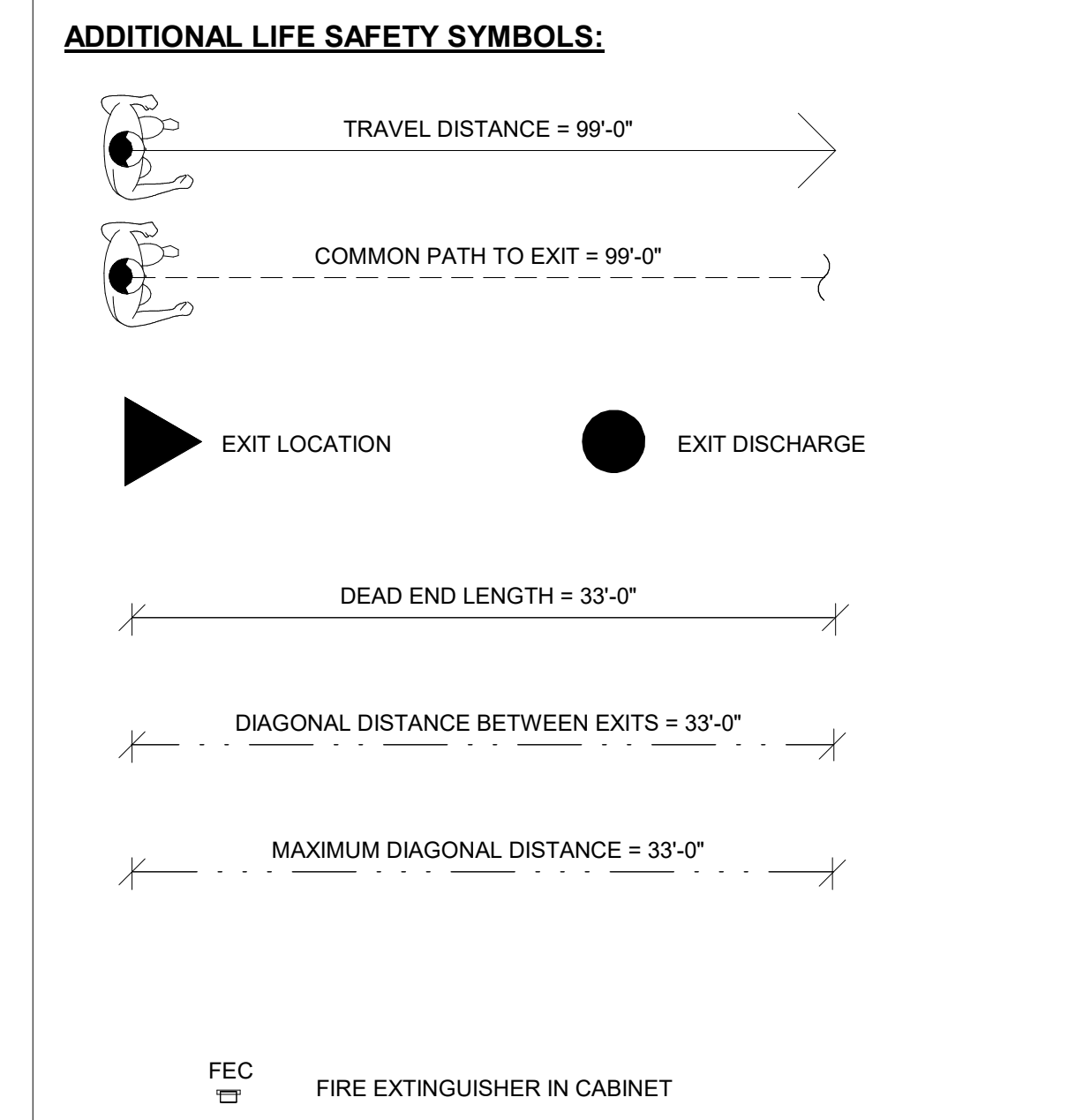
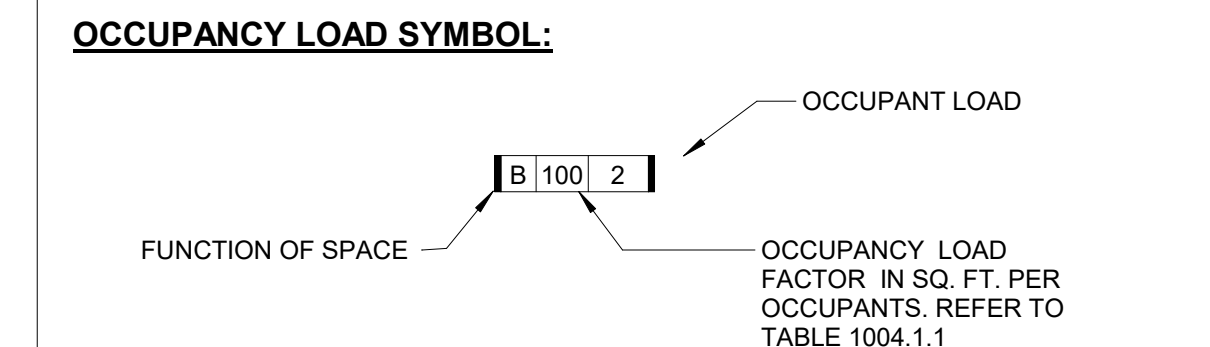
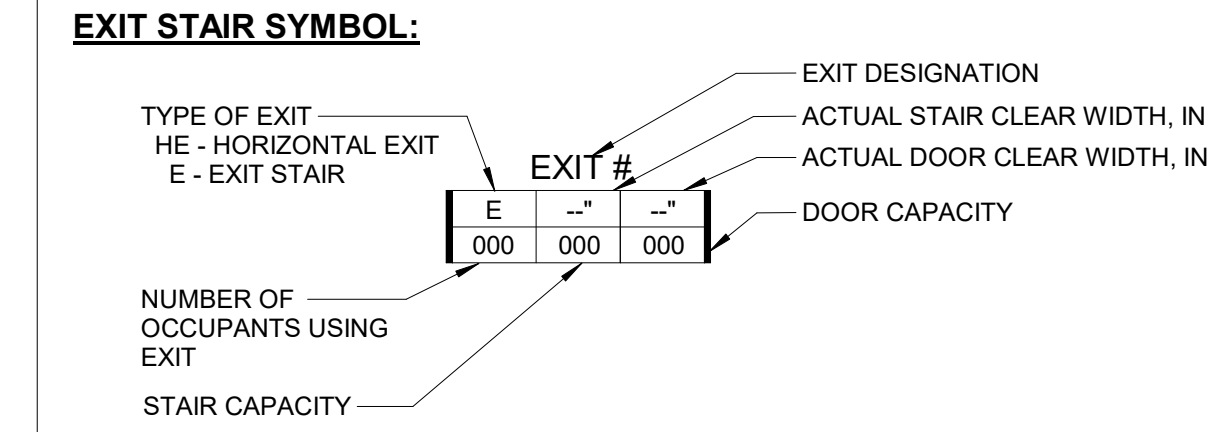


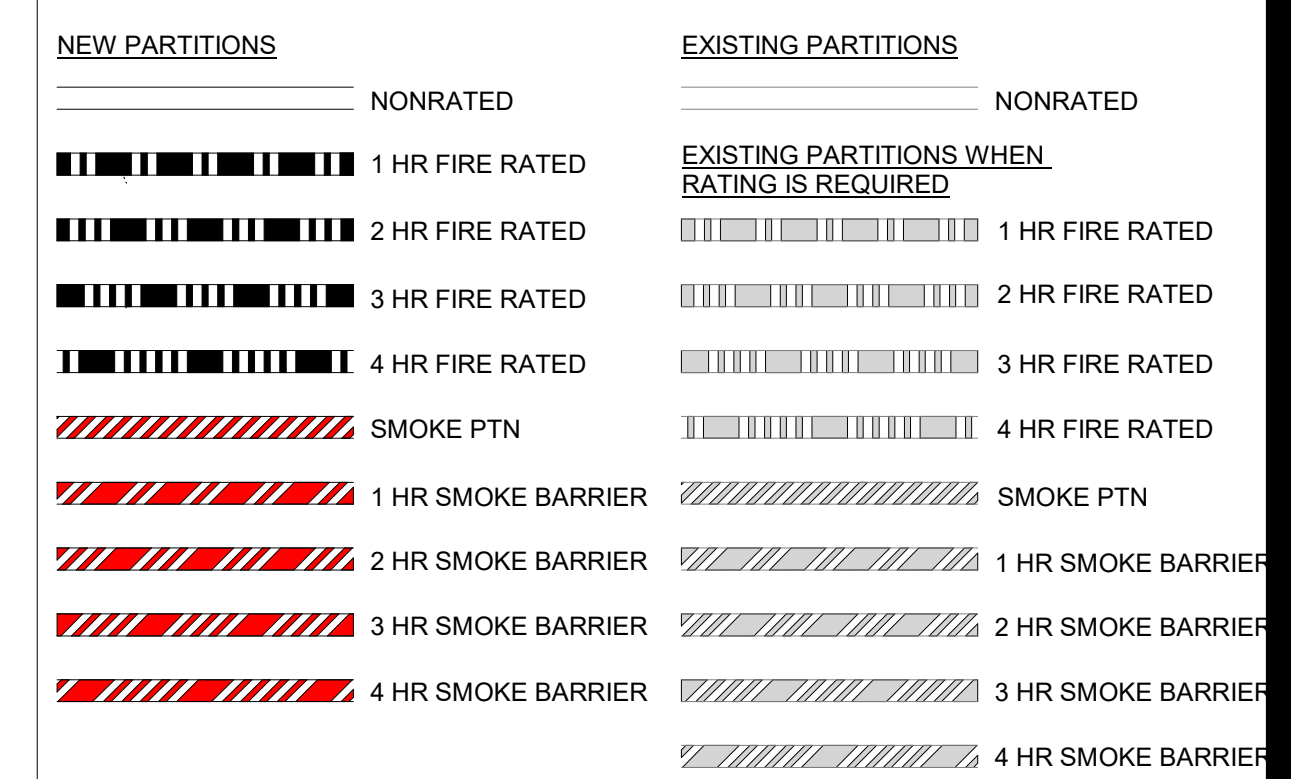
LIFE SAFETY PLAN NOTES

1. THE PROVIDED SHEET NOTES AND GRAPHIC TRAVEL DISTANCE DEPICTIONS ARE NOTE ALL INCLUSIVE AND ARE TO BE USED AS A GUIDE IN DETERMINING CODE COMPLIANCE. DRAWING NOTES ARE PROVIDED FOR ITEMS THAT ARE AN EXCEPTION OR MAY NOT APPEAR CLEAR WITHIN PLANS.
2. FIRE RESISTANCE RATINGS ARE SHOWN GRAPHICALLY. REFER TO ARCHITECTURAL PLANS AND DETAILS FOR SPECIFIC UL ASSEMBLIES FOR FIRE RESISTIVE CONSTRUCTION.

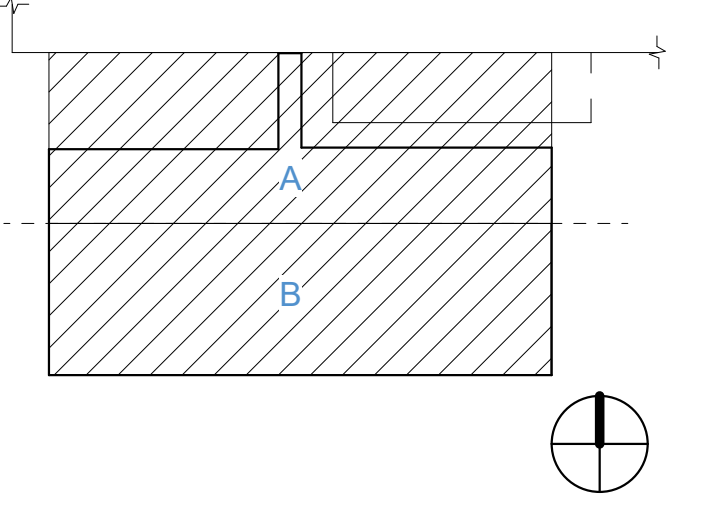
LIFE SAFETY LEGEND



WALL RATING LEGEND



KEY PLAN



PRINCIPAL: DAVID KEITH
RESEARCH PLANNER: STEPH VARGAS
ARCHITECT: ROBERT MCCONNELL
ARCHITECTURAL DESIGNER: RICARDO MOLINA

REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D		ISSUED FOR OWNER'S REVIEW	10.11.2024
C		DESIGN DEVELOPMENT	09.26.2024
B		50% DD SET	05.24.2024
A			05.10.2024

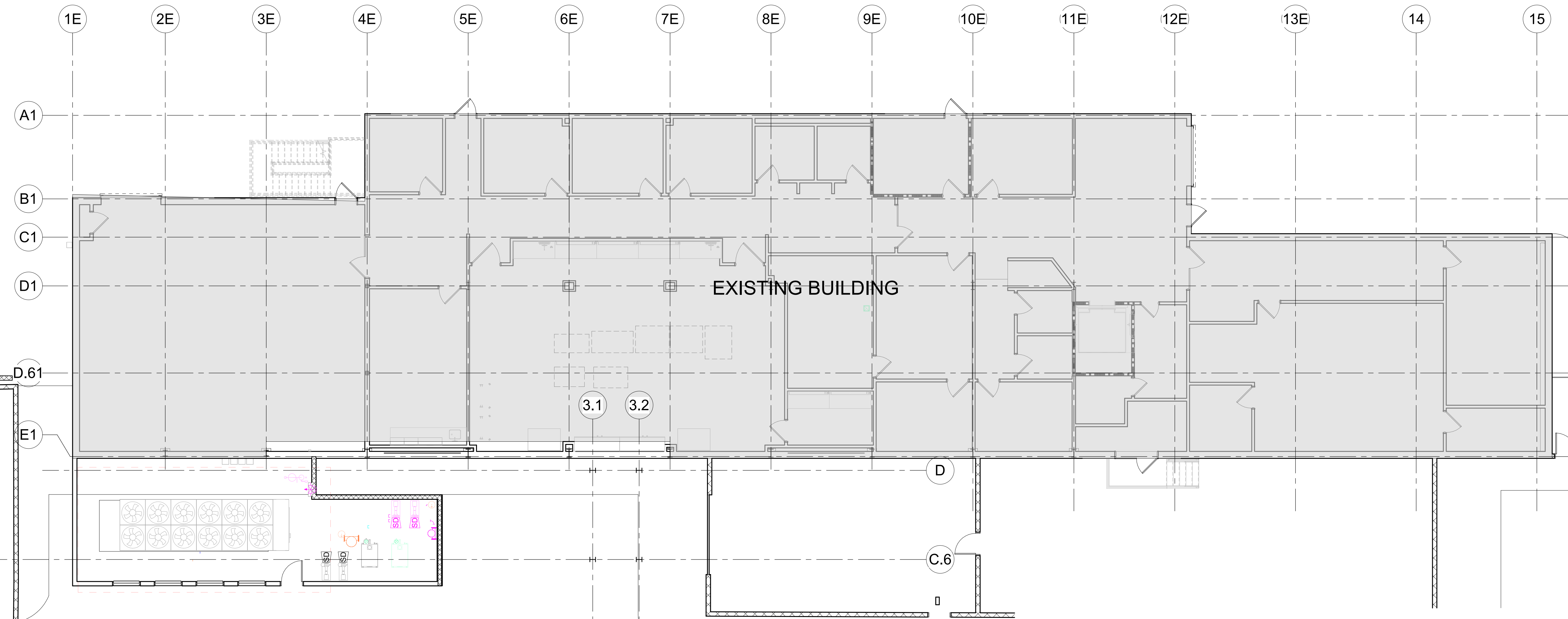
Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY: RM DATE: 11.08.2024
PROJECT NO.: 20230523 SCALE: 1/8" = 1'-0"

DRAWING NAME: LEVEL 1 LIFE SAFETY PLAN

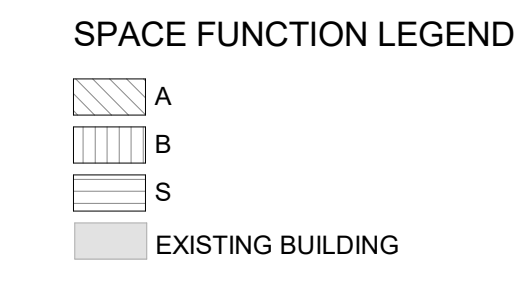
FLOOR/SECTION PHASE: 1 CD DRAWING NO.: LS2.1

NOT FOR CONSTRUCTION



LS - LEVEL 1 - OCCUPANT LOAD

FUNCTION OF SPACE	AREA (SF)	OCCUPANT LOAD FACTOR (SF / OCC)	OCCUPANT LOAD
A	351	15	33
B	4121	150	29
S	1341	300	5
S	460	500	1
	6273		68



2 LEVEL 1 LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"

LS - LEVEL 1 - EXIT ELEMENTS

EXIT #	DOOR CLEAR WIDTH (IN)	STAIR CLEAR WIDTH (IN)	DOOR EGRESS WIDTH FACTOR (IN / OCC)	STAIR EGRESS WIDTH FACTOR (IN / OCC)	DOOR CAPACITY (OCCUPANTS)	STAIR CAPACITY (OCCUPANTS)	LIMITING CAPACITY (OCCUPANTS)	OCCUPANTS USING EXIT	SPARE EXIT CAPACITY
EX.1	69"	0"	0.15	0.2	460	0	460	34	426
EX.2	32"	0"	0.15	0.2	213	0	213	34	179
EX.3	32"	0"	0.15	0.2	213	0	213	33	180
Grand total							886	101	785

SECOND FLOOR OCCUPANTS USING EX.3

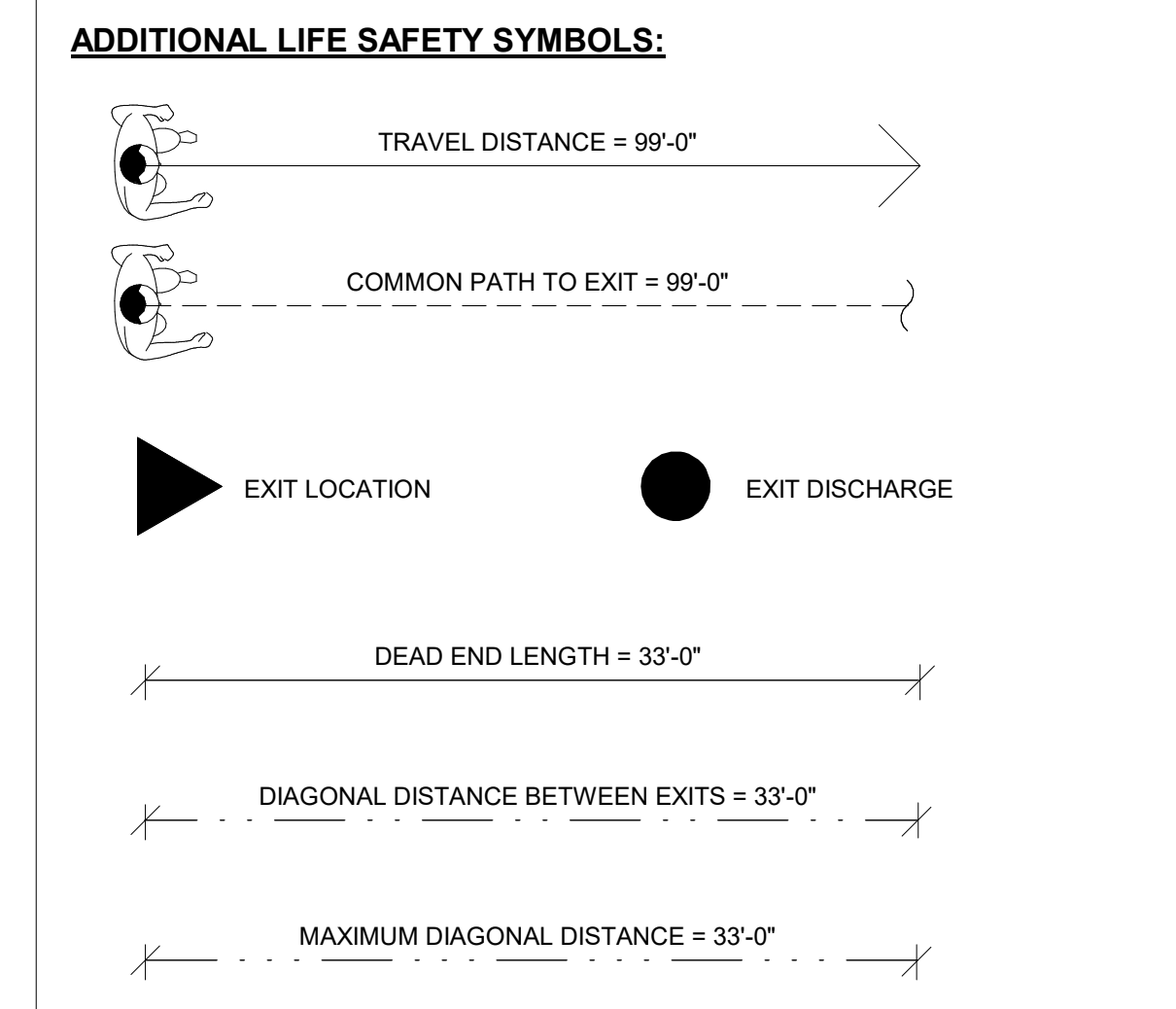
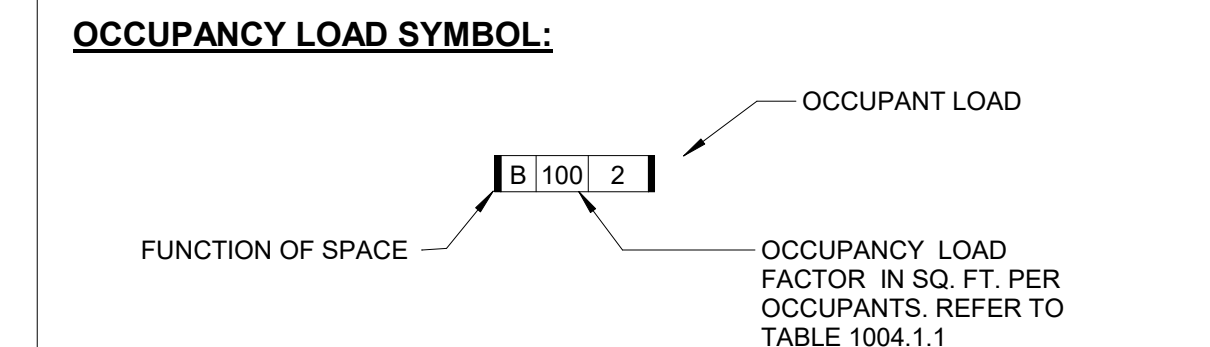
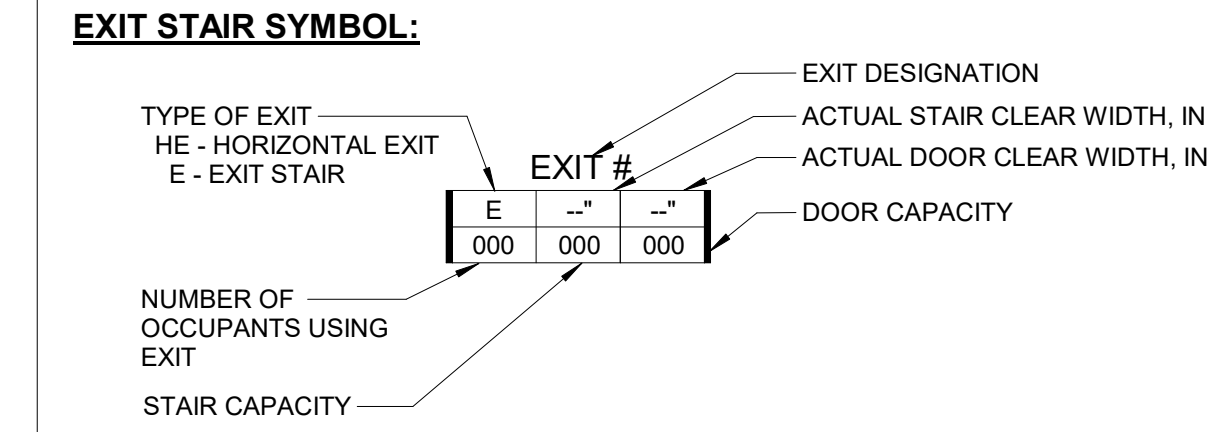
11/8/2024 11:45:25 AM Autodesk Docs://20230523 - South Nevada Health District M.L.K. BLDG - 3 LAB/20230523_A22_CENTRAL.rvt

LIFE SAFETY PLAN NOTES

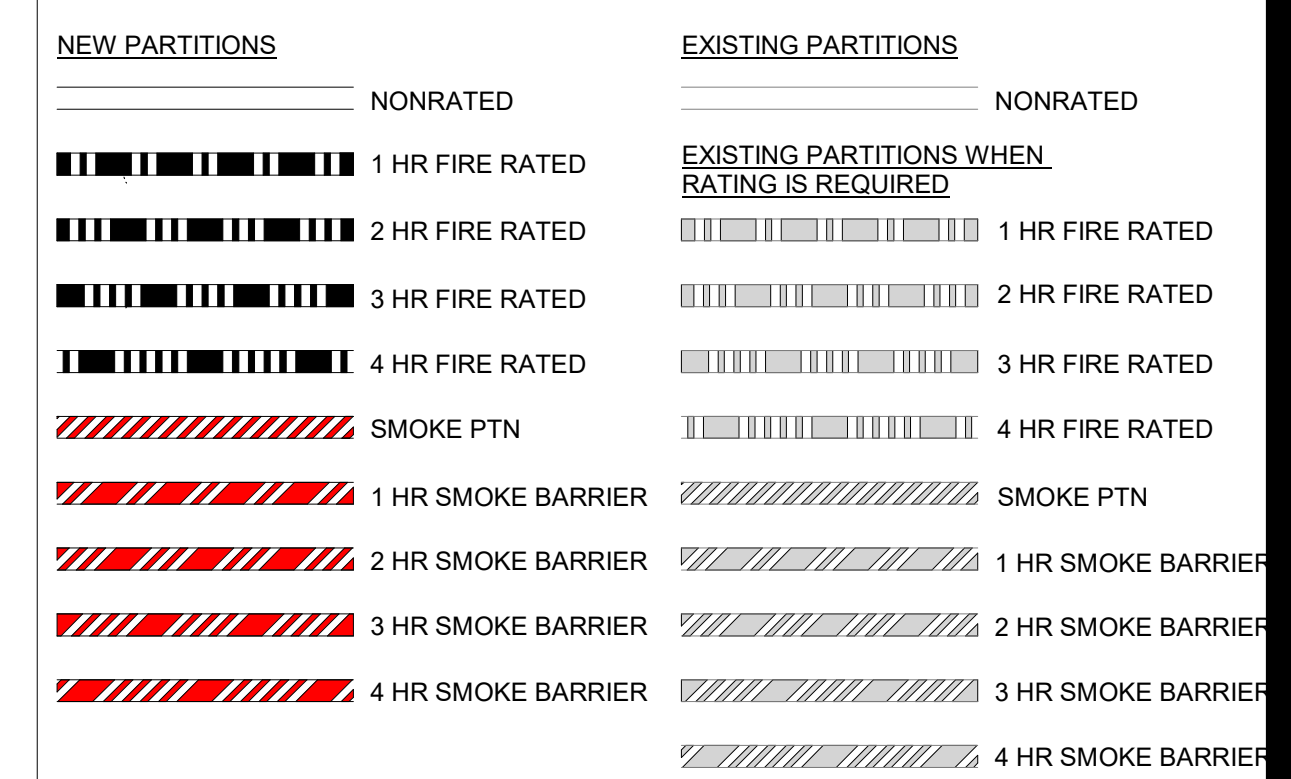
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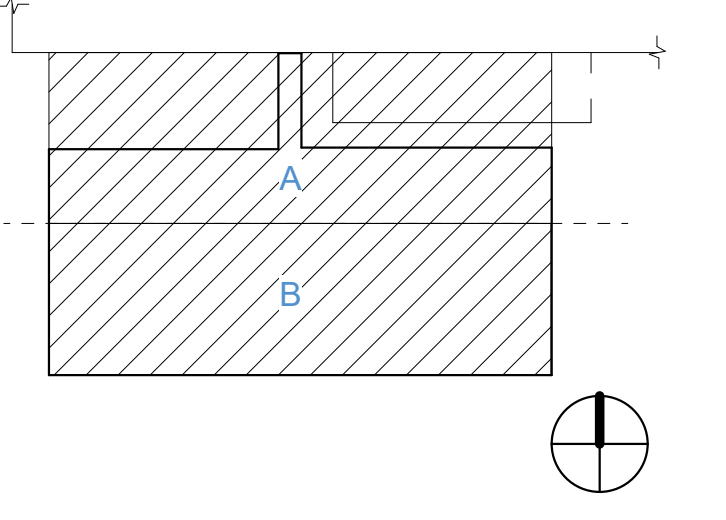
LIFE SAFETY LEGEND



WALL RATING LEGEND



KEY PLAN



PRINCIPAL
DAVID KEITH
RESEARCH PLANNER
STEPH VARGAS
ARCHITECT
ROBERT MCCONNELL
ARCHITECTURAL DESIGNER
RICARDO MOLINA

REVISIONS

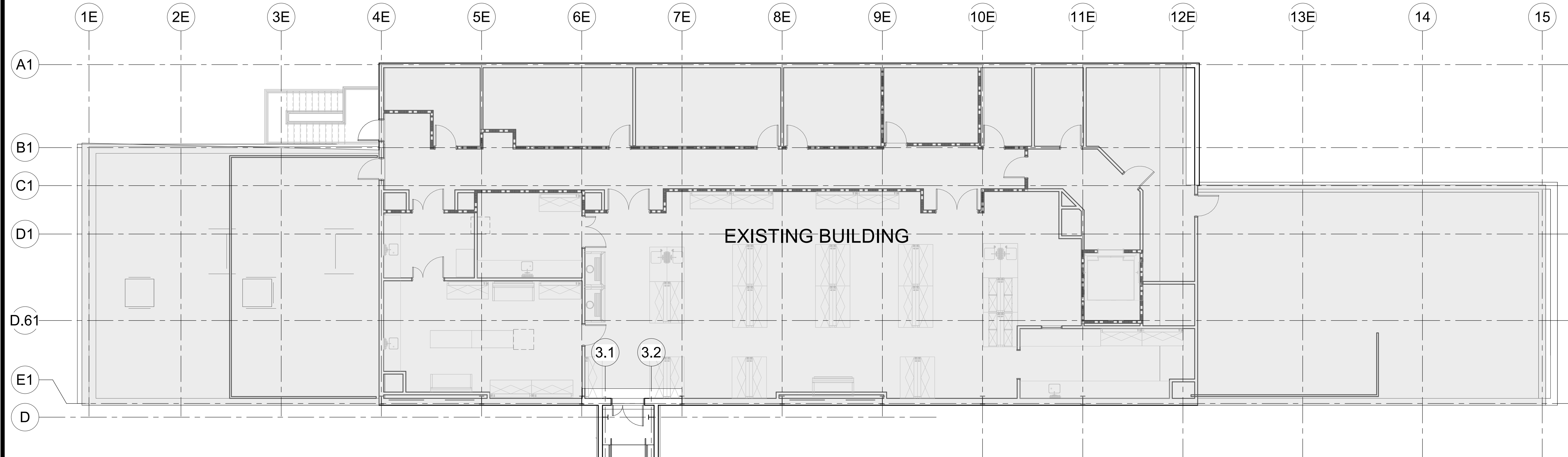
NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D		ISSUED FOR OWNER'S REVIEW	10.11.2024
C		DESIGN DEVELOPMENT	09.26.2024
B		50% DD SET	05.24.2024
A			05.10.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY: RM DATE: 11.08.2024
PROJECT NO.: 20230523 SCALE: 1/8" = 1'-0"

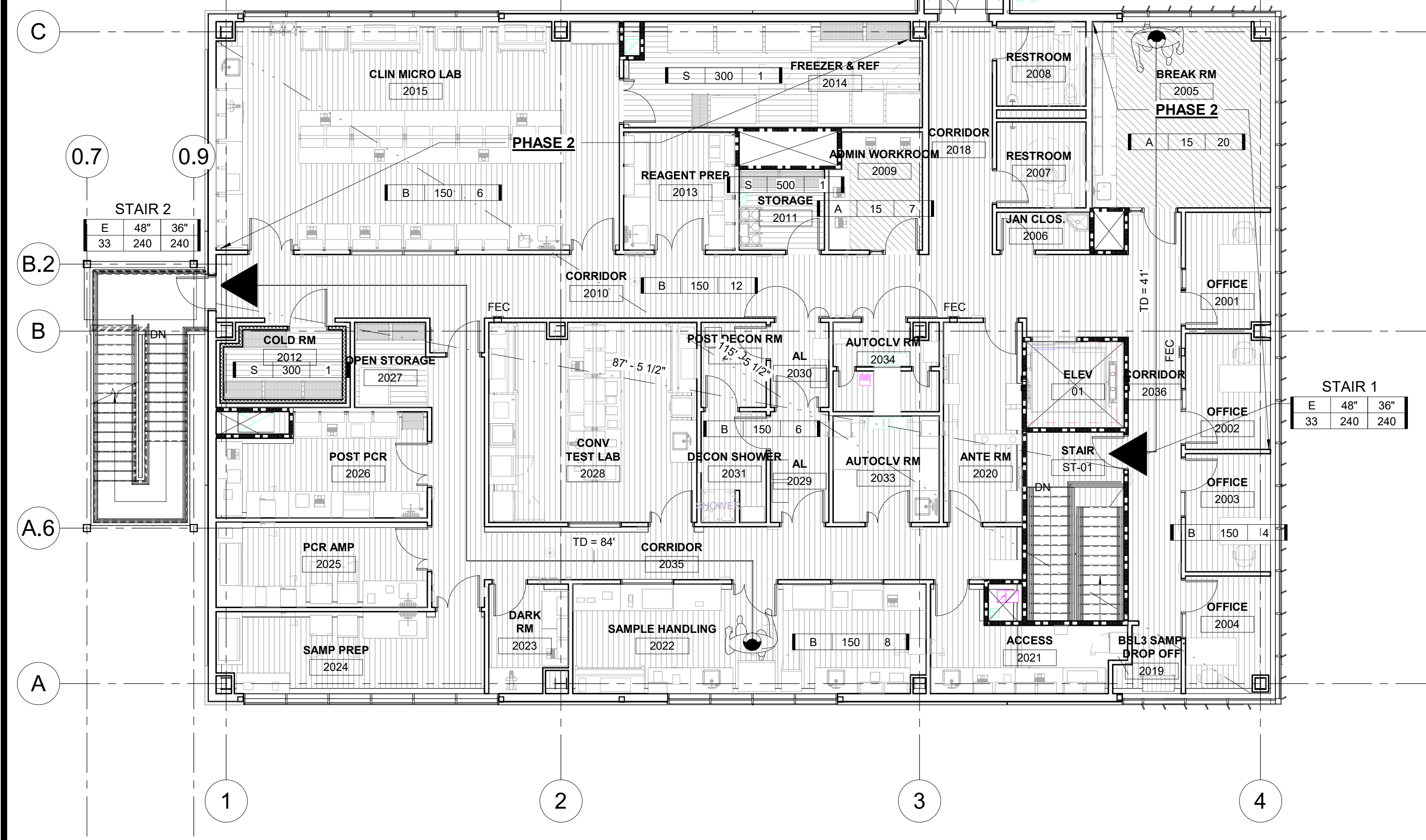
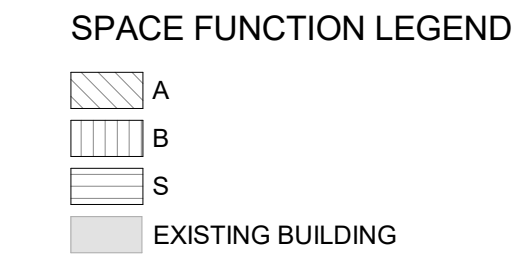
DRAWING NAME: LEVEL 2 LIFE SAFETY PLAN
FLOOR/SECTION PHASE: 2 CD DRAWING NO.: LS2.2

NOT FOR CONSTRUCTION



LS - LEVEL 2 - OCCUPANT LOAD

FUNCTION OF SPACE	AREA (SF)	OCCUPANT LOAD FACTOR (SF / OCC)	OCCUPANT LOAD
A	392	15	27
B	5292	150	36
S	443	300	2
S	65	500	1
	6192		66



LS - LEVEL 2 - EXIT ELEMENTS

EXIT #	DOOR CLEAR WIDTH (IN)	STAIR CLEAR WIDTH (IN)	DOOR EGRESS WIDTH FACTOR (IN / OCC)	STAIR EGRESS WIDTH FACTOR (IN / OCC)	DOOR CAPACITY (OCCUPANTS)	STAIR CAPACITY (OCCUPANTS)	LIMITING CAPACITY (OCCUPANTS)	OCCUPANTS USING EXIT	SPARE EXIT CAPACITY
STAIR 1	36"	48"	0.15	0.2	240	240	240	33	207
STAIR 2	36"	48"	0.15	0.2	240	240	240	33	207
Grand total							480	66	414

1 LEVEL 2 LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"

11/8/2024 11:45:31 AM Autodesk Docs://20230523 - South Nevada Health District MLK BLDG - 3 LAB/20230523_A22_CENTRAL.rvt

CITY OF LAS VEGAS GENERAL NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 'UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA', LATEST ISSUE, THE 'UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA', LATEST REVISED EDITION, THE 'SUMMERLIN IMPROVEMENT STANDARDS' FOR WORK IN THE SUMMERLIN AREA, AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY, THE 'UNIFORM BUILDING CODE', AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS 'DEVIATIONS FROM STANDARDS'.
- THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES AS SHOWN FROM CLV PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCE WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER OR OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
- ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS. ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
- TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGN TO BE APPROVED BY THE QUALITY CONTROL DIVISION, PRIOR TO THE USE ON THE PROJECT.
- PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
- EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED-TYPE CURB.
- AC PAVEMENT TO BE 1/2" ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS.
- CURB AND GUTTER WITH A GRADE OF LESS THAN FOUR-TENTHS OF ONE PERCENT SHALL BE WATER-TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION. ANY CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY SHALL BE REMOVED AND REPLACED PER USD 216.
- SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER USD 235, CASE I. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY PROJECT REPRESENTATIVE.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF TRANSITIONS TO BE AS SHOWN ON PLANS, OR AS DESIGNATED IN THE FIELD BY CITY PROJECT REPRESENTATIVE.
- EXACT LOCATION OF ALL SAWCUT LINES MAY BE DETERMINED IN THE FIELD BY A CITY PROJECT REPRESENTATIVE IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED, AND SHALL BE DONE ONLY BY A NEVADA PROFESSIONAL LAND SURVEYOR IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS - CLARK COUNTY AREA. A RECORD-OF-SURVEY FOR REPLACEMENT OF PERMANENT SURVEY MONUMENTS SHALL BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL PRIOR TO RECORDING. THE RECORD-OF-SURVEY SHALL BE PREPARED IN ACCORDANCE WITH NEVADA REVISED STATUTES 625.350.
- UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE AFFECTED UTILITY COMPANY AND THE CITY ENGINEER.
- ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONSHIPS, FLOOD CONTROL AND SIGHT DISTANCE AT INTERSECTIONS. NEW WALLS REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE CLV BUILDING DEPARTMENT.
- ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHTS OF WAY.
- CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, SEWER CLEANOUTS, ETC. TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.
- MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF MDOT AND CLARK COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.
- WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS MARKER BALLS, LOCATING RIBBON, ETC., THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO THE ENGINEER CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.
- CCTV VIDEO INSPECTION IS REQUIRED FOR ALL SEWER AND STORM DRAINS. THE CCTV VIDEO INSPECTIONS NEED TO BE PERFORMED PER THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS LATEST ADDITION.
- A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

REVISED MAY 10, 2021 (CPM VERSION)

CITY OF LAS VEGAS GRADING NOTES

- IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.
- CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION. ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.
- THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.
- ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
- THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.
- THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
- IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, SUCH ITEM SHALL BE PROVIDED AS DIRECTED BY THE CITY ENGINEER, AT NO EXPENSE TO THE CITY OF LAS VEGAS. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

REVISED APRIL 13, 2015 (CPM VERSION)

LVVWD STANDARD NOTES

(REVISED 01/27/2021)

- NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. **WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT# IDENTIFIED ABOVE.**
- ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). **THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.**
- ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.
- A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
- ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
- ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
- ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
- ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.
- ALL WATER FACILITIES AND APPURTENANCES SHALL BE DISINFECTED, PRESSURE TESTED, AND HAVE ACCEPTABLE PASSING HEALTH WATER SAMPLE OBTAINED, PRIOR TO OPERATION AND USE.
- THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3802, TWO (2) WORKING DAYS PRIOR TO METER PICKUP.
- ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
- ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD APPROVED PRODUCTS LIST (APL) FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS BY SUBMITTING SHOP DRAWINGS.
- TELEPHONE **USA NORTH** 811 "CALL BEFORE YOU DIG" AT "811" OR 1-800-642-2444
- THE INSTALLATION OF LVVWD MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVVWD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.

ANY DECORATIVE PAVING SURFACE WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNERS ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNERS IF NO OWNERS ASSOCIATION IS IN EXISTENCE, OR THE AGENCY HAVING JURISDICTION. DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ABUTTING A PUBLIC OR PRIVATE STREET, IF DISTURBED BY THE LVVWD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LVVWD WITH AN APPROPRIATELY SIZED PLAIN FINISH CONCRETE PATCH. THE LVVWD WILL NOT RESTORE, AND WILL NOT BE RESPONSIBLE FOR THE RESTORATION OF, ANY DECORATIVE PAVING SURFACE WITHIN THE STREET. THE LVVWD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.

15. NO LEAD COMPLIANCE NOTE:
TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, ALL WATER WORKS BRASS PRODUCTS PROPOSED TO BE RELOCATED, OR INSTALLED AS NEW MUST BE INSTALLED WITH THE LEAD FREE APPROVED PRODUCT. THE OLD LEADED PRODUCT MAY NOT BE REUSED.

- PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS PLATES. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.
- DRY UTILITY NOTES:** MAINTAIN A MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSINGS. MAINTAIN A MINIMUM OF 3' PARALLEL SEPARATION.

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT. THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF LAS VEGAS IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

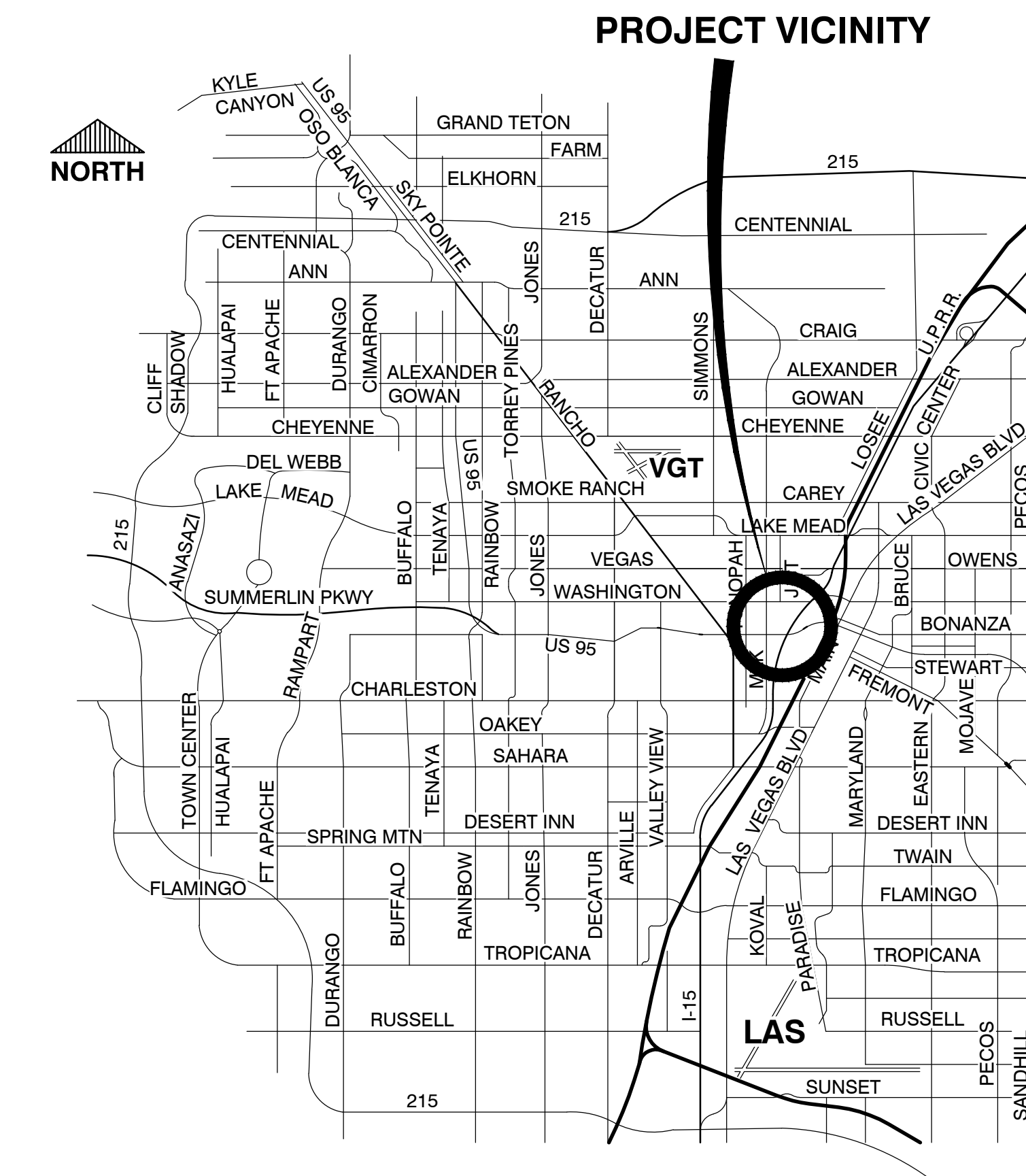
MATTHEW J. SEMIC R.C.E. NO. 031557 EXP. 06-30-26 DATE

LATITUDE 33 PLANNING AND ENGINEERING

10731 TREENA STREET
 SAN DIEGO, CA 92131
 858-875-1704
 MATT.SEMIC@LATITUDE33.COM

VICINITY MAP

NOT TO SCALE



PROJECT VICINITY

BASIS OF BEARINGS

SOUTH 00°23'44" WEST BEING THE BEARING OF THE WEST LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 61 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN IN FILE 120 OF PARCEL MAPS, PAGE 81, OFFICIAL RECORDS, CLARK COUNTY, NEVADA.

BENCHMARK

CLV BM#7LV0133W6 NAVD 2008
 RIVET AND PLATE IN TOP OF CURB IN NW RETURN
 OF ALTA DRIVE AND SHADOW LANE.
 ELEVATION=2052.72 FEET - 625.67 METERS



401 West A Street, Suite 320
 San Diego, CA 92101
 Tel. 949-417-7550

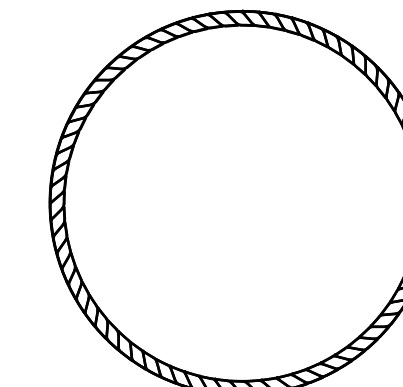
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 CONSULTANTS



KEY PLAN

PRINCIPAL
 MATTHEW SEMIC
 RESEARCH PLANNER

ENGINEER
 VANESSA BOLLES
 DESIGNER
 PU, KC, MM



REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D		ISSUED FOR OWNER'S REVIEW	10.11.2024
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Southern Nevada Health District
 700 South M.L.K. Blvd
 Las Vegas, NV 89106

DRAWN BY PU, KC, MM DATE 11/11/2024

PROJECT NO. 20230523 SCALE NOTED

DRAWING NAME

CIVIL NOTES

FLOOR/SECTION PHASE

DRAWING NO.

NOT FOR CONSTRUCTION

C-001

DEMOLITION LEGED

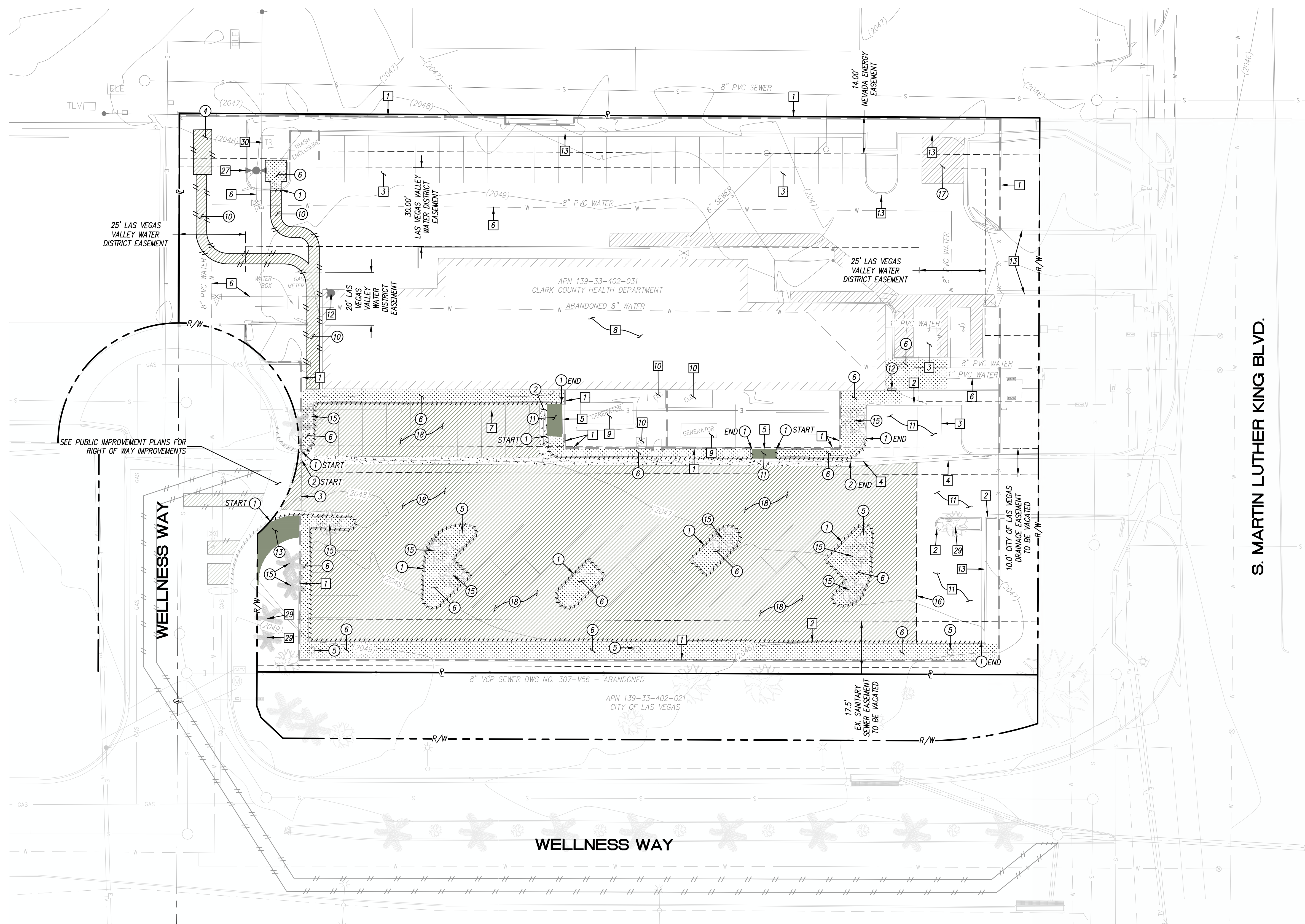
- DEMOLISH EXISTING CURB
- SAWCUT LIMITS
- REMOVE EXISTING ASPHALT CONCRETE
- REMOVE EXISTING LANDSCAPING/GRAVEL
- DEMOLISH EXISTING CONCRETE
- DEMOLISH EXISTING RIBBON GUTTER

DEMOLITION NOTES

- 1 DEMOLISH EXISTING CURB AND BASE MATERIAL.
- 2 DEMOLISH EXISTING RIBBON GUTTER AND BASE MATERIAL.
- 3 DEMOLISH EXISTING ROLLING GATE.
- 4 DEMOLISH EXISTING ASPHALT CONCRETE AND BASE MATERIAL FOR PROPOSED GENERATOR PAD. SEE ELECTRICAL PLANS FOR GENERATOR PAD.
- 5 REMOVE EXISTING LIGHT POLE AND ASSOCIATED FOOTING, CONDUIT, BOXES, ETC.
- 6 REMOVE EXISTING LANDSCAPE/GRAVEL/DECORATIVE BOULDERS. STORE EXISTING GRAVEL AND DECORATIVE BOULDERS FOR USE IN PROPOSED LANDSCAPE AREAS.
- 10 TRENCH EXISTING ASPHALT CONCRETE FOR PROPOSED UTILITY.
- 11 DEMOLISH EXISTING CONCRETE AND BASE MATERIAL.
- 12 DEMOLISH PORTION OF EXISTING WALL, COORDINATE DEMOLITION DETAILS WITH STRUCTURAL ENGINEER.
- 15 DEMOLISH EXISTING SIDEWALK/CURB RAMP AND BASE MATERIAL.
- 16 DEMOLISH EXISTING TREE.
- 17 REMOVE/SANDBLAST EXISTING STRIPING.
- 18 DEMOLISH EXISTING ASPHALT CONCRETE AND BASE MATERIAL.

PROTECT IN PLACE NOTES

- 1 PROTECT IN PLACE EXISTING WALL.
- 2 PROTECT IN PLACE EXISTING CURB.
- 3 PROTECT IN PLACE EXISTING STRIPING.
- 4 PROTECT IN PLACE EXISTING RIBBON GUTTER.
- 5 PROTECT IN PLACE EXISTING METAL GATE.
- 6 PROTECT IN PLACE EXISTING WATER PIPE.
- 7 PROTECT IN PLACE EXISTING ELECTRICAL CONDUIT.
- 8 PROTECT IN PLACE EXISTING BUILDING.
- 9 PROTECT IN PLACE EXISTING ELECTRICAL GENERATOR.
- 10 PROTECT IN PLACE EXISTING ELECTRICAL APPURTENANCES.
- 11 PROTECT IN PLACE EXISTING AC PAVING.
- 12 PROTECT IN PLACE EXISTING FIRE DEPARTMENT CONNECTION.
- 13 PROTECT IN PLACE EXISTING CURB AND GUTTER.
- 27 PROTECT IN PLACE EXISTING FIRE HYDRANT.
- 29 PROTECT IN PLACE EXISTING TREE.
- 30 PROTECT IN PLACE EXISTING TRANSFORMER.



KEY PLAN

PRINCIPAL
MATTHEW SEMIC
RESEARCH PLANNER

ENGINEER
VANESSA BOLLES
DESIGNER
PU, KC, MM

REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D			10.11.2024
C		ISSUED FOR OWNER'S REVIEW	09.26.2024
B		DESIGN DEVELOPMENT	05.24.2024
A		50% DD SET	05.10.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

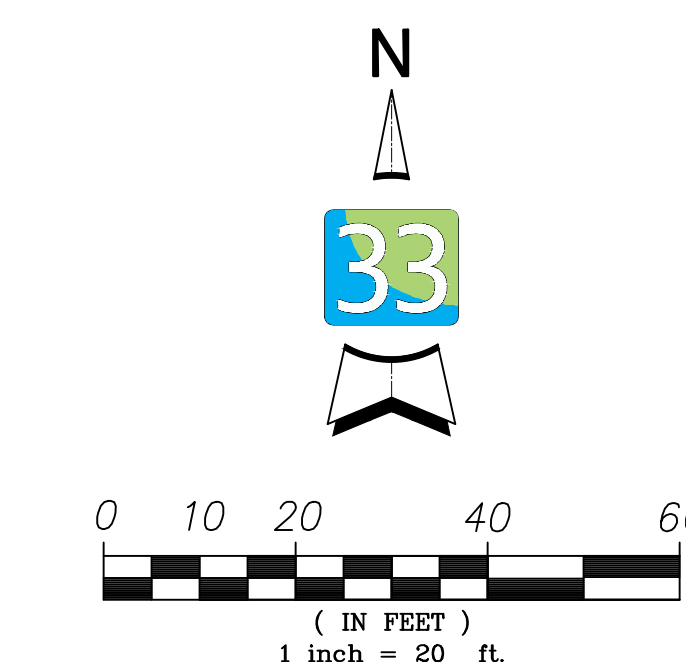
DRAWN BY PU, KC, MM DATE 11/11/2024

PROJECT NO. 20230523 SCALE NOTED

DRAWING NAME

DEMOLITION PLAN

FLOOR/SECTION PHASE DRAWING NO.



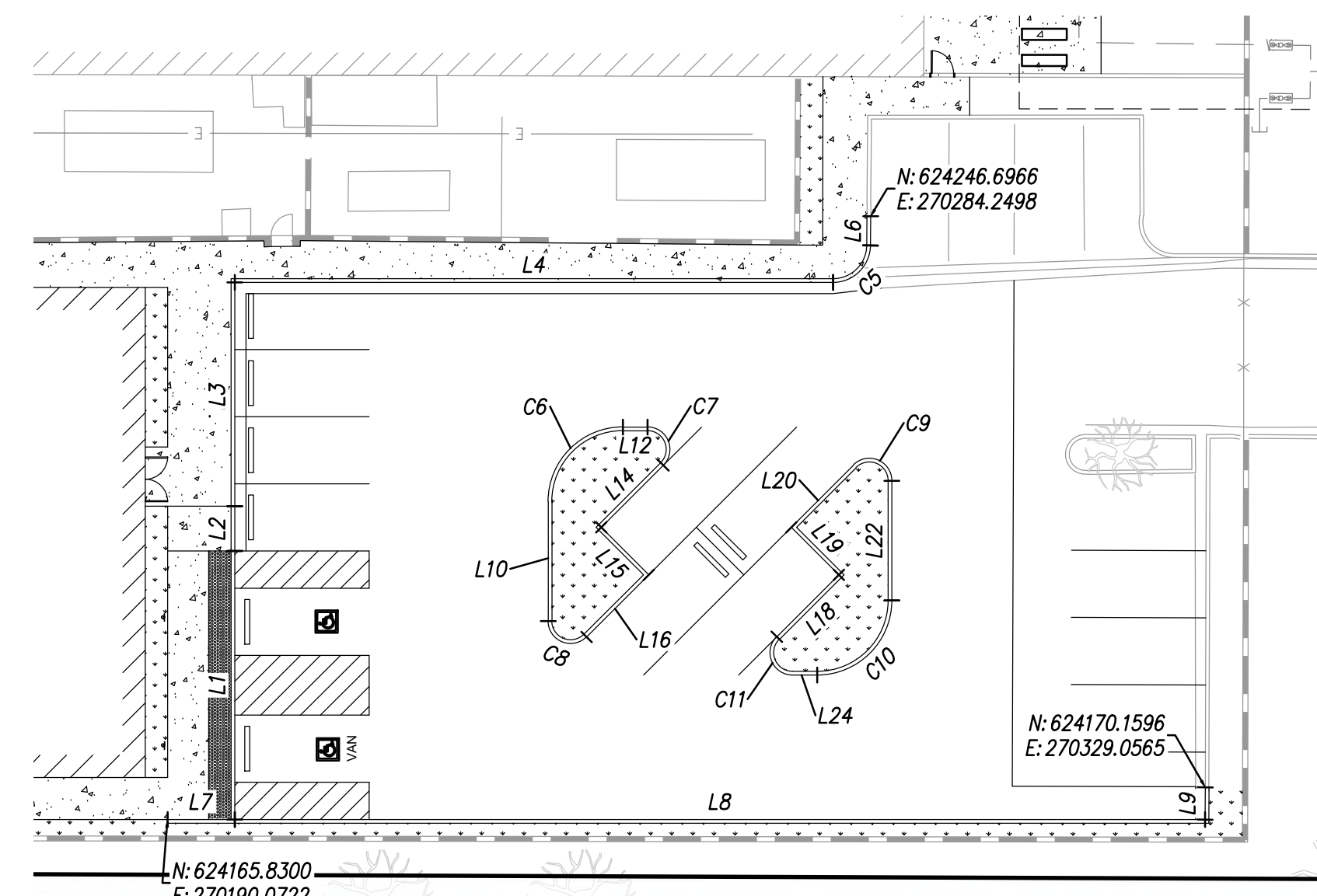
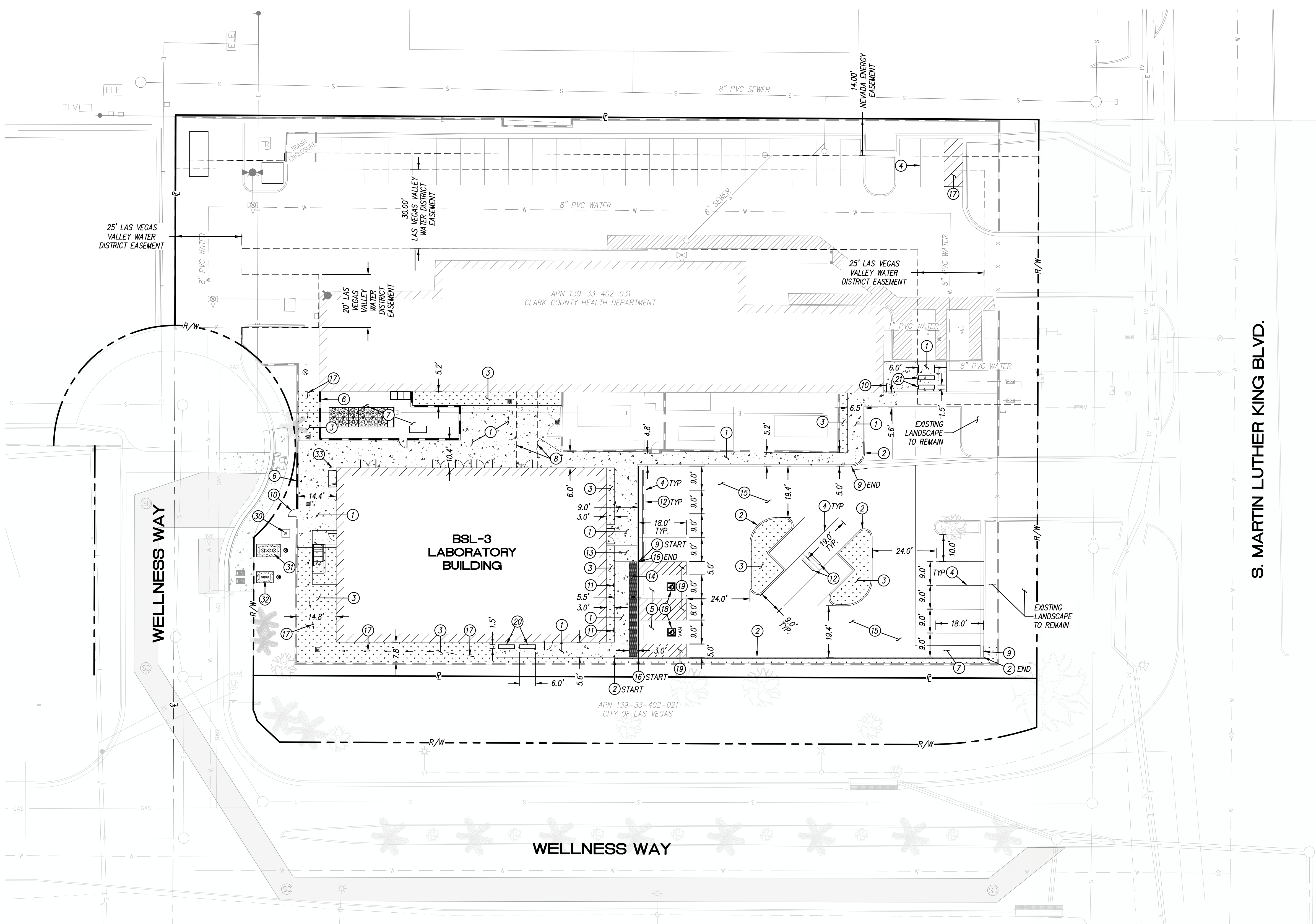
NOT FOR CONSTRUCTION

IMPROVEMENTS LEGED

- PROPOSED 6" CURB
- PROPOSED 6" CURB & GUTTER
- PROPOSED WALL
- PROPOSED CONCRETE SIDEWALK
- PROPOSED LANDSCAPING
- PROPOSED AC PAVING
- PROPOSED BUILDING

CONSTRUCTION NOTES

- 1) PROPOSED PCC SIDEWALK PER USDCCA DWG. NO. 234.
- 2) PROPOSED 6" TYPE "A" CURB PER USDCCA DWG. NO. 219.
- 3) PROPOSED LANDSCAPING/GRAVEL. RE-USE EXISTING GRAVEL (REMOVED AND STORED PER DEMOLITION PLAN).
- 4) PROPOSED 4" WHITE STRIPING.
- 5) PROPOSED ADA PARKING STALL, SEE DETAIL 3, SHEET C-501 FOR STRIPING.
- 6) PROPOSED 8" CMU WALL PER STRUCTURAL PLANS.
- 7) PROPOSED SERVICE YARD PER MECHANICAL PLANS.
- 8) PROPOSED CONNECTION CORRIDOR (OVERHEAD) PER ARCHITECTURAL PLANS.
- 9) PROPOSED 6" TYPE "L" CURB AND GUTTER PER USDCCA DWG. NO. 216.
- 10) PROPOSED GATE PER ARCHITECTURAL PLANS.
- 11) PROPOSED ACCESSIBLE PARKING SIGN PER DETAIL 5, SHEET C-501.
- 12) PROPOSED WHEEL STOP PER DETAIL 2, SHEET C-501.
- 13) PROPOSED RAMP, SEE GRADING PLAN FOR DETAILS.
- 14) PROPOSED 3" WIDE DETECTABLE WARNING SURFACE USDCCA DWG. NO. 235 (SHEET 4 OF 4).
- 15) PROPOSED ASPHALT CONCRETE PAVEMENT PER DETAIL 9, SHEET C-501.
- 16) PROPOSED 0" CURB PER DETAIL 1, SHEET C-501.
- 17) PROPOSED SWALE PER DETAIL 8, SHEET C-501.
- 18) PROPOSED ACCESSIBLE STALL STRIPING (ISA SYMBOL) PER DETAIL 4, SHEET C-501.
- 19) PROPOSED 45 DEGREE HATCHED STRIPING PER DETAIL 3, SHEET C-501.
- 20) PROPOSED SHORT TERM BICYCLE PARKING PER ARCHITECTURAL PLANS.
- 21) PROPOSED LONG TERM BICYCLE PARKING PER ARCHITECTURAL PLANS.
- 22) PROPOSED FIRE DEPARTMENT CONNECTION (ABOVE GRADE) PER UTILITY PLAN.
- 23) PROPOSED FIRE WATER BACKFLOW PREVENTOR (ABOVE GRADE) PER UTILITY PLAN.
- 24) PROPOSED DOMESTIC WATER BACKFLOW PREVENTOR (ABOVE GRADE) PER UTILITY PLAN.
- 25) PROPOSED GAS PAD (ABOVE GRADE) PER PLUMBING PLAN.



CURB DATA DETAIL

CURB DATA TABLE - LINE			
LINE NO.	LENGTH	BEARING	REMARKS
L1	36.00'	N0° 00' 00"E	PROPOSED 0" CURB PER DETAIL 1, C-501
L2	6.00'	N0° 00' 00"E	0" TO 6" CURB TRANSITION
L3	30.00'	N0° 00' 00"E	6" TYPE "L" C&G PER USDCCA DWG. NO. 216
L4	80.15'	N90° 00' 00"E	6" TYPE "L" C&G PER USDCCA DWG. NO. 216
L6	3.91'	N0° 28' 00"E	6" TYPE "A" CURB PER USDCCA DWG. NO. 219
L7	9.00'	N90° 00' 00"E	0" TO 6" CURB TRANSITION
L8	129.97'	N90° 00' 00"E	6" TYPE "A" CURB PER USDCCA DWG. NO. 219
L9	4.33'	N0° 10' 33"E	6" TYPE "L" C&G PER USDCCA DWG. NO. 216
L10	16.02'	S0° 00' 00"E	6" TYPE "A" CURB PER USDCCA DWG. NO. 219
L12	3.29'	N90° 00' 00"W	6" TYPE "A" CURB PER USDCCA DWG. NO. 219
L14	11.76'	N45° 00' 00"E	6" TYPE "A" CURB PER USDCCA DWG. NO. 219
L15	9.00'	N45° 00' 00"W	6" TYPE "A" CURB PER USDCCA DWG. NO. 219
L16	11.79'	N45° 00' 00"E	6" TYPE "A" CURB PER USDCCA DWG. NO. 219
L18	11.76'	S45° 00' 00"W	6" TYPE "A" CURB PER USDCCA DWG. NO. 219
L19	9.00'	S45° 00' 00"E	6" TYPE "A" CURB PER USDCCA DWG. NO. 219
L20	11.79'	S45° 00' 00"W	6" TYPE "A" CURB PER USDCCA DWG. NO. 219
L22	16.02'	N0° 00' 00"E	6" TYPE "A" CURB PER USDCCA DWG. NO. 219
L24	3.29'	N90° 00' 00"E	6" TYPE "A" CURB PER USDCCA DWG. NO. 219

CURB DATA TABLE - CURVE				
CURVE NO.	DELTA	RADIUS	LENGTH	REMARKS
C5	89.53	5.00'	7.81'	6" TYPE "A" CURB PER USDCCA DWG. NO. 219
C6	90.00	10.00'	15.71'	6" TYPE "A" CURB PER USDCCA DWG. NO. 219
C7	135.00	3.00'	7.07'	6" TYPE "A" CURB PER USDCCA DWG. NO. 219
C8	135.00	3.00'	7.07'	6" TYPE "A" CURB PER USDCCA DWG. NO. 219
C9	135.00	3.00'	7.07'	6" TYPE "A" CURB PER USDCCA DWG. NO. 219
C10	90.00	10.00'	15.71'	6" TYPE "A" CURB PER USDCCA DWG. NO. 219
C11	135.00	3.00'	7.07'	6" TYPE "A" CURB PER USDCCA DWG. NO. 219

KEY PLAN

PRINCIPAL
MATTHEW SEMIC
RESEARCH PLANNER

ENGINEER
VANESSA BOLLES
DESIGNER
PU, KC, MM

REVISIONS		
NO.	DESCRIPTION	DATE
E	ISSUED FOR GC BIDDING	11.08.2024
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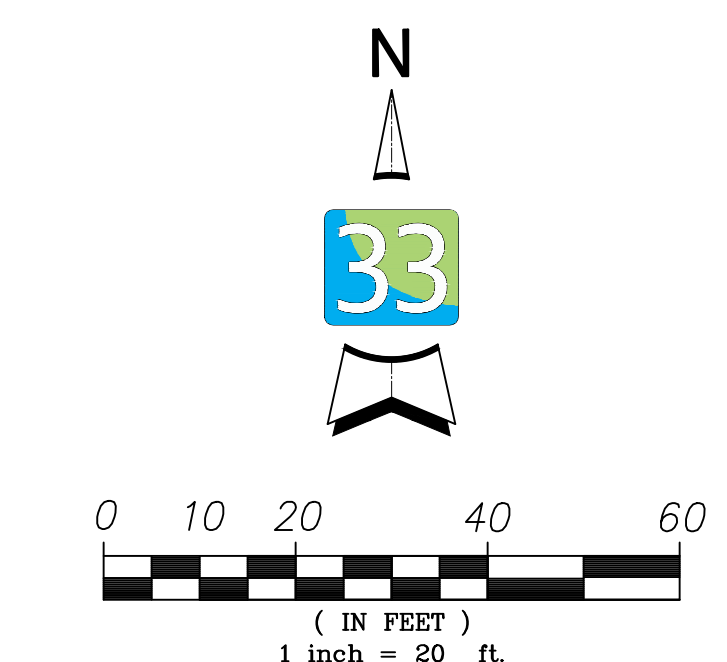
Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY: PU, KC, MM DATE: 11/11/2024

PROJECT NO.: 20230523 SCALE: NOTED

SITE PLAN

FLOOR/SECTION PHASE DRAWING NO.



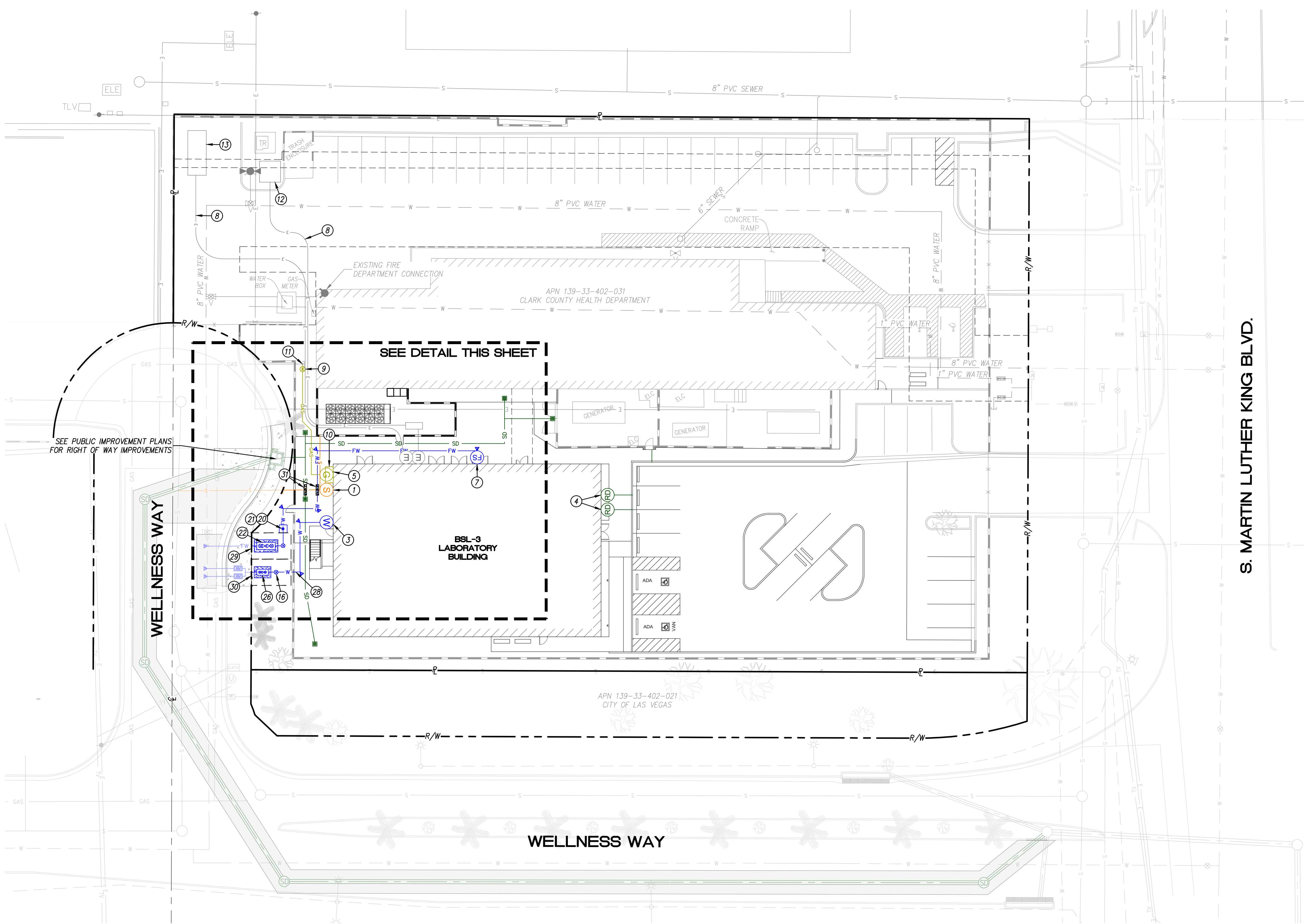
NOT FOR CONSTRUCTION

UTILITY LEGED

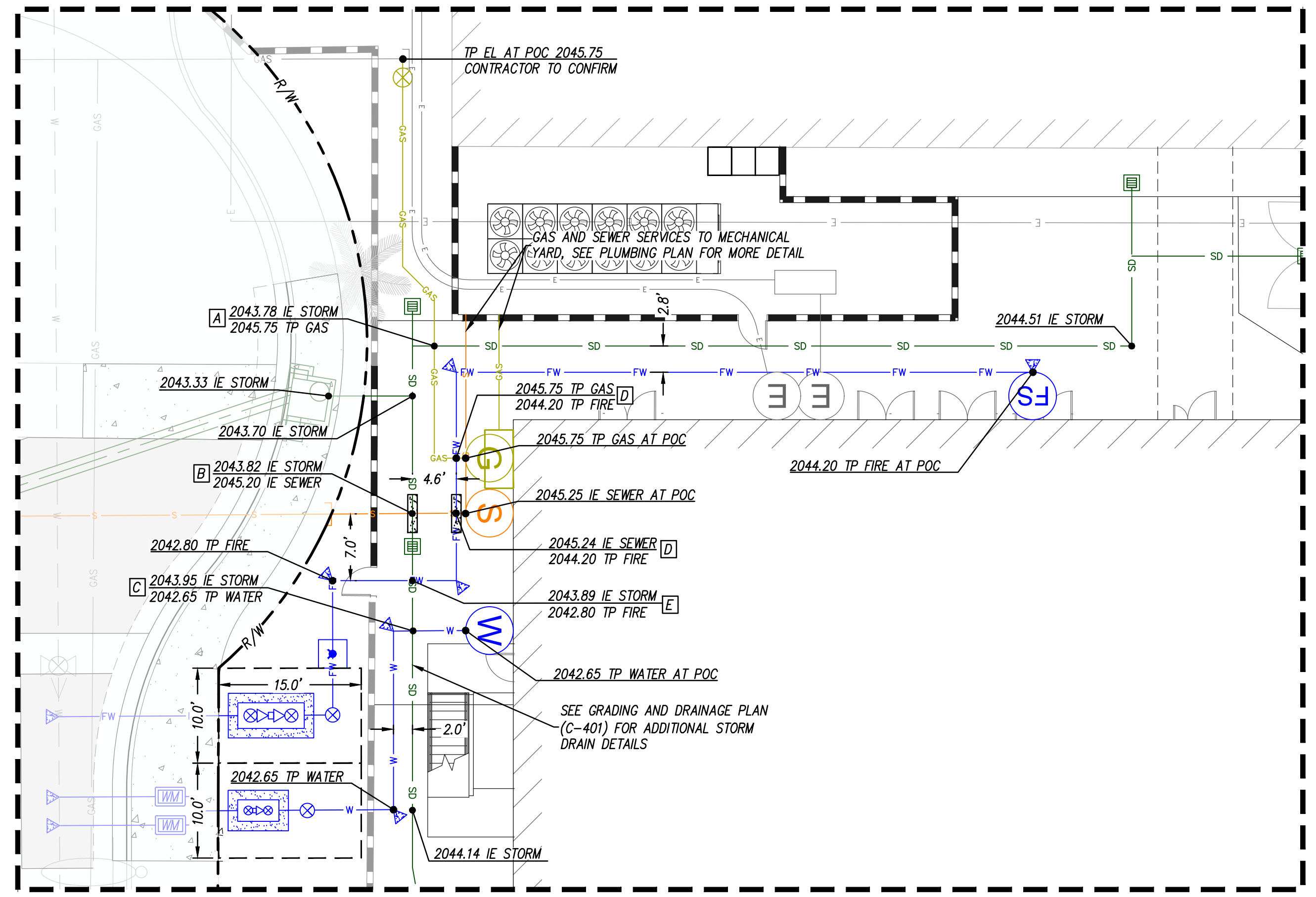
- PROPOSED 4" PVC SEWER —
- PROPOSED DOMESTIC WATER —
- PROPOSED FIRE SERVICE —
- PROPOSED NATURAL GAS —
- PROPOSED STORM DRAIN (PER GRADING AND DRAINAGE PLAN) —
- PROPOSED ELECTRICAL CONDUIT (PER ELECTRICAL PLANS) —
- PROPOSED BACKFLOW PREVENTER S
- PROPOSED FDC S
- PROPOSED UTILITY POC S

CONSTRUCTION NOTES

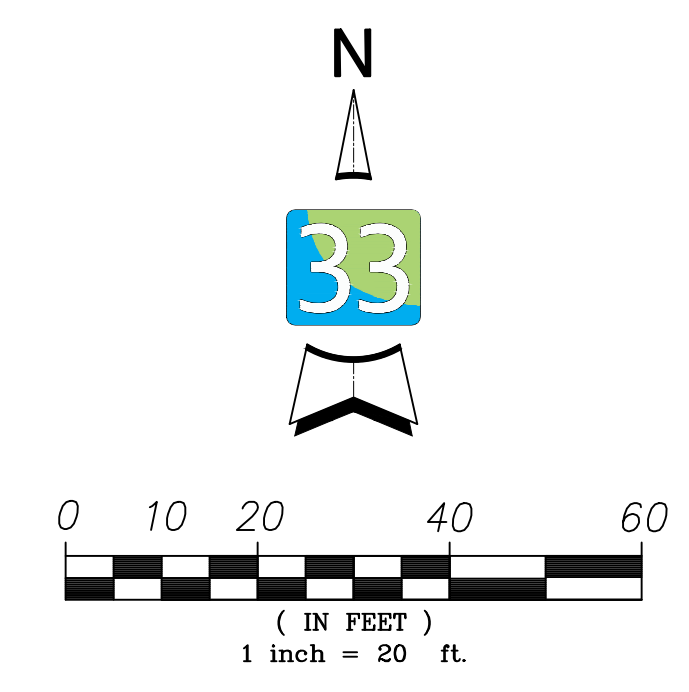
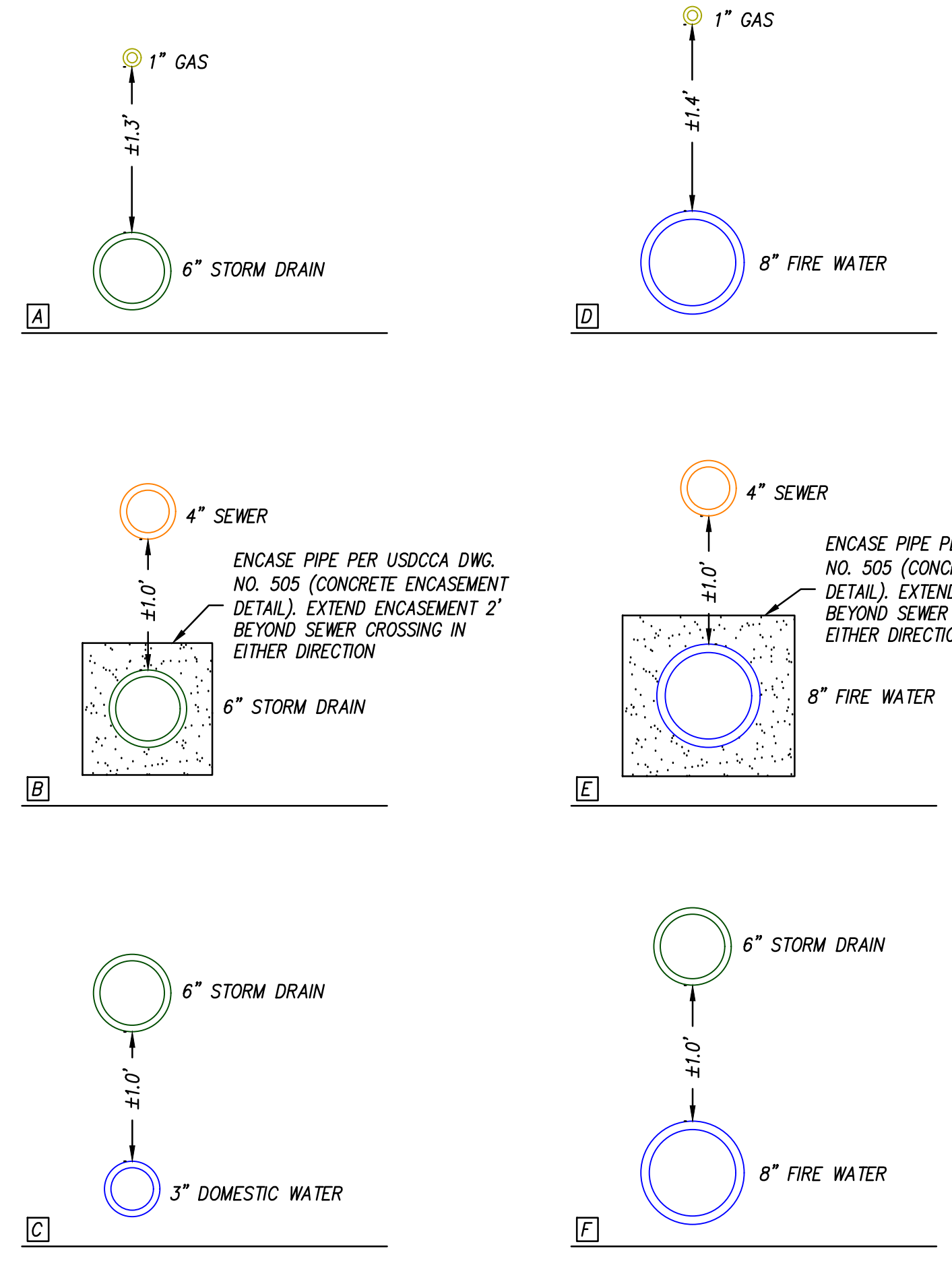
- 1 PROPOSED 4" PVC SEWER POC, SEE PLUMBING FOR CONTINUATION.
- 2 PROPOSED 3" DOMESTIC WATER SERVICE POC, SEE PLUMBING FOR CONTINUATION.
- 3 PROPOSED 3" ROOF DRAIN POC, SEE PLUMBING FOR CONTINUATION TO BUILDING. SEE GRADING AND DRAINAGE PLAN FOR POC ELEVATIONS.
- 4 PROPOSED 1" NATURAL GAS POC, SEE PLUMBING FOR CONTINUATION.
- 5 PROPOSED 8" PVC FIRE SERVICE POC, SEE PLUMBING FOR CONTINUATION.
- 6 PROPOSED ELECTRICAL CONDUIT PER ELECTRICAL PLANS.
- 7 PROPOSED GAS VALVE.
- 8 PROPOSED GAS METER AND PRESSURE REDUCER, SEE PLUMBING PLANS FOR DETAILS.
- 9 CONNECT TO EXISTING GAS SERVICE LATERAL.
- 10 PROPOSED TRANSFORMER PER ELECTRICAL PLANS.
- 11 PROPOSED GENERATOR PER ELECTRICAL PLANS.
- 12 PROPOSED INLINE GATE VALVE PER UDACS PLATE NO. 30 AND 39.
- 13 PROPOSED FIRE DEPARTMENT CONNECTION 3'x3' PAD.
- 14 PROPOSED FIRE DEPARTMENT CONNECTION.
- 15 PROPOSED 8" BACKFLOW PREVENTOR FOR FIRE SERVICE. BACKFLOW SHALL BE WATTS 957 REDUCED PRESSURE DETECTOR ASSEMBLY.
- 16 PROPOSED 4" COLT 400N REDUCED PRESSURE PRINCIPLE ASSEMBLY.
- 17 BORE UTILITY UNDER EXISTING WALL FOOTING.
- 18 PROPOSED 10'x15' EASEMENT TO THE LAS VEGAS VALLEY WATER DISTRICT FOR FIRE SERVICE BACKFLOW.
- 19 PROPOSED 10'x15' EASEMENT TO THE LAS VEGAS VALLEY WATER DISTRICT FOR DOMESTIC WATER SERVICE METER AND BACKFLOW.
- 20 ENCASE PIPE PER USDOCA DWG. NO. 505 (CONCRETE ENCASEMENT DETAIL). EXTEND ENCASEMENT 2' BEYOND SEWER CROSSING IN EITHER DIRECTION.



S. MARTIN LUTHER KING BLVD.



DETAIL

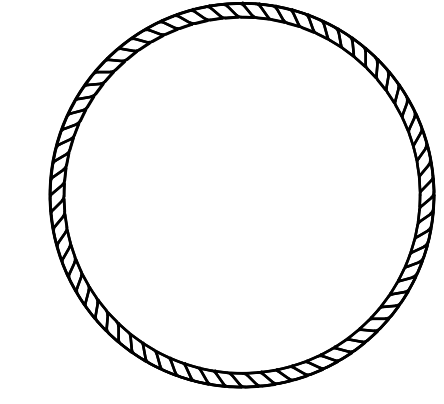


NOT FOR CONSTRUCTION

KEY PLAN

PRINCIPAL
MATTHEW SEMIC
RESEARCH PLANNER

ENGINEER
VANESSA BOLLES
DESIGNER
P.U., K.C., M.M.



REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
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B		50% DD SET	05.24.2024
A			05.10.2024

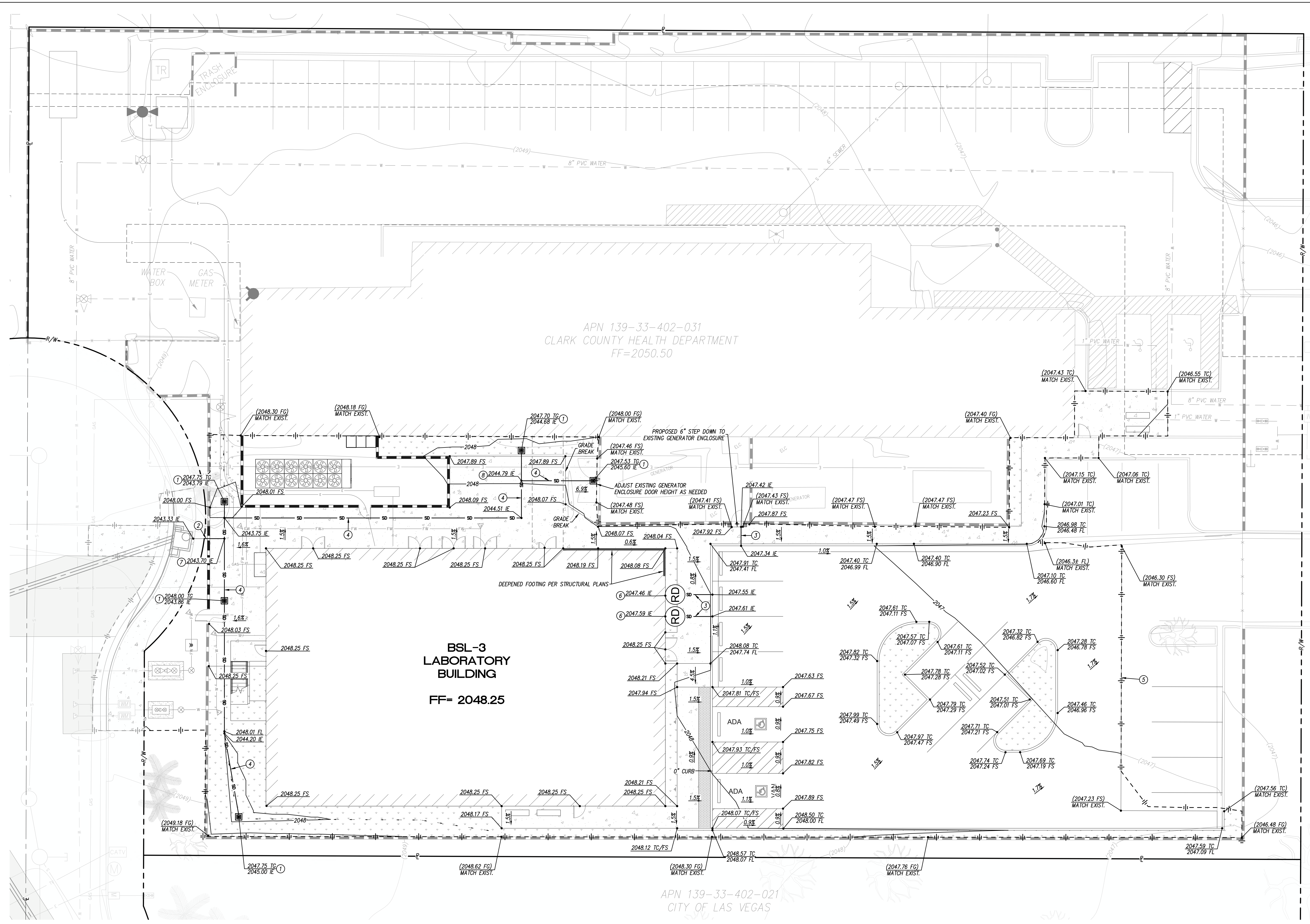
Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY: P.U., K.C., M.M. DATE: 11/11/2024

PROJECT NO.: 20230523 SCALE: NOTED

DRAWING NAME: UTILITY PLAN

FLOOR/SECTION PHASE: DRAWING NO. C-301



APN 139-33-402-031
CLARK COUNTY HEALTH DEPARTMENT
FF=2050.50

**BSL-3
LABORATORY
BUILDING**
FF= 2048.25

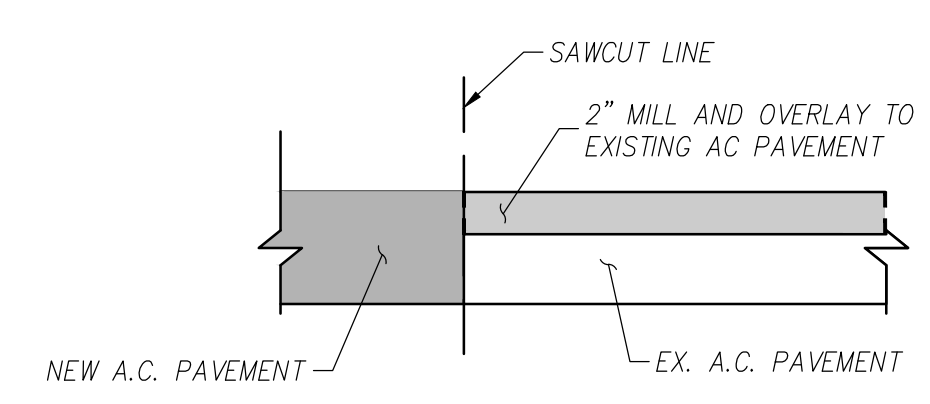
APN 139-33-402-021
CITY OF LAS VEGAS

GRADING AND STORM DRAIN NOTES

- PROPOSED CATCH BASIN INLET
- PROPOSED STORM DRAIN
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- GRADING LIMITS

GRADING AND STORM DRAIN NOTES

- 1 PROPOSED CATCH BASIN PER DETAIL 6, SHEET C-501.
- 2 PROPOSED 8" PVC STORM DRAIN AT 1.0% MIN. SLOPE.
- 3 PROPOSED 3" SIDEWALK DRAIN PIPE PER DETAIL 7, SHEET C-501.
- 4 PROPOSED 6" PVC STORM DRAIN AT 1.0% MIN. SLOPE.
- 5 PROPOSED SAWCUT LINE AND EDGE OF GRADING IMPROVEMENTS, SEE SECTION A-A THIS SHEET.
- 6 PROPOSED ROOF DRAIN POINT OF CONNECTION, SEE PLUMBING PLAN FOR CONTINUATION.
- 7 PROPOSED 6"x6"x8" TEE.
- 8 PROPOSED 6"x6"x6" TEE.



SECTION A-A
NTS

ESTIMATED EARTHWORK QUANTITIES

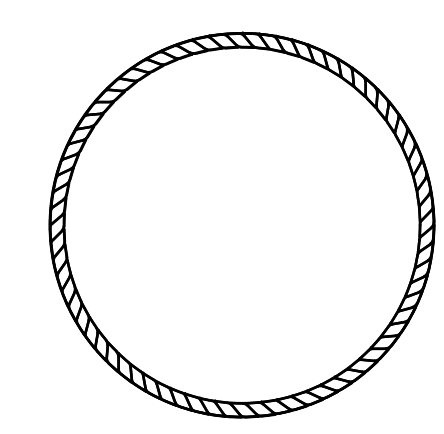
EARTHWORK COMPARISON:

EXISTING:	EXISTING FINISHED GRADE
PROPOSED:	PROPOSED FINISH SURFACE
CUT:	47 CY
FILL:	310 CY
NET EARTHWORK:	263 CY (IMPORT)

NOTES:

- THE ESTIMATED QUANTITIES ARE TO BE USED FOR JURISDICTIONAL PLAN CHECKING AND PERMITTING PURPOSES ONLY.
- ESTIMATED EARTHWORK IS BASED ON DESIGN FINISHED GRADES TO EXISTING FINISHED GRADES AND/OR CONTOURS AS PROVIDED ON THE BASE SURVEY. THE ESTIMATED EARTHWORK DOES NOT ACCOUNT FOR THE THICKNESS OF PAVEMENTS, FOUNDATIONS AND SLABS ON GRADE, FOOTINGS, UTILITY SPOOLS, DETENTION BASINS, LANDSCAPE STRUCTURAL SOILS, CLEARING AND GRUBBING, EXISTING PAVEMENT/LANDSCAPE REMOVAL, EXISTING FOOTING REMOVAL, OVEREXCAVATION AND RECOMPACTION, AND CONSTRUCTION MEANS AND METHODS.
- THE ESTIMATED EARTHWORK QUANTITIES DO NOT INCLUDE SHRINKAGE AND/OR EXPANSION FACTORS DUE TO COMPACTION OR OVER EXCAVATION QUANTITIES.
- ESTIMATED EARTHWORK QUANTITIES ASSUME THAT ALL ONSITE MATERIALS ARE SUITABLE FOR BACKFILLING, HOWEVER, ACTUAL EXISTING ON SITE MATERIALS AND IMPORTED MATERIALS MUST FIRST BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO INSTALLATION, REMOVAL OR REPLACEMENT.

KEY PLAN



PRINCIPAL
MATTHEW SEMIC
RESEARCH PLANNER

ENGINEER
VANESSA BOLLES
DESIGNER
PU, KC, MM

REVISIONS

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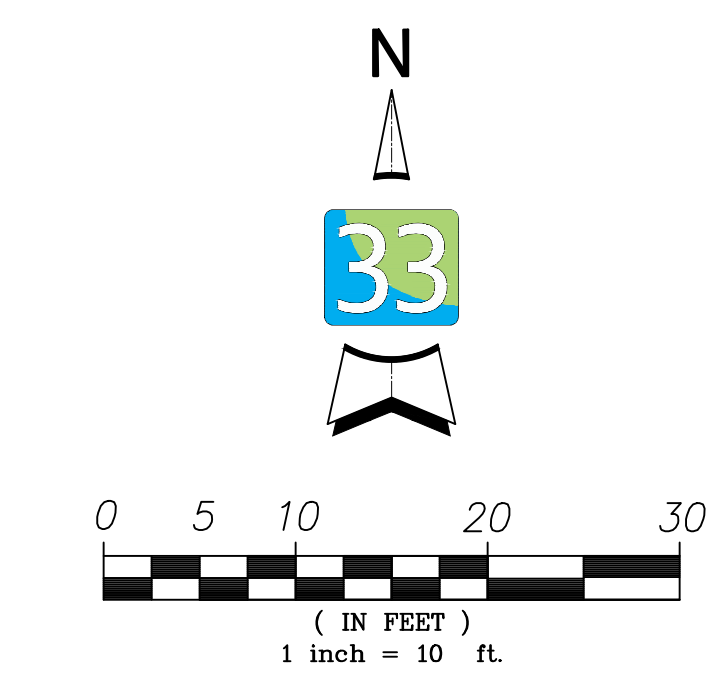
Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY: PU, KC, MM DATE: 11/11/2024

PROJECT NO.: 20230523 SCALE: NOTED

DRAWING NAME: GRADING AND STORM DRAIN PLAN

FLOOR/SECTION PHASE: DRAWING NO.: C-401



NOT FOR CONSTRUCTION

KEY PLAN

PRINCIPAL
MATTHEW SEMIC
RESEARCH PLANNER

ENGINEER
VANESSA BOLLES
DESIGNER
PU, KC, MM

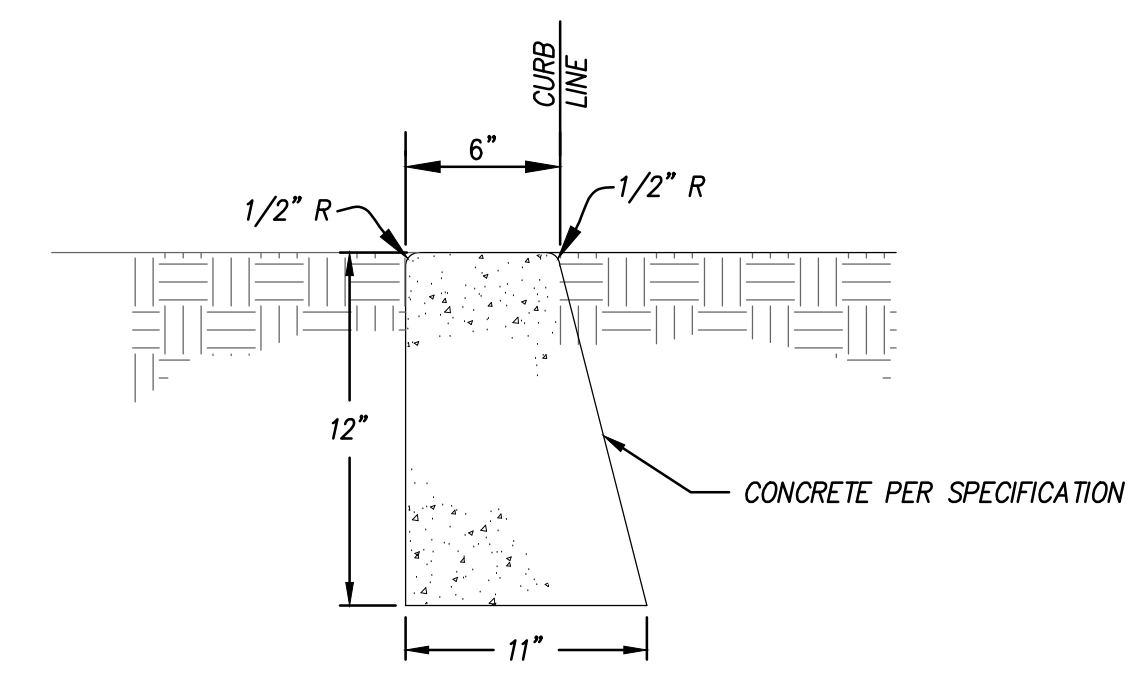
REVISIONS

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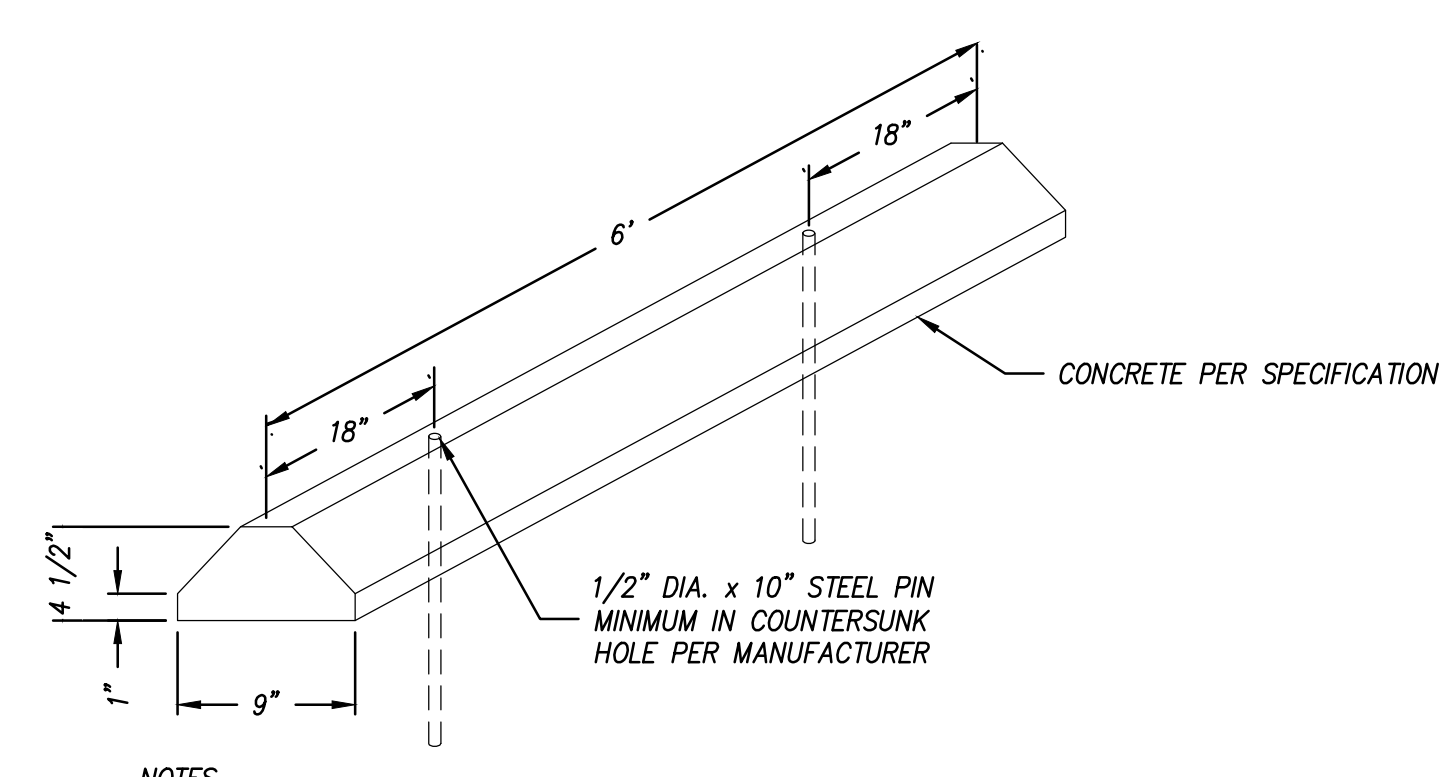
Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY: PU, KC, MM DATE: 11/11/2024
PROJECT NO.: 20230523 SCALE: NOTED
DRAWING NAME: CIVIL DETAILS

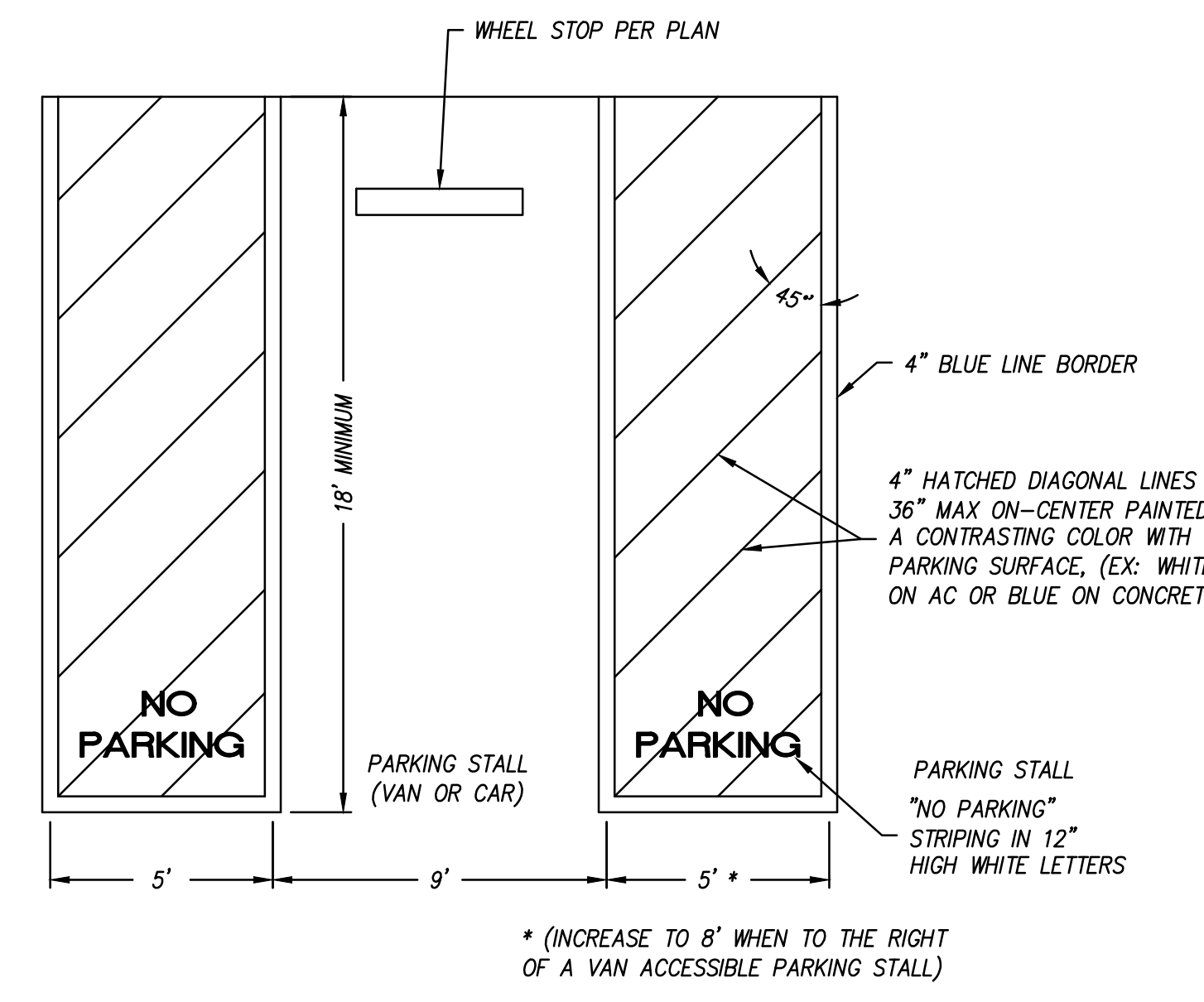
FLOOR/SECTION PHASE: DRAWING NO.: C-501



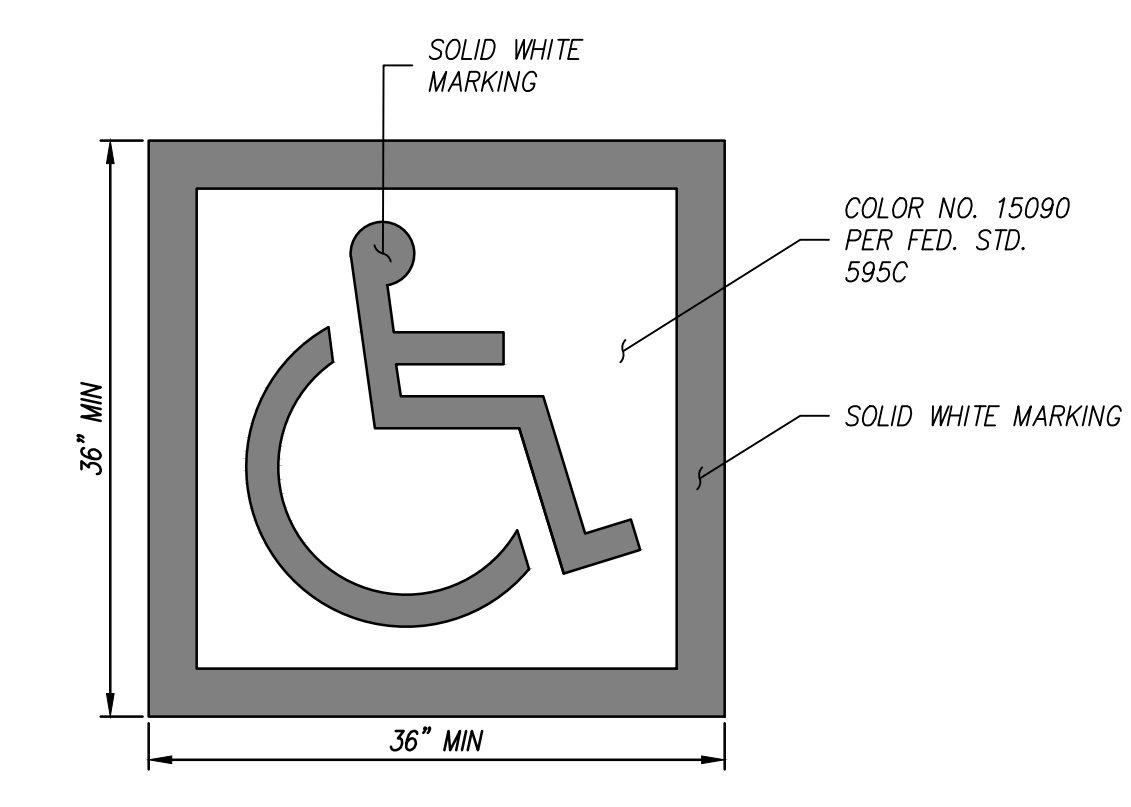
0" CURB
NTS



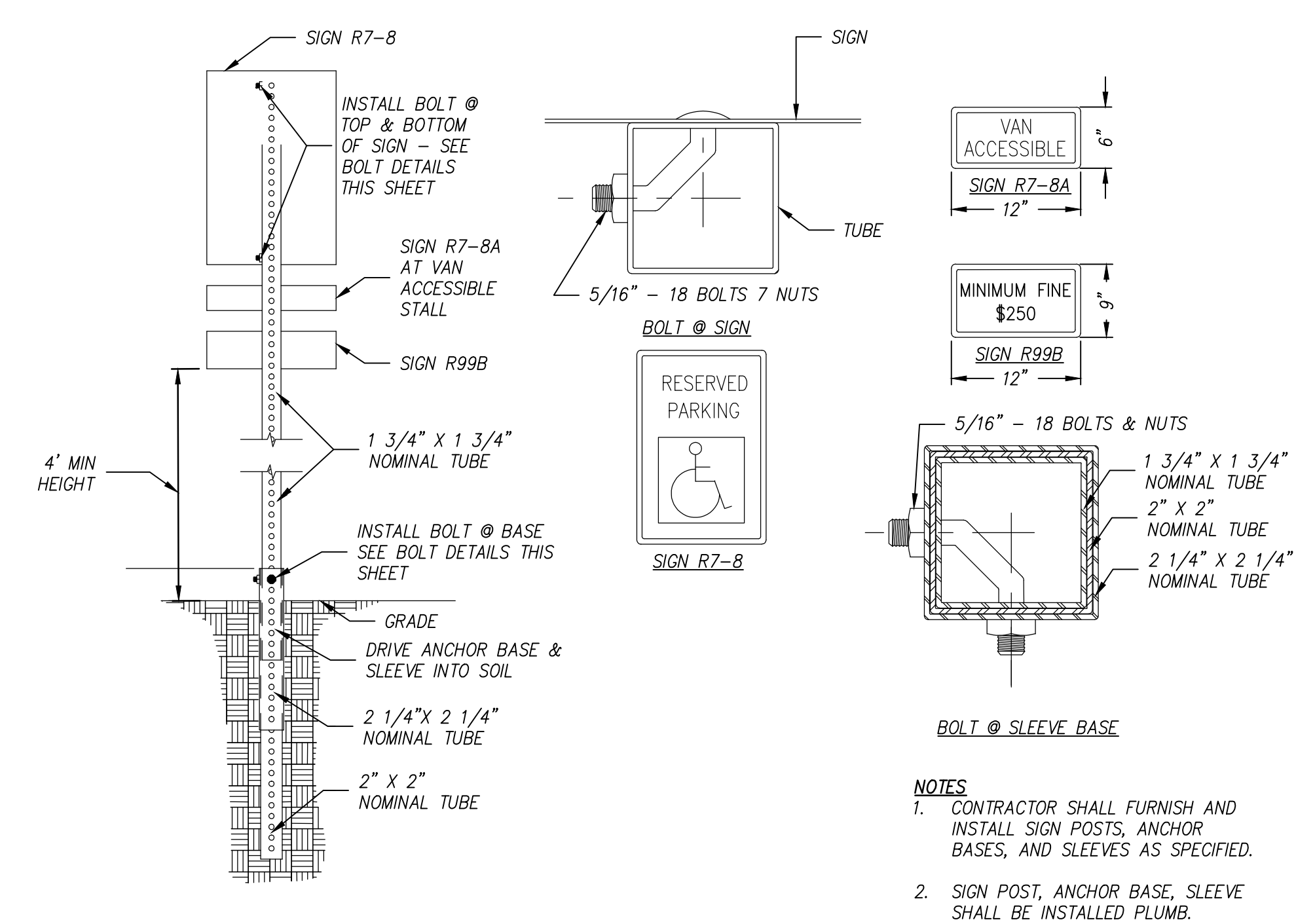
WHEEL STOP
NTS



ACCESS AISLE STRIPING
NTS



ACCESSIBLE PARKING ISA MARKING
NTS



ACCESSIBLE SIGNAGE
NTS

1212 CAST IRON GRATE
PARKWAY ONLY 28 lbs.

1212 STEEL GRATES
PARKWAY 16 lbs.
TRAFFIC 18 lbs.

1212 STEEL COVER
PARKWAY 22 lbs.
TRAFFIC 25 lbs.

1212 TOP SECTION (WITH GALVANIZED FRAME)
NOTE: USE 12", 18", 24", 28" LOWERS TO INCREASE DEPTH UP TO A MAXIMUM OF 72"

1212 LOWER SECTION (NO FRAME)
NOTE: USE 12", 18", 24", 28" LOWERS TO INCREASE DEPTH UP TO A MAXIMUM OF 72"

1212 BASE
WT. 165 lbs.

12" x 12" CATCH BASIN
JENSEN PRECAST EST. 1968
BROOKS 1212 CB

TOP SECTION	HT.	LBS	KNOCK-OUT
1212 T6	6"	170	NONE
1212 T12	12"	275	(4) 5" x 10"
1212 T18	18"	270	(4) 8" x 12"
1212 T24	24"	430	(4) 8" x 15"
1212 T28	28"	380	(4) 8" x 22"

EXTENSION SECTION	HT.	LBS	KNOCK-OUT
1212 E6	6"	170	NONE

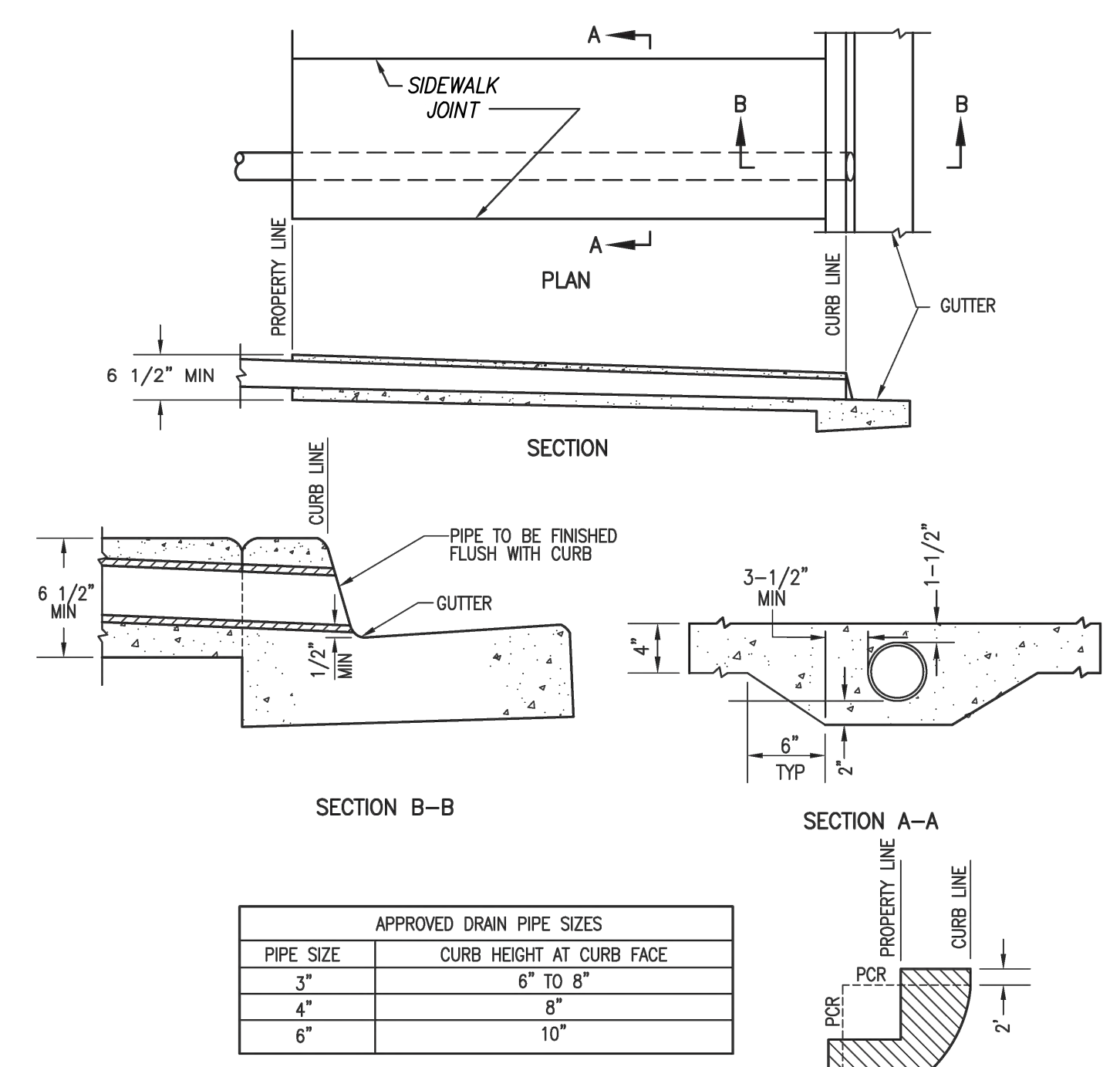
LOWER SECTION	HT.	LBS	KNOCK-OUT
1212 L12	12"	275	(4) 5" x 10"
1212 L18	18"	270	(4) 8" x 12"
1212 L24	24"	430	(4) 8" x 15"
1212 L28	28"	380	(4) 8" x 22"

NOTES:
1. GRATES AND COVERS AVAILABLE PAINTED BLACK OR GALVANIZED
2. "ADA" GRATES AVAILABLE IN PARKWAY & TRAFFIC
3. "HEEL PROOF" GRATES AVAILABLE IN PARKWAY & TRAFFIC
4. A TOP SECTION WITH FRAME MUST BE USED IF BOLT DOWN REQUIRED

PIPE MUST EXIT OUT OF SIDE OF BOX

FILL BOX BOTTOM WITH CONCRETE FROM IE IN TO IE OUT TO AID IN VECTOR CONTROL

12"x12" CATCH BASIN
NTS



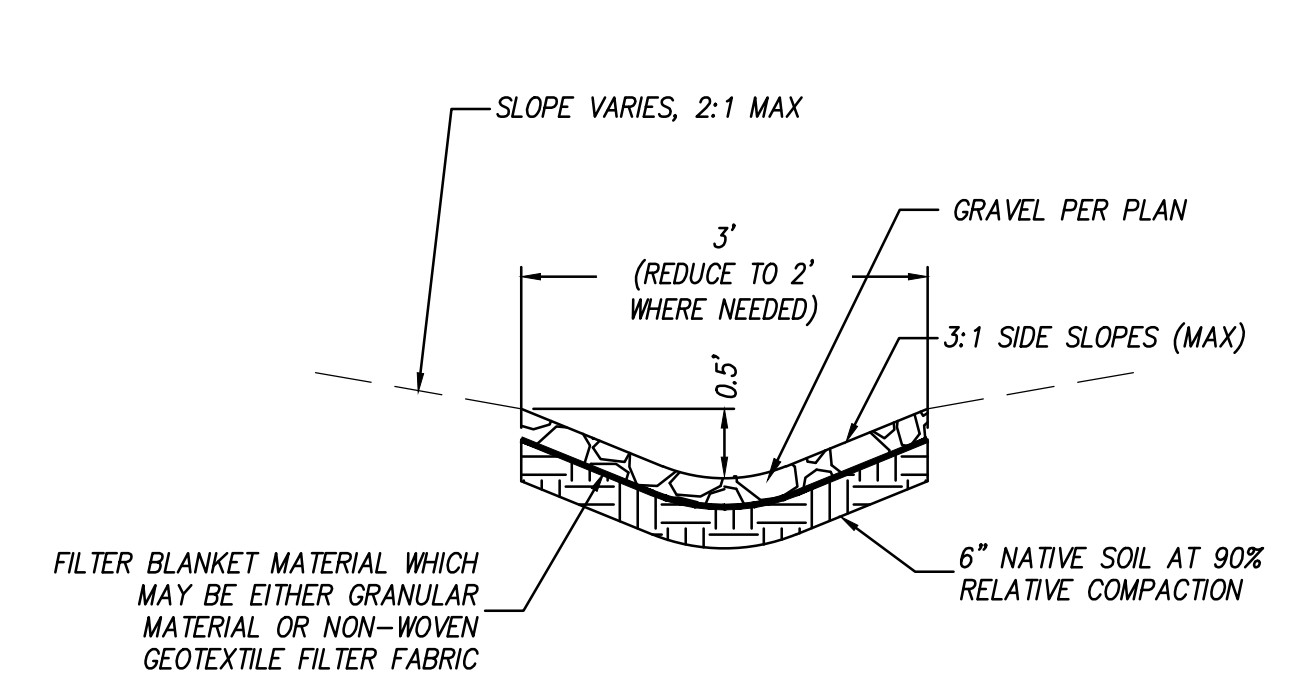
APPROVED DRAIN PIPE SIZES

PIPE SIZE	CURB HEIGHT AT CURB FACE
3"	6" to 8"
4"	8"
6"	10"

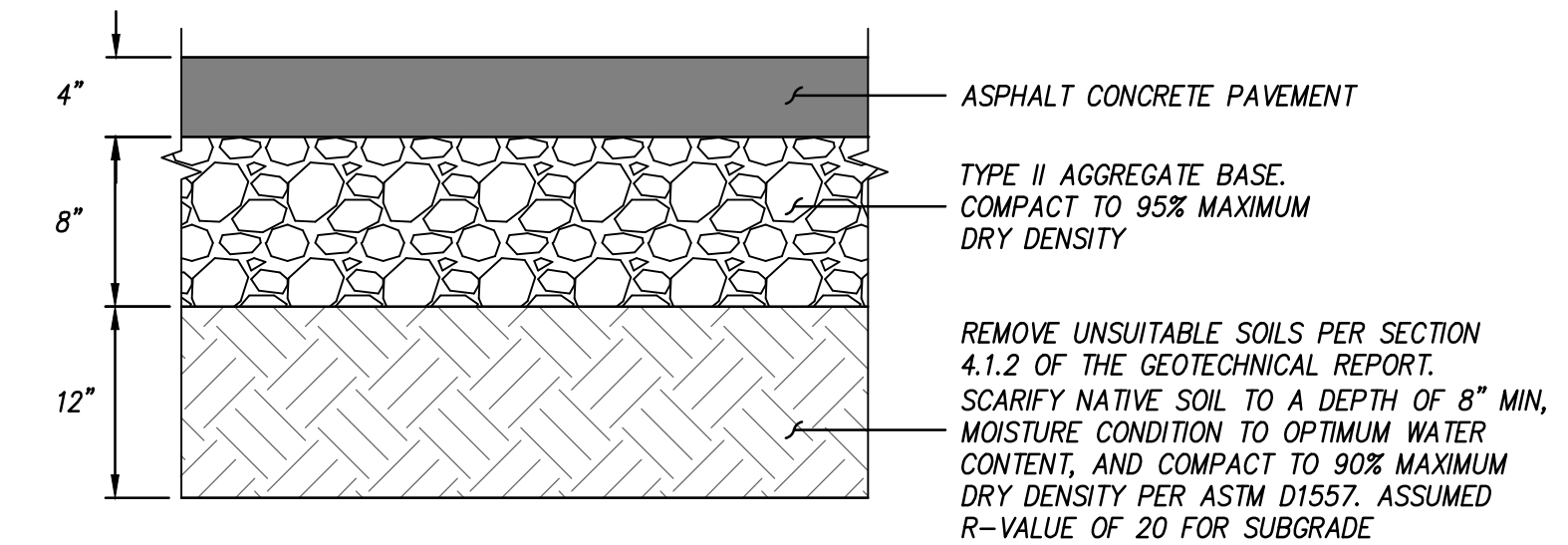
NOTES:
1. PIPE SHALL BE ONE CONTINUOUS LENGTH FROM PROPERTY LINE TO CURB LINE.
2. MULTIPLE PIPES TO BE SET A MINIMUM DISTANCE OF D/2 APART (3 MAX).
3. CONCRETE SHALL MATCH SIDEWALK CONCRETE PER USDOCA DWG. NO. 234.
4. PIPE SHALL BE CIRCULAR RIBBON PLASTIC OR APPROVED EQUAL.
5. CORING OF EXISTING CURB MAY BE USED AS AN ALTERNATIVE.
6. PROVIDE 1/4" TOOLED GROOVE IN TOP SLAB IN LINE WITH BACK OF ADJACENT CURB.

DRAIN SHALL NOT BE CONSTRUCTED WITHIN THE HATCHED AREA BLOCK CORNER

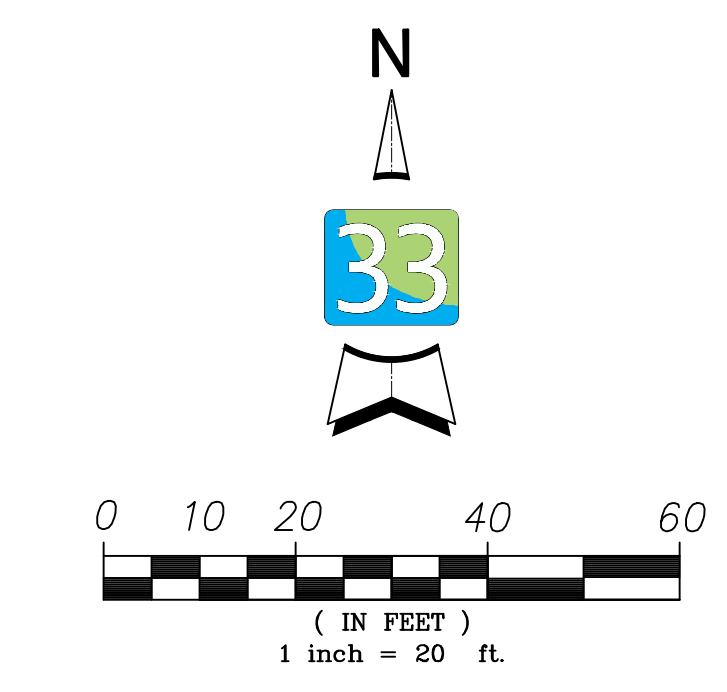
SIDEWALK DRAIN PIPE
NTS



SWALE
NTS



ASPALT CONCRETE SECTION
NTS



NOT FOR CONSTRUCTION

10/9/2024 10:17 AM H:\19001943_00 - Ering Cole - SNHD BSL3 LAB-VegastEngineering\Phase3\Building Permitt\C-501 SNHD LAB_DETAILS.dwg



KEY PLAN

PRINCIPAL
DAVID KEITH
RESEARCH PLANNER
STEPH VARGAS
ARCHITECT
ROBERT MCCONNELL
ARCHITECTURAL DESIGNER
RICARDO MOLINA

Table with columns: NO., BY, DESCRIPTION, DATE. Includes revision history for design development and 50% DD SET.

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY: RM DATE: 11.08.2024

PROJECT NO.: 20230523 SCALE: As indicated

ABBREVIATIONS & SYMBOL LIST

FLOOR/SECTION PHASE DRAWING NO.

SYMBOL LEGEND

Comprehensive symbol legend including materials (brick, concrete, insulation), structural elements (columns, beams), and mechanical/electrical symbols (vents, doors, windows). Includes elevation and section reference symbols.

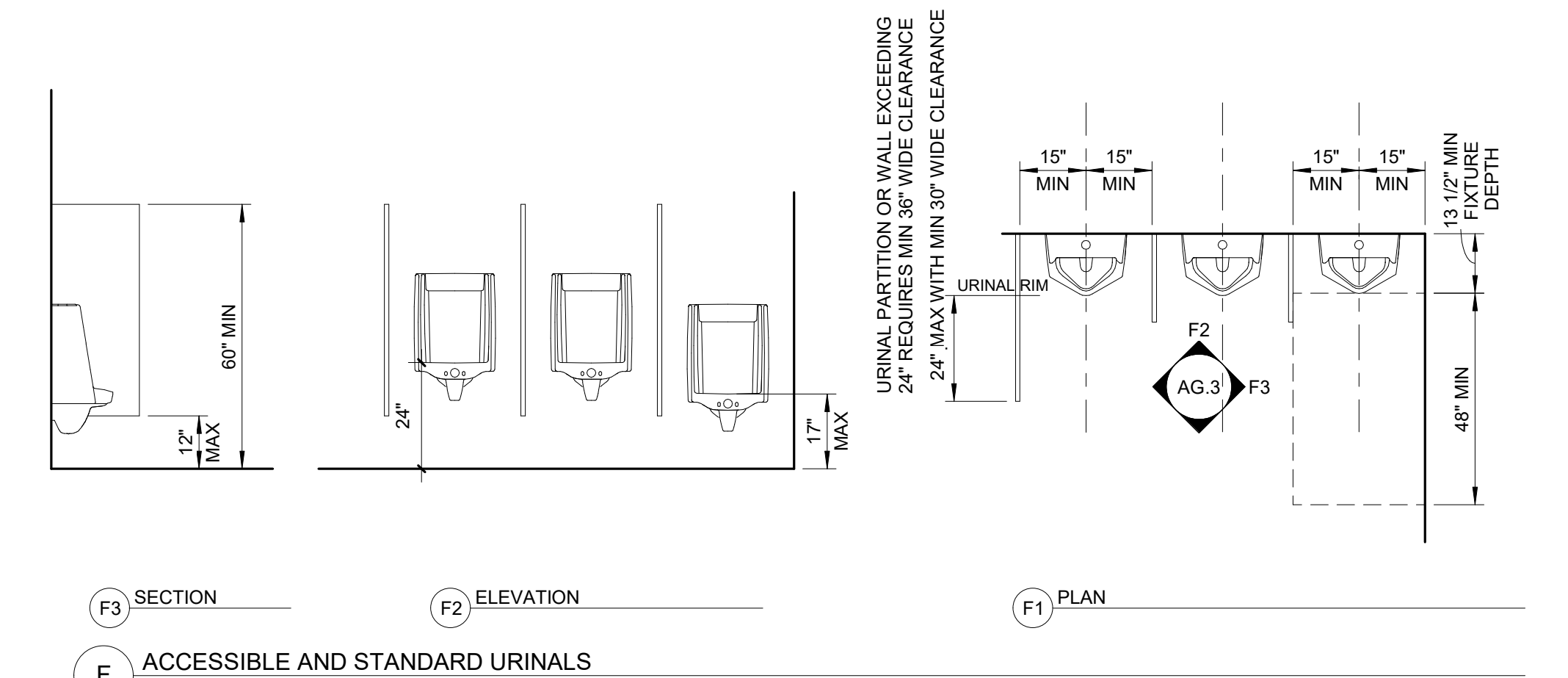
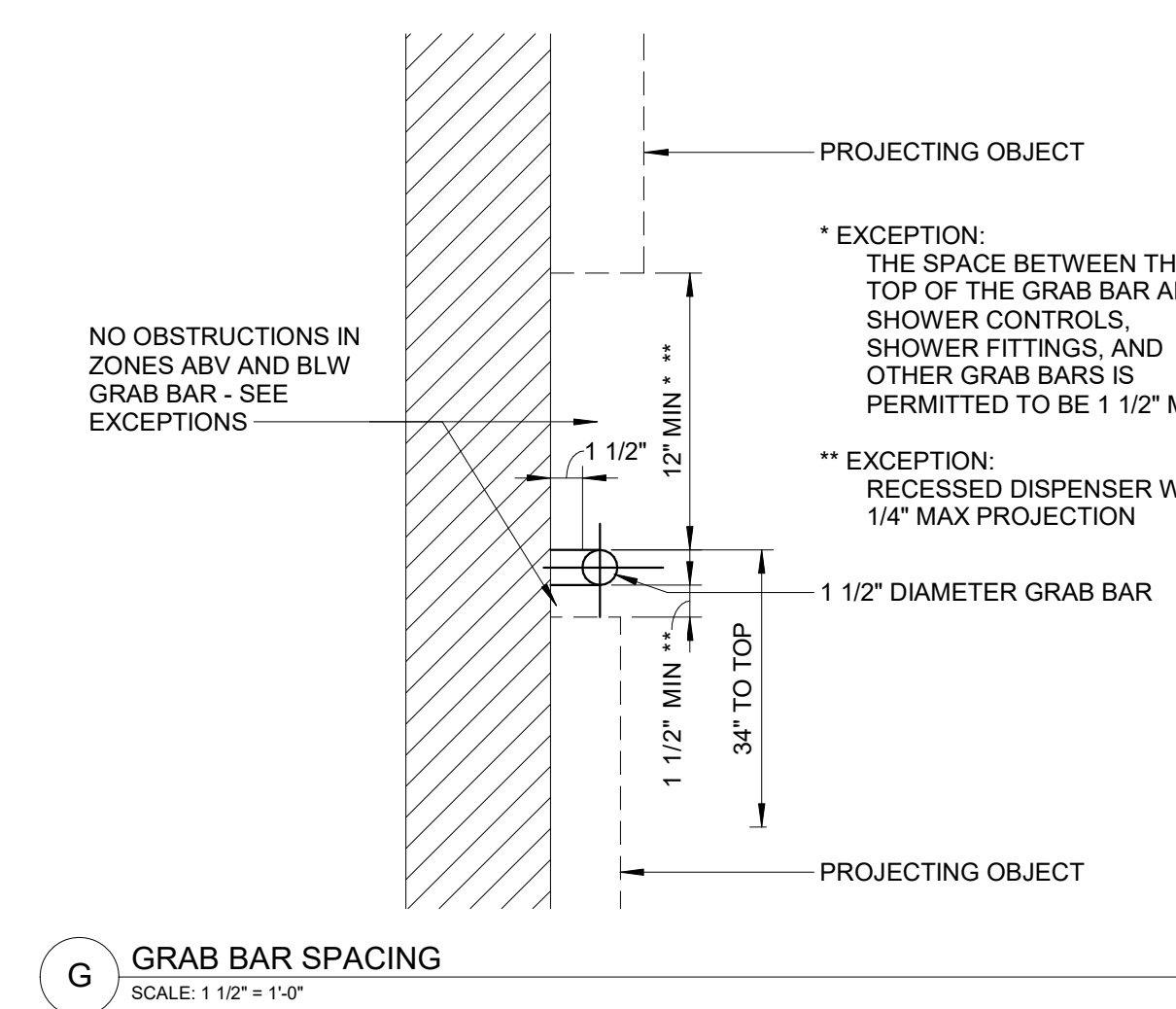
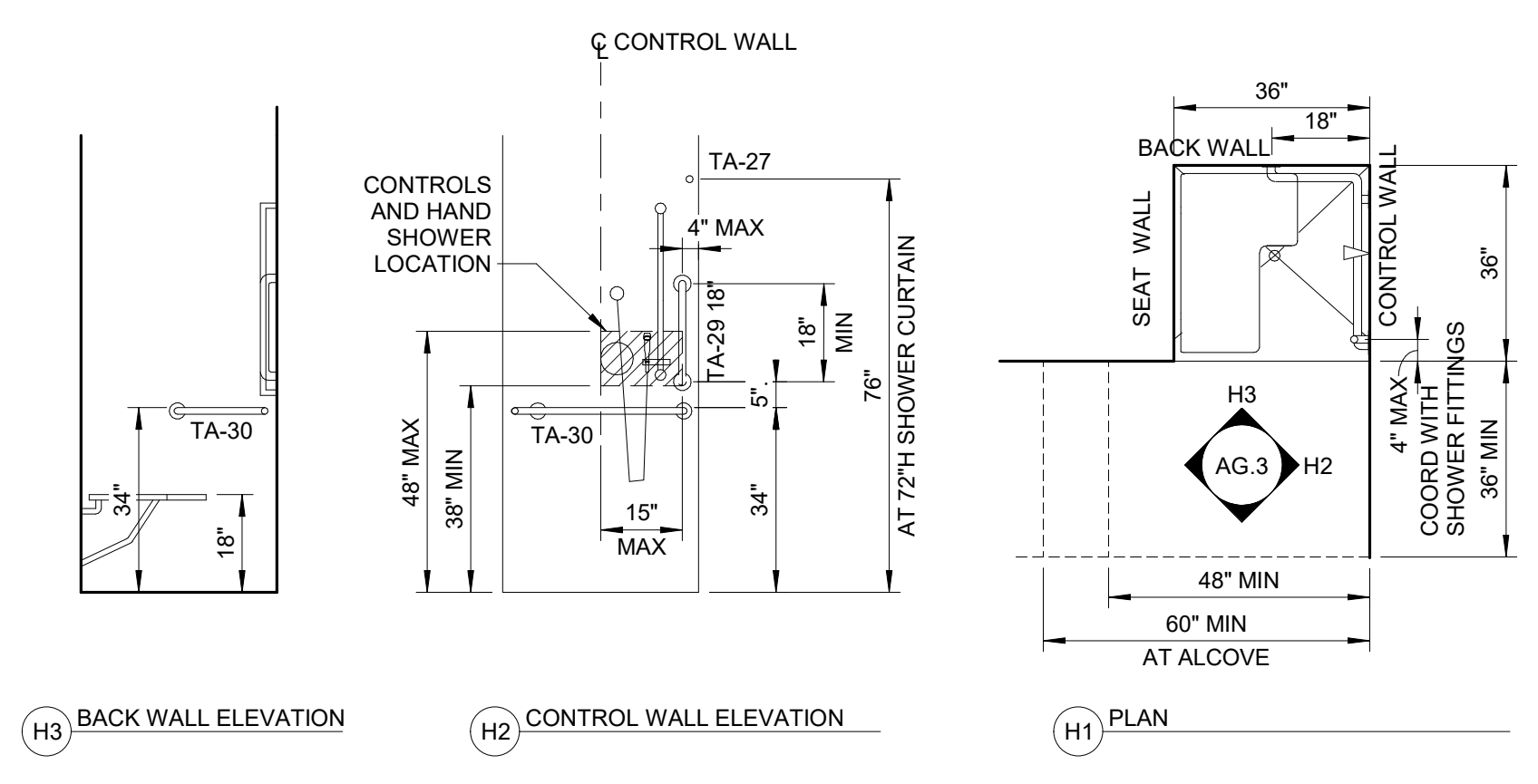
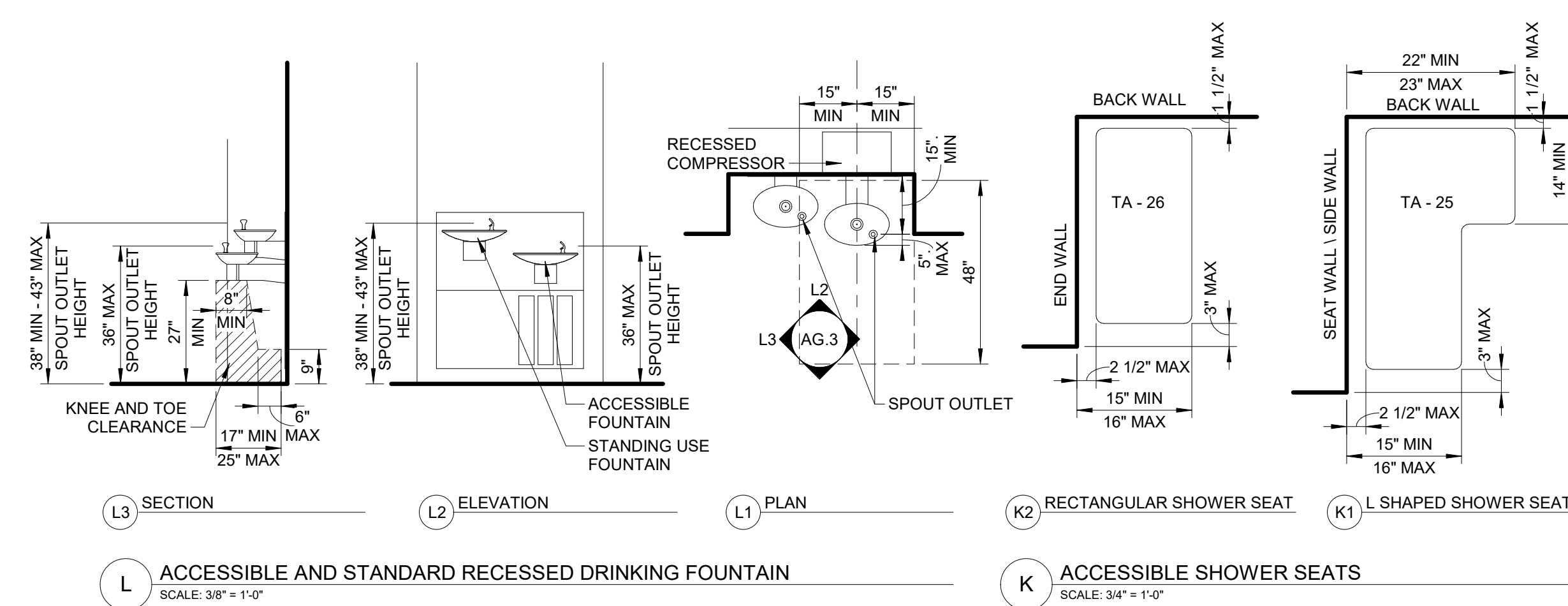
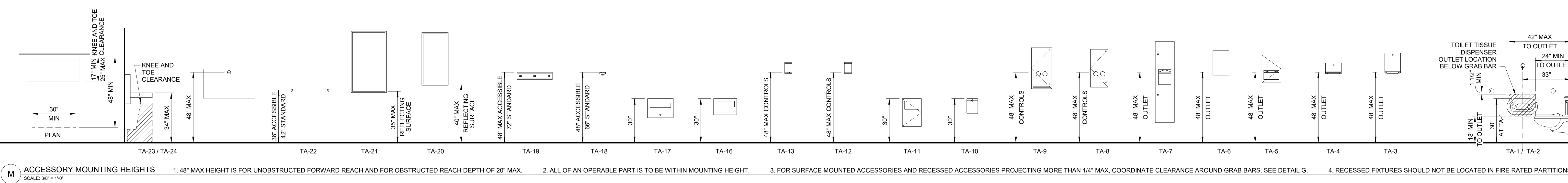
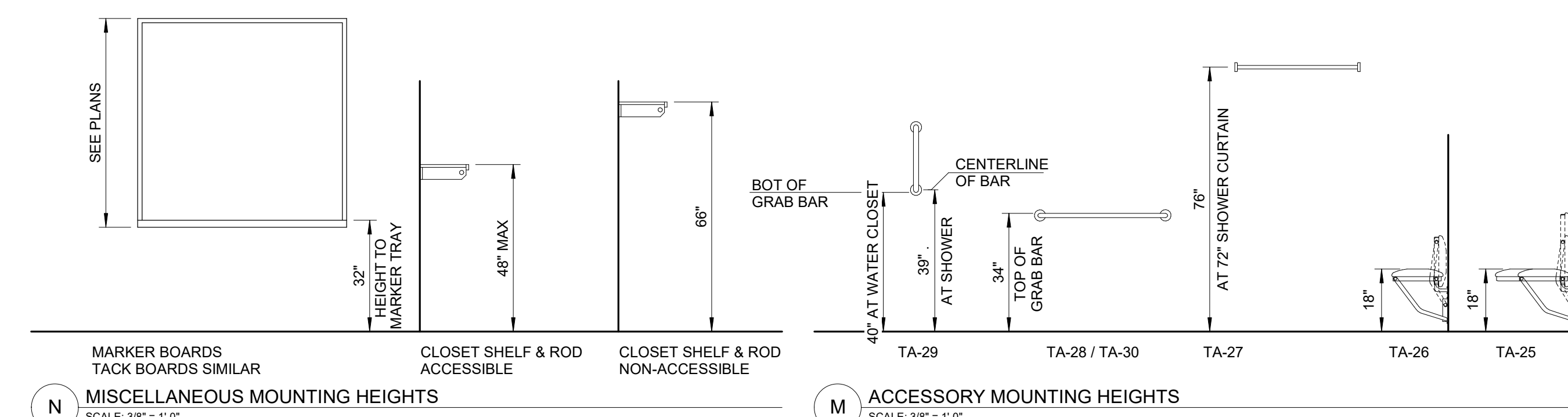
GENERAL ABBREVIATIONS

Large table of abbreviations and their corresponding full names, organized in columns. Includes terms like 'DIAMETER', 'EXPANSION BOLT', 'KITCHEN', 'REFRIGERATION', etc.

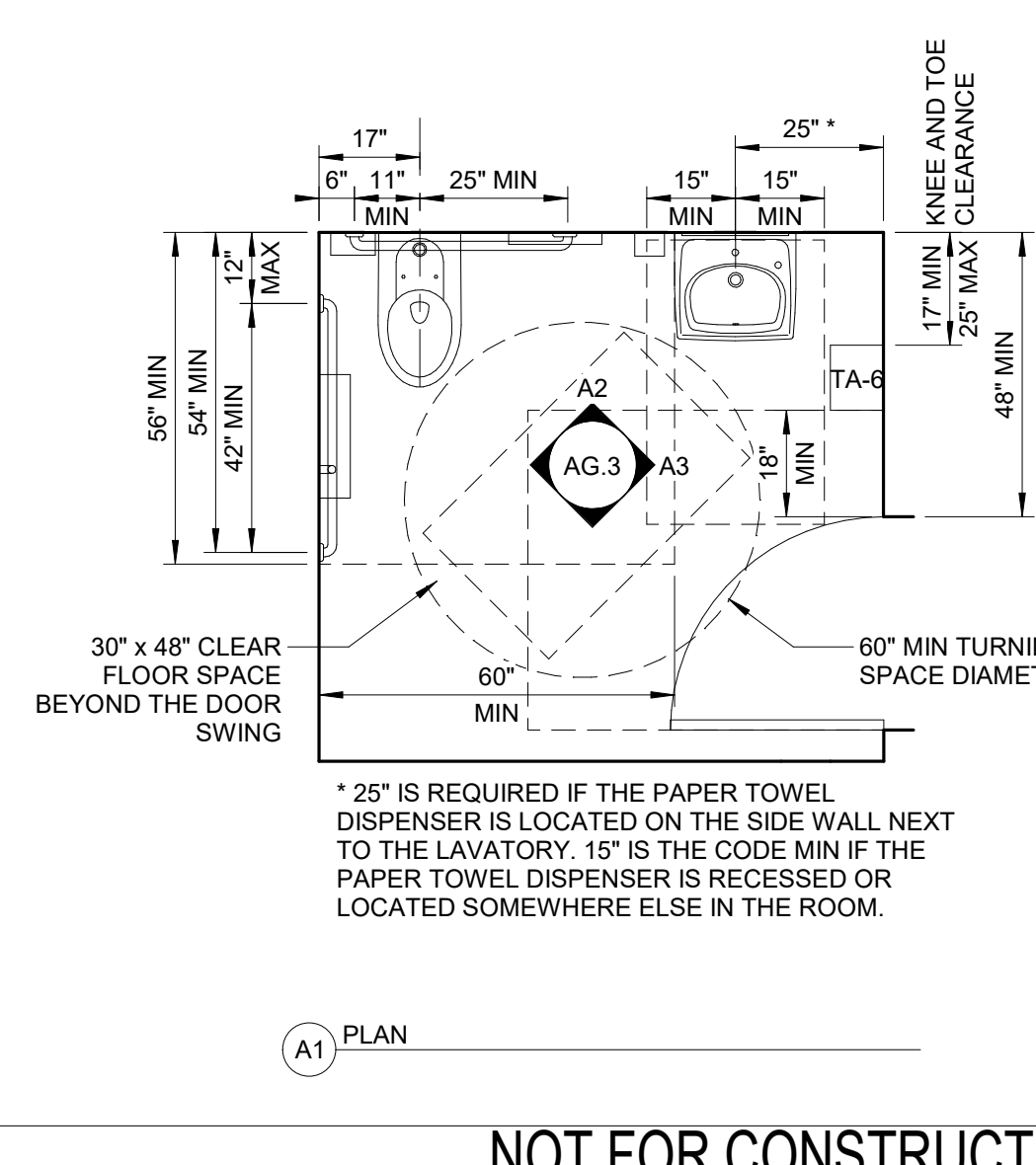
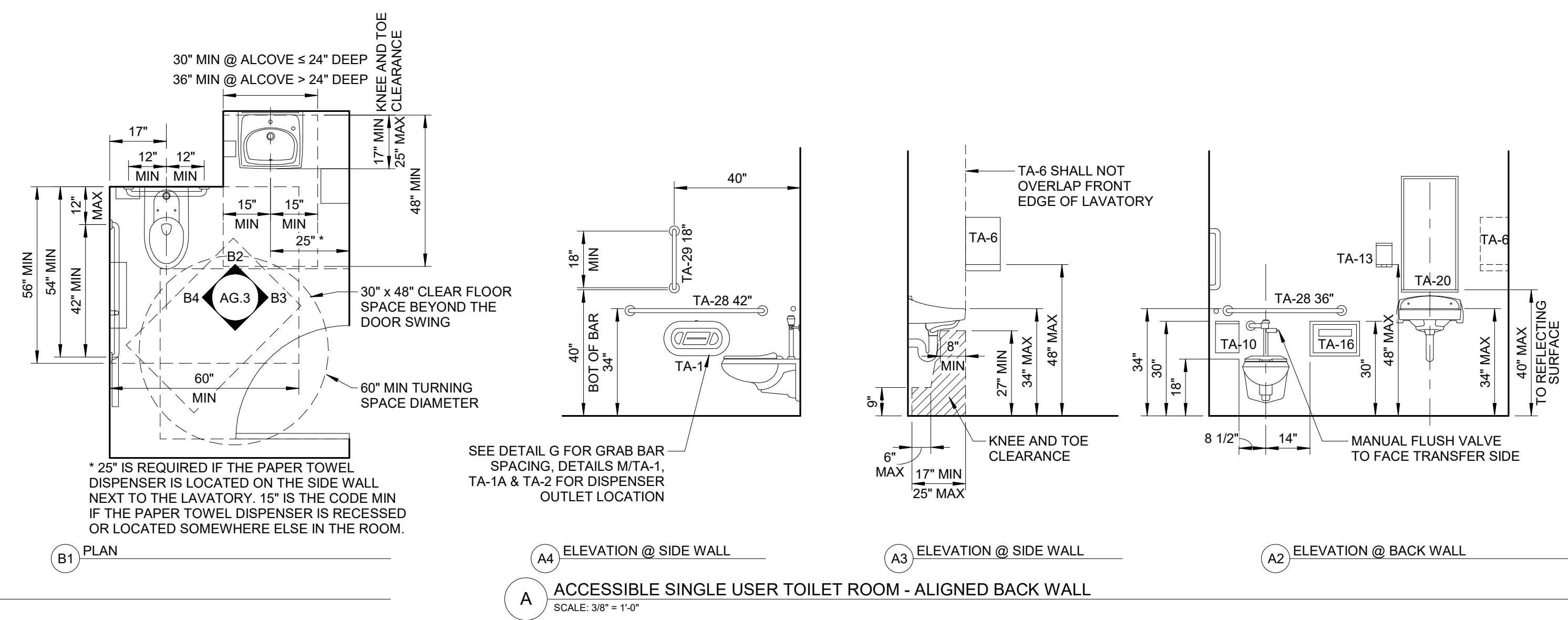
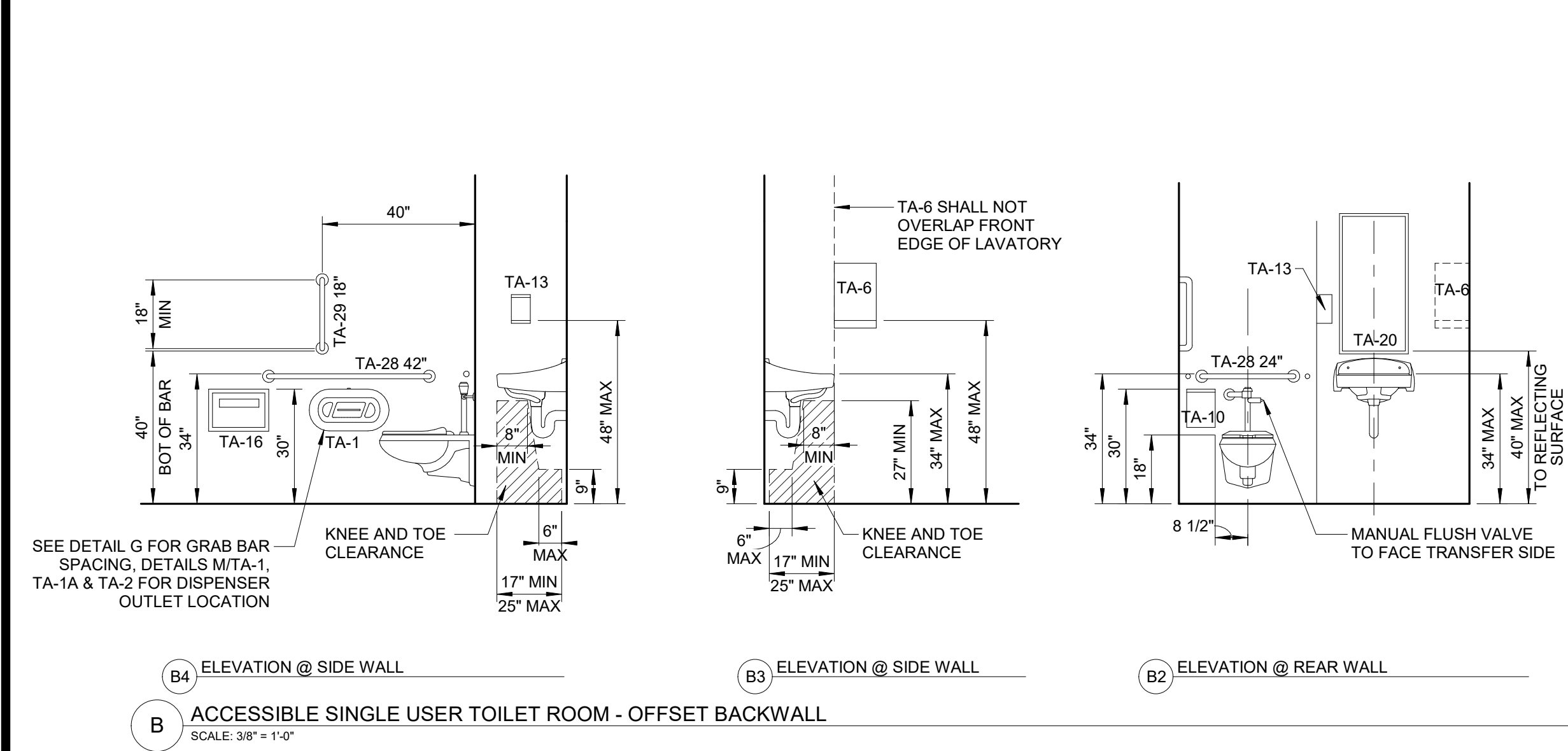
ACCESSORY LEGEND

- TA-1 SURF TOILET TISSUE DISP ROLL TYPE
- TA-2 SURF TOILET TISSUE DISP ROLL TYPE BY VENDOR
- TA-3 SURF PAPER TOWEL DISP C FOLD - LARGE
- TA-4 SURF PAPER TOWEL DISP C FOLD - SMALL
- TA-5 REC PAPER TOWEL DISP C FOLD
- TA-6 SURF PAPER TOWEL DISP TYPE BY VENDOR
- TA-7 REC PAPER TOWEL DISP / WASTE RECEPTACLE
- TA-8 SURF NAPKIN / TAMPON VENDOR
- TA-9 REC NAPKIN / TAMPON VENDOR
- TA-10 SURF NAPKIN DISPOSAL
- TA-11 REC NAPKIN DISPOSAL
- TA-12 SURF SOAP DISP BY VENDOR
- TA-13 SURF SOAP DISP
- TA-14 LAVATORY MOUNTED SOAP DISP
- TA-15 AUTOMATIC LAVATORY MOUNTED SOAP DISP
- TA-16 SURF SEAT COVER DISP
- TA-17 REC SEAT COVER DISP
- TA-18 ROBE HOOK
- TA-19 MOP STRIP
- TA-20 FRAMED MIRROR 18x36
- TA-21 FRAMED MIRROR 24x60
- TA-22 TOWEL BAR 24"
- TA-23 SURF BABY CHANGING STATION HORIZONTAL
- TA-24 REC BABY CHANGING STATION HORIZONTAL
- TA-25 L SHAPED SHOWER SEAT
- TA-26 RECTANGULAR SHOWER SEAT
- TA-27 SHOWER CURTAIN ROD
- TA-28 GRAB BAR STRAIGHT HORIZONTAL
- TA-29 GRAB BAR STRAIGHT VERTICAL
- TA-30 GRAB BAR TWO WALL SHOWER STALL - SMALL
- TA-31 GRAB BAR SWING TYPE

NOTES:
1. DIMENSIONS ARE TO FACE OF WALL FINISH.
2. WARM AIR DRYERS ARE LISTED SEPARATELY.



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KEY PLAN

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STEPH VARGAS
ARCHITECT
ROBERT MCCONNELL
ARCHITECTURAL DESIGNER
RICARDO MOLINA

REVISIONS

NO.	BY	DESCRIPTION	DATE
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C		DESIGN DEVELOPMENT	09.26.2024
B		50% DD SET	05.24.2024
A			05.10.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY RM DATE 11.08.2024

PROJECT NO. 20230523 SCALE As indicated

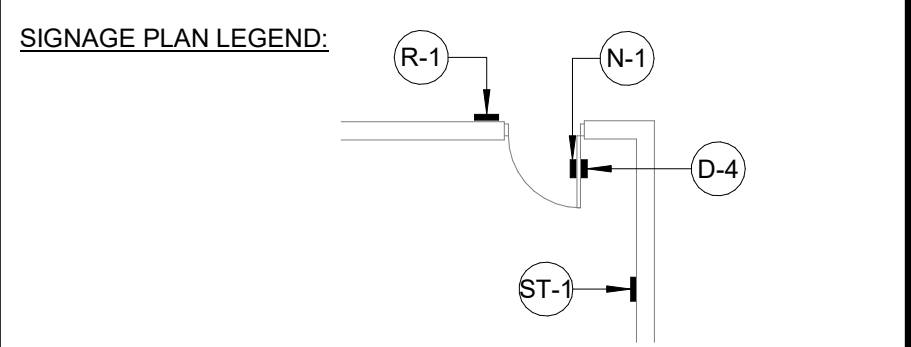
MOUNTING HEIGHTS & CLEARANCES

FLOOR/SECTION PHASE DRAWING NO.

NOT FOR CONSTRUCTION

CD AG.3

- EACH FLOOR INDICATING APPLICABLE INFORMATION AND EXIT STAIR.
- ALL BRAILLE IS GRADE 2.
 - ALL RAISED CHARACTERS ARE BETWEEN 5/8" & 2" IN HEIGHT & MADE IN CONTRASTING COLOR TO THE BACKGROUND.
 - ALL RAISED CHARACTERS, BRAILLE, AND PICTOGRAMS TO BE LOCATED BETWEEN 48-IN AND 60-IN AFF.
 - WHERE A SIGN IS PROVIDED AT A DOOR, INSTALL AT LATCH SIDE. SIGNS ON DOUBLE DOORS WITH TWO ACTIVE LEAFS SHALL BE AT THE RIGHT SIDE OF THE RIGHT HAND DOOR. SIGNS ON DOUBLE DOORS WITH AN INACTIVE LEAF ARE TO BE INSTALLED ON INACTIVE LEAF. MOUNT ON NEAREST ADJACENT WALL WHERE THERE IS INSUFFICIENT WIDTH AT DOOR.
 - FOR SIGNS MOUNTED ON GLAZING OR TRANSPARENT PARTITIONS INSTALL AN EQUAL SIZE BLANK SIGN ON OPPOSITE SIDE OF PARTITION.
 - SUBMIT ALL SIGNS FOR APPROVAL OF GRAPHICS AND TEXT PRIOR TO CONSTRUCTION.



KEY PLAN

PRINCIPAL: DAVID KEITH
RESEARCH PLANNER: STEPH VARGAS
ARCHITECT: ROBERT MCCONNELL
ARCHITECTURAL DESIGNER: RICARDO MOLINA

REVISIONS

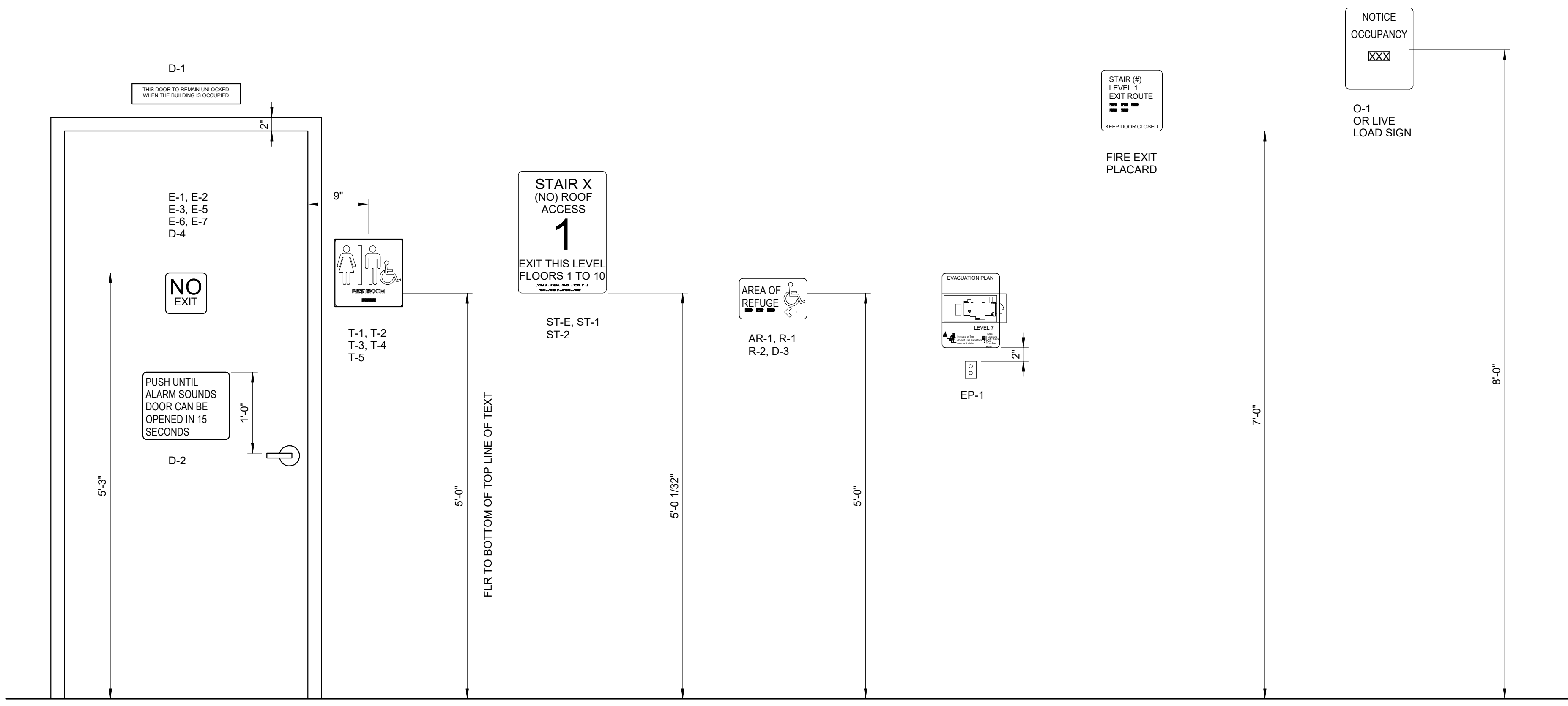
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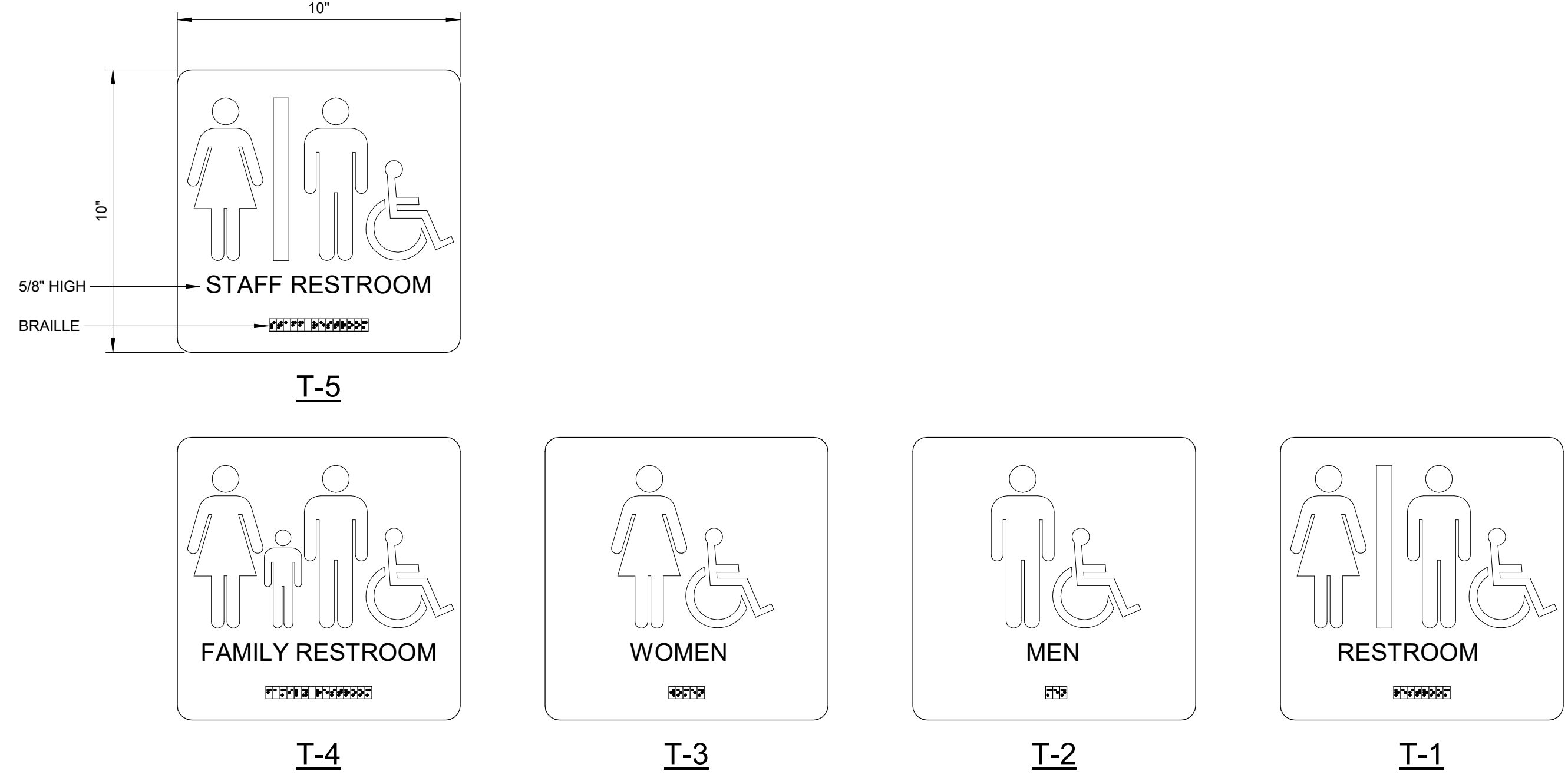
DRAWN BY: RM	DATE: 11.08.2024
PROJECT NO.: 20230523	SCALE: As indicated
DRAWING NAME:	
CODE REQUIRED SIGNAGE:	

FLOOR/SECTION PHASE: **DRAWING NO.:**

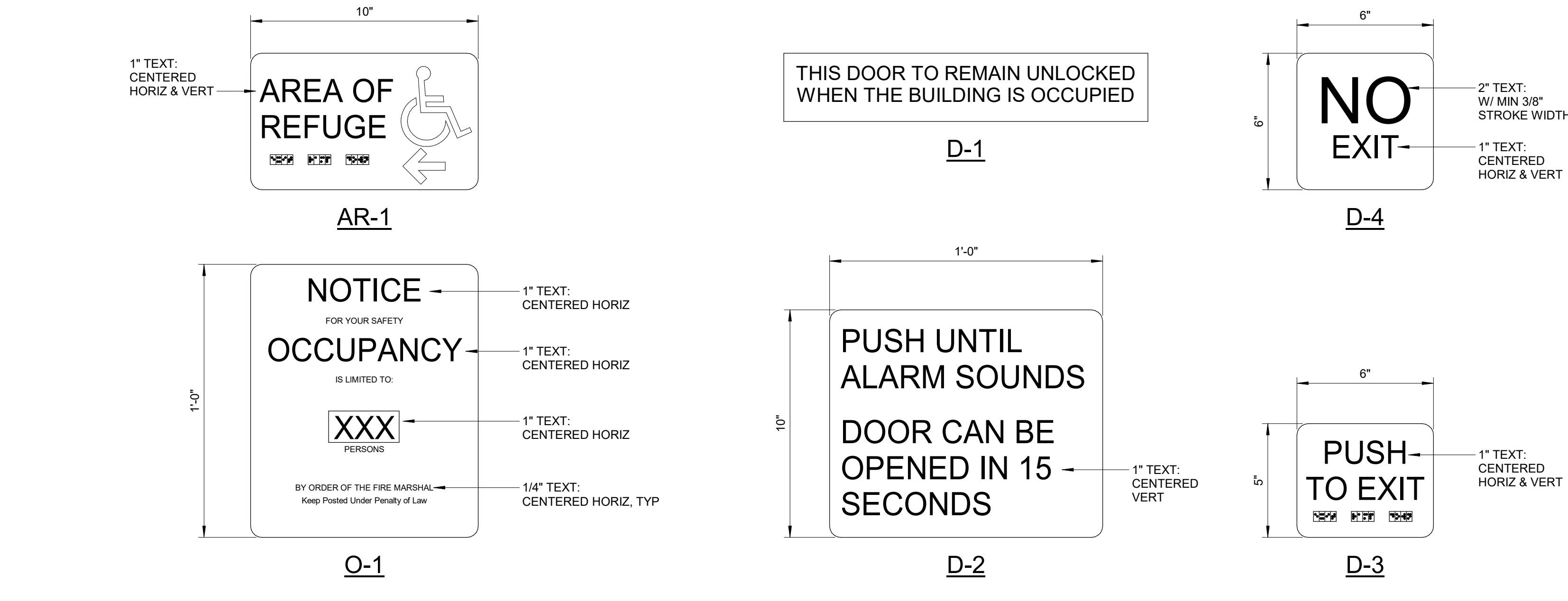
CD **AG.4**



M MOUNTING HEIGHTS AND CLEARANCES
SCALE: 1" = 1'-0"

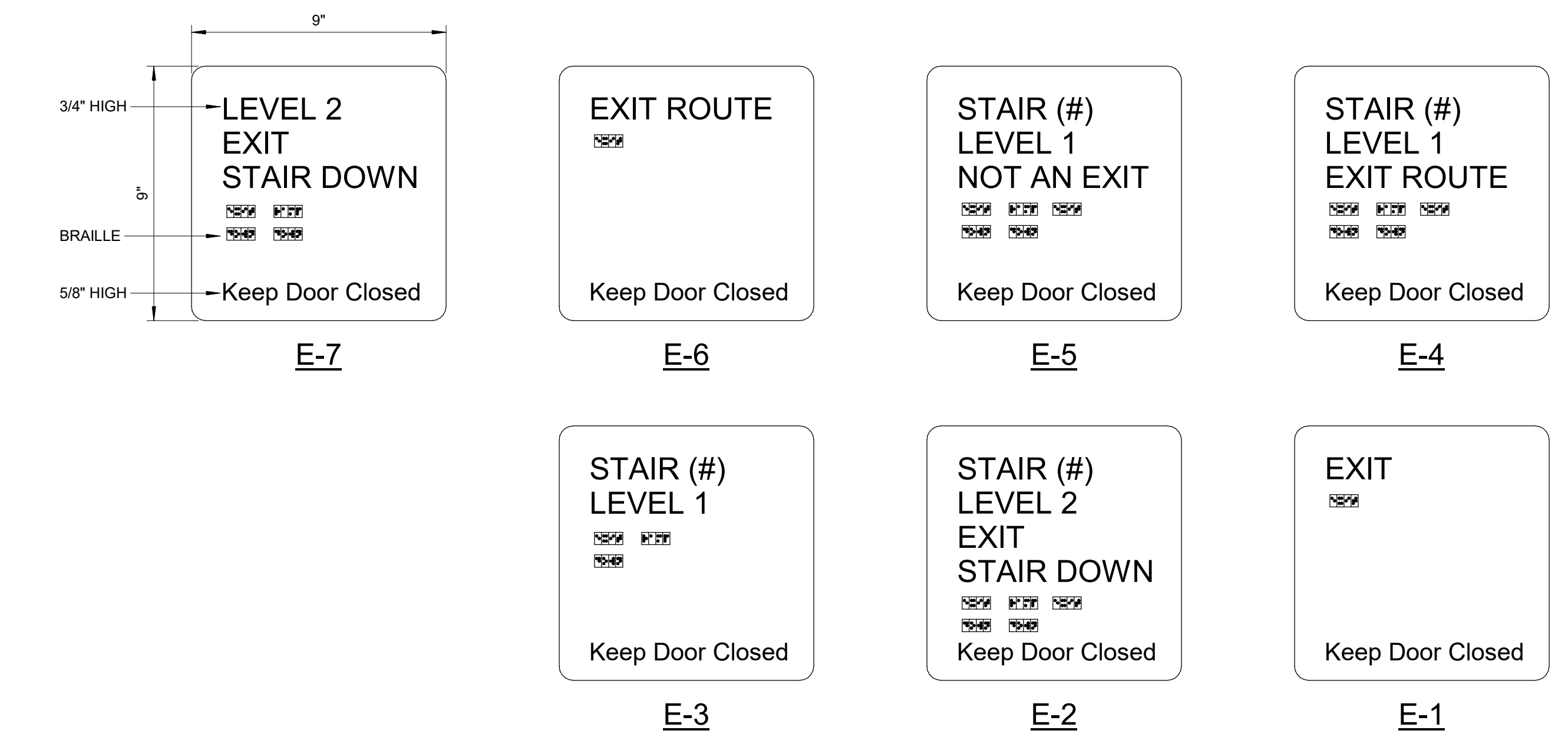


T TOILET ROOM SIGNS
SCALE: 3" = 1'-0"

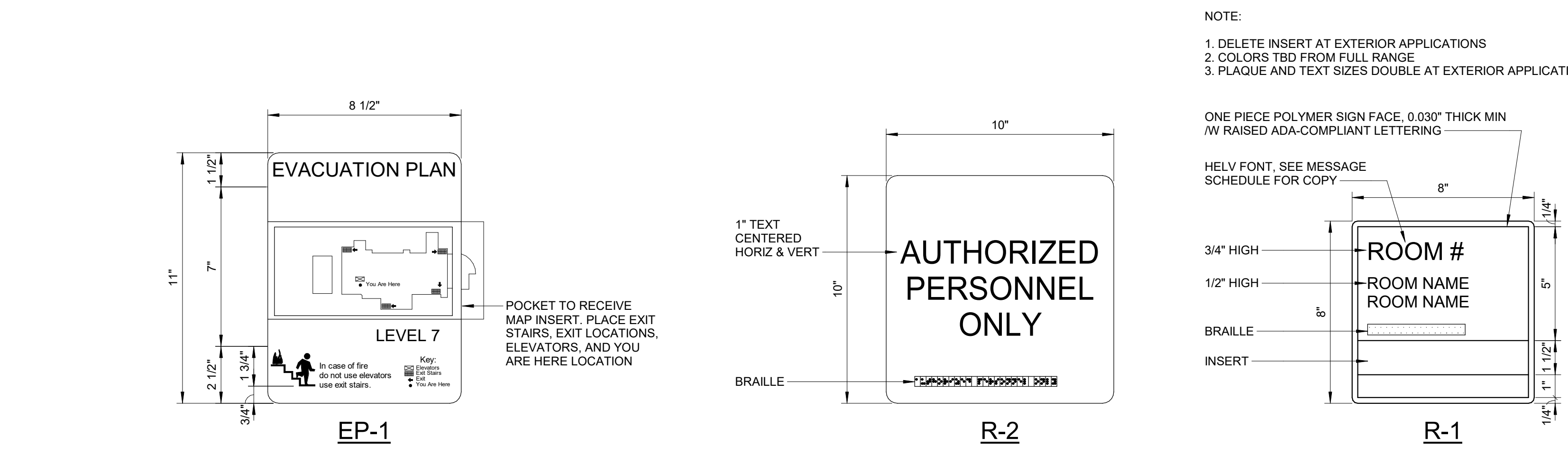


AR O OCCUPANCY & AREA OF REFUGE SIGNS
SCALE: 3" = 1'-0"

D MISC REQUIRED SIGNS
SCALE: 3" = 1'-0"

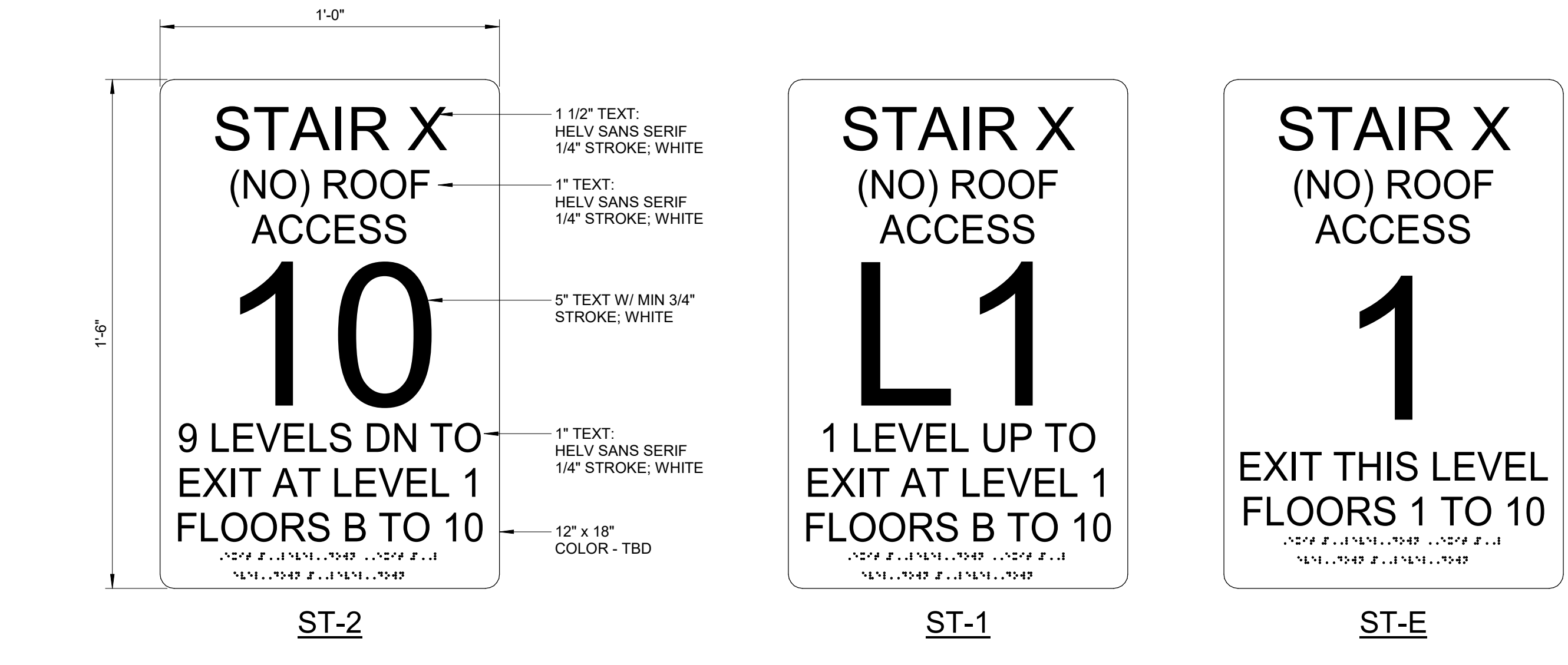


E EXIT SIGNS
SCALE: 3" = 1'-0"



EP EVACUATION PLAN SIGN
SCALE: 3" = 1'-0"

R TYPICAL ROOM SIGNAGE
SCALE: 3" = 1'-0"

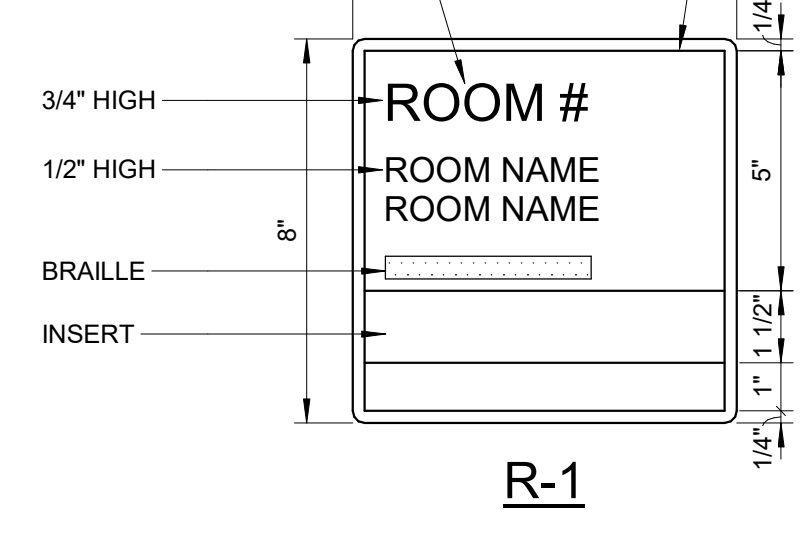


ST STAIR SIGNS
SCALE: 3" = 1'-0"

- NOTE:**
- DELETE INSERT AT EXTERIOR APPLICATIONS
 - COLORS TBD FROM FULL RANGE
 - PLAQUE AND TEXT SIZES DOUBLE AT EXTERIOR APPLICATIONS

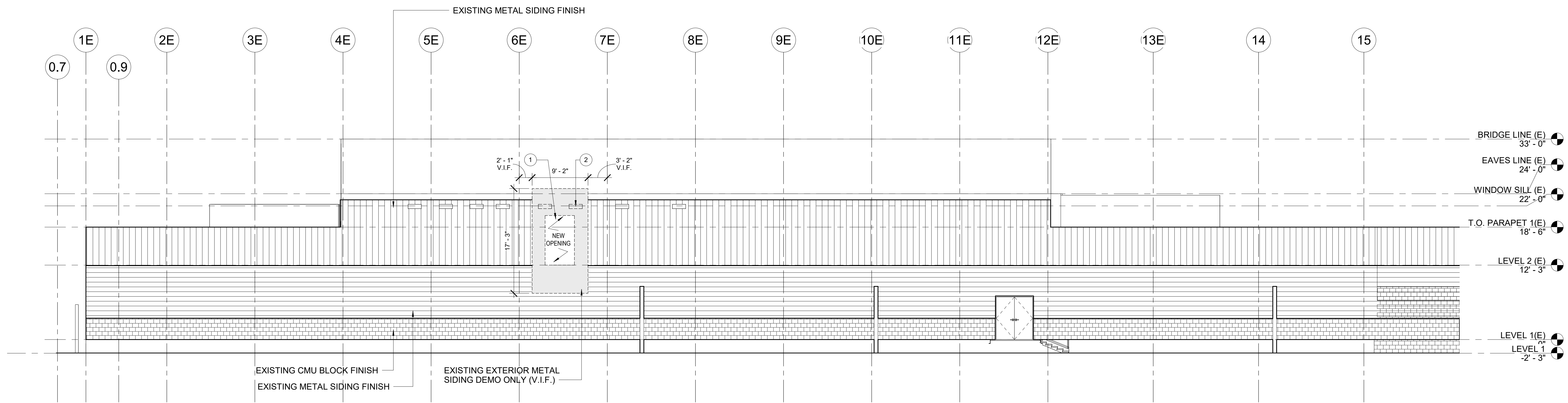
ONE PIECE POLYMER SIGN FACE, 0.030" THICK MIN
/W RAISED ADA-COMPLIANT LETTERING

HELV FONT, SEE MESSAGE SCHEDULE FOR COPY

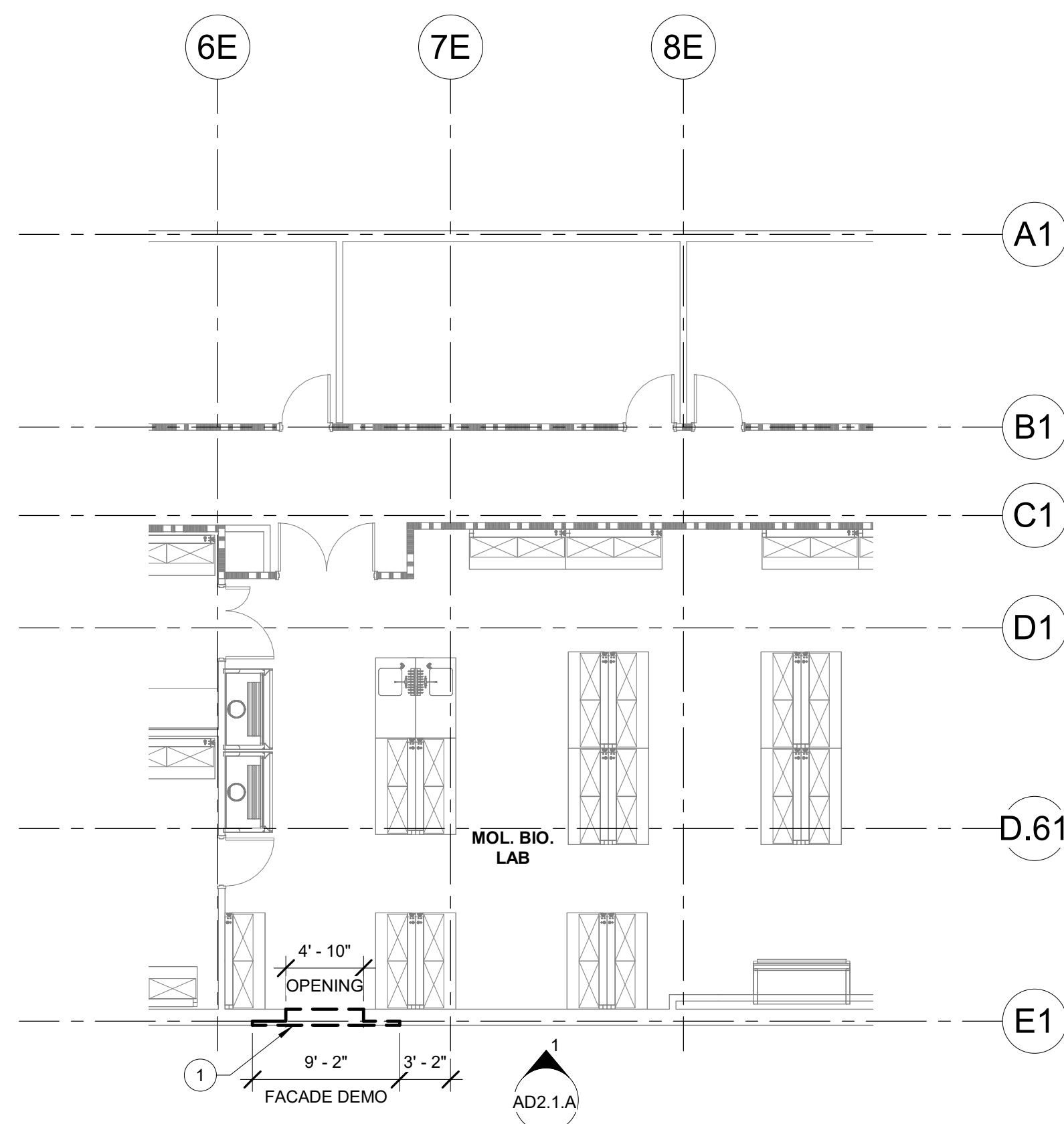


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1 EXTERIOR ELEVATION - DEMOLITION - SOUTH
SCALE: 1/8" = 1'-0"



2 FLOOR PLAN - DEMOLITION - LEVEL 2
SCALE: 1/8" = 1'-0"

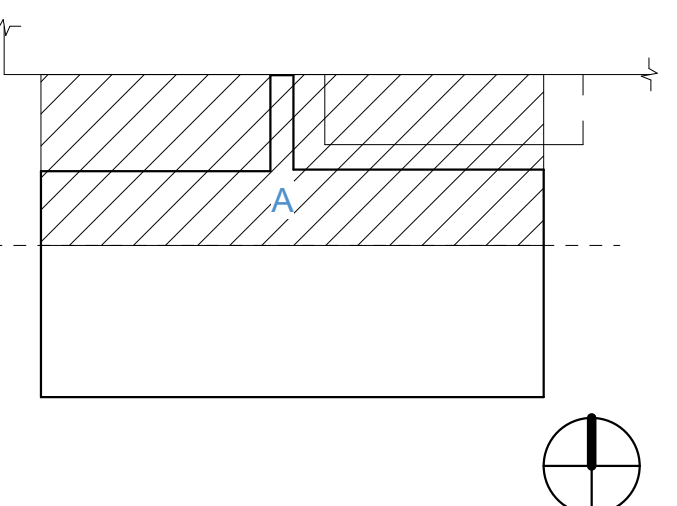
KEYED DEMOLITION NOTES

- EXTERIOR WALL:** REMOVE ITEMS ATTACHED TO WALL SURFACE, SUCH AS SIDING. REMOVE EXISTING DRYWALL ON INTERIOR SIDE. DISCONNECT AND REMOVE ALL MECHANICAL AND ELECTRICAL DEVICES AND EQUIPMENT. REMOVE METAL FRAMING, TRACKS AND BRACING IN THEIR ENTIRETY FOR NEW CONNECTING DOOR OPENING. PROVIDE TEMPORARY PROTECTIONS AS NEEDED TO SECURE THE INTERIOR OF THE EXISTING SPACE.
- EXTERIOR WINDOW:** REMOVE WINDOWS AND INFILL TO MATCH EXISTING CONSTRUCTION.

GENERAL DEMOLITION AND ALTERATION NOTES

- CONTRACTOR SHALL NOT CONSIDER DEMOLITION AND ALTERATION NOTES TO BE ALL INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT AND ASSESS EACH AREA AND TO FULFILL THE INTENT OF THE WORK INDICATED BY THE CONTRACT DOCUMENTS. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS WITHIN THE CONTRACT LIMITS. DEVIATIONS FROM THE CONTRACT DOCUMENTS NECESSITATED BY FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
- CONTRACTOR SHALL CONSULT WITH THE OWNER IN ADVANCE OF DOING WORK TO DETERMINE DISPOSITION OF ALL FIXTURES, CABINETS, SERVICES, EQUIPMENT AND ITEMS REMOVED DURING THE DEMOLITION. REMOVE EXISTING FURNISHINGS AND EQUIPMENT LEFT BEHIND TO BE DISCARDED BY OWNER.
- PROVIDE TEMPORARY BARRIERS, BARRICADES, LIGHTING, FIRE PROTECTION, ETC. TO PROTECT PERSONNEL AND ADJACENT SPACES PER THE REQUIREMENTS OF DIVISION 01 SECTION 'TEMPORARY FACILITIES AND CONTROLS'.
- PROVIDE TEMPORARY SAFEGUARDS AS REQUIRED TO PROTECT EXISTING FINISHES AND EQUIPMENT TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
- WHERE EXISTING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO PARTITIONS, FLOORS AND BASES, DOOR AND WINDOW FRAMES, CEILINGS, CASEWORK, EQUIPMENT, ELECTRICAL AND MECHANICAL DEVICES, FIXTURES AND EQUIPMENT IS REMOVED OR ALTERED, REPAIR ADJACENT SURFACES DISTURBED BY DEMOLITION OR ALTERATION WORK AND PREPARE THESE SURFACES TO RECEIVE NEW SCHEDULED FINISHES. REPAIRS TO SURFACES DEEMED BY THE ARCHITECT AND OWNER TO BE UNSATISFACTORY FOR THE PURPOSE SHALL BE REMOVED AND REPLACED IN KIND.
- REPAIRS TO FIRE, SMOKE OR ACOUSTICALLY RATED WALLS, FLOORS OR CEILINGS SHALL BE MADE WITH MATERIALS APPROPRIATE TO ACHIEVE THE SAME RATING AS THE EXISTING.
- WHERE FINISHES ARE NOTED TO BE REMOVED AT COLUMNS OR WALLS, REMOVAL SHALL BE SUCH THAT NEW FINISHES MAY BE INSTALLED TO ALIGN WITH EXISTING FINISHES.
- UNLESS NOTED OTHERWISE, REMOVE EXISTING PROJECTIONS, HANGERS, BOLTS, NAILS, BRACKETS, CURTAIN RODS, VALANCES, ETC. FROM EXISTING WALLS AND COLUMNS. PATCH ALL HOLES TO MATCH ADJACENT SURFACES FOR THE INSTALLATION OF NEW FINISHES.
- AT NEW DOORS, CORRIDOR OPENINGS OR CONNECTIONS AND WHERE PARTITIONS ARE REMOVED, REMOVE EXISTING FLOORING AND BASES TO EXTENT REQUIRED FOR NEW UNDERLAYMENT TO PROVIDE A SMOOTH TRANSITION. THE SUBSURFACE SHALL BE PATCHED AND TREATED TO PRODUCE A SURFACE WHICH WILL ELIMINATE 'TELEGRAPHING' OF EXISTING JOINTS THROUGH THE NEW FLOORING. INSTALL UNDERLAYMENT PER DIVISION 03 SECTION 'GYPSUM CEMENT UNDERLAYMENT'.
- WHERE NEW WALLS WILL ABUT EXISTING CORNERS, REMOVE CORNER GUARD AND REPAIR CORNER PRIOR TO INSTALLATION.
- CAREFULLY REMOVE EXISTING SUSPENDED ACOUSTIC TILE CEILING TO EXTENT REQUIRED TO ACCOMMODATE NEW MECHANICAL AND ELECTRICAL WORK BOTH INSIDE AND OUTSIDE THE PROJECT AREA LINE. STORE UNDAMAGED CEILING AND SUPPORT GRID FOR REINSTALLATION. REPLACE ALL DAMAGED MATERIAL IN KIND. CAREFULLY REMOVE EXISTING DRYWALL (PLASTER) CEILINGS TO EXTENT REQUIRED TO ACCOMMODATE NEW MECHANICAL AND ELECTRICAL WORK BOTH INSIDE AND OUTSIDE THE PROJECT AREA LINE. REINSTALL SUPPORT STRUCTURE AND INSTALL NEW DRYWALL (PLASTER) AND FINISH TO MATCH EXISTING ADJACENT FINISHES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.
- ALL MECHANICAL AND ELECTRICAL WORK NOTED ON THE DEMOLITION DRAWINGS SHALL BE REMOVED BY THE APPROPRIATE DIVISION 21, 22, 23, 25, 26, 27 AND 28 SUBCONTRACTORS.
- MECHANICAL AND ELECTRICAL DEMOLITION IN FINISHED SPACES SHALL BE REMOVED SUCH THAT ALL EXISTING TERMINATIONS WILL BE CONCEALED BEHIND THE NEW CONSTRUCTION.
- HOLES IN UL RATED FLOORS AND WALLS RESULTING FROM DEMOLITION OR REMOVALS SHALL BE REPAIRED IN A MANNER CONSISTENT WITH THE ADJACENT UL RATED CONSTRUCTION AND BE ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
- REPORT ALL CRACKED OR DAMAGED EXTERIOR GLAZING TO OWNER AND ARCHITECT.

KEY PLAN



PRINCIPAL
DAVID KEITH
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STEPH VARGAS
ARCHITECT
ROBERT MCCONNELL
ARCHITECTURAL DESIGNER
RICARDO MOLINA

REVISIONS

NO.	BY	DESCRIPTION	DATE
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Southern Nevada Health District
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DRAWN BY: RM DATE: 11.08.2024

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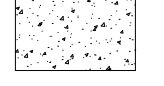
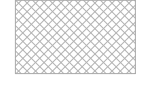


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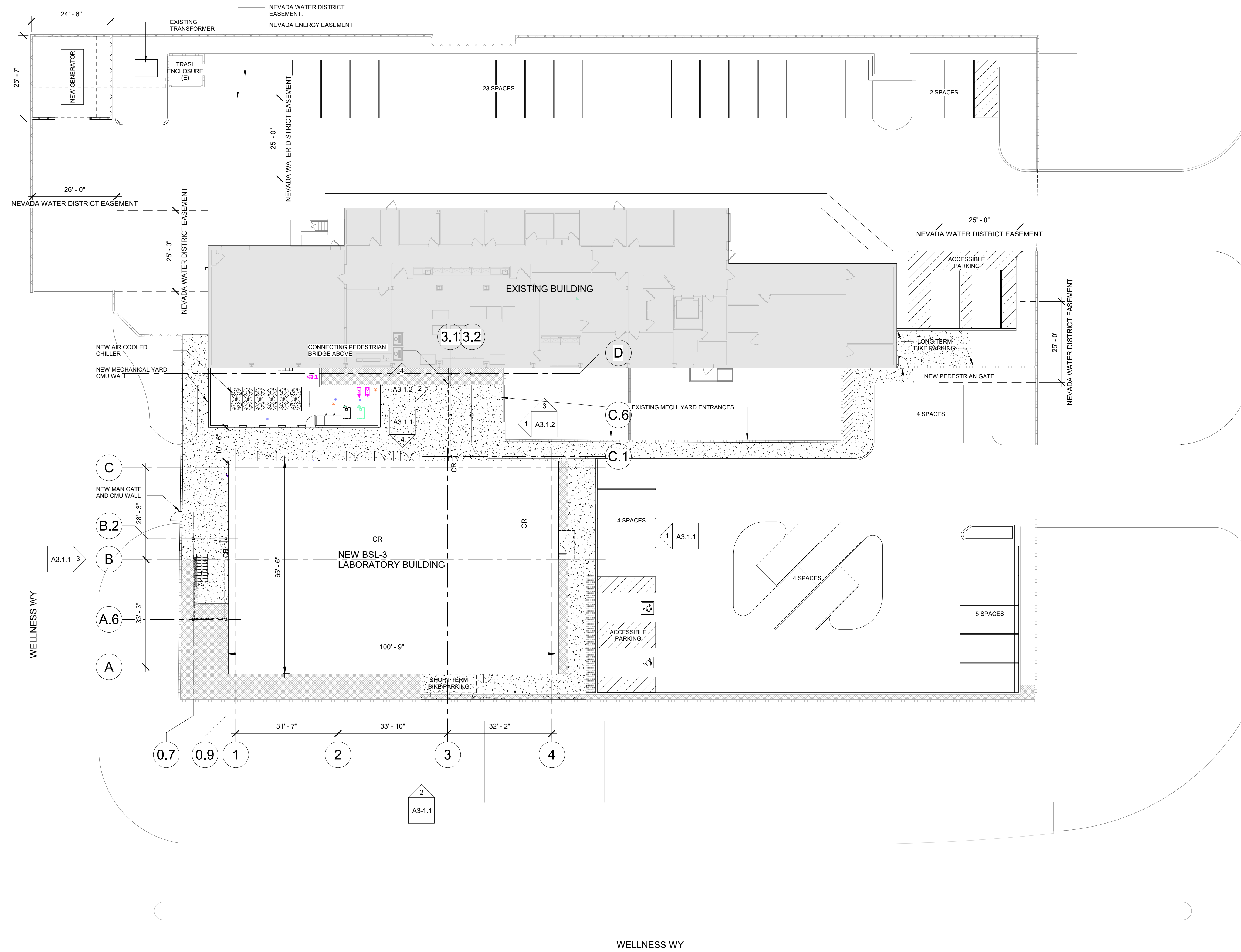
FLOOR/SECTION PHASE: DRAWING NO.

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CD AD2.1.A

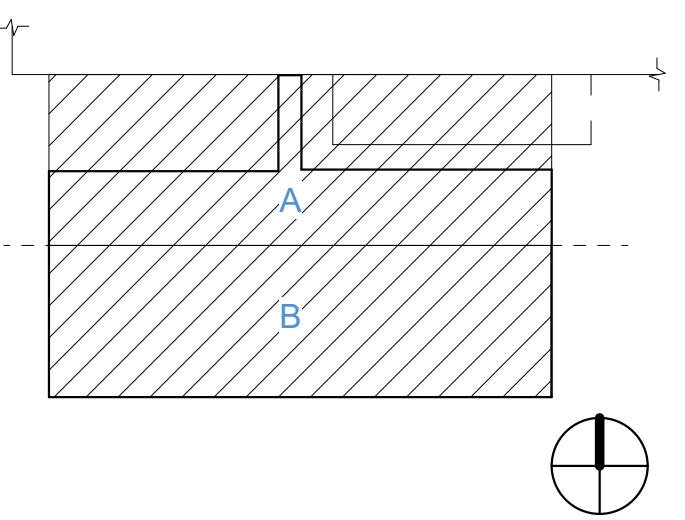
SITE PLAN LEGEND

-  PROPOSED CONCRETE SIDEWALK
-  PROPOSED LANDSCAPE
-  EXISTING BUILDING
-  PROPOSED 3' WIDE TRUNCATED WARNING SURFACE



1 LEVEL 1 SITE PLAN
SCALE: 1/16" = 1'-0"

KEY PLAN



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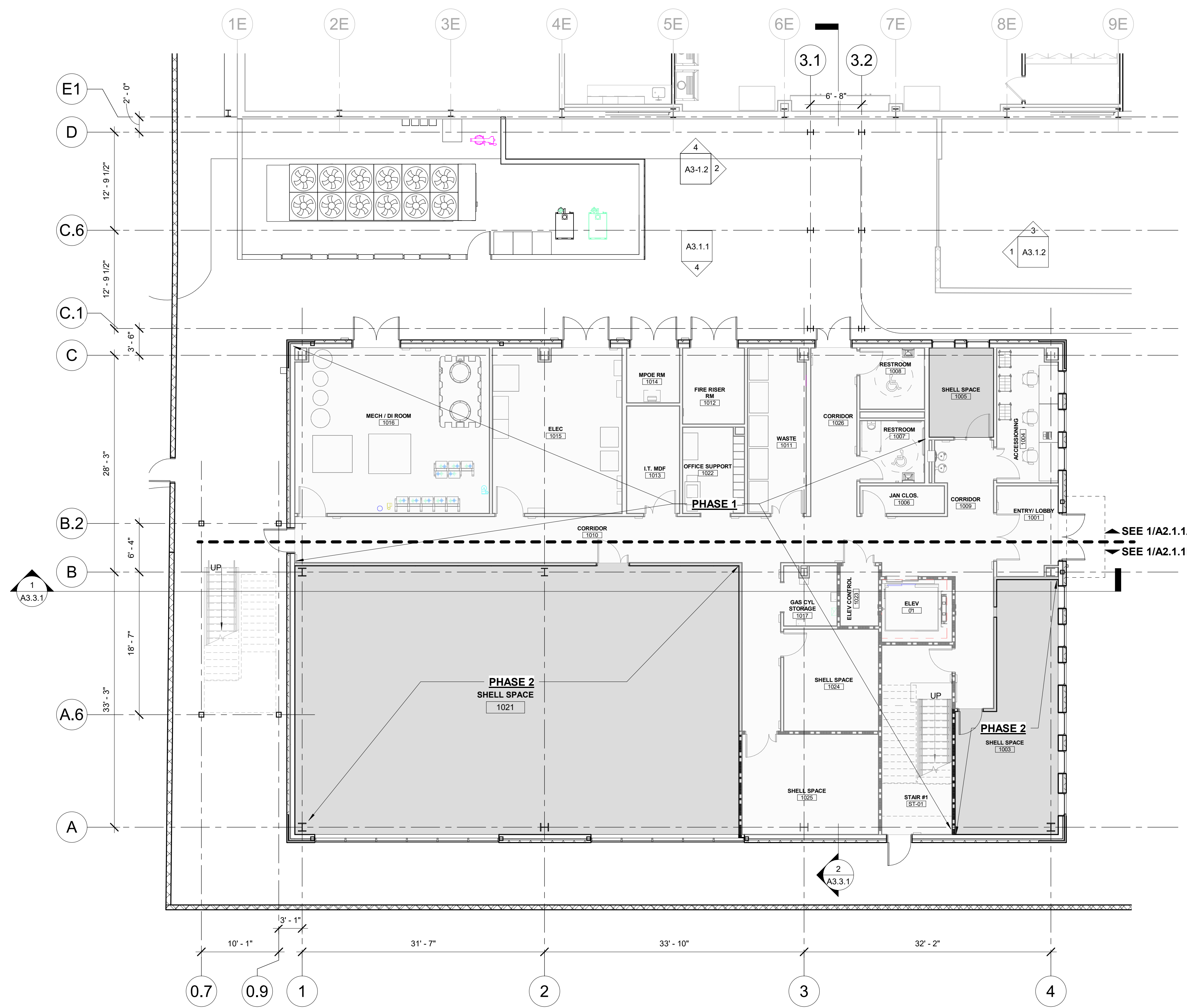
DRAWING NAME

ARCHITECTURAL SITE PLAN

FLOOR/SECTION PHASE DRAWING NO.

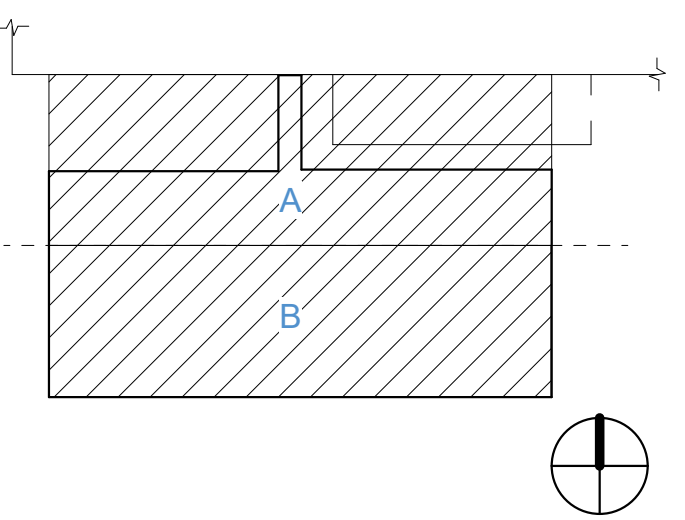
NOT FOR CONSTRUCTION

CD A0.1



1 LEVEL 1 REFERENCE PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



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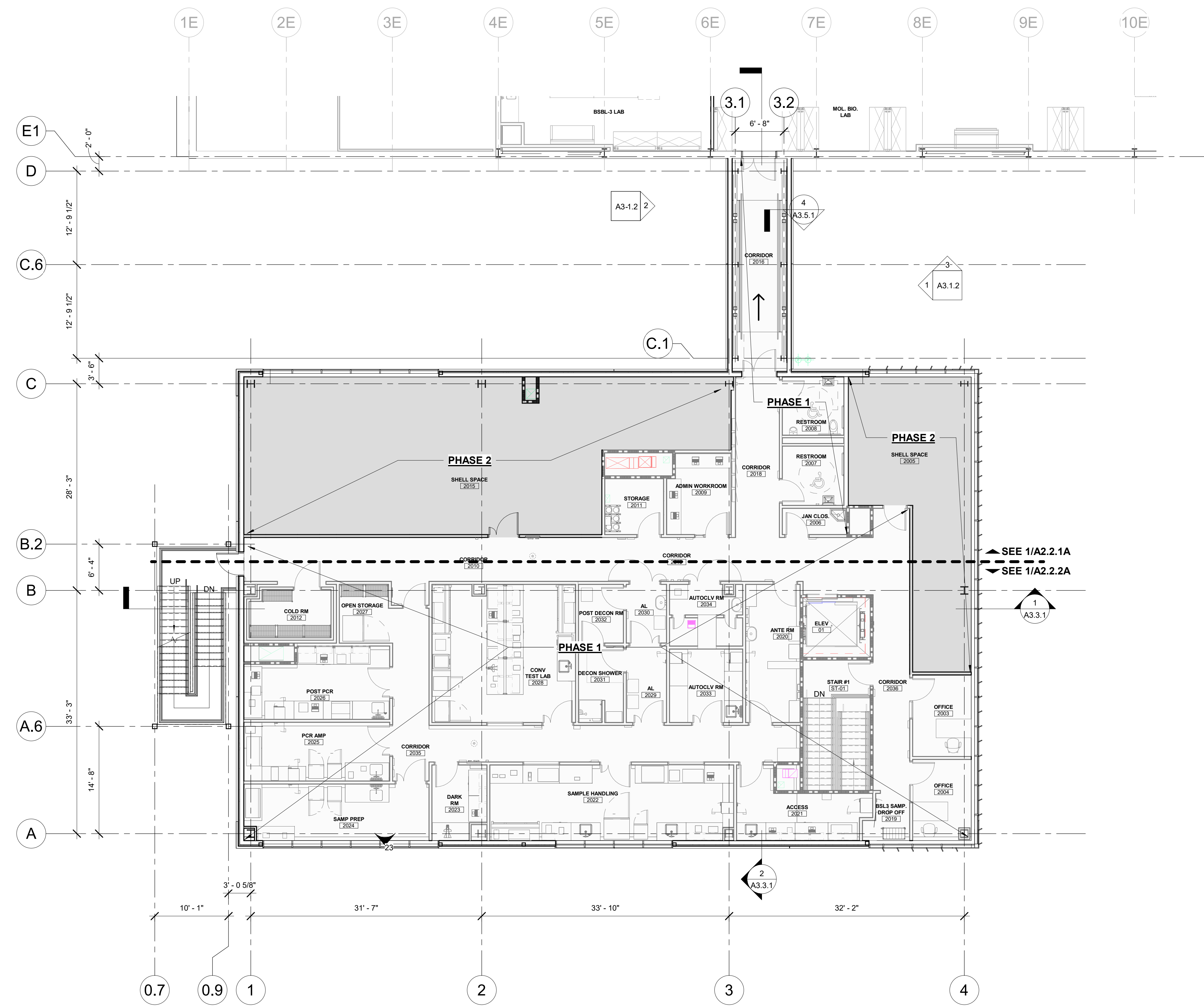
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LEVEL 1 REFERENCE PLAN

FLOOR/SECTION PHASE DRAWING NO.

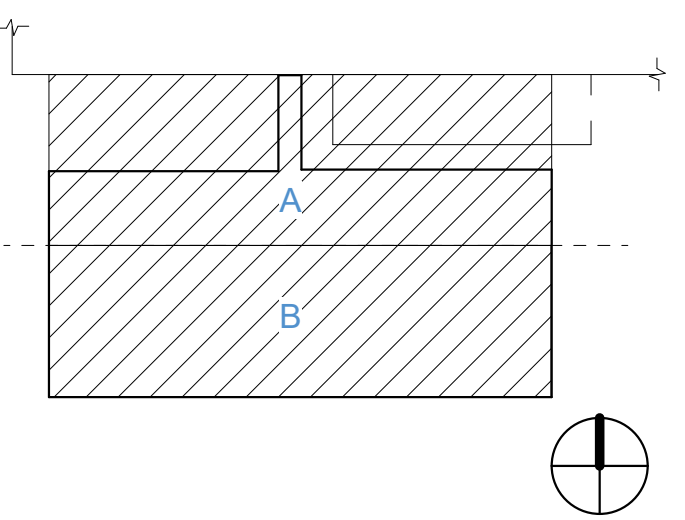
1 CD A1.1

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1 LEVEL 2 REFERENCE PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



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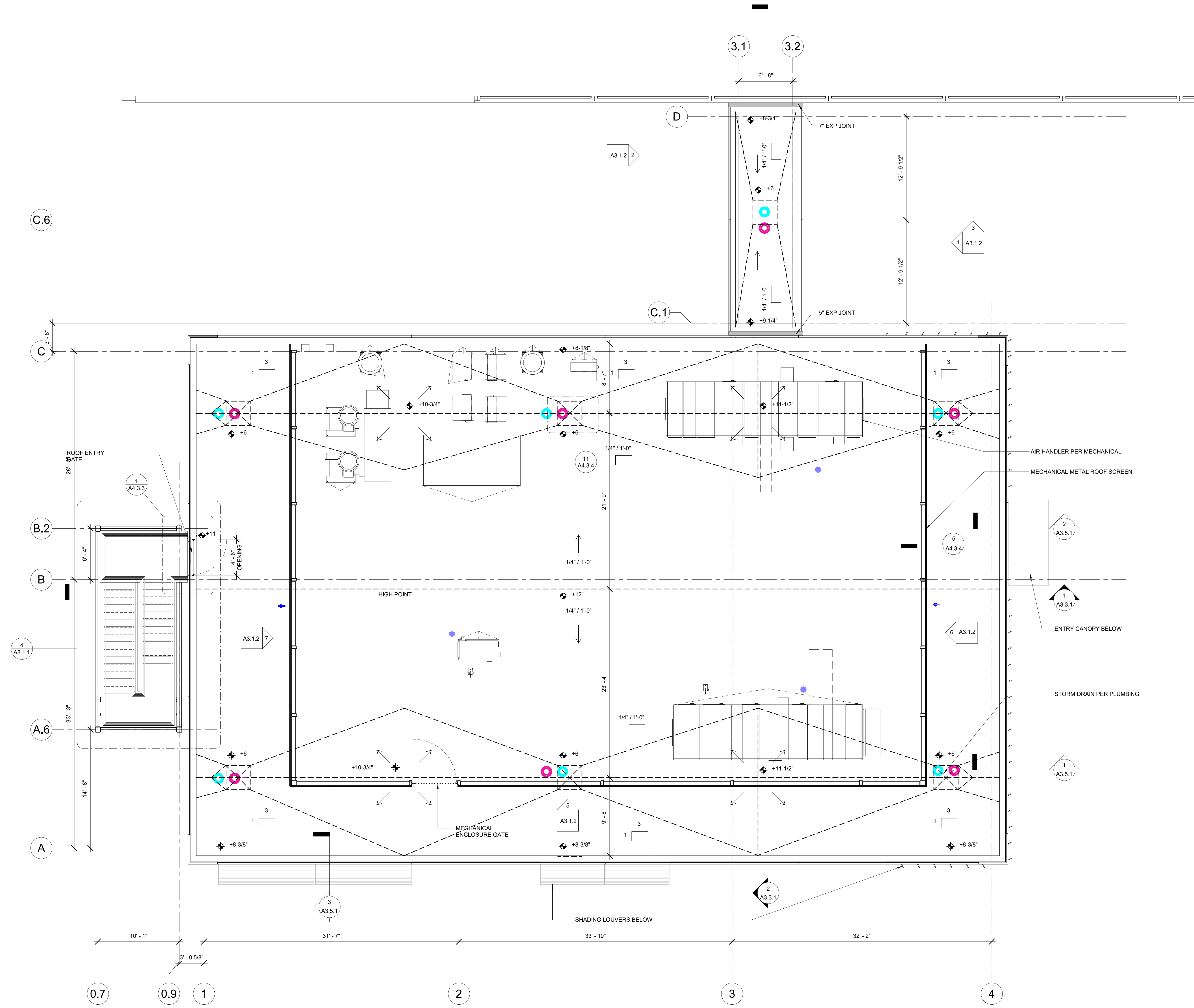
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LEVEL 2 REFERENCE PLAN

FLOOR/SECTION PHASE DRAWING NO.

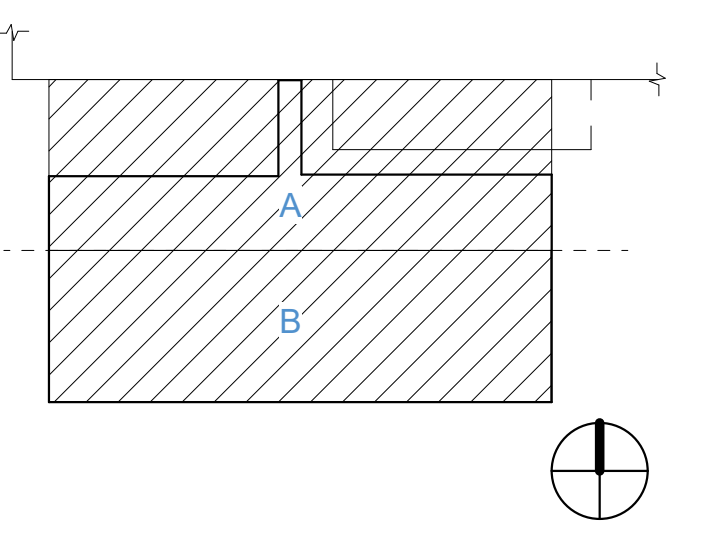
2 CD A1.2

NOT FOR CONSTRUCTION



1 ROOF LEVEL PLAN - PHASE 1
SCALE: 3/16" = 1'-0"

KEY PLAN



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PROJECT NO. 20230523 SCALE 3/16" = 1'-0"

DRAWING NAME

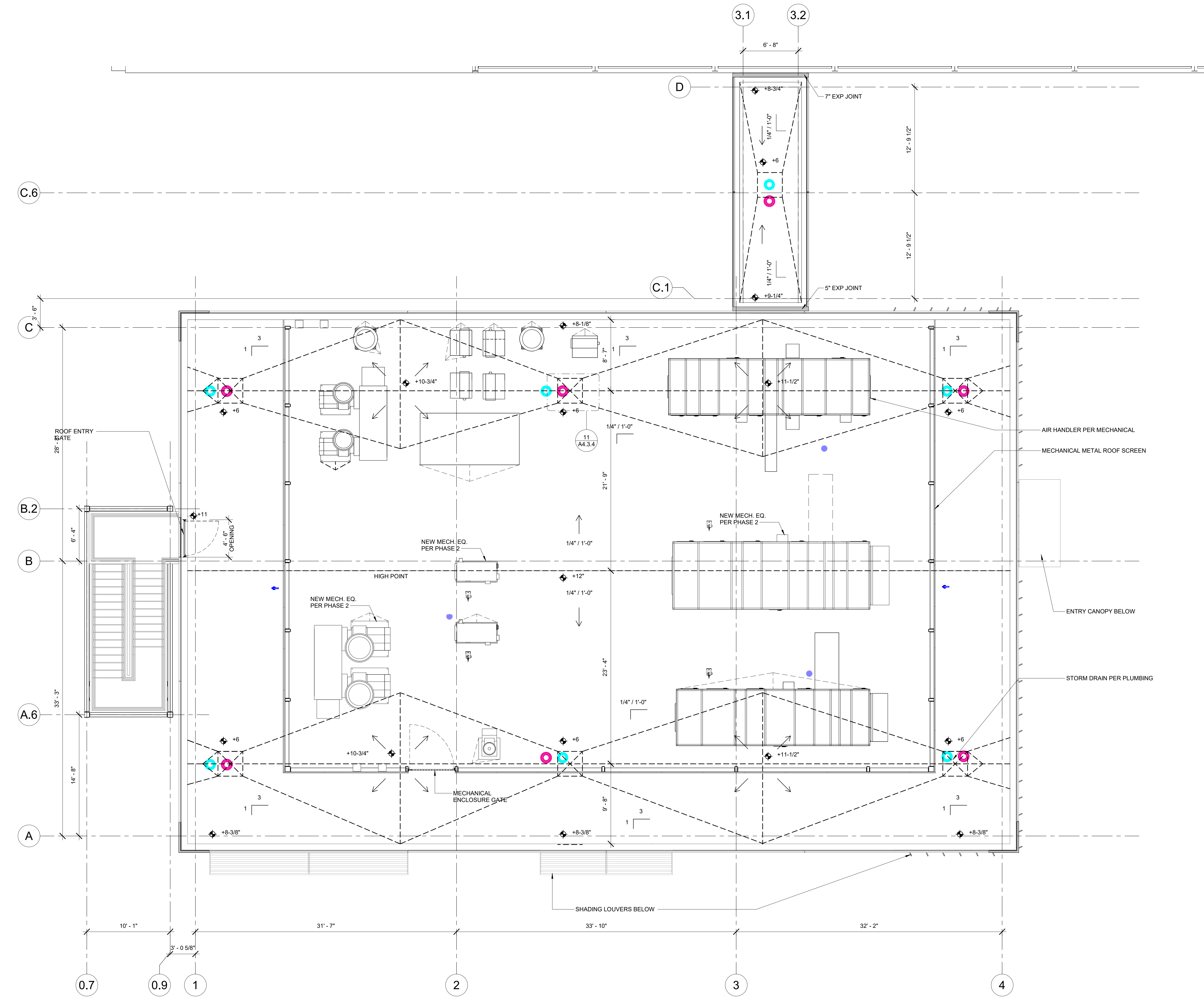
ROOF PLAN - PHASE 1

FLOOR/SECTION PHASE DRAWING NO.

RF CD A1.3

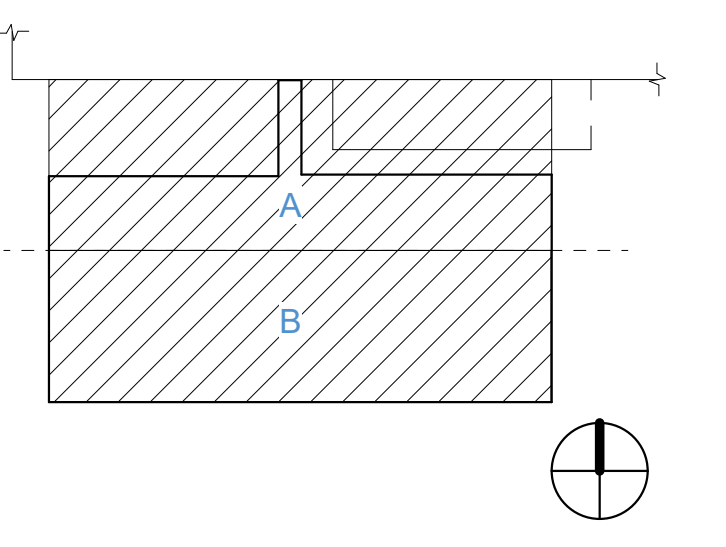
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1 ROOF LEVEL PLAN - PHASE 2
SCALE: 3/16" = 1'-0"

KEY PLAN



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PROJECT NO. 20230523 SCALE 3/16" = 1'-0"

DRAWING NAME
ROOF PLAN - PHASE 2

FLOOR/SECTION PHASE DRAWING NO.
RF CD A1.3.2

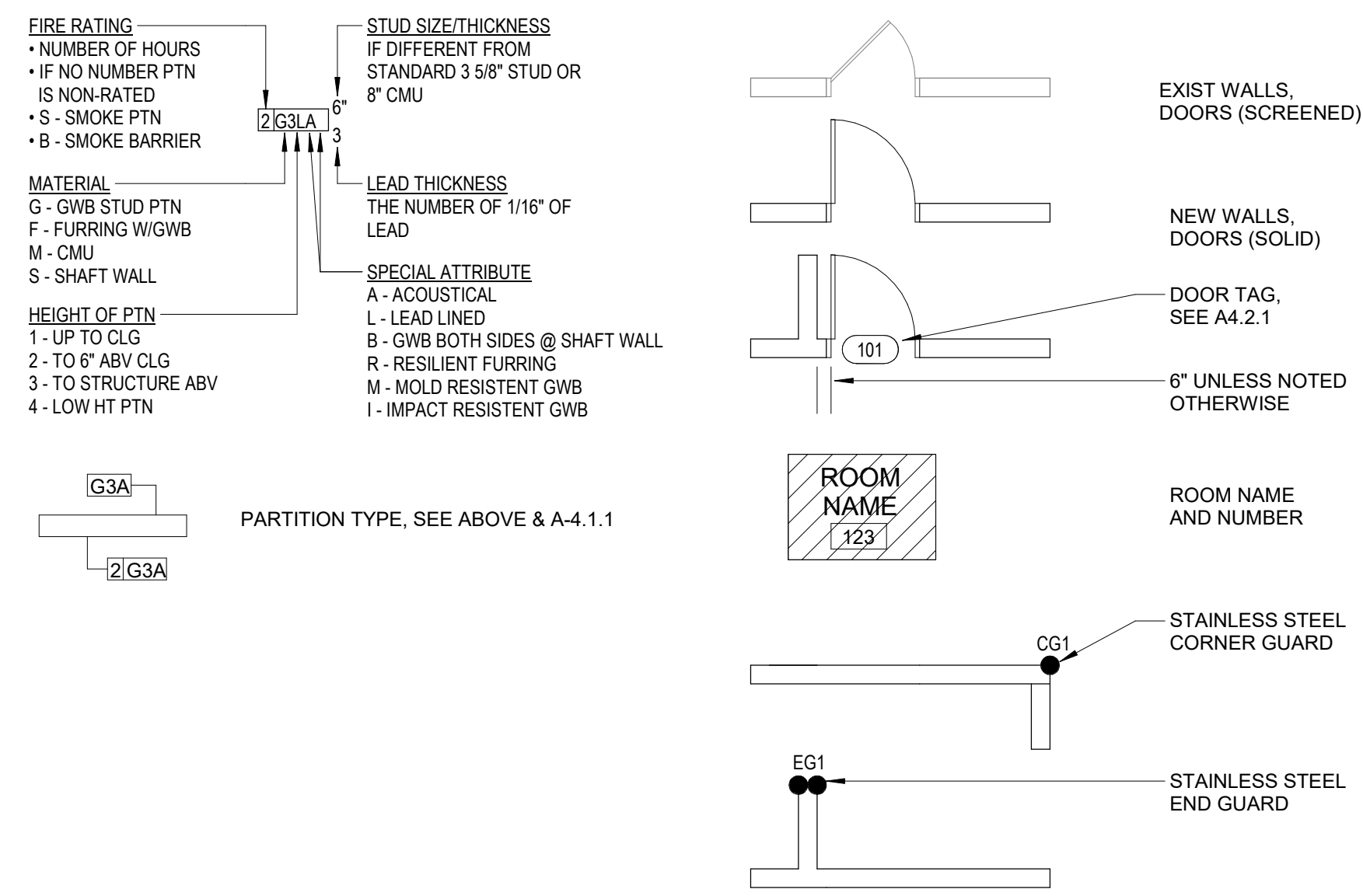
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11/8/2024 11:42:56 AM Autodesk Docs://20230523 - South Nevada Health District MLK BLDG 3 LAB/20230523_A22_CENTRAL.rvt

GENERAL NOTES

1. ALL WALLS TO BE G3 U.N.O.
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3. ALL DIMENSIONS ARE TO FACE OF FINISH U.N.O.
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6. PROVIDE BACKING/ANCHORAGE/SUPPORT FOR ALL PLUMBING FIXTURES, TOILET ACCESSORIES/PARTITION, CABINETRY PER STRUCT. DRAWINGS.

PLAN LEGEND

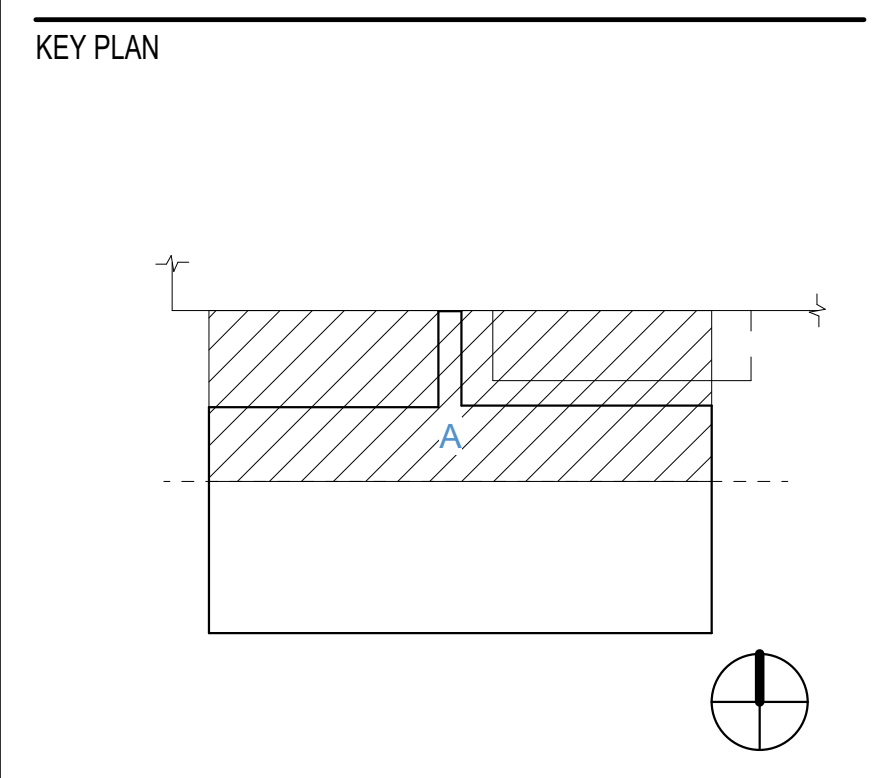
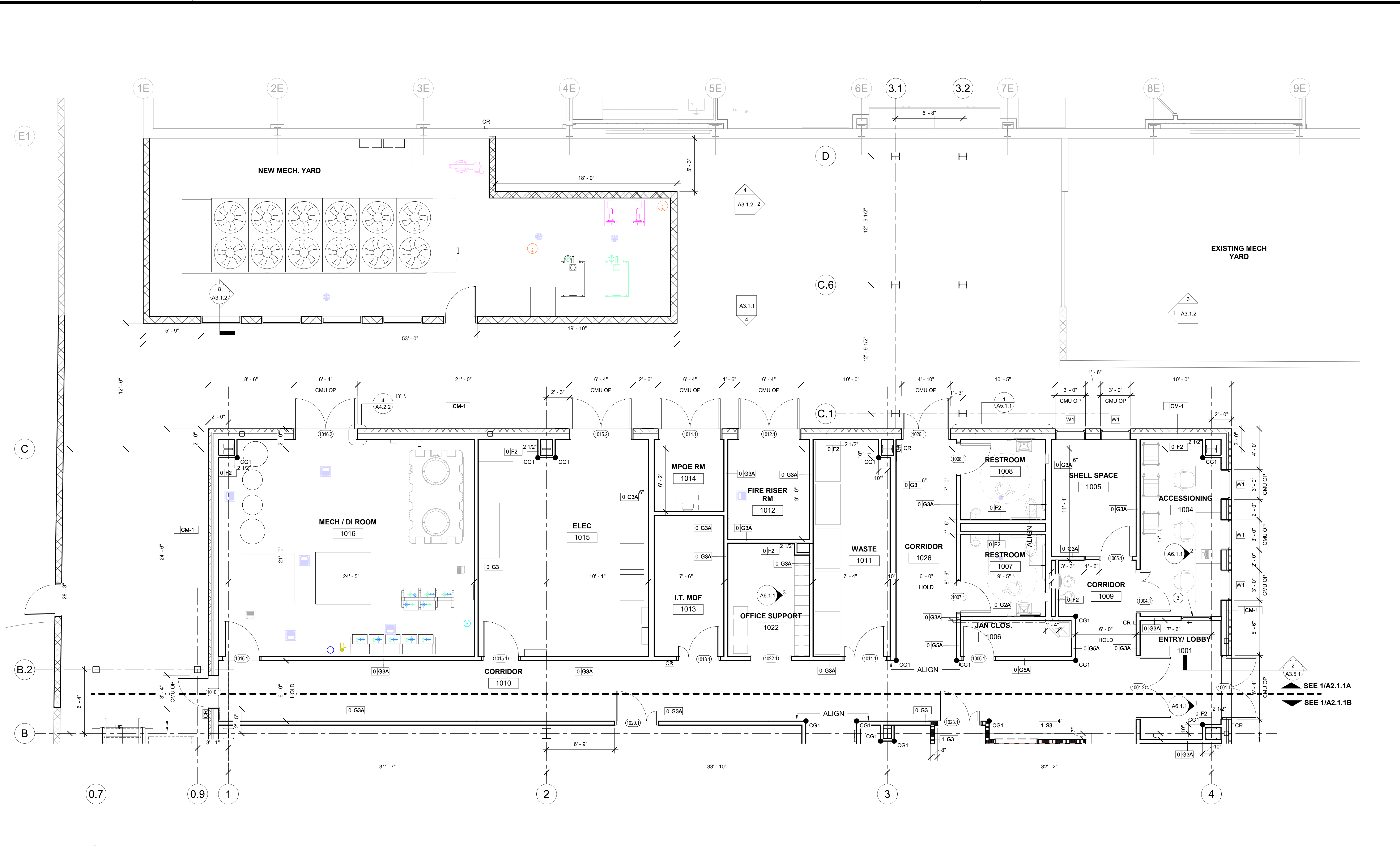


KEYNOTE LEGEND

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3. SLIDING TRANSACTION WINDOW

UTILITY LEGEND

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- VAC VACUUM
- LN2 LIQUID NITROGEN
- N2 NITROGEN GAS
- CDA CLEAN DRY AIR
- EP EMERGENCY POWER
- PW PURIFIED WATER
- D DATA PORT
- NP NORMAL POWER
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- ICW INDUSTRIAL COLD WATER
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PRINCIPAL
 DAVID KEITH
RESEARCH PLANNER
 STEPH VARGAS
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REVISIONS

NO.	BY	DESCRIPTION	DATE
1		ISSUED FOR GC BIDDING	11.08.2024
2		ISSUED FOR OWNER'S REVIEW	10.11.2024
3		DESIGN DEVELOPMENT	09.26.2024
4		50% DD SET	05.24.2024

Southern Nevada Health District
 700 South M.L.K. Blvd
 Las Vegas, NV 89106

DRAWN BY RM **DATE** 11.08.2024
PROJECT NO. 20230523 **SCALE** As indicated
DRAWING NAME
 FLOOR PLAN LEVEL 1 SECTOR A - DIMENSIONS & NOMENCLATURE PHASE 1
FLOOR/SECTION PHASE **DRAWING NO.**

1 CD A2.1.1A

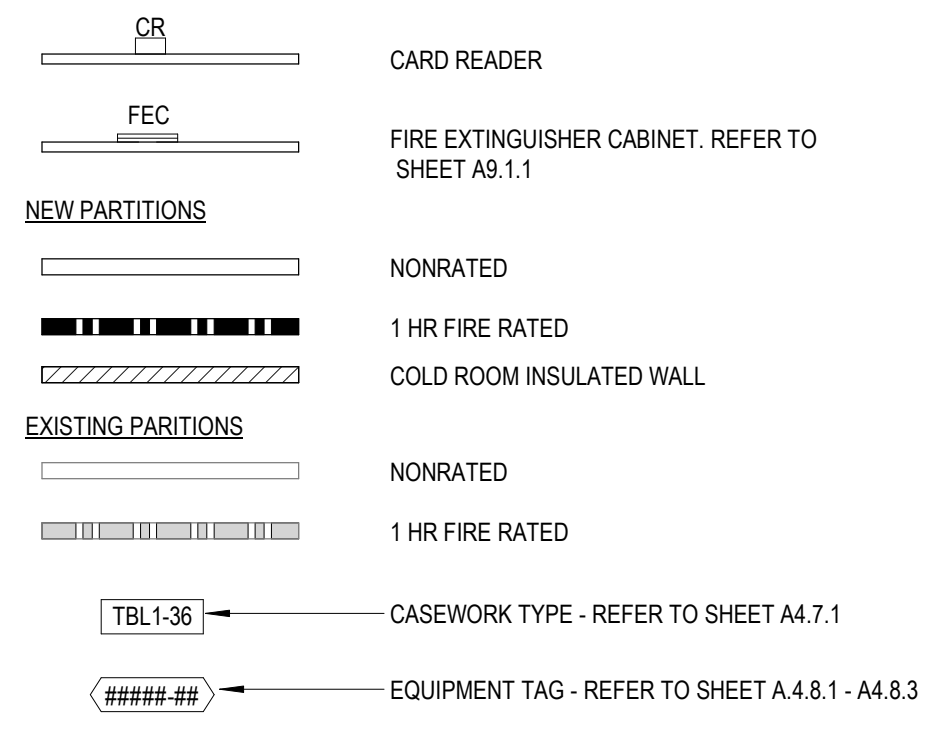
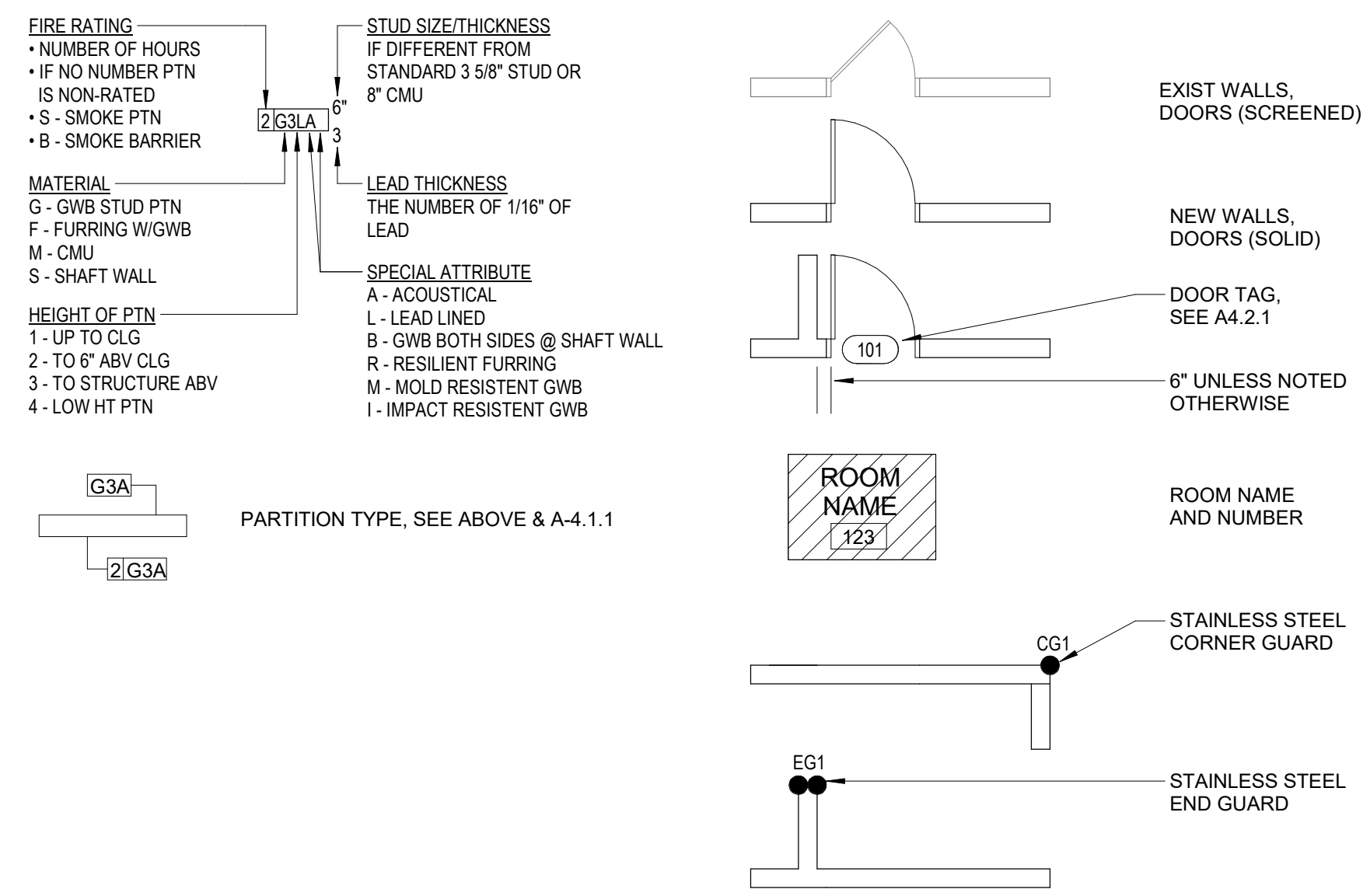
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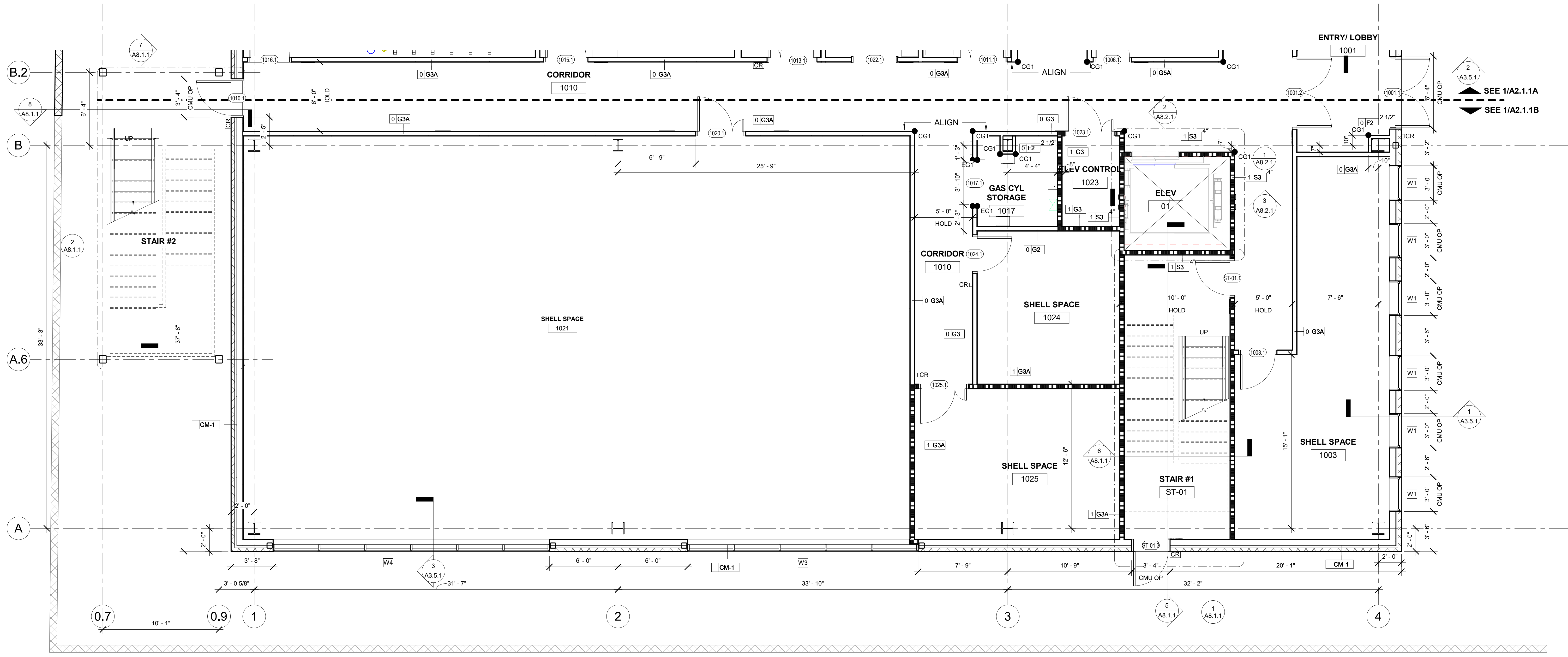


KEYNOTE LEGEND

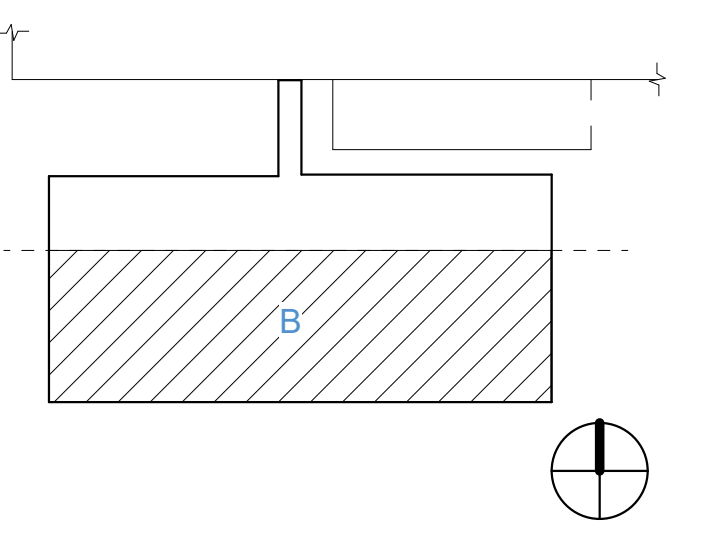
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KEY PLAN



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A			05.10.2024

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DRAWN BY: RM DATE: 11.08.2024

PROJECT NO. 20230523 SCALE As indicated

FLOOR PLAN LEVEL 1 SECTOR B - DIMENSIONS & NOMENCLATURE PHASE 1

FLOOR/SECTION PHASE DRAWING NO.

1 CD A2.1.1B

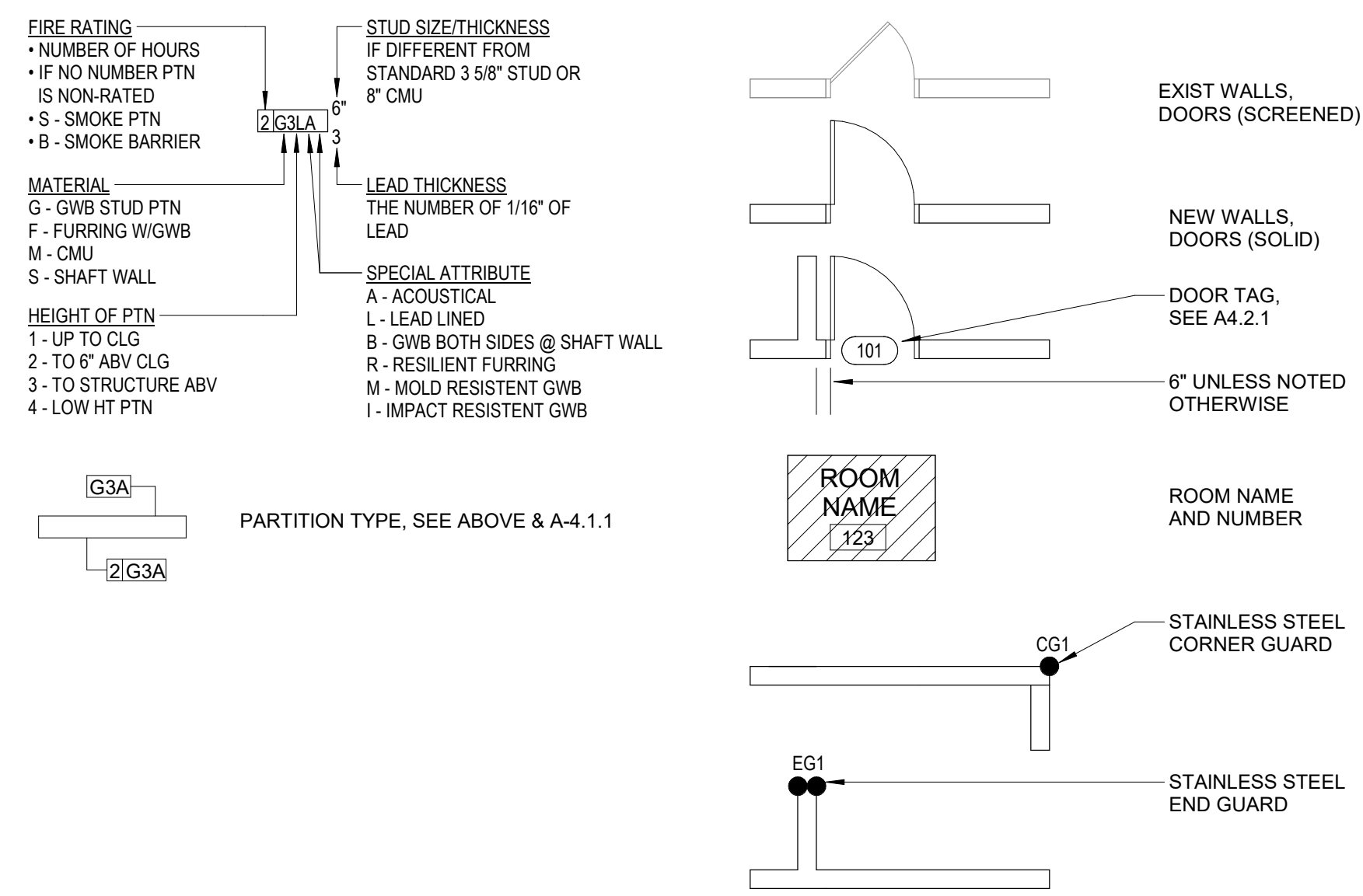
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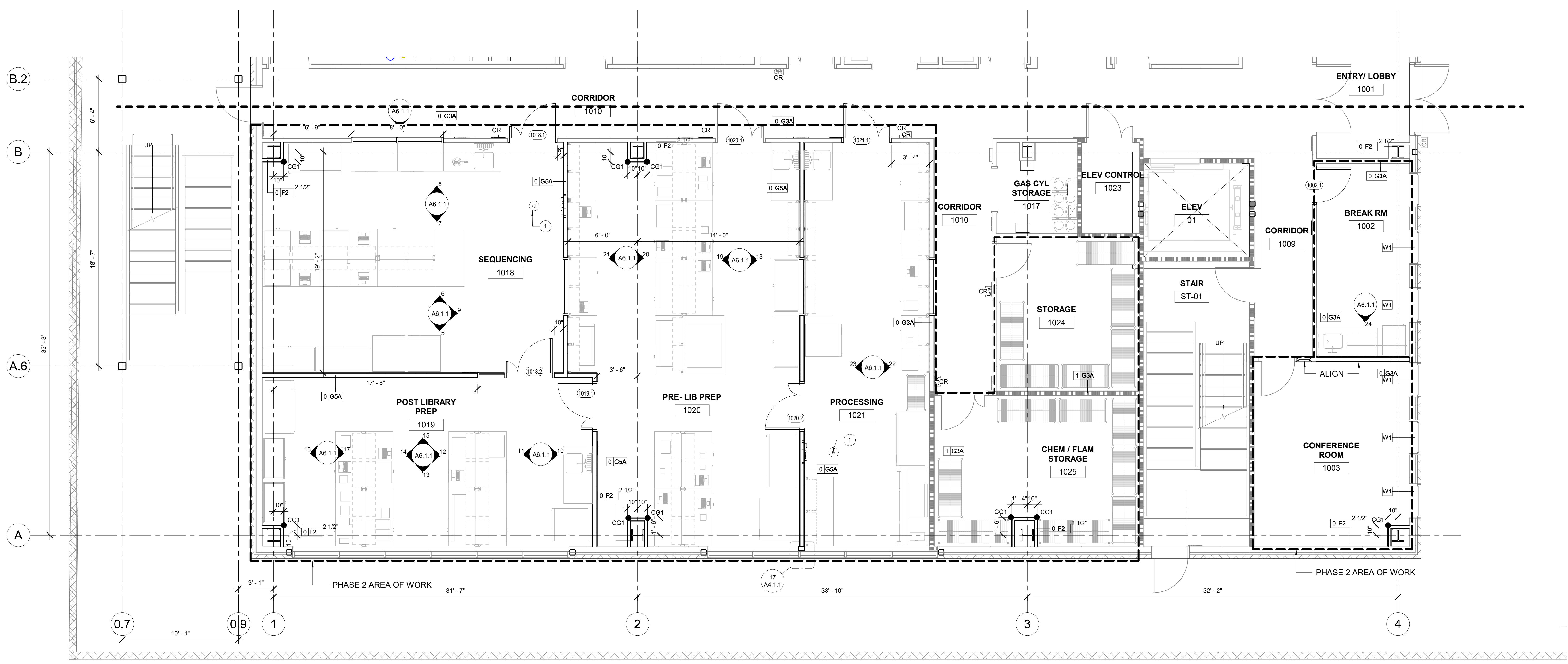


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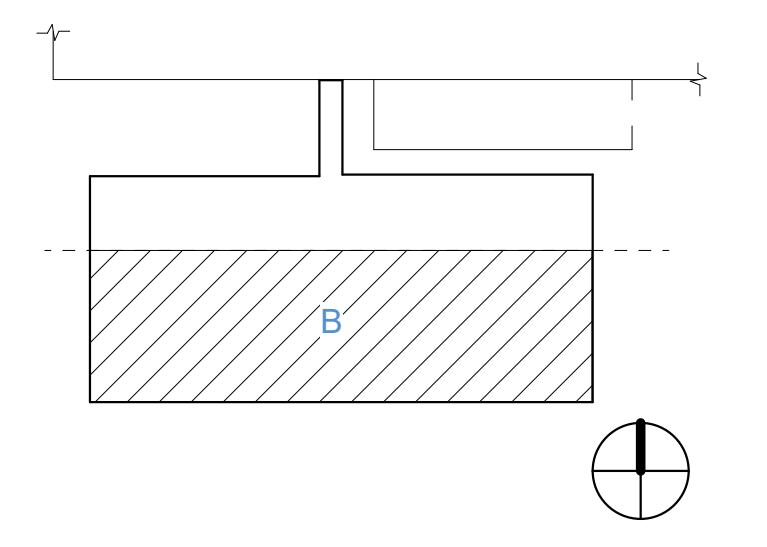
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- PW PURIFIED WATER
- D DATA PORT
- NP NORMAL POWER
- UPS UNINTERRUPTIBLE POWER SUPPLY
- CW INDUSTRIAL COLD WATER
- HW INDUSTRIAL HOT WATER



1 LEVEL 1 - SECTOR B - PHASE II
 SCALE: 1/4" = 1'-0"

KEY PLAN



PRINCIPAL
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 RESEARCH PLANNER
 STEPH VARGAS
 ARCHITECT
 ROBERT MCCONNELL
 ARCHITECTURAL DESIGNER
 RICARDO MOLINA

REVISIONS

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C		ISSUED FOR OWNER'S REVIEW	09.26.2024

Southern Nevada Health District
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 Las Vegas, NV 89106

DRAWN BY _____ RM _____ DATE 11.08.2024

PROJECT NO. 20230523 SCALE As indicated

FLOOR PLAN LEVEL 1 SECTOR B - DIMENSIONS & NOMENCLATURE PHASE 2

FLOOR/SECTION PHASE DRAWING NO.

1 CD A2.1.1.B.2

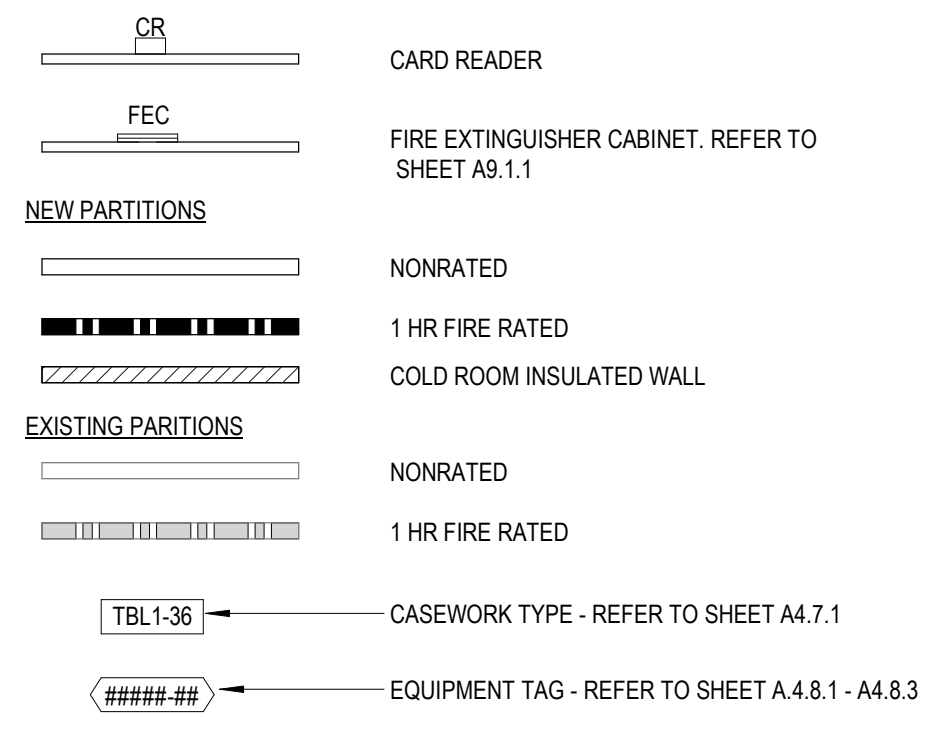
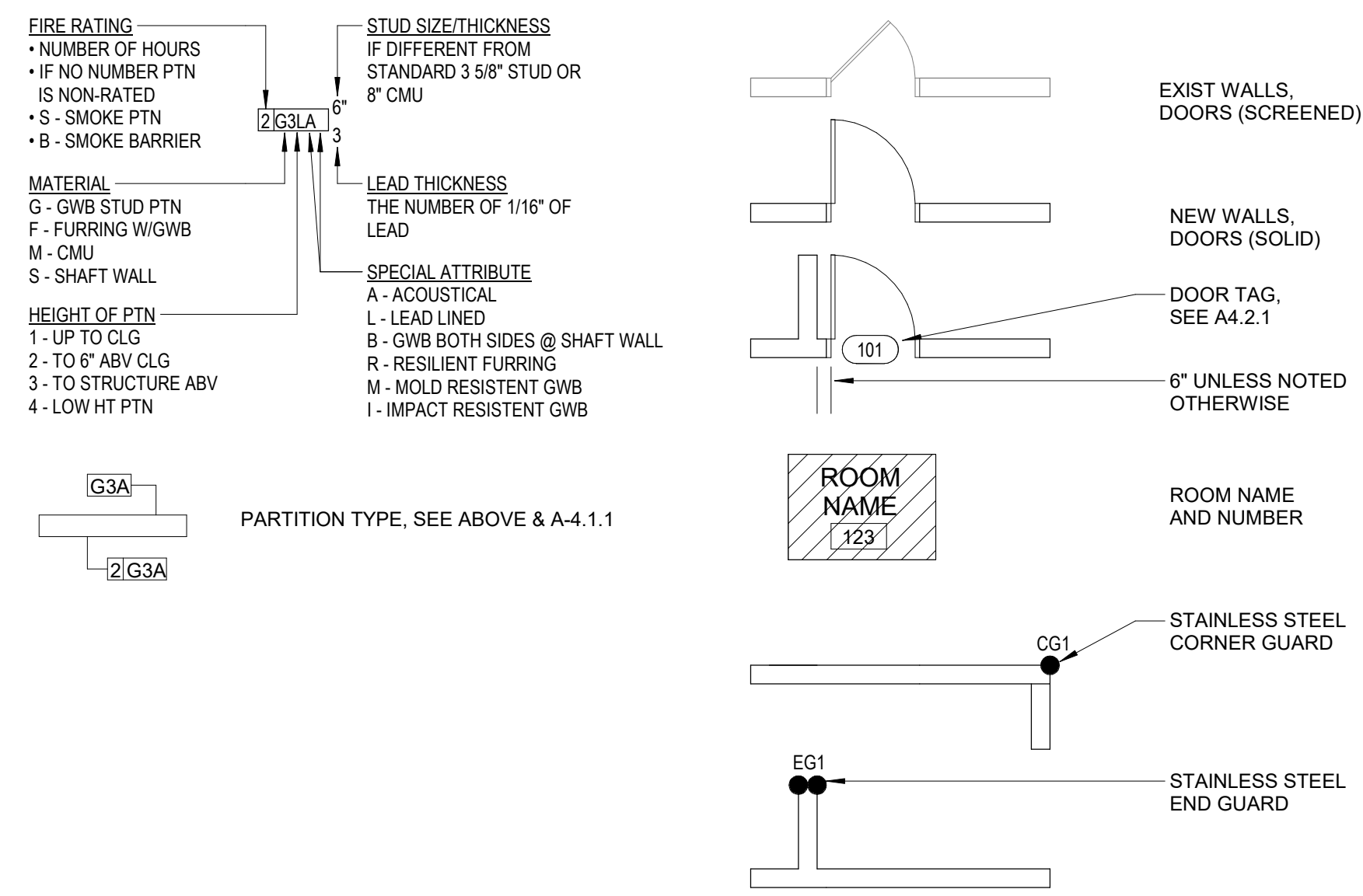
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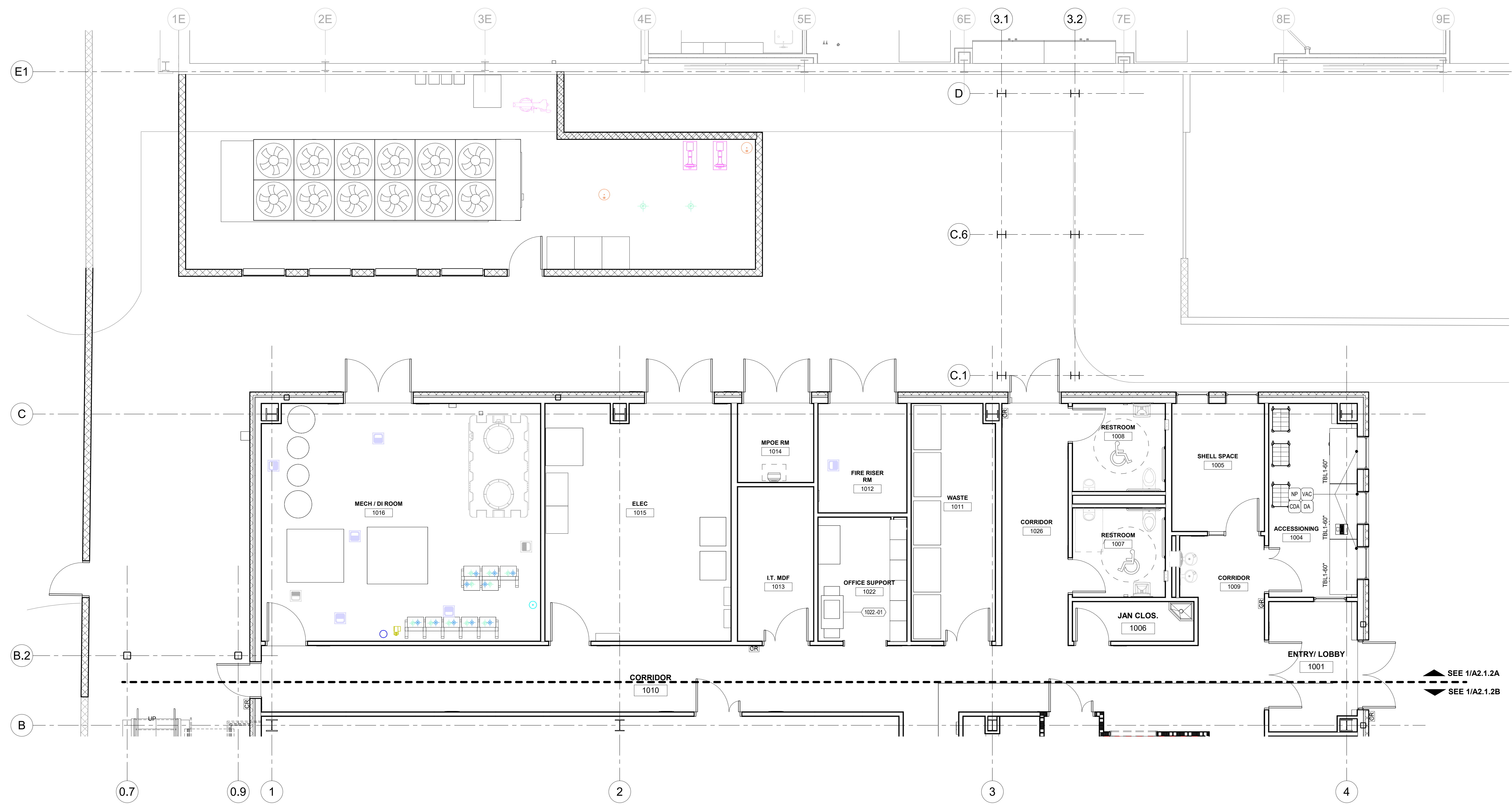


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UTILITY LEGEND

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- IHW INDUSTRIAL HOT WATER



1 LEVEL 1 FLOOR PLAN EQUIPMENT SECTOR A - PHASE 1
 SCALE: 1/4" = 1'-0"

NOT FOR CONSTRUCTION

401 West A Street, Suite 320
 San Diego, CA 92101
 Tel: 949-417-7550

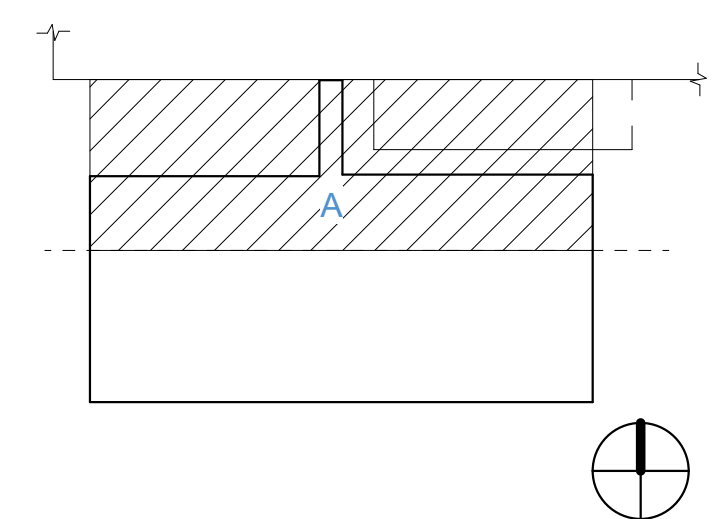
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 CONSULTANTS

latitude **33**
 PLANNING & ENGINEERING

TERP consulting
 fire • life safety



KEY PLAN



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DRAWN BY RM **DATE** 11.08.2024
PROJECT NO. 20230523 **SCALE** As indicated
DRAWING NAME
 FLOOR PLAN LEVEL 1 SECTOR A - EQUIPMENT & CASEWORK
 PHASE 1

FLOOR/SECTION PHASE 1 **CD** **DRAWING NO.** A21.1.2A

11/8/2024 11:43:39 AM Autodesk Docs://20230523 - South Nevada Health District MLK BLDG 3 LAB/20230523_A22_CENTRAL.rvt

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PLAN LEGEND

FIRE RATING
 • NUMBER OF HOURS
 • IF NO NUMBER PTN IS NON-RATED
 • S - SMOKE PTN
 • B - SMOKE BARRIER

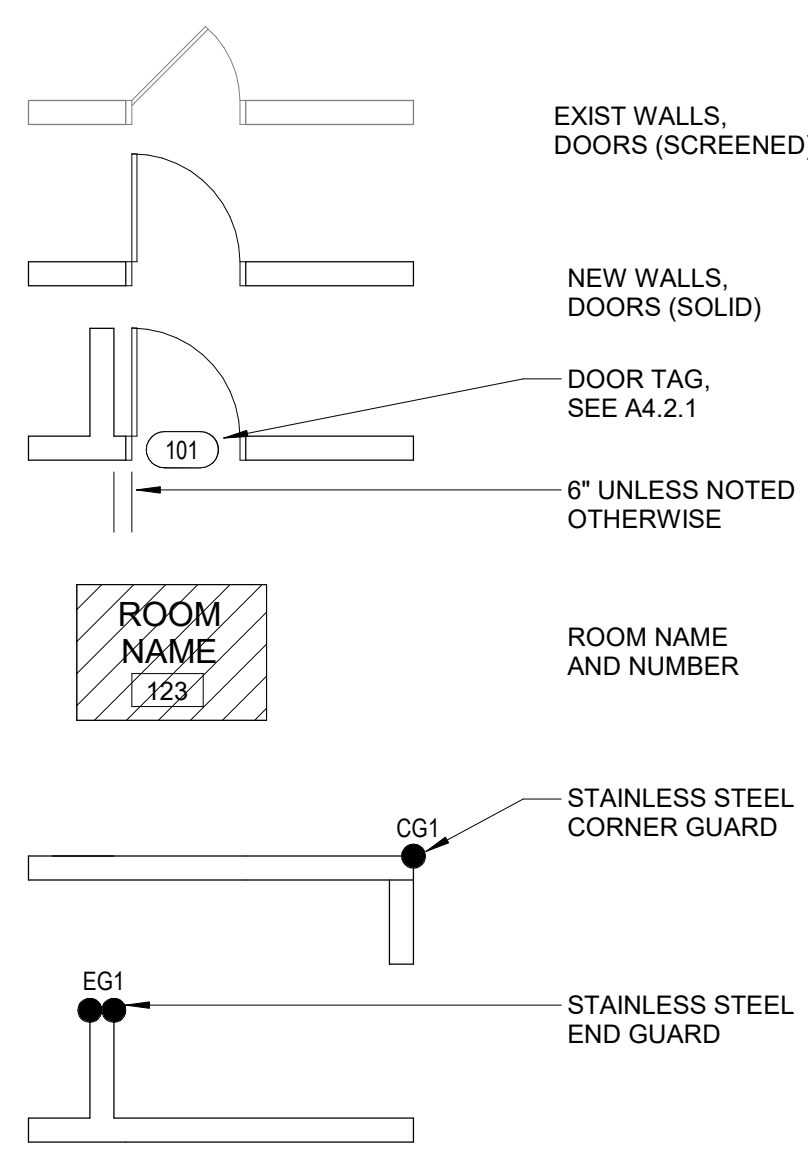
MATERIAL
 G - GWS STUD PTN
 F - FURRING WIGWB
 M - CMU
 S - SHAFT WALL

STUD SIZE/THICKNESS
 IF DIFFERENT FROM STANDARD 3 5/8" STUD OR 8" CMU

LEAD THICKNESS
 THE NUMBER OF 1/16" OF LEAD

SPECIAL ATTRIBUTE
 A - ACOUSTICAL
 L - LEAD LINED
 B - GWS BOTH SIDES @ SHAFT WALL
 R - RESILIENT FURRING
 M - MOLD RESISTANT GWB
 I - IMPACT RESISTANT GWB

HEIGHT OF PTN
 1 - UP TO CLG
 2 - TO 6' ABV CLG
 3 - TO STRUCTURE ABV
 4 - LOW HT PTN



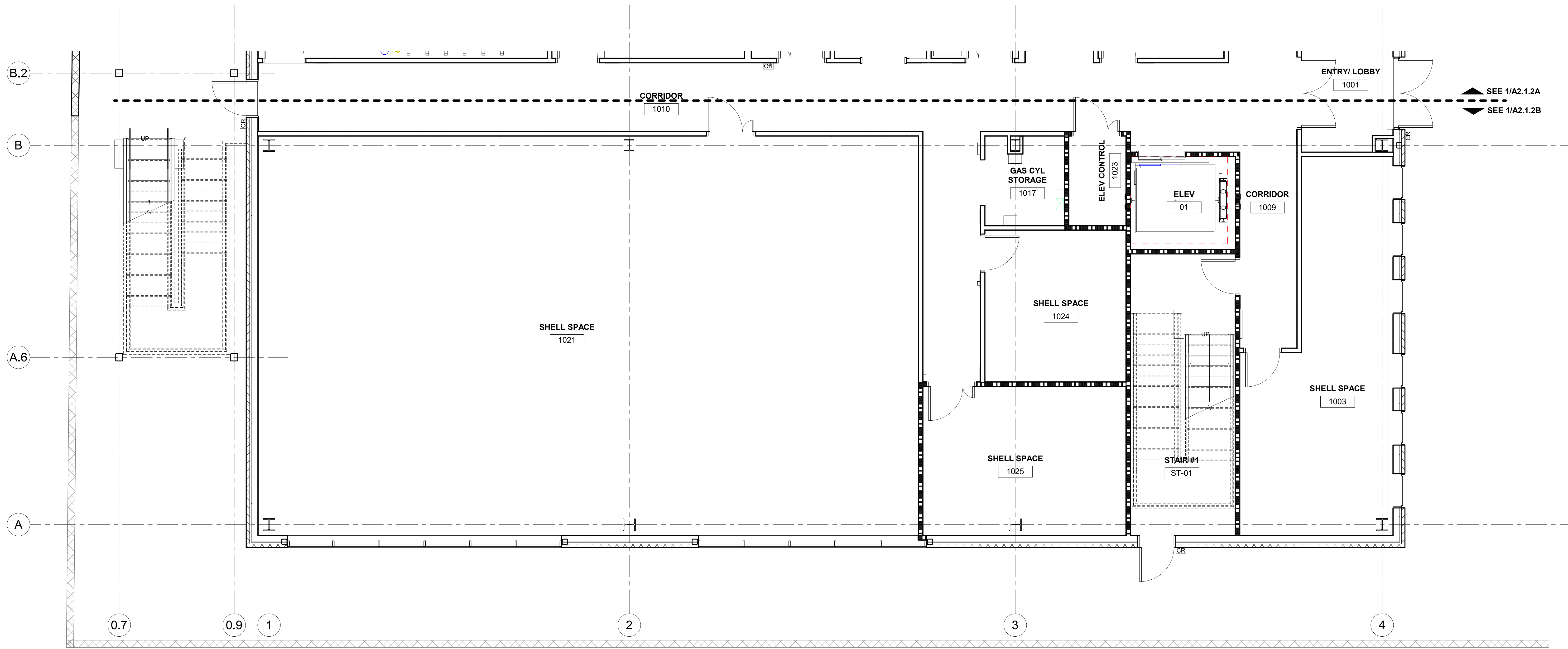
- EXIST WALLS, DOORS (SCREENED)**
- NEW WALLS, DOORS (SOLID)**
- DOOR TAG, SEE A4.2.1**
- 6" UNLESS NOTED OTHERWISE**
- ROOM NAME AND NUMBER**
- STAINLESS STEEL CORNER GUARD**
- STAINLESS STEEL END GUARD**
- NEW PARTITIONS**
- EXISTING PARTITIONS**
- CR** - CARD READER
- FEC** - FIRE EXTINGUISHER CABINET. REFER TO SHEET A8.1.1
- NONRATED**
- 1 HR FIRE RATED**
- COLD ROOM INSULATED WALL**
- NONRATED**
- 1 HR FIRE RATED**
- TBL1-36** - CASEWORK TYPE - REFER TO SHEET A4.7.1
- ####-##** - EQUIPMENT TAG - REFER TO SHEET A4.8.1 - A4.8.3

KEYNOTE LEGEND

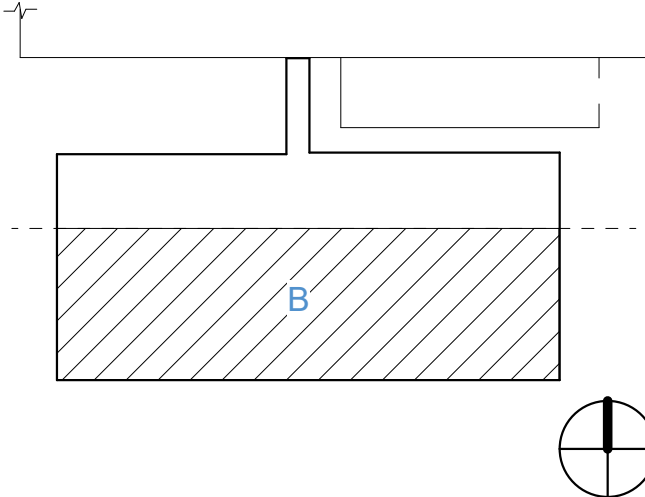
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DRAWN BY RM **DATE** 11.08.2024

PROJECT NO. 20230523 **SCALE** As indicated

DRAWING NAME
 FLOOR PLAN LEVEL 1 SECTOR B - EQUIPMENT & CASEWORK PHASE 1

FLOOR/SECTION PHASE 1 **CD** **DRAWING NO.** A2.1.2B

NOT FOR CONSTRUCTION

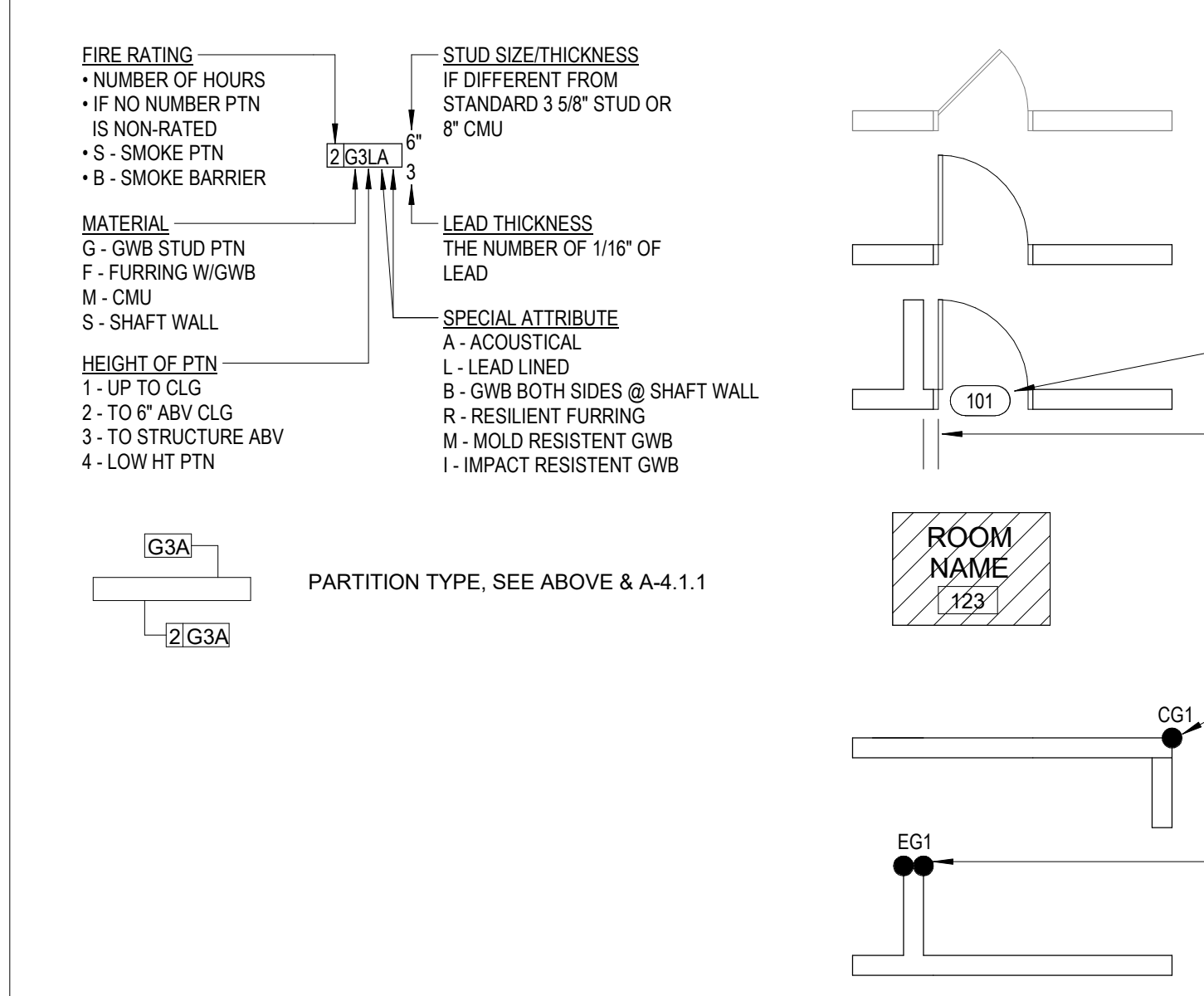
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1 LEVEL 1 FLOOR PLAN EQUIPMENT SECTOR B - PHASE I
 SCALE: 1/8" = 1'-0"

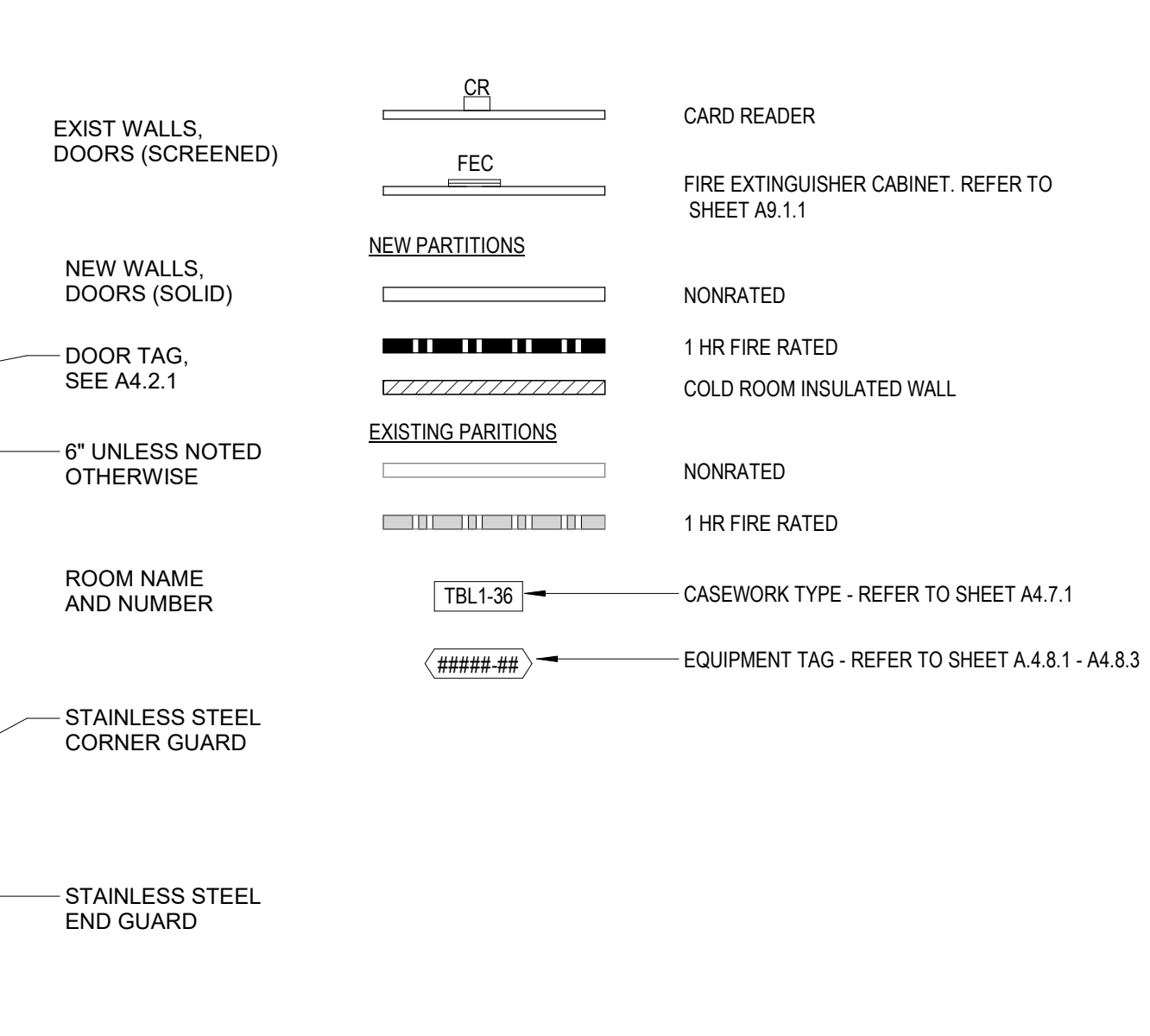
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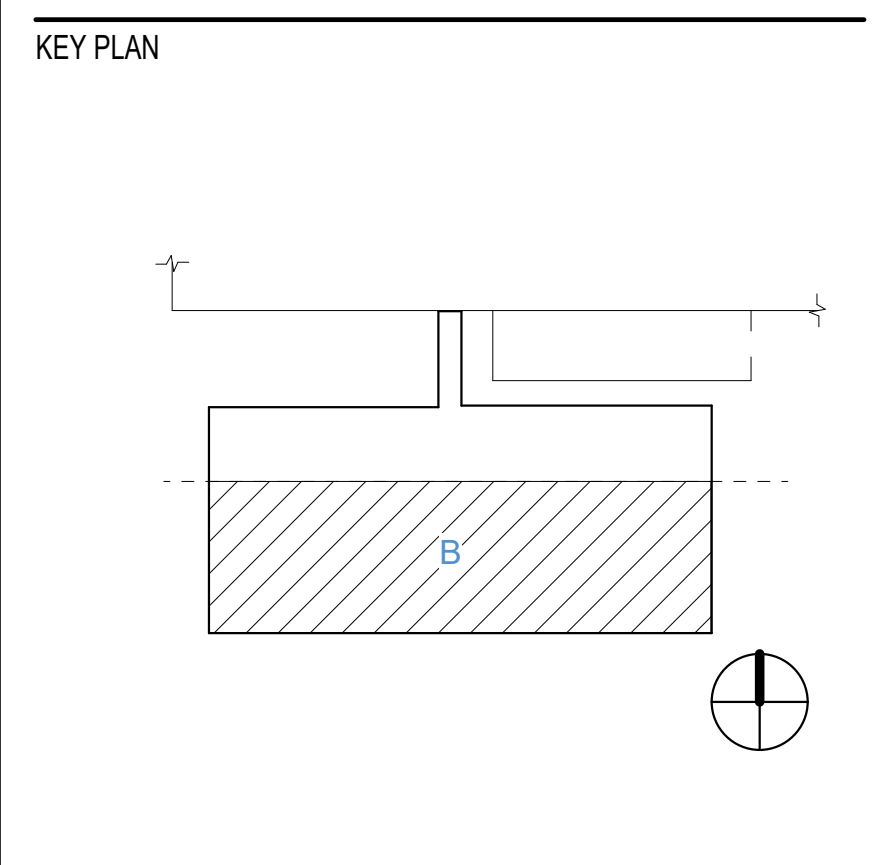
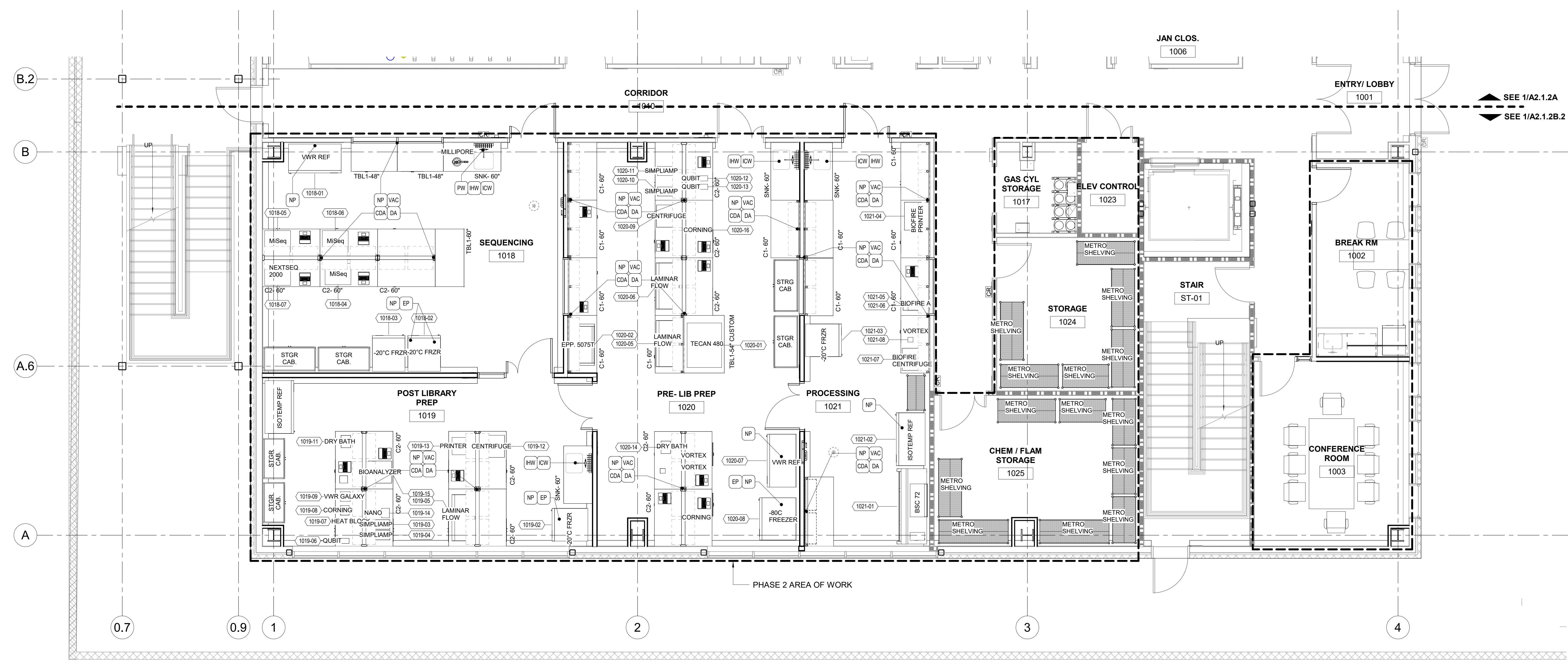
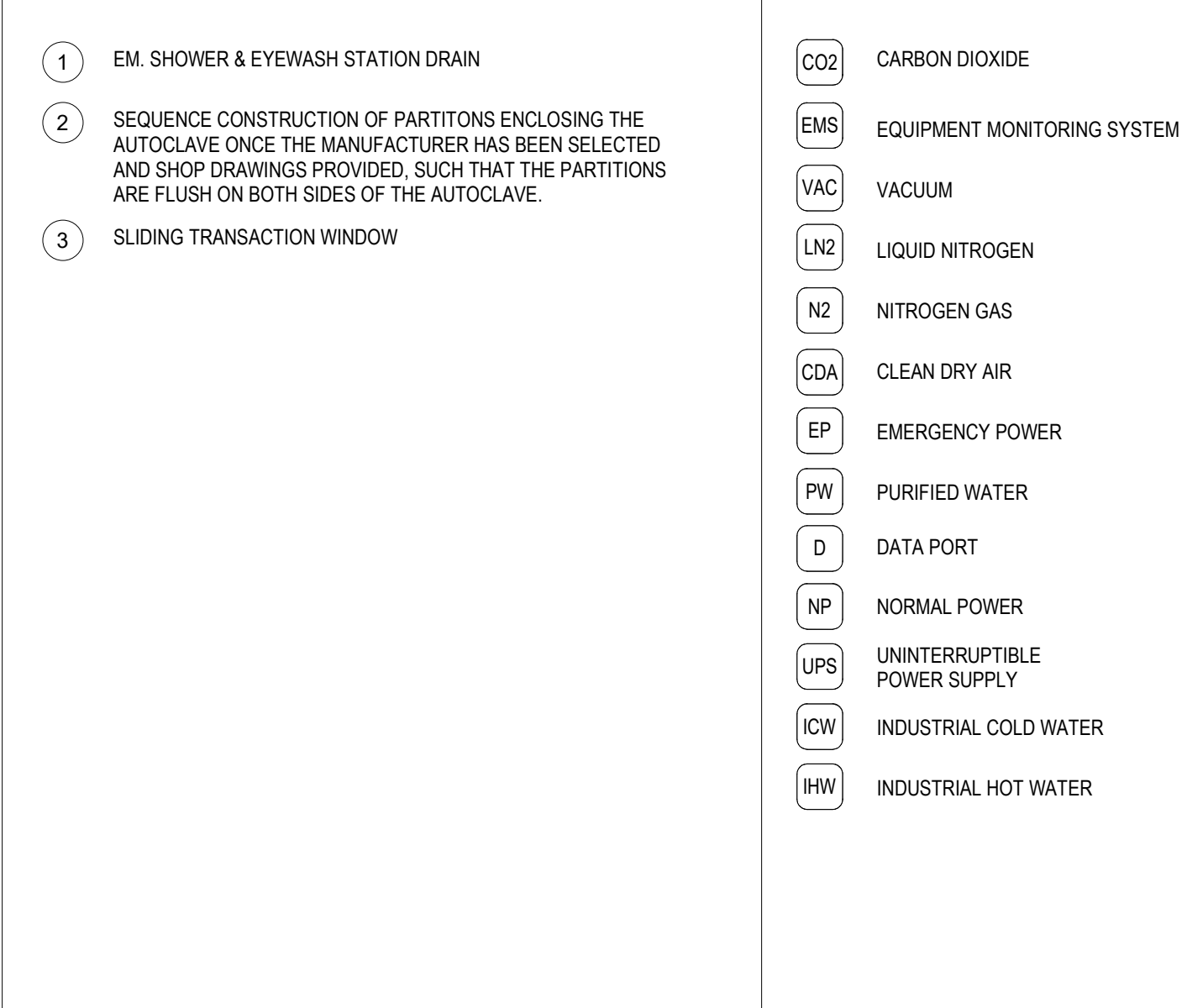
PLAN LEGEND



KEYNOTE LEGEND



UTILITY LEGEND



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1 LEVEL 1 FLOOR PLAN EQUIPMENT SECTOR B - PHASE II
 SCALE: 1/4" = 1'-0"

Southern Nevada Health District
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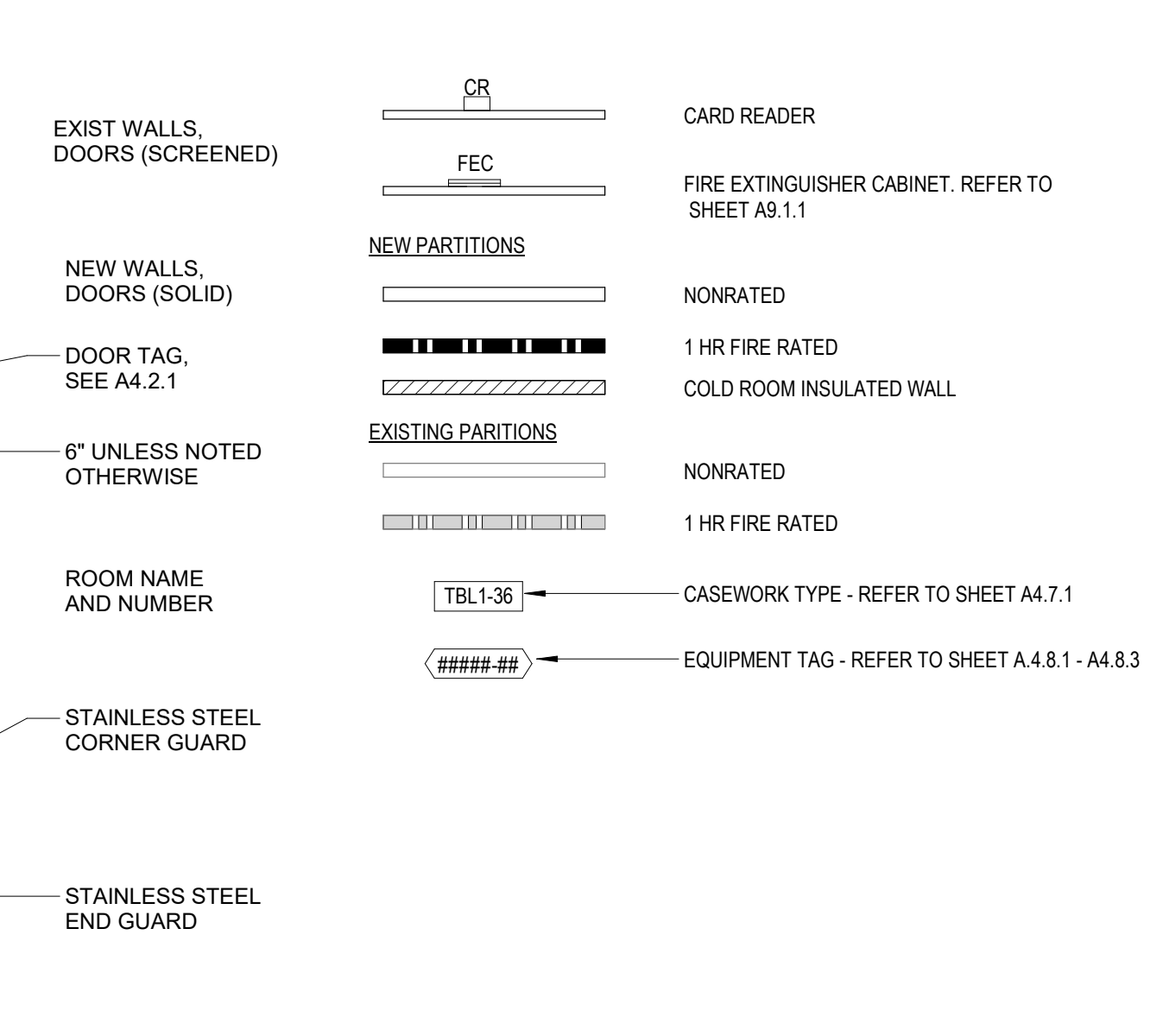
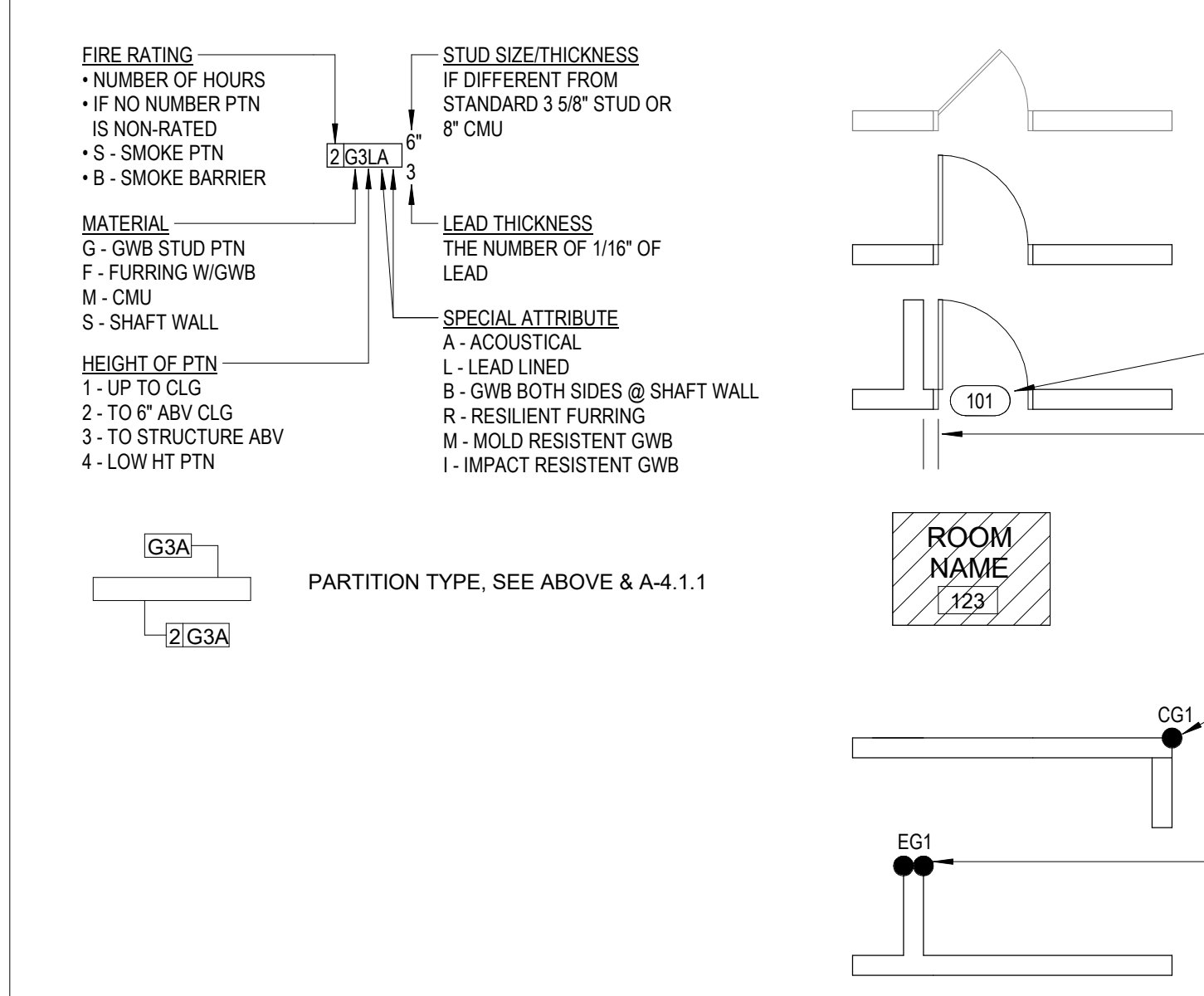
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PROJECT NO.	20230523	SCALE	As indicated
DRAWING NAME			
FLOOR PLAN LEVEL 1 SECTOR B - EQUIPMENT & CASEWORK PHASE 2			
FLOOR/SECTION	PHASE	DRAWING NO.	

