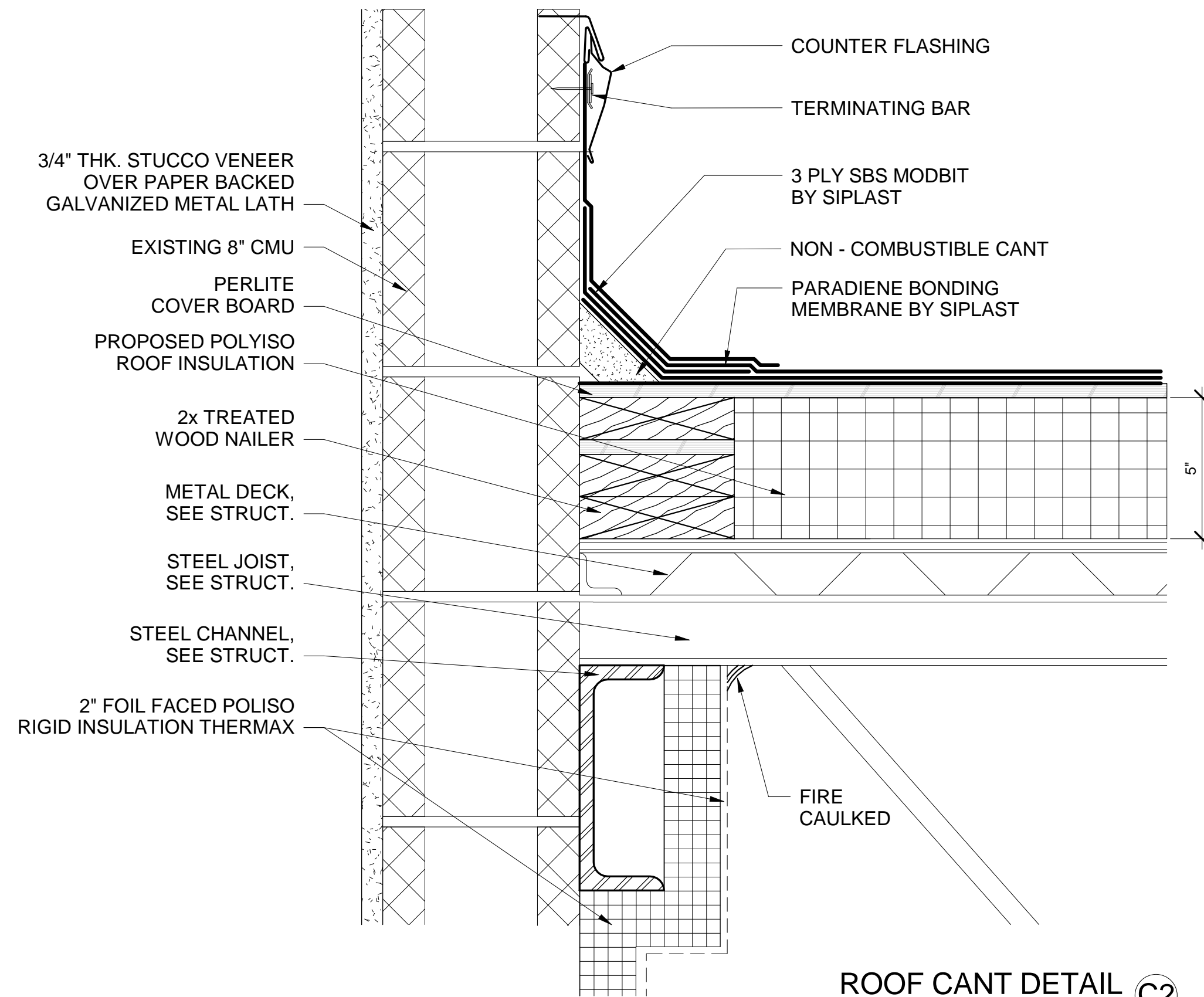
| FINISH FLOOR LEGEND | |
|---|--|
|  | 20'x20' LVT - PATCRAFT TYPOLOGY a. TYPEFACE LVT COLOR 00630/PUNCTUATE - 1/3 TOTAL SF b. CHARTED LVT COLOR 00630/PUNCTUATE - 1/3 TOTAL SF c. LETTERPRESS LVT COLOR 00630/PUNCTUATE - 1/3 TOTAL SF |
|  | 12'x24' PORCELAIN TILE - DAL TILE b. FLOOR AXIOM SILVER FM94 - UNPOLISHED c. GROUT MAPEI 107 IRON |
|  | SEALED CONCRETE |
|  | 24'x24' CARPET TILE - PATCRAFT MID CENTURY POP - ASHLAR PATTERN a. 00391 COLOR POP b. 00650 RETRO POP |
|  | SHEET VINYL - PATCRAFT ORGANIC HUE SMOKE 00710 WITH WELDED SEAMS - WEL2020 - WRAP UP WALLS 4" FOR BASE |
|  | 5'-0" TALL STAINLESS STEEL CORNER GUARDS SET ON TOP OF BASE |



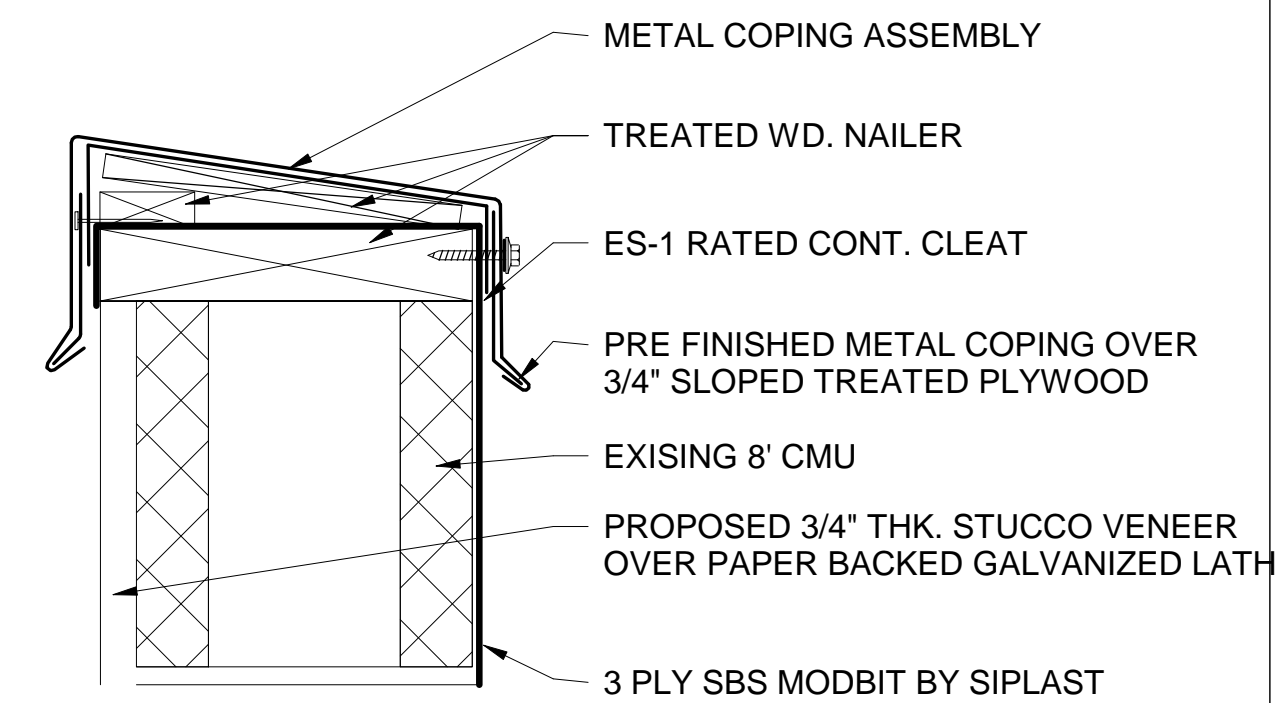
ENLARGED FLOOR FINISH PLAN - SOUTH
3/16" = 1'-0" A1



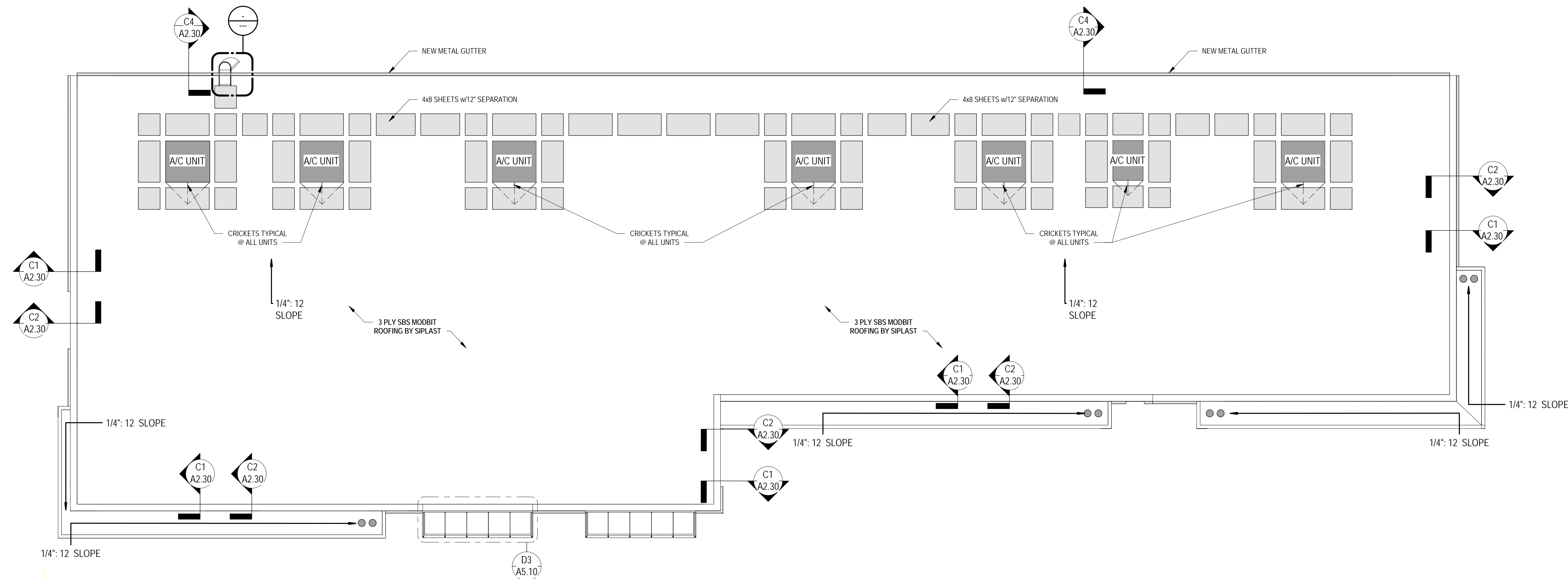
ROOF GUTTER DETAIL C4
3" = 1'-0"



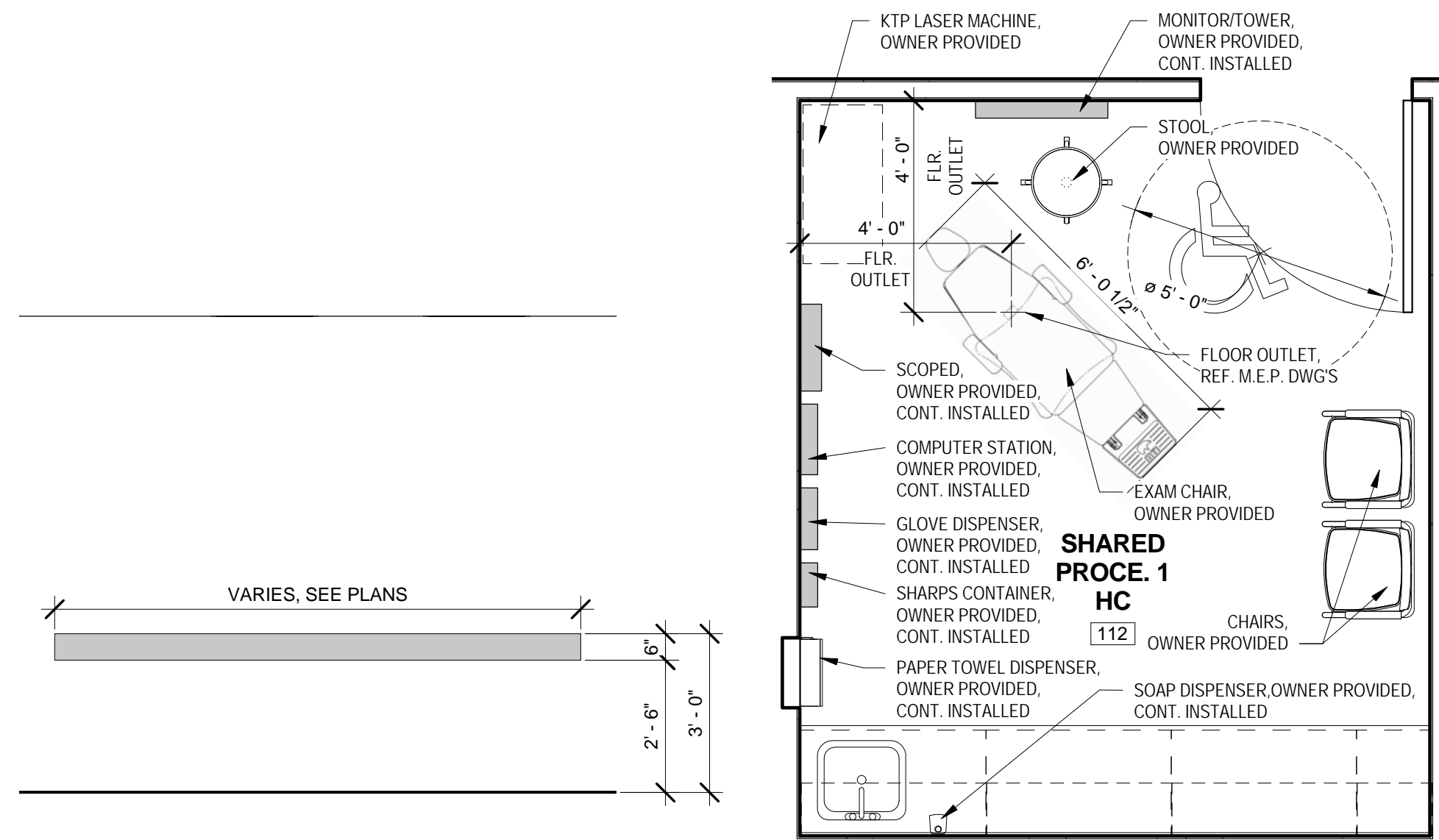
ROOF CANT DETAIL C2
3" = 1'-0"



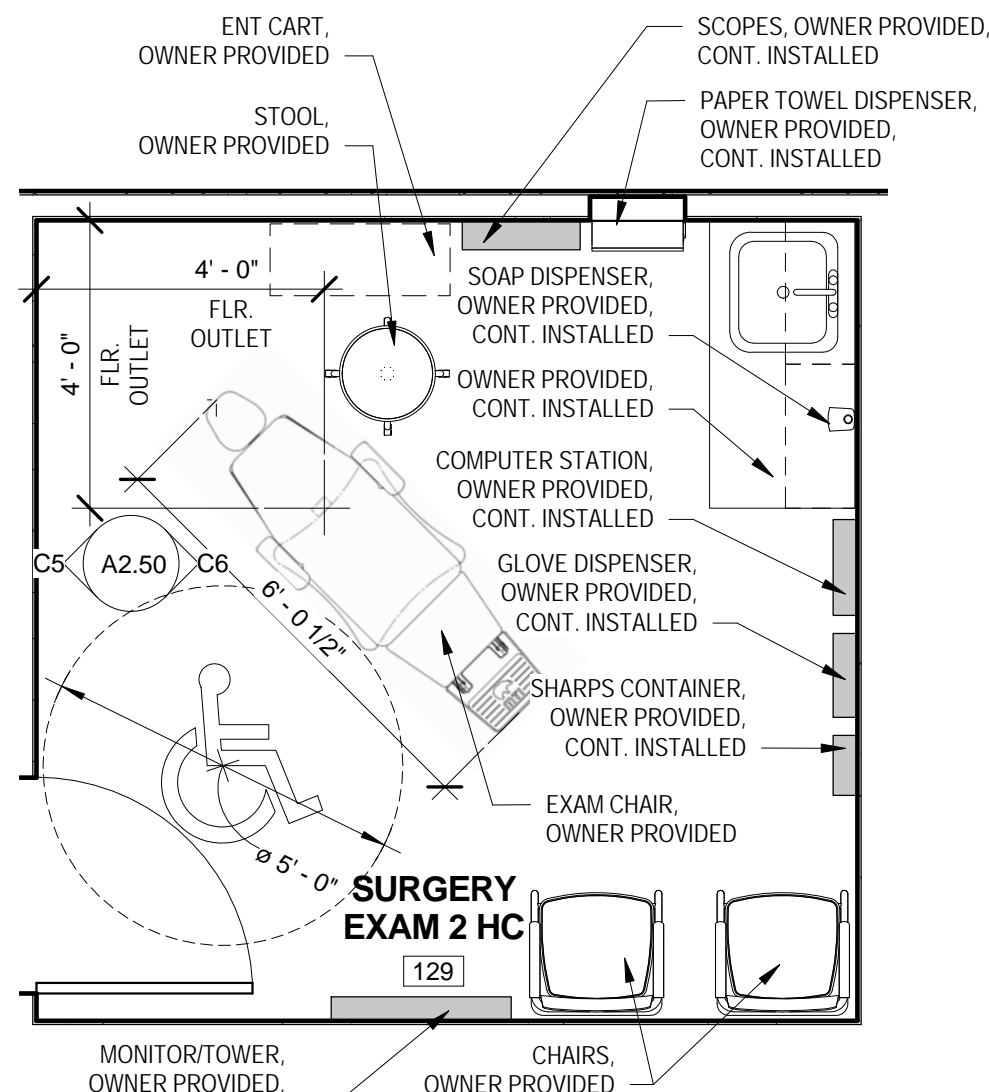
PARAPET COPING DETAIL C1
3" = 1'-0"



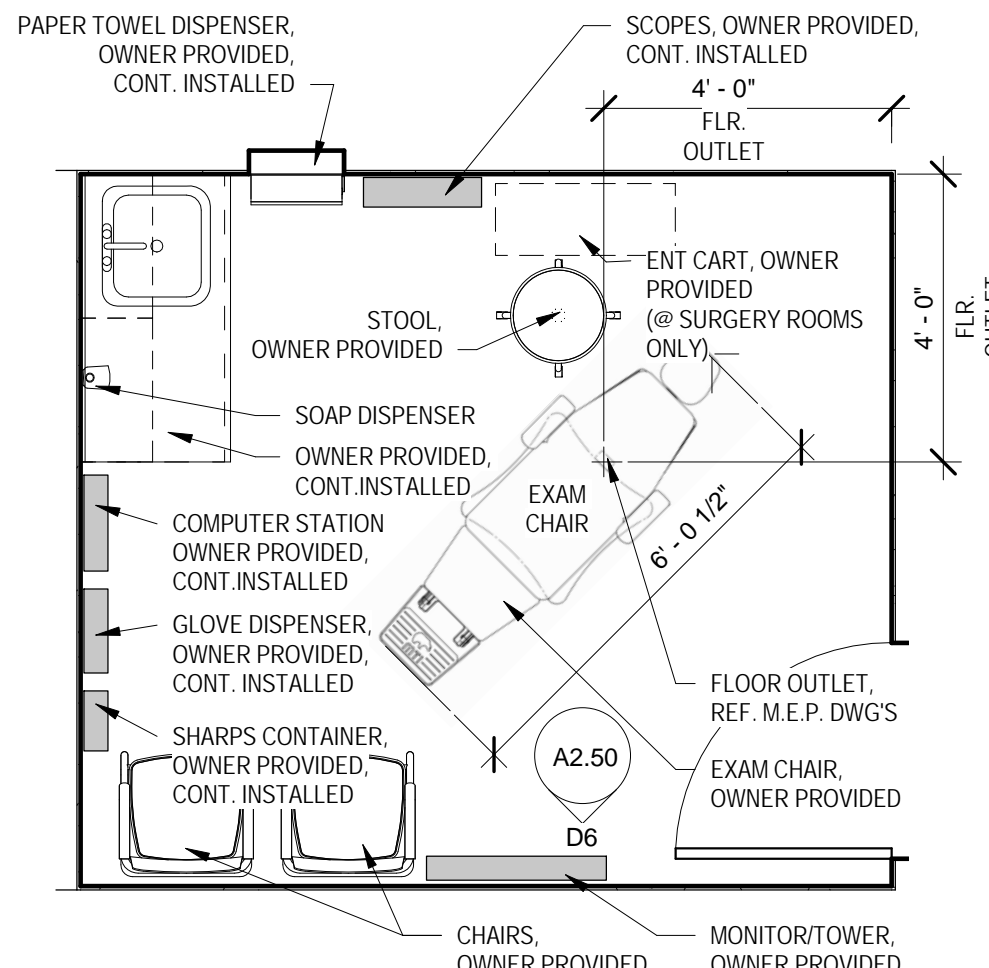
ROOF PLAN A1
3/32" = 1'-0"



NOTE:
PROVIDE WOOD BLOCKING IN WALL FOR COMPUTER
WALL MOUNTING BRACKET @ 42" O.C. ABOVE FINISH FLOOR



NOTE:
PROVIDE WOOD BLOCKING IN WALL FOR COMPUTER
WALL MOUNTING BRACKET @ 42" O.C. ABOVE FINISH FLOOR



NOTE:
PROVIDE WOOD BLOCKING IN WALL FOR COMPUTER
WALL MOUNTING BRACKET @ 42" O.C. ABOVE FINISH FLOOR

| KEYNOTE LEGEND 2 | |
|------------------|---|
| KEY | DESCRIPTION |
| 1 | UPPER CABINETS |
| 2 | LOWER CABINETS |
| 3 | QUARTZ COUNTERTOP |
| 4 | SINK, REF. M.E.P. DWG'S |
| 5 | TOILET (TYP.), REF. M.E.P. DWG'S |
| 6 | 36" GRAB BAR |
| 7 | 42" GRAB BAR |
| 8 | TOILET PAPER DISPENSER, OWNER PROVIDED CONTRACTOR INSTALLED |
| 9 | SOAP DISPENSER, OWNER PROVIDED CONTRACTOR INSTALLED |
| 10 | PAPER TOWEL/TRASH DISPENSER |
| 11 | DRINKING FOUNTAINS, REF M.E.P. DWG'S |
| 12 | CERAMIC TILE |
| 13 | DOOR & WINDOW AS SCHEDULE |
| 14 | GYP. BD. TAPED,FLOAT,TEXTURED & PAINTED |

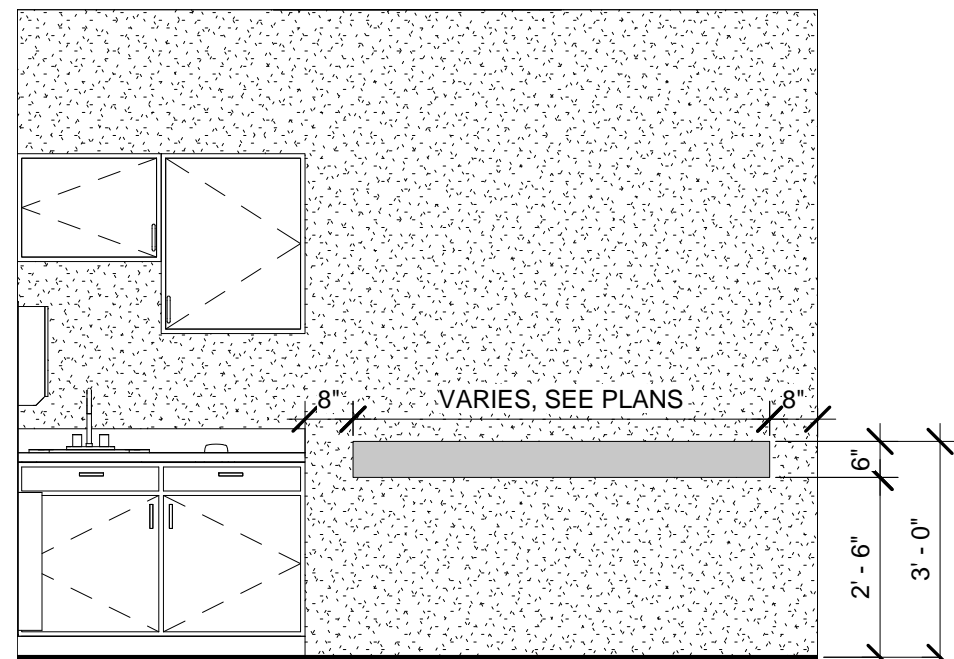
| KEYNOTE LEGEND 2 | |
|------------------|--|
| KEY | DESCRIPTION |
| 15 | 12" x 24" PORCELAIN TILE-AXIOM SILVER FM94-POLISHED w/MAPEI 107 IRON GROUT |
| 16 | MIRROR, 24" X 36" STAINLESS STEEL FRAME |
| 17 | SOLID PLASTIC TOILET PARTITION |
| 18 | BABY CHANGING STATION, OWNER PROVIDED CONTRACTOR INSTALLED |
| 19 | 3" x 24" PORCELAIN TILE BULLNOSE-AXIOM SILVER FM94-POLISHED w/MAPEI 107 IRON GROUT |
| 20 | ADA URINAL, REF. M.E.P. DWG'S |
| 21 | ADA TOILET, REF. M.E.P. DWG'S |
| 22 | URINAL DIVIDING PARTITION |
| 23 | NURSE'S STATION QUARTZ COUNTERTOP |
| 24 | CUSTOM SUSPENDED CEILING |
| 25 | COVE LIGHTING, SEE M.E.P. DWG'S |
| 26 | CAN LIGHTS, SEE M.E.P. DWG'S |
| 28 | WALL BASE AS SCHEDULE |
| 29 | FURNITURE & APPLIANCES, OWNER PROVIDED |
| 30 | WALL BASE AS SCHEDULE |
| 31 | TALL CABINETS |
| 32 | WALL HUNG SINK, w/ PIPE JACKET, REF. M.E.P. DWG'S |

CHAIR RAIL DETAIL
ELEVATION 3 - TYPICAL D6
3/8" = 1'-0"

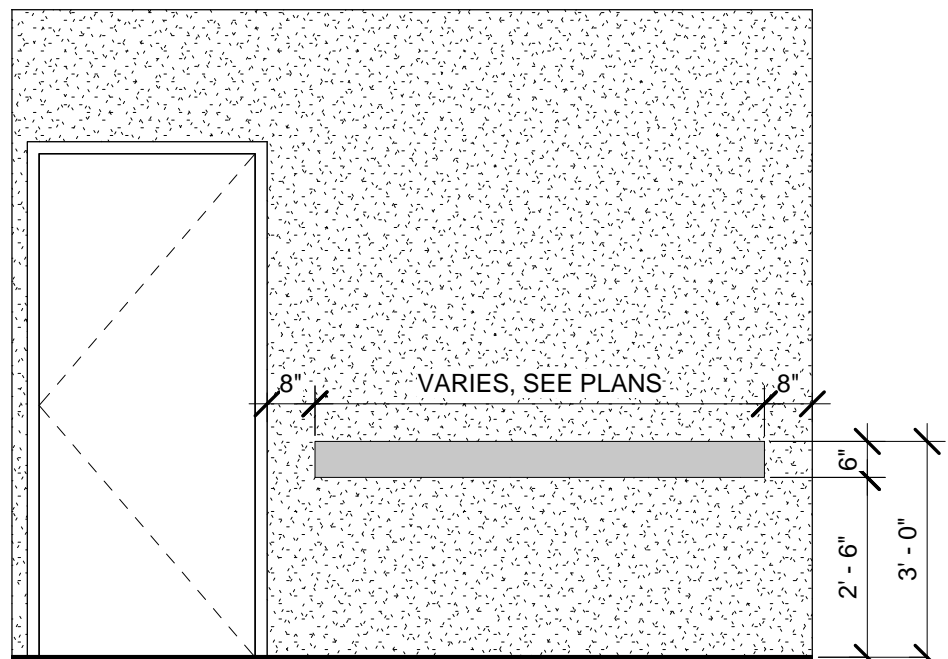
SHARED PROCEDURE 1 HC
& SHARED PROCEDURE 2 D5
3/8" = 1'-0"

SURGERY EXAM ROOMS - HANDICAP D4
3/8" = 1'-0"

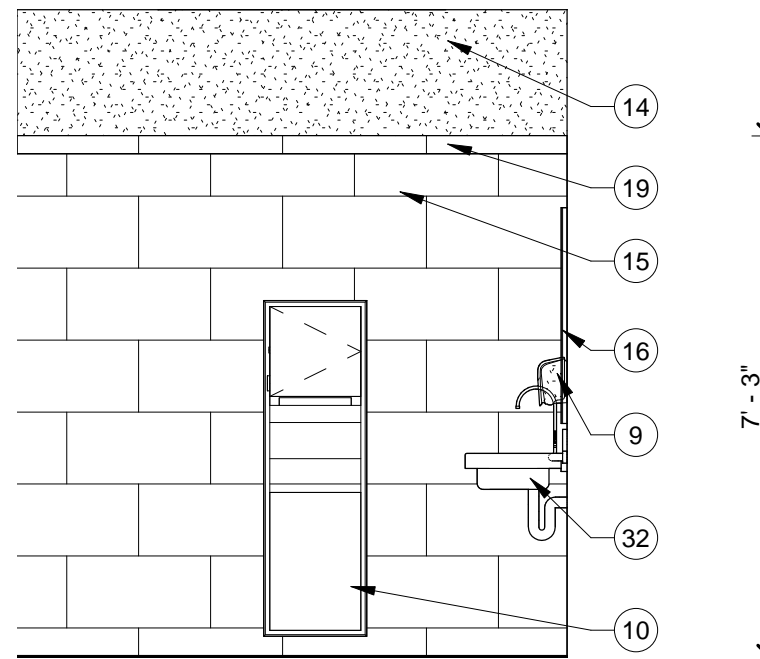
TYPICAL SURGERY EXAM ROOM D3
3/8" = 1'-0"



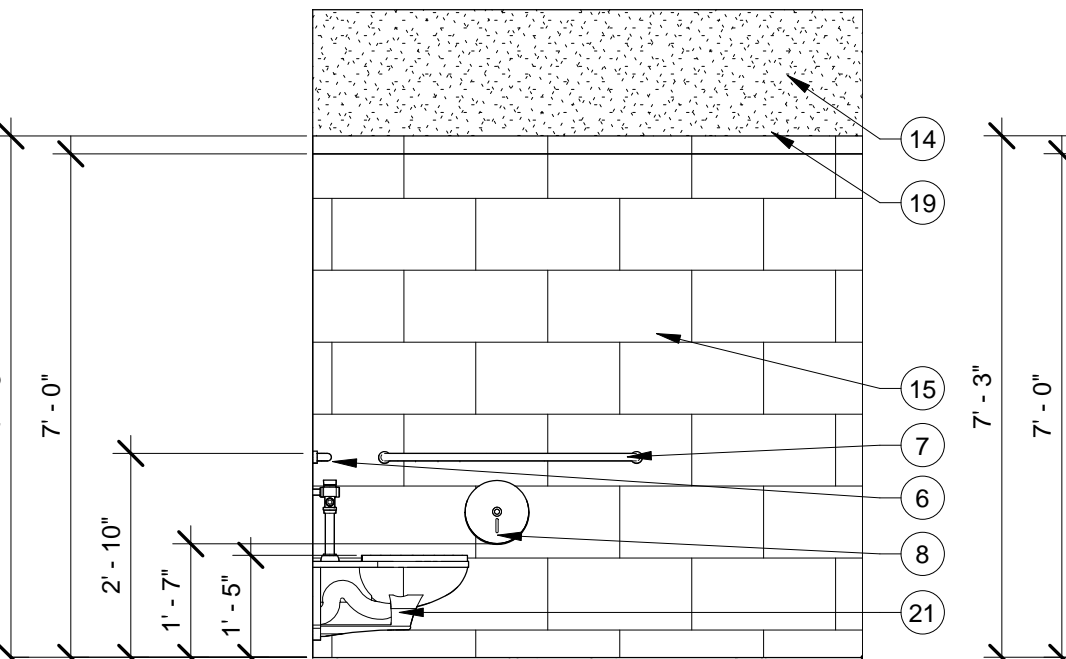
CHAIR RAIL DETAIL
ELEVATION 2 - TYPICAL C6
3/8" = 1'-0"



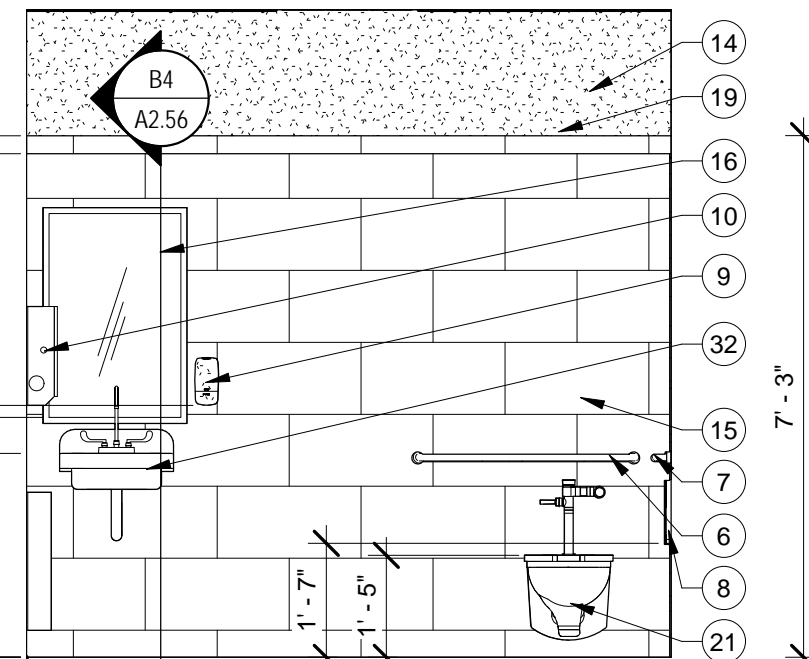
CHAIR RAIL DETAIL
ELEVATION 1 - TYPICAL C5
3/8" = 1'-0"



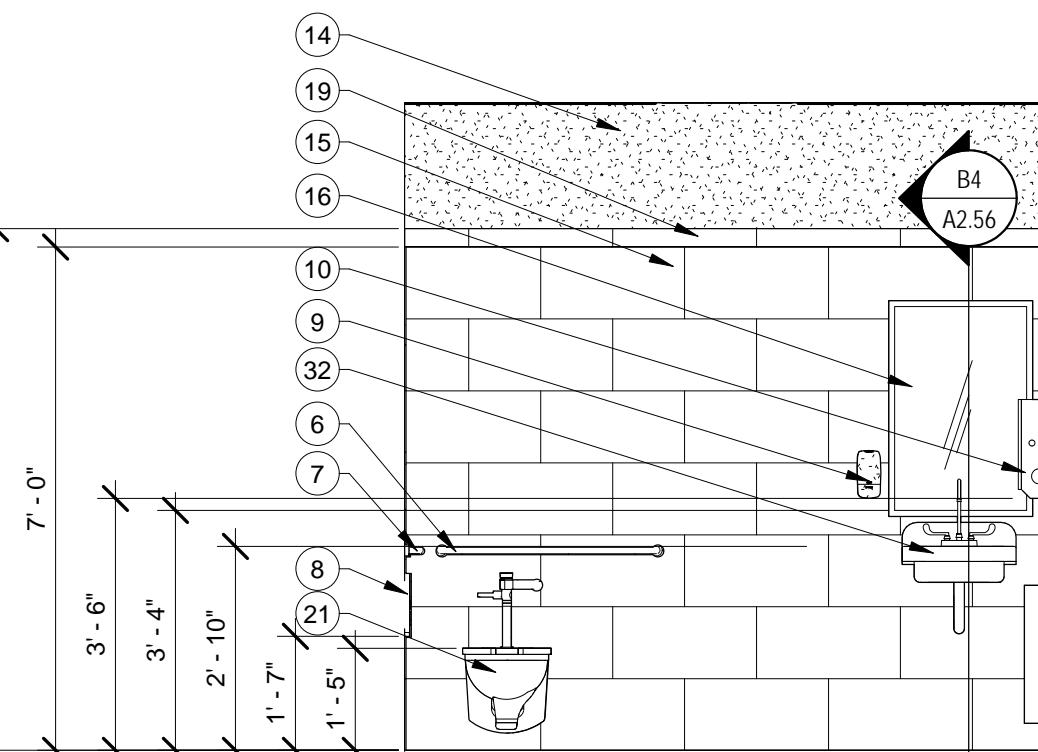
ADULT STAFF RESTROOM 2
INTERIOR ELEVATION - EAST C4
3/8" = 1'-0"



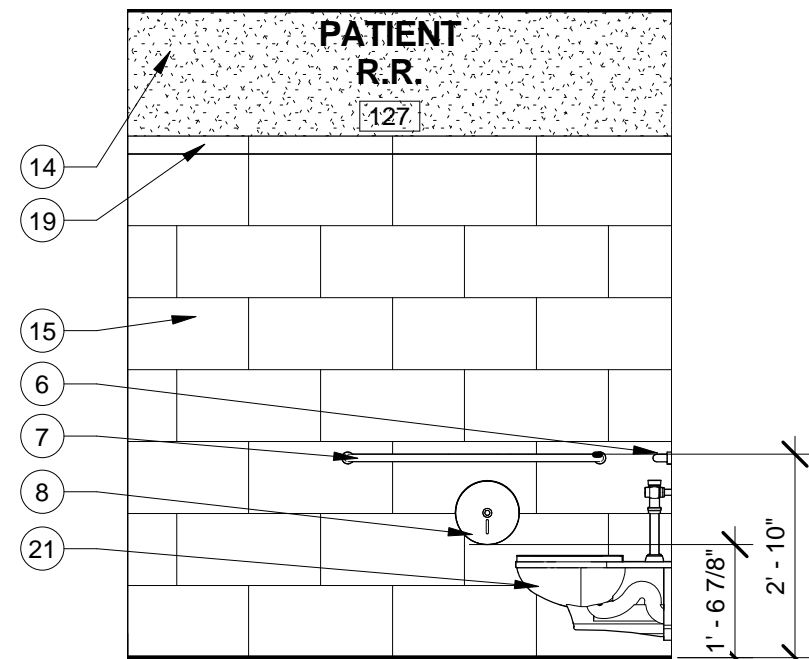
ADULT STAFF RESTROOM 2
INTERIOR ELEVATION - WEST C3
3/8" = 1'-0"



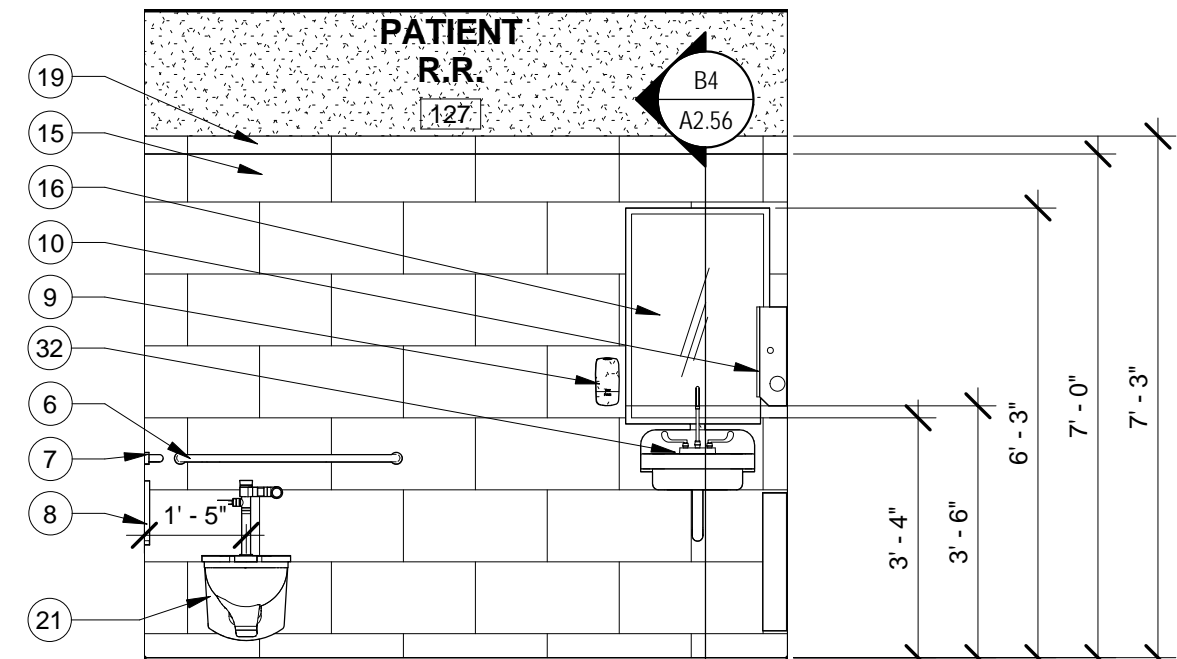
ADULT STAFF RESTROOM 2
INTERIOR ELEVATION - SOUTH C2
3/8" = 1'-0"



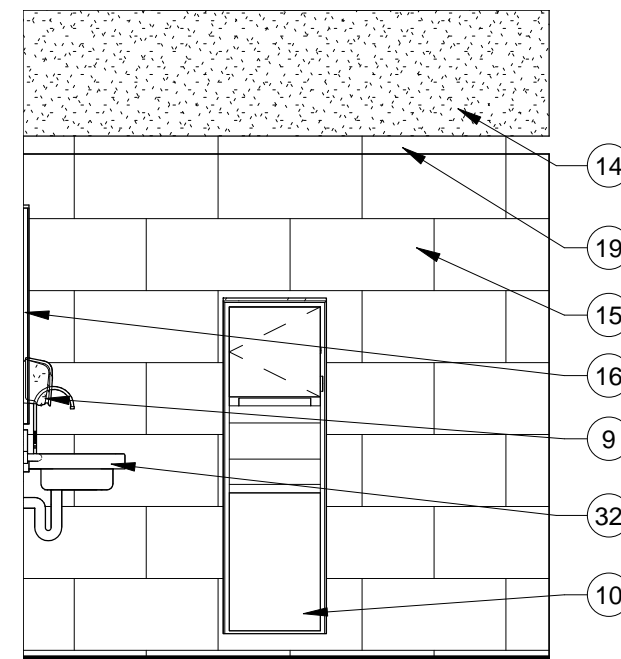
ADULT STAFF RESTROOM 1
INTERIOR ELEVATION - NORTH C1
3/8" = 1'-0"



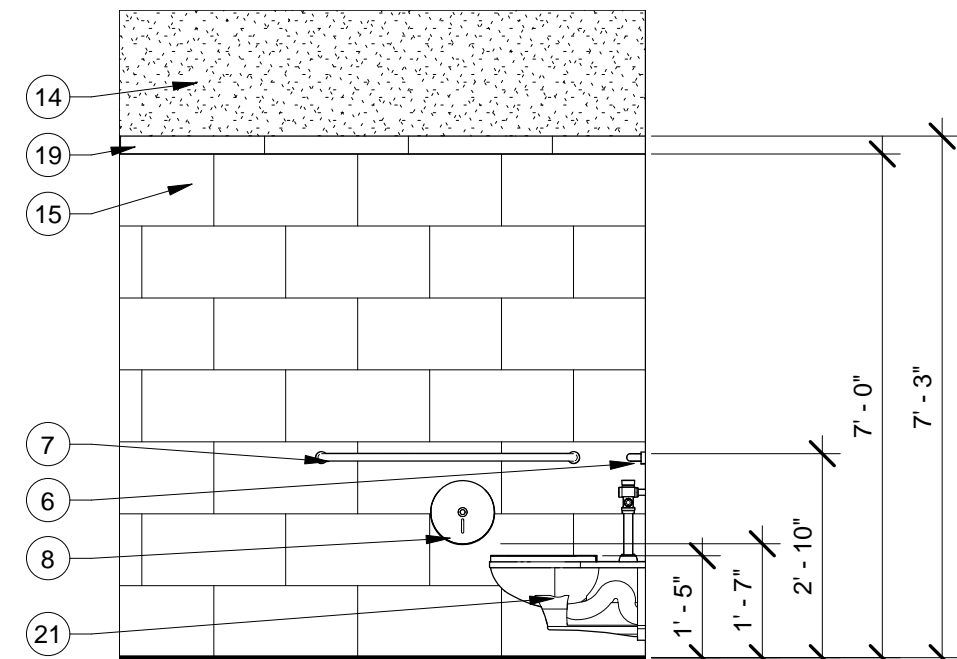
PATIENT R.R. 127
INTERIOR ELEVATION - WEST B5
3/8" = 1'-0"



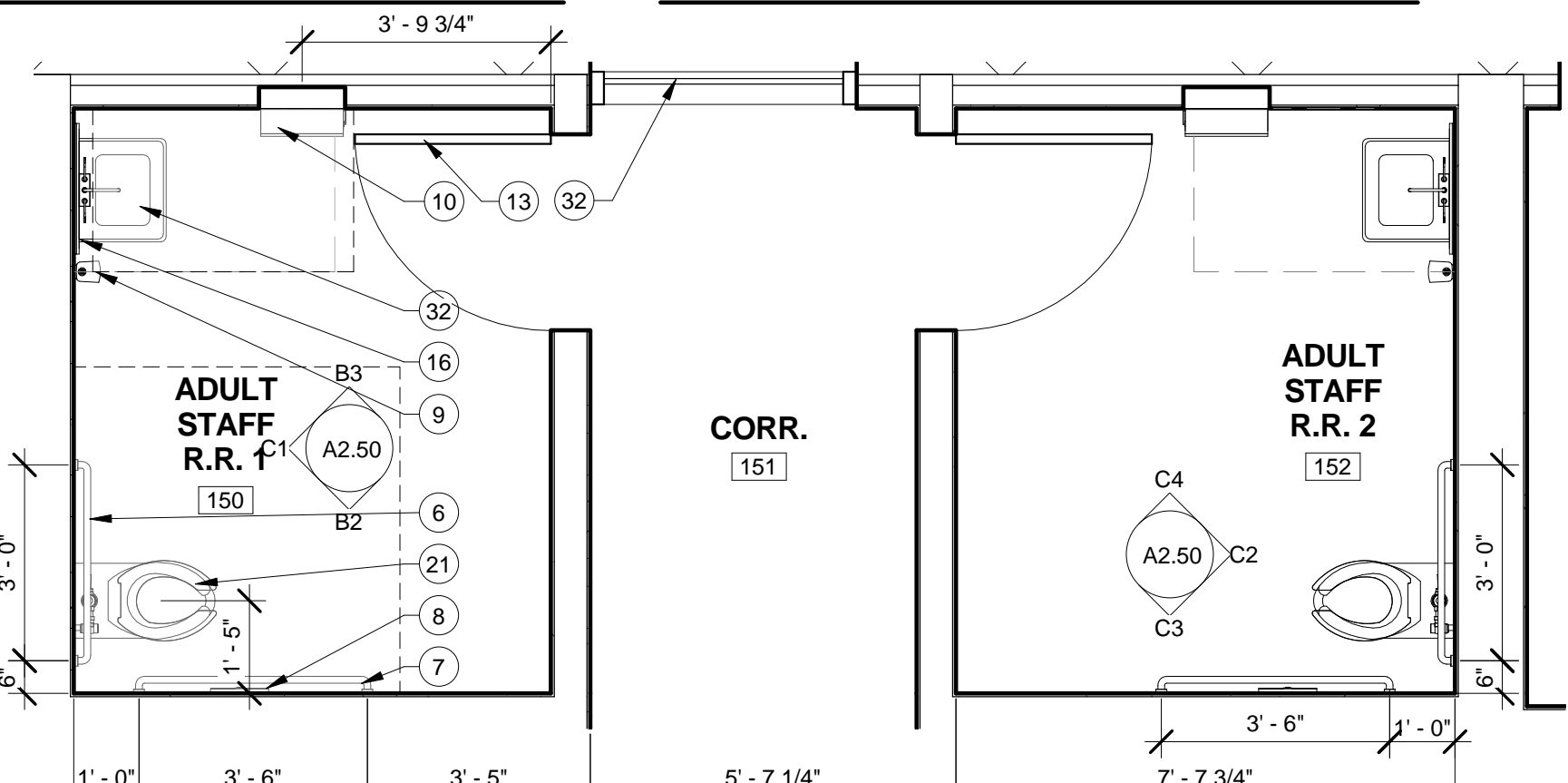
PATIENT R.R. 127
INTERIOR ELEVATION - NORTH B4
3/8" = 1'-0"



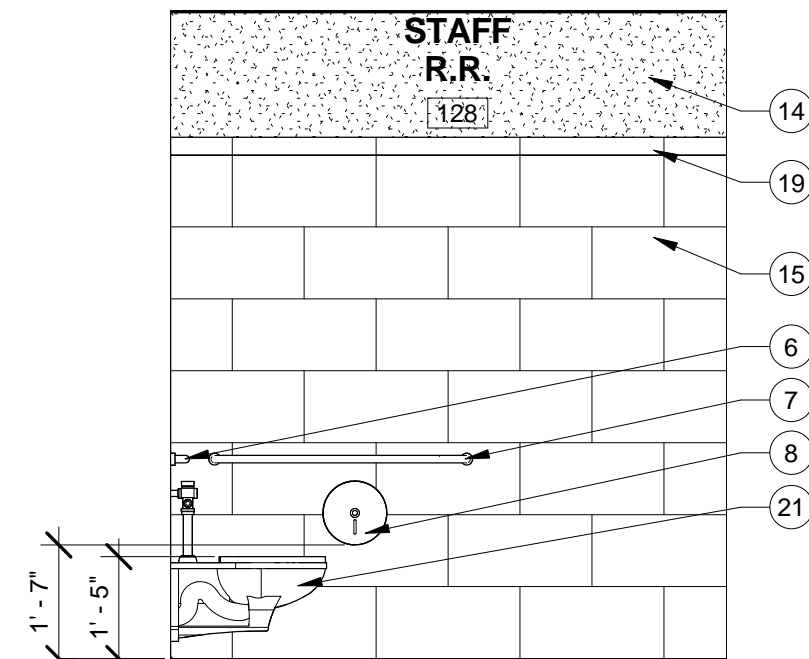
ADULT STAFF RESTROOM 1
INTERIOR ELEVATION - EAST B3
3/8" = 1'-0"



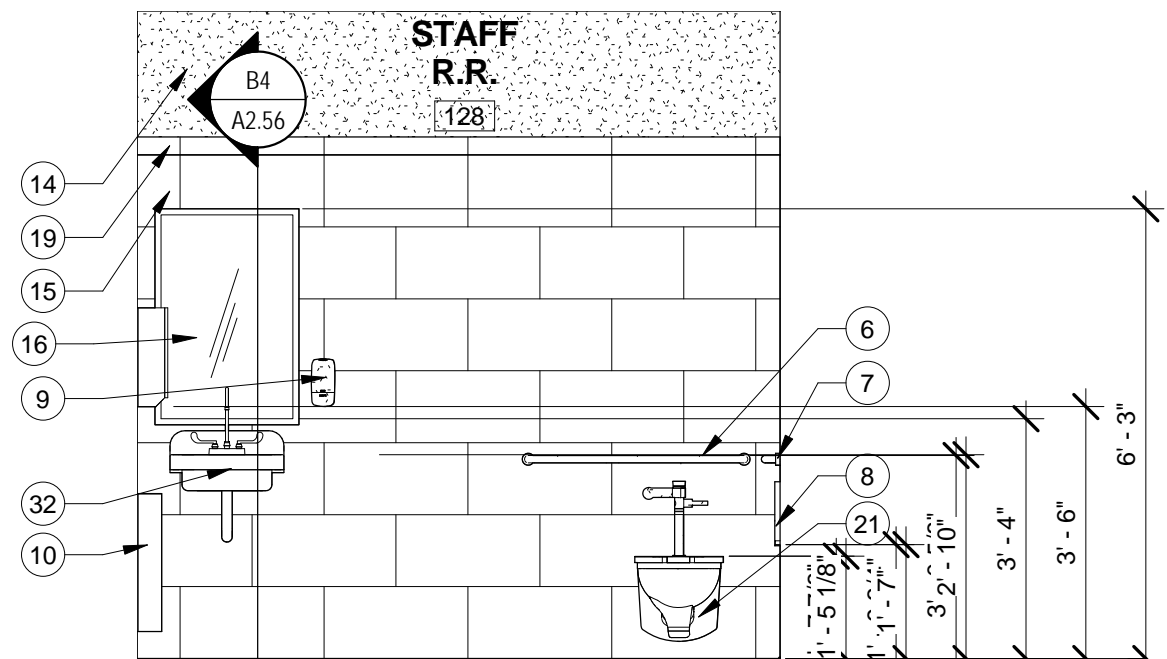
ADULT STAFF RESTROOM 1
INTERIOR ELEVATION - WEST B2
3/8" = 1'-0"



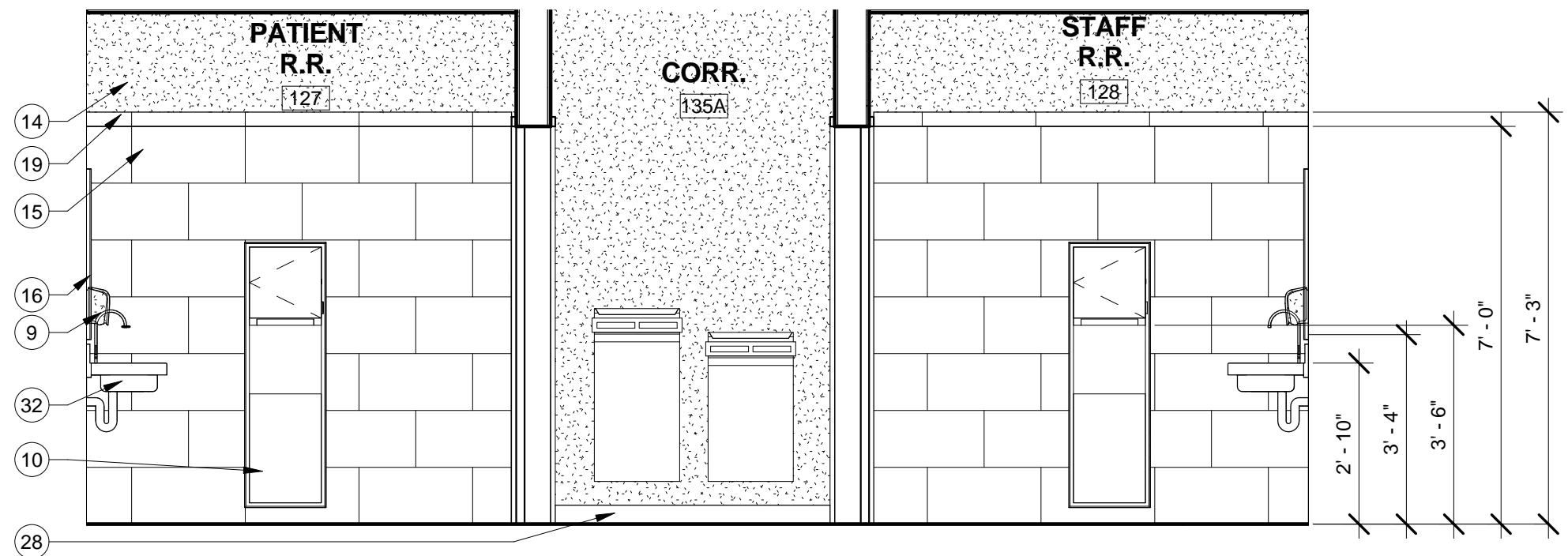
ADULT STAFF 1 & 2 RESTROOM PLANS B1
3/8" = 1'-0"



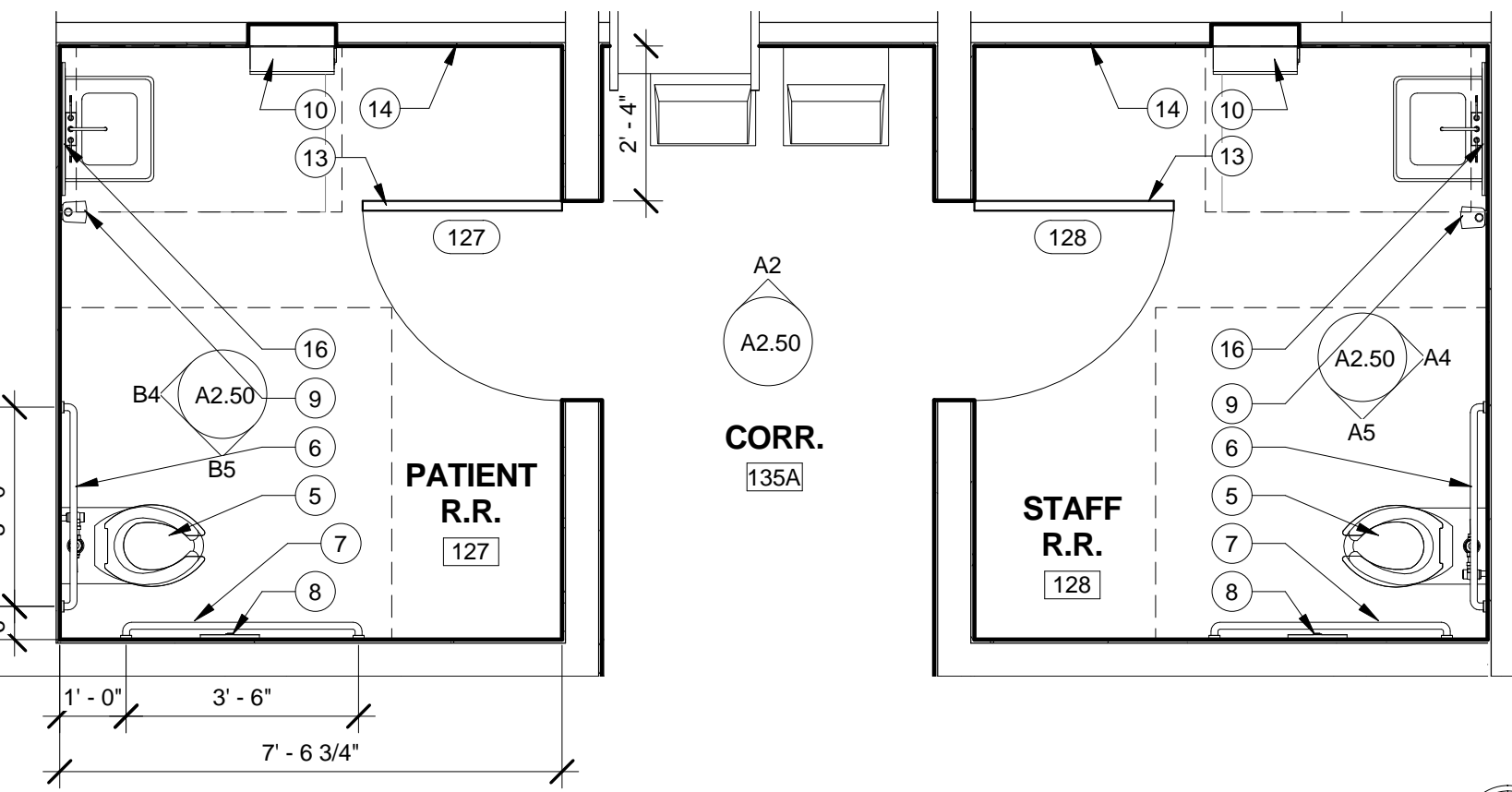
STAFF R.R. 128
INTERIOR ELEVATION - WEST A5
3/8" = 1'-0"



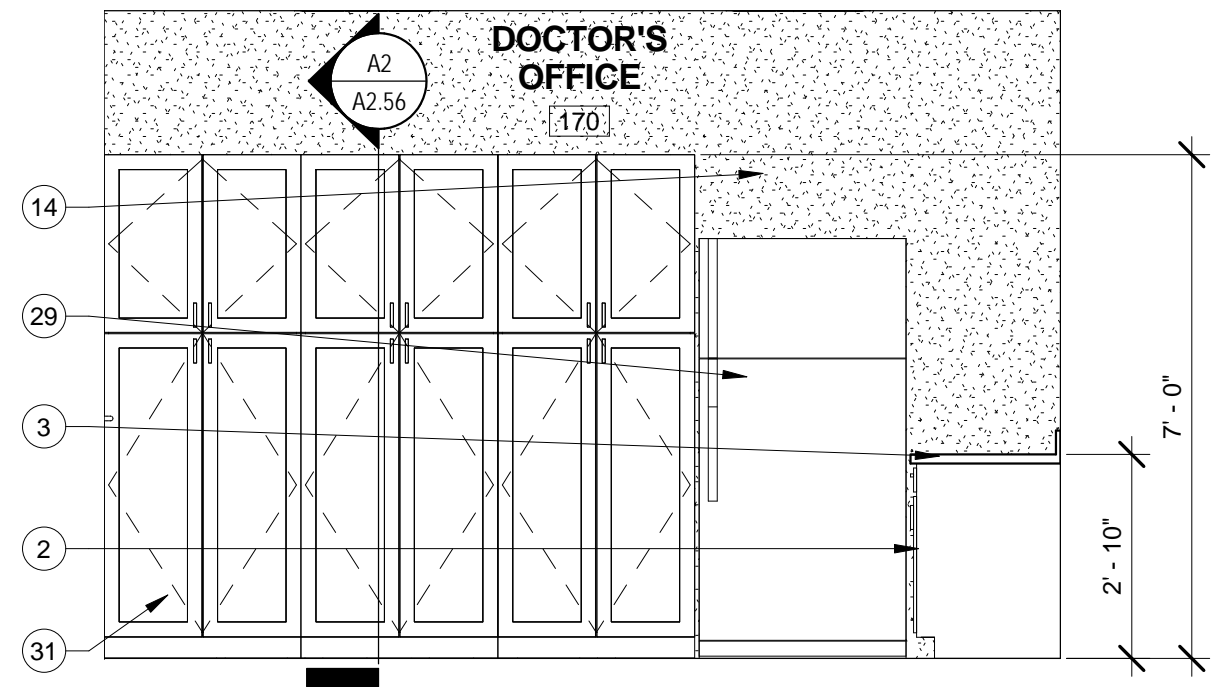
STAFF R.R. 128
INTERIOR ELEVATION - SOUTH A4
3/8" = 1'-0"



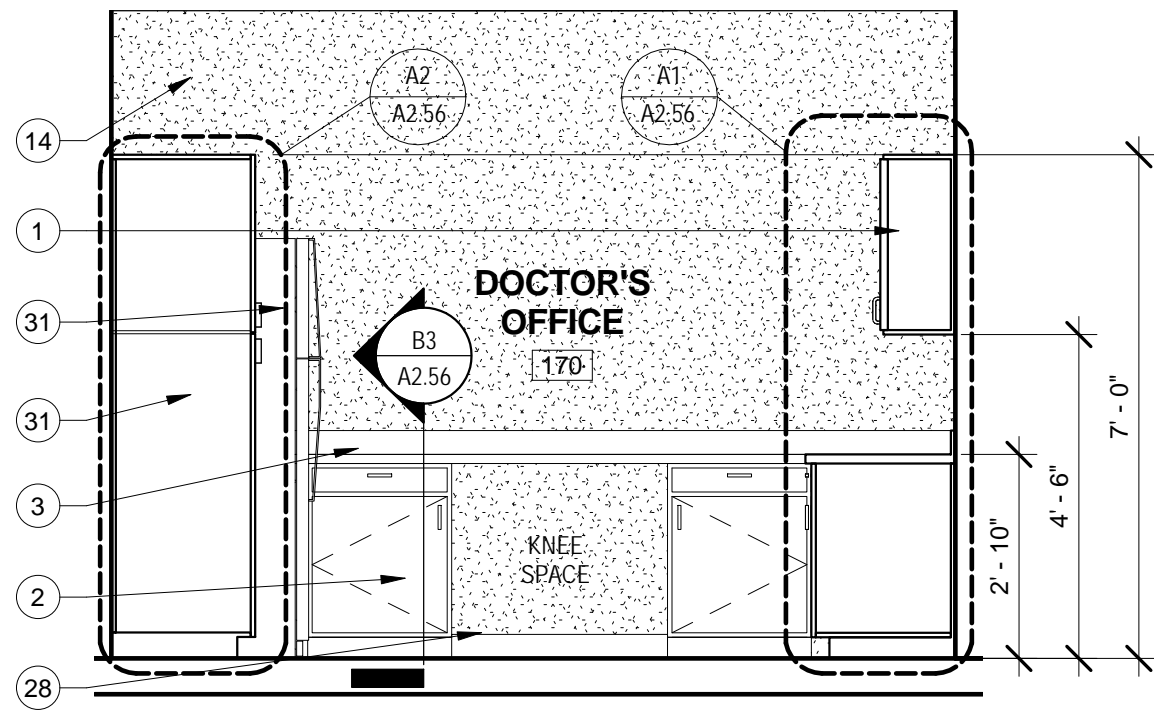
PATIENT/STAFF RESTROOM & DRINKING
FOUNTAINS INTERIOR ELEVATION A2
3/8" = 1'-0"



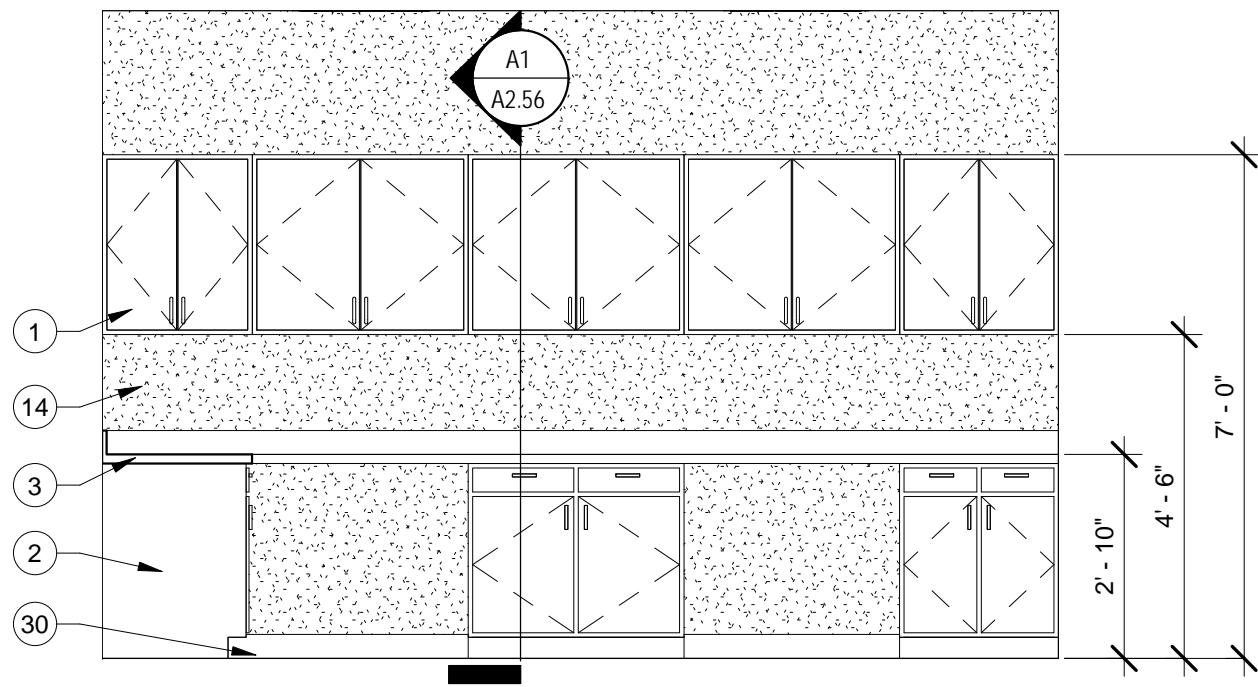
PATIENT/STAFF/DRINKING FOUNTAIN PLAN A1
3/8" = 1'-0"



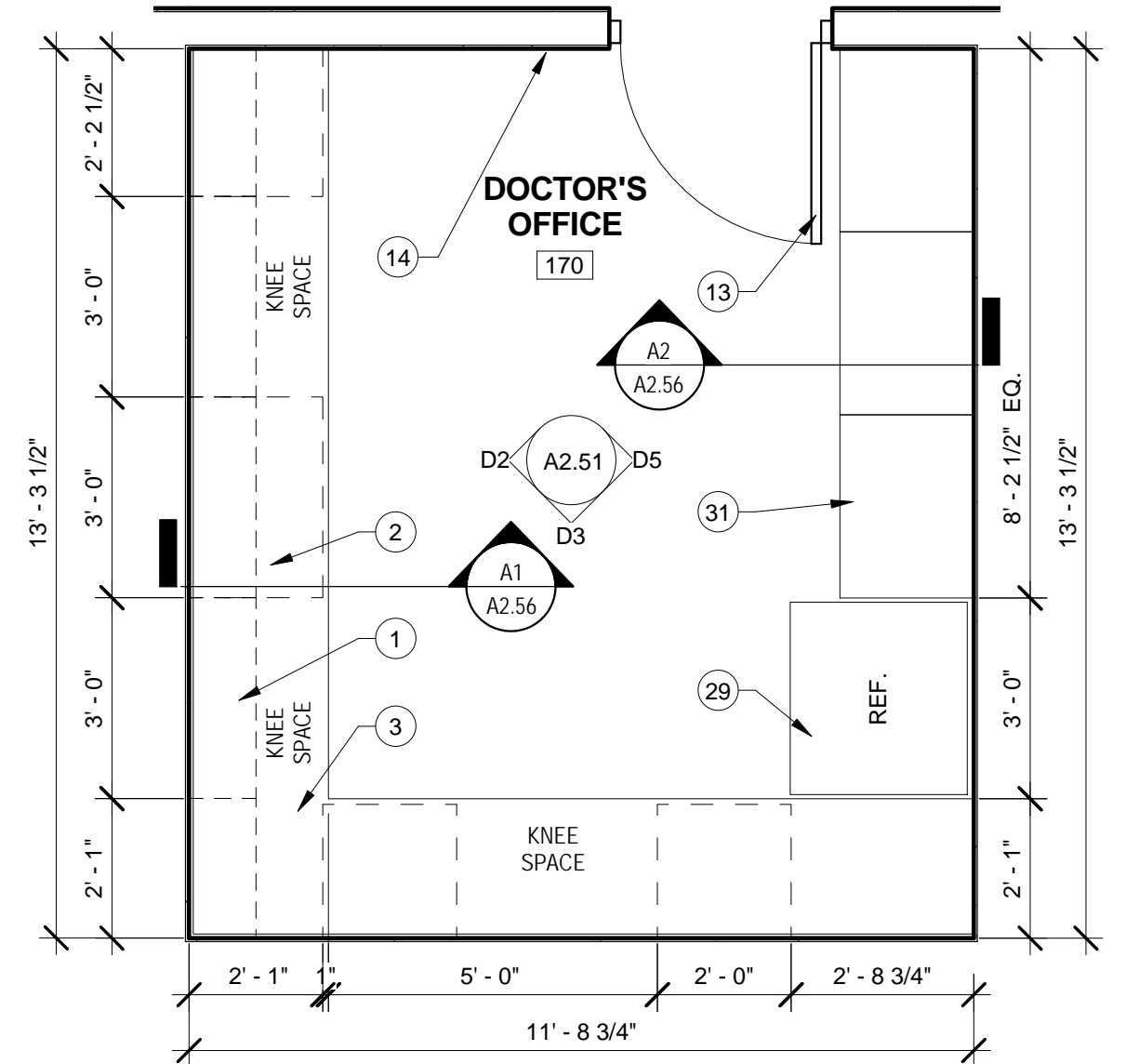
DOCTOR'S OFFICE
INTERIOR ELEVATION - SOUTH D5
3/8" = 1'-0"



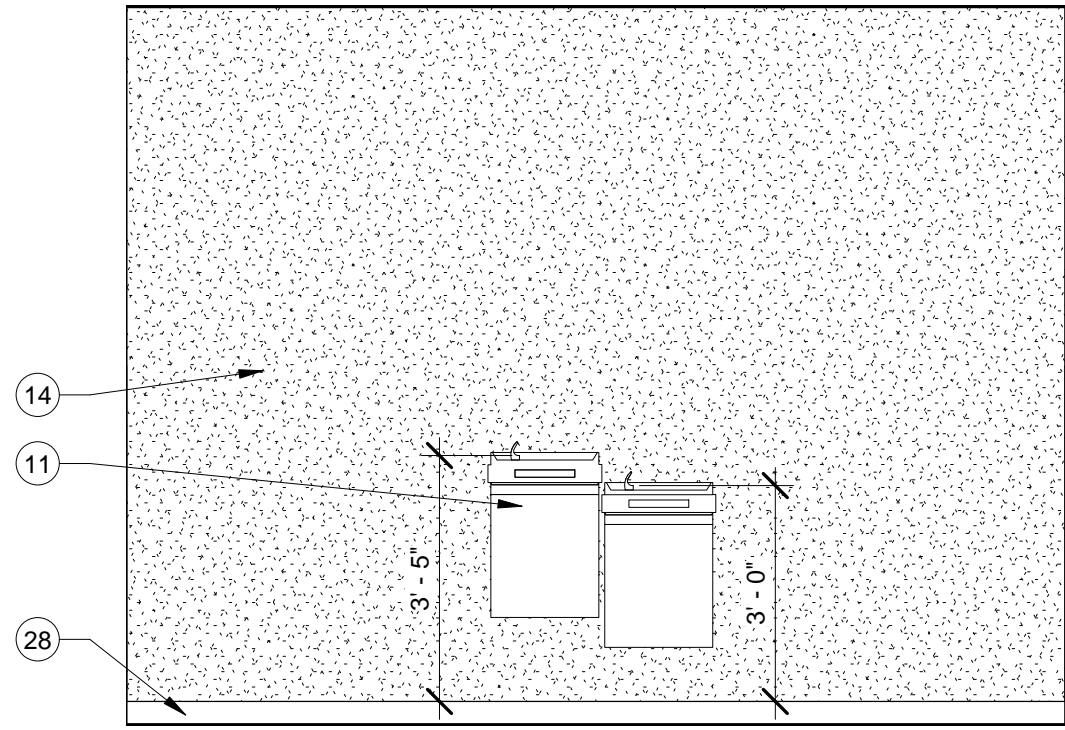
DOCTOR'S OFFICE
INTERIOR ELEVATION - WEST D3
3/8" = 1'-0"



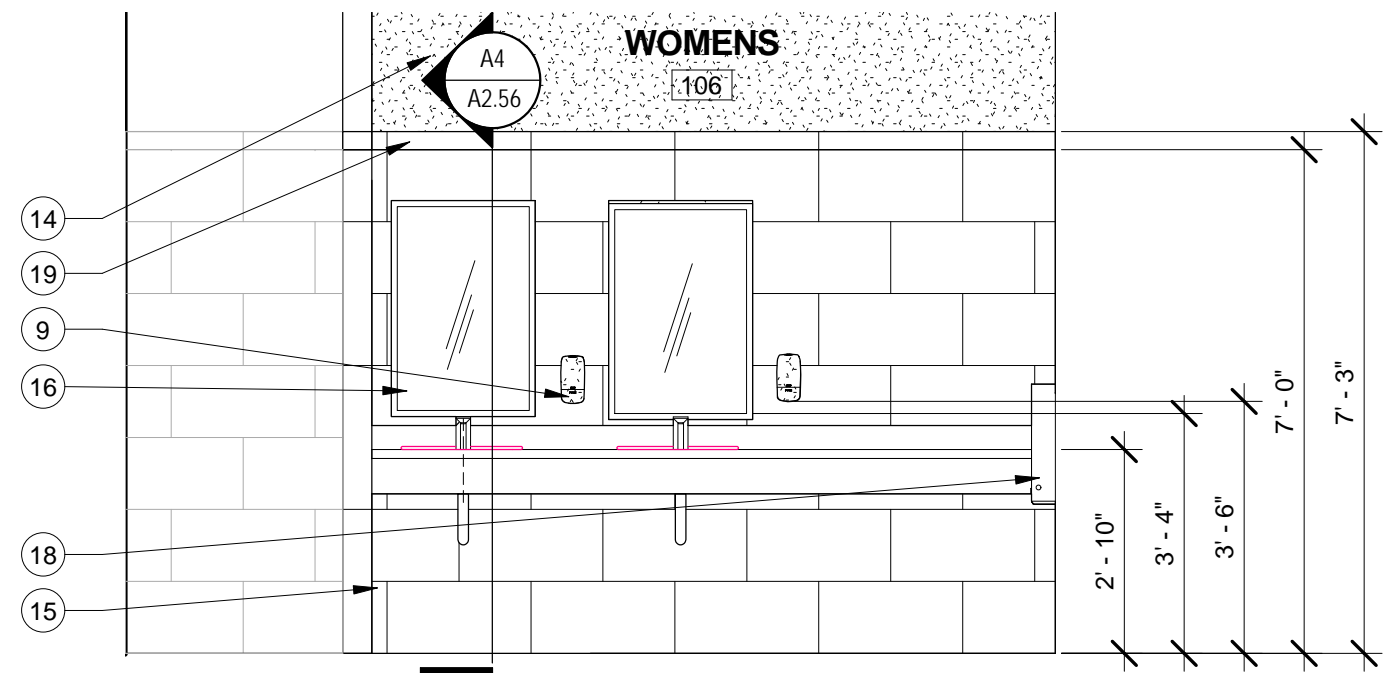
DOCTOR'S OFFICE
INTERIOR ELEVATION - NORTH D2
3/8" = 1'-0"



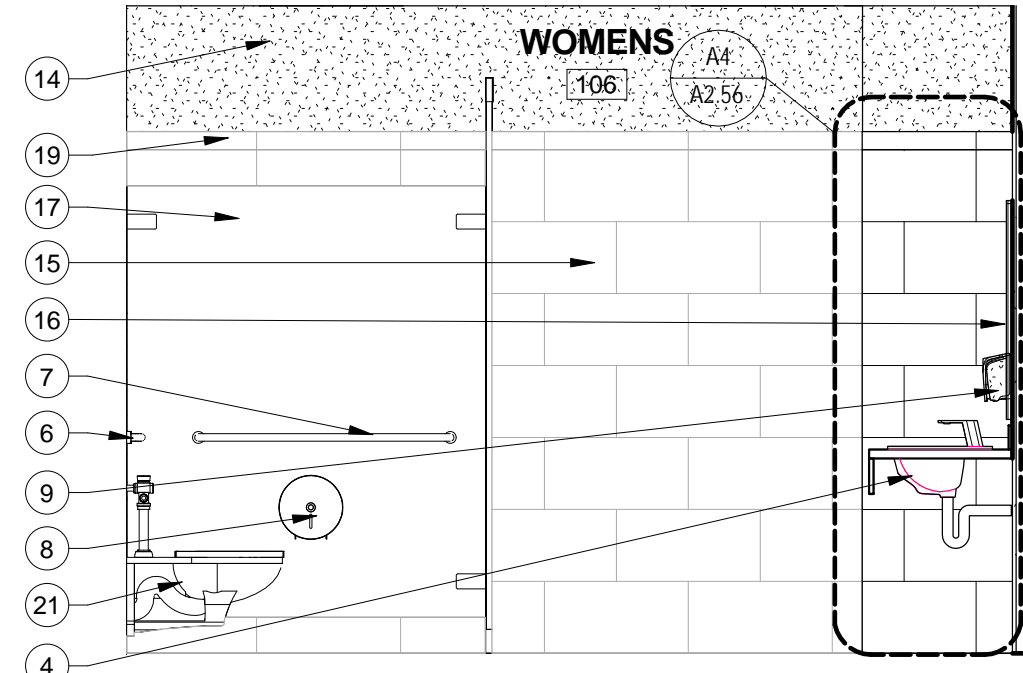
DOCTOR'S OFFICE PLAN C5
3/8" = 1'-0"



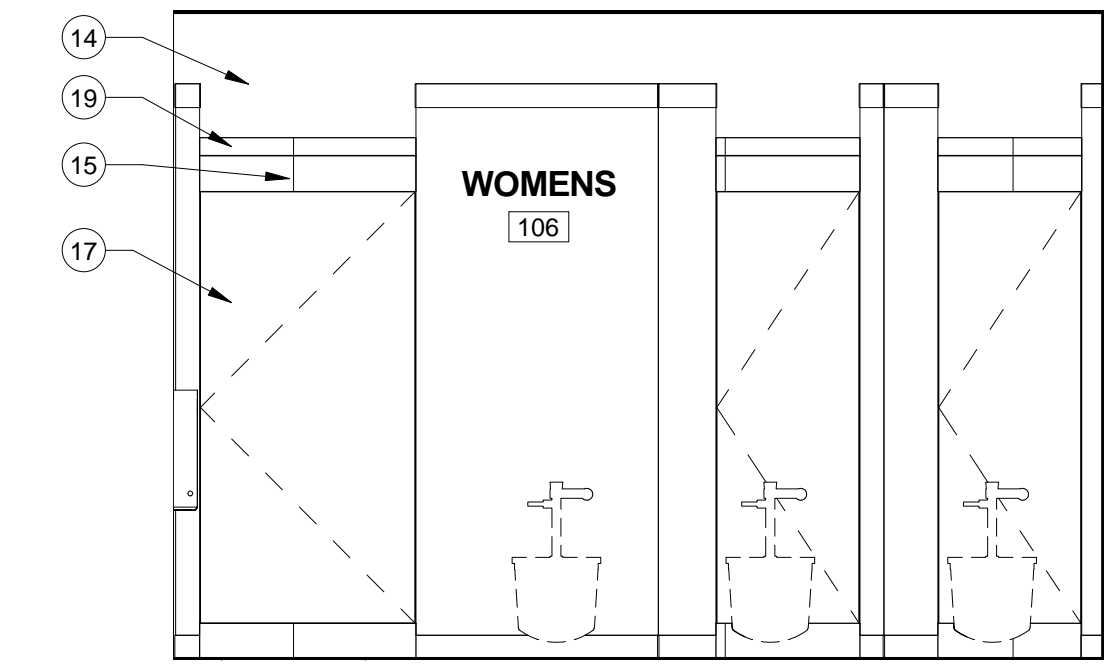
DRINKING FOUNTAIN
INTERIOR ELEVATION - CORRIDOR 105 C3
3/8" = 1'-0"



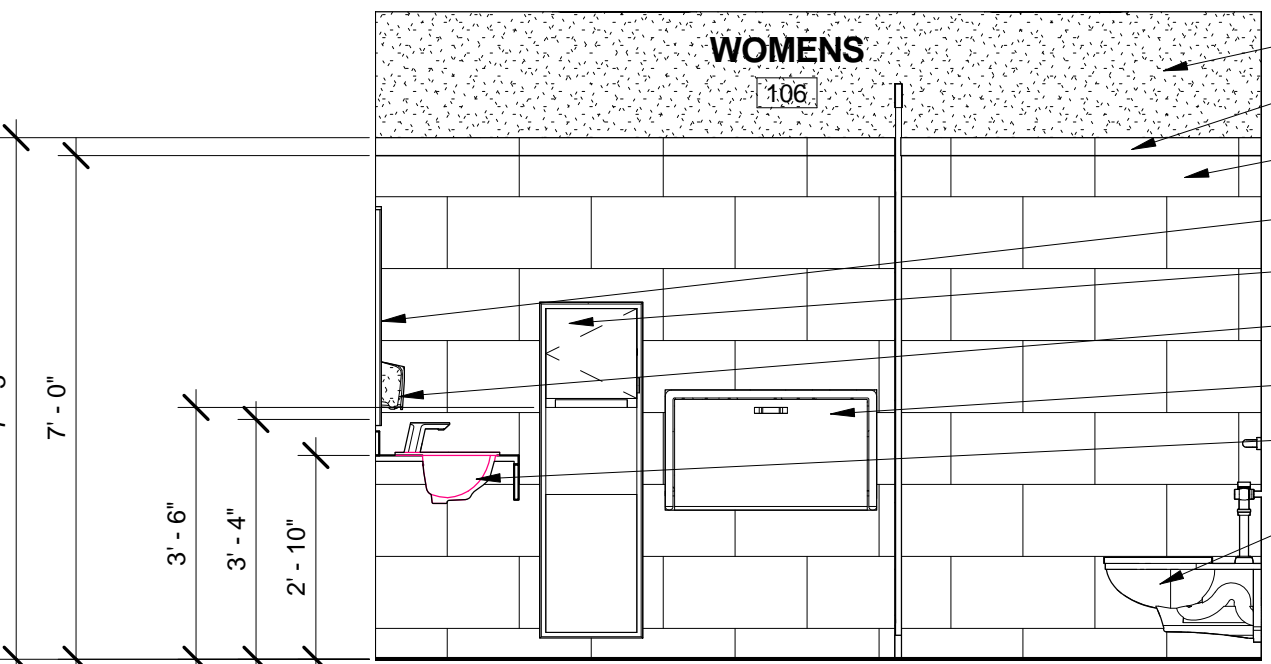
WOMEN'S INTERIOR ELEVATION - WEST C2
3/8" = 1'-0"



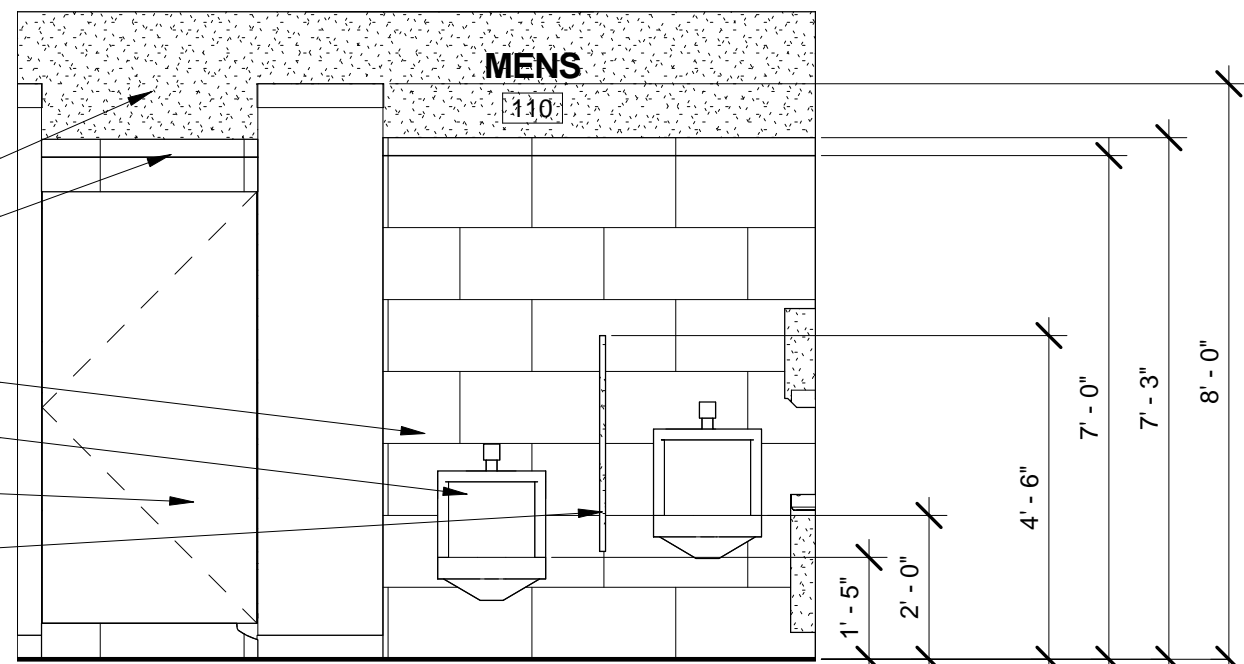
WOMEN'S INTERIOR ELEVATION - SOUTH C1
3/8" = 1'-0"



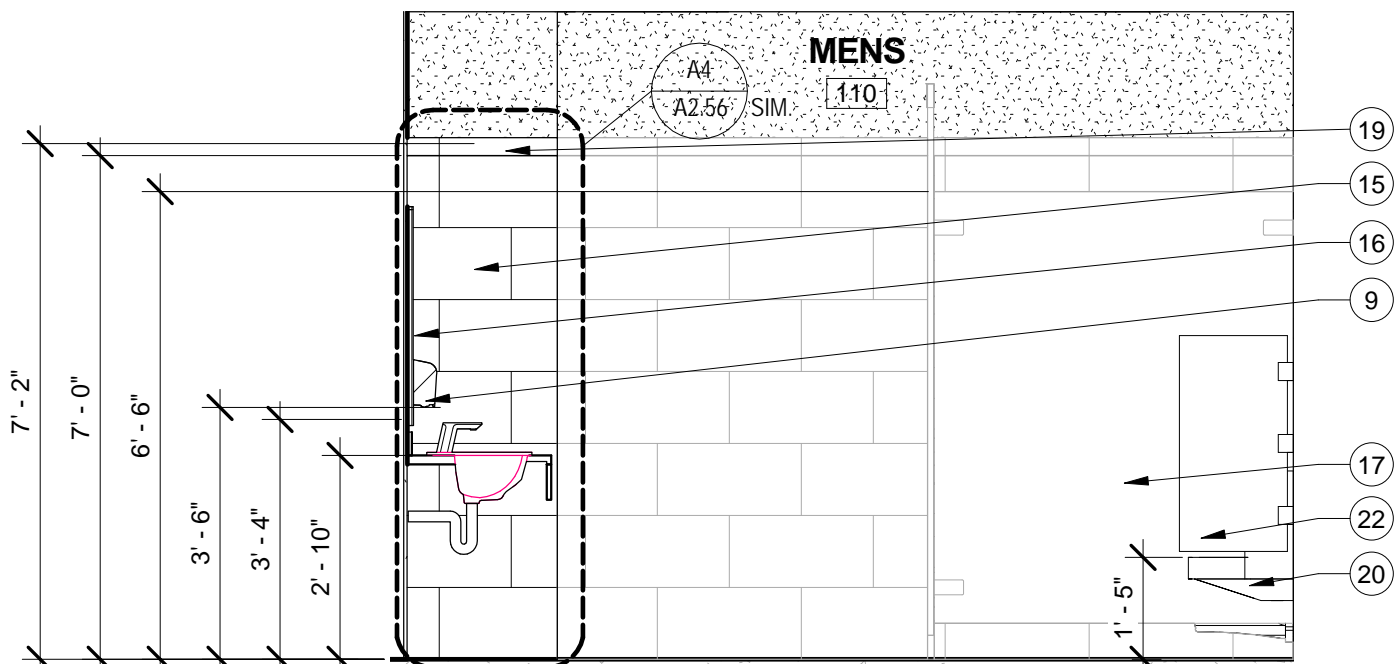
WOMEN'S INTERIOR ELEVATION - EAST B5
3/8" = 1'-0"



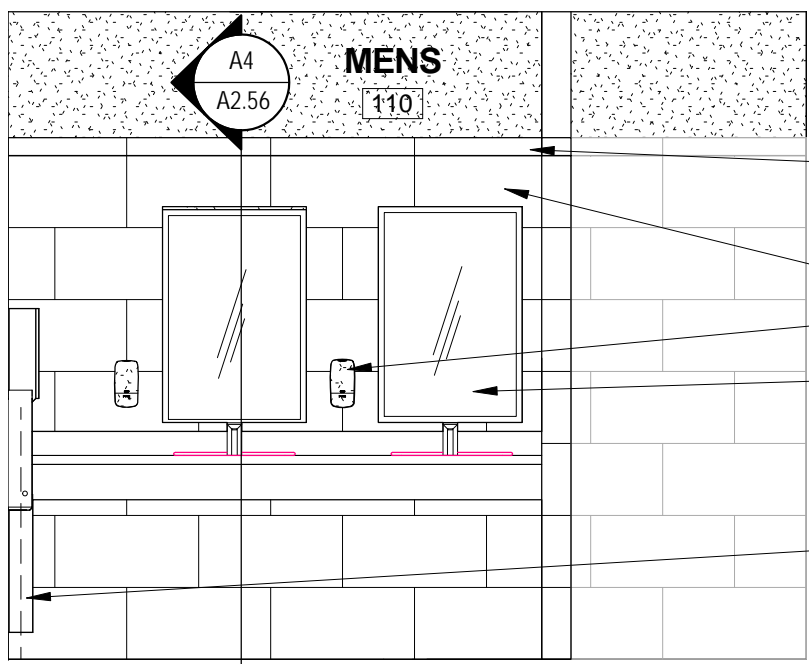
WOMEN'S INTERIOR ELEVATION - NORTH B4
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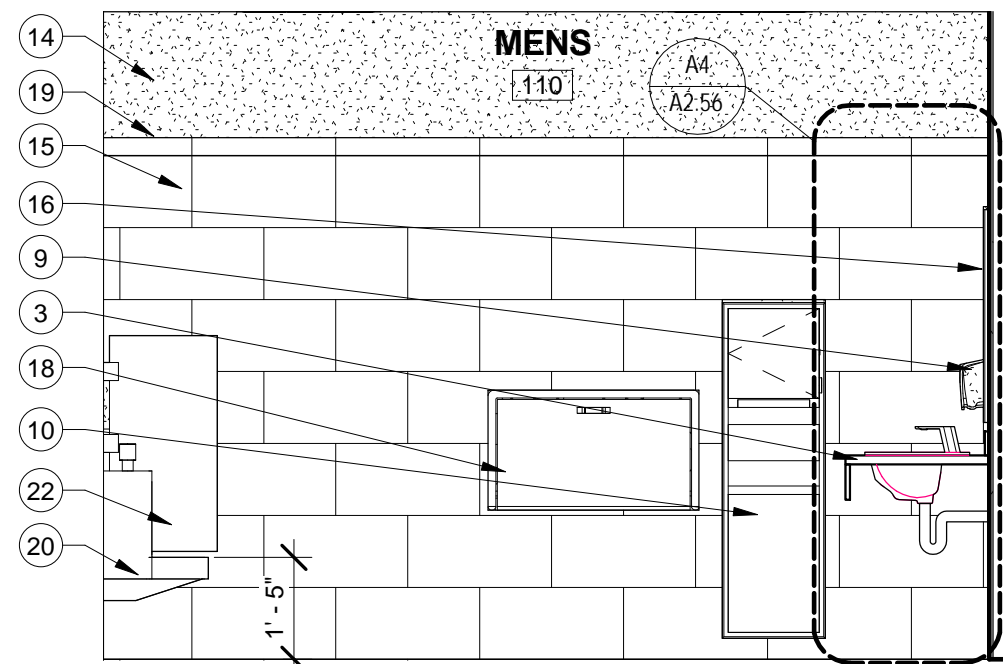
MEN'S INTERIOR ELEVATION - EAST B3
3/8" = 1'-0"



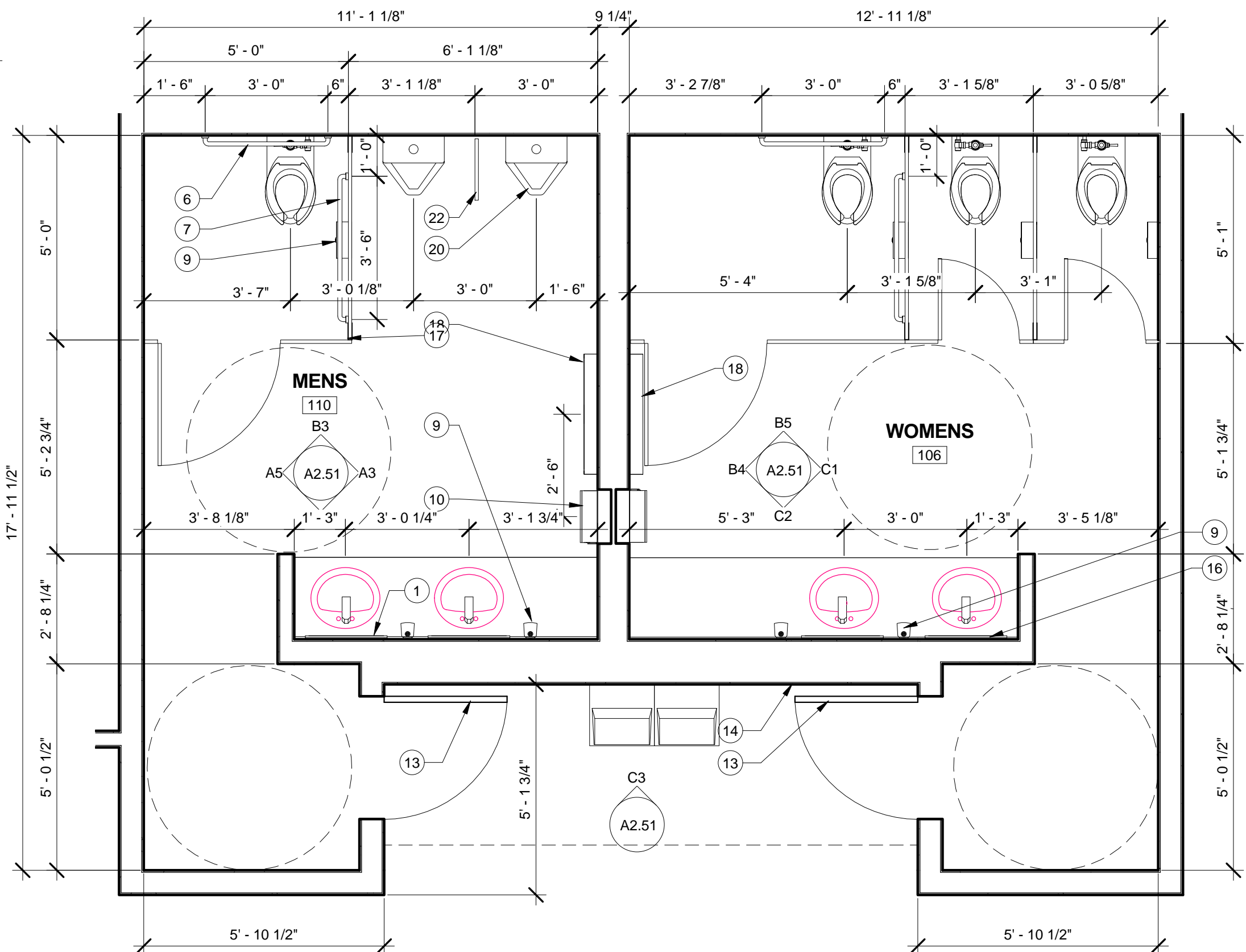
MEN'S INTERIOR ELEVATION - NORTH A5
3/8" = 1'-0"



MEN'S INTERIOR ELEVATION - WEST A4
3/8" = 1'-0"



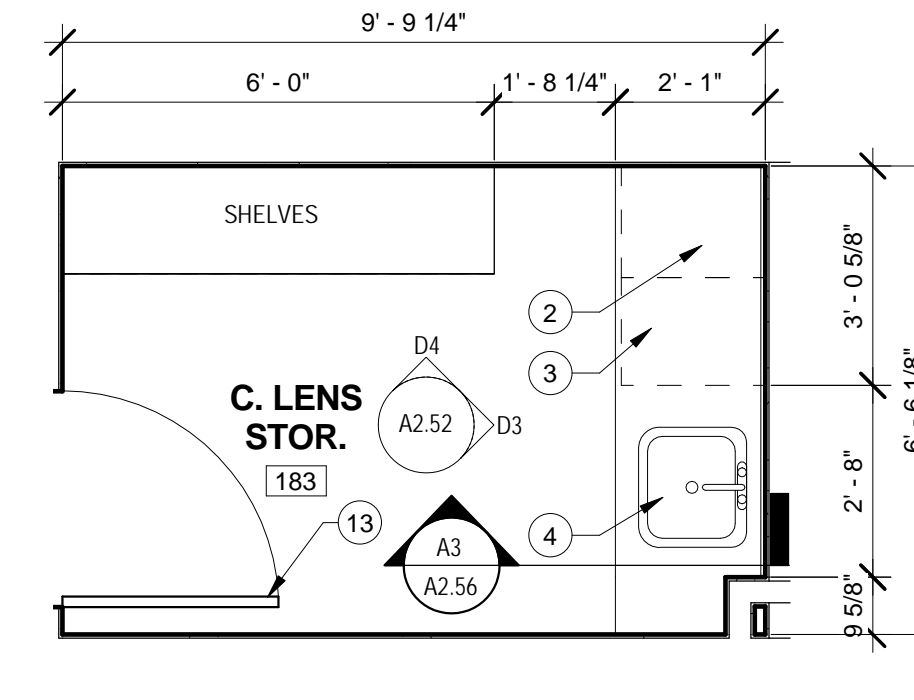
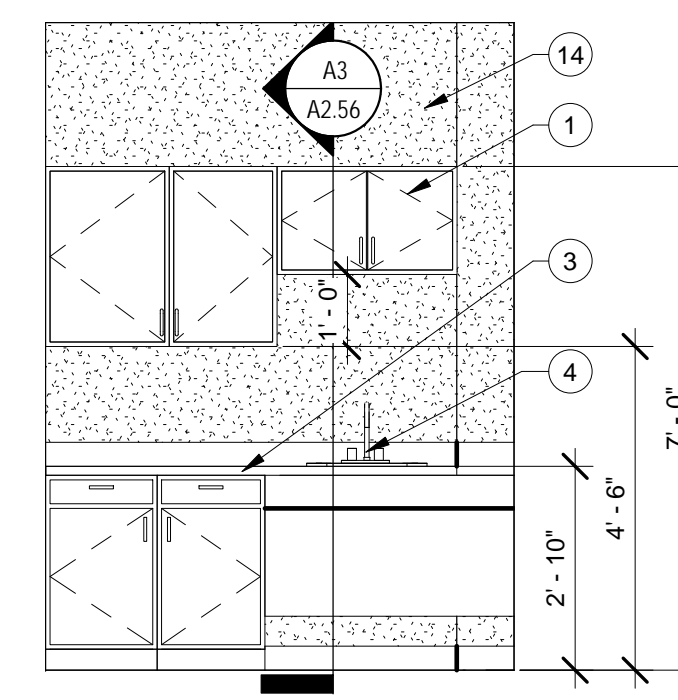
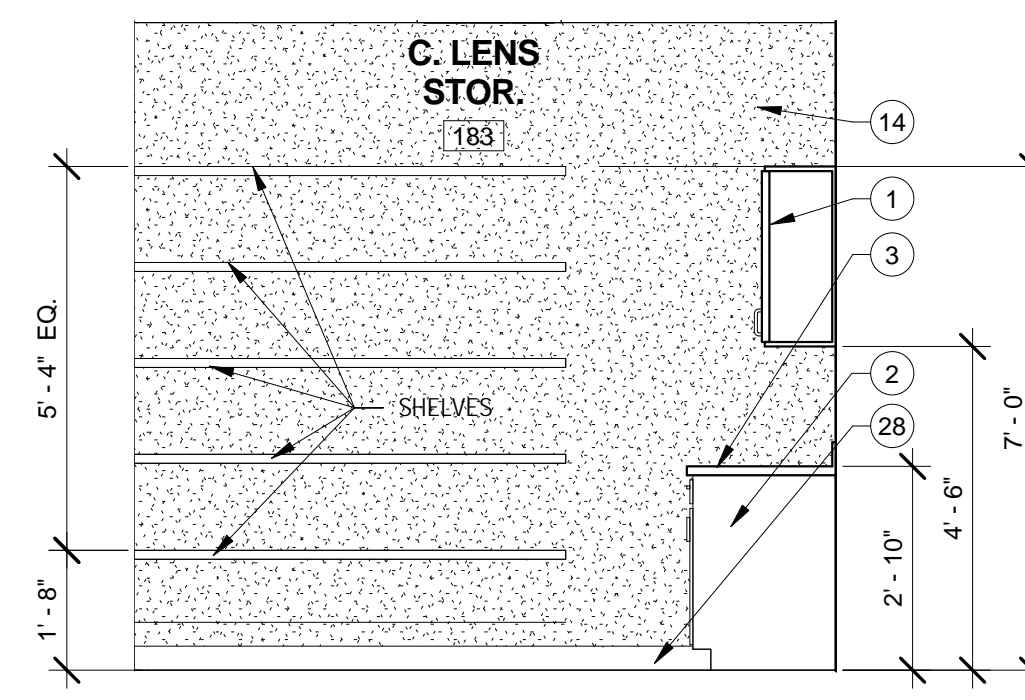
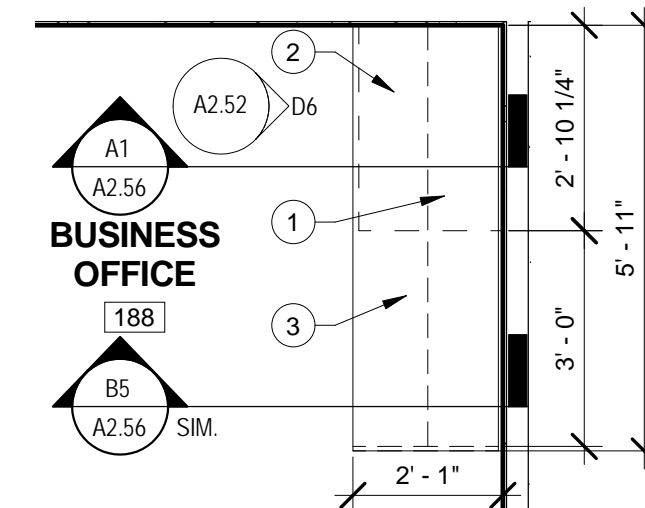
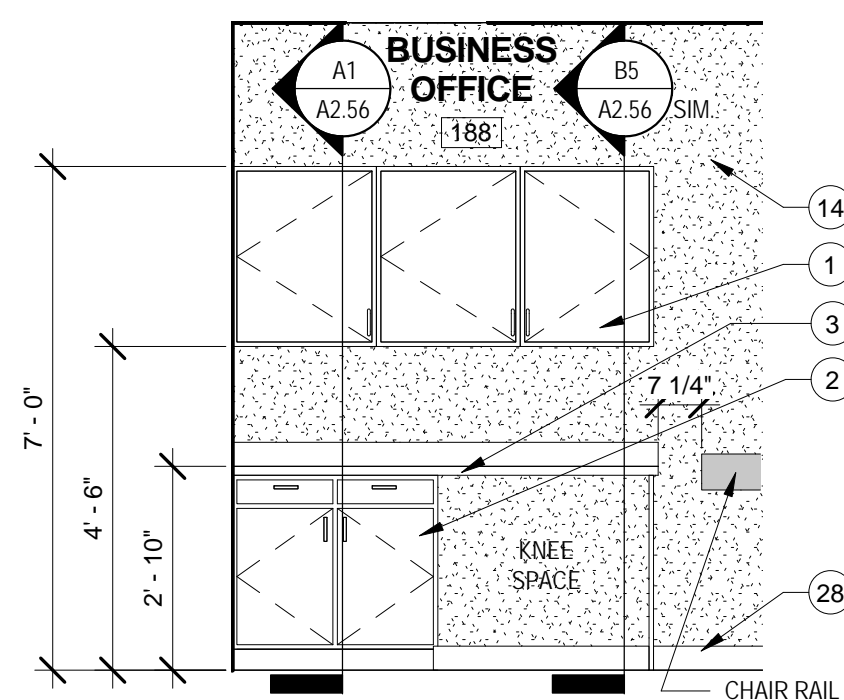
MEN'S INTERIOR ELEVATION- SOUTH A3
3/8" = 1'-0"



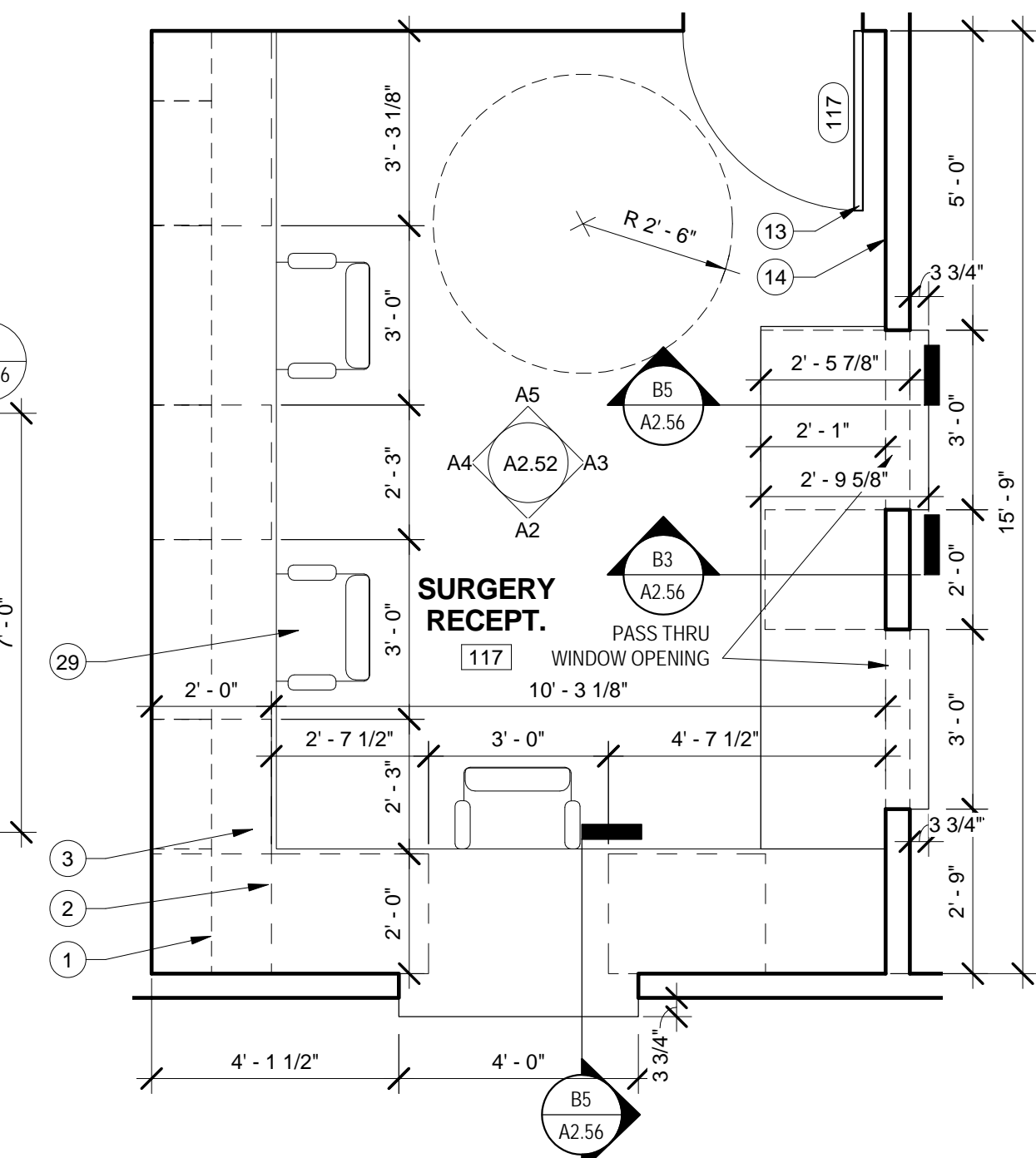
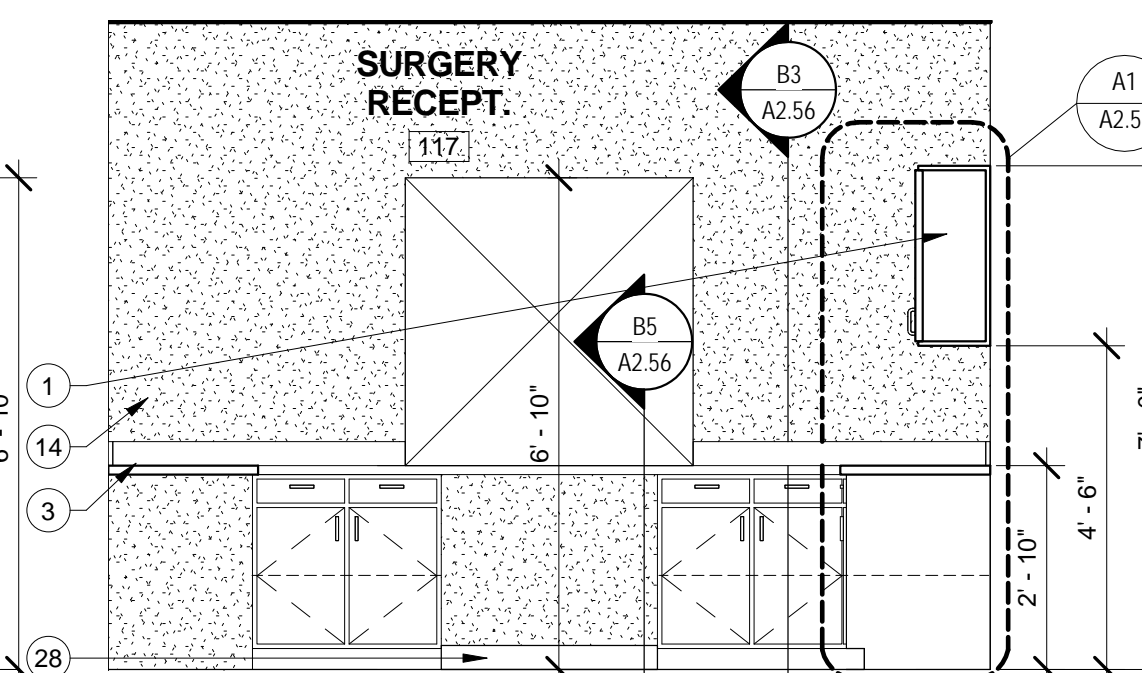
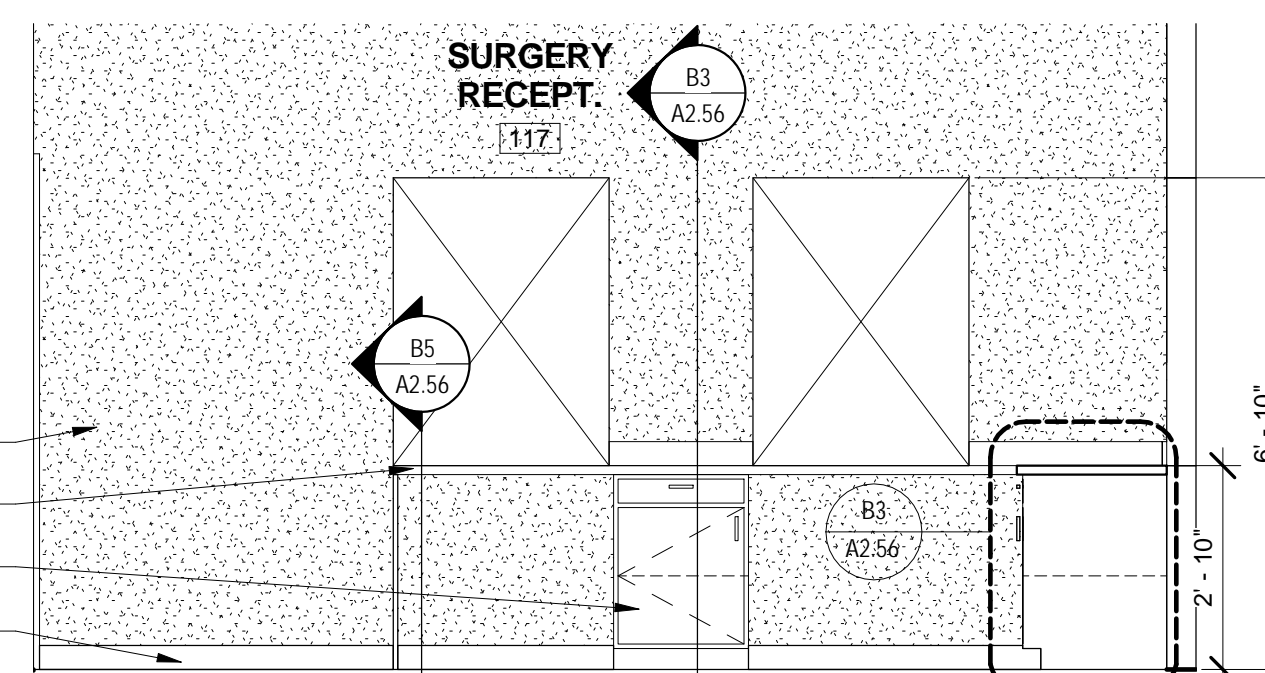
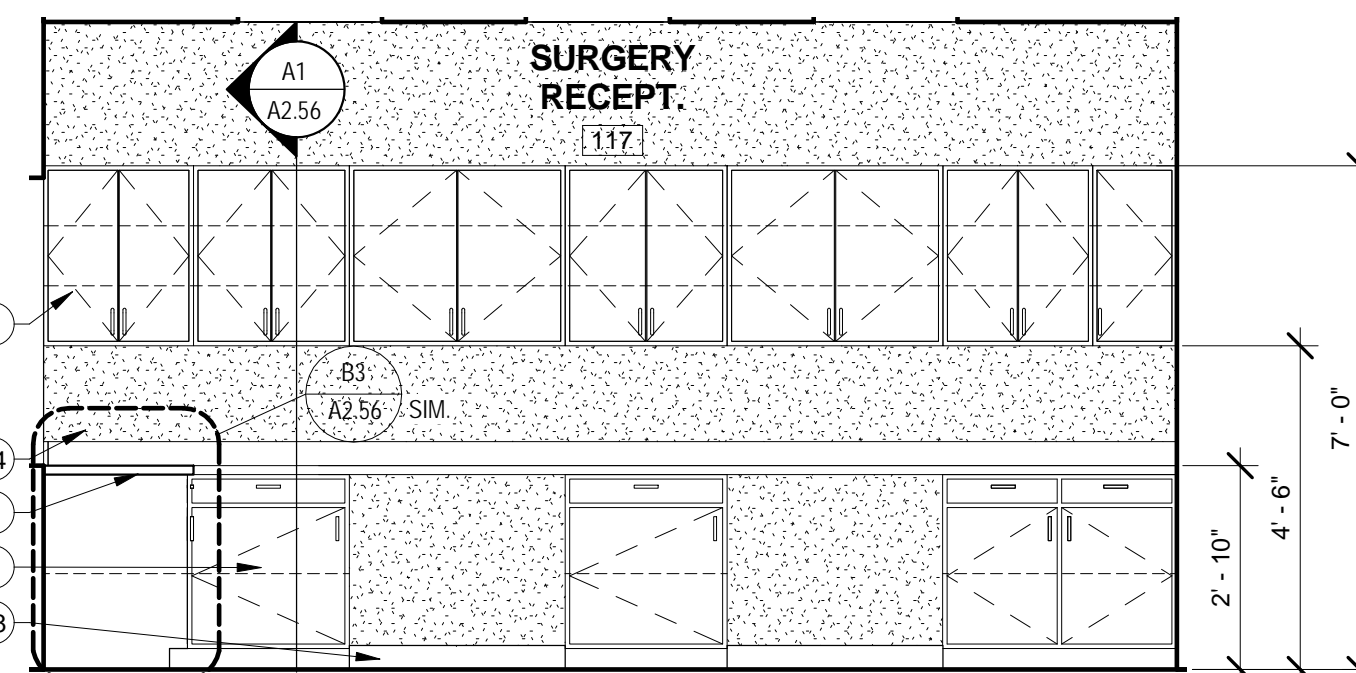
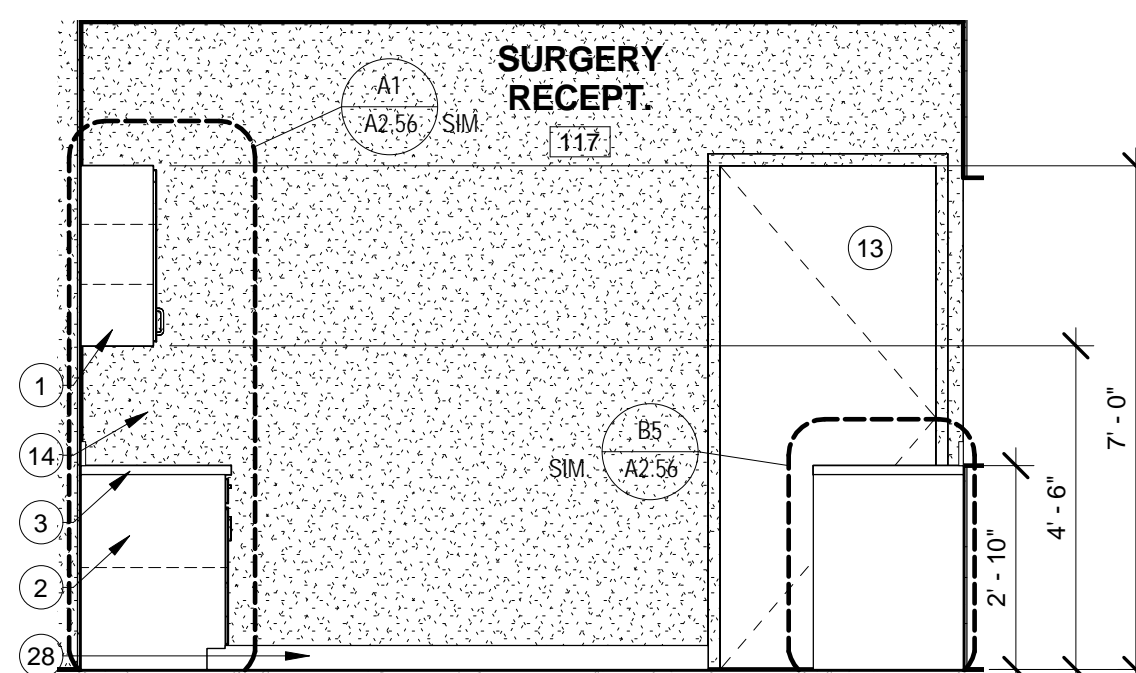
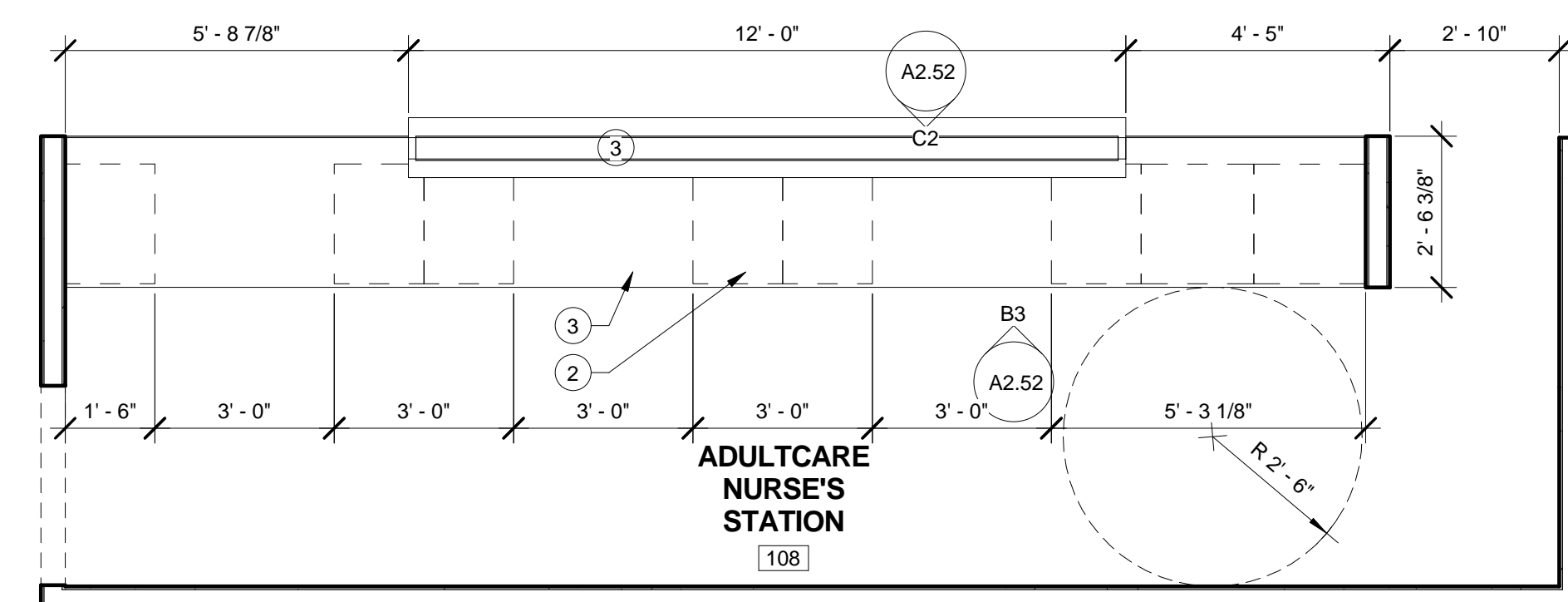
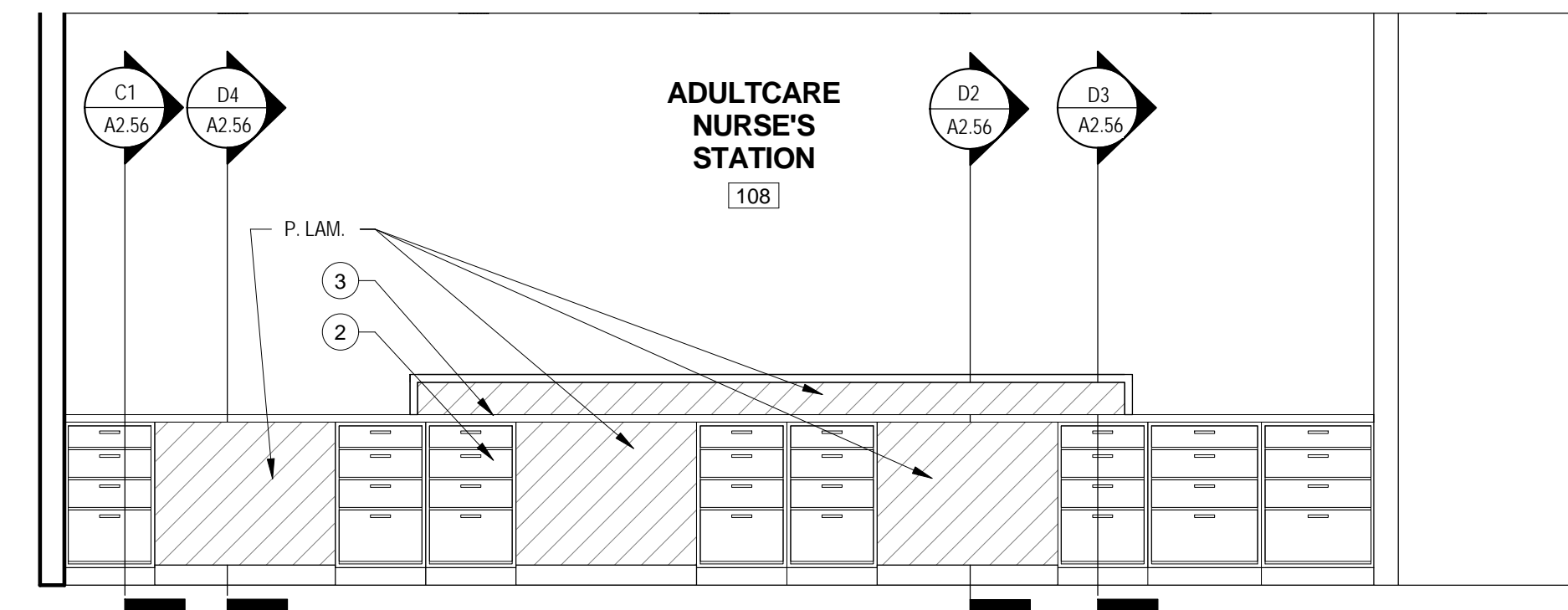
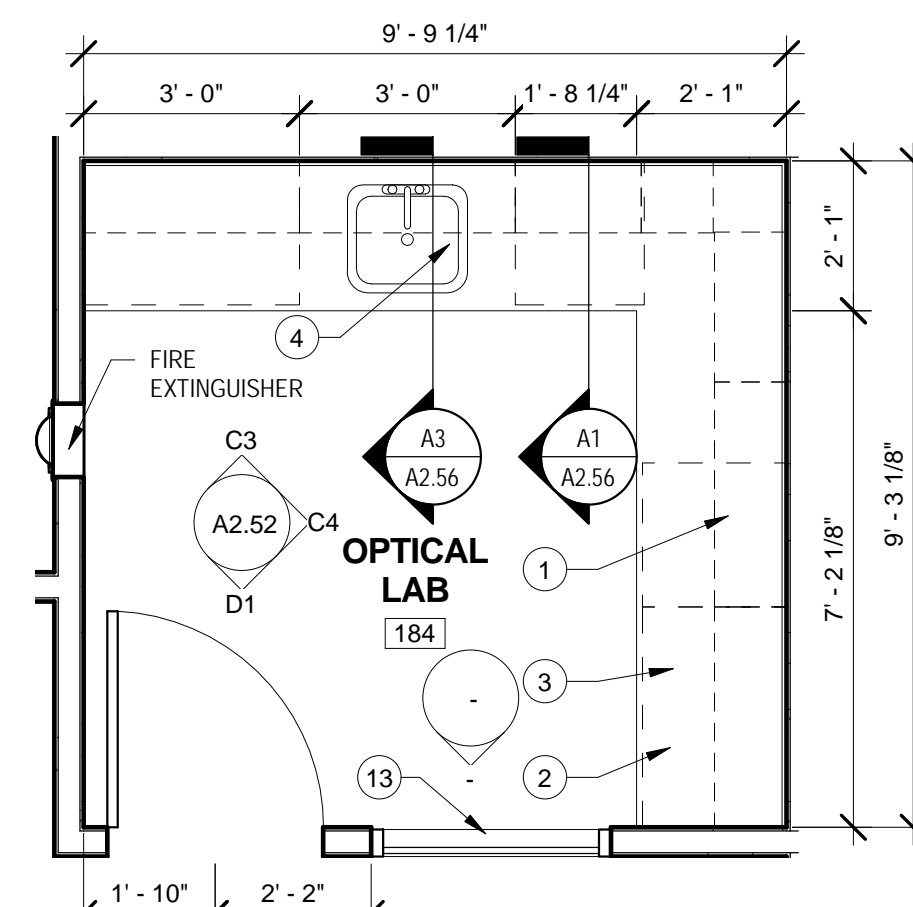
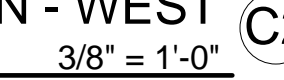
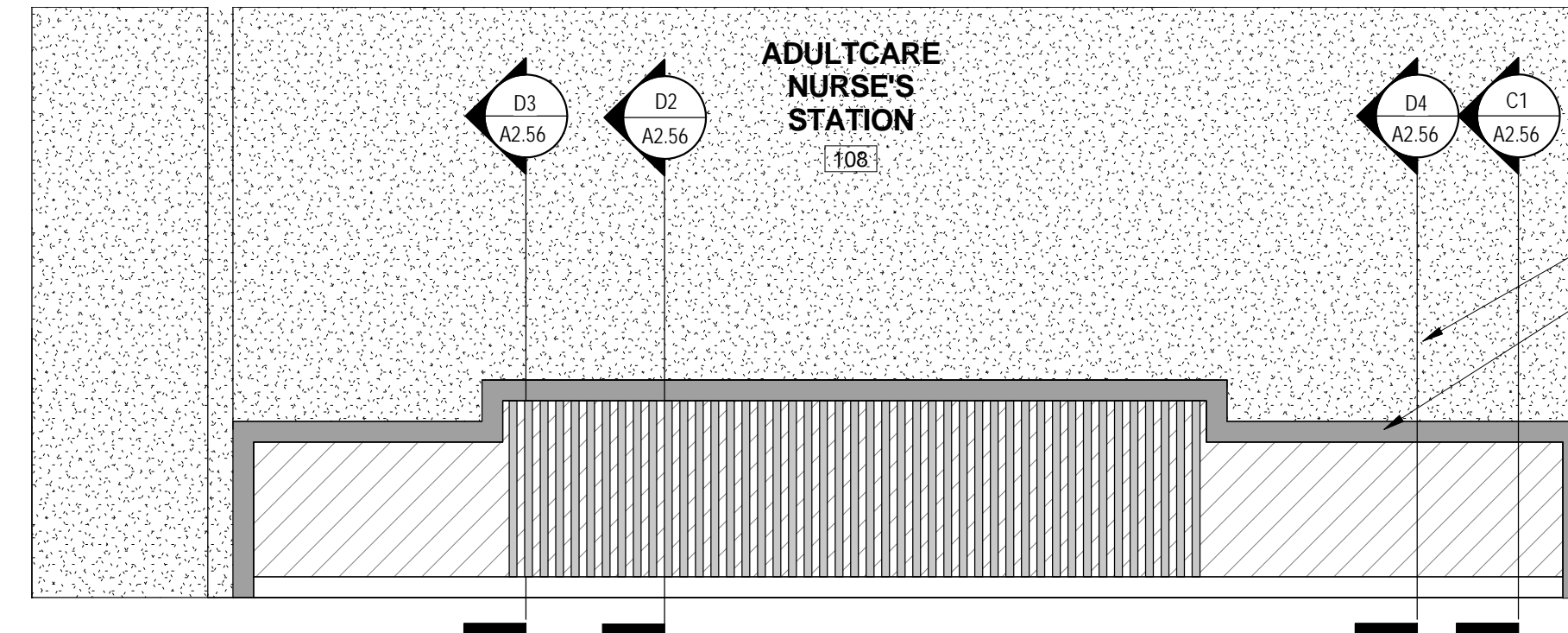
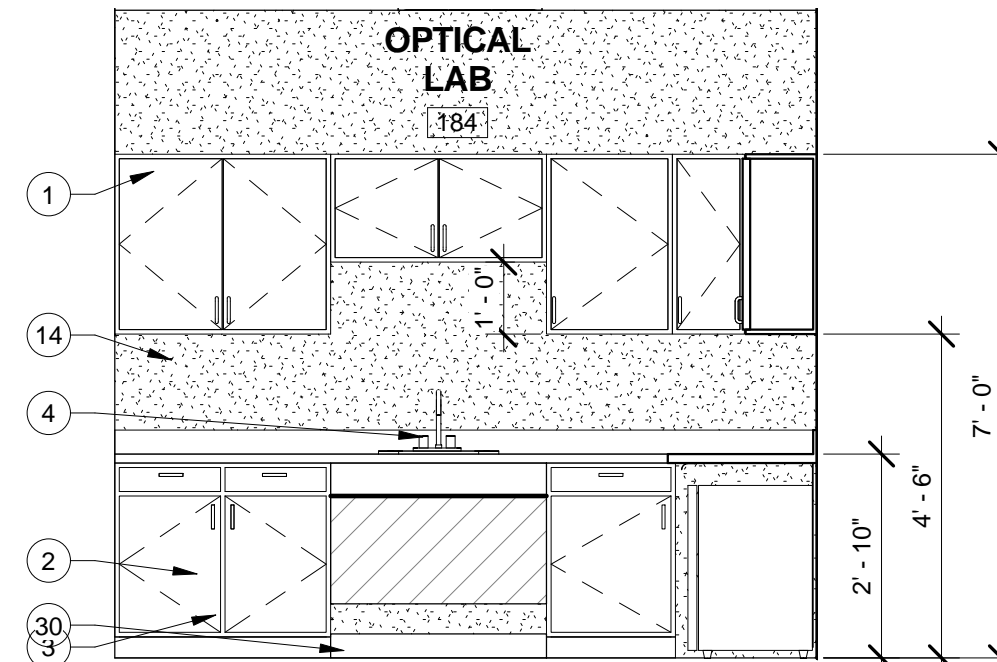
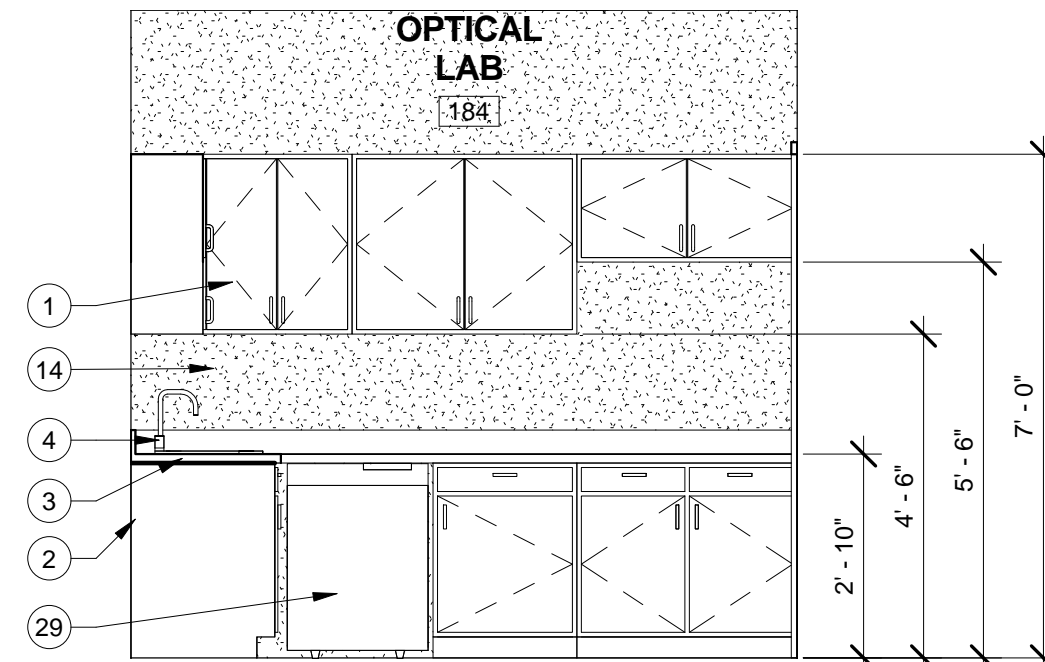
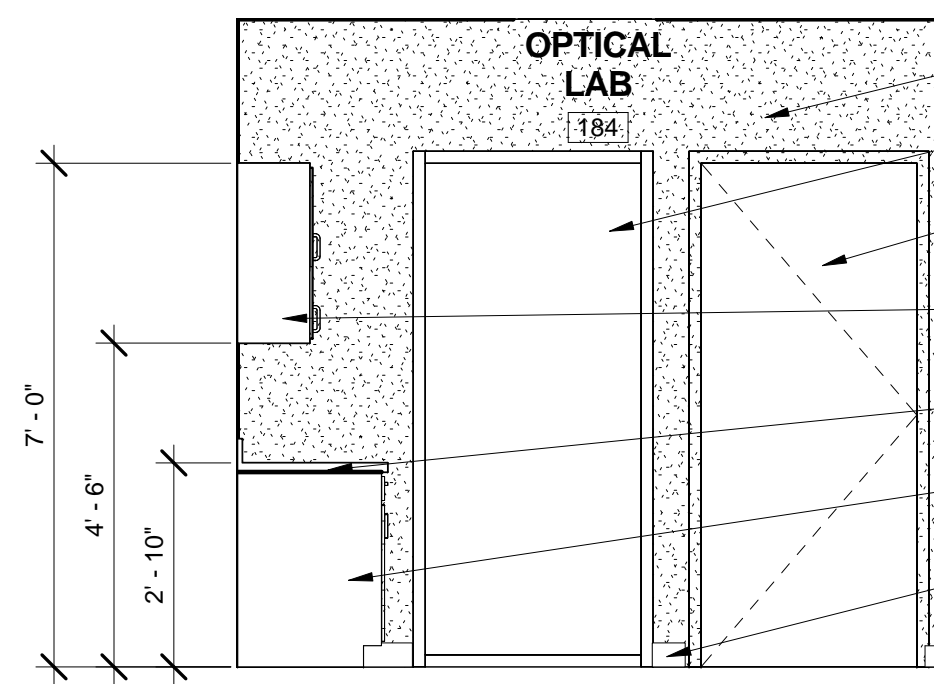
MEN & WOMEN RESTROOM PLAN A1
3/8" = 1'-0"