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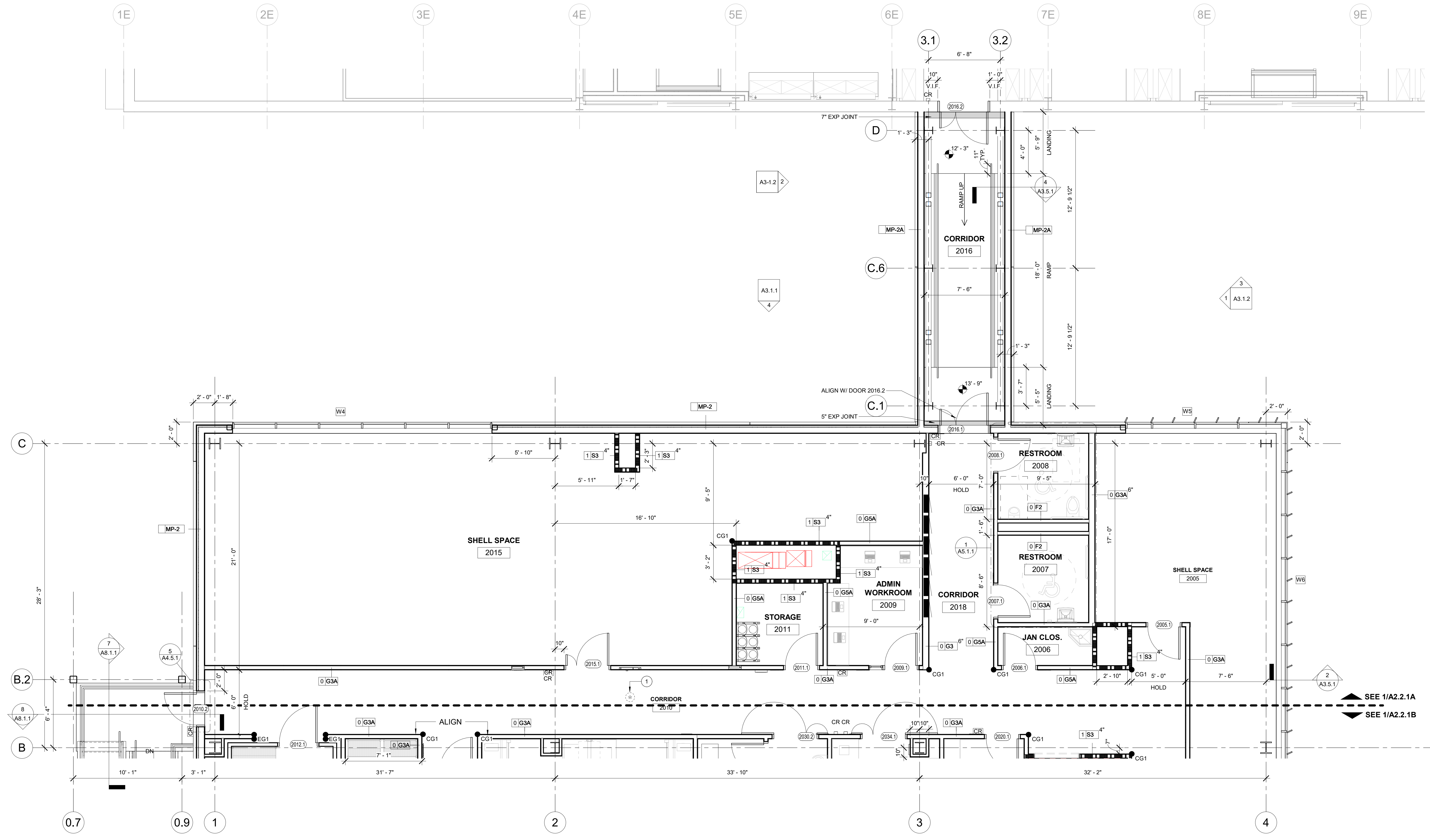


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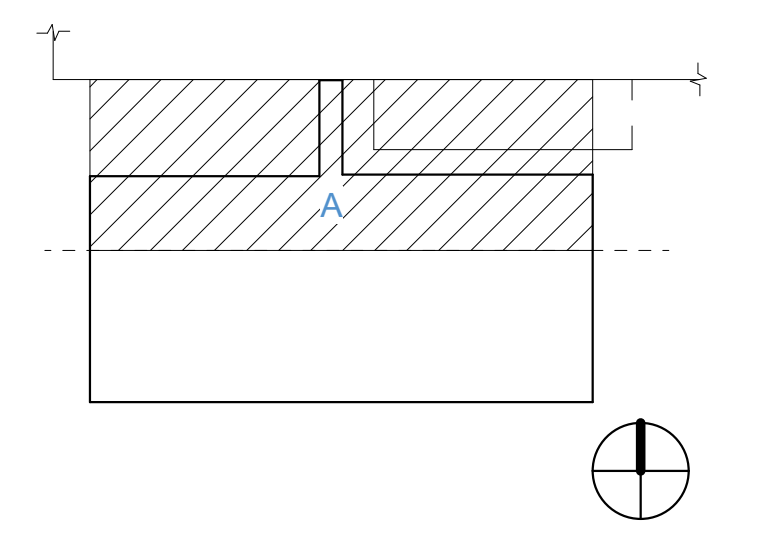
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FLOOR PLAN LEVEL 2 SECTOR A - DIMENSIONS & NOMENCLATURE PHASE 1

FLOOR/SECTION PHASE DRAWING NO.

2 CD A2.2.1A

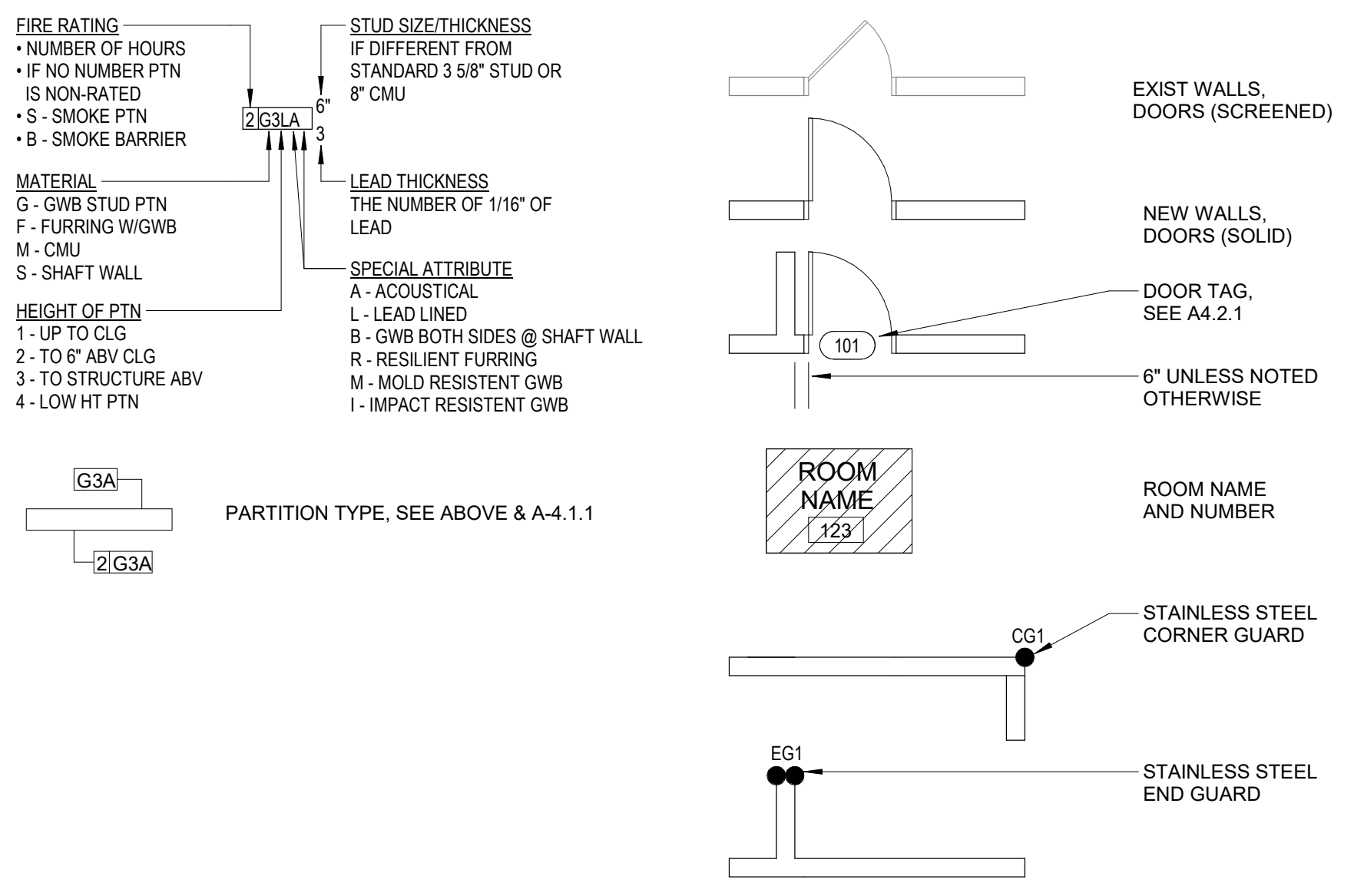
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- REFER TO FINISH PLANS FOR ALL FINISHES AND WALL PROTECTION ITEMS.
- PROVIDE BACKING/ANCHORAGE/SUPPORT FOR ALL PLUMBING FIXTURES, TOILET ACCESSORIES/PARTITION, CABINETRY PER STRUCT. DRAWINGS.

PLAN LEGEND



KEYNOTE LEGEND

- EM. SHOWER & EYEWASH STATION DRAIN
 - SEQUENCE CONSTRUCTION OF PARTITIONS ENCLOSING THE AUTOCLAVE ONCE THE MANUFACTURER HAS BEEN SELECTED AND SHOP DRAWINGS PROVIDED, SUCH THAT THE PARTITIONS ARE FLUSH ON BOTH SIDES OF THE AUTOCLAVE.
 - SLIDING TRANSACTION WINDOW
- CR** CARD READER
- FEC** FIRE EXTINGUISHER CABINET. REFER TO SHEET A8.1.1
- NEW PARTITIONS**
- NONRATED
- 1 HR FIRE RATED
- COLD ROOM INSULATED WALL
- NONRATED
- 1 HR FIRE RATED
- EXISTING PARTITIONS**
- NONRATED
- 1 HR FIRE RATED
- TBL1-36** CASEWORK TYPE - REFER TO SHEET A4.7.1
- ####-##** EQUIPMENT TAG - REFER TO SHEET A4.8.1 - A4.8.3

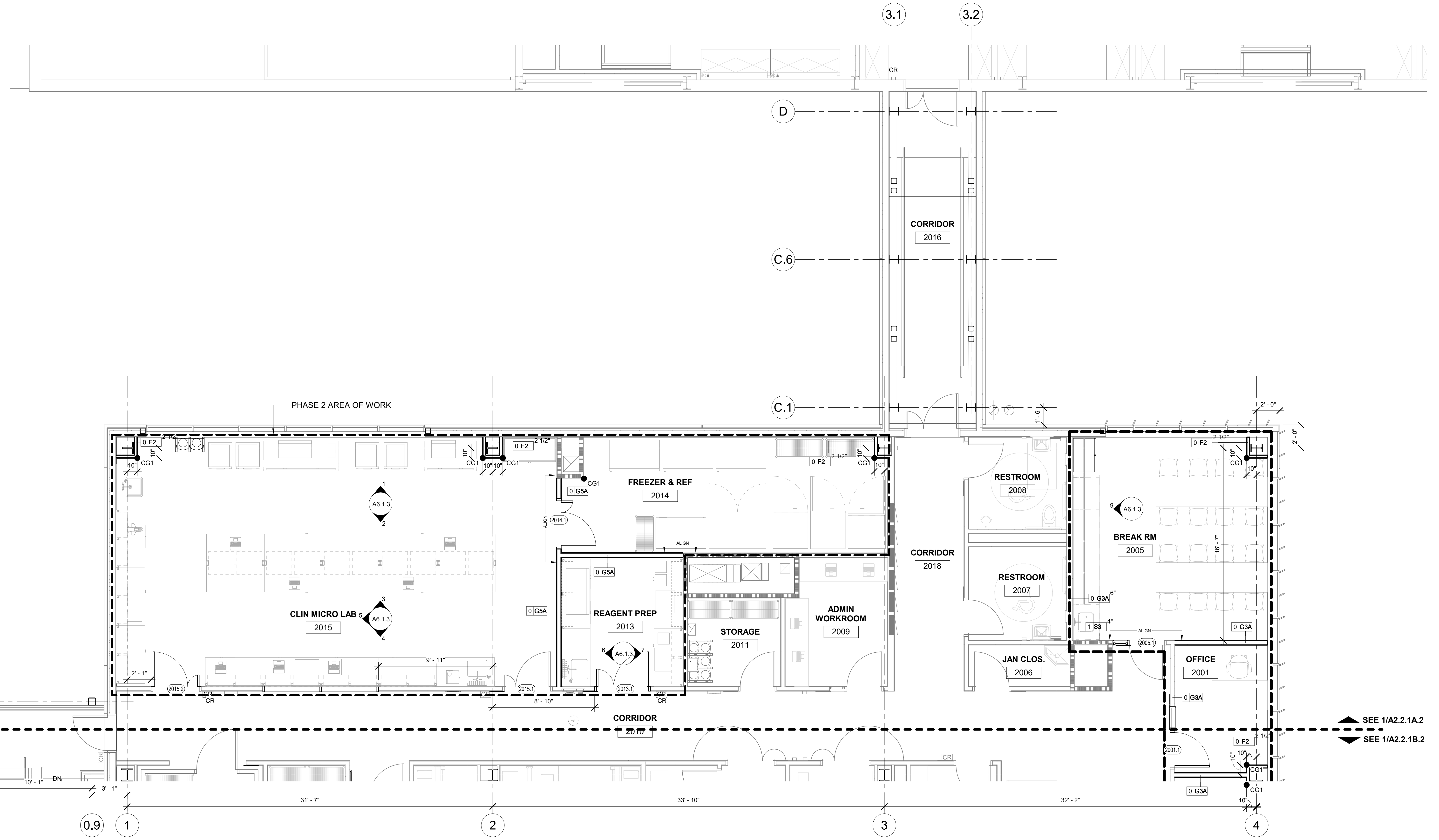
UTILITY LEGEND

- C02** CARBON DIOXIDE
- EMS** EQUIPMENT MONITORING SYSTEM
- VAC** VACUUM
- LN2** LIQUID NITROGEN
- N2** NITROGEN GAS
- CDA** CLEAN DRY AIR
- EP** EMERGENCY POWER
- PW** PURIFIED WATER
- D** DATA PORT
- NP** NORMAL POWER
- UPS** UNINTERRUPTIBLE POWER SUPPLY
- ICW** INDUSTRIAL COLD WATER
- IHW** INDUSTRIAL HOT WATER

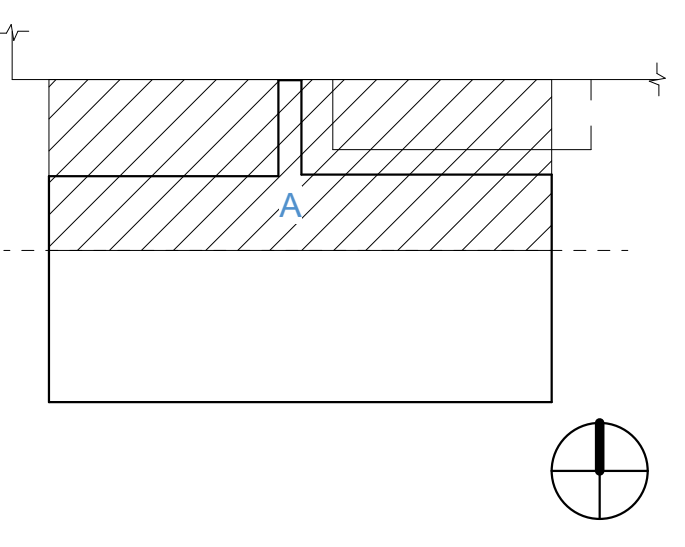


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 CONSULTANTS



KEY PLAN



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 ARCHITECTURAL DESIGNER
 RICARDO MOLINA

REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D			10.11.2024
C		ISSUED FOR OWNER'S REVIEW	09.26.2024

Southern Nevada Health District
 700 South M.L.K. Blvd
 Las Vegas, NV 89106

DRAWN BY: RM DATE: 11.08.2024

PROJECT NO. 20230523 SCALE As indicated

FLOOR PLAN LEVEL 2 SECTOR A - DIMENSIONS & NOMENCLATURE PHASE 2

FLOOR/SECTION PHASE DRAWING NO.

2 CD A2.2.1A.2

NOT FOR CONSTRUCTION

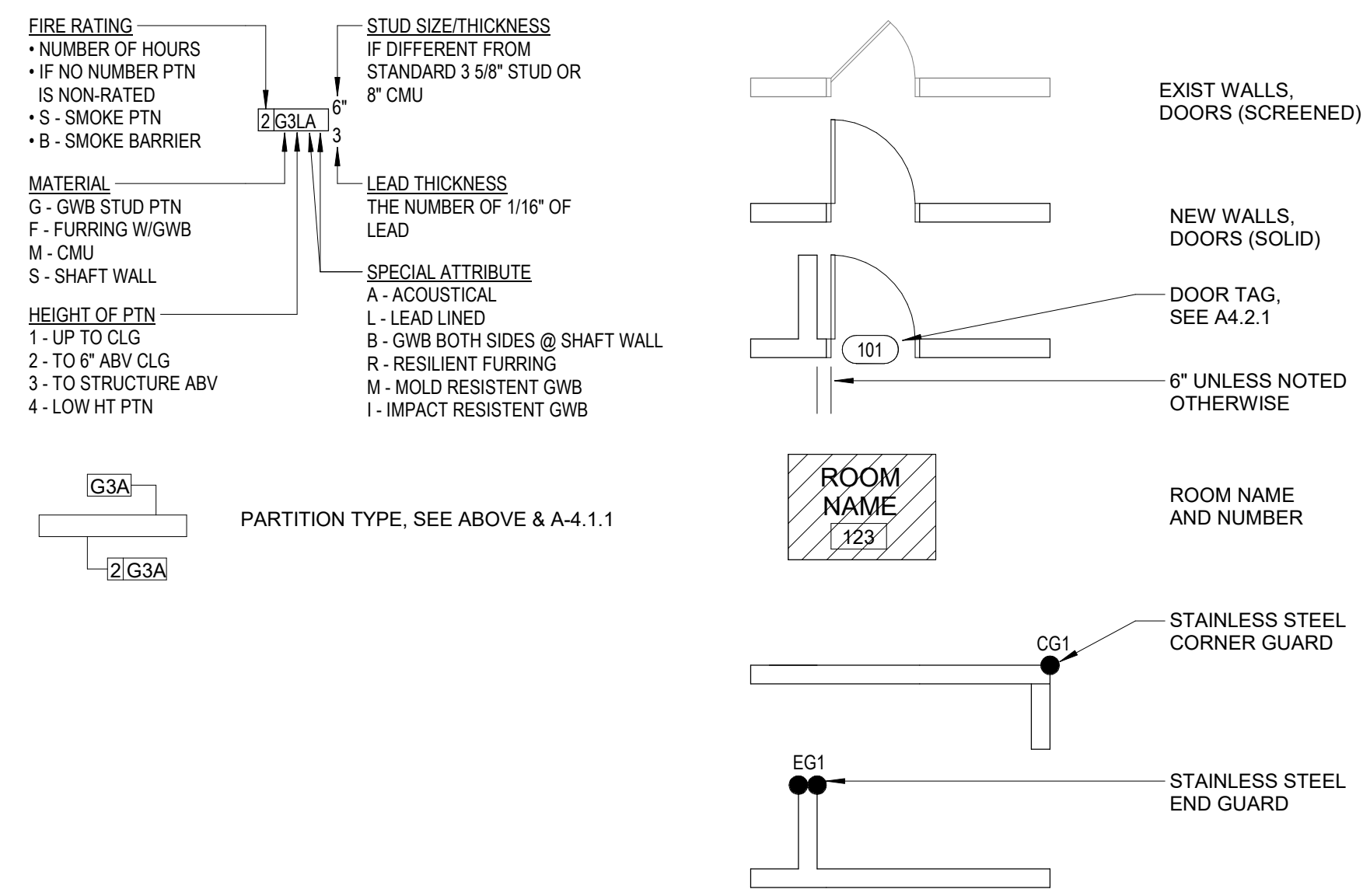
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1 LEVEL 2 FLOOR PLAN - DIMENSIONS & NOMENCLATURE SECTOR A - PHASE II
 SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. ALL WALLS TO BE G3 U.N.O.
2. ALL COLUMN FURRING TO BE 2 1/2" STUD U.N.O.
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PLAN LEGEND

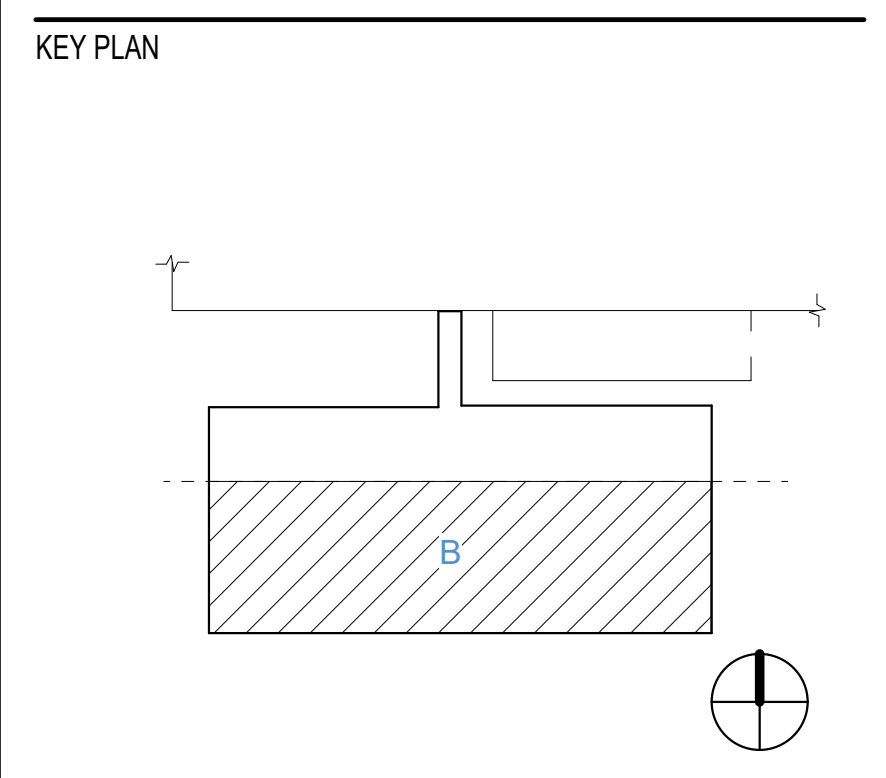
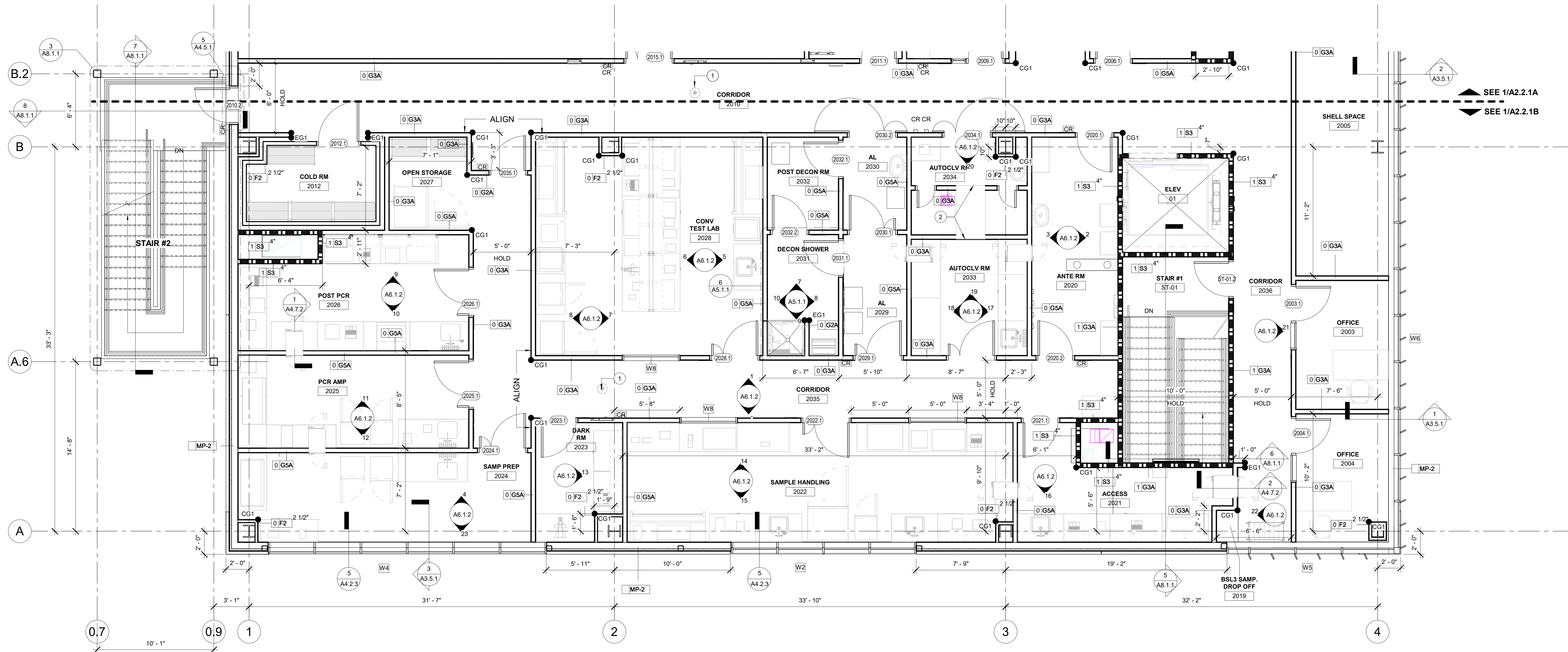


KEYNOTE LEGEND

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 3. SLIDING TRANSACTION WINDOW
- CR CARD READER
 FEC FIRE EXTINGUISHER CABINET. REFER TO SHEET A8.1.1
 NONRATED
 1 HR FIRE RATED
 COLD ROOM INSULATED WALL
 NONRATED
 1 HR FIRE RATED
 TBL1-36 CASEWORK TYPE - REFER TO SHEET A4.7.1
 #####-## EQUIPMENT TAG - REFER TO SHEET A4.8.1 - A4.8.3

UTILITY LEGEND

- CO2 CARBON DIOXIDE
 EMS EQUIPMENT MONITORING SYSTEM
 VAC VACUUM
 LN2 LIQUID NITROGEN
 N2 NITROGEN GAS
 CDA CLEAN DRY AIR
 EP EMERGENCY POWER
 PW PURIFIED WATER
 D DATA PORT
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A			05.10.2024

Southern Nevada Health District
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DRAWN BY	RM	DATE	11.08.2024
PROJECT NO.	20230523	SCALE	As indicated
DRAWING NAME	FLOOR PLAN LEVEL 2 SECTOR B - DIMENSIONS & NOMENCLATURE PHASE 1		
FLOOR/SECTION	PHASE	DRAWING NO.	

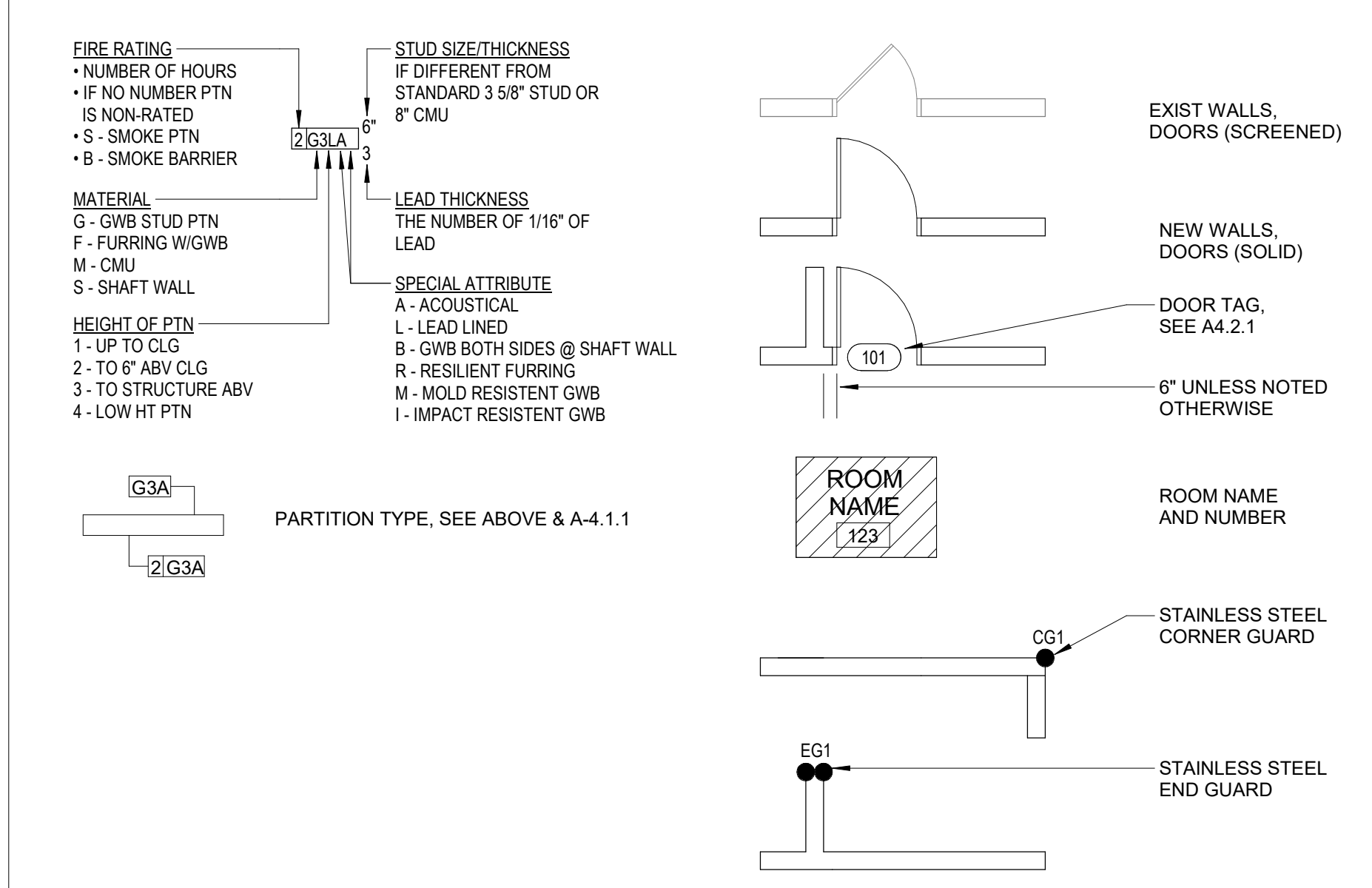
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NOT FOR CONSTRUCTION

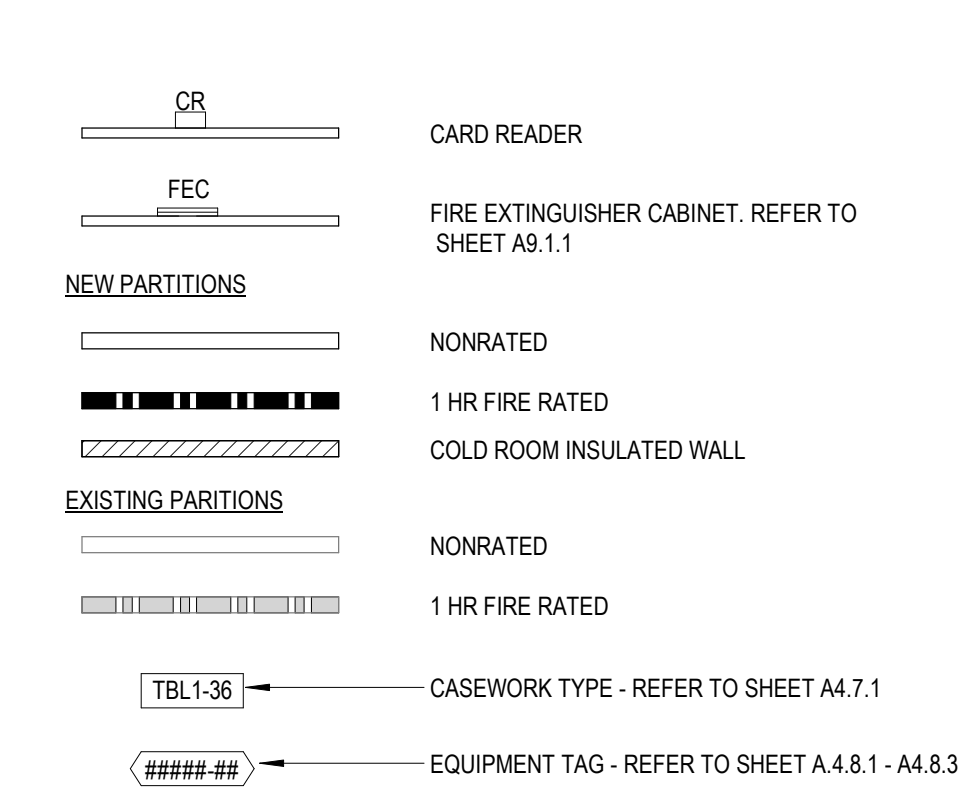
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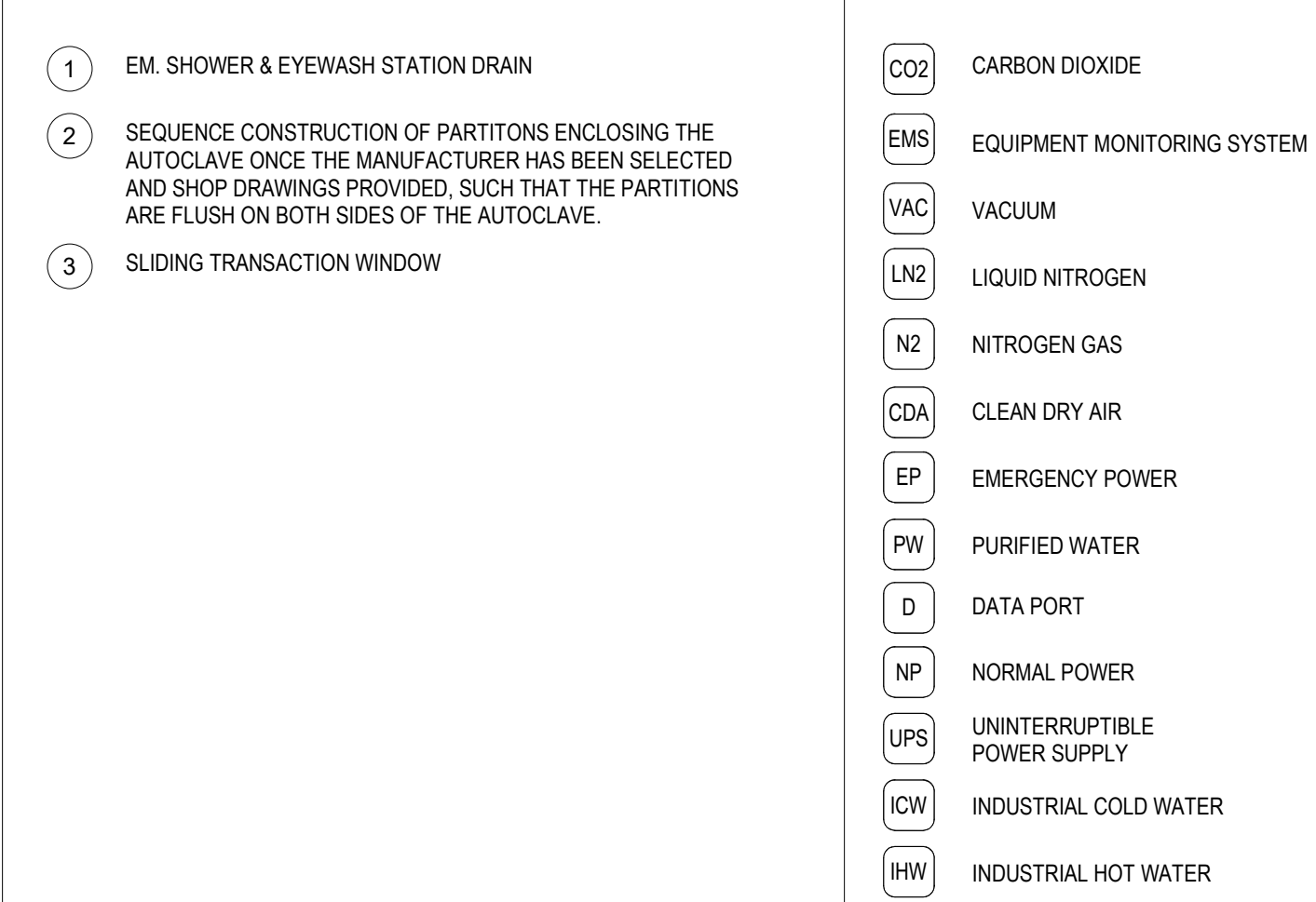
PLAN LEGEND



KEYNOTE LEGEND

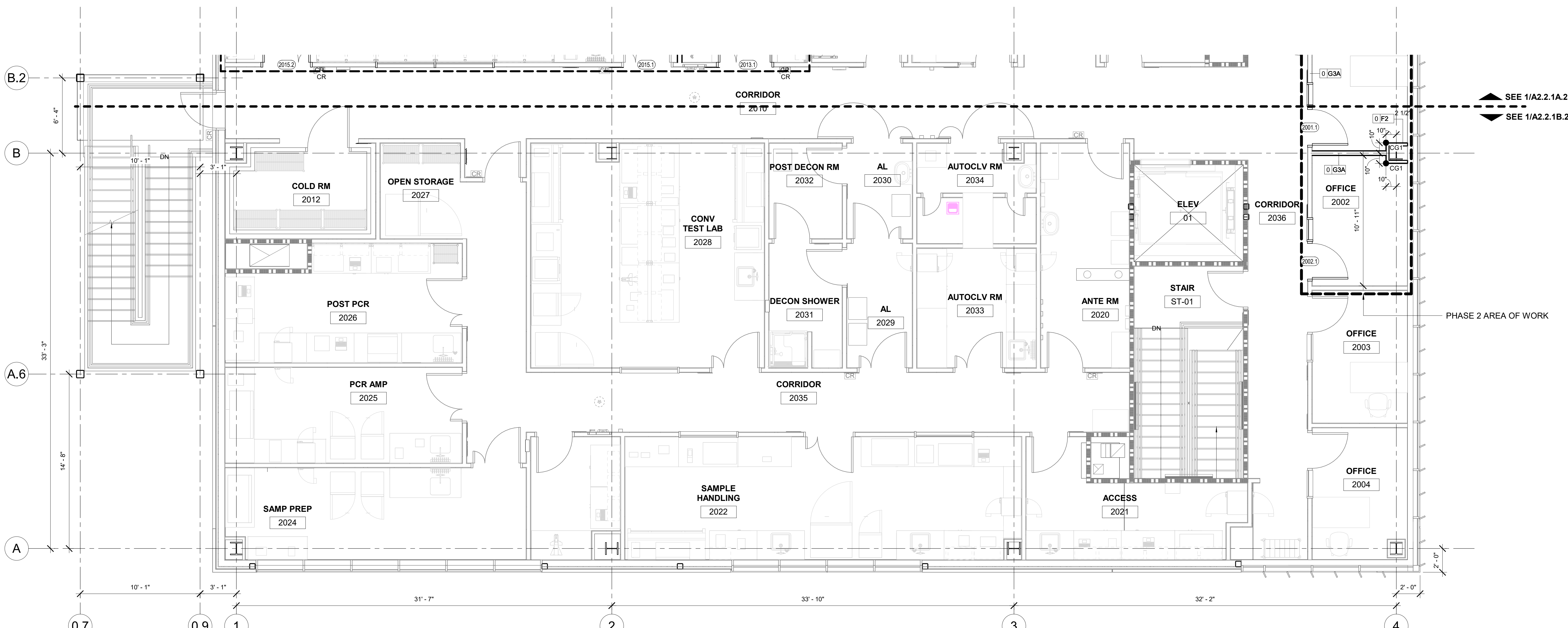


UTILITY LEGEND

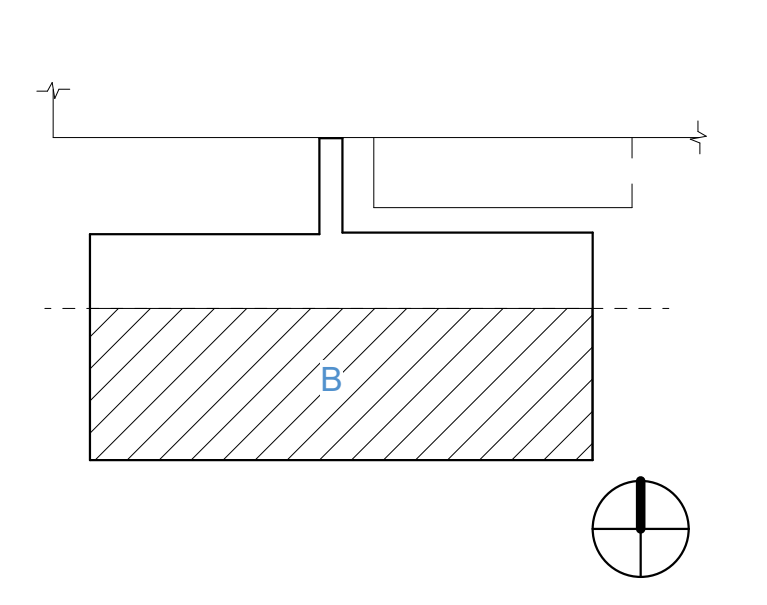


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3. SLIDING TRANSACTION WINDOW



KEY PLAN



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Southern Nevada Health District
 700 South M.L.K. Blvd
 Las Vegas, NV 89106

DRAWN BY RM **DATE** 11.08.2024

PROJECT NO. 20230523 **SCALE** As indicated

DRAWING NAME
 FLOOR PLAN LEVEL 2 SECTOR B - DIMENSIONS & NOMENCLATURE PHASE 2

FLOOR/SECTION PHASE **DRAWING NO.**

2 **CD** **A2.2.1B.2**

1 LEVEL 2 FLOOR PLAN - DIMENSIONS & NOMENCLATURE SECTOR B - PHASE II
 SCALE: 1/4" = 1'-0"

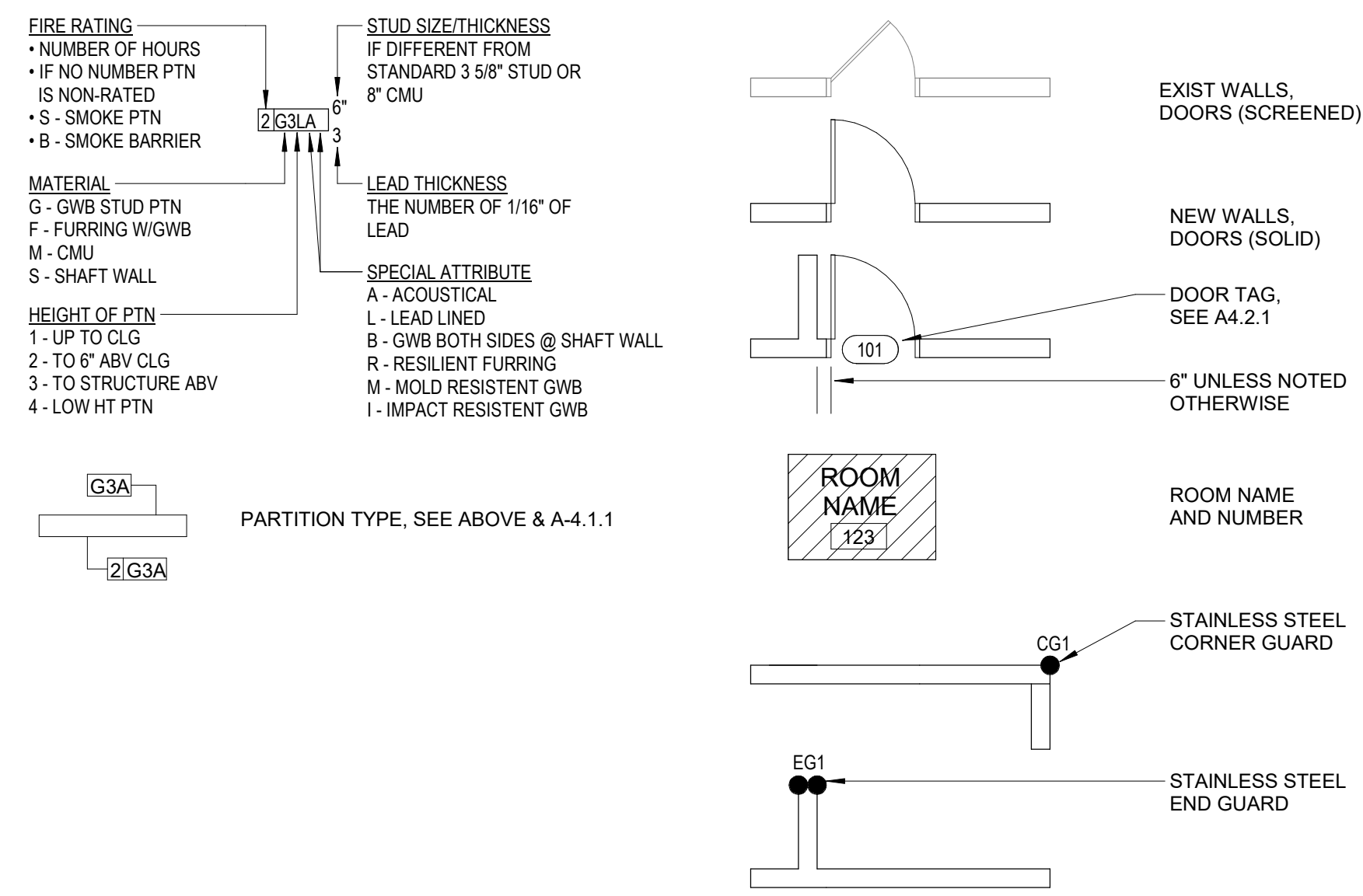
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PLAN LEGEND

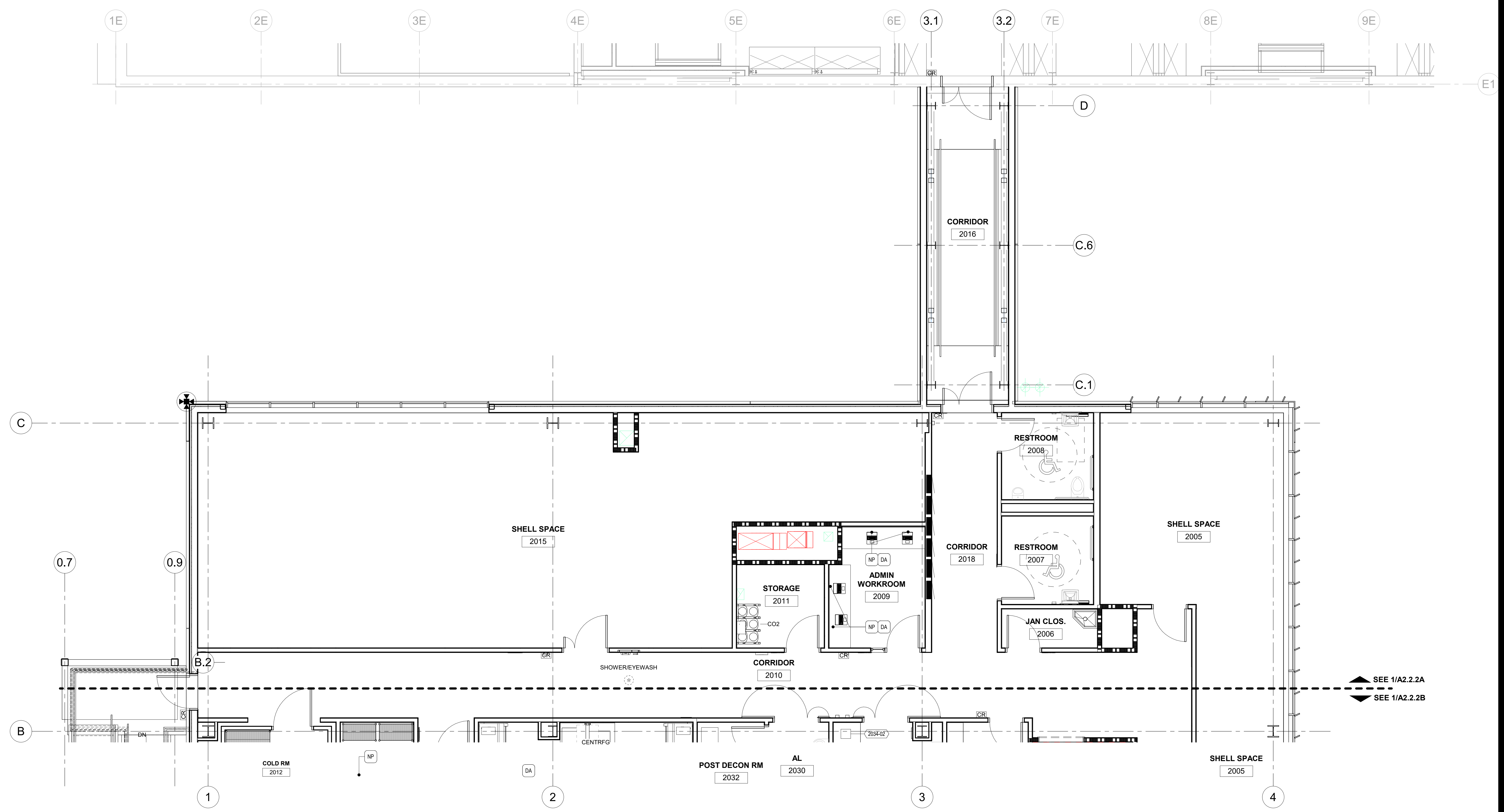


KEYNOTE LEGEND

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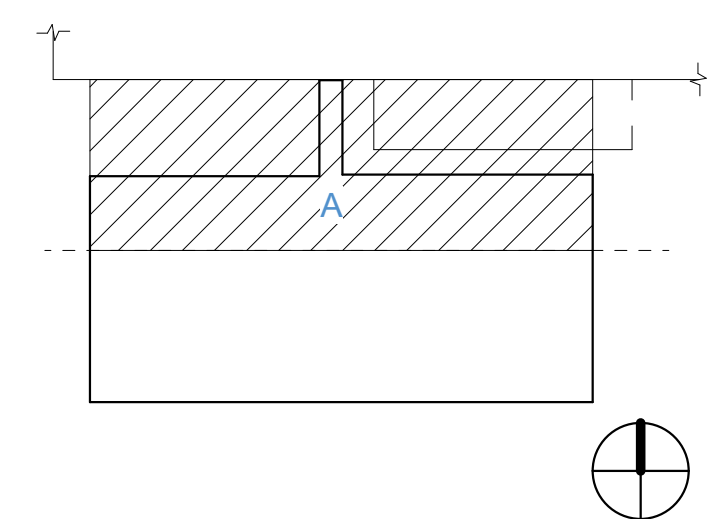
UTILITY LEGEND

- CO2 CARBON DIOXIDE
- EMS EQUIPMENT MONITORING SYSTEM
- VAC VACUUM
- LNC LIQUID NITROGEN
- N2 NITROGEN GAS
- CDA CLEAN DRY AIR
- EP EMERGENCY POWER
- PW PURIFIED WATER
- D DATA PORT
- NP NORMAL POWER
- UPS UNINTERRUPTIBLE POWER SUPPLY
- ICW INDUSTRIAL COLD WATER
- IHW INDUSTRIAL HOT WATER



1 LEVEL 2 FLOOR PLAN EQUIPMENT SECTOR A - PHASE I
 SCALE: 1/4" = 1'-0"

KEY PLAN



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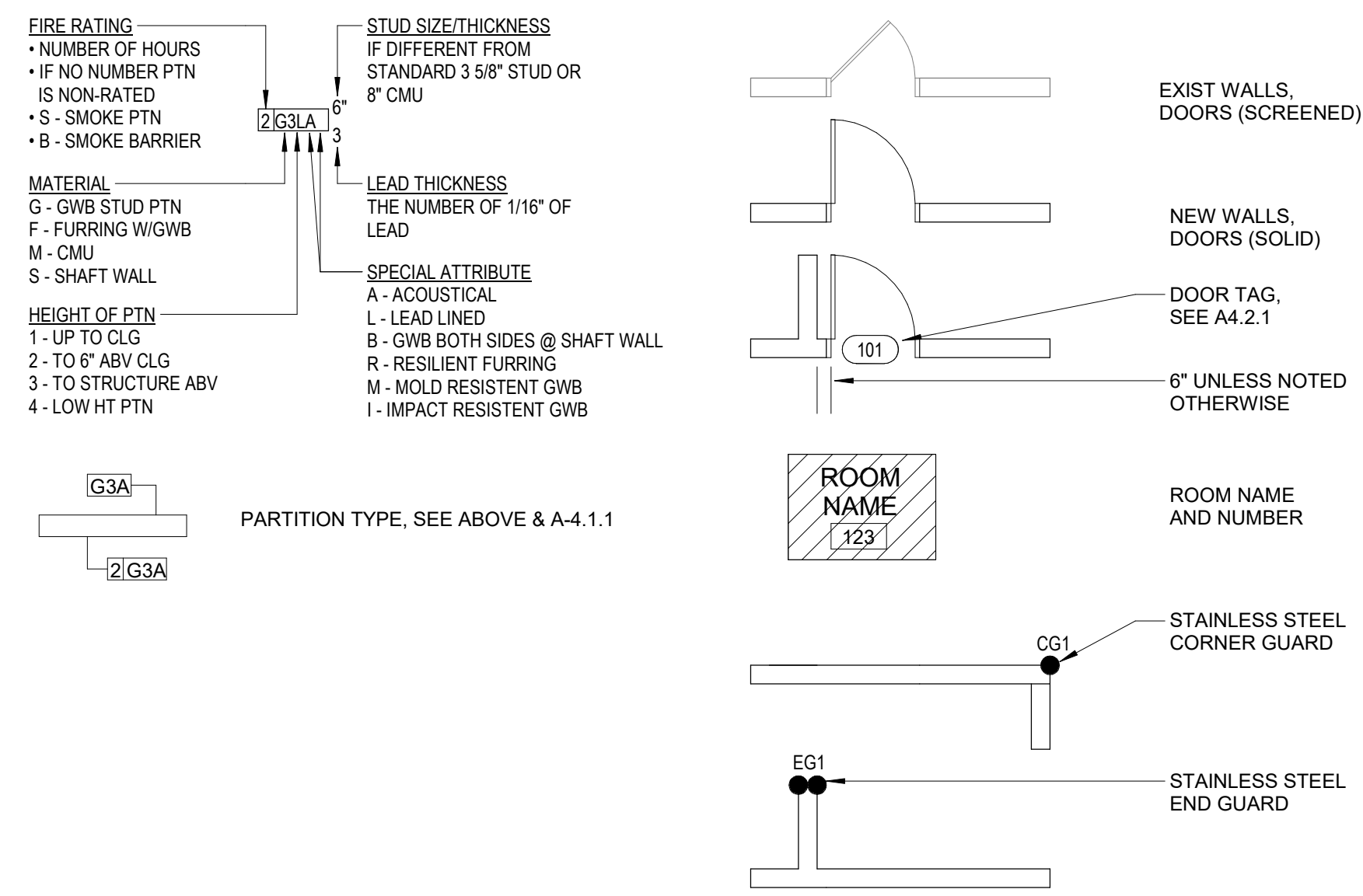
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 PROJECT NO.: 20230523 SCALE: As indicated
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 FLOOR/SECTION PHASE: DRAWING NO.:

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PLAN LEGEND

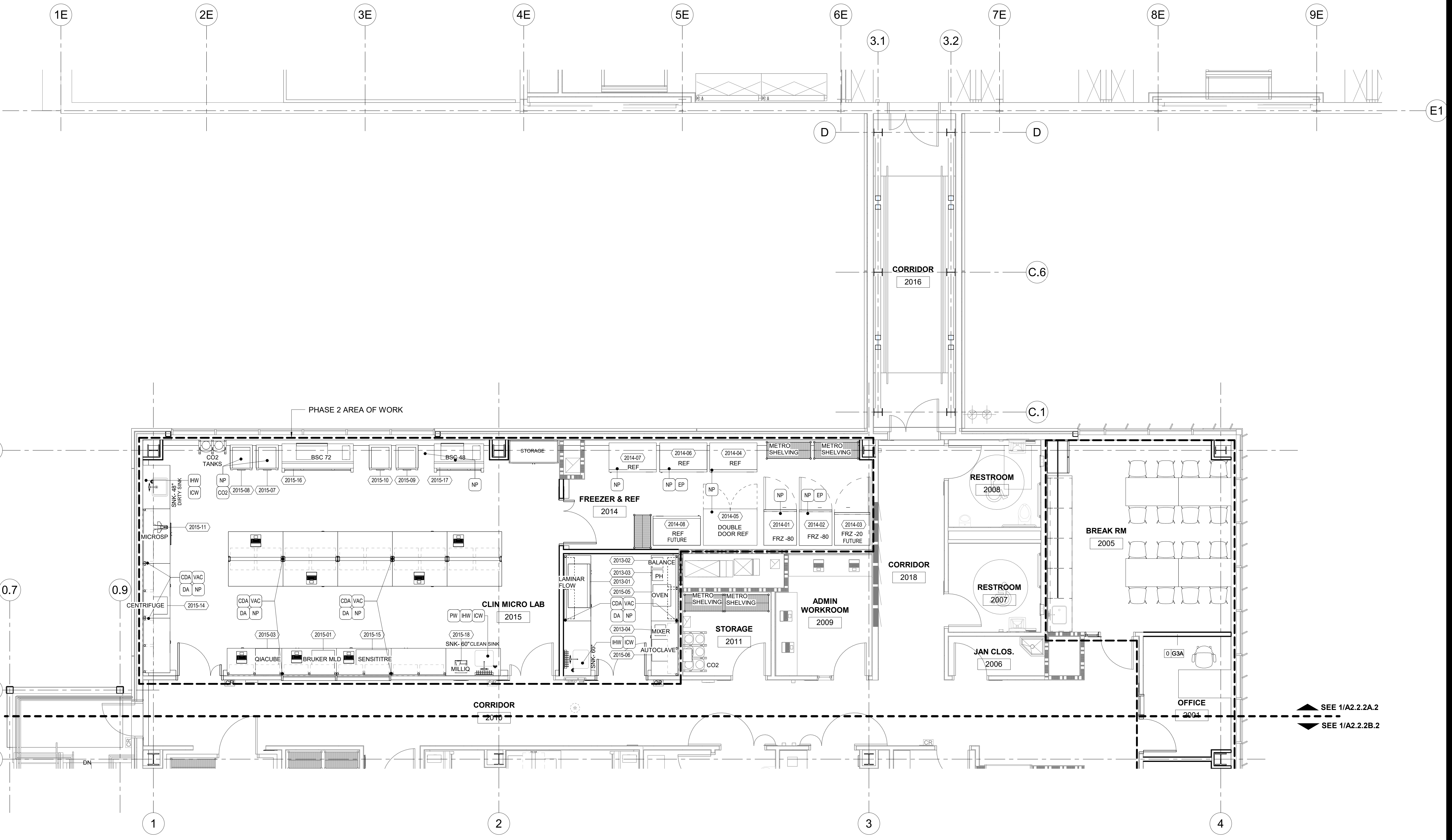


KEYNOTE LEGEND

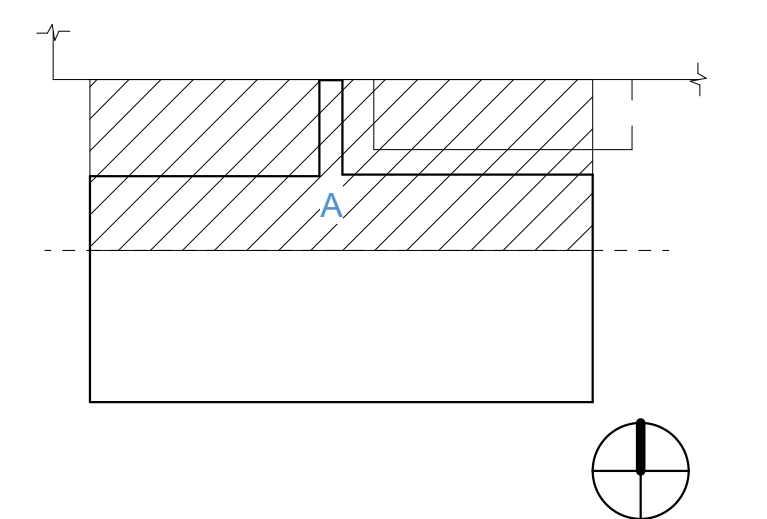
1. EM. SHOWER & EYEWASH STATION DRAIN
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- CR - CARD READER
 FEC - FIRE EXTINGUISHER CABINET. REFER TO SHEET A8.1.1
 NONRATED
 1 HR FIRE RATED
 COLD ROOM INSULATED WALL
 NONRATED
 1 HR FIRE RATED
 TBL1-36 - CASEWORK TYPE - REFER TO SHEET A4.7.1
 ##### - EQUIPMENT TAG - REFER TO SHEET A4.8.1 - A4.8.3

UTILITY LEGEND

- CO2 - CARBON DIOXIDE
 EMS - EQUIPMENT MONITORING SYSTEM
 VAC - VACUUM
 LN2 - LIQUID NITROGEN
 N2 - NITROGEN GAS
 CDA - CLEAN DRY AIR
 EP - EMERGENCY POWER
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 D - DATA PORT
 NP - NORMAL POWER
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KEY PLAN



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Southern Nevada Health District
 700 South M.L.K. Blvd
 Las Vegas, NV 89106

DRAWN BY _____ RM _____ DATE 11.08.2024

PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME
 FLOOR PLAN LEVEL 2 SECTOR A - EQUIPMENT & CASEWORK PHASE 2

FLOOR/SECTION PHASE DRAWING NO.

2 CD A2.2.2A.2

NOT FOR CONSTRUCTION

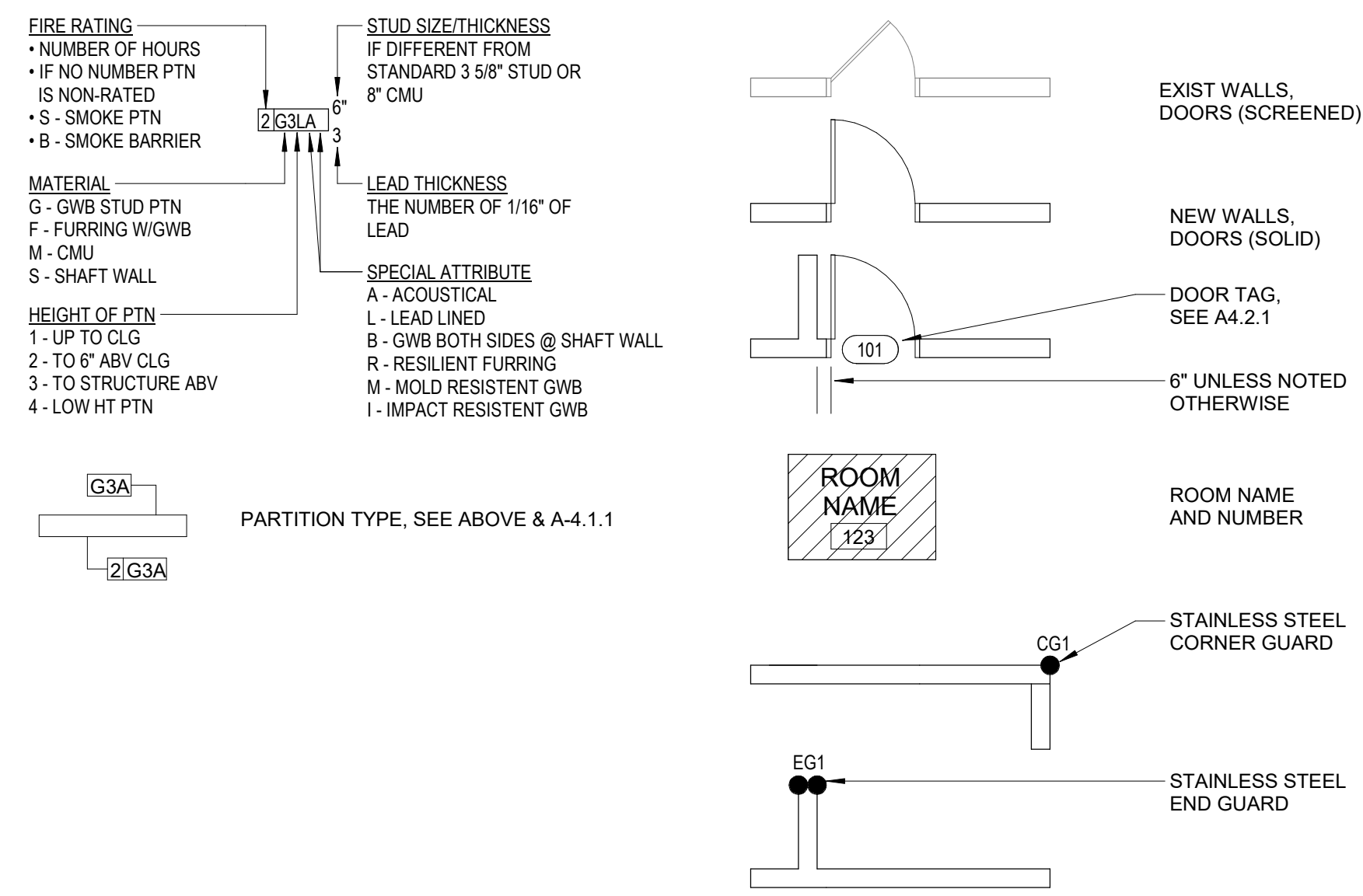
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1 LEVEL 2 FLOOR PLAN EQUIPMENT SECTOR A - PHASE II
 SCALE: 1/8" = 1'-0"

GENERAL NOTES

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PLAN LEGEND

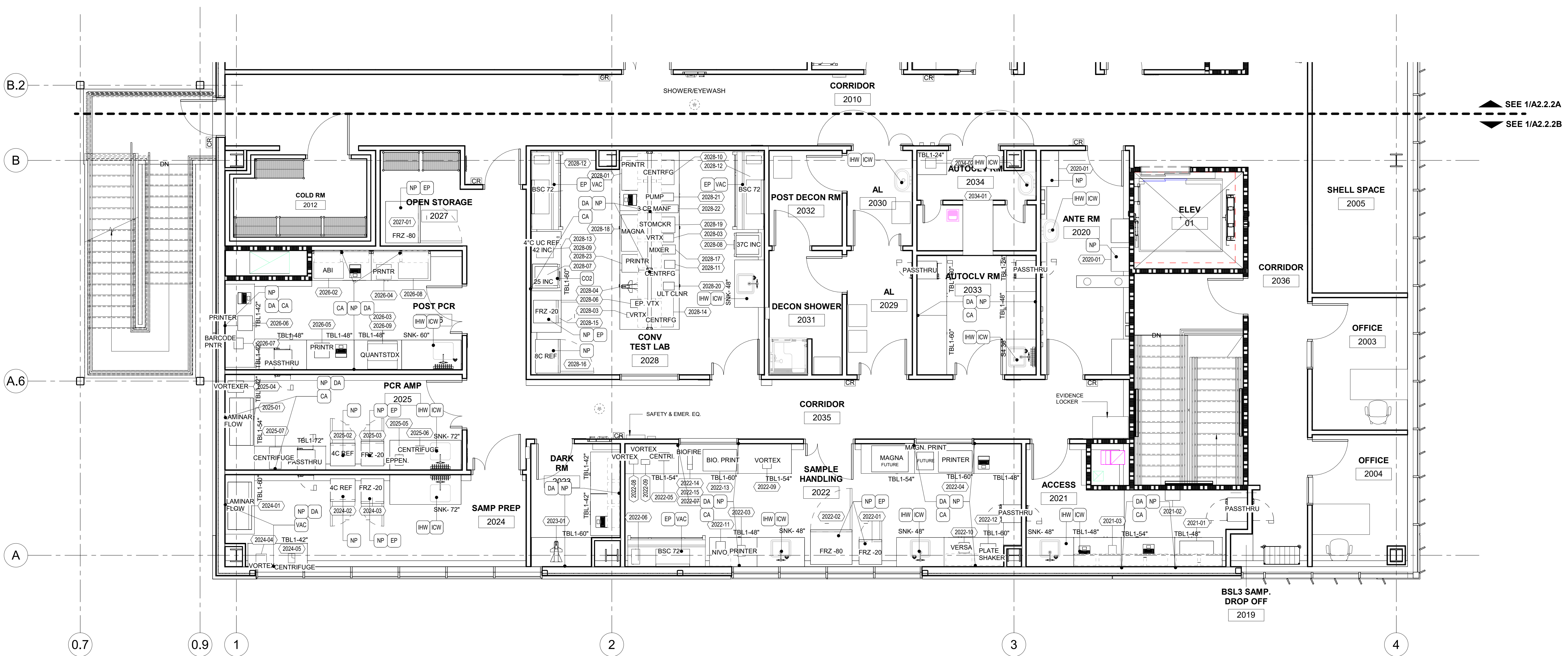


KEYNOTE LEGEND

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 NONRATED
 1 HR FIRE RATED
 COLD ROOM INSULATED WALL
 NONRATED
 1 HR FIRE RATED
 TBL1-36 CASEWORK TYPE - REFER TO SHEET A4.7.1
 #####-## EQUIPMENT TAG - REFER TO SHEET A4.8.1 - A4.8.3

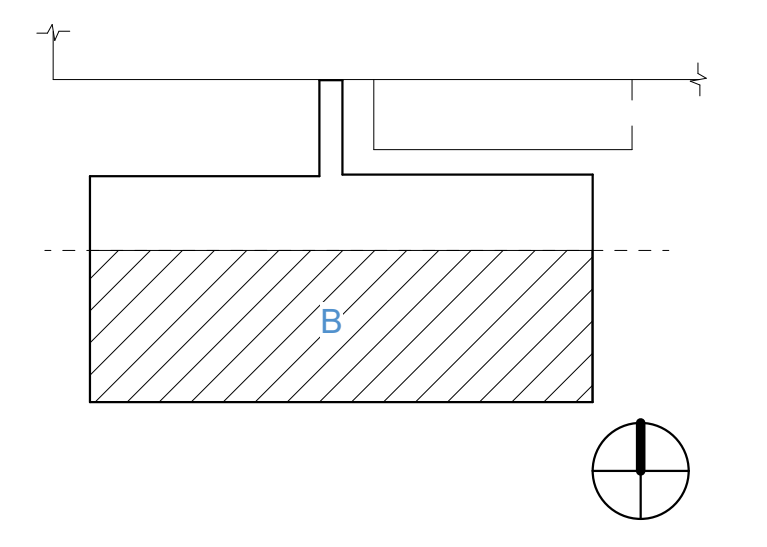
UTILITY LEGEND

- CO2 CARBON DIOXIDE
 EMS EQUIPMENT MONITORING SYSTEM
 VAC VACUUM
 LN2 LIQUID NITROGEN
 N2 NITROGEN GAS
 CDA CLEAN DRY AIR
 EP EMERGENCY POWER
 PW PURIFIED WATER
 D DATA PORT
 NP NORMAL POWER
 UPS UNINTERRUPTIBLE POWER SUPPLY
 ICW INDUSTRIAL COLD WATER
 IHW INDUSTRIAL HOT WATER



SEE 1/A2.2.2A
 SEE 1/A2.2.2B

KEY PLAN



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FLOOR PLAN LEVEL 2 SECTOR B - EQUIPMENT & CASEWORK PHASE 1

FLOOR/SECTION PHASE DRAWING NO.

2 CD A2.2.2B

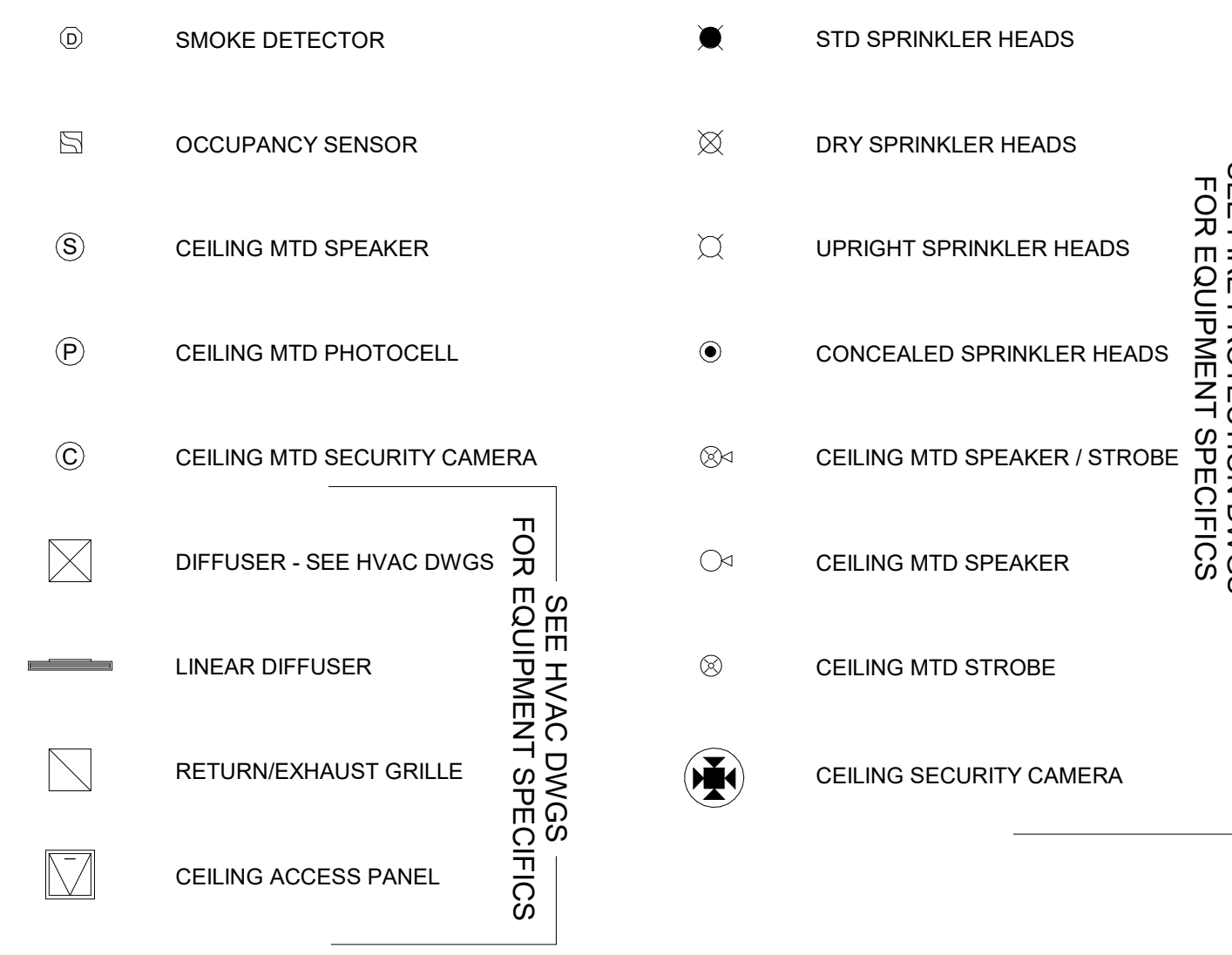
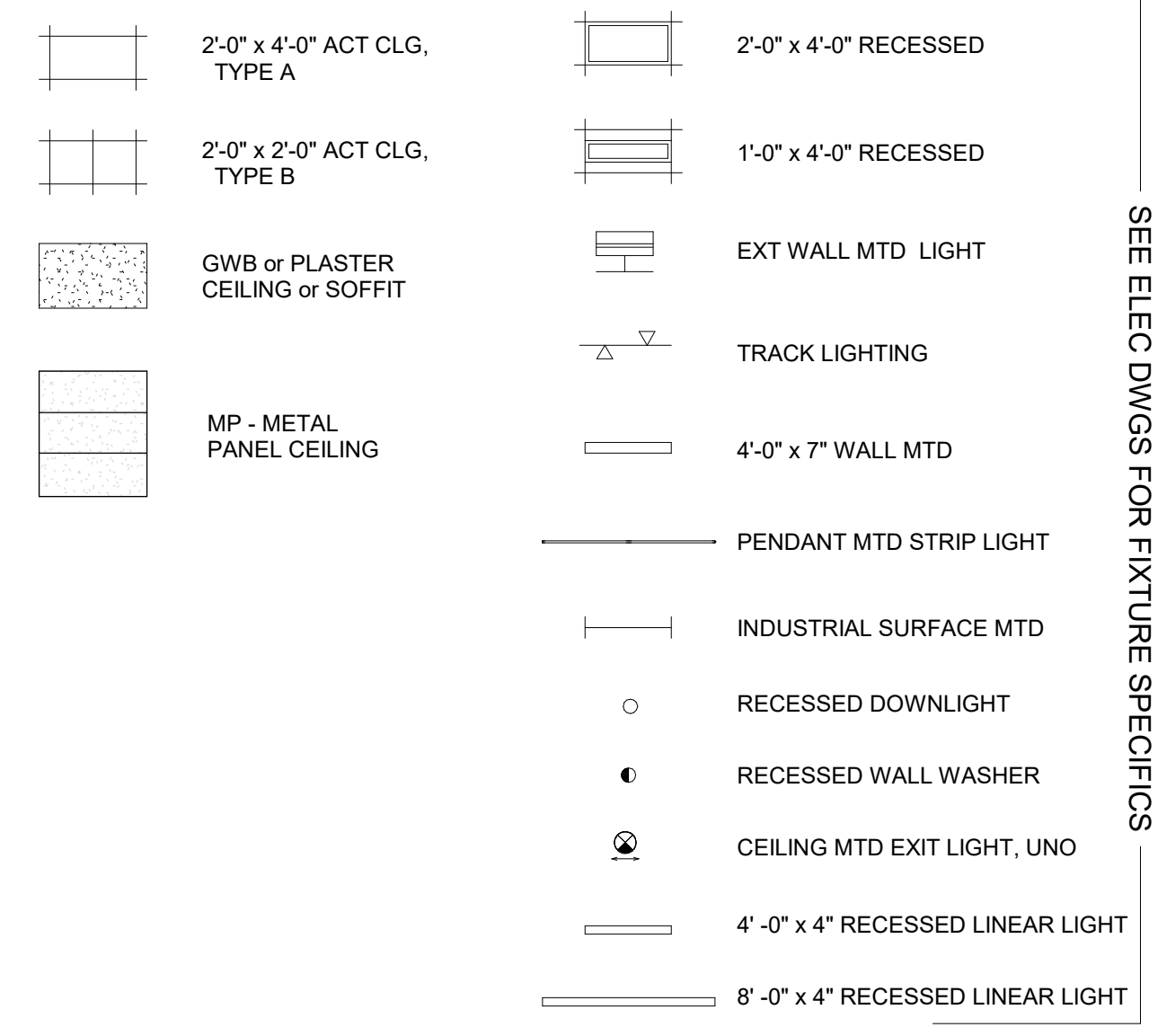
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1 LEVEL 2 FLOOR PLAN EQUIPMENT SECTOR B - PHASE 1
 SCALE: 1/4" = 1'-0"

CEILING TYPE LEGEND

- ALL CEILINGS ACOUSTICAL CEILING TILE AT 10'-0" UNO.
- ALL OTHER CEILING LABELED AS FOLLOWS:
 - A1 8'-6"
- ALL CEILING GRIDS SHALL BE CENTERED ON ROOM/SPACE UNO.
- ALL FIXTR'S, DIFFUSERS, GRILLS, SPRINKLER HEADS, SPEAKERS OR OTHER DEVICES SHALL BE LOCATED IN THE CENTER OF A CEILING TILE OR THE CENTER OF A PANEL INSCRIBED ON A TILE, UNO.
- CENTER ALL INDUSTRIAL PENDANT FIXTURES IN ROOM UNO.
- COORDINATE PROJECTOR LOCATIONS WITH FINAL PROJECTOR MANUFACTURER.



SEE ELEC DWGS FOR FIXTURE SPECIFICS

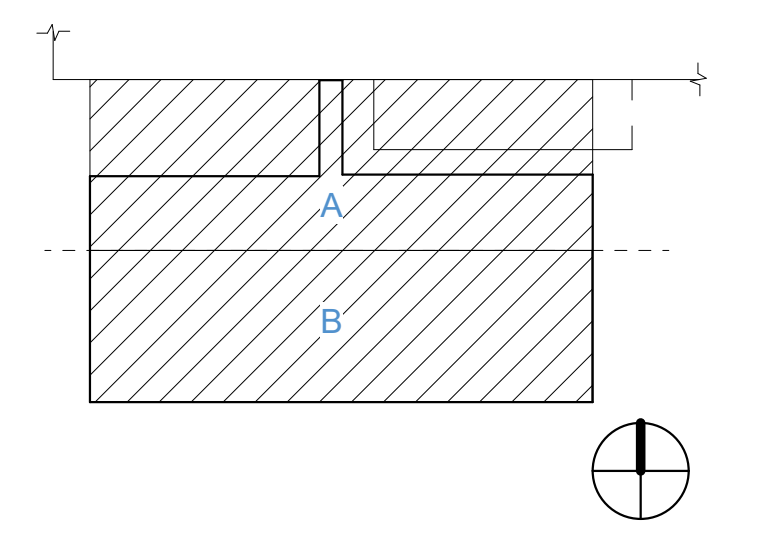
SEE HVAC DWGS FOR EQUIPMENT SPECIFICS

SEE FIRE PROTECTION DWGS FOR EQUIPMENT SPECIFICS



1 LEVEL 1 REFERENCE PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



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Las Vegas, NV 89106

DRAWN BY _____ RM DATE 11.08.2024

PROJECT NO. 20230523 SCALE 1/8" = 1'-0"
DRAWING NAME

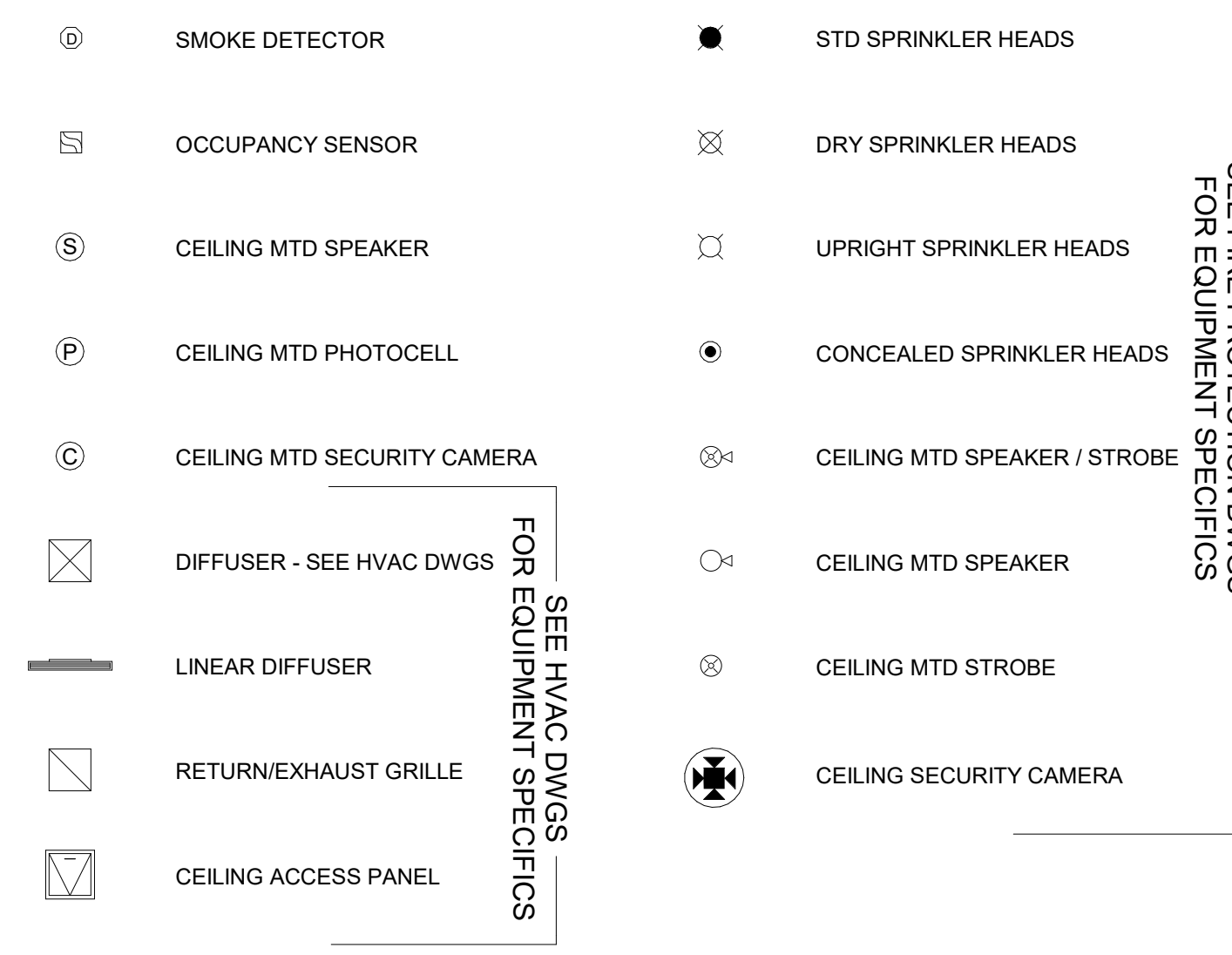
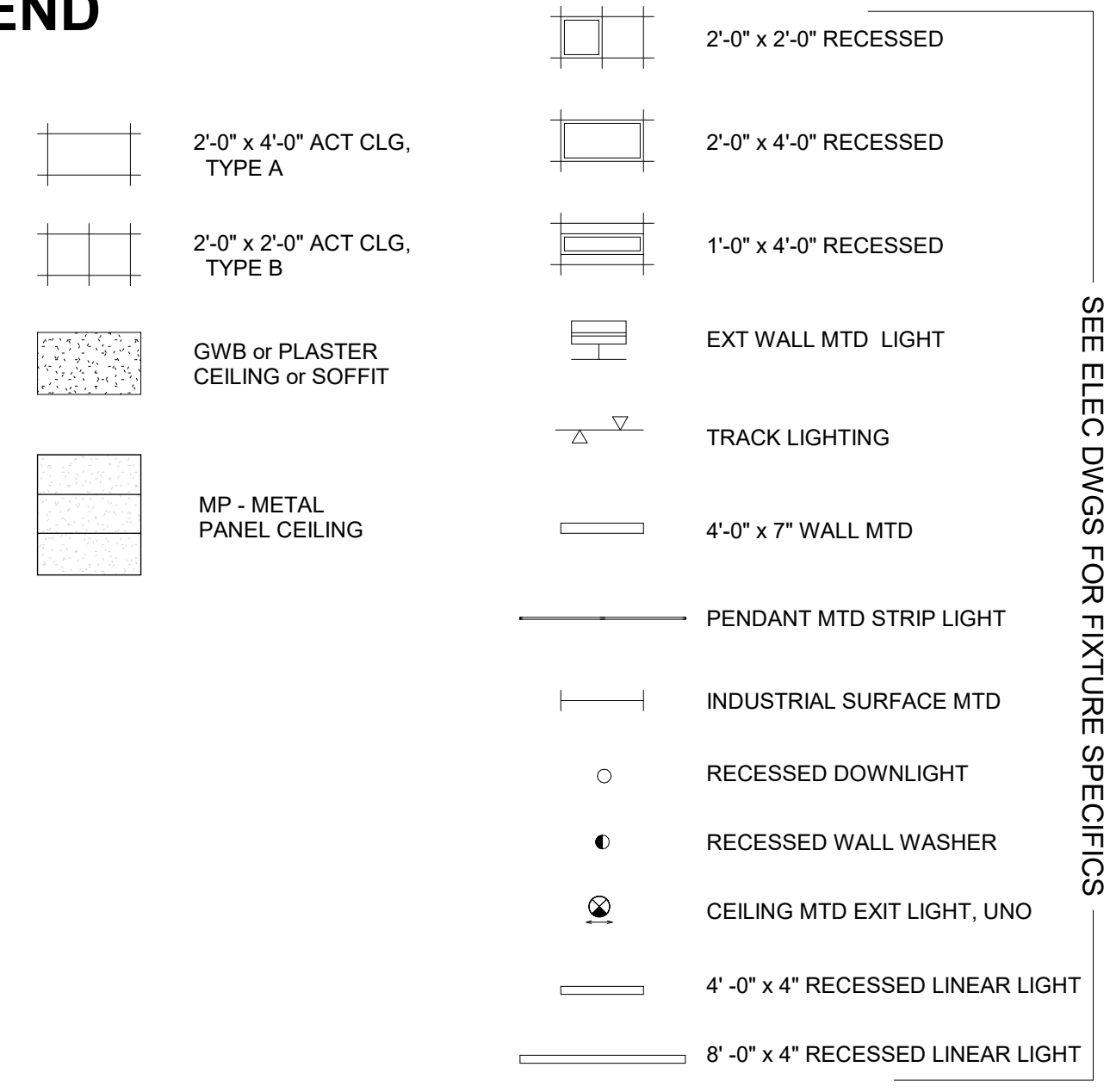
LEVEL 1 REFERENCE PLAN - PHASE I REFLECTED CEILING PLAN

FLOOR/SECTION PHASE DRAWING NO.
1 CD ACP2.1.0

NOT FOR CONSTRUCTION

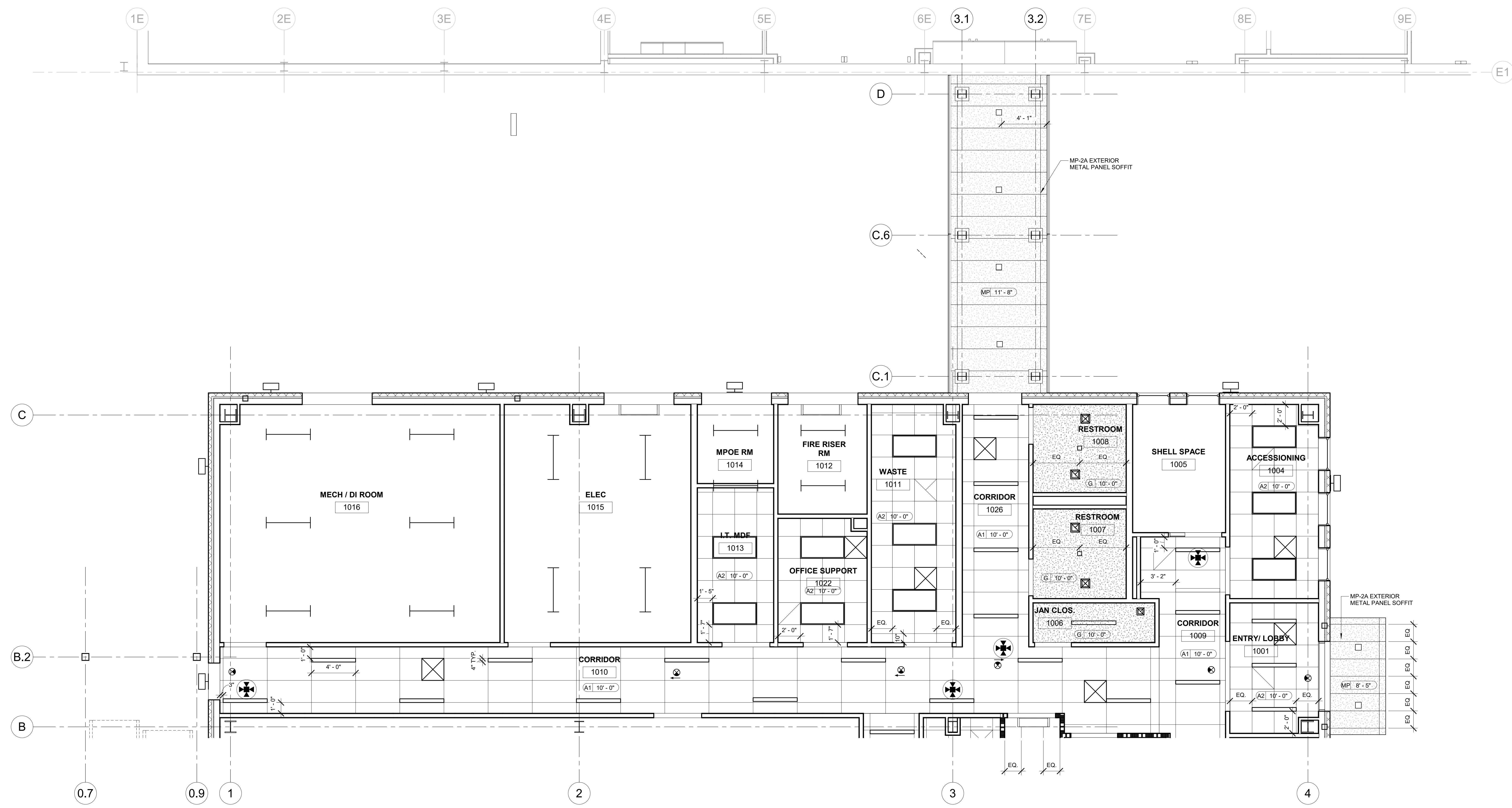
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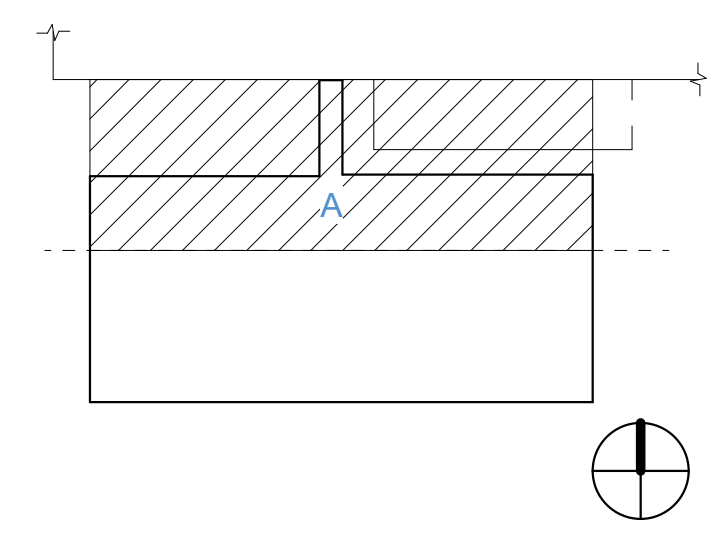
SEE FIRE PROTECTION DWGS FOR EQUIPMENT SPECIFICS

SEE HVAC DWGS FOR EQUIPMENT SPECIFICS



1 LEVEL 1 REFLECTED CEILING PLAN - SECTOR A
SCALE: 1/4" = 1'-0"

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E		ISSUED FOR GC BIDDING	11.08.2024
D		ISSUED FOR OWNER'S REVIEW	10.11.2024
C		DESIGN DEVELOPMENT	09.26.2024
B		50% DD SET	05.24.2024
A			05.10.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY: RM DATE: 11.08.2024
PROJECT NO.: 20230523 SCALE: As indicated

DRAWING NAME: RCP LEVEL 1 SECTOR A - PHASE I

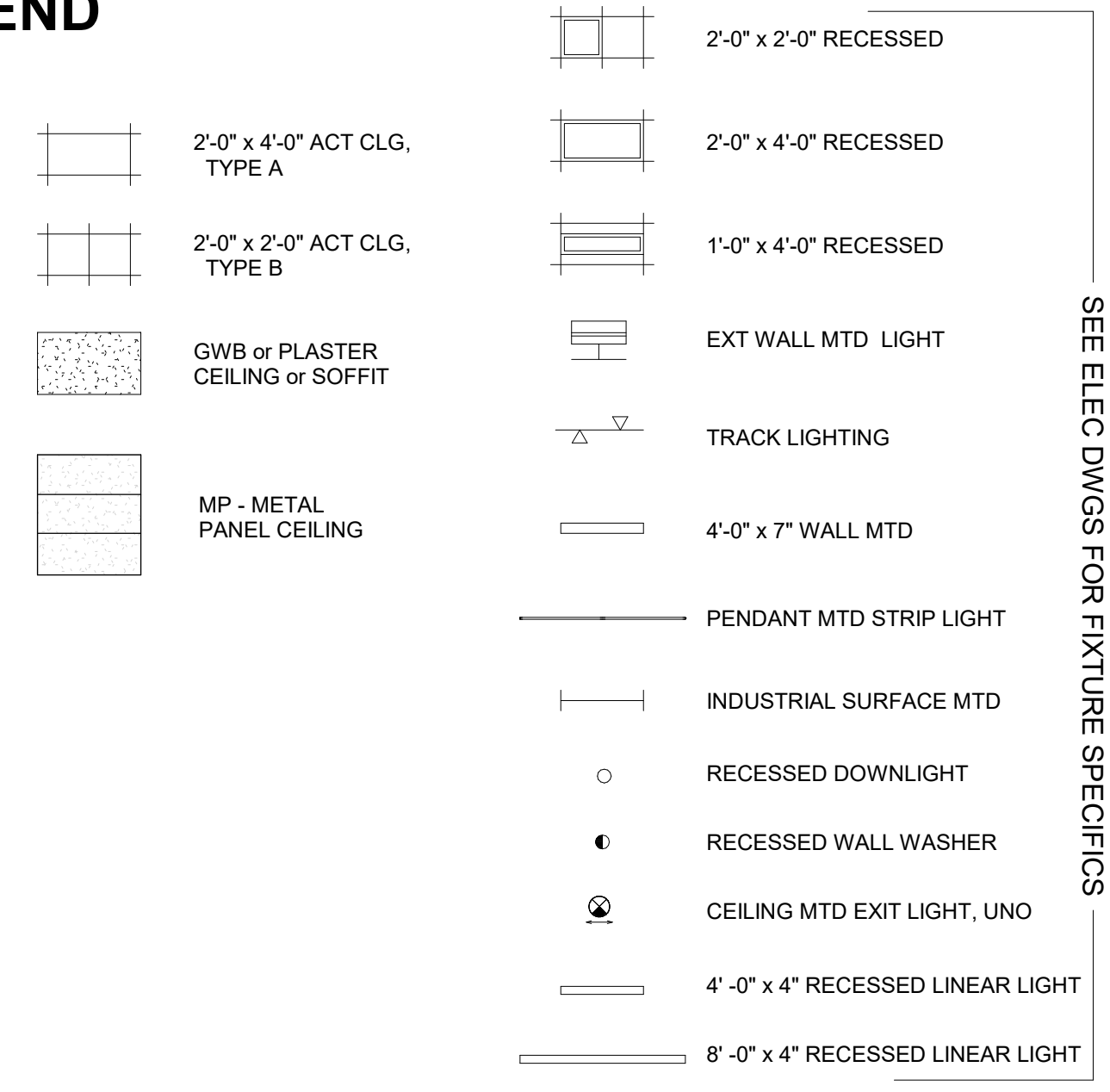
FLOOR/SECTION PHASE DRAWING NO.
1 CD ACP2.1.A

NOT FOR CONSTRUCTION

11/8/2024 11:44:53 AM Autodesk Docs://20230523 - South Nevada Health District MLK BLDG - 3 LAB/20230523_A22_CENTRAL.rvt

CEILING TYPE LEGEND

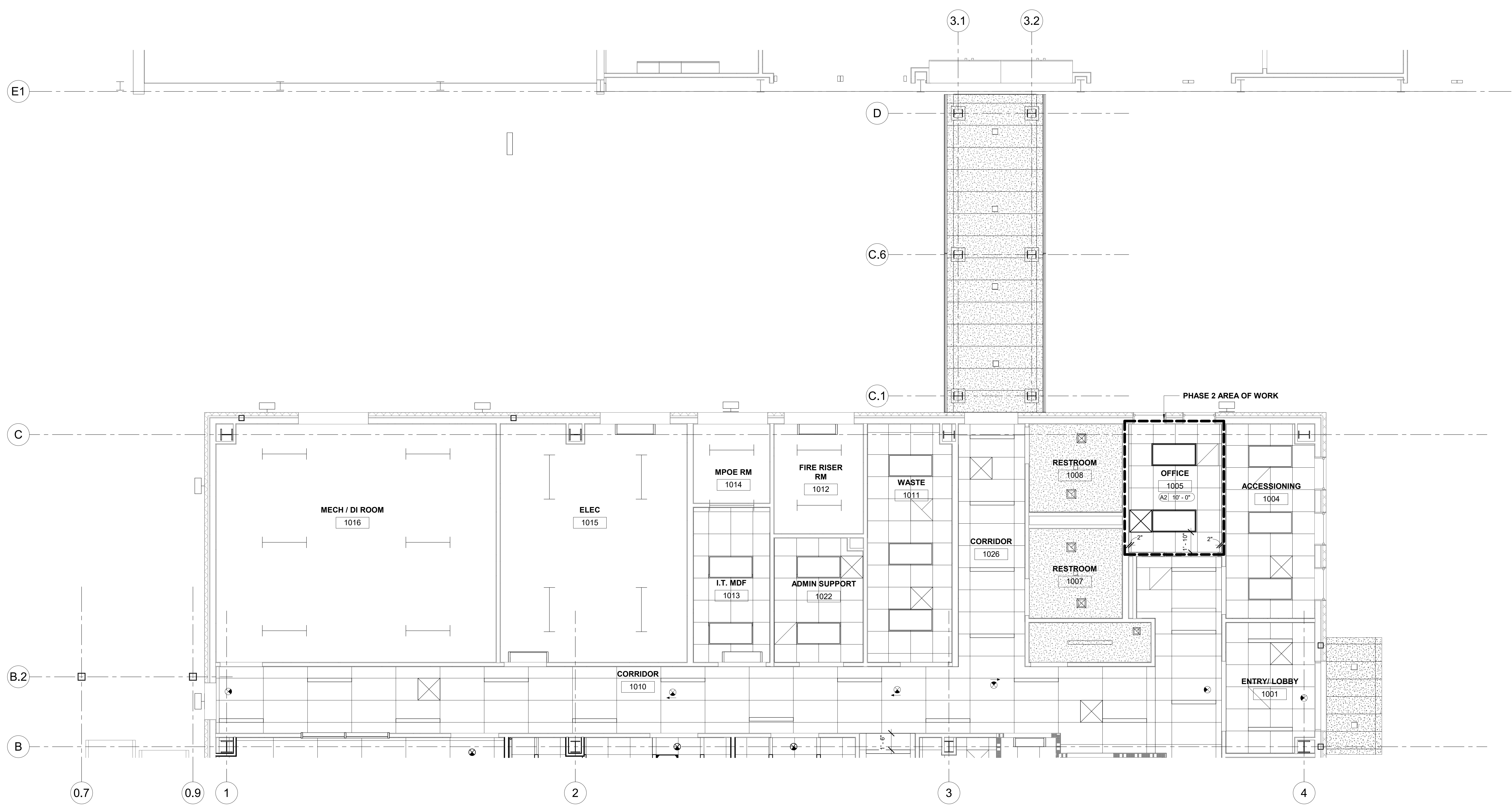
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- CENTER ALL INDUSTRIAL PENDANT FIXTURES IN ROOM UNO.
- COORDINATE PROJECTOR LOCATIONS WITH FINAL PROJECTOR MANUFACTURER.



- SMOKE DETECTOR
- OCCUPANCY SENSOR
- CEILING MTD SPEAKER
- CEILING MTD PHOTOCELL
- CEILING MTD SECURITY CAMERA
- DIFFUSER - SEE HVAC DWGS FOR EQUIPMENT SPECIFICS
- LINEAR DIFFUSER
- RETURN/EXHAUST GRILLE
- CEILING ACCESS PANEL
- STD SPRINKLER HEADS
- DRY SPRINKLER HEADS
- UPRIGHT SPRINKLER HEADS
- CONCEALED SPRINKLER HEADS
- CEILING MTD SPEAKER / STROBE
- CEILING MTD SPEAKER
- CEILING MTD STROBE
- CEILING SECURITY CAMERA

SEE FIRE PROTECTION DWGS FOR EQUIPMENT SPECIFICS

SEE HVAC DWGS FOR EQUIPMENT SPECIFICS



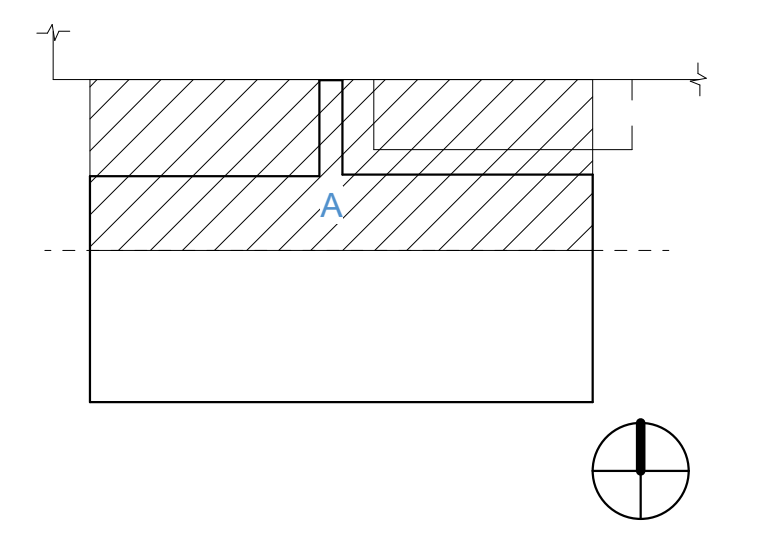
1 LEVEL 1 REFLECTED CEILING PLAN - SECTOR A PHASE 2
SCALE: 1/4" = 1'-0"

401 West A Street, Suite 320
San Diego, CA 92101
Tel: 949-417-7550

CONSULTANTS



KEY PLAN



PRINCIPAL
DAVID KEITH
RESEARCH PLANNER
STEPH VARGAS
ARCHITECT
ROBERT MCCONNELL
ARCHITECTURAL DESIGNER
RICARDO MOLINA

REVISIONS

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Southern Nevada Health District
700 South M.L.K. Blvd
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DRAWN BY: Author DATE: 11.08.2024

PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME

RCP LEVEL 1 SECTOR A - PHASE 2

FLOOR/SECTION PHASE DRAWING NO.

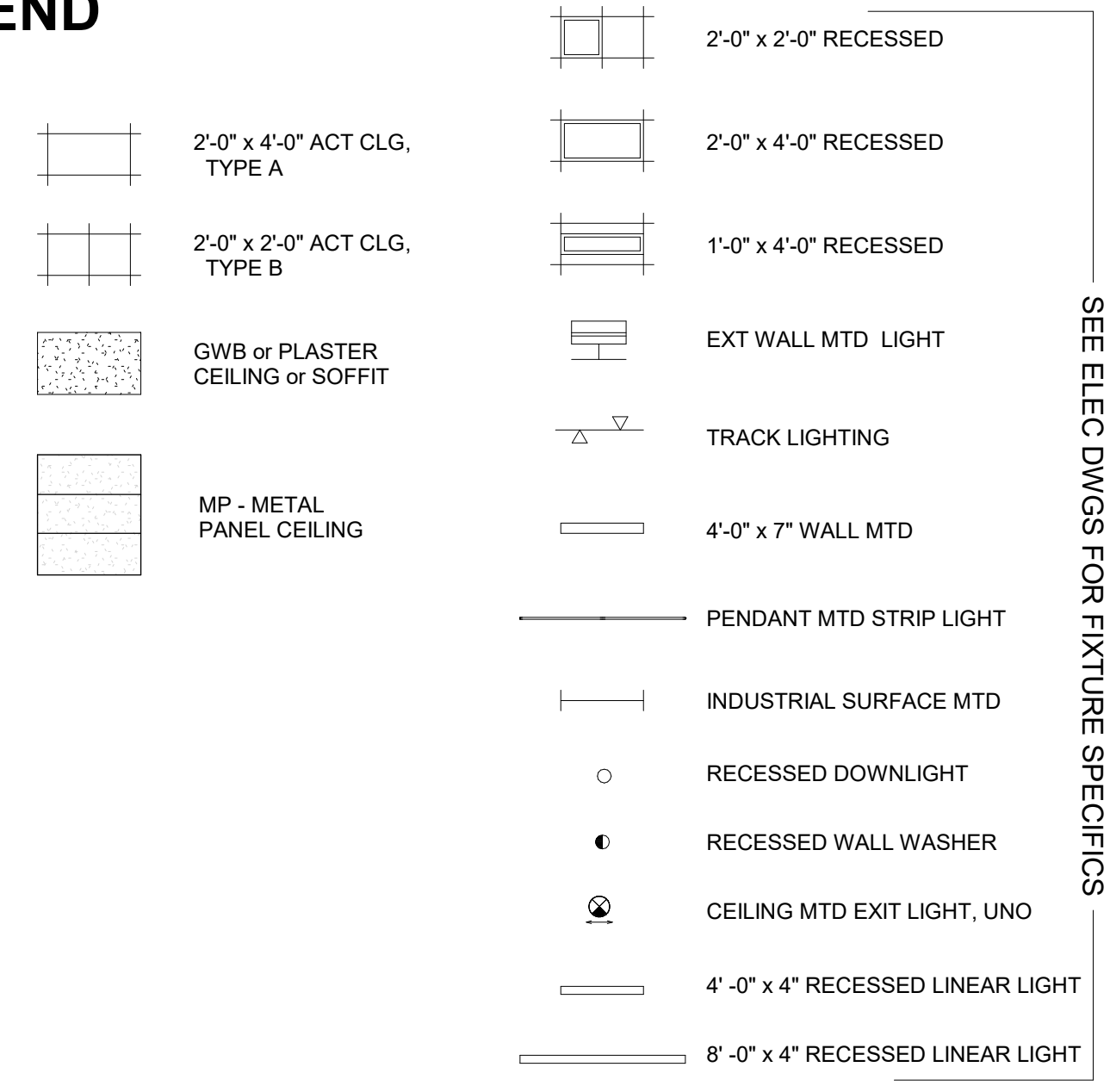
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CD ACP2.1.A.2

11/8/2024 11:44:55 AM Autodesk Docs://20230523 - South Nevada Health District MLK BLDG - 3 LAB/20230523_A22_CENTRAL.rvt

CEILING TYPE LEGEND

- ALL CEILINGS ACOUSTICAL CEILING TILE AT 10'-0" UNO.
- ALL OTHER CEILING LABELED AS FOLLOWS:
 - A1 8'-6"
 - CEILING TYPE
 - CEILING HEIGHT
 - A ACOUSTICAL CEILING TILE
 - EP EXISTING PLASTER, TO BE PTD
 - G GWB, PAINTED
 - NC NO CEILING
 - P PLASTER
 - W WOOD
- ALL CEILING GRIDS SHALL BE CENTERED ON ROOM/SPACE UNO.
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- COORDINATE PROJECTOR LOCATIONS WITH FINAL PROJECTOR MANUFACTURER.

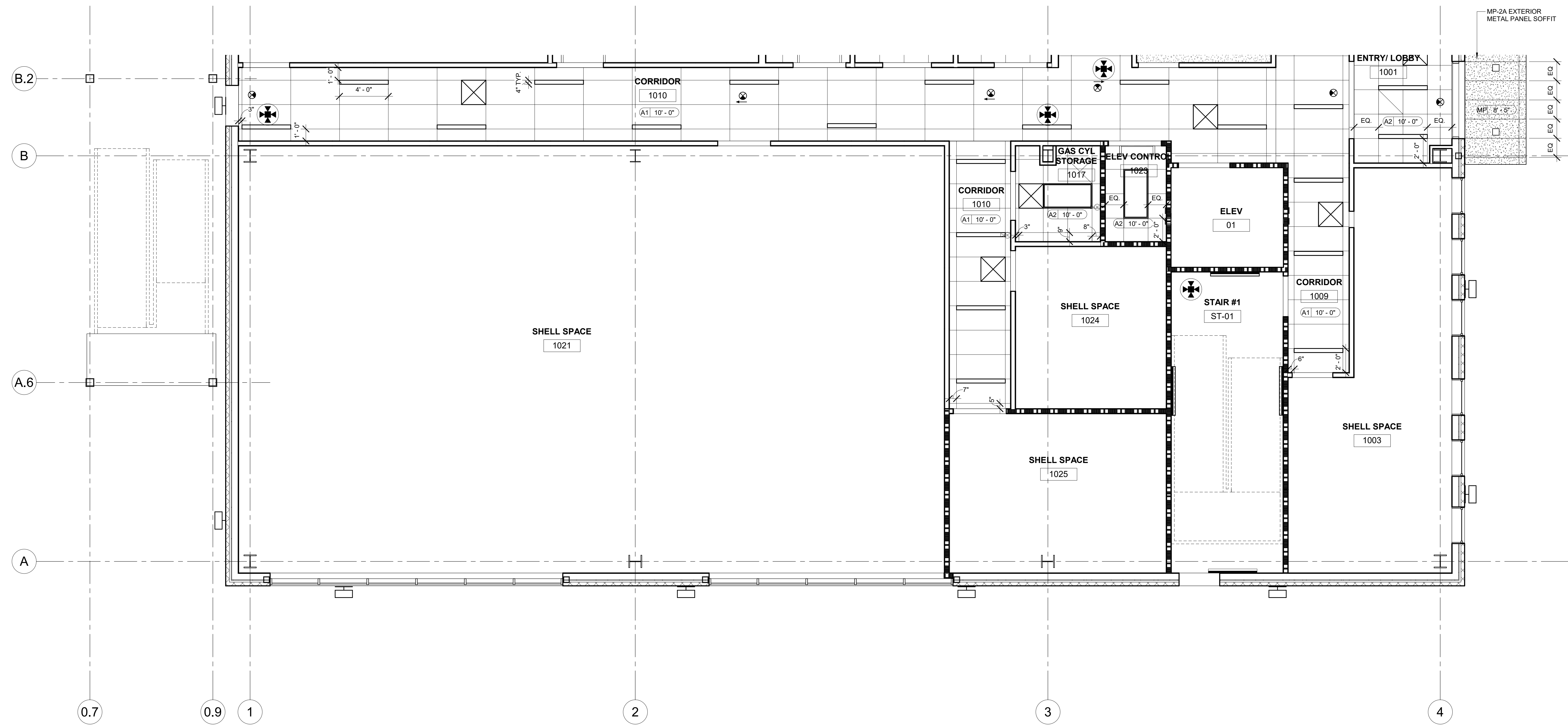


- SMOKE DETECTOR
- OCCUPANCY SENSOR
- CEILING MTD SPEAKER
- CEILING MTD PHOTOCELL
- CEILING MTD SECURITY CAMERA
- DIFFUSER - SEE HVAC DWGS FOR EQUIPMENT SPECIFICS
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- RETURN/EXHAUST GRILLE
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- STD SPRINKLER HEADS
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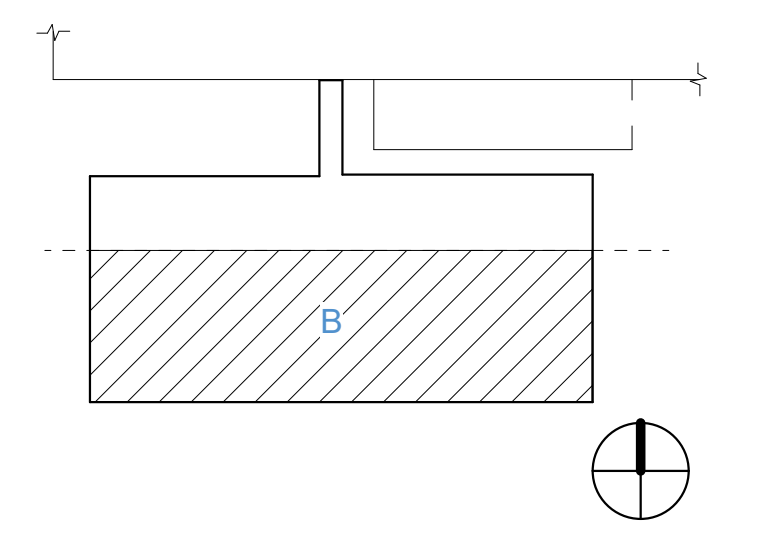
SEE FIRE PROTECTION DWGS FOR EQUIPMENT SPECIFICS

SEE HVAC DWGS FOR EQUIPMENT SPECIFICS

SEE ELEC DWGS FOR FIXTURE SPECIFICS



KEY PLAN



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RICARDO MOLINA

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DRAWN BY _____ RM DATE 11.08.2024

PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME RCP LEVEL 1 SECTOR B - PHASE I

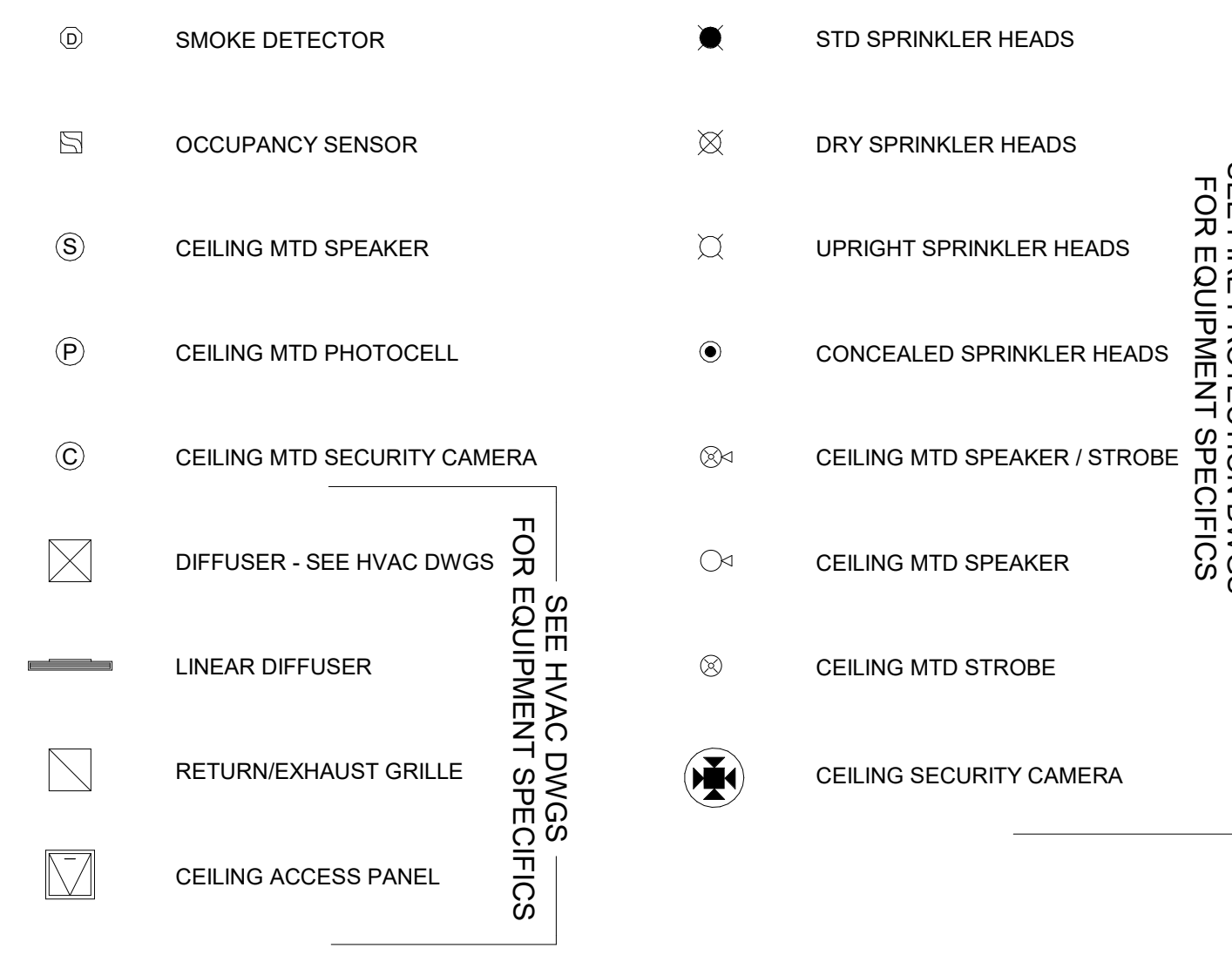
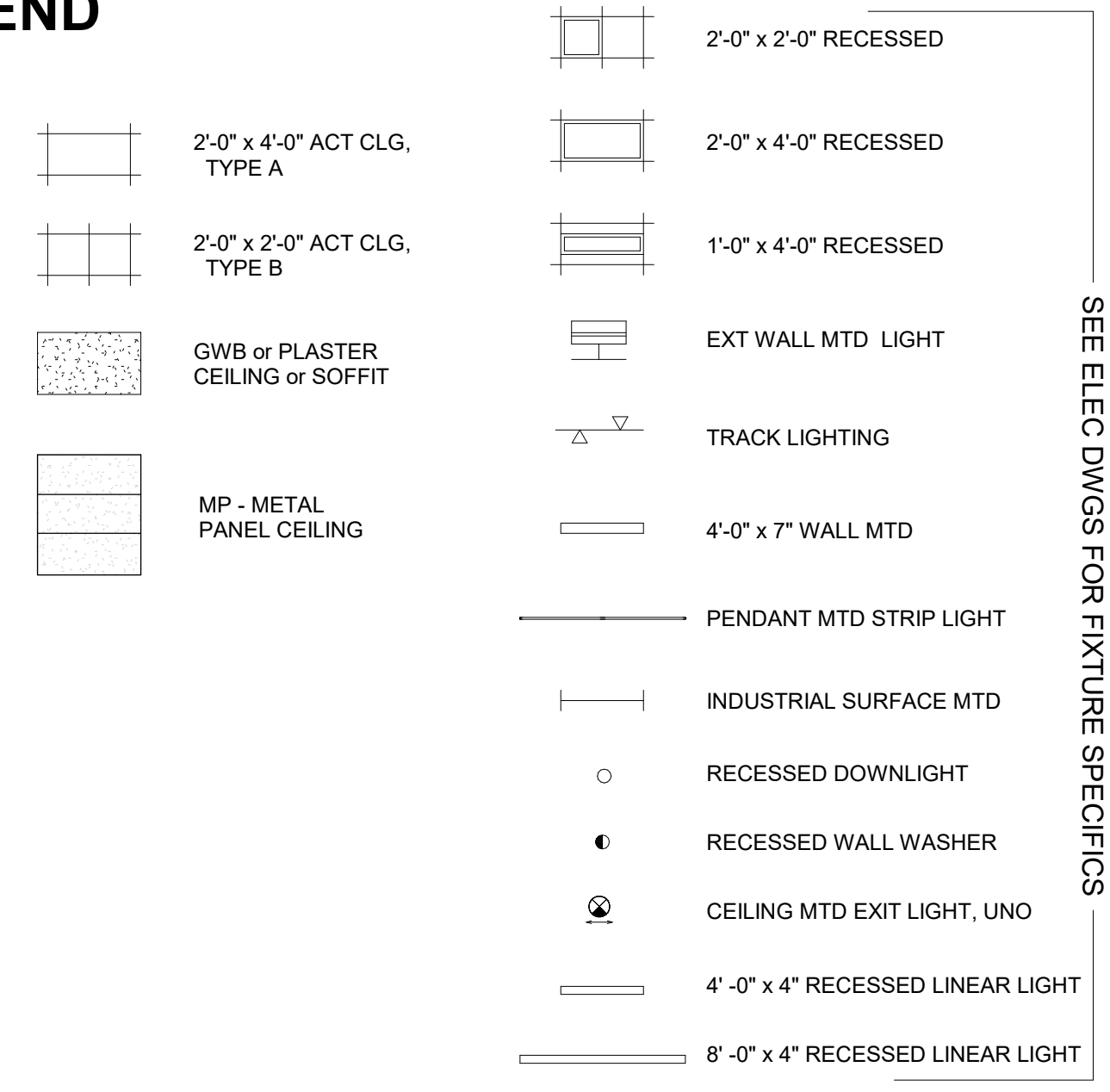
FLOOR/SECTION PHASE DRAWING NO.

1 CD ACP2.1.B

NOT FOR CONSTRUCTION

CEILING TYPE LEGEND

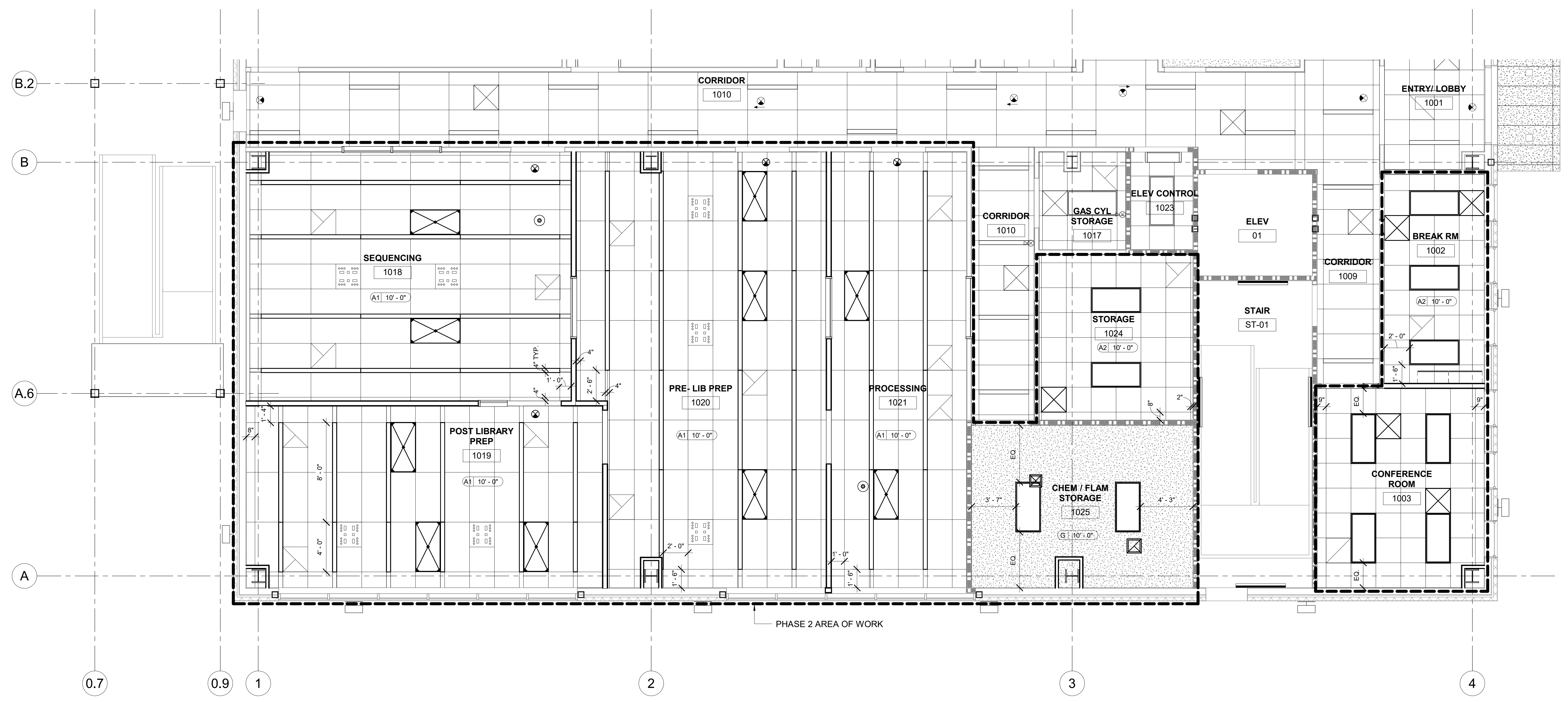
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SEE ELEC DWGS FOR FIXTURE SPECIFICS

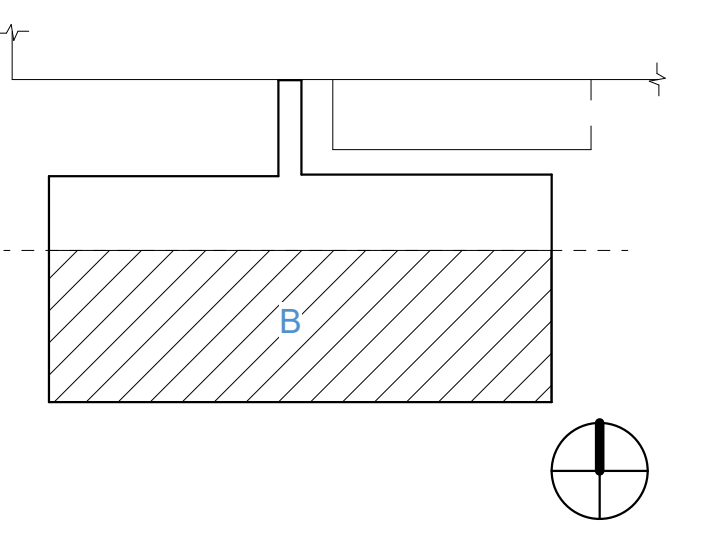
SEE HVAC DWGS FOR EQUIPMENT SPECIFICS

SEE FIRE PROTECTION DWGS FOR EQUIPMENT SPECIFICS



1 LEVEL 1 REFLECTED CEILING PLAN - SECTOR B PHASE 2
SCALE: 1/4" = 1'-0"

KEY PLAN



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FLOOR/SECTION PHASE DRAWING NO.

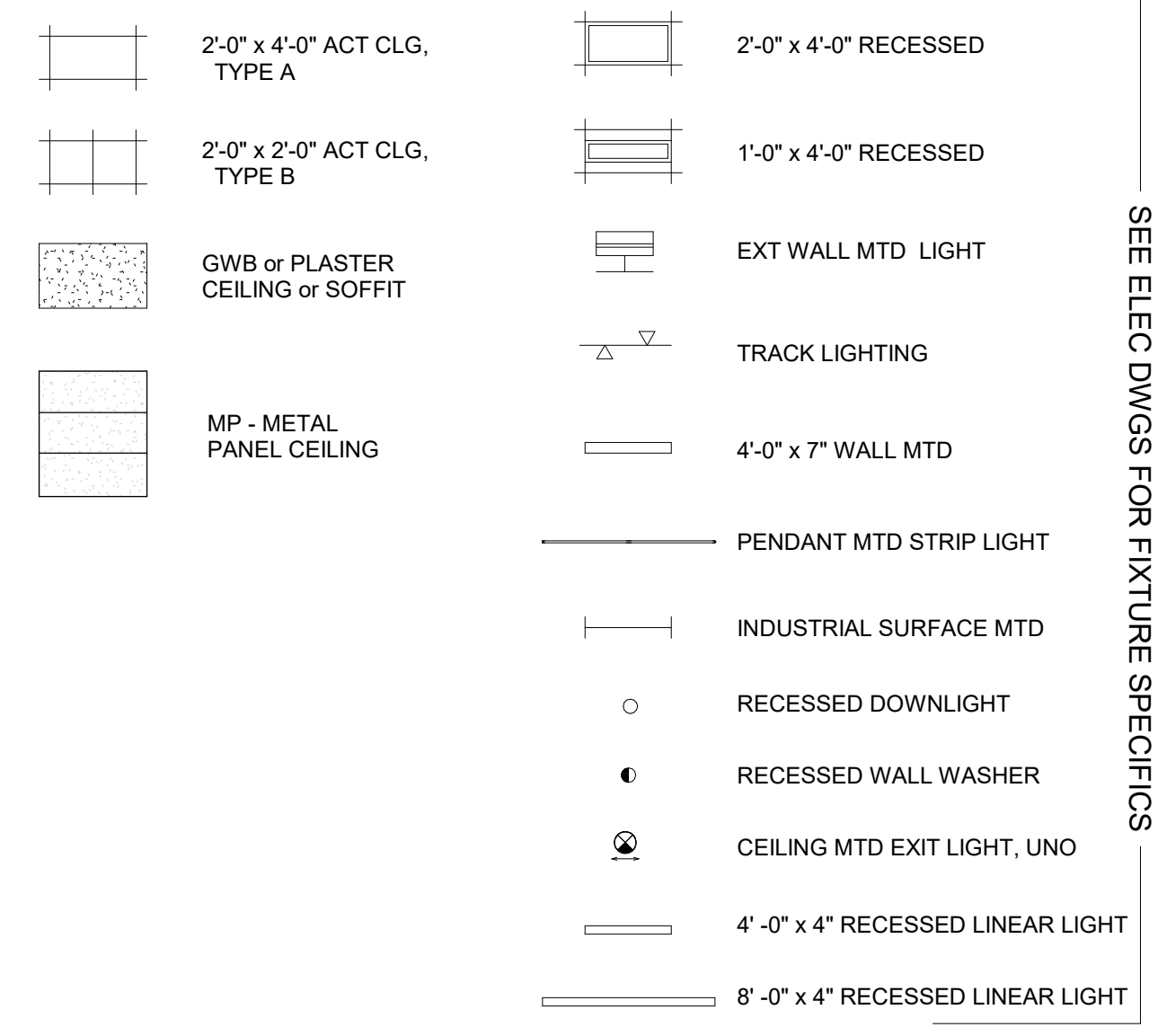
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NOT FOR CONSTRUCTION

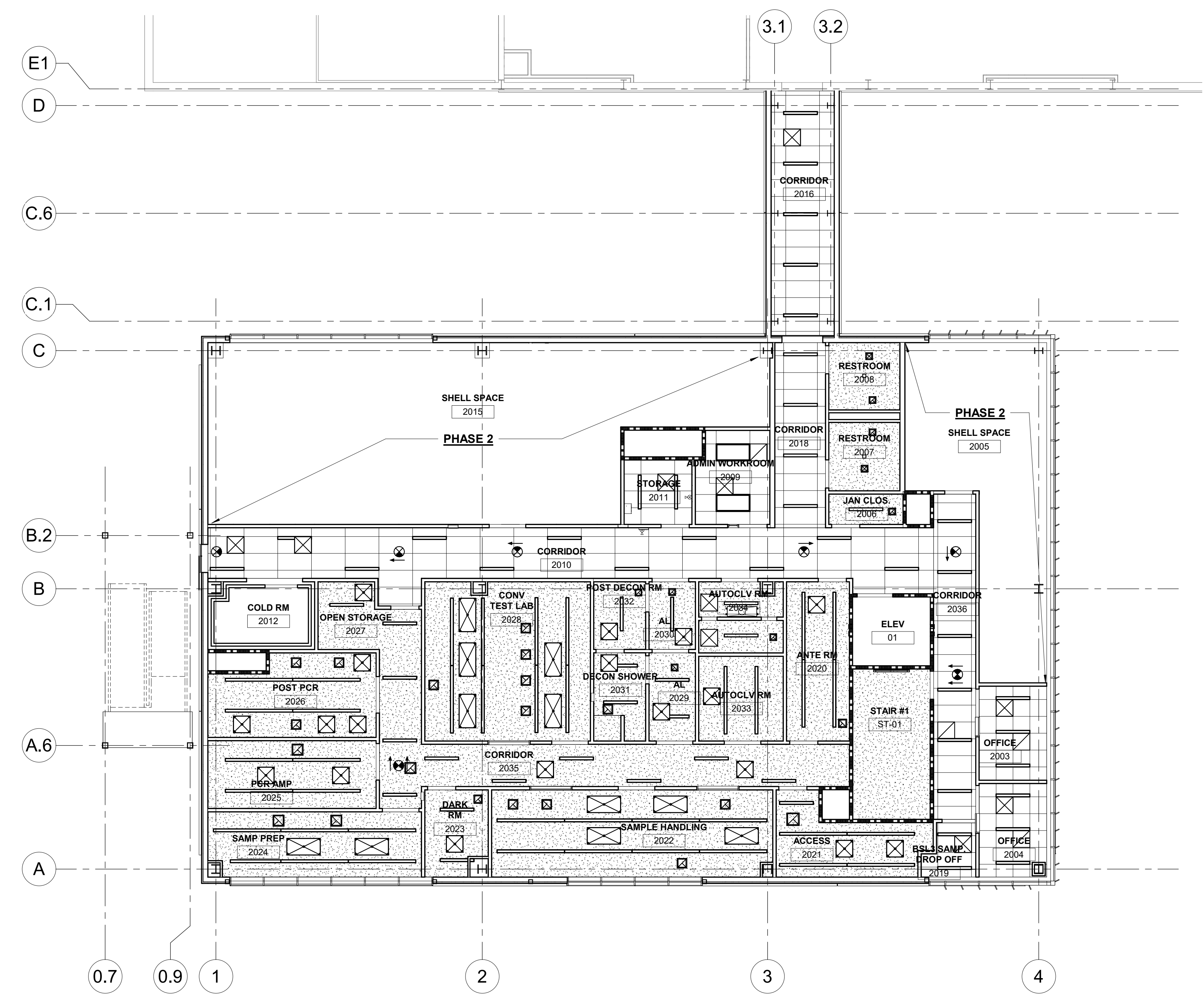
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 - CEILING MTD SPEAKER
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 - CEILING MTD SECURITY CAMERA
 - DIFFUSER - SEE HVAC DWGS
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 - UPRIGHT SPRINKLER HEADS
 - CONCEALED SPRINKLER HEADS
 - CEILING MTD SPEAKER / STROBE
 - CEILING MTD SPEAKER
 - CEILING MTD STROBE
 - CEILING SECURITY CAMERA
- SEE FIRE PROTECTION DWGS FOR EQUIPMENT SPECIFICS
- SEE HVAC DWGS FOR EQUIPMENT SPECIFICS



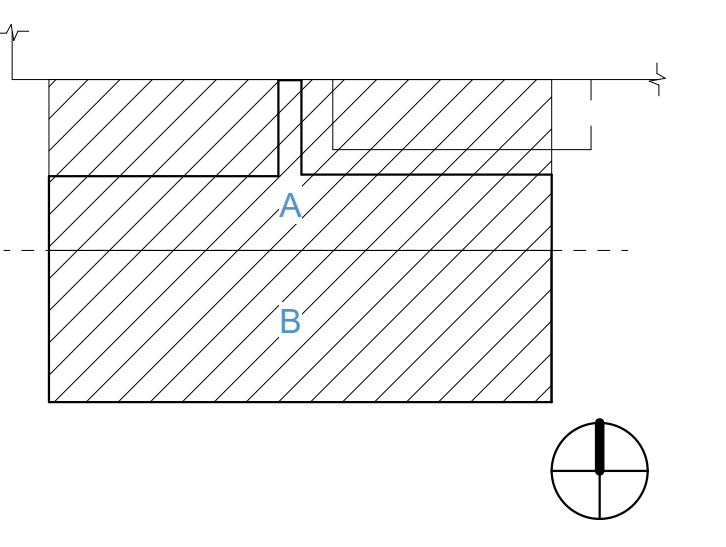
1 LEVEL 2 REFERENCE PLAN
SCALE: 1/8" = 1'-0"

401 West A Street, Suite 320
San Diego, CA 92101
Tel: 949-417-7550

CONSULTANTS



KEY PLAN



PRINCIPAL
DAVID KEITH
RESEARCH PLANNER
STEPH VARGAS
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RICARDO MOLINA

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Las Vegas, NV 89106

DRAWN BY _____ RM _____ DATE 11.08.2024

PROJECT NO. 20230523 SCALE 1/8" = 1'-0"
DRAWING NAME

LEVEL 2 REFERENCE PLAN - PHASE I REFLECTED CEILING PLAN

FLOOR/SECTION PHASE DRAWING NO.

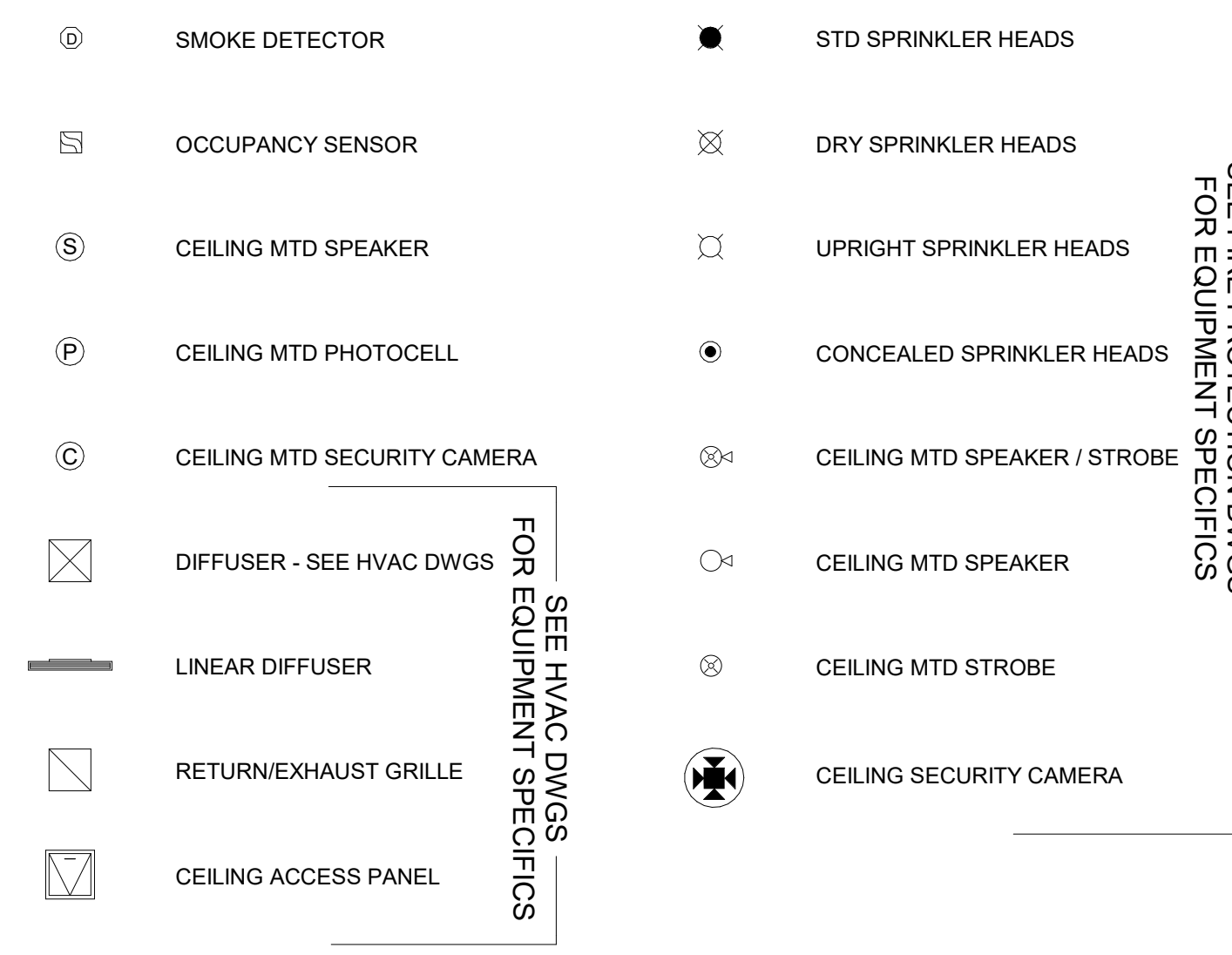
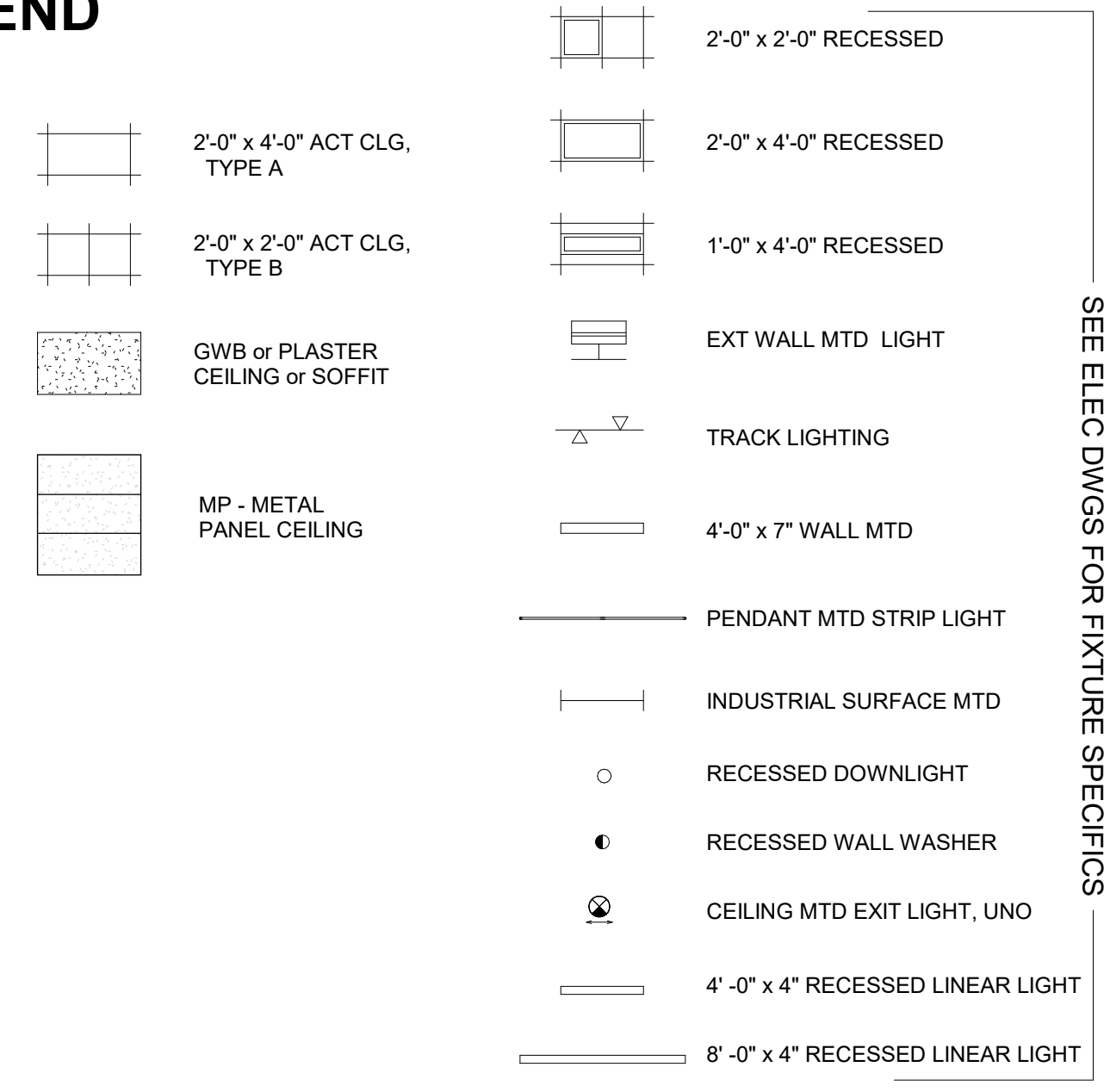
2 CD ACP2.2.0

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CEILING TYPE LEGEND

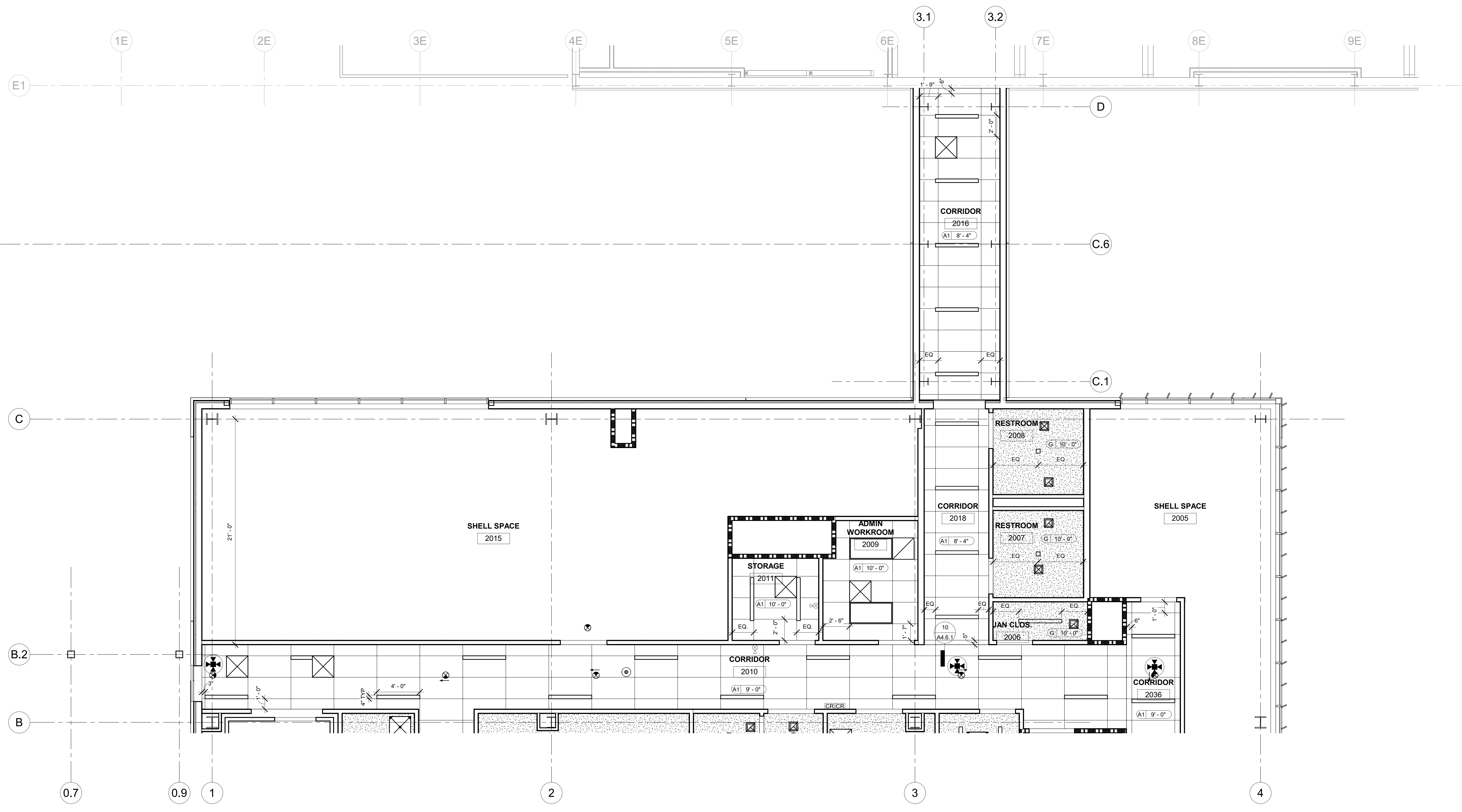
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- CEILING HEIGHT: ↑
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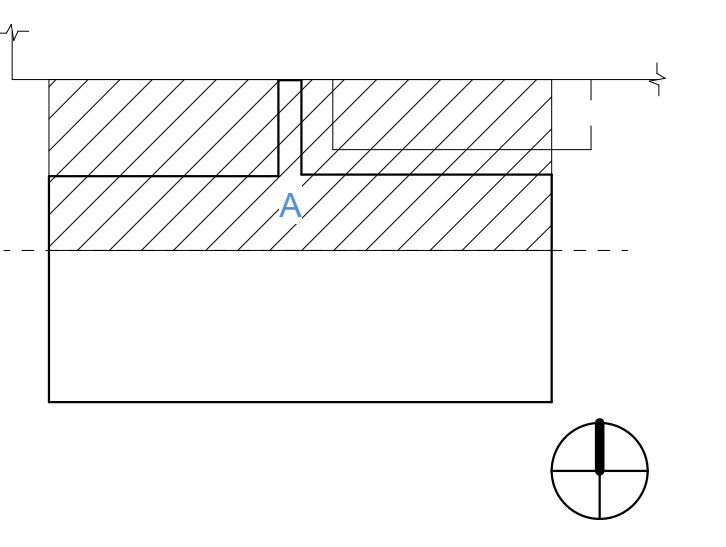
SEE ELEC DWGS FOR FIXTURE SPECIFICS

SEE HVAC DWGS FOR EQUIPMENT SPECIFICS

SEE FIRE PROTECTION DWGS FOR EQUIPMENT SPECIFICS



KEY PLAN



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PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME RCP LEVEL 2 SECTOR A - PHASE I

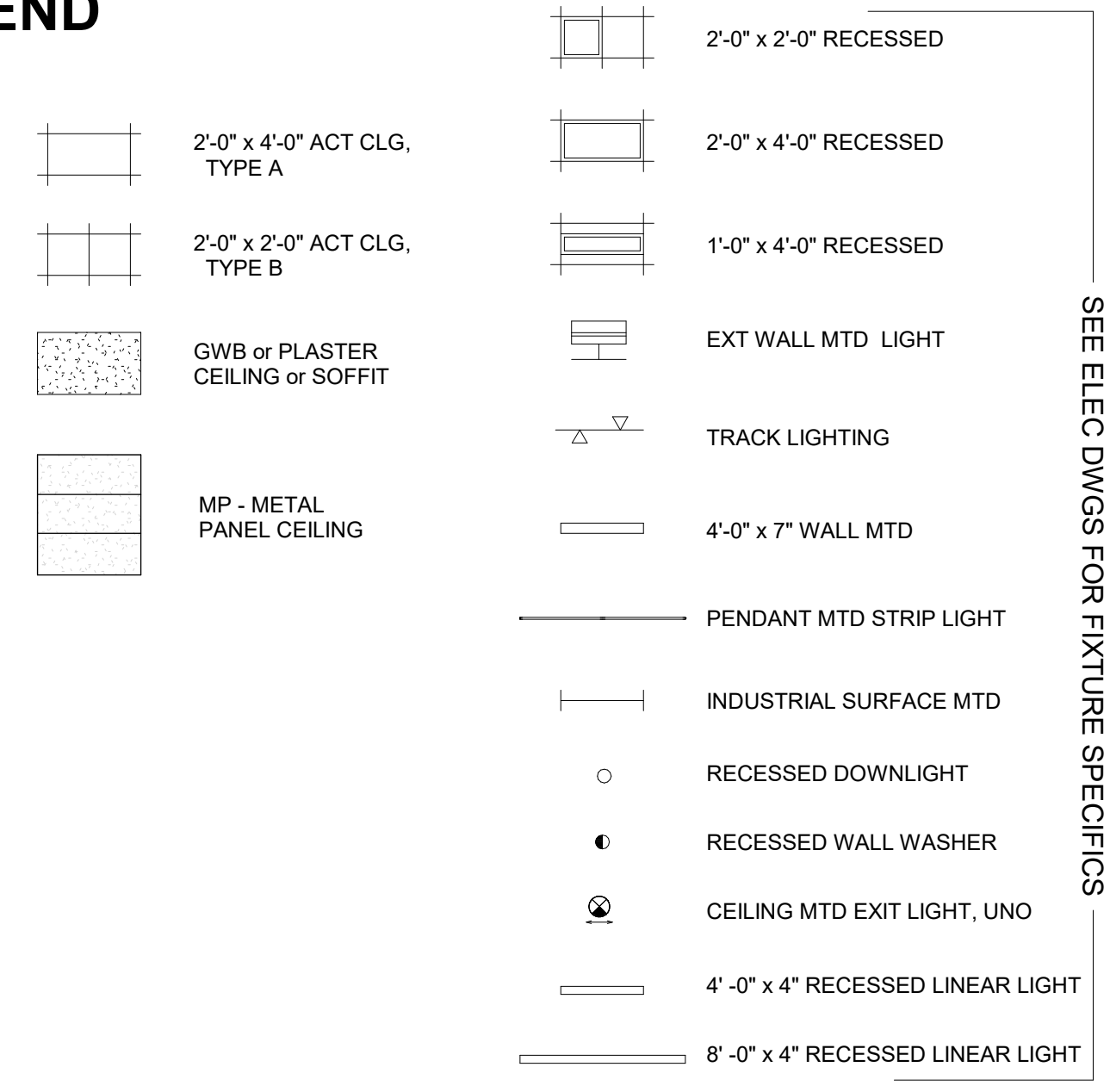
FLOOR/SECTION PHASE DRAWING NO.

2 CD ACP2.2.A

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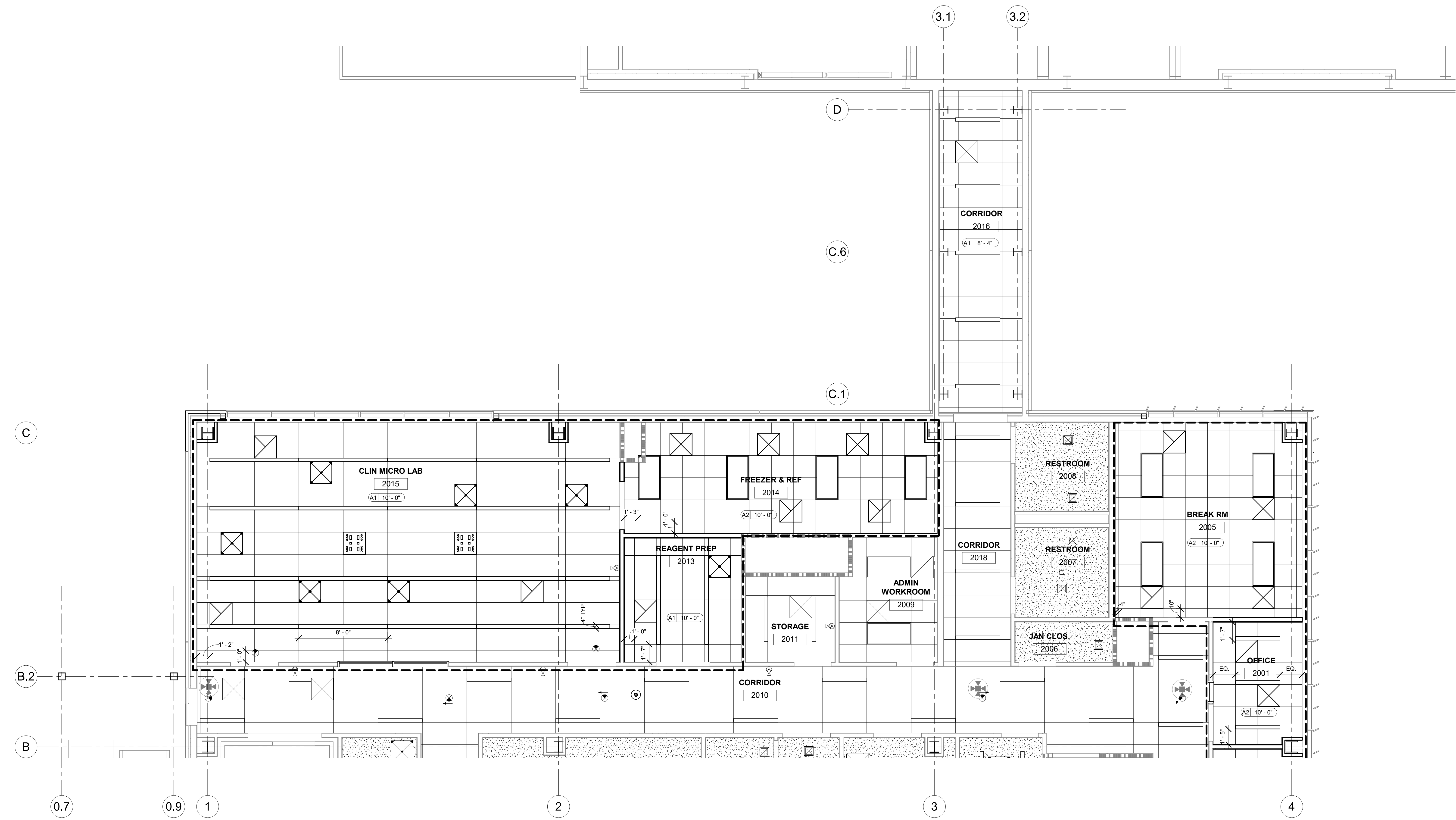


- SMOKE DETECTOR
- OCCUPANCY SENSOR
- CEILING MTD SPEAKER
- CEILING MTD PHOTOCELL
- CEILING MTD SECURITY CAMERA
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- CEILING MTD SPEAKER / STROBE
- CEILING MTD SPEAKER
- CEILING MTD STROBE
- CEILING SECURITY CAMERA

SEE FIRE PROTECTION DWGS FOR EQUIPMENT SPECIFICS

SEE HVAC DWGS FOR EQUIPMENT SPECIFICS

SEE ELEC DWGS FOR FIXTURE SPECIFICS



1 LEVEL 2 - REFLECTED CEILING PLAN - SECTOR A PHASE 2
SCALE: 1/4" = 1'-0"

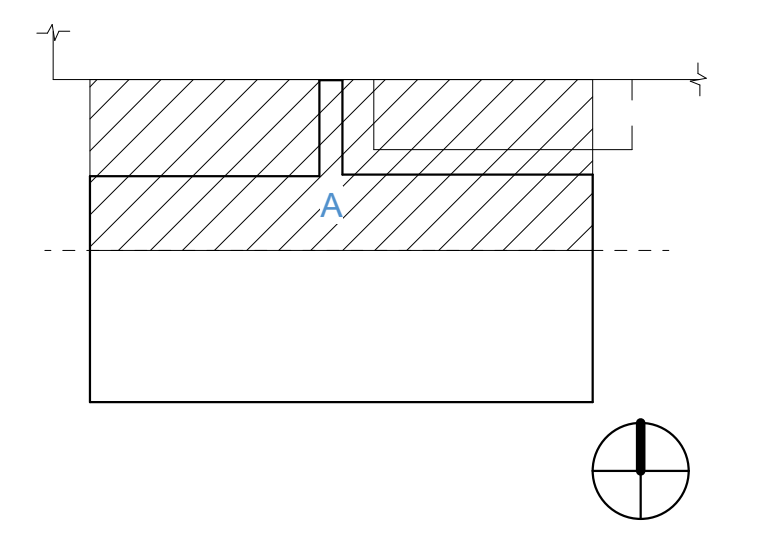
401 West A Street, Suite 320
San Diego, CA 92101
Tel: 949-417-7550

CONSULTANTS

latitude **33**
PLANNING & ENGINEERING
TERP consulting
fire + life safety



KEY PLAN



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FLOOR/SECTION PHASE DRAWING NO.

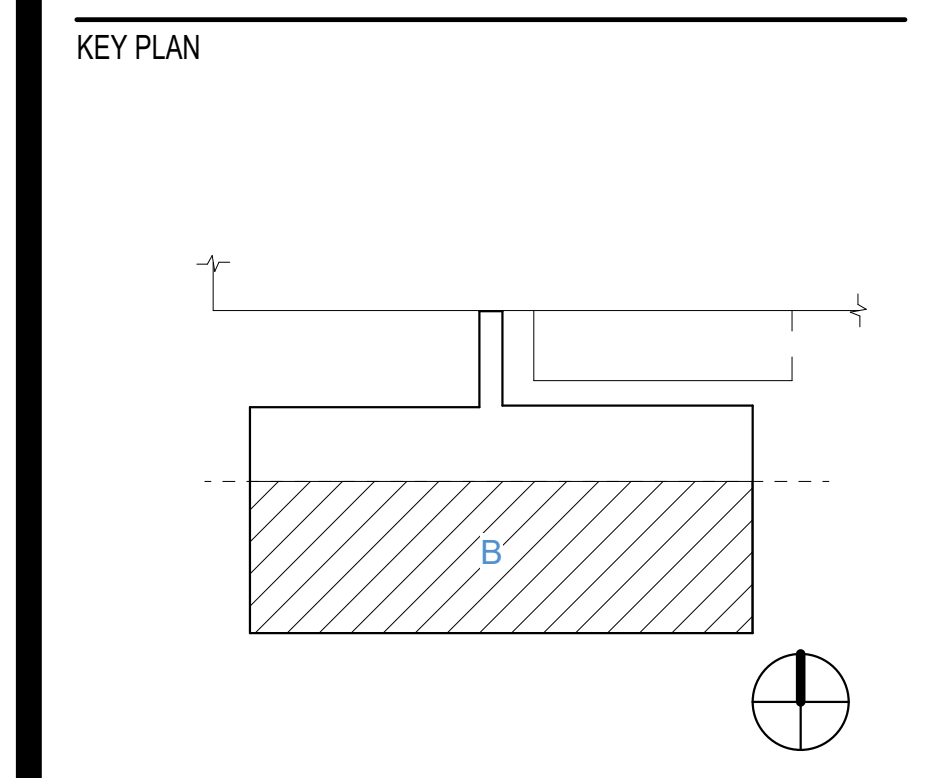
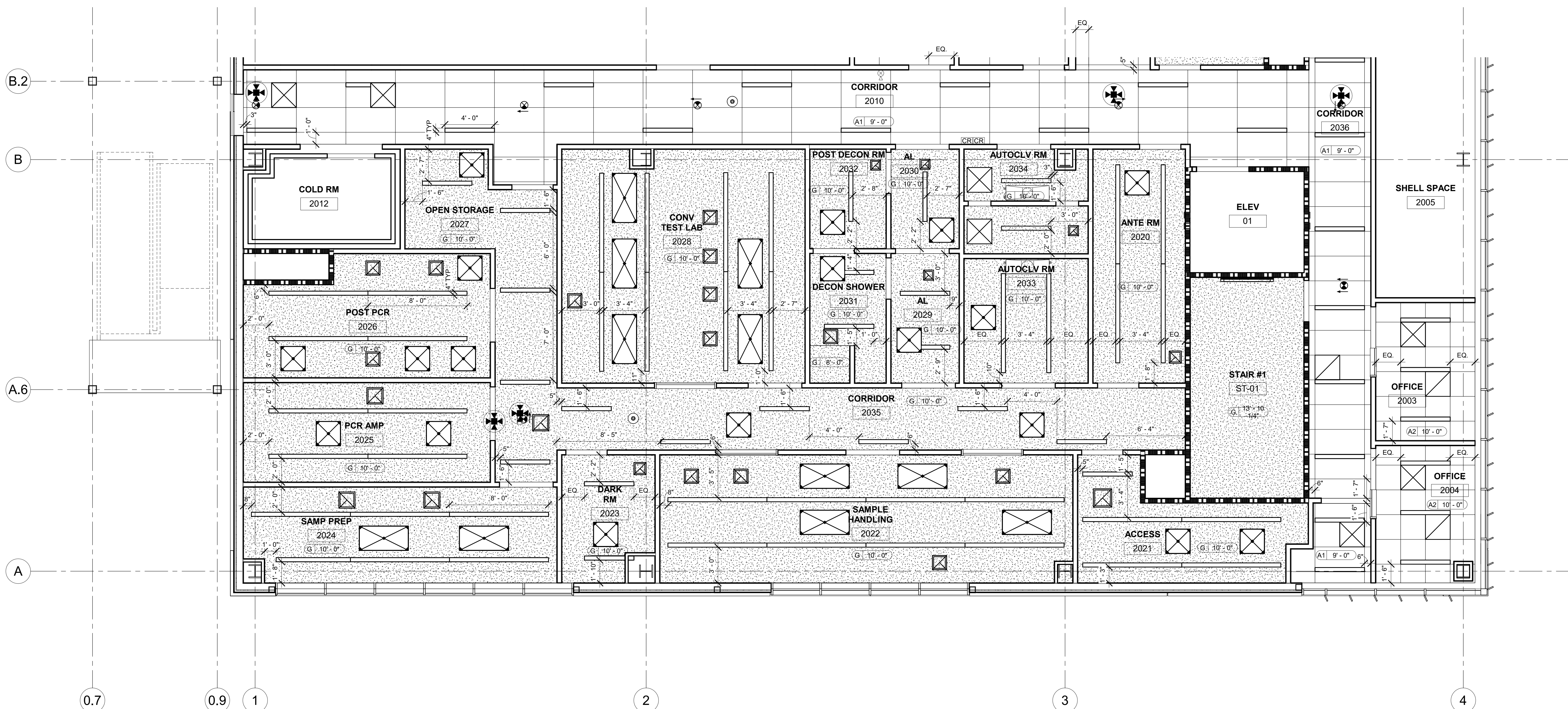
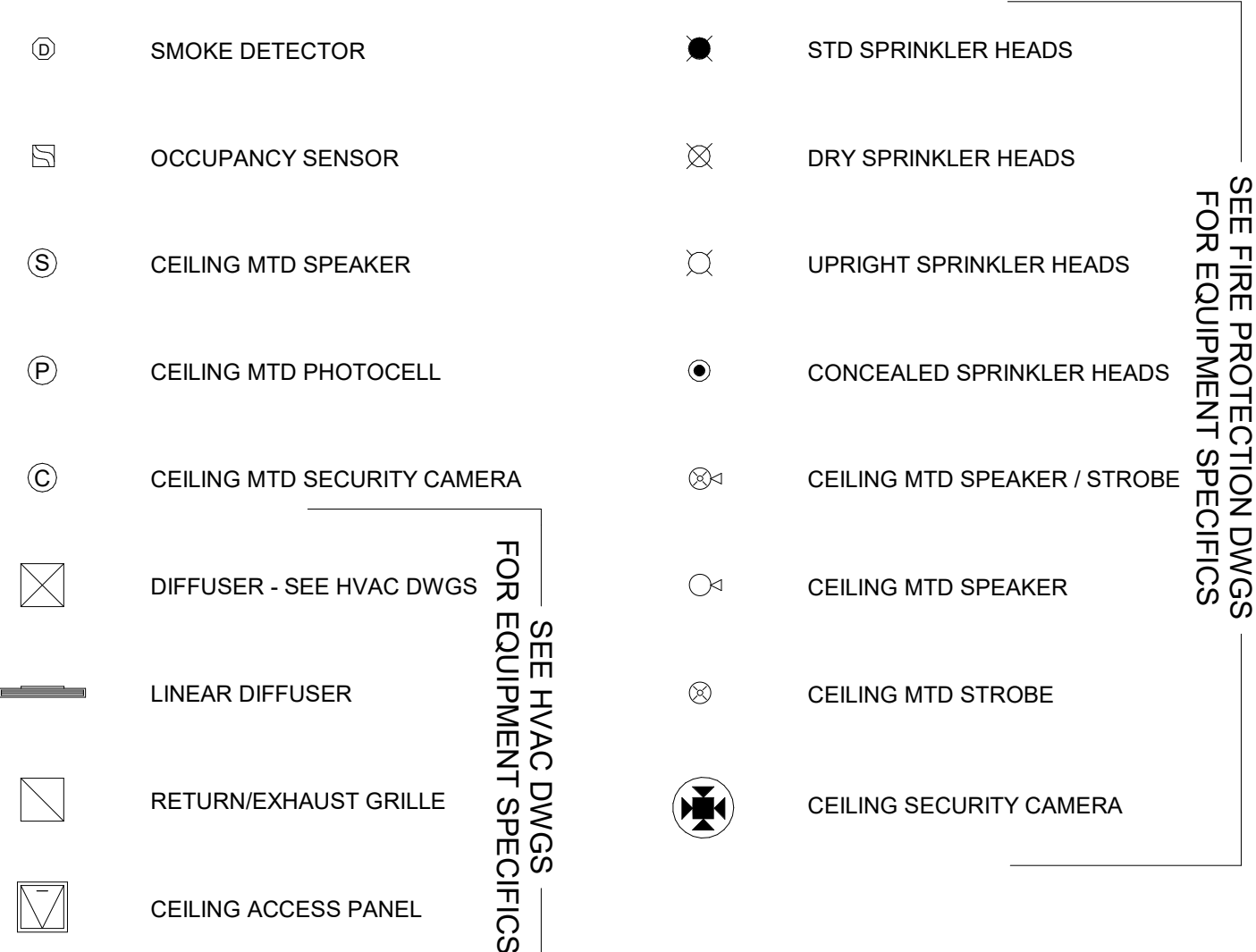
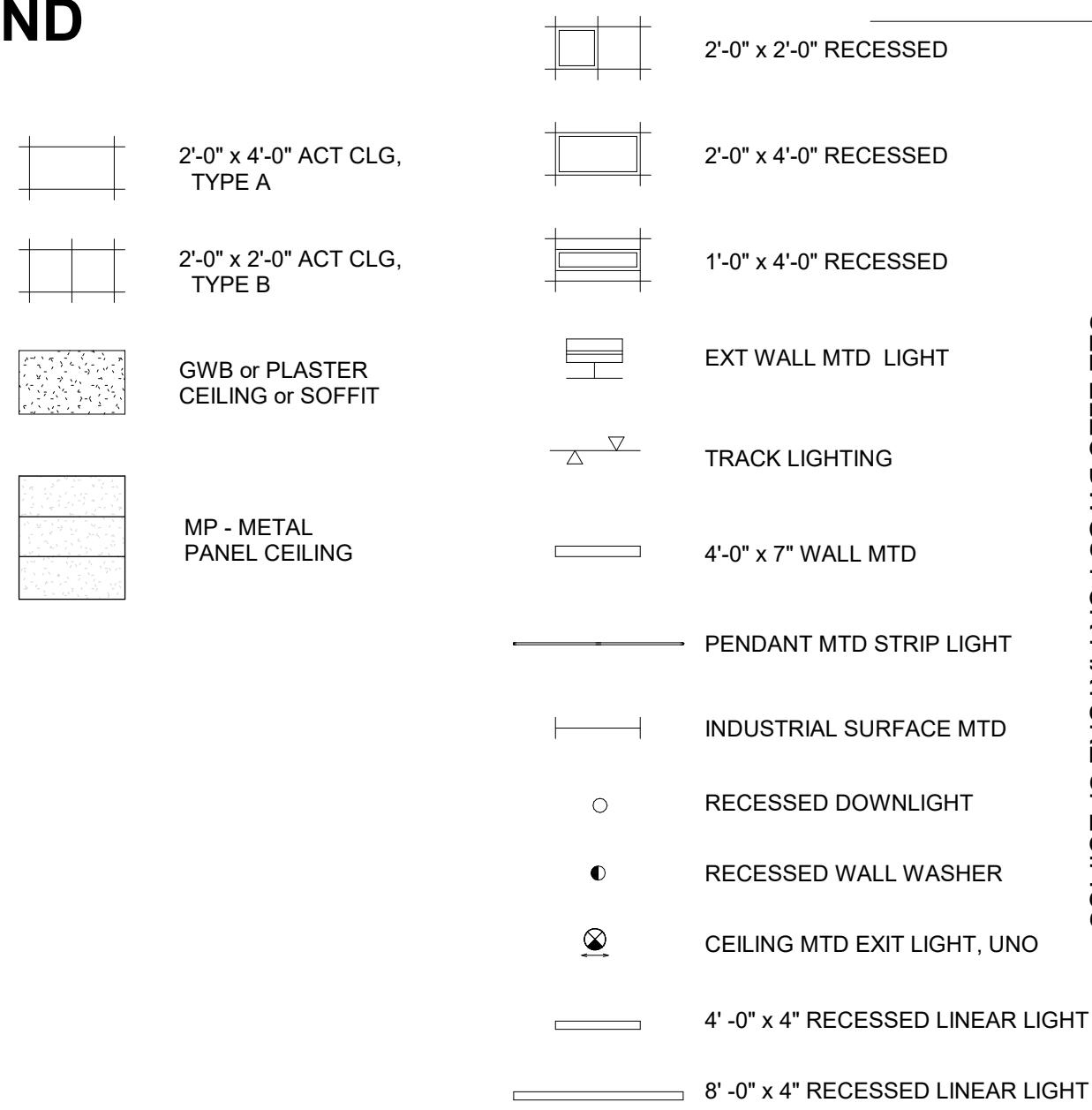
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CEILING TYPE LEGEND

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- ALL OTHER CEILING LABELED AS FOLLOWS:
 - A1 8'-6"
 - CEILING TYPE
 - CEILING HEIGHT
 - A ACOUSTICAL CEILING TILE
 - EP EXISTING PLASTER, TO BE PTD
 - G GWB, PAINTED
 - NC NO CEILING
 - P PLASTER
 - W WOOD
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DRAWING NAME	RCP LEVEL 2 SECTOR B - PHASE I		
FLOOR/SECTION	PHASE	DRAWING NO.	
2	CD	ACP2.2.B	

NOT FOR CONSTRUCTION

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CEILING TYPE LEGEND

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2. ALL OTHER CEILING LABELED AS FOLLOWS:

CEILING TYPE	CEILING HEIGHT
A	ACOUSTICAL CEILING TILE
EP	EXISTING PLASTER, TO BE PTD
G	GWB, PAINTED
NC	NO CEILING
P	PLASTER
W	WOOD

	2'-0" x 4'-0" ACT CLG. TYPE A
	2'-0" x 2'-0" ACT CLG. TYPE B
	GWB or PLASTER CEILING or SOFFIT
	MP - METAL PANEL CEILING

3. ALL CEILING GRIDS SHALL BE CENTERED ON ROOM/SPACE UNO.

4. ALL FIXTR'S, DIFFUSERS, GRILLS, SPRINKLER HEADS, SPEAKERS OR OTHER DEVICES SHALL BE LOCATED IN THE CENTER OF A CEILING TILE OR THE CENTER OF A PANEL INSCRIBED ON A TILE, UNO.

5. CENTER ALL INDUSTRIAL PENDANT FIXTURES IN ROOM UNO.

6. COORDINATE PROJECTOR LOCATIONS WITH FINAL PROJECTOR MANUFACTURER.

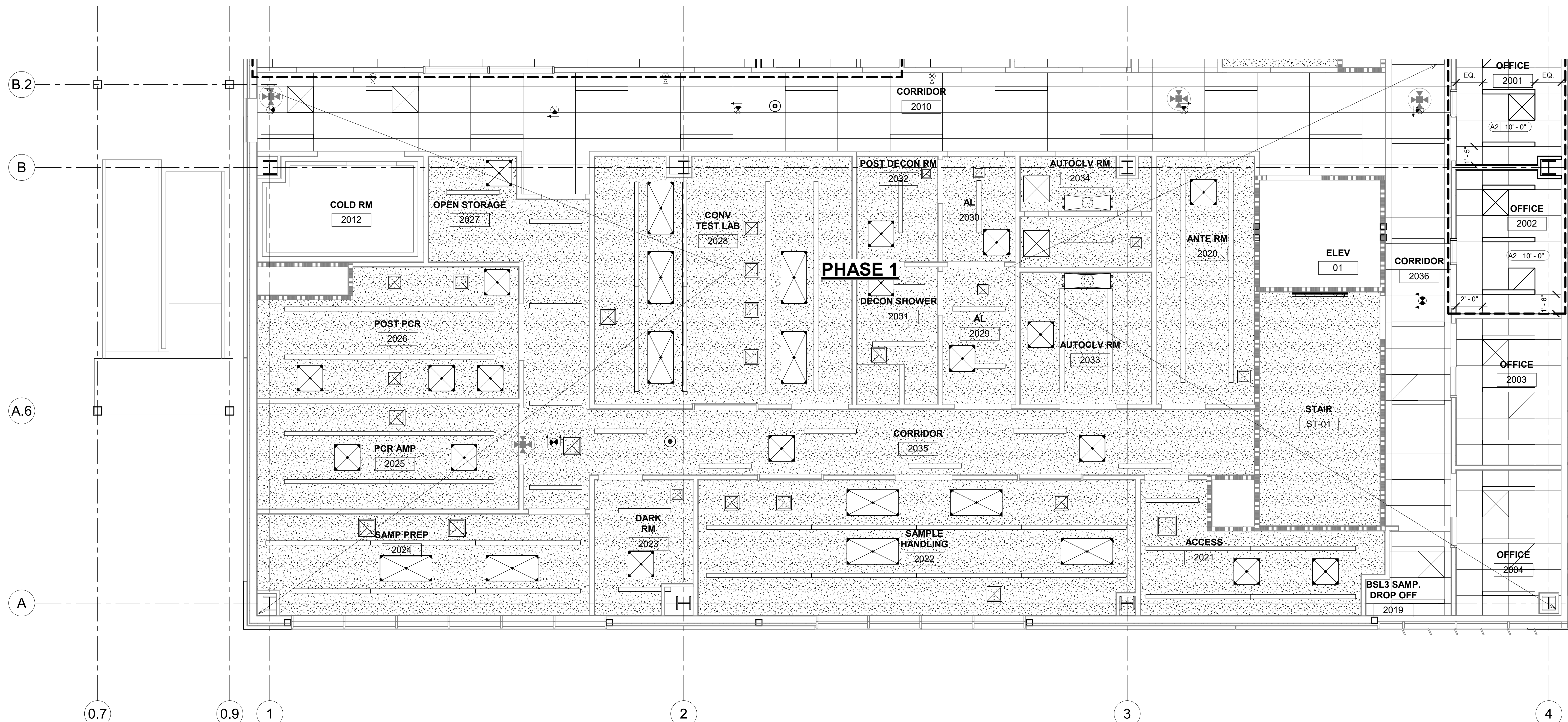
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	2'-0" x 4'-0" RECESSED
	1'-0" x 4'-0" RECESSED
	EXT WALL MTD LIGHT
	TRACK LIGHTING
	4'-0" x 7" WALL MTD
	PENDANT MTD STRIP LIGHT
	INDUSTRIAL SURFACE MTD
	RECESSED DOWNLIGHT
	RECESSED WALL WASHER
	CEILING MTD EXIT LIGHT, UNO
	4'-0" x 4" RECESSED LINEAR LIGHT
	8'-0" x 4" RECESSED LINEAR LIGHT

SEE ELEC DWGS FOR FIXTURE SPECIFICS

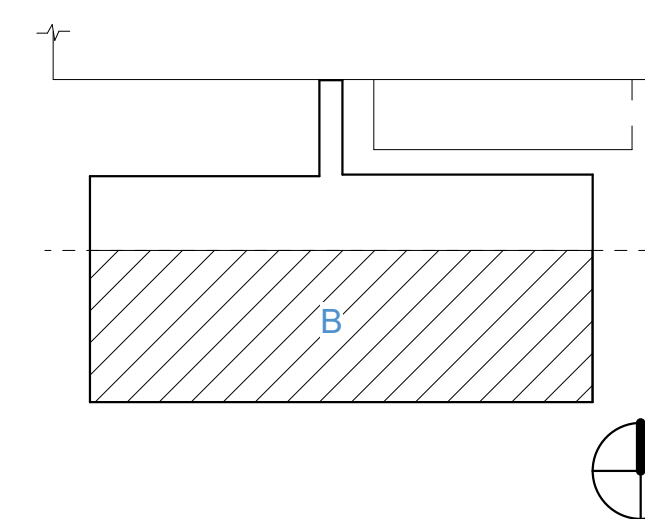
SEE HVAC DWGS FOR EQUIPMENT SPECIFICS

SEE FIRE PROTECTION DWGS FOR EQUIPMENT SPECIFICS

	SMOKE DETECTOR		STD SPRINKLER HEADS
	OCCUPANCY SENSOR		DRY SPRINKLER HEADS
	CEILING MTD SPEAKER		UPRIGHT SPRINKLER HEADS
	CEILING MTD PHOTOCELL		CONCEALED SPRINKLER HEADS
	CEILING MTD SECURITY CAMERA		CEILING MTD SPEAKER / STROBE
	DIFFUSER - SEE HVAC DWGS		CEILING MTD SPEAKER
	LINEAR DIFFUSER		CEILING MTD STROBE
	RETURN/EXHAUST GRILLE		CEILING SECURITY CAMERA
	CEILING ACCESS PANEL		



KEY PLAN



PRINCIPAL
DAVID KEITH
RESEARCH PLANNER
STEPH VARGAS
ARCHITECT
ROBERT MCCONNELL
ARCHITECTURAL DESIGNER
RICARDO MOLINA

REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D			10.11.2024
C		ISSUED FOR OWNER'S REVIEW	09.26.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY: Author DATE: 11.08.2024

PROJECT NO. 20230523 SCALE As indicated

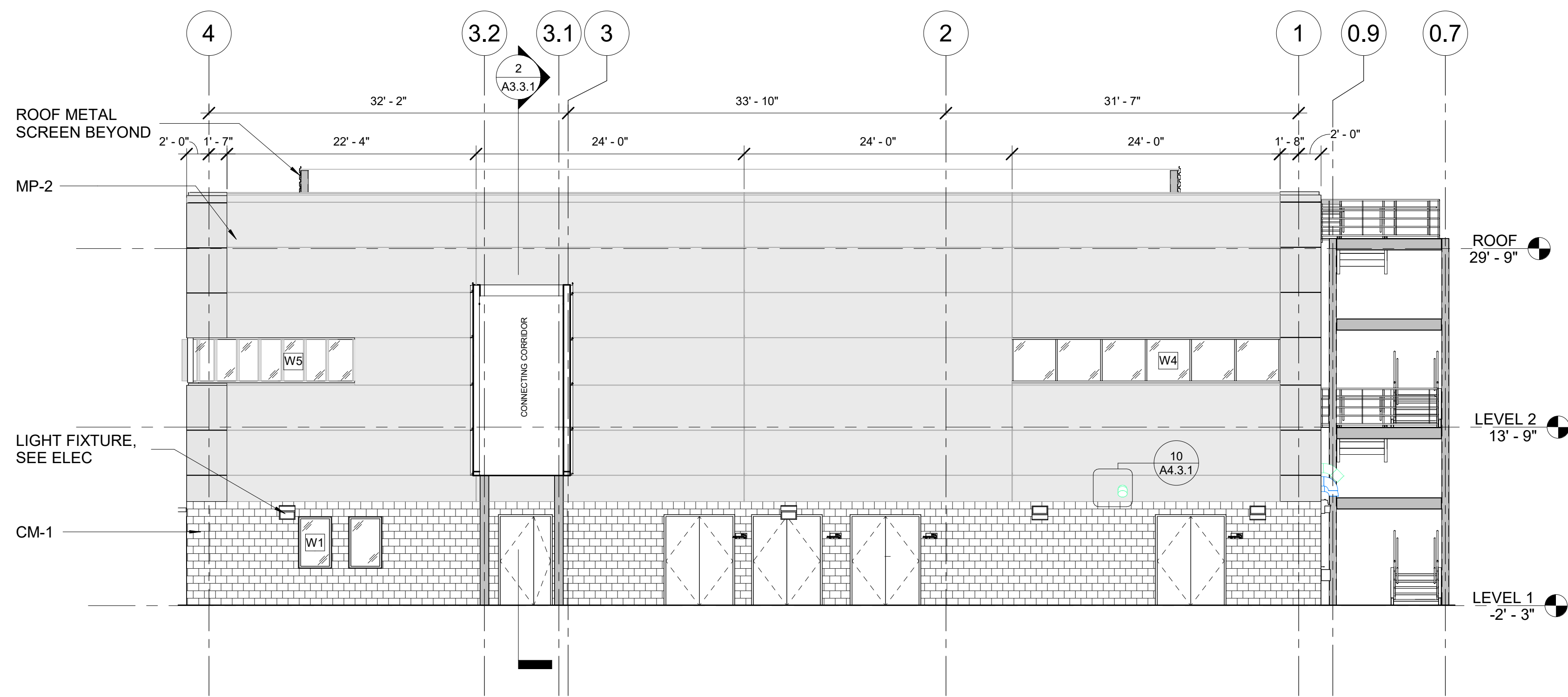
DRAWING NAME

RCP LEVEL 2 SECTOR B - PHASE 2

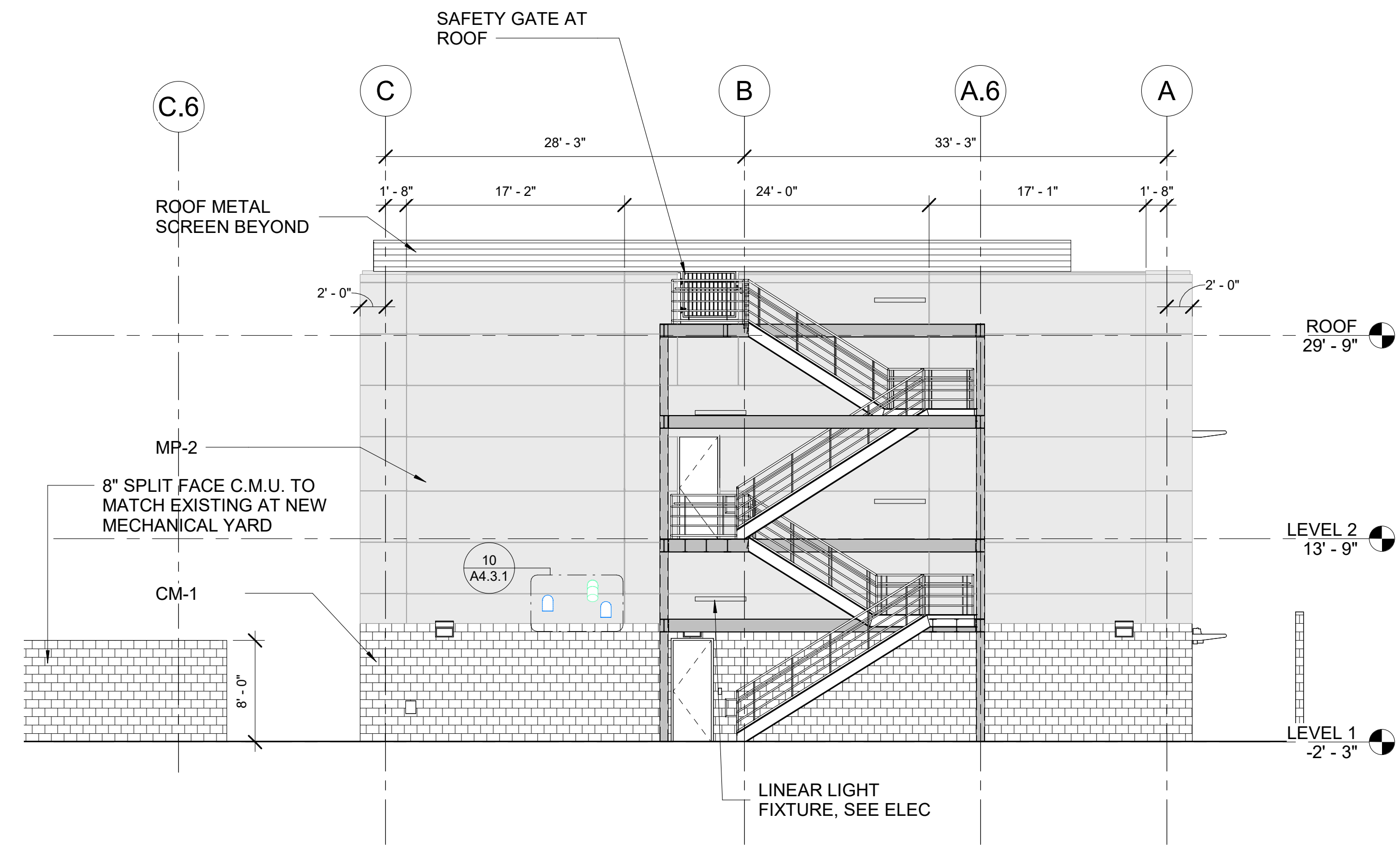
FLOOR/SECTION PHASE DRAWING NO.

CD ACP2.2.B.2

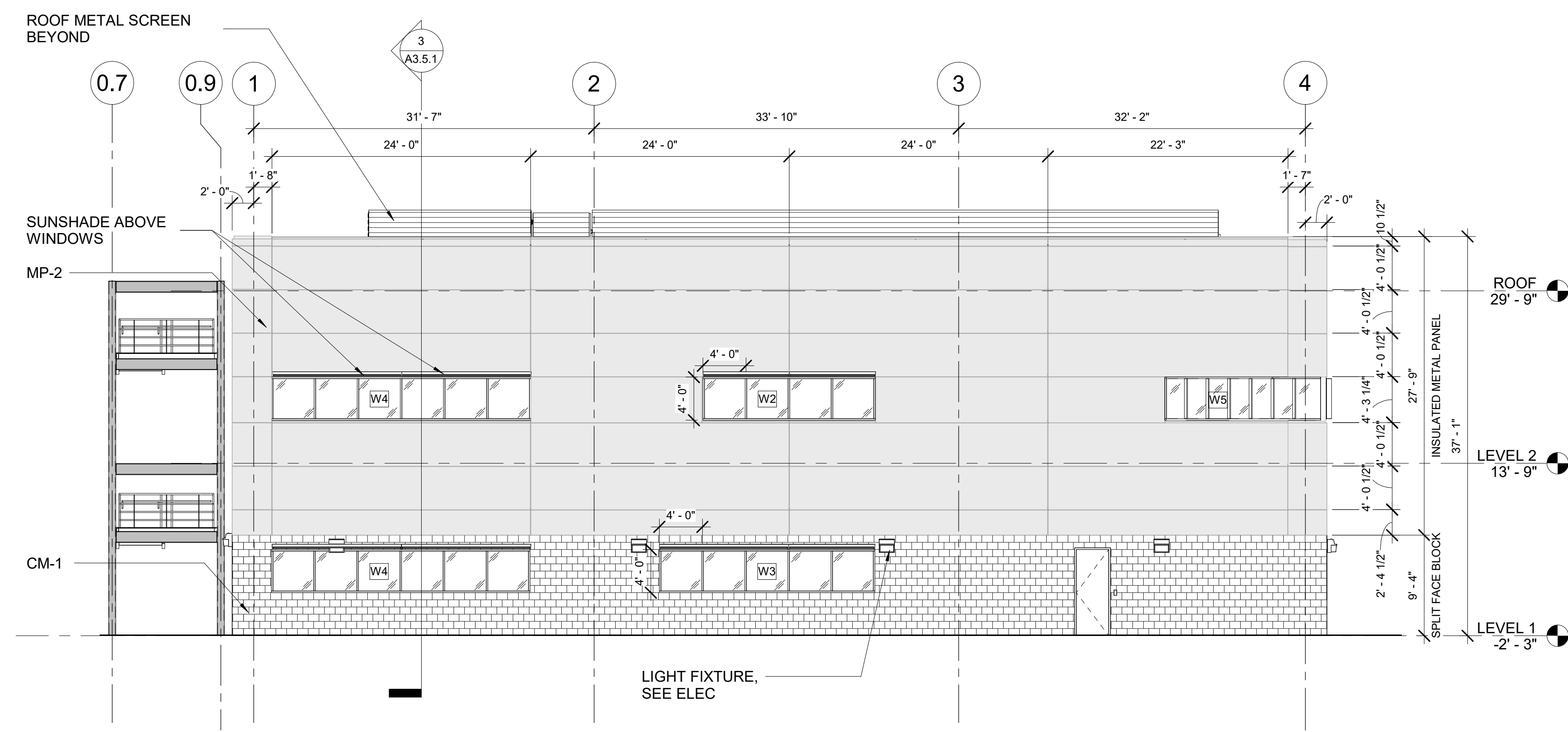
NOT FOR CONSTRUCTION



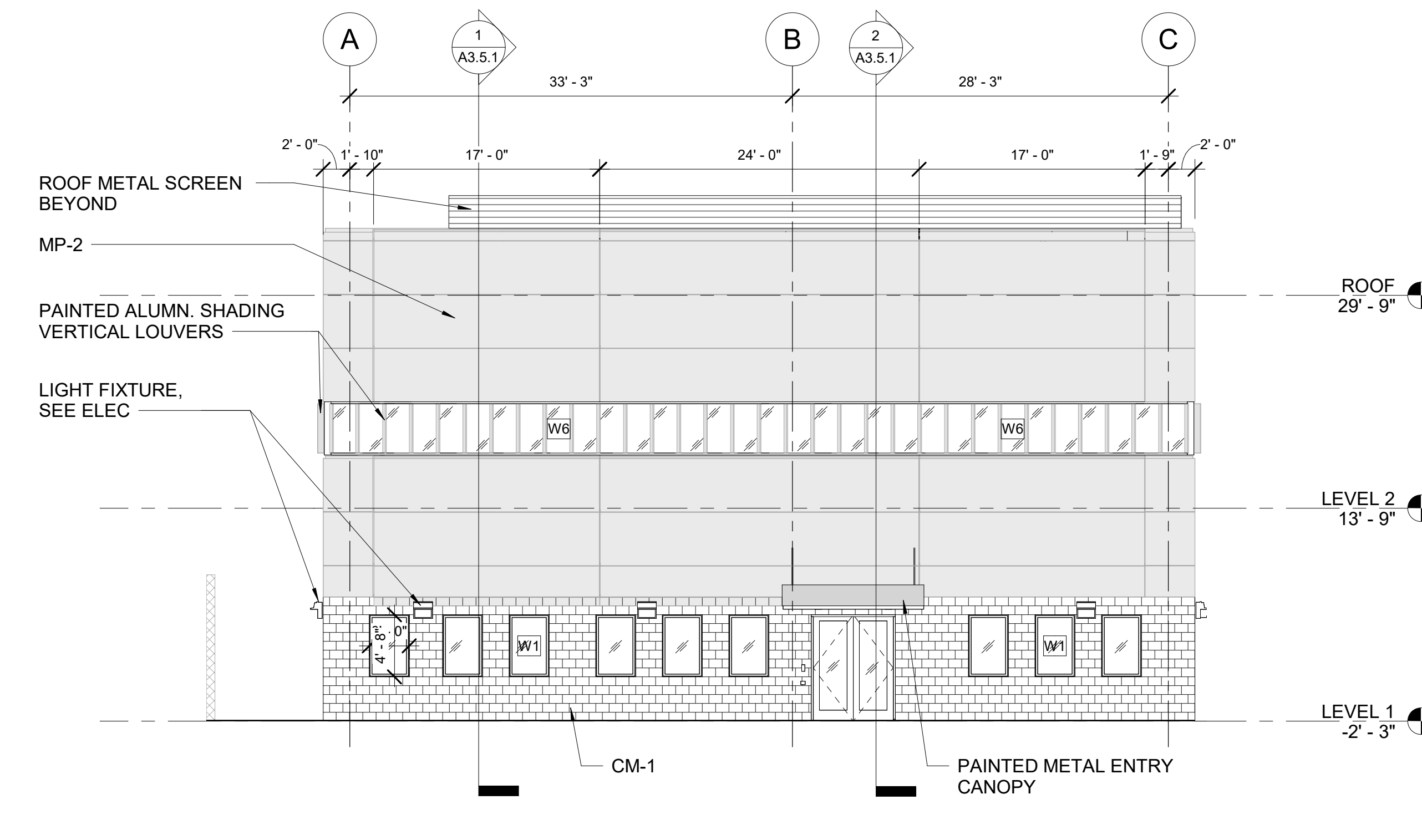
4 NORTH BUILDING ELEVATION
SCALE: 1/8" = 1'-0"



3 WEST BUILDING ELEVATION
SCALE: 1/8" = 1'-0"



2 SOUTH BUILDING ELEVATION
SCALE: 1/8" = 1'-0"



1 EAST BUILDING ELEVATION
SCALE: 1/8" = 1'-0"

KEY PLAN

PRINCIPAL
DAVID KEITH
RESEARCH PLANNER
STEPH VARGAS
ARCHITECT
ROBERT MCCONNELL
ARCHITECTURAL DESIGNER
RICARDO MOLINA

REVISIONS			
NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D		ISSUED FOR OWNER'S REVIEW	10.11.2024
C		DESIGN DEVELOPMENT	09.26.2024
B		50% DD SET	05.24.2024
A			05.10.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

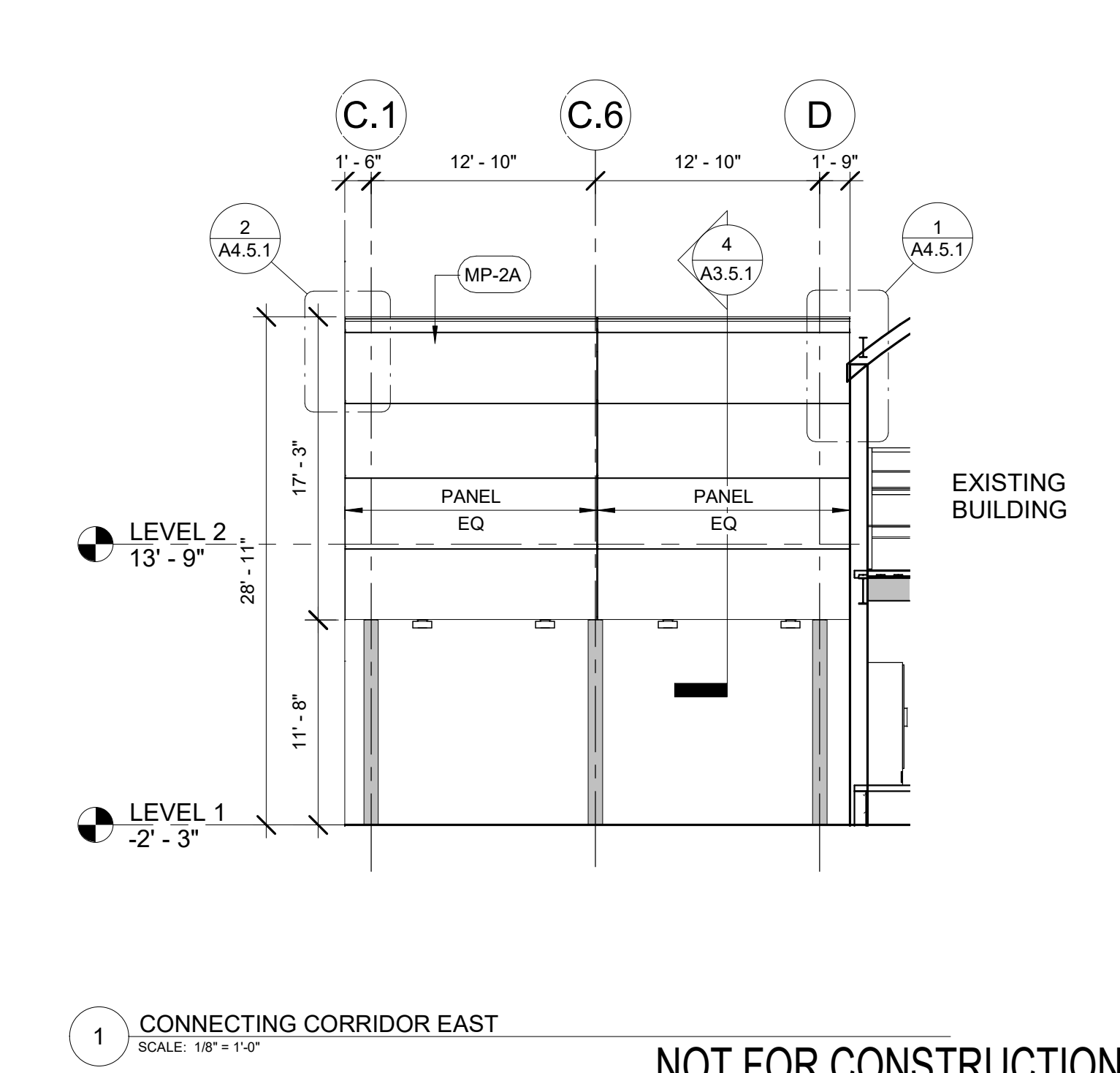
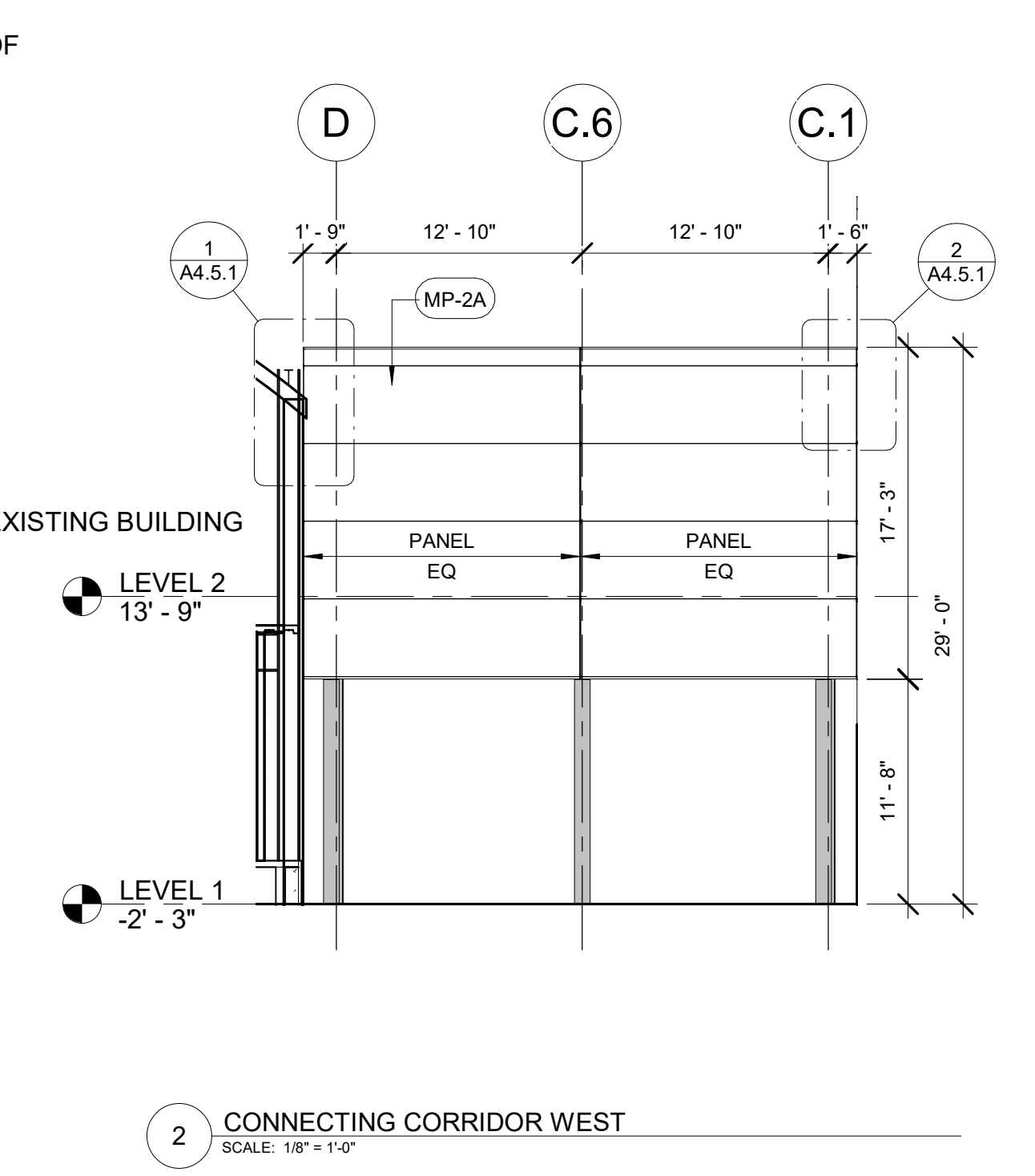
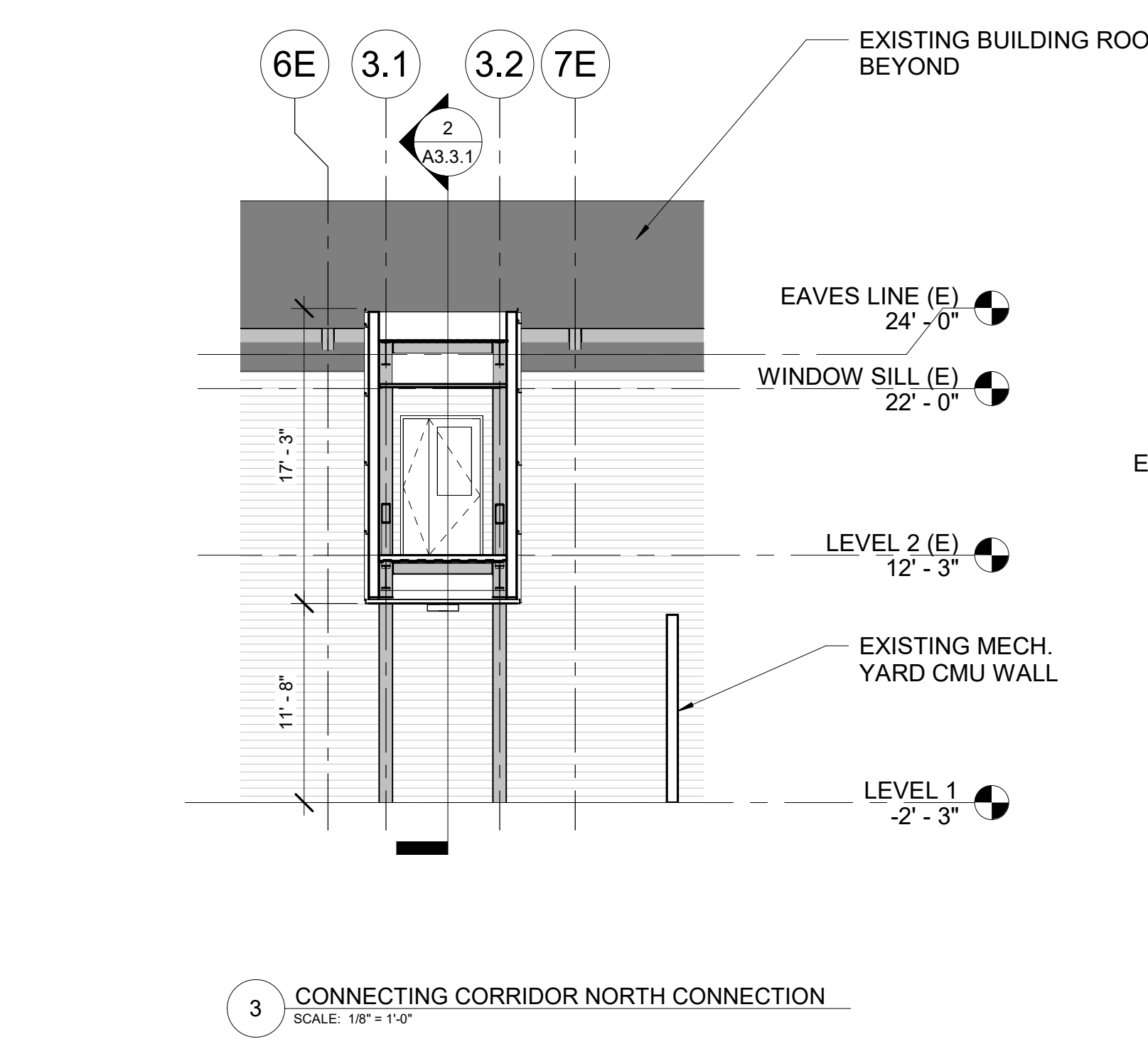
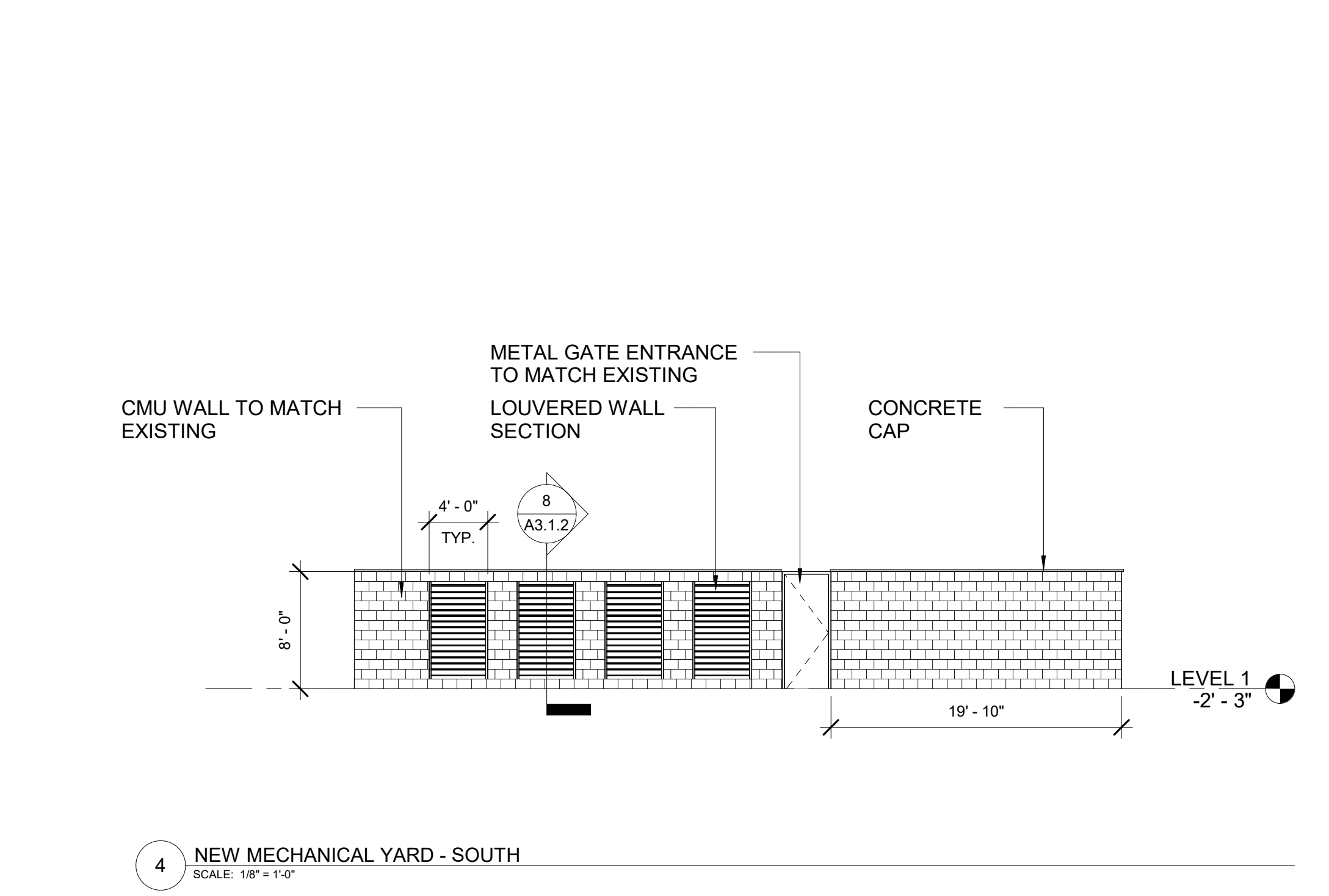
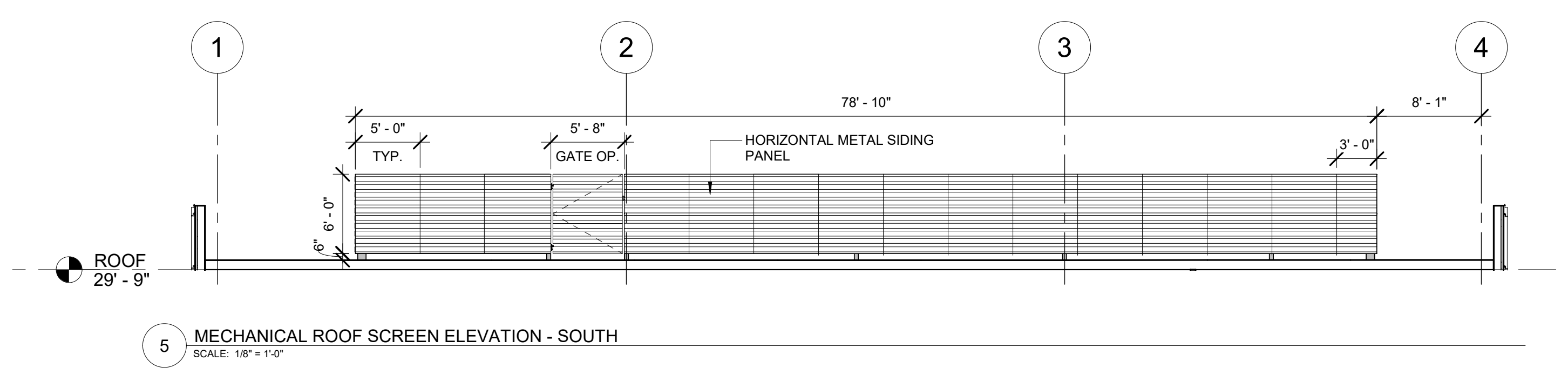
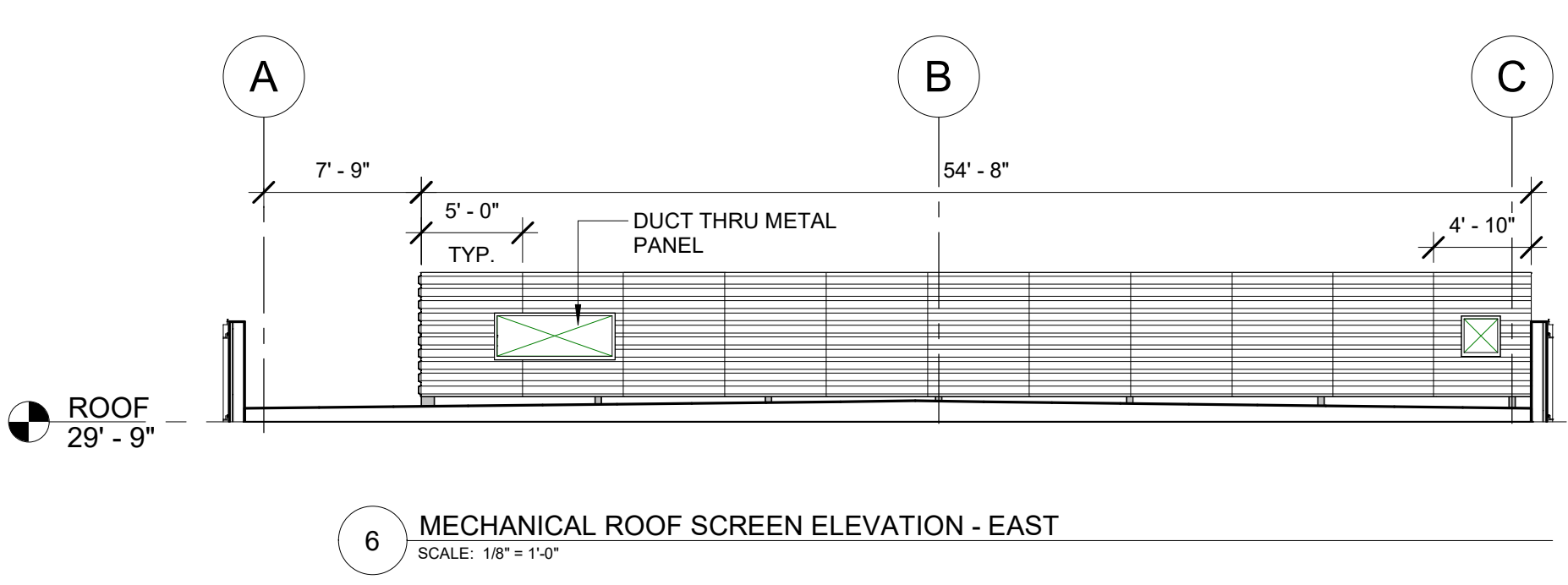
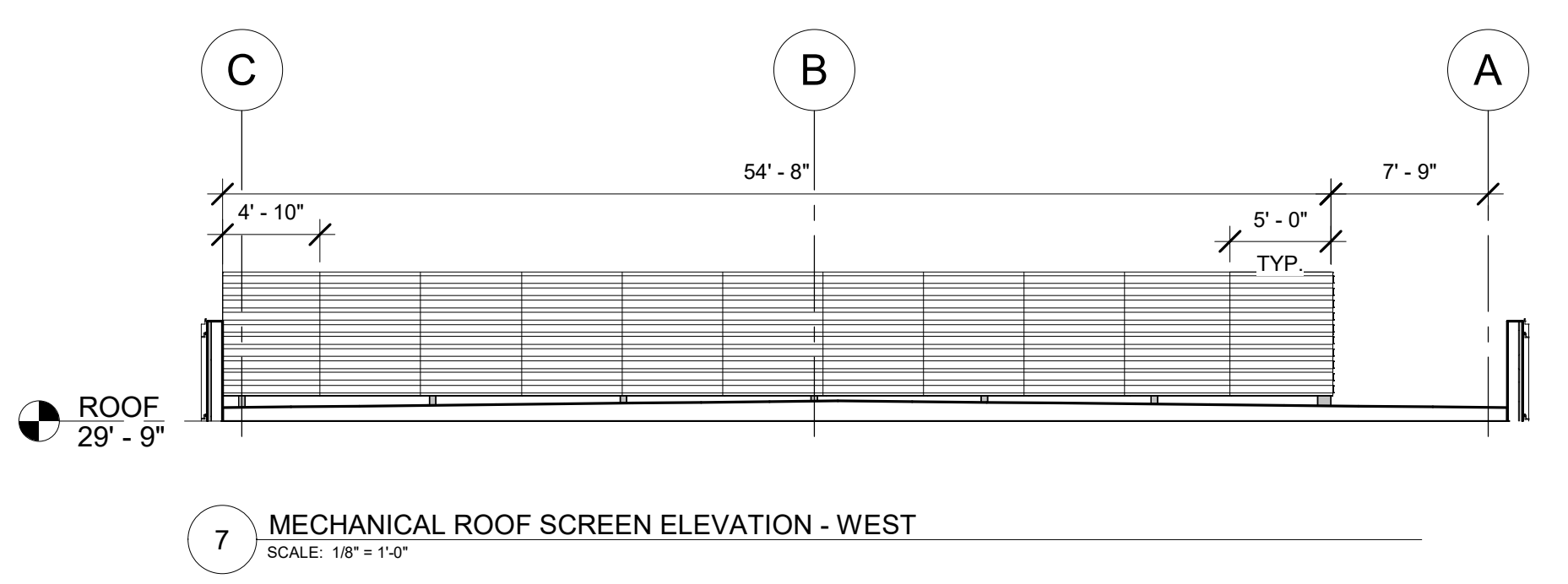
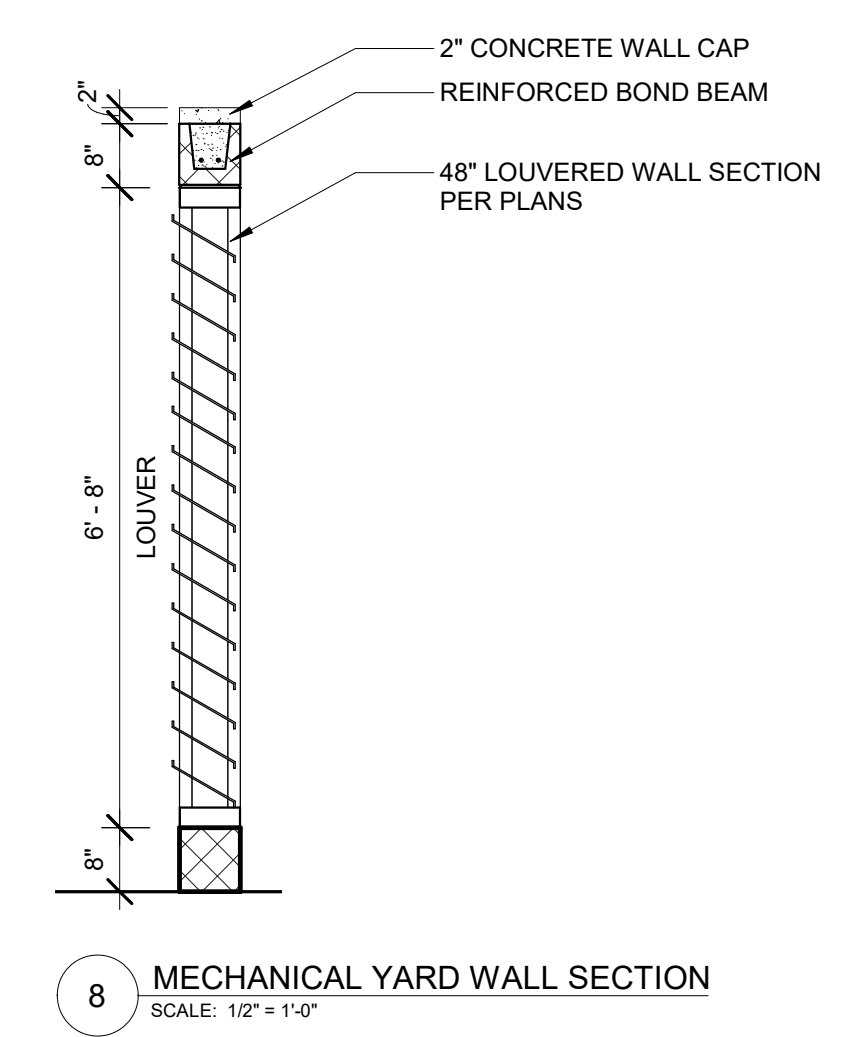
DRAWN BY RM DATE 11.08.2024
PROJECT NO. 20230523 SCALE 1/8" = 1'-0"

BUILDING ELEVATIONS
FLOOR/SECTION PHASE DRAWING NO.

NOT FOR CONSTRUCTION

CD A3.1.1

11/8/2024 11:43:17 AM Autodesk Docs://20230523 - South Nevada Health District M.L.K. Bldg - 3 LAB/20230523_022_CENTRAL.rvt



NOT FOR CONSTRUCTION

KEY PLAN

PRINCIPAL
DAVID KEITH
RESEARCH PLANNER
STEPH VARGAS
ARCHITECT
ROBERT MCCONNELL
ARCHITECTURAL DESIGNER
RICARDO MOLINA

REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D		ISSUED FOR OWNER'S REVIEW	10.11.2024
C		DESIGN DEVELOPMENT	09.26.2024
B		50% DD SET	05.24.2024
A			05.10.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY RM DATE 11.08.2024

PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME BUILDING ELEVATIONS - CONNECTING CORRIDOR, MECH. YARD & ROOF SCREEN

FLOOR/SECTION PHASE DRAWING NO.

CD A3.1.2

11/8/2024 11:43:59 AM Autodesk Docs://20230523 - South Nevada Health District MLK BLD-3 LAB/20230523_A22_CENTRAL.rvt

KEY PLAN

PRINCIPAL
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RICARDO MOLINA

REVISIONS

NO.	BY	DESCRIPTION	DATE
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A		50% DD SET	05.10.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

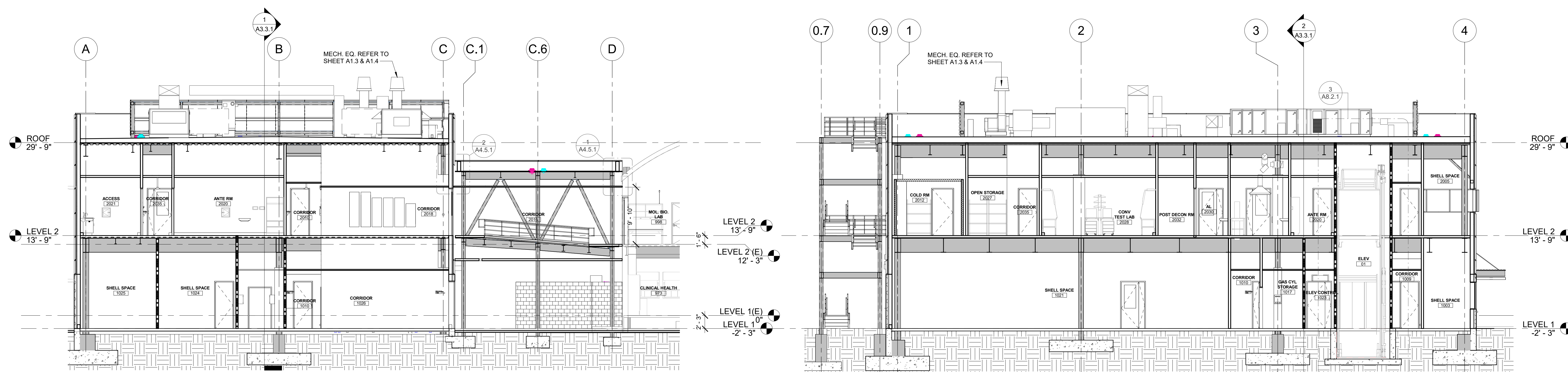
DRAWN BY _____ RM DATE 11.08.2024

PROJECT NO. 20230523 SCALE 1/8" = 1'-0"

DRAWING NAME _____

BUILDING SECTIONS _____

FLOOR/SECTION PHASE _____ DRAWING NO. _____



2 BUILDING SECTION - TRANSVERSE EAST & WEST
SCALE: 1/8" = 1'-0"

1 BUILDING SECTION - LONGITUDINAL NORTH & SOUTH
SCALE: 1/8" = 1'-0"

NOT FOR CONSTRUCTION

CD

A3.3.1

KEY PLAN

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REVISIONS

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Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY RM DATE 11.08.2024

PROJECT NO. 20230523 SCALE 1/2" = 1'-0"

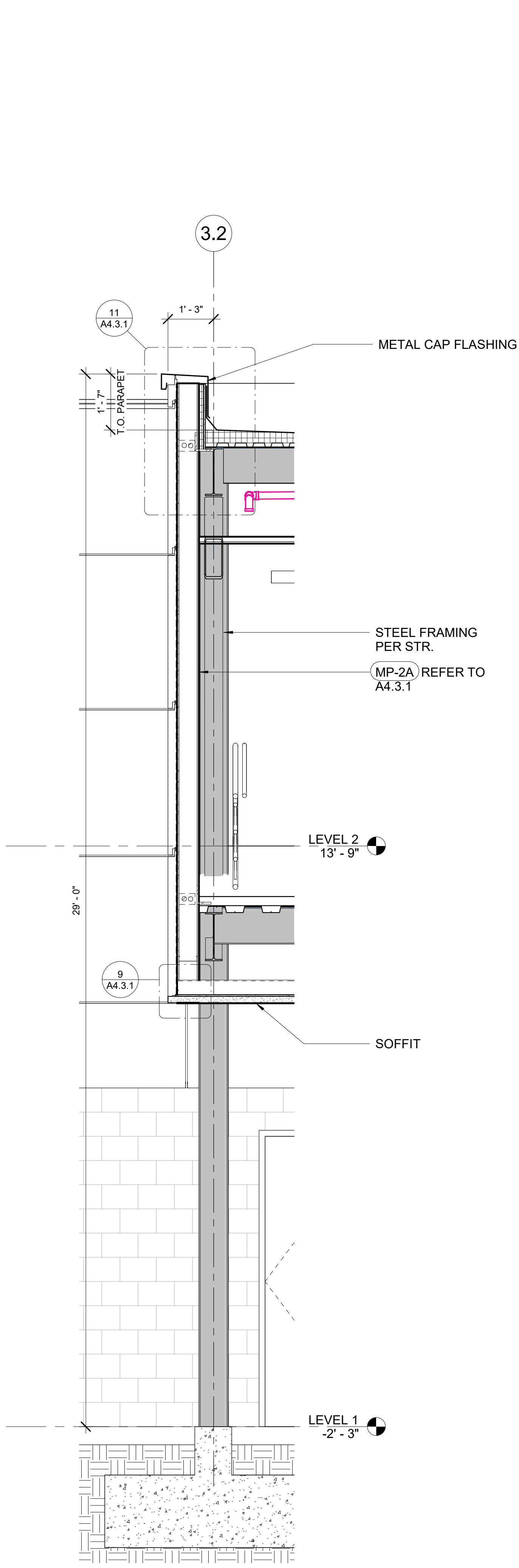
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FLOOR/SECTION PHASE DRAWING NO.

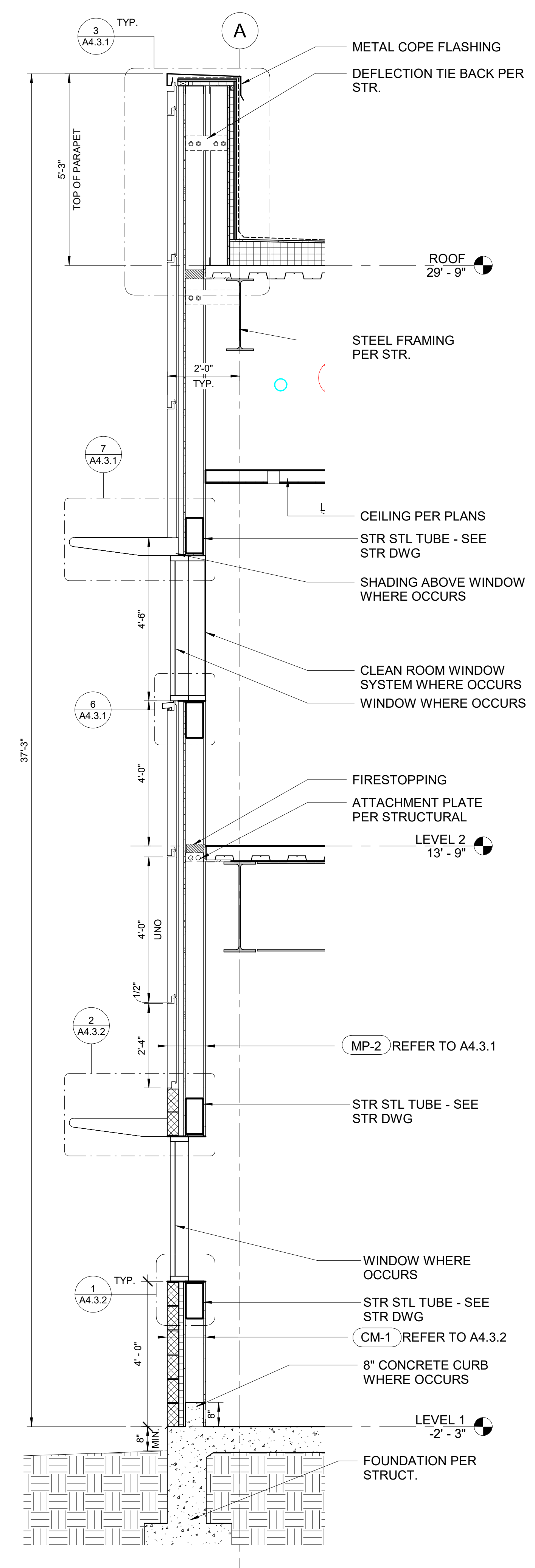
WALL SECTIONS

FLOOR/SECTION PHASE DRAWING NO.

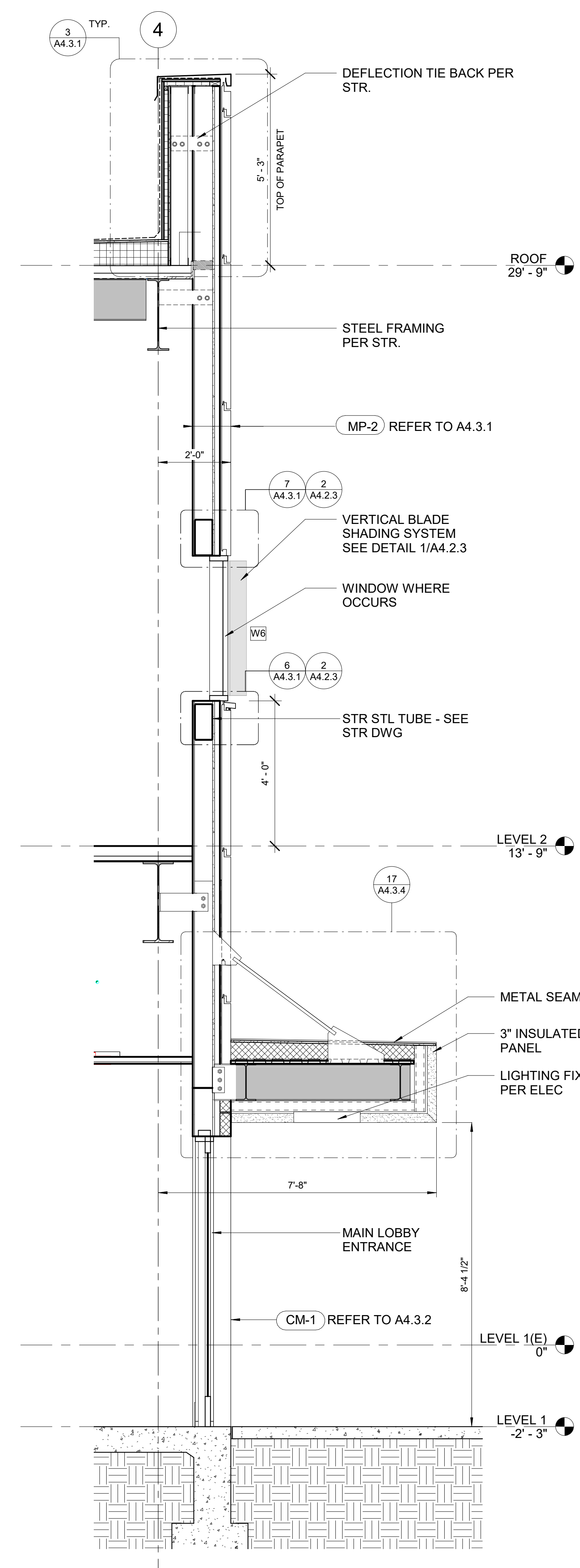
CD A3.5.1



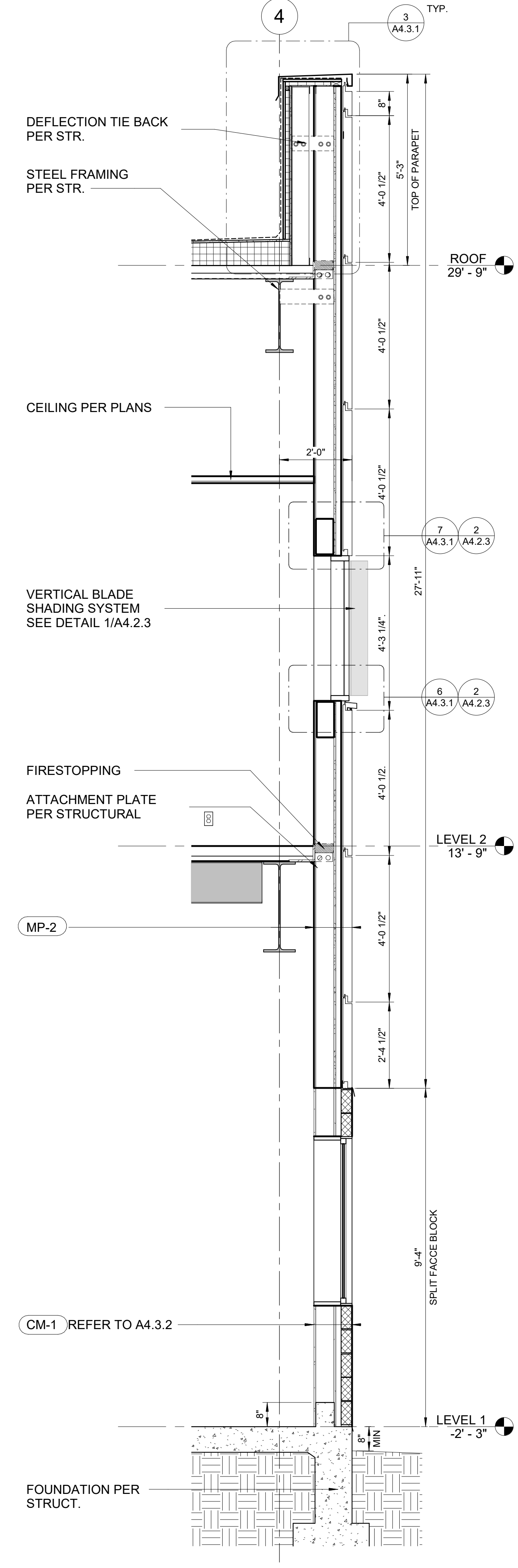
4 WALL SECTION AT CONNECTING BRIDGE
SCALE: 1/2" = 1'-0"



3 TYPICAL WALL SECTION AT SOUTH EXTERIOR WALL
SCALE: 1/2" = 1'-0"



2 WALL SECTION AT CANOPY
SCALE: 1/2" = 1'-0"



1 TYPICAL WALL SECTION
SCALE: 1/2" = 1'-0"

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KEY PLAN

PRINCIPAL
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STEPH VARGAS
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ROBERT MCCONNELL
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RICARDO MOLINA

REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D		ISSUED FOR OWNER'S REVIEW	10.11.2024
C		DESIGN DEVELOPMENT	09.25.2024
B		50% DD SET	05.24.2024
A		50% DD SET	05.10.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

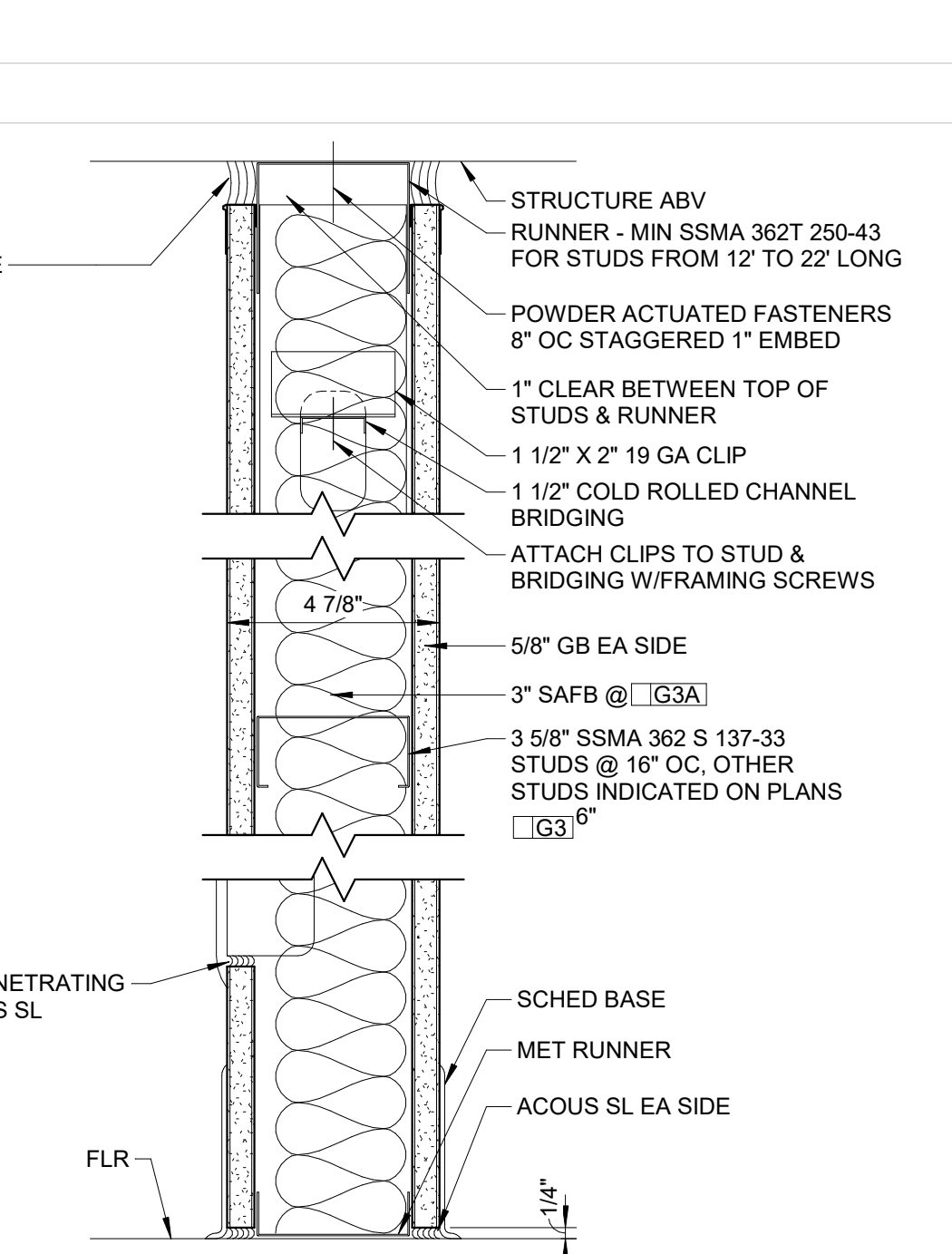
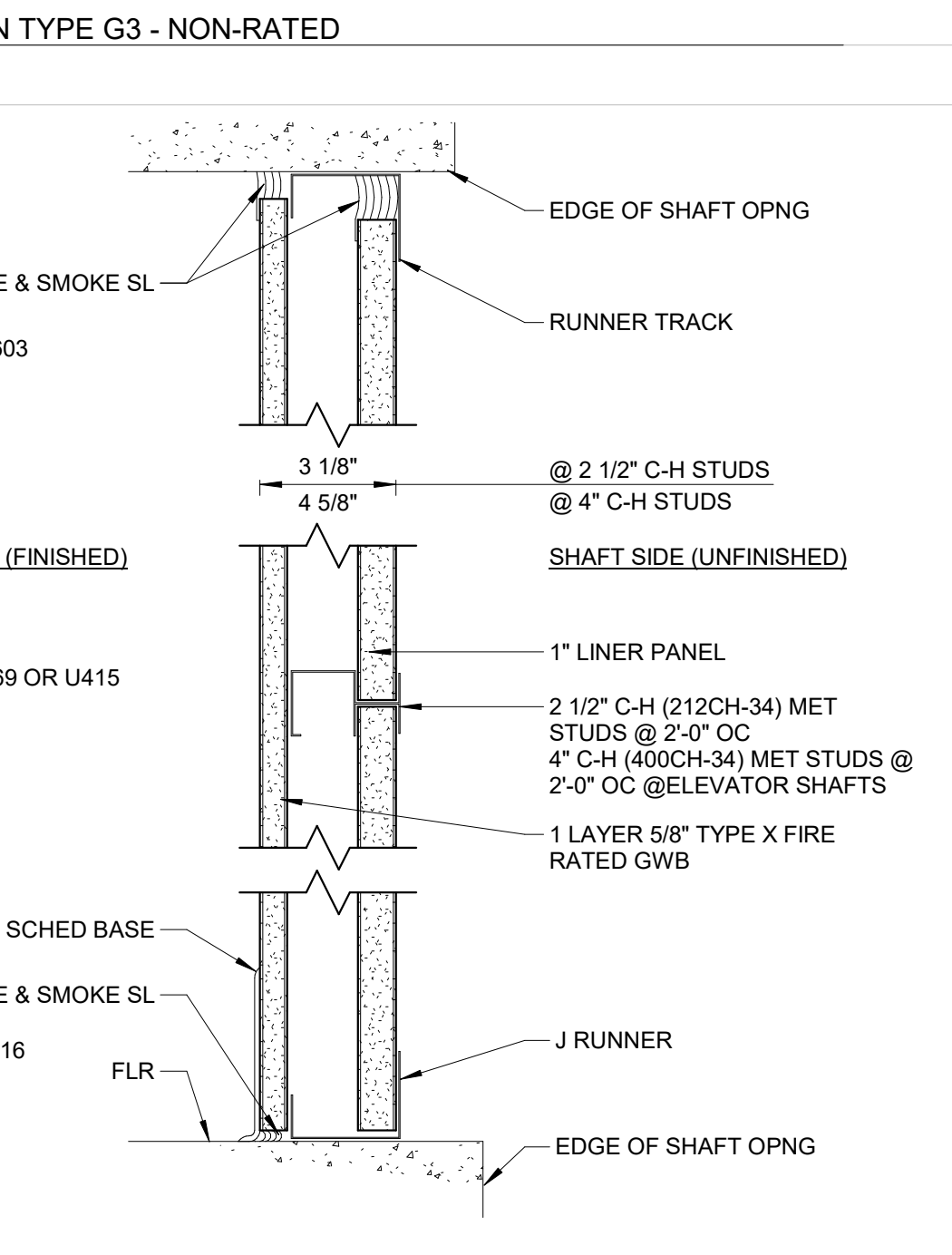
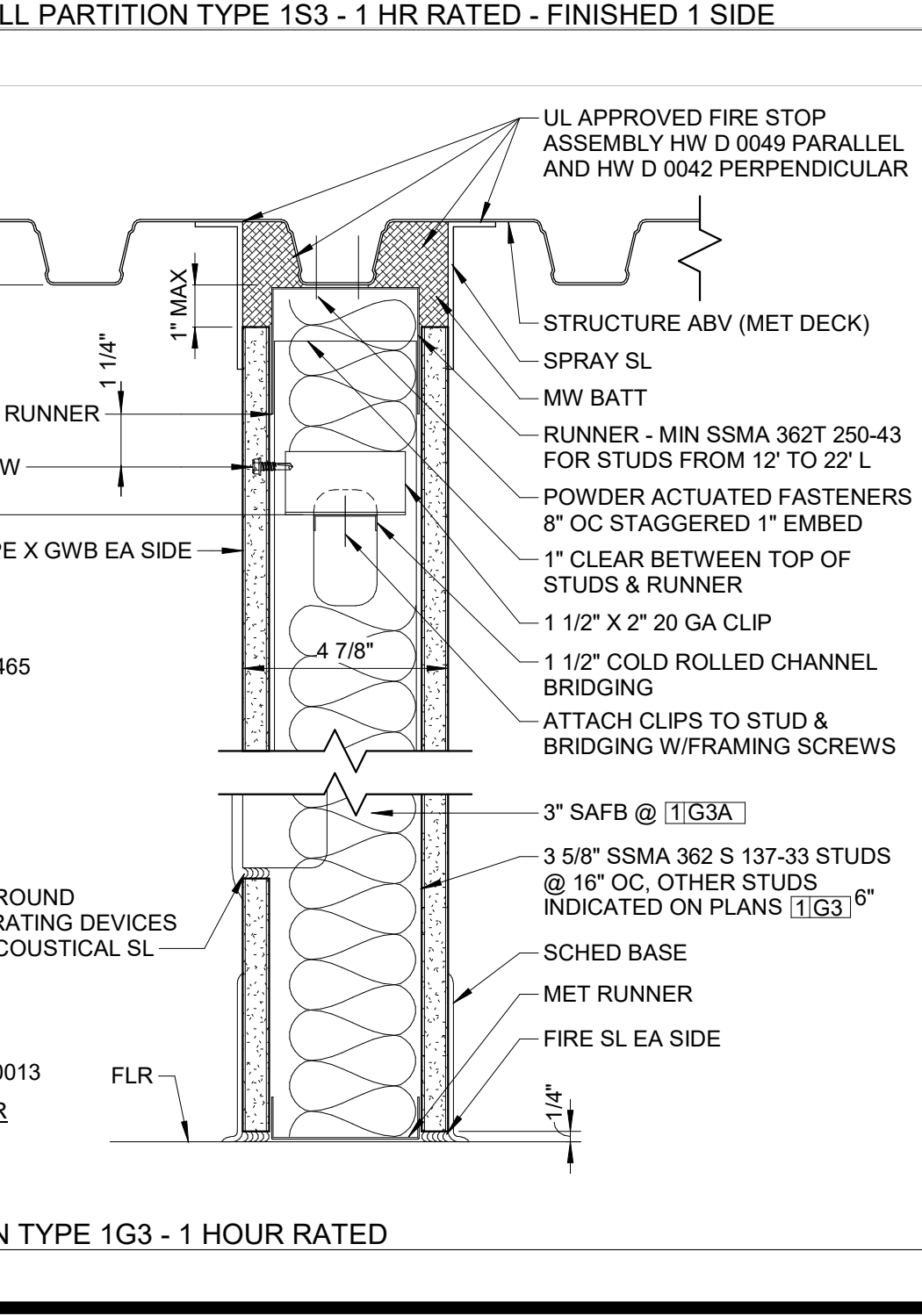
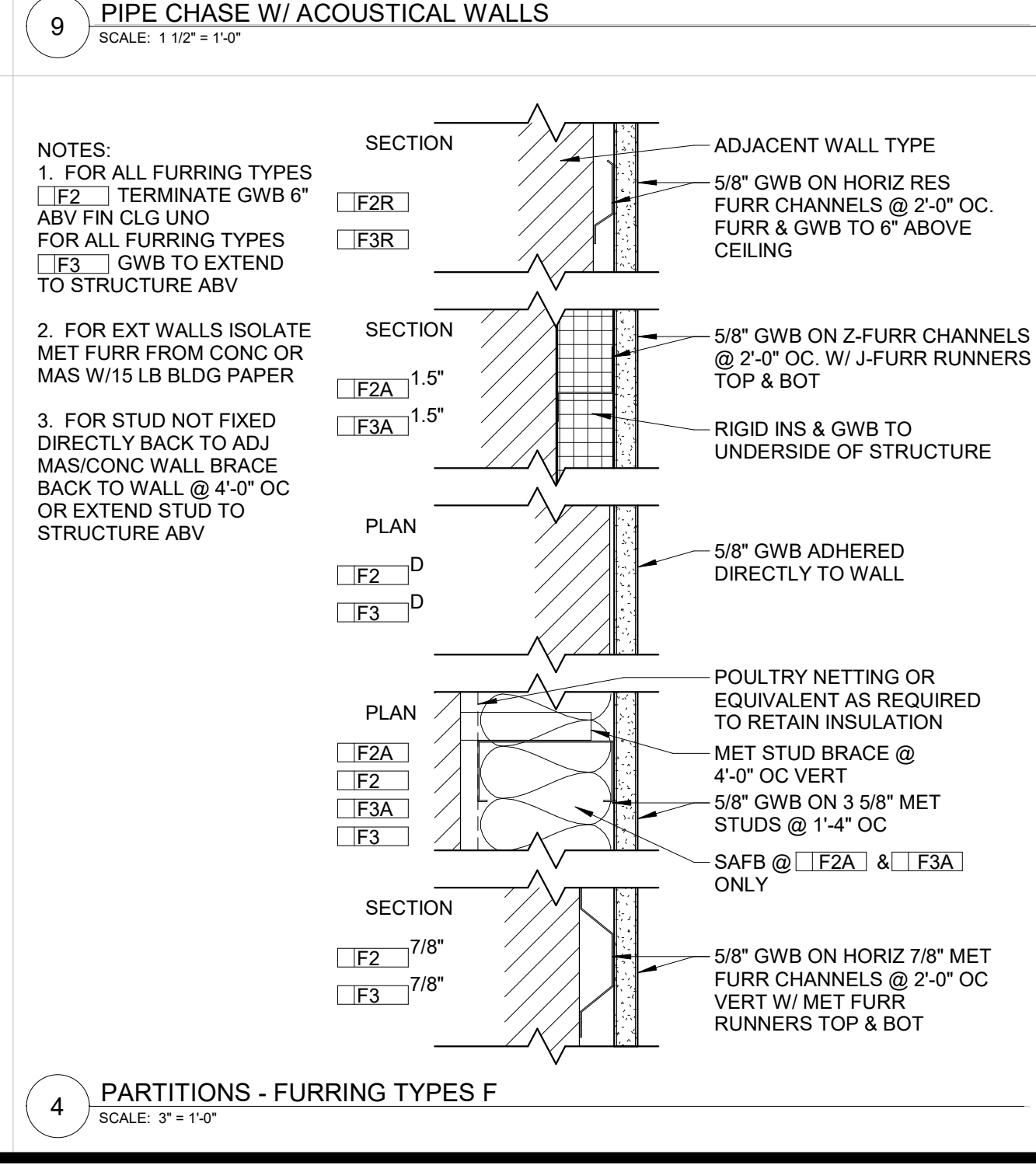
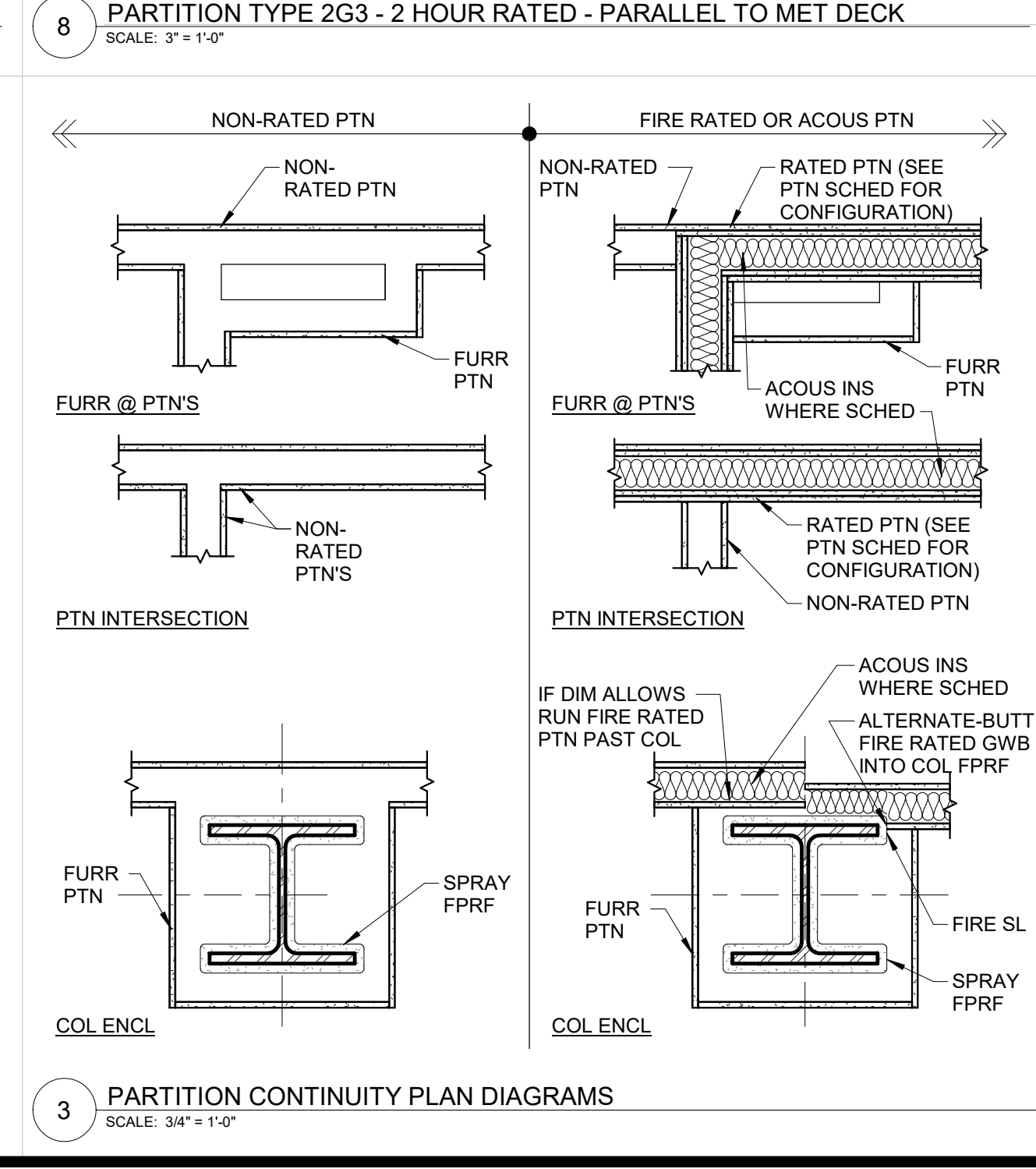
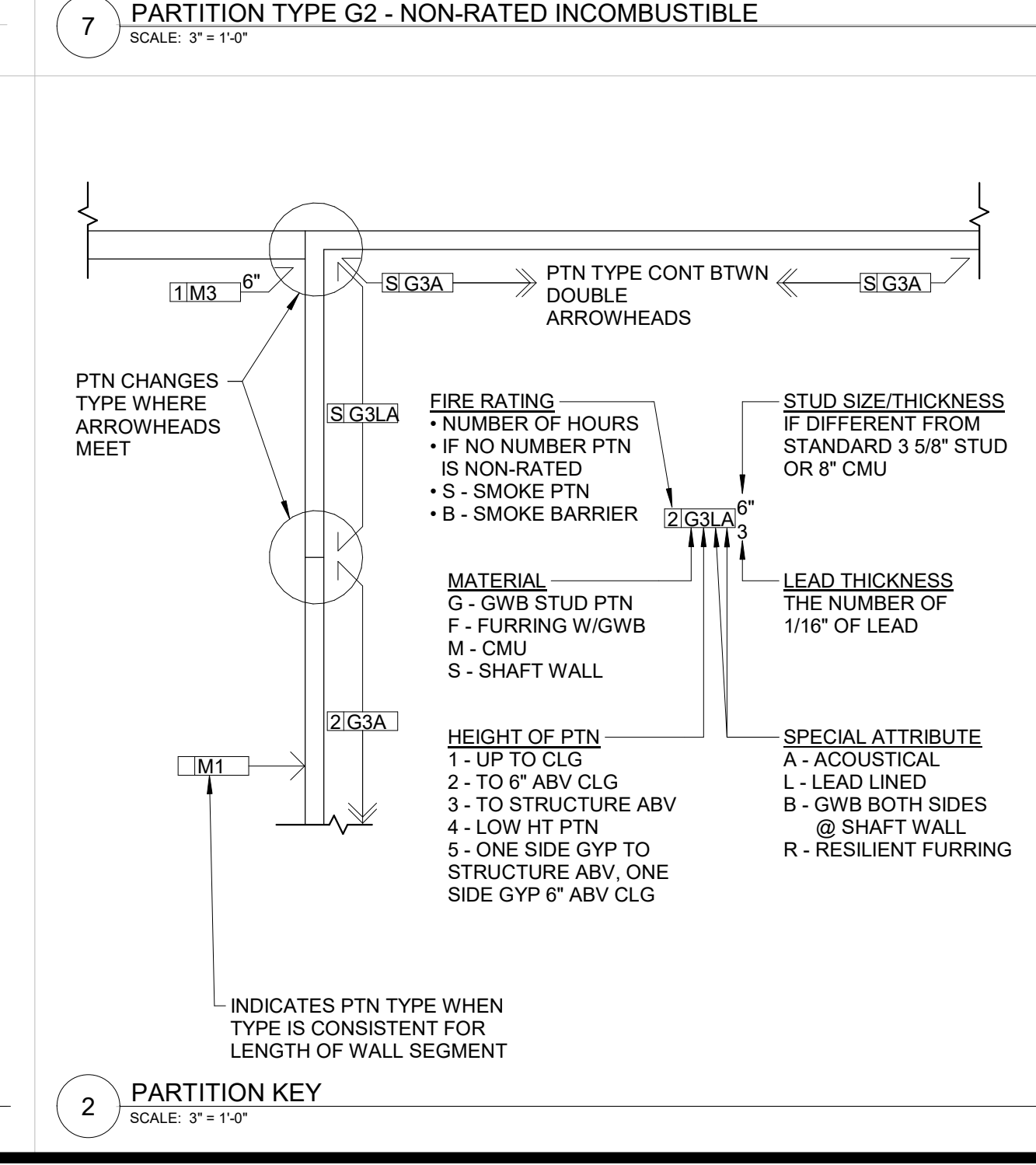
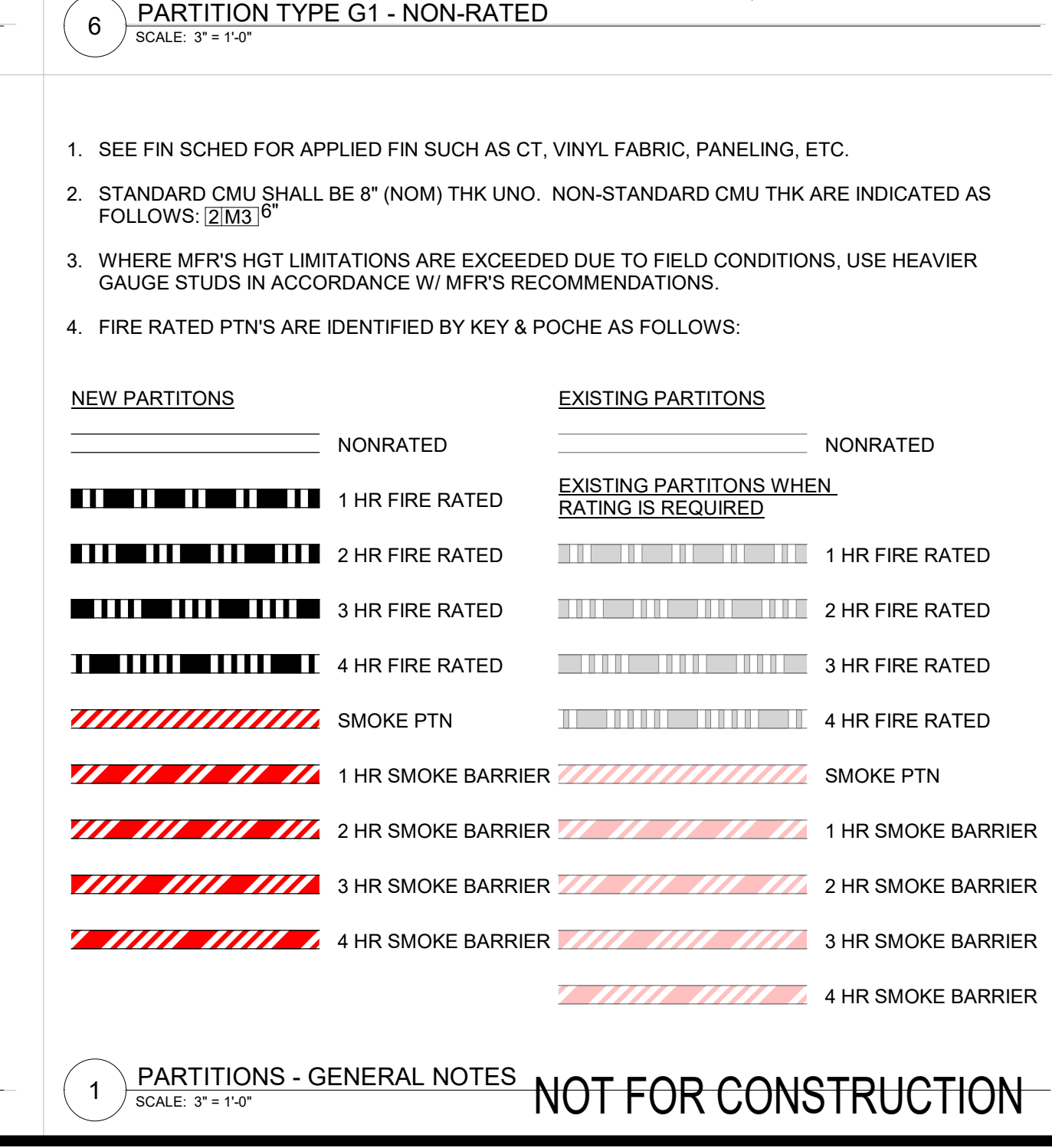
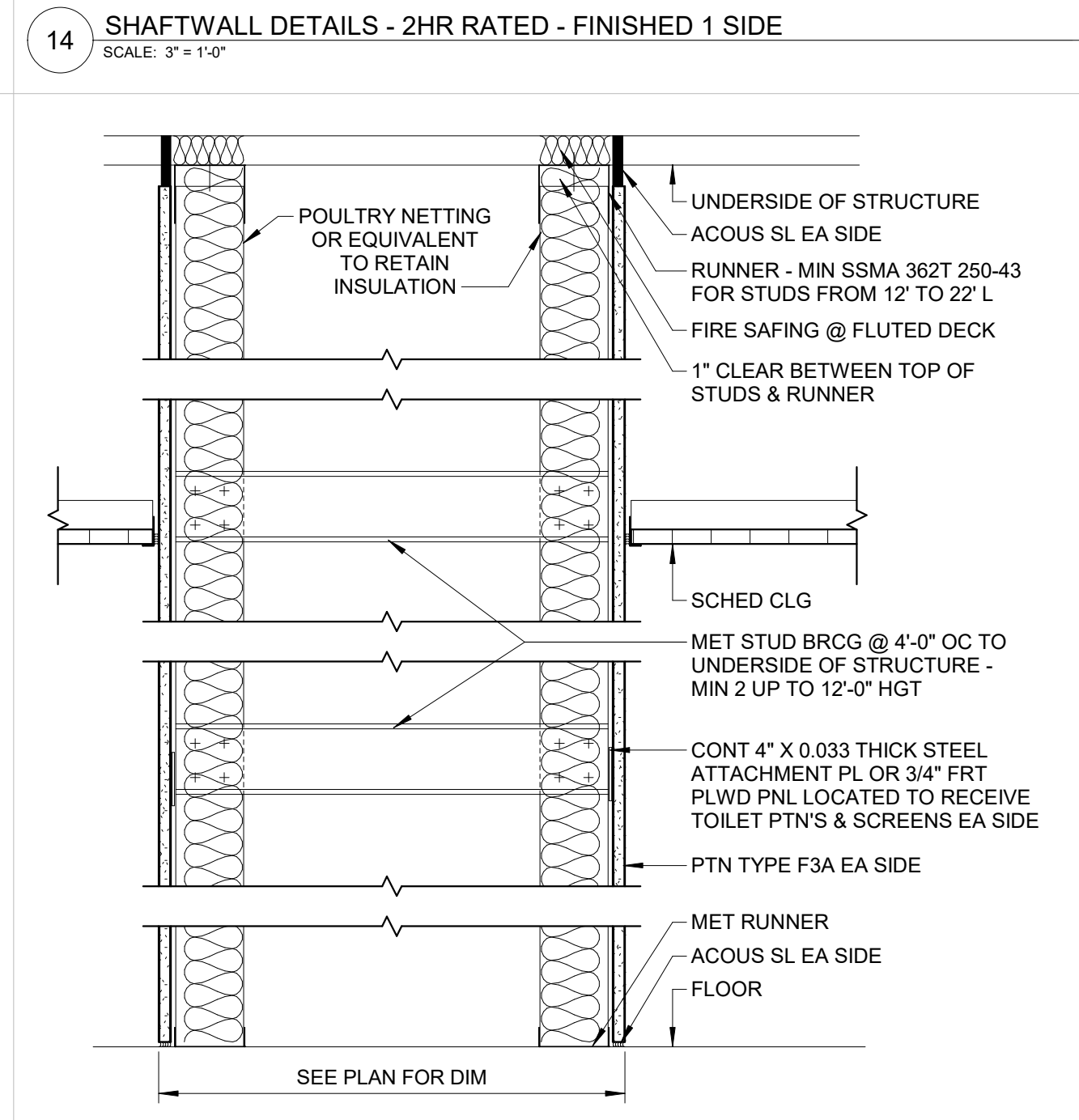
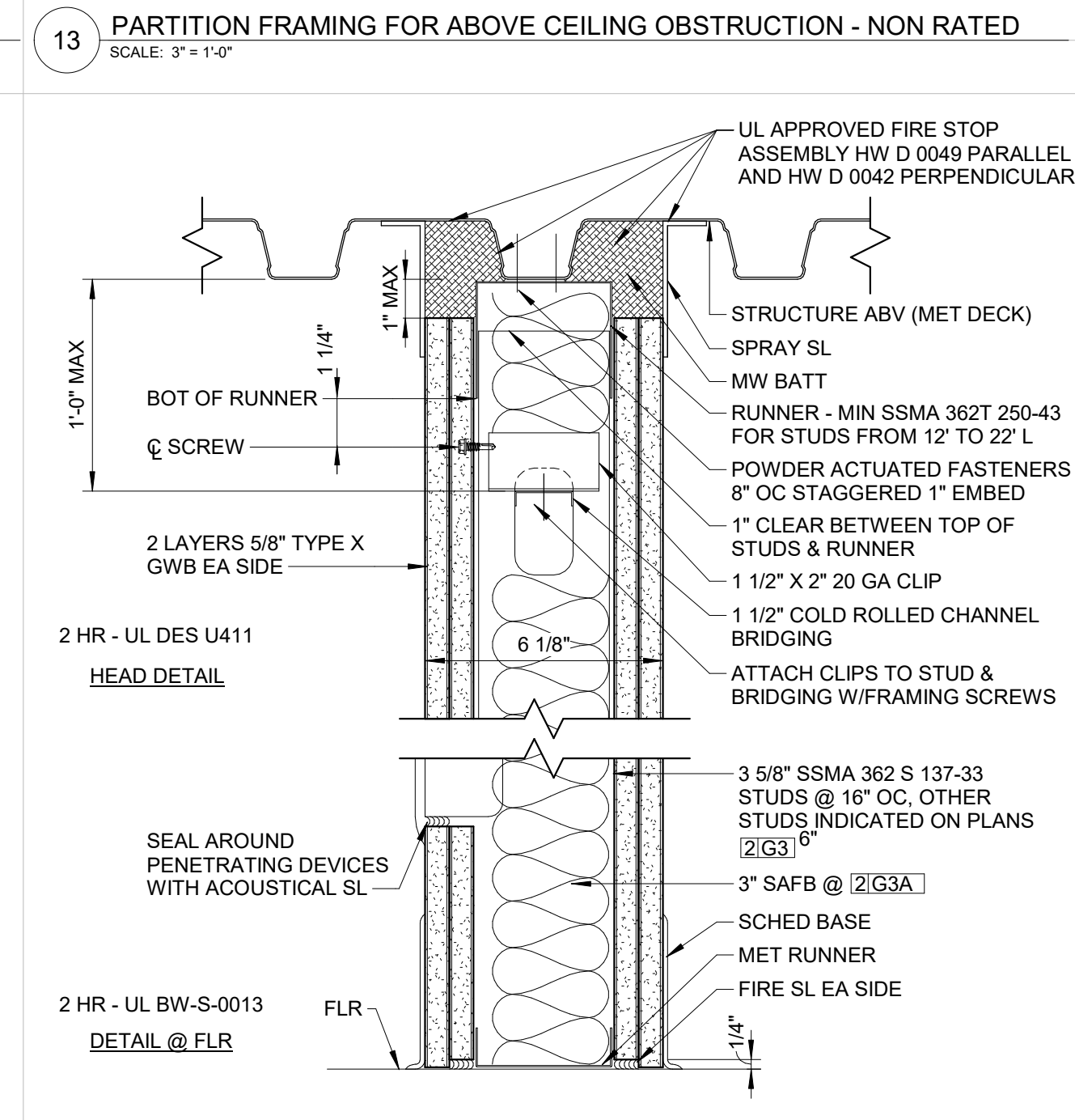
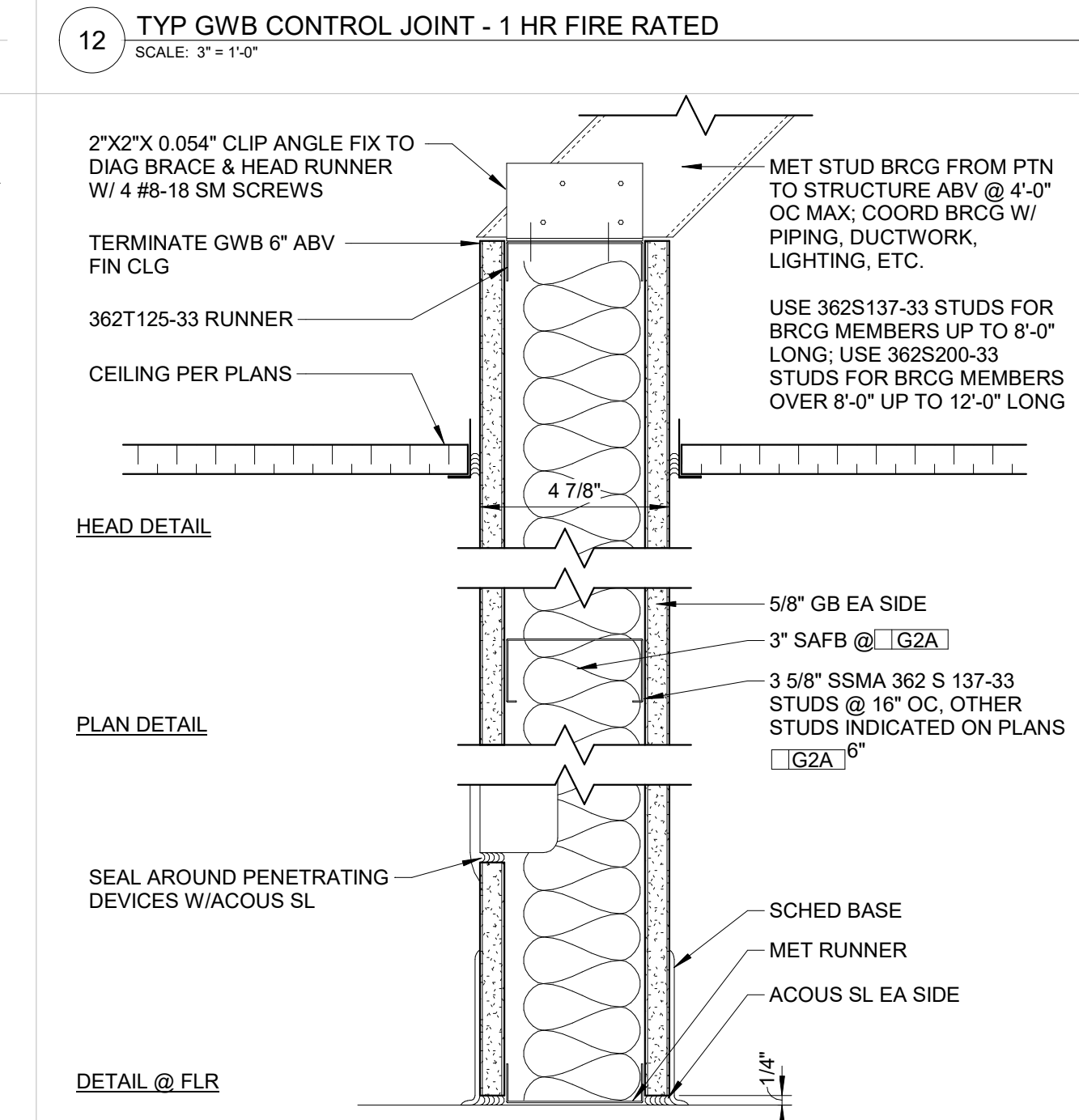
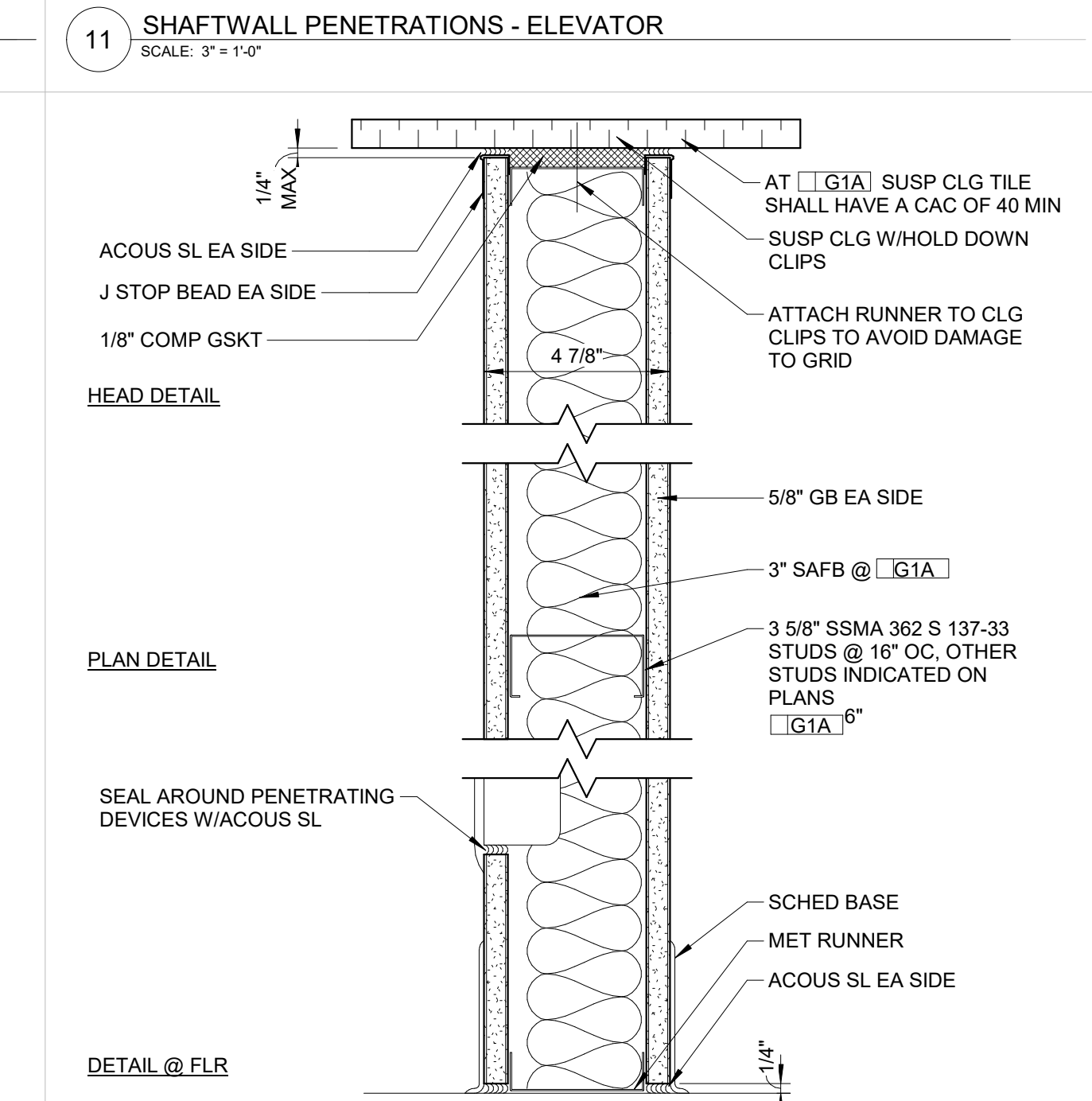
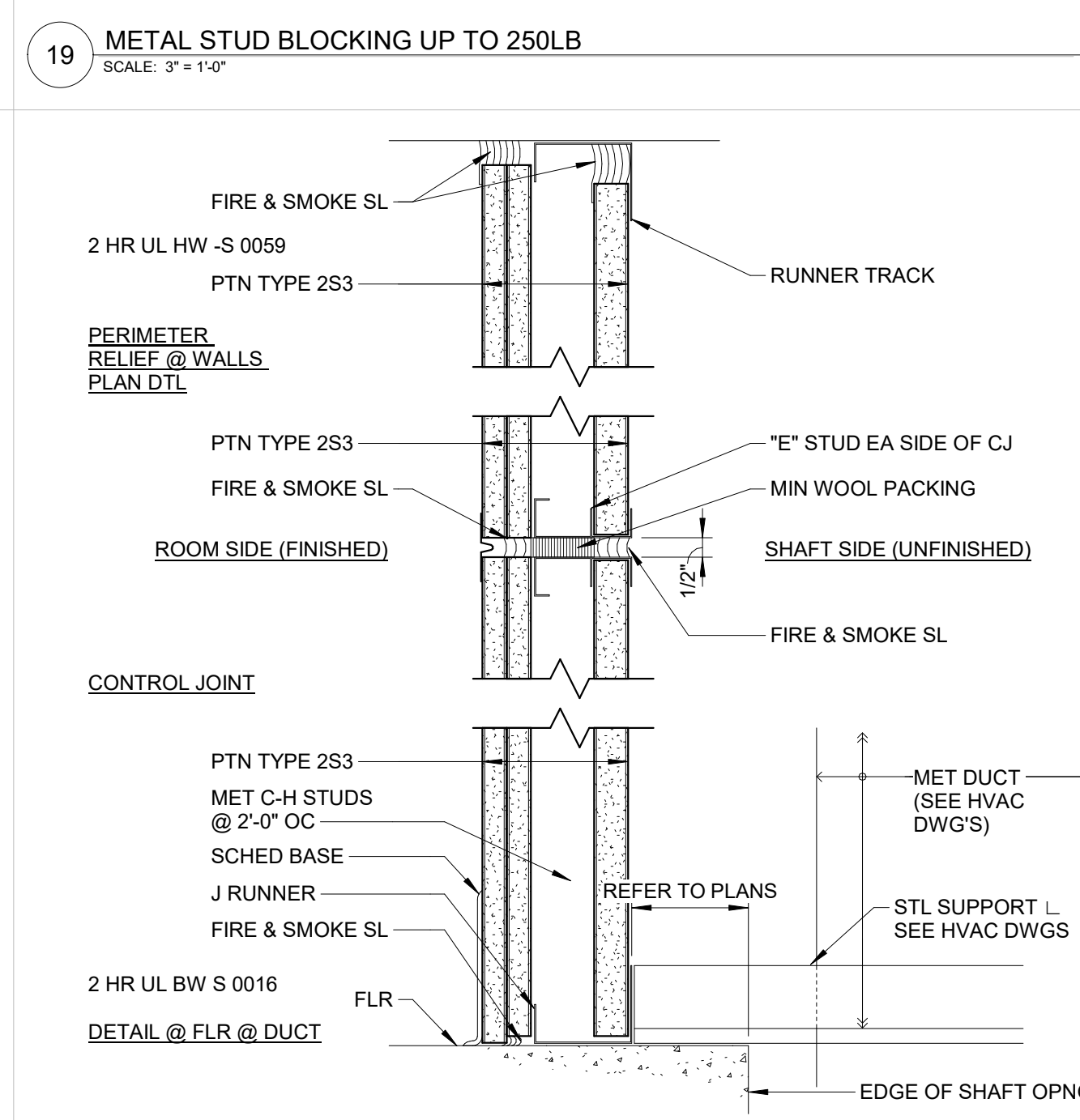
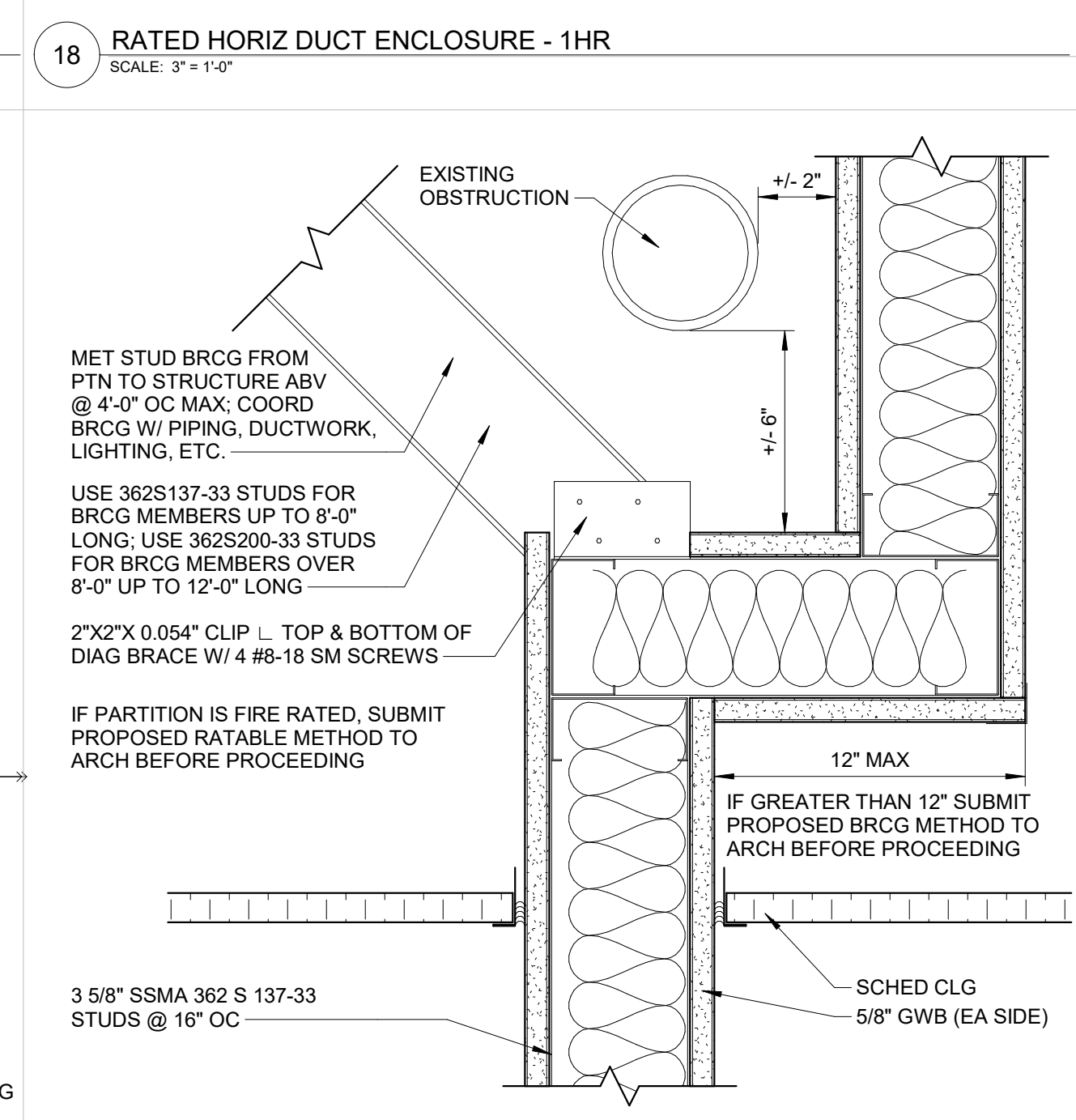
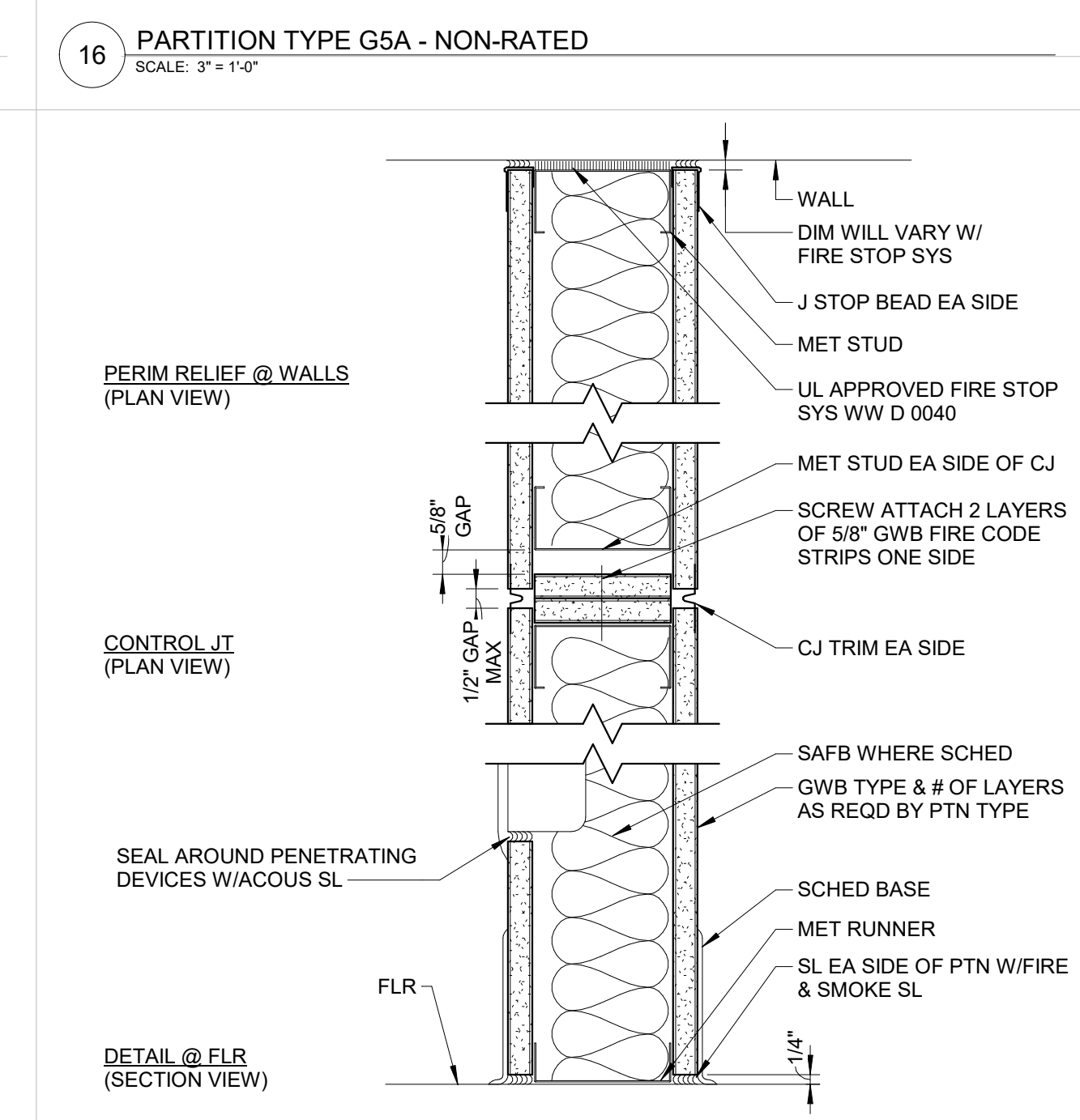
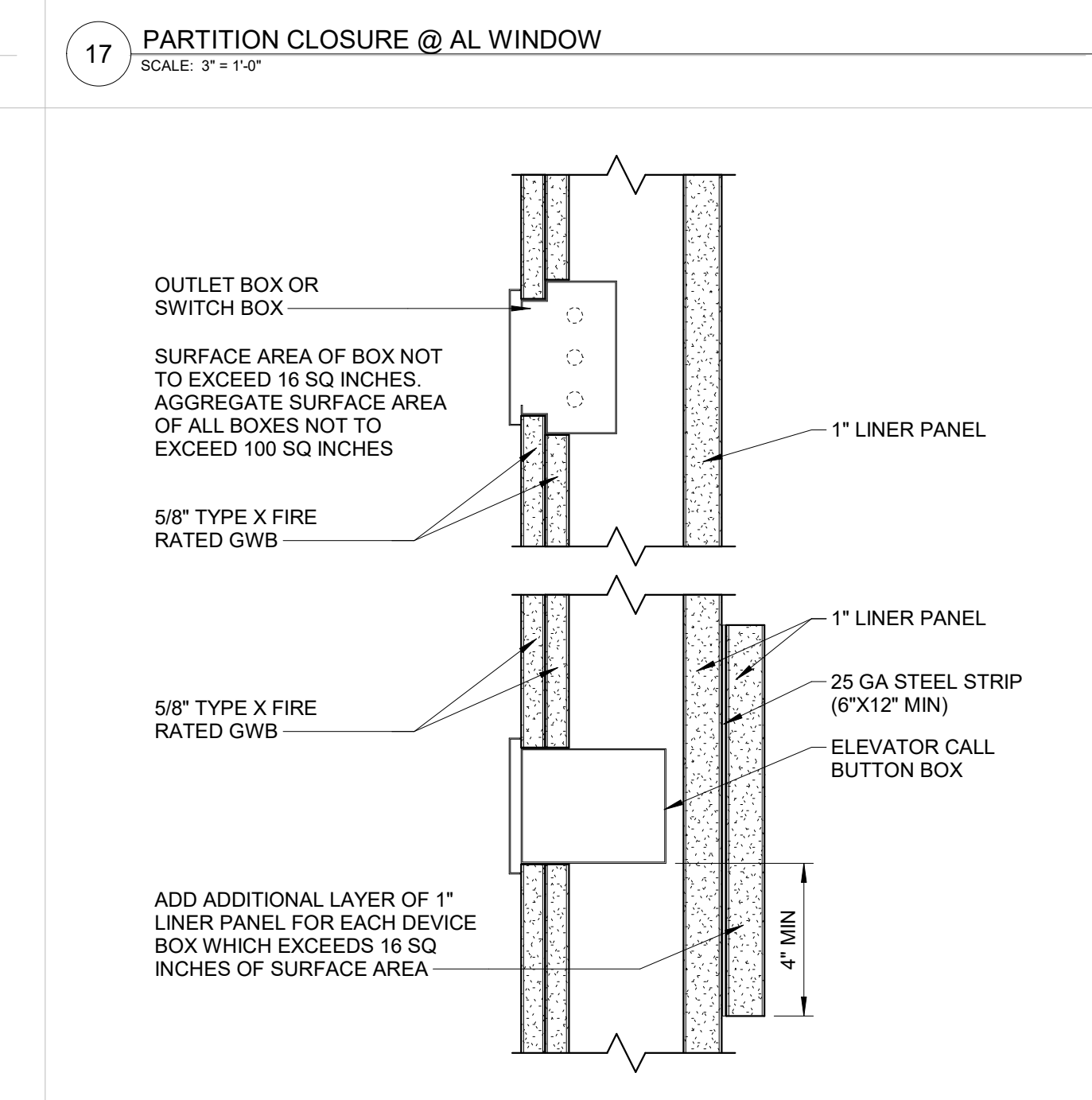
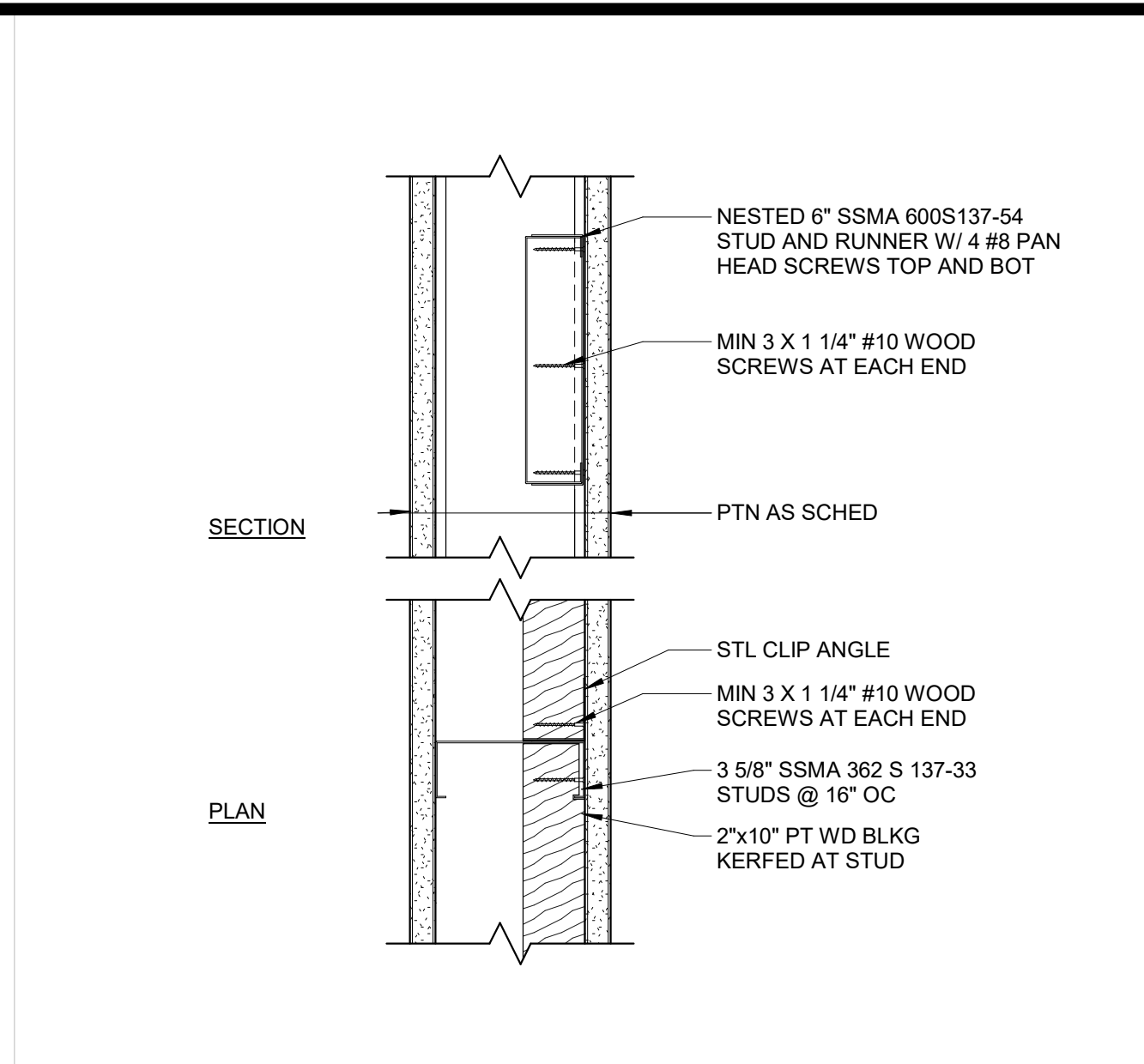
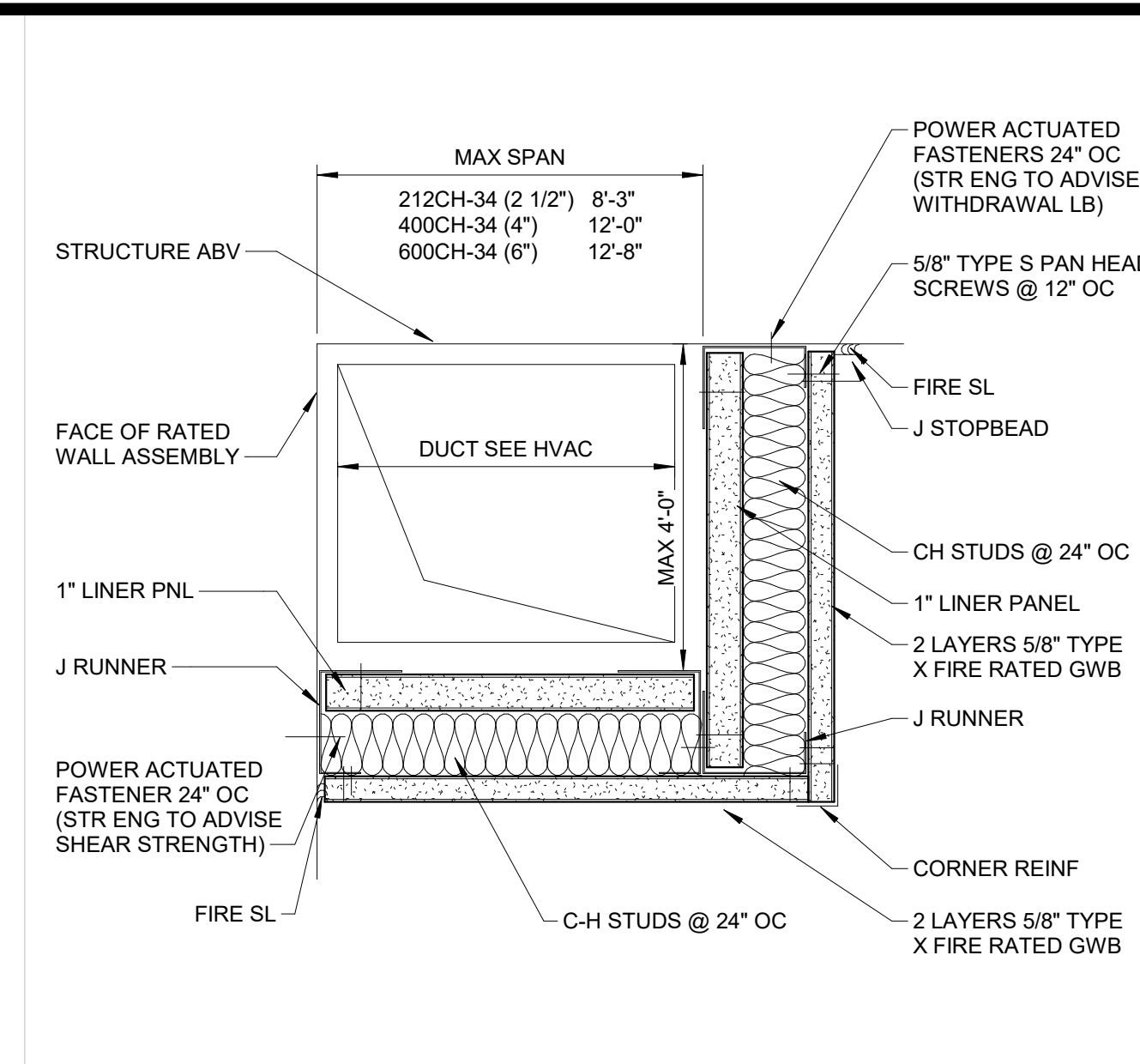
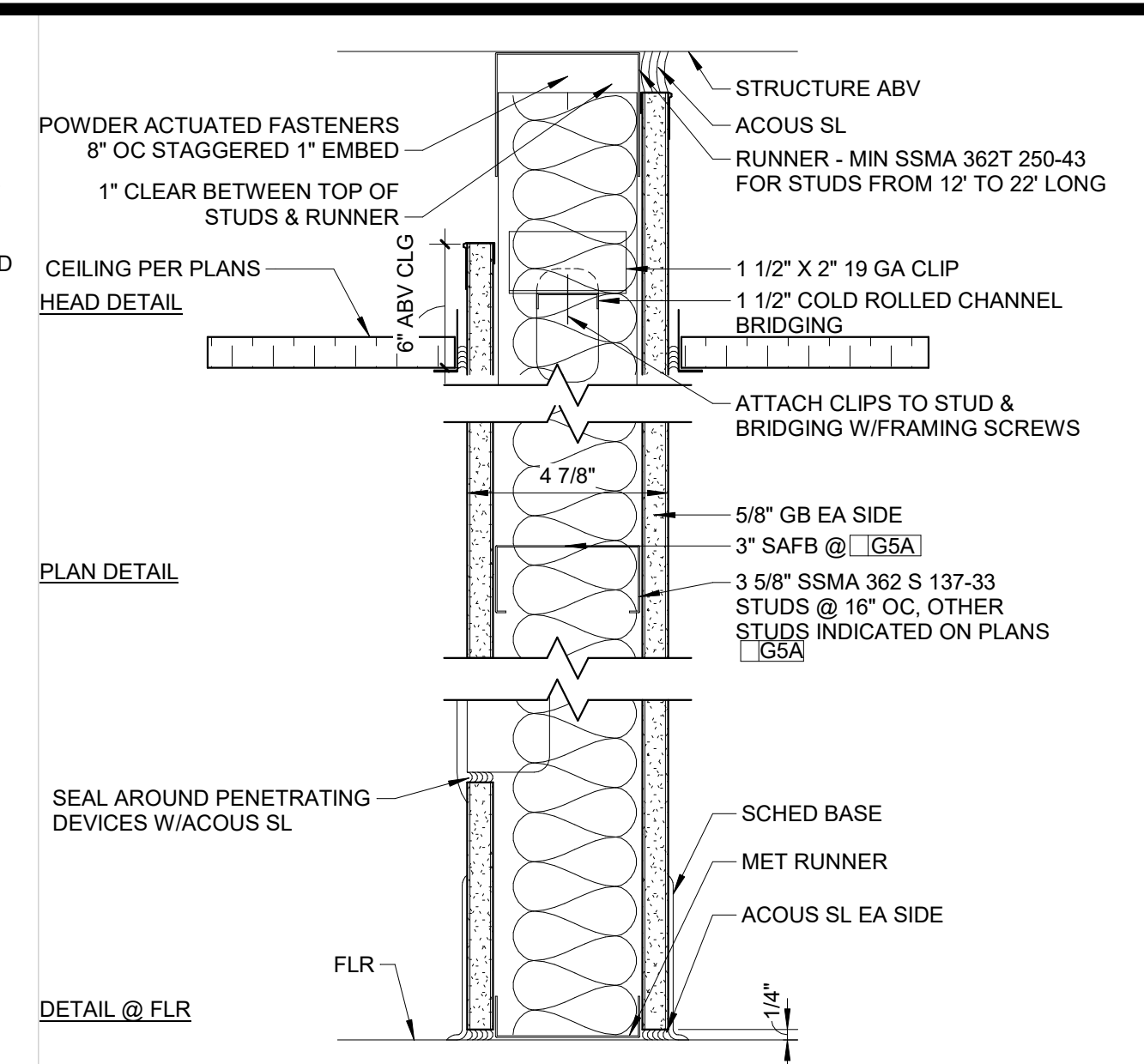
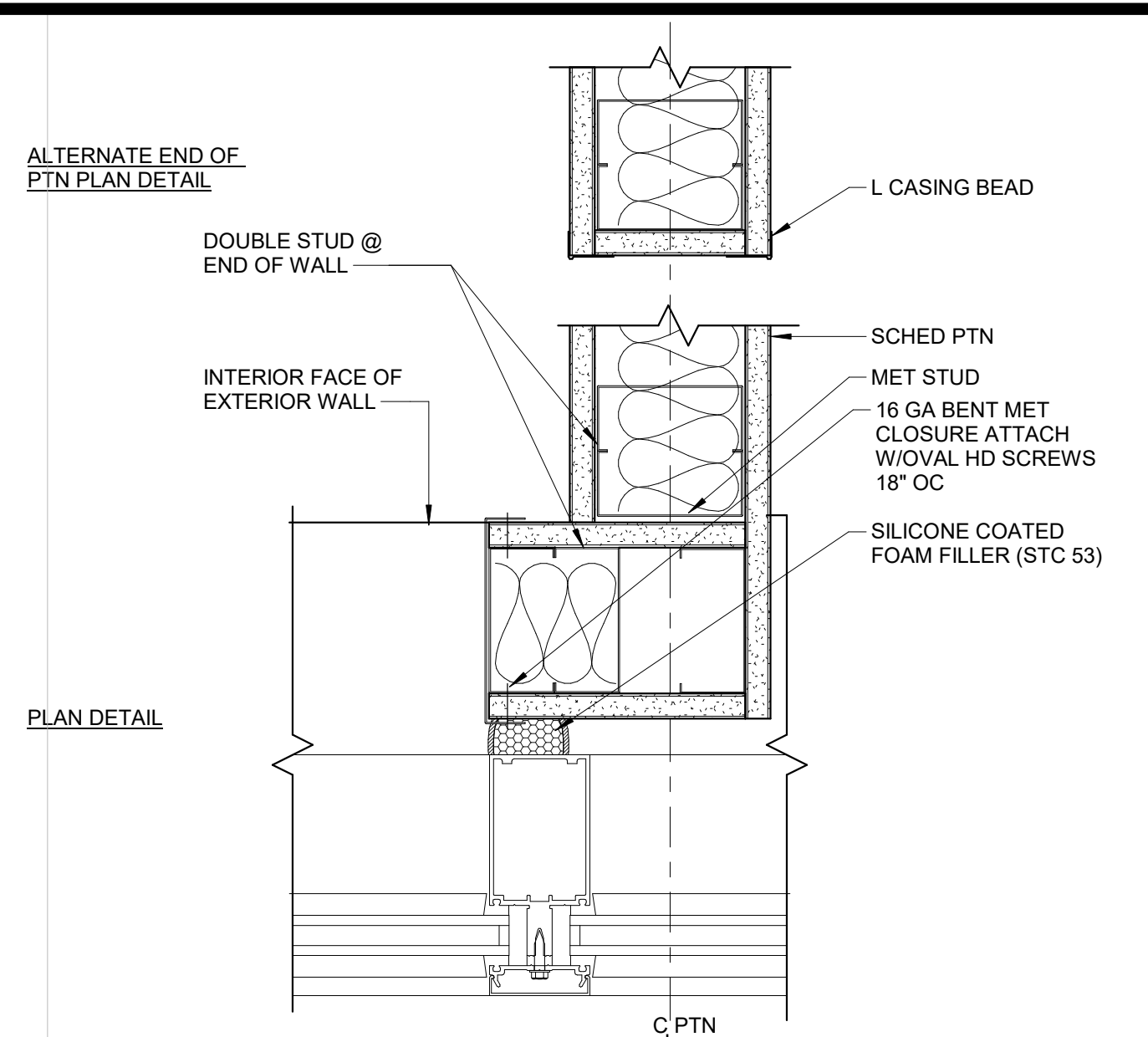
DRAWN BY RM DATE 11.08.2024

PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME PARTITION TYPES

FLOOR/SECTION PHASE DRAWING NO.

CD A4.1.1



11/8/2024 11:43:59 AM A:\work\Draws\20230523_Southern Nevada Health District MLK DS-3 LAR\20230523_A22_CENTRAL.rvt

NOT FOR CONSTRUCTION

DOOR SCHEDULE PHASE 1

Table with columns: NUMBER, LEAF A, LEAF B, DOOR SIZE (HEIGHT, TYPE, MATL, FACE, GLAZ, ATTRIBUTE), FRAME (TYPE, MATL, GLAZ), FIRE RATING, HW, P, S, F, Phase Created, REMARKS. Contains 100 door entries for Phase 1.

DOOR SCHEDULE PHASE 2

Table with columns: NUMBER, LEAF A, LEAF B, DOOR SIZE (HEIGHT, TYPE, MATL, FACE, GLAZ, ATTRIBUTE), FRAME (TYPE, MATL, GLAZ), FIRE RATING, HW, P, S, F, Phase Created, REMARKS. Contains 12 door entries for Phase 2.

KEY PLAN

PRINCIPAL: DAVID KEITH
RESEARCH PLANNER: STEPH VARGAS
ARCHITECT: ROBERT MCCONNELL
ARCHITECTURAL DESIGNER: RICARDO MOLINA

REVISIONS

Table with columns: NO., BY, DESCRIPTION, DATE. Includes revision history for the drawing.

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY: RM DATE: 11.08.2024

PROJECT NO.: 20230523 SCALE: 1/4" = 1'-0"

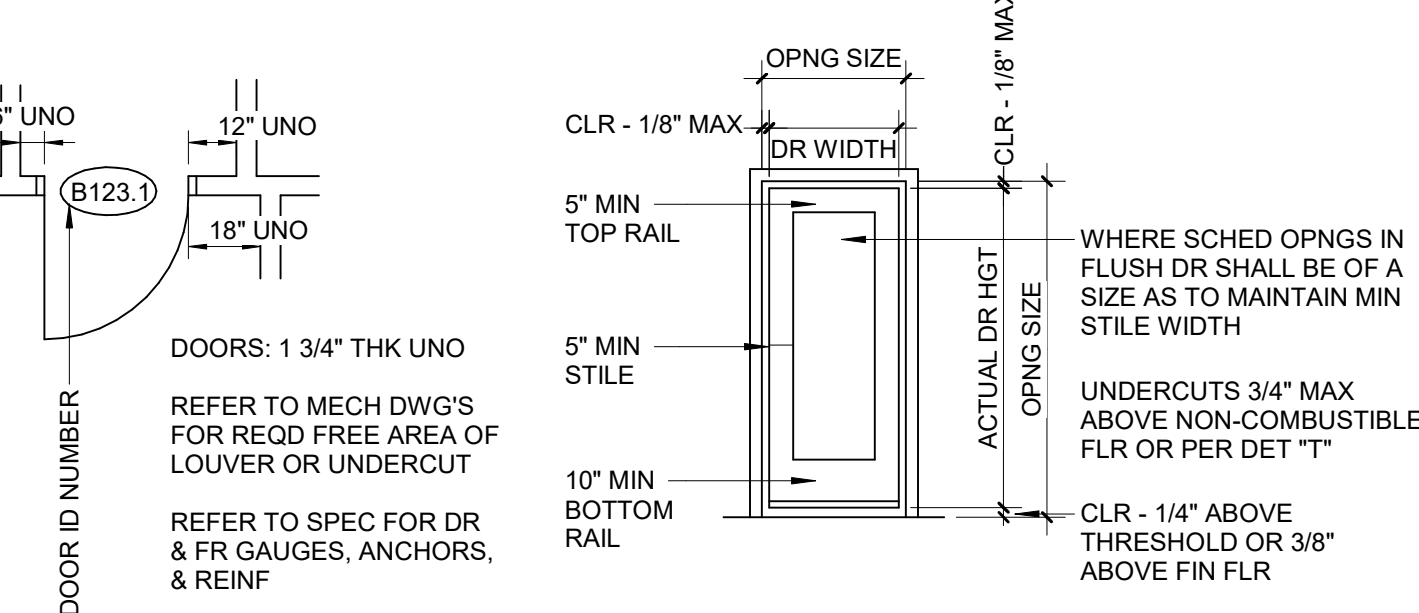
DRAWING NAME: DOOR SCHEDULES & DETAILS

FLOOR/SECTION PHASE: DRAWING NO.:

NOT FOR CONSTRUCTION

CD A4.2.1

GENERAL DOOR DEFINITIONS

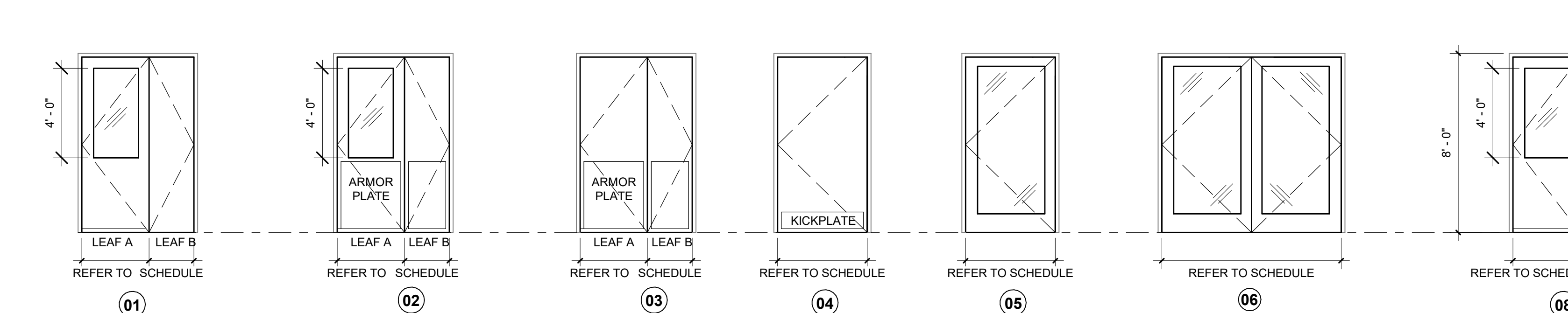


NOTE: DOOR TYPE NUMBERS, FRAME TYPES, AND HARDWARE NUMBERS MAY NOT BE CONSECUTIVE... DOOR SCHEDULE LEGEND: GLAZING (FG, FP, FR, LG, TG, WG, PC), ELECTRICAL (P, S, F, X)

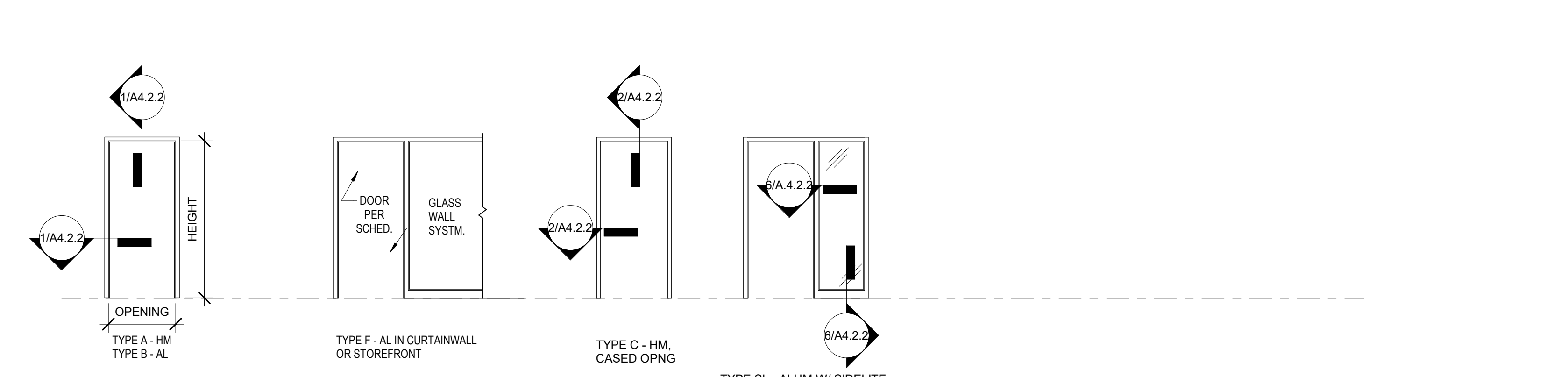
DOOR FINISHES

GLAZING: TG (TEMPERED GLASS) ALL GLAZING SHALL BE TEMPERED UNO
DOOR MATERIAL: WD (WOOD); HM (HOLLOW METAL); AL (ALUMINUM); MET (METAL); WR (WIRE CAGE); FRP (FIBERGLASS); FAB (FABRIC)
ATTRIBUTE: PNL (PANELED); PTCH (PATCH FITTINGS); T&B (TOP & BOTTOM RAILS)
FACE: PTD (PAINTED); PF (PRE-FINISHED); PLAM (PLASTIC LAMINATE); CUSTOM

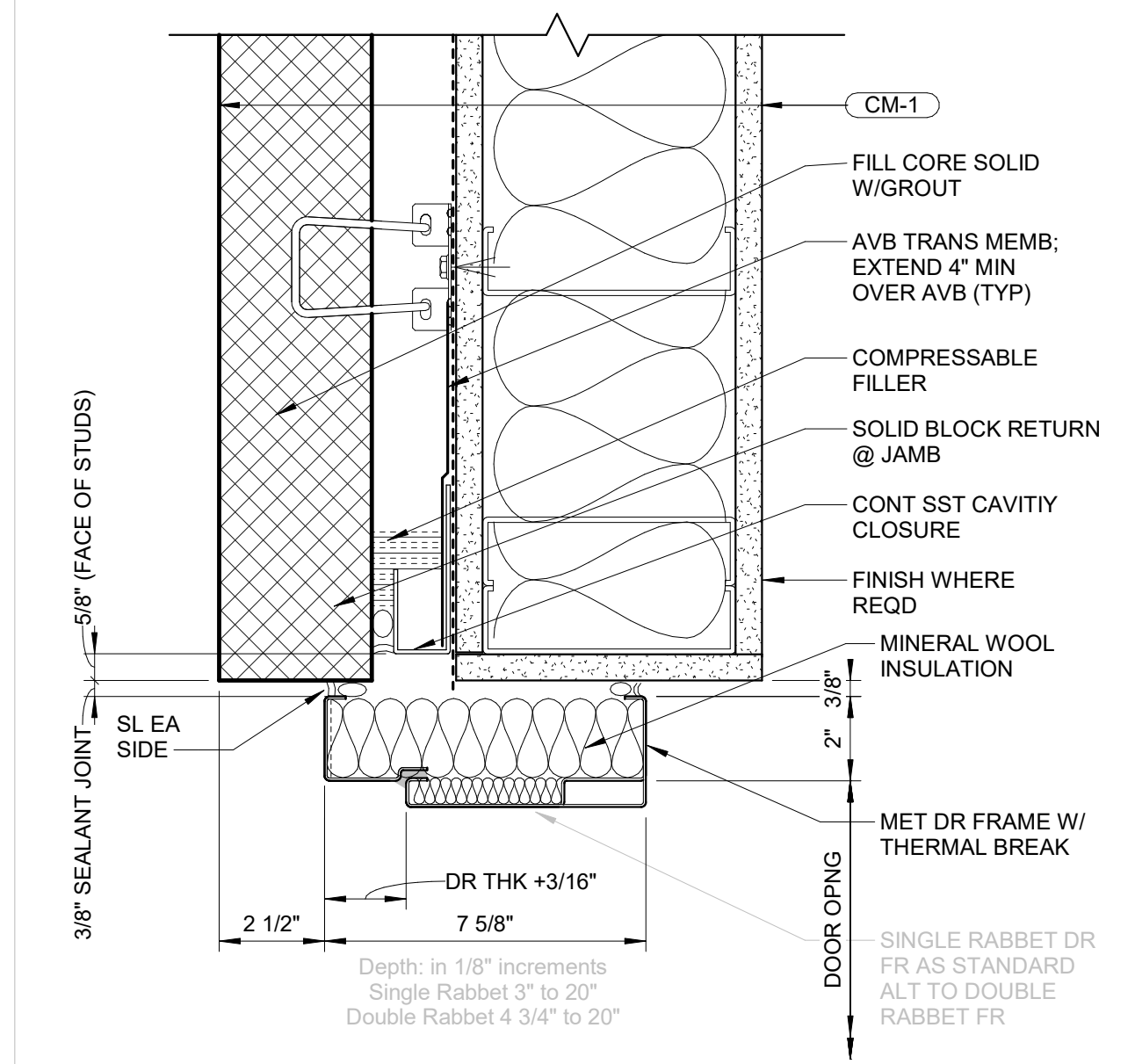
DOOR TYPES



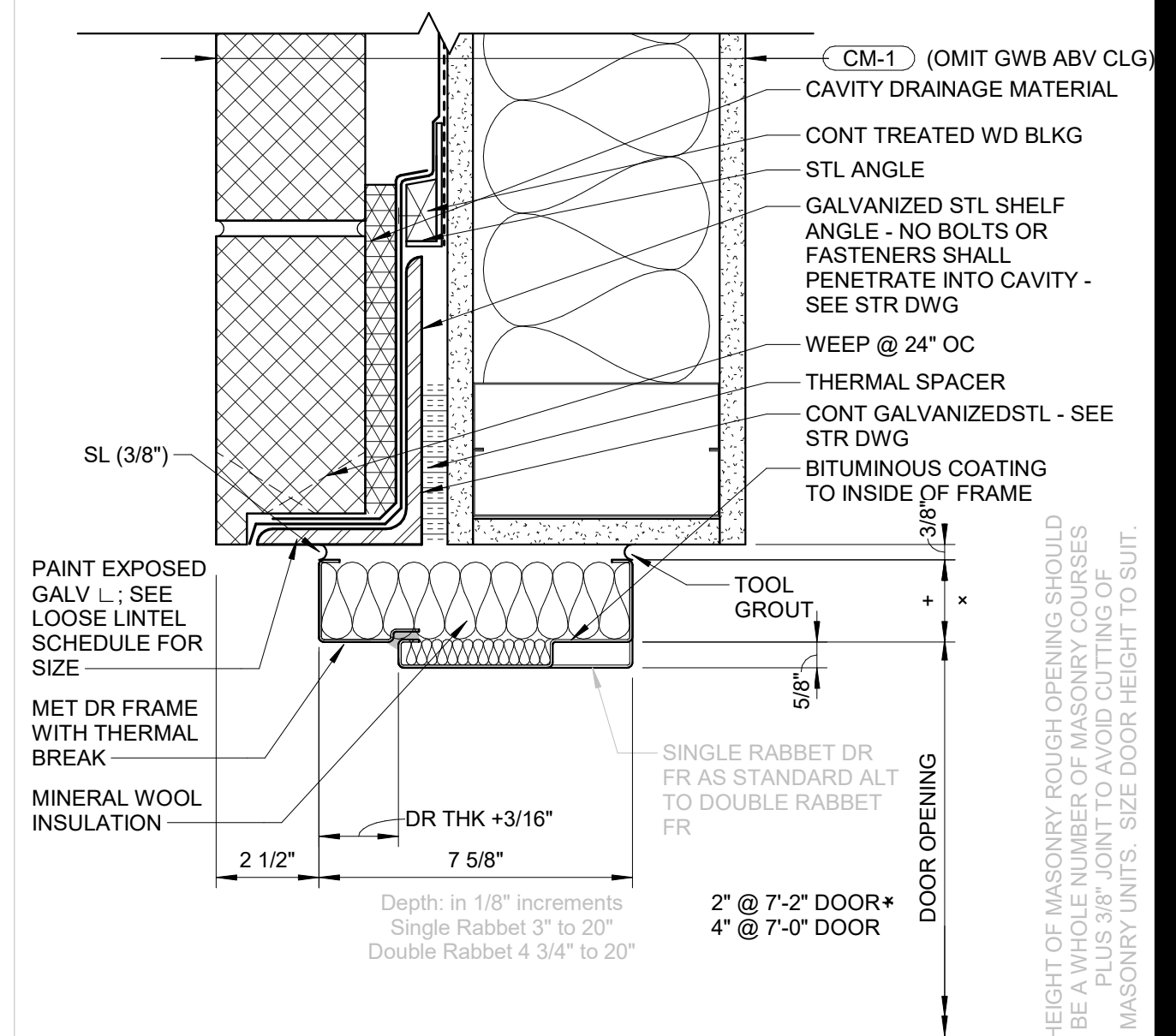
DOOR FRAME TYPES



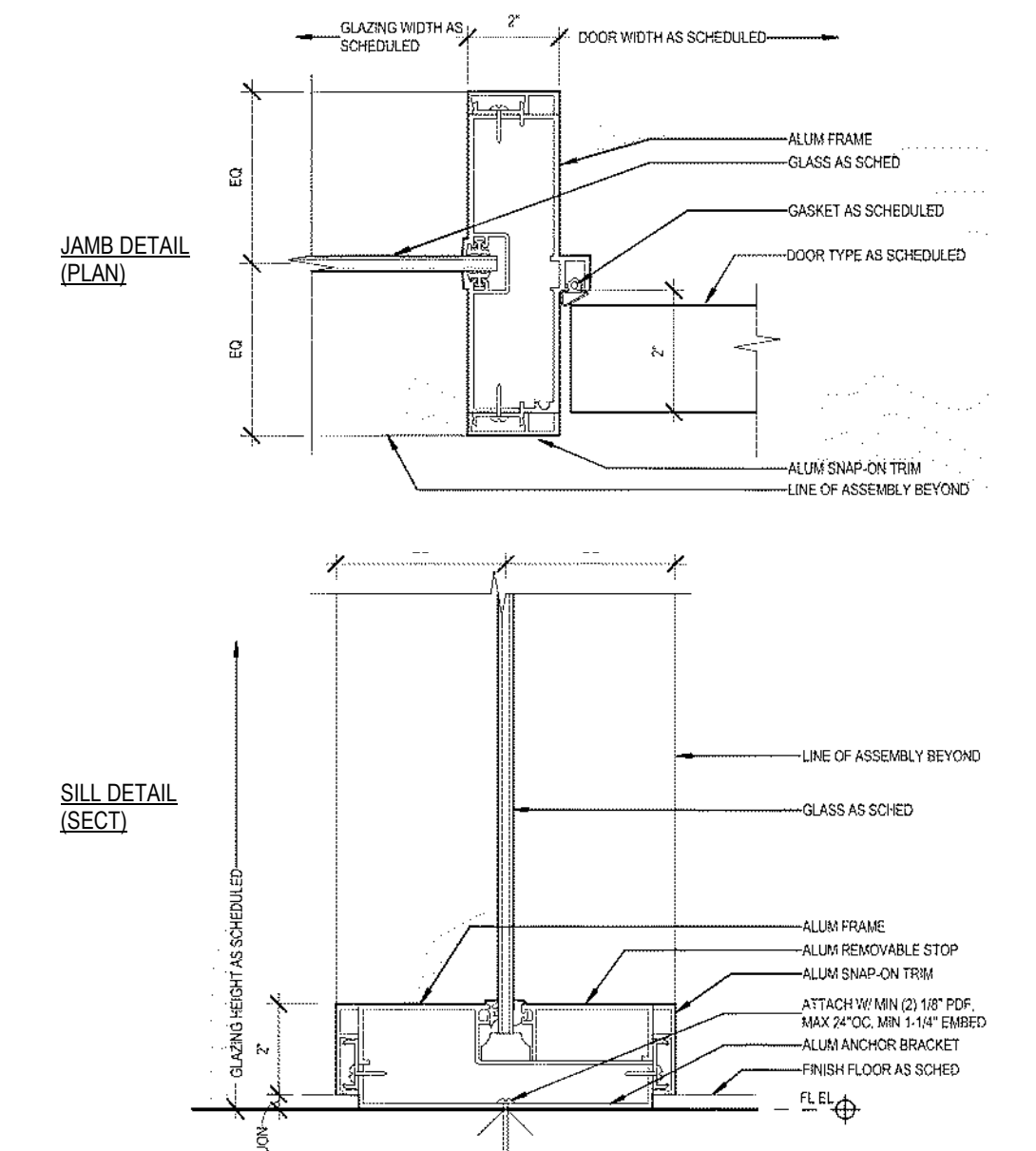
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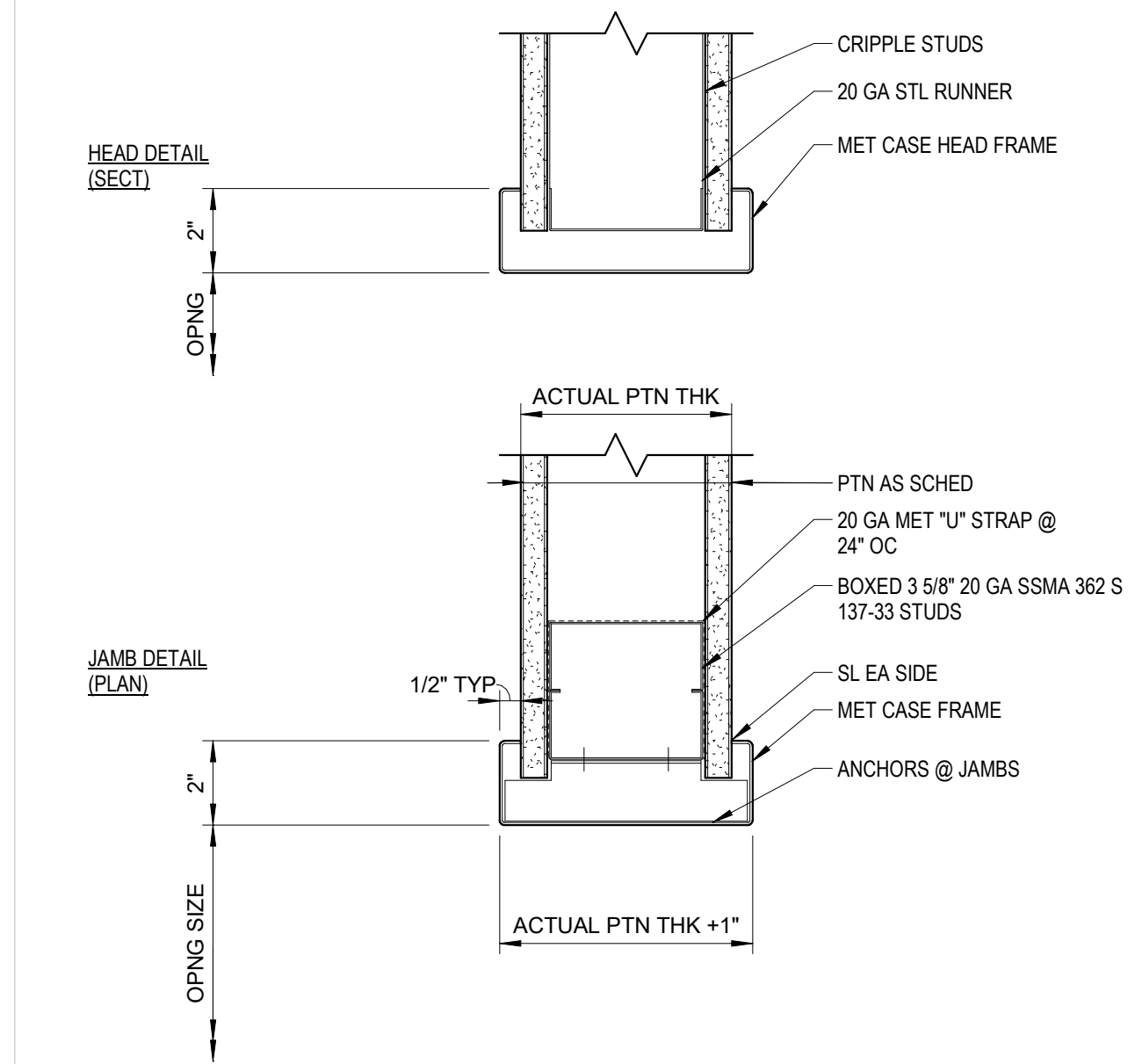
4 HM FRAME IN EXTERIOR MASONRY CAVITY WALL - JAMB
SCALE: 3" = 1'-0"



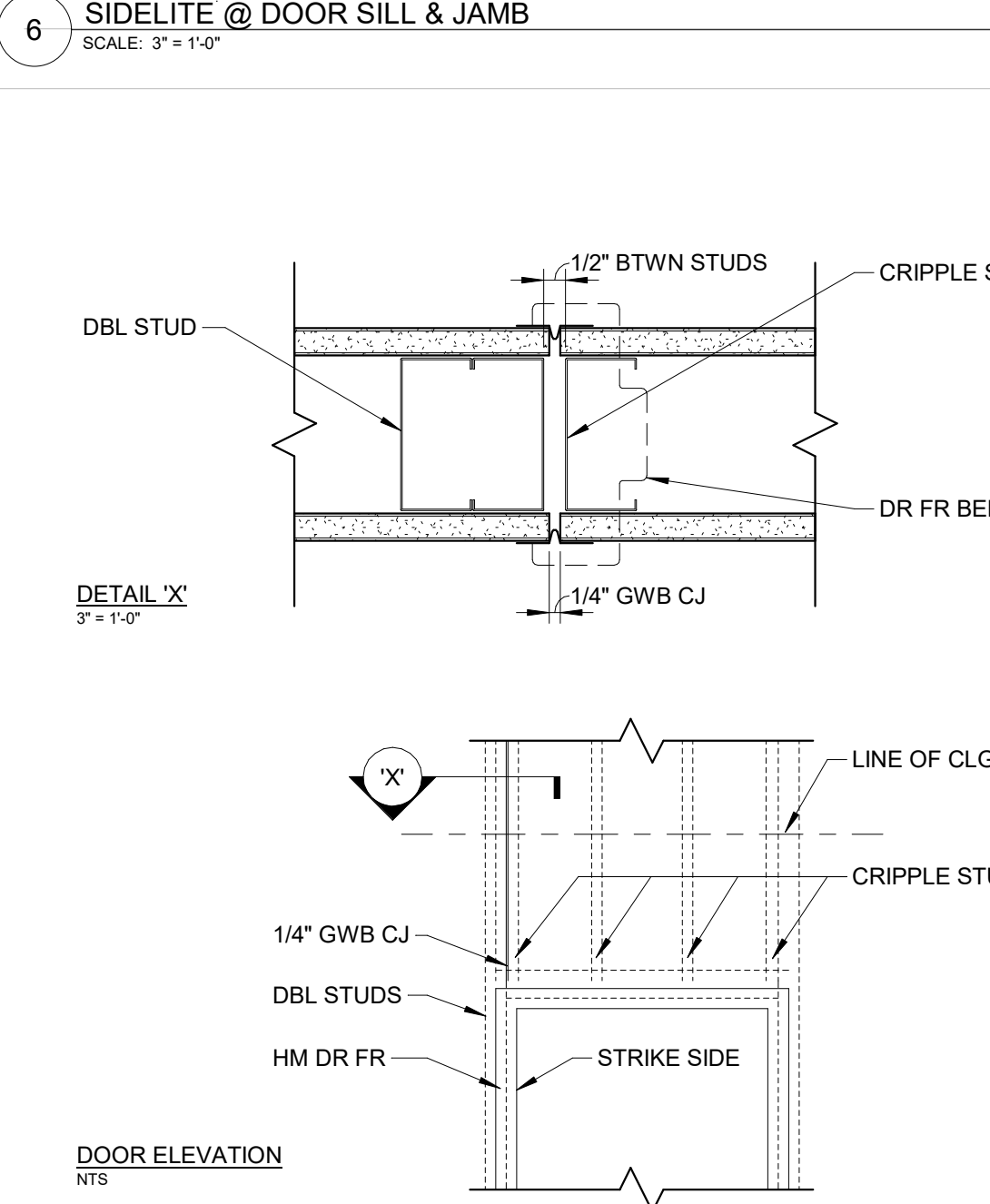
3 HM FRAME IN EXTERIOR MASONRY CAVITY WALL - HEAD
SCALE: 3" = 1'-0"



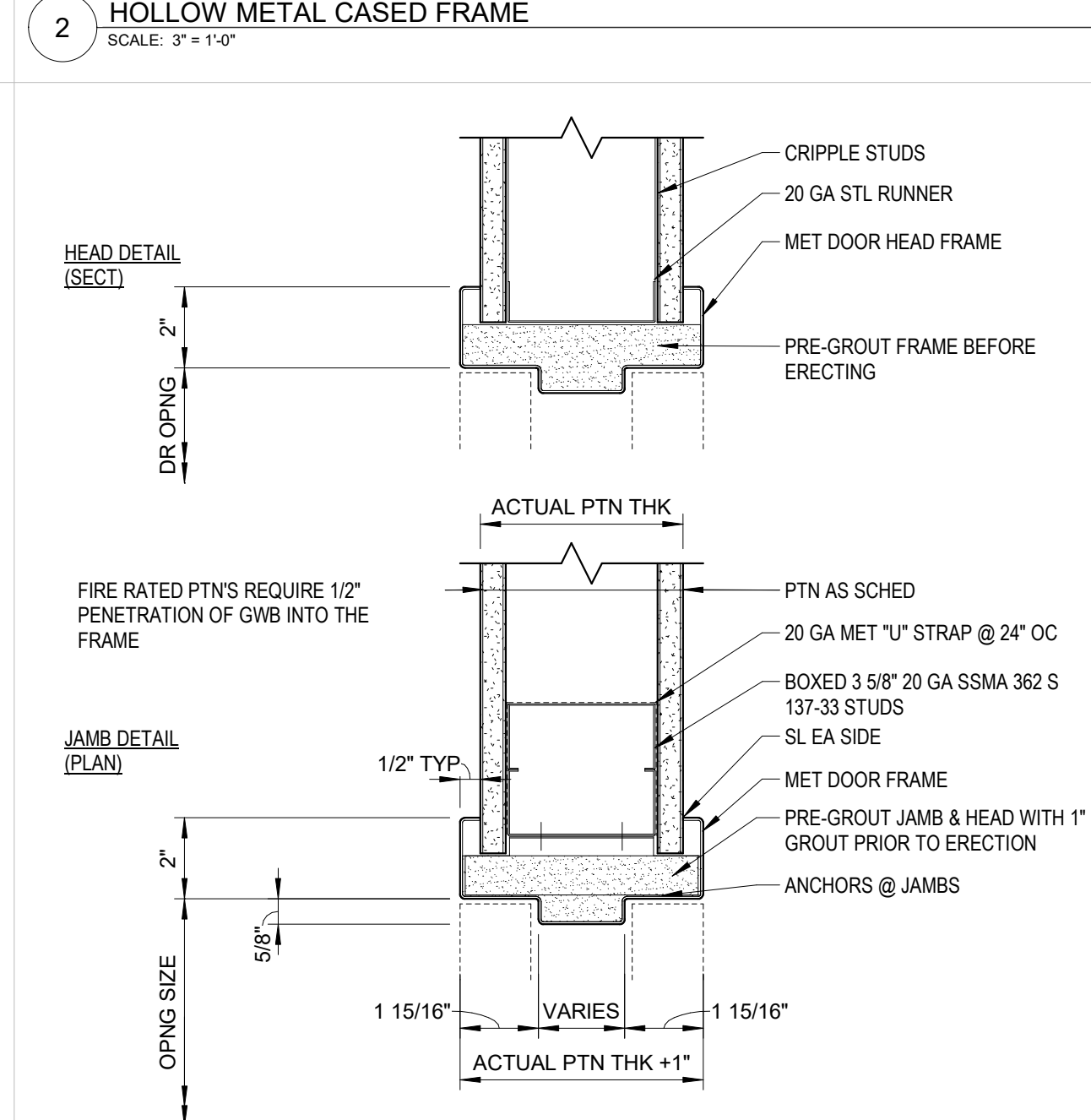
6 SIDELITE @ DOOR SILL & JAMB
SCALE: 3" = 1'-0"



2 HOLLOW METAL CASSED FRAME
SCALE: 3" = 1'-0"



5 TYP DETAIL OF GWB CJ @ DOOR FRAME
SCALE: 3" = 1'-0"



1 HM DOOR FRAME IN GWB PARTITION
SCALE: 3" = 1'-0"

KEY PLAN

PRINCIPAL
DAVID KEITH
RESEARCH PLANNER
STEPH VARGAS
ARCHITECT
ROBERT MCCONNELL
ARCHITECTURAL DESIGNER
RICARDO MOLINA

REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
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Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY RM DATE 11.08.2024

PROJECT NO. 20230523 SCALE 3" = 1'-0"

DRAWING NAME

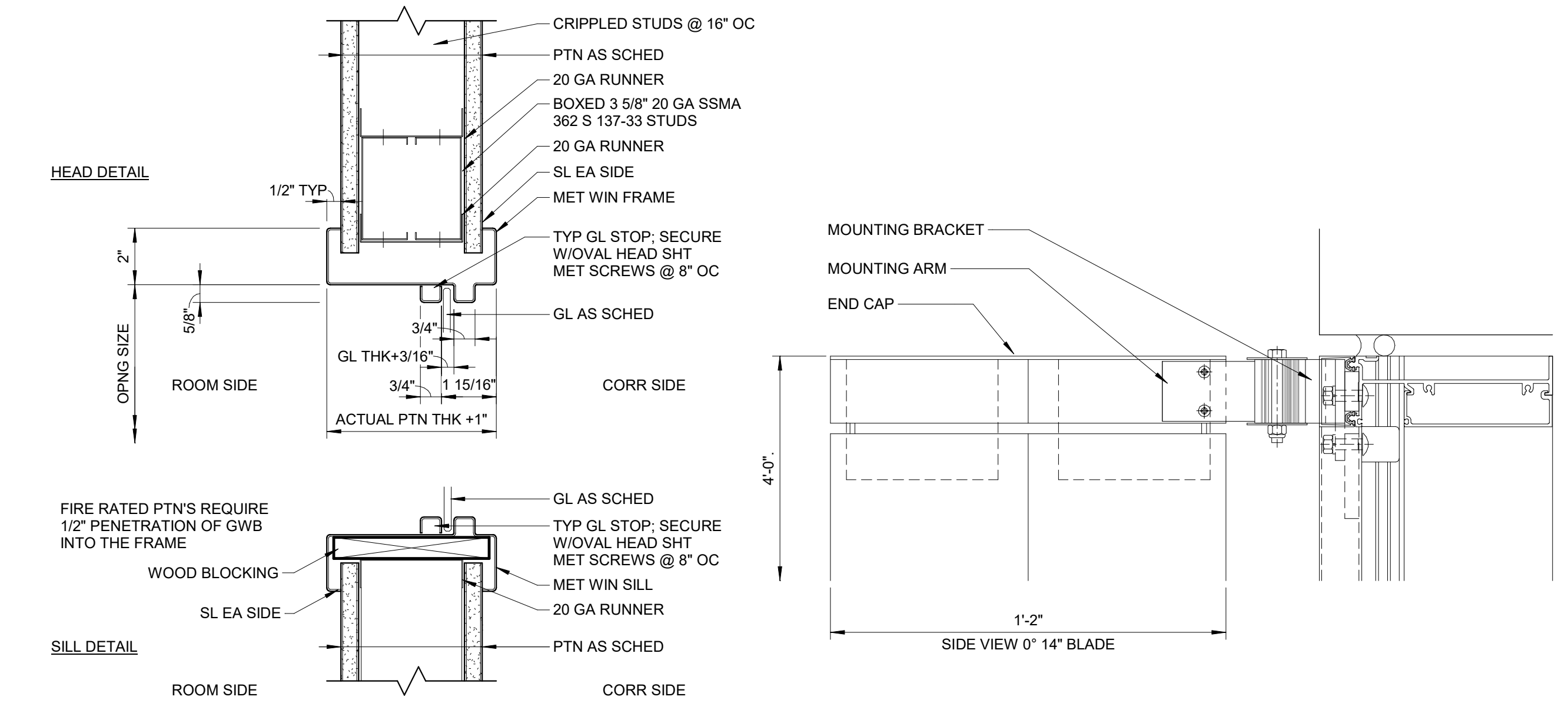
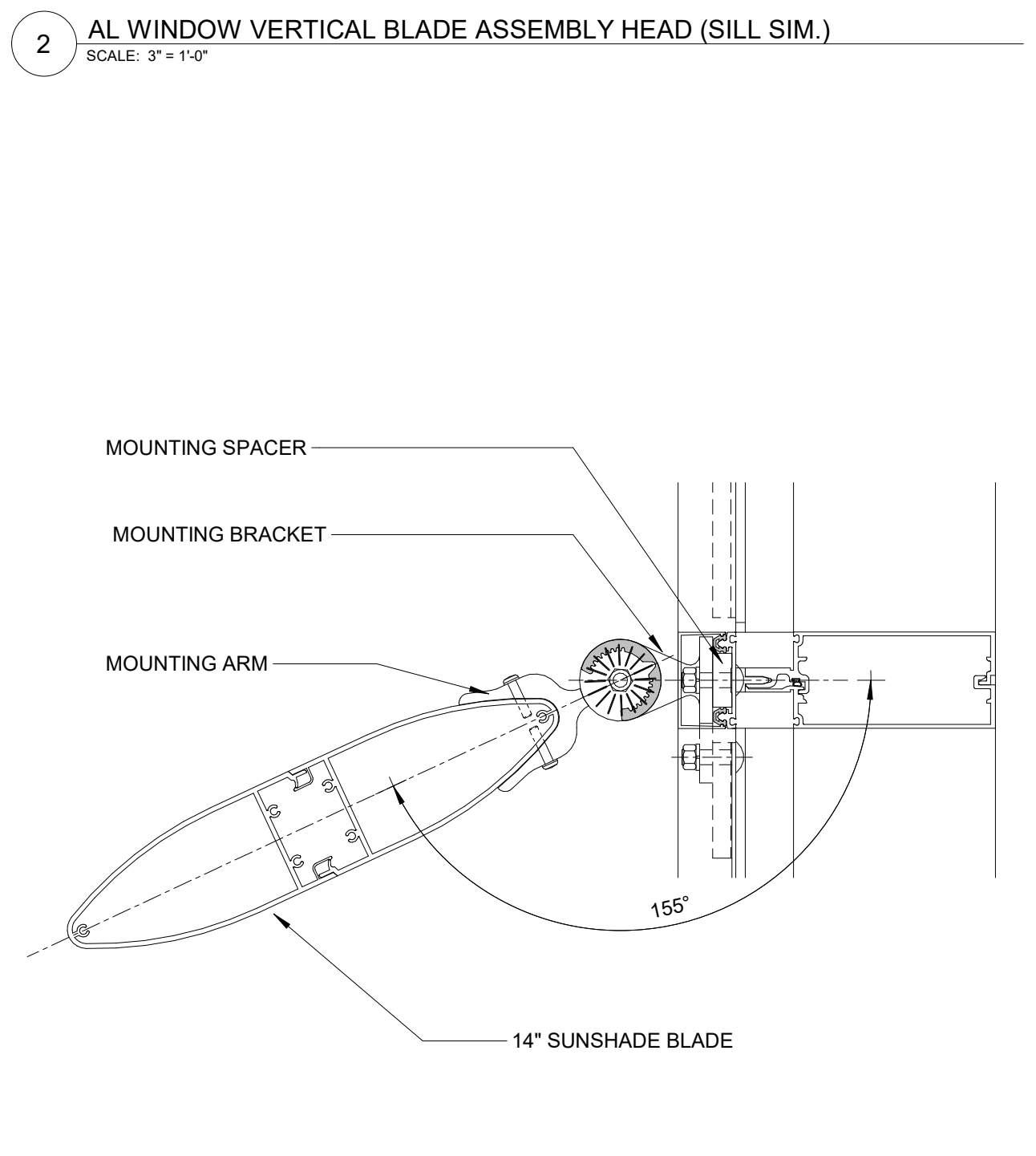
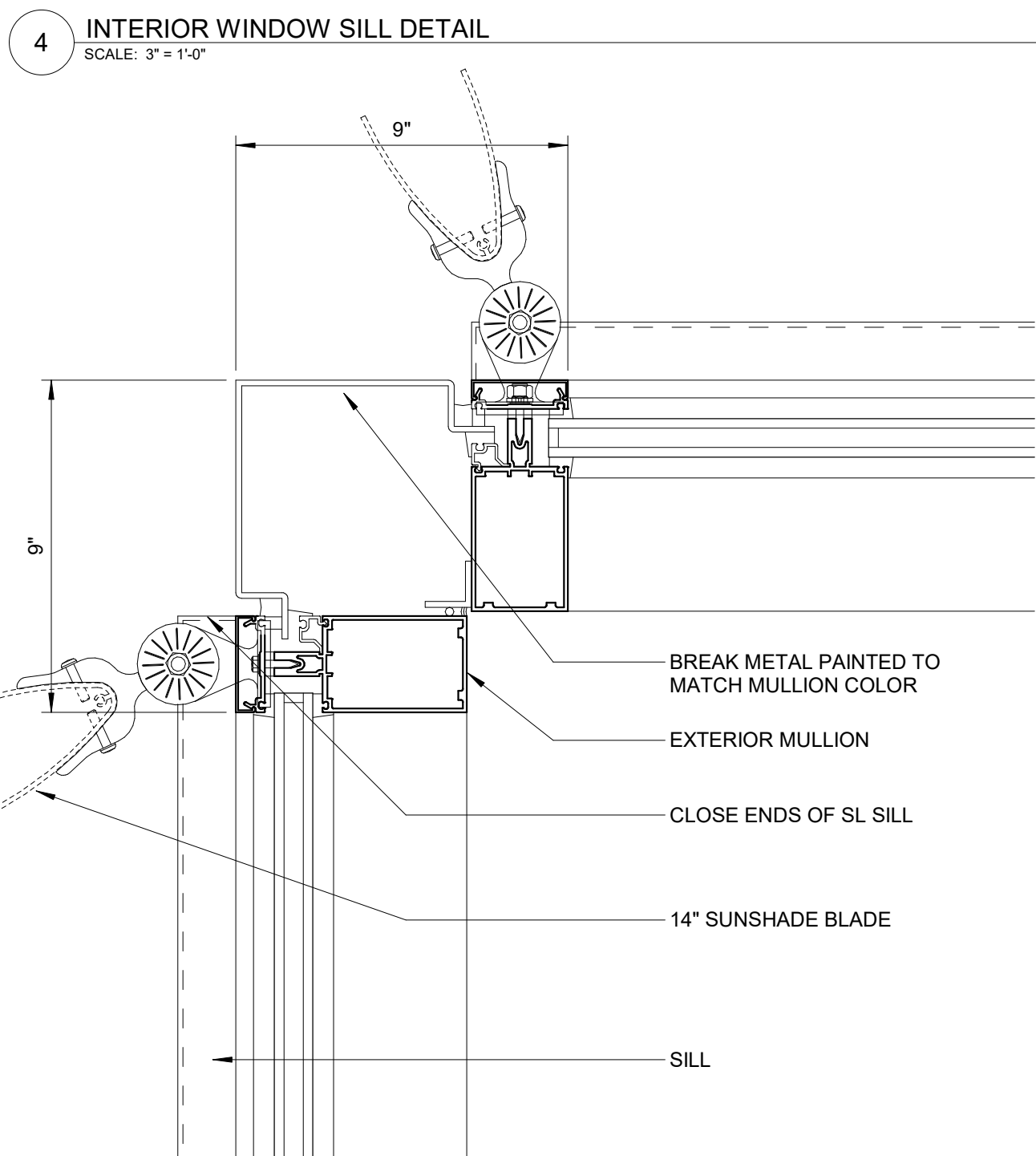
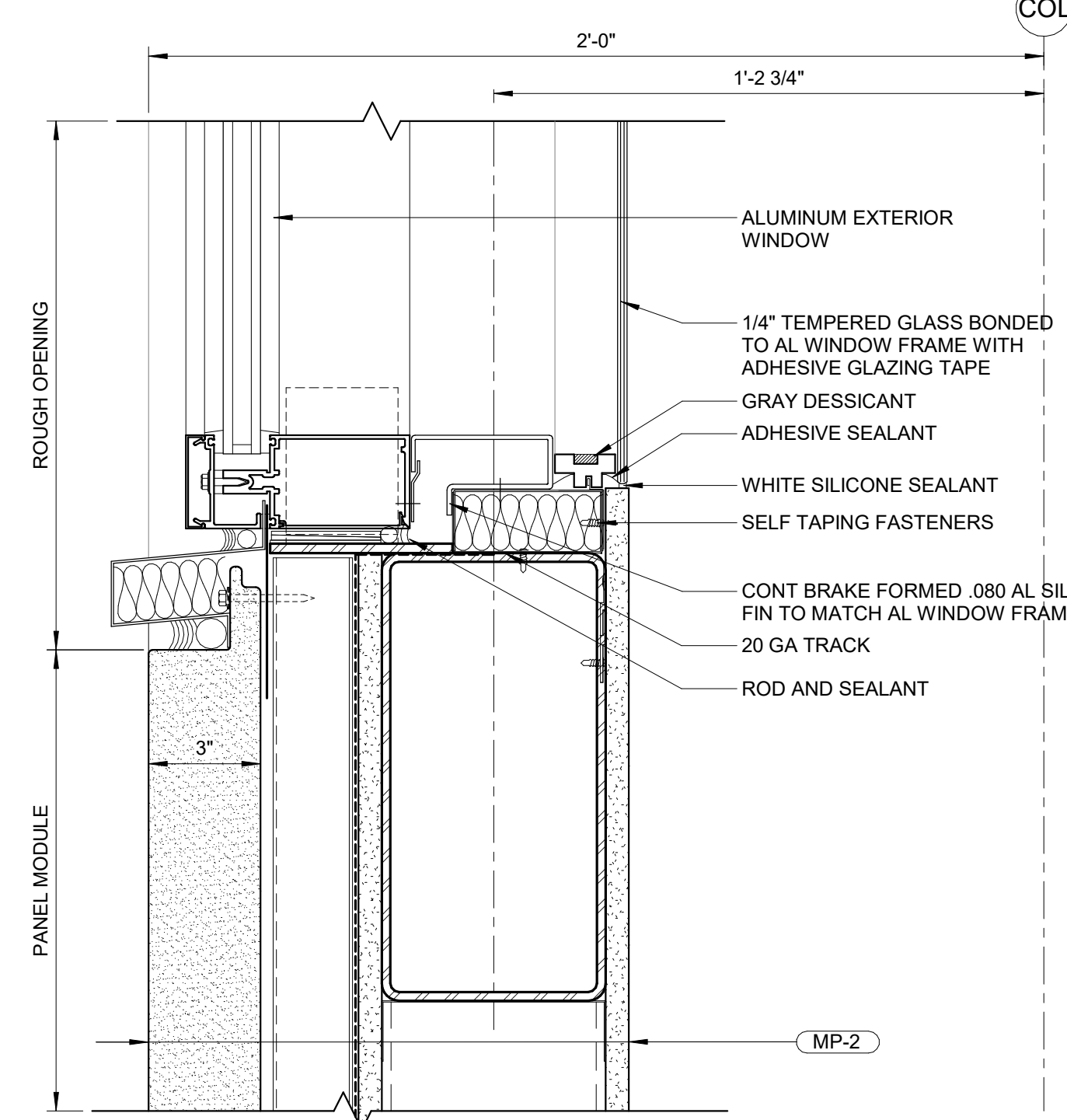
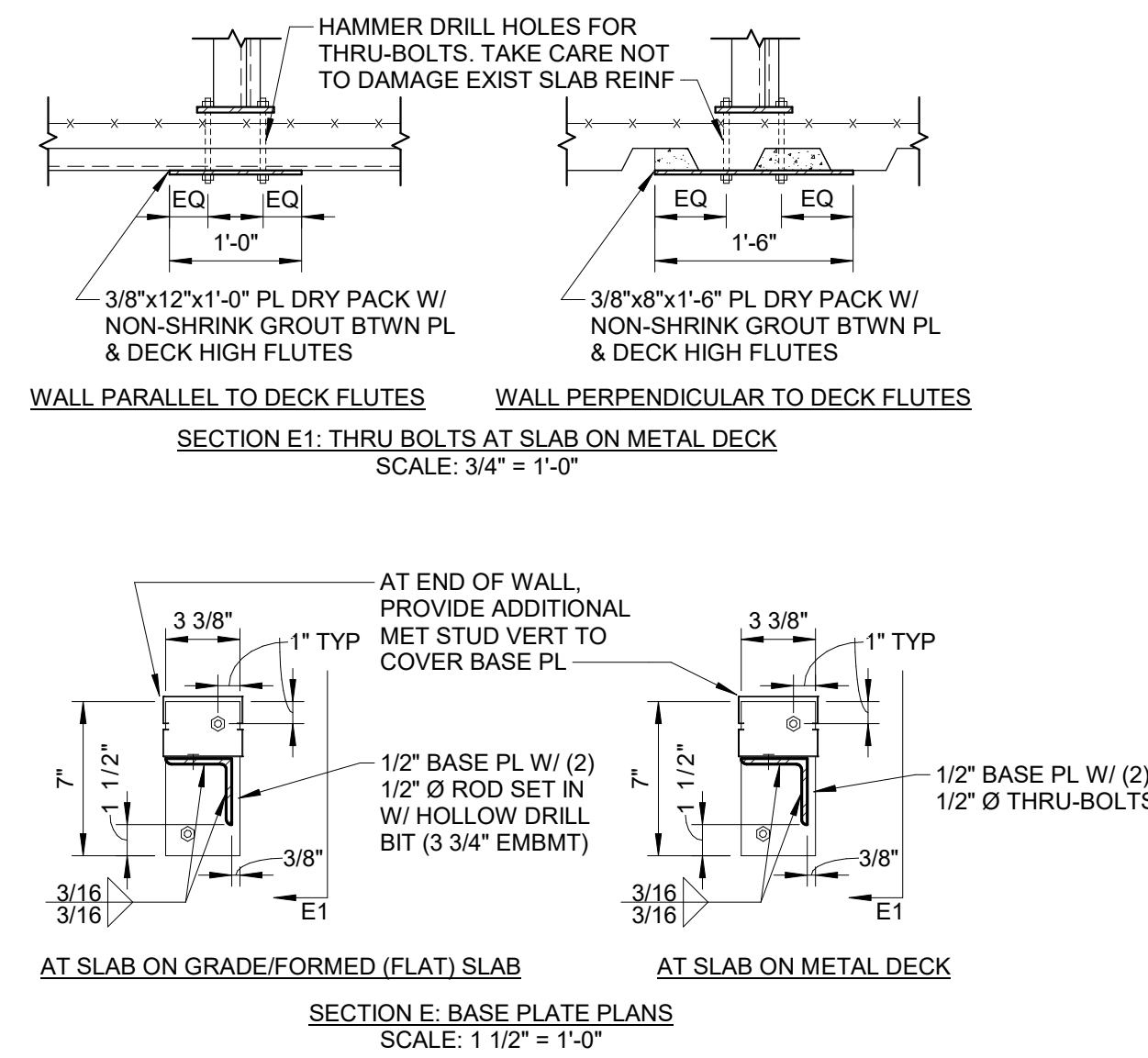
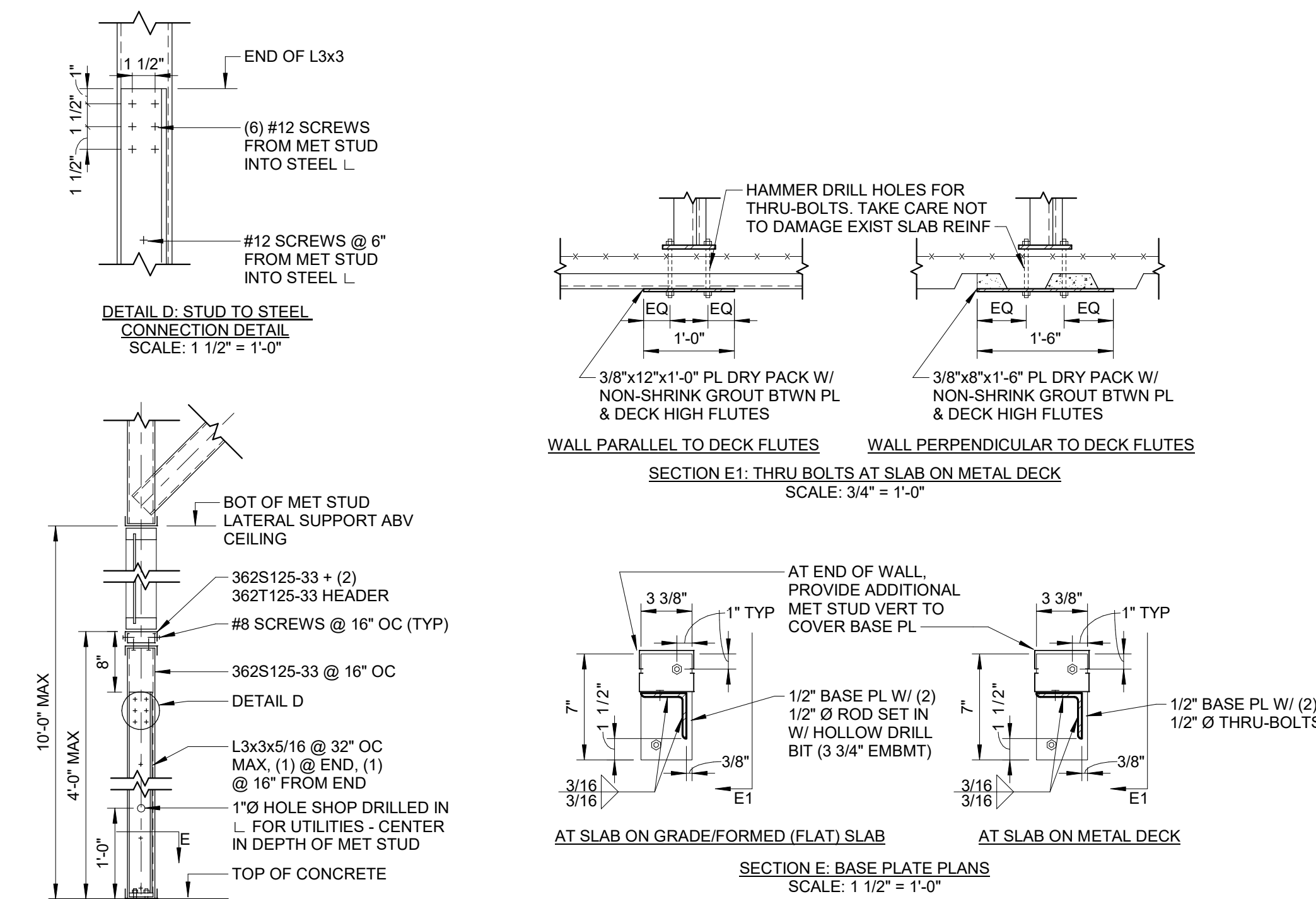
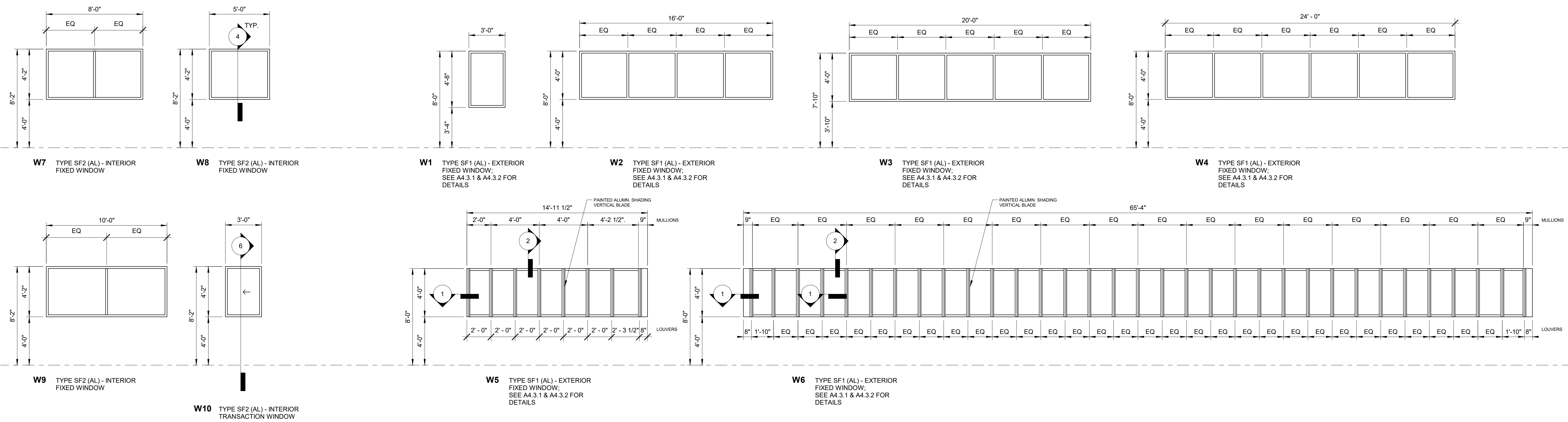
DOOR SCHEDULES & DETAILS

FLOOR/SECTION PHASE DRAWING NO.

CD A4.2.2

NOT FOR CONSTRUCTION

WINDOW TYPES ALL GLAZING TEMPERED UNO



KEY PLAN

PRINCIPAL
 DAVID KEITH
 RESEARCH PLANNER
 STEPH VARGAS
 ARCHITECT
 ROBERT MCCONNELL
 ARCHITECTURAL DESIGNER
 RICARDO MOLINA

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B		DESIGN DEVELOPMENT	05.24.2024

Southern Nevada Health District
 700 South M.L.K. Blvd
 Las Vegas, NV 89106

DRAWN BY: RM DATE: 11.08.2024

PROJECT NO: 20230523 SCALE: As indicated

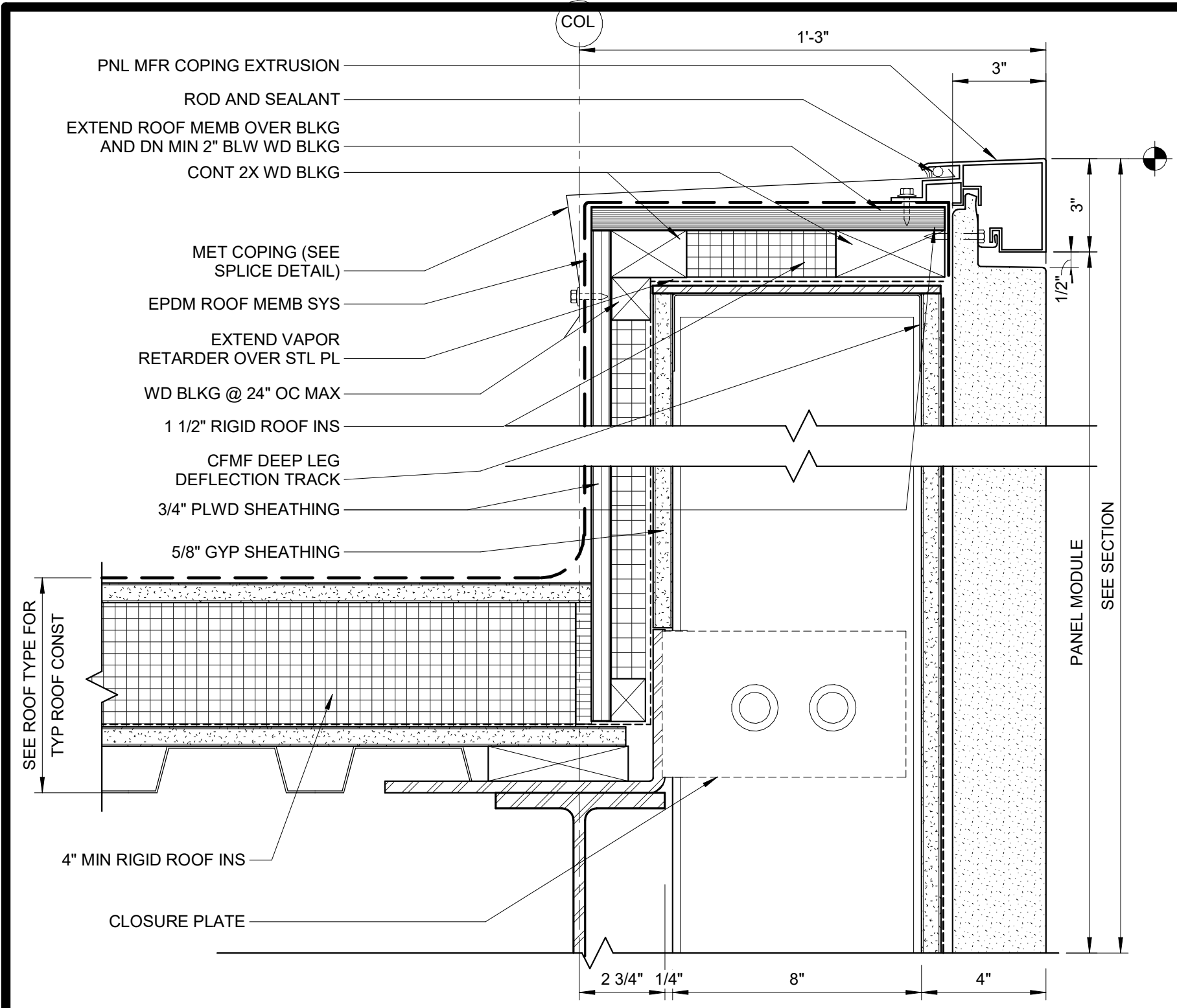
DRAWING NAME: WINDOW TYPES & DETAILS

FLOOR/SECTION PHASE: DRAWING NO:

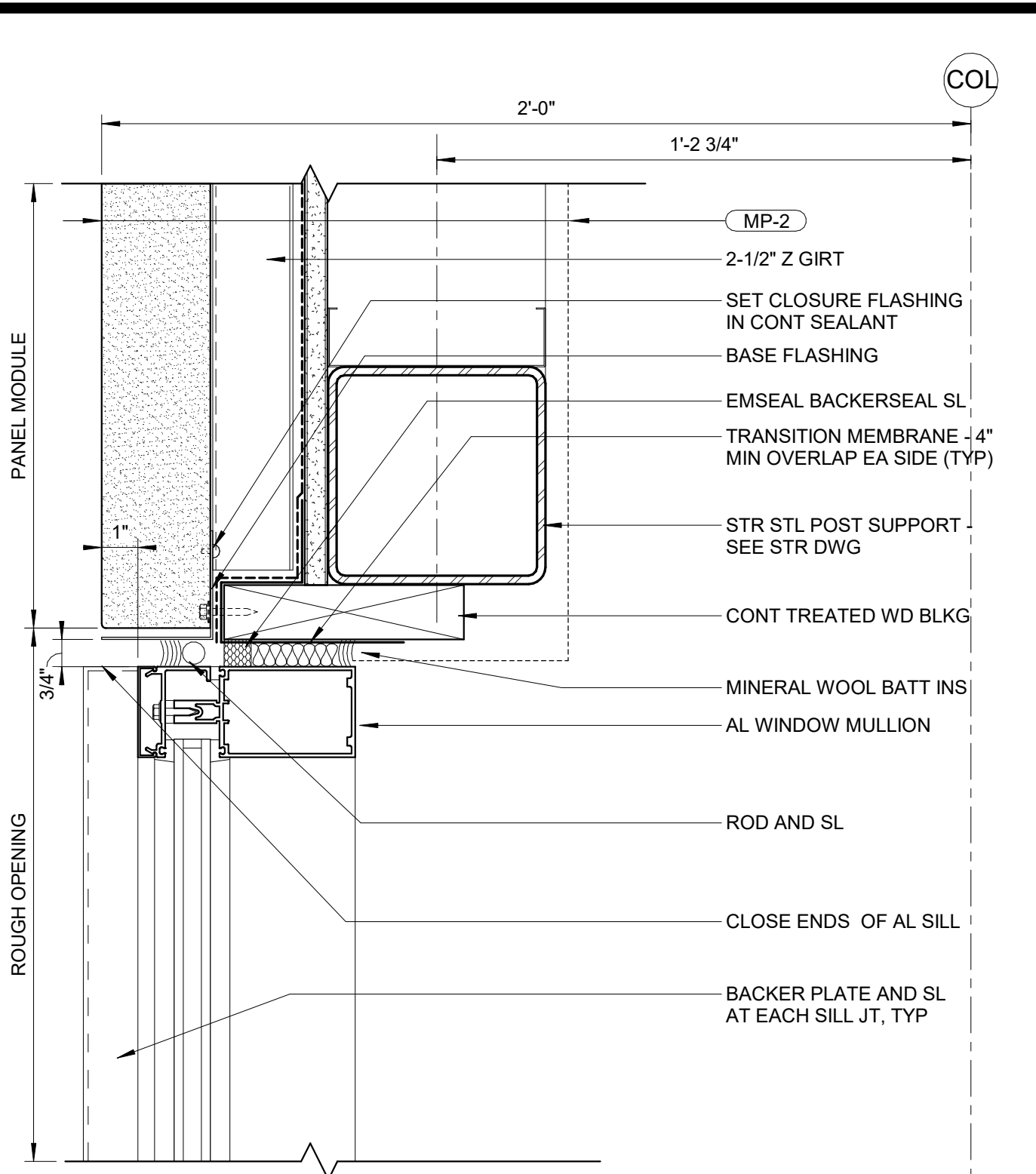
CD A4.2.3

NOT FOR CONSTRUCTION

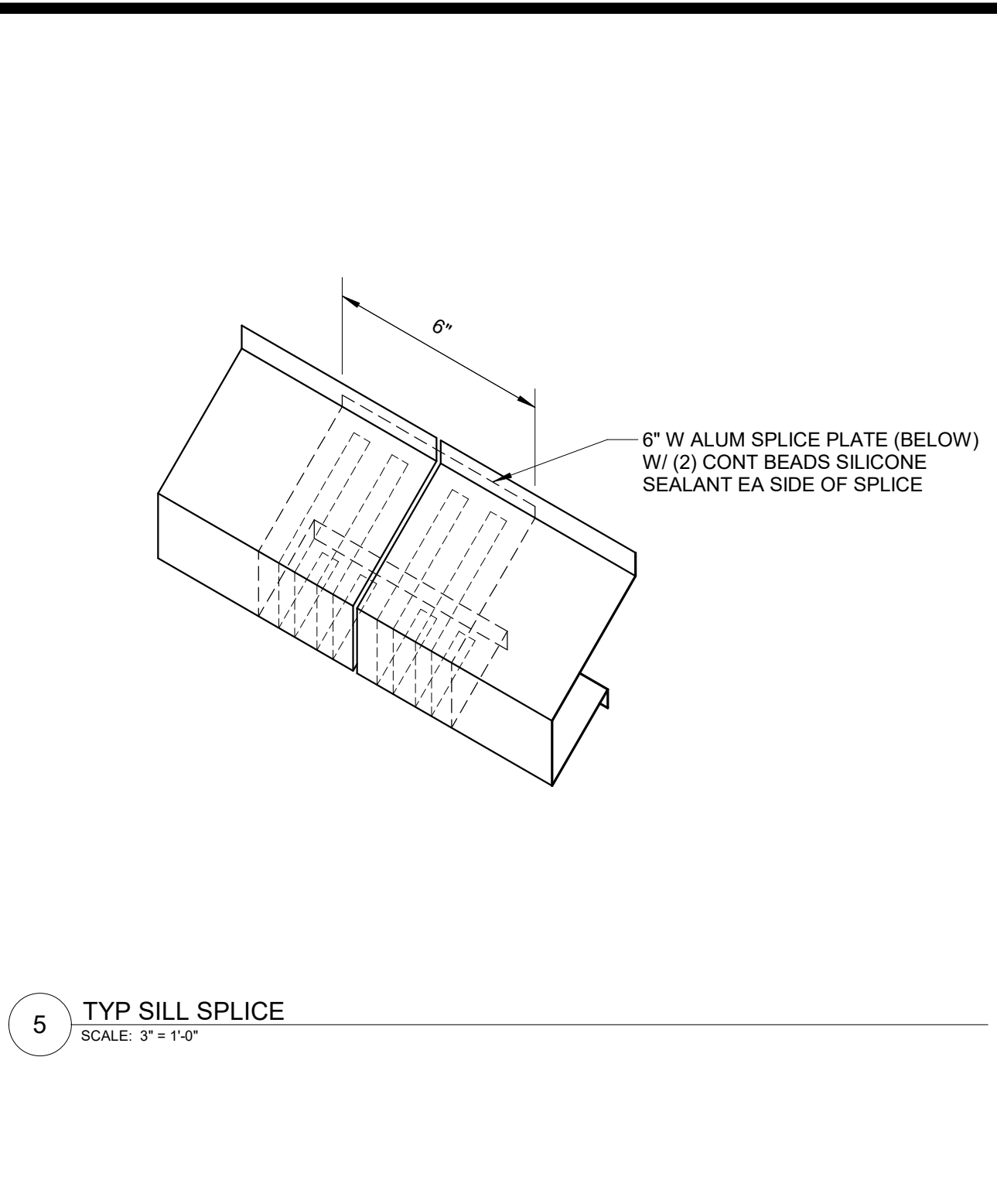
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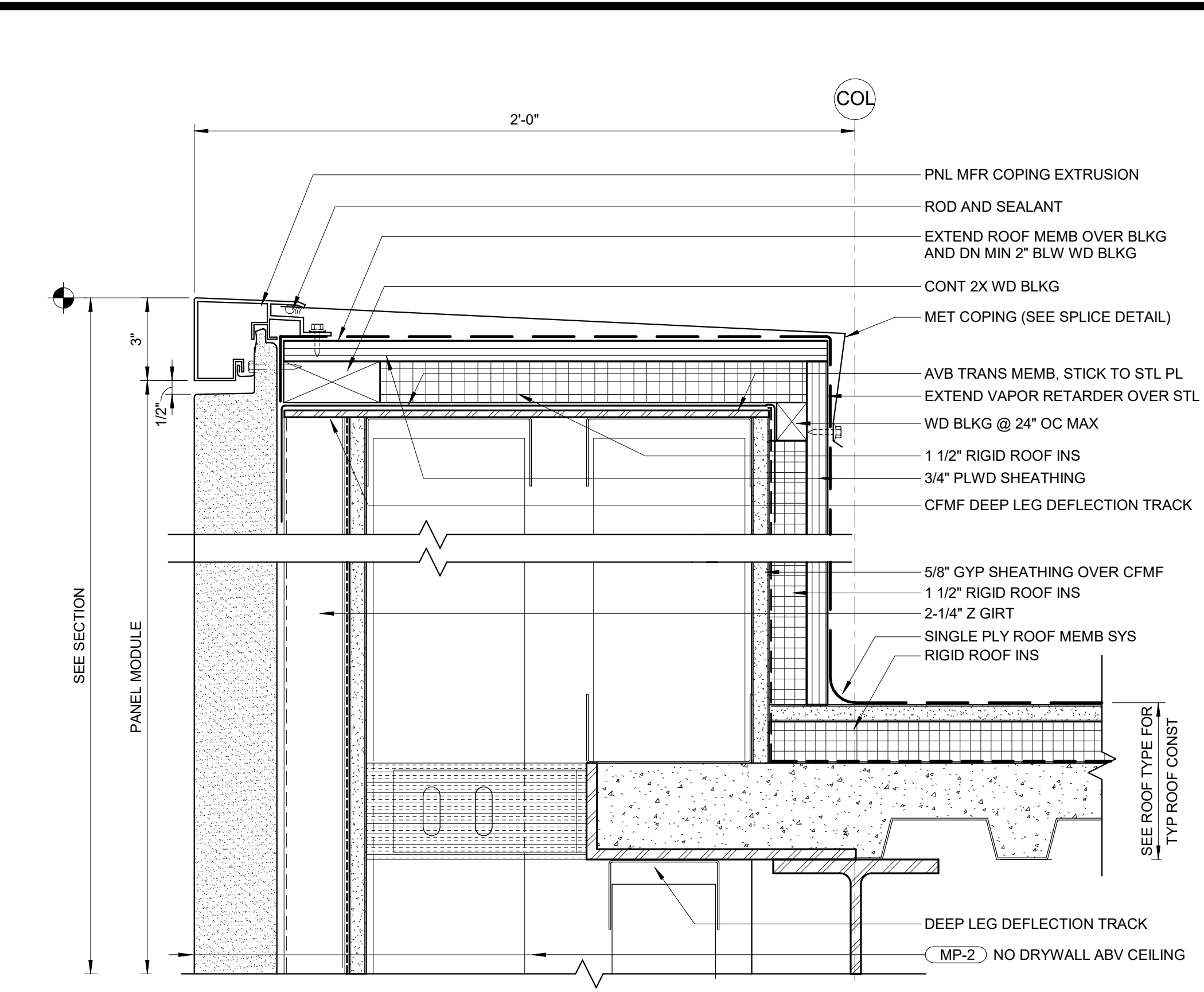
11 MP-2A - PARAPET
SCALE: 3/8" = 1'-0"



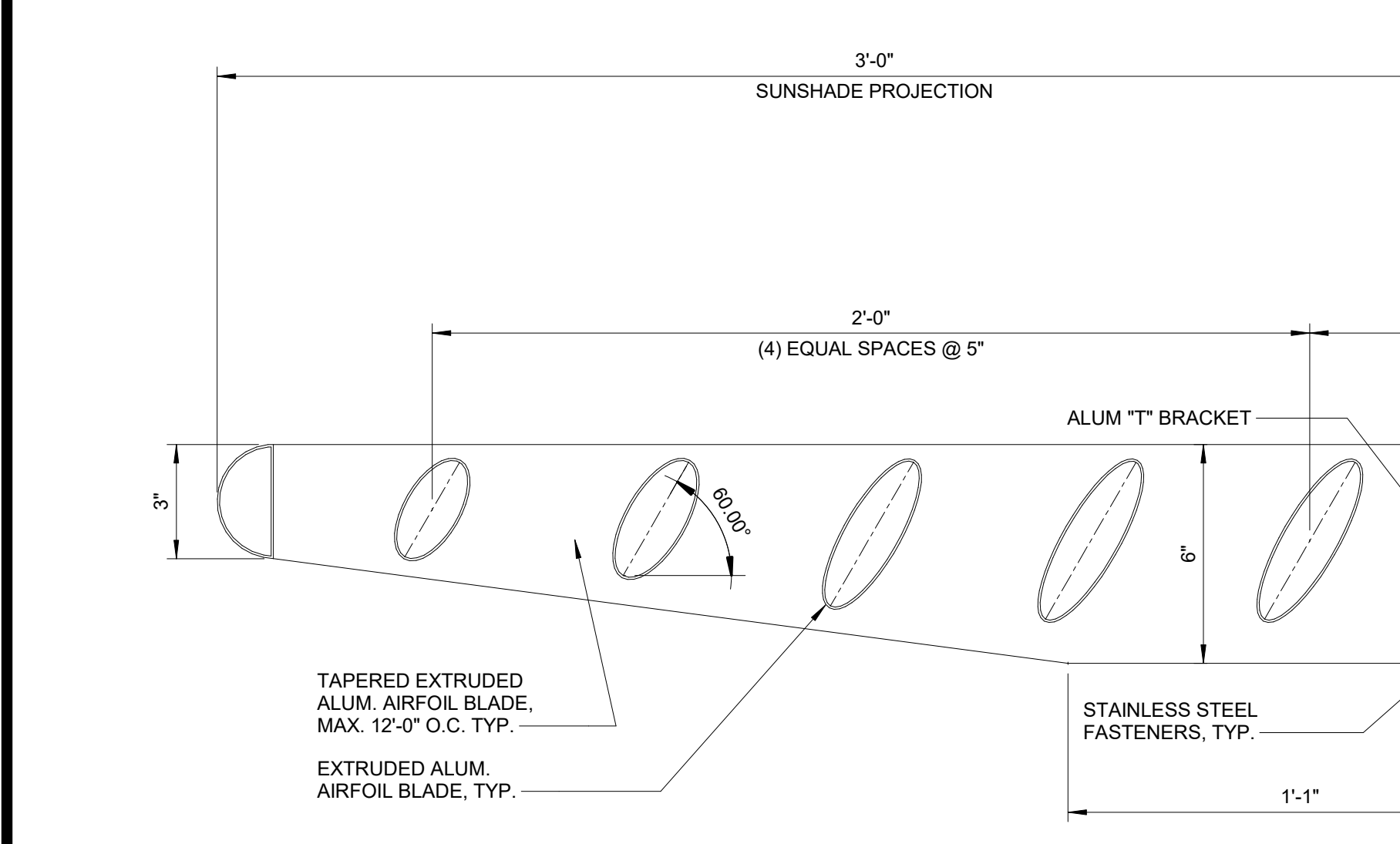
8 AL WINDOW JAMB @ MP-2
SCALE: 3/8" = 1'-0"



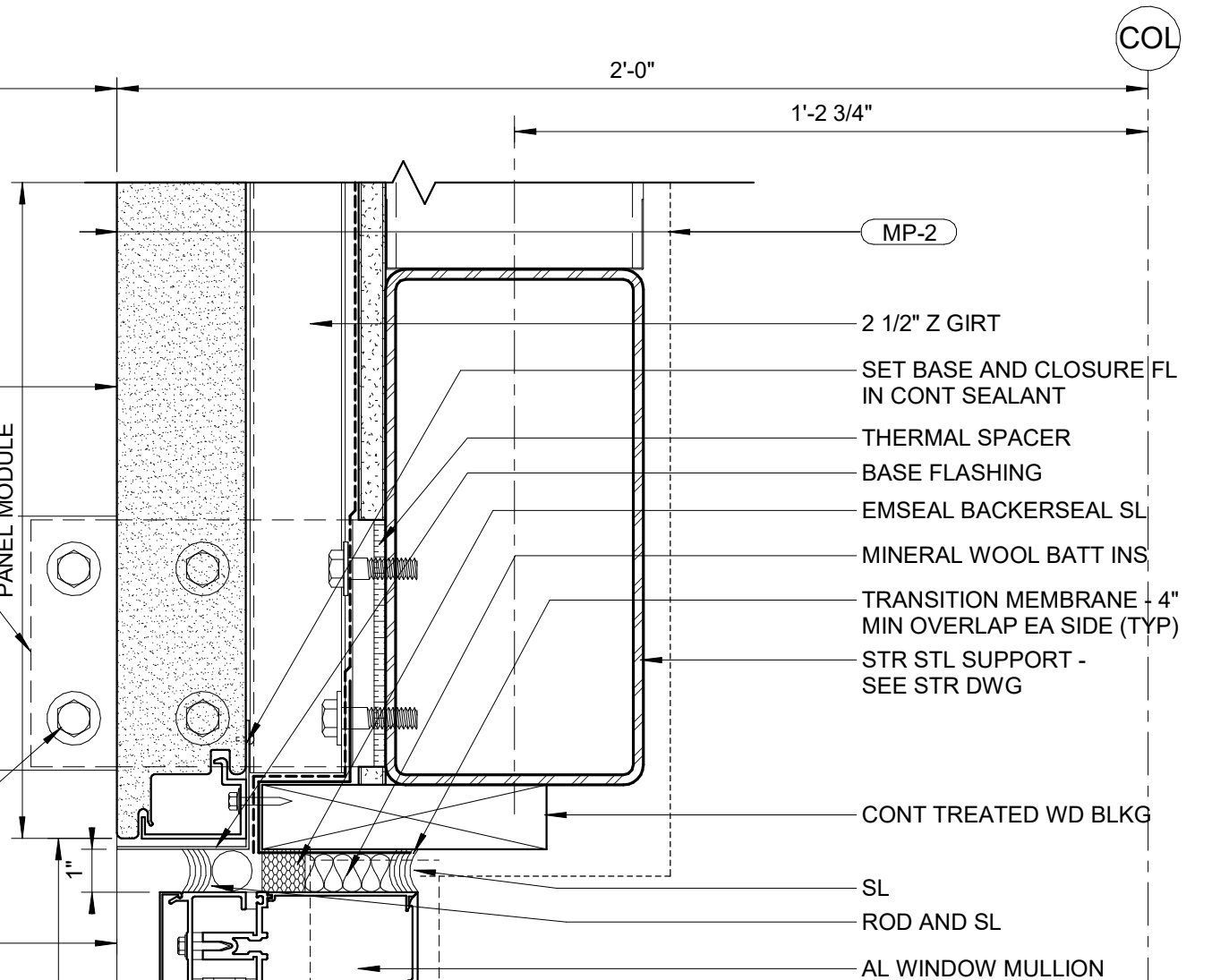
5 TYP SILL SPlice
SCALE: 3/8" = 1'-0"



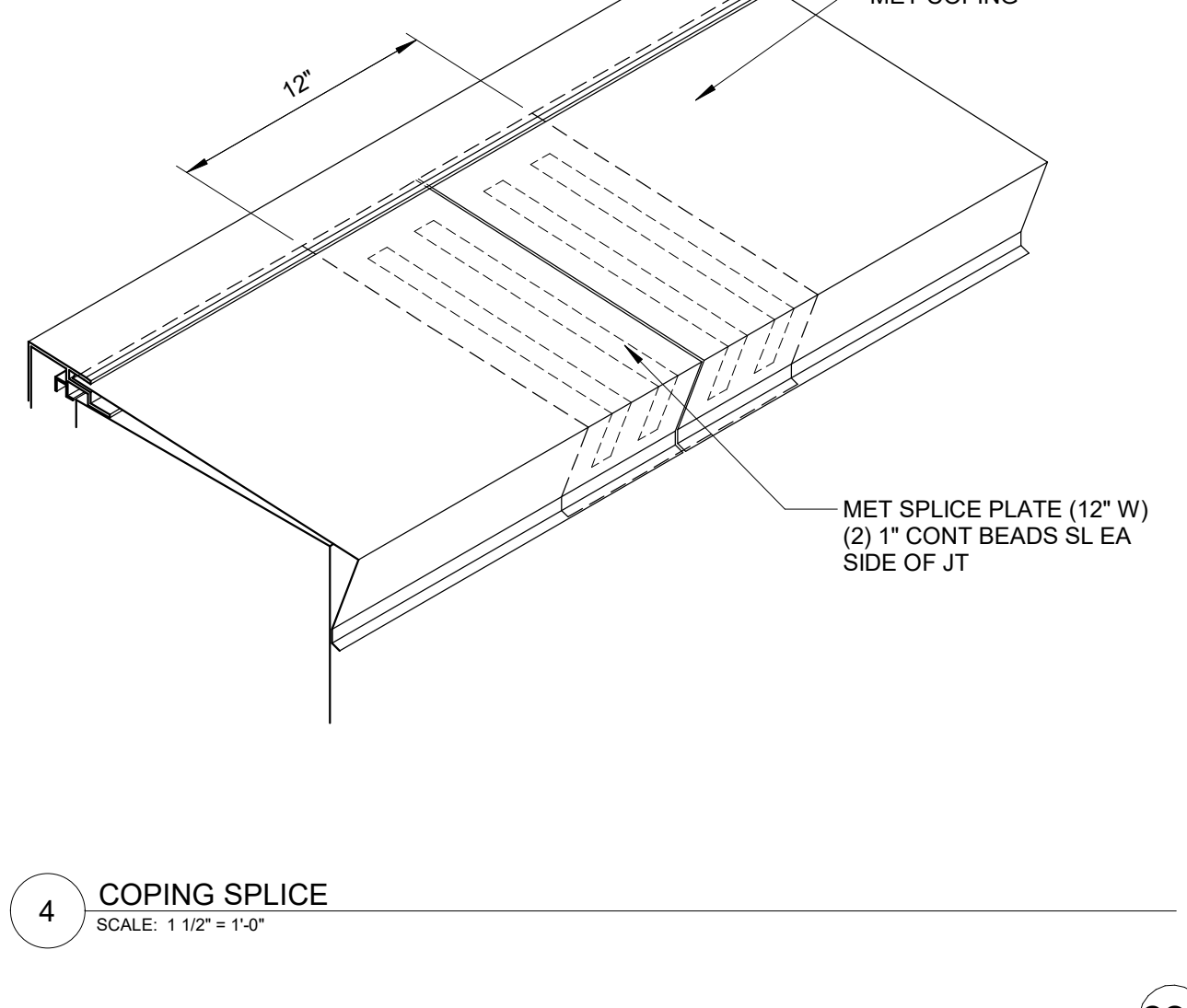
3 PARAPET @ MP-2
SCALE: 3/8" = 1'-0"



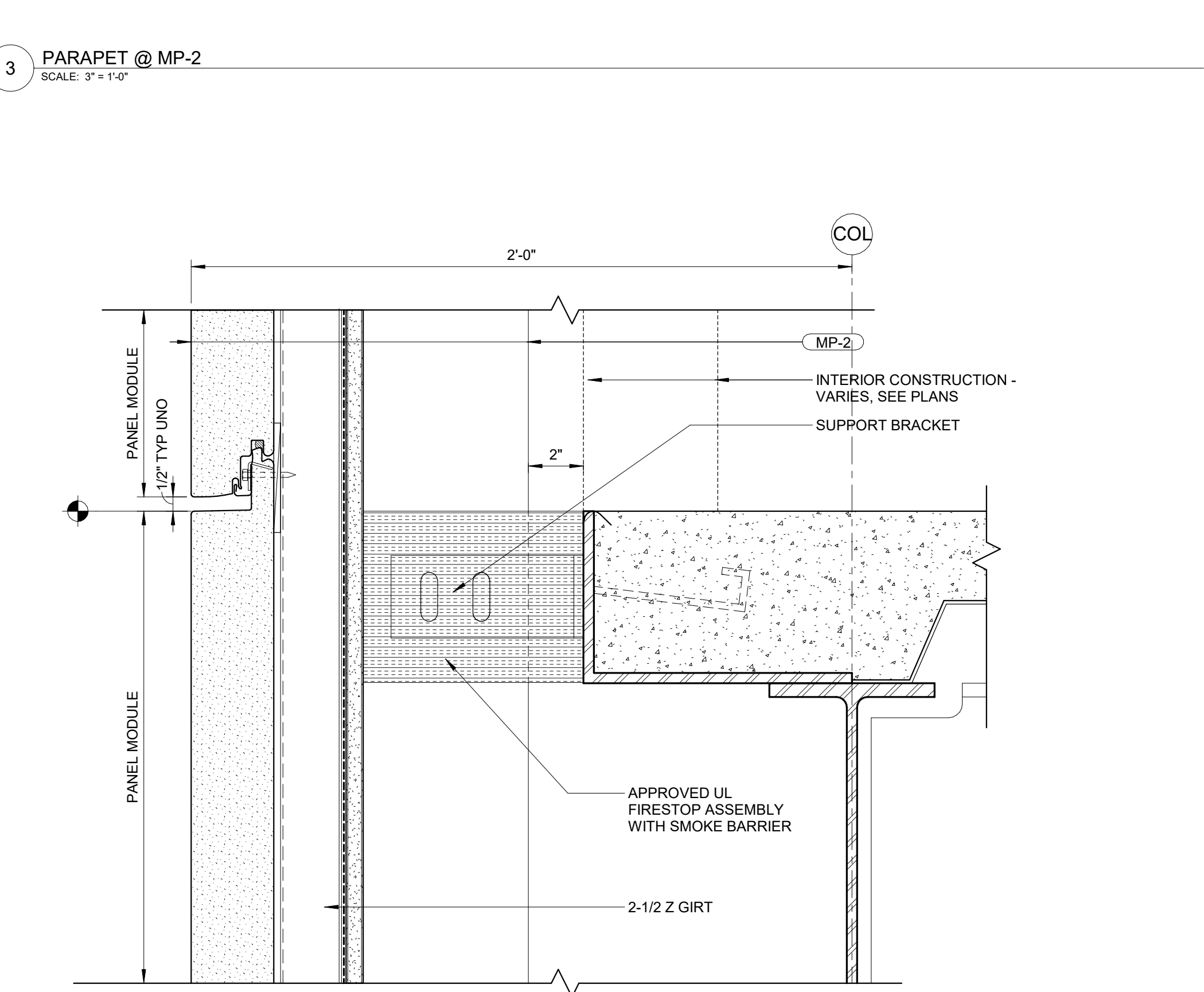
10 MP-2 - INSULATED METAL PANEL PENETRATION
SCALE: 3/8" = 1'-0"



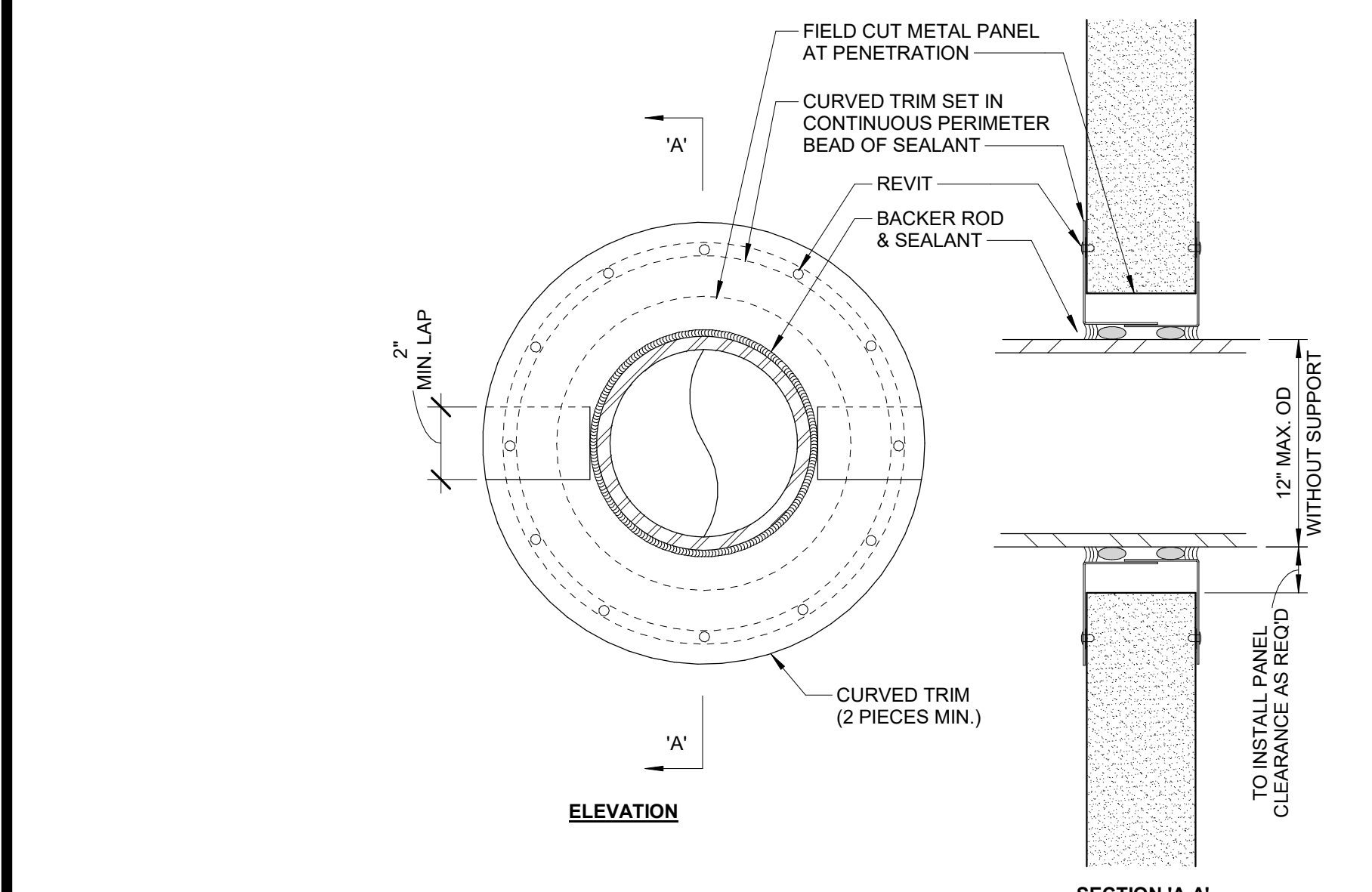
7 AL WINDOW HEAD @ MP-2
SCALE: 3/8" = 1'-0"



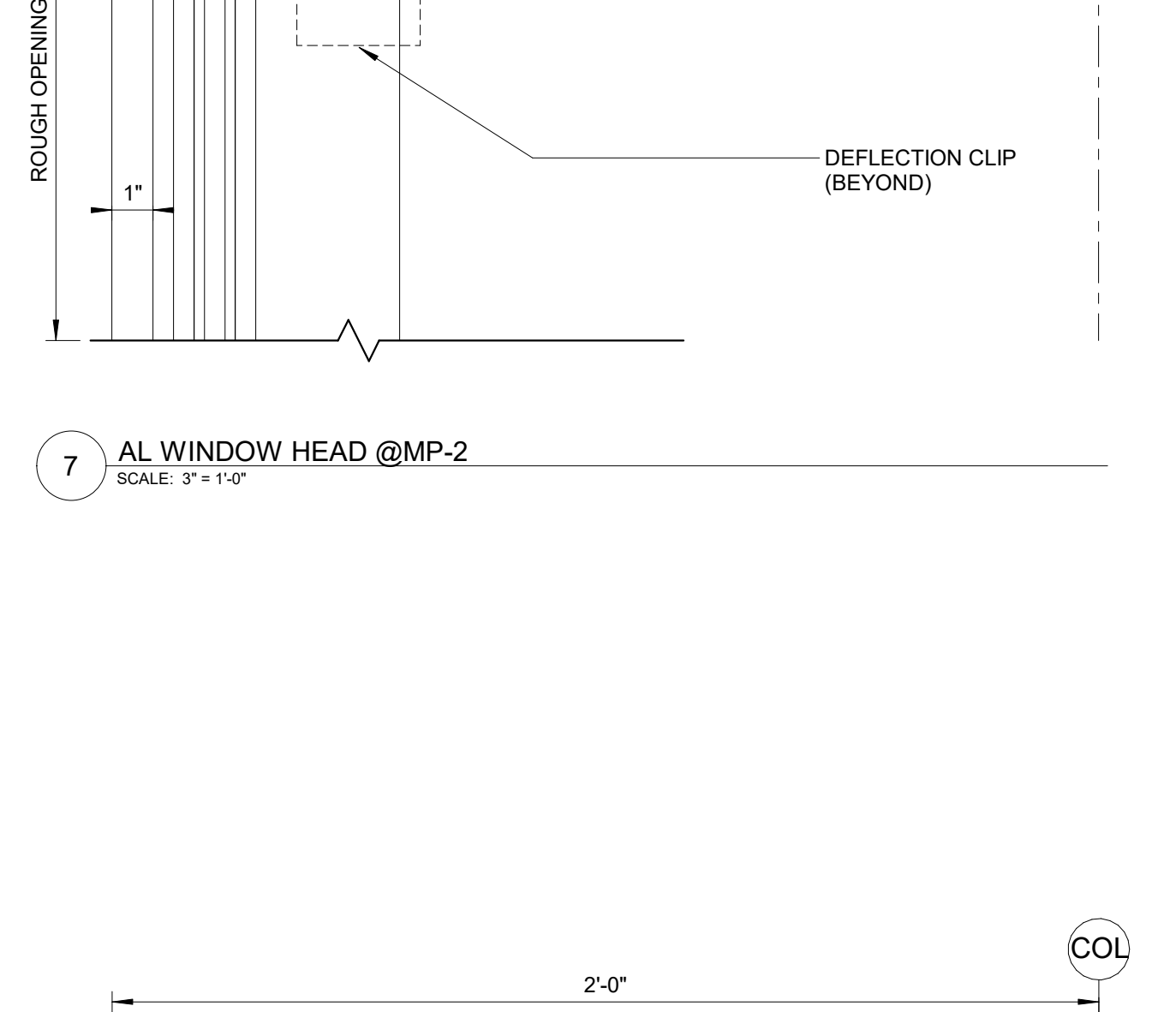
4 COPING SPlice
SCALE: 1 1/2" = 1'-0"



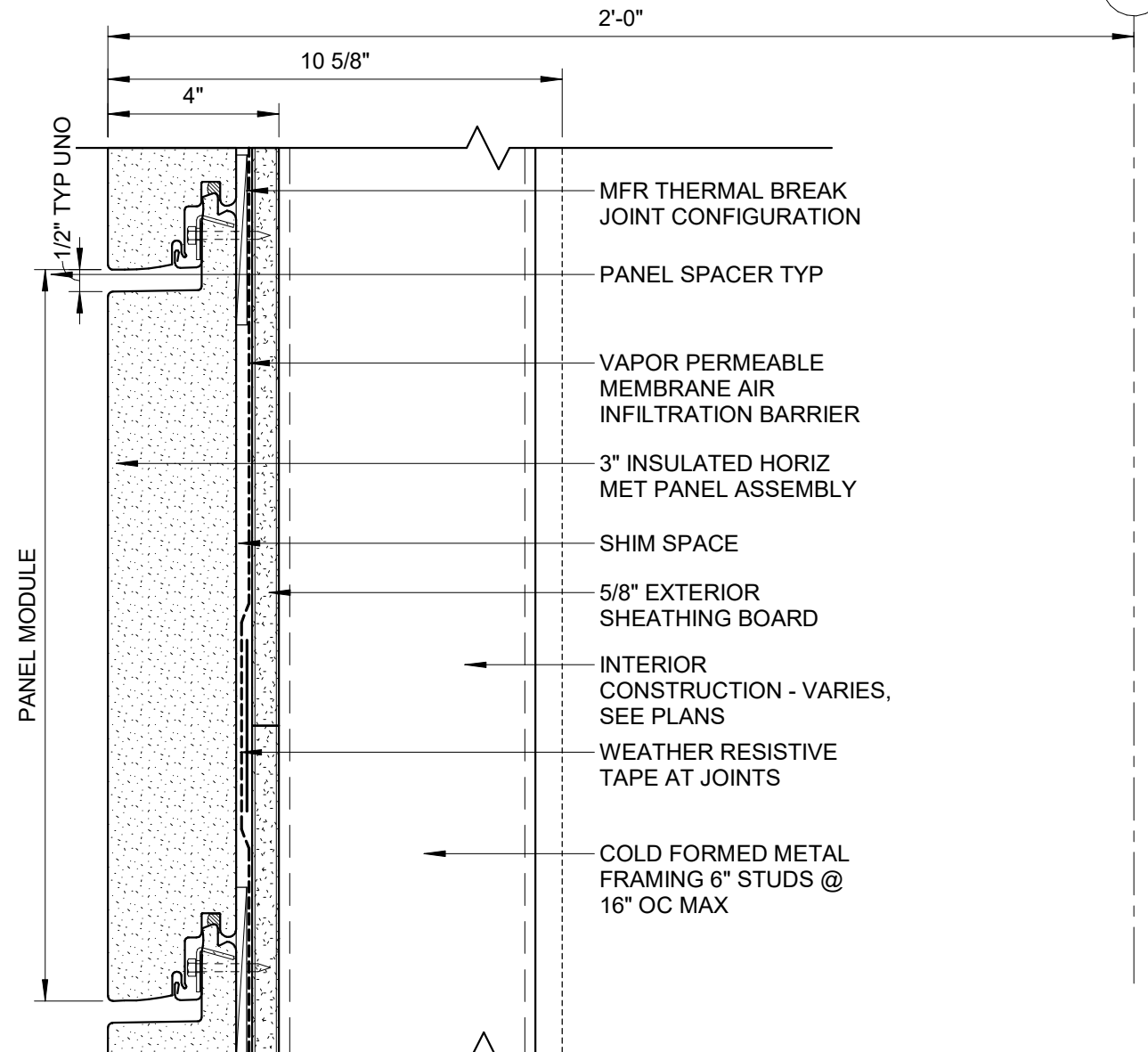
2 FLOOR SLAB - CONTINUOUS CFMF @ MP-2
SCALE: 3/8" = 1'-0"



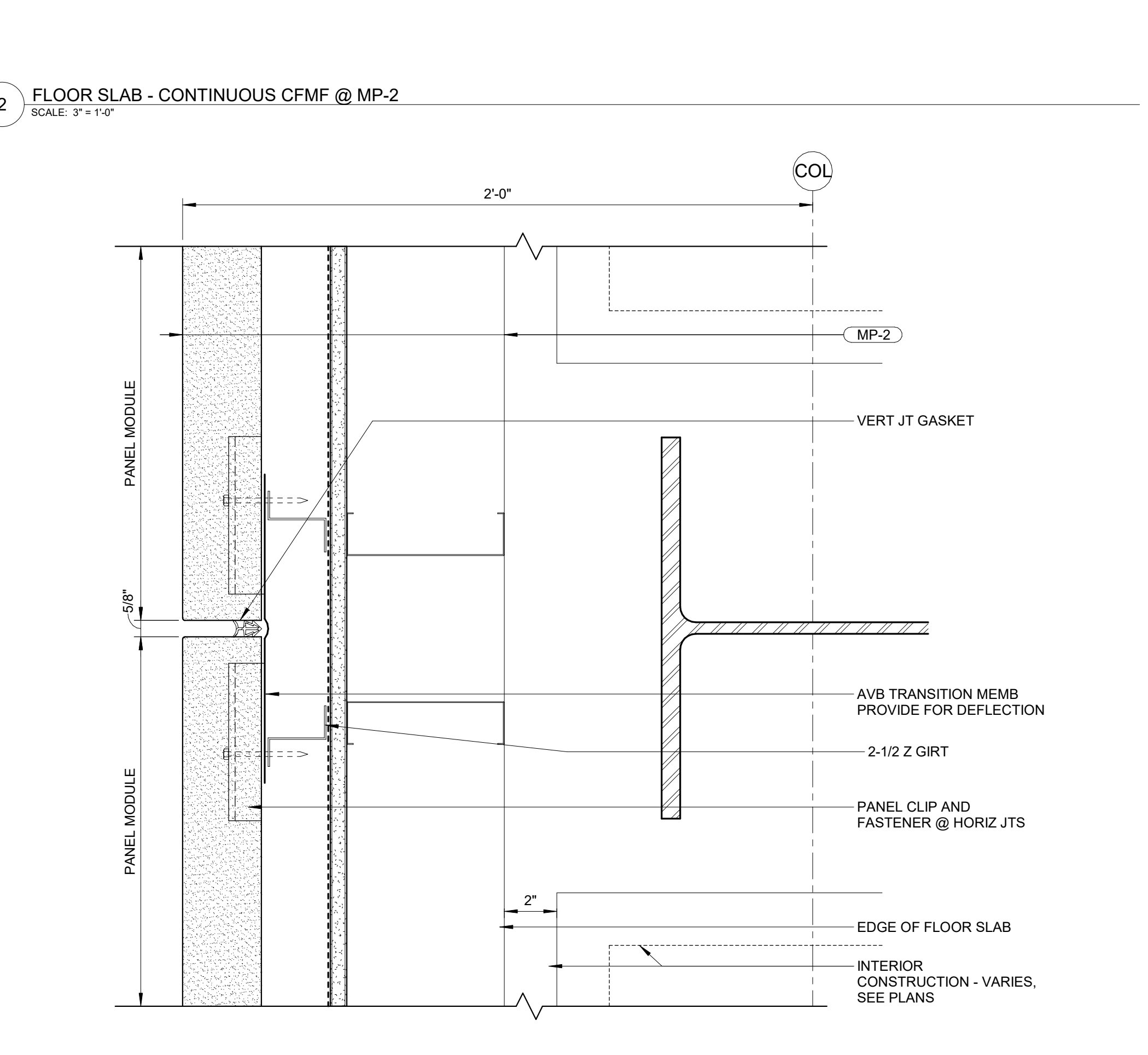
9 MP-2A - SOFFIT BENT PANEL
SCALE: 3/8" = 1'-0"



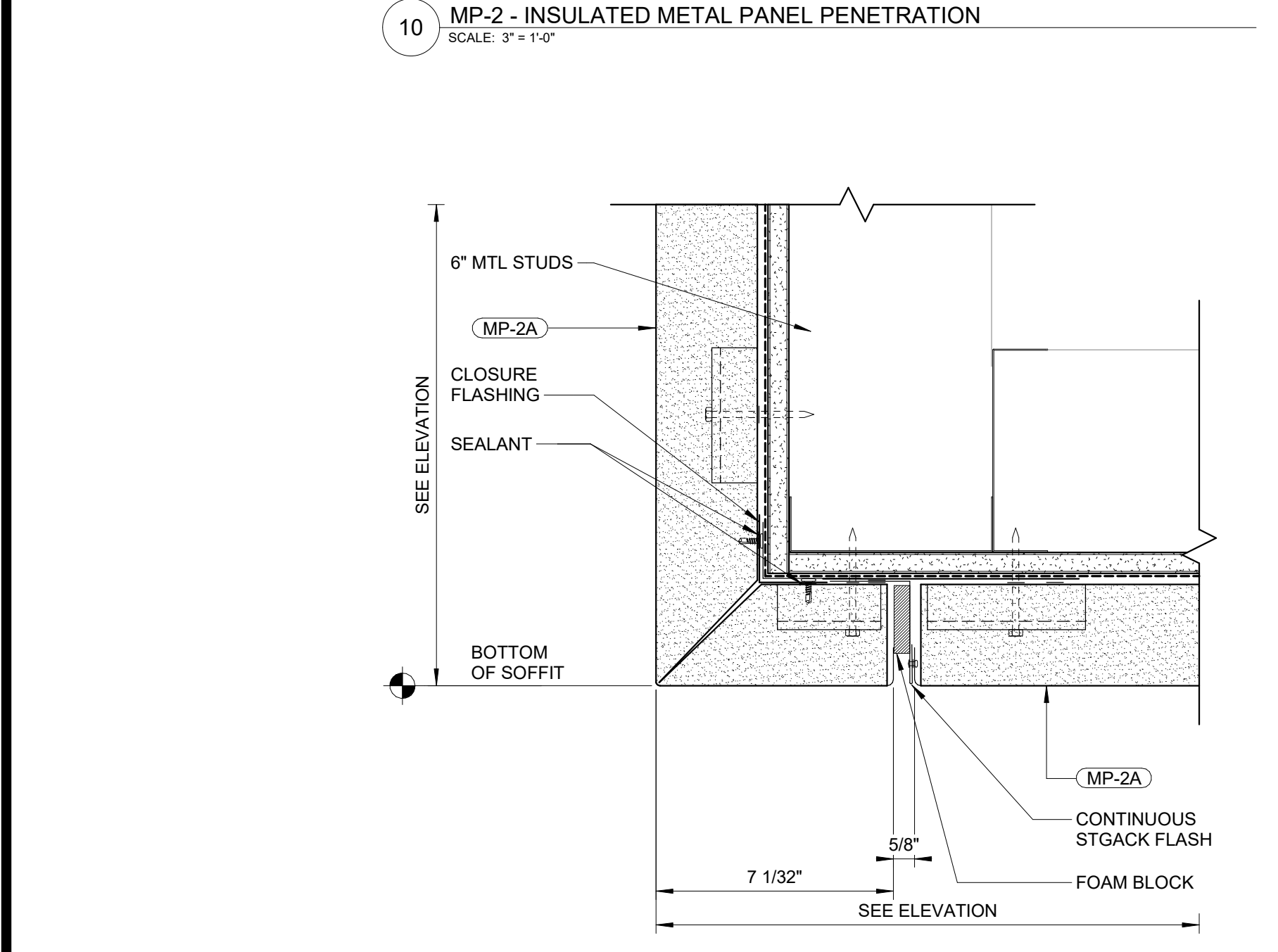
6 AL WINDOW SILL @ MP-2
SCALE: 3/8" = 1'-0"



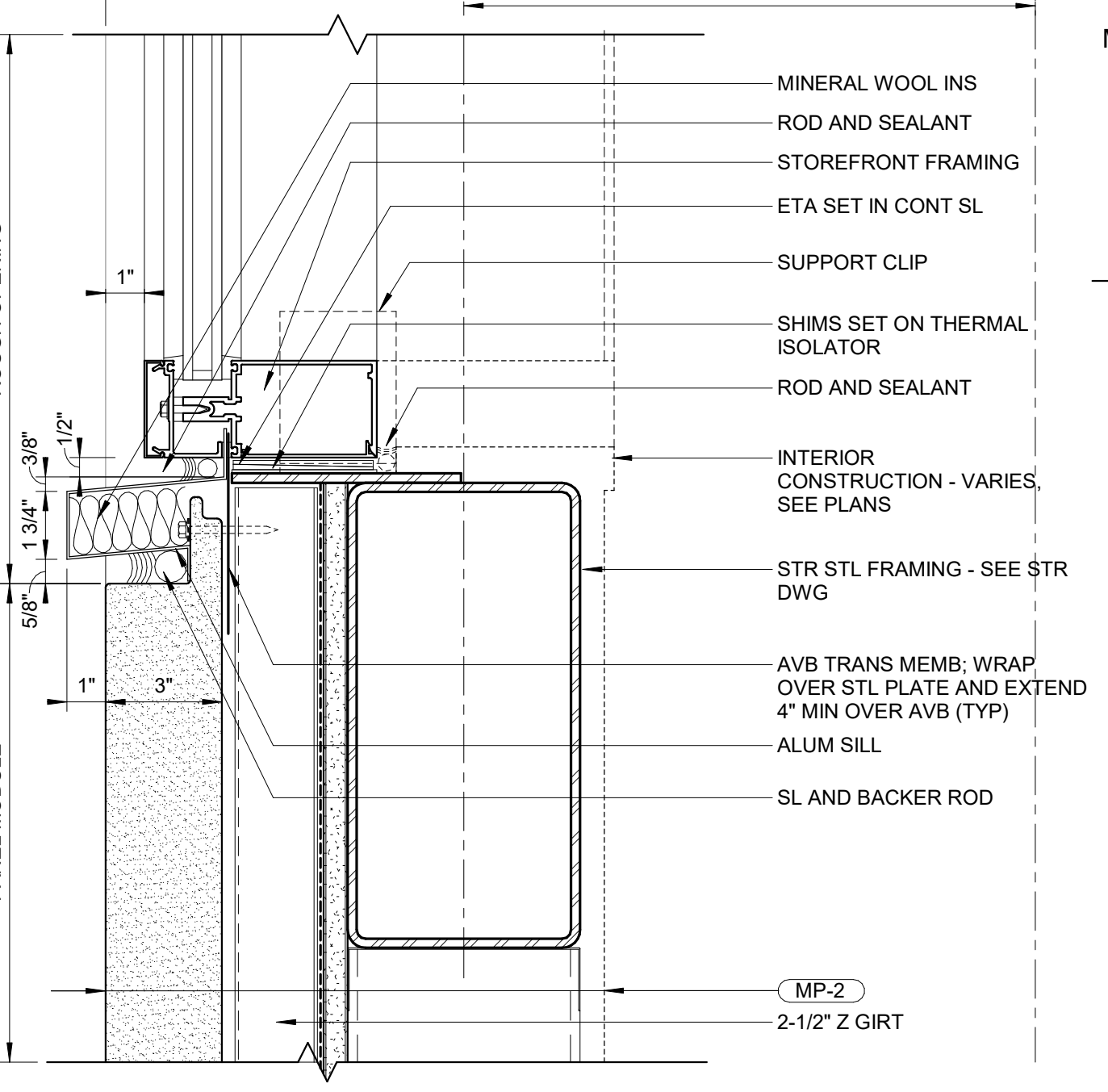
1 TYPICAL VERTICAL JOINT @ MP-2
SCALE: 3/8" = 1'-0"



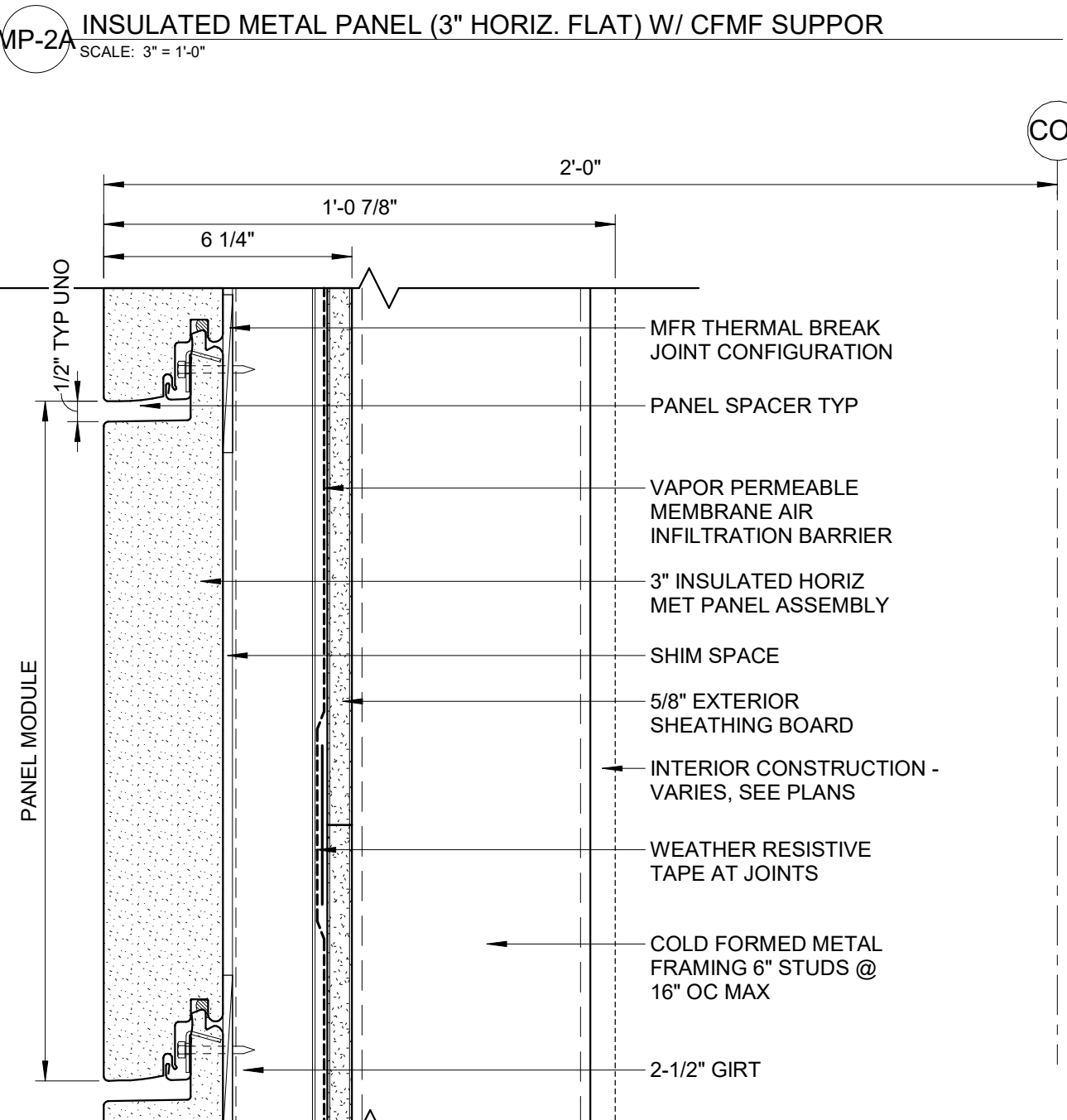
1 TYPICAL VERTICAL JOINT @ MP-2
SCALE: 3/8" = 1'-0"



9 MP-2A - SOFFIT BENT PANEL
SCALE: 3/8" = 1'-0"



6 AL WINDOW SILL @ MP-2
SCALE: 3/8" = 1'-0"



1 TYPICAL VERTICAL JOINT @ MP-2
SCALE: 3/8" = 1'-0"

KEY PLAN

PRINCIPAL: DAVID KEITH
RESEARCH PLANNER: STEPH VARGAS
ARCHITECT: ROBERT MCCONNELL
ARCHITECTURAL DESIGNER: RICARDO MOLINA

REVISIONS		
NO.	BY	DESCRIPTION
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D		10.11.2024
C		ISSUED FOR OWNER'S REVIEW
B		DESIGN DEVELOPMENT

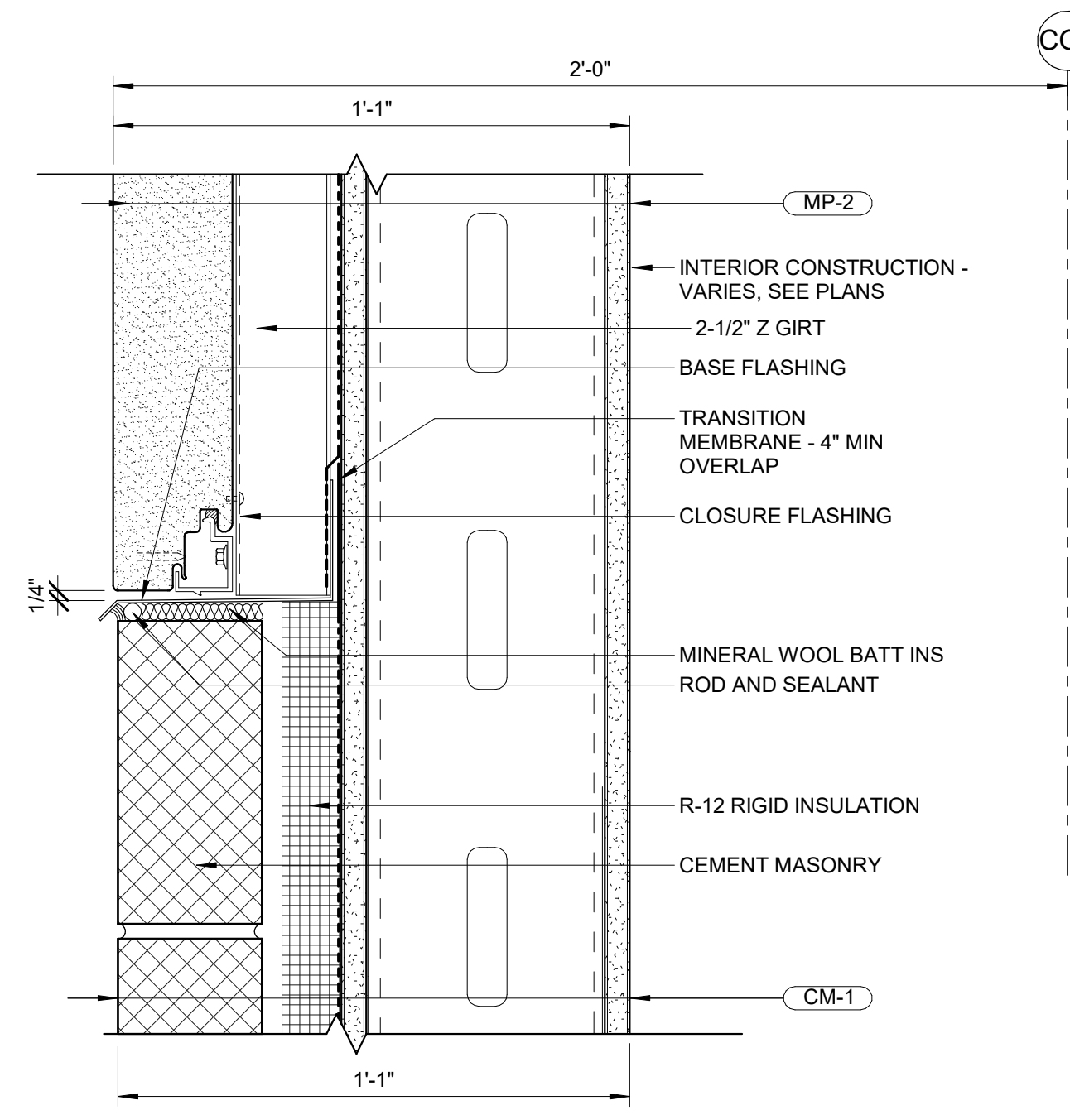
Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY	RM	DATE	11.08.2024
PROJECT NO.	20230523	SCALE	As indicated
DRAWING NAME			
EXTERIOR WALL TYPES & DETAILS			
FLOOR/SECTION PHASE		DRAWING NO.	A4.3.1

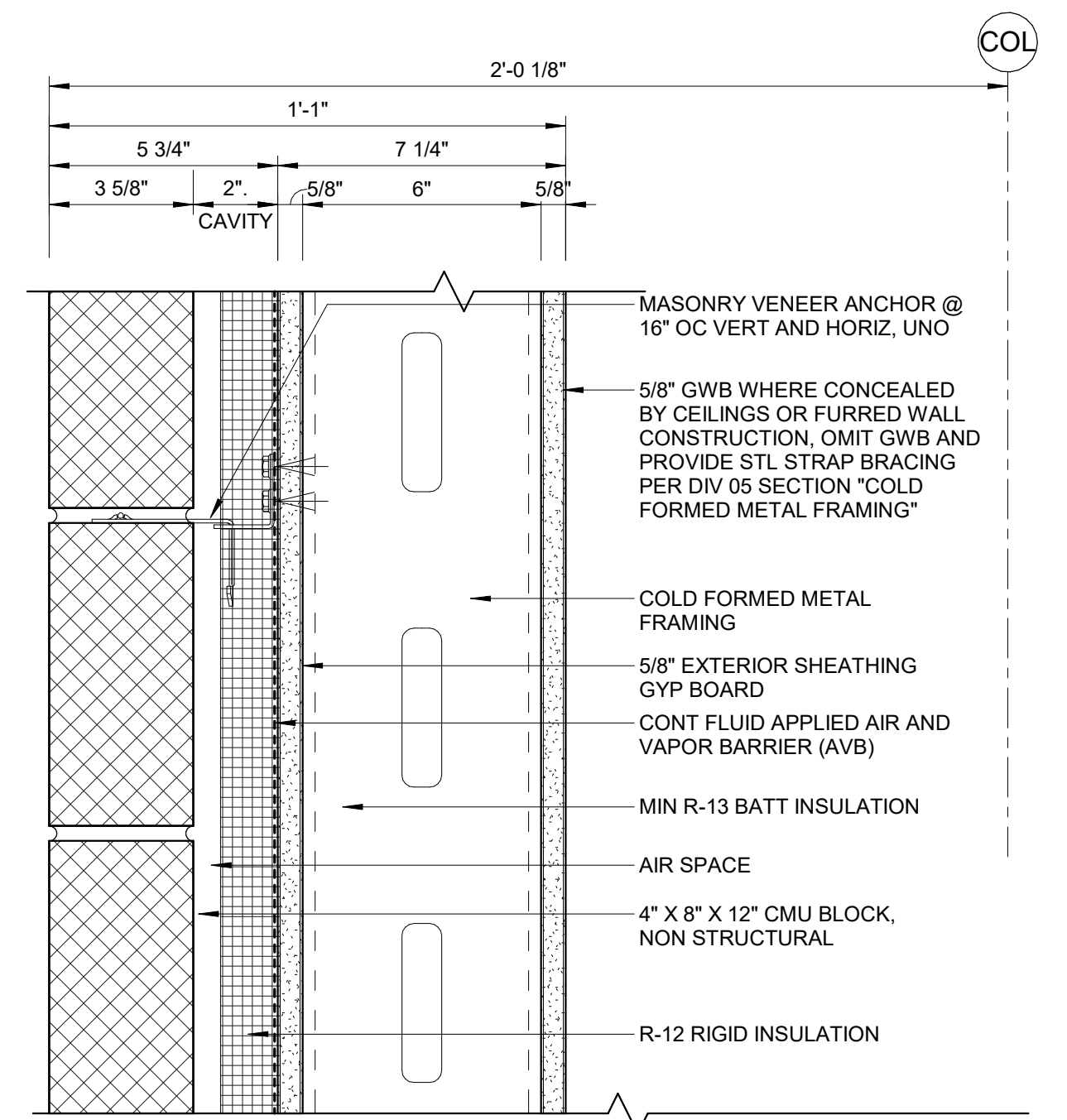
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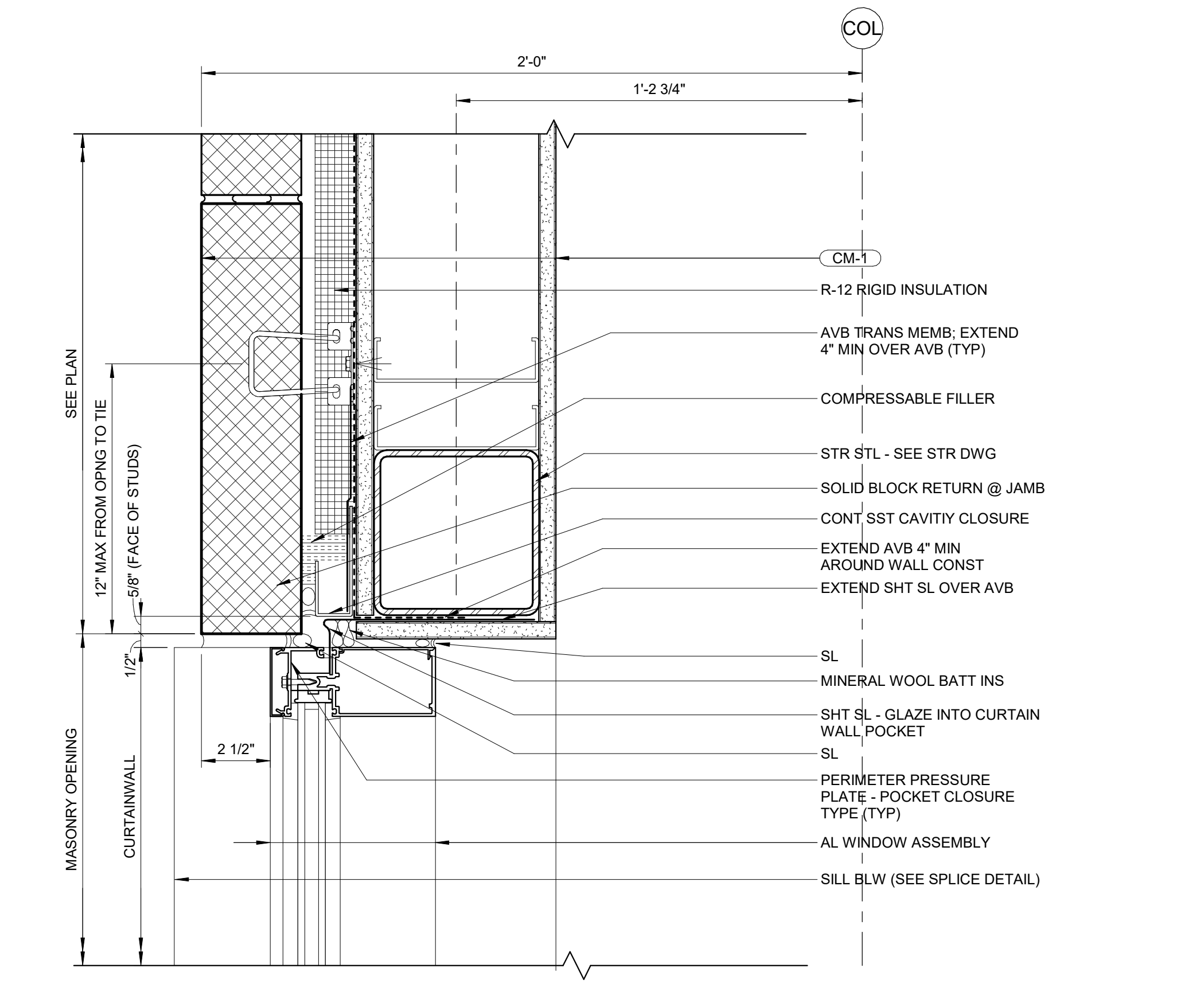
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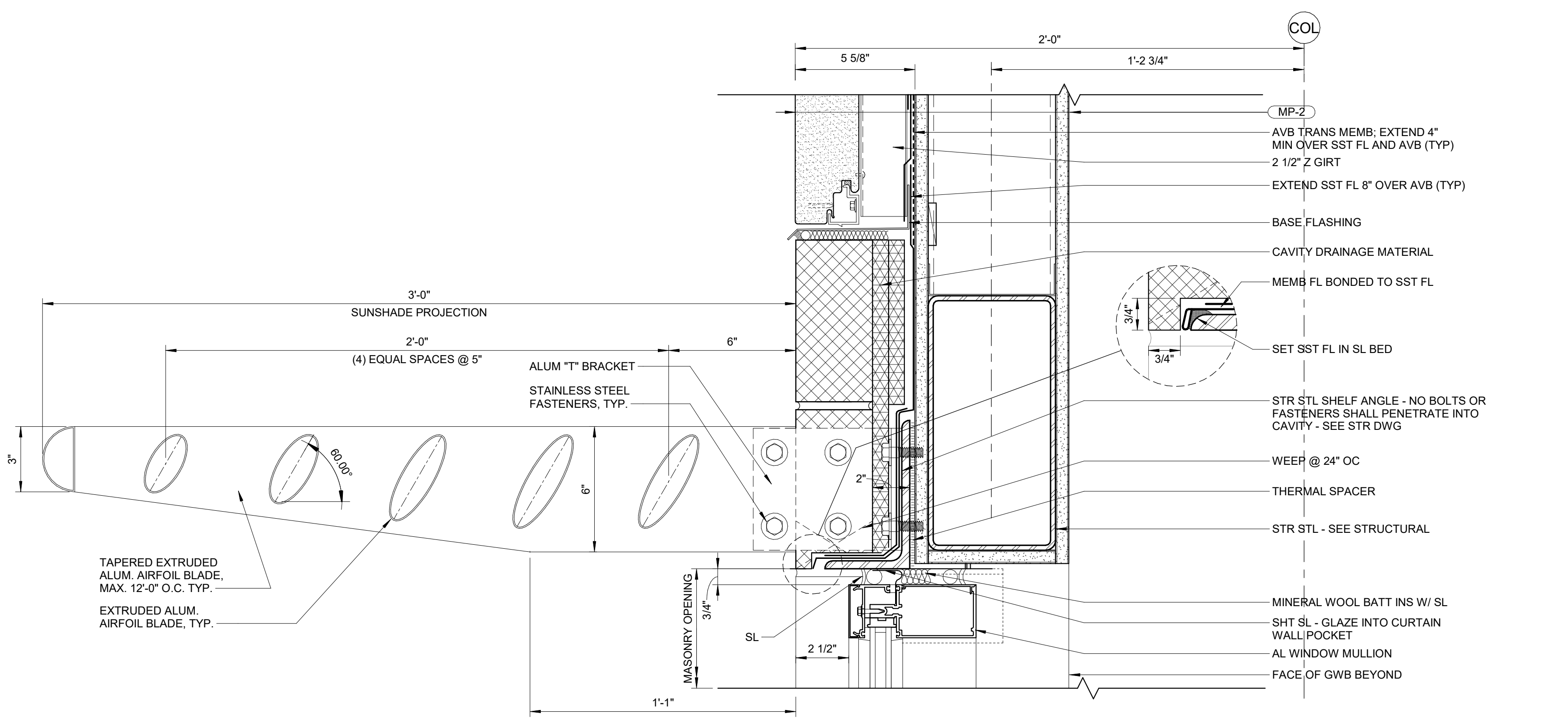
5 MP-2 TO CM-1 CONNECTION
SCALE: 3" = 1'-0"



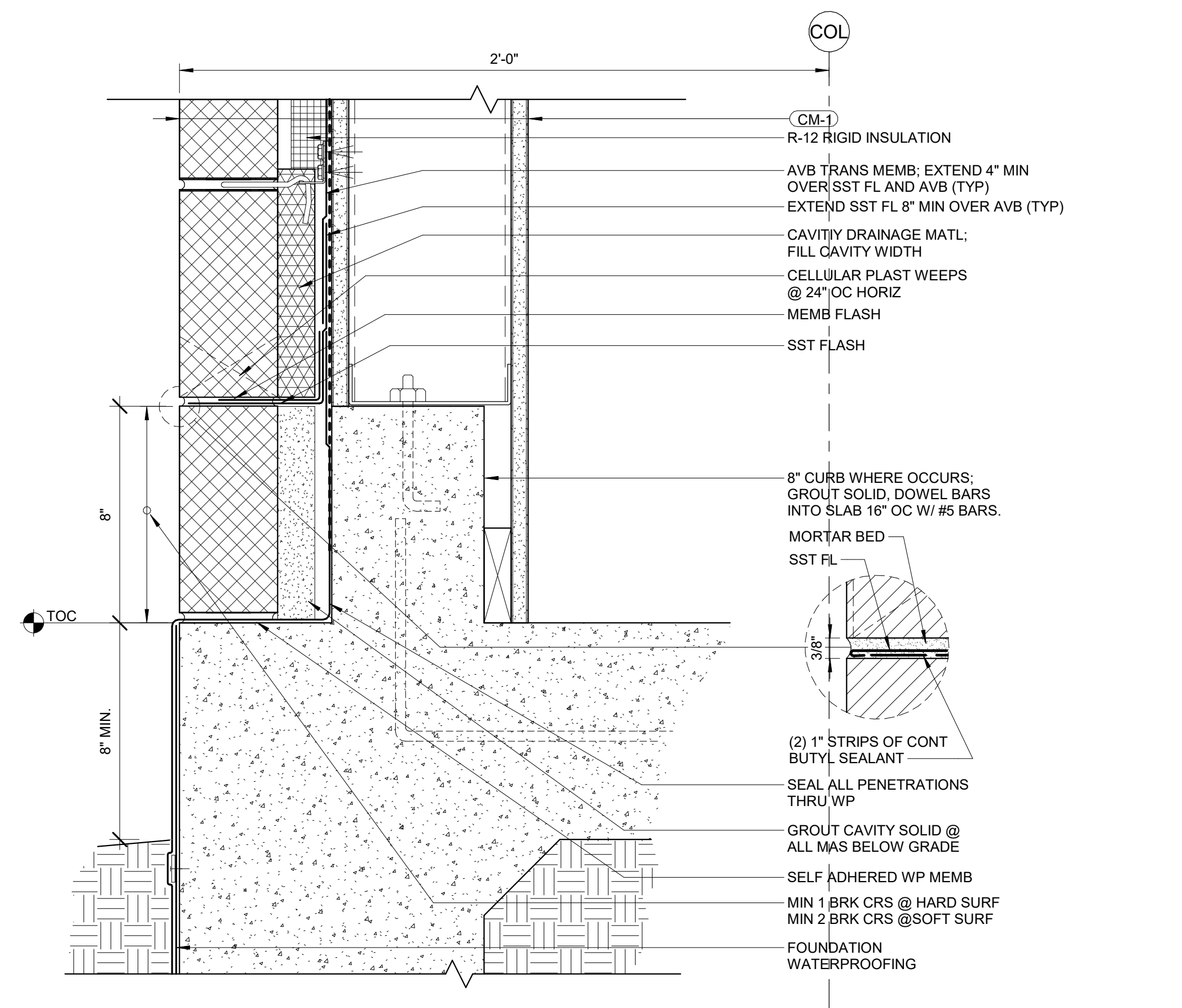
CM-1 CEMENT MASONRY UNIT ASSEMBLY
SCALE: 3" = 1'-0"



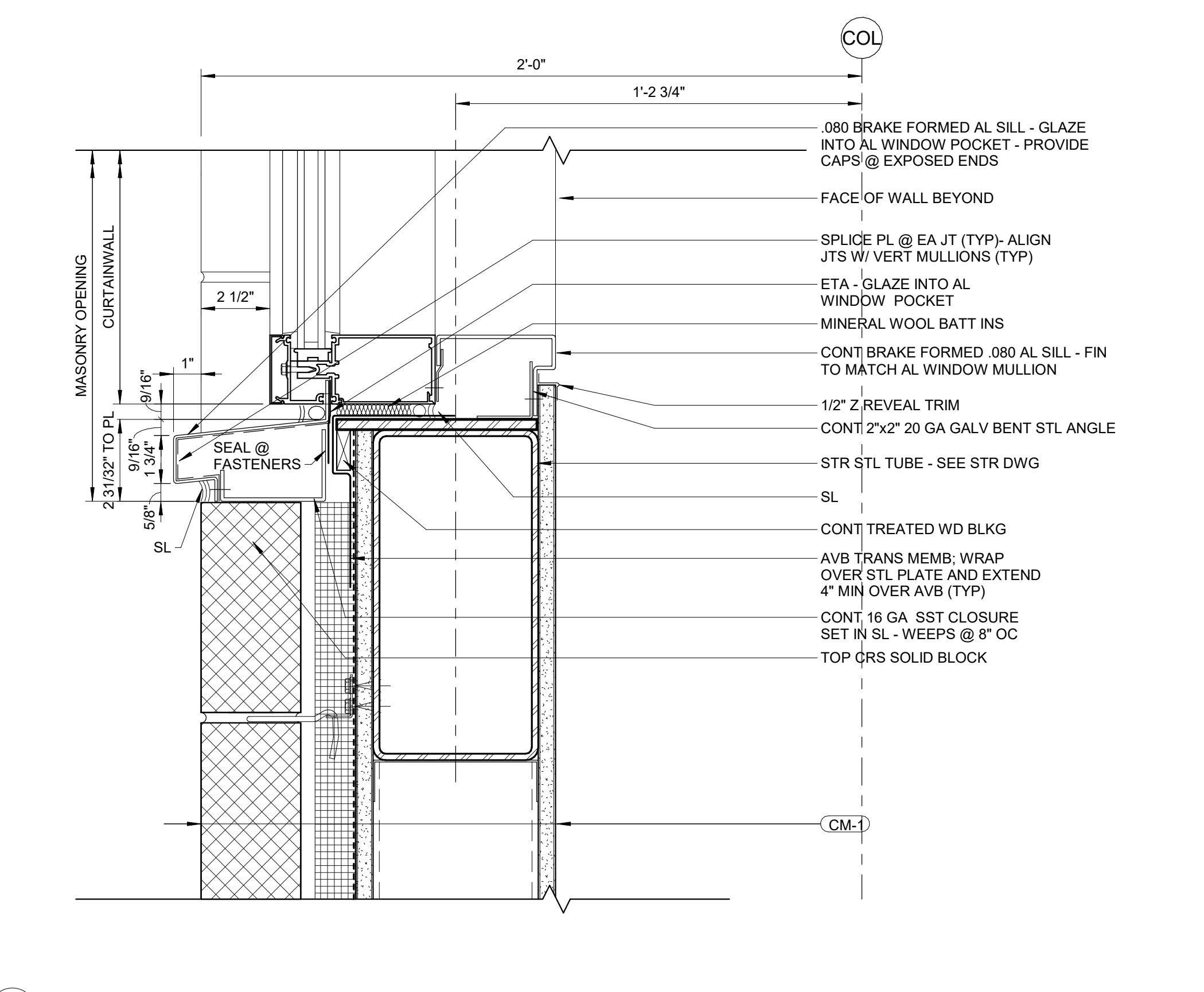
3 AL WINDOW JAMB @ CM-1
SCALE: 3" = 1'-0"



2 AL WINDOW HEAD @ CM-1
SCALE: 3" = 1'-0"



4 FOUNDATION W/ CURB @ CM-1
SCALE: 3" = 1'-0"



1 AL WINDOW SILL @ CM-1
SCALE: 3" = 1'-0"

KEY PLAN

PRINCIPAL
DAVID KEITH
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STEPH VARGAS
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ROBERT MCCONNELL
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RICARDO MOLINA

REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D			10.11.2024
C		ISSUED FOR OWNER'S REVIEW	09.26.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY RM DATE 11.08.2024

PROJECT NO. 20230523 SCALE 3" = 1'-0"
DRAWING NAME

FLOOR/SECTION PHASE DRAWING NO.

EXTERIOR WALL TYPES & DETAILS
CD A4.3.2

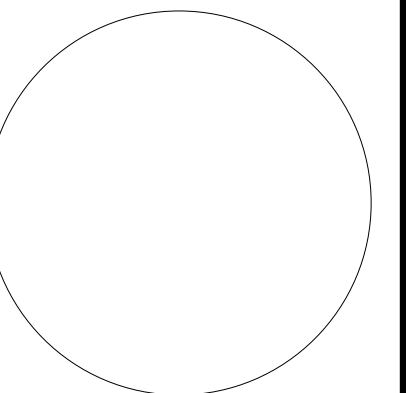
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KEY PLAN

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REVISIONS

NO.	BY	DESCRIPTION	DATE
1		ISSUED FOR GC BIDDING	11.08.2024
2			10.11.2024

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700 South M.L.K. Blvd
Las Vegas, NV 89106

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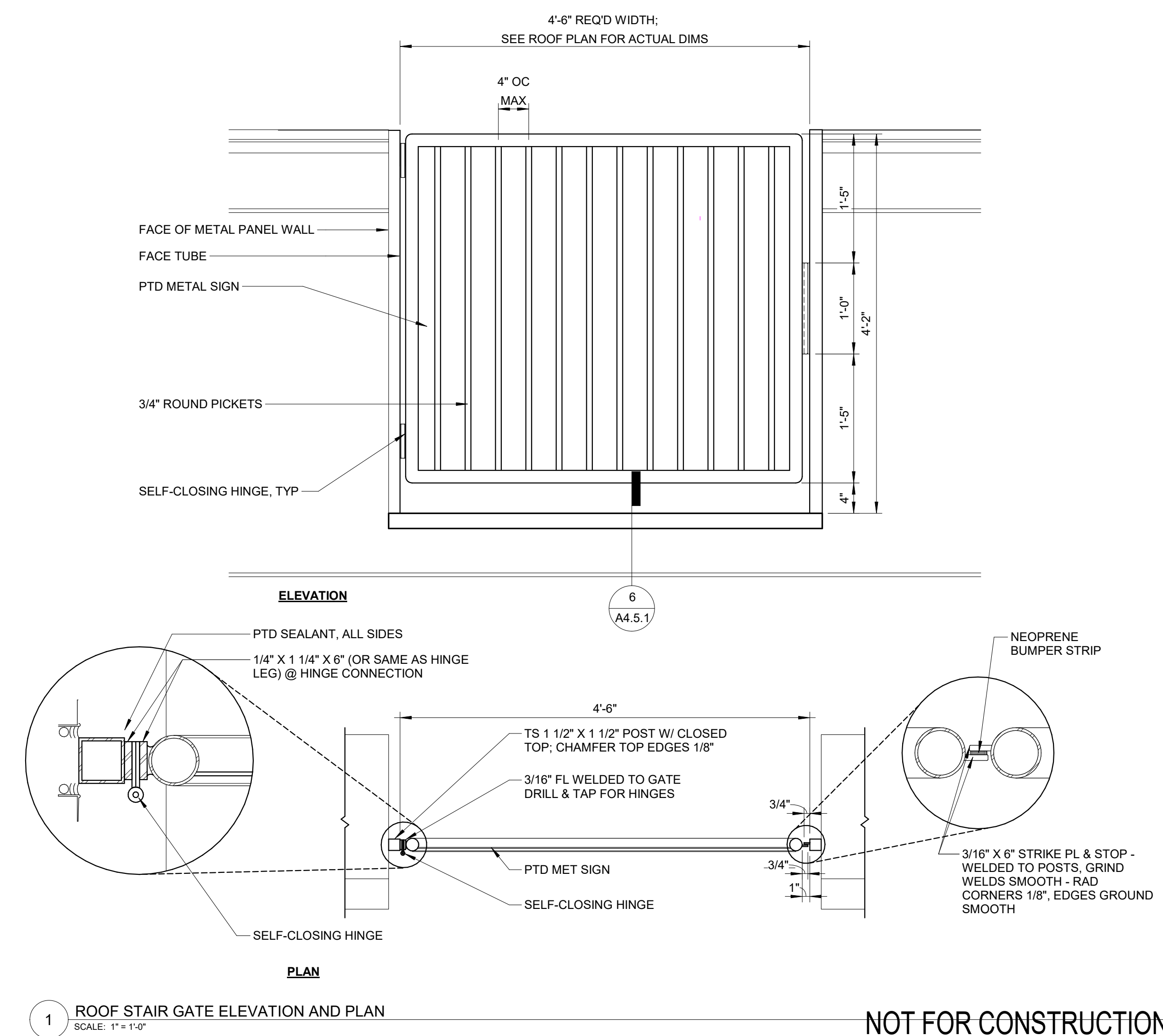
PROJECT NO. 20230523 SCALE 1" = 1'-0"

DRAWING NAME

EXTERIOR DETAILS

FLOOR/SECTION PHASE DRAWING NO.

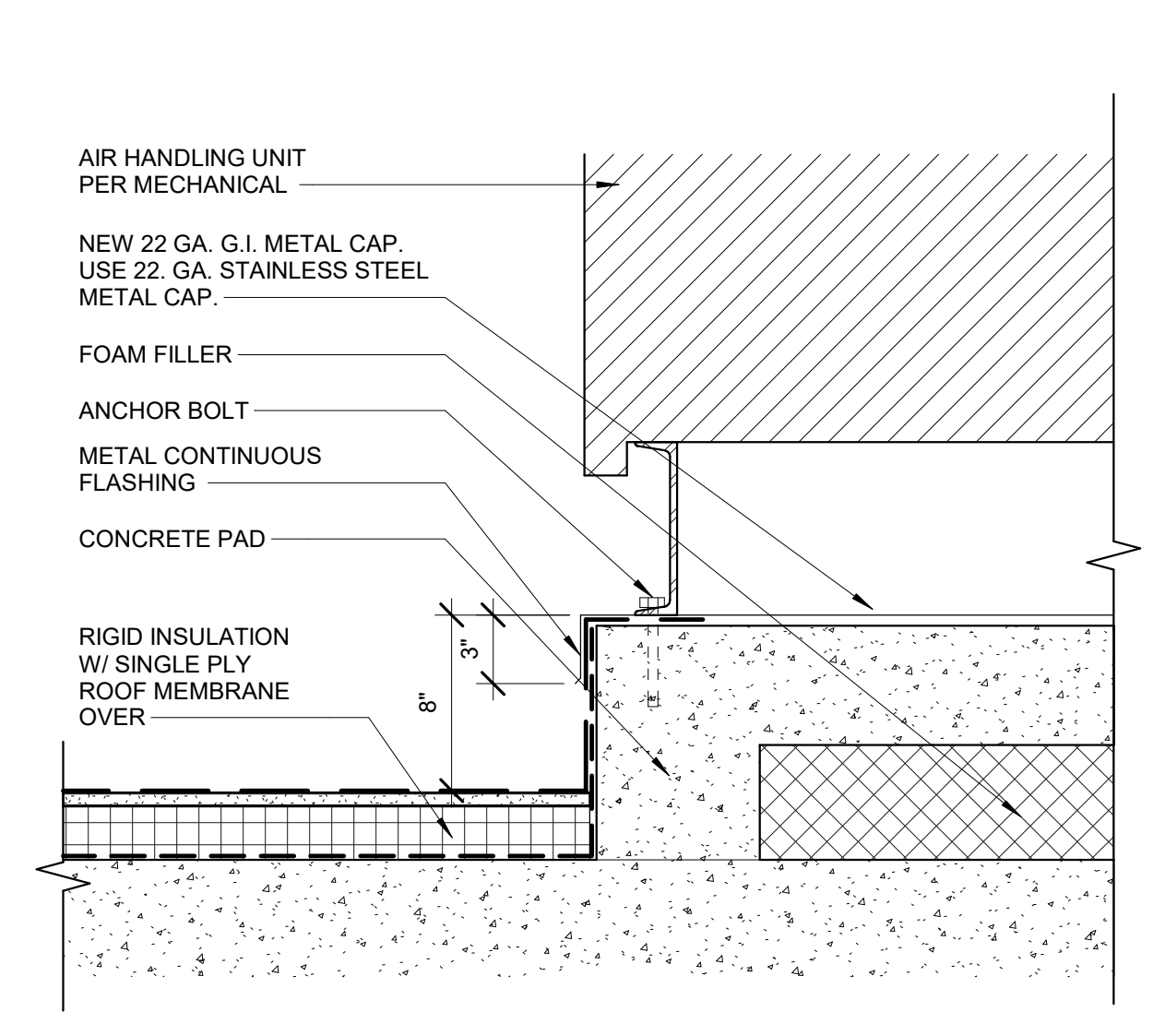
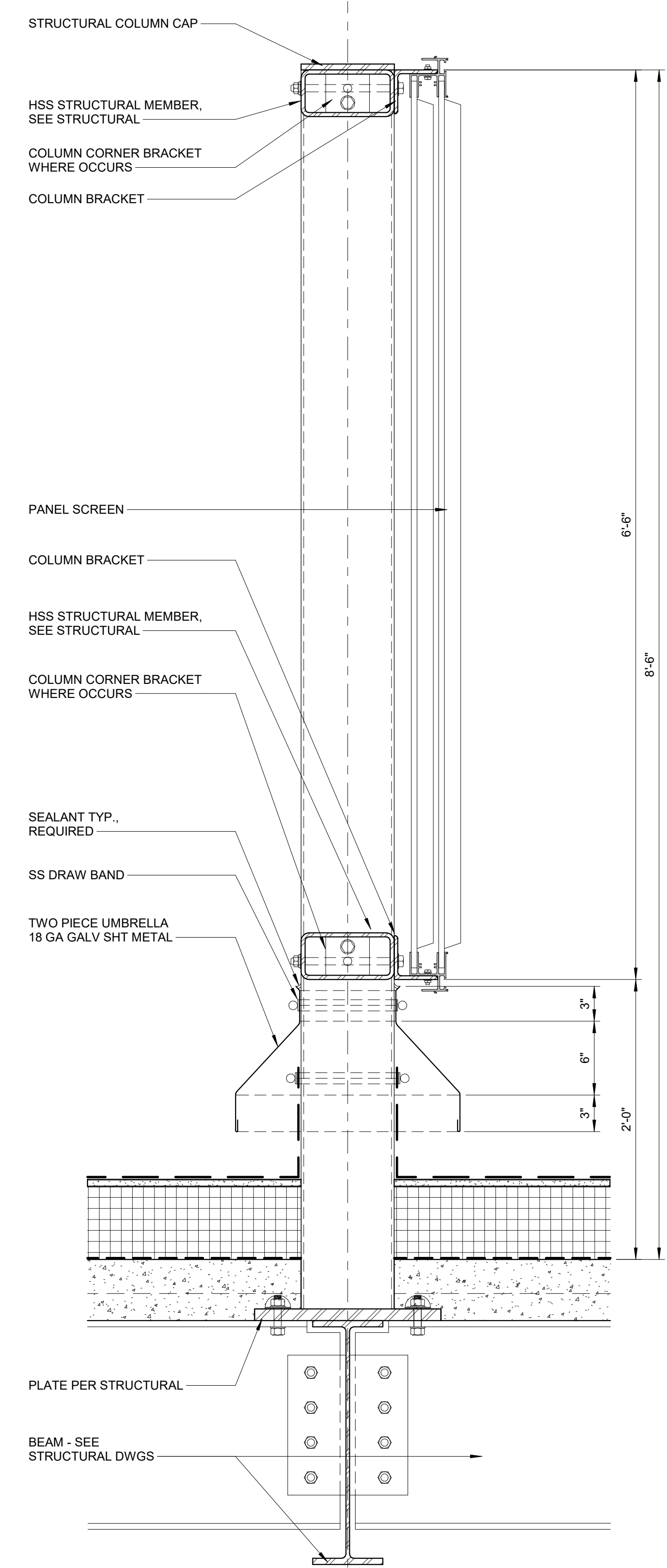
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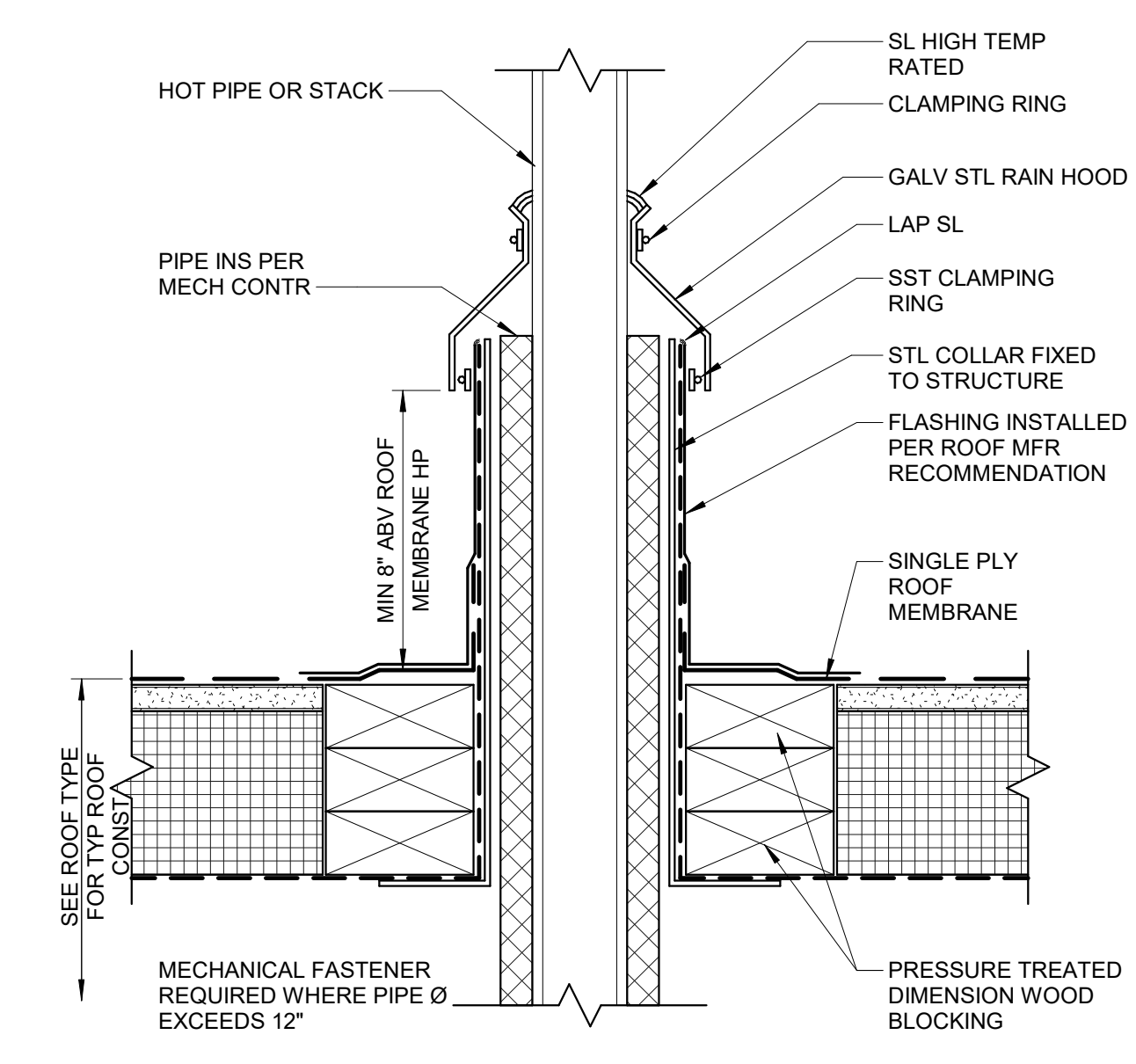
1 ROOF STAIR GATE ELEVATION AND PLAN
SCALE: 1" = 1'-0"

NOT FOR CONSTRUCTION

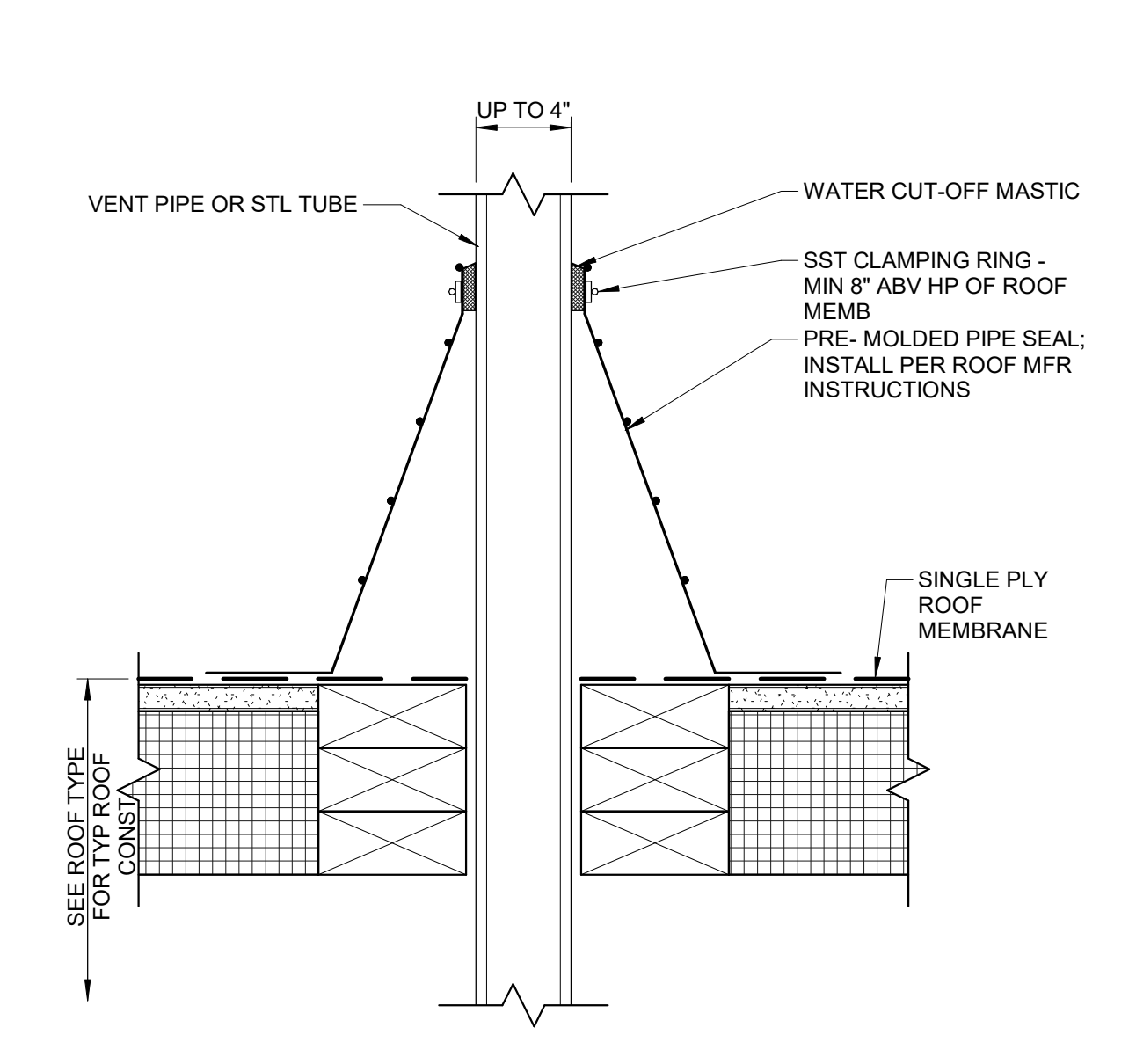
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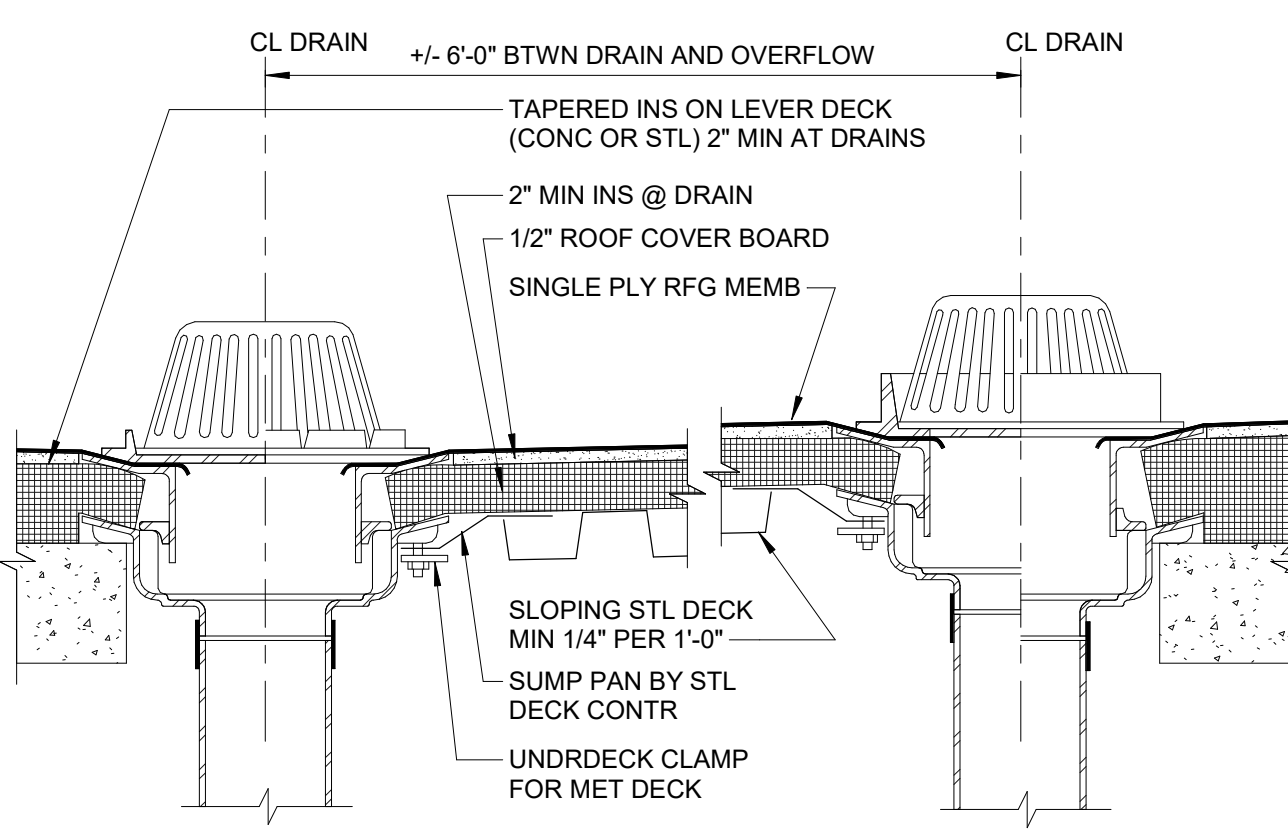
12 EQUIPMENT PAD ON DECK
SCALE: 1/12" = 1'-0"



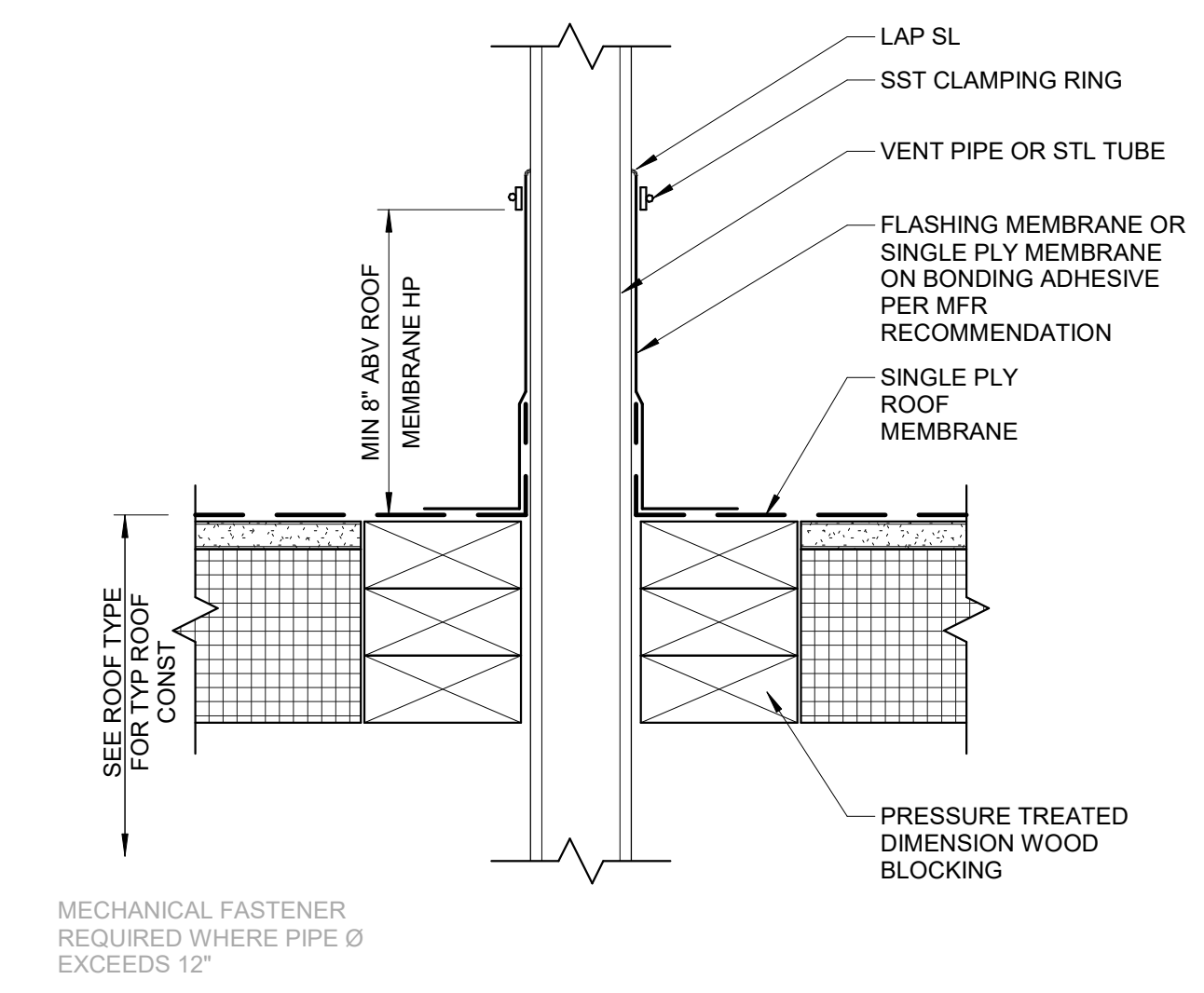
8 FIELD FABRICATED ROOF PENETRATION FLASHING @ HOT PIPE
SCALE: 3" = 1'-0"



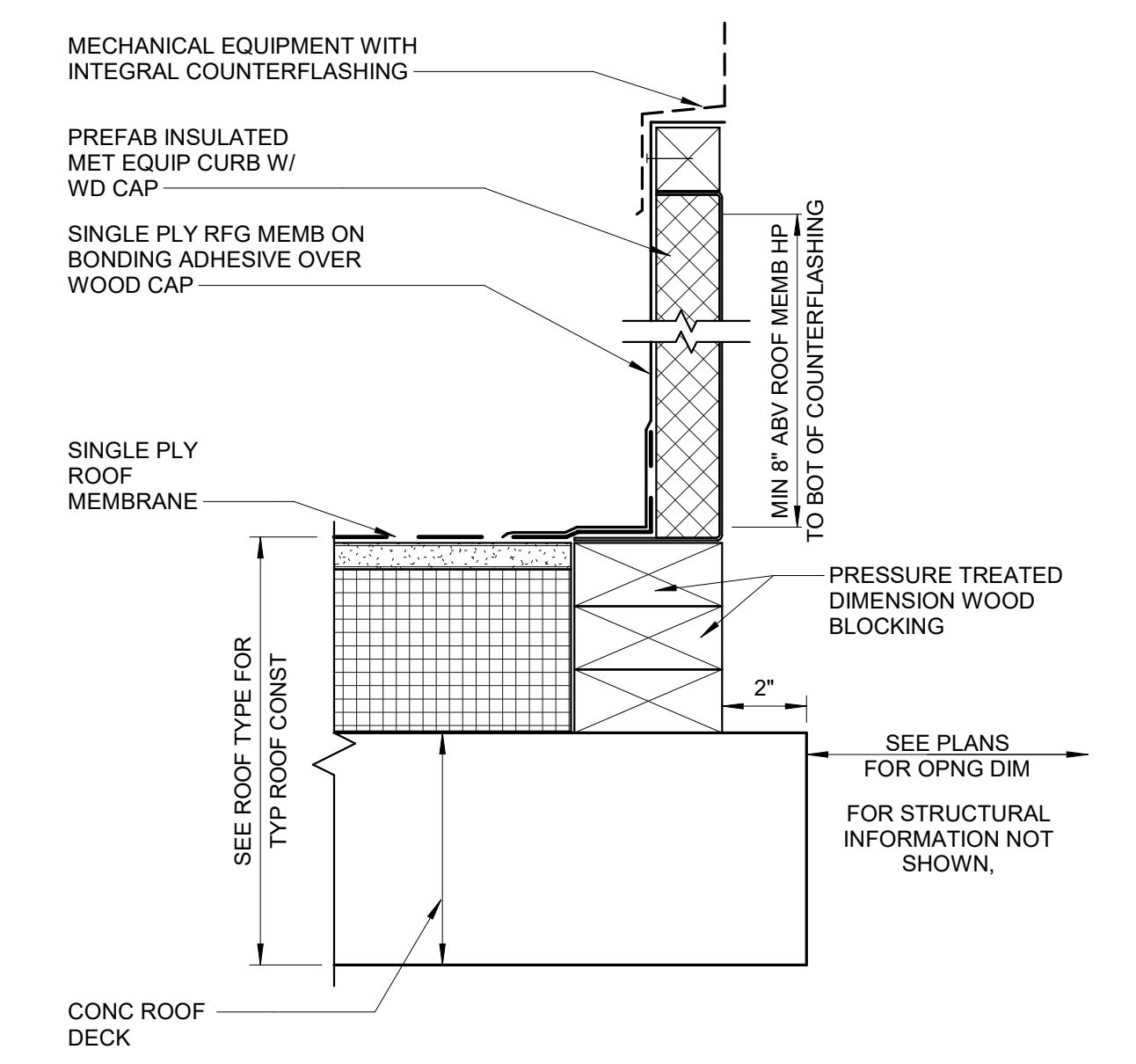
4 PRE-MOLDED VENT PIPE FLASHING @ COLD PIPE (4" MAX)
SCALE: 3" = 1'-0"



11 TYP ROOF DRAIN & OVERFLOW FOR ADHERED / MECH FASTENED
SCALE: 1/12" = 1'-0"

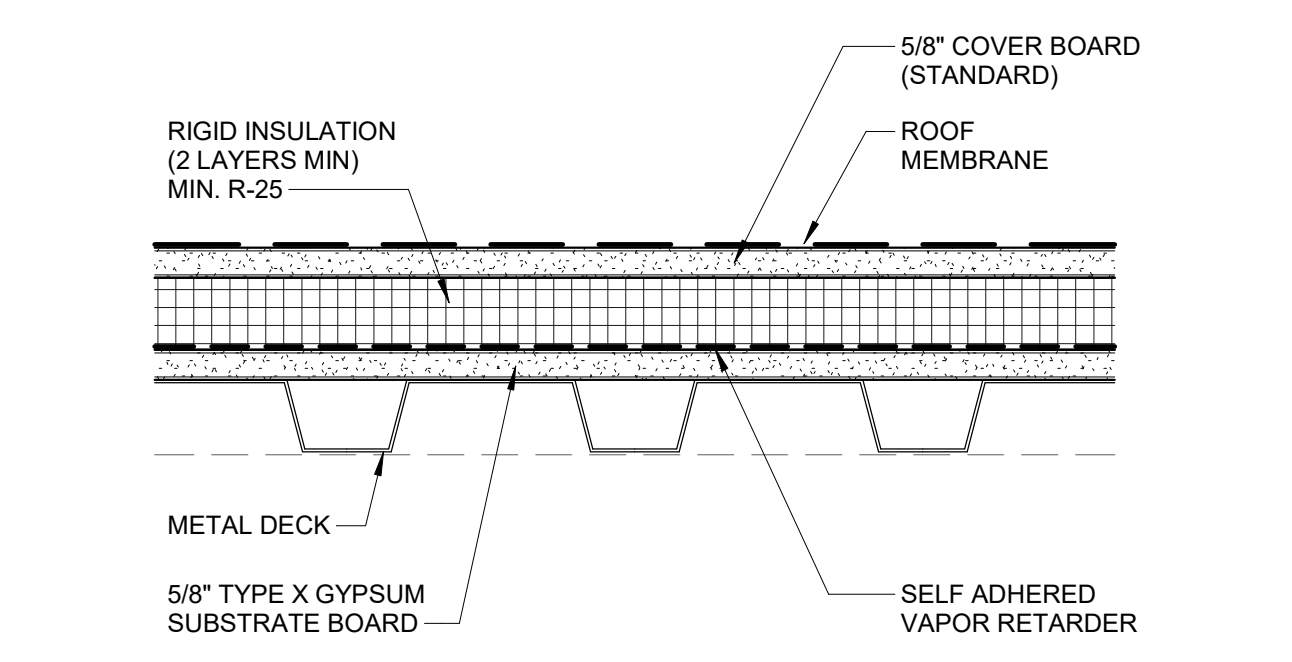
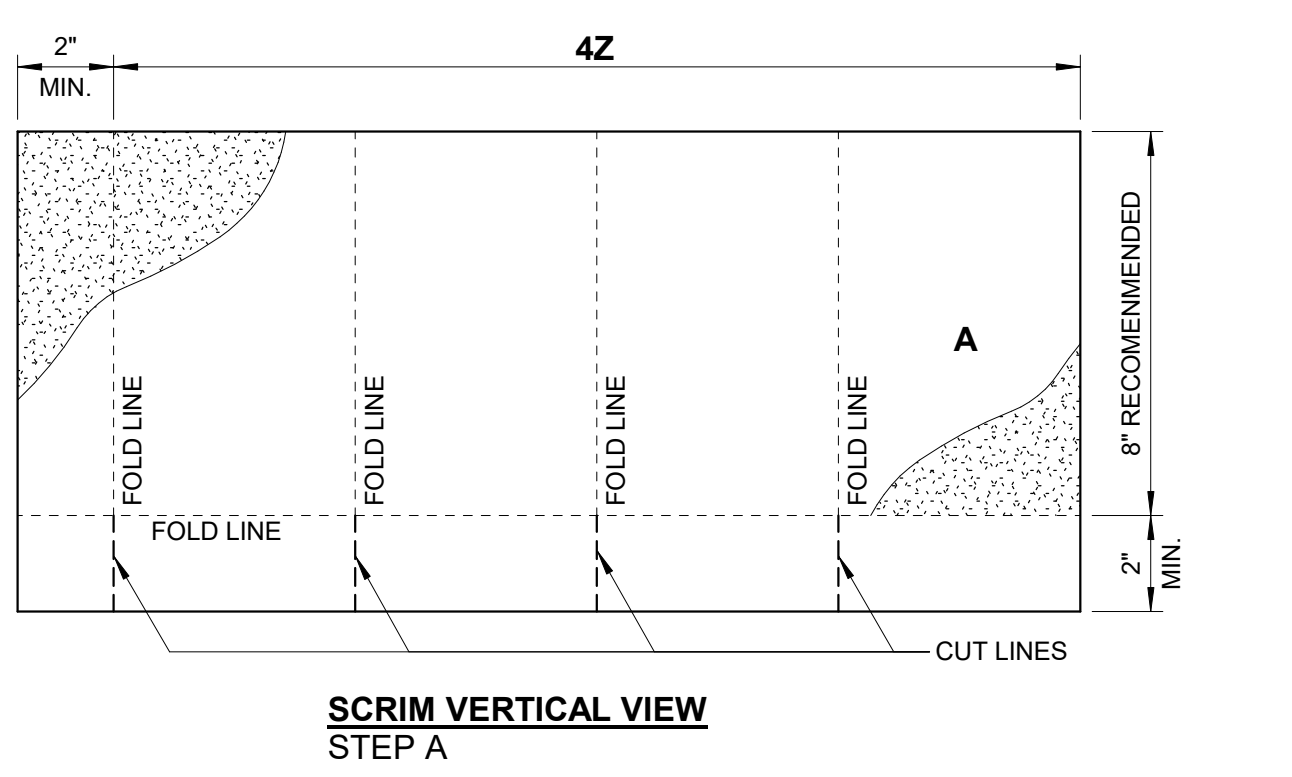
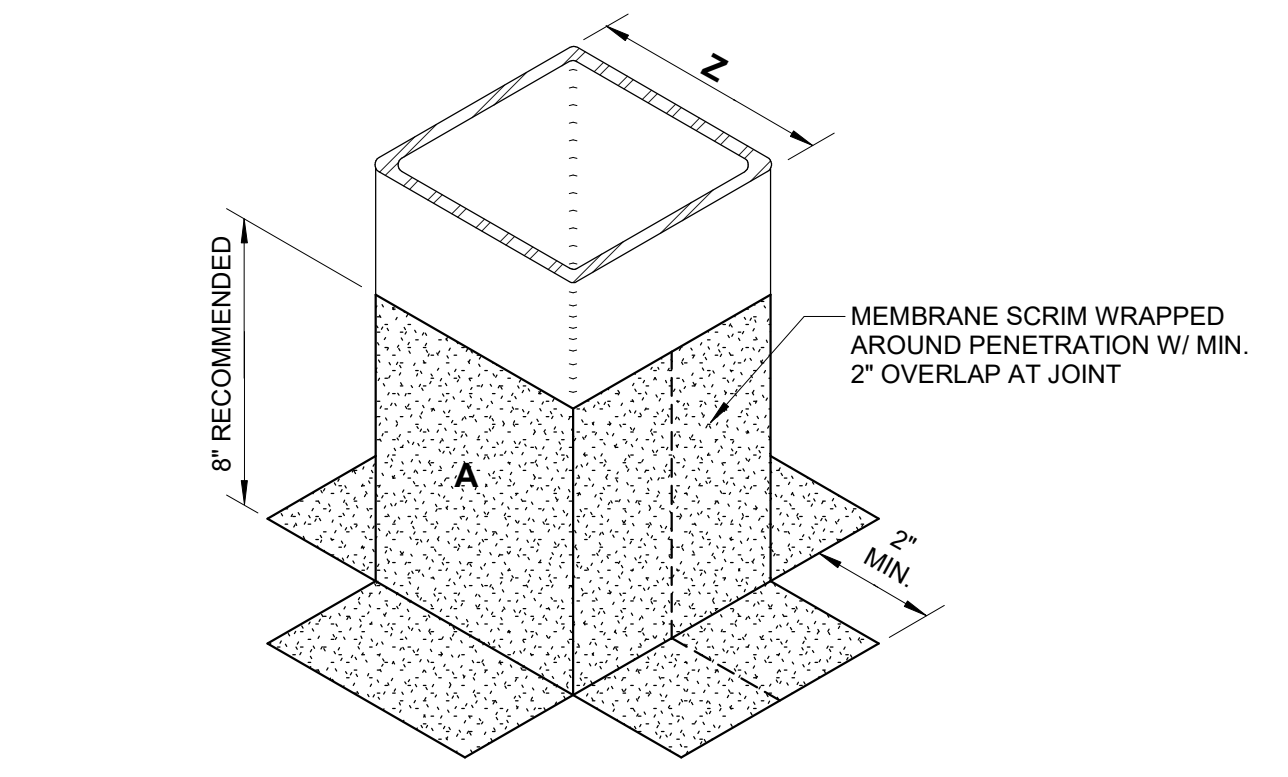


7 FIELD FABRICATED ROOF PENETRATION FLASHING @ COLD PIPE
SCALE: 3" = 1'-0"

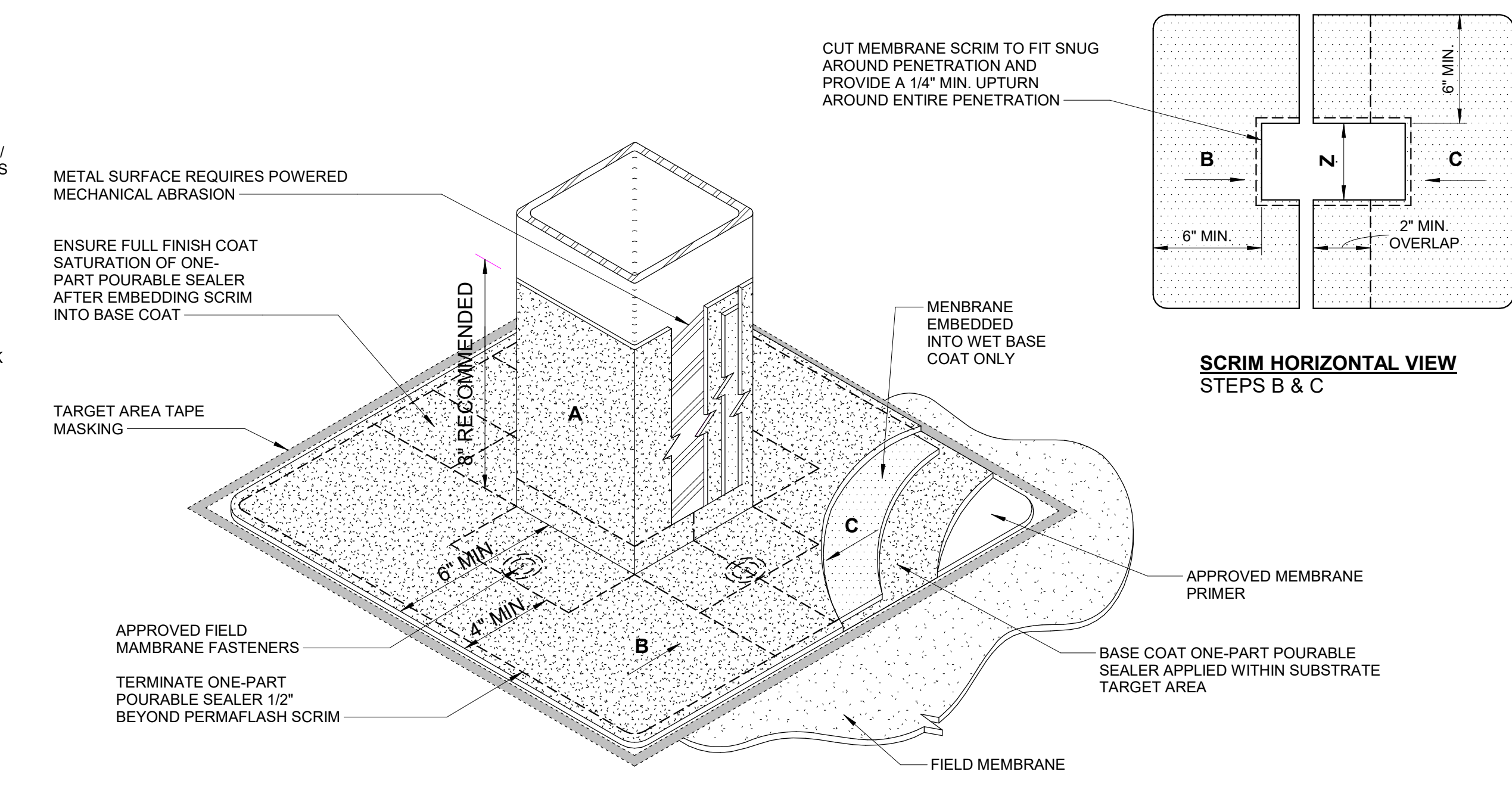
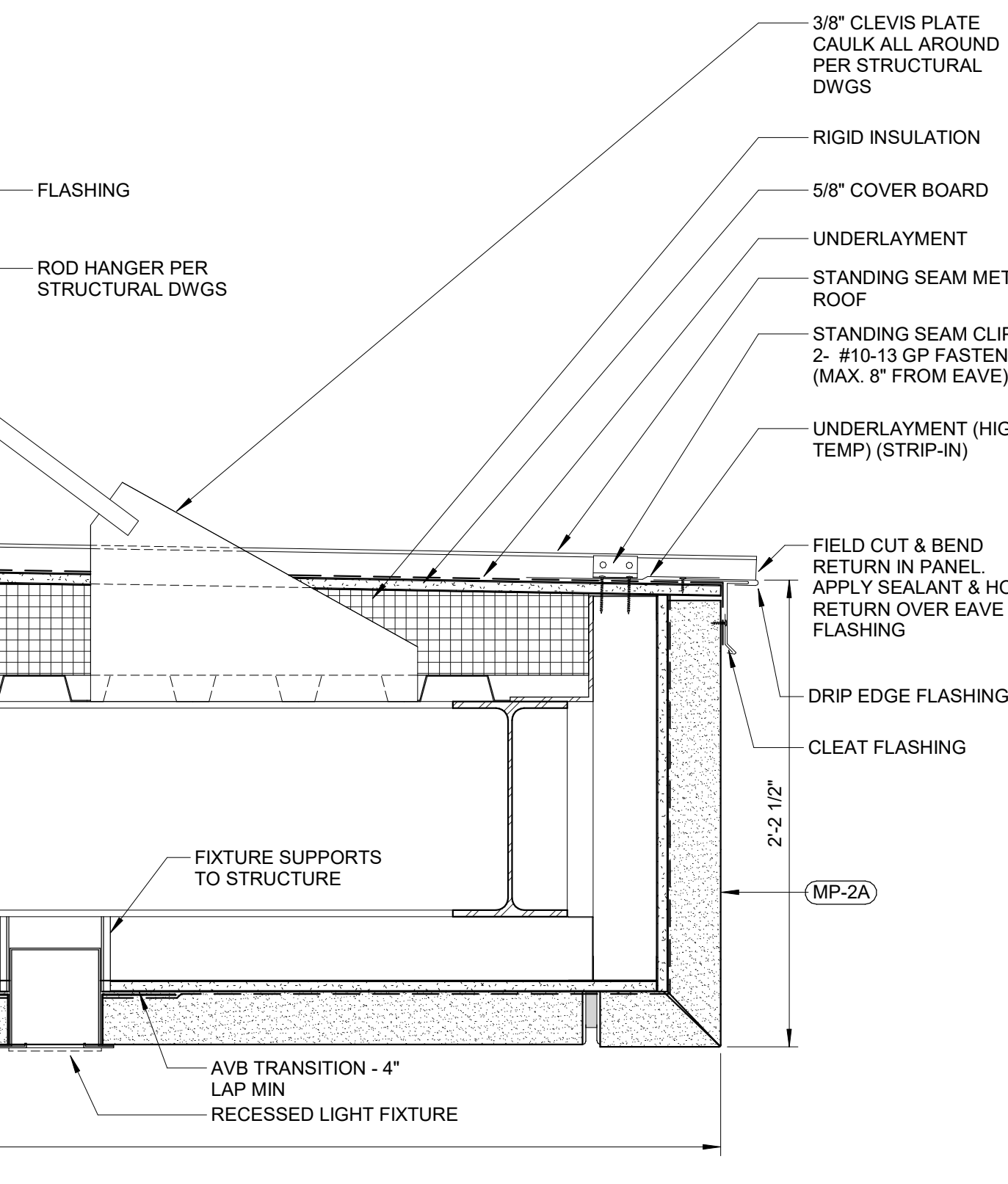


3 ROOF TOP EQUIPMENT CURB @ CONCRETE DECK
SCALE: 3" = 1'-0"

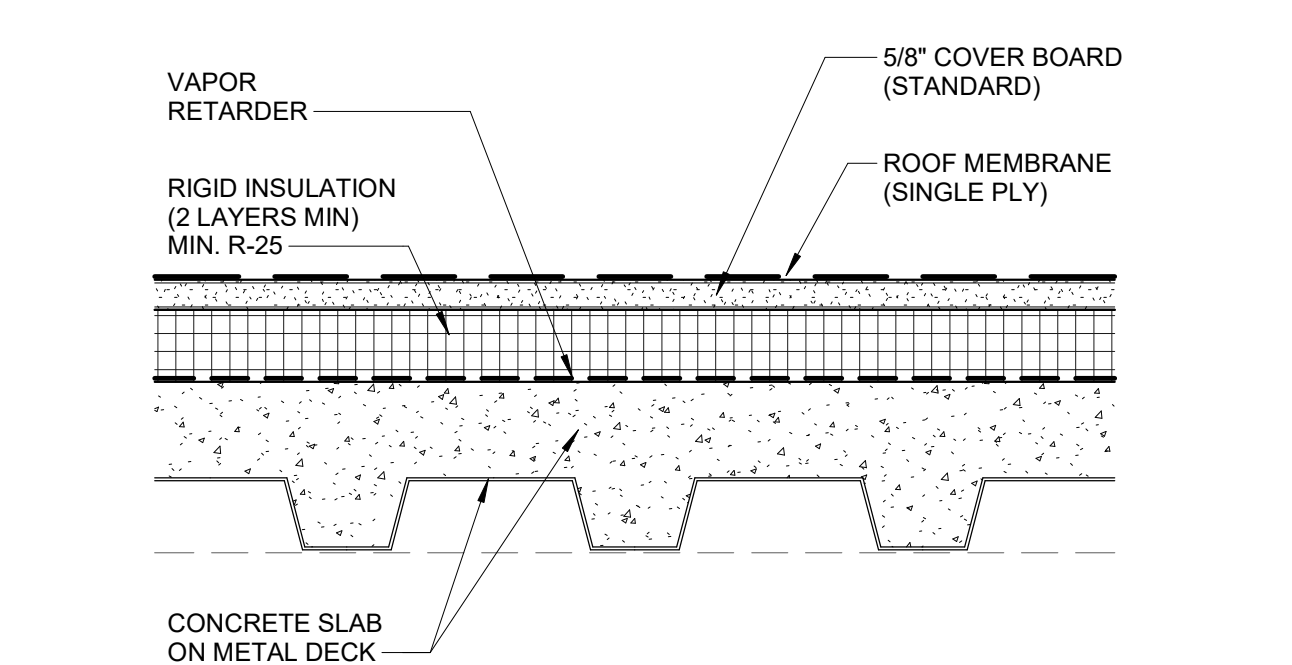
5 MECHANICAL EQUIPMENT ROOF SCREEN
SCALE: 1/12" = 1'-0"



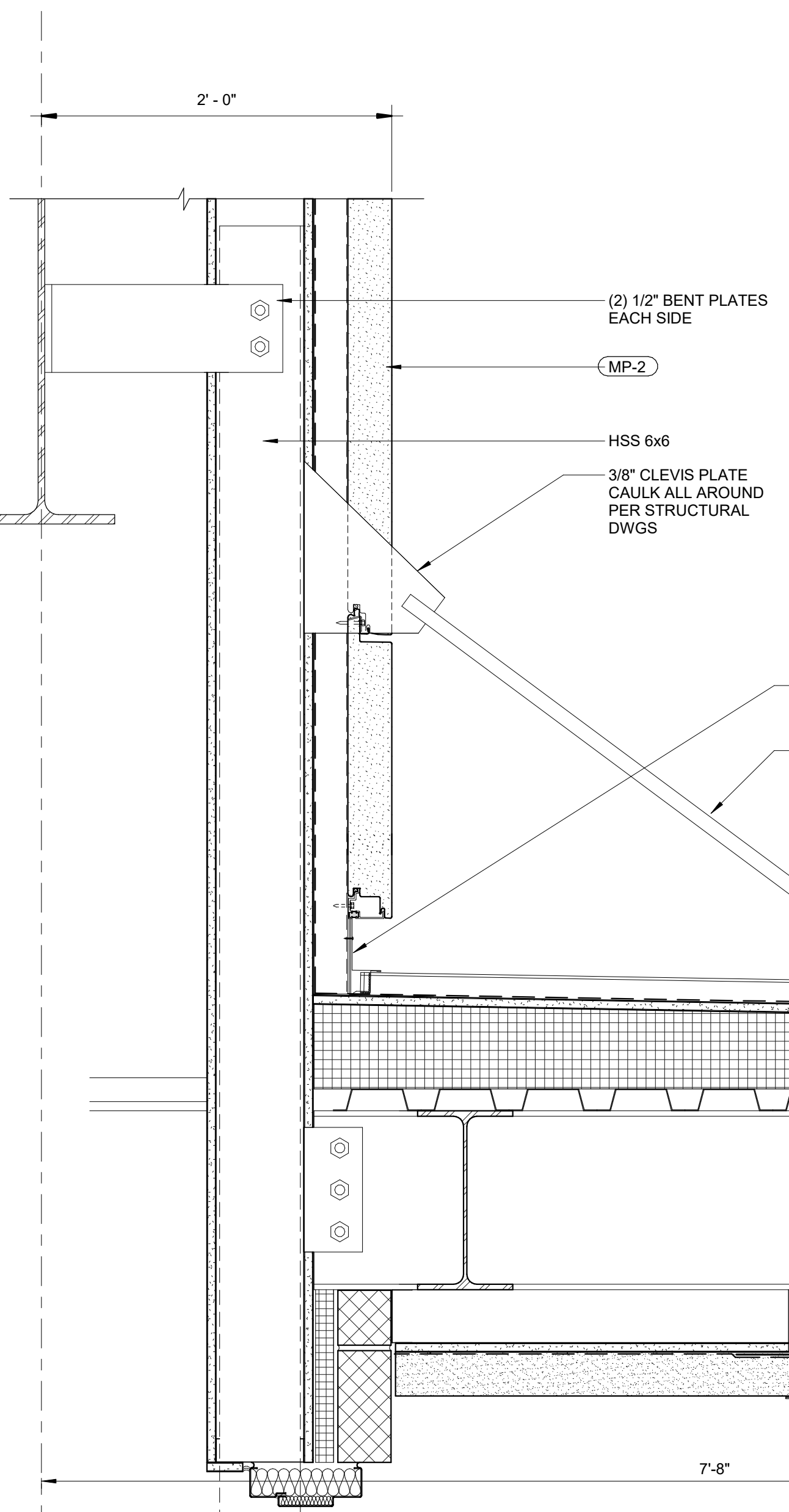
2 RS1-VF - SINGLE PLY ADHERED MEMBRANE OVER METAL DECK
SCALE: 3" = 1'-0"



9 SQUARE TUBE ROOF MEMBRANE PENETRATION
SCALE: 3" = 1'-0"



1 RS3-V - SINGLE PLY ADHERED MEMBRANE OVER CONCRETE
SCALE: 3" = 1'-0"



17 MP-2A ENTRY CANOPY
SCALE: 1/12" = 1'-0"

KEY PLAN

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ARCHITECT
ROBERT MCCONNELL
ARCHITECTURAL DESIGNER
RICARDO MOLINA

REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D			10.11.2024
C		ISSUED FOR OWNER'S REVIEW	09.26.2024
B		DESIGN DEVELOPMENT	05.24.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY RM DATE 11.08.2024

PROJECT NO. 20230523 SCALE

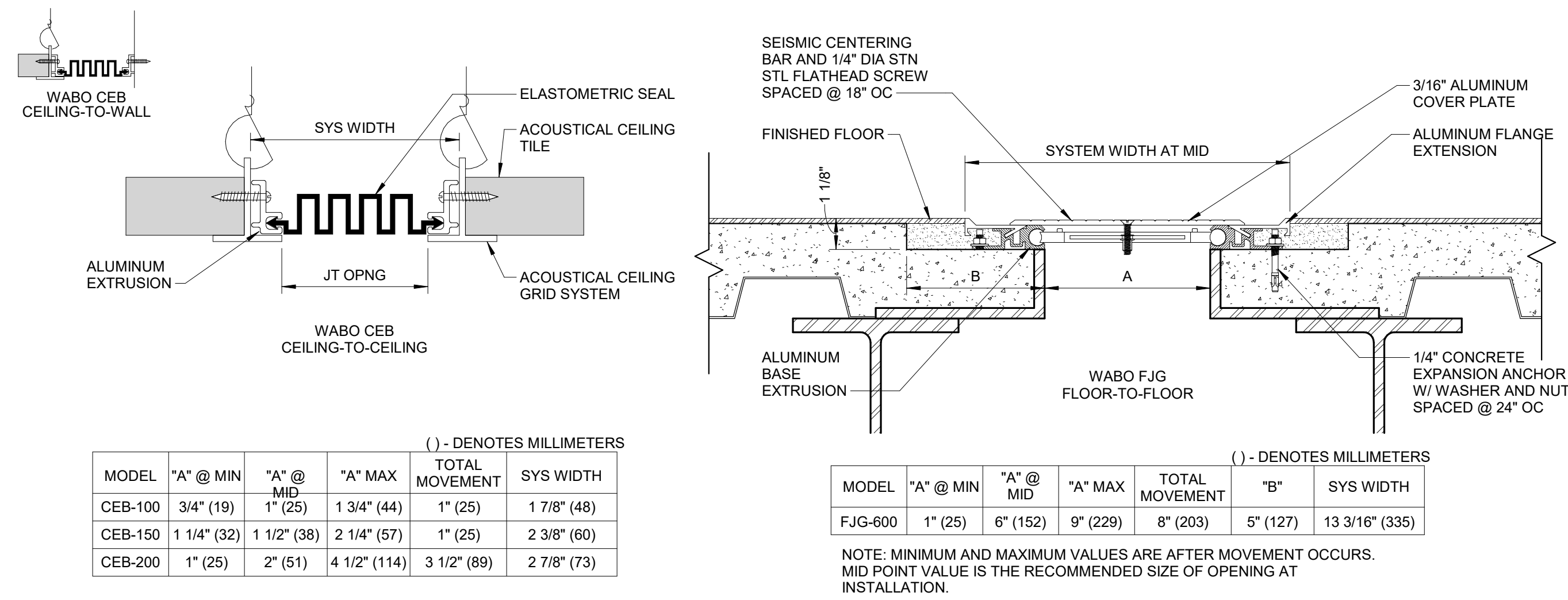
DRAWING NAME

FLOOR/SECTION PHASE DRAWING NO.

ROOFING DETAILS
CD A4.3.4

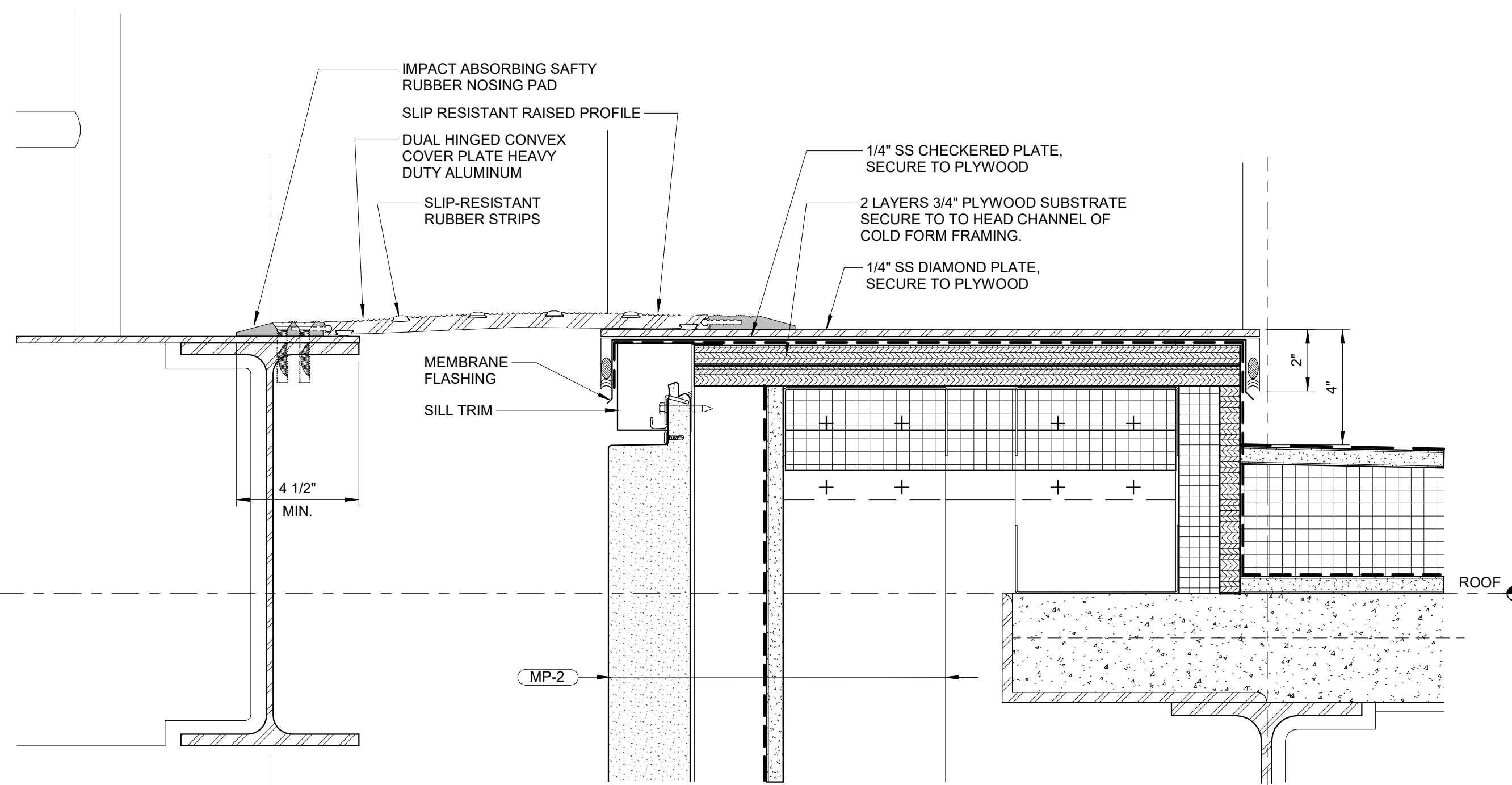
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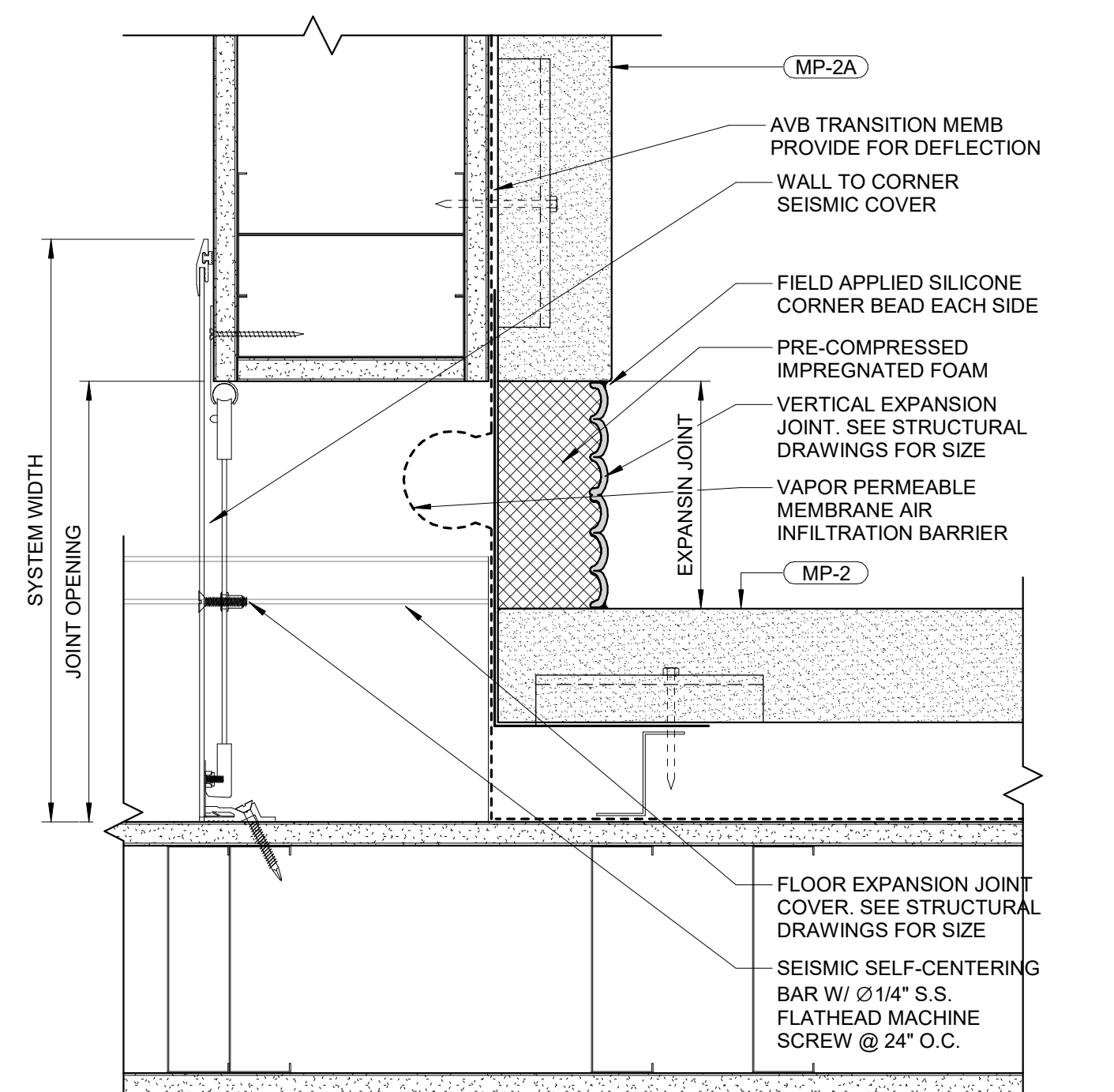


7 WABO CEB - CORRIDOR WRAP
SCALE: 3" = 1'-0"

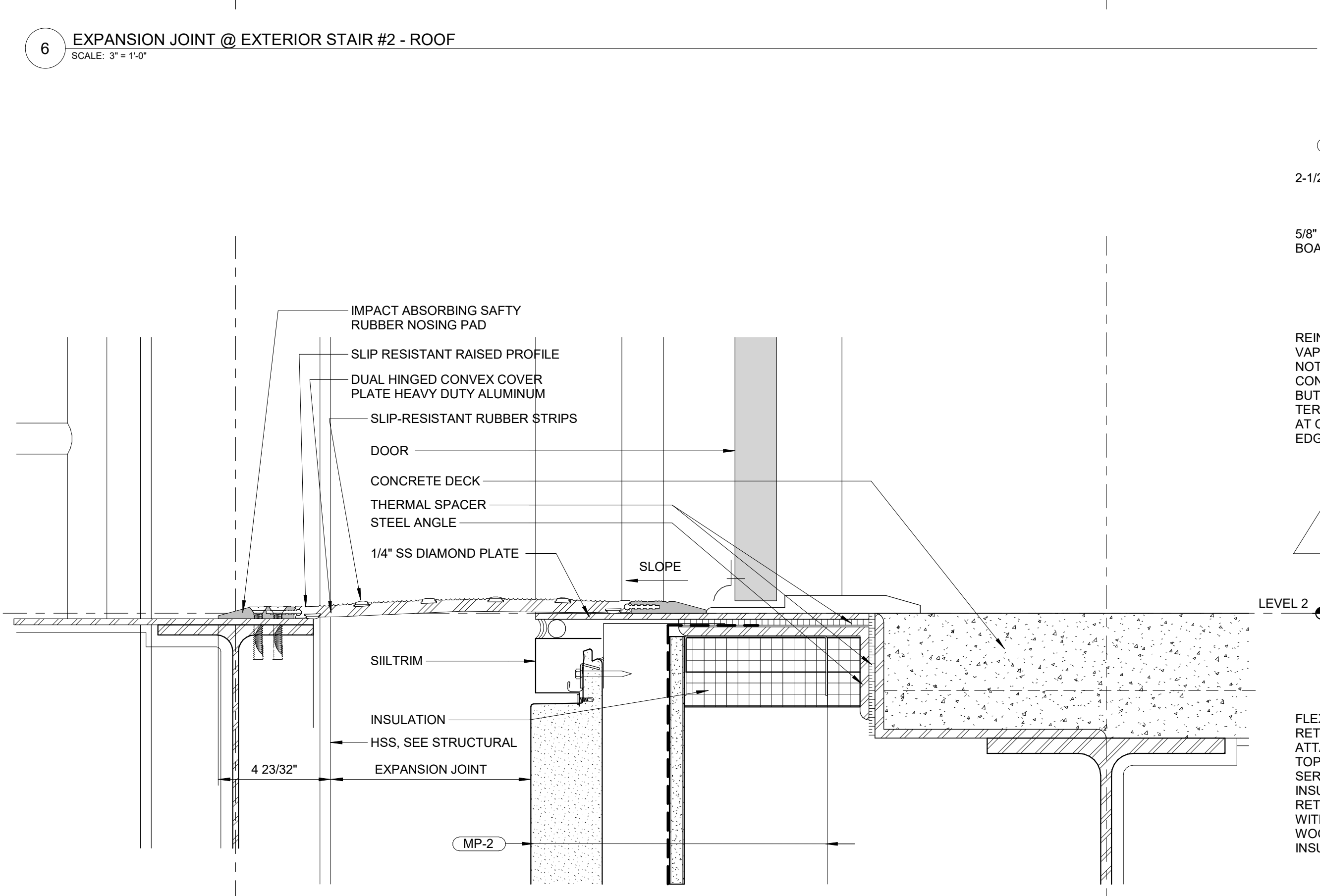
4 EXPANSION JOINT @ FLOOR
SCALE: 3" = 1'-0"



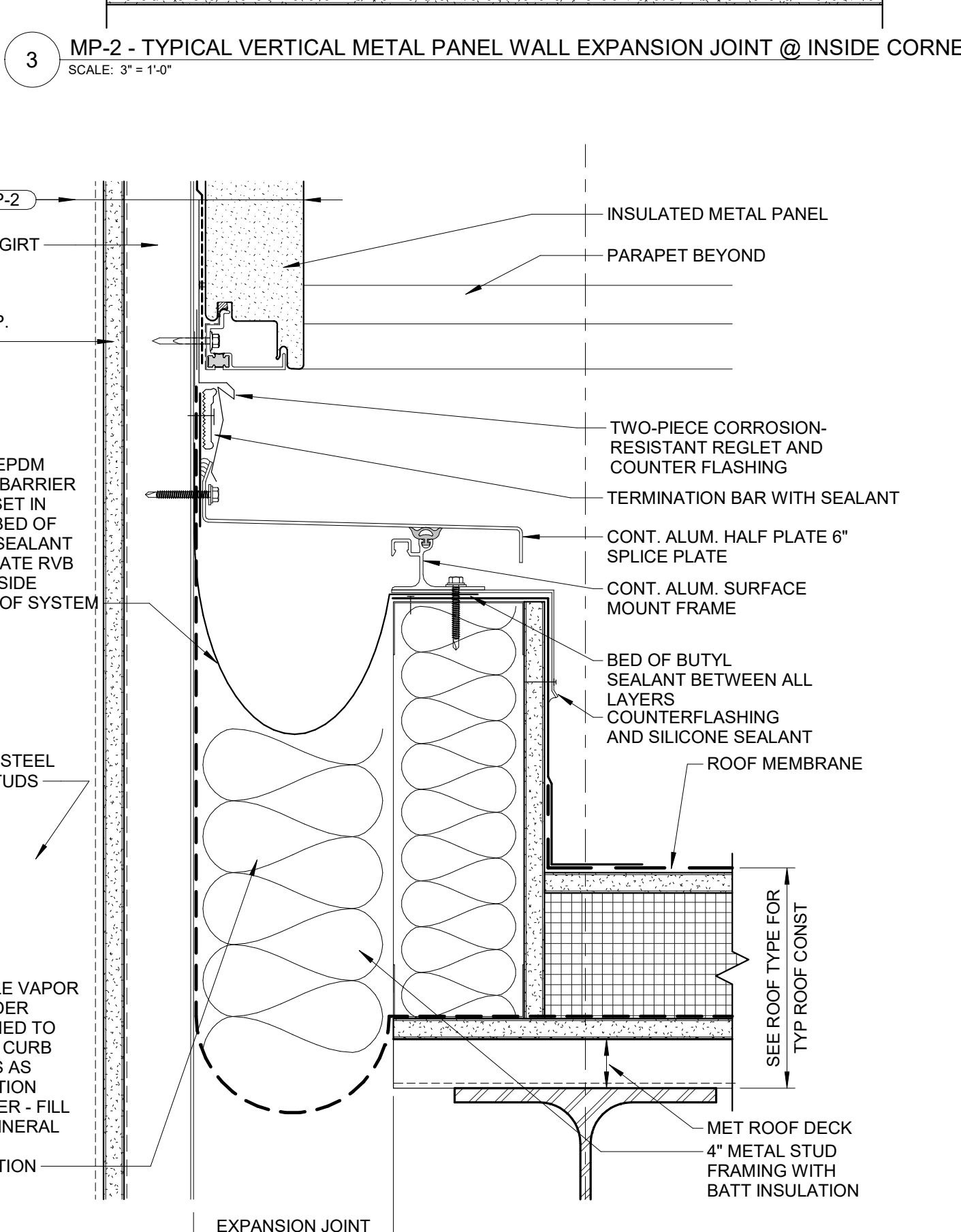
6 EXPANSION JOINT @ EXTERIOR STAIR #2 - ROOF
SCALE: 3" = 1'-0"



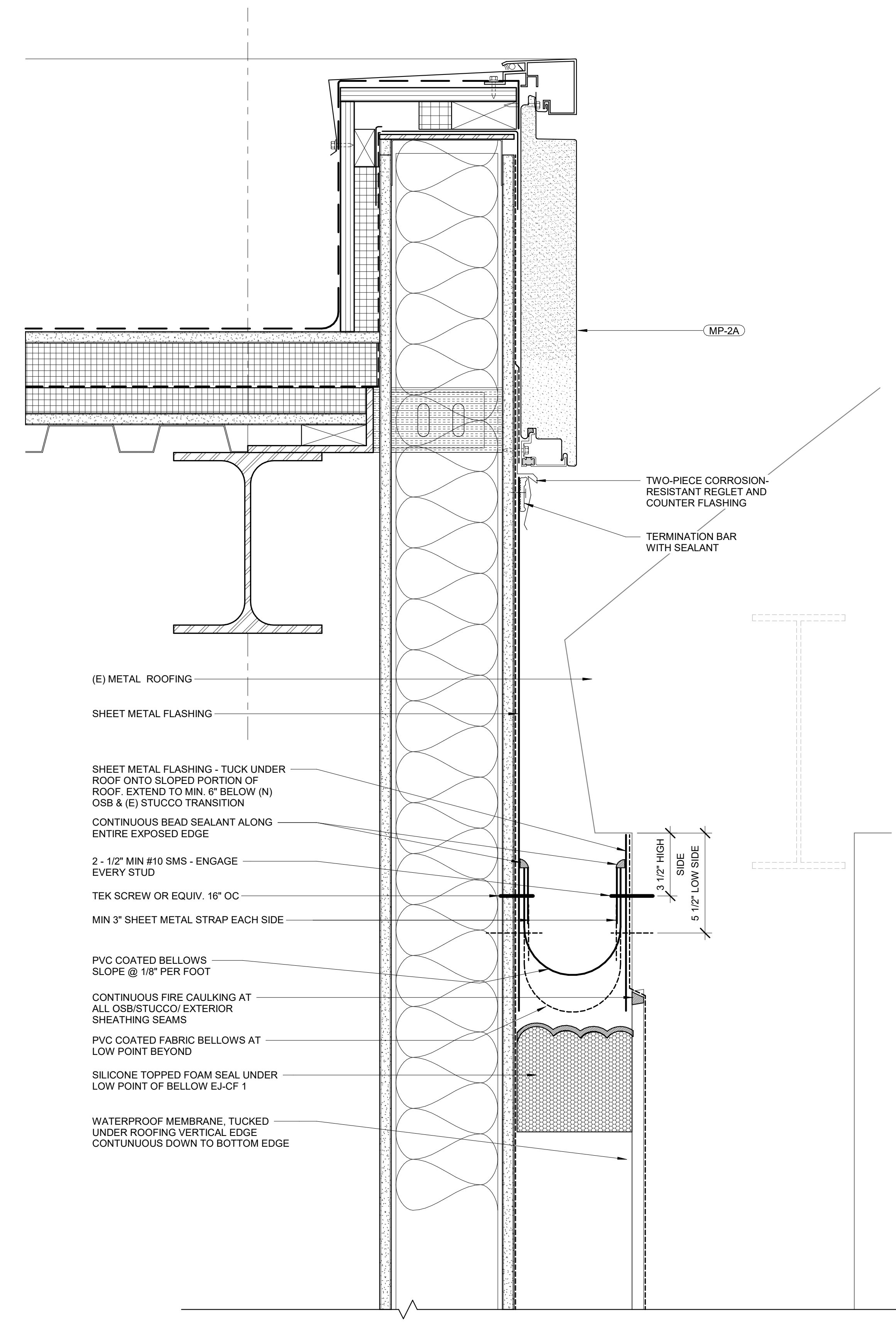
3 MP-2 - TYPICAL VERTICAL METAL PANEL WALL EXPANSION JOINT @ INSIDE CORNER
SCALE: 3" = 1'-0"



5 EXPANSION JOINT @ EXTERIOR STAIR #2 - LEVEL 2
SCALE: 3" = 1'-0"



2 MP-2 - ROOF TO METAL PANEL WALL EXPANSION JOINT @ METAL DECK (N) BLDG.
SCALE: 3" = 1'-0"



1 MP-2A - ROOF TO METAL PANEL WALL EXPANSION JOINT @ METAL DECK (E) BUILDING
SCALE: 3" = 1'-0"

KEY PLAN

PRINCIPAL
DAVID KEITH
RESEARCH PLANNER
STEPH VARGAS
ARCHITECT
ROBERT MCCONNELL
ARCHITECTURAL DESIGNER
RICARDO MOLINA

REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D			10.11.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY RM DATE 11.08.2024

PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME

EXPANSION JOINT SCHEDULE & DETAILS

FLOOR/SECTION PHASE DRAWING NO.

NOT FOR CONSTRUCTION

CD

A4.5.1

KEY PLAN

PRINCIPAL
DAVID KEITH
RESEARCH PLANNER
STEPH VARGAS
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ROBERT MCCONNELL
ARCHITECTURAL DESIGNER
RICARDO MOLINA

REVISIONS

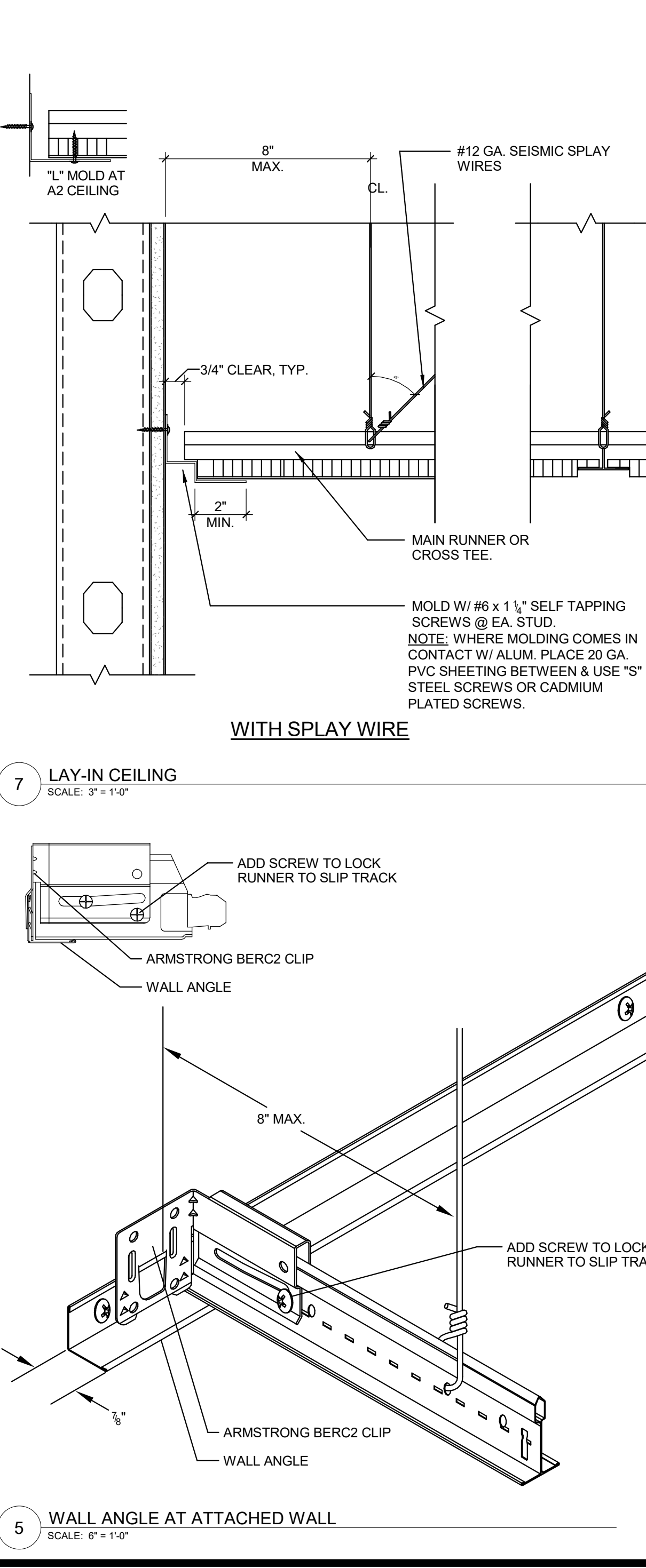
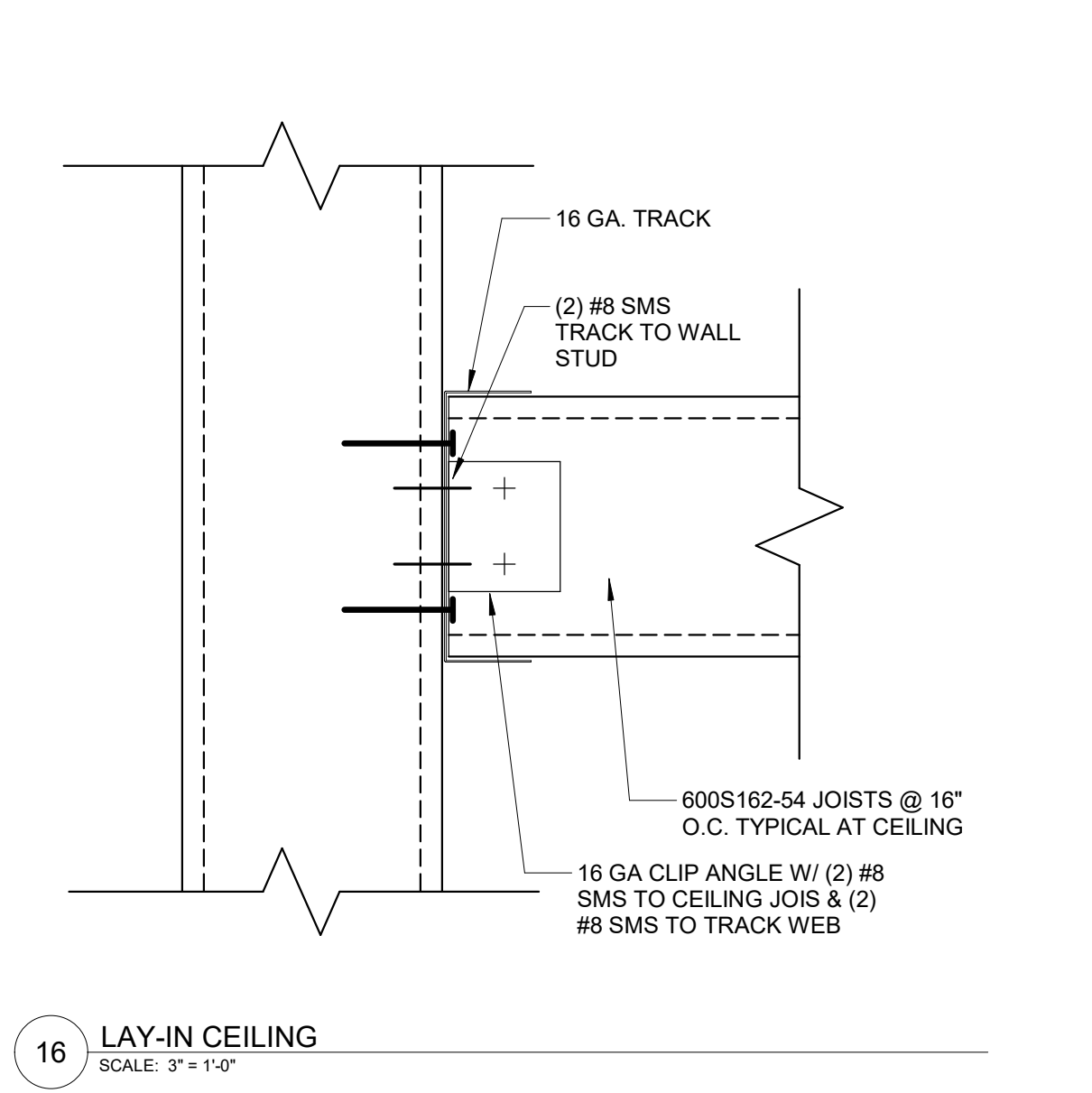
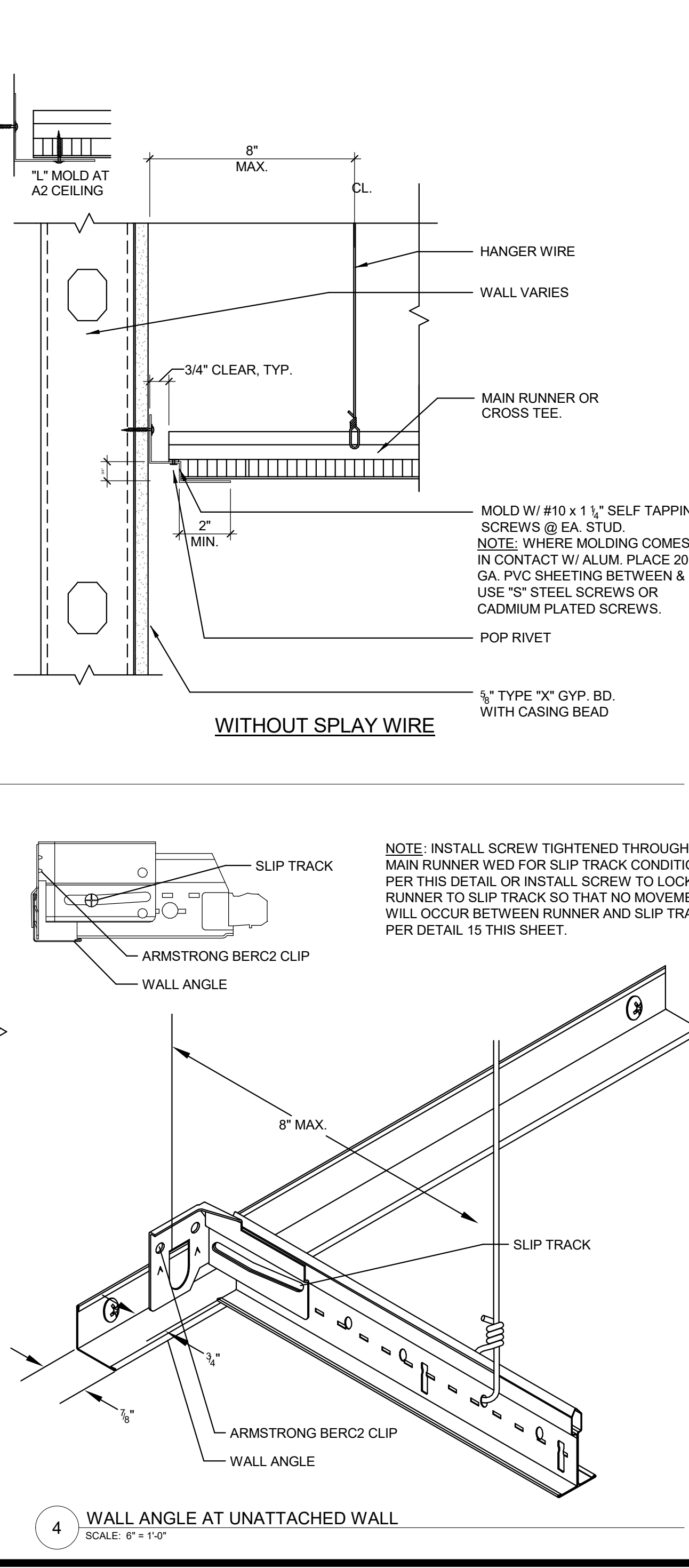
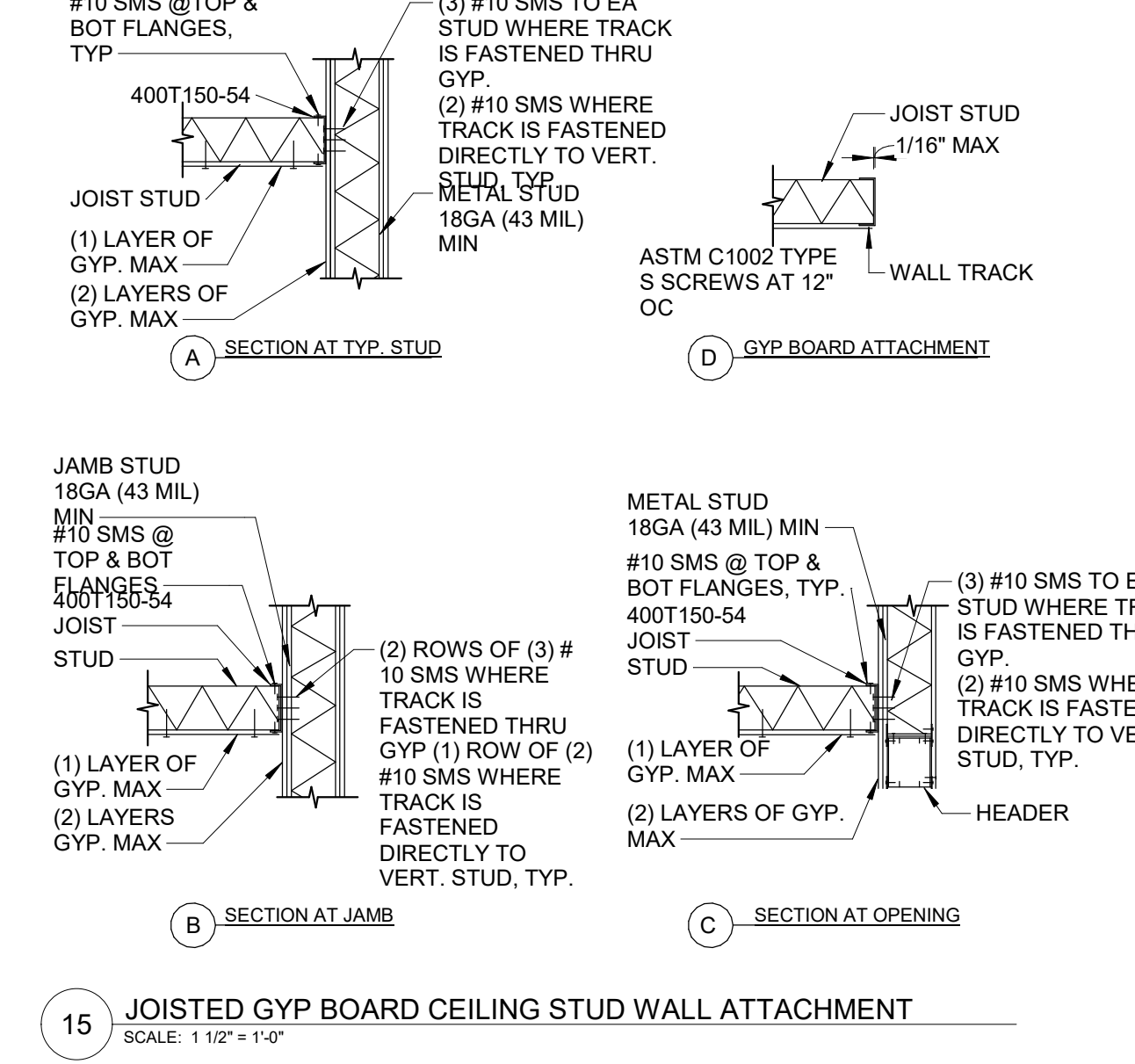
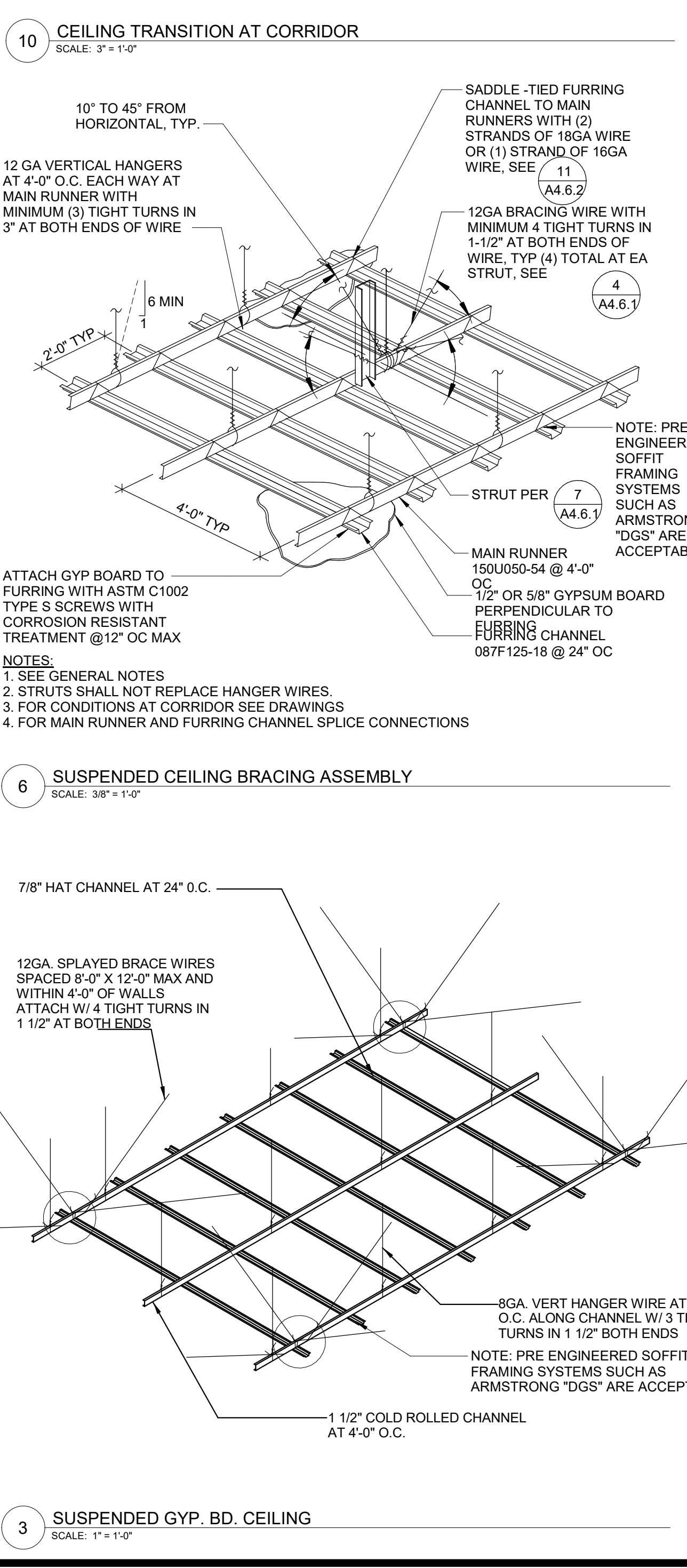
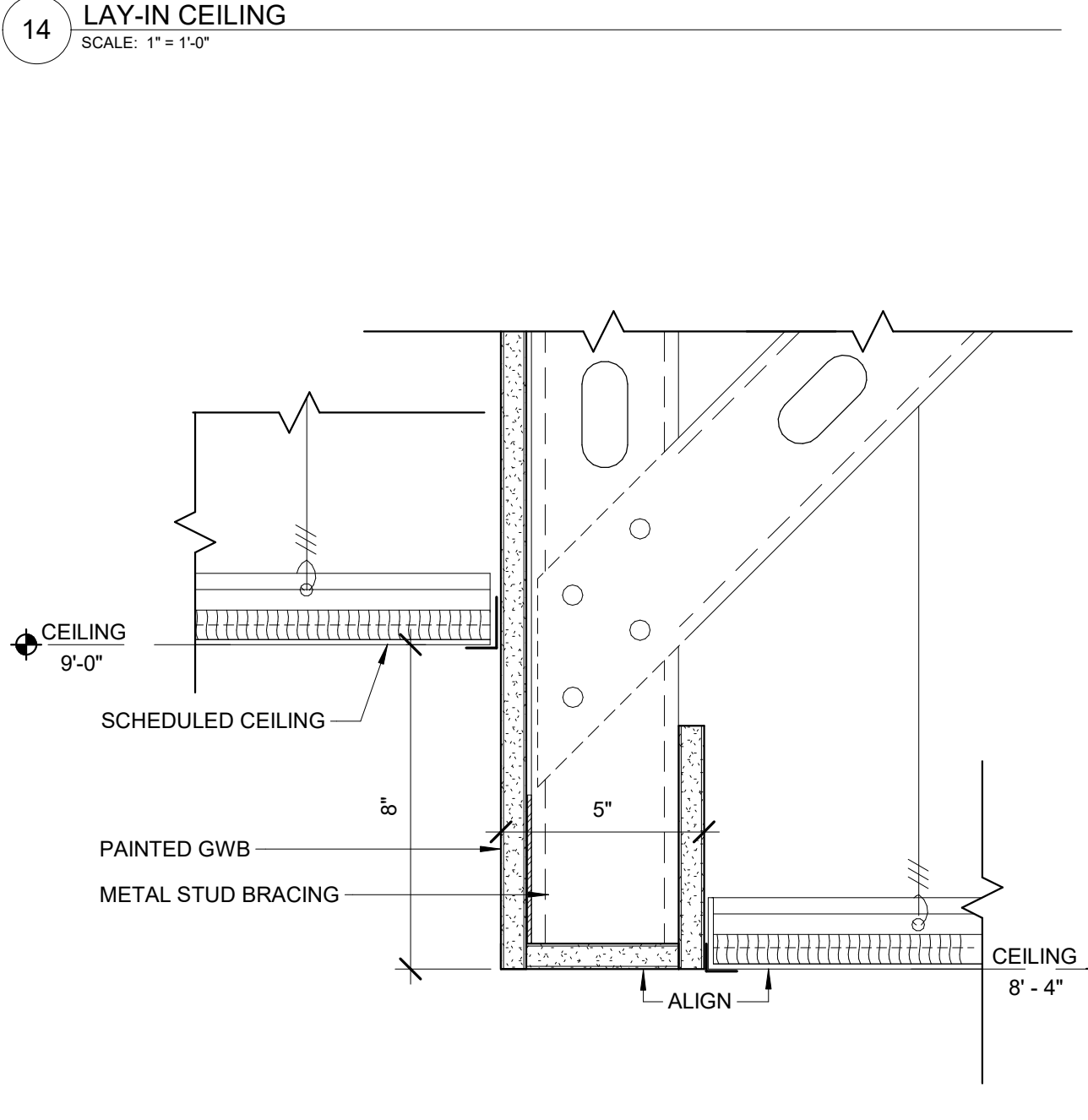
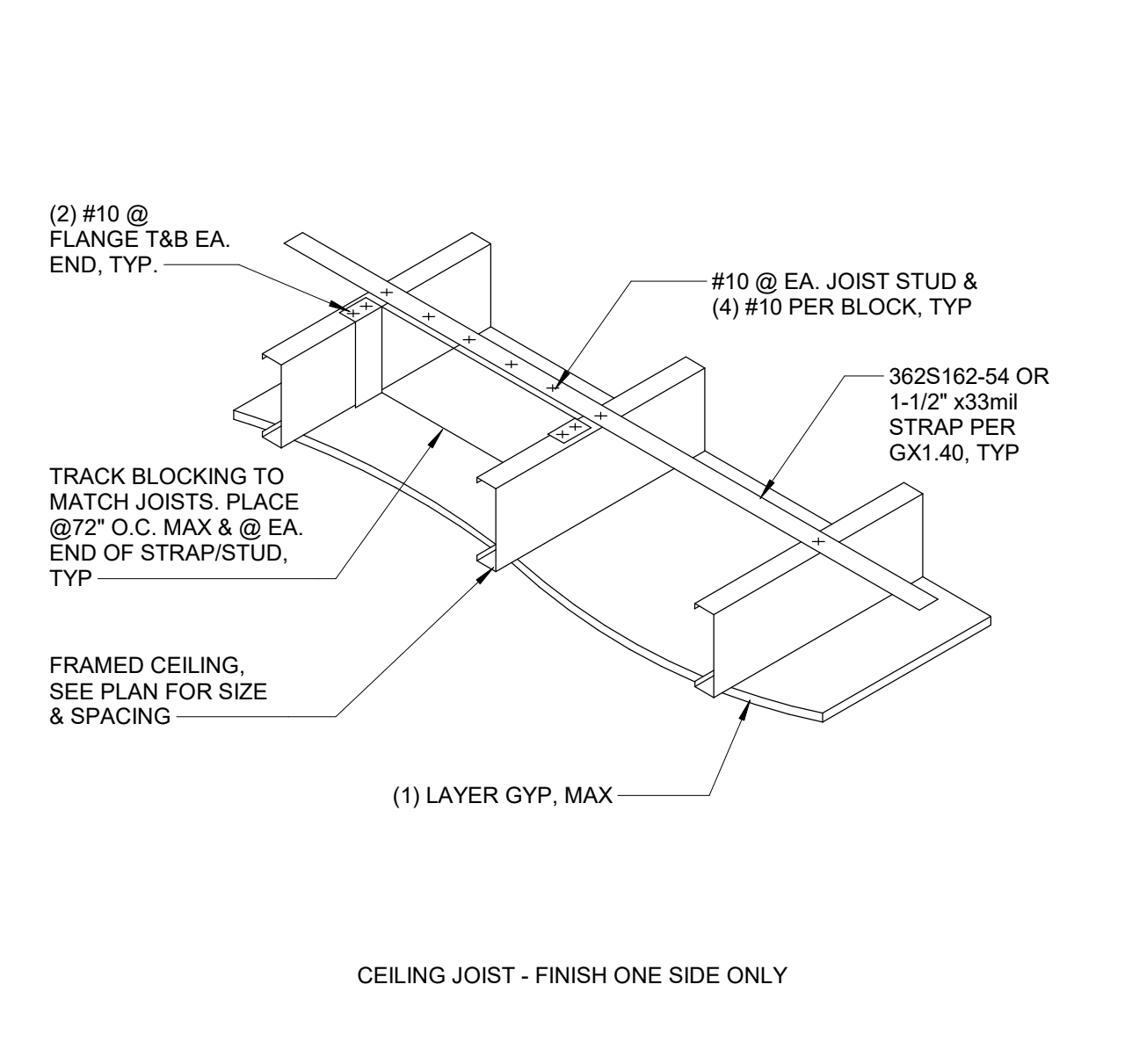
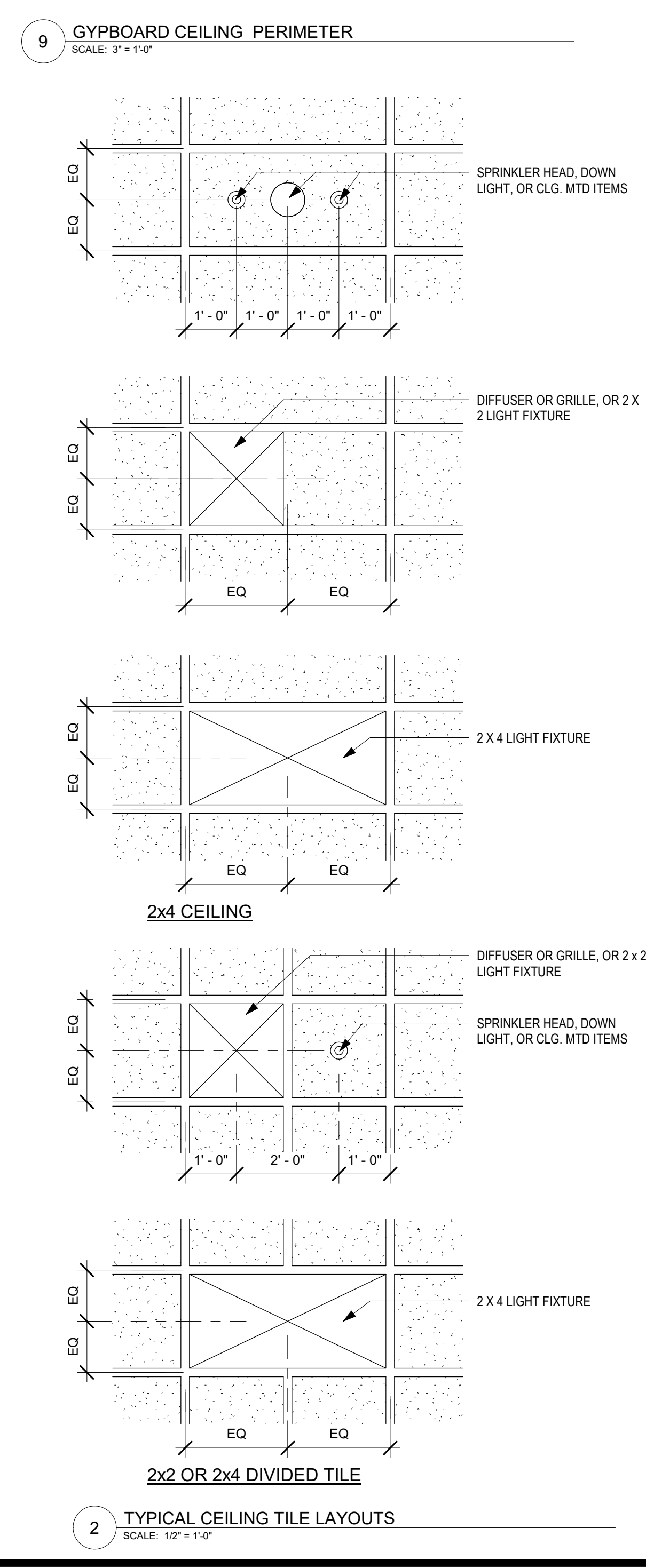
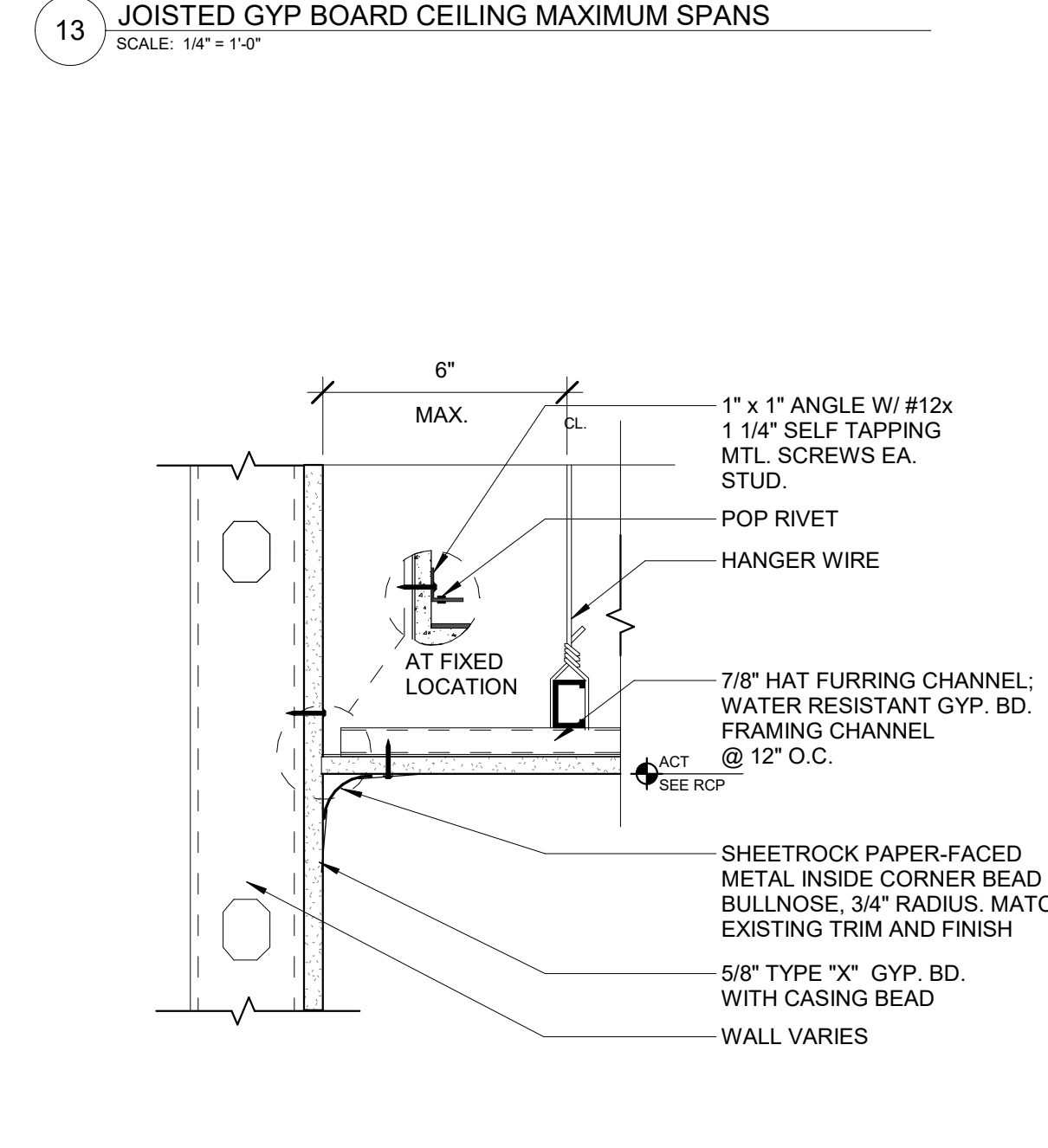
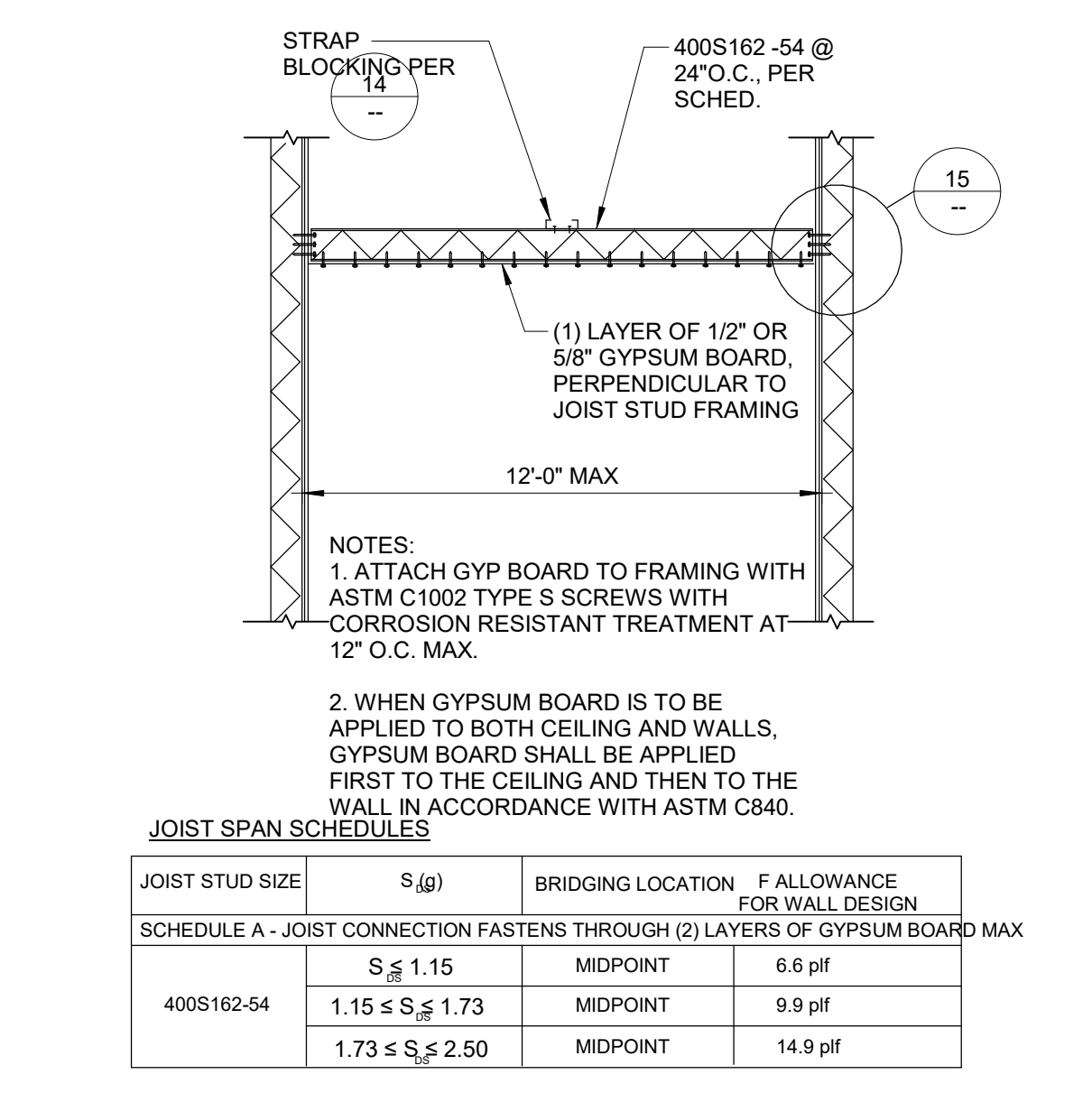
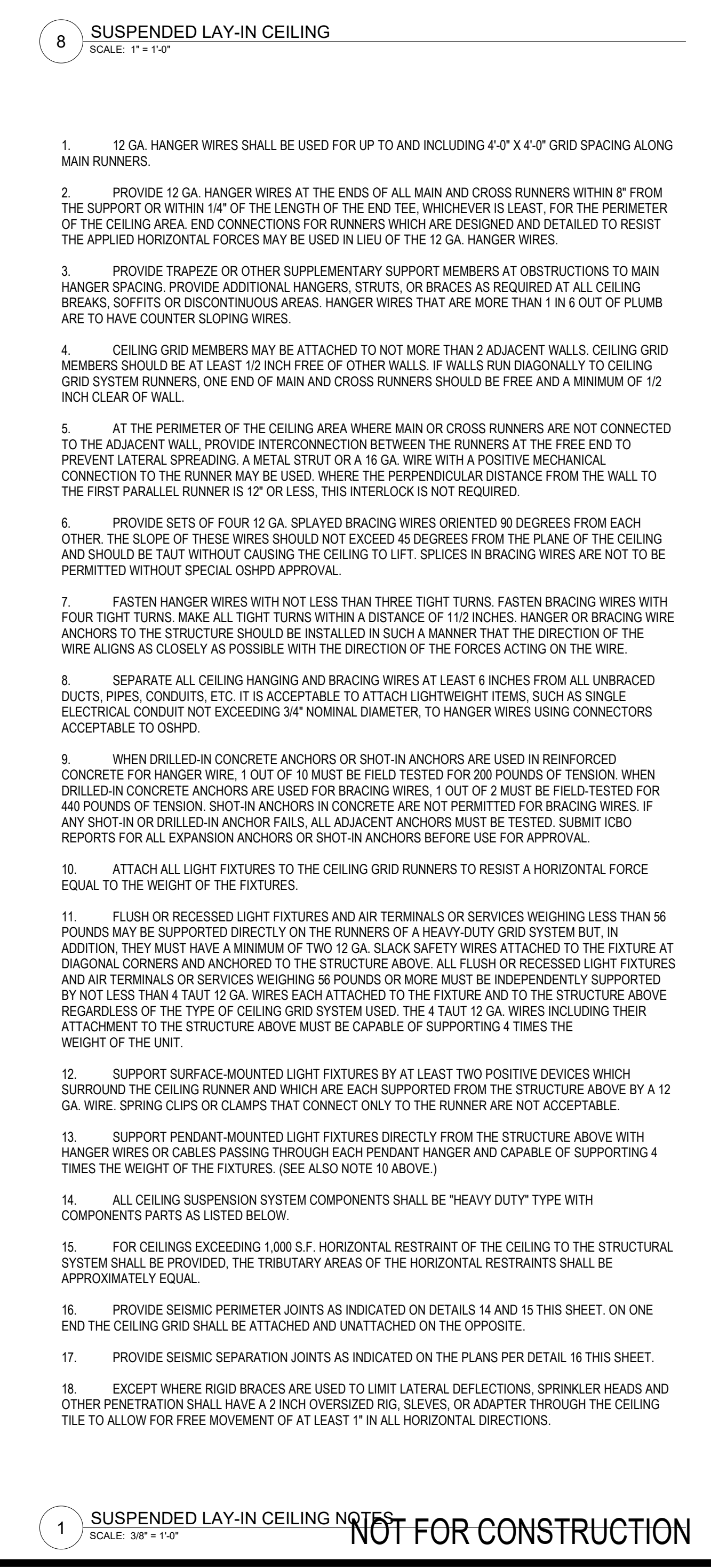
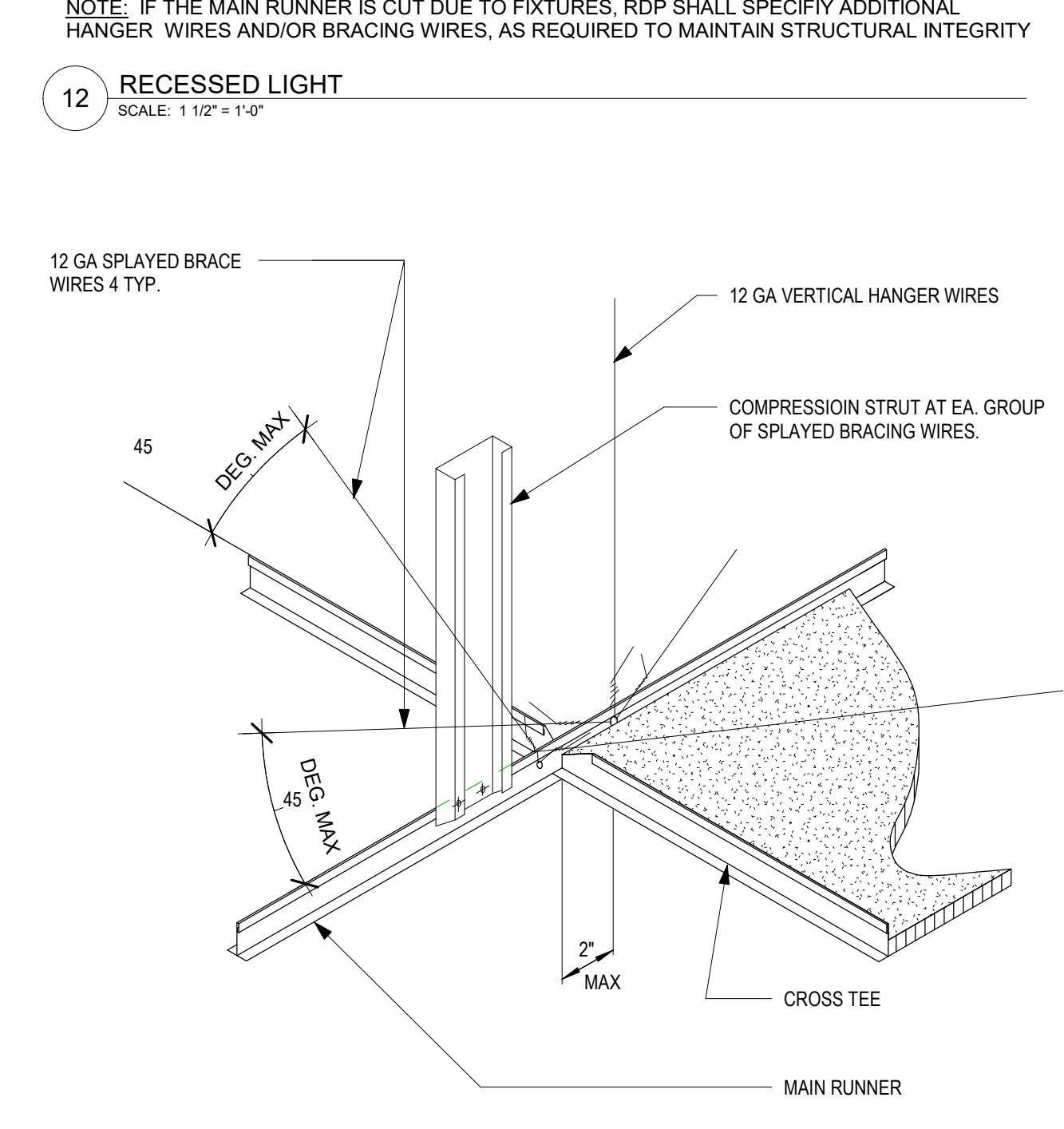
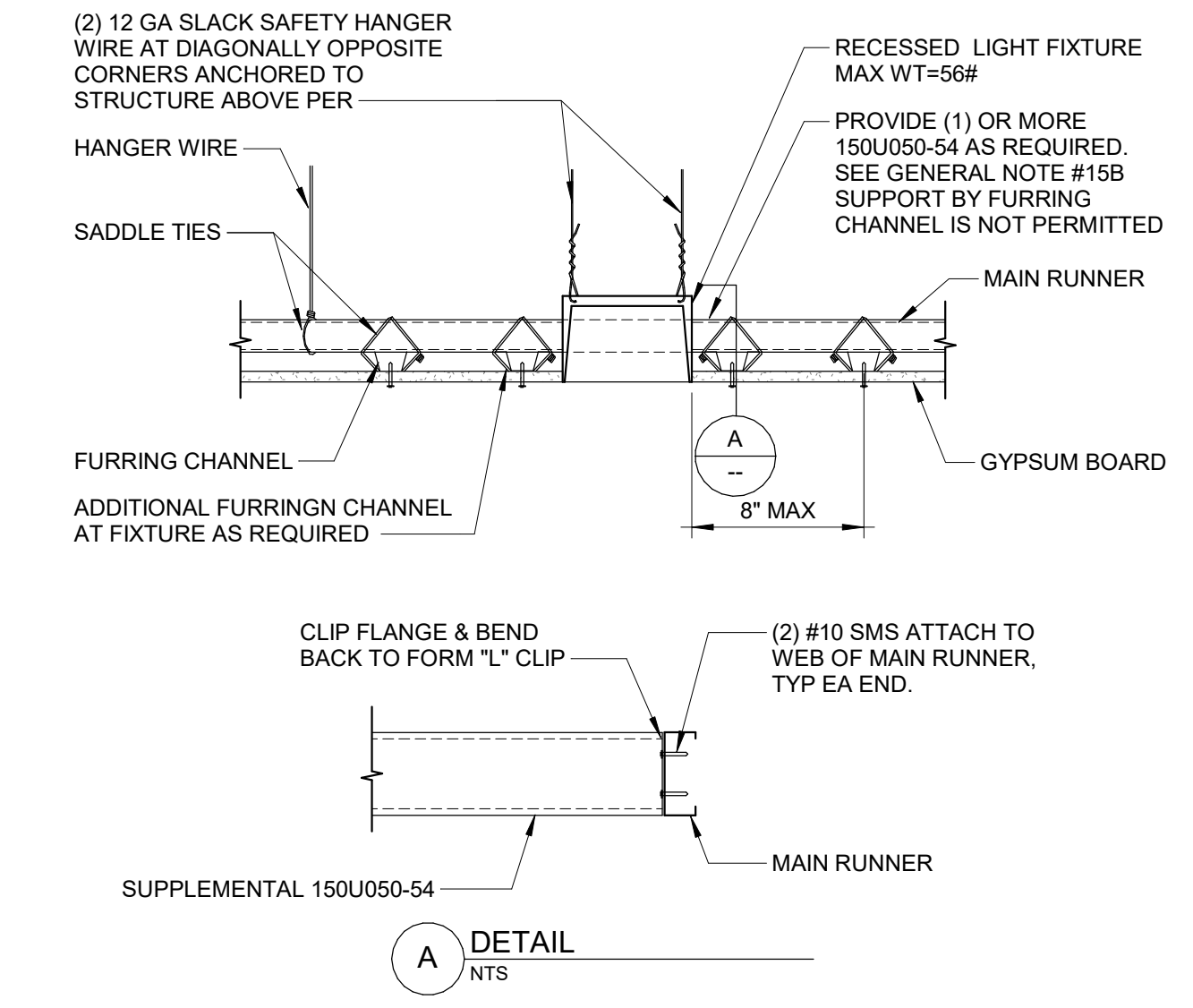
NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D		ISSUED FOR OWNER'S REVIEW	10.11.2024
C		DESIGN DEVELOPMENT	09.26.2024
B		50% DD SET	05.24.2024
A		50% DD SET	05.10.2024

Southern Nevada Health District
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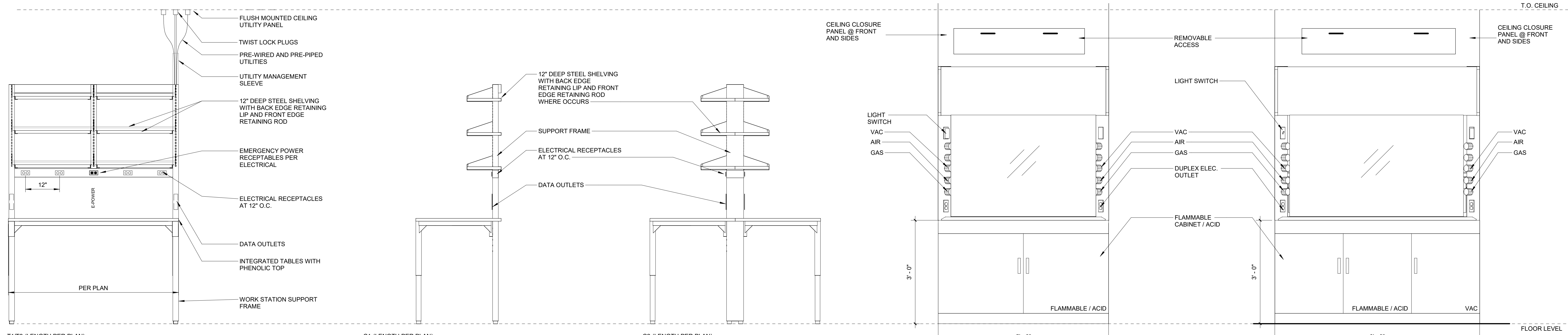
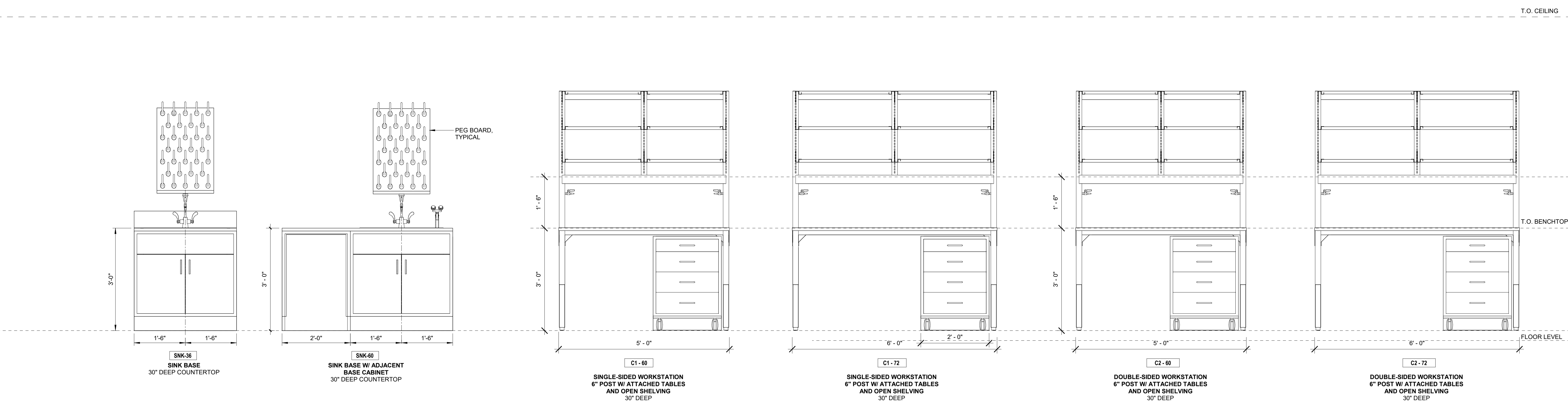
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PROJECT NO: 20230523 SCALE: As indicated

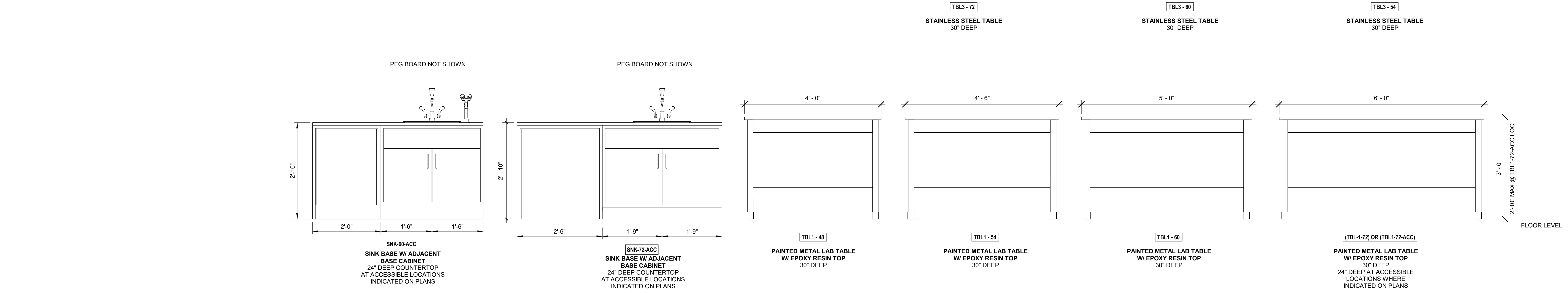
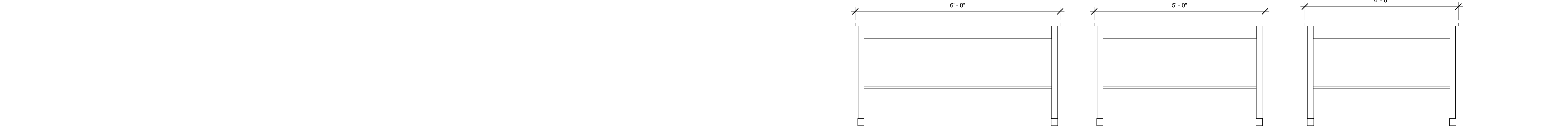
FLOOR/SECTION PHASE: DRAWING NO: CD A4.6.1



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T1/T2-(LENGTH PER PLAN) 30\"/>



Casework Legend
SCALE: 3/4\"/>

KEY PLAN

PRINCIPAL
DAVID KEITH
RESEARCH PLANNER
STEPH VARGAS
ARCHITECT
ROBERT MCCONNELL
ARCHITECTURAL DESIGNER
RICARDO MOLINA

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
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C		DESIGN DEVELOPMENT	09.26.2024
B		50% DD SET	05.24.2024
A			05.10.2024

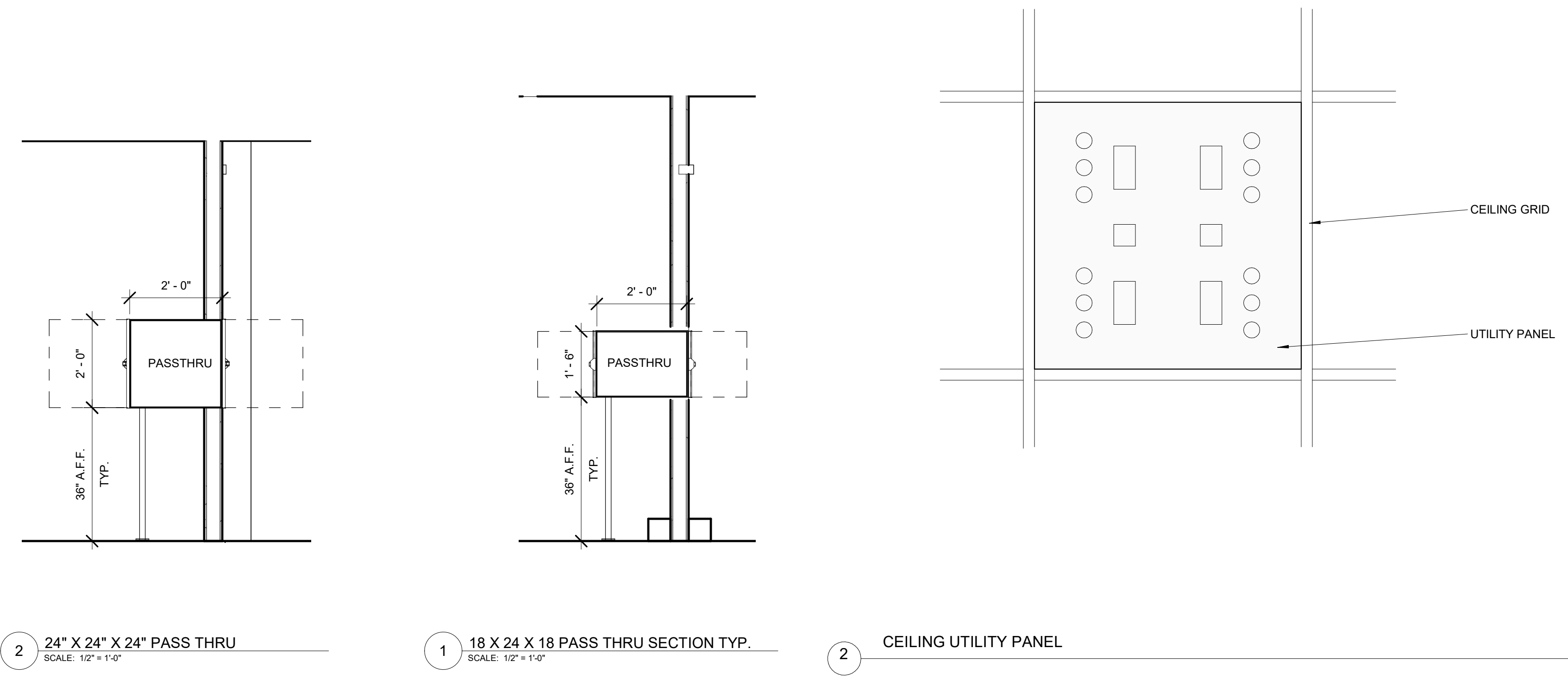
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700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY: RM DATE: 11.08.2024
PROJECT NO.: 20230523 SCALE: 3/4\"/>

CASEWORK SCHEDULE & DETAILS

FLOOR/SECTION PHASE DRAWING NO.

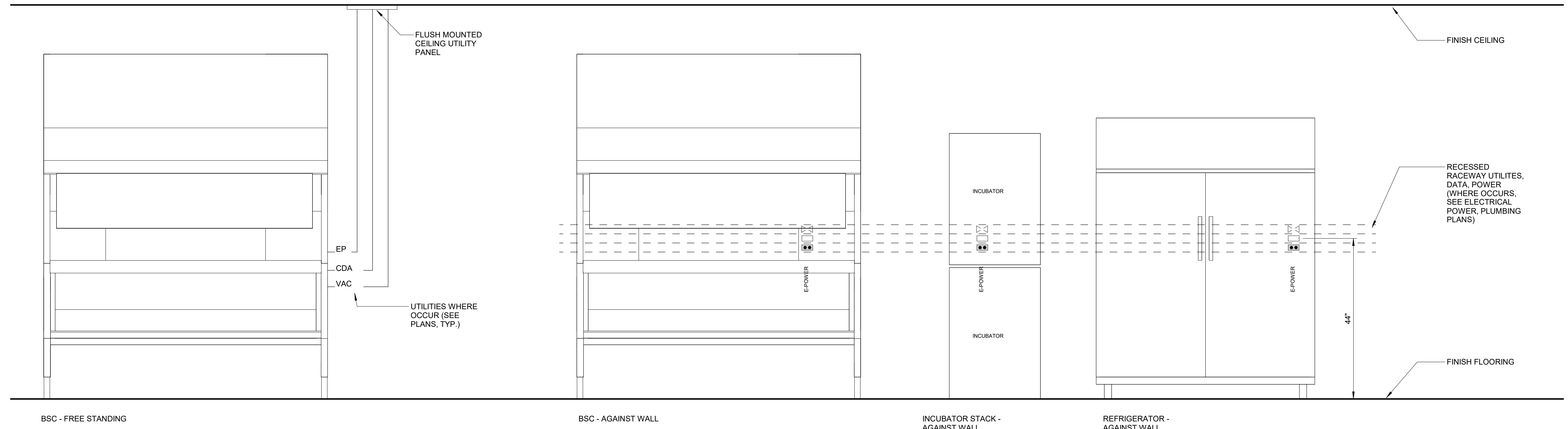
11/8/2024 11:44:12 AM Autodesk Docs://20230523 - South Nevada Health District MLK BLDG - LAB/20230523_A22_CENTRAL.rvt



2 24" X 24" X 24" PASS THRU
SCALE: 1/2" = 1'-0"

1 18 X 24 X 18 PASS THRU SECTION TYP.
SCALE: 1/2" = 1'-0"

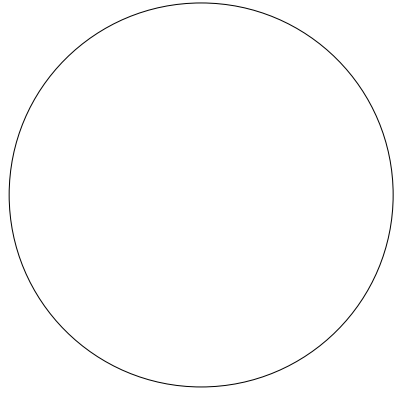
2 CEILING UTILITY PANEL



1 TYPICAL UTILITY TERMINATIONS

KEY PLAN

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STEPH VARGAS
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ROBERT MCCONNELL
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RICARDO MOLINA



REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D		ISSUED FOR OWNER'S REVIEW	10.11.2024
C		DESIGN DEVELOPMENT	09.26.2024
B		50% DD SET	05.24.2024
A			05.10.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY _____ RM DATE 11.08.2024

PROJECT NO. 20230523 SCALE As indicated

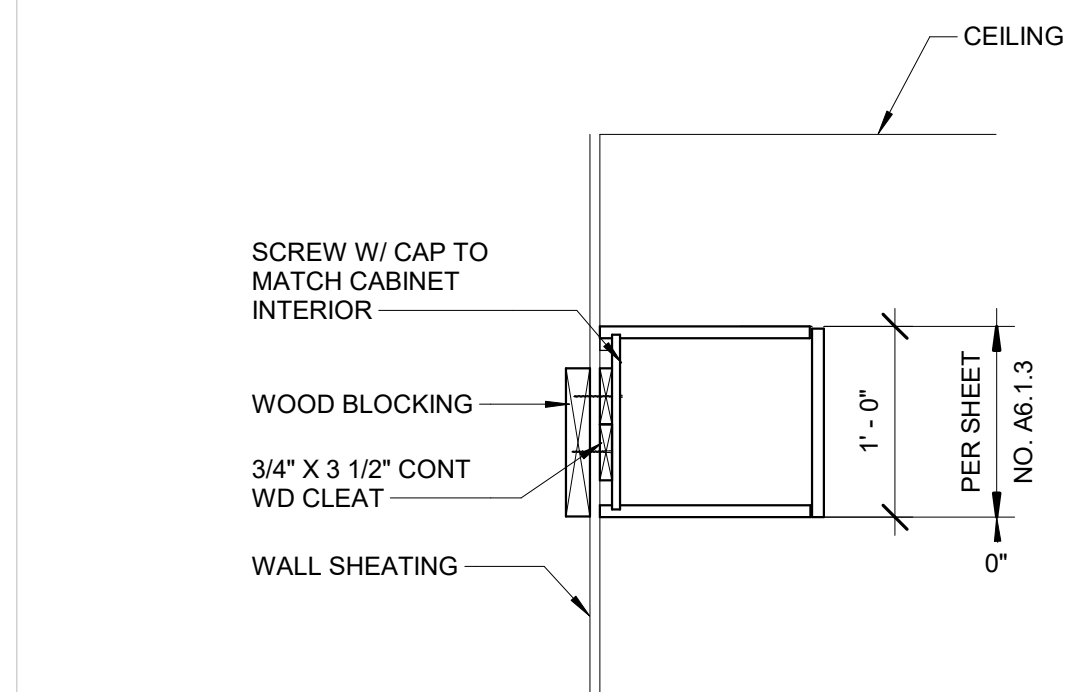
CASEWORK SCHEDULE & DETAILS

FLOOR/SECTION PHASE DRAWING NO.

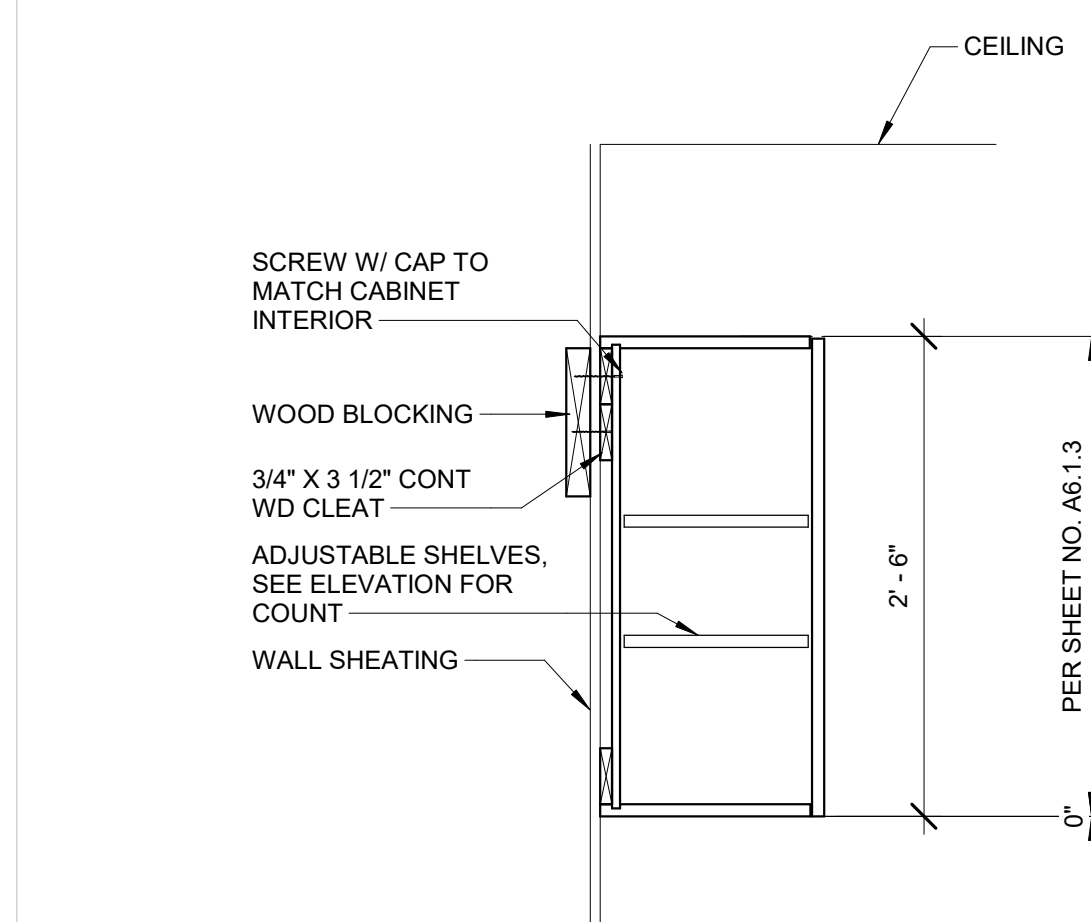
NOT FOR CONSTRUCTION

CD A4.7.2

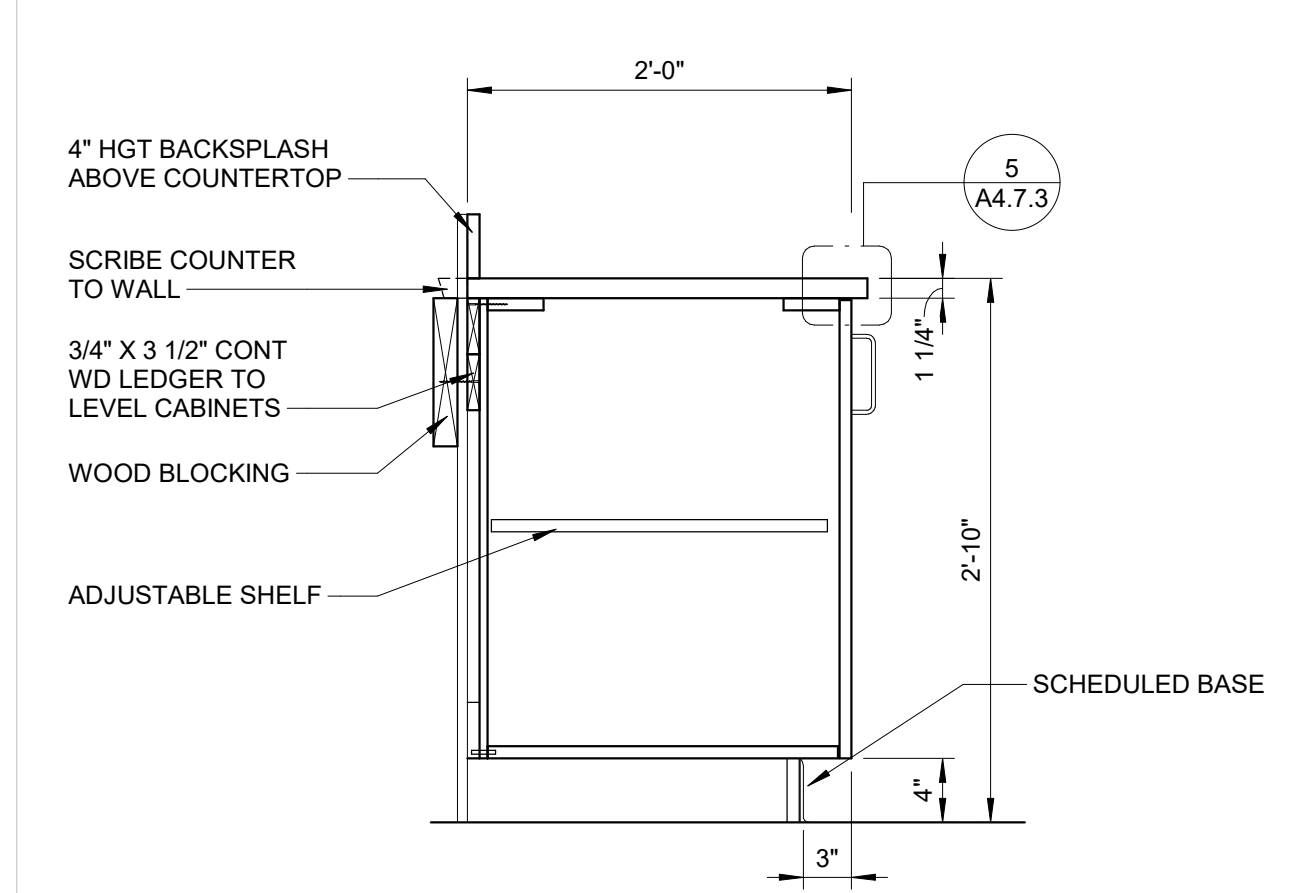
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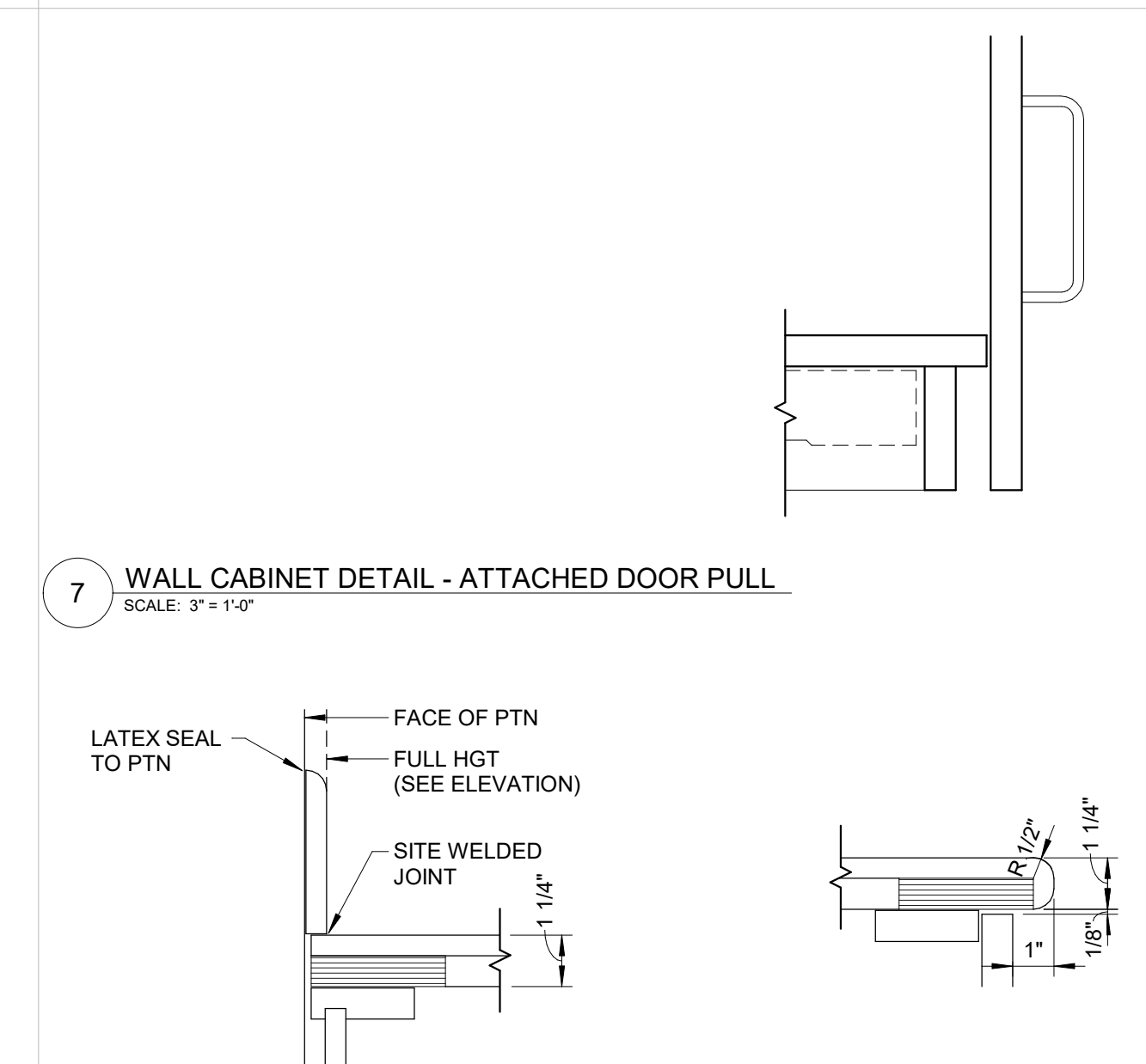
4 12" HGT UPPER WALL CABINET
SCALE: 1" = 1'-0"



3 WALL CABINET
SCALE: 1" = 1'-0"



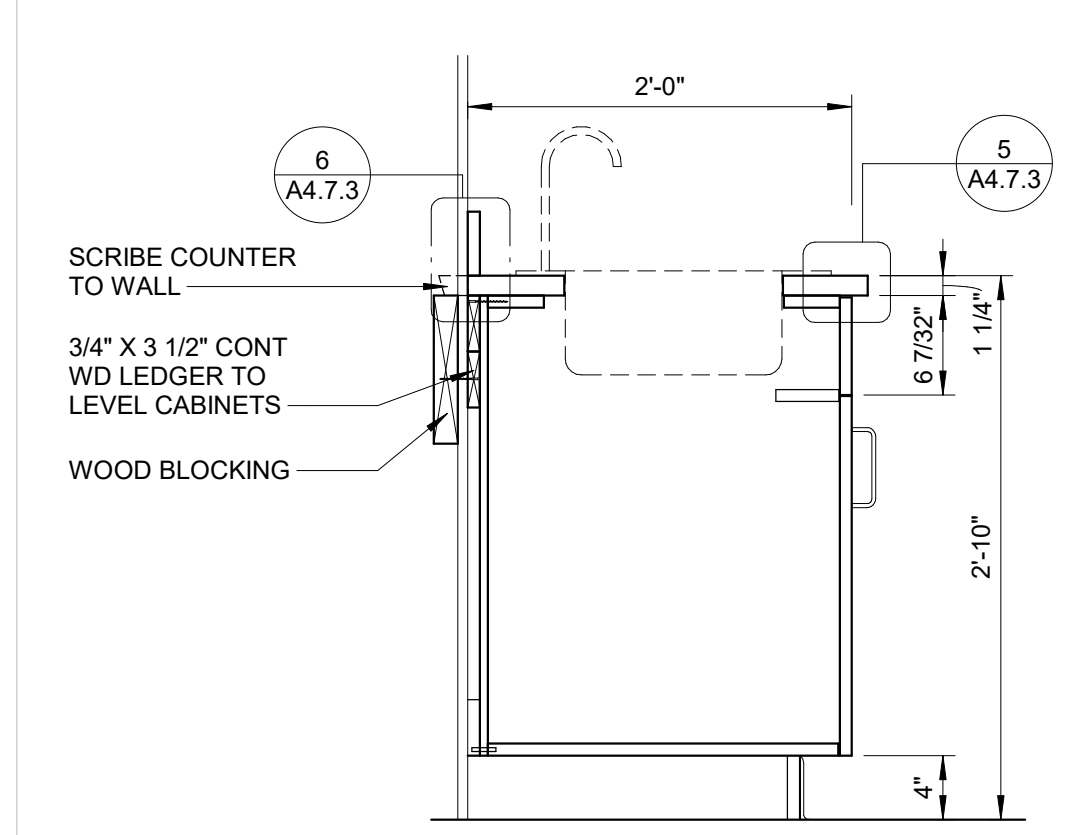
2 BASE CABINET W/ 4" HGT BACKSPLASH
SCALE: 1" = 1'-0"



7 WALL CABINET DETAIL - ATTACHED DOOR PULL
SCALE: 3" = 1'-0"

6 LOOSE BACKSPLASH/SIDESPLASH
SCALE: 3" = 1'-0"

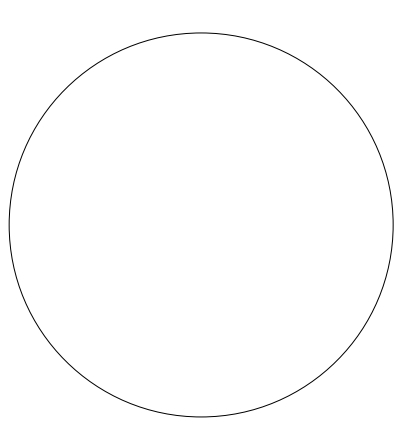
5 FORMED EDGE
SCALE: 3" = 1'-0"



1 BASE CABINET W/ SINK
SCALE: 1" = 1'-0"

NOT FOR CONSTRUCTION

KEY PLAN



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STEPH VARGAS
ARCHITECT
ROBERT MCCONNELL
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RICARDO MOLINA

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PROJECT NO. 20230523 SCALE As indicated

CASEWORK SCHEDULE & DETAILS

FLOOR/SECTION PHASE DRAWING NO.