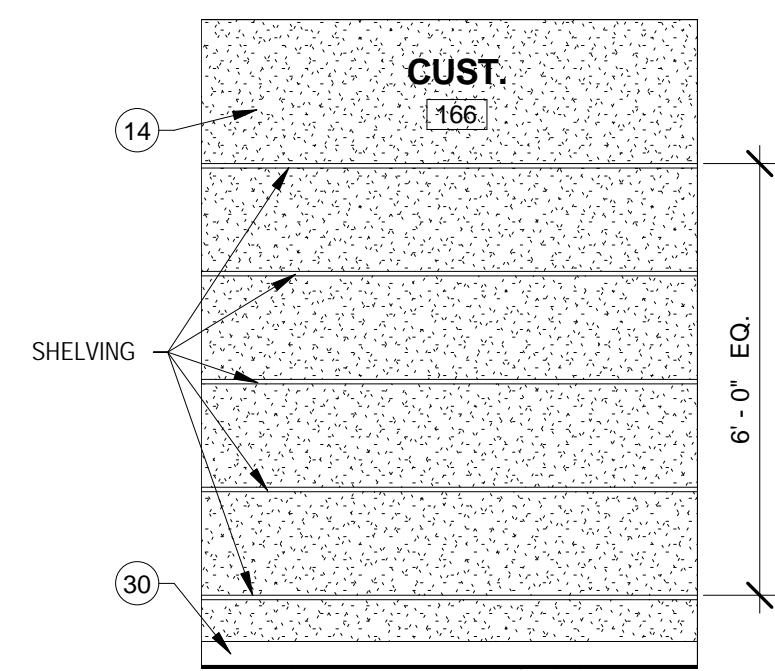
| KEYNOTE LEGEND 2 | |
|------------------|---|
| KEY | DESCRIPTION |
| 1 | UPPER CABINETS |
| 2 | LOWER CABINETS |
| 3 | QUARTZ COUNTERTOP |
| 4 | SINK, REF. M.E.P. DWG'S |
| 5 | TOILET (TYP.), REF. M.E.P. DWG'S |
| 6 | 36" GRAB BAR |
| 7 | 42" GRAB BAR |
| 8 | TOILET PAPER DISPENSER, OWNER PROVIDED CONTRACTOR INSTALLED |
| 9 | SOAP DISPENSER, OWNER PROVIDED CONTRACTOR INSTALLED |
| 10 | PAPER TOWEL/TRASH DISPENSER |
| 11 | DRINKING FOUNTAINS, REF M.E.P. DWG'S |
| 12 | CERAMIC TILE |
| 13 | DOOR & WINDOW AS SCHEDULE |
| 14 | GYP. BD. TAPED,FLOAT,TEXTURED & PAINTED |

| KEYNOTE LEGEND 2 | |
|------------------|--|
| KEY | DESCRIPTION |
| 15 | 12" x 24" PORCELAIN TILE-AXIOM SILVER FM94-POLISHED w/MAPEI 107 IRON GROUT |
| 16 | MIRROR, 24" X 36" STAINLESS STEEL FRAME |
| 17 | SOLID PLASTIC TOILET PARTITION |
| 18 | BABY CHANGING STATION, OWNER PROVIDED CONTRACTOR INSTALLED |
| 19 | 3" x 24" PORCELAIN TILE BULLNOSE-AXIOM SILVER FM94-POLISHED w/MAPEI 107 IRON GROUT |
| 20 | ADA URINAL, REF. M.E.P. DWG'S |
| 21 | ADA TOILET, REF. M.E.P. DWG'S |
| 22 | URINAL DIVIDING PARTITION |
| 23 | NURSE'S STATION QUARTZ COUNTERTOP |
| 24 | CUSTOM SUSPENDED CEILING |
| 25 | COVE LIGHTING, SEE M.E.P. DWG'S |
| 26 | CAN LIGHTS, SEE M.E.P. DWG'S |
| 28 | WALL BASE AS SCHEDULE |
| 29 | FURNITURE & APPIANCES, OWNER PROVIDED |
| 30 | WALL BASE AS SCHEDULE |
| 31 | TALL CABINETS |
| 32 | WALL HUNG SINK, w/ PIPE JACKET, REF. M.E.P. DWG'S |

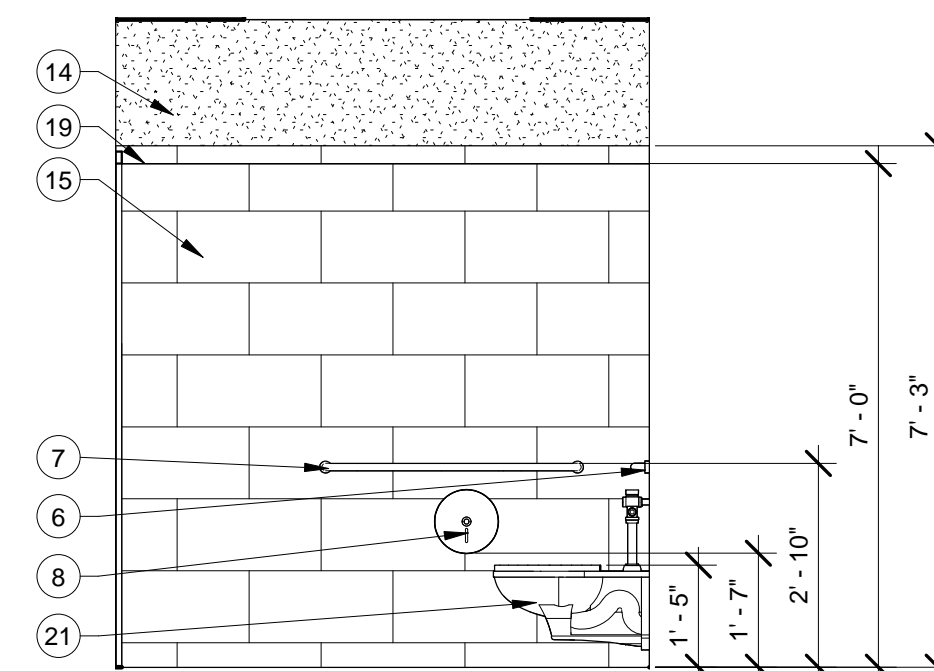


| KEYNOTE LEGEND | |
|----------------|--|
| KEY | DESCRIPTION |
| | |
| 1 | UPPER CABIENTS |
| 2 | LOWER CABINETS |
| 3 | QUARTZ COUNTERTOP |
| 4 | SINK, REF. M.E.P. DWG'S |
| 5 | TOILET (TYP.), REF. M.E.P. DWG'S |
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| 11 | DRINKING FOUNTAINS, REF M.E.P. DWG'S |
| 12 | CERAMIC TILE |
| 13 | DOOR & WINDOW AS SCHEDULE |
| 14 | GYP. BD. TAPED,FLOAT,TEXTURED & PAINTED |
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| 22 | URINAL DIVIDING PARTITION |
| 23 | NURSE'S STATION QUARTZ COUNTERTOP |
| 24 | CUSTOM SUSPENDED CEILING |
| 25 | COVE LIGHING, SEE M.E.P. DWG'S |
| 26 | CAN LIGHTS, SEE M.E.P. DWG'S |
| 28 | WALL BASE AS SCHEDULE |
| 29 | FURNITURE & APPIANCES, OWNER PROVIDED |
| 30 | WALL BASE AS SCHEDULE |
| 31 | TALL CABINETS |
| 32 | WALL HUNG SINK, w/ PIPE JACKET, REF. M.E.P. DWG'S |





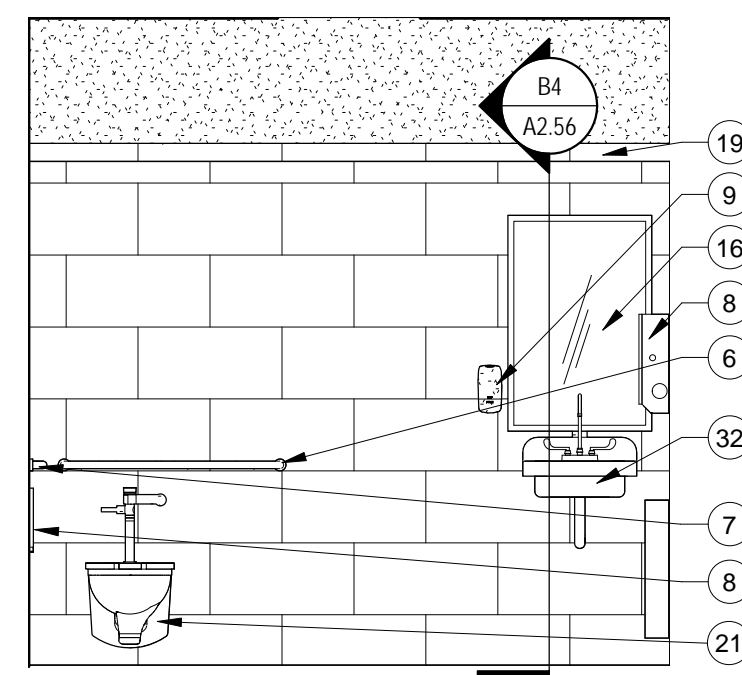
CUSTODIAN
INTERIOR ELEVATION - EAST D3
3/8" = 1'-0"



PATIENT RESTROOM
INTERIOR ELEVATION - WEST

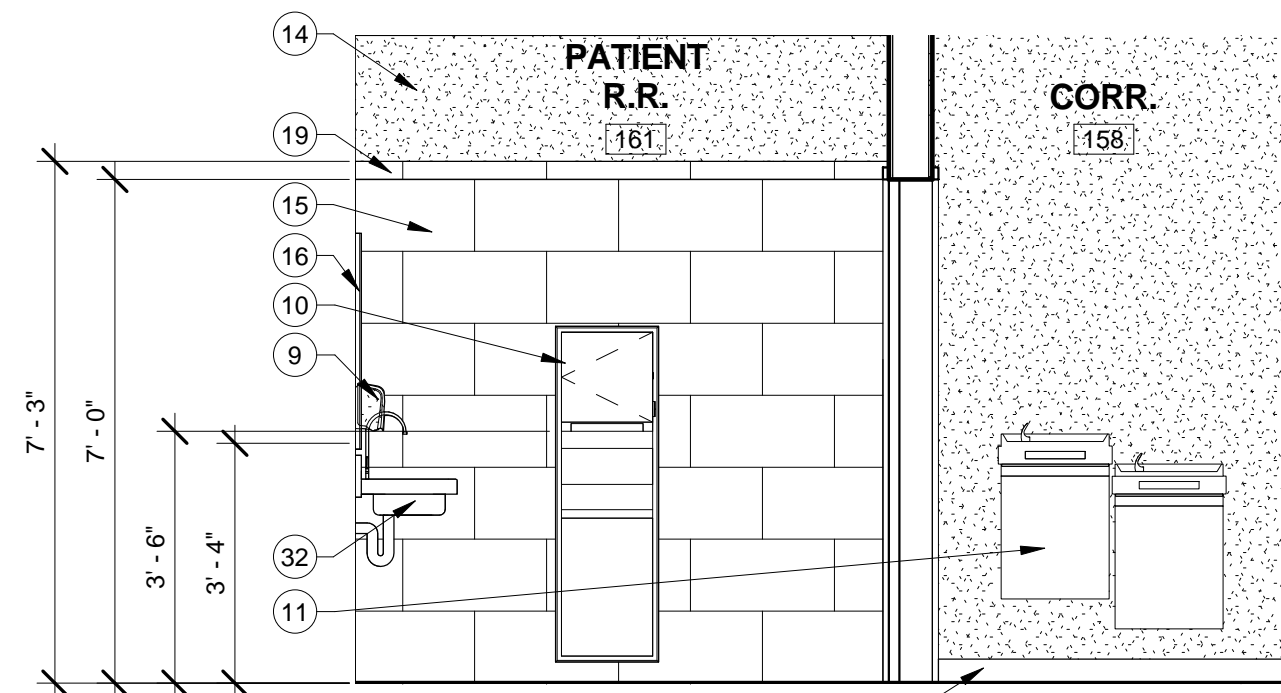
| KEYNOTE LEGEND 2 | |
|------------------|--|
| KEY | DESCRIPTION |
| | |
| 1 | UPPER CABIENTS |
| 2 | LOWER CABINETTS |
| 3 | QUARTZ COUNTERTOP |
| 4 | SINK, REF. M.E.P. DWG'S |
| 5 | TOILET (TYP.), REF. M.E.P. DWG'S |
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| 7 | 42" GRAB BAR |
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| 10 | PAPER TOWEL/TRASH DISPENSER |
| 11 | DRINKING FOUNTAINS, REF M.E.P. DWG'S |
| 12 | CERAMIC TILE |
| 13 | DOOR & WINDOW AS SCHEDULE |
| 14 | GYP. BD. TAPED,FLOAT,TEXTURED & PAINTED |

| KEYNOTE LEGEND 2 | |
|------------------|--|
| KEY | DESCRIPTION |
| 15 | 12" x 24" PORCELAIN TILE-AXIOM SILVER FM94-POLISHED w/MAPEI 107 IRON GROUT |
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| 17 | SOLID PLASTIC TOILET PARTITION |
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| 25 | COVE LIGHTING, SEE M.E.P. DWG'S |
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| 29 | FURNITURE & APPLIANCES, OWNER PROVIDED |
| 30 | WALL BASE AS SCHEDULE |
| 31 | TALL CABINETS |
| 32 | WALL HUNG SINK, w/ PIPE JACKET, REF. M.E.P. DWG'S |



PATIENT RESTROOM
INTERIOR ELEVATION - NORTH

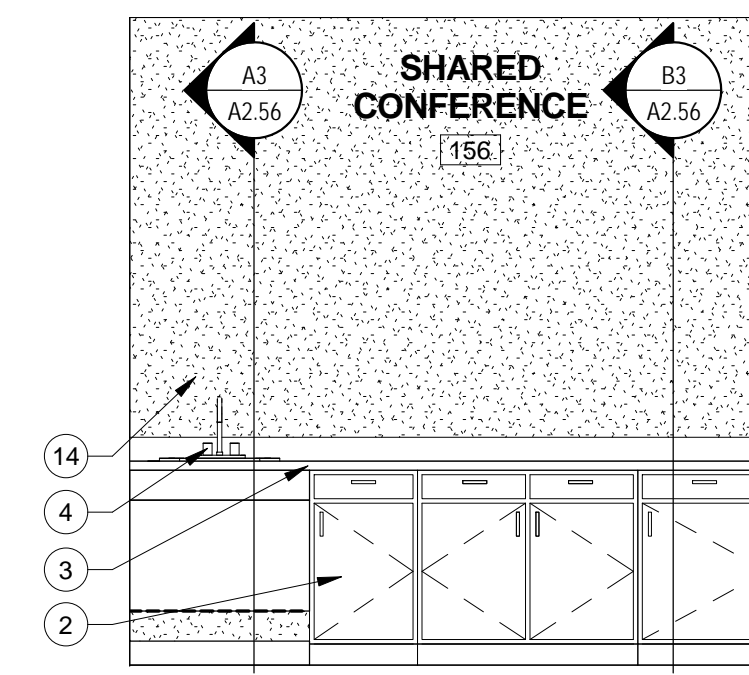
3/8" = 1'-0" C4



PATIENT RESTROOM & DRINKING
FOUNTAIN INTERIOR ELEVATION - EAST

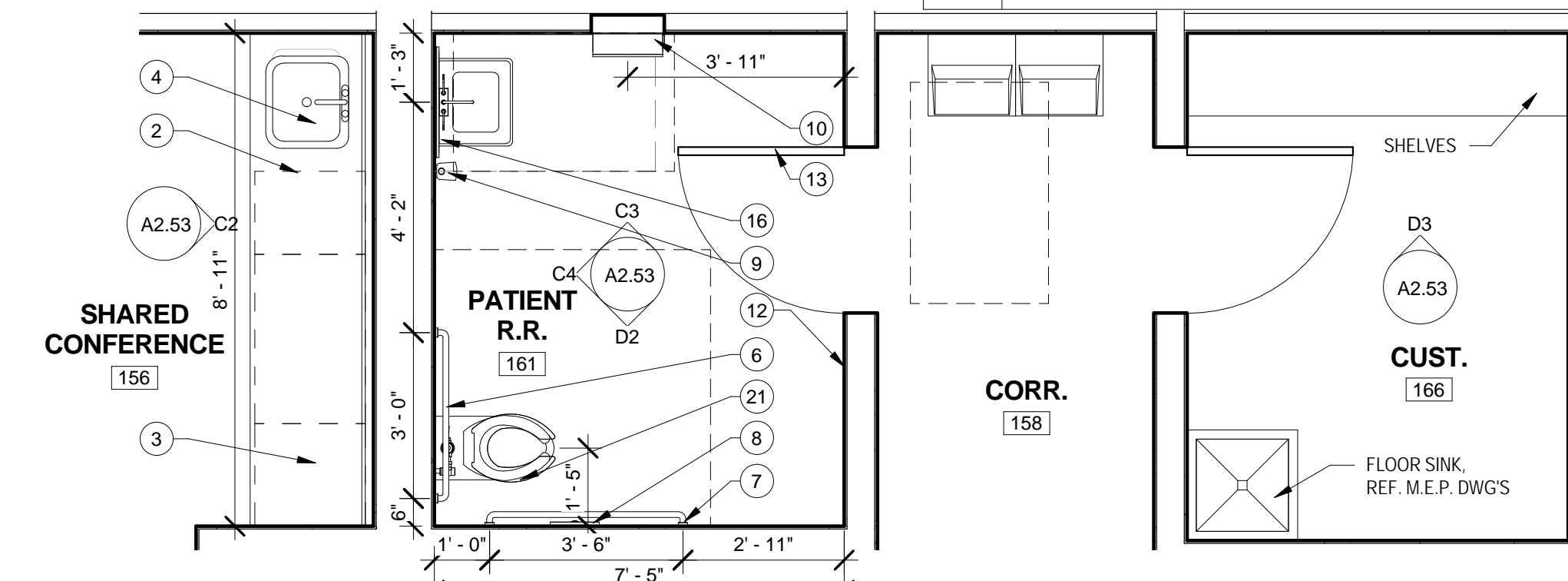
3/8" = 1'-0"

C3



SHARED CONFERENCE
INTERIOR ELEVATION

3/8" = 1'-0"

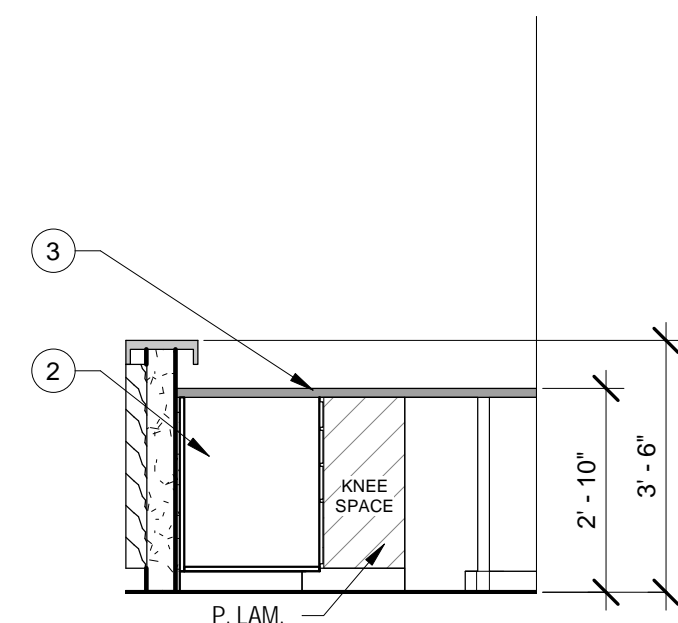


SHARED CONFERENCE/PATIENT
 RESTROOM/DRINKING FOUNTAIN
 FLOOR PLAN

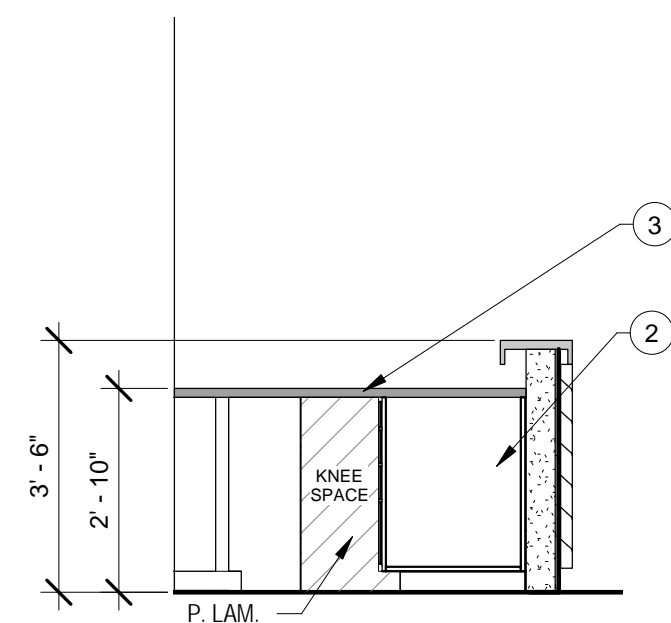
3/8" = 1'-0"

C1

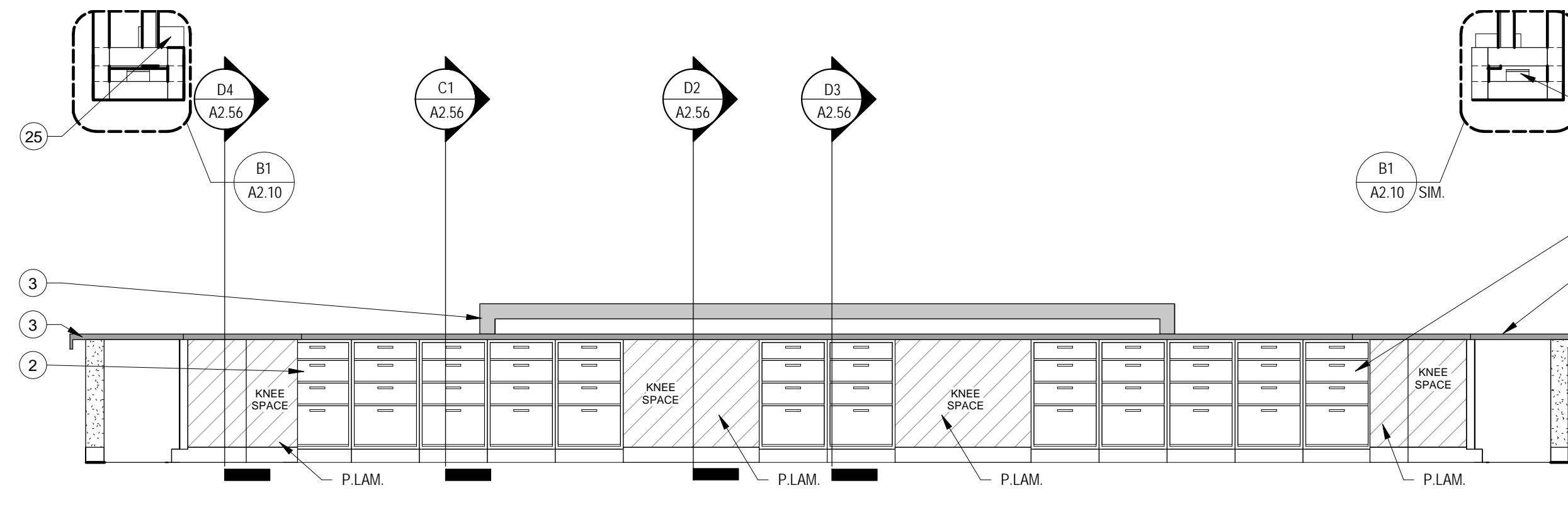
(North Arrow)



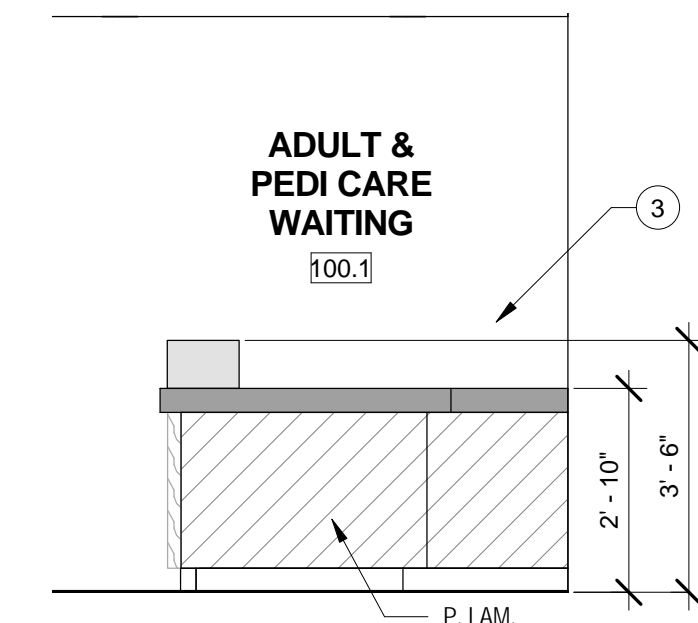
PEDI RECEPTIONIST INTERIOR
ELEVATION COUNTERTOP - S. REAR B5
3/8" = 1'-0"



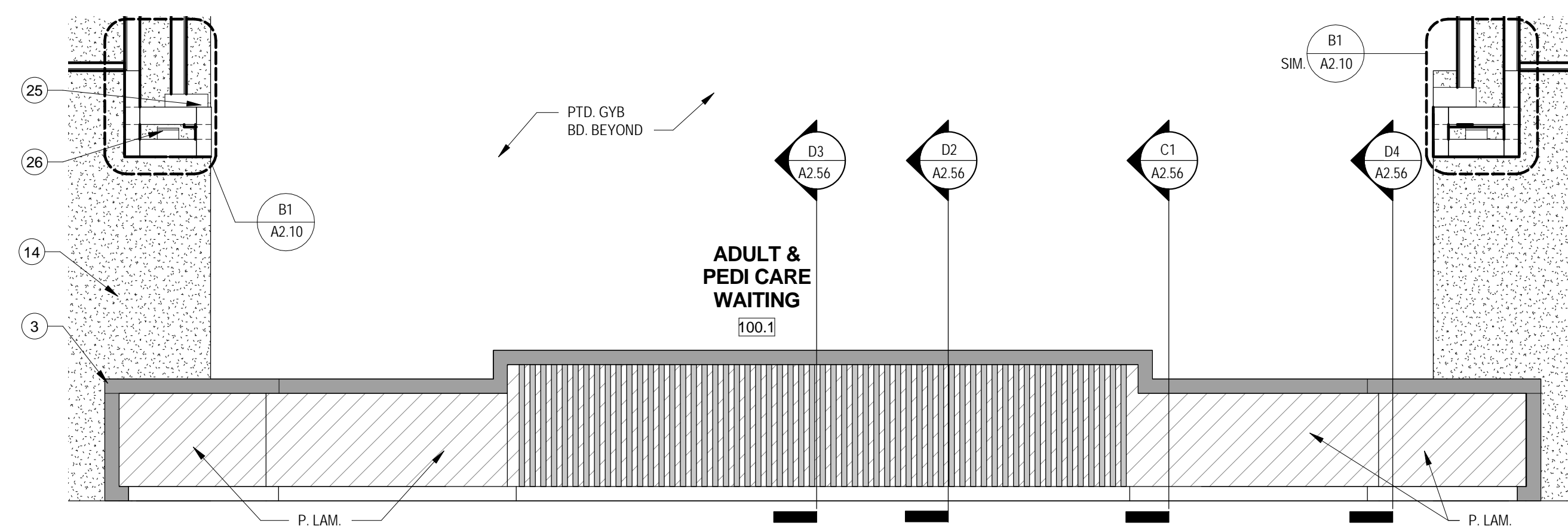
PEDI RECEPTIONIST INTERIOR
ELEVATION COUNTERTOP - N. REAR



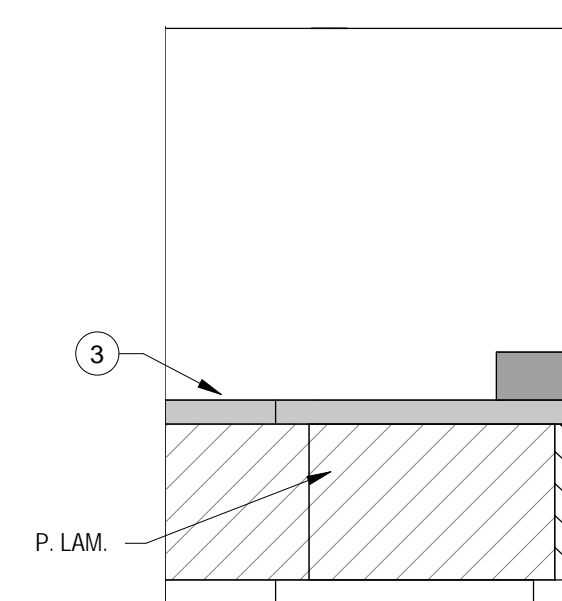
PEDI RECEPTIONIST INTERIOR
ELEVATION COUNTERTOP - E. REAR



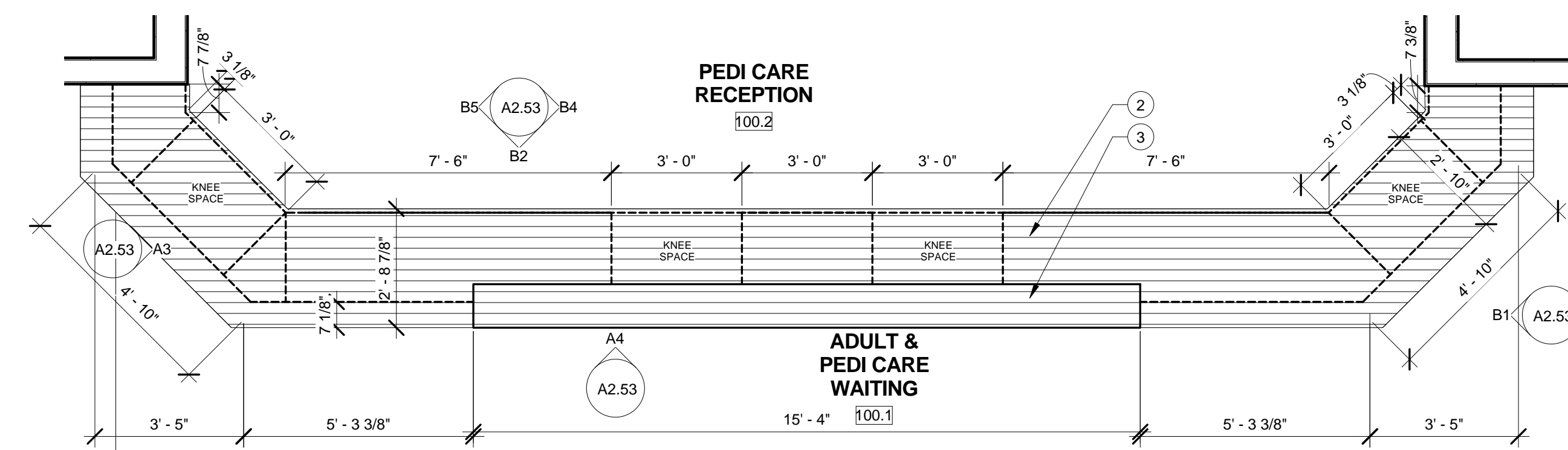
PEDI RECEPTIONIST
INTERIOR ELEVATION - S. FRONT



ADULT & PEDI RECEPTIONIST
COUNTERTOP INT. ELEVATION - W. FRONT A4
3/8" = 1'-0"



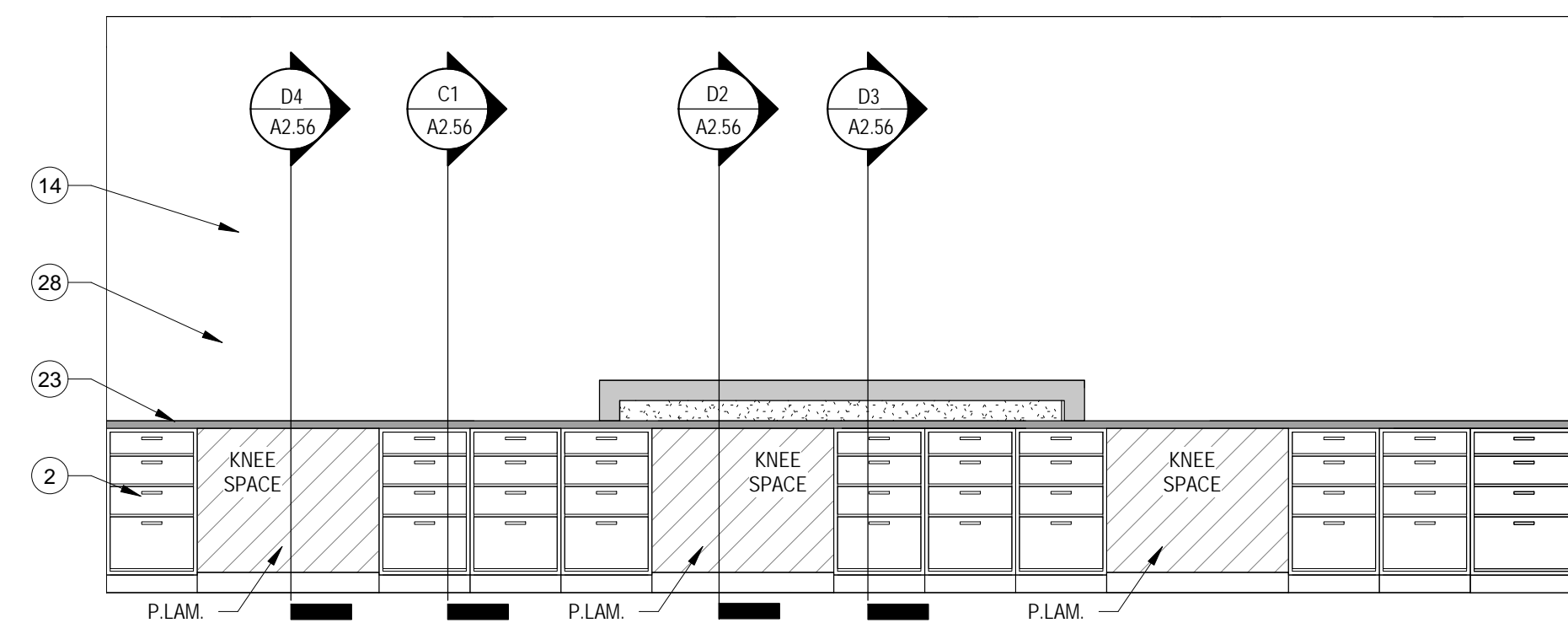
ADULT & PEDI RECEP. COUNTERTOP
INT. ELEVATION - N. FRONT



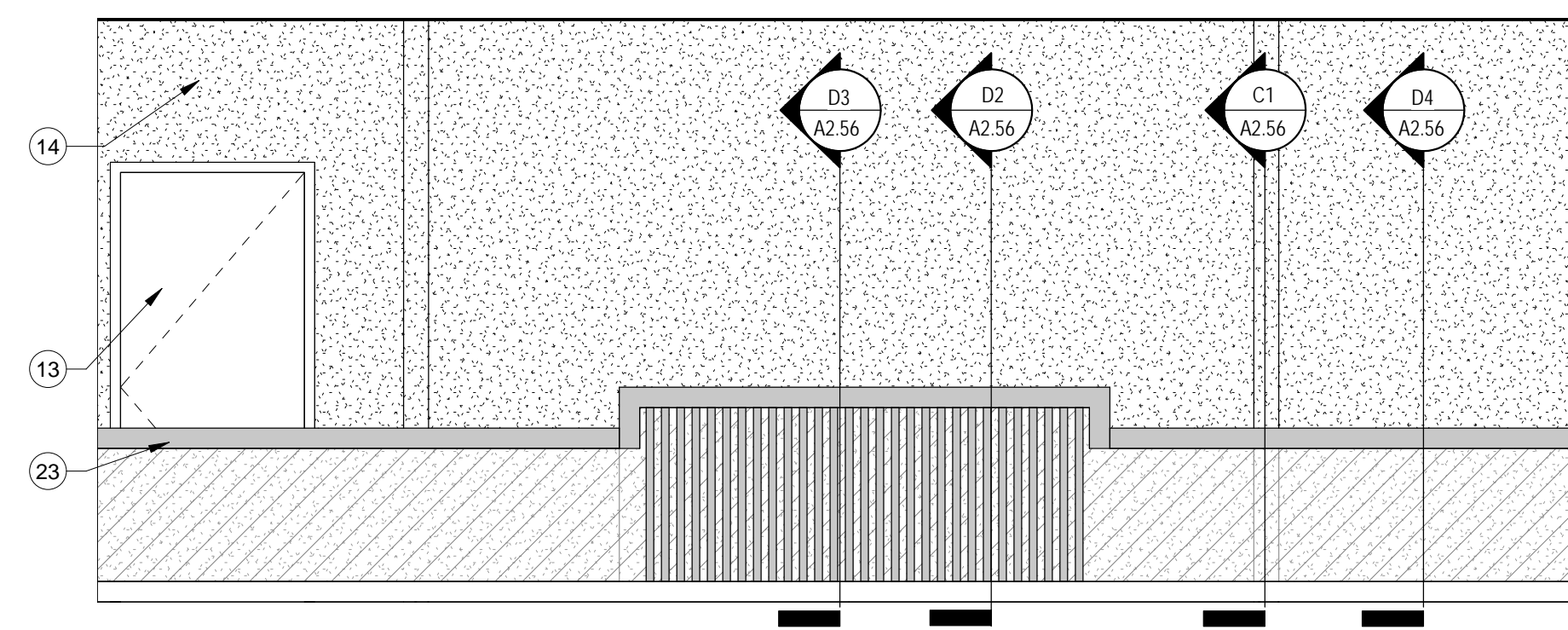
ADULT & PEDI CARE RECEPTION PLAN (A1) 

| KEYNOTE LEGEND 2 | |
|------------------|--|
| KEY | DESCRIPTION |
| 1 | UPPER CABINETS |
| 2 | LOWER CABINETS |
| 3 | QUARTZ COUNTERTOP |
| 4 | SINK, REF. M.E.P. DWG'S |
| 5 | TOILET (TYP.), REF. M.E.P. DWG'S |
| 6 | 36" GRAB BAR |
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| 10 | PAPER TOWEL/TRASH DISPENSER |
| 11 | DRINKING FOUNTAINS, REF M.E.P. DWG'S |
| 12 | CERAMIC TILE |
| 13 | DOOR & WINDOW AS SCHEDULE |
| 14 | GYP. BD. TAPED,FLOAT,TEXTURED & PAINTED |

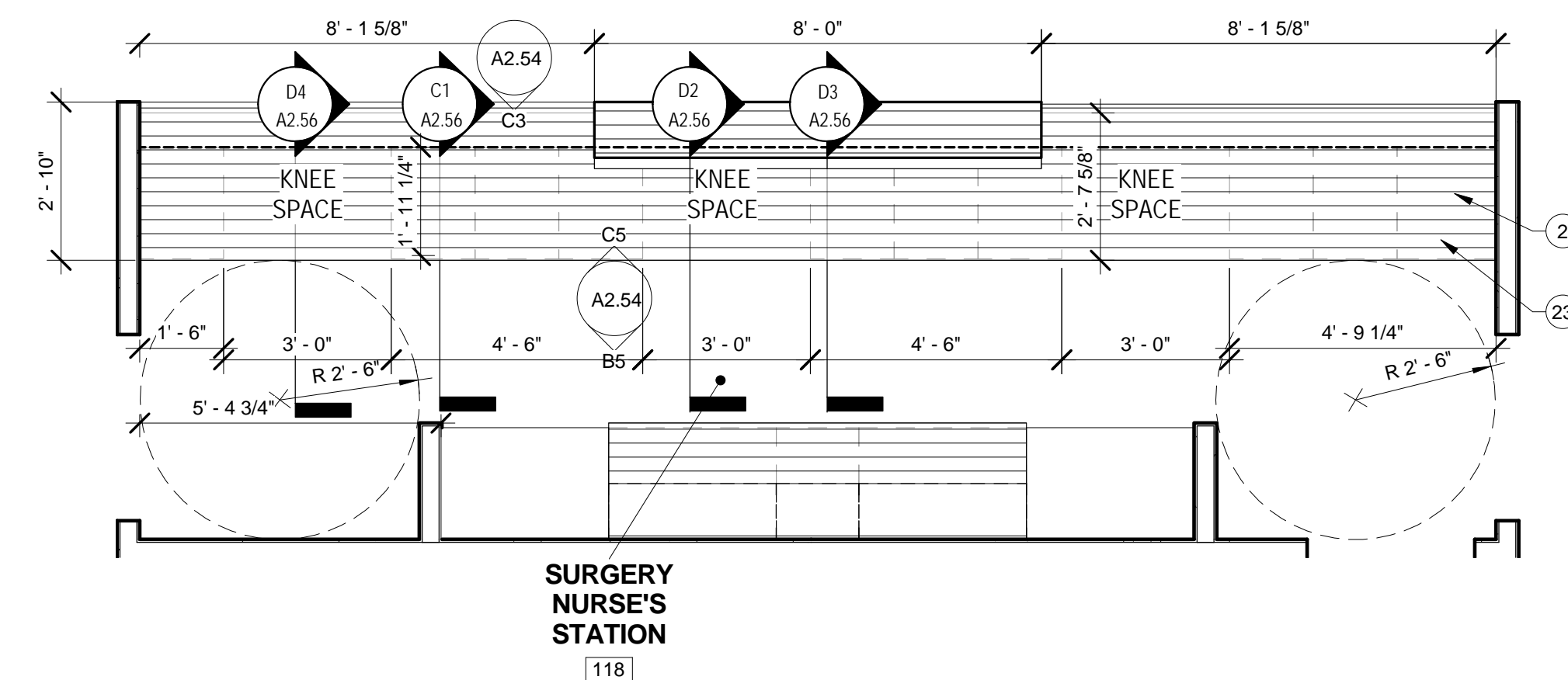
| KEYNOTE LEGEND 2 | |
|------------------|--|
| KEY | DESCRIPTION |
| 15 | 12" x 24" PORCELAIN TILE-AXIOM SILVER FM94-POLISHED w/MAPEI 107 IRON GROUT |
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| 17 | SOLID PLASTIC TOILET PARTITION |
| 18 | BABY CHANGING STATION, OWNER PROVIDED CONTRACTOR INSTALLED |
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| 25 | COVE LIGHTING, SEE M.E.P. DWG'S |
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| 28 | WALL BASE AS SCHEDULE |
| 29 | FURNITURE & APPLIANCES, OWNER PROVIDED |
| 30 | WALL BASE AS SCHEDULE |
| 31 | TALL CABINETS |
| 32 | WALL HUNG SINK, w/ PIPE JACKET, REF. M.E.P. DWG'S |



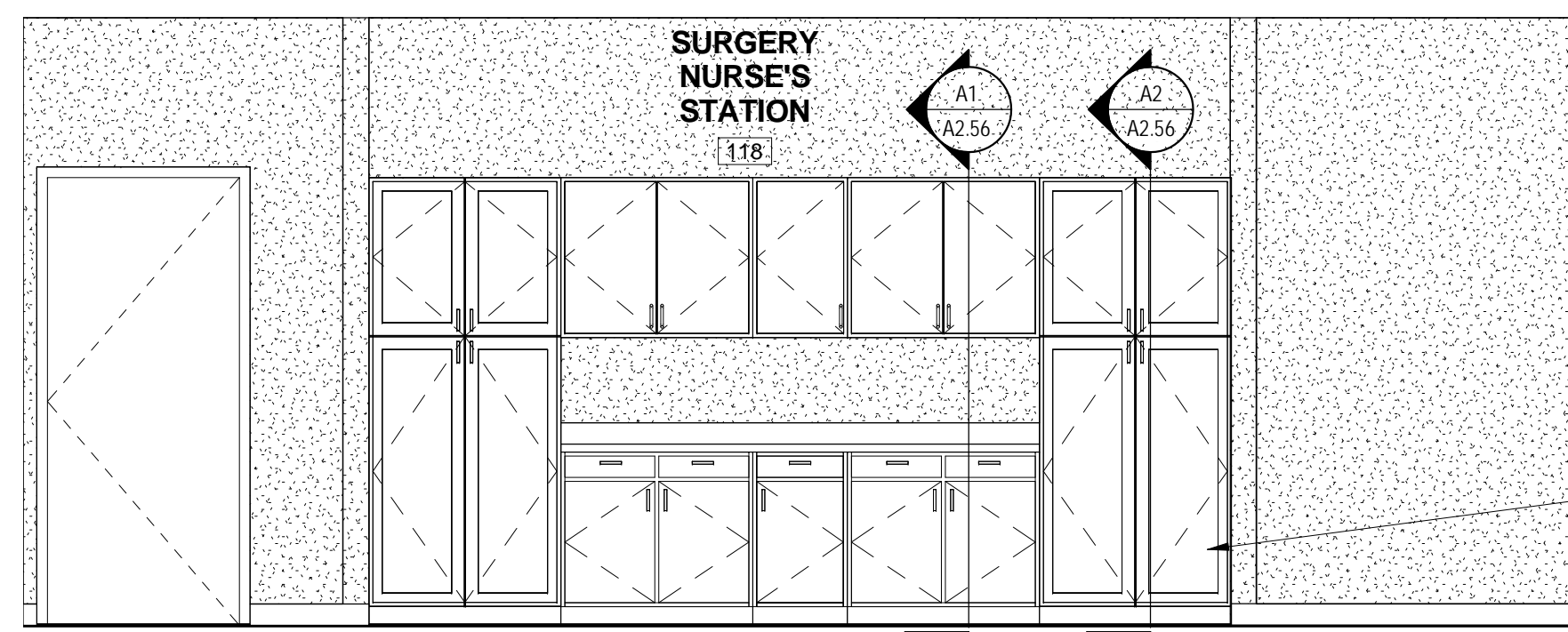
SURGERY NURSE'S STATION
INTERIOR ELEVATION - W. REAR



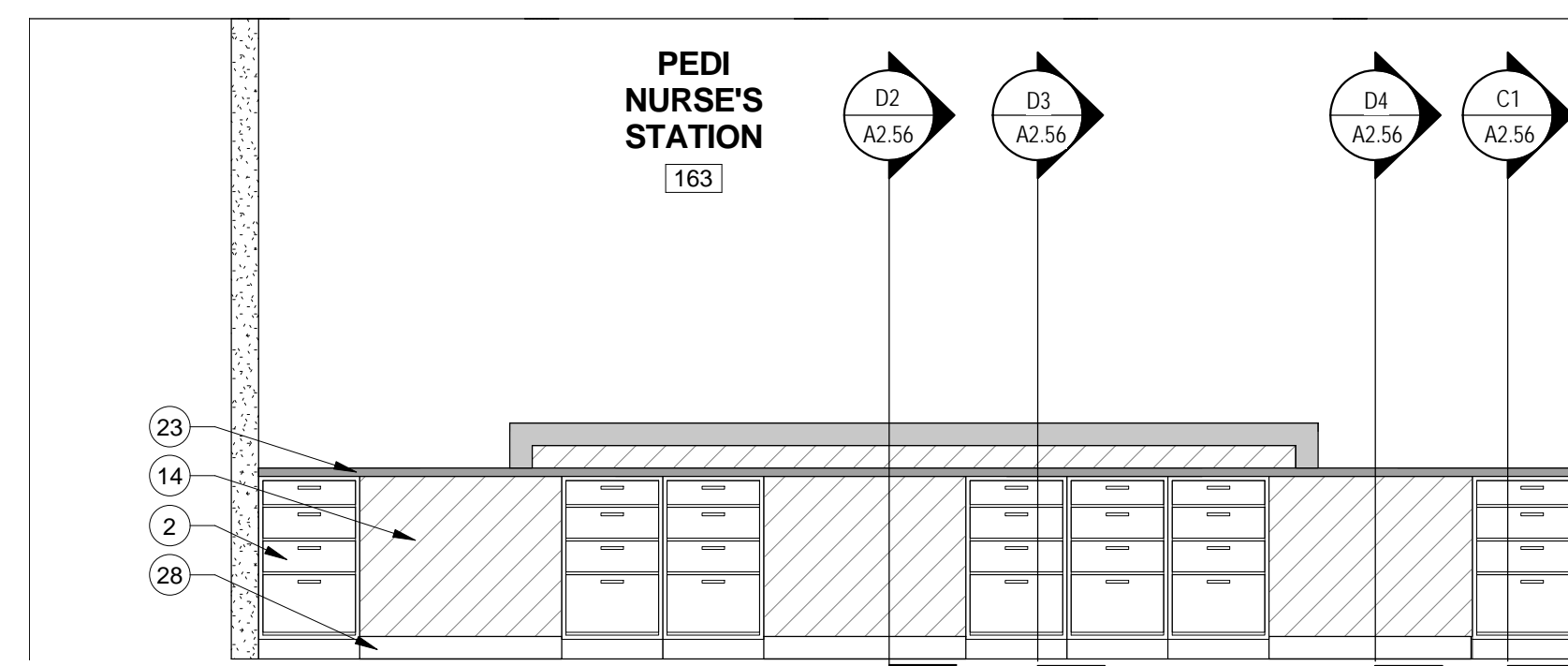
SURGERY NURSE'S STATION
INTERIOR ELEVATION - E. FRONT



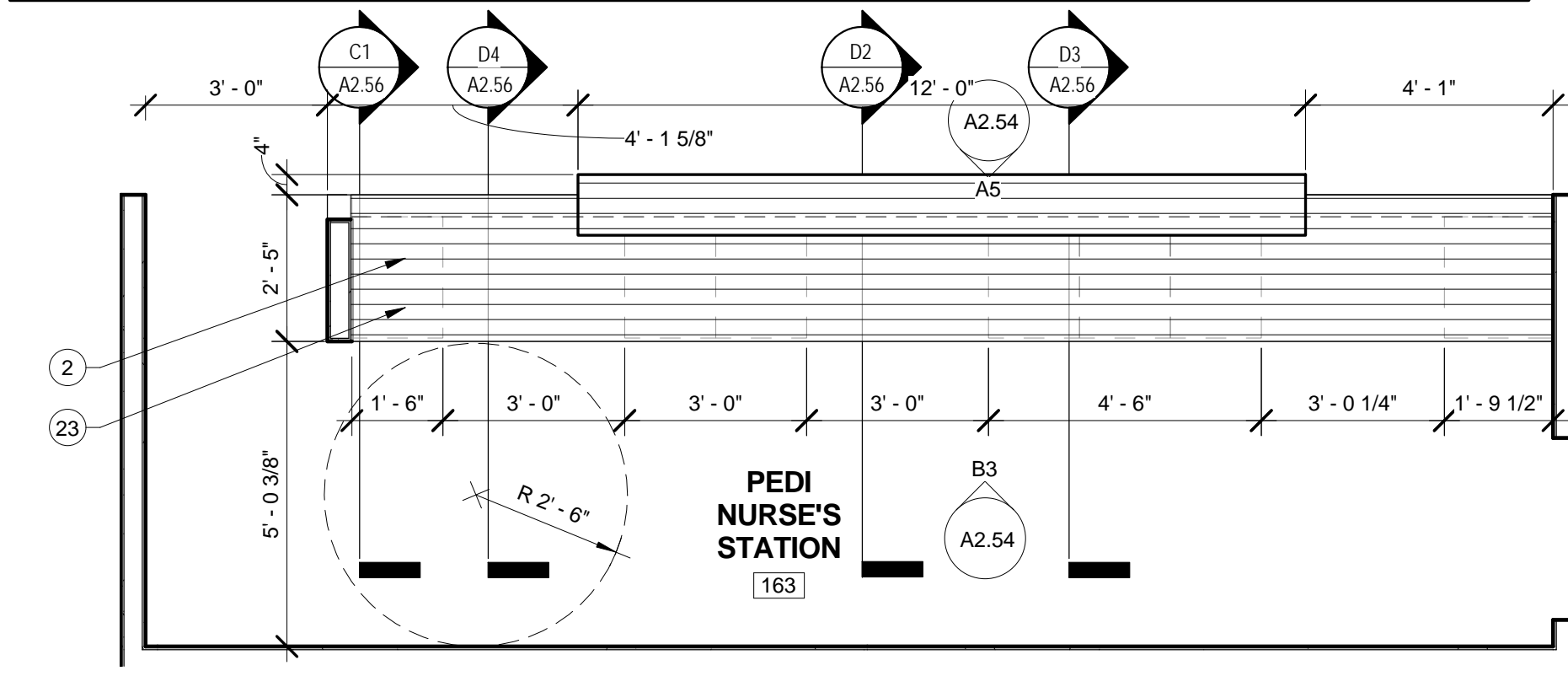
SURGERY NURSE'S STATION PLAN C1 $\frac{3}{8}" = 1'-0"$ 



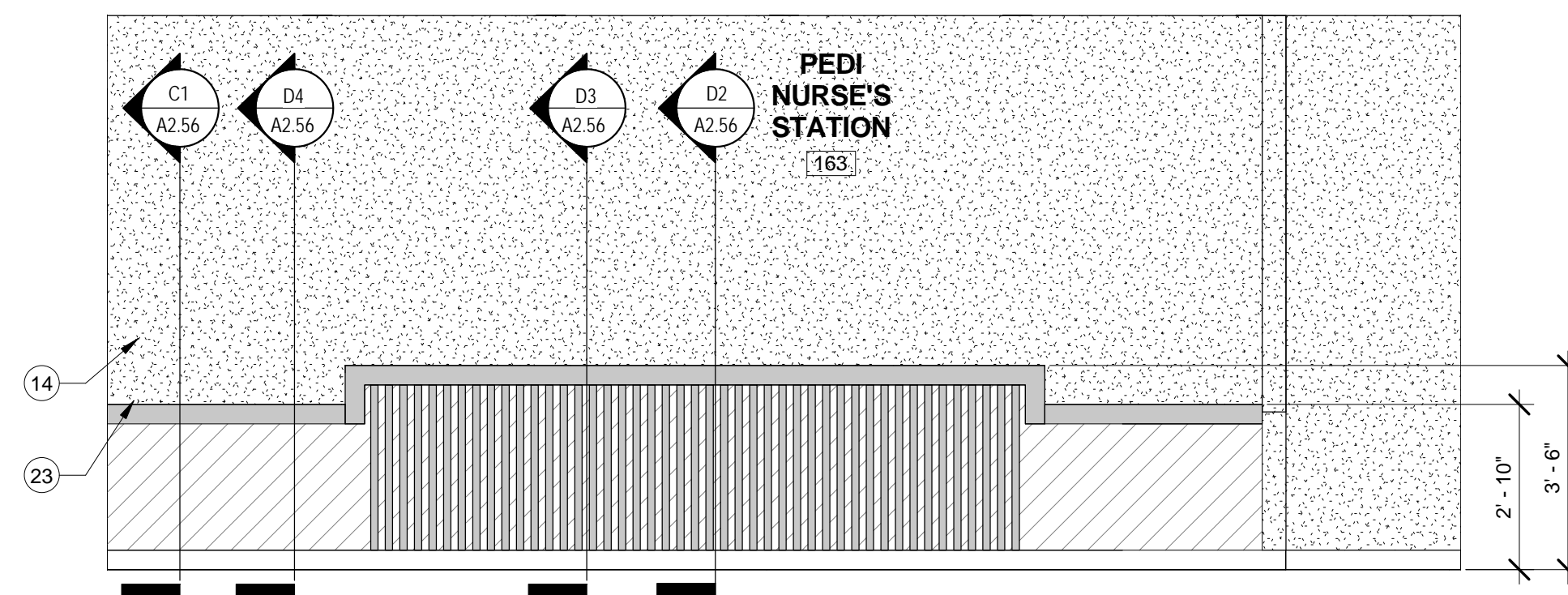
PEDICARE NURSE'S STATION
INTERIOR ELEVATION - W. WALL B5
3/8" = 1'-0"



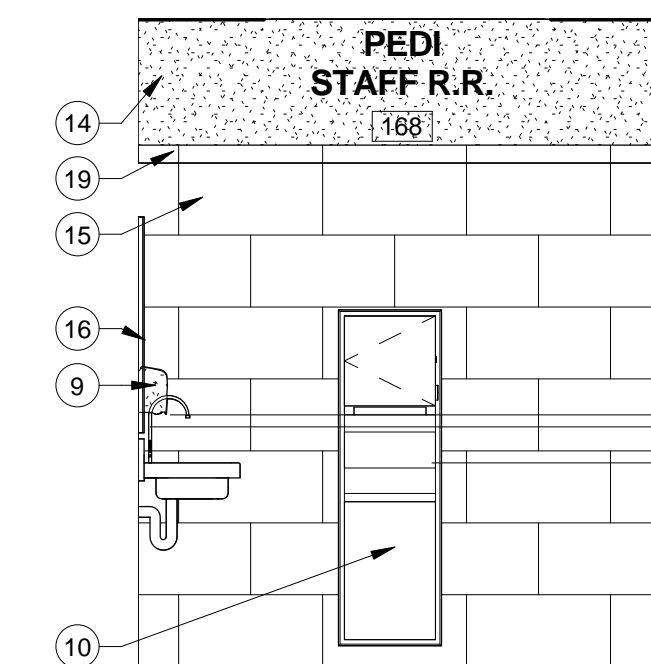
PEDI NURSE'S STATION
INTERIOR ELEVATION - W. REAR (B3)
3/8" = 1'-0"



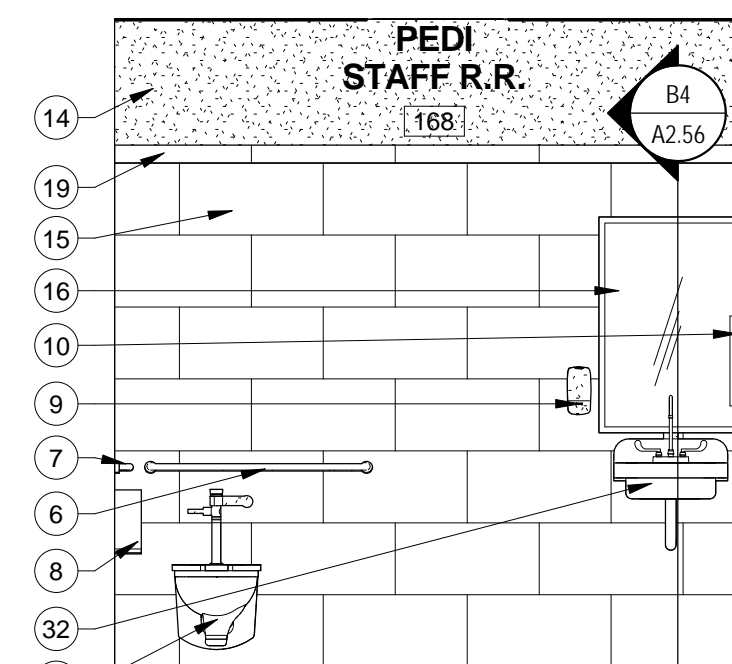
PEDICARE NURSE'S STATION PLAN $\frac{3}{8}" = 1'-0"$ B1 



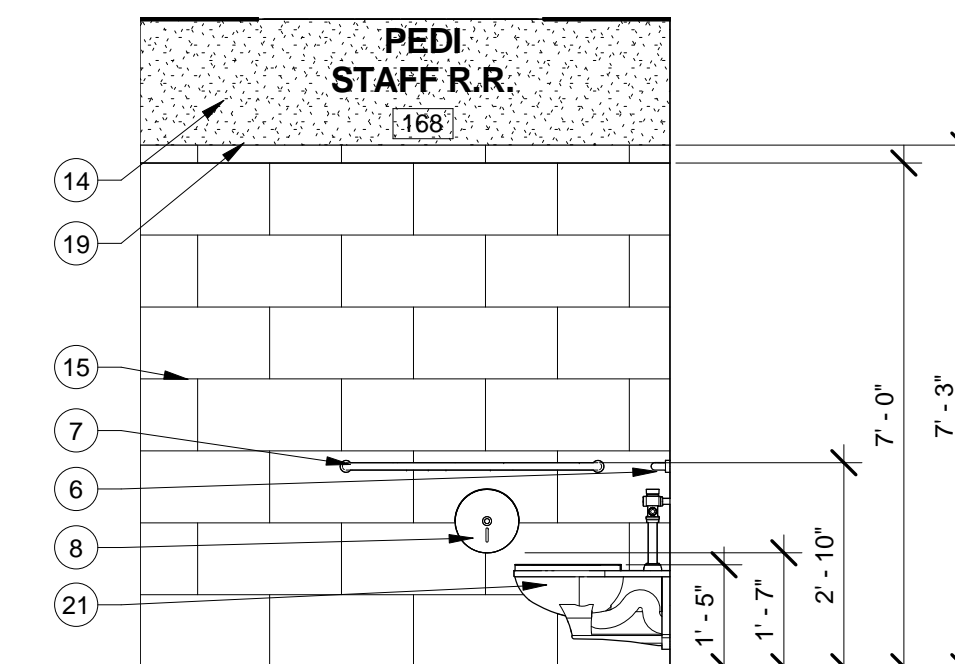
PEDI NURSE'S STATION
INTERIOR ELEVATION - E. FRONT A5
3/8" = 1'-0"



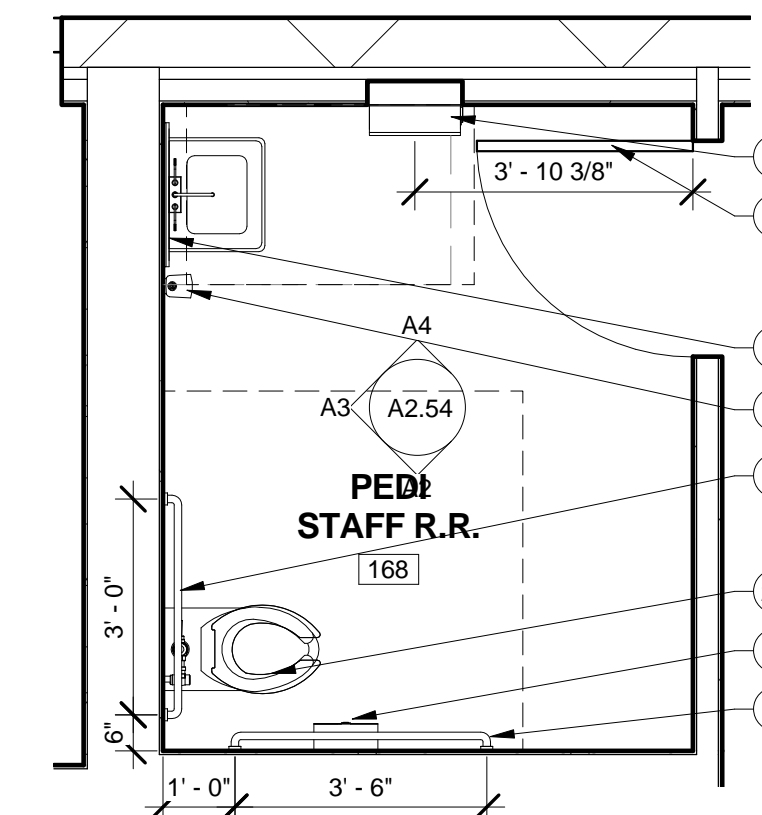
PEDICARE STAFF RESTROOM - EAST A4
3/8" = 1'-0"



PEDICARE STAFF RESTROOM - NORTH A3



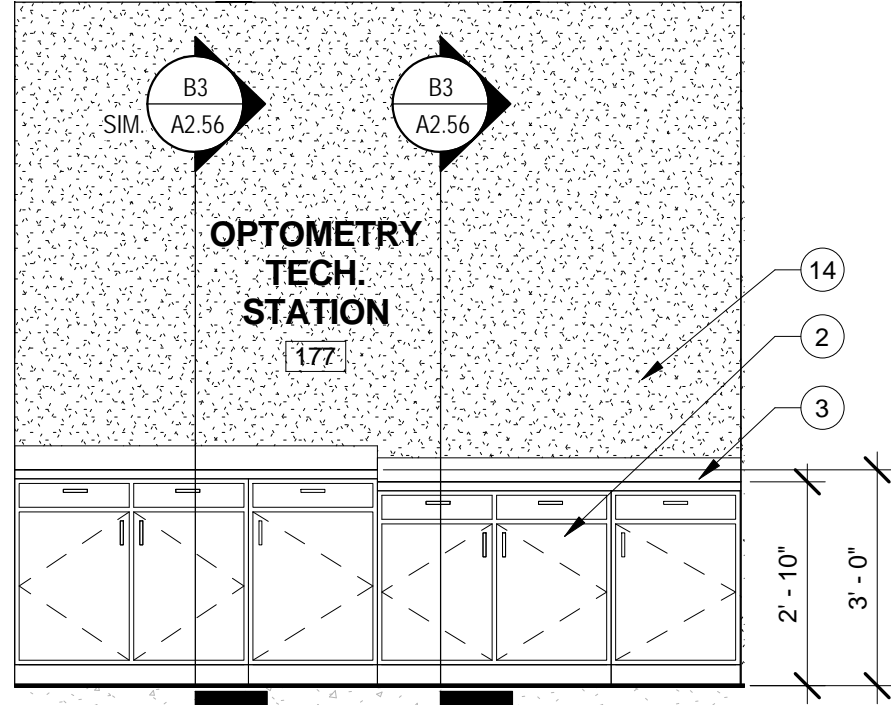
PEDICARE STAFF RESTROOM
INTERIOR ELEVATION - WEST A2



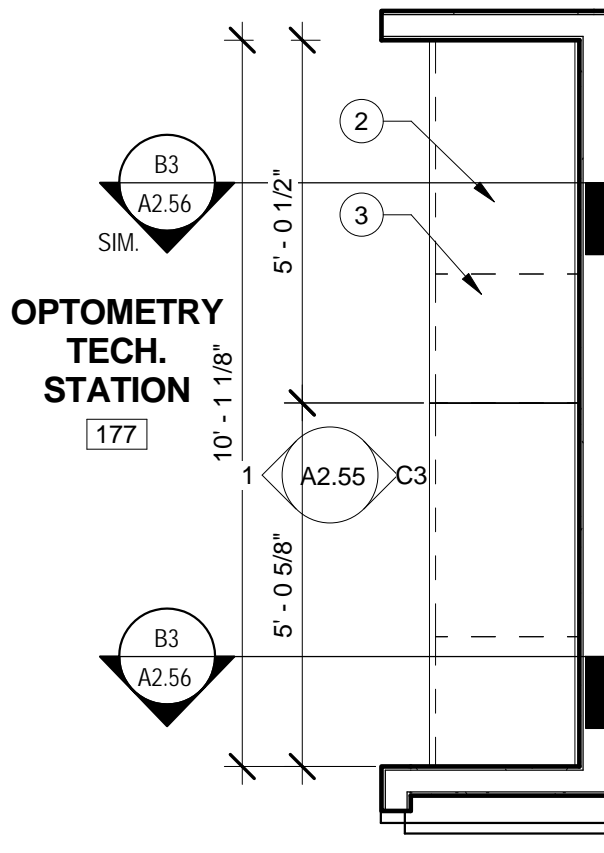
PEDICARE STAFF RESTROOM PLAN A1 



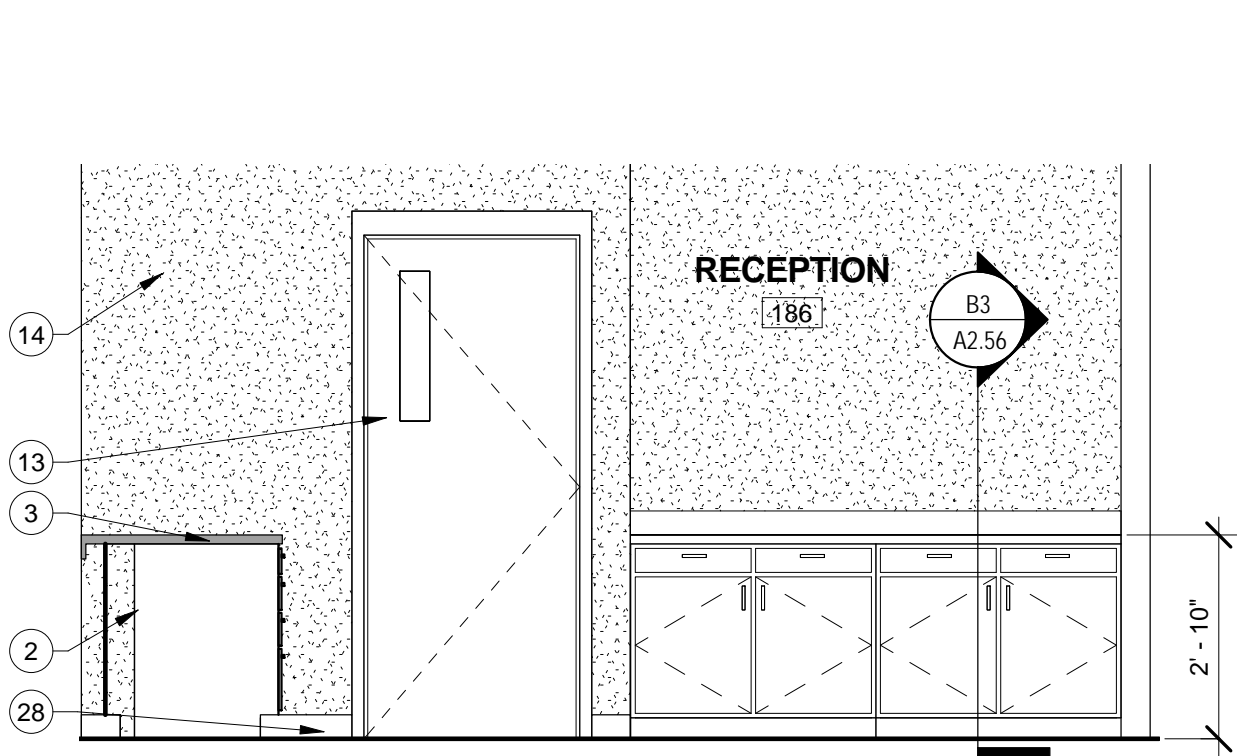
OPTOMETRY CORRIDOR SINK ①
3/8" = 1'-0"



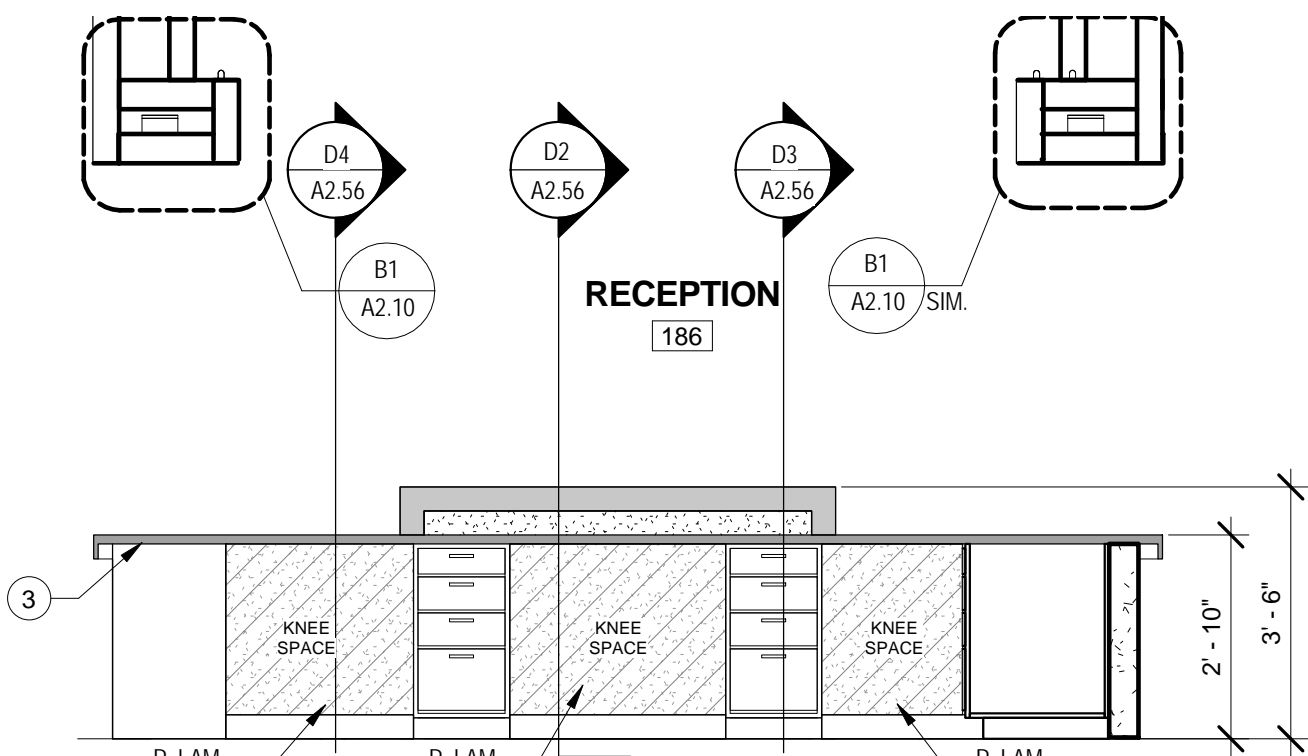
OPTOMETRY TECH STATION INT. ELEVATION ③
3/8" = 1'-0"



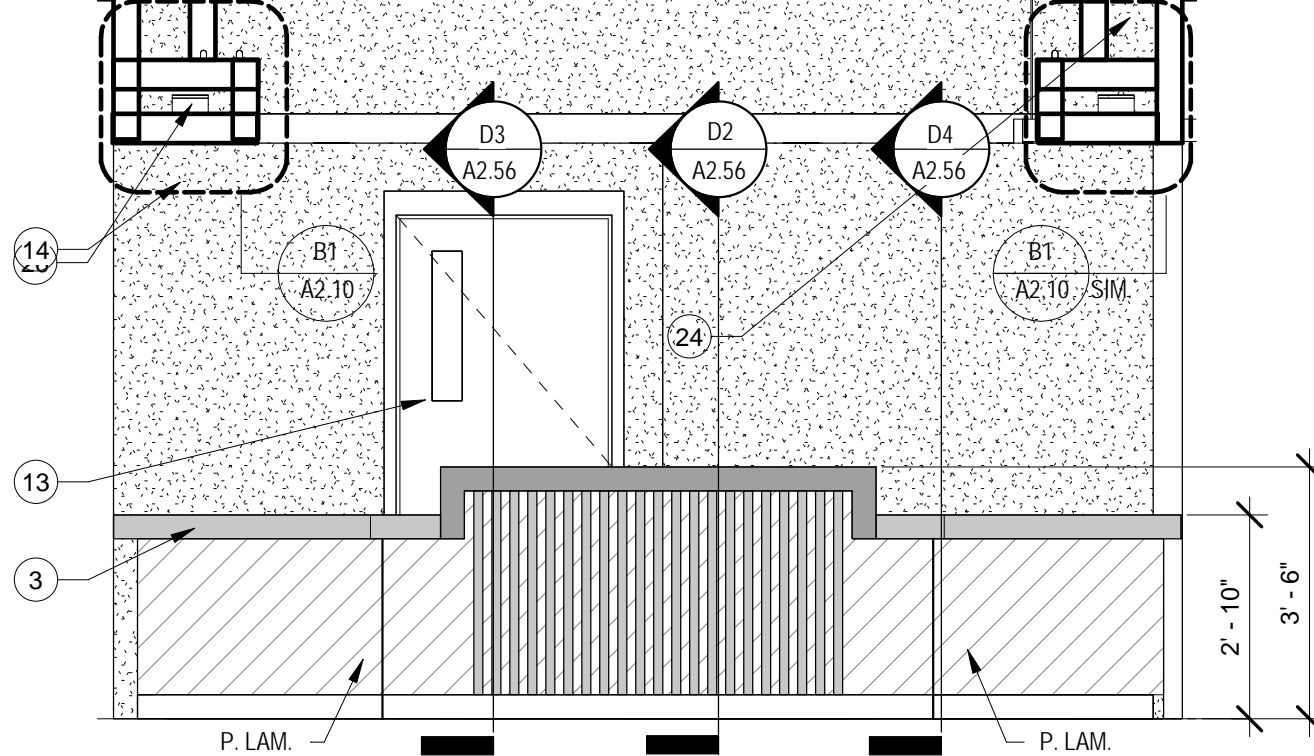
OPTOMETRY TECH STATION PLAN ②
3/8" = 1'-0"



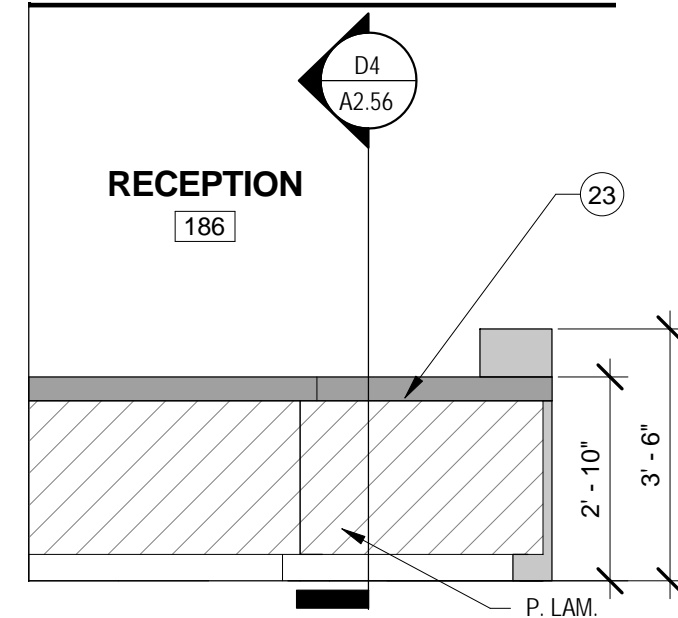
OPTOMETRY RECEPTION INTERIOR ELEVATION - EAST ⑤
3/8" = 1'-0"



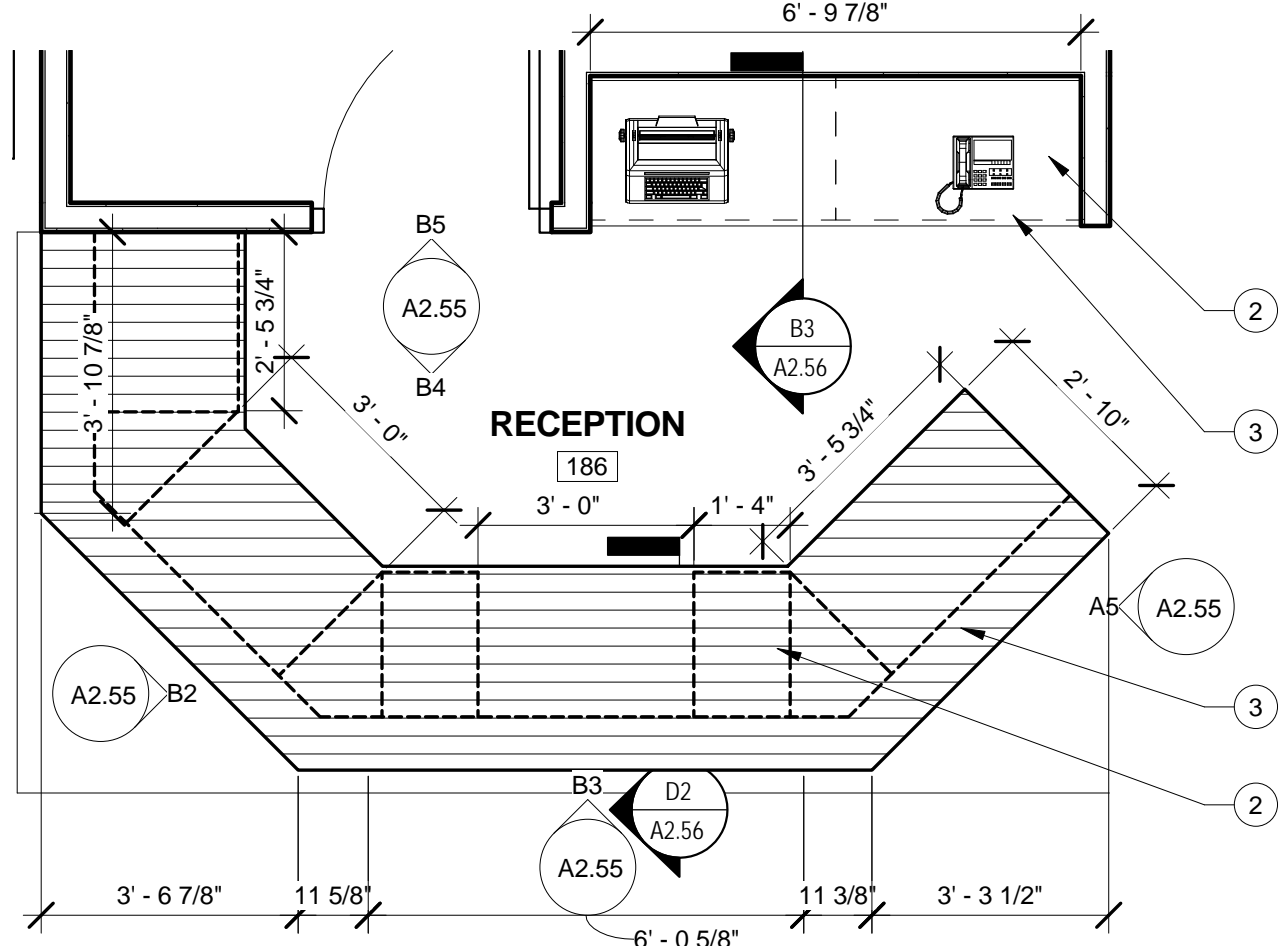
OPTOMETRY RECEPTION INTERIOR ELEVATION - W. REAR ④
3/8" = 1'-0"



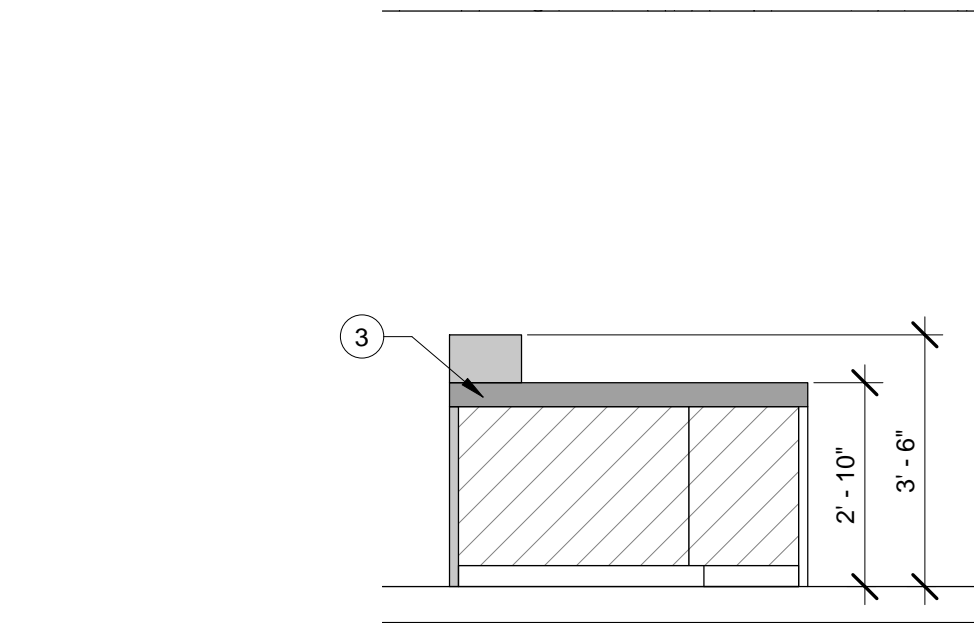
OPTOMETRY RECEPTION INTERIOR ELEVATION - WEST ③
3/8" = 1'-0"



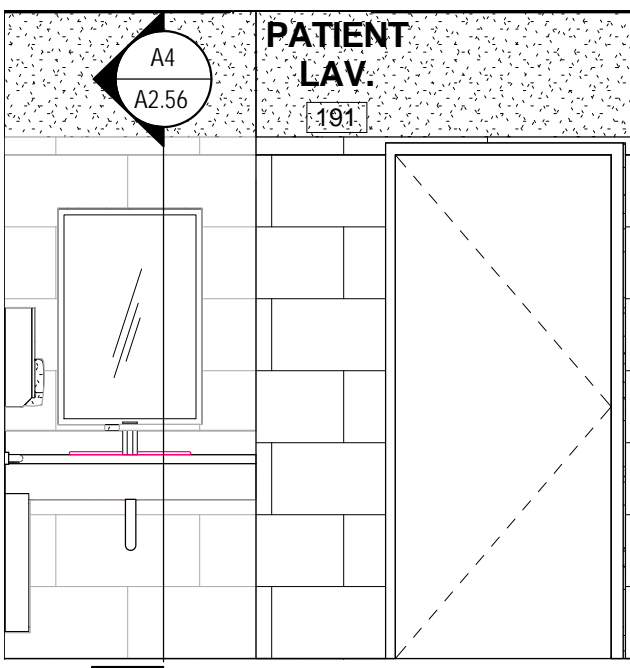
OPTOMETRY RECEPTION INTERIOR ELEVATION - NORTH ②
3/8" = 1'-0"



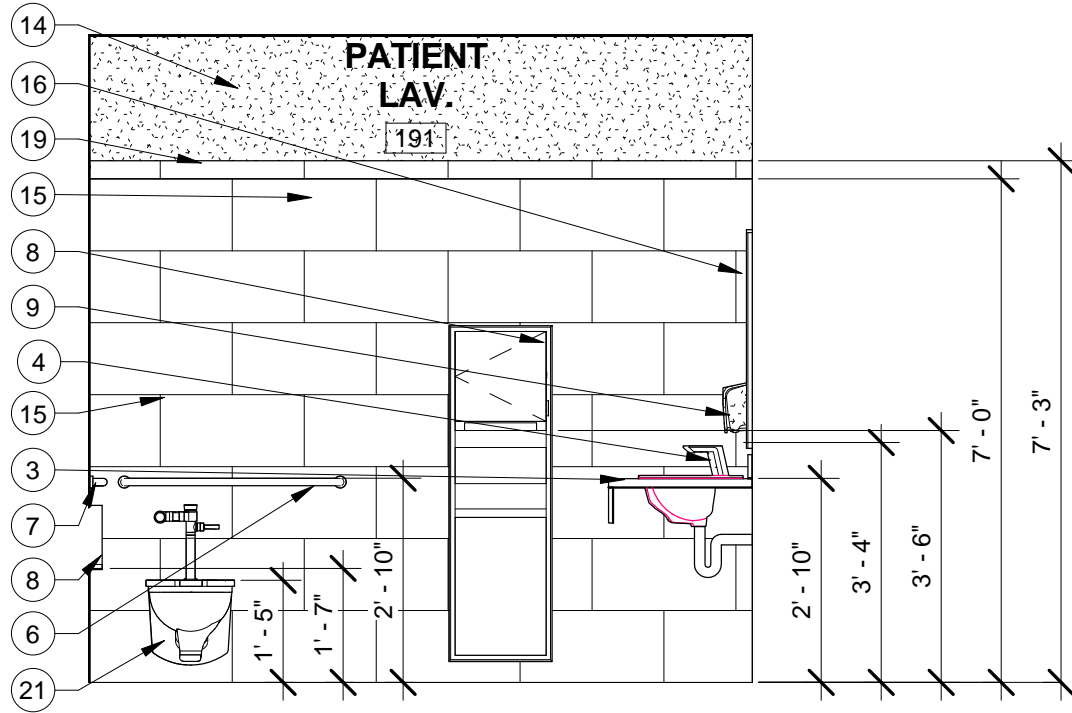
ENLARGED OPTOMETRY RECEPTION COUNTER ①



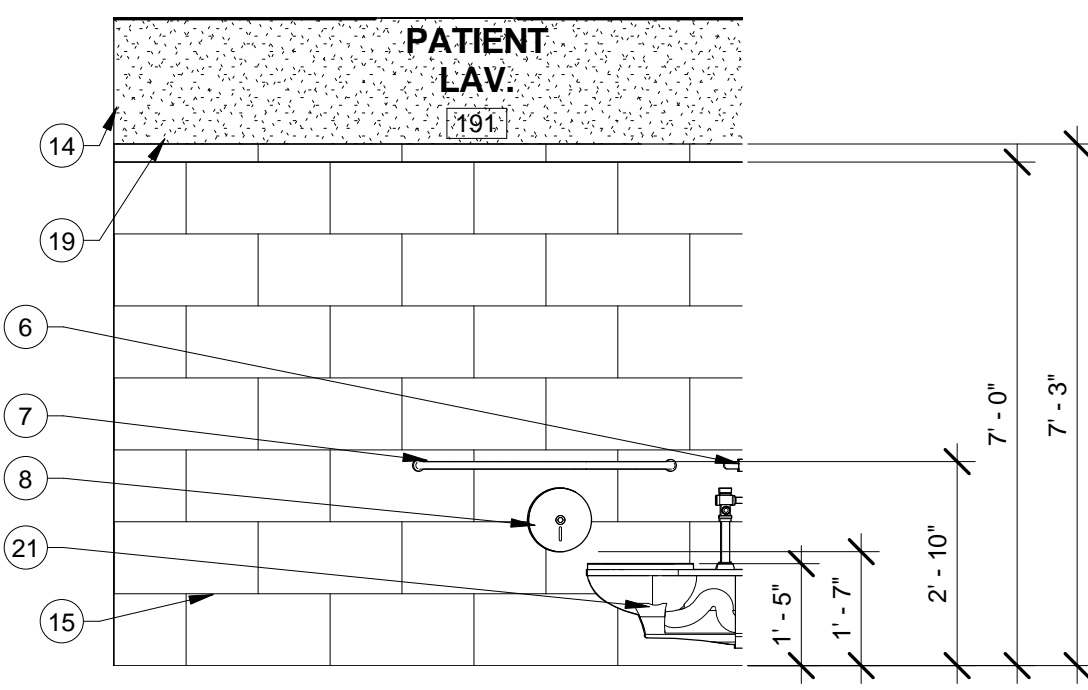
OPTOMETRY RECEPTION INTERIOR ELEVATION - SOUTH ⑤
3/8" = 1'-0"



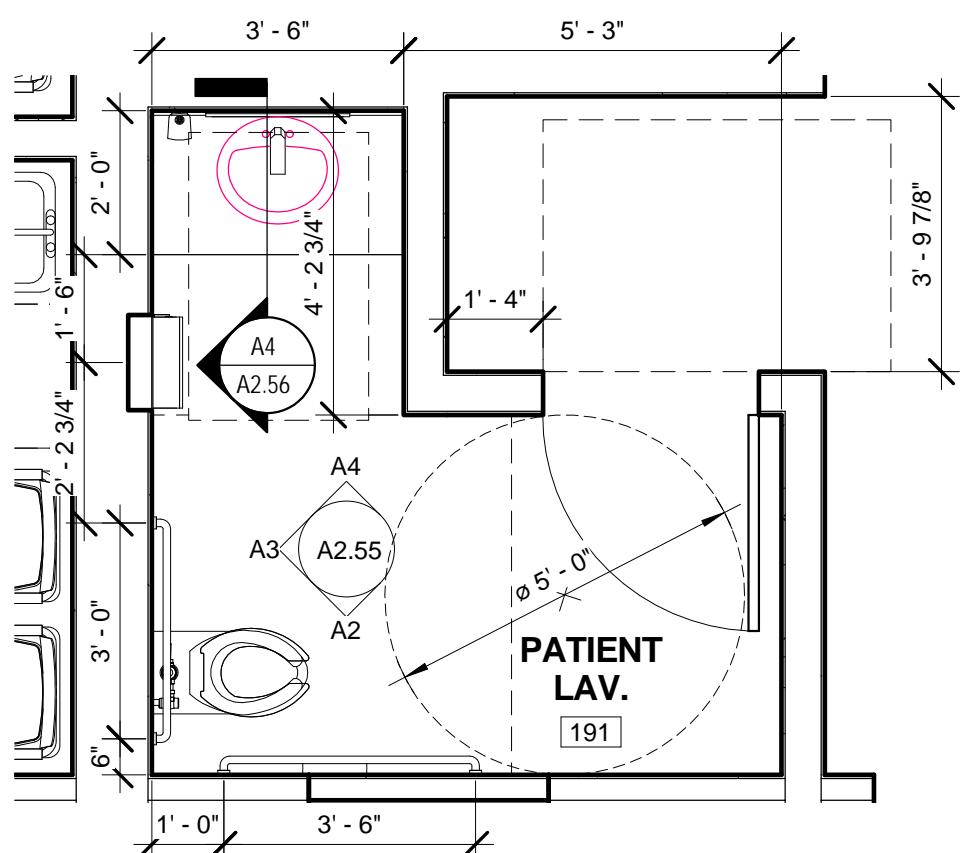
OPTOMETRY PATIENT LAVATORY INTERIOR ELEVATION - EAST ④
3/8" = 1'-0"



OPTOMETRY PATIENT LAVATORY INTERIOR ELEVATION - NORTH ③
3/8" = 1'-0"

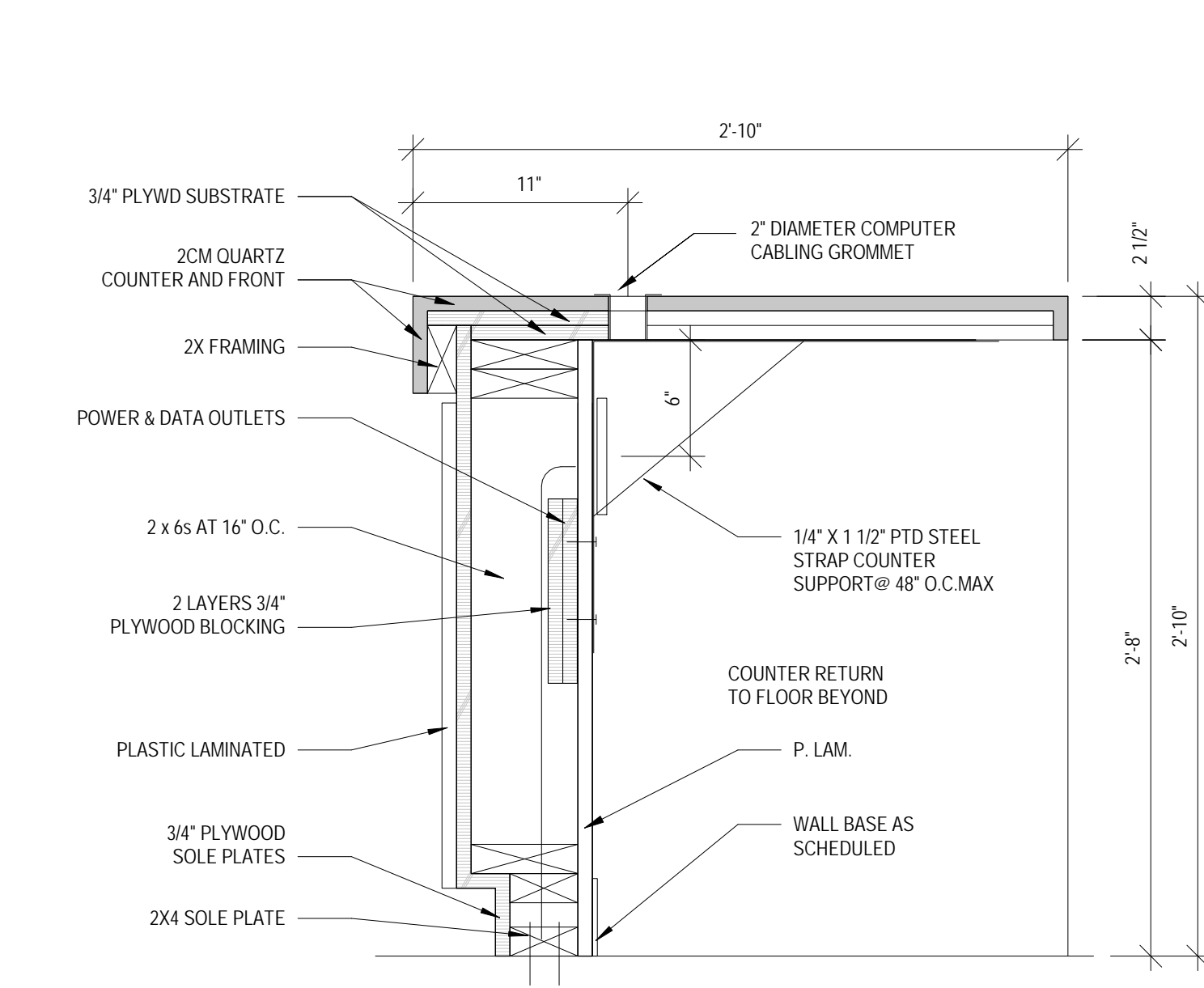


OPTOMETRY PATIENT LAVATORY INTERIOR ELEVATION - WEST ②
3/8" = 1'-0"

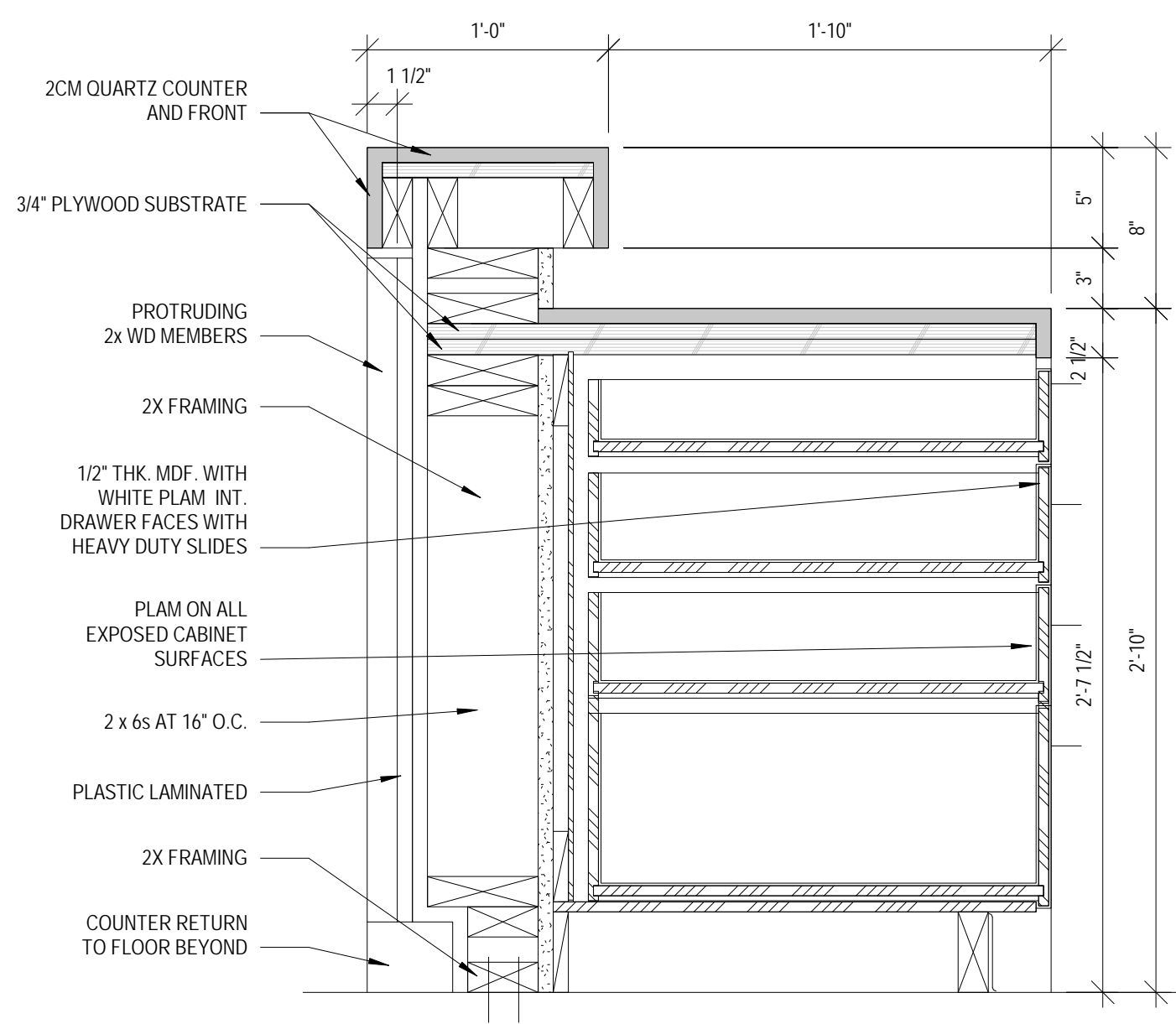


OPTOMETRY PATIENT LAVATORY PLAN ①
3/8" = 1'-0"

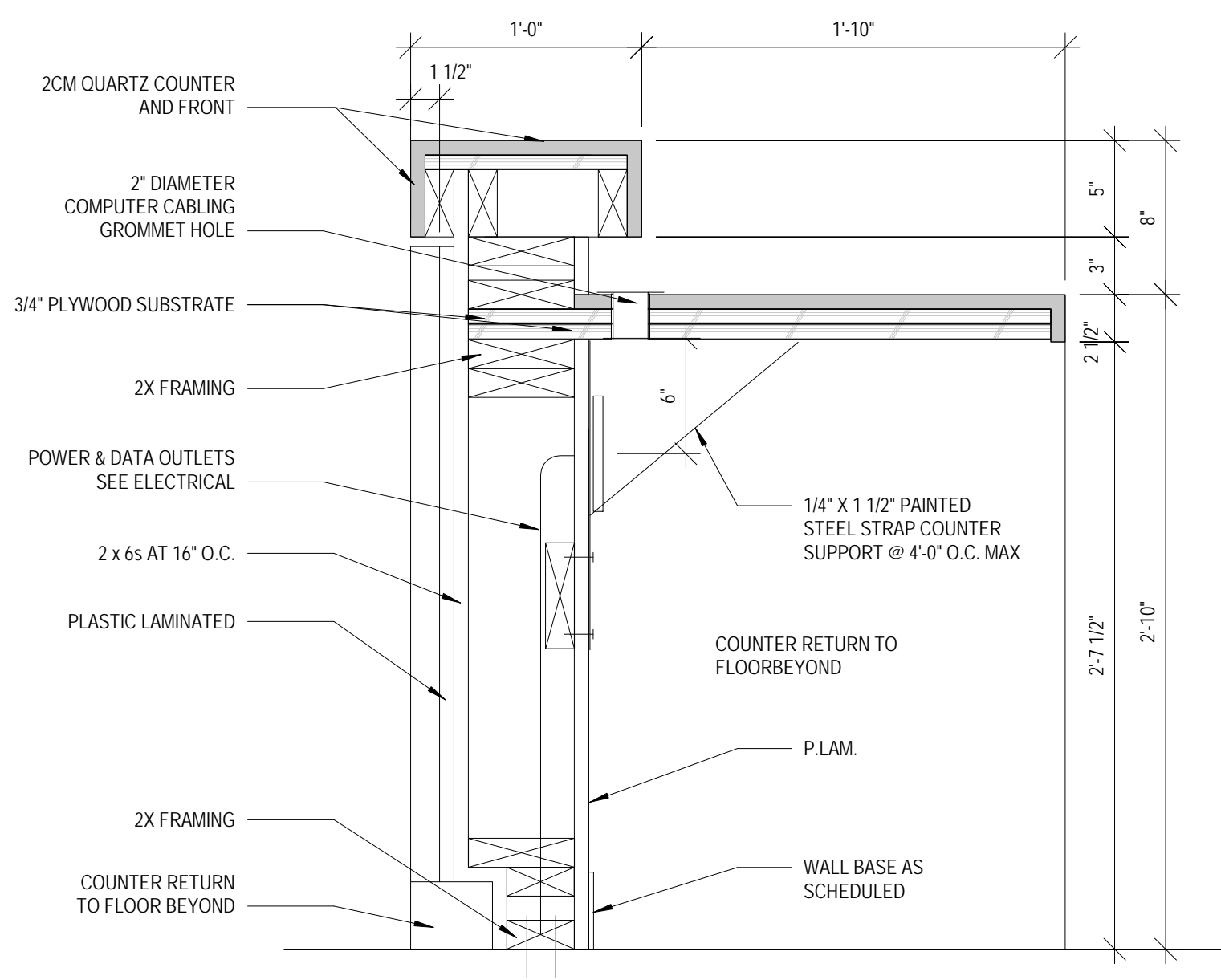
| KEYNOTE LEGEND | |
|----------------|--|
| KEY | DESCRIPTION |
| 1 | UPPER CABIENTS |
| 2 | LOWER CABINETS |
| 3 | QUARTZ COUNTERTOP |
| 4 | SINK, REF. M.E.P. DWG'S |
| 5 | TOILET (TYP.), REF. M.E.P. DWG'S |
| 6 | 36" GRAB BAR |
| 7 | 42" GRAB BAR |
| 8 | TOILET PAPER DISPENSER, OWNER PROVIDED CONTRACTOR INSTALLED |
| 9 | SOAP DISPENSER, OWNER PROVIDED CONTRACTOR INSTALLED |
| 10 | PAPER TOWEL/TRASH DISPENSER |
| 11 | DRINKING FOUNTAINS, REF M.E.P. DWG'S |
| 12 | CERAMIC TILE |
| 13 | DOOR & WINDOW AS SCHEDULE |
| 14 | GYP. BD. TAPED,FLOAT,TEXTURED & PAINTED |
| 15 | 12" x 24" PORCELAIN TILE-AXIOM SILVER FM94-POLISHED w/MAPEI 107 IRON GROUT |
| 16 | MIRROR, 24" X 36" STAINLESS STEEL FRAME |
| 17 | SOLID PLASTIC TOILET PARTITION |
| 18 | BABY CHANGING STATION, OWNER PROVIDED CONTRACTOR INSTALLED |
| 19 | 3" x 24" PORCELAIN TILE BULLNOSE-AXIOM SILVER FM94-POLISHED w/MAPEI 107 IRON GROUT |
| 20 | ADA URINAL, REF. M.E.P. DWG'S |
| 21 | ADA TOILET, REF. M.E.P. DWG'S |
| 22 | URINAL DIVIDING PARTITION |
| 23 | NURSE'S STATION QUARTZ COUNTERTOP |
| 24 | CUSTOM SUSPENDED CEILING |
| 25 | COVE LIGHTING, SEE M.E.P. DWG'S |
| 26 | CAN LIGHTS, SEE M.E.P. DWG'S |
| 28 | WALL BASE AS SCHEDULE |
| 29 | FURNITURE & APPIANCES, OWNER PROVIDED |
| 30 | WALL BASE AS SCHEDULE |
| 31 | TALL CABINETS |
| 32 | WALL HUNG SINK, w/ PIPE JACKET, REF. M.E.P. DWG'S |



MILLWORK
SECTION-RECEPTIONIST/NURSE'S
STATION KNEE SPACE (D4)
1 1/2" = 1'-0"

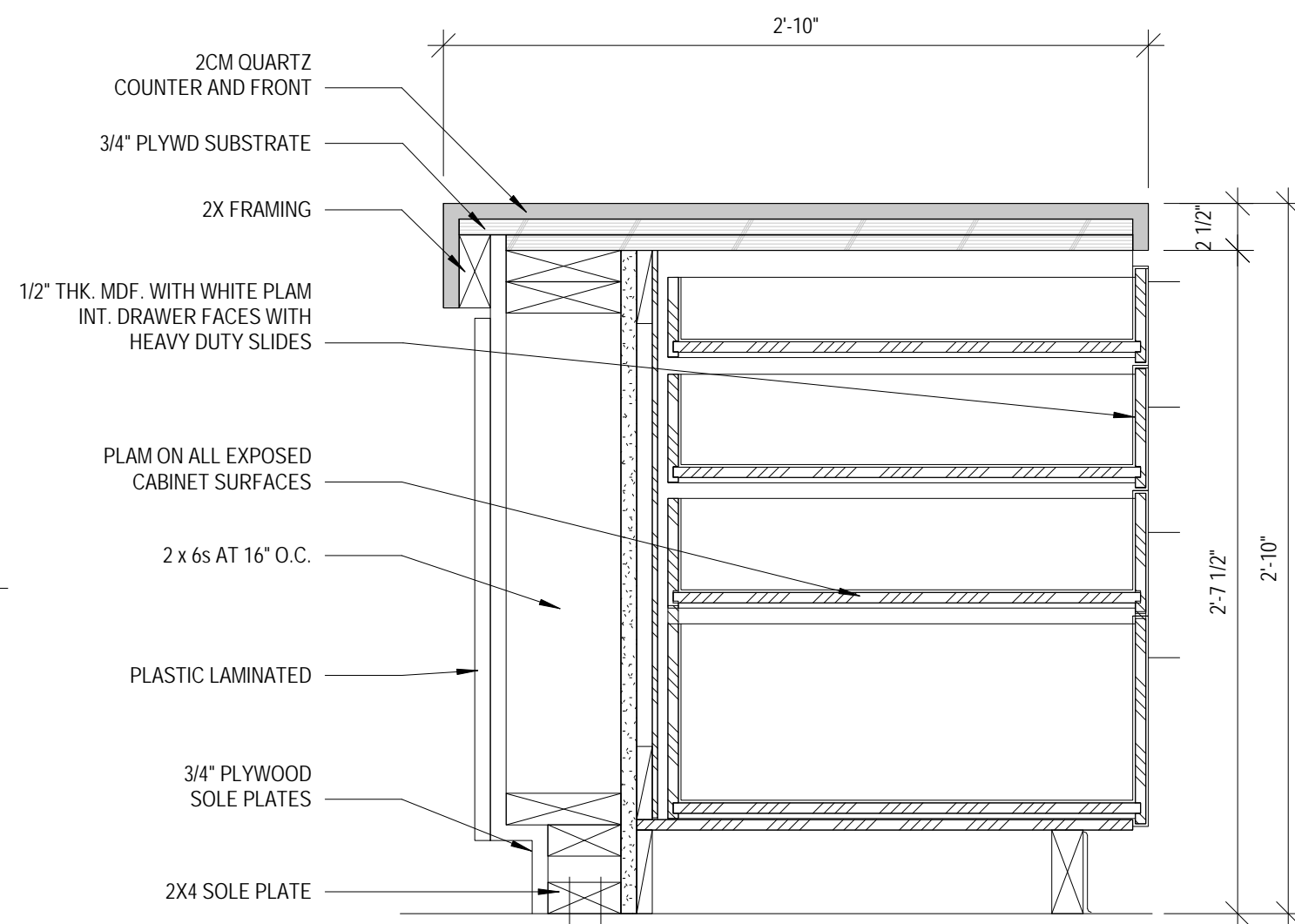


MILLWORK
SECTION-RECEPTIONIST/NURSE'S
STATION DBL LEVEL w/ BASE (D3)
1 1/2" = 1'-0"

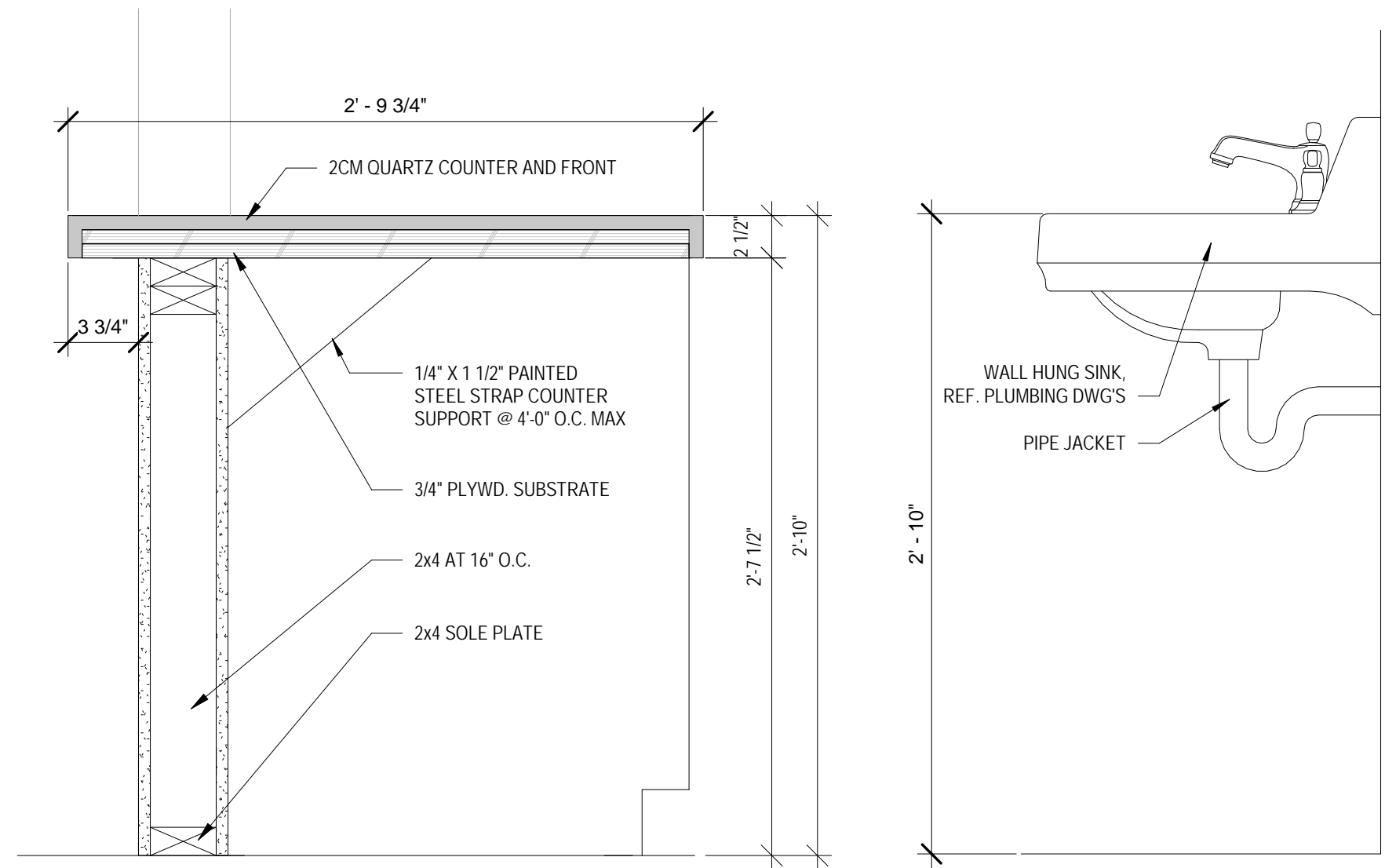


MILLWORK
SECTION-RECEPTIONIST/NURSE'S
STATION DBL LEVEL w/ KNEE SPACE (D2)
1 1/2" = 1'-0"

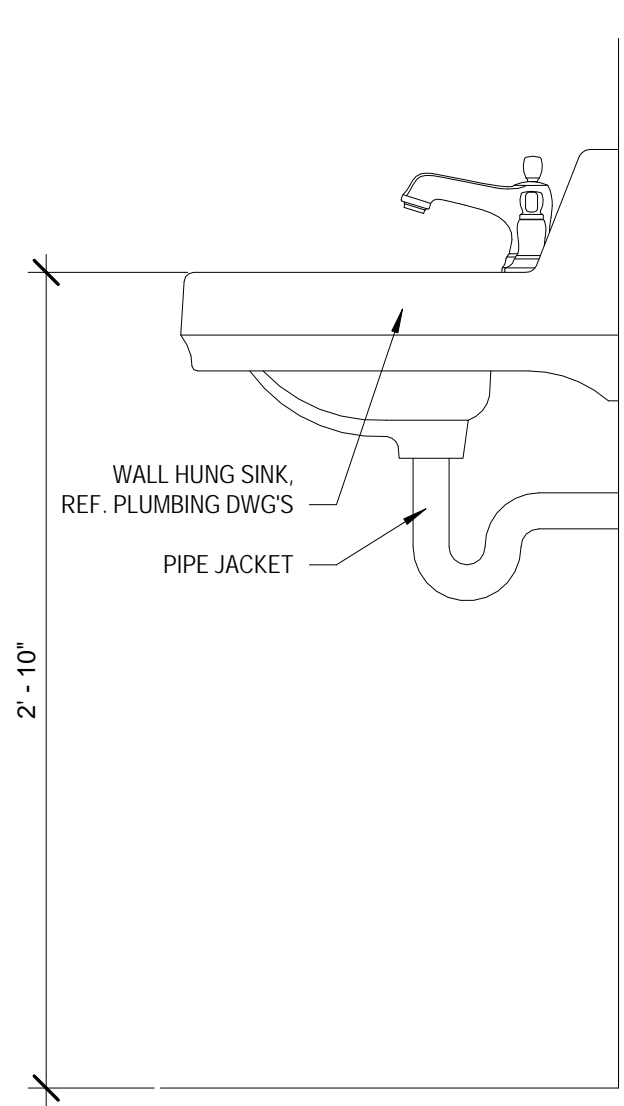
| GENERAL NOTES | |
|---------------|--|
| A | ALL MILLWORK SHALL BE FIELD VERIFIED FOR ACTUAL FIELD DIMENSIONS PRIOR TO FABRICATION. |
| B | ALL MILLWORK SHALL COMPLY WITH AWI PREMIUM STANDARDS |
| C | ALL PORTIONS OF MILLWORK SHALL HAVE SHOP DRAWINGS PRODUCED AND PROVIDED AS PART OF THE SUBMITTAL PROCESS FOR REVIEW PRIOR TO FABRICATION |
| D | THE ARCHITECT SHALL BE MADE AWARE OF ANY DISCONTINUED FINISHES SELECTED AS QUICKLY AS POSSIBLE SO AS NOT TO DELAY THE SELECTION OF A SUBSTITUTE. |
| E | ALL MILLWORK TOLERANCE SHALL BE AS DEFINED AS PART OF THE AWI PREMIUM STANDARDS. |