CD A4.7.3



KEY PLAN

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REVISIONS

Table with columns: NO., BY, DESCRIPTION, DATE. Includes revision history for design development and set completion.

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY: Author DATE: 11.08.2024

PROJECT NO. 20230523 SCALE
DRAWING NAME

EQUIPMENT SCHEDULE - LEVEL 1

FLOOR/SECTION PHASE DRAWING NO.

NOT FOR CONSTRUCTION

CD

A4.8.1

Main equipment specification table with columns: Phase, Floor, Group, Room, Room Number, E/N/F, Existing Location Rm #, Equipment Number, Equipment Description, Quantity, Manufacturer, Model, PC / Laptop, Equipment Dimensions in Inches (WITHOUT clearances), Location, Weight, Voltage, Amps, Phase, Hertz, Power Supply, Emergency Power (VA), NEMA Conn., Dedicated Data, PCS Monitor, LIMS, CDA - Clean Dry Air (psf), Lab Services, Lab Gas Services, HVAC, Liquids, FURNISHED / INSTALLED / REMARKS.

11/8/2024 11:44:15 AM Autodesk Docs/0220230523 - South Nevada Health District M.L.K. BLDG - 3 LAB/20230523_A22 - CENTRAL.rvt

11/08/2024 11:44:18 AM Autodesk Docs: /02230523 - South Nevada Health District - M.L.K. Blvd - JLD/02230523_022 - CE/PL/ML/VT

Phase	Floor	Group	ROOM/LOCATION ATTRIBUTES			EQUIPMENT SPECIFICATION				IT	SIZE, LOCATION & WEIGHT			ELECTRICAL					DATA		LAB SERVICES		LAB GAS SERVICES			HVAC		LIQUIDS				FURNISHED / INSTALLED / REMARKS																
			Room Number	E / N / F	Existing Location Rm #	Equipment Number	Equipment Description	Quantity	Manufacturer		Model	PC / Laptop	Equipment Dimensions in inches (WITHOUT clearances) W x D x H	Location	Weight	Voltage	Amps	Phase	Hertz	Power Supply	Emergency	Power (VA)	NEMA Conn.	Dedicated Data	PCS Monitor	LIMS	CDA - Clean Dry Air (psf)	Vacuum	HE - Helium	Ultra High Purity N2	N2 - Nitrogen Gas	O2 - Oxygen	CO2 - Carbon Dioxide (psf)	HVAC Supply Ventilation	Ducted Exhaust	Storied	Vac Pump Cabinet	ICW - Industrial Cold Water	IHW - Industrial Hot Water	Dil Water	MW - Municipal Water	LNG - Liquid Nitrogen	Status OF/OI - OF/Ci - OF/CI	REMARKS				
1	2	Admin	Supervisor Office	2001	N																																							OF/OI				
1	2	Admin	Supervisor Office	2002	N																																											



KEY PLAN

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RICARDO MOLINA

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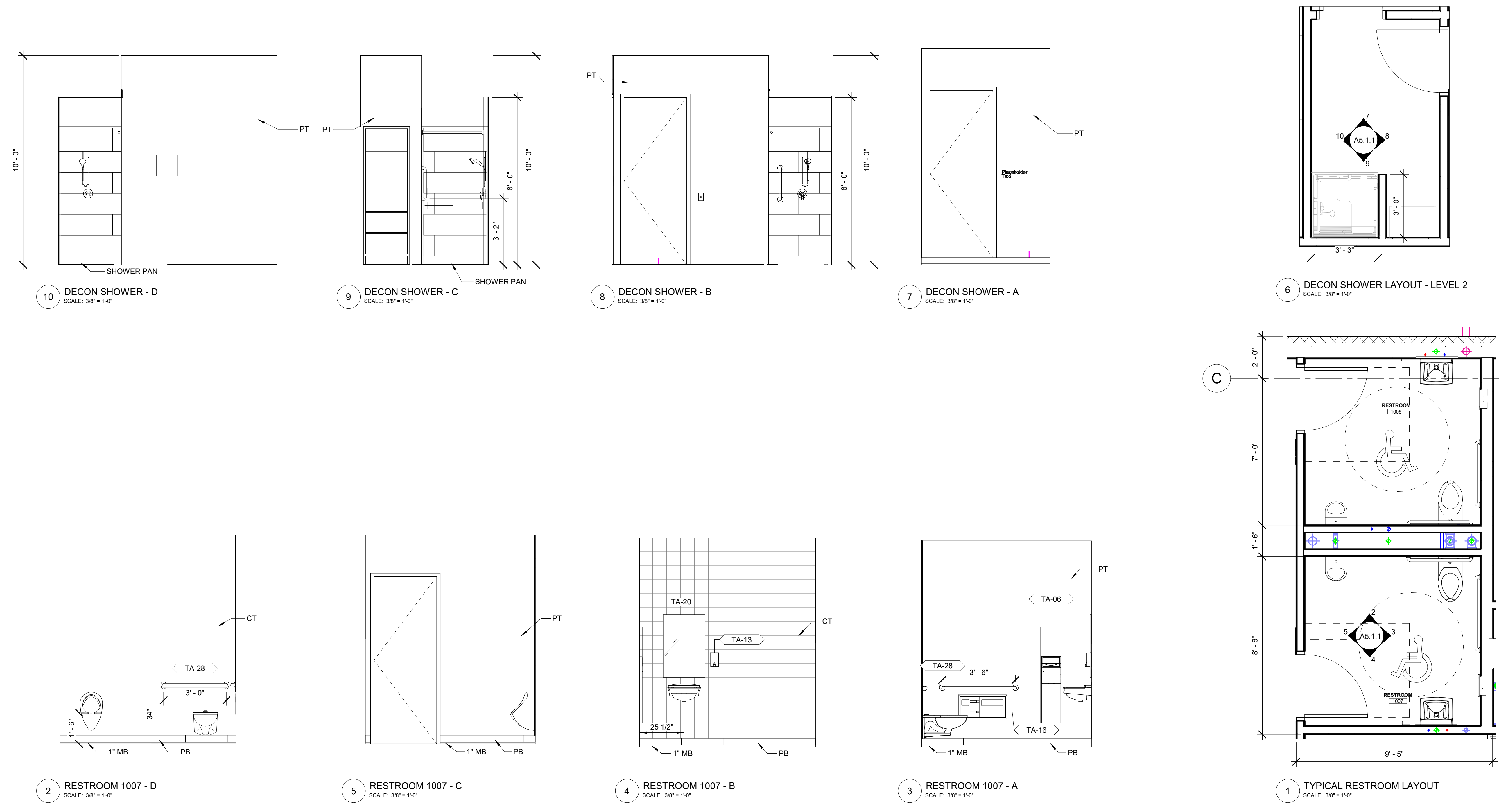
MATERIAL CODES

- ACT ACOUSTICAL TILE
- B BASE
- C CEILING
- CPT CARPET
- CG CORNER GUARD
- CT CERAMIC TILE
- EP EPOXY FLOORING
- EPT EPOXY PAINT
- ESD ELECTROSTATIC DISCHARGE TILE
- EX EXISTING TO REMAIN
- HR HAND RAIL
- IB INTEGRAL BASE
- MB METAL BASE
- MTC METAL TOP CAP
- PL PLASTIC LAMINATE
- PB PORCELAIN BASE
- PFT PORCELAIN FLOOR TILE
- PT PAINT
- RB RUBBER BASE
- RS RESILIENT SHEET FLOORING
- SC SEALED CONCRETE
- SSU SOLID SURFACE
- SS STAINLESS STEEL
- WT WINDOW TREATMENT

ACCESSORY LEGEND

- TA-1 SURFACE TOILET TISSUE DISPENSER ROLL TYPE
- TA-2 SURFACE TOILET TISSUE DISPENSER ROLL TYPE BY VENDOR
- TA-3 SURFACE PAPER TOWEL DISPENSER C FOLD - LARGE
- TA-4 SURFACE PAPER TOWEL DISPENSER C FOLD - SMALL
- TA-5 RECESSED PAPER TOWEL DISPENSER C FOLD
- TA-6 SURFACE PAPER TOWEL DISPENSER TYPE BY VENDOR
- TA-7 RECESSED PAPER TOWEL DISPENSER / WASTE RECEPTACLE
- TA-8 SURFACE NAPKIN / TAMPON VENDOR
- TA-9 RECESSED NAPKIN / TAMPON VENDOR
- TA-10 SURFACE NAPKIN DISPOSAL
- TA-11 RECESSED NAPKIN DISPOSAL
- TA-12 SURFACE SOAP DISPENSER BY VENDOR
- TA-13 SURFACE SOAP DISPENSER
- TA-14 LAVATORY MOUNTED SOAP DISPENSER
- TA-15 AUTOMATIC LAVATORY MOUNTED SOAP DISPENSER
- TA-16 SURFACE SEAT COVER DISPENSER
- TA-17 RECESSED SEAT COVER DISPENSER
- TA-18 ROBE HOOK
- TA-19 MOP STRIP
- TA-20 FRAMED MIRROR 18x36
- TA-21 FRAMED MIRROR 24x60
- TA-22 TOWEL BAR 24"
- TA-23 SURFACE BABY CHANGING STATION HORIZONTAL
- TA-24 RECESSED BABY CHANGING STATION HORIZONTAL
- TA-25 L SHAPED SHOWER SEAT
- TA-26 RECTANGULAR SHOWER SEAT
- TA-27 SHOWER CURTAIN ROD
- TA-28 GRAB BAR STRAIGHT HORIZONTAL
- TA-29 GRAB BAR STRAIGHT VERTICAL
- TA-30 GRAB BAR TWO WALL SHOWER STALL - SMALL
- TA-31 GRAB BAR SWING TYPE

NOTES:
1. DIMENSIONS ARE TO FACE OF WALL FINISH.
2. WARM AIR DRYERS ARE LISTED SEPARATELY



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DRAWN BY _____ RM _____ DATE 11.08.2024

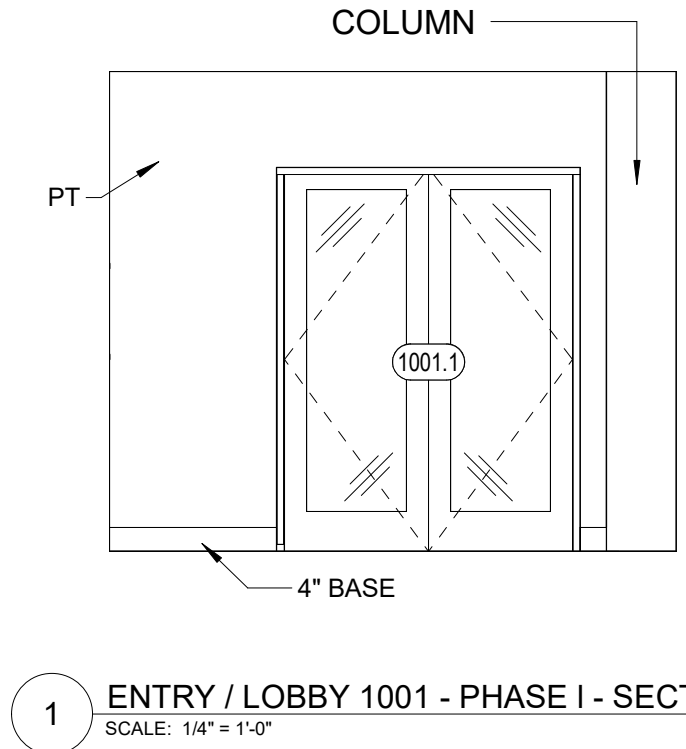
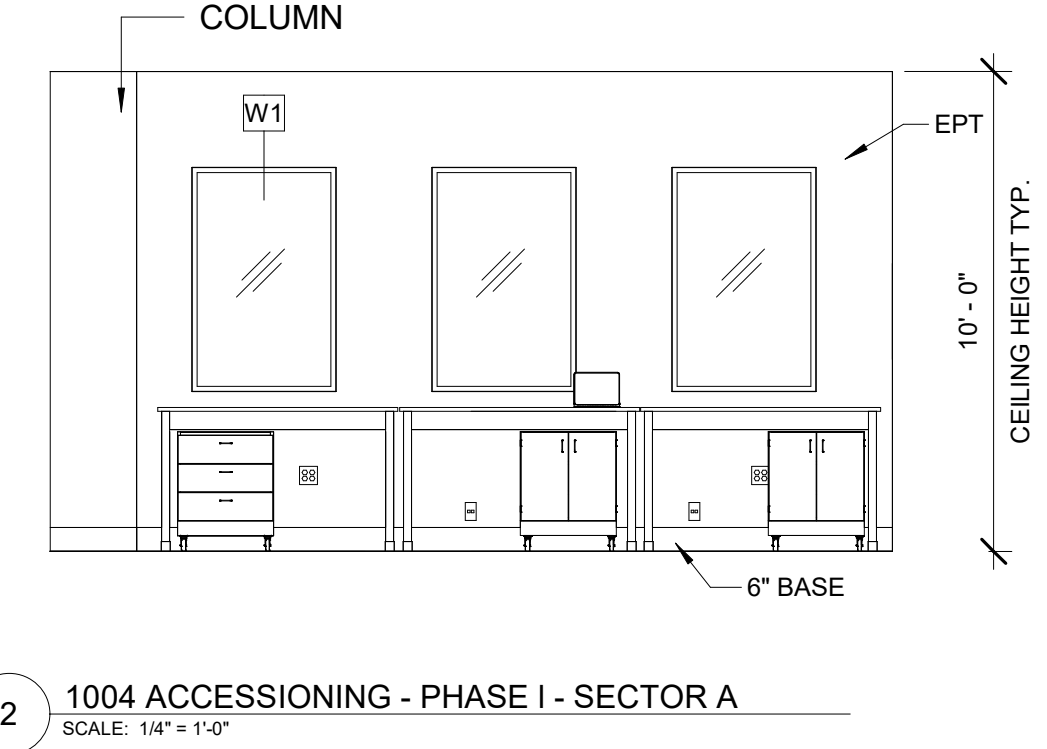
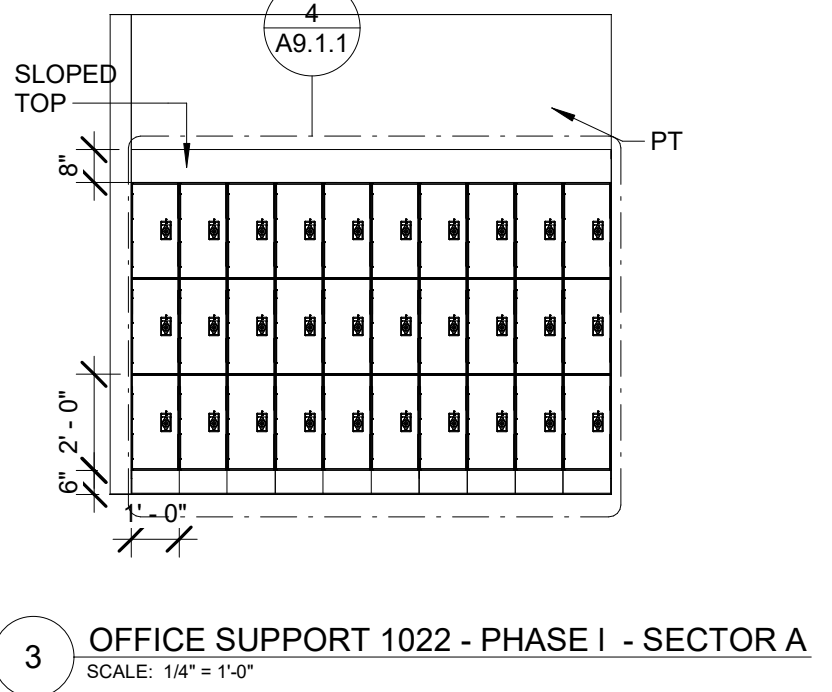
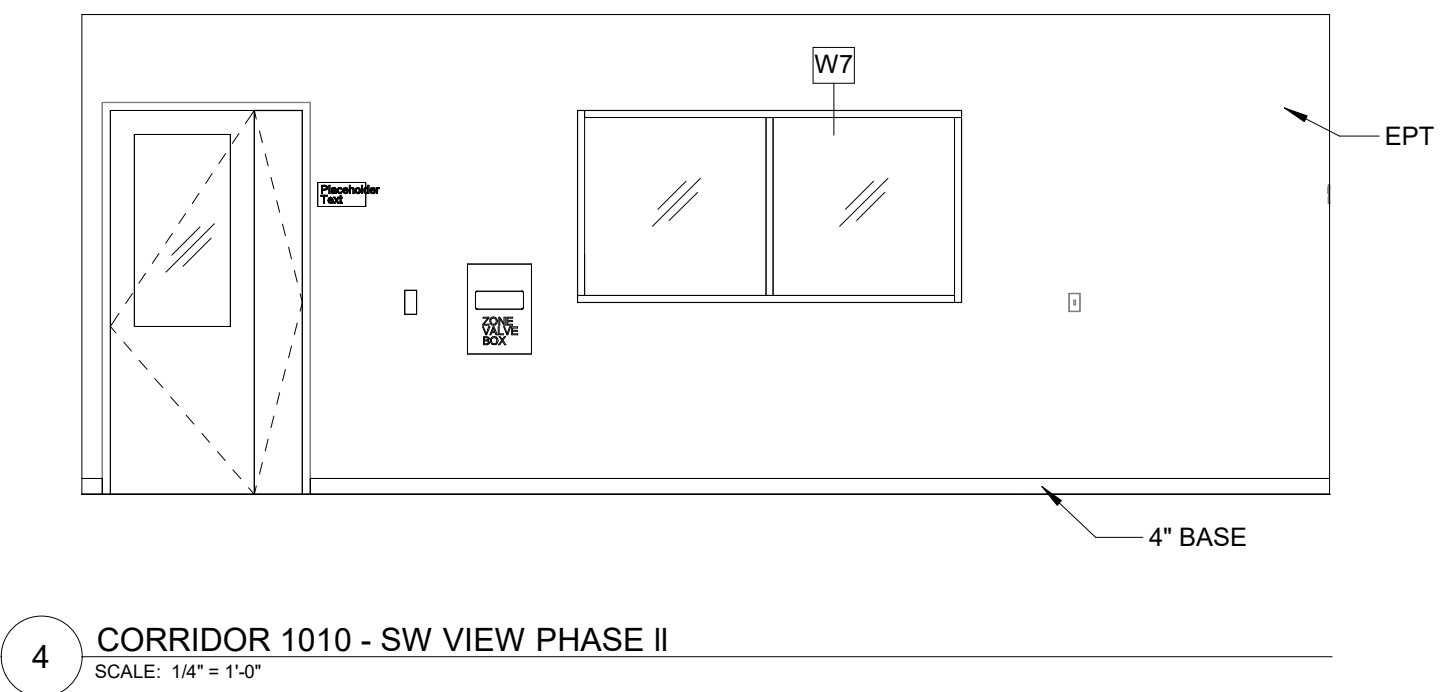
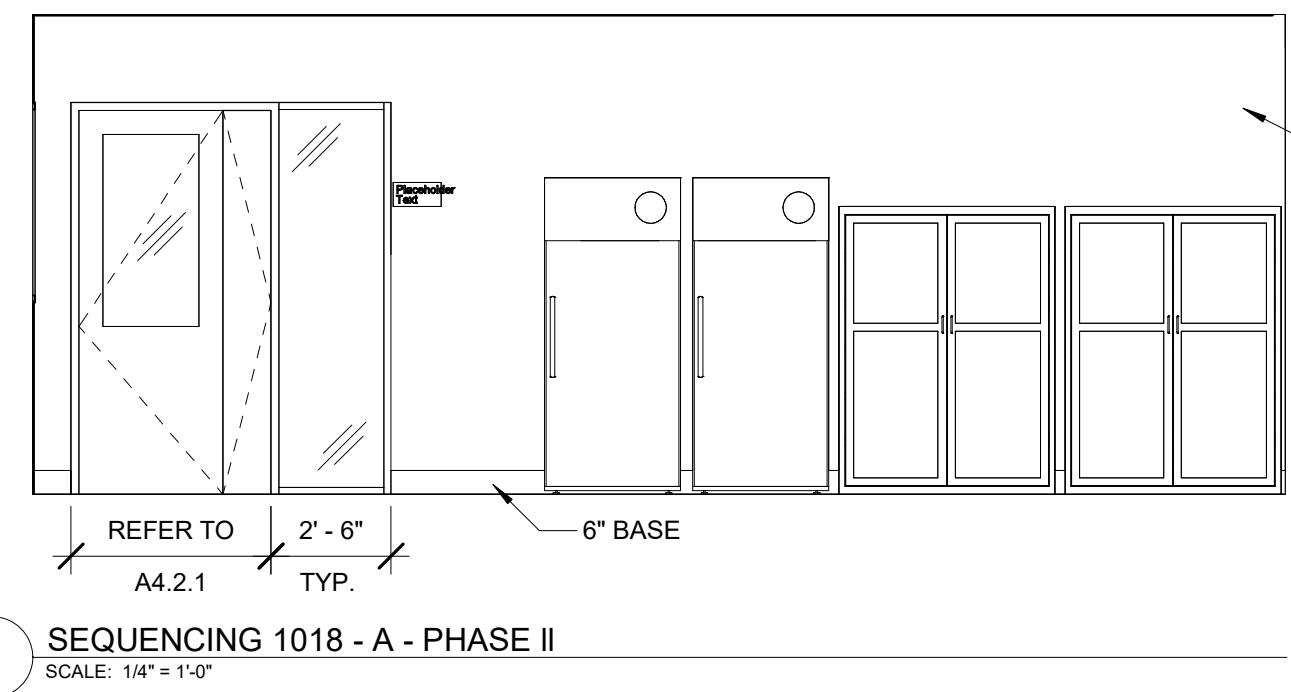
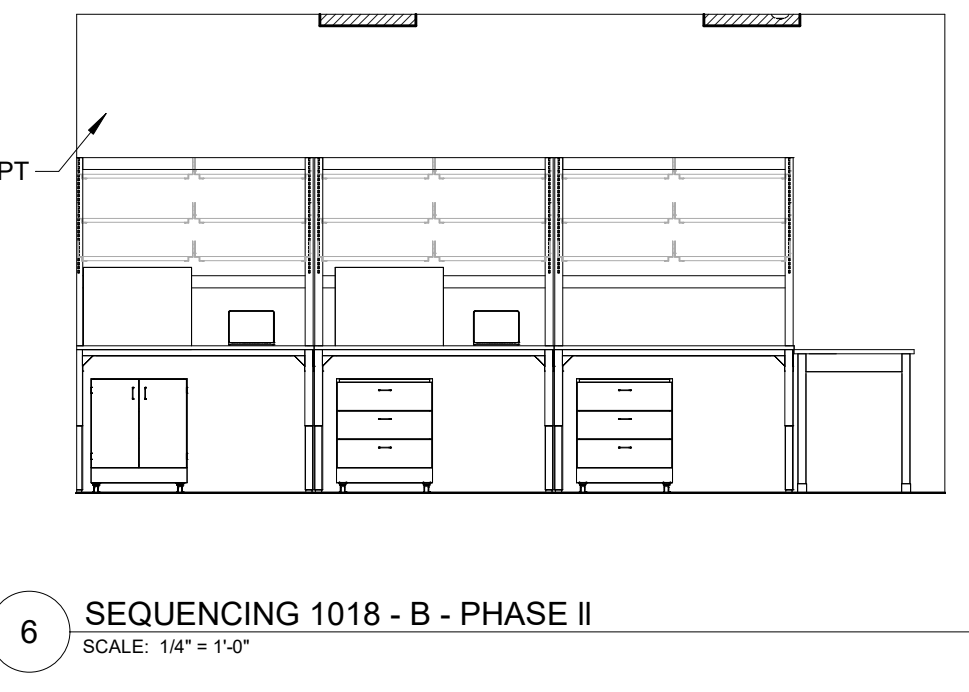
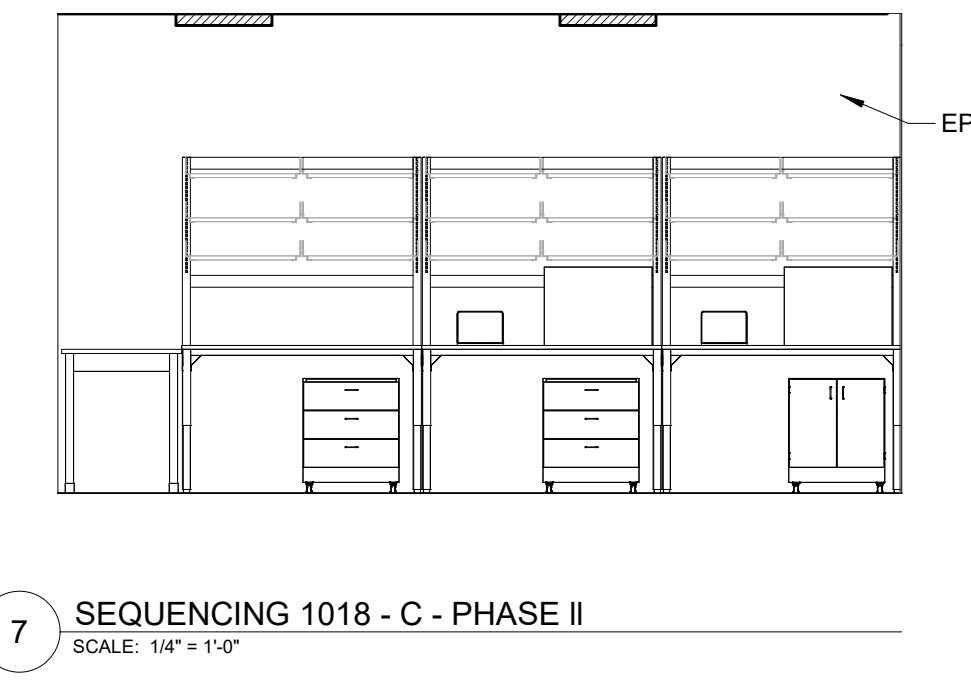
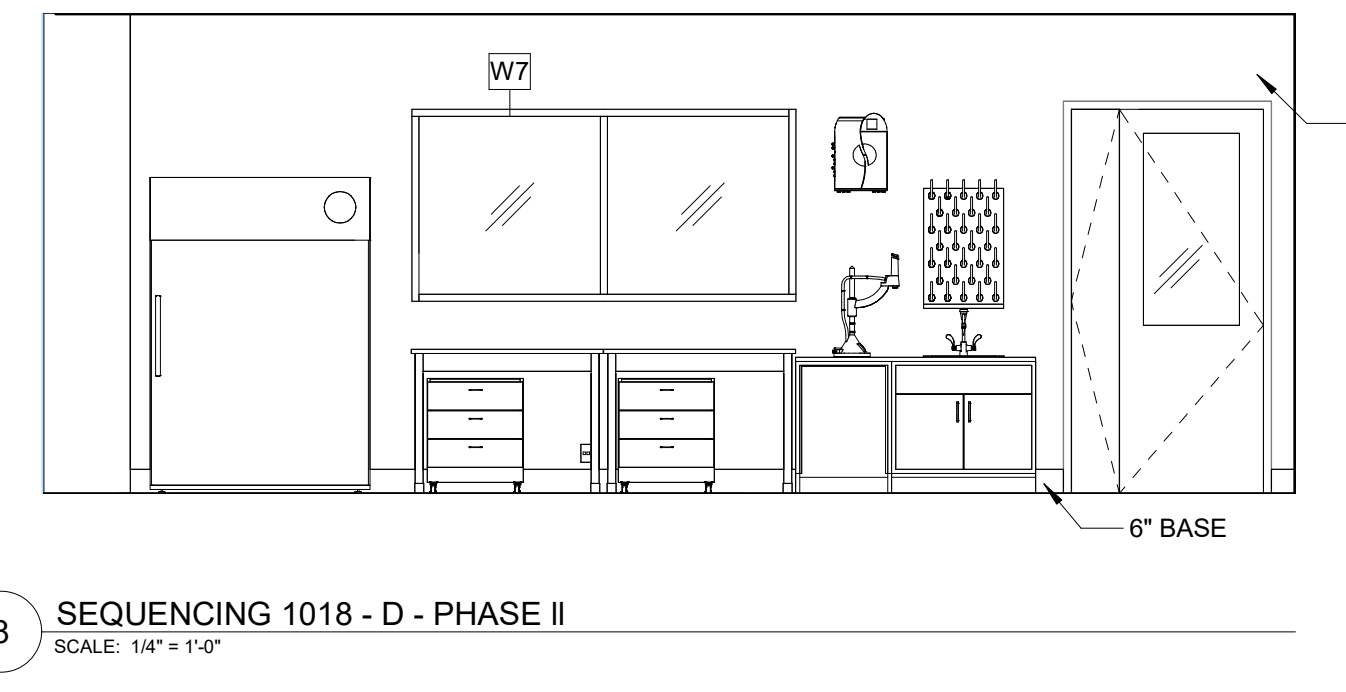
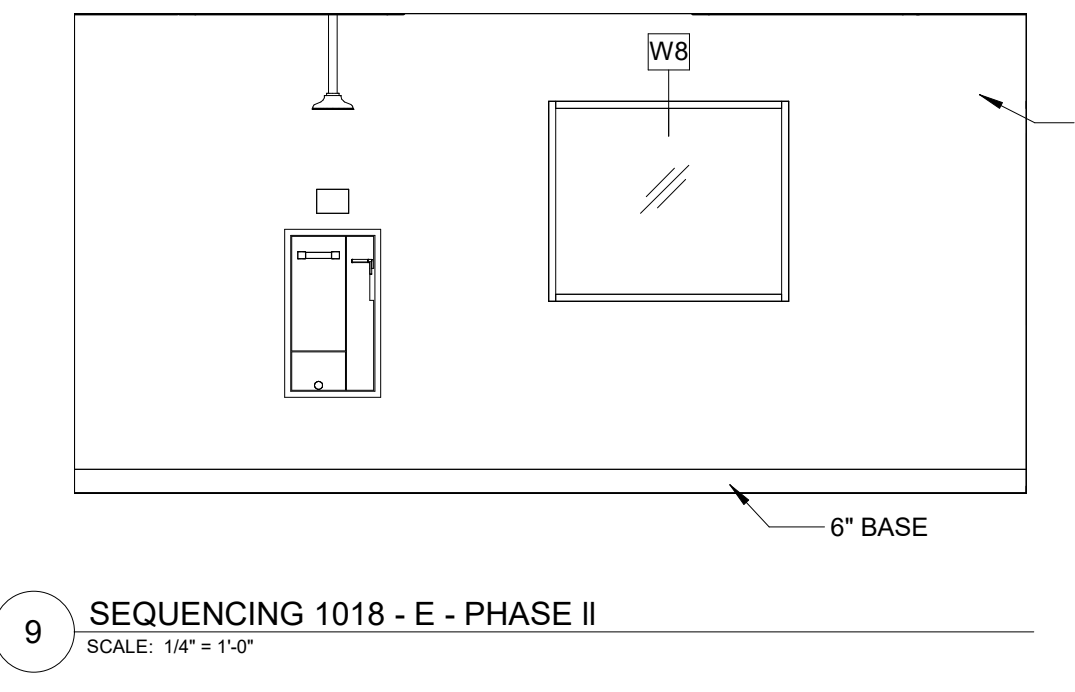
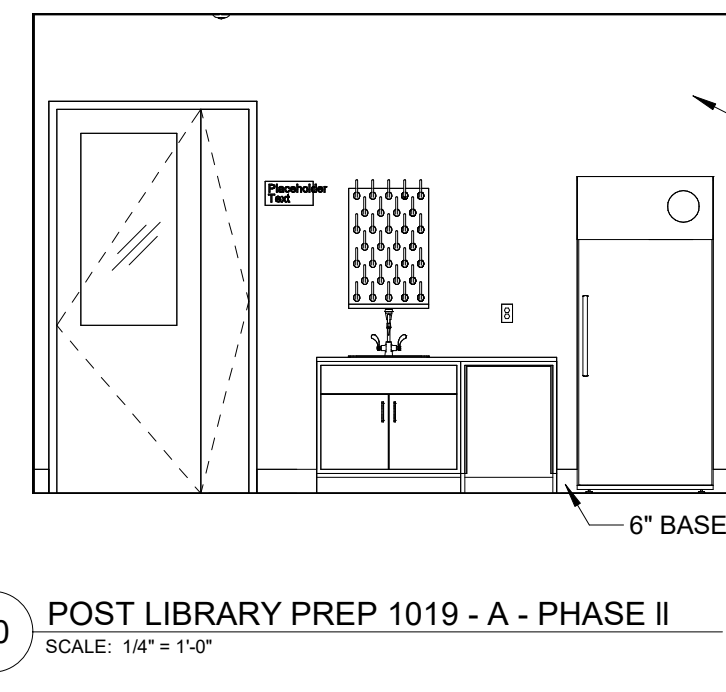
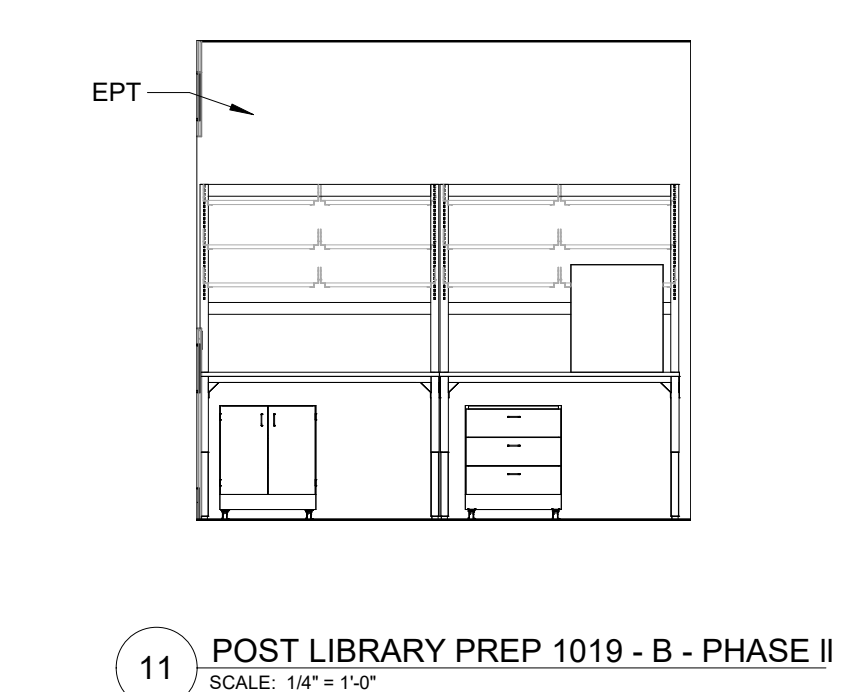
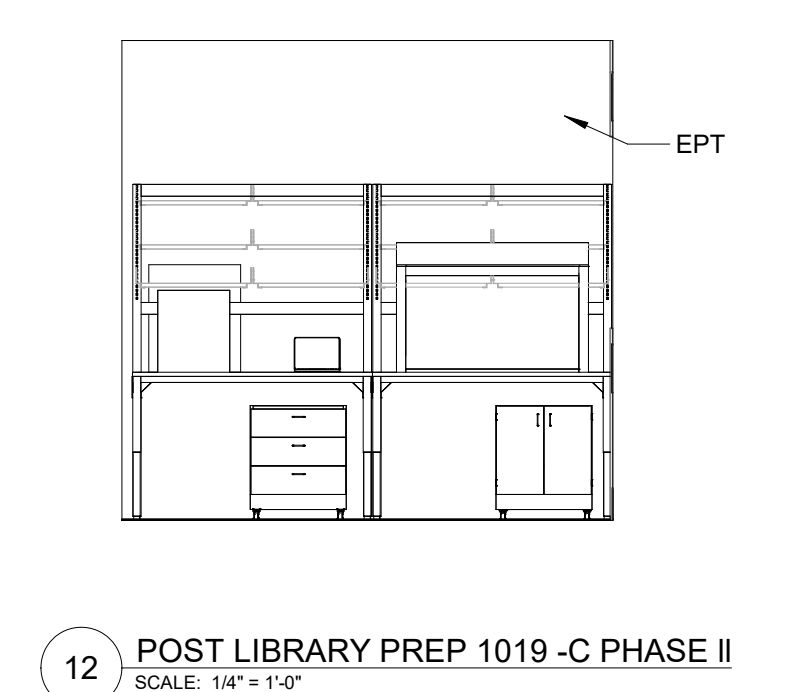
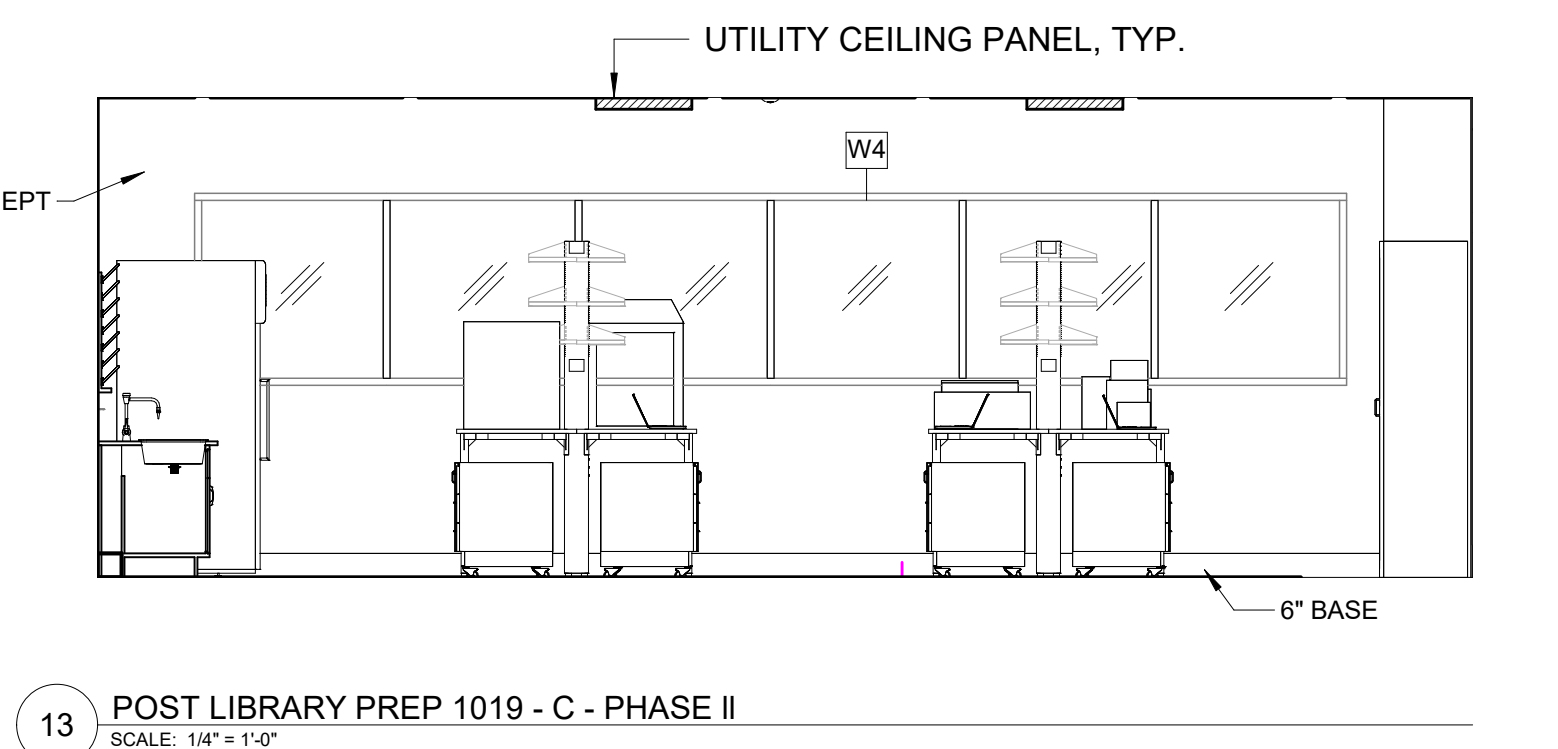
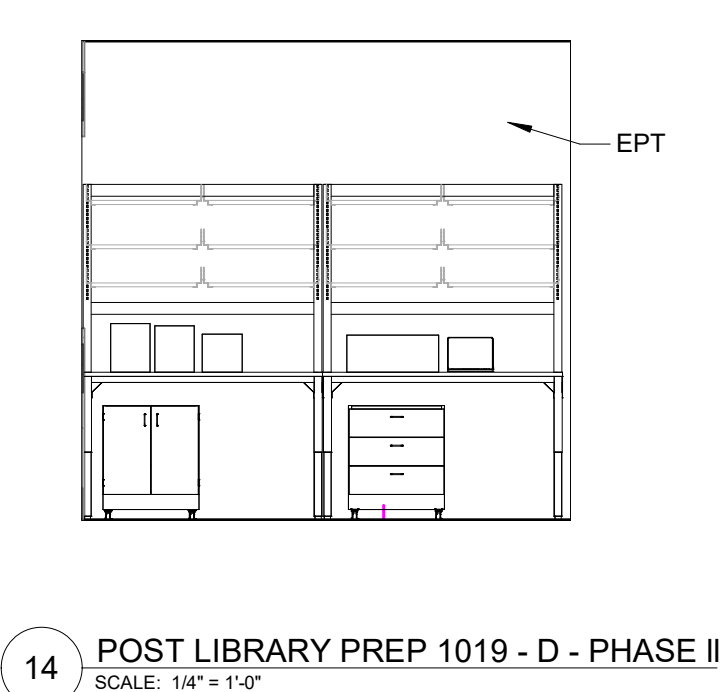
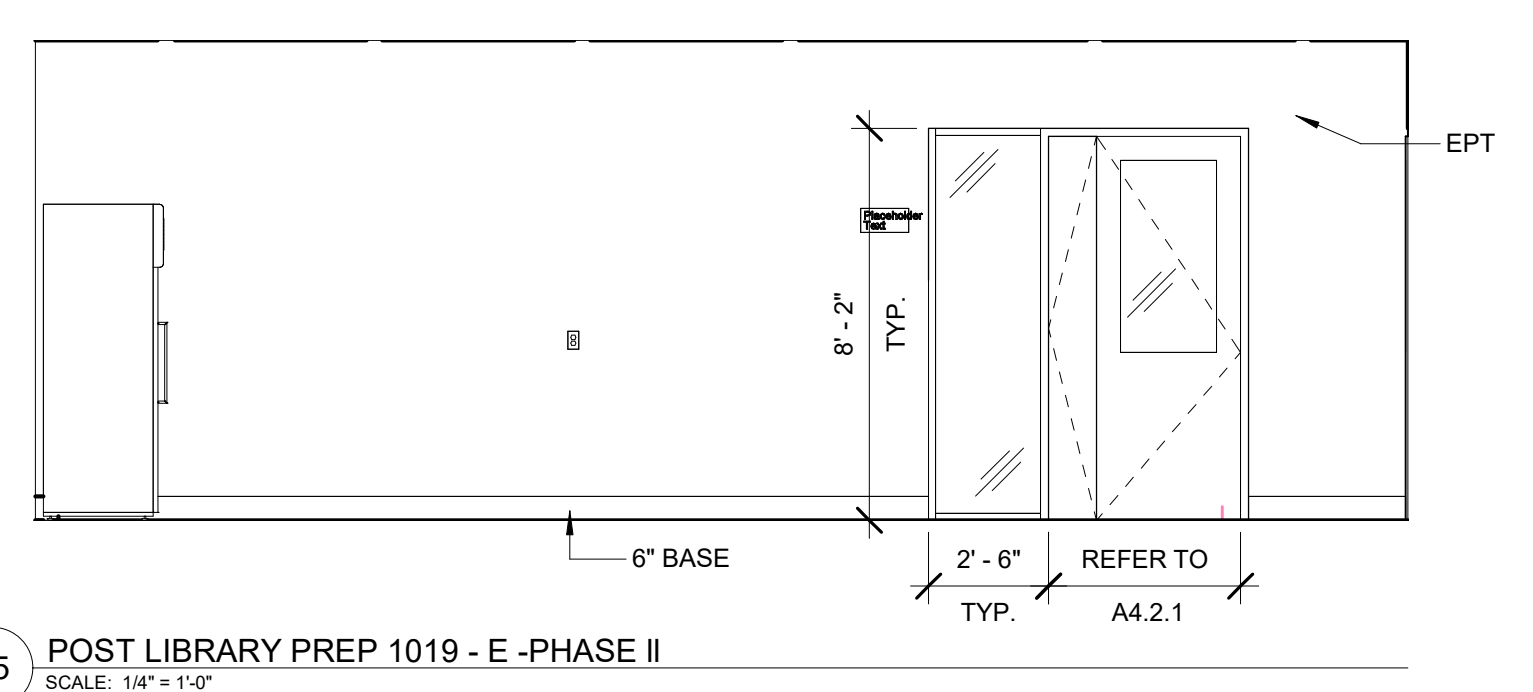
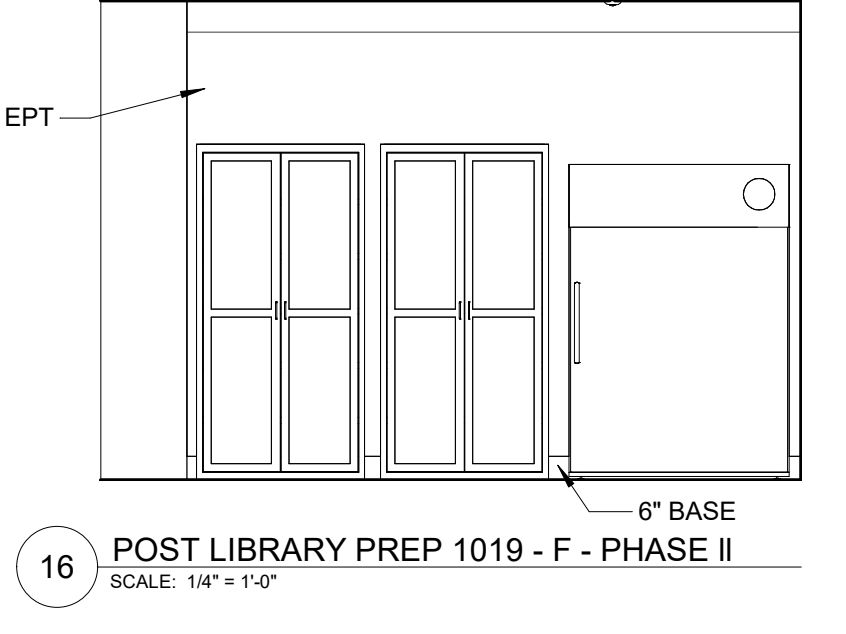
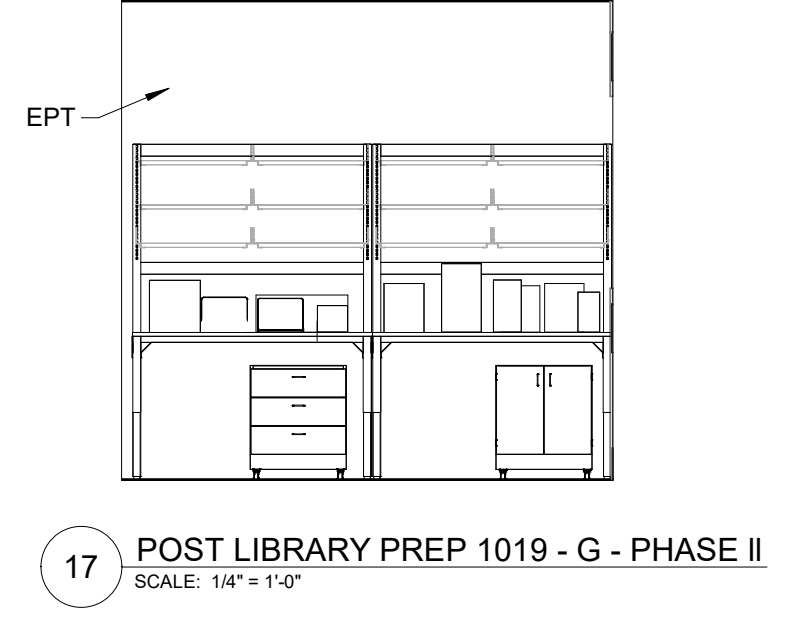
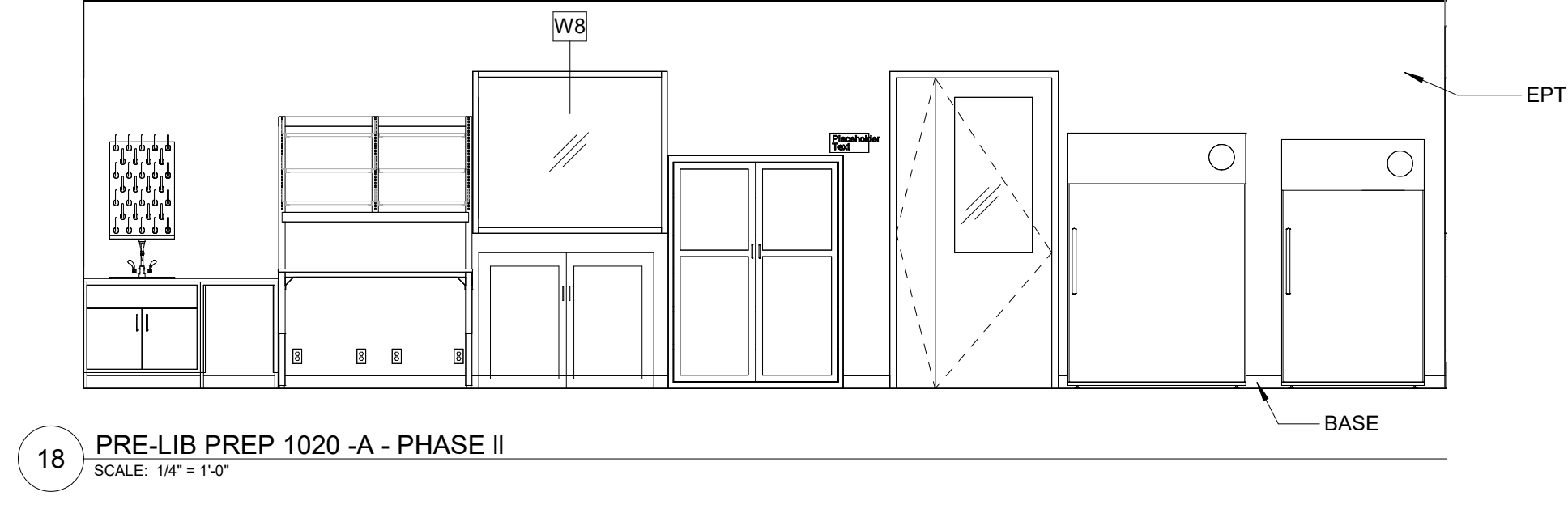
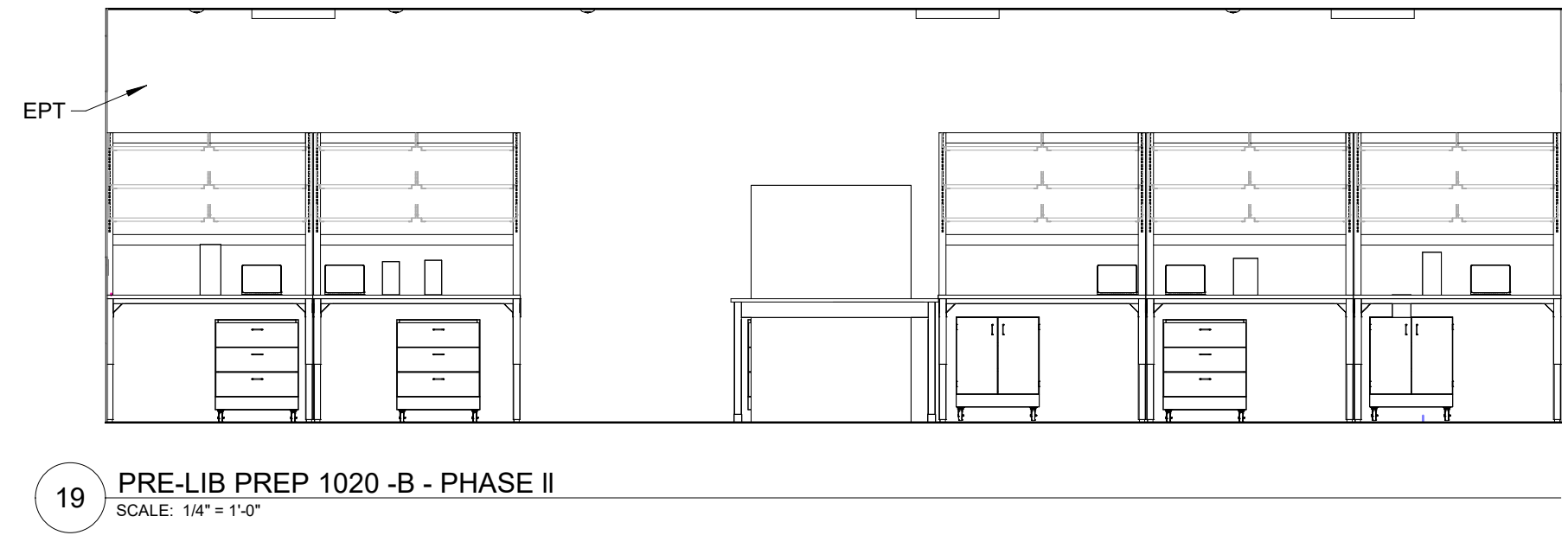
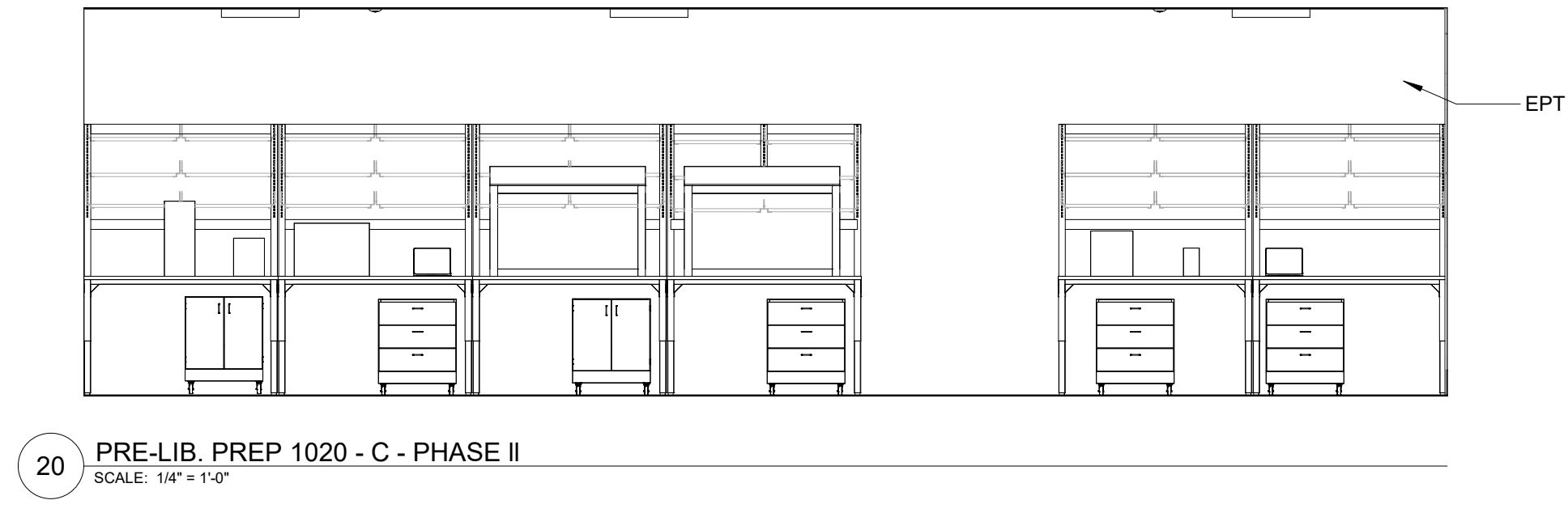
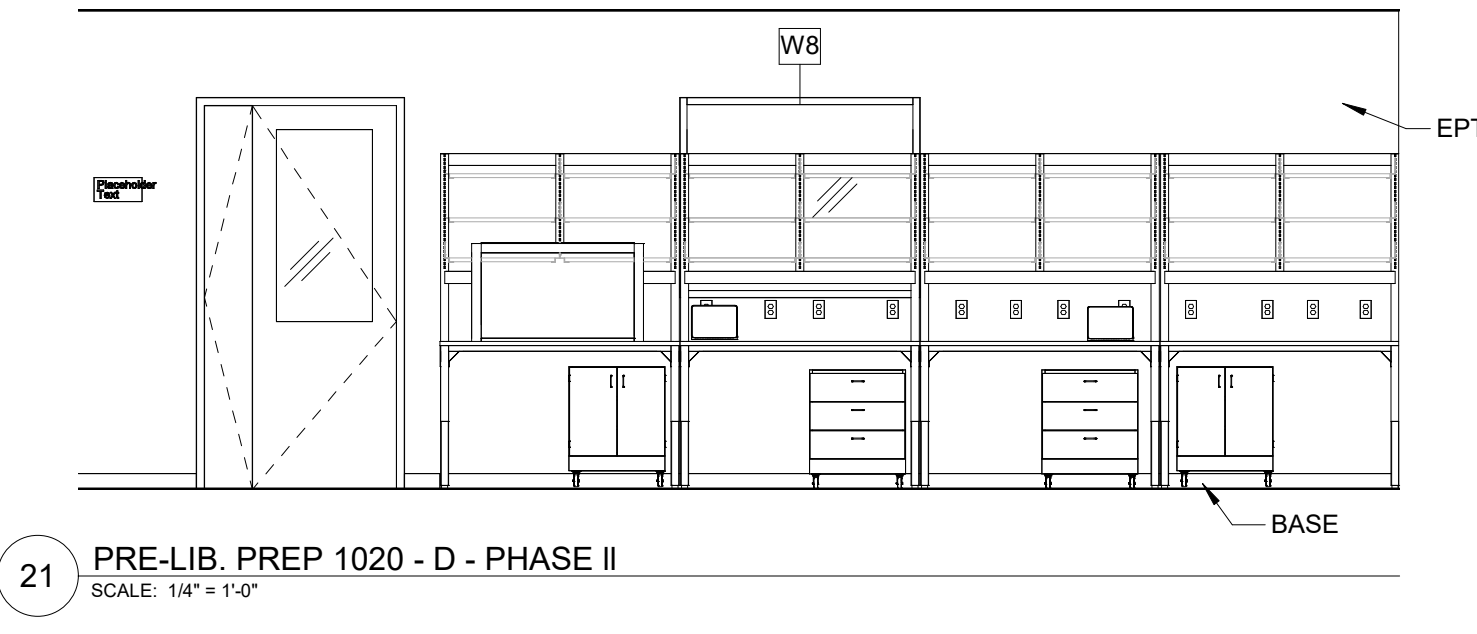
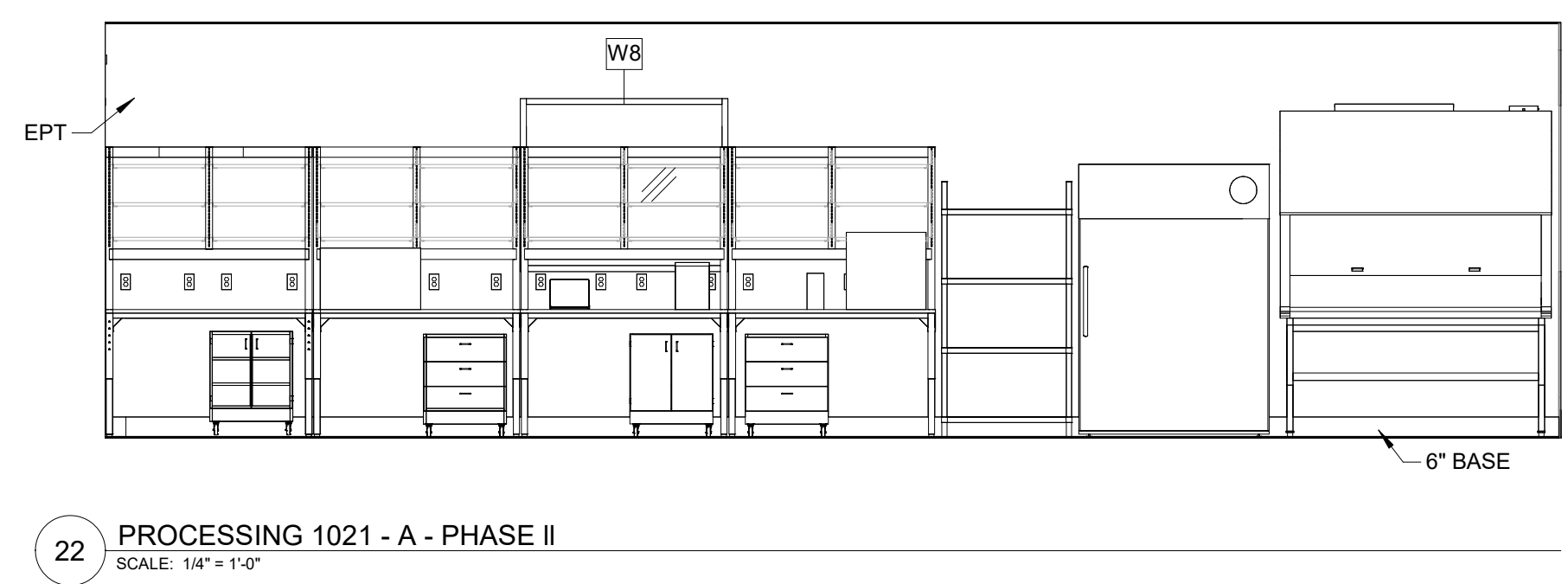
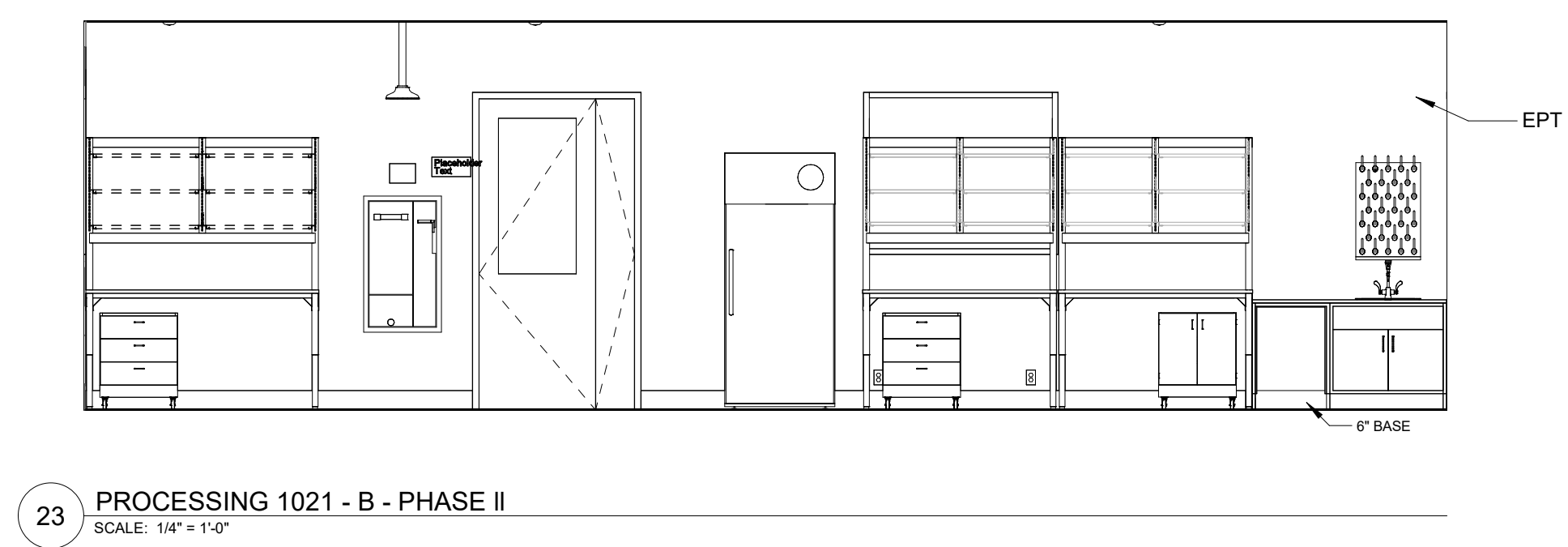
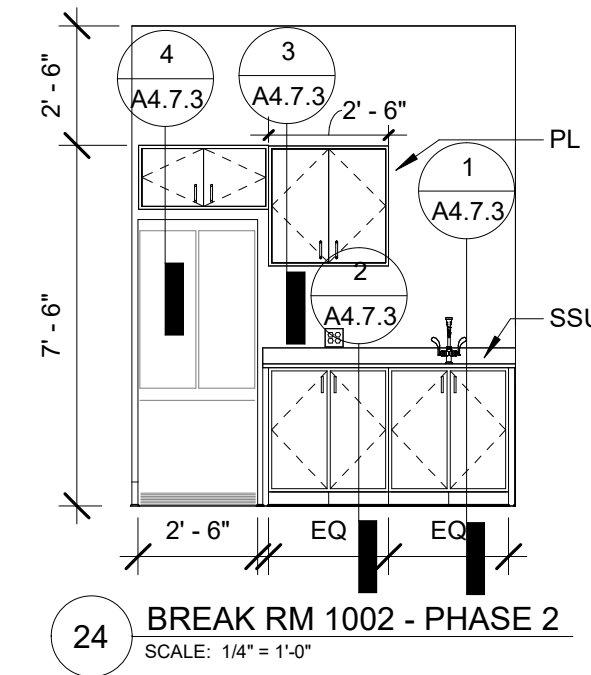
PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME ENLARGED PLANS - LEVEL 1 (LEVEL 2 SIMILAR) RESTROOMS

FLOOR/SECTION PHASE DRAWING NO.

NOT FOR CONSTRUCTION

CD A5.1.1



KEY PLAN

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REVISIONS

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DRAWN BY: RM DATE: 11.08.2024

PROJECT NO.: 20230523 SCALE: 1/4" = 1'-0"

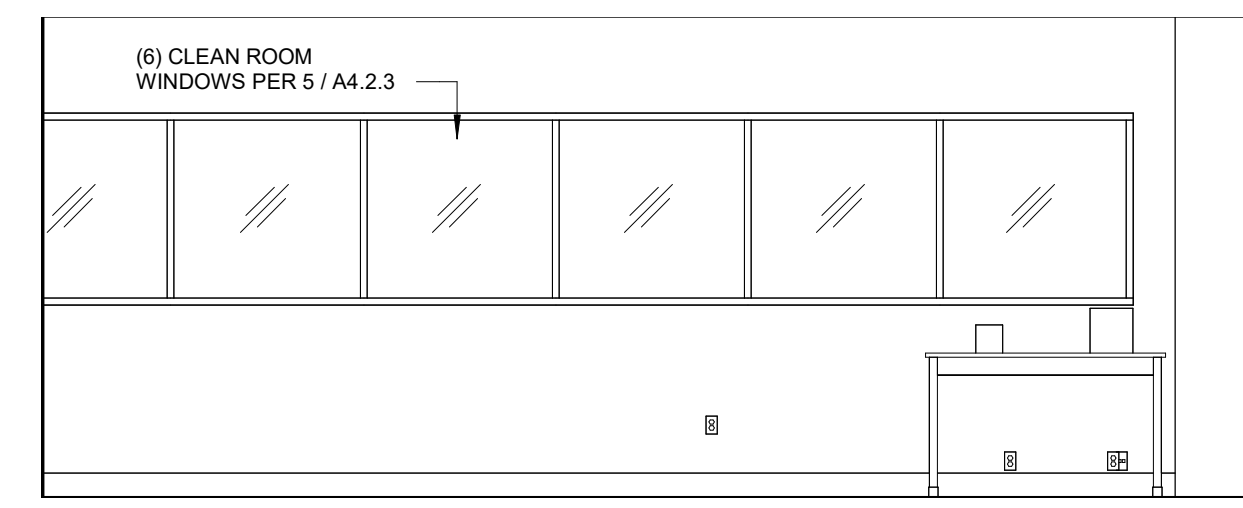
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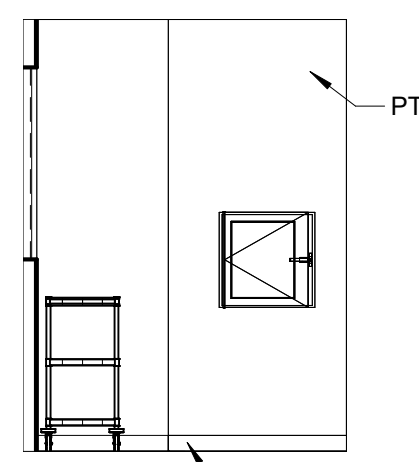
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CD A6.1.1

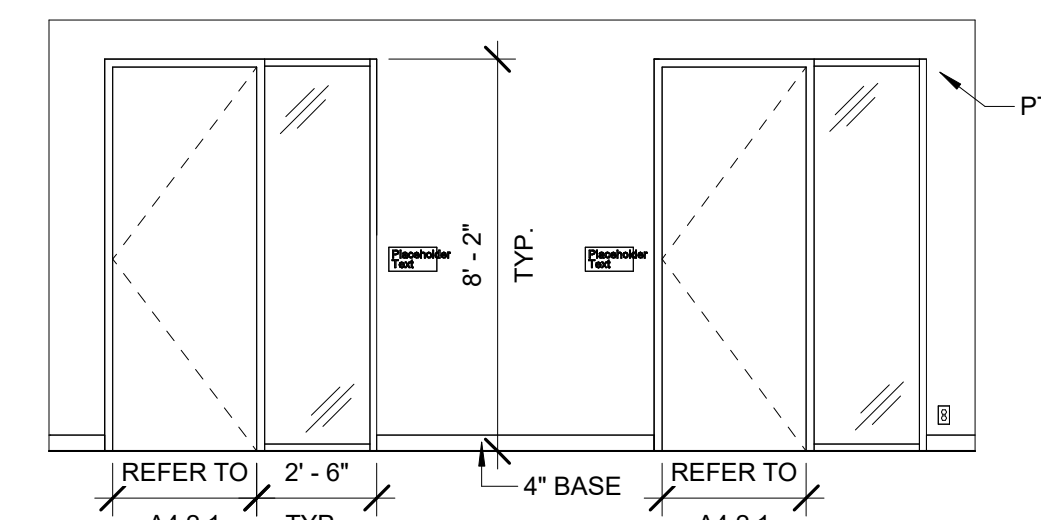
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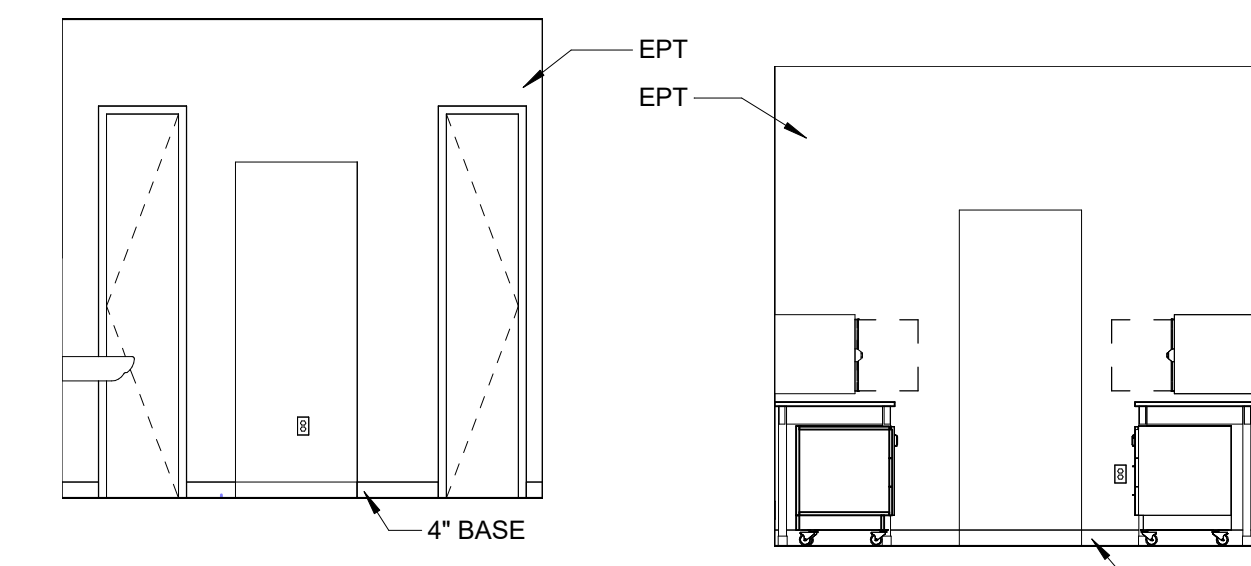
23 SAMP PREP - A
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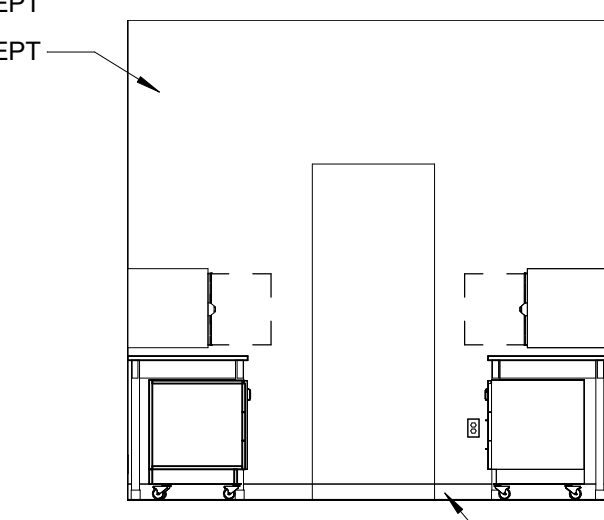
22 CORRIDOR 2036 - A
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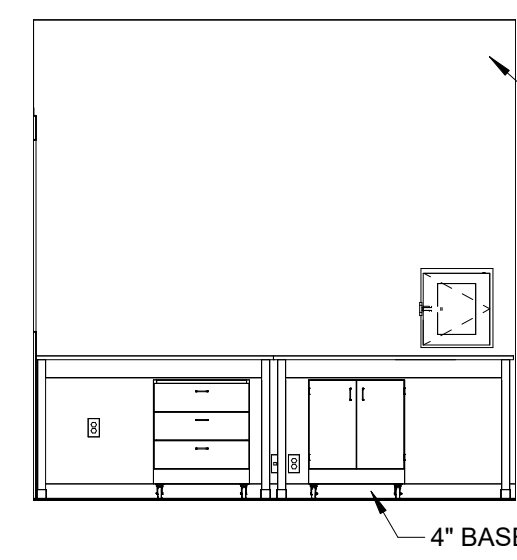
21 CORRIDOR 2036
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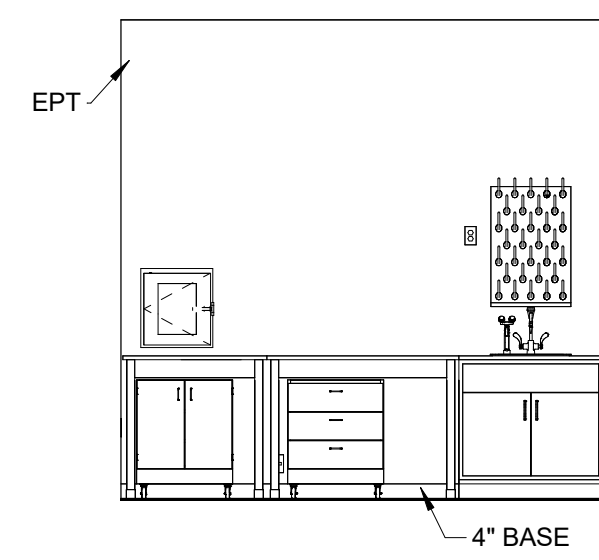
20 AUTOCLAV RM 2034
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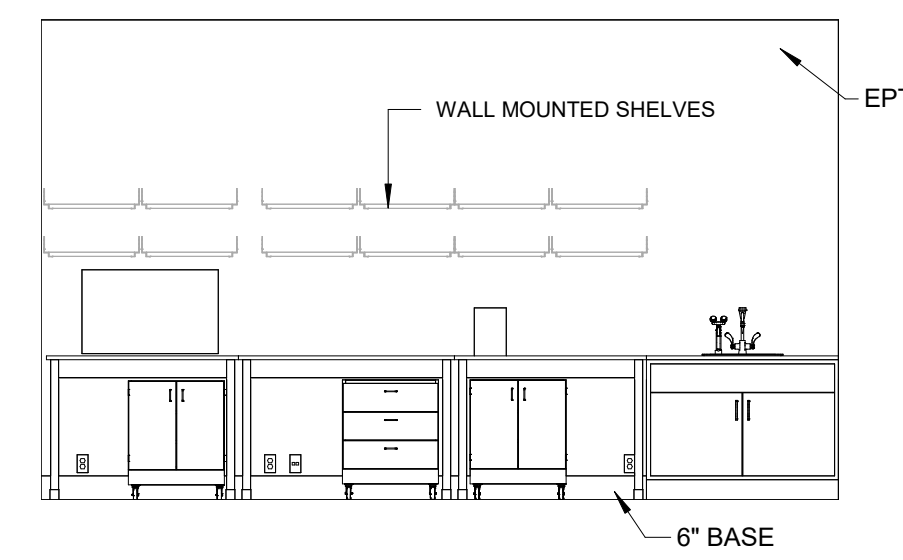
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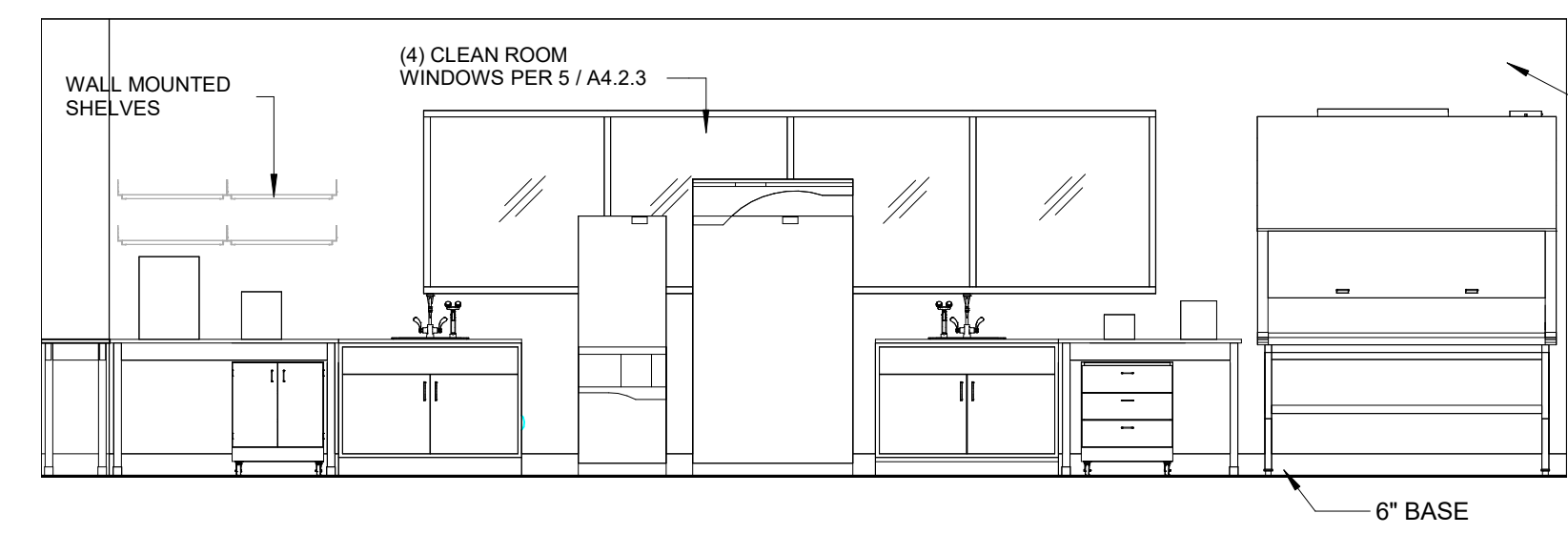
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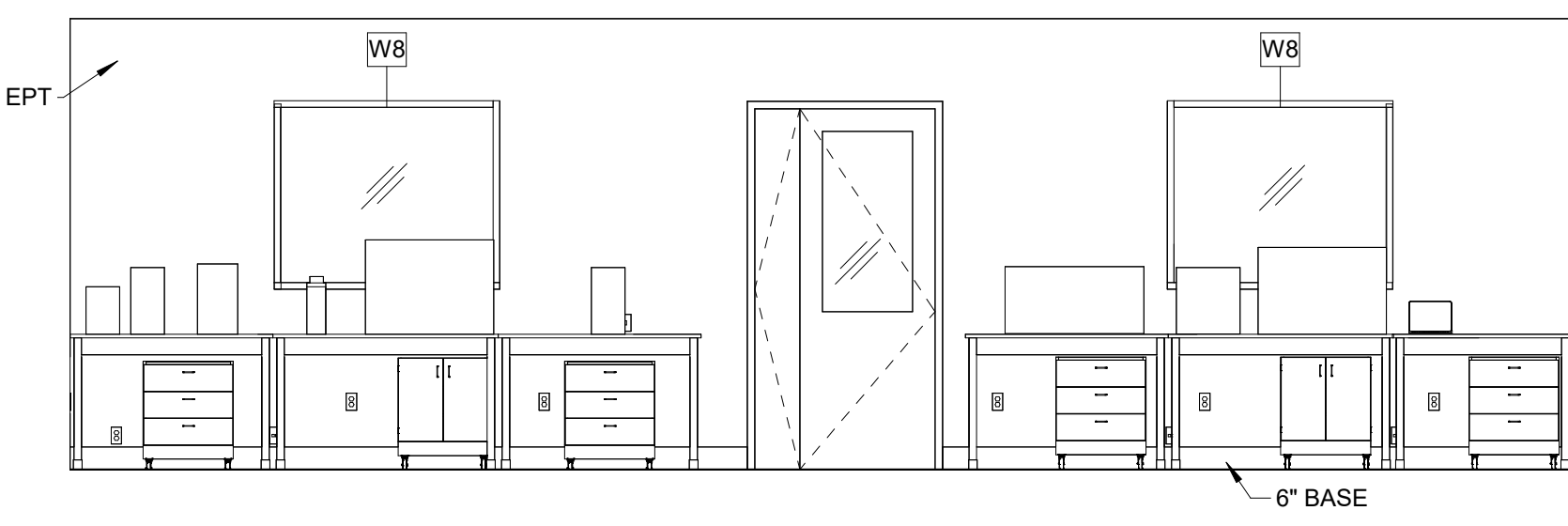
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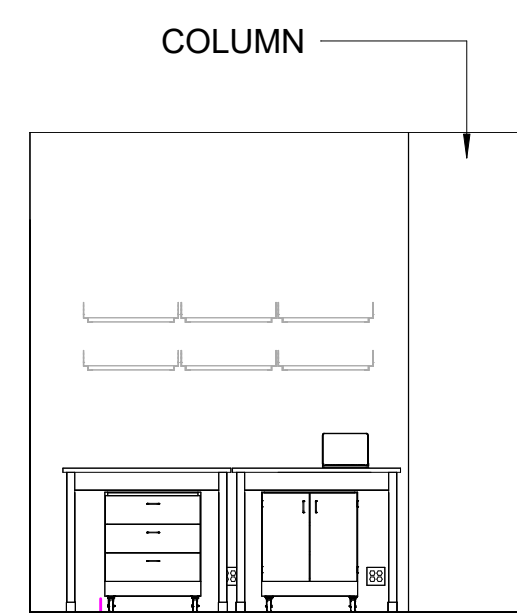
16 ACCESSIONING 2021
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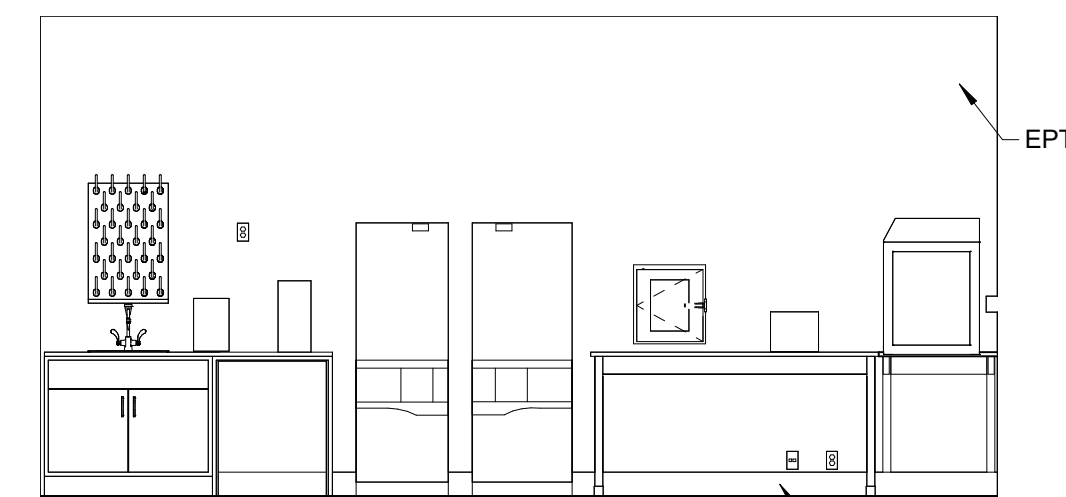
15 SAMPLE HANDLING 2022 - B
SCALE: 1/4" = 1'-0"



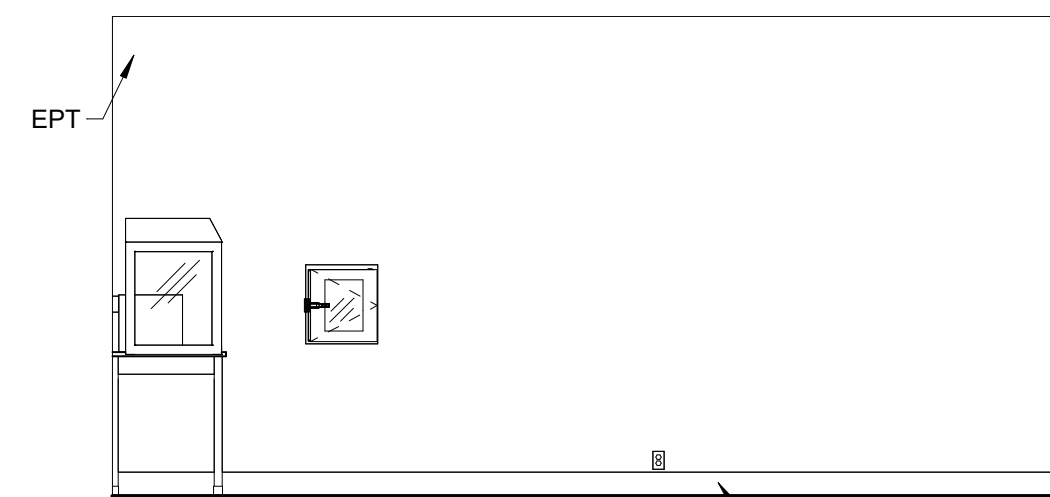
14 SAMPLE HANDLING 2022 - A
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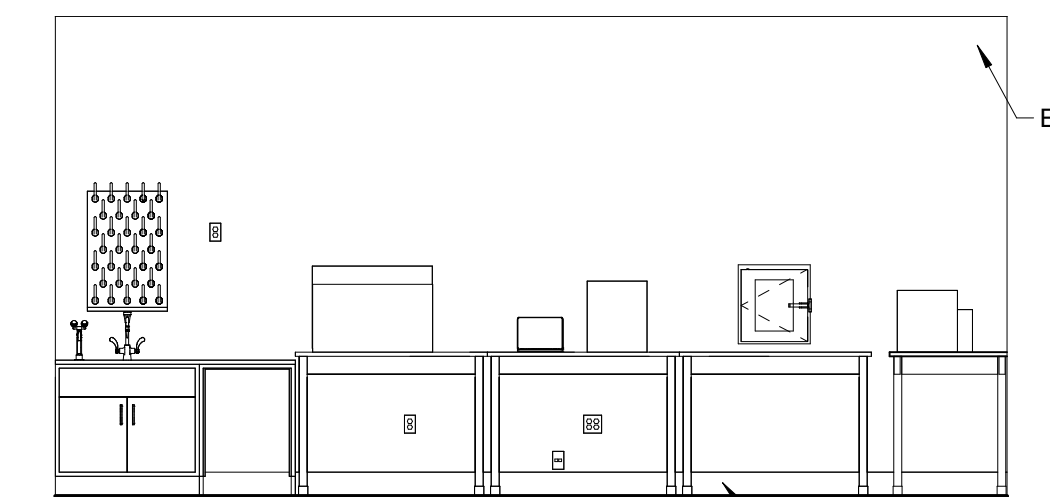
13 DARK RM - 2023
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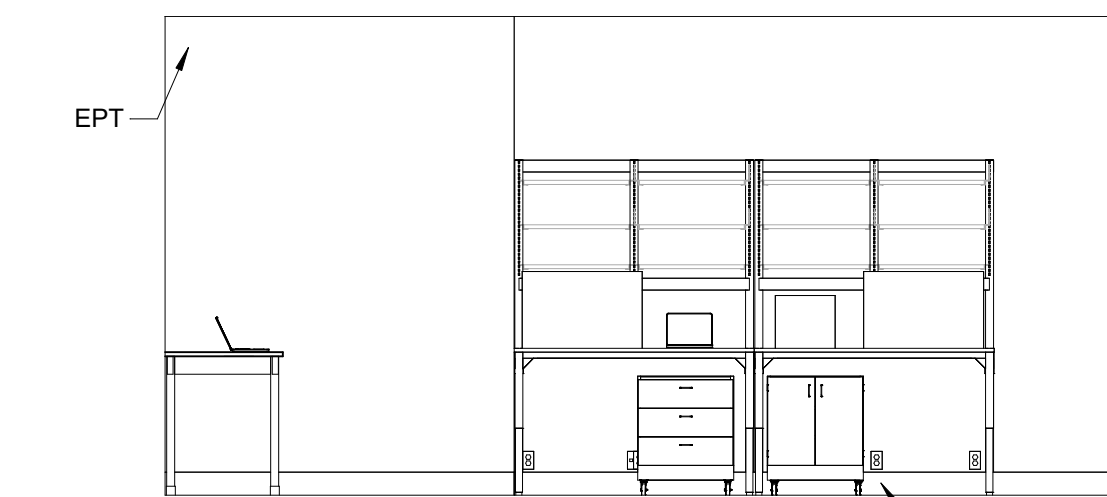
12 PCR AMP 2025 - B
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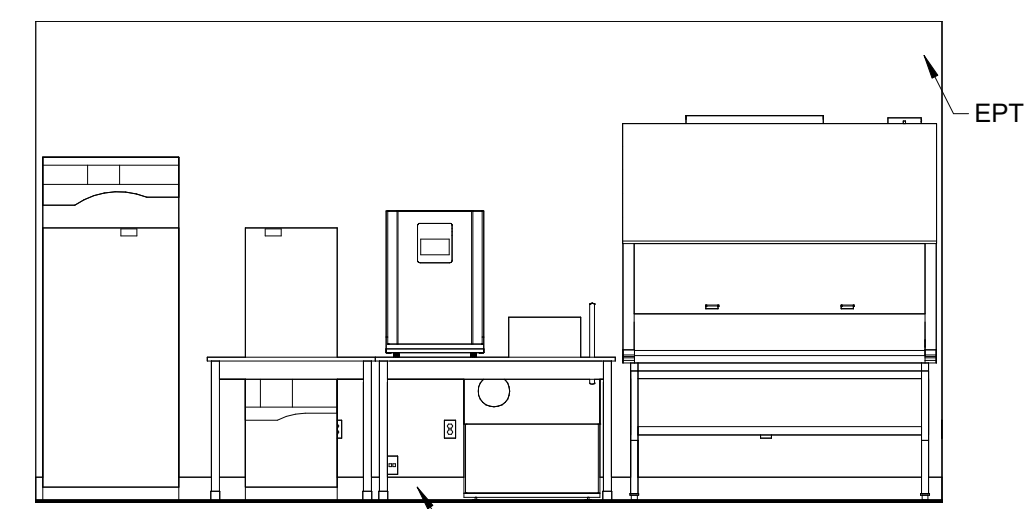
11 PCR AMP 2025 - A
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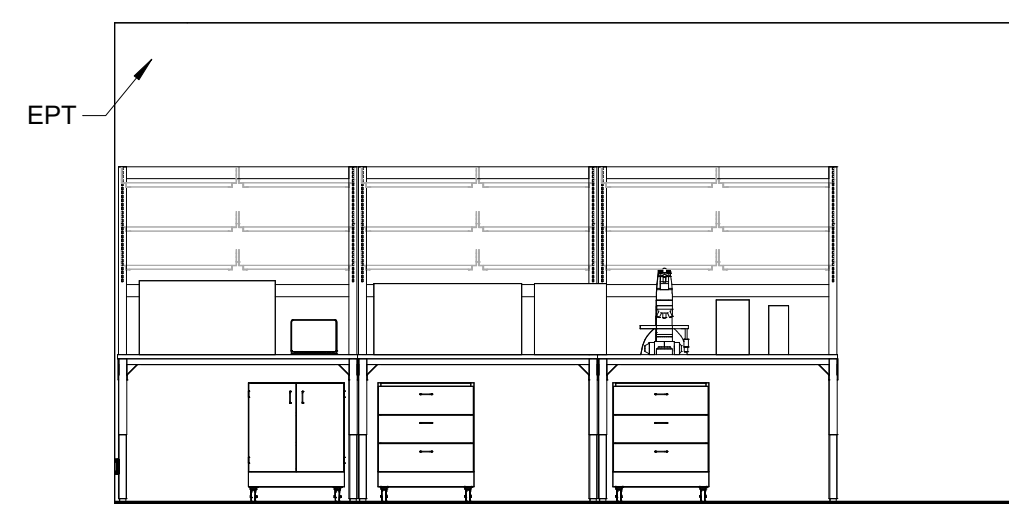
10 POST PCR 2026 - B
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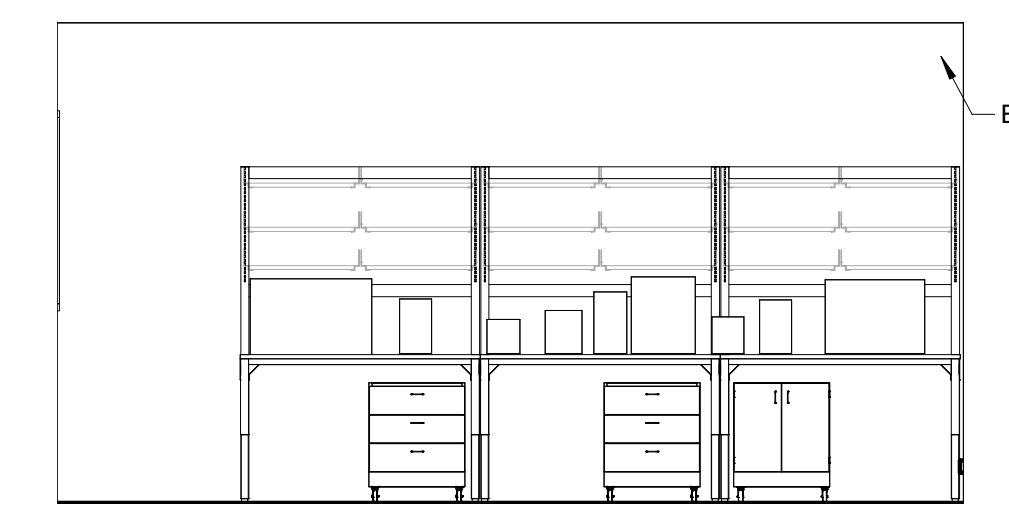
9 POST PCR 2026 - A
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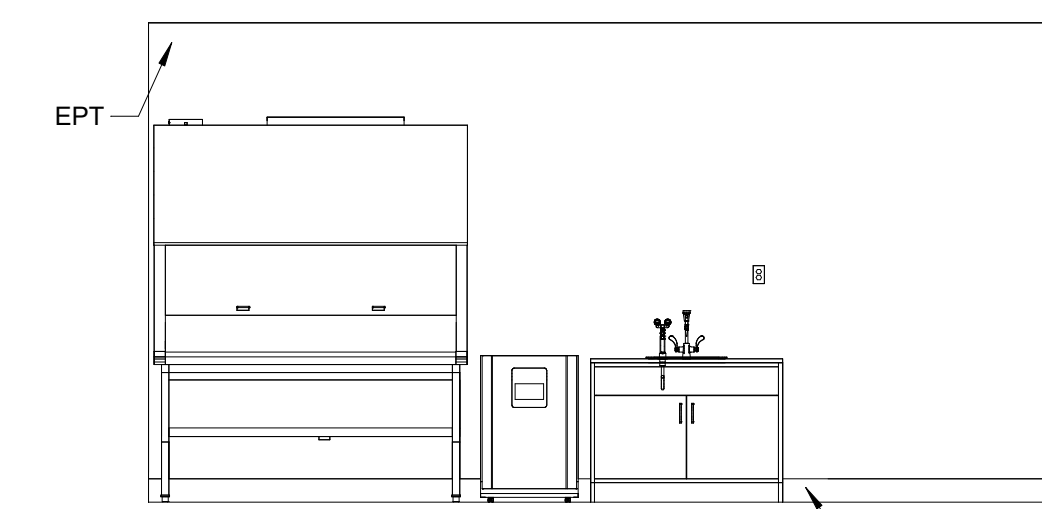
8 CONVENTIONAL TEST LAB 2028 - D
SCALE: 1/4" = 1'-0"



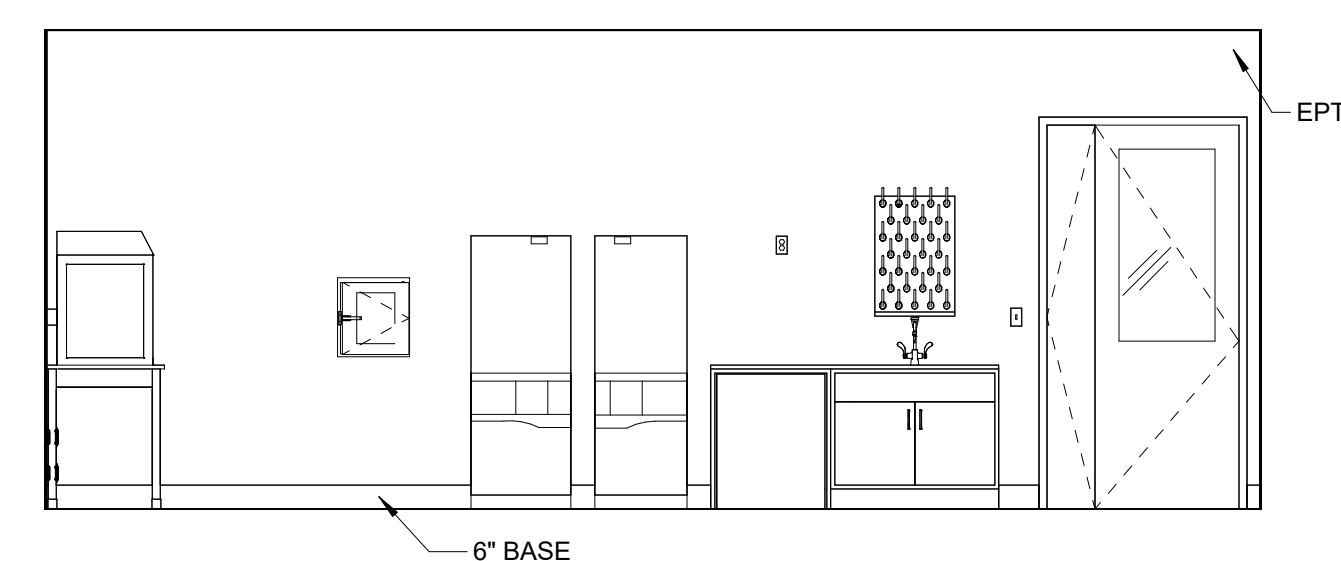
7 CONVENTIONAL TEST LAB 2028 - C
SCALE: 1/4" = 1'-0"



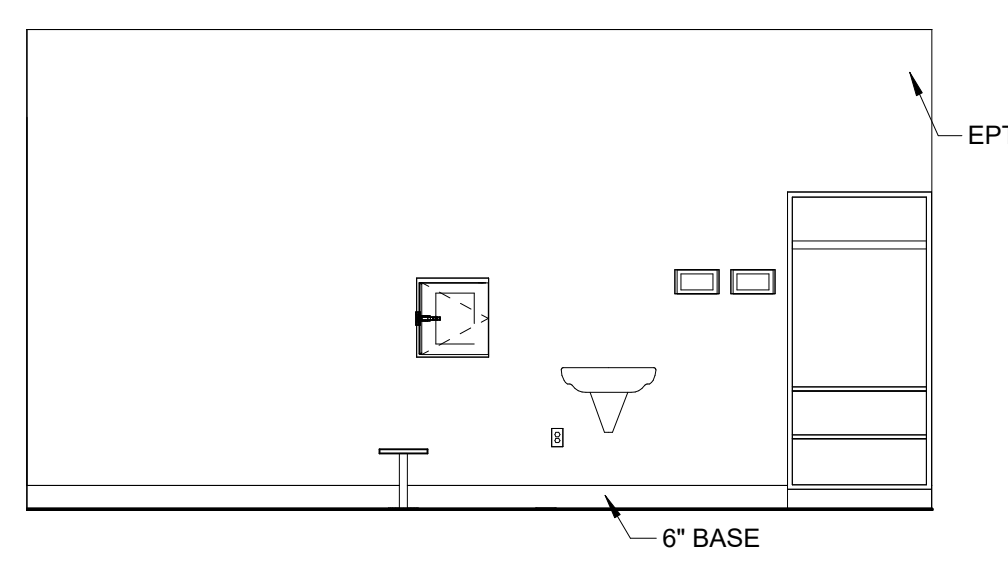
6 CONVENTIONAL TEST LAB 2028 - B - PHASE I - SECTOR B
SCALE: 1/4" = 1'-0"



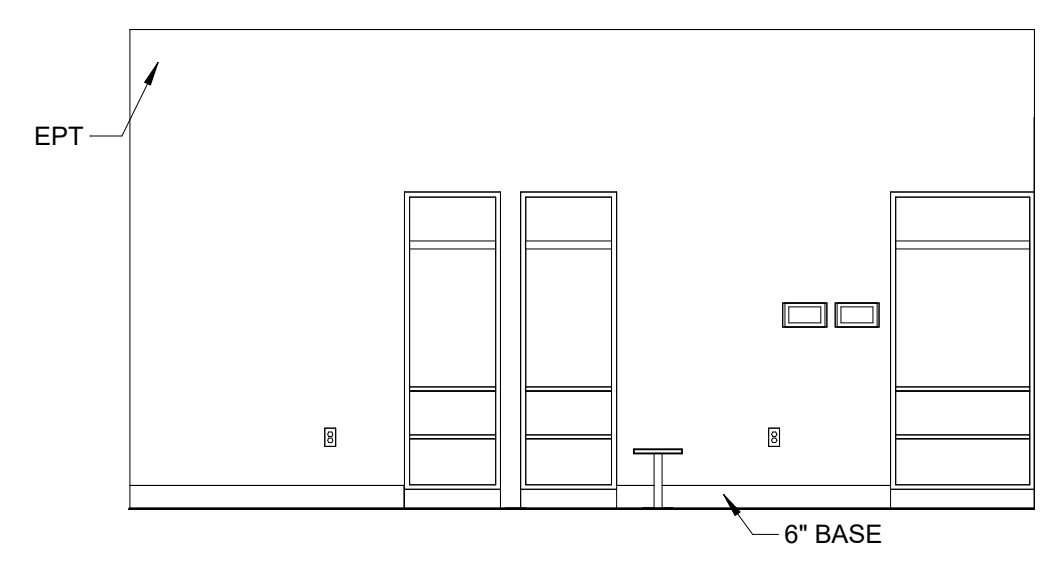
5 CONVENTIONAL TEST LAB 2028 - A
SCALE: 1/4" = 1'-0"



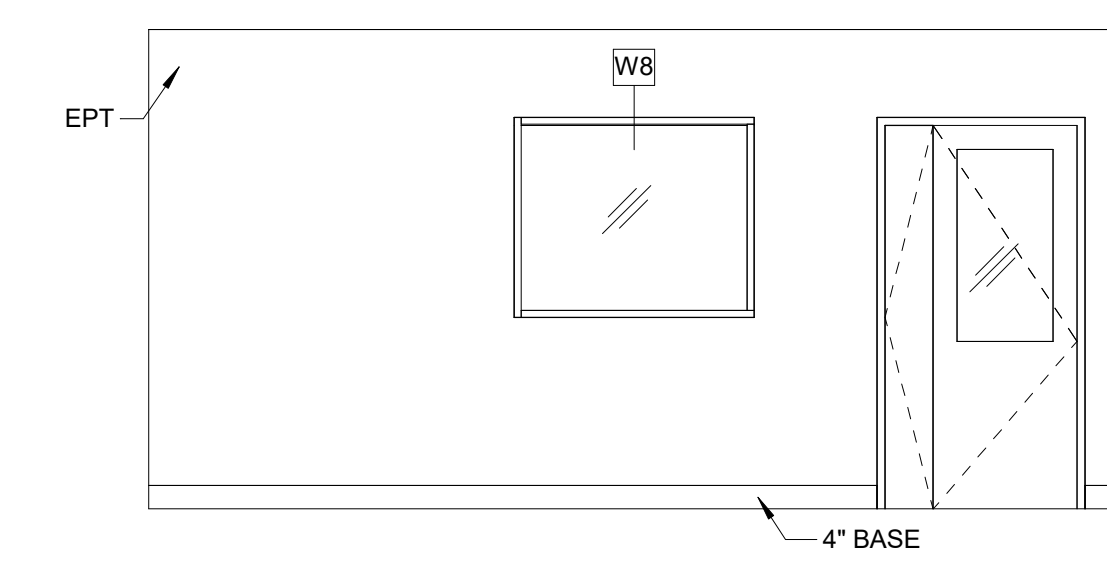
4 SAMP PREP 2024 - SECTOR B
SCALE: 1/4" = 1'-0"



3 ANTE ROOM 2020 - B
SCALE: 1/4" = 1'-0"



2 ANTE ROOM 2020 - A
SCALE: 1/4" = 1'-0"



1 CORRIDOR 2035 - A
SCALE: 1/4" = 1'-0"

KEY PLAN

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ARCHITECTURAL DESIGNER
RICARDO MOLINA

REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D			10.11.2024
C		ISSUED FOR OWNER'S REVIEW	09.26.2024
B		DESIGN DEVELOPMENT	05.24.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY _____ RM DATE 11.08.2024

PROJECT NO. 20230523 SCALE 1/4" = 1'-0"

DRAWING NAME

INTERIOR ELEVATIONS - LEVEL 2 - SECTOR B - PHASE I

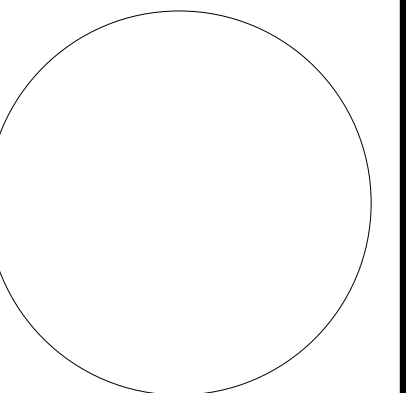
FLOOR/SECTION PHASE DRAWING NO.

NOT FOR CONSTRUCTION

CD A6.1.2

KEY PLAN

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REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D		ISSUED FOR OWNER'S REVIEW	10.11.2024
C		DESIGN DEVELOPMENT	09.26.2024
B		DESIGN DEVELOPMENT	05.24.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY _____ RM DATE 11.08.2024

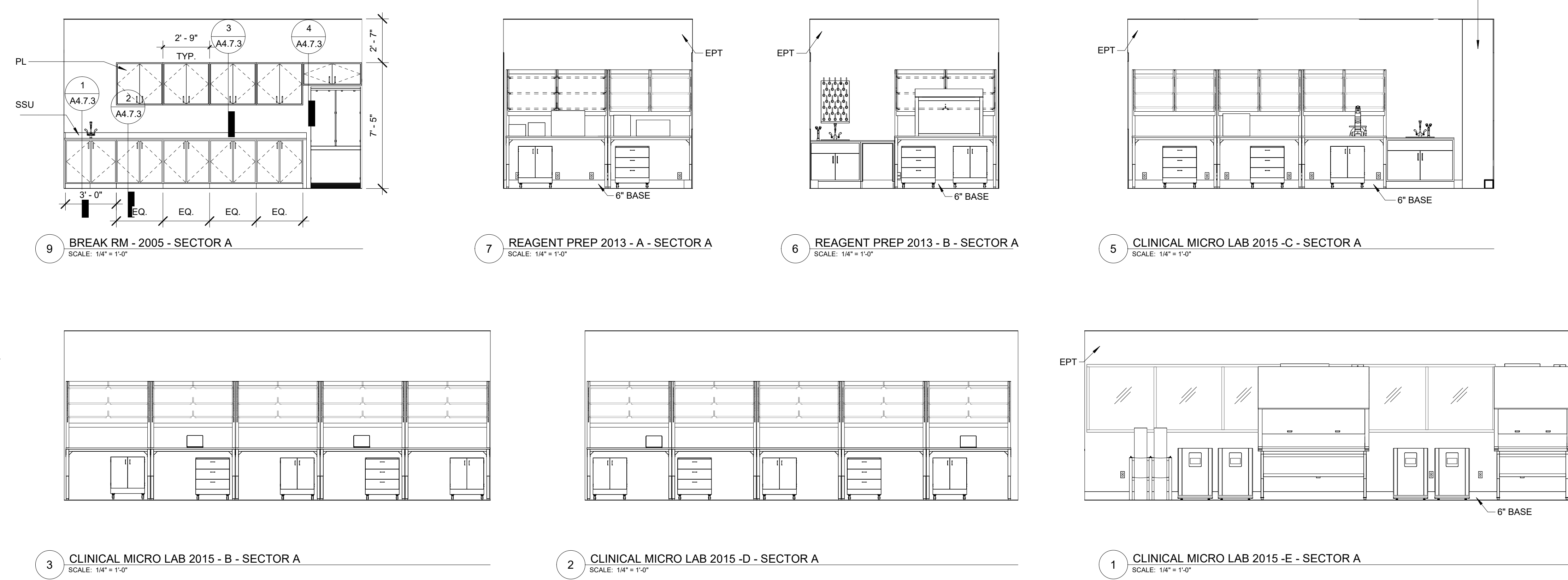
PROJECT NO. 20230523 SCALE 1/4" = 1'-0"
DRAWING NAME

INTERIOR ELEVATIONS - LEVEL 2 - SECTOR A & B - PHASE II

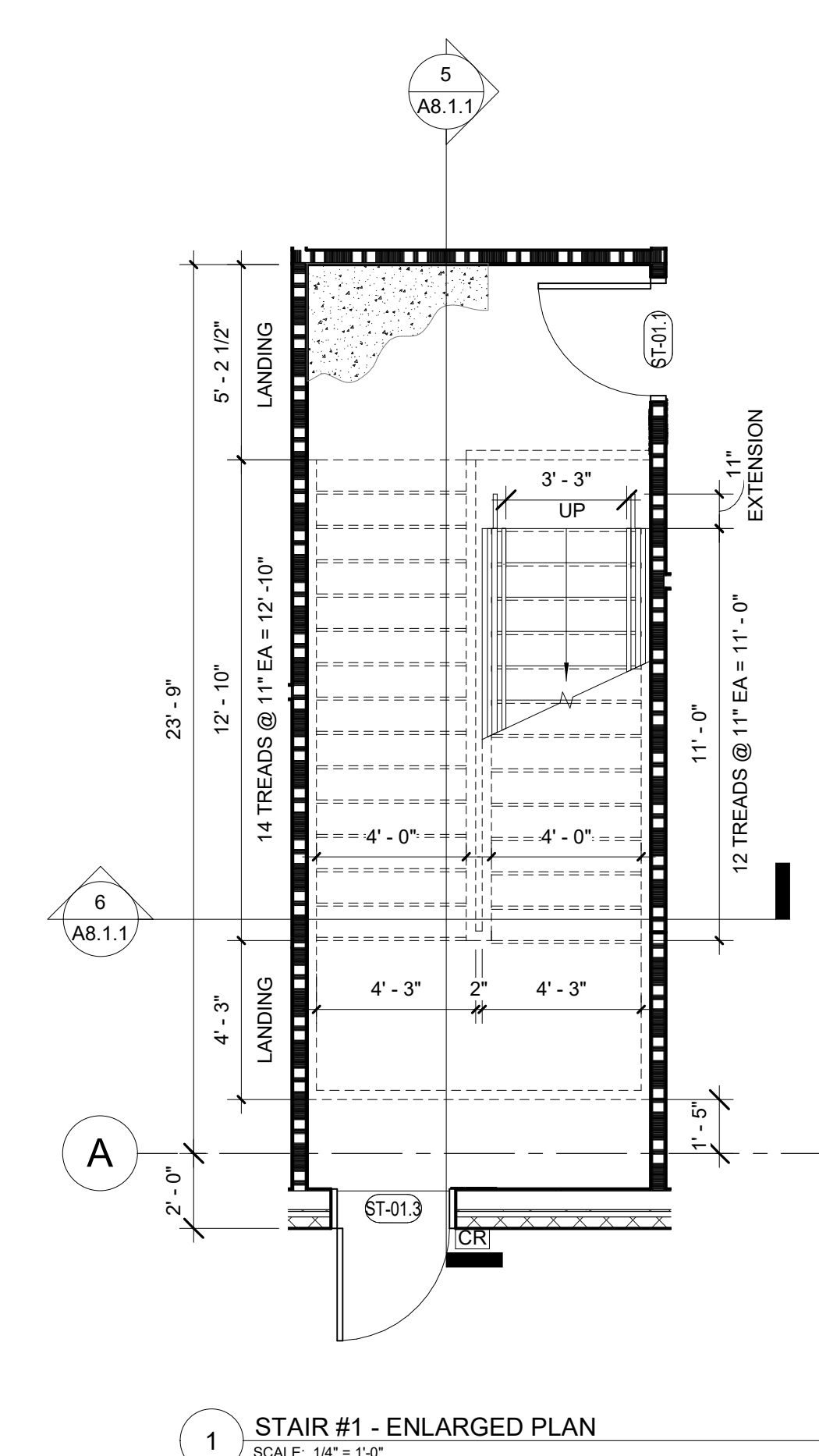
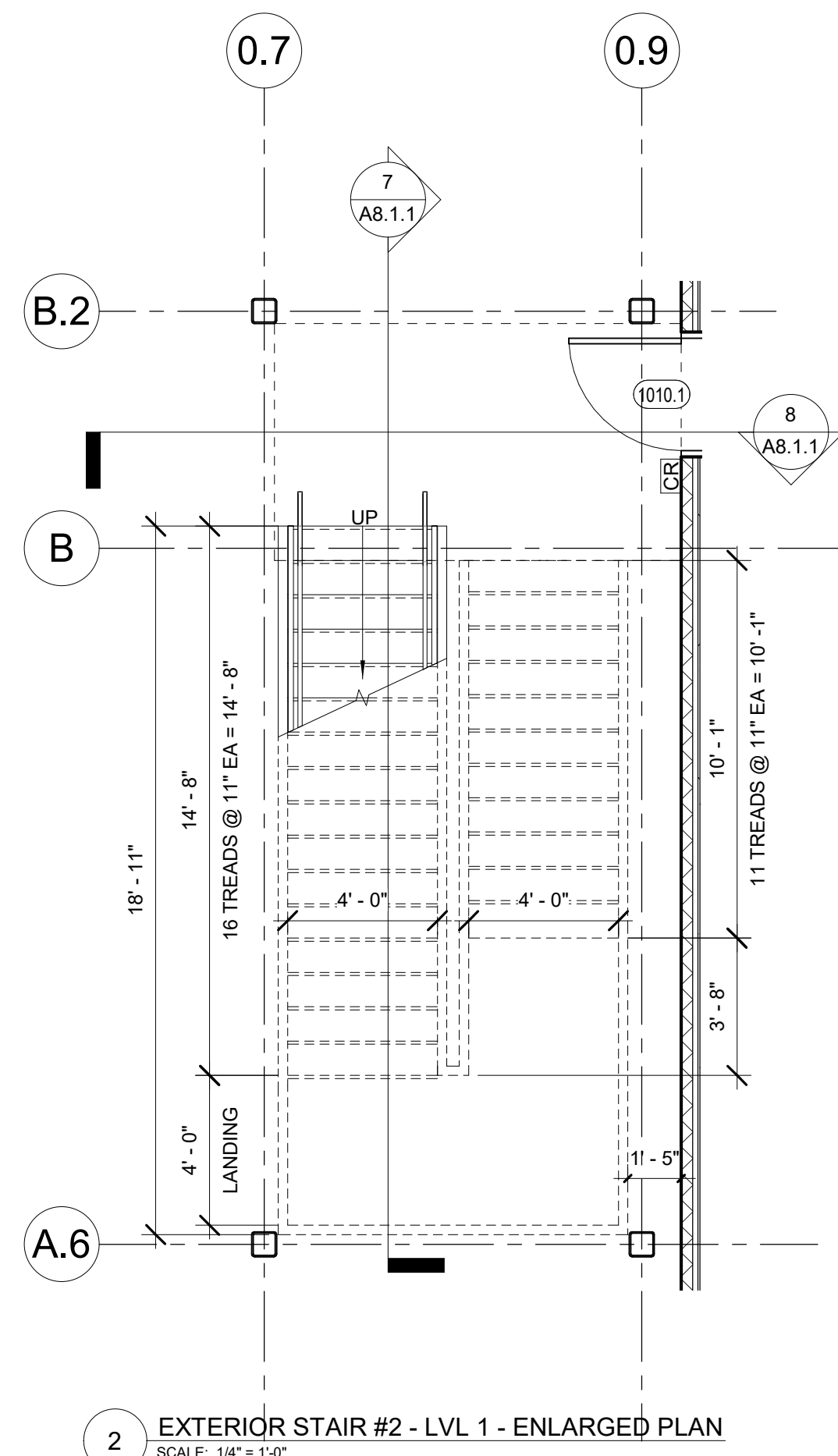
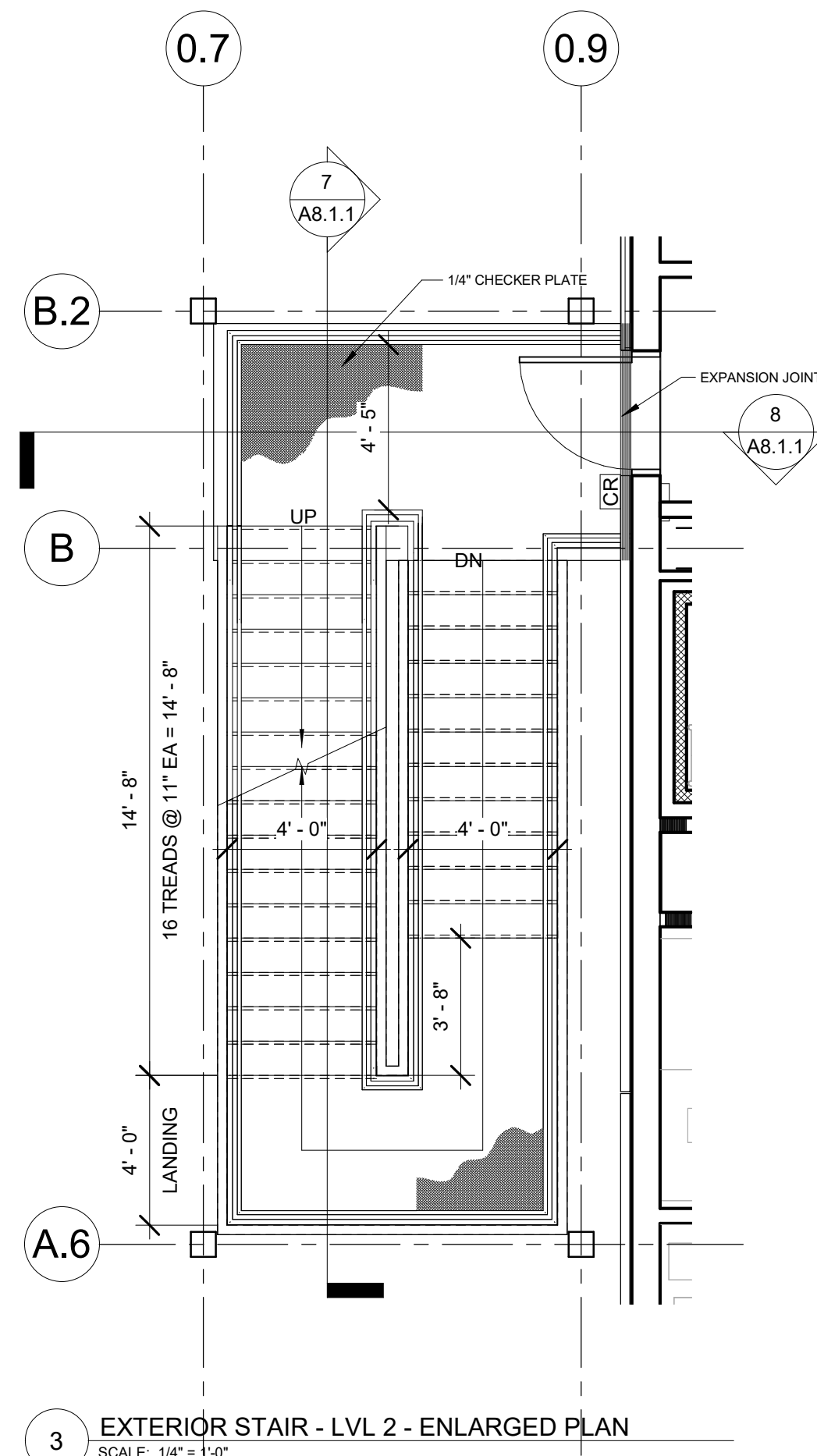
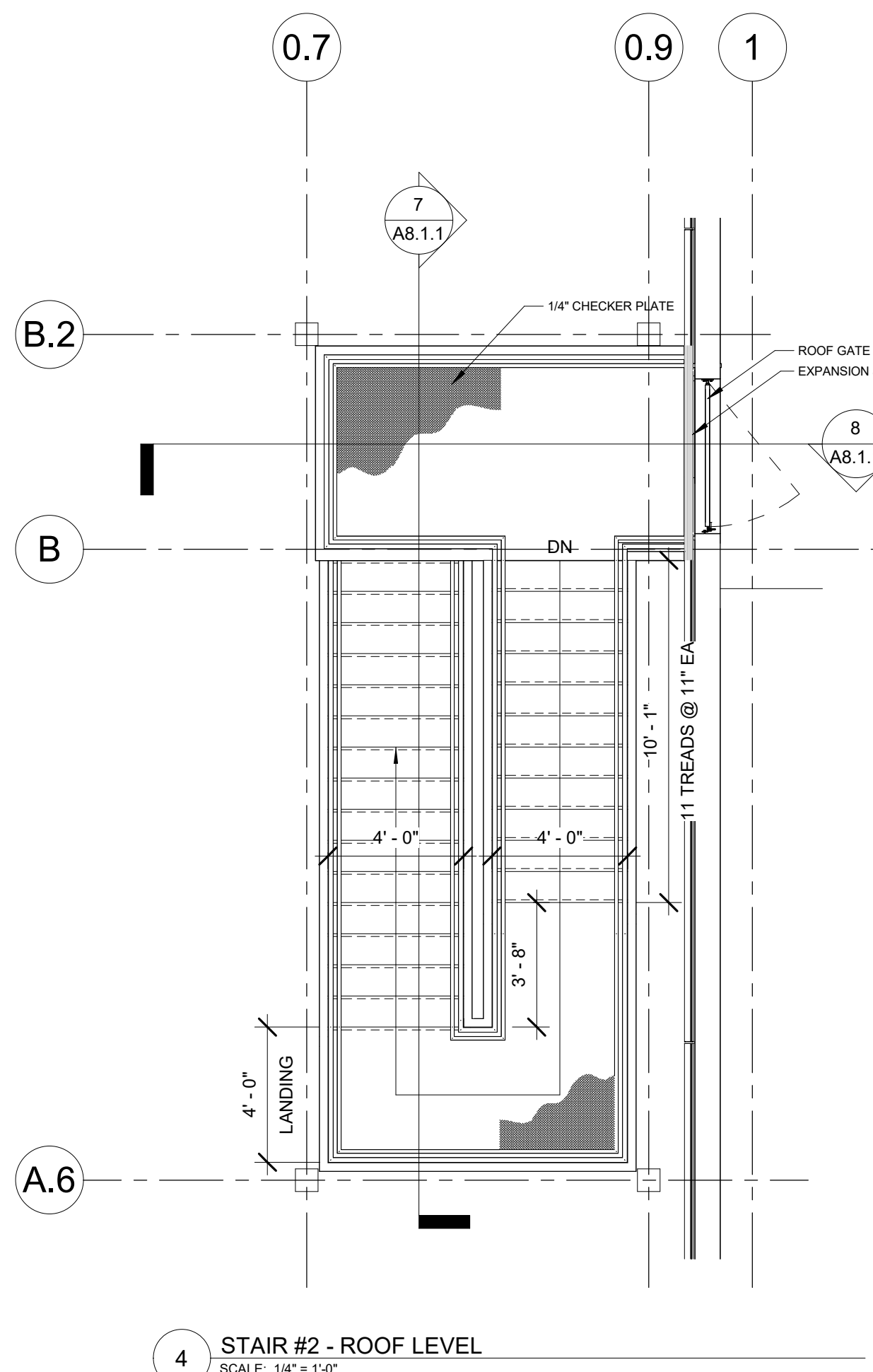
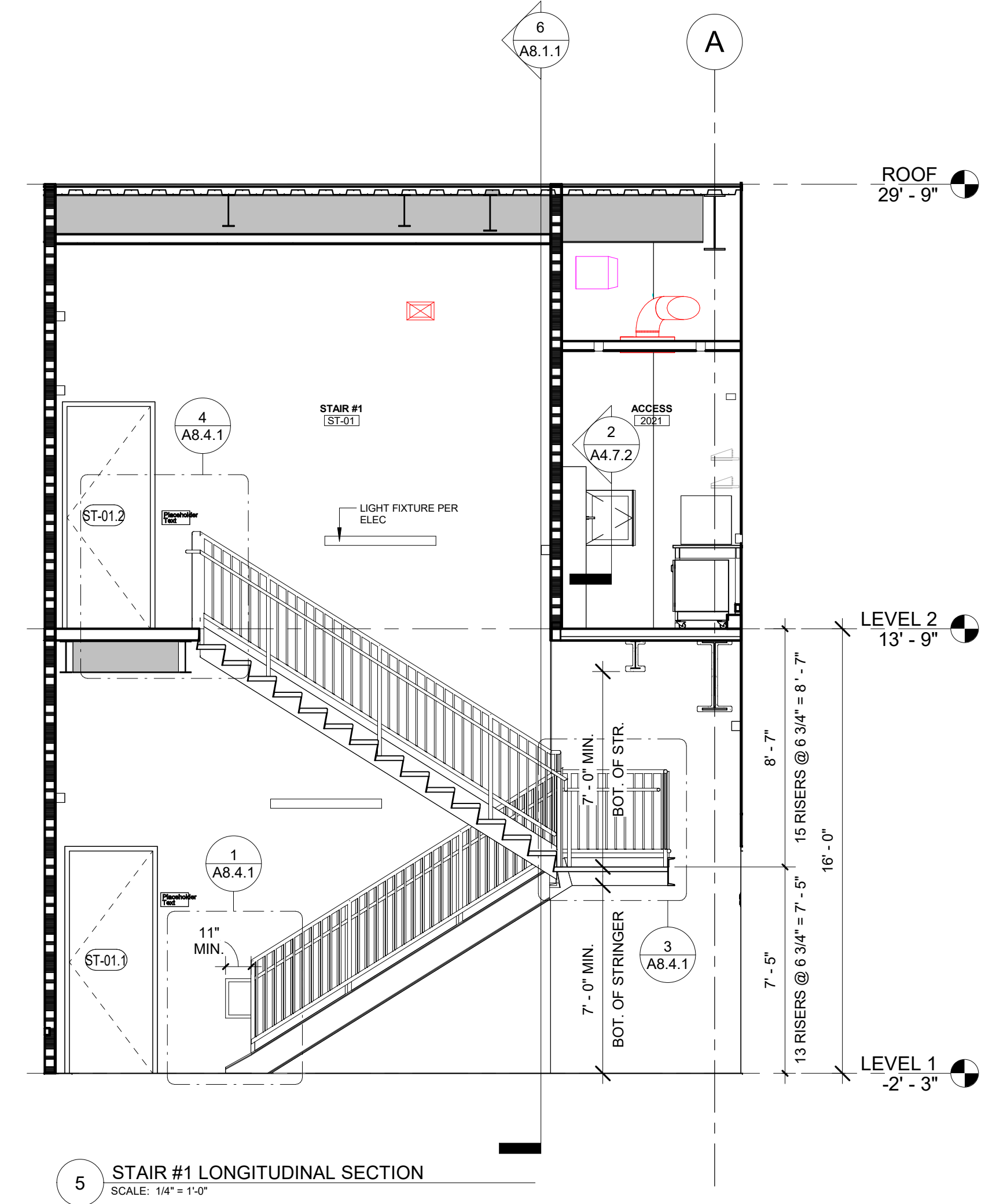
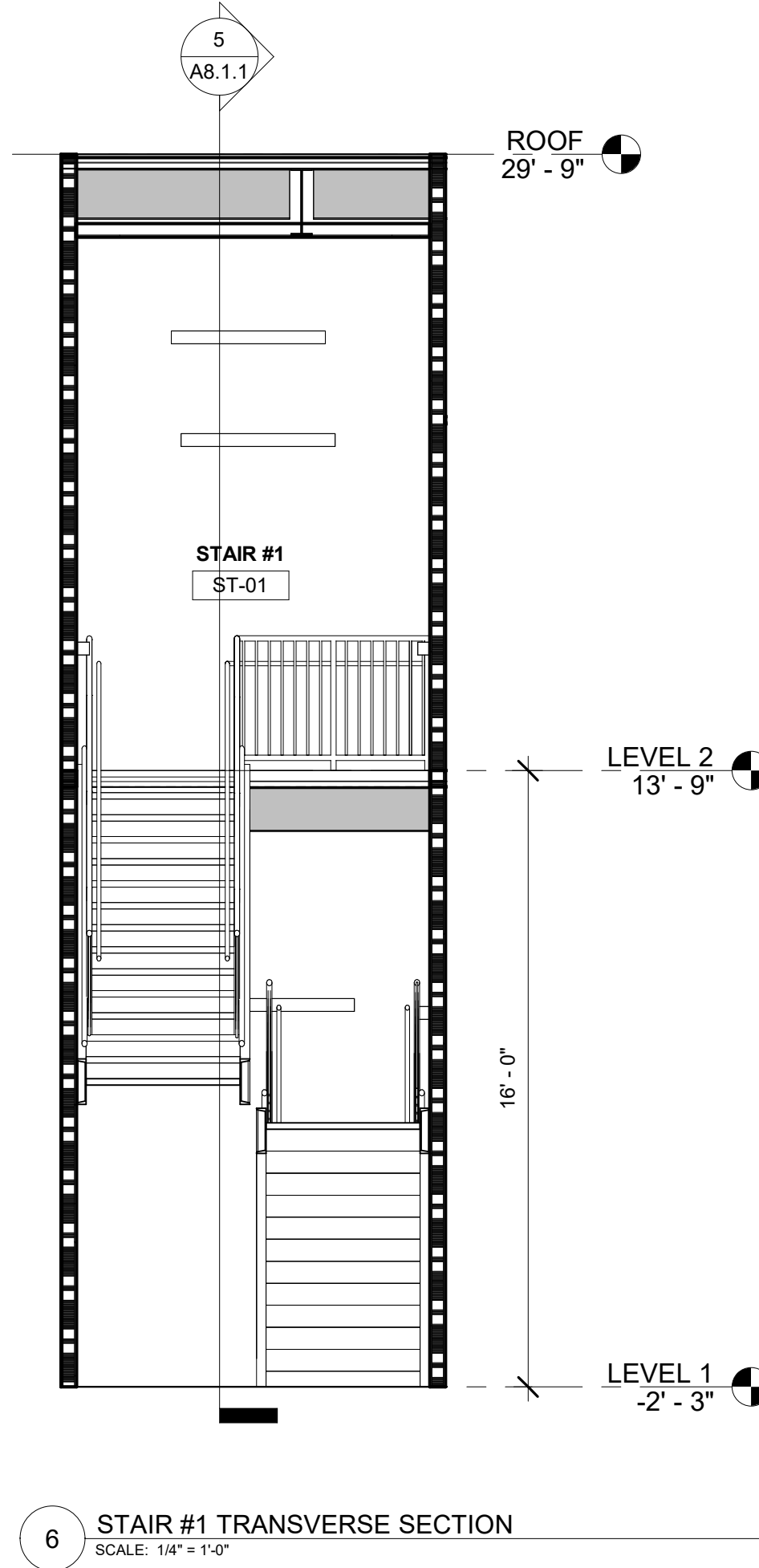
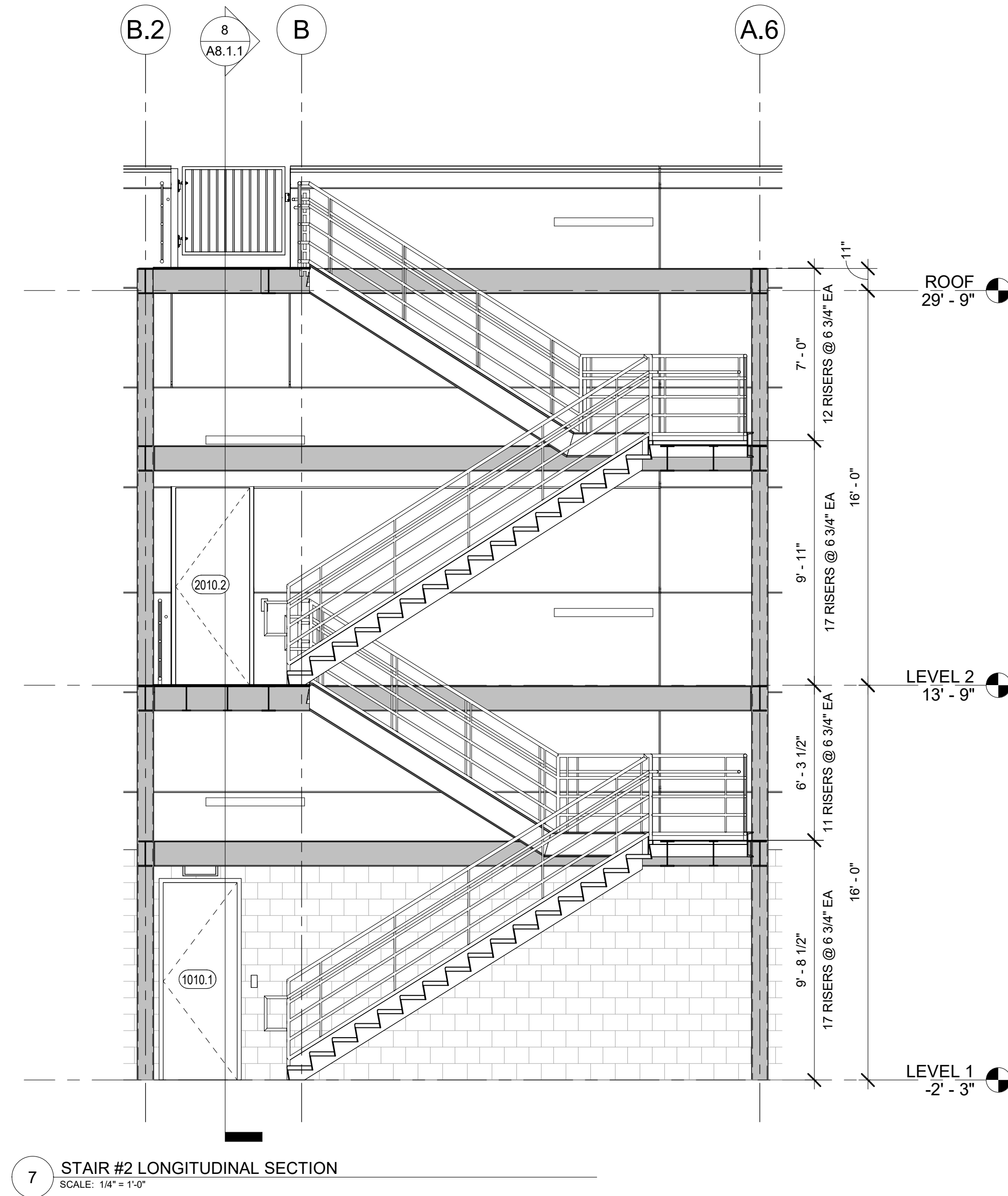
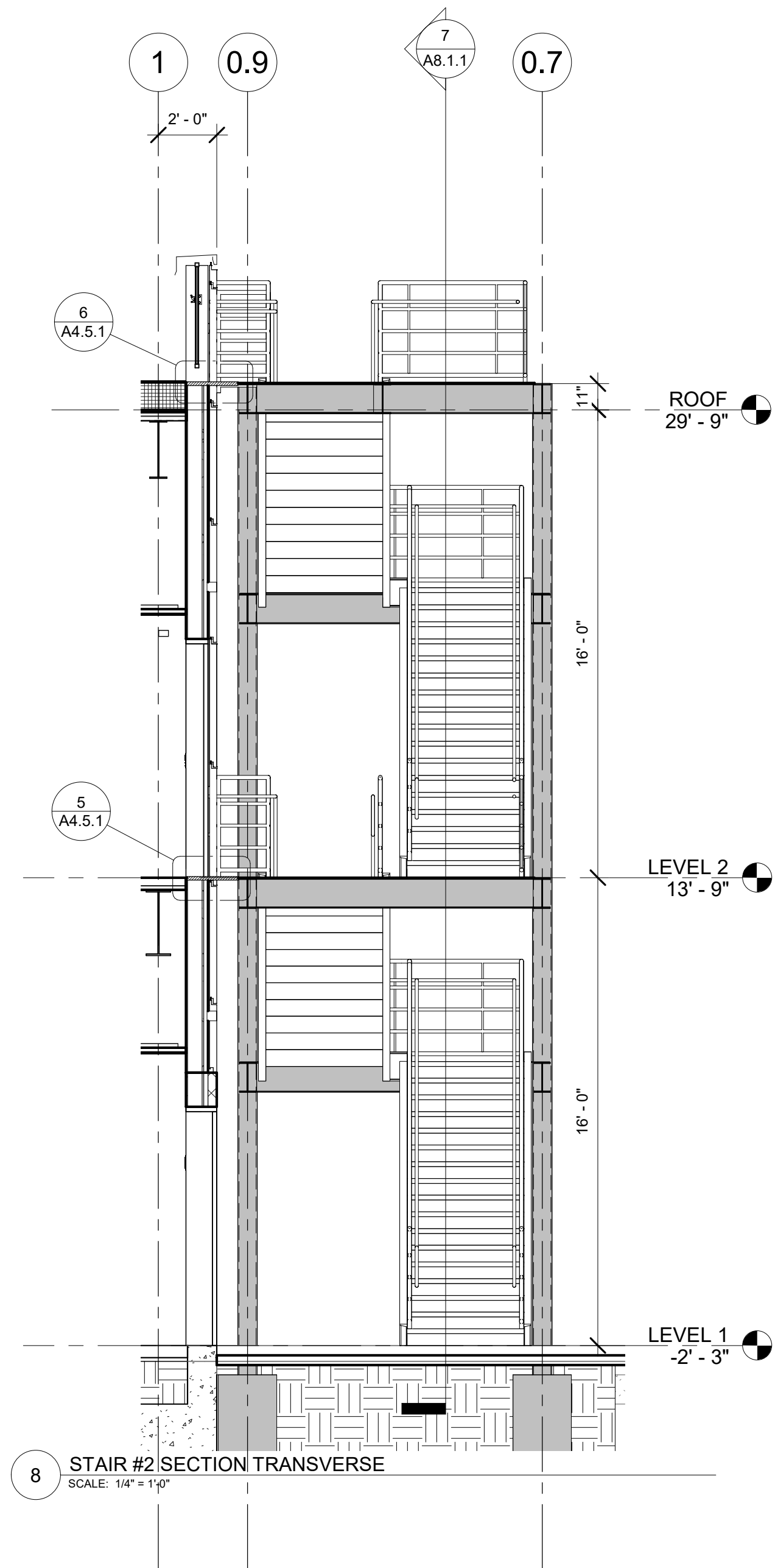
FLOOR/SECTION PHASE DRAWING NO.

NOT FOR CONSTRUCTION

CD A6.1.3



11/8/2024 11:44:39 AM Autodesk Docs://20230523 - South Nevada Health District M.L.K. BLDG - 3 LAB/20230523_A22_CENTRAL.rvt



KEY PLAN

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REVISIONS

NO.	BY	DESCRIPTION	DATE
1		ISSUED FOR GC BIDDING	11.08.2024
2		ISSUED FOR OWNER'S REVIEW	10.11.2024
3		DESIGN DEVELOPMENT	09.26.2024
4		50% DD SET	05.24.2024
5			05.10.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY RM DATE 11.08.2024

PROJECT NO. 20230523 SCALE 1/4" = 1'-0"

DRAWING NAME

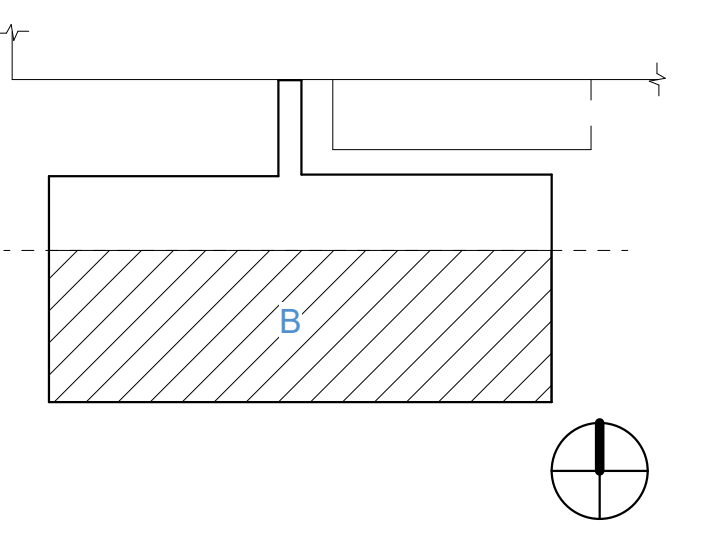
VERTICAL CIRCULATION STAIRS

FLOOR/SECTION PHASE DRAWING NO.

NOT FOR CONSTRUCTION

CD A8.1.1

KEY PLAN



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REVISIONS

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1		ISSUED FOR GC BIDDING	11.08.2024
2			10.11.2024

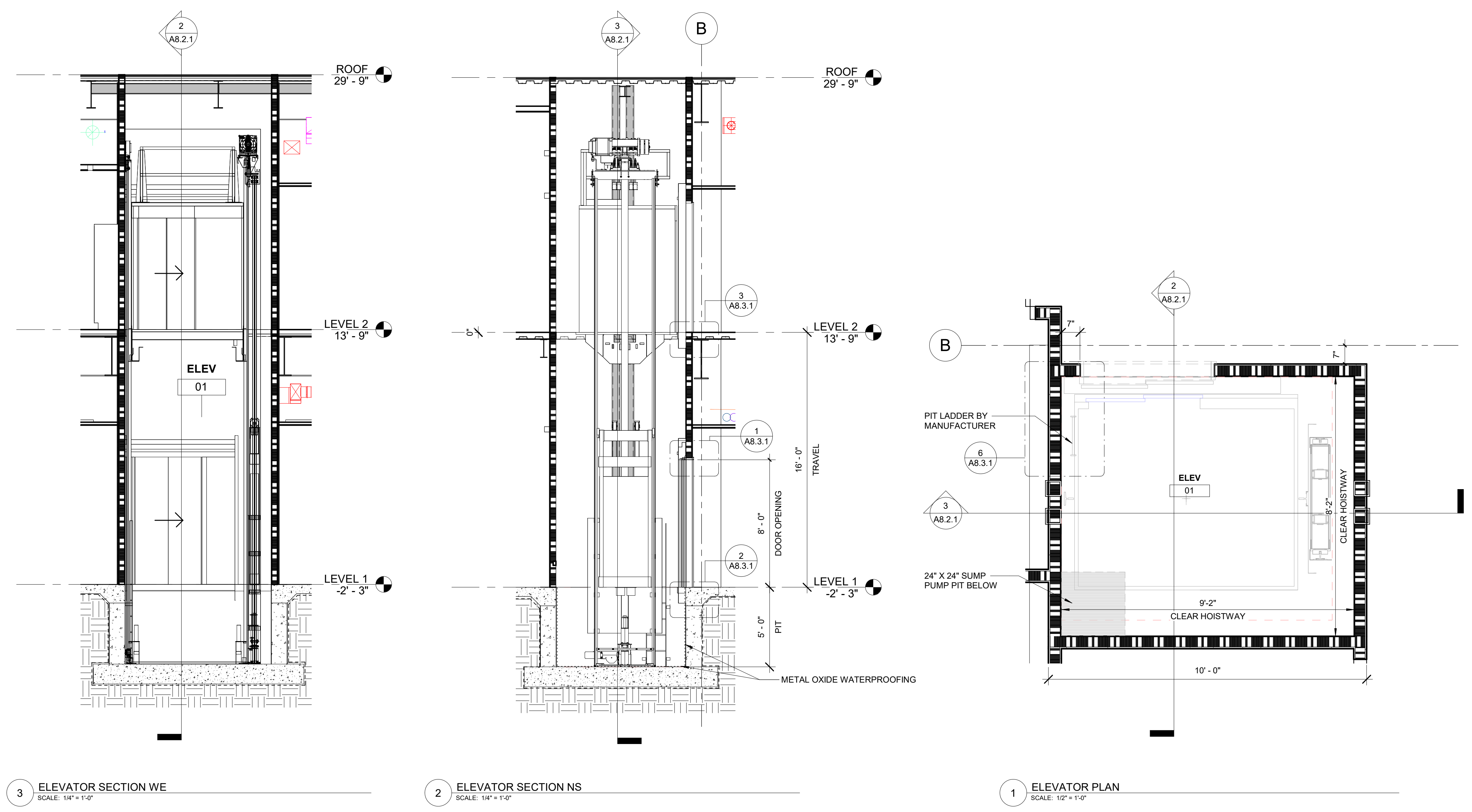
Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY _____ RM DATE 11.08.2024

PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME VERTICAL CIRCULATION ELEVATOR

FLOOR/SECTION PHASE DRAWING NO.



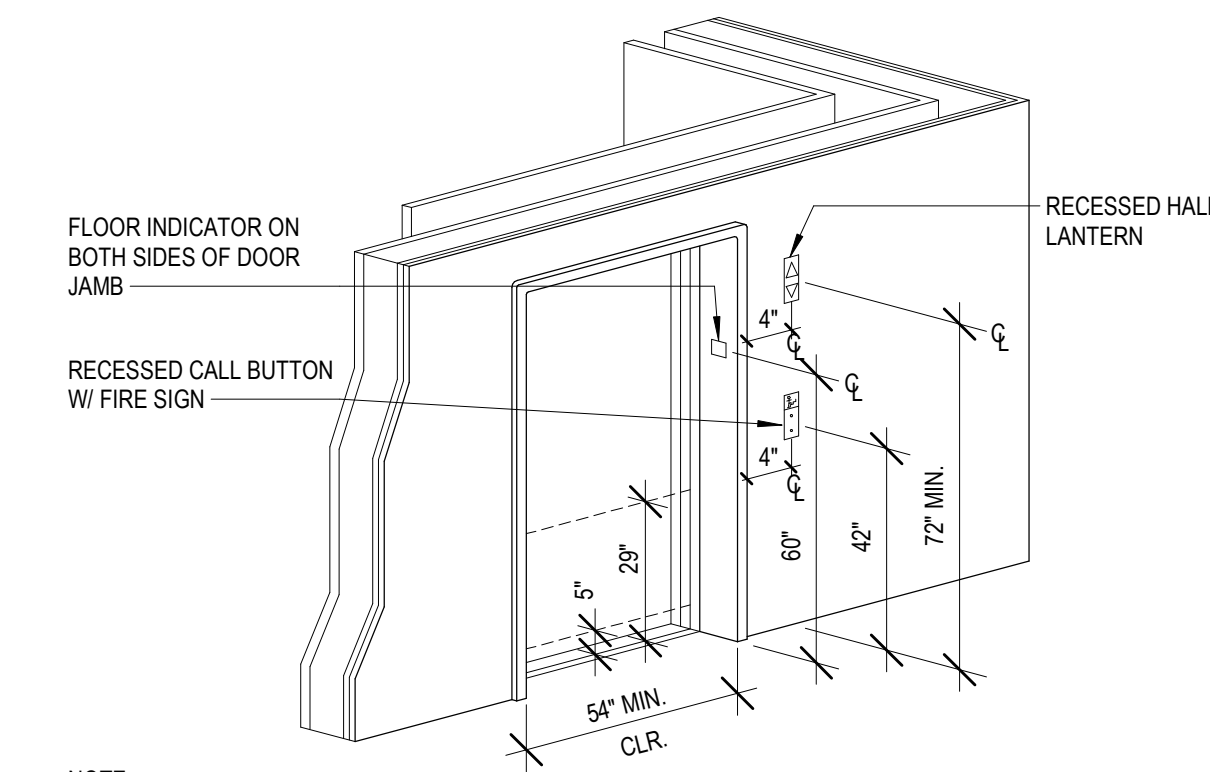
3 ELEVATOR SECTION WE
SCALE: 1/4" = 1'-0"

2 ELEVATOR SECTION NS
SCALE: 1/4" = 1'-0"

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

NOT FOR CONSTRUCTION

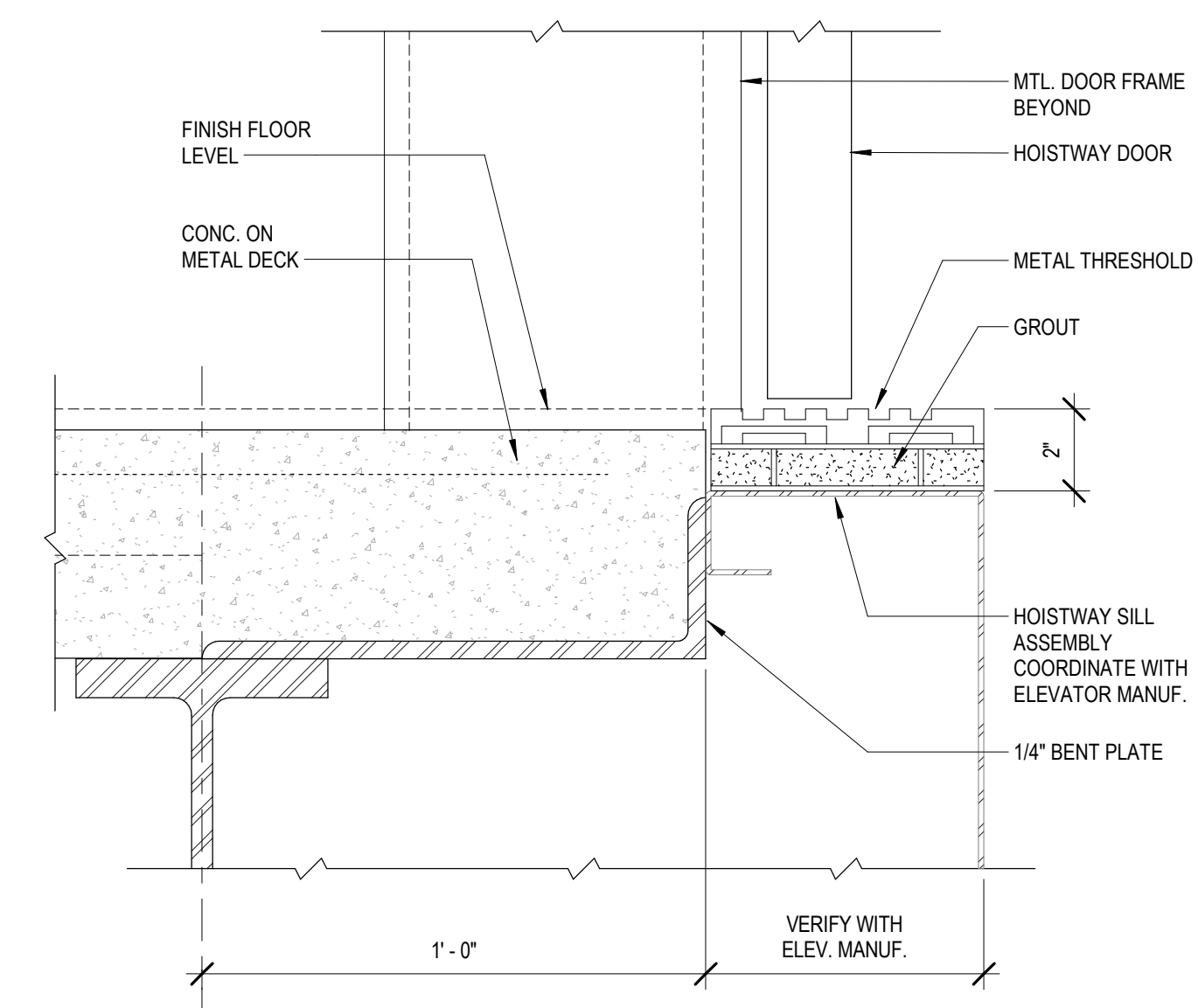
CD A8.2.1



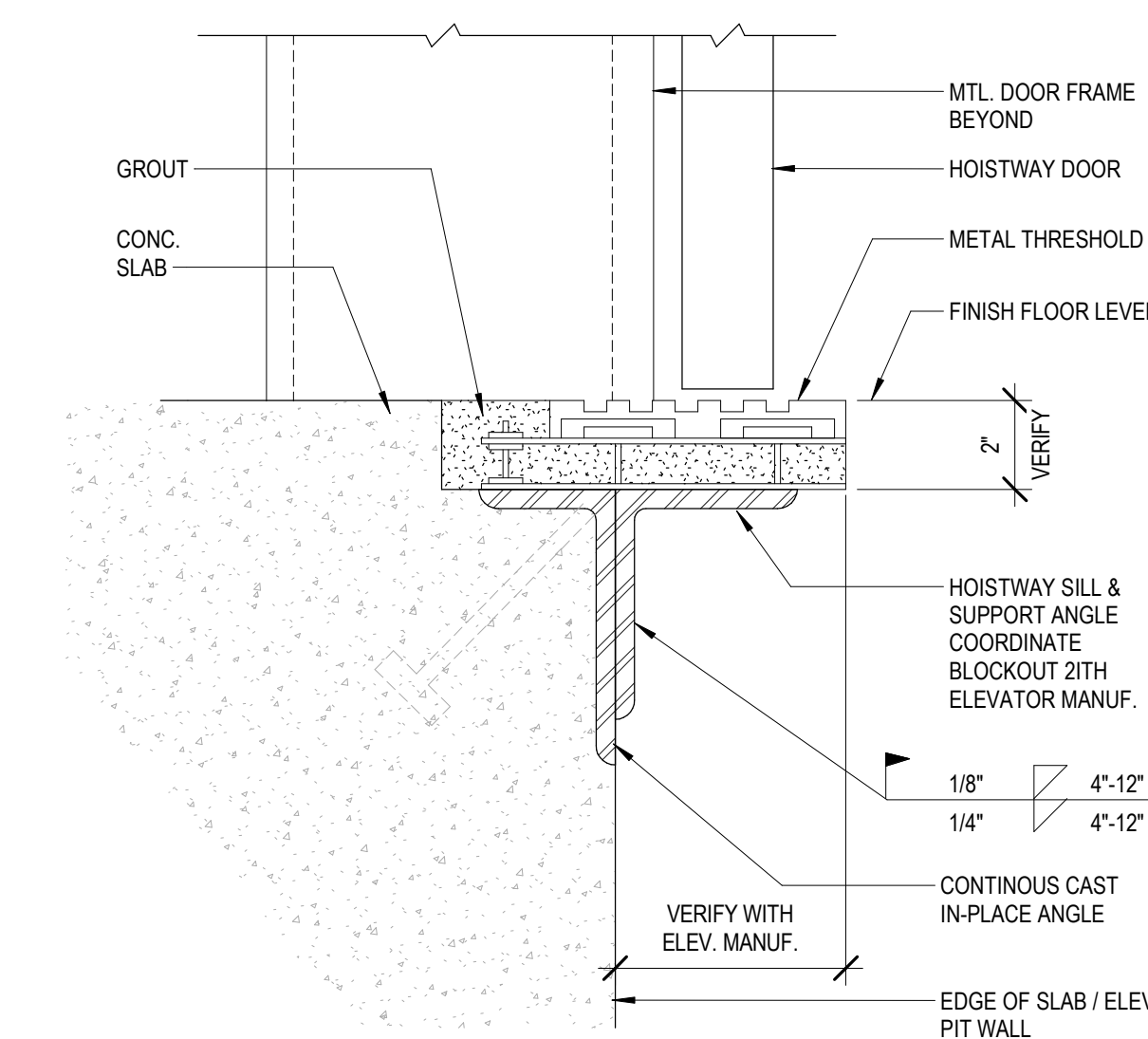
NOTE:
AUTOMATIC DOOR
REOPENING DEVICE @
29\"/>

ELEVATOR

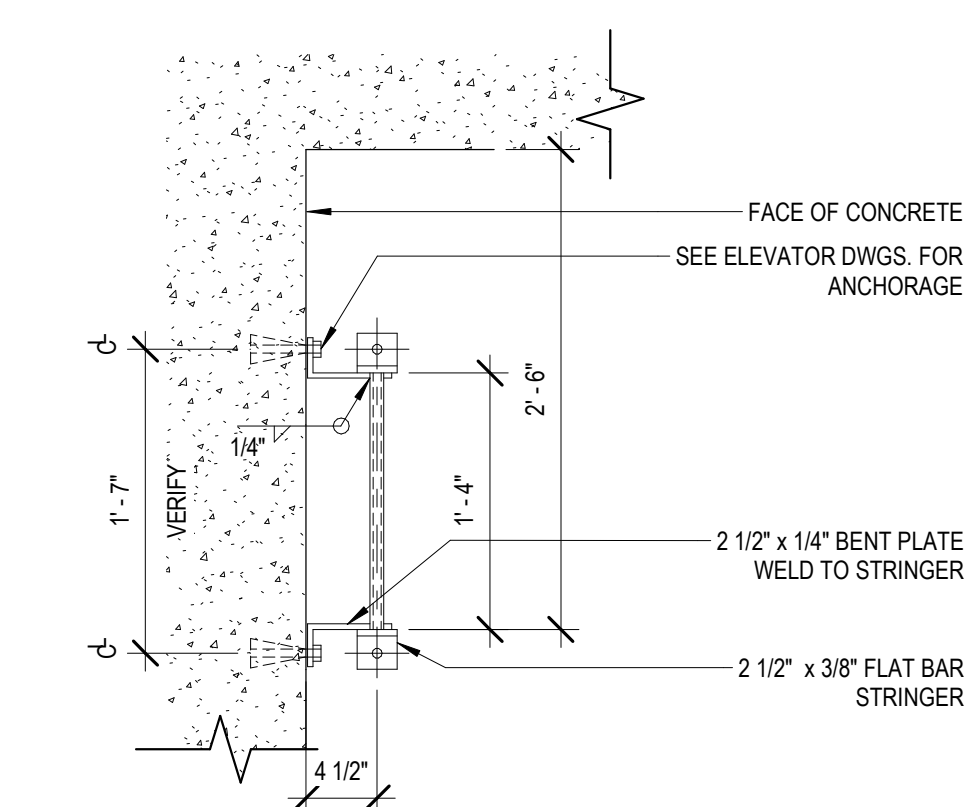
4 ELEVATOR DOOR
SCALE: 1/4\"/>



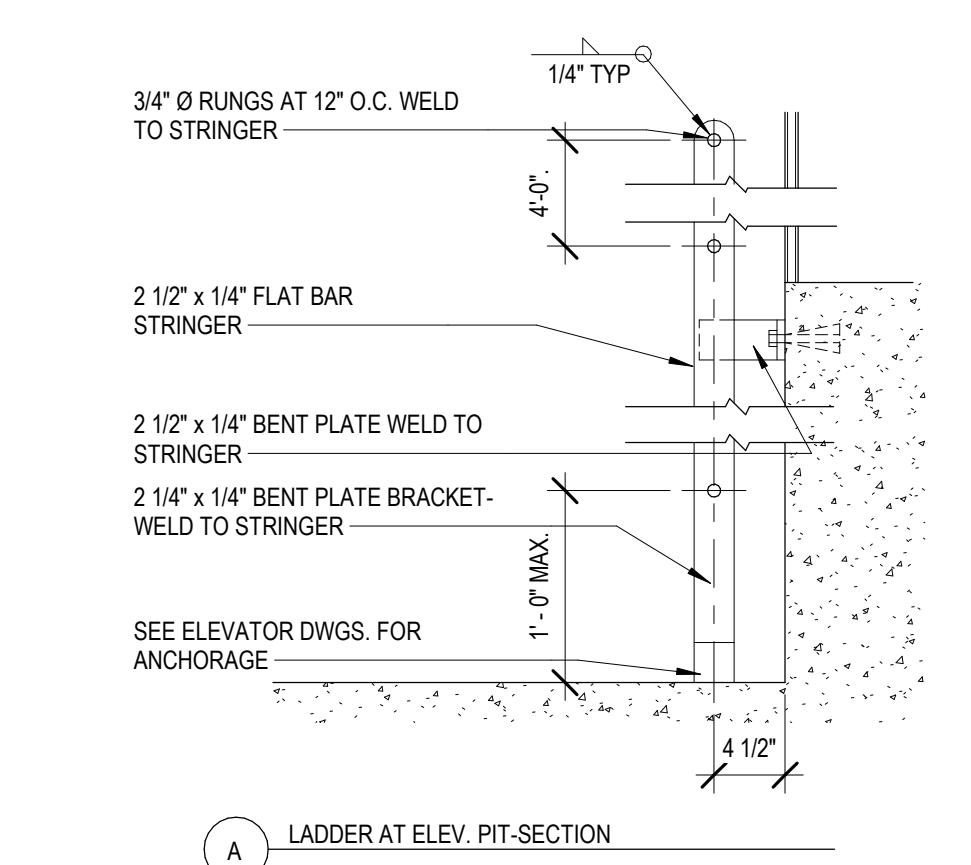
3 ELEV. DOOR AT CONCRETE FILLED METAL DECK
SCALE: 3\"/>



2 ELEVATOR DOOR SILL AT CONCRETE SLAB
SCALE: 3\"/>

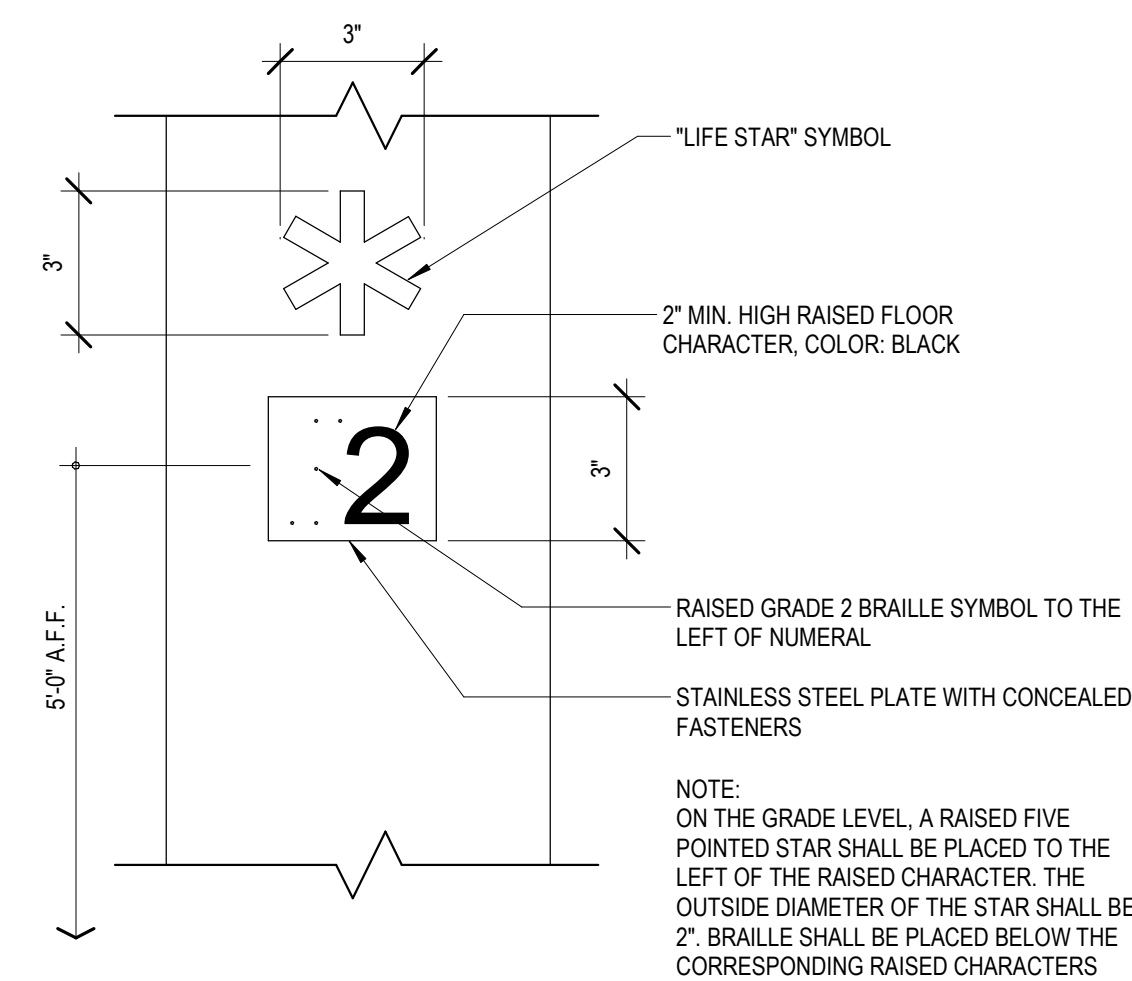


B LADDER AT ELEV. PIT-PLAN

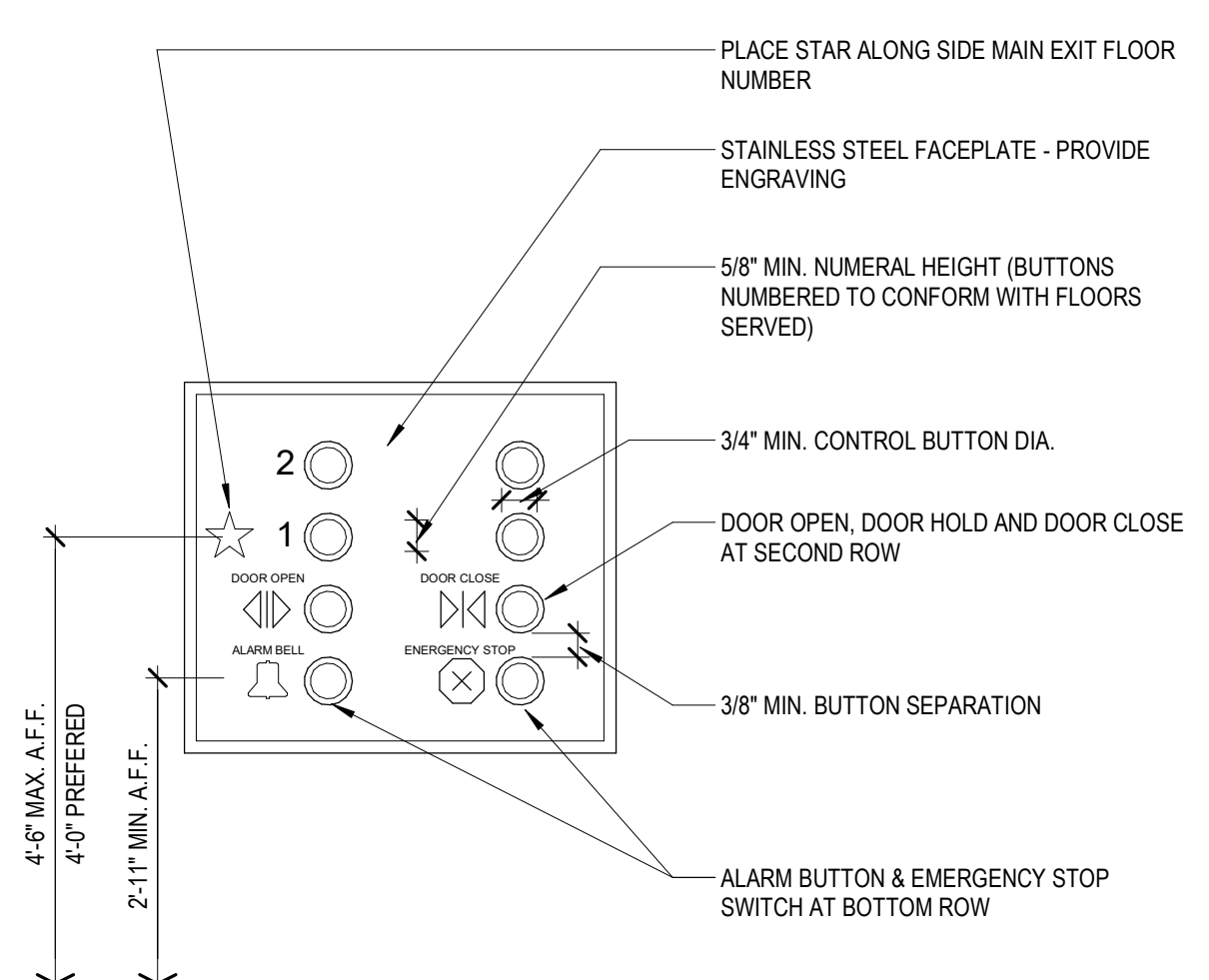


A LADDER AT ELEV. PIT-SECTION

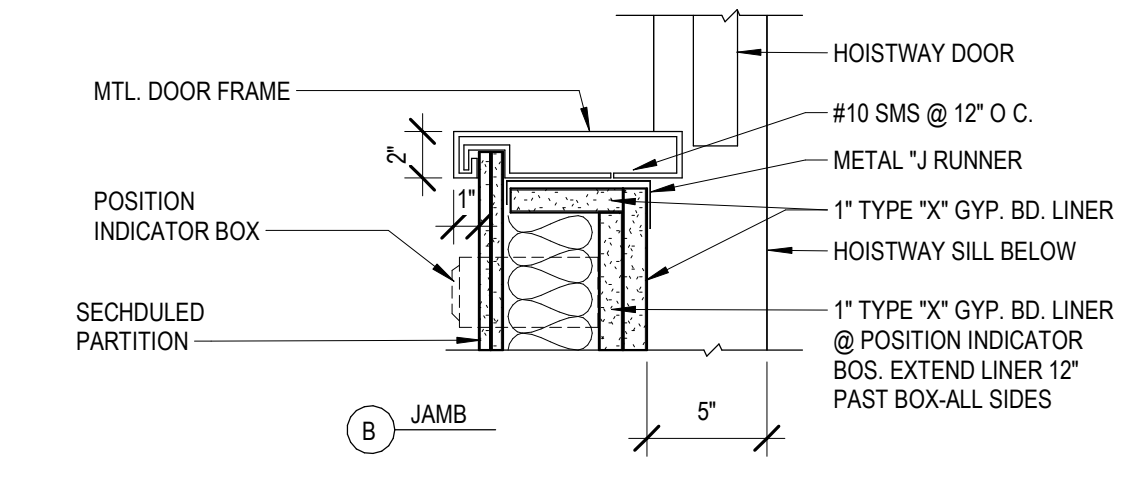
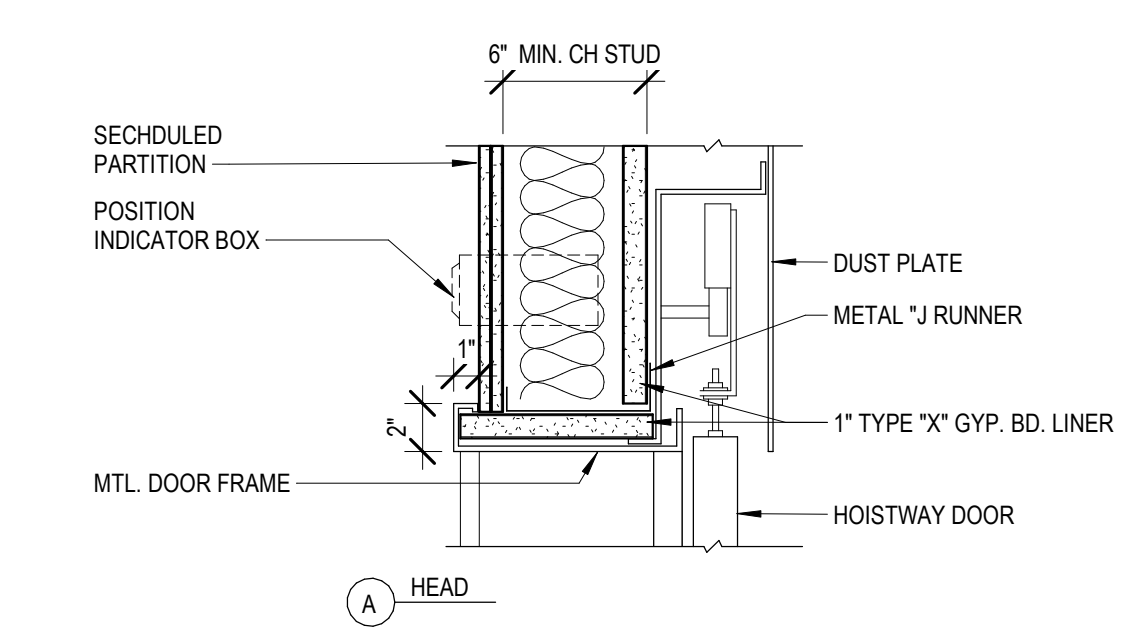
6 LADDER AT ELEV. PIT-SECTION
SCALE: 1\"/>



8 FLOOR INDICATOR DOOR JAMB MARKING
SCALE: 3\"/>



5 ELEVATOR CAB CONTROL
SCALE: 3\"/>



1 ELEVATOR DOOR HEAD AND JAMB
SCALE: 1\"/>

KEY PLAN

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STEPH VARGAS
ARCHITECT
ROBERT MCCONNELL
ARCHITECTURAL DESIGNER
RICARDO MOLINA

REVISIONS

E	D	NO.	BY	DESCRIPTION	DATE
				ISSUED FOR GC BIDDING	11.08.2024
					10.11.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY: RM DATE: 11.08.2024

PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME

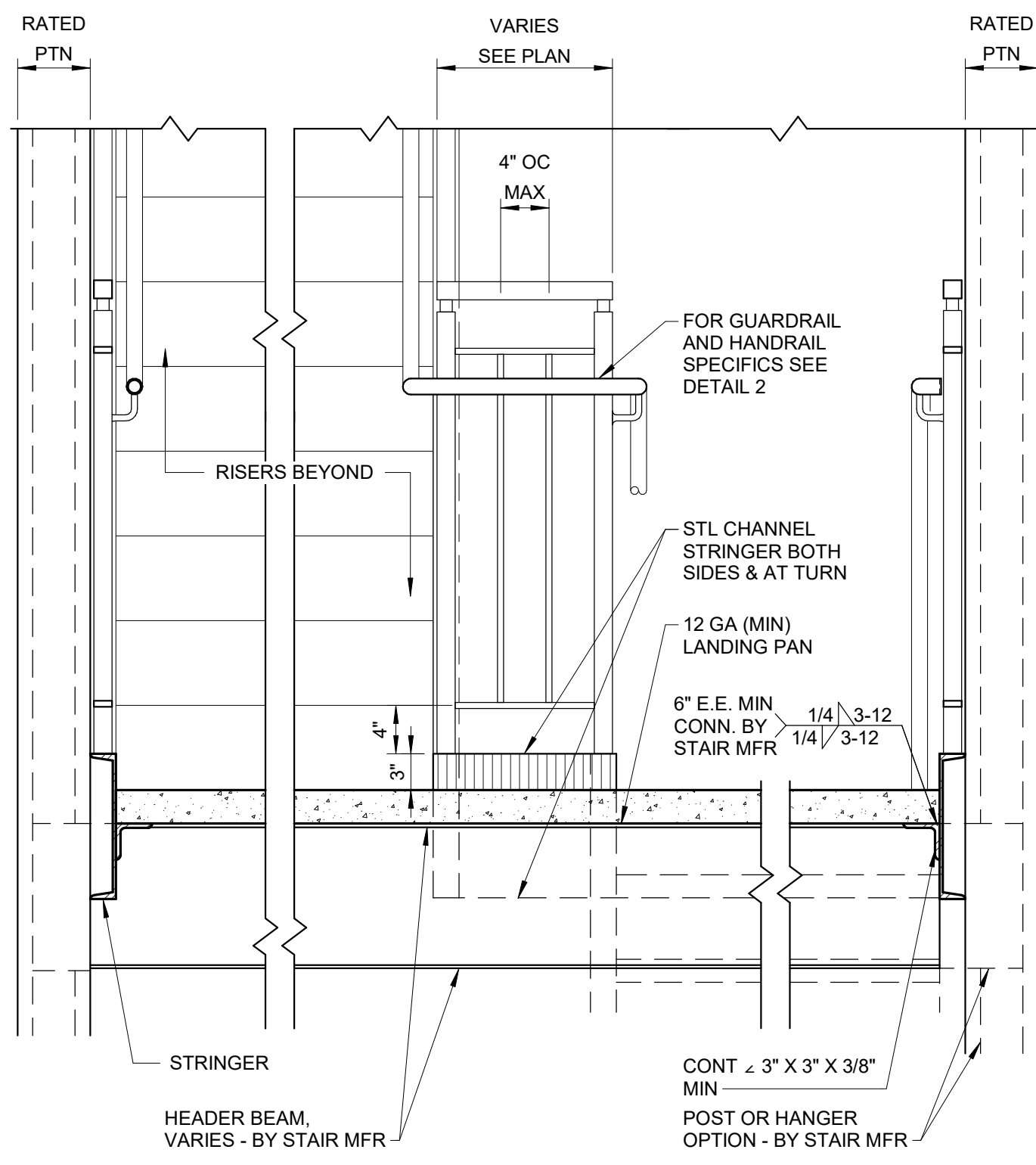
ELEVATOR DETAILS

FLOOR/SECTION PHASE DRAWING NO.

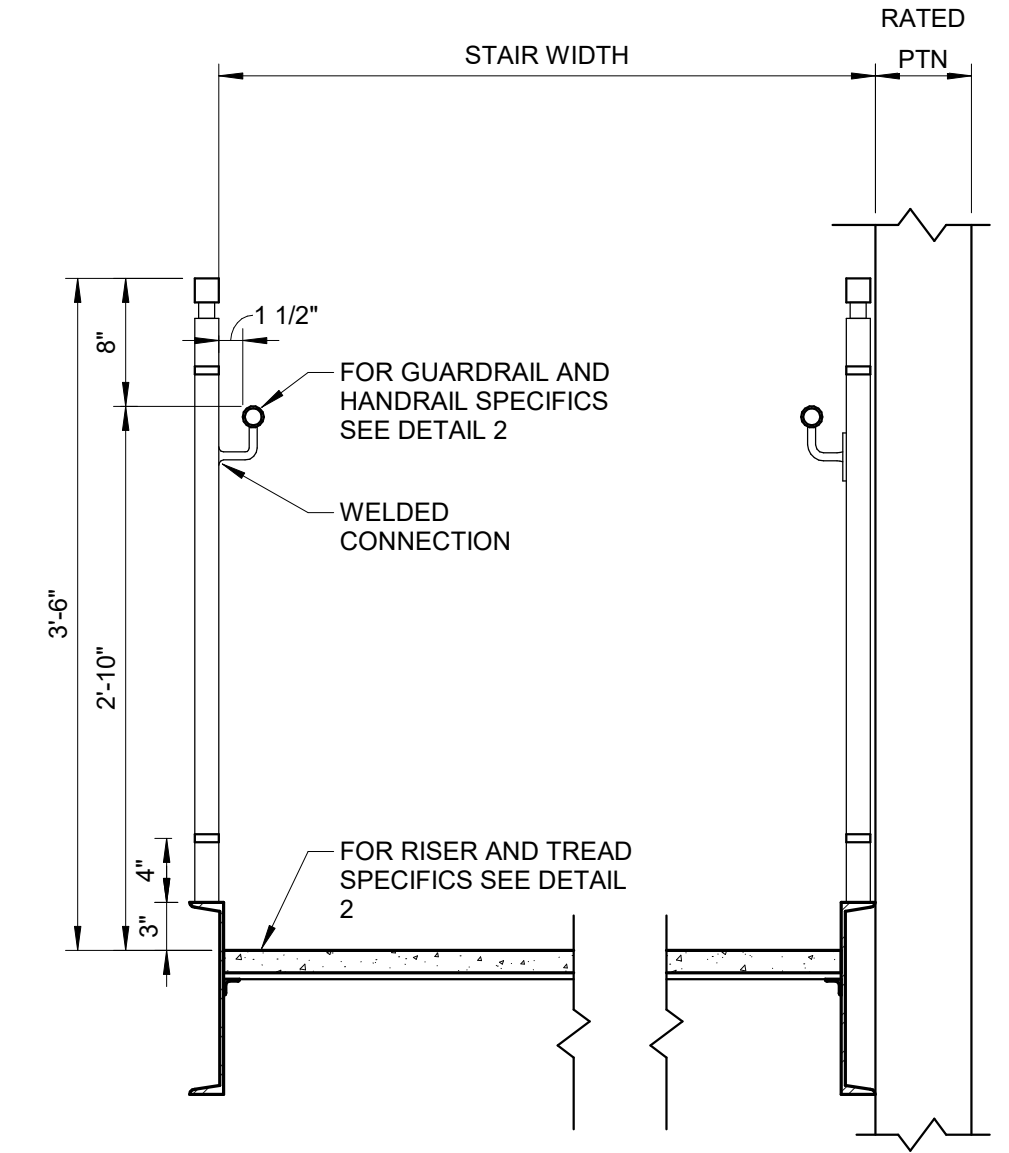
NOT FOR CONSTRUCTION

CD

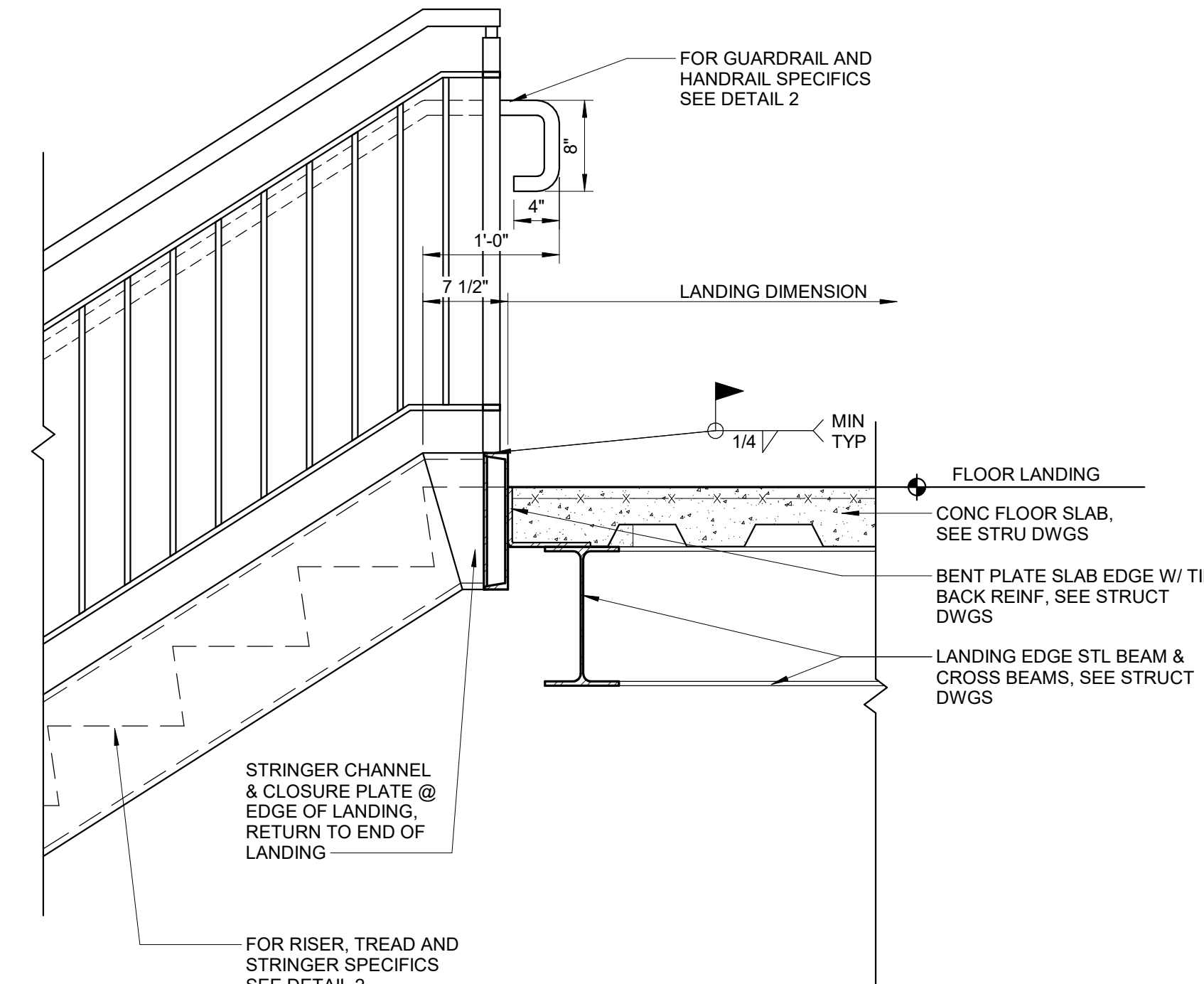
A8.3.1



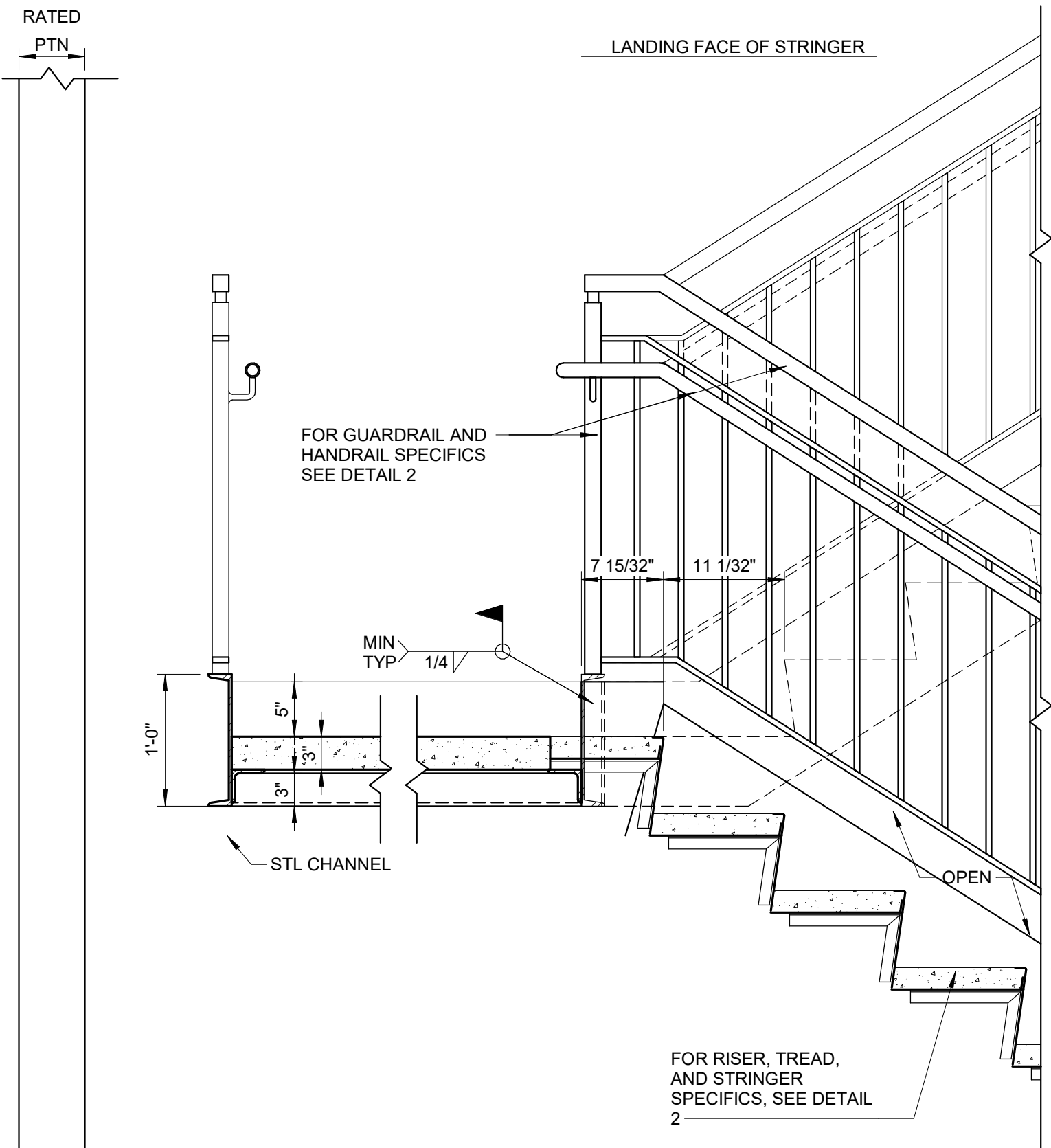
6 STAIR @ INTERMEDIATE LANDING
SCALE: 1" = 1'-0"



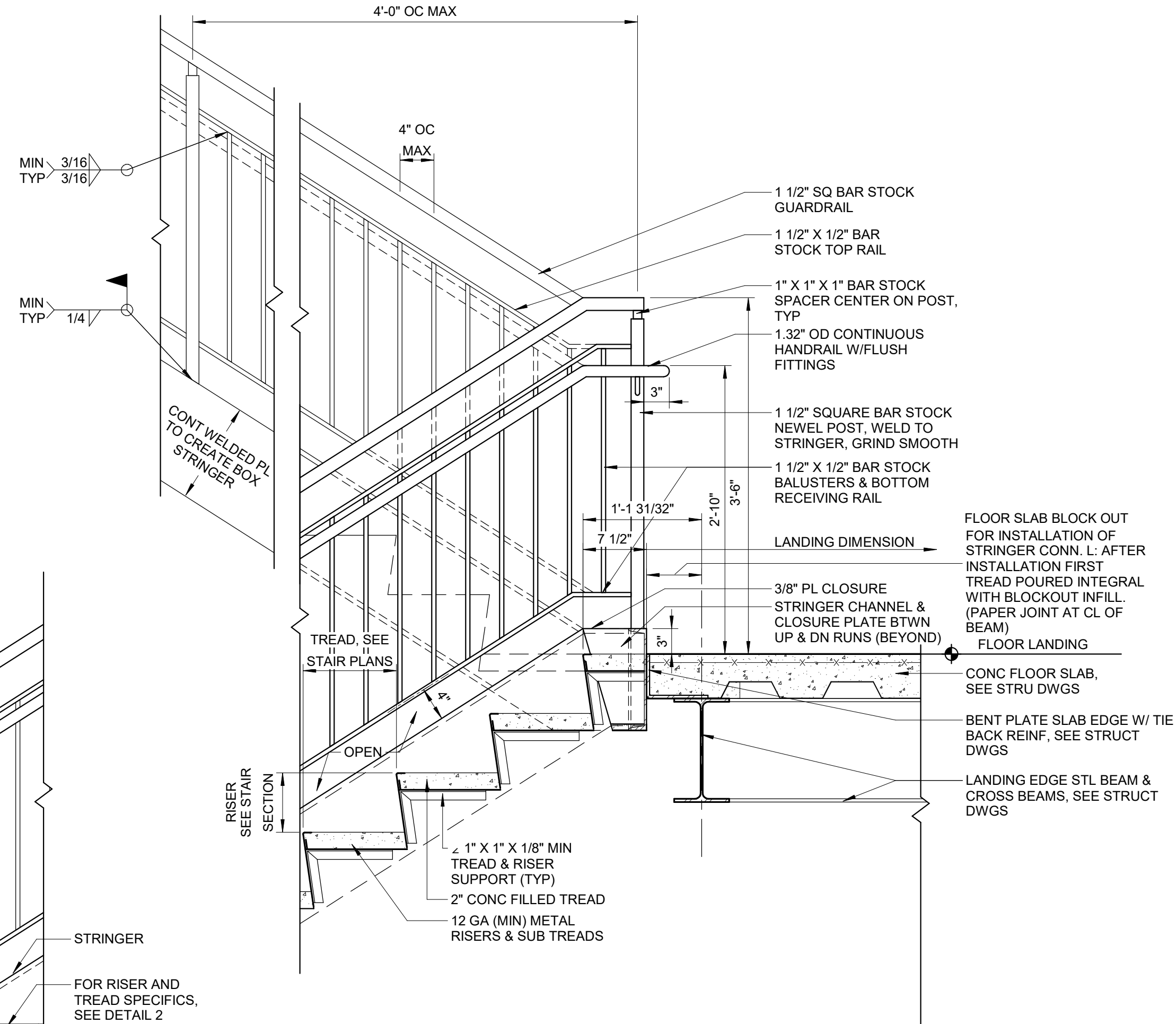
5 STAIR - CROSS SECTION
SCALE: 1" = 1'-0"



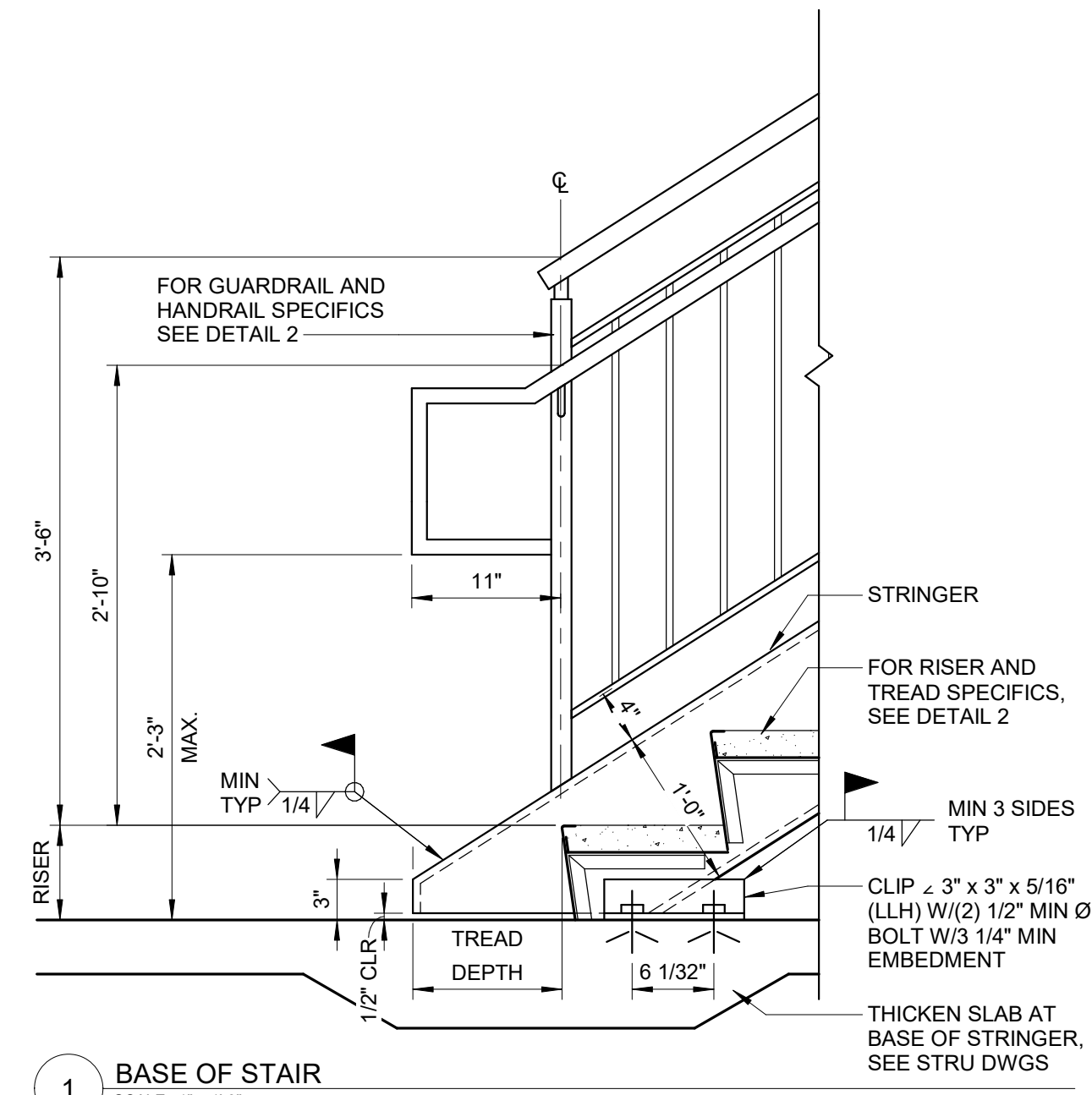
4 STAIR - TOP FLOOR LANDING
SCALE: 1" = 1'-0"



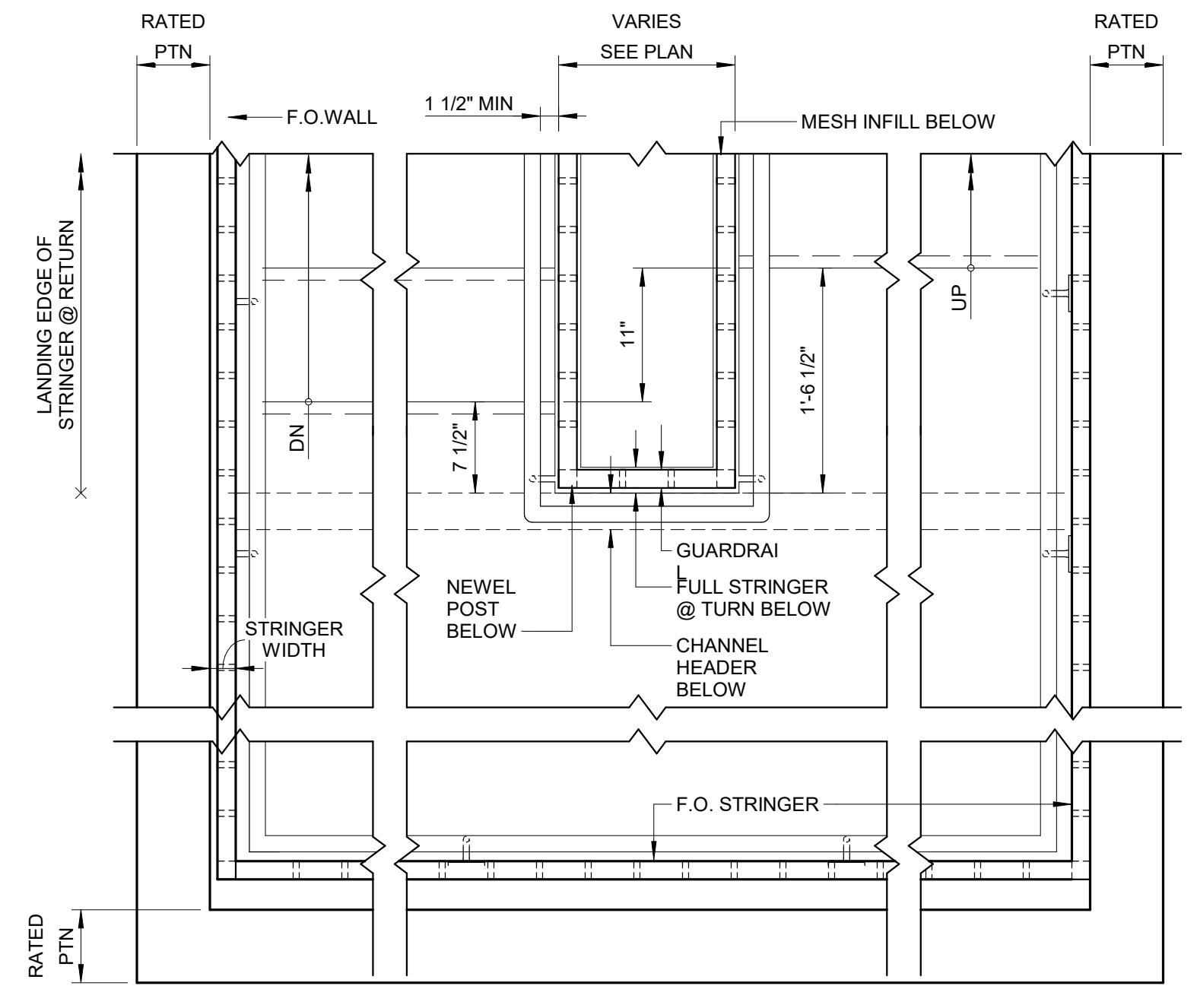
3 STAIR - INTERMEDIATE LANDING
SCALE: 1" = 1'-0"



2 STAIR - LANDING AT FLOOR SLAB EDGE
SCALE: 1" = 1'-0"



1 BASE OF STAIR
SCALE: 1" = 1'-0"



7 PLAN - INTERMEDIATE LANDING
SCALE: 1" = 1'-0"

KEY PLAN

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RESEARCH PLANNER
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ARCHITECT
ROBERT MCCONNELL
ARCHITECTURAL DESIGNER
RICARDO MOLINA

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D		ISSUED FOR OWNER'S REVIEW	10.11.2024
C		DESIGN DEVELOPMENT	09.26.2024
B		50% DD SET	05.24.2024
A			05.10.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY RM DATE 11.08.2024

PROJECT NO. 20230523 SCALE 1" = 1'-0"

DRAWING NAME STAIR#1 DETAILS

FLOOR/SECTION PHASE DRAWING NO.

NOT FOR CONSTRUCTION

CD A8.4.1

KEY PLAN

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RICARDO MOLINA

REVISIONS

NO.	BY	DESCRIPTION	DATE
1		ISSUED FOR GC BIDDING	11.08.2024
2			10.11.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY _____ RM DATE 11.08.2024

PROJECT NO. 20230523 SCALE 1" = 1'-0"

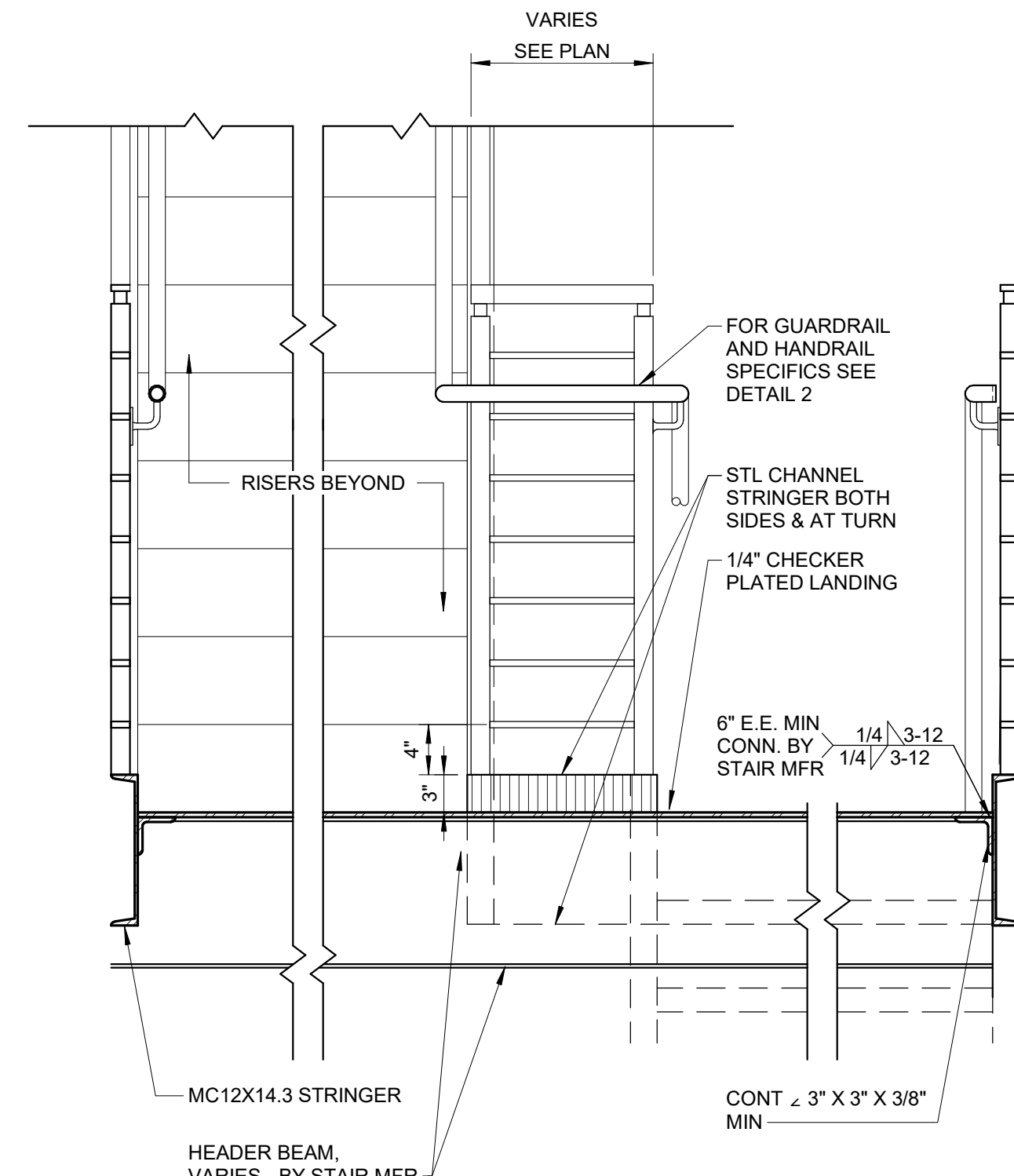
DRAWING NAME

STAIR #2 DETAILS

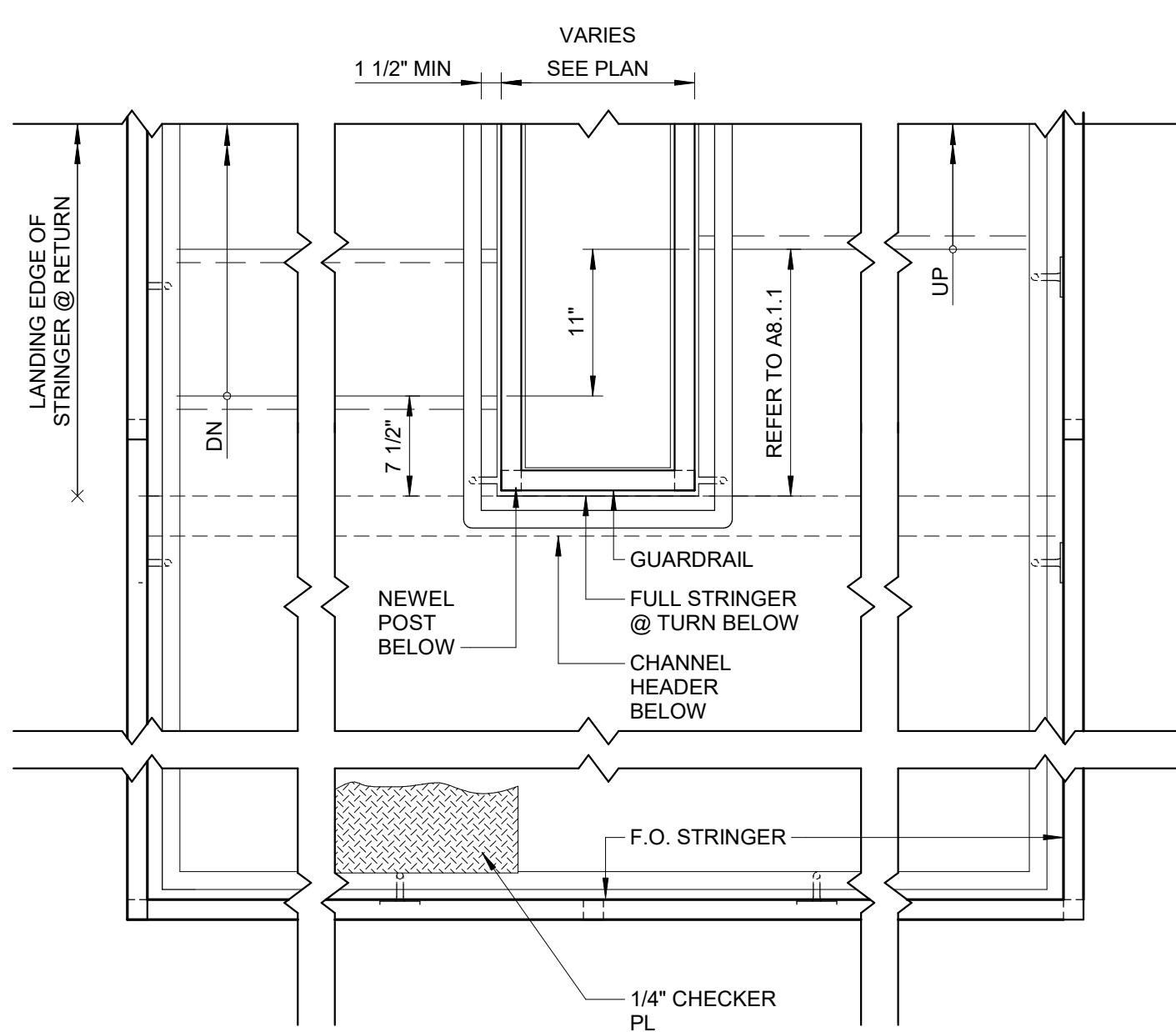
FLOOR/SECTION PHASE DRAWING NO.

NOT FOR CONSTRUCTION

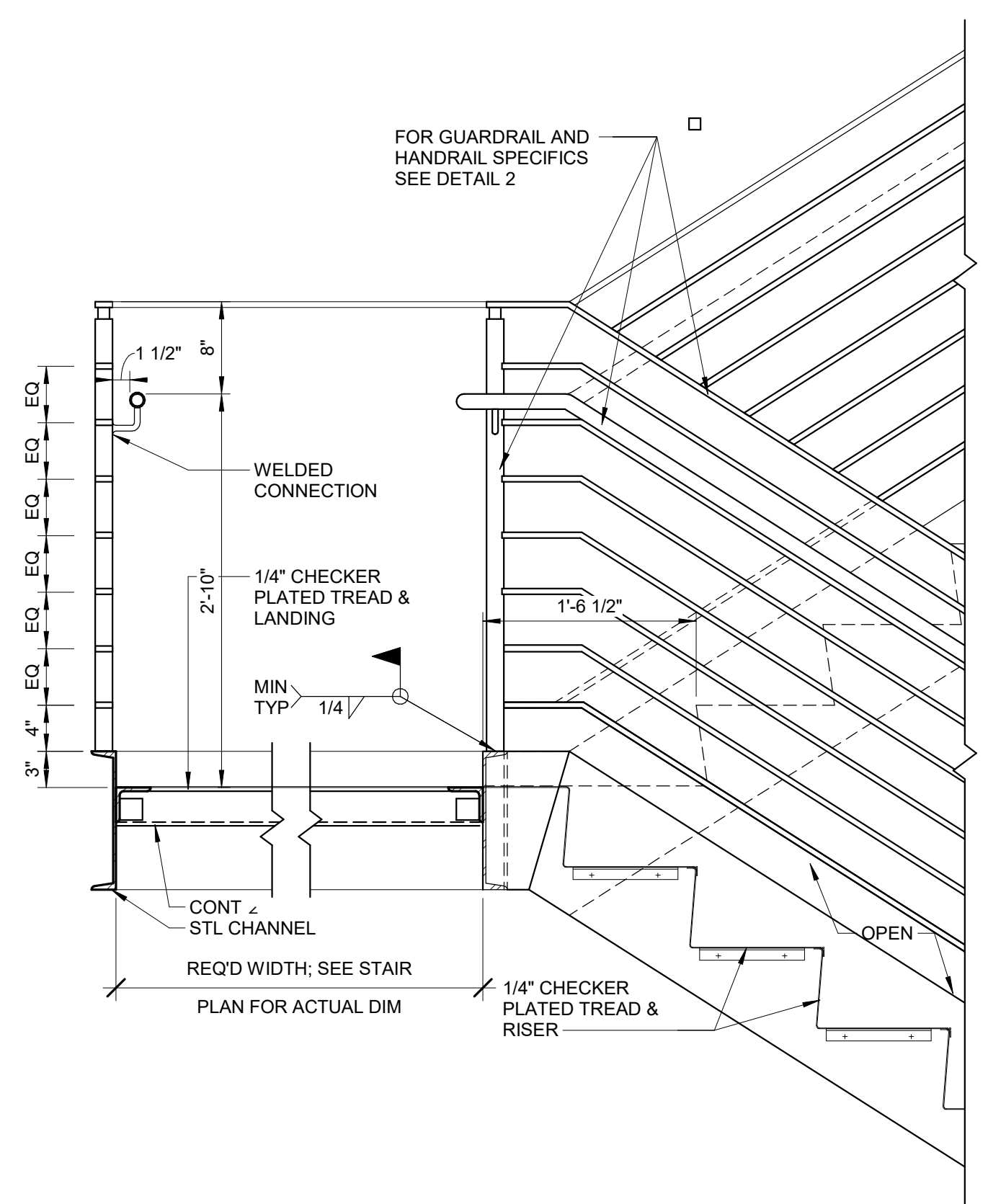
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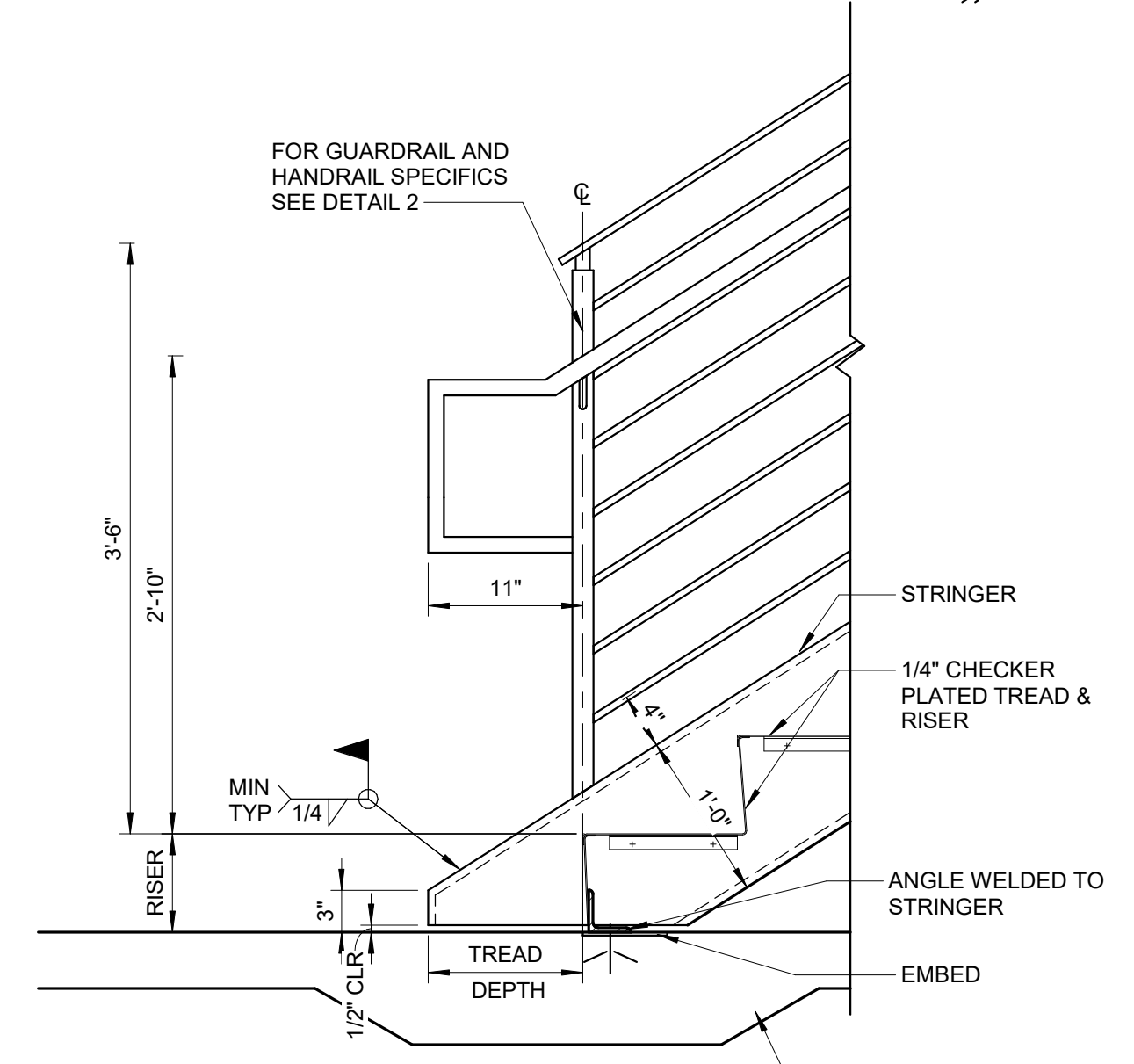
6 STAIR @ INTERMEDIATE LANDING
SCALE: 1" = 1'-0"



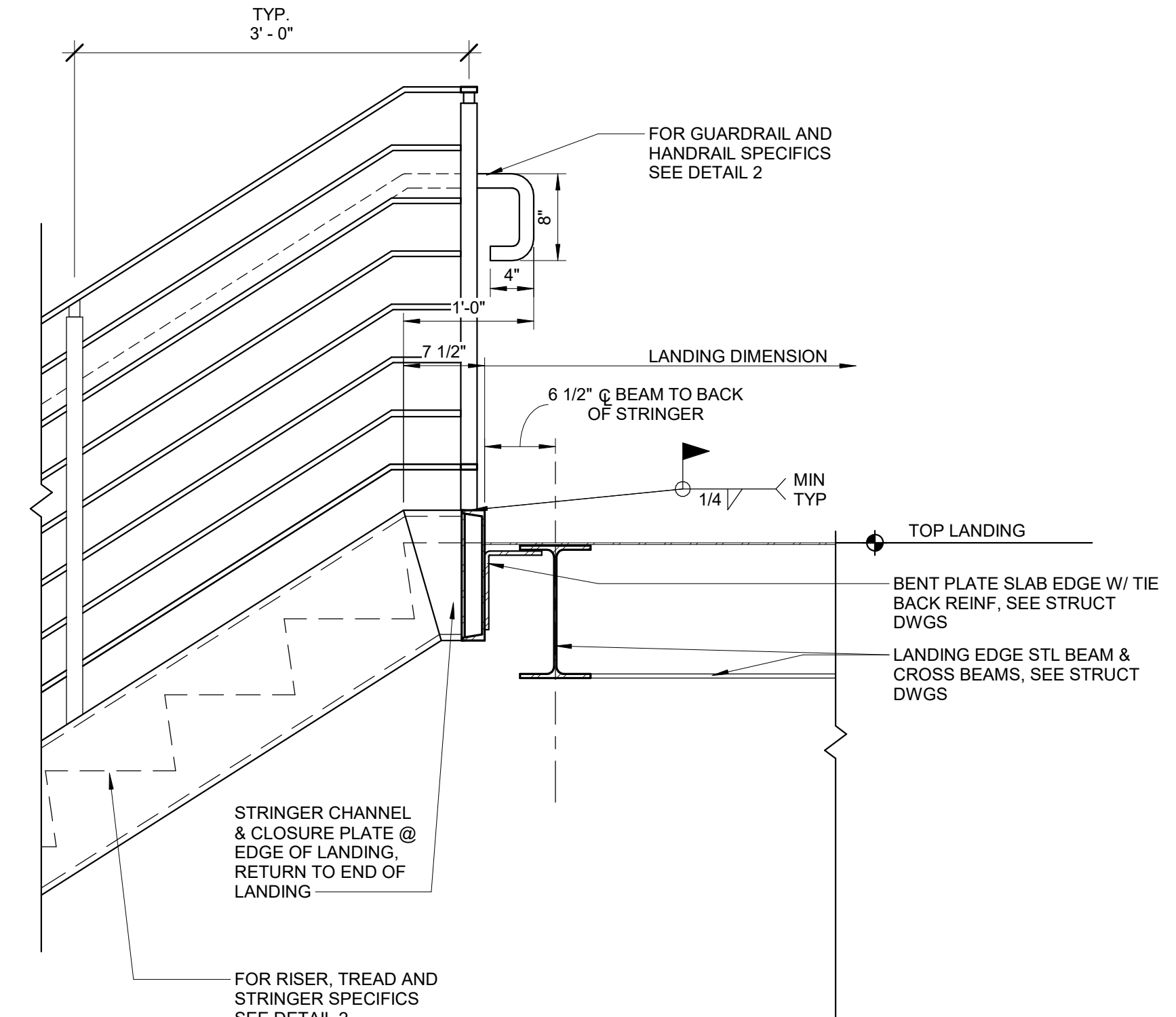
5 PLAN - INTERMEDIATE LANDING
SCALE: 1" = 1'-0"



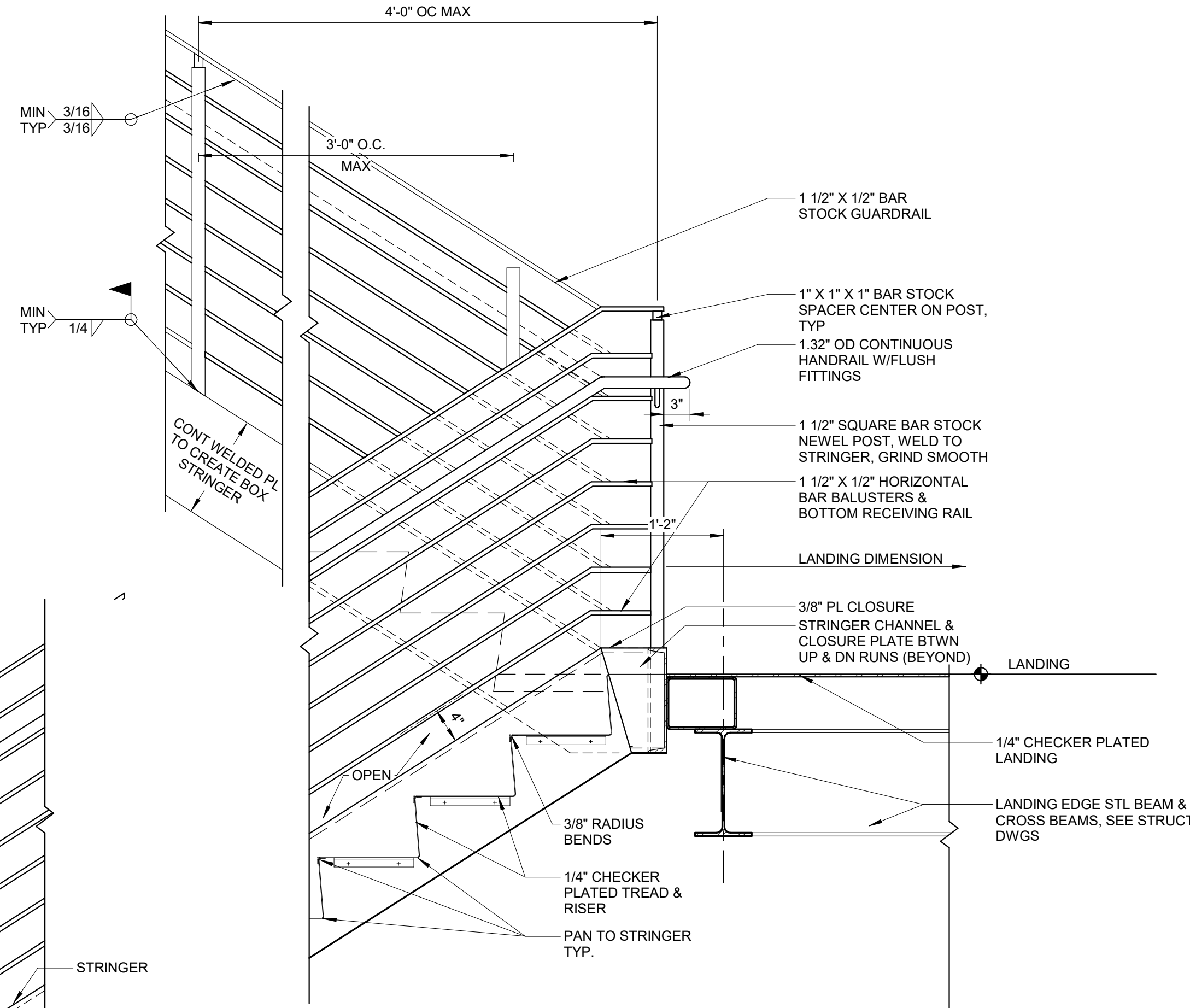
3 STAIR - INTERMEDIATE LANDING
SCALE: 1" = 1'-0"



1 BASE OF STAIR
SCALE: 1" = 1'-0"

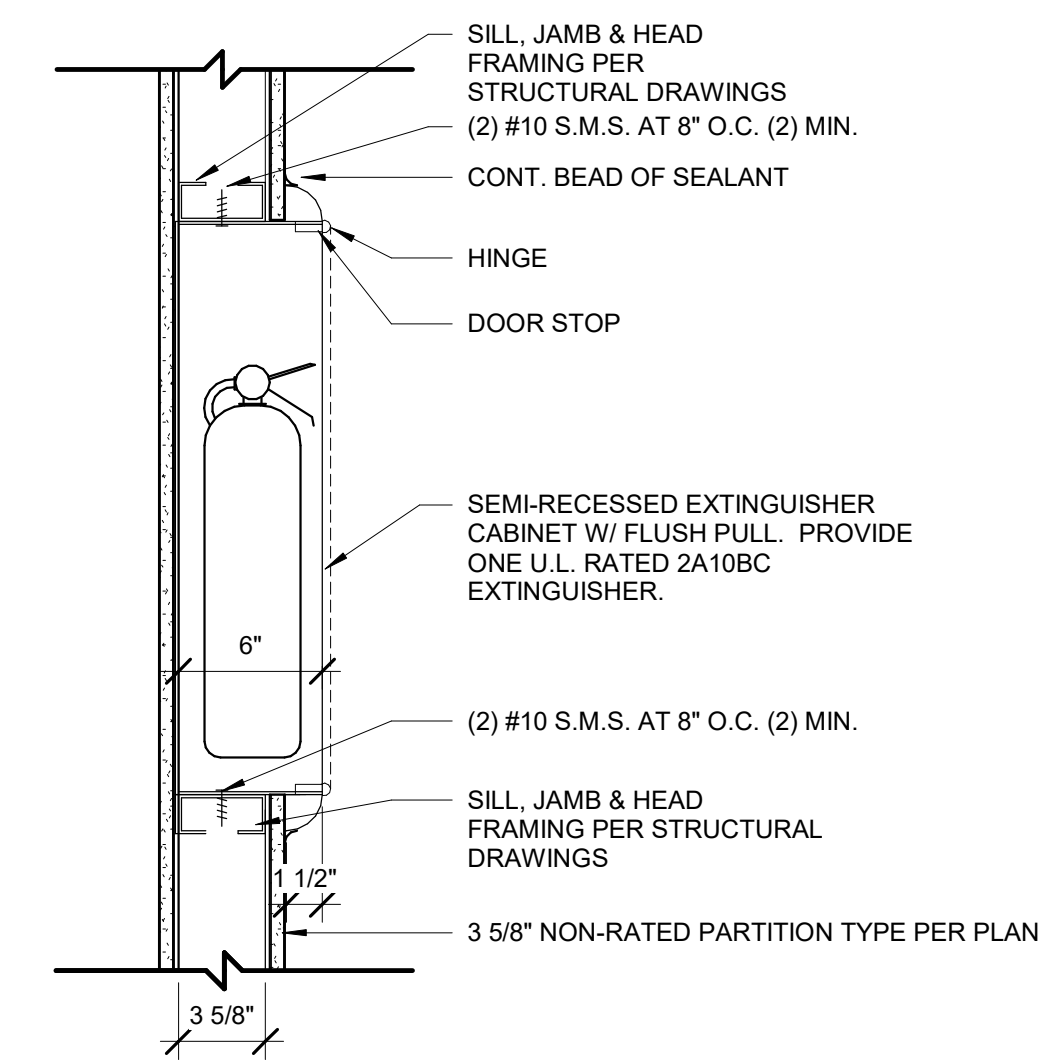


4 STAIR - TOP LANDING
SCALE: 1" = 1'-0"

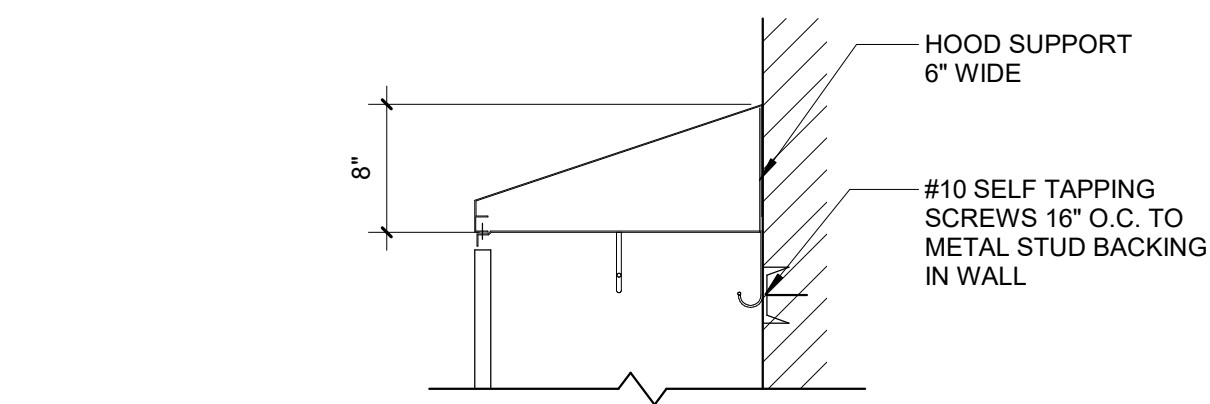


2 STAIR - GUARDRAIL & HANDRAIL
SCALE: 1" = 1'-0"

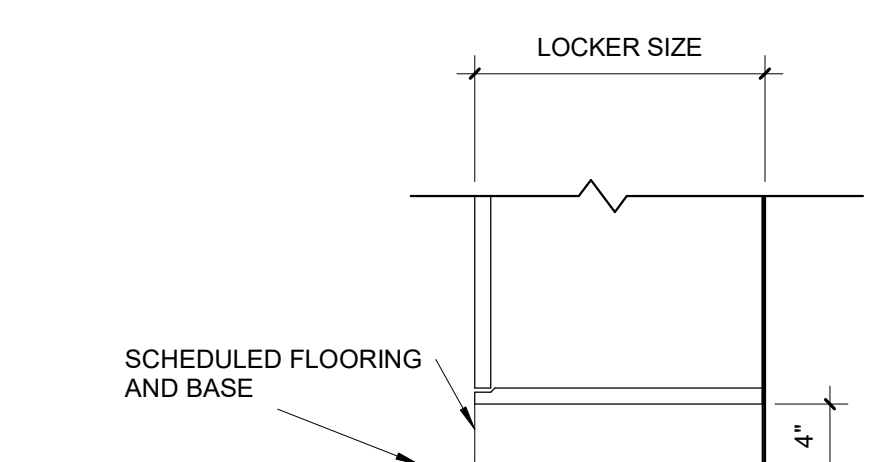
11/8/2024 11:44:49 AM Autodesk Docs://20230523 - South Nevada Health District M.L.K. BLDG 3 LAB/20230523_A22_CENTRAL.rvt



6 NON-RATED FIRE EXTINGUISHER CABINET-SECTION VIEW
SCALE: 1 1/2" = 1'-0"

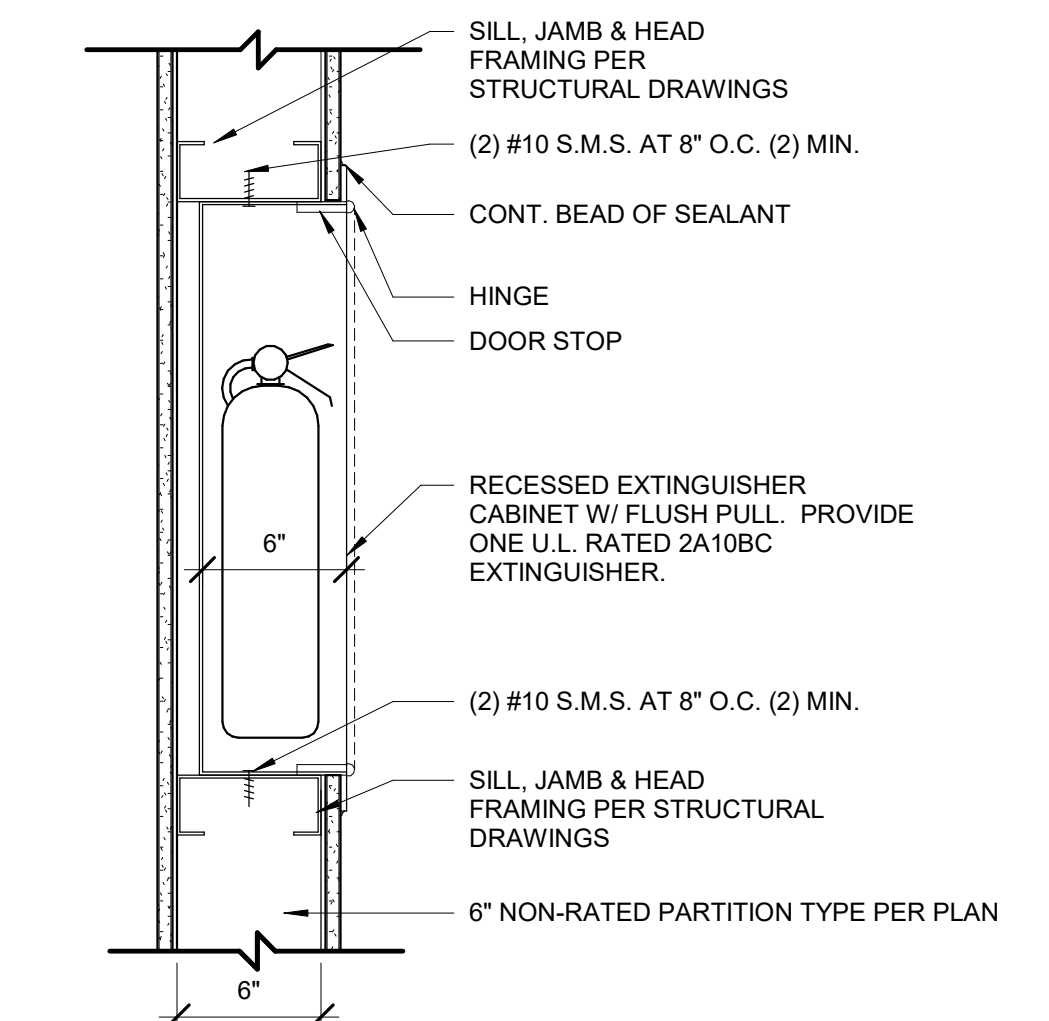


4A: SLOPE TOP ASSEMBLY



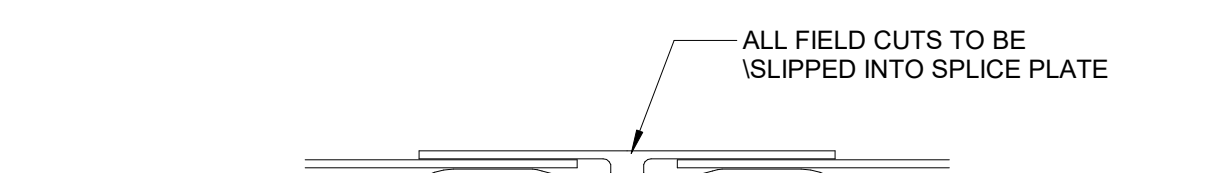
4B: BASE ASSEMBLY

3 LOCKER TOP & BASE DETAILS
SCALE: 1" = 1'-0"

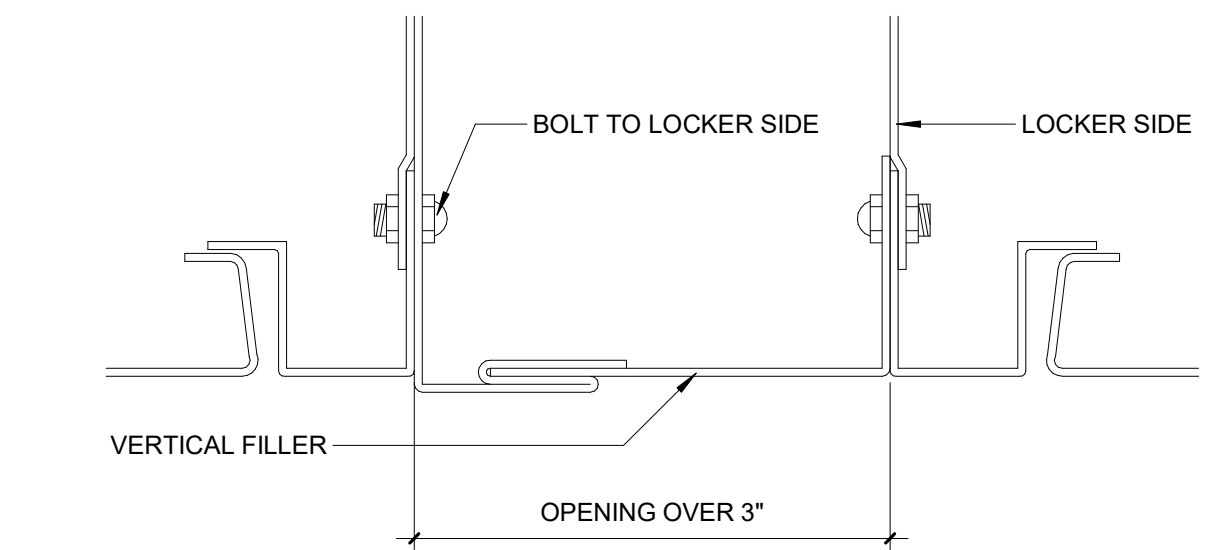


NOTE: ALL PENETRATIONS TO MEET UL LISTING FOR PENETRATIONS

5 NON-RATED FIRE EXTINGUISHER CABINET
SCALE: 1 1/2" = 1'-0"

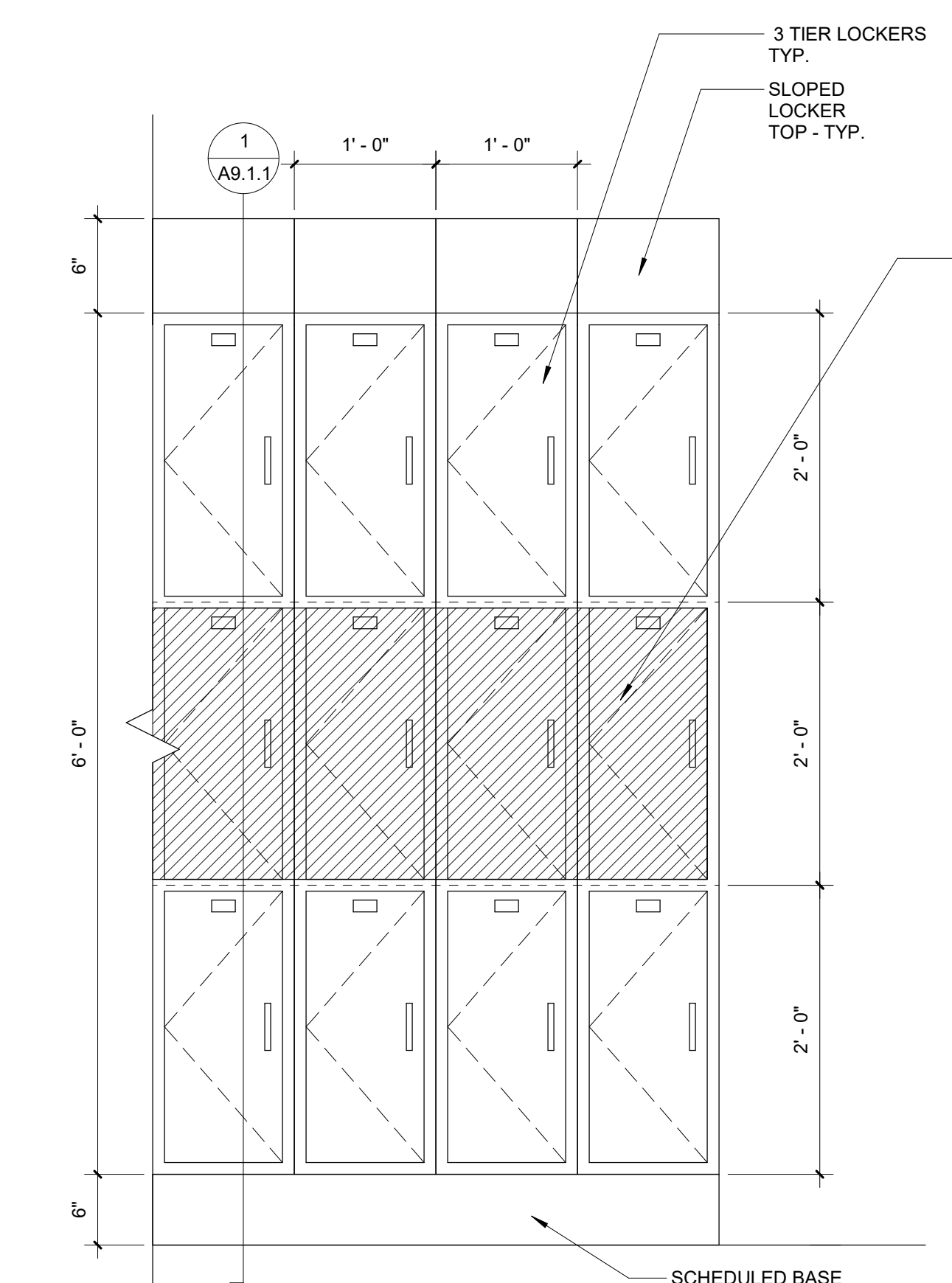


SPLICE PLATE ASSEMBLY



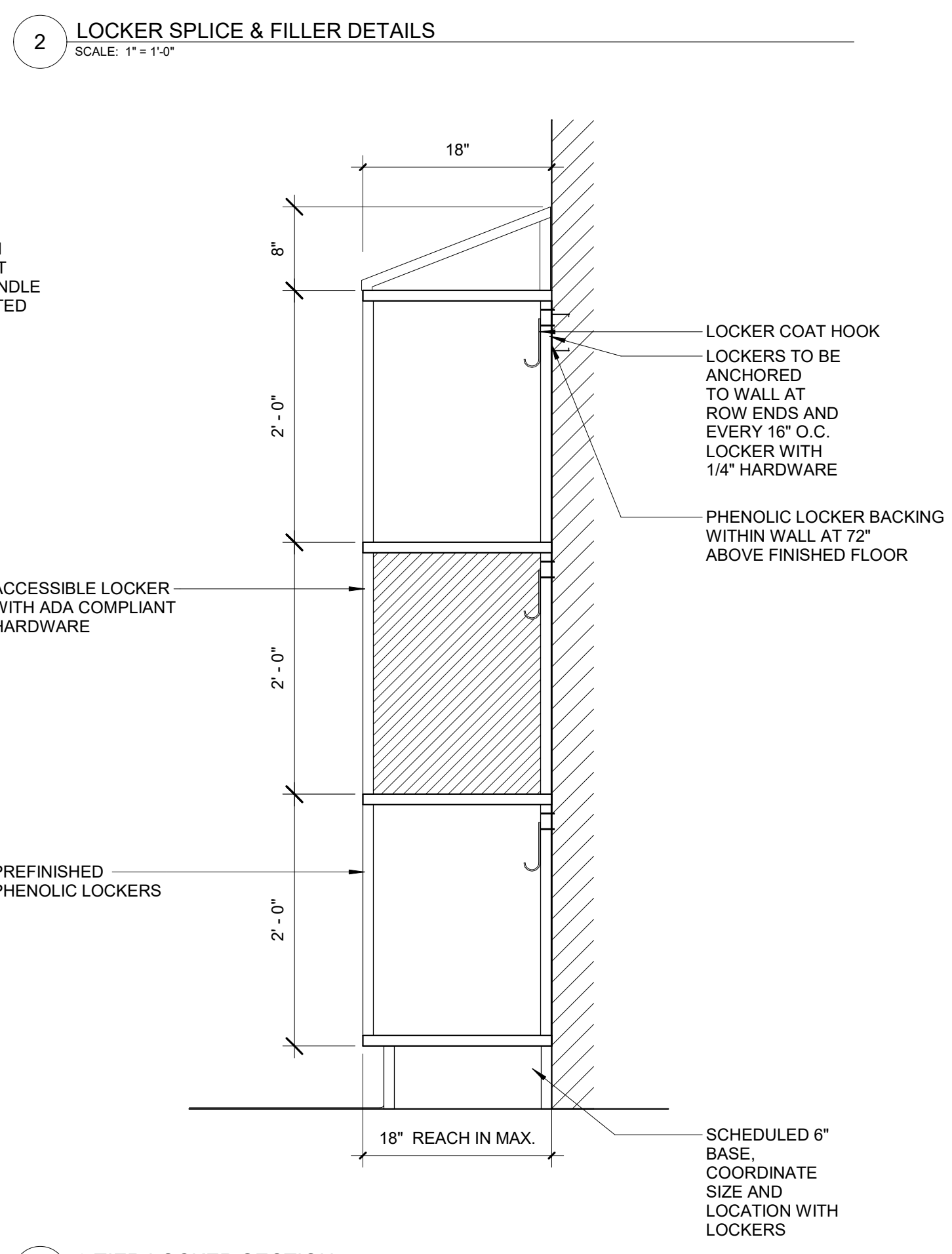
FILLER PANEL DETAIL

2 LOCKER SPLICE & FILLER DETAILS
SCALE: 1" = 1'-0"



4 LOCKER ELEVATION - 3 TIER
SCALE: 1" = 1'-0"

NOTE: WHERE LOCKERS ARE PROVIDED FOR THE PUBLIC, CLIENTS, EMPLOYEES, MEMBERS OR PARTICIPANTS, AT LEAST ONE AND NOT LESS THAN 1 PERCENT OF ALL LOCKERS SHALL BE ACCESSIBLE. A PATH OF TRAVEL NOT LESS THAN 36 INCHES IN CLEAR WIDTH SHALL BE PROVIDED TO THESE LOCKERS.



1 3 TIER LOCKER SECTION
SCALE: 1" = 1'-0"

KEY PLAN

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RICARDO MOLINA

REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D			10.11.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY _____ RM DATE 11.08.2024

PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME _____

MISCELLANEOUS DETAILS

FLOOR/SECTION PHASE _____ DRAWING NO. _____

NOT FOR CONSTRUCTION

CD

A9.1.1

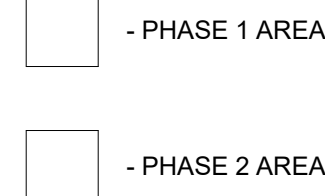
GENERAL FINISH NOTES

- 1. REFER TO ARCHITECTURAL DOCUMENTS FOR ADDITIONAL FINISH MATERIAL REQUIREMENTS... 2. IT IS THE INTENT OF THESE DRAWINGS THAT ALL EXPOSED SURFACES RECEIVE NEW FINISHES AS INDICATED ON THE DRAWINGS OR WRITTEN SPECIFICATIONS UNLESS SPECIFICALLY NOTED OTHERWISE... 3. PRODUCTS LISTED AS BASIS OF DESIGN HEREIN AND ON THE FINISH SCHEDULE HAVE BEEN COORDINATED WITH OTHER FINISHES AND APPROVED BY THE OWNER...

MATERIAL FINISH LEGEND

Table with columns: MATERIAL CODES, DESCRIPTION. Includes ACT ACQUOUSICAL TILE, B BASE, C CEILING, CPT CARPET, etc.

CONSTRUCTION PHASE



ROOM FINISH SCHEDULE

Table with columns: ROOM NO, ROOM NAME, FLOOR FINISH, BASE FINISH, WALL FINISH (North, East, South, West), CORNER GUARDS, CEILING FINISH, COMMENTS. Lists rooms like 1001 ENTRY LOBBY, 1004 ACCESSIONING, etc.

INTERIOR FINISH LEGEND

Table with columns: TAG, LOCATION, TYPE, MANUFACTURER, STYLE/COLOR, FINISH, SIZE, NOTES, SPEC SECTION. Includes sections for GENERAL, FLOORS, BASE, WALLS, CEILING, and MISCELLANEOUS.

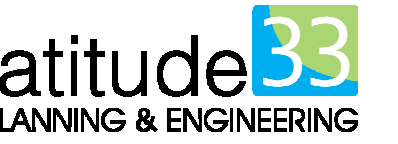
ROOM FINISH SCHEDULE

Table with columns: ROOM NO, ROOM NAME, FLOOR FINISH, BASE FINISH, WALL FINISH (North, East, South, West), CORNER GUARDS, CEILING FINISH, COMMENTS. Lists rooms like 1002 BREAK ROOM, 1003 CONFERENCE ROOM, etc.

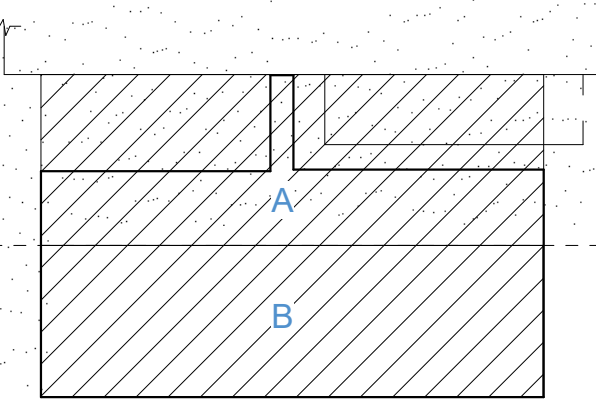


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RICARDO MOLINA

REVISIONS

Table with columns: NO., BY, DESCRIPTION, DATE. Shows revision history for the drawing.

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY: RM DATE: 11.08.2024

PROJECT NO: 20230523 SCALE: As indicated

DRAWING NAME: FINISH LEGEND AND ROOM FINISH SCHEDULE

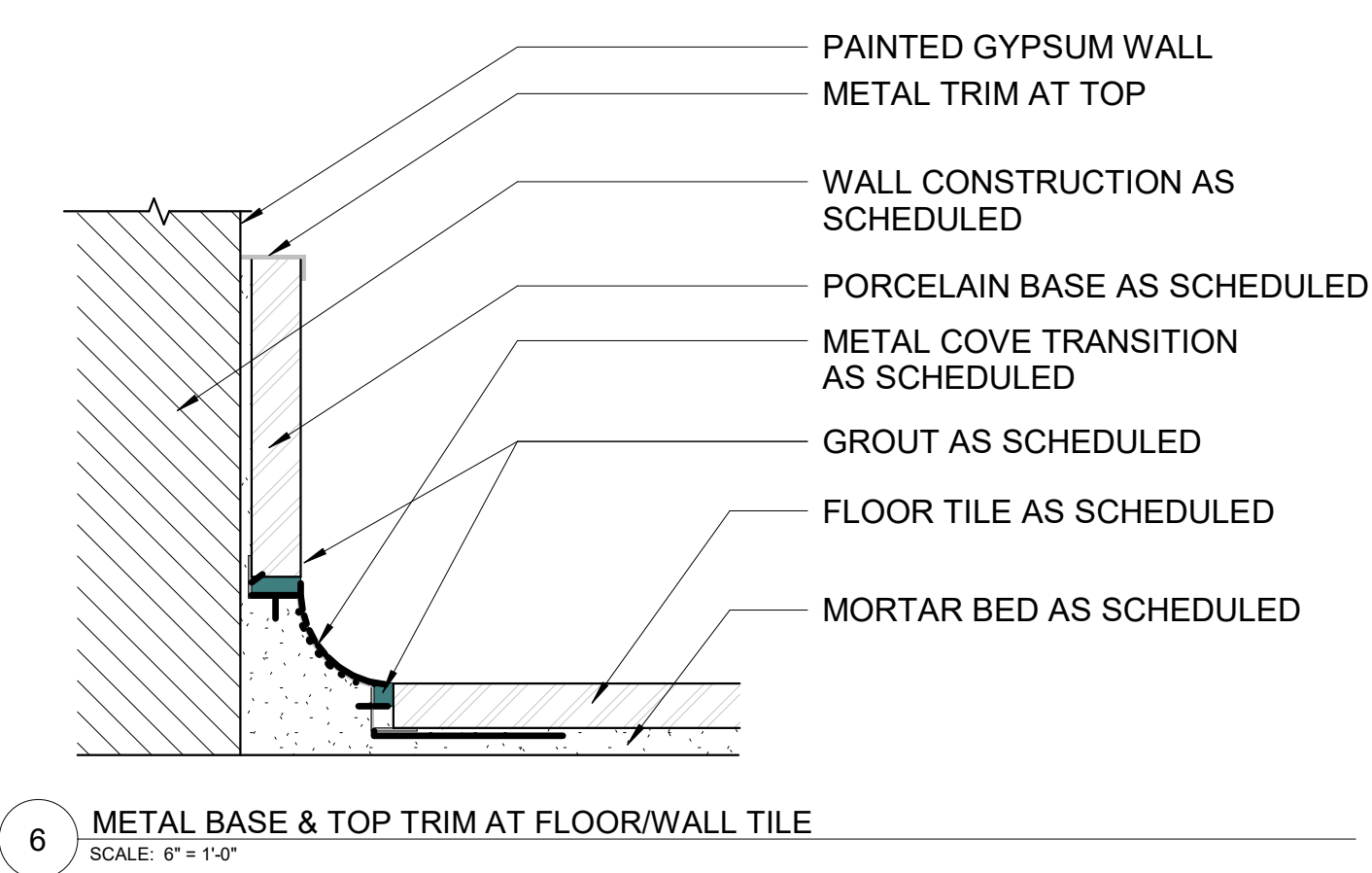
FLOOR/SECTION PHASE: DRAWING NO.

NOT FOR CONSTRUCTION

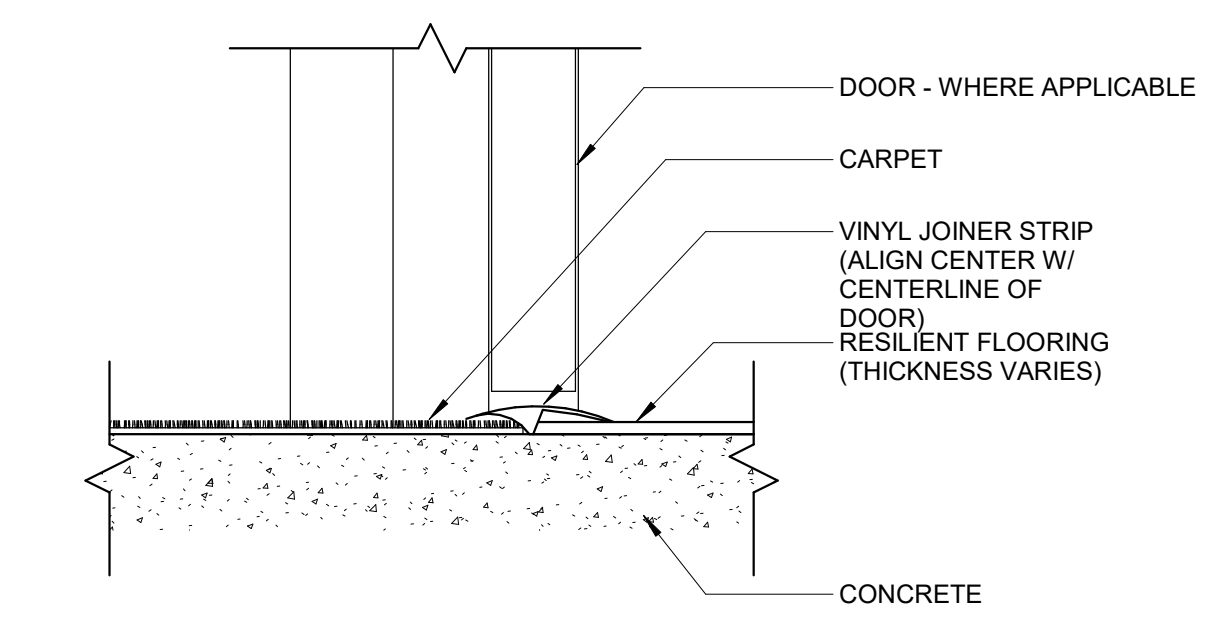
CD

DG.1

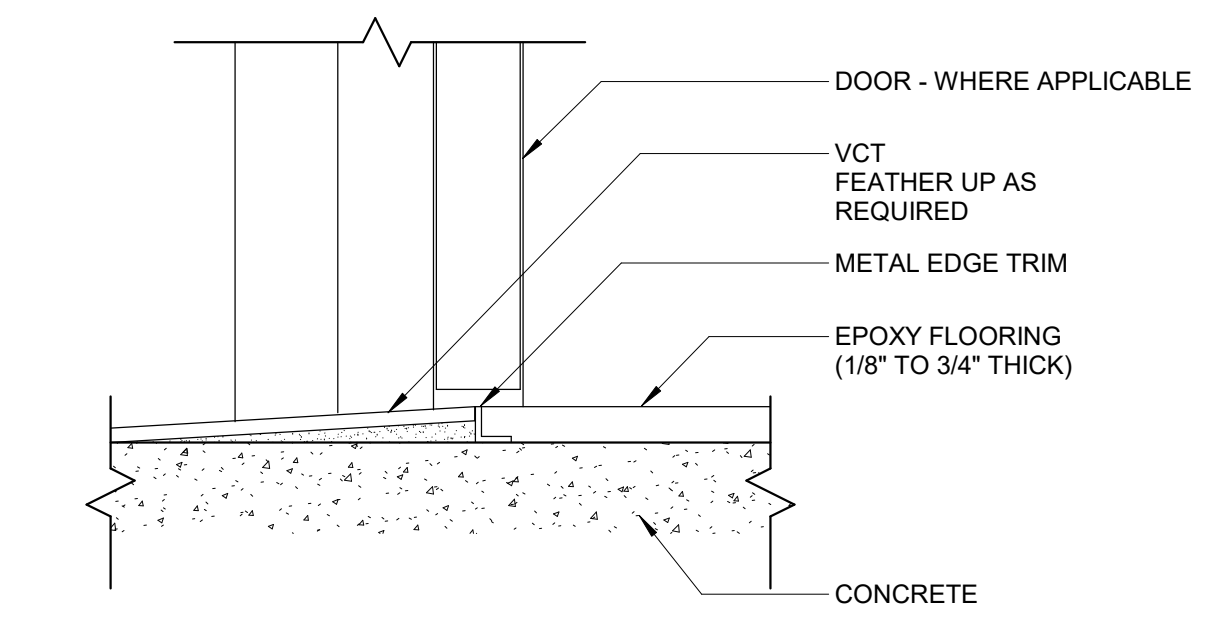
11/8/2024 12:43:19 PM Autodesk Docs//02230523 - South Nevada Health District M.L.K. Bldg - 3 LAB/20230523_A22 - CENTRAL.vrt



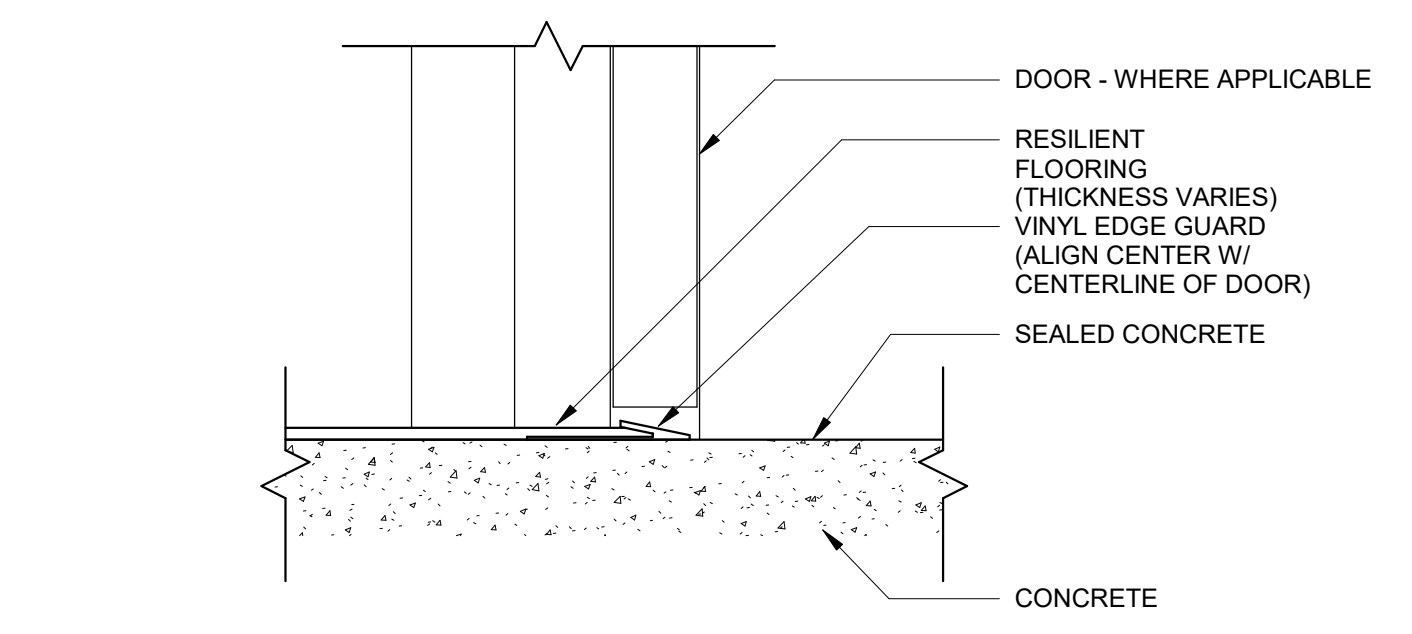
6 METAL BASE & TOP TRIM AT FLOORWALL TILE
SCALE: 6" = 1'-0"



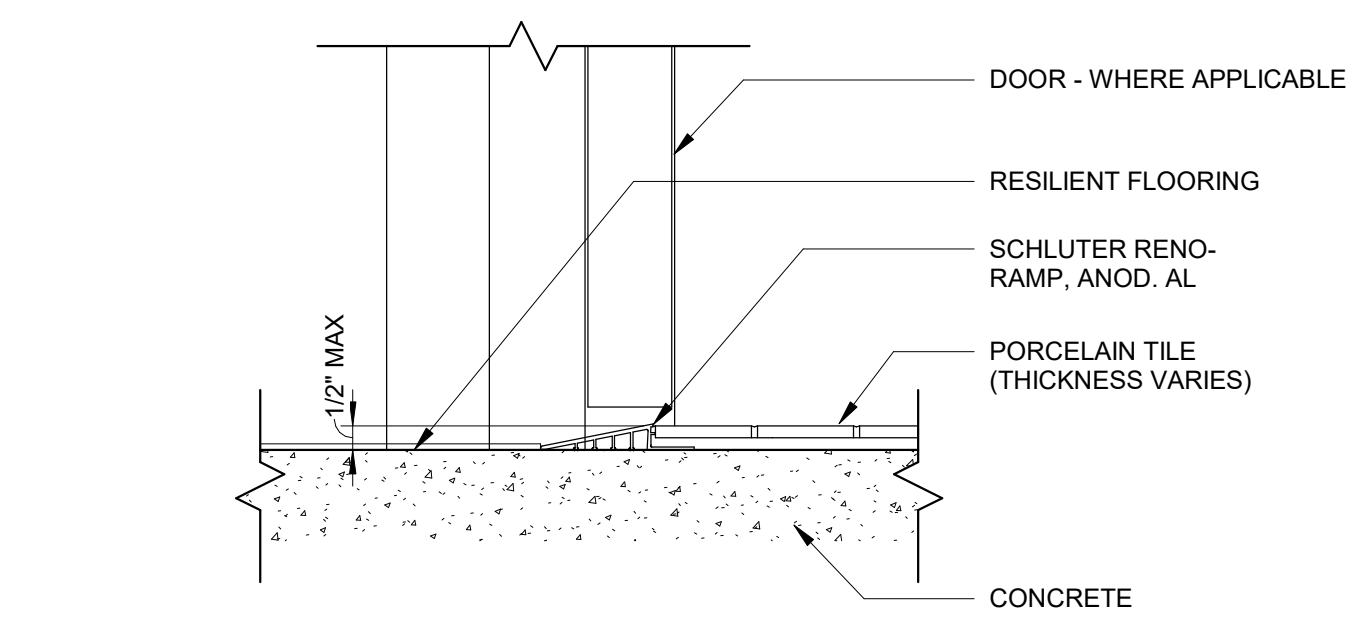
5 RESILIENT TO CARPET
SCALE: 3" = 1'-0"



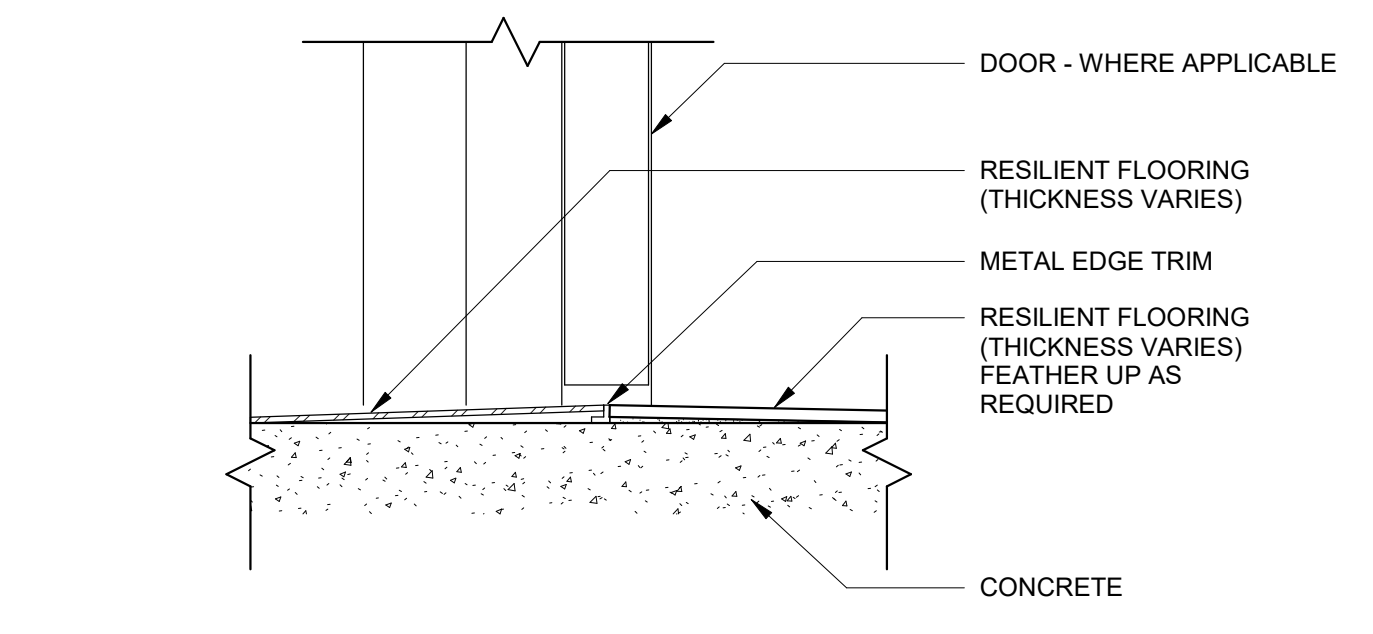
4 RESILIENT TO EPOXY
SCALE: 3" = 1'-0"



3 RESILIENT TO SEALED CONCRETE
SCALE: 3" = 1'-0"

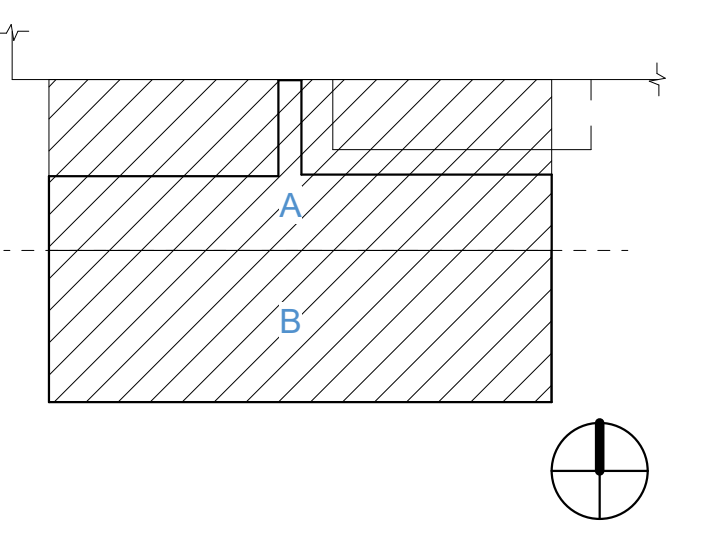


2 RESILIENT FLOORING TO PORCELAIN TILE
SCALE: 3" = 1'-0"

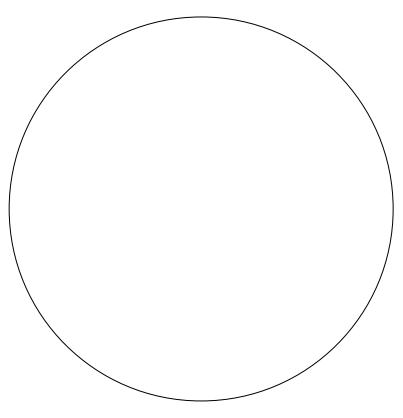


1 RESILIENT TO RESILIENT (DIFFERENT HEIGHTS)
SCALE: 3" = 1'-0"

KEY PLAN



PRINCIPAL
DAVID KEITH
RESEARCH PLANNER
STEPH VARGAS
ARCHITECT
ROBERT McCONNELL
ARCHITECTURAL DESIGNER
RICARDO MOLINA



REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D			10.11.2024
C		ISSUED FOR OWNER'S REVIEW	09.26.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY _____ RM DATE 11.08.2024

PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME

FLOOR FINISH TRANSITION DETAILS

FLOOR/SECTION PHASE DRAWING NO.

NOT FOR CONSTRUCTION

CD DG.2

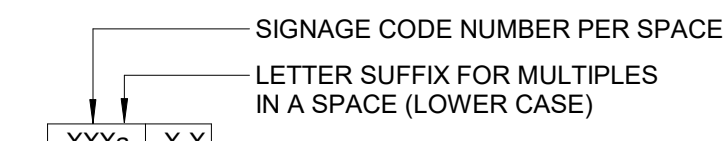
GENERAL NOTES

SIGNAGE LEGEND

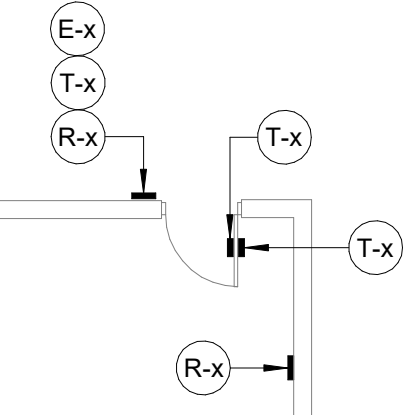
SIGNAGE NOTES

INTERIOR SIGNAGE SCHEDULE

SIGNAGE LOCATION AND TYPE



SIGNAGE PLACEMENT

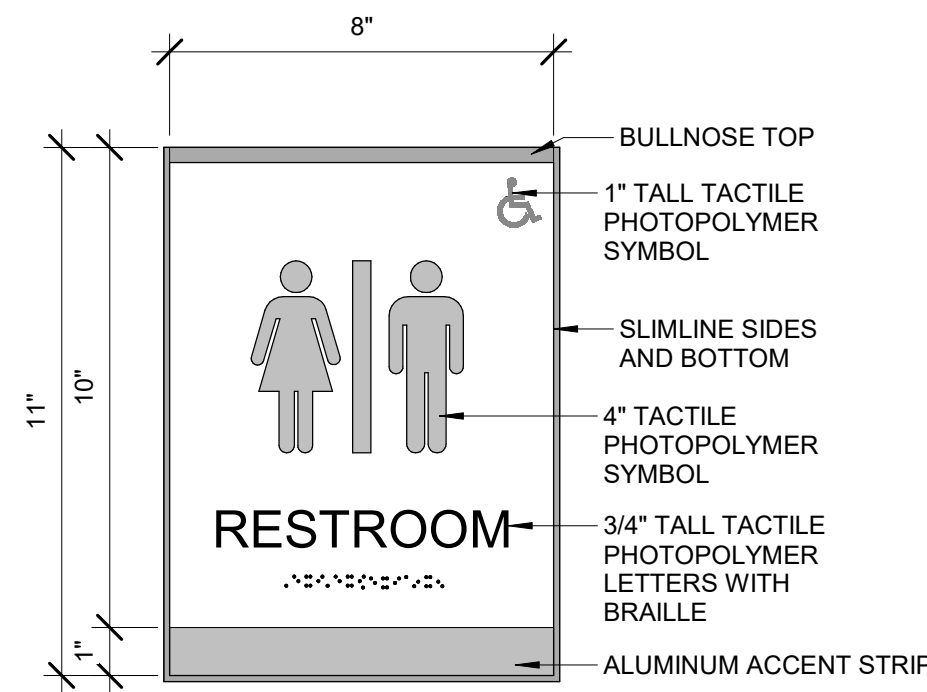
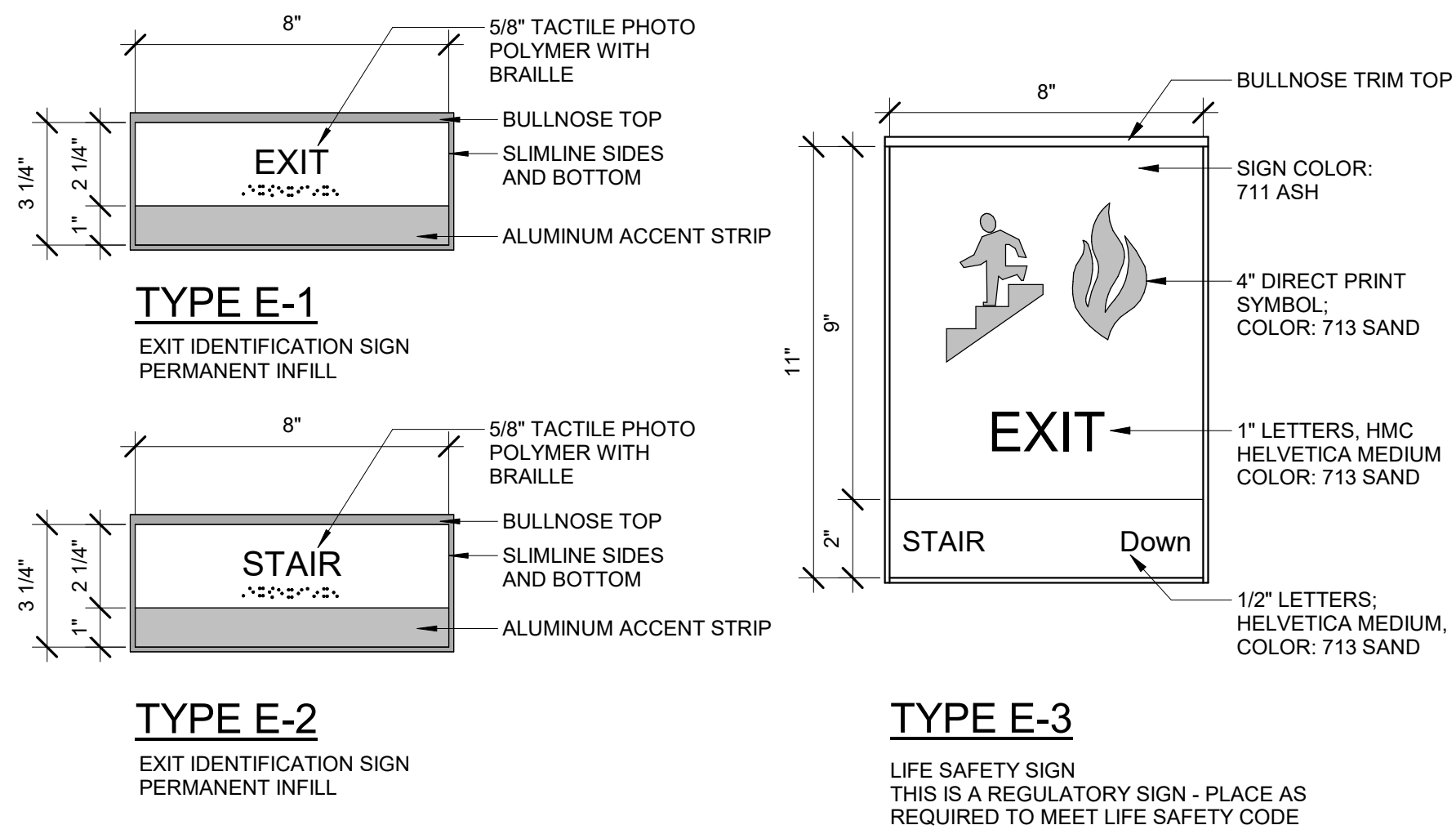


- 1. THIS DRAWING IS INTENDED TO SHOW SIGNAGE DETAILS, TYPES, MOUNTING HEIGHTS AND THE SIGNAGE SCHEDULE.
2. REFER TO SIGNAGE PLAN SHEETS DS.1 - DS.4 FOR SIGNAGE SCOPE AND LOCATIONS.
3. ROOM NUMBERS AND TEXT OF ALL SIGNS MUST BE VERIFIED AND COORDINATED WITH CONTRACTING OFFICER REPRESENTATIVE.
4. PLACE REGULATORY SIGNAGE AS REQUIRED. FOR SIGNAGE TYPE (E-3) PROVIDE UNIQUE SIGN FOR EACH LOCATION INDICATING APPLICABLE FLOOR LEVEL, BUILDING PLAN & "YOU ARE HERE" LOCATION.
5. FOR E2 SIGN TYPES PROVIDE UNIQUE SIGN FOR EACH FLOOR INDICATING APPLICABLE INFORMATION AND EXIT STAIR.
6. ALL BRAILLE IS GRADE 2 - ENGLISH. ALL CHARACTERS & BRAILLE SHALL BE RAISED 1/32" ROUNDED EDGES.
7. ALL RAISED CHARACTERS ARE BETWEEN 5/8" MIN TO 3" MAX IN HEIGHT & MADE IN CONTRASTING COLOR TO THE BACKGROUND FONT SHALL BE UPPERCASE AND IN FONT INDICATED ON DRAWINGS.
8. ALL RAISED CHARACTERS, BRAILLE, AND PICTOGRAMS TO BE LOCATED BETWEEN 48-IN AND 60-IN AFF TO BASELINE OF BRAILLE CELLS PER ICC/ANSI 1.117.1 SIGNS WITH RAISED CHARACTERS ONLY TO BE LOCATED AT 60" AFF TO BASELINE OF HIGHEST TACTILE CHARACTER.
9. WHERE A SIGN IS PROVIDED AT A DOOR, INSTALL ON THE LATCH SIDE OF THE DOOR. SIGNS ON DOUBLE DOORS WITH TWO ACTIVE LEAFS SHALL BE LOCATED ON THE RIGHT SIDE OF THE RIGHT HAND DOOR. SIGNS FOR DOUBLE DOORS WITH AN INACTIVE LEAF ARE TO BE INSTALLED ON THE INACTIVE LEAF. MOUNT ON NEAREST ADJACENT WALL WHERE THERE IS INSUFFICIENT WIDTH BY DOOR.
10. FOR SIGNS MOUNTED ON GLAZING OR TRANSPARENT PARTITIONS INSTALL AN EQUAL SIZE BLANK SIGN ON OPPOSITE SIDE OF PARTITION.
11. SUBMIT ALL SIGNS WITH SHOP DRAWINGS AND LOCATION PLANS FOR APPROVAL OF GRAPHICS AND TEXT BY GOVERNMENT PRIOR TO CONSTRUCTION. PROVIDE FULL SIZED FINISHED SAMPLE OF TYPICAL ROOM SIGN W/INSERT PRINTED FOR APPROVAL.
12. BASIS OF DESIGN SPEC FOR INTERIOR ROOM SIGNS:
- MFR: 290 SIGN SYSTEMS / GSA CONTRACT #GS-07F-0265N
- STYLE: SLIDE MODULAR SYSTEM, STANDARD CONFIGURATION TYPICAL RM SIGNS: ADA BOTTOM PLAQUE WITH UV-CURED DIRECT-PRINT RAISED CHARACTERS & BRAILLE, ALUMINUM DIVIDER CHANGEABLE MESSAGE SIGNS:
- 1/8" THK NON-GLARE ACRYLIC LENS WITH SUBSURFACE DIGITAL OUTPUT GRAPHICS ON LAMINATED HP PHOTO
- GLOSS PAPER, COLOR: 708 SOFT WHITE, U.N.O
- FRAME METAL: NATURAL ANODIZED ALUMINUM / COLOR: SATIN NATURAL / EDGE: SQUARE, SLIMLINE U.N.O
- SIGN MATERIAL: 1/8" THICK ACRYLIC, COLOR: 708 SOFT WHITE, TYP. / ACCENT COLORS TO MATCH FINISH PAINT P4 (SEE INTERIOR FINISH LEGEND ON SHEET) MATTE FINISH.
- TACTILE AND PRINTED MESSAGE COLOR: BLACK
- FONT: HELVETICA NEUE 55 ROMAN, U.N.O

Table with columns: PHASE, MESSAGE (SIGN CODE, SIGN TYPE), ROOM INFO (ROOM NUMBER, ROOM NAME), MESSAGE (IF DIFFERENT THAN ROOM NAME), COMMENTS.

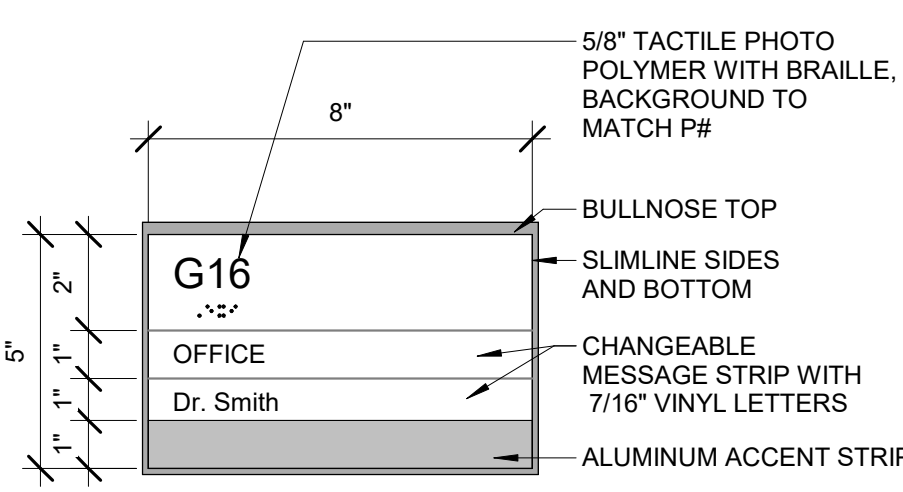
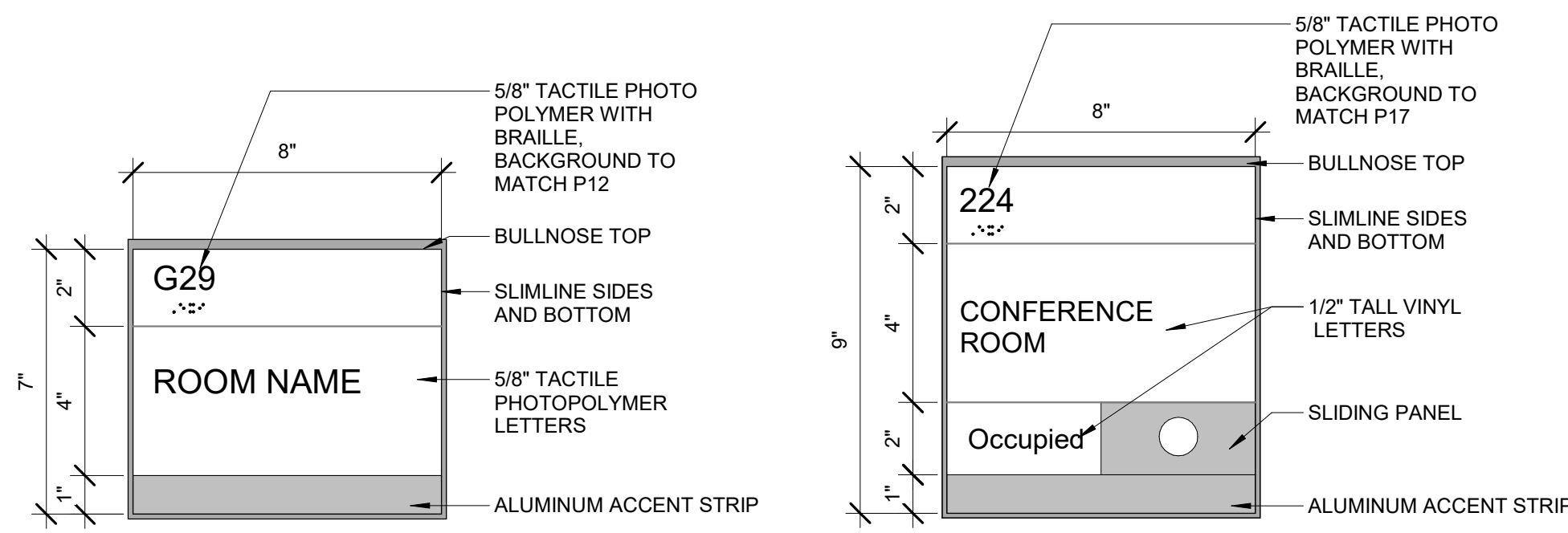
401 West A Street, Suite 320 San Diego, CA 92101 Tel: 949-417-7550

CONTRACTORS CONSULTANTS



D EXIT SIGNAGE SCALE: 3" = 1'-0"

C TOILET ROOM SIGNAGE SCALE: 3" = 1'-0"

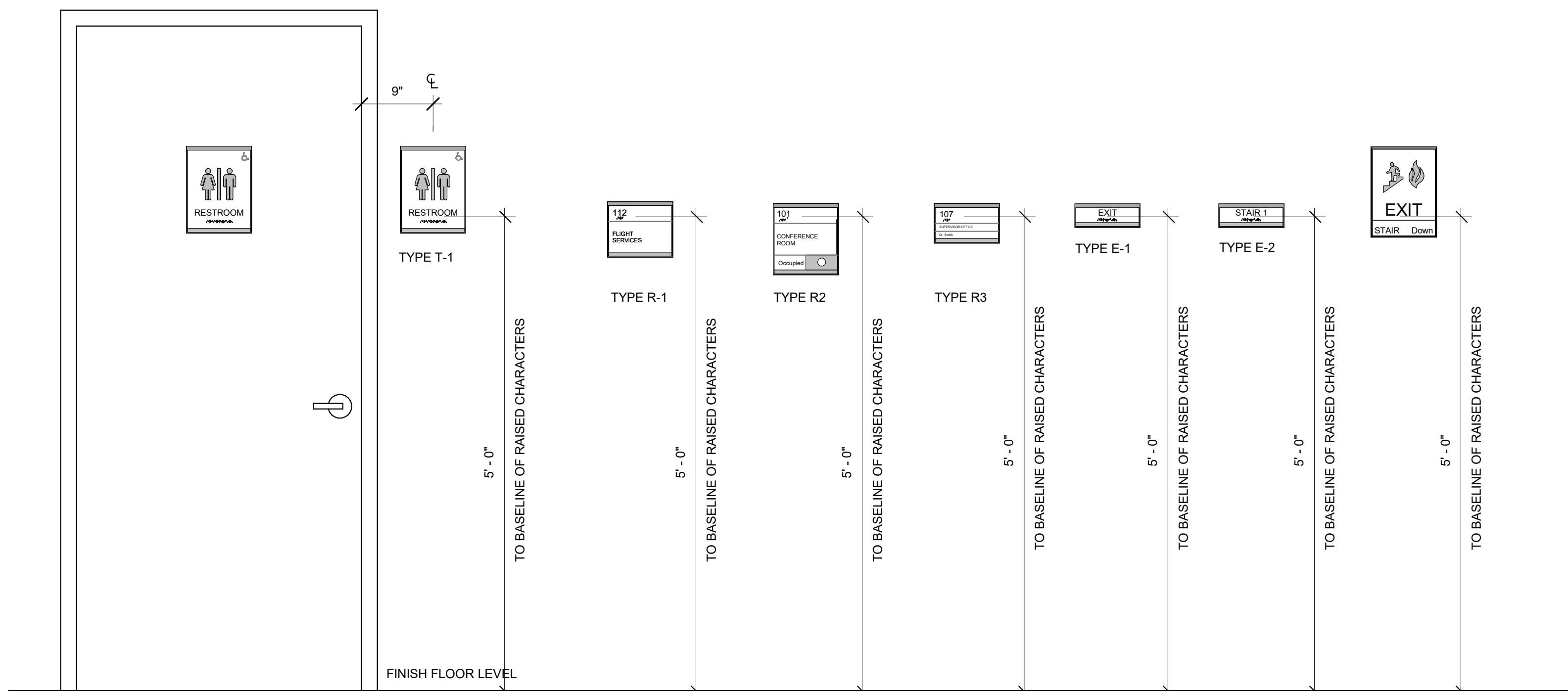


TYPE R-1 ROOM IDENTIFICATION SIGN THIS SIGN WILL SERVE AS GENERAL PURPOSE FOR PERMANENT ROOMS

TYPE R-2 CONFERENCE ROOM IDENTIFICATION SIGN CHANGEABLE WINDOWS

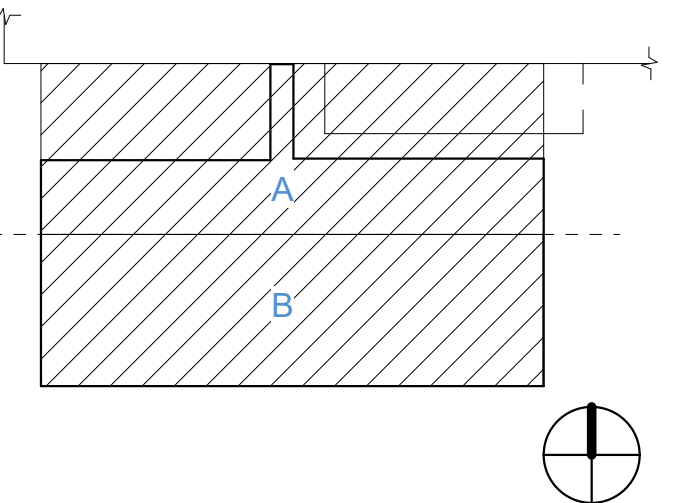
TYPE R-3 OFFICE IDENTIFICATION SIGN CHANGEABLE WINDOWS

B SIGNAGE ROOMS SCALE: 3" = 1'-0"



A Signage Mounting Heights - Unisex Bathroom Only SCALE: 1" = 1'-0"

KEY PLAN



PRINCIPAL: DAVID KEITH, RESEARCH PLANNER: STEPH VARGAS, ARCHITECT: ROBERT MCCONNELL, ARCHITECTURAL DESIGNER: RICARDO MOLINA

REVISIONS

Table with columns: NO., BY, DESCRIPTION, DATE. Includes revision 1: ISSUED FOR GC BIDDING, 11.08.2024 and revision 2: ISSUED FOR OWNER'S REVIEW, 09.26.2024.

Southern Nevada Health District 700 South M.L.K. Blvd Las Vegas, NV 89106

DRAWN BY: RM DATE: 11.08.2024

PROJECT NO.: 20230523 SCALE: As indicated

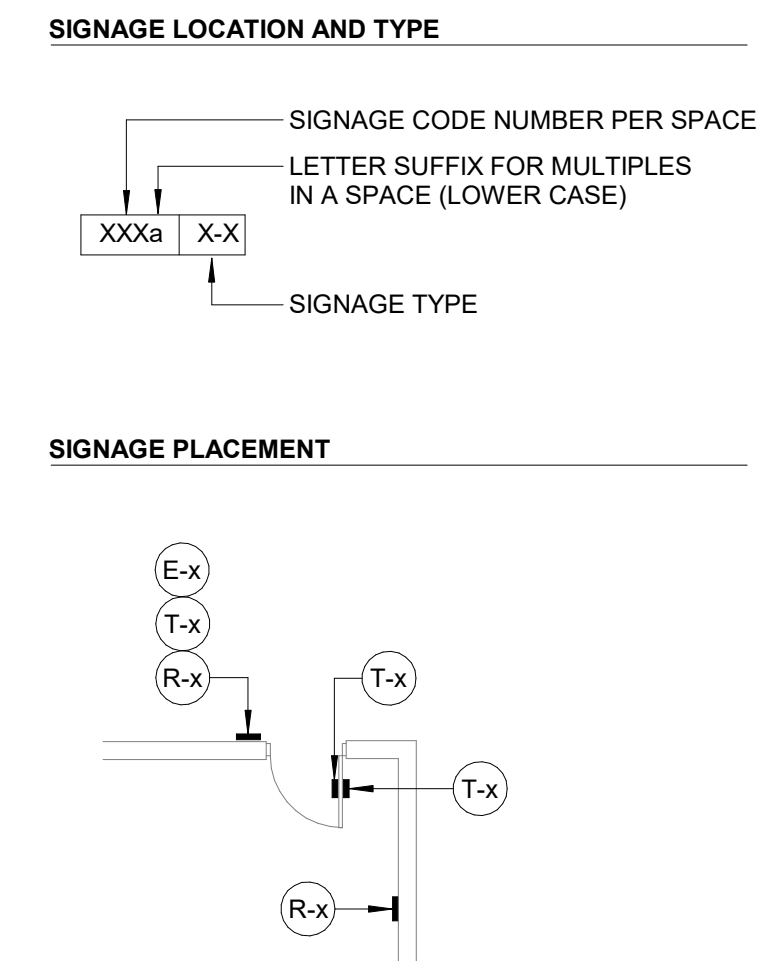
INTERIOR SIGNAGE SCHEDULE AND DETAILS

FLOOR/SECTION PHASE: DRAWING NO.: CD DSG.1

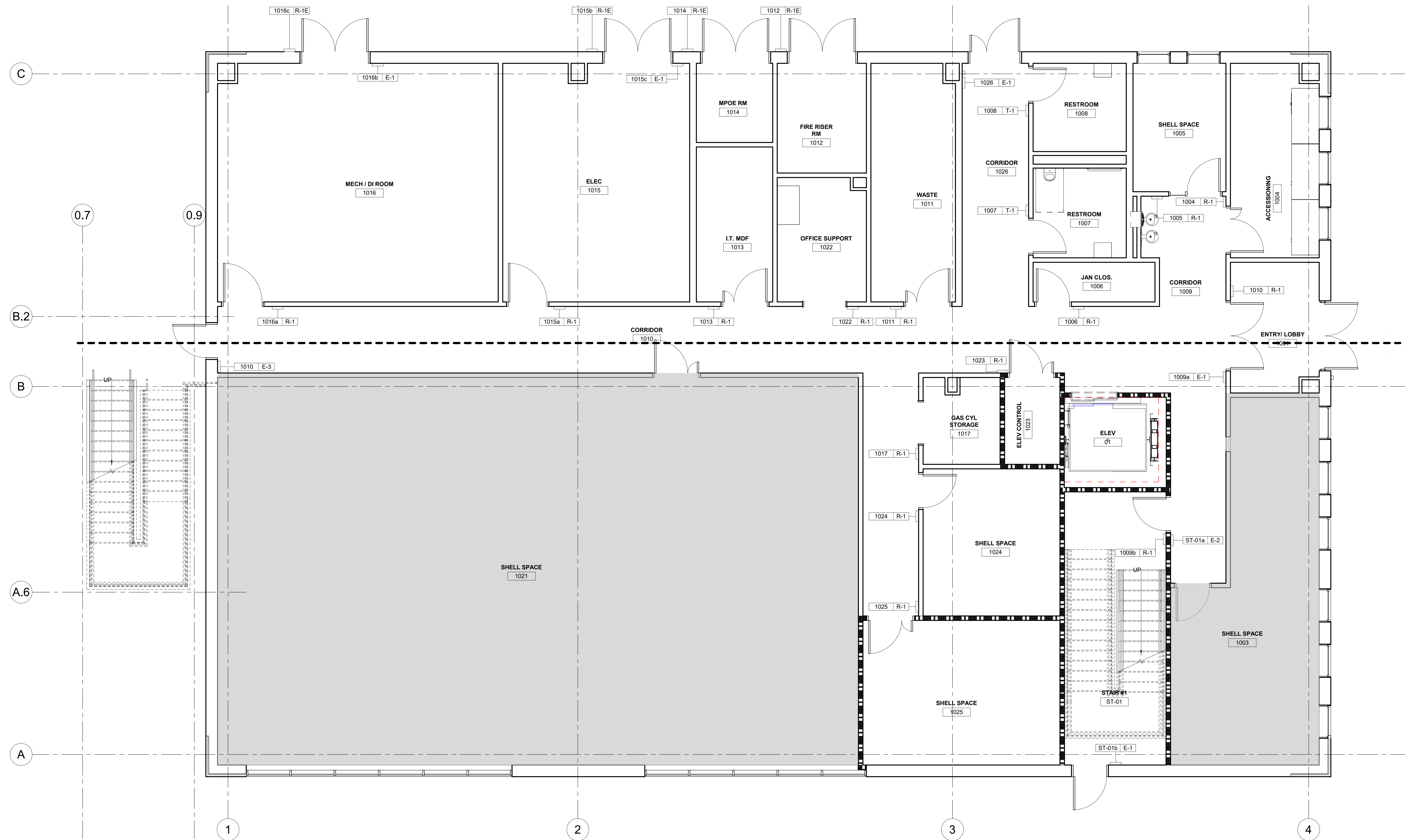
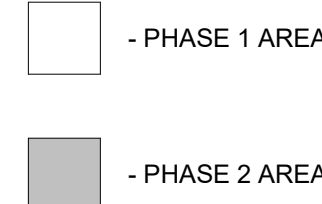
GENERAL NOTES

1. REFER TO SHEET DSG.1 FOR SIGNAGE DETAILS AND MOUNTING HEIGHTS
2. REFER TO SHEET DSG.1 FOR SIGNAGE SCHEDULE
3. ROOM NUMBERS AND TEXT OF ALL SIGNS MUST BE VERIFIED AND COORDINATED WITH CONTRACTING OFFICER REPRESENTATIVE.
4. PLACE REGULATORY SIGNAGE AS REQUIRED.

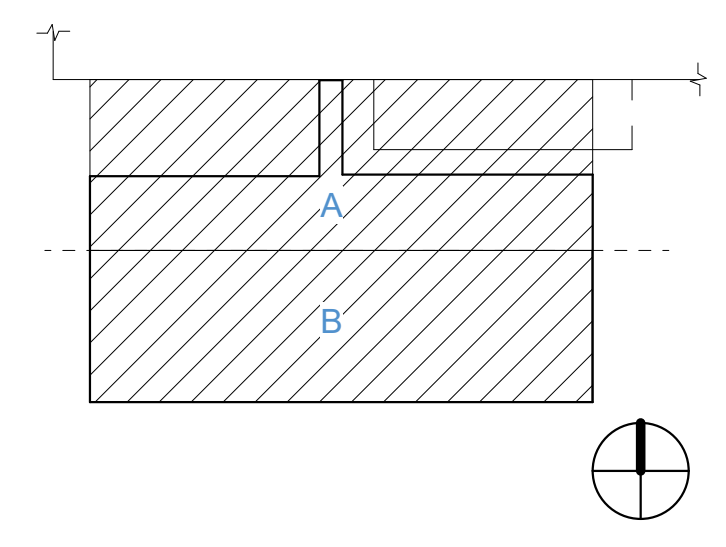
SIGNAGE LEGEND



CONSTRUCTION PHASE



KEY PLAN



PRINCIPAL
DAVID KEITH
RESEARCH PLANNER
STEPH VARGAS
ARCHITECT
ROBERT MCCONNELL
ARCHITECTURAL DESIGNER
RICARDO MOLINA

REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D			10.11.2024
C		ISSUED FOR OWNER'S REVIEW	09.26.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY _____ RM DATE 11.08.2024

PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME

FLOOR/SECTION PHASE DRAWING NO.

PHASE 1 - INTERIOR SIGNAGE PLAN LEVEL 1 OVERALL
CD DS.1

NOT FOR CONSTRUCTION

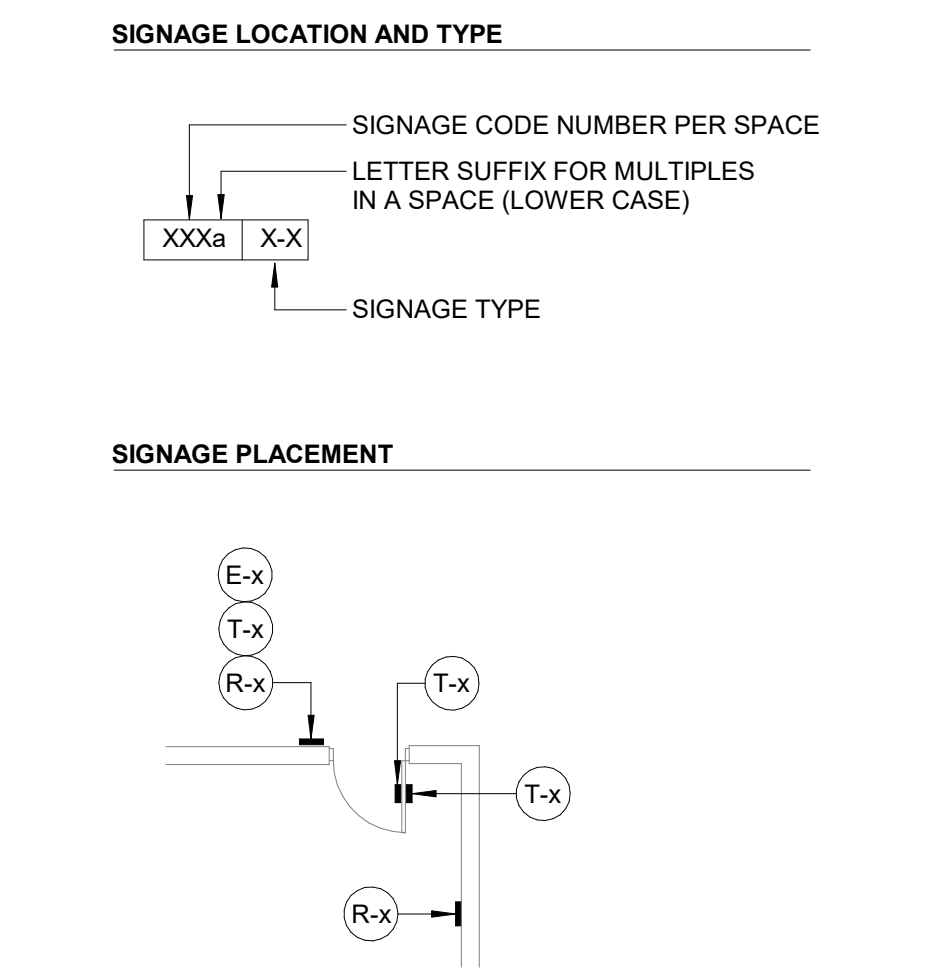
11/8/2024 12:43:15 PM Autodesk Docs://20230523 - South Nevada Health District M.L.K. Bldg - 3 LAB/20230523_A22_CENTRAL.rvt

1 PHASE 1 - FIRST FLOOR FURNITURE PLAN
SCALE: 1/4" = 1'-0"

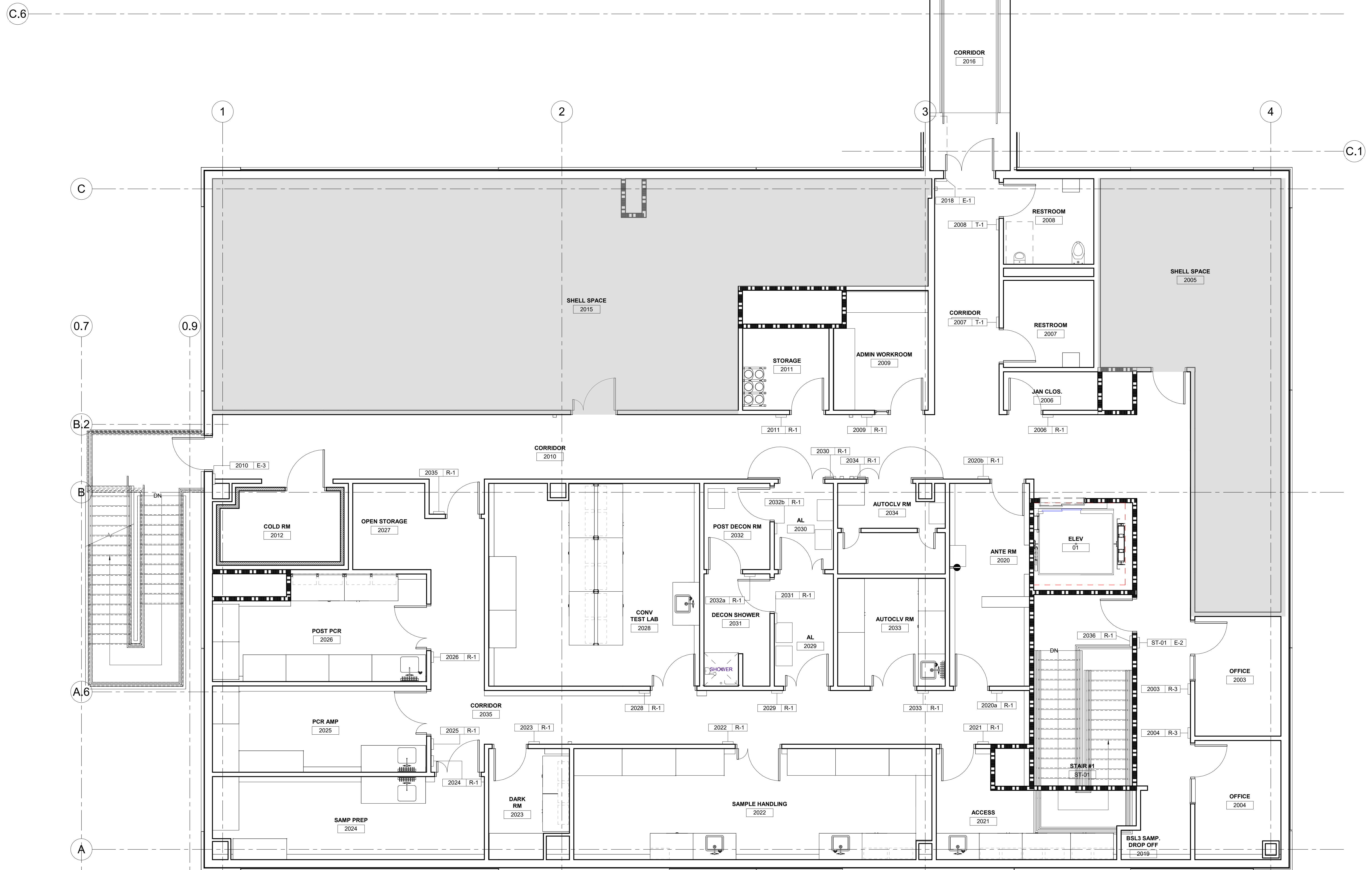
GENERAL NOTES

1. REFER TO SHEET DSG.1 FOR SIGNAGE DETAILS AND MOUNTING HEIGHTS
2. REFER TO SHEET DSG.1 FOR SIGNAGE SCHEDULE
3. ROOM NUMBERS AND TEXT OF ALL SIGNS MUST BE VERIFIED AND COORDINATED WITH CONTRACTING OFFICER REPRESENTATIVE.
4. PLACE REGULATORY SIGNAGE AS REQUIRED.

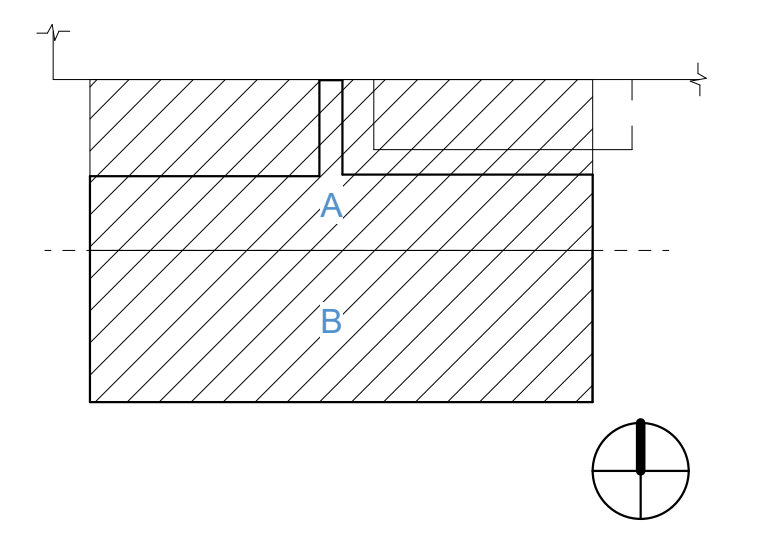
SIGNAGE LEGEND



CONSTRUCTION PHASE



KEY PLAN



PRINCIPAL
DAVID KEITH
RESEARCH PLANNER
STEPH VARGAS
ARCHITECT
ROBERT MCCONNELL
ARCHITECTURAL DESIGNER
RICARDO MOLINA

REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D			10.11.2024
C		ISSUED FOR OWNER'S REVIEW	09.26.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY _____ RM DATE 11.08.2024

PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME

FLOOR/SECTION PHASE DRAWING NO.

PHASE 1 - INTERIOR SIGNAGE PLAN LEVEL 2 OVERALL
CD DS.2

NOT FOR CONSTRUCTION

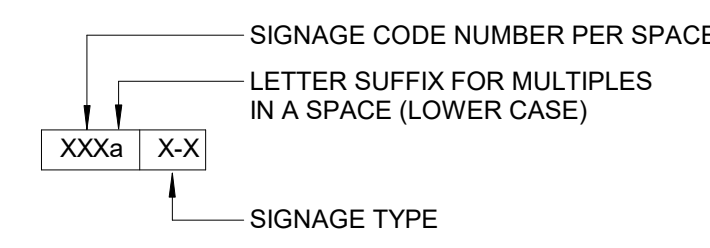
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GENERAL NOTES

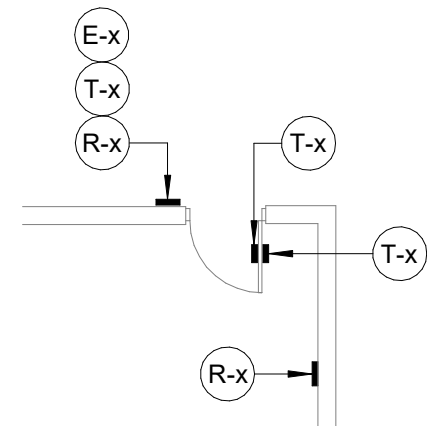
1. REFER TO SHEET DSG.1 FOR SIGNAGE DETAILS AND MOUNTING HEIGHTS
2. REFER TO SHEETS DSG.1 FOR SIGNAGE SCHEDULE
3. ROOM NUMBERS AND TEXT OF ALL SIGNS MUST BE VERIFIED AND COORDINATED WITH CONTRACTING OFFICER REPRESENTATIVE.
4. PLACE REGULATORY SIGNAGE AS REQUIRED.

SIGNAGE LEGEND

SIGNAGE LOCATION AND TYPE

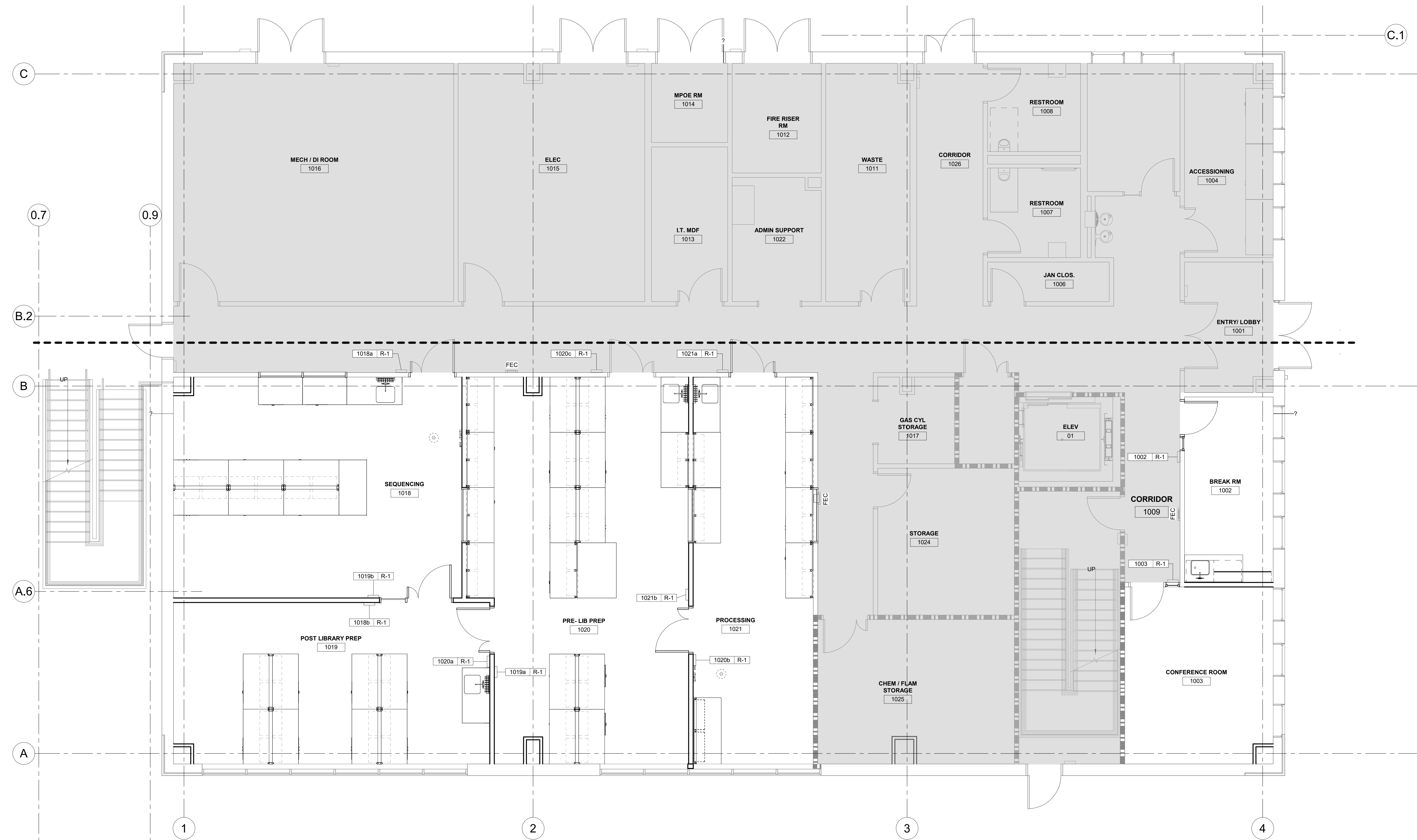


SIGNAGE PLACEMENT

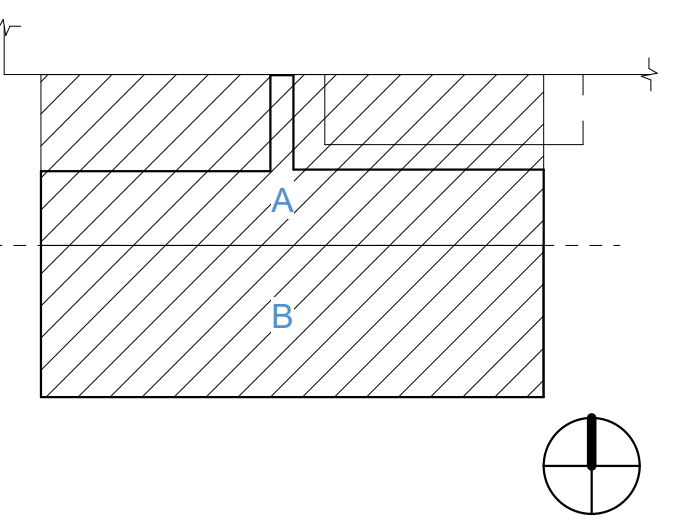


CONSTRUCTION PHASE

- - PHASE 1 AREA
- - PHASE 2 AREA



KEY PLAN



PRINCIPAL
DAVID KEITH
RESEARCH PLANNER
STEPH VARGAS
ARCHITECT
ROBERT MCCONNELL
ARCHITECTURAL DESIGNER
RICARDO MOLINA

REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D			10.11.2024
C		ISSUED FOR OWNER'S REVIEW	09.26.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY _____ RM DATE 11.08.2024

PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME

PHASE 2 - INTERIOR SIGNAGE PLAN LEVEL 1 OVERALL

FLOOR/SECTION PHASE DRAWING NO.

1 PHASE 2 - FIRST FLOOR FURNITURE PLAN
SCALE: 1/4" = 1'-0"

NOT FOR CONSTRUCTION

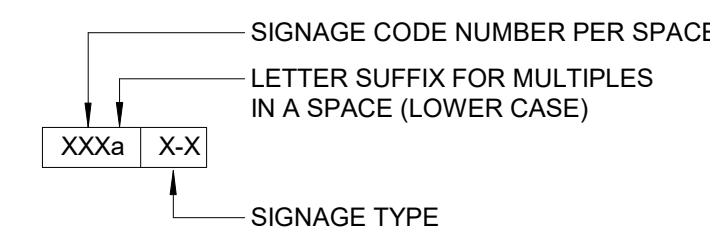
CD DS.3

GENERAL NOTES

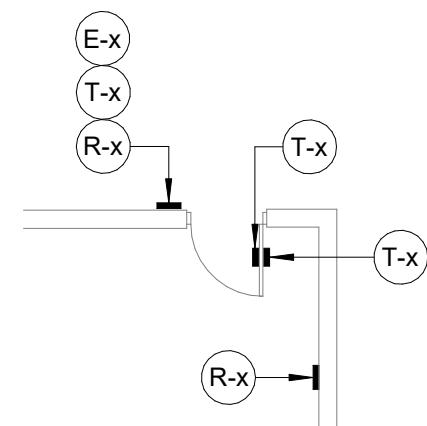
1. REFER TO SHEET DSG.1 FOR SIGNAGE DETAILS AND MOUNTING HEIGHTS
2. REFER TO SHEETS DSG.1 FOR SIGNAGE SCHEDULE
3. ROOM NUMBERS AND TEXT OF ALL SIGNS MUST BE VERIFIED AND COORDINATED WITH CONTRACTING OFFICER REPRESENTATIVE.
4. PLACE REGULATORY SIGNAGE AS REQUIRED.

SIGNAGE LEGEND

SIGNAGE LOCATION AND TYPE

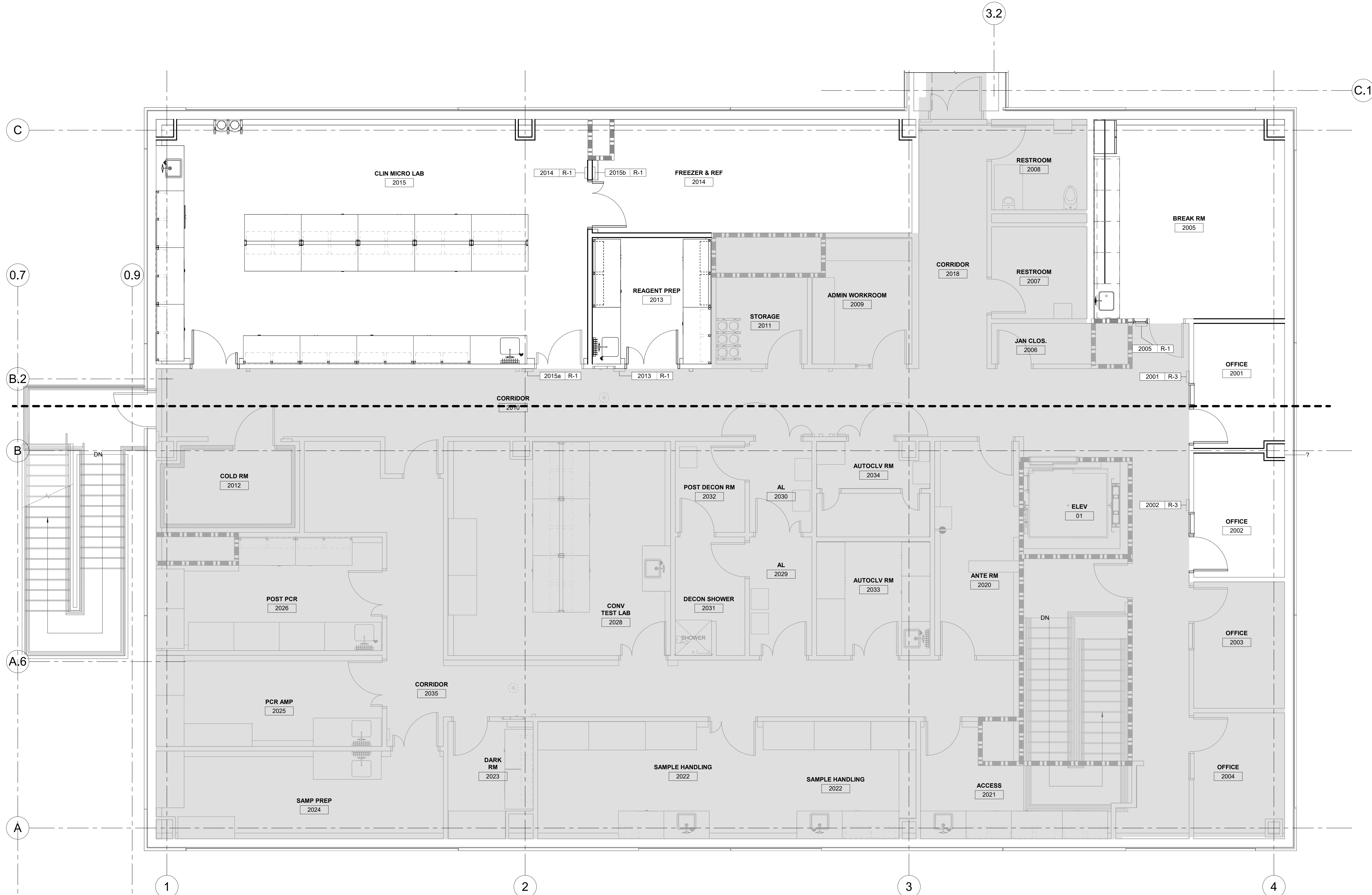


SIGNAGE PLACEMENT

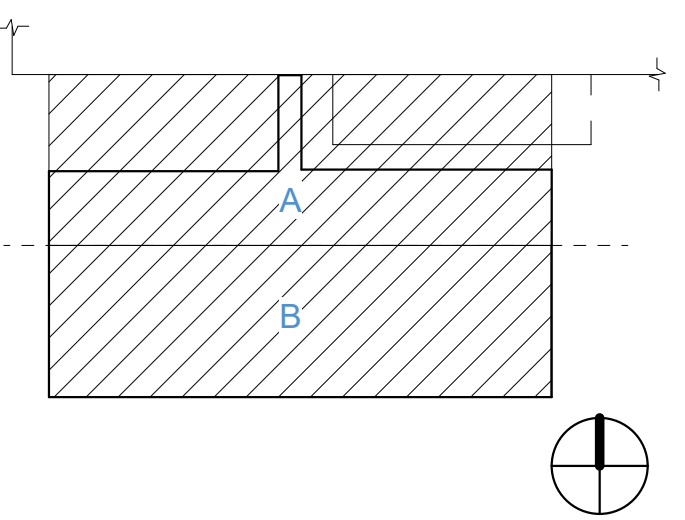


CONSTRUCTION PHASE

- PHASE 1 AREA
- PHASE 2 AREA



KEY PLAN



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DAVID KEITH
RESEARCH PLANNER
STEPH VARGAS
ARCHITECT
ROBERT MCCONNELL
ARCHITECTURAL DESIGNER
RICARDO MOLINA

REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D			10.11.2024
C		ISSUED FOR OWNER'S REVIEW	09.26.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY _____ RM DATE 11.08.2024

PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME

PHASE 2 - INTERIOR SIGNAGE PLAN LEVEL 2 OVERALL

FLOOR/SECTION PHASE DRAWING NO.

NOT FOR CONSTRUCTION

CD DS.4

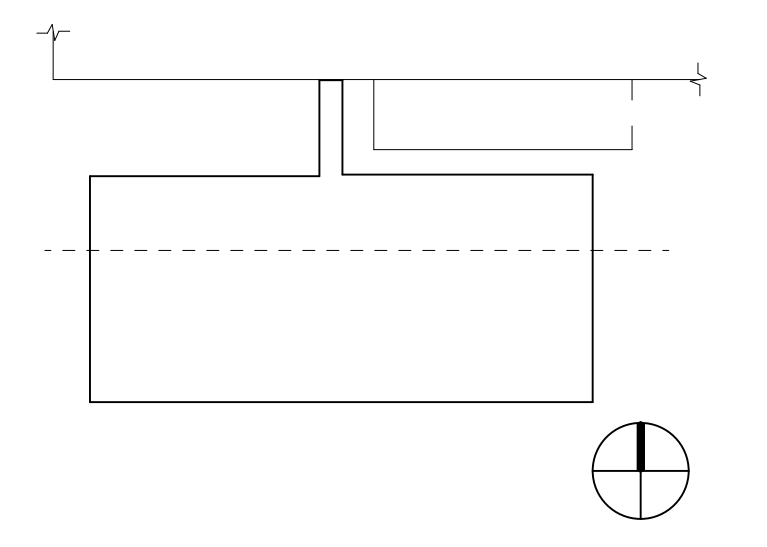
1 PHASE 2 - SECOND FLOOR FURNITURE PLAN
SCALE: 1/4" = 1'-0"



STRUCTURAL FOUNDATION NOTES
(UNLESS NOTED OTHERWISE)

- BOTTOM OF FOUNDATION ELEVATIONS INDICATED THUS (X'X'X') IN PLAN. BOTTOM OF FOOTING ELEVATION IS RELATIVE TO THE EXISTING BUILDING FLOOR SLAB ELEVATION WHICH IS DATUM 0'-0". TOP OF EXTERIOR FOUNDATION ELEVATIONS TO BE A MINIMUM OF 1'-0" BELOW FINISHED GRADE. STEP FOOTINGS AS REQUIRED PER TYPICAL DETAIL 6/SS.1. TOP OF INTERIOR FOUNDATIONS TO BE 2'-0" BELOW FINISHED FLOOR UNLESS NOTED OTHERWISE.
- EXISTING SOILS WITHIN THE BUILDING PAD SHALL BE IMPROVED AS DESCRIBED IN THE FOUNDATION NOTES ON SG.1 AND THE REFERENCED GEOTECHNICAL REPORT. A FILL BLANKET SHALL BE PROVIDED UNDER PROPOSED SITE IMPROVEMENTS TO MITIGATE ISSUES ASSOCIATED WITH EXISTING EXPANSIVE SOILS. FOUNDATIONS SHALL BEAR ON IMPROVED GROUND AND HAVE BEEN DESIGNED FOR A NET ALLOWABLE BEARING PRESSURE OF 2,500 PSF.
- TOP OF GRADE BEAM ELEVATION INDICATED THUS [...] IN PLAN.
- SEE DRAWINGS SG SERIES FOR ADDITIONAL NOTES, AND SS SERIES FOR TYPICAL DETAILS.

KEY PLAN



PRINCIPAL
David Keith
RESEARCH PLANNER

STRUCTURAL PRINCIPAL
PAUL CONSTANTINI, SE
STRUCTURAL ENGINEER
STEPHEN BARTAL

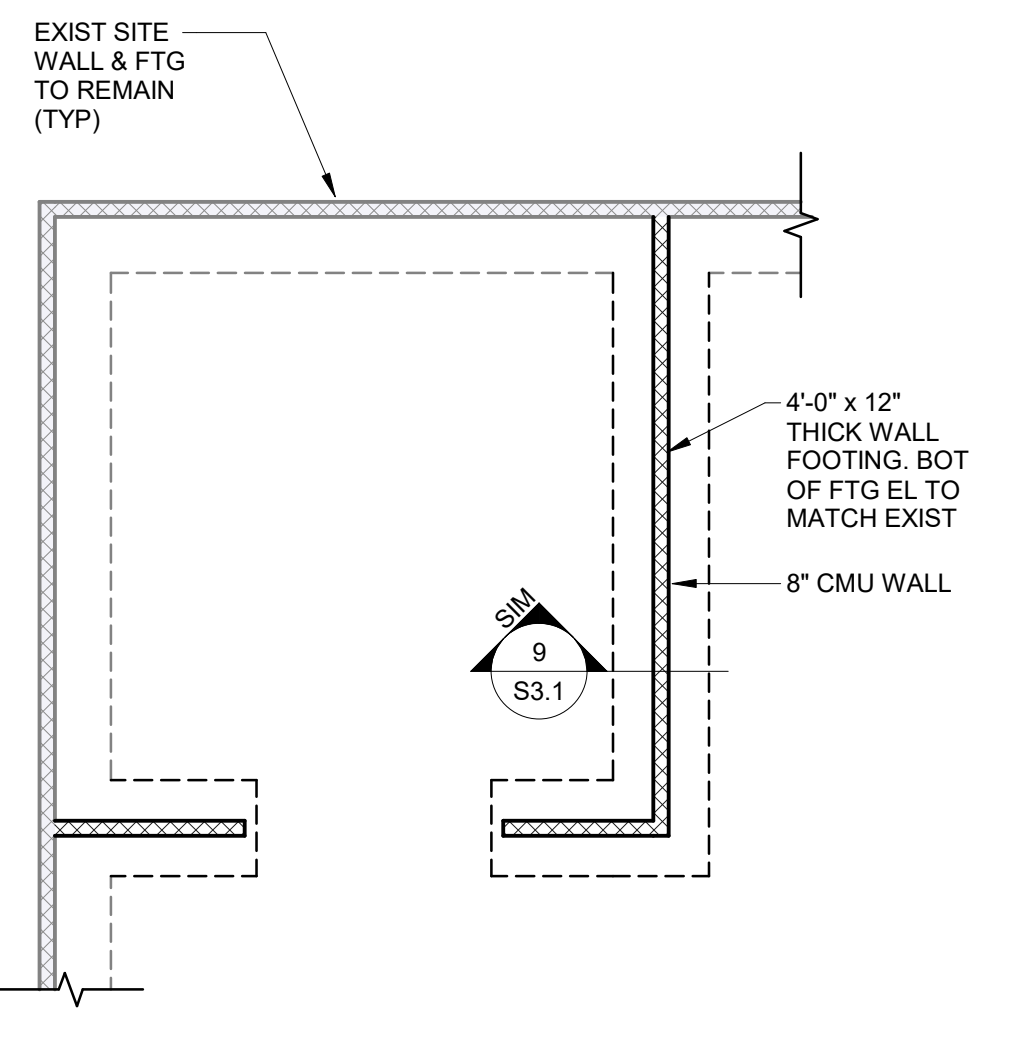
REVISIONS

NO.	BY	DESCRIPTION	DATE
D		ISSUED FOR GC BIDDING	11.08.2024
C			10.11.2024
B		ISSUED FOR OWNER'S REVIEW	09.26.2024
A		DESIGN DEVELOPMENT	05.24.2024

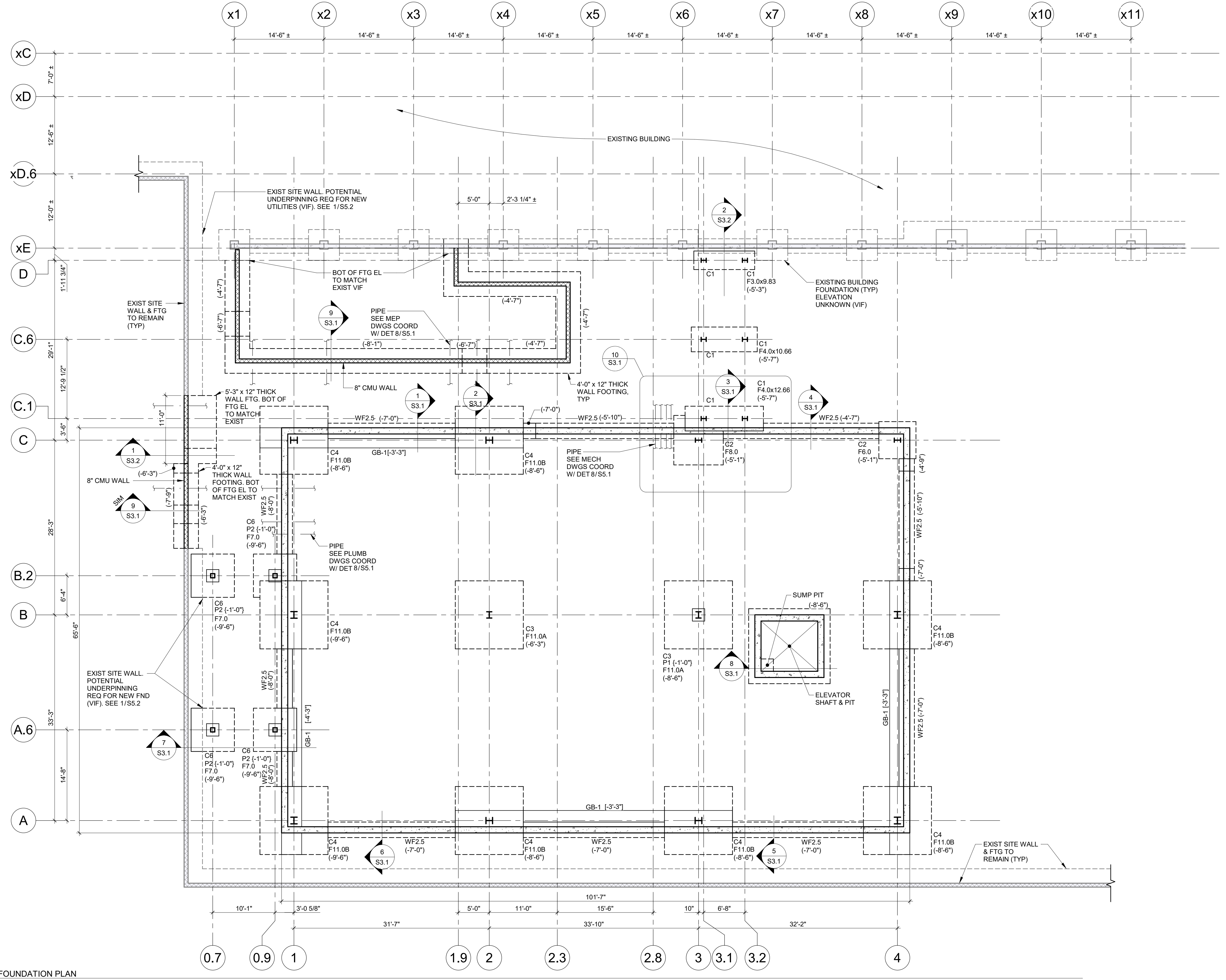
Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY: SGB DATE: 05.24.2024
PROJECT NO: 20230523 SCALE: As indicated

FLOOR/SECTION PHASE: FOUNDATION PLAN DRAWING NO.: CD S2.0



2 GENERATOR ENCLOSURE FOUNDATION PLAN
SCALE: 1/8" = 1'-0"



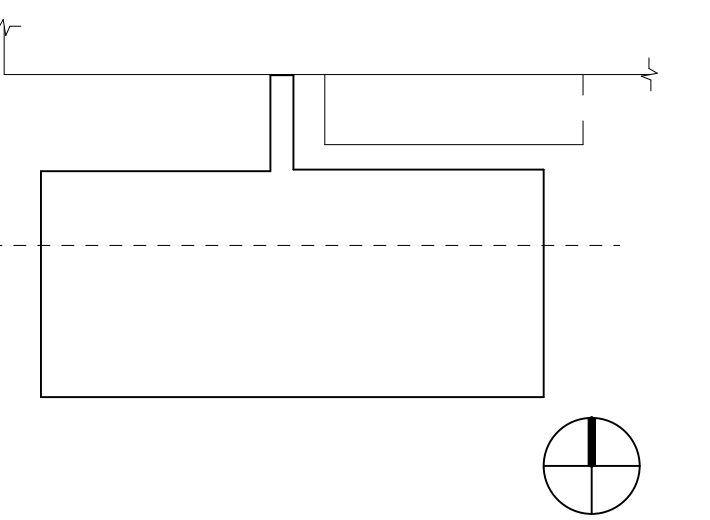
1 FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

11/11/2024 8:51:38 AM Autodesk Docs://20230523 - South Nevada Health District MLK BLDG - 3 LAB/20230523_S22_CENTRAL.rvt



- SLAB ON GRADE NOTES**
(UNLESS NOTED OTHERWISE)
1. TOP OF NEW BUILDING CONCRETE SLAB ON GRADE IS ELEVATION -3'-0" RELATIVE TO THE EXISTING BUILDING FLOOR SLAB ELEVATION WHICH IS DATUM 0'-0".
 2. EXISTING SOILS WITHIN THE BUILDING PAD SHALL BE IMPROVED AS DESCRIBED IN THE FOUNDATION NOTES ON SG.1 AND THE REFERENCED GEOTECHNICAL REPORT. A FILL BLANKET SHALL BE PROVIDED UNDER PROPOSED SITE IMPROVEMENTS TO MITIGATE ISSUES ASSOCIATED WITH EXISTING EXPANSIVE SOILS.
 3. SEE DRAWINGS SG SERIES FOR ADDITIONAL NOTES, AND SS SERIES FOR TYPICAL DETAILS.

KEY PLAN



PRINCIPAL
David Keith
RESEARCH PLANNER

STRUCTURAL PRINCIPAL
PAUL CONSTANTINI, SE
STRUCTURAL ENGINEER
STEPHEN BARTAL

REVISIONS

NO.	BY	DESCRIPTION	DATE
D		ISSUED FOR GC BIDDING	11.08.2024
C			10.11.2024
B		ISSUED FOR OWNER'S REVIEW	09.26.2024
A		DESIGN DEVELOPMENT	05.24.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY _____ SGB DATE 05.24.2024

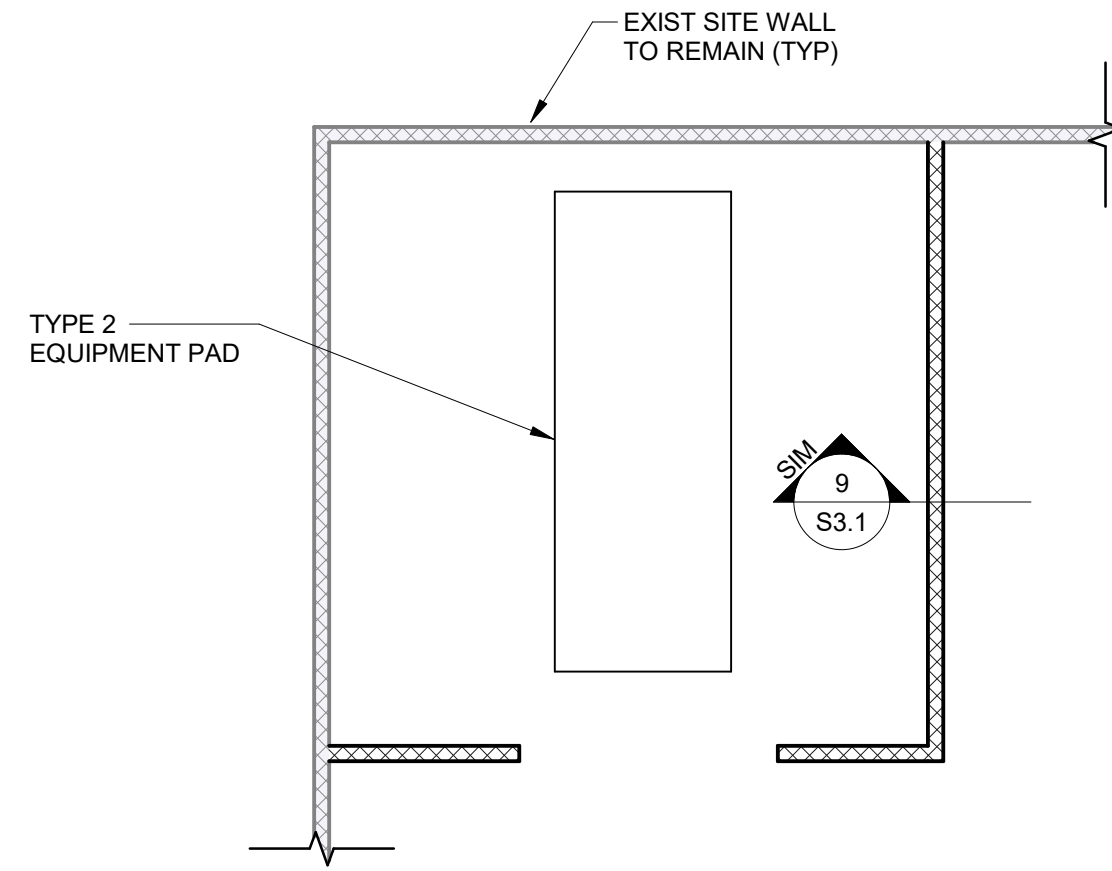
PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME _____

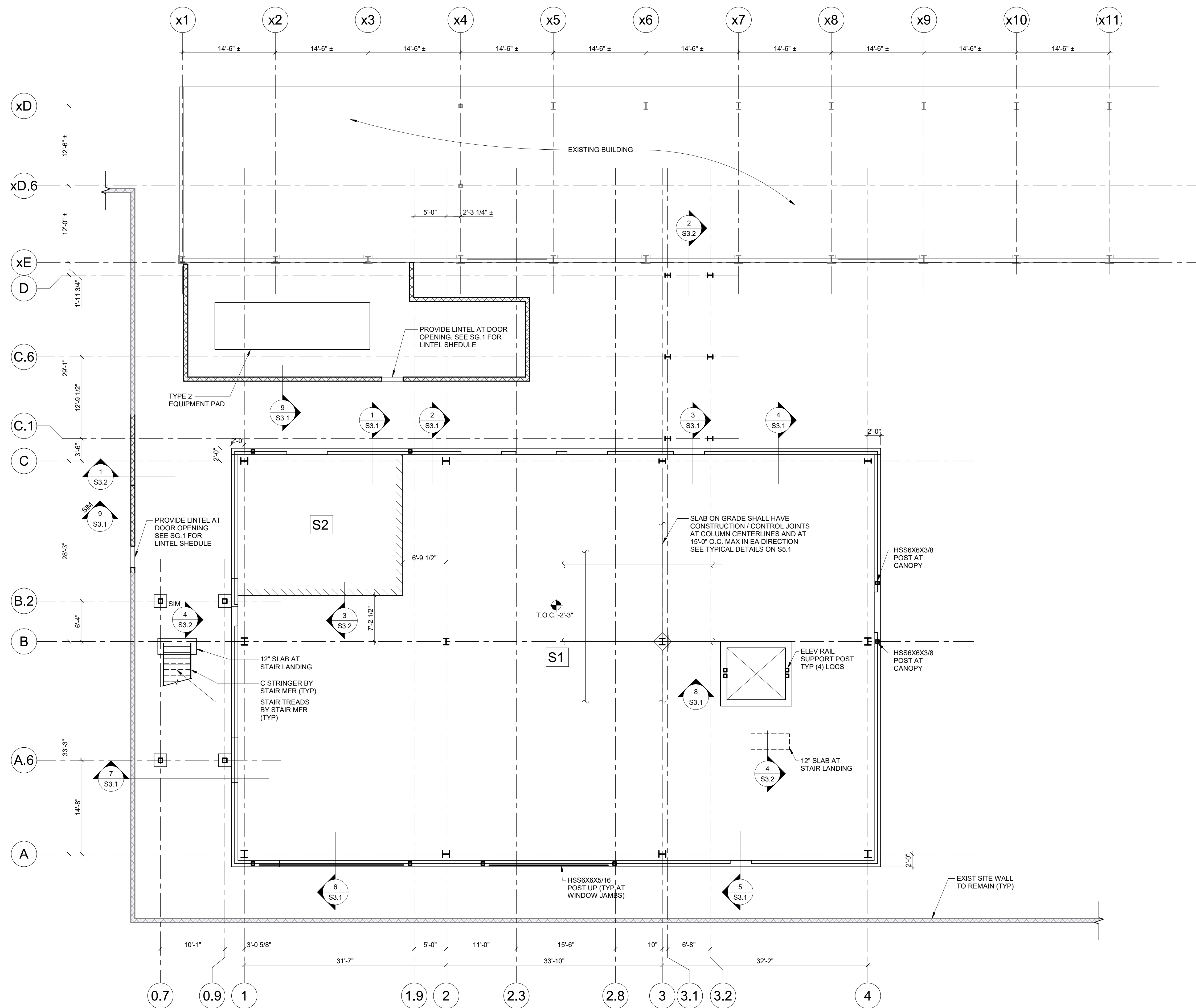
SLAB ON GRADE PLAN

FLOOR/SECTION PHASE _____ DRAWING NO. _____

CD S2.1



2 GENERATOR ENCLOSURE SLAB ON GRADE PLAN
SCALE: 1/8" = 1'-0"



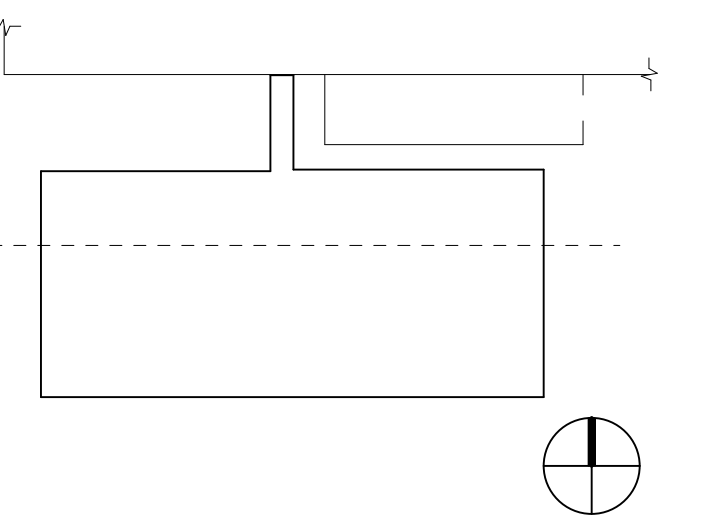
1 SLAB ON GRADE PLAN
SCALE: 1/8" = 1'-0"

NOT FOR CONSTRUCTION



- STRUCTURAL FRAMING NOTES**
(UNLESS NOTED OTHERWISE)
- TOP OF FLOOR SLAB ELEVATION +13'-9" ABOVE DATUM. TOP OF STEEL ELEVATION +13'-3 3/4". ELEVATIONS INDICATED THUS (s) ARE RELATIVE TO +13'-3 3/4".
 - TEXT INDICATED THUS [] IN PLAN INDICATES THE NUMBER OF EQUALLY SPACED 3/4-INCH DIAMETER x 4-INCH TYP. LONG HEADED SHEAR STUDS WELDED TO THE TOP FLANGE ALONG CENTERLINE OF BEAMS.
 - PROVIDE REDUCED BEAM SECTION SEISMIC MOMENT CONNECTIONS AT ALL BEAM TO COLUMN JOINTS INDICATED THUS = IN PLAN. SEE RBS DETAIL SHEET FOR MORE INFORMATION.
 - COORDINATE SIZE AND LOCATION OF ALL FLOOR OPENINGS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND TYPICAL DETAILS. AREAS INDICATED THUS (M) ARE DESIGNATED MECHANICAL/ELECTRICAL/PLUMBING CHASE AREAS. AREA TO RECEIVE FULL CONCRETE SLAB. MECHANICAL/ELECTRICAL/PLUMBING CONTRACTOR TO PENETRATE SLAB AS REQUIRED AND FRAME OPENINGS IN ACCORDANCE WITH TYPICAL DETAIL 19/SS-3.
 - BEAM END REACTIONS SHOWN ON PLAN ARE FACTORED LOADS. ALL BEAMS WITH NO END REACTIONS SHOWN SHALL BE DESIGNED FOR A MINIMUM FACTORED LOAD OF 15 KIPS.
 - SEE DRAWINGS SG SERIES FOR ADDITIONAL NOTES. AND S5 SERIES FOR TYPICAL DETAILS.
 - W12 DENOTES W12X19.

KEY PLAN



PRINCIPAL
David Keith
RESEARCH PLANNER

STRUCTURAL PRINCIPAL
PAUL CONSTANTINI, SE
STRUCTURAL ENGINEER
STEPHEN BARTAL

REVISIONS

NO.	BY	DESCRIPTION	DATE
D		ISSUED FOR GC BIDDING	11.08.2024
C			10.11.2024
B		ISSUED FOR OWNER'S REVIEW	09.26.2024
A		DESIGN DEVELOPMENT	05.24.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY: SGB DATE: 05.24.2024

PROJECT NO: 20230523 SCALE: As indicated

DRAWING NAME: SECOND FLOOR FRAMING PLAN

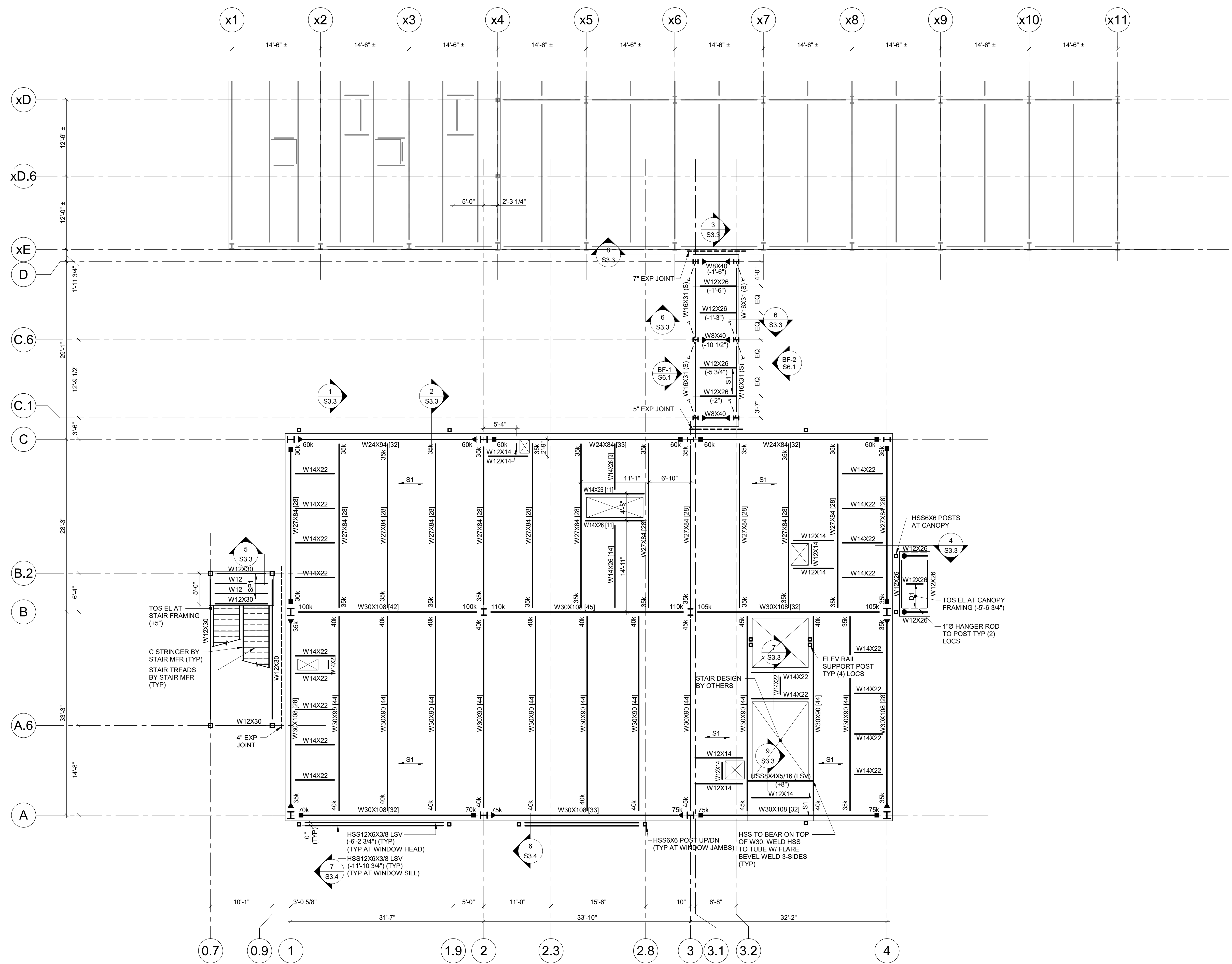
FLOOR/SECTION PHASE: DRAWING NO.

FLOOR/SECTION PHASE: DRAWING NO.

FLOOR/SECTION PHASE: DRAWING NO.

FLOOR/SECTION PHASE: DRAWING NO.

FLOOR/SECTION PHASE: DRAWING NO.



1 SECOND FLOOR FRAMING PLAN
SCALE: 1/8" = 1'-0"

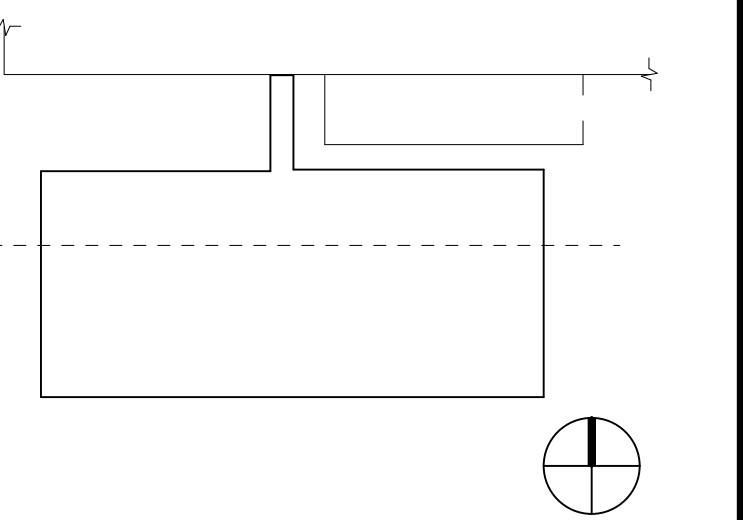
NOT FOR CONSTRUCTION

CD S2.2



- STRUCTURAL FRAMING NOTES**
(UNLESS NOTED OTHERWISE)
- TOP OF CONCRETE SLAB ELEVATION +29'-0" ABOVE DATUM. TOP OF STEEL ELEVATION +29'-4 1/2". ELEVATIONS INDICATED THUS (±) ARE RELATIVE TO +29'-4 1/2".
 - TEXT INDICATED THUS [] IN PLAN INDICATES THE NUMBER OF EQUALLY SPACED 3/4-INCH DIAMETER x 4-INCH TYP. LONG HEADED SHEAR STUDS WELDED TO THE TOP FLANGE ALONG CENTERLINE OF BEAMS.
 - PROVIDE REDUCED BEAM SECTION SEISMIC MOMENT CONNECTIONS AT ALL BEAM TO COLUMN JOINTS INDICATED THUS [] IN PLAN. SEE RBS DETAIL SHEET FOR MORE INFORMATION.
 - BEAMS INDICATED THUS (S) ARE SLOPED. BEAMS FRAME FLUSH TOP UNLESS NOTED OTHERWISE.
 - COORDINATE DIMENSIONS INDICATED THUS (°) WITH MECHANICAL EQUIPMENT PURCHASED.
 - COORDINATE SIZE AND LOCATION OF ALL OPENINGS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS AND TYPICAL DETAILS.
 - BEAM END REACTIONS SHOWN ON PLAN ARE FACTORED LOADS. ALL BEAMS WITH NO END REACTIONS SHOWN SHALL BE DESIGNED FOR A MINIMUM FACTORED LOAD OF 15 KIPS.
 - SEE DRAWINGS SG SERIES FOR ADDITIONAL NOTES, AND S5 SERIES FOR TYPICAL DETAILS.
 - W14 DENOTES W14X22, W12 DENOTES W12X19, C8 DENOTES C8X11.5.

KEY PLAN



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NO.	BY	DESCRIPTION	DATE
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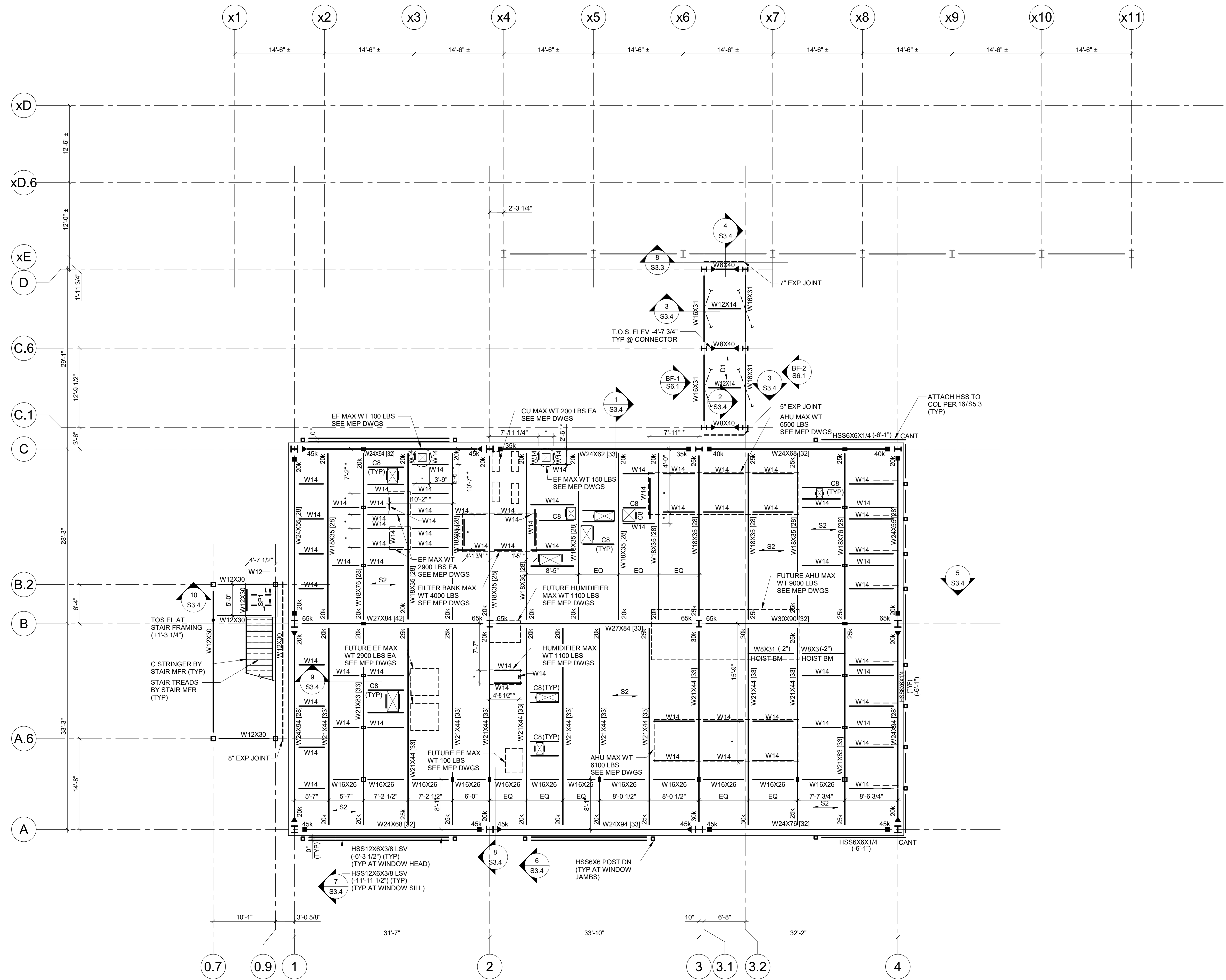
Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY: SGB DATE: 05.24.2024

PROJECT NO: 20230523 SCALE: As indicated

DRAWING NAME: ROOF FRAMING PLAN

FLOOR/SECTION PHASE: DRAWING NO. S2.3



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

NOT FOR CONSTRUCTION

CD S2.3

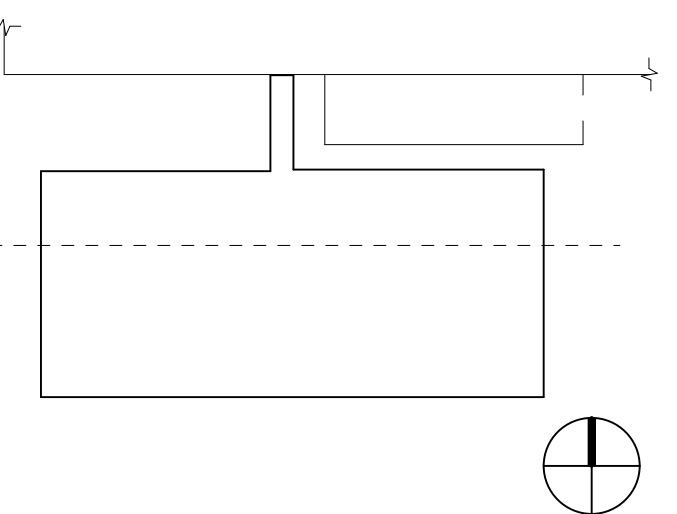
11/11/2024 8:51:54 AM Autodesk Docs://20230523 - South Nevada Health District MLK Bldg - 3-LAB/20230523_S22_CENTRAL.rvt



STRUCTURAL FRAMING NOTES

- (UNLESS NOTED OTHERWISE)
- 1. TOP OF STEEL ELEVATION +36'-9" ABOVE DATUM. ELEVATIONS INDICATED THUS (E) ARE RELATIVE TO +36'-9".
- 2. ALL STEEL THIS PLAN TO BE HOT-DIPPED GALVANIZED.
- 3. PROVIDE THERMAL BREAK PADS ON ALL POSTS CONNECTING TO ROOF FRAMING.
- 4. SEE DRAWINGS SG SERIES FOR ADDITIONAL NOTES, AND SS SERIES FOR TYPICAL DETAILS.

KEY PLAN



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PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME

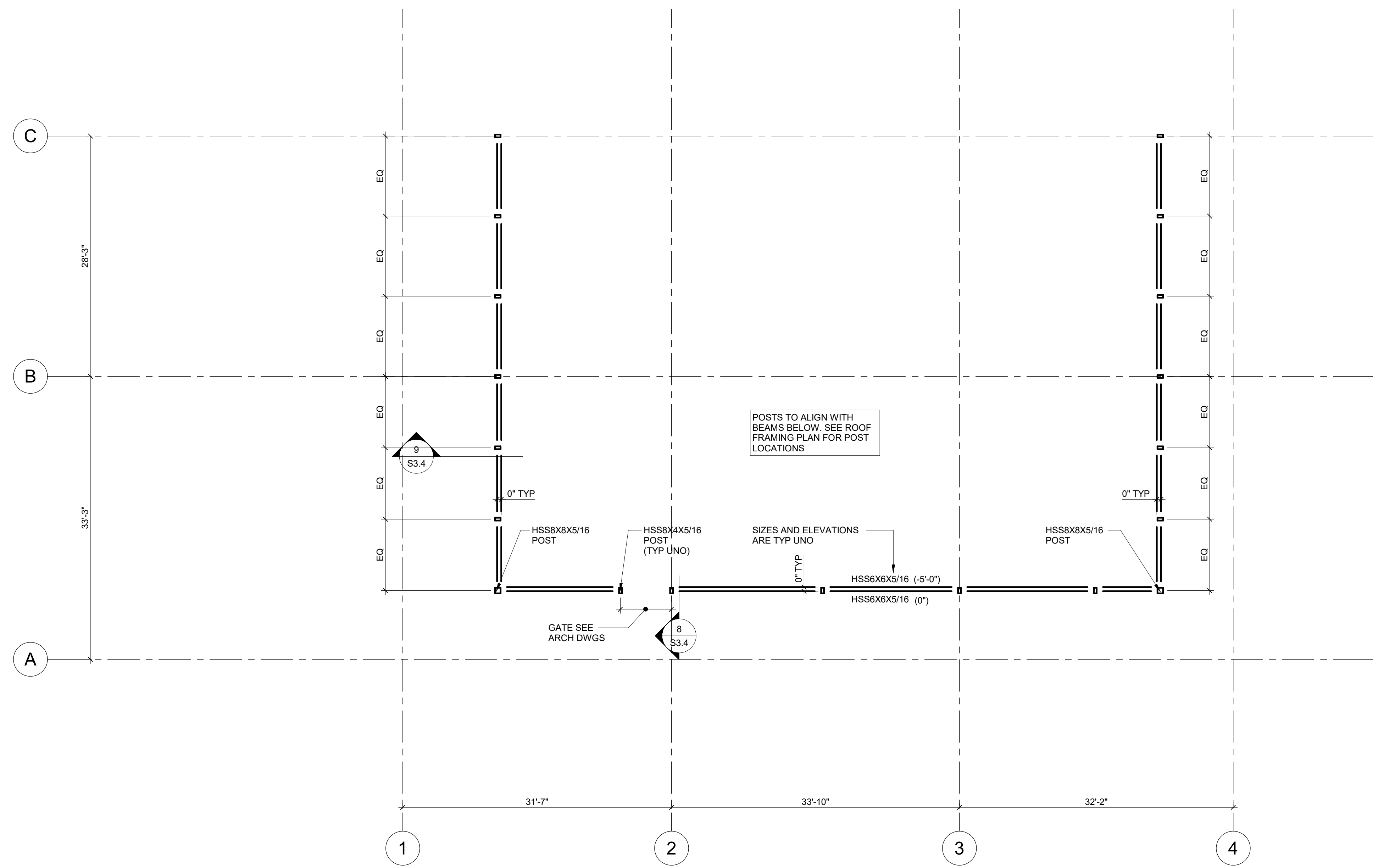
ROOF SCREEN FRAMING PLAN

FLOOR/SECTION PHASE DRAWING NO.

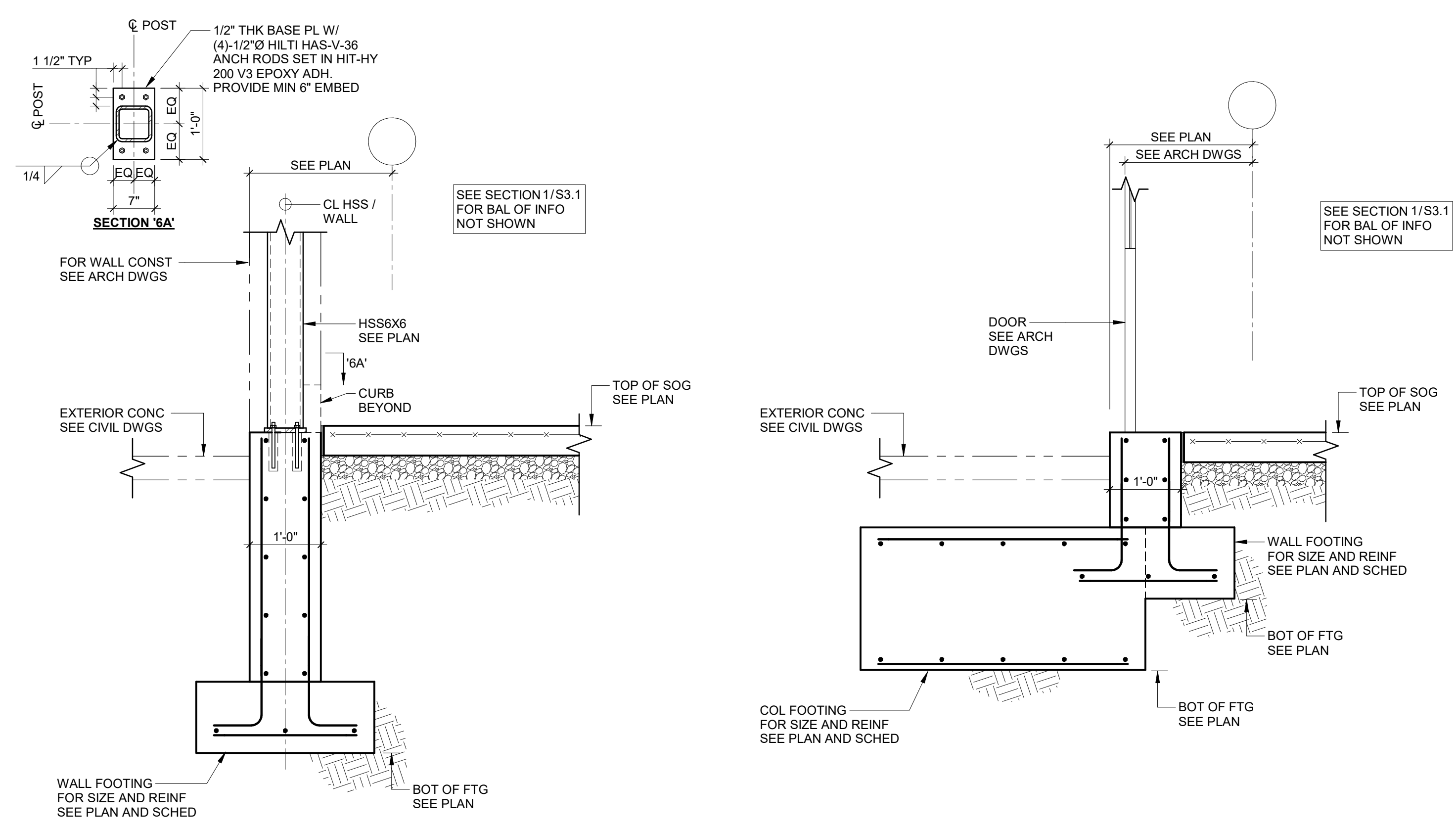
NOT FOR CONSTRUCTION

CD

S2.4

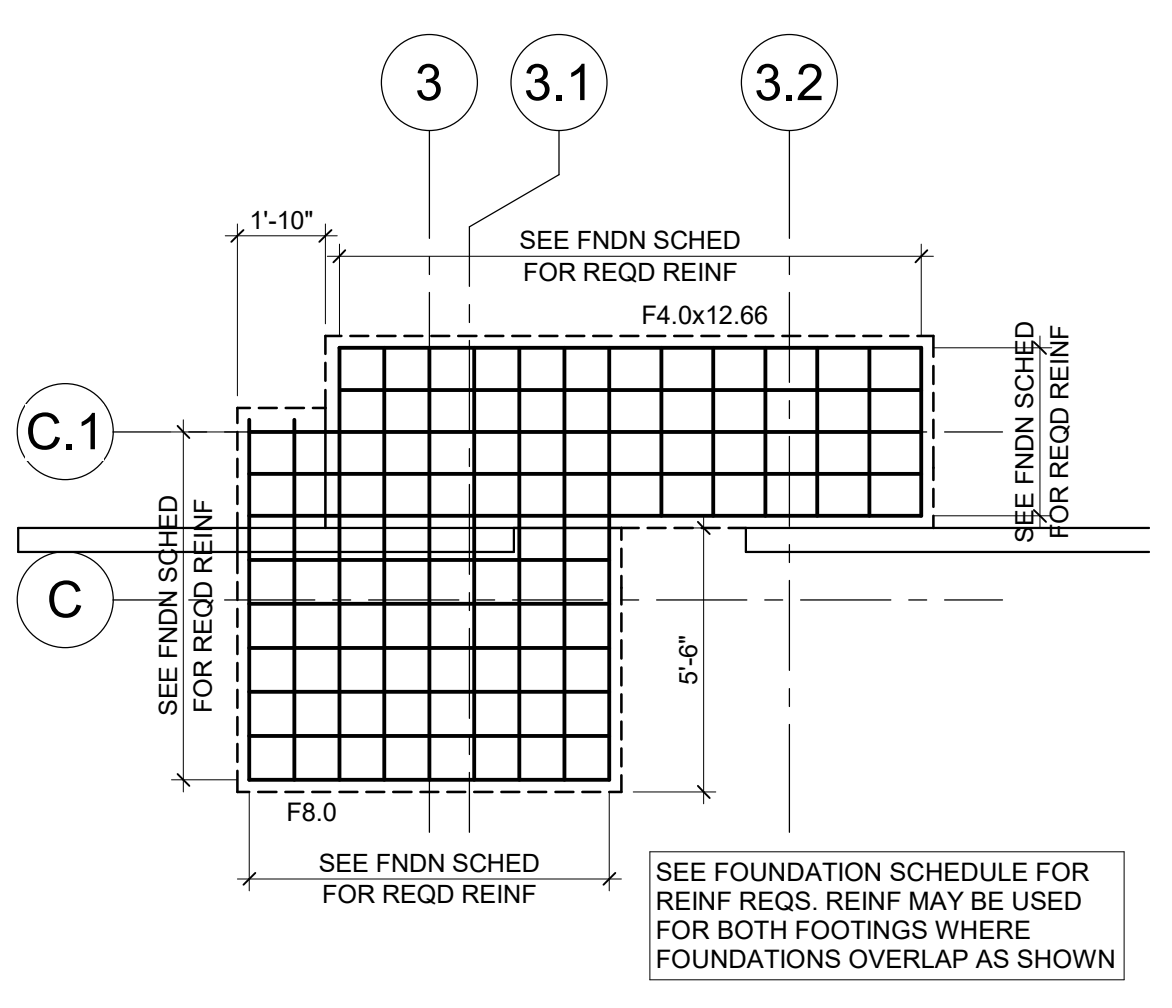


1 ROOF SCREEN FRAMING PLAN
SCALE: 1/8" = 1'-0"

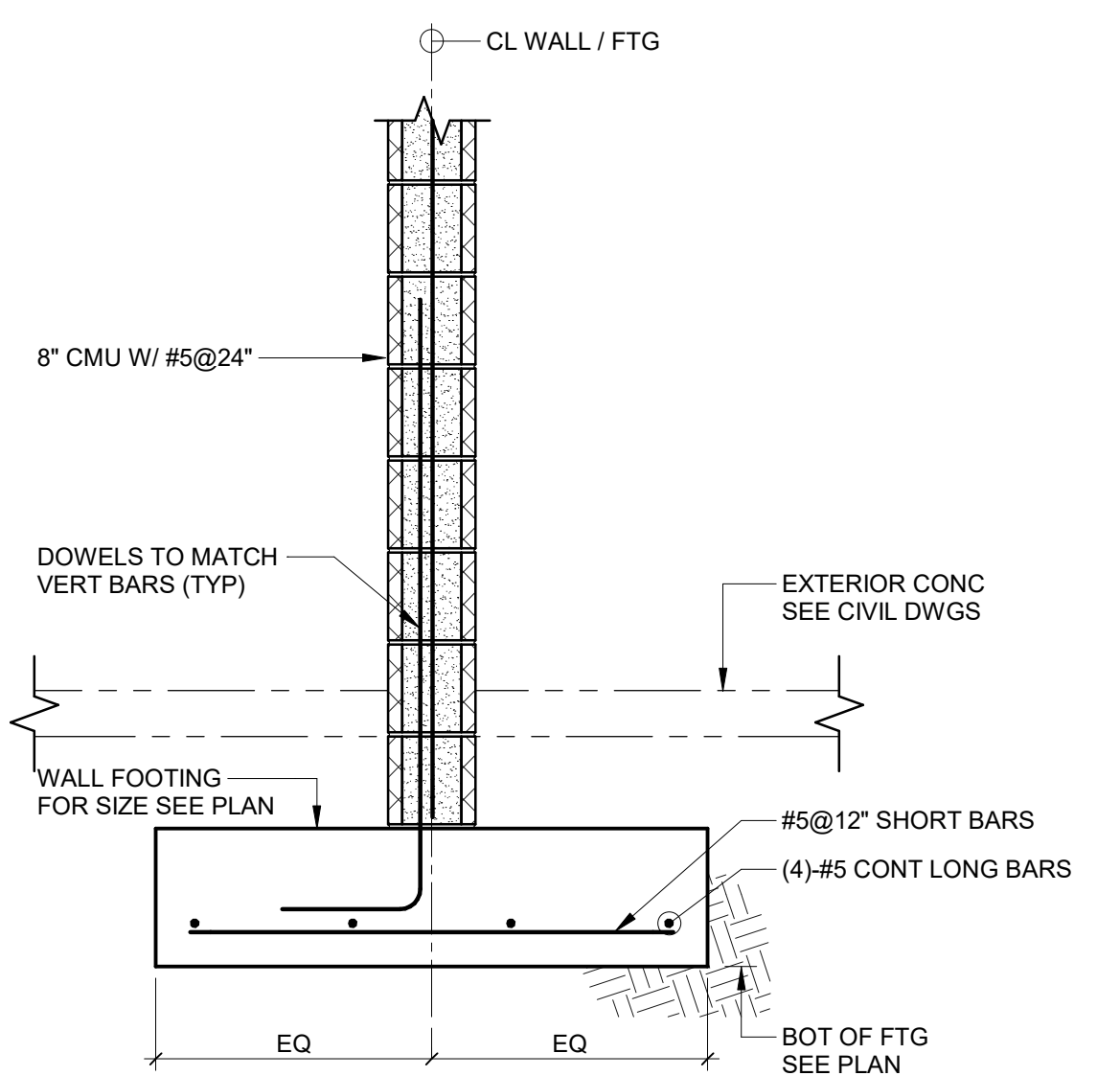


6 SECTION
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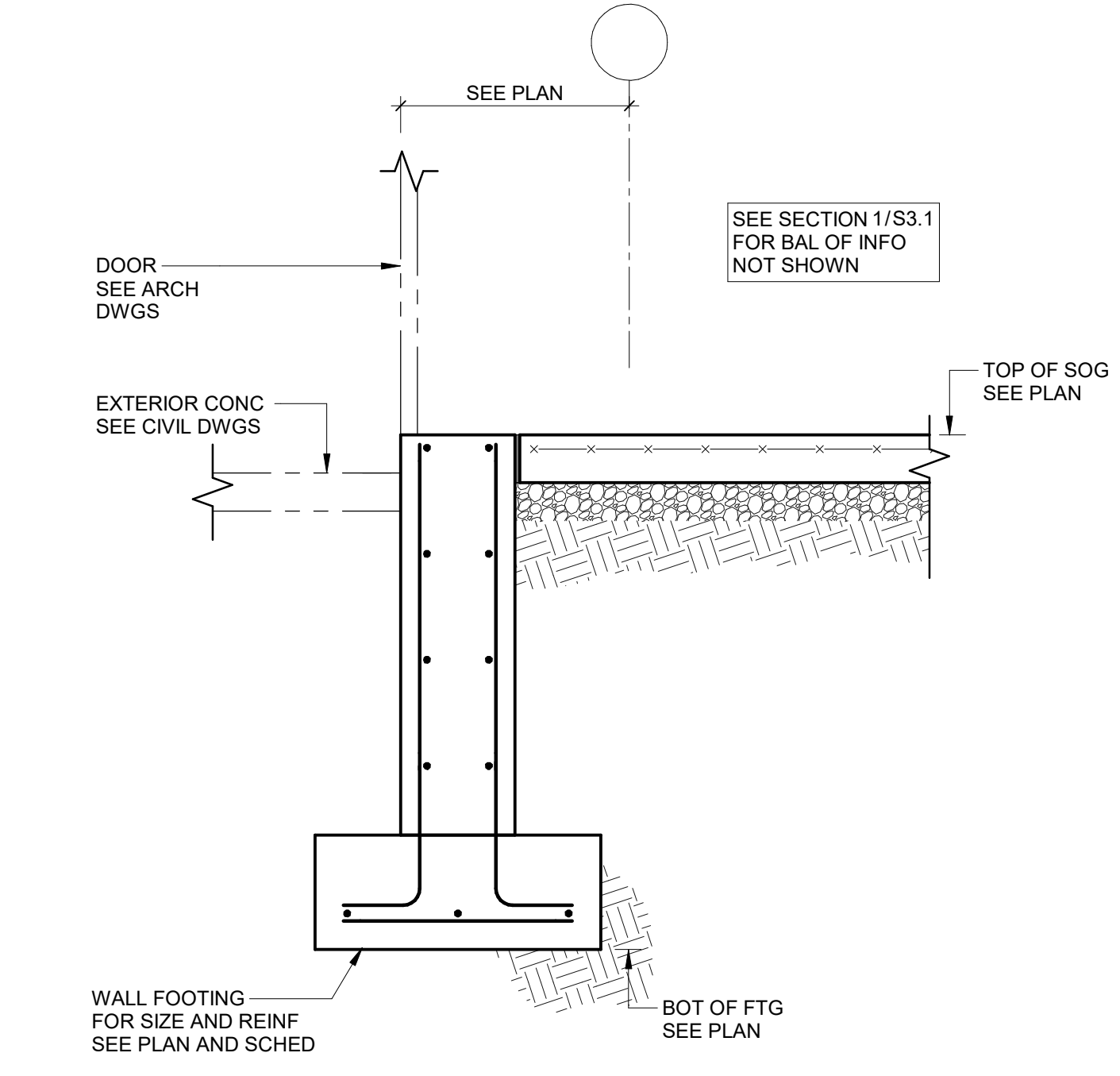
3 SECTION
SCALE: 3/4" = 1'-0"



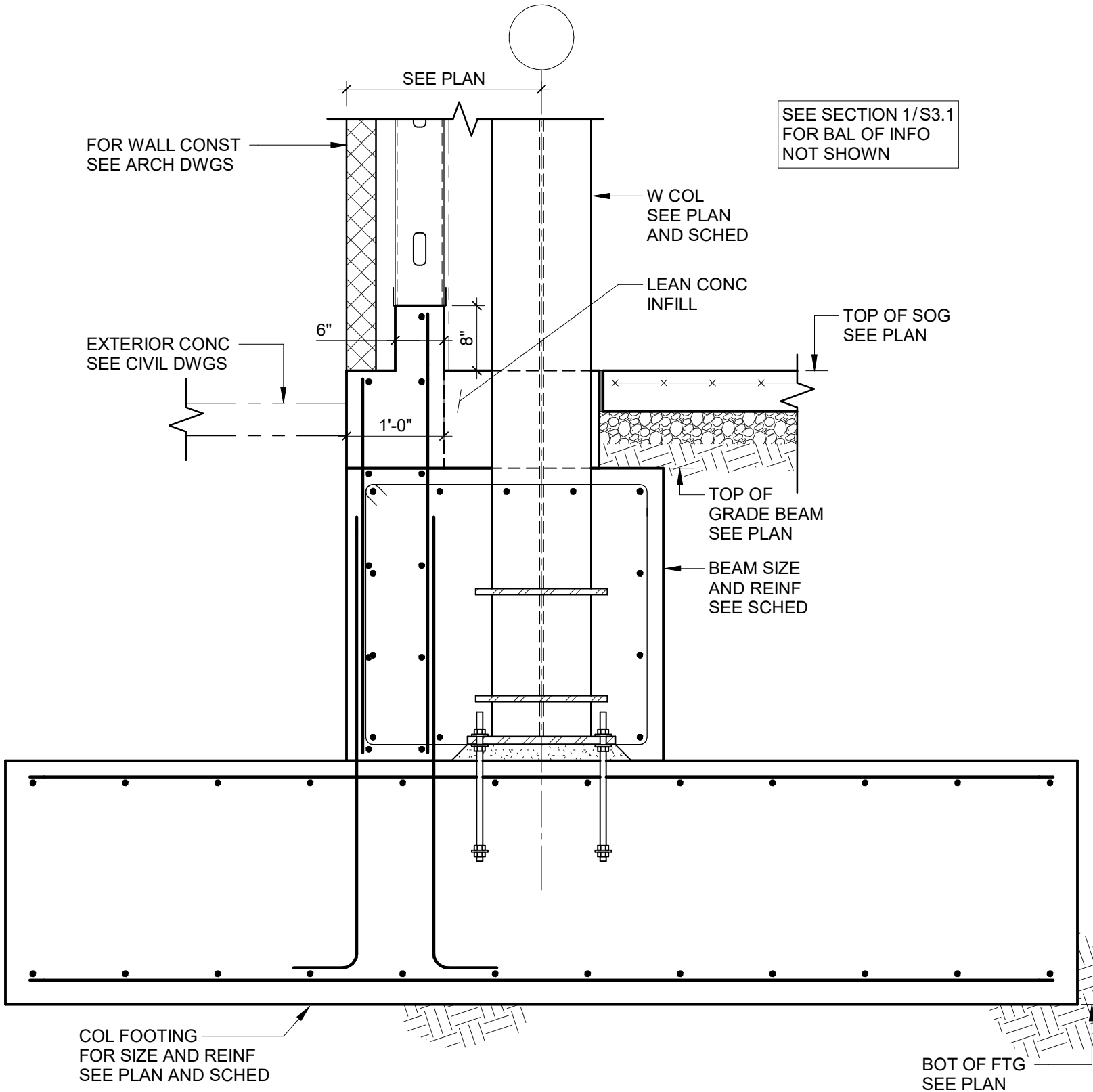
10 DETAIL
SCALE: 3/4" = 1'-0"



9 SECTION
SCALE: 3/4" = 1'-0"



5 SECTION
SCALE: 3/4" = 1'-0"



2 SECTION
SCALE: 3/4" = 1'-0"

KEY PLAN

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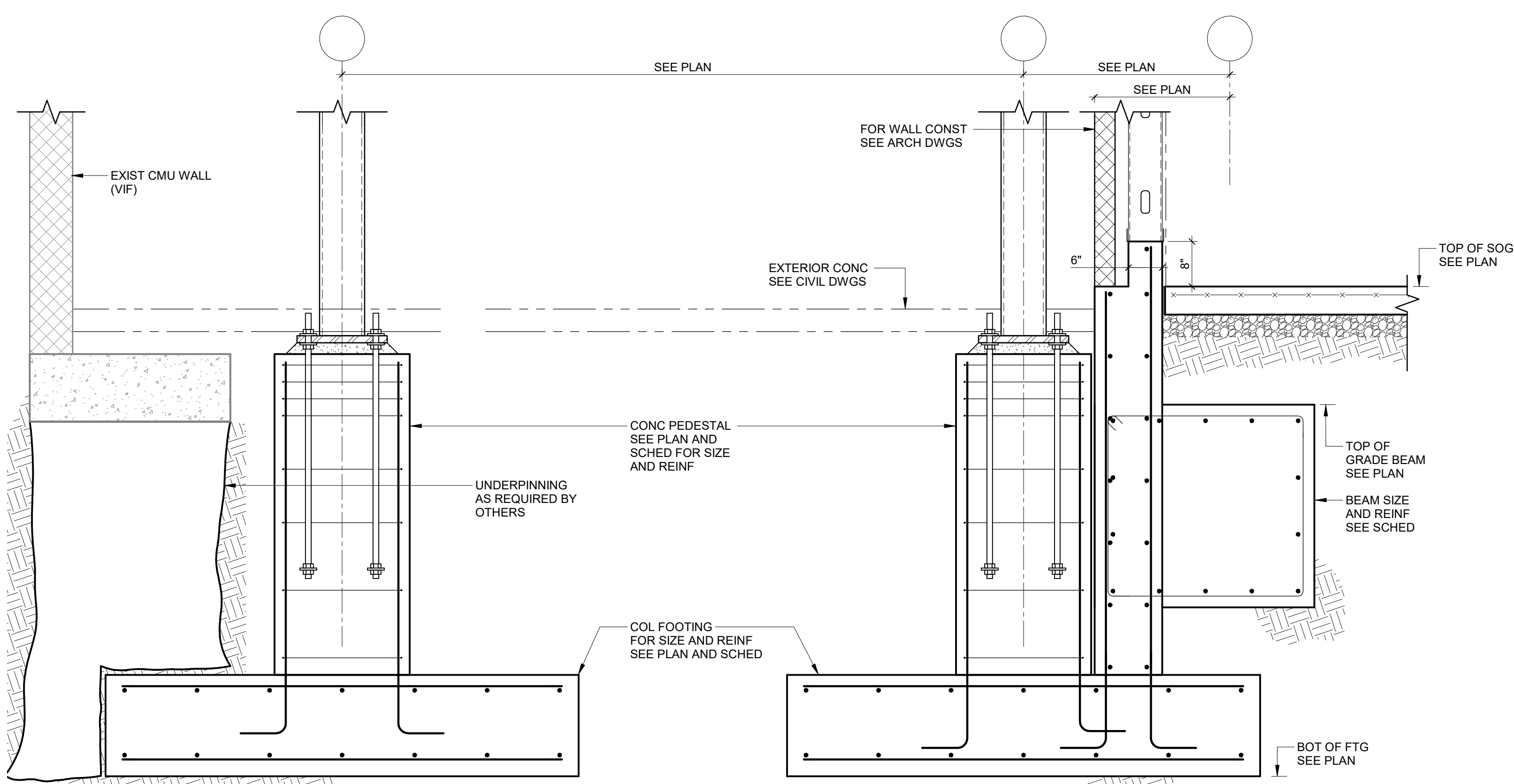
DRAWN BY _____ Author DATE 05.24.2024

PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME _____

FLOOR/SECTION PHASE _____ DRAWING NO. S3.1

NOT FOR CONSTRUCTION

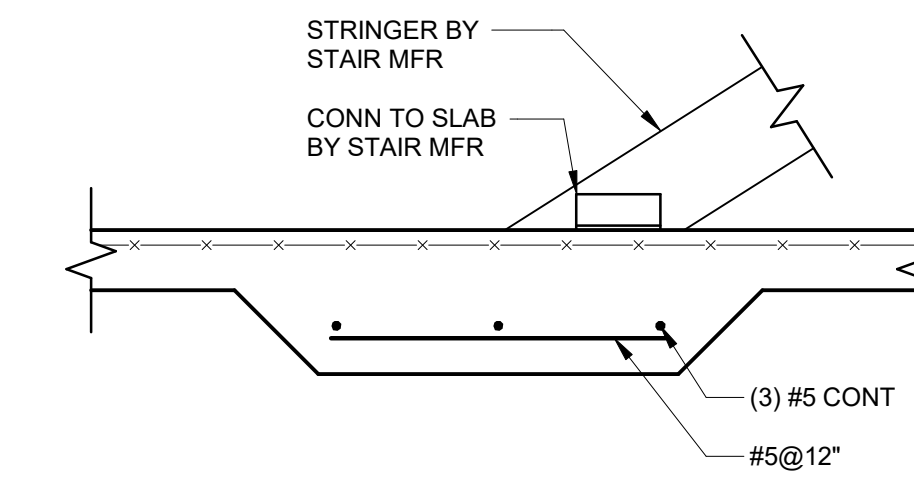


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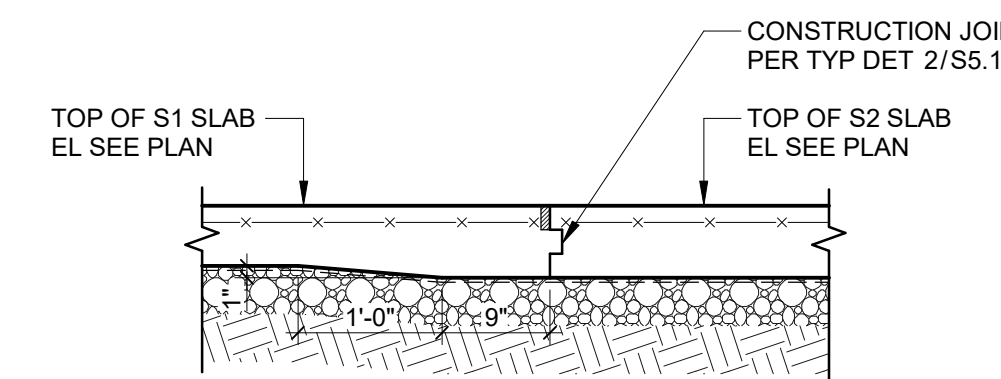
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1 SECTION
SCALE: 3/4" = 1'-0"

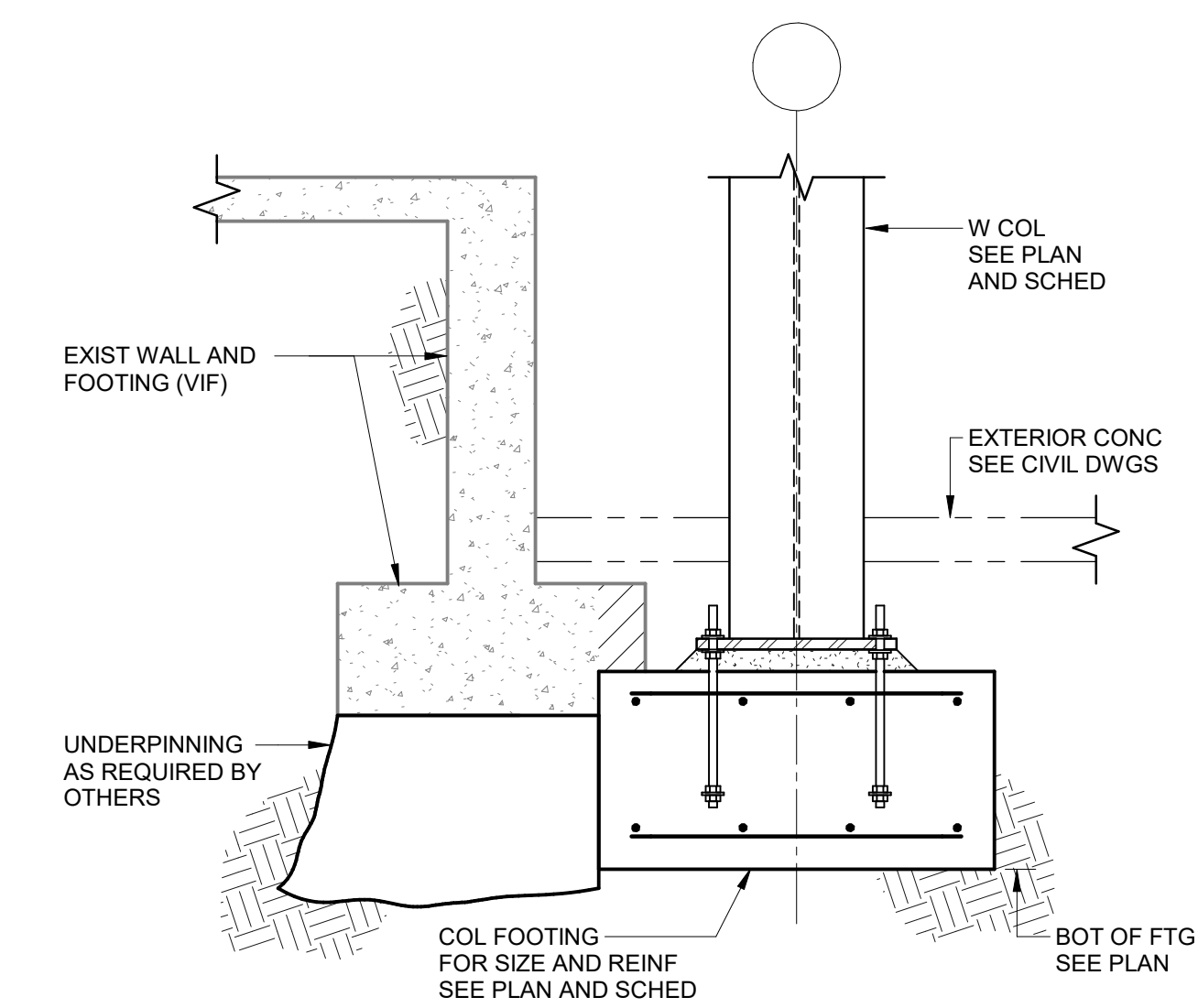
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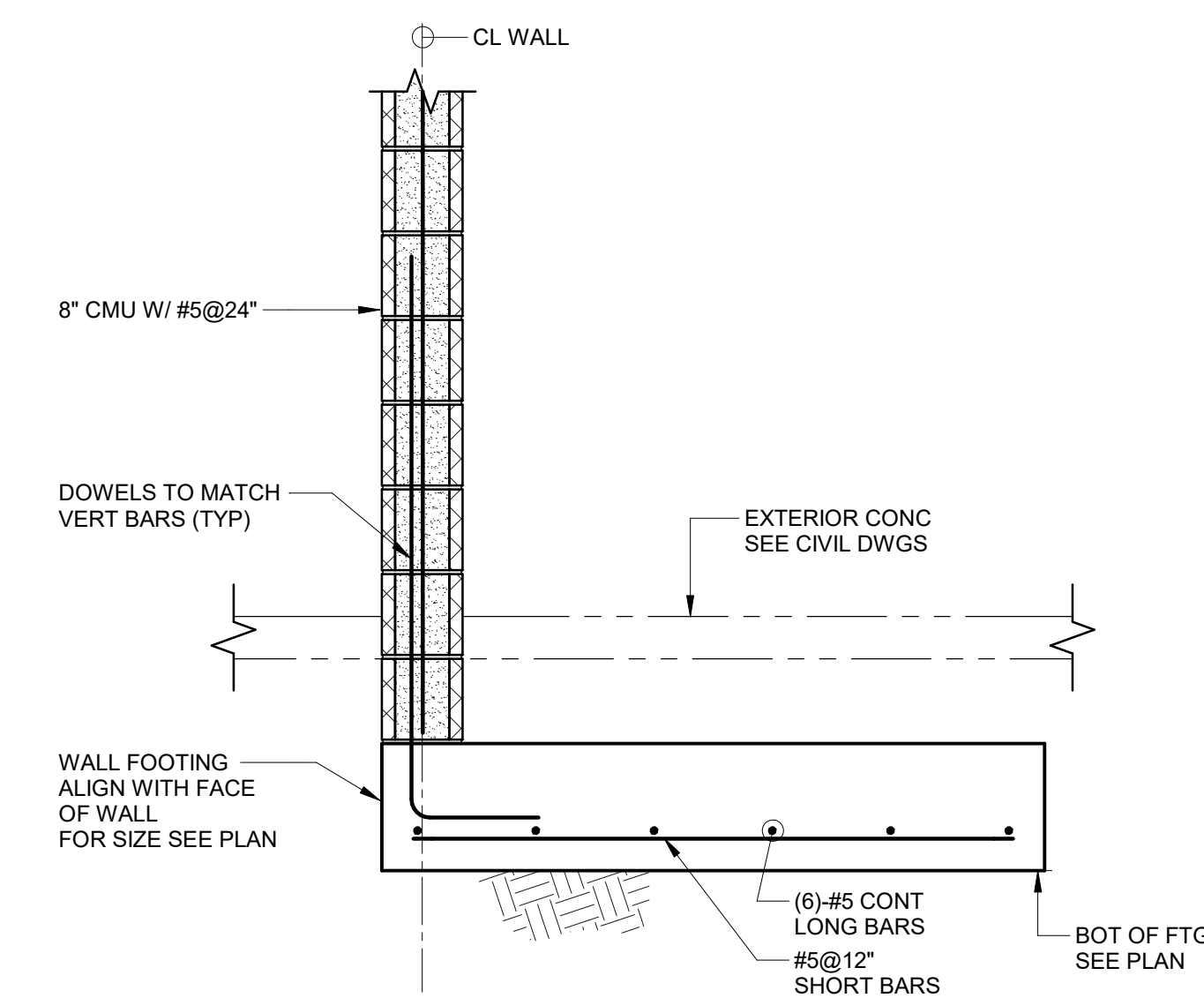
4 SECTION
SCALE: 3/4" = 1'-0"



3 SECTION
SCALE: 3/4" = 1'-0"



2 SECTION
SCALE: 3/4" = 1'-0"



1 SECTION
SCALE: 3/4" = 1'-0"

NOT FOR CONSTRUCTION

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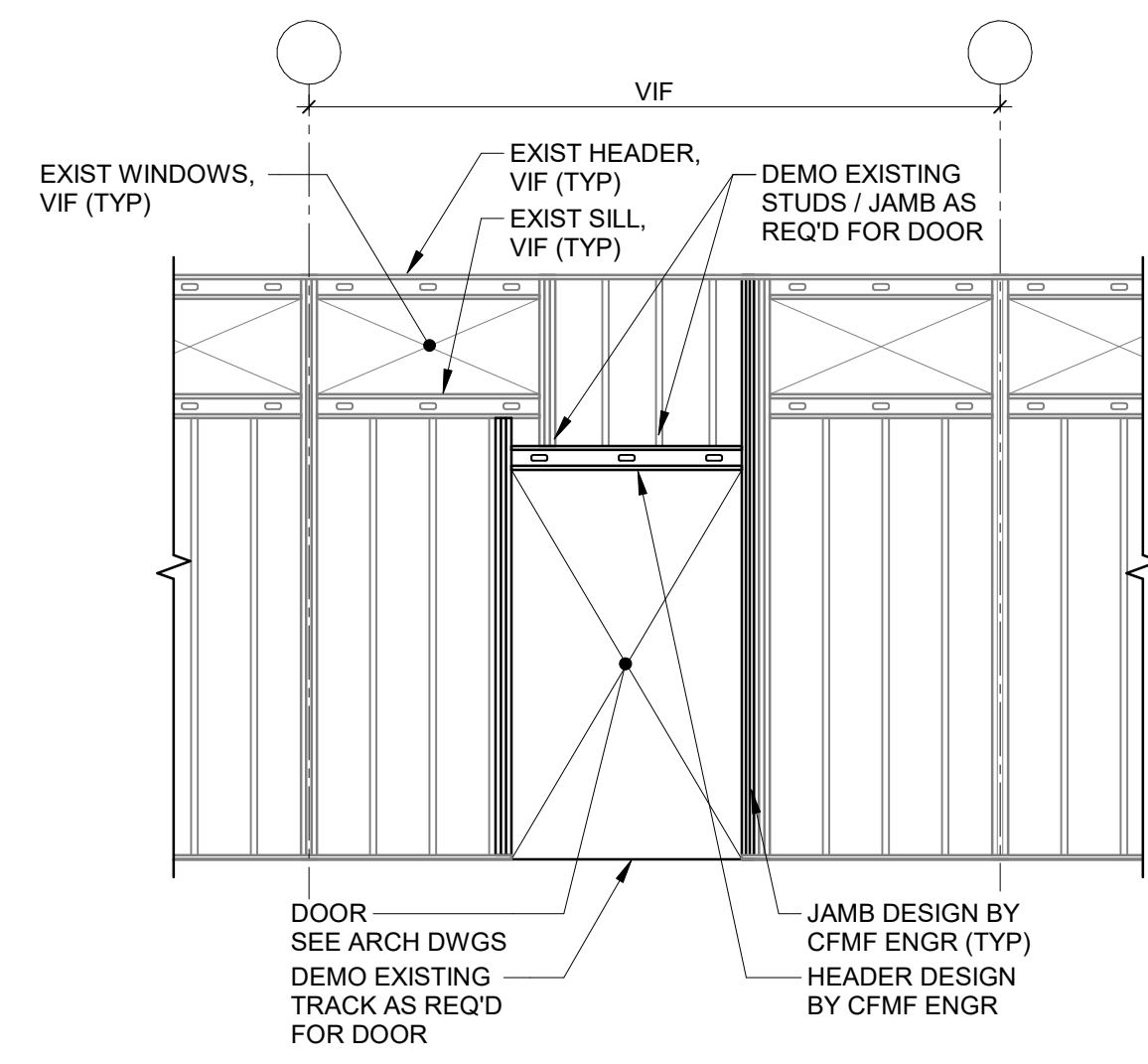
PROJECT NO. 20230523 SCALE 3/4" = 1'-0"

DRAWING NAME

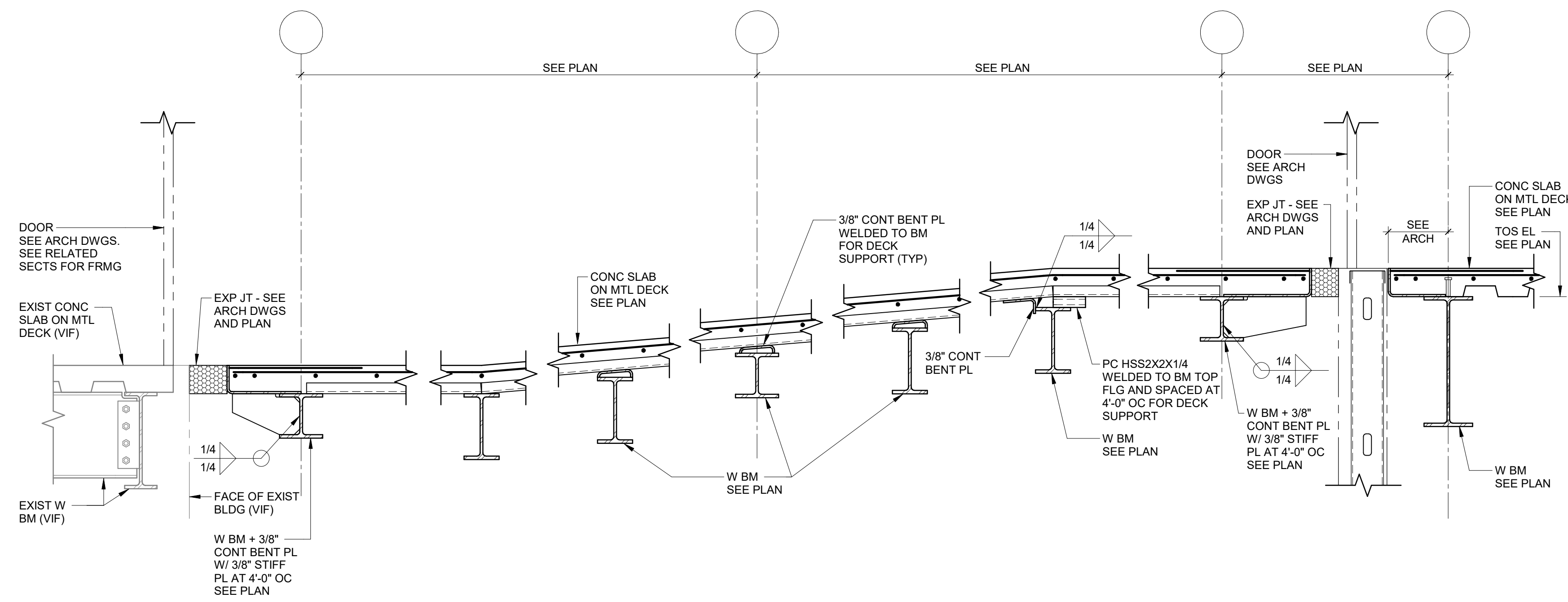
SECTIONS

FLOOR/SECTION PHASE DRAWING NO.

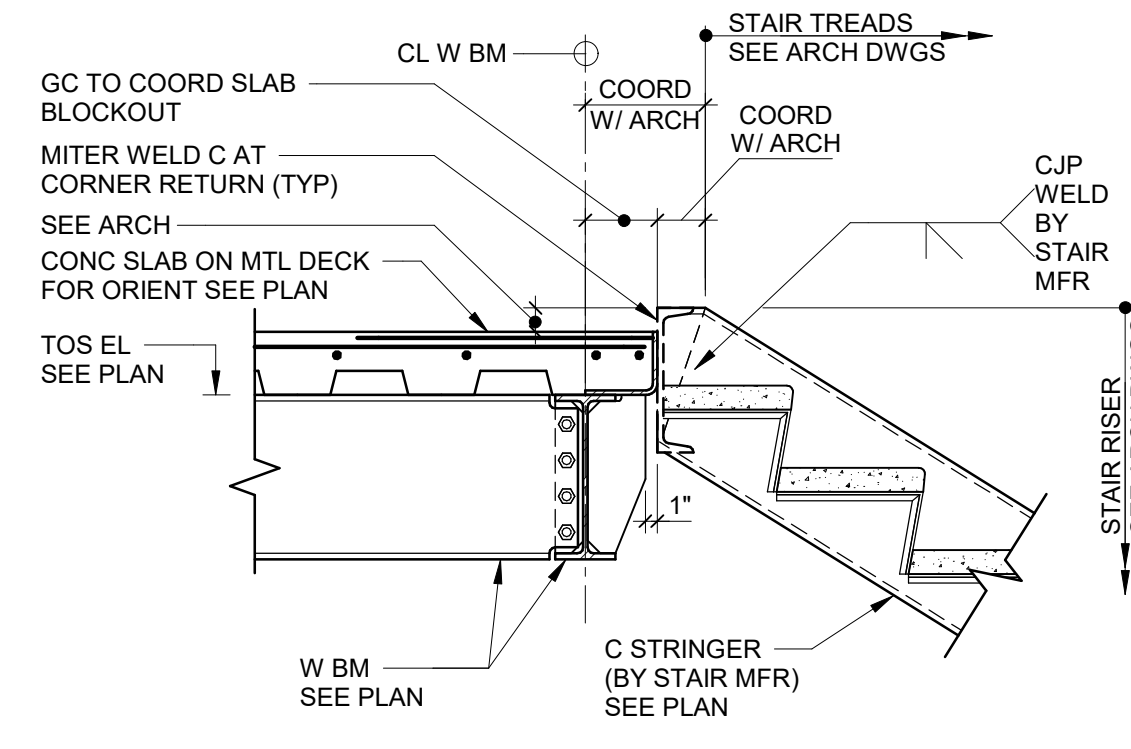
CD S3.2



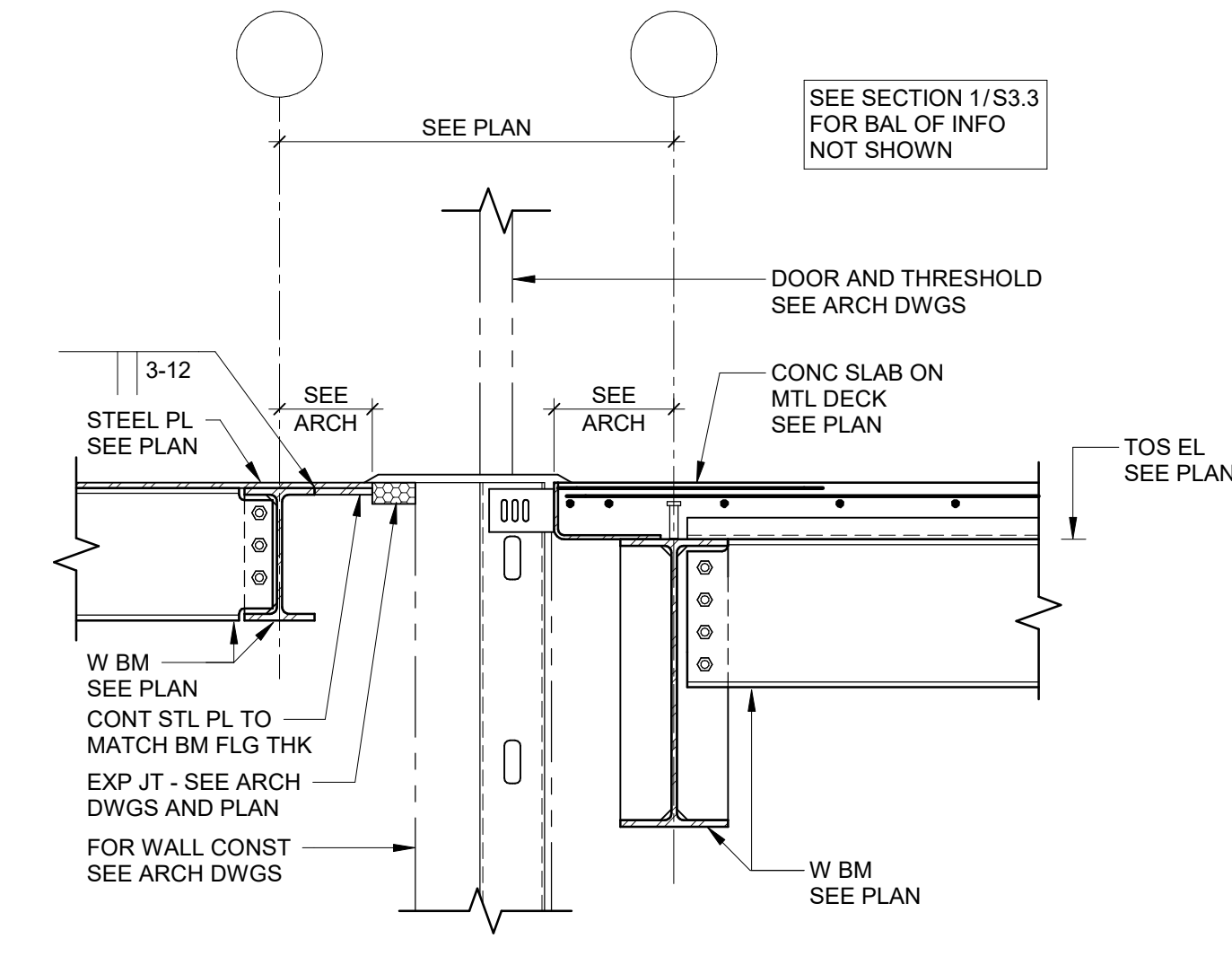
8 SECTION
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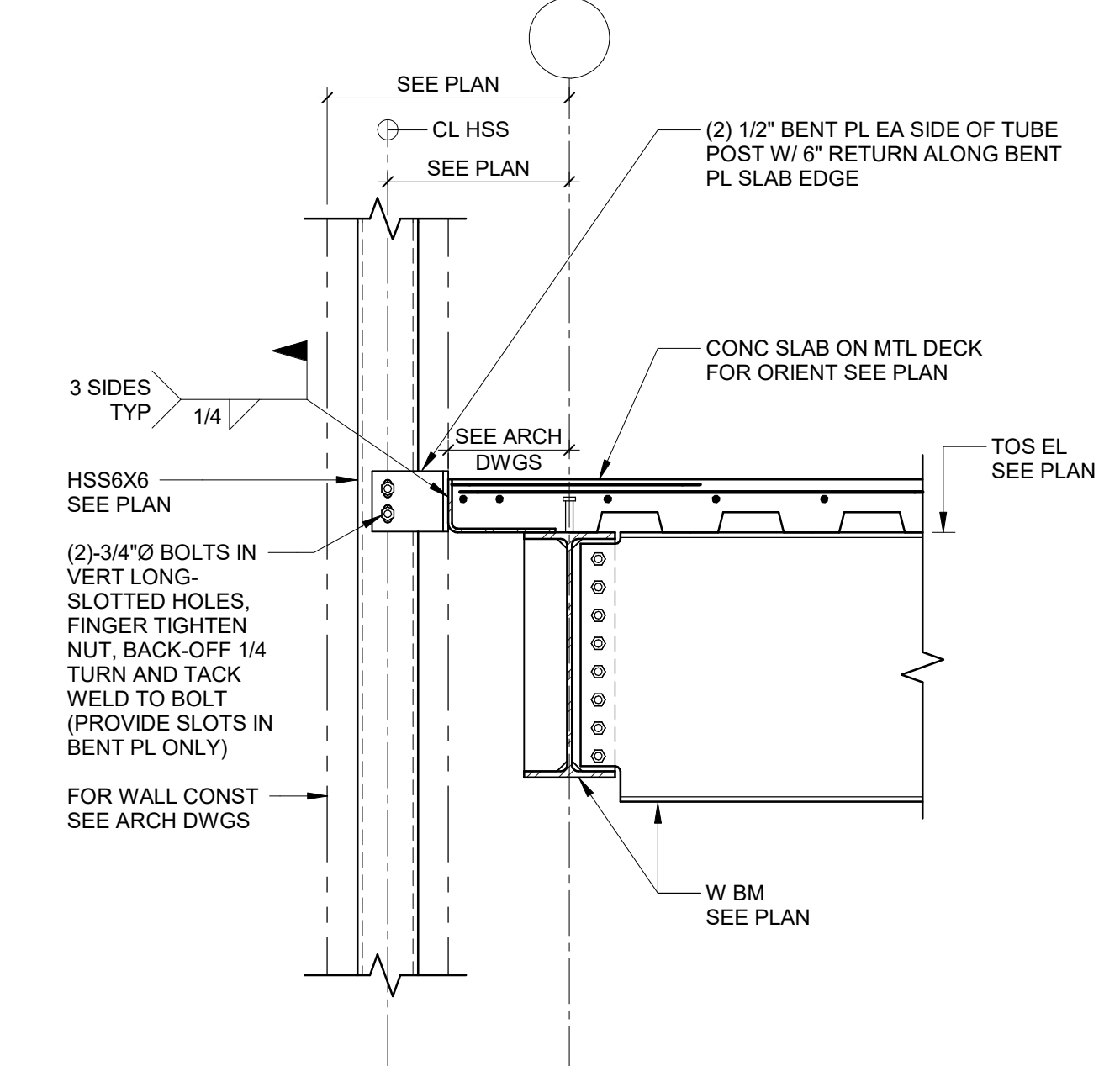
3 SECTION
SCALE: 3/4" = 1'-0"



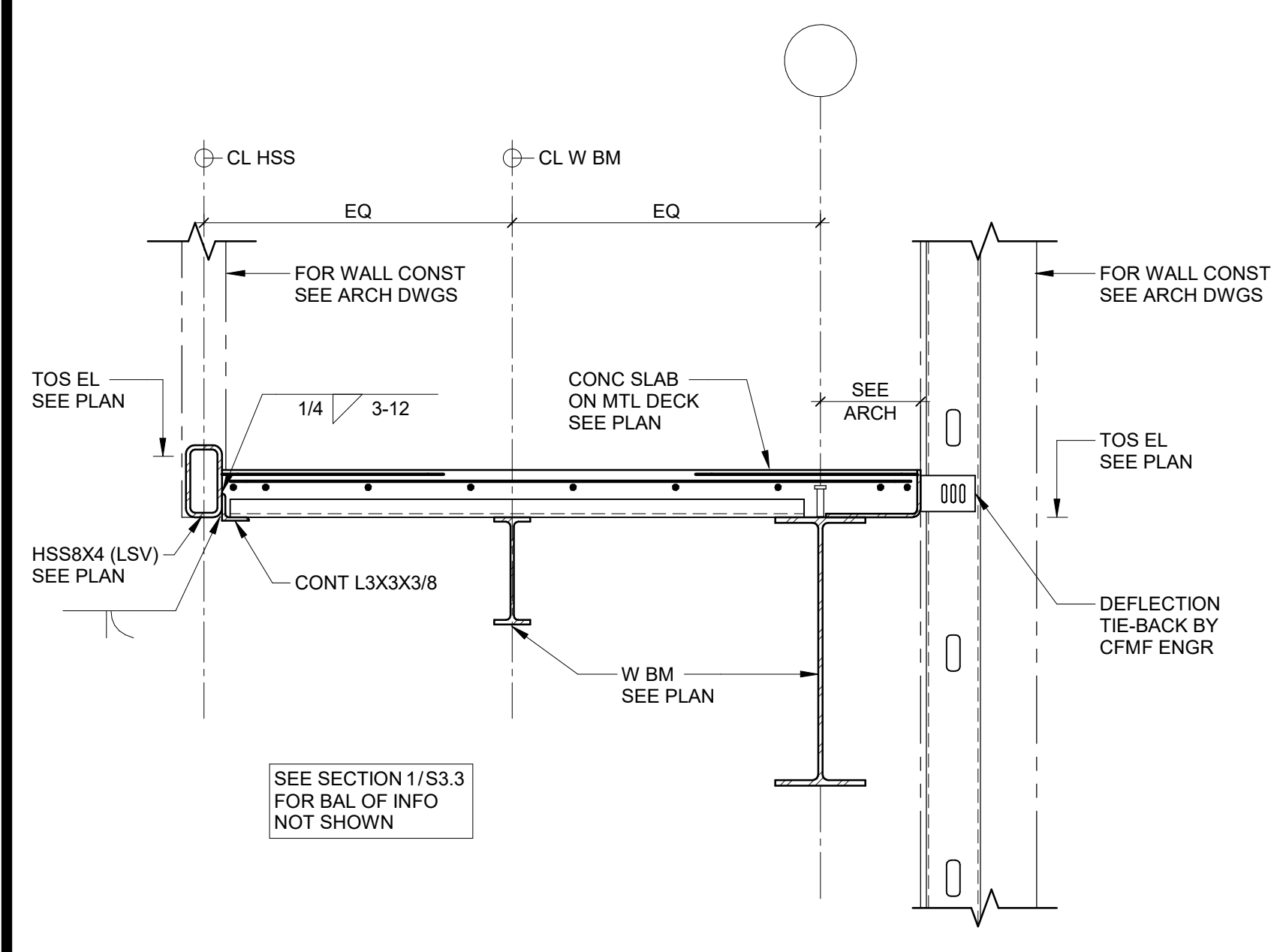
7 SECTION
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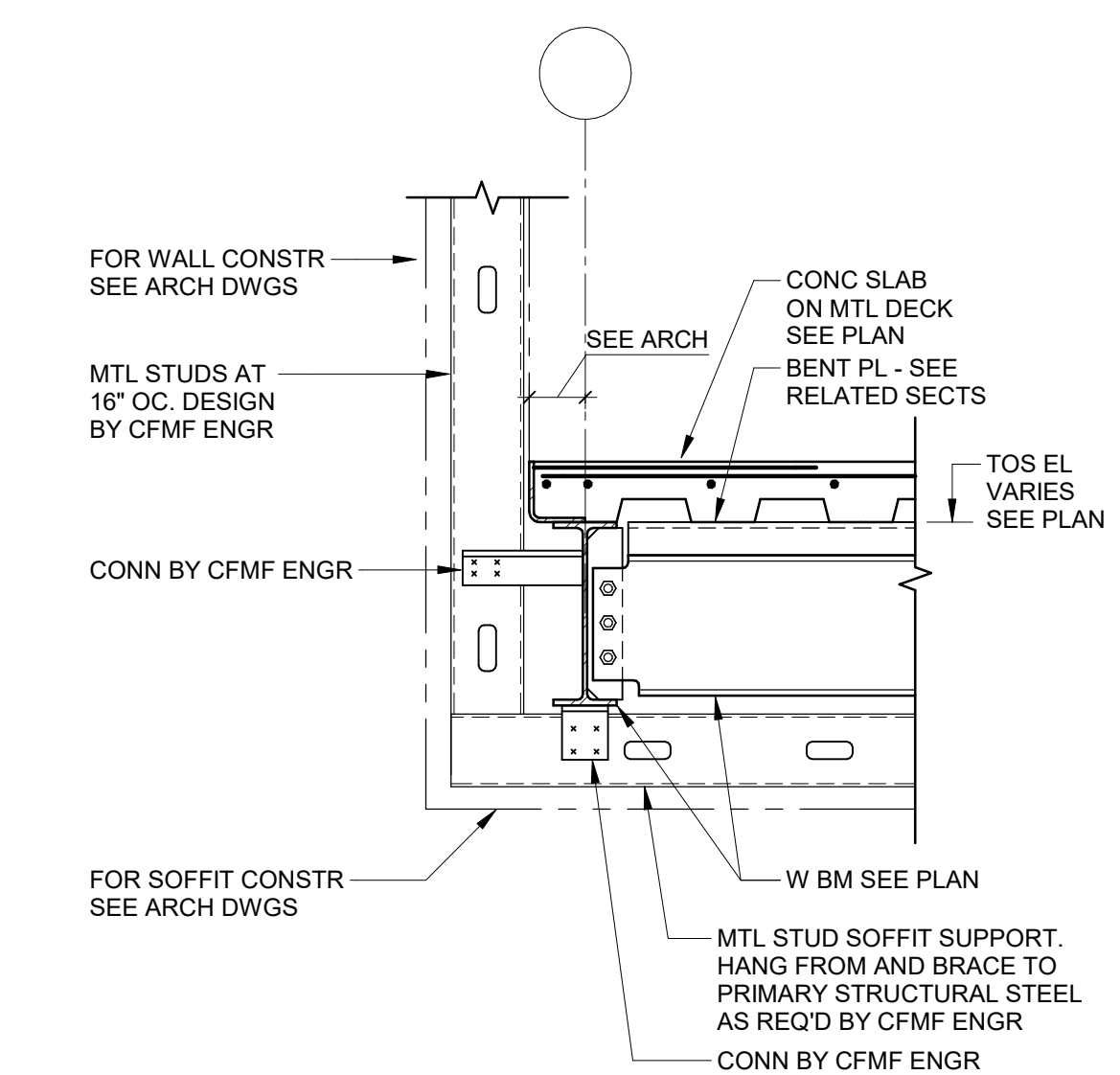
5 SECTION
SCALE: 3/4" = 1'-0"



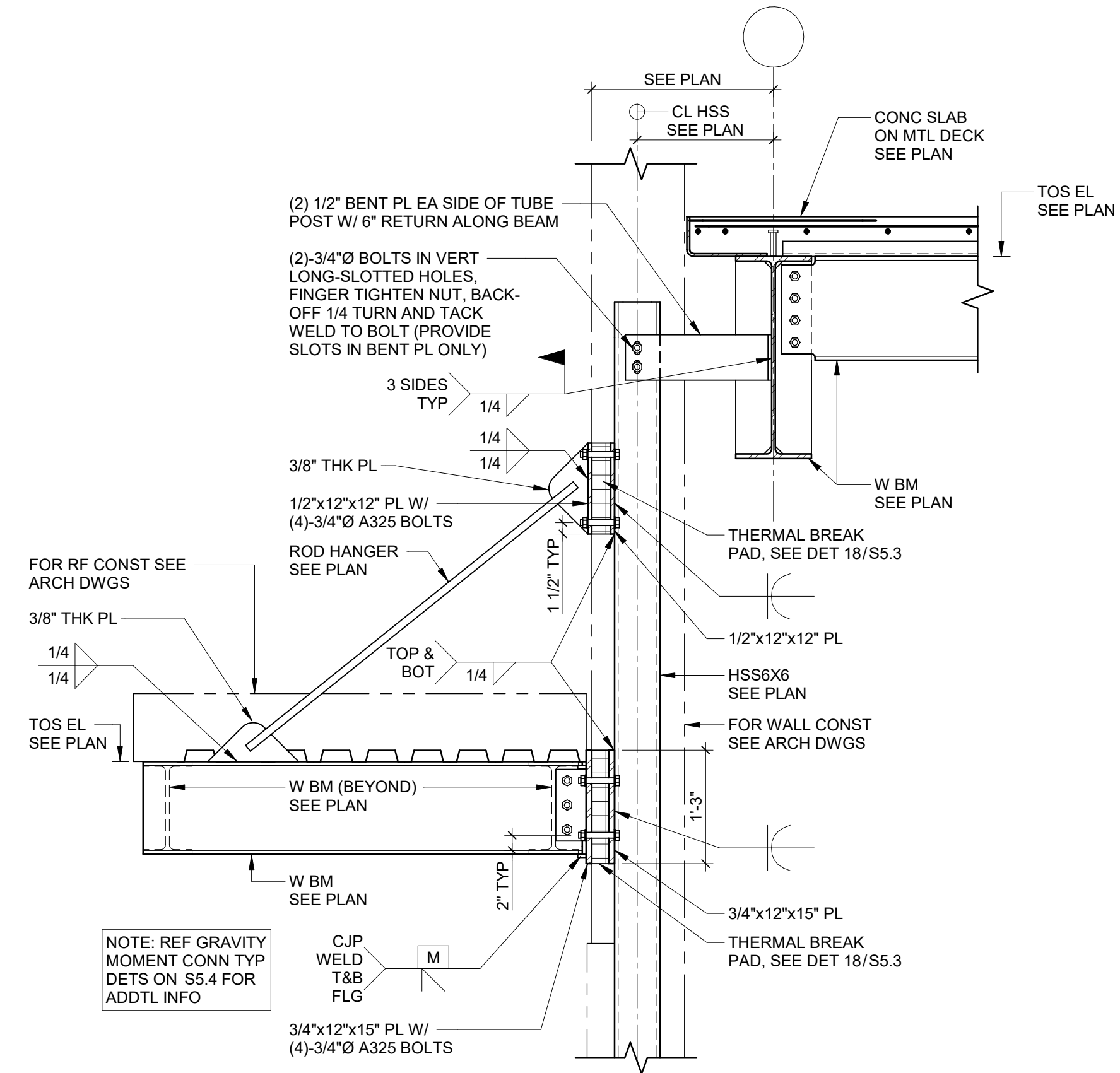
2 SECTION
SCALE: 3/4" = 1'-0"



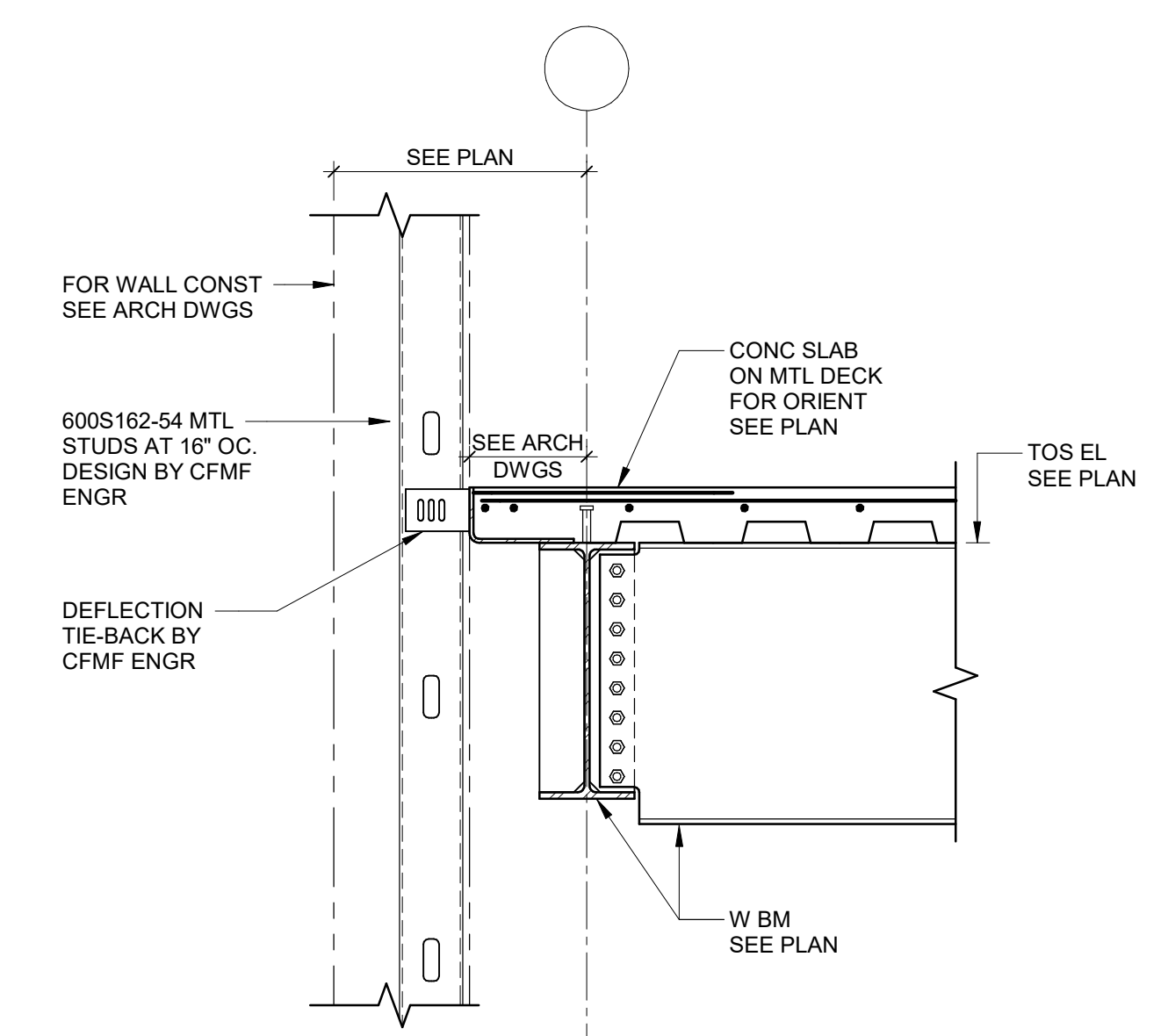
9 SECTION
SCALE: 3/4" = 1'-0"



6 SECTION
SCALE: 3/4" = 1'-0"



4 SECTION
SCALE: 3/4" = 1'-0"



1 SECTION
SCALE: 3/4" = 1'-0"

KEY PLAN

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REVISIONS

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DRAWN BY: Author DATE: 05.24.2024

PROJECT NO: 20230523 SCALE: As indicated

DRAWING NAME: SECTIONS

FLOOR/SECTION PHASE: DRAWING NO.

NOT FOR CONSTRUCTION

CD S3.3

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KEY PLAN

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Southern Nevada Health District
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Las Vegas, NV 89106

DRAWN BY _____ Author DATE 05.24.2024

PROJECT NO. 20230523 SCALE 3/4" = 1'-0"

DRAWING NAME

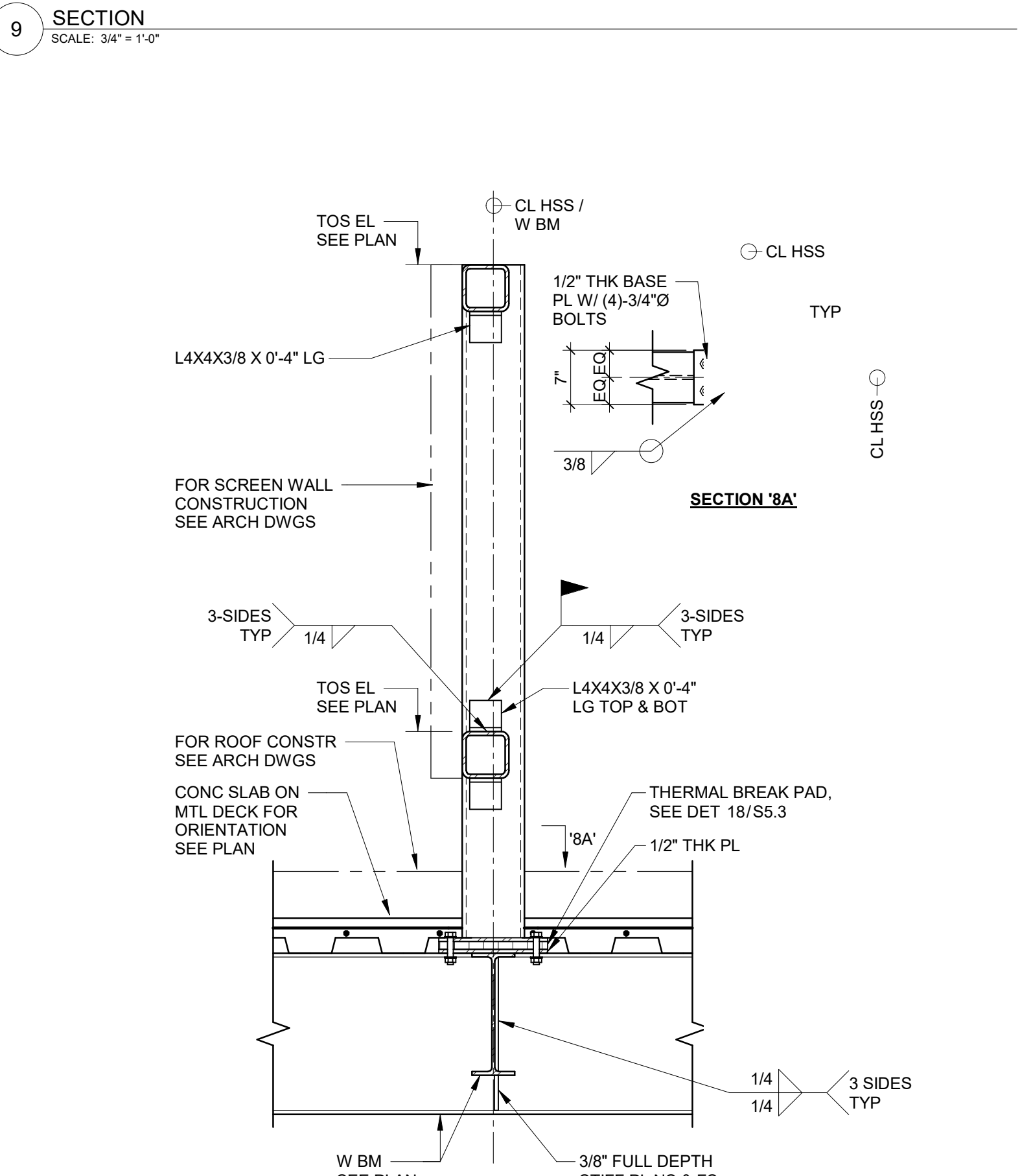
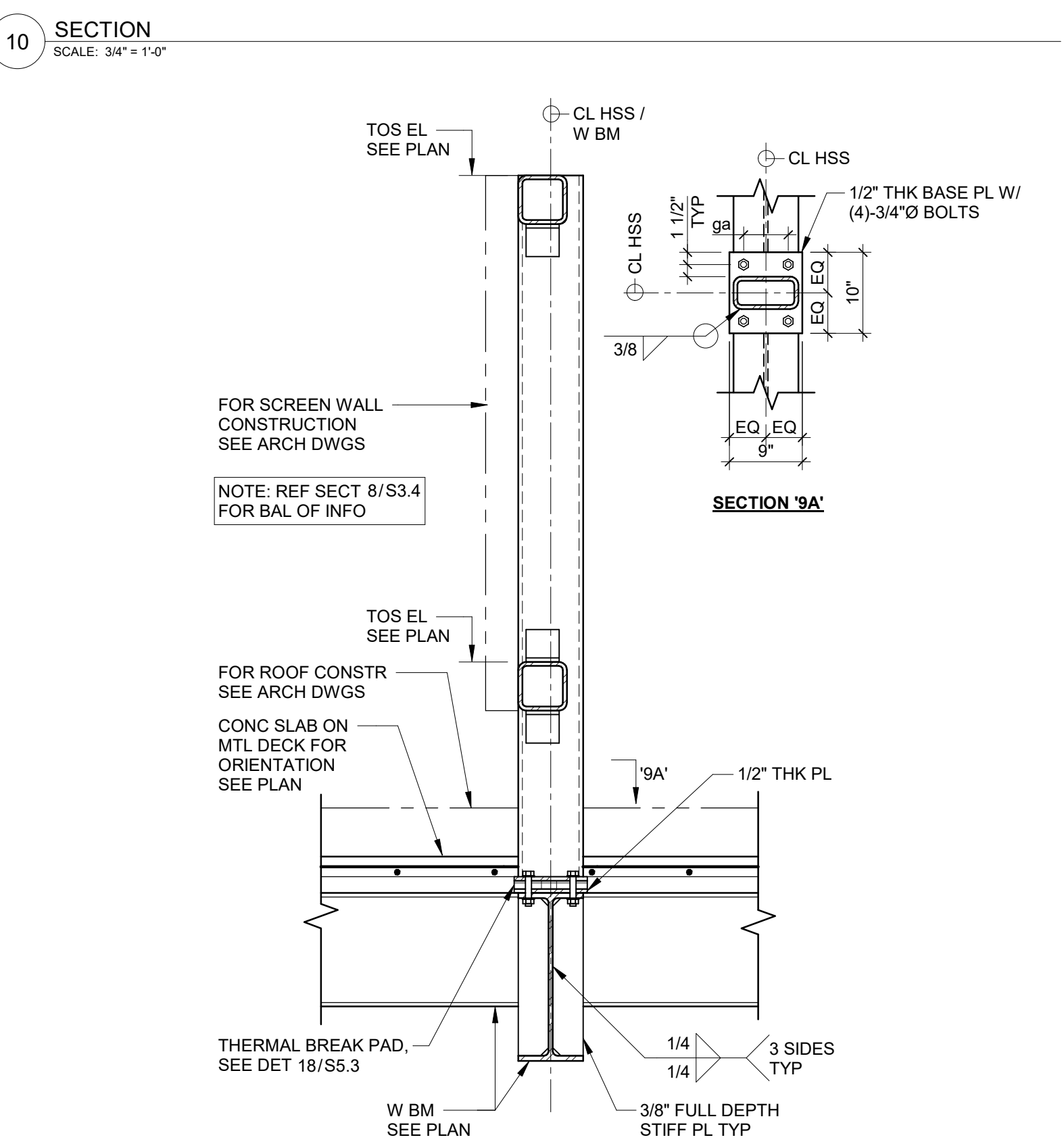
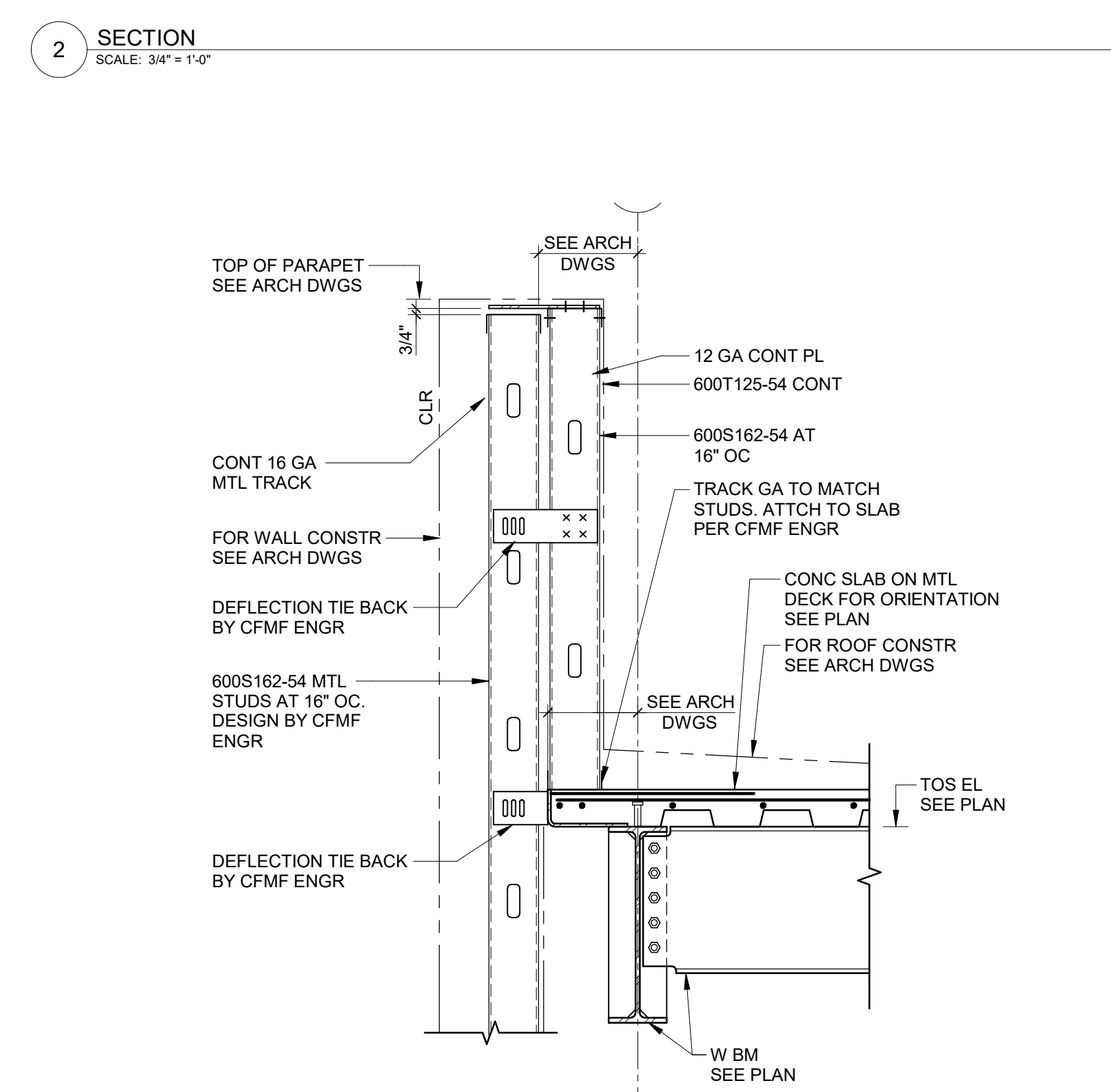
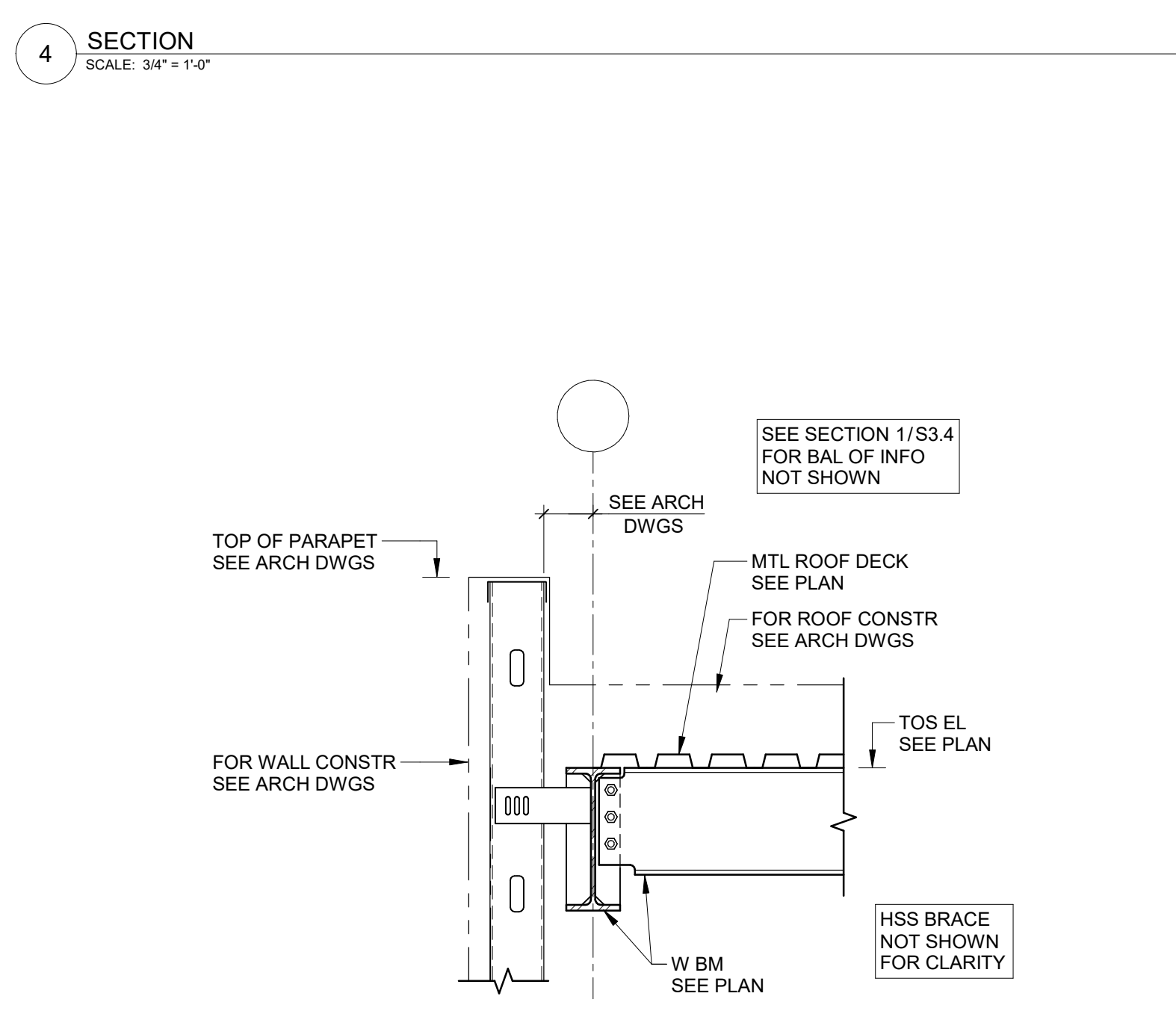
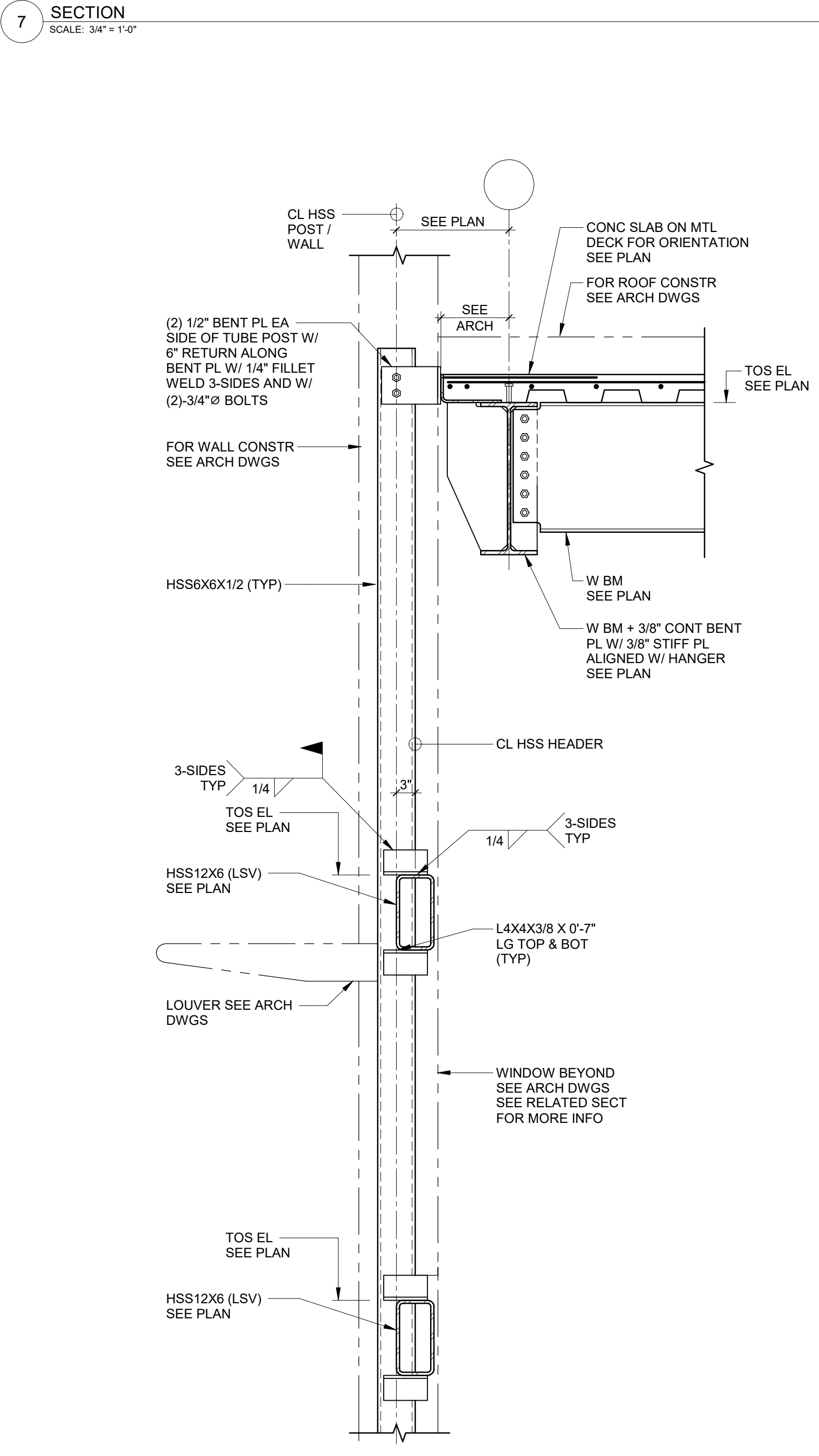
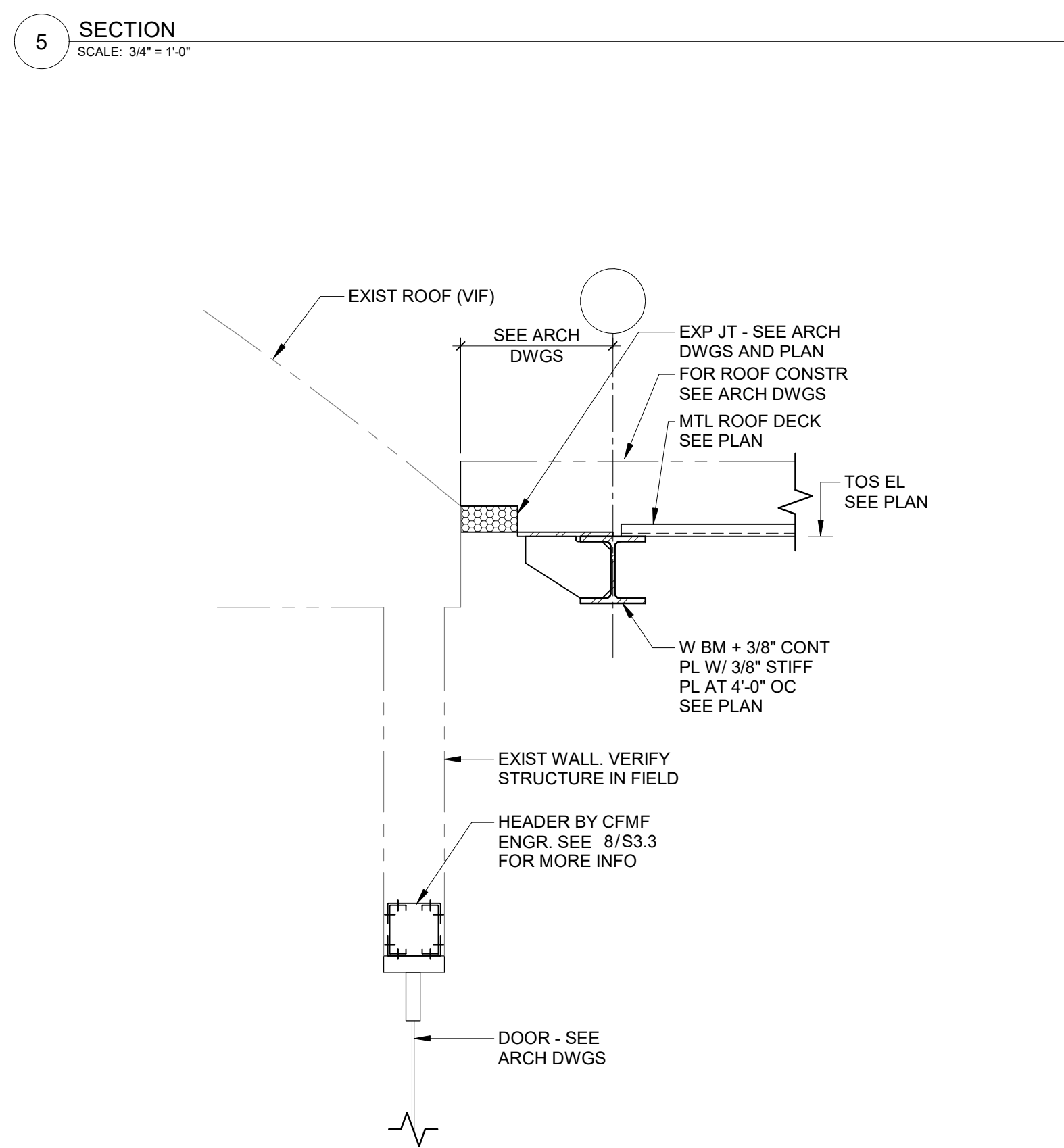
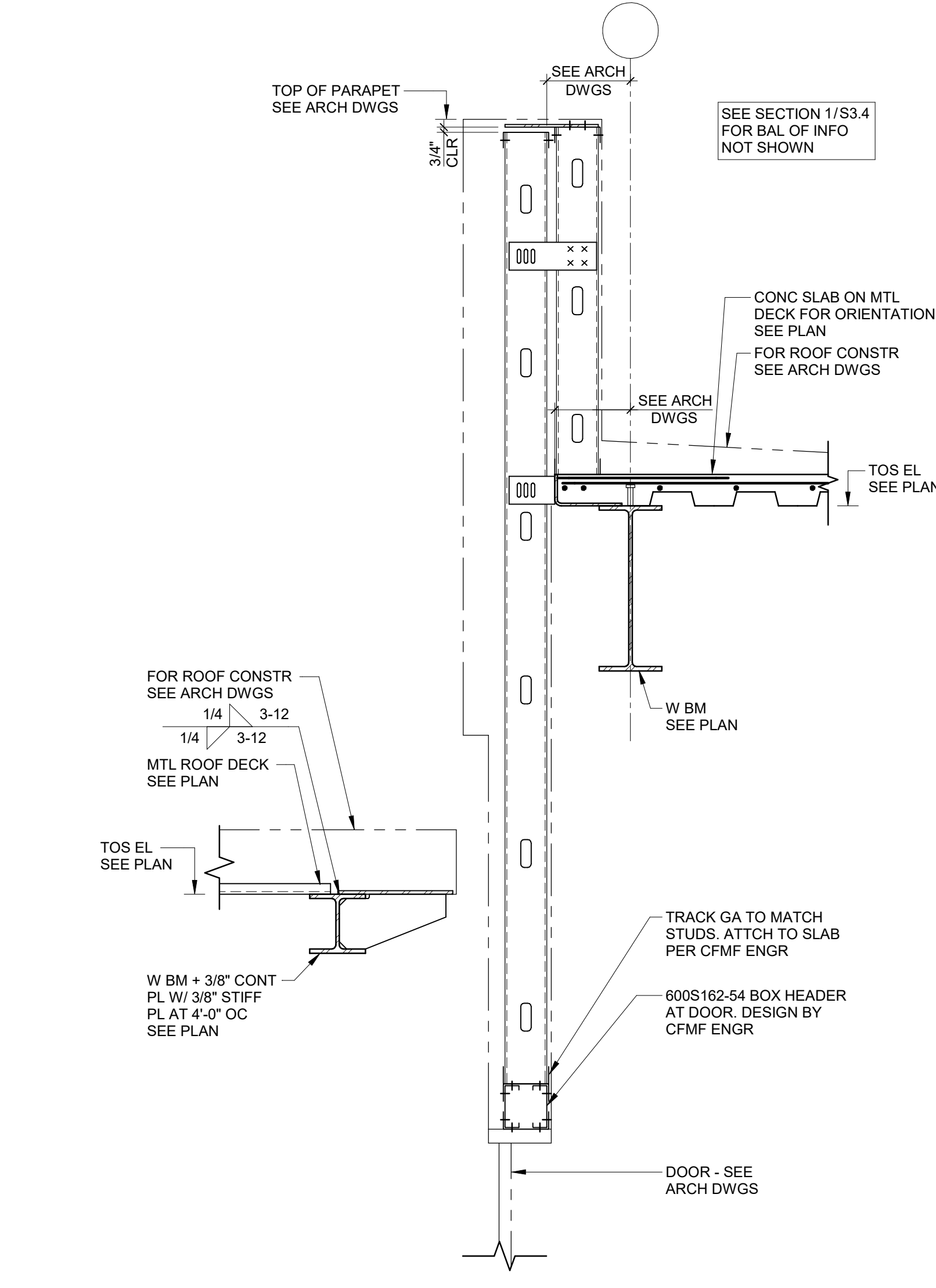
SECTIONS

FLOOR/SECTION PHASE DRAWING NO.

NOT FOR CONSTRUCTION

CD

S3.4



11/11/2024 8:52:38 AM Autodesk Docs://20230523_South Nevada Health District MLK Bldg 3 L4B/20230523_S32_CENTRAL.rvt

MARK	WIDTH	LENGTH	THICKNESS	REINFORCEMENT				REMARKS
				BOT REINF		TOP REINF		
				LONGER DIR	SHORTER DIR	LONGER DIR	SHORTER DIR	
F3.0x9.83	9'-10"	3'-0"	1'-6"	(5) - #6	(11) - #6	(5) - #6	(11) - #6	
F4.0x10.66	10'-8"	4'-0"	2'-0"	(5) - #6	(13) - #6	(5) - #6	(13) - #6	
F5.0	6'-0"	4'-0"	2'-0"	(7) - #6	(7) - #6	-	-	
F7.0	7'-0"	7'-0"	1'-6"	(8) - #6	(8) - #6	(8) - #6	(8) - #6	
F8.0	8'-0"	8'-0"	1'-6"	(9) - #6	(9) - #6	(9) - #6	(9) - #6	
F11.0A	11'-0"	11'-0"	2'-0"	(13) - #6	(13) - #6	-	-	
F11.0B	11'-0"	11'-0"	2'-6"	(12) - #6	(12) - #6	(12) - #6	(12) - #6	

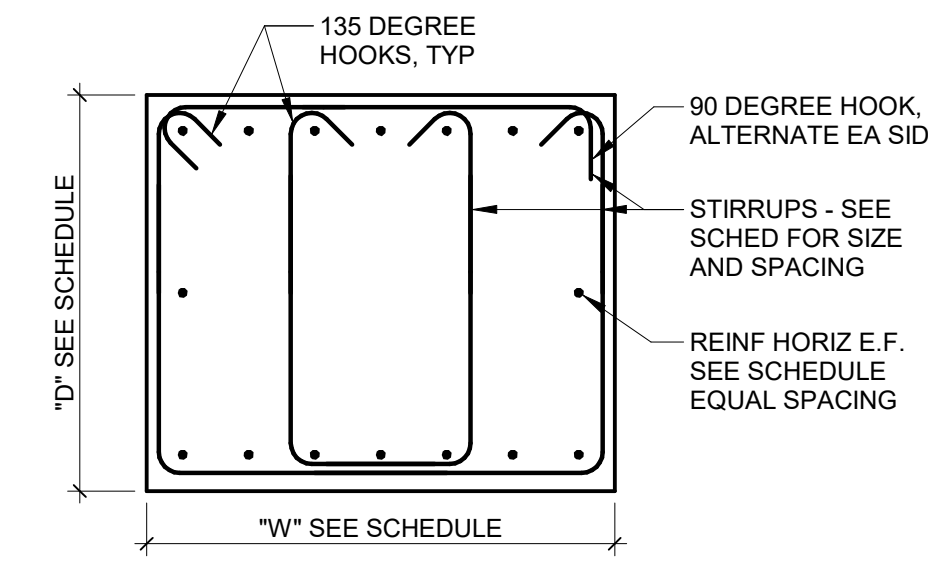
SEE THE FOUNDATION NOTES ON SG-1 AND THE REFERENCED GEOTECHNICAL REPORT FOR SPECIAL SUBGRADE PREPARATION REQUIREMENTS AT THIS SITE DUE TO EXPANSIVE SOILS.

MARK	WIDTH	THICKNESS	REINFORCEMENT				REMARKS
			BOT REINF		TOP REINF		
			LONGER DIR	SHORTER DIR	LONGER DIR	SHORTER DIR	
WF2.5	2'-6"	1'-0"	(3) #5	#5 @ 48"	-	-	

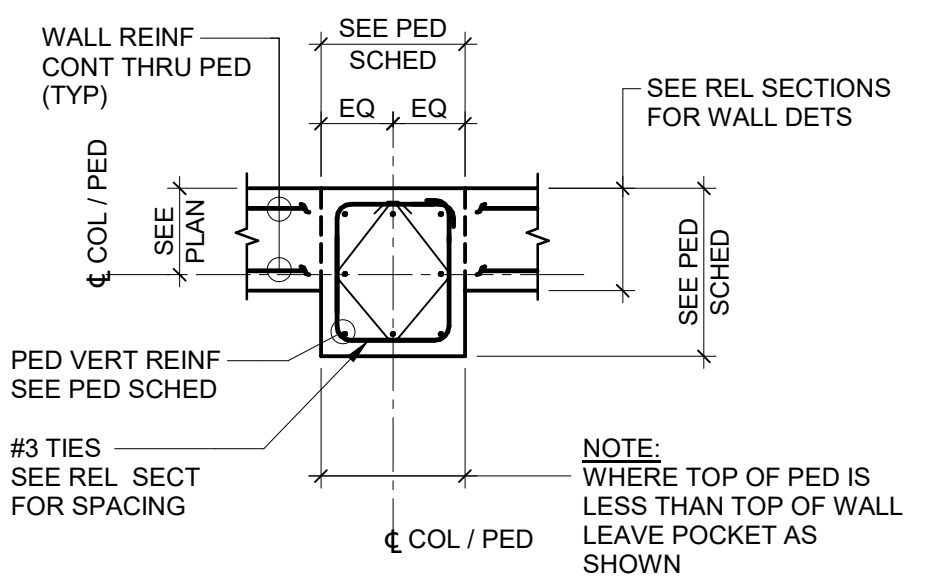
PEDESTAL MARK	PEDESTAL N-S DIM	PEDESTAL E-W DIM	PEDESTAL TIES	TIE DETAIL	VERTICAL REINF
P1	24"	24"	#3	A	(8)-#9
P2	24"	24"	#3	A	(8)-#9

TYPE	SIZE (W x D)	TOP HORIZ	BOT HORIZ	HORIZ E.F.	STIRRUPS	
					SIZE & SPA	TYPE
GB-1	39" x 33"	(7)#9	(7)#9	(1)#9	#4 - (35) @ 6" EA END, BAL @ 12"	A

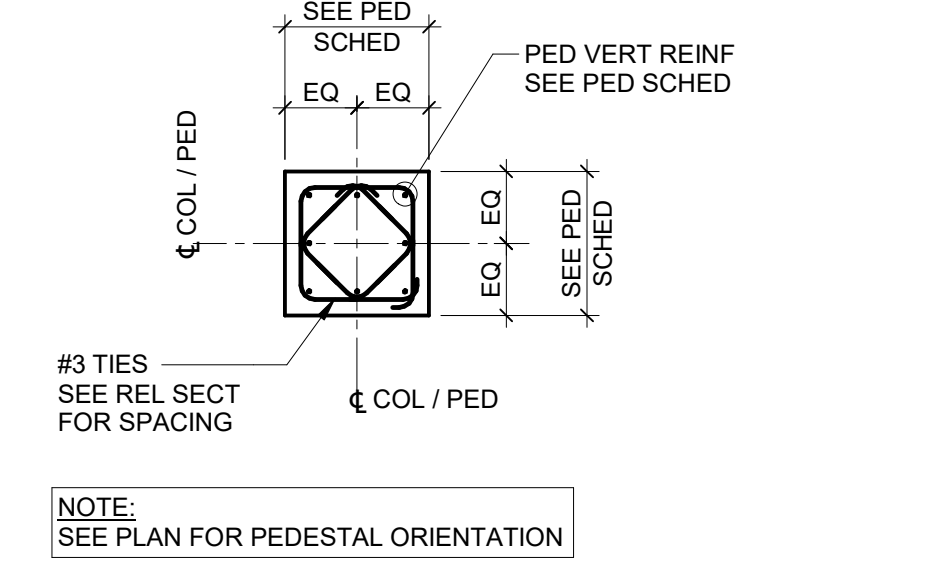
COLUMN MARK	SIZE	BASE PLATE SIZE N-S	BASE PLATE SIZE E-W	BASE PLATE THICKNESS	BASE PLATE TYPE
C1	W10X33	22"	22"	1 1/2"	C
C2	W12X50	20"	20"	1 1/4"	A
C3	W12X58	20"	20"	1 1/2"	A
C4	W12X106	26"	26"	2"	C
C6	HSS8X8X1/2	16"	16"	1 1/4"	B



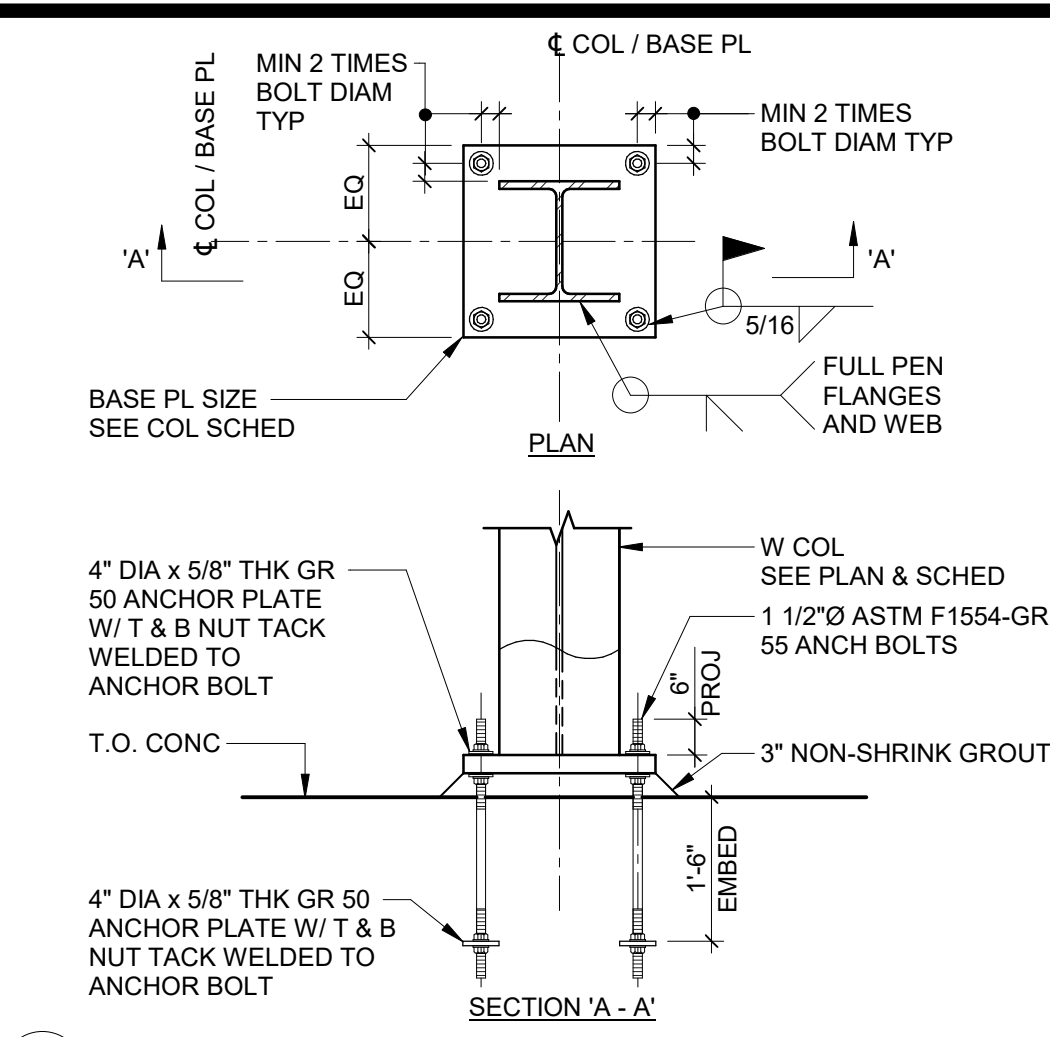
8 TYPICAL DETAIL - GRADE BEAM DETAIL TYPE 'A'
SCALE: 3/4" = 1'-0"



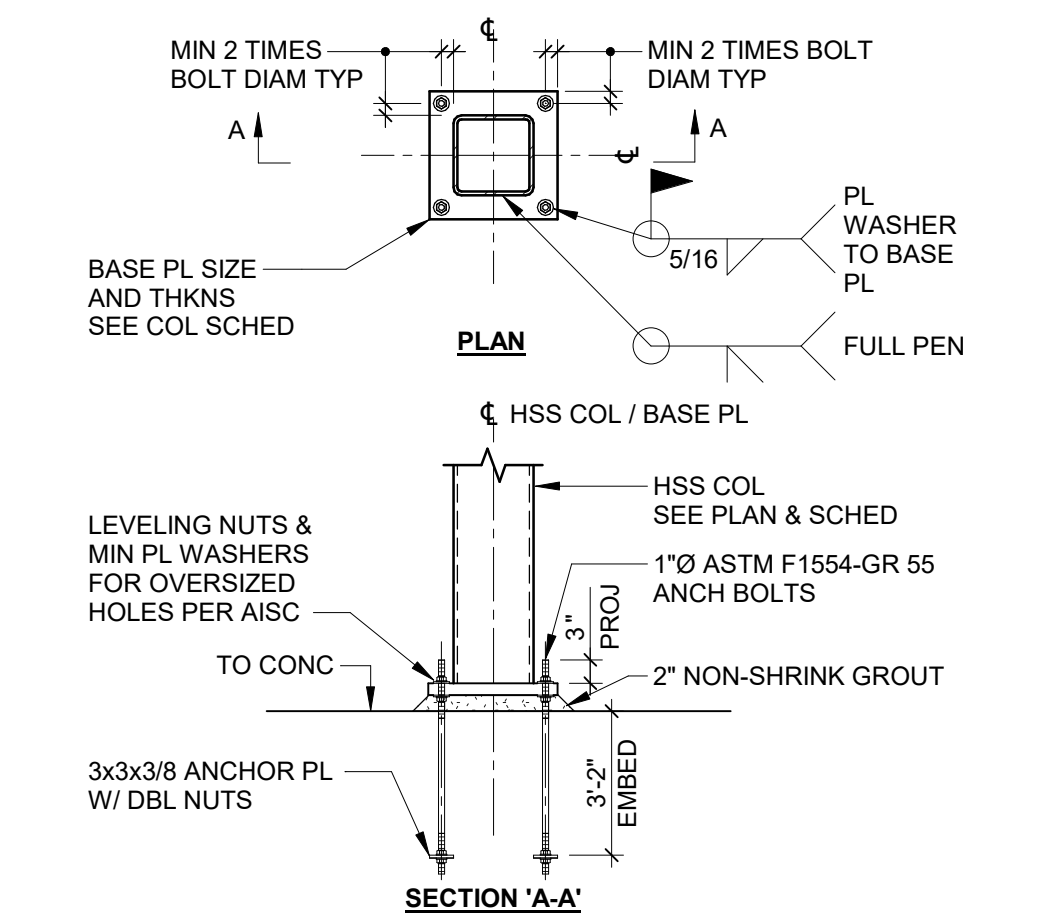
7 TYPICAL DETAIL - TIE/PEDESTAL DETAIL 'B'
SCALE: NTS



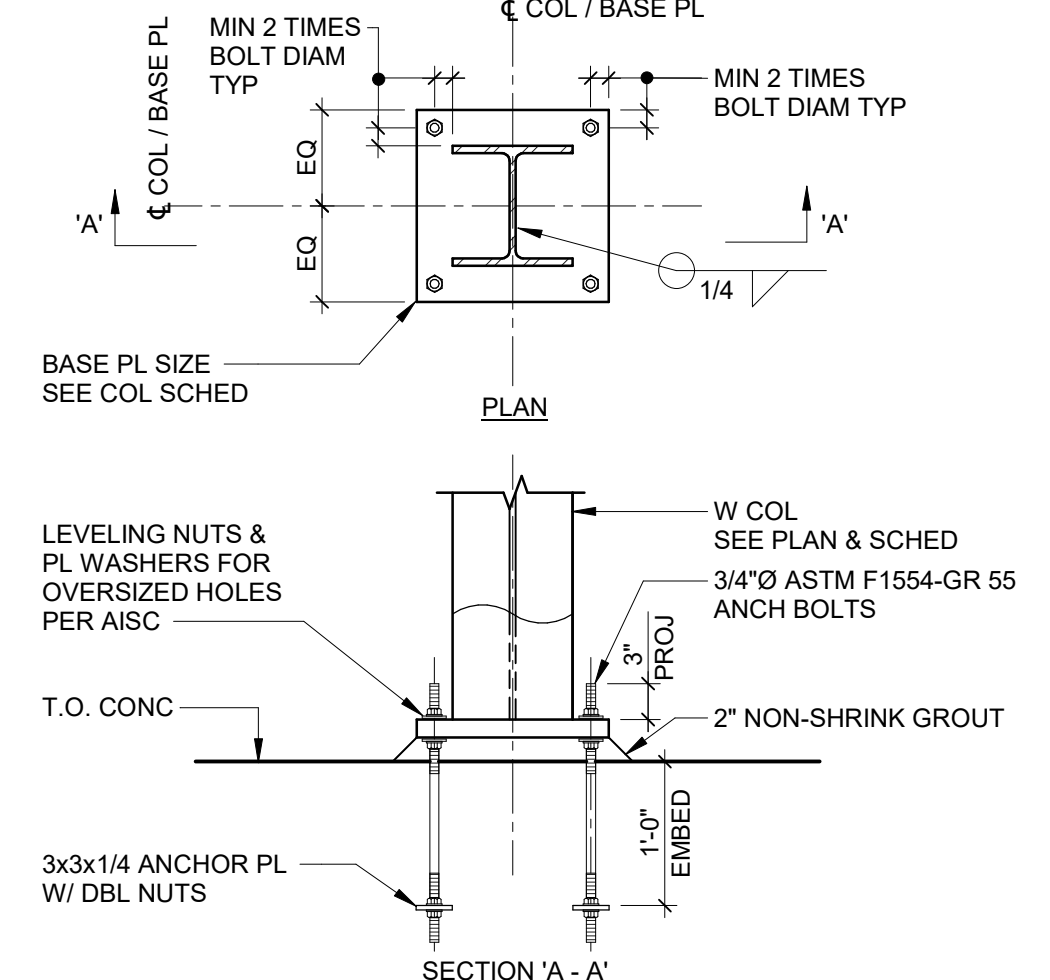
6 TYPICAL DETAIL - TIE/PEDESTAL DETAIL 'A'
SCALE: NTS



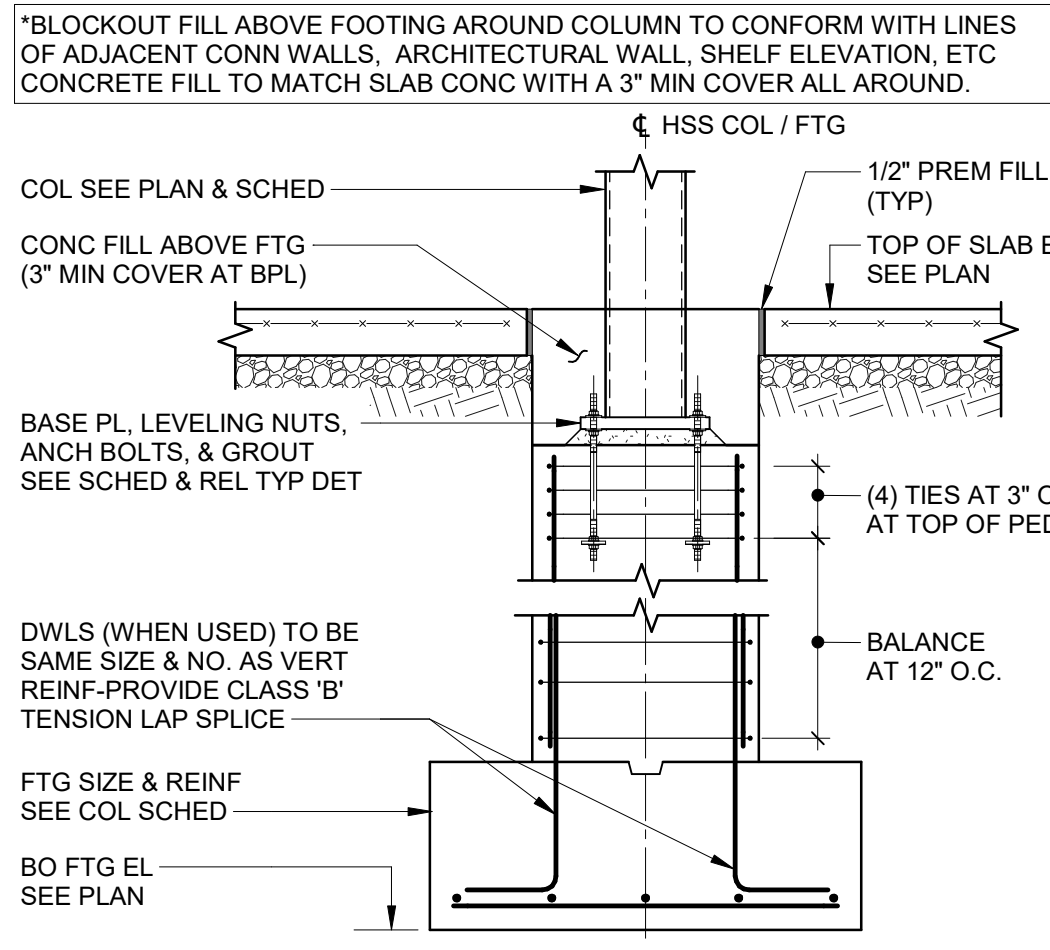
5 TYPICAL DETAIL - COLUMN BASE PLATE TYPE 'C'
SCALE: 3/4" = 1'-0"



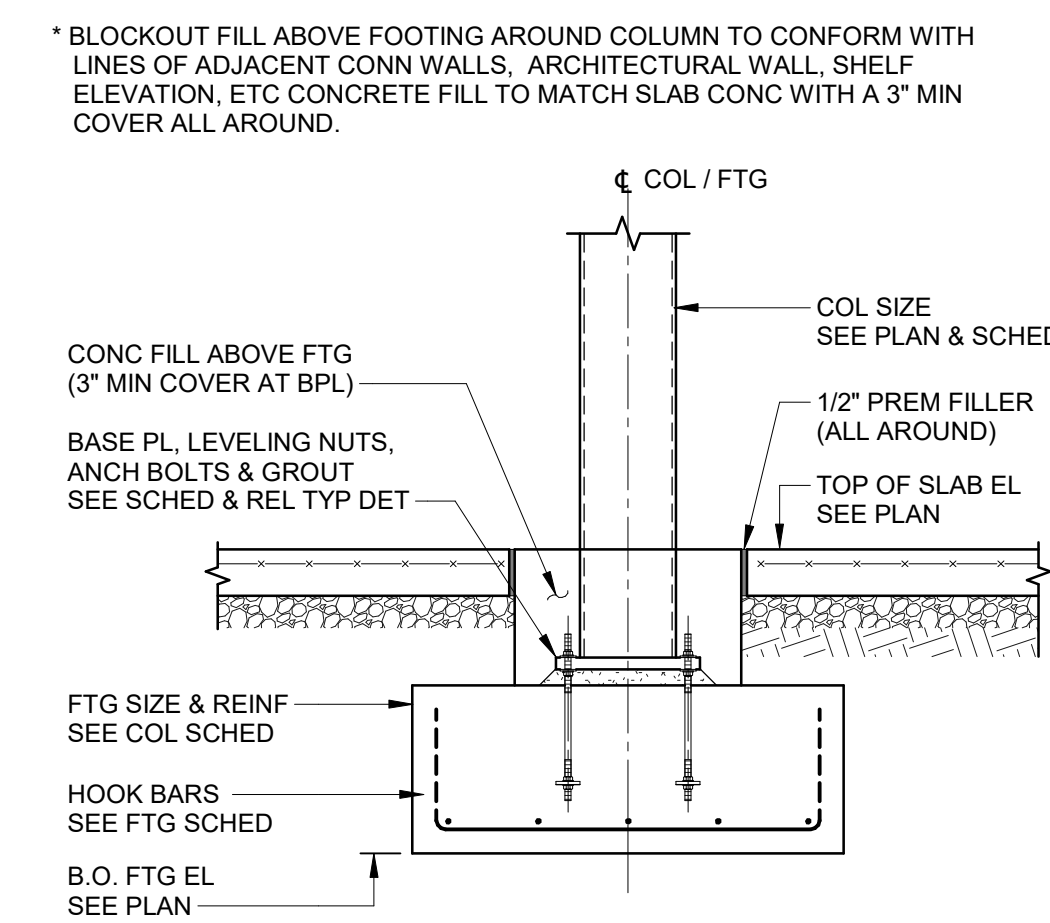
4 TYPICAL DETAIL - COLUMN BASE PLATE TYPE 'B'
SCALE: NTS



3 TYPICAL DETAIL - COLUMN BASE PLATE TYPE 'A'
SCALE: NTS



2 TYPICAL DETAIL - COLUMN FOOTING WITH PEDESTAL
SCALE: NTS



1 TYPICAL DETAIL - COLUMN FOOTING WITHOUT PEDESTAL
SCALE: NTS

NOT FOR CONSTRUCTION

KEY PLAN

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STEPHEN BARTAL

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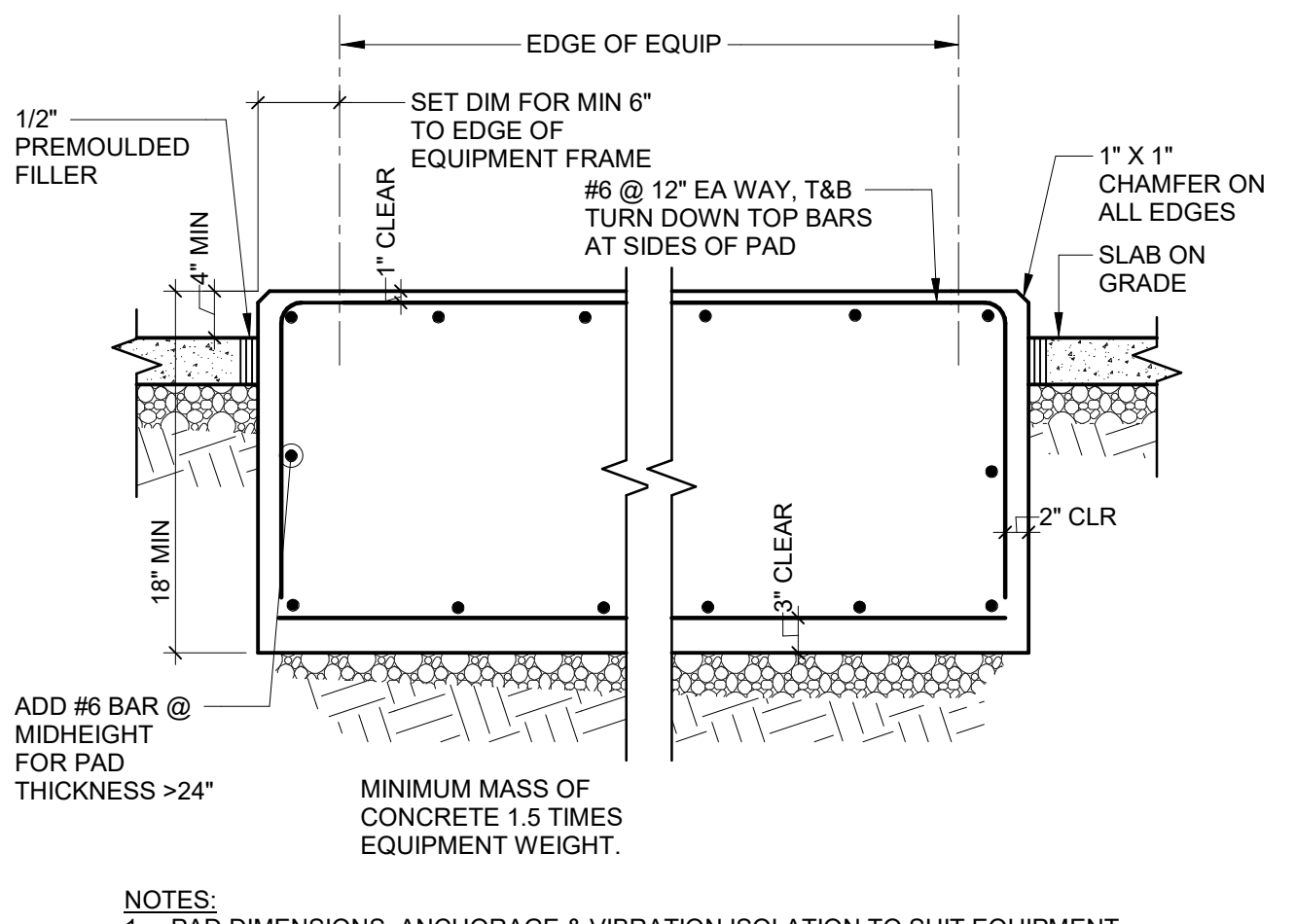
DRAWN BY: SGB DATE: 05.24.2024

PROJECT NO: 20230523 SCALE: As indicated

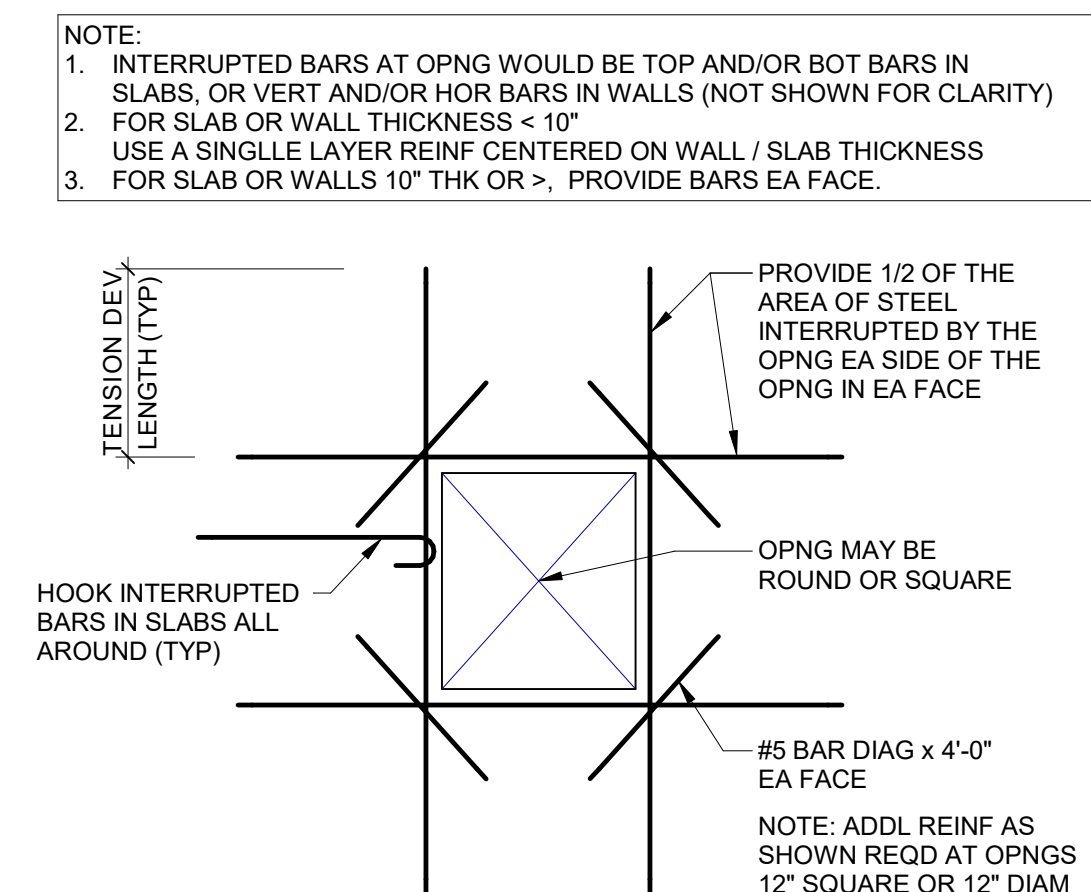
DRAWING NAME: COLUMN AND FOUNDATION SCHEDULE AND DETAILS

FLOOR/SECTION PHASE: DRAWING NO.

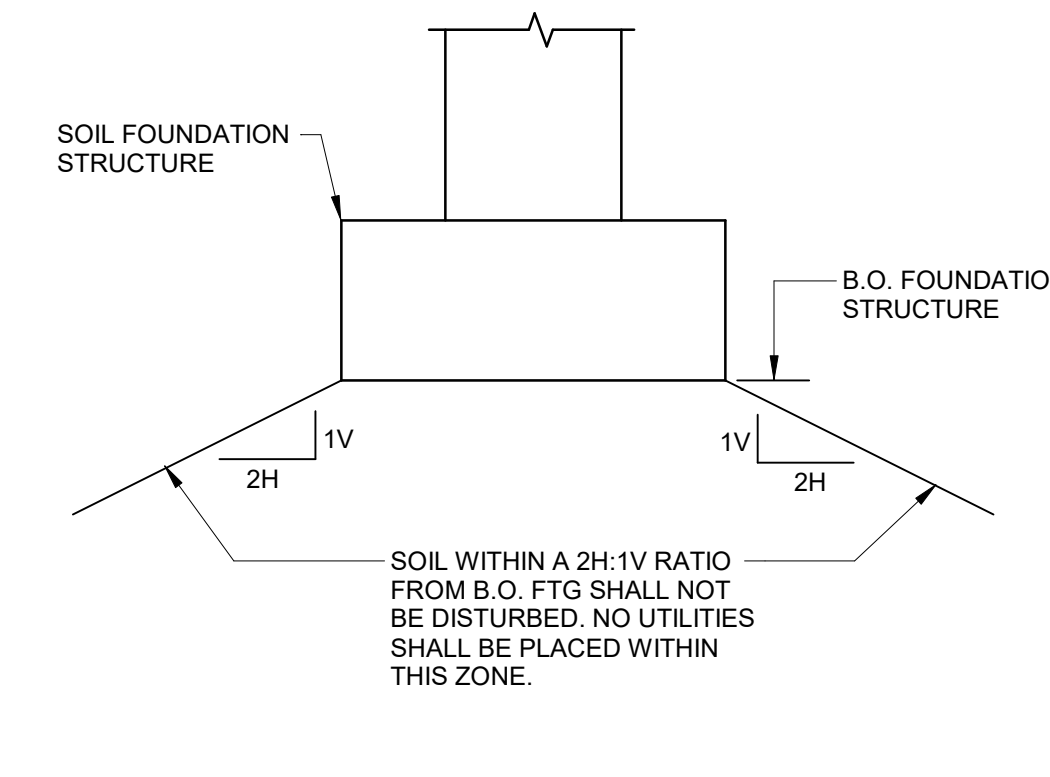
CD S4.1



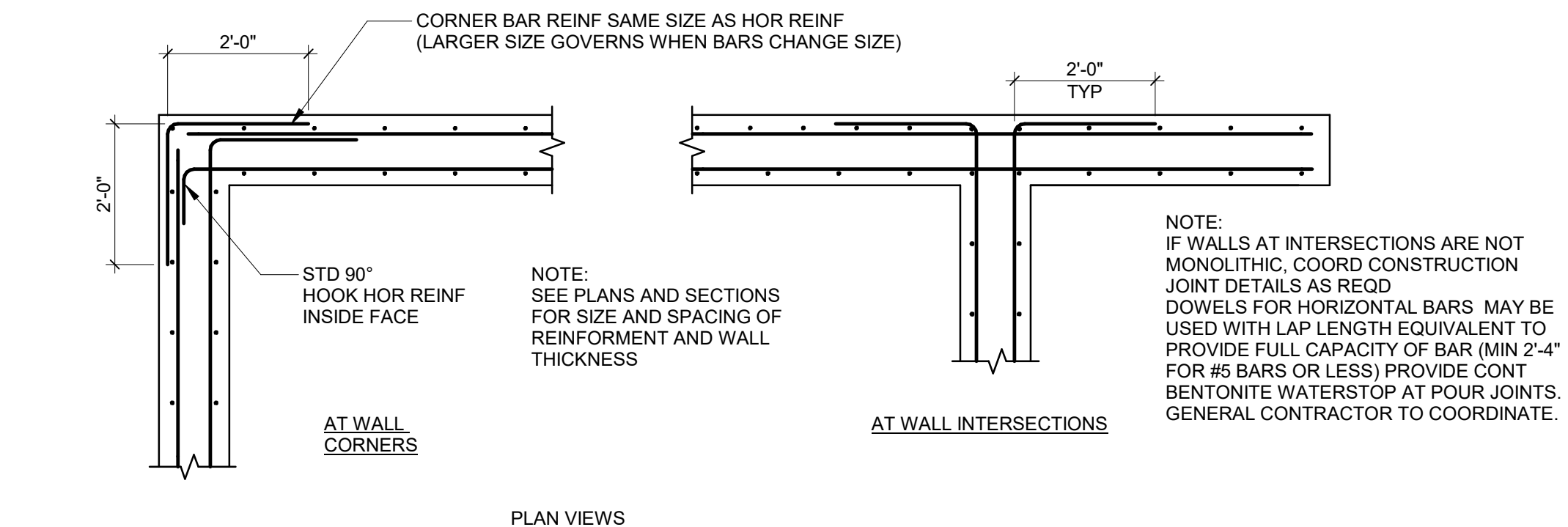
14 TYPICAL DETAIL - EQUIPMENT PAD TYPE 2
SCALE: NTS



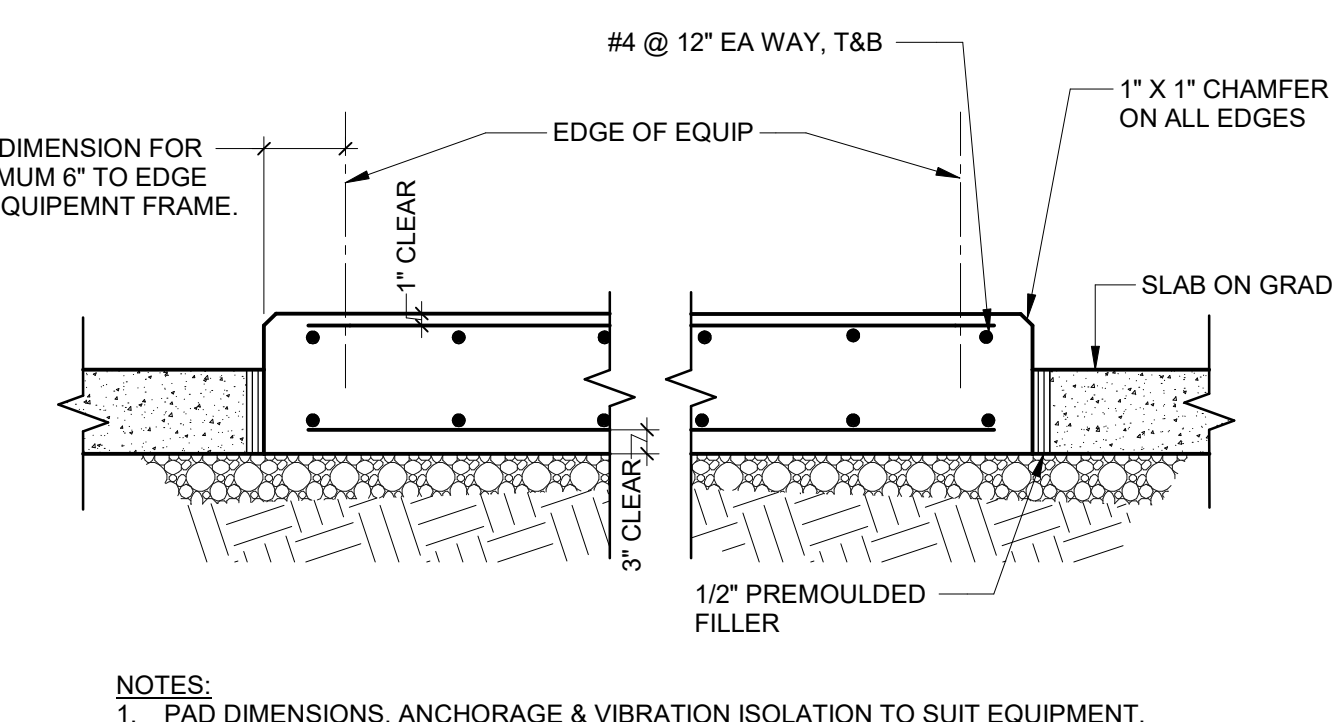
10 TYPICAL DETAIL - REINFORCING AT WALL OR SLAB OPENING
SCALE: NTS



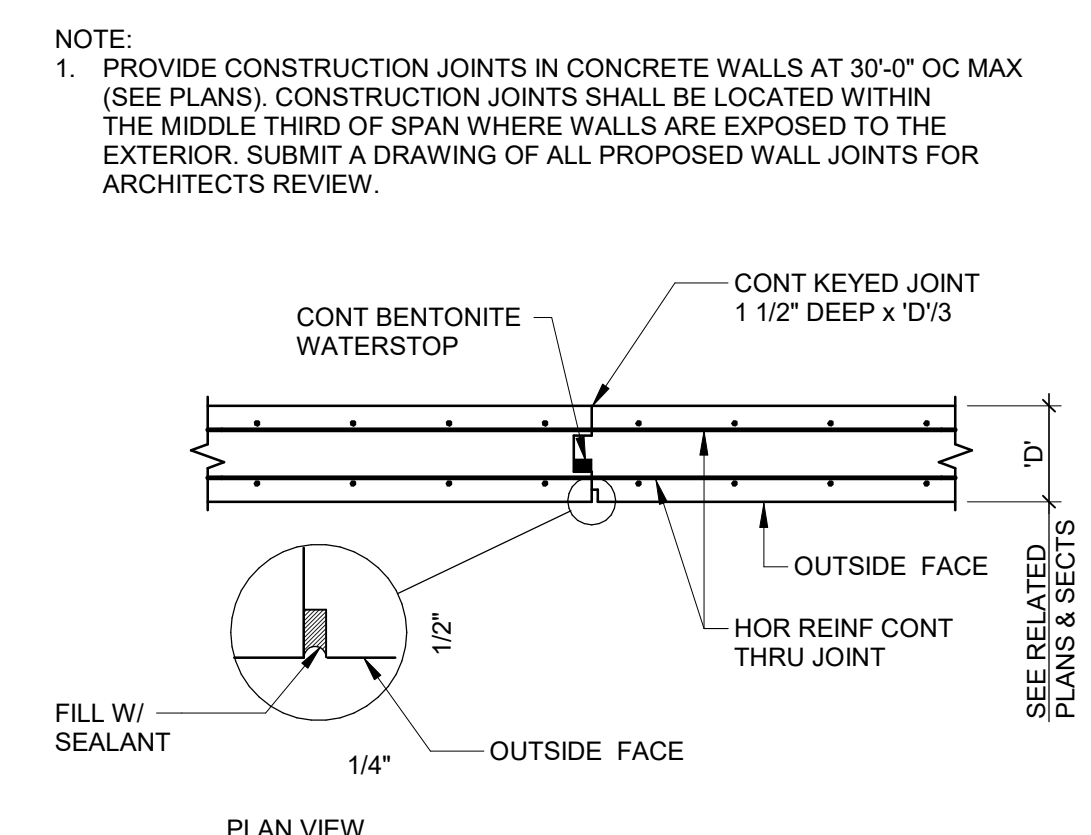
7 TYPICAL DETAIL - NEW OR EXISTING CONCRETE FOUNDATION LOAD ZONE OF INFLUENCE
SCALE: NTS



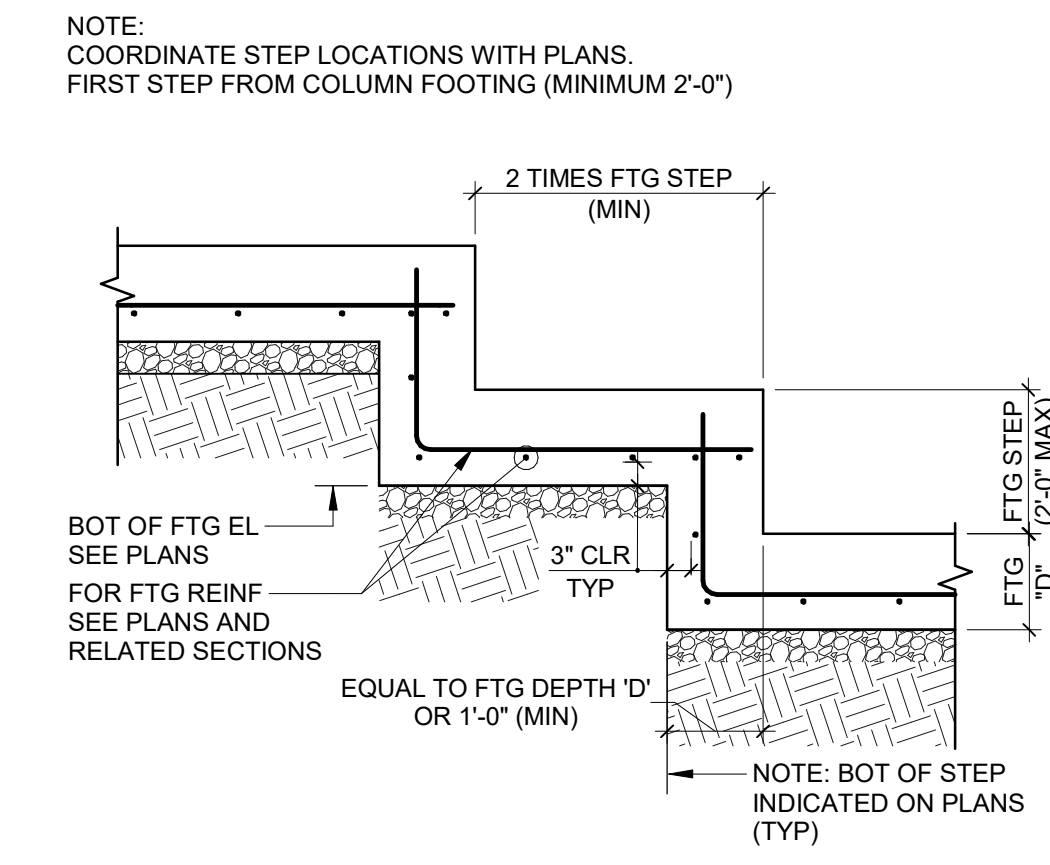
4 TYPICAL DETAIL - DOUBLE LAYER REINFORCING FOR CONCRETE WALLS
SCALE: NTS



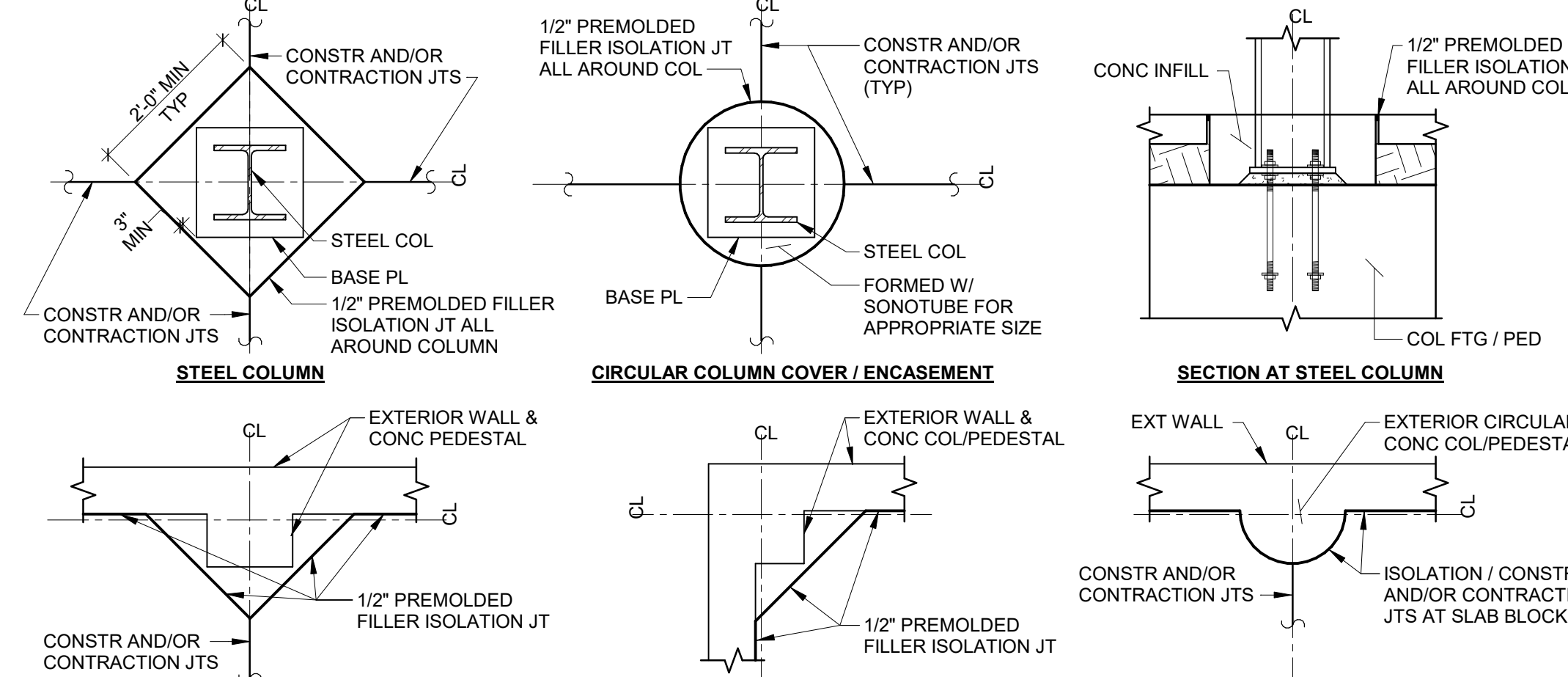
13 TYPICAL DETAIL - EQUIPMENT PAD TYPE 1
SCALE: NTS



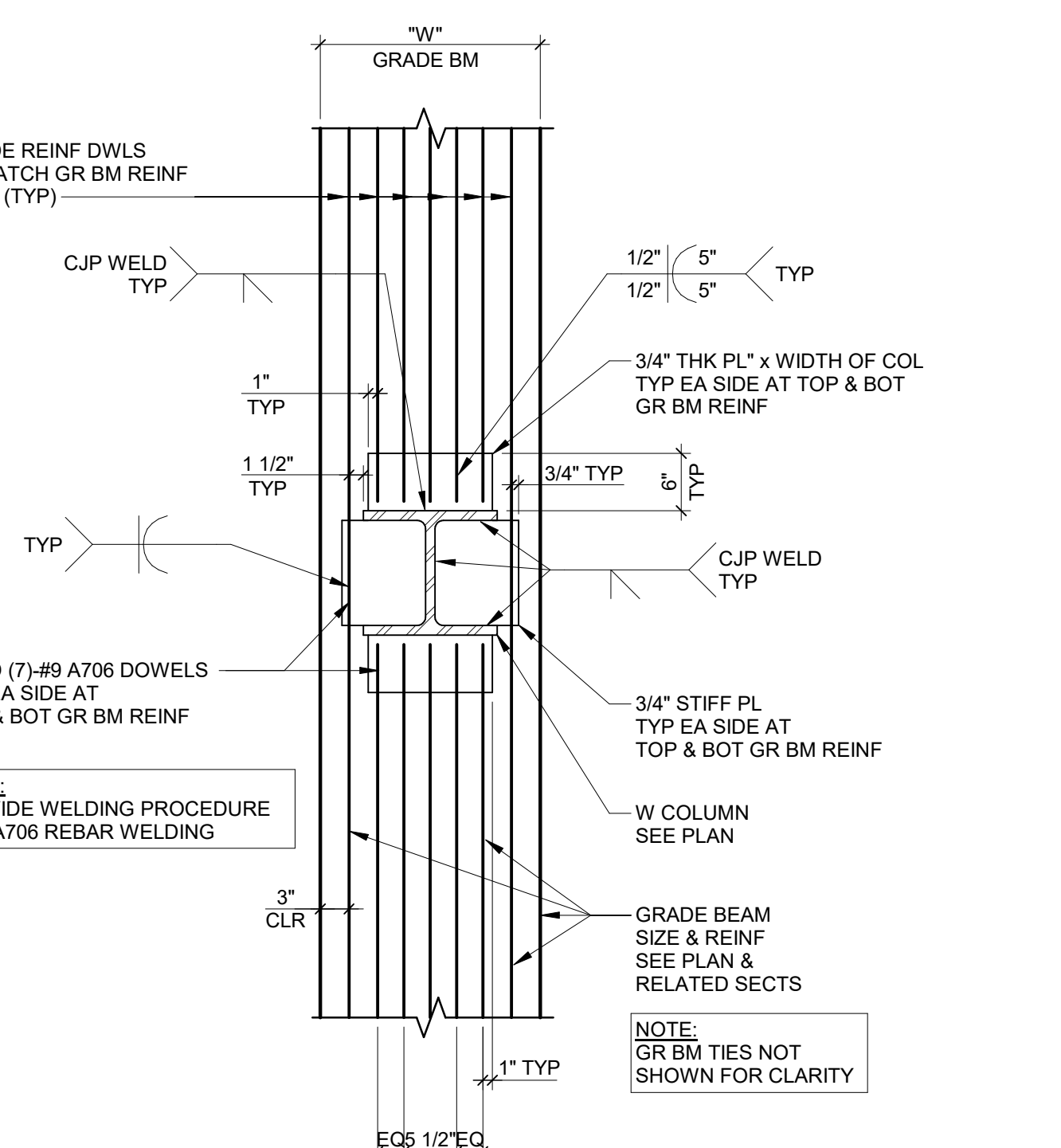
9 TYPICAL DETAIL - CONCRETE WALL CONSTRUCTION JOINT
SCALE: NTS



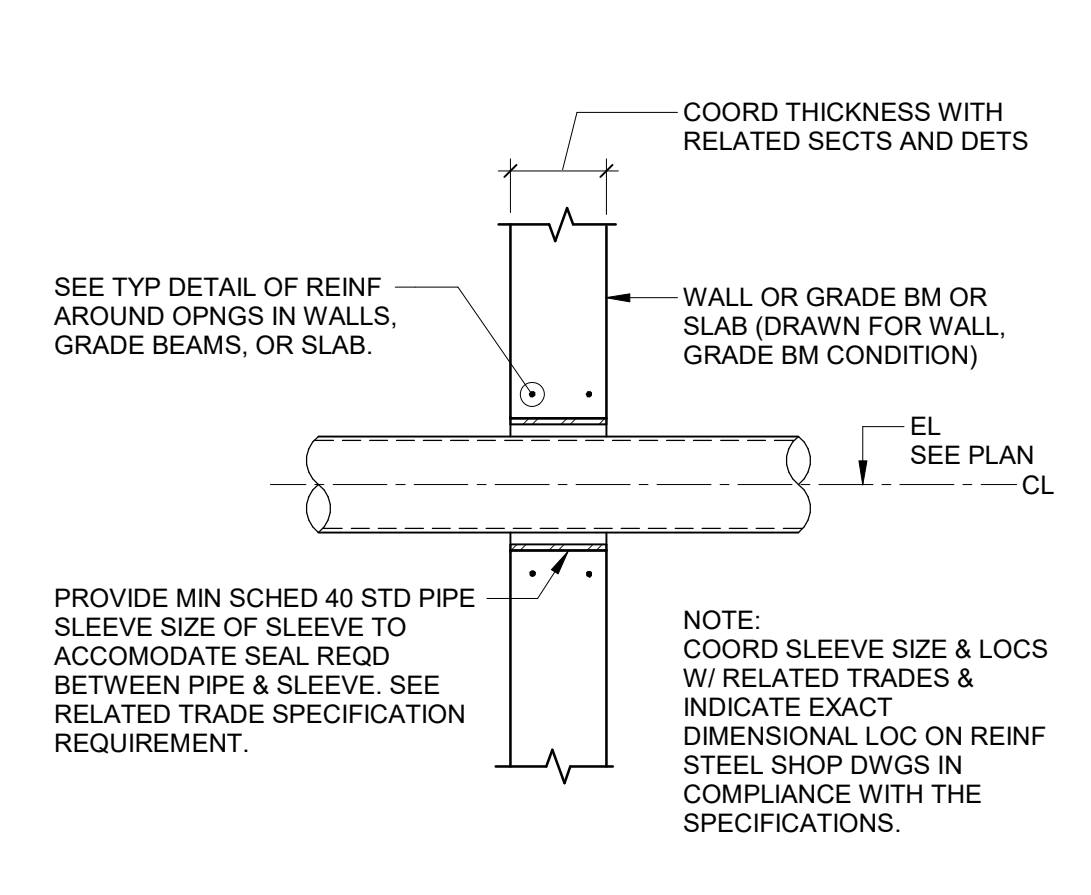
6 TYPICAL DETAIL - STEPPED FOOTING WITH BOTTOM REINFORCEMENT
SCALE: NTS



3 TYPICAL DETAIL - JOINTS AT COLUMN FOR SLAB ON GRADE
SCALE: NTS



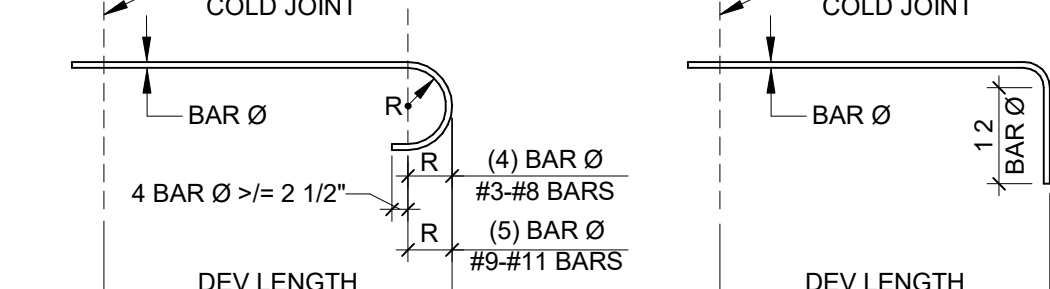
12 TYPICAL DETAIL - A706 REBAR WELDING CONNECTION TO STEEL
SCALE: NTS



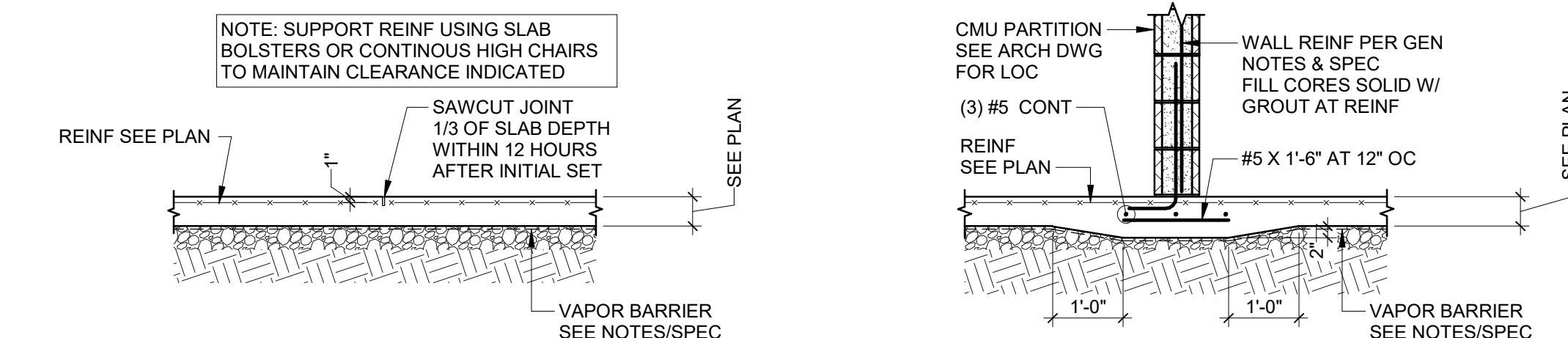
8 TYPICAL DETAIL - PIPE/CONDUIT SLEEVE THRU FOUNDATION WALL / GRADE BEAM
SCALE: NTS

BARS	3,000 PSI		4,000 PSI		4,500 PSI		5,000 PSI	
	NW	LW	NW	LW	NW	LW	NW	LW
#3	9	11	8	7	7	7	7	7
#4	11	15	10	9	9	9	9	9
#5	14	18	12	12	11	11	11	11
#6	17	22	15	14	13	13	13	13
#7	20	25	17	16	15	15	15	15
#8	22	29	19	18	17	17	17	17
#9	25	33	22	21	20	20	20	20
#10	28	36	24	23	22	22	22	22
#11	31	40	27	25	24	24	24	24

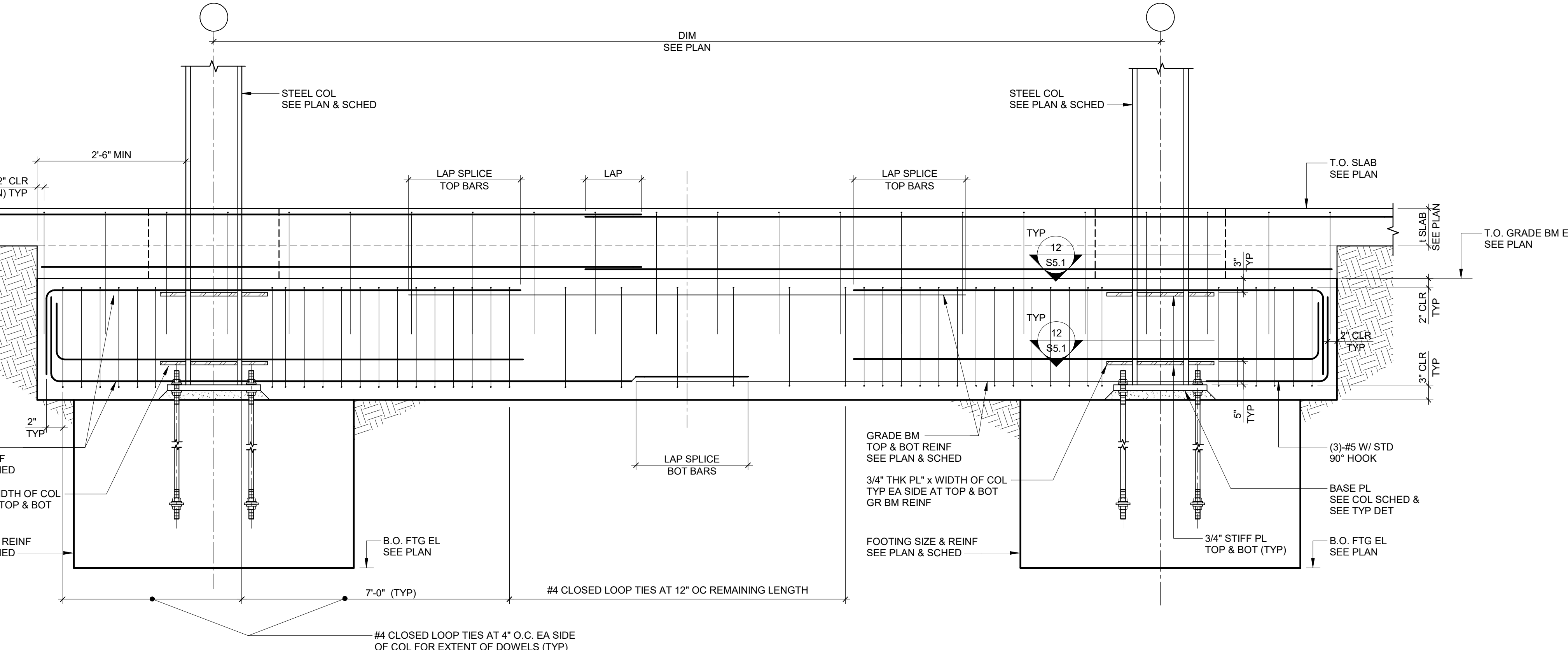
DEVELOPMENT LENGTHS FOR EPOXY COATED REBAR SHALL BE INCREASED BY A FACTOR OF 1.2 FROM THE VALUES SHOWN IN THE TABLE.



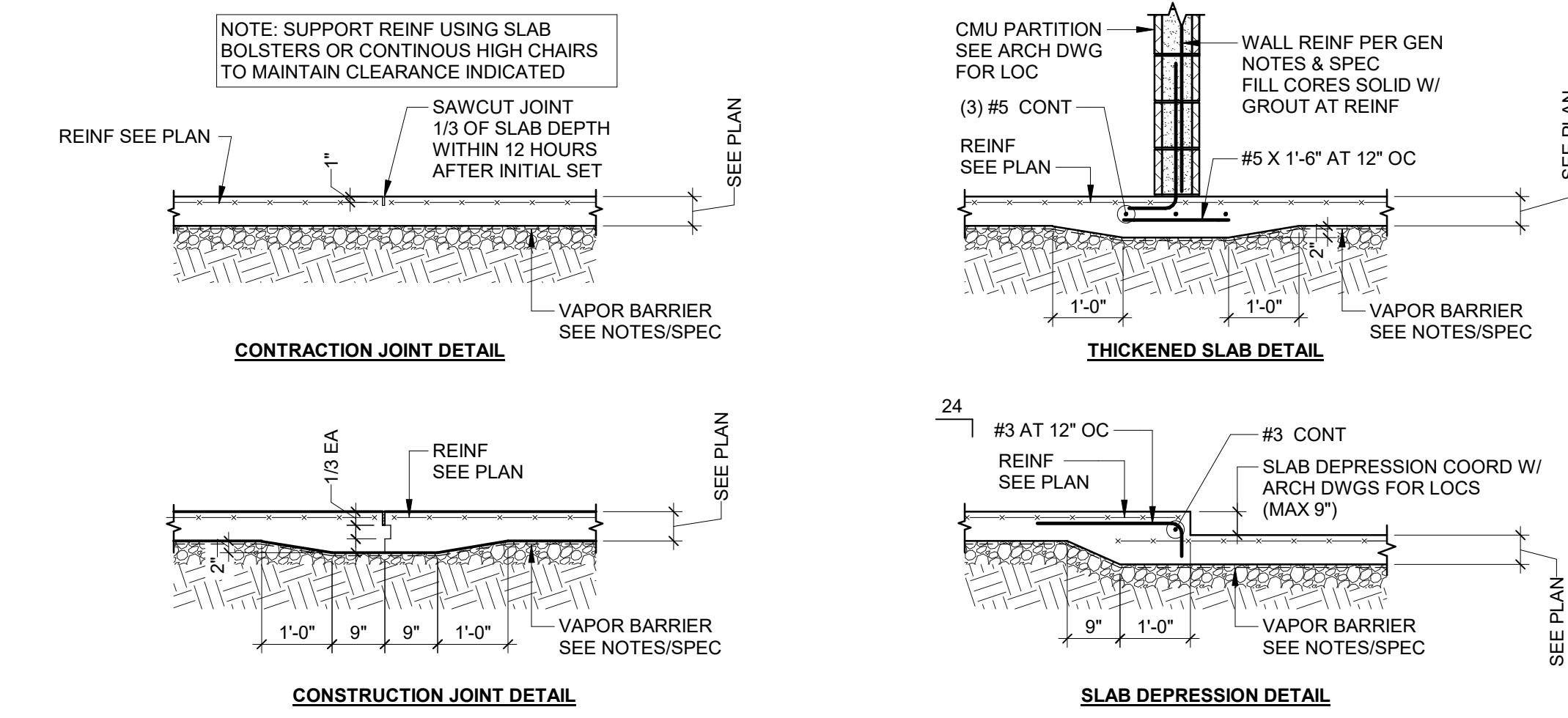
5 STANDARD HOOK DEVELOPMENT LENGTHS
SCALE: NTS



2 TYPICAL DETAIL - SLAB ON GRADE
SCALE: NTS



11 TYPICAL DETAIL DETAIL - GRADE BEAM REINFORCING
SCALE: NTS



2 TYPICAL DETAIL - Joints at Column for Slab on Grade
SCALE: NTS

BAR SIZE	3,500 PSI LW CONCRETE			4,000 PSI NW CONCRETE			4,500 PSI NW CONCRETE			
	L _d PER SPACING AND COVER			L _d PER SPACING AND COVER			L _d PER SPACING AND COVER			
	TOP BARS	OTHERS	CASE 2	TOP BARS	OTHERS	CASE 2	TOP BARS	OTHERS	CASE 2	
#3	27	21	40	19	15	28	22	18	27	21
#4	36	28	53	25	19	37	29	24	35	27
#5	44	34	66	31	24	47	36	30	44	34
#6	53	41	80	37	29	56	43	35	53	41
#7	60	47	93	44	34	63	51	40	60	47
#8	68	53	102	51	40	71	59	45	68	53
#9	77	60	115	59	47	81	68	51	77	60
#10	86	68	129	67	51	91	73	56	86	68
#11	96	77	144	76	60	101	80	62	96	77

BAR SIZE	3,500 PSI LW CONCRETE			4,000 PSI NW CONCRETE			4,500 PSI NW CONCRETE			
	LAP LENGTH PER SPACING AND COVER			LAP LENGTH PER SPACING AND COVER			LAP LENGTH PER SPACING AND COVER			
	TOP BARS	OTHERS	CASE 2	TOP BARS	OTHERS	CASE 2	TOP BARS	OTHERS	CASE 2	
#3	35	27	52	19	15	36	28	24	36	28
#4	46	36	69	25	19	48	37	32	46	36
#5	58	44	85	31	24	60	47	39	58	45
#6	69	53	103	37	29	72	56	46	69	54
#7	77	60	116	44	34	81	66	52	77	60
#8	88	68	132	51	40	93	77	61	88	68
#9	100	77	149	59	47	105	81	68	100	76
#10	112	86	168	67	51	118	95	73	112	86
#11	124	96	186	76	60	131	104	81	124	96

NOTES ON BAR SPICES

1. CASE 1 - BEAMS AND COLUMNS: CONCRETE COVER \geq db, C-C BAR SPACING \geq 2db AND WITH STIRRUPS OR TIES THROUGHOUT L_d NOT LESS THAN THE CODE MINIMUM

2. VERTICAL COLUMN REINFORCING SHALL BE A CONTINUOUS BAR WHENEVER POSSIBLE, IF SPICES ARE REQUIRED USE LAP LENGTHS SHOWN AND SUBMIT FOR ENGINEER'S APPROVAL.

3. SPICES FOR VERTICAL BARS IN WALLS SHALL BE AS SHOWN. SPICES FOR HORIZONTAL BARS SHALL BE LOCATED:

4. SPICES AND DEVELOPMENT LENGTHS FOR EPOXY COATED REBAR SHALL BE INCREASED BY 20 PERCENT FROM THE VALUES SHOWN IN THE TABLES.

5. ALL SPICES SHALL BE CLASS B TENSION LAP SPICES. (UNLESS NOTED OTHERWISE)

6. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW BARS.

7. ALL LENGTHS SHOWN ARE IN INCHES.

8. CODE REFERENCE: ACI 318-19

PRINCIPAL
David Keith
RESEARCH PLANNER

STRUCTURAL PRINCIPAL
PAUL CONSTANTINI, SE
STRUCTURAL ENGINEER
STEPHEN BARTAL

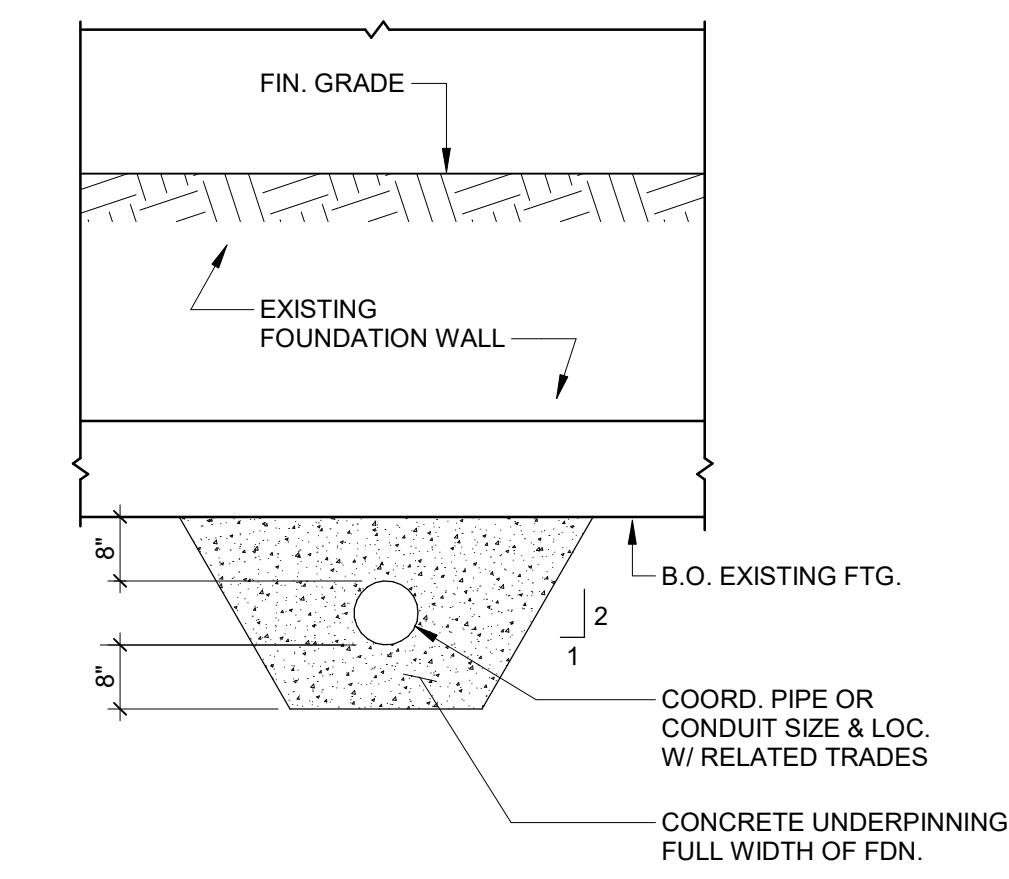
REVISIONS

NO.	BY	DESCRIPTION	DATE
D		ISSUED FOR GC BIDDING	11.08.2024
C			10.11.2024
B		ISSUED FOR OWNER'S REVIEW	09.26.2024
A		DESIGN DEVELOPMENT	05.24.2024

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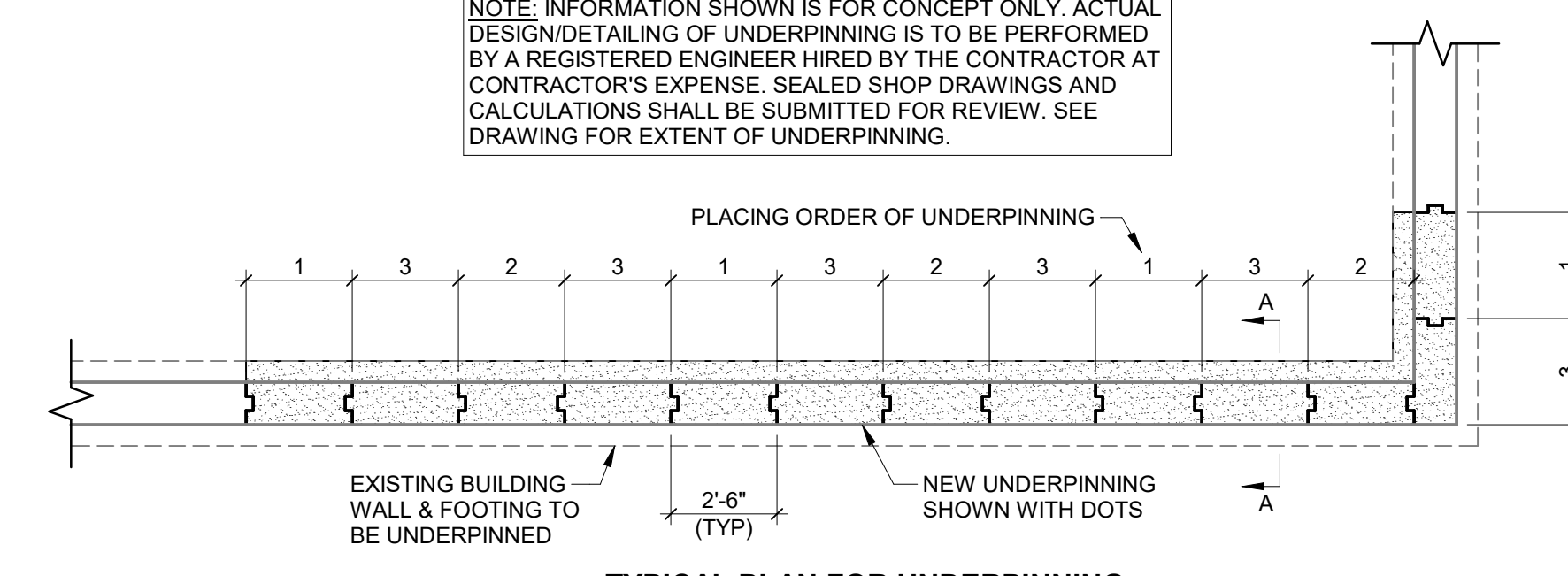
DRAWN BY	SGB	DATE	05.24.2024
PROJECT NO.	20230523	SCALE	As indicated
DRAWING NAME			
TYPICAL DETAILS			

FLOOR/SECTION PHASE DRAWING NO.

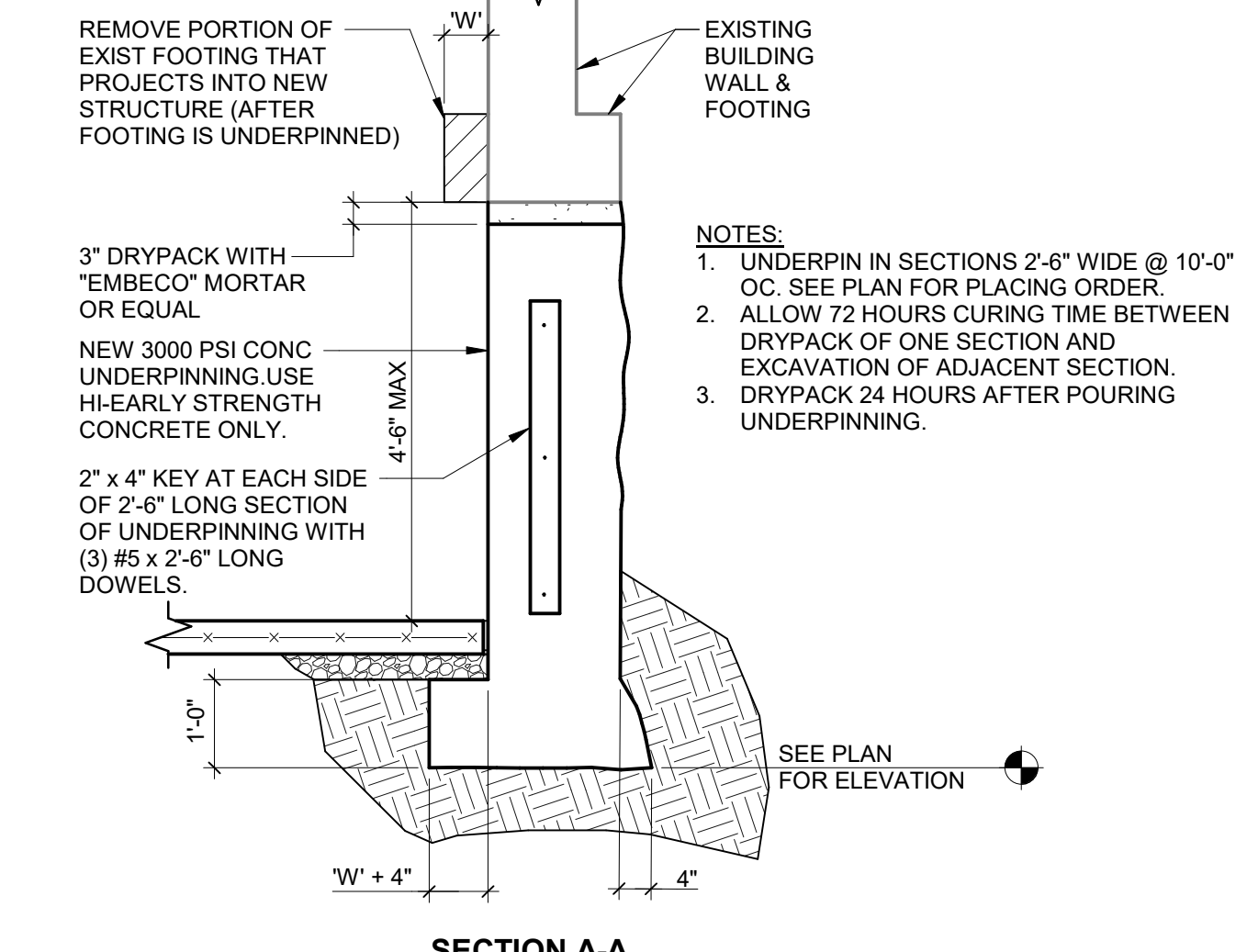


2 TYPICAL DETAIL -
PIPE/CONDUIT UNDER EXISTING FOUNDATION
SCALE: 1/2" = 1'-0"

NOTE: INFORMATION SHOWN IS FOR CONCEPT ONLY. ACTUAL DESIGN/DETAILING OF UNDERPINNING IS TO BE PERFORMED BY A REGISTERED ENGINEER HIRED BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE. SEALED SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED FOR REVIEW. SEE DRAWING FOR EXTENT OF UNDERPINNING.



TYPICAL PLAN FOR UNDERPINNING



SECTION A-A

KEY PLAN

PRINCIPAL
David Keith

RESEARCH PLANNER

STRUCTURAL PRINCIPAL
PAUL CONSTANTINI, SE
STRUCTURAL ENGINEER
STEPHEN BARTAL

REVISIONS

NO.	BY	DESCRIPTION	DATE
D		ISSUED FOR GC BIDDING	11.08.2024
C			10.11.2024
B		ISSUED FOR OWNER'S REVIEW	09.26.2024
A		DESIGN DEVELOPMENT	05.24.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY _____ SGB DATE 05.24.2024

PROJECT NO. 20230523 SCALE _____

DRAWING NAME _____

TYPICAL DETAILS

FLOOR/SECTION PHASE _____ DRAWING NO. _____

CD S5.2

NO.	DESCRIPTION	DATE
D	ISSUED FOR GC BIDDING	11.08.2024
C		10.11.2024
B	ISSUED FOR OWNER'S REVIEW	09.26.2024
A	DESIGN DEVELOPMENT	05.24.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY: SGB DATE: 05.24.2024

PROJECT NO: 20230523 SCALE: 3/4" = 1'-0"

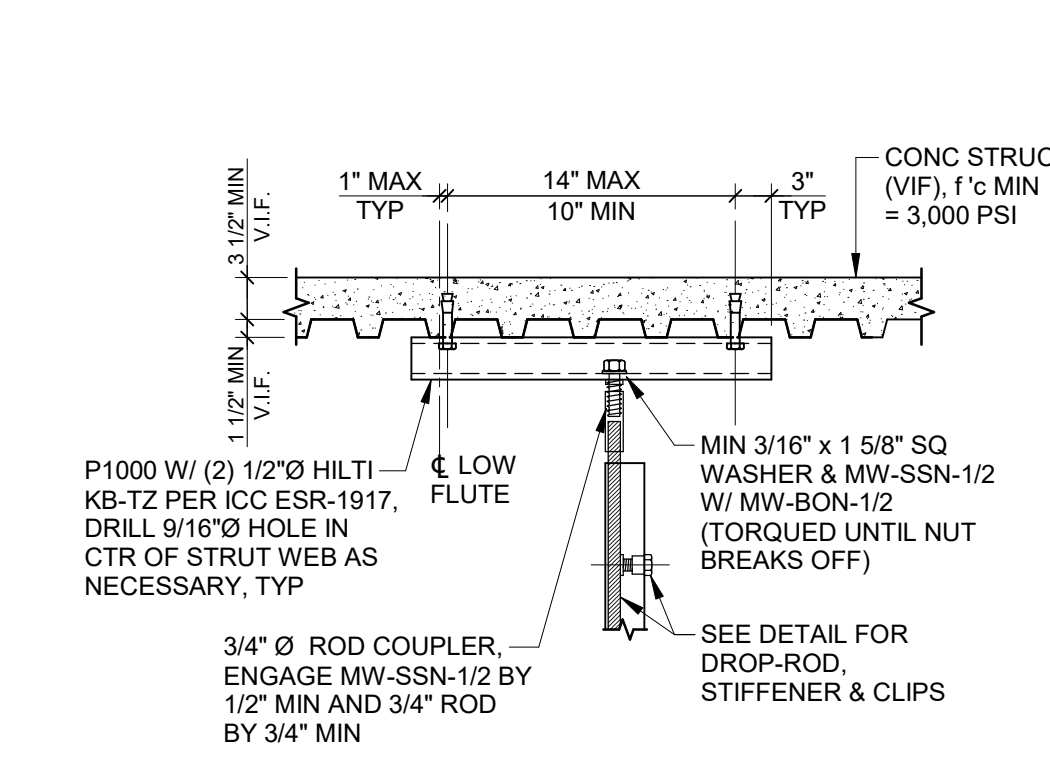
TYPICAL DETAILS

FLOOR/SECTION PHASE

DRAWING NO.

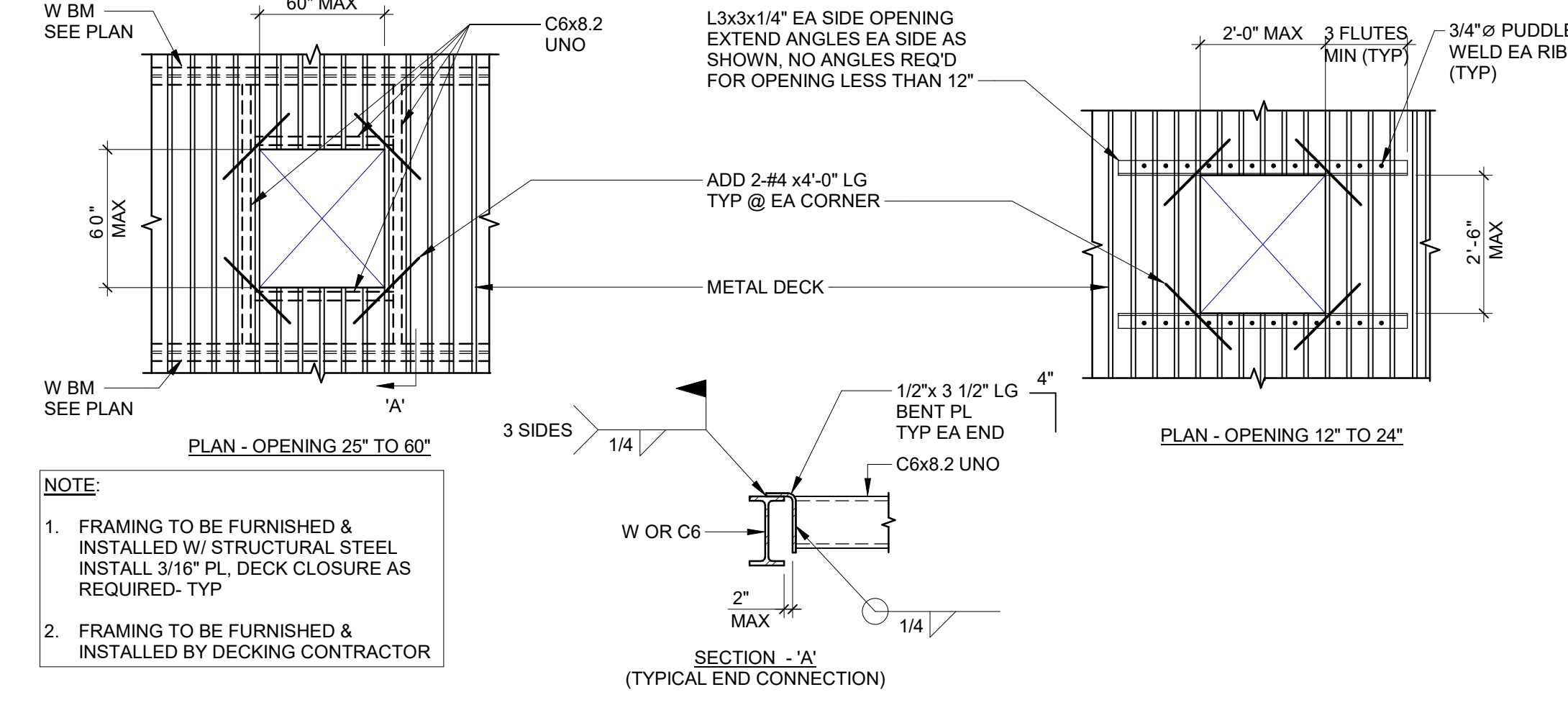
CD S5.3

NOTE:
1) CONTRACTOR TO VERIFY IN FIELD LOC OF DECK SLAB REINF, ORIF, OR DECK, & ANY BM STUDS, COORD LOC OF (N) REBAR DOWELS TO AVOID DAMAGE TO DECK SLAB REINF OR BM STUDS. TYP. NOTIFY SEOR OF ANY SAID CONFLICTS BEFORE CONST
2) SEE MECH DWGS FOR HEIGHT, SIZE & LOC OF (N) EQUIP. TYP
3) ALL REBAR DOWELS & ANCHORS INSTALLED WITH EPOXY ADHESIVE SHALL SATISFY REQMS OF ICC ESR-3187. MIN
4) ALL EQUIP PADS TO BE POURED AFTER DECK SLAB IS FULLY CURED AND FULL CONCRETE COMPRESSIVE STRENGTH HAS BEEN ACHIEVED
5) EQUIPMENT MANUFACTURER SHALL PROVIDE SEISMIC ANCHORAGE DETAILS AND CALCULATIONS SIGNED AND STAMPED BY A CIVIL ENGINEER LICENSED IN

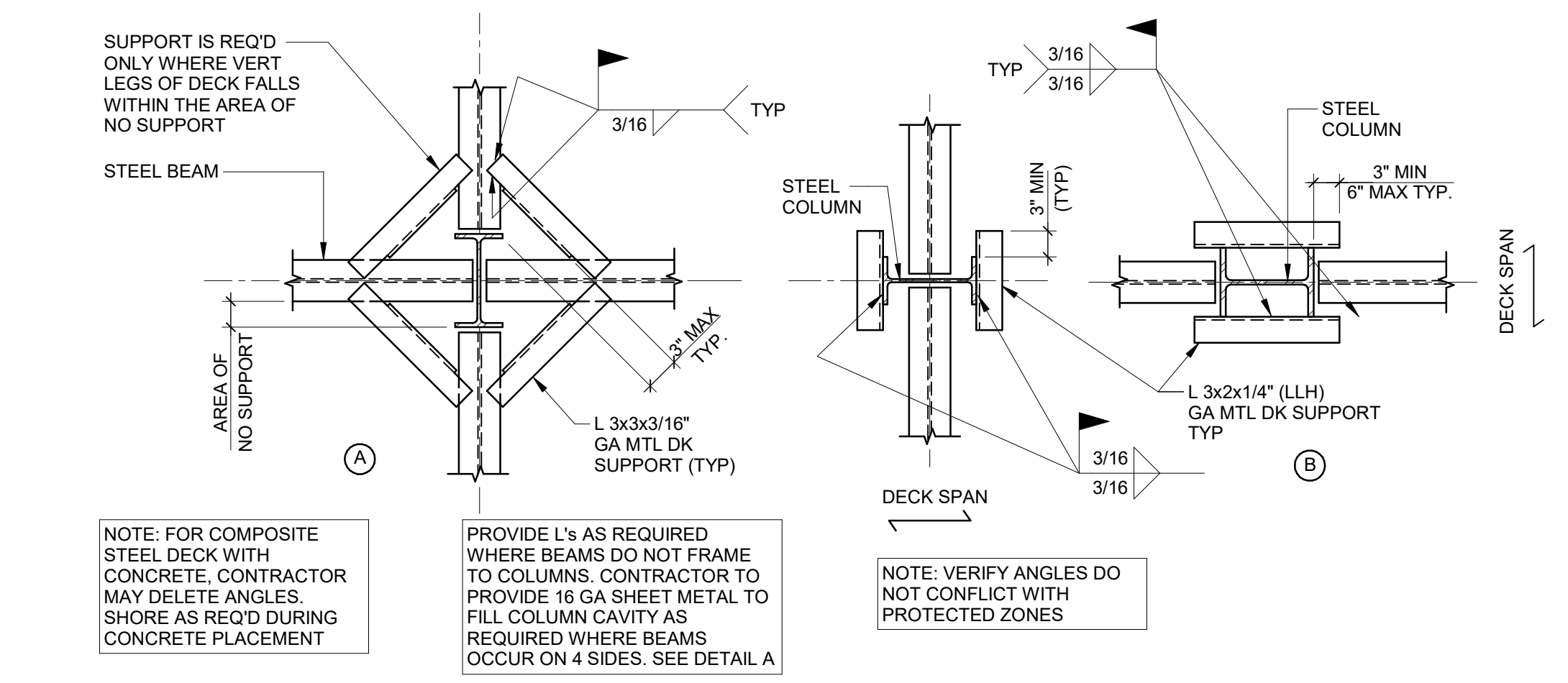


10 TYPICAL DETAIL
SCALE: NTS

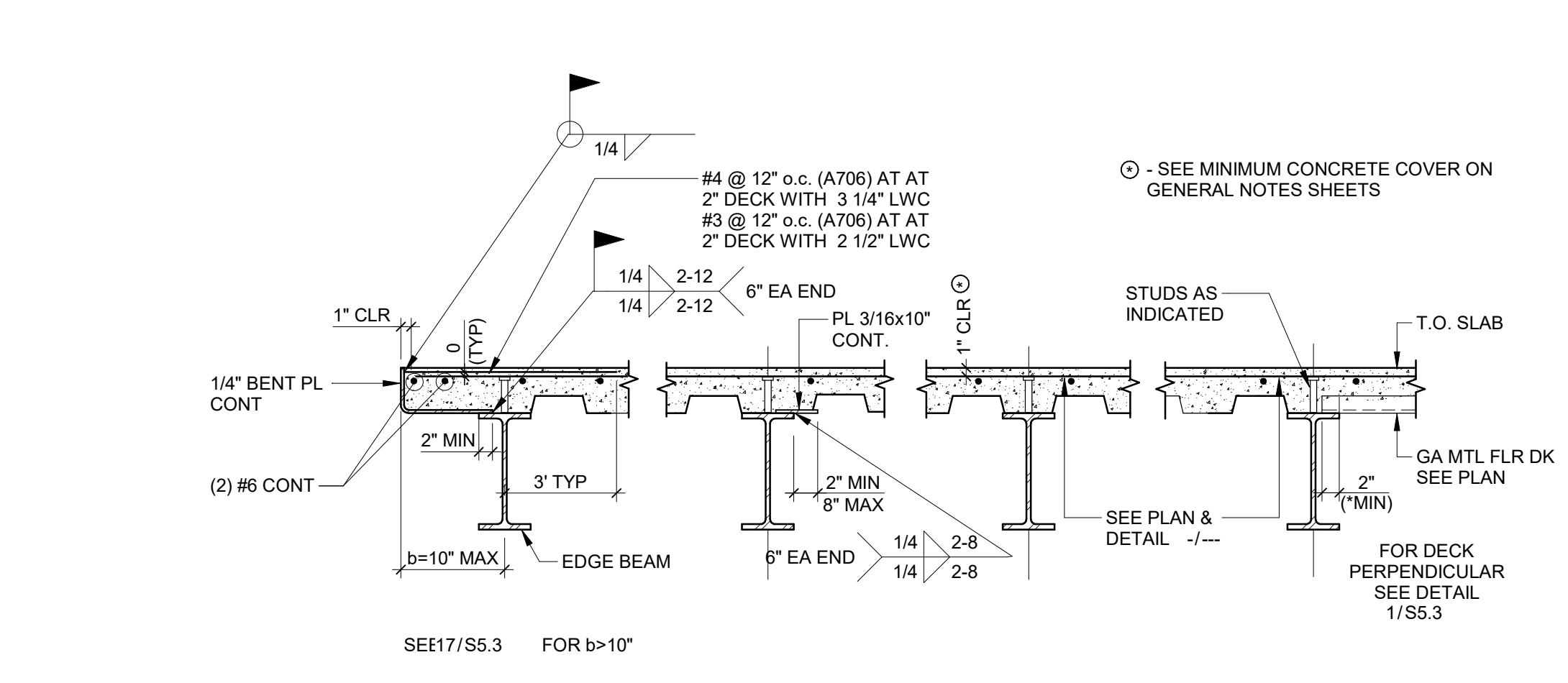
5 TYPICAL DETAIL - MECHANICAL EQUIPMENT PAD ON FLOOR DECK
SCALE: NTS



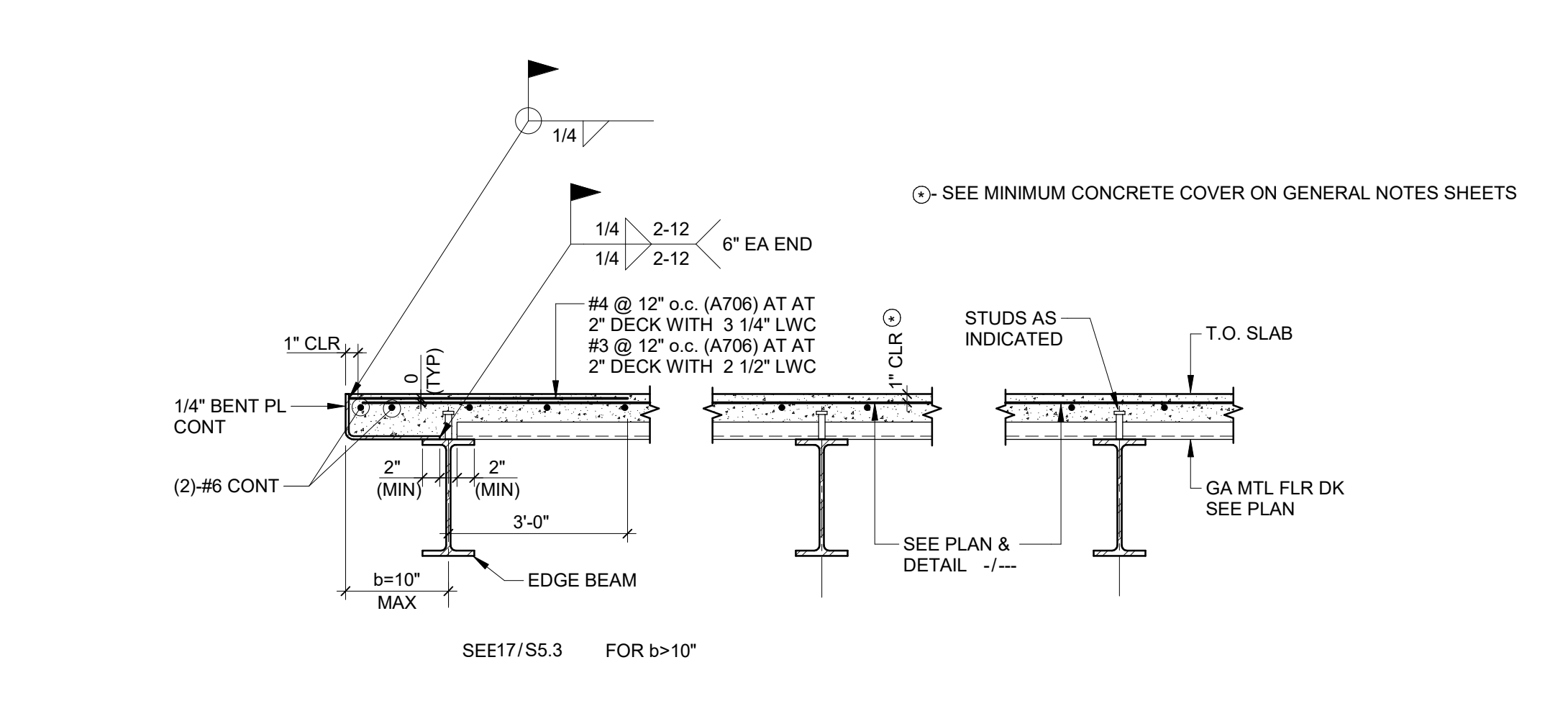
4 TYPICAL DETAIL - OPENING IN METAL DECKING
SCALE: NTS



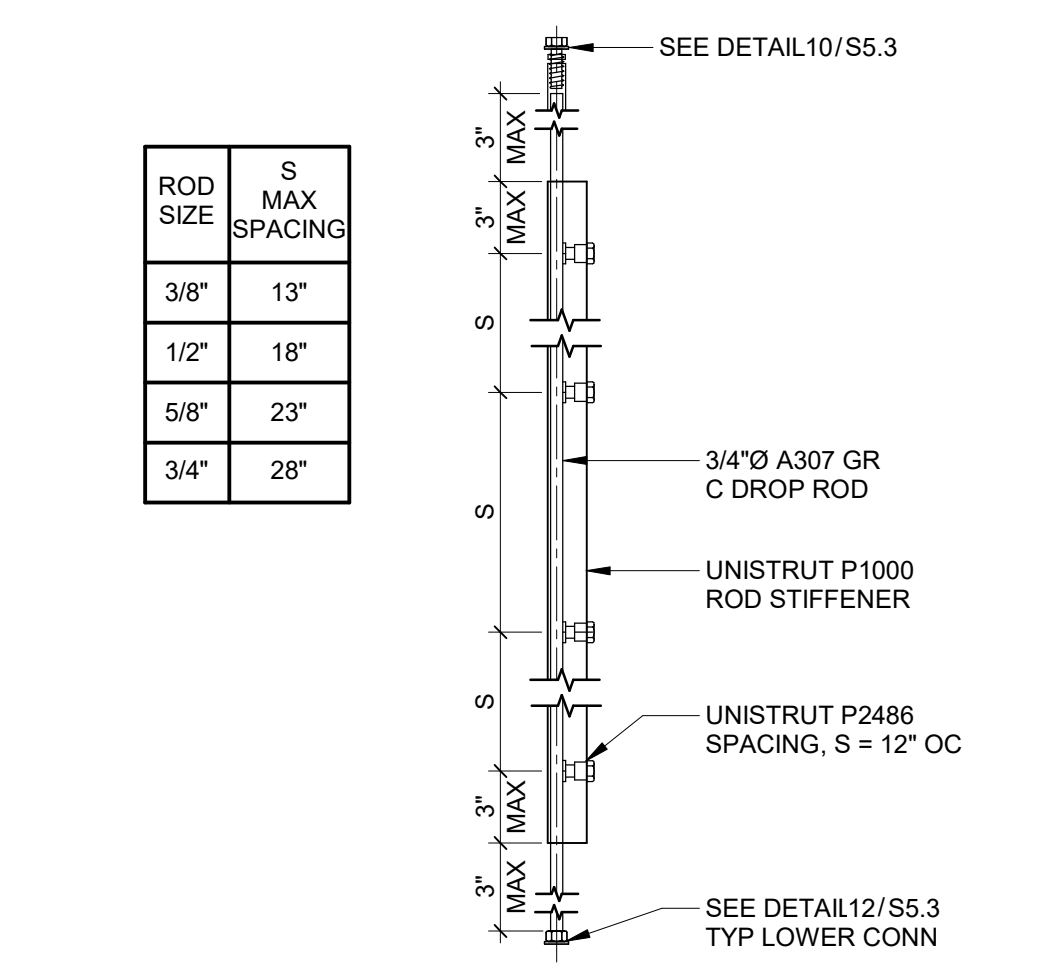
3 TYPICAL DETAIL - METAL DECK SUPPORT @ COLUMN
SCALE: NTS



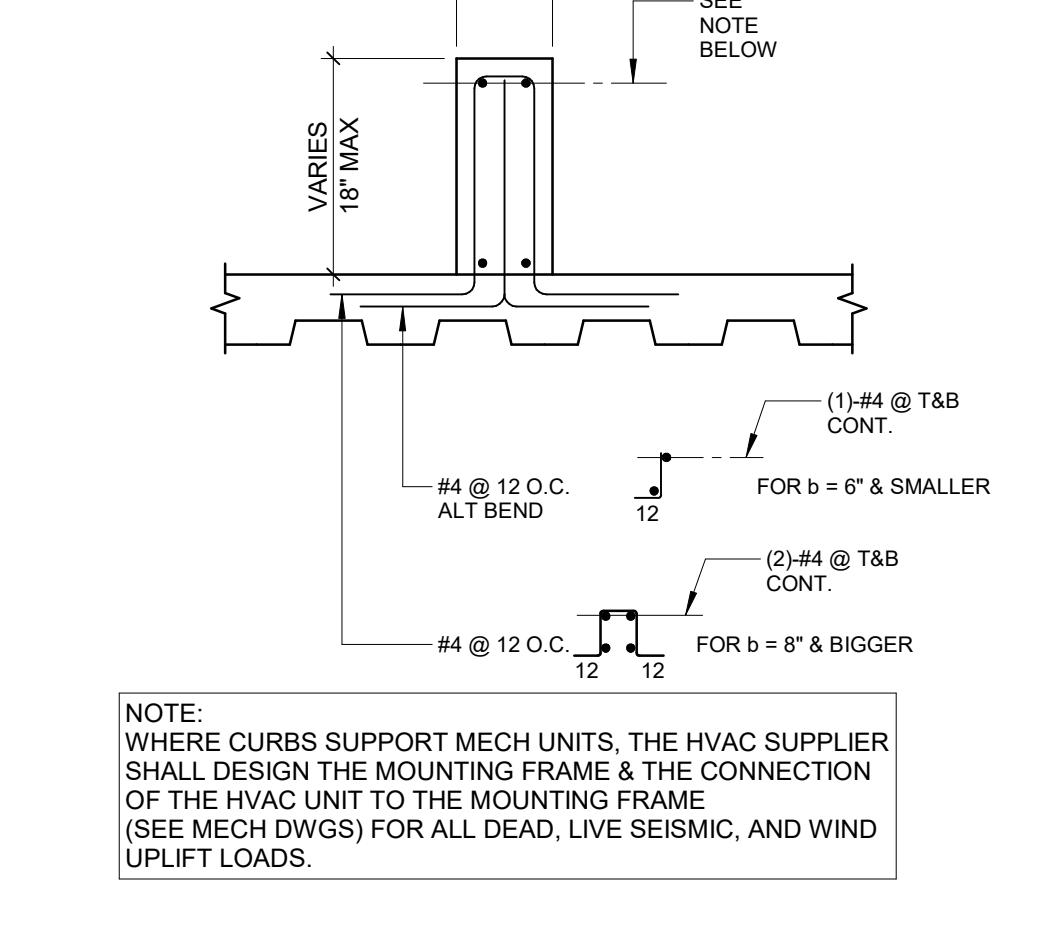
2 TYPICAL DETAIL - METAL DECK PARALLEL TO BEAM OR GIRDER
SCALE: NTS



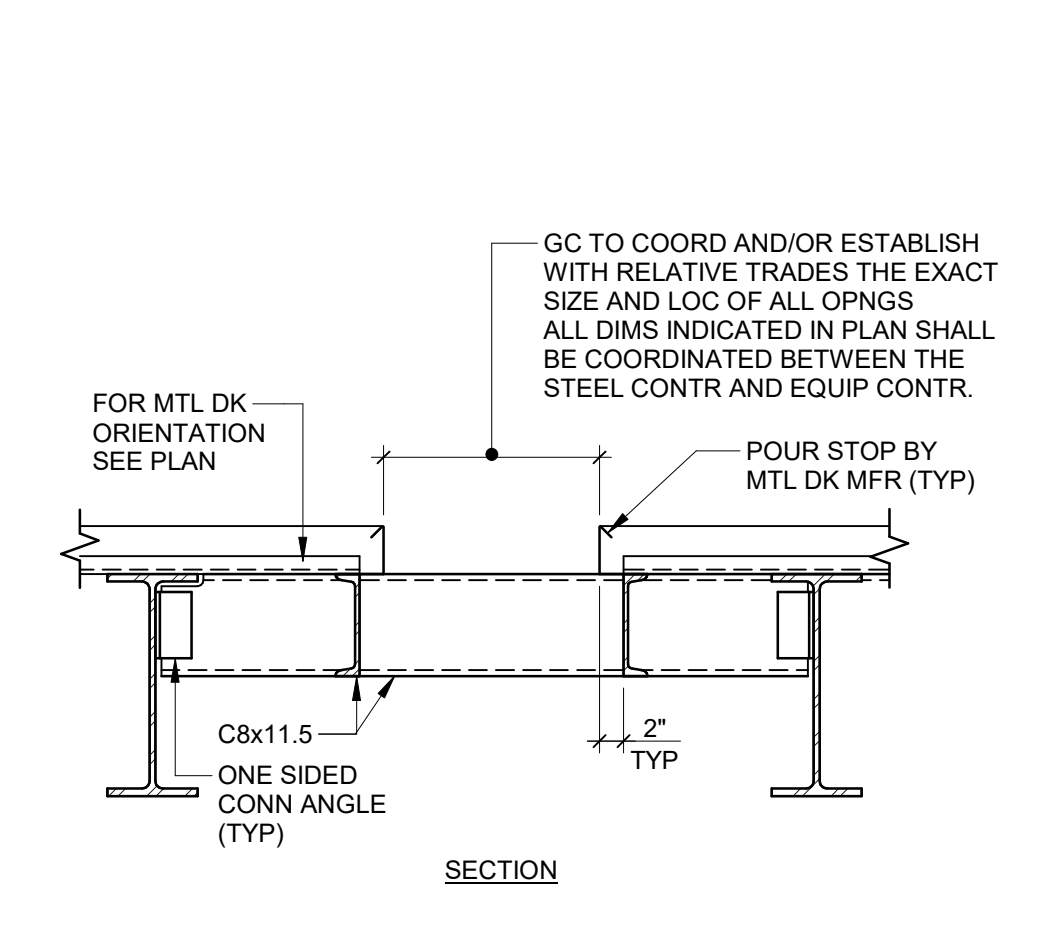
1 TYPICAL DETAIL - METAL DECK PERPENDICULAR TO BEAM OR GIRDER
SCALE: NTS



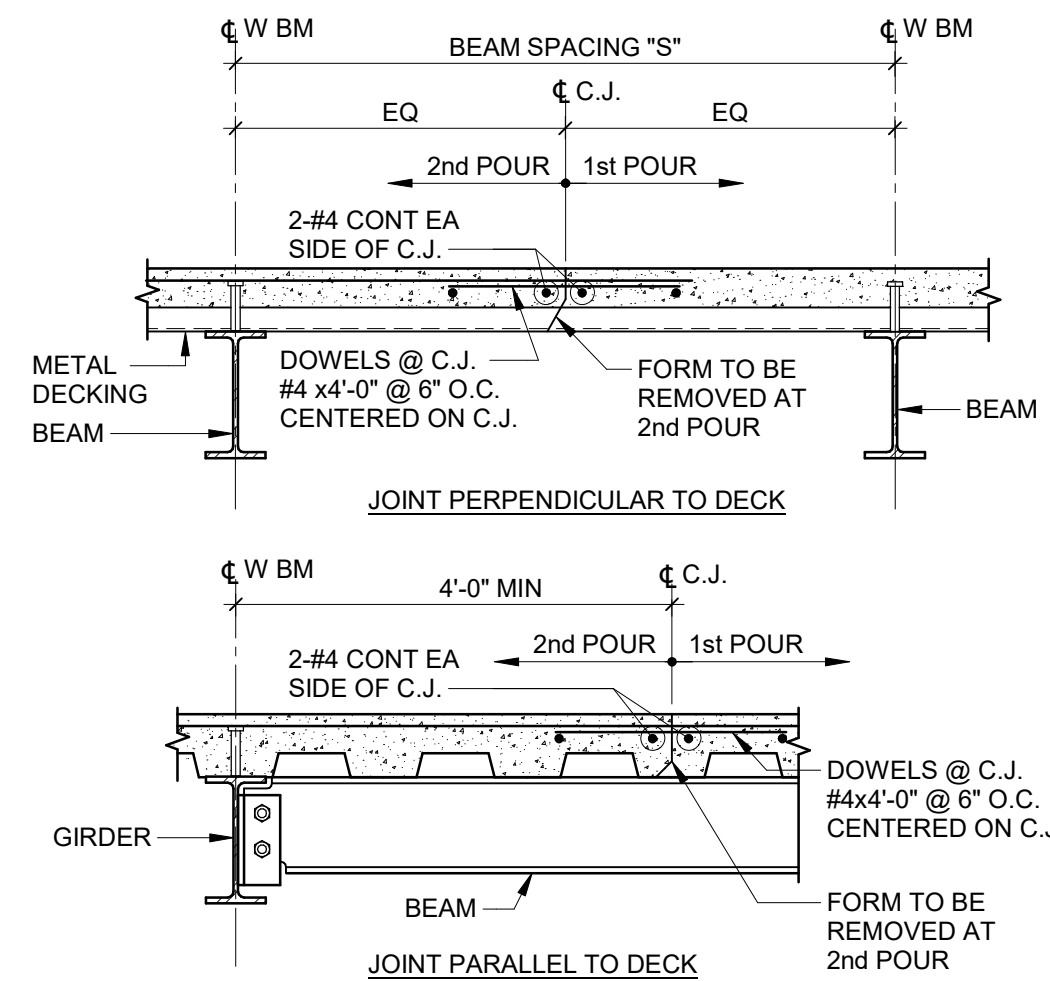
9 TYPICAL DETAIL - DROP-ROD
SCALE: NTS



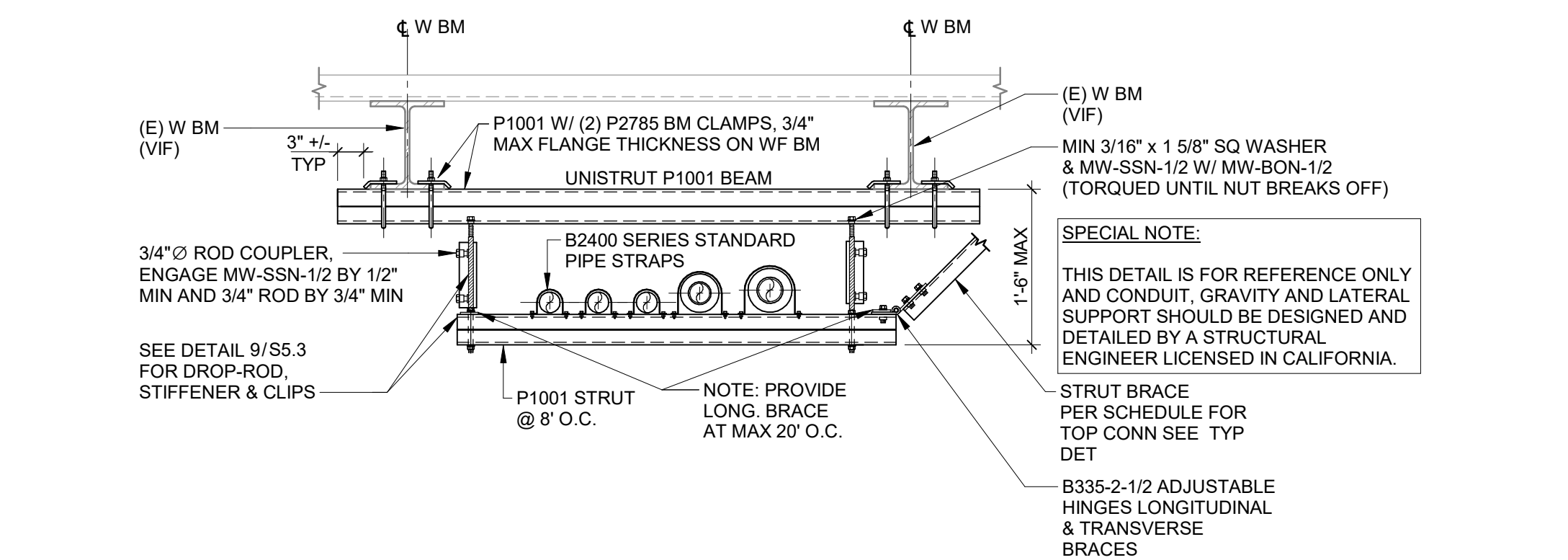
8 TYPICAL DETAIL - CONCRETE CURB AT SLAB ON DECK
SCALE: NTS



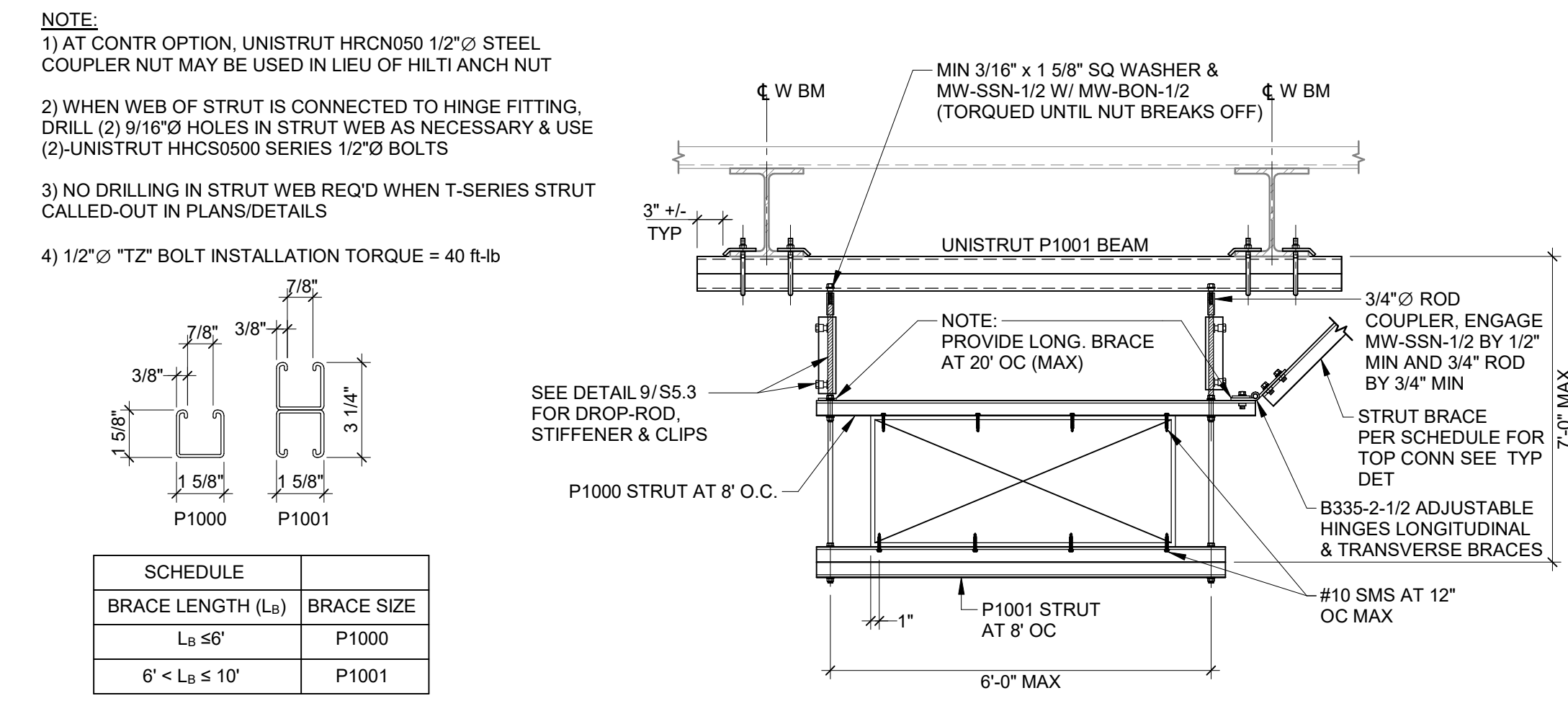
7 TYPICAL DETAIL - SHAFT (ROOF) OPENING
SCALE: NTS



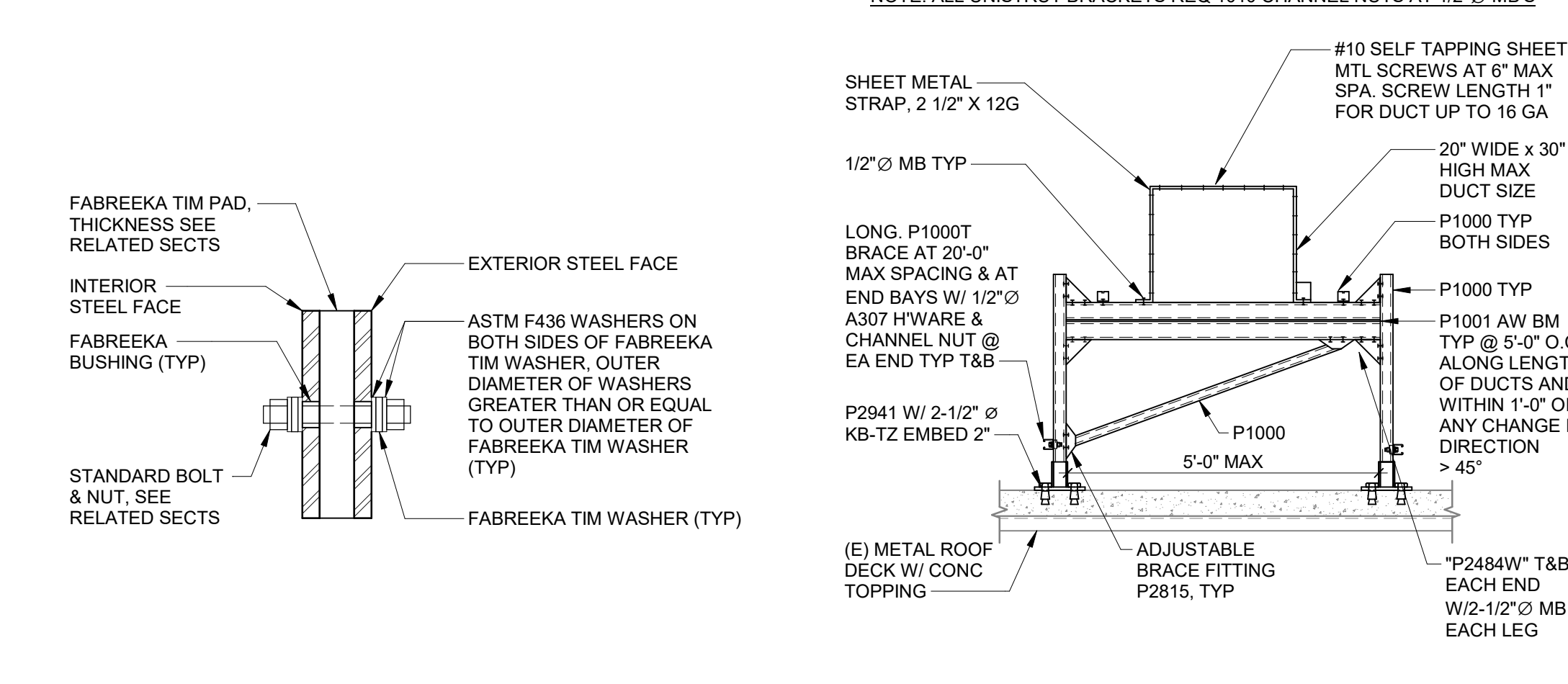
6 TYPICAL DETAIL - CONSTRUCTION JOINT FOR SLAB
SCALE: NTS



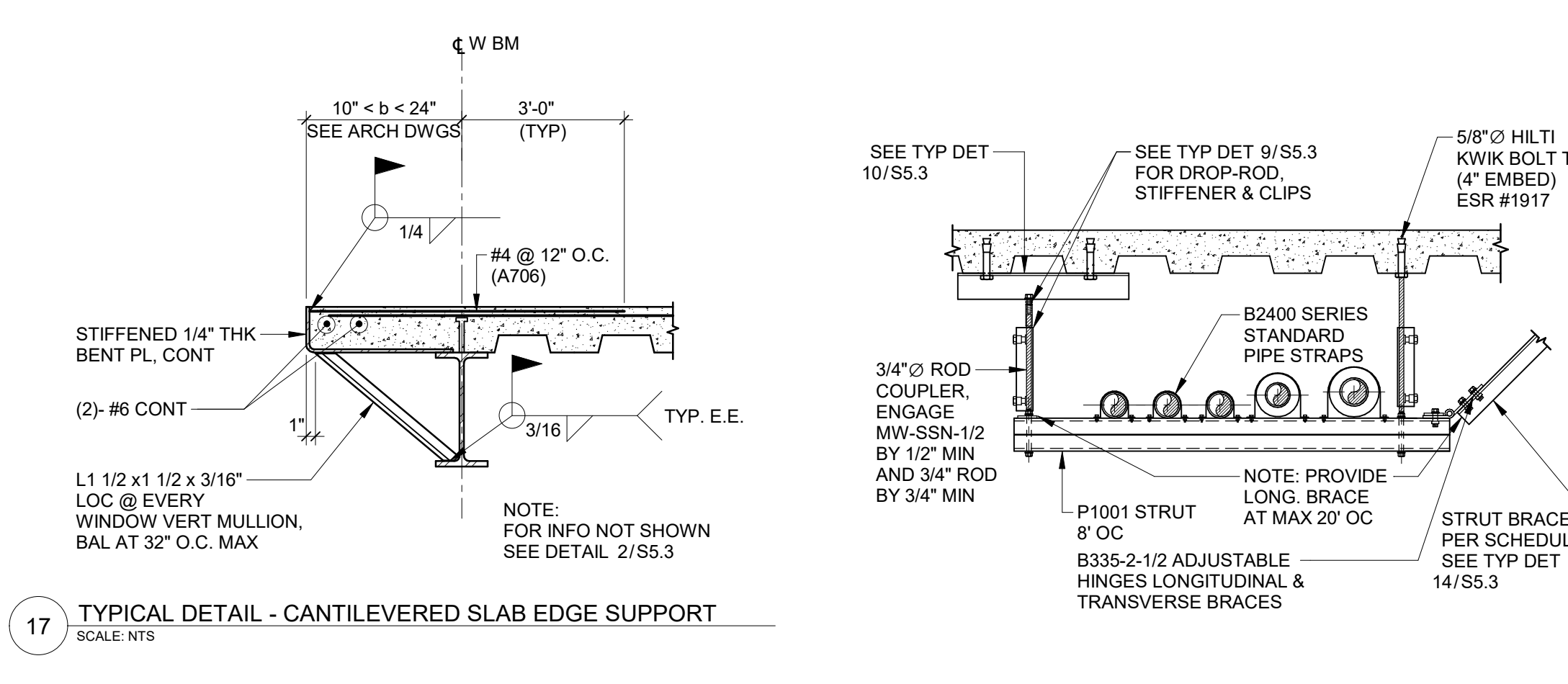
15 TYPICAL DETAIL - PIPE SUPPORT ON (E) W BEAM
SCALE: NTS



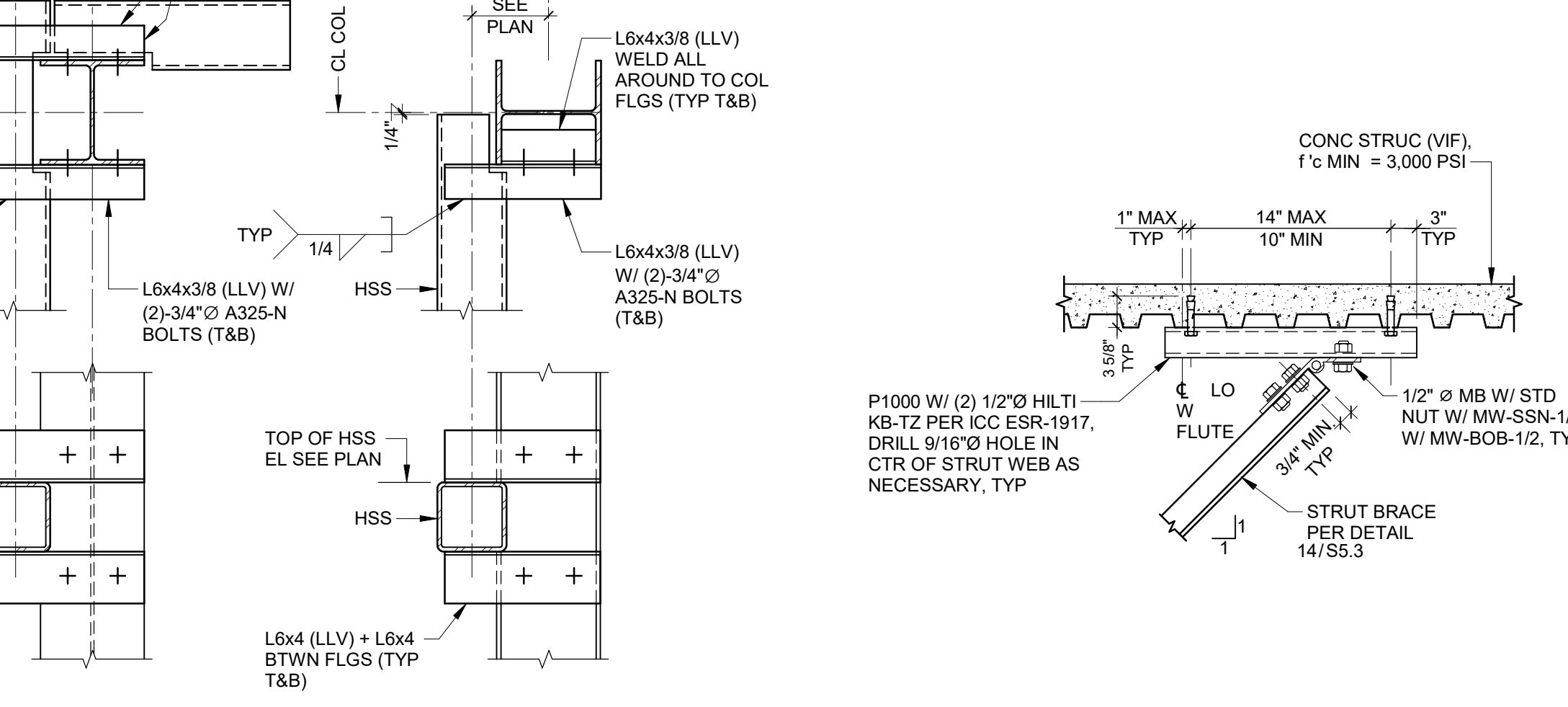
14 TYPICAL DETAIL - CEILING DUCT SUPPORT (E) W BEAM
SCALE: NTS



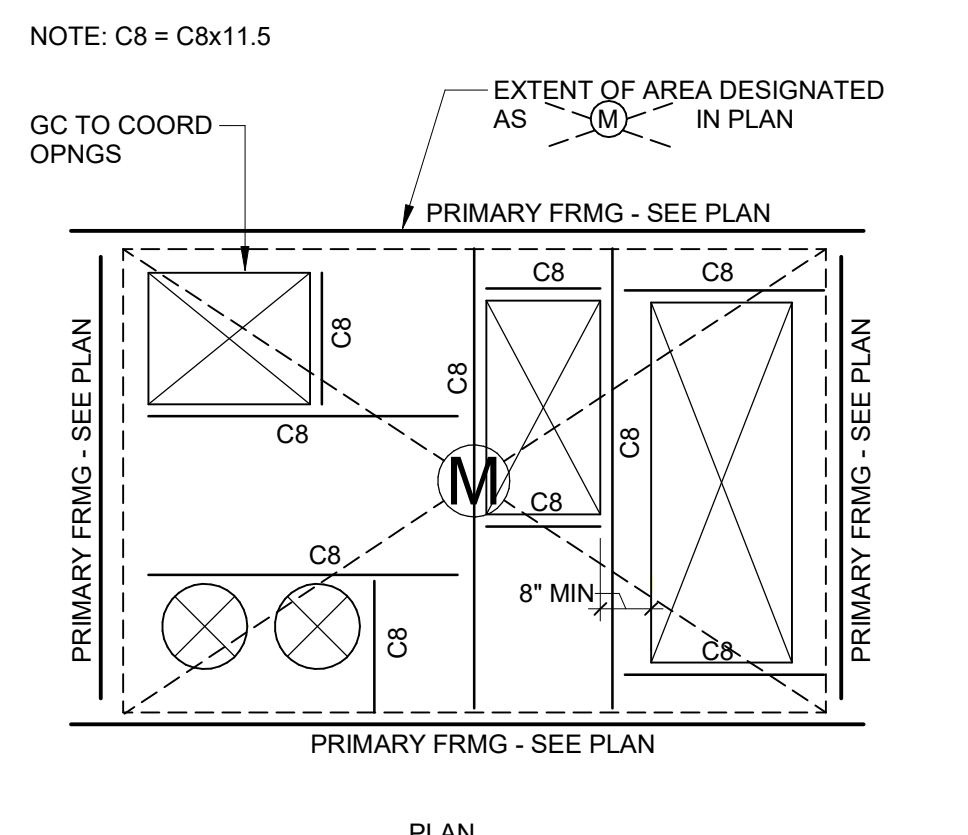
18 TYPICAL DETAIL - THERMAL BREAK PAD
SCALE: NTS



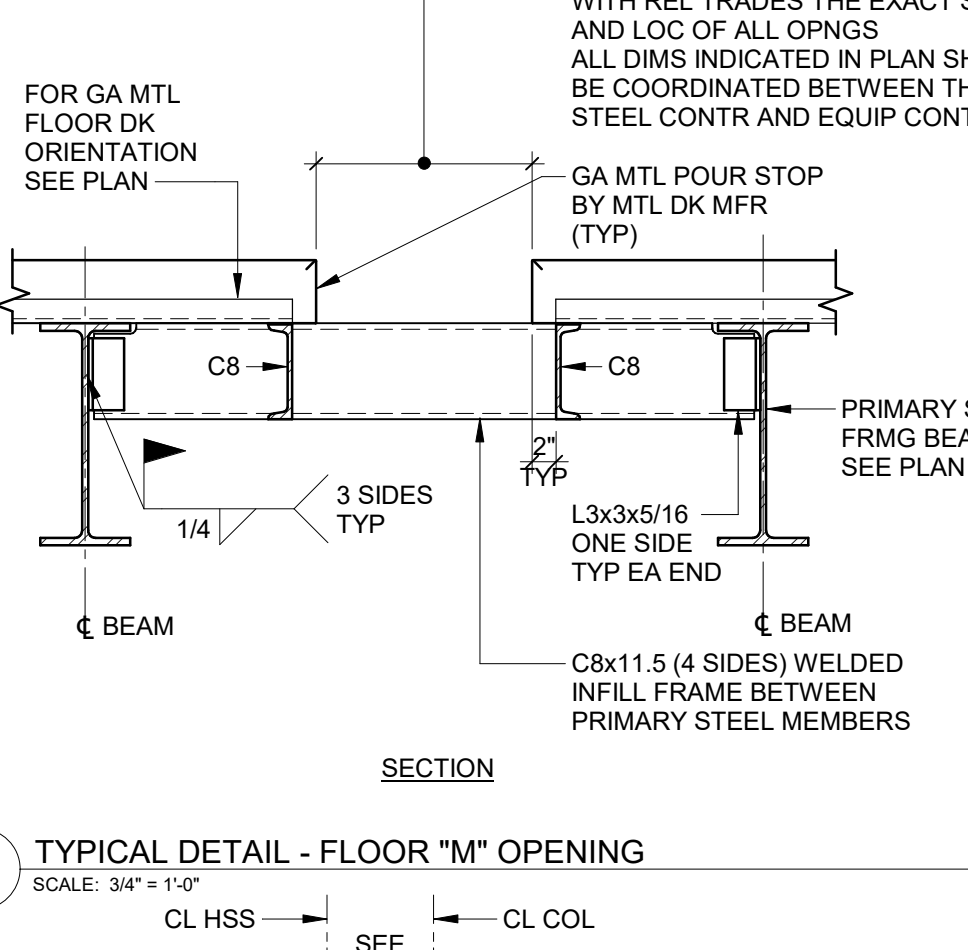
13 TYPICAL DETAIL
SCALE: NTS



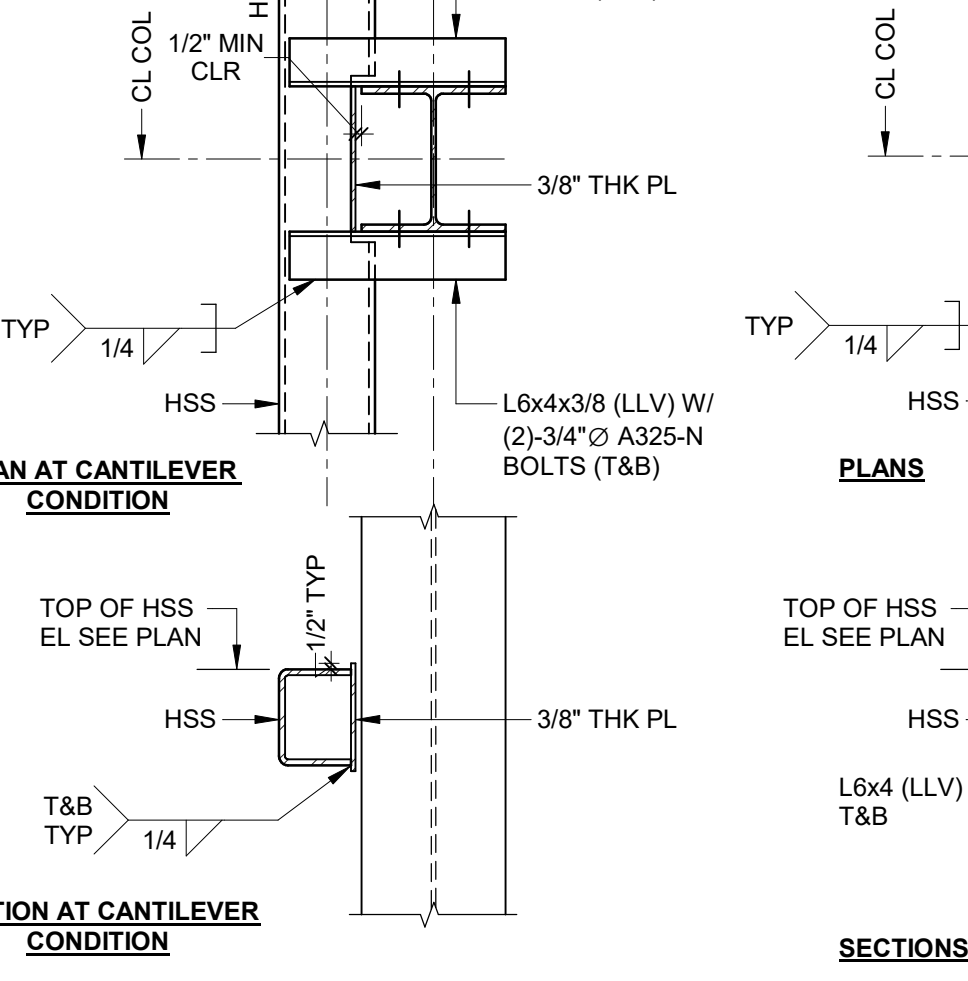
12 TYPICAL DETAIL
SCALE: NTS



19 TYPICAL DETAIL - FLOOR 'M' OPENING
SCALE: 3/4" = 1'-0"



17 TYPICAL DETAIL - CANTILEVERED SLAB EDGE SUPPORT
SCALE: NTS



16 TYPICAL DETAIL - HSS GIRT TO COLUMN CONNECTION
SCALE: NTS

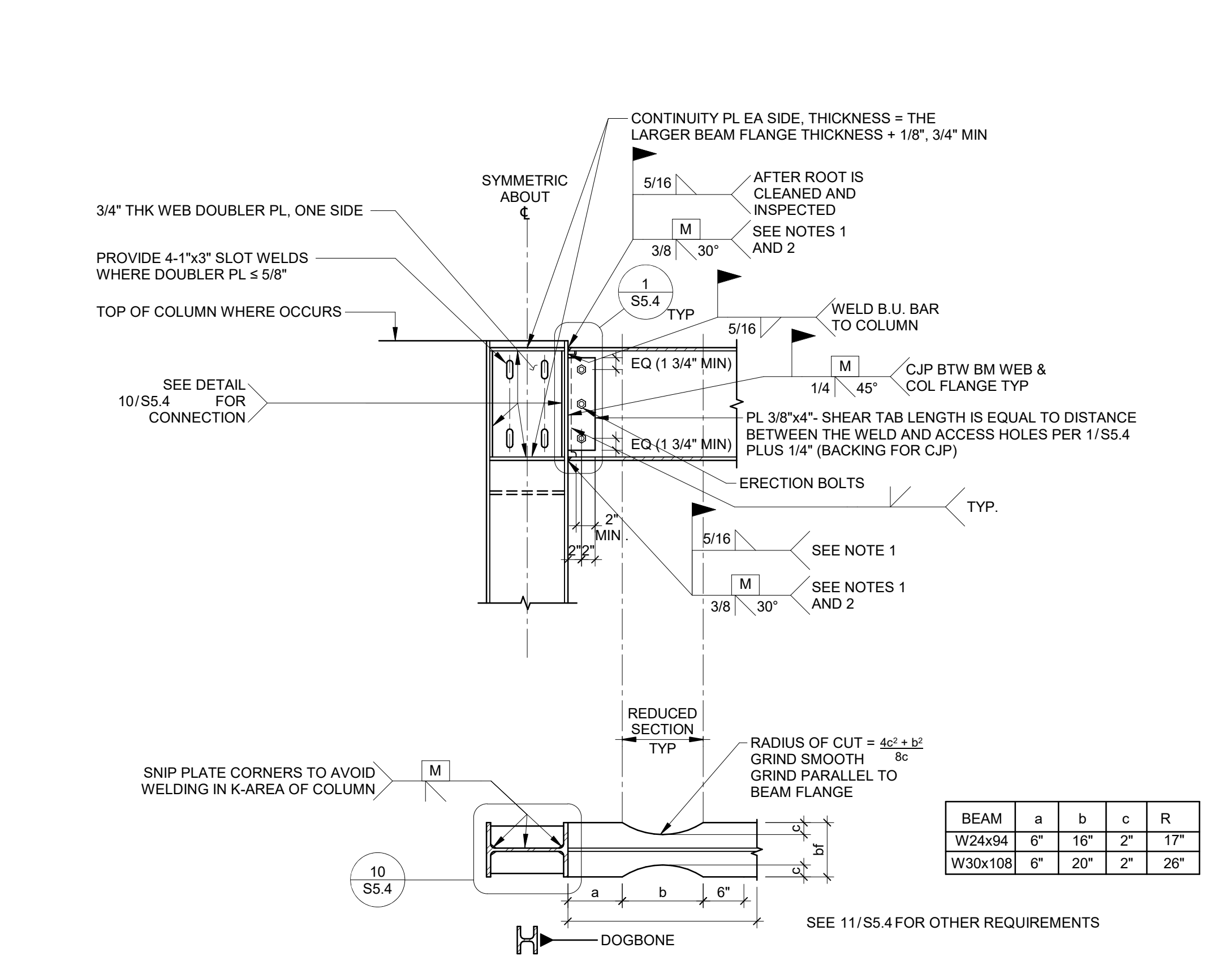
11/11/2024 8:52:51 AM Autodesk Docs://20230523 - Southern Nevada Health District MLK ES-3 (4/8/2023) S5.3 - CD - CENTRAL.VT