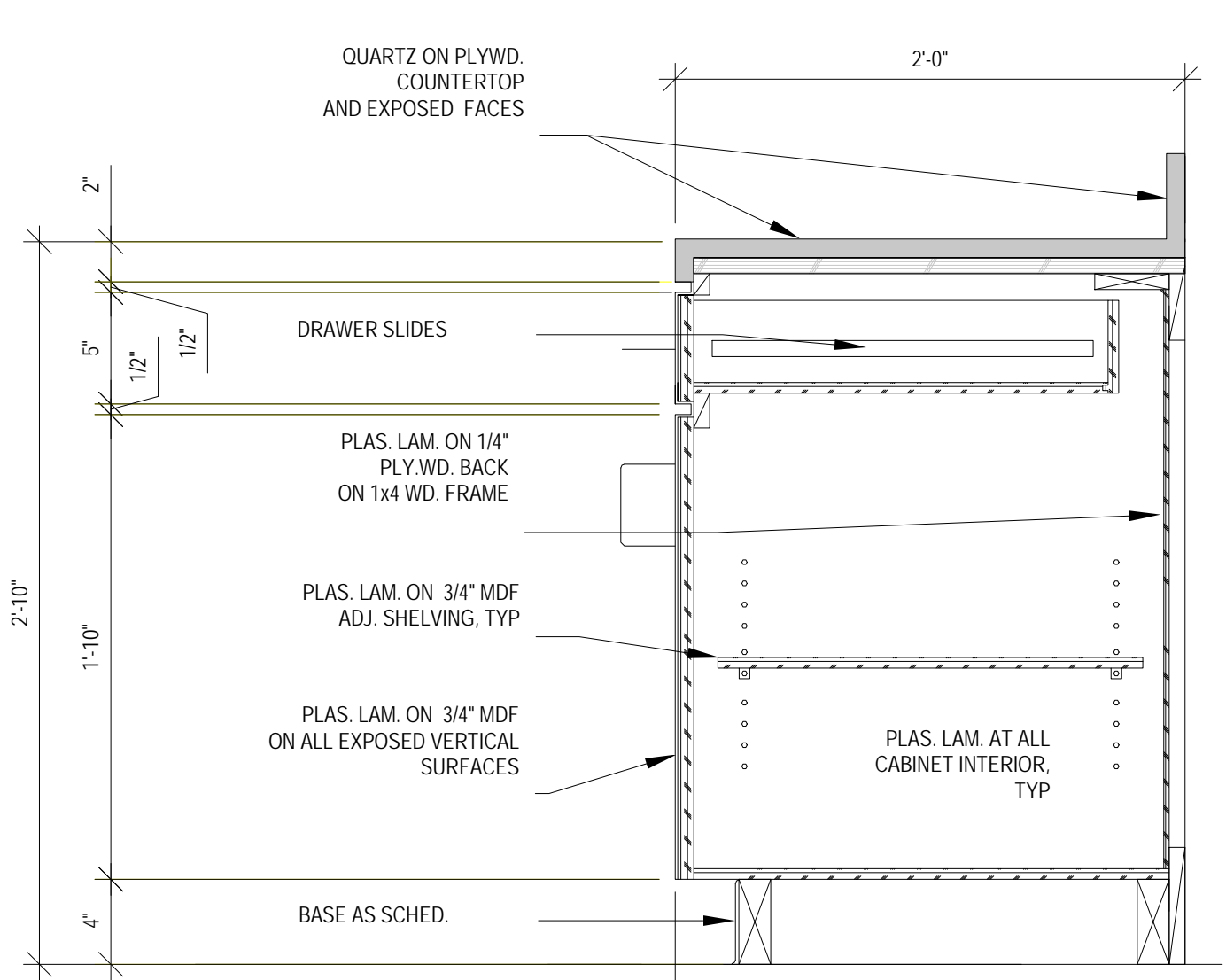
MILLWORK
SECTION-RECEPTIONIST/NURSE'S
STATION LOW END BASE (C1)
1 1/2" = 1'-0"



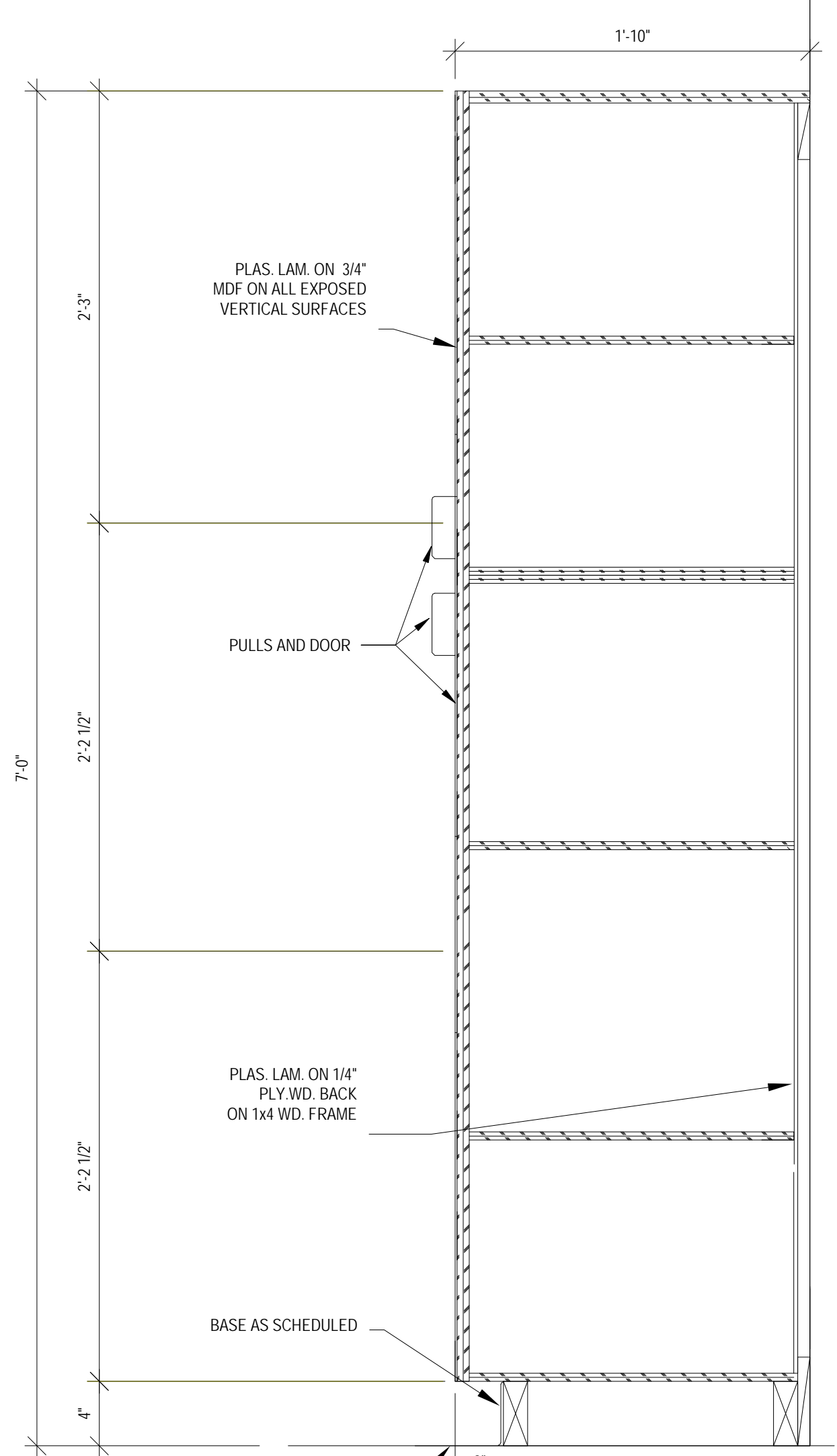
MILLWORK KNEE SPACE (B5)
1 1/2" = 1'-0"



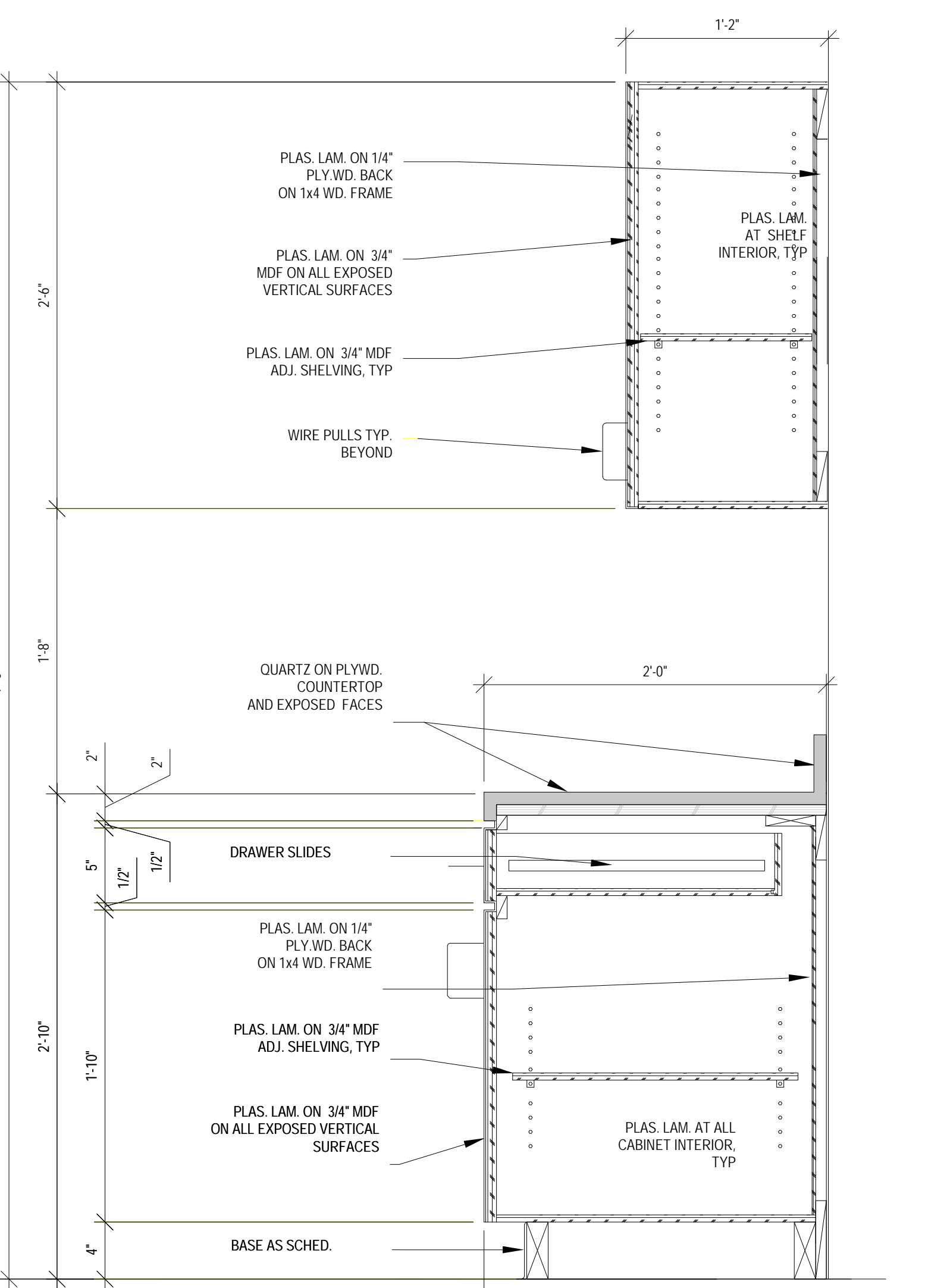
MILLWORK SECTION-
WALL HUNG SINK (B4)
1 1/2" = 1'-0"



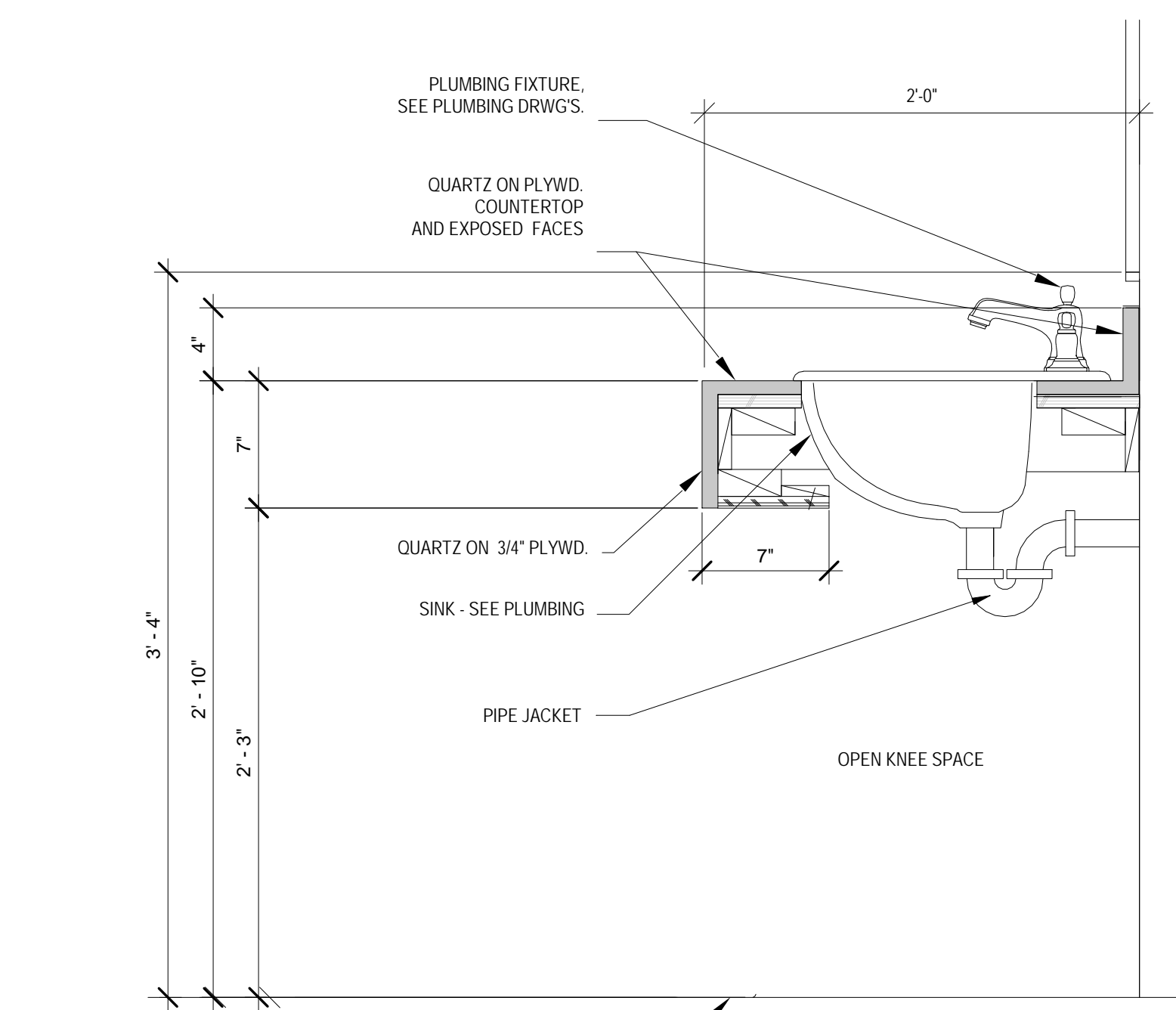
MILLWORK SECTION-LOWER (B3)
1 1/2" = 1'-0"



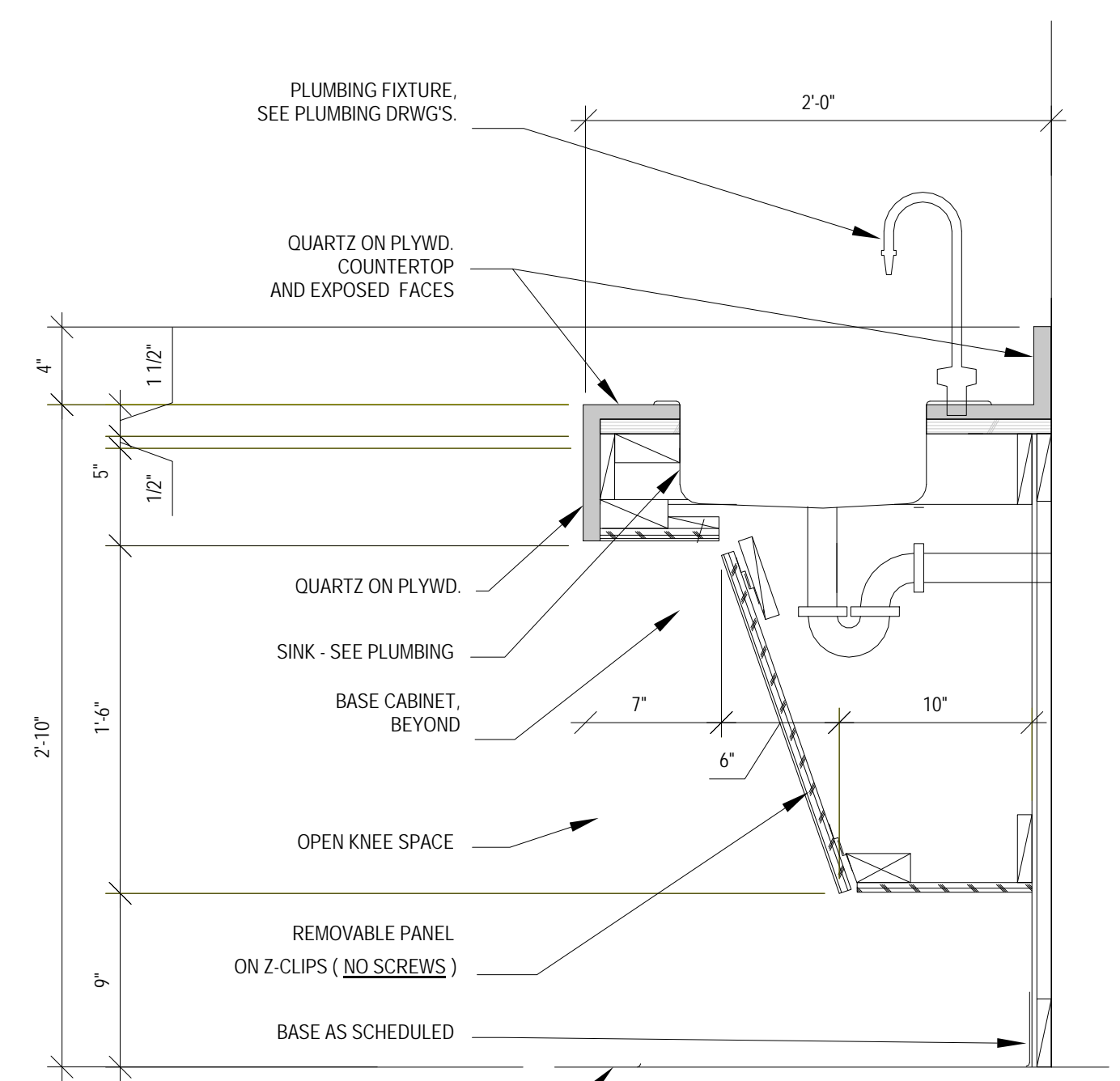
MILLWORK SECTION-TALL (A2)
1 1/2" = 1'-0"



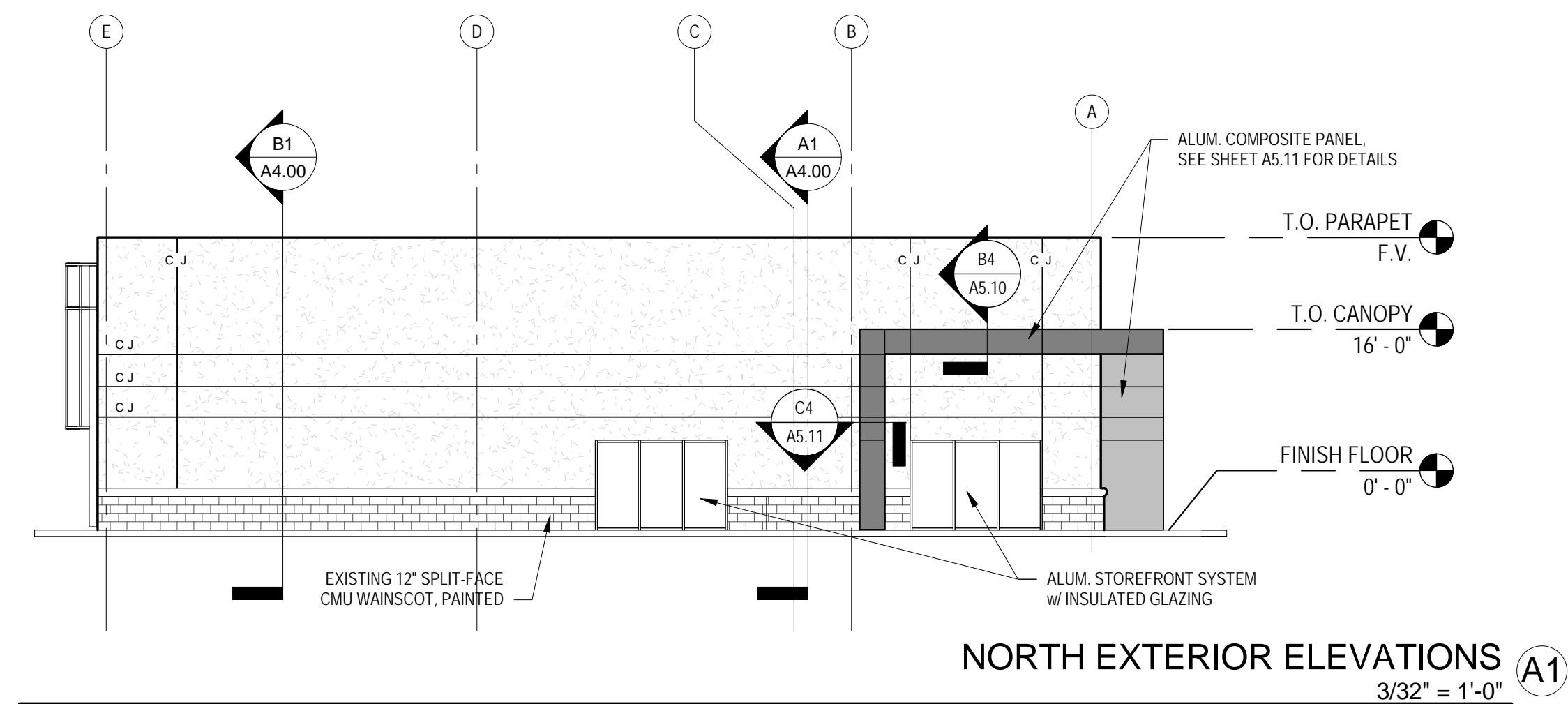
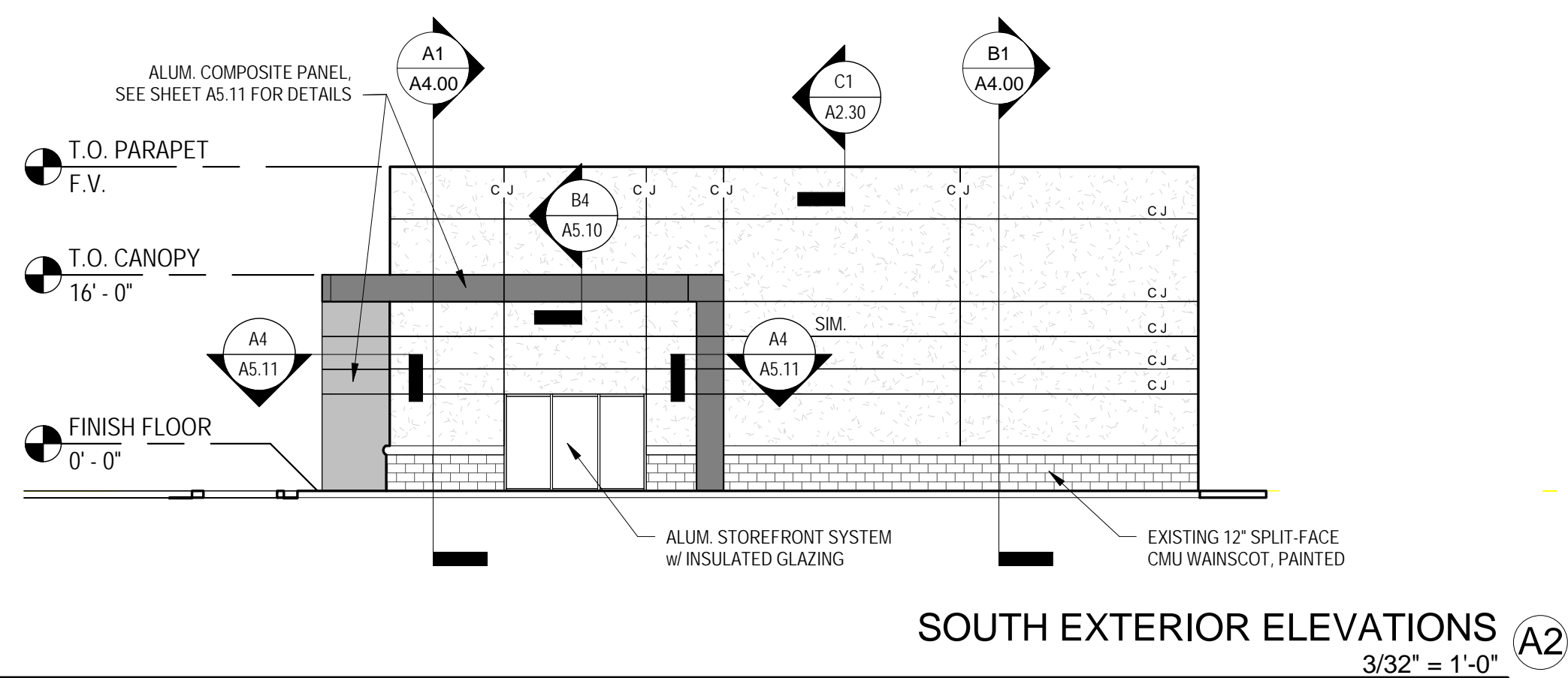
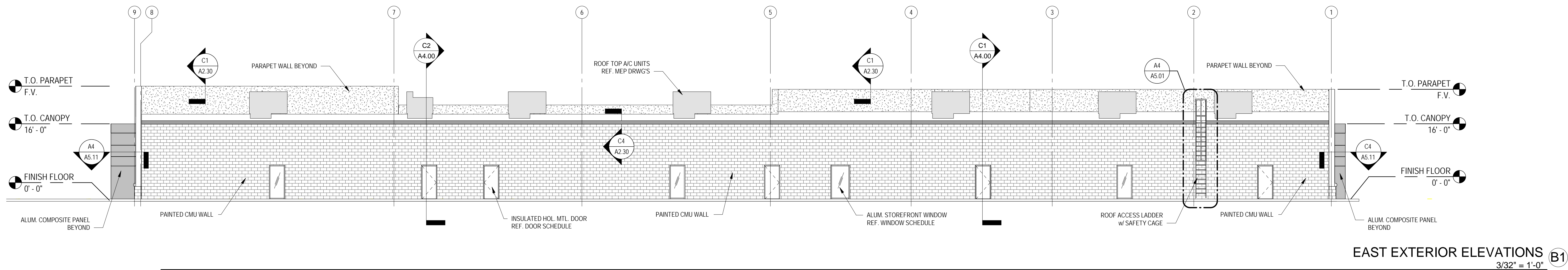
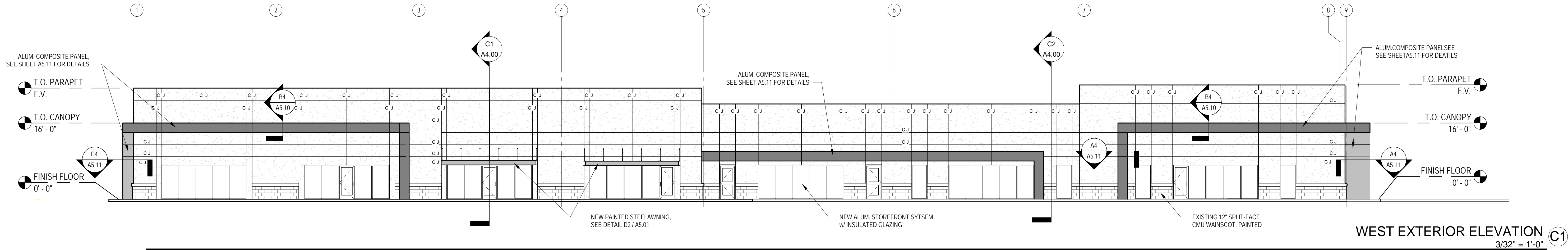
MILLWORK SECTION-UPPERS/LOWERS (A1)
1 1/2" = 1'-0"

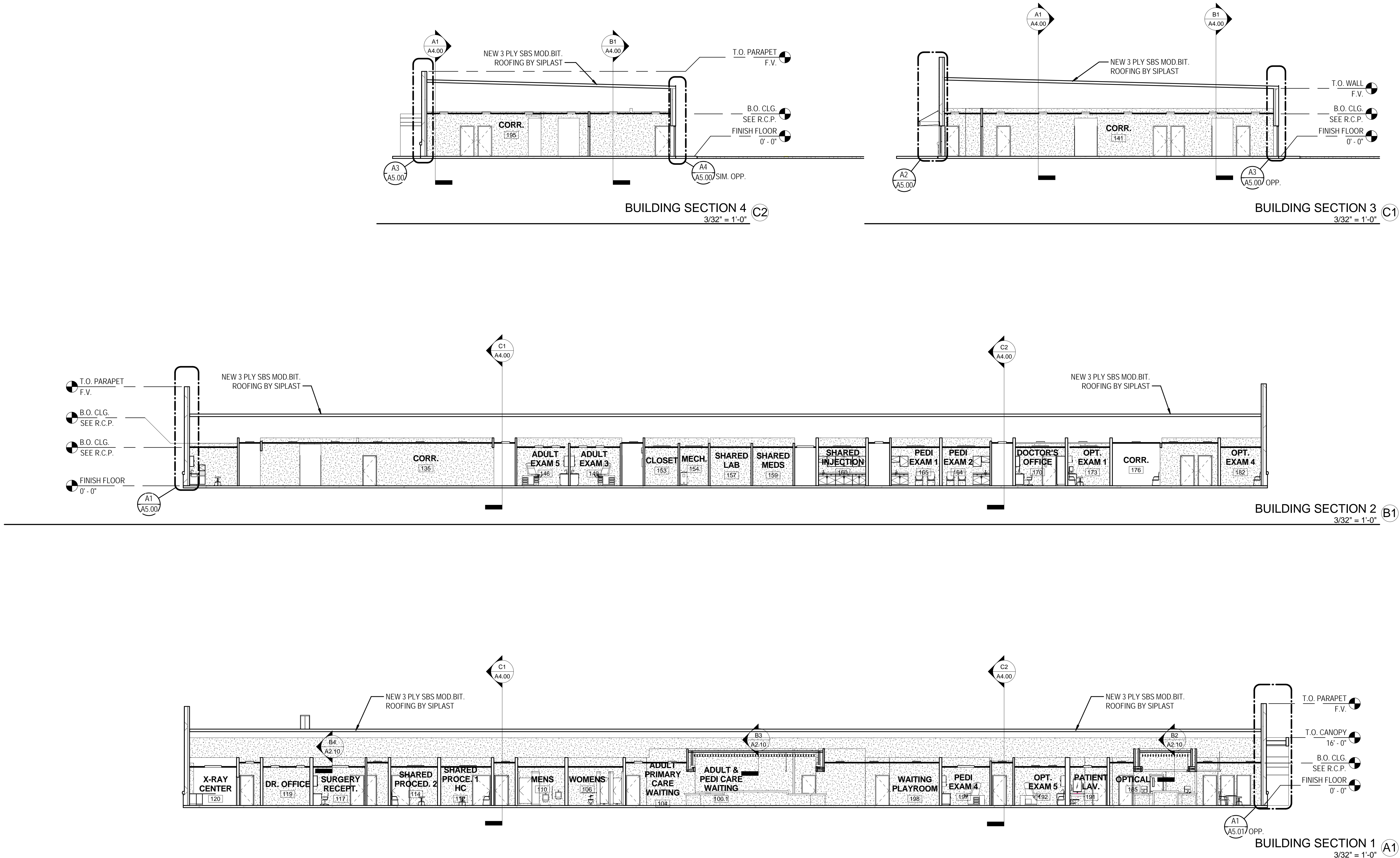


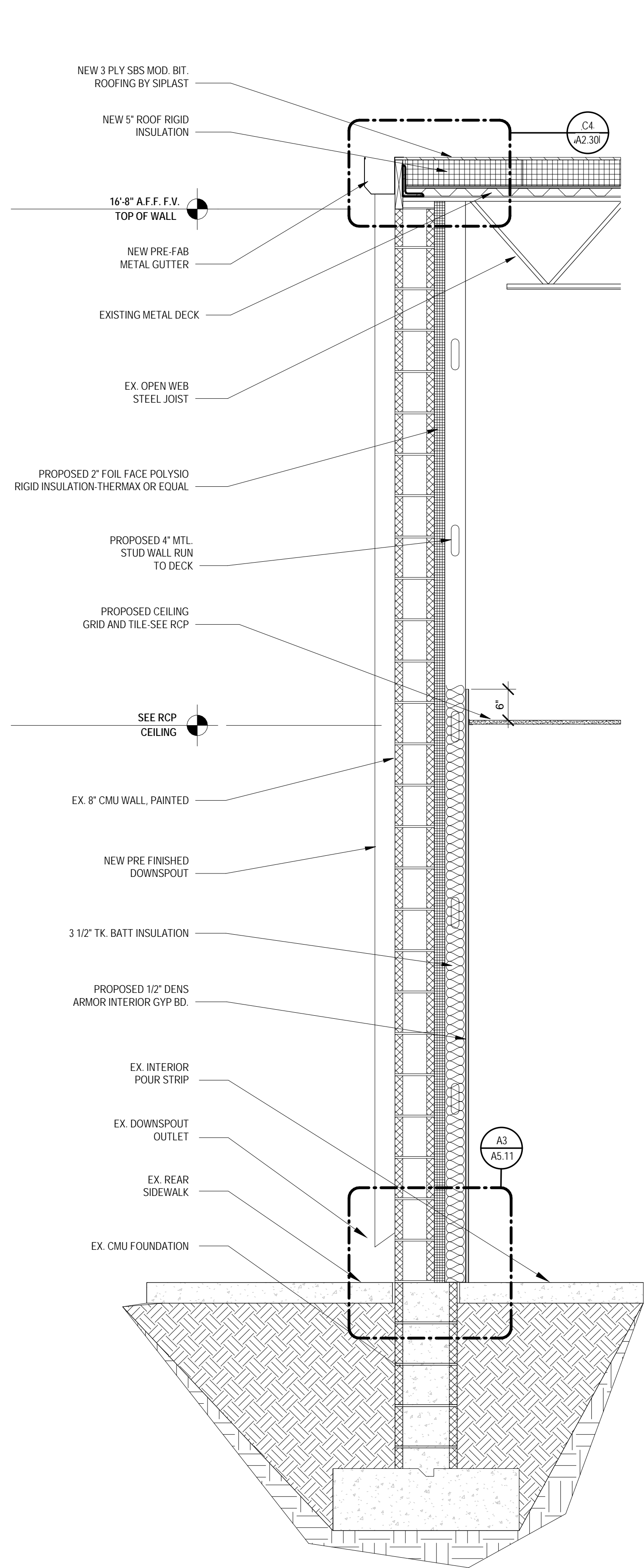
MILLWORK SECTION-LAVATORY SINK (A4)
1 1/2" = 1'-0"



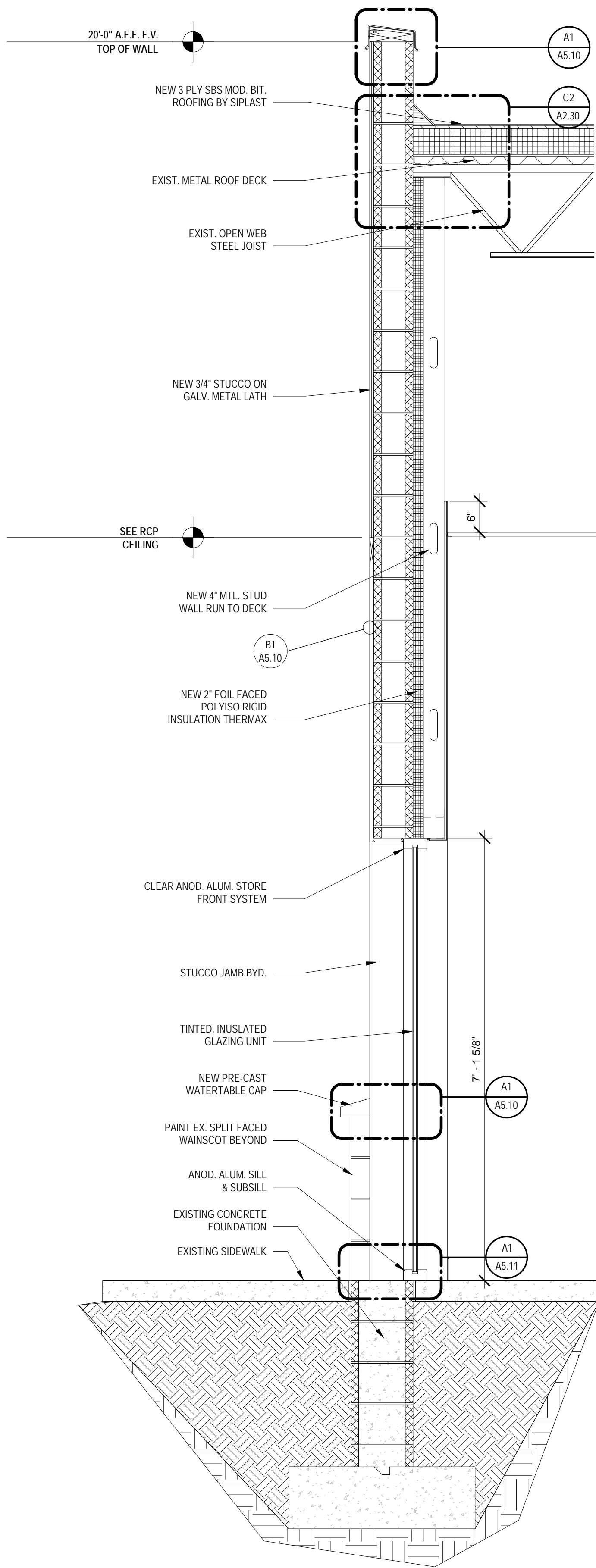
MILLWORK SECTION-SINK (A3)
1 1/2" = 1'-0"



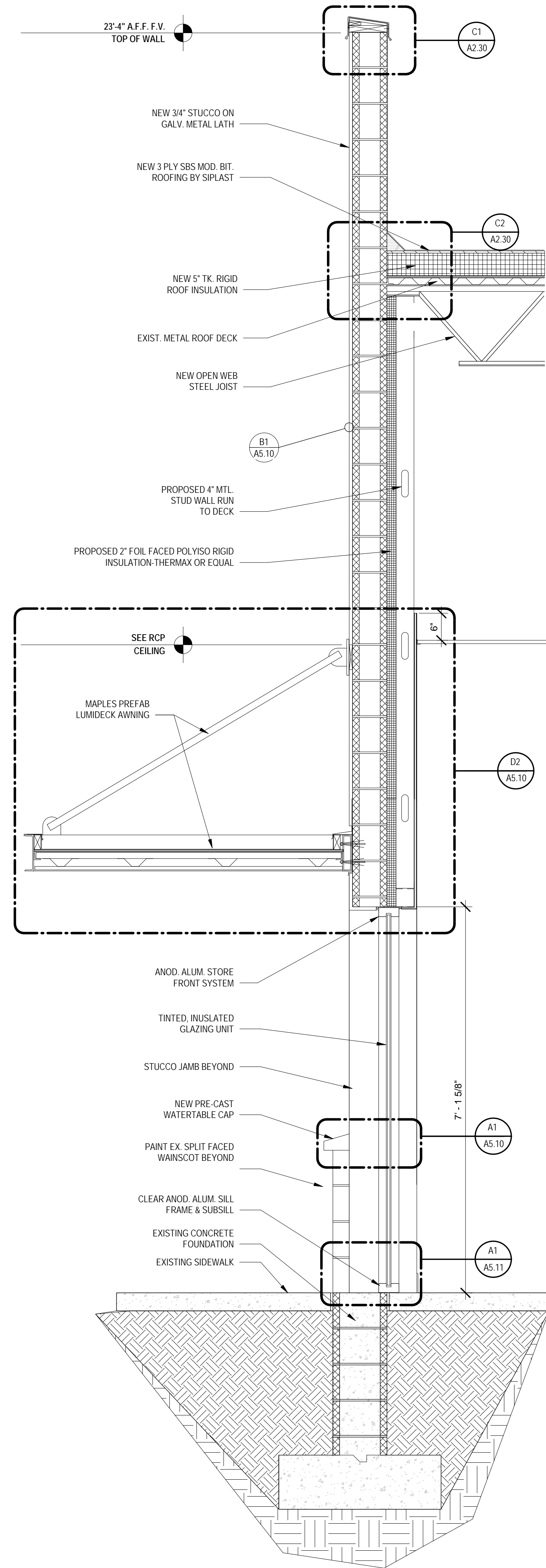




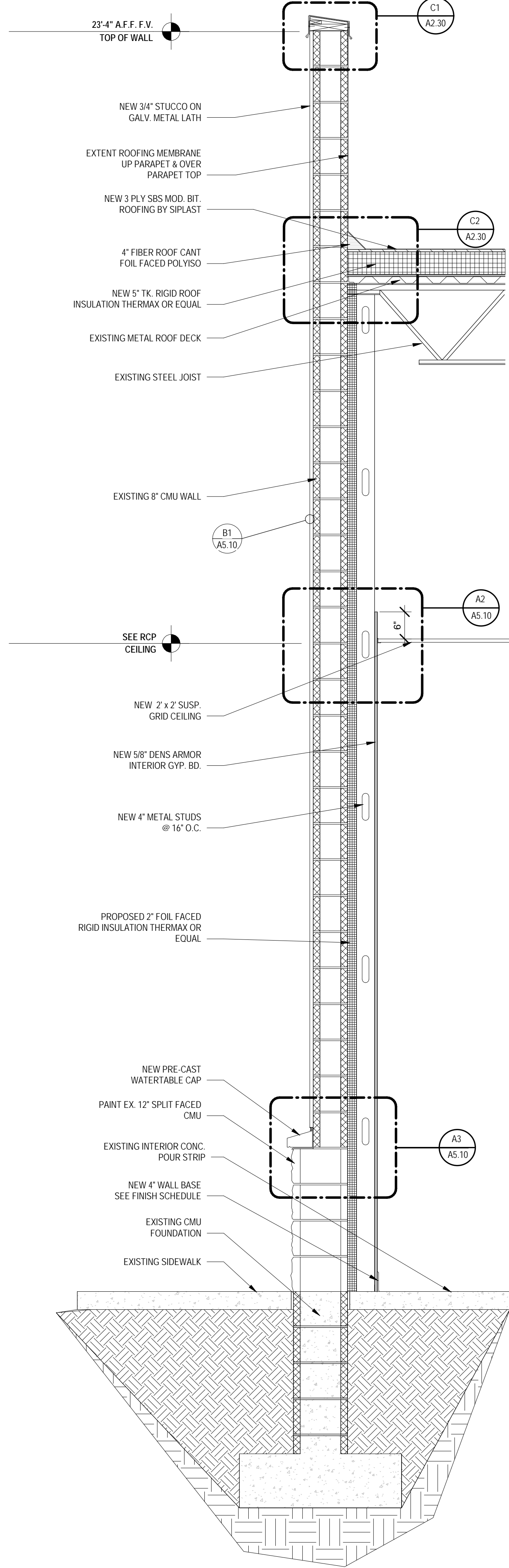
TYPICAL EAST WALL WITHOUT OPENING
3/4" = 1'-0" A4



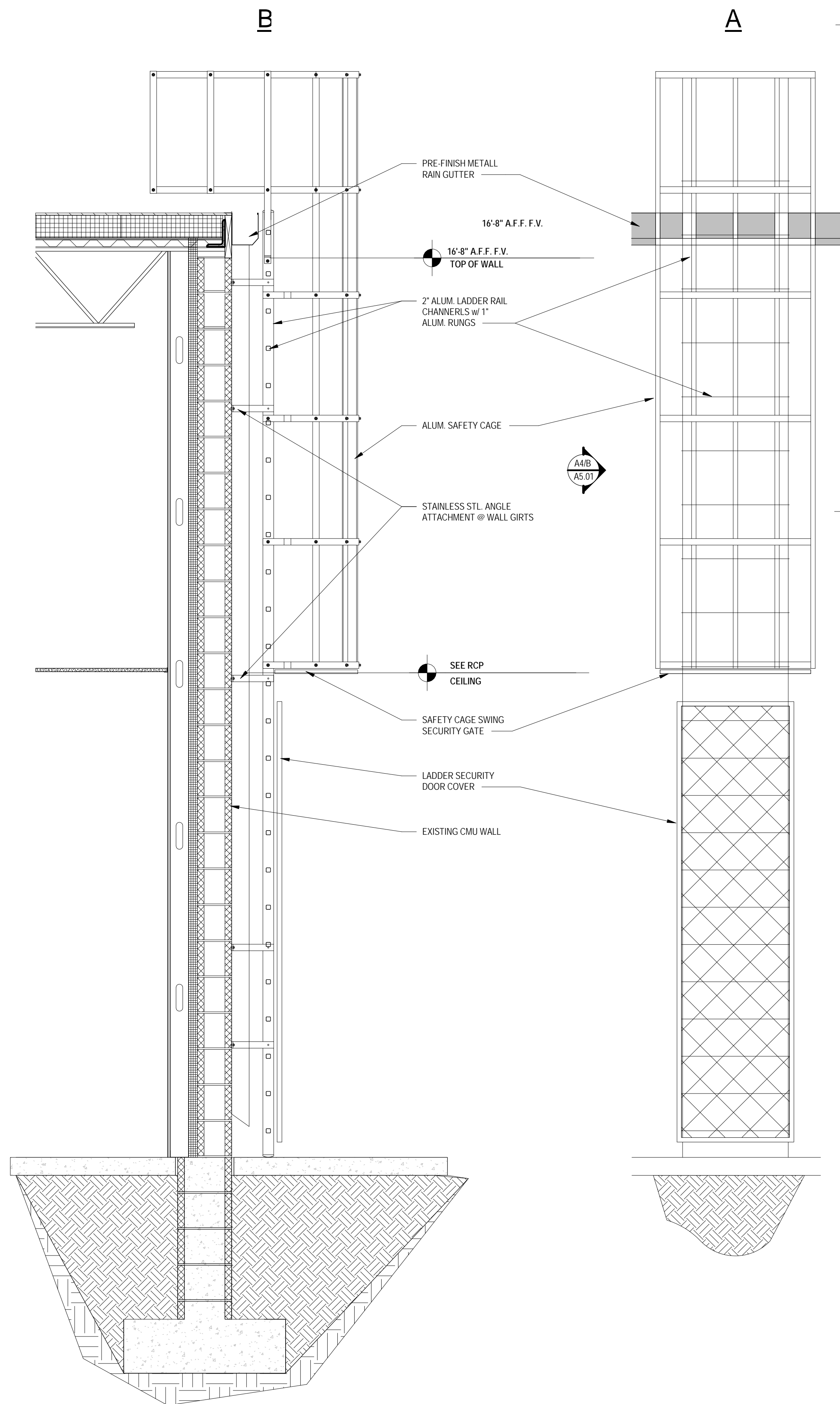
TYPICAL SHORT WEST WALL THRU
OPENING NO CANOPY
3/4" = 1'-0" A3



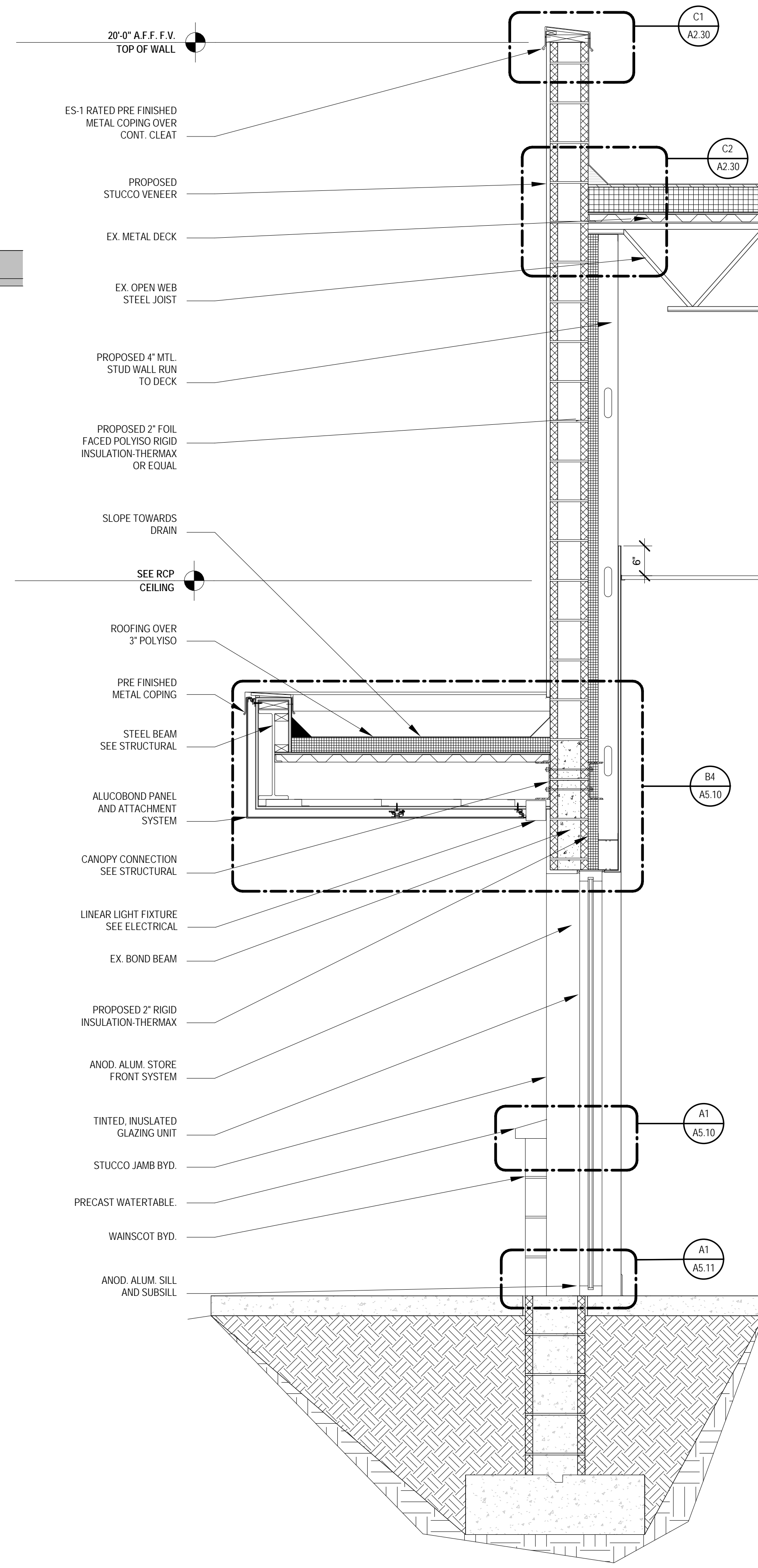
TYPICAL TALL WEST WALL THRU OPENING
3/4" = 1'-0" A2



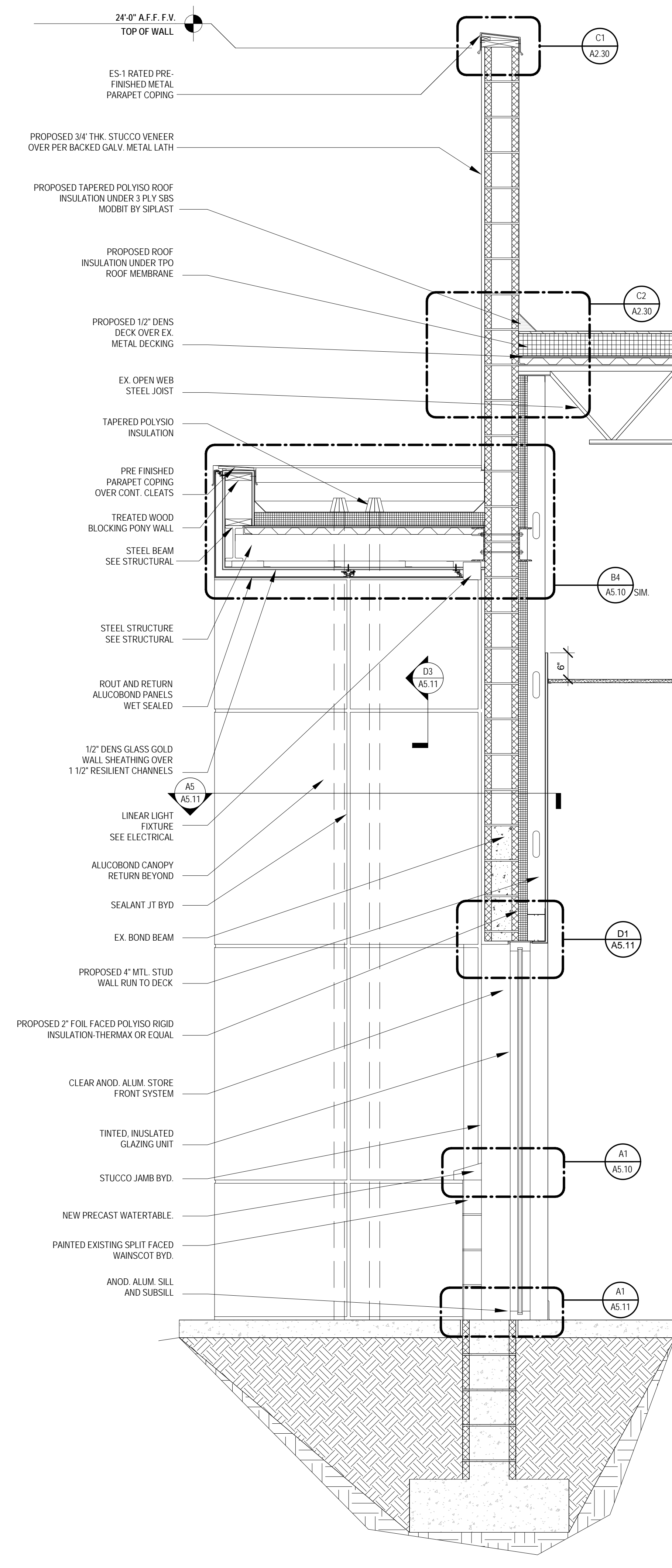
TYPICAL NORTH WALL w/ OPENING
3/4" = 1'-0" A1



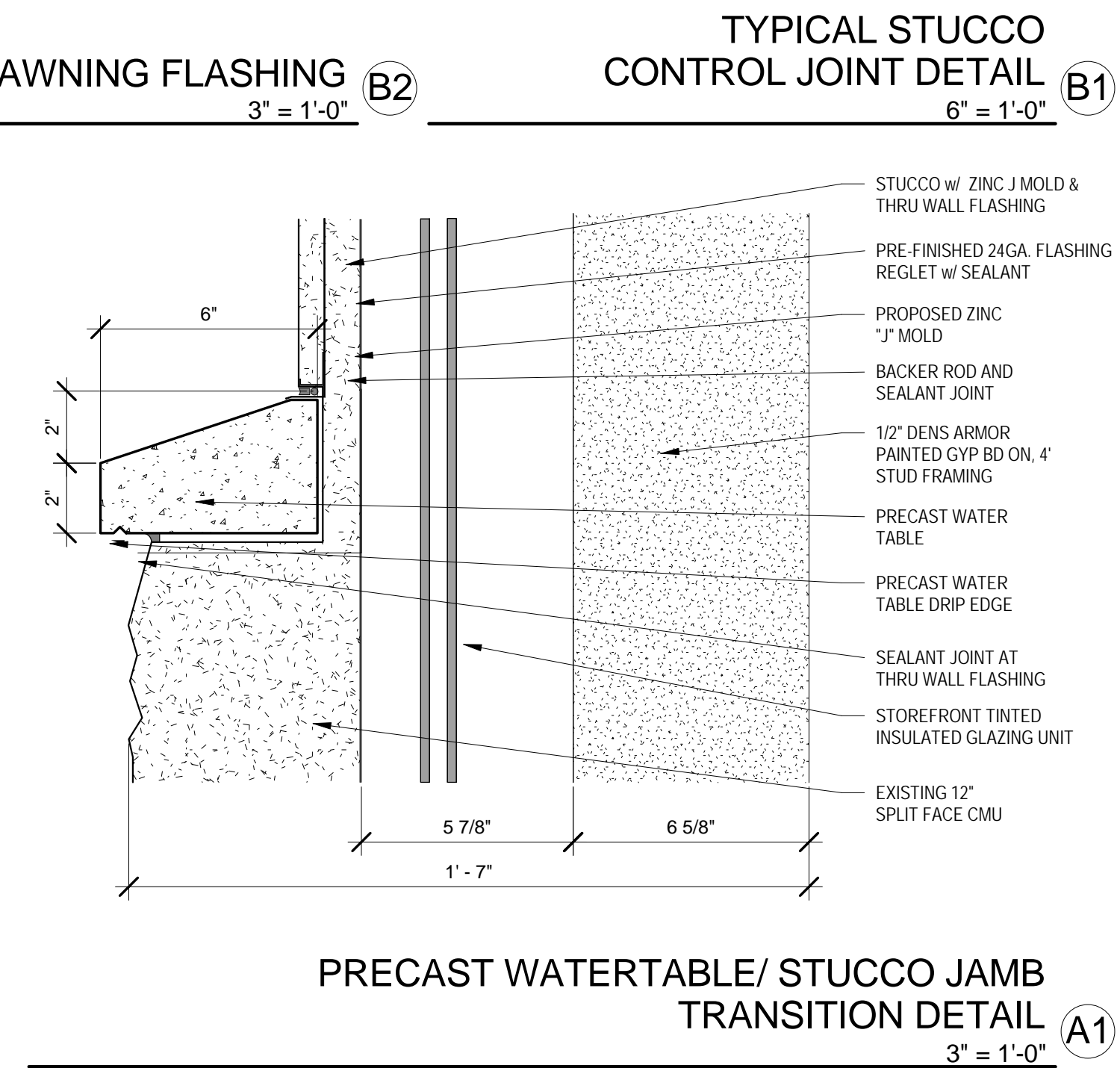
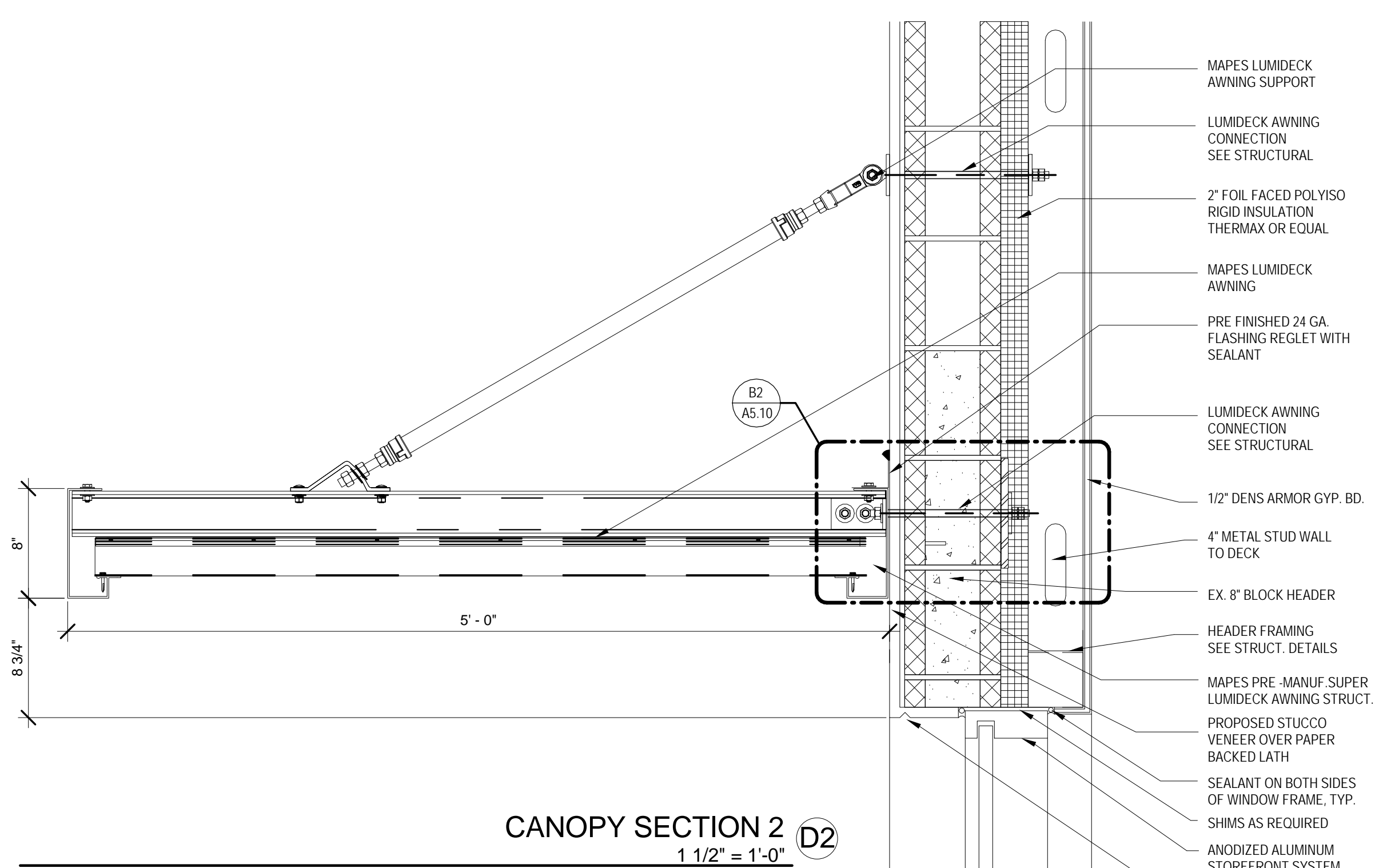
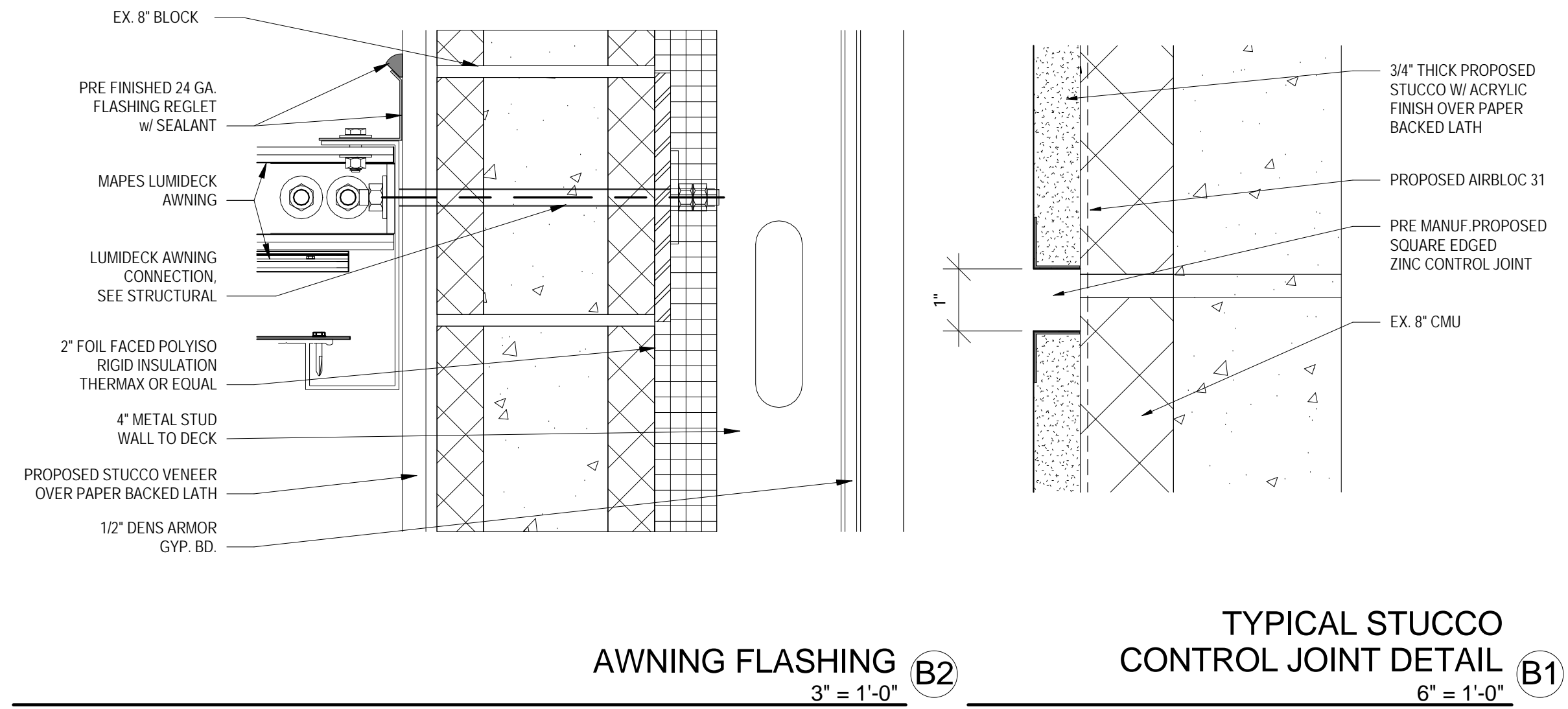
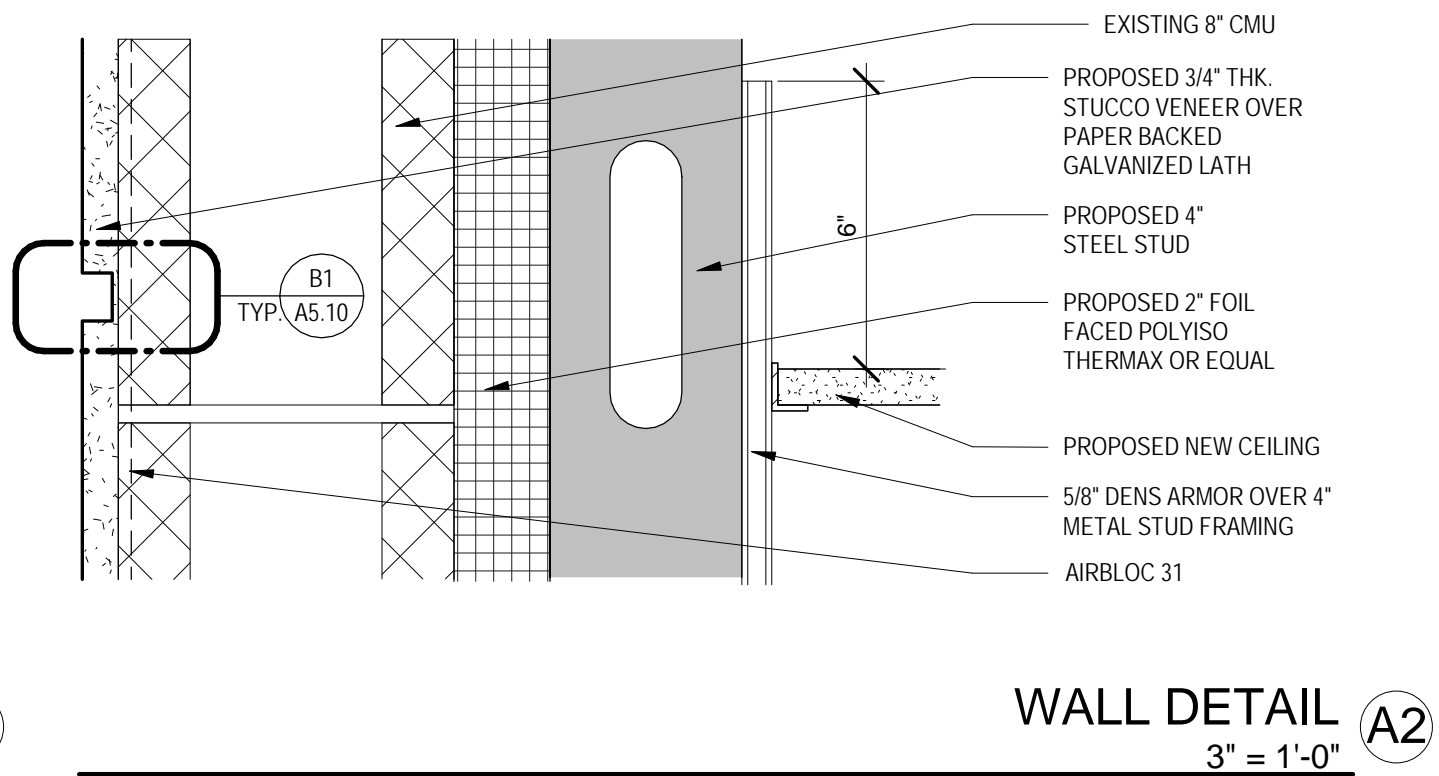
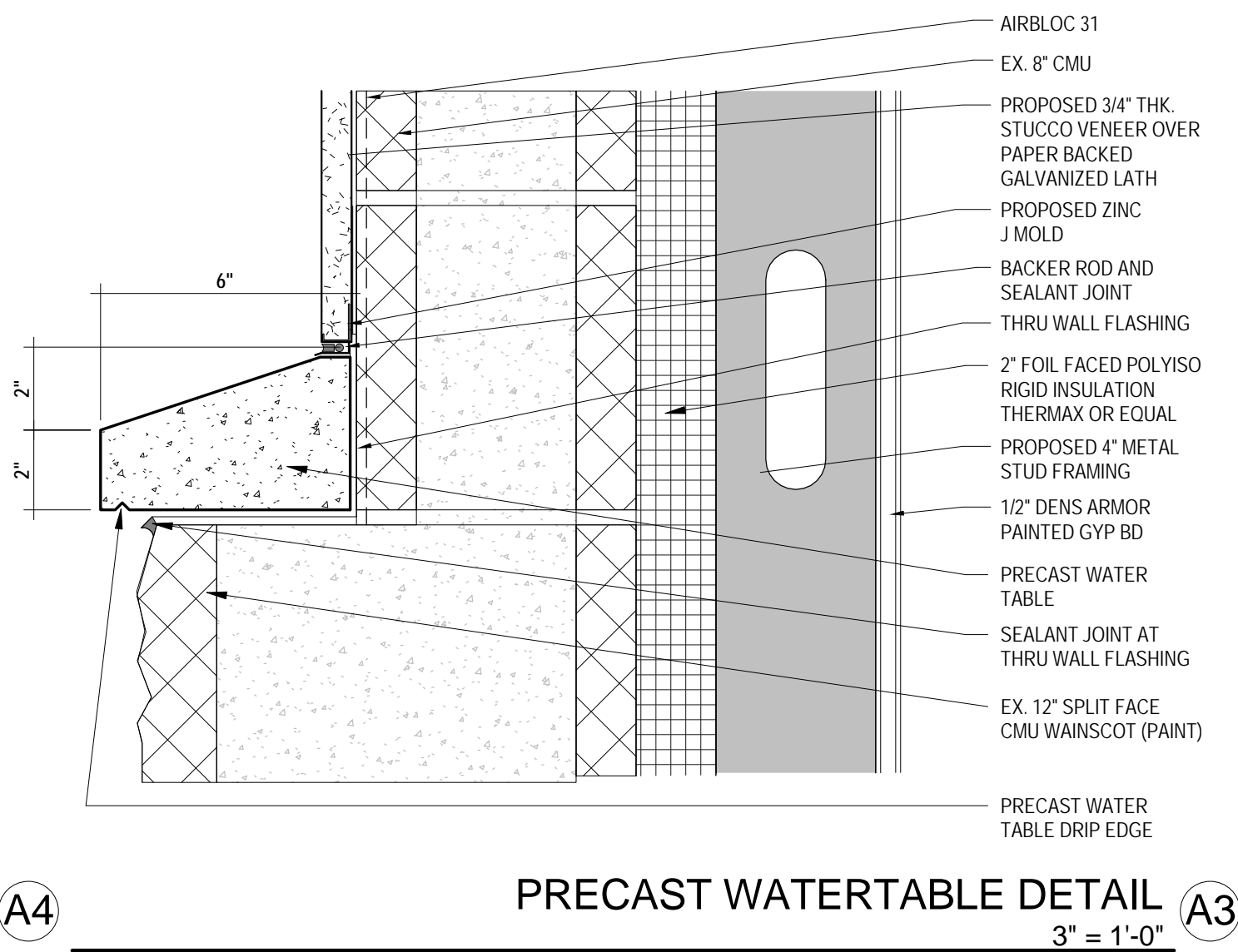
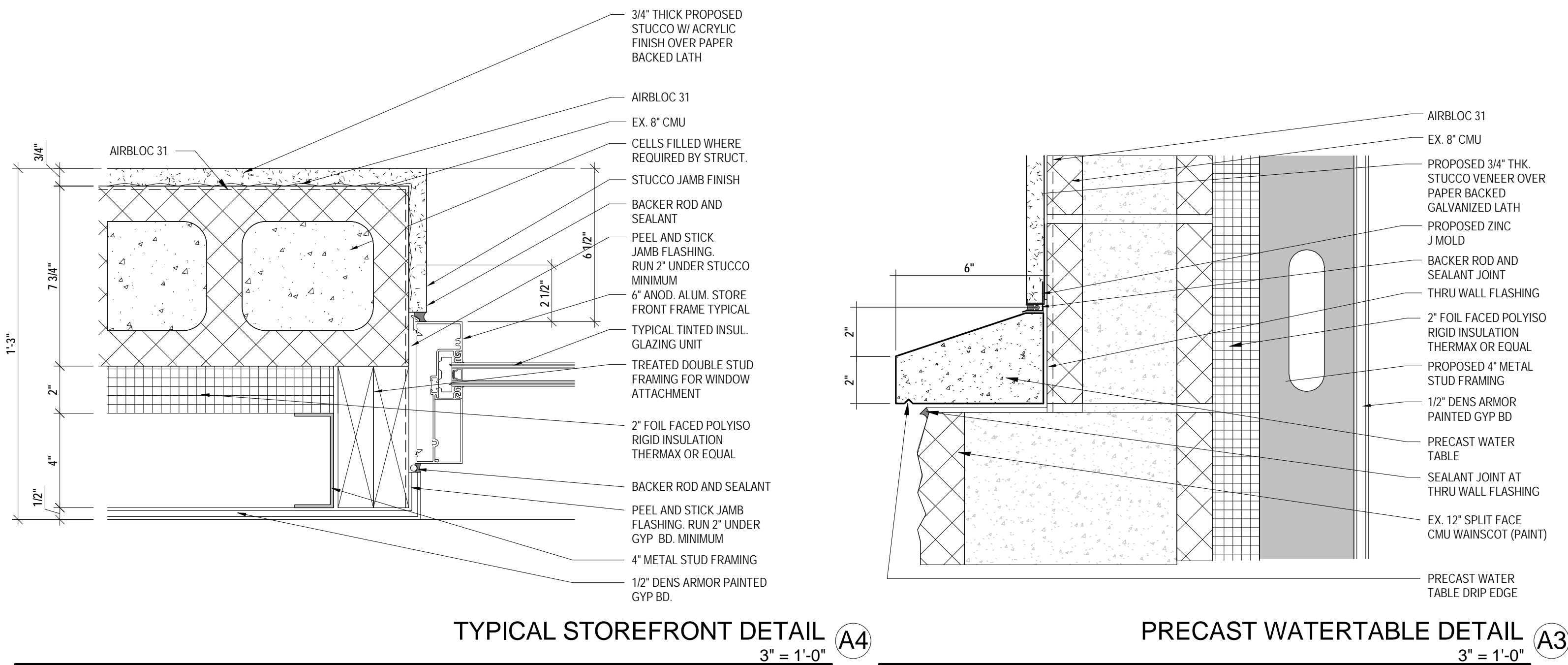
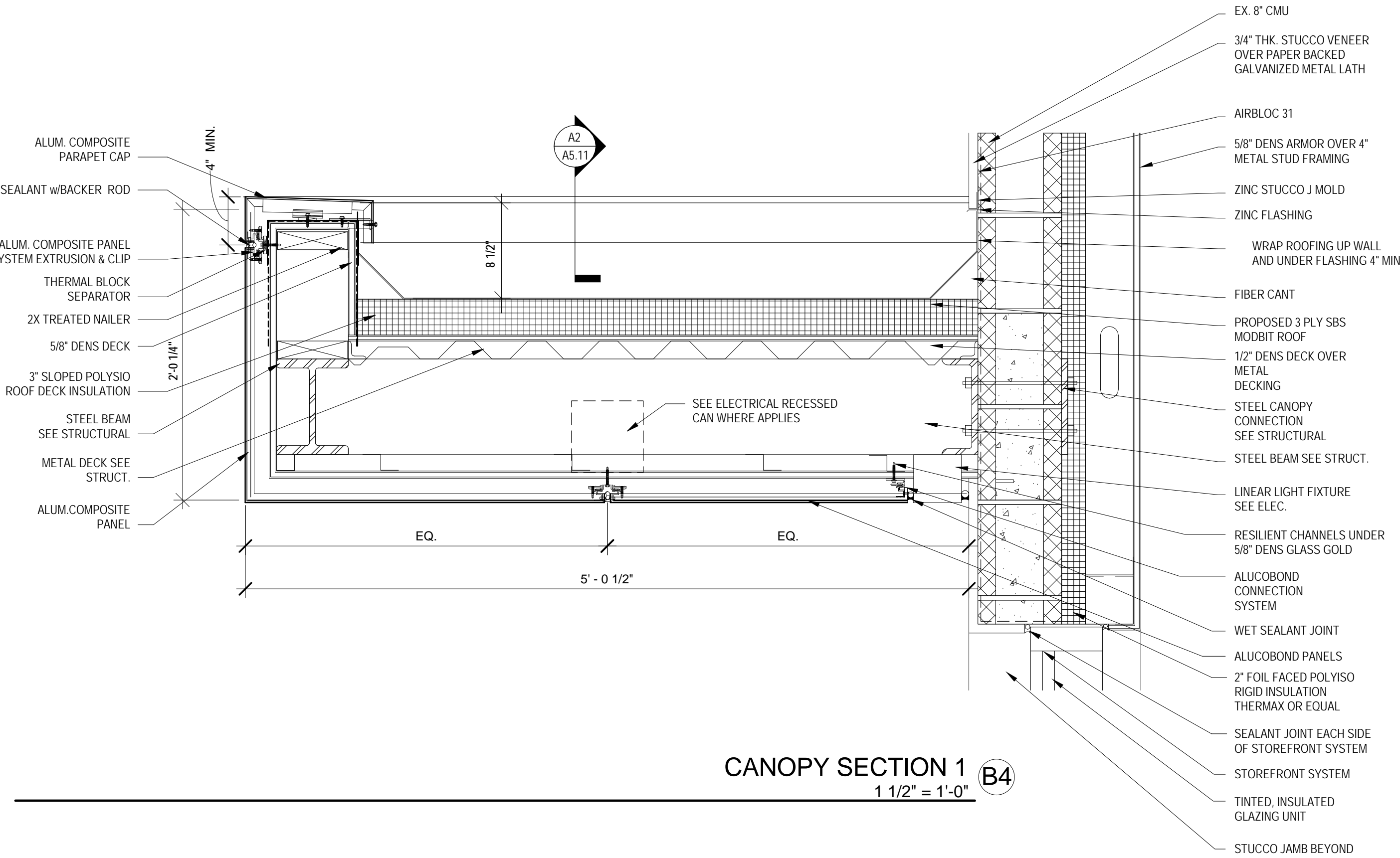
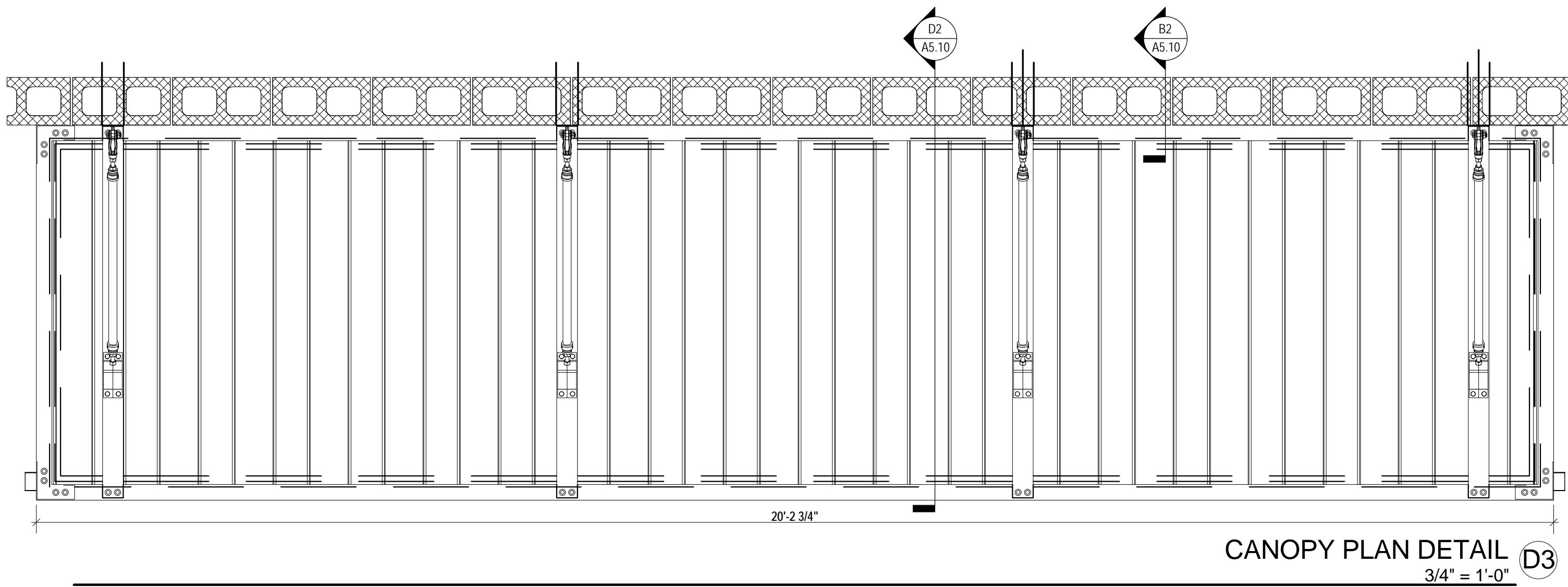
ACCESS LADDER SECTION DETAIL **A4**
3/4" = 1'-0"

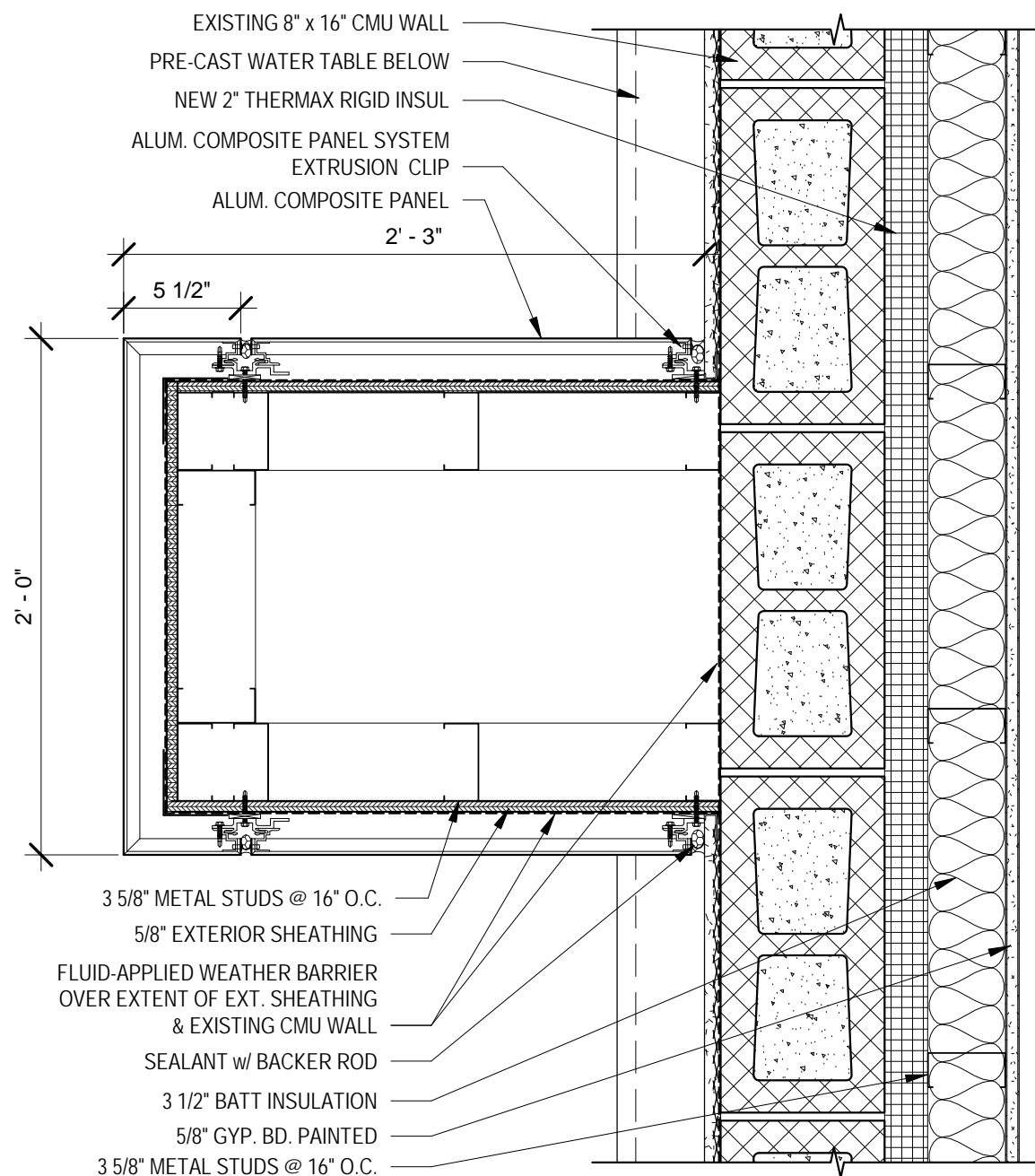


TYPICAL WEST WALL THRU OPEING **A3**
3/4" = 1'-0"

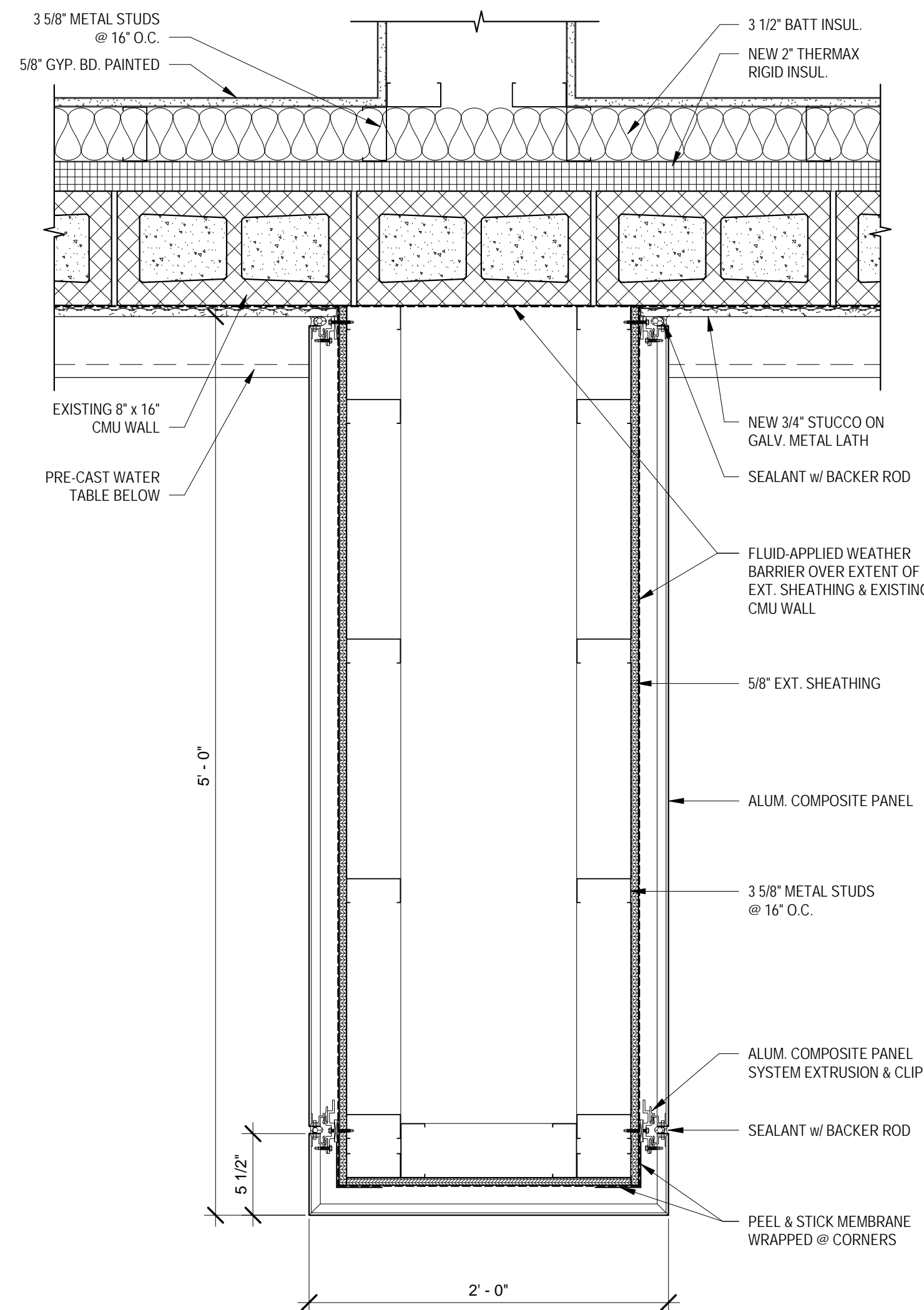


TYP. TALL WEST WALL THRU OPENING 2 **A1**
3/4" = 1'-0"

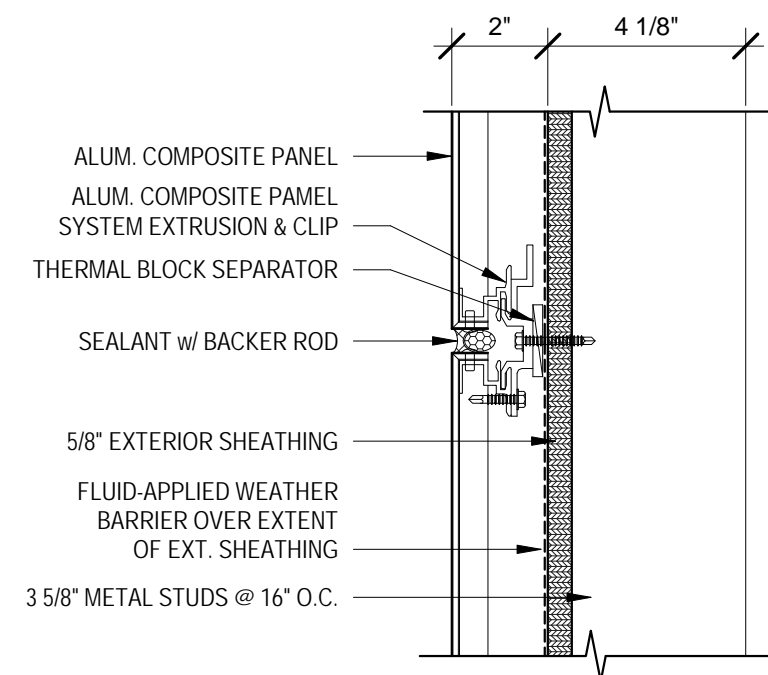




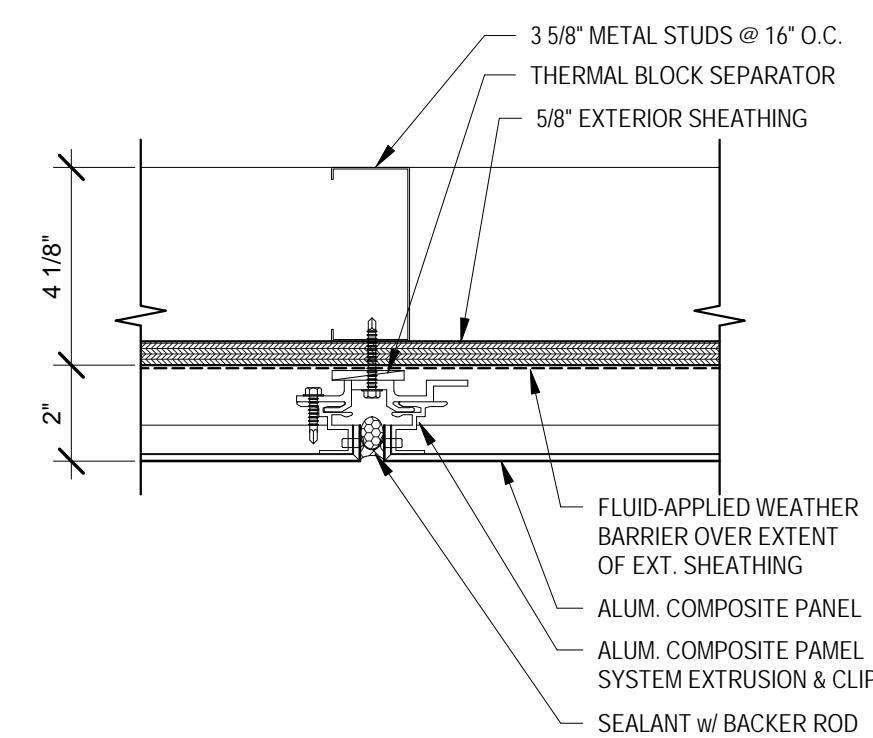
ALUM COMPOSITE - WING WALL 2 **C4**
1 1/2" = 1'-0"



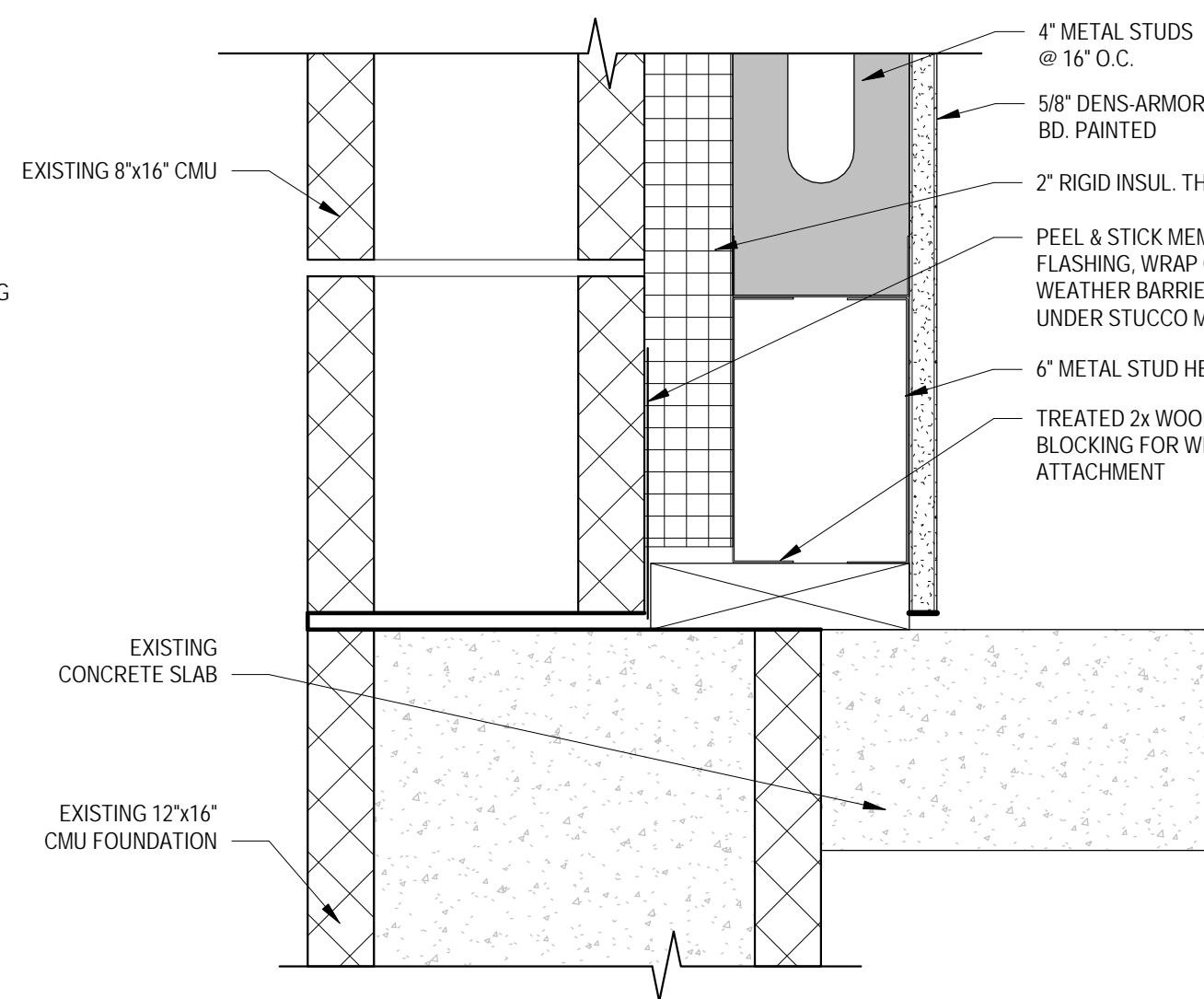
Alum Composite - Wing Wall **A4**
1 1/2" = 1'-0"



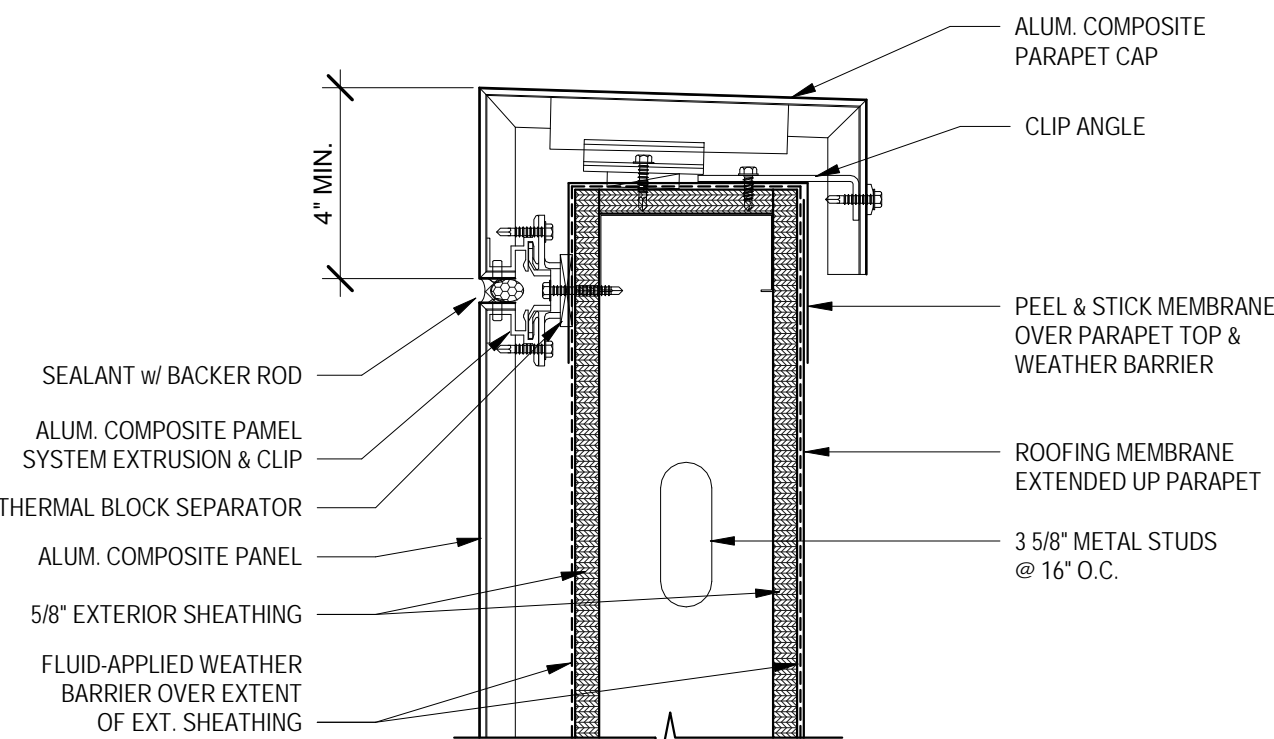
ALUM COMPOSITE - HORIZ JOINT DETAIL **D3**
3" = 1'-0"



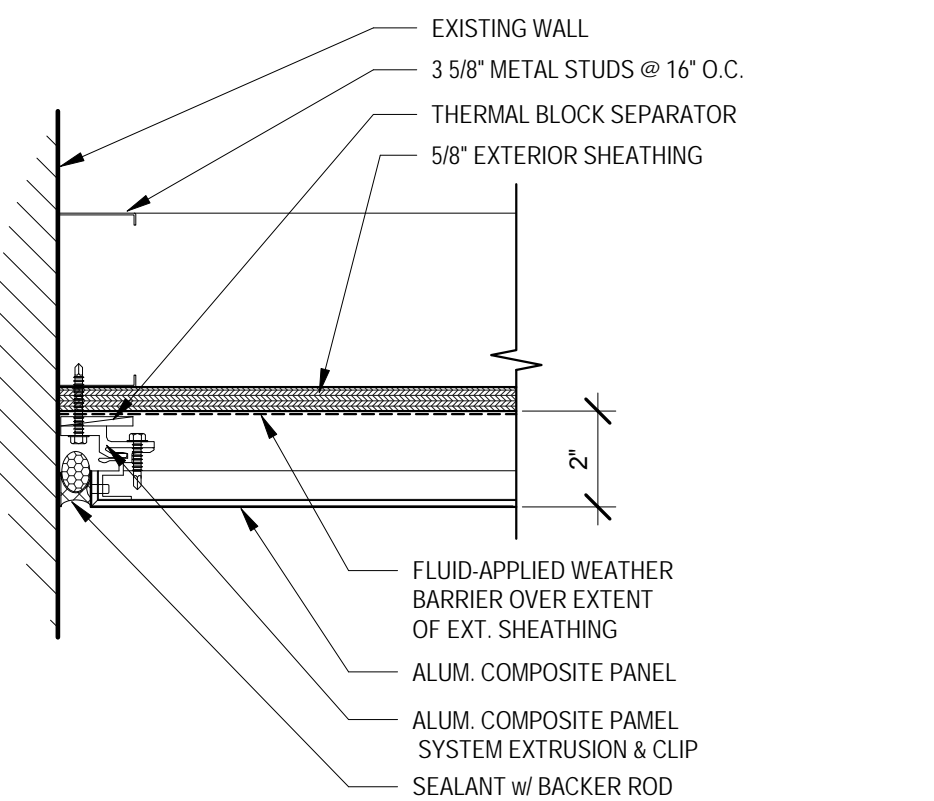
ALUM COMPOSITE - VERT JOINT DETAIL **C3**
3" = 1'-0"



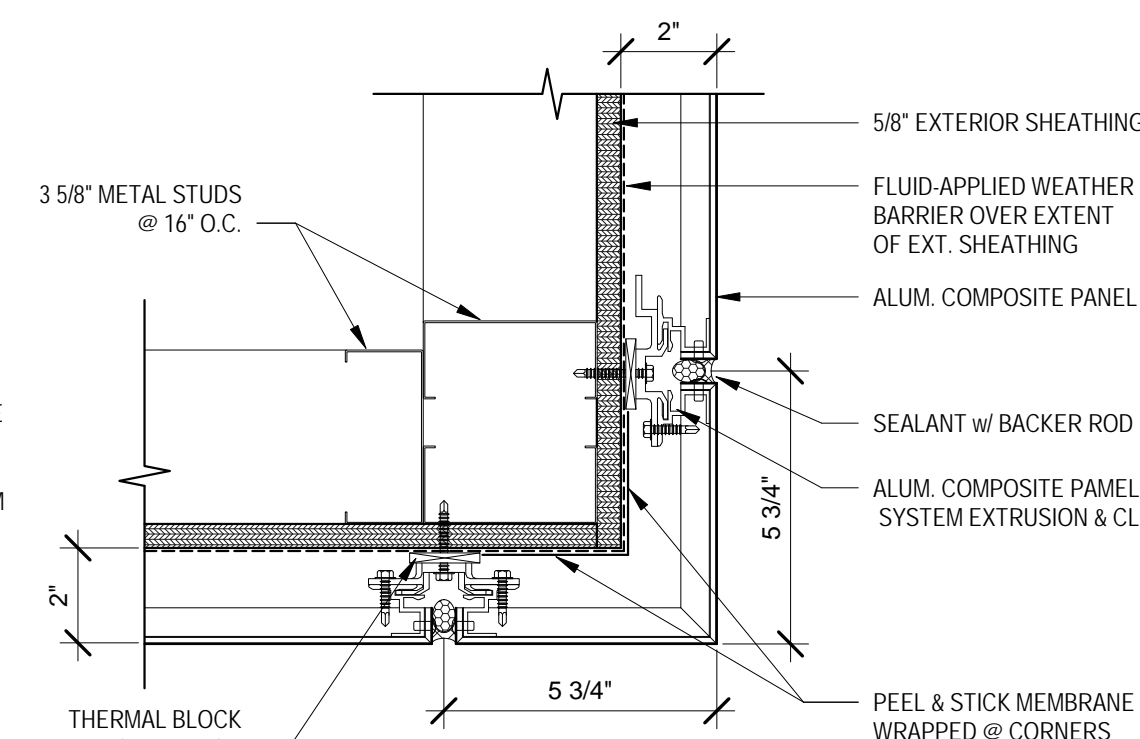
WALL BASE SECTION DETAIL **A3**
3" = 1'-0"



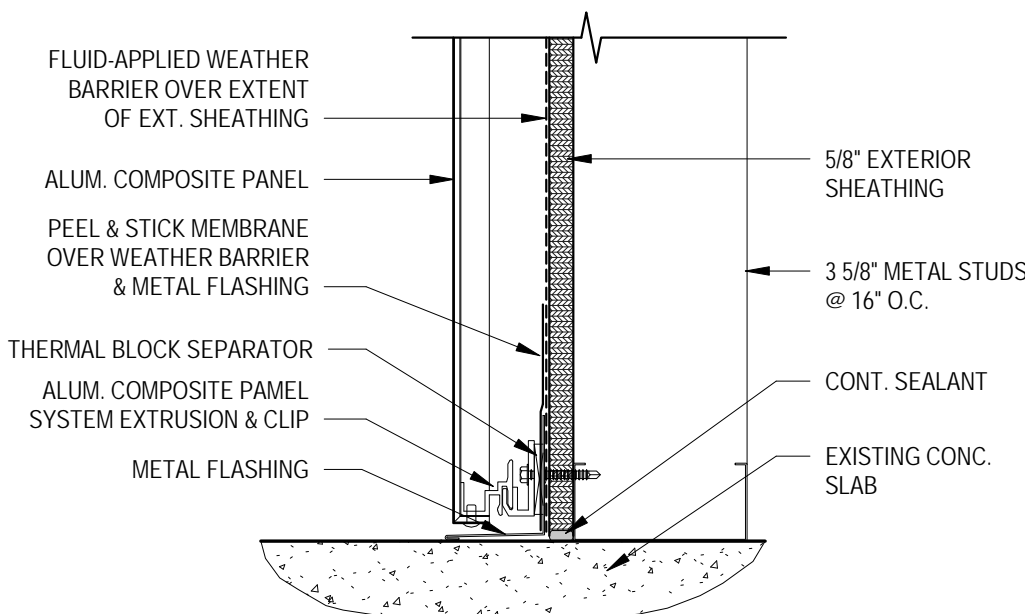
ALUM COMPOSITE - PARAPET DETAIL **D2**
3" = 1'-0"



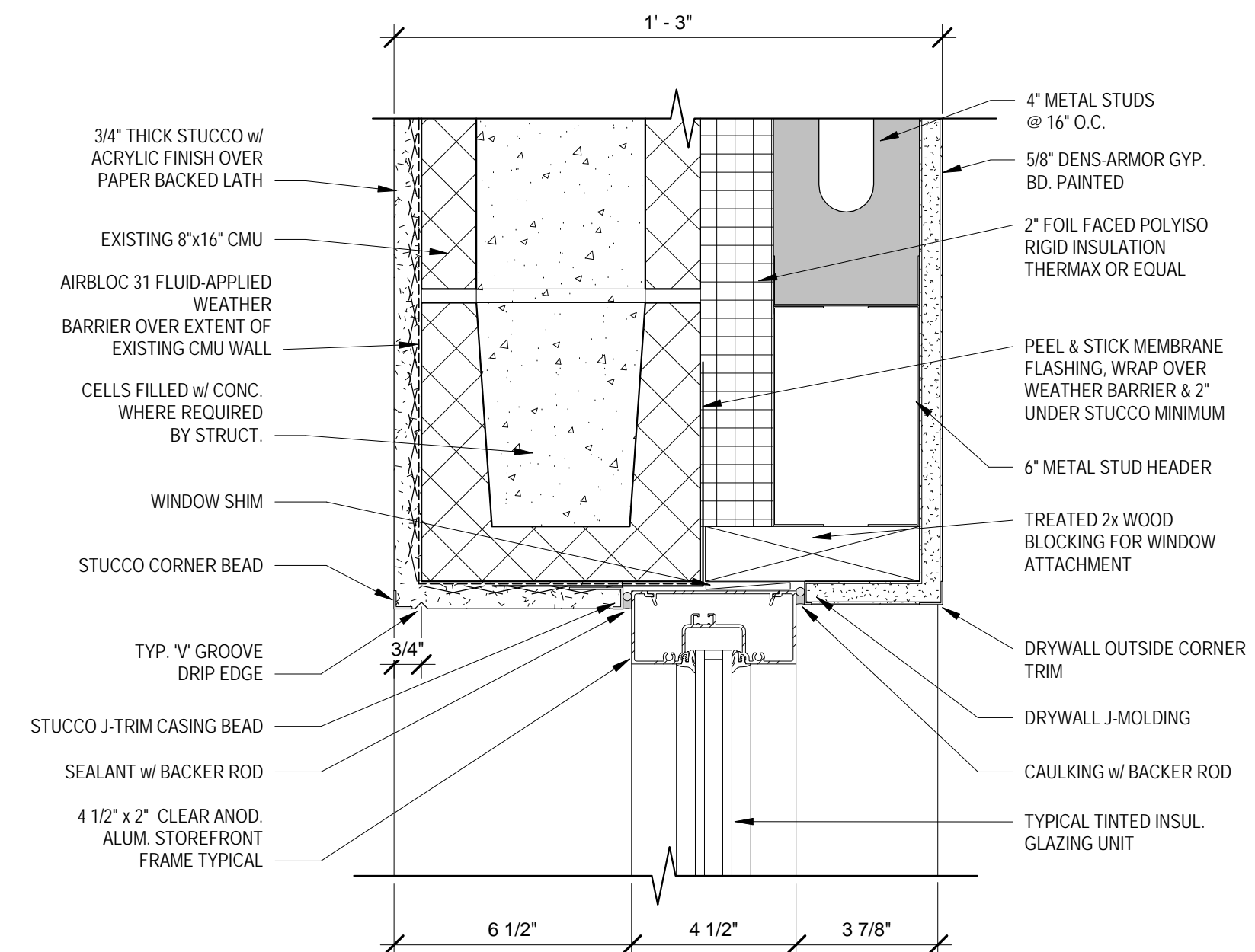
ALUM COMPOSITE - END WALL DETAIL **C2**
3" = 1'-0"



ALUM COMPOSITE - CORNER DETAIL **B2**
3" = 1'-0"

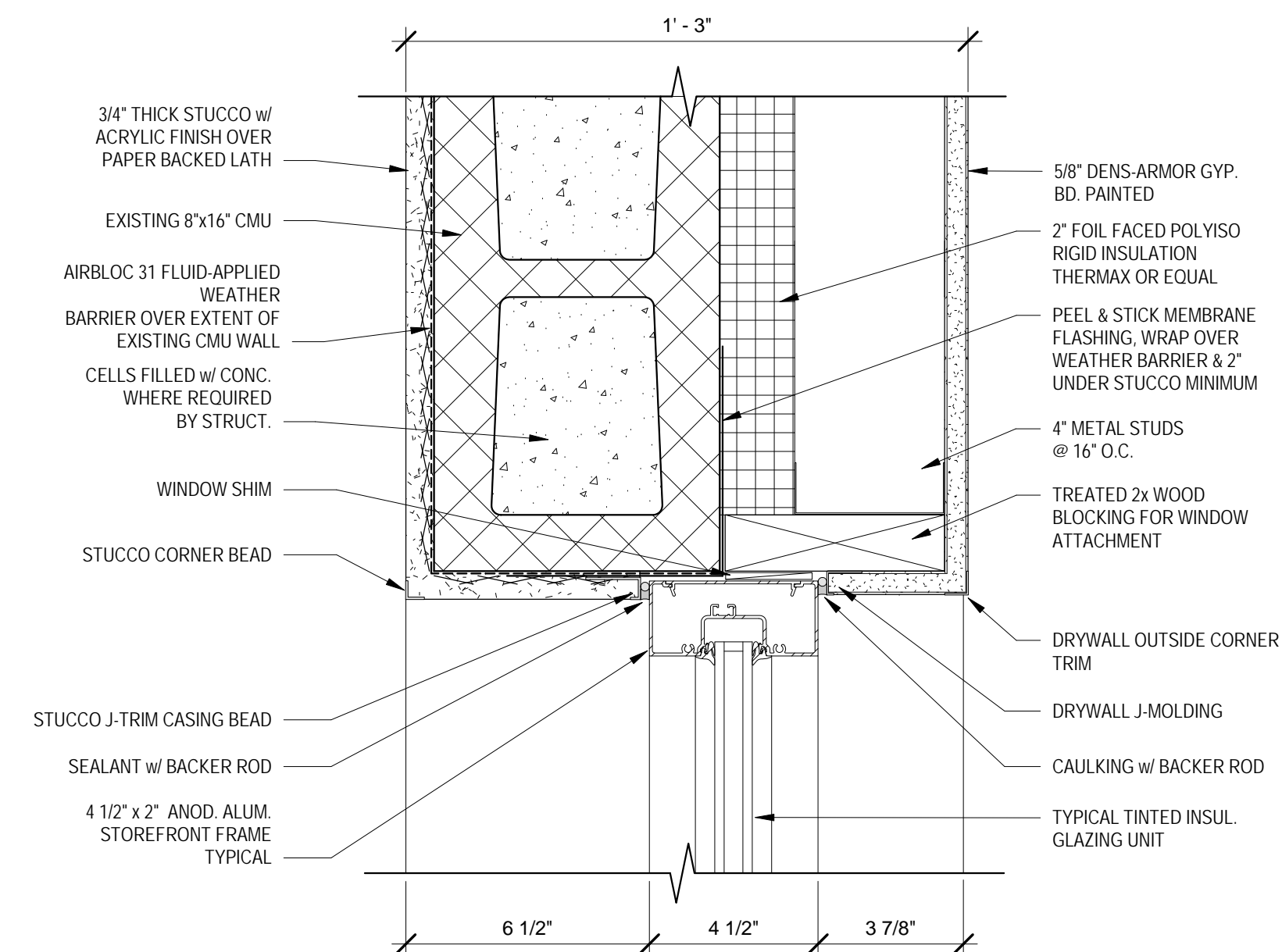


ALUM COMPOSITE - BASE DETAIL **A2**
3" = 1'-0"



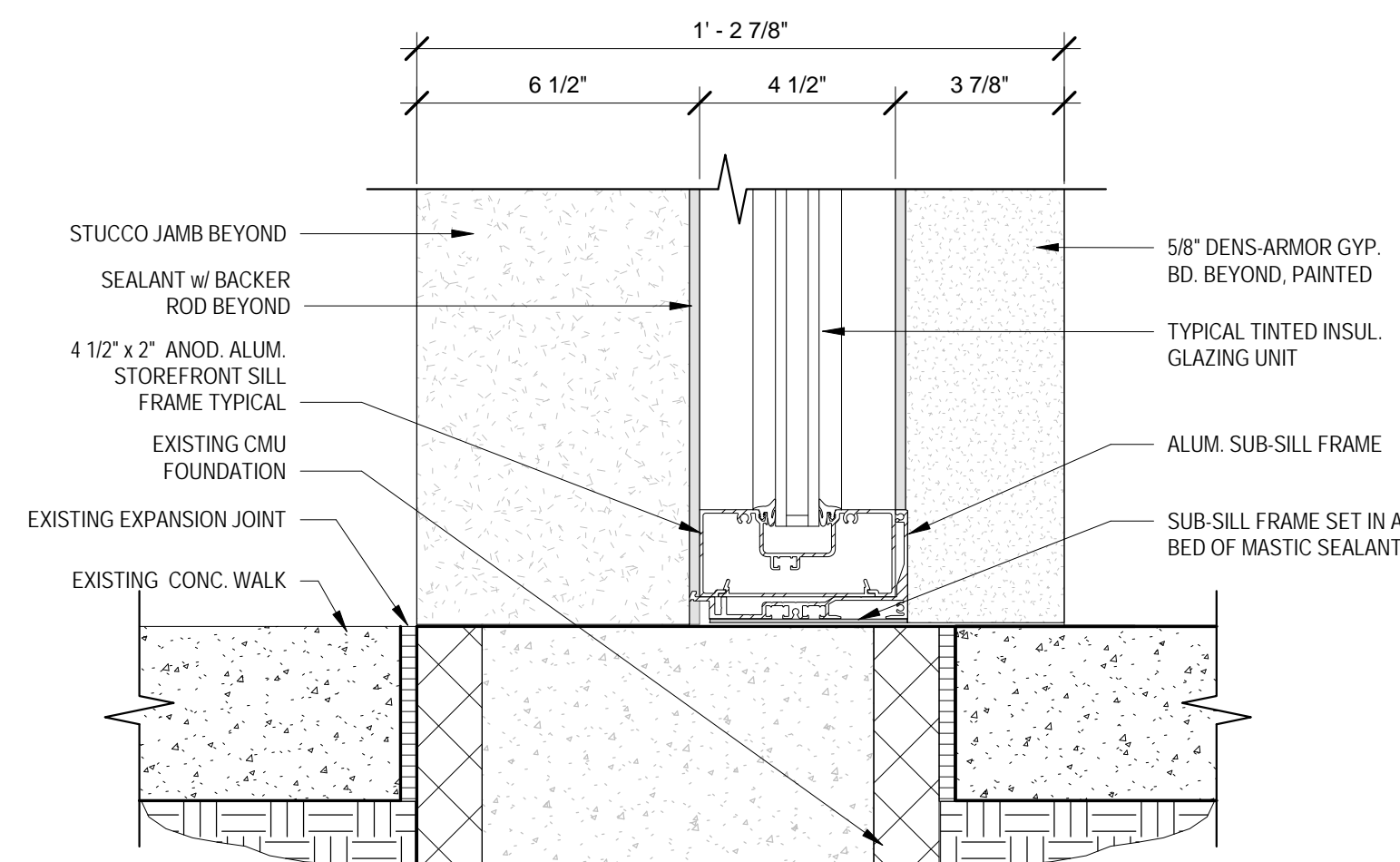
NOTE:
BLOCK PAINTED @ REAR EXTERIOR WALL WINDOWS. NO STUCCO

TYP. WINDOW HEAD DETAIL **D1**
3" = 1'-0"



NOTE:
BLOCK PAINTED @ REAR EXTERIOR WALL WINDOWS. NO STUCCO

WINDOW JAMB DETAIL **B1**
3" = 1'-0"

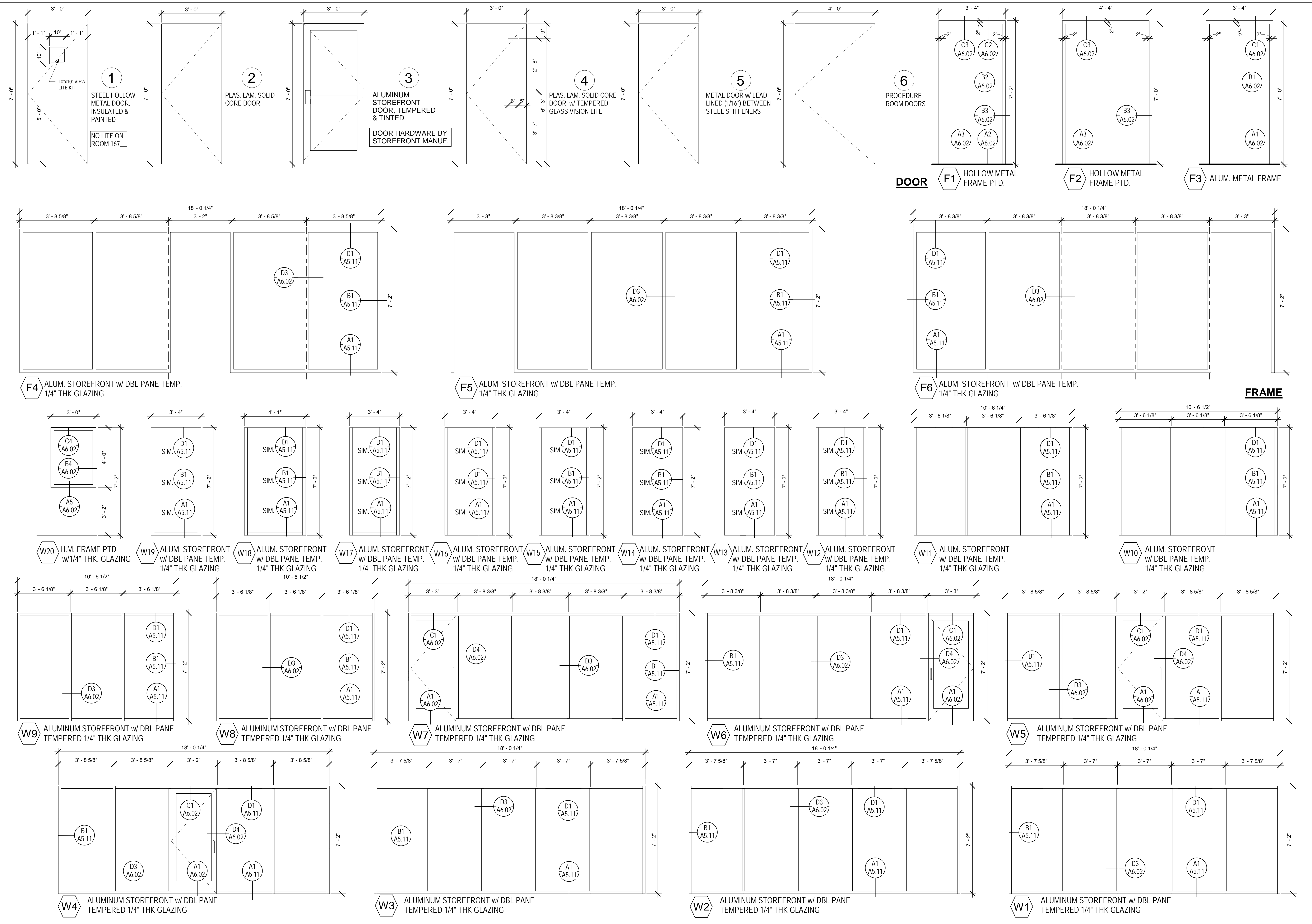


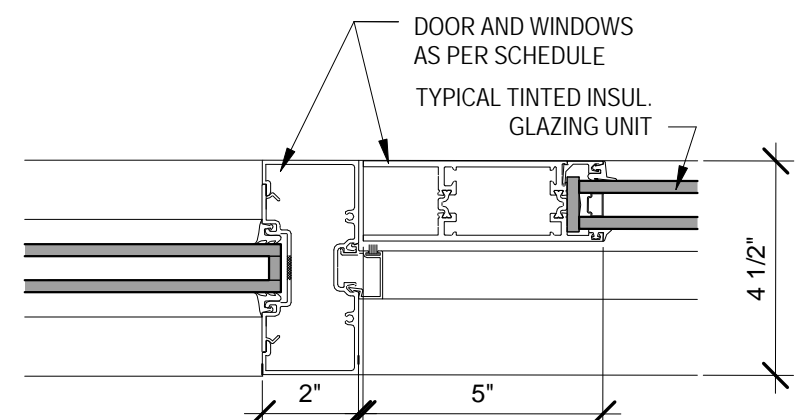
NOTE:
BLOCK PAINTED @ REAR EXTERIOR WALL WINDOWS. NO STUCCO

WINDOW SILL DETAIL **A1**
3" = 1'-0"

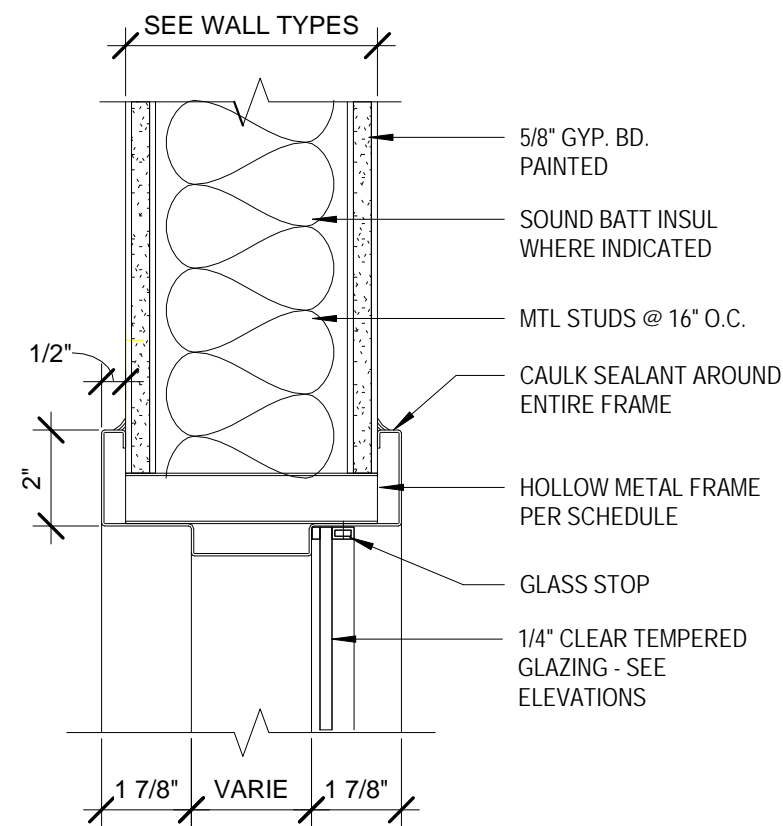
| Door Schedule | | | | | | | | | | | | | | | | |
|---------------|----------------------------|------|-----------|---------|---------|------------|-----------------|-------------|--------|------------|-------------|--------------|----------------|---------------|-------|--------------|
| Mark | Room Name | Type | DOOR | | | | | Fire Rating | FRAME | | | | | Hardw are Set | Notes | |
| | | | Leaf | Width | Height | Thick ness | Door Material | | Finish | Frame Type | Rough Width | Rough Height | Frame Material | | | Frame Finish |
| 100.1A | PEDI-CARE WAITING | 3 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | ALUM / GLAZI NG | | F3 | 3' - 4" | 7' - 4" | ALUM. | CLEA R ANOD . | 1 | | |
| 100.1B | PEDI-CARE WAITING | 3 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | ALUM / GLAZI NG | | F3 | 3' - 4" | 7' - 4" | ALUM. | CLEA R ANOD . | 1 | | |
| 100.2 | PEDI-CARE RECEPTION | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 2 | | |
| 101 | SHARED WORKSTATION S | 4 | SIN GLE | 3' - 0" | 7' - 0" | 2" | S.C. WOOD | PLAS. LAM. | F1 | | | HOL MTL | PAINT ED | 3 | | |
| 102 | VITALS 1 | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 6 | | |
| 103 | VITALS 2 | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 6 | | |
| 104A | ADULT PRIMARY CARE WAITING | 3 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | ALUM / GLAZI NG | | F6 | 3' - 4" | 7' - 2" | ALUM. | CLEA R ANOD . | 1 | | |
| 104B | ADULT PRIMARY CARE WAITING | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 5 | | |
| 105A | CORRIDOR | 3 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | ALUM / GLAZI NG | | F4 | 3' - 4" | 7' - 2" | ALUM. | CLEA R ANOD . | 1 | | |
| 105B | CORRIDOR | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 5 | | |
| 106 | WOMENS | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 6 | | |
| 107 | FIN. ADV. 1 | 4 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | F1 | 3' - 4" | 7' - 4" | HOL MTL | PAINT ED | 7 | | |
| 108 | ADULT NURSE'S STATION | 0 | OPE NIN G | 0" | 0" | | | | | 3' - 4" | 7' - 0" | | | N/A | | |
| 109 | ADULT EXAM 1 | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 8 | | |
| 110 | MENS | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 6 | | |
| 111 | SURGERY EXAM 10 | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 8 | | |
| 112 | SHARED PROCEDURE 1 | 6 | SIN GLE | 4' - 0" | 7' - 0" | 2" | S.C. WOOD | PLAS. LAM. | F2 | | | HOL MTL | PAINT ED | 8 | | |
| 114 | SHARED PROCEDURE 2 | 6 | SIN GLE | 4' - 0" | 7' - 0" | 2" | S.C. WOOD | PLAS. LAM. | F2 | | | HOL MTL | PAINT ED | 8 | | |
| 115 | WORK STATIONS | 4 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | F1 | 3' - 4" | 7' - 4" | HOL MTL | PAINT ED | 7 | | |
| 116A | WAITING | 3 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | ALUM / GLAZI NG | | F4 | 3' - 4" | 7' - 2" | ALUM. | CLEA R ANOD . | 1 | | |
| 116B | WAITING | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 5 | | |
| 116C | WAITING | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 5 | | |
| 116D | WAITING | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 5 | | |
| 117 | RECEPTION | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 7 | | |
| 119 | DR. OFFICE | 4 | SIN GLE | 3' - 0" | 7' - 0" | 2" | S.C. WOOD | PLAS. LAM. | F1 | | | HOL MTL | PAINT ED | 7 | | |
| 120 | X-RAY CENTER | 6 | SIN GLE | 4' - 0" | 6' - 8" | 2" | S.C. WOOD | PLAS. LAM. | F2 | | | HOL MTL | PAINT ED | 19 | | |
| 121 | ULTRA SOUND | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 8 | | |
| 122 | SURGERY EXAM 3 | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 8 | | |
| 123 | SURGERY EXAM 4 | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 8 | | |
| 124 | SURGERY EXAM 5 | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 8 | | |
| 125 | EXAM 6 AUDIOLOGY BOOTH | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 8 | | |
| 126 | CORRIDOR 126 | 1 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | INSUL H.M. | | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 9 | | |
| 127 | PATIENT RESTROOM | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 10 | | |
| 128 | STAFF RESTROOM | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 10 | | |
| 129 | SURGERY EXAM 2 | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 8 | | |
| 130 | SURGERY EXAM 1 | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 8 | | |
| 131 | MEDS | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 11 | | |
| 133 | LAB | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 12 | | |
| 134 | CUSTODIAN | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 13 | | |
| 136 | STAFF LOUNGE | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 8 | | |

| Door Schedule | | | | | | | | | | | | | | | | |
|---------------|-------------------|------|---------|---------|---------|------------|---------------|-------------|--------|------------|-------------|--------------|----------------|---------------|-------|--------------|
| Mark | Room Name | Type | DOOR | | | | | Fire Rating | FRAME | | | | | Hardw are Set | Notes | |
| | | | Leaf | Width | Height | Thick ness | Door Material | | Finish | Frame Type | Rough Width | Rough Height | Frame Material | | | Frame Finish |
| 137 | SHARED EXAM OR 11 | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 8 | |
| 138 | STORAGE | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 13 | |
| 139 | CLEAN UTILITY | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 14 | |
| 140 | SOILED UTILITY | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 14 | |
| 141 | CORRIDOR 141 | 1 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | INSUL H.M. | PTD. | | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 9 | |
| 142 | SURGERY EXAM 9 | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 8 | |
| 143 | SURGERY EXAM 8 | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 8 | |
| 144 | SURGERY EXAM 7 | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 8 | |
| 145 | ADULT EXAM 6 | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 8 | |
| 146 | ADULT EXAM 5 | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 8 | |
| 147 | ADULT EXAM 4 | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 8 | |
| 148 | ADULT EXAM 2 | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | 8 | |
| 149 | ADULT EXAM 3 | 2 | SIN GLE | 3' - 0" | 7' - 0" | 1 3/4" | S.C. WOOD | PLAS. LAM. | | F1 | 3' - 4" | 7' - 2" | HOL MTL | PAINT ED | | |

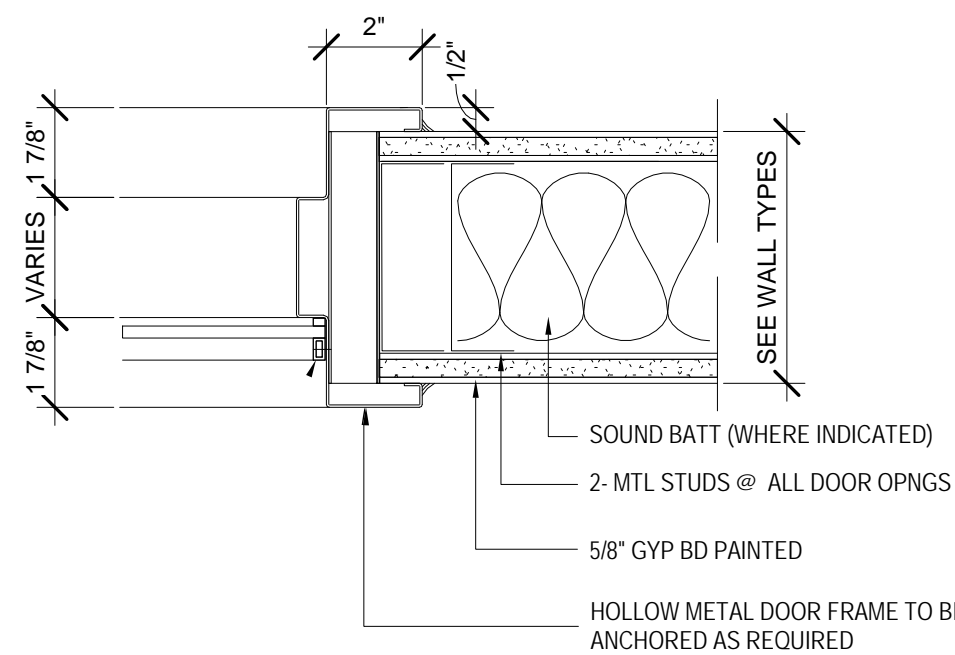




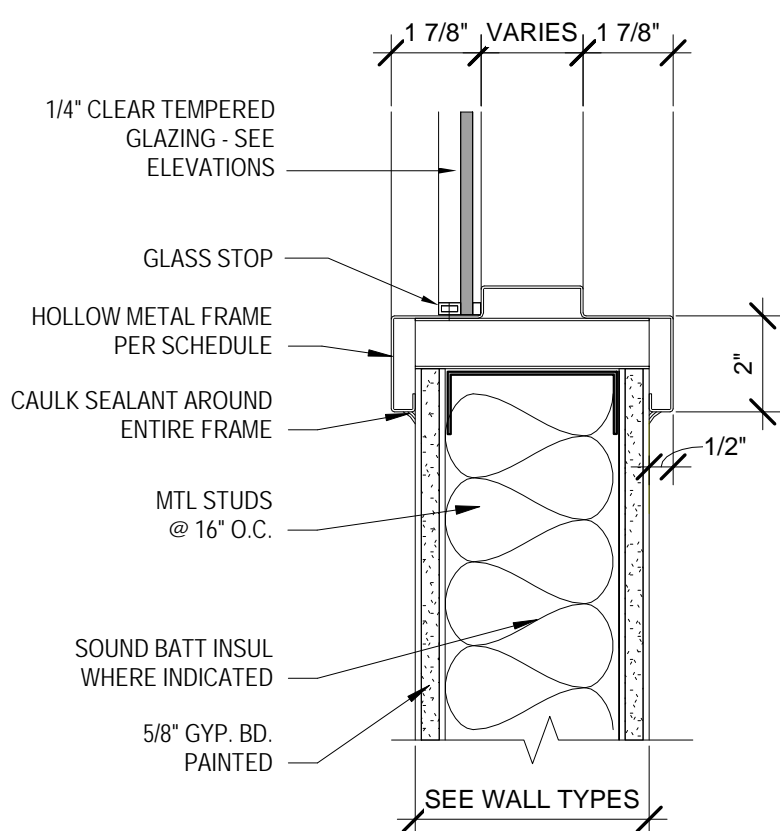
STOREFRONT-JAMB/WINDOW DETAIL 7
3" = 1'-0"



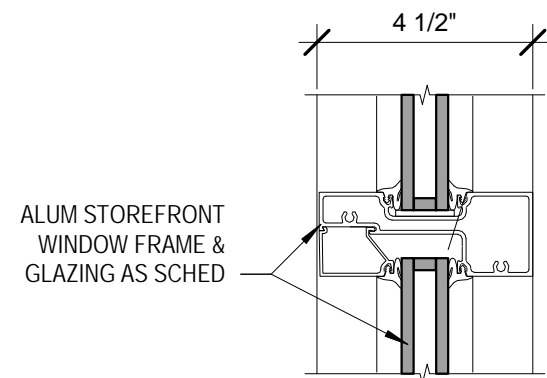
WINDOW-INTERIOR HEAD WINDOW DETAIL C4
3" = 1'-0"



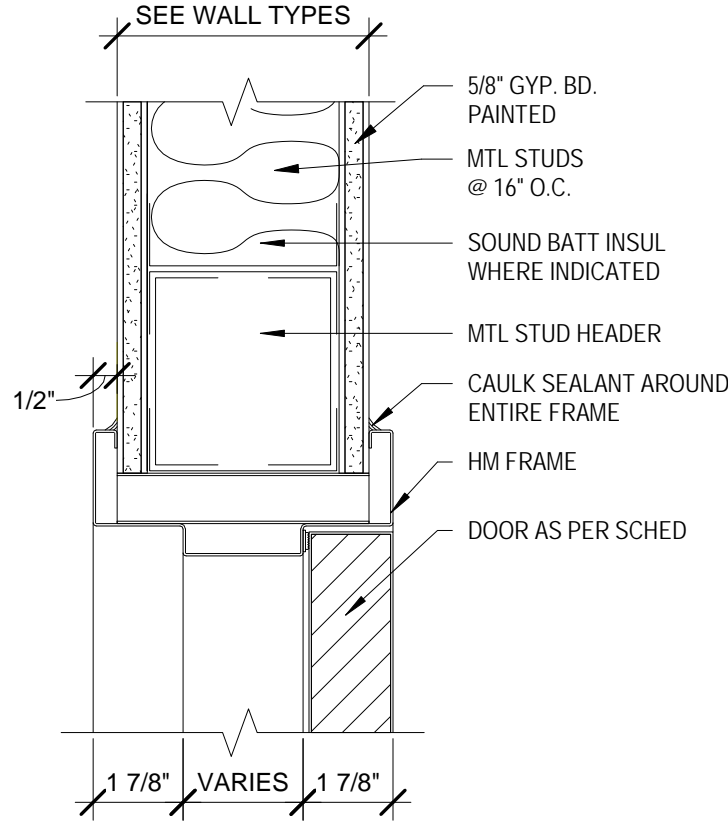
WINDOW-INTERIOR JAMB WINDOW DETAIL B4
3" = 1'-0"



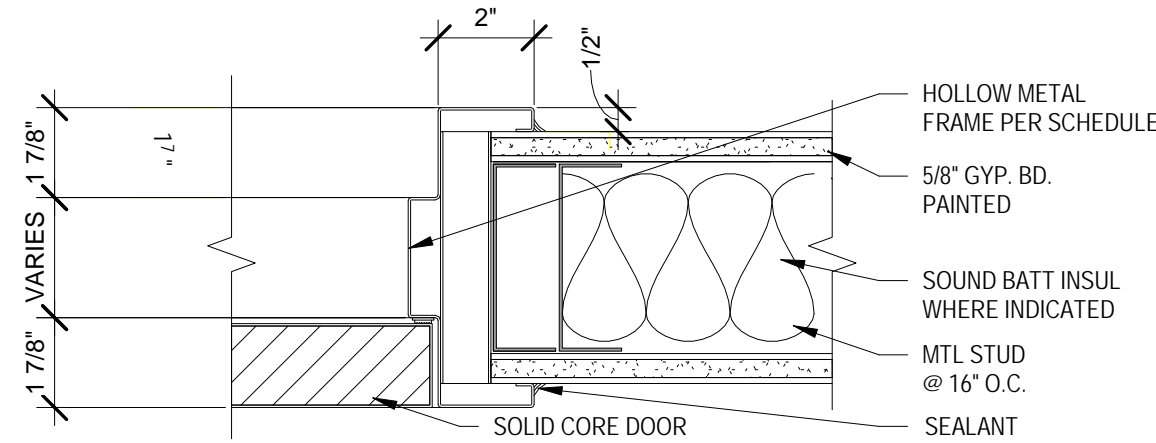
WINDOW-INTERIOR SILL WINDOW DETAIL A4
3" = 1'-0"



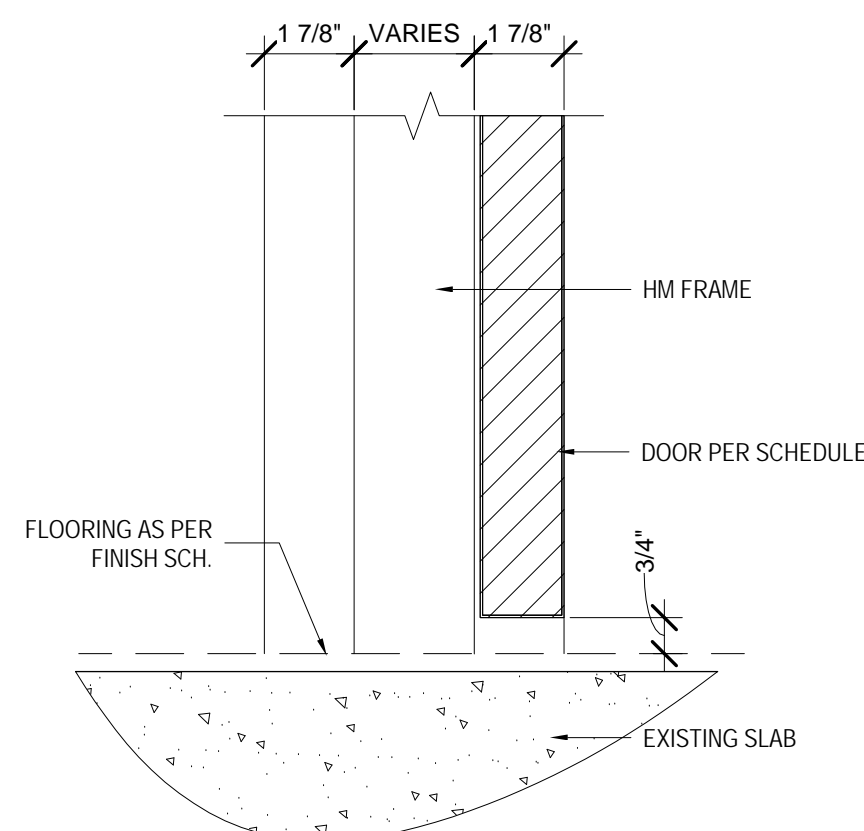
STOREFRONT-VERTICAL MULLION DETAIL D3
3" = 1'-0"



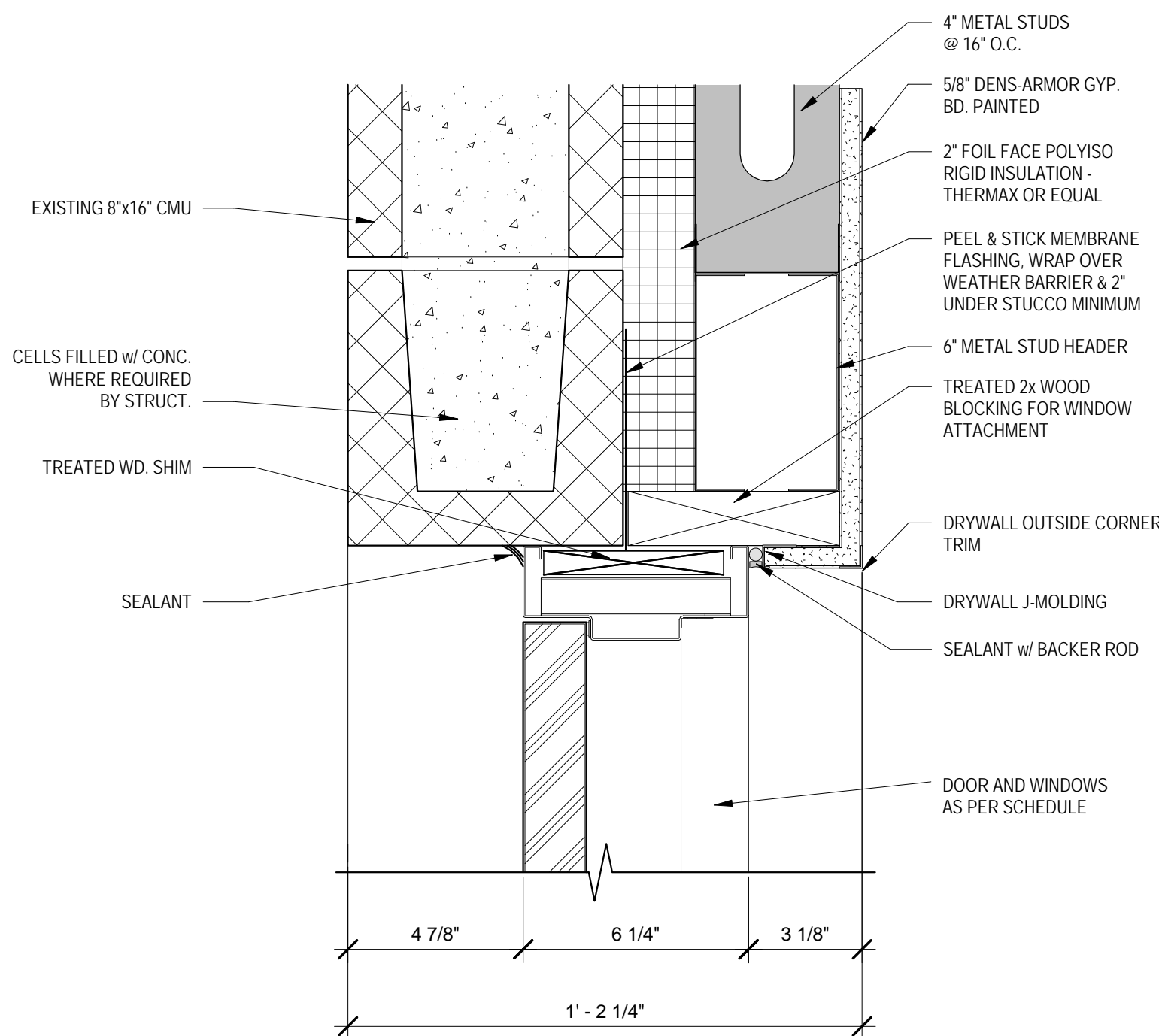
DOOR-INTERIOR DOOR HEAD DETAIL C3
3" = 1'-0"



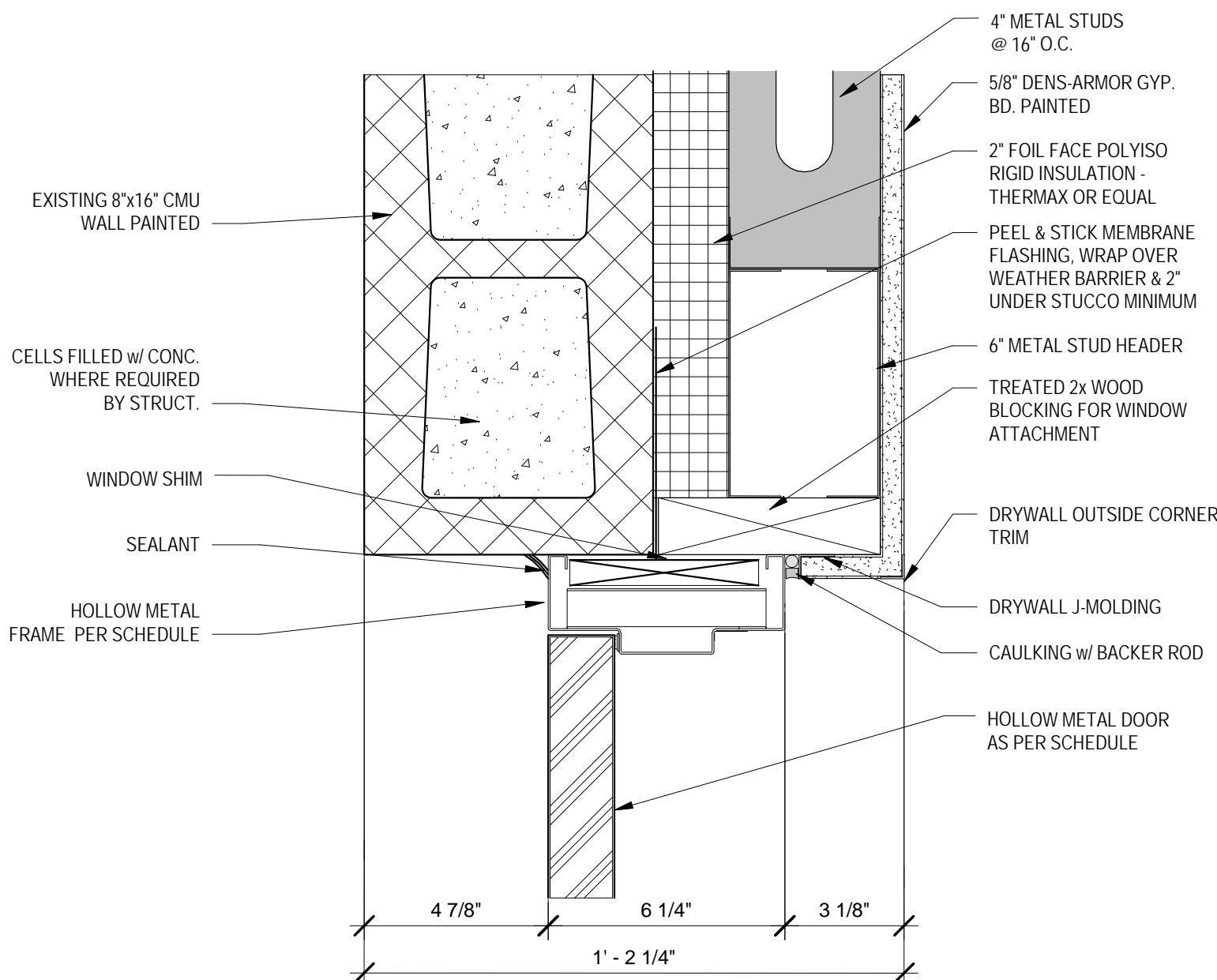
SOLID CORE DOOR-
INTERIOR DOOR JAMB DETAIL B3
3" = 1'-0"



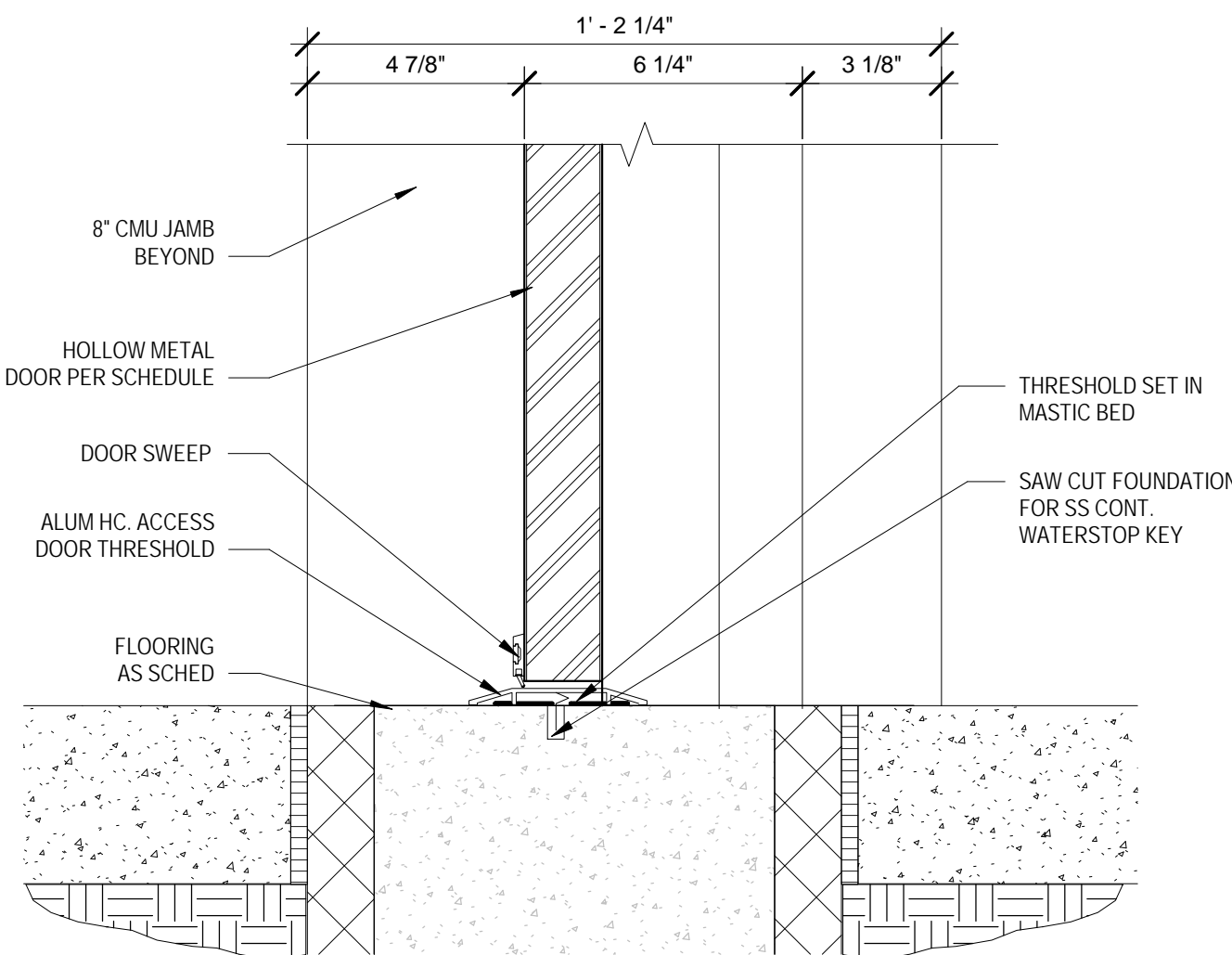
SOLID CORE DOOR-
INTERIOR THRESHOLD DETAIL A3
3" = 1'-0"



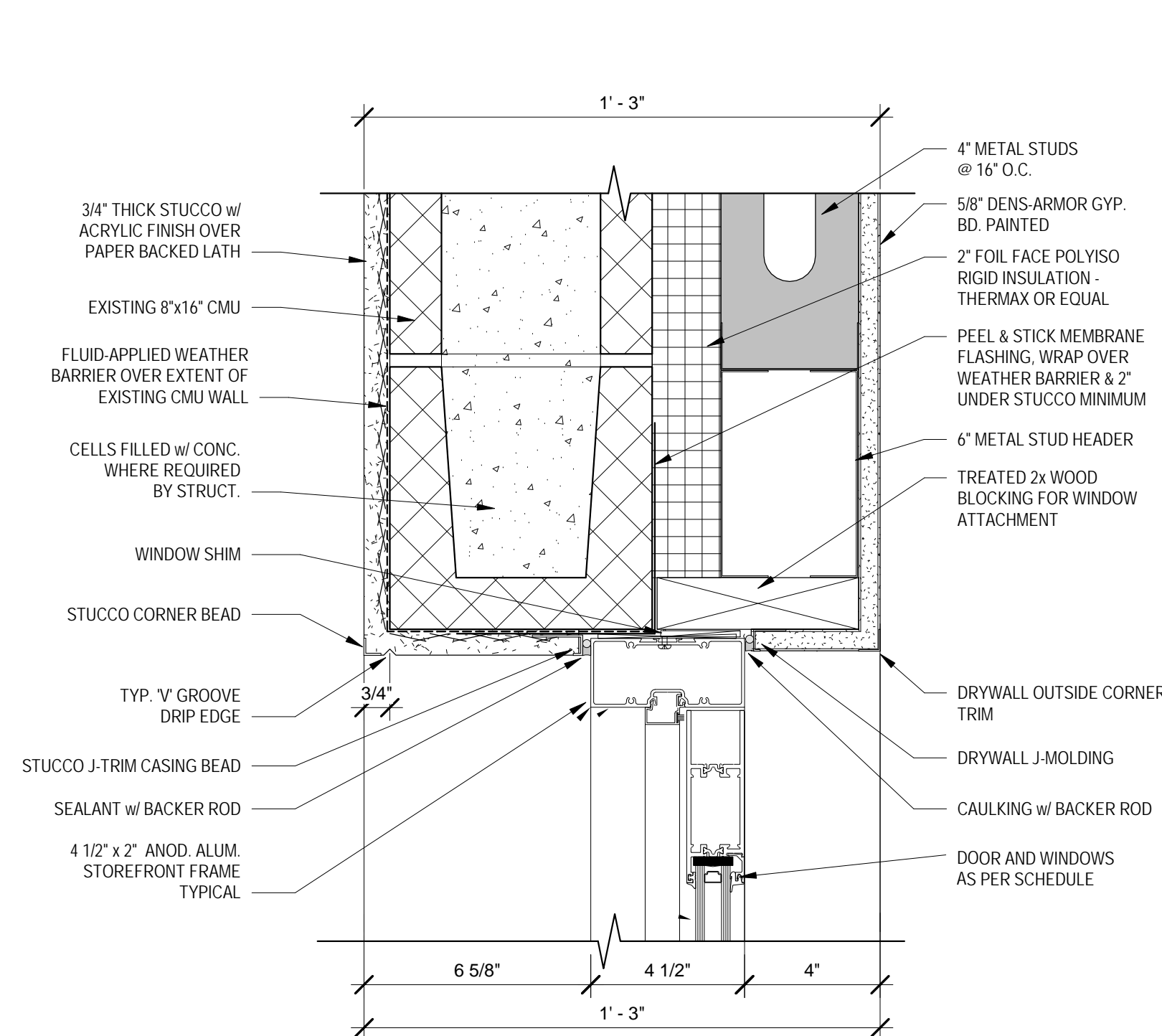
HOLLOW METAL DOOR - HEAD DETAIL C2
3" = 1'-0"



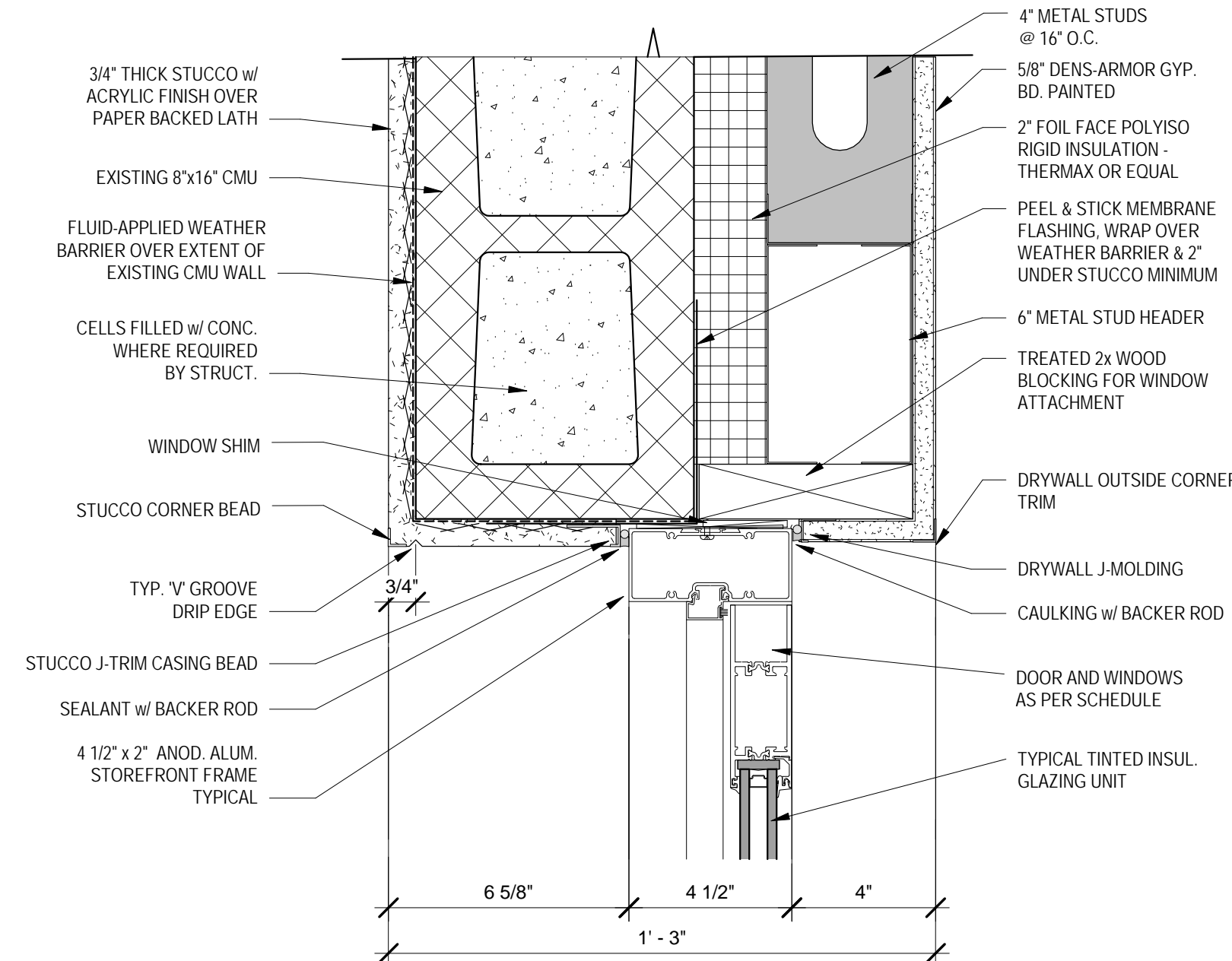
HOLLOW METAL DOOR - WALL JAMB DETAIL B2
3" = 1'-0"



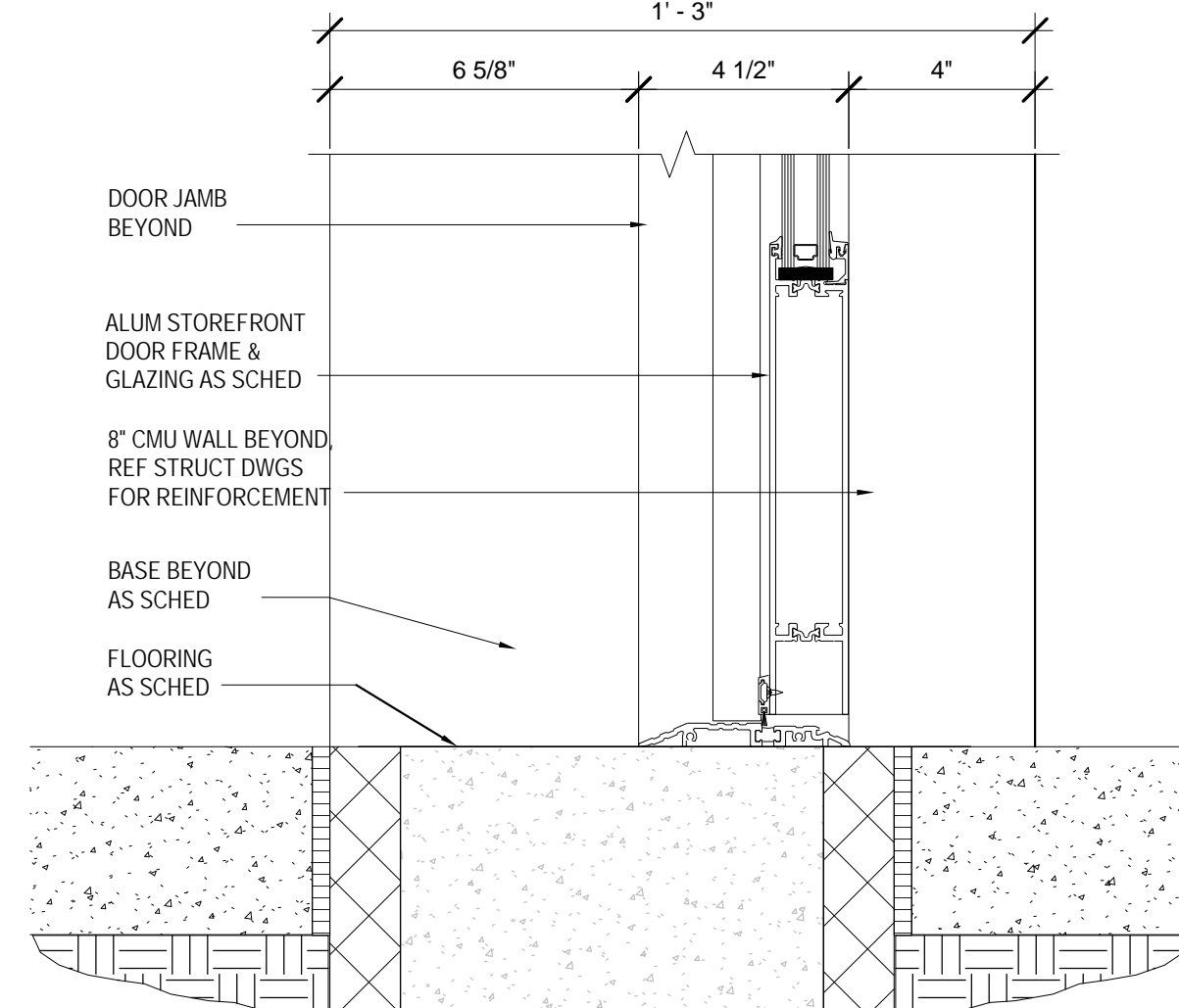
HOLLOW METAL DOOR - TRESHOLD DETAIL A2
3" = 1'-0"



STOREFRONT- HEAD DETAIL C1
3" = 1'-0"



STOREFRONT- WALL JAMB DETAIL B1
3" = 1'-0"



STOREFRONT- TRESHOLD DETAIL A1
3" = 1'-0"

| ROOM FINISH SCHEDULE | |
|----------------------|---|
| FLOOR | |
| ABBR. | DESCRIPTION |
| LVT | 20"x20" LVT -TYPEFACE LVT COLOR 00630/PUNCTUATE -CHARTED LVT COLOR 00630/PUNCTUATE -LETTERPRESS LVT COLOR 00630/PUNCTUATE SEALED CONCRETE |
| CT | 24"x24" CARPET TILE -PATCRAFT MID CENTURY POP -ASHLAR PATTERN a. I0381 - COLOR POP b. 00650 RETRO POP |
| SVF | SHEET VINYL -PATCRAFT ORGANIC HUE SMOKE 00710 WITH WELDED SEAMS - WEL 2020 -WRAP UP WALLS 4" FOR BASE |
| PT | 12"x24" PORCELAIN TILE - DALTILE a. FLOOR AXIOM SILVER FM94 - UNPOLISHED b. GROUT MAPEI 107 IRON |
| BASE & TRANSITION | |
| ABBR. | DESCRIPTION |
| B-1 | ROPPE 193 BLACK BROWN |
| WU-1 | WRAP UP WALL 4" FOR BASE |
| WALL FINISHES | |
| ABBR. | DESCRIPTION |
| P-1 | |
| P-2 | |
| P-3 | |
| PT-1 | 12"x24" PORCELAIN TILE - DALTILE a. WALLS AXIOM SILVER FM94 - POLISHED b. GROUT MAPEI 107 IRON |
| PT-2 | 3"x24" PORCELAIN BULLNOSE TILE - DALTILE a. WALLS AXIOM SILVER FM94 - POLISHED b. GROUT MAPEI 107 IRON |
| CEILING TYPE | |
| ABBR. | DESCRIPTION |
| AC | ACOUSTICAL CEILING TILE |
| CUST | CUSTOM CEILING, SEE R.C.P. |
| GB | GYPSUM BOARD |

| ROOM FINISH SCHEDULE | | | | | | | | | | |
|----------------------|----------------------------|--------------|-------------|-------------|-------|-------|------|------|--------------|-------|
| Number | Name | Floor Finish | Base Finish | ROOM FINISH | | | | | Ceiling Type | Notes |
| | | | | All | North | South | East | West | | |
| 100.1 | ADULT & PEDI CARE WAITING | LVT | B-1 | | | | | | CUST | |
| 100.2 | PEDI CARE RECEPTION | LVT | B-1 | | | | | | CUST | |
| 101 | SHARED WORKSTATIONS | LVT | B-1 | | | | | | AC | |
| 102 | VITALS 1 | LVT | B-1 | | | | | | AC | |
| 103 | VITALS 2 | LVT | B-1 | | | | | | AC | |
| 104 | ADULT PRIMARY CARE WAITING | LVT | B-1 | | | | | | AC | |
| 105 | CORR. | LVT | B-1 | | | | | | AC | |
| 106 | WOMENS | PT | B-1 | | | | | | AC | |
| 107 | FIN. ADV. 1 | CT | B-1 | | | | | | AC | |
| 108 | ADULTCARE NURSE'S STATION | LVT | B-1 | | | | | | AC/GB | |
| 109 | ADULT EXAM 1 | LVT | B-1 | | | | | | AC | |
| 110 | MENS | PT | B-1 | PT-1/P T-2 | | | | | AC | |
| 111 | SURGERY EXAM 10 | LVT | B-1 | | | | | | AC | |
| 112 | SHARED PROCE. 1 HC | SVF | WU-1 | | | | | | AC | |
| 113 | CORR. | LVT | B-1 | | | | | | AC | |
| 114 | SHARED PROCEED. 2 | SVF | WU-1 | | | | | | AC | |
| 115 | WORK STATIONS | LVT | B-1 | | | | | | AC | |
| 116 | WAITING | LVT | B-1 | | | | | | AC | |
| 117 | SURGERY RECEPT. | CT | B-1 | | | | | | AC | |
| 118 | SURGERY NURSE'S STATION | LVT | B-1 | | | | | | AC/GB | |
| 119 | DR. OFFICE | LVT | B-1 | | | | | | AC | |
| 120 | X-RAY CENTER | LVT | B-1 | | | | | | AC | |
| 121 | ULTRA SOUND | LVT | B-1 | | | | | | AC | |
| 122 | SURGERY EXAM 3 | LVT | B-1 | | | | | | AC | |
| 123 | SURGERY EXAM 4 | LVT | B-1 | | | | | | AC | |
| 124 | SURGERY EXAM 5 | LVT | B-1 | | | | | | AC | |
| 125 | EXAM 6 AUDIOLOGY BOOTH | LVT | B-1 | | | | | | AC | |
| 126 | CORR. | LVT | B-1 | | | | | | AC | |
| 127 | PATIENT R.R. | PT | B-1 | | | | | | AC | |
| 128 | STAFF R.R. | PT | B-1 | | | | | | AC | |
| 129 | SURGERY EXAM 2 HC | LVT | B-1 | | | | | | AC | |
| 130 | SURGERY EXAM 1 | LVT | B-1 | | | | | | AC | |
| 131 | MEDS | LVT | B-1 | | | | | | AC | |
| 132 | CORR. | LVT | B-1 | | | | | | AC | |
| 133 | LAB | LVT | B-1 | | | | | | AC | |
| 134 | CUST. | SC | B-1 | | | | | | AC | |
| 135 | CORR. | LVT | B-1 | | | | | | AC | |
| 135A | CORR. | LVT | B-1 | | | | | | AC | |
| 136 | STAFF LOUNGE | LVT | B-1 | | | | | | AC | |
| 137 | SHARED EXAM OR 11 | LVT | B-1 | | | | | | AC | |
| 138 | STORAGE | LVT | B-1 | | | | | | AC | |
| 139 | CLEAN UTILITY | LVT | B-1 | | | | | | AC | |
| 140 | SOILED UTILITY | LVT | B-1 | | | | | | AC | |
| 141 | CORR. | LVT | B-1 | | | | | | AC | |
| 142 | SURGERY EXAM 9 | LVT | B-1 | | | | | | AC | |
| 143 | SURGERY EXAM 8 | LVT | B-1 | | | | | | AC | |
| 144 | SURGERY EXAM 7 | LVT | B-1 | | | | | | AC | |
| 145 | ADULT EXAM 6 | LVT | B-1 | | | | | | AC | |
| 146 | ADULT EXAM 5 | LVT | B-1 | | | | | | AC | |
| 147 | ADULT EXAM 4 | LVT | B-1 | | | | | | AC | |
| 148 | ADULT EXAM 2 | LVT | B-1 | | | | | | AC | |
| 149 | ADULT EXAM 3 | LVT | B-1 | | | | | | AC | |

| ROOM FINISH SCHEDULE | | | | | | | | | | |
|----------------------|-------------------------|--------------|-------------|-------------|-------|-------|------|------|--------------|-------|
| Number | Name | Floor Finish | Base Finish | ROOM FINISH | | | | | Ceiling Type | Notes |
| | | | | All | North | South | East | West | | |
| 150 | ADULT STAFF R.R. 1 | PT | B-1 | | | | | | AC | |
| 151 | CORR. | LVT | B-1 | | | | | | AC | |
| 152 | ADULT STAFF R.R. 2 | PT | B-1 | | | | | | AC | |
| 153 | CLOSET | LVT | B-1 | | | | | | AC | |
| 154 | MECH. | SC | B-1 | | | | | | AC | |
| 155 | FIRE RISER | SC | B-1 | | | | | | AC | |
| 156 | SHARED CONFERENCE | CT | B-1 | | | | | | AC | |
| 157 | SHARED LAB | LVT | B-1 | | | | | | AC | |
| 158 | CORR. | LVT | B-1 | | | | | | AC | |
| 159 | SHARED MEDS | LVT | B-1 | | | | | | AC | |
| 160 | SHARED INJECTION | LVT | B-1 | | | | | | AC | |
| 161 | PATIENT R.R. | PT | B-1 | | | | | | AC | |
| 162 | CORR. | LVT | B-1 | | | | | | AC | |
| 163 | PEDI NURSE'S STATION | LVT | B-1 | | | | | | AC/GB | |
| 164 | PEDI EXAM 2 | LVT | B-1 | | | | | | AC | |
| 165 | PEDI EXAM 1 | LVT | B-1 | | | | | | AC | |
| 166 | CUST. | SC | B-1 | | | | | | AC | |
| 167 | ELECT. | SC | B-1 | | | | | | AC | |
| 168 | PEDI STAFF R.R. | PT | B-1 | | | | | | AC | |
| 169 | CORR. | LVT | B-1 | | | | | | AC | |
| 170 | DOCTOR'S OFFICE | LVT | B-1 | | | | | | AC | |
| 171 | OPT. EXAM 8 | LVT | B-1 | | | | | | AC | |
| 172 | SPECIAL TESTING 2 | LVT | B-1 | | | | | | AC | |
| 173 | OPT. EXAM 1 | LVT | B-1 | | | | | | AC | |
| 174 | CORR. | LVT | B-1 | | | | | | AC | |
| 175 | DIL. WAIT 5 | LVT | B-1 | | | | | | AC | |
| 176 | CORR. | LVT | B-1 | | | | | | AC | |
| 177 | OPTOMETRY TECH. STATION | LVT | B-1 | | | | | | AC/GB | |
| 178 | OPT. EXAM 2 | LVT | B-1 | | | | | | AC | |
| 179 | SPECIAL TESTING | LVT | B-1 | | | | | | AC | |
| 180 | OPT. EXAM 3 | LVT | B-1 | | | | | | AC | |
| 181 | CORR. | LVT | B-1 | | | | | | AC | |
| 182 | OPT. EXAM 4 | LVT | B-1 | | | | | | AC | |
| 183 | C. LENS STOR. | LVT | B-1 | | | | | | AC | |
| 184 | OPTICAL LAB | LVT | B-1 | | | | | | AC | |
| 185 | OPTICAL | LVT | B-1 | | | | | | AC | |
| 186 | RECEPTION | CT | B-1 | | | | | | CUST | |
| 187 | CONTACT LENS I/R | LVT | B-1 | | | | | | AC | |
| 188 | BUSINESS OFFICE | LVT | B-1 | | | | | | AC | |
| 189 | PRETEST | LVT | B-1 | | | | | | AC | |
| 190 | WELCOME AREA | LVT | B-1 | | | | | | AC | |
| 191 | PATIENT LAV. | PT | B-1 | | | | | | AC | |
| 192 | OPT. EXAM 5 | LVT | B-1 | | | | | | AC | |
| 193 | OPT. EXAM 6 | LVT | B-1 | | | | | | AC | |
| 194 | OPT. EXAM 7 | LVT | B-1 | | | | | | AC | |
| 195 | CORR. | LVT | B-1 | | | | | | AC | |
| 196 | PEDI EXAM 3 | LVT | B-1 | | | | | | AC | |
| 197 | PEDI EXAM 4 | LVT | B-1 | | | | | | AC | |
| 198 | WAITING PLAYROOM | LVT | B-1 | | | | | | AC | |
| 199 | PEDI FIN. ADV. | CT | B-1 | | | | | | AC | |
| 201 | VITALS 4 | LVT | B-1 | | | | | | AC | |
| 202 | VITALS 3 | LVT | B-1 | | | | | | AC | |



| INSPECTION TASK | | CONTINUOUS DURING TASK LISTED | PERIODICALLY DURING TASK LISTED |
|--|----------------------------|--|---------------------------------|
| 1. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: | | | |
| A. PROPORTIONS OF SITE PREPARED MORTAR. | | | X |
| B. CONSTRUCTION OF MORTAR JOINT. | | | X |
| C. LOCATION OF REINFORCEMENT AND CONNECTORS. | | | X |
| 2. THE INSPECTION PROGRAM SHALL VERIFY: | | | |
| A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. | | | X |
| B. TYPE, SIZE AND LOCATION OF DOWELS, ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES AND OTHER CONSTRUCTION. | | | X |
| C. CHECK GROUT MIX FOR COMPLIANCE WITH CODE AND SPECIFICATIONS. | | | X |
| D. WELDING OF REINFORCING BARS. | | X | |
| E. PROTECTION OF MASONRY DURING COLD WEATHER (TEMP. BELOW 40 °F.) OR HOT. | | | X |
| F. WEATHER (TEMP. ABOVE 80 °F.) CUTTING OF CLEAN OUT HOLES, KNOCKING DOWN OF FINS AND REMOVAL OF DEBRIS. | | | |
| 3. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: | | | |
| A. GROUT SPACE IS CLEAN. | | X | |
| B. PLACEMENT OF REINFORCEMENT AND CONNECTOR. | | X | |
| C. CHECK GROUT MIX FOR COMPLIANCE WITH CODE AND SPECIFICATIONS. | | | |
| D. CONSTRUCTION OF MORTAR JOINTS. | | | |
| E. CHECK INSTALLATION OF CLEAN OUT CLOSURE. | | X | |
| 4. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS. (SUCH AS MECHANICAL VIBRATION DURING PLACEMENT AND LATER DURING RECONSOLIDATION.) | | X | |
| 5. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED. | | X | |
| 6. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED. | | X | |
| 7. CHECK THAT CURING REQUIREMENTS ARE BEING FOLLOWED. | | X | |
| 8. VERIFY PLACEMENT OF ANCHORS INTO CONCRETE MASONRY UNITS. | | X | |
| 9. FREQUENCY OF TESTS: | | | |
| A. CONCRETE MASONRY UNITS TEST - FOR EACH TYPE, CLASS, AND GRADE OF CONCRETE MASONRY UNIT INDICATED, TEST UNITS BY METHOD OF SAMPLING AND TESTING OF ASTM C140. ONE SET FOR CMU STANDARD PRISM TEST SHALL BE CONDUCTED FOR EVERY 5,000 SQ. FT. OF WALL DURING CONSTRUCTION IN ACCORDANCE TO ASTM C1314, BUT NOT LESS THAN ONE SET OF 3 MASONRY PRISMS FOR THE PROJECT. | | | X |
| B. MORTAR TEST- FOR EACH TYPE INDICATED, TEST MORTAR BY METHODS OF SAMPLING AND TESTING OF ASTM C780. CONDUCT TESTS NO LESS FREQUENTLY THAN THAT REQUIRED TO EVALUATE MORTAR USED TO INSTALL EACH INCREMENT OF MASONRY UNITS INDICATED ABOVE FROM WHICH SAMPLES ARE TAKEN FOR TESTING. TEST MORTAR FOR EVERY 1,500 SQ. FT. OF WALL CONSTRUCTION. | | | |
| C. GROUT TEST: AT START OF GROUTING OPERATION, TAKE ONE TEST PER DAY FOR FIRST 3 DAYS. EACH GROUT TEST CONSISTS OF THREE SPECIMENS MADE IN ACCORDANCE WITH ASTM C1019. AFTER FIRST THREE TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHOULD BE TAKEN ONE A WEEK FOR EVERY 25 CUBIC YARDS OF GROUT OR FOR EVERY 2,500 SQ. FT. OF WALL, WHICHEVER COMES FIRST. | | | |
| 10. MASONRY TESTING REQUIREMENTS: | | | X |
| TESTING METHOD OPTIONS | PRIOR TO CONSTRUCTION | DURING CONSTRUCTION | |
| METHOD 1: | | | |
| MASONRY PRISM TESTING | 5 PRISMS | 3 PRISMS FOR EVERY 5,000 S.F. OF WALL. | |
| METHOD 2: | | | |
| MASONRY PRISM TESTING | APPROVED 30 PRISM RECORD | 3 PRISMS FOR EVERY 5,000 S.F. OF WALL. | |
| METHOD 3: | | | |
| UNIT STRENGTH METHOD | UNITS AND GROUT OR 5 PRISM | UNITS AND GROUT OR 3 PRISMS FOR EVERY 5,000 S.F. OF WALL | |

| GENERAL NOTES | |
|--|--|
| | SPECIAL |
| 1. THE CONTRACTOR SHALL (OR TESTING OF THE TYPES OF CO | INSPECTOR SHALL COMPETENCE TO THE ENGINEER OR SHALL HAVE EXP |
| 2. THE PURPOSE OF THE WITH THE CONS | REPORT AND THE |
| 3. SPECIAL INSP | INSPECTOR SHALL AND TO THE ENG WORK INSPECTE CONSTRUCTION IMMEDIATE ATT CORRECTIONS T BROUGHT TO THE OF RECORD - IF F OF SPECIAL INSP (NMC) TO ENGIN |
| 4. THE SPECIAL IN | DETAIL FABRICA A BASIS FOR SPE ENKLED IN A (SATISFACTORY REQUIRED. ATTE CORRECTIONS T BROUGHT TO THE |
| 5. EACH SPECIAL | SUFFICIENTLY A ITEMS ENTRUSTE THAT CREATES A THROUGH THE P |
| 6. A STRUCTURAL | BEARING WALLS, WALLS, ELEVATE |
| 7. A GEOTECHNIC | PIER AND PIER C PROPER DESIGN PERFORMED PRI EXCAVATION. |
| 8. THE FOLLOWING | |
| STRUCTURAL | |
| REFERENCE STA | HIGH STRENGTH |
| BEARING TYPE | SLIP CRITICAL, CA |
| WELDING OF STR | FULL PENETRATIO |
| MULTI-PASS FIL | SINGLE-PASS FIL |
| SINGLE-PASS FIL | FLOOR AND DEE |
| WELDING OF RE | WELDING OF RE |
| SHEAR REINFOR | OTHER REINFOR |
| INSPECTION OF S | DETAILS SUCH AS |
| MEMBERS SPECI | APPLICATION O |
| CONCRETE CONS | REINFORCING S |
| CONCRETE MIX | |
| SAMPLING OF F | OF 4: FOR EVERY 7 |
| NOT BUT LESS TH | 5.00 SF OF SLAB |
| DEVIATIONS OF | SPEC'D VALUE |
| MAINTENANCE | AND TECHNIQUE |
| INSPECTION OF | PROPER APPLIC |
| INSPECTION OF P | CURING TEMPER |
| DRILLED AND E | DRILLED AND E |
| ANCHORS (REBAR | THREADED REOS |
| SHALL BE PULL TE | 110% OF THE ULT. |
| STRENGTH FOR N | 3 MIN. |
| INSPECT FORME | AND DIMENSION |
| SOLIS (SLAB ON | SUB-GRADE PRE |
| VISUAL OBSERV | |
| PROOFROLLING | BUILDING PAD GEN |
| MOISTURE CON | |
| 1 DENSITY TEST | BUILDING PAD GEN |
| GEOTECHNICAL | |
| BUILDING PAD | |

[illegible]

- [illegible]

9. REFER TO SPECIFICATION SECTION 01411 SPECIAL INSPECTIONS IBC CHAPTER 17.
10. THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (RDPRC) FOR THIS PROJECT IS THE ARCHITECT. SUBMIT ALL SPECIAL INSPECTION REPORTS DIRECTLY TO THE (RDPRC) FOR REVIEW. ALSO SUBMIT THE STRUCTURALLY RELATED SPECIAL INSPECTION REPORTS TO THE STRUCTURAL ENGINEER FOR REVIEW.
11. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL TESTING, INSPECTIONS AND NOTIFYING THE ARCHITECT/ENGINEER AND SPECIAL INSPECTORS OF WORK READY FOR INSPECTION. THE GENERAL CONTRACTOR MUST PROVIDE ACCESS TO AND MEANS FOR PROPER INSPECTION OF SUCH WORK.
12. SPECIAL INSPECTIONS REQUIRED FOR THIS PROJECT:
- A)ISOs (SLAB-ON-GRADE) - 1704.7
- B)CM CONSTRUCTION - 1704
- 1704.10
- C)CONCRETE CONSTRUCTION (INCLUDING SLAB-ON-GRADE AND ALL WALL PANELS) - 1704.4 & 1704.10
- D)STRUCTURAL STEEL - 1704.3
- E)STEEL FABRICATORS - 1704.2
13. THE SPECIAL INSPECTIONS FOR THIS PROJECT WILL BE PROVIDED BY A FIRM DESIGNATED BY THE ARCHITECT.
14. THE RDPRC IS RESPONSIBLE TO PREPARE, SIGN AND SUBMIT THE FINAL REPORT OF REQUIRED INSPECTIONS FOR SUBMITTAL TO THE CITY OF EDENBURGH AFTER GENERAL CONTRACTOR COMPLETES HIS WORK ACCORDING TO THE APPROVED PLANS.
- ## SHOP DRAWINGS & SUBMITTALS
- SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED FOR REVIEW TO THE STRUCTURAL ENGINEER FOR EACH STRUCTURAL BUILDING MATERIAL AS INDICATED IN THE STRUCTURAL GENERAL NOTES AND THE CONTRACT SPECIFICATIONS. SEE THE CONTRACT SPECIFICATIONS FOR SUBMITTAL PROCEDURES AND ADDITIONAL INFORMATION.
 - SHOP DRAWINGS SHALL USE DRAFTING LINE WORK AND LETTERING THAT IS CLEARLY LEGIBLE. SHOP DRAWINGS SHALL NOT CONTAIN REPRODUCTIONS OF THE CONTRACT DRAWING PLANS OR DETAILS.
 - SHOP DRAWINGS SHALL NOT SHOW MATERIALS FOR MORE THAN ONE LEVEL OF THE SAME PLAN.
 - SHOP DRAWINGS SHALL SHOW CLEAR AND COMPLETE INFORMATION FOR THE FABRICATION (DETAIL SHEETS AND/OR MATERIAL LISTS) AND INSTALLATION.
 - ALLOW A MINIMUM OF (2) WEEKS FOR REVIEW OF EACH SET OF SHOP DRAWINGS.
 - CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS SUBMITTED BY THE SUBCONTRACTOR AND COORDINATE SHOP DRAWINGS WITH ALL OTHER TRADING.
 - CONTRACTOR SHALL ANSWER ALL QUESTIONS OR CLARIFICATIONS BY THE SUBCONTRACTOR BEFORE SUBMITTING TO ENGINEER FOR REVIEW. ANY QUESTIONS THAT THE CONTRACTOR CANNOT ANSWER WITH THE INFORMATION ON THE DRAWINGS SHALL CLEARLY BE MARKED FOR THE ENGINEER FOR REVIEW.
 - CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS, SEE NOTE NUMBER 3 UNDER GENERAL NOTES.
 - REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS FOR GENERAL CONFORMANCE TO THE STRUCTURAL DRAWINGS.
 - APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR FOR ANY ERRORS IN DIMENSIONS OR MATERIALS INDICATED ON THE SHOP DRAWINGS.
 - IF THERE IS ANY DISCREPANCY BETWEEN THE STRUCTURAL DRAWINGS AND SHOP DRAWINGS, THE INFORMATION SHOWN ON THE STRUCTURAL DRAWINGS GOVERN. INFORMATION THAT IS NOT INDICATED ON THE SHOP DRAWINGS SHALL BE OBTAINED FROM THE STRUCTURAL DRAWINGS.
 - PROVIDE SUBMITTALS FOR THE FOLLOWING ITEMS:
 - CONCRETE MIX DESIGN
 - CURING COMPOUND FOR CONCRETE
 - REINFORCING STEEL
 - STRUCTURAL STEEL
 - METAL DECKING (INDICATE LAYOUT AND TYPES OF DECK PANELS, ANCHORAGE DETAILS, REINFORCING CHANNELS, PANS, DECK DRAINAGES, SPECIAL JOINTING, ACCESSORIES, AND ATTACHMENTS TO OTHER CONSTRUCTION.)
- ## STRUCTURAL OBSERVATIONS
- FOR THE OBSERVATIONS BY THE PROFESSIONAL ENGINEER OR HIS AUTHORIZED REPRESENTATIVE SHALL CONSIST OF VISUAL OBSERVATION OF MATERIALS, EQUIPMENT OR CONSTRUCTION WORK FOR THE PURPOSE OF ASCERTAINING THAT THE WORK IS IN SUBSTANTIAL CONFORMANCE WITH THE CONTRACT DOCUMENTS AND WITH THE DESIGN INTENT. SUCH OBSERVATIONS SHALL NOT BE RELIED UPON BY OTHERS AS ACCEPTANCE OF THE WORK, NOR SHALL IT BE CONSTRUED TO RELIEVE THE CONTRACTOR IN ANY WAY FROM HIS OBLIGATIONS AND RESPONSIBILITIES UNDER THE CONSTRUCTION CONTRACT. SPECIFICALLY BUT WITHOUT LIMITATION, OBSERVATIONS BY THE DESIGN PROFESSIONAL SHALL NOT REQUIRE THE DESIGN PROFESSIONAL TO ASSUME RESPONSIBILITY FOR THE MEANS AND METHODS OF CONSTRUCTION, NOR FOR SAFETY ON THE JOB SITE.
 - NOTIFY ENGINEER FOR THE FOLLOWING ITEMS:
 - BEFORE PLACEMENT OF CONCRETE FOR SLAB/FOUNDATION
 - BEFORE PLACEMENT OF FOUR (4) FEET OF GROUT IN CMU WALL
 - AFTER FRAMING OF ROOF STRUCTURE BUT BEFORE PLACEMENT OF ROOFING MATERIAL
 - NOTIFY ENGINEER 48 HOURS IN ADVANCE WHEN A STRUCTURAL OBSERVATION IS REQUIRED.

[illegible]

- SECTION 01411 SPECIAL INSPECTIONS (BC CONTRACT 17.1)
- PROFESSIONAL IN RESPONSIBLE CHARGE (RIPIC) FOR THE SPECIAL INSPECTION REPORTS DIRECTLY TO THE (REGISTERED) STRUCTURALLY RELATED SPECIAL INSPECTION REPORTS REVIEW.
- IS RESPONSIBLE FOR COORDINATING ALL TESTING, INSPECTION AND SPECIAL INSPECTIONS OF WORK READY TO BE CONSTRUCTED. THE CONTRACTOR SHALL PROVIDE ACCESS TO AND MEANS FOR PROPER INSPECTION.
- FOR THIS PROJECT:
- 4.7 (INCLUDING SLAB-ON-GRADE AND ALL WALL PANELS).
- FOR THIS PROJECT WILL BE PROVIDED BY A FIRM DESIGNATED BY THE CONTRACTOR.
- TO PREPARE, SIGN AND SUBMIT THE "FINAL REPORT OF SPECIAL INSPECTIONS" TO THE CITY OF EDINBURGH AFTER GENERAL CONTRACTOR'S REVIEW AND APPROVAL TO THE APPROVED PLANS.
- SHOP DRAWINGS & SUBMITTALS**
1. SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED BY THE STRUCTURAL ENGINEER FOR EACH STRUCTURAL MATERIAL AS INDICATED IN THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL SEE THE CITY OF EDINBURGH FOR SUBMITTAL PROCEDURES AND ADDITIONAL REQUIREMENTS. SHOP DRAWINGS SHALL BE PREPARED IN A MANNER THAT IS CLEARLY LEGIBLE. SHOP DRAWINGS SHALL BE SUBMITTED IN REPRODUCTION OF THE CONTRACT DRAWINGS. SHOP DRAWINGS SHALL NOT SHOW MATERIALS BELOW THE LEVEL OF THE SAFE PLAN.
2. SHOP DRAWINGS SHALL SHOW CLEAR AND CORRECT FABRICATION (DETAIL SHEETS AND/OR INSTALLATION).
3. ALLOW A MINIMUM OF (2) WEEKS FOR REVIEW OF SHOP DRAWINGS.
4. CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS BY THE SUBCONTRACTOR AND COORDINATE SHOP DRAWINGS WITH OTHER TRADING.
5. CONTRACTOR SHALL ANSWER ALL QUESTIONS BY THE SUBCONTRACTOR BEFORE SUBMITTING SHOP DRAWINGS. REVIEW ANY QUESTIONS THAT THE CONTRACTOR ANSWER WITH THE INFORMATION ON THE DRAWING. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE CORRECTNESS OF THE INFORMATION. REVIEW ANY QUESTIONS THAT THE CONTRACTOR ANSWER WITH THE INFORMATION ON THE DRAWING. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE CORRECTNESS OF THE INFORMATION.
6. REVIEW OF SHOP DRAWINGS BY THE ENGINEER SHALL BE REQUIRED FOR THE SUBMITTAL OF SHOP DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER SHALL BE REQUIRED FOR THE SUBMITTAL OF SHOP DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER SHALL BE REQUIRED FOR THE SUBMITTAL OF SHOP DRAWINGS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUBMITTAL OF SHOP DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER SHALL BE REQUIRED FOR THE SUBMITTAL OF SHOP DRAWINGS.
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11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUBMITTAL OF SHOP DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER SHALL BE REQUIRED FOR THE SUBMITTAL OF SHOP DRAWINGS.
- A. CONCRETE MIX DESIGN
- B. CURING COMPRESSIVE FOR CONCRETE
- C. REINFORCING STEEL
- D. STRUCTURAL STEEL
- E. METAL DECKING (INDICATE LAYOUT AND ANCHORAGE DETAILS, REINFORCING CHAIRS, JOINTS, JOINTING ACCESSORIES TO OTHER CONSTRUCTION).
- STRUCTURAL OBSERVATIONS**
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUBMITTAL OF SHOP DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER SHALL BE REQUIRED FOR THE SUBMITTAL OF SHOP DRAWINGS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUBMITTAL OF SHOP DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER SHALL BE REQUIRED FOR THE SUBMITTAL OF SHOP DRAWINGS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUBMITTAL OF SHOP DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER SHALL BE REQUIRED FOR THE SUBMITTAL OF SHOP DRAWINGS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUBMITTAL OF SHOP DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER SHALL BE REQUIRED FOR THE SUBMITTAL OF SHOP DRAWINGS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUBMITTAL OF SHOP DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER SHALL BE REQUIRED FOR THE SUBMITTAL OF SHOP DRAWINGS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUBMITTAL OF SHOP DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER SHALL BE REQUIRED FOR THE SUBMITTAL OF SHOP DRAWINGS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUBMITTAL OF SHOP DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER SHALL BE REQUIRED FOR THE SUBMITTAL OF SHOP DRAWINGS.
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9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUBMITTAL OF SHOP DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER SHALL BE REQUIRED FOR THE SUBMITTAL OF SHOP DRAWINGS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUBMITTAL OF SHOP DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER SHALL BE REQUIRED FOR THE SUBMITTAL OF SHOP DRAWINGS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUBMITTAL OF SHOP DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER SHALL BE REQUIRED FOR THE SUBMITTAL OF SHOP DRAWINGS.

01411 SPECIAL INSPECTIONS IBC CHAPTER 17.

RESPONSIBLE IN CHARGE (RDPIC) FOR
INSPECTION REPORTS DIRECTLY TO THE
NATURALLY RELATED SPECIAL INSPECTION REPORT
FOR THIS PROJECT.

FOR THIS PROJECT:

INCLUDING SLAB-ON-GRADE AND ALL WALL PANELS)

THIS PROJECT WILL BE PROVIDED BY A FIRM DESIGNED

PREPARE, SIGN AND SUBMIT THE "FINAL REPORT" TO THE
CITY OF EDMUNDBURG AFTER GENERAL CONTRACTOR
TO THE APPROVED PLANS.

SHOP DRAWINGS & SUBMITTALS

SHOP DRAWINGS SHALL BE PREPARED AND
THE STRUCTURAL ENGINEER FOR EACH STRUCTURAL
MATERIAL AS INDICATED IN THE STRUCTURAL
SHOP DRAWINGS SHALL NOT SHOW MATERIALS
FOR SUBMITTAL PROCEDURES AND ADDITIONAL
SHOP DRAWINGS SHALL SHOW CLEAR AND CORRECT
THE FABRICATION (DETAIL SHEETS) AND/OR
INSTALLATION.

ALLOW A MINIMUM OF (2) WEEKS FOR REVIEW
OF SHOP DRAWINGS.

CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS
BY THE SUBCONTRACTOR AND COORDINATE WITH
OTHER TRADING.

CONTRACTOR SHALL ANSWER ALL QUESTIONS
BY THE SUBCONTRACTOR BEFORE SUBMITTAL.
REVIEW. ANY QUESTIONS THAT THE CONTRACTOR
ANSWER WITH THE INFORMATION ON THE SHOP DRAWINGS
BE MARKED FOR THE ENGINEER FOR REVIEW.
CONTRACTOR IS RESPONSIBLE FOR VERIFYING
SEE NOTE NUMBER 5 UNDER GENERAL NOTES.

REVIEW OF SHOP DRAWINGS BY THE ENGINEER
CONFORMANCE TO THE STRUCTURAL DRAWINGS.
APPROVAL OF THE SHOP DRAWINGS BY THE
THE RELIEF THE CONTRACTOR FOR ANY ERRORS
MATERIALS INDICATED ON THE SHOP DRAWINGS.
THERE IS ANY DISCREPANCY BETWEEN THE
SHOP DRAWINGS, THE INFORMATION ON THE
DRAWINGS GROUND, INFORMATION THAT IS
SHOP DRAWINGS SHALL BE OBTAINED FROM
PROVIDE SUBMITTALS FOR THE FOLLOWING:

- CONCRETE MIX DESIGN
- CURING COMPOUND FOR CONCRETE
- REINFORCING STEEL
- STRUCTURAL STEEL
- METAL DECKING (INDICATE LAYOUT AND
ANCHORAGE DETAILS, REINFORCING CHAIRS
TO OTHER CONSTRUCTION).

STRUCTURAL OBSERVATIONS

THE SUB-OBSERVATIONS AT THE PROJECTS
AUTHORIZED REPRESENTATIVE SHALL CONSIST OF
OF MATERIALS, EQUIPMENT OR CONSTRUCTION
OF ASCERTAINING THAT THE WORK IS IN ACCORDANCE
WITH THE CONTRACT DOCUMENTS AND WITH
OBSERVATIONS SHALL NOT BE RELIED UPON BY THE
CONTRACTOR IN ANY WAY FROM HIS OBLIGATIONS
SPECIFICALLY BUT WITHOUT LIMITATION, OR
DESIGN PROFESSIONAL, SHALL NOT REQUIRE
CONSTRUCTION, NOR FOR SAFETY ON THE
NOTIFY ENGINEER FOR THE FOLLOWING ITEMS:

- BEFORE PLACEMENT OF CONCRETE
- BEFORE PLACEMENT OF FORM 4 (FEEDBACK)
- AFTER FINISHING OF ROOF STRUCTURE
- ROOFING MATERIAL

NOTIFY ENGINEER 48 HOURS IN ADVANCE
OBSERVATION IS REQUIRED.

- [illegible]

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**Boultinghouse
Simpson
Gates
ARCHITECTS**



GENERAL NOTES

DATE: 11/12

PROJECT NAME:

ISSUE DATE:

08/09/18

UTRGV - SCHOOL OF MEDICINE - JACKSON RD.

OWNER:

UTRGV

PROJECT ADDRESS:

PROJECT NO:

Project Number

REVISIONS:

SHEET NUMBER:

S1 1

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Boltinghouse
Symson
Gates
ARCHITECTS



UTRGV - SCHOOL OF MEDICINE - JACKSON RD.

UTRGV

PROJECT NAME
UTRGV

ISSUE DATE
08/09/18

SHEET NUMBER
S11

PROJECT NO
Project Number

REVISIONS

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Boltinghouse
Symson
Gates
ARCHITECTS



UTRGV - SCHOOL OF MEDICINE - JACKSON RD.

UTRGV

PROJECT NAME
UTRGV

ISSUE DATE
08/09/18

SHEET NUMBER
S11

PROJECT NO
Project Number

REVISIONS

[illegible]

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Boultonhouse
Simpson
Gates
ARCHITECTS

GENERAL NOTES
PROJECT NAME
UTRGV - SCHOOL OF MEDICINE - JACKSON RD.
OWNER
UTRGV

DATE
08/09/18

PROJECT NO
Project Number

REVISIONS

SHEET NUMBER
S1 1

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Boultinghouse
Architects

GENERAL NOTES

DRAWING NO. 08/09/1

PROJECT NO. Project

REVISIONS

SHEET NUMBER 21

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**Boultinghouse
Simpson
Capes**

GENERAL NOTES

PROJECT NAME
UTRGV - SCHOOL OF MEDICINE - JACKSON RD.

PROJECT DATE
08/09/18

PROJECT NO.
Project Number

REVISIONS

SHEET NUMBER
S11





CLH

 ENGINEERING, INC.

 TBPE FIRM NO. F-8719

 115. 15th STREET MCALLEN, TX 78101

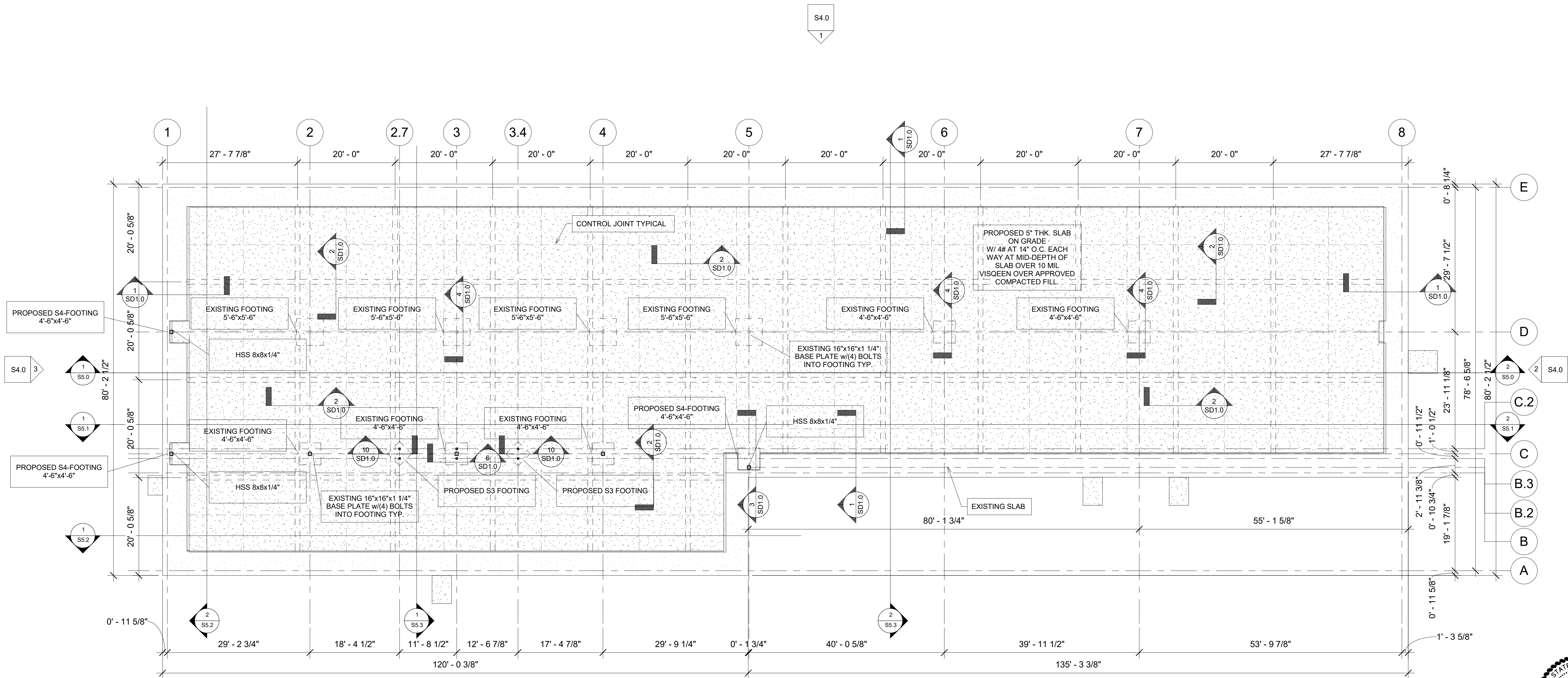


CLH

 ENGINEERING, INC.

 TBPE FIRM NO. F-8719

 115. 15th STREET MCALLEN, TX 78101



1 FOUNDATION PLAN
3/32" = 1'-0"

FOUNDATION NOTES:

1. SEE SHEET S1.0 & S1.1 FOR GENERAL NOTES.
2. CONTRACTOR IS RESPONSIBLE FOR THE LOCATION OF ALL FLOOR DRAINS (F.D.) WHETHER OR NOT THEY ARE NOTED ON THE STRUCTURAL DRAWINGS.
3. CONTRACTOR / SUBCONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS WITH ARCHITECTURAL PLANS
- BEFORE COMMENCING ANY WORK, THE CONTRACTOR / SUBCONTRACTOR SHALL CLEARLY REPORT ANY DISCREPANCIES BEFORE THE WORK COMMENCES.
4. REFER TO ARCH'L PLANS FOR ADDITIONAL DIMENSIONS.
5. SEE ARCHITECTURAL DRAWINGS FOR ALL SLOPES, DROPS, AND DRAIN LOCATIONS.
6. SEE ARCHITECTURAL WALL SECTIONS FOR HEIGHT OF WALLS AT WINDOW OPENINGS.
7. REFER TO GENERAL NOTES ON SHEET S1.0 & S1.1 FOR CONCRETE & STEEL REINFORCING SPECIFICATION.
8. REFER TO ARCH'L PLANS FOR DEPRESSED AREAS, INCLUDING SIZE, AT CERAMIC TILE, QUARRY TILE, AND WOOD FLOOR LOCATIONS.
9. ALL FOOTINGS TO HAVE #5's AT 12" O.C. EACH WAY TOP AND BOTTOM REINFORCING.
10. FOLLOWING ARE THE SIZES OF THE REQUIRED FOOTINGS:
S3 - INDICATES A 3'-6" x 3'-6" x 3'-0" DEEP SQUARE FOOTING
S4 - INDICATES A 4'-6" x 4'-6" x 3'-0" DEEP SQUARE FOOTING

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Gates**
ARCHITECTS

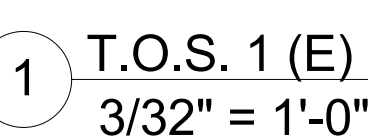
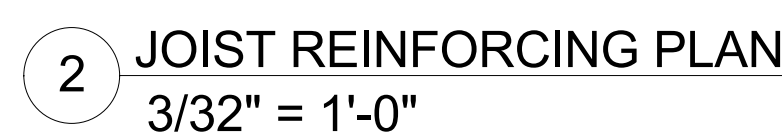
1. SEE SHEET S10 & S11 FOR FRAMING GENERAL NOTES.
2. SEE SHEET S02.0 & S02.1 FOR: FRAMING DETAILS & TYPICAL DETAILS.
3. DESIGN JOISTS UNDER UNITS WITH LOADS INDICATED ON THE DRAWINGS AND DESIGN CRITERIA JOIST MANUFACTURER TO PROVIDE JOIST SIZE (MAX. JOIST DEPTH TO BE AS SHOWN ON PLANS) DESIGN JOIST FOR 2600. (MECHANICAL WEIGHT+DEAD LOAD ONLY) COORDINATE OPENINGS WITH MECHANICAL PLANS.
4. JOIST UNDER THE PROPOSED LOCATION OF MECHANICAL UNIT MAY BE DOUBLE UP. IF JOIST SUPPLIER APPROVES LOADING REQUIREMENTS.
5. FOR OPENING IN ROOF AND AT MECHANICAL UNITS. SEE DETAIL 8/S02.0
6. ALL COLUMNS SHALL BE HSS 66x1/4, U.N.O.
7. JOIST SUPPLIER TO PROVIDE HORIZONTAL AND/OR DIAGONAL BRIDGING PER CODE.
8. INDICATES 8" LOAD BEARING CMU WALL w/ #5s (V) AT 32" O.C. , U.N.O.
9. INDICATES CMU LINTEL, SEE DETAIL 1/S02.1 FOR SIZE AND STEEL REINFORCING.
10. MECHANICAL UNITS MUST BE SUPPORTED BY A MINIMUM OF 3 JOISTS.
11. INDICATES CONCRETE LINTEL, SEE DETAIL 7/S02.0 FOR SIZE AND STEEL REINFORCING.
12. TYPICAL BRIDGING PER STEEL JOIST MANUFACTURER:
HORIZONTAL: $1" \times 1" \times \frac{1}{8}"$
DIAGONAL: $1 \frac{1}{2}" \times 1 \frac{1}{2}" \times \frac{1}{8}"$

7'-0"

N.W.U.=13 PSF

N.W.U.=10 PSF

NET WIND UPLIFT



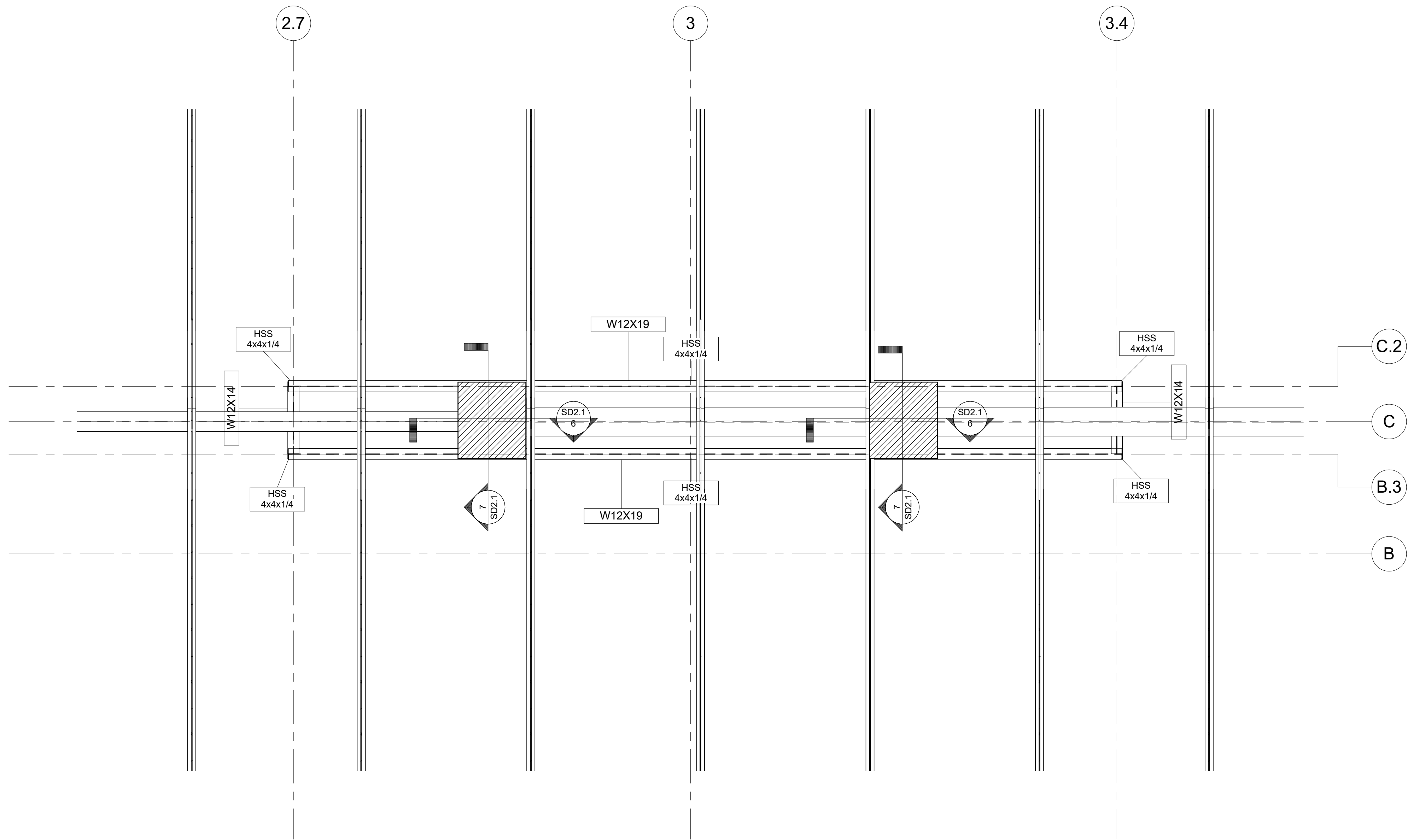
FRAMING PLAN
PROJECT NAME
UTRGV - SCHOOL OF MEDICINE - JACKSON RD.
OWNER
UTRGV
PROJECT ADDRESS
1000 University Ave.
City State Zip

PROJECT NO
Project Number
REVISIONS



SHEET NUMBER

S3.0



1 ENLARGED PLAN AT BOOM LIGHT
1/2" = 1'-0"



CLH
ENGINEERING, INC.
TPE FIRM No. F-B719
701 S. 15th STREET McALLEN, TX. 78501
(956) 687-5560 (956) 687-5561 FAX

SHEET TITLE
FRAMING ENLARGED PLAN
PROJECT NAME
UTRGV - SCHOOL OF MEDICINE - JACKSON RD.
OWNER
UTRGV
PROJECT ADDRESS
City, State Zip

ISSUE DATE
10/23/18

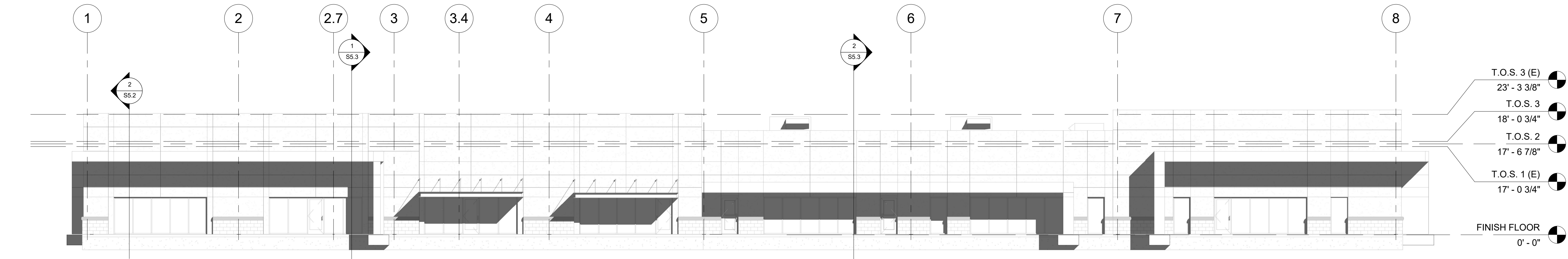
PROJECT NO
Project Number
REVISIONS

SHEET NUMBER
S3.1

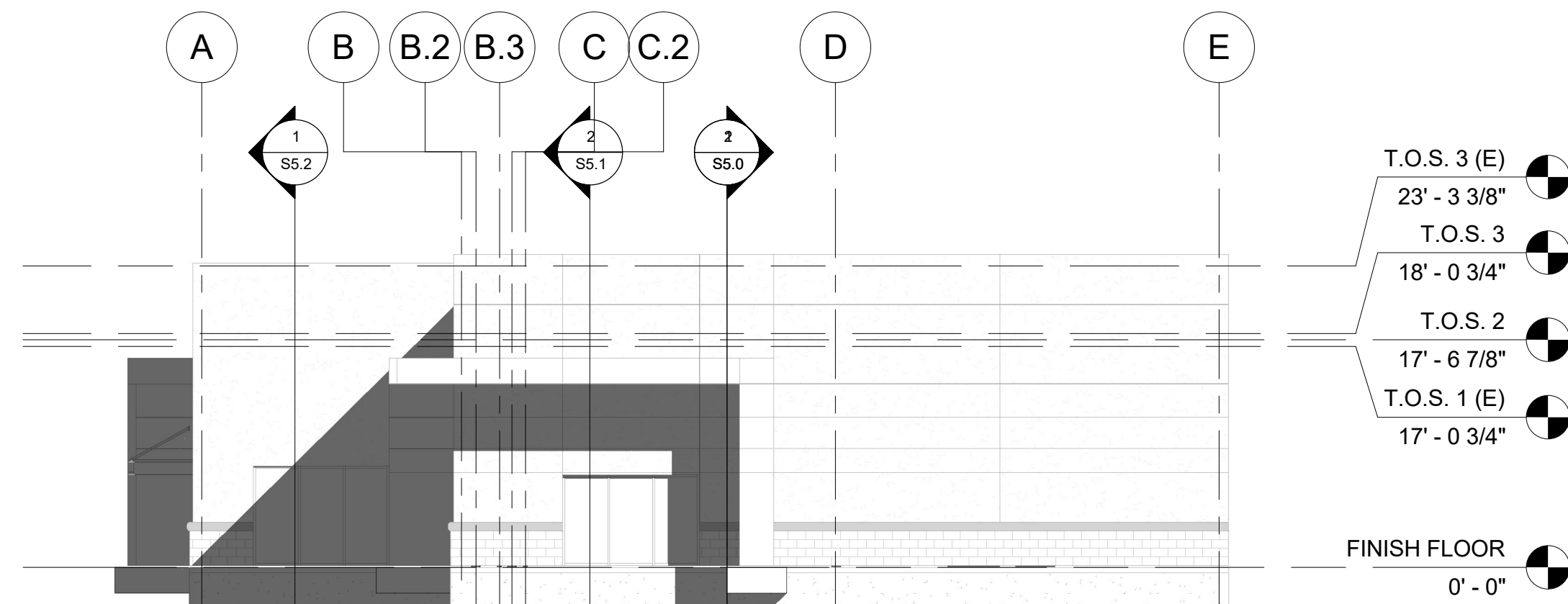
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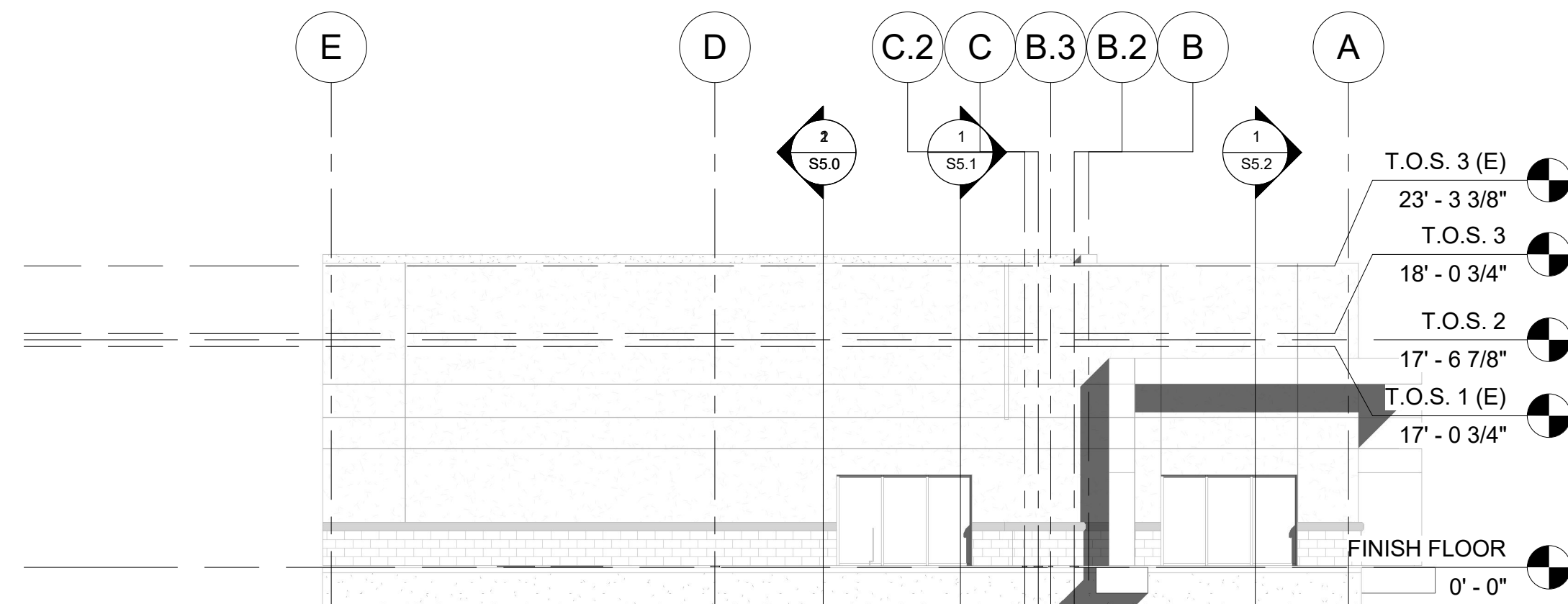
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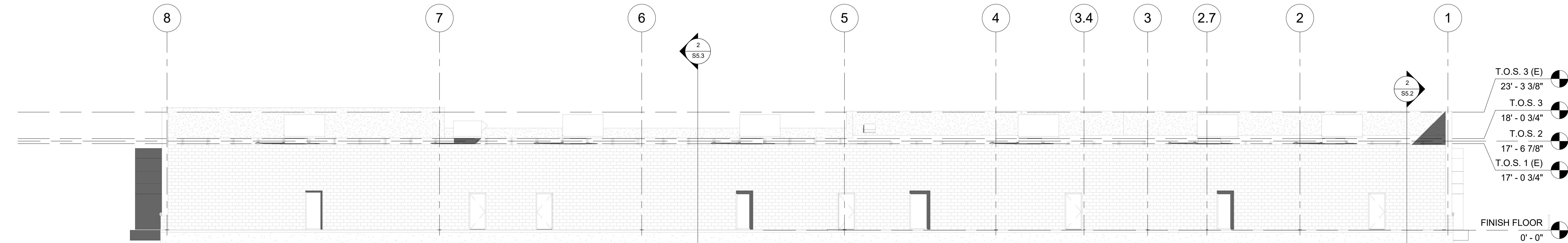
4 South
3/32" = 1'-0"



2 East
3/32" = 1'-0"



3 West
3/32" = 1'-0"



1 North
3/32" = 1'-0"

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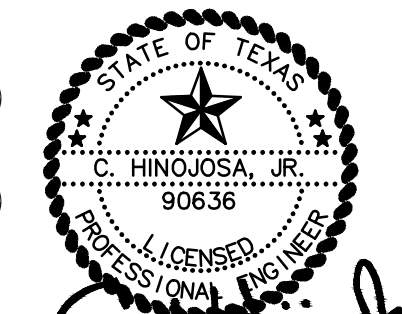
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SHEET TITLE
ELEVATIONS
PROJECT NAME
UTRGV - SCHOOL OF MEDICINE - JACKSON RD.
OWNER
UTRGV
PROJECT ADDRESS
Street
City, State Zip

ISSUE DATE
08/09/18

PROJECT NO
Project Number
REVISIONS

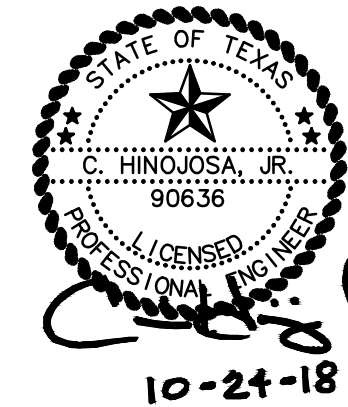


10-24-18

CLH

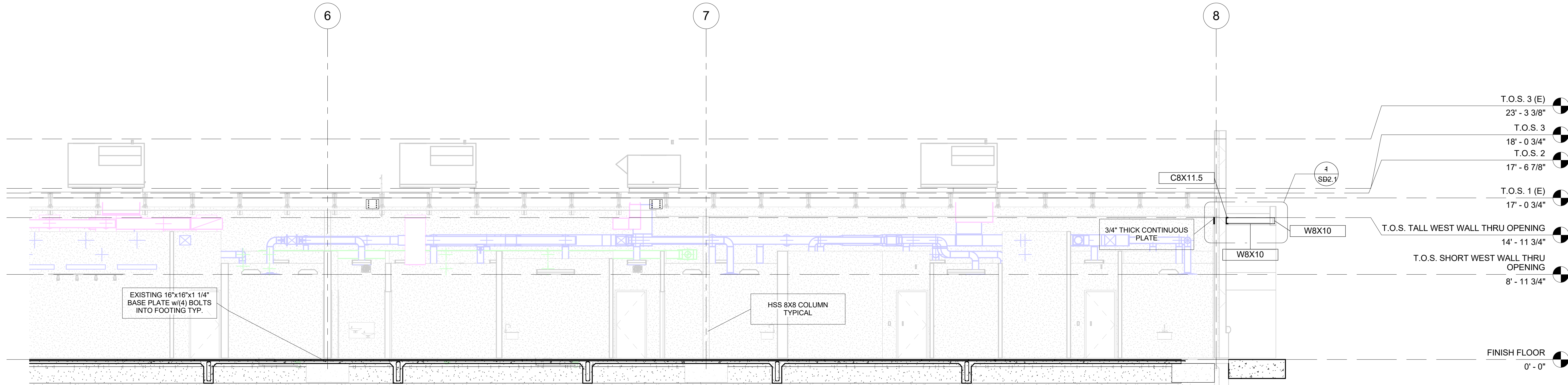
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TBPE FIRM No. F-8719
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(956) 687-5560 (956) 687-5561 FAX

SHEET NUMBER
S4.0

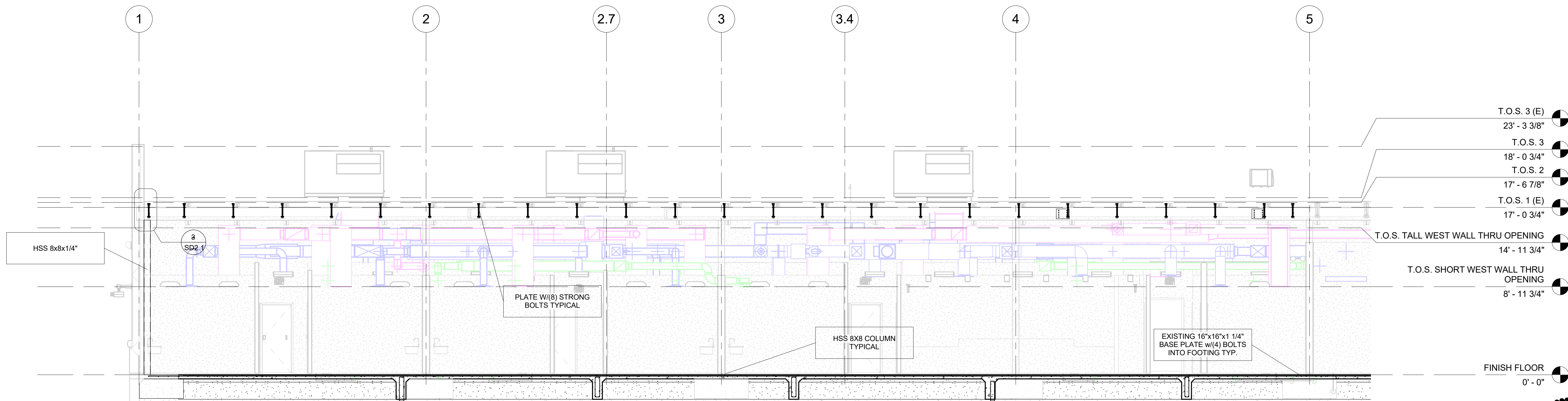


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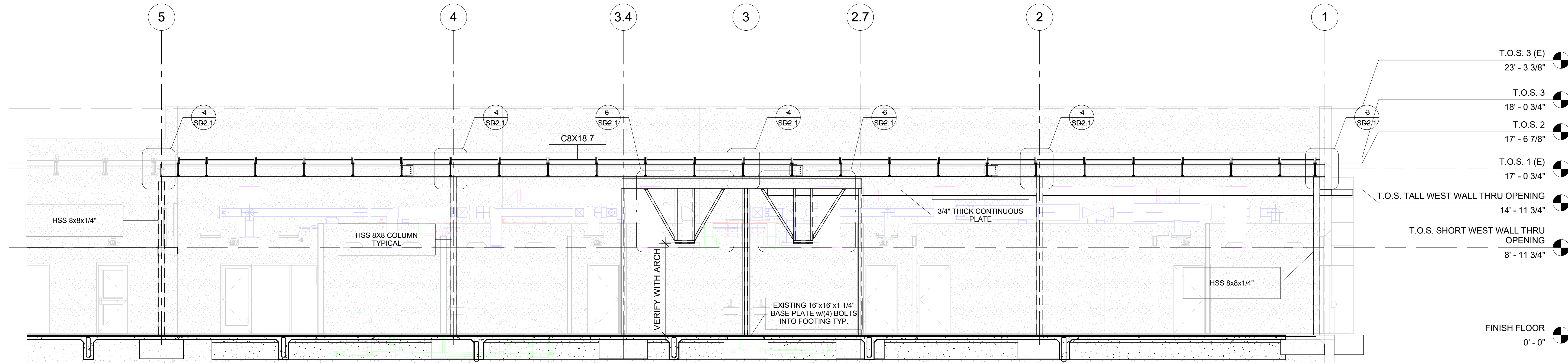
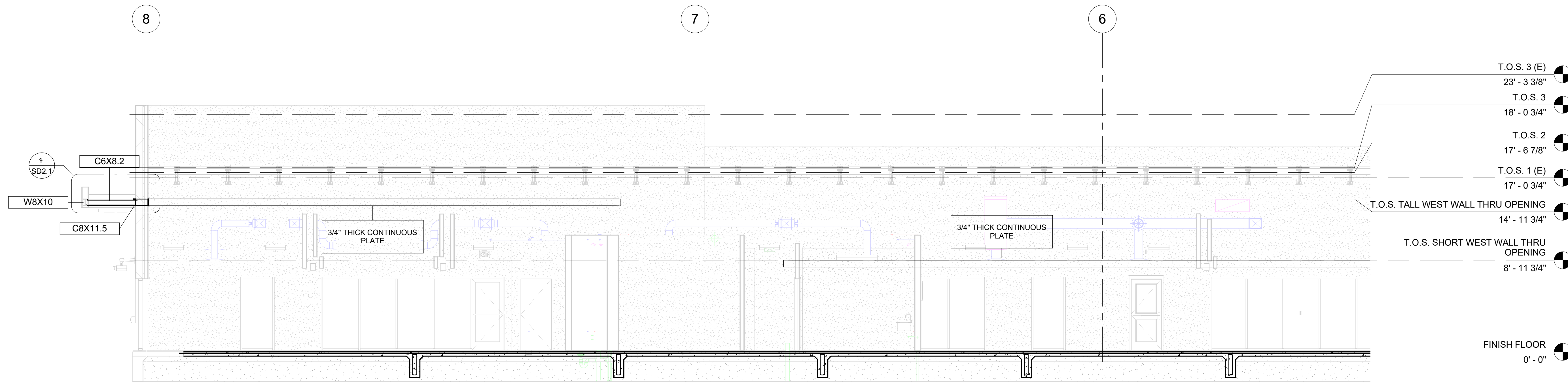
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2 Section 1
3/16" = 1'-0"



1 Section 1
3/16" = 1'-0"



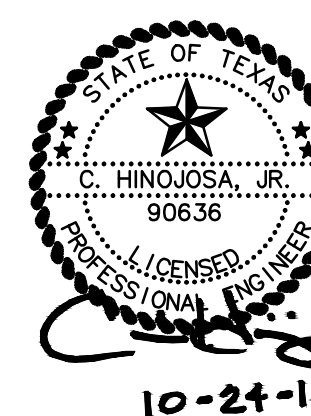
SECTIONS
UTRGV - SCHOOL OF MEDICINE - JACKSON RD.

ISSUE DATE
08/31/18

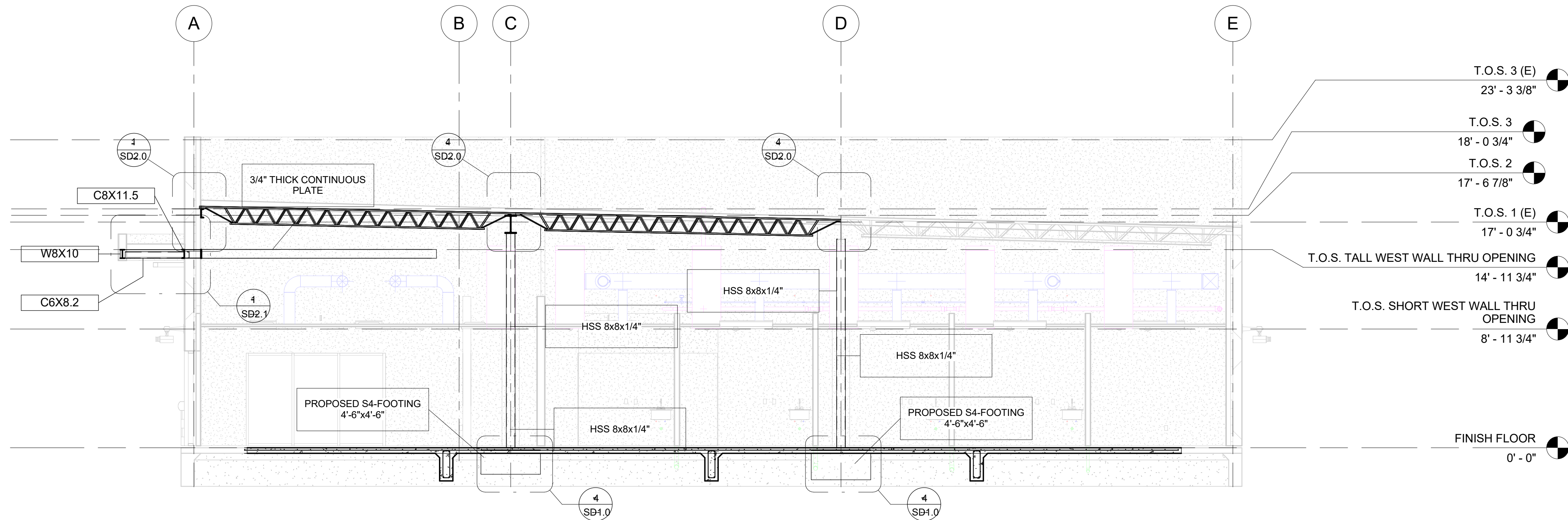
PROJECT NO
Project Number

REVISIONS

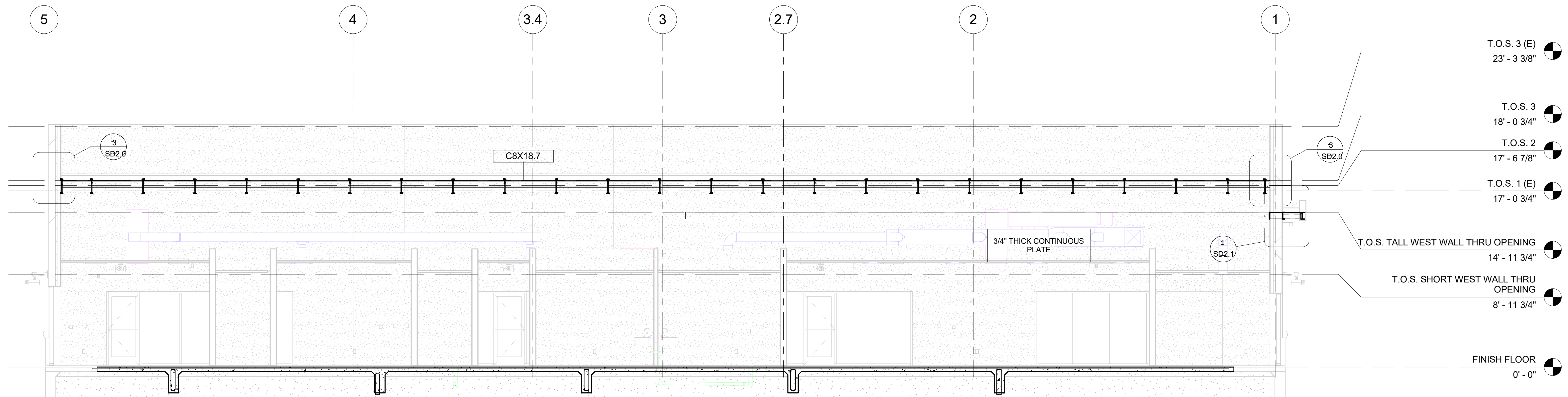
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S5.1



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2 Section 4
3/16" = 1'-0"



1 Section 3
3/16" = 1'-0"

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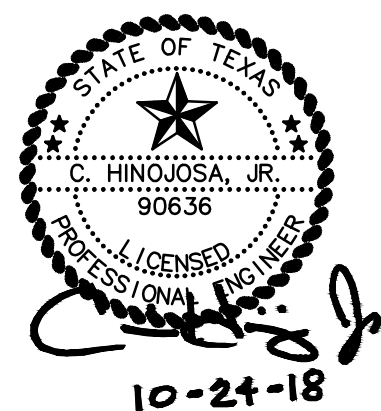
3301 N McCOLL RD | McALLEN, TX 78501 | P 956.630.9494 | F 956.630.2039

SECTIONS
PROJECT NAME
UTRGV - SCHOOL OF MEDICINE - JACKSON RD.
OWNER
UTRGV
PROJECT ADDRESS
Street
City, State Zip

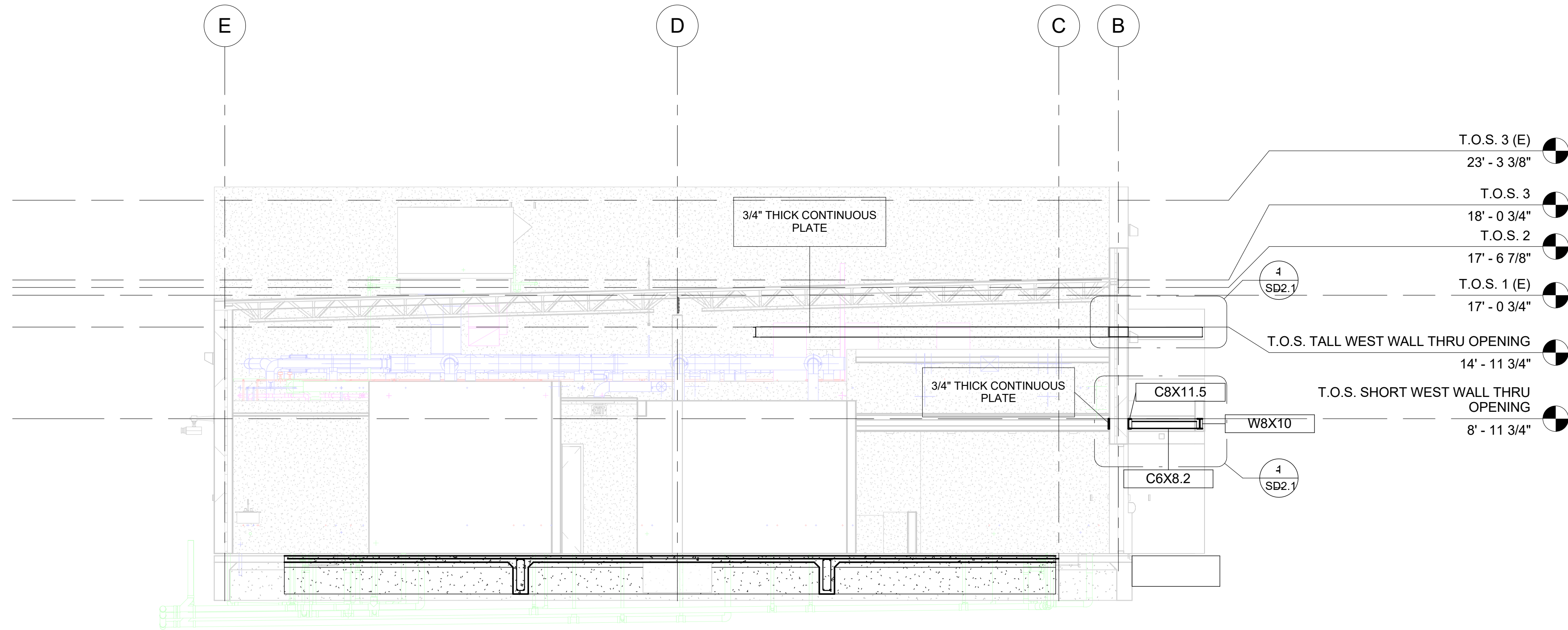
ISSUE DATE
09/04/18

PROJECT NO
Project Number
REVISIONS

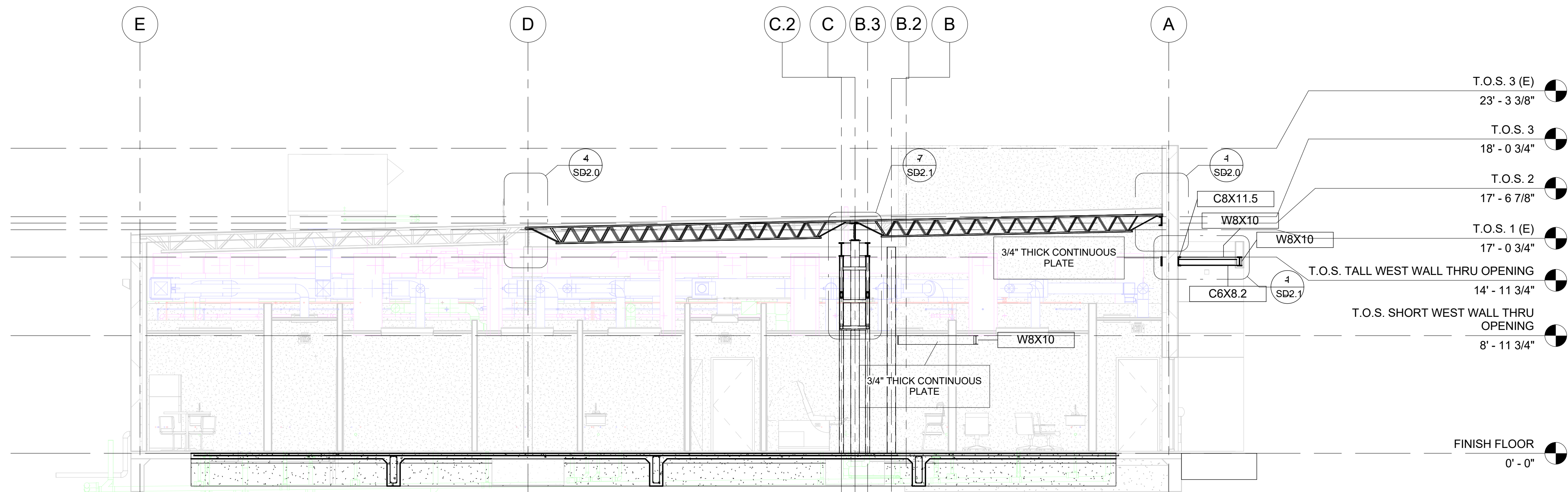
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S5.2



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2 Section 6
3/16" = 1'-0"



1 Section 5
3/16" = 1'-0"

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SECTIONS
PROJECT NAME
UTRGV - SCHOOL OF MEDICINE - JACKSON RD.
OWNER
UTRGV
PROJECT ADDRESS
#2 Street
City, State Zip

STATE OF TEXAS
C. HINOJOSA, JR.
90636
LICENSED PROFESSIONAL ENGINEER
10-24-18
CLH
ENGINEERING, INC.
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ISSUE DATE
09/04/18
PROJECT NO
Project Number
REVISIONS
SHEET NUMBER
S5.3

10 db FOR #3 thru #8 BARS

#3 THRU #5, 6 db, 3" MIN.

90 BEND (OTHER BARS)

BEND DIA.

#3 THRU #8 6db, 3" MIN.

135 BEND (SEISMIC HOOKS)

#3 THRU #8 6db, 3" MIN.

90 & 135 BENDS

12 db

4 db OR 2 1/2" MIN.

6 db

The diagram illustrates four reinforcing bar details for a concrete slab:

- DOUBLE LAYER REINFORCING:**
 - Left Detail:** Shows a standard 90-degree bend. The vertical leg is labeled $30d$ (18" MIN.). The horizontal leg is labeled "TYP. 6\"".
 - Right Detail:** Shows an alternative bend. The horizontal leg is labeled $30d$ (18" MIN.). The vertical leg is labeled $30d$ (18" MIN.).
- SINGLE LAYER REINFORCING:**
 - Left Detail:** Shows a standard 90-degree bend. The vertical leg is labeled $30d$ (18" MIN.).
 - Right Detail:** Shows an alternative bend labeled "ALT. BEND". The horizontal leg is labeled 18" MIN.

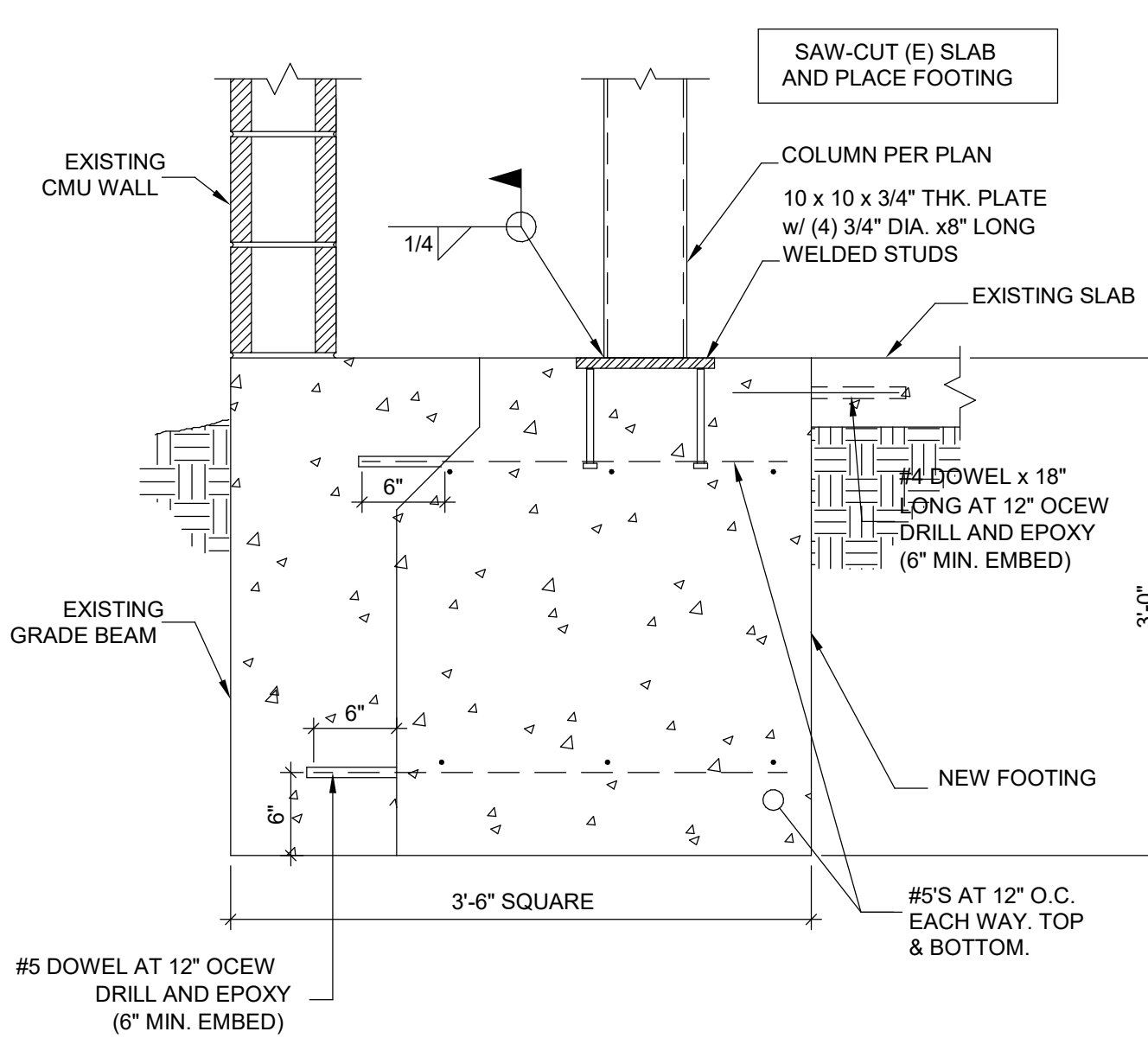
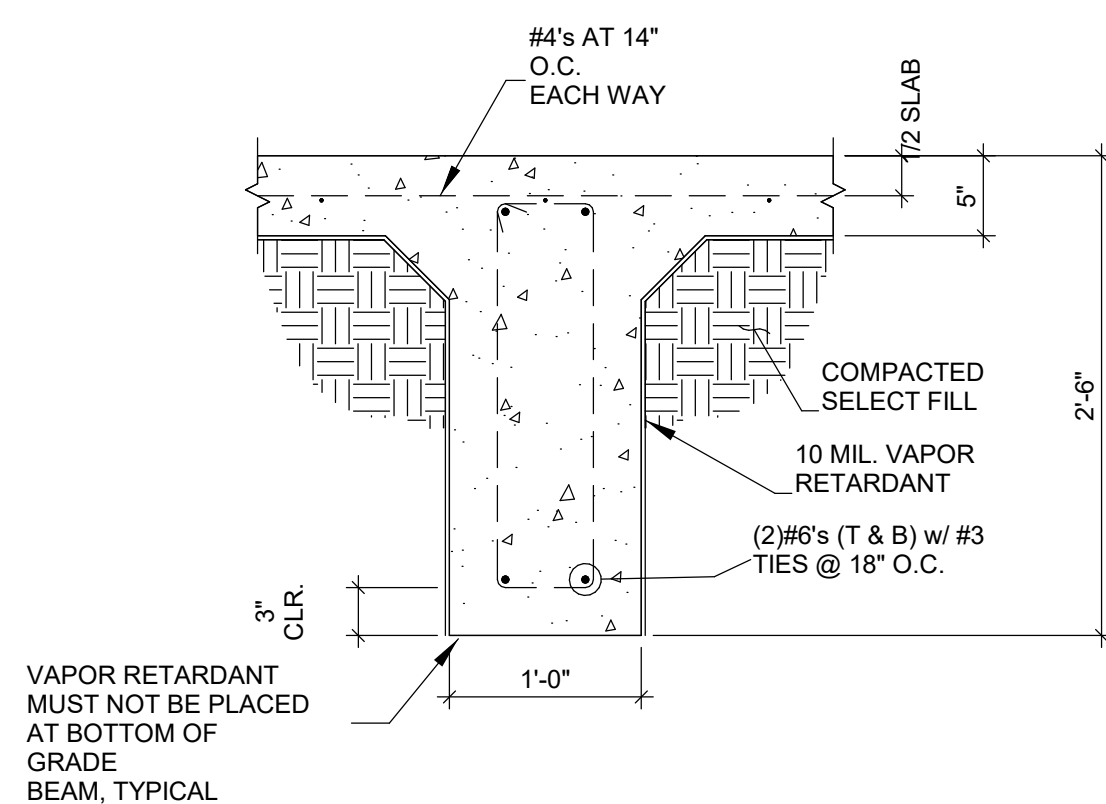
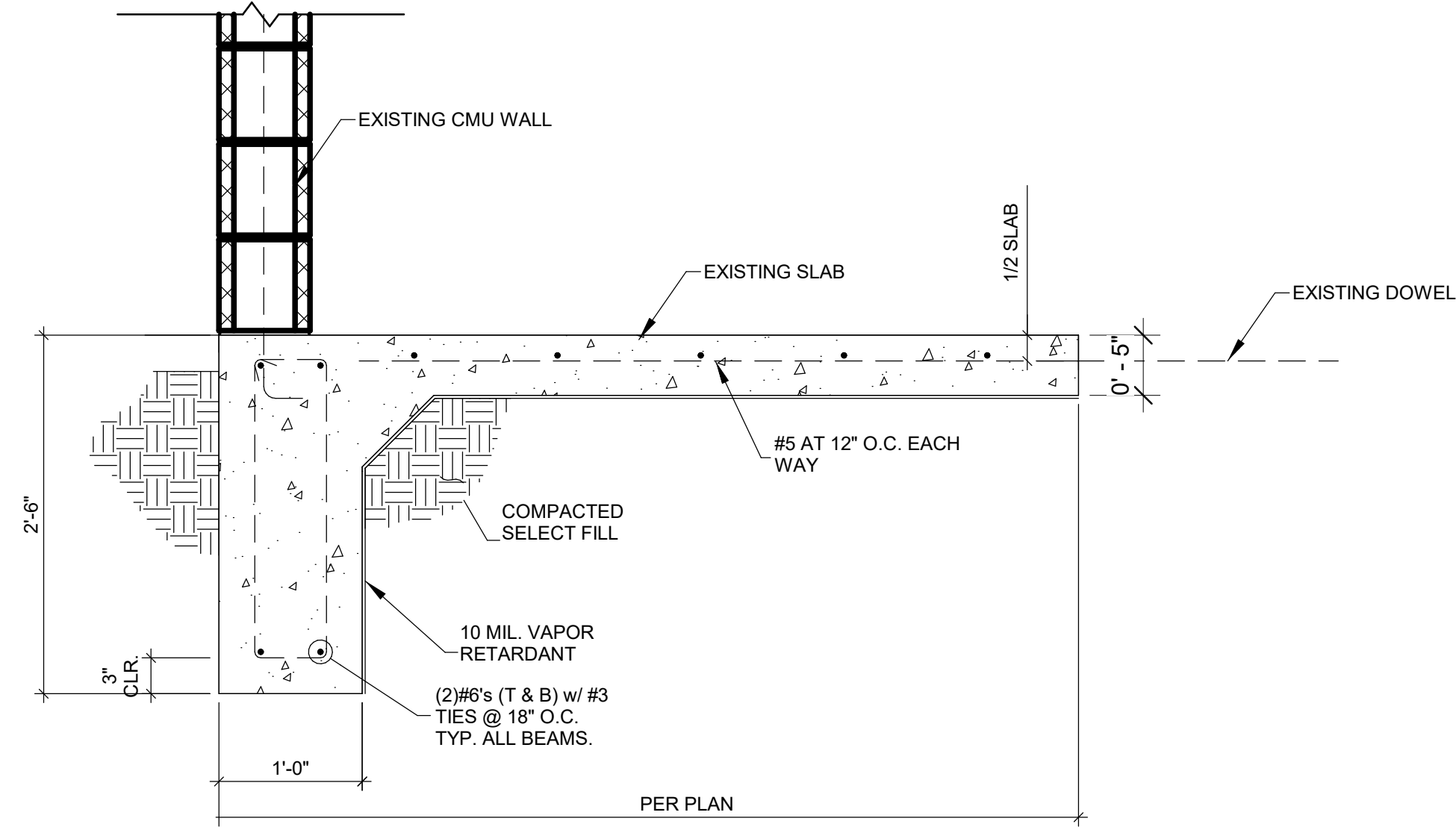
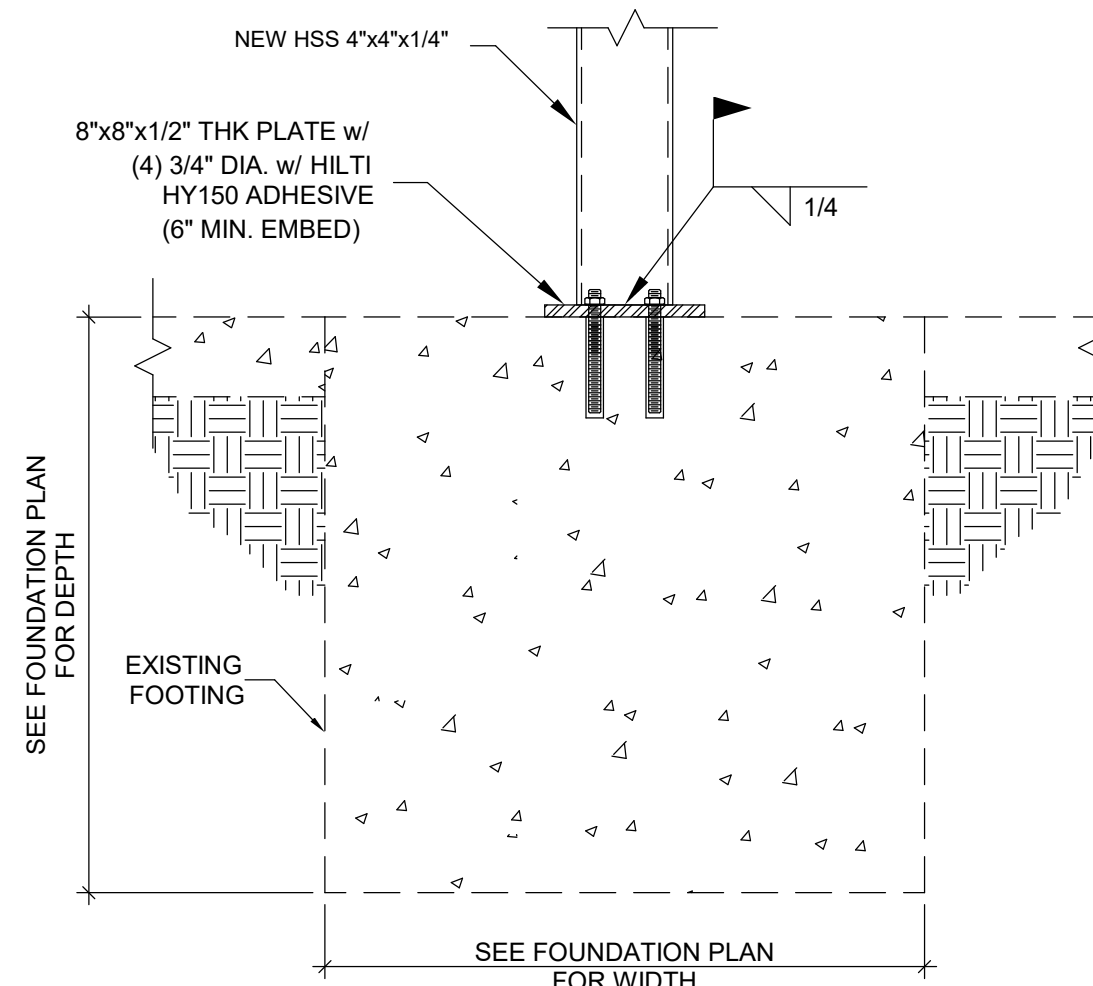
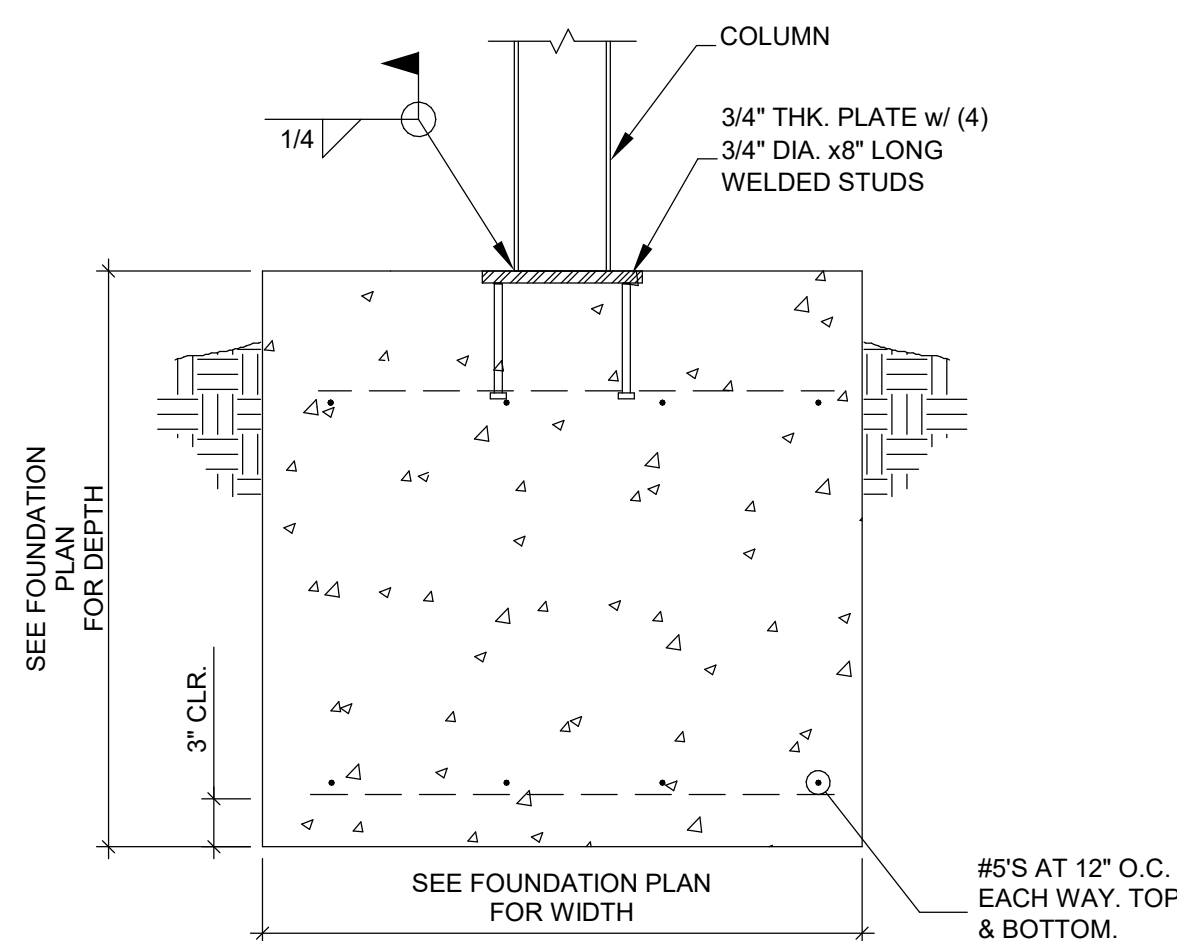
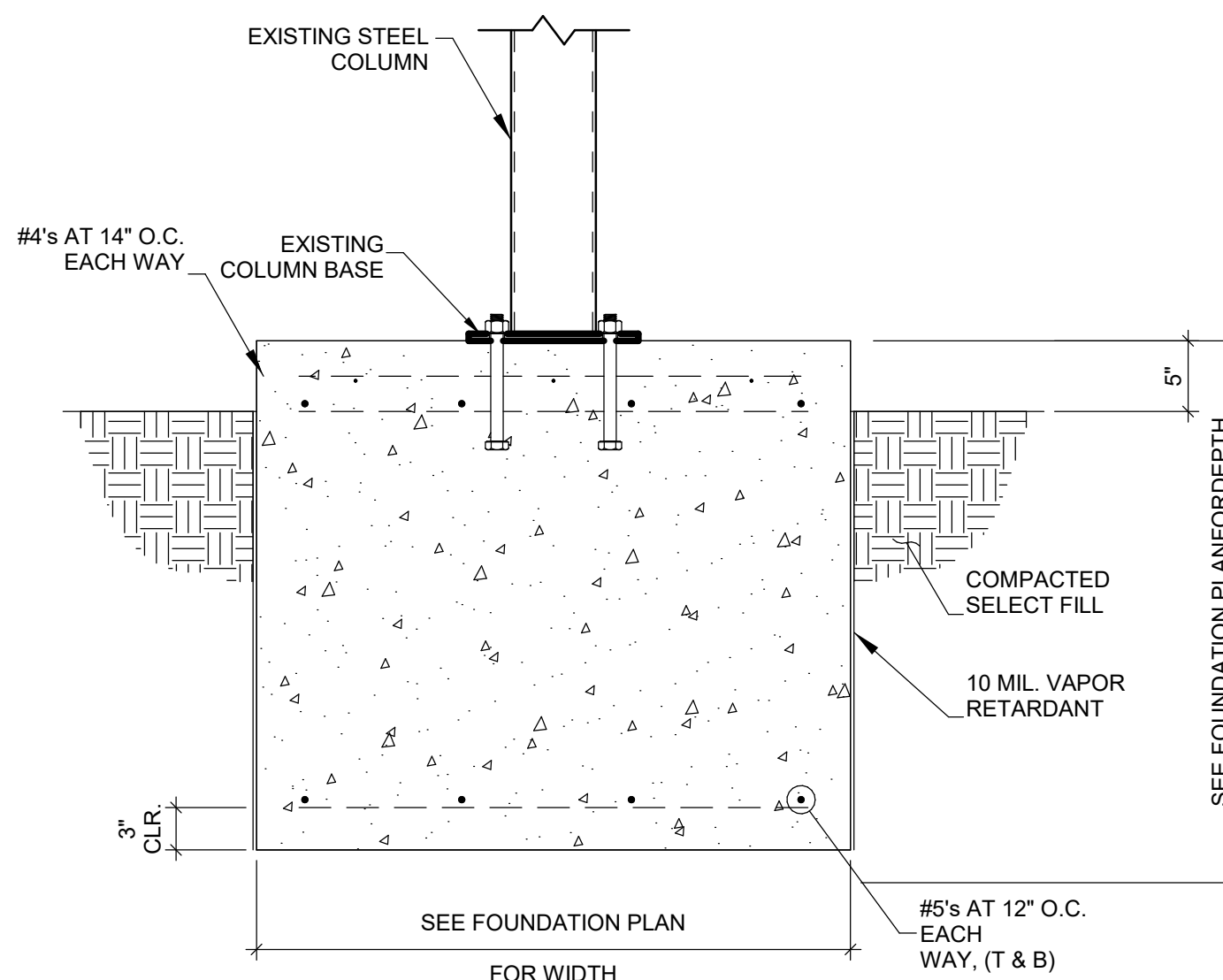
Architectural drawing showing a cross-section and top view of a foundation detail.