NOT FOR CONSTRUCTION

11/11/2024 8:52:56 AM Autodesk Docs://20230523 - South Nevada Health District MLK S5.3 LAB/20230523_S22_CENTRAL.VT

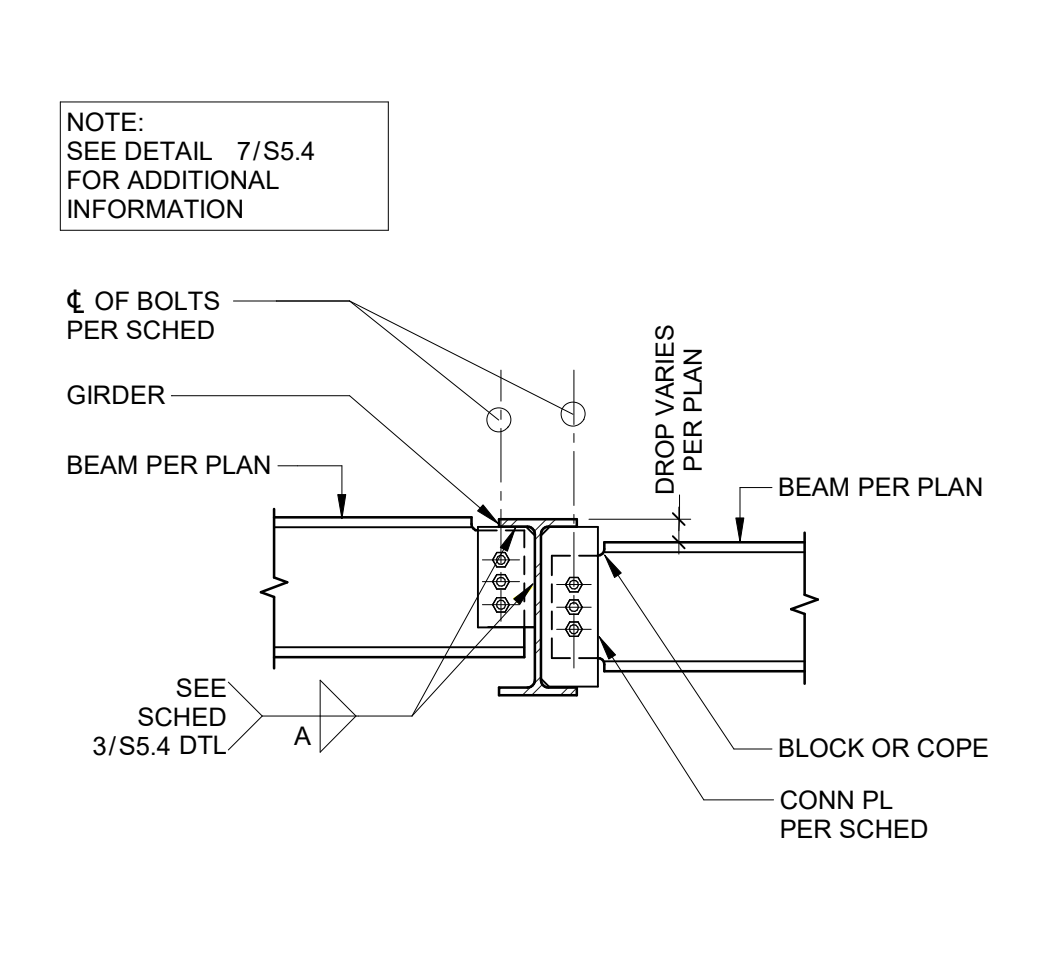
BEAM SIZE	SHEAR PLATE THICKNESS	BOLTS			WELD "A"	LRFD STRENGTH CAPACITY (KIPS)
		No.	DIA.	TYPE		
W8, W10	5/16"	2	7/8"	A325N	1/4"	26.1
W12, W14	5/16"	3	7/8"	A325N	1/4"	39.1
W16, W18	1/2"	4	7/8"	A325N	5/16"	57.7
W21	1/2"	5	7/8"	A325N	5/16"	72.2
W24	1/2"	6	7/8"	A325N	3/8"	86.6
W27	5/8"	7	7/8"	A325N	3/8"	101
W30	5/8"	8	7/8"	A325N	3/8"	115
W33, W36	5/8"	9	1"	A325N	3/8"	130

- NOTES:**
- THIS SCHEDULE APPLIES TO GRAVITY LOAD BEAM.
 - FILET WELDS INDICATED FOR SHEAR PLATE WELDING SHALL BE REPLACED WITH FULL PENETRATION GROOVE WELDS WHERE SKEWED BEAM CONNECTION WITH ANGLES SMALLER THAN 60 DEG. (BETWEEN BEAM AND GIRDER) OCCUR. TYP. UNO.
 - FOR DRAG CONNECTION, SEE DETAIL 2/SS.4

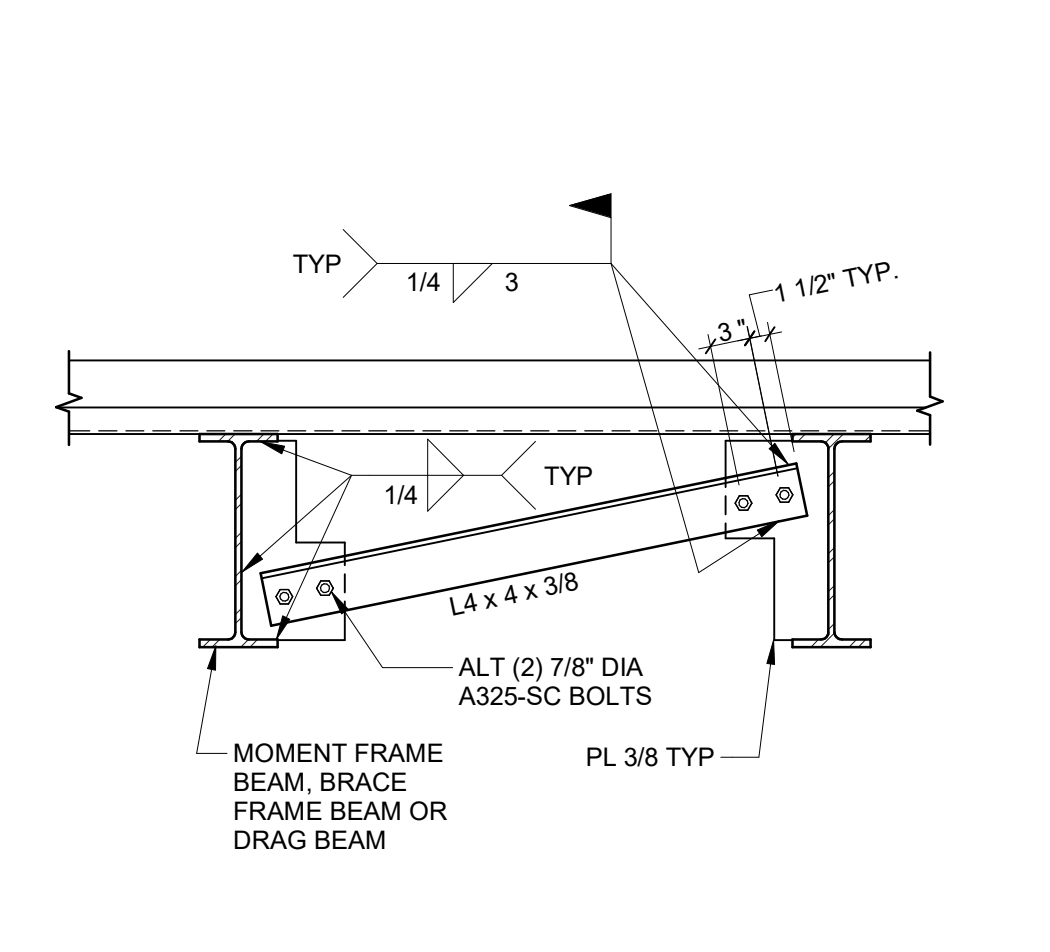


- NOTES:**
- REMOVE BACKING AT BOTTOM FLANGE, ROOT PASS SHALL BE BACKGROUNDED TO SOUND WELD AND BACKWELDED WITH REINFORCING FILLET AS SHOWN.
 - BACKING AT BEAM FLANGE TO COLUMN FLANGE SHALL NOT BE WELDED TO THE UNDERSIDE OF THE BEAM FLANGE, NOR SHALL TACK WELDS BE PERMITTED AT THIS LOCATION.
 - ALL GROOVE WELDS, ELECTRODES MUST BE RATED FOR CVN OF AT LEAST 20 FT-LSB AT 0 DEGS. F. FOR SMRF. COLUMN & BEAM ALL WELDING SHALL CONFORM TO AWS D1.8. LATEST EDITION.
 - REFER TO SHEET SG.3 FOR ALL WELDS THAT DEMAND CRITICAL WELDS & REQUIRE QC/QA

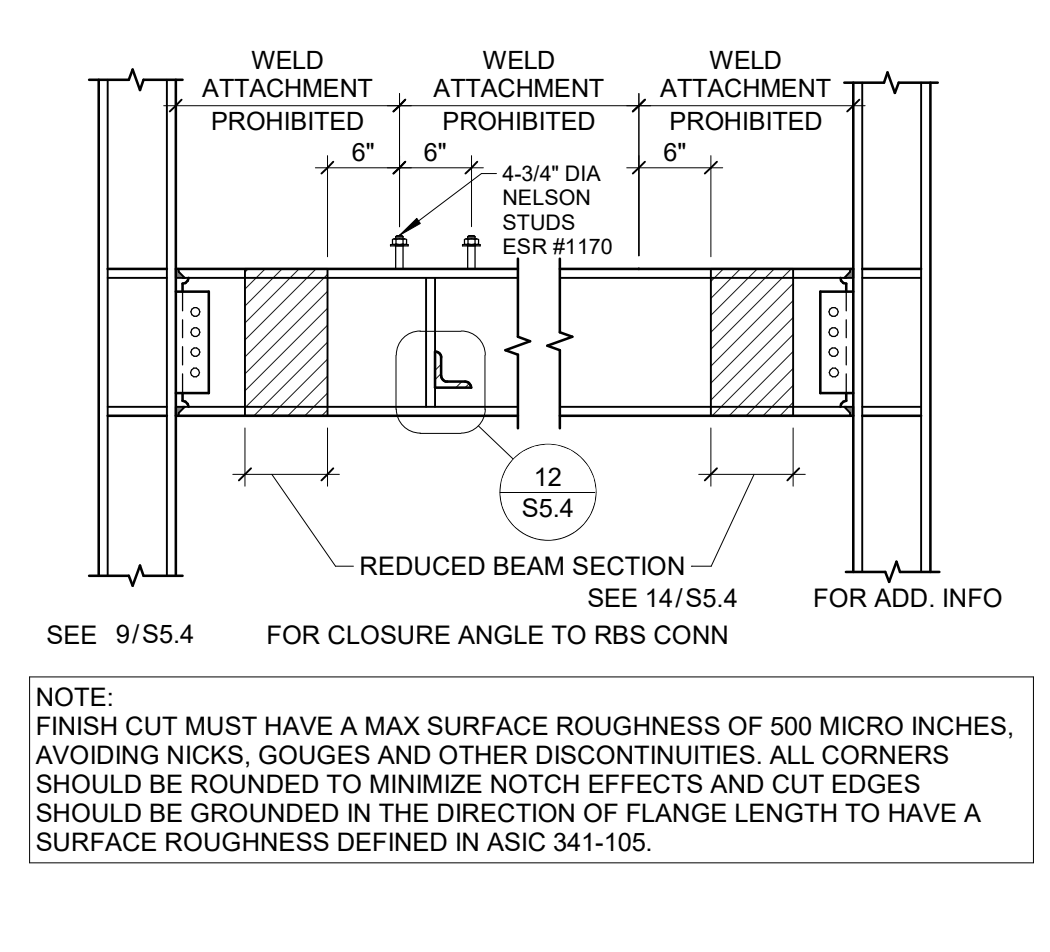
16 TYPICAL DETAIL - ONE SIDE RBS MOMENT CONNECTION
SCALE: NTS



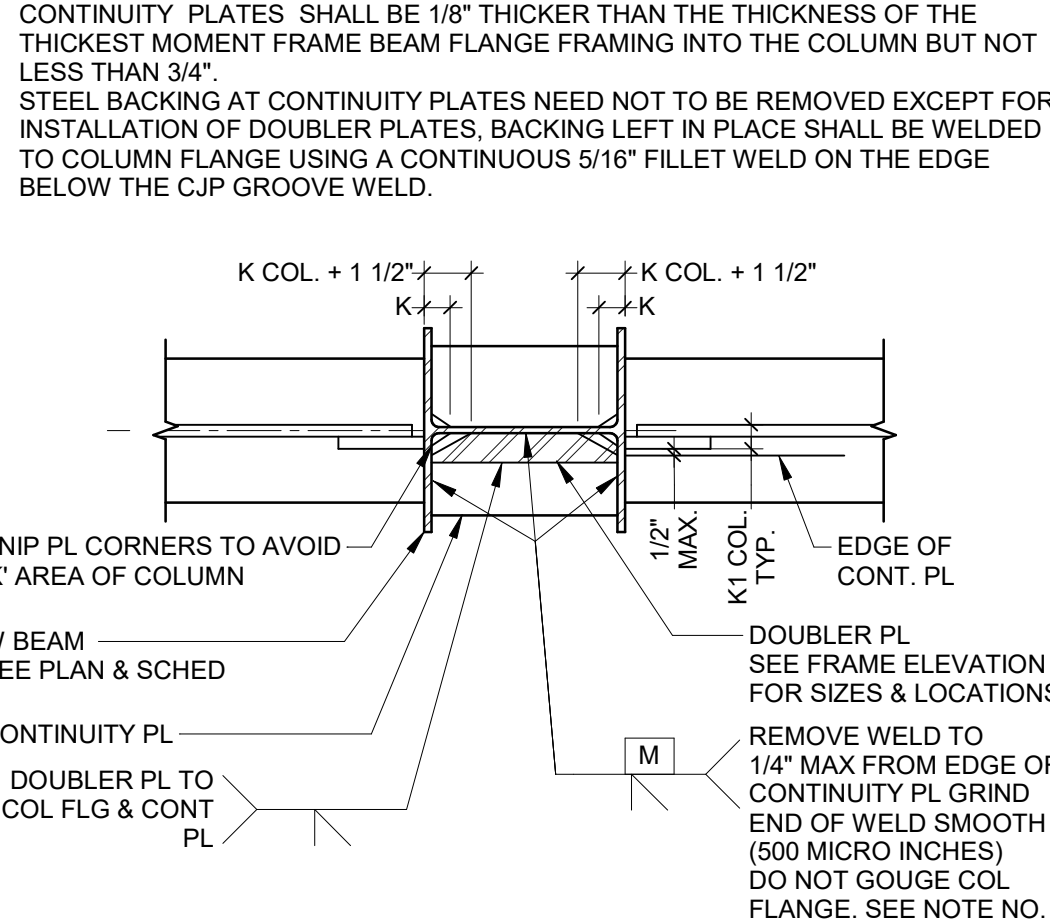
13 TYPICAL DETAIL - DROPPED BEAM
SCALE: NTS



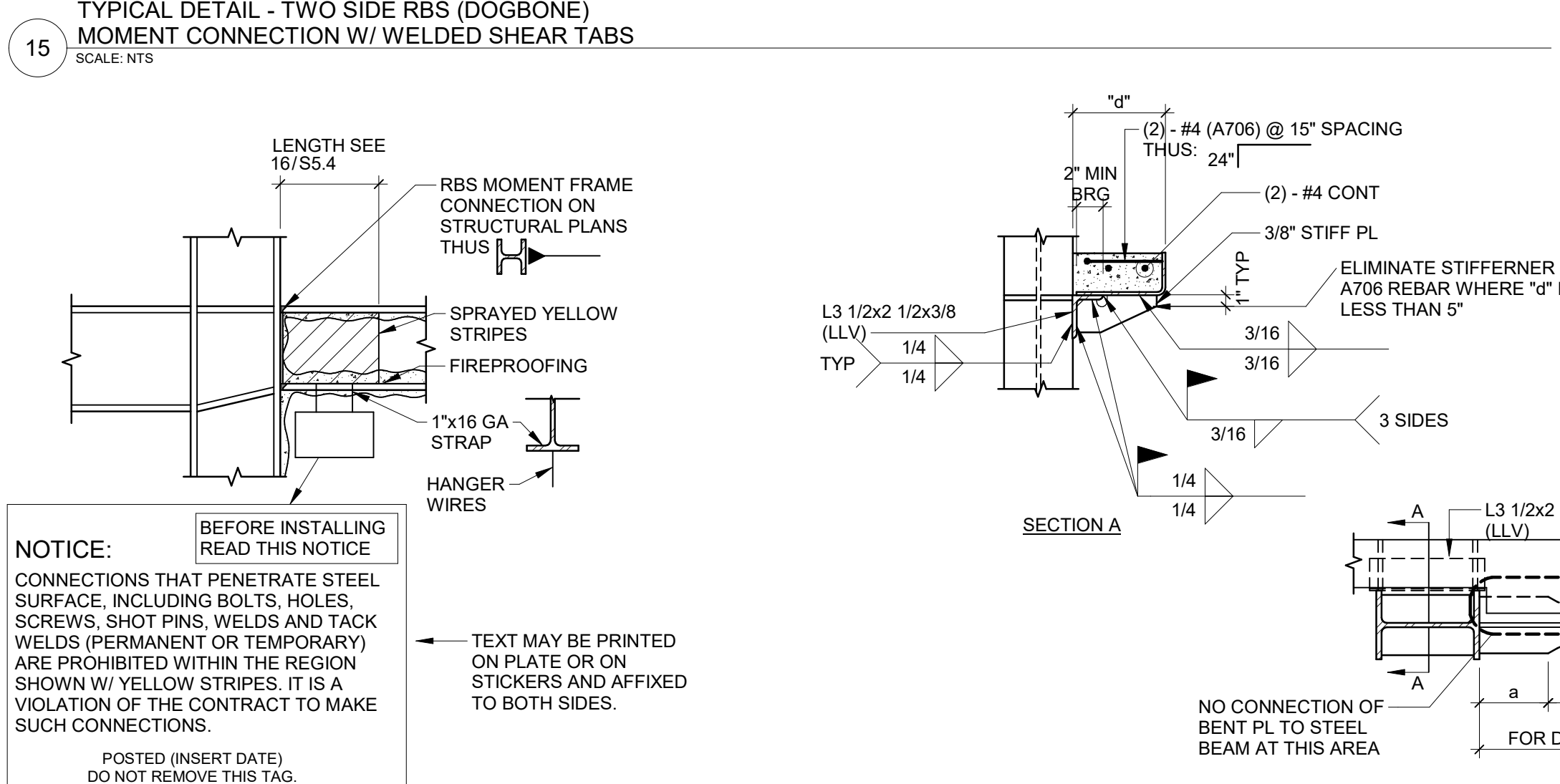
12 TYPICAL DETAIL - BEAM BRACE
SCALE: NTS



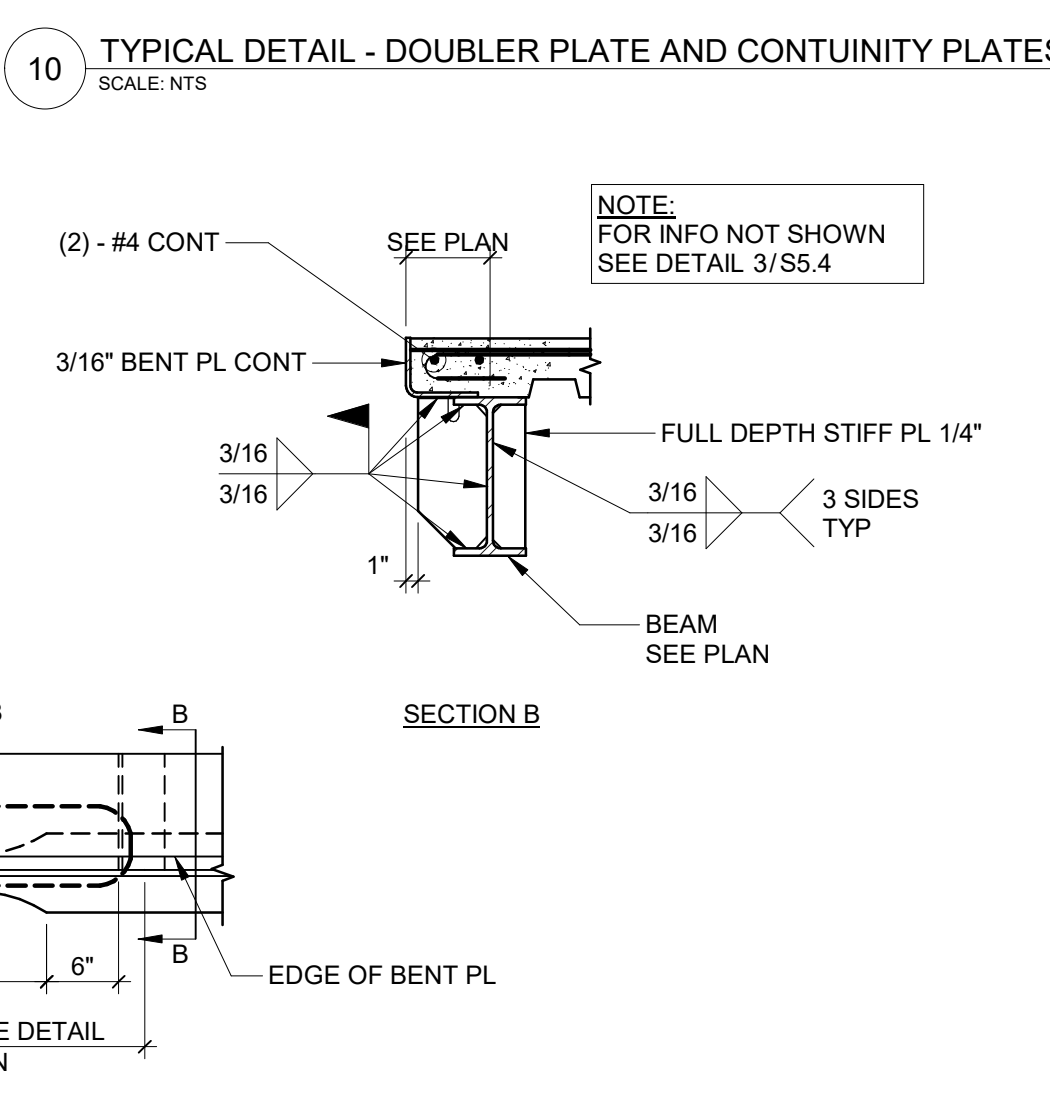
11 TYPICAL DETAIL - WELDED ATTACHMENT TO "RBS" BEAMS
SCALE: NTS



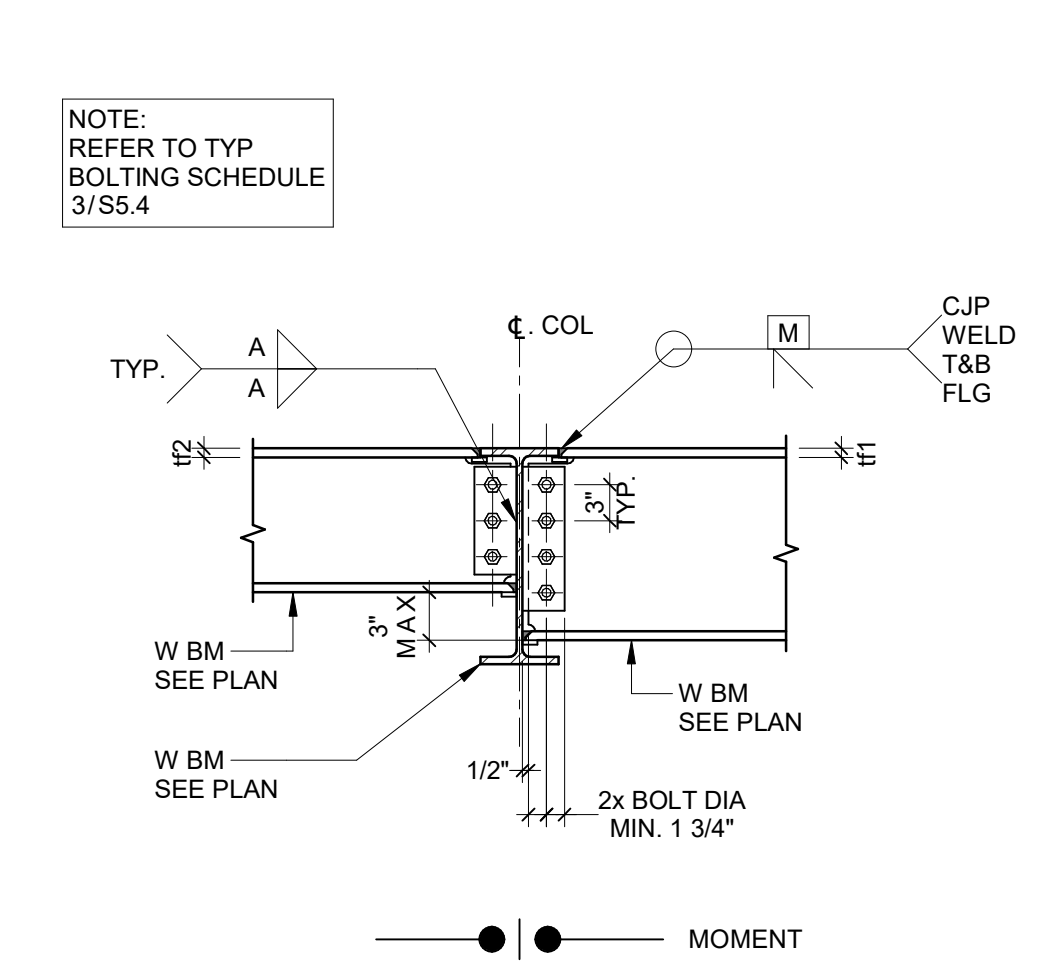
10 TYPICAL DETAIL - DOUBLER PLATE AND CONTINUITY PLATES
SCALE: NTS



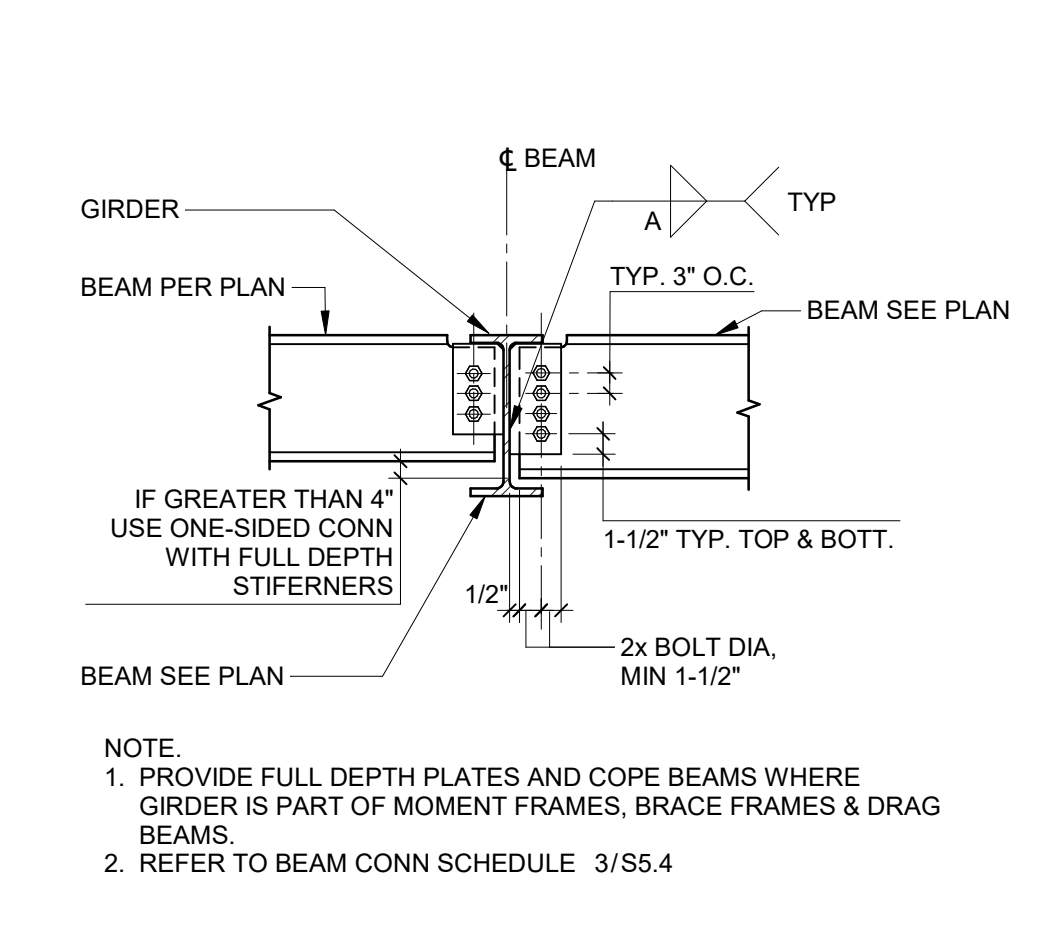
15 TYPICAL DETAIL - TWO SIDE RBS (DOGBONE) MOMENT CONNECTION W/ WELDED SHEAR TABS
SCALE: NTS



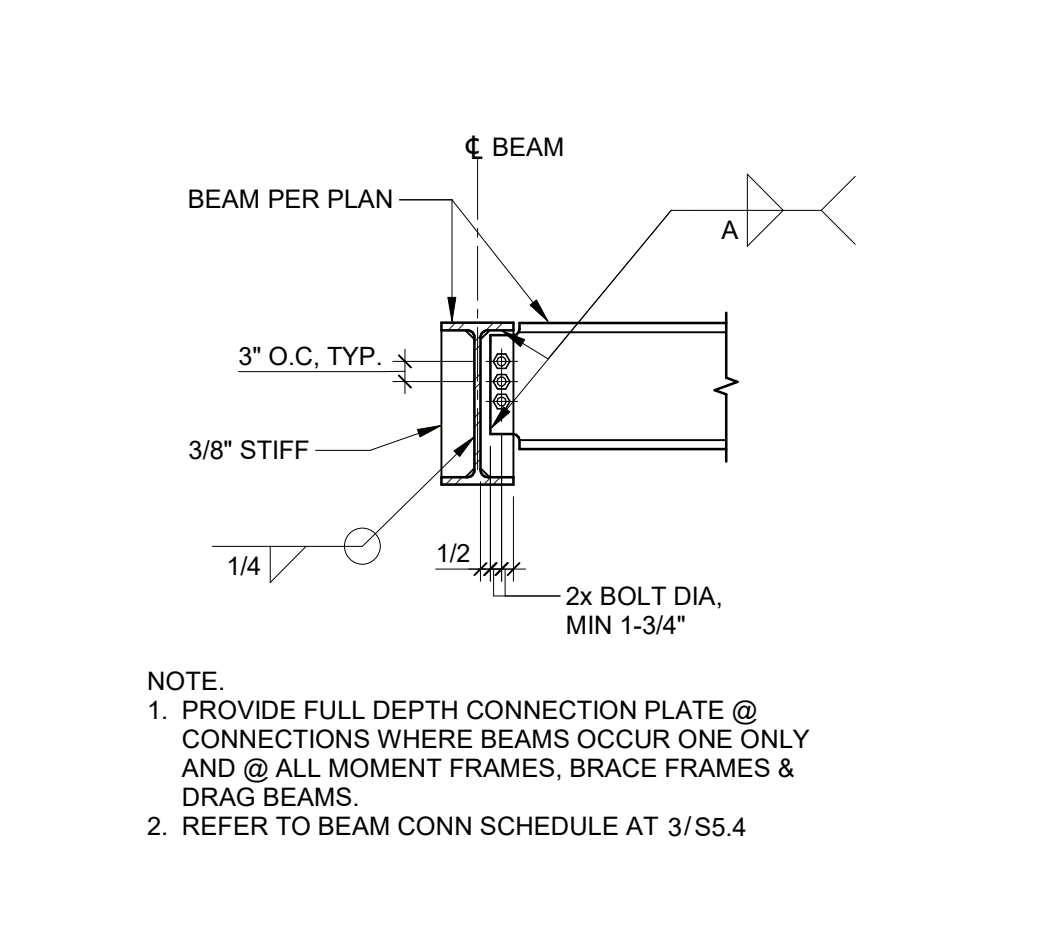
9 TYPICAL DETAIL - CLOSURE ANGLE TO RBS BEAM AT NO CONNECTION ZONE
SCALE: NTS



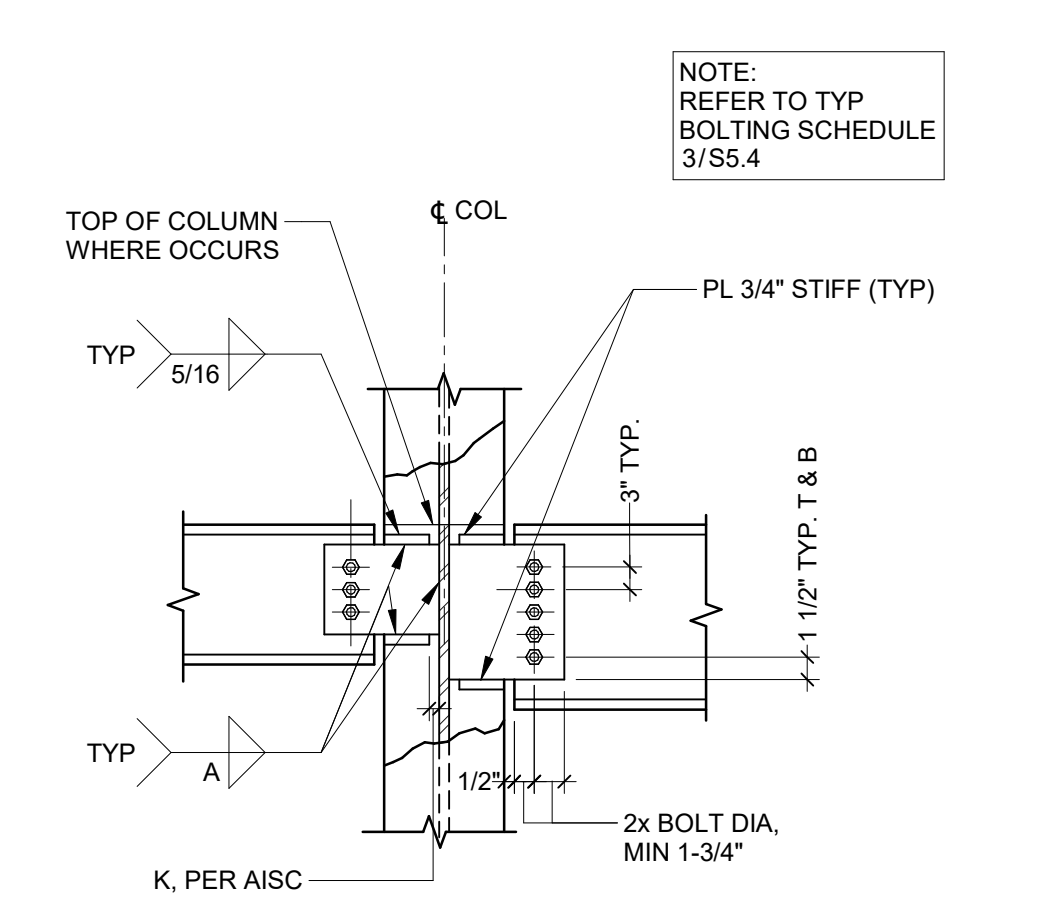
8 TYPICAL DETAIL - GRAVITY MOMENT CONN. AT BEAM
SCALE: NTS



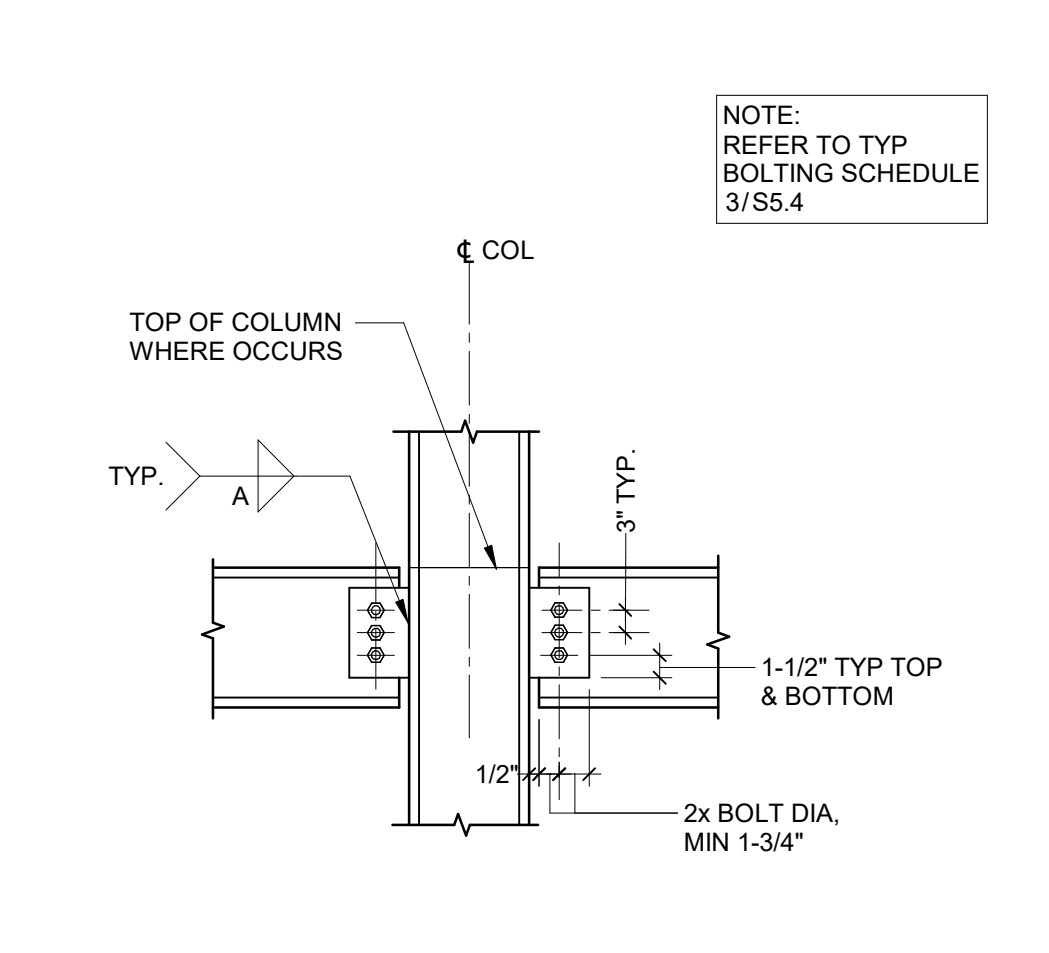
7 TYPICAL DETAIL - TWO-SIDED BEAM TO BEAM CONNECTION
SCALE: NTS



6 TYPICAL DETAIL - ONE-SIDED BEAM TO BEAM CONNECTION
SCALE: NTS

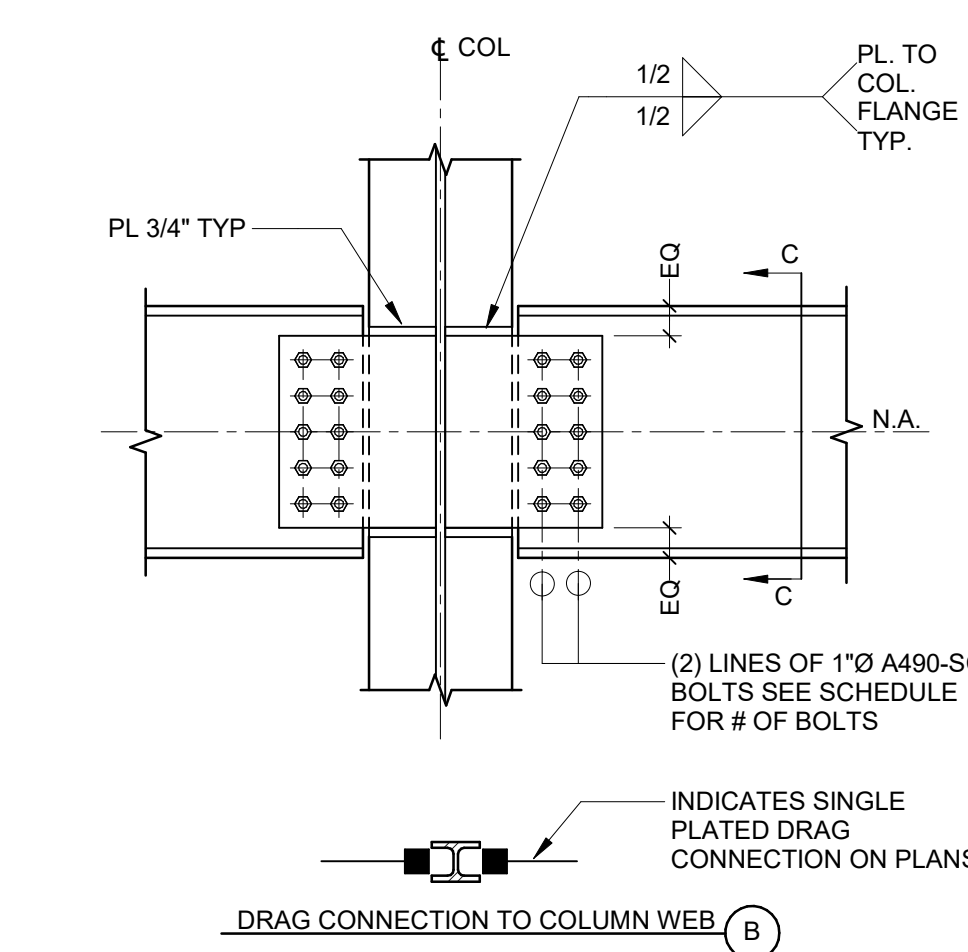


5 TYPICAL DETAIL - BEAM TO COL WEB
SCALE: NTS

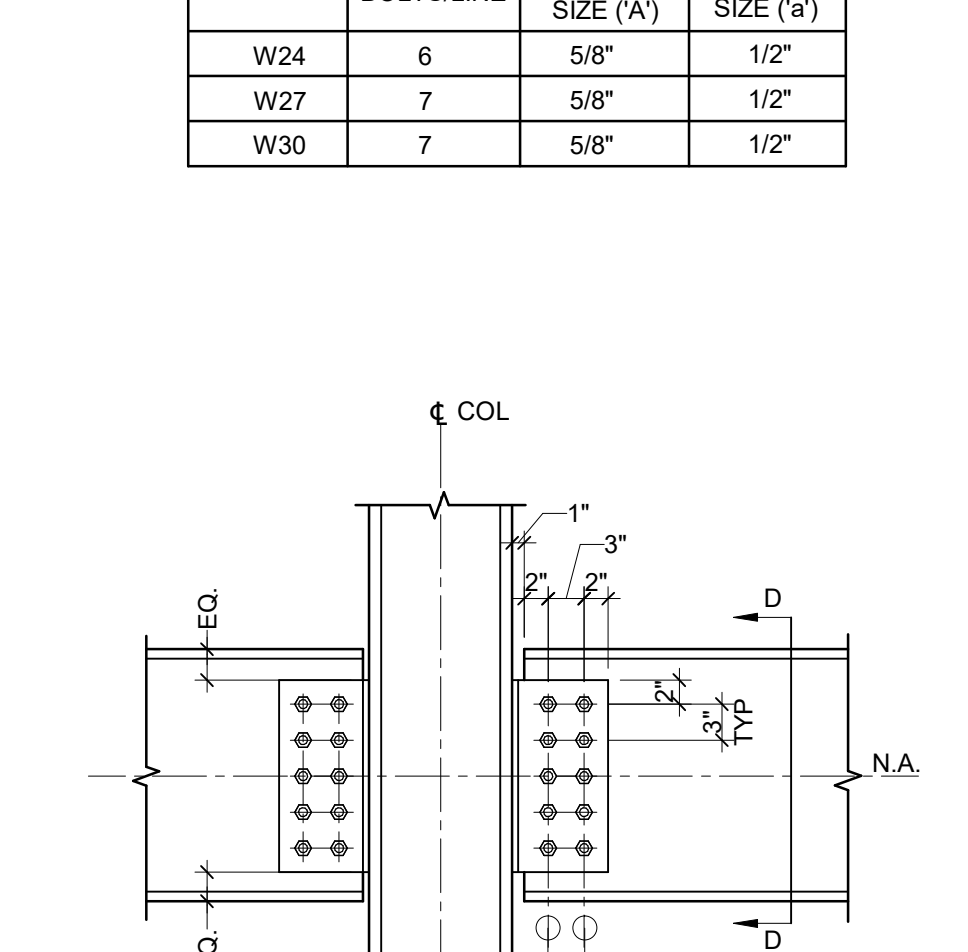


4 TYPICAL DETAIL - BEAM TO COLUMN FLANGE
SCALE: NTS

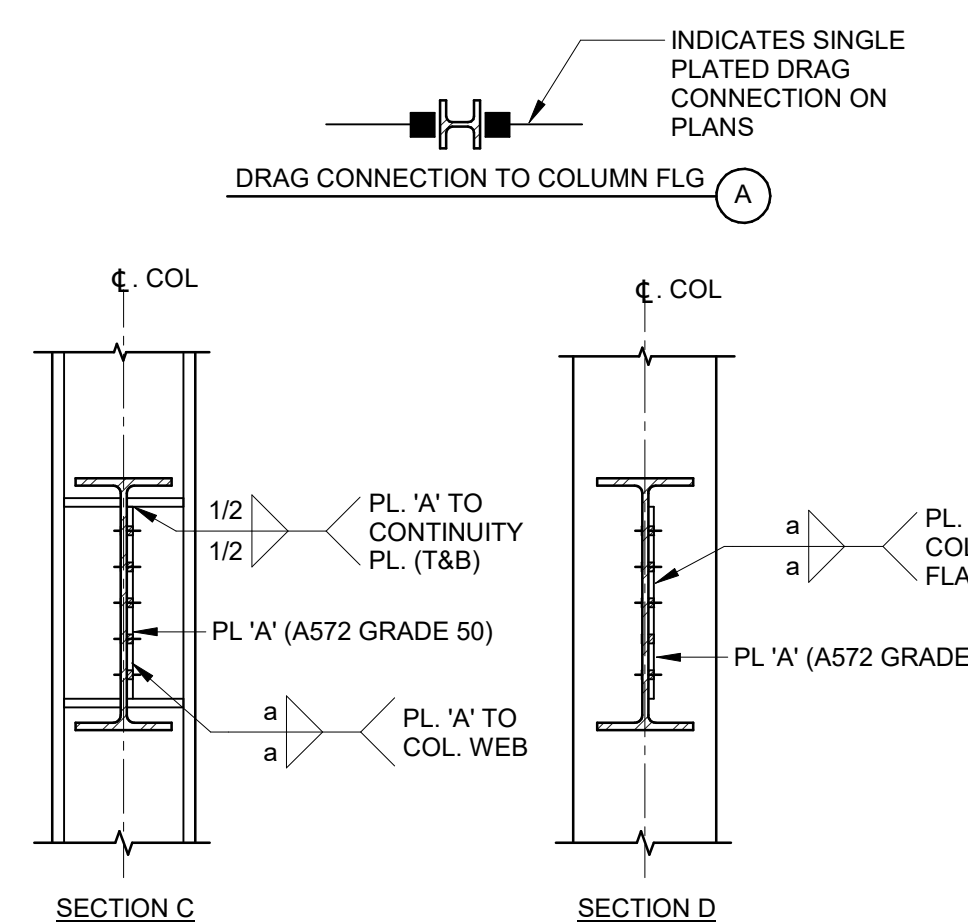
3 TYPICAL DETAIL - BOLTING SCHEDULE
SCALE: NTS



3 TYPICAL DETAIL - BOLTING SCHEDULE
SCALE: NTS



2 TYPICAL DETAIL - SINGLE PLATE DRAG CONN (BM TO COL)
SCALE: NTS

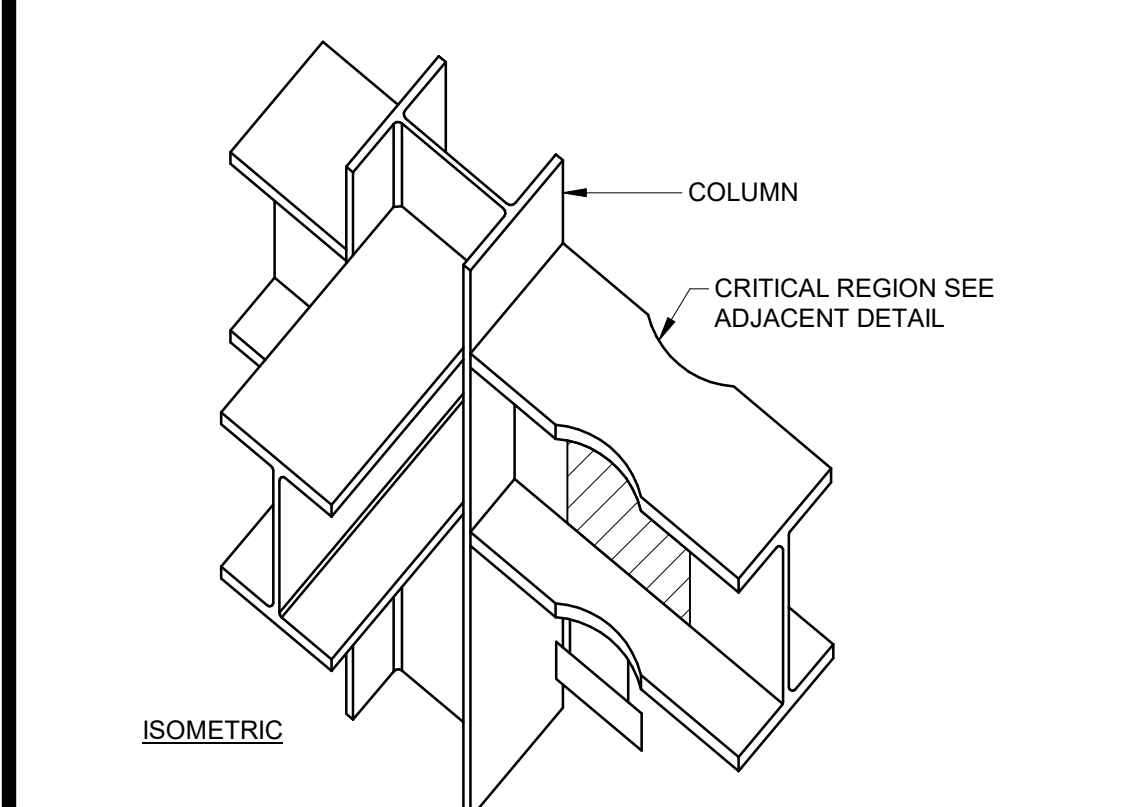


1 TYPICAL DETAIL - SEISMIC WELD ACCESS HOLE CONFIG
SCALE: NTS

NOTES: REFER TABLE 1-3 FOR WEB ACCESS HOLE TYPES

DIMENSION	WELD ACCESS HOLE GEOMETRY IN ACCORDANCE WITH AWS D1.8/D1.8M SUBCLAUSE 6.10.1			
	①	②	③	④
DEG.	IN.	IN.	IN.	IN.
A	30	1/2"	3/4"	1 1/4"
B	30	1/2"	3/4"	1 1/2"
C	30	3/4"	1"	2 1/2"
D	30	1"	1 1/4"	3 1/2"
E	30	1 1/4"	1 1/2"	4 1/2"
F	30	1 1/2"	1 3/4"	5 1/2"
G	30	1 3/4"	2"	6 1/2"
H	30	2"	2 1/4"	7 1/2"
I	30	2 1/4"	2 1/2"	8 1/2"
J	30	2 1/2"	2 3/4"	9 1/2"
K	30	3"	3"	11"
L	30	3 1/4"	3 1/2"	12 1/2"
M	30	3 3/4"	4"	14"
N	30	4"	4 1/4"	15"

1 TYPICAL DETAIL - SEISMIC WELD ACCESS HOLE CONFIG
SCALE: NTS



14 TYPICAL DETAIL - RBS MOMENT CONNECTION CRITICAL REGION
SCALE: NTS

KEY PLAN

PRINCIPAL
David Keith
RESEARCH PLANNER

STRUCTURAL PRINCIPAL
PAUL CONSTANTINI, SE
STRUCTURAL ENGINEER
STEPHEN BARTAL

REVISIONS

NO.	BY	DESCRIPTION	DATE
D	C	ISSUED FOR GC BIDDING	11.08.2024
C	A	ISSUED FOR OWNER'S REVIEW	10.11.2024
B	A	DESIGN DEVELOPMENT	09.26.2024
A	A	DESIGN DEVELOPMENT	05.24.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY: SGB DATE: 05.24.2024
PROJECT NO: 20230523 SCALE: 3/4" = 1'-0"
DRAWING NAME: TYPICAL RBS CONNECTIONS
FLOOR/SECTION: PHASE: DESIGN DEVELOPMENT
DRAWING NO: 55.4

NOT FOR CONSTRUCTION
CD

KEY PLAN

PRINCIPAL
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STEPHEN BARTAL

REVISIONS

NO.	BY	DESCRIPTION	DATE
D		ISSUED FOR GC BIDDING	11.08.2024
C		ISSUED FOR OWNER'S REVIEW	10.11.2024
B		DESIGN DEVELOPMENT	09.26.2024
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Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

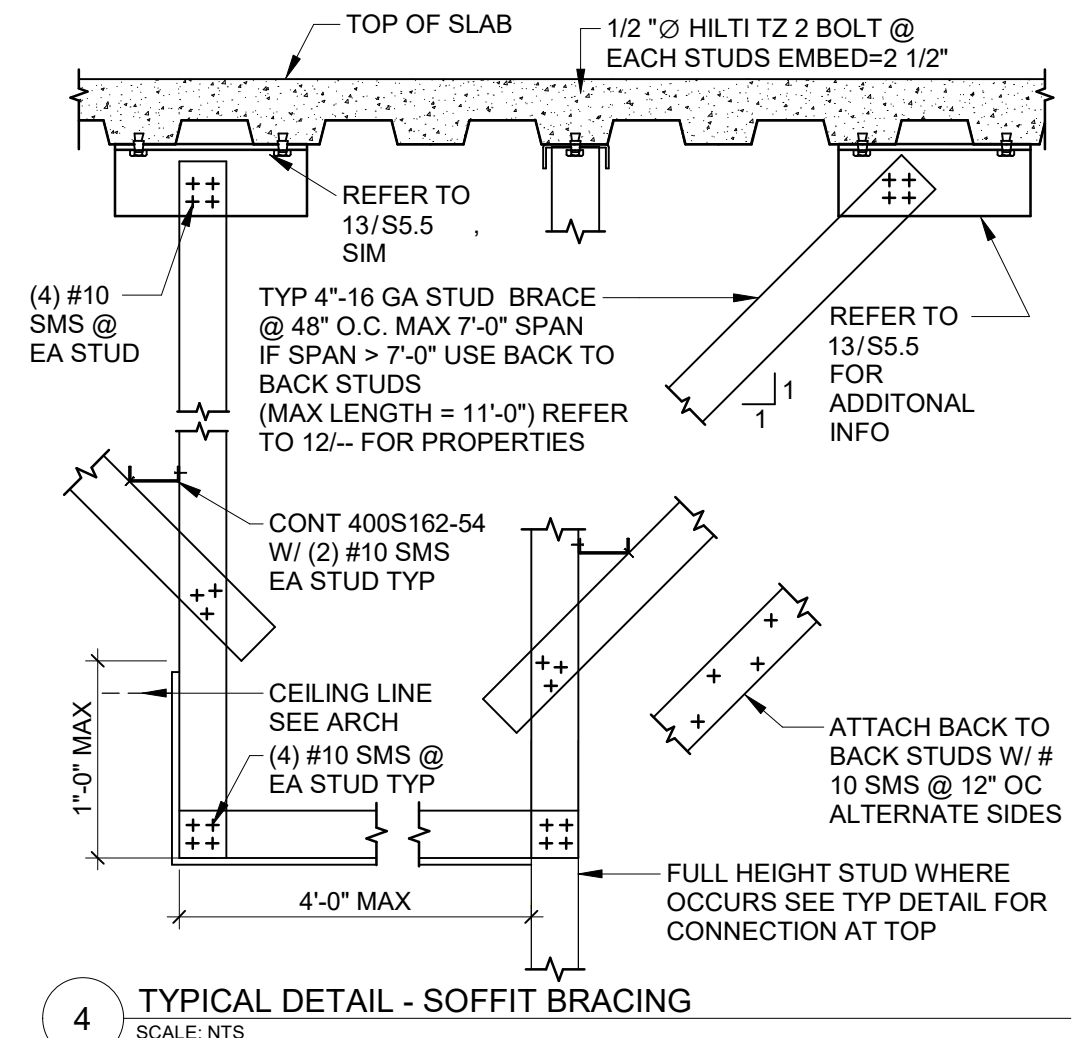
DRAWN BY: SGB DATE: 05.24.2024

PROJECT NO: 20230523 SCALE: 3/4" = 1'-0"

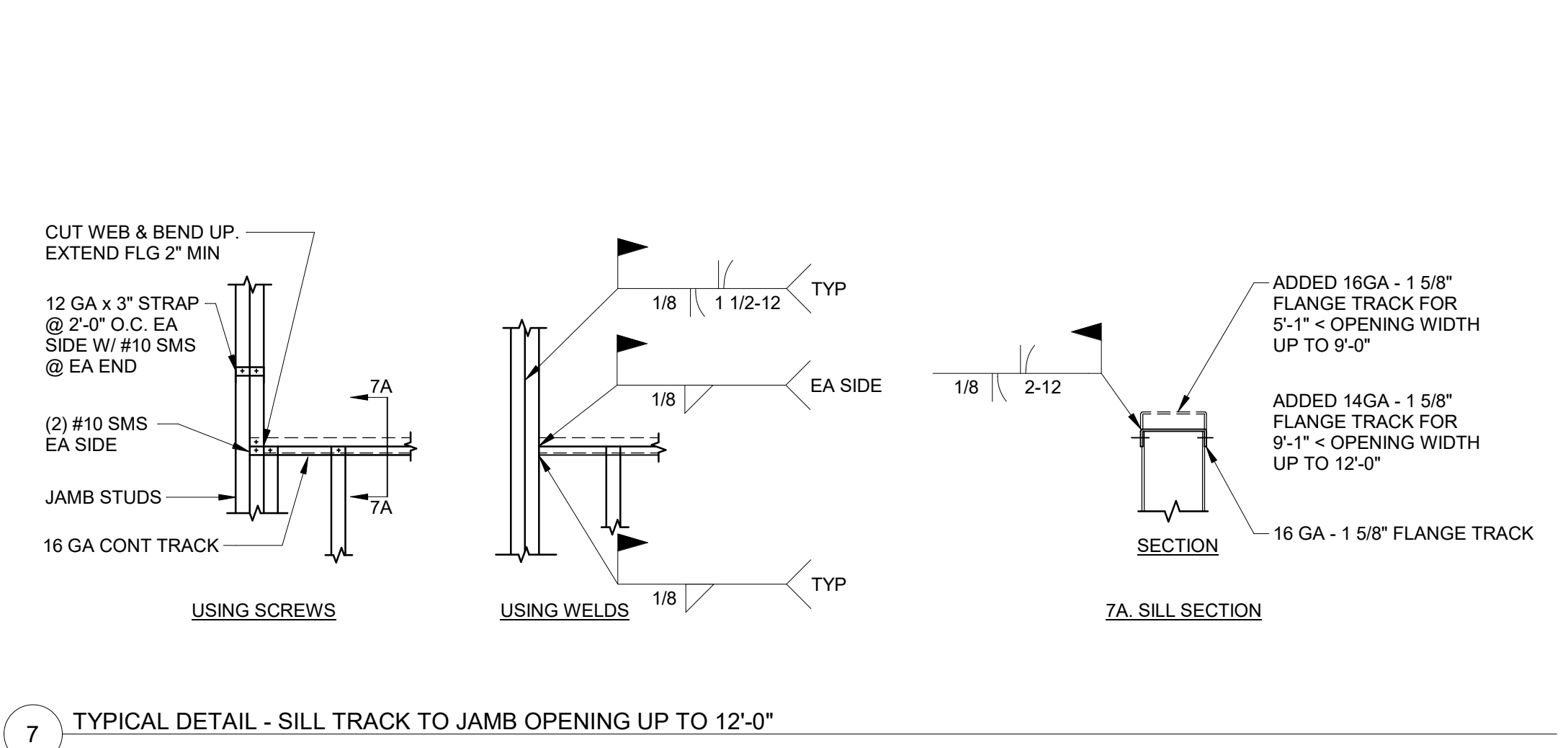
TYPICAL DETAILS - INTERIOR NON-LOAD BEARING WALL STUDS

FLOOR/SECTION PHASE DRAWING NO.

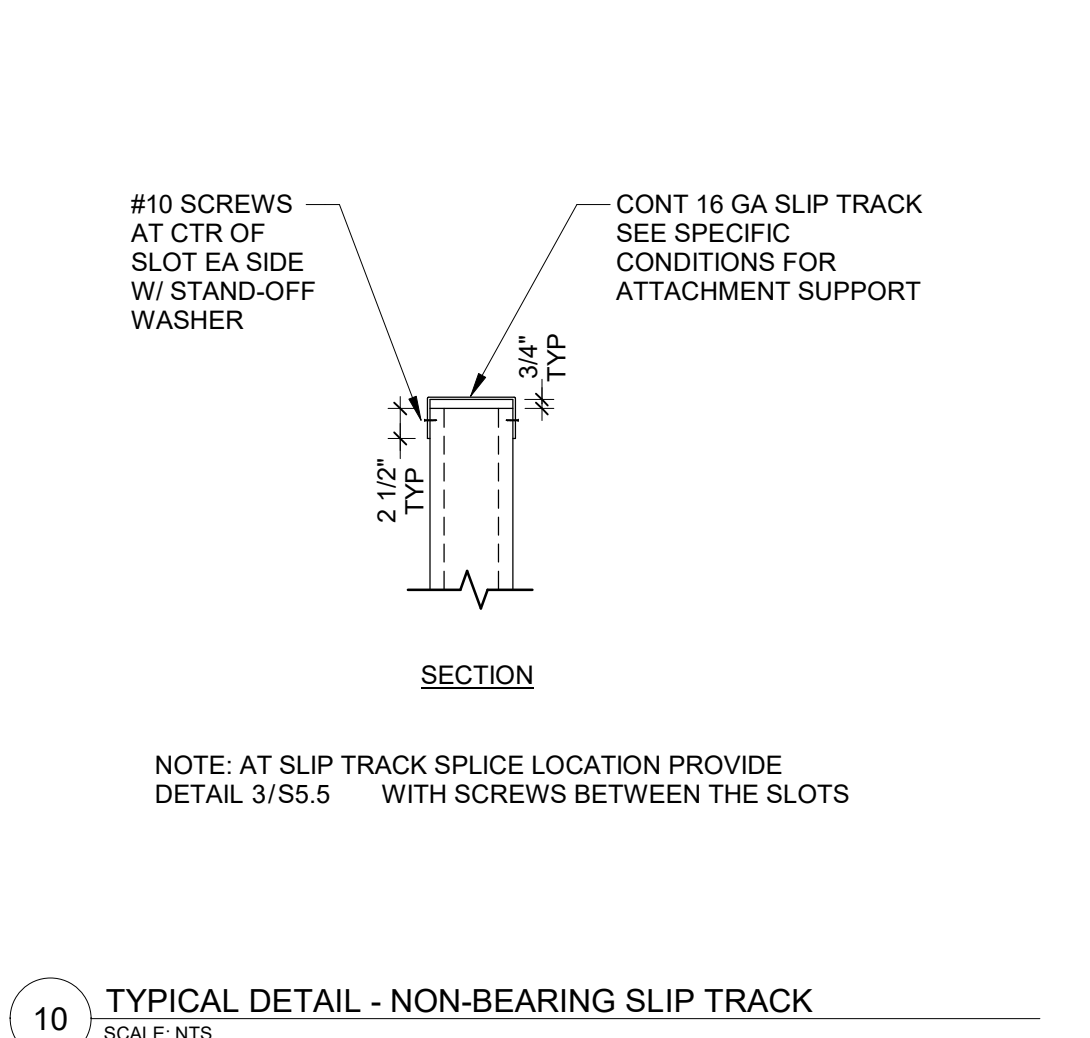
CD S5.5



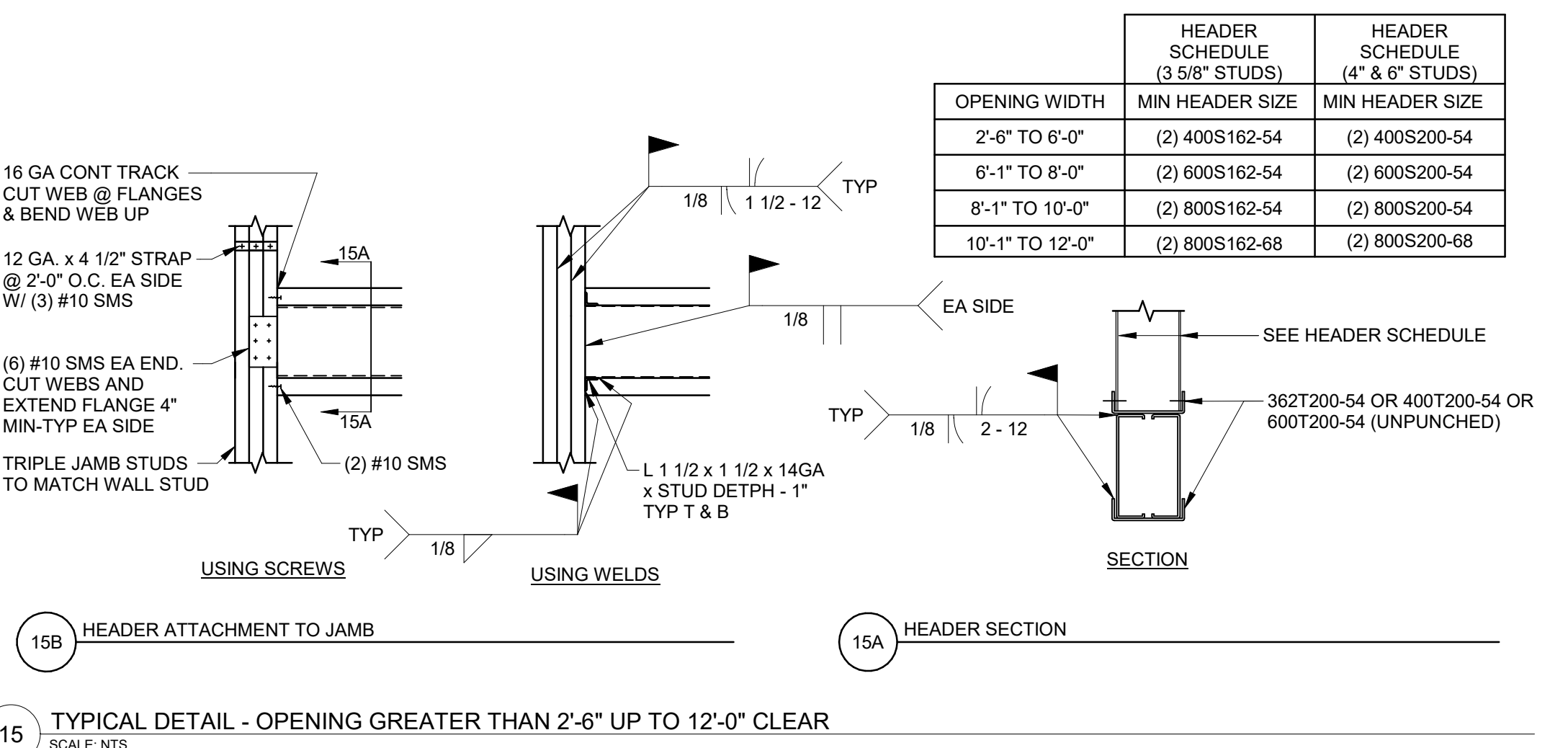
4 TYPICAL DETAIL - SOFFIT BRACING
SCALE: NTS



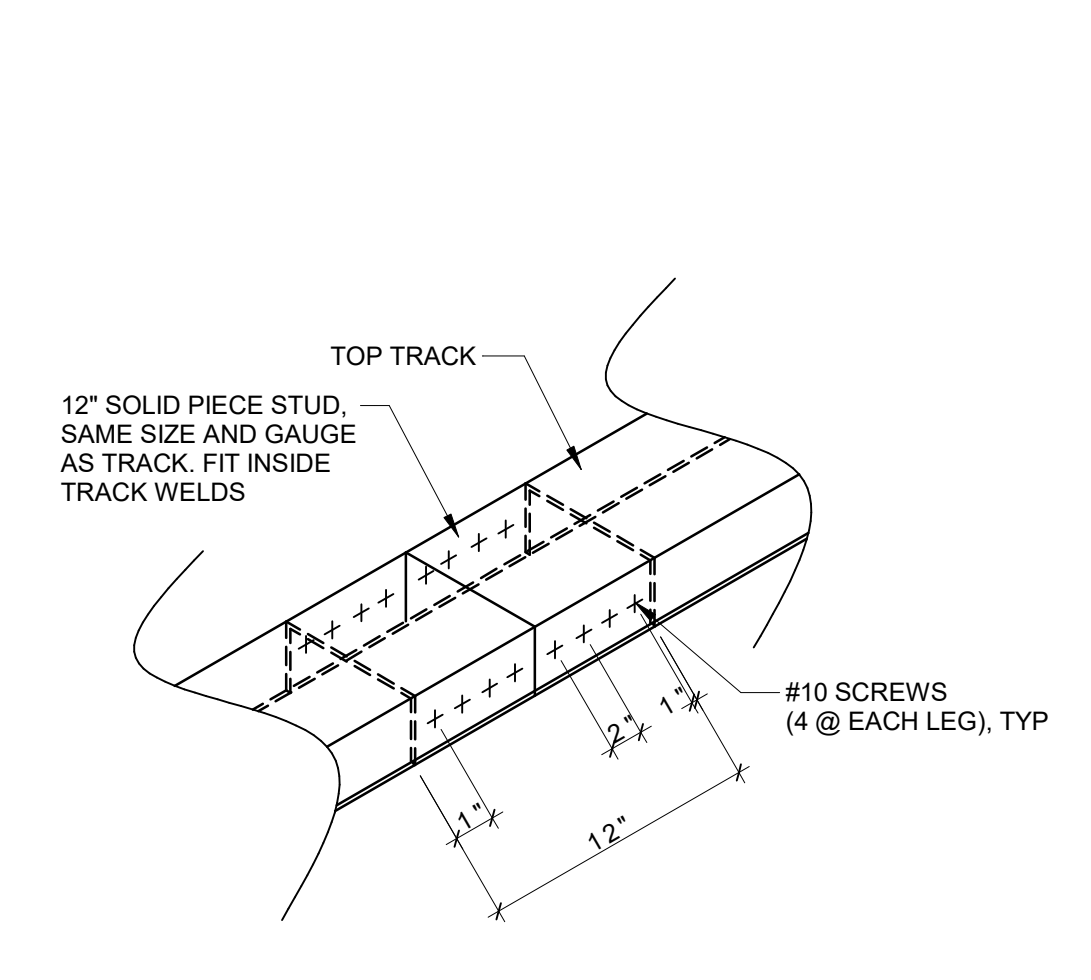
7 TYPICAL DETAIL - SILL TRACK TO JAMB OPENING UP TO 12'-0\"/>



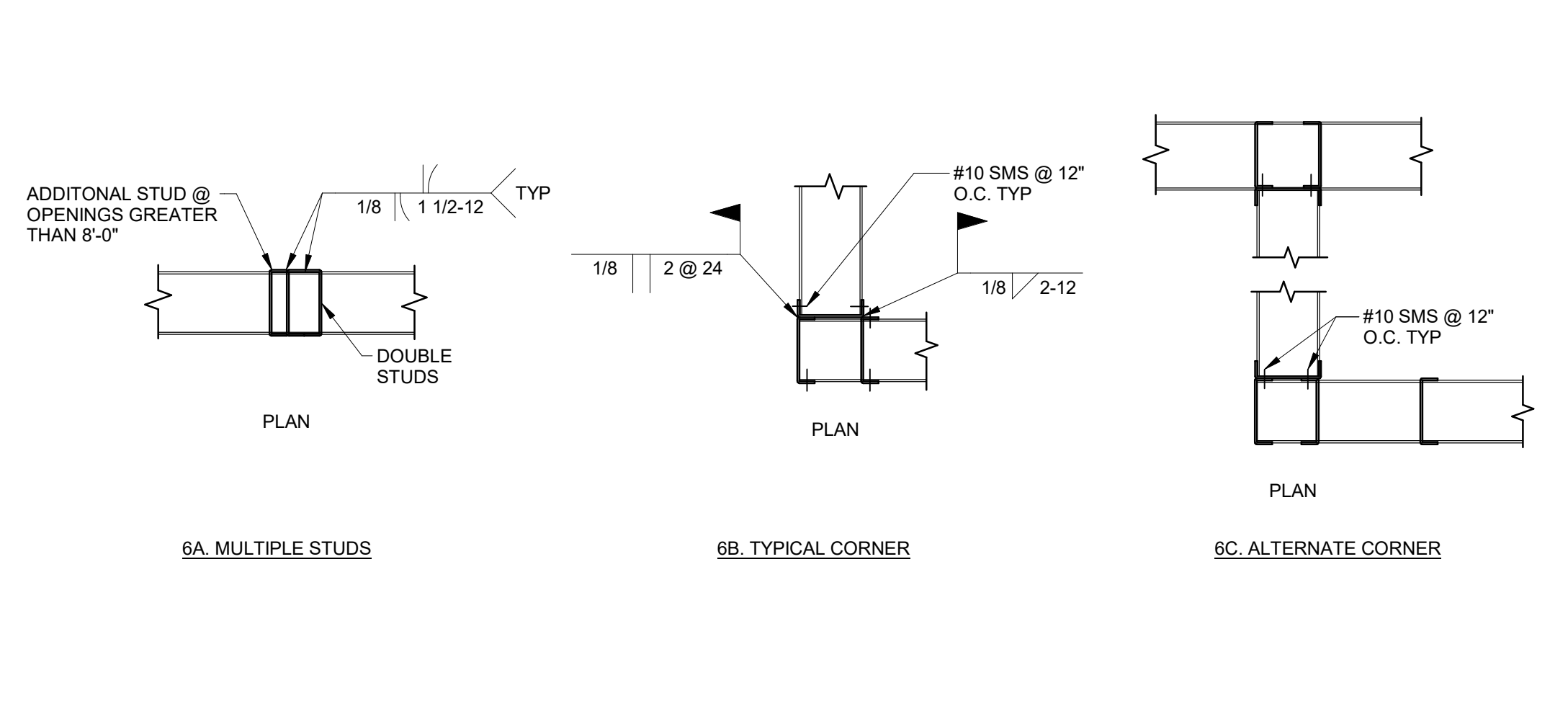
10 TYPICAL DETAIL - NON-BEARING SLIP TRACK
SCALE: NTS



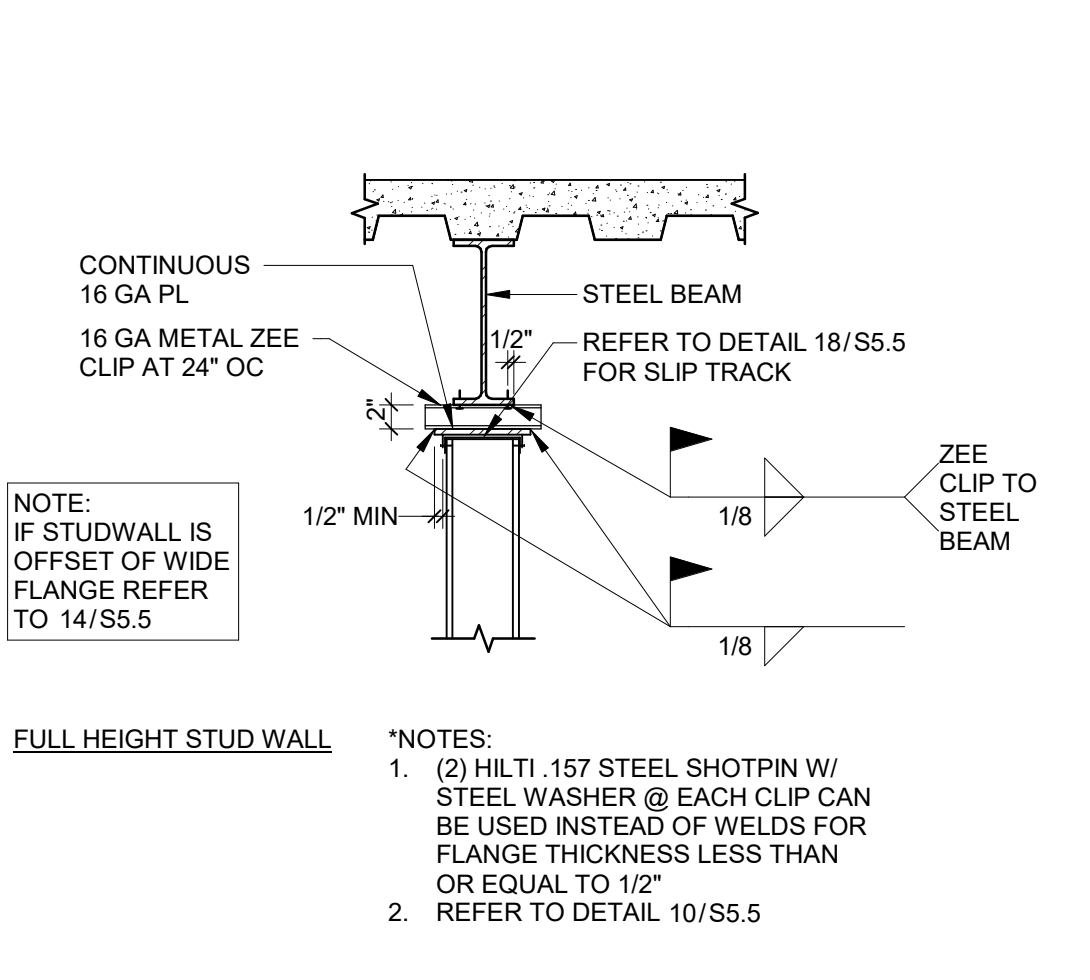
15 TYPICAL DETAIL - OPENING GREATER THAN 2'-6\"/>



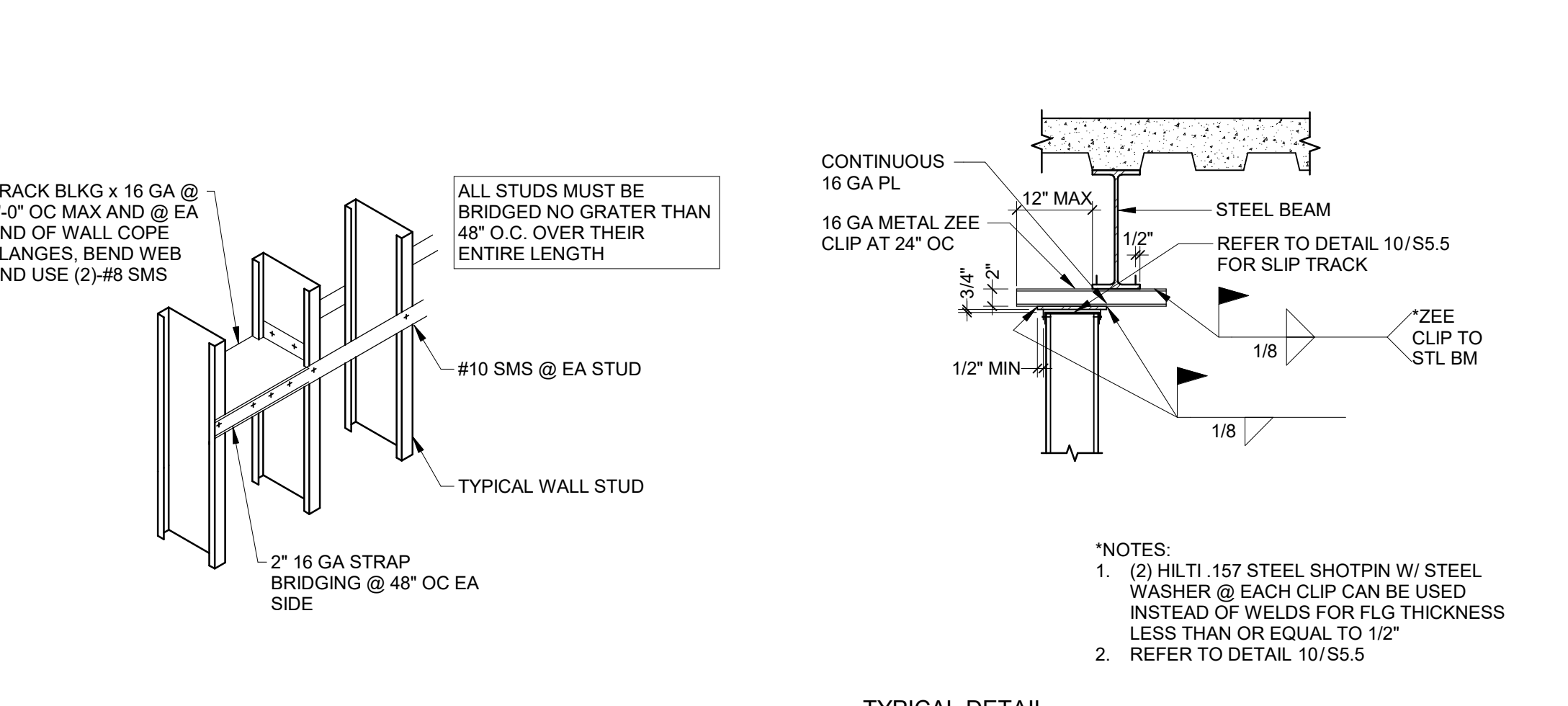
3 TOP TRACK SPLICE DETAIL
SCALE: NTS



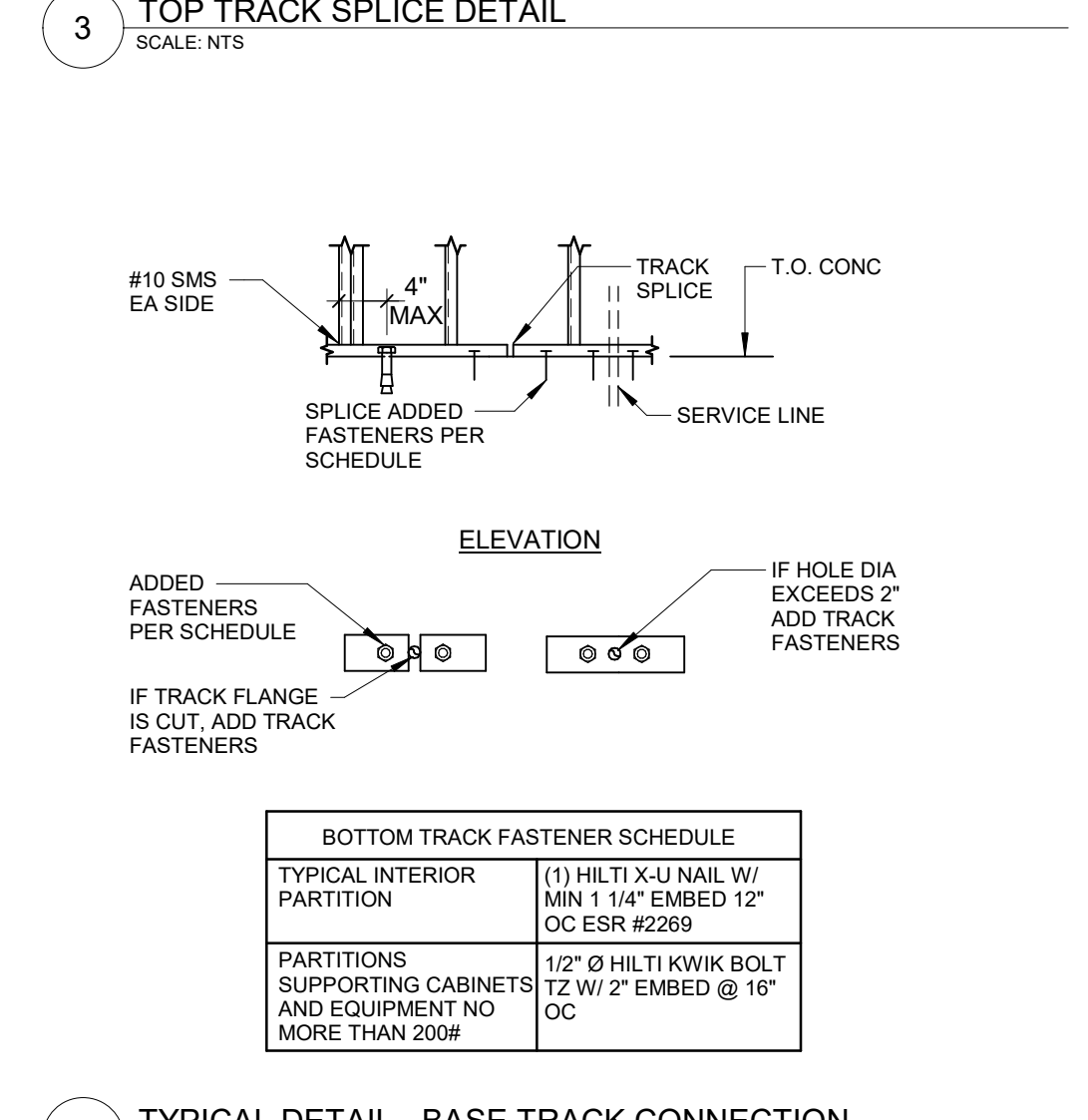
6 TYPICAL DETAIL - STUD SECTION
SCALE: NTS



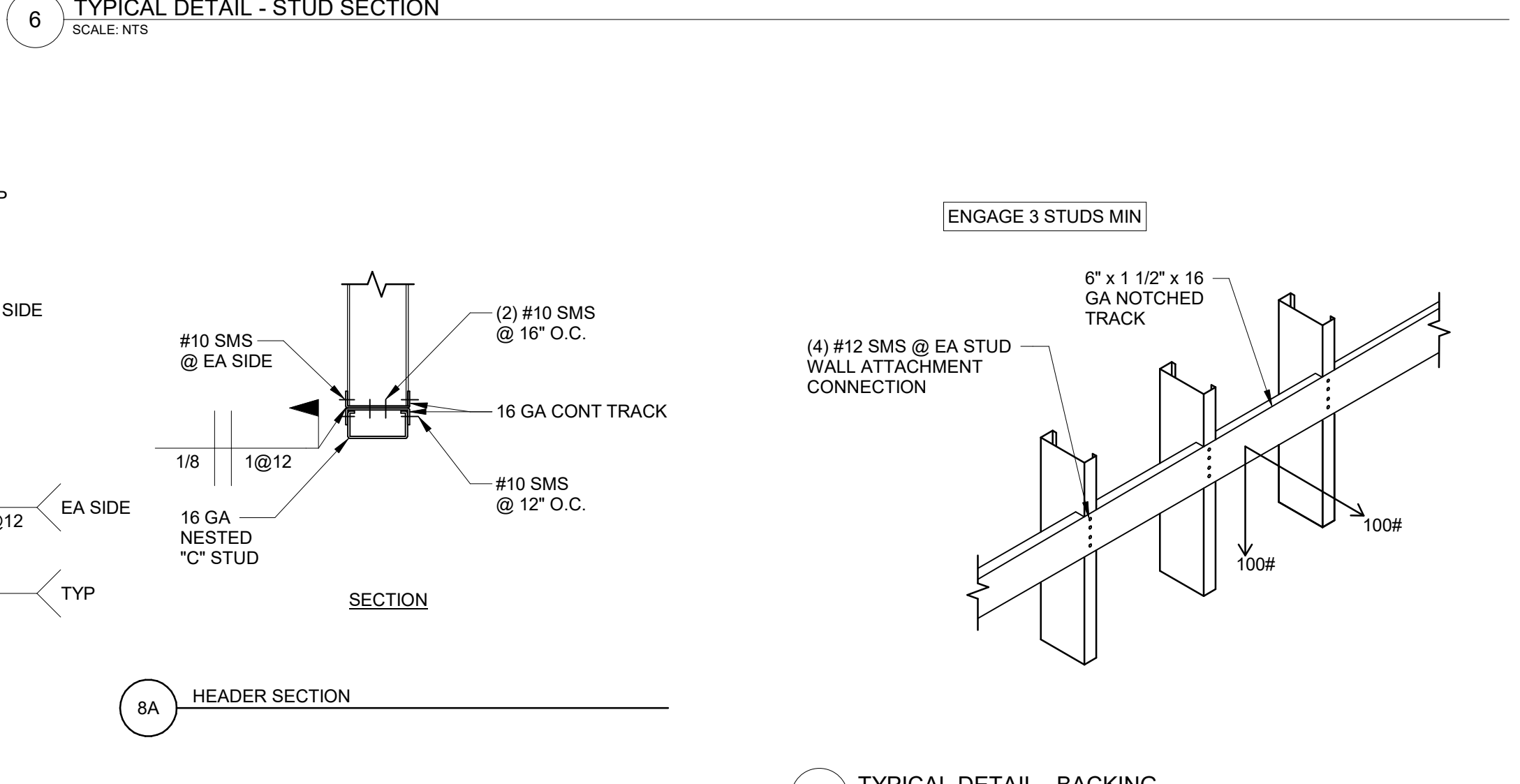
9 TYPICAL DETAIL - TOP OF WALL PARALLEL TO FRAMING
SCALE: NTS



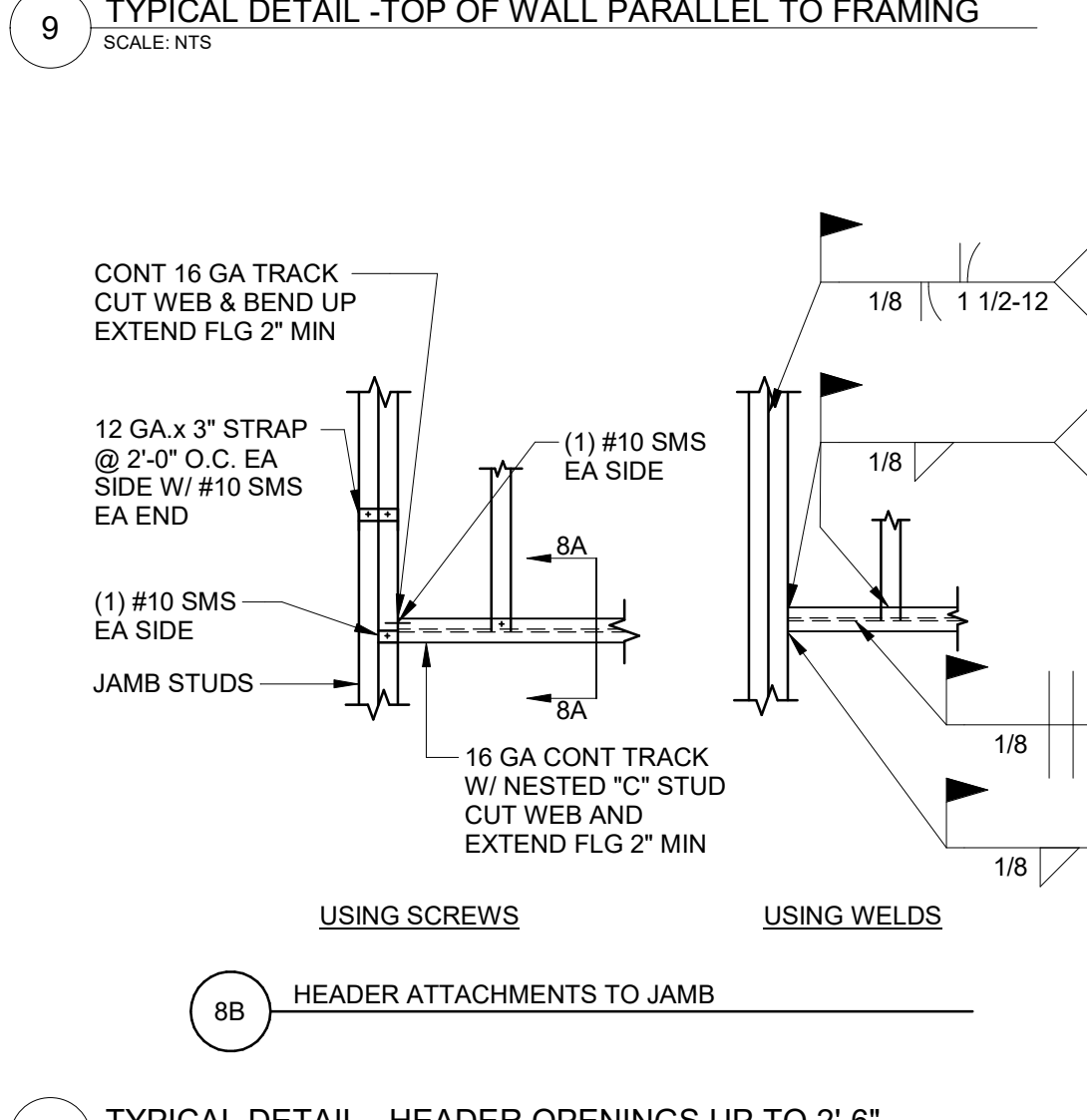
19 TYPICAL DETAIL - BRIDGING AND BLOCKING
SCALE: NTS



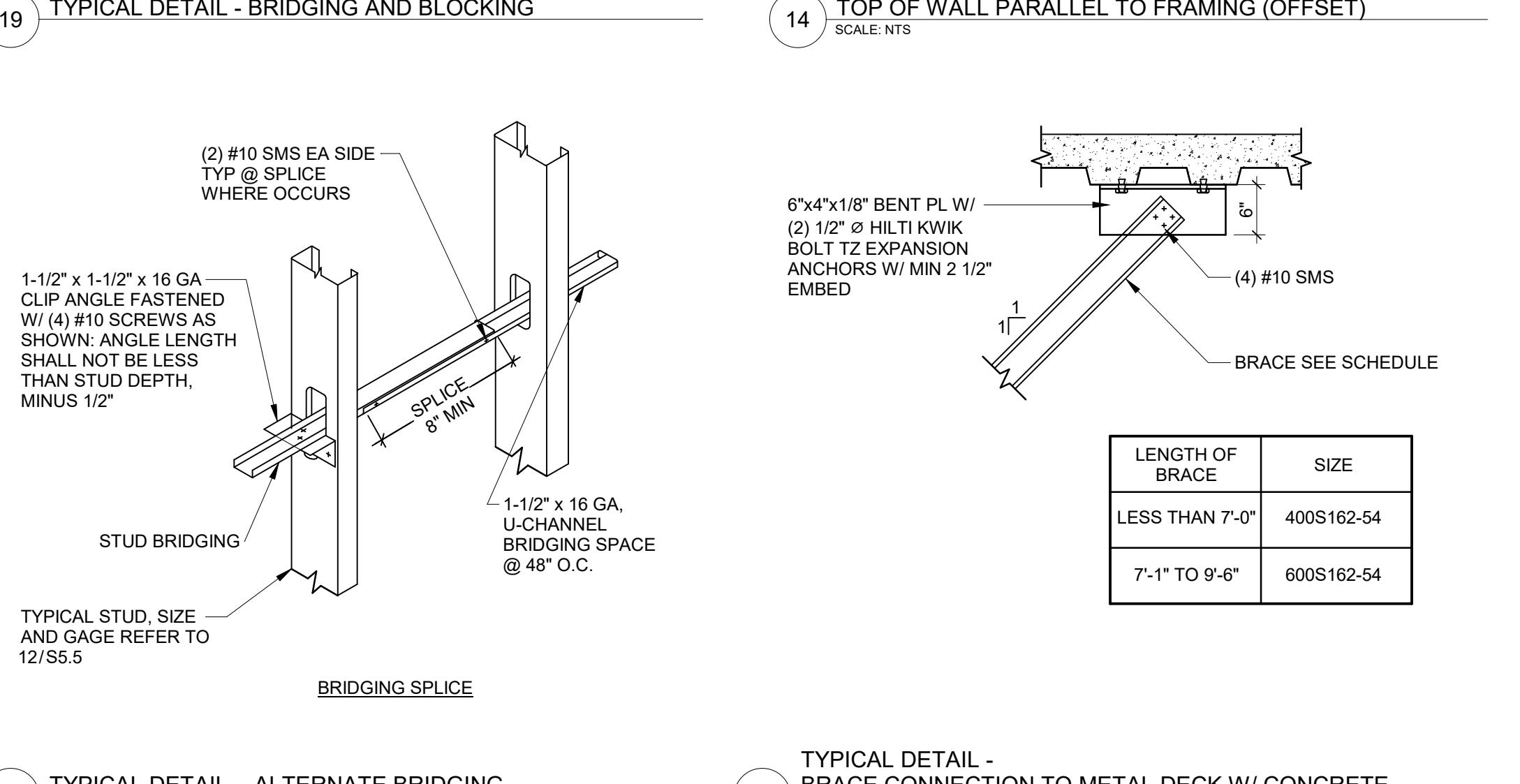
2 TYPICAL DETAIL - BASE TRACK CONNECTION
SCALE: NTS



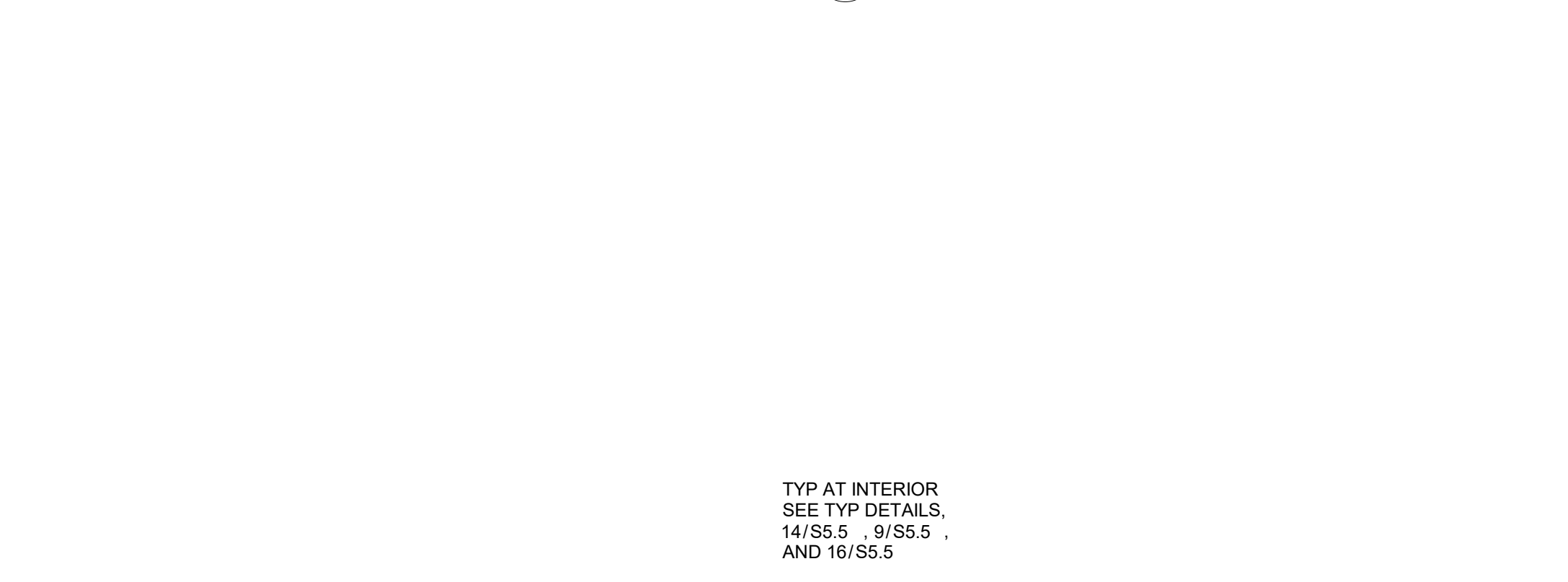
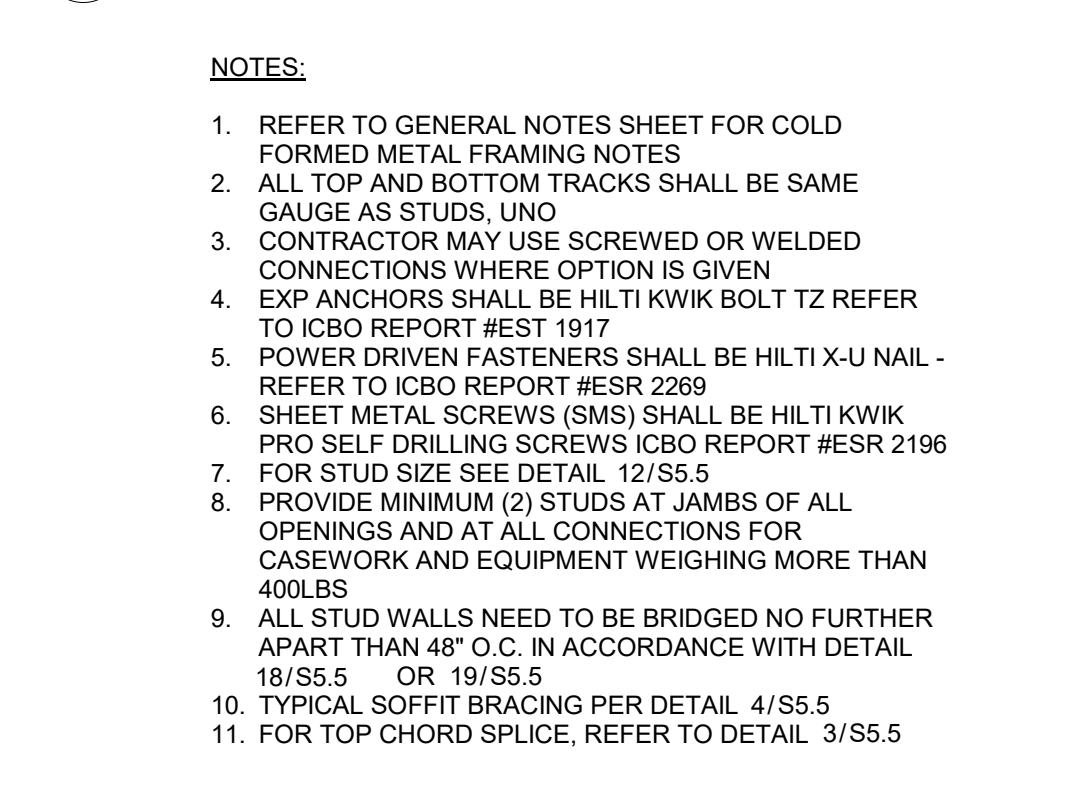
8B HEADER ATTACHMENTS TO JAMB
SCALE: NTS



8 TYPICAL DETAIL - HEADER OPENINGS UP TO 2'-6\"/>



18 TYPICAL DETAIL - ALTERNATE BRIDGING
SCALE: NTS



11 TYPICAL DETAIL - STEEL DRYWALL CEILING FRAMING
SCALE: NTS

TABLE - TYPICAL STUD PROPERTIES

TYPICAL STUD PROPERTIES SUPPORTING CABINETS & CEILING JOISTS, SSMA ERM 3064P

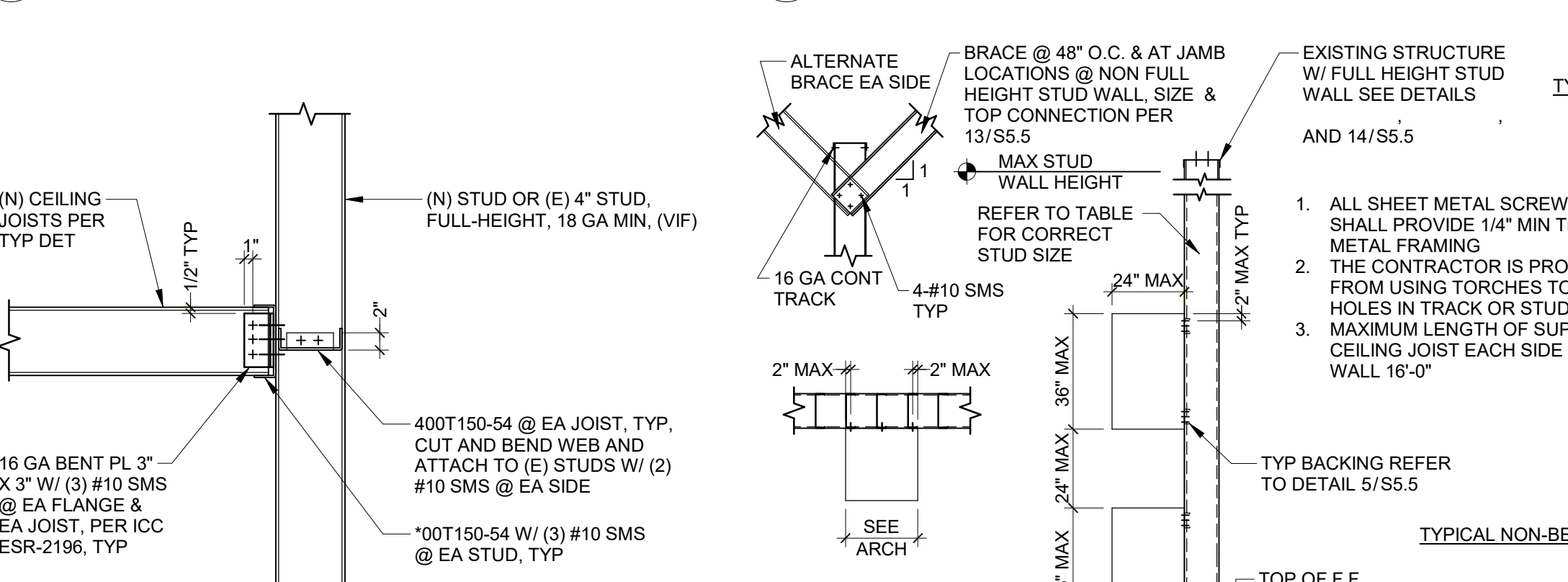
STUD SIZE*	3 5/8"	4"	6"
12'-0"	362S162-68	400S162-54	600S162-43
15'-0"	362S162-97	400S162-97	600S162-54
18'-0"	--	400S162-97	600S162-54
26'-0"	--	--	600S200-54

TYPICAL STUD PROPERTIES SUPPORTING CEILING JOISTS, SSMA ERM 3064P

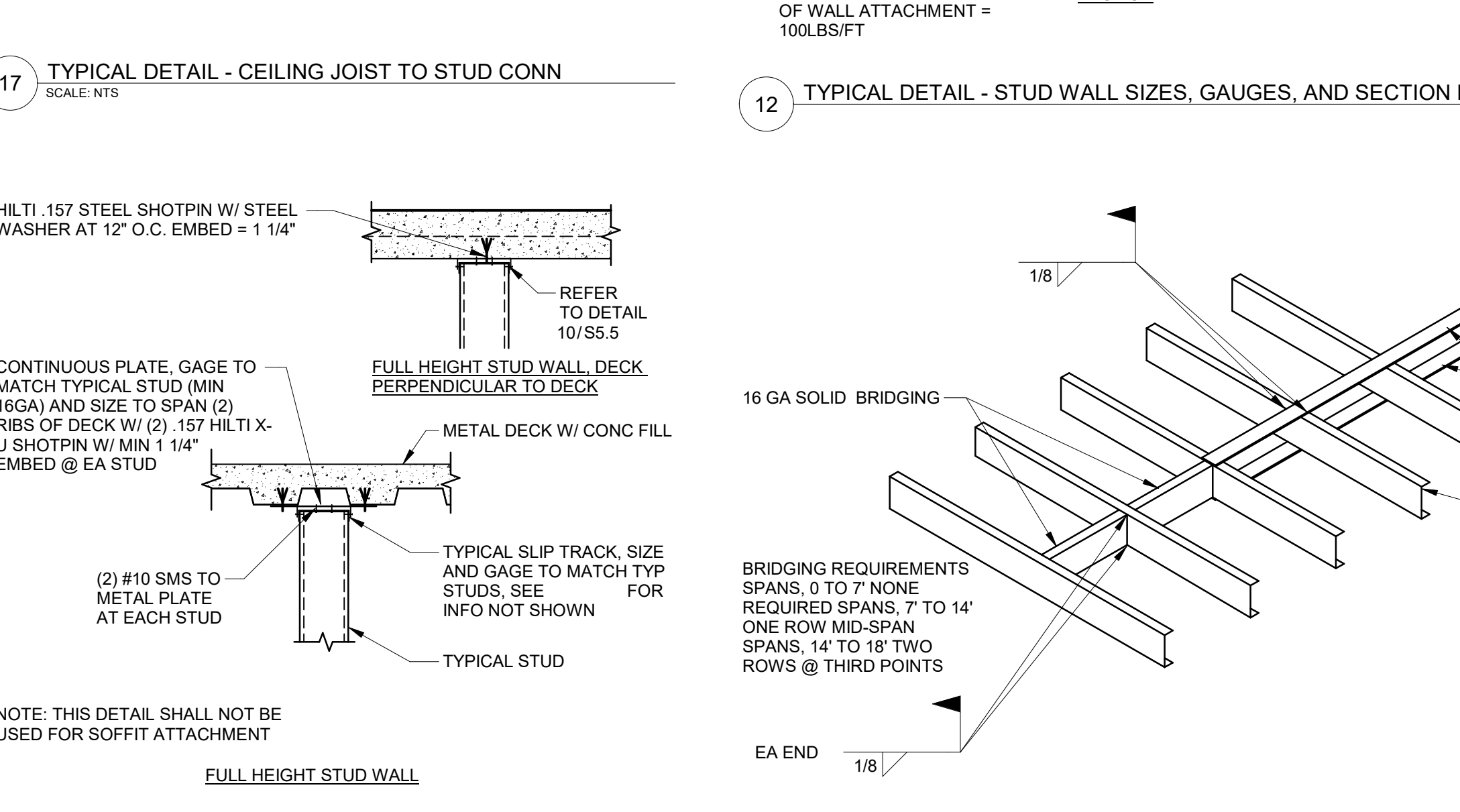
STUD SIZE*	3 5/8"	4"	6"
12'-0"	362S162-43	400S162-43	600S162-33
15'-0"	362S162-54	400S162-54	600S162-43
18'-0"	--	400S162-68	600S162-54
26'-0"	--	--	600S200-43

TYPICAL NON-BEARING STUDS (DOES NOT SUPPORT CABINETS NOR CEILING JOISTS), SSMA ERM 3064P

STUD SIZE*	3 5/8"	4"	6"
12'-0"	362S162-33	400S162-33	600S162-33
15'-0"	362S162-43	400S162-43	600S162-33
18'-0"	--	400S162-54	600S162-33
26'-0"	--	--	600S200-33



17 TYPICAL DETAIL - CEILING JOIST TO STUD CONN
SCALE: NTS

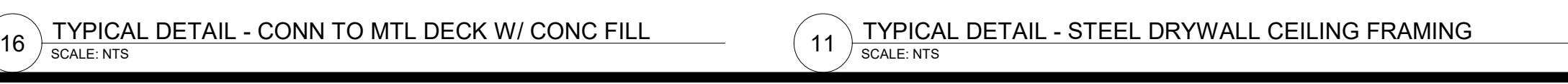


16 TYPICAL DETAIL - CONN TO MTL DECK W/ CONC FILL
SCALE: NTS

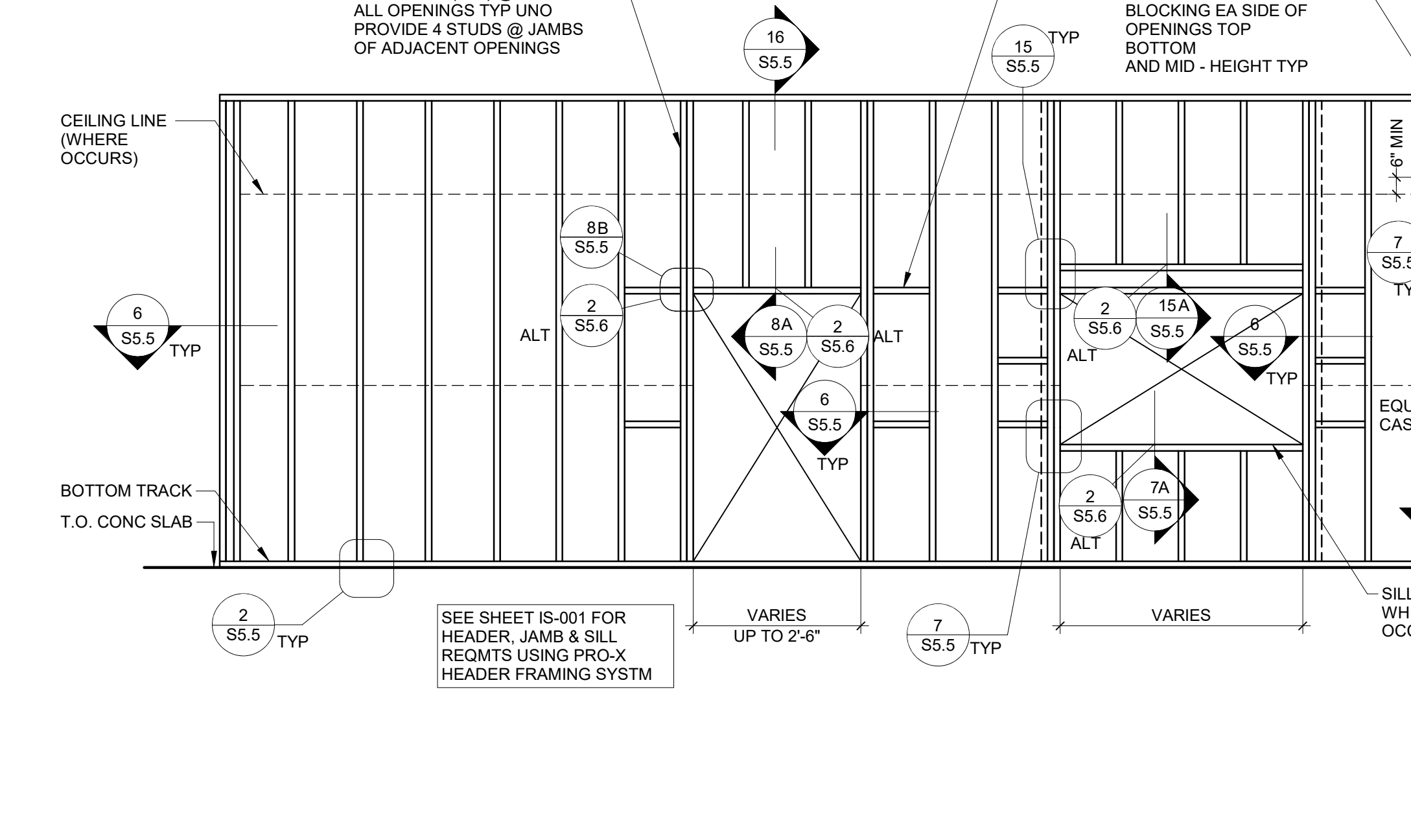
TABLE - TYPICAL STUD PROPERTIES

TYPICAL STUD PROPERTIES SUPPORTING CABINETS & CEILING JOISTS, SSMA ERM 3064P

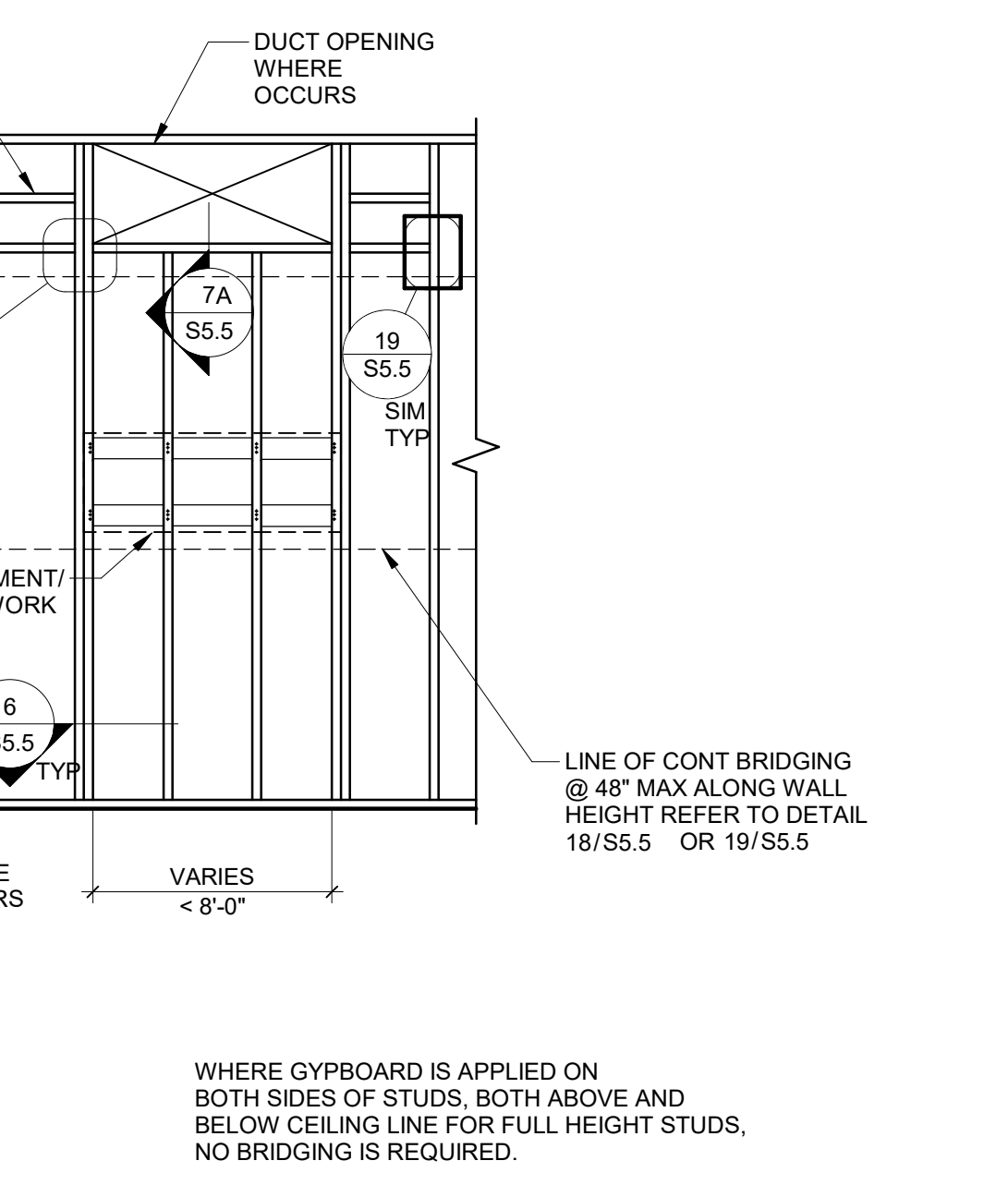
SPAN	JOIST SIZE	S _x MIN	I _x MIN
8' OR LESS	400S137-33 @ 16" O.C.	0.301	0.603
10' OR LESS	400S137-43 @ 16" O.C.	0.388	0.776
12' OR LESS	600S137-33 @ 16" O.C.	0.527	1.582
14' OR LESS	600S137-43 @ 16" O.C.	0.681	2.042
16' OR LESS	600S137-54 @ 16" O.C.	0.839	2.518
18' OR LESS	600S137-54 @ 16" O.C.	0.839	2.518



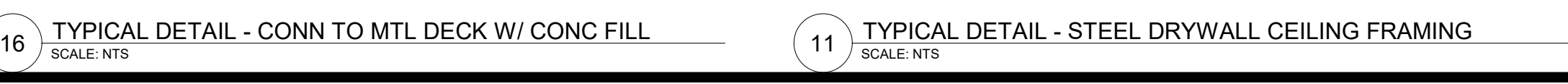
11 TYPICAL DETAIL - STEEL DRYWALL CEILING FRAMING
SCALE: NTS



1 TYPICAL DETAIL - INTERIOR WALL ELEVATION (METAL STUDS EXTEND TO STRUCTURE)
SCALE: NTS



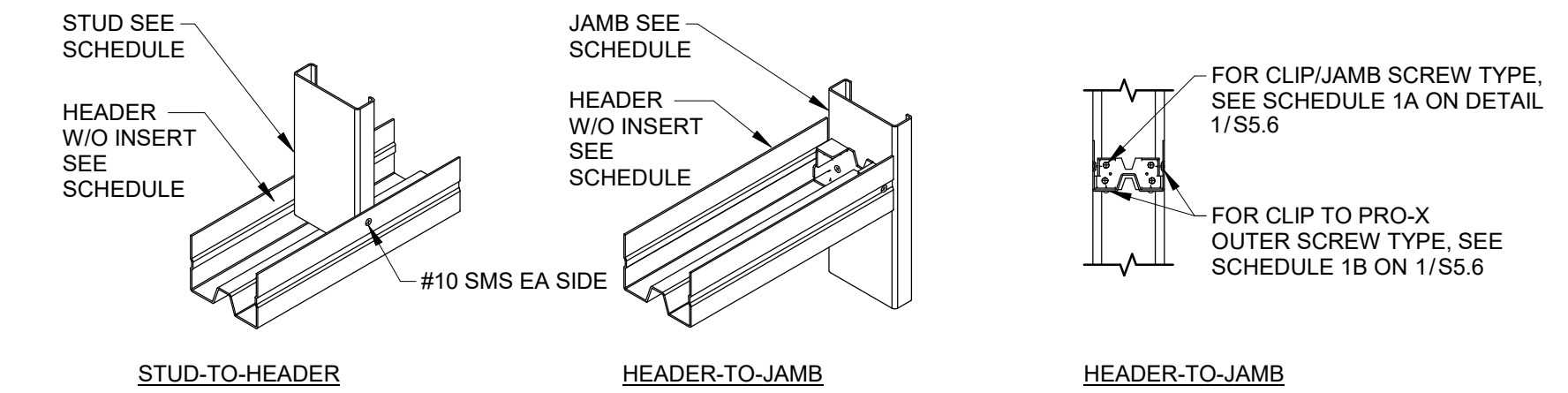
2 TYPICAL DETAIL - BASE TRACK CONNECTION
SCALE: NTS



16 TYPICAL DETAIL - CONN TO MTL DECK W/ CONC FILL
SCALE: NTS

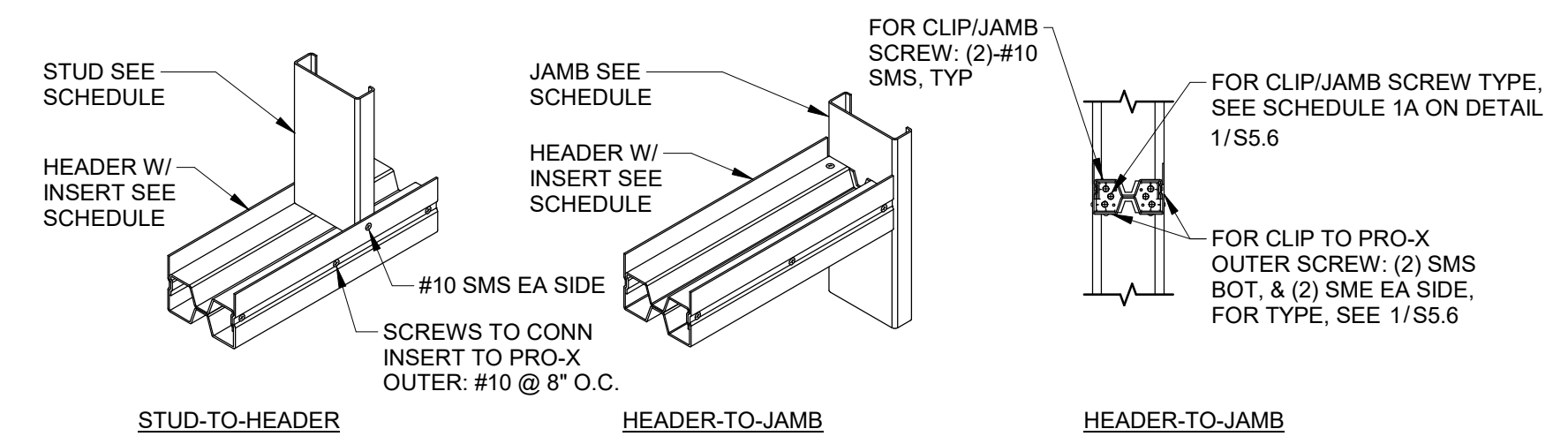
LIGHT GAUGE STEEL - MATERIAL STANDARDS

- 1. DETAILS ON THIS SHEET ARE ACCEPTABLE ALTERNATES FOR BUILT-UP SECTIONS SHOWN IN THE CONTRACT DOCUMENTS.
2. ALL WORK SHALL MEET THE REQUIREMENTS OF THE FOLLOWING STANDARDS:
A. 2015 INTERNATIONAL BUILDING CODE & 2016 CALIFORNIA BUILDING CODE
B. AMERICAN IRON AND STEEL INSTITUTE (AISI) DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS.
C. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM).
3. ALL STUD AND TRACK MATERIAL TO CONFORM TO THE FOLLOWING:
A. 54 MIL (GAUGE) AND HEAVIER: 50 KSI MIN YIELD, 65 KSI MIN TENSILE STRENGTH PAINTED STEEL PER ASTM A570 - GRADE 50 GALVANIZED STEEL PER ASTM A653 - GRADE 50
B. 43 MIL (GAUGE) AND LIGHTER: 33 KSI MIN YIELD, 45 KSI MIN TENSILE STRENGTH PAINTED STEEL PER ASTM A611 - GRADE C GALVANIZED STEEL PER ASTM A653 - GRADE 33
4. MISCELLANEOUS STEEL TO CONFORM TO THE FOLLOWING:
A. 30 MIL - 43 MIL 33 KSI MIN YIELD
B. 54 MIL - 97 MIL 50 KSI MIN YIELD



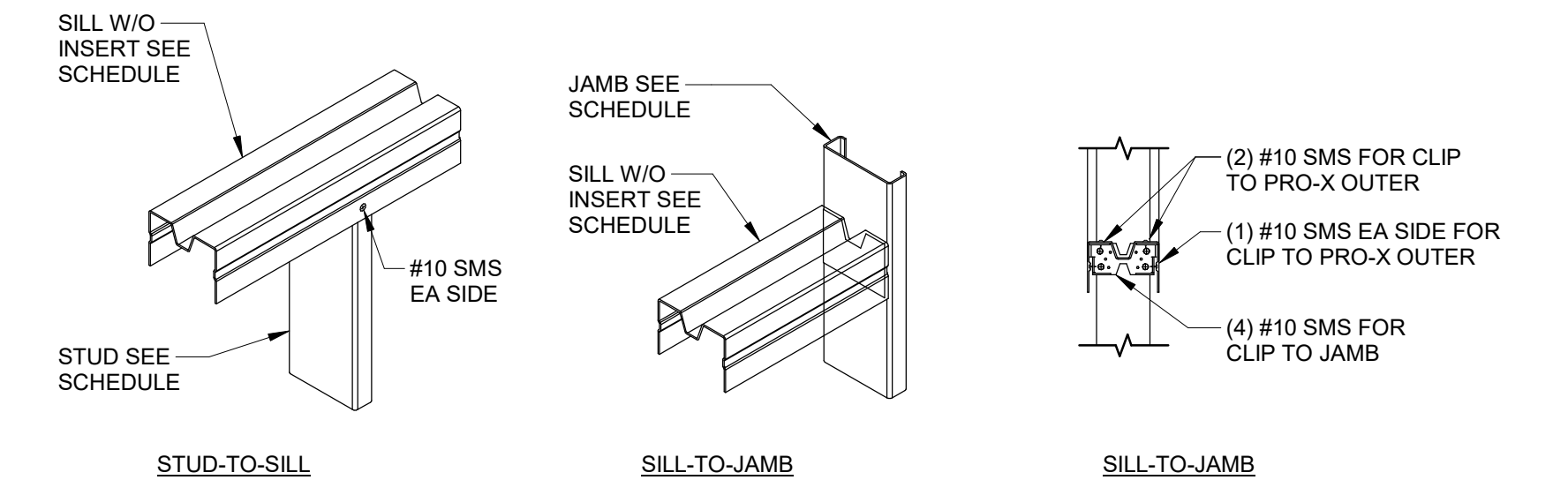
TYPICAL CONNECTION DETAILS FOR PRO-X HEADER WITHOUT INSERT PER ICC ESR-1765

- 5. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY OR ON AN ANGLE SUCH AS BRACING TO SQUARELY FIT AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE HELD FIRMLY IN POSITION UNTIL PROPERLY FASTENED.
6. ALL STUDS SHALL BE ATTACHED BY SCREWS UNLESS NOTED OTHERWISE. WIRE TYING OF FRAMING COMPONENTS IS NOT PERMITTED.
7. ALL CALCULATED STUD PROPERTIES PER AISI SPECIFICATION ARE BASED ON THE FOLLOWING THICKNESS:
A. 12 GAUGE (67 MIL) 0.1017"
B. 14 GAUGE (68 MIL) 0.0713"
C. 16 GAUGE (54 MIL) 0.0566"
D. 18 GAUGE (43 MIL) 0.0451"
E. 20 GAUGE (33 MIL) 0.0346"



TYPICAL CONNECTION DETAILS FOR PRO-X HEADER WITH INSERT PER ICC ESR-1765

- 8. WHEN PUNCHED HOLES IN STUDS ARE PRESENT LOCATE SCREWS SUCH THAT MINIMUM OF 3/8" DISTANCE FROM SCREW TO PUNCHOUT IS PROVIDED.
9. THESE DRAWINGS ASSUME THAT THE PRIMARY STRUCTURE INTENDED TO SUPPORT AND RESIST LOADS PRODUCED BY THE INTERIOR/ EXTERIOR FRAMING SYSTEM HAVE BEEN ADEQUATELY DESIGNED FOR THIS PURPOSE UNLESS SPECIFICALLY NOTED.
10. ALL PRO-X CLIPS ARE 54 MIL.
11. MAXIMUM GAP BETWEEN END OF PRO-X HEADER AND JAMB TO BE 3/8" EACH SIDE.
12. ALL FASTENERS/SCREWS CAN BE INSTALLED IN EITHER DIRECTION (I.E. CLIP TO JAMB OR JAMB TO CLIP).
13. SCREWS SHALL BE #8 OR #10 SHEET METAL SCREWS WITH SUFFICIENT LENGTH TO ENSURE PENETRATION INTO STEEL STUD BY AT LEAST 3 FULL DIAMETER THREADS.
14. CONTRACTOR OPTION: #10 SCREWS MAY BE USED WHERE #8 SCREWS ARE SPECIFIED.
15. CONTRACTOR OPTION: THE USE OF A STUD WITH A LARGER FLANGE OR A THICKER STUD (OR BOTH) THAN THE SPECIFIED STUD IS STRUCTURALLY ACCEPTABLE.



TYPICAL CONNECTION DETAILS FOR PRO-X SILL WITHOUT INSERT PER ICC ESR-1765

5 TYPICAL DETAIL - PRO-X HEADER FRAMING SYSTEM SCALE: NTS

2 TYPICAL DETAIL - SILL AND HEADER CONNECTIONS W/ PRO-X HEADER PER ICC ESR-1765 SCALE: NTS

SSMA NOMENCLATURE/ PRODUCT INFORMATION table with columns for member size, width, depth, and material specifications.

4" WALL SCHEDULES table with columns for wall height, max opening width, and member specifications.

6" WALL SCHEDULES table with columns for wall height, max opening width, and member specifications.

INTERIOR JAMB STUD SCHEDULE - L240 table with columns for wall height, max opening width, and member specifications.

INTERIOR JAMB STUD SCHEDULE - L240 table with columns for wall height, max opening width, and member specifications.

SILL SCHEDULE - L240 table with columns for wall height, max opening width, and member specifications.

SILL SCHEDULE - L240 table with columns for wall height, max opening width, and member specifications.

NOTE: 1) TOP & BTM. TRACK SHALL BE 16GA, THE WIDTH SHALL MATCH WALL STUDS, SEE SHEET S6.1 FOR ADD'L INFO 2) MAX WALL HEIGHT ABOVE HEADER SHALL BE 9'-0"

6 TYPICAL DETAIL - LIGHT GAUGE FRAMING SCHEDULE SCALE: NTS

4 TYPICAL DETAIL - PRO-X HEADER FRAMING SYSTEM SCALE: NTS

1 TYPICAL DETAIL - PRO-X CLIP/JAMB & CLIP/HEADER OUTER CONNECTION SCALE: NTS

NOT FOR CONSTRUCTION

KEY PLAN

PRINCIPAL David Keith RESEARCH PLANNER
STRUCTURAL PRINCIPAL PAUL CONSTANTINI, SE STRUCTURAL ENGINEER STEPHEN BARTAL

REVISIONS table with columns for revision number, description, and date.

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY SGB DATE 05.24.2024
PROJECT NO. 20230523 SCALE 3/4" = 1'-0"

TYPICAL PRO-X HEADER DETAILS

FLOOR/SECTION PHASE DRAWING NO. CD S5.6



KEY PLAN

PRINCIPAL
David Keith
RESEARCH PLANNER

STRUCTURAL PRINCIPAL
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STRUCTURAL ENGINEER
STEPHEN BARTAL

REVISIONS

NO.	BY	DESCRIPTION	DATE
D		ISSUED FOR GC BIDDING	11.08.2024
C			10.11.2024
B		ISSUED FOR OWNER'S REVIEW	09.26.2024
A		DESIGN DEVELOPMENT	05.24.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY _____ SB DATE 05.24.2024

PROJECT NO. 20230523 SCALE As indicated

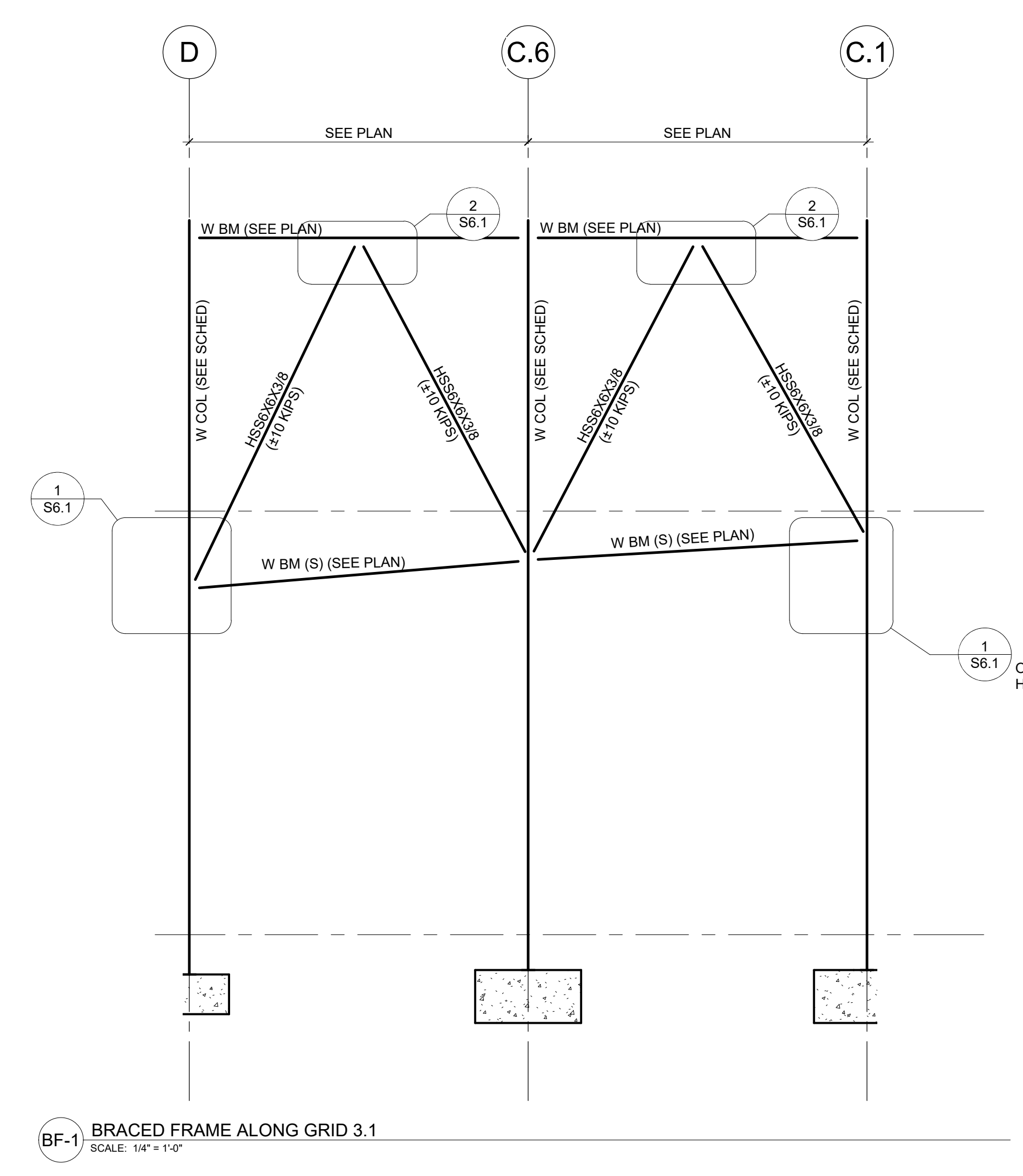
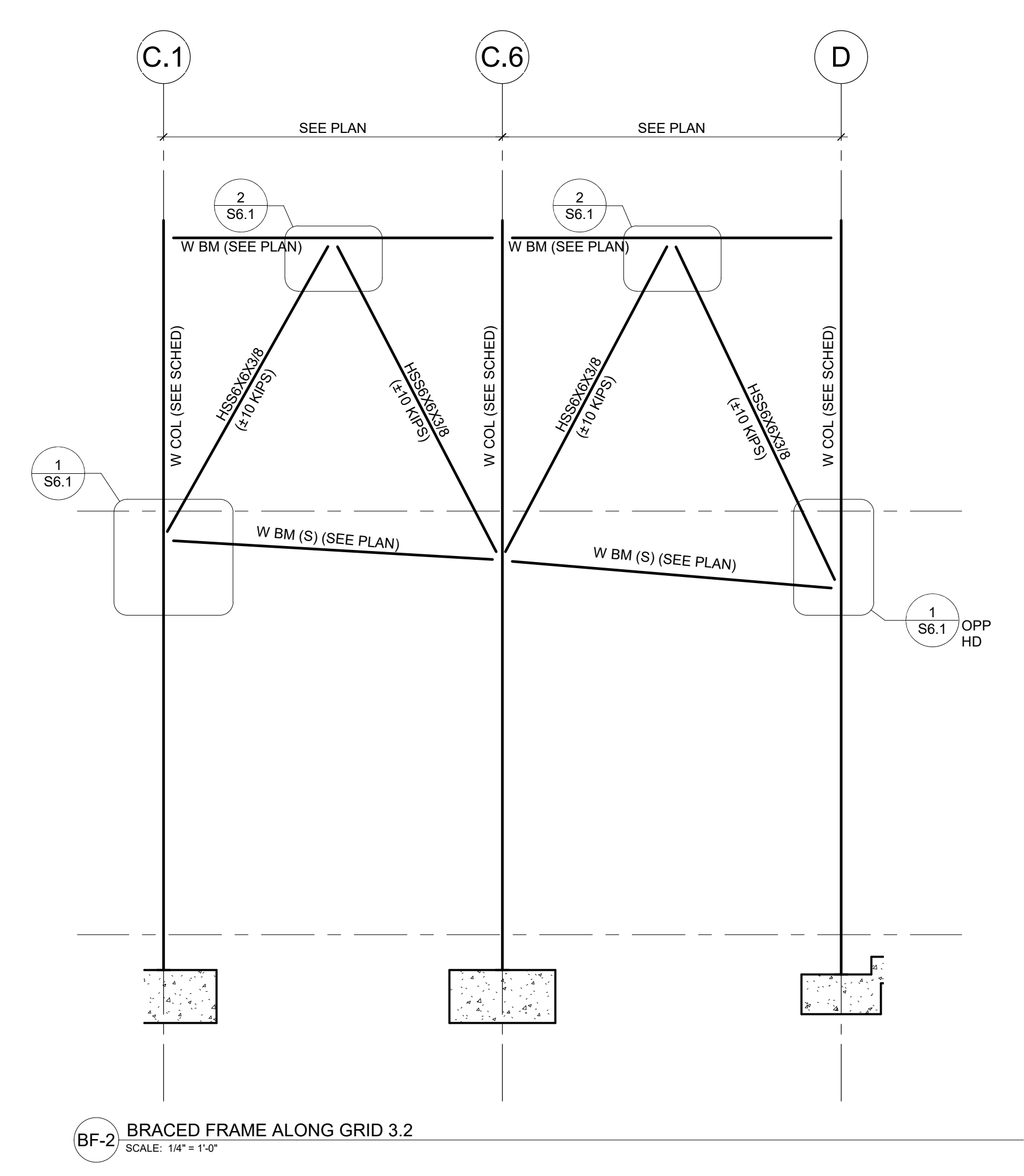
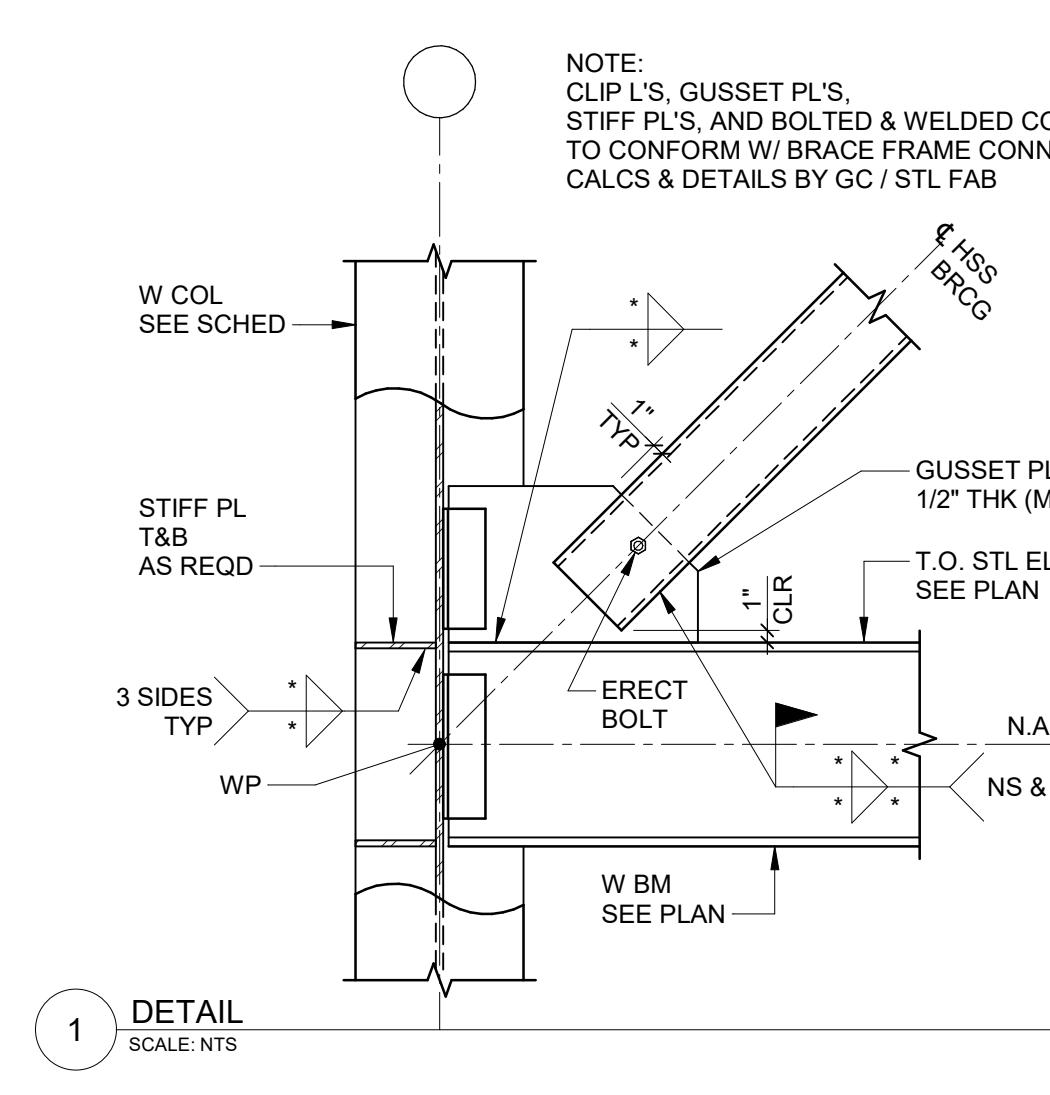
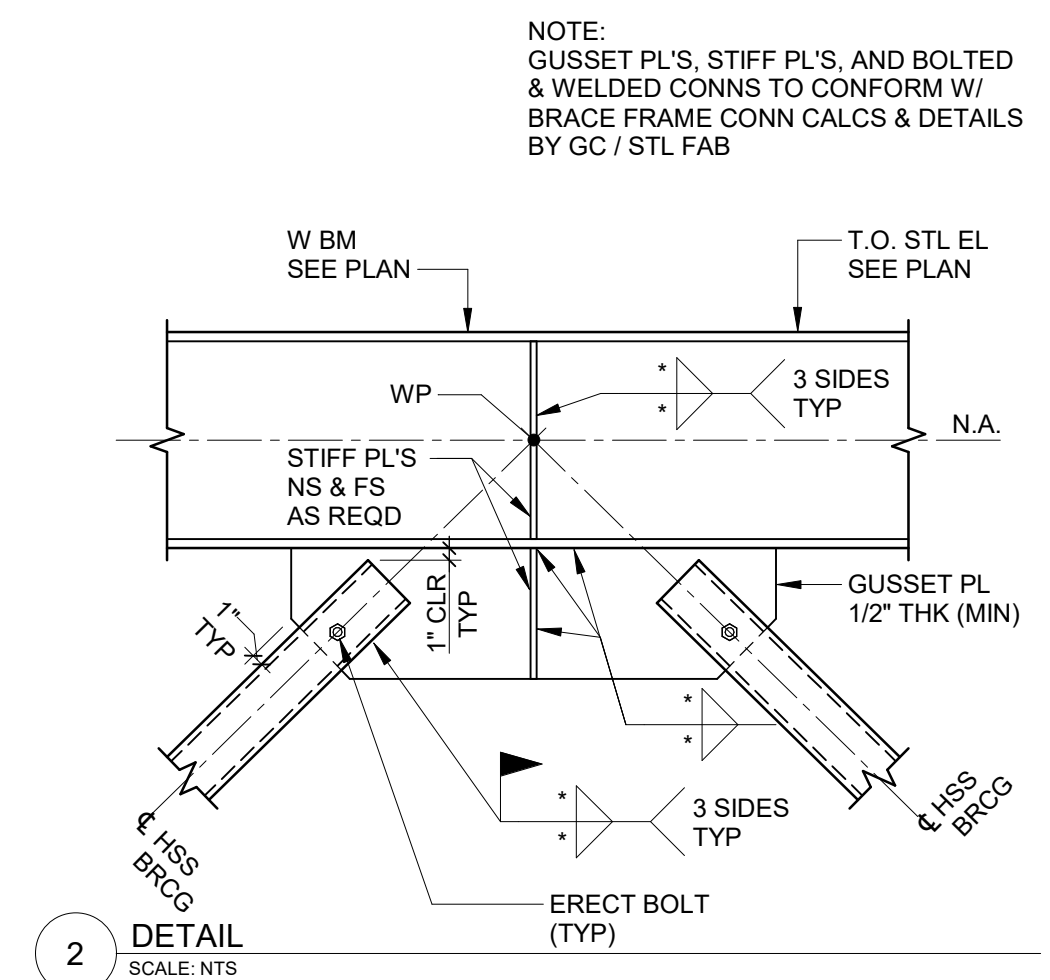
DRAWING NAME

BRACED FRAME ELEVATIONS AND DETAILS

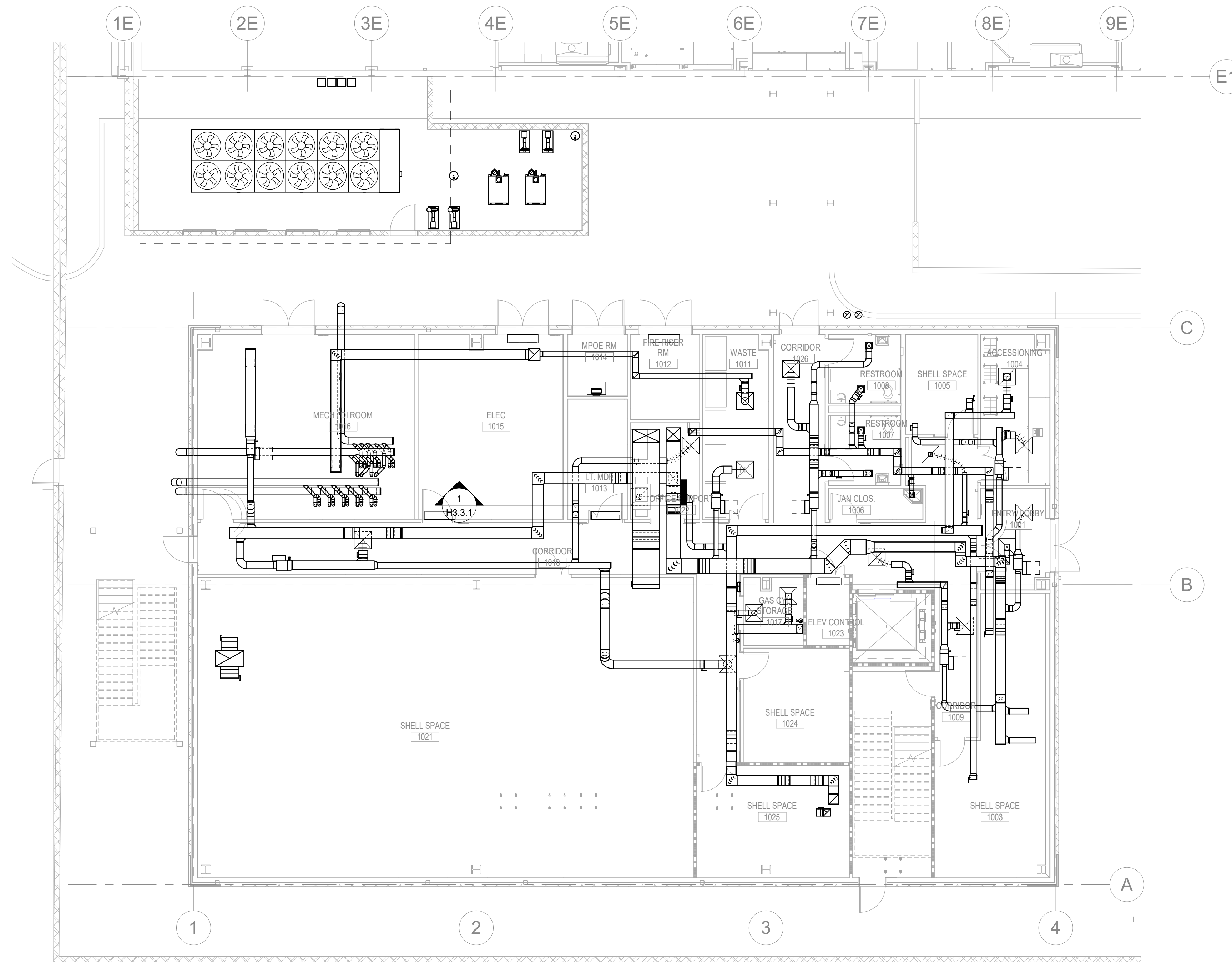
FLOOR/SECTION PHASE DRAWING NO.

NOT FOR CONSTRUCTION

CD S6.1

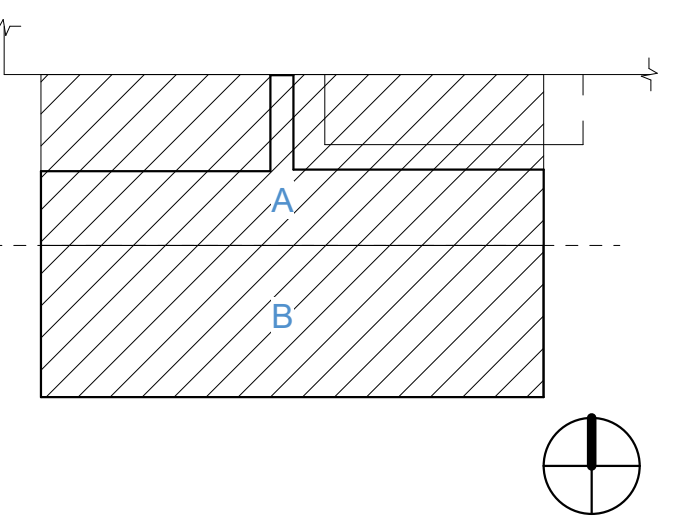


11/11/2024 8:53:03 AM Autodesk Docs://20230523 - South Nevada Health District M.L.K. Bldg - 3 LAB/20230523_S02_CENTRAL.rvt



1 LEVEL 1 - DUCTWORK REFERENCE PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



PRINCIPAL
David Keith
RESEARCH PLANNER
Steph Vargas
PROJECT ENGINEER
Tony Castro
MECHANICAL MODEL LEAD
Tina Kawagishi

REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D			10.11.2024
C		ISSUED FOR OWNER'S REVIEW	09.26.2024
B		DESIGN DEVELOPMENT	05.24.2024
A		50% D.D SET	05.10.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY _____ TK DATE 11.08.2024

PROJECT NO. 20230523 SCALE 1/8" = 1'-0"

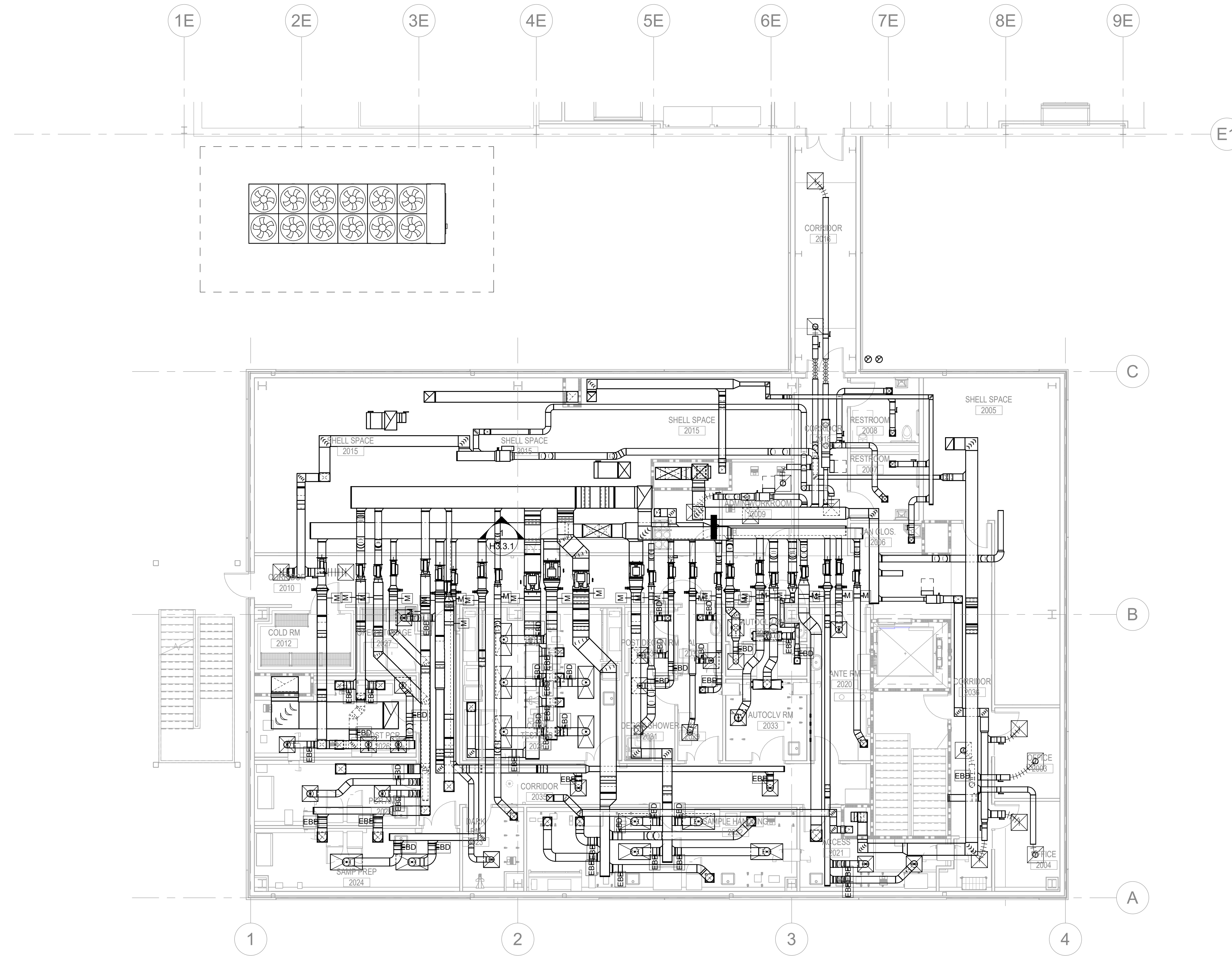
DRAWING NAME

LEVEL 1 DUCTWORK REFERENCE PLAN

FLOOR/SECTION PHASE DRAWING NO.

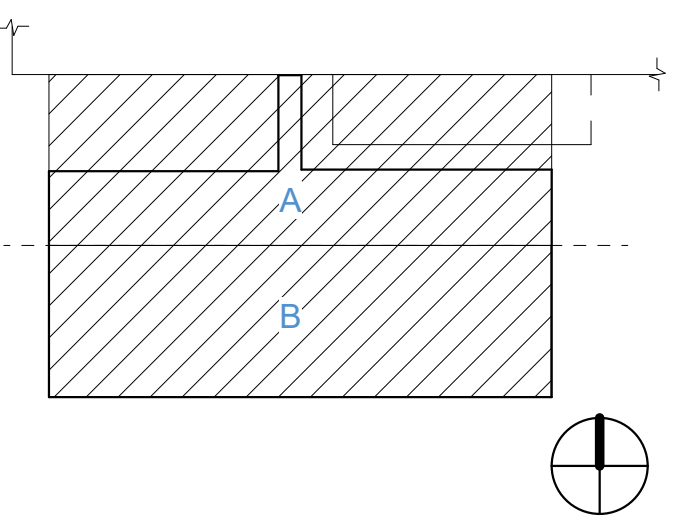
NOT FOR CONSTRUCTION

CD H1.1



1 LEVEL 2 - DUCTWORK REFERENCE PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



PRINCIPAL
David Keith

RESEARCH PLANNER
Steph Vargas

PROJECT ENGINEER
Tony Castro

MECHANICAL MODEL LEAD
Tina Kawagishi

REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D			10.11.2024
C		ISSUED FOR OWNER'S REVIEW	09.26.2024
B		DESIGN DEVELOPMENT	05.24.2024
A		50% D D SET	05.10.2024

Southern Nevada Health District
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DRAWN BY TK DATE 11.08.2024

PROJECT NO. 20230523 SCALE 1/8" = 1'-0"

DRAWING NAME

LEVEL 2 DUCTWORK REFERENCE PLAN

FLOOR/SECTION PHASE DRAWING NO.

NOT FOR CONSTRUCTION

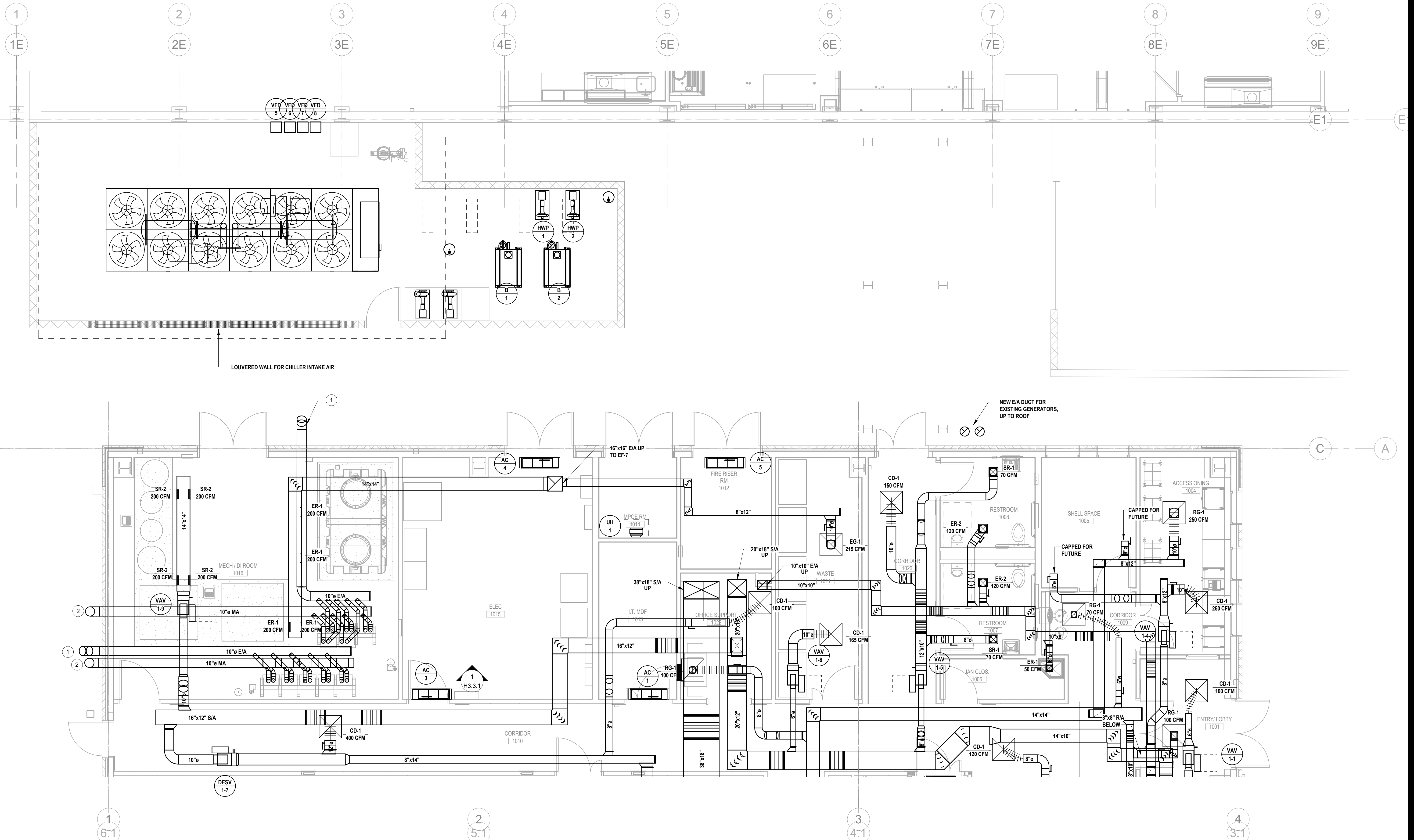
CD H1.2

GENERAL NOTES

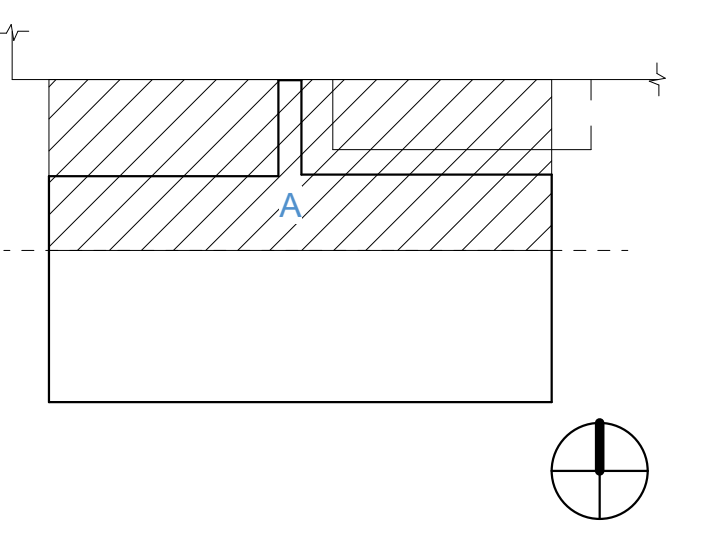
1. GAS DETECTION SYSTEM SHALL BE PROVIDED FOR ROOMS HOUSING LAB GAS CYLINDERS AND THE CHEMICAL / FLAMMABLE STORAGE ROOMS.
2. ALL LAB EXHAUST DUCTWORK SHALL BE 316 STAINLESS STEEL, WELDED.
3. ALL LAB SUPPLY AIR DUCTWORK SHALL BE 316 STAINLESS STEEL BETWEEN THE BUBBLE-TIGHT DAMPER AND DIFFUSER.
4. ALL SUPPLY AND RETURN AIR DUCTWORK LOCATED OUTDOORS (ON THE ROOF) SHALL BE DOUBLE WALL CONSTRUCTION, INSULATED.

KEY NOTES #

1. FLUE VENT IN THE HORIZONTAL RUN TO BE SLOPED AT 2% BACK TOWARDS THE WATER HEATER. EXHAUST VENT SIDE WALL TERMINATION SHALL BE A 45° ELBOW. PROVIDE SCREEN WITH MINIMUM 3/4" MESH SPACING. SEE PLUMBING DRAWINGS FOR CONDENSATE DRAIN ON THE EXHAUST DUCT RUN. REFER TO MANUFACTURER INSTALLATION MANUAL.
2. SEALED COMBUSTION DUCT FOR WATER HEATER TO TERMINATE AT THE SIDE OF BUILDING WITH SCREEN MINIMUM 3/4" MESH SPACING. AIR INTAKE TO TERMINATE WITH A 90° ELBOW. REFER TO MANUFACTURER INSTALLATION MANUAL.



KEY PLAN



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MECHANICAL MODEL LEAD
Tina Kawagishi

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Las Vegas, NV 89106

DRAWN BY TK DATE 11.08.2024
PROJECT NO. 20230523 SCALE 1/4" = 1'-0"

DRAWING NAME
FLOOR PLAN LEVEL 1 SECTOR A - DUCTWORK

FLOOR/SECTION PHASE DRAWING NO.
1 CD H2.1.1A

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

NOT FOR CONSTRUCTION

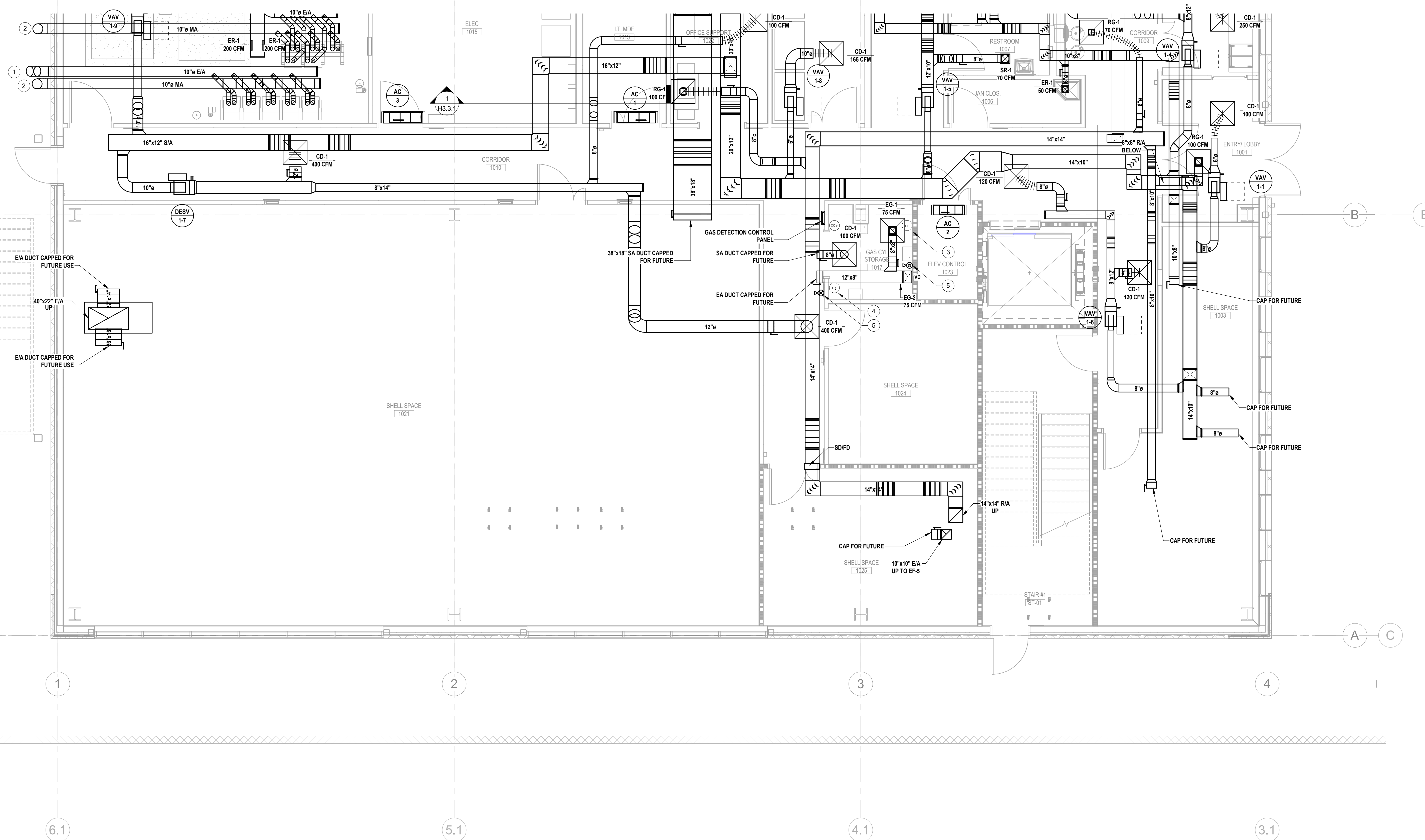
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GENERAL NOTES

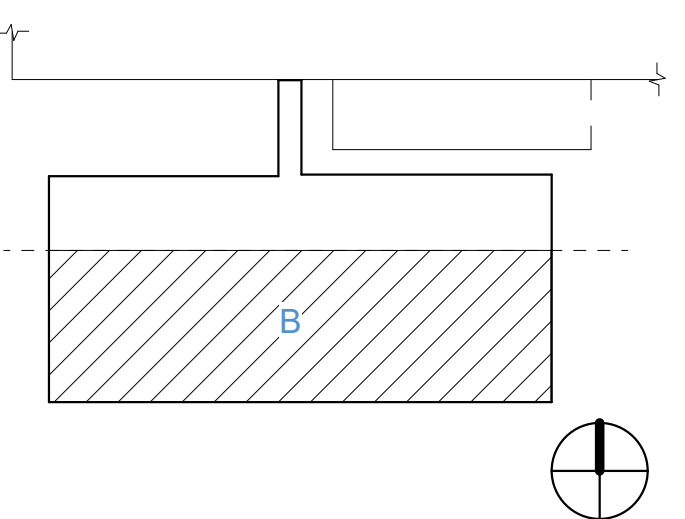
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3. ALL LAB SUPPLY AIR DUCTWORK SHALL BE 316 STAINLESS STEEL BETWEEN THE BUBBLE-TIGHT DAMPER AND DIFFUSER.
4. ALL SUPPLY AND RETURN AIR DUCTWORK LOCATED OUTDOORS (ON THE ROOF) SHALL BE DOUBLE WALL CONSTRUCTION, INSULATED.

KEY NOTES #

1. FLUE VENT IN THE HORIZONTAL RUN TO BE SLOPED AT 2% BACK TOWARDS THE WATER HEATER. EXHAUST VENT SIDE WALL TERMINATION SHALL BE A 45° ELBOW. PROVIDE SCREEN WITH MINIMUM 3/4" MESH SPACING. SEE PLUMBING DRAWINGS FOR CONDENSATE DRAIN ON THE EXHAUST DUCT RUN. REFER TO MANUFACTURER INSTALLATION MANUAL.
2. SEALED COMBUSTION DUCT FOR WATER HEATER TO TERMINATE AT THE SIDE OF BUILDING WITH SCREEN MINIMUM 3/4" MESH SPACING. AIR INTAKE TO TERMINATE WITH A 90° ELBOW. REFER TO MANUFACTURER INSTALLATION MANUAL.
3. HELIUM GAS DETECTOR ELEVATION TO BE NEAR CEILING HEIGHT.
4. CO2 AND OXYGEN GAS DETECTION ELEVATION TO BE PLACED BETWEEN 36" TO 48" FROM TOP OF SENSOR.
5. AUDIO VISUAL ALARM



KEY PLAN



PRINCIPAL
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RESEARCH PLANNER
Steph Vargas
PROJECT ENGINEER
Tony Castro
MECHANICAL MODEL LEAD
Tina Kawagishi

REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D		ISSUED FOR OWNER'S REVIEW	10.11.2024
C		DESIGN DEVELOPMENT	09.26.2024
B		50% D.D SET	05.24.2024
A			05.10.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY TK DATE 11.08.2024

PROJECT NO. 20230523 SCALE 1/4" = 1'-0"

DRAWING NAME

FLOOR PLAN LEVEL 1 SECTOR B - DUCTWORK

FLOOR/SECTION PHASE DRAWING NO.

1 CD H2.1.1B

NOT FOR CONSTRUCTION

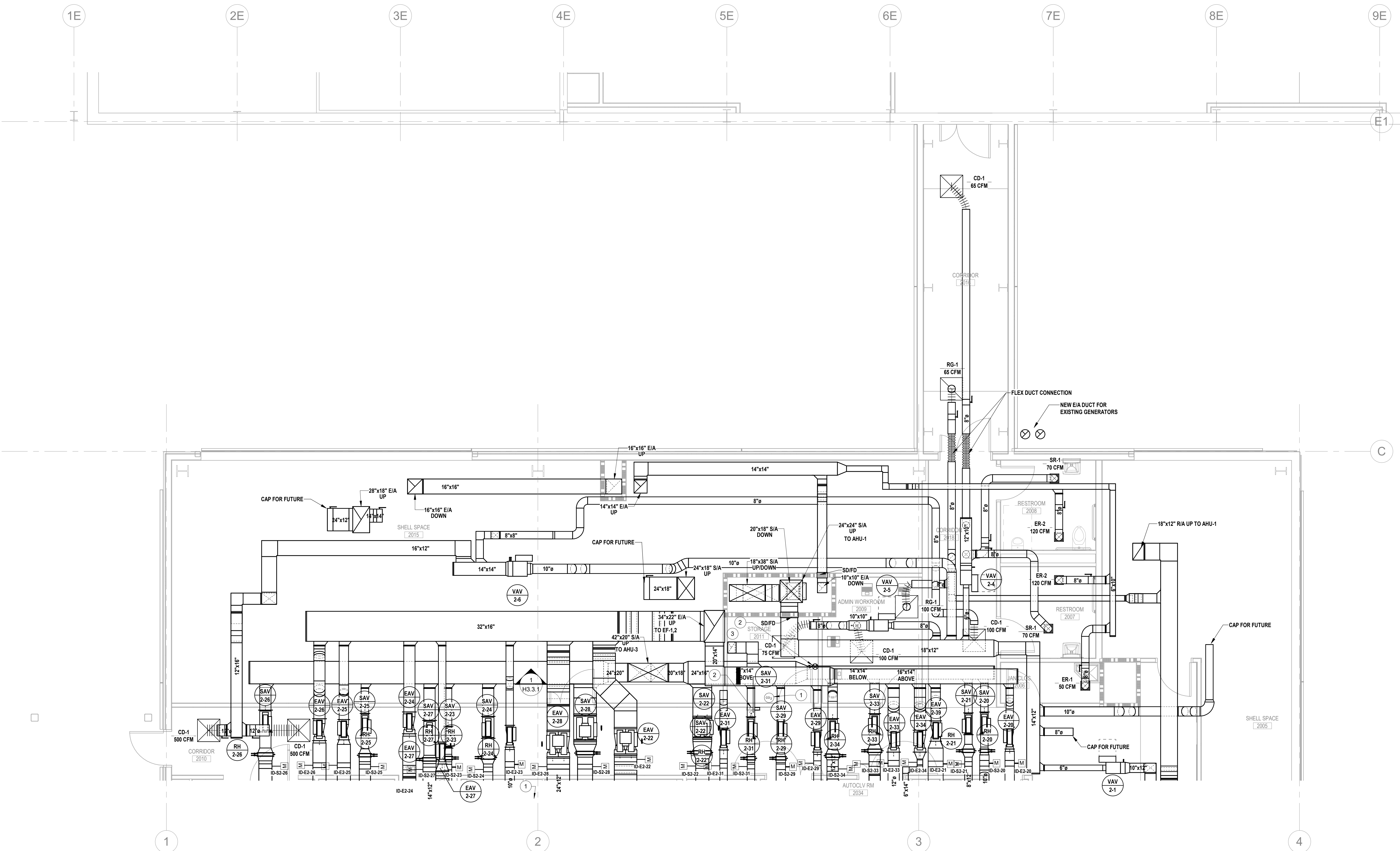
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SCALE: 1/4" = 1'-0"

GENERAL NOTES

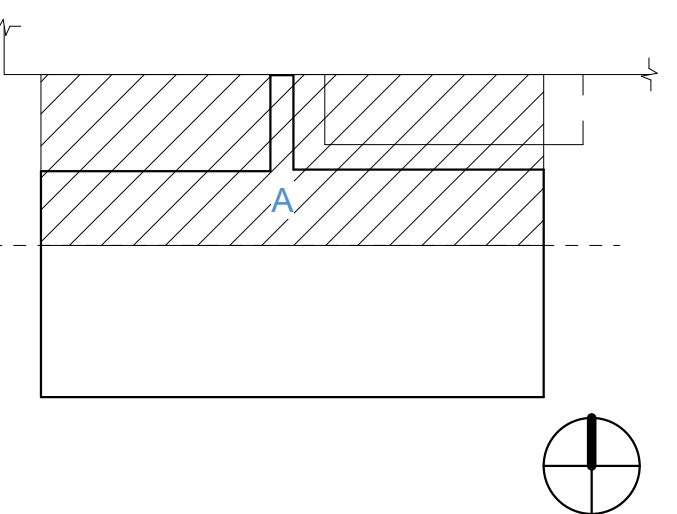
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KEY NOTES #

1. CO2 GAS DETECTION ELEVATION TO BE PLACED BETWEEN 36" TO 48" FROM TOP OF SENSOR.
2. AUDIO VISUAL ALARM UP HIGH AND GAS DETECTION CONTROL PANEL BELOW.
3. LOW WALL AIR EXHAUST 12"x8"



KEY PLAN



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PROJECT NO. 20230523 SCALE 1/4" = 1'-0"

DRAWING NAME

FLOOR PLAN LEVEL 2 SECTOR A - DUCTWORK

FLOOR/SECTION PHASE DRAWING NO.

2 CD H2.2.1A

1 LEVEL 2 - SECTOR A
SCALE: 1/4" = 1'-0"

NOT FOR CONSTRUCTION

GENERAL NOTES

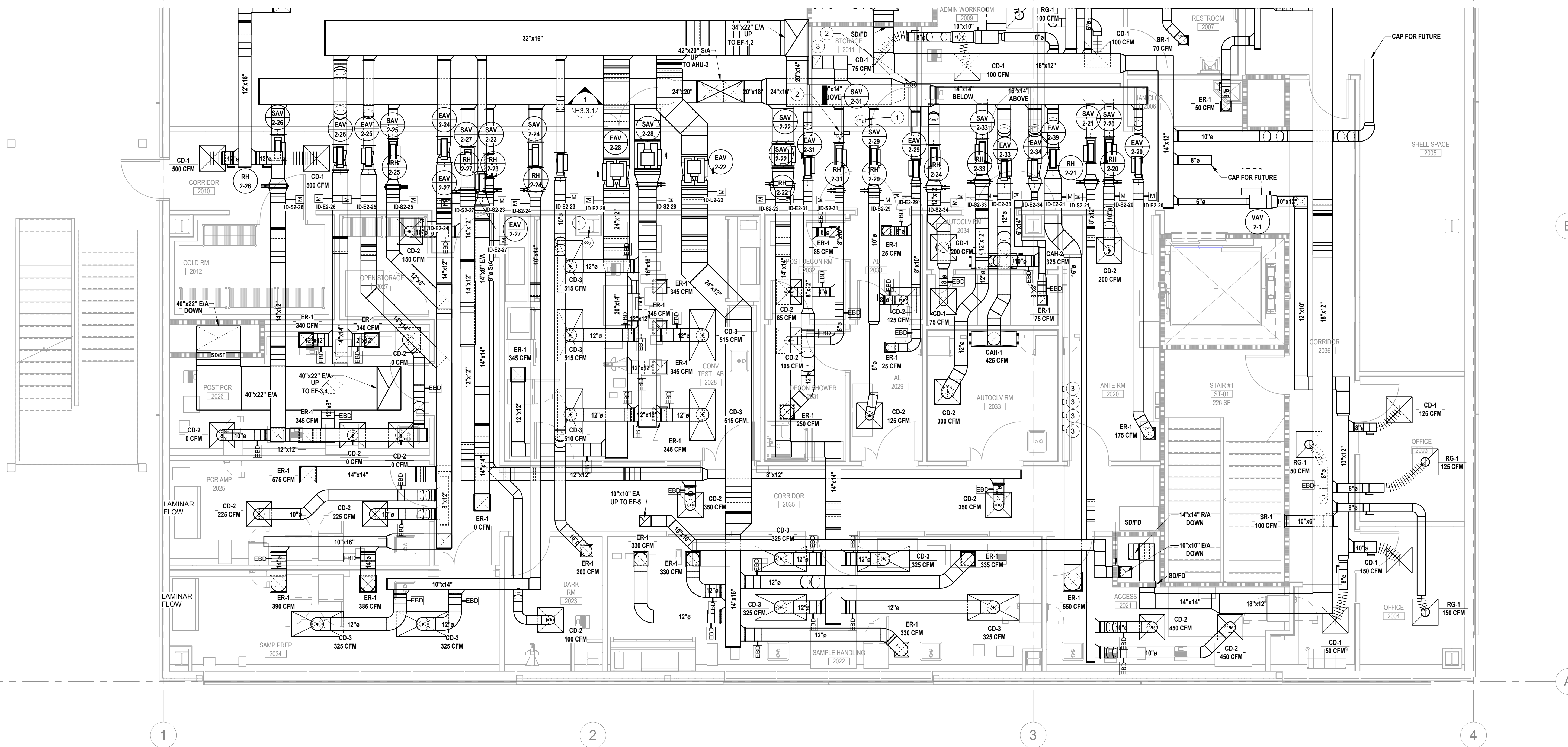
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KEY NOTES

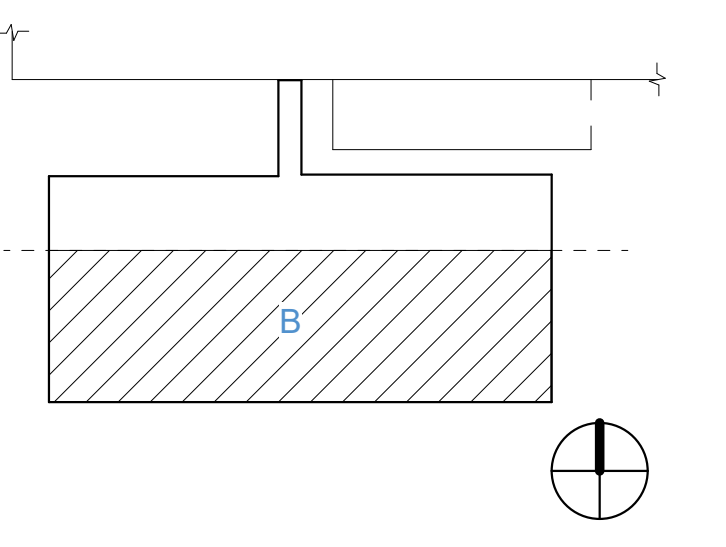
1. CO2 GAS DETECTION ELEVATION TO BE PLACED BETWEEN 36" TO 48" FROM TOP OF SENSOR.
2. AUDIO VISUAL ALARM UP HIGH AND GAS DETECTION CONTROL PANEL BELOW.
3. 12 PORT ELECTRONIC BALANCING DAMPER (EBD) WALL UNIT.

LEGENDS

- M MOTORIZED ISOLATION DAMPER
- EBD ELECTRIC BALANCING DAMPER



KEY PLAN



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PROJECT NO. 20230523 SCALE 1/4" = 1'-0"

DRAWING NAME
FLOOR PLAN LEVEL 2 SECTOR B - DUCTWORK

FLOOR/SECTION PHASE DRAWING NO.
2 CD H2.2.1B

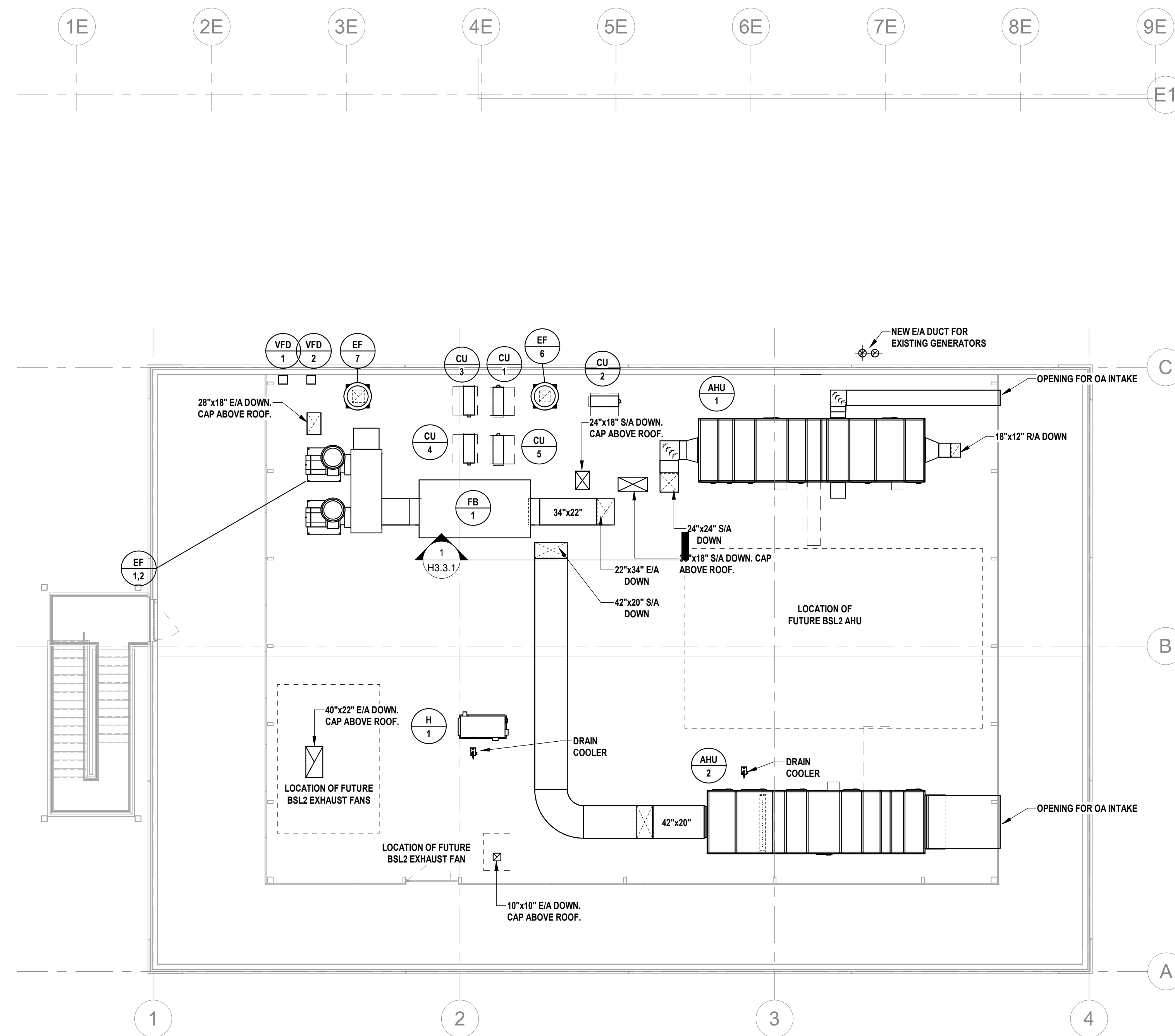
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SCALE: 1/4" = 1'-0"

NOT FOR CONSTRUCTION

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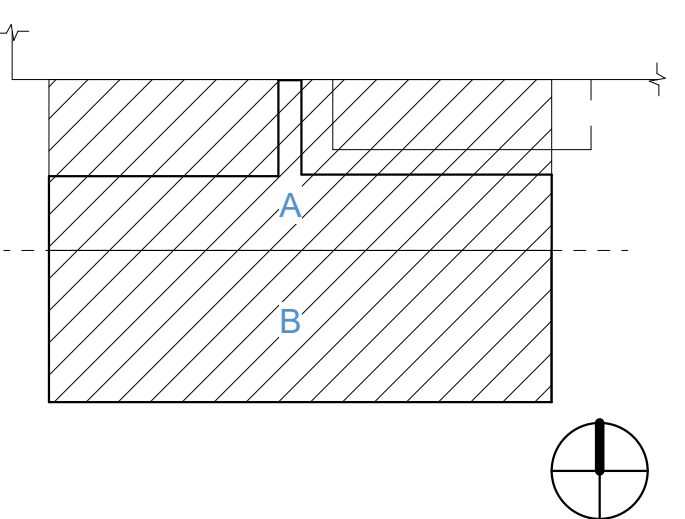
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1 ROOF PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



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PROJECT NO. 20230523 SCALE 1/8" = 1'-0"

DRAWING NAME

ROOF PLAN - DUCTWORK

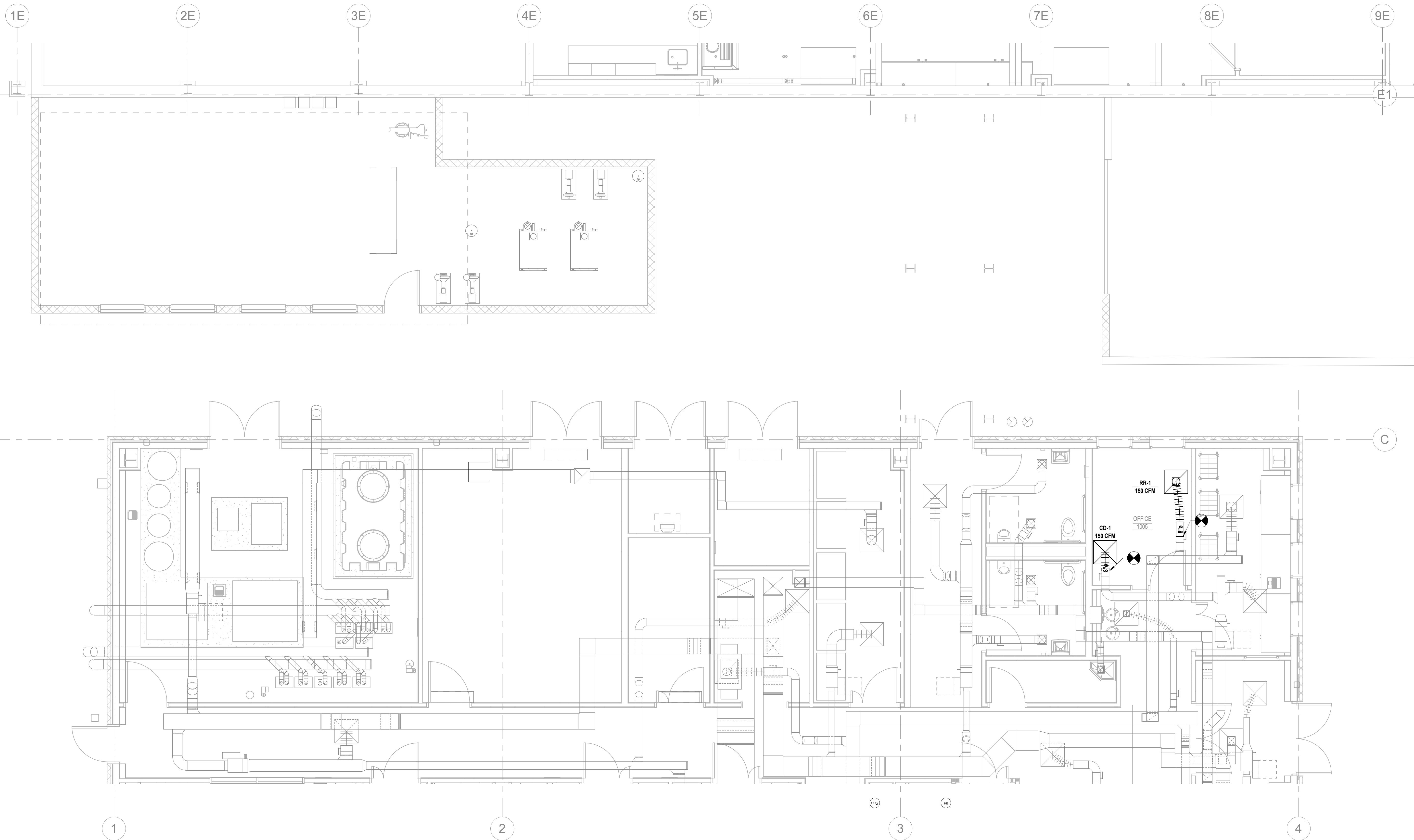
FLOOR/SECTION PHASE DRAWING NO.

RF CD H2.3.1A

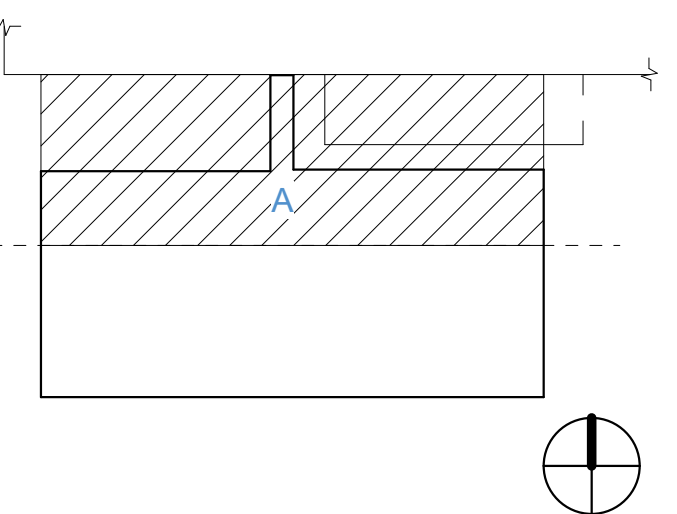
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PROJECT NO. 20230523 SCALE 1/4" = 1'-0"

DRAWING NAME

FLOOR PLAN LEVEL 1 SECTOR A - DUCTWORK PHASE 2

FLOOR/SECTION PHASE DRAWING NO.

1 CD H2.1.1A.2

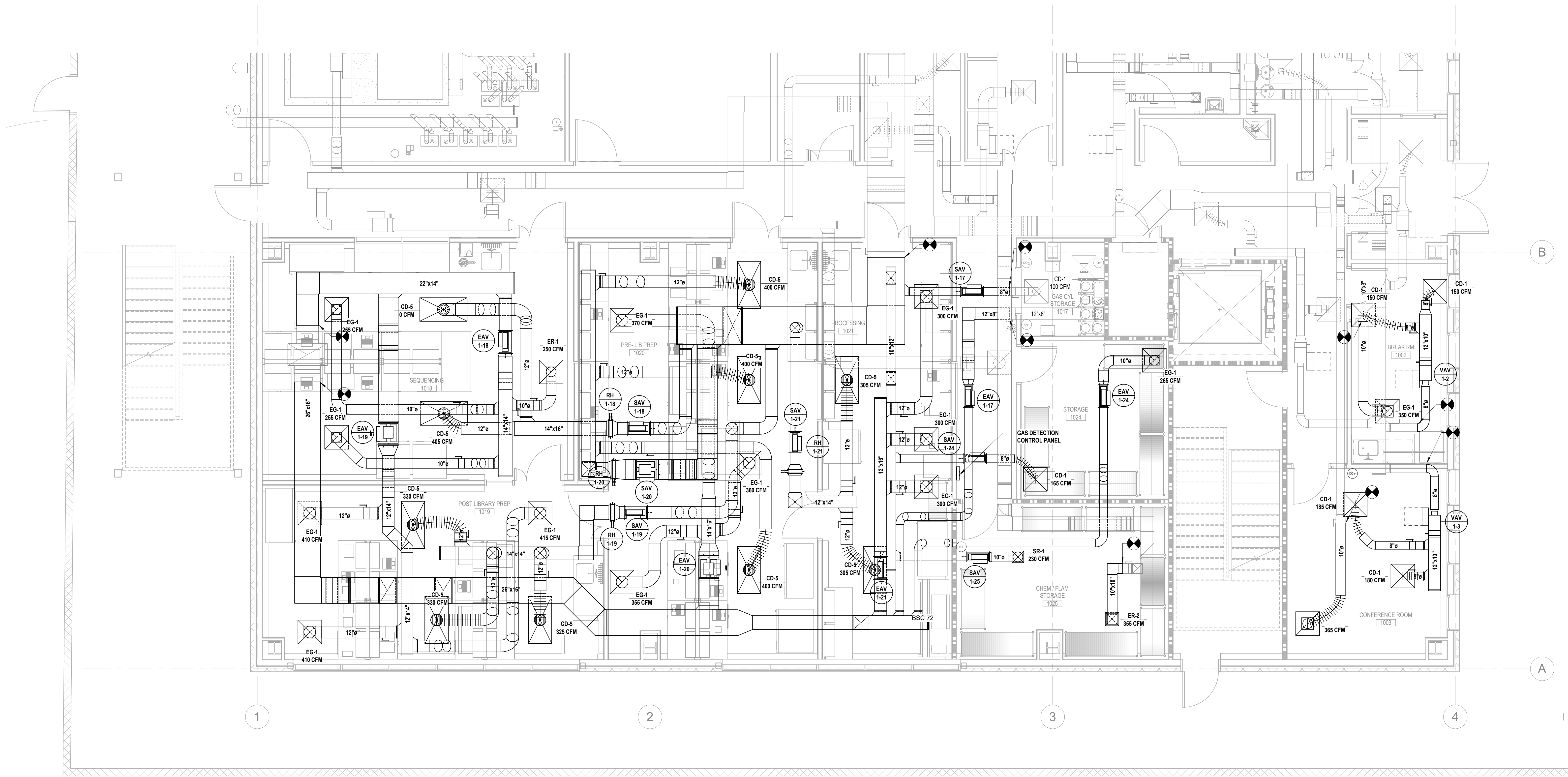
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1 LEVEL 1 - SECTOR A
SCALE: 1/4" = 1'-0"

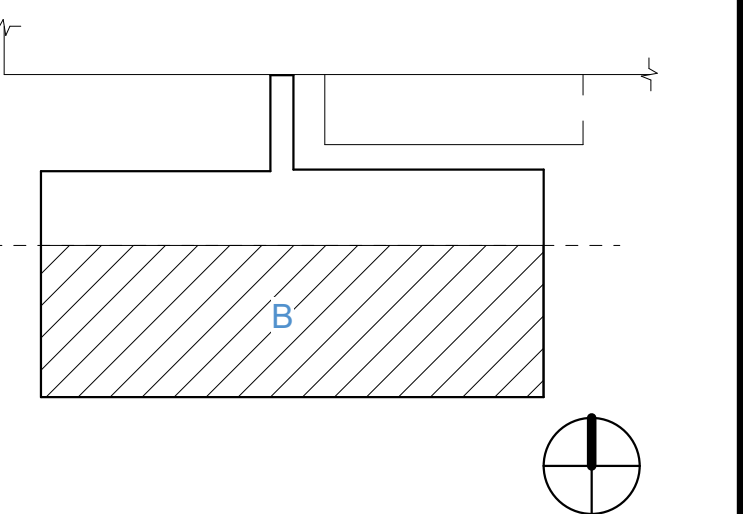
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KEY PLAN



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PROJECT NO. 20230523 SCALE 1/4" = 1'-0"

DRAWING NAME

FLOOR PLAN LEVEL 1 SECTOR B - DUCTWORK PHASE 2

FLOOR/SECTION PHASE DRAWING NO.

1 CD H2.1.1B.2

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

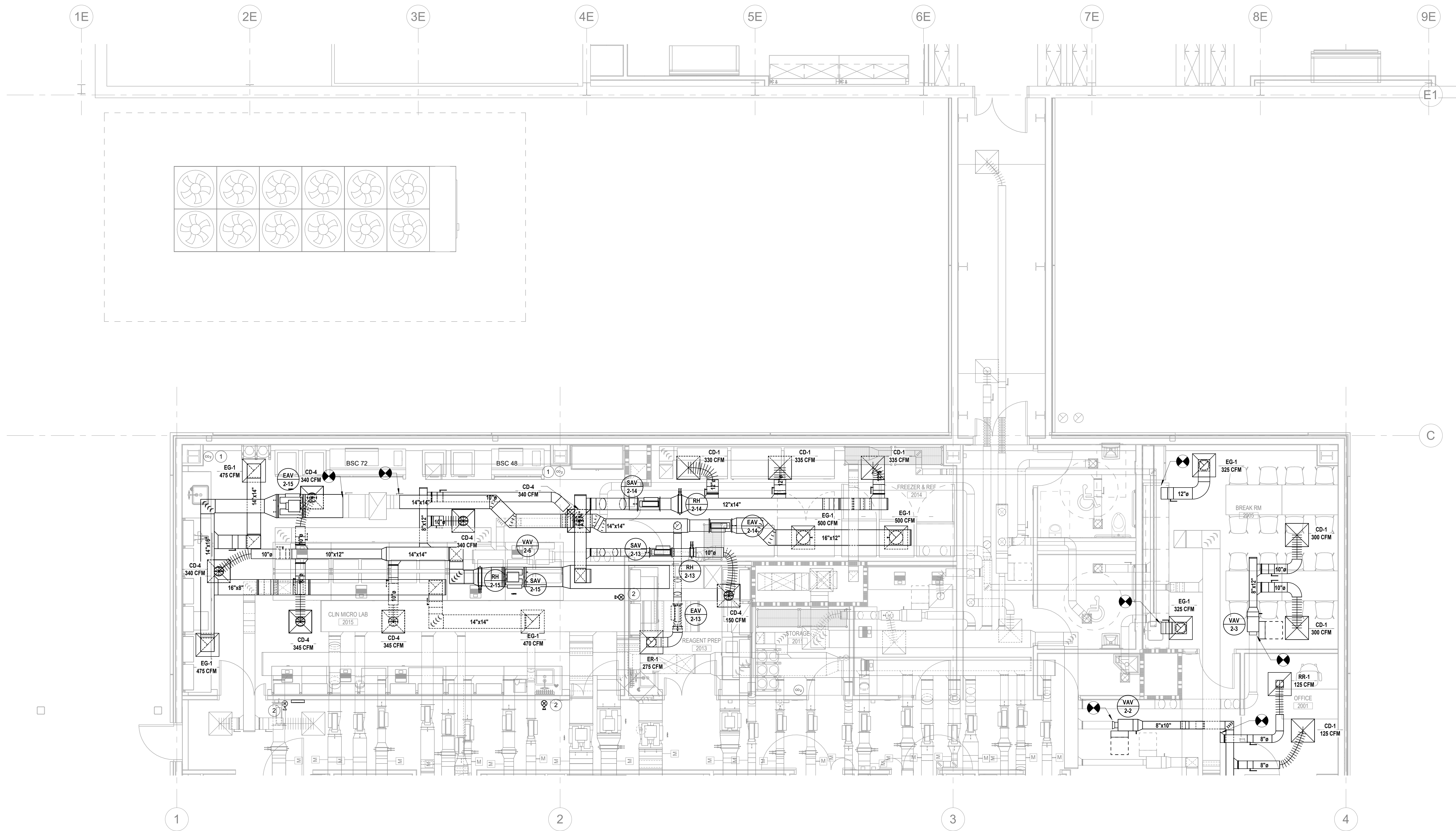
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GENERAL NOTES

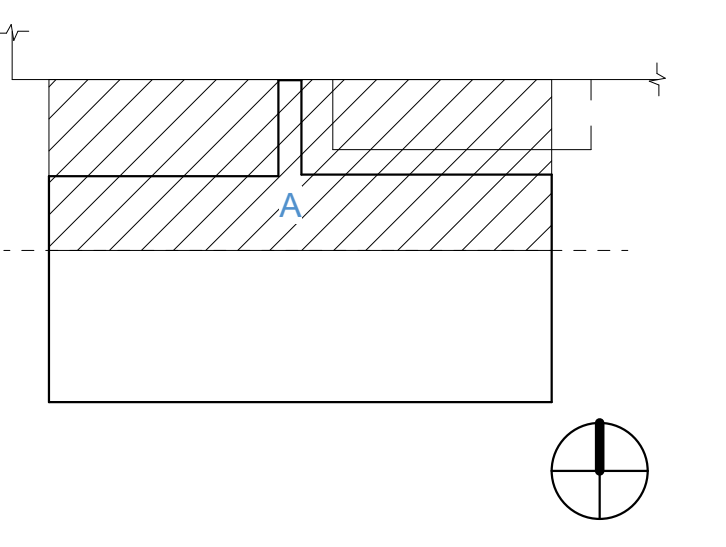
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KEY NOTES #

1. CO2 GAS DETECTION ELEVATION TO BE PLACED BETWEEN 36" TO 48" FROM TOP OF SENSOR.
2. AUDIO VISUAL ALARM



KEY PLAN



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Las Vegas, NV 89106

DRAWN BY	TK	DATE	11.08.2024
PROJECT NO.	20230523	SCALE	1/4" = 1'-0"
DRAWING NAME	FLOOR PLAN LEVEL 2 SECTOR A - DUCTWORK PHASE 2		
FLOOR/SECTION	PHASE	DRAWING NO.	
2	CD	H2.2.1A.2	

NOT FOR CONSTRUCTION

1 LEVEL 2 - SECTOR A
SCALE: 1/4" = 1'-0"

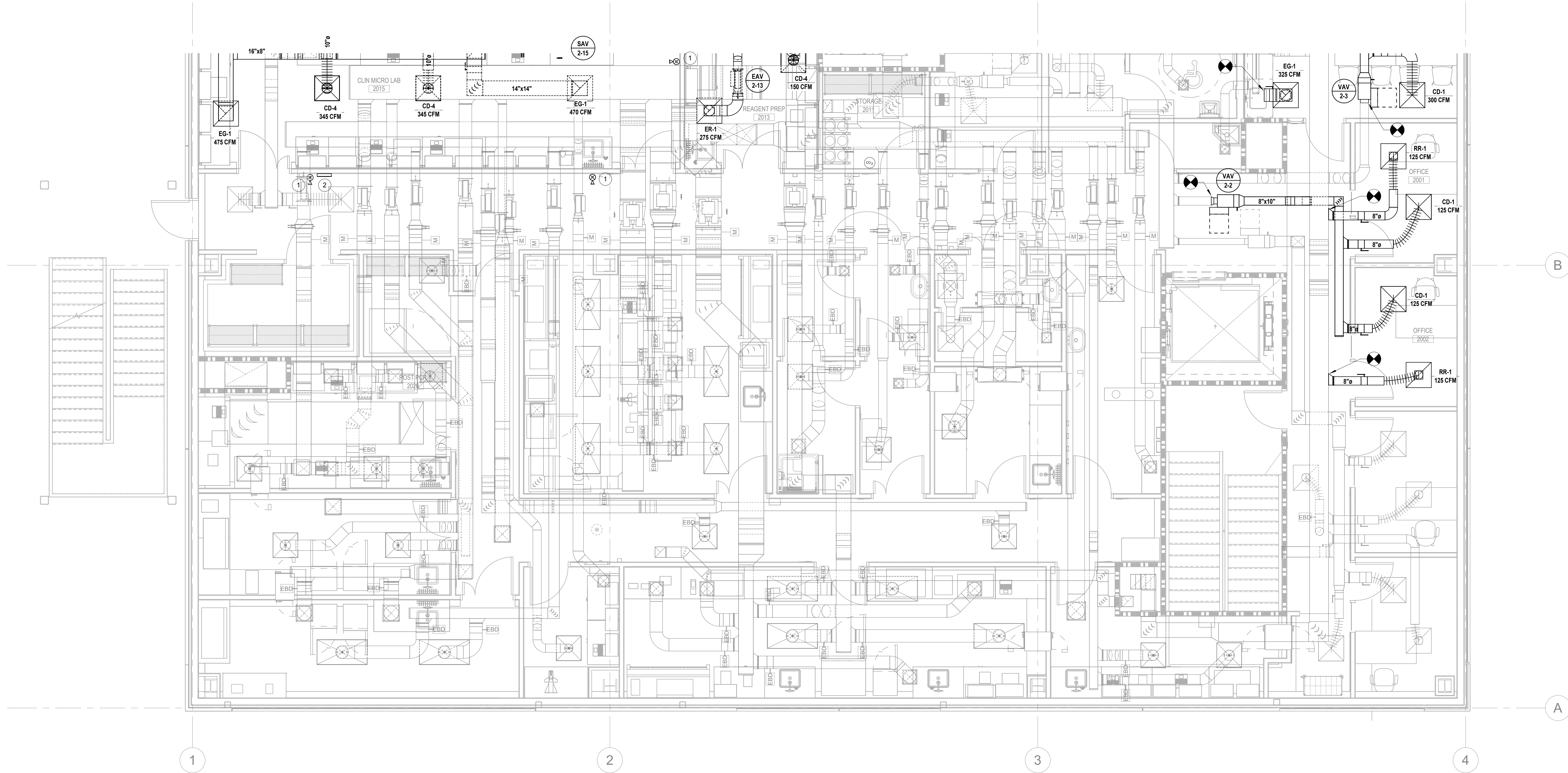
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GENERAL NOTES

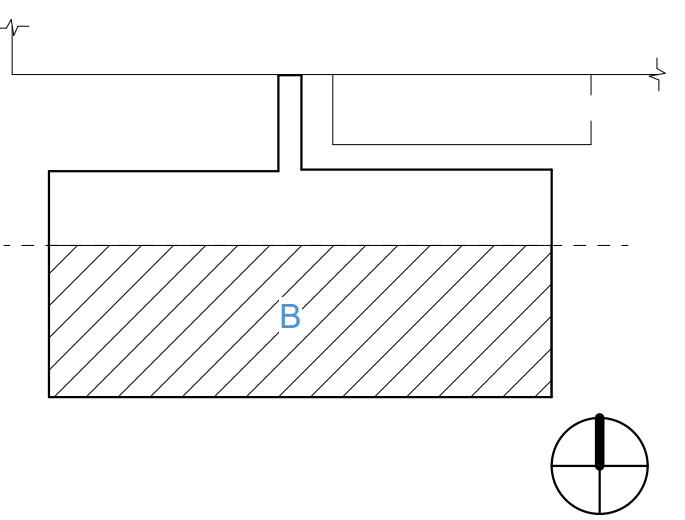
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KEY NOTES #

1. AUDIO VISUAL ALARM
2. GAS DETECTION CONTROL PANEL



KEY PLAN



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Southern Nevada Health District
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PROJECT NO. 20230523 SCALE 1/4" = 1'-0"

DRAWING NAME

FLOOR PLAN LEVEL 2 SECTOR B - DUCTWORK PHASE 2

FLOOR/SECTION PHASE DRAWING NO.

2 CD H2.2.1B.2

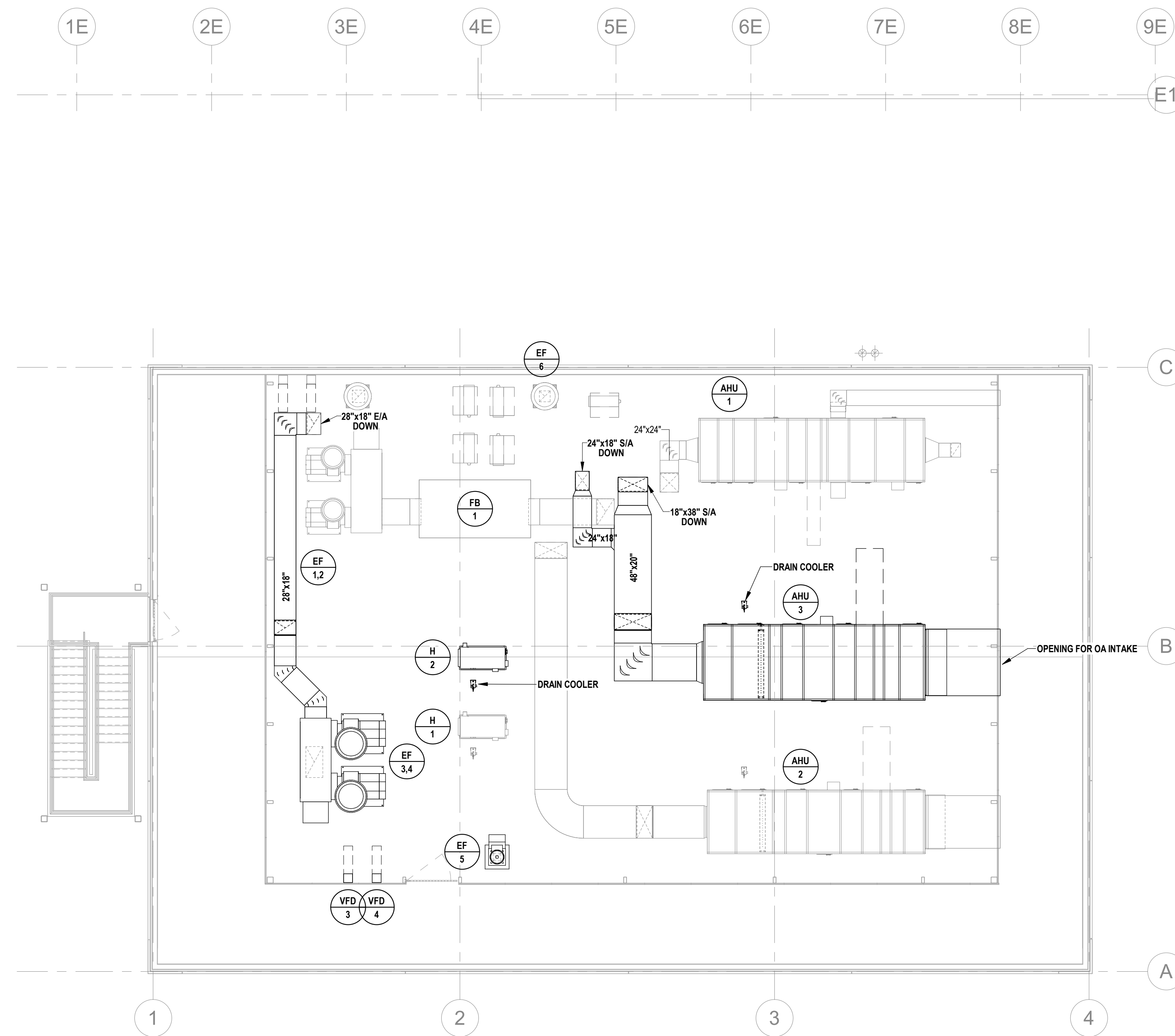
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NOT FOR CONSTRUCTION

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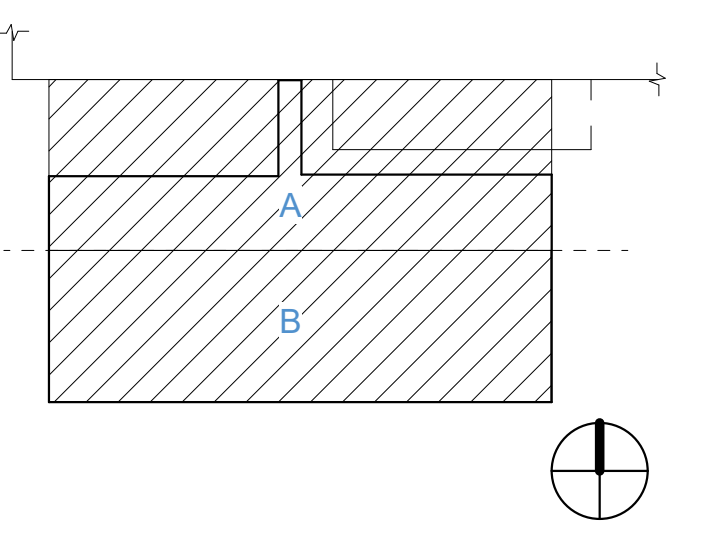
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1 ROOF PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



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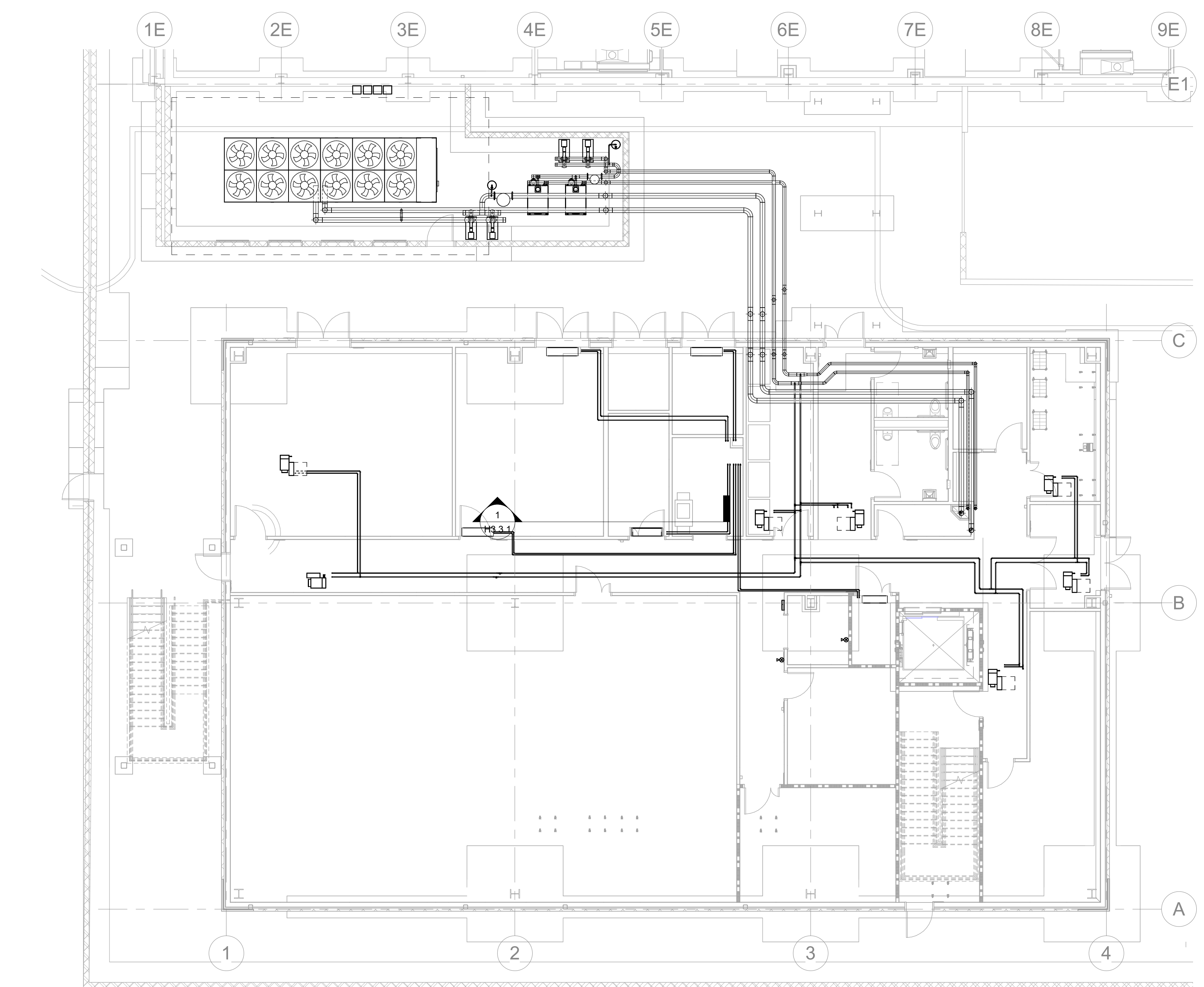
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PROJECT NO. 20230523 SCALE 1/8" = 1'-0"

DRAWING NAME
ROOF PLAN - DUCTWORK - PHASE 2

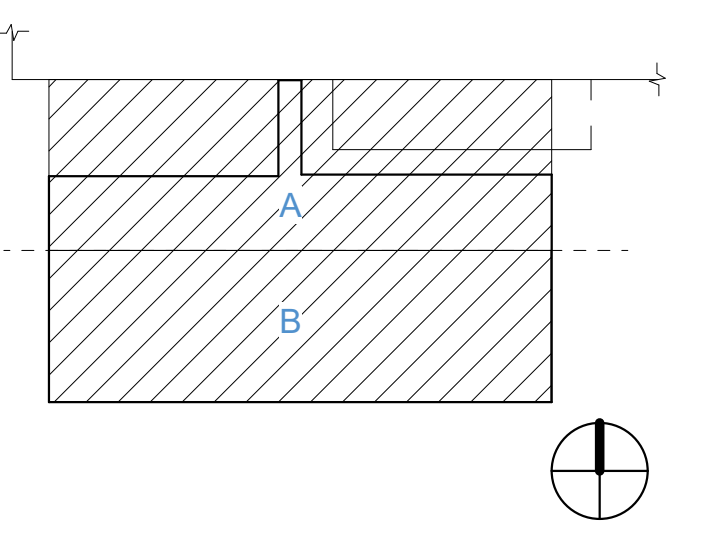
FLOOR/SECTION PHASE DRAWING NO.
RF CD H2.3.1A.2

NOT FOR CONSTRUCTION



1 LEVEL 1 - PIPING REFERENCE PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN

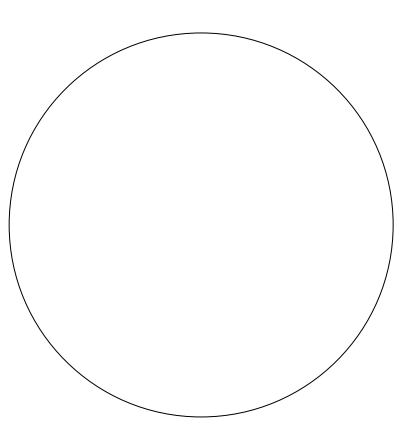


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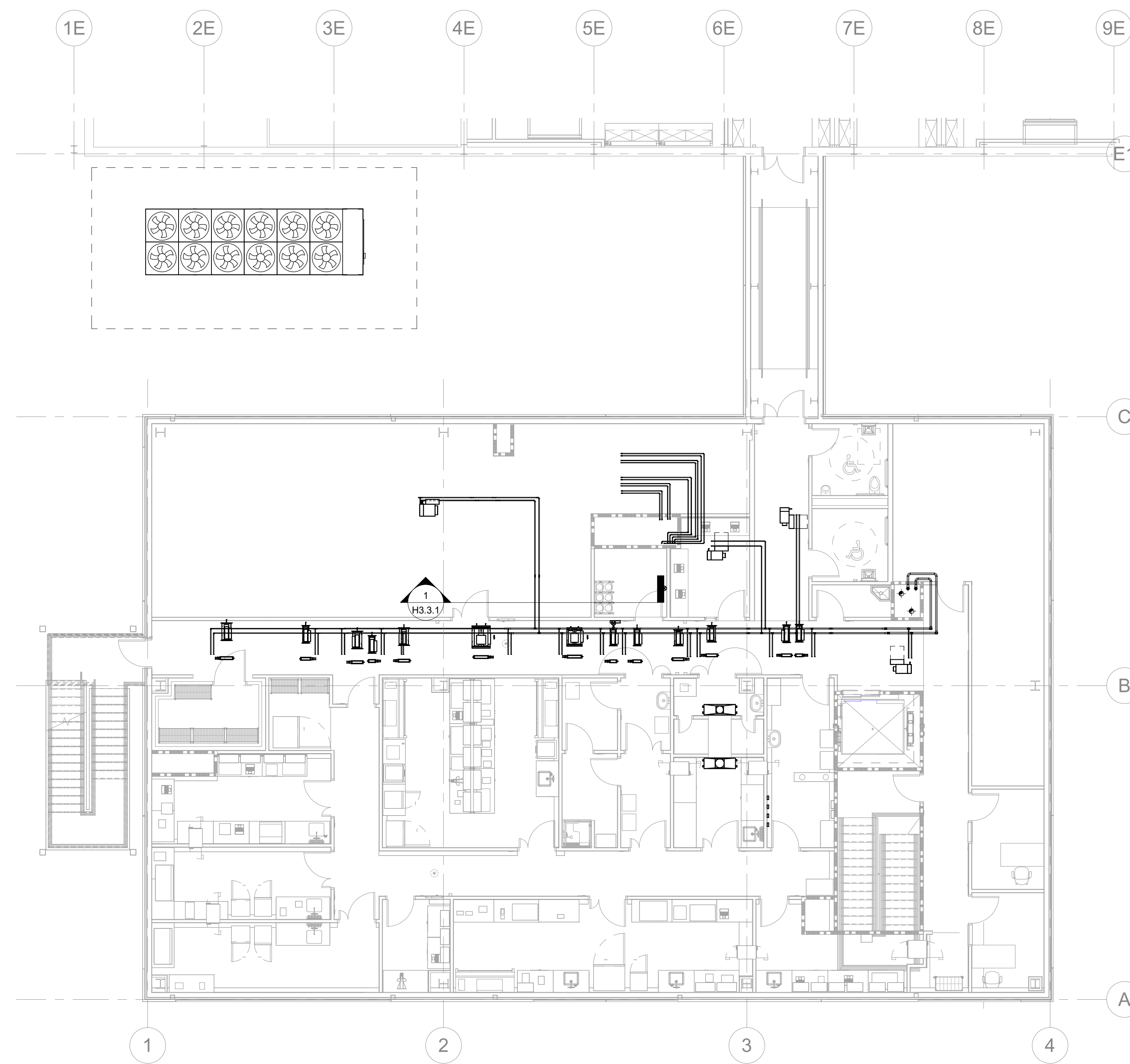
PROJECT NO. 20230523 SCALE 1/8" = 1'-0"

DRAWING NAME
LEVEL 1 PIPING REFERENCE PLAN

FLOOR/SECTION PHASE DRAWING NO.

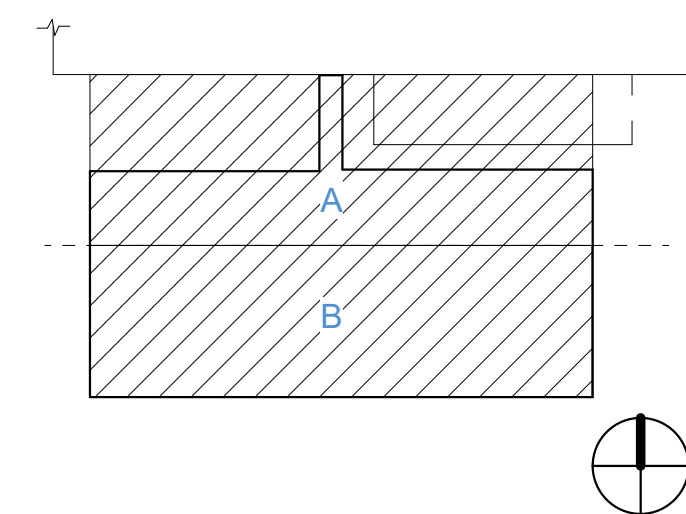
UG CD HP1.1

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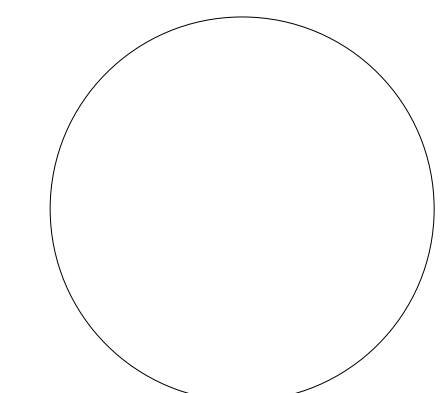


1 LEVEL 2 - PIPING REFERENCE PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



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PROJECT NO. 20230523 SCALE 1/8" = 1'-0"

DRAWING NAME

LEVEL 2 PIPING REFERENCE PLAN

FLOOR/SECTION PHASE DRAWING NO.

UG CD HP1.2

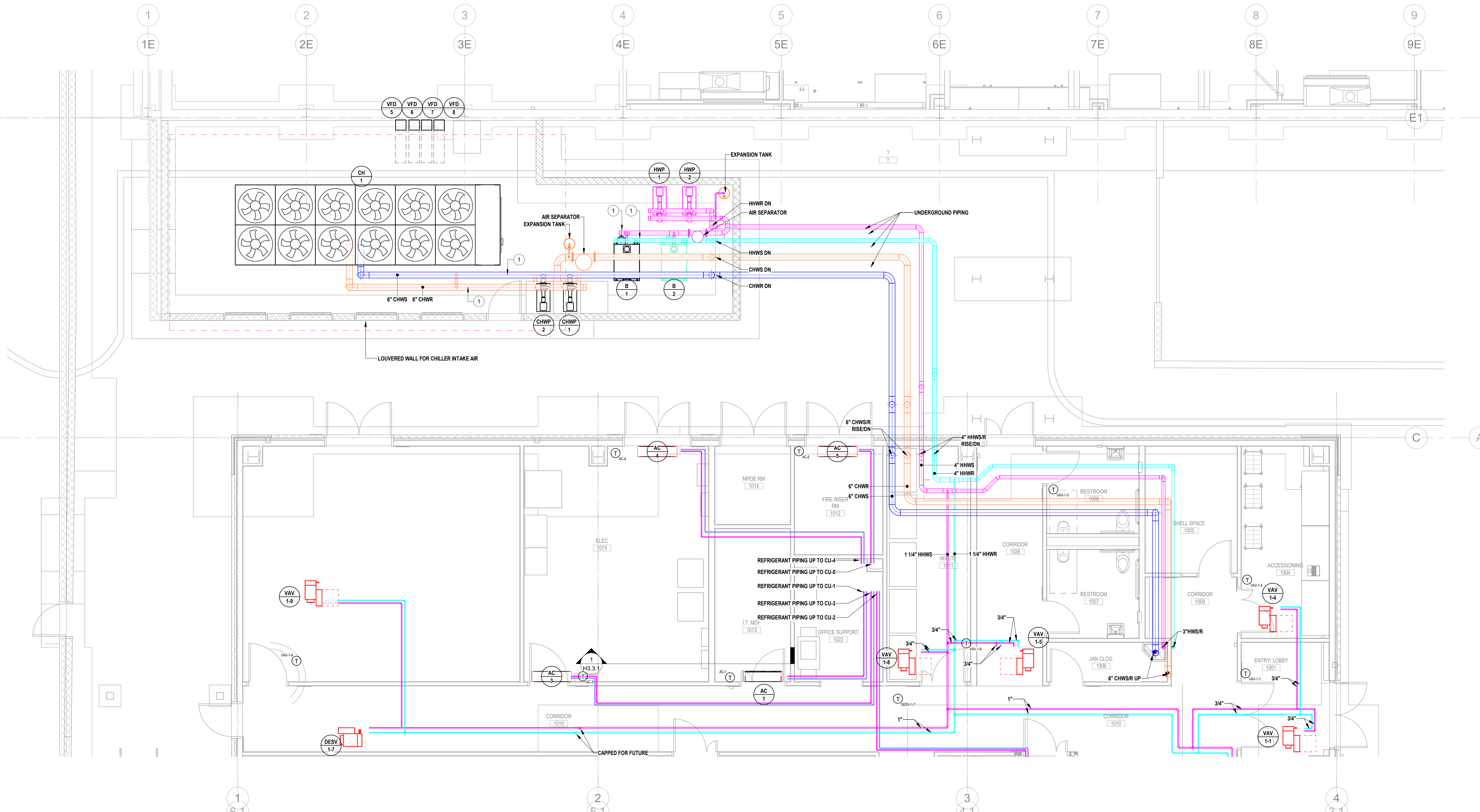
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GENERAL NOTES

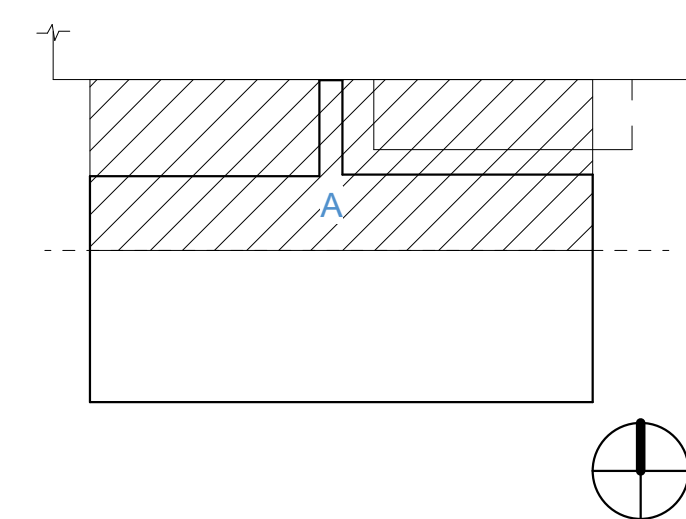
1. BURIED PIPING BETWEEN EQUIPMENT YARD AND 1011 WASTE SHALL BE PRE-INSULATED AT FACTORY BASIS OF DESIGN. ROVANDO.

KEY NOTES #

1. PROVIDE HEAT TRACING ON PIPING



KEY PLAN



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PROJECT NO. 20230523 SCALE 1/4" = 1'-0"

DRAWING NAME

FLOOR PLAN LEVEL 1 SECTOR A - PIPING

FLOOR/SECTION PHASE DRAWING NO.

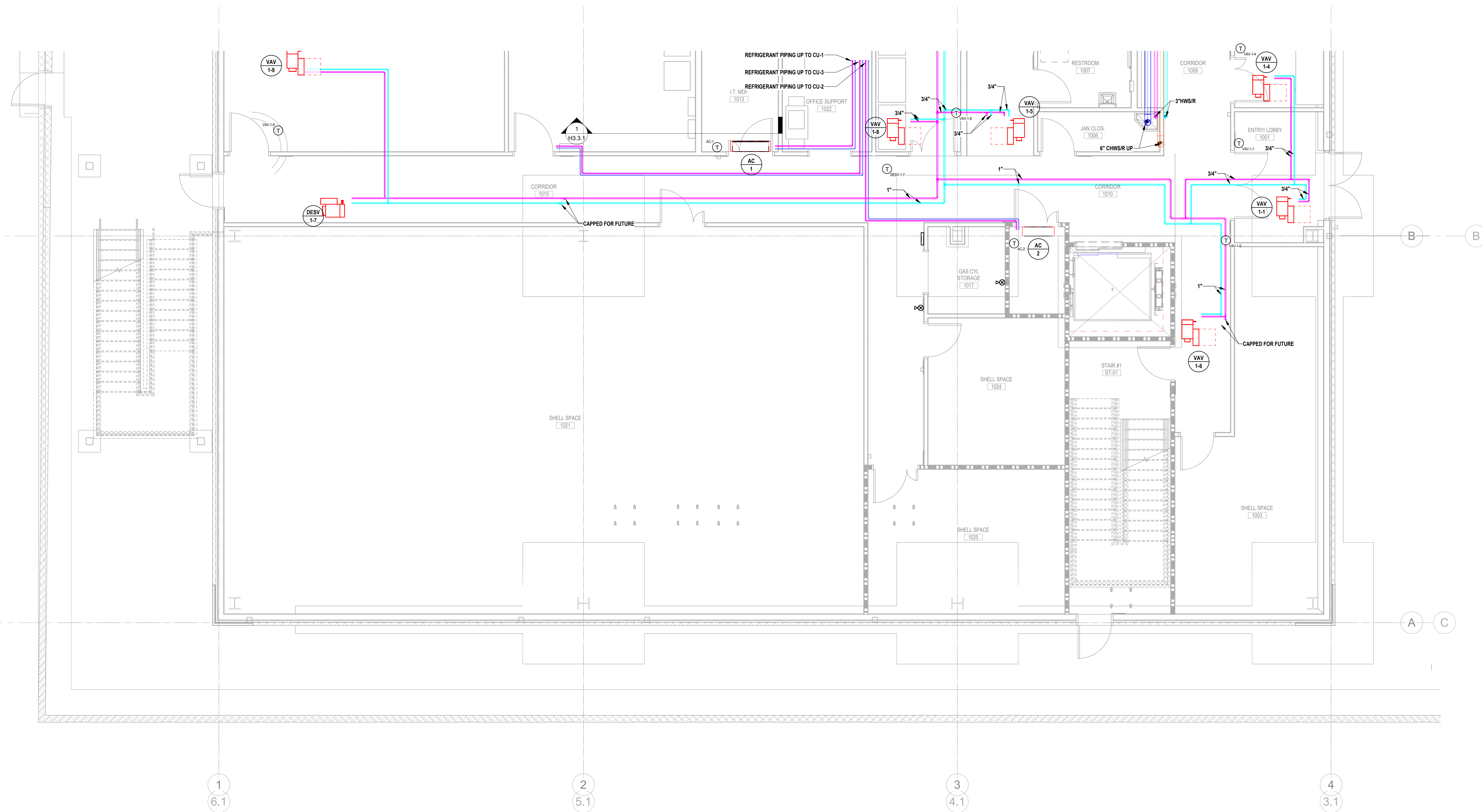
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1 LEVEL 1 - SECTOR A
SCALE: 1/4" = 1'-0"

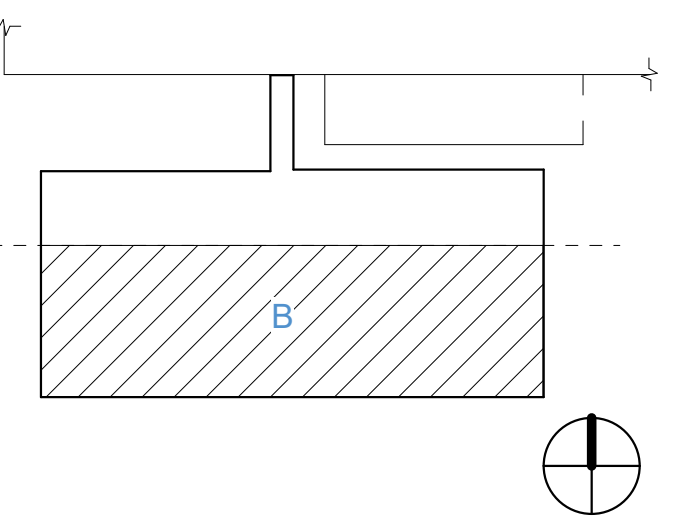
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GENERAL NOTES



KEY PLAN



PRINCIPAL
David Keith
RESEARCH PLANNER
Steph Vargas
PROJECT ENGINEER
Tony Castro
MECHANICAL MODEL LEAD
Tina Kawagishi

REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D		ISSUED FOR OWNER'S REVIEW	10.11.2024
C		DESIGN DEVELOPMENT	09.26.2024
B		50% D.D SET	05.24.2024
A			05.10.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY TK DATE 11.08.2024

PROJECT NO. 20230523 SCALE 1/4" = 1'-0"

DRAWING NAME

FLOOR PLAN LEVEL 1 SECTOR B - PIPING

FLOOR/SECTION PHASE DRAWING NO.

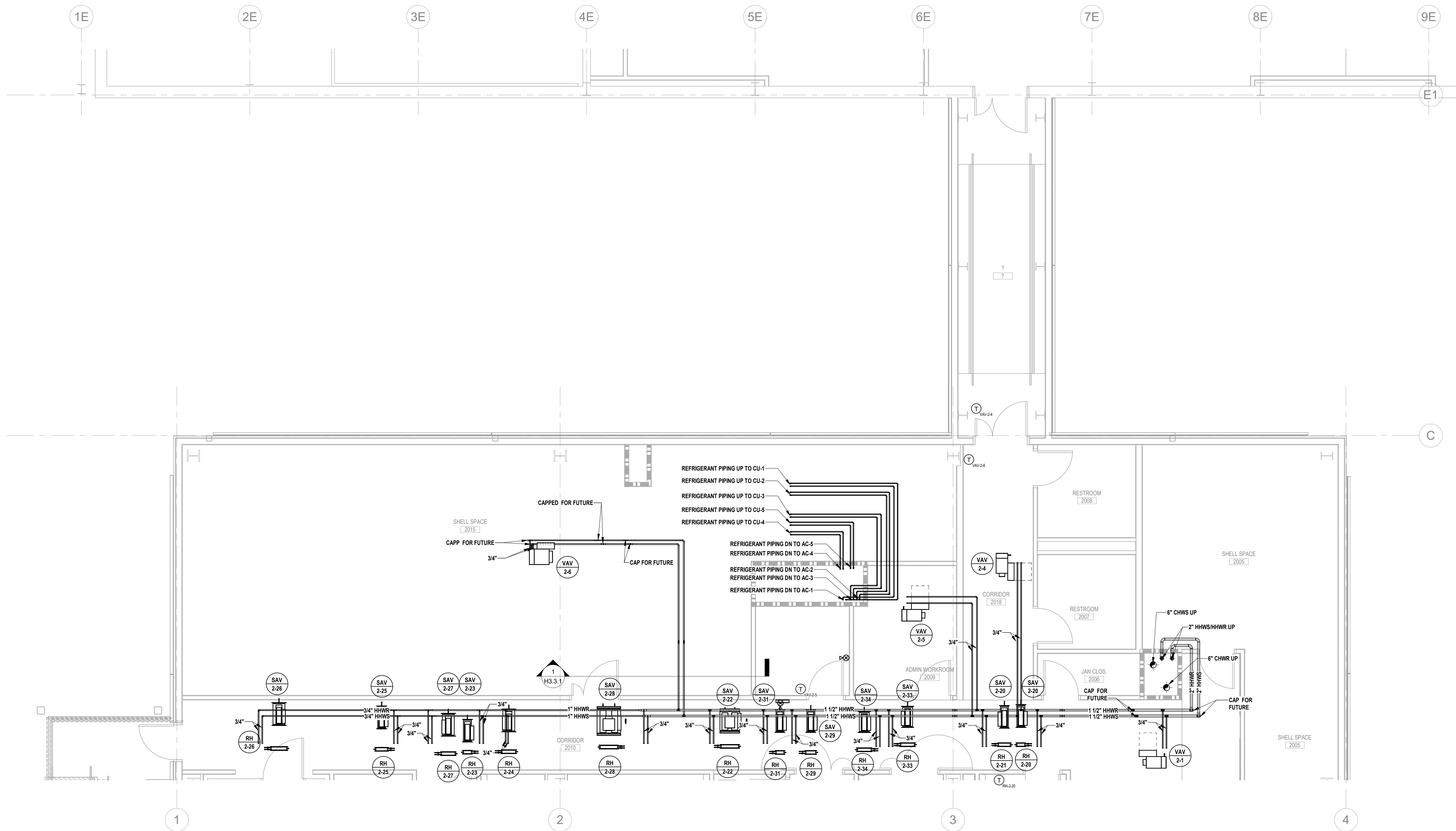
1 CD HP2.1.1B

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

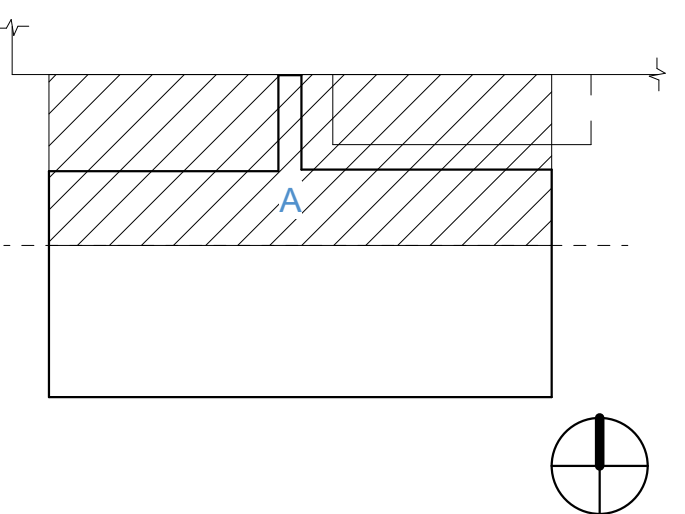
NOT FOR CONSTRUCTION

11/11/2024 6:53:56 AM Autodesk Docs://20230523 - South Nevada Health District M.L.K. BLDG - 3 LAB/20230523_M02_CENTRAL.V4

GENERAL NOTES



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PROJECT NO. 20230523 SCALE 1/4" = 1'-0"

DRAWING NAME

FLOOR PLAN LEVEL 2 SECTOR A - PIPING

FLOOR/SECTION PHASE DRAWING NO.

2 CD HP2.2.1A

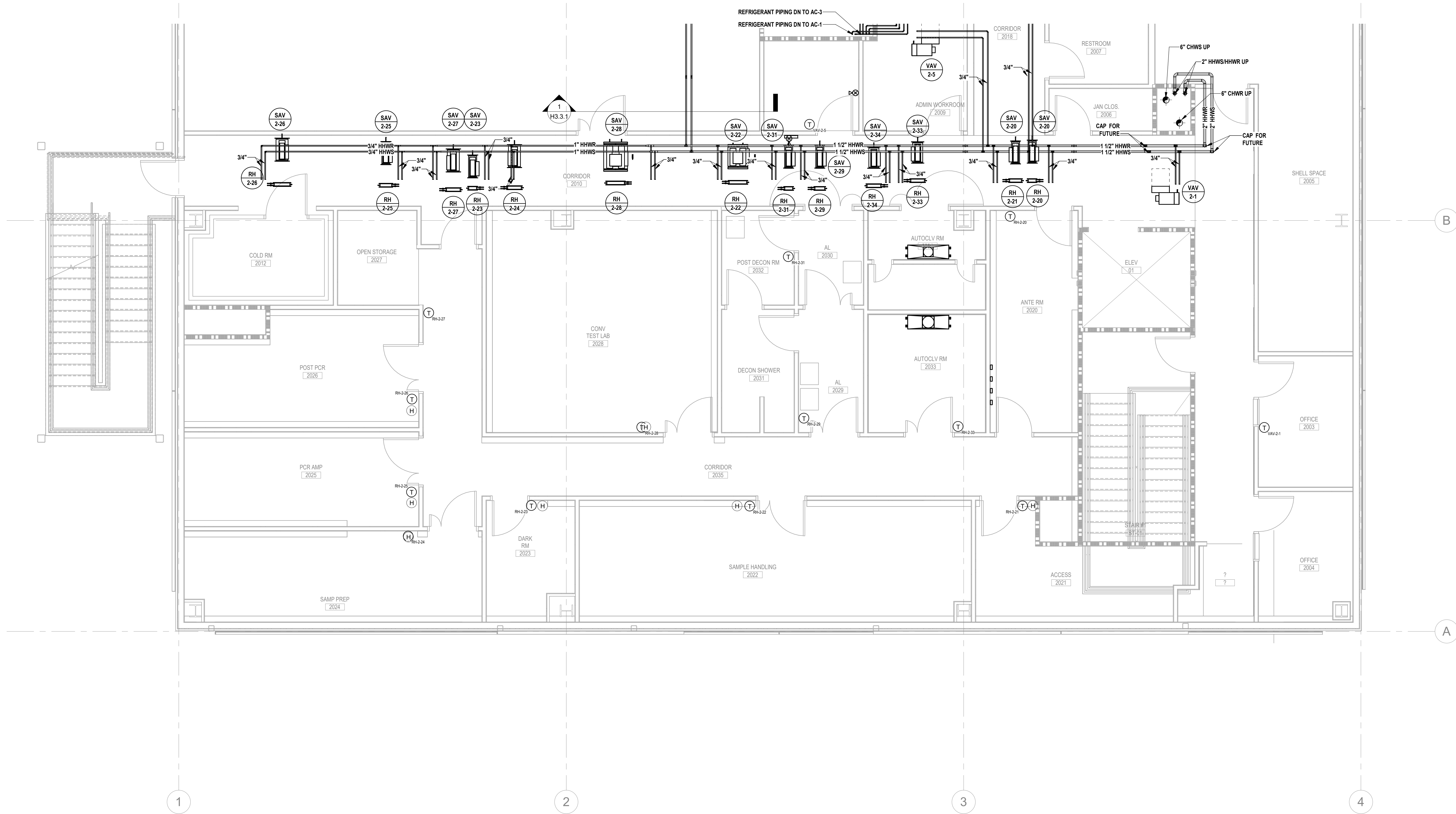
1 LEVEL 2 - SECTOR A
SCALE: 1/4" = 1'-0"

NOT FOR CONSTRUCTION

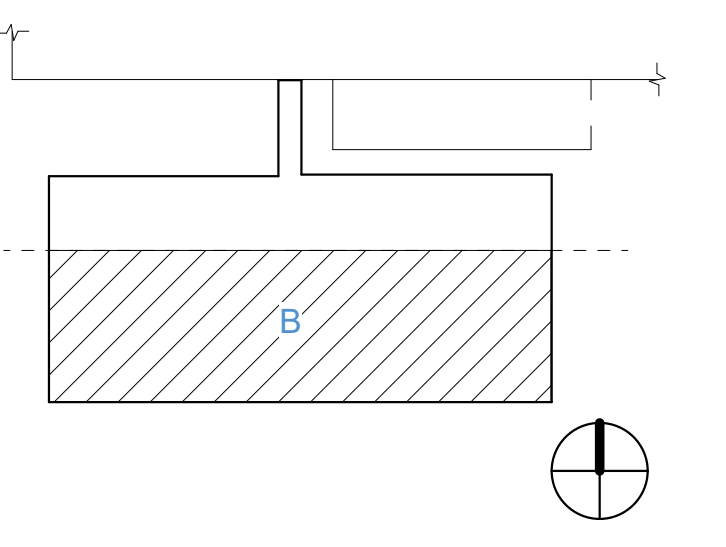
11/11/2024 6:54:09 AM Autodesk Docs://20230523 - South Nevada Health District M.L.K. BLDG - 3 LAB/20230523_M22_CENTRAL.rvt

GENERAL NOTES

1. BAS TO TAKE AN AVERAGE OF THE HUMIDITY READINGS FOR CONTROLLING THE OPERATION OF THE HUMIDIFIER.



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DRAWING NAME

FLOOR PLAN LEVEL 2 SECTOR B - PIPING

FLOOR/SECTION PHASE DRAWING NO.

2 CD HP2.2.1B

1 LEVEL 2 - SECTOR B
SCALE: 1/4" = 1'-0"

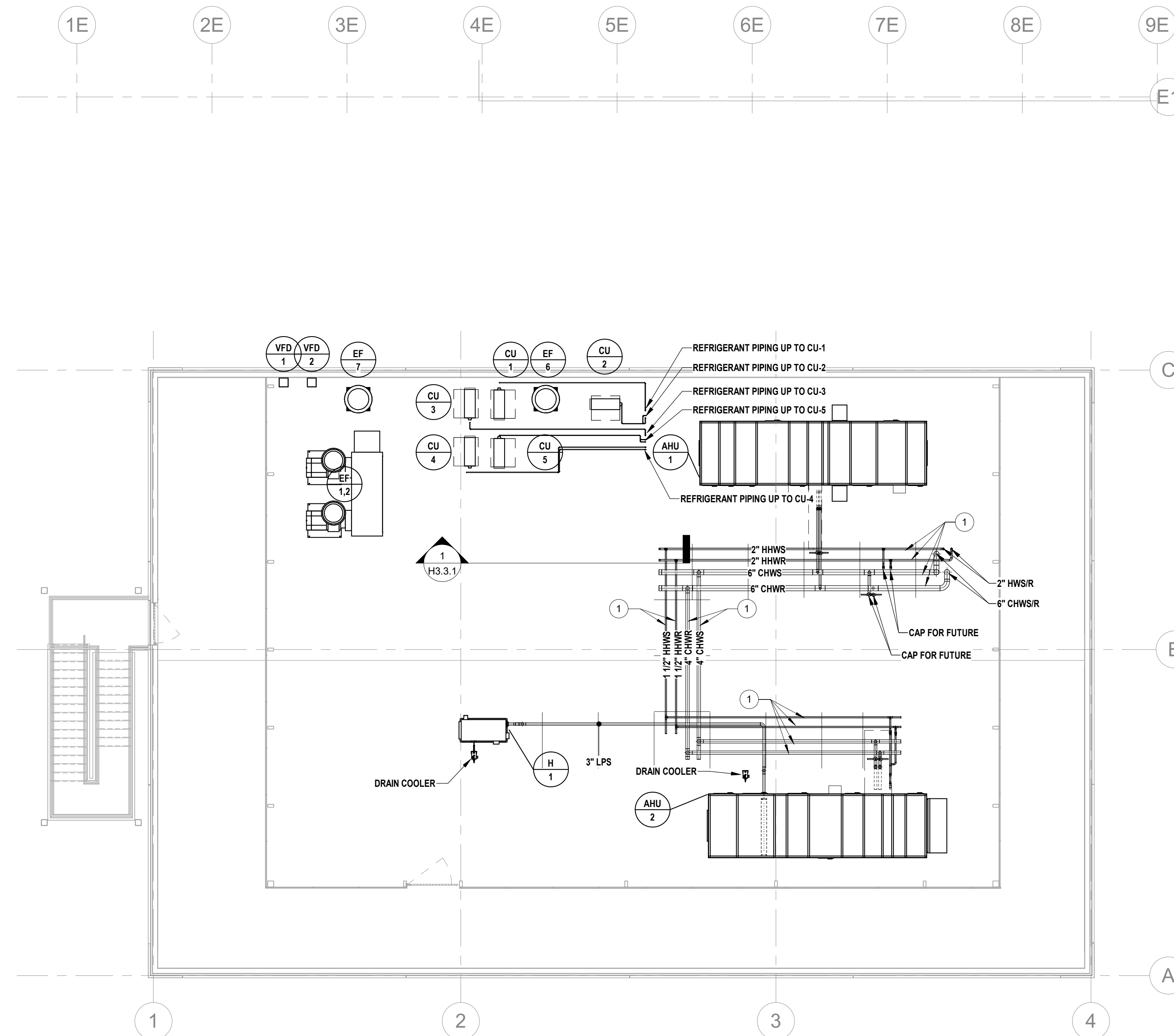
NOT FOR CONSTRUCTION

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GENERAL NOTES

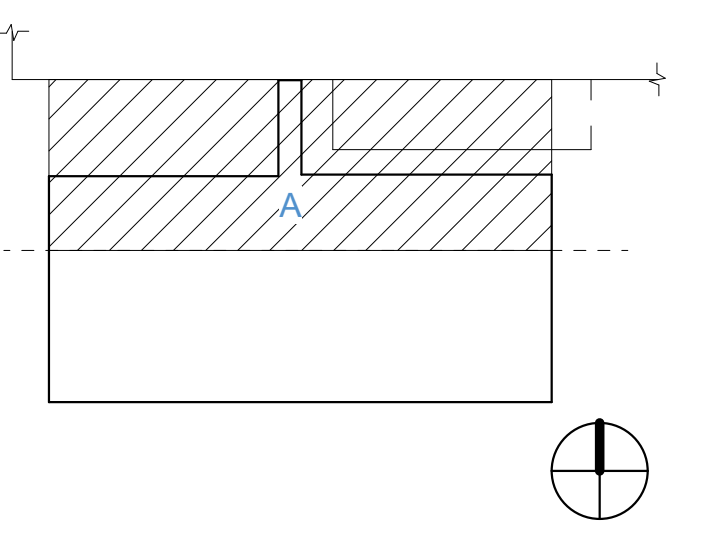
KEY NOTES

1 PROVIDE HEAT TRACING ON PIPING



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

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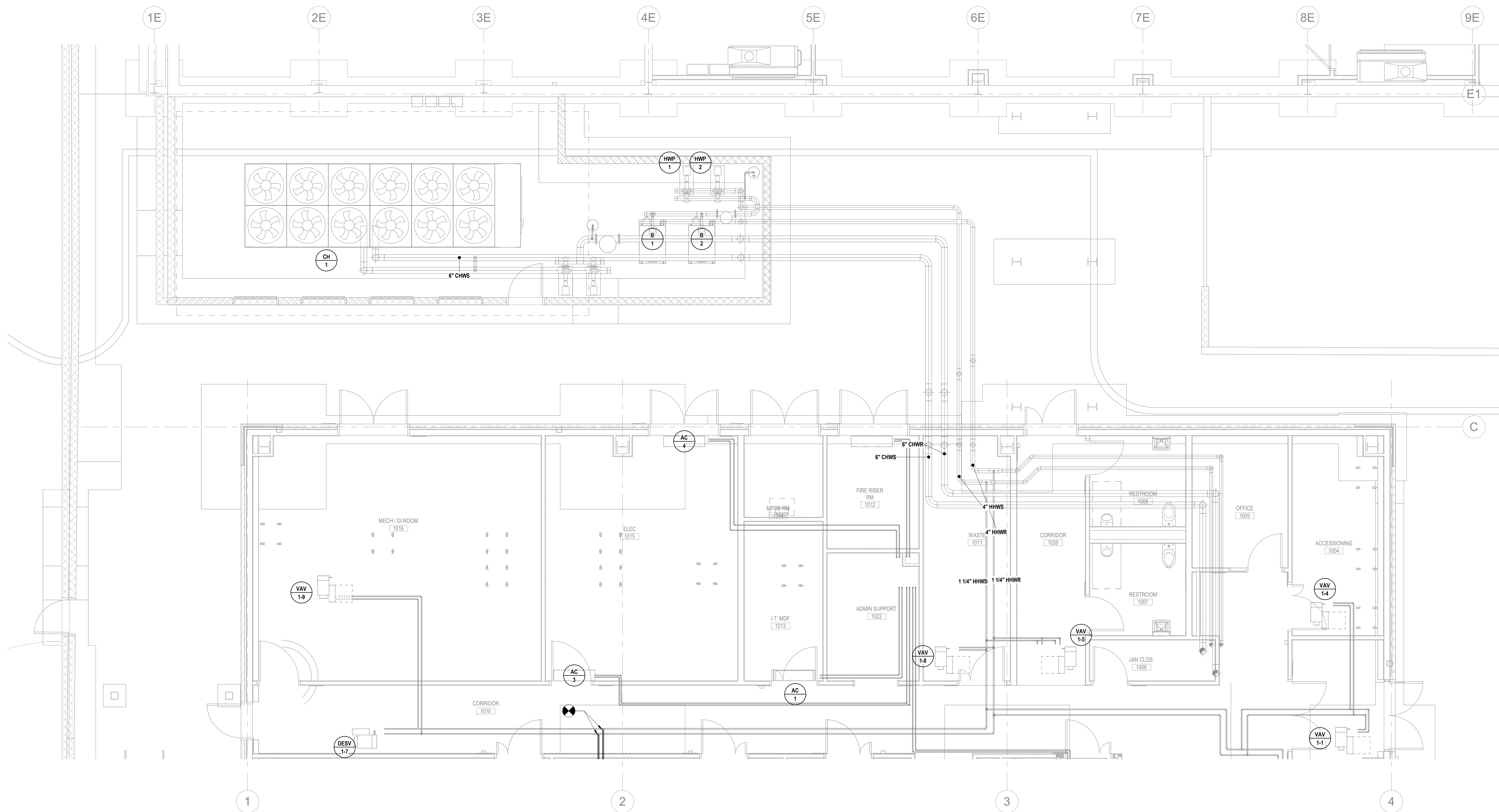
DRAWING NAME
ROOF PLAN - PIPING

FLOOR/SECTION PHASE DRAWING NO.
RF CD HP2.3.1A

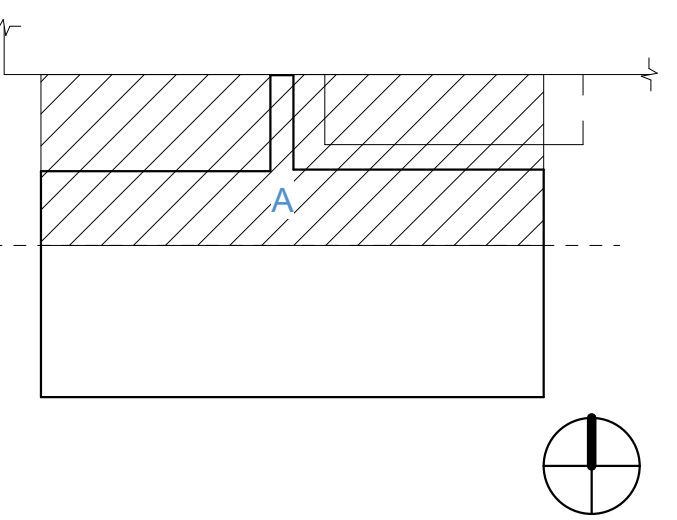
NOT FOR CONSTRUCTION

GENERAL NOTES

- BURIED PIPING BETWEEN EQUIPMENT YARD AND 1011 WASTE SHALL BE PRE-INSULATED AT FACTORY BASIS OF DESIGN. ROVANDO.



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DRAWING NAME

FLOOR PLAN LEVEL 1 SECTOR A - PIPING PHASE 2

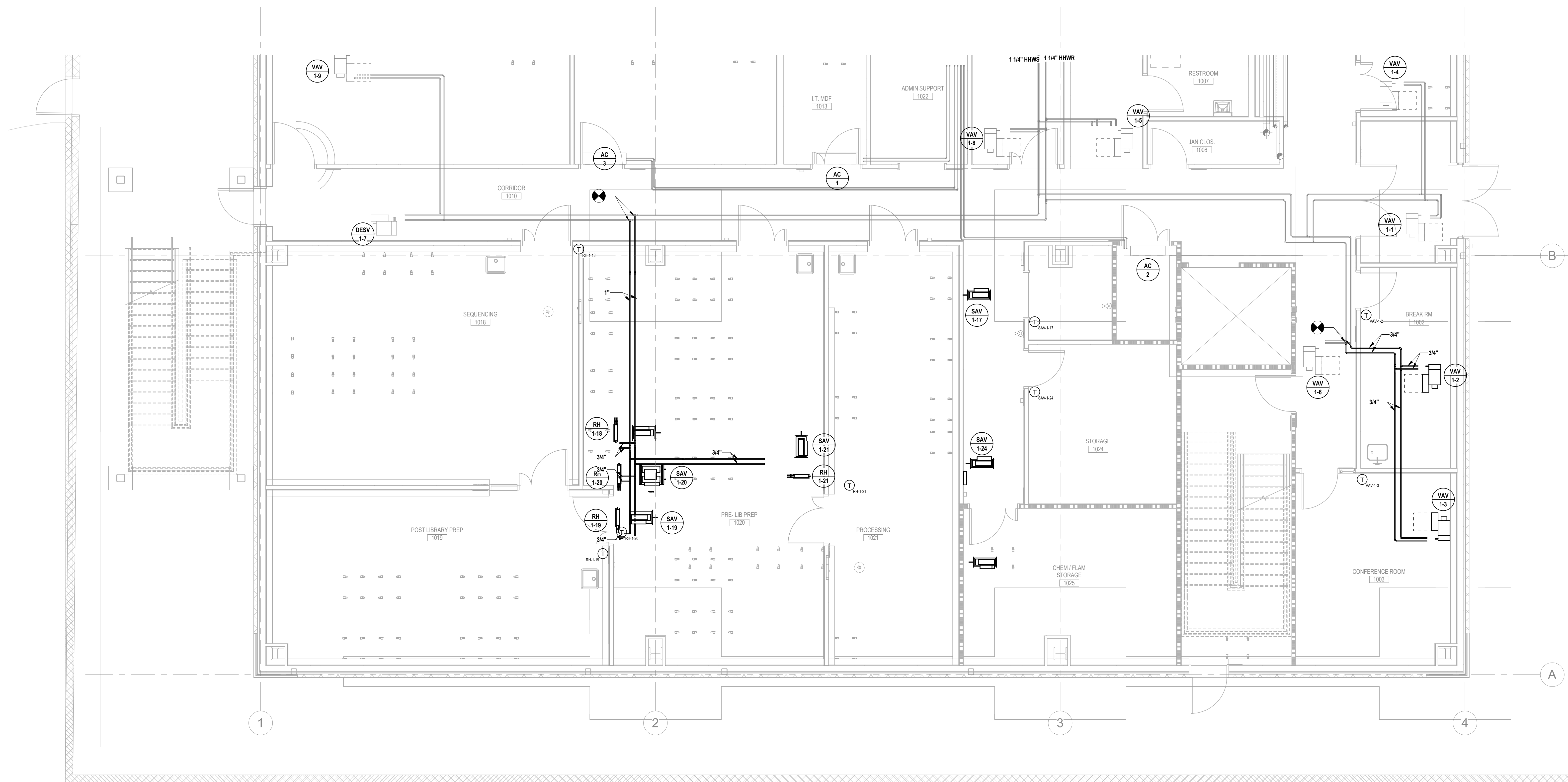
FLOOR/SECTION PHASE DRAWING NO.

1 CD HP2.1.1A.2

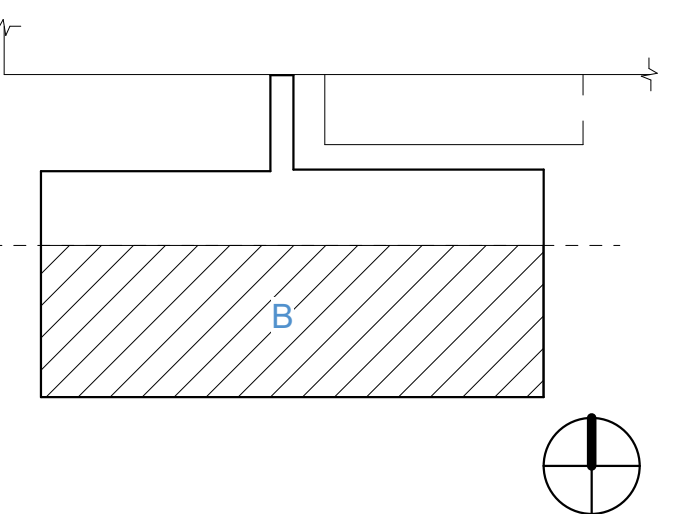
1 LEVEL 1 - SECTOR A
SCALE: 1/4" = 1'-0"

NOT FOR CONSTRUCTION

GENERAL NOTES



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DRAWING NAME

FLOOR PLAN LEVEL 1 SECTOR B - PIPING PHASE 2

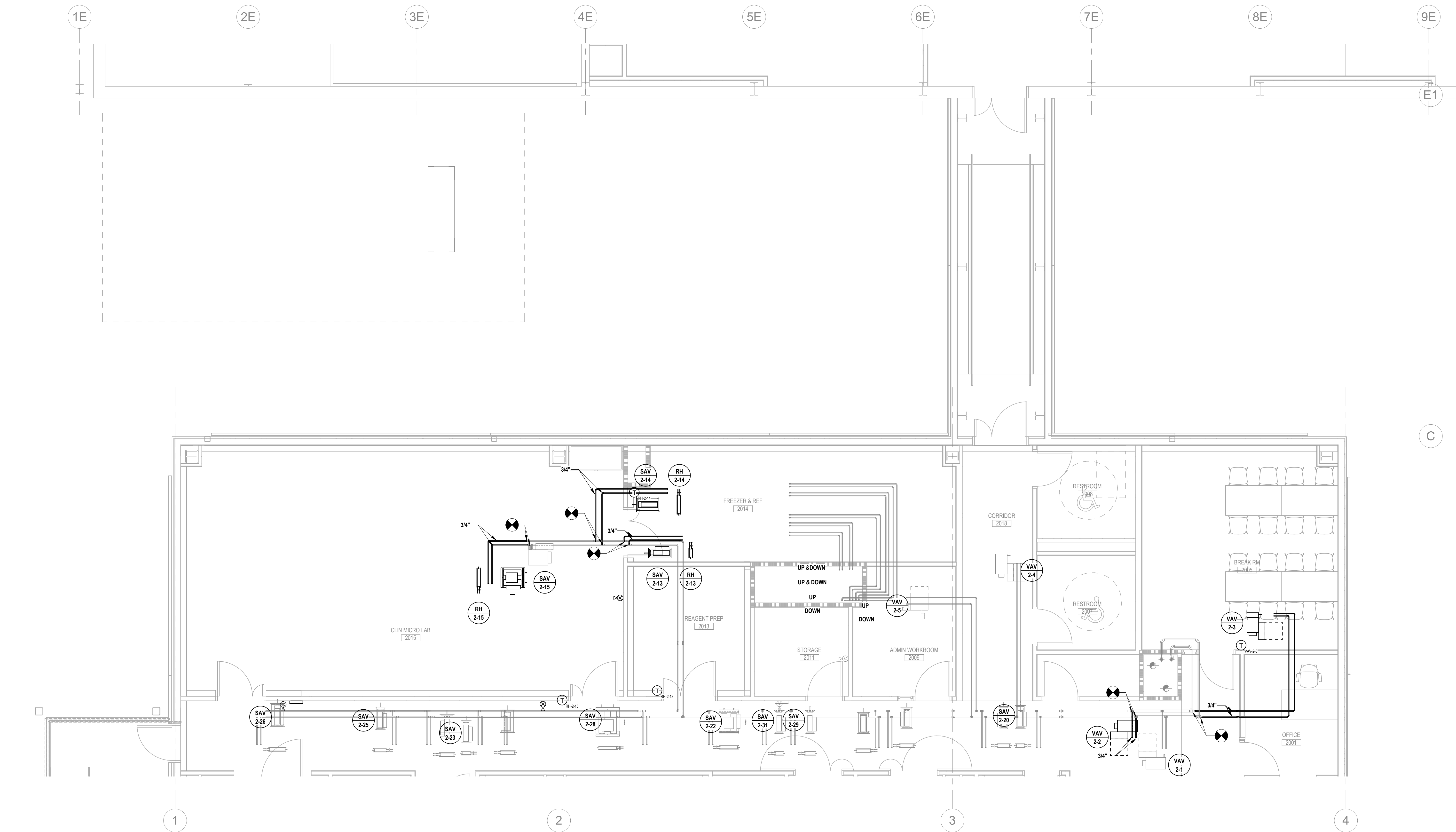
FLOOR/SECTION PHASE DRAWING NO.

1 CD HP2.1.1B.2

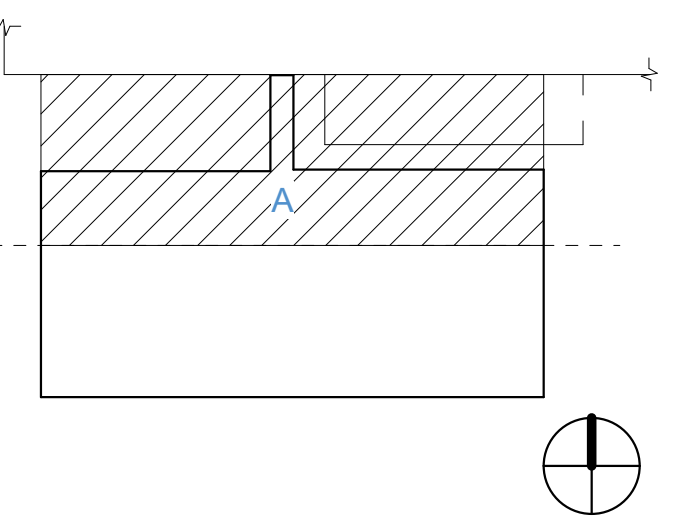
1 LEVEL 1 - SECTOR B
SCALE: 1/4" = 1'-0"

NOT FOR CONSTRUCTION

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FLOOR PLAN LEVEL 2 SECTOR A - PIPING PHASE 2

FLOOR/SECTION PHASE DRAWING NO.

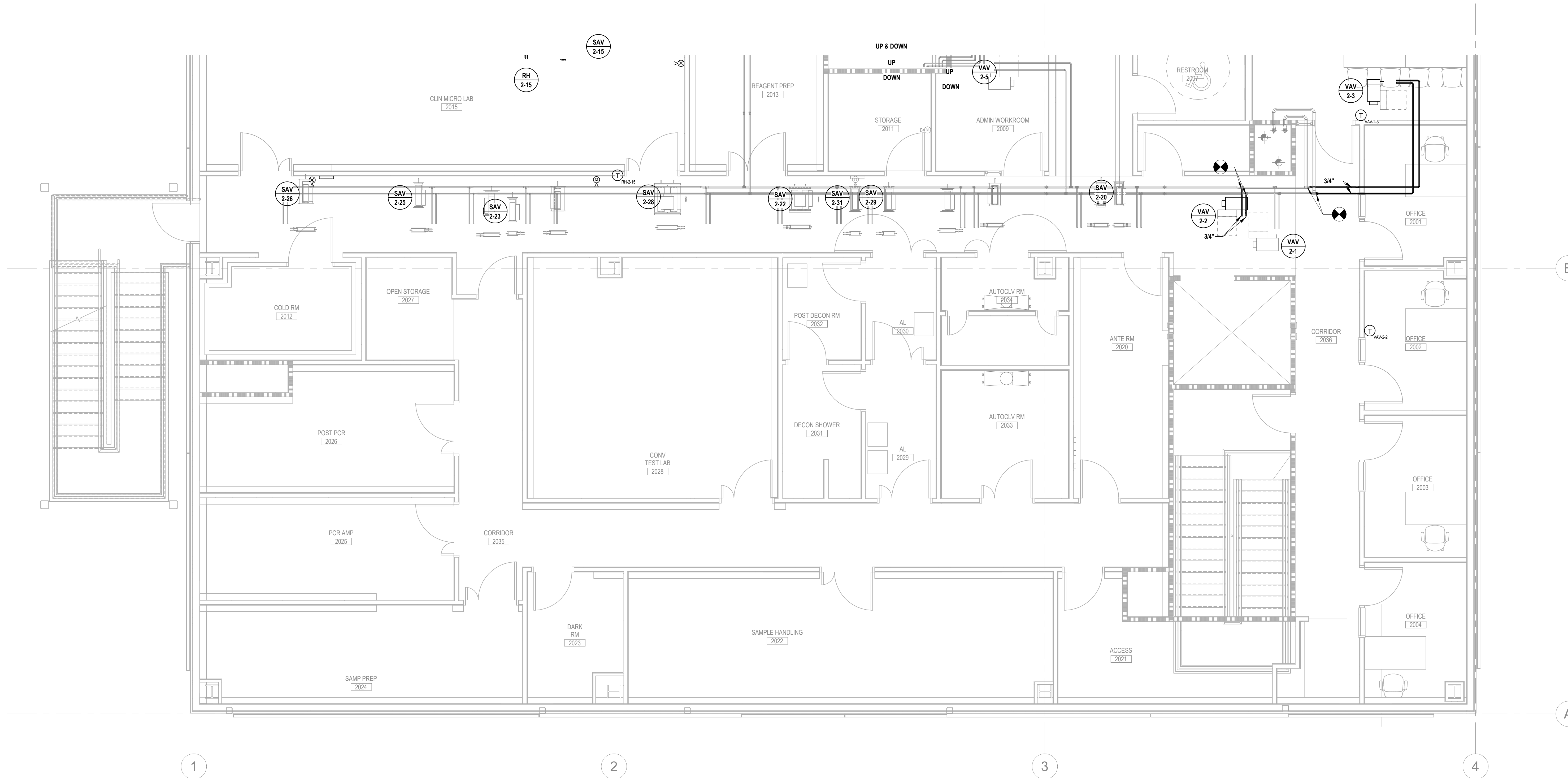
2 CD HP2.2.1A.2

1 LEVEL 2 - SECTOR A
SCALE: 1/4" = 1'-0"

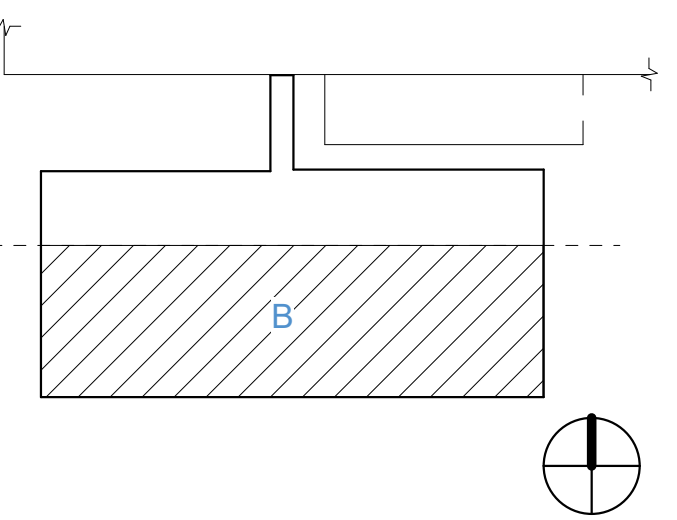
NOT FOR CONSTRUCTION

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GENERAL NOTES



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PROJECT NO. 20230523 SCALE 1/4" = 1'-0"

DRAWING NAME

FLOOR PLAN LEVEL 2 SECTOR B - PIPING PHASE 2

FLOOR/SECTION PHASE DRAWING NO.

2 CD HP2.2.1B.2

1 LEVEL 2 - SECTOR B
SCALE: 1/4" = 1'-0"

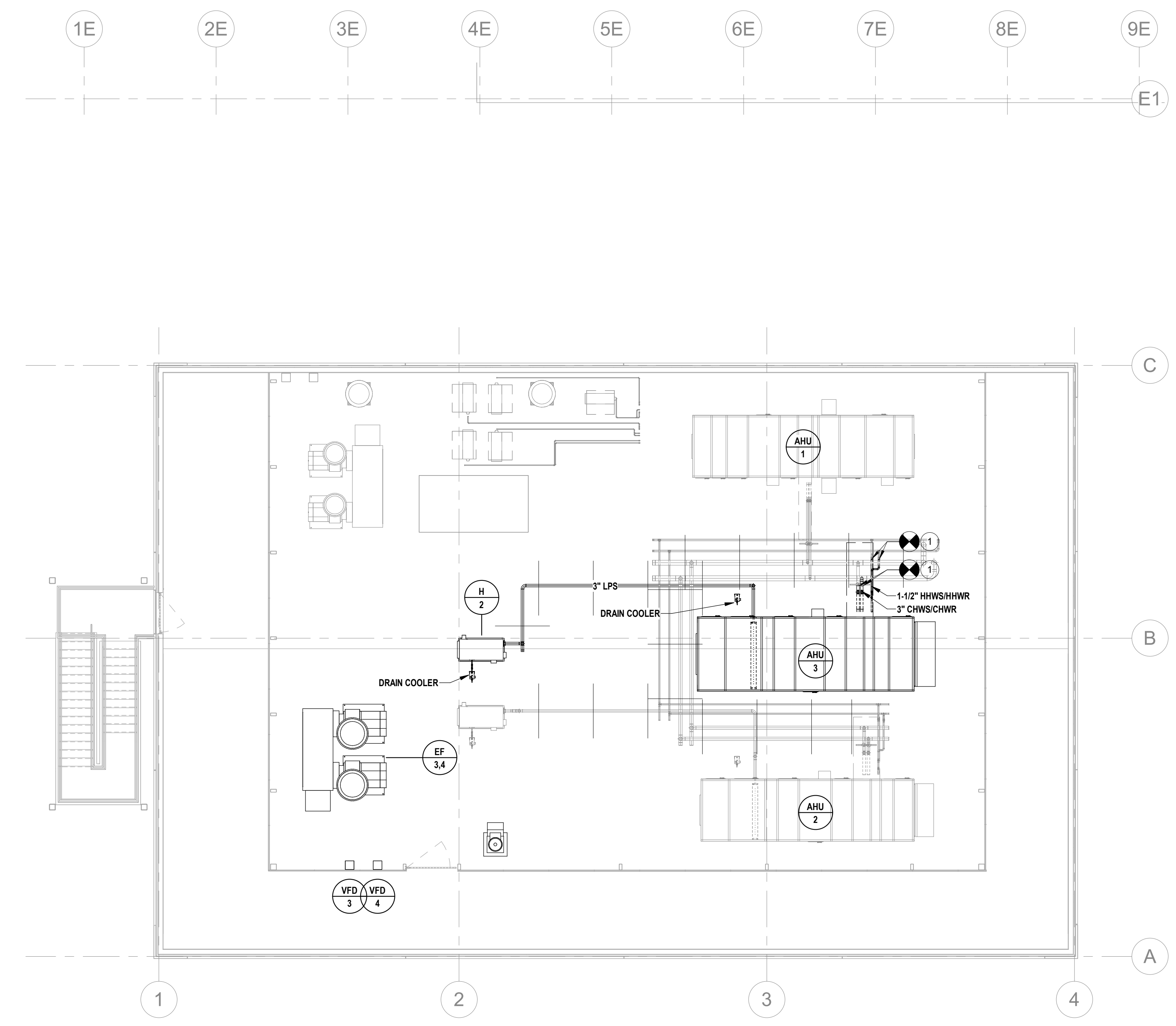
NOT FOR CONSTRUCTION

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GENERAL NOTES

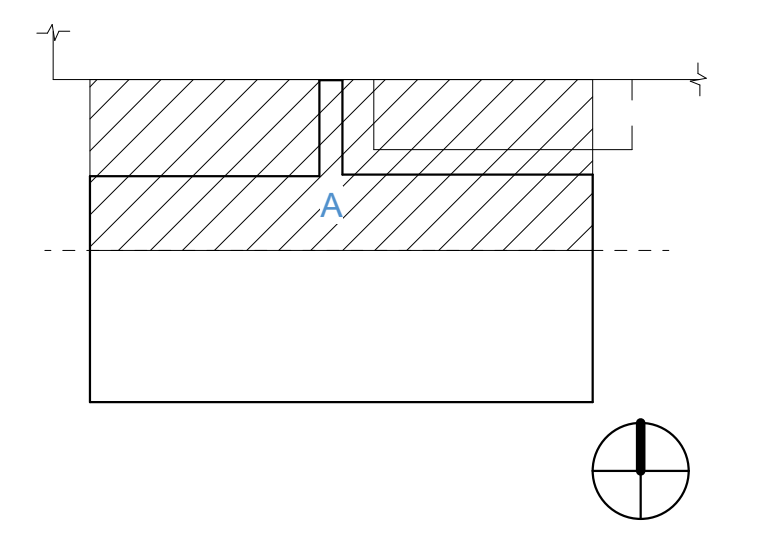
KEY NOTES #

1. PROVIDE HEAT TRACING ON PIPING



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

KEY PLAN



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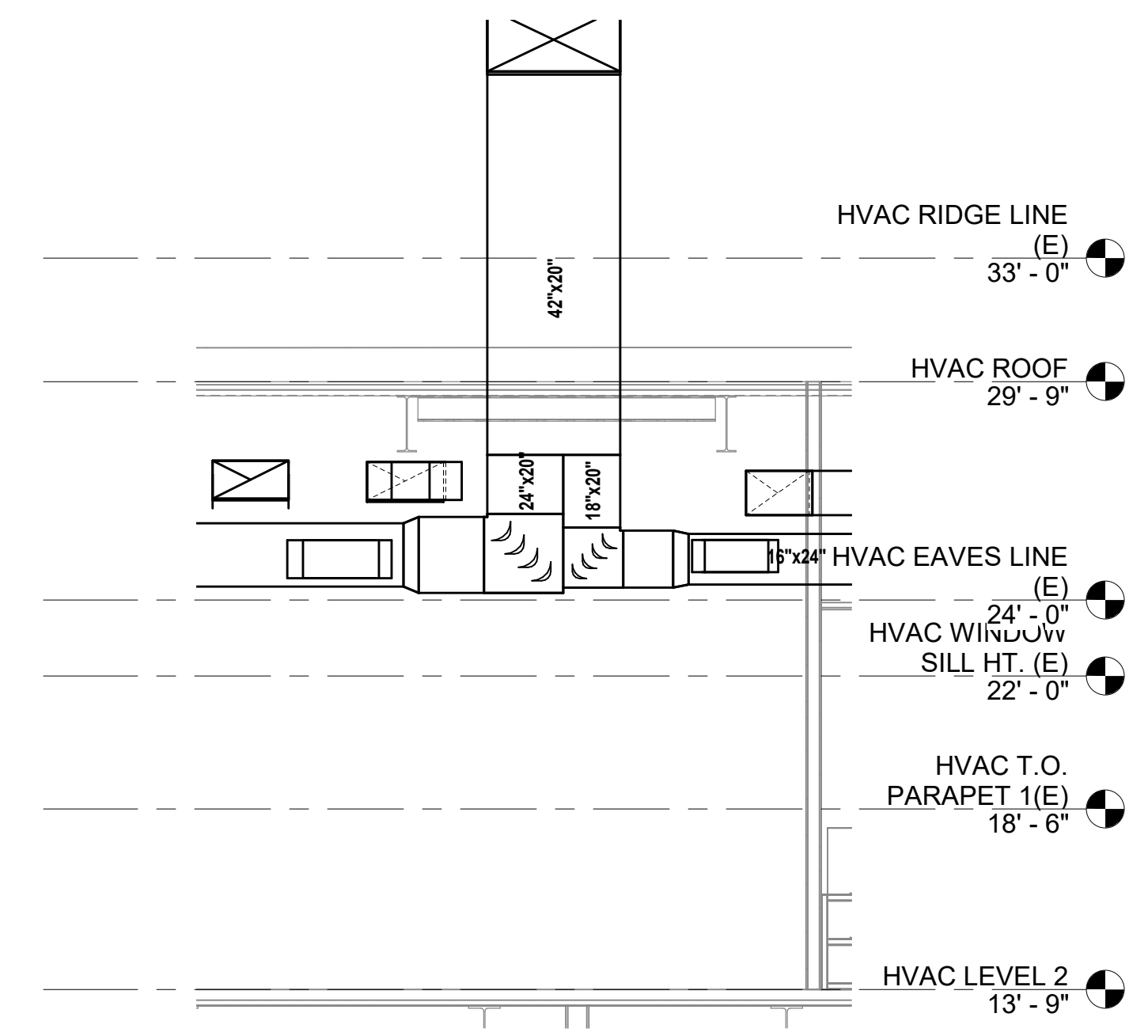
DRAWING NAME

ROOF PLAN - PIPING - PHASE 2

FLOOR/SECTION PHASE DRAWING NO.

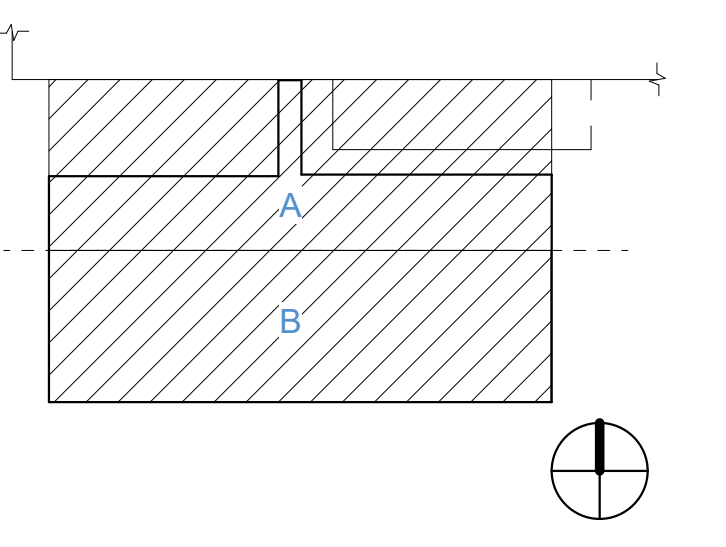
RF CD HP2.3.1A.2

NOT FOR CONSTRUCTION

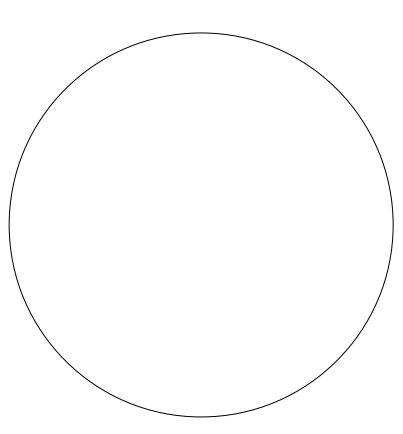


1 AHU-2 DUCT RISER
SCALE: 3/8" = 1'-0"

KEY PLAN



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PROJECT NO. 20230523 SCALE 1/4" = 1'-0"

DRAWING NAME _____

BUILDING SECTIONS _____

FLOOR/SECTION PHASE _____ DRAWING NO. _____

NOT FOR CONSTRUCTION

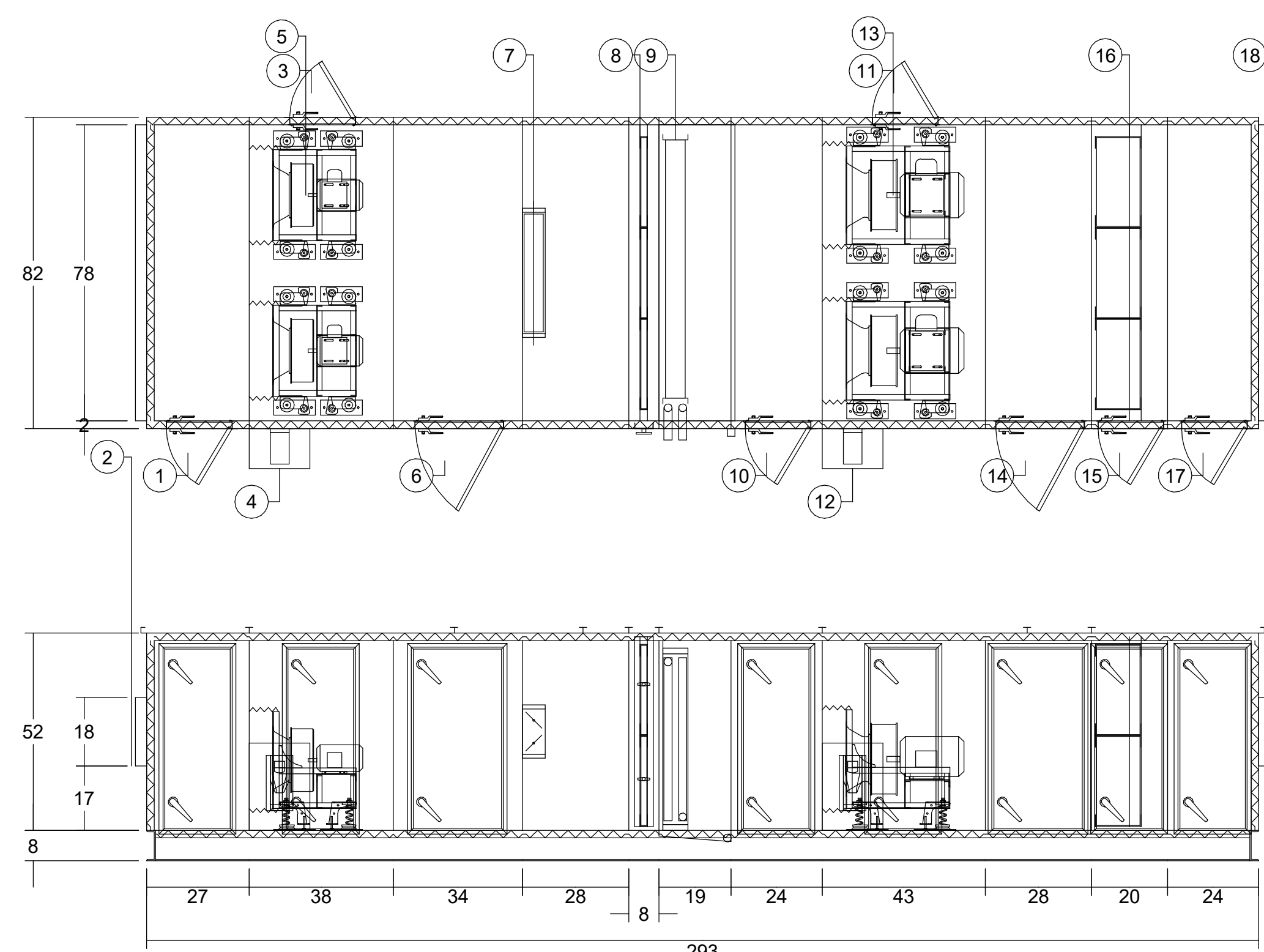
CD H3.3.1

AIR HANDLING UNIT SCHEDULE (SEE HPE SCHEDULE)

SYMBOL	TYPE (SEE NOTE 1)	SERVICE	LOCATION	TOTAL CFM	MIN OA CFM	% OA	SUPPLY FAN DATA			RETURN FAN DATA			PRE-HEAT COIL						COOLING COIL						FILTERS (SEE NOTE 2)			ELEC	WEIGHT LBS	REMARKS	BASIS OF DESIGN								
							ESP IN. WG.	QTY	MOTOR HP	ESP IN. WG.	QTY	MOTOR HP	EAT °F DB	LAT °F DB	MBH	MAX. FACE VEL./ FPM	APD/ IN. WG.	WATER (SEE NOTE 4) GPM	PDFT. WG.	MIN. ROWS	MAX. FINS/IN.	EAT °F DB	LAT °F DB	MBH	MAX. FACE VEL./ FPM	APD/ IN. WG.	WATER (SEE NOTE 5) GPM					PDFT. WG.	MIN. ROWS	MAX. FINS/IN.	LOC	APD/IN WG	MERV RATING	V / Ph / Hz	
AHU-1	VAV	OFFICE SPACES	ROOFTOP	6,300	4,425	70%	2.50	2	7.5	1.875	1	2	1.0	-	-	-	-	-	105.1	72.0	53.7	53.4	407	366	500	0.21	53.0	8.6	4	13	P 0.1 1 8 F 0.13 1.5 14	460 / 3 / 60	8,519	1-8	ALLIANCE				
AHU-2	VAV	BSL-3 LABS	ROOFTOP	7,200	7,200	100%	4.00	4	5	-	-	-	-	32.0	67.0	273	500	0.01	13.4	1.6	1	4	120.0	80.5	56.2	55.9	650	502	450	0.61	83.9	11.7	5	14	P 0.1 1 8 F 0.26 1.5 14	460 / 3 / 60	10,559	1-8	ALLIANCE
(FUTURE) AHU-3	VAV	BSL-2 LABS	ROOFTOP	6,500	6,500	100%	4.00	2	10	-	-	-	-	32.0	72.3	284	500	0.03	13.8	1.80	1	6	120.0	80.5	51.6	51.6	662	466	450	0.34	85.9	11.5	6	12	P 0.1 1 8 F 0.26 2 14	460 / 3 / 60	8,645	1-8	ALLIANCE

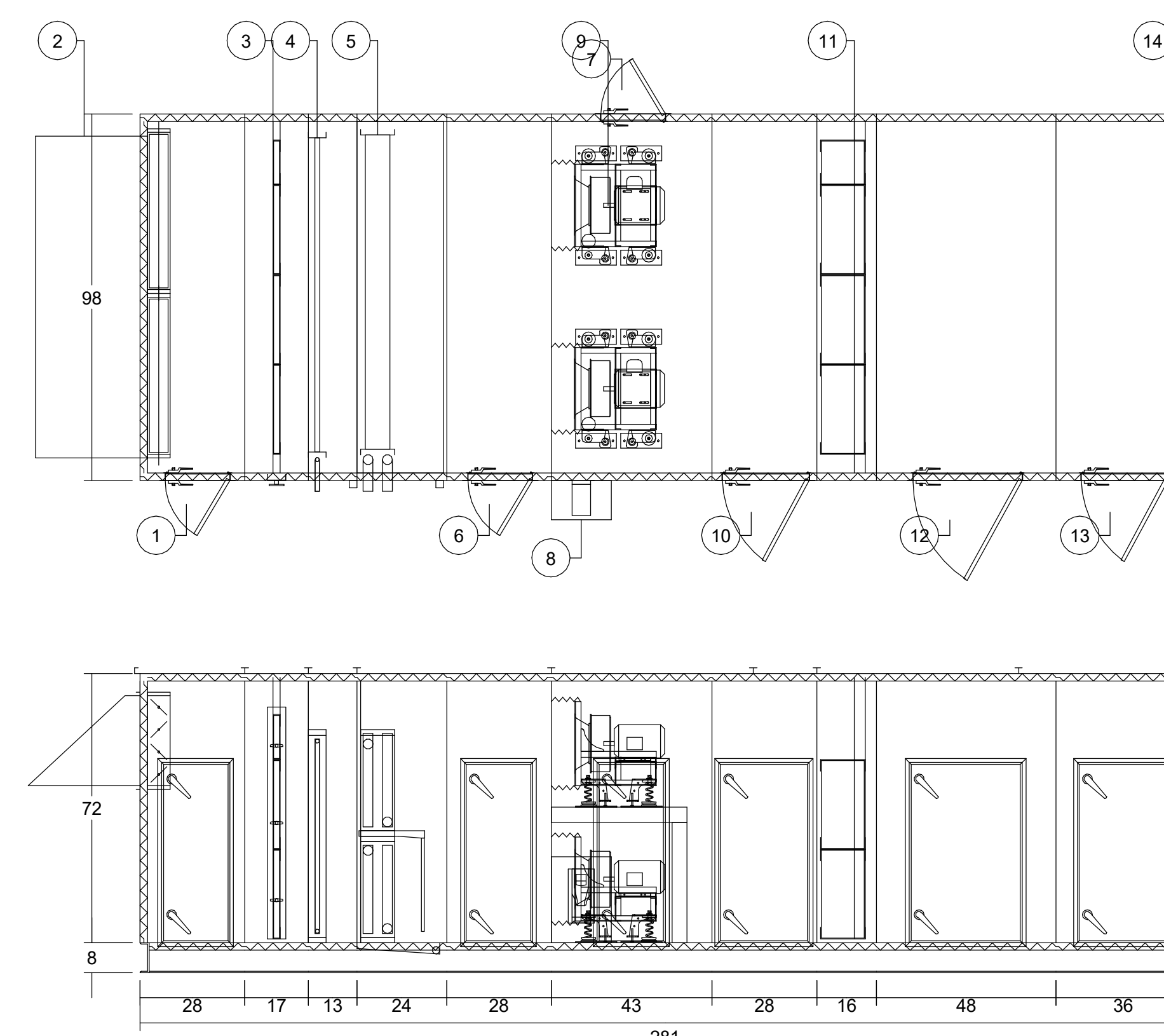
NOTES:
1. VAV = VARIABLE AIR VOLUME (W/ VFD) CV = CONSTANT VOLUME (W/ VFD)
2. LOC - P = PREFILTER LOCATION F = FINAL FILTER LOCATION
3. AIR HANDLER MANUFACTURER TO INSTALL HUMIDIFIER DISPERSION TUBE ASSEMBLY AT FACTORY (AHU-2 & AHU-3(FUTURE))
4. ENTERING HOT WATER TEMPERATURE OF 180°F, LEAVING 140°F.
5. ENTERING CHILLED WATER TEMPERATURE OF 42°F, LEAVING 58°F.
6. FACTORY PROVIDED MICROPROCESSOR CONTROLS WITH BACKUP INTERFACE.
7. PROVIDE FACTORY SUPPLY FAN AND RETURN FAN WITH VARIABLE FREQUENCY DRIVE WITH SHAFT GROUNDING RINGS.
8. PROVIDE HINGED ACCESS DOORS.