Cross-Section View:

- 1/2" SLAB
- 5" COMPACTED SELECT FILL
- 10 MIL. VAPOR RETARDANT
- 3/4" THK. PLATE w/ (4) 3/4" DIA. x 8" LONG WELDED STUDS
- COLUMN
- 1/4" dimension for the plate thickness.
- SEE FOUNDATION PLAN FOR WIDTH
- #5's AT 12" O.C. EACH WAY (T & R)

Top View:

- 2" dimensions for the plate width and height.
- #5's AT 14" O.C. EACH WAY
- NOTES: DIMENSION ARE FROM FACE OF PLATE TO FACE OF COLUMN.



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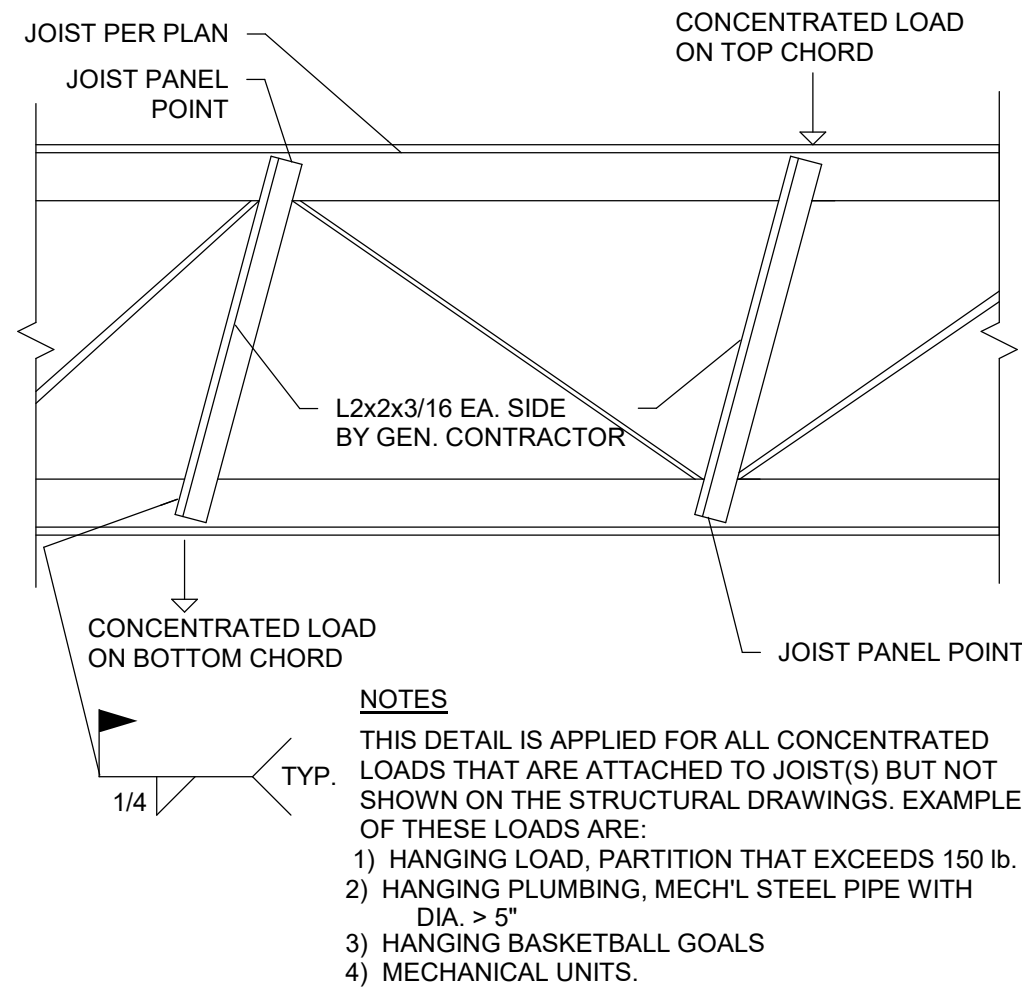
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C. HINOJOSA, JR.
90636
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PROFESSIONAL ENGINEER
10-24-18

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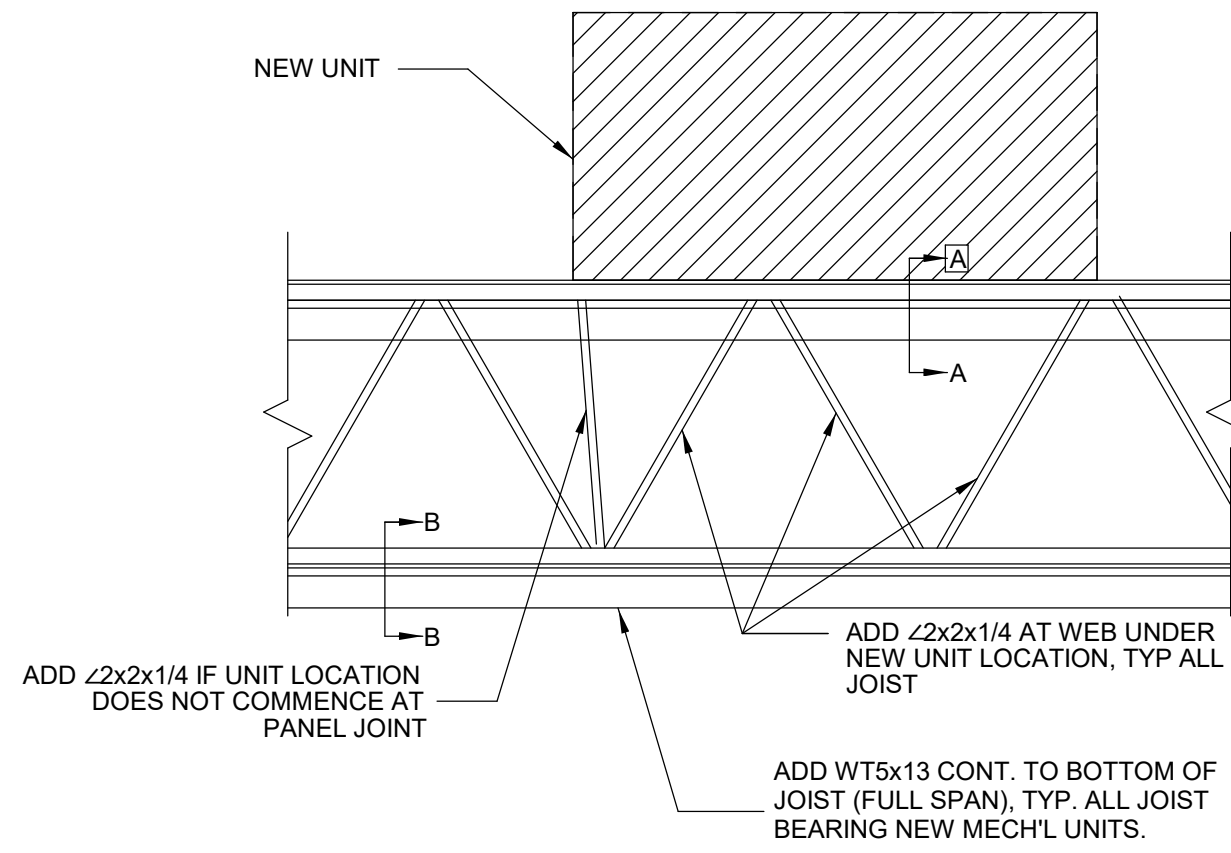
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701 S. 15th STREET McALLEN, TX. 7850
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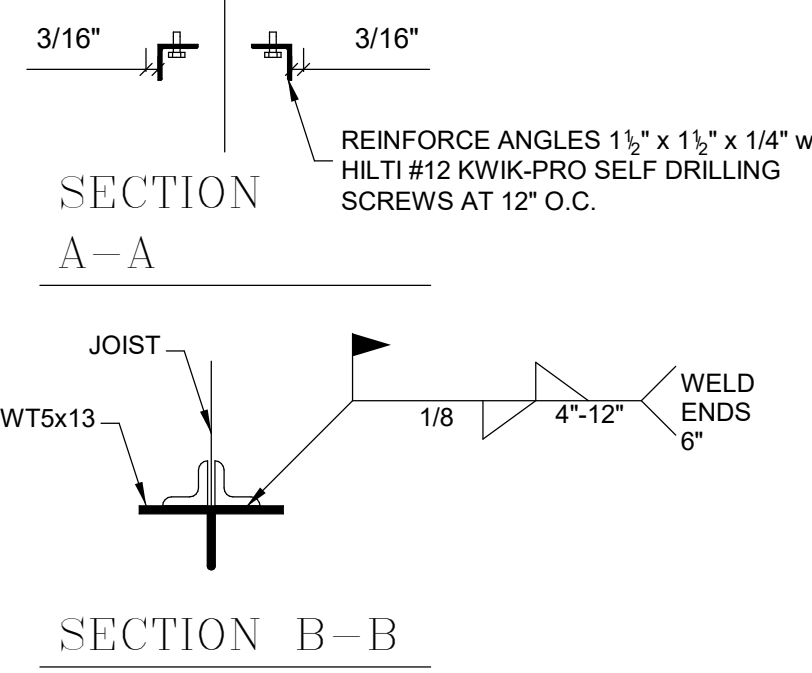
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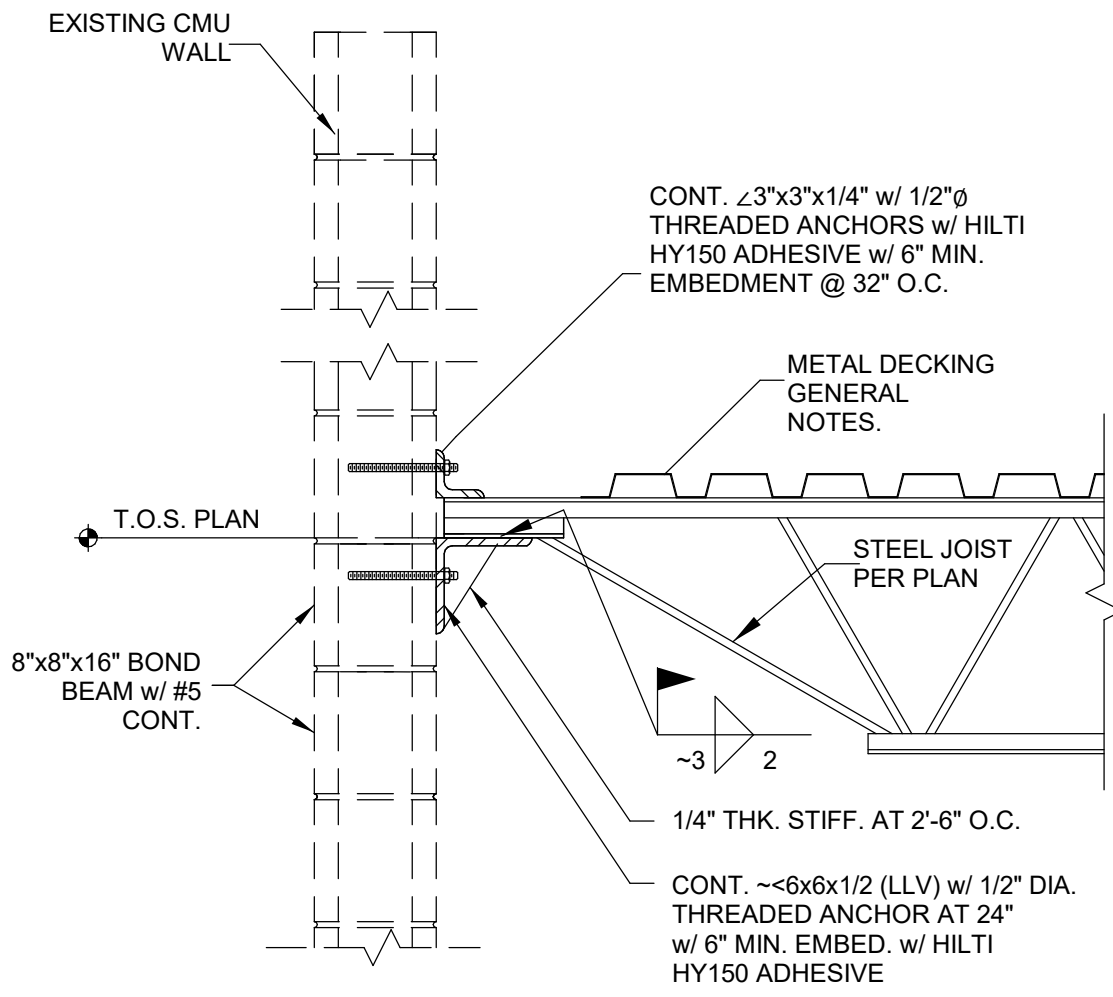
10 JOIST BRACING
1" = 1'-0"



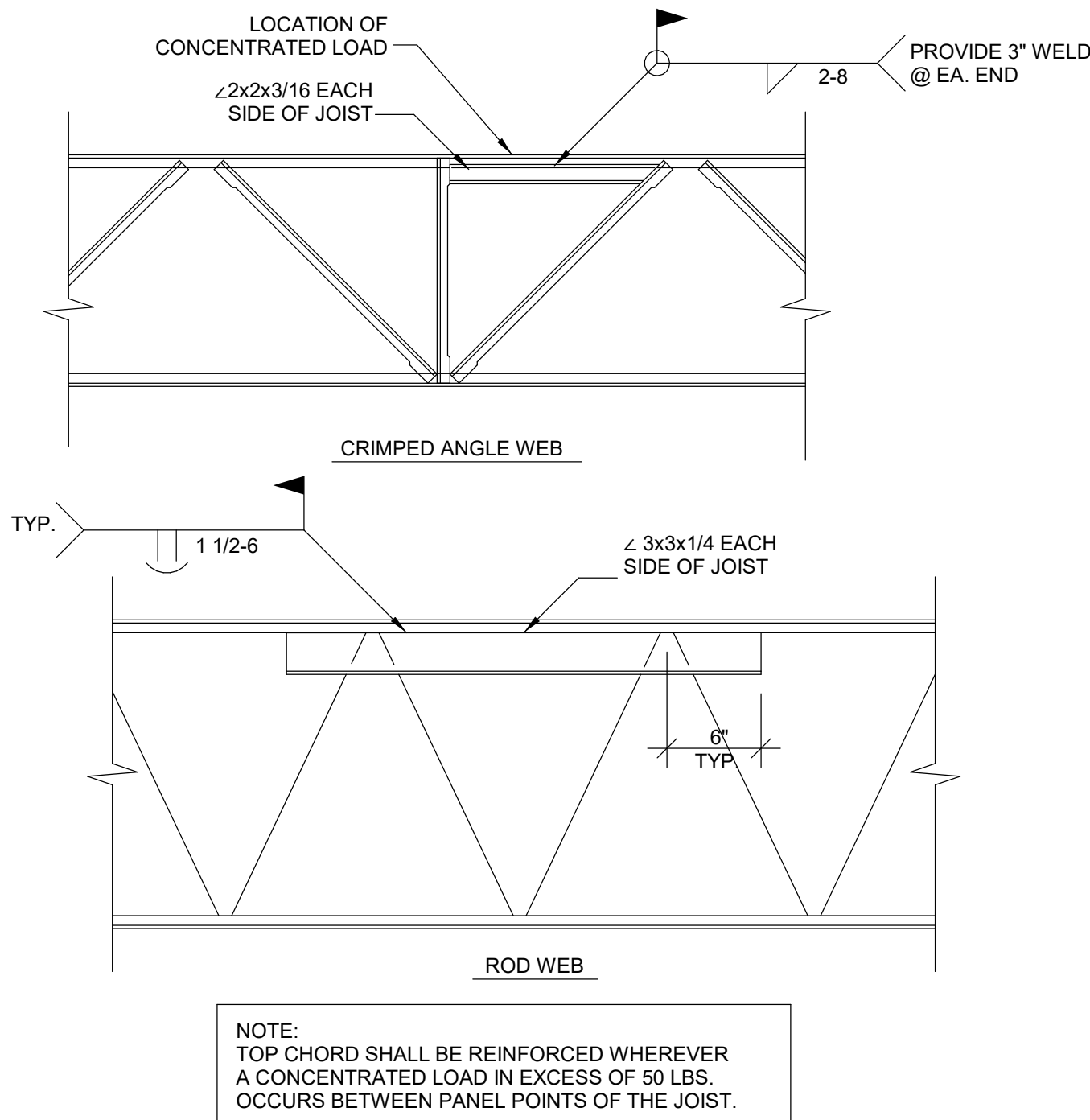
7 JOIST REINFORCING AT MECH'L UNIT
1" = 1'-0"



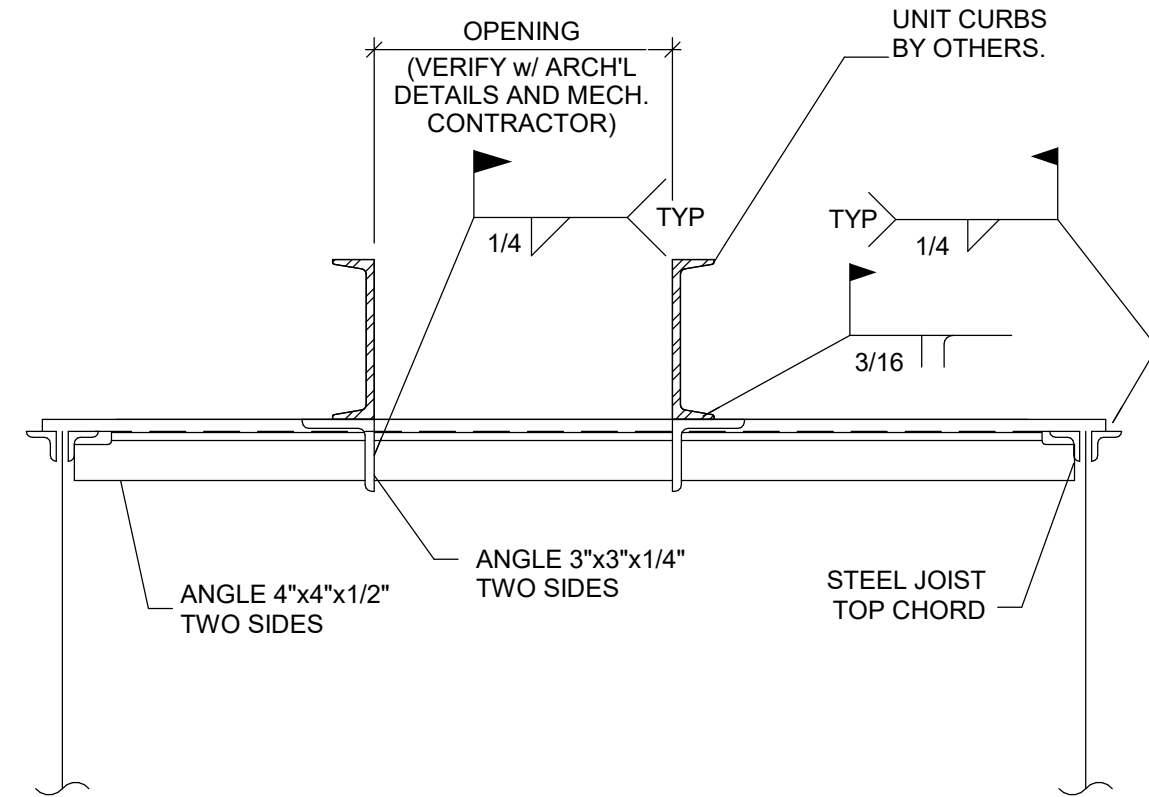
4 STEEL JOIST TO STEEL BEAM
1" = 1'-0"



1 STEEL JOIST TO 8" CMU WALL
1" = 1'-0"



11 TYPICAL TOP CHORD REINFORCEMENT FOR KCS OR K-SERIES JOISTS DETAIL
1" = 1'-0"



8 ROOF OPENING
1" = 1'-0"

PER SCHED

3" 1 1/2" 1/4" THK. END PLATE

3" 1 1/2"

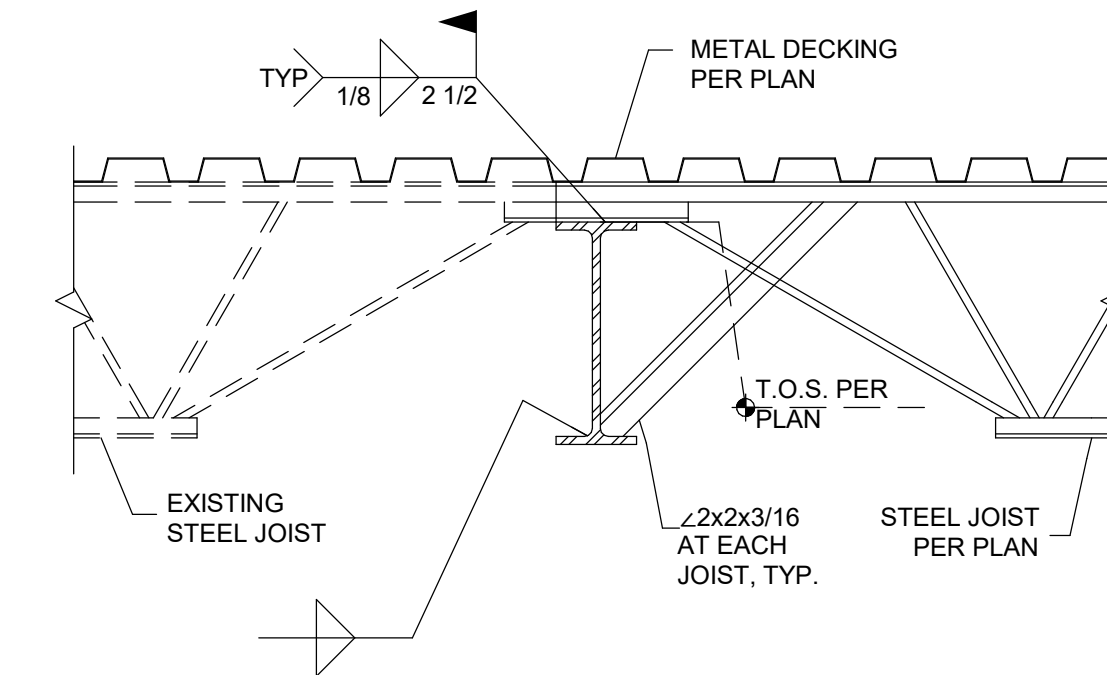
NUMBER OF BOLTS PER SCHEDULE

PERP. PLATE FOR PERP. BEAM AS OCCURS COLUMN PER PLAN

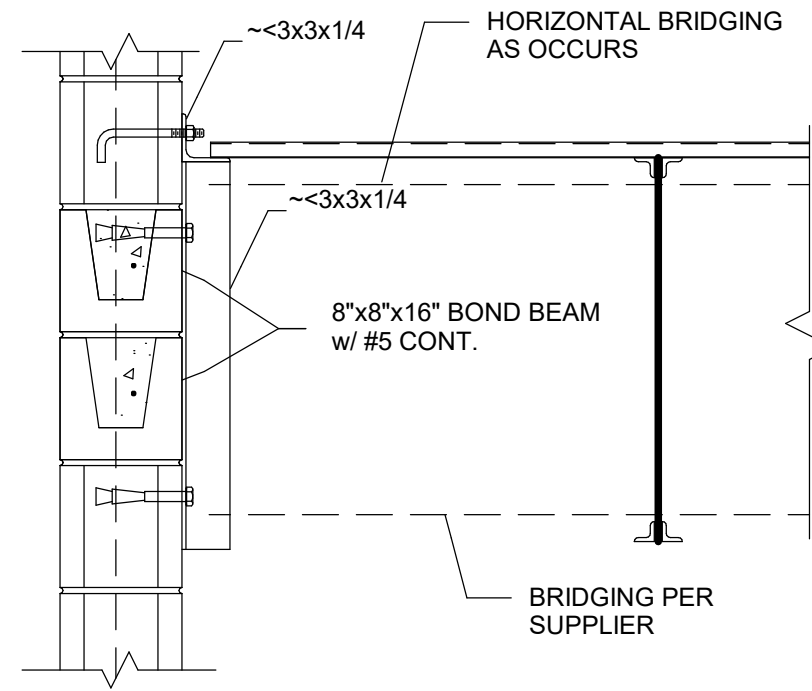
| BEAM DEPTH "D" | SHEAR/STIFF PLATE | NO. & SIZE OF A325N BOLTS | WELD SIZE |
|----------------|-------------------|---------------------------|-----------|
| 8, 10 | 1/4" | (2) 5/8" DIA. | 1/4" |
| 12, 14 | 1/4" | (3) 3/4" DIA. | 1/4" |
| 16 | 3/8" | (4) 3/4" DIA. | 3/8" |
| 18 | 3/8" | (5) 3/4" DIA. | 3/8" |
| 21 | 1/2" | (6) 3/4" DIA. | 3/8" |
| 27 | 1/2" | (8) 3/4" DIA. | 3/8" |
| 30 | 3/4" | (9) 3/4" DIA. | 3/8" |
| 33 | 3/4" | (10) 3/4" DIA. | 3/8" |

PLATE THICKNESS PER SCHED.

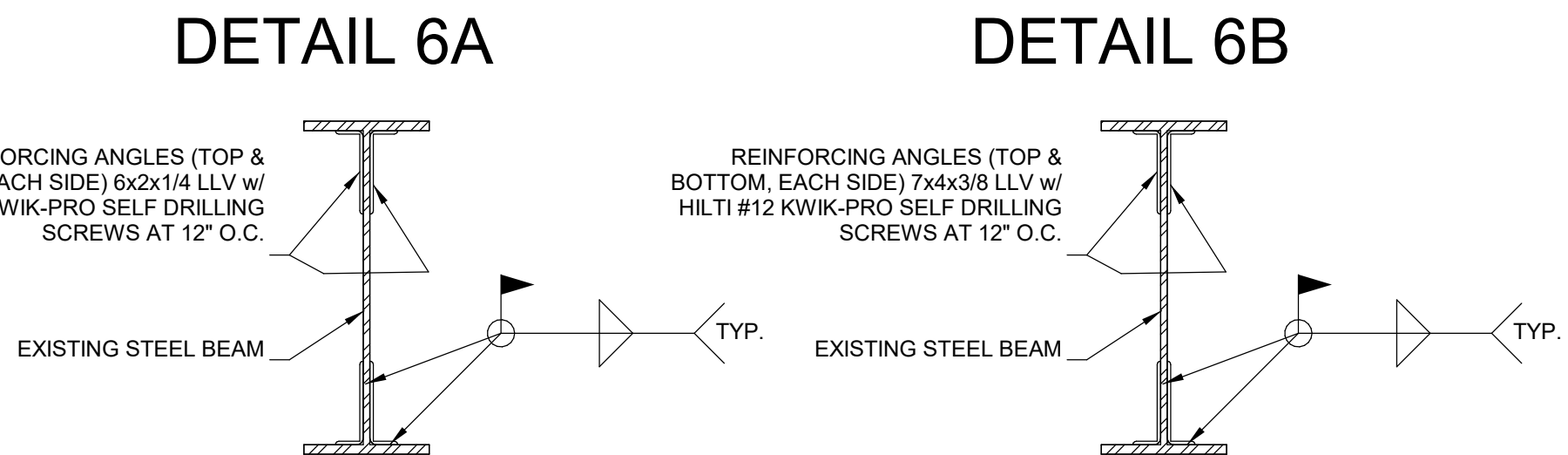
5 STEEL BEAM TO COLUMN CONNECTION -2
1" = 1'-0"



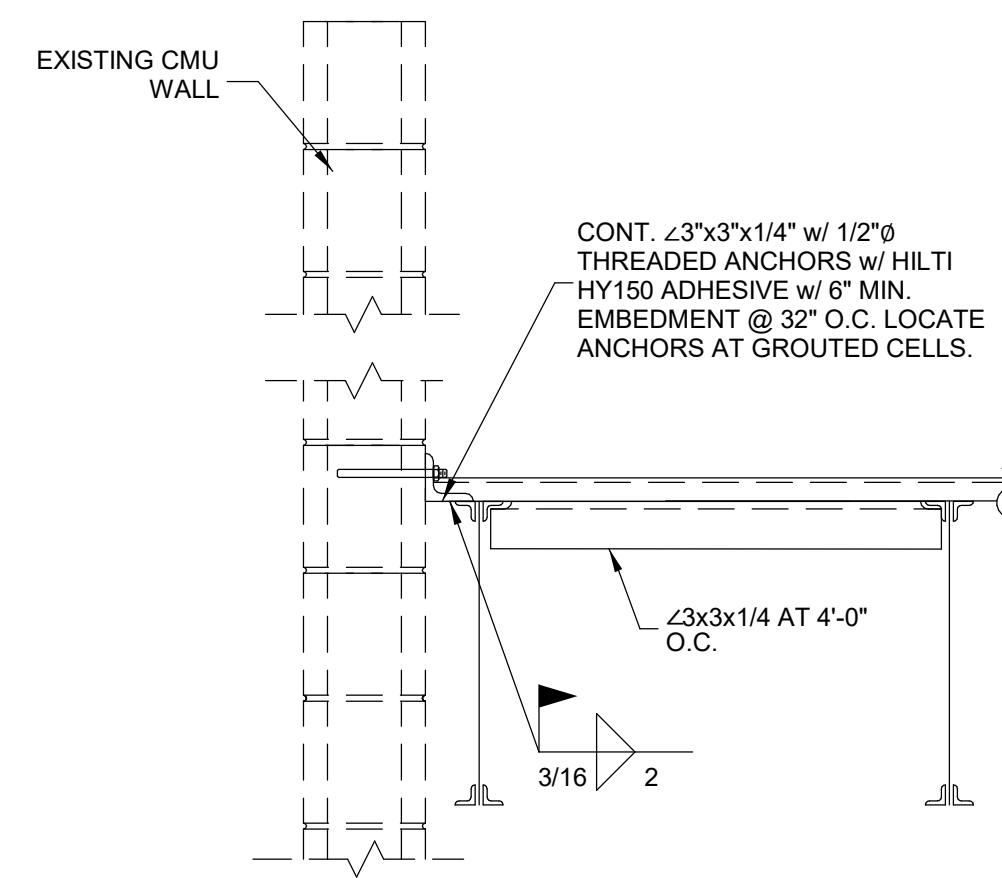
2 STEEL JOIST TO STEEL BEAM
1" = 1'-0"



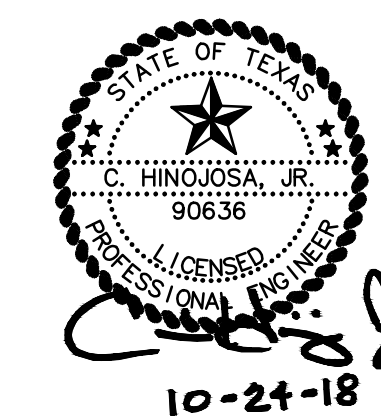
9 BRIDGING TO CMU
1" = 1'-0"



6 STEEL BEAM REINFORCING AT MECH'L UNIT
1" = 1'-0"



3 STEEL JOIST TO 8" CMU WALL -3
1" = 1'-0"



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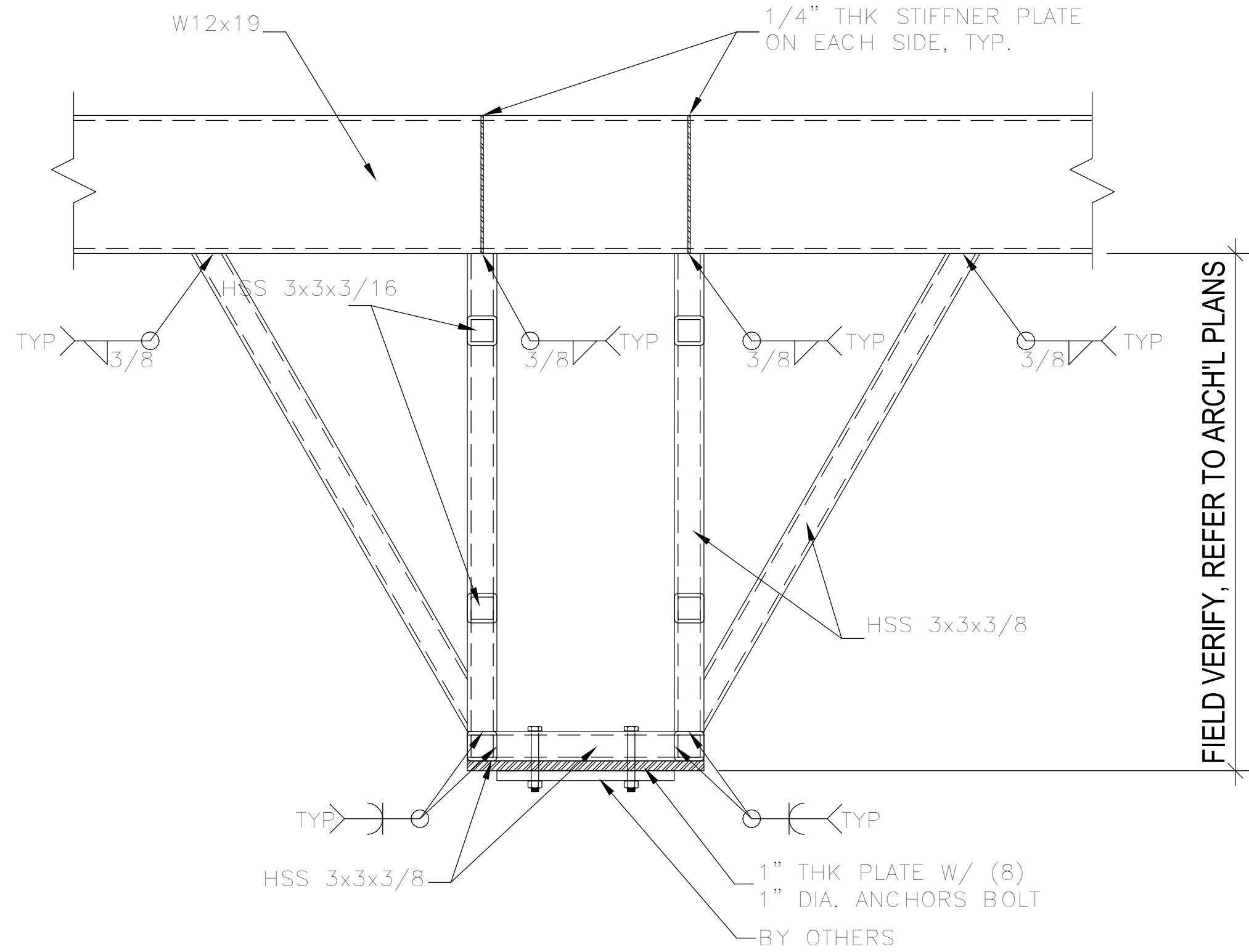
Boutinghouse Simpson Gates ARCHITECTS
3301 N MCCOLL RD | McALLEN, TX 78501 | P 956.630.9494 | F 956.630.2039

FRAMING DETAILS
PROJECT NAME: UTRGV - SCHOOL OF MEDICINE - JACKSON RD.
OWNER: UTRGV
PROJECT ADDRESS: #2 Street
City, State Zip

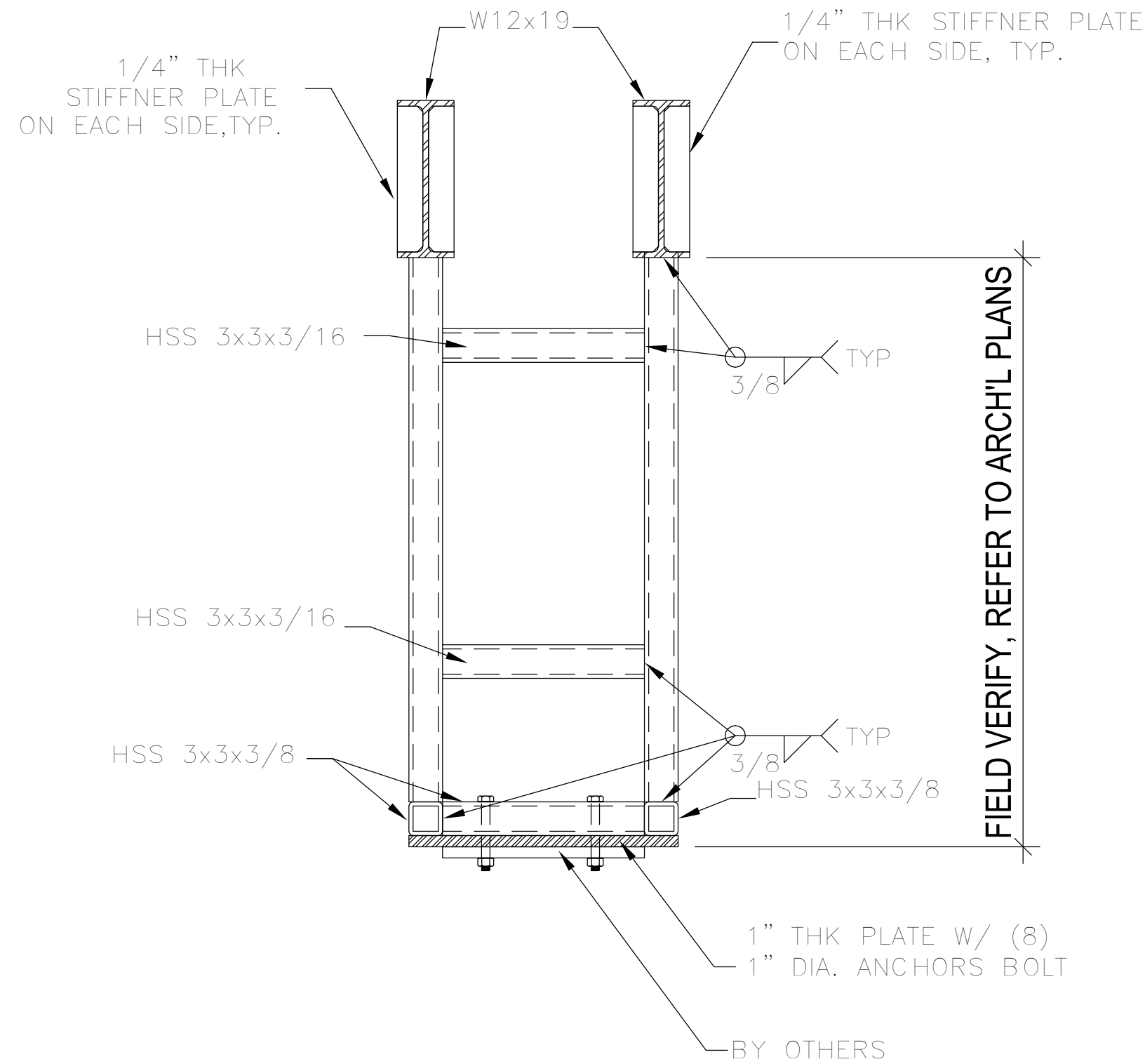
ISSUE DATE: 08/12/18

PROJECT NO: Project Number
REVISIONS:

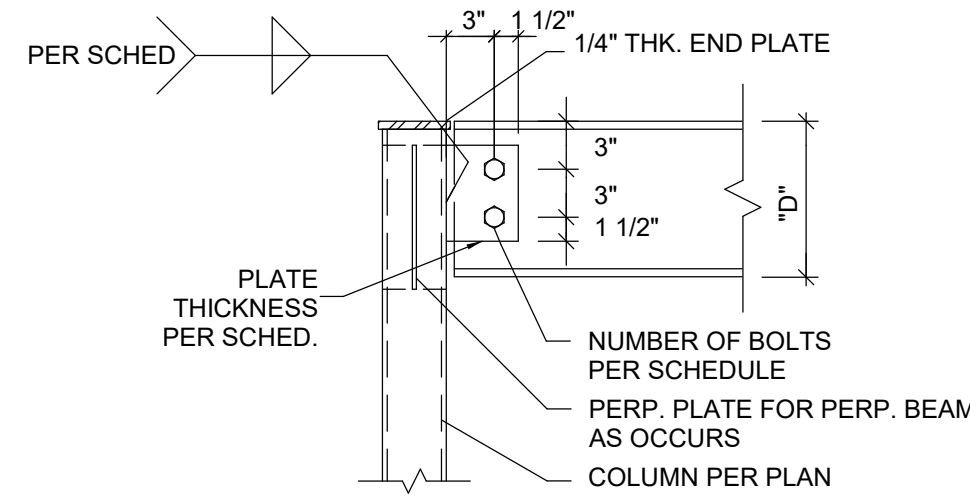
SHEET NUMBER: SD2.0



6 STEEL JOIST TO STEEL BEAM
1" = 1'-0"

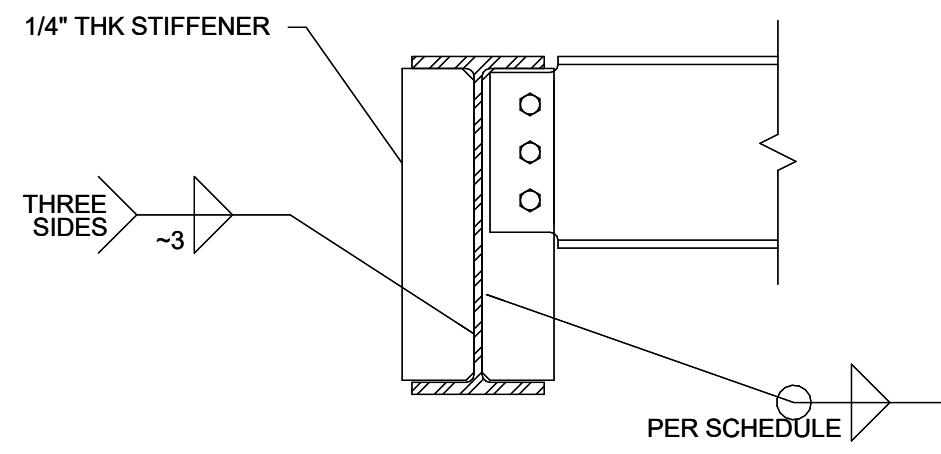


7 STEEL JOIST TO STEEL BEAM
1" = 1'-0"



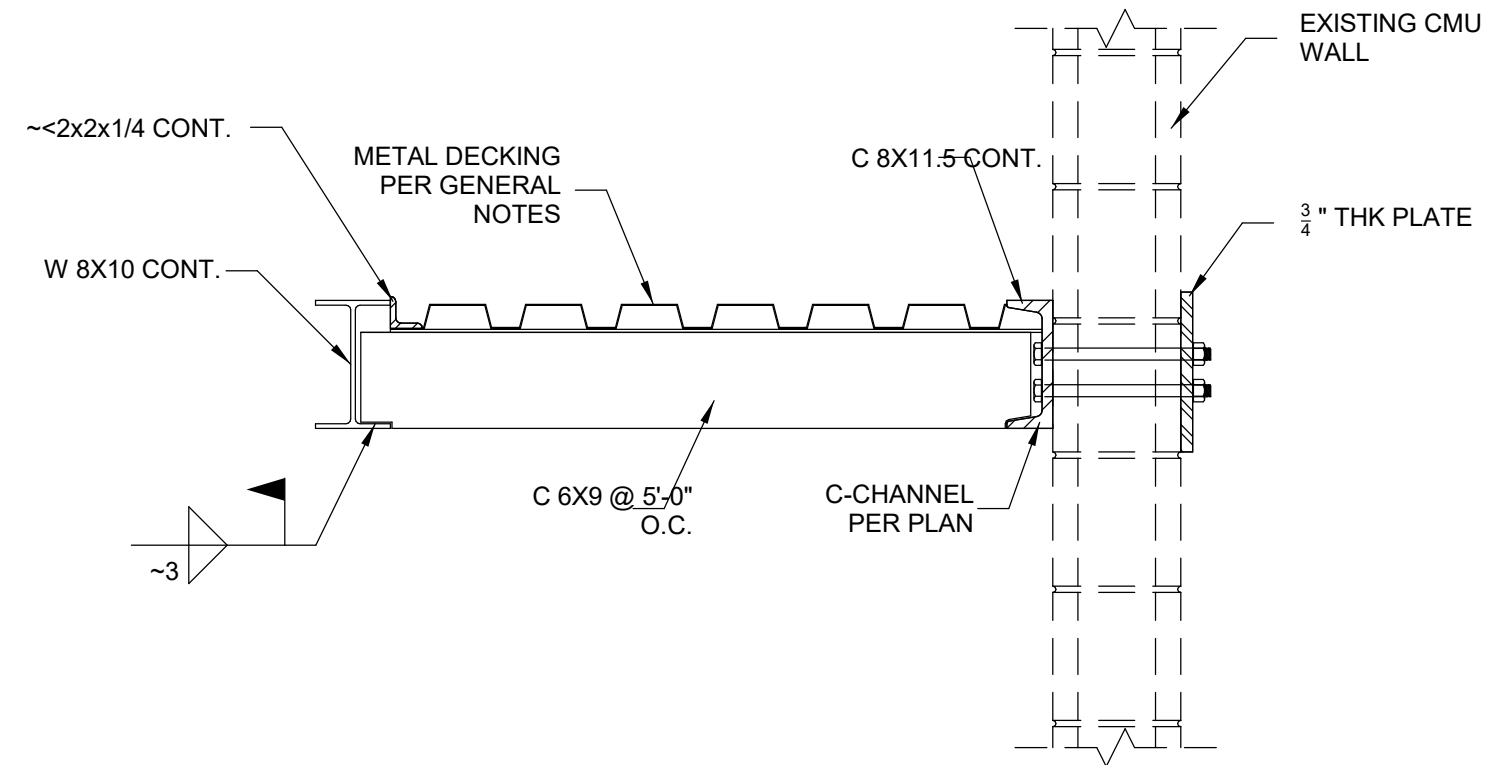
| SIMPLE BEAM CONNECTION SCHEDULE | | | | |
|---------------------------------|--------------------|---------------------------|-----------|--|
| BEAM DEPTH "D" | SHEAR/ STIFF PLATE | NO. & SIZE OF A325N BOLTS | WELD SIZE | |
| 8, 10 | 1/4 | (2) 5/8" DIA. | 1/4" | |
| 12, 14 | 1/4 | (3) 3/4" DIA. | 1/4" | |
| 16 | 3/8 | (4) 3/4" DIA. | 3/8" | |
| 18 | 3/8 | (5) 3/4" DIA. | 3/8" | |
| 21 | 1/2 | (6) 3/4" DIA. | 3/8" | |
| 27 | 1/2 | (8) 3/4" DIA. | 3/8" | |
| 30 | 3/4 | (9) 3/4" DIA. | 3/8" | |
| 33 | 3/4 | (10) 3/4" DIA. | 3/8" | |

4 STEEL BEAM TO COLUMN CONNECTION
1" = 1'-0"

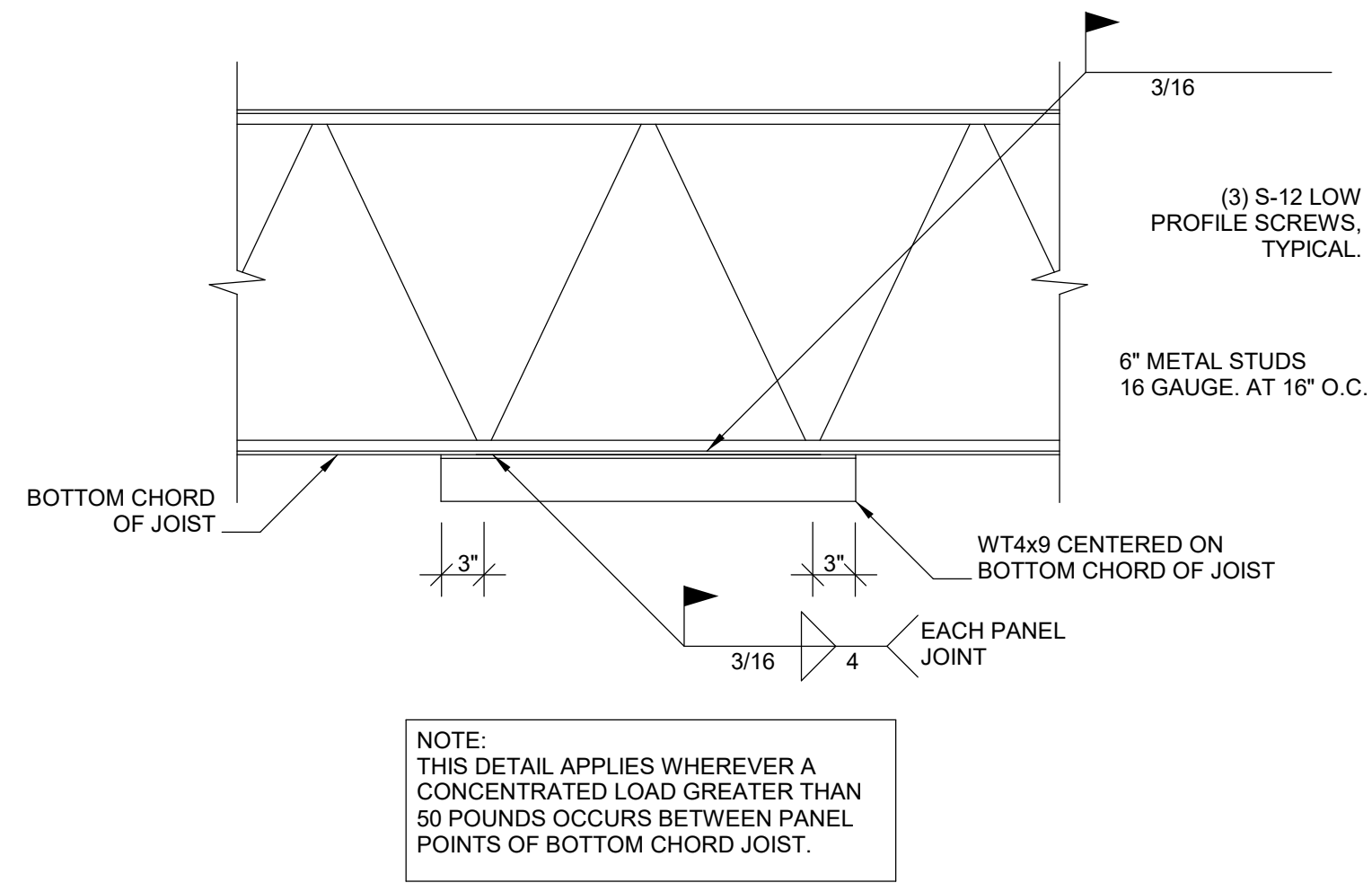


| SIMPLE BEAM CONNECTION SCHEDULE | | | | |
|---------------------------------|--------------------|--------------------------|-----------|---------|
| BEAM DEPTH "D" | SHEAR/ STIFF PLATE | NO. & SIZE OF A325 BOLTS | WELD SIZE | REMARKS |
| 8, 10 | 1/4 | (2) 3/4" DIA. | 3/16" | |
| 12, 14 | 3/8 | (3) 3/4" DIA. | 1/4" | |
| 16 | 3/8 | (4) 3/4" DIA. | 1/4" | |
| 18 | 1/2 | (5) 3/4" DIA. | 3/8" | |
| 21 | 1/2 | (6) 3/4" DIA. | 3/8" | |
| 24 | 1/2 | (7) 3/4" DIA. | 3/8" | |

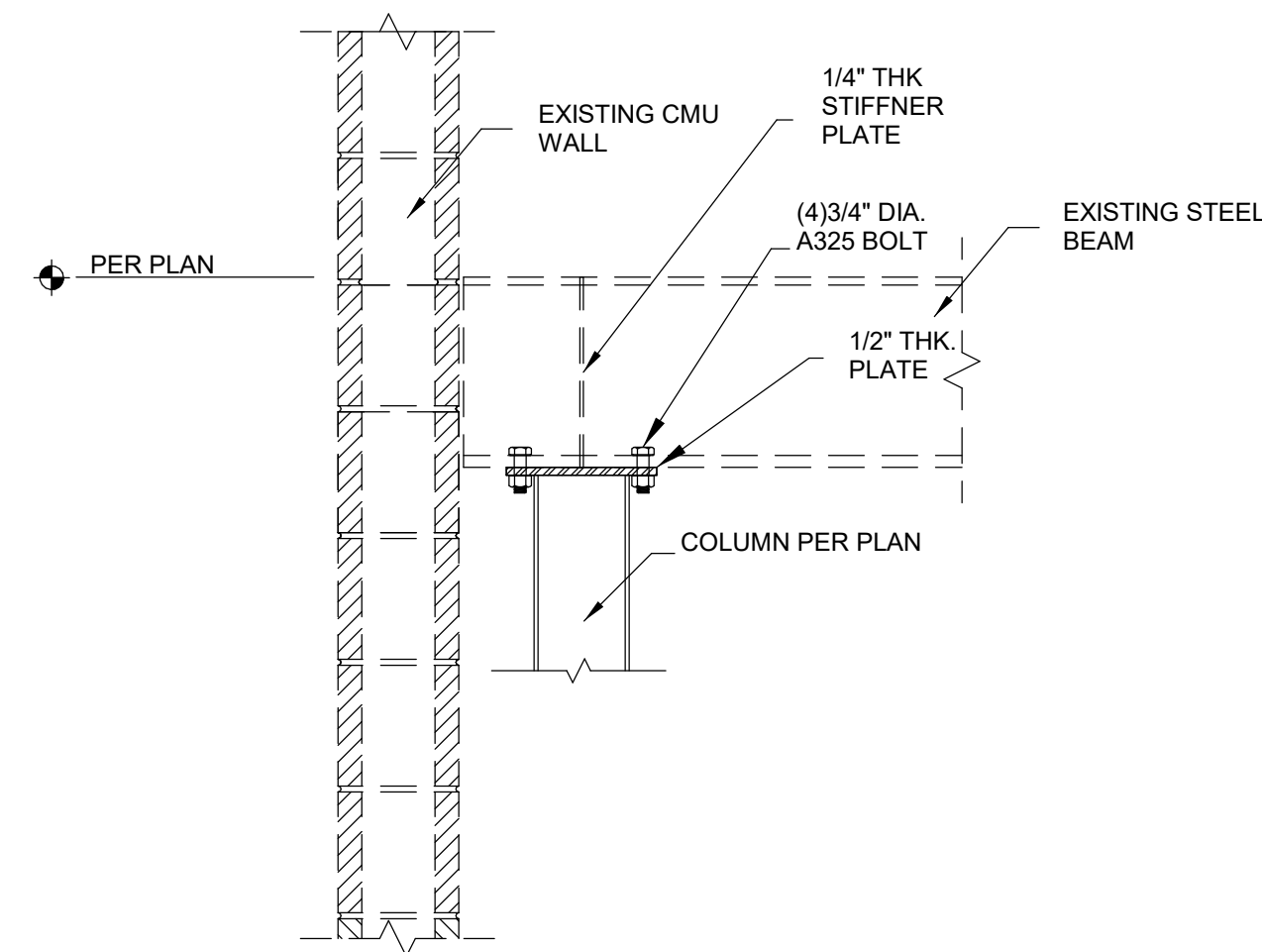
5 SIMPLE BEAM CONNECTION SCHEDULE
1" = 1'-0"



1 CANOPY SECTION
1" = 1'-0"



2 TYPICAL JOSIT BOTTOM CHORD REINFORCEMENT
1" = 1'-0"



3 COLUMN TO EXISTING STEEL BEAM
1" = 1'-0"



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SHEET TITLE
PROJECT NAME
PROJECT ADDRESS
OWNER
City, State Zip

FRAMING DETAILS
UTRGV - SCHOOL OF MEDICINE - JACKSON RD.
UTRGV

ISSUE DATE
08/12/18

PROJECT NO
Project Number
REVISIONS

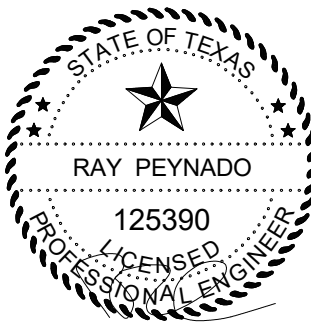
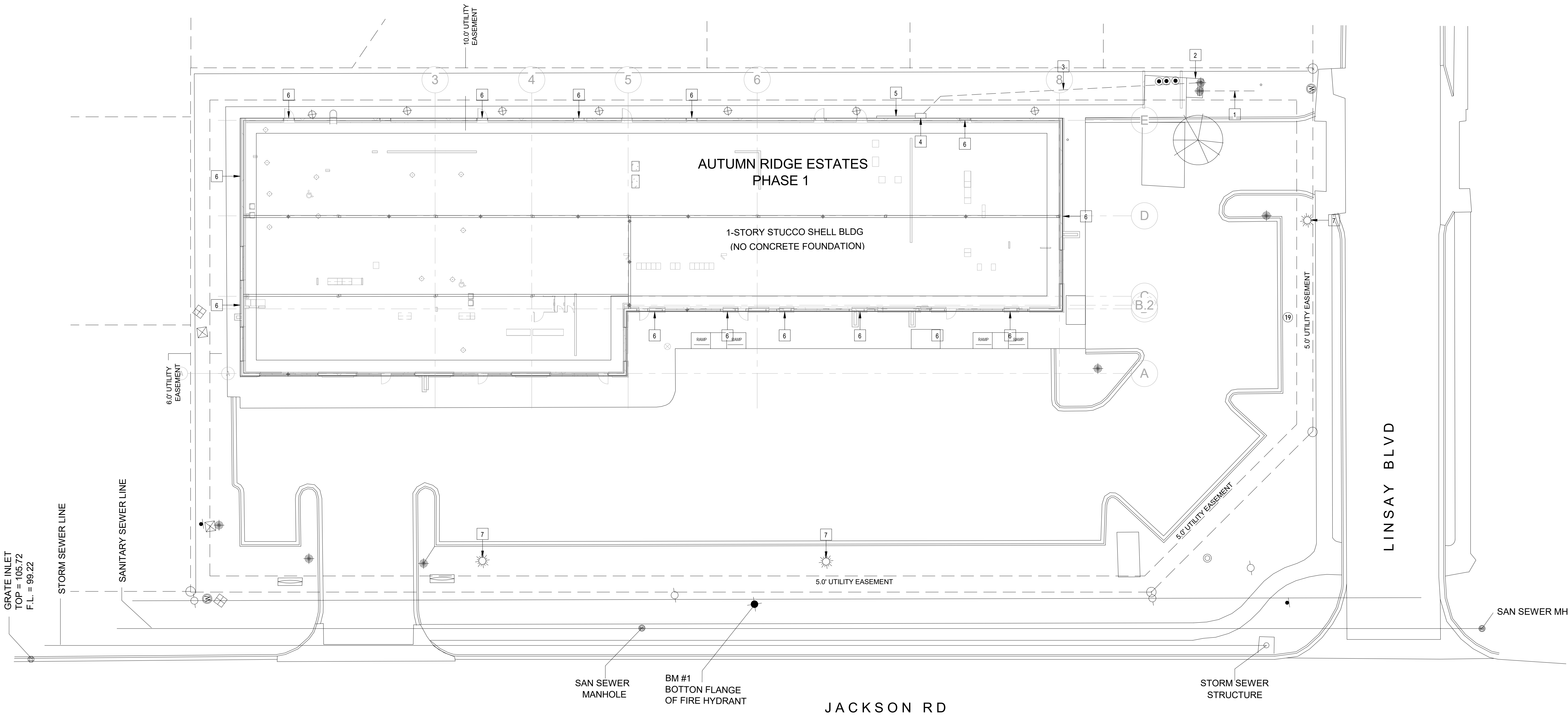
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ELECTRICAL KEYED NOTES:

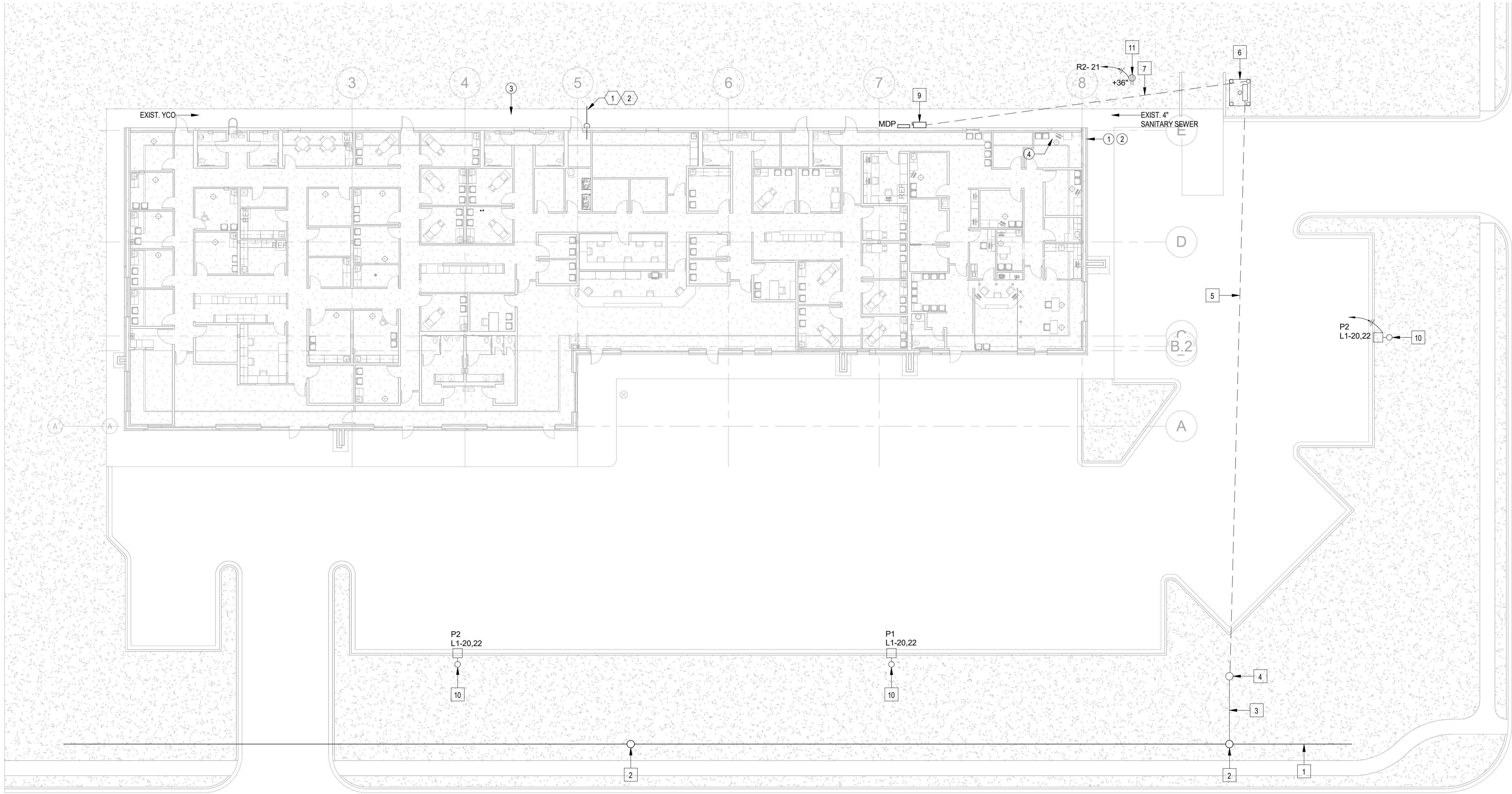
- 1
- EXISTING ELECTRIC UTILITY PRIMARY RACEWAYS. FIELD VERIFY EXACT STUB-OUT LOCATION.
- 2
- EXISTING ELECTRIC UTILITY CONCRETE PAD TO BE RETAINED AND RE-USED.
- 3
- EXISTING UNDERGROUND SECONDARY RACEWAYS TO BE RETAINED AND RE-USED.
- 4
- EXISTING 1,200A, 3P3F, 240V, NEMA 3R, S/N, MAIN SWITCH DISCONNECT TO BE RETAINED AND RE-USED.
- 5
- DISCONNECT AND REMOVE EXISTING WIREWAY, METER SOCKETS, DISCONNECT, HOUSE PANEL AND TIME CLOCK FOR REMOVAL ALONG WITH RELATED RACEWAYS AND SUPPORT HARDWARE.
- 6
- DISCONNECT AND REMOVE EXISTING EXTERIOR LIGHT FIXTURE. RETAIN AND RE-USE EXISTING BACKBOX AND RACEWAYS.
- 7
- DISCONNECT AND REMOVE EXISTING POLE MOUNTED FLOOD LIGHTS. RETAIN AND RE-USE EXISTING POLE, MOUNTING HARDWARE AND RACEWAYS.

GENERAL NOTES:

1.
- REMOVED MATERIALS SHALL BELONG TO OWNER. DELIVER THEM TO OWNERS DESIGNATED LOCATION. IF OWNER DOES NOT WANT THE REMOVED MATERIALS THEN REMOVE THEM FROM SITE AND PROPERLY DISPOSE OF THEM.
2.
- REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR WALLS AND CEILINGS TO BE REMOVED.
3.
- REFER TO ARCHITECTURAL SPECIFICATIONS FOR PHASING REQUIREMENTS.



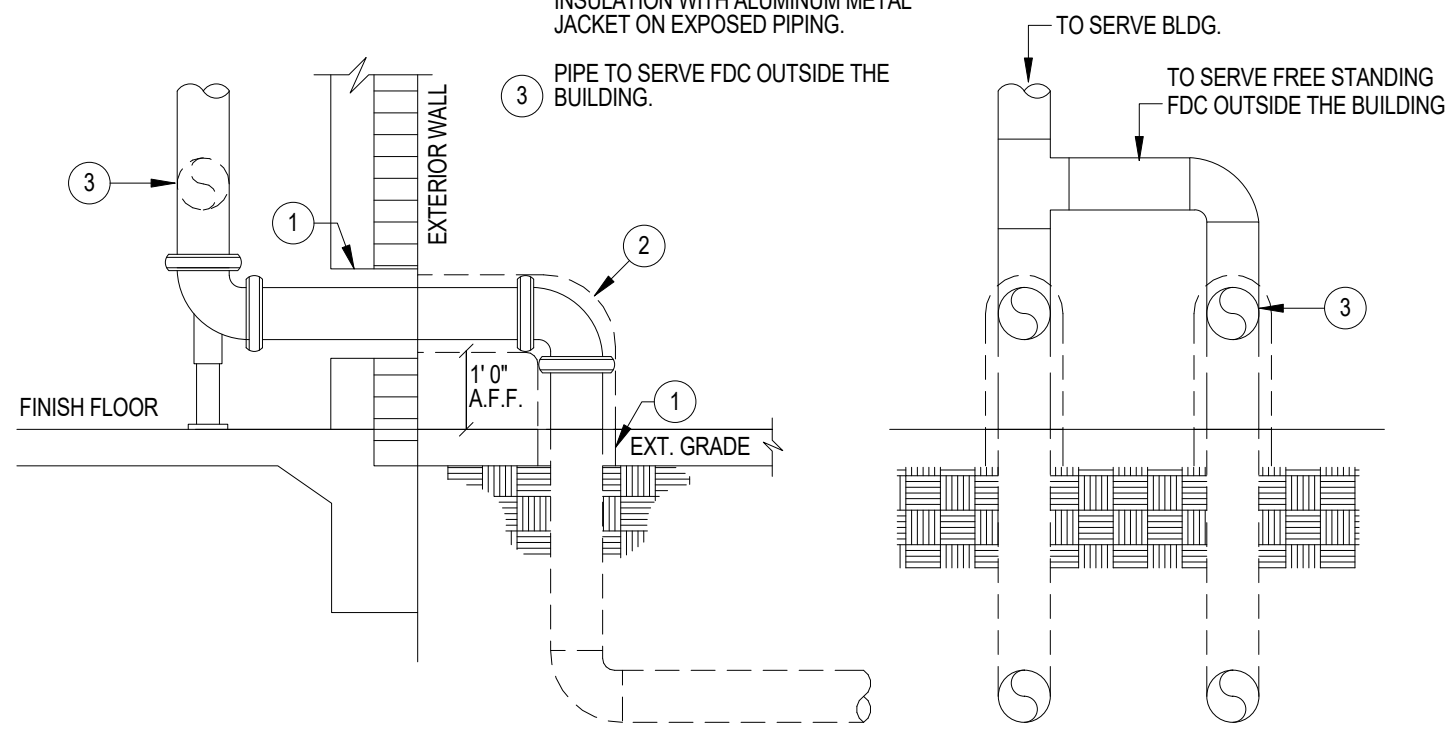
119 W. VAN BUREN AVE. STE. 101
PHONE: 956-230-3435
TEXAS REGISTERED
ENGINEERING FIRM
F-15998



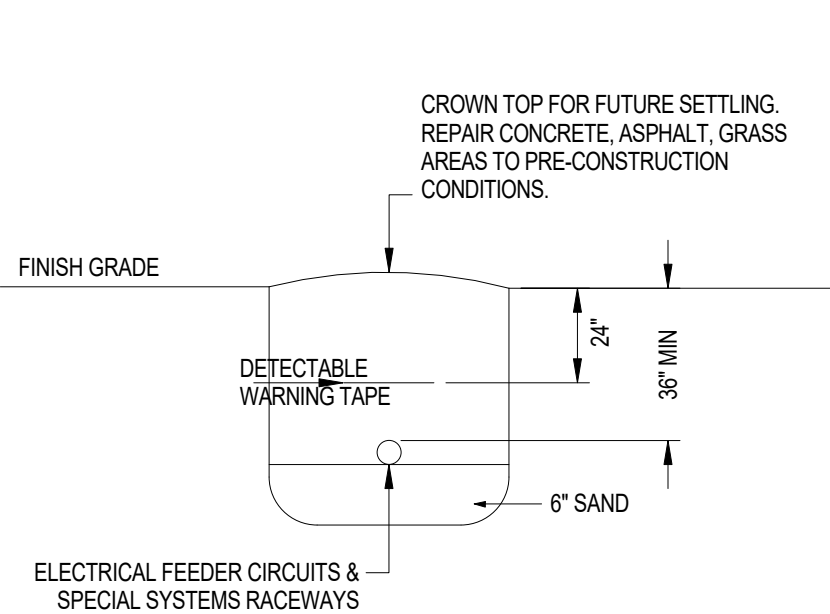
1 MEP Site Plan - Renovation
1/16" = 1'-0"

KEYED NOTES

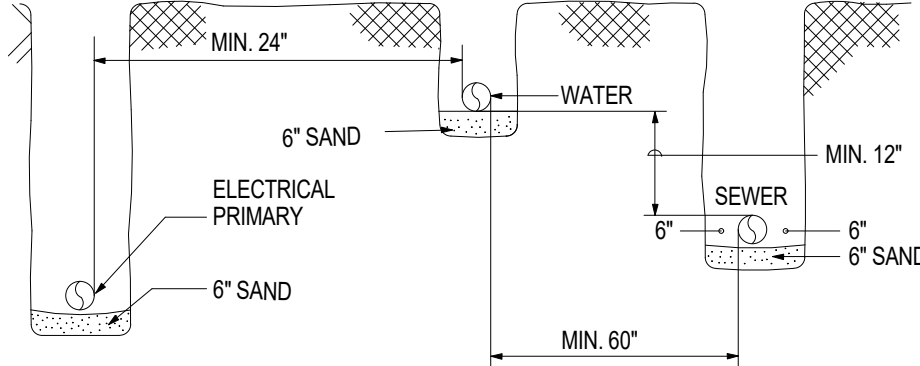
- 1 SLEEVE.
- 2 PROVIDE 1" CLOSED-CELL INSULATION WITH ALUMINUM METAL JACKET ON EXPOSED PIPING.
- 3 PIPE TO SERVE FDC OUTSIDE THE BUILDING.



02 FIRE RISER ENTRANCE DETAIL
SCALE : NOT TO SCALE



03 BURIAL DETAIL FOR ELECTRICAL RACEWAYS
SCALE : NONE



- NOTES:
1. CLEAR TRENCH OF ALL ROCKS AND DEBRIS BEFORE ADDING SAND CUSHION.
 2. COMPACT TRENCH FILL TO 95% PROCTOR DENSITY.
 3. MAINTAIN A MINIMUM OF 60 INCHES UNDISTURBED EARTH BETWEEN PARALLEL WATER AND SEWER LINES OR SUPPORT WATER LINE ON SEPARATE SHELF A MINIMUM OF 12" ABOVE SEWER LINE.
 4. MAINTAIN A MINIMUM OF 24" HORIZONTALLY BETWEEN ELECTRICAL PRIMARY AND SEWER. MAINTAIN A MINIMUM OF 12" VERTICALLY OR 24" HORIZONTALLY BETWEEN ELECTRICAL PRIMARY AND WATER LINES, GAS LINES, TELEPHONE RACEWAYS AND CABLE RACEWAYS.

04 TRENCHING DETAIL
SCALE : NONE

PLUMBING KEYED NOTES:

- 1 RETAIN AND RE-USE EXISTING 2" DOMESTIC WATER LINE AT THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION.
- 2 CONNECT NEW 2" DOMESTIC WATER LINE INTO EXISTING 2" WATER LINE AT THIS APPROXIMATE LOCATION.
- 3 RETAIN AND RE-USE EXISTING 4" SANITARY SEWER LINE AT THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION.
- 4 CONNECT NEW 4" SANITARY SEWER PIPING INTO EXISTING AT THIS APPROXIMATE LOCATION. SEE WASTE & VENT PLANS FOR MORE INFORMATION.

FIRE SUPPRESSION KEYED NOTES:

- 1 PROVIDE 4" FIRE SPRINKLER LINE. REFER TO CIVIL DRAWING FOR FIRE LINE CONTINUATION. VERIFY SIZE OF FIRE SPRINKLER LINE BY MEANS OF CALCULATION AND COORDINATE WITH GENERAL CONTRACTOR. COORDINATE FREE STANDING FDC AND PROVISION OF BACKFLOW PREVENTER WITH CIVIL. REFER TO PLUMBING SHEETS AND SPECIFICATIONS FOR MORE INFORMATION.
- 2 PROVIDE 4" FIRE SPRINKLER LINE TO SERVE FREE STANDING FDC OUTSIDE THE BUILDING. COORDINATE WITH CIVIL. VERIFY SIZE OF FIRE SPRINKLER LINE BY MEANS OF CALCULATION AND COORDINATE WITH GENERAL CONTRACTOR.

GENERAL NOTES:

1. COORDINATE WORK AMONG ALL DISCIPLINES. IT IS NOT THE INTENT OF THESE DOCUMENTS TO DICTATE WHO MUST DO THE WORK. ALL WORK SHOWN IS THE RESPONSIBILITY OF THE (PRIME) CONTRACTOR.
2. FIELD VERIFY PROJECT SITE EXISTING CONDITIONS AND ELEVATIONS PRIOR TO BEGINNING ANY WORK.
3. COORDINATE ELECTRICAL AND PLUMBING WITH GENERAL CONSTRUCTION.
4. PHASING AND SEQUENCE OF CONSTRUCTION SHALL BE PER ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
5. FIELD VERIFY/SPOT EXACT LOCATIONS AND EXISTING CONDITIONS OF EXISTING PLUMBING, AND ELECTRICAL. IT IS THE INTENT OF THESE PLANS TO PROVIDE A COMPLETE AND WORKABLE SYSTEMS. SHOULD BIDDER FIND OMISSIONS OR DISCREPANCIES IN THE PLANS, BIDDER SHALL NOTIFY THE ENGINEER PRIOR TO THE BID DATE AND A WRITTEN CLARIFICATION WILL BE ISSUED.
6. DAMAGED ITEMS SHALL BE REPAIRED AT NO ADDITIONAL COST TO OWNER. CONTRACTORS ARE REQUIRED TO SEARCH AND INVESTIGATE FOR EXISTING UTILITIES BEFORE EXCAVATING.
7. ALL MATERIALS AND LABOR, WHETHER SPECIFICALLY INDICATED ON PLANS OR NOT, WHICH ARE NECESSARY FOR THE PROPER INSTALLATION AND FUNCTION OF THE SYSTEM SHALL BE FURNISHED BY THIS CONTRACTOR. INCLUDE ALL COSTS OF CHANGES, IF/AS REQUIRED IN BID PROPOSAL.
8. PROVIDE J-BOXES (POLYMER CONCRETE) AS REQUIRED FOR PULL WIRING.
9. ELECTRICAL WIRING SHALL NOT BE SPLICED BELOW GRADE.
10. PERFORM ALL WORK PER LATEST VERSION OF NATIONAL ELECTRICAL CODE, AND APPLICABLE LOCAL CODES AND ORDINANCES, UNLESS DRAWINGS OR SPECIFICATIONS HAVE MORE STRINGENT REQUIREMENTS.
11. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND FEES ASSOCIATED WITH PROJECT, INCLUDING FEES FOR INSPECTIONS, APPLICATIONS, AND PROVISION OF NEW SERVICES.
12. CONTRACTOR WHO WILL ACTUALLY PERFORM WORK MUST APPLY FOR ALL REQUIRED PERMITS.
13. NOTIFY ENGINEER OF ANY ASPECTS OF DESIGN WHICH ARE THOUGHT TO BE IN NONCOMPLIANCE WITH APPLICABLE CODES.
14. COORDINATE ALL WORK WITH OTHER TRADES. COORDINATE SCHEDULE OF WORK WITH ALL SUB-CONTRACTORS TO ACHIEVE SMOOTH FLOW OF CONSTRUCTION.
15. SEAL AROUND ELECTRICAL RACEWAYS AT ALL WALLS, A/C ROOMS AND WALL LOUVER PENETRATIONS WITH FIREPROOF CAULKING. RE: SPECS. PROVIDE FLASHING AROUND PENETRATION, BOTH INSIDE AND OUTSIDE, TO PROVIDE FINISHED LOOK.
16. TIME OR MONEY ALLOWANCES WILL NOT BE MADE TO ACCOMMODATE UTILITY CONFLICTS THAT CAN BE REASONABLY RESOLVED BY COORDINATION DURING SHOP DRAWING PHASE.
17. CONTRACTOR SHALL REVIEW COMPLETE DOCUMENTS PRIOR TO SUBMITTAL OF PROPOSAL TO GAIN COMPLETE UNDERSTANDING OF PROJECT SCOPE. WORK BY OTHERS, AND ELECTRICAL WORK ASSOCIATED WITH OTHER DISCIPLINES.
18. MAINTAIN MANUFACTURER RECOMMENDED CLEARANCE AROUND ALL EQUIPMENT.
19. AFFIX ID TAGS TO ALL DIVISION 26 EQUIPMENT.
20. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH MECHANICAL AND PLUMBING CONTRACTOR REGARDING EQUIPMENT SIZES AND TYPES OF ELECTRICAL INTERFACE EQUIPMENT REQUIRED.
21. FIELD VERIFY ALL CONDITIONS AND MEASURE DIMENSIONS WITHIN THE BUILDING PRIOR TO ORDERING EQUIPMENT AND/OR PROCEEDING WITH INSTALLATION.
22. ALL EQUIPMENT SHALL BE FACTORY TESTED, AND CONTRACTOR SHALL VERIFY THEIR CONDITION PRIOR TO INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT DAMAGED DURING MOVING AND INSTALLATION.
23. EQUIPMENT FOUND DEFECTIVE PRIOR TO FINAL ACCEPTANCE SHALL BE REPLACED AT NO COST TO OWNER.
24. WORK TO BE DONE UNDER ALLOWANCES BECOMES AN INTEGRAL PART OF THE PROJECT AND RESPONSIBILITY OF CONTRACTOR ONCE ALLOWANCE IS APPROVED.
25. SLEEVE ALL EXTERIOR WALL PENETRATIONS.
26. CONTRACTOR SHALL NOT PROCEED WITH ANY WORK INVOLVING A CHANGE IN PROJECT SCOPE OR COST WITHOUT FIRST HAVING OBTAINED ENGINEER'S APPROVAL IN WRITING. UNLESS ENGINEER HAS AGREED TO SUCH CHANGE PRIOR TO IT BEING DONE, AND HAS AGREED THAT AN INCREASE IN COST ASSOCIATED WITH SUCH CHANGE IS WARRANTED; CONTRACTOR WILL NOT BE REIMBURSED FOR SUCH CHANGE.

ELECTRICAL KEYED NOTES:

- 1 EXISTING ELECTRIC UTILITY 3 PHASE OVERHEAD SERVICE LINES.
- 2 EXISTING ELECTRIC UTILITY POWER POLE.
- 3 NEW OVERHEAD UTILITY POWER LINE.
- 4 NEW ELECTRIC UTILITY POWER POLE WITH RISER DIP POLE.
- 5 PROVIDE NEW UNDERGROUND PRIMARY ELECTRIC CONDUITS WITH 2" RED CONCRETE. RE-USE PORTION OF EXISTING. SEE RISER DIAGRAM.
- 6 PROVIDE NEW ELECTRIC UTILITY PAD MOUNT TRANSFORMER ON EXISTING CONCRETE PAD.
- 7 PROVIDE NEW UNDERGROUND SECONDARY FEEDERS IN EXISTING RACEWAYS.
- 8 PROVIDE NEW ELECTRIC UTILITY SERVICE METER ON FREE STANDING RACK.
- 9 EXISTING BUILDING MAIN SWITCH DISCONNECT.
- 10 PROVIDE NEW POLE LIGHTS. SWITCH EXTERIOR POLE LIGHTS THROUGH RELAY PANEL. BRANCH CIRCUIT: 1" - 2#8 & #10G. SEE CORRESPONDING PANEL SCHEDULE.
- 11 CONNECT IRRIGATION CONTROLLER.



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CODES & ORDINANCES:

1. GENERAL:

a. UNLESS DRAWINGS OR SPECIFICATIONS HAVE MORE STRINGENT REQUIREMENTS, PERFORM ALL WORK PER APPLICABLE VERSION OF INTERNATIONAL BUILDING CODES, AND LOCAL CODES AND ORDINANCES.

b. PRIOR TO SUBMITTING PROPOSAL, NOTIFY ENGINEER OF ANY ASPECTS OF DESIGN WHICH ARE THOUGHT TO BE IN NONCOMPLIANCE WITH APPLICABLE CODES.
3. PERMITS:

a. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND FEES ASSOCIATED WITH PROJECT, INCLUDING FEES FOR INSPECTIONS, APPLICATIONS, AND PROVISION OF NEW SERVICES.

b. CONTRACTOR WHO WILL ACTUALLY PERFORM WORK MUST APPLY FOR ALL REQUIRED PERMITS.
4. APPROVALS AND INSPECTIONS:

a. OBTAIN APPROVAL FROM CITY FIRE DEPARTMENT AND BUILDING AND SAFETY DEPARTMENT PRIOR TO INSTALLATION OF ANY FIRE RELATED ITEMS.

b. COORDINATE PRESSURE TESTS, INSPECTIONS AND APPROVAL FOR ALL SYSTEMS WITH PERMITTING OFFICER, OWNER AND ENGINEER.

GENERAL NOTES:

1. CONTRACT RELATED:

a. COORDINATE WORK AMONG ALL DISCIPLINES. IT IS NOT THE INTENT OF THESE DOCUMENTS TO DICTATE WHO MUST DO THE WORK. ALL WORK SHOWN IS THE RESPONSIBILITY OF THE (PRIME) CONTRACTOR.

b. WORK TO BE DONE UNDER ALLOWANCES BECOMES AN INTEGRAL PART OF THE PROJECT AND RESPONSIBILITY OF CONTRACTOR ONCE ALLOWANCE IS APPROVED.

c. CONTRACTOR SHALL NOT PROCEED WITH ANY WORK INVOLVING A CHANGE IN PROJECT SCOPE OR COST WITHOUT FIRST HAVING OBTAINED ENGINEER'S APPROVAL IN WRITING. UNLESS ENGINEER HAS AGREED TO SUCH CHANGE PRIOR TO IT BEING DONE, AND HAS AGREED THAT AN INCREASE IN COST ASSOCIATED WITH SUCH CHANGE IS WARRANTED, CONTRACTOR WILL NOT BE REIMBURSED FOR SUCH CHANGE.
2. TEST & BALANCE:

a. TEST & BALANCE SHALL BE PERFORMED UNDER GENERAL CONTRACTOR, SEPARATE FROM MECHANICAL CONTRACT. DURING BIDDING, CONTRACTOR SHALL SUBMIT A COPY OF EVIDENCE THAT TAB AGENT MEETS THE QUALIFICATIONS SPECIFIED UNDER DIV. 23 SECTION 230593 TO PRIME CONTRACTOR.

b. TEST & BALANCE TO COORDINATE MINIMUM AND MAXIMUM OUTSIDE AIR DAMPER SETTINGS WITH DDC CONTROLS AND ENGINEER. PROVIDE TIME ALLOTMENT FOR MULTIPLE DAMPER SETTINGS IN SOME CASES.

c. CONTRACTOR SHALL COORDINATE TAB ACTIVITIES WITH TAB CONTRACTOR.

COORDINATION:

1. GENERAL:

a. CONTRACTOR SHALL REVIEW COMPLETE DOCUMENTS PRIOR TO SUBMITTAL OF PROPOSAL TO GAIN COMPLETE UNDERSTANDING OF PROJECT SCOPE, WORK BY OTHERS, AND MECHANICAL WORK ASSOCIATED WITH OTHER DISCIPLINES.

b. COORDINATE MECHANICAL WITH OTHER TRADES SUCH AS PLUMBING, ELECTRICAL AND STRUCTURAL WORK.

c. TIME OR MONEY ALLOWANCES WILL NOT BE MADE TO ACCOMMODATE UTILITY CONFLICTS THAT CAN BE REASONABLY RESOLVED BY COORDINATION DURING SHOP DRAWING STAGE.

d. PROVIDE COORDINATION DRAWINGS OF REFLECTED CEILING PLAN AND SECTION ABOVE CEILING SHOWING WORK OF ALL AFFECTED TRADES. DO NOT PROCEED WITH FABRICATION WORK UNTIL COORDINATION DRAWINGS HAVE BEEN APPROVED BY A/E.
2. SITE:

a. TIME OR MONEY ALLOWANCES WILL NOT BE MADE TO ACCOMMODATE UTILITY CONFLICTS THAT CAN BE REASONABLY RESOLVED BY COORDINATION DURING SHOP DRAWING STAGE.
3. ARCHITECTURAL AND STRUCTURAL:

a. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR DETAILS OF CONSTRUCTION, INCLUDING BEAMS, FLOOR AND WALL PENETRATIONS, CHASES, AND REFLECTED CEILING PLANS. VERIFY OPENING SIZES WITH EQUIPMENT FURNISHED.

b. SHALL BE MADE WITHIN MIDDLE 1/3 OF VERTICAL SPAN OF BEAM. SLEEVE ALL EXTERIOR WALL AND GRADE BEAM PENETRATIONS. GRADE BEAM PENETRATIONS

c. SEAL AROUND DUCTS AND PIPING AT ALL WALLS, A/C ROOMS AND WALL LOUVER FLASHING AROUND PENETRATION, BOTH INSIDE AND OUTSIDE. TO PROVIDE FINISHED LOOK, PENETRATIONS WITH FIREPROOF CAULKING. RE: SPECS. PROVIDE ESCUTCHEON PLATES AND
4. SPATIAL COORDINATION:

a. COORDINATE ALL WORK WITH OTHER TRADES; COORDINATE SCHEDULE OF WORK WITH ALL SUB-CONTRACTORS TO ACHIEVE SMOOTH FLOW OF CONSTRUCTION.

b. SPACES ABOVE CEILING ARE CONGESTED. DESIGN INTENT IS THAT UTILITIES BE INSTALLED TIGHT AGAINST CEILING STRUCTURE TO EXTENT POSSIBLE, WHILE RETAINING ADEQUATE MAINTENANCE ACCESS PER CODES.

c. IN CASE OF CONFLICTS, ITEMS SHALL BE ARRANGED ACCORDING TO THE FOLLOWING PRIORITY: LIGHTING, FIRE PROTECTION, HVAC. PROVIDE OFFSETS/RISES/DROPS REQUIRED TO RESOLVE CONFLICTS WITH OTHER UTILITIES, AND TO ACCOMMODATE ALL UTILITIES ABOVE

d. IN GENERAL, REROUTE SMALLER DUCTS/PIPES THROUGH JOISTS TO RESOLVE CONFLICTS WITH LARGER. PERFORM REROUTING IN MOST EFFICIENT MANNER POSSIBLE, AND IN ACCORDANCE WITH INDUSTRY STANDARDS.

e. PROVIDE COORDINATION DRAWINGS OF REFLECTED CEILING PLAN AND SECTION ABOVE CEILING SHOWING WORK OF ALL AFFECTED TRADES. DO NOT PROCEED WITH FABRICATION WORK UNTIL COORDINATION DRAWINGS HAVE BEEN APPROVED BY A/E.

f. IN GENERAL ROUTE DUCTS/PIPES IN MOST EFFICIENT MANNER POSSIBLE, AND IN ACCORDANCE WITH INDUSTRY STANDARDS.

g. AND PIPING RUNNING OVER THESE AREAS. COORDINATE WITH ELECTRICAL CONTRACTOR. SEE ELECTRICAL PLANS FOR EXACT LOCATION OF ELECTRICAL PANELS TO AVOID DUCTWORK

h. ADJUST LOCATION IF NEEDED WITHOUT COMPROMISING AIR DEVICES PERFORMANCE. LOCATE AIR DEVICES AS SHOWN. COORDINATE WITH OTHER TRADES TO AVOID CONFLICT AND
5. CONTROLS:

a. WITH MECHANICAL WORK. REFER TO SPECIFICATIONS FOR CONTROL COMPONENTS AND DEVICES TO BE COORDINATED

b. CONTROLS CONTRACTOR SHALL PROVIDE BUILDING AUTOMATION SYSTEM (BAS) THAT CONTROLS EQUIPMENT SHOWN ON DRAWINGS. CONTROLS CONTRACTOR IS RESPONSIBLE FOR CONTROL COMPONENTS AND SEQUENCING TO BE COORDINATED W/ MECH. WORK. FOR INSTALLING LOW VOLTAGE POWER AND COMMUNICATIONS. REFERENCE SPECIFICATIONS OTHERWISE, INSTALL SENSORS AT 48" ABOVE FINISHED FLOOR. WIRING SHALL BE IN EXACT LOCATION WITH ARCHITECT AND ENGINEER CONCEALED WALLS. IN CASE OF CONFLICTS WITH FURNITURE, WINDOWS, ETC., COORDINATE

EQUIPMENT:

1. EQUIPMENT INSPECTION:

a. FIELD VERIFY ALL CONDITIONS AND MEASURE DIMENSIONS WITHIN THE BUILDING PRIOR TO ORDERING EQUIPMENT AND/OR PROCEEDING WITH INSTALLATION.

b. ALL EQUIPMENT SHALL BE FACTORY TESTED, AND CONTRACTOR SHALL VERIFY EQUIPMENT CONDITION PRIOR TO INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT DAMAGED DURING MOVING AND INSTALLATION.

c. EQUIPMENT FOUND DEFECTIVE PRIOR TO FINAL ACCEPTANCE SHALL BE REPLACED AT NO COST TO OWNER.
2. EQUIPMENT ACCESS:

a. FOR EQUIPMENT WHICH MAY REQUIRE PERIODIC SERVICING (SUCH AS VAV DIFFUSERS OR AIR HANDLERS) AND WHICH IS LOCATED ABOVE A SUSPENDED CEILING, CONTRACTOR IS TO PROVIDE A MARKER ON CEILING GRID WHICH CLEARLY INDICATES WHICH CEILING TILE IS TO BE REMOVED TO MOST CONVENIENTLY ACCESS EQUIPMENT SIDE NEEDING SERVICING. THE MARKER IS TO BE ROUND DOT OF HEAVY DUTY COLORED PAPER, WITH DIRECTION INDICATION, WITH ADHESIVE BACKING. OBTAIN OWNER APPROVAL FOR COLOR, SIZE, AND TYPE PRIOR TO INSTALLATION.

b. INSTALL ALL VALVES, CONTROLS, DAMPERS, FANS, ETC. IN ACCESSIBLE LOCATIONS. PROVIDE ADEQUATELY SIZED ACCESS DOORS WHERE REQUIRED.
3. EQUIPMENT INSTALLATION:

a. PROVIDE SPRING HANGER TYPE VIBRATION ISOLATORS TO SUPPORT SUSPENDED AHUS, FANS AND OTHER POWERED VIBRATING EQUIPMENT. PROVIDE FLEXIBLE DUCT CONNECTORS.

b. FOR ALL AIR CONDITIONING UNITS WHICH ARE LOCATED ABOVE SUSPENDED CEILINGS, OR ABOVE HARDWOOD FLOORS, OR OTHER BUILDING SURFACES / MATERIALS WHICH COULD BE DAMAGED BY LEAKING WATER, PROVIDE A SECONDARY DRAIN PAN BENEATH THE UNIT, WITH EITHER: A) A SEPARATE CONDENSATE DRAIN LINE, COPPER, INSULATED WITH 1/2" ARMAFLEX, AND PIPED TO A SUITABLE DISPOSAL POINT (SUCH AS TO A LAVATORY DRAIN TAILPIECE, FLOOR DRAIN, ETC. DO NOT TERMINATE SECONDARY DRAIN PIPE THROUGH A SUSPENDED CEILING WHERE IT WILL DRIP INTO A SINK OR LAVATORY UNLESS APPROVED BY ENGINEER), OR B) A FLOAT SWITCH OR MOISTURE SENSING SWITCH, LOCATED IN SECONDARY DRAIN PAN, AND ELECTRICALLY INTERLOCKED WITH UNIT FAN TO TURN UNIT OFF WHEN MOISTURE IS SENSED.

c. COMPLETELY WEATHERPROOF ALL EQUIPMENT, DUCTS, PIPES AND OTHER DEVICES AND MATERIALS INSTALLED OUTSIDE THE BUILDING, IN PARKING AREA, OR OTHERWISE EXPOSED TO WEATHER. AS A MINIMUM, WEATHERPROOFING SHALL INCLUDE, BUT IS NOT LIMITED TO THE FOLLOWING: JACKETING FOR ALL PIPING INSULATION, VALVES AND ACCESSORIES RATED FOR OUTDOOR SERVICE, ELECTRICAL ENCLOSURES NEMA 4X-SS, PROVIDE ELECTRICAL HEAT TRACING FOR UTILITIES SUSCEPTIBLE TO FREEZING.

d. AFFIX ID TAGS TO ALL MECHANICAL EQUIPMENT PER SPECIFICATIONS.
4. EQUIPMENT INSULATION:

a. INSULATE ALL SURFACES THAT ARE CAPABLE OF BECOMING COLD AND COLLECTING CONDENSATE. THIS INCLUDES SUPPLY DIFFUSERS AND CONNECTING DUCTWORK / TRANSITION PIECES.
5. PLUMBING:

a. PROVIDE CODE RECOMMENDED CLEARANCE OR MINIMUM 10' BETWEEN EXHAUST FANS DISCHARGES, PLUMBING VENTS AND AIR INTAKES. COORDINATE LOCATIONS WITH PLUMBING CONTRACTOR.

b. PROVIDE INSULATED AND TRAPPED CONDENSATE DRAIN LINES FROM ALL AIR CONDITIONING EQUIPMENT AND TERMINATE TO NEAREST FLOOR DRAIN OR OTHER APPROVED RECEPTACLES. COORDINATE DRAINS WITH PLUMBING.
6. ELECTRICAL:

a. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ELECTRICAL CONTRACTOR REGARDING EQUIPMENT SIZES AND TYPES OF ELECTRICAL INTERFACE EQUIPMENT REQUIRED.

b. DUE TO VARIATIONS IN EQUIPMENT CHARACTERISTICS BY DIFFERENT EQUIPMENT SUPPLIERS, MECHANICAL EQUIPMENT ULTIMATELY PROVIDED MAY DIFFER IN HORSEPOWER OR AMPERAGE REQUIREMENTS FROM THAT SPECIFIED IN THESE DRAWINGS. COORDINATE WITH GENERAL CONTRACTOR PRIOR TO BIDDING, AND PRIOR TO SUBMITTALS AND ORDERING EQUIPMENT, TO ENSURE THAT EQUIPMENT ELECTRICAL REQUIREMENTS ARE CONVEYED TO ELECTRICAL CONTRACTOR. IT IS SOLELY CONTRACTOR'S RESPONSIBILITY TO ENSURE COMPATIBILITY ISSUES ARE COORDINATED.

DUCTWORK:

1. DUCTWORK GENERAL:

a. DRAWINGS ARE DIAGRAMMATIC IN NATURE. FOR CLARITY SAKE, MOST DUCT OFFSETS/RISES/DROPS ARE NOT SHOWN. WHERE DUCTS PENETRATE WALLS, INSTALL THEM PERPENDICULAR TO WALL.

b. RECTANGULAR AND ROUND DUCTWORK SHALL BE GALVANIZED STEEL. SIZES SHOWN ARE INSIDE CLEAR DIMENSION, UNLESS NOTED OTHERWISE.

c. VERIFY BOTTOM OF DUCT ELEVATION AND COORDINATE WITH OTHER TRADES.

d. CONSTRUCT AND LEAKAGE TEST ALL DUCTWORK BASED ON SPECIFICATIONS AND SMACNA REQUIREMENTS, WHICHEVER IS MORE STRINGENT. COORDINATE PRESSURE CLASSES WITH EQUIPMENT SCHEDULES.

e. FLEXIBLE DUCTS MAXIMUM LENGTH SHALL NOT EXCEED 6 FEET. USE OF FLEXIBLE DUCTWORK IS LIMITED TO AREAS WITH AN ACCESSIBLE SUSPENDED CEILING. PINCHED DUCT WILL HAVE TO BE REPLACED.

f. IN AREAS WHERE DUCT CONFLICTS CANNOT BE AVOIDED, ROUTE SMALLER DUCTS THROUGH ROO JOISTS.

g. LOCATE AIR DEVICES AS SHOWN. COORDINATE WITH ELECTRICAL, IF NEEDED. RELOCATE DIFFUSER TO ADJACENT TILE.
2. DUCTWORK INSULATION:

a. WRAP ALL OUTSIDE AIR, SUPPLY AND RETURN DUCTWORK UNLESS NOTED OTHERWISE.

b. IN ADDITION, FOR ACOUSTICAL PERFORMANCE INTERNALLY LINE FIRST 10' OF SUPPLY AND LAST 10' OF RETURN DUCTWORK.

c. INSULATION ON DUCT SHOULD TO BE PROPERLY TAPED AND MASTICS MUST BE APPLIED ON SEAMS AND JOINTS AND AT ENDS ADJACENT TO DUCT FLANGES AND FITTINGS. FOR DUCT SEES WITH DIMENSIONS LARGER THAN 18 INCHES, APPLY ADDITIONAL PINS AND CLIPS TO HOLD INSULATION TIGHTLY AGAINST SURFACE AT CROSS BRACING.

d. INSULATE ALL EXHAUST DUCTWORK 10 FEET FROM EXTERIOR OPENING.
3. DUCT FITTINGS:

a. WHERE RECTANGULAR TEE FITTINGS ARE SHOWN, PROVIDE FITTING WITH ADJUSTABLE DIVIDER SHEET AND TURNING VANES.

b. WHERE RECTANGULAR MAIN AND BRANCH CONNECTIONS ARE SHOWN, PROVIDE EXTRACTOR VANES. NOT APPLICABLE TO DUCTWORK DOWNSTREAM OF VAV BOXES.

c. PROVIDE TURNING VANES IN ALL ELBOWS PER SPECS.
4. DAMPERS:

a. IN AN ACCESSIBLE LOCATION, PROVIDE MANUAL-TYPE VOLUME BALANCING DUCT DAMPERS IN ALL SUPPLY, RETURN AND EXHAUST DUCT BRANCHES TO INDIVIDUAL GRILLES, REGISTERS AND DIFFUSERS (GRD). TO MINIMIZE NOISE INSTALL DAMPERS CLOSER TO THE BRANCH CONNECTION THAN TO THE GRD. IN DUCTWORK, PROVIDE ACCESS DOORS TO ALL DAMPERS.

b. ABOVE INACCESSIBLE CEILINGS AND IN CASE DUCT CONFIGURATION DOES NOT ALLOW FOR INSTALLATION OF DAMPER IN DUCTWORK, PROVIDE REMOTE MANUAL DAMPER BY YOUNG REGULATOR OR EQUAL. (CABLE OPERATED SYSTEM) WITH ENGINEER'S PERMISSION CONTRACTOR MAY PROVIDE VOLUME DAMPER THAT IS INTEGRAL TO GRD.

c. PROVIDE BALANCING DAMPERS ON ALL EXHAUST GRILLES TO ACHIEVE DESIRED AIRFLOW.

d. PROVIDE DYNAMIC FIRE DAMPERS (RUSKIN DIDB20, TYPE B OR EQUAL) IN ACCORDANCE WITH CODE REQUIREMENT, IN ALL PENETRATIONS OF FIRE RATED WALLS, OCCUPANCY SEPARATION WALLS, BARRIERS AND PARTITIONS, AND EXIT CORRIDORS. REFER TO ARCHITECTURAL PLANS FOR RATED WALLS. PROVIDE ACCESS DOORS AS PER CODE REQUIREMENTS, EQUAL TO RUSKIN ADH-22 FOR RECTANGULAR DUCT, ACUDOR RD FOR ROUND DUCT. WHERE GRILLE ACCESS IS INDICATED, ADDITIONAL DUCT ACCESS DOOR IS NOT REQUIRED. WHERE THE CEILING IS FIRE RATED PROVIDE FIRE RATED AIR DEVICES FOR TRANSFER & RETURN AIR GRILLES AND SUPPLY AIR DIFFUSERS AS PER CODE REQUIREMENTS. REFER TO ARCHITECTURAL PLANS FOR RATED CEILINGS.

e. PROVIDE ACCESS DOORS (NOT SHOWN IN DRAWINGS) FOR INSPECTION OF DUCT MOUNTED EQUIPMENT SUCH AS FIRE/SMOKE DAMPERS, MANUAL BALANCING DAMPERS AND TURNING VANES. IN AREAS WITH HARD CEILING COORDINATE ACCESS DOOR LOCATIONS AND CEILING ACCESS PANELS WITH OTHER TRADES.

CONTROLS:

1. CONTRACTOR SHALL COOPERATE AND COORDINATE WORK ACTIVITIES WITH DDC CONTROLS CONTRACTOR TO ENSURE SMOOTH TROUBLE-FREE INSTALLATION.
2. WHERE NOT SPECIFICALLY INDICATED ON PLANS, DDC CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL RELAYS AND CONTACTORS, POWER TO DDC PANELS, AND OTHER CONTROL ELEMENTS. ALTHOUGH DDC CONTRACTOR MAY COORDINATE WITH OTHER TRADES TO PROVIDE MISCELLANEOUS ELECTRICAL WORK, THE FINAL RESPONSIBILITY FOR ACHIEVEMENT OF CONTROL SEQUENCES LIES WITH DDC CONTRACTOR.
3. ON THE GRAPHIC PAGES FOR ALL EQUIPMENT AND/OR MONITORED DEVICES (SUCH AS SENSORS, METERS, DAMPERS, ETC.) GIVE A CLEAR, GRAPHICAL INDICATION AS TO WHETHER EQUIPMENT OR DEVICE HAS BEEN PLACED IN MANUAL OPERATION, OVERRIDING AUTOMATIC OPERATION. (FOR EXAMPLE, PLACE AN "M" NEXT TO EQUIPMENT HAS BEEN PLACED IN MANUAL OPERATION.)
4. REFER TO OPERATING SEQUENCE IN SPECIFICATIONS FOR ALARMS AND SEQUENCES REQUIRED.
5. PROVIDE FULL COLOR GRAPHICS OF NEW SYSTEMS.
6. INTERCONNECT NEW CONTROLS WITH OWNER'S EXISTING COS.
7. PROVIDE WEB-SERVER. SEE SPECIFICATIONS.
8. RECOMMENDED DIVISION OF RESPONSIBILITIES BETWEEN SUB-CONTRACTORS IS AS FOLLOWS:

a. WITH OWNER COORDINATE ETHERNET CONNECTION FOR DDC SYSTEM.

b. WITH ELECTRICAL SUB CONTRACTOR, CONTRACTOR COORDINATES 120V POWER WIRING AND CONDUIT TO NEW CONTROLLERS (AND CIRCUIT BREAKERS, IF NO SPARES EXIST).

c. CONTROLS CONTRACTOR SUPPLIES DAMPERS, ETC. TO MECHANICAL CONTRACTOR FOR INSTALLATION. COORDINATE OUTSIDE AND RETURN AIR DAMPERS WITH AHU MANUFACTURER.

d. CONTROLS CONTRACTOR IS RESPONSIBLE FOR:

* DAMPER ACTUATORS

* GATEWAY INTERFACES AND ALL RELATED ACCESSORIES FOR FULL COMMUNICATION BETWEEN EQUIPMENT AND DDC SYSTEM

* ADJUSTABLE RANGE/FLAT PLATE THERMOSTATS, RH, CO2 SENSING DEVICES

* EQUIPMENT CONTROLLERS, SOFTWARE, PROGRAMMING.

* ALL NETWORK CONTROL PANELS, DDC CONTROLLERS, SOFTWARE, AND PROGRAMMING.

* WIRING AND CONDUIT FOR CONTROL AND MONITORING DEVICES

* CONTROL RELAYS

* SHOP DRAWINGS PER SPECIFICATIONS

* SYSTEM CHECK OUT, OWNER TRAINING, DDC SYSTEM WARRANTY WORK












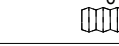
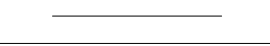

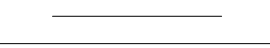
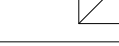
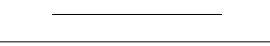


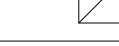
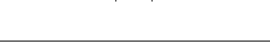


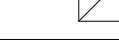
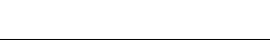


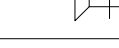
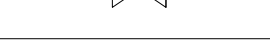

INSULATION:

1. FIBERGLASS INSULATION MAY NOT BE USED ON ANY COLD PIPING SURFACES; ONLY CLOSED CELL INSULATION IS ACCEPTABLE.
2. PROVIDE INSULATION ON ALL SURFACES CAPABLE OF CREATING CONDENSATION.

ABBREVIATIONS

| | | | | | | | |
|------|----------------------------|--------|--------------------------|------------|--|-------|--------------------------|
| A | AMPS | CT | COOLING TOWER | HB | HOSE BIBB | SA | SUPPLY AIR |
| ACCU | AIR COOLED CONDENSING UNIT | CU | COPPER | HP | HORSEPOWER | SD | SUPPLY AIR DIFFUSER |
| ACT | ACTUATOR | CW | CITY WATER | HS | HUMIDITY SENSOR | SS | STAINLESS STEEL |
| AFF | ABOVE FINISHED FLOOR | DDC | DIRECT DIGITAL CONTROLS | HVAC | HEATING, VENTILATION, & AIR CONDITIONING | SZ | SINGLE ZONE |
| AHU | AIR HANDLING UNIT | DMPR | DAMPER | | | TAB | TESTING & BALANCING |
| B | BOTTOM | DISC | DISCONNECT | LVG | LEAVING | T.O.L | TOP OF LOUVER |
| BAS | BUILDING AUTOMATION SYSTEM | EAG/EG | EXHAUST AIR GRILLE | MECH | MECHANICAL | TS | TEMPERATURE SENSOR |
| BOP | BOTTOM OF PIPE | EMS | ENERGY MANAGEMENT SYSTEM | MOT. STRTR | MOTOR STARTER | TSTAT | THERMOSTAT |
| BOTT | BOTTOM | ENT | ENTERING | MS | MOTOR STARTER | UG | UNDERGROUND |
| C | CONDUIT OR COMMON | EXT | EXTERNAL OR EXTERIOR | MZ | MULTI-ZONE | UNO | UNLESS OTHERWISE NOTED |
| CHR | CHILLED WATER RETURN | FCU | FAN COIL UNIT | NC | NORMALLY CLOSED | V | VOLTS |
| CHS | CHILLED WATER SUPPLY | FD | FIRE DAMPER | NO | NORMALLY OPEN | VAV | VARIABLE AIR VOLUME |
| CHW | CHILLED WATER | FM | FLOW METER | NTS | NOT TO SCALE | VFD | VARIABLE FREQUENCY DRIVE |
| CHWP | CHILLED WATER PUMP | FS | FLOW SWITCH | OA | OUTSIDE AIR | W | WIRE |
| CR | CONDENSER WATER RETURN | FPI | FINS PER INCH | PH | PHASE | | |
| CS | CONDENSER WATER SUPPLY | G | GROUND | RA | RETURN AIR | | |
| CLG | CEILING OR COOLING | GA | GAGE | RAGRG | RETURN AIR GRILLE | | |
| COMB | COMBINATION | GALV | GALVANIZED | RD | ROOF DRAIN | | |
| CONC | CONCRETE | GPM | GALLONS PER MINUTE | RM | ROOM | | |
| COND | CONDUIT | GRND | GROUND | RPZ | REDUCED PRESSURE ZONE | | |

MECHANICAL SYMBOLS LEGEND

| | | | |
|---|---|---|-----------------------------|
|  | DUCT SIZE: FIRST FIGURE IS SIDE SHOWN |  | THERMOSTAT |
|  | BELOW DUCT SIZE: FIRST FIGURE IS SIDE SHOWN |  | SPACE HUMIDITY SENSOR |
|  | DIRECTION OF FLOW-RETURN |  | DUCT HUMIDITY SENSOR |
|  | DIRECTION OF FLOW-SUPPLY |  | SPACE CARBON DIOXIDE SENSOR |
| | |  | STATIC PRESSURE SENSOR |
|  | FIRE DAMPER |  | DUCT CARBON DIOXIDE SENSOR |
|  | FLEXIBLE DUCT |  | CHILLED WATER RETURN |
|  | EXHAUST AIR GRILLE |  | CHILLED WATER SUPPLY |
|  | RETURN AIR/TRANSFER AIR GRILLE |  | CONDENSATE PIPING |
|  | SUPPLY AIR DIFFUSER |  | BUTTERFLY VALVE |
|  | SIDE TAP WITH DAMPER |  | MANUAL VALVE |
|  | BACKDRAFT DAMPER |  | AUTOMATIC VALVE |
|  | CHECK VALVE |  | PRESSURE GAUGE & COCK |
|  | AUTO-FLOW REGULATOR |  | TEMPERATURE SENSOR |
|  | DRAIN VALVE |  | THERMOMETER WELL |
|  | BALL VALVE | | |



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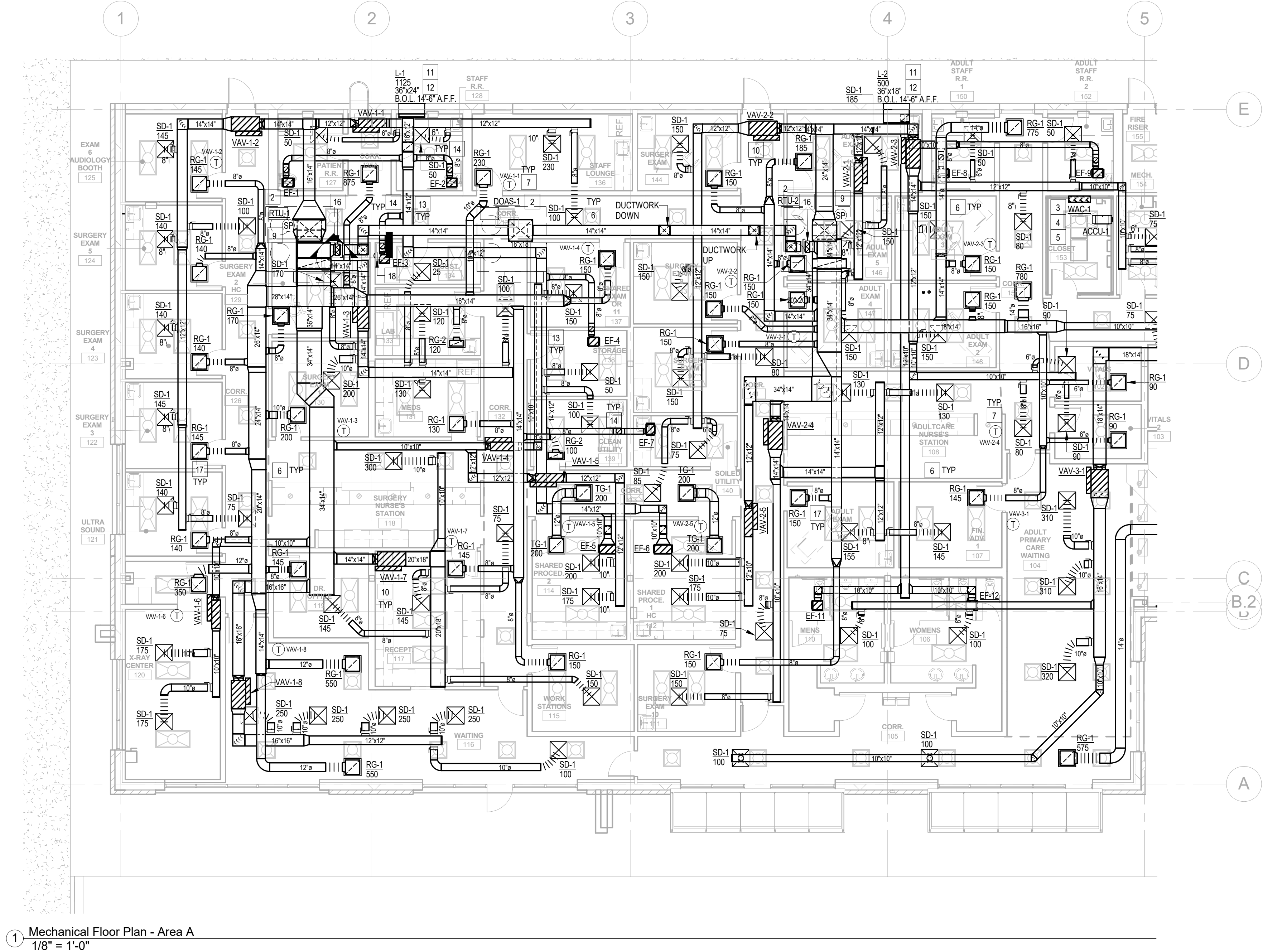


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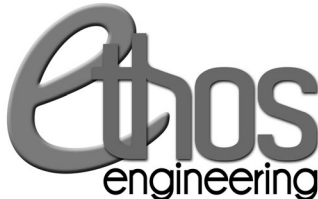
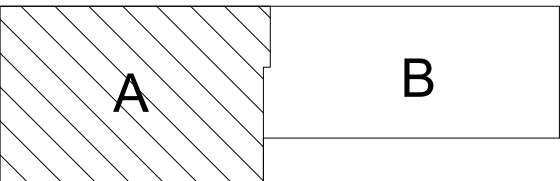
Mechanical
General Notes &
Symbols

M2.01



- MECHANICAL KEYED NOTES:
1. CODE AND WORKING CLEARANCE FOR ELECTRICAL PANELS. DO NOT ROUTE DUCT OR PIPING DIRECTLY ABOVE ELECTRICAL EQUIPMENT FOOTPRINT. SEE ELECTRICAL PLANS FOR EXACT LOCATION. (TYPICAL)
 2. PROVIDE RTU ON ROOF CURB AS SCHEDULED. ORIENT RTUS TO OPTIMIZE DUCTWORK. SEAL ALL OPENINGS AND ENSURE THAT INSTALLATION IS WEATHER-TIGHT. PROVIDE COPPER CONDENSATE DRAIN LINES WITH P-TRAPS, AND EXTEND TO NEAREST CONDENSATE DRAIN RECEPTOR. SUPPORT PIPING IN PIPING SUPPORTS AS DETAILED. PROVIDE RH AND CO2 SENSORS IN RETURN AIR DUCT UPSTREAM OF OUTSIDE AIR CONNECTION.
 3. PROVIDE WALL MOUNTED EVAPORATOR UNIT PER SCHEDULE. CONTRACTOR SHALL LOCATE UNIT TO ACCOMMODATE NEW ELECTRONIC EQUIPMENT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS/REQUIREMENTS.
 4. PRIOR TO INSTALLATION OF WALL MOUNTED EVAPORATOR UNIT, COORDINATE LOCATION OF COMMUNICATION AND DATA EQUIPMENT.
 5. ROUTE REFRIGERANT PIPING TO WALL MOUNTED EVAPORATOR UNIT. COORDINATE ROUTING WITH OTHER TRADES PRIOR TO INSTALLATION. SLEEVE ALL PENETRATIONS. SEAL AIRTIGHT AROUND PIPE PENETRATION. PROVIDE REFRIGERANT LINE SUPPORTS. SEE ASSOCIATED DETAIL.
 6. DUCTWORK ROUTING SHOWN IS DIAGRAMMATIC IN NATURE. FIELD-VERIFY STRUCTURE AND SPACE AVAILABILITY PRIOR TO SUBMITTING SHOP DRAWINGS. COORDINATE WITH ARCHITECT AND ENGINEER IN CASE OF CONFLICTS. (TYPICAL)
 7. PROVIDE THERMOSTAT. INSTALL 48" A.F.F. COORDINATE WITH ARCHITECT AND OWNER TO MEET ADA REQUIREMENTS. (TYPICAL)
 8. PROVIDE 1-1/2 HOUR RATING. DYNAMIC FIRE DAMPER EQUAL TO RUSKIN DIB02 AND DUCT ACCESS DOOR EQUAL TO RUSKIN ADH-22 FOR RECTANGULAR DUCT, ACUDOR RD FOR ROUND DUCT. (TYPICAL). PROVIDE FIRE DAMPER AT WALL PENETRATIONS AS SHOWN, AND AT DUCT PENETRATIONS BETWEEN FLOORS. FIRE DAMPERS AT SECOND FLOOR PENETRATIONS: ACCESS PANEL SHALL BE IN FIRST FLOOR CEILING SPACE. (TYPICAL)
 9. PROVIDE DUCT MOUNTED STATIC PRESSURE SENSOR IN RTU'S SUPPLY AIR DUCTWORK AND INTEGRATE WITH THE VAV OPERATION OF THE DOAS. COORDINATE WITH CONTROLS CONTRACTOR.
 10. PROVIDE VAV TERMINAL UNITS AS SCHEDULED. PROVIDE DUCT TRANSITION AS NEEDED. MAINTAIN MINIMUM 4'-0" STRAIGHT DUCT SECTION UPSTREAM OF BOX AND MINIMUM 3'-0" CLEARANCE IN FRONT OF THE ACCESS PANEL. SUPPORT WITH GALVANIZED ALL-THREAD AS SHOWN IN DETAIL. (TYPICAL)
 11. SLEEVE ALL WALL PENETRATIONS PER SPECIFICATIONS. SEAL AROUND DUCTS & PIPING AT ALL WALLS, AC ROOMS AND WALL LOUVER PENETRATIONS WITH FIRE-PROOF CAULKING. PROVIDE ESCUTCHEON PLATES AND FLASHING AROUND PENETRATION, BOTH INSIDE AND OUTSIDE TO PROVIDE A FINISH LOOK. (TYPICAL)
 12. PROVIDE LOUVER AS SCHEDULED. COORDINATE FINAL FINISH, SIZE AND LOCATION WITH ARCHITECT PRIOR TO ORDERING. (TYPICAL)
 13. ROUTE EXHAUST DUCT TO LOUVER AS SHOWN. (TYPICAL)
 14. PROVIDE ROUND SPIRAL LOCK-SEAM DUCT. LONGITUDINAL SEAM TYPE IS NOT ACCEPTABLE. REFER TO SPECIFICATIONS. (TYPICAL)
 15. ROUTE CONDENSATE PIPING DOWN FROM ROOF AT THIS APPROXIMATE LOCATION. SECURE PIPING TO WALL AND DISCHARGE CONDENSATE PIPING INTO FLOOR DRAIN. REFER TO PLUMBING PLANS FOR MORE INFORMATION. COORDINATE WITH PLUMBING CONTRACTOR.
 16. PROVIDE MOTORIZED DUCT MOUNTED OUTSIDE AIR DAMPER AND ACTUATOR. REFER TO DDC CONTROLS SEQUENCES FOR MORE INFORMATION. CONTROLS CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY POWER, CONDUITS AND WIRING FOR A COMPLETE AND FUNCTIONAL SYSTEM.
 17. PROVIDE FABRICATED RETURN AIR PLENUM BOX ABOVE RETURN GRILLE. CONNECT WITH FLEX DUCT TO MAIN RETURN TRUNK DUCT WHERE SHOWN ON DRAWING AND INSTALL BALANCING DAMPER WHERE INDICATED. FOR AREAS WHERE FLEX DUCT IS NOT SHOWN, PROVIDE ACOUSTICAL LINING FOR CONNECTION TO MAIN RETURN TRUNK DUCT. SEE DETAIL SHEET. (TYPICAL)

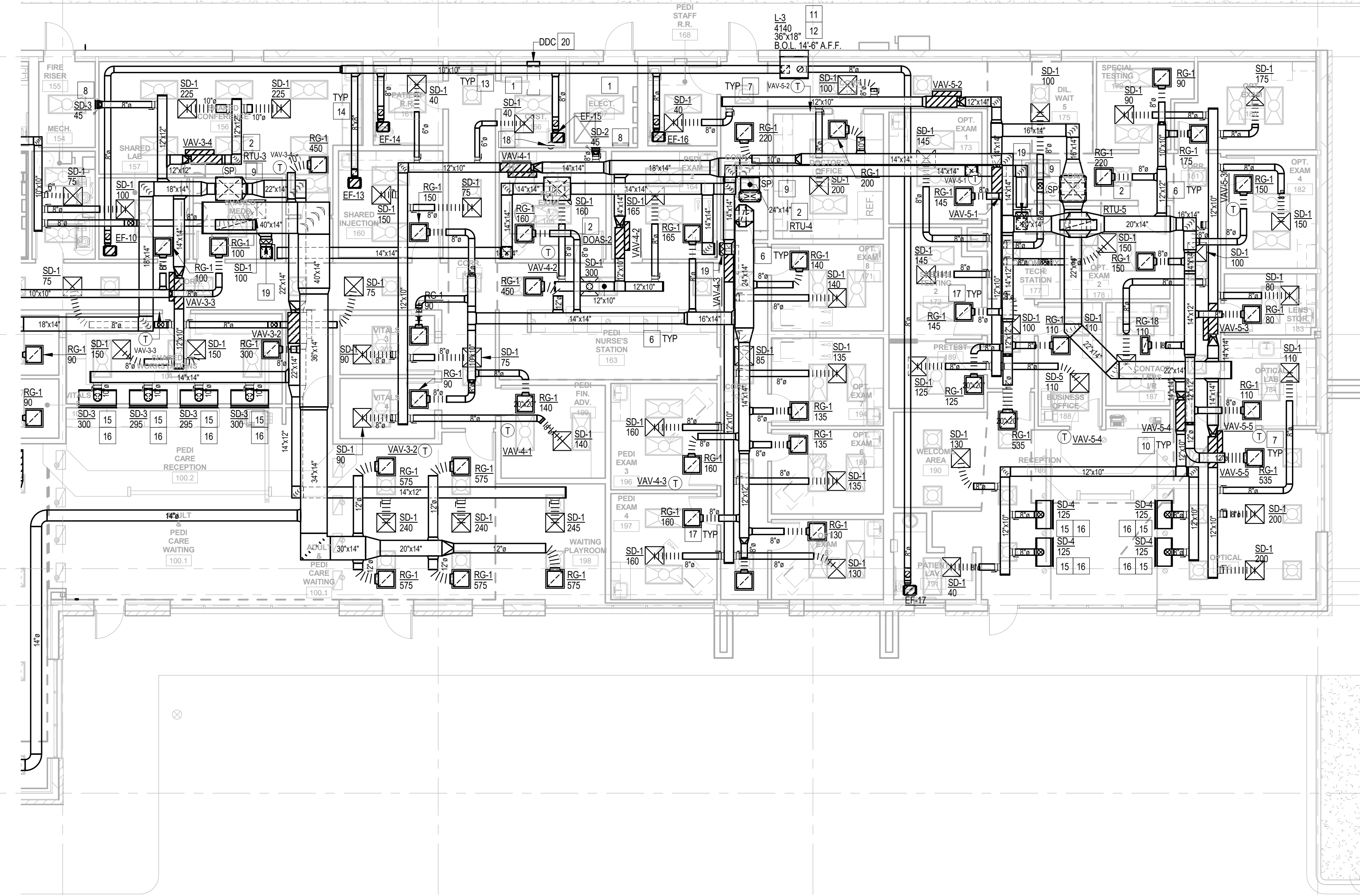
KEYPLAN



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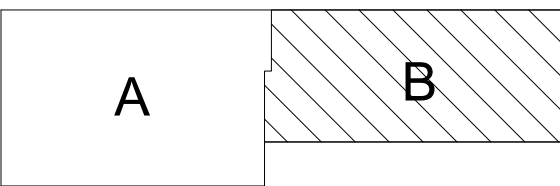
1 Mechanical Floor Plan - Area B
1/8" = 1'-0"



MECHANICAL KEYED NOTES:

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- PROVIDE RTU ON ROOF CURB AS SCHEDULED. ORIENT RTUS TO OPTIMIZE DUCTWORK. SEAL ALL OPENINGS AND ENSURE THAT INSTALLATION IS WEATHER-TIGHT. PROVIDE COPPER CONDENSATE DRAIN LINES WITH P-TRAPS, AND EXTEND TO NEAREST CONDENSATE DRAIN RECEPTOR. SUPPORT PIPING IN PIPING SUPPORTS AS DETAILED. PROVIDE RH AND CO2 SENSORS IN RETURN AIR DUCT UPSTREAM OF OUTSIDE AIR CONNECTION.
- PROVIDE WALL MOUNTED EVAPORATOR UNIT PER SCHEDULE. CONTRACTOR SHALL LOCATE UNIT TO ACCOMMODATE NEW ELECTRONIC EQUIPMENT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS/REQUIREMENTS.
- PRIOR TO INSTALLATION OF WALL MOUNTED EVAPORATOR UNIT, COORDINATE LOCATION OF COMMUNICATION AND DATA EQUIPMENT.
- ROUTE REFRIGERANT PIPING TO WALL MOUNTED EVAPORATOR UNIT. COORDINATE ROUTING WITH OTHER TRADES PRIOR TO INSTALLATION. SLEEVE ALL PENETRATIONS. SEAL AIRTIGHT AROUND PIPE PENETRATION. PROVIDE REFRIGERANT LINE SUPPORTS. SEE ASSOCIATED DETAIL.
- DUCTWORK ROUTING SHOWN IS DIAGRAMMATIC IN NATURE. FIELD-VERIFY STRUCTURE AND SPACE AVAILABILITY PRIOR TO SUBMITTING SHOP DRAWINGS. COORDINATE WITH ARCHITECT AND ENGINEER IN CASE OF CONFLICTS. (TYPICAL)
- PROVIDE THERMOSTAT. INSTALL 48" A.F.F. COORDINATE WITH ARCHITECT AND OWNER TO MEET ADA REQUIREMENTS. (TYPICAL)
- PROVIDE 1-1/2 HOUR RATING, DYNAMIC FIRE DAMPER EQUAL TO RUSKIN DIBD2 AND DUCT ACCESS DOOR EQUAL TO RUSKIN ADH-22 FOR RECTANGULAR DUCT, ACUDOR RD FOR ROUND DUCT. (TYPICAL). PROVIDE FIRE DAMPER AT WALL PENETRATIONS AS SHOWN, AND AT DUCT PENETRATIONS BETWEEN FLOORS. FIRE DAMPERS AT SECOND FLOOR PENETRATIONS: ACCESS PANEL SHALL BE IN FIRST FLOOR CEILING SPACE. (TYPICAL)
- PROVIDE DUCT MOUNTED STATIC PRESSURE SENSOR IN RTU'S SUPPLY AIR DUCTWORK AND INTEGRATE WITH THE VAV OPERATION OF THE DOAS. COORDINATE WITH CONTROLS CONTRACTOR.
- PROVIDE VAV TERMINAL UNITS AS SCHEDULED. PROVIDE DUCT TRANSITION AS NEEDED. MAINTAIN MINIMUM 4'-0" STRAIGHT DUCT SECTION UPSTREAM OF BOX AND MINIMUM 3'-0" CLEARANCE IN FRONT OF THE ACCESS PANEL. SUPPORT WITH GALVANIZED ALL-THREAD AS SHOWN IN DETAIL. (TYPICAL)
- SLEEVE ALL WALL PENETRATIONS PER SPECIFICATIONS. SEAL AROUND DUCTS & PIPING AT ALL WALLS, AC ROOMS AND WALL LOUVER PENETRATIONS WITH FIRE-PROOF CAULKING. PROVIDE ESCUTCHEON PLATES AND FLASHING AROUND PENETRATION, BOTH INSIDE AND OUTSIDE TO PROVIDE A FINISH LOOK. (TYPICAL)
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- ROUTE EXHAUST DUCT TO LOUVER AS SHOWN. (TYPICAL)
- PROVIDE ROUND SPIRAL LOCK-SEAM DUCT. LONGITUDINAL SEAM TYPE IS NOT ACCEPTABLE. REFER TO SPECIFICATIONS. (TYPICAL)
- PROVIDE LINEAR DIFFUSER AS SCHEDULED. LINEAR DIFFUSER SHALL BE OPERABLE THRU THE FACE OF THE DIFFUSER.
- PROVIDE BALANCING DAMPER WITH CONCEALED CABLE DEVICE MODEL, ROTO-TWIST OR APPROVED EQUAL. PROVIDE CABLE LENGTH AS REQUIRED. SEE ASSOCIATED DETAIL ON DETAIL SHEET.
- PROVIDE FABRICATED RETURN AIR PLENUM BOX ABOVE RETURN GRILLE. CONNECT WITH FLEX DUCT TO MAIN RETURN TRUNK DUCT WHERE SHOWN ON DRAWING AND INSTALL BALANCING DAMPER WHERE INDICATED. FOR AREAS WHERE FLEX DUCT IS NOT SHOWN, PROVIDE ACOUSTICAL LINING FOR CONNECTION TO MAIN RETURN TRUNK DUCT. SEE DETAIL SHEET. (TYPICAL)
- ROUTE CONDENSATE PIPING DOWN FROM ROOF AT THIS APPROXIMATE LOCATION. SECURE PIPING TO WALL, AND DISCHARGE CONDENSATE PIPING INTO FLOOR DRAIN. REFER TO PLUMBING PLANS FOR MORE INFORMATION. COORDINATE WITH PLUMBING CONTRACTOR.
- PROVIDE MOTORIZED DUCT MOUNTED OUTSIDE AIR DAMPER AND ACTUATOR. REFER TO DDC CONTROLS SEQUENCES FOR MORE INFORMATION. CONTROLS CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY POWER, CONDUITS AND WIRING FOR A COMPLETE AND FUNCTIONAL SYSTEM.
- REFER TO SPECIFICATION FOR DDC CONTROLS AND SEQUENCES OF OPERATION.

KEYPLAN



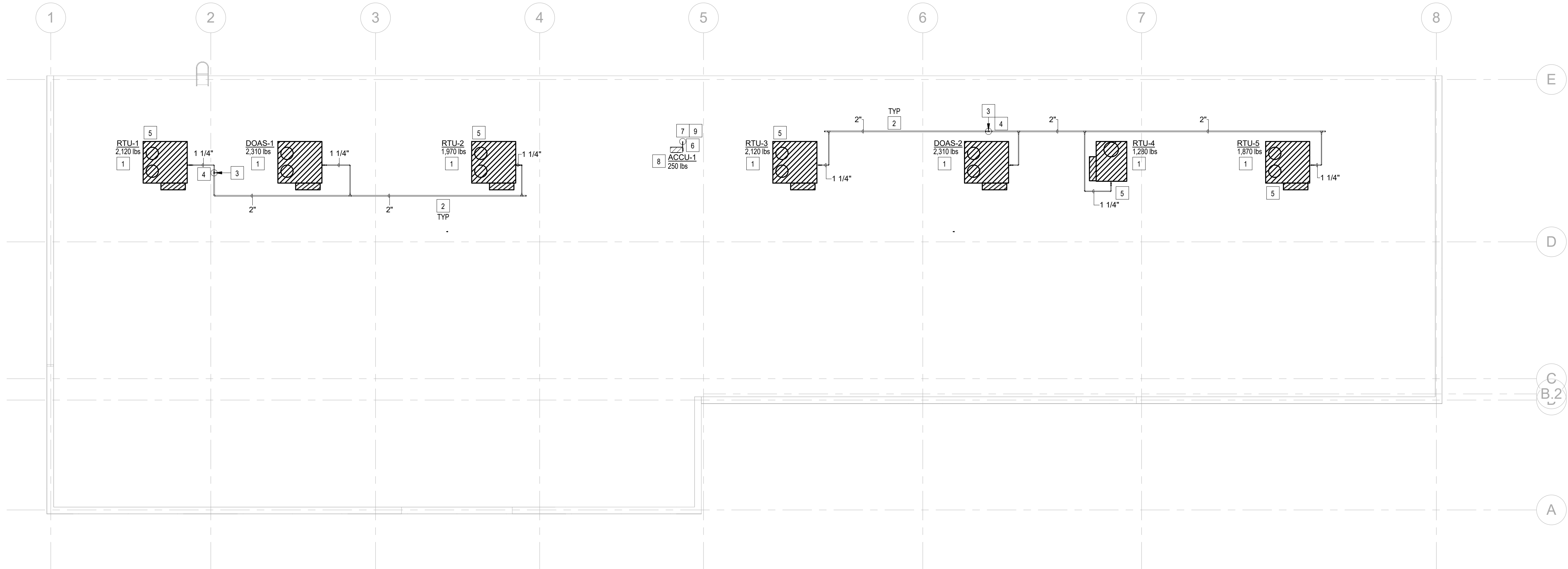
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Mechanical
Floor Plan - Area
B

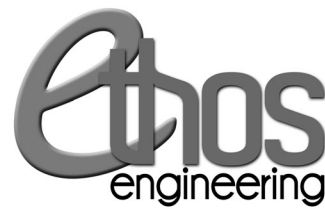
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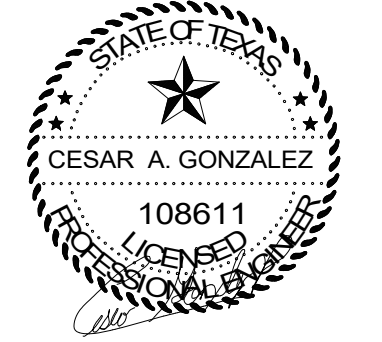
1 MECHANICAL ROOF PLAN
3/32" = 1'-0"

MECHANICAL KEYED NOTES:

1. PROVIDE RTU ON ROOF CURB AS SCHEDULED. ORIENT RTUS TO OPTIMIZE DUCTWORK. SEAL ALL OPENINGS AND ENSURE THAT INSTALLATION IS WEATHER-TIGHT. PROVIDE COPPER CONDENSATE DRAIN LINES WITH P-TRAPS, AND EXTEND TO NEAREST CONDENSATE DRAIN RECEPTOR. SUPPORT PIPING IN PIPING SUPPORTS AS DETAILED. PROVIDE ROOF CURB TO INSTALL EQUIPMENT ON ROOF. SECURE EQUIPMENT TO ROOF CURB AND ROOF CURB TO ROOF STRUCTURE AS PER DIV. 7 SPECIFICATIONS. ATTACHMENTS SHALL BE CAPABLE OF WITHSTANDING THE LOCAL WIND PRESSURES.
2. PROVIDE COPPER CONDENSATE PIPING ON ROOF AND PROVIDE SUPPORTS AS PER DETAIL. REFER TO DETAIL SHEET. (TYPICAL)
3. ROUTE CONDENSATE LINE DOWN TO CEILING SPACE BELOW AT THE APPROXIMATE LOCATION. REFER TO PLUMBING DRAWINGS.
4. PROVIDE ROOF PENETRATION SEAL CHEMCURB SYSTEM FOR CONDENSATE PIPING. SEE ASSOCIATED DETAIL ON DETAIL SHEET. COORDINATE INSTALLATION WITH PLUMBING CONTRACTOR.
5. PROVIDE FACTORY INSTALLED CONVENIENCE ELECTRICAL OUTLET AT INDICATED RTUS. COORDINATE WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ELECTRICAL CONTRACTOR.
6. PROVIDE 1" INSULATION & ALUMINUM METAL JACKET ON EXPOSED REFRIGERANT LINES. SEE SPECIFICATIONS. PROVIDE REFRIGERANT LINE SUPPORTS SUITABLE FOR ROOF APPLICATION.
7. PROVIDE ROOF PENETRATION SEAL CHEMCURB SYSTEM FOR REFRIGERANT PIPING, HVAC CONTROL WIRING AND ELECTRICAL POWER CONDUITS. SEE ASSOCIATED DETAIL ON DETAIL SHEET. COORDINATE INSTALLATION WITH ELECTRICAL AND PLUMBING CONTRACTORS.
8. SECURE CONDENSING UNIT TO ROOF SUPPORT. ATTACHMENTS SHALL BE CAPABLE OF WITHSTANDING THE LOCAL WIND PRESSURES. REFER TO DIV. 7 FOR MORE INFORMATION.
9. SLEEVE ALL PENETRATIONS PER SPECIFICATIONS. SEAL AROUND PIPING WITH FIRE PROOF CAULKING. PROVIDE ESCUTCHEON PLATES AND FLASHING AROUND PENETRATION BOTH INSIDE AND OUTSIDE TO PROVIDE FINISHED LOOK



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ROOF MOUNTED DEDICATED OUTSIDE AIR UNIT SCHEDULE

| MARK | SUPPLY | SERVING | ESP (INCHES) | MIN HP | MCA A | MOCP A | ELECTRICAL V/PH | COOLING | | | | DEHUMIDIFICATION CONDITION | | | | CONDENSER REHEAT COIL DEHUMID. CONDITION | | | | HEATING | | | | EER / IEER | # COMP. / STAGES | WEIGHT LB | DAIKIN MODEL NUMBER | Notes |
|--------|----------|--------------|-----------------|-----------|----------|-----------|--------------------|------------|---------------|--------------|-------------|----------------------------|------------|---------------|-------------|--|--------------|------------|-------------|-------------|----------|--------|--------|------------|------------------|--------------|------------------------|-------|
| | | | | | | | | TOTAL BTUH | SENSIBLE BTUH | EAT DBWB | LAT DBWB | AIR ON COND. | TOTAL BTUH | SENSIBLE BTUH | EAT DBWB | LAT DBWB | AIR ON COND. | TOTAL BTUH | EAT DBWB | LAT DBWB | TOTAL KW | EAT DB | LAT DB | | | | | |
| DOAS-1 | 0 CFM | RTUS-1, 2 | 0.5 | 2.3 | 30.0 | 40 | 208 V / 3P / 60 Hz | 174866 | 61684 | 100.4 / 76.5 | 51.0 / 51.0 | 100 | 170700 | 59900 | 83.3 / 79.4 | 52.8 / 52.8 | 95 | 37200 | 51.0 / 51.0 | 70.0 / 58.4 | 18 | 40.0 | 68.0 | 11 / 17.7 | 2 / INF | 2312 lb | DPS015 | 1-17 |
| DOAS-2 | 1800 CFM | RTUS-3, 4, 5 | 0.5 | 2.3 | 30.0 | 40 | 208 V / 3P / 60 Hz | 174866 | 61684 | 100.4 / 76.5 | 51.0 / 51.0 | 100 | 710700 | 59900 | 83.3 / 79.4 | 52.8 / 52.8 | 95 | 37200 | 51.0 / 51.0 | 70.0 / 58.4 | 18 | 40.0 | 68.0 | 11 / 17.7 | 2 / INF | 2312 lb | DPS015 | 1-17 |

NOTES:

- PROVIDE ROOF-MOUNTED PACKAGED UNITS WITH INTEGRAL AIR COOLED CONDENSERS DESIGNED FOR 100% OUTSIDE AIR APPLICATION.
- PROVIDE MODULATING HOT GAS REHEAT SYSTEM AND DEHUMIDIFICATION CONTROLS TO ACHIEVE SCHEDULED LEAVING AIR CONDITIONS.
- PROVIDE MINIMUM OF ONE INVERTER COMPRESSOR FOR FULL MODULATION OF CAPACITY AND ACCURATE LEAVING AIR TEMPERATURE CONTROL.
- PROVIDE ALUMINUM FIN COPPER TUBE OR MICROCHANNEL CONDENSER COIL.
- PROVIDE GALVANIZED FILTER FRAMES AND 304 STAINLESS STEEL DRAIN PANS.
- PROVIDE CABINET WITH 1" R-7 (3-15 TONS) OR 2" R-13 (16+ TONS) DOUBLE WALL CONSTRUCTION WITH FOAM INSULATION.
- FURNISH DIRECT DRIVE EVAPORATOR FAN, AND ECM MOTOR OR VFD AND NON-OVERLOADING MOTORS. PROVIDE TOTALLY ENCLOSED FAN MOTORS.
- E-COATED EVAPORATOR, REHEAT, AND CONDENSER COILS TO MEET ASTM B117-90, ASTM D2247-92, AND ASTM D870-92 FOR 6,000 HRS SALT SPRAY, 1,000 HRS HUMIDITY IMMERSION RESISTANCE, AND 250 HRS WATER IMMERSION RESISTANCE.
- PROVIDE INTERIOR CORROSION PROTECTION CAPABLE OF WITHSTANDING AT LEAST 2,500 HRS, WITH NO VISIBLE CORROSIVE EFFECTS, WHEN TESTED IN A SALT SPRAY AND FOG ATMOSPHERE IN ACCORDANCE WITH ASTM B 117-95 TEST PROCEDURE. PERFORMANCE PENALTY OF \$14/TON FOR EVERY 1/10 OF A POINT LOWER THAN SCHEDULED IEER BASED ON A STANDARD UNIT OF THE SAME CAPACITY AT AHRI CONDITIONS.
- UNITS SHALL BE RATED IN ACCORDANCE TO AHRI 340/ 360.
- ESP IS STRICTLY EXTERNAL STATIC PRESSURE AND IS IN ADDITION TO ANY FILTERS, COILS OR OTHER ACCESSORIES INCLUDED WITH THE DOAS.
- PROVIDE SINGLE POINT OF ELECTRICAL SAFETY DISCONNECT PROVIDED BY DIV. 26. COORDINATE WITH ELECTRICAL CONTRACTOR.
- PROVIDE LOW AMBIENT CONTROL TO 35F.
- PROVIDE FACTORY INSTALLED UNITARY CONTROLLER CAPABLE OF
 - 1) 100% OUTSIDE AIR CONTROL.
 - 2) CONSTANT VOLUME SUPPLY AIR FLOW CONTROL.
 - 3) BACNET INTERFACE.
 - 4) MODULATING REHEAT DEHUMIDIFICATION CONTROL.
- PROVIDE IBC 2012 COMPLIANT CURB AND ATTACHMENTS FROM UNIT TO CURB AND CURB TO STRUCTURE. EQUIPMENT OR CURB MANUFACTURER IS RESPONSIBLE FOR PROVIDING ENGINEERED DETAIL ANALYSIS OF:
 - 1) ATTACHMENT OF EQUIPMENT TO CURB.
 - 2) CURB TO STRUCTURE.
 - 3) CURB AND ATTACHMENT HARDWARE STRENGTH.REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ROOF SUBSTRATE DETAILS.
- EQUIPMENT OR CURB MANUFACTURER IS ALSO RESPONSIBLE FOR PROVIDING ENGINEERED INSTALLATION DRAWINGS FOR ITEMS 1 AND 2 LISTED ABOVE.
- BOTH, THE ENGINEERED ANALYSIS AND THE ENGINEERED INSTALLATION DRAWINGS SHALL BE PERFORMED SPECIFICALLY FOR THIS BUILDING AND PROJECT SITE AND STAMPED AND SEALED BY A TEXAS LICENSED ENGINEER.
- SUBMITTALS WILL NOT BE APPROVED UNTIL ALL DOCUMENTATION LISTED ABOVE IS PROVIDED ACCURATELY.
- PROVIDE COMBO 27/4" FILTER RACK INTERVAL TO THE UNIT WITH ONE SET OF 2" GALVANIZED FILTER FRAMES WITH MERV 8 FILTERS AND ONE SET OF 4" MERV 13 FILTERS. ADD 0.75" PRESSURE DROP FOR MERV 13 FILTERS.
- PROVIDE INTERIOR COATING RATED AT 10,000HR ASTM B117.

ROOFTOP UNIT SCHEDULE

| MARK | NOMINAL | SUPPLY CFM | OA | | ESP (INCHES) | MIN HP | FLA A | MCA A | MOCP A | ELECTRICAL V/PH | AIR ON COND. | COOLING | | | | EER / IEER | WEIGHT LB | DAIKIN MODEL NUMBER | Notes |
|-------|---------|---------------|------|--------|-----------------|-----------|----------|----------|-----------|--------------------|-----------------|------------|---------------|-------------|-------------|-------------|--------------|------------------------|-------|
| | | | CFM | FROM | | | | | | | | TOTAL BTUH | SENSIBLE BTUH | EAT DBWB | LAT DBWB | | | | |
| RTU-1 | 10 | 5000 | 1030 | DOAS-1 | 1.5 | 8 | 49.4 | 49.4 | 60 | 208 V / 3P / 60 Hz | 100 | 116460 | 106118 | 75.0 / 63.0 | 55.6 / 55.1 | 12.4 / 19.3 | 2118 lb | DPS010A | 1-13 |
| RTU-2 | 7 | 3350 | 770 | DOAS-1 | 1.5 | 4 | 41.4 | 36.3 | 45 | 208 V / 3P / 60 Hz | 100 | 116460 | 106118 | 75.0 / 63.0 | 54.3 / 54.2 | 12.5 / 20.6 | 1968 lb | DPS007A | 1-13 |
| RTU-3 | 10 | 4200 | 725 | DOAS-2 | 1.5 | 4 | 49.4 | 44.7 | 60 | 208 V / 3P / 60 Hz | 100 | 116460 | 106118 | 75.0 / 63.0 | 54.1 / 53.8 | 12.4 / 19.3 | 2118 lb | DPS010A | 1-13 |
| RTU-4 | 5 | 2315 | 550 | DOAS-2 | 1.5 | 4 | 27.1 | 27.1 | 35 | 208 V / 3P / 60 Hz | 100 | 56820 | 51835 | 75.0 / 63.0 | 55.2 / 55.0 | 13 / 18.5 | 1281 lb | DPS005A | 1-13 |
| RTU-5 | 7 | 3100 | 525 | DOAS-2 | 1.5 | 4 | 36.3 | 36.3 | 45 | 208 V / 3P / 60 Hz | 100 | 56820 | 51835 | 75.0 / 63.0 | 53.6 / 53.5 | 11.9 / 19.8 | 1868 lb | DPS007A | 1-13 |

NOTES:

- PROVIDE ROOF CURBS WITH VERTICAL DUCT CONNECTION, COPPER CONDENSATE TRAP, EXV, TOTALLY ENCLOSED FAN MOTORS, SS COIL CASINGS AND FREEZE-STAT OPTIONS.
- PROVIDE CABINET WITH 1" R-7 (3-15 TONS) OR 2" R-13 (16+ TONS) DOUBLE WALL CONSTRUCTION WITH FOAM INSULATION, AND HINGED ACCESS DOORS.
- PROVIDE HOODED/LOUVERED HAIL GUARDS OR ANGLED CONDENSER COILS WITH WIRE GRILLES, 304 STAINLESS STEEL DRAIN PANS, GALVANIZED FILTER FRAMES, E-COATED CONDENSER COILS.
- DO NOT PROVIDE OUTSIDE AIR HOOD OR OPENINGS.
- PROVIDE INVERTER COMPRESSOR FOR FULL MODULATION OF CAPACITY AND ACCURATE LEAVING AIR TEMPERATURE CONTROL.
- PROVIDE DIRECT DRIVE EVAPORATOR FAN, AND ECM MOTOR OR VFD TO MODULATE FAN SPEED TO MEET STATIC PRESSURE SETPOINT. DUCT STATIC PRESSURE SENSOR BY RTU MFR. COORDINATE INSTALLATION WITH DDC.
- PROVIDE FACTORY-INSTALLED CONVENIENCE ELECTRICAL OUTLETS AT INDICATED RTUS. SEE MECHANICAL ROOF PLANS FOR LOCATIONS. DIV. 26 TO PROVIDE WIRING AND POWER FOR THE OUTLETS. COORDINATE WITH ELECTRICAL CONTRACTOR.
- EQUIPMENT MFR, MECHANICAL AND DDC CONTRACTORS SHALL COORDINATE PROVISION AND INSTALLATION OF SENSORS AND SMOKE DETECTORS.
- APPROVED MFRS THAT DO NOT MEET SPECIFIED EFFICIENCIES SHALL INCLUDE A PERFORMANCE PENALTY, PAID TO OWNER. PERFORMANCE PENALTY OF \$14/TON FOR EVERY 1/10 OF A POINT LOWER THAN SCHEDULED IEER BASED ON A STANDARD UNIT OF THE SAME CAPACITY AT AHRI CONDITIONS.
- PROVIDE FACTORY MOUNTED MICROPROCESSOR CONTROLLER, AND BACNET INTERFACE WITH DDC.
- PROVIDE IBC 2015 COMPLIANT CURB AND ATTACHMENTS FROM UNIT TO CURB AND CURB TO STRUCTURE. EQUIPMENT OR CURB MANUFACTURER IS RESPONSIBLE FOR PROVIDING ENGINEERED DETAIL ANALYSIS OF:
 - 1) ATTACHMENT OF EQUIPMENT TO CURB.
 - 2) CURB TO STRUCTURE.
 - 3) CURB AND ATTACHMENT HARDWARE STRENGTH.REFER TO STRUCTURAL DRAWINGS FOR ROOF SUBSTRATE DETAILS.
- EQUIPMENT OR CURB MANUFACTURER IS ALSO RESPONSIBLE FOR PROVIDING ENGINEERED INSTALLATION DRAWINGS FOR ITEMS 1 AND 2 LISTED ABOVE.
- BOTH, THE ENGINEERED ANALYSIS AND THE ENGINEERED INSTALLATION DRAWINGS SHALL BE PERFORMED SPECIFICALLY FOR THIS BUILDING AND PROJECT SITE AND STAMPED AND SEALED BY A TEXAS LICENSED ENGINEER.
- SUBMITTALS WILL NOT BE APPROVED UNTIL ALL DOCUMENTATION LISTED ABOVE IS PROVIDED ACCURATELY.
- PROVIDE COMBO 27/4" FILTER RACK INTERVAL TO THE UNIT WITH ONE SET OF 2" GALVANIZED FILTER FRAMES WITH MERV 8 FILTERS AND ONE SET OF 4" MERV 13 FILTERS. ADD 0.75" PRESSURE DROP FOR MERV 13 FILTERS.
- PROVIDE FACTORY E-COATING OF CONDENSER COILS WITH MINIMUM 6,000 ASTM B117 SALT SPRAY RATING.

VAV BOX SCHEDULE

| Mark | Actual Supply Air Flow | MIN. COOLING FLOW (%) | ELECTRICAL V/PH | Electric Heat KW | ELECTRICAL HEAT STEPS | MANUFACTURER | TITUS MODEL | MODEL SIZE | NOTES |
|---------|------------------------|-----------------------|-------------------|------------------|-----------------------|--------------|-------------|------------|-------|
| VAV-1-1 | 430 CFM | 30% | 208 V / 3 / 60 Hz | 2.5 KW | 2 | Titus | DES/V | 08 | ALL |
| VAV-1-2 | 885 CFM | 30% | 208 V / 3 / 60 Hz | 5.5 KW | 3 | Titus | DES/V | 08 | ALL |
| VAV-1-3 | 745 CFM | 30% | 208 V / 3 / 60 Hz | 4.5 KW | 3 | Titus | DES/V | 12 | ALL |
| VAV-1-4 | 300 CFM | 30% | 208 V / 3 / 60 Hz | 2.0 KW | 1 | Titus | DES/V | 08 | ALL |
| VAV-1-5 | 375 CFM | 30% | 208 V / 3 / 60 Hz | 2.5 KW | 2 | Titus | DES/V | 08 | ALL |
| VAV-1-6 | 350 CFM | 30% | 208 V / 3 / 60 Hz | 2.0 KW | 1 | Titus | DES/V | 08 | ALL |
| VAV-1-7 | 815 CFM | 30% | 208 V / 3 / 60 Hz | 4.5 KW | 3 | Titus | DES/V | 14 | ALL |
| VAV-1-8 | 1100 CFM | 30% | 208 V / 3 / 60 Hz | 6.5 KW | 3 | Titus | DES/V | 14 | ALL |
| VAV-2-1 | 485 CFM | 30% | 208 V / 3 / 60 Hz | 3.0 KW | 2 | Titus | DES/V | 08 | ALL |
| VAV-2-2 | 690 CFM | 30% | 208 V / 3 / 60 Hz | 4.0 KW | 2 | Titus | DES/V | 12 | ALL |
| VAV-2-3 | 1015 CFM | 30% | 208 V / 3 / 60 Hz | 6.0 KW | 3 | Titus | DES/V | 14 | ALL |
| VAV-2-4 | 785 CFM | 30% | 208 V / 3 / 60 Hz | 4.5 KW | 3 | Titus | DES/V | 12 | ALL |
| VAV-2-5 | 375 CFM | 30% | 208 V / 3 / 60 Hz | 2.5 KW | 2 | Titus | DES/V | 08 | ALL |
| VAV-3-1 | 1340 CFM | 30% | 208 V / 3 / 60 Hz | 7.5 KW | 3 | Titus | DES/V | 16 | ALL |
| VAV-3-2 | 1915 CFM | 30% | 208 V / 3 / 60 Hz | 10.5 KW | 3 | Titus | DES/V | 16 | ALL |
| VAV-3-3 | 450 CFM | 30% | 208 V / 3 / 60 Hz | 2.5 KW | 2 | Titus | DES/V | 08 | ALL |
| VAV-3-4 | 705 CFM | 30% | 208 V / 3 / 60 Hz | 4.0 KW | 2 | Titus | DES/V | 12 | ALL |
| VAV-4-1 | 228 CFM | 30% | 208 V / 3 / 60 Hz | 3.5 KW | 2 | Titus | DES/V | 12 | ALL |
| VAV-4-2 | 625 CFM | 30% | 208 V / 3 / 60 Hz | 5.5 KW | 3 | Titus | DES/V | 14 | ALL |
| VAV-4-3 | 345 CFM | 30% | 208 V / 3 / 60 Hz | 5.0 KW | 3 | Titus | DES/V | 12 | ALL |
| VAV-5-1 | 875 CFM | 30% | 208 V / 3 / 60 Hz | 2.0 KW | 1 | Titus | DES/V | 10 | ALL |
| VAV-5-2 | 705 CFM | 30% | 208 V / 3 / 60 Hz | 4.0 KW | 2 | Titus | DES/V | 12 | ALL |
| VAV-5-3 | 670 CFM | 30% | 208 V / 3 / 60 Hz | 4.0 KW | 2 | Titus | DES/V | 12 | ALL |
| VAV-5-4 | 510 CFM | 30% | 208 V / 3 / 60 Hz | 3.0 KW | 2 | Titus | DES/V | 08 | ALL |

NOTES:

- COORDINATE WITH DRAWINGS FOR RIGHT OR LEFT-HAND CASING CONFIGURATION PRIOR TO ORDERING.
- PROVIDE VAV TERMINAL UNIT WITH 24V TRANSFORMER AND FUSIBLE INTEGRAL DISCONNECT.
- COORDINATE INLET AND OUTLET DIMENSIONS WITH PLANS. PROVIDE "RECTANGULAR TO ROUND" TRANSITIONS FOR INLET CONNECTIONS AS SHOWN ON DRAWINGS.
- FURNISH VAV BOXES LESS THAN 24" DEEP.
- FURNISH WITH SLIP AND DRIVE CONNECTIONS.
- PROVIDE SOUND ATTENUATOR INTEGRAL TO ELECTRIC HEATING COIL SECTION.
- MINIMUM AIR FLOW SHALL BE 50% DURING HEATING MODE.
- PROVIDE TITUS 1" ECO SHIELD WITH FOIL FACING OR EQUAL.
- PROVIDE AEROCROSS INLET AIR VELOCITY SENSOR OR EQUAL.

LOUVER SCHEDULE

| MARK | SERVES | CFM RANGE | FACE SIZE (W X H) | MIN. FREE AREA (FT2) | RUSKIN MODEL NUMBER | NOTES |
|------|--|-----------|-------------------|----------------------|---------------------|-------|
| L-1 | EF-1, EF-2, EF-3, EF-4, EF-5, EF-6, EF-7 | 1125 | 36 X 24 | 2.37 | EMES20MD | ALL |
| L-2 | EF-8, EF-9, EF-11, EF-12 | 500 | 36 X 18 | 1.63 | EMES20MD | ALL |
| L-3 | EF-10, EF-13, EF-14, EF-15, EF-16, EF-17 | 550 | 36 X 18 | 1.63 | EMES20MD | ALL |

NOTES:

- PRIOR TO ORDERING, COORDINATE LOUVER FINISH AND EXACT FACE SIZE WITH ARCHITECT.
- PROVIDE STAINLESS STEEL BIRD SCREEN AND HARDWARE.
- PROVIDE FACTORY APPLIED KYNAR 500 FINISH.
- PROVIDE WITH TDI PRODUCT EVALUATION REPORT.

MINI SPLIT AIR COOLED CONDENSING UNIT SCHEDULE

| MARK | SERVING | TOTAL BTU/H | COND DB | ELECTRIC V-PH-HZ | SEER ARI CONDITIONS | COMPR STAGES | MCA | MOCP | WEGHT (LBS) | NOTES | MANUFACTURER MODEL NUMBER |
|--------|---------|-------------|---------|------------------|---------------------|--------------|-----|------|-------------|-------|---------------------------|
| ACCU-1 | WAC-1 | 18,000 | 100 | 208-1-60 | 18 | VAR | 15 | 20 | 93 | ALL | RKN18KEVJU |

NOTES:

- MANUFACTURER AND MODEL NUMBER LISTED ARE "OR APPROVED EQUAL". SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS. AND SUBSTITUTION PROCEDURES.
- INSULATE REFRIGERANT LINES AS PER SPECIFICATIONS. PROVIDE ALUMINUM METAL JACKETING AROUND INSULATION FOR ALL EXTERIOR EXPOSED LINES.
- EER SHALL EXCEED IECC MINIMUM EFFICIENCY AT ARI CONDITIONS.
- PROVIDE EVAPORATOR DEFROST CONTROLLER FOR MINIMUM CIRCUIT.
- SIGHT GLASSES, FILTER DRYERS, AND FIELD SUPPLIED EXPANSION VALVES ARE NOT TO BE USED ON DAIKIN EQUIPMENT.
- PROVIDE INVERTER DRIVEN COMPRESSOR FOR IMPROVED HUMIDITY CONTROL.
- SAFETY DISCONNECT TO BE PROVIDED BY DIV. 26. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE CIRCUIT POWER FROM SERVICE TO OUTDOOR UNIT AND WIRE TO INDOOR UNIT.
- PROVIDE ATTACHMENT OF ACCU TO ROOF STRUCTURE CAPABLE OF WITHSTANDING THE LOCAL WIND PRESSURES AS PER IBC. PROVIDE CALCULATIONS AND ATTACHMENT INSTALLATION INSTRUCTIONS SEALED BY A LICENSED ENGINEER. REFER TO SPECIFICATIONS FOR MORE INFORMATION ON THIS DELEGATED DESIGN.

MINI SPLIT WALL MOUNT EVAPORATOR SCHEDULE

| MARK | MATCHED TO | LOCATION | TOTAL CFM MIN./MAX. | ESP IN VG | MCA | MOCP | ELECT. V-P-H | COOLING | | | | WT (LBS) | NOTES | MANUFACTURER & MODEL NUMBER |
|-------|------------|----------|---------------------|-----------|-----|------|--------------|-------------|-----------|-----------|------|----------|-------|-----------------------------|
| | | | | | | | | TOTAL BTU/H | EAT DB/WB | LAT DB/WB | | | | |
| WAC-1 | ACCU-1 | SEE PLAN | 403/572 | 0.10 | - | - | 208-1-60 | 18000 | 80/67 | 55/55 | 26.5 | ALL | | FTXN18KVJU |

NOTES:

- MANUFACTURER AND MODEL NUMBER LISTED ARE "OR APPROVED EQUAL". SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS. AND SUBSTITUTION PROCEDURES.
- FILTER SECTION SHALL BE WIRE FRAMED SECTION.
- PROVIDE MOUNTING BRACKET
- PROVIDE WALL MOUNTED AND WIRED 7-DAY PROGRAMMABLE T-STAT IN LIEU OF WIRELESS REMOTE.
- ELECTRICAL CONTRACTOR TO PROVIDE SINGLE CIRCUIT POWER FROM SERVICE TO OUTDOOR UNIT AND WIRE TO INDOOR UNIT.
- PROVIDE FACTORY SUPPLIED CONDENSATE PUMP.

EXHAUST FAN SCHEDULE

| MARK | ROOM SERVING | Specific Product Description | ELECTRICAL V/PH | Config Total Air Flow | Motor Power | Config Total Static Pressure | Inlet Sones | MANUFACTURER & MODEL NUMBER | Unit Weight | Notes | CONTROL NOTES |
|-------|------------------|------------------------------|-------------------|-----------------------|-------------|------------------------------|-------------|-----------------------------|-------------|-------|---------------|
| EF-1 | PATIENT RR | Ceiling Exhaust Fan | 115 V / 1 / 60 Hz | 75 CFM | 128 W | 0.40 in-wg | 2 | Greenheck SP-B150 | 19 | ALL | A |
| EF-2 | STAFF RR | Ceiling Exhaust Fan | 115 V / 1 / 60 Hz | 75 CFM | 128 W | 0.40 in-wg | 2 | Greenheck SP-B150 | 19 | ALL | A |
| EF-3 | CUSTODIAN | Ceiling Exhaust Fan | 115 V / 1 / 60 Hz | 75 CFM | 128 W | 0.40 in-wg | 2 | Greenheck SP-B150 | 19 | ALL | A |
| EF-4 | STORAGE | Ceiling Exhaust Fan | 115 V / 1 / 60 Hz | 50 CFM | 128 W | 0.40 in-wg | 2 | Greenheck SP-B150 | 19 | ALL | A |
| EF-5 | SHARED PROCEDURE | Ceiling Exhaust Fan | 115 V / 1 / 60 Hz | 375 CFM | 350 W | 0.40 in-wg | 3 | Greenheck SPA-700 | 36 | ALL | A |
| EF-6 | SHARED PROCEDURE | Ceiling Exhaust Fan | 115 V / 1 / 60 Hz | 375 CFM | 350 W | 0.40 in-wg | 3 | Greenheck SPA-700 | 36 | ALL | A |
| EF-7 | SOILED UTILITY | Ceiling Exhaust Fan | 115 V / 1 / 60 Hz | 100 CFM | 128 W | 0.40 in-wg | 2 | Greenheck SP-B150 | 19 | ALL | A |
| EF-8 | STAFF RR | Ceiling Exhaust Fan | 115 V / 1 / 60 Hz | 75 CFM | 128 W | 0.40 in-wg | 2 | Greenheck SP-B150 | 19 | ALL | A |
| EF-9 | STAFF RR | Ceiling Exhaust Fan | 115 V / 1 / 60 Hz | 75 CFM | 128 W | 0.40 in-wg | 2 | Greenheck SP-B150 | 19 | ALL | A |
| EF-10 | SHARED LAB | Ceiling Exhaust Fan | 115 V / 1 / 60 Hz | 100 CFM | 128 W | 0.40 in-wg | 2 | Greenheck SP-B150 | 19 | ALL | A |
| EF-11 | MEN'S RR | Ceiling Exhaust Fan | 115 V / 1 / 60 Hz | 175 CFM | 135 W | 0.40 in-wg | 3 | Greenheck SP-A700 | 33 | ALL | A |
| EF-12 | WOMEN'S RR | Ceiling Exhaust Fan | 115 V / 1 / 60 Hz | 175 CFM | 135 W | 0.40 in-wg | 3 | Greenheck SP-A700 | 33 | ALL | A |
| EF-13 | SHARED INJECTION | Ceiling Exhaust Fan | 115 V / 1 / 60 Hz | 150 CFM | 135 W | 0.40 in-wg | 3 | Greenheck SP-A390 | 33 | ALL | A |
| EF-14 | PATIENT RR | Ceiling Exhaust Fan | 115 V / 1 / 60 Hz | 75 CFM | 128 W | 0.40 in-wg | 2 | Greenheck SP-B150 | 19 | ALL | A |
| EF-15 | CUSTODIAN | Ceiling Exhaust Fan | 115 V / 1 / 60 Hz | 75 CFM | 128 W | 0.40 in-wg | 2 | Greenheck SP-B150 | 19 | ALL | A |
| EF-16 | PATIENT RR | Ceiling Exhaust Fan | 115 V / 1 / 60 Hz | 75 CFM | 128 W | 0.40 in-wg | 2 | Greenheck SP-B150 | 19 | ALL | A |
| EF-17 | STAFF RR | Ceiling Exhaust Fan | 115 V / 1 / 60 Hz | 75 CFM | 128 W | 0.40 in-wg | 2 | Greenheck SP-B150 | 19 | ALL | A |

NOTES:

- PROVIDE FACTORY MOUNTED DISCONNECT.
- MANUFACTURER AND MODEL NUMBER LISTED ARE "OR APPROVED EQUAL." REFER TO SPECIFICATIONS.
- PROVIDE FIELD-INSTALLED FAN SPEED CONTROLLER. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR.
- PROVIDE FAN WITH ALL ALUMINUM BACKDRAFT DAMPER.
- PROVIDE DELUXE ALUMINUM GRILLE.
- PROVIDE SPRING TYPE VIBRATION ISOLATORS FROM MANUFACTURER.

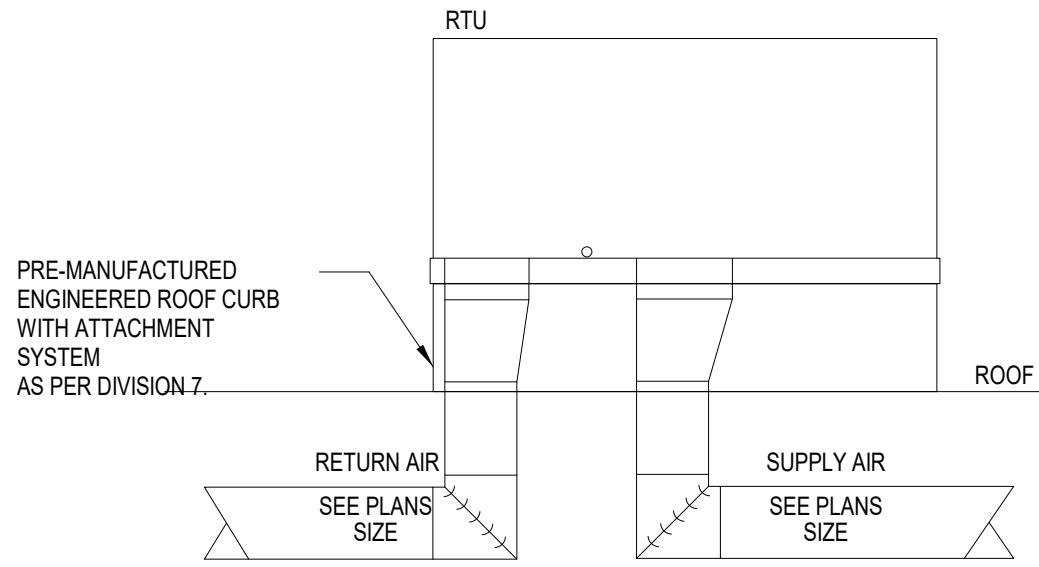
CONTROL NOTES:

- PROVIDE DDC START/STOP POINTS. REFER TO SEQUENCES OF OPERATIONS.

AIR DEVICE & DIFFUSER SCHEDULE

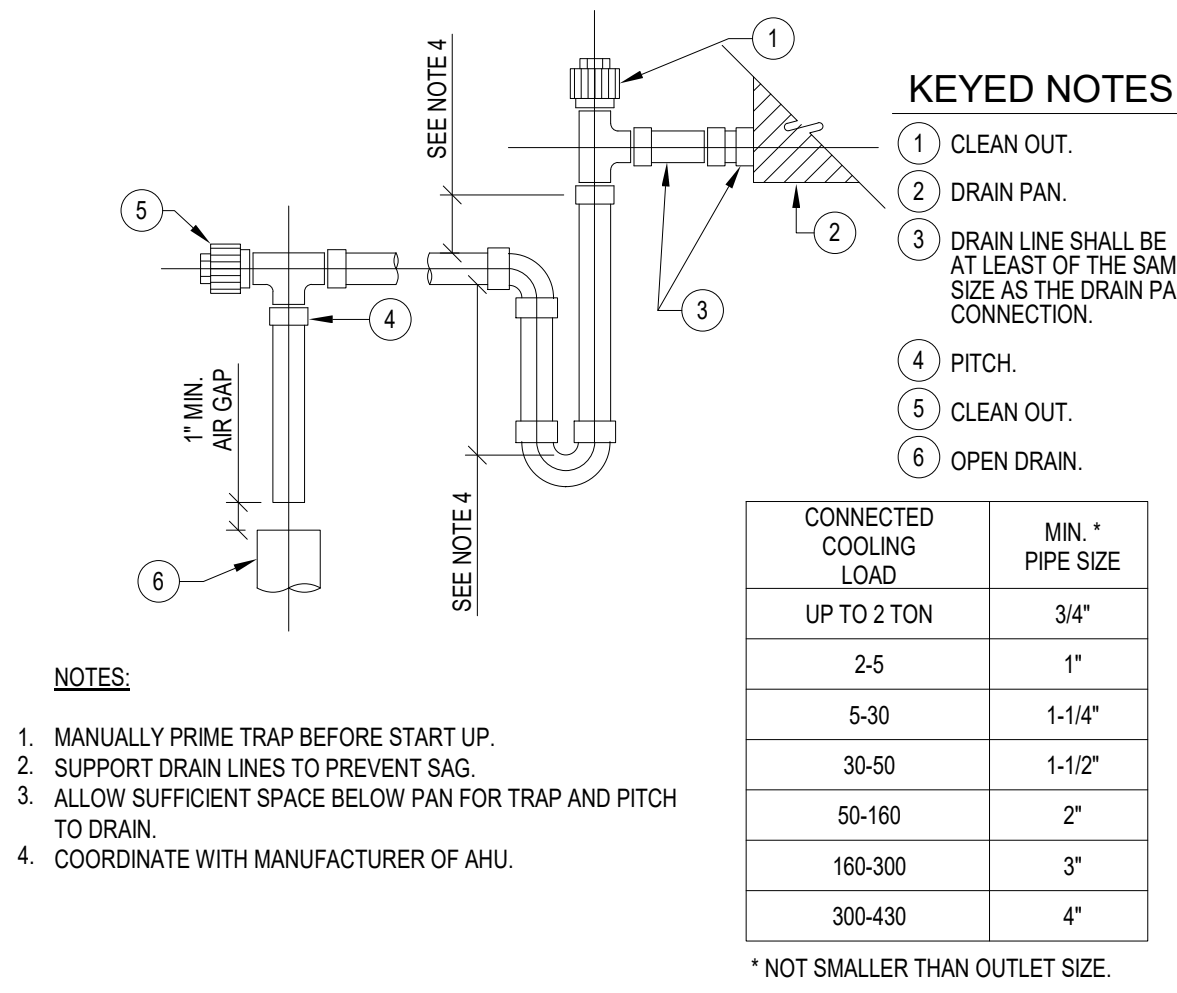
| SUPPLY AIR DIFFUSER (SD-1) | | | | | |
|----------------------------|--|--|------------------|----------------------|---|
| CLG. MODULE SIZE INCHES | | | FACE SIZE INCHES | ROUND NECK SIZE | DESCRIPTION: ALUMINUM SQUARE CEILING DIFFUSER, BORDER TYPE 3, COLOR WHITE WITH ROUND NECK AND FULL FACE |
| 24 X 24 | | | 24 X 24 | TO MATCH NC CRITERIA | FLEX DUCT SIZE DIFFUSER DIFFUSION PATTERN & CFM NOTES |
| | | | | | SEE PLAN SD1-CFM 1-4,6 |

| SUPPLY AIR GRILLE (SD-2) SIDE |
|-------------------------------|
|-------------------------------|



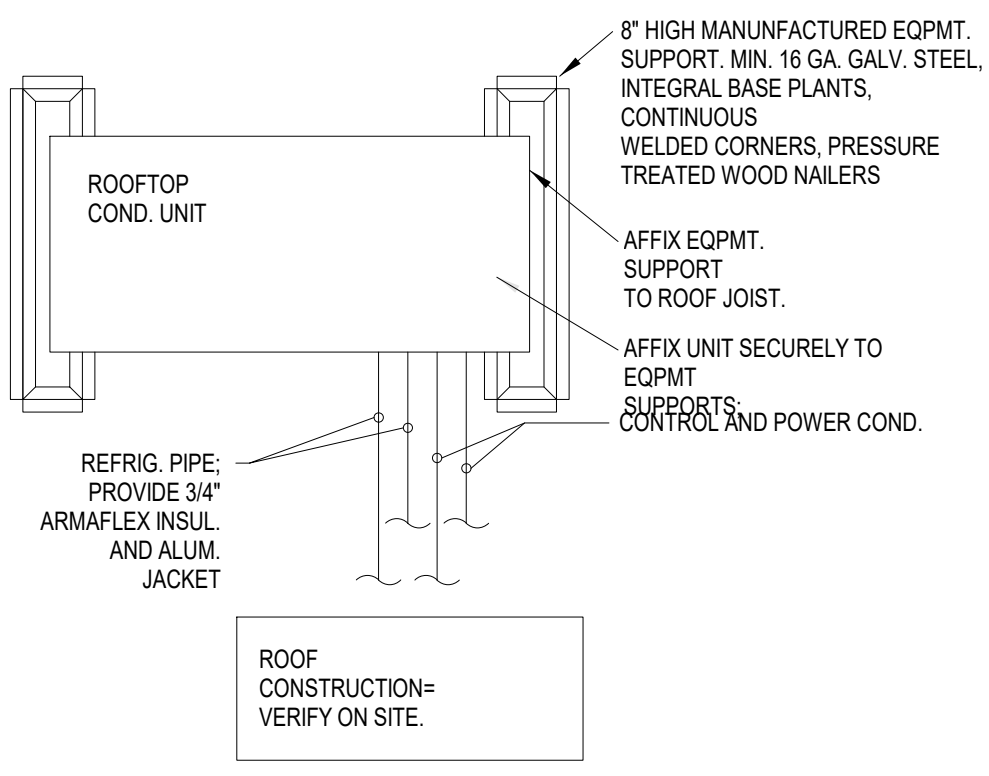
01 ROOFTOP UNIT DETAIL

SCALE : NOT TO SCALE



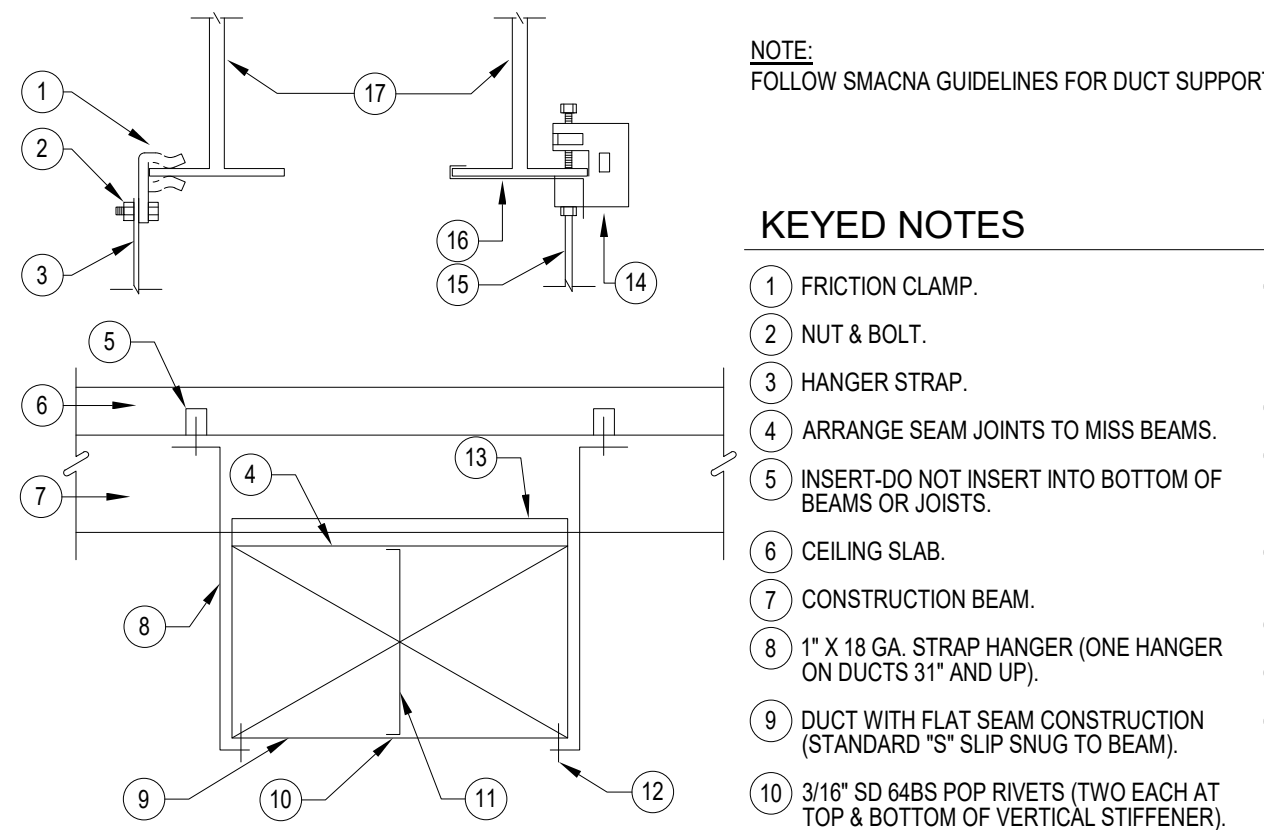
05 CONDENSATE DRAIN DETAIL

SCALE : NOT TO SCALE



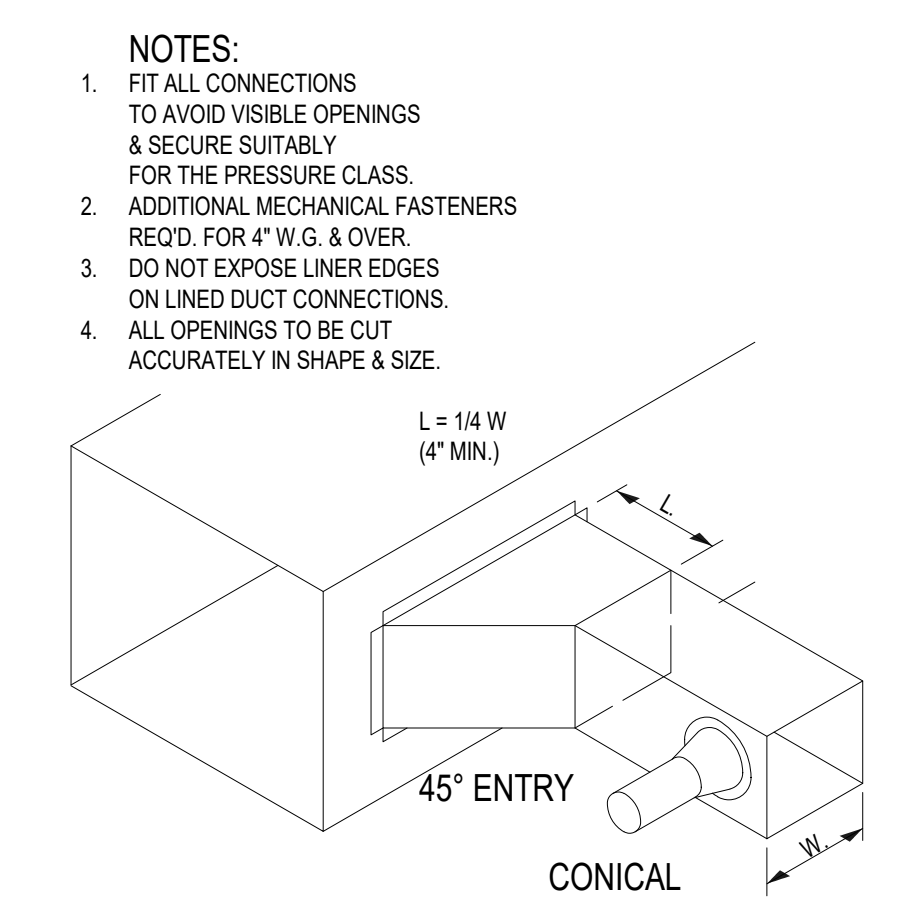
10 ROOFTOP CONDENSING UNIT SUPPORT DETAIL

SCALE : NOT TO SCALE



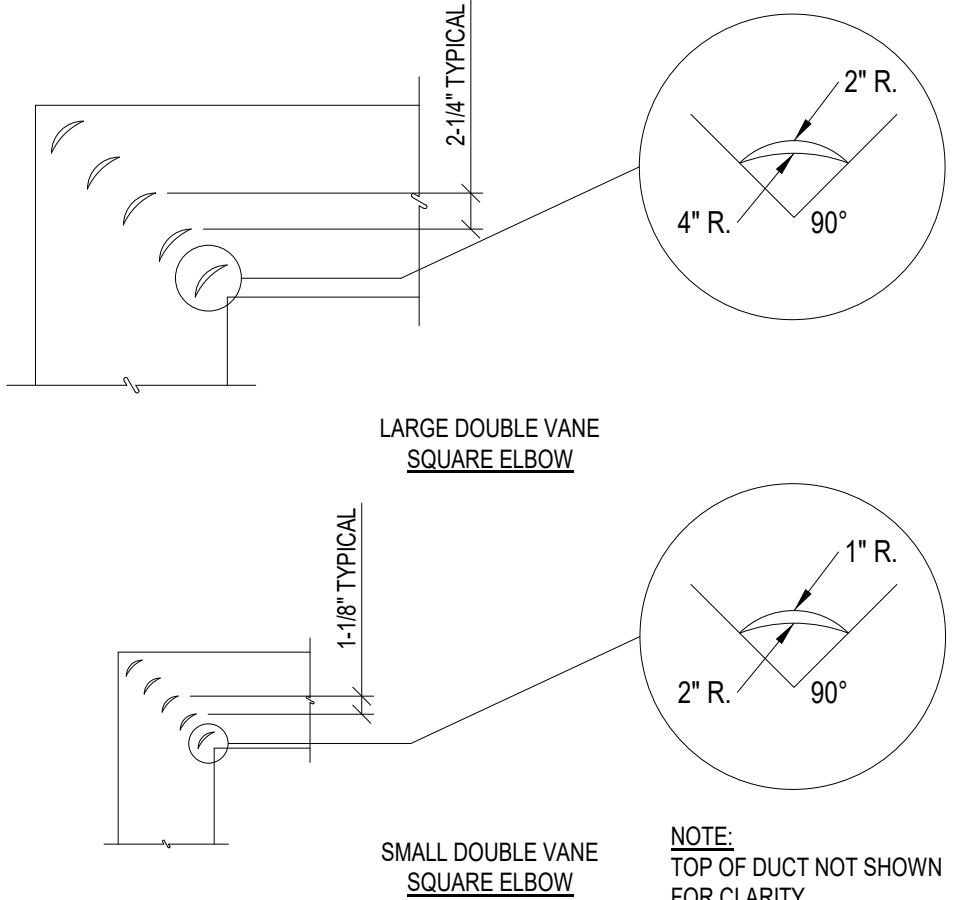
02 TYPICAL DUCT SUPPORT

SCALE : NOT TO SCALE



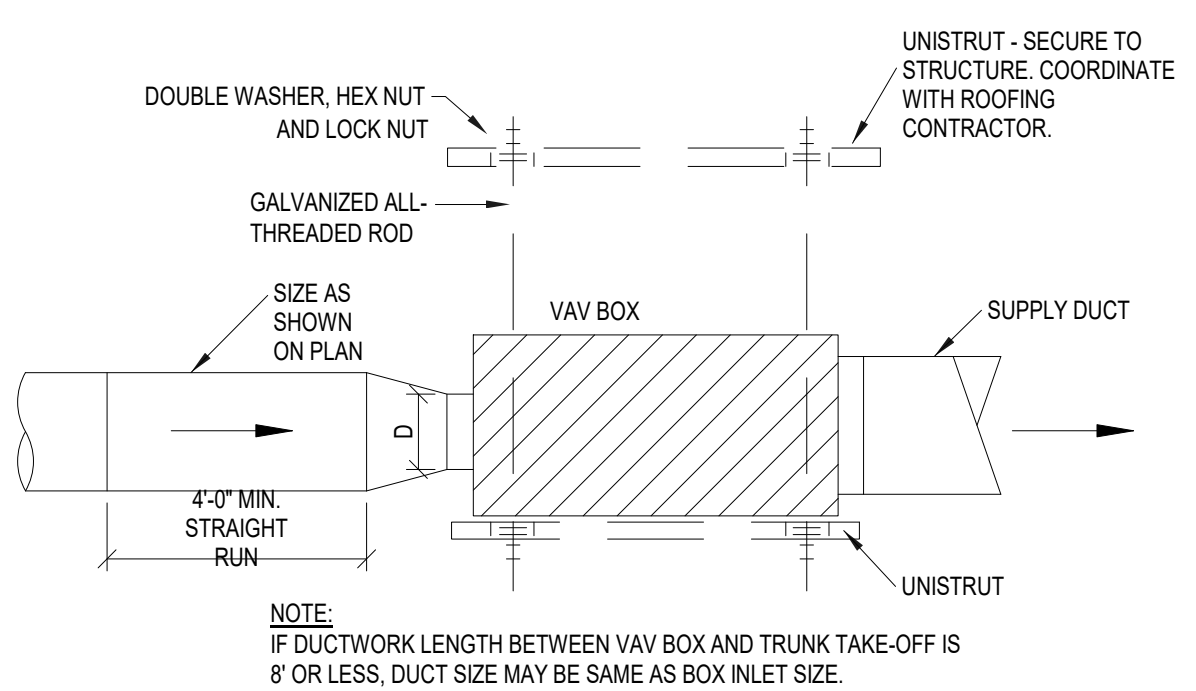
06 BRANCH CONNECTION DETAILS

SCALE : NOT TO SCALE



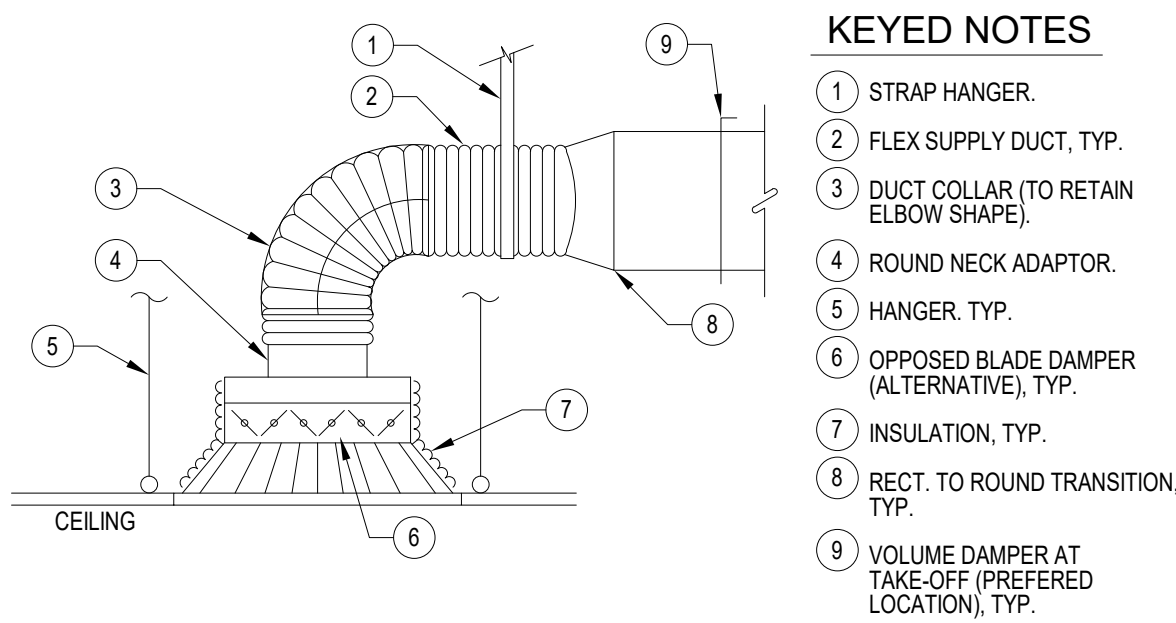
07 TYPICAL VANED DUCT ELBOWS

SCALE : NOT TO SCALE



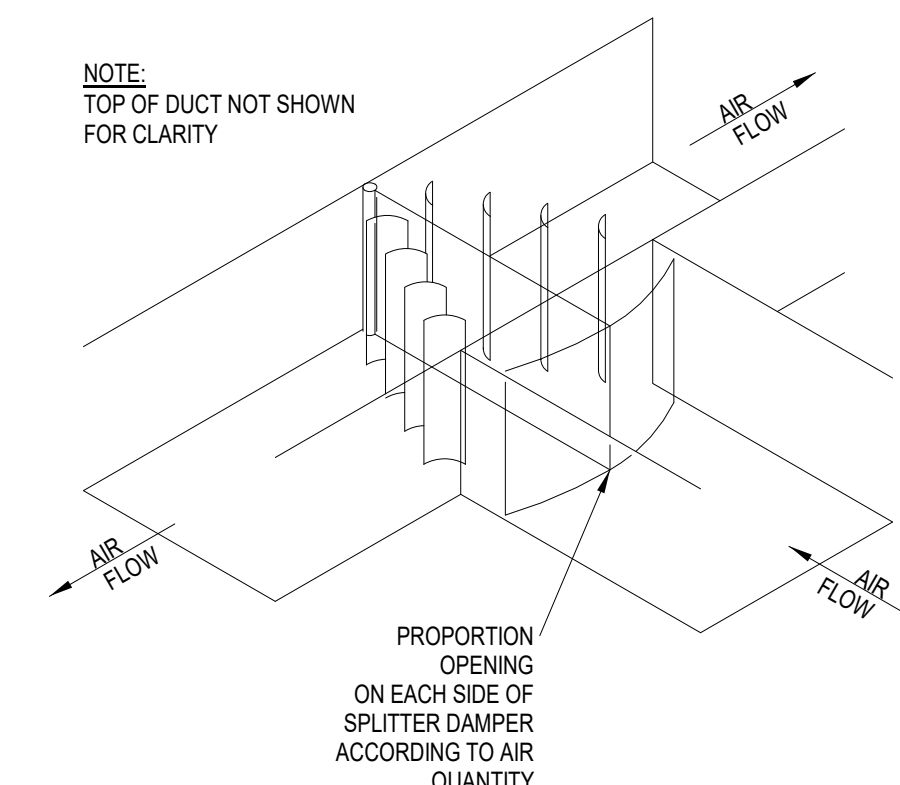
12 TYPICAL VAV BOX DUCT CONNECTION

SCALE : NOT TO SCALE



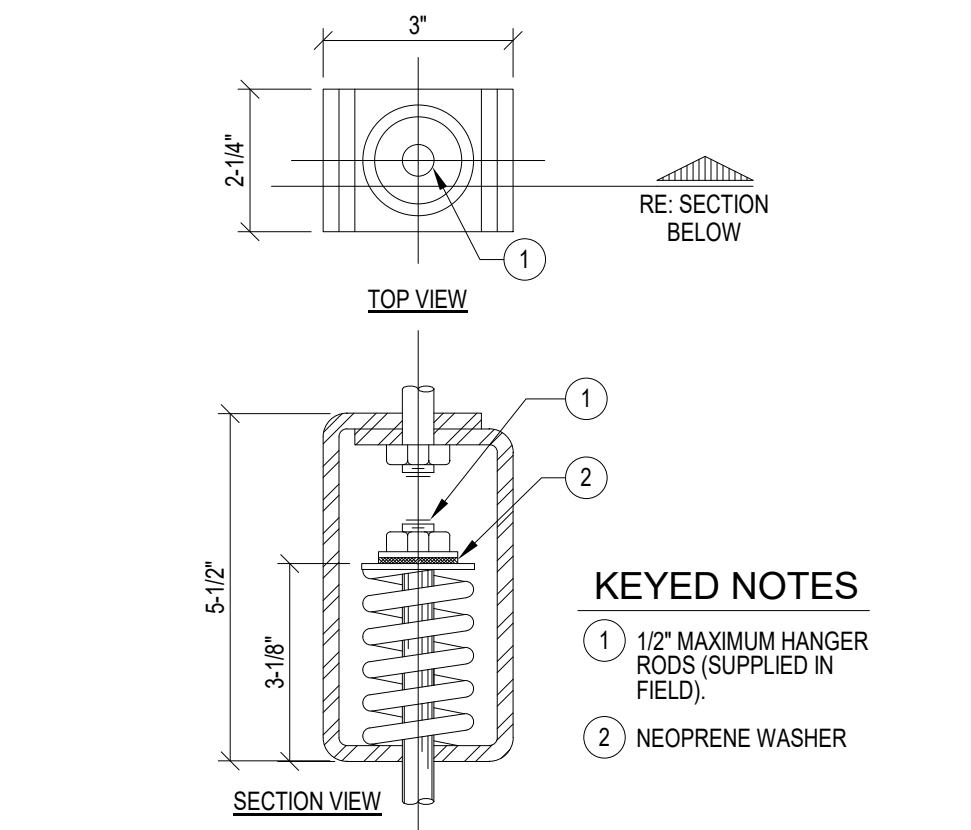
03 CEILING DIFFUSER SUPPORT

SCALE : NOT TO SCALE



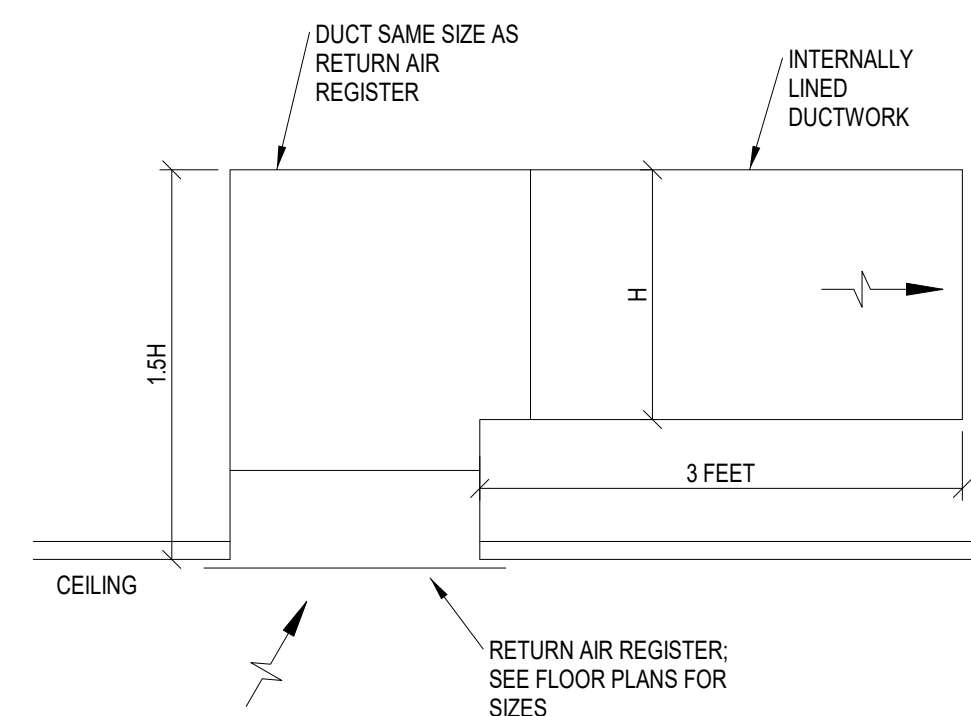
08 TYPICAL SPLITTER DAMPER

SCALE : NOT TO SCALE



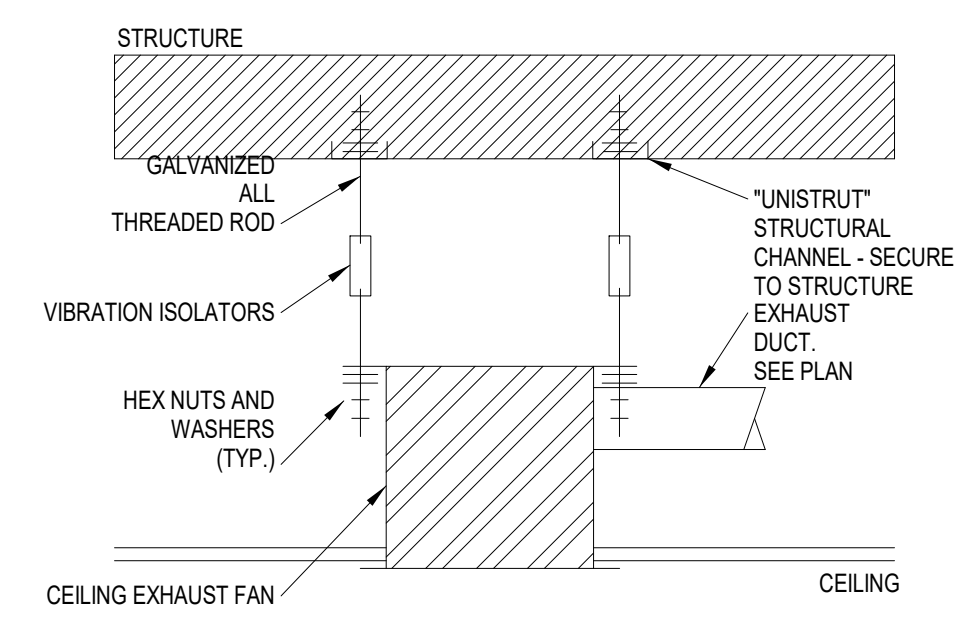
04 SPRING ISOLATION HANGER

SCALE : NOT TO SCALE



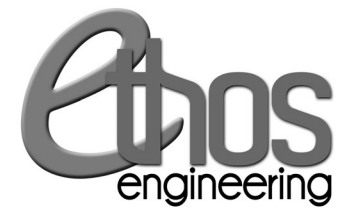
09 RETURN AIR REGISTER

SCALE : NOT TO SCALE



13 CEILING EXHAUST FAN MOUNTING DETAIL

SCALE : NOT TO SCALE

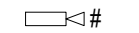


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ENGINEERING FIRM
F-15998

ABBREVIATIONS:

| | | | | | |
|-------------|--------------------------|-------|--|-------|------------------------|
| A | AMPS | FACP | FIRE ALARM CONTROL PANEL | PNL | PANELBOARD |
| ABC | ABOVE CEILING LINE | FCU | FAN COIL UNIT | RF | RADIO FREQUENCY |
| AC | ABOVE COUNTER BACKSPLASH | FS | FLAT SCREEN | RM. | ROOM |
| AFF | ABOVE FINISHED FLOOR | G. | GROUND | SS | STAINLESS STEEL |
| B. | BOTTOM | GA. | GAGE | TSTAT | THERMOSTAT |
| BL.C. | BELOW CEILING LINE | GALV. | GALVANIZED | NTS | NOT TO SCALE |
| C. | CONDUIT OR COMMON | GRND. | GROUND | QTY | QUANTITY |
| CLG. | CEILING | HP | HORSEPOWER | TYP | TYPICAL |
| COMB. | COMBINATION | HVAC | HEATING, VENTILATION, & AIR CONDITIONING | UG | UNDERGROUND |
| COND. | CONDUIT | | | UNO | UNLESS OTHERWISE NOTED |
| CU. | COPPER | INT. | INTRUSION DETECTION | VAV | VARIABLE AIR VOLUME |
| DISC. | DISCONNECT | MDP | MAIN DISTRIBUTION PANEL | V | VOLTS |
| EF | EXHAUST FAN | MECH | MECHANICAL | W | WIRE |
| EXT. | EXTERNAL OR EXTERIOR | MS | MAIN SWITCH | | |
| EXIST. / EX | EXISTING | PH | PHASE | | |





CCCTV SYSTEM SYMBOL LEGEND:

| SYMBOL | DESCRIPTION | MNTG. HT. UNO (SEE NOTE 1) |
|---|---|-------------------------------|
|  # | SECURITY CAMERA - PROVIDE BACK BOX WITH CEILING TILE BRACKET. NUMBER INDICATES AMOUNT OF DATA DROPS FOR EACH. | ---- |

NOTES:

- 1.) PRIOR TO ANY ROUGH-IN COORDINATE EXACT LOCATION OF BACK BOXES WITH CCTV SYSTEM SUPPLIER.

DOOR ACCESS SYMBOL LEGEND:

| SYMBOL | DESCRIPTION | MNTG. HT. UNO (SEE NOTE 1) |
|--|---|-------------------------------|
|  ES | CONNECT DOOR ELECTRIC STRIKE - PROVIDE BACK BOX WITH 1/2" RACEWAY STUBBED TO POWER SUPPLY ABOVE ACCESSIBLE CLG. WITH PULL WIRE. | 12" ABC |
|  RB | DOOR RELEASE BUTTON - PROVIDE BACK BOX WITH 1/2" RACEWAY STUBBED INTO ACCESSIBLE CLG. WITH PULL WIRE. | 48" AFF |
|  CR | CARD READER - PROVIDE BACK BOX WITH 1/2" RACEWAY STUBBED INTO ACCESSIBLE CLG. WITH PULL WIRE. | 48" AFF |
|  P | DOOR POWER SUPPLY - CONNECT TO NEAREST 120V NON-GFCI CIRCUIT. | 12" ABC |

NOTES:

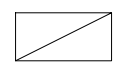
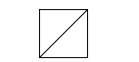



- 1.) 48" AFF INDICATES TO TOP OF DEVICE;
ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

SCOPE OF WORK

1. GENERAL: THE **UTRGV SCHOOL OF MEDICINE - JACKSON RD** * CONSISTS OF A FINISH-OUT, APPROXIMATE 17,847 FT². THIS BUILDING WILL GENERALLY BE OPERATED FROM 7:00AM TO 6:00PM. (MONDAY THROUGH FRIDAY) WITH OCCASIONAL AFTER HOURS AND WEEKENDS USE.
2. ELECTRICAL: PROVIDE ALL MATERIALS AND LABOR ASSOCIATED WITH COMPLETE OPERATIONAL ELECTRICAL DISTRIBUTION SYSTEM. MAJOR ITEMS OF WORK INCLUDE, BUT ARE NOT LIMITED TO:

- (a) ELECTRICAL SERVICE:
(i) A UTILITY PAD MOUNT TRANSFORMER CONCRETE PAD EXISTS AS WELL AS A WIRING TROUGH. SEE ELECTRICAL RISER DIAGRAM.
- (b) LIGHTING SYSTEMS: INTERIOR LIGHTING SYSTEM SHALL CONSIST OF LED TYPE. EXTERIOR LIGHTING IS EXISTING TO REMAIN AS IS.
- (c) LIGHTING CONTROLS (SWITCHES, OCCUPANCY SENSORS, ETC.): PROVIDE AS NOTED ON PLANS SPECIFICATIONS. IT'S THE INTENT FOR THEM TO BE WIRED TO AUTOMATICALLY CONTROL THE LUMINAIRES IN THEIR RESPECTIVE AREAS.
- (d) COMMISSIONING: PROVIDE FOR THE LIGHTING EQUIPMENT AND LIGHTING CONTROLS AS REQUIRED PER IECC 2015.
- (e) POWER SYSTEMS: PROVIDE MISCELLANEOUS DUPLEX RECEPTACLES; DUPLEX RECEPTACLES FOR COMPUTER TERMINALS; DUPLEX RECEPTACLES FOR FLAT SCREENS CONNECTIONS FOR OFFICE FURNITURE, AND POWER FOR H.V.A.C. AND PLUMBING EQUIPMENT.
- (f) FIRE ALARM SYSTEM:
(i) PROVIDE AN ADDRESSABLE CONTROL PANEL WITH MANUAL AND AUTOMATIC INITIATION DEVICES. INDICATING DEVICES SHALL ALSO BE PROVIDED TO COMPLY WITH TDLR. IT SHALL BE INTERFACED WITH UTRGV MAIN CAMPUS SYSTEM.
- (ii) FULLY COORDINATE WITH THE ACCESS CONTROL CONTRACTOR FOR THE FIRE ALARM INTERFACING.
- (g) COMMUNICATION AND DATA PROCESSING EQUIPMENT: PROVIDE CABLING, CONNECTORS, PATCH PANELS, RACKS, ETC.
- (h) MULTIMEDIA SYSTEM: PROVIDE ROUGH-INS FOR MULTIMEDIA OUTLETS AND VOLUME CONTROLLERS. CONNECTORS, CABLING AND OUTLETS BY OWNER.
- (i) INTRUSION DETECTION SYSTEM: IT SHALL CONSIST OF A CONTROL PANEL, KEYPADS, GLASS BREAK SENSORS, MOTION DETECTORS AND MAGNETIC CONTACTS AS NOTED ON DRAWINGS. IT SHALL BE MONITORED BY THE UTRGV MAIN CAMPUS POLICE DEPARTMENT.




LIGHTING SYMBOL LEGEND:

| SYMBOL | DESCRIPTION | MNTG. HT. UNO (SEE NOTE 1) |
|---|--|-------------------------------|
|  | 2X4' LIGHT FIXTURE - TYPE AS NOTED | ---- |
|  | 2X2' LIGHT FIXTURE - TYPE AS NOTED | ---- |
|  | PENDANT LIGHT FIXTURE - TYPE AS NOTED | |
|  | SINGLE FACE EXIT SIGN (DIRECTIONAL ARROWS WHERE INDICATED) | ---- |
|  | DOUBLE FACE EXIT SIGN (DIRECTIONAL ARROWS WHERE INDICATED) | ---- |

NOTES:

- 1.) REFERENCE LIGHT FIXTURE SCHEDULE FOR ALL MOUNTING HEIGHTS.









LIGHTING WIRING DEVICES SYMBOL LEGEND:

| SYMBOL | DESCRIPTION | MNTG. HT. UNO (SEE NOTE 1) |
|--|---|-------------------------------|
|  S | SINGLE POLE TOGGLE SWITCH - HUBBELL MODEL #HBL1221X | 48" AFF |
|  EF | EXHAUST FAN TIMER SWITCH - LUTRON MODEL #MA-T51 | 48" AFF |
|  T | 1P TOGGLE SWITCH THERMAL TYPE - CUTLER HAMMER "MS" SERIES WIRED PILOT LIGHT & HANDLE GUARD/LOCK OFF | 48" AFF |

NOTES:

- 1.) 48" AFF INDICATES TO TOP OF DEVICE;
ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.


WIRING DEVICES SYMBOL LEGEND:

| SYMBOL | DESCRIPTION | MNTG. HT. UNO (SEE NOTE 1) |
|---|---|-------------------------------|
|  | DUPLEX RECEPTACLE - HUBBELL MODEL #5352X | 18" AFF |
|  GFCI | DUPLEX RECEPTACLE W/ GROUND FAULT INTERRUPTING TYPE - HUBBELL MODEL #GF20X | 18" AFF |
|  GFCI WICP | DUPLEX RECEPTACLE W/ GROUND FAULT INTERRUPTING TYPE - HUBBELL MODEL #GFTWRST20X AND WHILE IN USE WEATHERPROOF COVER - HUBBELL MODEL #WP26EH | 18" AFF |
|  AC GFCI | DUPLEX RECEPTACLE - HUBBELL MODEL #GF20X MOUNT @ +4" HORIZONTALLY ABOVE COUNTER BACKSPLASH (U.N.O.) | 4" AC |
|  FS | DUPLEX RECEPTACLE FOR FLAT SCREEN - HUBBELL MODEL #CR5352X | 72" AFF |
|  USB | DUPLEX RECEPTACLE AND USB RECEPTACLE COMBINATION - HUBBELL MODEL #USB20X2X | 18" AFF |
| | QUADPLEX RECEPTACLE - HUBBELL MODEL #5352X (2 QTY.) | 18" AFF |
|  J | JUNCTION BOX W/ BLANK STAINLESS STEEL COVERPLATE | AS REQUIRED |
|  | SPECIAL RECEPTACLE - TYPE AS NOTED | 18" AFF |

NOTES:

- 1.) U.N.O. INDICATES UNLESS NOTED OTHERWISE.
18" AFF INDICATES TO TOP OF DEVICE;
ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.
AC INDICATES 4" ABOVE COUNTER TO BOTTOM OF DEVICE.

FLOOR BOX SYMBOL LEGEND:

| SYMBOL | DESCRIPTION | MNTG. HT. UNO (SEE NOTE 1) |
|---|--|-------------------------------|
|  | FLOOR BOX W/ COVER PLATES FOR WIRING DEVICES AS INDICATED. PROVIDE SPECIAL SYSTEMS RACEWAYS, 1 - 1" (POWER), 1-1" (DATA). PROVIDE BLANK COVERS FOR UNUSED COMPARTMENTS - HUBBELL MODEL #CFB6G30/CFBHUB2610GCCV/RBRSC/CFBHUB2. NUMBER INDICATES AMOUNT OF DROPS FOR EACH. | FLOOR |

NOTES:

- 1.) TOP OF FLOOR BOX TO BE FLUSH WITH FINISHED FLOOR. SEE ARCHITECTURAL DRAWINGS FOR FLOOR TYPES. COORDINATE LOCATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO ANY ROUGH-IN.





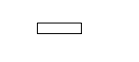




LUTRON CONTROL SYMBOLS:

| | | |
|---|--|-------------|
|  | 2-BUTTON WALLSTATION - LUTRON MODEL #PX-2B-GWH-I01 (CW-1-WH) | 48" AFF |
|  | WALLSTATION - LUTRON MODEL #QSW52-2BI-WH | 48" AFF |
|  | DIMMING WALLSTATION - LUTRON MODEL #NTSTV-DV-WH | 48" AFF |
|  | 2-BUTTON DIMMING WALLSTATION - LUTRON MODEL #PX-2BRL-GWH-I01 (CW-1-WH) | 48" AFF |
|  | ENERGI SAVR NODE - LUTRON MODEL #QSN-4T16-S | ABOVE CLG. |
|  | OCCUPANCY/VACANCY WALL SENSOR SWITCH LUTRON MODEL #MS-OPS6M2-DV-WH | 48" AFF |
|  | OCCUPANCY/VACANCY SENSOR - LUTRON MODEL #LOS-CDT-2000-WH | CLG. |
|  | POWER PACK - LUTRON MODEL #PP-DV | ABOVE CLG. |
|  | CONTROLLER INTERFACE - LUTRON MODEL #QSE-CH-AP-D | AS REQUIRED |
|  | WIRELESS SETUP KIT - LUTRON MODEL #C-ESN-SETUP | AS REQUIRED |
|  | TIME CLOCK - LUTRON MODEL #QSGR-TC-3S-WH-CPN5825 | AS REQUIRED |
|  | WALLSTATION - LUTRON MODEL #MA-AS-WH | |

NOTES:

- 1.) 48" AFF INDICATES TO TOP OF DEVICE. ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.
REFERENCE LIGHTING CONTROL SCHEMATIC DETAILS FOR ALL LUTRON CONTROLS WIRING REQUIREMENTS.



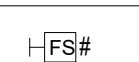
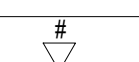
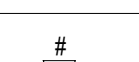
FIRE ALARM SYMBOL LEGEND:

| SYMBOL | DESCRIPTION | MNTG. HT. UNO (SEE NOTE 1) |
|---|--|-------------------------------|
|  | FIRE ALARM MANUAL PULLSTATION | 48" AFF |
|  | FIRE ALARM STROBE HORN CEILING OR WALL MOUNTED - PROVIDE 15/75 CANDELA U.N.O. - PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE. | CLG. |
|  | FIRE ALARM STROBE LIGHT CEILING OR WALL MOUNTED - PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE. | CLG. |
|  | FIRE ALARM SMOKE DETECTOR CEILING OR WALL MOUNTED - PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE. | CLG. |
|  | FIRE ALARM CONTROL PANEL (FLUSH MOUNTED) | AS REQUIRED |
|  | FIRE ALARM H.V.A.C. DUCT SMOKE DETECTOR W/ SHUNT TRIP RELAY | ---- |
|  | FIRE SPRINKLER FLOW SWITCH | ---- |
|  | FIRE SPRINKLER TAMPER SWITCH | ---- |
|  | FIRE SPRINKLER RISER ALARM SPEAKER STROBE | 80" AFF |

NOTES:

- 1.) 48" AFF INDICATES TO TOP OF DEVICE;
ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.





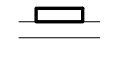

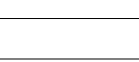

SPECIAL SYSTEMS SYMBOL LEGEND:

| SYMBOL | DESCRIPTION | MNTG. HT. UNO (SEE NOTE 1) |
|---|---|-------------------------------|
|  | 2-GANG MULTIMEDIA OUTLET - PROVIDE LARGE CAPACITY WALL BOX HUBBEL MODEL NO. HBL260 WITH 1.5" RACEWAY STUBBED INTO ACCESSIBLE CLG. WITH PULL WIRE. AND MUD RING. SEE DETAIL. NUMBER INDICATES AMOUNT OF DROPS FOR EACH. | 18" AFF |
|  | VOICE CONTROLLER OUTLET - PROVIDE BACK BOX WITH 3/4" C STUBBED INTO ACCESSIBLE CLG. WITH PULL WIRE. SEE MULTI MEDIA DETAIL. | 48" AFF |
|  | 3-GANG FLAT SCREEN OUTLET - PROVIDE LARGE CAPACITY WALL BOX HUBBEL MODEL NO. HBL263 WITH 1.5" RACEWAY STUBBED INTO MULTIMEDIA, PULL WIRE, MUD RING AND HBL981 LOW VOLTAGE DIVIDER. NUMBER INDICATES AMOUNT OF DROPS FOR EACH. | 72" AFF |
|  | DATA OUTLET - PROVIDE BACK BOX WITH 1" RACEWAY STUBBED INTO ACCESSIBLE CLG. WITH PULL WIRE - SEE DETAIL. NUMBER INDICATES AMOUNT OF DROPS. | 18" AFF |
|  | WiFi ACCESS POINT - PROVIDE BACK BOX WITH 1" RACEWAY STUBBED INTO ACCESSIBLE CLG. WITH PULL WIRE - SEE DETAIL. NUMBER INDICATES AMOUNT OF DROPS. | ---- |







NOTES:

- 1.) 48" AFF INDICATES TO TOP OF DEVICE.
ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

GENERAL SYMBOL LEGEND:

| SYMBOL | DESCRIPTION | MNTG. HT. UNO (SEE NOTE 1) |
|---|---|-------------------------------|
|  | 1P TOGGLE SWITCH-THERMAL TYPE - SQUARE "D" CLASS 2510 W/ RED PILOT LIGHT & HANDLE GUARD/LOCK OFF | AS REQUIRED |
|  | EXHAUST FAN TIMER SWITCH - SENSOR SWITCH MODEL #PTS 720 X | 48" AFF |
|  | DISCONNECT SWITCH - NON FUSED | AS REQUIRED |
|  | EQUIPMENT CONNECTION | AS REQUIRED |
|  | ELECTRICAL PANELBOARD - SURFACE MOUNTED | AS REQUIRED |
|  | BELOW FLOOR | AS REQUIRED |
|  | CONCEALED RACEWAY | AS REQUIRED |
|  | CONDUIT OR EMT HOMERUN TO PANELBOARD CONCEALED IN WALLS OR ABOVE CEILING. LONG CROSSMARKS DENOTE NUMBER OF "HOT" CONDUCTORS SHORT CROSSMARKS INDICATE NEUTRALS AND DOTS INDICATE NUMBER OF GROUND CONDUCTORS. ARROW INDICATES HOME RUN TO ELECTRICAL PANEL. | AS REQUIRED |

INTRUSION DETECTION SYMBOL LEGEND:

| SYMBOL | DESCRIPTION | MNTG. HT. UNO (SEE NOTE 1) |
|---|--|-------------------------------|
|  | INTRUSION DETECTION DOOR MAGNETIC CONTACT | ---- |
|  | INTRUSION DETECTION MOTION DETECTOR - FULL COVERAGE TYPE | 9'-0" AFF |
|  | INTRUSION DETECTION KEYPAD - PROVIDE WITH STI COVER | 48" AFF |
|  | INTRUSION DETECTION GLASS BREAK SENSOR | ---- |
|  | INTRUSION DETECTION INDOOR SIREN | 80" AFF |
|  | INTRUSION DETECTION OUTDOOR SIREN | 10'-0" AFF |

NOTES:

- 1.) 48" AFF INDICATES TO TOP OF DEVICE;
ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.



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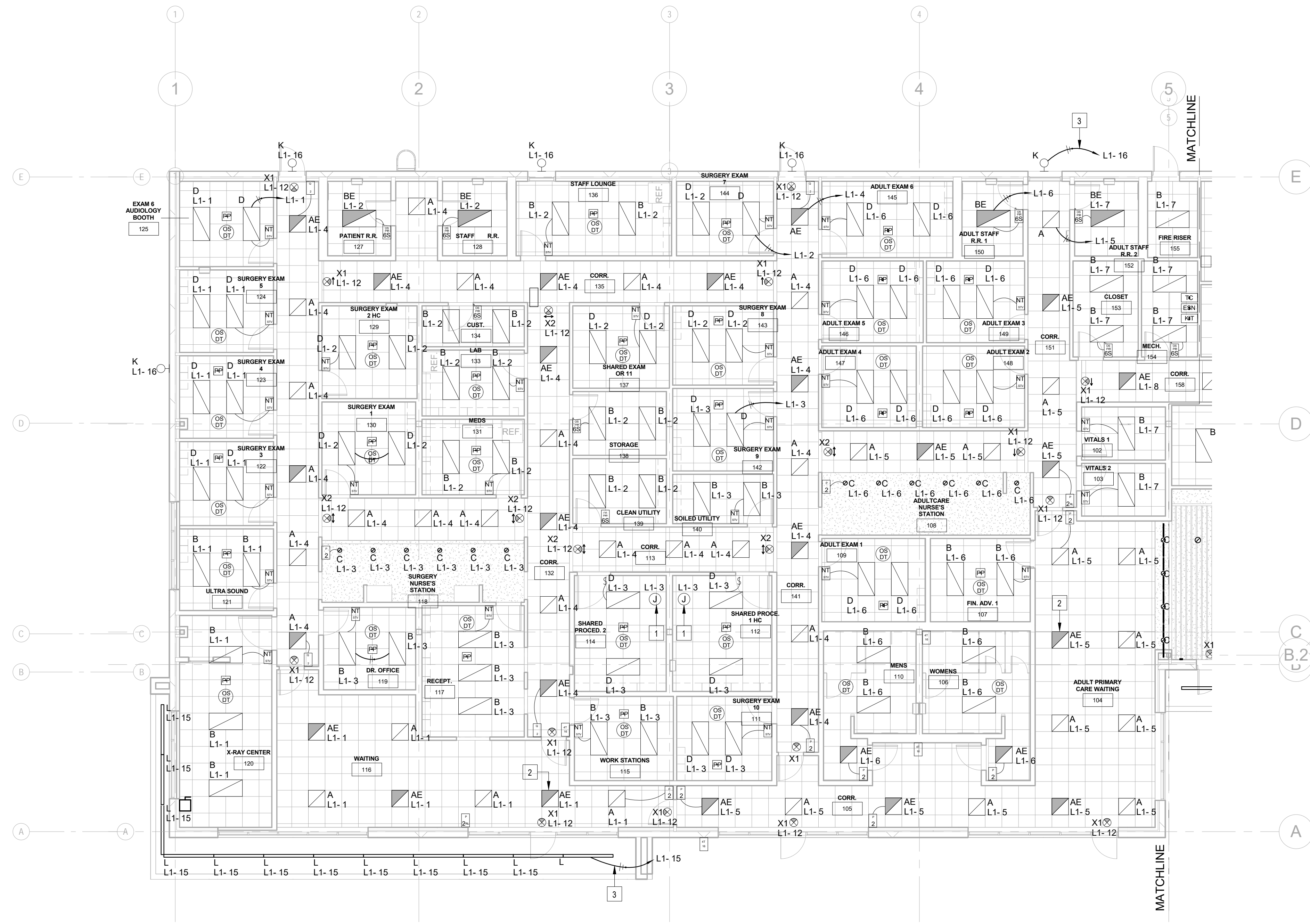


Project # 18v15
Owner
UTRGV - SCHOOL OF MEDICINE - JACKSON RD.
Enter address here

Issue Date 10/31/2018

Electrical
Symbols Legend
& Abbreviations

E2.01



1 Lighting Floor Plan - Area A
1/8" = 1'-0"

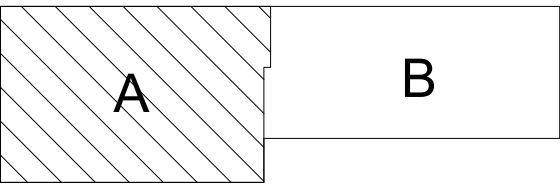
GENERAL NOTES:

1. LIGHTING BRANCH CIRCUIT HOMERUNS SHALL BE 3/4" - 2#12G. 20A/277V HOMERUNS EXCEEDING 200 FT THE WIRE SIZE SHALL BE #10 & #8 FOR 275'.
2. INTERIOR LIGHTING CONTROLS SHALL BE BY OCCUPANCY SENSORS.
3. REFER TO LIGHTING CONTROLS ONE-LINE DIAGRAMS FOR WIRING REQUIREMENTS.
4. PROVIDE 0-10V SIGNAL WIRE TO EACH DIMMED LIGHT FIXTURE DRIVER AND WALL SWITCH.

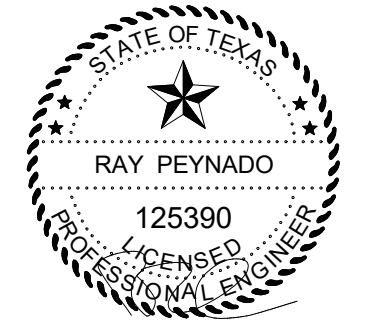
ELECTRICAL KEYED NOTES:

1. CONNECT OWNER PROVIDED SURGICAL LIGHT.
2. CONNECT EMERGENCY BATTERY PACK TO BE CHARGING AT ALL TIMES (UNSWITCHED). LIGHT FIXTURE SHALL BE OPERATED BY THE CORRESPONDING SWITCH - TYPICAL.
3. SWITCH VIA LIGHTING MANAGEMENT CONTROL PANEL.
4. PROVIDE ENERGI SAVR NODE PANEL ABOVE CEILING TOTHE NEAREST 120V NON-GFCI CIRCUIT - TYPICAL.

KEYPLAN



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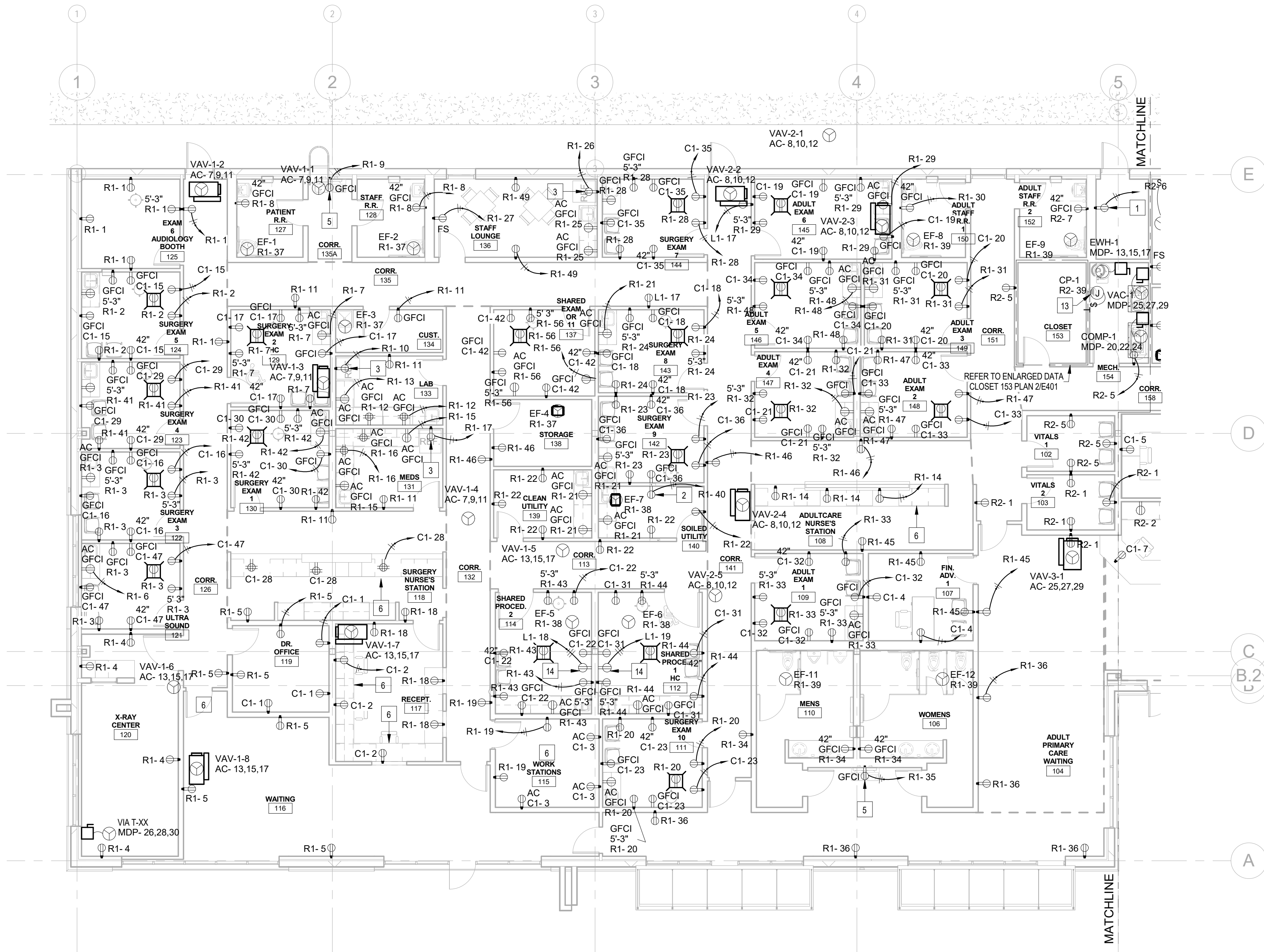


1. LIGHTING BRANCH CIRCUIT HOMERUNS SHALL BE 3/4" - 2#12G, 20A/277V HOMERUNS EXCEEDING 200 FT THE WIRE SIZE SHALL BE #10 & #8 FOR 275'.
2. INTERIOR LIGHTING CONTROLS SHALL BE BY OCCUPANCY SENSORS.
3. REFER TO LIGHTING CONTROLS ONE-LINE DIAGRAMS FOR WIRING REQUIREMENTS.
4. PROVIDE 0-10V SIGNAL WIRE TO EACH DIMMED LIGHT FIXTURE DRIVER AND WALL SWITCH.

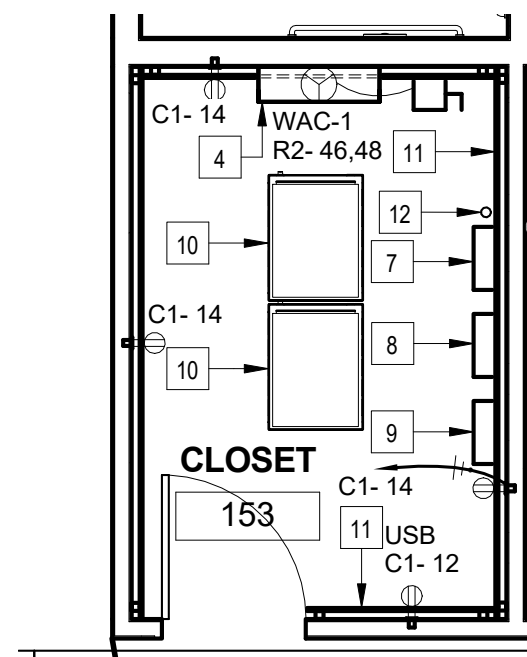
- 1 NO DUCTWORK OR PIPING TO BE ROUTED ABOVE PANELBOARDS. COORDINATE WITH OTHER TRADES - TYPICAL.
- 2 SUSPEND LIGHT FIXTURE TYPE "J" AT 8 - 0" AFF TO BOTTOM OF FIXTURE - TYPICAL.
- 3 CONNECT EMERGENCY BATTERY PACK TO BE CHARGING AT ALL TIMES (UNSWITCHED). LIGHT FIXTURE SHALL BE OPERATED BY THE CORRESPONDING SWITCH - TYPICAL.
- 4 PROVIDE ENERGI SAVR NODE PANEL ABOVE CEILING TO THE NEAREST 120V NON-GFCI CIRCUIT - TYPICAL.
- 5 SUSPEND LIGHT FIXTURE TYPE "F" AT 8 - 0" AFF TO BOTTOM OF FIXTURE - TYPICAL.
- 6 PROVIDE TAPE LIGHT TYPE "G" IN COVE. SEE DETAIL.
- 7 PROVIDE UNISTRUT AND THREADED RODS TO SUSPEND LIGHT FIXTURE TYPE "H" AT 13'-0" AFF. COORDINATION WITH HVAC DUCT WORK.
- 8 SWITCH VIA LIGHTING MANAGEMENT CONTROL PANEL.



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① Electrical Floor Plan - Area A
1/8" = 1'-0"



② Electrical Data Closet 153 Enlargement Plan
1/4" = 1'-0"

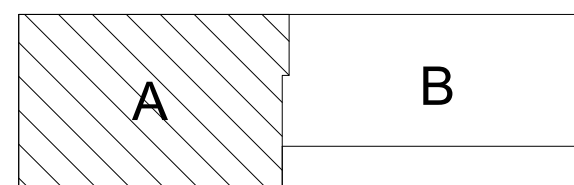
GENERAL NOTES:

1. PROVIDE BRANCH CIRCUITS 1/2" - 2#12 & #12G (UNO).
2. EACH 20A/1P BRANCH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL.
3. ELECTRICAL BRANCH CIRCUIT HOMERUNS SHALL BE 3/4" - 2#12 & #12G. 20A/120V HOMERUNS EXCEEDING 100 FT, THE WIRE SIZE SHALL BE #10 & #8 FOR 175'.
4. HOMERUNS - INSTALL NO MORE THAN THREE PER RACEWAY (INCLUDING LIGHTING BRANCH CIRCUITS); 3 INSULATED "HOT", 3 INSULATED "NEUTRAL" AND 1 SHARED "GROUND".
5. PROVIDE ALL ELECTRICAL RECEPTACLES INSTALLED WITH THE GROUND UP OPENING IN THE "UP" POSITION.
6. COORDINATE FURNITURE EXACT ROUGH-IN AND POWER/DATA NEEDS WITH FURNITURE SUBCONTRACTOR.
7. PAINT ALL EXPOSED RACEWAYS, HANGERS, BOXES, SUPPORTS AND ACCESSORIES IN INTERIOR AND EXTERIOR EXPOSED AREAS. COORDINATE PAINT TYPE, COLOR AND SCOPE OF WORK WITH ARCHITECT.
8. PROVIDE J-HOOKS TO SUPPORT THE FIRE ALARM, INTRUSION DETECTION, VOICE, INTERCOM AND DATA CABLING.
9. PROVIDE FIRE ALARM INTERLOCK FOR ALL DOOR ACCESS SYSTEMS INCLUDING WIRING.

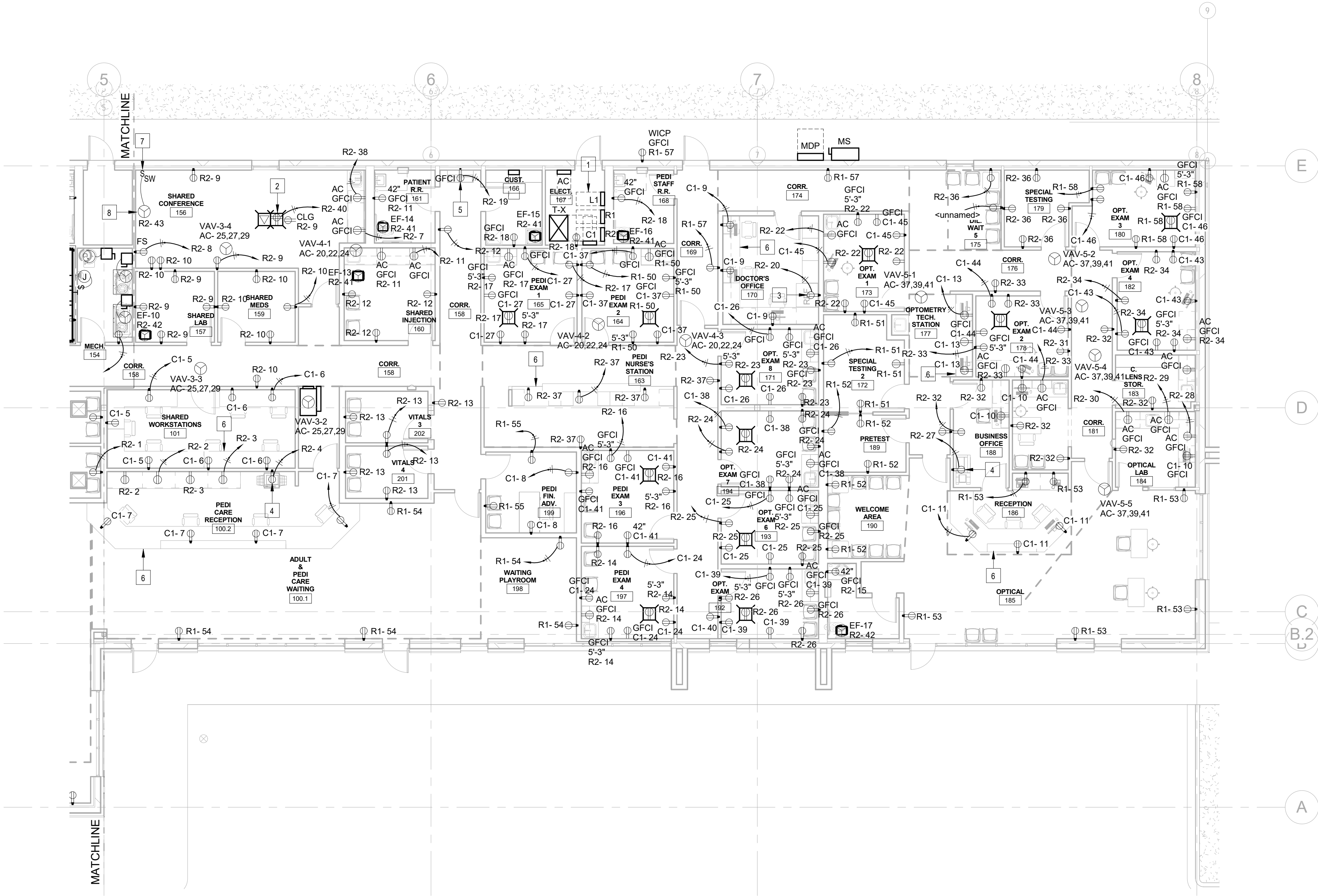
ELECTRICAL KEYED NOTES:

1. CONNECT FLOW SWITCH.
2. CONNECT ENDOSCOPE REPROCESSOR.
3. CONNECT REFRIGERATOR.
4. PROVIDE POWER FROM ACCU-1.
5. CONNECT ELECTRIC DRINKING FOUNTAIN: ROUGH-IN AT 17-7/16" TO CENTER OF J-BOX - TYPICAL. COORDINATE WITH PLUMBING CONTRACTOR.
6. PROVIDE GROMMETS THROUGH COUNTERTOP TO ACCESS RECEPTACLES BELOW COUNTER INSIDE KNEE SPACE. CONCEAL RACEWAYS WITHIN MILLWORK BACK TO WALL.
7. PROVIDE AND CONNECT DOOR ACCESS CONTROL PANEL; PROVIDE A DATA OUTLET.
8. PROVIDE AND CONNECT INTRUSION DETECTION SYSTEM CONTROL PANEL. PROVIDE A DATA OUTLET.
9. PROVIDE AND CONNECT FIRE ALARM CONTROL PANEL. PROVIDE TWO TELEPHONE CONNECTIONS AND A DATA OUTLET.
10. PROVIDE AND CONNECT DATA RACK.
11. PROVIDE 3/4" X 4", PLYWOOD TELEPHONE BOARDS ON ALL WALLS. FIRE RESISTIVE TREATED (A-D INT-APA). MOUNT AT 24" AFF.
12. PROVIDE GROUND BUS BAR. REFER TO ONE LINE DIAGRAM.
13. CONNECT CIRCULATING PUMP: BRANCH CIRCUIT: 1/2" - 2#12 & #12G. COORDINATE POINT OF CONNECTION WITH PLUMBING CONTRACTOR. PROVIDE THERMAL SWITCH 20A/1P WITHOUT OVERLOADS IN A NEMA 1 SURFACE ENCLOSURE.
14. CONNECT LASERSCOPE; BRANCH CIRCUIT: 3/4" - 2#10 & #10G. PROVIDE A NEMA L6-30R RECEPTACLE.

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1 Electrical Floor Plan - Area B
1/8" = 1'-0"

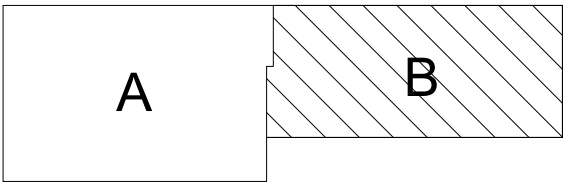
GENERAL NOTES:

1. PROVIDE BRANCH CIRCUITS 1/2" - 2#12 & #12G (UNO).
2. EACH 20A/1P BRANCH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL.
3. ELECTRICAL BRANCH CIRCUIT HOMERUNS SHALL BE 3/4" - 2#12 & #12G. 20A/120V HOMERUNS EXCEEDING 100 FT, THE WIRE SIZE SHALL BE #10 & #8 FOR 175'.
4. HOMERUNS - INSTALL NO MORE THAN THREE PER RACEWAY (INCLUDING LIGHTING BRANCH CIRCUITS).
5. PROVIDE ALL ELECTRICAL RECEPTACLES INSTALLED WITH THE GROUND UP OPENING IN THE "UP" POSITION.
6. COORDINATE FURNITURE EXACT ROUGH-IN AND POWER/DATA NEEDS WITH FURNITURE SUBCONTRACTOR.
7. PAINT ALL EXPOSED RACEWAYS, HANGERS, BOXES, SUPPORTS AND ACCESSORIES IN INTERIOR AND EXTERIOR EXPOSED AREAS. COORDINATE PAINT TYPE, COLOR AND SCOPE OF WORK WITH ARCHITECT.
8. PROVIDE J-HOOKS TO SUPPORT THE FIRE ALARM, INTRUSION DETECTION, VOICE, INTERCOM AND DATA CABLING.
9. PROVIDE FIRE ALARM INTERLOCK FOR ALL DOOR ACCESS SYSTEMS INCLUDING WIRING.

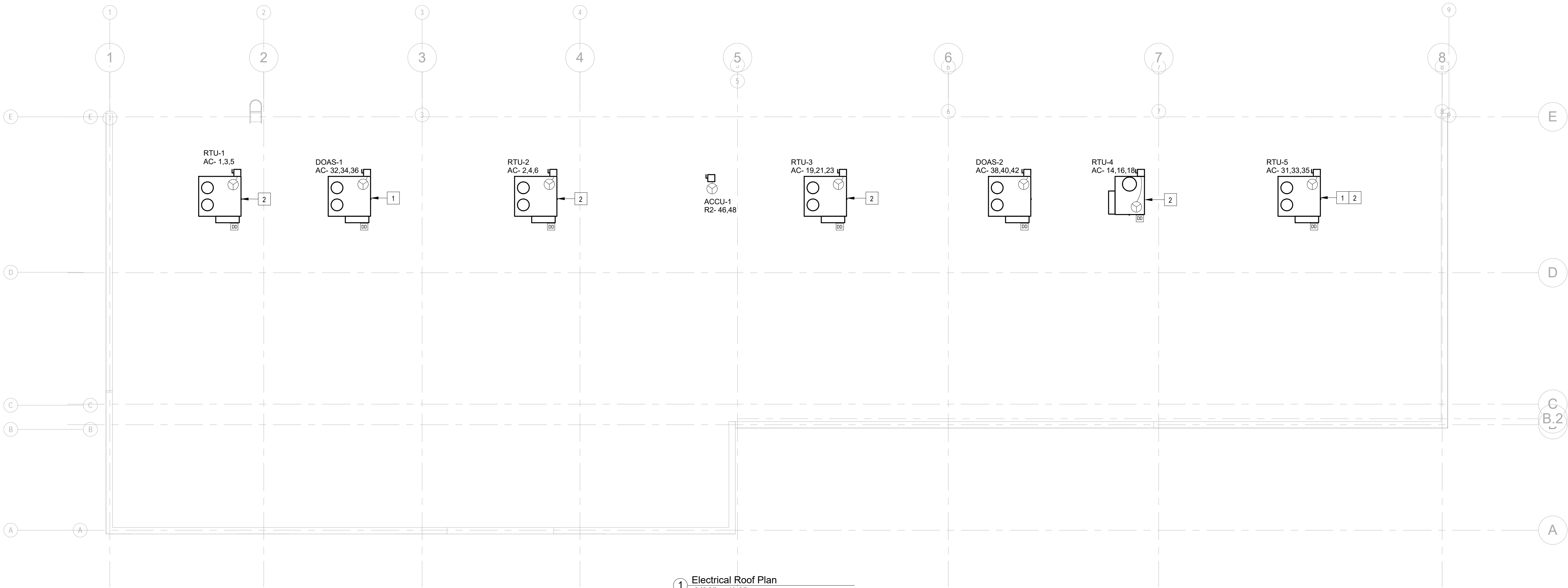
ELECTRICAL KEYED NOTES:

- 1 NO DUCTWORK OR PIPING TO BE ROUTED ABOVE PANELBOARDS. COORDINATE WITH OTHER TRADES - TYPICAL.
- 2 CONNECT CEILING PROJECTOR.
- 3 CONNECT REFRIGERATOR.
- 4 CONNECT COPY MACHINE.
- 5 CONNECT ELECTRIC DRINKING FOUNTAIN; BRANCH CIRCUIT: 1/2" - 2#12 & # 12G. ROUGH-IN AT 17-7/16" TO CENTER OF J-BOX - TYPICAL. COORDINATE WITH PLUMBING CONTRACTOR.
- 6 PROVIDE GROMMETS THROUGH COUNTERTOP TO ACCESS RECEPTACLES BELOW COUNTER INSIDE KNEE SPACE. CONCEAL RACEWAYS WITHING MILLWORK BACK TO WALL.
- 7 MOTORIZED SCREEN SWITCH - PROVIDED BY OWNER INSTALLED BY CONTRACTOR.
- 8 CONNECT WALL MOUNTED MOTORIZED PROJECTOR SCREEN AND ASSOCIATED SWITCH. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ANY ROUGH-IN.

KEYPLAN



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1 Electrical Roof Plan
3/32" = 1'-0"

GENERAL NOTES:

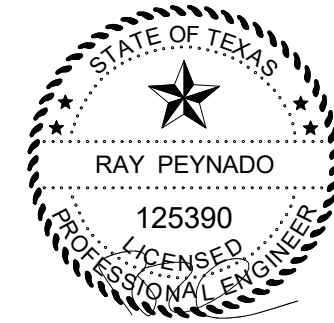
- 1. HOMERUNS - INSTALL NO MORE THAN THREE PER RACEWAY(INCLUDING LIGHTING BRANCH CIRCUITS).
- 2. PROVIDE ALL ELECTRICAL RECEPTACLES INSTALLED WITH THE GROUND OPENING IN THE "UP" POSITING.
- 3. PROVIDE FIRE STOPPING AT ALL FIRE WALL PENETRATIONS; PROVIDE EXPANSION PLATES & BONDING JUMPERS AT BUILDING EXPANSION JOINTS.
- 4. USE TAMPER RESISTANT RECEPTACLES THROUGHOUT.

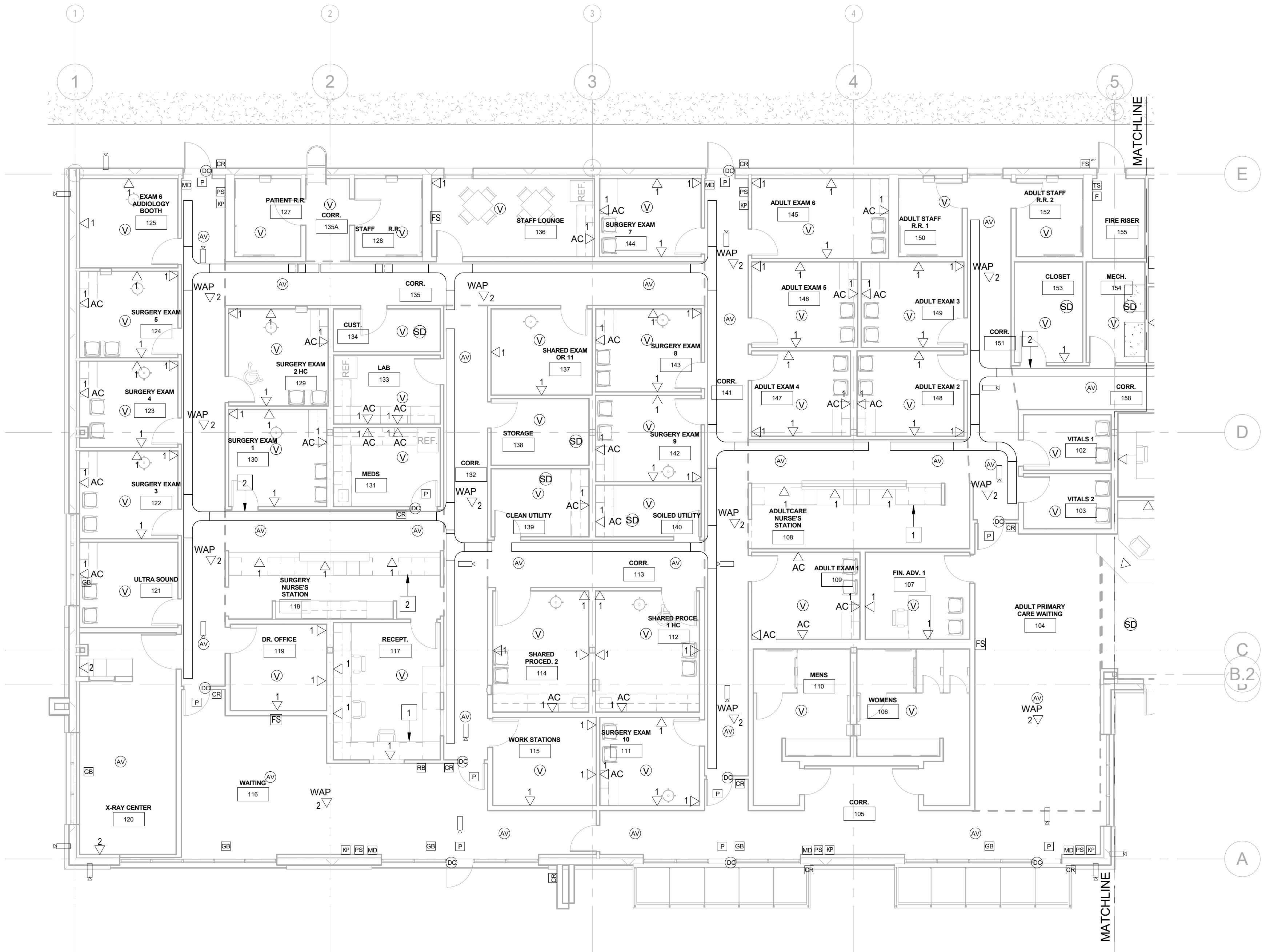
ELECTRICAL KEYED NOTES:

- 1 CONNECT ROOF TOP UNIT. ROUTE CONNECTION THROUGH ROOF CURB AND SECURE DISCONNECT TO EQUIPMENT. COORDINATE DISCONNECT LOCATION WITH HVAC CONTRACTOR TO ENSURE NOT TO OBSTRUCT ACCESSIBLE PANELS - TYPICAL.
- 2 CONNECT INTEGRAL GFCI RECEPTACLE TO NEAREST 120V NON-GFCI CIRCUIT.
- 3 PROVIDE WEATHERPROOF J-BOX ON ROOF AND 3/4" RACEWAY WITH PULLWIRE BACK TO THE CHEMCURB ROOF PENETRATION AND CONTINUE TO THE FCU LOCATION - TYPICAL.
- 4 PROVIDE ABOVE CEILING/BELOW ROOF - TYPICAL.



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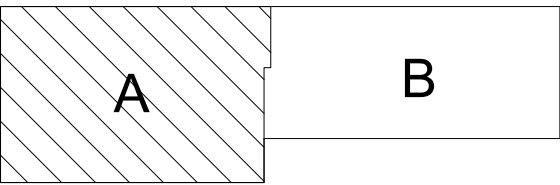


Electrical Special Equipment Floor Plan -
Area A
1/8" = 1'-0"

- GENERAL NOTES:**
- 1. PROVIDE J-HOOKS TO SUPPORT THE FIRE ALARM, INTRUSION DETECTION, VOICE, INTERCOM AND DATA CABLING.
 - 2. SPECIAL SYSTEMS (FIRE ALARM, INTRUSION, VOICE, DATA, INTERCOM, ETC.) BACK BOX AND RACEWAYS LOCATED IN EXPOSED CEILING AREAS SHALL TERMINATE AT NEAREST CONCEALED CEILING. EXPOSED CABLING IS ONLY ALLOWED IN AREAS WHERE CABLING CAN BE CONCEALED ABOVE CEILING ACCESSIBLE SPACE.
 - 3. PROVIDE FIRE STOPPING AT ALL FIRE WALL PENETRATIONS; PROVIDE EXPANSION PLATES AND BONDING JUMPERS AT BUILDING EXPANSION JOINTS.
 - 4. PROVIDE 1-2" RACEWAY (SLEEVE) 12" ABOVE CEILING AT ALL CLASSROOMS, RESTROOMS, OFFICES, ETC. DOORS THAT LEAD TO CORRIDORS (FLOOR TO CEILING WALLS) FOR SPECIAL SYTEMS WIRING.
 - 5. ELECTRICAL PLANS HAVE BEEN DESIGNED FOLLOWING THE REQUIREMENTS OF THE IBC 2015 AND IECC 2015. THE CONTRACTOR SHALL COMPLY WITH SUCH REQUIREMENTS.

- ELECTRICAL KEYED NOTES:**
- 1 PROVIDE GROMMETS THROUGH COUNTERTOP TO ACCESS RECEPTACLES BELOW.
 - 2 PROVIDE CABLE TRAY - SEE DETAIL AND SPECIFICATIONS.