- 1 18Wx48H ACCESS DOOR W/ WINDOW
- 2 78Wx18H PLAIN OPENING
- 3 18Wx48H ACCESS DOOR W/ WINDOW
- 4 16W X 23H VFD ENC.
- 5 FAN & MOTOR ASSY.
- 6 24Wx48H ACCESS DOOR W/ WINDOW
- 7 (1) 32WX12H DAMPER
- 8 2 IN. PREFILTER BANK
- 9 (1) 68WX45H COOLING COIL(S)
- 10 18Wx48H ACCESS DOOR W/ WINDOW
- 11 18Wx48H ACCESS DOOR W/ WINDOW
- 12 16W X 23H VFD ENC.
- 13 FAN & MOTOR ASSY.
- 14 24WX48H ACCESS DOOR W/ WINDOW
- 15 18WX48H ACCESS DOOR W/ WINDOW
- 16 0 IN. PREFILTER W/ 12 IN. FINAL FILTERS
- 17 18WX48H ACCESS DOOR W/ WINDOW
- 18 78Wx18H PLAIN OPENING



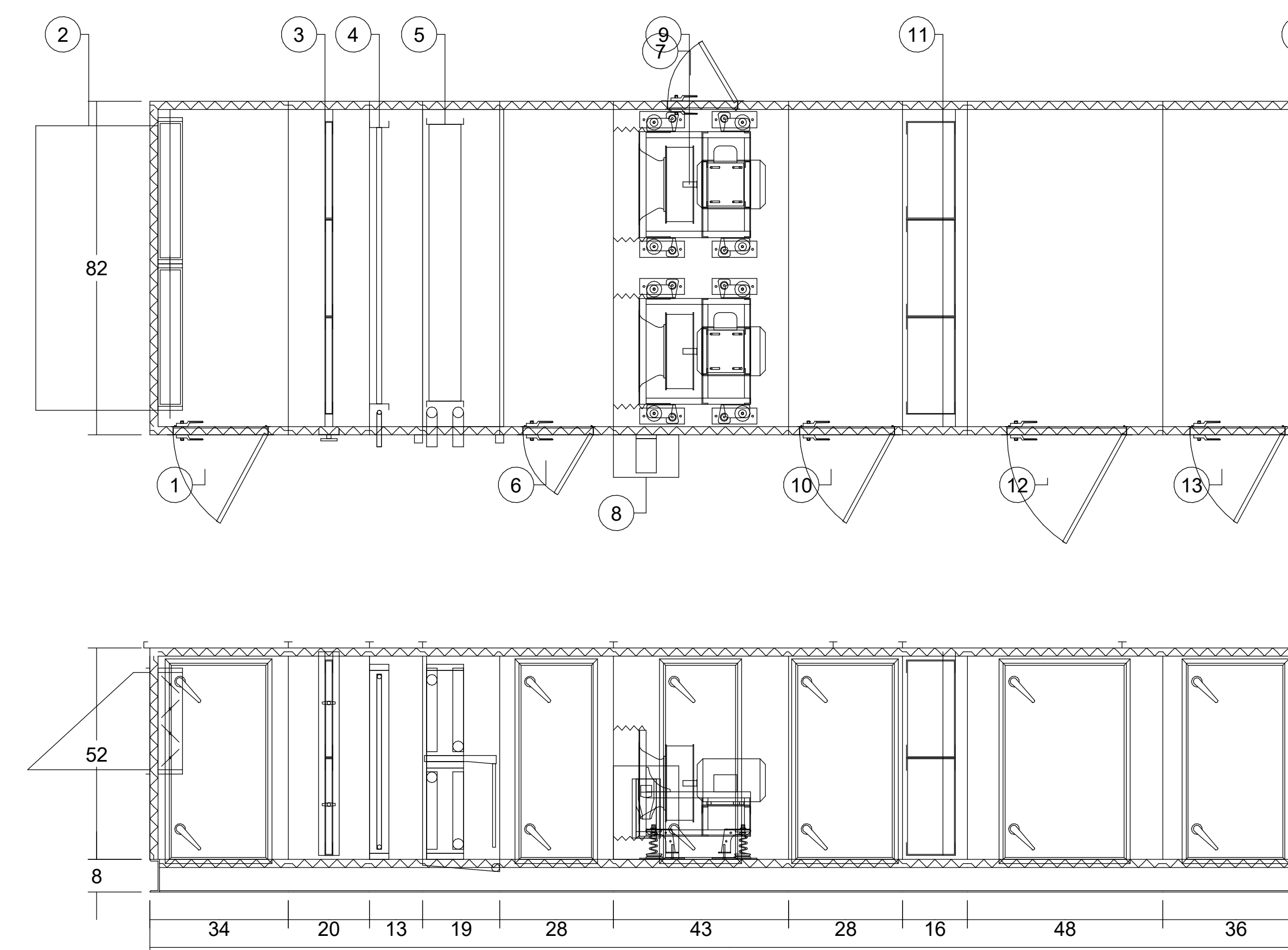
AHU-1

- 1 24Wx48H ACCESS DOOR W/ WINDOW
- 2 (2) 32WX24H DAMPER W/ RAINHOOD
- 3 2 IN. PREFILTER BANK
- 4 (1) 68W X 45H HEATING COIL(S)
- 5 (2) 68W X 21H COOLING COIL(S)
- 6 18Wx48H ACCESS DOOR W/ WINDOW
- 7 18Wx48H ACCESS DOOR W/ WINDOW
- 8 16W X 23H VFD ENC.
- 9 FAN & MOTOR ASSY.
- 10 24Wx48H ACCESS DOOR W/ WINDOW
- 11 0 IN. PREFILTER W/ 12 IN. FINAL FILTERS
- 12 30WX48H ACCESS DOOR W/ WINDOW
- 13 24WX48H ACCESS DOOR W/ WINDOW
- 14 78WX12H PLAIN OPENING



AHU-2

- 1 24Wx48H ACCESS DOOR W/ WINDOW
- 2 (2) 34WX24H DAMPER W/ RAINHOOD
- 3 2 IN. PREFILTER BANK
- 4 (1) 68WX 45H HEATING COIL(S)
- 5 (2) 68WX 21H COOLING COIL(S)
- 6 18Wx48H ACCESS DOOR W/ WINDOW
- 7 18Wx48H ACCESS DOOR W/ WINDOW
- 8 16W X 23H VFD ENC.
- 9 FAN & MOTOR ASSY.
- 10 24Wx48H ACCESS DOOR W/ WINDOW
- 11 0 IN. PREFILTER W/ 12 IN. FINAL FILTERS
- 12 30WX48H ACCESS DOOR W/ WINDOW
- 13 24WX48H ACCESS DOOR W/ WINDOW
- 14 78WX12H PLAIN OPENING



AHU-3 (FUTURE)

KEY PLAN

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PROJECT NO. 20230523 SCALE

DRAWING NAME

EQUIPMENT SCHEDULE - 1

FLOOR/SECTION PHASE DRAWING NO.

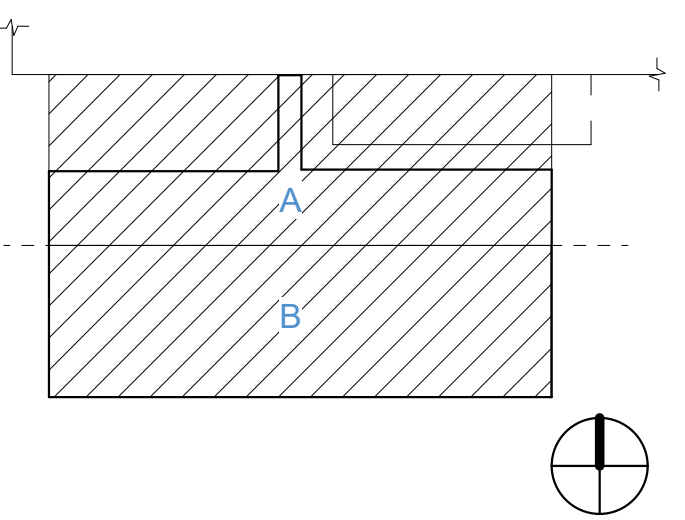
CD H4.1.1

NOT FOR CONSTRUCTION

LEGEND:
 CFM = ESTIMATED TRANSFER CFM TO OBTAIN DIFFERENTIAL PRESSURE. ADJUST CFM TO OBTAIN TARGET DIFFERENTIAL PRESSURE
 -W- = REQUIRED DIRECTION OF AIR FLOW (CASCADE)



KEY PLAN



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PROJECT NO. 20230523 SCALE 1/4" = 1'-0"

DRAWING NAME

LEVEL 1 PRESSURIZATION PLAN

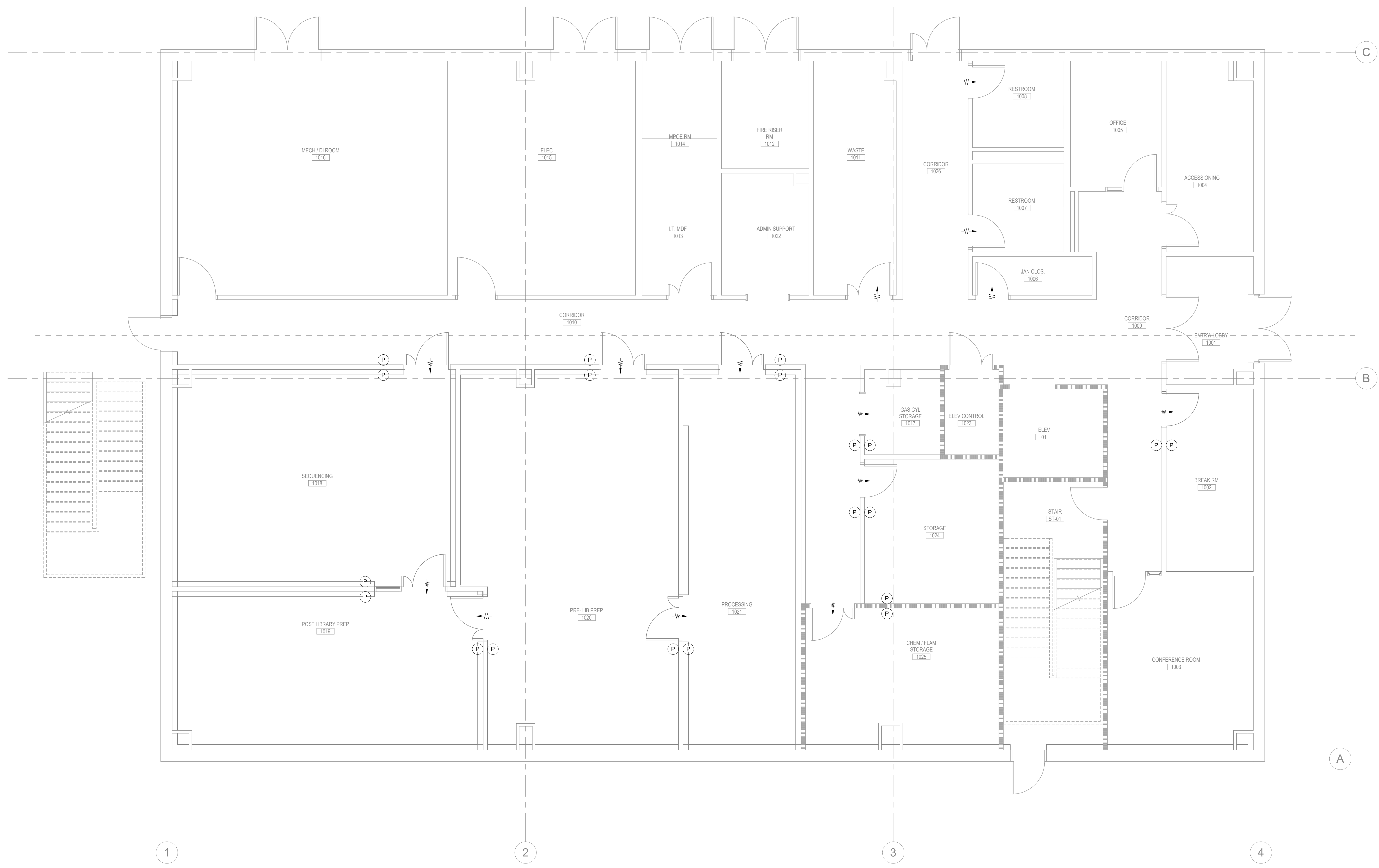
FLOOR/SECTION PHASE DRAWING NO.

CD H5.1

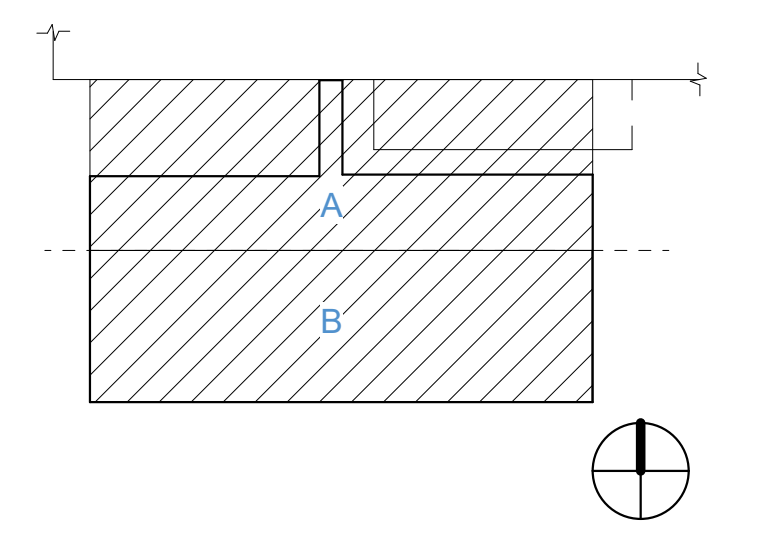
1 LEVEL 1 - PRESSURIZATION PLAN
 SCALE: 1/4" = 1'-0"

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LEGEND:
CFM = ESTIMATED TRANSFER CFM TO OBTAIN DIFFERENTIAL PRESSURE. ADJUST CFM TO OBTAIN TARGET DIFFERENTIAL PRESSURE
-W- = REQUIRED DIRECTION OF AIR FLOW (CASCADE)



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Las Vegas, NV 89106

DRAWN BY TK DATE 11.08.2024

PROJECT NO. 20230523 SCALE 1/4" = 1'-0"

DRAWING NAME
LEVEL 1 PRESSURIZATION PLAN PHASE 2

FLOOR/SECTION PHASE DRAWING NO.
CD H5.1.2

1 LEVEL 1 PRESSURIZATION PLAN - PHASE 2
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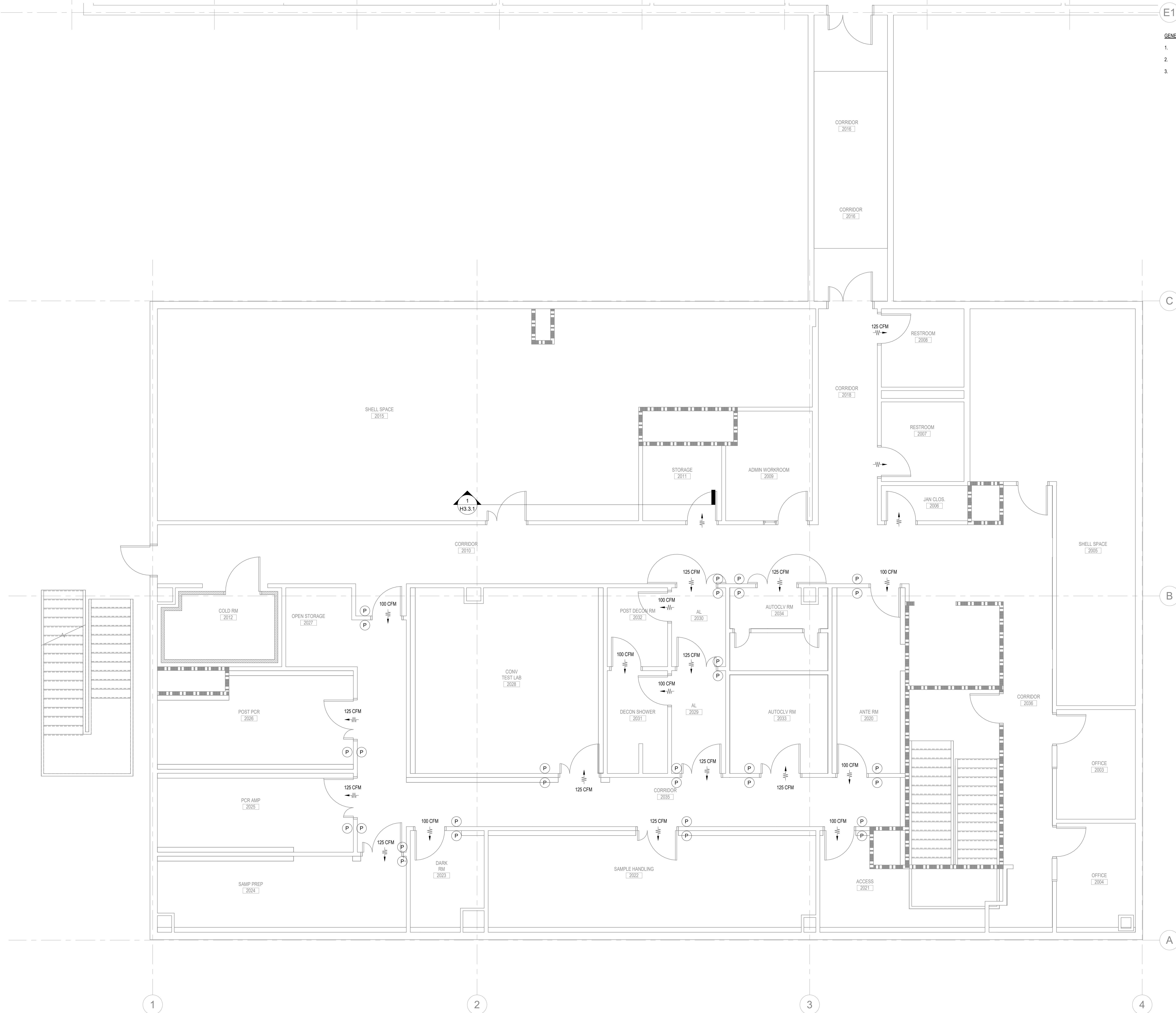
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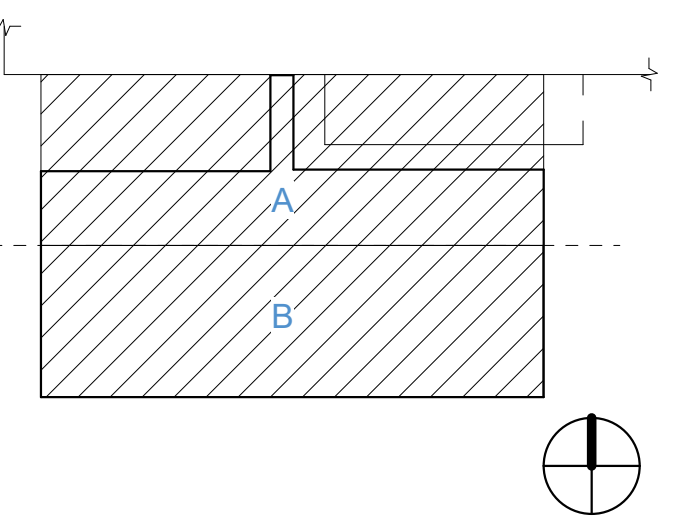
1E 2E 3E 4E 5E 6E 7E 8E

LEGEND:
 CFM = ESTIMATED TRANSFER CFM TO OBTAIN DIFFERENTIAL PRESSURE.
 -W- = REQUIRED DIRECTION OF AIR FLOW (CASCADE)
 E1

GENERAL NOTES:
 1. PROVIDE ROOM PRESSURE INDICATOR WITH VISUAL READOUT AND ALARM.
 2. PROVIDE INTERFACE TO BUILDING AUTOMATION SYSTEM TO MONITOR ROOM PRESSURE DIFFERENTIAL AND ALARMS.
 3. ADJUST EXHAUST AIR CFM'S AS NEEDED TO OBTAIN THE REQUIRED ROOM PRESSURE RELATIONSHIPS. A MINIMUM OF 0.02-INCHES W.C. WILL BE REQUIRED.



KEY PLAN



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B		50% D.D SET	05.24.2024
A			05.10.2024

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 Las Vegas, NV 89106

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DRAWING NAME

LEVEL 2 PRESSURIZATION PLAN

FLOOR/SECTION PHASE DRAWING NO.

CD H5.2

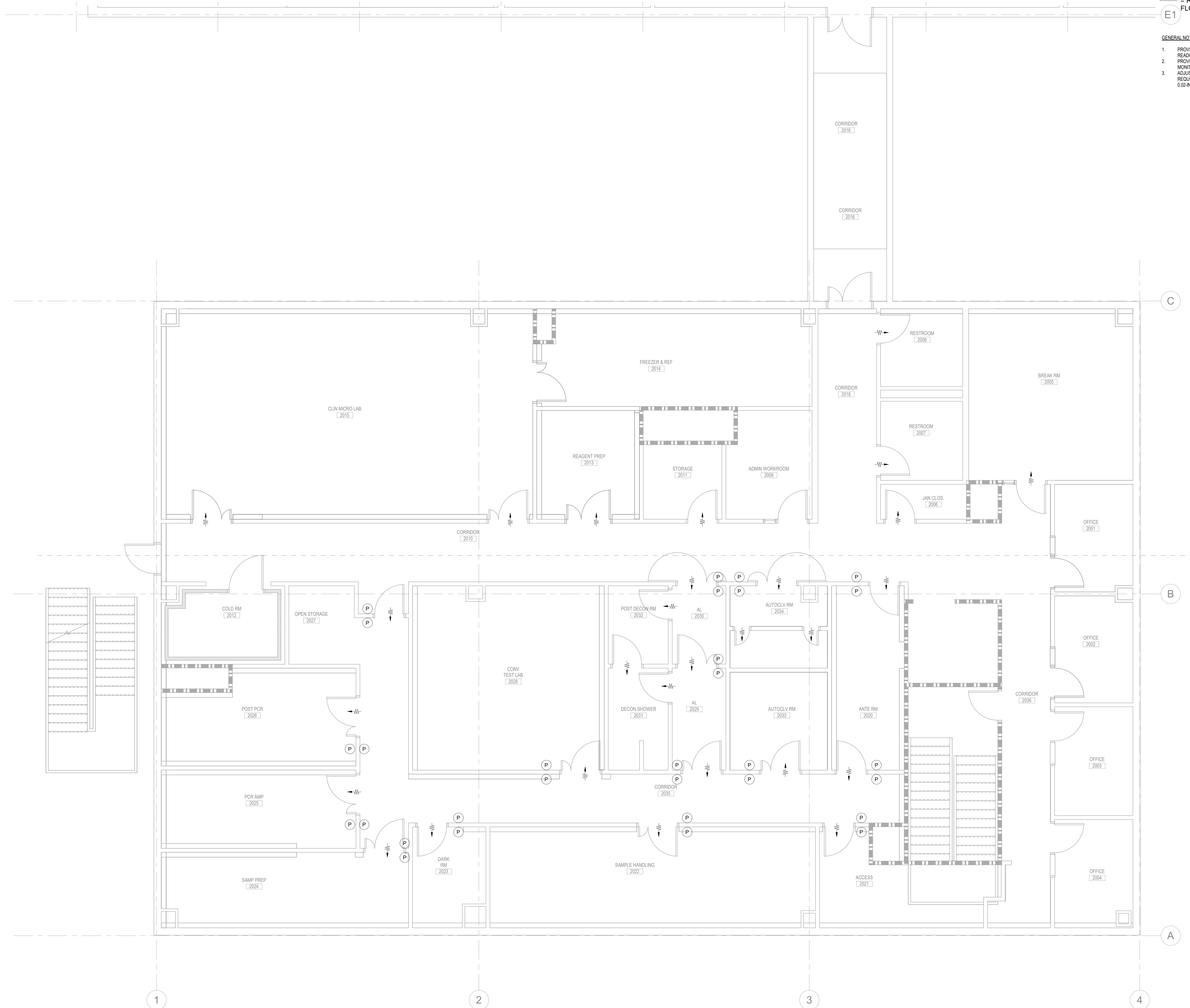
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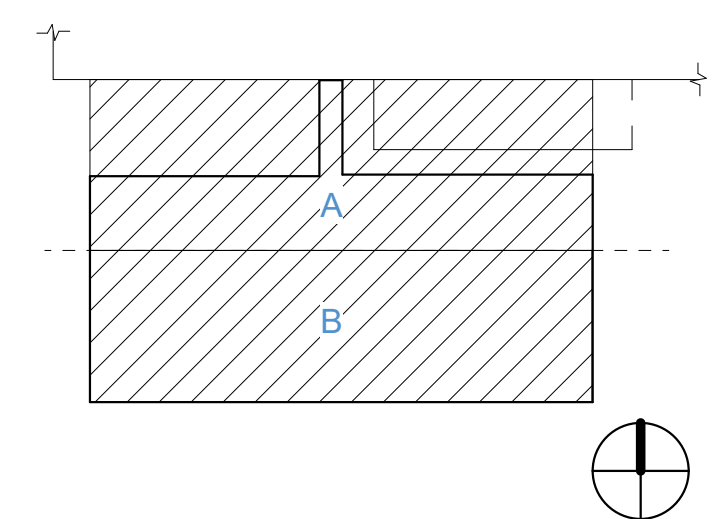
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LEGEND:
 CFM = ESTIMATED TRANSFER CFM TO OBTAIN DIFFERENTIAL PRESSURE. ADJUST CFM TO OBTAIN TARGET DIFFERENTIAL PRESSURE
 - = REQUIRED DIRECTION OF AIR FLOW (CASCADE)
 E1

GENERAL NOTES:
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 3. ADJUST EXHAUST AIR CFM'S AS NEEDED TO OBTAIN THE REQUIRED ROOM PRESSURE RELATIONSHIPS. A MINIMUM OF 0.02-INCHES W.C. WILL BE REQUIRED.



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DRAWING NAME
 LEVEL 2 PRESSURIZATION PLAN PHASE 2

FLOOR/SECTION PHASE DRAWING NO.
 CD H5.2.2

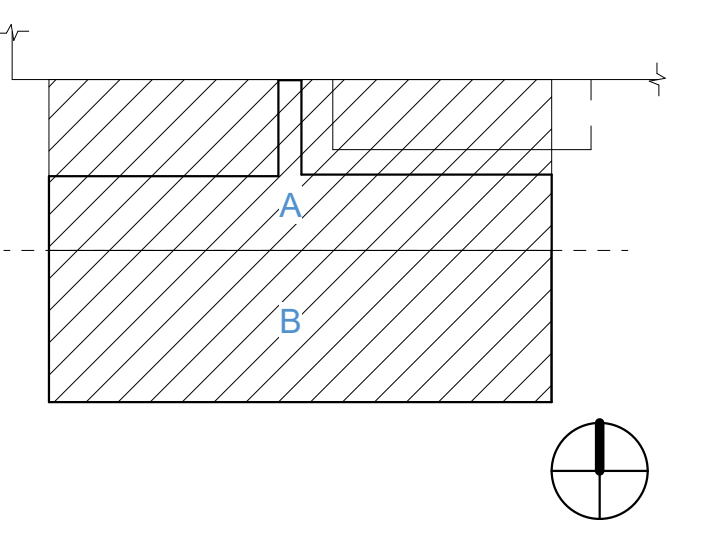
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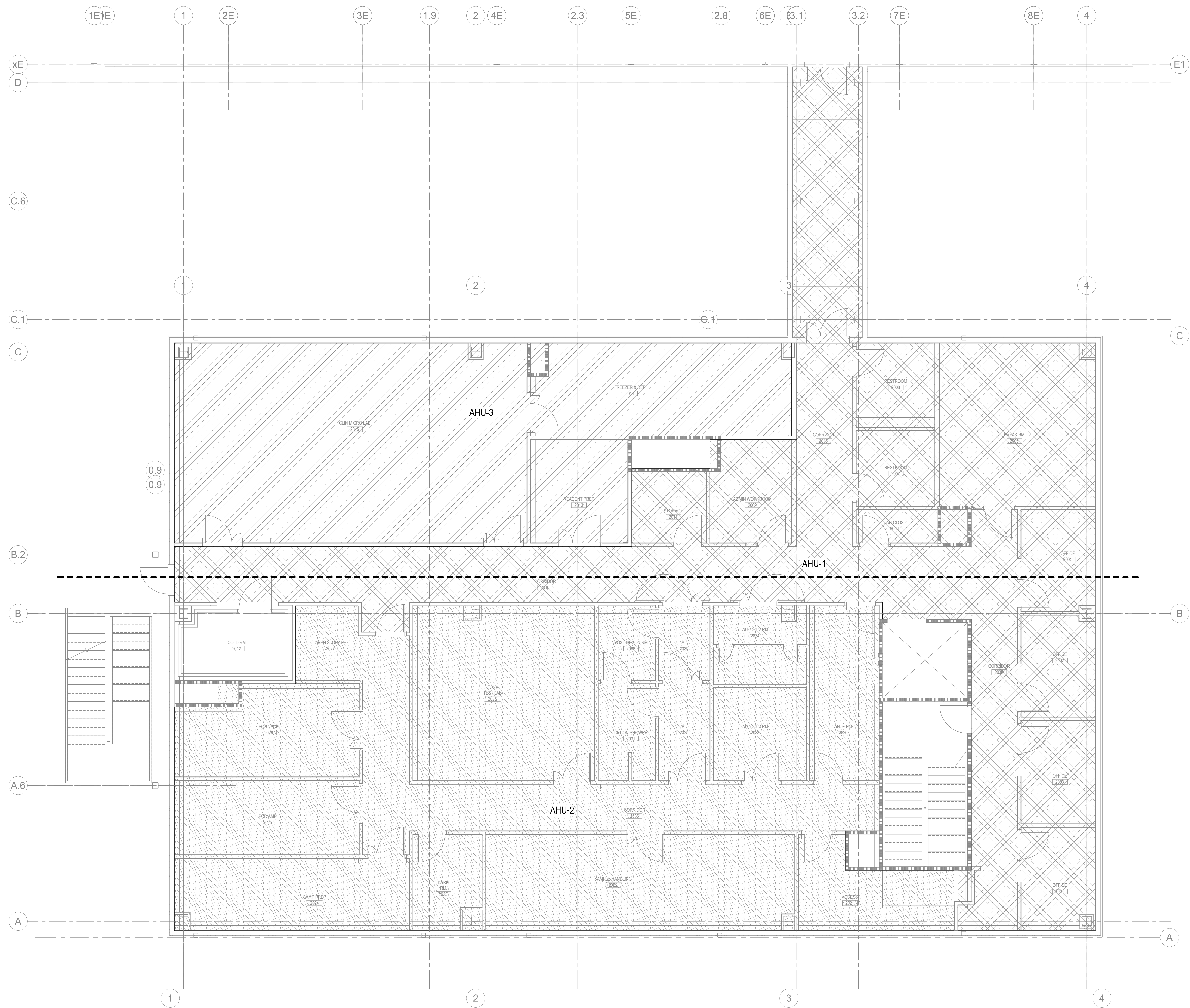
DRAWING NAME
LEVEL 1 HVAC ZONING PLAN

FLOOR/SECTION PHASE DRAWING NO.
CD H5.3

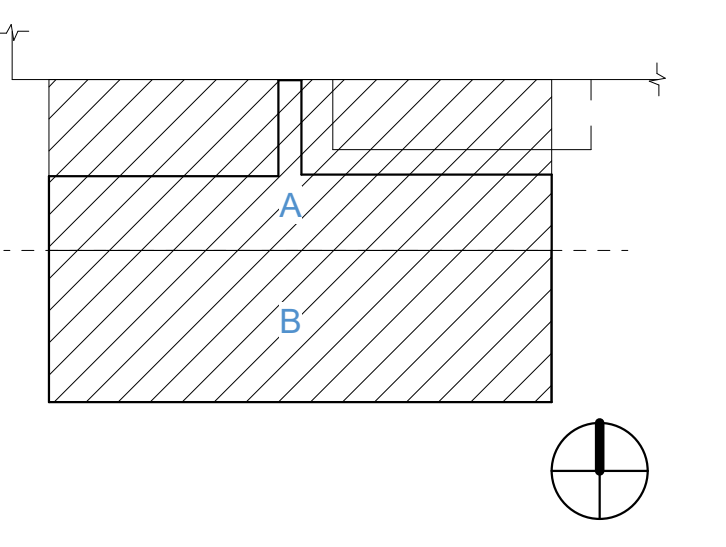
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1 LEVEL 1 - HVAC ZONING PLAN
SCALE: 1/4" = 1'-0"



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DRAWING NAME

LEVEL 2 HVAC ZONING PLAN

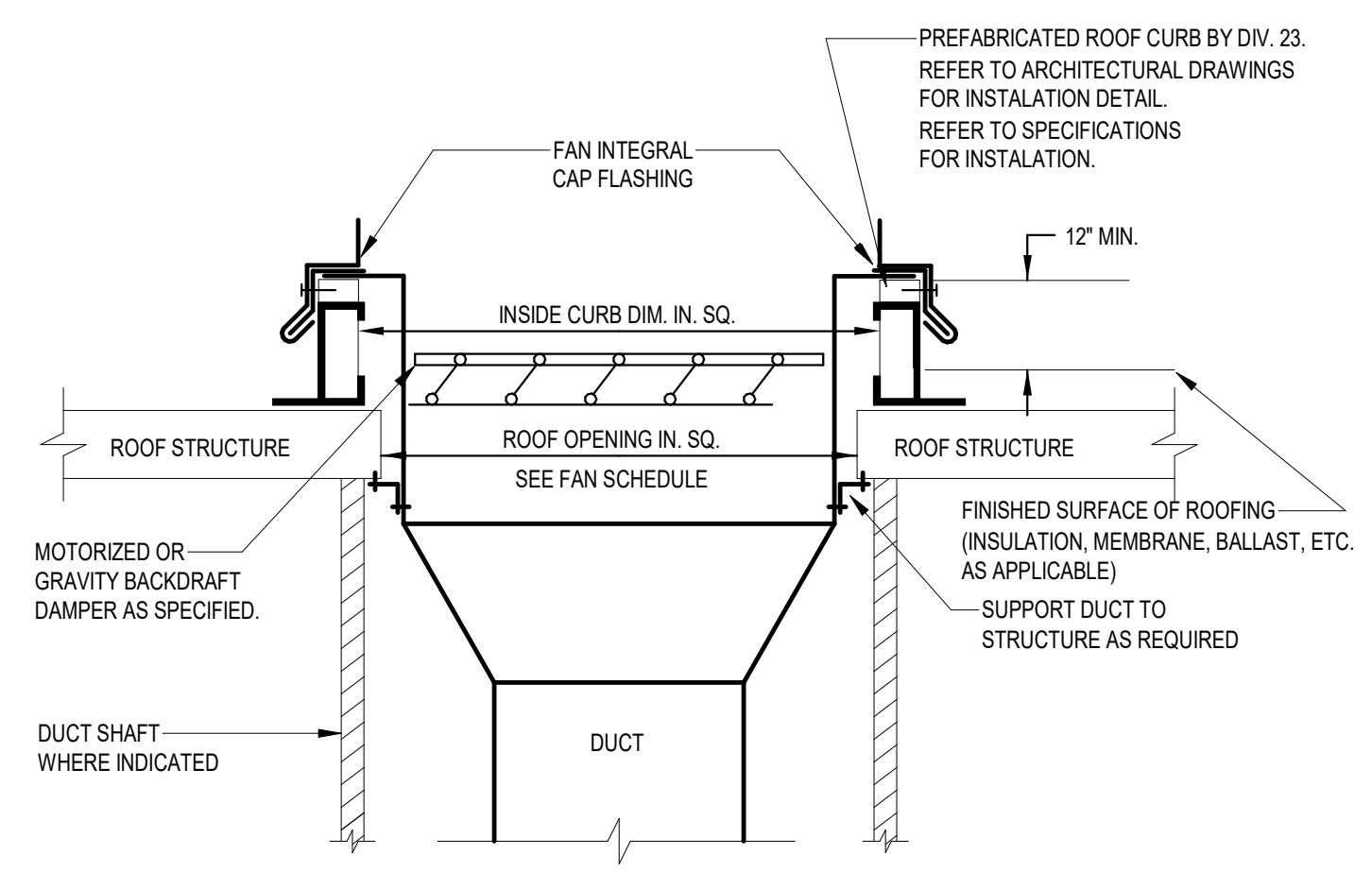
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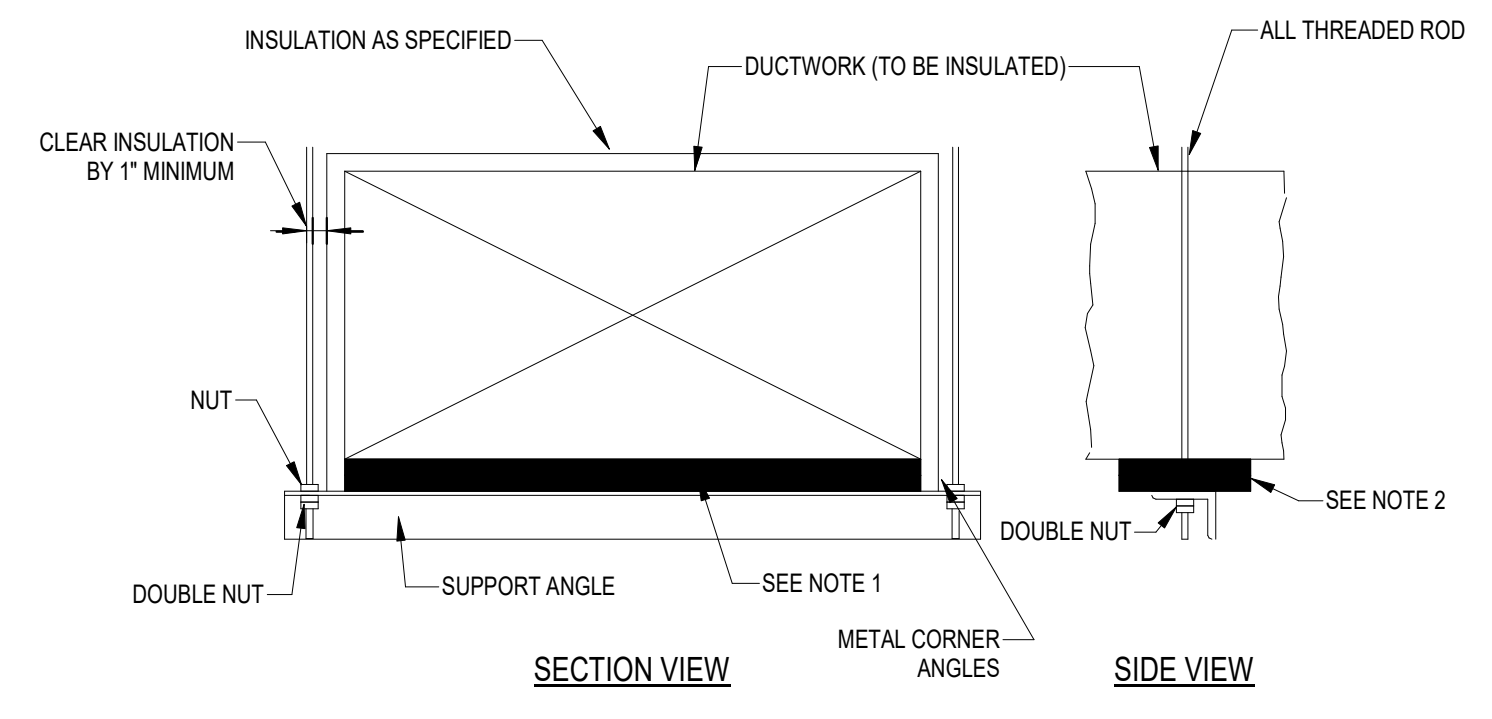
1 LEVEL 2 - HVAC ZONING PLAN
SCALE: 1/4" = 1'-0"

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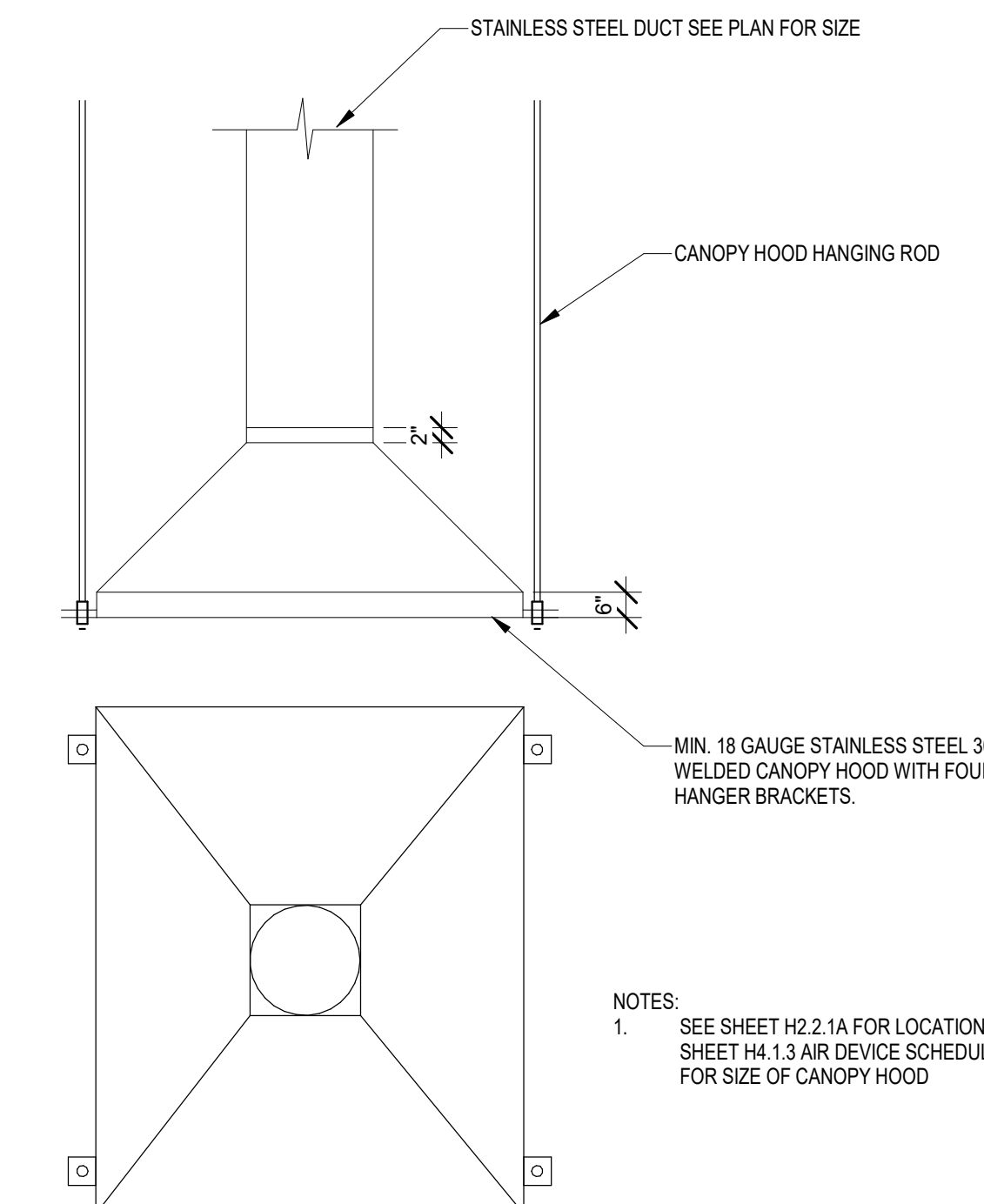


6 PREFABRICATED ROOF CURB FOR FAN
SCALE: NTS



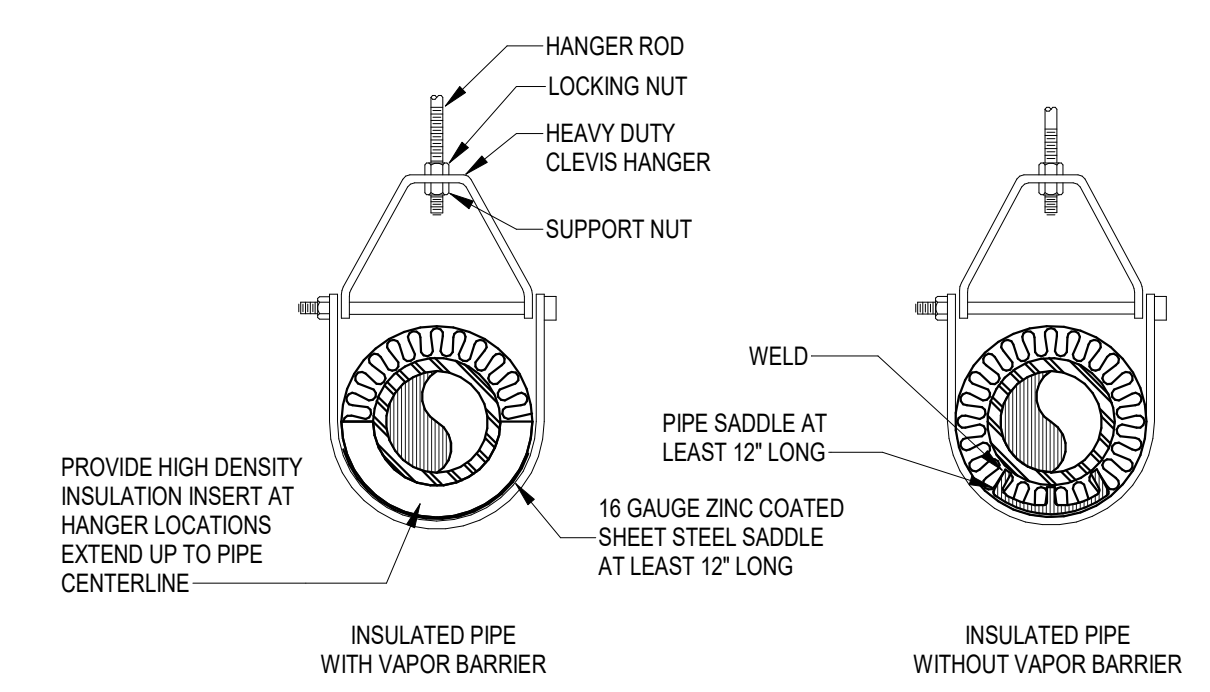
NOTES:
1. DOUBLE LAYER OF RIGID INSULATION TO BE PLACED BETWEEN CONDITIONED DUCTWORK AND SUPPORT ANGLE.
2. PROVIDE INSULATION 12" LONG MINIMUM FULL WIDTH OF DUCT BETWEEN SUPPORTS FOR ALL DUCTWORK SPECIFIED AS BEING INSULATED (SUPPLY, EXHAUST, RETURN AND OUTSIDE AIR).
3. USE ALUMINUM JOINT TAPE TO SEAL ALL SEAMS AND REINFORCE BOTTOM CORNERS OF INSULATION.
4. INSTALLATION SHALL FORM A CONTINUOUS VAPOR BARRIER.

7 INSULATED DUCT HANGER DETAIL
SCALE: NTS



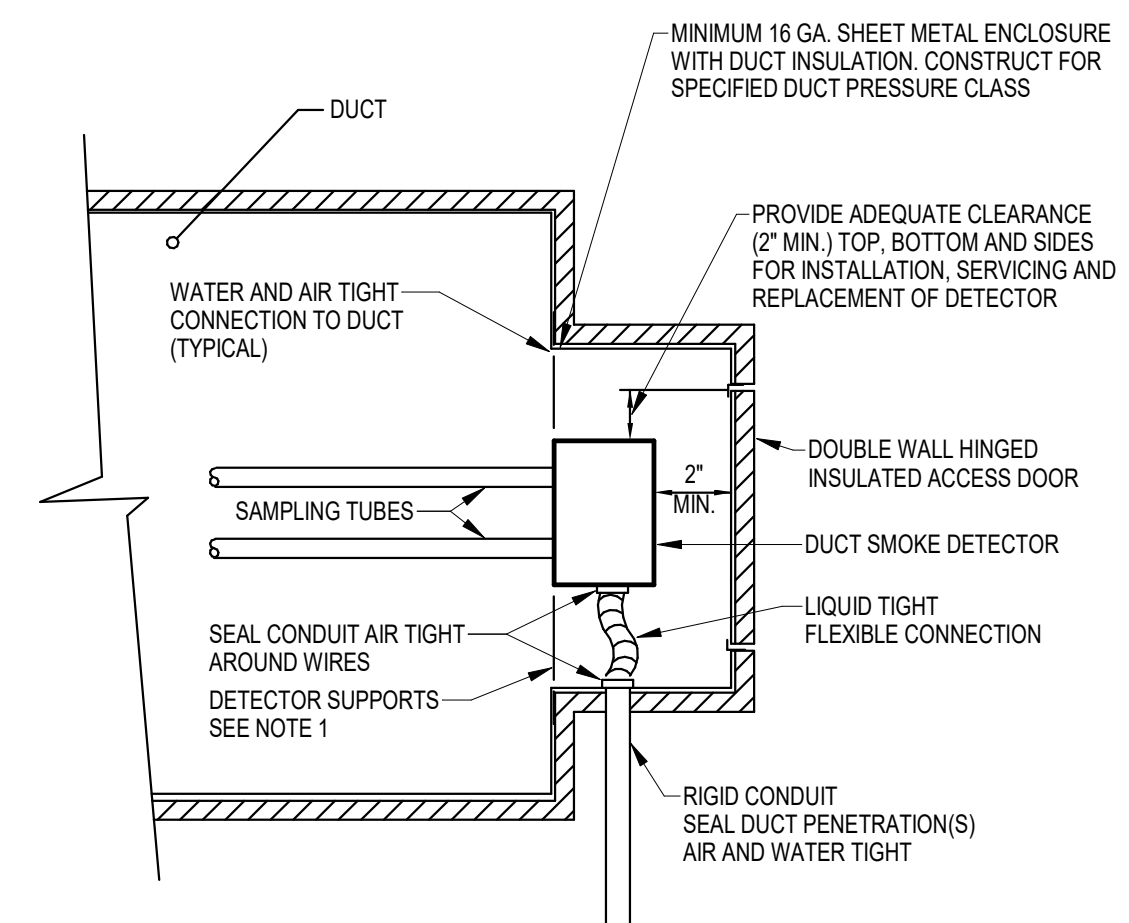
NOTES:
1. SEE SHEET H2.2.1A FOR LOCATION AND SHEET H4.1.3 AIR DEVICE SCHEDULE FOR SIZE OF CANOPY HOOD.

4 CANOPY HOOD DETAIL
SCALE: NTS



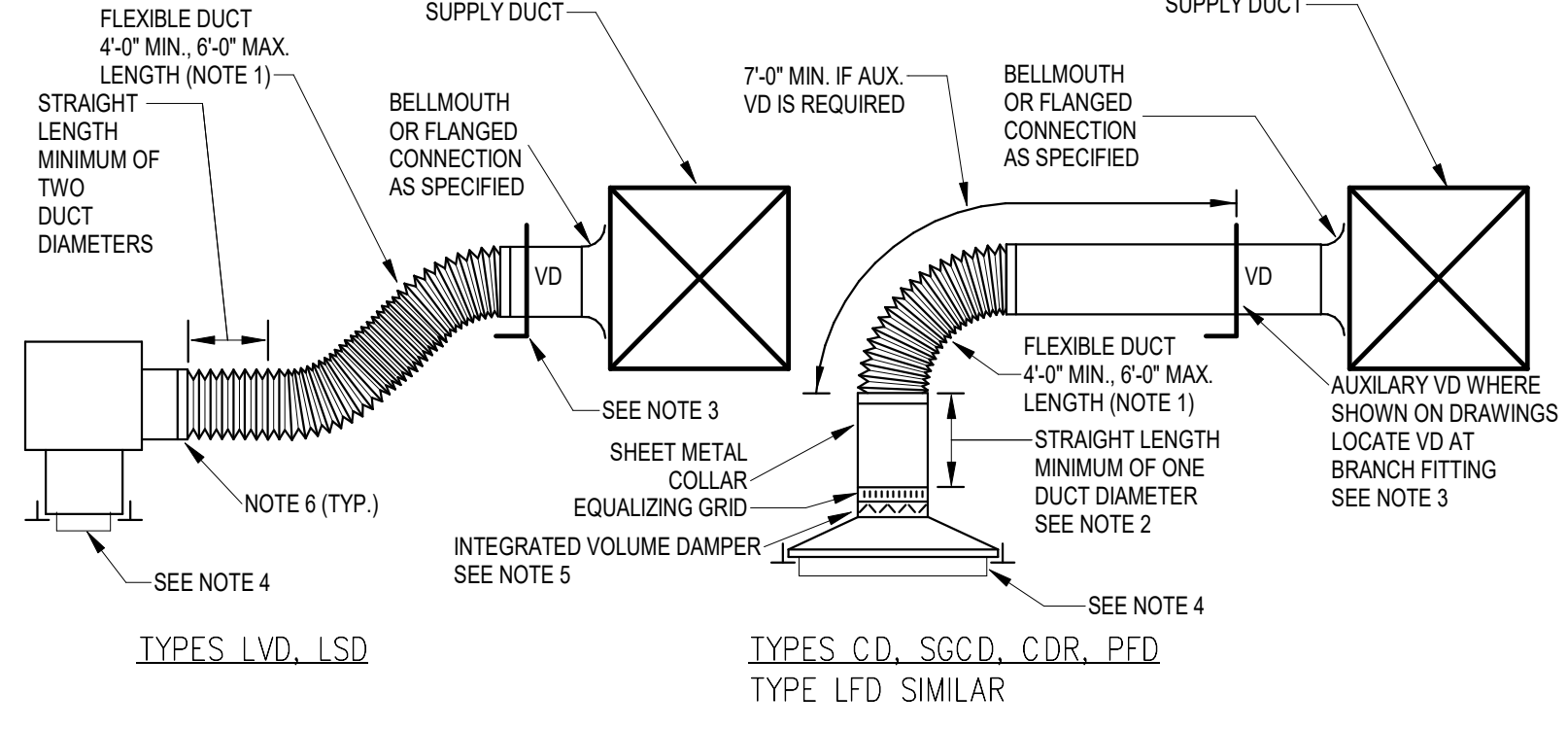
NOTE: REFER TO SPECIFICATION 23 05 00 FOR SUPPORT SPACING AND ADDITIONAL REQUIREMENTS

1 PIPE SUPPORT DETAILS
SCALE: NTS



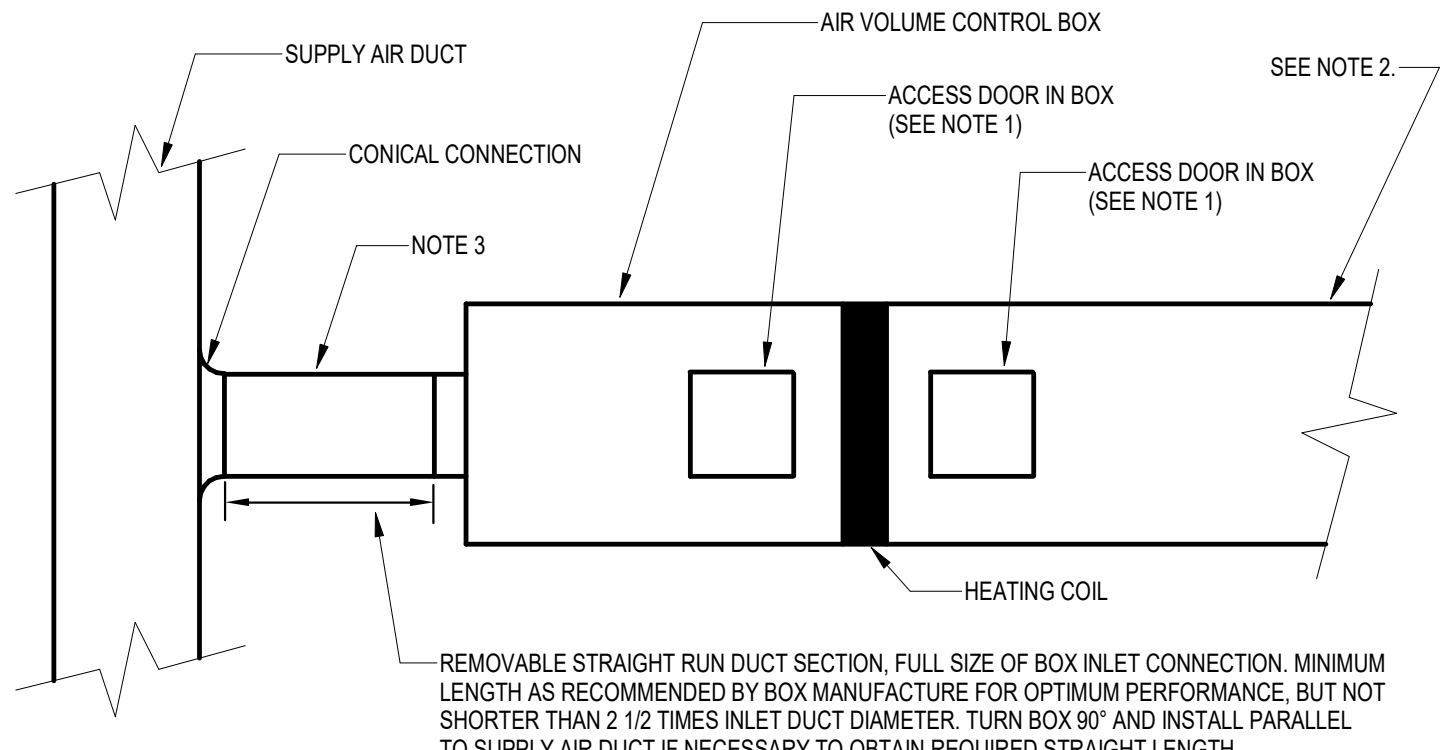
NOTE:
1. CUT OPENING IN DUCT, SAME SIZE AS ENCLOSURE, AND PROVIDE DETECTOR SUPPORTS ACROSS OPENING AS REQUIRED.

11 SMOKE DETECTOR INSTALLATION IN OUTDOOR DUCT
SCALE: NTS



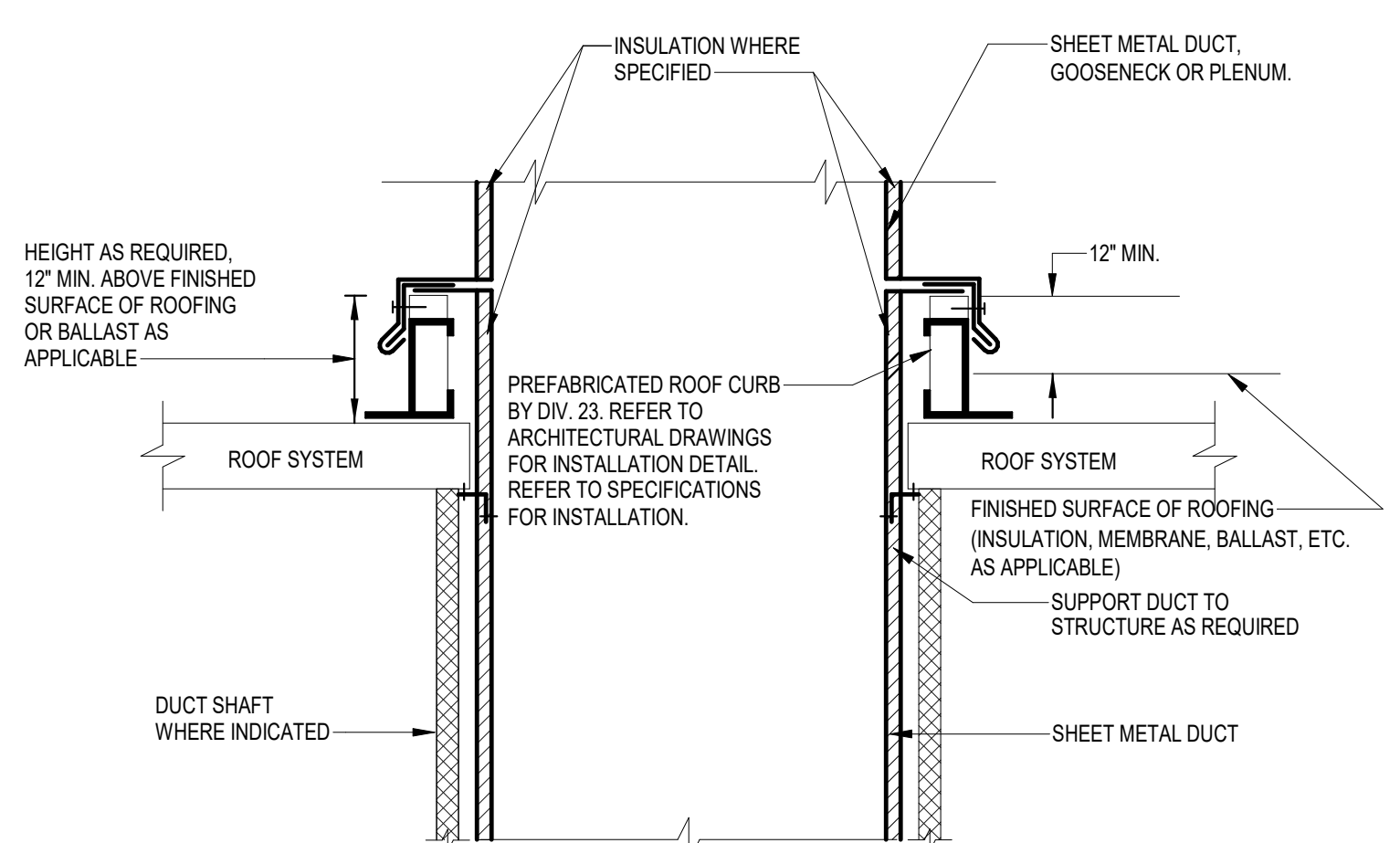
NOTES:
1. FLEXIBLE DUCT SHALL BE SUPPORTED FROM STRUCTURE ABOVE TO PREVENT KINKING AND SAGGING.
2. MAY BE REDUCED ONLY WHEN REQUIRED BY SPACE LIMITATION. PROVIDE SHEET METAL TRANSITION AS REQUIRED BETWEEN FLEXIBLE DUCT AND SHEET METAL COLLAR IF DIFFUSER DOES NOT HAVE ROUND CONNECTION.
3. PROVIDE CONCEALED CEILING DAMPER REGULATOR OR CEILING ACCESS DOOR WHERE VD IS LOCATED ABOVE INACCESSIBLE CEILING. BSL3 LAB AREAS WILL HAVE ELECTRONIC BALANCING DAMPERS. SEE DETAIL 9H6.1.
4. PROVIDE BORDER STYLE AND DIFFUSER FACE COMPATIBLE WITH CEILING SYSTEM.
5. OMIT INTEGRAL VOLUME DAMPER WHERE SPECIFIED.
6. ATTACH FLEXIBLE DUCT TO DIFFUSER AND BRANCH DUCT WITH SCREW WORM GEAR BAND CLAMP. PLASTIC TIE STRAPS NOT ACCEPTABLE.

8 DIFFUSER INSTALLATION
SCALE: NTS

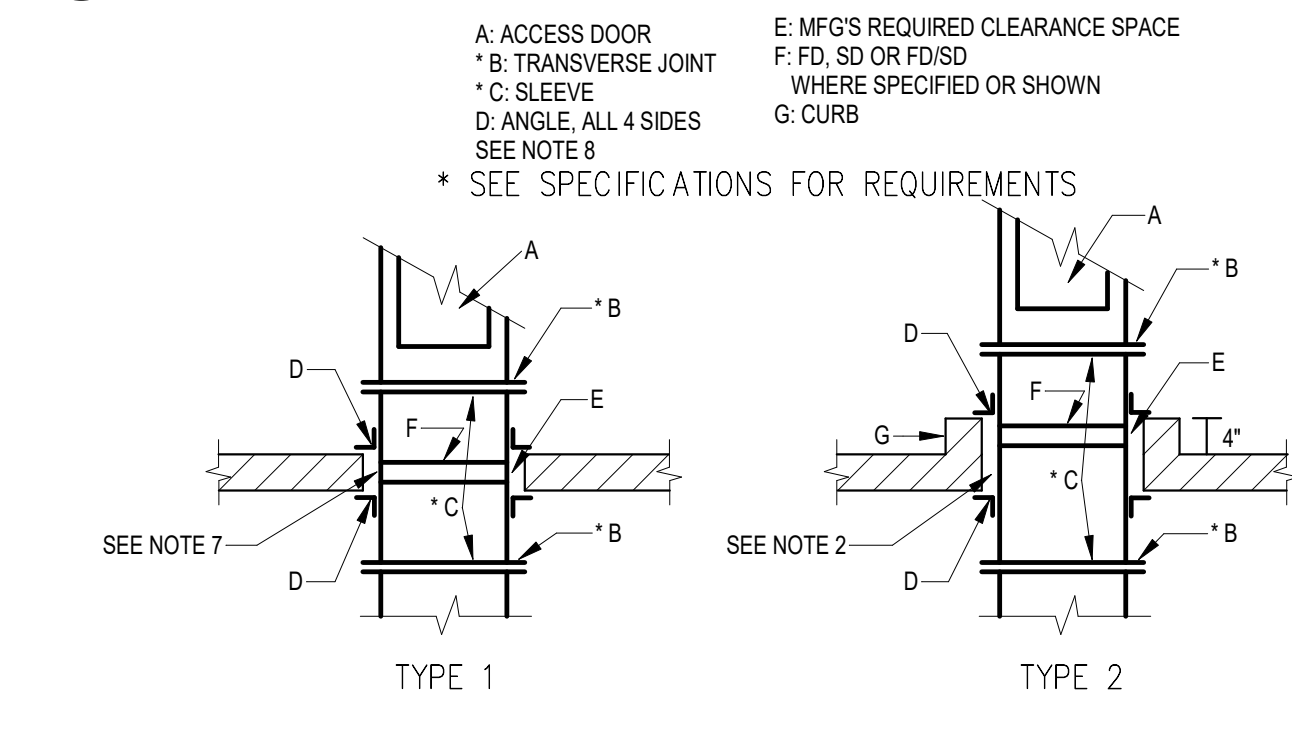


NOTES:
1. IF BOX DOES NOT HAVE EITHER REMOVABLE BOX CASING PANEL OR ACCESS DOOR UPSTREAM OF HEATING COIL, REMOVE COIL AND REINSTALL IN DOWNSTREAM DUCTWORK WITH REQUIRED ACCESS DOORS. REFER TO DUCT MOUNTED REHEAT COIL INSTALLATION DETAIL.
2. BOX LOCATIONS/ARRANGEMENTS ON PLAN ARE SHOWN DIAGRAMMATICALLY. PROVIDE MINIMUM OF ONE 90° ELBOW IN DISTRIBUTION DUCT BEFORE FIRST BRANCH DIFFUSER CONNECTION.
3. IF ELBOW IS PROVIDED BETWEEN SUPPLY MAIN AND BOX, OR LENGTH OF DUCT EXCEEDS 10 FT., INCREASE INLET DUCT BY 2 INCH IN DIAMETER.

5 SUPPLY AIR VOLUME CONTROL BOX (WITH HEATING COIL)
SCALE: NTS

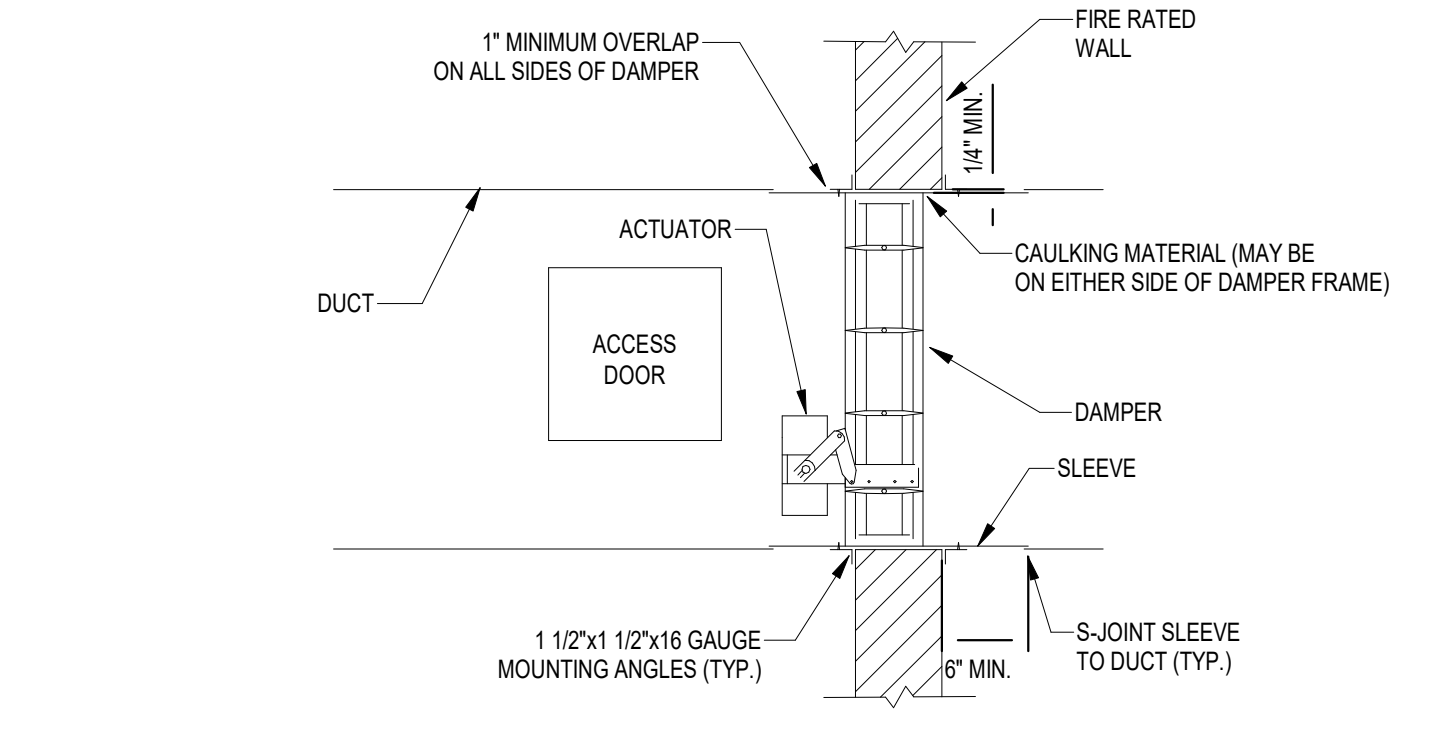


2 PREFABRICATED ROOF CURB - DUCT THRU ROOF
SCALE: NTS



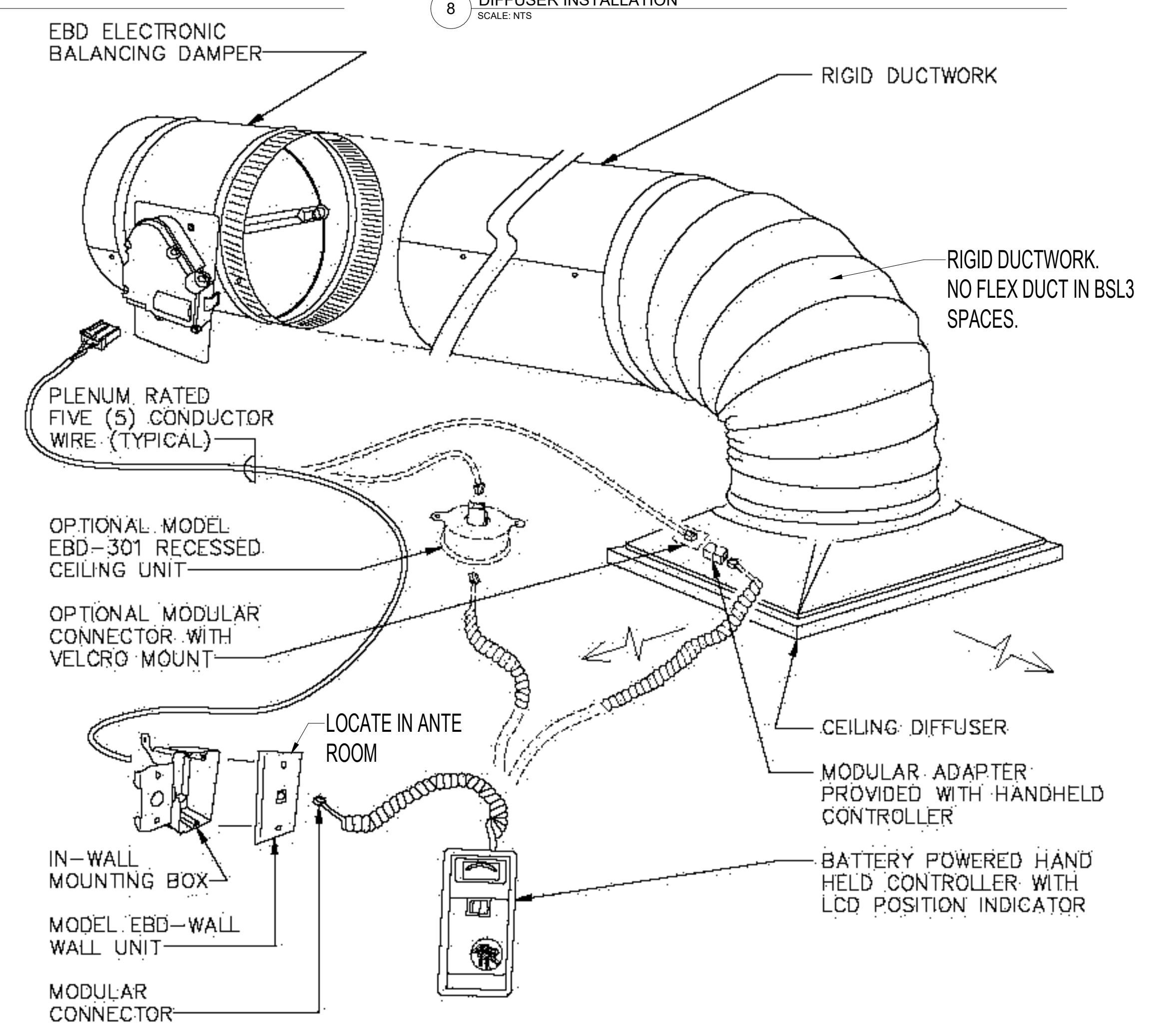
NOTES:
1. USE TYPE 2 PENETRATION THROUGH EQUIPMENT ROOM AND SIMILAR FLOORS. TYPE 1 ELSEWHERE.
2. WHERE DAMPERS FOR HIGH VELOCITY AND ROUND DUCTS ARE CONSTRUCTED SO SLEEVE IS NOT PART OF DUCT CONSTRUCTION, PROVIDE SEPARATE SLEEVE AS REQUIRED BY UL 555.
3. WHERE FD, SD OR FSD IS NOT SHOWN OR SPECIFIED, PROVIDE IDENTICAL CONSTRUCTION, BUT OMIT DAMPER AND ACCESS DOOR. SEE NOTE 6 FOR EXCEPTION.
4. WHERE EITHER A SD ONLY OR NO DAMPER IS SHOWN OR SPECIFIED, CONTRACTOR FOR DIVISION 07 WILL SEAL CLEARANCE SPACE.
5. WHERE DUCT IS INSULATED, TERMINATE INSULATION WITH VAPOR SEAL AT FACE OF CONSTRUCTION. SEE NOTE 6 FOR EXCEPTION.
6. PENETRATION AT INTERMEDIATE FLOOR FOR DUCT ENCLOSED IN FIRE RATED SHAFT, OMIT "C" AND "D" AND CARRY INSULATION THROUGH OPENING.
7. PROVIDE SLEEVE FOR FLOOR/WALL OPENING AS SPECIFIED (NOT SHOWN).
8. SILICON CALK ALL EDGES AND JOINTS AND CORNERS AT ANGLES.

3 DUCT PENETRATION THROUGH FLOOR AND FIRE OR SMOKE
SCALE: NTS



NOTE: PROVIDE FIRE/SMOKE DAMPER THAT MEETS THE REQUIREMENTS ESTABLISHED BY THE CALIFORNIA STATE FIRE MARSHALL (CSFM) AND UL STANDARDS 555 AND 555S. DAMPER METAL BASES ON RUBBER FSD-36 WITH (CSFM LISTING NO 3230-345-109), UL555 LISTING R5531, AND UL555S LISTING R5531.

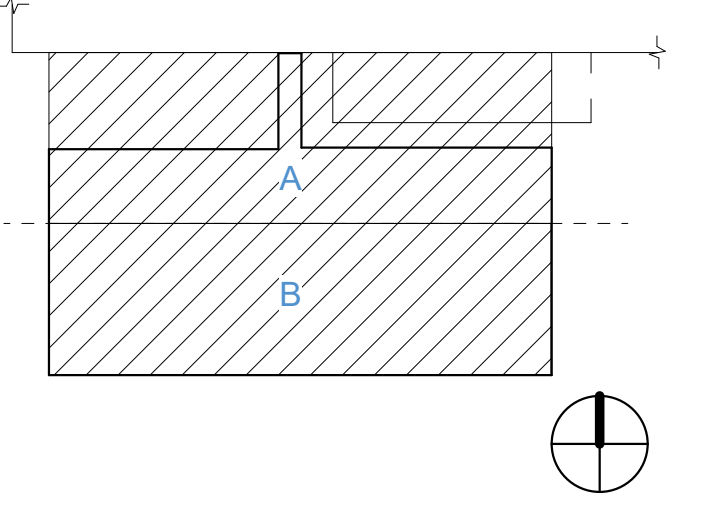
6 FIRE/SMOKE DAMPER INSTALLATION
SCALE: NTS



YOUNG REGULATOR ELECTRONIC BALANCING DAMPER (EBD) WITH POSITIVE FEEDBACK CONTROL SYSTEM
NO SCALE

9 ELECTRONIC BALANCING VALVE
SCALE: NTS

KEY PLAN



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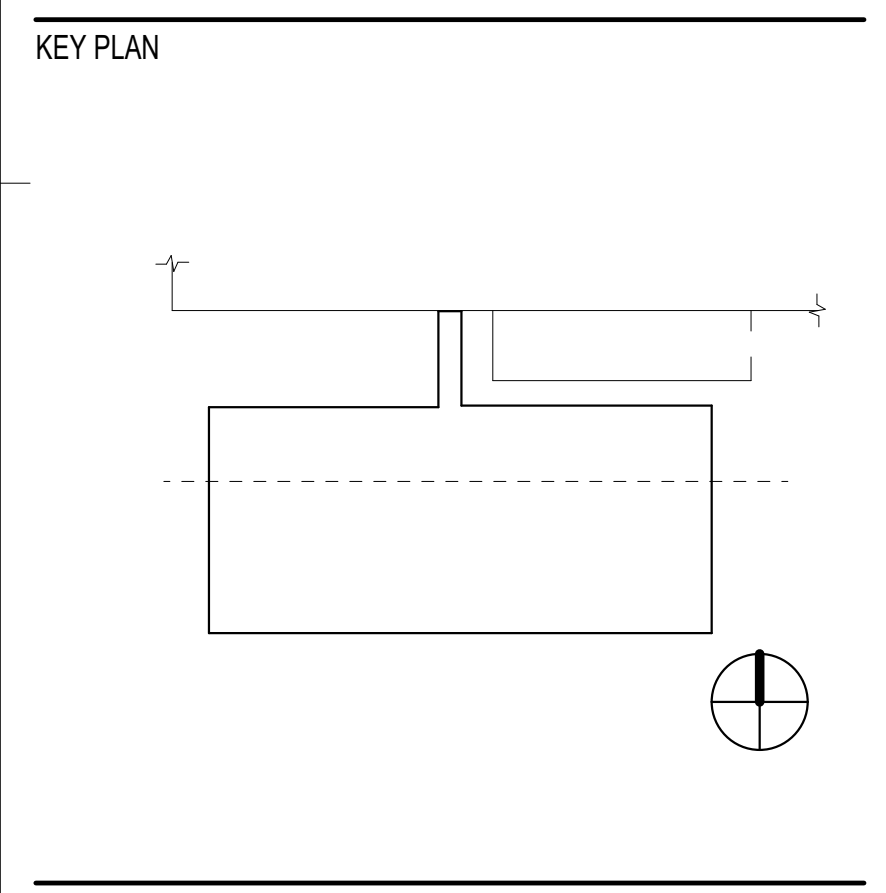
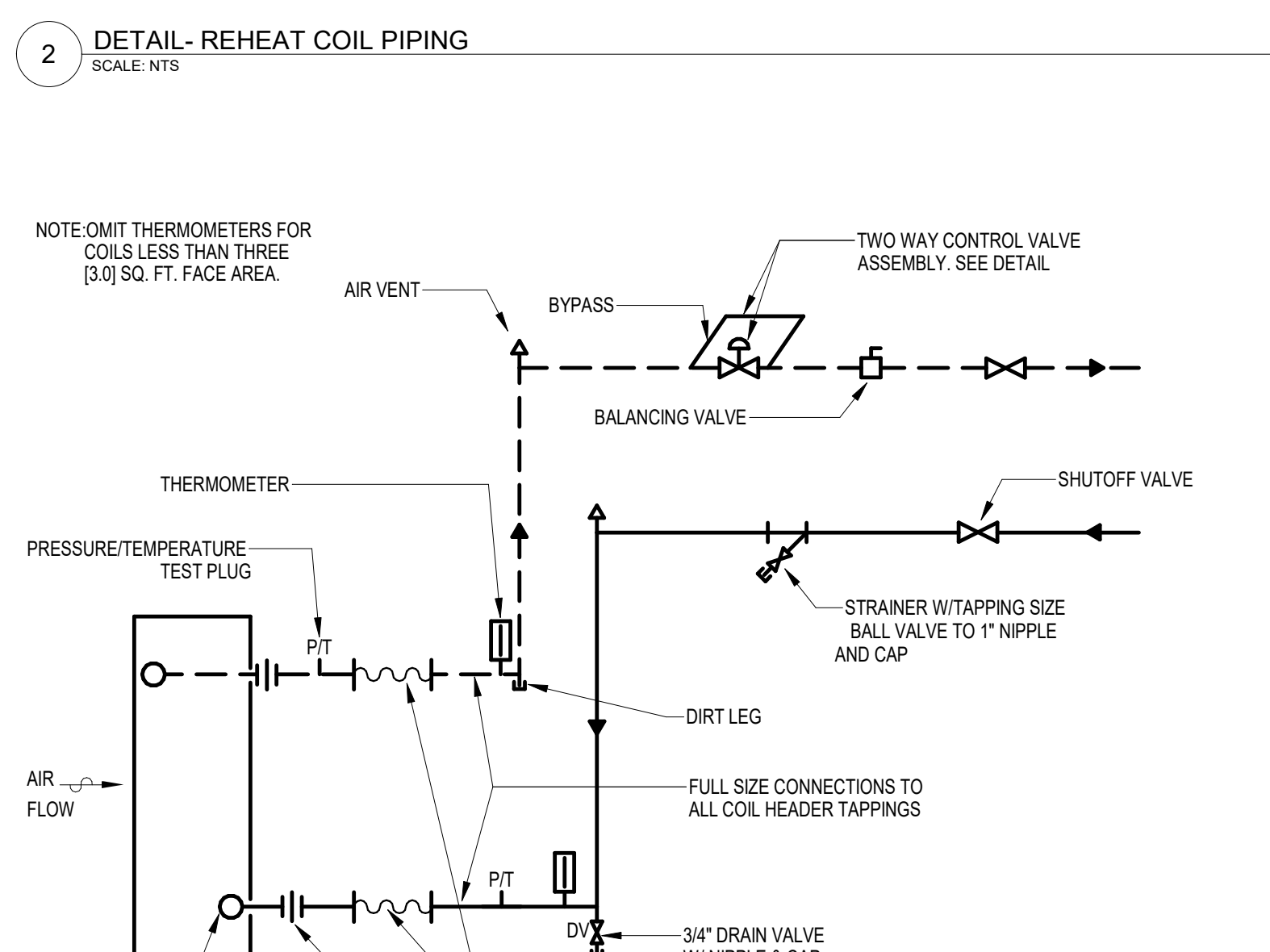
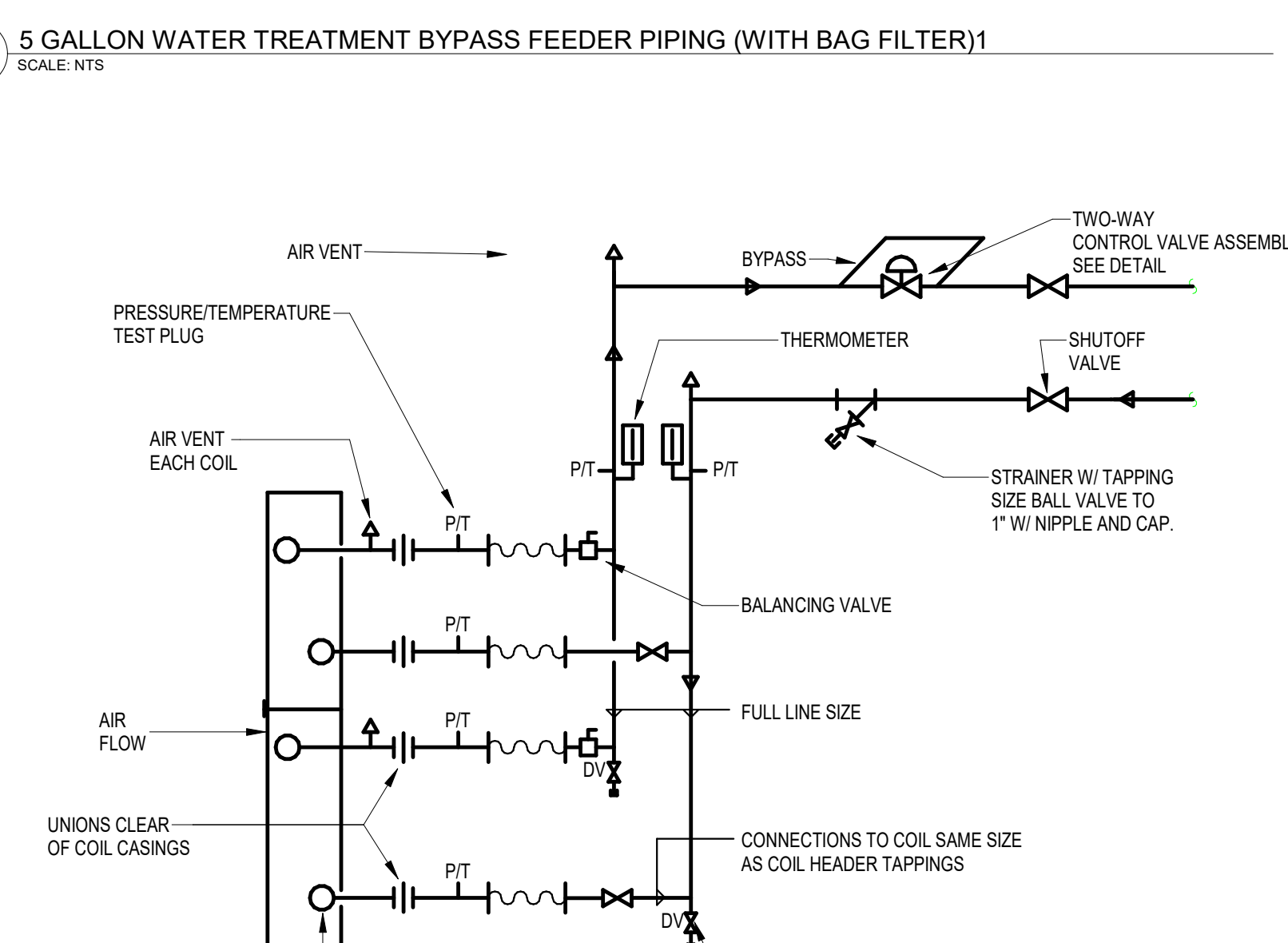
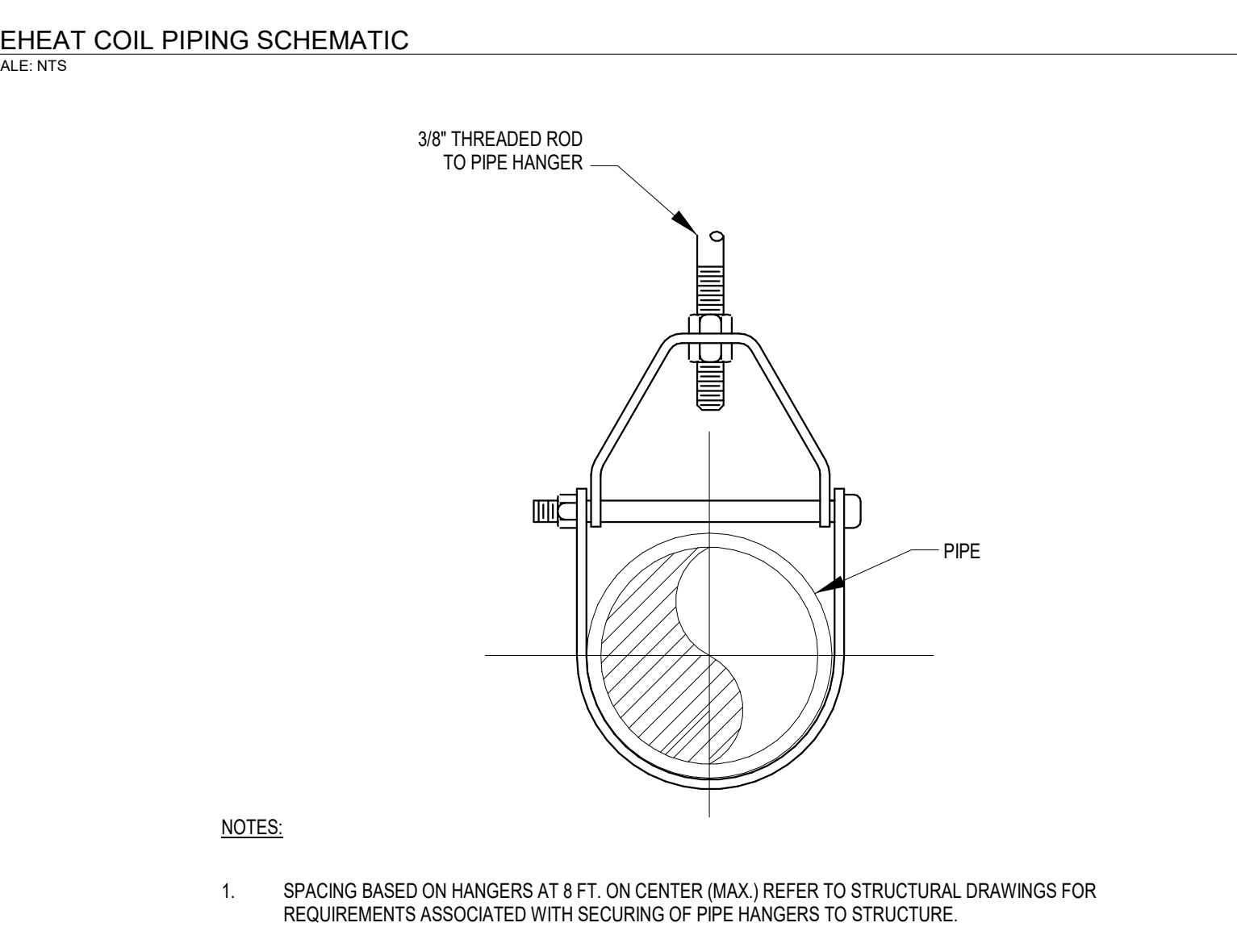
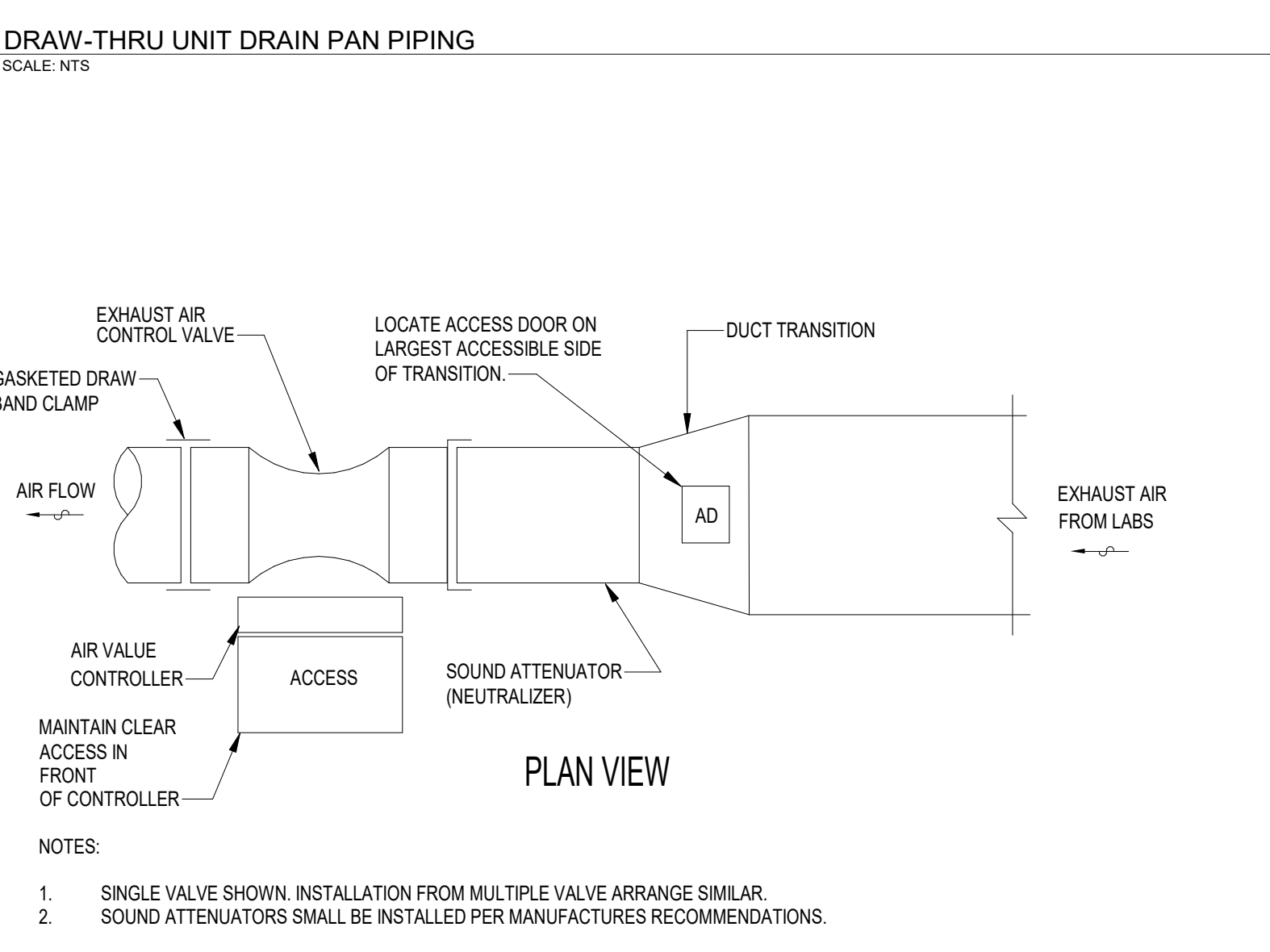
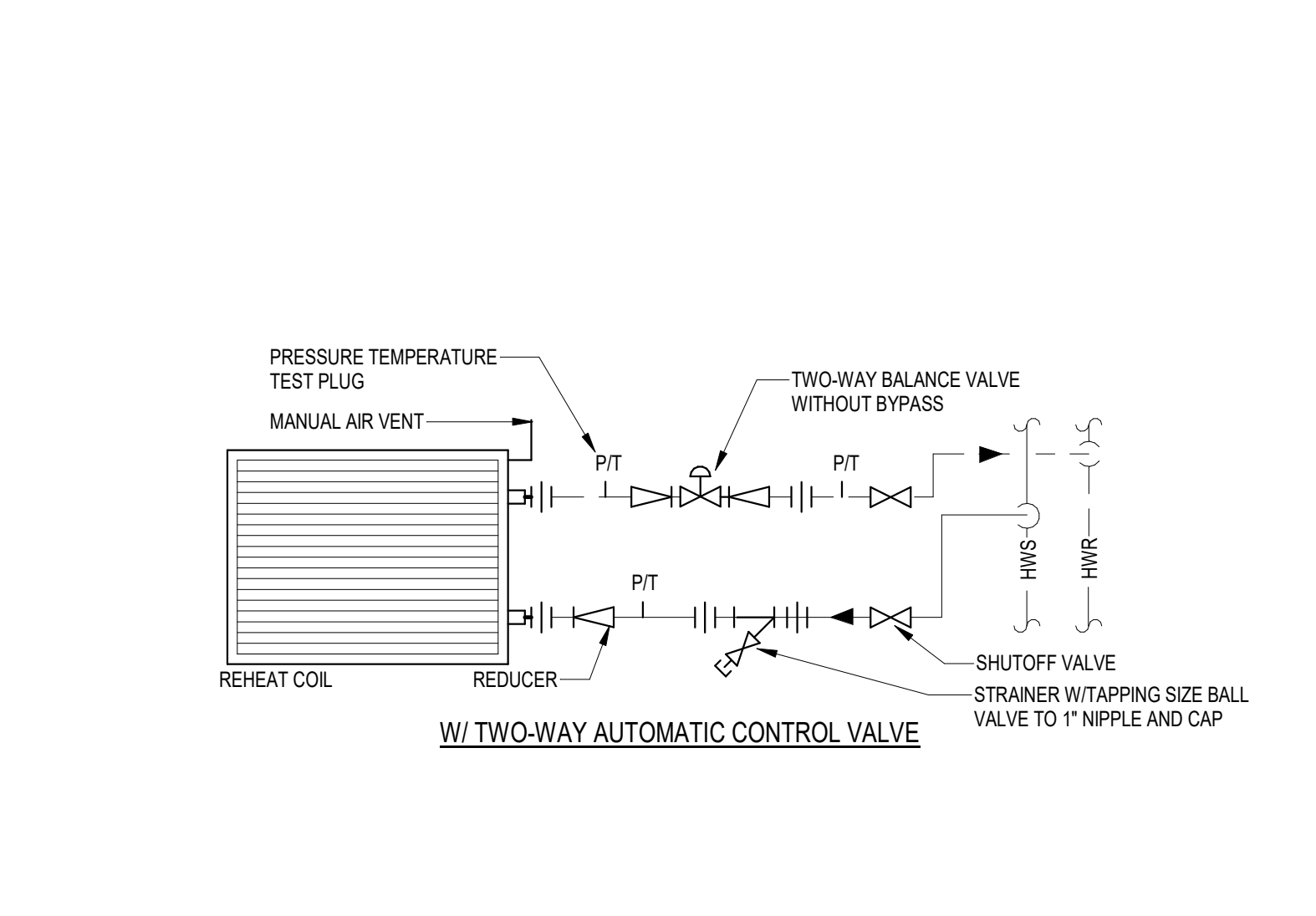
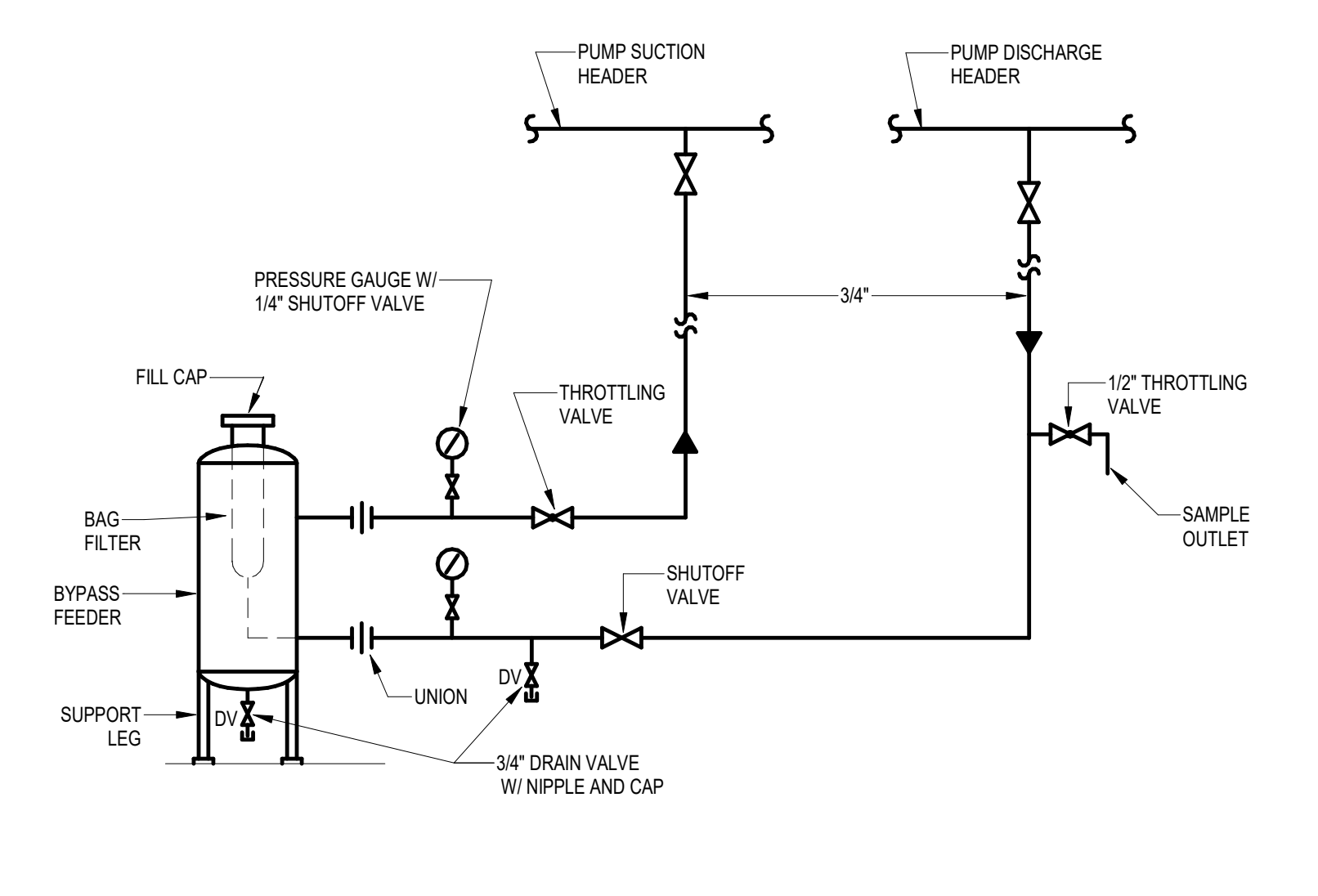
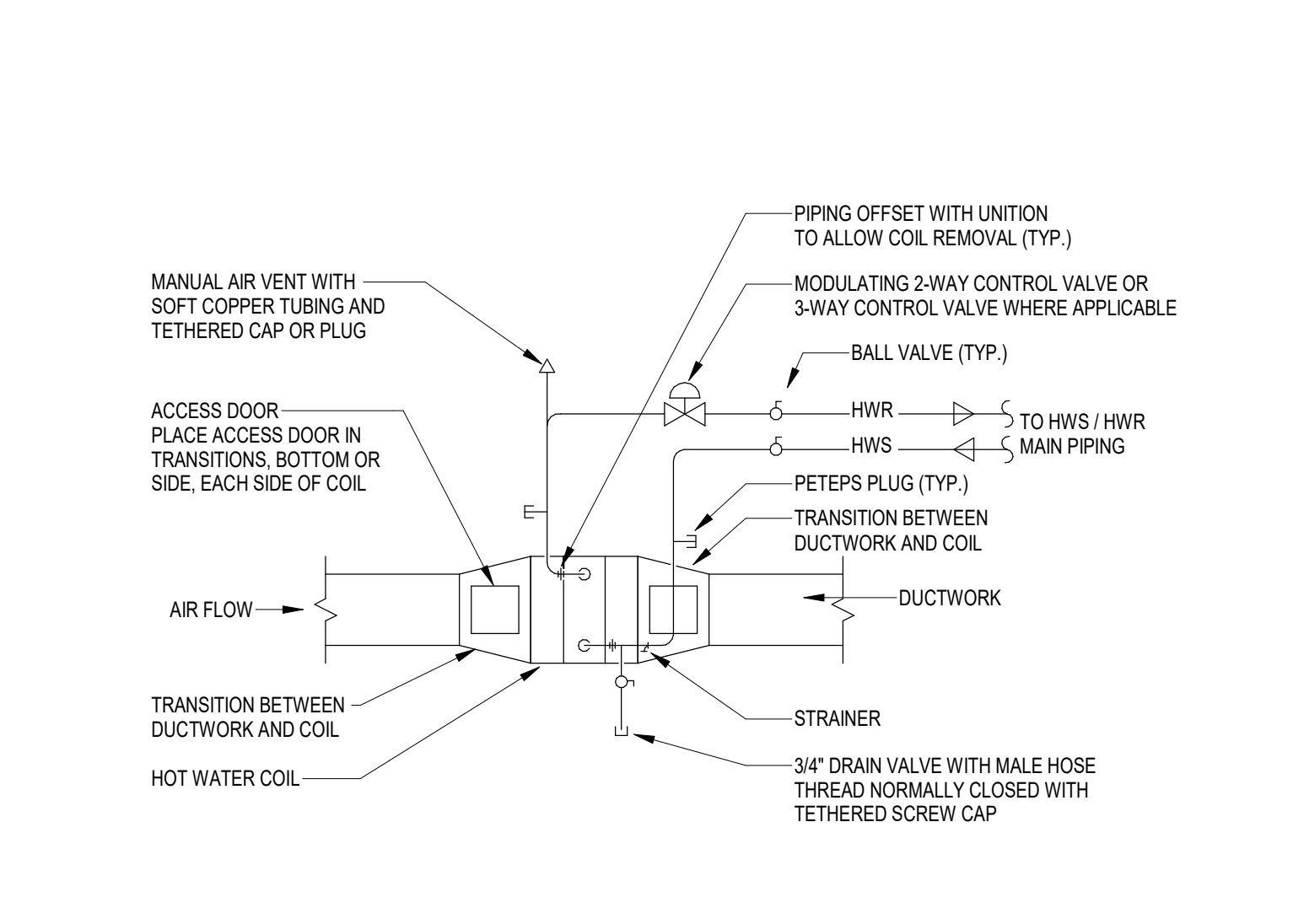
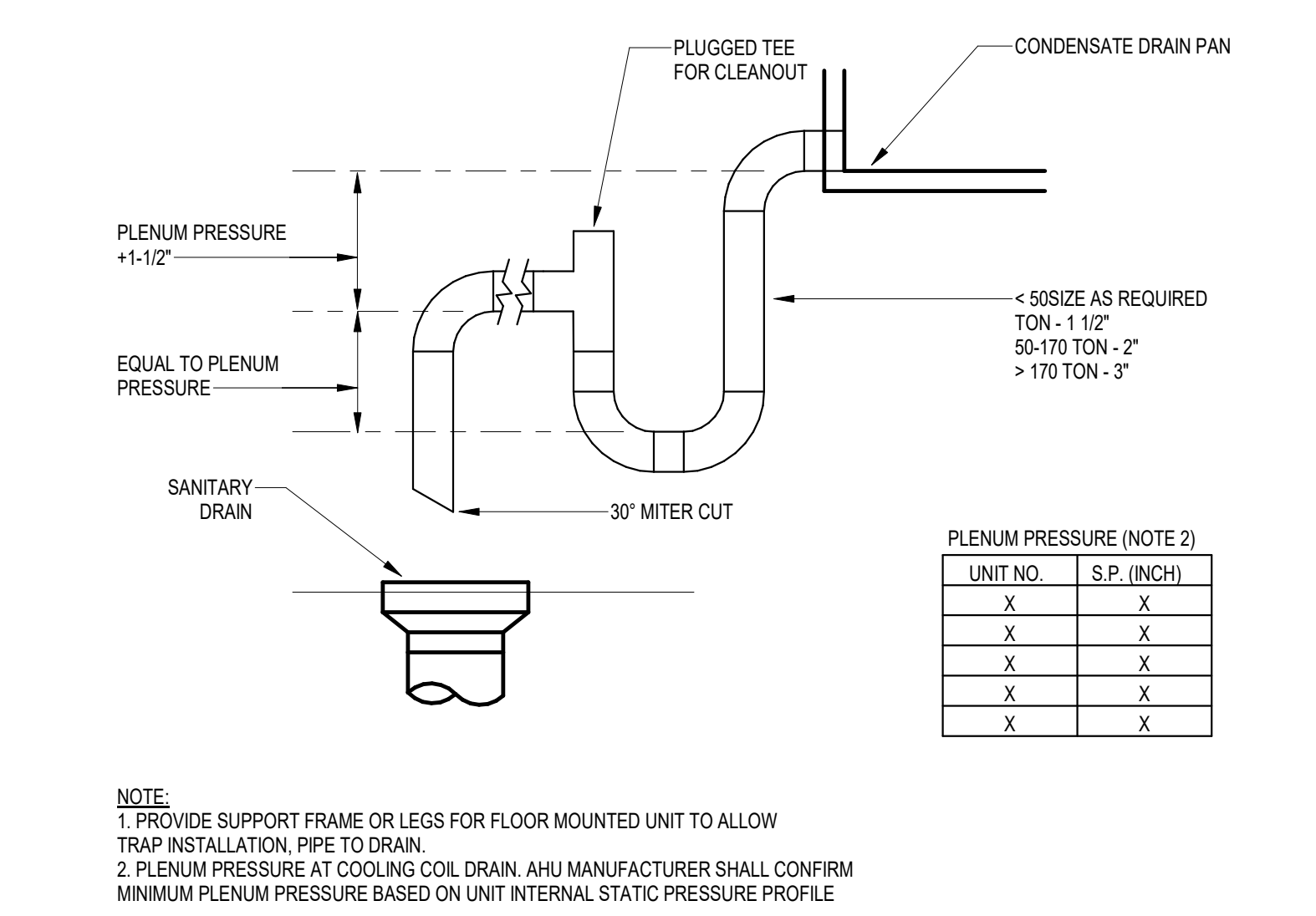
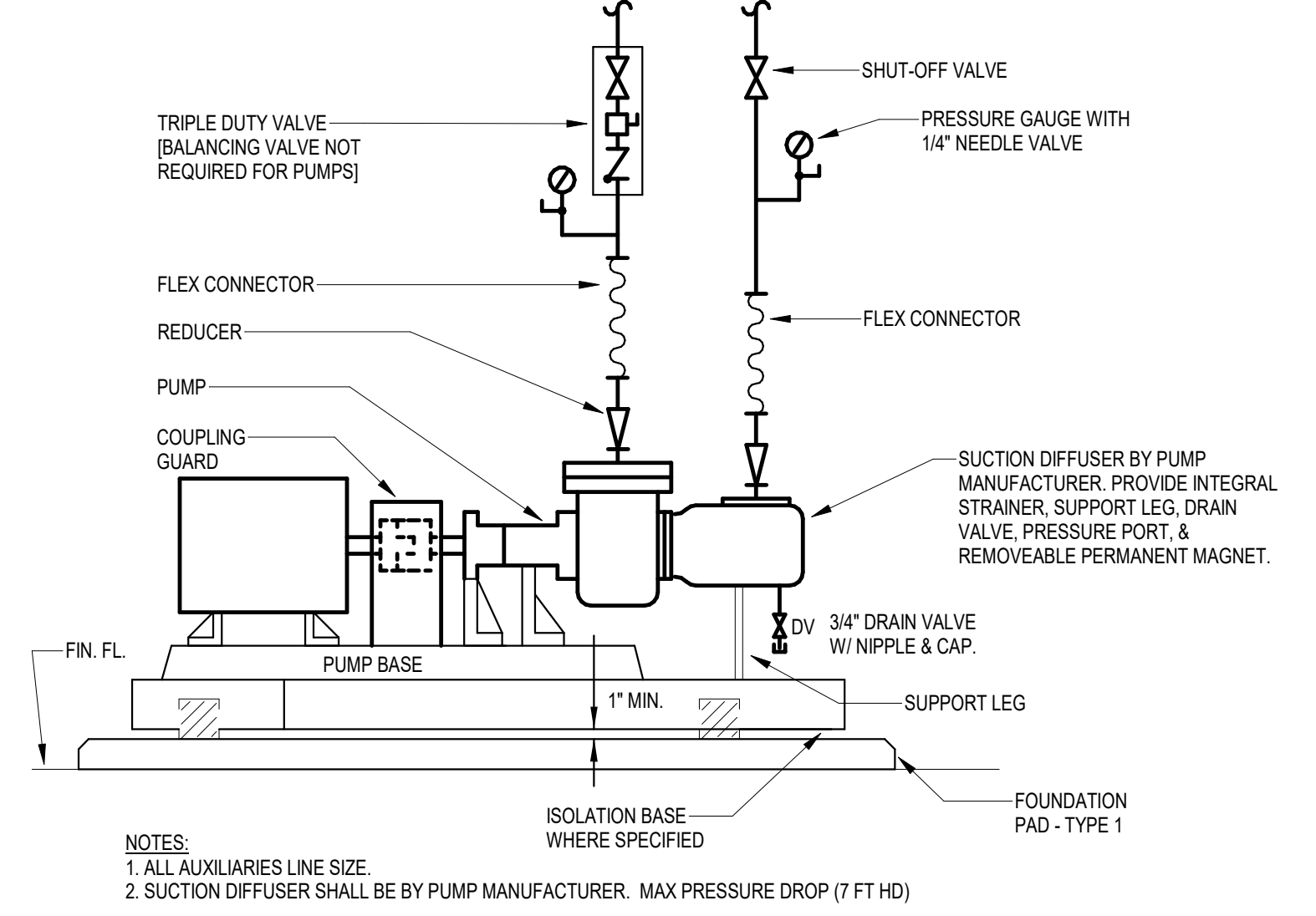
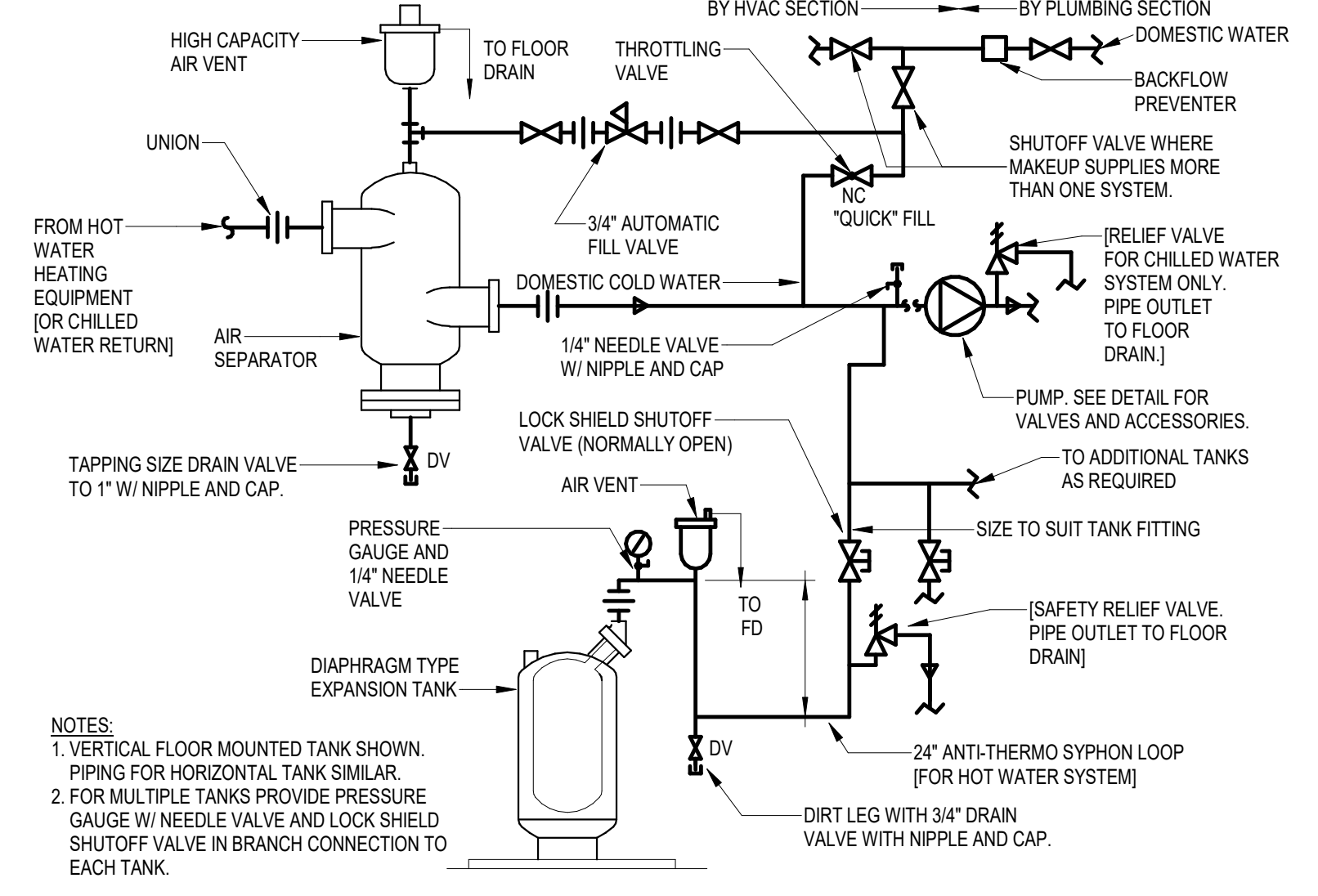
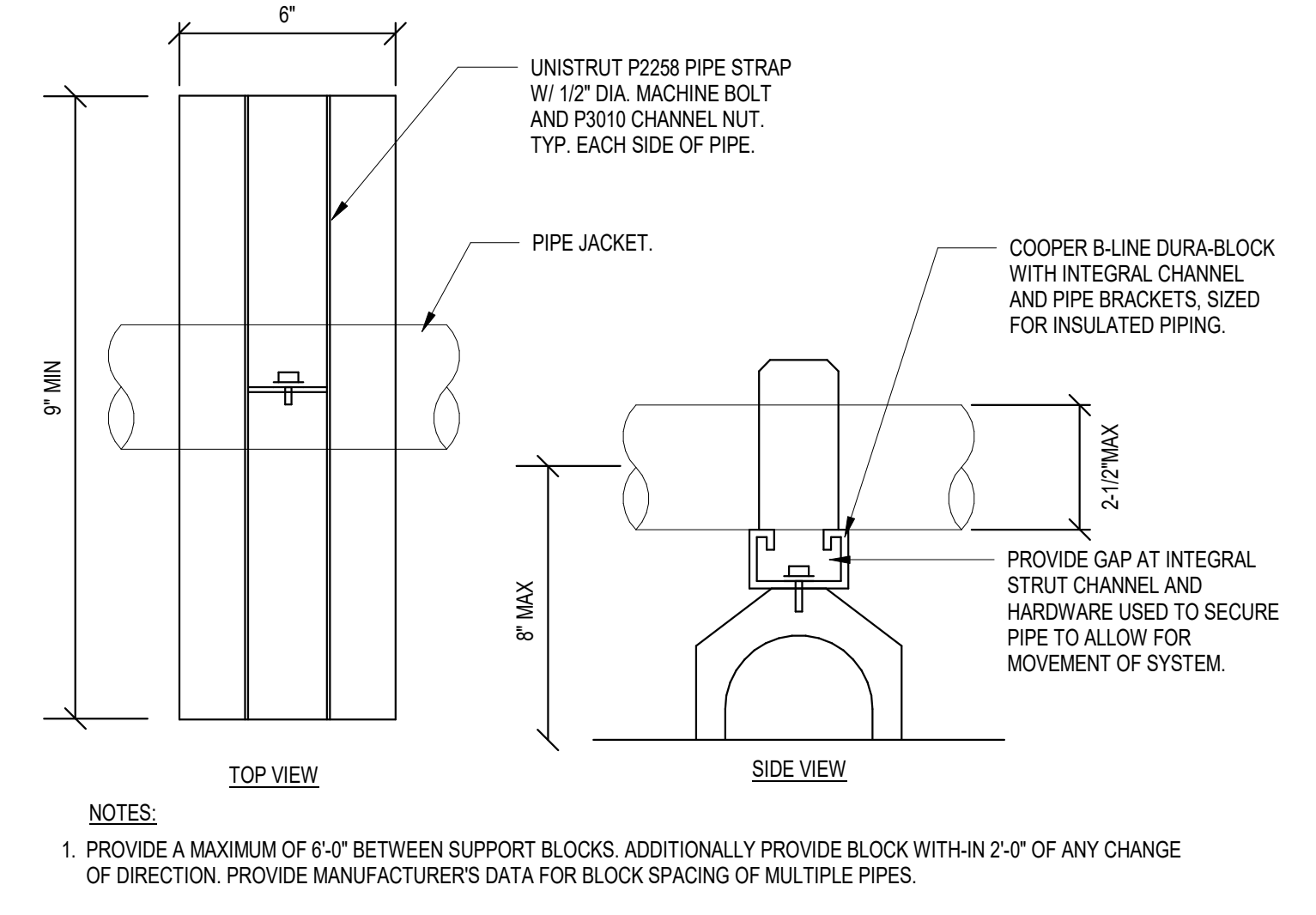
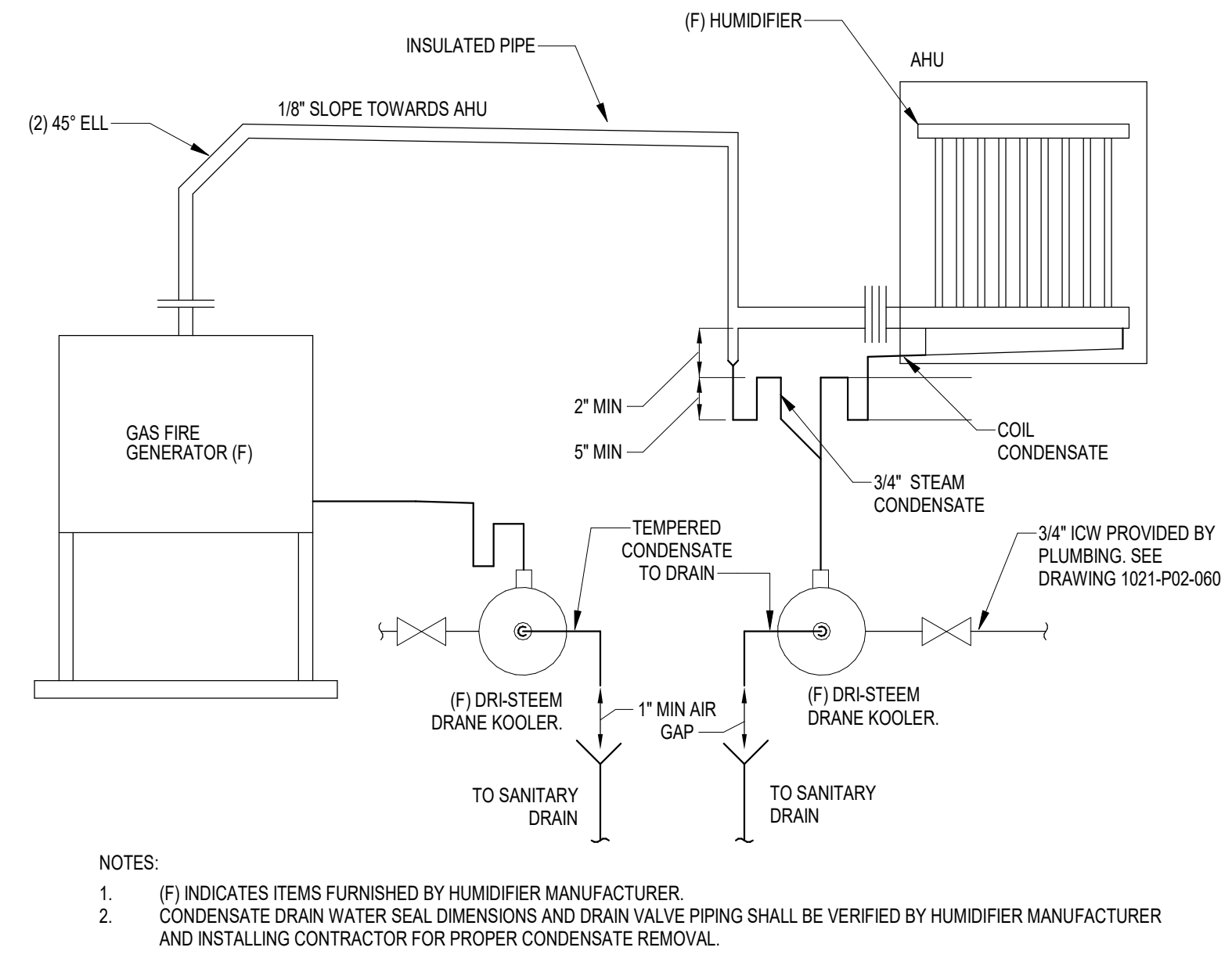
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DRAWING NAME

HVAC DETAILS - 1

FLOOR/SECTION PHASE DRAWING NO.

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CD H6.1



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HVAC DETAILS - 2
FLOOR/SECTION PHASE: _____ DRAWING NO.: H6.2

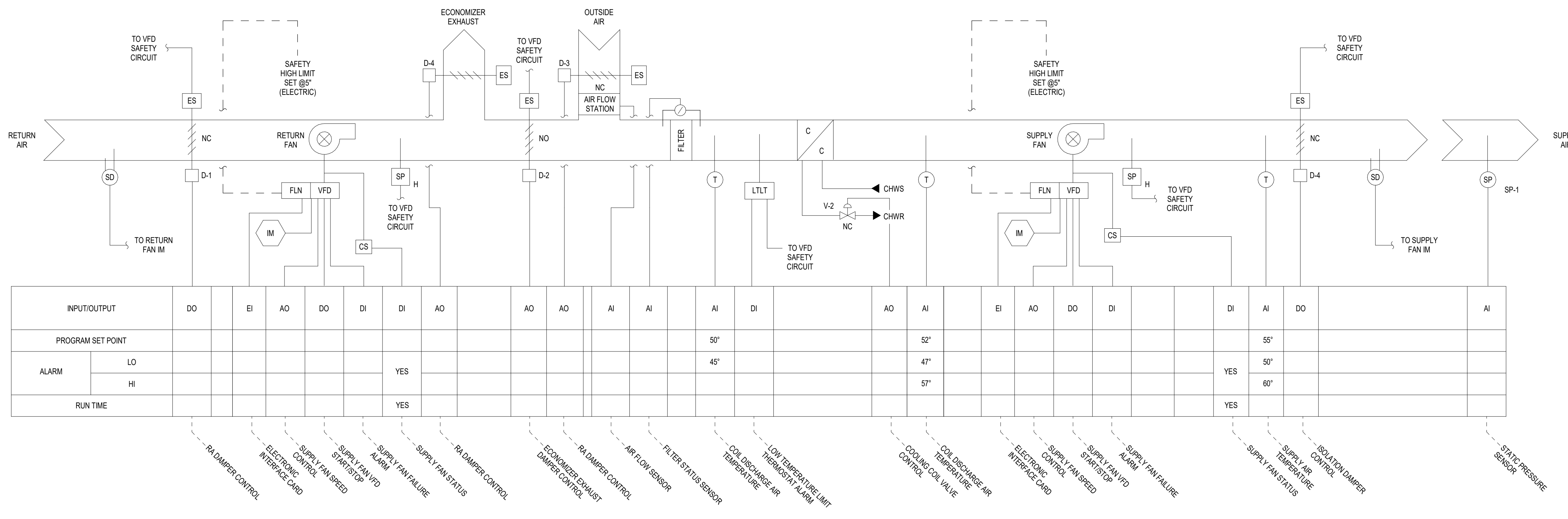


CONTROLS ABBREVIATIONS AND SYMBOLS

- AI ANALOG INPUT
- AO ANALOG OUTPUT
- BAS BUILDING AUTOMATION SYSTEM
- BDD BACKDRAFT DAMPER
- D DAMPER
- DDC DIRECT DIGITAL CONTROL
- DDCP DIRECT DIGITAL CONTROL PANEL
- DI DIGITAL INPUT
- DO DIGITAL OUTPUT
- EA EXHAUST AIR
- EI ELECTRONIC INPUT
- HI HIGH
- LAN LOCAL AREA NETWORK
- LO LOW
- MOD MOTOR OPERATED DAMPER
- NC NORMALLY CLOSED
- NO NORMALLY OPEN
- OA OUTSIDE AIR
- RA RETURN AIR
- SA SUPPLY AIR

- SYMBOL DESCRIPTION**
- CURRENT SENSOR
 - DIFFERENTIAL PRESSURE TRANSMITTER
 - END SWITCH (DAMPER)
 - FLOOR LEVEL NETWORK
 - LOW TEMPERATURE LIMIT THERMOSTAT
 - SMOKE DETECTOR
 - STATIC PRESSURE
 - TEMPERATURE SENSOR
 - VARIABLE FREQUENCY DRIVE
 - INTERFACE MODULE

5 CONTROLS ABBREVIATIONS AND SYMBOLS
SCALE: NTS

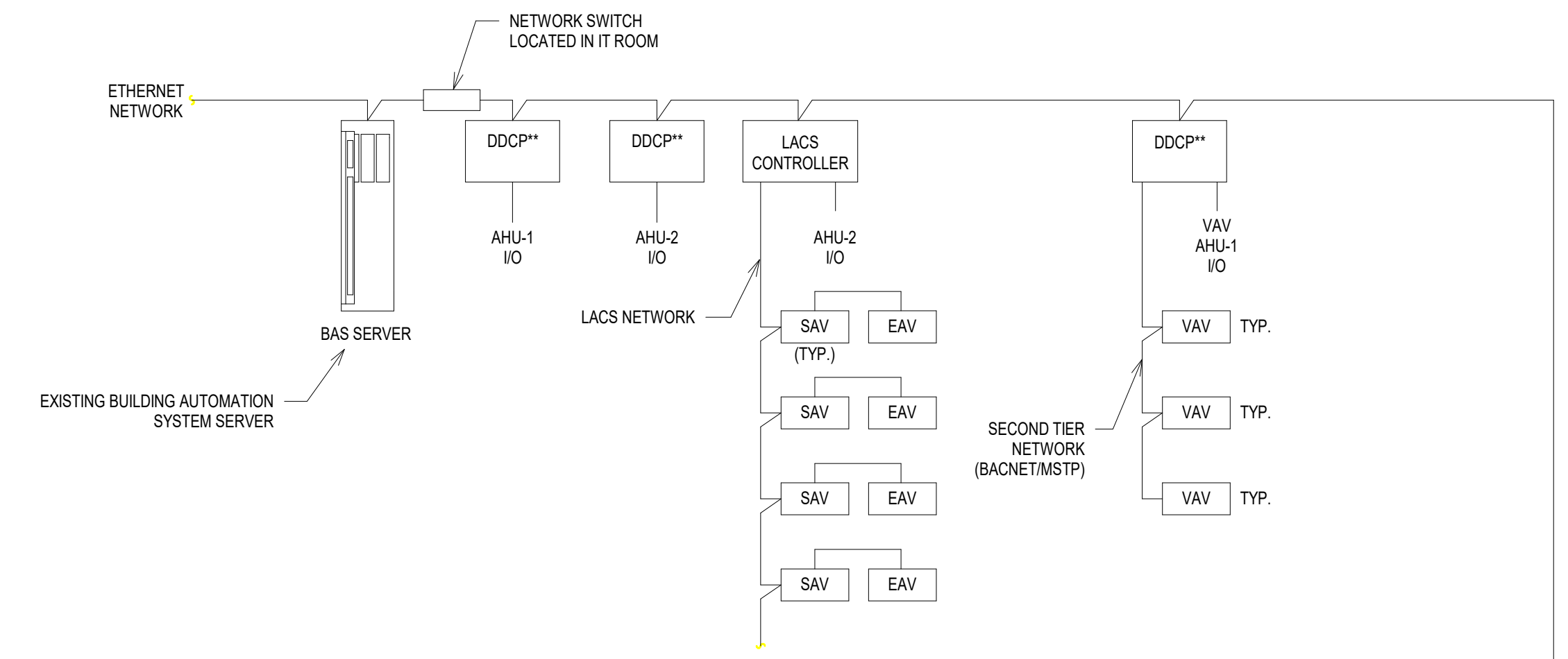


- OFFICE AIR HANDLING UNIT AHU-1**
1. GENERAL
 - A. UNIT IS RECIRCULATING WITH RETURN PLENUM FANS WITH VFDs, OUTSIDE AIR ECONOMIZER, CHILLED WATER COOLING COIL, SUPPLY PLENUM FANS WITH VFDs, FILTERS, ISOLATION DAMPERS, AND RETURN AND SUPPLY AIR SMOKE DAMPERS.
 - B. UNIT IS STARTED AND STOPPED BY THE DDC SYSTEM.
 - C. OCCUPIED AND UNOCCUPIED PERIODS SHALL BE PROGRAMMABLE THROUGH THE BMS SYSTEM.
 2. STARTUP AND SHUTDOWN
 - A. WHEN UNIT IS INDEXED TO START, UNIT ISOLATION DAMPERS SHALL OPEN, WHEN DAMPERS OPEN, END SWITCHES SHALL ENERGIZE FANS.
 - B. WHENEVER FANS ARE DEENERGIZED (MANUALLY OR AUTOMATICALLY), UNIT ISOLATION DAMPERS SHALL CLOSE.
 - C. BMS SHALL PROVIDE SLOW DRAINING SIGNAL FOR OUTSIDE AIR DAMPER TO PREVENT NUISANCE SHUTDOWNS.
 - D. WHENEVER DAMPERS CLOSE, THERE SHALL BE A TIME DELAY TO ALLOW FOR FAN SPINDOWN.
 3. FAN CONTROL
 - A. THE RETURN AND SUPPLY FANS WILL OPERATE CONTINUOUSLY WHILE AHU IS ENABLED. FAN VFD SETPOINTS SHALL BE DETERMINED DURING TAB SETUP PROCEDURE TO ACHIEVE DESIRED AIRFLOW RATES. FANS WILL BE OFF WHENEVER THE AHU IS DISABLED, OR THE RETURN OR SUPPLY DUCT SMOKE DETECTORS SENSE SMOKE, OR STATUS INDICATES A FAILURE (AFTER A TWO-MINUTE DELAY).
 - B. STATIC PRESSURE RESET CONTROL
 - a. WHEN THE SYSTEM CONTROL MODULE RECOGNIZES THAT ALL VAV BOXES ARE PARTIALLY CLOSED, THE SYSTEM SLOWS THE FANS TO LOWER STATIC PRESSURE IN THE DUCT SYSTEM UNTIL AT LEAST 1 OF THE VAV BOXES IS 100% OPEN.
 4. OUTSIDE AIR
 - A. THE OUTSIDE AIR DAMPER WILL MODULATE TO MAINTAIN MINIMUM OA FLOWRATE.
 5. OCCUPIED
 - A. A SIGNAL FROM THE BMS SHALL INDEX SYSTEM TO OCCUPIED MODE.
 - B. MORNING WARMUP MODE
 - a. DURING OPTIMAL START, IF THE AVERAGE SPACE TEMPERATURE IS BELOW THE OCCUPIED HEATING SETPOINT, A MORNING WARMUP MODE SHALL BE ACTIVATED. THE RETURN AND SUPPLY FANS SHALL BE ENABLED, THE OSA DAMPER SHALL REMAIN CLOSED.
 - b. VAV BOXES WILL MODULATE TO MAX POSITION AND REHEAT COILS WILL MODULATE OPEN TO MAINTAIN 70°F (ADJUSTABLE) SPACE TEMPERATURE.
 - c. WHEN THE AVERAGE SPACE TEMPERATURE REACHES THE OCCUPIED SETPOINT, THE UNIT SHALL TRANSITION TO OCCUPIED MODE.
 - C. AHU SHALL OPERATE CONTINUOUSLY AND MAINTAIN OCCUPIED SPACE SETPOINTS.
 - D. COOLING MODE
 - a. CHILLED WATER VALVE SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINTS.
 - b. SUPPLY AIR TEMPERATURE RESET: IF ALL SYSTEM SUPPLY AIR REHEAT COILS ARE CALLING FOR REHEAT, DDC SYSTEM SHALL RESET COOLING COIL DISCHARGE AIR TEMPERATURE UPWARDS TO THE WARMEST SUPPLY TEMPERATURE SETPOINT THAT SATISFIES ALL ZONE COOLING REQUIREMENTS TO A MAXIMUM OF 65°F (REPROGRAMMABLE).
 - E. PRESSURE
 - a. A STATIC PRESSURE SENSOR IN SUPPLY DUCT SHALL ACT AS A HIGH STATIC SWITCH TO VERIFY FAN OPERATION.
 6. UNOCCUPIED
 - A. UNOCCUPIED MODE: AHU SHALL OPERATE TO MAINTAIN UNOCCUPIED SETPOINTS.
 - B. VAV BOXES SHALL REMAIN UNDER CONTROL.

- OFFICE AIR HANDLING UNIT AHU-1 (CONTINUED)**
7. ALARMS
 - A. THE FOLLOWING ALARM CONDITIONS WILL DISABLE THE FANS AND SIGNAL THE BMS:
 - a. SUPPLY FANS FAIL TO START
 - b. RETURN FANS FAIL TO START
 - c. HIGH STATIC PRESSURE
 - d. SMOKE DETECTOR SENSES SMOKE
 - e. LOW TEMPERATURE LIMIT THERMOSTAT
 - f. HIGH FILTER DIFFERENTIAL PRESSURE (ABOVE 1.5" W.G.)
 - B. VAV BOX CONTROL
 - a. VAV BOX SHALL BE MONITORED AND CONTROLLED VIA THE BMS.
 - b. SPACE TEMPERATURE SENSOR MUST HAVE OCCUPANT OVERRIDE (SETPONT ADJUSTMENT). SPACE TEMPERATURE SETPOINTS SHALL BE AS FOLLOWS:
 1. HEATING SPACE TEMPERATURE SETPOINT: 68°F (ADJUSTABLE) LIMIT START TIME TO ONE HOUR PRIOR TO SCHEDULED OCCUPANCY.
 2. UNOCCUPIED (NO OVERRIDE)
 3. COOLING SPACE TEMPERATURE SETPOINT: 80°F (ADJUSTABLE)
 - c. THE VAV DAMPER ACTUATOR SHALL MODULATE BETWEEN MINIMUM AND MAXIMUM POSITION TO MAINTAIN SPACE TEMPERATURE SETPOINT.
 - d. WHEN THE DAMPER REACHES MINIMUM POSITION AND THE SPACE TEMPERATURE SENSOR CALLS FOR HEATING, THE REHEAT VALVE SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINT.
 - e. WHEN THE BOX'S CORRESPONDING AHU IS IN WARM-UP MODE, ALL VAV BOXES WILL HAVE THEIR ROOM TEMPERATURE SETPOINTS OVERRIDDEN TO 70°F (ADJUSTABLE).
 - C. ALARMS
 - a. ZONE, SPACE TEMPERATURE DEVIATION OF 3 (ADJUSTABLE) BELOW HEATING SETPOINTS.
 - b. SUPPLY TEMPERATURE ABOVE 110°F (ADJUSTABLE).
 9. SETPOINTS
 - A. OCCUPIED
 - a. COOLING: 72°F (ADJUSTABLE)
 - b. HEATING: 68°F (ADJUSTABLE)
 - B. UNOCCUPIED
 - a. COOLING: 80°F (ADJUSTABLE)
 - b. HEATING: 60°F (ADJUSTABLE)

- POINT LIST THROUGH VFD FLN INTERFACE MODULE TO BAS**
1. FAN VFD RUN FREQUENCY (AI)
 2. VFD DRIVE STATUS (DI)
 3. VFD SPEED CONTROL (4-20 mA AO)
 4. VFD DRIVE FAILURE ALARM (DI)

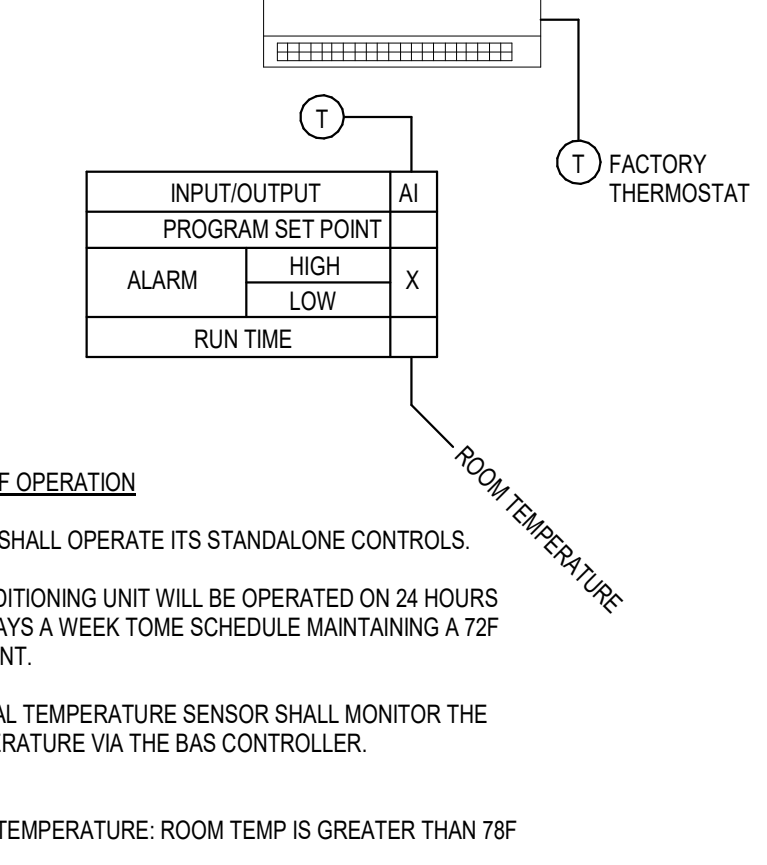
1 AHU-1 (OFFICE AREAS) CONTROL DIAGRAM
SCALE: NTS



- NOTES:**
1. DIVISION 25 TO REVIEW EXISTING CONTROLS SYSTEM TO VERIFY NEW CONTROL SYSTEM REQUIREMENTS. DIVISION 25 WILL NEED TO MEET THE FACILITY STANDARD, WHICH INCLUDES MATCHING CONTROLS MANUFACTURER IN EXISTING BUILDING SINCE NEW CONTROLS WILL NEED TO INTERFACE WITH THIS SYSTEM.
 2. PROVIDE ALL REQUIRED DEVICES FOR A COMPLETE CONTROLS SYSTEM FOR THE NEW BUILDING.
 3. PROVIDE ALL REQUIRED DEVICES TO INTERFACE WITH EQUIPMENT THAT HAS CONTROLLERS, SUCH AS THE CHILLER AND BOILER.
 4. PROVIDE ALL REQUIRED DEVICES TO INTERFACE WITH THE LABORATORY AIR CONTROL SYSTEM (LACS).
 5. VERIFY THAT CONTROLS SYSTEM CAN BE EXPANDED FOR NEW MECHANICAL EQUIPMENT IN PHASE 2.

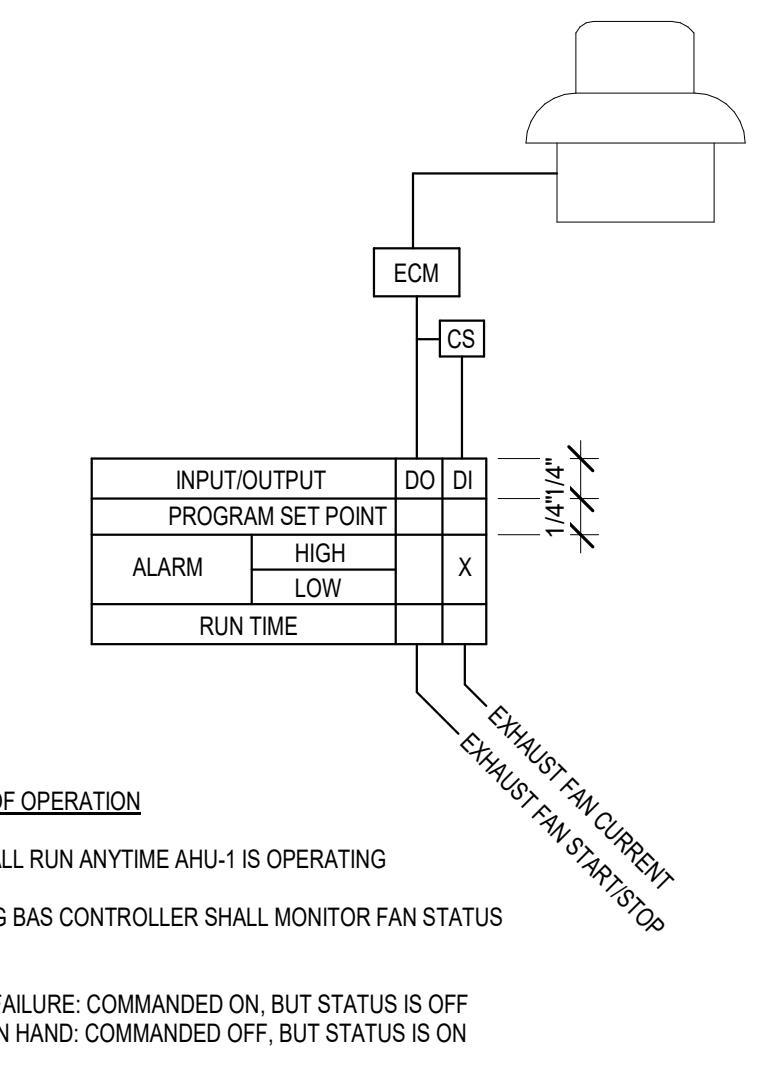
6 BUILDING AUTOMATION SYSTEM CONTROLS ARCHITECTURE
SCALE: 1/4" = 1'-0"

3 CONTROLS- DUCTLESS SPLIT-SYSTEM CONTROLS
SCALE: NTS



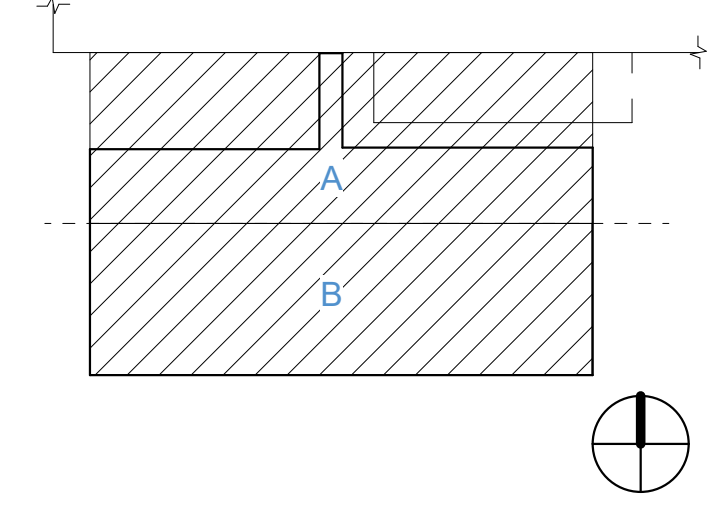
- SEQUENCE OF OPERATION**
- THE SYSTEM SHALL OPERATE ITS STANDALONE CONTROLS.
- THE AIR CONDITIONING UNIT WILL BE OPERATED ON 24 HOURS PER DAY, 7 DAYS A WEEK TOME SCHEDULE MAINTAINING A 72F (ADJ) SETPOINT.
- AN ADDITIONAL TEMPERATURE SENSOR SHALL MONITOR THE ROOM TEMPERATURE VIA THE BAS CONTROLLER.
- ALARMS:**
- HIGH TEMPERATURE: ROOM TEMP IS GREATER THAN 78F

4 CONTROLS- EXHAUST FAN CONTROLS
SCALE: 1/2" = 1'-0"



- SEQUENCE OF OPERATION**
- THE FAN SHALL RUN ANYTIME AHU-1 IS OPERATING
- THE EXISTING BAS CONTROLLER SHALL MONITOR FAN STATUS
- ALARMS:**
- FAN FAILURE: COMMANDED ON, BUT STATUS IS OFF
 - FAN IN HAND: COMMANDED OFF, BUT STATUS IS ON

KEY PLAN



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C		ISSUED FOR GC BIDDING	11.08.2024
B			10.11.2024
A		ISSUED FOR OWNER'S REVIEW	09.26.2024

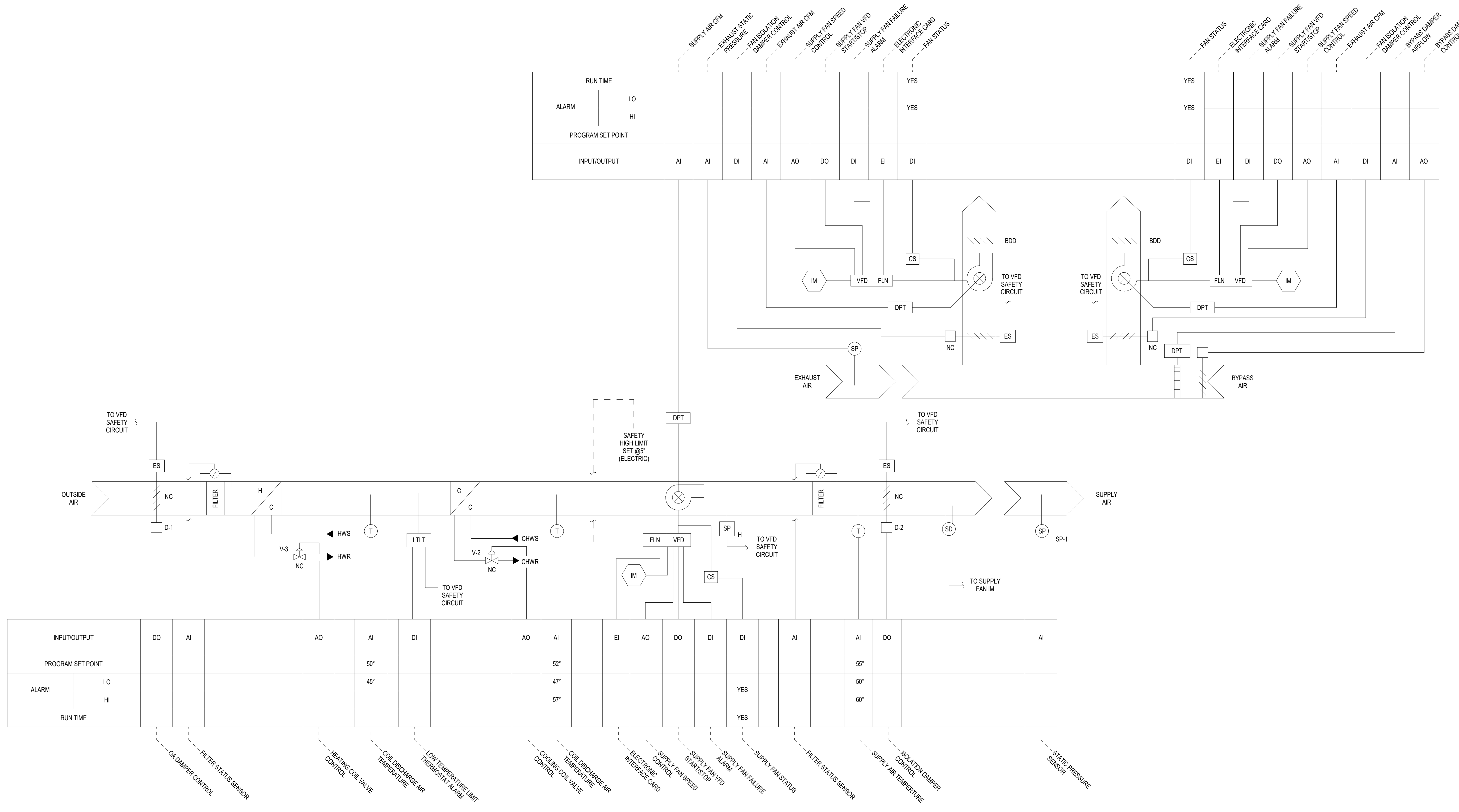
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DRAWN BY: NAP DATE: 11.08.2024

PROJECT NO: 20230523 SCALE: As indicated

DRAWING NAME: CONTROLS SHEET - 1

FLOOR/SECTION PHASE: DRAWING NO.



INPUT/OUTPUT	DO	AI	AO	AI	DI	AO	AI	EI	AO	DO	DI	DI	AI	AI	DO	AI
PROGRAM SET POINT				50°			52°								55°	
ALARM				45°			47°				YES				50°	
RUN TIME				57°							YES				60°	

BSL3 LABORATORY AIR HANDLING UNIT AHU-2 AND EXHAUST FANS EF-1,2 (TYPICAL FOR AHU-3 AND EF-3,4)

- GENERAL
 - UNIT IS 100% OUTSIDE AIR WITH CHILLED WATER COOLING COIL, SUPPLY PLENUM FANS WITH VFDs, HUMIDIFIER, FILTERS, ISOLATION DAMPERS AND SUPPLY AIR SMOKE DAMPER.
 - UNIT IS STARTED AND STOPPED BY THE DDC SYSTEM.
 - OCCUPIED AND UNOCCUPIED PERIODS SHALL BE PROGRAMMABLE THROUGH THE BMS SYSTEM.
- STARTUP AND SHUTDOWN
 - WHEN UNIT IS INDEXED TO START, UNIT ISOLATION DAMPERS SHALL OPEN, WHEN DAMPERS OPEN, END SWITCHES SHALL ENERGIZE SUPPLY FANS. INTERLOCKED EXHAUST FANS EF-1,2 SHALL BE ENERGIZED WHEN THE UNIT IS ENABLED.
 - WHENEVER SUPPLY FANS ARE DEENERGIZED MANUALLY OR AUTOMATICALLY, UNIT ISOLATION DAMPERS SHALL CLOSE.
 - WHENEVER DAMPERS CLOSE, THERE SHALL BE A TIME DELAY TO ALLOW FOR SUPPLY FAN SPINDOWN.
- FAN CONTROL
 - SUPPLY FAN
 - THE SUPPLY FANS WILL OPERATE CONTINUOUSLY WHILE AHU IS ENABLED. FAN VFD SETPOINTS SHALL BE DETERMINED DURING TAB SETUP PROCEDURE TO ACHIEVE DESIRED AIRFLOW RATES. FANS WILL BE OFF WHENEVER THE AHU IS DISABLED, OR THE SUPPLY DUCT SMOKE DETECTORS SENSE SMOKE, OR STATUS INDICATES A FAILURE (AFTER A TWO-MINUTE DELAY).
 - STATIC PRESSURE RESET CONTROL:
 - A DISCHARGE STATIC PRESSURE SENSOR LOCATED IN THE SUPPLY DUCT SHALL MODULATE VARIABLE FREQUENCY DRIVE TO MAINTAIN DUCT STATIC PRESSURE SETPOINT. A DISCHARGE HIGH LIMIT STATIC PRESSURE CONTROLLER SHALL OVERRIDE SUPPLY DUCT STATIC CONTROL AND PREVENT OVER PRESSURING OF THE SYSTEM.
 - EXHAUST FAN
 - EXHAUST FANS ARE EQUIPPED WITH VFDs, ISOLATION DAMPERS, AND AIRFLOW MEASURING SENSORS MOUNTED ON A COMMON EXHAUST/OUTSIDE AIR BYPASS PLENUM. EXHAUST FANS SHALL BE CONFIGURED SUCH THAT BOTH FANS WILL BE OPERATING AT 50% CAPACITY TO DELIVER THE TOTAL AIRFLOW REQUIRED. EACH EXHAUST FAN SHALL HAVE AN AIRFLOW MEASURING SENSOR LOCATED IN THE FAN INLET FOR THE PURPOSES OF MEASURING AIRFLOW AND CALCULATING EXHAUST FAN DISCHARGE VELOCITY. WHEN THE EXHAUST FANS ARE ENABLED, THE DDC SYSTEM SHALL ENERGIZE THE EXHAUST FANS AND MODULATE THE VFDs AND BYPASS DAMPERS TO MAINTAIN EXHAUST DUCT STATIC PRESSURE SETPOINT.
 - UPON FAILURE OF AN EXHAUST FAN, THAT FAN'S ISOLATION DAMPER SHALL CLOSE AND REMAINING EXHAUST FAN VFD SHALL SPEED UP TO MAINTAIN STATIC PRESSURE SETPOINT.
 - WHEN THE EXHAUST SYSTEM IS ENABLED, THE EXHAUST FAN ISOLATION DAMPERS SHALL OPEN AND WHEN END SWITCH IS MADE, EXHAUST FANS SHALL BE ENERGIZED. AS THE EXHAUST DUCT STATIC PRESSURE DEVIATES FROM SETPOINT, THE SYSTEM CONTROLLER SHALL SEND AN ANALOG SIGNAL TO THE VFDs TO SPEED UP OR SLOW DOWN THE EXHAUST FANS IN PARALLEL. THE EXHAUST FAN OUTSIDE AIR BYPASS DAMPERS SHALL BE CLOSED.
 - UPON A RISE IN EXHAUST DUCT STATIC PRESSURE, FIRST MODULATE THE EXHAUST FANS TO MINIMUM SPEED. THE MINIMUM SPEED OF THE EXHAUST FAN SHALL BE PROGRAMMED TO MAINTAIN A MINIMUM STACK VELOCITY OF 3,000 FPM. UPON A CONTINUED RISE IN EXHAUST DUCT STATIC PRESSURE, THE EXHAUST FAN OUTSIDE AIR BYPASS DAMPERS SHALL BE MODULATED OPEN.
- OCCUPIED
 - A SIGNAL FROM THE BMS SHALL INDEX SYSTEM TO OCCUPIED MODE. AHU SHALL OPERATE CONTINUOUSLY AND MAINTAIN OCCUPIED SPACE SETPOINTS.
 - COOLING MODE
 - CHILLED WATER VALVE SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINTS.
 - SUPPLY AIR TEMPERATURE RESET: IF ALL SYSTEM SUPPLY AIR REHEAT COILS ARE CALLING FOR REHEAT, DDC SYSTEM SHALL RESET COOLING COIL DISCHARGE AIR TEMPERATURE UPWARDS TO THE WARMEST SUPPLY TEMPERATURE SETPOINT THAT SATISFIES ALL ZONE COOLING REQUIREMENTS TO A MAXIMUM OF 65°F (REPROGRAMMABLE).
 - HUMIDITY
 - SUPPLY AIR HUMIDITY SENSOR THROUGH DDC SYSTEM SHALL MODULATE HUMIDIFIER VALVE TO MAINTAIN 50% RELATIVE HUMIDITY. WHEN FANS ARE DEENERGIZED, HUMIDIFIER VALVE SHALL BE CLOSED.
 - PRESSURE
 - A DISCHARGE STATIC PRESSURE SENSOR LOCATED IN THE SUPPLY DUCT SHALL MODULATE VARIABLE FREQUENCY DRIVE TO MAINTAIN DUCT STATIC PRESSURE SETPOINT. A DISCHARGE HIGH LIMIT STATIC PRESSURE CONTROLLER SHALL OVERRIDE SUPPLY DUCT STATIC CONTROL AND PREVENT OVER PRESSURING OF THE SYSTEM.
 - AN ELECTRIC SAFETY HIGH LIMIT PRESSURE SWITCH SHALL DEENERGIZE THE SUPPLY FAN THROUGH THE VFD SAFETY CIRCUIT IF ITS SETTING IS EXCEEDED.
 - AN EXHAUST DUCT STATIC PRESSURE SENSOR SHALL MODULATE THE EXHAUST FANS VARIABLE SPEED DRIVES TO MAINTAIN DUCT STATIC PRESSURE SETPOINT.
- UNOCCUPIED
 - AHU SHALL OPERATE TO MAINTAIN UNOCCUPIED SPACE SETPOINTS.
 - LABORATORY AIR VOLUME CONTROL VALVES SHALL REMAIN UNDER CONTROL.
- ALARMS
 - THE FOLLOWING ALARM CONDITIONS WILL DISABLE THE FANS AND SIGNAL THE BMS.
 - SUPPLY FANS FAIL TO START
 - EXHAUST FANS FAIL TO START
 - HIGH STATIC PRESSURE
 - SMOKE DETECTOR SENSES SMOKE
 - LOW TEMPERATURE LIMIT THERMOSTAT
 - HIGH FILTER DIFFERENTIAL PRESSURE (ABOVE 1.5" W.G.)

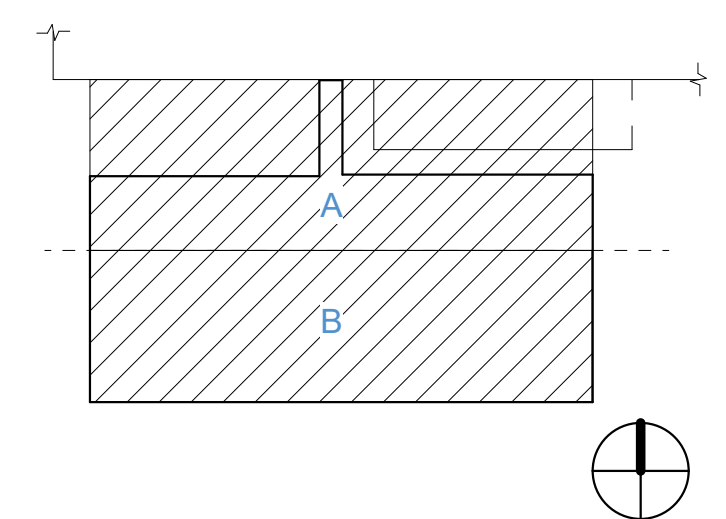
BSL3 LABORATORY AIR HANDLING UNIT AHU-2 AND EXHAUST FANS EF-1,2 (TYPICAL FOR AHU-3 AND EF-3,4) (CONTINUED)

- LABORATORY AIR VOLUME CONTROL VALVES
 - GENERAL
 - LABORATORY MODULES ARE EQUIPPED WITH A SUPPLY AIR CONTROL VALVE AND GENERAL EXHAUST AIR CONTROL VALVE. AIR FLOW CONTROL IS BASED ON VARIABLE VOLUME WITH SUPPLY AND EXHAUST AIR TRACKING CONTROLS (VARIABLE AIR VOLUME WITH SUPPLY AND EXHAUST TRACKING CONTROLS FOR PHASE 2).
 - LABORATORY AIRFLOW CONTROL SYSTEM IS SPECIFIED IN SECTION 23 09 13. THE BAS SYSTEM SHALL INTERFACE WITH LABORATORY AIRFLOW CONTROL SYSTEM. COORDINATE WITH REQUIREMENTS SPECIFIED IN SECTION 23 09 13.
 - OCCUPIED
 - TEMPERATURE: UPON A FALL IN SPACE TEMPERATURE, THE SUPPLY AIR CONTROLLER SHALL BE MODULATED TO THE OCCUPIED MINIMUM POSITION. UPON A CONTINUED FALL IN SPACE TEMPERATURE, THE REHEAT COIL CONTROL VALVE SHALL BE MODULATED OPEN. UPON A RISE IN SPACE TEMPERATURE, THE REHEAT CONTROL VALVE SHALL BE CLOSED.
 - AIRFLOW: THE SUPPLY AND EXHAUST AIRFLOW SHALL BE MEASURED. A FUME HOOD FACE VELOCITY SENSOR SHALL MODULATE THE FUME HOOD EXHAUST AIR CONTROLLER TO MAINTAIN CONSTANT SASH FACE VELOCITY OF 100 FPM. THE GENERAL EXHAUST AIR CONTROLLER SHALL BE MODULATED TO MAINTAIN A TOTAL VOLUMETRIC OFFSET BETWEEN SUPPLY AIR AND EXHAUST AIR WITHIN THE LAB MODULE.
 - UNOCCUPIED
 - SAME AS OCCUPIED CONTROL EXCEPT SUPPLY AIR CONTROLLER SHALL BE MODULATED TO THE UNOCCUPIED MINIMUM POSITION.
 - ALARMS SIGNALS SHALL BE AUTOMATICALLY INDEXED TO LOWER CONTROL POINTS.
- SETPOINTS
 - OCCUPIED
 - COOLING: 72°F (ADJUSTABLE)
 - HEATING: 68°F (ADJUSTABLE)
 - UNOCCUPIED
 - COOLING: 80°F (ADJUSTABLE)
 - HEATING: 60°F (ADJUSTABLE)

POINT LIST THROUGH VFD FLN INTERFACE MODULE TO BAS

1.	FAN VFD RUN FREQUENCY (AI)
2.	VFD DRIVE STATUS (DI)
3.	VFD SPEED CONTROL (4-20 mA AO)
4.	VFD DRIVE FAILURE ALARM (DI)

KEY PLAN



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A	ISSUED FOR OWNER'S REVIEW	09.26.2024

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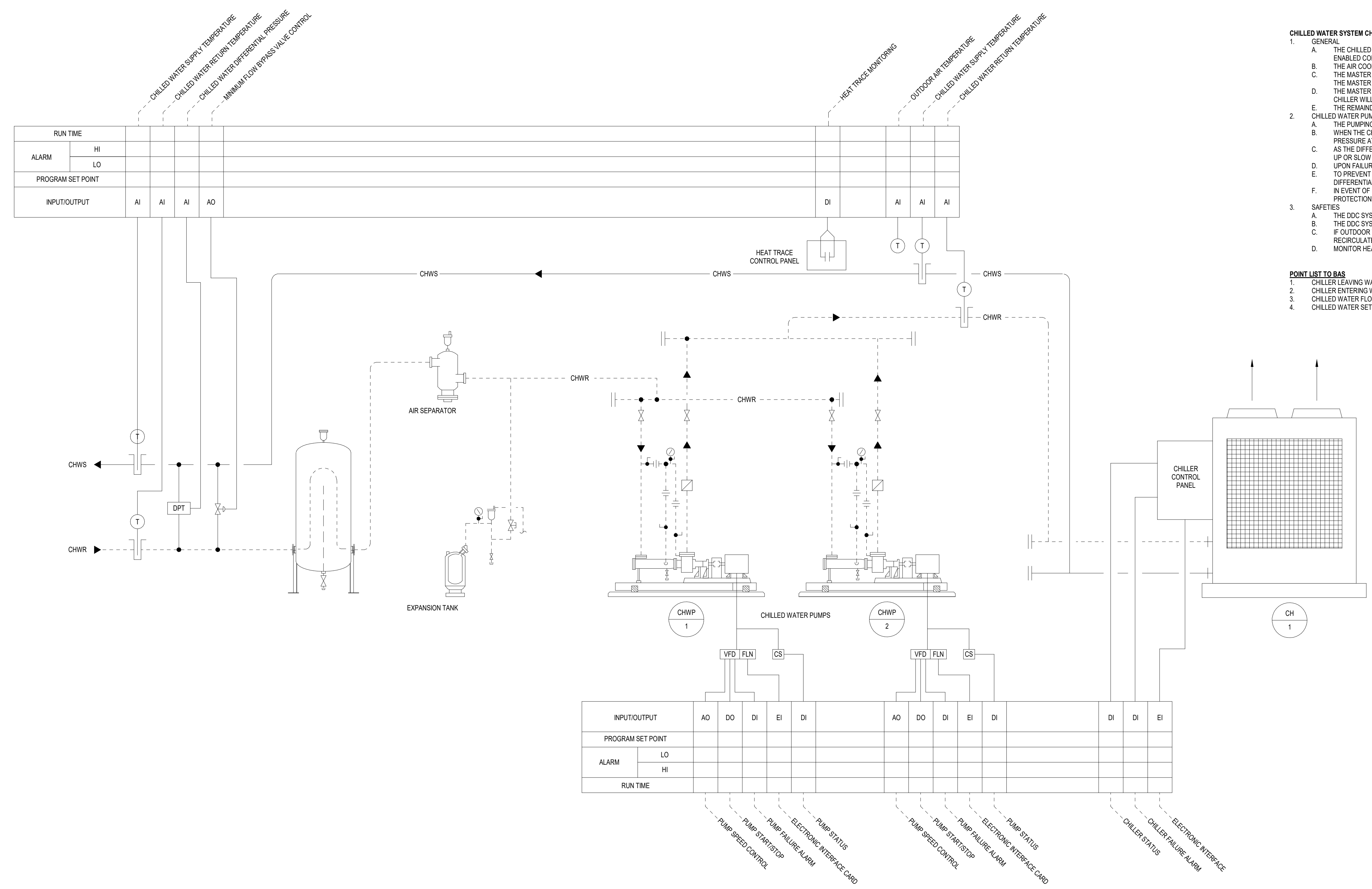
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PROJECT NO.: 20230523 SCALE: NTS
DRAWING NAME: CONTROLS SHEET - 2

FLOOR/SECTION PHASE: DRAWING NO.:
CD H7.2

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11/11/2024 6:53:21 AM Autodesk Docs://20230523 - South Nevada Health District MLK BSL-3 LAB/20230523_MJ2_CENTRAL.rvt

1 AHU-2 (BSL3 LABS) & AHU-3 (BSL2 LABS) CONTROLS DIAGRAM
SCALE: NTS

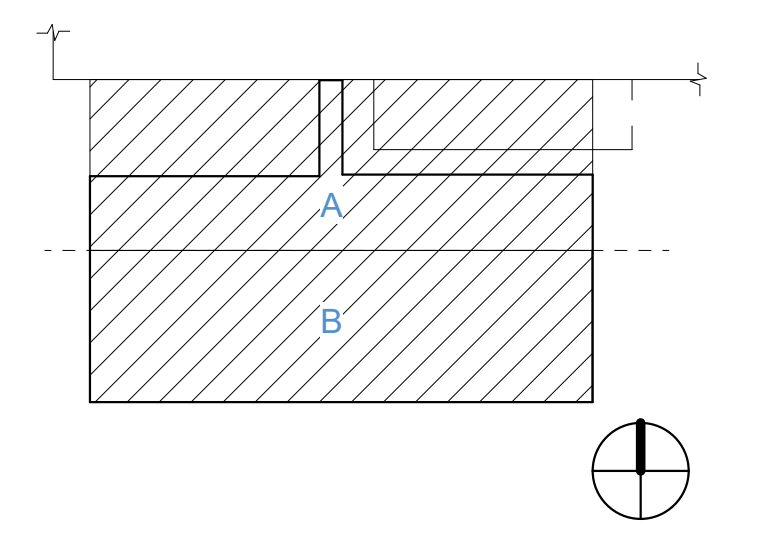


- CHILLED WATER SYSTEM CH-1**
- GENERAL
 - THE CHILLED WATER SYSTEM CONSISTS OF A MODULAR AIR COOLED CHILLER, CHILLED WATER PUMPS WITH VFDs, AND A MODULATING BYPASS. SYSTEM SHALL BE ENABLED CONTINUOUSLY.
 - THE AIR COOLED CHILLER SHALL BE PROVIDED WITH INTEGRAL CONTROLS. THE DDC SYSTEM SHALL ENABLE/DISABLE, AND MONITOR STATUS OF THE CHILLER.
 - THE MASTER CONTROLLER OPERATES THE REFRIGERATION CIRCUITS BASED ON THE INPUTS FROM ITS INTEGRATED CHILLER WATER SENSORS. EVERY 24 HOURS THE MASTER CONTROLLER WILL ALTERNATE THE LEAD COMPRESSOR.
 - THE MASTER CONTROLLER UTILIZES RETURN WATER TEMPERATURE CONTROL, BASED ON THE SETPOINTS AND HTE RETURN WATER TEMPERATURE OF THE SYSTEM, CHILLER WILL ENABLE AND DISABLE REFRIGERANT CIRCUITS TO MEET THE SYSTEM LOAD.
 - THE REMAINDER OF THE CHILLED WATER SYSTEM SHALL BE CONTROLLED BY THE DDC SYSTEM.
 - CHILLED WATER PUMPS (CHWP-1,2)
 - THE PUMPING SYSTEM CONSISTS OF TWO PUMPS WITH VARIABLE FREQUENCY DRIVES (VFDs).
 - WHEN THE CHILLER IS ENABLED, THE DDC SYSTEM SHALL ENERGIZE THE PUMPS AND MODULATE THE VFDs TO MAINTAIN CHILLED WATER SYSTEM DIFFERENTIAL PRESSURE AT A REPROGRAMMABLE SETPOINT.
 - AS THE DIFFERENTIAL PRESSURE DEVIATES FROM SETPOINT, THE SYSTEM CONTROLLER SHALL SEND THE APPROPRIATE ANALOG SIGNAL TO THE VFDs TO SPEED UP OR SLOW DOWN THE PUMP MOTORS.
 - UPON FAILURE OF EITHER PUMP, THE OPERATING PUMP SHALL AUTOMATICALLY SPEED UP TO ACHIEVE SYSTEM DIFFERENTIAL.
 - TO PREVENT PUMPS FROM OVERHEATING, THE BAS SHALL LIMIT THE PUMP SPEED THROUGH THE MINIMUM OUTPUT TO THE VFD. IN THE EVENT THE SYSTEM DIFFERENTIAL CONTINUES TO RISE, THE BAS SHALL MODULATE THE SYSTEM BYPASS VALVE OPEN.
 - IN EVENT OF FAILURE TO RECEIVE THE ZONE SYSTEM VARIABLE SIGNAL, VFD SHALL MAINTAIN 50% SPEED, UNLESS OTHERWISE REQUIRED FOR END OF CURVE PROTECTION. RESET SHALL BE AUTOMATIC UPON CORRECTION OF THE FAILURE.
 - SAFETIES
 - THE DDC SYSTEM SHALL MONITOR VFD ALARMS AND PUMP STATUS.
 - THE DDC SYSTEM SHALL MONITOR CHILLER ALARMS.
 - IF OUTDOOR TEMPERATURE IS BELOW 38 F (ADJUSTABLE) AND CHILLER IS NOT RUNNING, THEN THE BYPASS SHALL OPEN AND PUMP SHALL OPERATE TO RECIRCULATE CHILLED WATER.
 - MONITOR HEAT TRACE CONTROLLER STATUS.

- POINT LIST TO BAS**
- CHILLER LEAVING WATER TEMPERATURE (AI)
 - CHILLER ENTERING WATER TEMPERATURE (AI)
 - CHILLED WATER FLOW (DI)
 - CHILLED WATER SETPOINT (AO)

3 CH-1 CHILLED WATER CONTROL DIAGRAM
SCALE: NTS

KEY PLAN



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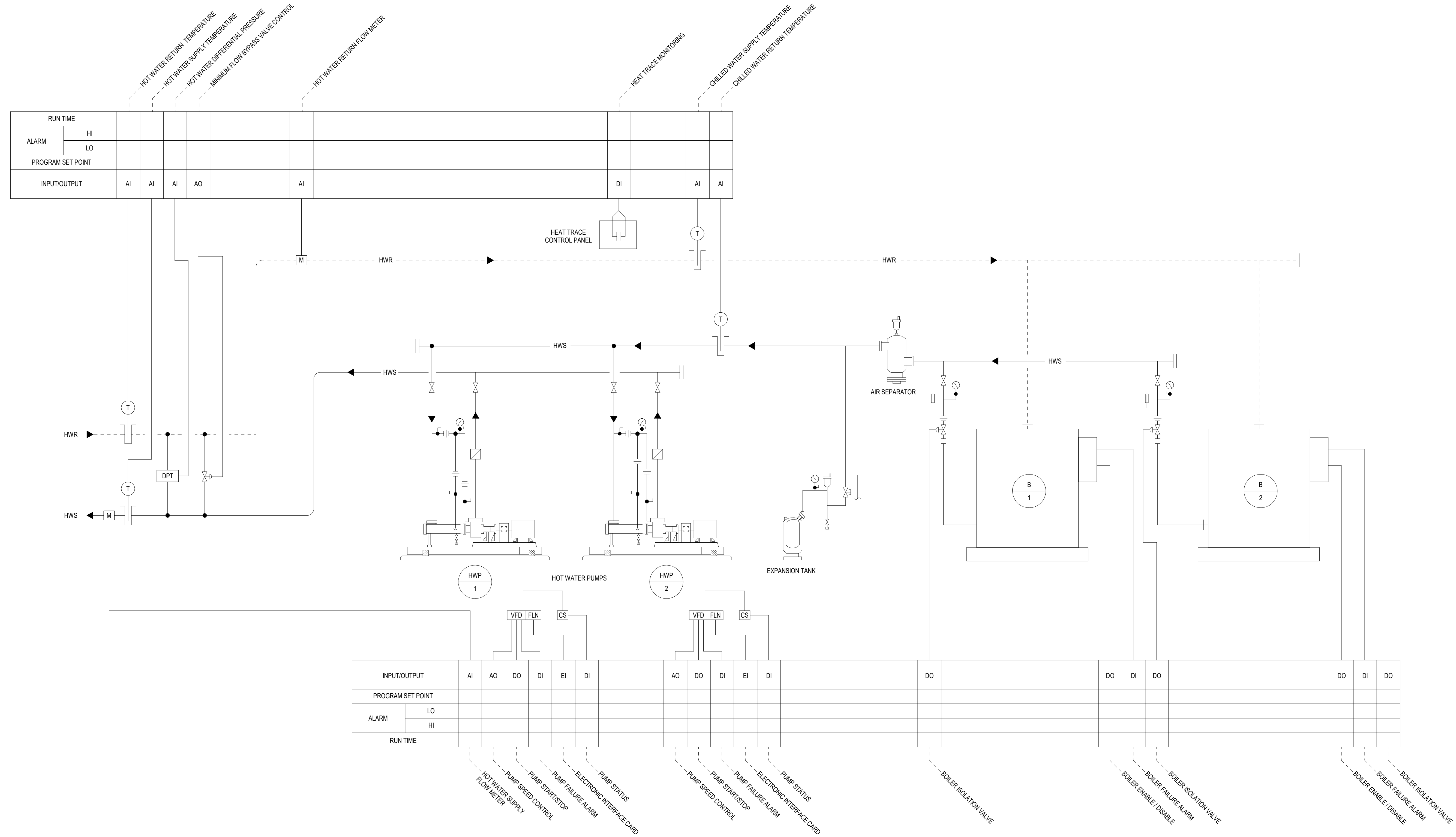
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B			10.11.2024
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CONTROLS SHEET - 3
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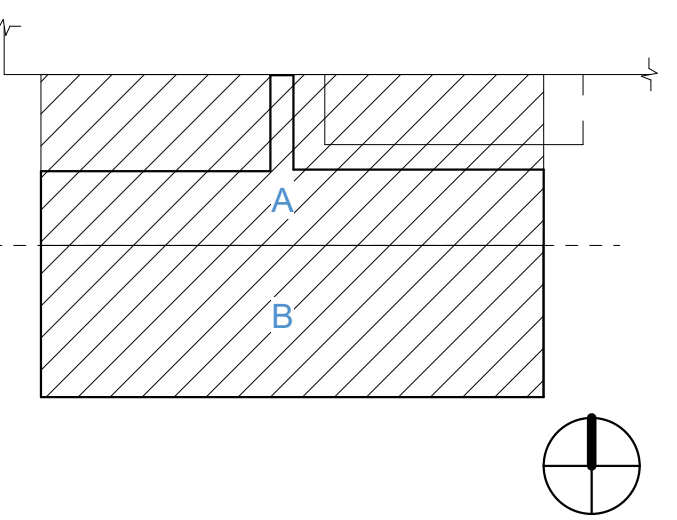
HOT WATER SYSTEM

- GENERAL
 - THE BOILER PLANT CONSISTS OF TWO (2) CONDENSING TYPE HOT WATER BOILERS IN A LEAD-LAG ARRANGEMENT WITH TWO (2) VARIABLE SPEED PUMPS.
 - THE HEATING WATER SYSTEM IS CONFIGURED IN A VARIABLE PRIMARY PUMPING ARRANGEMENT.
 - BOILER MANUFACTURER IS PROVIDING ALL BOILER, PUMP AND VALVE CONTROLS.
 - BOILER CONTROLLER WILL OPERATE THE HOT WATER SYSTEM BUT THE SYSTEM CAN BE STARTED AND STOPPED THROUGH THE DDC SYSTEM.
 - PROVIDE COMMUNICATION INTERFACE BETWEEN BOILER PLANT CONTROLS FURNISHED WITH THE BOILER PACKAGE AND THE BAS NETWORK. COORDINATE MAPPING OF ALL POINTS FROM THE BOILER SYSTEM TO THE BAS FOR REMOTE MONITORING AND SETPOINT ADJUSTMENTS.
 - HOT WATER SUPPLY AND RETURN TEMPERATURE SENSORS, THROUGH THE DDC SYSTEM, SHALL MONITOR THE HOT WATER SUPPLY TEMPERATURE.
 - HOT WATER PUMP VARIABLE FREQUENCY DRIVE(S) SHALL MAINTAIN PRESSURE DIFFERENTIAL AT THE END OF THE WATER LOOP.
 - ALL HOT WATER PIPING LOCATED OUTDOORS WILL BE ELECTRICALLY HEAT TRACED. MONITOR HEAT TRACE THROUGH OUTPUT CONTACTS IN THE HEAT TRACE CONTROLLER TO THE BAS.

POINT LIST TO BAS

- BOILER LEAVING WATER TEMPERATURE (AI)
- BOILER ENTERING WATER TEMPERATURE (AI)
- BOILER WATER FLOW (AI)
- BOILER WATER SETPOINT (AO)

KEY PLAN



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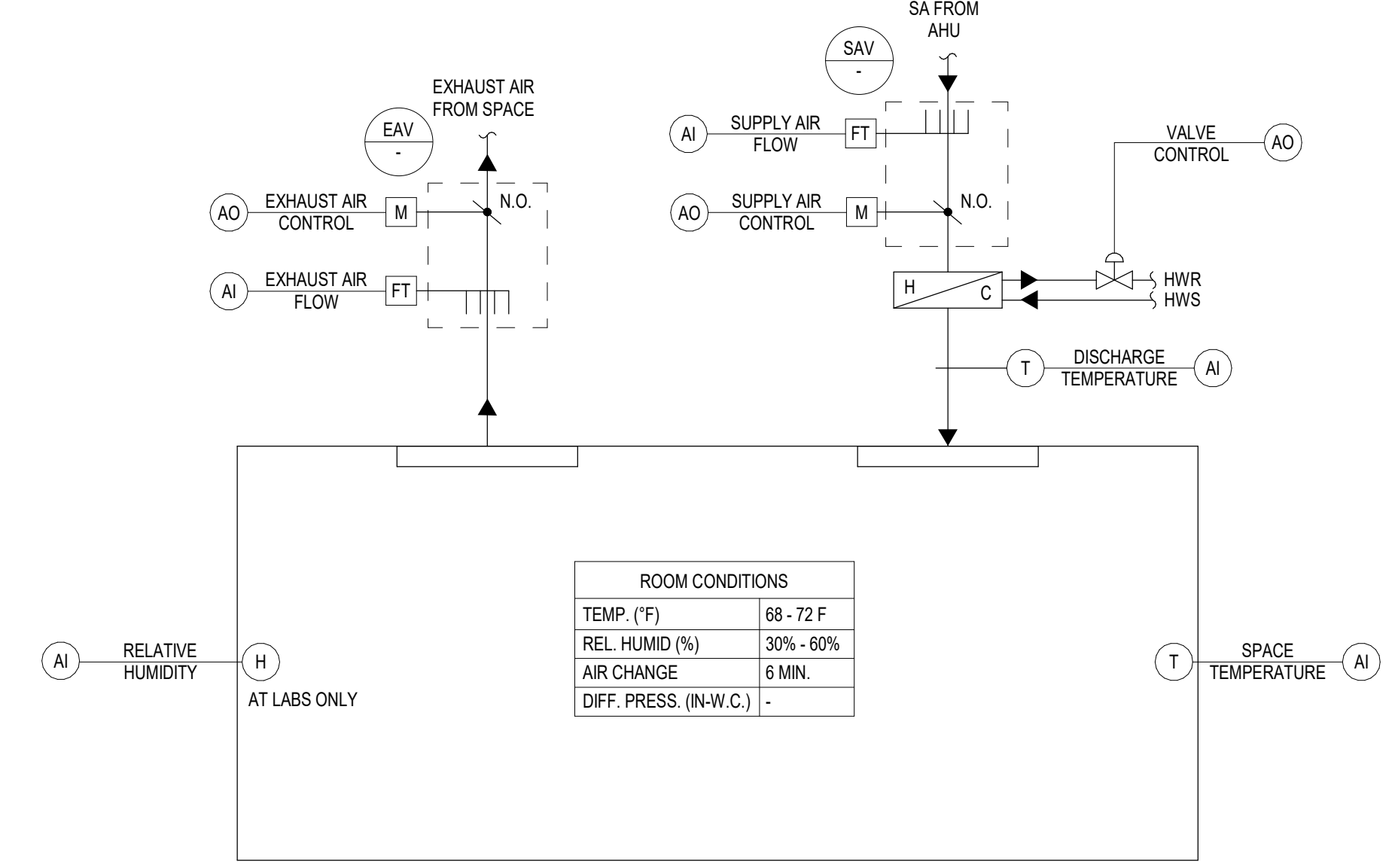
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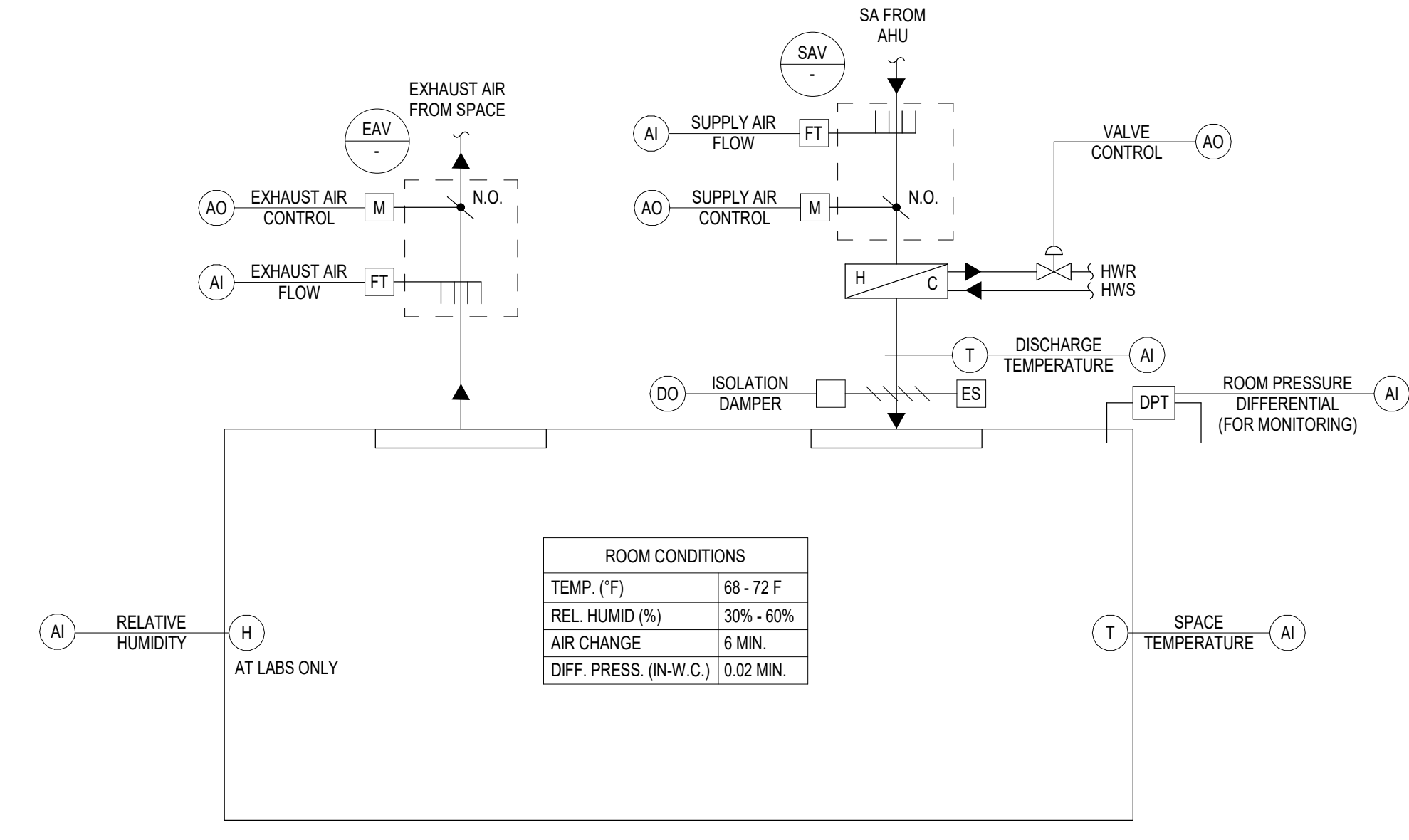
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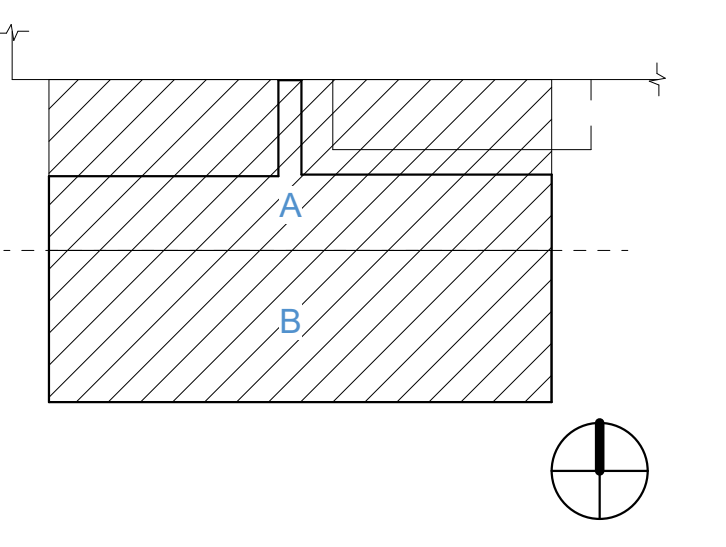


3 ROOM CONTROL SCHEME TYPICAL FOR BSL-2 LABORATORY AREAS
SCALE: NTS



2 ROOM CONTROL SCHEME TYPICAL FOR BSL-3 LABORATORY AREAS
SCALE: NTS

KEY PLAN



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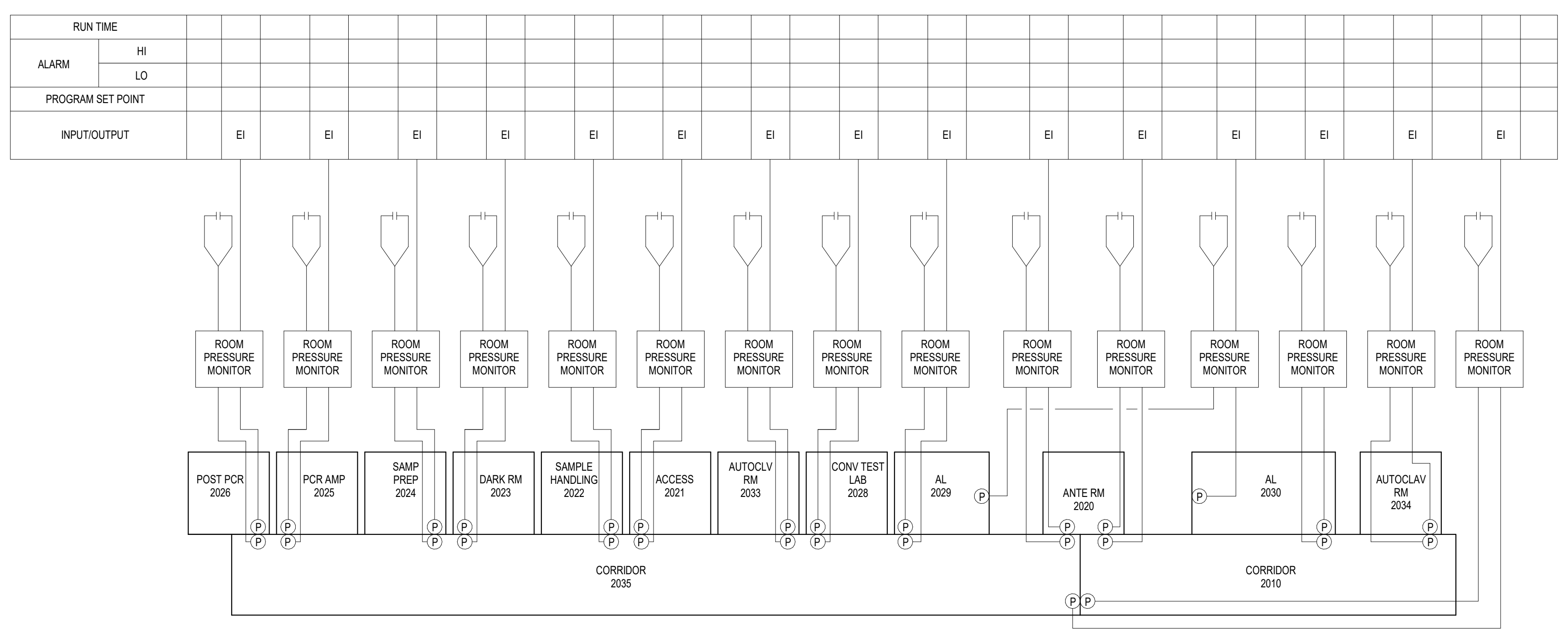
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PROJECT NO. 20230523 SCALE NTS

DRAWING NAME
CONTROLS SHEET - 5

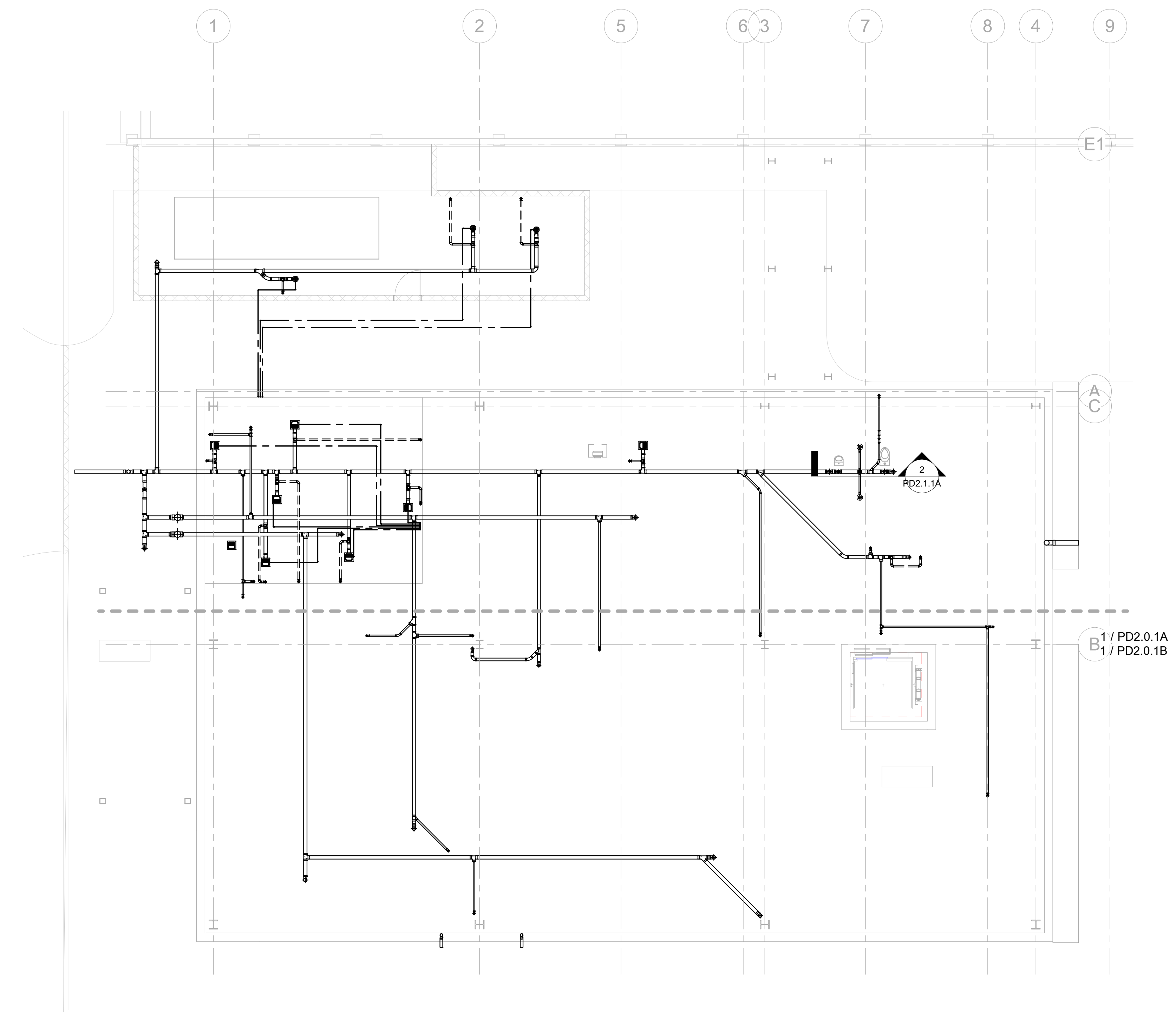
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1 DIFFERENTIAL PRESSURE CONTROL DIAGRAM
SCALE: 1/2" = 1'-0"

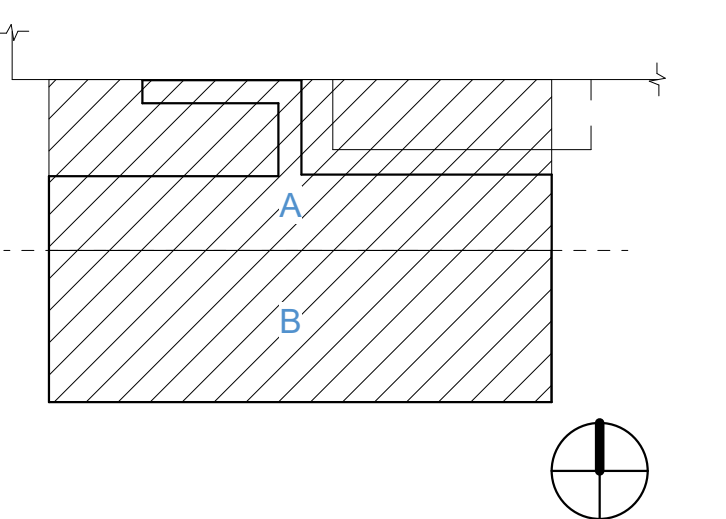
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1 UNDERGROUND - DRAINAGE REFERENCE PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN

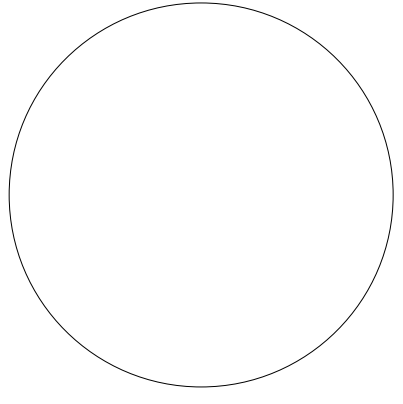


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B		DESIGN DEVELOPMENT	05.24.2024
A		50% DD SET	05.10.24

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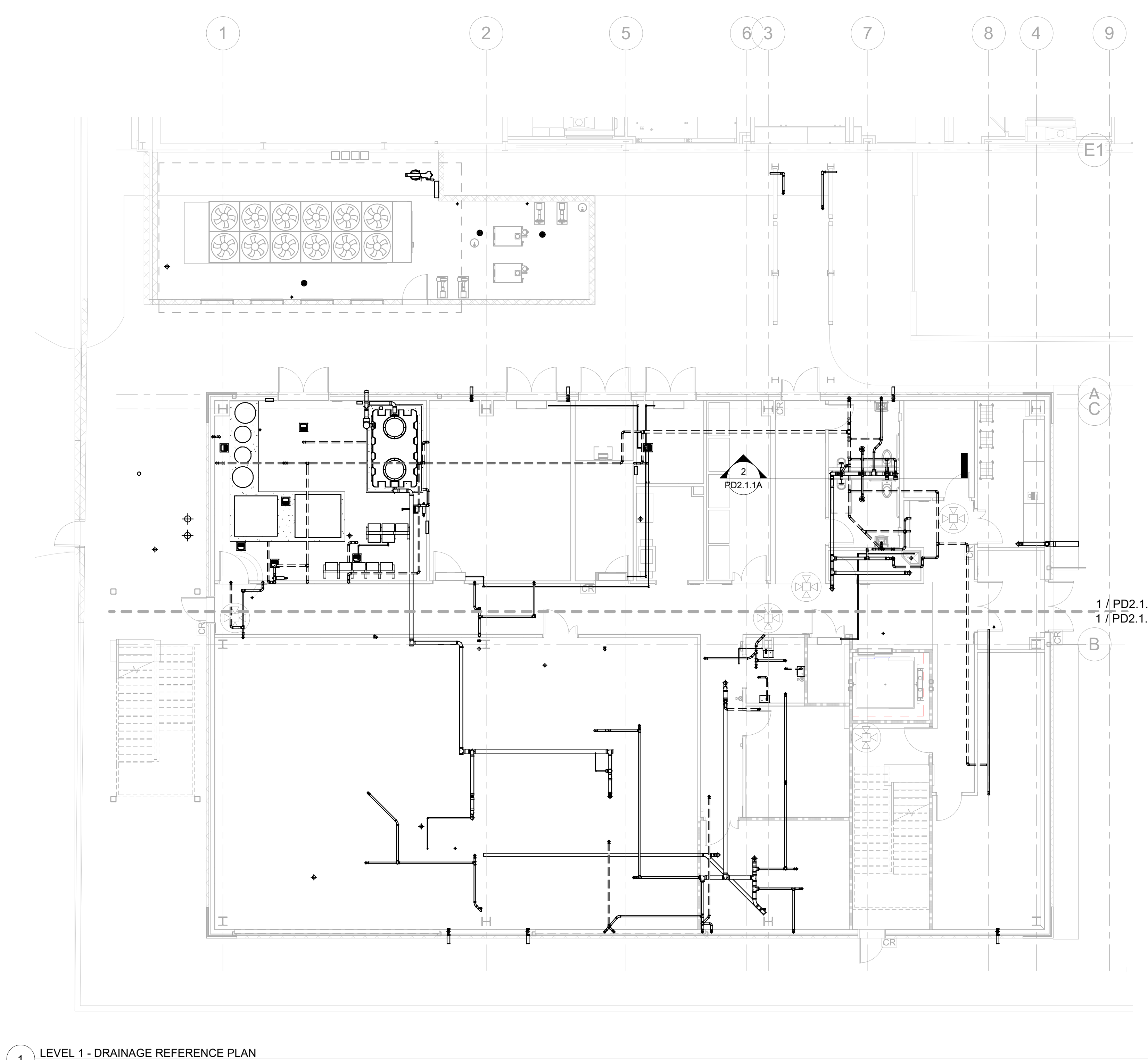
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DRAWING NAME
UNDERGROUND REFERENCE PLAN - DRAINAGE

FLOOR/SECTION PHASE DRAWING NO.

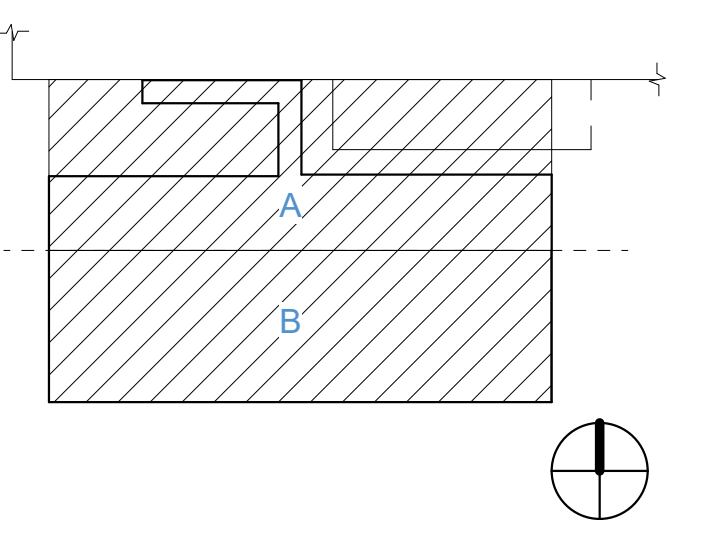
NOT FOR CONSTRUCTION

CD PD1.0



1 LEVEL 1 - DRAINAGE REFERENCE PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



PRINCIPAL
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RESEARCH PLANNER
Steph Vargas

PROJECT ENGINEER
Tony Castro

PLUMBING MODEL LEAD
Tina Kawagishi

REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D			10.11.2024
C		ISSUED FOR OWNER'S REVIEW	09.26.2024
B		DESIGN DEVELOPMENT	05.24.2024
A		50% DD SET	05.10.24

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY _____ TK DATE 11.08.2024

PROJECT NO. 20230523 SCALE 1/8" = 1'-0"

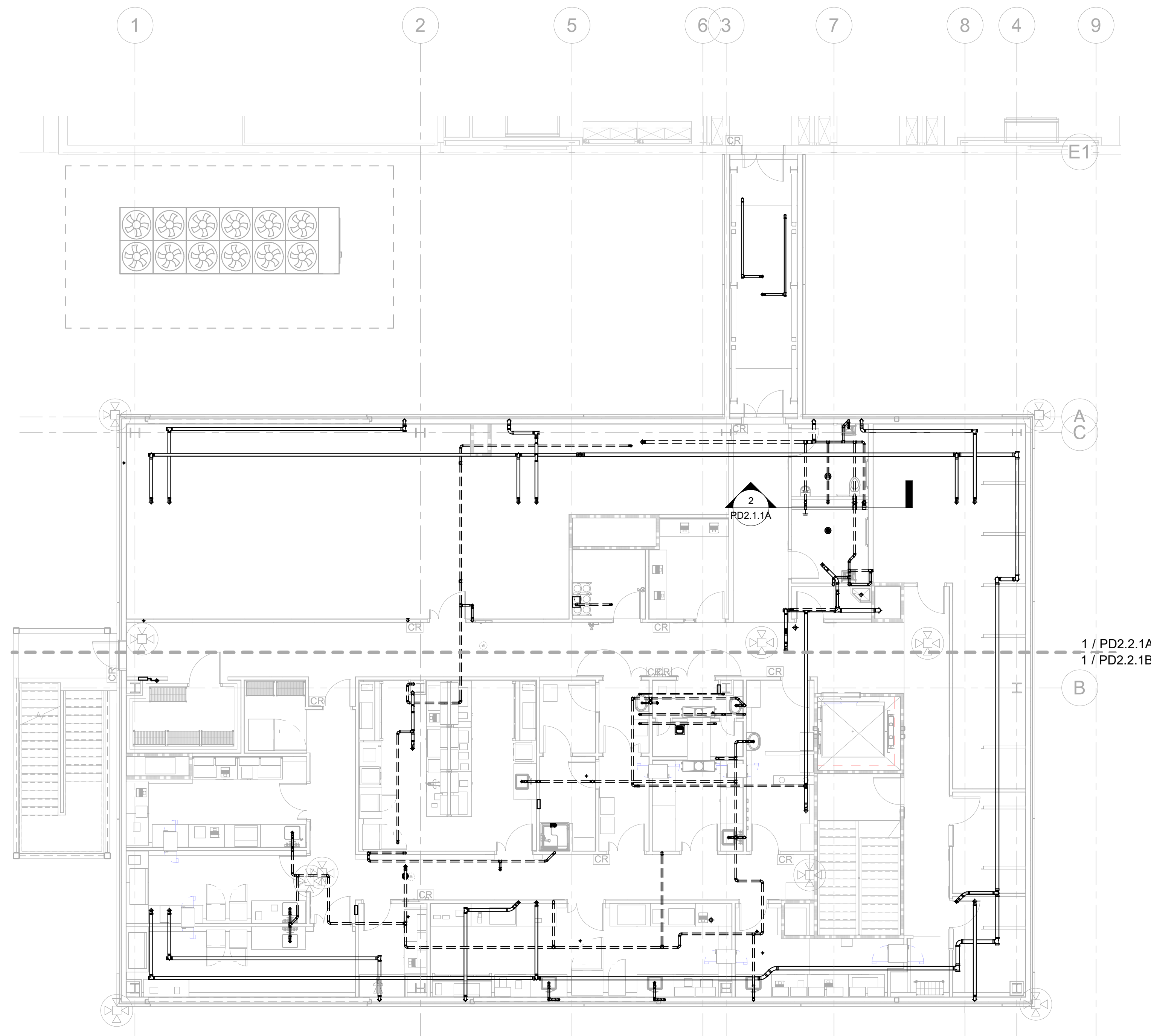
DRAWING NAME

LEVEL 1 REFERENCE PLAN - DRAINAGE

FLOOR/SECTION PHASE DRAWING NO.

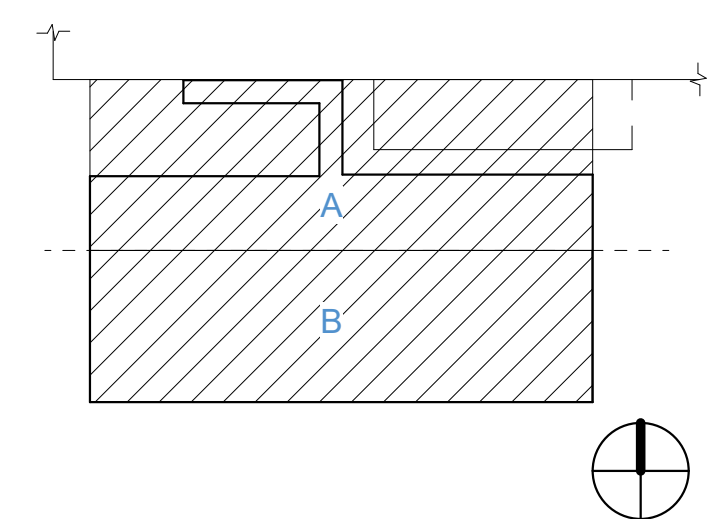
NOT FOR CONSTRUCTION

CD PD1.1



1 LEVEL 2 - DRAINAGE REFERENCE PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



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DRAWN BY TK DATE 11.08.2024
PROJECT NO. 20230523 SCALE 1/8" = 1'-0"

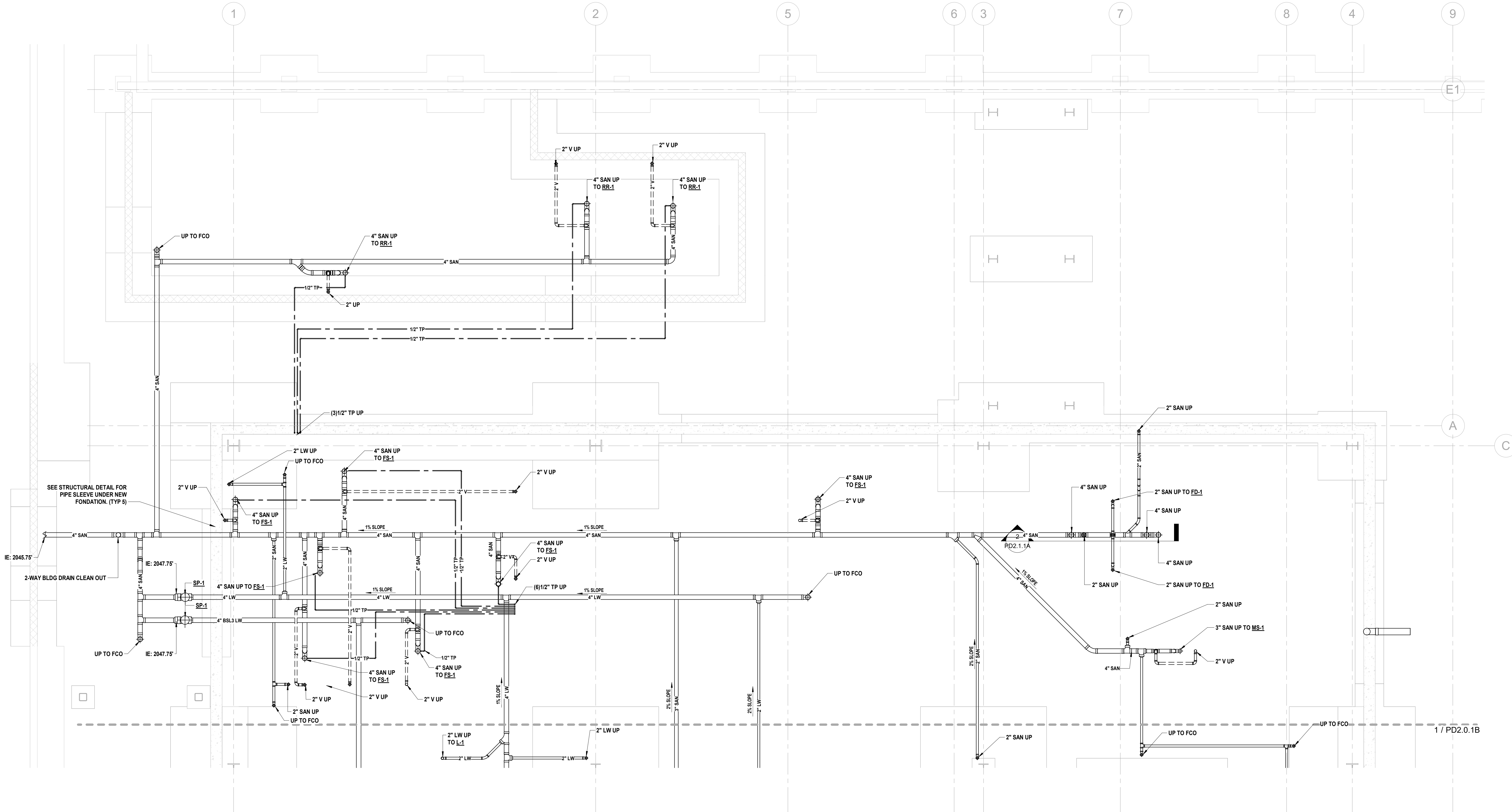
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LEVEL 2 REFERENCE PLAN - DRAINAGE

FLOOR/SECTION PHASE DRAWING NO.

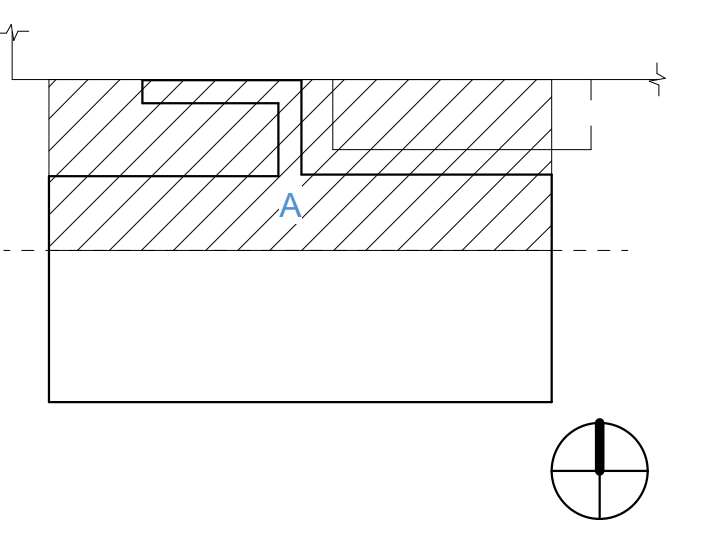
NOT FOR CONSTRUCTION

CD PD1.2

GENERAL NOTES



KEY PLAN



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PROJECT NO. 20230523 SCALE 1/4" = 1'-0"

DRAWING NAME FLOOR PLAN UNDERGROUND SECTOR A - DRAINAGE

FLOOR/SECTION PHASE DRAWING NO.

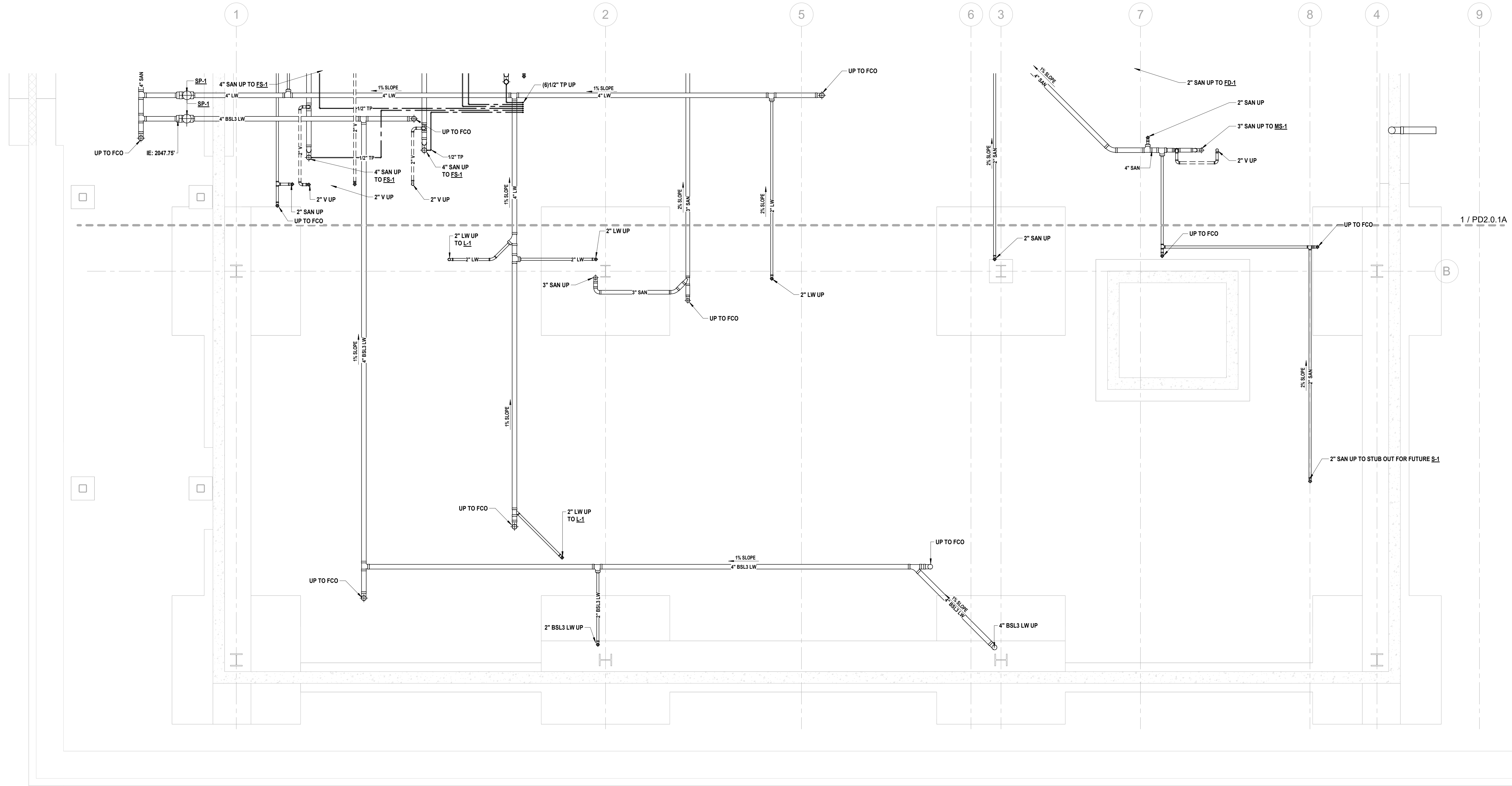
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CD PD2.0.1A

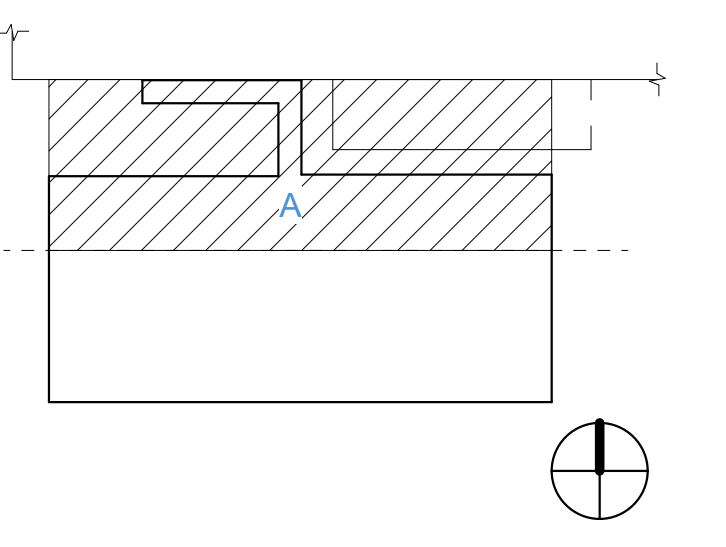
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SCALE: 1/4" = 1'-0"

11/8/2024 1:53:23 PM Autodesk Docs://20230523 - South Nevada Health District M.L.K. Bldg - 3 LAB/20230523_P22_CENTRAL.rvt

GENERAL NOTES



KEY PLAN



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Tina Kawagishi

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DRAWN BY TK DATE 11.08.2024

PROJECT NO. 20230523 SCALE 1/4" = 1'-0"

DRAWING NAME
FLOOR PLAN UNDERGROUND SECTOR B - DRAINAGE

FLOOR/SECTION PHASE DRAWING NO.

CD PD2.0.1B

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

NOT FOR CONSTRUCTION

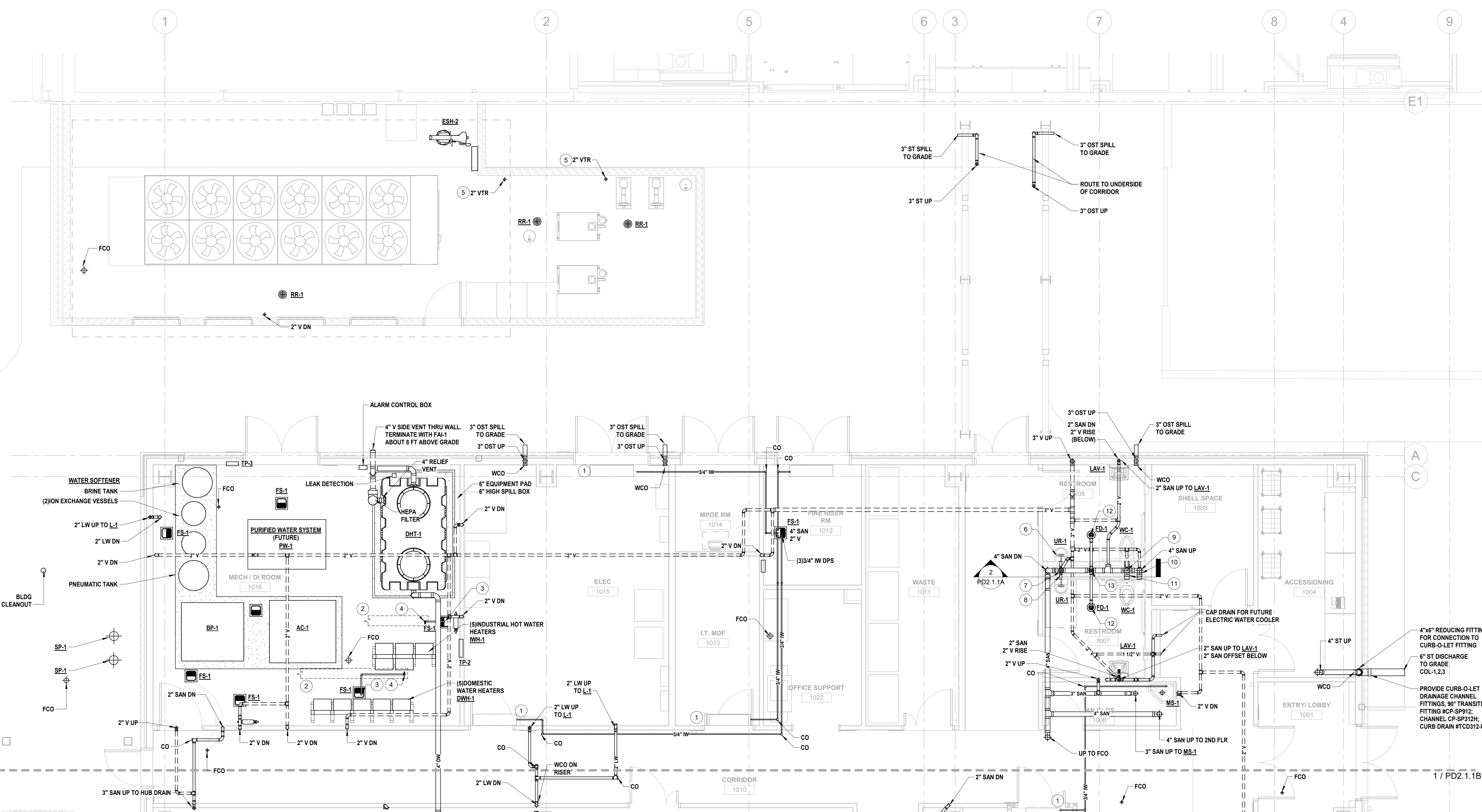
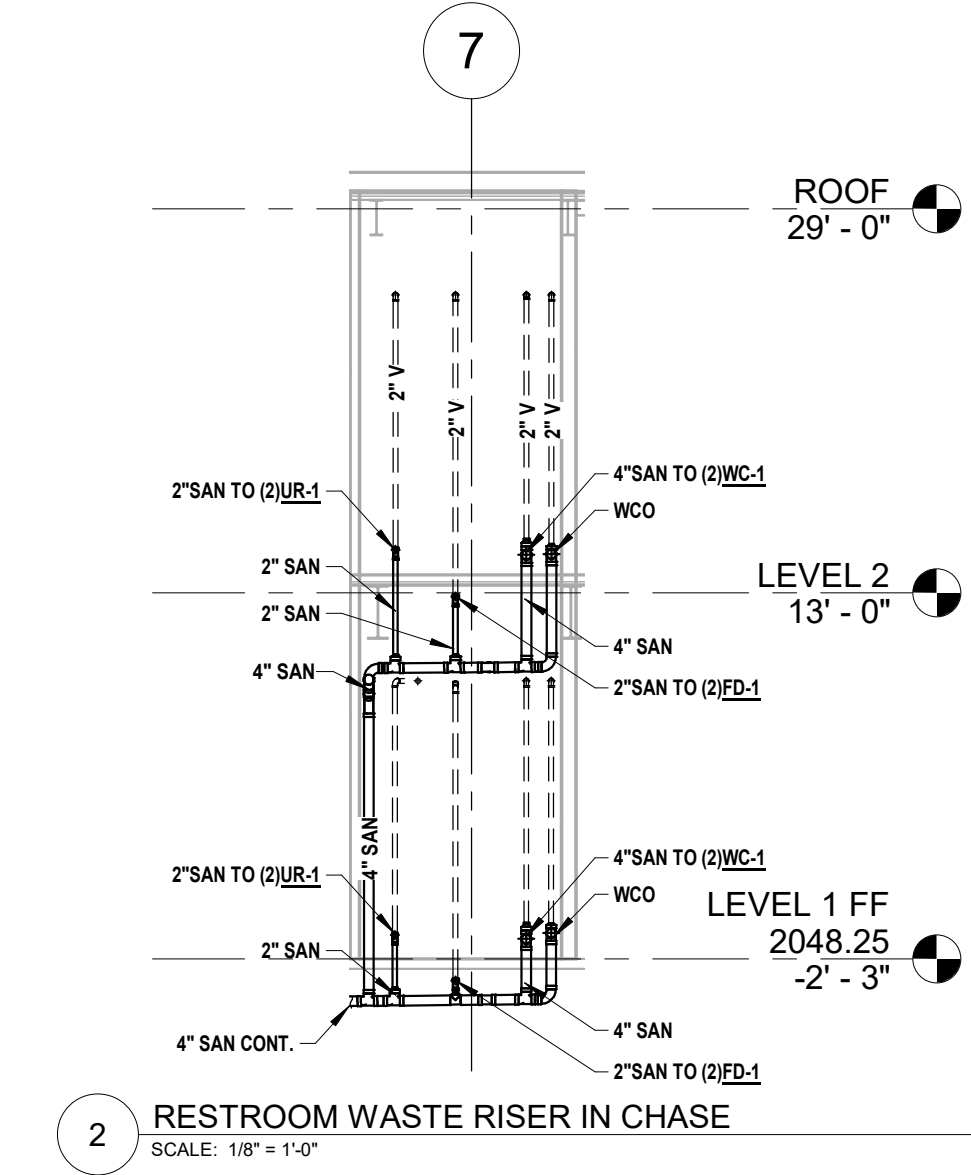
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GENERAL NOTES

KEY NOTES

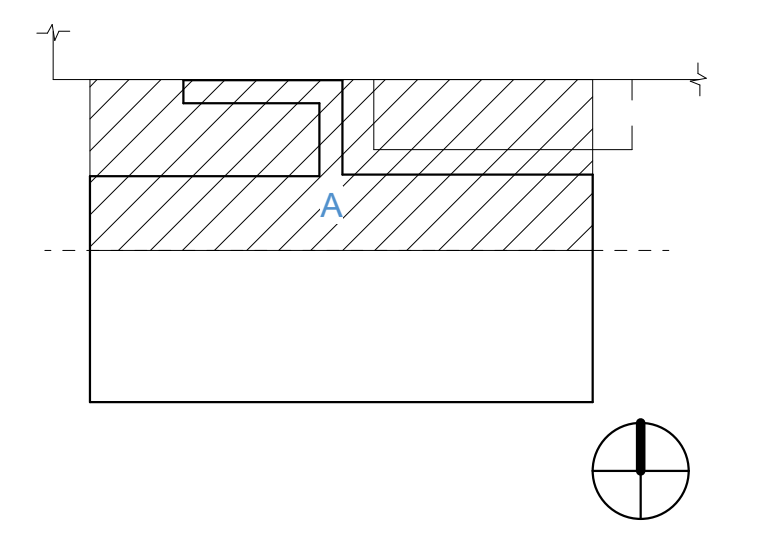
DETAIL

- 1 3/4" IW FROM SPLIT SYSTEM CONDENSATE PUMP.
- 2 10" Ø EIA DUCT SHOWN FOR REFERENCE. SEE MECH DWG
- 3 PROVIDE MFR PROVIDED ACID NEUTRALIZING KIT FOR EXHAUST CONDENSATE.
- 4 EXHAUST DUCT DRAIN PORT.
- 5 VENT TERMINATION RISE 10-FT ABOVE SLAB, ATTACH AND SECURE TO WALL.
- 6 PROVIDE WCO FOR UR-1 (TYP)
- 7 2" SAN UP TO (2)UR-1
- 8 2" SAN TO (2)UR-1 2" V
- 9 4" SAN UP TO (2)WC-1
- 10 WCO 4" SAN DN 2" V RISE
- 11 4" SAN TO (2)WC-1 2" V
- 12 2" SAN UP TO ED-1
- 13 2" V UP



1 LEVEL 1 - DRAINAGE PLAN
SCALE: 1/4" = 1'-0"

KEY PLAN



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DRAWN BY TK DATE 11.08.2024

PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME

FLOOR/SECTION PHASE 11.08.2024

FLOOR/SECTION PHASE DRAWING NO. CD PD2.1.1A

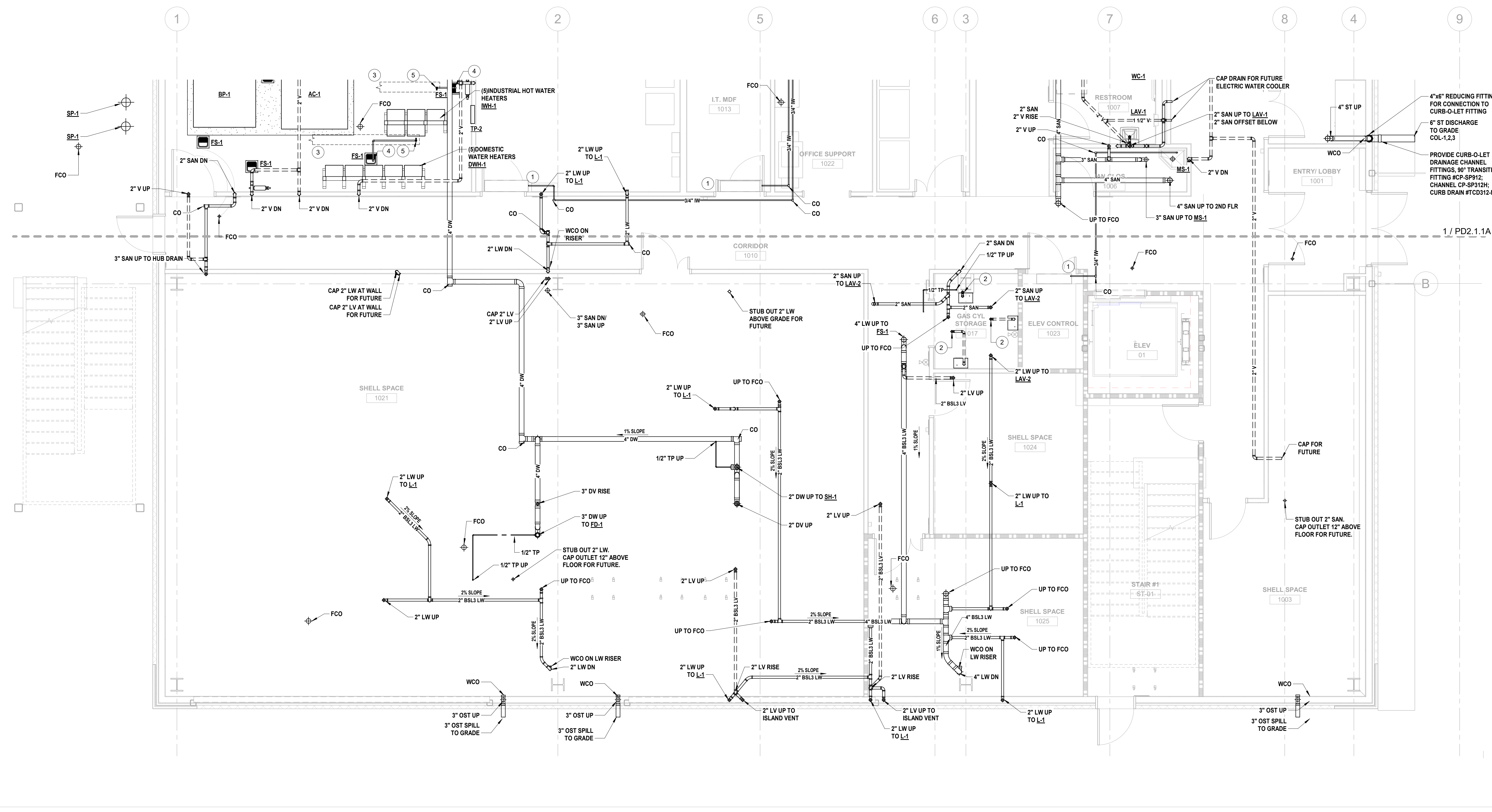
NOT FOR CONSTRUCTION

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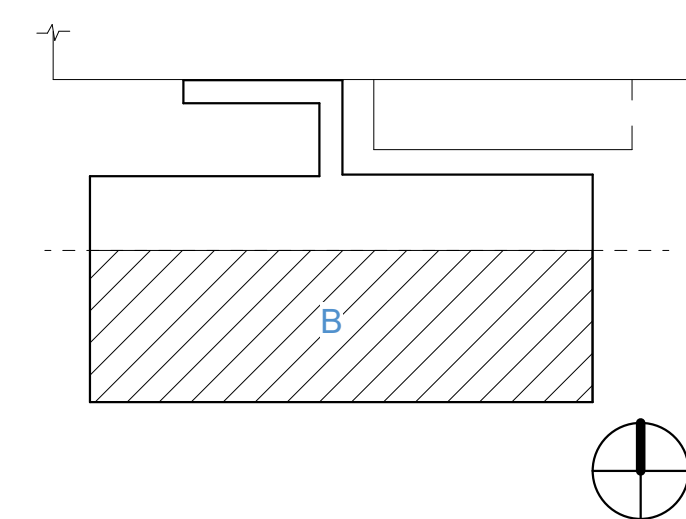
GENERAL NOTES

KEY NOTES

- 1 3/4" IW FROM SPLIT SYSTEM CONDENSATE PUMP.
- 2 1-1/2" RELIEF VENT UP
- 3 10" Ø E/A DUCT SHOWN FOR REFERENCE. SEE MECH DWG
- 4 PROVIDE MFR PROVIDED ACID NEUTRALIZING KIT FOR EXHAUST CONDENSATE.
- 5 EXHAUST DUCT DRAIN PORT.



KEY PLAN



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PROJECT NO. 20230523 SCALE 1/4" = 1'-0"

DRAWING NAME

FLOOR PLAN LEVEL 1 SECTOR B - DRAINAGE

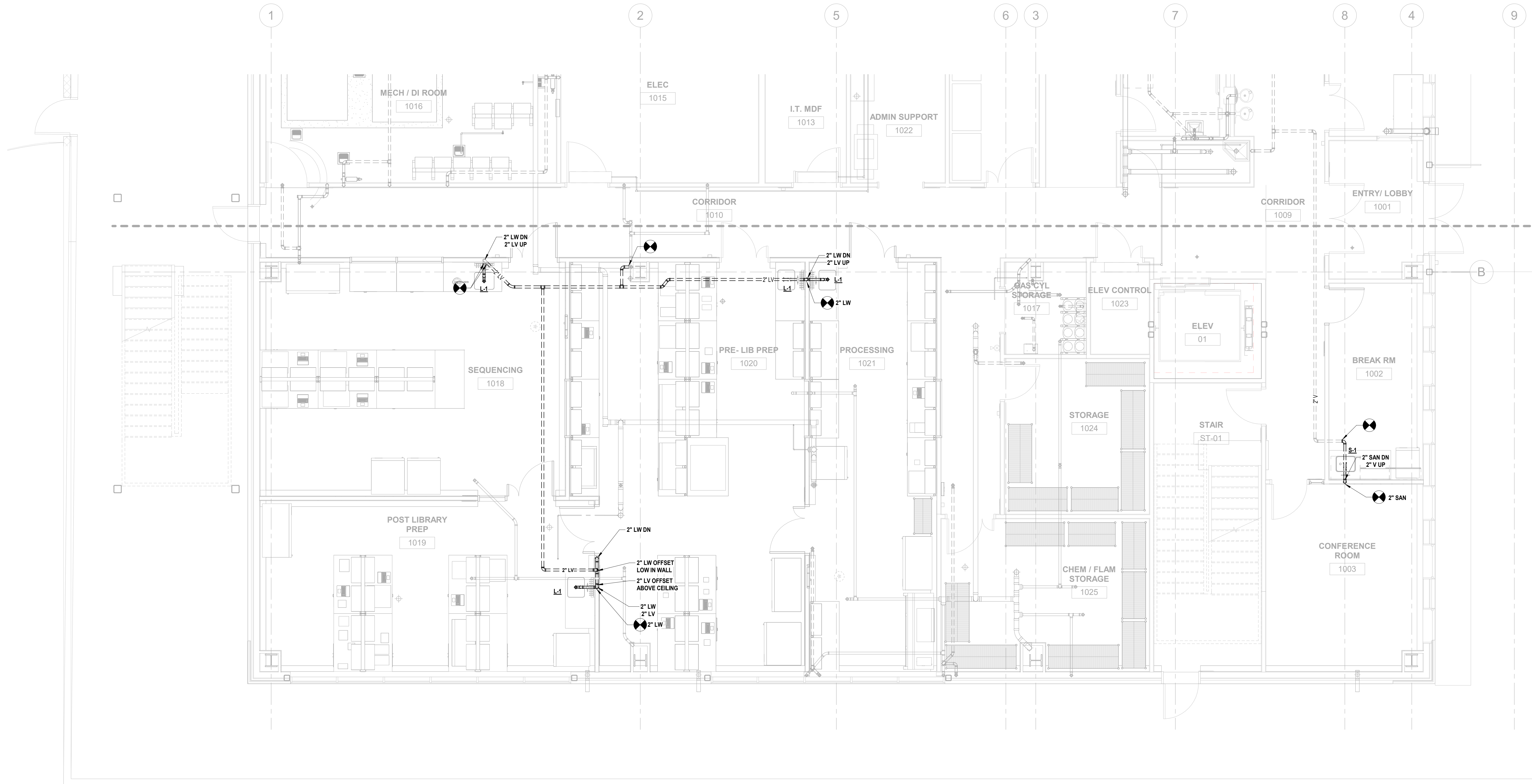
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NOT FOR CONSTRUCTION

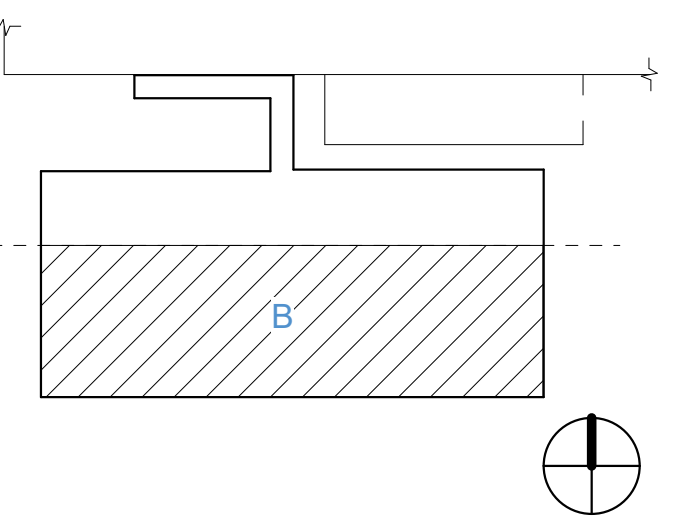
CD PD2.1.1B

1 LEVEL 1 DRAINAGE - SECTOR B
SCALE: 1/4" = 1'-0"

GENERAL NOTES



KEY PLAN



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PROJECT NO. 20230523 SCALE 1/4" = 1'-0"

DRAWING NAME

FLOOR PLAN LEVEL 1 SECTOR B - DRAINAGE PHASE 2

FLOOR/SECTION PHASE DRAWING NO.

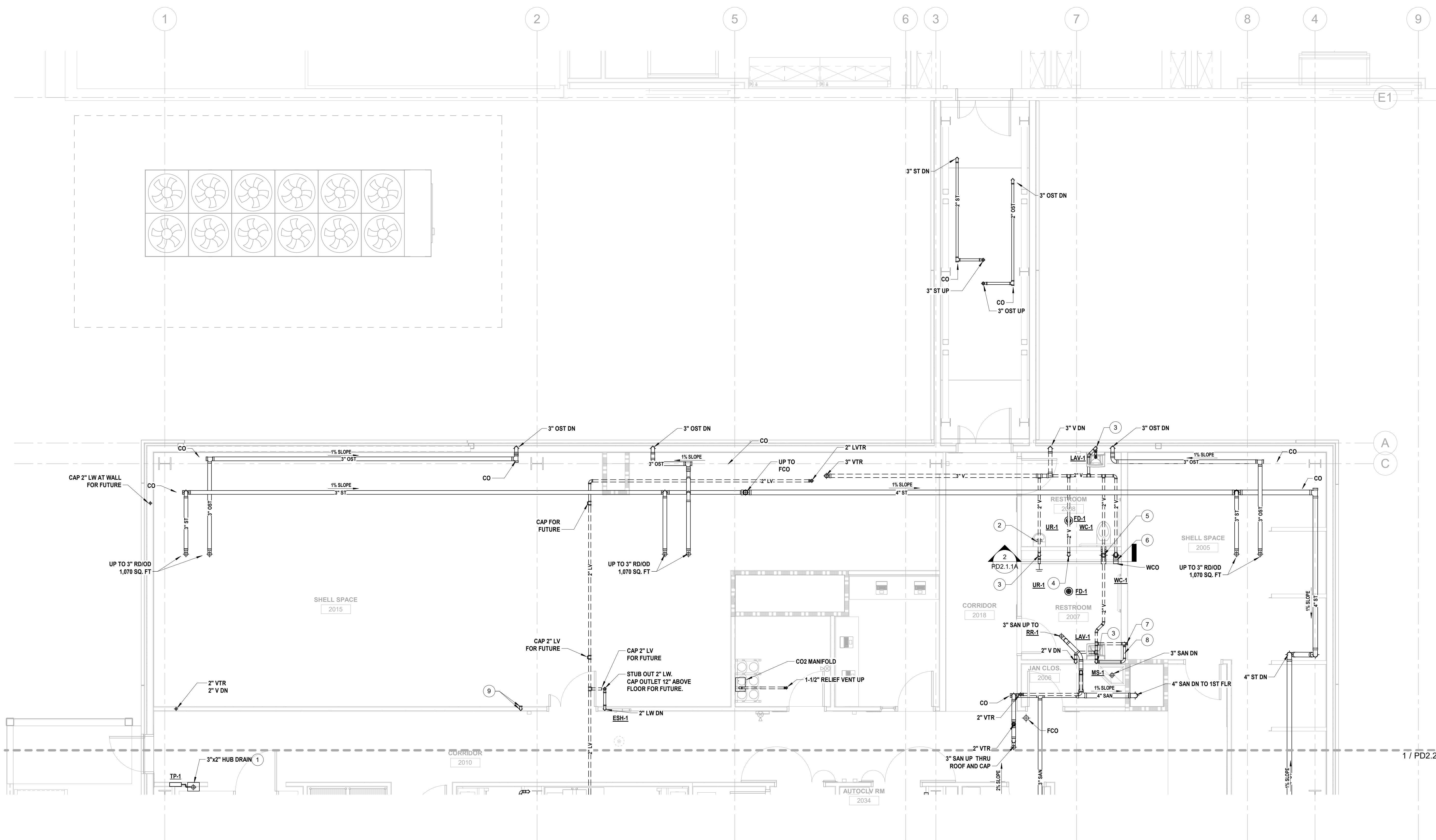
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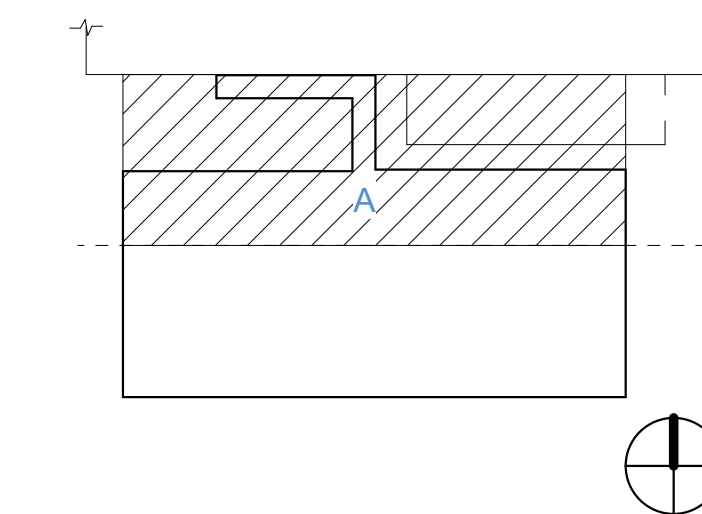
GENERAL NOTES

KEY NOTES

- 1 COORDINATE HUB DRAIN ACCESS PANEL AND SPACE WITH ARCH DRAWINGS.
- 2 PROVIDE WCO FOR UR-1 (TYP)
- 3 2" SAN DN
2" V RISE
- 4 2" V DN
- 5 4" SAN DN
2" V RISE
- 6 4" SAN DN
2" V RISE
- 7 2" SAN STUB OUT AT WALL
CAP FOR FUTURE
- 8 2" SAN ABOVE FLOOR LOW IN WALL
- 9 CAP FOR 2" LV AT WALL FOR FUTURE.
CAP 2" LW AT WALL FOR FUTURE.



KEY PLAN



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PROJECT NO. 20230523 SCALE 1/4" = 1'-0"

DRAWING NAME

FLOOR PLAN LEVEL 2 SECTOR A - DRAINAGE

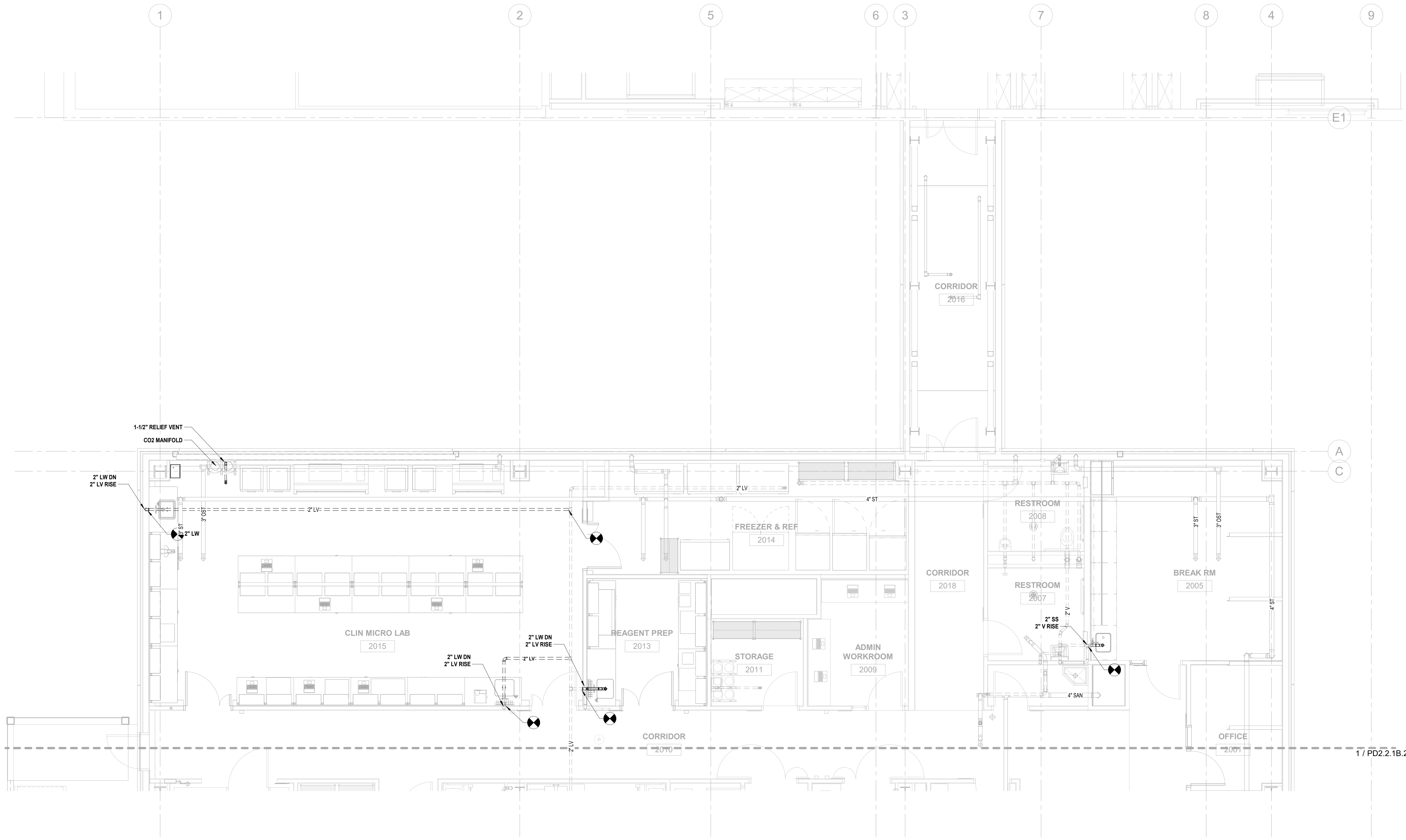
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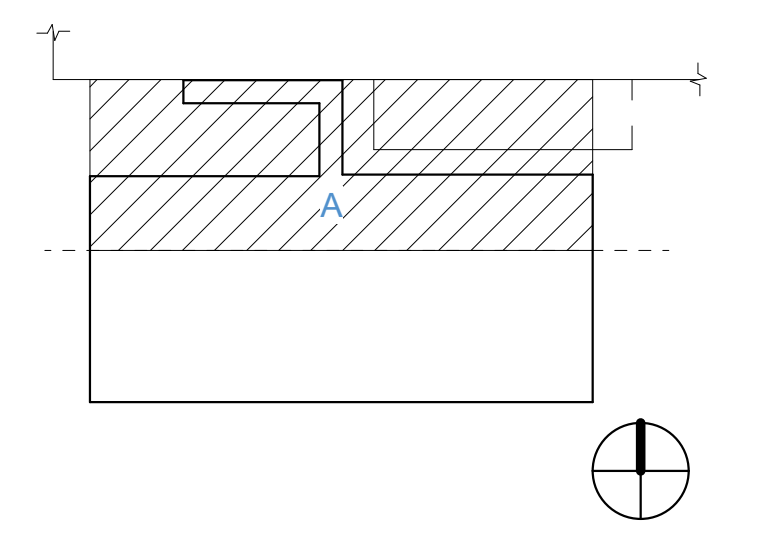
NOT FOR CONSTRUCTION

1 LEVEL 2 DRAINAGE - SECTOR A
SCALE: 1/4" = 1'-0"

GENERAL NOTES



KEY PLAN



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PROJECT NO. 20230523 SCALE 1/4" = 1'-0"

DRAWING NAME

FLOOR PLAN LEVEL 2 SECTOR A - DRAINAGE PHASE 2

FLOOR/SECTION PHASE DRAWING NO.

CD PD2.2.1A.2

NOT FOR CONSTRUCTION

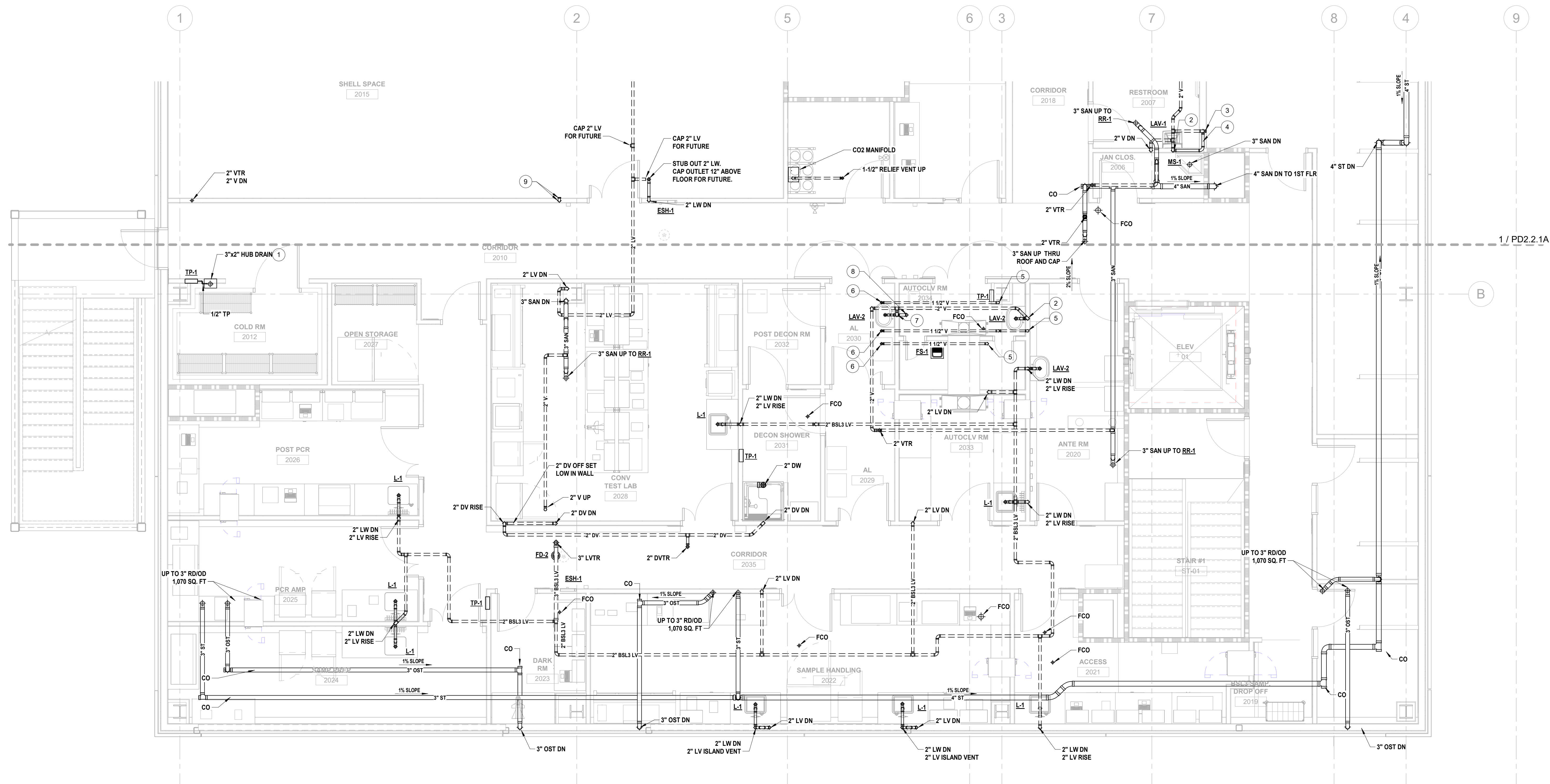
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SCALE: 1/4" = 1'-0"

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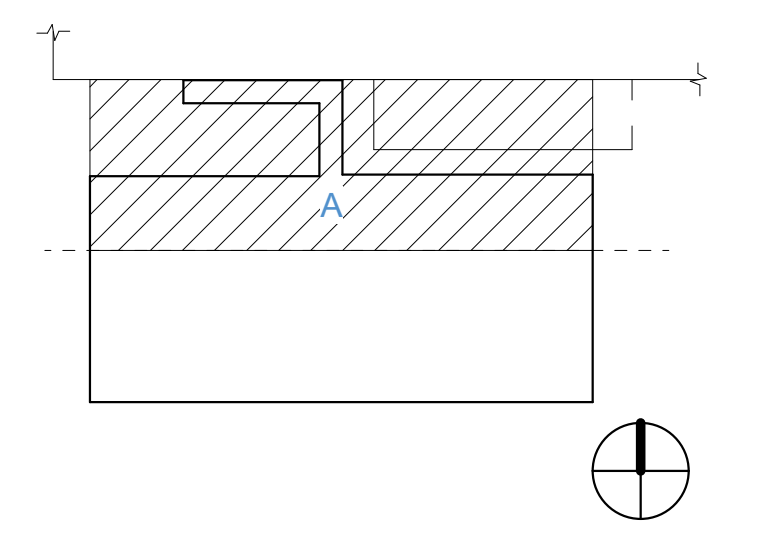
GENERAL NOTES

KEY NOTES

- 1 COORDINATE HUB DRAIN ACCESS PANEL AND SPACE WITH ARCH DRAWINGS.
- 2 2" SAN DN
2" V RISE
- 3 2" SAN STUB OUT AT WALL
CAP FOR FUTURE
- 4 2" SAN ABOVE FLOOR LOW IN WALL
- 5 1-1/2" RELIEF VENT DN
- 6 1-1/2" RELIEF VENT UP
- 7 2" SAN DN OFFSET BEAM
2" V RISE
- 8 2" SAN EXPOSED
- 9 CAP FOR 2" LV AT WALL FOR FUTURE.
CAP 2" LW AT WALL FOR FUTURE.



KEY PLAN



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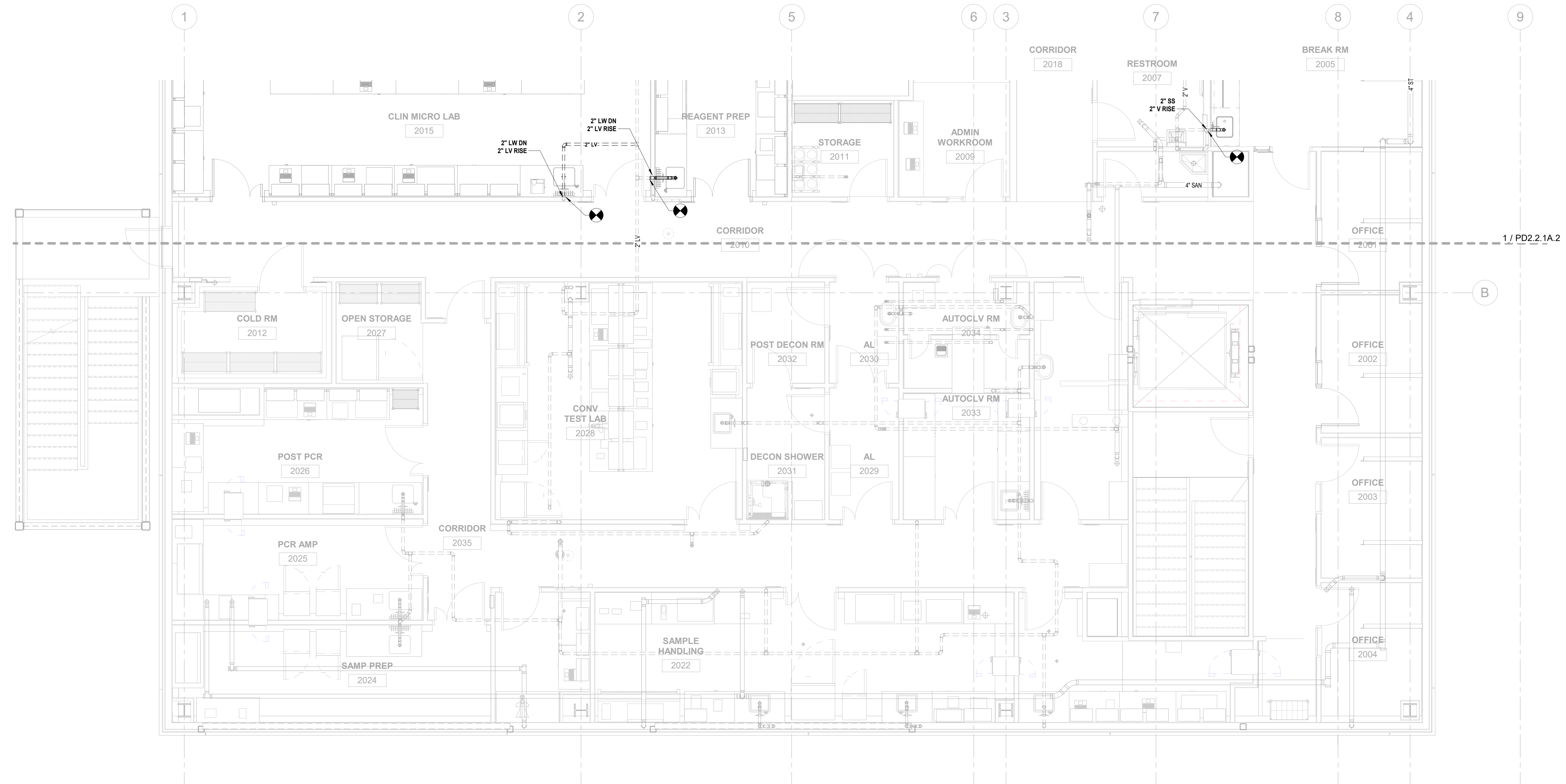
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FLOOR PLAN LEVEL 2 SECTOR B - DRAINAGE

FLOOR/SECTION PHASE DRAWING NO.

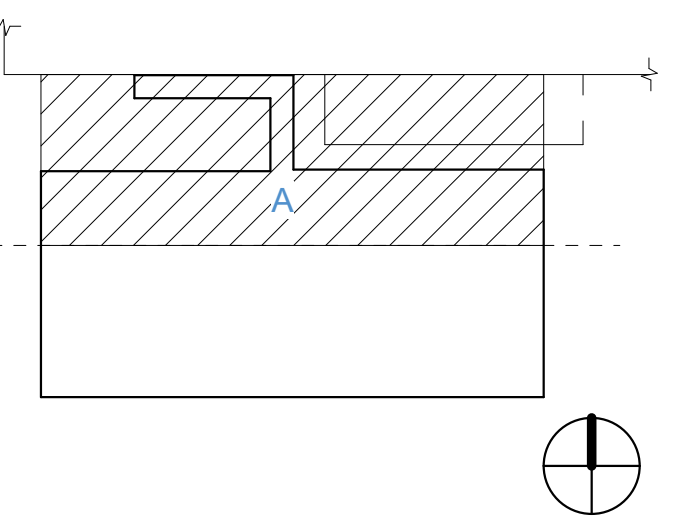
NOT FOR CONSTRUCTION

CD PD2.2.1B

GENERAL NOTES



KEY PLAN



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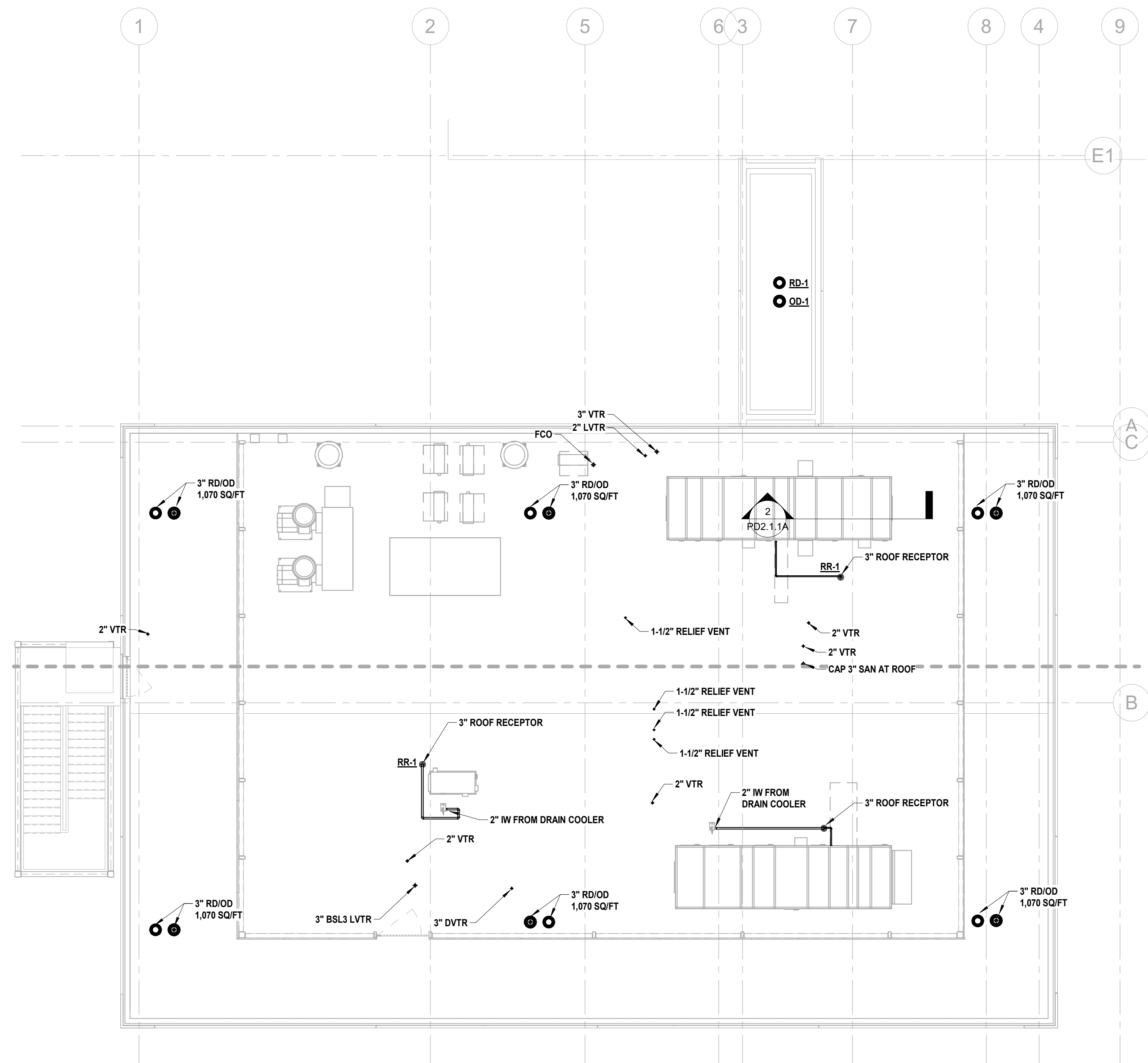
FLOOR PLAN LEVEL 2 SECTOR B - DRAINAGE PHASE 2

FLOOR/SECTION PHASE DRAWING NO.

NOT FOR CONSTRUCTION

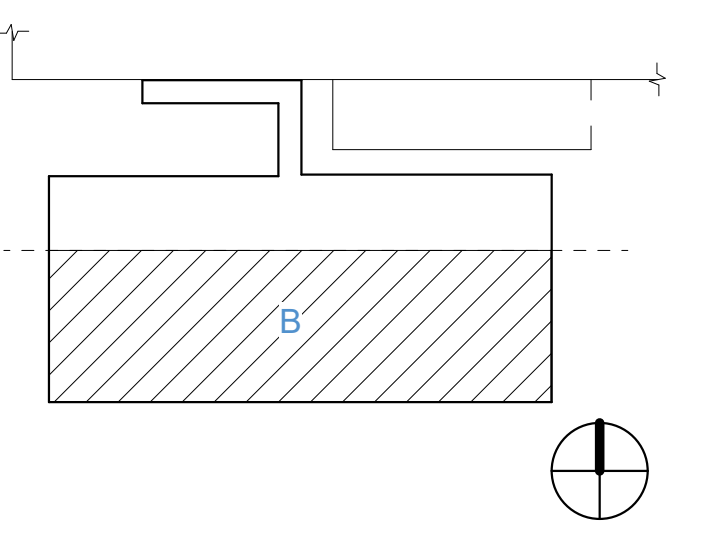
CD PD2.2.1B.2

1 LEVEL 2 DRAINAGE PLAN - PHASE 2 - SECTOR B
SCALE: 1/4" = 1'-0"



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

KEY PLAN



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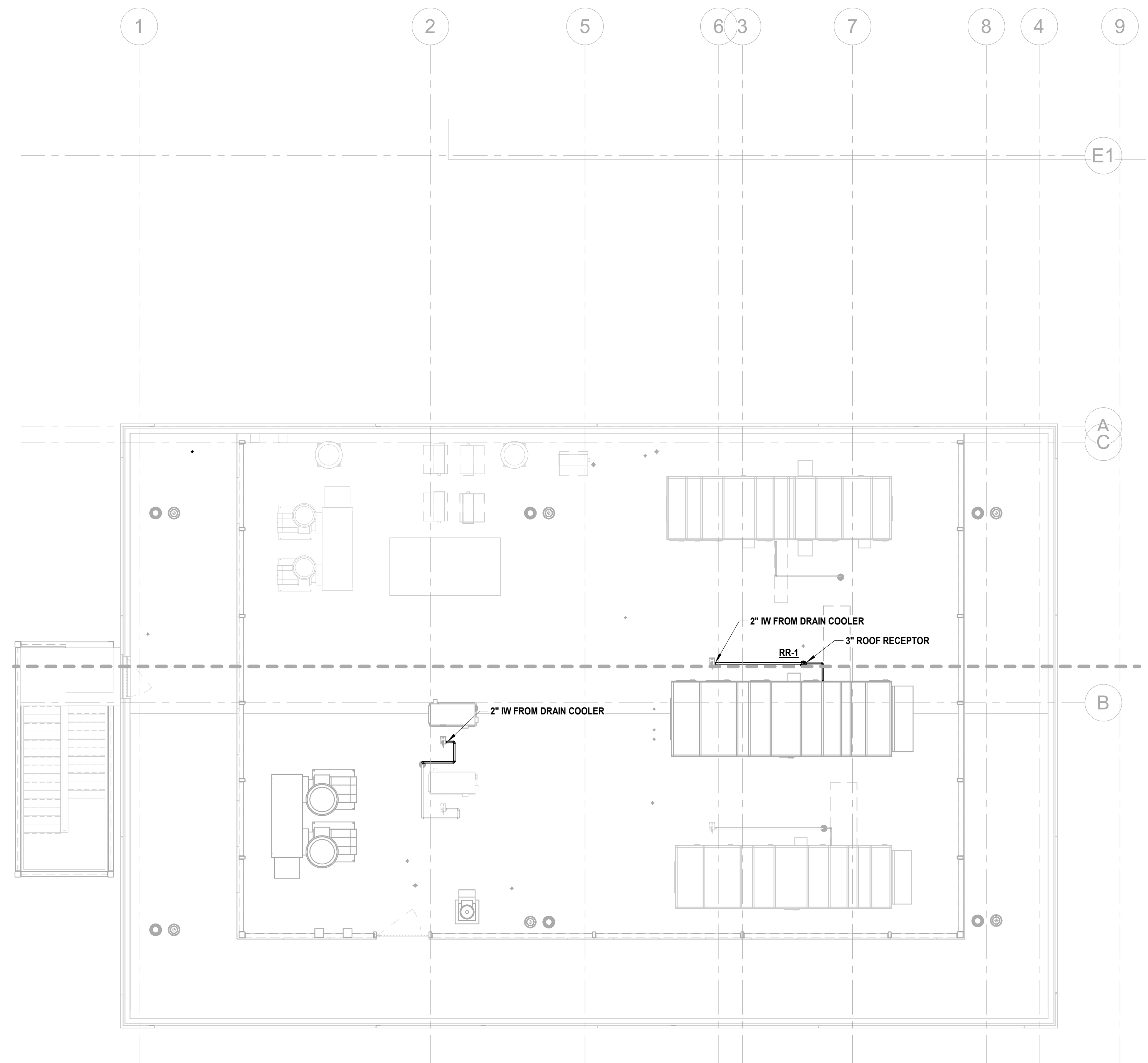
PROJECT NO. 20230523 SCALE 1/8" = 1'-0"

DRAWING NAME: ROOF - DRAINAGE

FLOOR/SECTION PHASE: DRAWING NO.

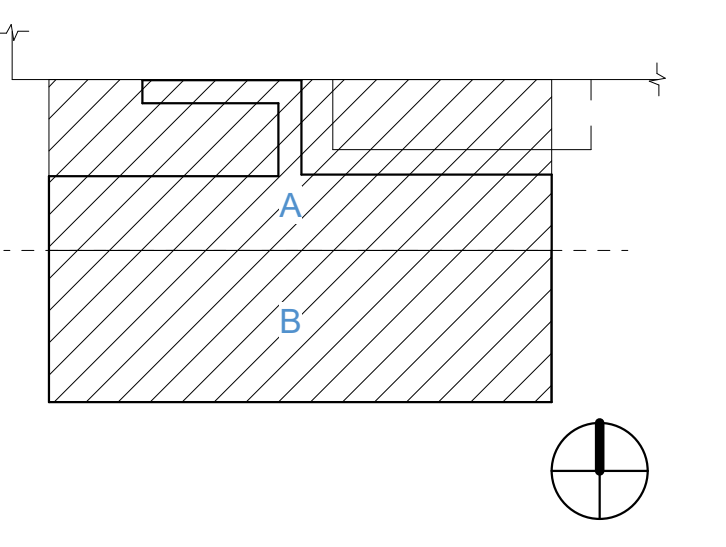
NOT FOR CONSTRUCTION

CD PD2.3.1



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

KEY PLAN



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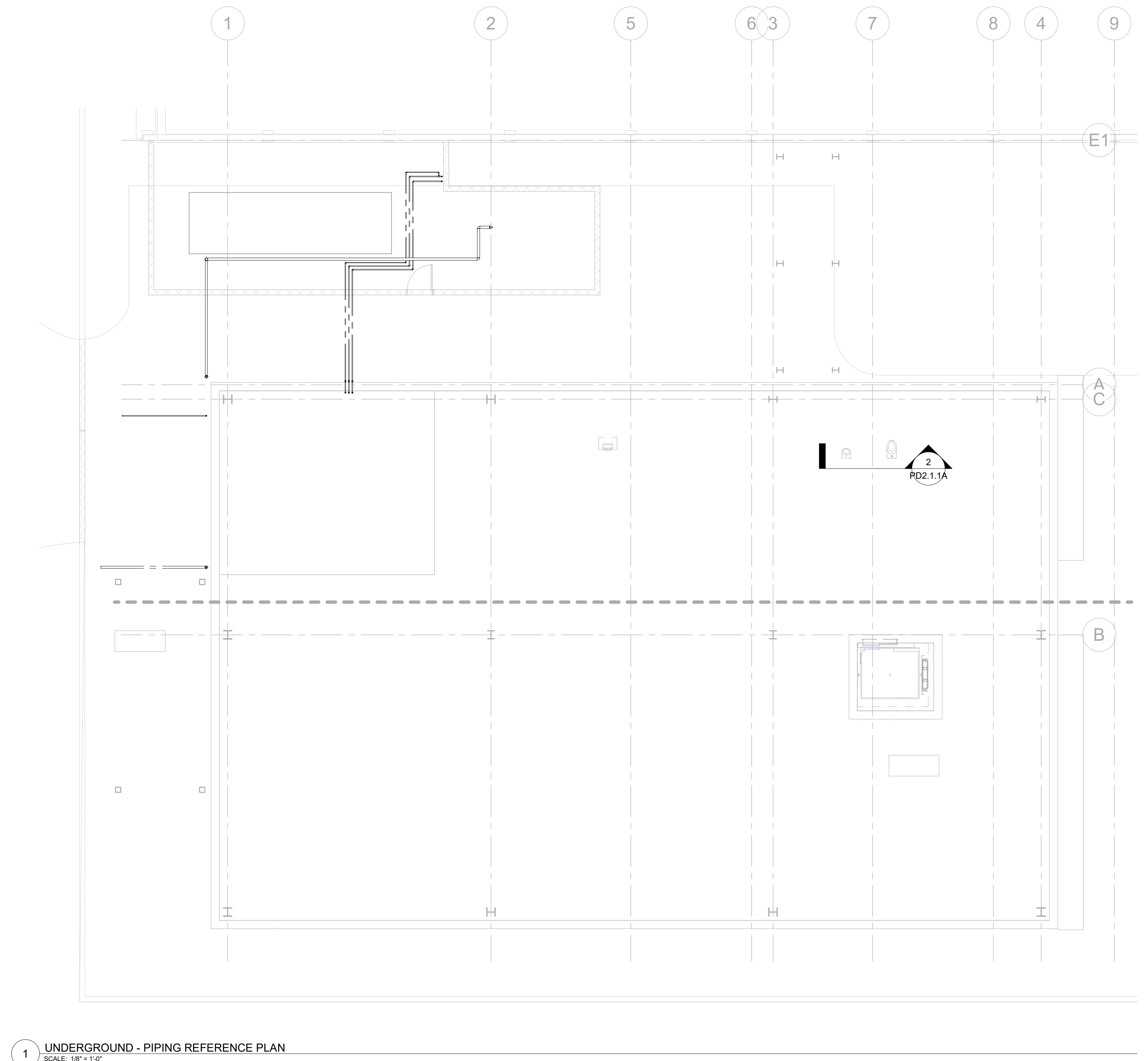
PROJECT NO. 20230523 SCALE 1/8" = 1'-0"

DRAWING NAME
ROOF - DRAINAGE - PHASE 2

FLOOR/SECTION PHASE DRAWING NO.

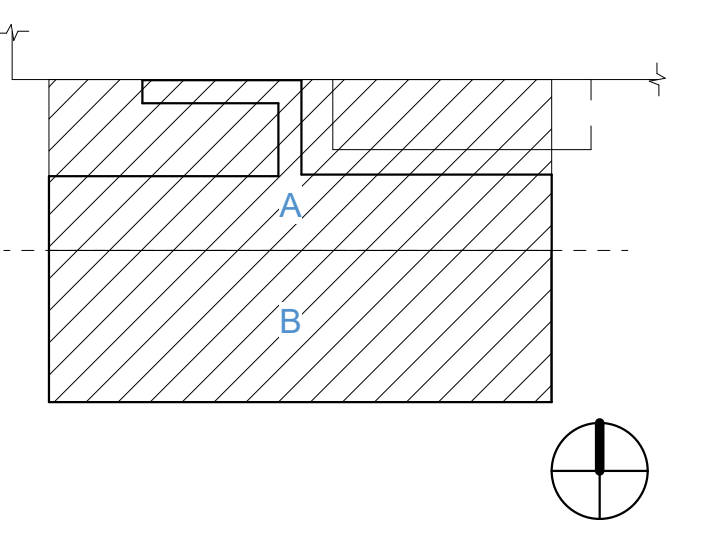
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CD PD2.3.2

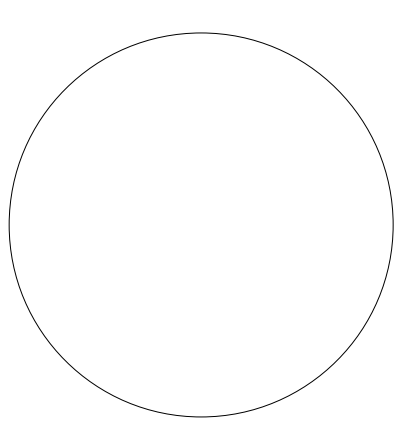


1 UNDERGROUND - PIPING REFERENCE PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



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PROJECT NO. 20230523 SCALE 1/8" = 1'-0"

DRAWING NAME

UNDERGROUND REFERENCE PLAN - PIPING

FLOOR/SECTION PHASE DRAWING NO.

NOT FOR CONSTRUCTION

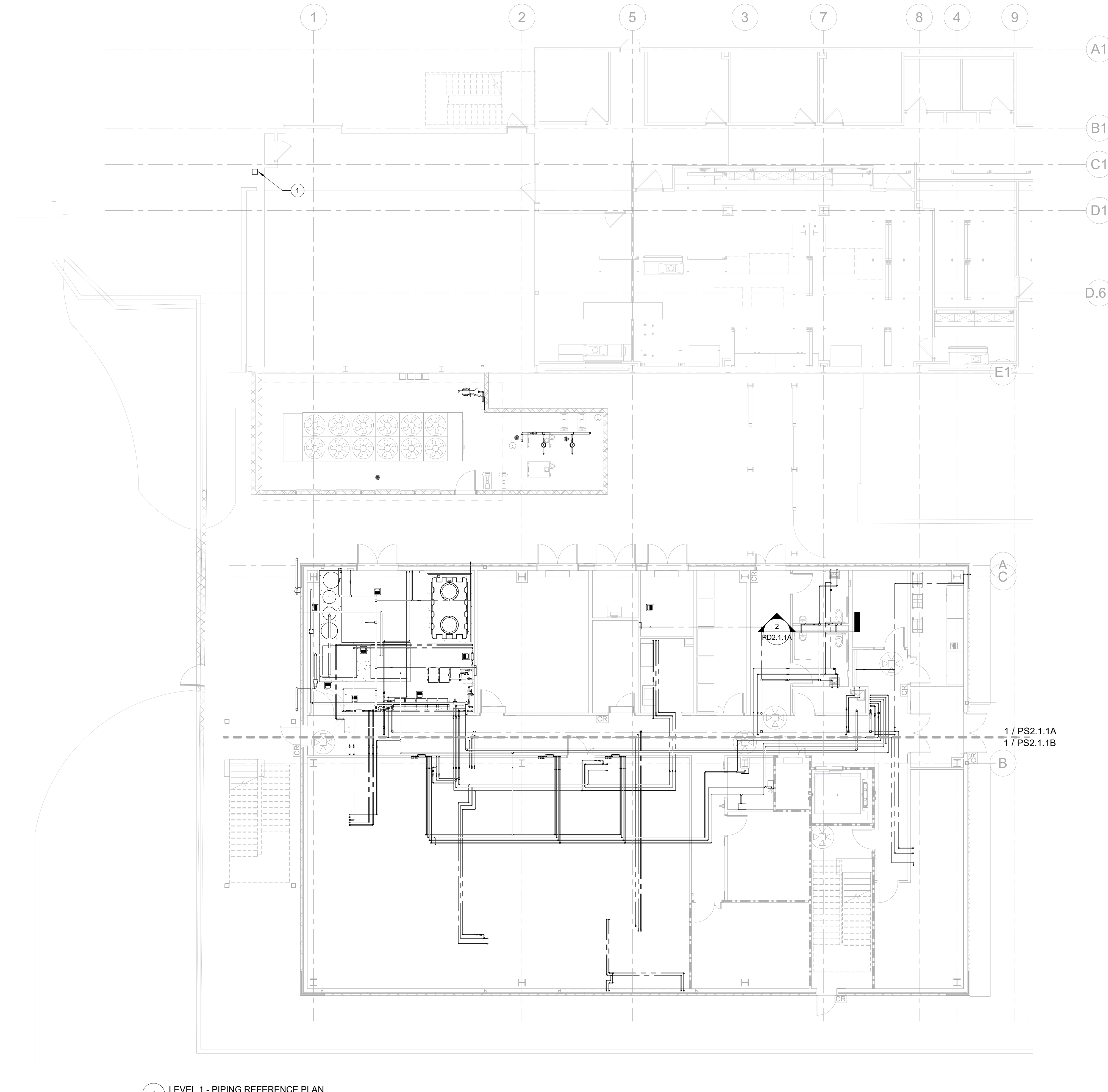
CD PS1.0

GENERAL NOTES

- COORDINATE PLUMBING WORK WITH OTHER TRADES.
- SHUT-OFF VALVES ISOLATING FUTURE DOMESTIC AND LABORATORY WATER PIPE DISTRIBUTION SHALL BE INSTALLED WITHIN 6" PIPE DIAMETER OF ACTIVE WATER DISTRIBUTION AND NORMALLY CLOSED.
- FUTURE DOMESTIC AND LABORATORY WATER PIPING SHALL BE AIRPRESSURE TESTED FOR PIPE INTEGRITY, ONLY. DISINFECTION OF FUTURE PIPE DISTRIBUTION SHALL BE CONDUCTED IN PHASE 2 WORK. CONTRACTOR SHALL MAKE PROVISIONS TO DO THIS WORK.
- AFTER FUTURE COMPRESSED GAS HAS BEEN TESTED AND CERTIFIED, PIPING SHALL BE FILLED AND HOLD COMPRESSED NITROGEN GAS UP TO 5-PSI TO MAINTAIN INSIDE PIPE INTEGRITY TO PHASE 2 SCOPE OF WORK.

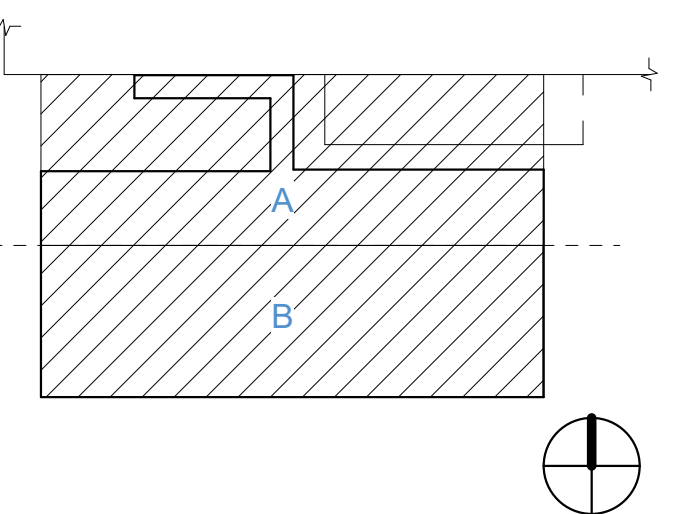
KEY NOTES

- EXISTING BUILDING GAS METER. NATURAL GAS SERVICE PRESSURE SERVING EXISTING BUILDING WILL BE INCREASED TO MEDIUM PRESSURE. PROVIDE OVERPRESSURE PROTECTION REGULATOR TO EXISTING GAS SUPPLY TO BUILDING. INSTALL TO BE ACCESSIBLE FOR MAINTENANCE AND PROTECT FROM PHYSICAL DAMAGE.



1 LEVEL 1 - PIPING REFERENCE PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



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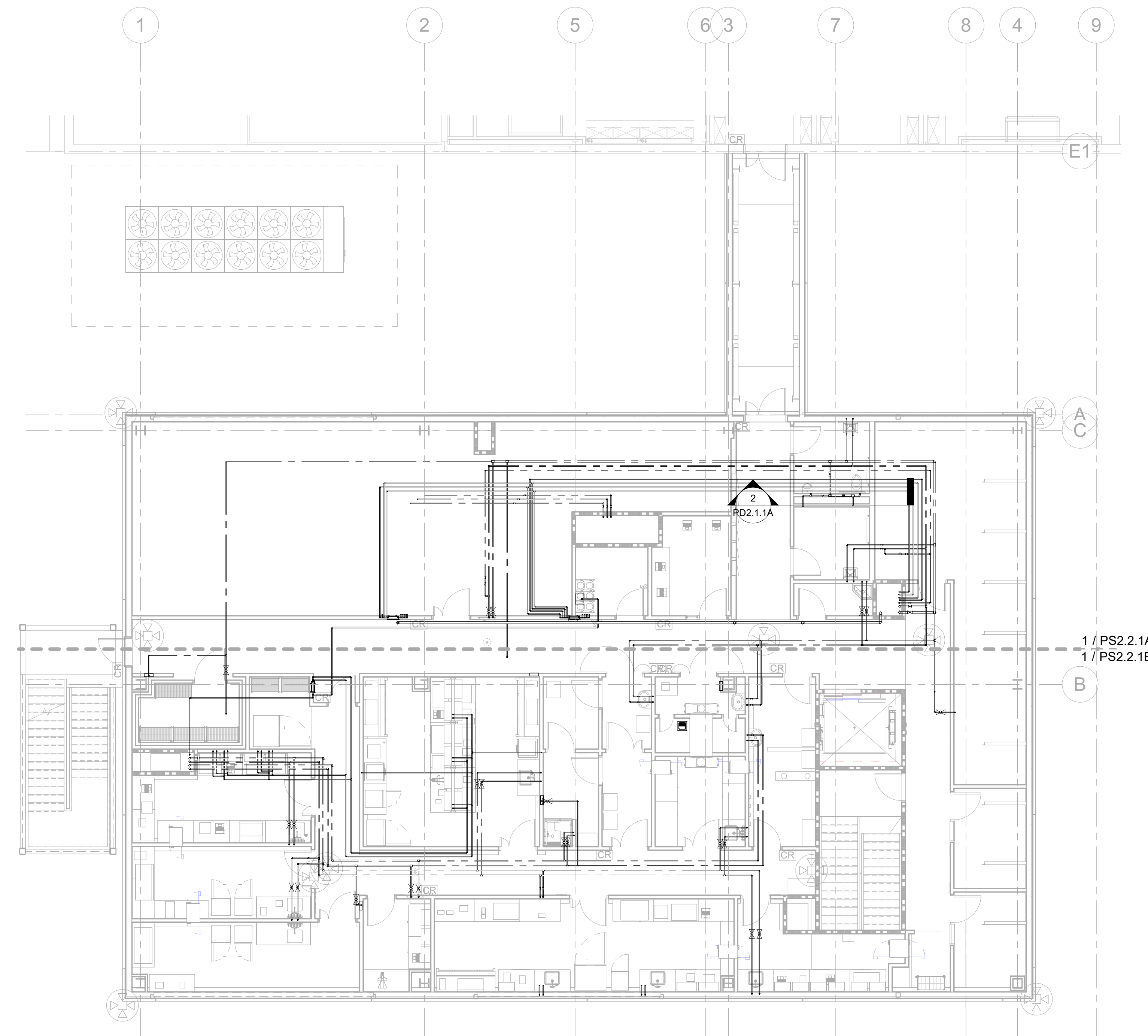
DRAWING NAME

LEVEL 1 REFERENCE PLAN - PIPING

FLOOR/SECTION PHASE DRAWING NO.

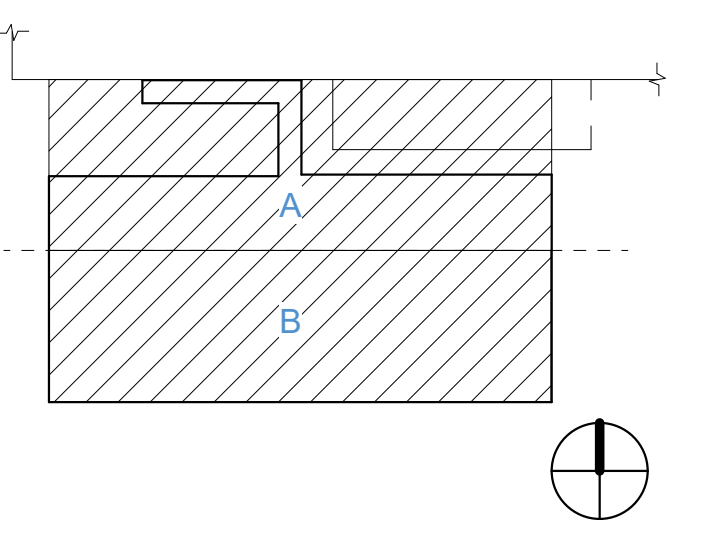
NOT FOR CONSTRUCTION

CD PS1.1



1 LEVEL 2 - PIPING REFERENCE PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



PRINCIPAL
David Keith

RESEARCH PLANNER
Steph Vargas

PROJECT ENGINEER
Tony Castro

PLUMBING MODEL LEAD
Tina Kawagishi

REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D			10.11.2024
C		ISSUED FOR OWNER'S REVIEW	09.26.2024
B		DESIGN DEVELOPMENT	05.24.2024
A		50% DD SET	05.10.24

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY: TK DATE: 11.08.2024

PROJECT NO. 20230523 SCALE 1/8" = 1'-0"

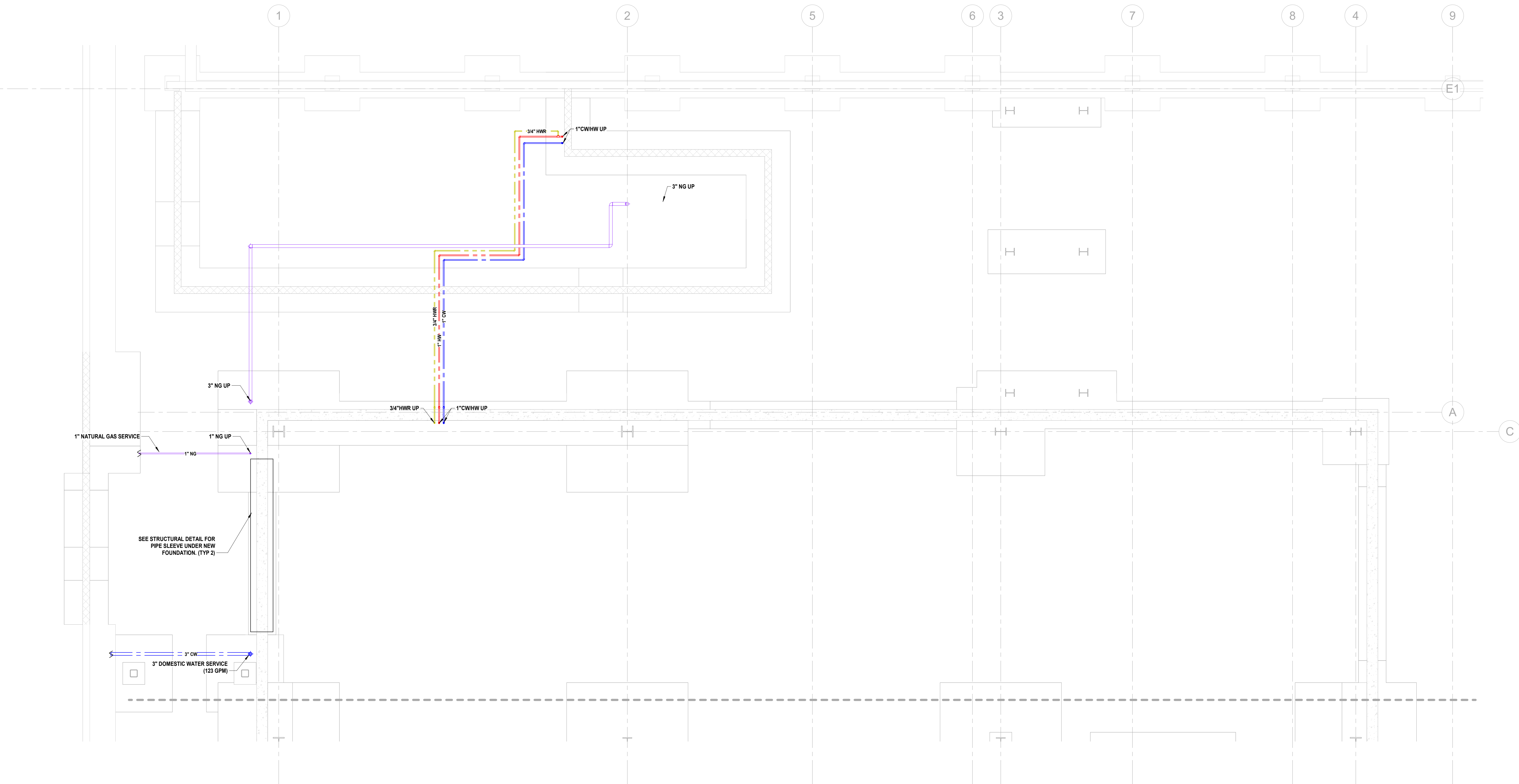
DRAWING NAME: LEVEL 2 REFERENCE PLAN - PIPING

FLOOR/SECTION PHASE: DRAWING NO.

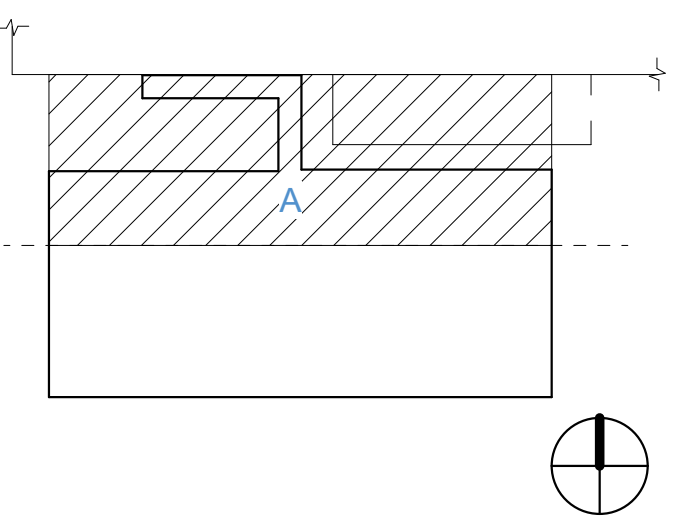
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CD PS1.2

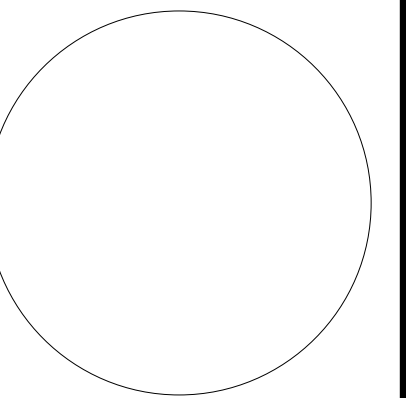
GENERAL NOTES



KEY PLAN



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PROJECT ENGINEER
Tony Castro
PLUMBING MODEL LEAD
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DRAWN BY _____ TK DATE 11.08.2024

PROJECT NO. 20230523 SCALE 1/4" = 1'-0"

DRAWING NAME

FLOOR PLAN UNDERGROUND SECTOR A - PIPING

FLOOR/SECTION PHASE DRAWING NO.

NOT FOR CONSTRUCTION

CD PS2.0.1A

1 UNDERGROUND - PIPING PLAN
SCALE: 1/4" = 1'-0"

11/8/2024 1:54:03 PM Autodesk Docs://20230523 - South Nevada Health District M.L.K. BLDG - 3 LAB/20230523_P22_CENTRAL.rvt

GENERAL NOTES

- COORDINATE PLUMBING WORK WITH OTHER TRADES.
- SHUT-OFF VALVES ISOLATING FUTURE DOMESTIC AND LABORATORY WATER PIPE DISTRIBUTION SHALL BE INSTALLED WITHIN 6" PIPE DIAMETER OF ACTIVE WATER DISTRIBUTION AND NORMALLY CLOSED.
- FUTURE DOMESTIC AND LABORATORY WATER PIPING SHALL BE APPRESSURE TESTED FOR PIPE INTEGRITY, ONLY. DISINFECTION OF FUTURE PIPE DISTRIBUTION SHALL BE CONDUCTED IN PHASE 2 WORK. CONTRACTOR SHALL MAKE PROVISIONS TO DO THIS WORK.
- AFTER FUTURE COMPRESSED GAS HAS BEEN TESTED AND CERTIFIED, PIPING SHALL BE FILLED AND HOLD COMPRESSED NITROGEN GAS UP TO 5-PSI TO MAINTAIN INSIDE PIPE INTEGRITY TO PHASE 2 SCOPE OF WORK.