KEYPLAN



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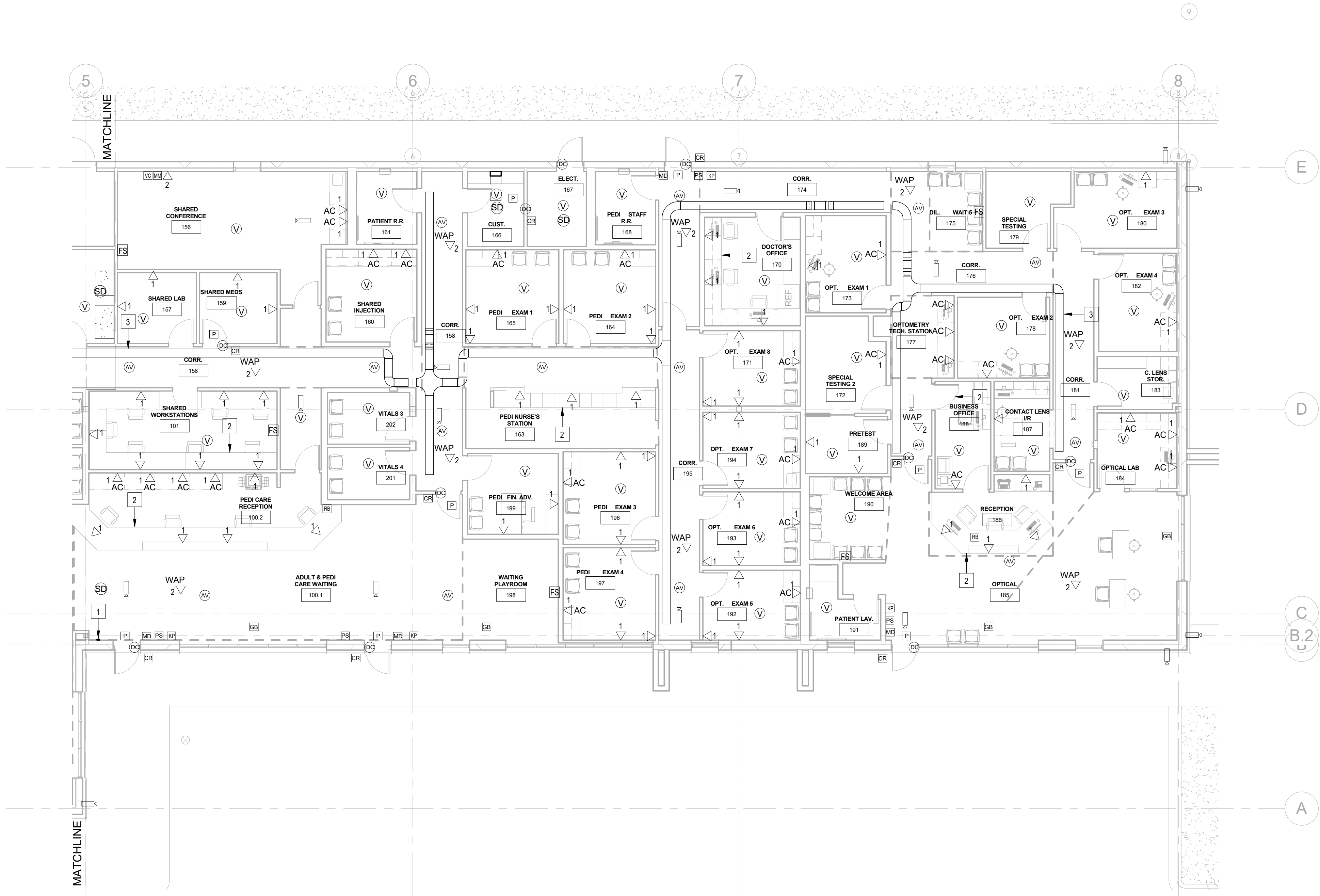


Project # 18v15
Owner
UTRGV - SCHOOL OF MEDICINE - JACKSON RD.
Enter address here

Issue Date 10/31/2018

Electrical Special
Equipment -
Area A

E5.01



Electrical Special Equipment Floor Plan -
Area B
1/8" = 1'-0"

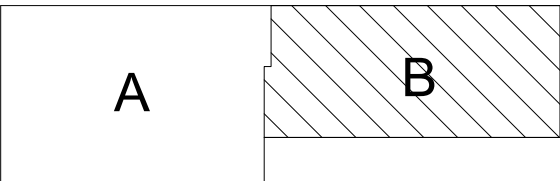
GENERAL NOTES:

1. PROVIDE J-HOOKS TO SUPPORT THE FIRE ALARM, INTRUSION DETECTION, VOICE, INTERCOM AND DATA CABLING.
2. SPECIAL SYSTEMS (FIRE ALARM, INTRUSION, VOICE, DATA, INTERCOM, ETC.) BACK BOX AND RACEWAYS LOCATED IN EXPOSED CEILING AREAS SHALL TERMINATE AT NEAREST CONCEALED CEILING. EXPOSED CABLING IS ONLY ALLOWED IN AREAS WHERE CABLING CAN BE CONCEALED ABOVE CEILING ACCESSIBLE SPACE.
3. PROVIDE FIRE STOPPING AT ALL FIRE WALL PENETRATIONS; PROVIDE EXPANSION PLATES AND BONDING JUMPERS AT BUILDING EXPANSION JOINTS.
4. PROVIDE 1-2" RACEWAY (SLEEVE) 12" ABOVE CEILING AT ALL CLASSROOMS, RESTROOMS, OFFICES, ETC. DOORS THAT LEAD TO CORRIDORS (FLOOR TO CEILING WALLS) FOR SPECIAL SYTEMS WIRING.
5. ELECTRICAL PLANS HAVE BEEN DESIGNED FOLLOWING THE REQUIREMENTS OF THE IBC 2015 AND IECC 2015. THE CONTRACTOR SHALL COMPLY WITH SUCH REQUIREMENTS.

ELECTRICAL KEYED NOTES:

- 1 PROVIDE FIRE ALARM REMOTE ANNUNCIATOR (FLUSH MOUNTED) FACING WAITING AREA.
- 2 PROVIDE GROMMETS THROUGH COUNTERTOP TO ACCESS RECEPTACLES BELOW.
- 3 PROVIDE CABLE TRAY - SEE DETAIL AND SPECIFICATIONS.

KEYPLAN



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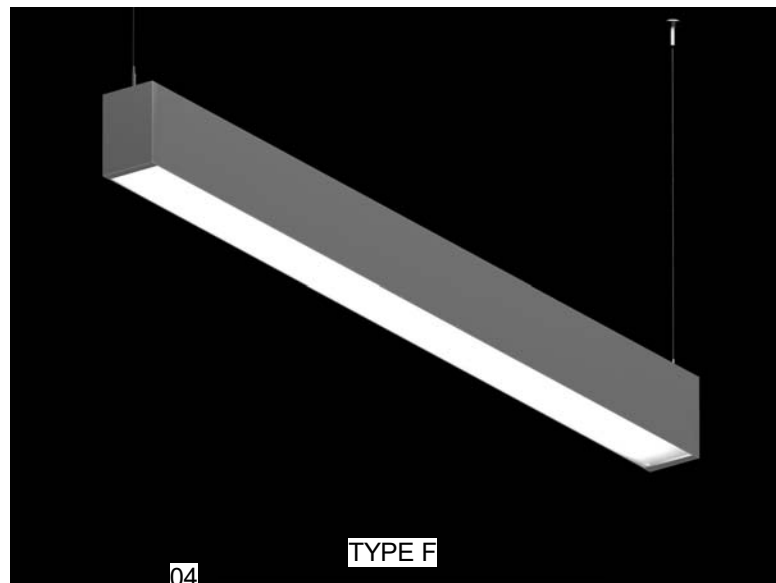
01 TYPE A & AE



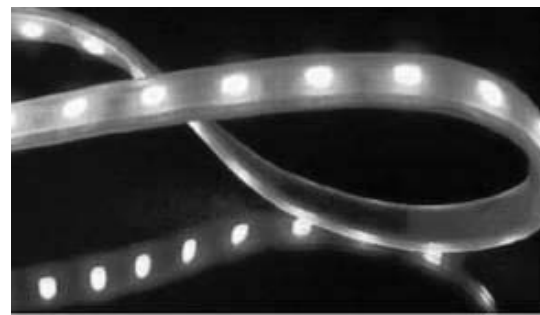
02 TYPE B & BE



03 TYPE C



04 TYPE F



05 TYPE G



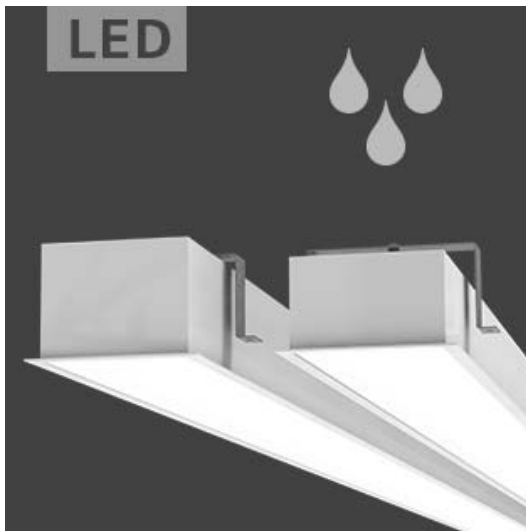
06 TYPE H



07 TYPE J



08 TYPE K



09 TYPE L



10 TYPE D



11 TYPE P1, P2



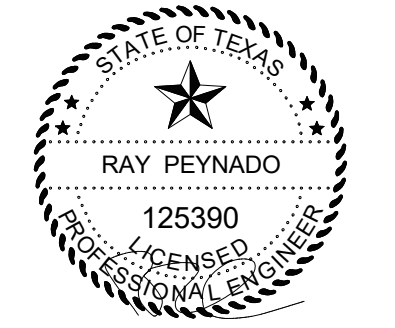
12 TYPE X1, X2

| Lighting Fixture Schedule | | | | | | | |
|---------------------------|------|------------------------|------------------|---|---------|------------|---|
| Type Mark | Lamp | Description | Manufacturer | Model | Wattage | Voltage | Comments |
| A | LED | 2'X2' LAY-IN TROFFER | LSI INDUSTRIES | PEC22 LED SS NW UE | 35 W | 120V 1P 2W | |
| AE | LED | 2'X2' LAY-IN TROFFER | LSI INDUSTRIES | PEC22 LED SS NW UE EM | 35 W | 120V 1P 2W | PROVIDE WITH AN EMERGENCY BATTERY PACK. |
| B | LED | 2'X4' LAY-IN TROFFER | LSI INDUSTRIES | PEC24 LED SS RPW NW UE | 44 W | 120V 1P 2W | |
| BE | LED | 2'X4' LAY-IN TROFFER | LSI INDUSTRIES | PEC24 LED SS RPW NW UE EM | 44 W | 120V 1P 2W | PROVIDE WITH AN EMERGENCY BATTERY PACK. |
| C | LED | 4" DOWNLIGHT | CONTECH LIGHTING | R4NC240K12D-C4322M-CLR | 60 W | 120V 1P 2W | |
| D | LED | 2'X4' LAY-IN TROFFER | LSI INDUSTRIES | PEC24 LED VHO RPW NW UE | 86 W | 120V 1P 2W | |
| F | LED | LINEAR INDIRECT/DIRECT | LUX ILLUMINAIRE | EOS3.0-P-DI-750-375-4-40-8-1-UNV-S1-W-HC-24 | 51 W | 120V 1P 2W | STANDARD COLOR FINISH TO BE SELECTED AT A LATER DATE. |
| G | LED | TAPE LIGHT | TPR ENTERPRISES | FL-SMD-CM-WW-NP-MT-X-T1 | 2 W | 120V 1P 2W | SCALE DRAWINGS FOR EXACT LENGHTS. |
| H | LED | TRACK LIGHT | CONTECH LIGHTING | CTL84X3-WW-4-D-B | 23 W | 120V 1P 2W | STANDARD COLOR FINISH TO BE SELECTED AT A LATER DATE. |
| J | LED | DECORATIVE PENDANT | BESA LIGHTING | 1JT-412480-LED-SN | 9 W | 120V 1P 2W | PROVIDE WITH A 0-10V DIMMING DRIVER |
| K | LED | WALL PACK | RAYON LIGHTING | T630LRDB-30-UNI12-40-T3-BZ-EM | 30 W | 120V 1P 2W | STANDARD COLOR FINISH TO BE SELECTED AT A LATER DATE. PROVIDE WITH AN EMERGENCY BATTERY PACK. |
| L | LED | LINEAR LIGHT | FORUM, INC. | AQR-F-65LED40-WOLx4-UN-WH | 38 W | 120V 1P 2W | |
| P1 L1-20,22 | LED | AREA LIGHT | LSI INDUSTRIES | SLM LED 18L SIL2 UNV DIM 40 80CRI BRZ BKA ASF CLR | 148 W | 208V 2P 2W | STANDARD COLOR FINISH TO BE SELECTED AT A LATER DATE. |
| P2 L1-20,22 | LED | AREA LIGHT | LSI INDUSTRIES | SLM LED 18L SIL UNV3 DIM 40 80CRI BRZ BKA ASF CLR | 148 W | 208V 2P 2W | STANDARD COLOR FINISH TO BE SELECTED AT A LATER DATE. |
| X1 | LED | SINGLE SIDED EXIT SIGN | LSI INDUSTRIES | EX R U WB WH SD2 | 3 W | 120V 1P 2W | |
| X2 | LED | DOUBLE SIDED EXIT SIGN | LSI INDUSTRIES | EX R U WB WH SD2 | 3 W | 120V 1P 2W | |

GENERAL NOTES:
1. OTHER MANUFACTURERS THAN THOSE LISTED ON THIS SCHEDULE ARE REQUIRED TO OBTAIN PRIOR APPROVAL BY SUBMITTING CUT SHEETS OF THEIR SUBSTITUTIONS AT LEAST (10) DAYS PRIOR TO BID. CUT SHEETS SHALL INDICATE/HIGHLIGHT PHOTOMETRIC CURVES, EFFICIENCY AND CONSTRUCTION FOR DIRECT COMPARISON WITH SPECIFIED FIXTURES AND BALLAST.
2. EXTRA MATERIALS: SEE SPECIFICATIONS.
3. PROVIDE EMERGENCY BATTERY PACKS COMPLETE FACTORY INSTALLED WITH NI-CAD BATTERY, CHARGER INDICATING LIGHT, ELECTRONIC CIRCUITRY, 90 MINUTES DURATION AND FULL FIVE YEAR WARRANTY.
4. FURNISH ALL 2' X 4' LAY-IN LIGHT FIXTURES WITH INTEGRAL CEILING CLIPS.



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NOTES ON WIRING

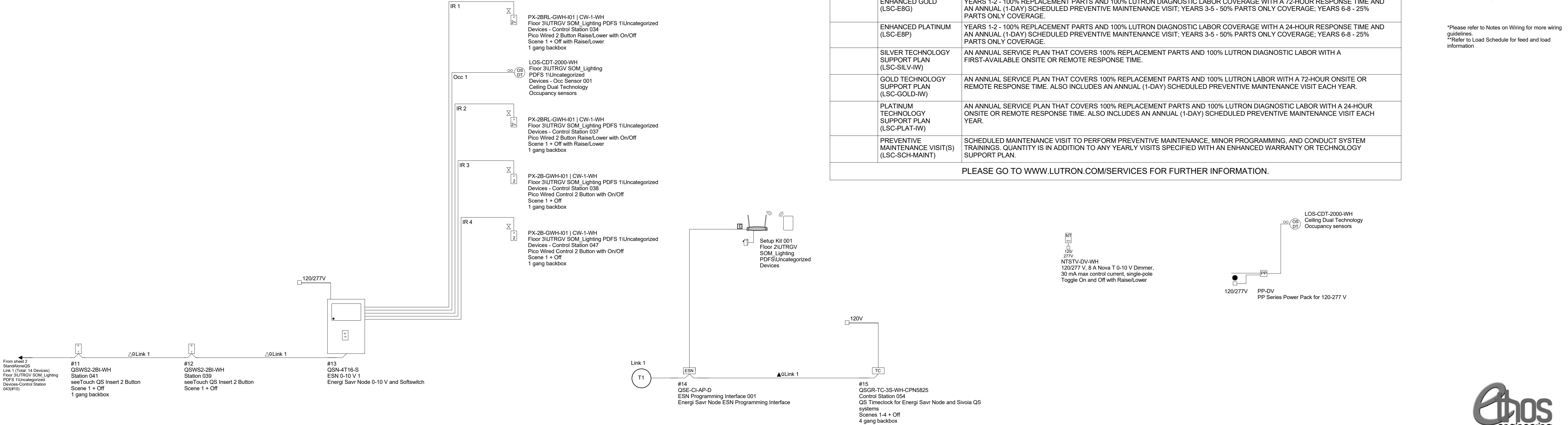
QS CONTROL LINK

THE QS CONTROL LINK HAS A FREE WIRING TOPOLOGY (DAISY CHAIN, T-TAP, ETC). THE SYSTEM WIRING ILLUSTRATED BY THIS DRAWING HAS BEEN LAID OUT TO ENSURE APPROPRIATE POWER TO EACH DEVICE. IF FOR ANY REASON THE SYSTEM IS TO BE WIRED DIFFERENTLY THAN WHAT IS SHOWN, PLEASE CONFIRM ALL DEVICE POWER REQUIREMENTS ARE MET (PLEASE REFER TO "QS LINK POWER REQUIREMENTS" FOR INDIVIDUAL DEVICE POWER REQUIREMENTS).

FOR QS CONTROL WIRE LENGTHS TOTALING LESS THAN 500 FT (153 M), USE LUTRON CABLE GRX-CBL-346S (4 CONDUCTOR NON-PLENUM), OR GRX-PCBL-346S (4 CONDUCTOR PLENUM). OTHERWISE USE 2 #18 AWG (1.0 SQ MM) + 2 #22 AWG (0.5 SQ MM) TWISTED AND SHIELDED OR EQUIVALENT (BELDEN #9461). FOR QS CONTROL WIRE LENGTHS TOTALING UP TO 2,000 FT, USE GRX-CBL-46L (4 CONDUCTOR NON-PLENUM) OR GRX-PCBL-46L (4 CONDUCTOR PLENUM). TOTAL QS CONTROL WIRE LENGTH MUST NOT EXCEED 2,000 FT (600 M).

| QS LINK POWER REQUIREMENTS | | |
|---|--------------------------------------|------|
| DEVICE | | PDUS |
| QS DEVICES THAT SUPPLY PDU | | |
| DIN RAIL POWER SUPPLY | | +75 |
| MYROOM DIN RAIL POWER SUPPLY | | +30 |
| QS PLUG-IN POWER SUPPLY, QS J-BOX POWER SUPPLY | | +8 |
| ENERGI SAVR NODE WITH ECOSYSTEM, ENERGI SAVR NODE WITH DALI, ENERGI SAVR NODE WITH T-SERIES TUNABLE-WHITE | | +30 |
| ENERGI SAVR NODE FOR 0-10 V, ENERGI SAVR NODE WITH SOFTSWITCH, ENERGI SAVR NODE FOR 0-10 V (DIN RAIL), ENERGI SAVR NODE WITH SOFTSWITCH (DIN RAIL) | | +14 |
| ENERGI SAVR NODE PHASE ADAPTIVE (DIN RAIL), 1 A MYROOM DIN RAIL POWER MODULE SWITCHING, 1 A MYROOM DIN RAIL POWER MODULE PHASE ADAPTIVE | | +4 |
| ENERGI SAVR NODE WITH DALI (DIN RAIL), ENERGI SAVR NODE WITH ECOSYSTEM (DIN RAIL) | | +3 |
| QS MOTOR GROUP CONTROLLER (DIN RAIL), HOMEWORKS QS DIN RAIL POWER MODULES | | 0 |
| GRAFIK EYE QS (ALL MODELS EXCEPT GRAFIK EYE QS DALI WITH KNX), QS TIMECLOCK | | +3 |
| QP2 QUANTUM LIGHTING HUB | LINK A : 0 LINKS B,C,D : +33 EACH | |
| QP3 QUANTUM LIGHTING HUB | LINKS A,B : +33 EACH | |
| QS DEVICES THAT CONSUME PDU | | |
| QS WALLSTATION (SEETOUGH, ARCHITRAVE, SIGNATURE SERIES, QS PICO, KEYSWITCH, SINGLE COLUMN PALLADIOM), QS SLIDER, GRAFIK T SLIDER, QS INFRARED (IR) EYE, WALLBOX INPUT CLOSURE INTERFACE | | -1 |
| QS NETWORK INTERFACE, QS DMX INTERFACE, ENERGI SAVR NODE PROGRAMMING INTERFACE, QS WALLSTATION (DOUBLE COLUMN PALLADIOM) | | -2 |
| QS SENSOR MODULE (QSM), NOT INCLUDING ATTACHED WIRED SENSORS (SEE SECTION BELOW FOR MORE INFORMATION), QS CONTACT CLOSURE INTERFACE, PALLADIOM ROOM THERMOSTAT | | -3 |
| GUESTROOM CONTROL UNIT | | -8 |
| SENSORS & DEVICES THAT CONSUME PDUS WHEN WIRED TO A QSM | | |
| LUTRON DAYLIGHT SENSOR, LUTRON INFRARED (IR) RECEIVER, PICO WIRED CONTROLLER | | -0.5 |
| ECOSYSTEM WALLSTATION | | -1 |
| LOS C SERIES OCCUPANCY SENSOR, HIGH BAY OCCUPANCY SENSOR | | -2 |

| LUTRON SERVICES | | |
|---|---|---|
| QTY | SERVICE TITLE (MODEL NUMBER) | SERVICE DESCRIPTION |
| THE QUANTITY OF SERVICES BELOW ARE TO BE INCLUDED AS PART OF THIS PROJECT'S SCOPE OF WORK AND SPECIFIED INTO THE WRITTEN SPEC DOCUMENTS | | |
| PRE-STARTUP SERVICES | | |
| | ONSITE PRE-WIRE VISIT (LSC-PREWIRE) | AN ONSITE VISIT WITH THE ELECTRICAL CONTRACTOR TO DISCUSS LOGISTICAL CONSTRUCTION CONSIDERATIONS INCLUDING THE WIRING AND MOUNTING OF SYSTEM DEVICES, THE CONSTRUCTION SCHEDULE, AND LUTRON DOCUMENTATION. QUANTITY DICTATES THE NUMBER OF VISITS PURCHASED. |
| | SYSTEM & NETWORK INTEGRATION CONSULTATION (LSC-INT-VISIT) | A CONSULTATIVE VISIT WITH THIRD PARTY INTEGRATORS TO CONFIRM THE SPECIFIED SEQUENCE OF OPERATION AND DISCUSS INTEGRATION PROCEDURES NEEDED IN ORDER TO INTEGRATE WITH THE LUTRON EQUIPMENT. THIS MAY INCLUDE ANY OF THE FOLLOWING THIRD PARTY SYSTEMS: BMS, BAS, IT, NON-LUTRON SHADES, BACNET, AV, OR ENERGY DASHBOARDS. |
| | SENSOR LAYOUT & TUNING (LSC-SENS-LT) | LUTRON WILL TAKE RESPONSIBILITY FOR LUTRON-PROVIDED SENSOR PLACEMENT AND PERFORMANCE BY CREATING SENSOR LAYOUTS AND COORDINATING SENSOR PLACEMENT BEFORE AND AFTER INSTALLATION. ONCE THE BUILDING IS OCCUPIED, LUTRON WILL RETURN UP TO TWO TIMES TO PERFORM SENSOR FINE-TUNING. |
| STARTUP SUPPORT SERVICES (THESE SERVICES ARE ADDITIONAL TO YOUR SPECIFIED STARTUP BASED ON YOUR REQUIREMENTS) | | |
| | AFTER HOURS STARTUP (LSC-AH-SU) | STARTUP PROVIDED BETWEEN THE HOURS OF 5:00PM – 7:00AM, MONDAY - FRIDAY. THIS SCOPE OF WORK DOES NOT INCLUDE HOLIDAY OR WEEKEND WORK. ADDITIONAL FEES MAY APPLY FOR WORK TO BE COMPLETED ON WEEKENDS (FRIDAY 5:00PM – MONDAY 7:00AM). |
| | ONSITE SCENE & LEVEL TUNING (LSC-AF-VISIT) | AN ONSITE VISIT WITH THE SPECIFIER OR CUSTOMER REPRESENTATIVE TO REVIEW THE DESIGN INTENT, FINE-TUNE THE SCENE LEVEL PROGRAMMING, AND MAKE ADJUSTMENTS TO TIMECLOCKS. |
| | ONSITE PERFORMANCE-VERIFICATION WALKTHROUGH (LSC-WALK) | AN ONSITE WALKTHROUGH WITH FACILITY REPRESENTATIVES OR PROJECT COMMISSIONING AGENTS TO DEMONSTRATE THAT THE SYSTEM FUNCTIONALITY MEETS THE DESIGN INTENT. THIS MAY INCLUDE ANY OF THE FOLLOWING ONSITE ACTIVITIES – CONSULTATION/TRAINING DEMOS, FUNCTIONAL TESTING ASSISTANCE, OR INVENTORY OF LUTRON EQUIPMENT. |
| | SYSTEM PERFORMANCE-VERIFICATION DOCUMENTATION (LSC-SPV-DOC) | COMPLETION OF DOCUMENTATION WHICH PROVIDES PERFORMANCE VERIFICATION CERTIFYING THE LUTRON EQUIPMENT HAS BEEN THOROUGHLY TESTED. IT SUPPORTS THE DOCUMENTATION REQUIREMENTS OF MANY BUILDING STANDARDS. |
| | TITLE 24 ACCEPTANCE TEST VISIT (LSC-SPV-DOC-T24) | ACCEPTANCE TESTING BY A LUTRON CERTIFIED LIGHTING CONTROL ACCEPTANCE TEST TECHNICIAN (CLCATT) TO FULFILL THE REQUIRED TITLE 24 INTERIOR LIGHTING CONTROL TESTS. |
| POST-STARTUP SERVICES | | |
| | CUSTOMER-SITE SOLUTION TRAINING (LSC-TRAINING-SP) | A VISIT TO TEACH SYSTEM USERS HOW TO OPERATE AND MAINTAIN THE LIGHTING CONTROL SYSTEM. |
| | SYSTEM OPTIMIZATION (LSC-SYSOPT-SP) | AN ONSITE CONSULTATIVE VISIT TO IDENTIFY AND IMPLEMENT LIGHTING CONTROL ADJUSTMENTS TO SAVE ADDITIONAL ENERGY AND CREATE A MORE PRODUCTIVE WORK ENVIRONMENT. |
| MAINTENANCE & SUPPORT SERVICES | | |
| 1 | COMMERCIAL SYSTEMS 2-YEAR LIMITED WARRANTY (LSC-B2) | A 2-YEAR SYSTEM WARRANTY PROVIDING 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR COVERAGE WITH A FIRST-AVAILABLE RESPONSE TIME. |
| | ENHANCED SILVER (LSC-E8S) | YEARS 1-2 - 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR COVERAGE WITH A FIRST-AVAILABLE RESPONSE TIME; YEARS 3-5 - 50% PARTS ONLY COVERAGE; YEARS 6-8 - 25% PARTS ONLY COVERAGE. |
| | ENHANCED GOLD (LSC-E8G) | YEARS 1-2 - 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR COVERAGE WITH A 72-HOUR RESPONSE TIME AND AN ANNUAL (1-DAY) SCHEDULED PREVENTIVE MAINTENANCE VISIT; YEARS 3-5 - 50% PARTS ONLY COVERAGE; YEARS 6-8 - 25% PARTS ONLY COVERAGE. |
| | ENHANCED PLATINUM (LSC-E8P) | YEARS 1-2 - 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR COVERAGE WITH A 24-HOUR RESPONSE TIME AND AN ANNUAL (1-DAY) SCHEDULED PREVENTIVE MAINTENANCE VISIT; YEARS 3-5 - 50% PARTS ONLY COVERAGE; YEARS 6-8 - 25% PARTS ONLY COVERAGE. |
| | SILVER TECHNOLOGY SUPPORT PLAN (LSC-SILV-IW) | AN ANNUAL SERVICE PLAN THAT COVERS 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR WITH A FIRST-AVAILABLE ONSITE OR REMOTE RESPONSE TIME. |
| | GOLD TECHNOLOGY SUPPORT PLAN (LSC-GOLD-IW) | AN ANNUAL SERVICE PLAN THAT COVERS 100% REPLACEMENT PARTS AND 100% LUTRON LABOR WITH A 72-HOUR ONSITE OR REMOTE RESPONSE TIME. ALSO INCLUDES AN ANNUAL (1-DAY) SCHEDULED PREVENTIVE MAINTENANCE VISIT EACH YEAR. |
| | PLATINUM TECHNOLOGY SUPPORT PLAN (LSC-PLAT-IW) | AN ANNUAL SERVICE PLAN THAT COVERS 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR WITH A 24-HOUR ONSITE OR REMOTE RESPONSE TIME. ALSO INCLUDES AN ANNUAL (1-DAY) SCHEDULED PREVENTIVE MAINTENANCE VISIT EACH YEAR. |
| | PREVENTIVE MAINTENANCE VISIT(S) (LSC-SCH-MAINT) | SCHEDULED MAINTENANCE VISIT TO PERFORM PREVENTIVE MAINTENANCE, MINOR PROGRAMMING, AND CONDUCT SYSTEM TRAININGS. QUANTITY IS IN ADDITION TO ANY YEARLY VISITS SPECIFIED WITH AN ENHANCED WARRANTY OR TECHNOLOGY SUPPORT PLAN. |
| PLEASE GO TO WWW.LUTRON.COM/SERVICES FOR FURTHER INFORMATION. | | |



One-Line

Wire Legend

△9 QS Control Link (Connect wires 1, 2, 3 and 4)*

▲9 QS Control Link (Connect wires 1, 3 and 4. Do not connect wire 2)*

▽9 Panel Control Link (Connect wires 1, 2, 3, 4 and 5)*

▼9 Panel Control Link (Connect wires 1, 2, 3 and 4. Do not connect wire #5)*

▷9 Panel Control Link (Connect wires 1, 3, 4 and 5. Do not connect wire #2)*

<5 QS Sivoia Shade Control Link*

▲7 Belden Cable 1387L4(Or Equivalent)

□ Normal Input Power 2 #12 AWG (4 sq mm) + ground

■ Normal-Emergency Input Power 2 #12 AWG (4 sq mm) + ground

③ 3 Phase 4 wire Input Power, 4 #12 AWG (4 sq mm) + ground

● 2 #12 AWG (4 sq mm) + ground

○ 3 #12 AWG (4 sq mm) + ground

◆ 0-10 V Signal: 2#18AWG (1.0 sq mm)

●● 2#18 AWG (1.0 sq mm)

○○ 3#18 AWG (1.0 sq mm)

◇ EcoSystem Bus/Loop*

◆ DALI Loop

◇ T-Series Tunable-White Loop

✂ Lutron Sensor Cable C-CBL-522S or use 4#22 AWG (1.0 sq mm)

✂ Lutron Sensor Cable C-CBL-522S or use 3#22 AWG (1.0 sq mm)

▣ DMX Cable. Use Lutron GRX-CBL-DMX-250/GRX-CBL-DMX-500 or Belden #9729 (Non-plenum) or Belden #89729 (Plenum) or Dura Flex 22/4 WA Cable.

▣ Ethernet cable. CAT5E or better cable for Lutron Network terminated with RJ45 connectors (not provided by Lutron). 328 ft (100 m) maximum run.

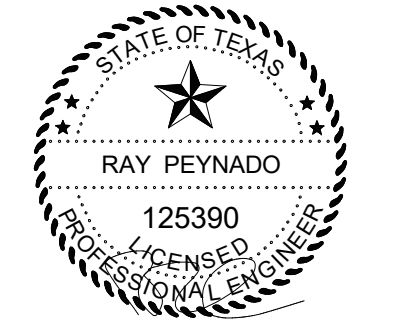
▣ Fiber optic cable for Lutron Network terminated with appropriate fiber optic connectors (not provided by Lutron). Requires dedicated fiber optic link (single-mode or multi-mode)

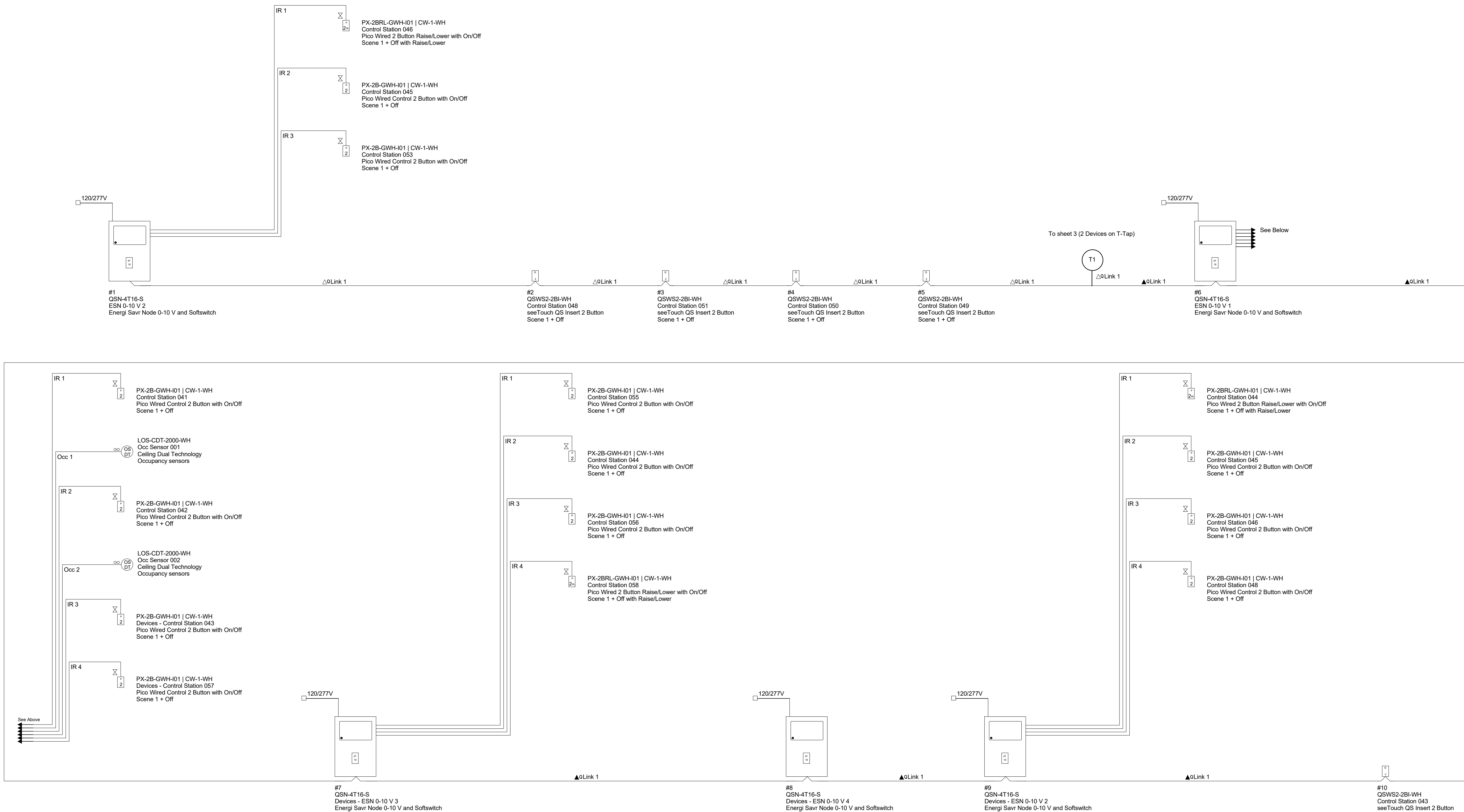
RF Connection
Wired Connection

*Please refer to Notes on Wiring for more wiring guidelines.
*Refer to Load Schedule for feed and load information



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One-Line

Wire Legend

△Q QS Control Link (Connect wires 1, 2, 3 and 4)*

▲Q QS Control Link (Connect wires 1, 3 and 4. Do not connect wire 2)*

▽P Panel Control Link (Connect wires 1, 2, 3, 4 and 5)

▼P Panel Control Link (Connect wires 1, 2, 3 and 4. Do not connect wire #5)*

▷P Panel Control Link (Connect wires 1, 3, 4 and 5. Do not connect wire #2)*

<S QS Sivoia Shade Control Link*

▲T Belden Cable 1387LA(Or Equivalent)

□ Normal Input Power 2 #12 AWG (4 sq mm) + ground

■ Normal-Emergency Input Power 2 #12 AWG (4 sq mm) + ground

③ 3 Phase 4 wire Input Power, 4 #12 AWG (4 sq mm) + ground

● 2 #12 AWG (4 sq mm) + ground

○ 3 #12 AWG (4 sq mm) + ground

◆ 0-10 V Signal: 2#18AWG (1.0 sq mm)

➤ 2#18 AWG (1.0 sq mm)

∞ 3#18 AWG (1.0 sq mm)

◇ EcoSystem Bus/Loop*

◇ DALI Loop

◇ T-Series Tunable-White Loop

✂ Lutron Sensor Cable C-CBL-522S or use 4#22 AWG (1.0 sq mm)

✂ Lutron Sensor Cable C-CBL-522S or use 3#22 AWG (1.0 sq mm)

■ DMX Cable. Use Lutron GRX-CBL-DMX-250/GRX-CBL-DMX-500 or Belden #9729 (Non-plenum) or Belden #88729 (Plenum) or Dura Flex 224 WA Cable.

■ Ethernet cable. CAT5E or better cable for Lutron Network terminated with RJ45 connectors (not provided by Lutron). 328 ft (100 m) maximum run.

■ Fiber optic cable for Lutron Network terminated with appropriate fiber optic connectors (not provided by Lutron). Requires dedicated fiber optic link (single-mode or multi-mode)

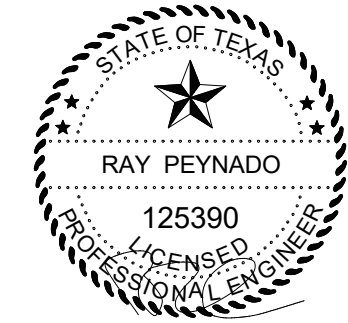
— RF Connection

— Wired Connection

*Please refer to Notes on Wiring for more wiring guidelines.
**Refer to Load Schedule for feed and load information



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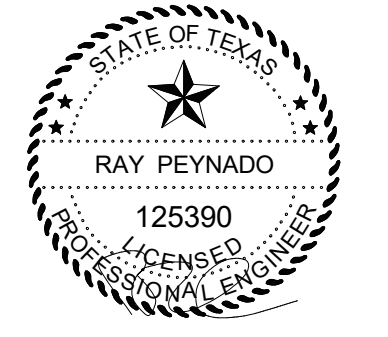


| EXHAUST FAN CONNECTION SCHEDULE | | | | | |
|---------------------------------|-----------|-----|-------------|---|--------------------|
| DESIGNATION | HP/WATTS | FLA | VOLTAGE | CONNECTION FOR EACH | BRANCH CIRCUIT |
| EF-1 | 128 WATTS | 1.2 | 120V/1PHASE | CONNECT AT CEILING. INTERLOCKING BY HVAC CONTROLS CONTRACTOR. | 1/2" - 2#12 & #12G |
| EF-2 | 128 WATTS | 1.2 | 120V/1PHASE | CONNECT AT CEILING. INTERLOCKING BY HVAC CONTROLS CONTRACTOR. | 1/2" - 2#12 & #12G |
| EF-3 | 128 WATTS | 1.2 | 120V/1PHASE | CONNECT AT CEILING. INTERLOCKING BY HVAC CONTROLS CONTRACTOR. | 1/2" - 2#12 & #12G |
| EF-4 | 128 WATTS | 1.2 | 120V/1PHASE | CONNECT AT CEILING. INTERLOCKING BY HVAC CONTROLS CONTRACTOR. | 1/2" - 2#12 & #12G |
| EF-5 | 350 WATTS | 3.5 | 120V/1PHASE | CONNECT AT CEILING. INTERLOCKING BY HVAC CONTROLS CONTRACTOR. | 1/2" - 2#12 & #12G |
| EF-6 | 350 WATTS | 3.5 | 120V/1PHASE | CONNECT AT CEILING. INTERLOCKING BY HVAC CONTROLS CONTRACTOR. | 1/2" - 2#12 & #12G |
| EF-7 | 128 WATTS | 1.2 | 120V/1PHASE | CONNECT AT CEILING. INTERLOCKING BY HVAC CONTROLS CONTRACTOR. | 1/2" - 2#12 & #12G |
| EF-8 | 128 WATTS | 1.2 | 120V/1PHASE | CONNECT AT CEILING. INTERLOCKING BY HVAC CONTROLS CONTRACTOR. | 1/2" - 2#12 & #12G |
| EF-9 | 128 WATTS | 1.2 | 120V/1PHASE | CONNECT AT CEILING. INTERLOCKING BY HVAC CONTROLS CONTRACTOR. | 1/2" - 2#12 & #12G |
| EF-10 | 135 WATTS | 1.3 | 120V/1PHASE | CONNECT AT CEILING. INTERLOCKING BY HVAC CONTROLS CONTRACTOR. | 1/2" - 2#12 & #12G |
| EF-11 | 135 WATTS | 1.3 | 120V/PHASE | CONNECT AT CEILING. INTERLOCKING BY HVAC CONTROLS CONTRACTOR. | 1/2" - 2#12 & #12G |
| EF-12 | 135 WATTS | 1.3 | 120V/1PHASE | CONNECT AT CEILING. INTERLOCKING BY HVAC CONTROLS CONTRACTOR. | 1/2" - 2#12 & #12G |
| EF-13 | 135 WATTS | 1.3 | 120V/1PHASE | CONNECT AT CEILING. INTERLOCKING BY HVAC CONTROLS CONTRACTOR. | 1/2" - 2#12 & #12G |
| EF-14 | 128 WATTS | 1.2 | 120V/1PHASE | CONNECT AT CEILING. INTERLOCKING BY HVAC CONTROLS CONTRACTOR. | 1/2" - 2#12 & #12G |
| EF-15 | 128 WATTS | 1.2 | 120V/1PHASE | CONNECT AT CEILING. INTERLOCKING BY HVAC CONTROLS CONTRACTOR. | 1/2" - 2#12 & #12G |
| EF-16 | 128 WATTS | 1.2 | 120V/1PHASE | CONNECT AT CEILING. INTERLOCKING BY HVAC CONTROLS CONTRACTOR. | 1/2" - 2#12 & #12G |
| EF-17 | 128 WATTS | 1.2 | 120V/1PHASE | CONNECT AT CEILING. INTERLOCKING BY HVAC CONTROLS CONTRACTOR. | 1/2" - 2#12 & #12G |

| EQUIPMENT CONNECTION SCHEDULE | | | | | | | |
|---|---------|------|------|------|-------------|-----------------------------------|--------------------|
| DESIGN | HP/KW | FLA | MCA | MOCP | VOLTAGE | DISCONNECT | BRANCH CIRCUIT |
| RTU-1 | - | 49.4 | 49.4 | 60 | 208V/3PHASE | 60A, 3PNF, 240V, NEMA 3R | 3/4" - 3#6 & #10G |
| RTU-2 | - | 41.4 | 36.3 | 45 | 208V/3PHASE | 60A, 3PNF, 240V, NEMA 3R | 3/4" - 3#8 & #10G |
| RTU-3 | - | 49.4 | 44.7 | 60 | 208V/3PHASE | 60A, 3PNF, 240V, NEMA 3R | 3/4" - 3#6 & #10G |
| RTU-4 | - | 27.1 | 27.1 | 35 | 208V/3PHASE | 60A, 3PNF, 240V, NEMA 3R | 3/4" - 3#10 & #10G |
| RTU-5 | - | 36.3 | 36.3 | 45 | 208V/3PHASE | 60A, 3PNF, 240V, NEMA 3R | 3/4" - 3#8 & #10G |
| VAV1-1,VAV1-2,VAV1-3,VAV1-4 | 14 KW | 38.9 | - | 50 | 208V/3PHASE | 30A, 3PNF, 240V, S/N, NEMA 1 EACH | 3/4" - 4#8 & #10G |
| VAV-1-5,VAV-1-6,VAV-1-7,VAV-1-8 | 15.5 KW | 43.0 | - | 60 | 208V/3PHASE | 30A, 3PNF, 240V, S/N, NEMA 1 EACH | 3/4" - 4#6 & #10G |
| VAV-2-1,VAV-2-2,VAV-2-3,VAV-2-4,VAV-2-4,VAV-2-5 | 20 KW | 55.5 | - | 70 | 208V/3PHASE | 30A, 3PNF, 240V, S/N, NEMA 1 EACH | 1.25" - 4#4 & #8G |
| VAV-3-1,VAV-3-2,VAV-3-3,VAV-3-4 | 23 KW | 63.8 | - | 80 | 208V/3PHASE | 30A, 3PNF, 240V, S/N, NEMA 1 EACH | 1.25" - 4#4 & #8G |
| VAV-4-1,VAV-4-2,VAV-4-3 | 13 KW | 36.1 | - | 50 | 208V/3PHASE | 30A, 3PNF, 240V, S/N, NEMA 1 EACH | 3/4" - 4#8 & #10G |
| VAV-5-1,VAV-5-2,VAV-5-3,VAV-5-4,VAV-5-5 | 18 KW | 49.9 | - | 70 | 208V/3PHASE | 30A, 3PNF, 240V, S/N, NEMA 1 EACH | 1.25" - 4#4 & #8G |
| DOAS-1 | - | - | 68.8 | 90 | 208V/3PHASE | 100A, 3PNF, 240V, NEMA 3R | 1.25" - 3#1 & #8G |
| DOAS-2 | - | - | 68.8 | 90 | 208V/3PHASE | 100A, 3PNF, 240V, NEMA 3R | 1.25" - 3#1 & #8G |
| EHW-1 | 12 KW | 33.3 | - | 45 | 208V/3PHASE | 100A, 3PNF, 240V, NEMA 3R | 3/4" - 3#8 & #10G |
| COMP-1 | 3 HP | 10.6 | 13.2 | 30 | 208V/3PHASE | 30A, 3PNF, 240V, NEMA 1 | 3/4" - 3#10 & #10G |
| VAC-1 | 3 HP | 10.6 | 13.2 | 30 | 208V/3PHASE | 30A, 3PNF, 240V, NEMA 1 | 3/4" - 3#10 & #10G |
| WAC-1 | - | - | - | - | 208V/1PHASE | 30A, 2PNF, 240V, NEMA 1 | 1/2" - 2#12 & #12G |
| ACCU-1 | - | - | 15 | 20 | 208V/1PHASE | 30A, 2PNF, 240V, NEMA 3R | 1/2" - 2#12 & #12G |
| CP-1 | 1/12 HP | - | - | 20 | 120V/1PHASE | (1) THERMAL SWITCH | 1/2" - 2#12 & #12G |
| (1) EATON MANUAL STARTER "MS" SERIES. | | | | | | | |
| GENERAL NOTE: LOCATE EQUIPMENT MEANS OF DISCONNECT WITHIN EQUIPMENT SIGHT. DO NOT INSTALL BELOW DUCTWORK OR BELOW PLUMBING LINES. | | | | | | | |



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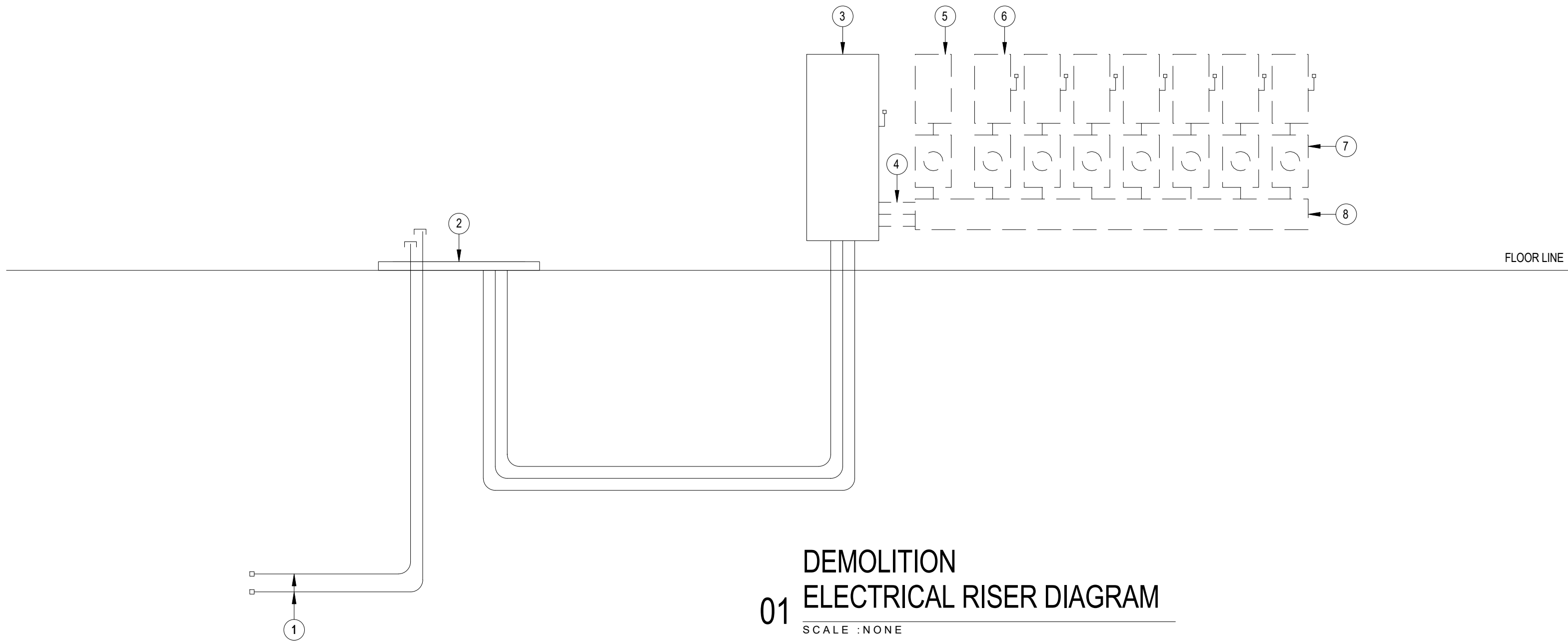


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Electrical
Connection
Schedules

E6.04



01 DEMOLITION ELECTRICAL RISER DIAGRAM
SCALE : NONE

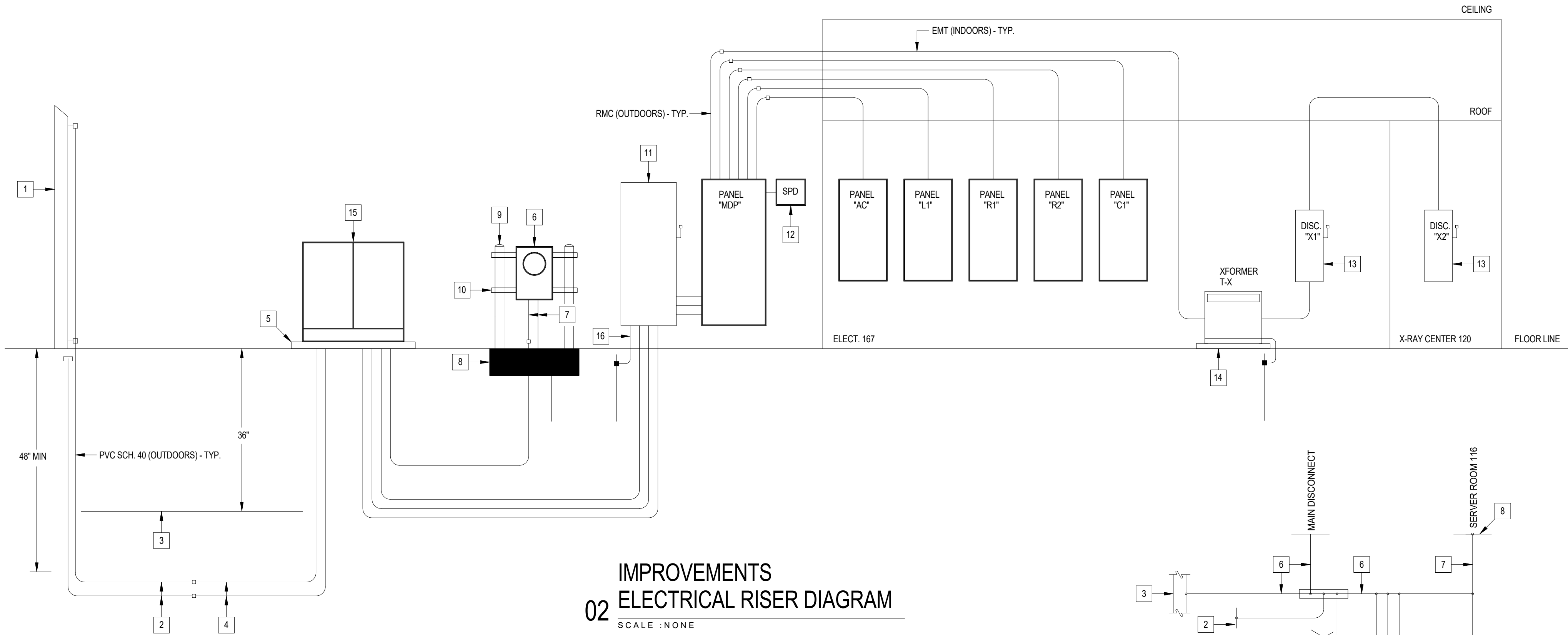
TRANSFORMER SCHEDULE:

| DESIGN | KVA | PV | SV | DEGREE RISE | CONNECTION | FREQ HZ | SERVES PANELS | CAT. NO. | PRIMARY FEEDER (75°C COPPER) |
|--------|-----|-----|---------|-------------|------------|---------|---------------|--|--------------------------------|
| T-X | 150 | 208 | 480/277 | 115 | DELTA Y | 60 | DISC. X | POWER SMITH: Esaver-25H-150-208-480-HD | (2-RUNS) 3" - 4#350KCMIL & #1G |

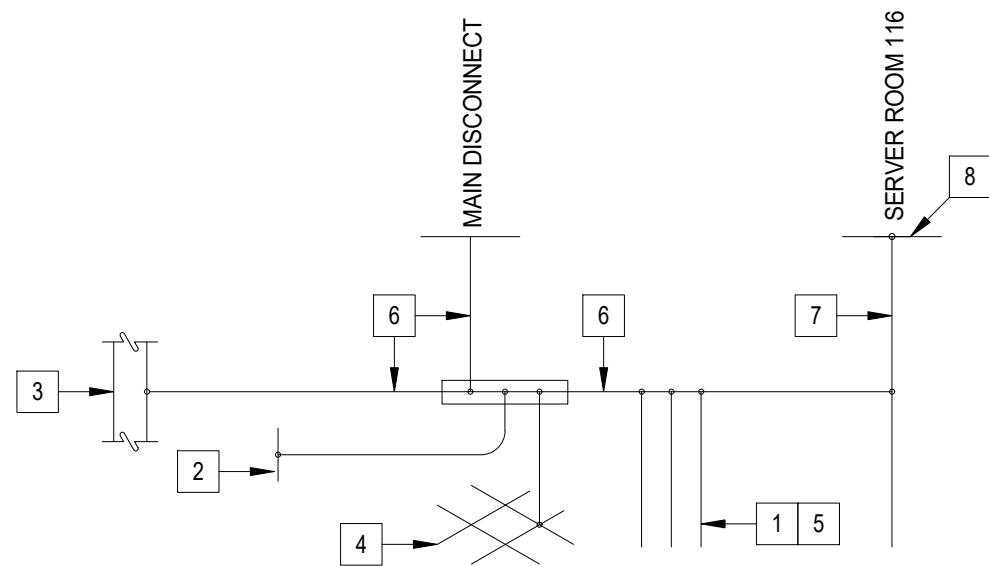
FEEDER SCHEDULE:

| FEEDER AMPS | CONDUIT AND FEEDER | FEEDING THESE DEVICES |
|-------------|----------------------------------|-----------------------|
| 60 | 1" - 4#6 & #10G | C1 |
| 100 | 1.25" - 4#3 & #6G | L1,L2,R1,R2 |
| 600 | (2-RUNS) 3" - 4#350KCMIL & #1G | AC, DISC. X |
| 1000 | (3-RUNS) 4" - 4#400KCMIL & #2/0G | MDP |
| 1000 | (3-RUNS) 4" - 4#400KCMIL | MS |

SIZING METHOD: COPPER 75°C



02 IMPROVEMENTS ELECTRICAL RISER DIAGRAM
SCALE : NONE



03 GROUNDING RISER DIAGRAM
SCALE : NONE

ELECTRICAL RISER DIAGRAM
DEMOLITION KEYED NOTES:

- EXISTING 2-4" RACEWAYS TO REMAIN. FIELD VERIFY EXACT LOCATIONS.
- EXISTING ELECTRIC UTILITY TRANSFORMER CONCRETE PAD TO REMAIN
- EXISTING 1,200A, 3P3F, 240V, S/N, NEMA 3R DISCONNECT TO REMAIN.
- REMOVE EXISTING RACEWAYS - TYPICAL.
- REMOVE EXISTING PANELBOARD AND ASSOCIATED TIME CLOCK.
- REMOVE EXISTING DISCONNECT - TYPICAL.
- REMOVE EXISTING WIRING GUTTER.

ELECTRICAL RISER DIAGRAM
IMPROVEMENTS KEYED NOTES:

- ELECTRIC UTILITY DIP POLE.
- PROVIDE (2)4" PVC RACEWAYS. PROVIDE LONG SWEEP RADIUS ELBOWS.
- PROVIDE DETECTABLE UNDERGROUND WARNING TAPE.
- EXISTING 2-4" RACEWAYS. FEILD VERIFY EXACT LOCATIONS.
- RETAIN AND RE-USE EXISTING ELECTRIC UTILITY TRANSFORMER CONCRETE PAD.
- PROVIDE 120/208V/3: ELECTRIC UTILITIES METER.
- PROVIDE 1.25" - 1#6G.
- 24"WIDE X 24"LONG X 24"DEEP (4" ABOVE GRADE) CONCRETE FOOTING WITH #4 REBAR WELDED ON TO 4" DIA. STEEL PIPE.
- 4" DIA. X 6' (ABOVE GROUND) HOT DIP GALVD. STEEL PIPE WITH CAP.
- 3 1/4" X 1 5/8", 12 GAUGE UNISTRUT, HOT DIP GALVD. AFTER FABRICATION.
- RETAIN AND RE-USE EXISTING 1,200A, 3P3F, 240V, S/N, NEMA 3R DISCONNECT. PROVIDE 1,000A FUSES.
- PROVIDE 250KA EXTERNALLY MOUNTED SPD CURRENT TECHNOLOGY MODEL #SL3-250-208-3Y-MD-B-MZ-F-HPL.
- PROVIDE 200A, 3P3F, 200AF, 600V, S/N, NEMA 1 DISCONNECT.
- PROVIDE 4" CONCRETE HOUSEKEEPING PAD.
- NEW ELECTRIC UTILITY PAD MOUNT TRANSFORMER.
- SEE GROUNDING RISER DIAGRAM.

GROUNDING RISER DIAGRAM
KEYED NOTES:

- PROVIDE (3)-3/4"X 10' COPPER CLAD GROUND RODS - TYPICAL.
- PROVIDE BOND/CLAMP TO COPPER WATER LINE.
- PROVIDE CADWELD CONNECT TO BUILDING STRUCTURE STEEL.
- PROVIDE CADWELD CONNECT TO BUILDING REBAR.
- PROVIDE IN A TRIANGULAR PATTERN. MINIMUM 6' SPACING.
- PROVIDE #3/0 BARE COPPER GROUND CONDUCTOR.
- PROVIDE #4 BARE COPPER CONDUCTOR.
- PROVIDE GROUND BUS BAR.



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F-15998

Branch Panel: R2

Location: ELECT. 167
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10K
Mains Type: M.L.O.
Mains Rating: 100 A
MCB Rating: 125 A

Notes:
Provide a type written as built directory that includes room numbers.

| CKT | Load Name | Trip | Poles | A | | B | | C | | Poles | Trip | Load Name | CKT |
|-------------|-------------------------|------|-------|----------|---------|----------|---------|----------|---------|-------|------|--------------|-----|
| 1 | Receptacle | 20 A | 1 | 900 VA | 360 VA | | | | | 1 | 20 A | Receptacle | 2 |
| 3 | Receptacle | 20 A | 1 | | | 360 VA | 180 VA | | | 1 | 20 A | Copier | 4 |
| 5 | Receptacle | 20 A | 1 | | | | | 900 VA | 180 VA | 1 | 20 A | Receptacle | 6 |
| 7 | Receptacle | 20 A | 1 | 360 VA | 700 VA | | | | | 1 | 20 A | Receptacle | 8 |
| 9 | Receptacle | 20 A | 1 | | | 1260... | 1260... | | | 1 | 20 A | Receptacle | 10 |
| 11 | Receptacle | 20 A | 1 | | | | | 540 VA | 720 VA | 1 | 20 A | Receptacle | 12 |
| 13 | Receptacle | 20 A | 1 | 1080... | 1200... | | | | | 1 | 20 A | Receptacle | 14 |
| 15 | Receptacle | 20 A | 1 | | | 180 VA | 1200... | | | 1 | 20 A | Receptacle | 16 |
| 17 | Receptacle | 20 A | 1 | | | | | 1200... | 540 VA | 1 | 20 A | Receptacle | 18 |
| 19 | Drinking Fountain | 20 A | 1 | 800 VA | 1200... | | | | | 1 | 20 A | Refrigerator | 20 |
| 21 | Irrigation Controller | 20 A | 1 | | | 180 VA | 1200... | | | 1 | 20 A | Receptacle | 22 |
| 23 | Receptacle | 20 A | 1 | | | | | 1200... | 1200... | 1 | 20 A | Receptacle | 24 |
| 25 | Receptacle | 20 A | 1 | 1200... | 1200... | | | | | 1 | 20 A | Receptacle | 26 |
| 27 | Copier | 20 A | 1 | | | 180 VA | 180 VA | | | 1 | 20 A | Receptacle | 28 |
| 29 | Receptacle | 20 A | 1 | | | | | 180 VA | 180 VA | 1 | 20 A | Receptacle | 30 |
| 31 | Receptacle | 20 A | 1 | 360 VA | 1260... | | | | | 1 | 20 A | Receptacle | 32 |
| 33 | Receptacle | 20 A | 1 | | | 1380... | 1200... | | | 1 | 20 A | Receptacle | 34 |
| 35 | | | | | | | | 900 VA | | 1 | 20 A | Receptacle | 36 |
| 37 | Receptacle | 20 A | 1 | 900 VA | 180 VA | | | | | 1 | 20 A | Receptacle | 38 |
| 39 | CP-1 | 20 A | 1 | | | 180 VA | 360 VA | | | 1 | 20 A | Receptacle | 40 |
| 41 | EF-13,EF-14,EF-15,EF-16 | 20 A | 1 | | | | | 519 VA | 263 VA | 1 | 20 A | EF-10,EF-17 | 42 |
| 43 | Power | 20 A | 1 | 500 VA | 180 VA | | | | | 1 | 20 A | Receptacle | 44 |
| 45 | WAC/ACCU-1 | 20 A | 3 | | | 0 VA | 1560... | | | 2 | 20 A | Cooling | 46 |
| 47 | -- | -- | -- | | | | | 0 VA | 1560... | -- | -- | -- | 48 |
| 49 | -- | -- | -- | 0 VA | | | | | | | | | 50 |
| 51 | | | | | | | | | | | | | 52 |
| 53 | Spare | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | Spare | 54 |
| 55 | Spare | 20 A | 1 | 0 VA | 0 VA | | | | | 1 | 20 A | Spare | 56 |
| 57 | Spare | 20 A | 1 | | | 0 VA | 0 VA | | | 1 | 20 A | Spare | 58 |
| 59 | Spare | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | Spare | 60 |
| Total Load: | | | | 12380 VA | | 10860 VA | | 10010 VA | | | | | |
| Total Amps: | | | | 104 A | | 92 A | | 83 A | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals |
|---------------------|----------------|---------------|------------------|---------------------------------|
| Cooling | 3120 VA | 100.00% | 3120 VA | |
| Equipment | 0 VA | 0.00% | 0 VA | Total Conn. Load: 33246 VA |
| Heating | 0 VA | 0.00% | 0 VA | Total Est. Demand: 24011 VA |
| HVAC | 0 VA | 0.00% | 0 VA | Total Conn. Current: 92 A |
| Lighting | 0 VA | 0.00% | 0 VA | Total Est. Demand Current: 67 A |
| Motor | 947 VA | 100.00% | 947 VA | |
| Other | 180 VA | 125.00% | 225 VA | |
| Power | 500 VA | 100.00% | 500 VA | |
| Receptacle | 28560 VA | 67.51% | 19280 VA | |
| Largest Motor | 0 VA | 0.00% | 0 VA | |

Notes:

Branch Panel: MDP

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 100K
Mains Type: M.L.O.
Mains Rating: 1000 A
MCB Rating: 225 A

Notes:
Provide a type written as built directory that includes room numbers.

| CKT | Load Name | Trip | Poles | A | B | C | Poles | Trip | Load Name | CKT |
|-------------|-------------|-------|-------|-----------|-----------|---------|---------|-------|---------------|-----|
| 1 | C1 | 60 A | 3 | 1974... | 1238... | | 3 | 100 A | R2 | 2 |
| 3 | -- | -- | -- | | 2052... | 1086... | -- | -- | -- | 4 |
| 5 | -- | -- | -- | | | 2334... | 1001... | -- | -- | 6 |
| 7 | L1 | 100 A | 3 | 1115... | 1699... | | 3 | 100 A | R1 | 8 |
| 9 | -- | -- | -- | | 5768... | 1729... | -- | -- | -- | 10 |
| 11 | -- | -- | -- | | | 8836... | 1688... | -- | -- | 12 |
| 13 | EW-H-1 | 45 A | 3 | 4000... | | | | | | 14 |
| 15 | -- | -- | -- | | 4000... | | | | | 16 |
| 17 | -- | -- | -- | | | 4000... | | | | 18 |
| 19 | AC | 600 A | 3 | 7215... | 1273... | | 3 | 30 A | COMP-1 (3HP) | 20 |
| 21 | -- | -- | -- | | 7215... | 1273... | -- | -- | -- | 22 |
| 23 | -- | -- | -- | | | 7215... | 1273... | -- | -- | 24 |
| 25 | VAC-1 (3HP) | 30 A | 3 | 1273... | 2666... | | 3 | 600 A | T-X (150 KVA) | 26 |
| 27 | -- | -- | -- | | 1273... | 2666... | -- | -- | -- | 28 |
| 29 | -- | -- | -- | | | 1273... | 2666... | -- | -- | 30 |
| 31 | Space | -- | -- | 0 VA | 0 VA | | -- | -- | Space | 32 |
| 33 | Space | -- | -- | | 0 VA | 0 VA | -- | -- | Space | 34 |
| 35 | Space | -- | -- | | | 0 VA | 0 VA | -- | Space | 36 |
| 37 | Space | -- | -- | 0 VA | 0 VA | | -- | -- | Space | 38 |
| 39 | Space | -- | -- | | 0 VA | 0 VA | -- | -- | Space | 40 |
| 41 | Space | -- | -- | | | 0 VA | 0 VA | -- | Space | 42 |
| Total Load: | | | | 165631 VA | 159806 VA | | | | | |
| Total Amps: | | | | 1386 A | 1332 A | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals |
|---------------------|----------------|---------------|------------------|-----------------------------------|
| Cooling | 66523 VA | 100.00% | 66523 VA | |
| Equipment | 80000 VA | 100.00% | 80000 VA | Total Conn. Load: 489866 VA |
| Heating | 153072 VA | 100.00% | 153072 VA | Total Est. Demand: 422156 VA |
| HVAC | 0 VA | 0.00% | 0 VA | Total Conn. Current: 1360 A |
| Lighting | 14399 VA | 100.00% | 14399 VA | Total Est. Demand Current: 1172 A |
| Motor | 10467 VA | 100.00% | 10467 VA | |
| Other | 12724 VA | 125.00% | 15905 VA | |
| Power | 500 VA | 100.00% | 500 VA | |
| Receptacle | 151784 VA | 53.29% | 80892 VA | |
| Largest Motor | 0 VA | 0.00% | 0 VA | |

Notes:

Branch Panel: R1

Location: ELECT. 167
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10K
Mains Type: M.L.O.
Mains Rating: 100 A
MCB Rating: 125 A

Notes: Provide a type written as built directory that includes room numbers.

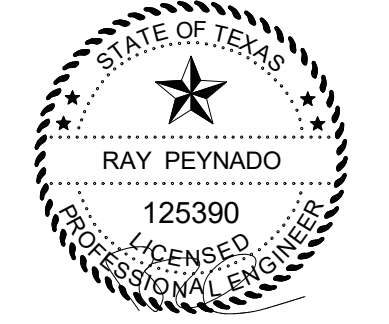
| CKT | Load Name | Trip | Poles | A | B | C | Poles | Trip | Load Name | CKT | |
|-------------|-----------------------|------|-------|----------|---------|----------|---------|----------|-----------|-----------------------|----|
| 1 | Receptacle | 20 A | 1 | 1080... | 1200... | | | 1 | 20 A | Receptacle | 2 |
| 3 | Receptacle | 20 A | 1 | | 2220... | 720 VA | | 1 | 20 A | Receptacle | 4 |
| 5 | Receptacle | 20 A | 1 | | | 1260... | 180 VA | 1 | 20 A | Receptacle | 6 |
| 7 | Receptacle | 20 A | 1 | 1200... | 360 VA | | | 1 | 20 A | Receptacle | 8 |
| 9 | Drinking Fountain | 20 A | 1 | | 800 VA | 1200... | | 1 | 20 A | Refrigerator | 10 |
| 11 | Receptacle | 20 A | 1 | | | 900 VA | 720 VA | 1 | 20 A | Receptacle | 12 |
| 13 | Receptacle | 20 A | 1 | 180 VA | 540 VA | | | 1 | 20 A | Receptacle | 14 |
| 15 | Receptacle | 20 A | 1 | | 360 VA | 720 VA | | 1 | 20 A | Receptacle | 16 |
| 17 | Refrigerator | 20 A | 1 | | | 1200... | 720 VA | 1 | 20 A | Receptacle | 18 |
| 19 | Receptacle | 20 A | 1 | 540 VA | 1200... | | | 1 | 20 A | Receptacle | 20 |
| 21 | Receptacle | 20 A | 1 | | 900 VA | 1080... | | 1 | 20 A | Receptacle | 22 |
| 23 | Receptacle | 20 A | 1 | | | 1020... | 1020... | 1 | 20 A | Receptacle | 24 |
| 25 | Receptacle | 20 A | 1 | 360 VA | 1200... | | | 1 | 20 A | Refrigerator | 26 |
| 27 | Receptacle | 20 A | 1 | | 700 VA | 1200... | | 1 | 20 A | Receptacle | 28 |
| 29 | Receptacle | 20 A | 1 | | | 1200... | 180 VA | 1 | 20 A | Receptacle | 30 |
| 31 | Receptacle | 20 A | 1 | 1200... | 1200... | | | 1 | 20 A | Receptacle | 32 |
| 33 | Receptacle | 20 A | 1 | | 1200... | 540 VA | | 1 | 20 A | Receptacle | 34 |
| 35 | Drinking Fountain | 20 A | 1 | | | 800 VA | 900 VA | 1 | 20 A | Receptacle | 36 |
| 37 | EF-1,EF-2,EF-3,EF-4 | 20 A | 1 | 512 VA | 828 VA | | | 1 | 20 A | EF-5,EF-6,EF-7 | 38 |
| 39 | EF-8,EF-9,EF-11,EF-12 | 20 A | 1 | | 741 VA | 180 VA | | 1 | 20 A | Endoscope Reprocessor | 40 |
| 41 | Receptacle | 20 A | 1 | | | 1200... | 1200... | 1 | 20 A | Receptacle | 42 |
| 43 | Receptacle | 20 A | 1 | 1200... | 1200... | | | 1 | 20 A | Receptacle | 44 |
| 45 | Receptacle | 20 A | 1 | | 720 VA | 720 VA | | 1 | 20 A | Receptacle | 46 |
| 47 | Receptacle | 20 A | 1 | | | 1200... | 1200... | 1 | 20 A | Receptacle | 48 |
| 49 | Receptacle | 20 A | 1 | 360 VA | 1200... | | | 1 | 20 A | Receptacle | 50 |
| 51 | Receptacle | 20 A | 1 | | 720 VA | 900 VA | | 1 | 20 A | Receptacle | 52 |
| 53 | Receptacle | 20 A | 1 | | | 1080... | 900 VA | 1 | 20 A | Receptacle | 54 |
| 55 | Receptacle | 20 A | 1 | 360 VA | 1200... | | | 1 | 20 A | Receptacle | 56 |
| 57 | Receptacle | 20 A | 1 | | 540 VA | 1200... | | 1 | 20 A | Receptacle | 58 |
| 59 | | | | | | | | | | | 60 |
| Total Load: | | | | 16996 VA | | 17290 VA | | 16880 VA | | | |
| Total Amps: | | | | 142 A | | 144 A | | 141 A | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals |
|---------------------|----------------|---------------|------------------|---------------------------------|
| Cooling | 0 VA | 0.00% | 0 VA | |
| Equipment | 0 VA | 0.00% | 0 VA | Total Conn. Load: 51161 VA |
| Heating | 0 VA | 0.00% | 0 VA | Total Est. Demand: 31526 VA |
| HVAC | 0 VA | 0.00% | 0 VA | Total Conn. Current: 142 A |
| Lighting | 0 VA | 0.00% | 0 VA | Total Est. Demand Current: 88 A |
| Motor | 2081 VA | 100.00% | 2081 VA | |
| Other | 0 VA | 0.00% | 0 VA | |
| Power | 0 VA | 0.00% | 0 VA | |
| Receptacle | 49280 VA | 60.15% | 29640 VA | |
| Largest Motor | 0 VA | 0.00% | 0 VA | |

Notes:



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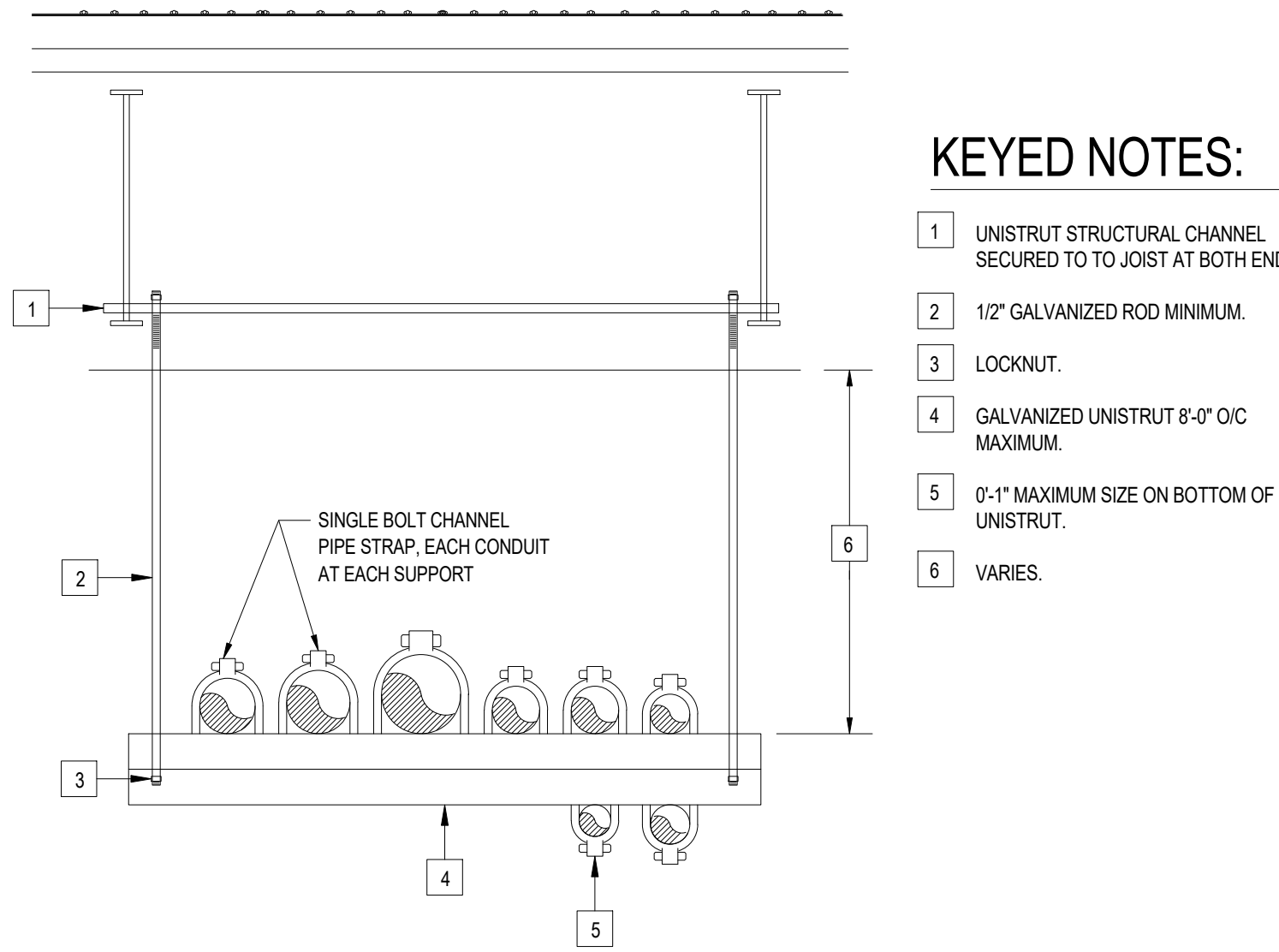
Electrical Panel Schedules

E8.01

| Branch Panel: AC | | | | | | | | | | | |
|--|---|----------------|-------|--------------------|----------|------------------|---------|----------------------------------|-----------|---|--|
| Location: ELECT. 167 | | | | Volts: 120/208 Wye | | | | A.I.C. Rating: 65K | | | |
| Supply From: MDP | | | | Phases: 3 | | | | Mains Type: M.L.O. | | | |
| Mounting: Surface | | | | Wires: 4 | | | | Mains Rating: 600 A | | | |
| Enclosure: Type 1 | | | | | | | | MCB Rating: 225 A | | | |
| Notes: Provide with a type written as built directory that includes room numbers. | | | | | | | | | | | |
| CKT | Load Name | Trip | Poles | A | B | C | Poles | Trip | Load Name | CKT | |
| 1 | RTU-1 | 60 A | 3 | 5404... | 3999... | | | 3 | 45 A | RTU-2 | |
| 3 | -- | -- | -- | | 5404... | 3999... | | -- | -- | -- | |
| 5 | -- | -- | -- | | | 5404... | 3999... | -- | -- | -- | |
| 7 | VAV-1-1,VAV-1-2,VAV-1-3,VAV-1-4 | 50 A | 3 | 4667... | 6667... | | | 3 | 70 A | VAV-2-1,VAV-2-1,VAV-2-3,VAV-2-4,VAV-2-5 | |
| 9 | -- | -- | -- | | 4667... | 6667... | | -- | -- | -- | |
| 11 | -- | -- | -- | | | 4667... | 6667... | -- | -- | -- | |
| 13 | VAV-1-5,VAV-1-6,VAV-1-7,VAV-1-8 | 60 A | 3 | 5167... | 2894... | | | 3 | 35 A | RTU-4 | |
| 15 | -- | -- | -- | | 5167... | 2894... | | -- | -- | -- | |
| 17 | -- | -- | -- | | | 5167... | 2894... | -- | -- | -- | |
| 19 | RTU-3 | 60 A | 3 | 4839... | 4333... | | | 3 | 50 A | VAV-4-1,VAV-4-2,VAV-4-3 | |
| 21 | -- | -- | -- | | 4839... | 4333... | | -- | -- | -- | |
| 23 | -- | -- | -- | | | 4839... | 4333... | -- | -- | -- | |
| 25 | VAV-3-1,VAV-3-2,VAV-3-3,VAV-3-4,VAV-3-4 | 80 A | 3 | 7667... | | | | | | | |
| 27 | -- | -- | -- | | 7667... | | | | | | |
| 29 | -- | -- | -- | | | 7667... | | | | | |
| 31 | RTU-5 | 45 A | 3 | 3999... | 8262... | | | 3 | 90 A | DOAS-1 | |
| 33 | -- | -- | -- | | 3999... | 8262... | | -- | -- | -- | |
| 35 | -- | -- | -- | | | 3999... | 8262... | -- | -- | -- | |
| 37 | VAV-5-1,VAV-5-2,VAV-5-3,VAV-5-4,VAV-5-5 | 70 A | 3 | 6000... | 8262... | | | 3 | 90 A | DOAS-2 | |
| 39 | -- | -- | -- | | 6000... | 8262... | | -- | -- | -- | |
| 41 | -- | -- | -- | | | 6000... | 8262... | -- | -- | -- | |
| Total Load: | | | | 72158 VA | 72158 VA | 72158 VA | | | | | |
| Total Amps: | | | | 601 A | 601 A | 601 A | | | | | |
| Legend: | | | | | | | | | | | |
| Load Classification | | Connected Load | | Demand Factor | | Estimated Demand | | Panel Totals | | | |
| Cooling | | 63403 VA | | 100.00% | | 63403 VA | | | | | |
| Equipment | | 0 VA | | 0.00% | | 0 VA | | Total Conn. Load: 216475 VA | | | |
| Heating | | 153072 VA | | 100.00% | | 153072 VA | | Total Est. Demand: 216475 VA | | | |
| HVAC | | 0 VA | | 0.00% | | 0 VA | | Total Conn. Current: 601 A | | | |
| Lighting | | 0 VA | | 0.00% | | 0 VA | | Total Est. Demand Current: 601 A | | | |
| Motor | | 0 VA | | 0.00% | | 0 VA | | | | | |
| Other | | 0 VA | | 0.00% | | 0 VA | | | | | |
| Power | | 0 VA | | 0.00% | | 0 VA | | | | | |
| Receptacle | | 0 VA | | 0.00% | | 0 VA | | | | | |
| Largest Motor | | 0 VA | | 0.00% | | 0 VA | | | | | |
| Notes: Provide HACR type circuit breaker for all RTU's. | | | | | | | | | | | |

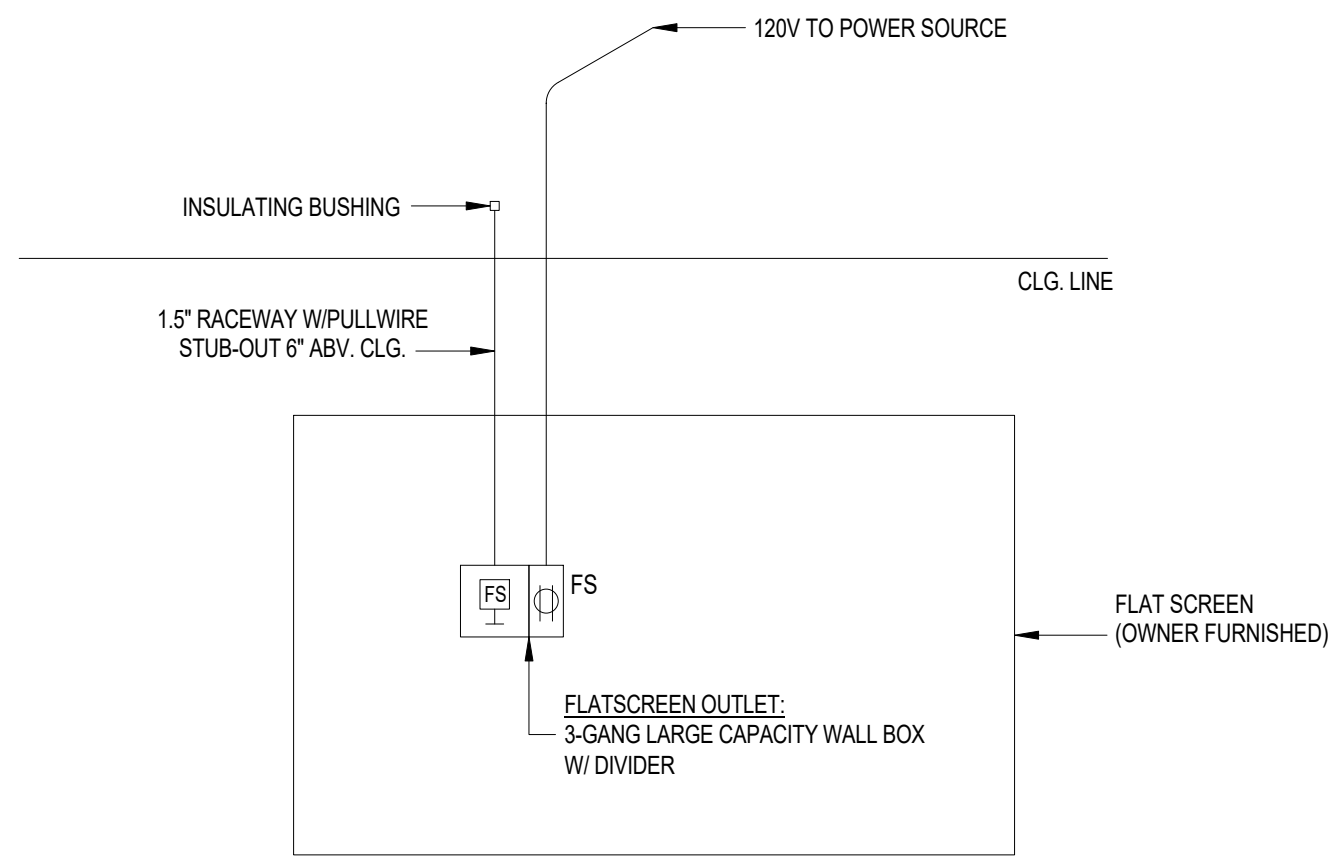
| Branch Panel: L1 | | | | | | | | | | | | | |
|--|-------------|----------------|-------|--------------------|---------|------------------|---------|---------------------------------|---------|-------|------|-------------------|-----|
| Location: ELECT. 167 | | | | Volts: 120/208 Wye | | | | A.I.C. Rating: 10K | | | | | |
| Supply From: MDP | | | | Phases: 3 | | | | Mains Type: M.L.O. | | | | | |
| Mounting: Surface | | | | Wires: 4 | | | | Mains Rating: 100 A | | | | | |
| Enclosure: Type 1 | | | | | | | | MCB Rating: 125 A | | | | | |
| Notes: | | | | | | | | | | | | | |
| Provide with a type written as built directory that includes room numbers. | | | | | | | | | | | | | |
| CKT | Load Name | Trip | Poles | A | | B | | C | | Poles | Trip | Load Name | CKT |
| 1 | Lighting | 20 A | 1 | 1153... | 1476... | | | | | 1 | 20 A | Lighting | 2 |
| 3 | Lighting | 20 A | 1 | | | 1842... | 1050... | | | 1 | 20 A | Lighting | 4 |
| 5 | Lighting | 20 A | 1 | | | | | 665 VA | 1406... | 1 | 20 A | Lighting | 6 |
| 7 | Lighting | 20 A | 1 | 1188... | 665 VA | | | | | 1 | 20 A | Lighting | 8 |
| 9 | Lighting | 20 A | 1 | | | 972 VA | 807 VA | | | 1 | 20 A | Lighting | 10 |
| 11 | Lighting | 20 A | 1 | | | | | 1320... | 93 VA | 1 | 20 A | Lighting | 12 |
| 13 | Lighting | 20 A | 1 | 592 VA | 874 VA | | | | | 1 | 20 A | Lighting | 14 |
| 15 | Lighting | 20 A | 1 | | | 456 VA | 420 VA | | | 1 | 20 A | Exterior Lighting | 16 |
| 17 | Receptacle | 20 A | 1 | | | | | 360 VA | 4992... | 1 | 30 A | Receptacle | 18 |
| 19 | Receptacle | 20 A | 1 | 4992... | 222 VA | | | | | 2 | 20 A | Site Lighting | 20 |
| 21 | Laser Scope | 20 A | 2 | | | 0 VA | 222 VA | | | -- | -- | -- | 22 |
| 23 | -- | -- | -- | | | | | 0 VA | 0 VA | 1 | 20 A | Spare | 24 |
| 25 | Laser Scope | 20 A | 1 | 0 VA | 0 VA | | | | | 1 | 20 A | Spare | 26 |
| 27 | Spare | 20 A | 1 | | | 0 VA | 0 VA | | | 1 | 20 A | Spare | 28 |
| 29 | Spare | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | Spare | 30 |
| 31 | Spare | 20 A | 1 | 0 VA | 0 VA | | | | | 1 | 20 A | Spare | 32 |
| 33 | Spare | 20 A | 1 | | | 0 VA | 0 VA | | | 1 | 20 A | Spare | 34 |
| 35 | Spare | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | Spare | 36 |
| 37 | Spare | 20 A | 1 | 0 VA | 0 VA | | | | | 1 | 20 A | Spare | 38 |
| 39 | Spare | 20 A | 1 | | | 0 VA | 0 VA | | | 1 | 20 A | Spare | 40 |
| 41 | Spare | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | Spare | 42 |
| 43 | Spare | 20 A | 1 | 0 VA | 0 VA | | | | | 1 | 20 A | Spare | 44 |
| 45 | Spare | 20 A | 1 | | | 0 VA | 0 VA | | | 1 | 20 A | Spare | 46 |
| 47 | Spare | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | Spare | 48 |
| 49 | Spare | 20 A | 1 | 0 VA | 0 VA | | | | | 1 | 20 A | Spare | 50 |
| 51 | Spare | 20 A | 1 | | | 0 VA | 0 VA | | | 1 | 20 A | Spare | 52 |
| 53 | Spare | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | Spare | 54 |
| 55 | Spare | 20 A | 1 | 0 VA | 0 VA | | | | | 1 | 20 A | Spare | 56 |
| 57 | Spare | 20 A | 1 | | | 0 VA | 0 VA | | | 1 | 20 A | Spare | 58 |
| 59 | Spare | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | Spare | 60 |
| Total Load: | | | | 11153 VA | | 5768 VA | | 8836 VA | | | | | |
| Total Amps: | | | | 97 A | | 48 A | | 78 A | | | | | |
| Legend: | | | | | | | | | | | | | |
| Load Classification | | Connected Load | | Demand Factor | | Estimated Demand | | Panel Totals | | | | | |
| Cooling | | 0 VA | | 0.00% | | 0 VA | | | | | | | |
| Equipment | | 0 VA | | 0.00% | | 0 VA | | Total Conn. Load: 25757 VA | | | | | |
| Heating | | 0 VA | | 0.00% | | 0 VA | | Total Est. Demand: 25721 VA | | | | | |
| HVAC | | 0 VA | | 0.00% | | 0 VA | | Total Conn. Current: 71 A | | | | | |
| Lighting | | 14399 VA | | 100.00% | | 14399 VA | | Total Est. Demand Current: 71 A | | | | | |
| Motor | | 0 VA | | 0.00% | | 0 VA | | | | | | | |
| Other | | 544 VA | | 125.00% | | 680 VA | | | | | | | |
| Power | | 0 VA | | 0.00% | | 0 VA | | | | | | | |
| Receptacle | | 10344 VA | | 98.34% | | 10172 VA | | | | | | | |
| Largest Motor | | 0 VA | | 0.00% | | 0 VA | | | | | | | |
| Notes: | | | | | | | | | | | | | |

| Branch Panel: C1 | | | | | | | | | | | |
|--|------------|----------------|-------|---------------|--------------------|------------------|---------|----------------------------------|-----------|------------|----|
| Location: PEDI EXAM 2 164 | | | | | Volts: 120/208 Wye | | | A.I.C. Rating: | | | |
| Supply From: MDP | | | | | Phases: 3 | | | Mains Type: M.L.O. | | | |
| Mounting: Surface | | | | | Wires: 4 | | | Mains Rating: 100 A | | | |
| Enclosure: Type 1 | | | | | | | | MCB Rating: 225 A | | | |
| Notes: | | | | | | | | | | | |
| Provide with a type written as built directory that includes room numbers. | | | | | | | | | | | |
| CKT | Load Name | Trip | Poles | A | B | C | Poles | Trip | Load Name | CKT | |
| 1 | Receptacle | 20 A | 1 | 540 VA | 540 VA | | | 1 | 20 A | Receptacle | 2 |
| 3 | Receptacle | 20 A | 1 | | 540 VA | 360 VA | | 1 | 20 A | Receptacle | 4 |
| 5 | Receptacle | 20 A | 1 | | | 540 VA | 720 VA | 1 | 20 A | Receptacle | 6 |
| 7 | Receptacle | 20 A | 1 | 720 VA | 360 VA | | | 1 | 20 A | Receptacle | 8 |
| 9 | Receptacle | 20 A | 1 | | 540 VA | 540 VA | | 1 | 20 A | Receptacle | 10 |
| 11 | Receptacle | 20 A | 1 | | | 540 VA | 180 VA | 1 | 20 A | Receptacle | 12 |
| 13 | Receptacle | 20 A | 1 | 720 VA | 540 VA | | | 1 | 20 A | Receptacle | 14 |
| 15 | Receptacle | 20 A | 1 | | 1920... | 1920... | | 1 | 20 A | Receptacle | 16 |
| 17 | Receptacle | 20 A | 1 | | | 1920... | 1920... | 1 | 20 A | Receptacle | 18 |
| 19 | Receptacle | 20 A | 1 | 1920... | 1920... | | | 1 | 20 A | Receptacle | 20 |
| 21 | Receptacle | 20 A | 1 | | 1920... | 1920... | | 1 | 20 A | Receptacle | 22 |
| 23 | Receptacle | 20 A | 1 | | | 1920... | 1440... | 1 | 20 A | Receptacle | 24 |
| 25 | Receptacle | 20 A | 1 | 1440... | 1440... | | | 1 | 20 A | Receptacle | 26 |
| 27 | Receptacle | 20 A | 1 | | 1440... | 1080... | | 1 | 20 A | Receptacle | 28 |
| 29 | Receptacle | 20 A | 1 | | | 1920... | 1920... | 1 | 20 A | Receptacle | 30 |
| 31 | Receptacle | 20 A | 1 | 1920... | 1920... | | | 1 | 20 A | Receptacle | 32 |
| 33 | Receptacle | 20 A | 1 | | 1920... | 1920... | | 1 | 20 A | Receptacle | 34 |
| 35 | Receptacle | 20 A | 1 | | | 1920... | 1920... | 1 | 20 A | Receptacle | 36 |
| 37 | Receptacle | 20 A | 1 | 1440... | 1440... | | | 1 | 20 A | Receptacle | 38 |
| 39 | Receptacle | 20 A | 1 | | 1440... | 180 VA | | 1 | 20 A | Receptacle | 40 |
| 41 | Receptacle | 20 A | 1 | | | 1920... | 2640... | 1 | 20 A | Receptacle | 42 |
| 43 | Receptacle | 20 A | 1 | 1440... | 1440... | | | 1 | 20 A | Receptacle | 44 |
| 45 | Receptacle | 20 A | 1 | | 1440... | 1440... | | 1 | 20 A | Receptacle | 46 |
| 47 | Receptacle | 20 A | 1 | | | 1920... | | | | | 48 |
| 49 | Spare | 20 A | 1 | 0 VA | 0 VA | | | 1 | 20 A | Spare | 50 |
| 51 | Spare | 20 A | 1 | | 0 VA | 0 VA | | 1 | 20 A | Spare | 52 |
| 53 | Spare | 20 A | 1 | | | 0 VA | 0 VA | 1 | 20 A | Spare | 54 |
| 55 | Space | -- | -- | 0 VA | 0 VA | | | -- | -- | Space | 56 |
| 57 | Space | -- | -- | | 0 VA | 0 VA | | -- | -- | Space | 58 |
| 59 | Space | -- | -- | | | 0 VA | 0 VA | -- | -- | Space | 60 |
| Total Load: | | | | 19740 VA | | 20520 VA | | 23340 VA | | | |
| Total Amps: | | | | 165 A | | 172 A | | 196 A | | | |
| Legend: | | | | | | | | | | | |
| Load Classification | | Connected Load | | Demand Factor | | Estimated Demand | | Panel Totals | | | |
| Cooling | | 0 VA | | 0.00% | | 0 VA | | | | | |
| Equipment | | 0 VA | | 0.00% | | 0 VA | | Total Conn. Load: 63600 VA | | | |
| Heating | | 0 VA | | 0.00% | | 0 VA | | Total Est. Demand: 36800 VA | | | |
| HVAC | | 0 VA | | 0.00% | | 0 VA | | Total Conn. Current: 177 A | | | |
| Lighting | | 0 VA | | 0.00% | | 0 VA | | Total Est. Demand Current: 102 A | | | |
| Motor | | 0 VA | | 0.00% | | 0 VA | | | | | |
| Other | | 0 VA | | 0.00% | | 0 VA | | | | | |
| Power | | 0 VA | | 0.00% | | 0 VA | | | | | |
| Receptacle | | 63600 VA | | 57.86% | | 36800 VA | | | | | |
| Largest Motor | | 0 VA | | 0.00% | | 0 VA | | | | | |
| Notes: | | | | | | | | | | | |



01 HORIZONTAL RACEWAYS
SUPPORT DETAIL

SCALE : NOT TO SCALE

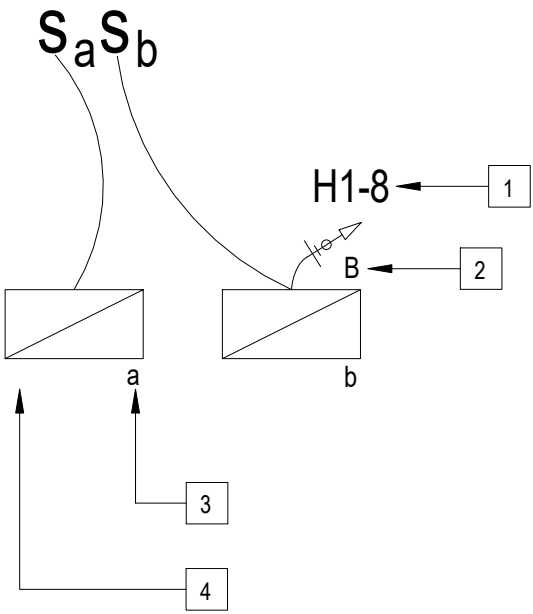


06 TYPICAL
FLAT SCREEN DETAIL

SCALE : NOT TO SCALE

KEYED NOTES:

- 1 UNISTRUT STRUCTURAL CHANNEL SECURED TO JOIST AT BOTH ENDS.
- 2 1/2" GALVANIZED ROD MINIMUM.
- 3 LOCKNUT.
- 4 GALVANIZED UNISTRUT 8"-10" O/C MAXIMUM.
- 5 0"-1" MAXIMUM SIZE ON BOTTOM OF UNISTRUT.
- 6 VARIES.

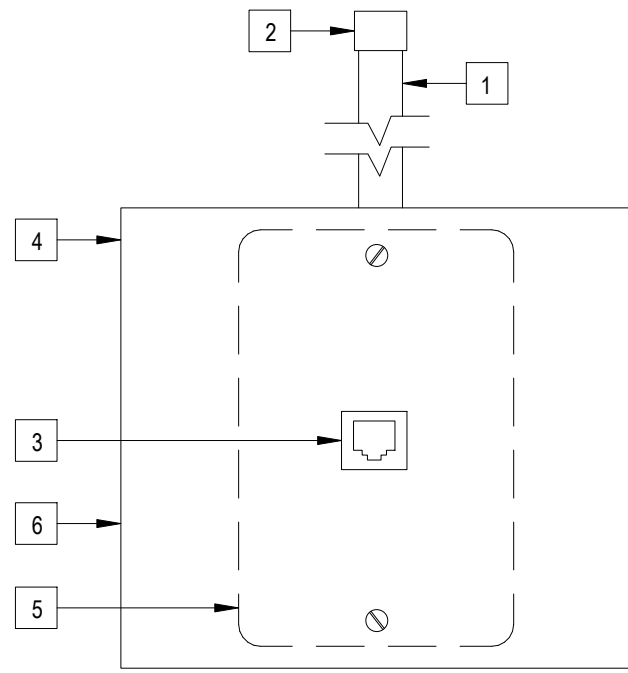


02 LIGHTING LEGEND DETAIL

SCALE : NOT TO SCALE

KEYED NOTES:

- 1 PROVIDE CIRCUIT HOMERUN
- 2 PROVIDE FIXTURE TYPE - REFER TO LIGHT FIXTURE SCHEDULE
- 3 INDICATES SWITCH CONTROLLING LIGHT FIXTURE.
- 4 INDICATES BRANCH CIRCUIT LIGHT FIXTURE IS CONNECTED TO



03 TYPICAL DATA/TELEPHONE
OUTLET DETAIL

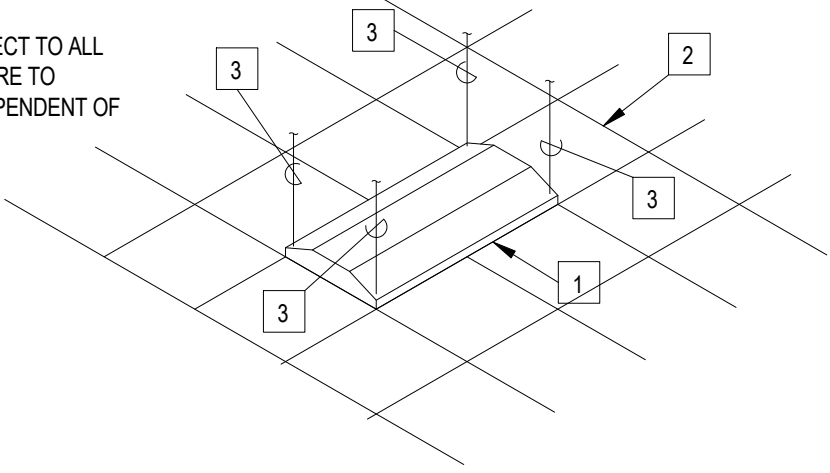
SCALE : NOT TO SCALE

KEYED NOTES:

- 1 PROVIDE 1" EMT STUBBED ABOVE CLG.
- 2 PROVIDE INSULATING BUSHING
- 3 PROVIDE CATEGORY SIX JACK
- 4 PROVIDE COVERPLATE
- 5 PROVIDE STEEL MUD RING
- 6 PROVIDE 4"x4"x2-5/8" DEEP BOX

KEYED NOTES:

- 1 PROVIDE 2x4' LAY-IN FLUORESCENT FIXTURE
- 2 SUSPENDED CEILING
- 3 PROVIDE TIE WIRE, CONNECT TO ALL FOUR CORNERS OF FIXTURE TO STRUCTURE ABOVE, INDEPENDENT OF CEILING SUPPORTS.



05 TYPICAL
LAY-IN FIXTURE SUPPORT

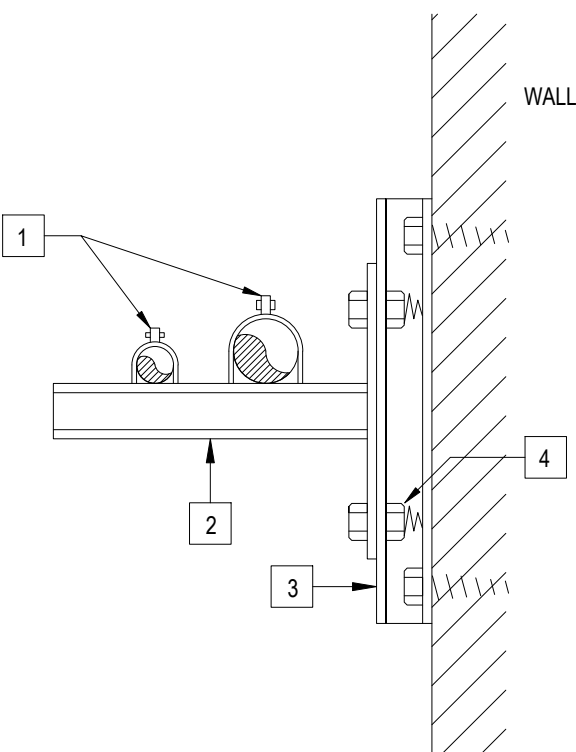
SCALE : NOT TO SCALE



NOTE: ATTACH NAMEPLATES TO ALL ELECTRICAL GEAR AS NOTED ON SECTION 16075.

04 EQUIPMENT
IDENTIFICATION LABEL DETAIL

SCALE : NOT TO SCALE

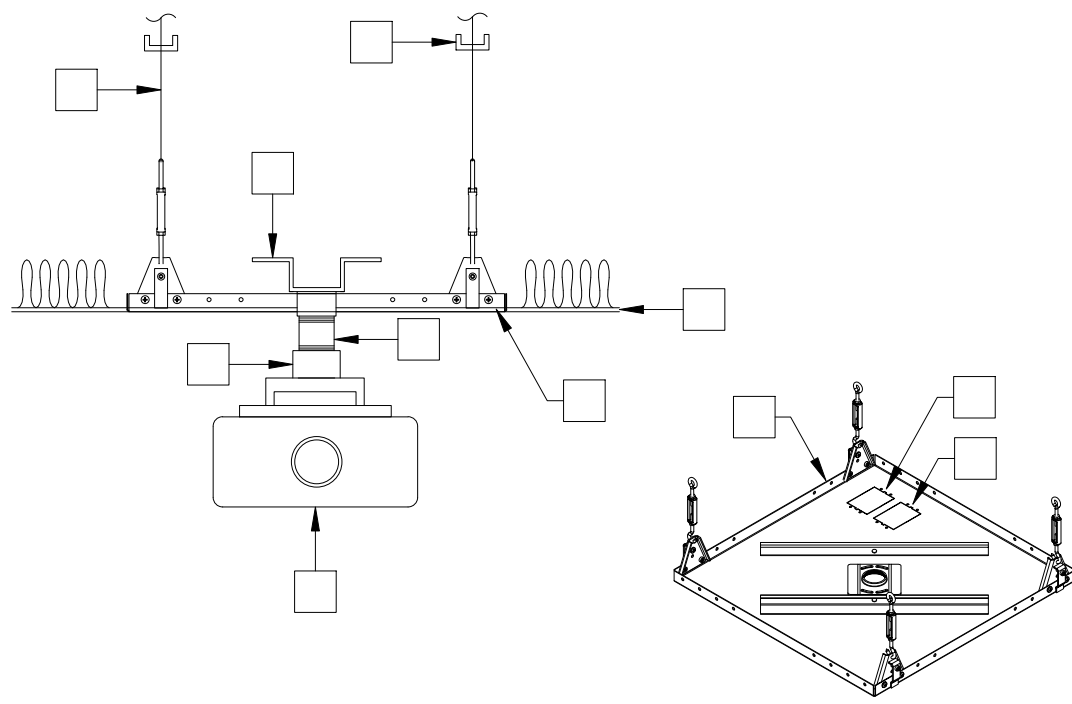


07 RACEWAY RUNS
SUPPORT DETAIL

SCALE : NOT TO SCALE

KEYED NOTES:

- 1 PROVIDE CONDUIT CLAMPS.
- 2 PROVIDE GALVANIZED UNISTRUT WALL BRACKET.
- 3 PROVIDE RAMSET OR BOLT GALVANIZED UNISTRUT TO WALL.
- 4 PROVIDE SELF HOLDING CLAMPING NUT WITH SPRING.



08 TYPICAL PROJECTOR
MOUNTING DETAIL

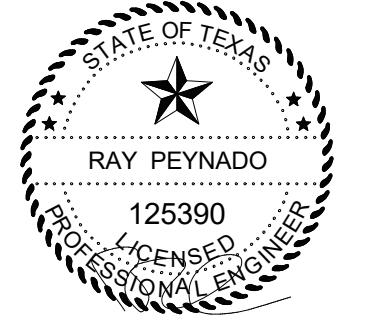
SCALE : NOT TO SCALE

KEYED NOTES:

- 1 KNOCK OUT FOR DUPLEX RECEPTACLE AS INDICATED.
- 2 SECURE TIRE WIRES FROM STRUCTURE STEEL.
- 3 PROVIDE CMA CEILING PLATE.
- 4 PROVIDE CHIEF MFG. MODEL CMS EXTENSION COLUMN.
- 5 SUSPENDED CEILING.
- 6 PROVIDE CHIEF MFG. MODEL VCM296 S PROJECTOR MOUNT.
- 7 PROVIDE 2X2' SUSPENDED CEILING TILE REPLACEMENT CHIEF MFG. MODEL NO. CMA455.
- 8 CEILING PROJECTOR PROVIDED BY OWNER.
- 9 KNOCK OUT FOR DATA OUTLET AS INDICATED.
- 10 PROVIDE UNISTRUT SUPPORT.



119 W. VAN BUREN AVE. STE. 101
PHONE: 956-230-3435
TEXAS REGISTERED
ENGINEERING FIRM
F-15998



| SYMBOL | DESCRIPTION | MTG. HT. UNO (SEE NOTE 1) |
|--------|---|------------------------------|
| P | PROVIDE DOOR POWER SUPPLY. | 12" ABC |
| J | DIVISION 26 PROVIDE 2-GANG JUNCTION BOX. | ---- |
| RB | PROVIDE RELEASE BUTTON - DIVISION 26 PROVIDE BACK BOX WITH 1/2" RACEWAY STUBBED INTO ACCESSIBLE CLG. WITH PULL WIRE. | 48" AFF |
| ES | CONNECT ELECTRIC STRIKE PROVIDED BY DOOR ACCESS CONTRACTOR - DIVISION 26 PROVIDE 1/2" RACEWAY STUBBED TO POWER SUPPLY ABOVE ACCESSIBLE CLG. WITH PULL WIRE. | ---- |
| CR | PROVIDE CARD READER BACK BOX WITH 1/2" RACEWAY STUBBED TO POWER SUPPLY ABOVE ACCESSIBLE CLG. WITH PULL WIRE. | 48" AFF |

1. 48" AFF INDICATES TO TOP OF DEVICE;
2. PRIOR TO ANY ROUGH-IN COORDINATE EXACT LOCATION OF BACK BOXES WITH DOOR ACCESS SYSTEM SUB-CONTRACTOR.
3. ALL 120V CONNECTIONS, WIRING AND RACEWAYS SHALL BE BY THIS CONTRACTOR.



SCALE : NOT TO SCALE



SCALE : NOT TO SCALE

- 1 PROVIDE 120V CONNECTION.
- 2 PROVIDE 18/2 WIRING IN RACEWAYS. PROVIDE INTERLOCK WITH FIRE ALARM SYSTEM.
- 3 PROVIDE 22/2 WIRING IN RACEWAY. PROVIDE INTERLOCK WITH SECURITY PANEL.



SCALE: NOT TO SCALE

| SYMBOL | DESCRIPTION |
|-----------|--|
| — — | TO PROVIDE RACEWAY AND WIRING . |
| — — — — | PROVIDE RACEWAY AND LOW VOLTAGE CABLING. |
| — — — — — | PROVIDE LOW VOLTAGE CABLING BY DOOR ACCESS CONTRACTOR. |



SPECIFIC

SCALE : NOT TO SCALE

- 1 UNISTRUT STRUCTURAL CHANNEL
SECURED TO TO JOIST AT BOTH ENDS.
- 2 1/2" THREADED ROD.
- 3 CABLE TRAY - 12"WIDE X 4" HEIGHT.
- 4 UNISTRUT BOLTED TO THREADED ROD
- 5 SUSPENDED CEILING. WHERE
APPLICABLE.



05 MO
SCALE : NOT TO SCALE

06

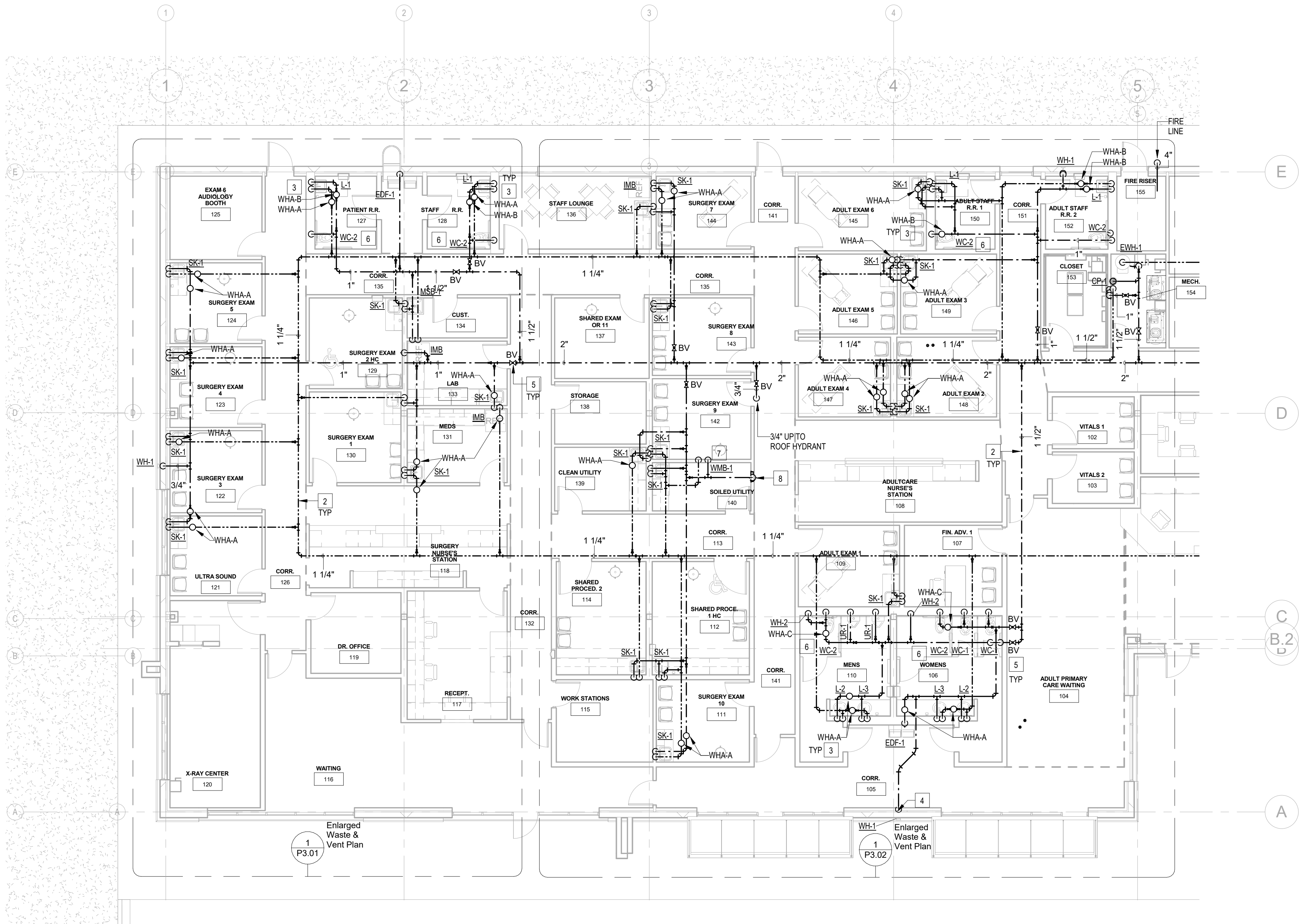
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SCALE : NOT TO SCALE

SALE

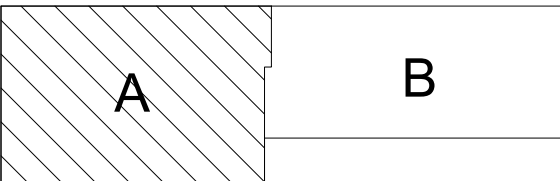


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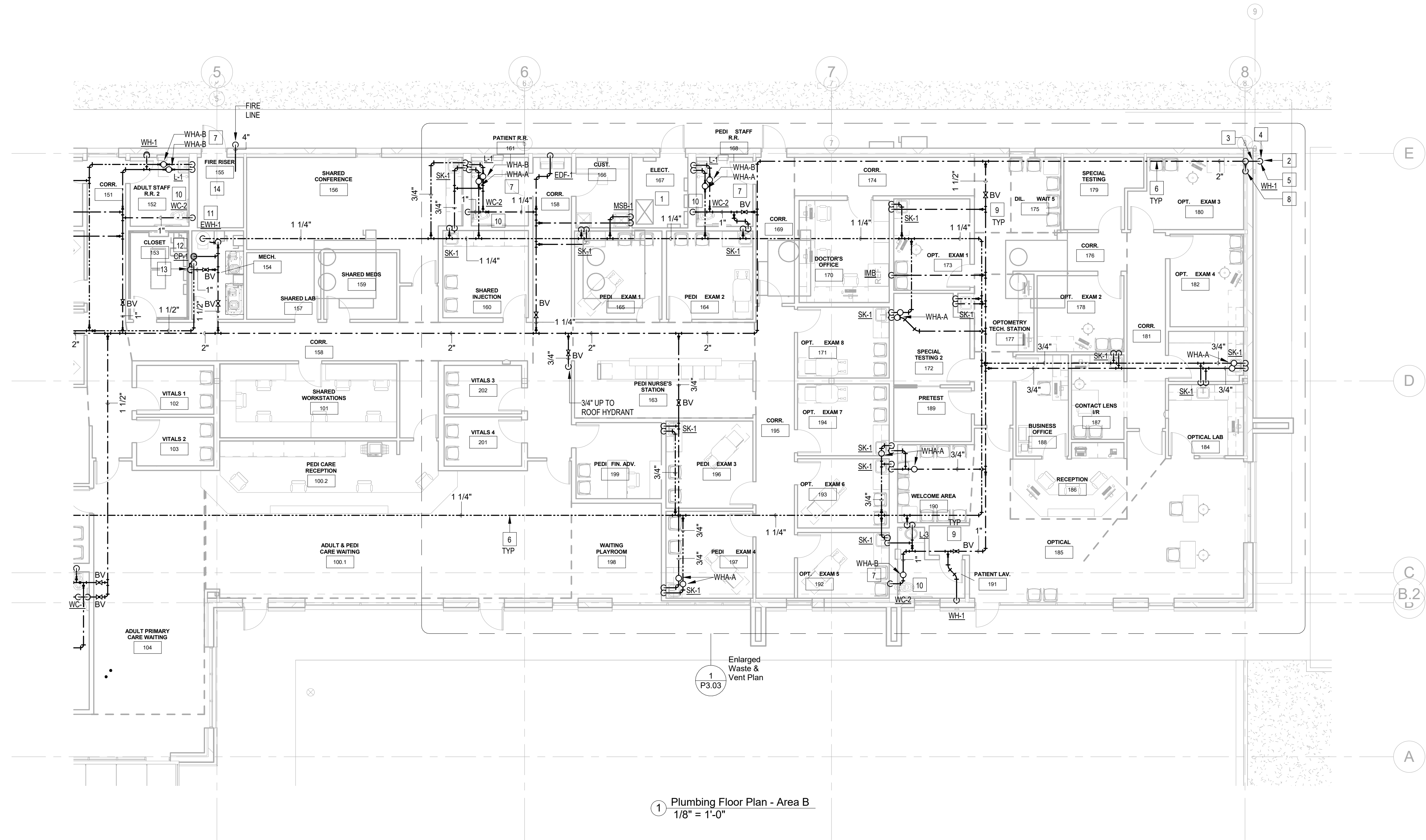
1 Plumbing Floor Plan - Area A
1/8" = 1'-0"

KEYPLAN



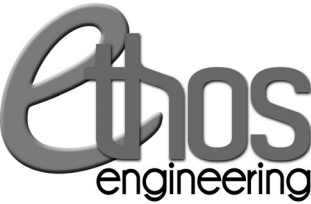
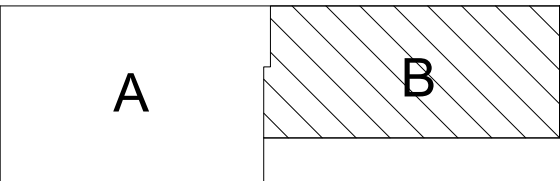
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- PLUMBING KEYED NOTES:
1. CLEARANCE FOR ELECTRICAL PANELS. DO NOT ROUTE PIPING OVER THIS AREA. REFER TO ELECTRICAL PLANS FOR EXACT LOCATION OF ELECTRICAL ROOMS.
 2. PROVIDE PIPING SUPPORT AS PER SPECS AND DETAIL. SEE ASSOCIATED DETAIL ON DETAIL SHEET - TYPICAL.
 3. PROVIDE WATER HAMMER ARRESTOR (WHA), MIFAB OR APPROVED EQUAL. INDICATED MODEL (A,B,C,D,E,F) AS PER MIFAB SIZING CHART. PROVIDE 12"X12" ACCESS PANEL WHERE INSTALLED IN AN INACCESSIBLE AREA. ACCESS PANEL EQUAL TO ACUDOR MODEL UF5000 WITH CYLINDER LOCK AND KEY AND PAINT TO MATCH THE WALL/CEILING. (TYPICAL)
 4. PROVIDE WALL HYDRANT AS SCHEDULED. PROVIDE CLOSE COUPLED HYDRANT TO ENSURE PIPE TURNS UP INSIDE BLOCK WALL. COORDINATE WALL THICKNESS WITH WALL HYDRANT MANUFACTURER DATA - TYPICAL.
 5. PROVIDE BRONZE ISOLATION BALL VALVE ABOVE CEILING OR BEHIND WALL. PROVIDE 12"X12" ACCESS PANEL WHERE INSTALLED IN AN INACCESSIBLE AREA. ACCESS PANEL EQUAL TO ACUDOR MODEL UF5000 WITH CYLINDER LOCK AND KEY AND PAINT TO MATCH THE WALL/CEILING. PROVIDE VALVE IDENTIFICATION TAGS AS PER SPECIFICATIONS. (TYPICAL)
 6. INSTALL WATER CLOSET FLUSH VALVE HANDLE TOWARDS WIDE SIDE OF THE ROOM. COORDINATE WITH GENERAL CONTRACTOR.
 7. PROVIDE WASHING MACHINE BOX TO SERVE OWNERS MEDICAL EQUIPMENT. COORDINATE EXACT MOUNTING LOCATION WITH OWNER AND GENERAL CONTRACTOR.
 8. PROVIDE ELECTRONIC TRAP PRIMER PPP MODEL MPB500 OR APPROVED EQUAL. TAP FROM TOP OF COLD WATER LINE AND DOWN IN WALL CAVITY TO FD (MULTIPLE FLOOR DRAINS). PROVIDE RECESSED BOX WITH COVER, COPPER DISTRIBUTION UNIT DU-4, WITH FOUR OUTLETS, AND CAP UNUSED OUTLETS. SEE ASSOCIATED DETAIL ON DETAILS SHEET.

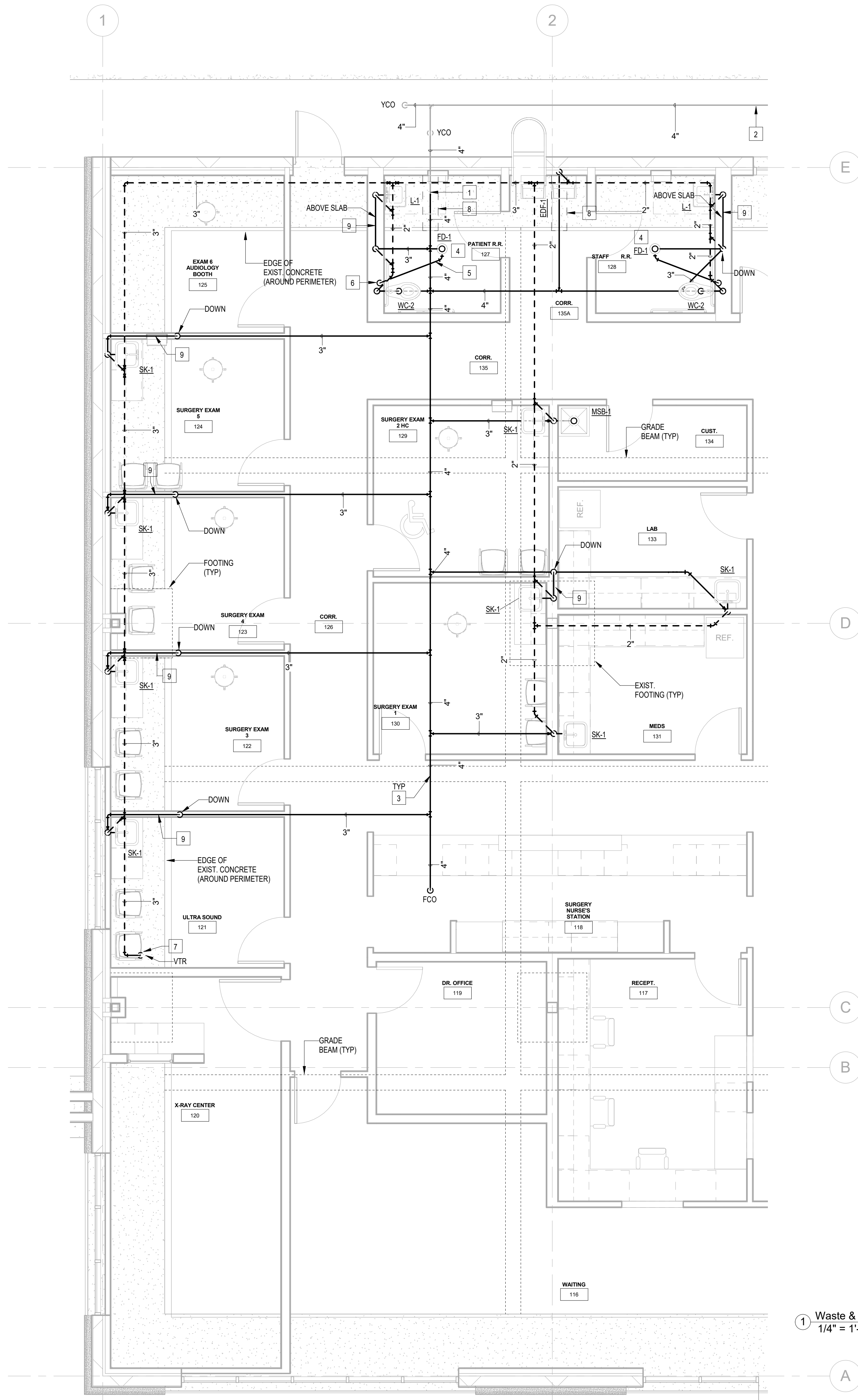


- PLUMBING KEYED NOTES:**
- CLEARANCE FOR ELECTRICAL PANELS. DO NOT ROUTE PIPING OVER THIS AREA. REFER TO ELECTRICAL PLANS FOR EXACT LOCATION OF ELECTRICAL ROOMS.
 - REFER TO MEP SITE PLAN FOR CONTINUATION.
 - SLEEVE ALL GRADE BEAMS, FLOOR SLABS AND MASONRY WALL PENETRATIONS PER DETAIL. WHETHER SPECIFICALLY INDICATED ON PLANS OR NOT.
 - CONNECT NEW 2" DOMESTIC WATER LINE INTO EXISTING 2" DOMESTIC WATER LINE AT THIS APPROXIMATE LOCATION.
 - PROVIDE 1" CLOSED-CELL INSULATION WITH METAL JACKET ON EXPOSED PIPING.
 - PROVIDE PIPING SUPPORT AS PER SPECS AND DETAIL. SEE ASSOCIATED DETAIL ON DETAIL SHEET - TYPICAL.
 - PROVIDE WATER HAMMER ARRESTOR (WHA), MIFAB OR APPROVED EQUAL. INDICATED MODEL (A,B,C,D,E,F) AS PER MIFAB SIZING CHART. PROVIDE 12"x12" ACCESS PANEL WHERE INSTALLED IN AN INACCESSIBLE AREA. ACCESS PANEL EQUAL TO ACUDOR MODEL UF5000 WITH CYLINDER LOCK AND KEY AND PAINT TO MATCH THE WALL/CEILING. (TYPICAL)
 - PROVIDE WALL HYDRANT AS SCHEDULED. PROVIDE CLOSE COUPLED HYDRANT TO ENSURE PIPE TURNS UP INSIDE BLOCK WALL. COORDINATE WALL THICKNESS WITH WALL HYDRANT MANUFACTURER DATA - TYPICAL.
 - PROVIDE BRONZE ISOLATION BALL VALVE ABOVE CEILING OR BEHIND WALL. PROVIDE 12"x12" ACCESS PANEL WHERE INSTALLED IN AN INACCESSIBLE AREA. ACCESS PANEL EQUAL TO ACUDOR MODEL UF5000 WITH CYLINDER LOCK AND KEY AND PAINT TO MATCH THE WALL/CEILING. PROVIDE VALVE IDENTIFICATION TAGS AS PER SPECIFICATIONS. (TYPICAL)
 - INSTALL WATER CLOSET FLUSH VALVE HANDLE TOWARDS WIDE SIDE OF THE ROOM. COORDINATE WITH GENERAL CONTRACTOR.
 - PROVIDE ELECTRIC WATER HEATER AS SCHEDULED.
 - PROVIDE CIRCULATING PUMP CP-1 AS SCHEDULED. REFER TO SCHEDULES SHEET AND DETAILS FOR MORE INFORMATION.
 - PROVIDE ELECTRONIC TRAP PRIMER PPP MODEL MPB500 OR APPROVED EQUAL. TAP FROM TOP OF COLD WATER LINE AND DOWN IN WALL CAVITY TO FD (MULTIPLE FLOOR DRAINS). PROVIDE RECESSED BOX WITH COVER. COPPER DISTRIBUTION UNIT DU-4 WITH FOUR OUTLETS. AND CAP UNUSED OUTLETS. SEE ASSOCIATED DETAIL ON DETAILS SHEET.
 - FIRE SPRINKLER RISER LOCATION. REFER TO SPECIFICATIONS FOR MORE INFORMATION.

KEYPLAN



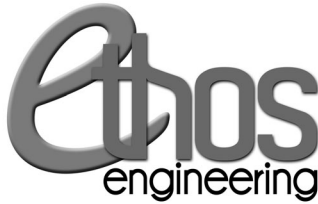
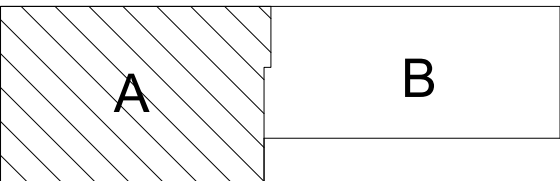
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WASTE & VENT KEYED NOTES:

1. CONNECT NEW 4" SANITARY SEWER PIPING INTO EXISTING 4" SANITARY SEWER PIPING AT THIS APPROXIMATE LOCATION.
2. REFER TO P302 FOR CONTINUATION.
3. SLEEVE ALL GRADE BEAMS, FLOOR SLABS AND MASONRY WALL PENETRATIONS PER DETAIL WHETHER SPECIFICALLY INDICATED ON PLANS OR NOT.
4. PROVIDE FLOOR DRAIN AS SCHEDULED. SET FLUSH WITH FINISHED FLOOR. SEE ASSOCIATED DETAIL ON DETAIL SHEET. (TYPICAL)
5. PROVIDE 1/2" SOFT DRAWN COPPER FROM TRAP-PRIMER. ROUTE PIPING UNDERNEATH THE POLYETHYLENE VAPOR BARRIER. PIPING SHALL NOT BE EMBEDDED IN THE CONCRETE FLOOR SLAB. ENCASE PIPING INSIDE WALL AND UNDER FLOOR SLAB IN POLYETHYLENE SLEEVE. "POLY-SLEEVE" OR EQUAL. (TYPICAL)
6. CONNECT TO FLUSH VALVE TRAP-PRIMER (WC OR UR). SEE ASSOCIATED DETAIL ON DETAIL SHEET. (TYPICAL)
7. PROVIDE 3" VENT PIPING UP TO 3" VENT THRU ROOF AT THIS APPROXIMATE LOCATION.
8. SAWCUT EXISTING SLAB TO ACCOMMODATE NEW SANITARY SEWER PIPING.
9. ROUTE WASTE PIPING ABOVE SLAB, AND INSIDE WALL TO AVOID CONFLICT WITH STRUCTURAL FOUNDATION FOOTING.

KEYPLAN



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1 Waste & Vent Plan - Area-A
1/4" = 1'-0"





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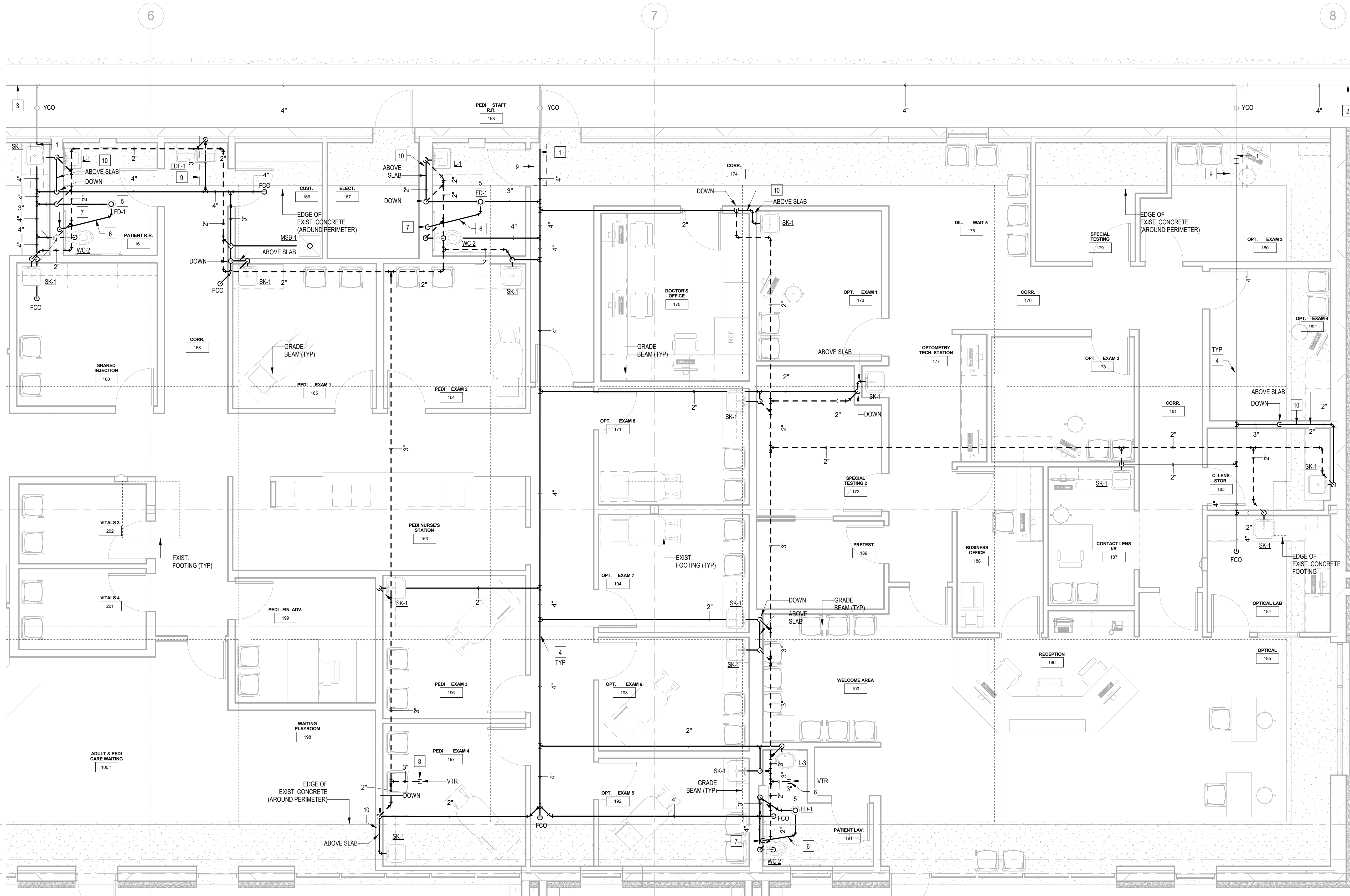
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1 Waste & Vent Plan - Area B
1/4" = 1'-0"

- WASTE & VENT KEYED NOTES:**
1. CONNECT NEW SANITARY SEWER PIPING INTO EXISTING AT THIS APPROXIMATE LOCATION.
 2. REFER TO MEP SITE PLAN FOR CONTINUATION.
 3. REFER TO P302 FOR CONTINUATION.
 4. SLEEVE ALL GRADE BEAMS, FLOOR SLABS AND MASONRY WALL PENETRATIONS PER DETAIL WHETHER SPECIFICALLY INDICATED ON PLANS OR NOT.
 5. PROVIDE FLOOR DRAIN AS SCHEDULED. SET FLUSH WITH FINISHED FLOOR. SEE ASSOCIATED DETAIL ON DETAIL SHEET. (TYPICAL)
 6. PROVIDE 1/2" SOFT DRAWN COPPER FROM TRAP-PRIMER. ROUTE PIPING UNDERNEATH THE POLYETHYLENE VAPOR BARRIER. PIPING SHALL NOT BE EMBEDDED IN THE CONCRETE FLOOR SLAB. ENCASE PIPING INSIDE WALL AND UNDER FLOOR SLAB IN POLYETHYLENE SLEEVE. "POLY-SLEEVE" OR EQUAL. (TYPICAL)
 7. CONNECT TO FLUSH VALVE TRAP-PRIMER (WC OR UR). SEE ASSOCIATED DETAIL ON DETAIL SHEET. (TYPICAL)
 8. PROVIDE 3" VENT PIPING UP TO 3" VENT THRU ROOF AT THIS APPROXIMATE LOCATION.
 9. SAWCUT EXISTING SLAB TO ACCOMMODATE NEW SANITARY SEWER PIPING.
 10. ROUTE WASTE PIPING ABOVE SLAB, AND INSIDE WALL TO AVOID CONFLICT WITH STRUCTURAL FOUNDATION FOOTING.

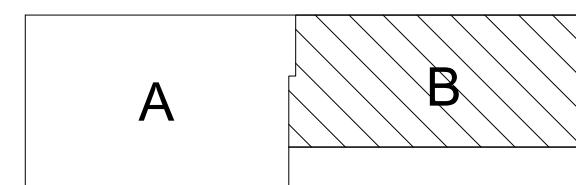
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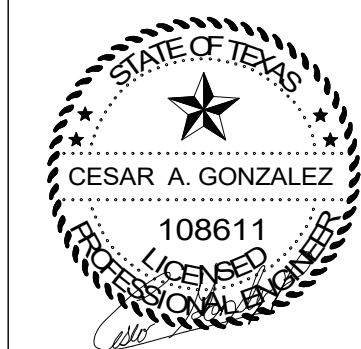
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B

KEYPLAN

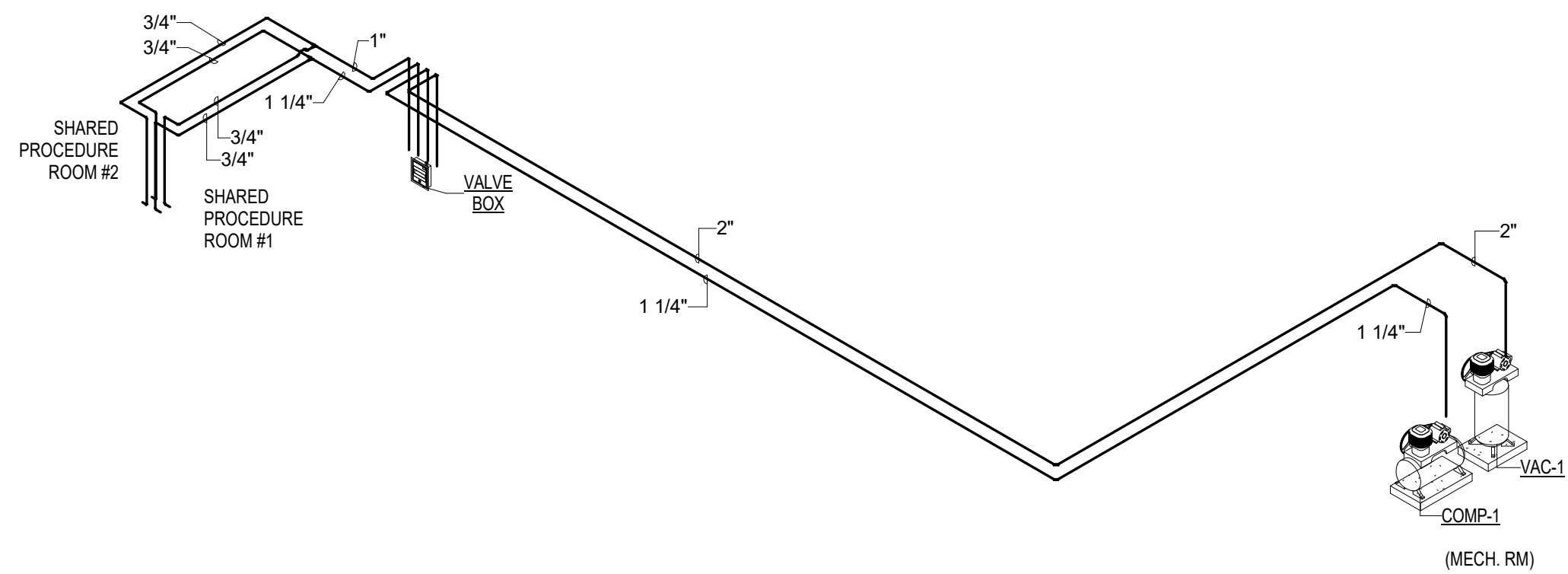


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1 Compressed & Vacuum Air Plan
1/8" = 1'-0"



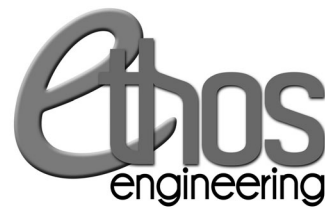
2 Compressed & Vacuum Air Riser Diagram

GENERAL NOTES:

1. MEDICAL AND VACUUM AIR PIPING SYSTEMS SHALL BE INSTALLED, TESTED, AND CERTIFIED PER SPECIFICATIONS.
2. INSTALL COMPRESSED AIR ATTACHED TO STRUCTURE. RUN PIPING IN A AN EFFICIENT MANNER SO THAT FINAL INSTALLATION IS FREE OF OBSTRUCTIONS. PROVIDE SPECIAL ATTENTION TO OVERHEAD COMPRESSED AIR ROUTING.
3. PROVIDE PIPING AS PER SPECIFICATIONS.
4. PIPING SHOWN IS DIAGRAMMATIC IN NATURE. PRIOR INSTALLATION OF PIPING, CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL. SHOP DRAWINGS SHALL INCLUDE EQUIPMENT, VALVES, AND AIR TERMINATION OUTLET DETAILS FOR COORDINATION WITH OWNER.
5. ALL PIPING SHALL BE IDENTIFIED IN ACCORDANCE WITH DIV. 22 SPECIFICATIONS. ALL COMPRESSED AIR PIPING SHALL BE LABELED PER NFPA 99C.
6. COORDINATE OUTLET TYPE, ROUGH-IN HEIGHTS, AND INSTALLATION DETAILS WITH ARCHITECTURAL.

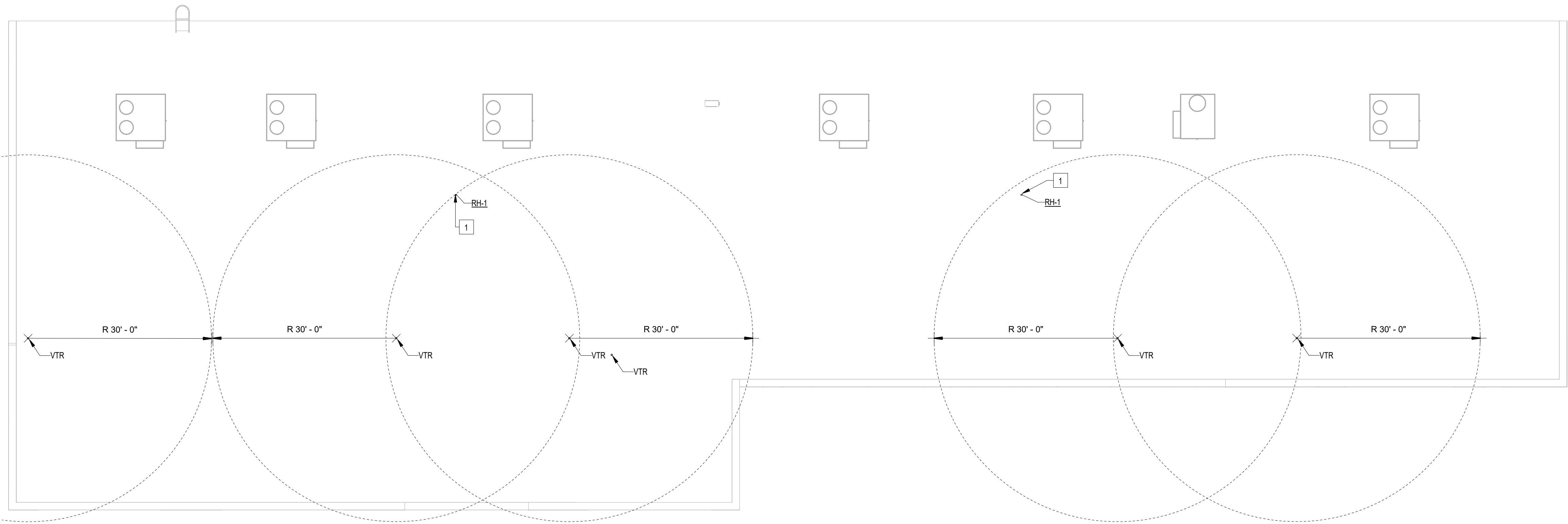
KEYED NOTES:

1. PROVIDE AIR COMPRESSOR (COMP-1) AND VACUUM PUMP (VAC-1) AS SCHEDULED AT THIS APPROXIMATE LOCATION. PROVIDE HOUSEKEEPING CONCRETE PAD. ATTACH EQUIPMENT TO CONCRETE PAD WITH BOLTS AND VIBRATION ISOLATORS. COORDINATE EXACT LOCATION WITH OWNER.
2. PROVIDE COMPRESSED AND VACUUM AIR PIPING AS PER SPECIFICATIONS AND DROP AT DESIGNATED SYSTEM AIR OUTLETS. PROVIDE ANCHORS, BUILDING ATTACHMENTS AND PIPE SUPPORTS AS PER SPECIFICATIONS. CAP PIPING UNTIL FINAL CONNECTIONS ARE MADE TO THE OUTLETS.
3. PROVIDE DOUBLE ZONE VALVE IN RECESSED BOX ASSEMBLY WITH FRAME WINDOW. IN 18 GA STEEL VALVE BOX. PROVIDE 1/4 TURN VALVE. FULL PORT. DOUBLE TEFLON SEALS. BALL TYPE WITH 3 PIECE BRONZE BODY. 600 PSIG WOG OR VACUUM TO 29 HG. COORDINATE EXACT LOCATION AND INSTALLATION WITH GENERAL CONTRACTOR.
4. ACOUSTICAL INSULATION ON WALLS OF MECHANICAL ROOM BY ARCHITECT.



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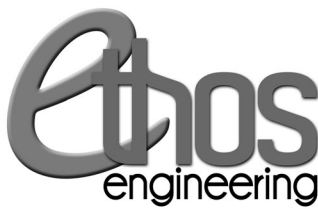




1 Plumbing Roof Plan
3/32" = 1'-0"

PLUMBING KEYED NOTES:

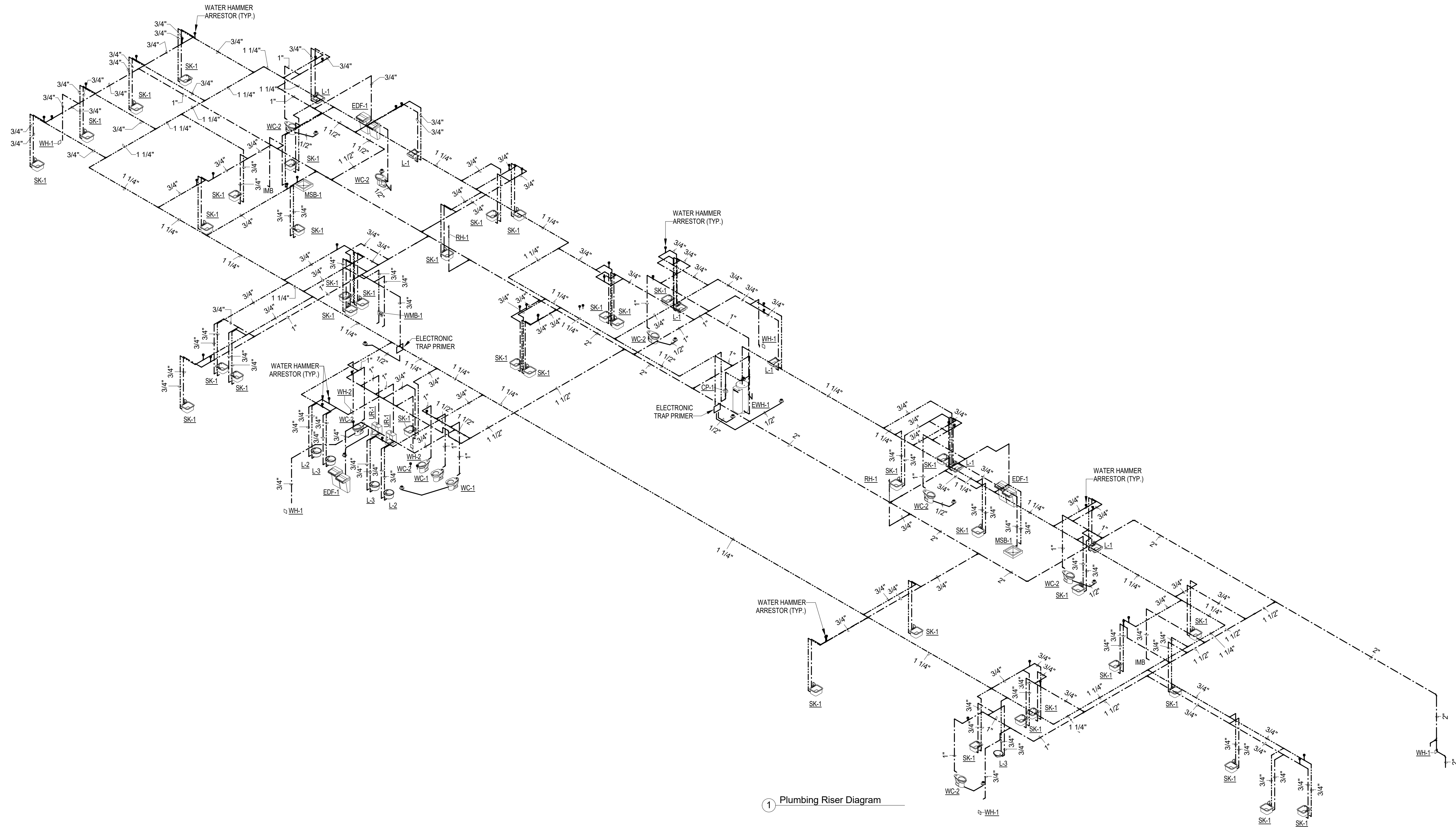
1. PROVIDE ROOF HYDRANT AS SCHEDULED. SEE ASSOCIATED DETAIL ON DETAILS SHEET.



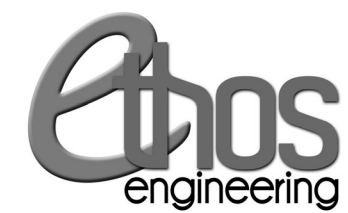
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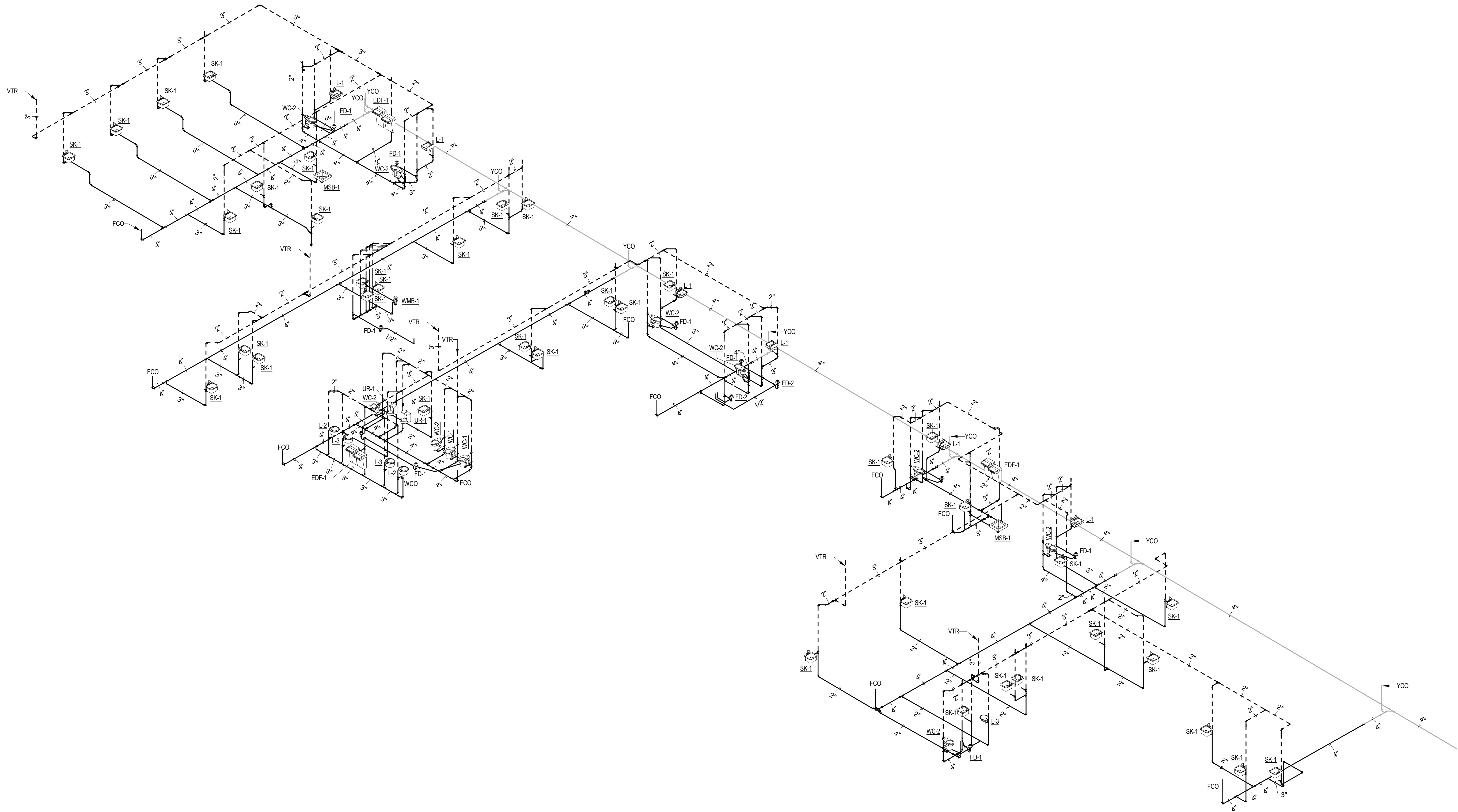
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1 Plumbing Riser Diagram



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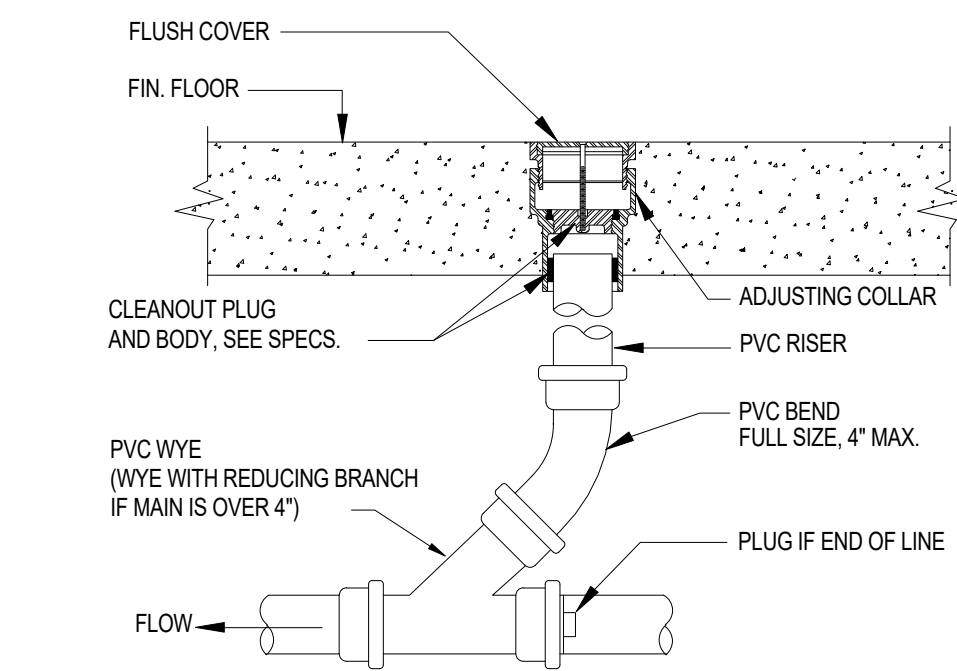
1 Waste & Vent Riser Diagram



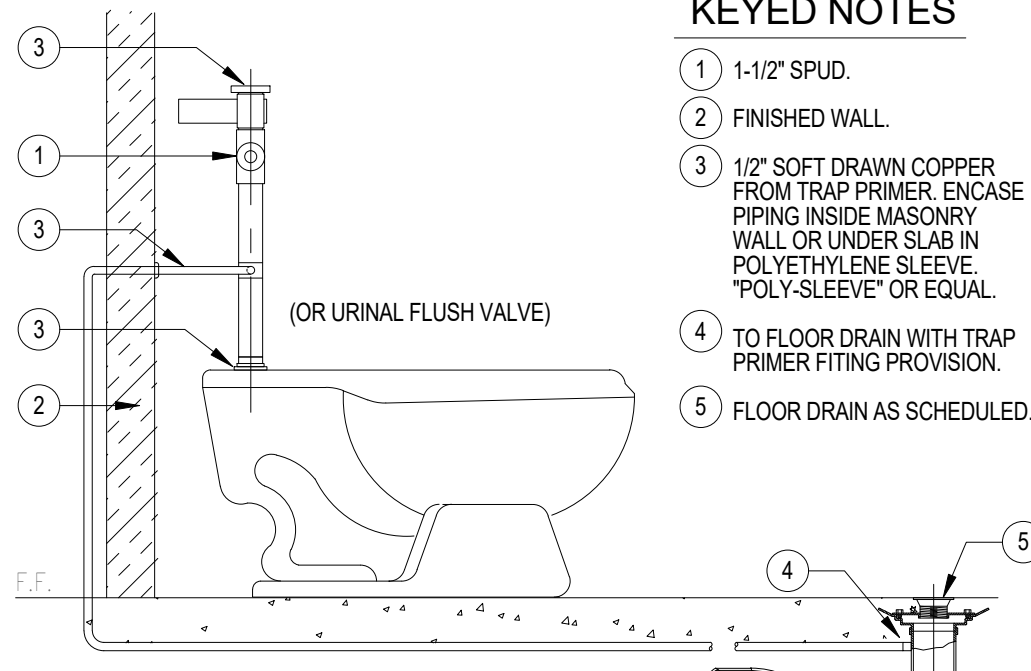
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GENERAL NOTES: (APPLY TO ALL PLUMBING SHEETS)

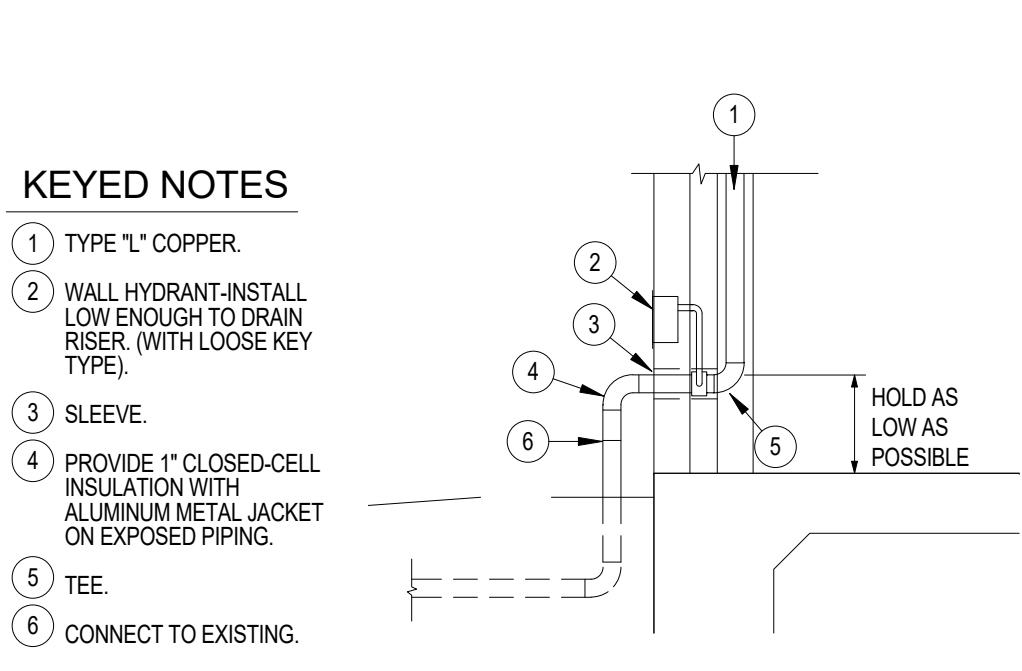
1. ALL PLUMBING WORK SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AS ADAPTED AND AMENDED BY THE INSPECTING AUTHORITIES.
2. DRAWING IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.
3. ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID CONFLICT WITH THE WORK OF OTHER TRADES. COORDINATE WITH MECHANICAL, ELECTRICAL AND STRUCTURAL FOR PROPER CLEARANCES.
4. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASING AND SEQUENCE OF CONSTRUCTION WORK.
5. COORDINATE WORK AMONG ALL DISCIPLINES. IT IS NOT THE INTENT OF THESE DOCUMENTS TO DICTATE WHO MUST DO THE WORK. ALL WORK SHOWN IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR.
6. SLEEVE ALL OUTSIDE WALLS, FOUNDATION GRADE BEAMS, INTERIOR WALL PENETRATIONS, AND FIRE SEAL ALL PENETRATION THROUGH FIRE WALLS AND FLOORS WHETHER SHOWN ON PLANS OR NOT.
7. PROVIDE MINIMUM 15' OF SEPARATION BETWEEN HVAC INTAKES AND VENT THRU ROOFS.
8. RECORD INVERT ELEVATIONS OF ALL YARD CLEAN OUT (YCO) ON "AS-BUILT" DRAWINGS.
9. PROVIDE SHUT-OFF VALVES (STOPS) ON ALL ROUGH-INS TO FIXTURES AND EQUIPMENTS.
10. PROVIDE WATER HAMMER ARRESTORS AS INDICATED ON THE DRAWINGS. AIR CHAMBERS NOT AN APPROVED SUBSTITUTE.
11. PROVIDE ANY BACKFLOW PREVENTION DEVICE REQUIRED BY CODE OR LOCAL AUTHORITIES. CONTRACTOR SHALL VERIFY THIS WITH CITY AND LOCAL AGENCIES AND INCLUDE COST IN BID. CONTRACTOR TO HAVE BACK FLOWS CERTIFIED.
12. REFER TO PLUMBING FIXTURE ROUGH-IN SCHEDULE FOR INDIVIDUAL PIPE CONNECTIONS TO FIXTURES.
13. PRIOR TO POURING FOUNDATION AND ERECTING WALLS, COORDINATE INSTALLATION OF PLUMBING FIXTURE CARRIERS WITH GENERAL CONTRACTOR.
14. METAL STUDS AT DRY WALLS SHALL NOT BE CUT THRU HORIZONTAL DIRECTION. COORDINATE WITH DRY WALL CONTRACTOR.



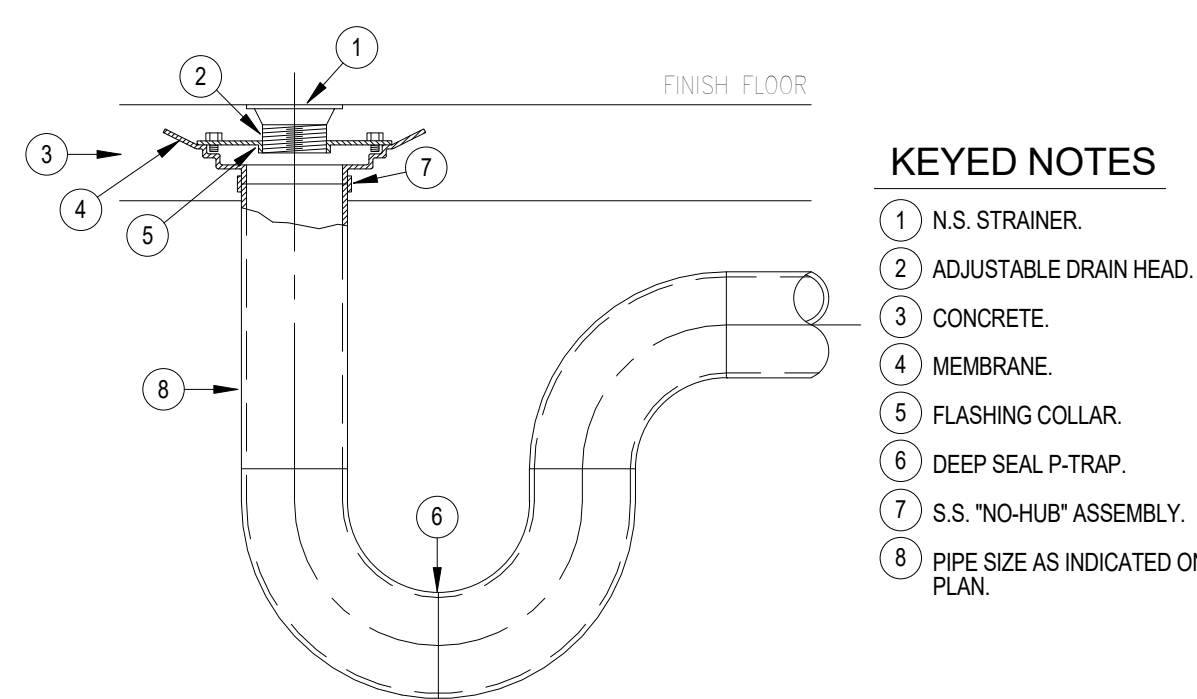
01 FLOOR CLEANOUT DETAIL
SCALE : NOT TO SCALE



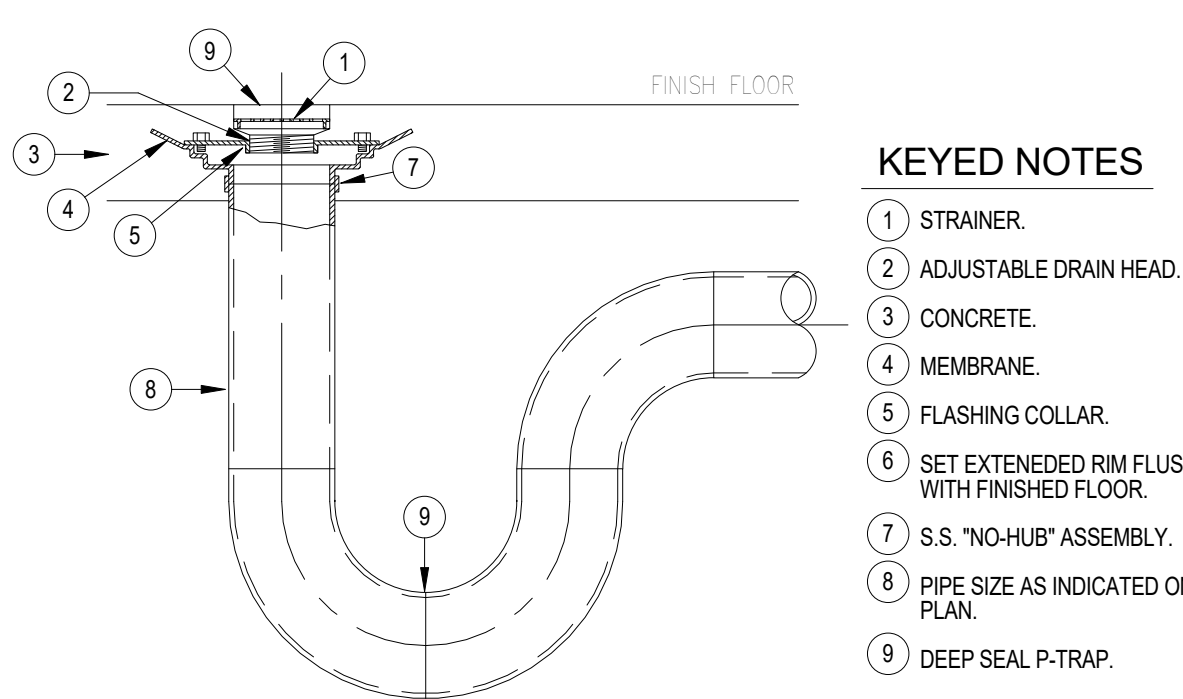
02 FLUSH VALVE TRAP PRIMER DETAIL
SCALE : NOT TO SCALE



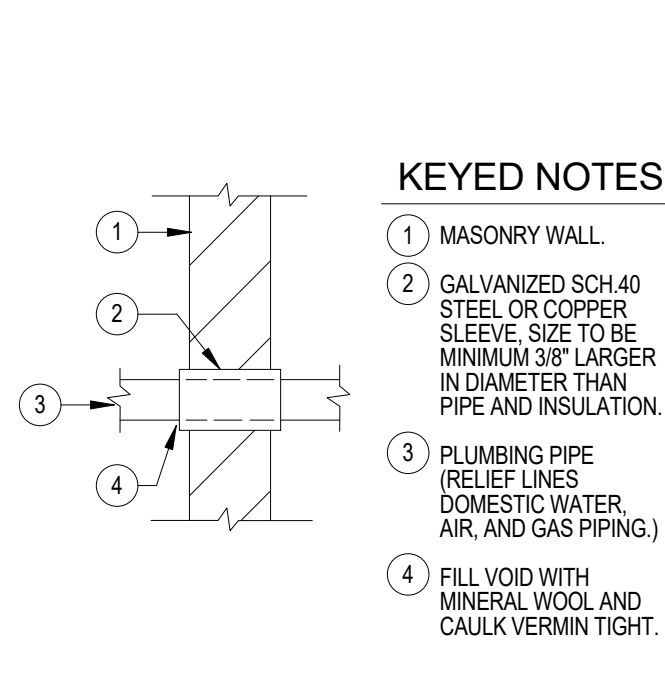
03 WATER ENTRANCE DETAIL
SCALE : NOT TO SCALE



04 FD-1 FLOOR DRAIN DETAIL
SCALE : NOT TO SCALE



05 FD-2 FLOOR DRAIN DETAIL
SCALE : NOT TO SCALE



06 WALL SLEEVE DETAIL
SCALE : NOT TO SCALE

| COMPRESSOR SCHEDULE | | | | | | | | |
|---------------------|----------------|-----------------|-------------|--------------|-------------|---------------|-------------|-------------|
| MARK | TYPE | CFM AT 100 PSIG | TANK (GAL.) | MAX PRESSURE | dB(A) Level | MIN. MOTOR HP | ELECT. V/PH | KEYED NOTES |
| COMP-1 | AIR COMPRESSOR | 8.8 | 60 | 116 | 70 | 3 | 460/3/60 | ALL |

NOTES:

- PROVIDE HOUSEKEEPING CONCRETE PAD.
- MEANS OF DISCONNECT TO BE PROVIDED BY DIV.26. COORDINATE WITH ELECTRICAL.
- PROVIDE CONTROL PANEL WITH MOTOR STARTER. REFER TO SPECIFICATIONS FOR MORE INFORMATION.

PROVIDE REFRIGERANT AIR DRYER WITH 0.01 MICRON AFTER FILTER, PRESSURE REGULATOR AND AUTOMATIC TIMER DRAIN.

| VACUUM COMPRESSOR SCHEDULE | | | | | | | |
|----------------------------|---------------|----------------|-------------|-------------|---------------|-------------|-------------|
| MARK | TYPE | CFM AT 19\"Hg. | TANK (GAL.) | dB(A) Level | MIN. MOTOR HP | ELECT. V/PH | KEYED NOTES |
| VAC-1 | VACUUM SYSTEM | 17 | 80 | 70 | 3 | 460/3/60 | ALL |

NOTES:

- PROVIDE HOUSEKEEPING CONCRETE PAD.
- MEANS OF DISCONNECT TO BE PROVIDED BY DIV.26. COORDINATE WITH ELECTRICAL.
- PROVIDE CONTROL PANEL WITH MOTOR STARTER. REFER TO SPECIFICATIONS FOR MORE INFORMATION.

| PLUMBING SYMBOLS LEGEND | | | |
|-------------------------|--------------------------------------|----------|------------------------------|
| --- | COLD WATER SUPPLY | WCO --- | WALL CLEANOUT |
| --- | HOT WATER SUPPLY | --- | *GATE VALVE (GV) |
| --- | SOIL & WASTE LINE - ENLARGED PLANS | --- | *BALL VALVE |
| --- | VENT LINE - ENLARGED PLANS | --- | VALVE IN RISER TYPE AS NOTED |
| FCO | FLOOR CLEANOUT | WC | WATER CLOSET |
| FCO-2 | FLOOR CLEANOUT - 2 WAY | UR | URINAL |
| FD | FLOOR DRAIN (FD) WITH DEEP SEAL TRAP | L | LAVATORY |
| HDOC | HUB DRAIN WITH DEEP SEAL TRAP | SK | SINK |
| --- | FLOOR SINK | EDF | ELECTRIC DRINKING FOUNTAIN |
| YCO | YARD CLEANOUT | MSB | MOP SERVICE BASIN |
| YCO-2 | YARD CLEANOUT - 2 WAY | TP | TRAP PRIMER |
| WH | WALL HYDRANT | EVH | ELECTRIC WATER HEATER |
| --- | TRAP PRIMER | VTR | VENT THRU ROOF |
| --- | *WATER HAMMER | A.F.F. | ABOVE FINISH FLOOR |

* PROVIDE 12"x12" ACCESS PANEL WHERE INSTALLED IN AN INACCESSIBLE AREA.

| MARK | MANUFACTURER & MODEL NUMBER | DESCRIPTION | CONNECTIONS | | | | NOTES | REMARKS |
|-------|--|--|--------------|------|------|------|-------|------------------------|
| | | | WASTE | VENT | CW | HW | | |
| WC-1 | AMERICAN STD. 3451.001 SLOAN ROYAL #111-1.28 SEAT 5901.100 | 15" HIGH LOW CONSUMPTION FLUSH VALVE. WHITE VITREOUS CHINA WATER CLOSET WITH ELONGATED SIPHON JET ACTION BOWL. 1.28GPF TOP FLUSH VALVE. WHITE OPEN FRONT SEAT LESS COVER AND BOLT CAPS FOR ADULT STANDARD MOUNTING. | 4" | 2" | 1" | - | 1,3 | 15" TO TOP OF RIM |
| WC-2 | AMERICAN STD. 3461.001 SLOAN ROYAL #111-1.28 SEAT 5901.100 | 16-1/2" HIGH LOW CONSUMPTION FLUSH VALVE. WHITE VITREOUS CHINA WATER CLOSET WITH ELONGATED SIPHON JET ACTION BOWL. 1.28GPF TOP FLUSH VALVE. WHITE OPEN FRONT SEAT LESS COVER AND BOLT CAPS FOR ADULT ADA MOUNTING. | 4" | 2" | 1" | - | 1,2,3 | 17"-19" TO TOP OF SEAT |
| UR-1 | AMERICAN STD. 6590.001 SLOAN ROYAL #186-0.5 ZURN # Z1222 CARRIER | WALL MOUNTED FLUSH VALVE. WHITE VITREOUS CHINA LOW CONSUMPTION 0.5 GPF URINAL WITH 14" DEEP BOWL. 3/4" TOP SPOUT FLUSH VALVE AND CARRIER FOR ADULT ADA MOUNTING | 3" | 2" | 3/4" | - | 2,3 | 17" TO RIM OF BASIN |
| L-1 | KOHLER K1729-0 MOEN #8413 - FAUCET ZURN #Z1231 CARRIER 17 GA. DRAIN AND 17 GA. P-TRAP W/CLEAN OUT TRUEBRO KIT LEONARD #270-LF-BRKT-BV 0.5GPM AERATOR | 19" X 17" WALL MOUNTED WHITE VITREOUS CHINA LAVATORY WITH FRONT OVERFLOW AND CONCEALED ARMS SUPPORT. HOLES 4" ON CENTER FOR SINGLE LEVER FAUCET. THERMOSTATIC POINT OF USE MIXING VALVE. SET AT NO MORE THAN 110 DEGREES. WITH WALL MOUNTED BRACKET CHROME PLATED SUPPLY STOPS WITH STAINLESS STEEL FLEXIBLE CONNECTORS. CHROME PLATED DRAIN GRID, TAILPIECE. AND CARRIER FOR ADULT ADA MOUNTING | 2" | 2" | 3/4" | 3/4" | 4 | 34" FROM FLOOR TO RIM |
| L-2 | KOHLER K2196-4-0 MOEN #8413 - FAUCET 17 GA. DRAIN AND 17 GA. P-TRAP W/CLEAN OUT TRUEBRO KIT LEONARD #270-LF-BRKT-BV 0.5GPM AERATOR | 20-1/4" X 17-1/2" OVAL, DROP-IN, WHITE VITREOUS CHINA LAVATORY WITH FRONT OVERFLOW, HOLES 4" ON CENTER FOR SINGLE LEVER FAUCET. THERMOSTATIC POINT OF USE MIXING VALVE. SET AT NO MORE THAN 110 DEGREES. WITH WALL MOUNTED BRACKET CHROME PLATED SUPPLY STOPS WITH STAINLESS STEEL FLEXIBLE CONNECTORS. CHROME PLATED DRAIN GRID, TAILPIECE. AND CARRIER FOR ADULT STANDARD MOUNTING | 2" | 2" | 3/4" | 3/4" | 4 | 34" FROM FLOOR TO RIM |
| L-3 | KOHLER K2196-4-0 MOEN #8413 - FAUCET 17 GA. DRAIN AND 17 GA. P-TRAP W/CLEAN OUT TRUEBRO KIT LEONARD #270-LF-BRKT-BV 0.5GPM AERATOR | 20-1/4" X 17-1/2" OVAL, DROP-IN, WHITE VITREOUS CHINA LAVATORY WITH FRONT OVERFLOW, HOLES 4" ON CENTER FOR SINGLE LEVER FAUCET. THERMOSTATIC POINT OF USE MIXING VALVE. SET AT NO MORE THAN 110 DEGREES. WITH WALL MOUNTED BRACKET CHROME PLATED SUPPLY STOPS WITH STAINLESS STEEL FLEXIBLE CONNECTORS. CHROME PLATED DRAIN GRID, TAILPIECE. AND CARRIER FOR ADULT STANDARD MOUNTING | 2" | 2" | 3/4" | 3/4" | 4 | 34" FROM FLOOR TO RIM |
| SK-1 | ELKAY LRAD-1919-60 SINK MOEN 4903 FAUCET LK-335 DRAIN LEONARD # 270-LF-BRKT-BV 0.5GPM AERATOR | 19" x 19" SINGLE COMPARTMENT. 18 GAUGE TYPE 302 STAINLESS STEEL. SELF-RIMMING SINK WITH 6" DEEP BOWL. FULLY COATED UNDERSIDE. TWO HANDLE DECK MOUNT GOOSE NECK FAUCET. 3.5" DRAIN WITH CUP STRAINER. 1-1/2" 17 GAUGE CHROME PLATED TAILPIECE AND P-TRAP WITH CLEANOUT AND CHROME PLATED SUPPLY STOPS WITH STAINLESS STEEL FLEXIBLE CONNECTORS AND POINT-OF-USE THERMOSTATIC VALVE. | 2" | 2" | 3/4" | 3/4" | 4 | SEE ARCHITECTURAL |
| EDF-1 | ELKAY LYRCTLBWSK LKAPREZL APRON ZURN Z-1225 CARRIER 51300C-3PK FILTERS | BOTTLE FILLING STATION WITH BILEVEL FILTERED ELECTRIC DRINKING FOUNTAIN, PUSHBUTTON CONTROLS. 8.0 GPH, FLEXI GUARD SAFETY BUBBLERS. PVC P-TRAP, APRON AND CARRIER. BOTTLE FILLING UNIT SHALL HAVE AUTOMATIC SHUT-OFF TIMER. PROVIDE 3 REPLACEMENT FILTERS. FOR ADULT STANDARD & ADA MOUNTING. OUTDOOR RATED, VANDAL RESISTANT. | 2" | 2" | 3/4" | - | | SEE ARCHITECTURAL |
| MSB-1 | FIAT TSB 3002 MOP BASIN # 832-AA HOSE & BRACKET # 830-AA FAUCET # 889-CC MOP BRACKET # MSG 3636 WALL GUARD # 1453-BB STRAINER | 36X36X12 PRECAST TERRAZO MOP SERVICE BASIN WITH HOSE AND HOSE BRACKET, FAUCET, MOP BRACKET, WALL GUARD AND STRAINER. | 3" | 2" | 3/4" | 3/4" | | |
| FD-1 | ZURN # ZN415B-P | BODY ASSEMBLY WITH TYPE B STRAINER. DURA COATED CAST IRON BODY WITH BOTTOM OUTLET INVERTED MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH TRAP PRIMER CONNECTION. | 3" | 2" | - | - | | |
| FD-2 | ZURN # ZN415I | BODY ASSEMBLY WITH TYPE I STRAINER. DURA COATED CAST IRON BODY WITH BOTTOM OUTLET INVERTED MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH TRAP PRIMER CONNECTION. | 3" | 2" | - | - | | |
| RH-1 | JAY R. SMITH 5906 | NON-FREEZE ROOF HYDRANT WITH GALV. CASING AND ADJUSTABLE FLOW WHEEL LOCK HANDLE WITH DECK FLANGE AND UNDER DECK CLAMP. | - | - | 3/4" | - | | |
| WH-1 | ZURN # Z1300-SS-34UN HYDRANT | ENCASED NON-FREEZE ANTI-SIPHON WALL HYDRANT. BRONZE, NON-TURNING OPERATING ROD STOP VALVE IN SUPPLY. KEY OPERATED CONTROL VALVE. STAINLESS STEEL BOX WITH HINGED COVER. | - | - | 3/4" | - | | |
| WH-2 | ZURN # Z1350 HYDRANT | ENCASED MODERATE CLIMATE WALL HYDRANT FOR NARROW WALL. CHROME. SCREWDRIVER OPERATED STOP VALVE IN SUPPLY. KEY OPERATED CONTROL. STAINLESS STEEL BOX WITH HINGED COVER. | - | - | 3/4" | - | | |
| IMB | GUY GRAY BIM875 | VALVE. STAINLESS STEEL BOX WITH HINGED COVER GALVANIZED STEEL ICE MACHINE BOX. FURNISHED WITH 1/2" FIP INLET X 1/4" OD OUTLET COMPRESSION ANGLE VALVE. | - | - | 3/4" | - | | |
| WMB | GUY GRAY B200 | GALVANIZED STEEL WASHING MACHINE BOX. FURNISHED WITH QUARTER TURN BALL VALVE AND TWO 1/2" MIPISWEAT CONNECTION VALVE AND A 1-1/2" OR 2" THREADED DRAIN FITTING & LOCKNUT. | 1-1/2" OR 2" | - | 3/4" | 3/4" | | |

- NOTES:
- INSTALL FLUSH VALVE ON THE WIDE SIDE OF STALL.
 - PROVIDE ADA APPROVED FLUSH VALVE HANDLE FOR ALL ADA PLUMBING FIXTURES.
 - REFER TO PLUMBING PLAN FOR FIXTURES THAT WILL REQUIRE TRAP PRIMER CONNECTIONS.
 - PROVIDE TRUEBRO LAVATORY GUARD MODEL #103 COLOR WHITE. COVER SHALL BE SECURED WITH SNAP-SUP FLUSH REUSABLE FASTENERS. ANGLE STOPS SHALL HAVE LOCK-UP LOCKING ACCESS COVERS.

| ELECTRIC WATER HEATER SCHEDULE | | | | | | | | |
|--------------------------------|-----------|-----------------|----|--------------------|------------------------------|-------------|----------------------|-------|
| MARK | LOCATION | GALLON CAPACITY | KW | NUMBER OF ELEMENTS | RECOVERY IN GPH AT 100F RISE | ELECT. V/PH | MANUFACTURER & MODEL | NOTES |
| EWH-1 | SEE PLANS | 50 | 12 | 3 | 49 | 208/3/60 | A.O. SMITH DRE-52-12 | ALL |

NOTES:

- MANUFACTURER & MODEL NUMBER ARE "OR APPROVED EQUAL".
- PROVIDE IMMERSION TYPE THERMOSTAT.
- PROVIDE EXPANSION TANK.

| CIRCULATING PUMP SCHEDULE | | | | | | | | | | | | |
|---------------------------|------------------|--------|----------|-----|------------|---------|------|------------------|---------------------|---------------|--------------|------------------------|
| MARK | TYPE | SERVES | LOCATION | GPM | HEAD FT WG | MIN. HP | RPM | CONN. SIZE (IN.) | IMPELLER DIA. (IN.) | ELEC. V-PH-HZ | WEIGHT (LBS) | MANUFACTURER AND MODEL |
| CP-1 | CIRCULATING PUMP | EWH-1 | SEE PLAN | 5 | 20 | 1/12 | 3300 | 3/4 | 3 | 120-1-60 | 13 | BELL & GOSSETT PL-30B |

NOTES:

- PROVIDE BRONZE BOOSTER BODY.
- PUMP SHALL BE OPERATED AND CONTROLLED THRU DDC PANEL AND THRU AQUASTAT. PROVIDE DDC START/STOP POINTS. REFER TO SEQUENCES OF OPERATIONS.
- REFER TO DETAIL SHEET FOR MORE INFORMATION.
- GRUNDFOS IS AN APPROVED MANUFACTURER FOR CIRCULATING PUMPS.



119 W. VAN BUREN AVE. STE. 101
PHONE: 956-230-3435
TEXAS REGISTERED
ENGINEERING FIRM
F-15998

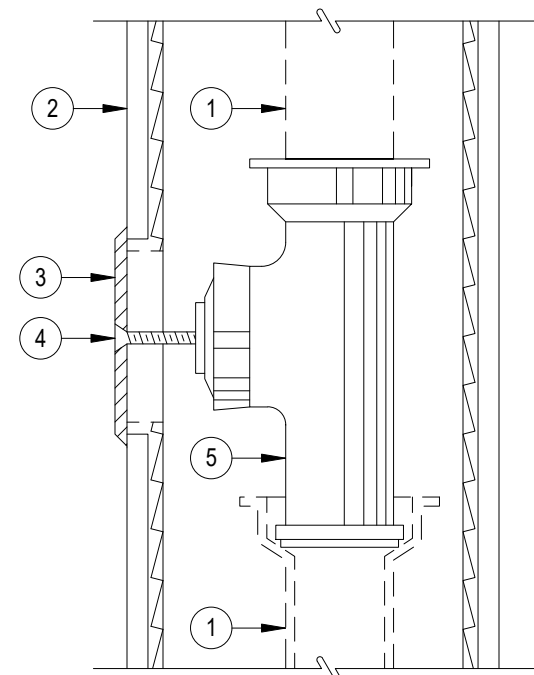


Project # 18v15
Owner
UTRGV - SCHOOL OF MEDICINE - JACKSON RD.
Enter address here

Issue Date 10/31/2018

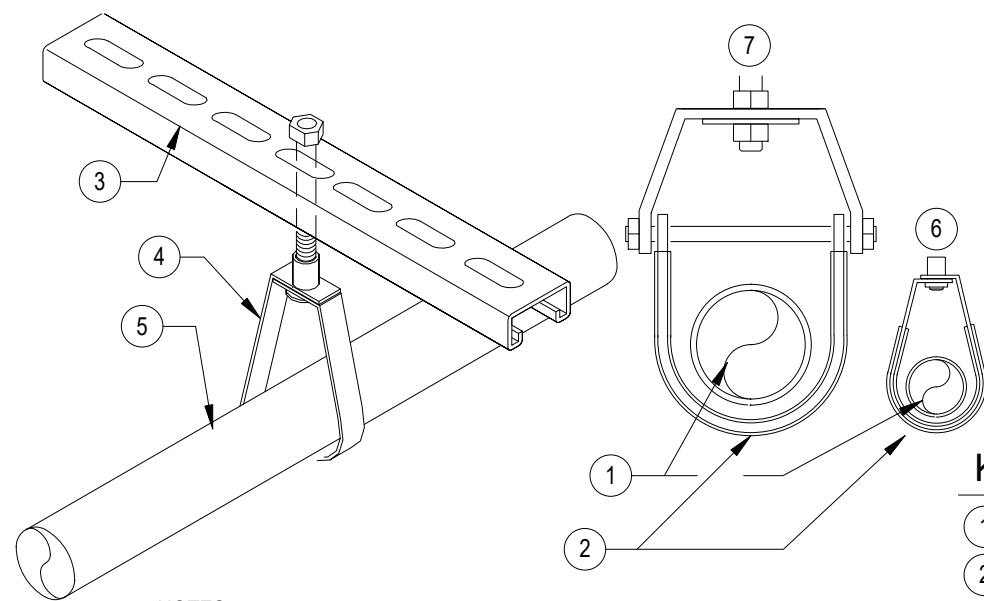
Plumbing
Schedules &
Details

P7.01



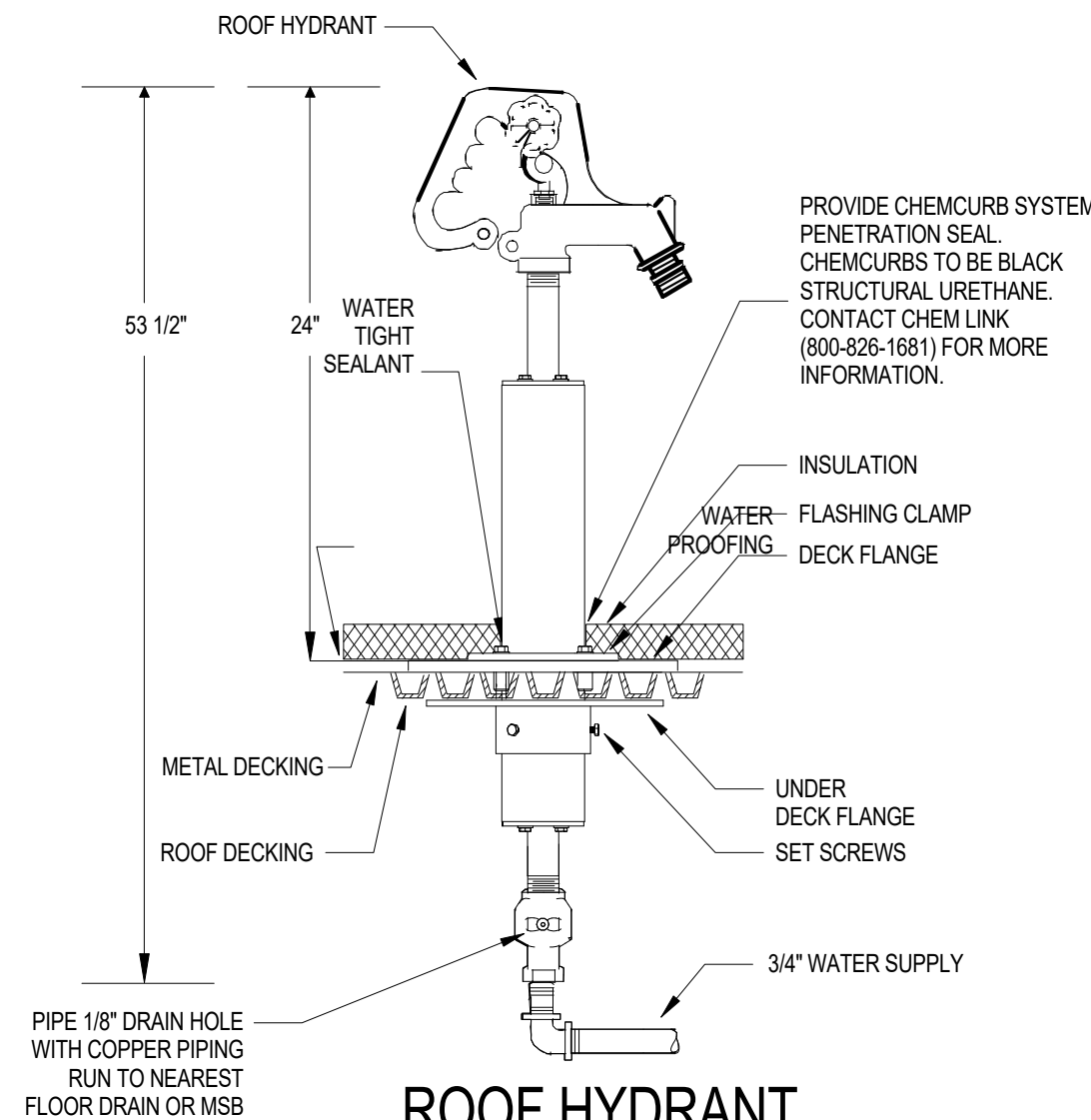
- KEYED NOTES**
- 1 PIPE SIZE AS INDICATED ON PLAN.
 - 2 WALL.
 - 3 S.S. SMOOTH ACCESS COVER.
 - 4 SECURING SCREW.
 - 5 NEW CLEANOUT.

01 WALL CLEANOUT DETAIL
SCALE : NOT TO SCALE

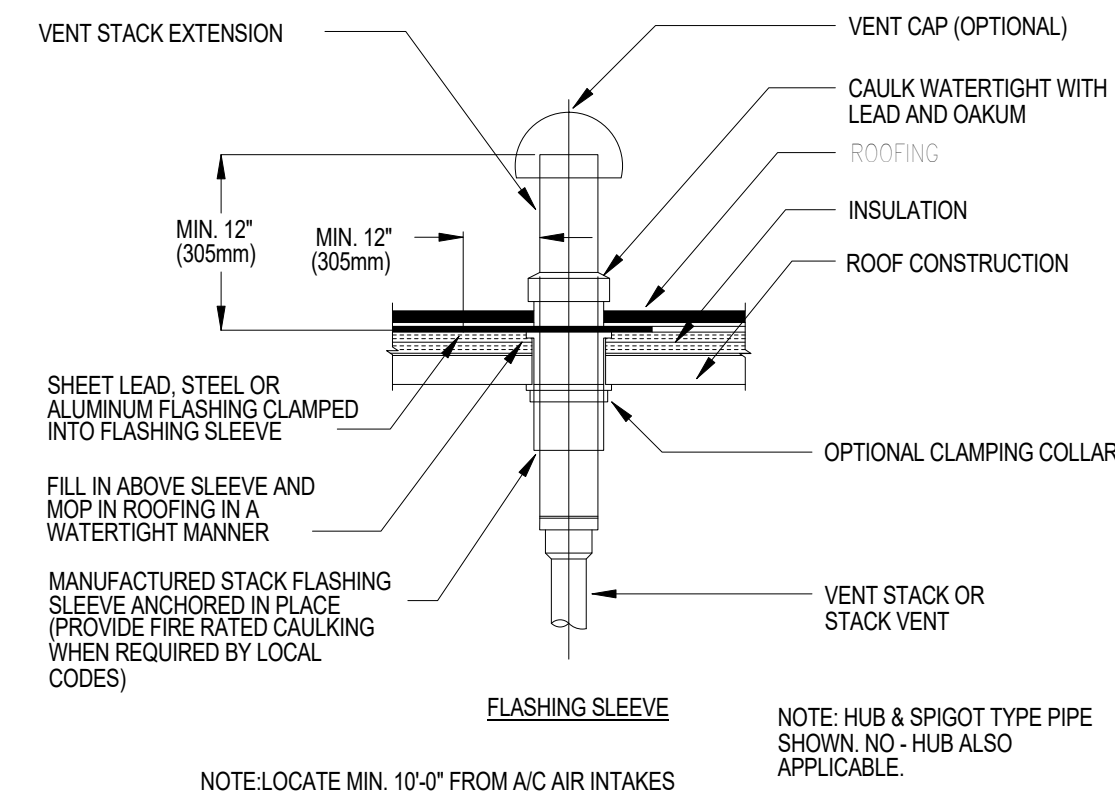


- KEYED NOTES**
- 1 SCHEDULED PIPE.
 - 2 PLASTIC COATING.
 - 3 UNI-STRUT.
 - 4 PIPE HANGER.
 - 5 DOMESTIC WATER LINE, COPPER DRAIN LINE FROM AHUS.
 - 6 BAND HANGER.
 - 7 CLEVIS HANGER.

02 DOMESTIC WATER LINE PIPING SUPPORT DETAIL
SCALE : NOT TO SCALE

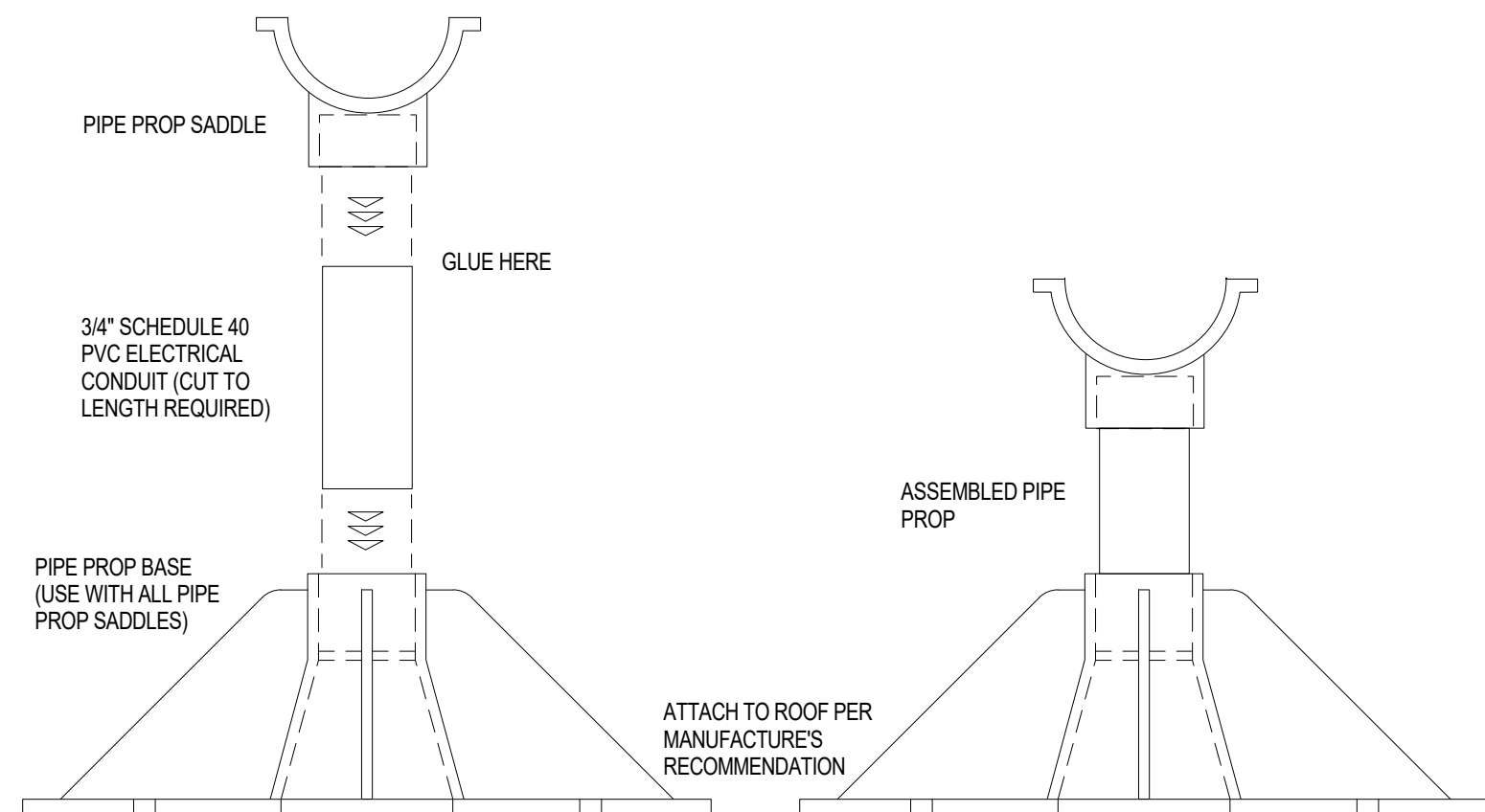


03 ROOF HYDRANT DETAIL
SCALE : NOT TO SCALE

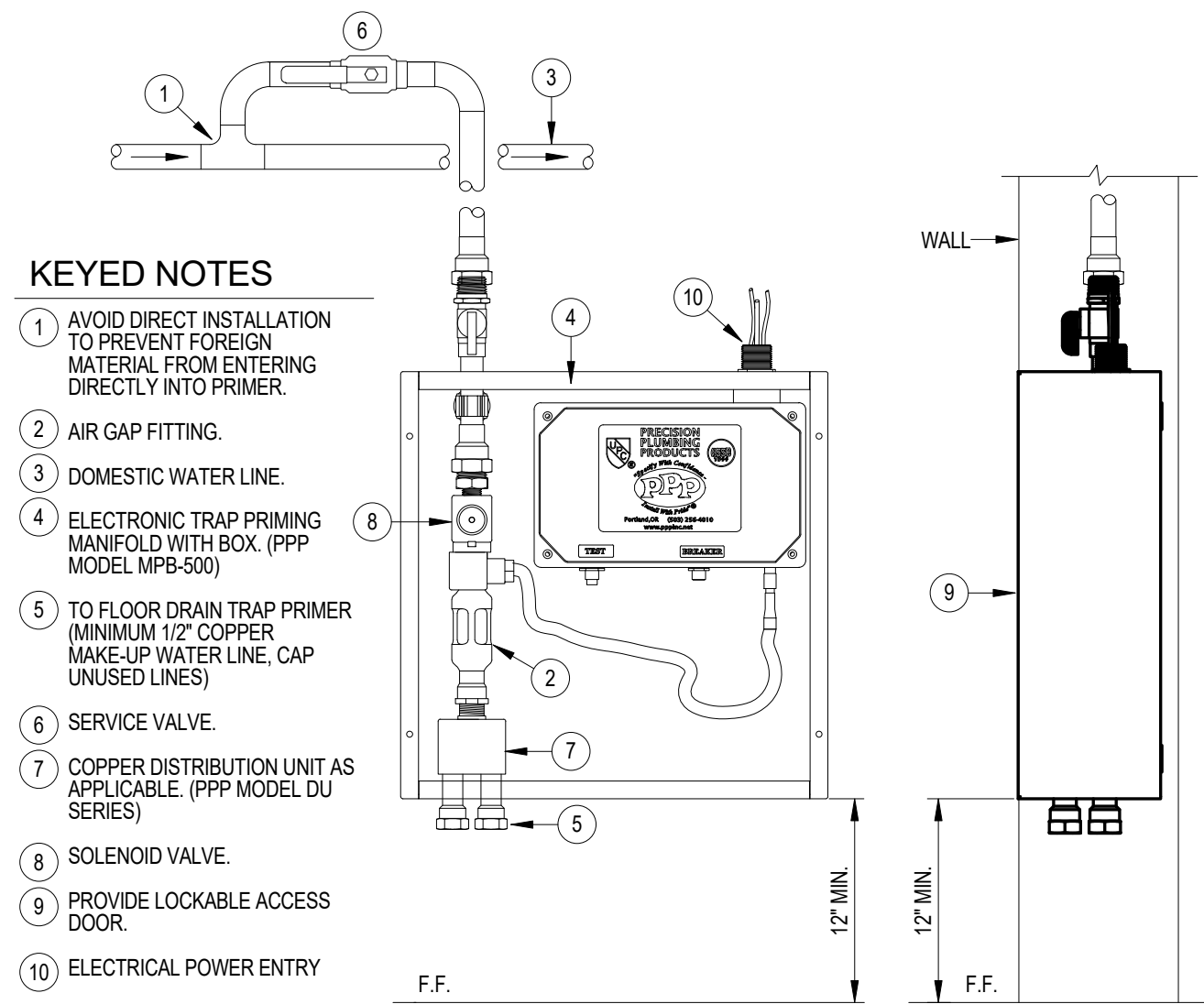


- NOTES:**
1. POWER TO PUMP TO BE CONTROLLED BY DDC PANEL. PROVIDE DDC START/STOP POINTS. REFER TO SEQUENCES OF OPERATIONS.
 2. LINE VOLTAGE AQUASTAT CONTROLLER FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR. CONNECTED BY ELECTRICAL CONTRACTOR. AQUASTAT CLOSSES WHEN STORAGE TANK WATER TEMPERATURE DROPS BELOW 120°F (ADJ.).
 3. CIRCULATING PUMP FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR. CONNECTED BY DIV. 26.

04 VENT THRU ROOF DETAIL
SCALE : NOT TO SCALE

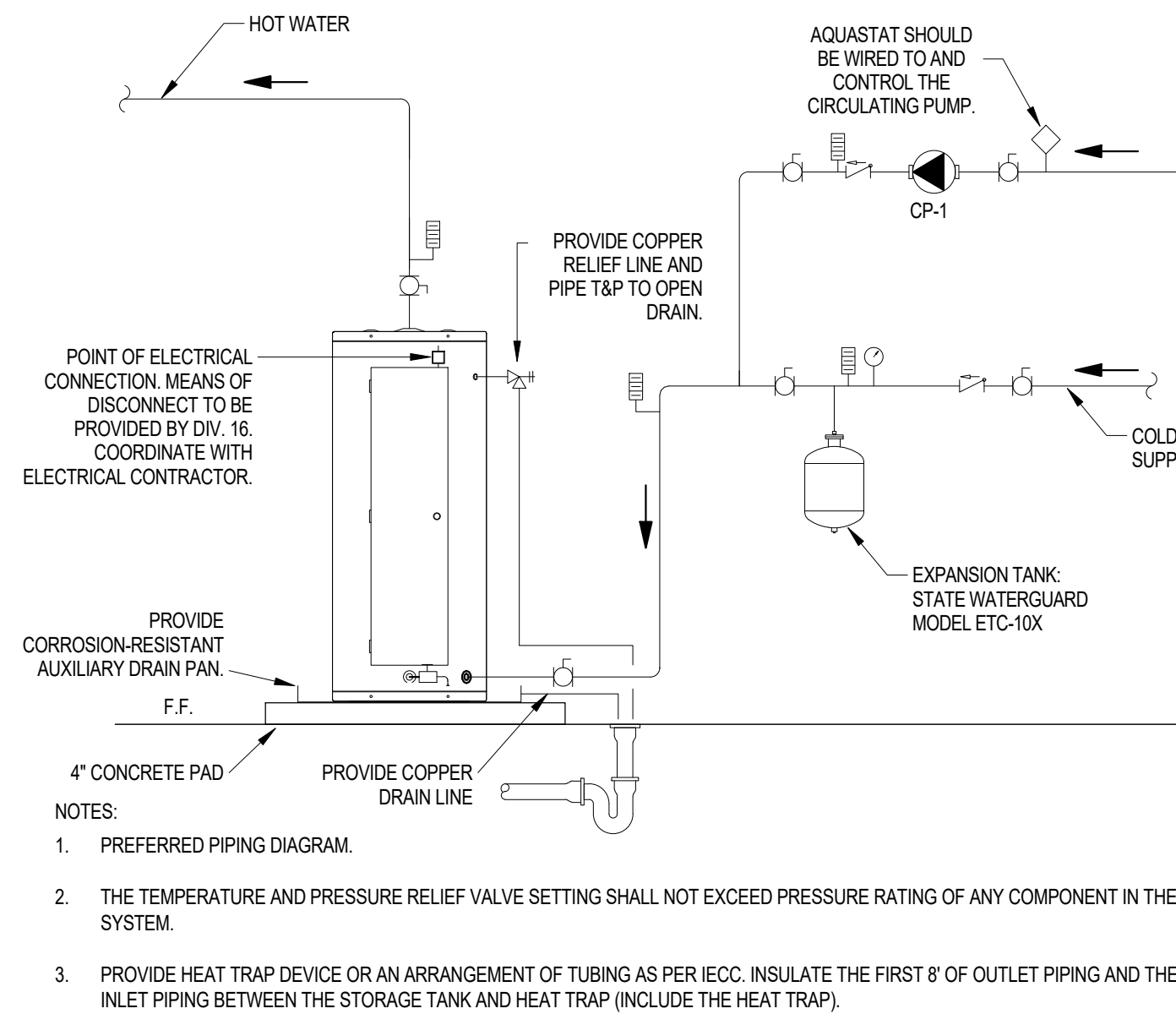


05 PIPING ROOF SUPPORT DETAIL
SCALE : NOT TO SCALE



- KEYED NOTES**
- 1 AVOID DIRECT INSTALLATION TO PREVENT FOREIGN MATERIAL FROM ENTERING DIRECTLY INTO PRIMER.
 - 2 AIR GAP FITTING.
 - 3 DOMESTIC WATER LINE.
 - 4 ELECTRONIC TRAP PRIMING MANIFOLD WITH BOX. (PPP MODEL MPB-500)
 - 5 TO FLOOR DRAIN TRAP PRIMER (MINIMUM 1/2\"/>

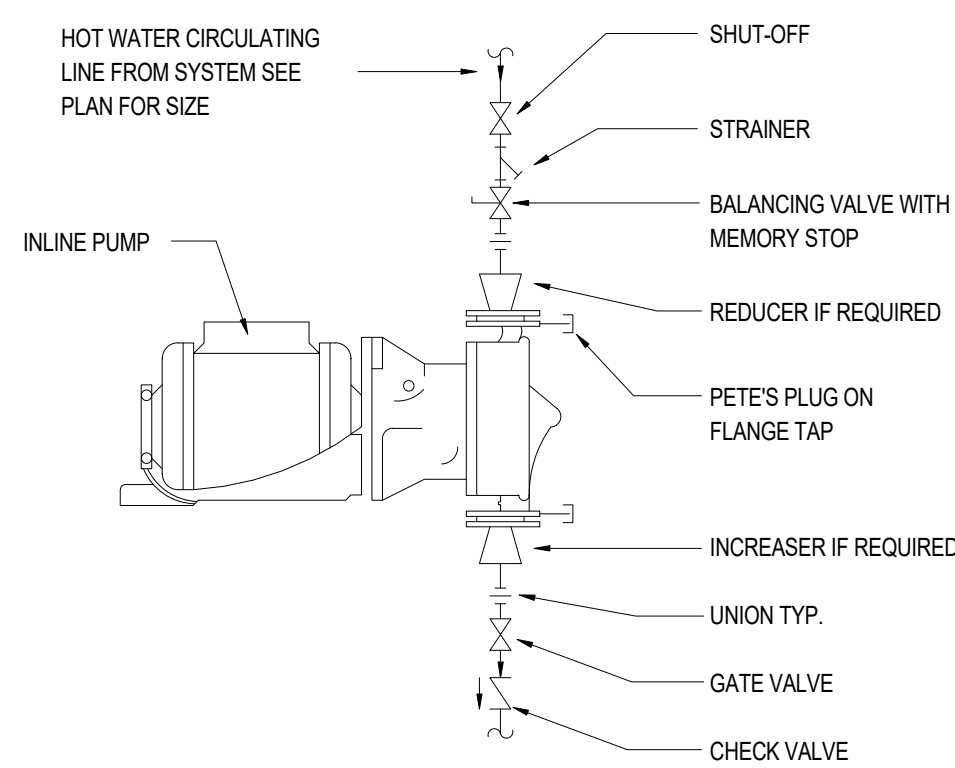
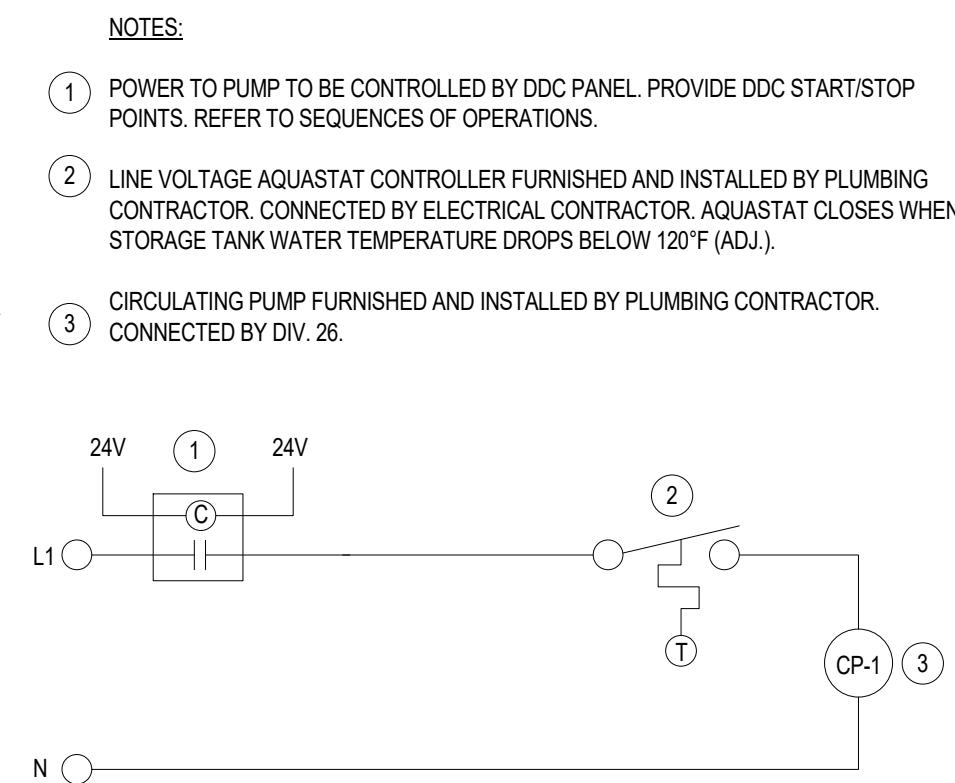
06 ELECTRONIC TRAP PRIMER CONNECTION DETAIL
SCALE : NOT TO SCALE



- NOTES:**
1. PREFERRED PIPING DIAGRAM.
 2. THE TEMPERATURE AND PRESSURE RELIEF VALVE SETTING SHALL NOT EXCEED PRESSURE RATING OF ANY COMPONENT IN THE SYSTEM.
 3. PROVIDE HEAT TRAP DEVICE OR AN ARRANGEMENT OF TUBING AS PER IECC. INSULATE THE FIRST 8' OF OUTLET PIPING AND THE INLET PIPING BETWEEN THE STORAGE TANK AND HEAT TRAP (INCLUDE THE HEAT TRAP).

| LEGEND | | | |
|--------|--|--|--|
| | | | |
| | | | |

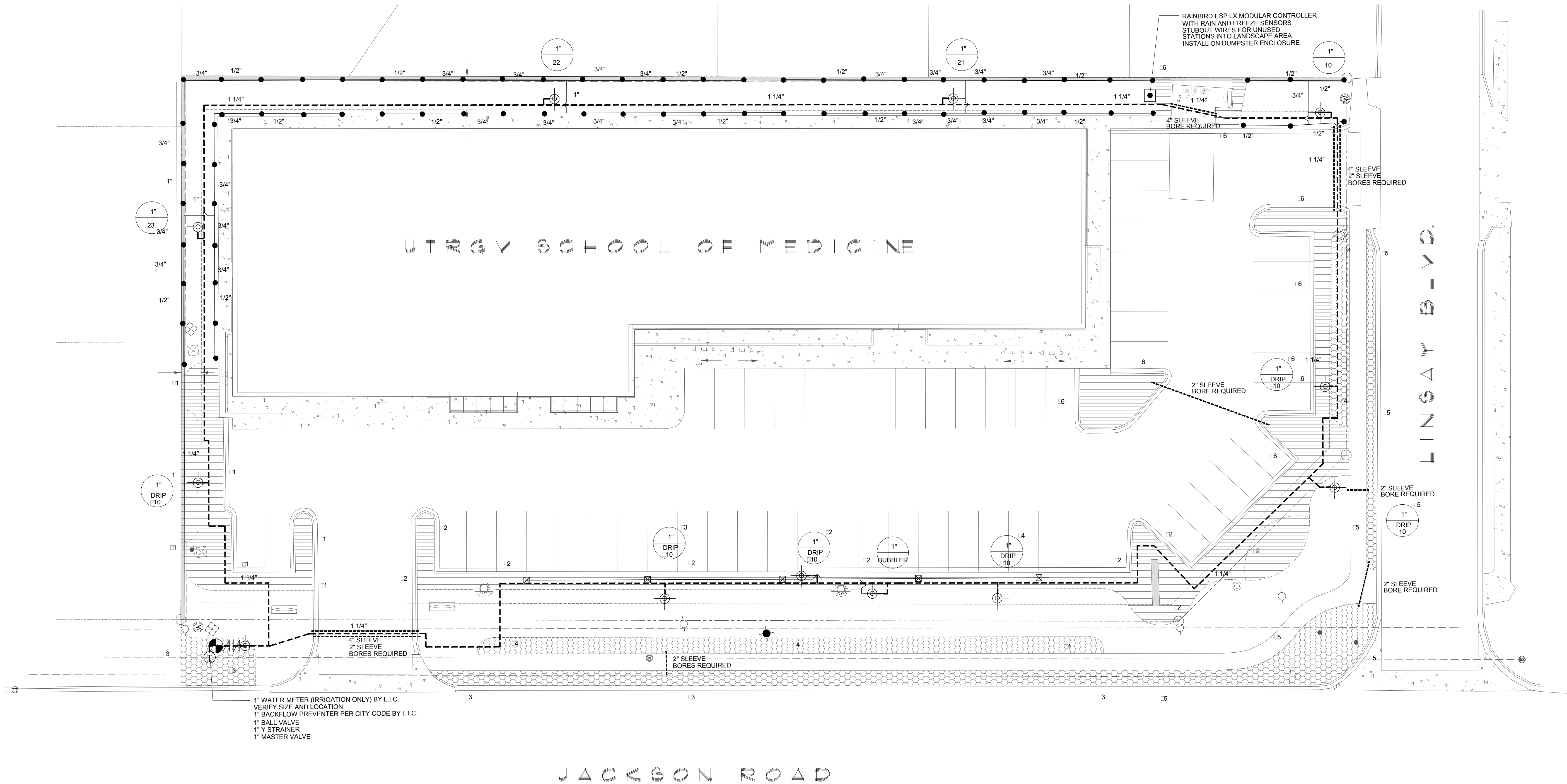
07 FLOOR MOUNTED EWH-1 DETAIL
SCALE : NOT TO SCALE



08 CIRCULATING PUMP WIRING SCHEMATIC & DETAIL
SCALE : NOT TO SCALE



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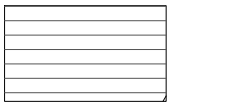


IRRIGATION LEGEND

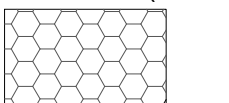
- RAINBIRD R-VAN SERIES ROTARY NOZZLES
- RAINBIRD 1404 BUBBLER HEAD
- RAINBIRD PEB SERIES ELECTRIC VALVE
- CONTROLLER (ESP-LX)
- RAINBIRD WIRELESS RAIN/FREEZE SENSOR
- WATER METER (AS SIZED)
- BACKFLOW PREVENTER (AS SIZED)
- CLASS 200 PVC LATERAL PIPING
- CLASS 200 PVC MAINLINE
- SCH. 40 PVC SLEEVING (AS SIZED)

VALVE SIZE
GPM

DRIPLINE (BED)



DRIPLINE (LAWN)



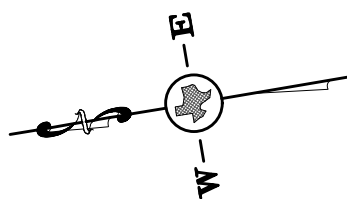
RAINBIRD DRIPLINE XFS
(18" LATERAL SPACING, 12" EMITER SPACING)
XF SERIES TIE DOWN STAKES (TDS-050) @ 36" O.C. & TWO ON EACH TEE/ELBOW
PVC LATERAL PIPING SIZED AS REQUIRED
RAINBIRD DRIP CONTROL ZONE KIT XCZ-100-PRB-COM (EACH DRIP ZONE)
1" BALL VALVE WITH REGULATED PRESSURE AND 200 MESH FILTRATION
(1) DRIP SYSTEM OPERATION INDICATOR (OPERIND) PER IRRIGATION ZONE
INSTALL ALL EQUIPMENT ACCORDING TO
MANUFACTURERS SPECIFICATIONS

ALL VALVE BOXES SHALL BE RAINBIRD VB-STD OR APPROVED EQUAL
ALL VALVE BOXES SHALL HAVE FILTER FABRIC AND 4" OF GRAVEL AT BASE

SLEEVING NOTES

- Irrigation Contractor shall supply and install sleeves and conduits at twenty-four (24") inches below finish grade of the top of pavement. Bore as required.
- Irrigation Contractor shall extend sleeves one (1') foot beyond edge of all pavement.
- Irrigation Contractor shall cap pipe ends using PVC caps.
- All sleeves shall be Schedule 40 PVC pipe.
- ALL sleeves shall be bored under existing pavement.

IRRIGATION PLAN
SCALE: 1/16" = 1'-0"



IRRIGATION LEGEND

- RAINBIRD R-VAN SERIES ROTARY NOZZLES
- RAINBIRD 1404 BUBBLER HEAD
- RAINBIRD PEB SERIES ELECTRIC VALVE
- CONTROLLER (ESP-LX)
- RAINBIRD WIRELESS RAIN/FREEZE SENSOR
- WATER METER (AS SIZED)
- BACKFLOW PREVENTER (AS SIZED)
- CLASS 200 PVC LATERAL PIPING
- CLASS 200 PVC MAINLINE
- SCH. 40 PVC SLEEVING (AS SIZED)
- VALVE SIZE
- GPM

DRIPLINE (BED)

RAINBIRD DRIPLINE XFS

(18" LATERAL SPACING, 12" EMITER SPACING)

XF SERIES TIE DOWN STAKES (TDS-050) @ 36" O.C. & TWO ON EACH TEE/ELBOW

PVC LATERAL PIPING SIZED AS REQUIRED

RAINBIRD DRIP CONTROL ZONE KIT XCZ-100-PRB-COM (EACH DRIP ZONE)

1" BALL VALVE WITH REGULATED PRESSURE AND 200 MESH FILTRATION

(1) DRIP SYSTEM OPERATION INDICATOR (OPERIND) PER IRRIGATION ZONE

INSTALL ALL EQUIPMENT ACCORDING TO MANUFACTURERS SPECIFICATIONS

DRIPLINE (LAWN)

RAINBIRD DRIPLINE XFS

(18" LATERAL SPACING, 12" EMITER SPACING)

XF SERIES TIE DOWN STAKES (TDS-050) @ 36" O.C. & TWO ON EACH TEE/ELBOW

PVC LATERAL PIPING SIZED AS REQUIRED

RAINBIRD DRIP CONTROL ZONE KIT XCZ-100-PRB-COM (EACH DRIP ZONE)

1" BALL VALVE WITH REGULATED PRESSURE AND 200 MESH FILTRATION

(1) DRIP SYSTEM OPERATION INDICATOR (OPERIND) PER IRRIGATION ZONE

INSTALL ALL EQUIPMENT ACCORDING TO MANUFACTURERS SPECIFICATIONS

XXX

RAIN

ALL VALVE BOXES SHALL BE RAINBIRD VB-STD OR APPROVED EQUAL

ALL VALVE BOXES SHALL HAVE FILTER FABRIC AND 4" OF GRAVEL AT BASE

IRRIGATION NOTES

- All equipment numbers reference Rainbird equipment catalog unless otherwise indicated.
- LAWN SPRAY HEADS are 1804 sam installed as per detail.
- SHRUB SPRAY HEADS are 1812 sam installed as per detail.
- ELECTRIC CONTROL VALVES shall be PEB installed as per detail shown. Size valves as shown on plans. Valves shall be installed in valve boxes large enough to permit manual operation, removal of solenoid and/or valve cover without any earth excavation.
- AUTOMATIC CONTROLLER shall be installed at location shown. Power (120V) shall be located in a junction box within five feet (5') of controller location. Power supply and junction box to be provided by General Contractor.
- All 24 volt valve wiring is to be UF 14 single conductor. All wire splices are to be permanent and waterproof.
- SLEEVES shall be supplied and installed by Irrigation Contractor. Sleeve material shall be Schedule 40. Bore under existing pavement as required. Sizes as indicated on plans.
- Ten days prior to start of construction, contractor shall verify static water pressure. If static pressure is less than 50 PSI, do not start work until notified to do so by SSP Design.
- All mainline and lateral piping shall have a minimum of 12 inches of cover. All piping under paving shall have a minimum of 18 inches of cover.
- The irrigation contractor shall coordinate installation of the system with the landscape contractor so that all plant material will be watered in accordance with the intent of the plans and specifications.
- The irrigation contractor shall select the proper arc and radius for each nozzle to insure 100% and proper coverage of all lawn areas and plant material. All nozzles in parking lots and planting beds shall be low angle to minimize overspray on pavement surfaces. No water will be allowed to spray on building.
- The irrigation contractor shall warranty all system components for a period of one year.
- See specifications for further instructions and project requirements.

NOTES:

- DISTANCING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE RAIN BIRD XFS DRIPLINE INSTALLATION GUIDE FOR SUGGESTED SPACINGS.
- LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM LENGTH SHOWN IN THE ACCOMPANYING TABLE.
- AIR RELIEF VALVE TO BE INSTALLED AT HIGH POINT OF AREA.

| Inlet Pressure psi | 12" Spacing | | 18" Spacing | | 24" Spacing | |
|-----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | Nominal Flow (GPH) | Nominal Flow (GPH) | Nominal Flow (GPH) | Nominal Flow (GPH) | Nominal Flow (GPH) | Nominal Flow (GPH) |
| 15 | 255 | 194 | 357 | 273 | 448 | 343 |
| 20 | 291 | 220 | 408 | 313 | 514 | 394 |
| 30 | 350 | 266 | 494 | 379 | 622 | 478 |
| 40 | 396 | 302 | 560 | 428 | 705 | 541 |
| 50 | 434 | 333 | 614 | 470 | 775 | 594 |

1 IRRIGATION SYSTEMS
END FEED LAYOUT INST. N.T.S.

ALL VALVE BOXES SHALL BE RAINBIRD VB-STD OR APPROVED EQUAL

ALL VALVE BOXES SHALL HAVE FILTER FABRIC AND 4" OF GRAVEL AT BASE

3 VALVE BOX (VB-STD)
NOT TO SCALE

NOTES:

- PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
- AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.
- SAVE YOUR HANDS. USE THE RAIN BIRD FITTINGS-TOOL XF INSERTION TOOL FOR FITTING ASSEMBLY.

4 IRRIGATION SYSTEMS
SUB-HEADER INST. N.T.S.

1 FINISH GRADE

2 FLUSH CAP FOR EASY FIT

3 EASY FIT COUPLING

4 SUBTERRANEAN EMITTER BOX

5 SUB-SURFACE DRIPLINE

6 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL WITH FILTER FABRIC AT BASE

5 DRIPLINE
NOT TO SCALE

NOTE:

- ALLOW A MINIMUM OF 6-INCHES OF DRIPLINE TUBING IN VALVE BOX IN ORDER TO DIRECT FLUSHED WATER OUTSIDE VALVE BOX.

6 THRUST BLOCK DETAIL
NOT TO SCALE

2 REMOTE CONTROL VALVE
NOT TO SCALE

NOTE:

- INSTALL PART CIRCLE POP-UP HEADS 6" FROM EDGE OF PAVED AREAS, UNLESS OTHERWISE NOTED.

7 PRESSURE VACUUM BREAKER
NOT TO SCALE

NOTE:

- INSTALL PART CIRCLE POP-UP HEADS 6" FROM EDGE OF PAVED AREAS, UNLESS OTHERWISE NOTED.

8 ROTOR POP-UP
NOT TO SCALE

NOTE:

- INSTALL PART CIRCLE POP-UP HEADS 6" FROM EDGE OF PAVED AREAS, UNLESS OTHERWISE NOTED.

9 LAWN POP-UP HEAD
NOT TO SCALE

NOTE:

- INSTALL IRRIGATION CONTROLLER AT LOCATIONS SHOWN ON DRAWINGS AND ACCORDING TO MANUFACTURERS' RECOMMENDATIONS

10 WALL/RACK MOUNTED CONTROLLER
NOT TO SCALE

FACILITIES PLANNING & CONSTRUCTION

958.665.2770

3501 N. MCCOLL RD | McALLEN, TX 78501 | P: 956.630.9494 | F: 956.630.9058

SITE PLANNING
LANDSCAPE DESIGN

789 E. WASHINGTON ST.
TEL: 956/647-8788
FAX: 956/647-9977
SPACES@SSPDENIGN.COM

UTRGV School of Medicine

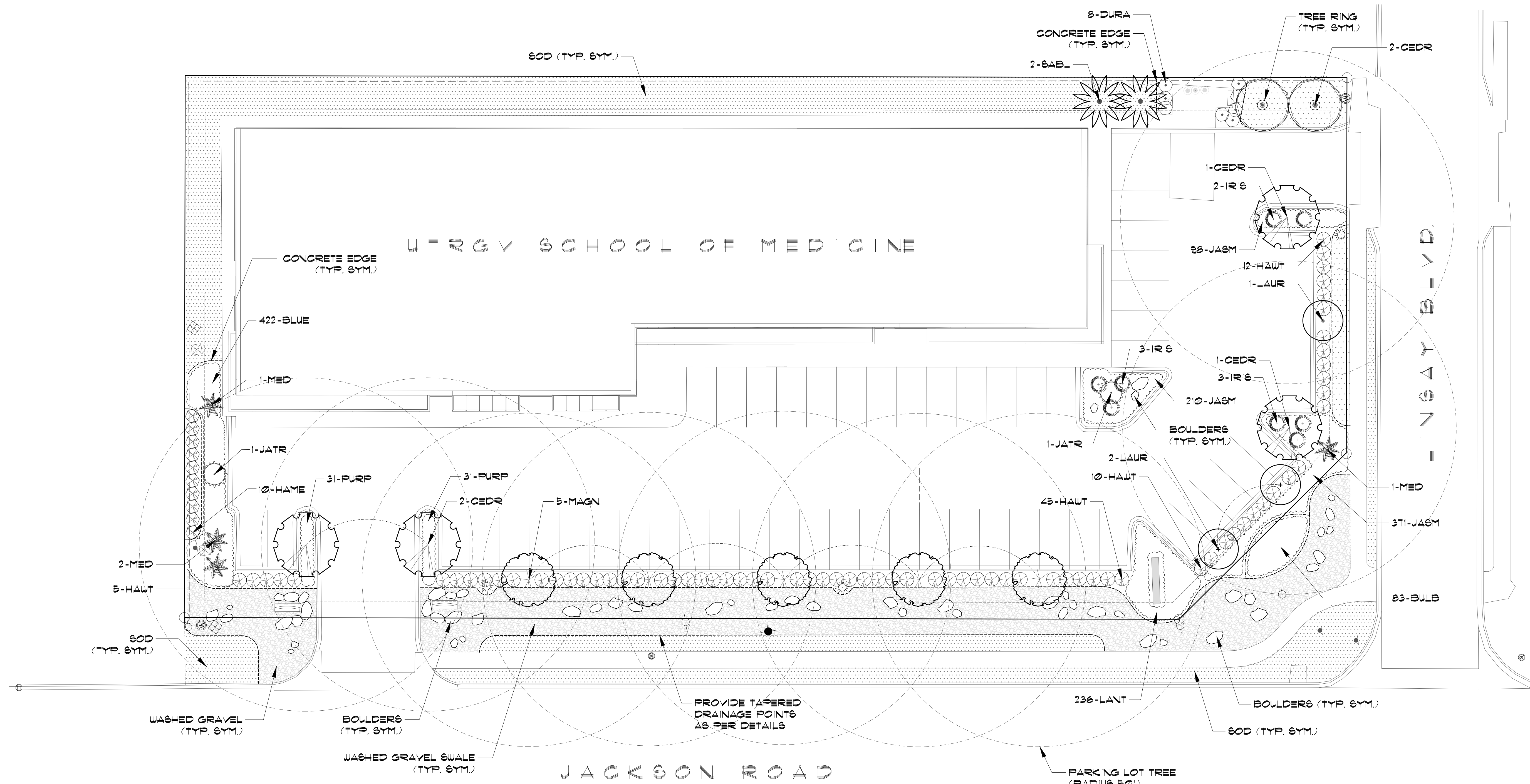
Jackson Road

Edinburg, Texas

Issue Date OCTOBER 4, 2018

IRRIGATION DETAILS

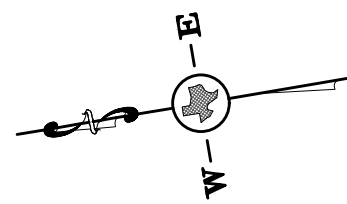
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LANDSCAPE ORDINANCE REQUIREMENTS

| DESCRIPTION | QUANTITY |
|---|-----------|
| DEVELOPMENT AREA | 55,325 SF |
| REQUIRED LANDSCAPE AREA (10%) | 5,532 SF |
| PROVIDED LANDSCAPE AREA | 17,551 SF |
| REQUIRED TREES: (26) TREES FOR FIRST 10,000 SF REQUIRED | 26 |
| PROVIDED TREES (INCLUDING PALMS - 2 PALMS = 1 TREE) (SEE SCHEDULE - 4" CALIPER TREE = 2 TREES) | 7 |
| AREA OF IRRIGATION (AUTOMATIC) | 100 % |

LANDSCAPE PLAN
SCALE: 1/16" = 1'-0"





FACILITIES PLANNING
& CONSTRUCTION
956.665.2770



3301 N. McCOLL RD | McALLEN, TX 78501 | P: 956.630.7494 | F: 956.630.2058



SITE PLANNING
LANDSCAPE DESIGN
789 E. WASHINGTON ST.
TEL: 956.541-8788
FAX: 956.541-8977
SPACES@SSPDESIGN.COM

UTRGV School of Medicine
Jackson Road
Edinburg, Texas

Issue Date OCTOBER 4, 2018

LANDSCAPE
PLAN

L 2.01

PLANT SCHEDULE

| CODE | BOTANICAL NAME | COMMON NAME | TYPE | SIZE | SPACING | QTY |
|-------|-----------------------------|---------------------------------------|---------|---------------------|----------|--------|
| | PALMS/CYCADS | | | | | |
| SABL | SABAL TEXANA | TEXAS SABAL PALM | B/B | 6-8' TRUNK | A.S. | 2 |
| MED | CHAMAEROPS HUMILIS | MED. FAN PALM (TRIPLE) | B/B | 100" TRUNK | A.S. | 4 |
| | TREES | | | | | |
| *CEDR | ULMUS CRASSIFOLIA | CEDAR ELM (CONT. GRN.) | 36" BOX | 4" CAL. 14'H X 11'W | A.S. | 4 |
| *LAUR | SOPHORA SECUNDIFLORA | MOUNTAIN LAUREL (MULTI) | 24" BOX | 6'H X 4'W | A.S. | 3 |
| MAGN | MAGNOLIA GRANDIFLORA | 'LITTLE GEM' MAGNOLIA | 24" BOX | 2" CAL. 1'H X 4'W | A.S. | 5 |
| ORCH | BAUHINIA VARIEGATA | ORCHID TREE | 45 GAL | 2-3" CAL. | A.S. | 2 |
| | SHRUBS | | | | | |
| BLUE | RUPELLIA SQUARROSA | BLUE SHADE RUPELLIA | 1 GAL | 12"HT-BUSHY | 12" O.C. | 422 |
| DURA | DURANTA SP. | DWARF 'SAPPHIRE SHOWERS' | 3 GAL | 18"HT-BUSHY | A.S. | 8 |
| HAME | HAMELIA PATENS | DWARF FIRE BUSH | 3 GAL | 18"HT-BUSHY | A.S. | 10 |
| HAWT | RAPHIOLEPS INDICA | INDIAN HAWTHORNE 'CLARA' | 3 GAL | 18"HT-BUSHY | A.S. | 12 |
| IRIS | DIETES IRIODIODES | WHITE AFRICAN IRIS | 3 GAL | 18"HT-BUSHY | A.S. | 8 |
| JATR | JATROPHA INTEGERRIMA | COMPACT JATROPHA | 5 GAL | 36"HT-BUSHY | A.S. | 2 |
| | GROUNDCOVERS/VINES | | | | | |
| BULB | BULBINE FRUTESCENS | ORANGE BULBINE | 1 GAL | 12"HT-BUSHY | 18" O.C. | 83 |
| JASM | TRACH. ASIATICUM | ASIAN JASMINE | 1 GAL | | 12" O.C. | 679 |
| LANT | LANTANA CAMARA 'RED SPREAD' | 'RED SPREAD' LANTANA | 1 GAL | | 24" O.C. | 236 |
| PURP | LANTANA MONTEVIDENSIS | PURPLE TRAILING LANTANA | 1 GAL | | 18" O.C. | 62 |
| | GRASS/LAWN | | | | | |
| SOD | CYNODON DACTYLON | #1 CERTIFIED '419' HYBRID BERMUDA SOD | | | | 899 SY |

* CONTAINER GROWN SHALL BE GLEN FLORA FARM'S (978) 453-1533 OR APPROVED EQUAL.

MATERIAL SCHEDULE

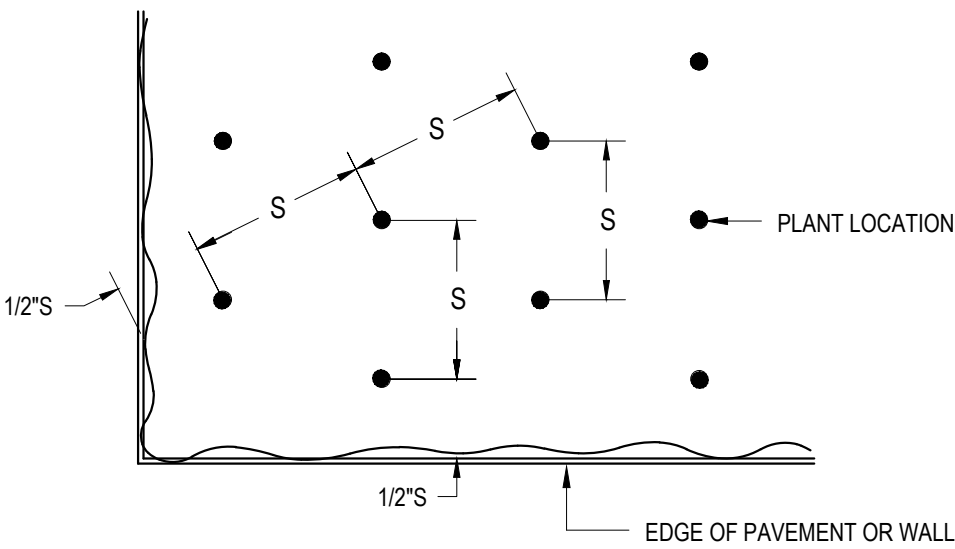
| DESCRIPTION | NOTES | QUANTITY |
|-------------------|---|----------------|
| PREMIUM COMPOST | 2" LAYER PREMIUM COMPOST (EARTHWISE ORGANICS MIX) | 25 CY |
| SCREENED TOP SOIL | 8" FOR ALL PLANTING BEDS | 111 CY |
| MULCH (HARDWOOD) | 2" MIN. FOR ALL PLANTING BEDS AND WATERING BASINS (TEXAS NATIVES SHREDDED HARDWOOD MULCH) | 408 BAGS (20#) |
| HERBICIDE | ALL PLANTING BED AREAS AS SPECIFIED | 4,543 SF |
| FERTILIZER | ALL PLANT MATERIAL PER DETAILS | -- |
| PLANTING TABLETS | PER DETAILS / AS SPECIFIED | -- |
| PRE-EMERGENT | ALL PLANTING BED AREAS AS SPECIFIED | 4,543 SF |
| GUYING / STAKING | ALL TREES/PALMS WITH SAFE-T CAPS ON POSTS PER DETAILS | -- |
| CONCRETE EDGE | 5" EXTRUDED COLORED CONCRETE EDGING PER PLANS/DETAILS | 111 LF |
| WASHED GRAVEL | 6" DEPTH WASHED GRAVEL (1 TO 1 1/2") AS PER PLANS | 95 CY |
| WEED BARRIER | FABRICSCAPES WEED BARRIER -NON WOVEN 4.0 OZ. | 5,141 SF |
| BOULDERS | LIMESTONE BOULDERS (VARIES APPROX. 24"X24"X24") | 54 |
| TREE RINGS | 36" DIA. 5" COMMERCIAL GRADE ALUMINUM EDGE 'DREAMSCAPE' TREE RINGS PER PLAN/DETAILS | 2 |
| IRRIGATION SYSTEM | COMPLETE AUTOMATIC IRRIGATION SYSTEM PER PLANS/DETAILS BY LICENSED CONTRACTOR | -- |

CONSTRUCTION NOTES

1. WORK UNDER THIS CONTRACT INCLUDES SITE REVIEW AND COORDINATION WITH EXISTING CONDITIONS, SITE CLEANUP, EXCAVATION, BED PREP, TILLING, EDGING, PLANTING, STAKING, WASHED GRAVEL, BOULDERS, MAINTENANCE, AND GUARANTEE.
- 2.CONTRACTOR SHALL VERIFY ALL QUANTITIES AND DIMENSIONS PRIOR TO BIDDING. QUANTITIES SHOWN IN SCHEDULE ARE FOR CONVENIENCE ONLY.
- 3.NOTIFY OWNER/SSP DESIGN OF ANY DISCREPANCIES IN DRAWINGS/DETAILS OR INSUFFICIENT QUANTITIES DUE TO DIFFERENCES IN PLAN AND ACTUAL FIELD CONDITIONS.
- 4.CONTRACTOR TO VERIFY EXACT PROPERTY LINES, PROJECT BOUNDARIES AND UTILITY EASEMENTS PRIOR TO CONSTRUCTION. ALL PROPERTY LINES AND EASEMENTS SHALL BE STAKES AND FLAGGED BY SURVEYOR AND GC.
- 5.CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES. SPOTTING OF ALL UTILITIES IS REQUIRED.
6. NOTIFY AND MEET WITH SSP DESIGN PRIOR TO ANY CONSTRUCTION FOR VERIFICATION/INTERPRETATION OF PLANS.
7. CONTRACTOR SHALL STAKE OUT ALL BEDS, TREES, PALM LOCATIONS, AND PAVING PRIOR TO INSTALLATION FOR APPROVAL BY SSP DESIGN.
8. CONTRACTOR TO COORDINATE WITH SSP DESIGN TO ENSURE PROPER PLACEMENT OF PLANT MATERIAL.
- 9.NOTIFY SSP DESIGN PRIOR TO PLANTING OPERATIONS FOR APPROVAL OF ALL PLANT MATERIAL. ANY PLANT NOT APPROVED BY SSP DESIGN WILL BE SUBJECT TO REJECTION.
- 10.CONTRACTOR SHALL SUPPLY AND INSTALL COMPLETE AUTOMATIC IRRIGATION SYSTEM INCLUDING WATER METER, BACKFLOW DEVICE, CONTROLLER, MAINLINE SLEEVES, LATERALS, POP-UP HEADS & DRIPLINE TO COVER ALL LANDSCAPE AREAS PER PLANS/DETAILS. IRRIGATION SYSTEM SHALL BE INSTALLED BY A TEXAS LICENSED IRRIGATOR ONLY.
- 11.CONTRACTOR SHALL REMOVE ALL EXISTING GRASS AND WEEDS BY HERBICIDING, DISKING, FLOATING AND FINE GRADING OF ENTIRE PROJECT AREA BEFORE SOD INSTALLATION.
- 12.CONTRACTOR SHALL REMOVE 12" OF EXIST. SOIL WITHIN ALL BED AREAS AND REPLACE WITH IMPORTED TOP SOIL/PREMIUM COMPOST MIX.
- 13.CONTRACTORS SHALL CONSTRUCT 6"x36" WATERING BASINS AROUND ALL TREES/PALMS/ WITH A MIN. 2" LAYER OF SHREDDED HARDWOOD MULCH.
- 14.CONTRACTOR SHALL SUPPLY AND INSTALL EDGING AS SHOWN ON PLANS AND DETAILS.
- 15.CONTRACTOR SHALL ESTABLISH AND MAINTAIN ALL PLANT MATERIAL FOR 90 DAYS AFTER 'SUBSTANTIAL COMPLETION' AND SHALL GUARANTEE ALL TREES, PALMS AND IRRIGATION SYSTEM FOR A PERIOD OF ONE YEAR.
16. SEE TECHNICAL SPECIFICATIONS FOR FURTHER INSTRUCTIONS/REQUIREMENTS.

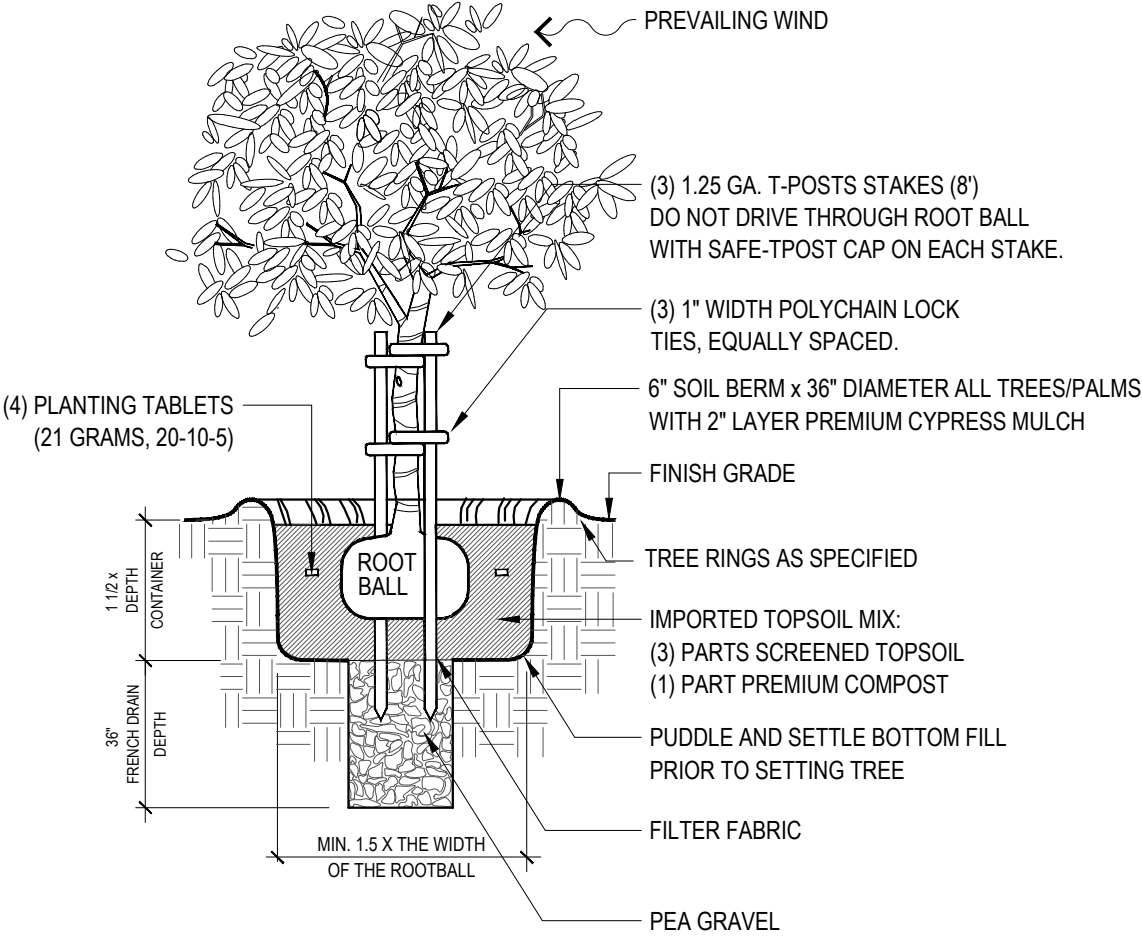
NOTES:

1. S = SPACING. (REFER PLANT LIST FOR AMOUNT OF SPACING.)
2. USE SPACING LAYOUT FOR SHRUBS, GROUNDCOVERS AND ANNUALS.



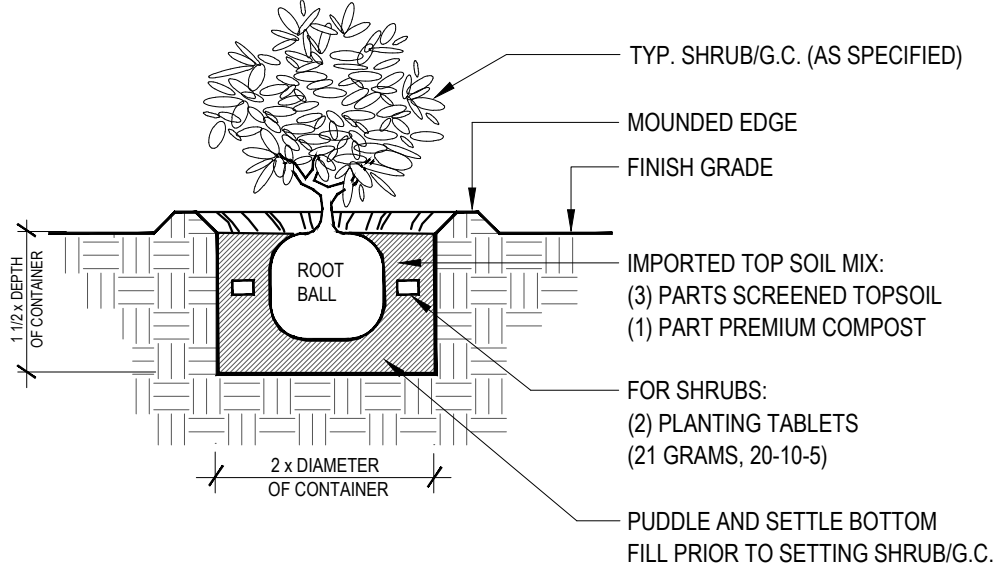
1 TRIANGULAR PLANT SPACING DIAGRAM

NOT TO SCALE



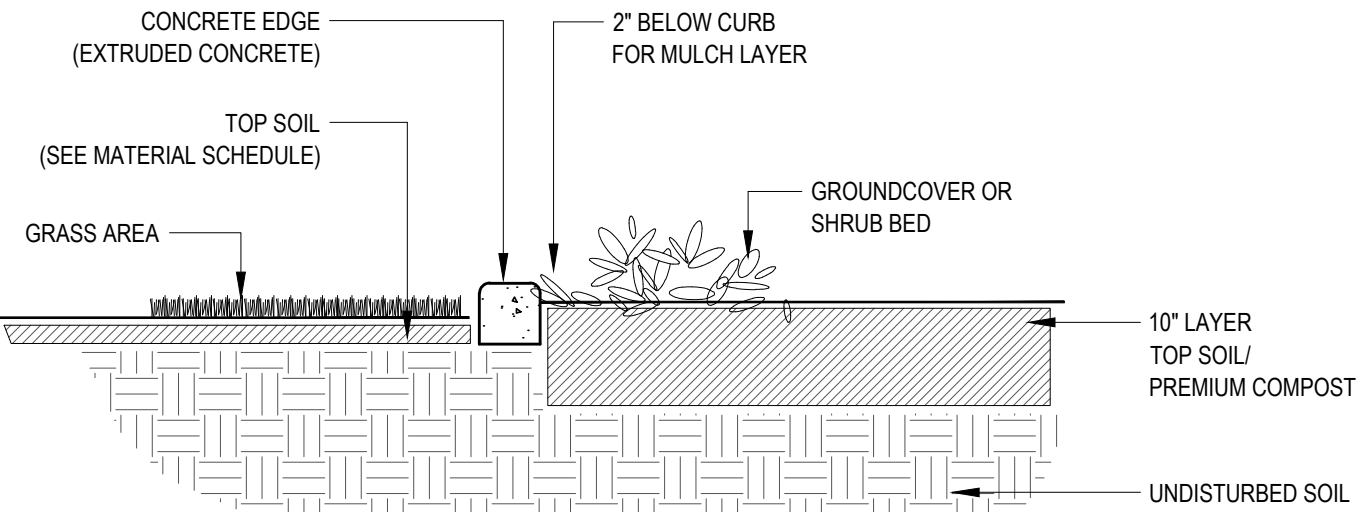
2 TREE PLANTING DETAIL

NOT TO SCALE



3 SHRUB/G.C. PLANTING DETAIL

NOT TO SCALE

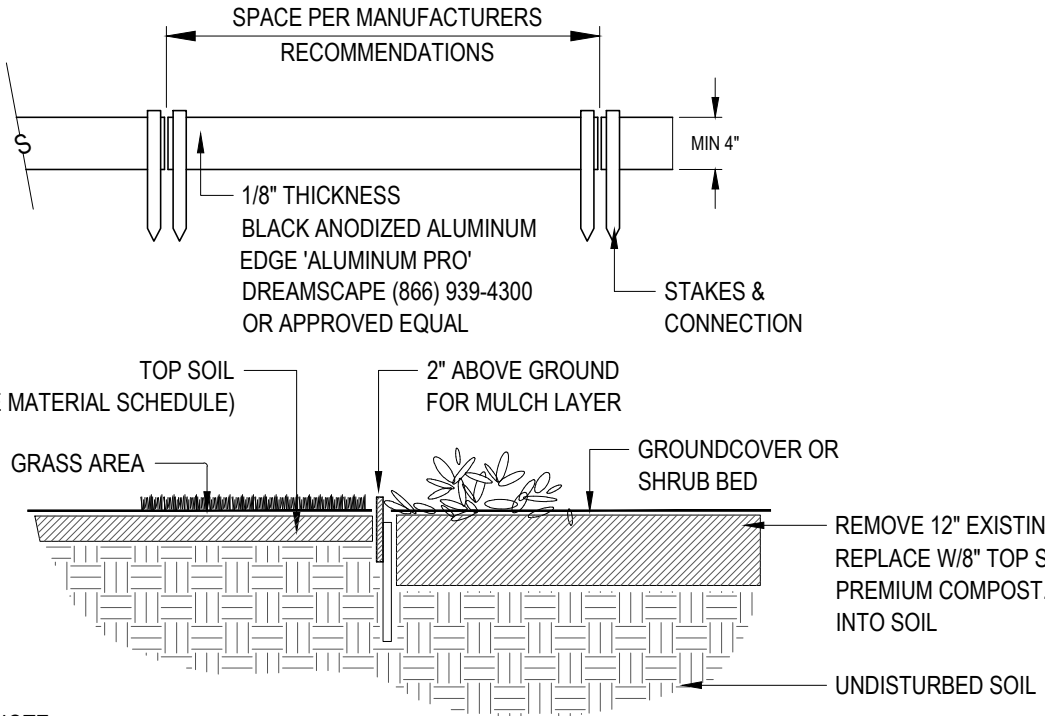


NOTES:

1. CONCRETE CURBING TO HAVE 1 1/2" DEEP CONTRACTION JOINTS @ 5'-0" SPACING.
2. CONCRETE CURBING TO HAVE TAPERED DRAINAGE POINTS AT 20' O.C.
3. 2500-3000 PSI COMPRESSIVE STRENGTH, 490 PSI FLEXURAL STRENGTH.
4. USE HALF-INCH POLYPROPYLENE FIBER REINFORCEMENT.
5. NATURAL FINISH AND COLOR.
6. EQUAL TO 'CURB APPEAL' EDGING (956-867-8350).

4 CONCRETE EDGE DETAIL

NOT TO SCALE

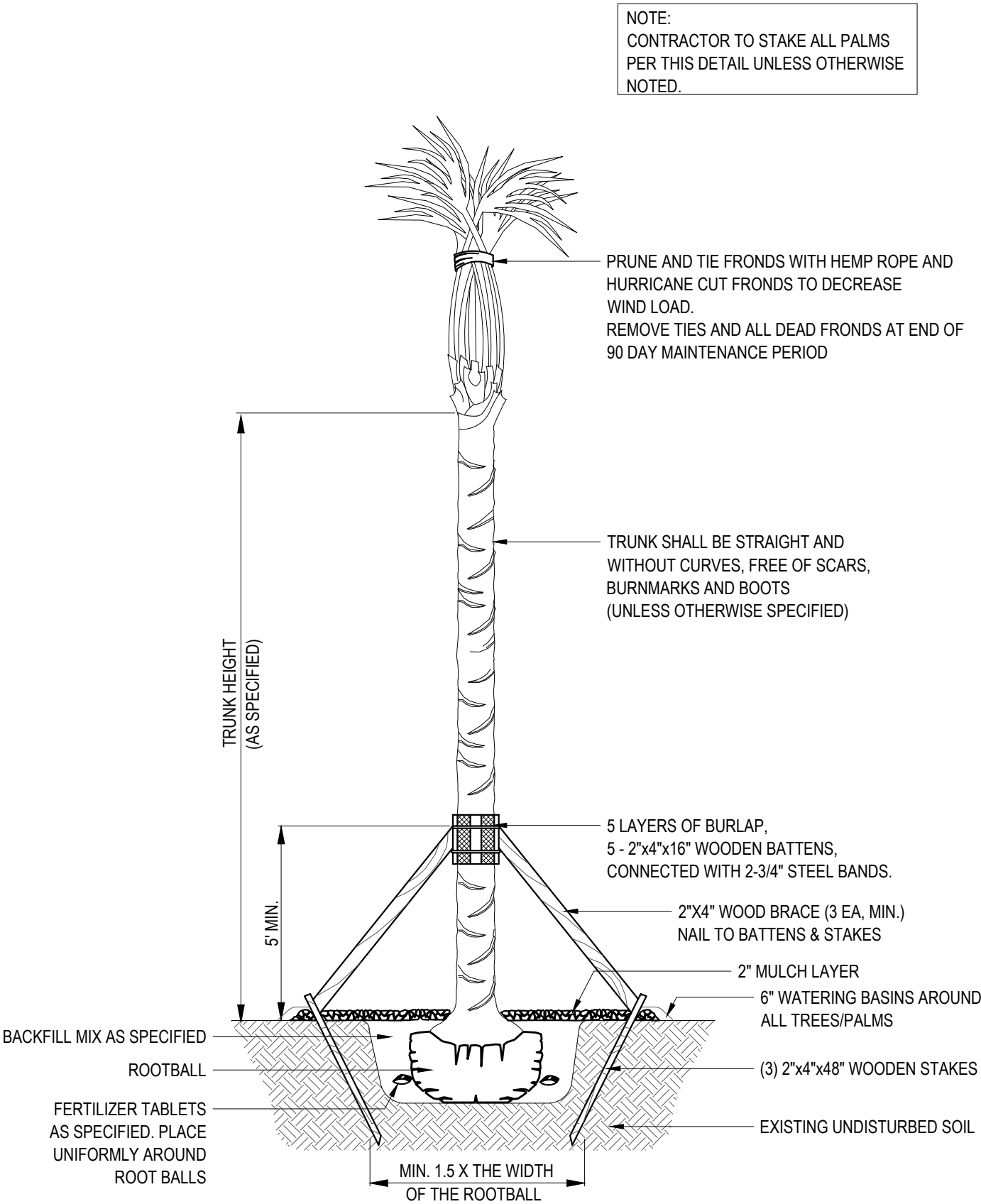


NOTE:

ALL EDGING TO BE ANGLED WITH 6" OVERLAP AND FLUSH WITH ADJACENT PAVEMENT

5 TREE RING DETAIL

NOT TO SCALE



6 PALM PLANTING DETAIL

NOT TO SCALE