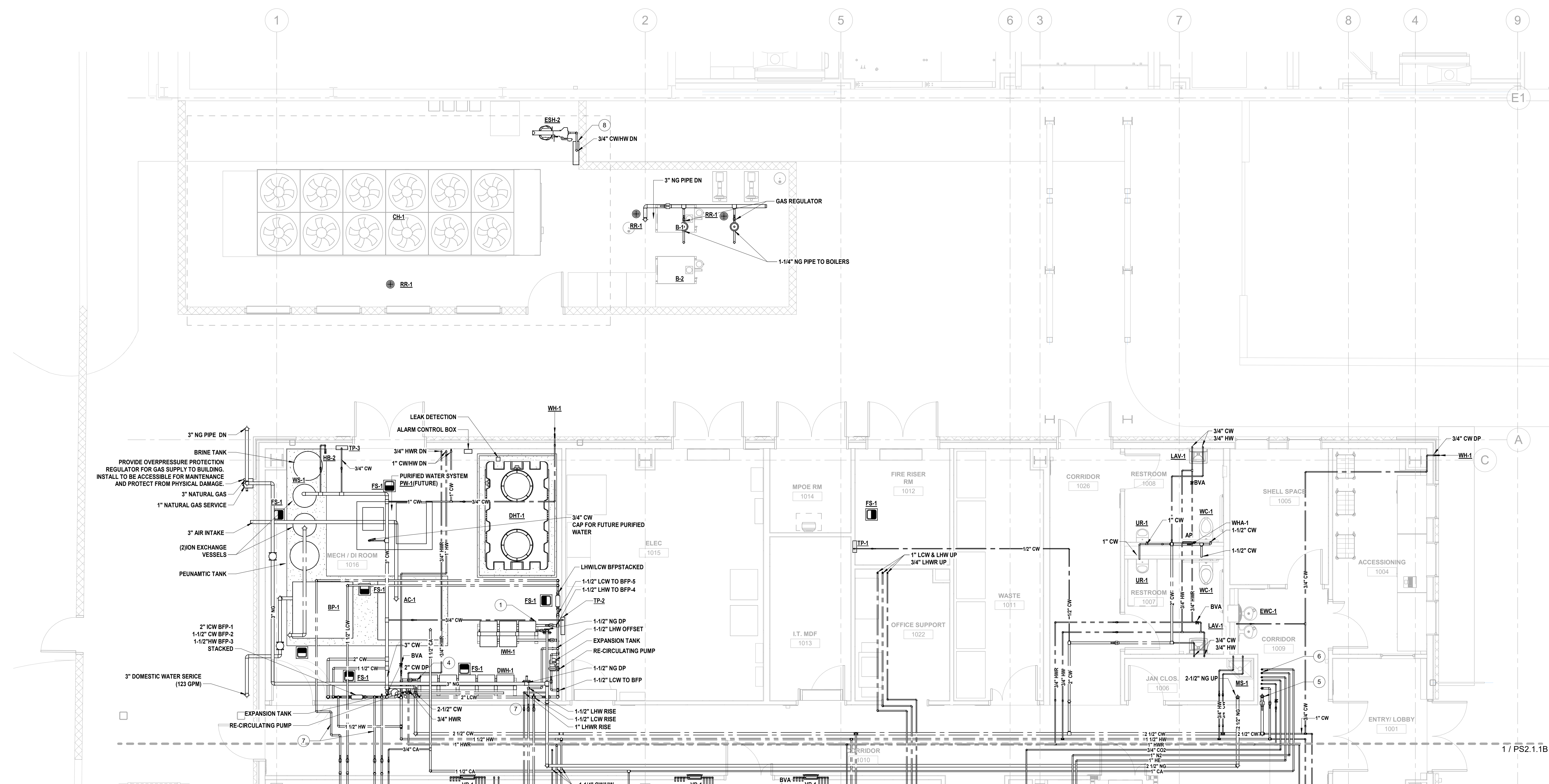
KEY NOTES

- (S)INDUSTRIAL HOT WATER HEATER, INSTANTANEOUS, GAS FIRED WATER HEATERS
- 2" CW TO INDUSTRIAL WATER HEATER
2" ICH FROM INDUSTRIAL WATER HEATER
- (S)DOMESTIC HOT WATER HEATER, INSTANTANEOUS, GAS FIRED WATER HEATERS
- 1-1/2" CW TO DOMESTIC WATER HEATER
1-1/2" HW FROM DOMESTIC WATER HEATER
- 2-1/2" CW UP TO LEVEL 2
1-1/2" HW UP TO LEVEL 2
3/4" HWR UP TO LEVEL 2
- 3/4" CO2 UP TO LEVEL 2
1" N2 UP TO LEVEL 2
1" HE UP TO LEVEL 2
1" CA UP TO LEVEL 2
- PROVIDE ELECTRIC, SELF-REGULATING TEMPERATURE MAINTENANCE CABLE FOR LHW AND DHW (HT-1)
- EMERGENCY SHOWER + EYEWASH W/ ANSI Z358.1 TMV HEATED ENCLOSURE

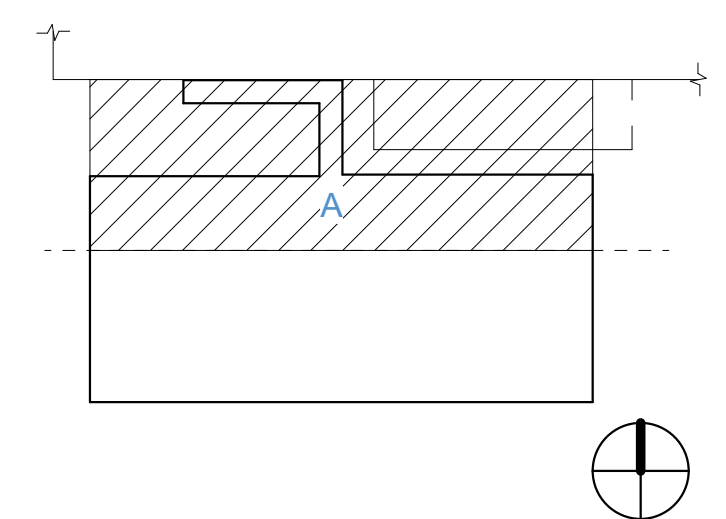
NEW BUILDING GAS CALCULATIONS

NEW BUILDING BSL-3 LABORATORY BUILDING

TAG	EQUIPMENT	BTU's	CFH	GAS PRESSURE		Office
				IN-WC (MIN.)	IN-WC (MAX.)	
AHU-1	AIR HANDLER UNIT (Does not have humidifier)	0	0	N/A	N/A	Office
AHU-2	AIR HANDLER UNIT	360,000	360	6	24	BSL-3
AHU-3	AIR HANDLER UNIT...	305,000	305	6	24	BSL-2
B-1	BOILER	1,000,000	1,000	3.5	14	
B-2	BOILER	1,000,000	1,000	3.5	14	
DHW-1	DOMESTIC HOT WATER HEATER	199,000	199	4	10.5	
DHW-2	DOMESTIC HOT WATER HEATER	199,000	199	4	10.5	
DHW-3	DOMESTIC HOT WATER HEATER	199,000	199	4	10.5	
DHW-4	DOMESTIC HOT WATER HEATER	199,000	199	4	10.5	
DHW-5	DOMESTIC HOT WATER HEATER	199,000	199	4	10.5	
IHW-1	INDUSTRIAL HOT WATER...	199,000	199	4	10.5	
IHW-2	INDUSTRIAL HOT WATER...	199,000	199	4	10.5	
IHW-3	INDUSTRIAL HOT WATER...	199,000	199	4	10.5	
IHW-4	INDUSTRIAL HOT WATER...	199,000	199	4	10.5	
IHW-5	INDUSTRIAL HOT WATER...	199,000	199	4	10.5	
				4,655	CFH (Total)	



KEY PLAN



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Tony Castro
PLUMBING MODEL LEAD
Tina Kawagishi

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E		ISSUED FOR GC BIDDING	11.08.2024
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Southern Nevada Health District
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DRAWN BY TK DATE 11.08.2024
PROJECT NO. 20230523 SCALE 1/4" = 1'-0"

DRAWING NAME
FLOOR PLAN LEVEL 1 SECTOR A - PIPING

FLOOR/SECTION PHASE DRAWING NO.

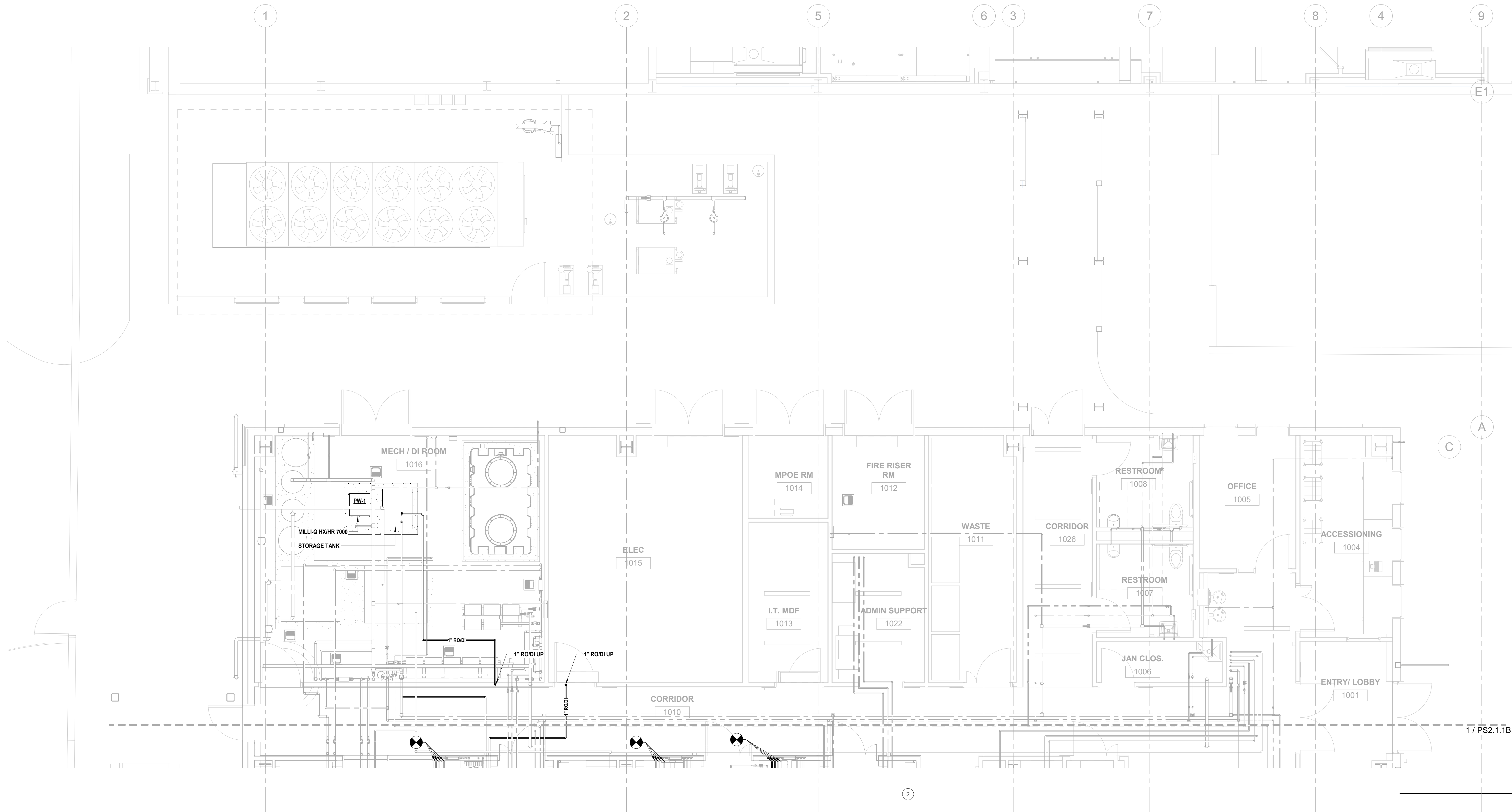
NOT FOR CONSTRUCTION **CD PS2.1.1A**

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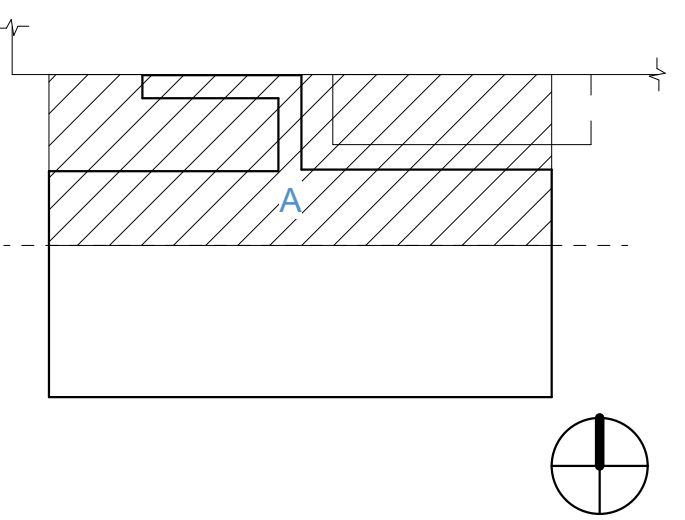
1 LEVEL 1 PIPING - SECTOR A
SCALE: 1/4" = 1'-0"

GENERAL NOTES

- COORDINATE PLUMBING WORK WITH OTHER TRADES.
- SHUT-OFF VALVES ISOLATING FUTURE DOMESTIC AND LABORATORY WATER PIPE DISTRIBUTION SHALL BE INSTALLED WITHIN 6" PIPE DIAMETER OF ACTIVE WATER DISTRIBUTION AND NORMALLY CLOSED.
- FUTURE DOMESTIC AND LABORATORY WATER PIPING SHALL BE AIRPRESSURE TESTED FOR PIPE INTEGRITY, ONLY. DISINFECTION OF FUTURE PIPE DISTRIBUTION SHALL BE CONDUCTED IN PHASE 2 WORK. CONTRACTOR SHALL MAKE PROVISIONS TO DO THIS WORK.
- AFTER FUTURE COMPRESSED GAS HAS BEEN TESTED AND CERTIFIED, PIPING SHALL BE FILLED AND HOLD COMPRESSED NITROGEN GAS UP TO 5-PSI TO MAINTAIN INSIDE PIPE INTEGRITY TO PHASE 2 SCOPE OF WORK.



KEY PLAN



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PROJECT NO. 20230523 SCALE 1/4" = 1'-0"

DRAWING NAME

FLOOR PLAN LEVEL 1 SECTOR A - PIPING PHASE 2

FLOOR/SECTION PHASE DRAWING NO.

CD PS2.1.1A.2

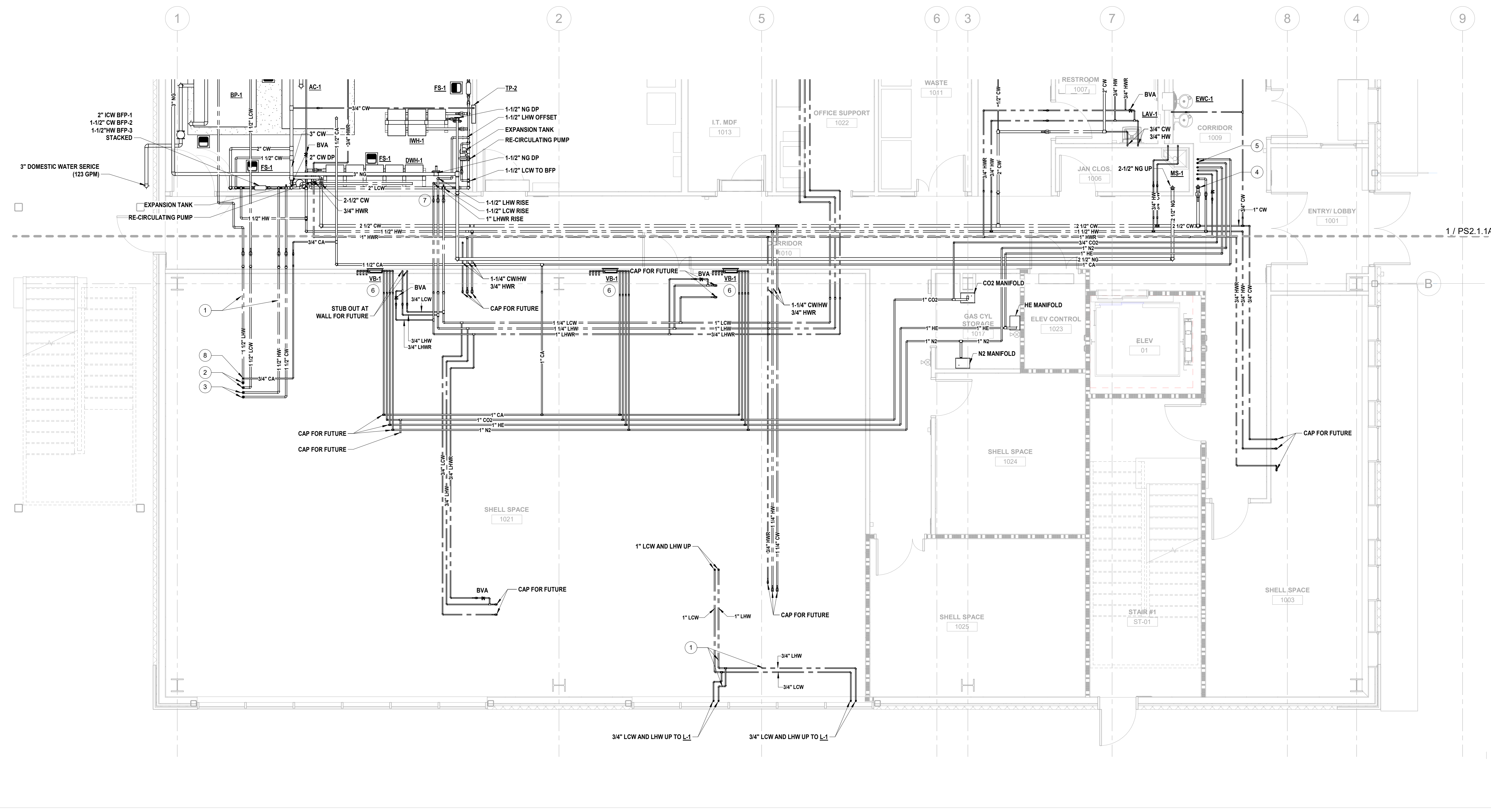
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GENERAL NOTES

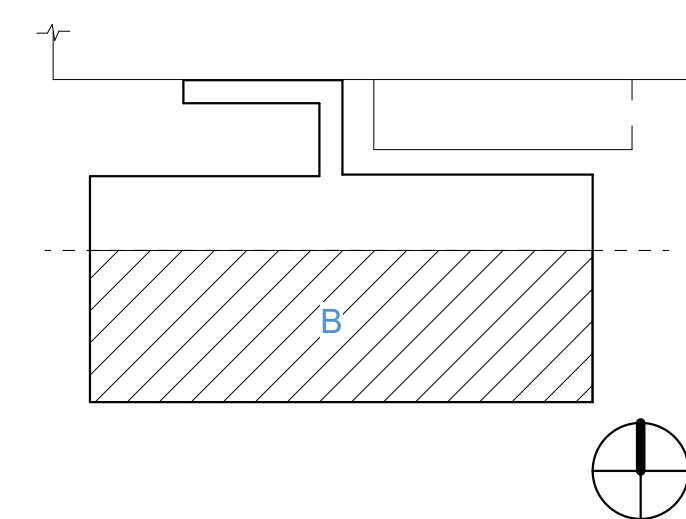
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KEY NOTES

- PROVIDE ELECTRIC, SELF-REGULATING TEMPERATURE MAINTENANCE CABLE FOR LHW AND DHW (HT-1)
- 1-1/2" LCW & LHW UP TO BSL3 LABS ON LEVEL 2. COORDINATE LOCATION IN SHAFT WITH MECHANICAL DUCT
- 1-1/2" DCW & DHW UP TO BSL3 LABS ON LEVEL 2. COORDINATE LOCATION IN SHAFT WITH MECHANICAL DUCT
- 2-1/2" CW UP TO LEVEL 2
1-1/2" HW UP TO LEVEL 2
3/4" HWR UP TO LEVEL 2
- 3/4" CO2 UP TO LEVEL 2
1" N2 UP TO LEVEL 2
1" HE UP TO LEVEL 2
1" CA UP TO LEVEL 2
- 3/4" N2 PIPING TO LAB BENCH
3/4" HE PIPING TO LAB BENCH
3/4" CA PIPING TO LAB BENCH
STUB OUT AT WALL FOR FUTURE.
- 1-1/2" LHW VALVE FOR PHASE 2, NORMALLY CLOSED
1-1/2" LCW VALVE FOR PHASE 2, NORMALLY CLOSED
1" LHW VALVE FOR PHASE 2, NORMALLY CLOSED
- 3/4" CA UP



KEY PLAN



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DRAWN BY TK DATE 11.08.2024

PROJECT NO. 20230523 SCALE 1/4" = 1'-0"

DRAWING NAME

FLOOR PLAN LEVEL 1 SECTOR B - PIPING

FLOOR/SECTION PHASE DRAWING NO.

NOT FOR CONSTRUCTION

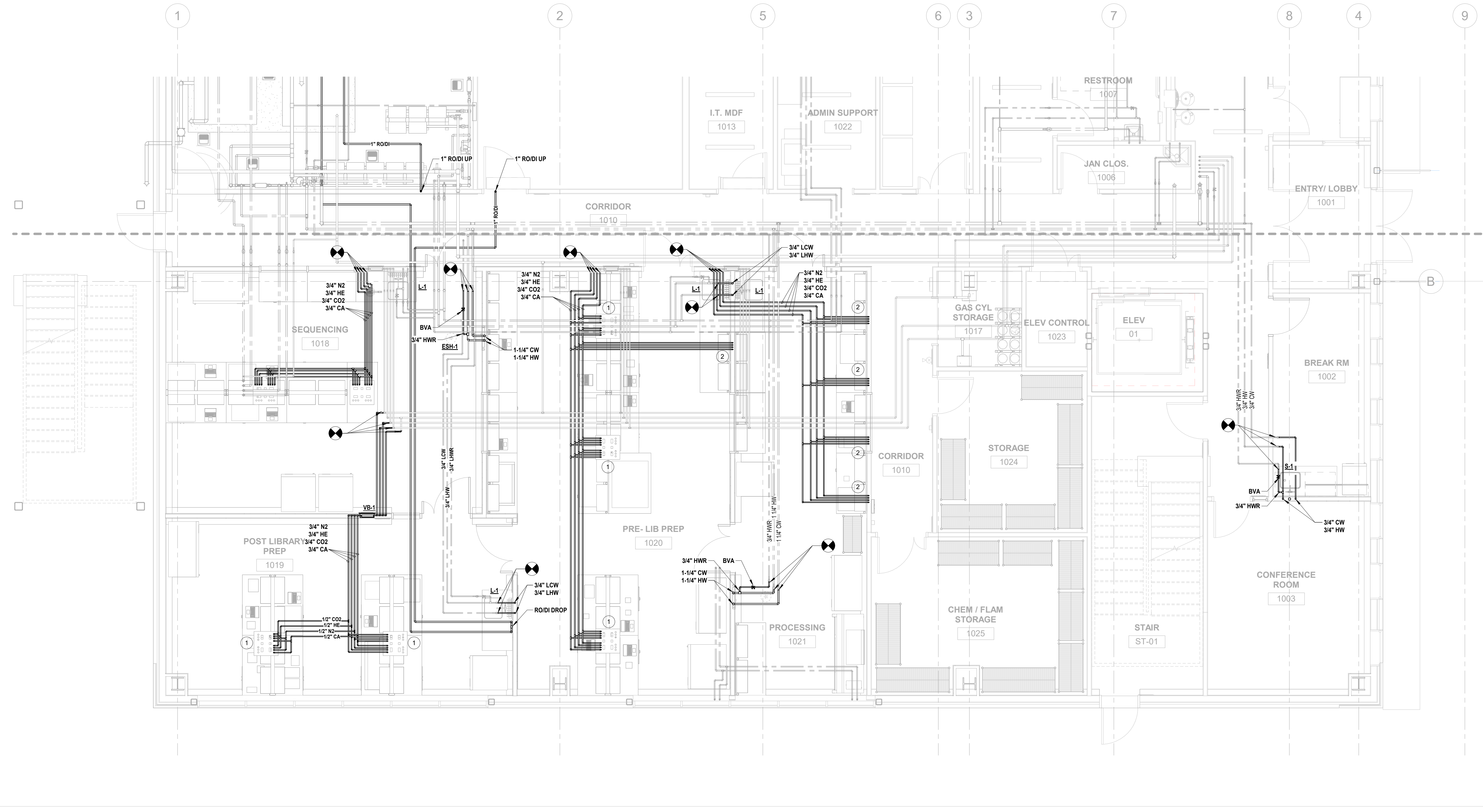
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GENERAL NOTES

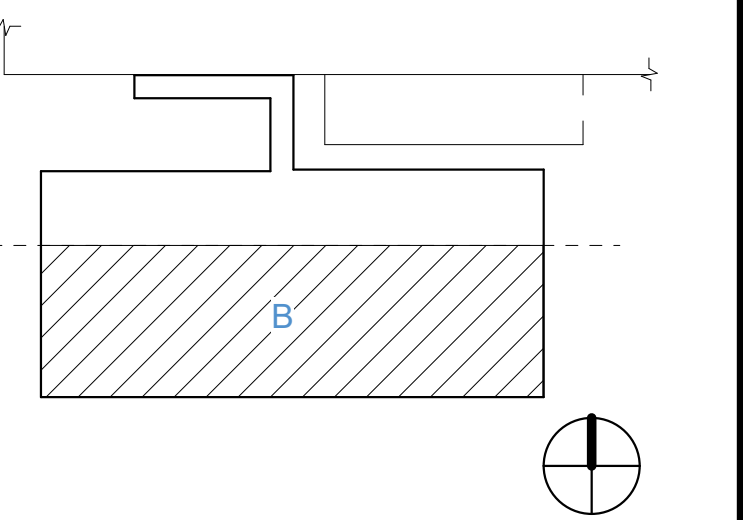
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KEY NOTES

- 1/2" CA, 1/2" HE, 1/2" CO2 AND 1/2" N2 TO LAB BENCHES TO TERMINATE WITH CEILING UTILITY PANEL QUICK DISCONNECT UNIT
- 1/2" CA, 1/2" HE, 1/2" CO2 AND 1/2" N2 TO LAB BENCHES TO TERMINATE HIGH ON THE WALL WITH QUICK CONNECT UNIT



KEY PLAN



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PROJECT NO. 20230523 SCALE 1/4" = 1'-0"

DRAWING NAME

FLOOR PLAN LEVEL 1 SECTOR B - PIPING PHASE 2

FLOOR/SECTION PHASE DRAWING NO.

NOT FOR CONSTRUCTION

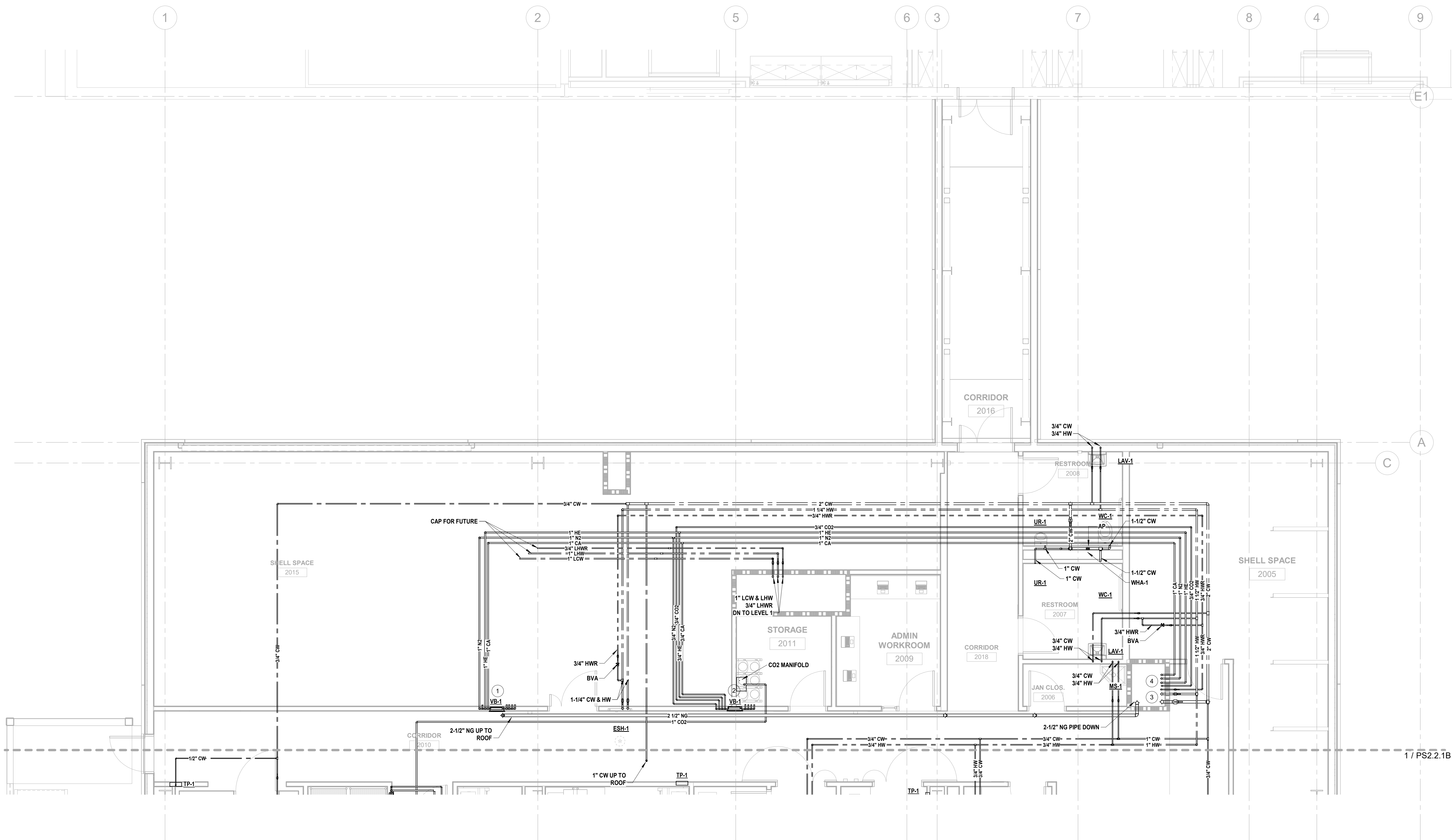
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GENERAL NOTES

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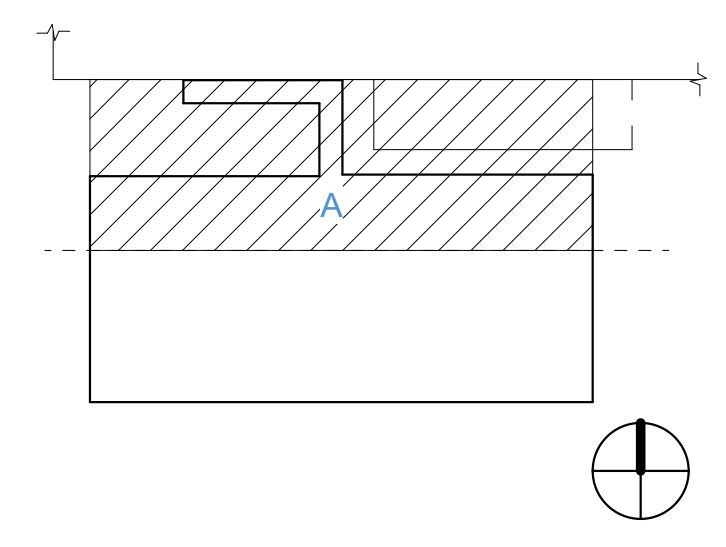
KEY NOTES

- 3/4" N2 PIPING TO LAB BENCH
3/4" HE PIPING TO LAB BENCH
3/4" CA PIPING TO LAB BENCH
STUB OUT AT WALL FOR FUTURE.
- 3/4" CO2 PIPING TO LAB BENCH
1" N2 PIPING TO LAB BENCH
1" HE PIPING TO LAB BENCH
1" CA PIPING TO LAB BENCH
STUB OUT AT WALL FOR FUTURE.
- 2-1/2" CW DN TO LEVEL 1
1-1/2" HW DN TO LEVEL 1
3/4" HWR DN TO LEVEL 1
- 3/4" CO2 DN TO LEVEL 1
1" N2 DN TO LEVEL 1
1" HE DN TO LEVEL 1
1" CA DN TO LEVEL 1



1 LEVEL 2 PIPING - SECTOR A
SCALE: 1/4" = 1'-0"

KEY PLAN



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FLOOR PLAN LEVEL 2 SECTOR A - PIPING

FLOOR/SECTION PHASE DRAWING NO.

NOT FOR CONSTRUCTION

CD PS2.2.1A

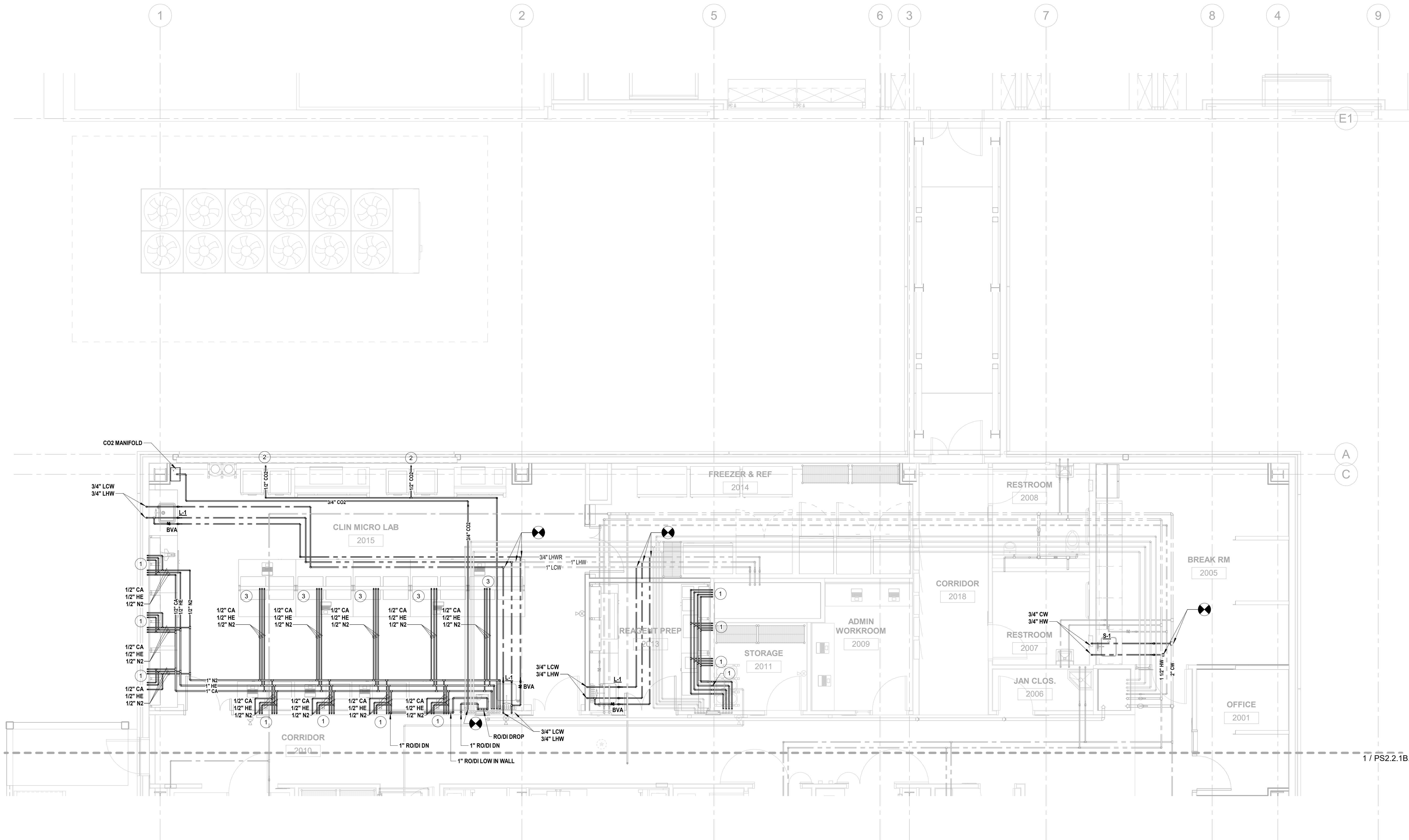
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GENERAL NOTES

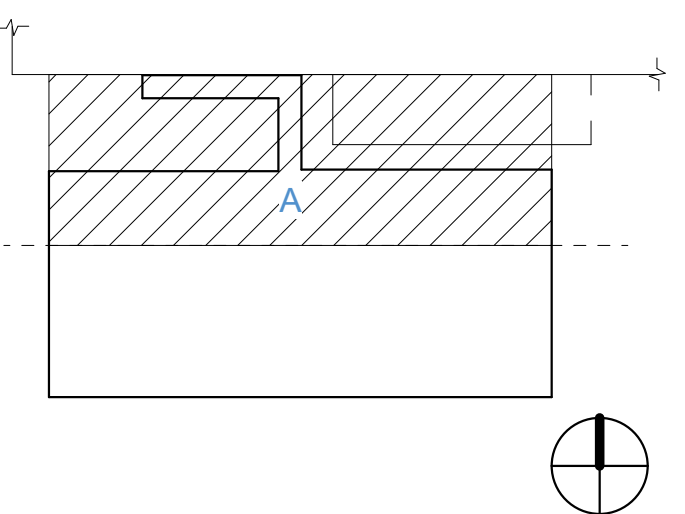
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KEY NOTES

- 1/2" CA, 1/2" HE AND 1/2" N2 TO LAB BENCHES TO TERMINATE HIGH ON THE WALL WITH QUICK CONNECT UNIT
- 1/2" CO2 DROP
- 1/2" CA, 1/2" HE AND 1/2" N2 TO LAB BENCHES TO TERMINATE WITH CEILING QUICK DISCONNECT UNIT



KEY PLAN



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DRAWING NAME

FLOOR PLAN LEVEL 2 SECTOR A - PIPING PHASE 2

FLOOR/SECTION PHASE DRAWING NO.

CD PS2.2.1A.2

1 LEVEL 2 PIPING PLAN - PHASE 2 - SECTOR A
SCALE: 1/4" = 1'-0"

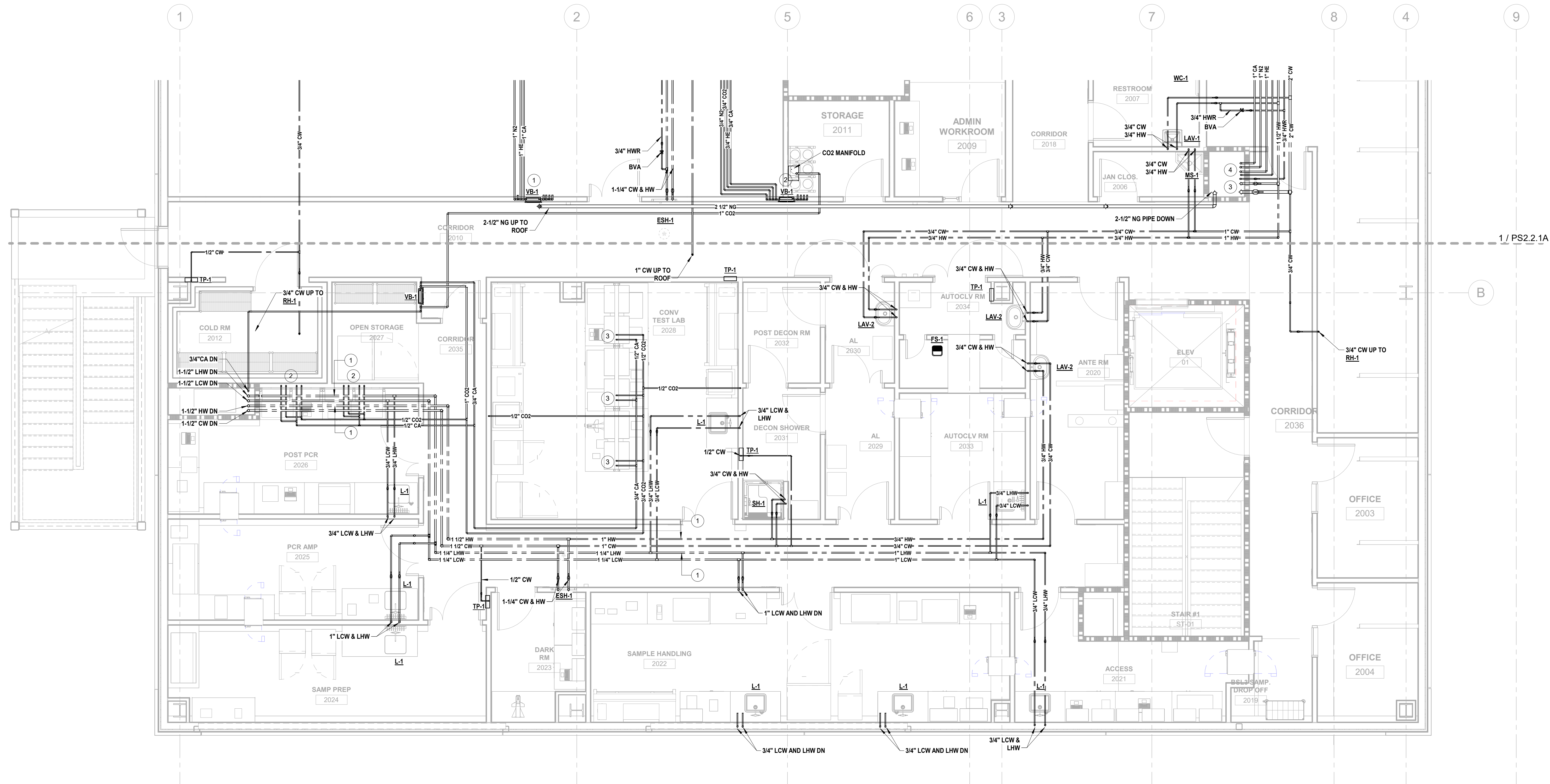
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GENERAL NOTES

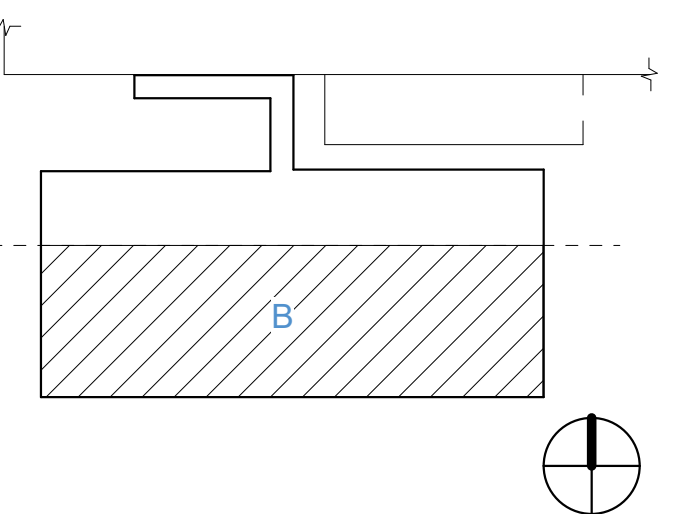
- COORDINATE PLUMBING WORK WITH OTHER TRADES.

KEY NOTES

- PROVIDE ELECTRIC, SELF-REGULATING CABLE FOR LHW AND DHW (HT-1)
- 1/2" CA, 1/2" HE, 1/2" CO2 AND 1/2" N2 TO LAB BENCHES TO TERMINATE HIGH ON THE WALL WITH QUICK CONNECT UNIT
- 1/2" CA, 1/2" HE, 1/2" CO2 AND 1/2" N2 TO LAB BENCHES TO TERMINATE WITH CEILING QUICK CONNECT UNIT



KEY PLAN



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DRAWING NAME

FLOOR PLAN LEVEL 2 SECTOR B- PIPING

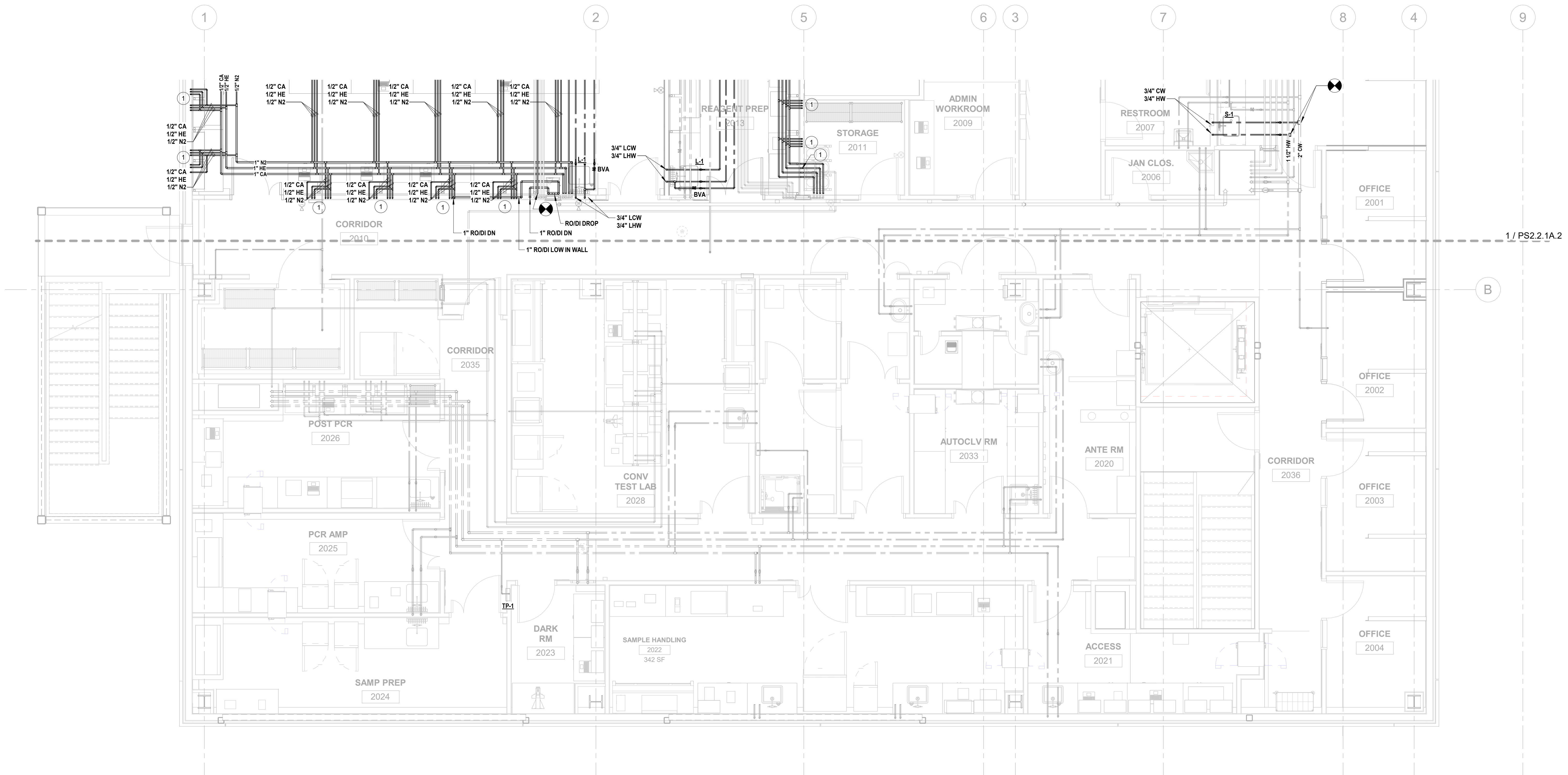
FLOOR/SECTION PHASE DRAWING NO.

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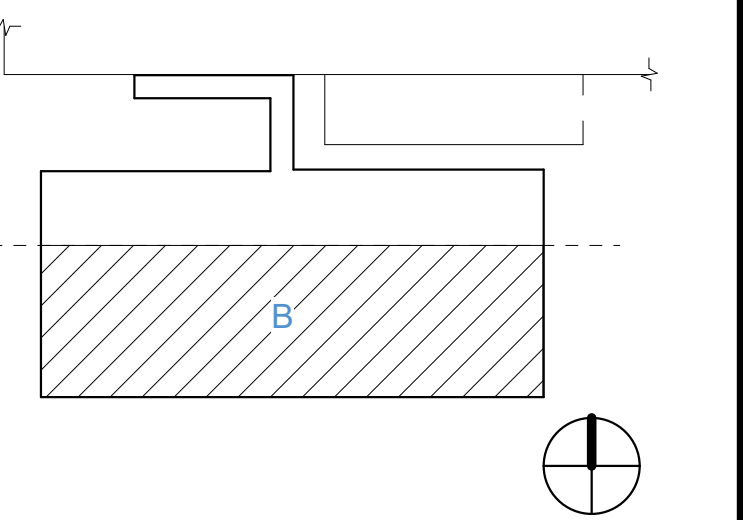
CD PS2.2.1B

GENERAL NOTES

1. COORDINATE PLUMBING WORK WITH OTHER TRADES.



KEY PLAN



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PROJECT NO. 20230523 SCALE 1/4" = 1'-0"

DRAWING NAME

FLOOR/SECTION PHASE 2

FLOOR/SECTION PHASE DRAWING NO.

NOT FOR CONSTRUCTION

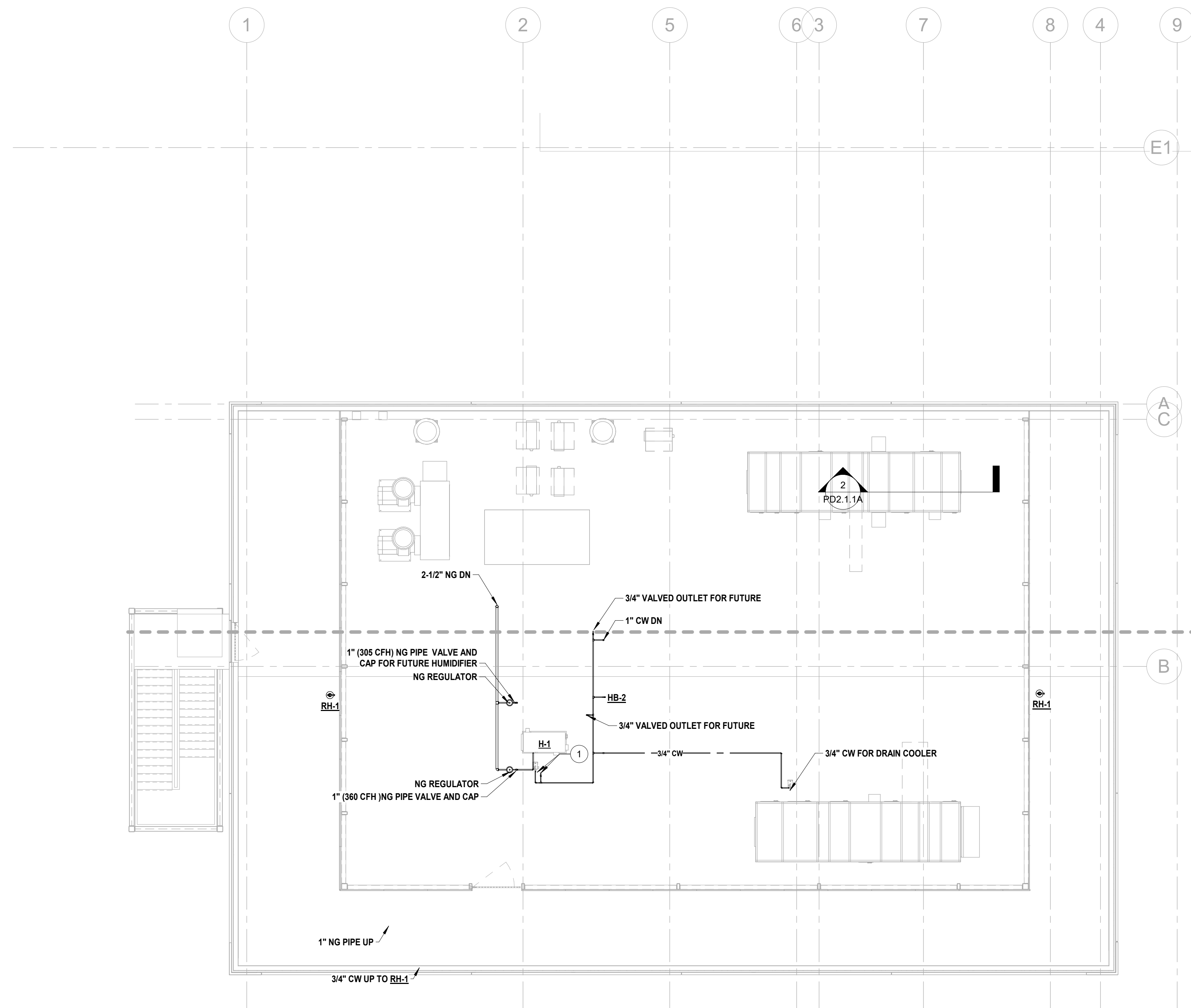
CD PS2.2.1B.2

GENERAL NOTES

1. COORDINATE PLUMBING WORK WITH OTHER TRADES.

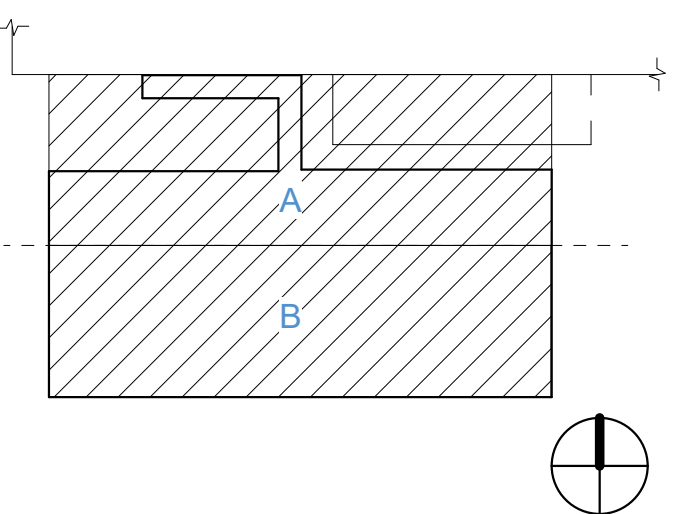
KEY NOTES

1. 3/4" CW TO DRAIN COOLER
3/4" CW MAKE UP WATER FOR HUMIDIFIER

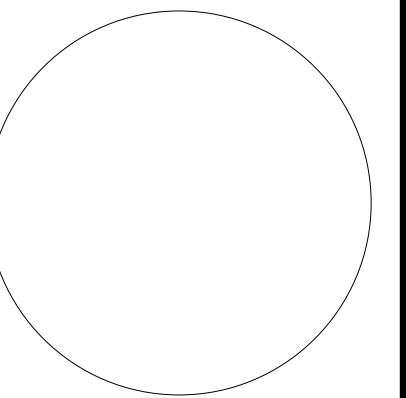


1. ROOF - PIPING PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



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DRAWING NAME

ROOF - PIPING

FLOOR/SECTION PHASE DRAWING NO.

NOT FOR CONSTRUCTION

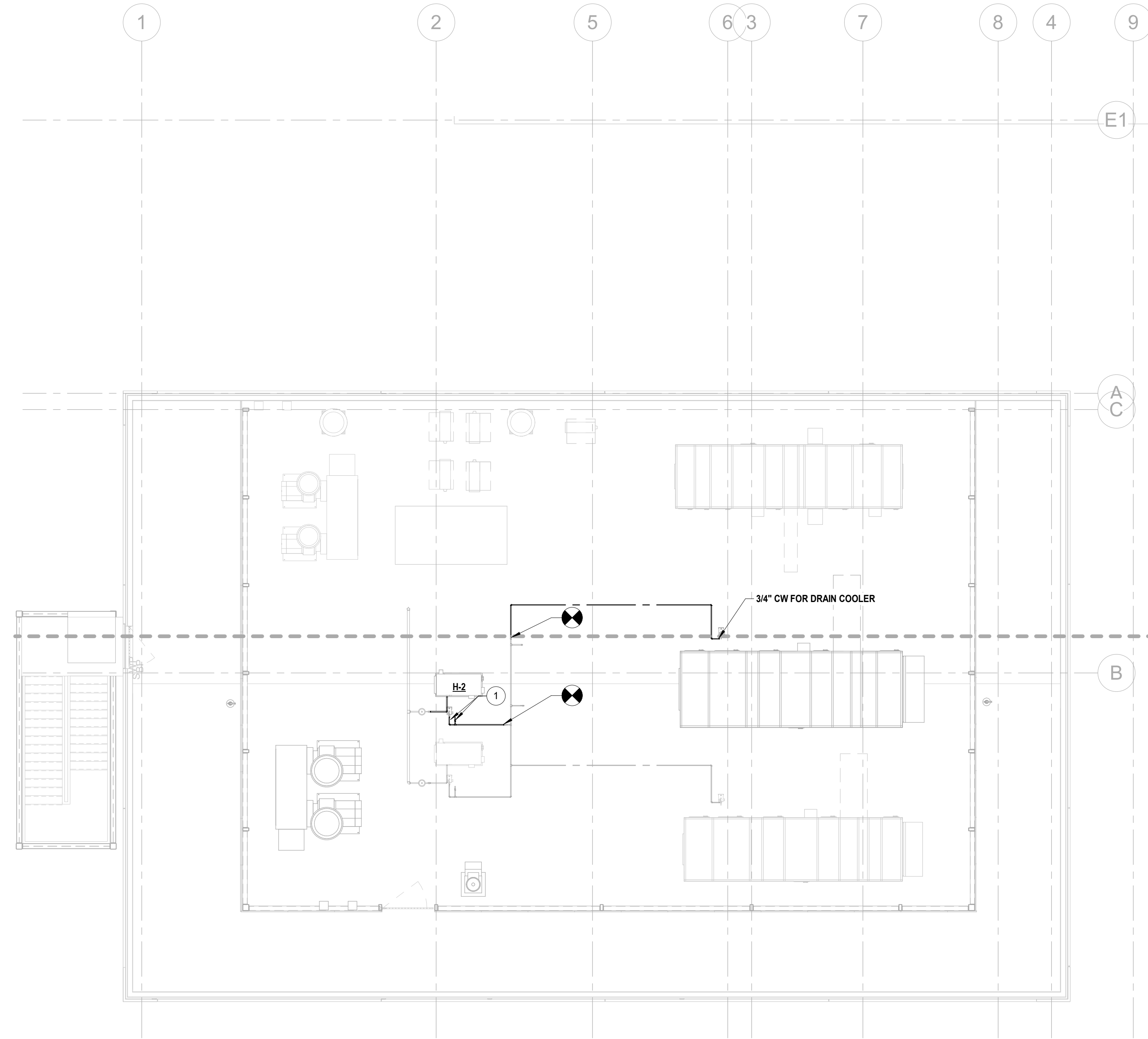
CD PS2.3.1

GENERAL NOTES

1. COORDINATE PLUMBING WORK WITH OTHER TRADES.

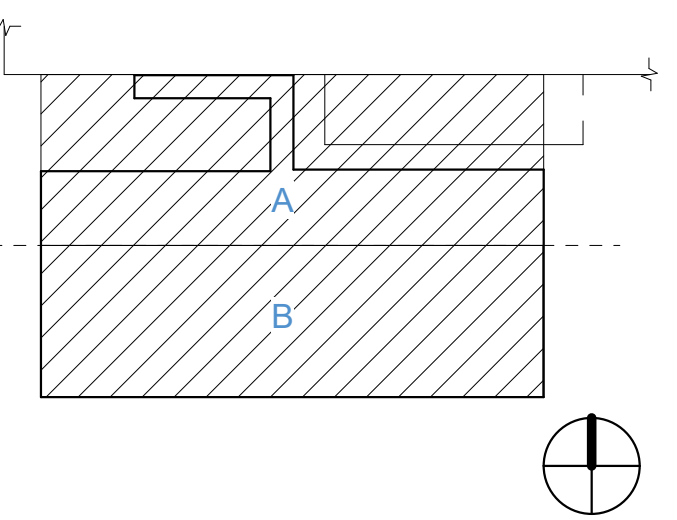
KEY NOTES

1. 3/4" CW TO DRAIN COOLER
3/4" CW MAKE UP WATER FOR HUMIDIFIER

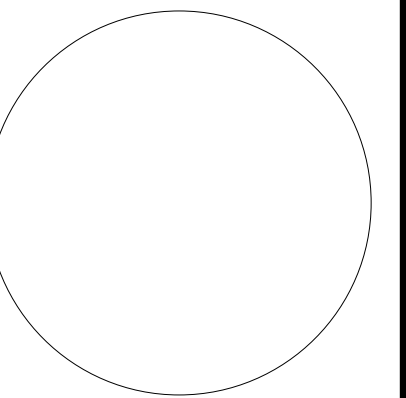


1. ROOF PIPING PLAN - Phase 2
SCALE: 1/8" = 1'-0"

KEY PLAN



PRINCIPAL
David Keith
RESEARCH PLANNER
Steph Vargas
PROJECT ENGINEER
Tony Castro
PLUMBING MODEL LEAD
Tina Kawagishi



REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D			10.11.2024

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

DRAWN BY TK DATE 11.08.2024

PROJECT NO. 20230523 SCALE 1/8" = 1'-0"

DRAWING NAME

ROOF - PIPING - PHASE 2

FLOOR/SECTION PHASE DRAWING NO.

NOT FOR CONSTRUCTION

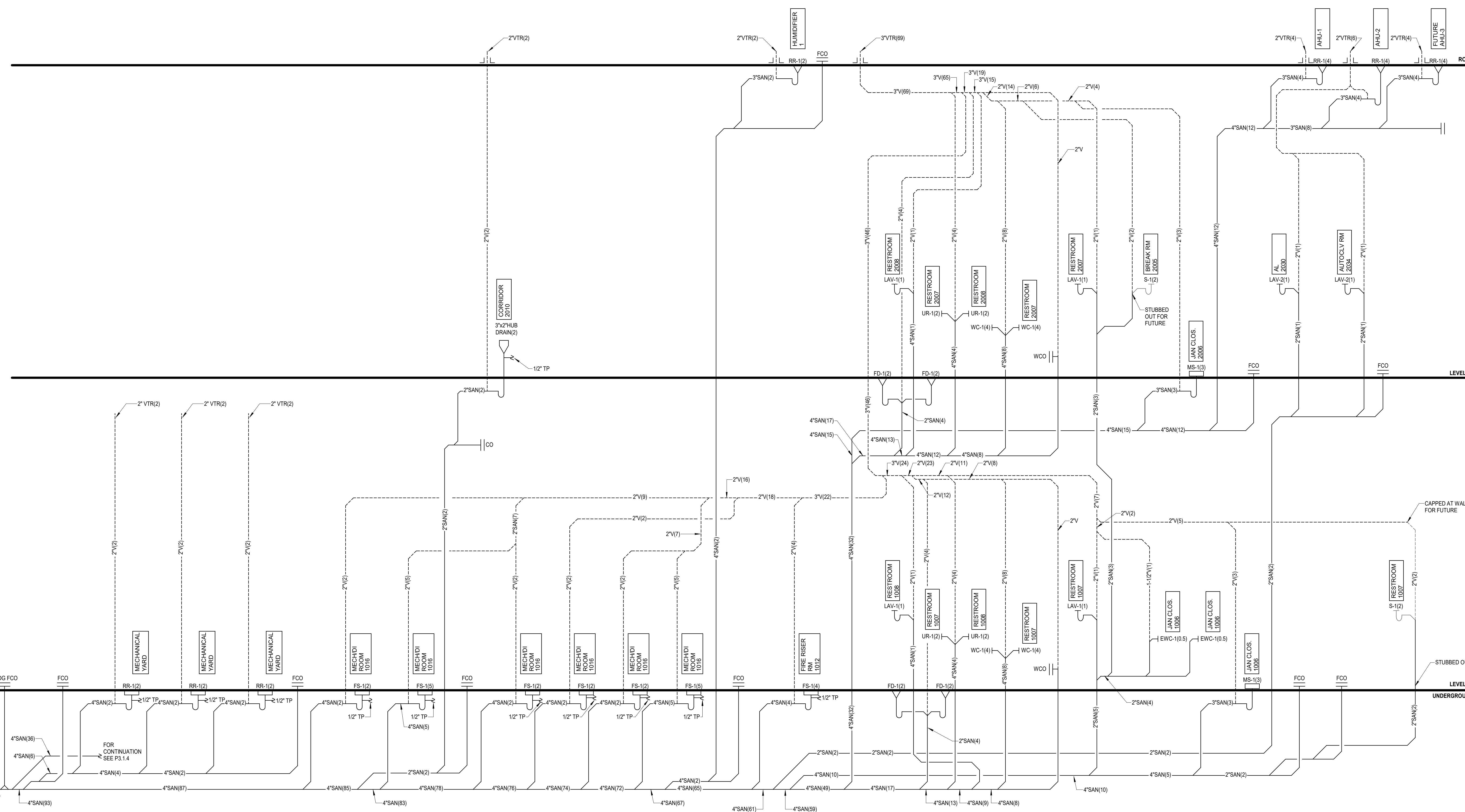
CD PS2.3.2

GENERAL NOTES

1. REFER TO P3.1.6 DOMESTIC WATER RISER DIAGRAM FOR TRAP PRIMER CONNECTIONS.

LEGEND

- VENT PIPING
- FUTURE VENT PIPING
- WASTE PIPING
- FUTURE WASTE PIPING



KEY PLAN

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Southern Nevada Health District
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Las Vegas, NV 89106

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PROJECT NO. 20230523 SCALE

DRAWING NAME
SANITARY WASTE AND VENT RISER DIAGRAM

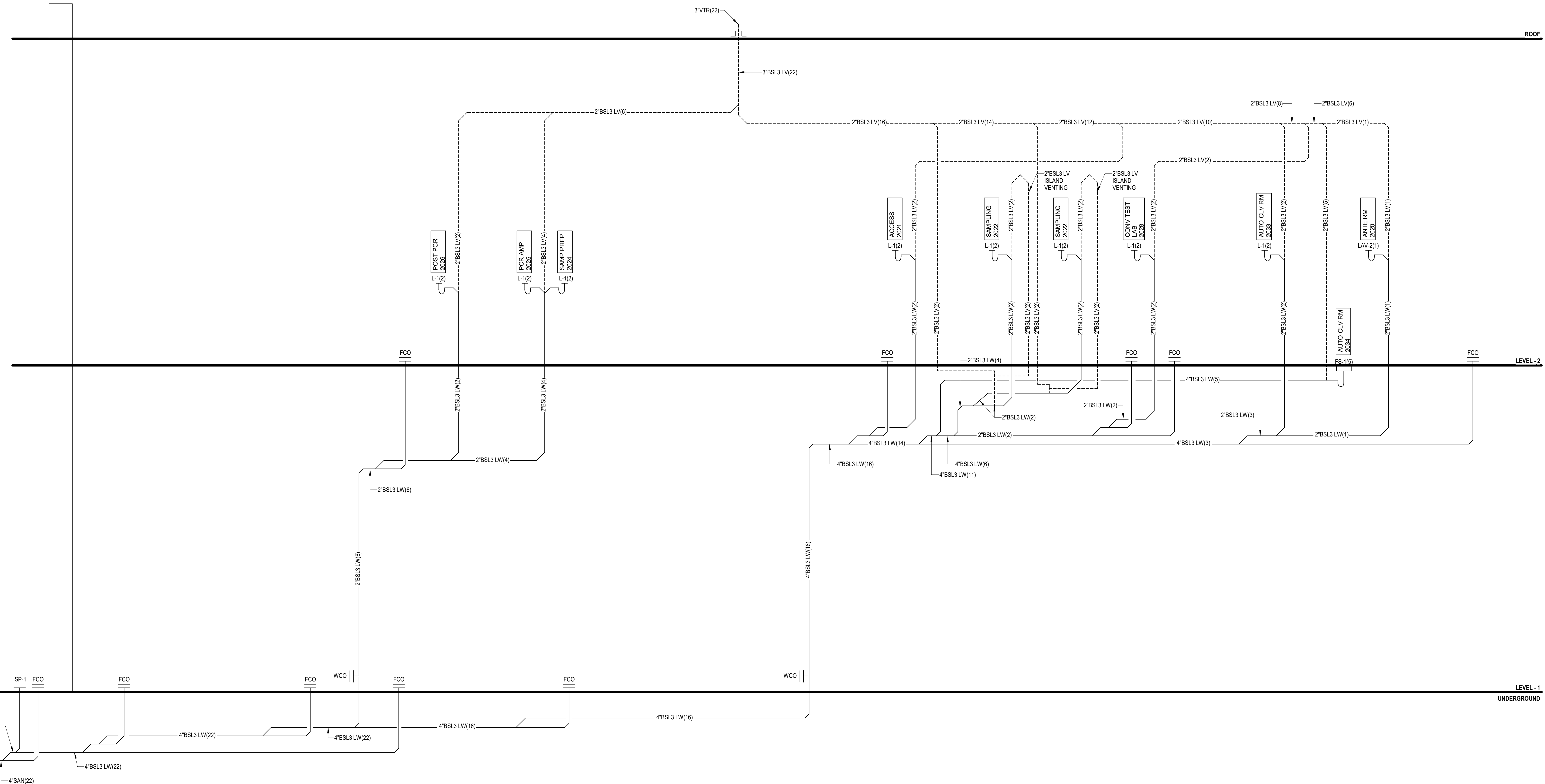
FLOOR/SECTION PHASE DRAWING NO.

NOT FOR CONSTRUCTION

CD P3.1.1

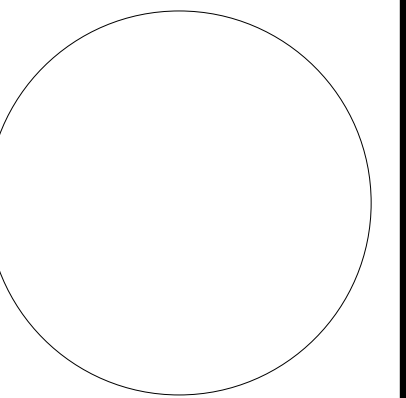
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GENERAL NOTES



KEY PLAN

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PROJECT NO. 20230523 SCALE 1/2" = 1'-0"

DRAWING NAME

BSL3 LAB WASTE RISER DIAGRAM

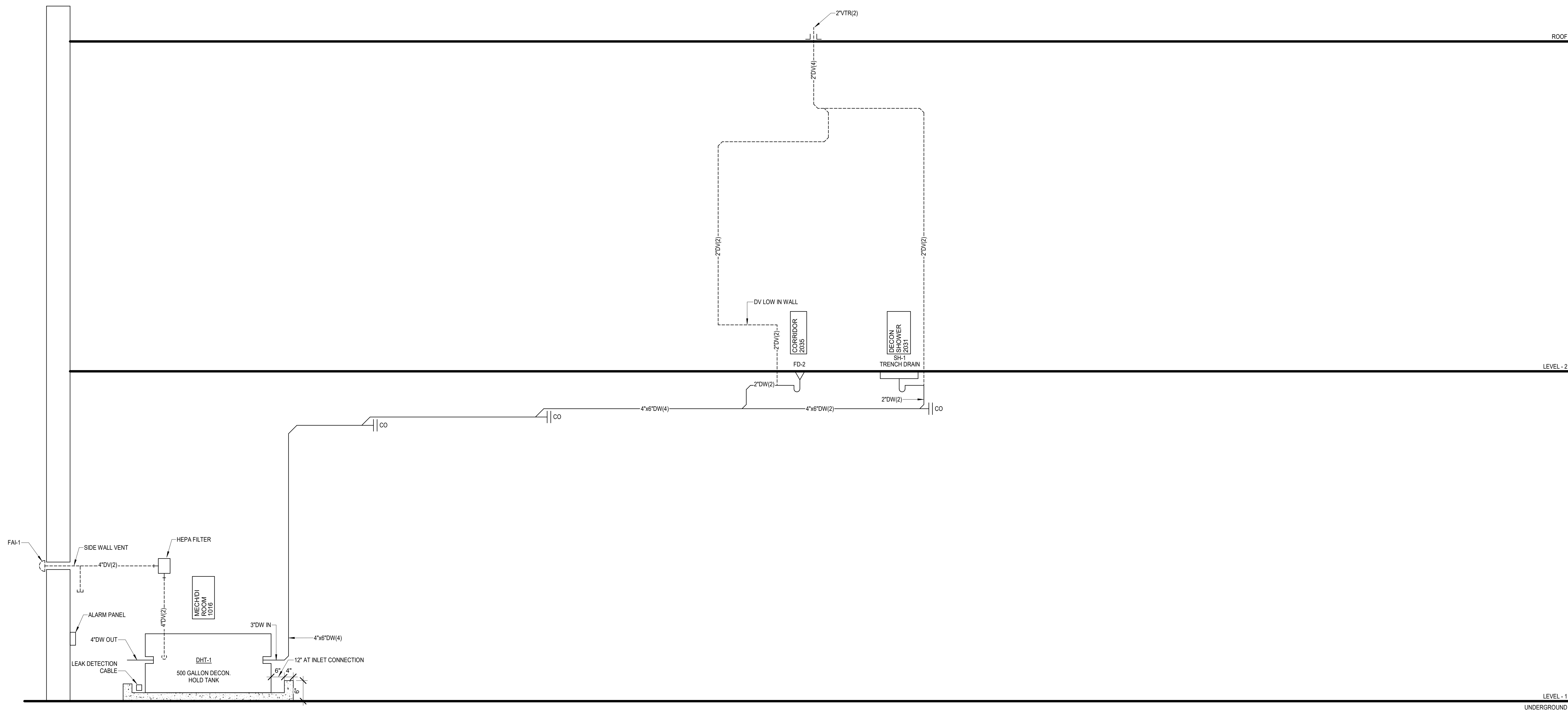
FLOOR/SECTION PHASE DRAWING NO.

NOT FOR CONSTRUCTION

CD P3.1.2

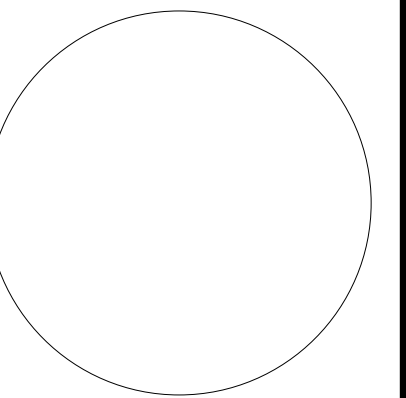
GENERAL NOTES

1. DECONTAMINATE WASTE WILL BE 4"x6" DOUBLE CONTAINMENT PIPING



KEY PLAN

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PROJECT NO. 20230523 SCALE _____

DRAWING NAME _____

DECONTAMINATE WASTE RISER DIAGRAM

FLOOR/SECTION PHASE _____ DRAWING NO. _____

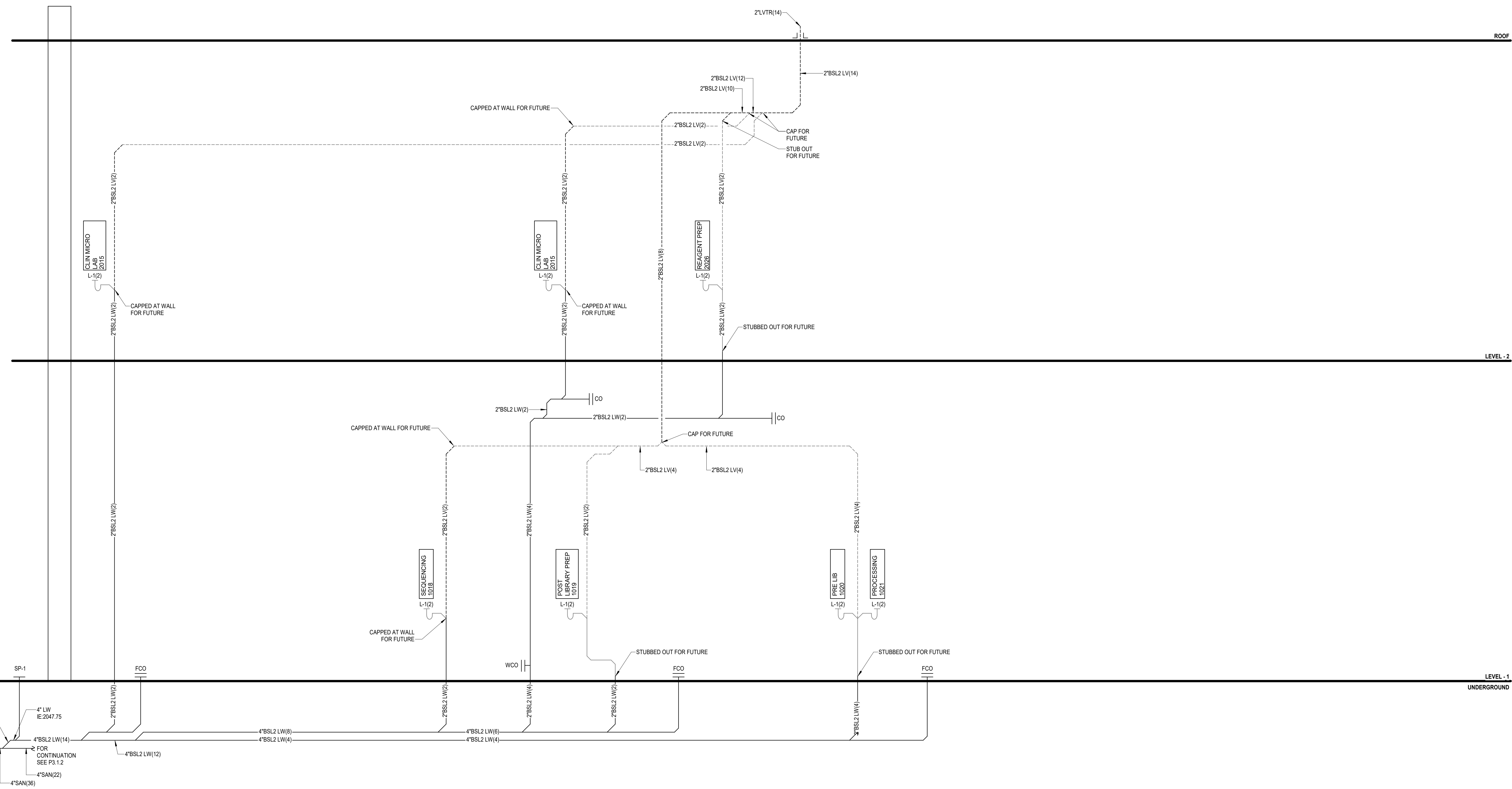
NOT FOR CONSTRUCTION

CD P3.1.3

GENERAL NOTES

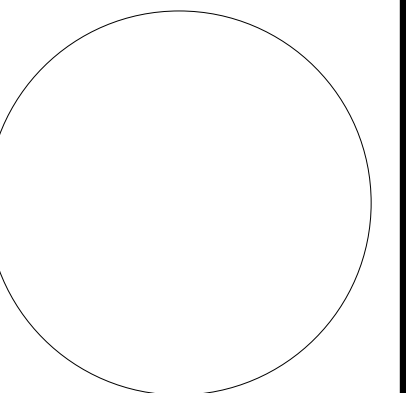
LEGEND

- VENT PIPING
- FUTURE VENT PIPING
- WASTE PIPING
- FUTURE WASTE PIPING



KEY PLAN

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Tina Kawagishi



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PROJECT NO. 20230523 SCALE _____

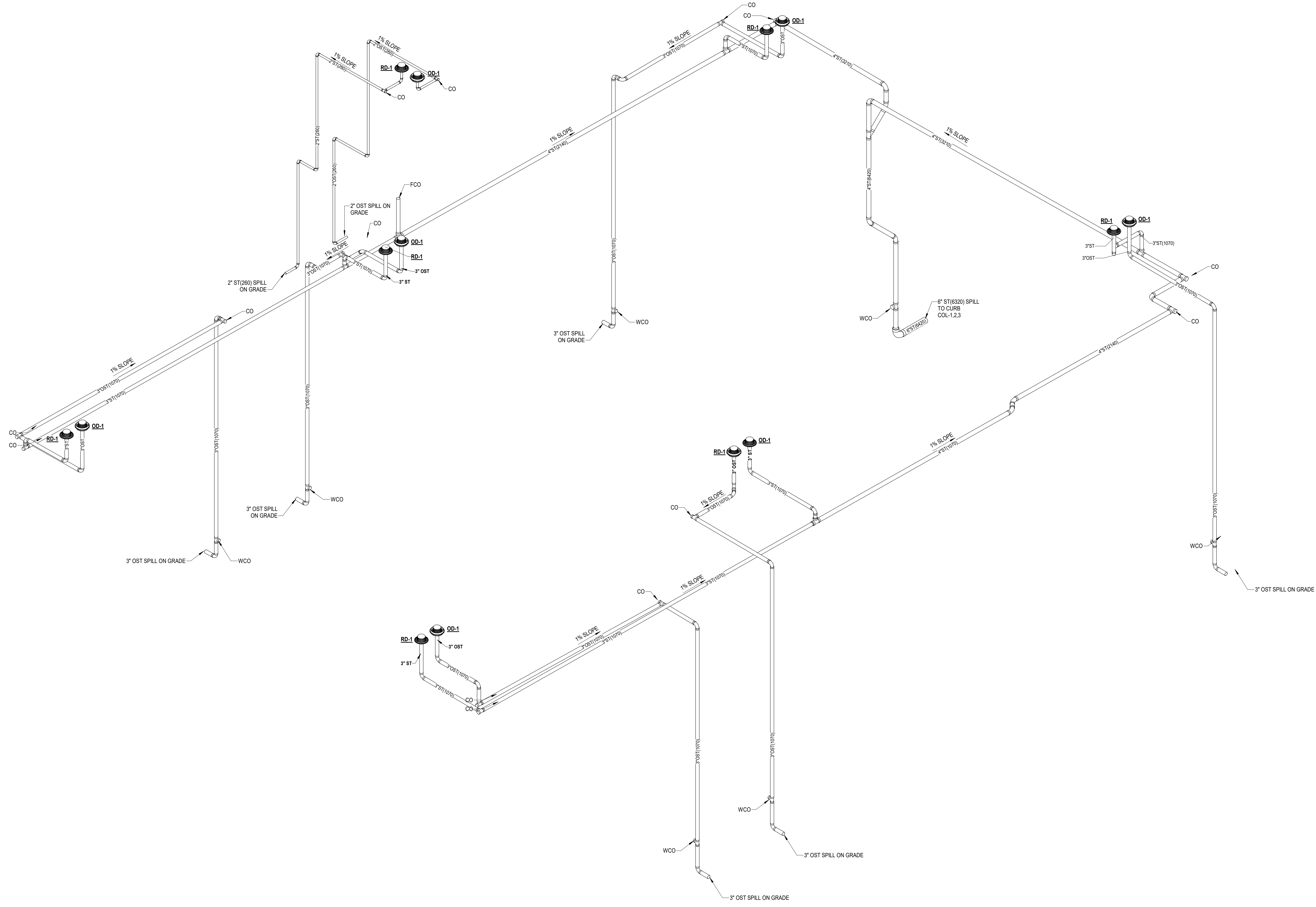
DRAWING NAME _____

BSL2 LAB WASTE RISER DIAGRAM (FUTURE)

FLOOR/SECTION PHASE DRAWING NO.

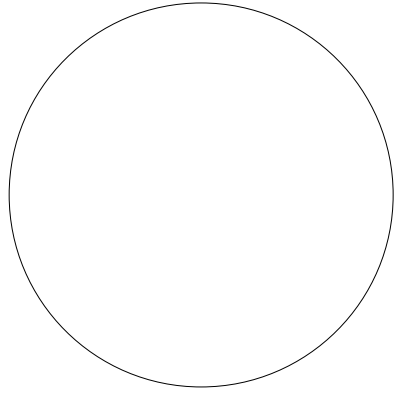
NOT FOR CONSTRUCTION

CD P3.1.4



KEY PLAN

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DRAWING NAME _____

STORM DRAIN RISER DIAGRAM

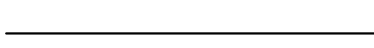

FLOOR/SECTION PHASE _____ DRAWING NO. _____

NOT FOR CONSTRUCTION

CD P3.1.5

GENERAL NOTES

LEGEND

-  CW PIPING
-  FUTURE WASTE PIPING

KEY PLAN

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Tina Kawagishi

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PROJECT NO. 20230523 SCALE _____

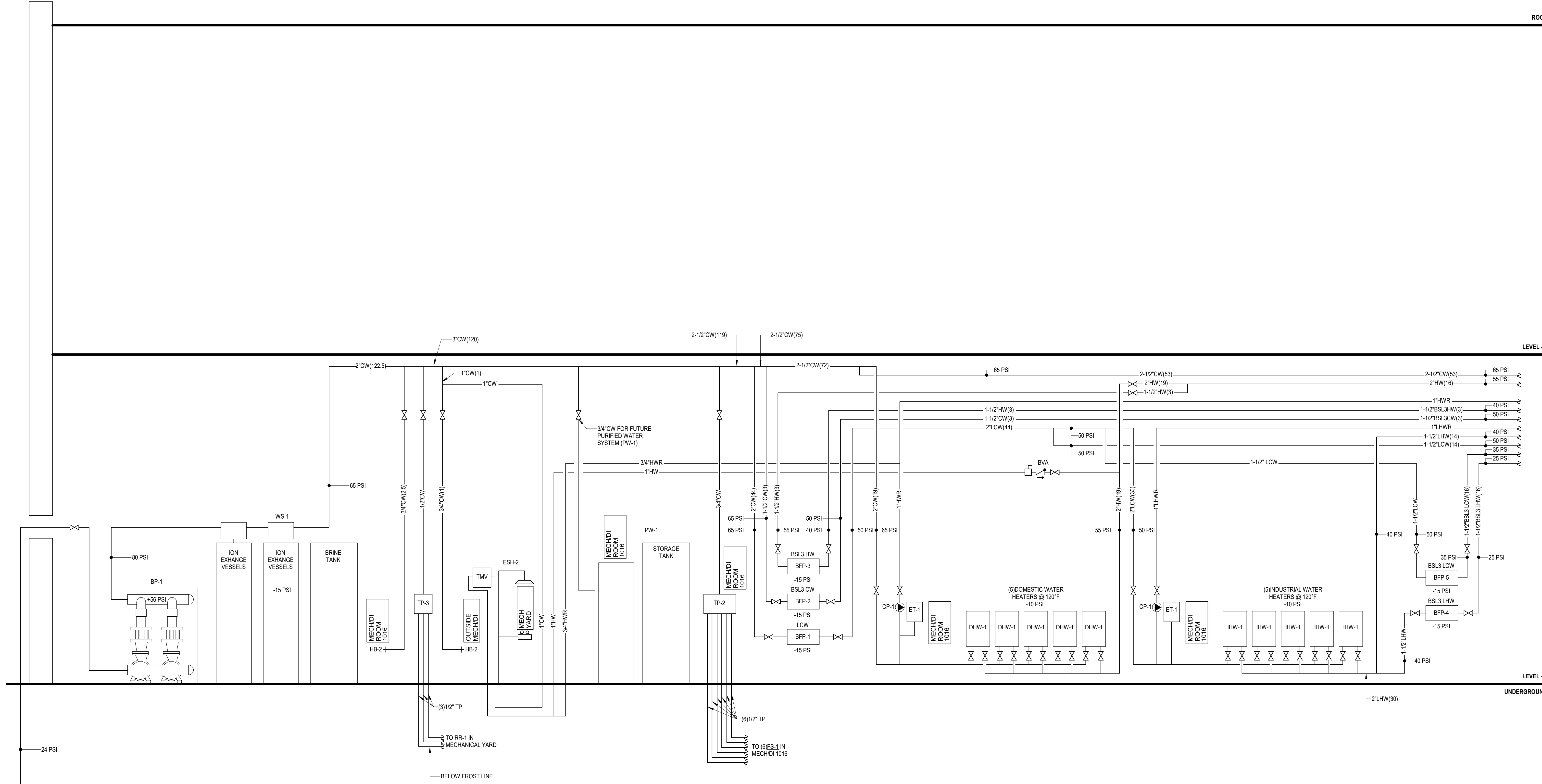
DRAWING NAME _____

WATER GENERATION RISER DIAGRAM

FLOOR/SECTION PHASE _____ DRAWING NO. _____

NOT FOR CONSTRUCTION

CD P3.1.6



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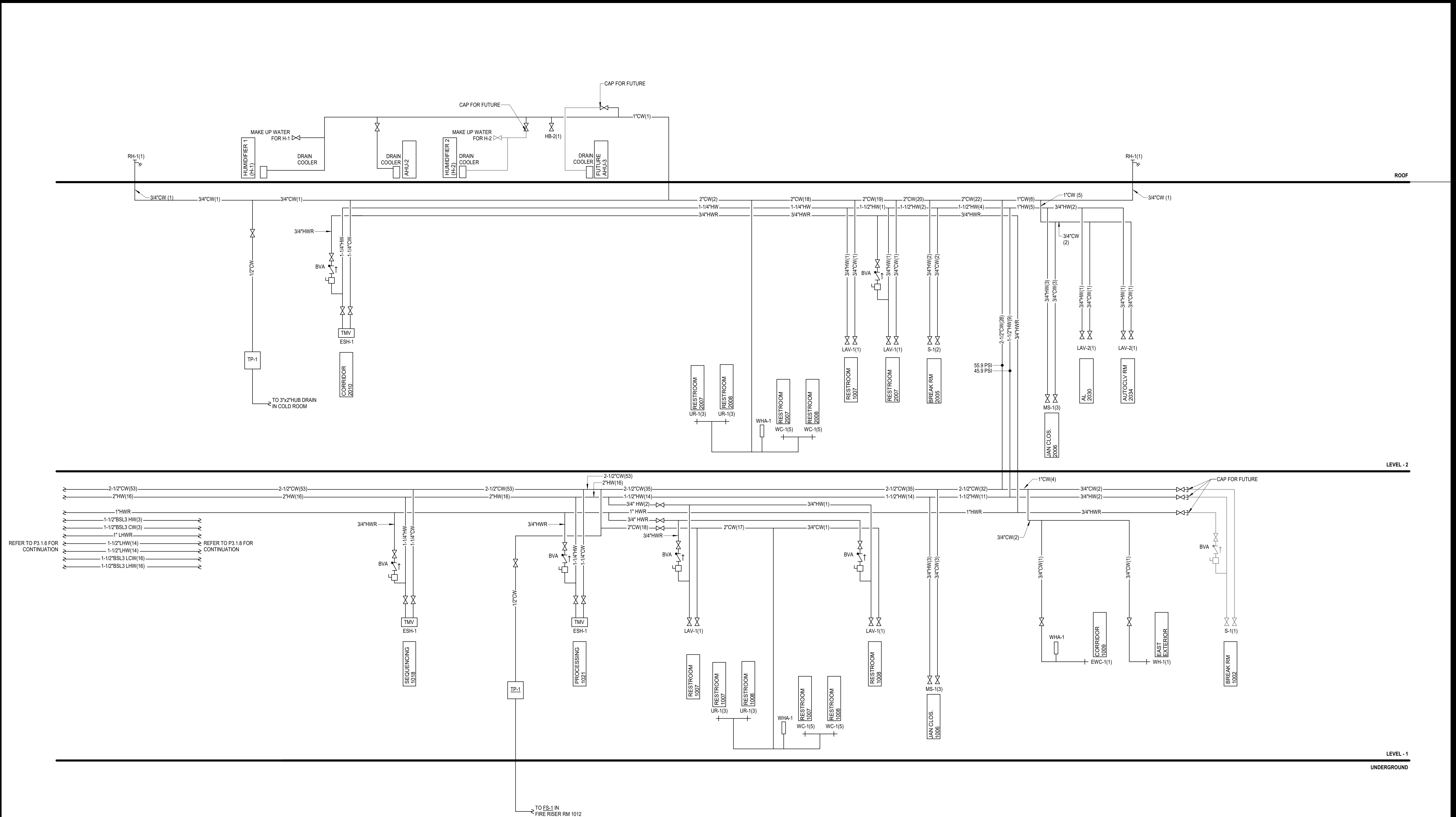
FOR CONTINUATION SEE CIVIL PLANS
3\"/>

GENERAL NOTES

1. REFER TO P3.1.1 SANITARY WASTE AND VENT RISER DIAGRAM FOR TRAP PRIMER CONNECTIONS.
2. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE, REFER TO MECHANICAL DRAWINGS AND SCHEDULES.

LEGEND

- CW PIPING
- FUTURE WASTE PIPING



REFER TO P3.1.6 FOR CONTINUATION
 2-1/2" CW (53)
 2" HW (16)
 1" HW
 1-1/2" BSL3 HW (3)
 1-1/2" BSL3 CW (3)
 1" LHW
 1-1/2" LHW (14)
 1-1/2" LHW (14)
 1-1/2" BSL3 LHW (16)
 1-1/2" BSL3 LHW (16)

REFER TO P3.1.8 FOR CONTINUATION

KEY PLAN

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PROJECT NO. 20230523 SCALE

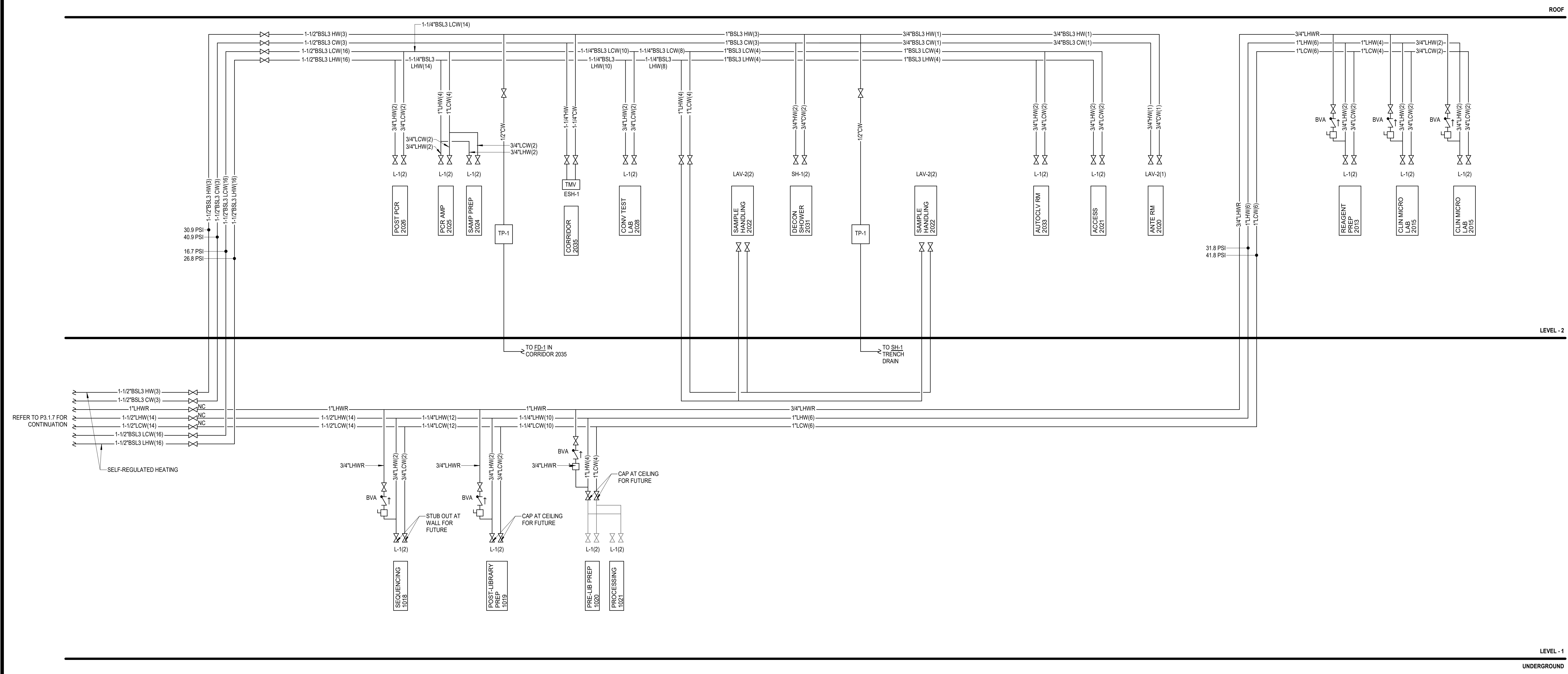
DRAWING NAME

DOMESTIC WATER RISER DIAGRAM

FLOOR/SECTION PHASE DRAWING NO.

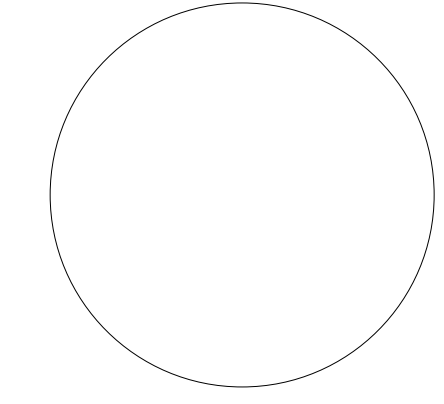
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CD P3.1.7



KEY PLAN

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D			10.11.2024

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PROJECT NO. 20230523 SCALE _____

DRAWING NAME _____

LAB WATER RISER DIAGRAM

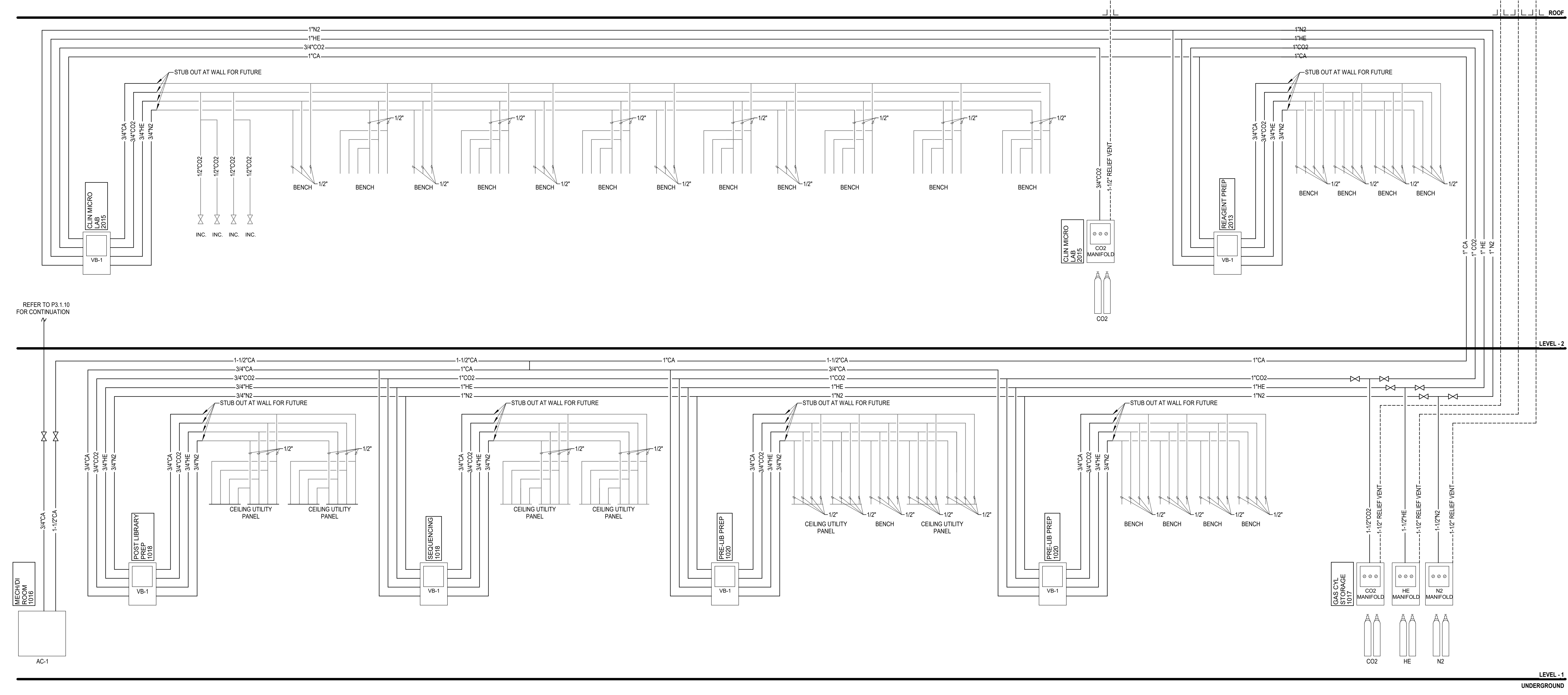
FLOOR/SECTION PHASE _____ DRAWING NO. _____

NOT FOR CONSTRUCTION

CD P3.1.8

LEGEND

-  LAB GAS PIPING
-  FUTURE LAB GAS PIPING



KEY PLAN

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D			10.11.2024

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PROJECT NO. 20230523 SCALE _____

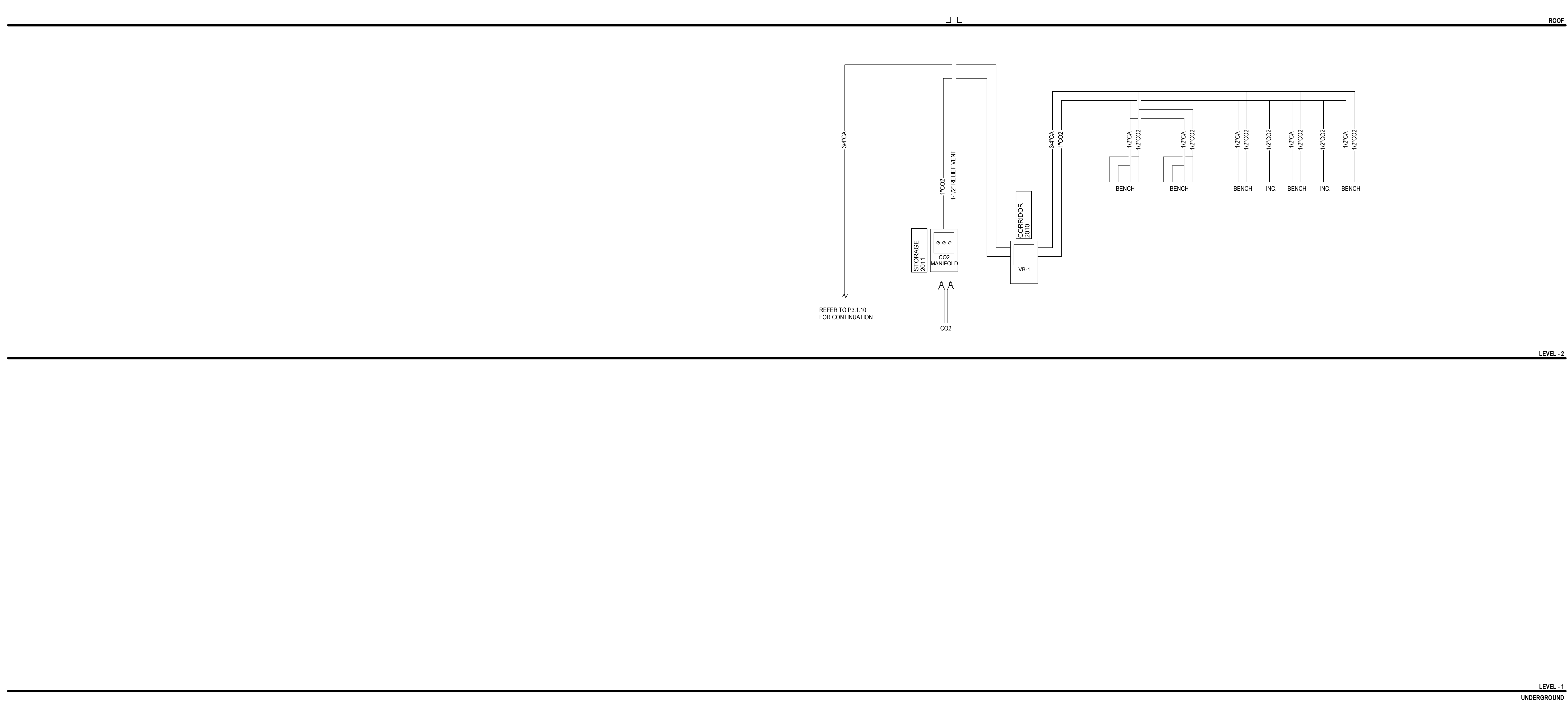
DRAWING NAME _____

LAB GAS RISER DIAGRAM

FLOOR/SECTION PHASE _____ DRAWING NO. _____

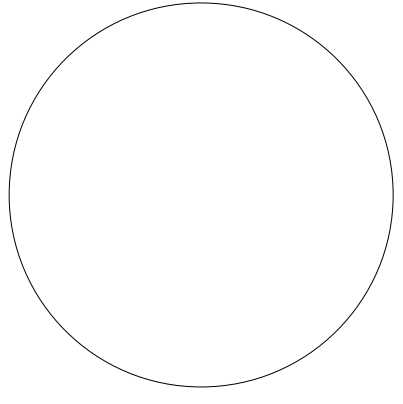
NOT FOR CONSTRUCTION

CD P3.1.9



KEY PLAN

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2			10.11.2024

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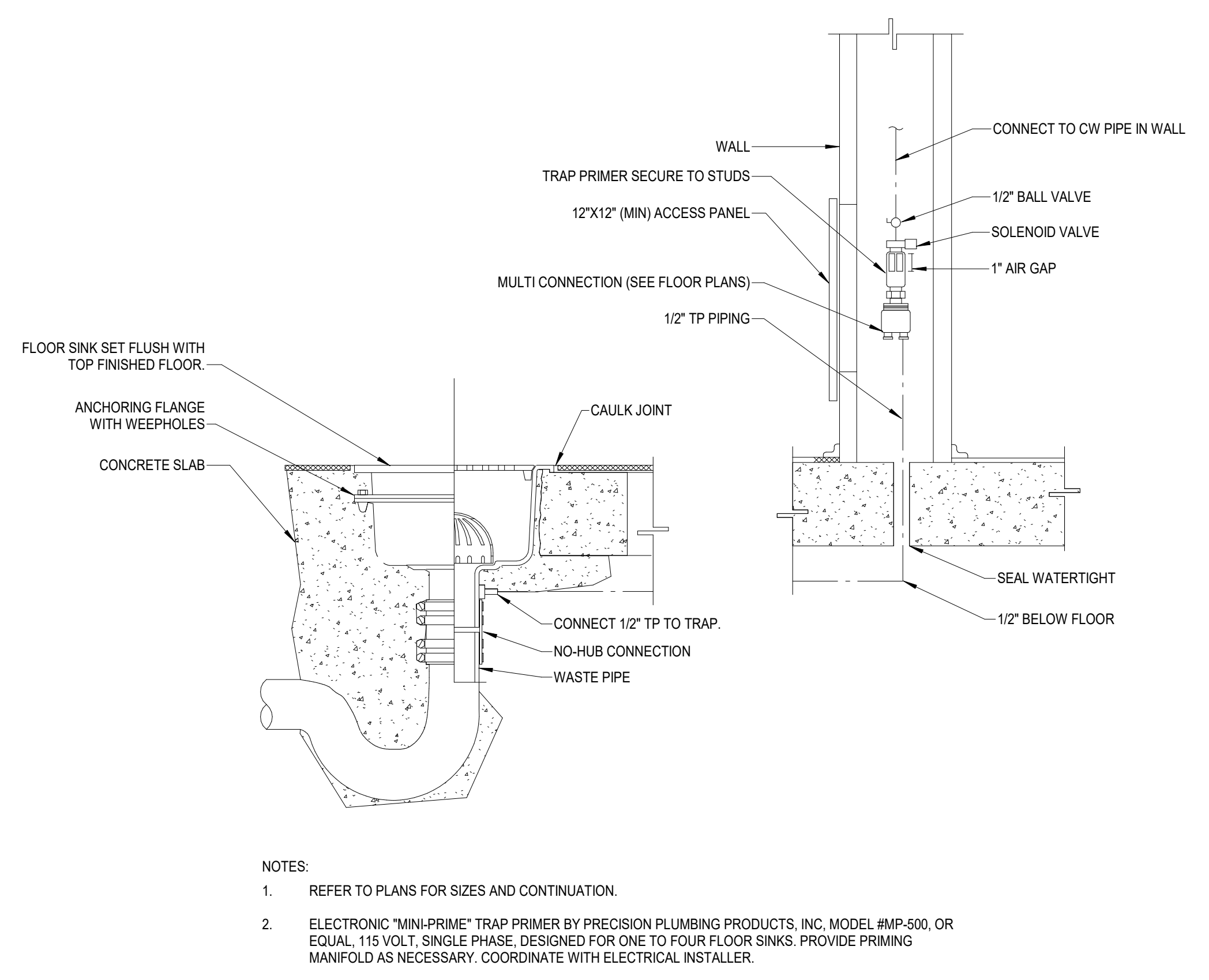
PROJECT NO. 20230523 SCALE _____

DRAWING NAME
BSL3 LAB GAS RISER DIAGRAM

FLOOR/SECTION PHASE DRAWING NO.

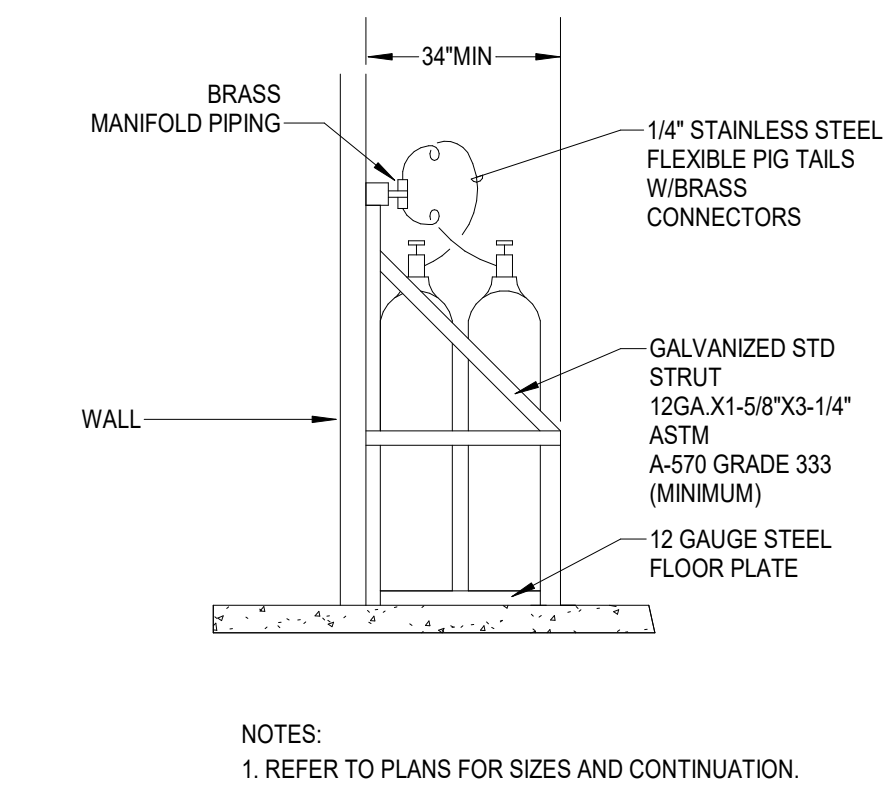
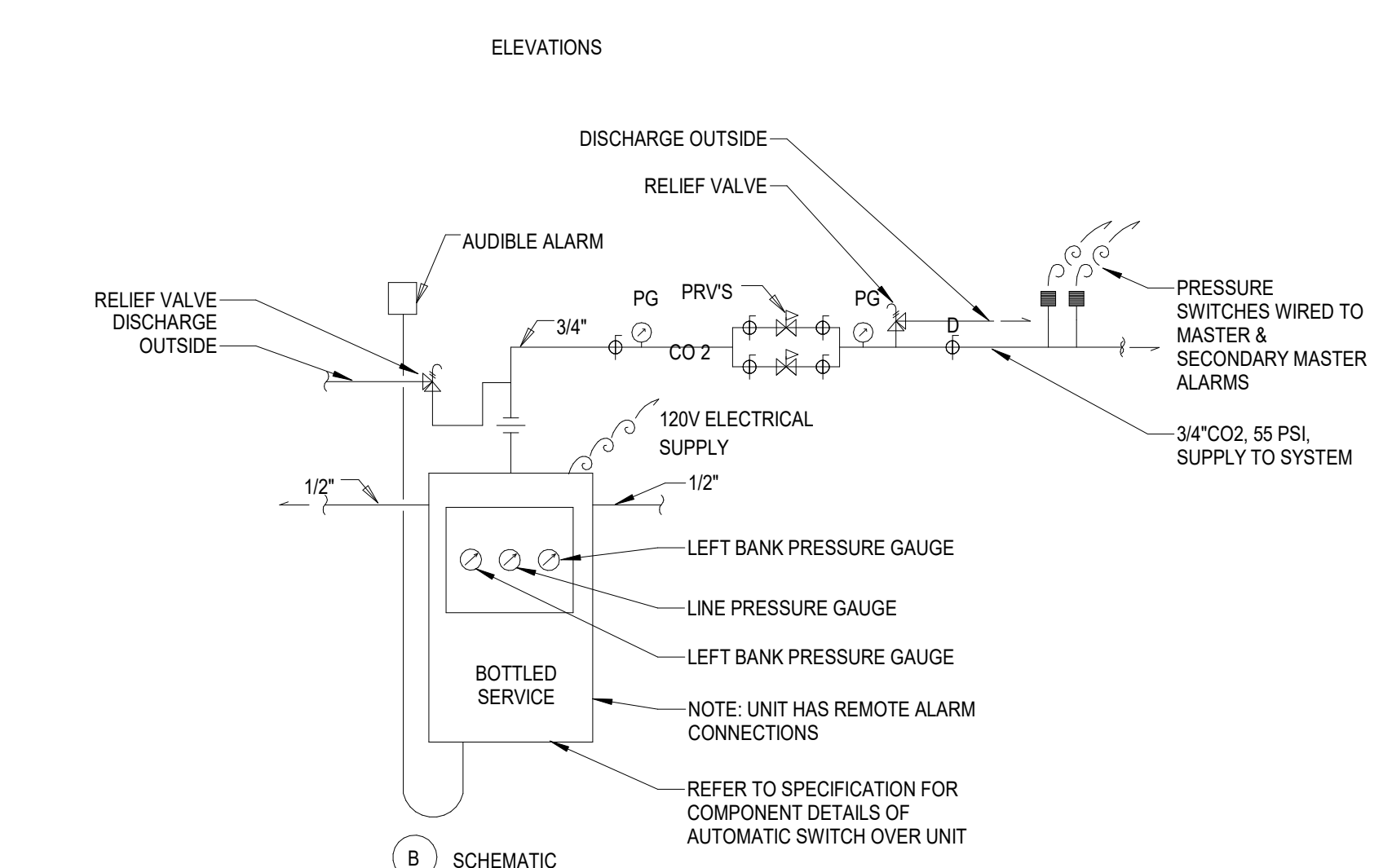
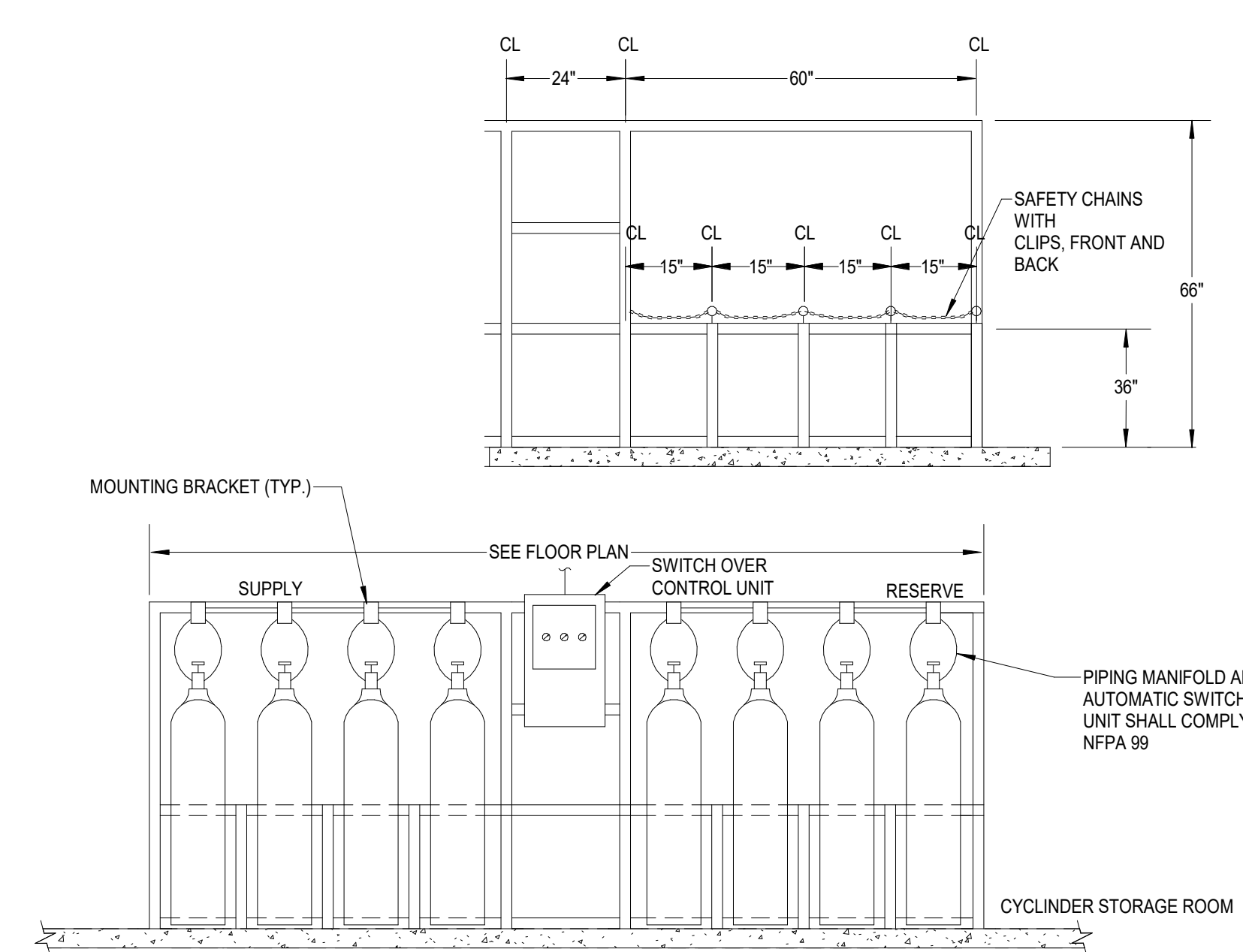
NOT FOR CONSTRUCTION

CD P3.1.10



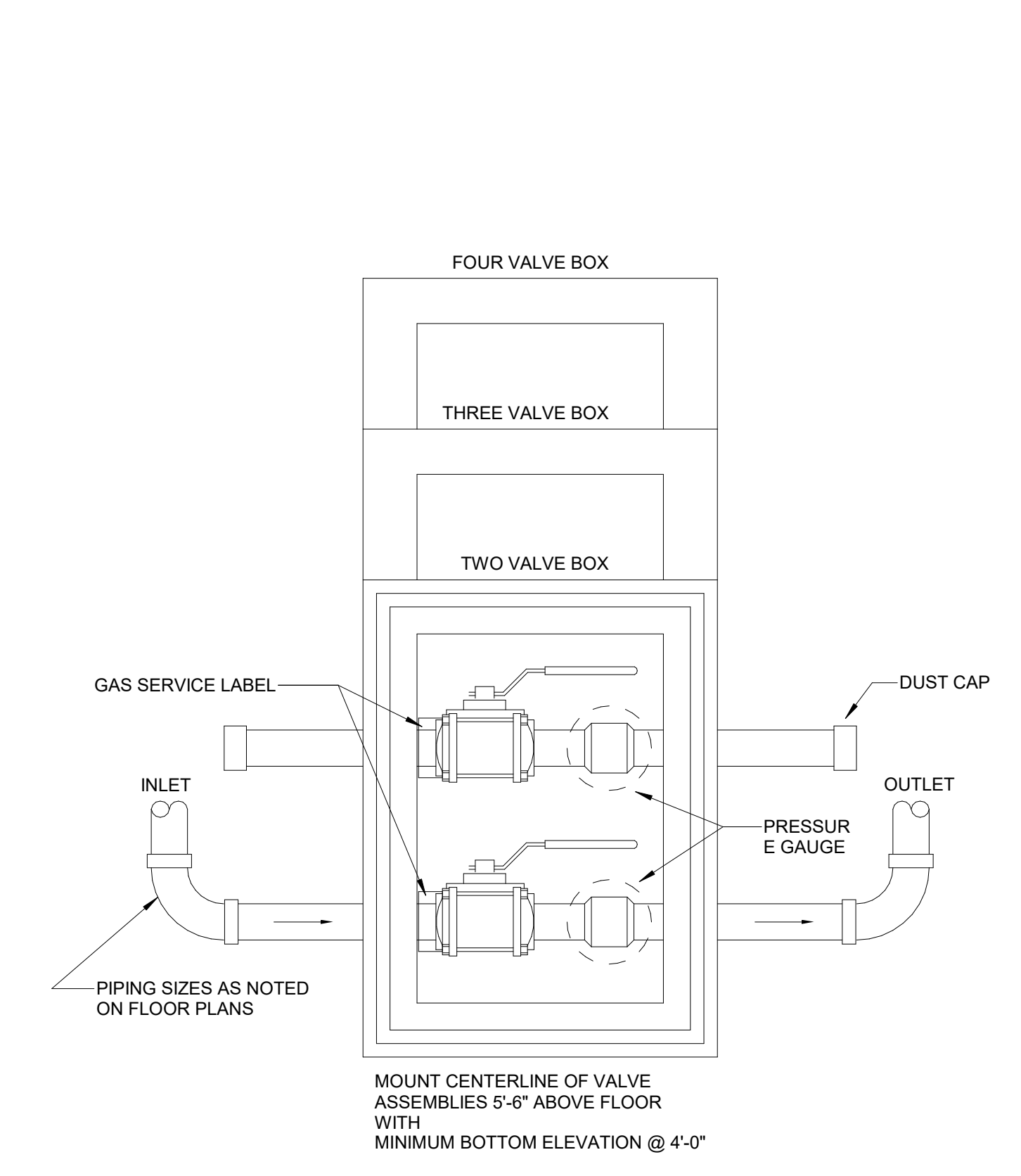
- NOTES:
- REFER TO PLANS FOR SIZES AND CONTINUATION.
 - ELECTRONIC "MINI-PRIME" TRAP PRIMER BY PRECISION PLUMBING PRODUCTS, INC. MODEL AMP-500, OR EQUAL, 115 VOLT, SINGLE PHASE, DESIGNED FOR ONE TO FOUR FLOOR SINKS. PROVIDE PRIMING MANIFOLD AS NECESSARY. COORDINATE WITH ELECTRICAL INSTALLER.

8 FLOOR SINK WITH ELECTRONIC TP DETAIL
SCALE: NTS



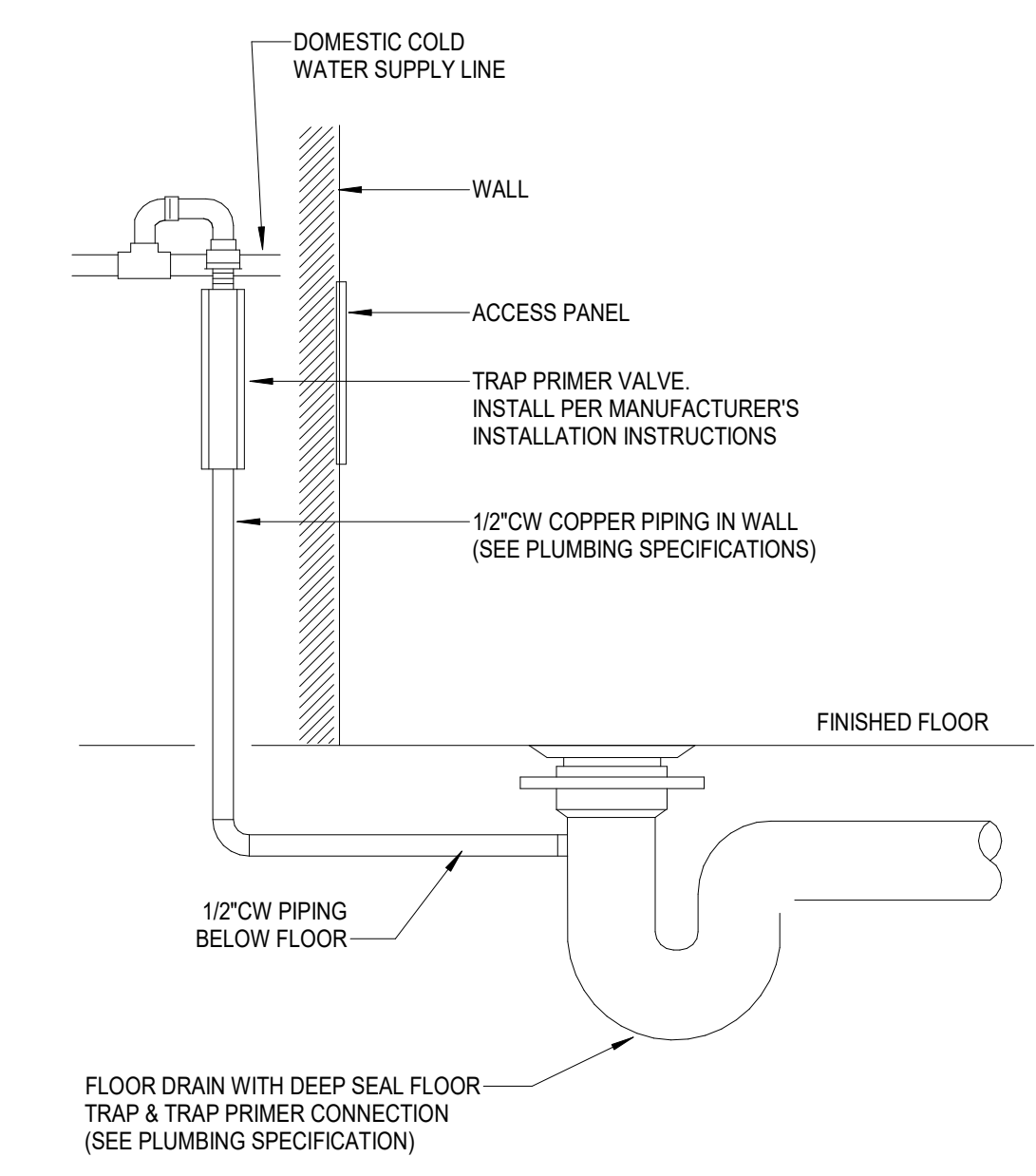
- NOTES:
- REFER TO PLANS FOR SIZES AND CONTINUATION.

9 GAS CYLINDER DETAIL
SCALE: NTS

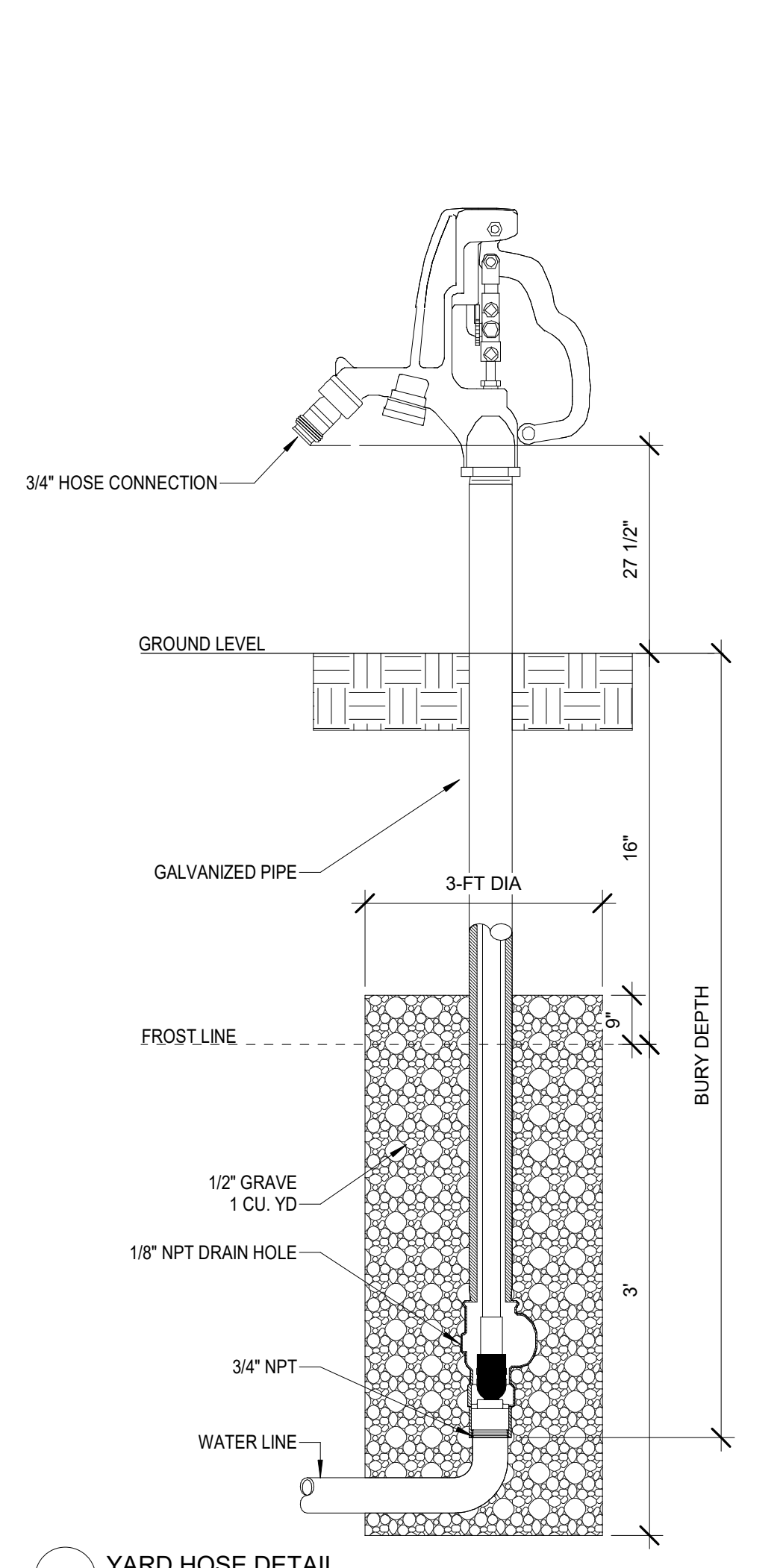


MOUNT CENTERLINE OF VALVE ASSEMBLIES 5'-6\"/>

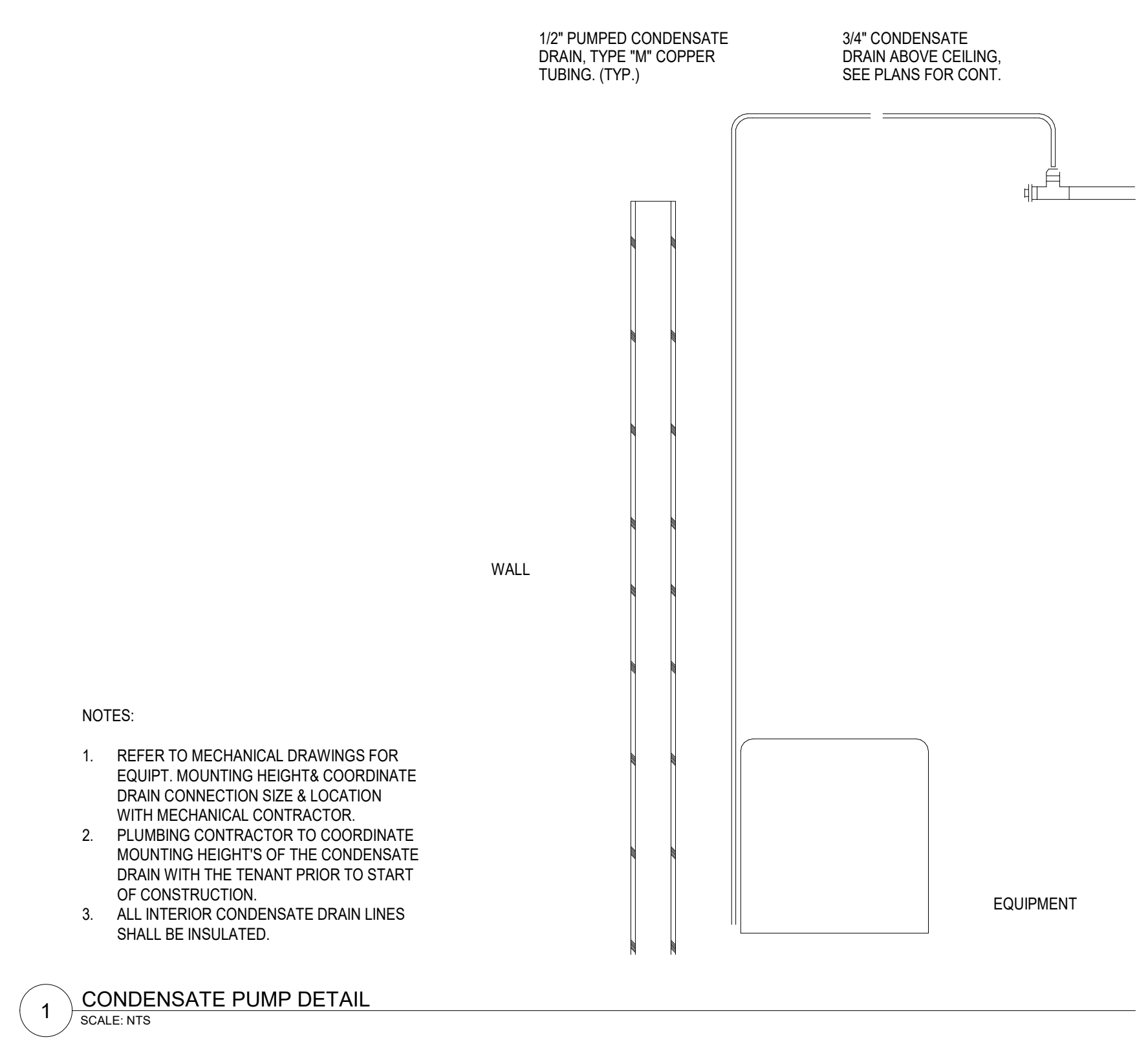
5 TYPICAL ZONE VALVE BOX DETAIL
SCALE: NTS



6 TRAP PRIMER DETAIL
SCALE: NTS

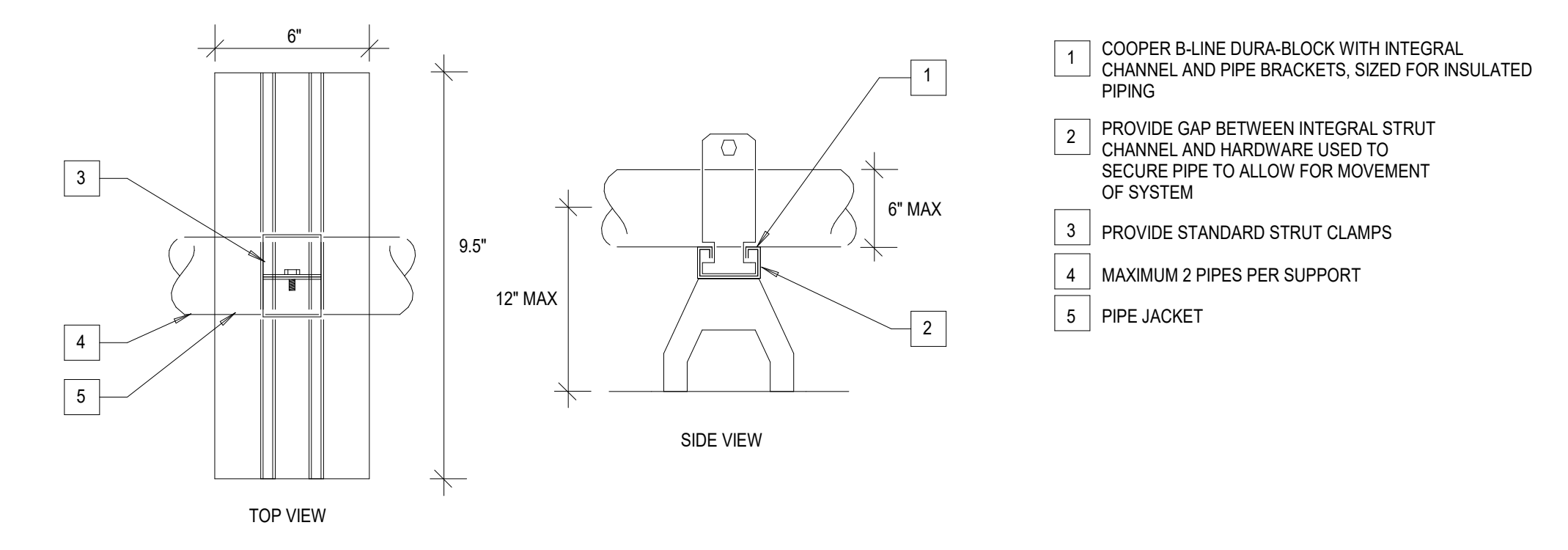


7 YARD HOSE DETAIL
SCALE: NTS



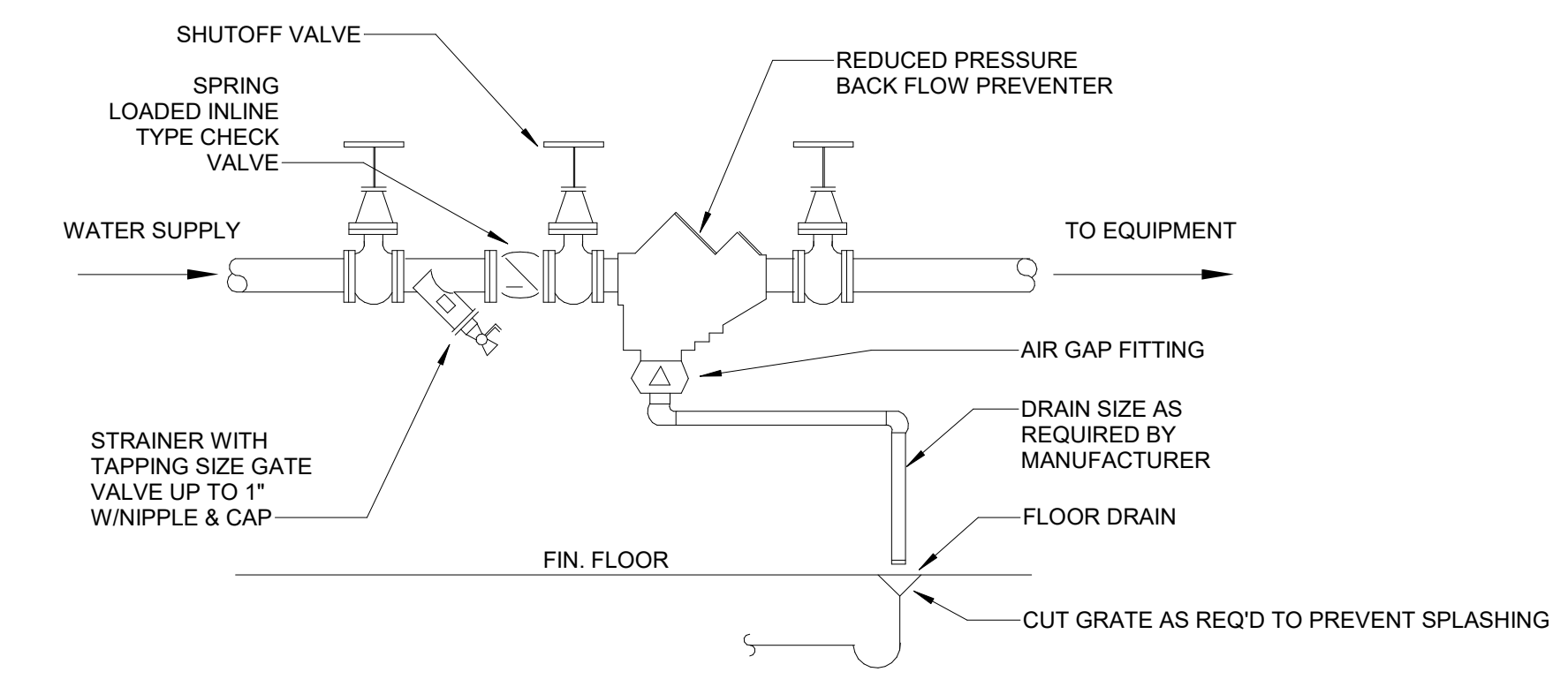
- NOTES:
- REFER TO MECHANICAL DRAWINGS FOR EQUIP. MOUNTING HEIGHTS & COORDINATE DRAIN CONNECTION SIZE & LOCATION WITH MECHANICAL CONTRACTOR.
 - PLUMBING CONTRACTOR TO COORDINATE MOUNTING HEIGHTS OF THE CONDENSATE DRAIN WITH THE TENANT PRIOR TO START OF CONSTRUCTION.
 - ALL INTERIOR CONDENSATE DRAIN LINES SHALL BE INSULATED.

1 CONDENSATE PUMP DETAIL
SCALE: NTS

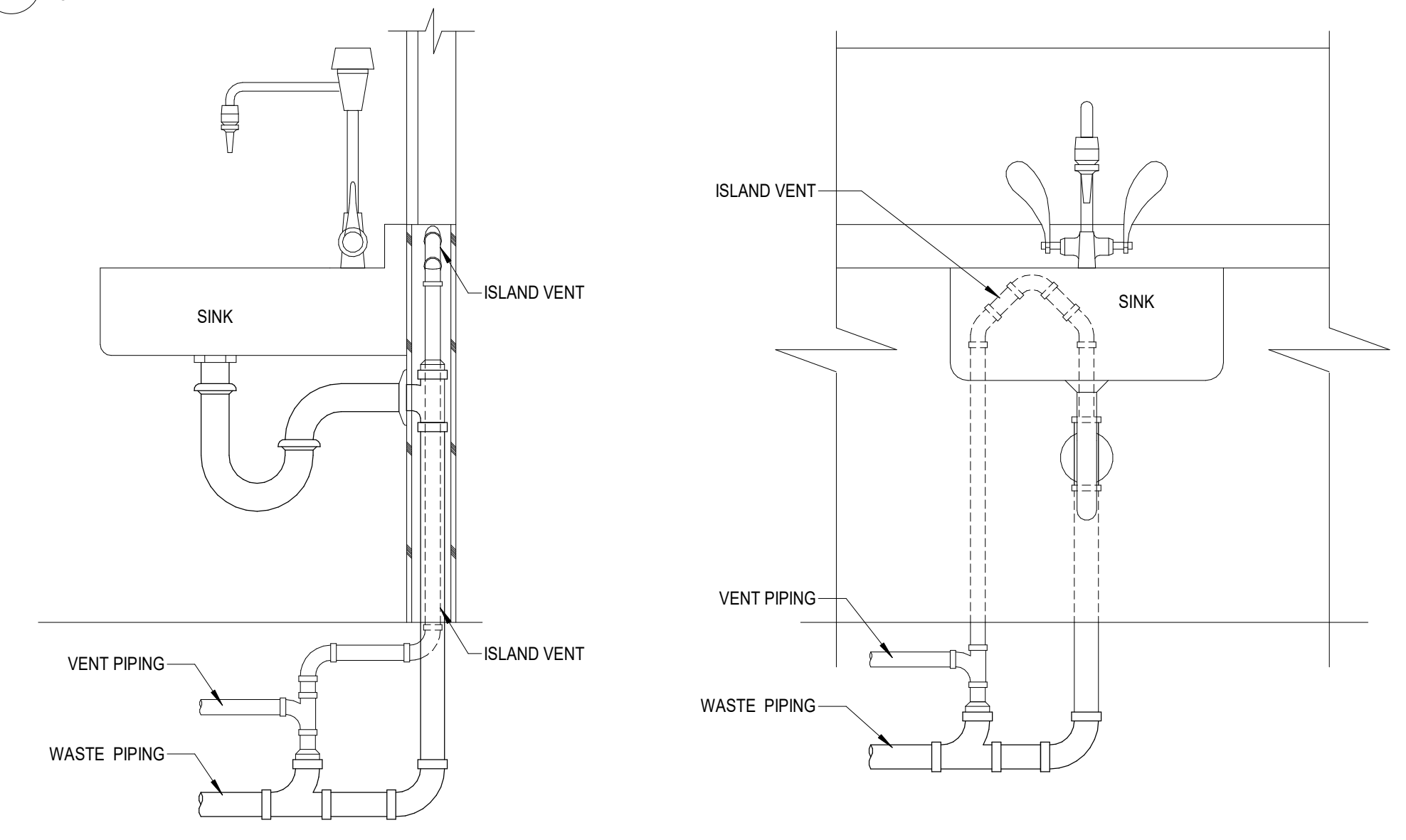


- NOTES:
- PROVIDE A MAXIMUM OF 6'-0\"/>

2 DURABLOCK PIPE SUPPORT
SCALE: NTS



3 BACKFLOW PREVENTER AT EQUIPMENT
SCALE: NTS



4 SINK ISLAND VENT DETAIL
SCALE: 1/2\"/>

KEY PLAN

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Steph Vargas
PROJECT ENGINEER
Tony Castro
PLUMBING MODEL LEAD
Tina Kawagishi

REVISIONS

NO.	BY	DESCRIPTION	DATE

Southern Nevada Health District
700 South M.L.K. Blvd
Las Vegas, NV 89106

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PROJECT NO. 20230523 SCALE
DRAWING NAME

PLUMBING DETAILS
FLOOR/SECTION PHASE DRAWING NO.

NOT FOR CONSTRUCTION

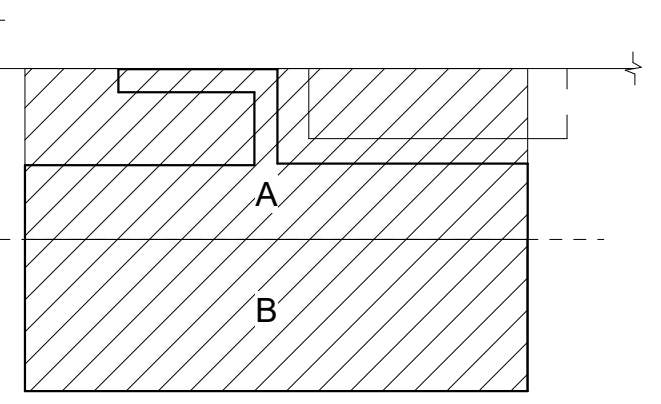
CD P4.2.1



GENERAL NOTES:

- UNLESS OTHERWISE NOTED, ALL ELECTRICAL EQUIPMENT AND WIRING SHOWN IN A DARK DASHED LINE IS DEMOLITION WORK AND ALL ELECTRICAL EQUIPMENT AND WIRING SHOWN IN A LIGHT SOLID LINE IS EXISTING TO REMAIN.
- DEMOLITION WORK SHOWN ON THIS PLAN SHALL NOT INTERFERE WITH THE OPERATION OF OTHER BUILDING SYSTEMS. IF A DISRUPTION IN SERVICE IS REQUIRED DURING DEMOLITION, CONTRACTOR SHALL NOTIFY OWNER AND DETERMINE APPROPRIATE SHUT-DOWN TIMING TO ENSURE ANY SHUT-DOWN DOES NOT AFFECT CRITICAL FACILITY OPERATIONS.
- ALL EXISTING CONDUITS AND CONDUCTORS, SUPPORT BOXES, ETC. SHALL BE REMOVED WHERE SERVING EXISTING TO BE REMOVED EQUIPMENT.
- ELECTRICAL EQUIPMENT THAT ARE SITUATED OUTSIDE THE AREA OF WORK LINE MAY BE INVOLVED IN THE ALTERATION WORK.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES, SERVICES, ETC. CONTRACTOR SHALL TAKE SPECIFIC CARE WHEN PERFORMING UNDERGROUND WORK AT AND AROUND EXISTING UNDERGROUND SERVICES.
- REPAIR STREETS, PAVEMENTS, LAWNS, CURBS AND OTHER FINISHED SURFACES DAMAGED BY EXCAVATION AND RESTORE SAME TO ORIGINAL CONDITION.

KEY PLAN



PRINCIPAL
DAVID KEITH
RESEARCH PLANNER
STEPH VARGAS
Electrical Engineer
KYLE KAVANAUGH, PE.
Electrical Model Lead
SEAN WIECZOREK

REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D			10.11.2024
C		ISSUED FOR OWNER'S REVIEW	09.26.2024
B		DESIGN DEVELOPMENT	05.24.2024
A		50% DD SET	05.10.2024

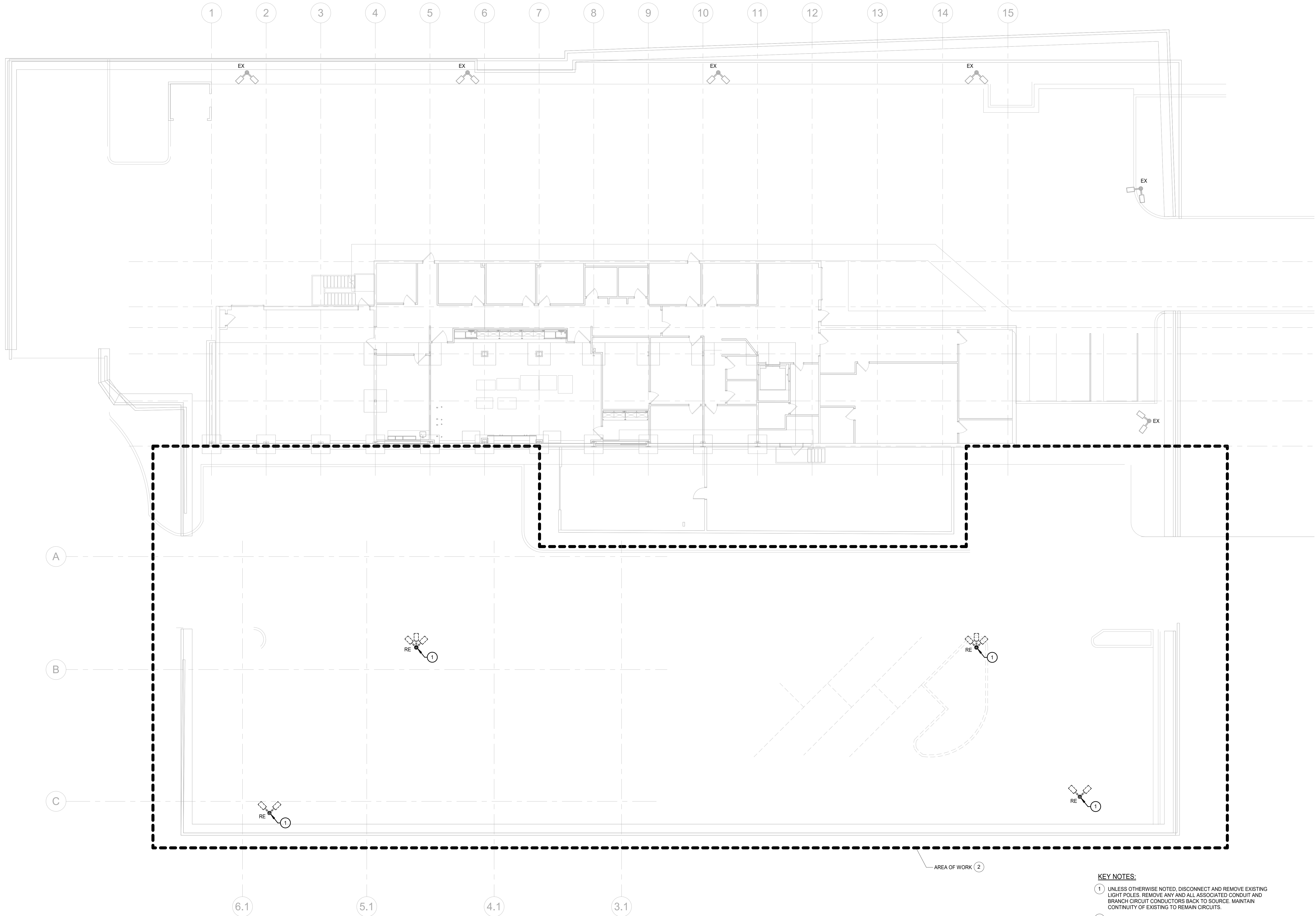
**SOUTHERN NEVADA
NEW BSL-3 LABORATORY
BUILDING**

700 South M.L.K. Blvd Las Vegas, NV 89106

DRAWN BY: SW DATE: 10.11.2024
PROJECT NO. 20230523 SCALE: As indicated

ELECTRICAL SITE PLAN - DEMOLITION

FLOOR/SECTION PHASE DRAWING NO.
CD EDS1.0



- KEY NOTES:**
- UNLESS OTHERWISE NOTED, DISCONNECT AND REMOVE EXISTING LIGHT POLES. REMOVE ANY AND ALL ASSOCIATED CONDUIT AND BRANCH CIRCUIT CONDUCTORS BACK TO SOURCE. MAINTAIN CONTINUITY OF EXISTING TO REMAIN CIRCUITS.
 - MAINTAIN ALL UTILITIES ON SITE THAT SERVE THE EXISTING BUILDING AND EXISTING GATES.



KEY NOTES:

1. PROPOSED LOCATION OF NEW GENERATOR. NEW GENERATOR TO BE A CAT C18 WITH SOUND ATTENUATED LEVEL ONE STEEL ENCLOSURE AND 660 GALLON SUB-BASE TANK. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. EXTERIOR LIGHT FIXTURE. PROVIDE SEPARATE SWITCH LEG FOR THIS LIGHTING CIRCUIT. LIGHT FIXTURE SHALL BE CONNECTED TO LIGHTING CONTROL PANEL. COORDINATE WITH OWNER FOR PREFERRED TIME CLOCK SCHEDULING.
3. LOCATIONS FOR CONNECTIONS OF GROUND LOOP TO BUILDING STEEL ARE DIAGNOSTIC. CONTRACTOR SHALL PROVIDE CONNECTION TO BUILDING STEEL AT A MAXIMUM SPACING OF 60' APART ALONG BUILDING PERIMETER.
4. REFER TO DETAIL 1 ON SHEET E6.3 FOR POLE BASE.
5. WALL MOUNTED STAIRWELL FIXTURE. REFER TO DETAIL 1 ON SHEET E6.2 FOR ELEVATION VIEW OF STAIRS AND FIXTURE QUANTITIES.
6. INSTALL TRYSTAR GENERATOR DOCKING STATION, SBDS-4, TAP BOX HAS (1) 20A GFCI DUPLEX RECEPTACLE FED FROM 1LA1-67 AND (1) 30A L5-30 RECEPTACLE FED FROM 1LA1-69.

GENERAL NOTES CONTINUED:

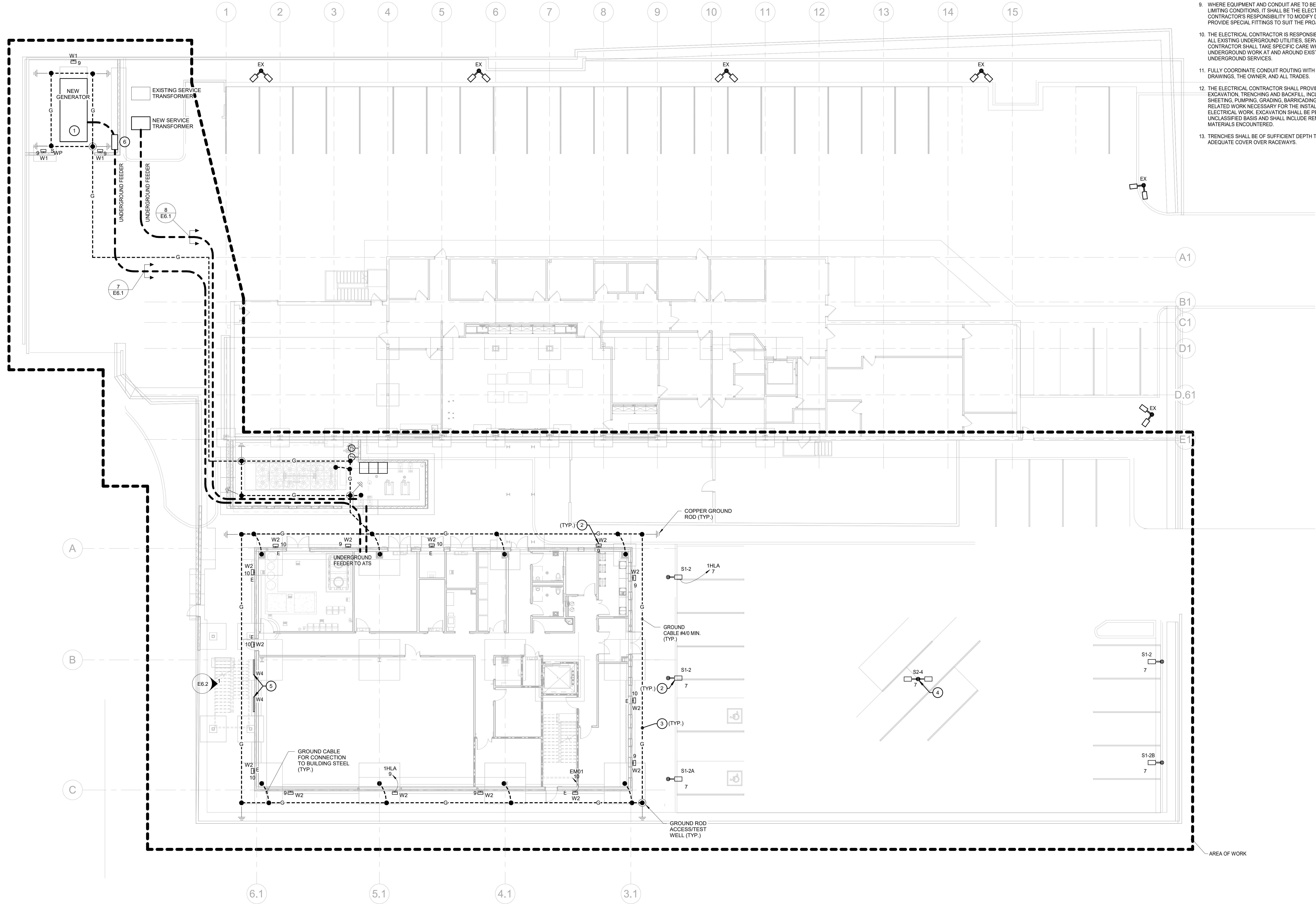
19. FULLY COORDINATE INSTALLATION, WIRING AND CONNECTION OF SERVICE AND DISTRIBUTION SYSTEMS WITH THE OWNER, ELECTRICAL UTILITY COMPANY AND ALL CONTRACTORS.
20. COORDINATE WITH ELECTRICAL UTILITY COMPANY; INFORM THEM OF THE PROPOSED WORK; OBTAIN THEIR APPROVAL BEFORE BEGINNING WORK; COMPLY WITH THEIR REQUIREMENTS FOR DETAILS OF INSTALLATION AND MATERIALS USED.
21. DETERMINE AND PAY ANY AND ALL CHARGES REQUIRED BY ELECTRICAL UTILITY COMPANY. HAVE ELECTRICAL SERVICE AVAILABLE WHEN REQUIRED BY CONSTRUCTION SCHEDULE.
22. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL COMPONENTS INCLUDING SENSORS, MODULES, RELAYS, POWER PACKS, ETC. TO COORDINATE FINAL SELECTED LIGHTING CONTROL SYSTEM AND PROVIDE A FULLY FUNCTIONING LIGHTING CONTROL SYSTEM.

GENERAL NOTES CONTINUED:

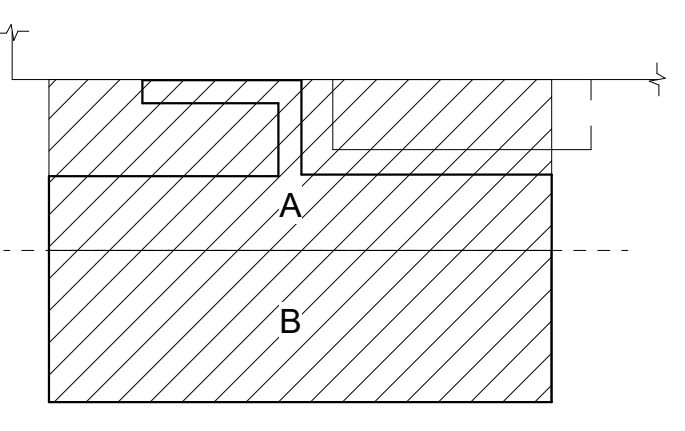
14. BOTTOMS OF TRENCHES SHALL BE INSTRUMENT GRADED IN DIRECTION OF FLOW. EARTH SHALL BE SCOOPED OUT SO RACEWAYS WILL HAVE SOLID BEARINGS ON UNDISTURBED EARTH.
15. WHERE TRENCHES RUN UNDER WALL FOOTINGS OR COME WITHIN A 2 TO 1 SLOPE FROM THE BOTTOM OF WALL OR COLUMN FOOTINGS, BACKFILL WITH LEAN CONCRETE TO A POINT AT OR ABOVE THE BOTTOM OF WALL OR COLUMN FOOTING. WHERE TRENCHES MUST BE EXCAVATED IN ROCK A 6" LAYER OF CRUSHED STONE OR GRAVEL SHALL BE PLACED IN TRENCH TO SUPPORT RACEWAYS. TRENCHES SHALL BE OF SUFFICIENT DEPTH TO INSTALL CUSHIONING LAYER.
16. BACKFILL SHALL BE MADE WITH CLEAN EARTH FREE OF ROCKS, FROZEN EARTH, DEBRIS OR OTHER FOREIGN MATERIAL. DEPOSIT BACKFILL IN UNIFORM LAYERS NOT OVER 6" THICK. TAMP EACH LAYER BEFORE APPLYING NEXT LAYER. CINDERS IN BACKFILL ARE PROHIBITED.
17. REPAIR STREETS, PAVEMENTS, LAWNS, CURBS AND OTHER FINISHED SURFACES DAMAGED BY EXCAVATION AND RESTORE SAME TO ORIGINAL CONDITION.
18. LOCATIONS OF SERVICES AND THEIR TERMINATIONS ARE DIAGNOSTIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING TERMINATION POINTS AND PROVIDING ALL SERVICES FROM UTILITY COMPANY SOURCES AS REQUIRED.

GENERAL NOTES:

1. REFER TO STRUCTURAL DRAWINGS FOR COORDINATION OF SLAB OPENINGS.
2. COORDINATE ALL ELECTRICAL SITE WORK WITH CIVIL DRAWINGS.
3. COORDINATE LOCATION OF POLE AND GROUND MOUNTED FIXTURES WITH ARCHITECTURAL AND CIVIL DRAWINGS. COORDINATE CONCRETE BASES AND HEIGHTS WITH STRUCTURAL DRAWINGS.
4. ALL CONDUCTOR SIZES ARE TO BE #10 MINIMUM.
5. ALL WORK ASSOCIATED WITH UTILITY SHALL BE PER THE FINALIZED UTILITY DRAWINGS AND SPECIFICATIONS.
6. ALL EXISTING WORK DAMAGED BY ELECTRICAL CONSTRUCTION OPERATIONS SHALL BE REPAIRED AND RESTORED TO ORIGINAL CONDITIONS.
7. PULL BOXES FOR LIGHTING FIXTURES ARE NOT INDICATED ON THE PLANS. THE CONTRACTOR SHALL INCLUDE A PRECAST PULL BOX ADJACENT TO EACH POLE LIGHT FIXTURE.
8. ALL LIGHTING POLES SHALL BE MADE OF CORROSION-RESISTANT ALLOY, WITH SUFFICIENT TENSILE STRENGTH TO WITHSTAND WIND SPEEDS AS DICTATED BY NATIONAL AND LOCAL CODES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. WHERE EQUIPMENT AND CONDUIT ARE TO BE INSTALLED WITHIN LIMITING CONDITIONS, IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO MODIFY DETAILS TO PROVIDE SPECIAL FITTINGS TO SUIT THE PROJECT.
10. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES, SERVICES, ETC. CONTRACTOR SHALL TAKE SPECIFIC CARE WHEN PERFORMING UNDERGROUND WORK AT AND AROUND EXISTING UNDERGROUND SERVICES.
11. FULLY COORDINATE CONDUIT ROUTING WITH THE CIVIL DRAWINGS, THE OWNER, AND ALL TRADES.
12. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL EXCAVATION, TRENCHING AND BACKFILL, INCLUDING SHORING, SHEETING, PILING, GRADING, BARRICADING AND ALL OTHER RELATED WORK NECESSARY FOR THE INSTALLATION OF ELECTRICAL WORK. EXCAVATION SHALL BE PERFORMED ON AN UNCLASSIFIED BASIS AND SHALL INCLUDE REMOVAL OF MATERIALS ENCOUNTERED.
13. TRENCHES SHALL BE OF SUFFICIENT DEPTH TO ALLOW ADEQUATE COVER OVER RACEWAYS.



KEY PLAN



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REVISIONS

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E		ISSUED FOR GC BIDDING	11.08.2024
D		ISSUED FOR OWNER'S REVIEW	10.11.2024
C		DESIGN DEVELOPMENT	09.26.2024
B		50% DD SET	05.24.2024
A			05.10.2024

**SOUTHERN NEVADA
NEW BSL-3 LABORATORY
BUILDING**

700 South M.L.K. Blvd Las Vegas, NV 89106

DRAWN BY: Author DATE: 10.11.2024

PROJECT NO. 20230523 SCALE: As indicated

DRAWING NAME: ELECTRICAL SITE PLAN

FLOOR/SECTION PHASE: DRAWING NO.

CD ES1.1

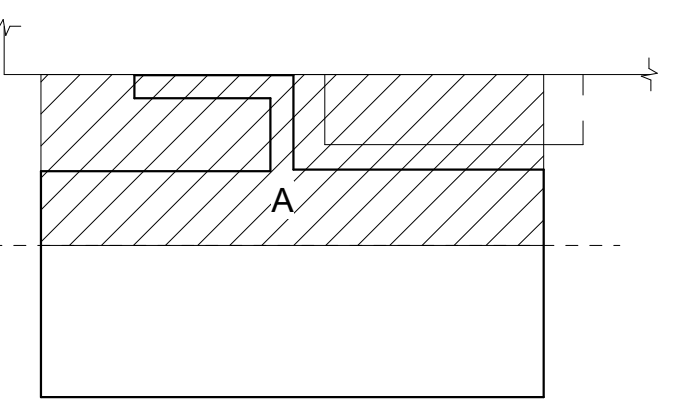
1 ELECTRICAL SITE PLAN
SCALE: 3/32" = 1'-0"



GENERAL NOTES:

- ALL RECEPTACLES WITHIN 6FT FROM A SOURCE OF WATER SHALL BE GFCI-TYPE.
- ALL BRANCH CIRCUITS SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR. FOR ANY MULTI-WIRE BRANCH CIRCUITS (SUCH AS FOR ELECTRIFIED FURNITURE), TIE-HANDLES SHALL BE PROVIDED IN ORDER TO COMPLY WITH NEC SECTION 210.4(B).
- REFER TO MECHANICAL DRAWINGS FOR LOCATIONS AND QUANTITIES OF SMOKE FIRE DAMPERS AND ELECTRICAL SPECIFICATIONS FOR CIRCUITING REQUIREMENTS.
- REFER TO MECHANICAL DRAWINGS FOR LOCATIONS AND QUANTITIES OF AIR VOLUME CONTROL BOXES AND ELECTRICAL SPECIFICATIONS FOR CIRCUITING REQUIREMENTS.
- REFER TO PLUMBING DRAWINGS FOR LOCATIONS AND QUANTITIES OF SINK FAUCETS AND FLUSH VALVES. PROVIDE 120V/1P POWER CONNECTING NO MORE THAN 12 PER CIRCUIT.
- PROVIDE 120V/1P POWER CONNECTION TO VAV/EAV BOX TRANSFORMERS. CONNECT NO MORE THAN 10 VAV OR EAV BOXES PER 20A/1P CIRCUIT. REFER TO PANEL SCHEDULES FOR DETAILS. PROVIDE DISCONNECTING MEANS PER CODE.
- PROVIDE 120V/1P POWER CONNECTION TO SMOKE FIRE DAMPERS. CONNECT NO MORE THAN 10 SMOKE FIRE DAMPERS PER 20A/1P CIRCUIT. REFER TO PANEL SCHEDULES FOR DETAILS. PROVIDE DISCONNECTING MEANS PER CODE.

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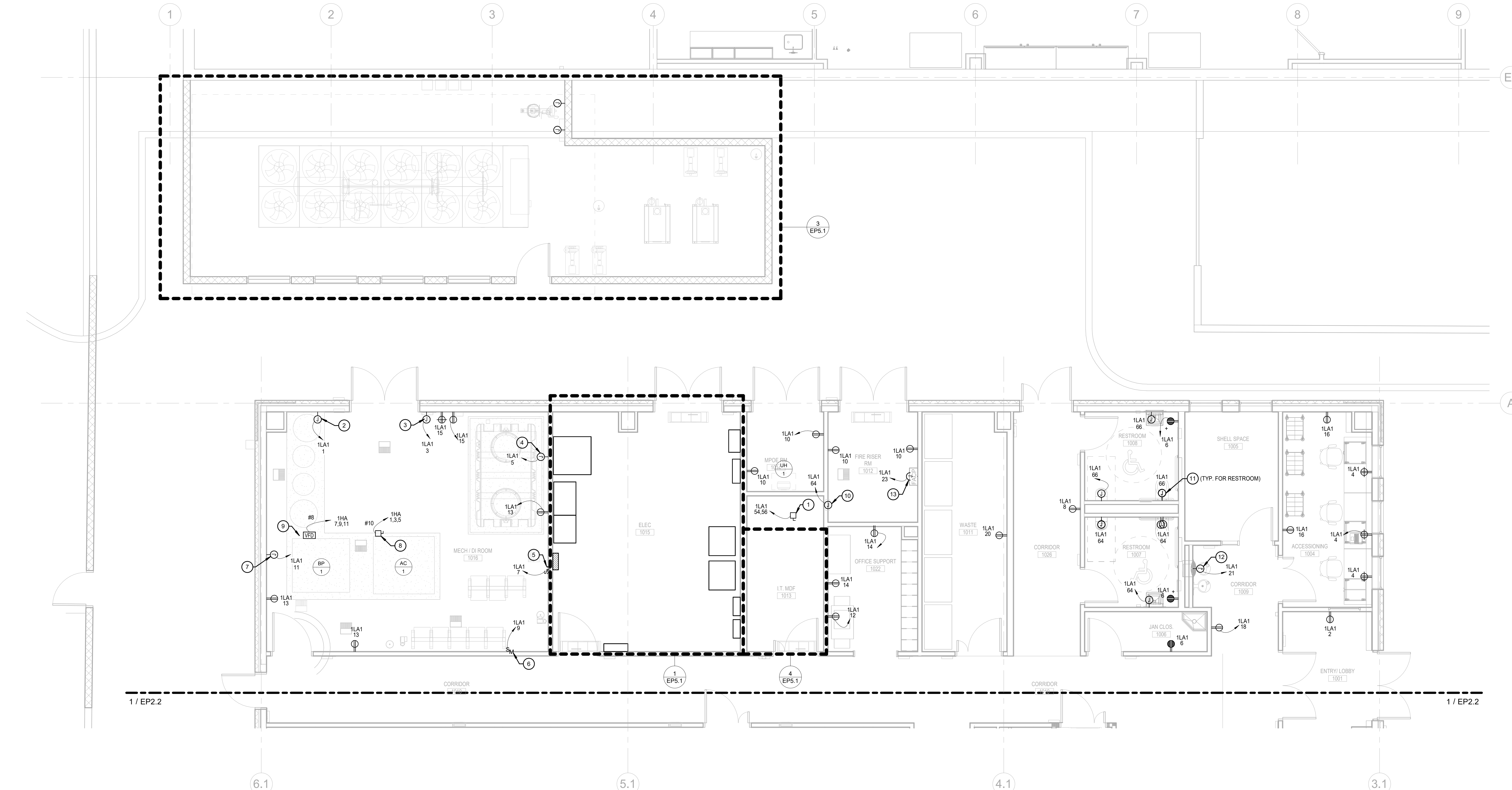
DRAWN BY SW DATE 10.11.2024

PROJECT NO. 20230523 SCALE As indicated
DRAWING NAME

POWER PLAN - LEVEL 1 - SECTOR A - PHASE 1

FLOOR/SECTION PHASE DRAWING NO.

CD EP2.1



1 POWER PLAN - LEVEL 1 - PHASE 1
SCALE: 1/4" = 1'-0"

KEY NOTES:

- PROVIDE POWER CONNECTION AND DISCONNECT FOR UNIT HEATER. VERIFY LOCATION, FINAL EQUIPMENT SELECTION, AND ELECTRICAL REQUIREMENTS WITH VENDOR PRIOR TO ROUGH-IN.
- PROVIDE 120V POWER FOR CONTROLS TO WATER SOFTENER.
- PROVIDE 120V POWER FOR CONTROLS TO PURIFIED WATER SYSTEM.
- PROVIDE 120V POWER FOR CONTROLS TO DECONTAMINATION TANK.
- PROVIDE 120V POWER FOR CONTROLS TO INDUSTRIAL HOT WATER.
- PROVIDE 120V POWER FOR CONTROLS TO DOMESTIC HOT WATER.
- PROVIDE 120V POWER FOR CONTROLS TO BOOSTER PUMP.
- PROVIDE POWER CONNECTION AND DISCONNECT FOR AIR COMPRESSOR, AC-1. VERIFY LOCATION, FINAL EQUIPMENT SELECTION, AND ELECTRICAL REQUIREMENTS WITH VENDOR PRIOR TO ROUGH-IN.
- VFD FOR BOOSTER PUMP, BP-1. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION. PROVIDE CONNECTION FOR BP-1. BP-1 SHALL CONTAIN FUSIBLE DISCONNECTING MEANS, SIZE FUSES PER MANUFACTURER RECOMMENDATIONS.
- PROVIDE 120V POWER FOR TRAP PRIMERS.
- PROVIDE 120V POWER FOR FAUCET AND VALVE SENSORS.
- PROVIDE 120V POWER FOR ELECTRIC WATER COOLER.
- PROVIDE 120V POWER FOR FIRE ALARM CONTROL PANEL. REFER TO FIRE PROTECTION DRAWINGS FOR LOCATION AND ADDITIONAL INFORMATION PRIOR TO ROUGH-IN.

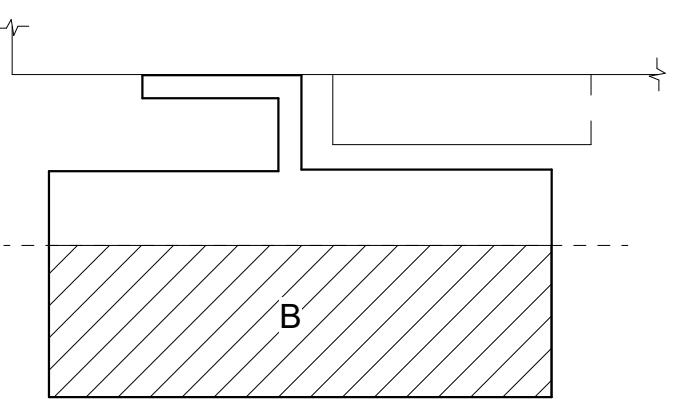
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GENERAL NOTES:

1. ALL RECEPTACLES WITHIN 6FT FROM A SOURCE OF WATER SHALL BE GFCI-TYPE.
2. ALL BRANCH CIRCUITS SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR. FOR ANY MULTI-WIRE BRANCH CIRCUITS (SUCH AS FOR ELECTRIFIED FURNITURE), TIE-HANDLES SHALL BE PROVIDED IN ORDER TO COMPLY WITH NEC SECTION 210.4(B).
3. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS AND QUANTITIES OF SMOKE FIRE DAMPERS AND ELECTRICAL SPECIFICATIONS FOR CIRCUITING REQUIREMENTS.
4. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS AND QUANTITIES OF AIR VOLUME CONTROL BOXES AND ELECTRICAL SPECIFICATIONS FOR CIRCUITING REQUIREMENTS.
5. REFER TO PLUMBING DRAWINGS FOR LOCATIONS AND QUANTITIES OF SINK FAUCETS AND FLUSH VALVES. PROVIDE 120V/1P POWER CONNECTING NO MORE THAN 12 PER CIRCUIT.
6. PROVIDE 120V/1P POWER CONNECTION TO VAVEAV BOX TRANSFORMERS. CONNECT NO MORE THAN 10 VAV OR EAV BOXES PER 20A/1P CIRCUIT. REFER TO PANEL SCHEDULES FOR DETAILS. PROVIDE DISCONNECTING MEANS PER CODE.
7. PROVIDE 120V/1P POWER CONNECTION TO SMOKE FIRE DAMPERS. CONNECT NO MORE THAN 10 SMOKE FIRE DAMPERS PER 20A/1P CIRCUIT. REFER TO PANEL SCHEDULES FOR DETAILS. PROVIDE DISCONNECTING MEANS PER CODE.

KEY PLAN



1 POWER PLAN - LEVEL 1 - PHASE 1 - SECTOR B
SCALE: 1/4" = 1'-0"

KEY NOTES:

- 1 POWER CONNECTION FOR ELEVATOR PIT LIGHT. PROVIDE LITHONIA MODEL# OLVTVM 4000K, MVOLT, GREY FIXTURE.
- 2 VERIFY ALL REQUIREMENTS WITH ELEVATOR MANUFACTURER PRIOR TO ROUGH-IN. 3P MAIN FUSE DISCONNECT SHALL BE CURRENT LIMITING CLASS RK1 OR EQUIVALENT.
- 3 REFER TO SINGLE LINE DIAGRAM FOR FEEDER INFORMATION.

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E		ISSUED FOR GC BIDDING	11.08.2024
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700 South M.L.K. Blvd Las Vegas, NV 89106

DRAWN BY SW DATE 10.11.2024

PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME

POWER PLAN - LEVEL 1 - SECTOR B - PHASE 1

FLOOR/SECTION PHASE DRAWING NO.

CD

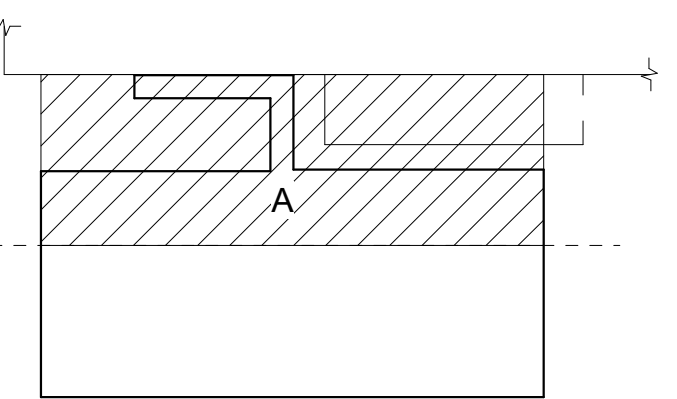
EP2.2



GENERAL NOTES:

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- REFER TO MECHANICAL DRAWINGS FOR LOCATIONS AND QUANTITIES OF SMOKE FIRE DAMPERS AND ELECTRICAL SPECIFICATIONS FOR CIRCUITING REQUIREMENTS.
- REFER TO MECHANICAL DRAWINGS FOR LOCATIONS AND QUANTITIES OF AIR VOLUME CONTROL BOXES AND ELECTRICAL SPECIFICATIONS FOR CIRCUITING REQUIREMENTS.
- REFER TO PLUMBING DRAWINGS FOR LOCATIONS AND QUANTITIES OF SINK FAUCETS AND FLUSH VALVES. PROVIDE 120V/1P POWER CONNECTING NO MORE THAN 12 PER CIRCUIT.
- PROVIDE 120V/1P POWER CONNECTION TO VAV/EA/V BOX TRANSFORMERS. CONNECT NO MORE THAN 10 VAV OR EA/V BOXES PER 20A/1P CIRCUIT. REFER TO PANEL SCHEDULES FOR DETAILS. PROVIDE DISCONNECTING MEANS PER CODE.
- PROVIDE 120V/1P POWER CONNECTION TO SMOKE FIRE DAMPERS. CONNECT NO MORE THAN 10 SMOKE FIRE DAMPERS PER 20A/1P CIRCUIT. REFER TO PANEL SCHEDULES FOR DETAILS. PROVIDE DISCONNECTING MEANS PER CODE.

KEY PLAN



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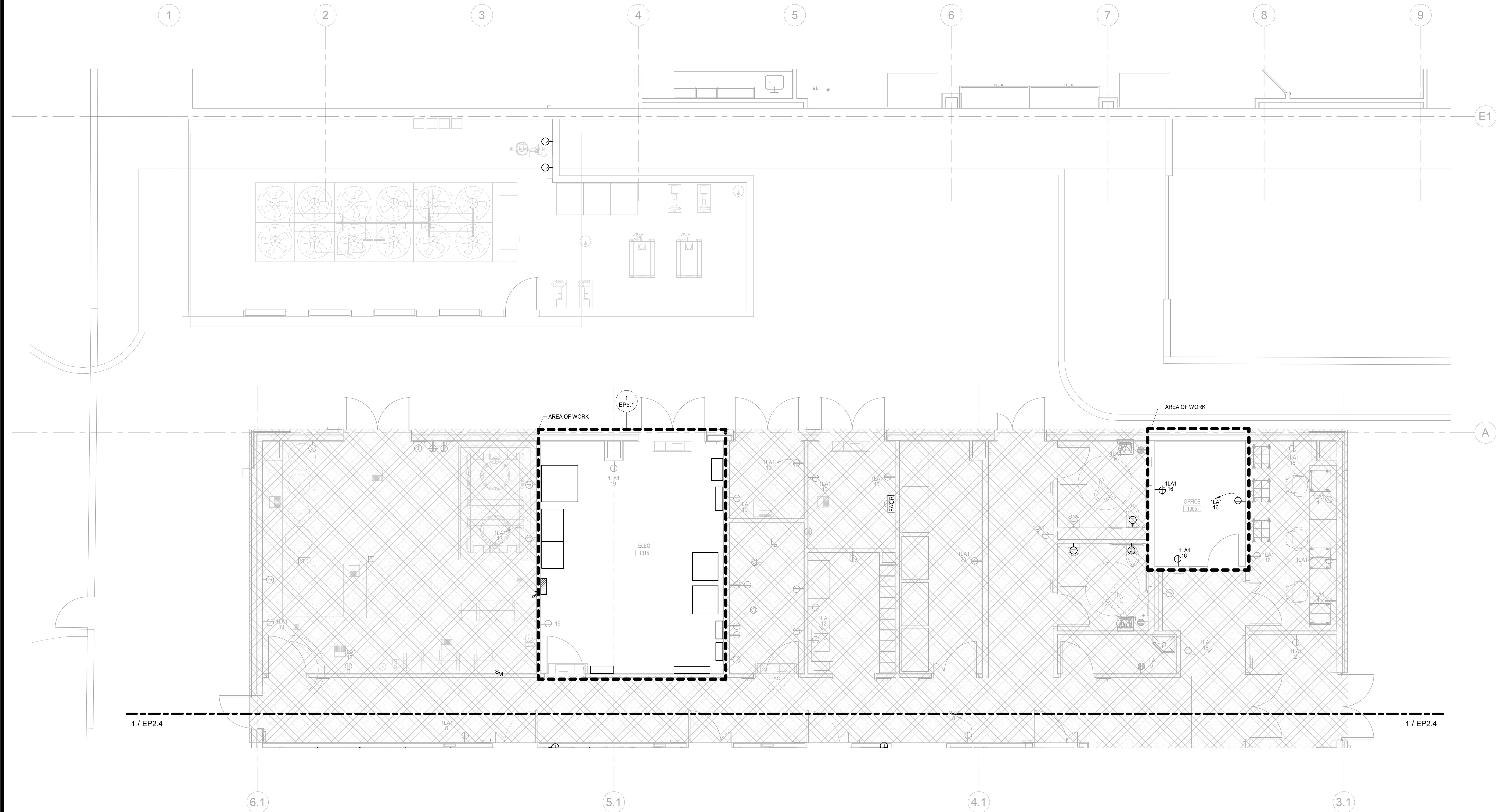
PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME

POWER PLAN - LEVEL 1 - SECTOR A - PHASE 2

FLOOR/SECTION PHASE DRAWING NO.

CD EP2.3



1 POWER PLAN - LEVEL 1 - PHASE 2
SCALE: 1/4" = 1'-0"

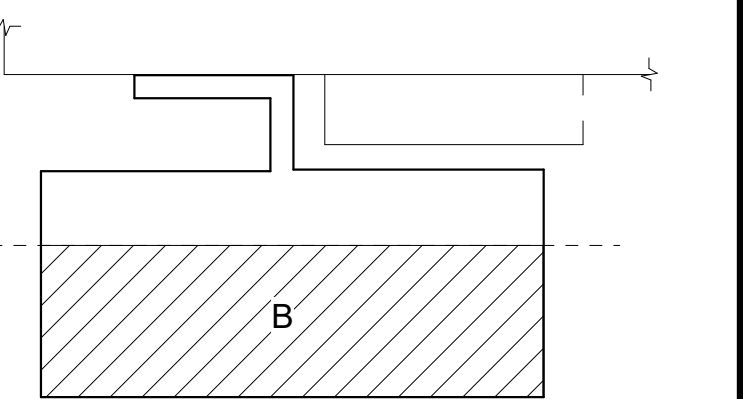
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- KEY NOTES:**
- 1 PROVIDE 1" C FOR UNDERGROUND POWER RUN.
 - 2 PROVIDE L5-20 TWIST LOCK RECEPTACLES. INSTALL POWER RECEPTACLES IN CEILING SERVICE PANELS. COORDINATE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF CEILING SERVICE PANELS.
 - 3 PROVIDE AND INSTALL DUAL CHANNEL MULTI-OUTLET SURFACE MOUNTED RACEWAY AT 42" AFF.

- GENERAL NOTES:**
1. ALL RECEPTACLES WITHIN 6FT FROM A SOURCE OF WATER SHALL BE GFCI-TYPE.
 2. ALL BRANCH CIRCUITS SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR. FOR ANY MULTI-WIRE BRANCH CIRCUITS (SUCH AS FOR ELECTRIFIED FURNITURE), TIE HANDLES SHALL BE PROVIDED IN ORDER TO COMPLY WITH NEC SECTION 210.4(B).
 3. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS AND QUANTITIES OF SMOKE FIRE DAMPERS AND ELECTRICAL SPECIFICATIONS FOR CIRCUITING REQUIREMENTS.
 4. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS AND QUANTITIES OF AIR VOLUME CONTROL BOXES AND ELECTRICAL SPECIFICATIONS FOR CIRCUITING REQUIREMENTS.
 5. REFER TO PLUMBING DRAWINGS FOR LOCATIONS AND QUANTITIES OF SINK FAUCETS AND FLUSH VALVES. PROVIDE 120V/1P POWER CONNECTING NO MORE THAN 12 PER CIRCUIT.
 6. PROVIDE 120V/1P POWER CONNECTION TO VAV/EA/V BOX TRANSFORMERS. CONNECT NO MORE THAN 10 VAV OR EAV BOXES PER 20A/1P CIRCUIT. REFER TO PANEL SCHEDULES FOR DETAILS. PROVIDE DISCONNECTING MEANS PER CODE.
 7. PROVIDE 120V/1P POWER CONNECTION TO SMOKE FIRE DAMPERS. CONNECT NO MORE THAN 10 SMOKE FIRE DAMPERS PER 20A/1P CIRCUIT. REFER TO PANEL SCHEDULES FOR DETAILS. PROVIDE DISCONNECTING MEANS PER CODE.

KEY PLAN



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SEAN WIECZOREK

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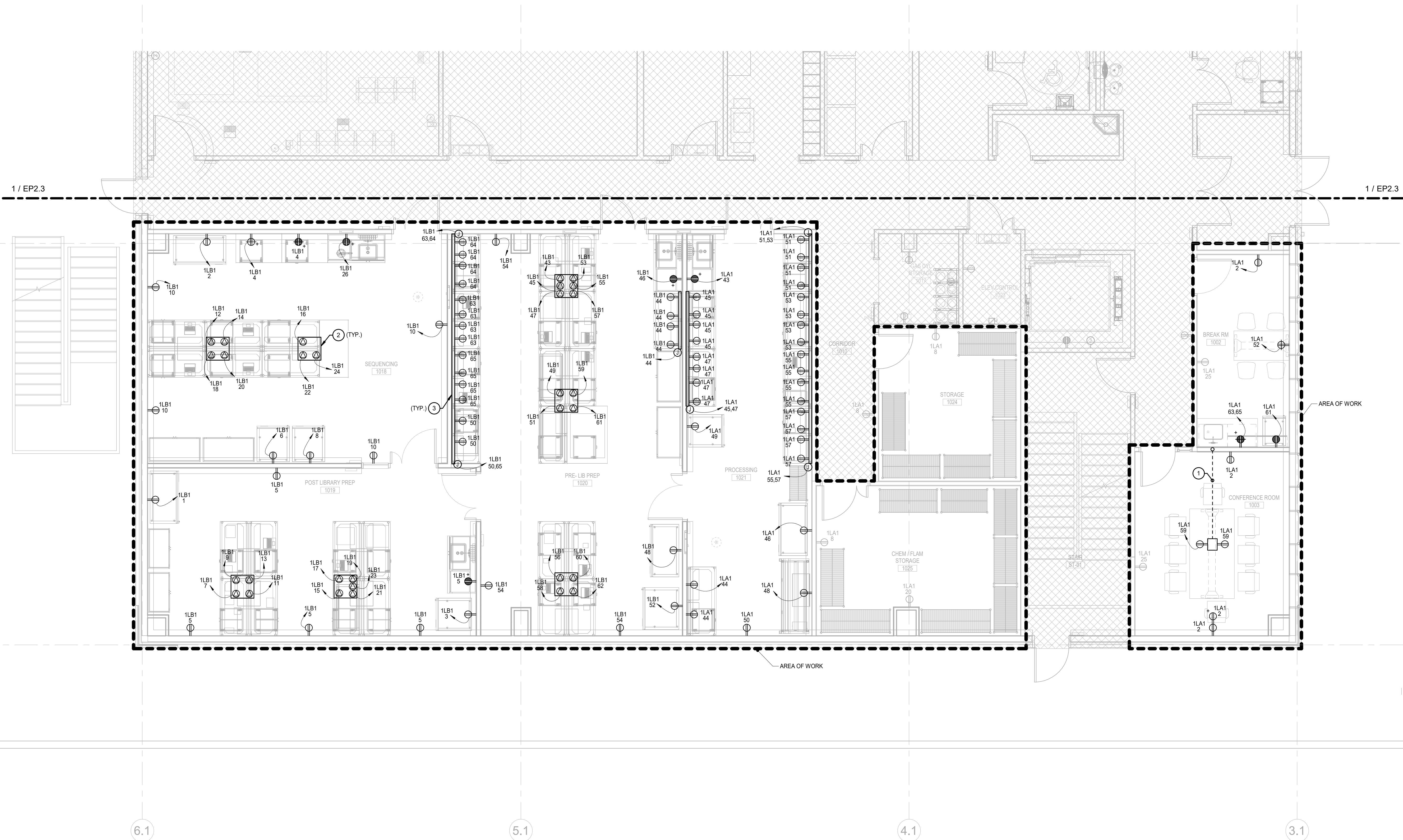
700 South M.L.K. Blvd Las Vegas, NV 89106

DRAWN BY: SW DATE: 10.11.2024

PROJECT NO. 20230523 SCALE: As indicated

DRAWING NAME: POWER PLAN - LEVEL 1 - SECTOR B - PHASE 2

FLOOR/SECTION PHASE: CD DRAWING NO. EP2.4



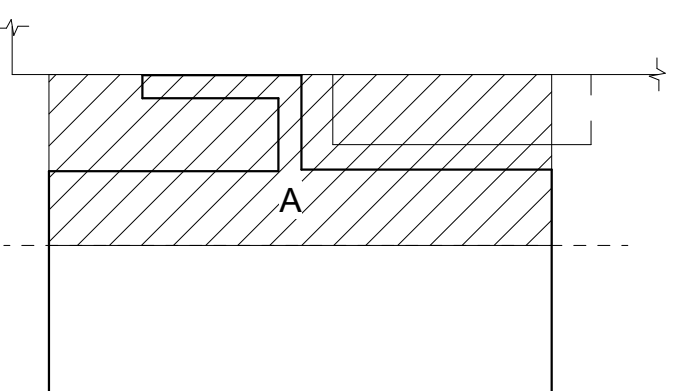
1 POWER PLAN - LEVEL 1 - PHASE 2 - SECTOR B
SCALE: 1/8" = 1'-0"



GENERAL NOTES:

1. ALL RECEPTACLES WITHIN 6FT FROM A SOURCE OF WATER SHALL BE GFCI-TYPE.
2. ALL BRANCH CIRCUITS SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR. FOR ANY MULTI-WIRE BRANCH CIRCUITS (SUCH AS FOR ELECTRIFIED FURNITURE), TIE-HANDLES SHALL BE PROVIDED IN ORDER TO COMPLY WITH NEC SECTION 210.4(B).
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5. REFER TO PLUMBING DRAWINGS FOR LOCATIONS AND QUANTITIES OF SINK FAUCETS AND FLUSH VALVES. PROVIDE 120V/1P POWER CONNECTING NO MORE THAN 12 PER CIRCUIT.
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7. PROVIDE 120V/1P POWER CONNECTION TO SMOKE FIRE DAMPERS. CONNECT NO MORE THAN 10 SMOKE FIRE DAMPERS PER 20A/1P CIRCUIT. REFER TO PANEL SCHEDULES FOR DETAILS. PROVIDE DISCONNECTING MEANS PER CODE.

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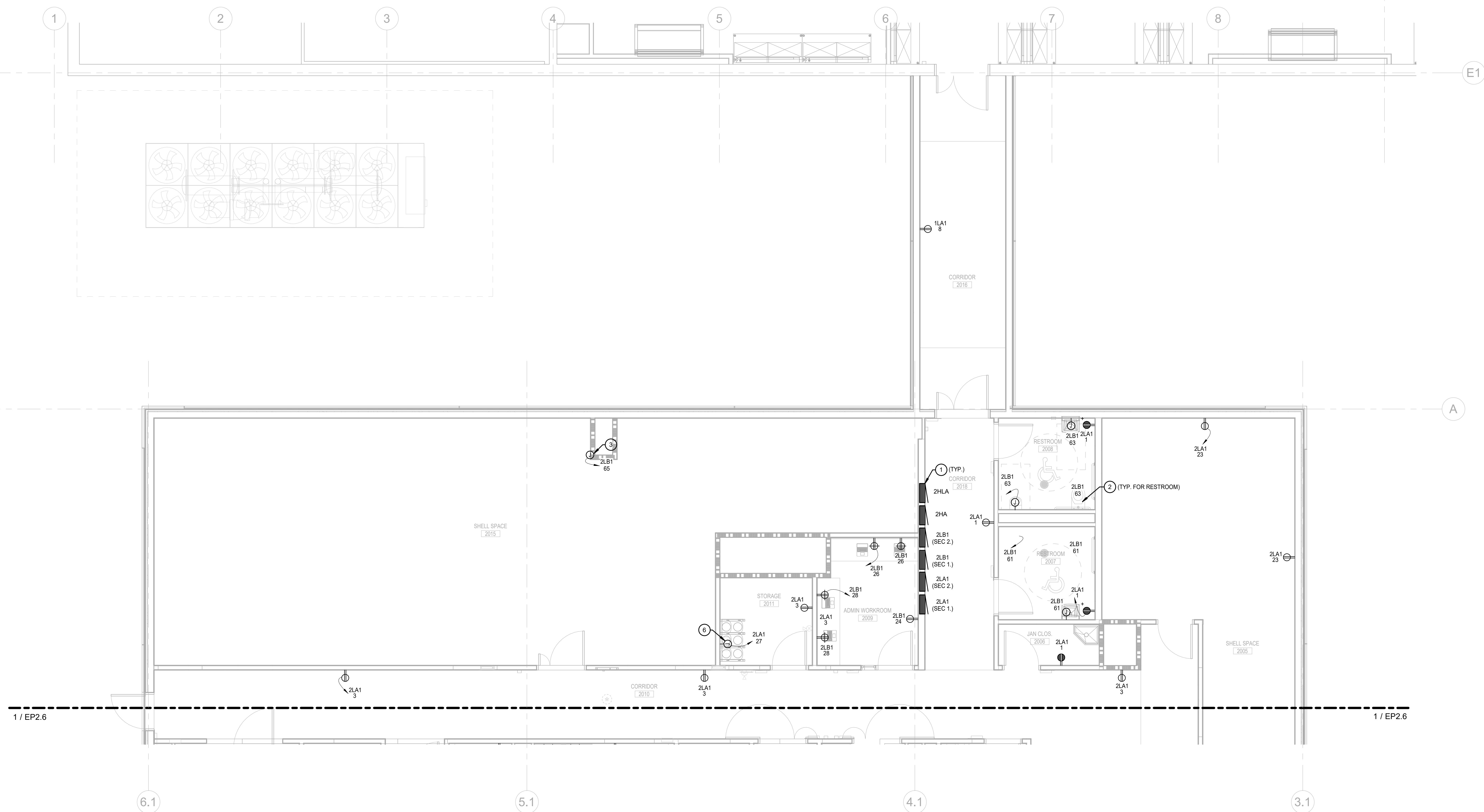
PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME

POWER PLAN - LEVEL 2 - SECTOR A - PHASE 1

FLOOR/SECTION PHASE DRAWING NO.

CD EP2.5



1 POWER PLAN - LEVEL 2 - PHASE 1
SCALE: 1/4" = 1'-0"

KEY NOTES:

1. PROVIDE EMPTY PHASE 2 BRANCH CIRCUIT CONDUITS WITH PULL WIRES UP TO ACCESSIBLE CEILING SPACE FOR APPLICABLE PHASE 2 PANELS. SEE PHASE 2 POWER PLANS FOR MORE DETAILS. PROVIDE FUTURE SPARE CONDUITS IN ADDITION PER SPECIFICATIONS.
2. PROVIDE 120V POWER FOR FAUCET AND VALVE SENSORS.
3. PROVIDE 120V POWER FOR TRAP PRIMER.
4. PROVIDE LS-20 TWIST LOCK RECEPTACLES. INSTALL POWER RECEPTACLES IN CEILING SERVICE PANELS. COORDINATE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF CEILING SERVICE PANELS.
5. PROVIDE AND INSTALL DUAL CHANNEL MULTI-OUTLET SURFACE MOUNTED RACEWAY AT 42" AFF.
6. PROVIDE 120V POWER FOR GAS MANIFOLD.

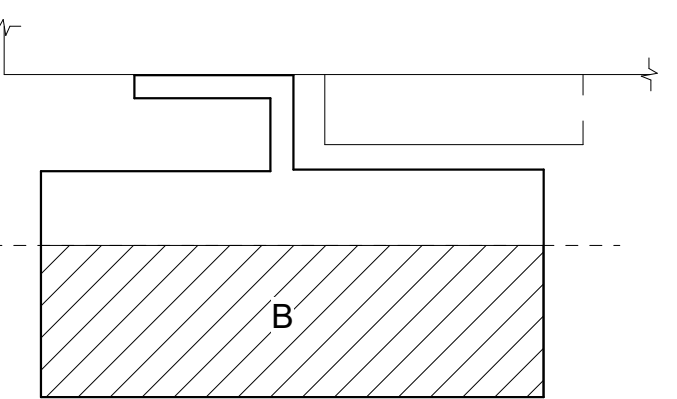
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GENERAL NOTES:

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7. PROVIDE 120V/1P POWER CONNECTION TO SMOKE FIRE DAMPERS. CONNECT NO MORE THAN 10 SMOKE FIRE DAMPERS PER 20A/1P CIRCUIT. REFER TO PANEL SCHEDULES FOR DETAILS. PROVIDE DISCONNECTING MEANS PER CODE.

KEY PLAN



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DRAWN BY: SW DATE: 10.11.2024

PROJECT NO: 20230523 SCALE: As indicated

DRAWING NAME: POWER PLAN - LEVEL 2 - SECTOR B - PHASE 1

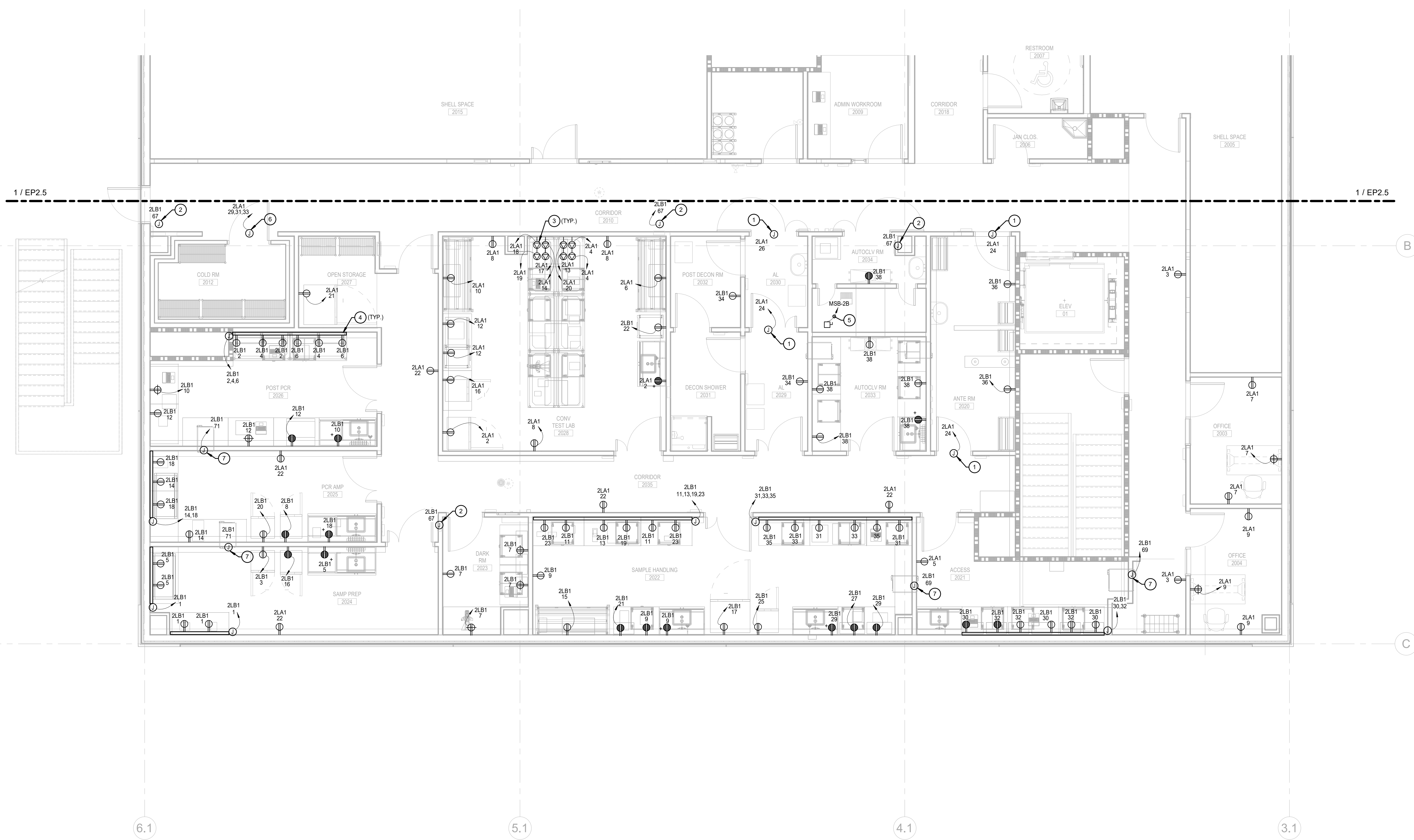
FLOOR/SECTION PHASE: DRAWING NO.

CD

EP2.6

KEY NOTES:

1. PROVIDE 120V POWER FOR AUTO DOORS.
2. PROVIDE 120V POWER FOR TRAP PRIMERS.
3. PROVIDE L5-20 TWIST LOCK RECEPTACLES. INSTALL POWER RECEPTACLES IN WALL.
4. PROVIDE AND INSTALL DUAL CHANNEL MULTI-OUTLET SURFACE MOUNTED RACEWAY AT 42" AFF.
5. REFER TO SINGLE LINE DIAGRAM FOR FEEDER INFORMATION.
6. PROVIDE POWER TO COLD ROOM CONTROL PANEL. COORDINATE ELECTRICAL REQUIREMENTS AND POINT OF CONNECTION WITH MANUFACTURER PRIOR TO ROUGH-IN.
7. PROVIDE 120V POWER FOR PASS-THRU.



1 POWER PLAN - LEVEL 2 - PHASE 1 - SECTOR B
SCALE: 1/4" = 1'-0"

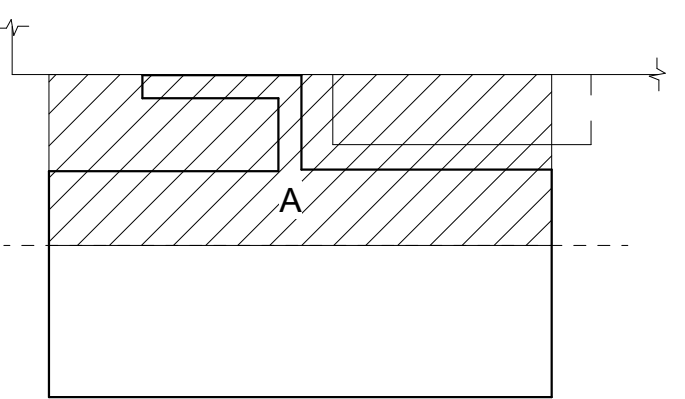
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GENERAL NOTES:

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2. ALL BRANCH CIRCUITS SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR. FOR ANY MULTI-WIRE BRANCH CIRCUITS (SUCH AS FOR ELECTRIFIED FURNITURE), TIE-HANDLES SHALL BE PROVIDED IN ORDER TO COMPLY WITH NEC SECTION 210.4(B).
3. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS AND QUANTITIES OF SMOKE FIRE DAMPERS AND ELECTRICAL SPECIFICATIONS FOR CIRCUITING REQUIREMENTS.
4. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS AND QUANTITIES OF AIR VOLUME CONTROL BOXES AND ELECTRICAL SPECIFICATIONS FOR CIRCUITING REQUIREMENTS.
5. REFER TO PLUMBING DRAWINGS FOR LOCATIONS AND QUANTITIES OF SINK FAUCETS AND FLUSH VALVES. PROVIDE 120V/1P POWER CONNECTING NO MORE THAN 12 PER CIRCUIT.
6. PROVIDE 120V/1P POWER CONNECTION TO VAVEAV BOX TRANSFORMERS. CONNECT NO MORE THAN 10 VAV OR EAV BOXES PER 20A/1P CIRCUIT. REFER TO PANEL SCHEDULES FOR DETAILS. PROVIDE DISCONNECTING MEANS PER CODE.
7. PROVIDE 120V/1P POWER CONNECTION TO SMOKE FIRE DAMPERS. CONNECT NO MORE THAN 10 SMOKE FIRE DAMPERS PER 20A/1P CIRCUIT. REFER TO PANEL SCHEDULES FOR DETAILS. PROVIDE DISCONNECTING MEANS PER CODE.

KEY PLAN



PRINCIPAL
DAVID KEITH
RESEARCH PLANNER
STEPH VARGAS
Electrical Engineer
KYLE KAVANAUGH, PE.
Electrical Model Lead
SEAN WIECZOREK

REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D		ISSUED FOR OWNER'S REVIEW	10.11.2024
C		ISSUED FOR OWNER'S REVIEW	09.26.2024
B		DESIGN DEVELOPMENT	05.24.2024
A		50% DD SET	05.10.2024

**SOUTHERN NEVADA
NEW BSL-3 LABORATORY
BUILDING**

700 South M.L.K. Blvd Las Vegas, NV 89106

DRAWN BY SW DATE 10.11.2024

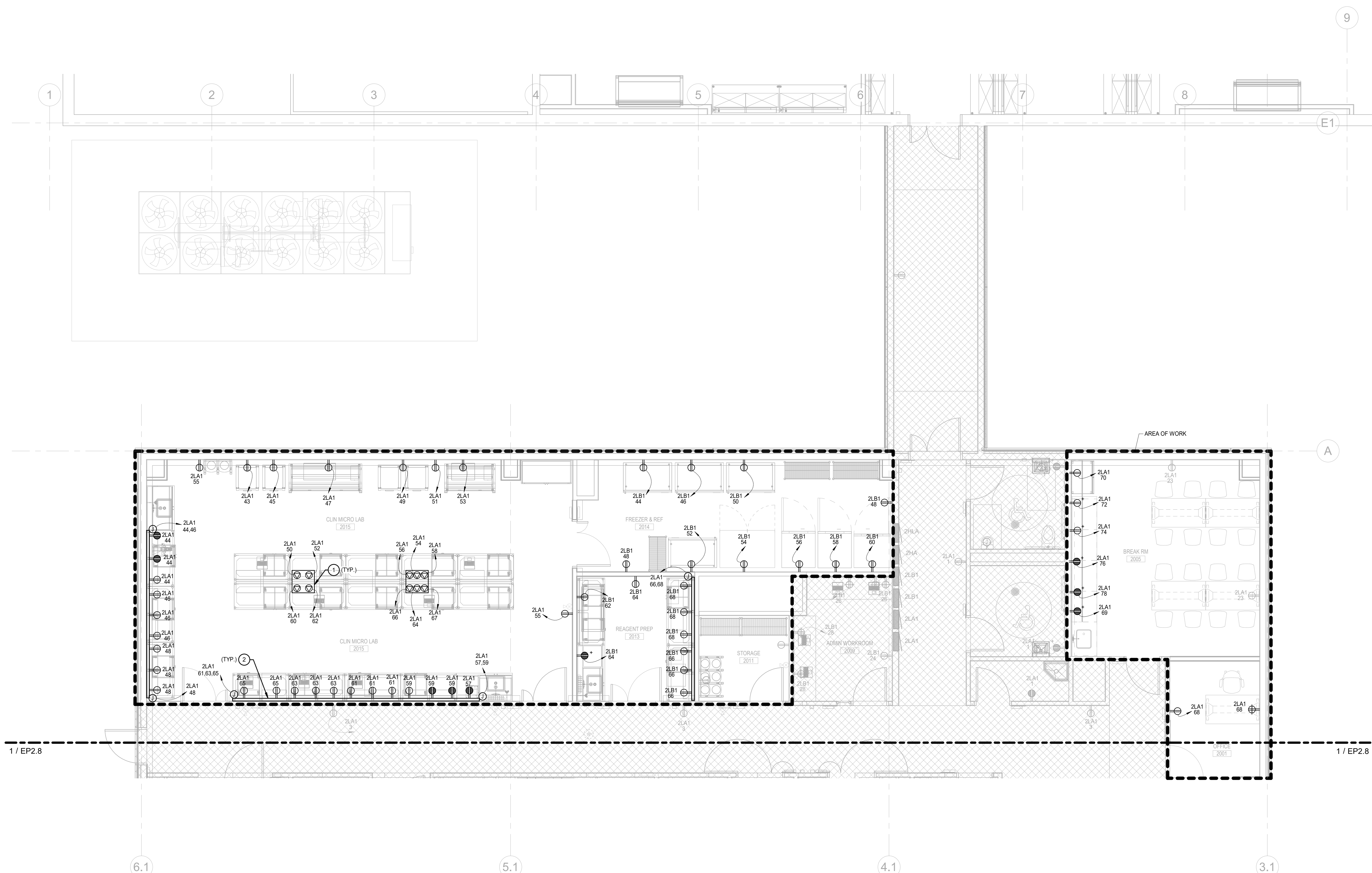
PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME

POWER PLAN - LEVEL 2 - SECTOR A - PHASE 2

FLOOR/SECTION PHASE DRAWING NO.

CD EP2.7



1 POWER PLAN - LEVEL 2 - PHASE 2
SCALE: 1/4" = 1'-0"

- KEY NOTES:**
1. PROVIDE LS-20 TWIST LOCK RECEPTACLES. INSTALL POWER RECEPTACLES IN CEILING SERVICE PANELS. COORDINATE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF CEILING SERVICE PANELS.
 2. PROVIDE AND INSTALL DUAL CHANNEL MULTI-OUTLET SURFACE MOUNTED RACEWAY AT 42" AFF.

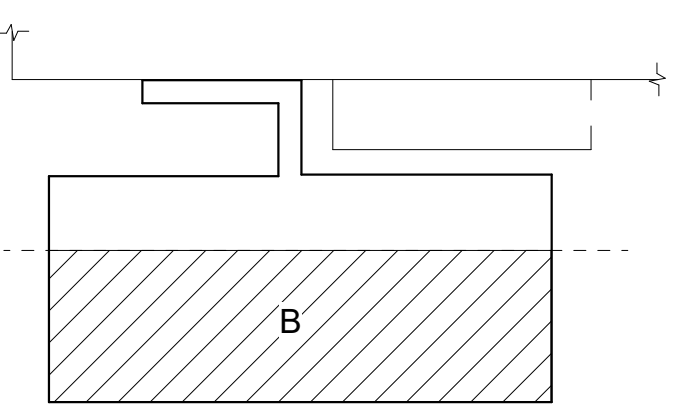
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GENERAL NOTES:

- ALL RECEPTACLES WITHIN 6FT FROM A SOURCE OF WATER SHALL BE GFCI-TYPE.
- ALL BRANCH CIRCUITS SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR. FOR ANY MULTI-WIRE BRANCH CIRCUITS (SUCH AS FOR ELECTRIFIED FURNITURE), TIE-HANDLES SHALL BE PROVIDED IN ORDER TO COMPLY WITH NEC SECTION 210.4(B).
- REFER TO MECHANICAL DRAWINGS FOR LOCATIONS AND QUANTITIES OF SMOKE FIRE DAMPERS AND ELECTRICAL SPECIFICATIONS FOR CIRCUITING REQUIREMENTS.
- REFER TO MECHANICAL DRAWINGS FOR LOCATIONS AND QUANTITIES OF AIR VOLUME CONTROL BOXES AND ELECTRICAL SPECIFICATIONS FOR CIRCUITING REQUIREMENTS.
- REFER TO PLUMBING DRAWINGS FOR LOCATIONS AND QUANTITIES OF SINK FAUCETS AND FLUSH VALVES. PROVIDE 120V/1P POWER CONNECTING NO MORE THAN 12 PER CIRCUIT.
- PROVIDE 120V/1P POWER CONNECTION TO VAVEAV BOX TRANSFORMERS. CONNECT NO MORE THAN 10 VAV OR EAV BOXES PER 20A/1P CIRCUIT. REFER TO PANEL SCHEDULES FOR DETAILS. PROVIDE DISCONNECTING MEANS PER CODE.
- PROVIDE 120V/1P POWER CONNECTION TO SMOKE FIRE DAMPERS. CONNECT NO MORE THAN 10 SMOKE FIRE DAMPERS PER 20A/1P CIRCUIT. REFER TO PANEL SCHEDULES FOR DETAILS. PROVIDE DISCONNECTING MEANS PER CODE.

KEY PLAN



PRINCIPAL
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RESEARCH PLANNER
STEPH VARGAS
Electrical Engineer
KYLE KAVANAUGH, PE.
Electrical Model Lead
SEAN WIECZOREK

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700 South M.L.K. Blvd Las Vegas, NV 89106

DRAWN BY: SW DATE: 10.11.2024

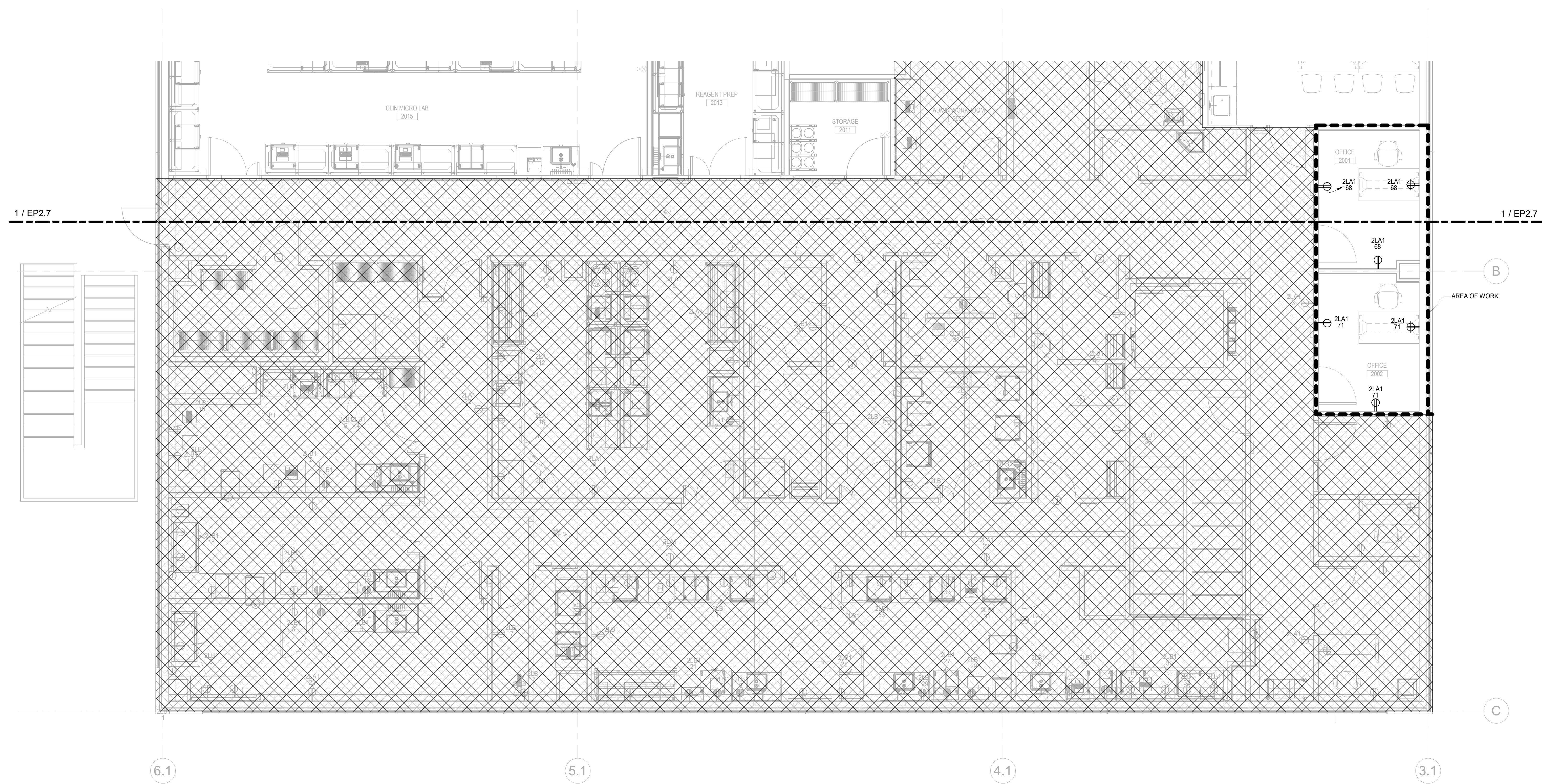
PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME

POWER PLAN - LEVEL 2 - SECTOR B - PHASE 2

FLOOR/SECTION PHASE DRAWING NO.

CD EP2.8



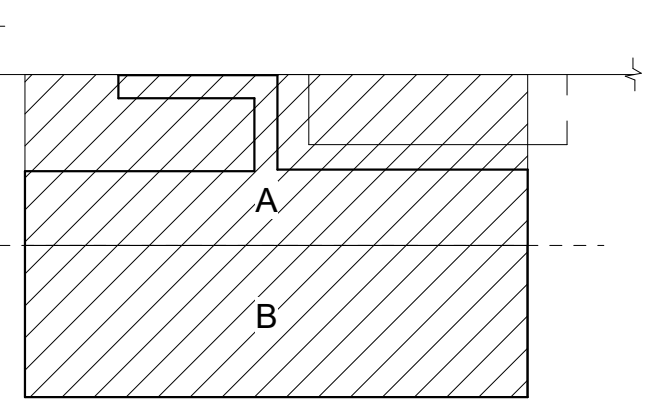
1 POWER PLAN - LEVEL 2 - PHASE 2 - SECTOR B
SCALE: 1/4" = 1'-0"

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- GENERAL NOTES:**
1. ALL LIGHTING CONTROL DEVICES ARE LOW VOLTAGE UNLESS OTHERWISE INDICATED. PROVIDE BACKBOX AND CONDUIT PER SPECIFICATIONS.
 2. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND SECTIONS FOR EXACT LOCATION OF CEILING MOUNTED LUMINAIRES.
 3. LOCATIONS OF LUMINAIRES IN ELECTRICAL AND MECHANICAL ROOMS SHALL BE COORDINATED WITH THE ROOM EQUIPMENT AND OVERHEAD UTILITIES.
 4. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL COMPONENTS INCLUDING SENSORS, MODULES, RELAYS, POWER PACKS, ETC. TO COORDINATE FINAL SELECTED LIGHTING CONTROL SYSTEM AND PROVIDE A FULLY FUNCTIONING LIGHTING CONTROL SYSTEM.
 5. FINAL QUANTITIES AND LOCATIONS OF ALL OCCUPANCY AND PHOTOCELL SENSORS SHALL BE PROVIDED BASED ON SUBMITTED LIGHTING CONTROL MANUFACTURER PRODUCT REQUIREMENTS AND SHALL BE INCLUDED IN THE SHOP DRAWING SUBMITTALS.
 6. ALL EMERGENCY FIXTURES, EXCLUDING EXIT SIGNS, ARE TO BE CONTROLLED ALONG WITH THE NORMAL POWER LIGHT FIXTURES. DURING A LOSS OF POWER, THEY SHALL ALL TURN COMPLETELY ON VIA AN APPROVED UL 924 RELAY.

KEY PLAN



KEY NOTES:

1. WALL MOUNTED STAIRWELL FIXTURE. REFER TO DETAILS 2, 3, AND 4 ON SHEET E6.1.2 FOR ELEVATION VIEW OF STAIRS AND FIXTURE QUANTITIES.
2. BYPASS TIMER SWITCH WITH WEATHERPROOF COVER SHALL TURN ON ALL LIGHTING FOR A DURATION OF 2 HOURS.

PRINCIPAL
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Electrical Model Lead
SEAN WIECZOREK

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DRAWN BY SW DATE 10.11.2024

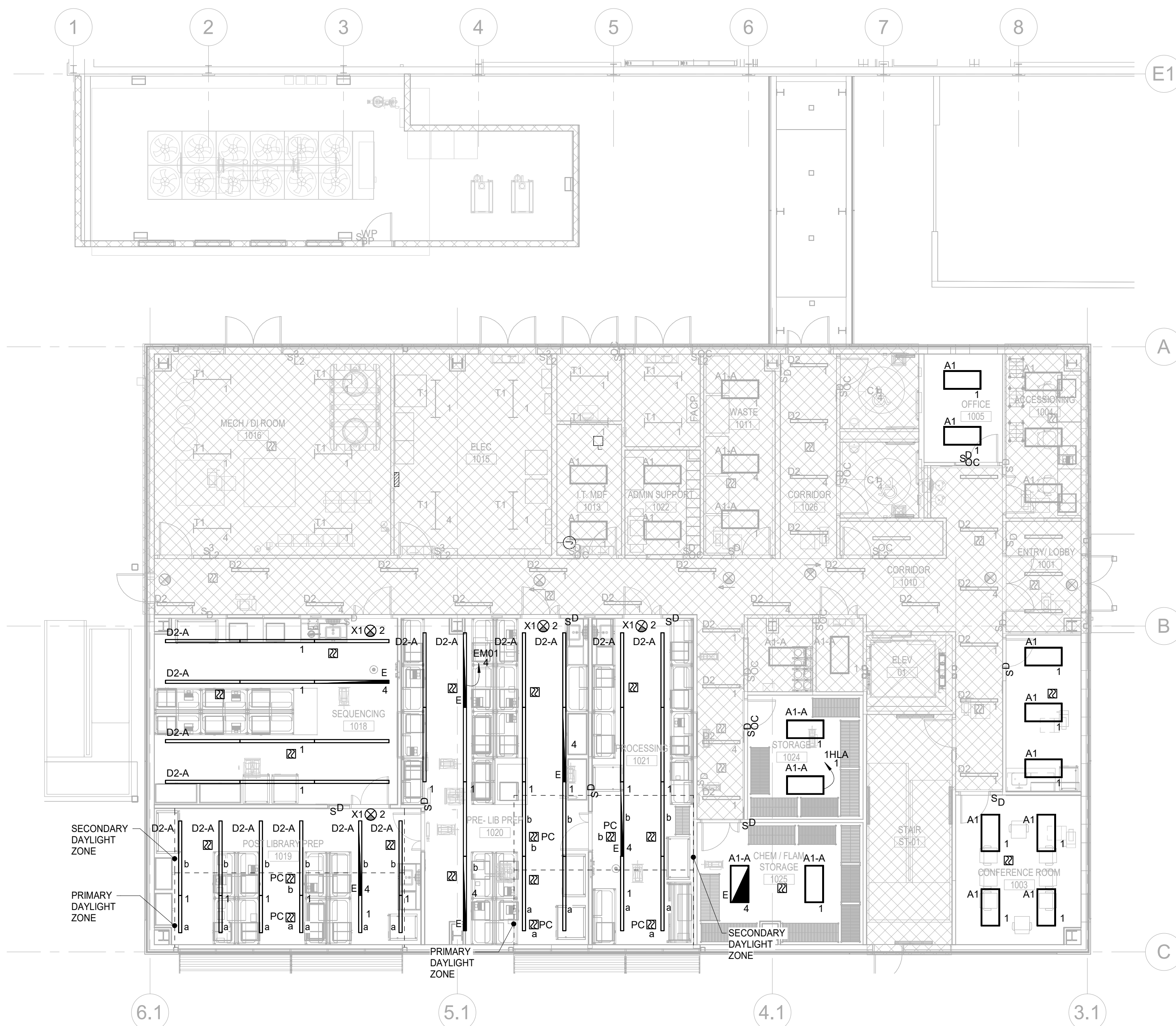
PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME

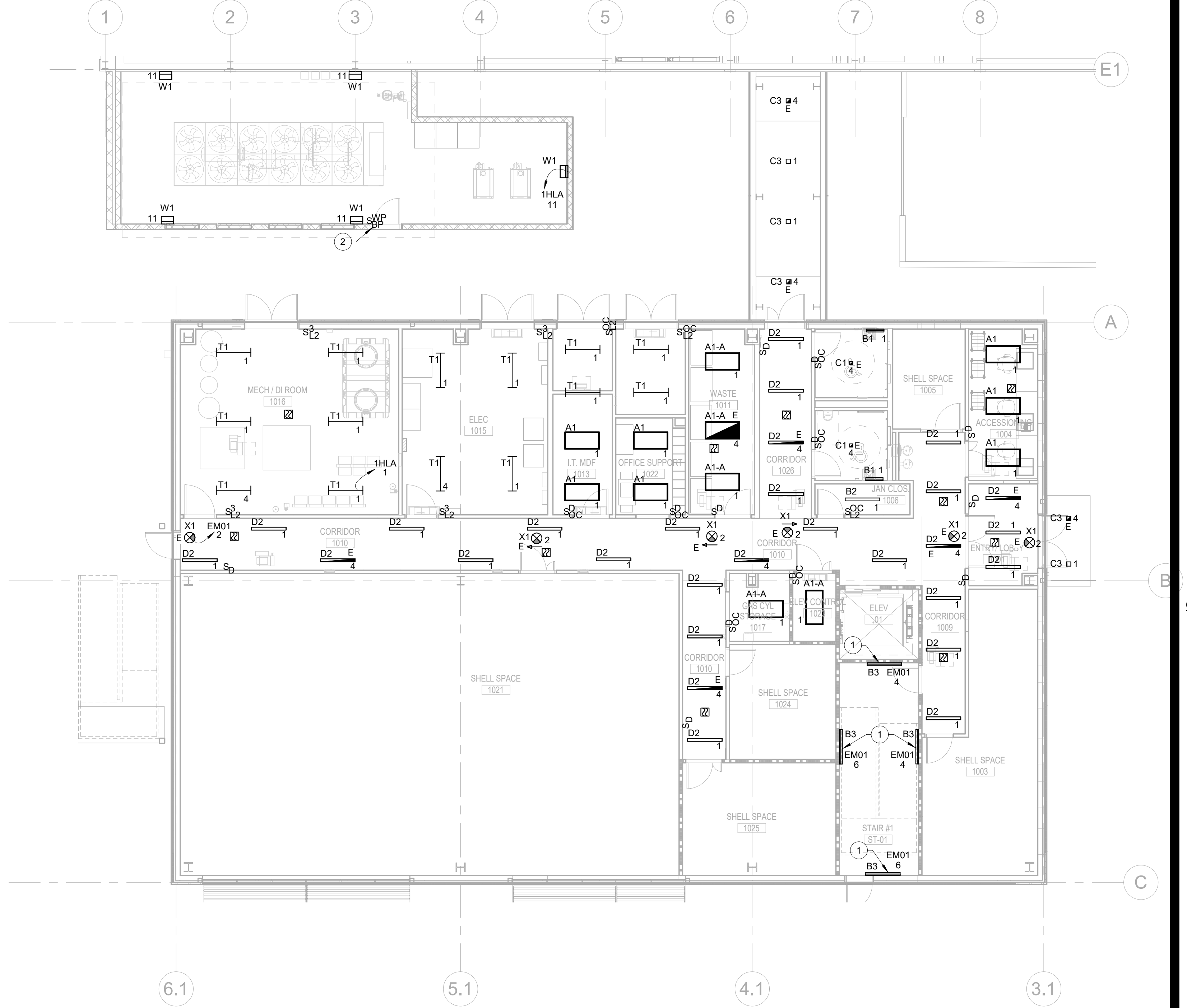
LIGHTING PLAN - LEVEL 1 - PHASE 1 AND PHASE 2

FLOOR/SECTION PHASE DRAWING NO.

CD EL2.1



2 LIGHTING PLAN - LEVEL 1 - PHASE 2
SCALE: 1/8" = 1'-0"

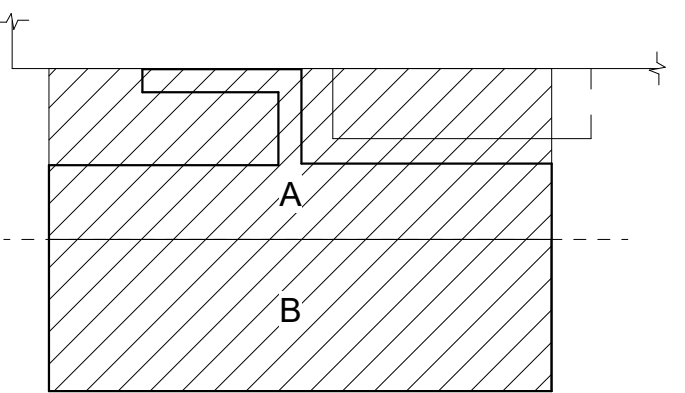


1 LIGHTING PLAN - LEVEL 1 - PHASE 1
SCALE: 1/8" = 1'-0"



- GENERAL NOTES:**
- ALL LIGHTING CONTROL DEVICES ARE LOW VOLTAGE UNLESS OTHERWISE INDICATED. PROVIDE BACKBOX AND CONDUIT PER SPECIFICATIONS.
 - REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND SECTIONS FOR EXACT LOCATION OF CEILING MOUNTED LUMINAIRES.
 - LOCATIONS OF LUMINAIRES IN ELECTRICAL AND MECHANICAL ROOMS SHALL BE COORDINATED WITH THE ROOM EQUIPMENT AND OVERHEAD UTILITIES.
 - CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL COMPONENTS INCLUDING SENSORS, MODULES, RELAYS, POWER PACKS, ETC. TO COORDINATE FINAL SELECTED LIGHTING CONTROL SYSTEM AND PROVIDE A FULLY FUNCTIONING LIGHTING CONTROL SYSTEM.
 - FINAL QUANTITIES AND LOCATIONS OF ALL OCCUPANCY AND PHOTOCELL SENSORS SHALL BE PROVIDED BASED ON SUBMITTED LIGHTING CONTROL MANUFACTURER PRODUCT REQUIREMENTS AND SHALL BE INCLUDED IN THE SHOP DRAWING SUBMITTALS.
 - ALL EMERGENCY FIXTURES, EXCLUDING EXIT SIGNS, ARE TO BE CONTROLLED ALONG WITH THE NORMAL POWER LIGHT FIXTURES. DURING A LOSS OF POWER, THEY SHALL ALL TURN COMPLETELY ON VIA AN APPROVED UL 924 RELAY.

KEY PLAN



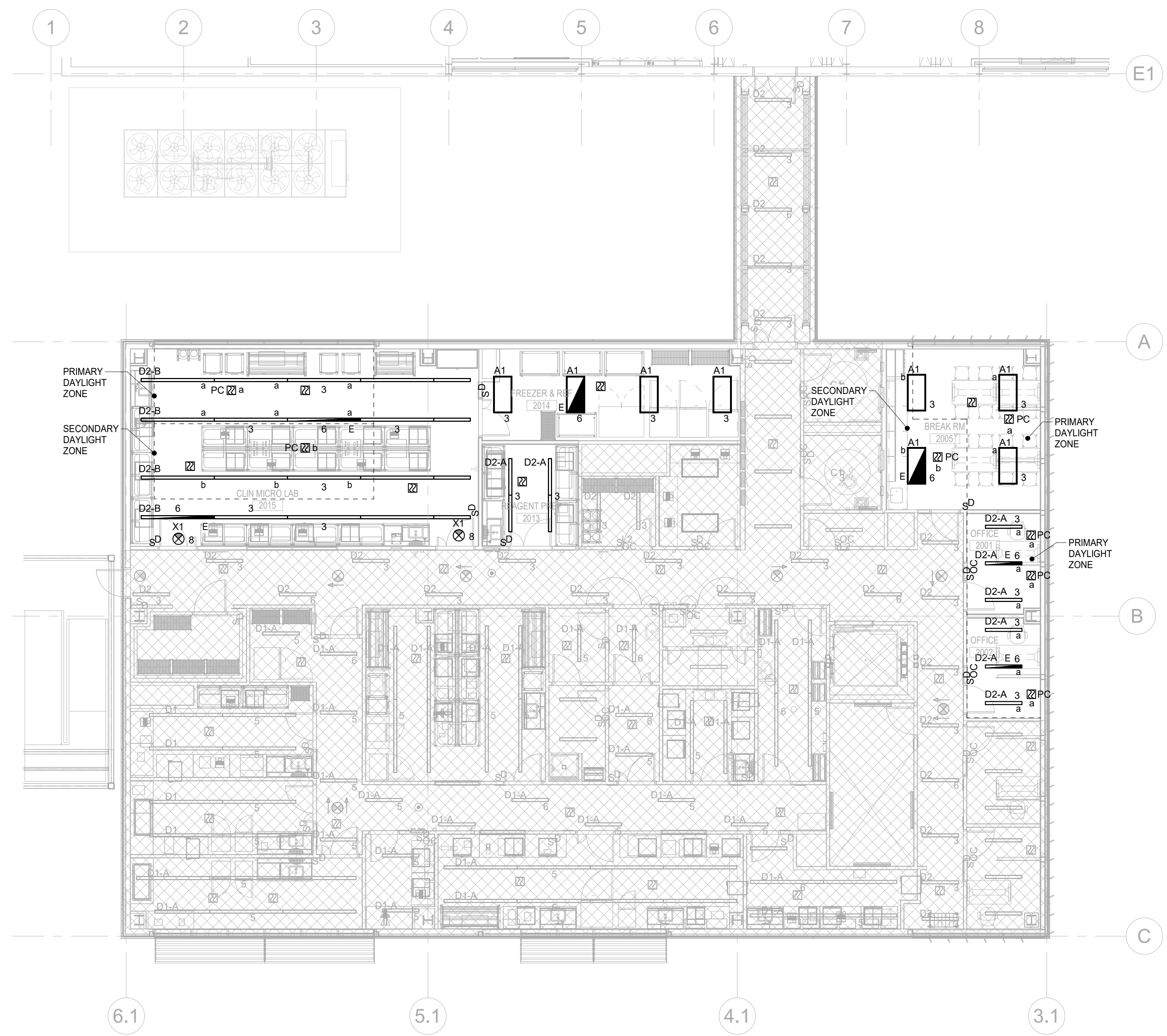
PRINCIPAL
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KYLE KAVANAUGH, PE.
Electrical Model Lead
SEAN WIECZOREK

REVISIONS

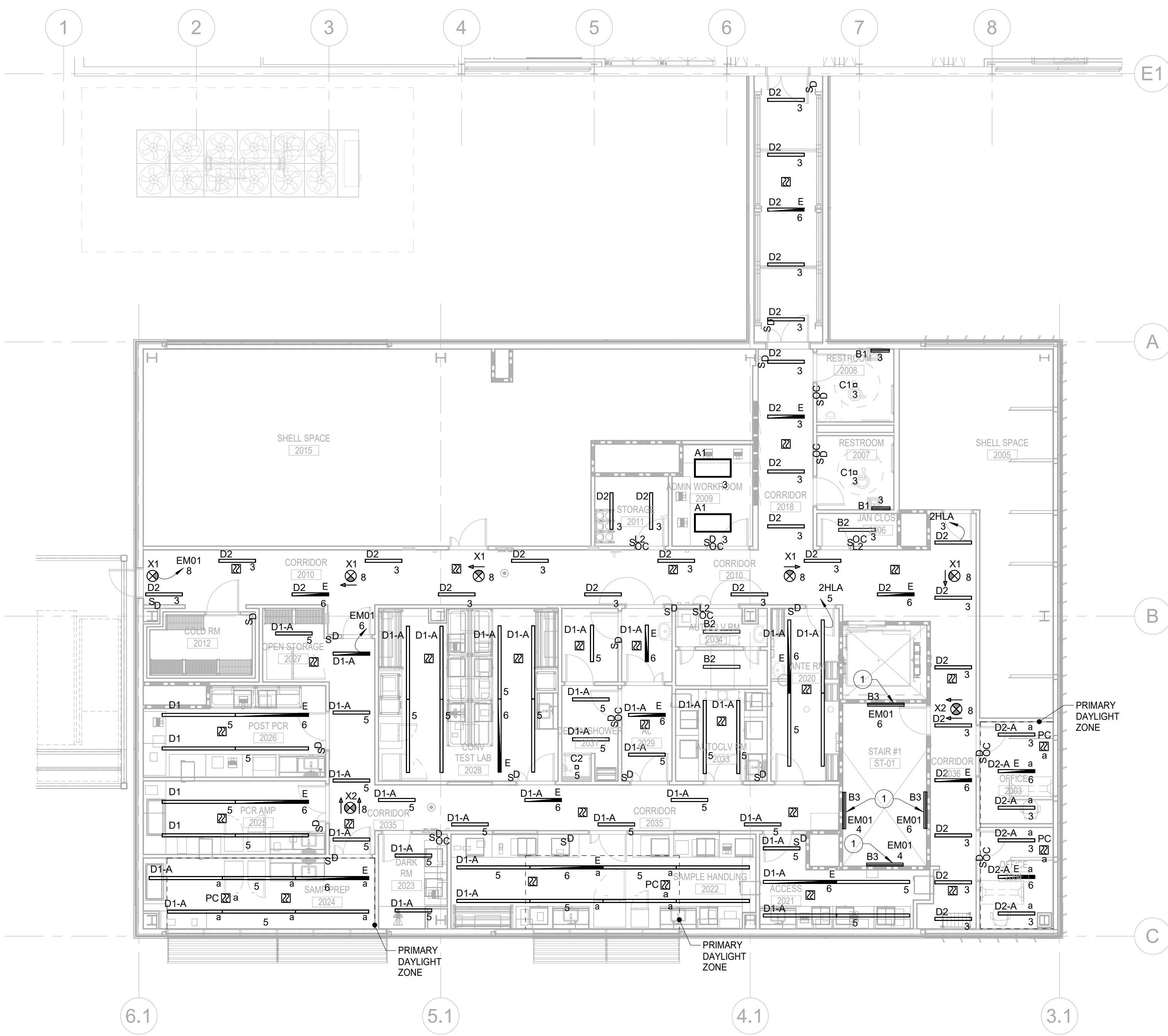
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NEW BSL-3 LABORATORY
BUILDING**
700 South M.L.K. Blvd Las Vegas, NV 89106

DRAWN BY: SW DATE: 10.11.2024
PROJECT NO: 20230523 SCALE: As indicated
DRAWING NAME: LIGHTING PLAN - LEVEL 2 - PHASE 1 AND PHASE 2
FLOOR/SECTION PHASE: DRAWING NO:
CD EL2.2



2 LIGHTING PLAN - LEVEL 2 - PHASE 2
SCALE: 1/8" = 1'-0"



1 LIGHTING PLAN - LEVEL 2 - PHASE 1
SCALE: 1/8" = 1'-0"

- KEY NOTES:**
- WALL MOUNTED STAIRWELL FIXTURE. REFER TO DETAILS 2, 3, AND 4 ON SHEET E8.1.2 FOR ELEVATION VIEW OF STAIRS AND FIXTURE QUANTITIES.



KEY PLAN

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PROJECT NO. 20230523 SCALE

DRAWING NAME

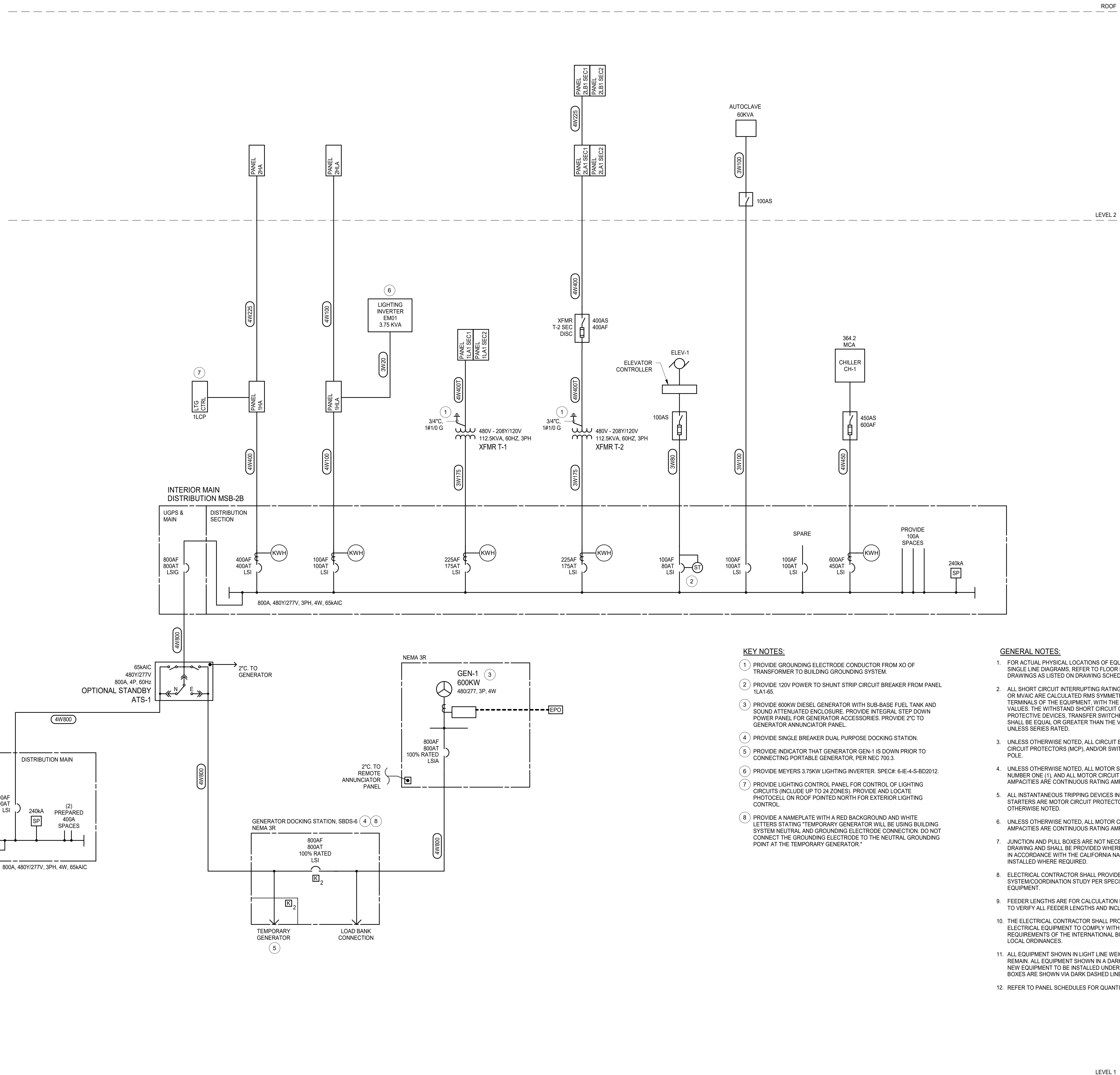
ELECTRICAL SINGLE LINE DIAGRAM - PHASE 1

FLOOR/SECTION PHASE DRAWING NO.

CD E3.1.1

FEEDER IDENTIFICATION SCHEDULE

TAG	WIRE (Cu) & CONDUIT	TAG	WIRE (Cu) & CONDUIT
3W20	3#12 & #12 G, 3/4"C	4W20	4#12 & #12 G, 3/4"C
3W30	3#10 & #10 G, 3/4"C	4W30	4#10 & #10 G, 3/4"C
3W40	3#8 & #10 G, 3/4"C	4W35T	4#8 & #8 G, 1"C
3W50	3#6 & #10 G, 1"C	4W40	4#8 & #10 G, 3/4"C
3W60	3#6 & #10 G, 1"C	4W50	4#6 & #10 G, 1"C
3W70	3#4 & #8 G, 1-1/2"C	4W50T	4#6 & #8 G, 1"C
3W80	3#2 & #8 G, 1-1/2"C	4W60	4#6 & #10 G, 1"C
3W90	3#2 & #8 G, 1-1/2"C	4W70	4#4 & #8 G, 1-1/2"C
3W100	3#2 & #8 G, 1-1/2"C	4W80	4#2 & #8 G, 1-1/2"C
3W110	3#1 & #6 G, 1-1/2"C	4W90	4#2 & #8 G, 1-1/2"C
3W125	3#10 & #6 G, 2"C	4W100	4#2 & #8 G, 1-1/2"C
3W150	3#10 & #6 G, 2"C	4W100T	4#1 & #6 G, 1-1/2"C
3W175	3#20 & #6 G, 2"C	4W110	4#1 & #6 G, 1-1/2"C
3W200	3#30 & #6 G, 2"C	4W125	4#10 & #6 G, 2"C
3W225	3#40 & #4 G, 2-1/2"C	4W150	4#10 & #6 G, 2"C
3W250	3-250KCMIL & #4 G, 3"C	4W150T	4#10 & #6 G, 2"C
3W300	3-350KCMIL & #4 G, 3"C	4W175	4#20 & #6 G, 2"C
3W350	3-500KCMIL & #2 G, 4"C	4W200	4#30 & #6 G, 2"C
3W400	3-600KCMIL & #2 G, 4"C	4W225	4#40 & #4 G, 2-1/2"C
3W450	2(3#40 & #2 G, 2-1/2"C)	4W250T	4-250KCMIL & #4 G, 3"C
3W500	2(3-250KCMIL & #2 G, 3"C)	4W250T	4-250KCMIL & #2 G, 3"C
3W600	2(3-350KCMIL & #10 G, 3"C)	4W300	4-350KCMIL & #4 G, 3"C
3W700	2(3-500KCMIL & #10 G, 4"C)	4W350	4-600KCMIL & #2 G, 4"C
3W800	2(3-600KCMIL & #10 G, 4"C)	4W400	4-600KCMIL & #2 G, 4"C
3W900	3(3-350KCMIL & #20 G, 3"C)	4W400T	4-600KCMIL & #10 G, 4"C
3W1000	3(3-500KCMIL & #20 G, 4"C)	4W450	2(4#40 & #2 G, 2-1/2"C)
3W1200	3(3-600KCMIL & #30 G, 4"C)	4W500	2(4-250KCMIL & #2 G, 3"C)
3W1400	4(3-500KCMIL & #40 G, 4"C)	4W500T	2(4-250KCMIL & #10 G, 3"C)
3W1600	4(3-600KCMIL & #40 G, 4"C)	4W600	2(4-350KCMIL & #1 G, 3"C)
3W1800	5(3-500KCMIL & 250KCMIL G, 4"C)	4W700	2(4-500KCMIL & #10 G, 4"C)
3W2000	5(3-600KCMIL & 250KCMIL G, 4"C)	4W800	2(4-600KCMIL & #10 G, 4"C)
3W2500	6(3-800KCMIL & 350KCMIL G, 4"C)	4W800T	2(4-600KCMIL & #30 G, 4"C)
3W3000	8(3-500KCMIL & 500KCMIL G, 4"C)	4W900	3(4-350KCMIL & #20 G, 3"C)
3W4000	10(3-600KCMIL & 500KCMIL G, 4"C)	4W1000	3(4-500KCMIL & #20 G, 4"C)
		4W1000T	3(4-500KCMIL & 250KCMIL G, 4"C)
		4W1200	3(4-600KCMIL & #30 G, 4"C)
		4W1400	4(4-500KCMIL & #40 G, 4"C)
		4W1600	4(4-600KCMIL & #40 G, 4"C)
		4W1800	5(4-500KCMIL & 250KCMIL G, 4"C)
		4W1800T	5(4-500KCMIL & 350KCMIL G, 4"C)
		4W2000	5(4-600KCMIL & 250KCMIL G, 4"C)
		4W2500	6(4-600KCMIL & 350KCMIL G, 4"C)
		4W3000	8(4-500KCMIL & 500KCMIL G, 4"C)
		4W4000	10(4-600KCMIL & 500KCMIL G, 4"C)





KEY PLAN

PRINCIPAL
DAVID KEITH
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STEPH VARGAS
Electrical Engineer
KYLE KAVANAUGH, PE.
Electrical Model Lead
SEAN WIECZOREK

REVISIONS

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**SOUTHERN NEVADA
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700 South M.L.K. Blvd Las Vegas, NV 89106

DRAWN BY SW DATE 10.11.2024

PROJECT NO. 20230523 SCALE

DRAWING NAME

ELECTRICAL SINGLE LINE DIAGRAM - PHASE 2

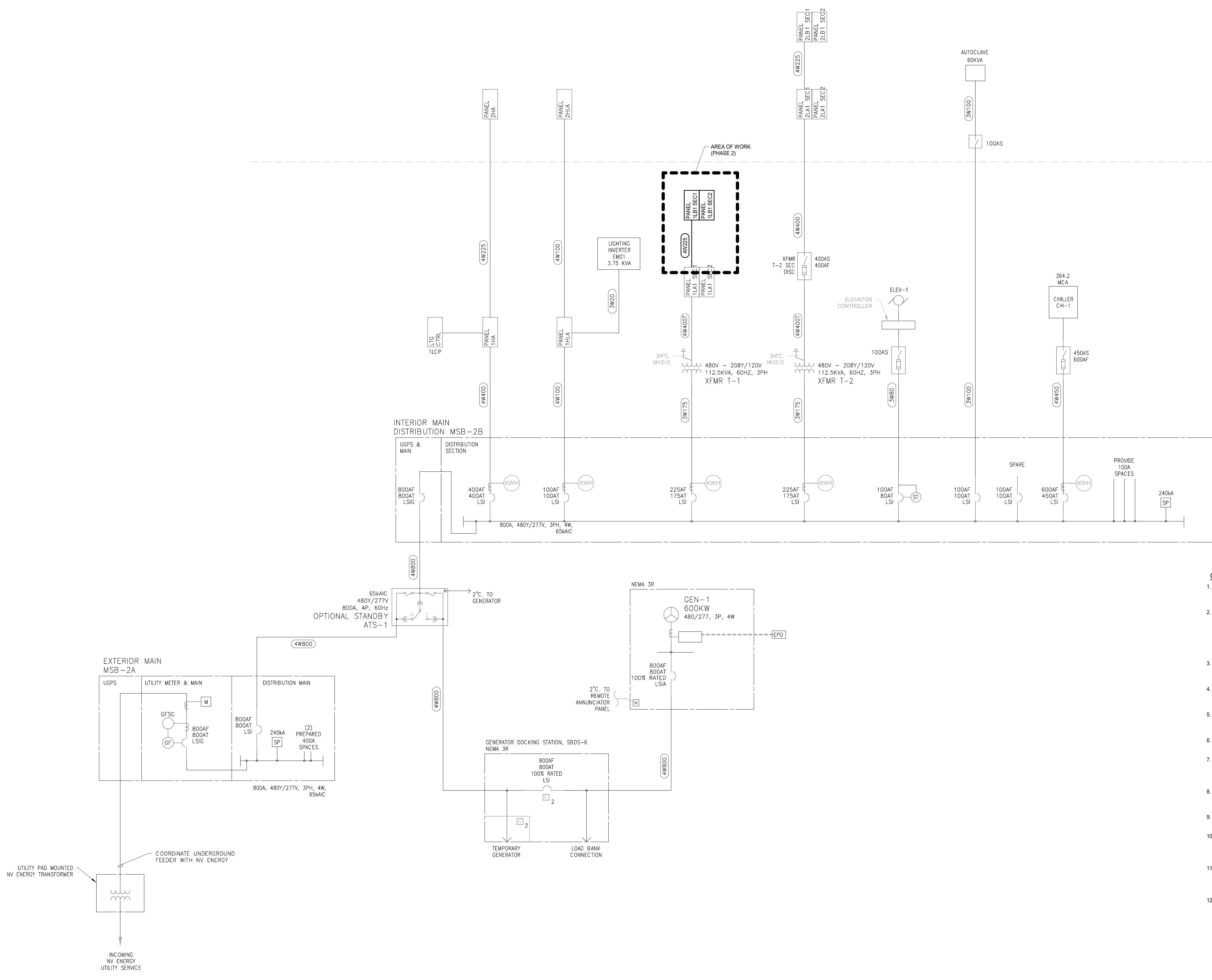
FLOOR/SECTION PHASE DRAWING NO.

CD E3.1.2

ROOF

LEVEL 2

LEVEL 1



GENERAL NOTES:

- FOR ACTUAL PHYSICAL LOCATIONS OF EQUIPMENT SHOWN ON SINGLE LINE DIAGRAMS, REFER TO FLOOR PLANS AND DETAIL DRAWINGS AS LISTED ON DRAWING SCHEDULE.
- ALL SHORT CIRCUIT INTERRUPTING RATINGS SHOWN, WHETHER AIC OR MVAIC ARE CALCULATED RMS SYMMETRICAL VALUES AT THE LINE TERMINALS OF THE EQUIPMENT, WITH THE EXCEPTION OF 10,000AIC VALUES. THE WITHSTAND SHORT CIRCUIT CURRENT RATINGS OF PROTECTIVE DEVICES, TRANSFER SWITCHES, AND BUS BRACING SHALL BE EQUAL OR GREATER THAN THE VALUES INDICATED UNLESS SERIES RATED.
- UNLESS OTHERWISE NOTED, ALL CIRCUIT BREAKERS, MOTOR CIRCUIT PROTECTORS (MCP), AND/OR SWITCHES ARE THREE (3) POLE.
- UNLESS OTHERWISE NOTED, ALL MOTOR STARTERS SHALL BE SIZE NUMBER ONE (1), AND ALL MOTOR CIRCUIT PROTECTOR (MCP) AMPACITIES ARE CONTINUOUS RATING AMPERES.
- ALL INSTANTANEOUS TRIPPING DEVICES IN COMBINATION MOTOR STARTERS ARE MOTOR CIRCUIT PROTECTORS (MCP) UNLESS OTHERWISE NOTED.
- UNLESS OTHERWISE NOTED, ALL MOTOR CIRCUIT PROTECTOR (MCP) AMPACITIES ARE CONTINUOUS RATING AMPERES.
- JUNCTIONS AND PULL BOXES ARE NOT NECESSARILY SHOWN ON THIS DRAWING AND SHALL BE PROVIDED WHERE NECESSARY AND SIZED IN ACCORDANCE WITH THE CALIFORNIA NATIONAL CODE AND INSTALLED WHERE REQUIRED.
- ELECTRICAL CONTRACTOR SHALL PROVIDE A POWER SYSTEM COORDINATION STUDY PER SPECIFICATIONS OF ALL EQUIPMENT.
- FEEDER LENGTHS ARE FOR CALCULATION PURPOSES. CONTRACTOR TO VERIFY ALL FEEDER LENGTHS AND INCLUDE IN BID.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE SUPPORT FOR ALL ELECTRICAL EQUIPMENT TO COMPLY WITH THE SEISMIC REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE AND ALL LOCAL ORDINANCES.
- ALL EQUIPMENT SHOWN IN LIGHT LINE WEIGHT IS EXISTING TO REMAIN. ALL EQUIPMENT SHOWN IN A DARK SOLID LINE WEIGHT IN NEW EQUIPMENT TO BE INSTALLED UNDER THIS CONTRACT. SCOPE BOXES ARE SHOWN VIA DARK DASHED LINES.
- REFER TO PANEL SCHEDULES FOR QUANTITIES OF CIRCUITS.

1 ELECTRICAL SINGLE LINE DIAGRAM - PHASE 2
SCALE: NTS

11/11/2024 7:22:08 AM Autodesk Docs/020230523 - South Nevada Health District MLK BSL-3 LAB/20230523_E22_CENTRAL.rvt



- GENERAL NOTES:**
- GROUNDING SHALL CONFORM TO ARTICLE 250 OF THE NEC AND DIVISION 26 SPECIFICATIONS.
 - UNLESS OTHERWISE NOTED, ALL ENCLOSURE BONDING JUMPERS SHALL BE #6 AWG. MINIMUM.
 - ALL GROUNDING CONDUCTORS OUTSIDE OF AN ELECTRICAL EQUIPMENT ENCLOSURE SHALL BE PROTECTED BY PROVIDING A RACEWAY.
 - CONDUITS ATTACHED TO ELECTRICAL EQUIPMENT ENCLOSURES SHALL BE SECURELY BONDED TO THOSE ENCLOSURES WITH GROUND FITTINGS.
 - REFER TO SINGLE LINE DIAGRAMS OR SPECIFICATIONS FOR ALL CONDUCTOR SIZES NOT INDICATED ON THIS DRAWING.

KEY PLAN

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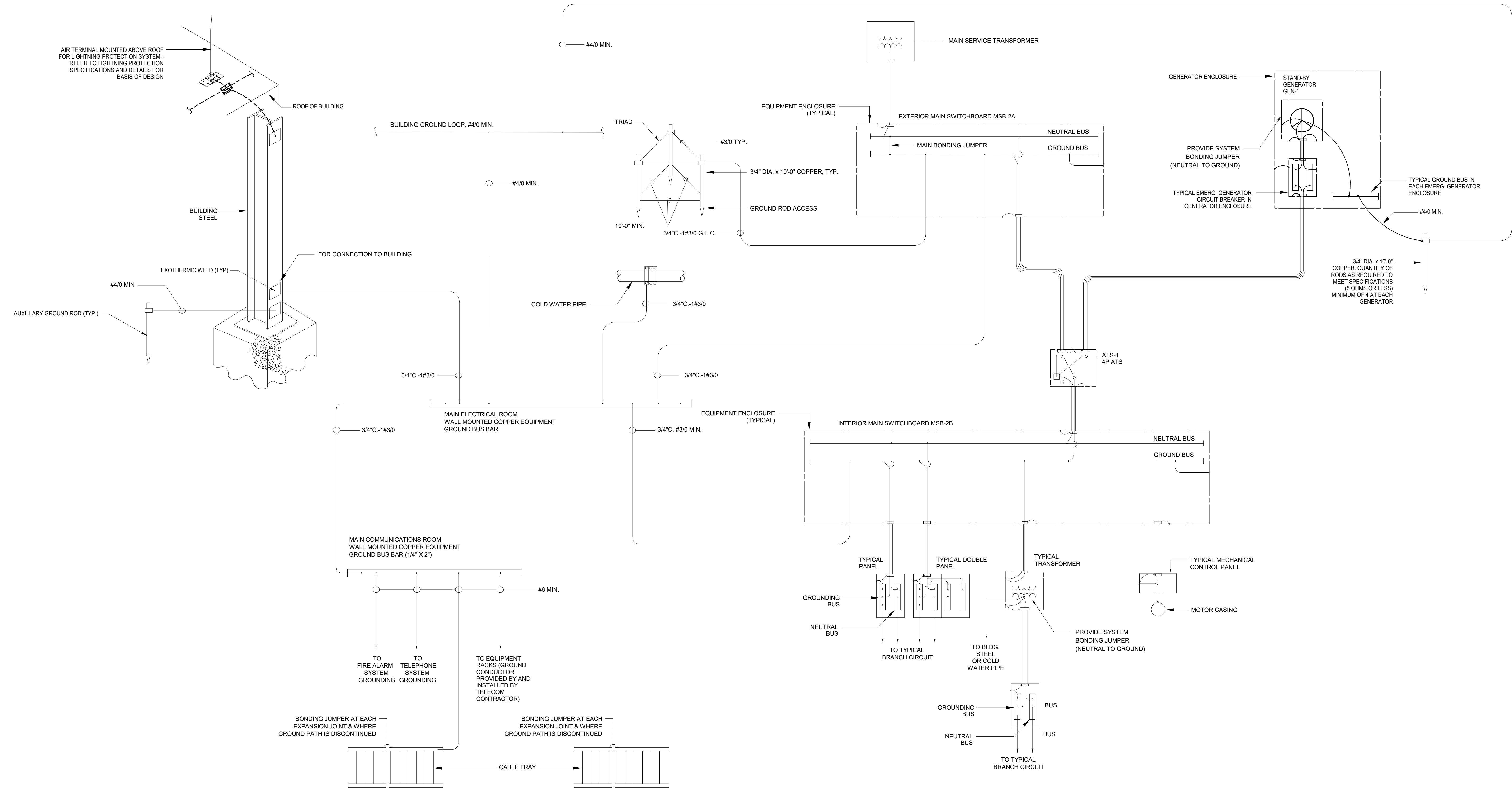
DRAWN BY *Author* DATE 10.11.2024

PROJECT NO. 20230523 SCALE 12" = 1'-0"

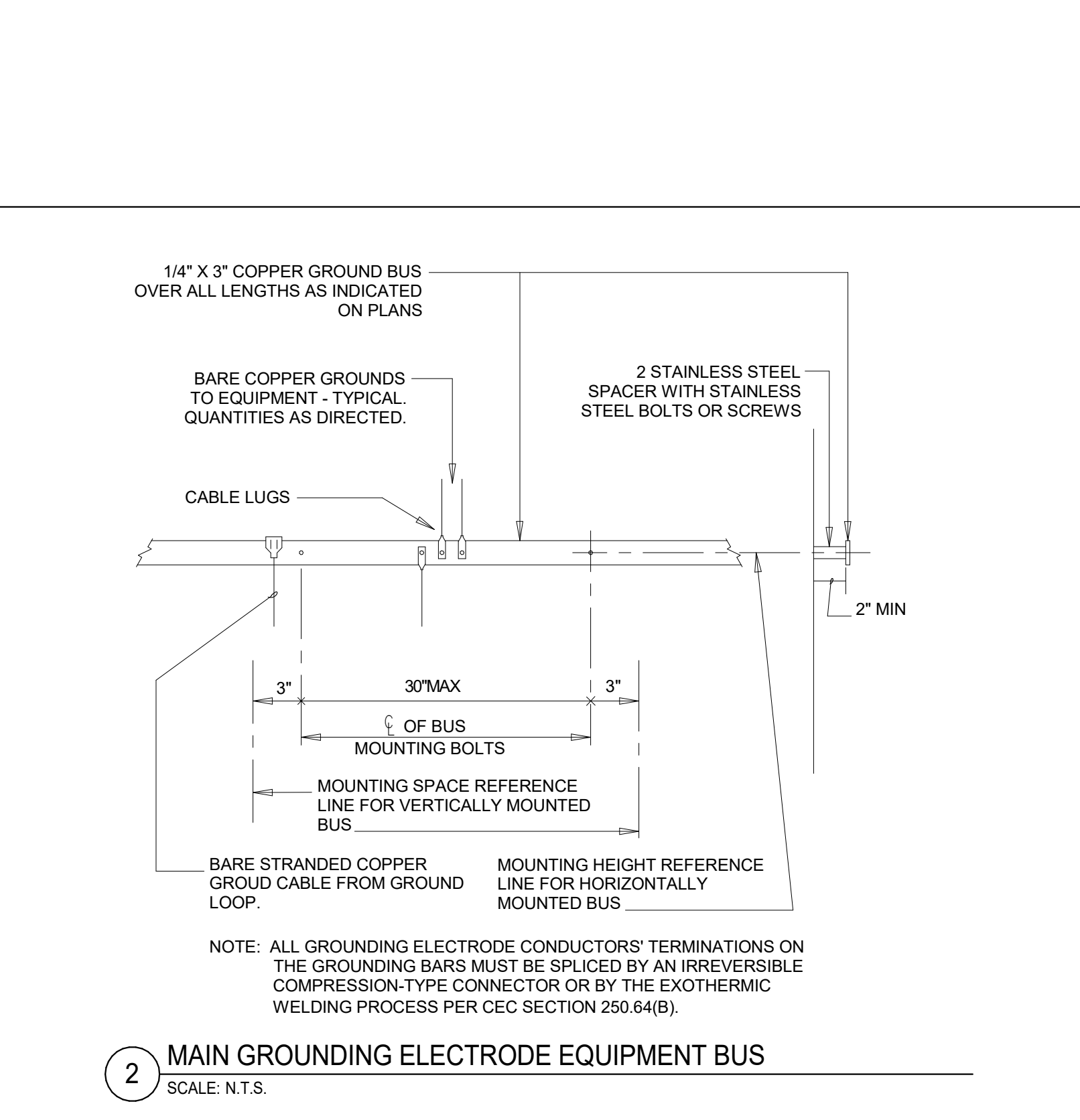
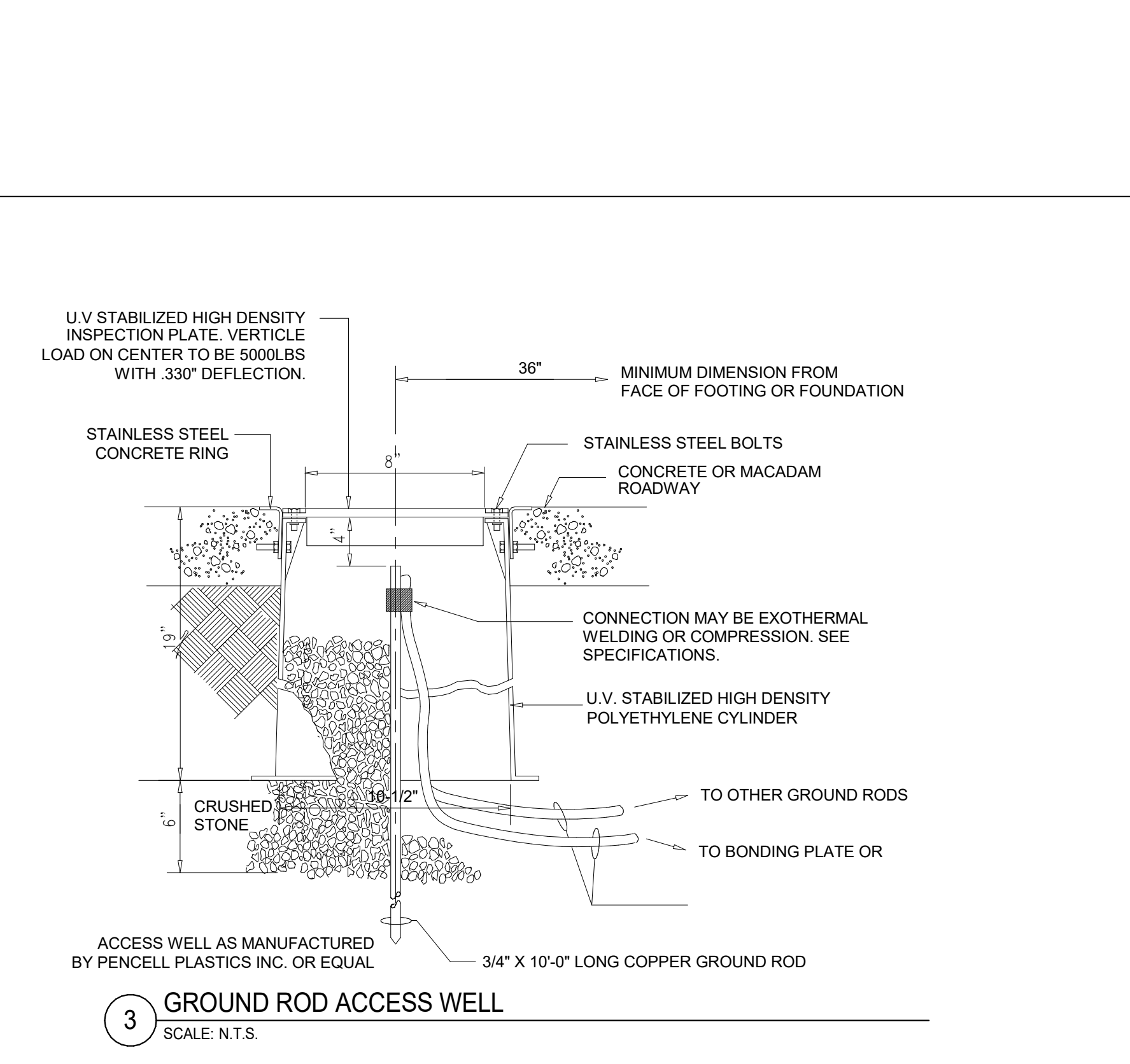
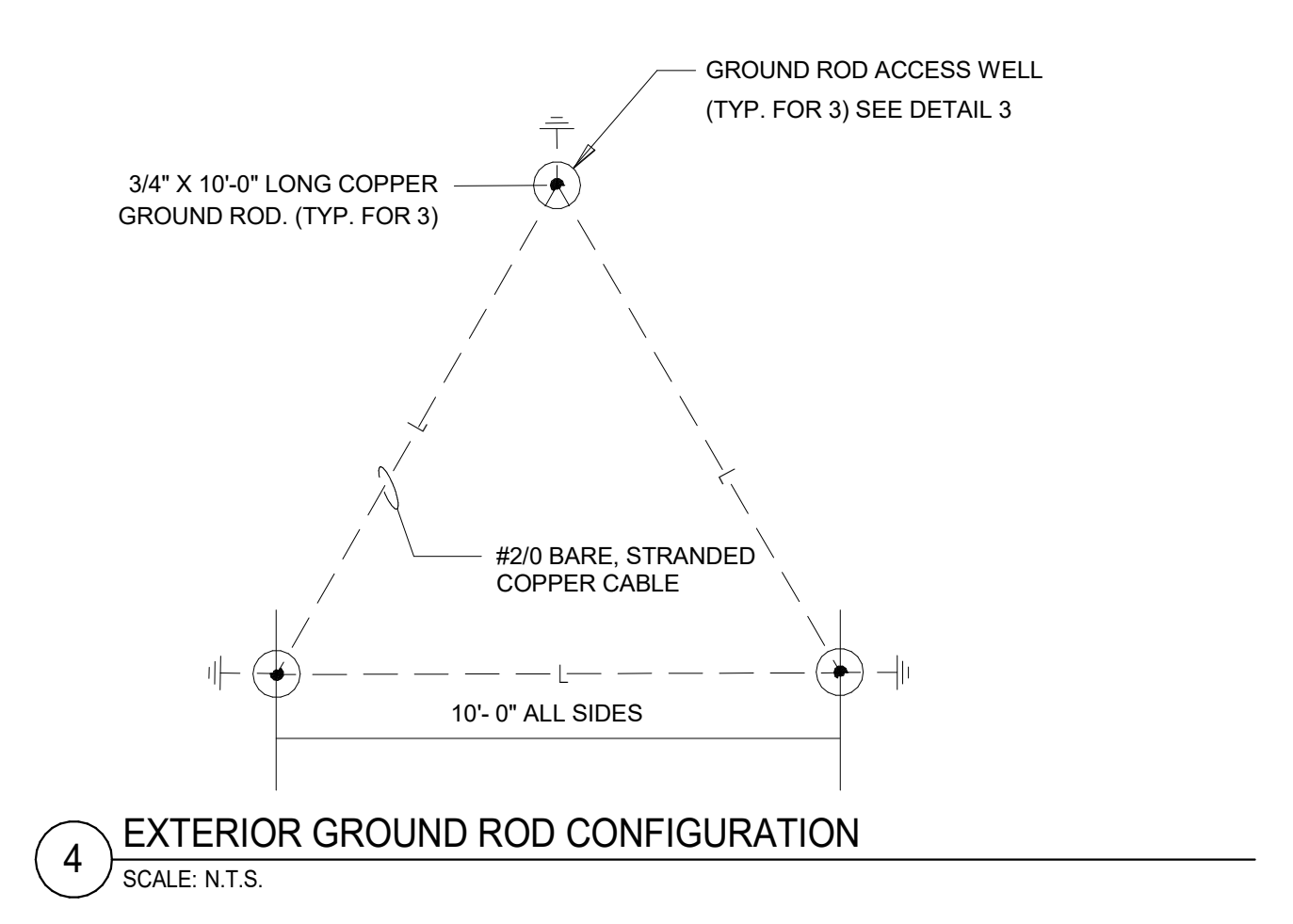
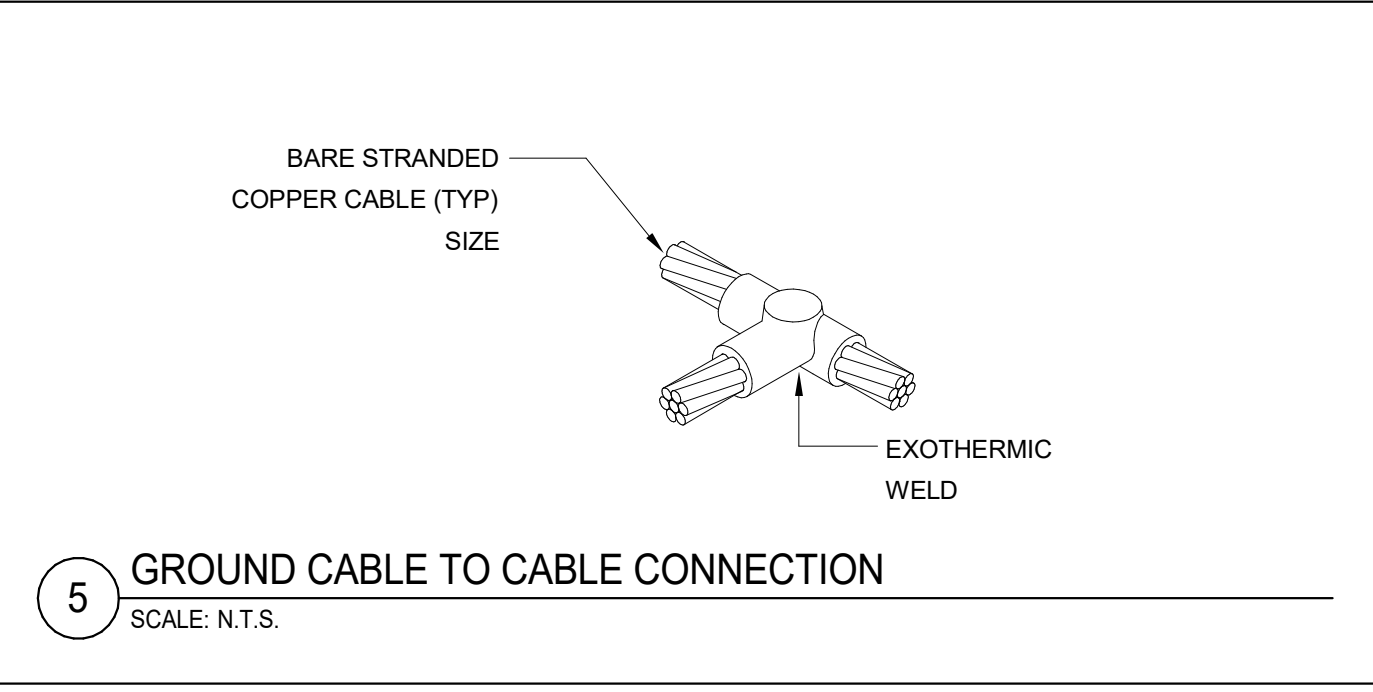
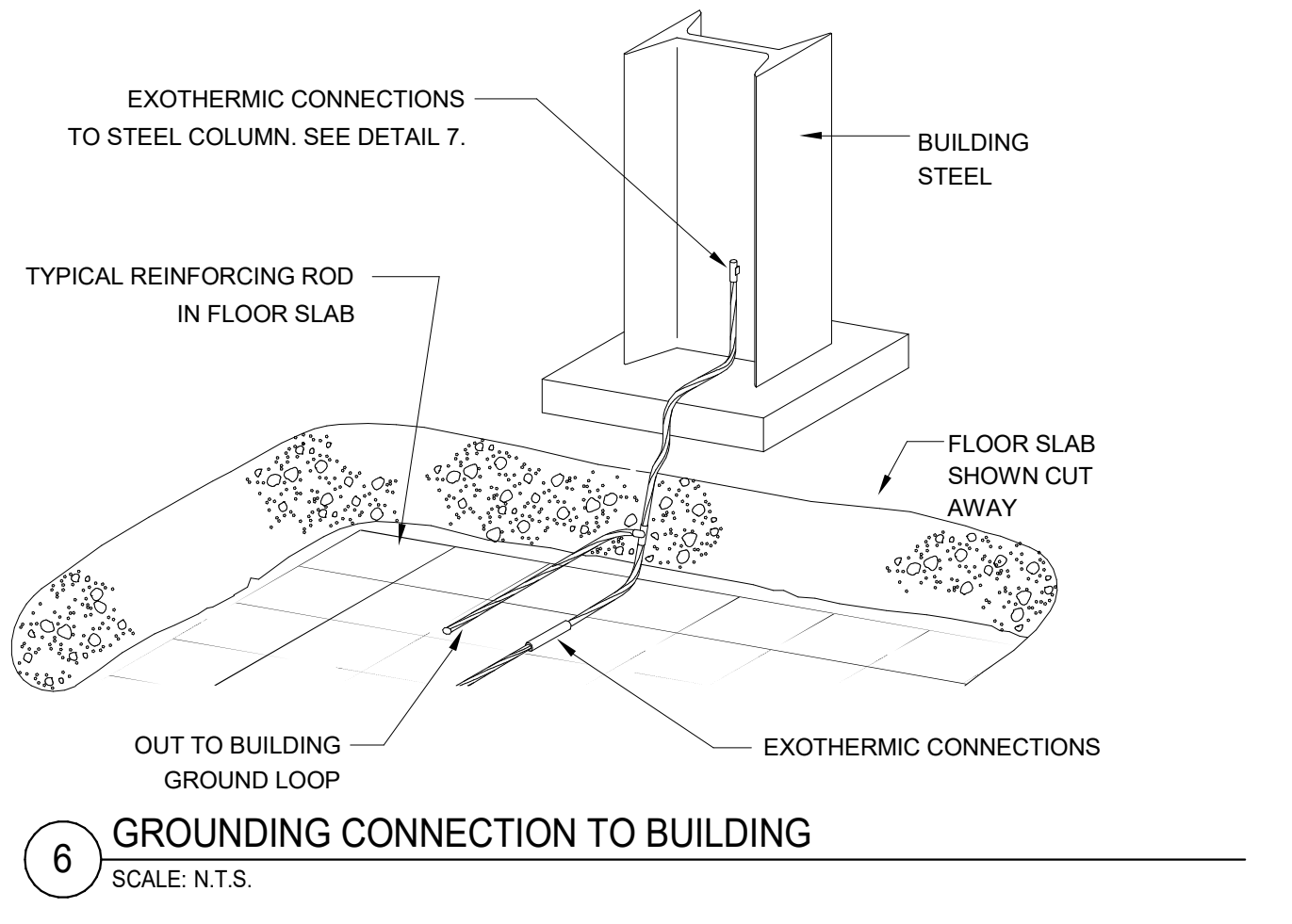
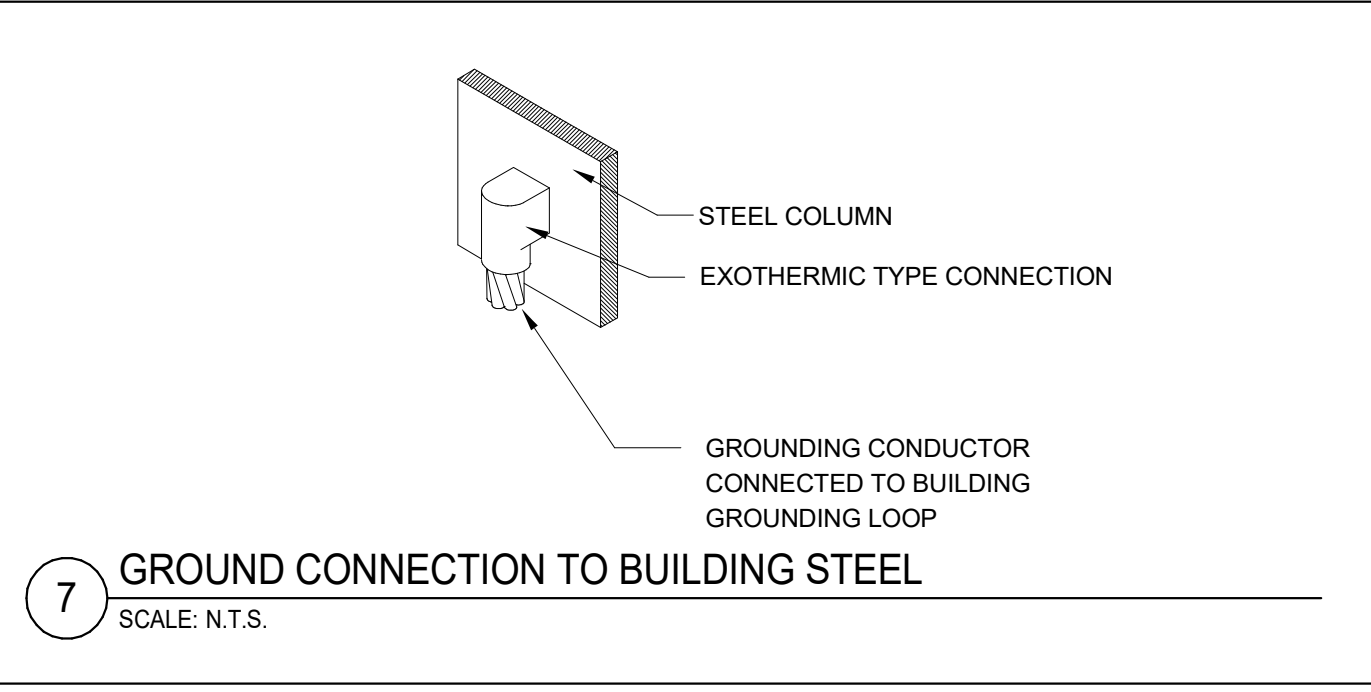
DRAWING NAME
GROUNDING DIAGRAM

FLOOR/SECTION PHASE DRAWING NO.

CD E3.2.1



1 GROUNDING SYSTEM DIAGRAM
SCALE: N.T.S.



11/11/2024 7:22:08 AM Autodesk Docs/20230523 - South Nevada Health District MLK BSL-3 LAB/20230523_E3.2 - CENTRAL.rvt



INTERIOR LIGHT FIXTURE NOTES:

1. INCLUDE FLANGE KIT FOR FIXTURES IN HARDLID CEILINGS. THE CONTRACTOR SHALL VERIFY CEILING TYPES WITH ARCHITECTURAL DRAWINGS PRIOR TO ORDERING.
2. ALL EMERGENCY LIGHTS SHALL BE CONNECTED TO A UL924 POWER PACK TO TURN ON THE FIXTURE TO FULL OUTPUT IN THE EVENT OF A POWER OUTTAGE.
3. CONFLICTS BETWEEN CATALOG NUMBERS AND FIXTURE DESCRIPTIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER, PRIOR TO BID TIME, FOR CLARIFICATION.
4. FIXTURES SHALL BE FURNISHED AND INSTALLED WITH ALL REQUIRED MOUNTING DEVICES, HARDWARE AND ACCESSORIES.
5. FINAL SELECTION OF FINISHES TO BE DETERMINED BY ARCHITECT AS PART OF SUBMITTAL PROCESS ON A ROOM BY ROOM BASIS.
6. REFER TO DRAWING FOR LENGTHS REQUIRED AND CONFIRM ALL MEASUREMENTS IN FIELD PRIOR TO ORDERING.
7. PROVIDE SINGLE OR DOUBLE FACED EXIT SIGNS AND CHEVRONS AS REQUIRED. COORDINATE CEILING/WALL MOUNTING REQUIREMENTS BASED ON FIELD CONDITIONS.

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMP/SOURCE			VOLTAGE	MOUNTING	NOTES
				NO.	TYPE	WATTS			
A1	2X4 RECESSED LED TROFFER (4000L)	MARK ARCHITECTURAL PINNACLE LIGHTING LEDALITE	WHSPR-2X4-80CRI-35K-4000LM-MIN1-MVOLT-SWC	-	28W 4000L 3500K	31W	UNV	RECESSED	
A1-A	2X4 RECESSED LED TROFFER (3500L)	LITHONIA PINNACLE LIGHTING LEDALITE	2GTL-4-40L-EZ1-LP835	-	34.1W 4000L 3500K	34.1W	UNV	RECESSED	
B1	RESTROOM VANITY (2200L)	INDESSA LIGHTING ACCESS LIGHTING AFX	438-2LED9-MVOLT-WHT-35K-24"	-	16W 2200L 3500K	16W	UNV	SURFACE	
B2	SURFACE MOUNTED LINEAR	LITHONIA LUX DYNAMICS DAYBRITE	CLX-5000L-SEF-FDL-MVOLT-EZ1-35K-80CRI-N100-WH-THCLX-WH	-	31.8W 5000L 3500K	31.8W	UNV	SURFACE	
B3	SURFACE MOUNTED 4' WRAP AROUND LED LIGHT FIXTURE	INDESSA LIGHTING ACCESS LIGHTING	444-4LED7-WHT-35K-48"	-	18W 2700L 3500K	18W	UNV	SURFACE	
C1	4" SQUARE RECESSED LED LIGHT FIXTURE (1000L)	GOTHAM USA BEVEL LED LIGHTOLIER	EVO4SQ-35/05-BR-LSS-277-EZ1-NLTER-TRBL	-	8.8W 1000L 3500K	8.8W	UNV	RECESSED	
C2	4" DIAMETER OPEN LED ROUND SHOWER DOWNLIGHT (1000L)	GOTHAM	EVO4SH-35-10-DFF-SOL-MVOLT-EZ1	-	15W 1000L 3500K	15W	UNV	RECESSED	
D1	4" CONTINUOUS RECESSED CLEAN ROOM LED LINEAR (750L)	KENALL LITHONIA ALKCO	CRS4-XFT-FL-SYM-750LF-35K8-DIM1-DV	-	6W/FT 750L/FT 3500K	6W/FT	UNV	RECESSED	
D1-A	4" CONTINUOUS RECESSED CLEAN ROOM LED LINEAR (1200L)	KENALL LITHONIA ALKCO	CRS4-XFT-FL-SYM-1200LF-35K8-DIM1-DV	-	10W/FT 1200L/FT 3500K	10W/FT	UNV	RECESSED	
D2	4" RECESSED LED LINEAR (800L)	MARK ARCHITECTURAL CORONET LEDALITE	SL4L-LOP-4FT-FLP-80CRI-35K-800LMF-MIN1-277	-	6W/FT 800L/FT 3500K	6W/FT	277	RECESSED	
D2-A	4" CONTINUOUS RECESSED LED LINEAR (800L)	MARK ARCHITECTURAL CORONET LEDALITE	SL4L-LOP-XFT-FLP-80CRI-35K-800LMF-MIN1-277	-	8W/FT 800L/FT 3500K	8W/FT	277	RECESSED	
D2-B	4" CONTINUOUS RECESSED LED LINEAR (1000L)	MARK ARCHITECTURAL CORONET LEDALITE	SL4L-LOP-XFT-FLP-80CRI-35K-1000LMF-MIN1-277	-	10W/FT 1000L/FT 3500K	10W/FT	277	RECESSED	
T1	4' SUSPENDED LINEAR (5000L)	LITHONIA LUX DYNAMIC DAYBRITE	CLX-5000L-SEF-FDL-MVOLT-EZ1-35K-80CRI-N100-WH *N100EMG FOR EMERGENCY FIXTURES	-	31.8W 5000L 3500K	31.8W	UNV	SUSPENDED	
X1/2	EDGE-LIT LED EXIT SIGN, SINGLE/DOUBLE FACES (CHEVRONS AS REUIQRED)	LITHONIA EVENLITE	LRP-1-RC-120/277 LRP-2-RMR-120/277	-	LED	4W	UNV	SUSPENDED	

EXTERIOR LIGHT FIXTURE NOTES:

1. ALL EMERGENCY LIGHTS SHALL BE CONNECT TO A UL924 POWER PACK TO TURN ON THE FIXTURE TO FULL OUTPUT IN THE EVENT OF A POWER OUTTAGE.
2. CONFLICTS BETWEEN CATALOG NUMBERS AND FIXTURE DESCRIPTIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER, PRIOR TO BID TIME, FOR CLARIFICATION.
3. FIXTURES AND/OR POLES SHALL BE FURNISHED AND INSTALLED WITH ALL REQUIRED MOUNTING DEVICES, HARDWARE AND ACCESSORIES.
4. FINAL SELECTION OF FINISHES TO BE DETERMINED BY ARCHITECT AS PART OF SUBMITTAL PROCESS.
5. ALL FIXTURES SHALL BE FURNISHED AND INSTALLED WITH PROPER DISTRIBUTION AND HOUSE SHIELDS TO MEET LOCAL ENERGY CODES AND STANDARDS.
6. ALL FIXTURES SHALL BE FURNISHED AND INSTALLED WITH PROPER CONTROL ACCESSORIES TO MEET LOCAL ENERGY CODES AND STANDARDS.
7. CONFIRM ALL CONCRETE BASE DIMENSIONS AND LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN.

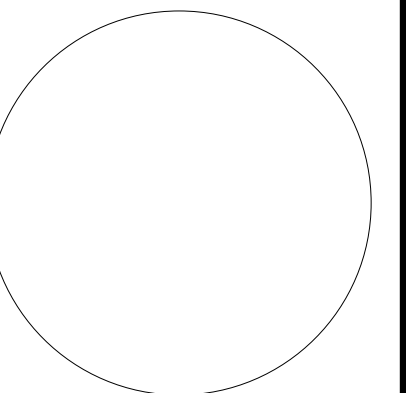
EXTERIOR LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMP/SOURCE			VOLTAGE	MOUNTING	NOTES
				NO.	TYPE	WATTS			
C3	6" RECESSED LED SQUARE DOWNLIGHT	ALPHABET USAI LIGHTOLIER	QD-SW-25LM-30K-80-HE75-UNV-DIM10-BK-BK	-	24W 2500L	24W	UNV	RECESSED	
S1-2	POLE-MOUNTED AREA LIGHTING FIXTURE (SINGLE HEAD) WITH 13" WIDTH. HEIGHT OF FIXTURE LENS TO BE 25FT A.F.F.	LITHONIA LUMINIS LIGHTING GARDCO	DSX1LED-P4-40K-T2M-277-RPA-PIRH-DBXLD POLE: RSS-25-5B-DM19AS-DBXLD	-	125W 14.532L 4000K	125W	277V	POLE	
S2-4	POLE-MOUNTED AREA LIGHTING FIXTURE (DOUBLE HEAD) WITH 13" WIDTH. HEIGHT OF FIXTURE LENS TO BE 25FT A.F.F.	LITHONIA LUMINIS LIGHTING GARDCO	DSX1LED-P4-40K-T3M-277-RPA-PIRH-DBXLD POLE: RSS-25-5B-DM28AS-DBXLD	-	125W (2) 14.497L 4000K	125W (2)	277V	POLE	
W1	WALL MOUNTED AREA LIGHTING FIXTURE (1550L)	LITHONIA LUMINIS LIGHTING GARDCO	WPX1 LED P1-40K-MVOLT-DBLXD	-	11W 1550L 4000K	11W	UNV	SURFACE	
W2	BUILDING WALL MOUNT UP/DOWN LIGHTING FIXTURE (2FT)	LIGMAN ANP LIGHTING	UGN-30051-2X25W-W30-XX-120/277-DIM	-	50W 1550L 4000K	36W	UNV	SURFACE	
W3	ROOF WALL MOUNT WALL PACK LIGHT FIXTURE	LITHONIA LUMINAIRE LED	TWX2-LED-P1-30K-MVOLT-DOBXD	-	23W 3250L 3000K	23W	UNV	SURFACE	
W4	BUILDING WALL MOUNT UP/DOWN LIGHT FIXTURE (4FT)	LIGMAN DESIGN PLAN	UGN-30091-72W-W30-XX-120/277-DIM	-	72W 5000L 3000K	72W	UNV	SURFACE	

KEY PLAN

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STEPH VARGAS

Electrical Engineer
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Electrical Model Lead
SEAN WIECZOREK



REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D			10.11.2024
C		ISSUED FOR OWNER'S REVIEW	09.26.2024
B		DESIGN DEVELOPMENT	05.24.2024

**SOUTHERN NEVADA
NEW BSL-3 LABORATORY
BUILDING**

700 South M.L.K. Blvd Las Vegas, NV 89106

DRAWN BY _____ SW DATE 10.11.2024

PROJECT NO. 20230523 SCALE 12" = 1'-0"

DRAWING NAME

LUMINAIRE SCHEDULES

FLOOR/SECTION PHASE DRAWING NO.

CD E4.1.1



Panel 1LB1, 1 of 2 sections, 10 KAIC poles. Table with columns: NOTES, CKT NO., A, P, DESCRIPTION, PHASE A LOAD, PHASE B LOAD, PHASE C LOAD, DESCRIPTION, P, A, CKT NO., NOTES. Includes load summary and options section.

Panel 1LA1, 1 of 2 sections, 10 KAIC poles. Table with columns: NOTES, CKT NO., A, P, DESCRIPTION, PHASE A LOAD, PHASE B LOAD, PHASE C LOAD, DESCRIPTION, P, A, CKT NO., NOTES. Includes load summary and options section.

Panel 1HA, 1 of 1 section, 42 KAIC poles. Table with columns: NOTES, CKT NO., A, P, DESCRIPTION, PHASE A LOAD, PHASE B LOAD, PHASE C LOAD, DESCRIPTION, P, A, CKT NO., NOTES. Includes load summary and options section.

Panel 1LB1, 2 of 2 sections, 10 KAIC poles. Table with columns: NOTES, CKT NO., A, P, DESCRIPTION, PHASE A LOAD, PHASE B LOAD, PHASE C LOAD, DESCRIPTION, P, A, CKT NO., NOTES. Includes load summary and options section.

Panel 1LA1, 2 of 2 sections, 10 KAIC poles. Table with columns: NOTES, CKT NO., A, P, DESCRIPTION, PHASE A LOAD, PHASE B LOAD, PHASE C LOAD, DESCRIPTION, P, A, CKT NO., NOTES. Includes load summary and options section.

Panel 1HA, 1 of 1 section, 24 KAIC poles. Table with columns: NOTES, CKT NO., A, P, DESCRIPTION, PHASE A LOAD, PHASE B LOAD, PHASE C LOAD, DESCRIPTION, P, A, CKT NO., NOTES. Includes load summary and options section.

KEY PLAN

PRINCIPAL DAVID KEITH RESEARCH PLANNER STEPH VARGAS Electrical Engineer KYLE KAVANAUGH, PE. Electrical Model Lead SEAN WIECZOREK

REVISIONS

Table with columns: NO., BY, DESCRIPTION, DATE. Includes revision history for design development and set.

SOUTHERN NEVADA NEW BSL-3 LABORATORY BUILDING

DRAWN BY: Author DATE: 10.11.2024

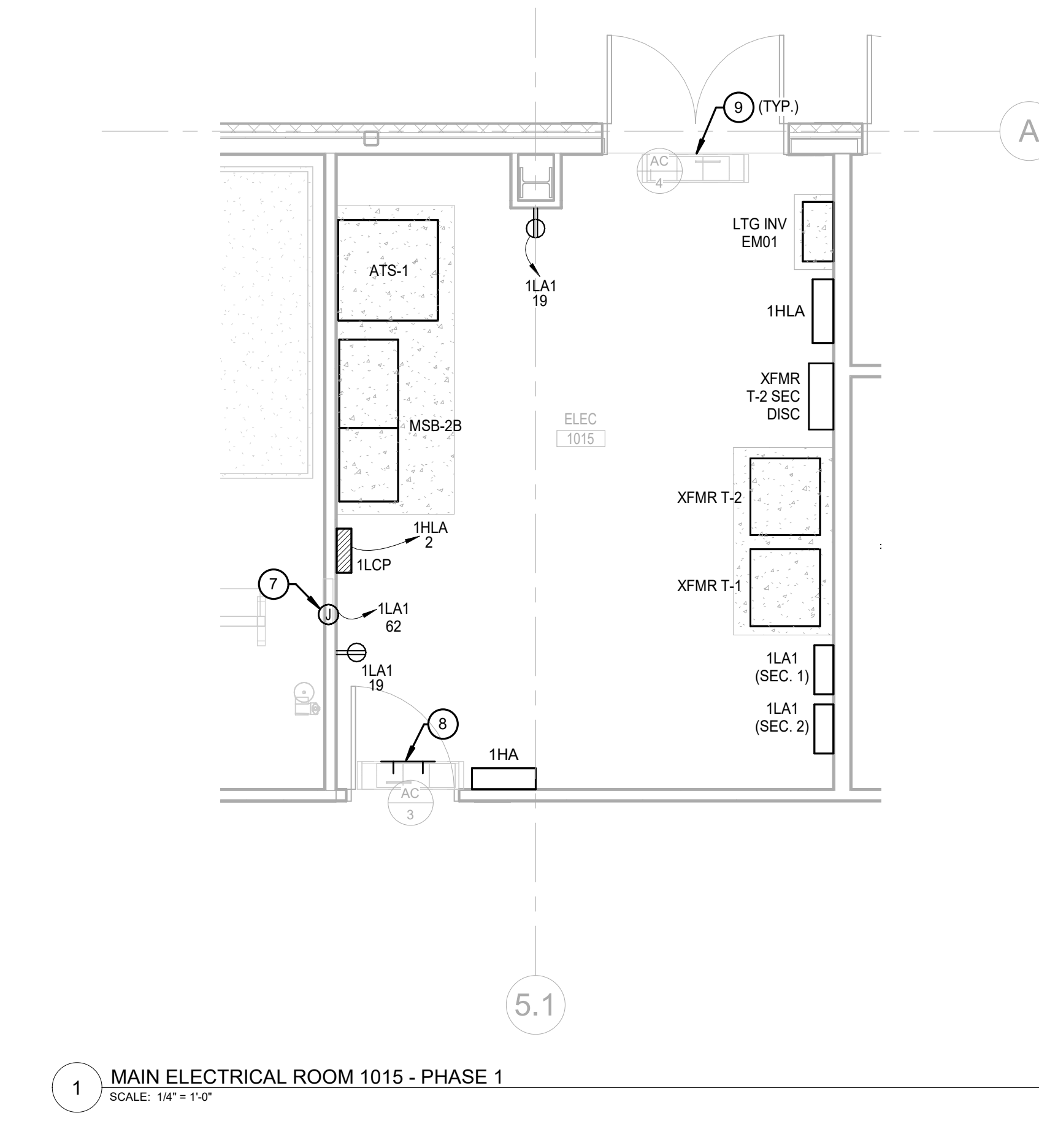
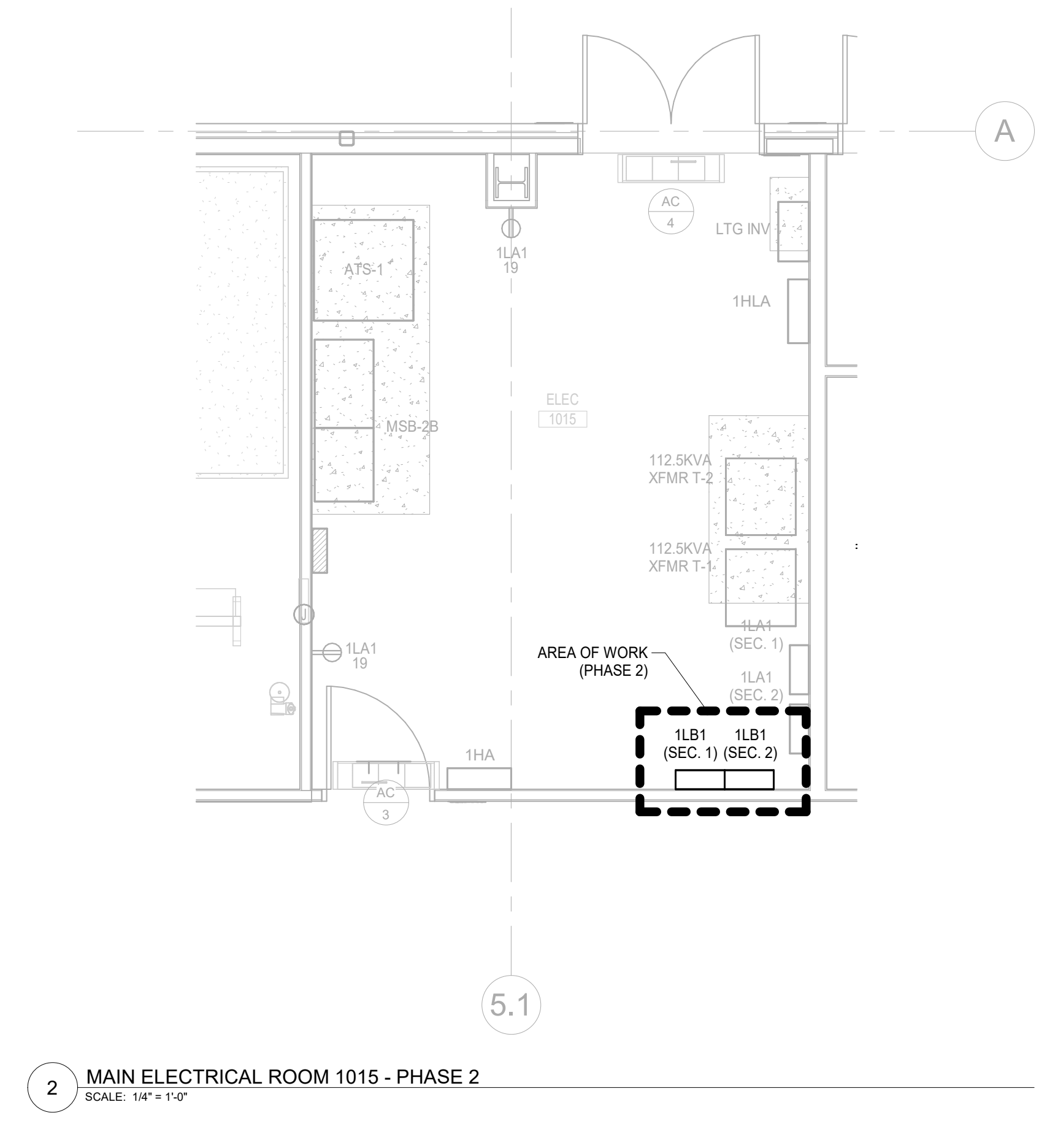
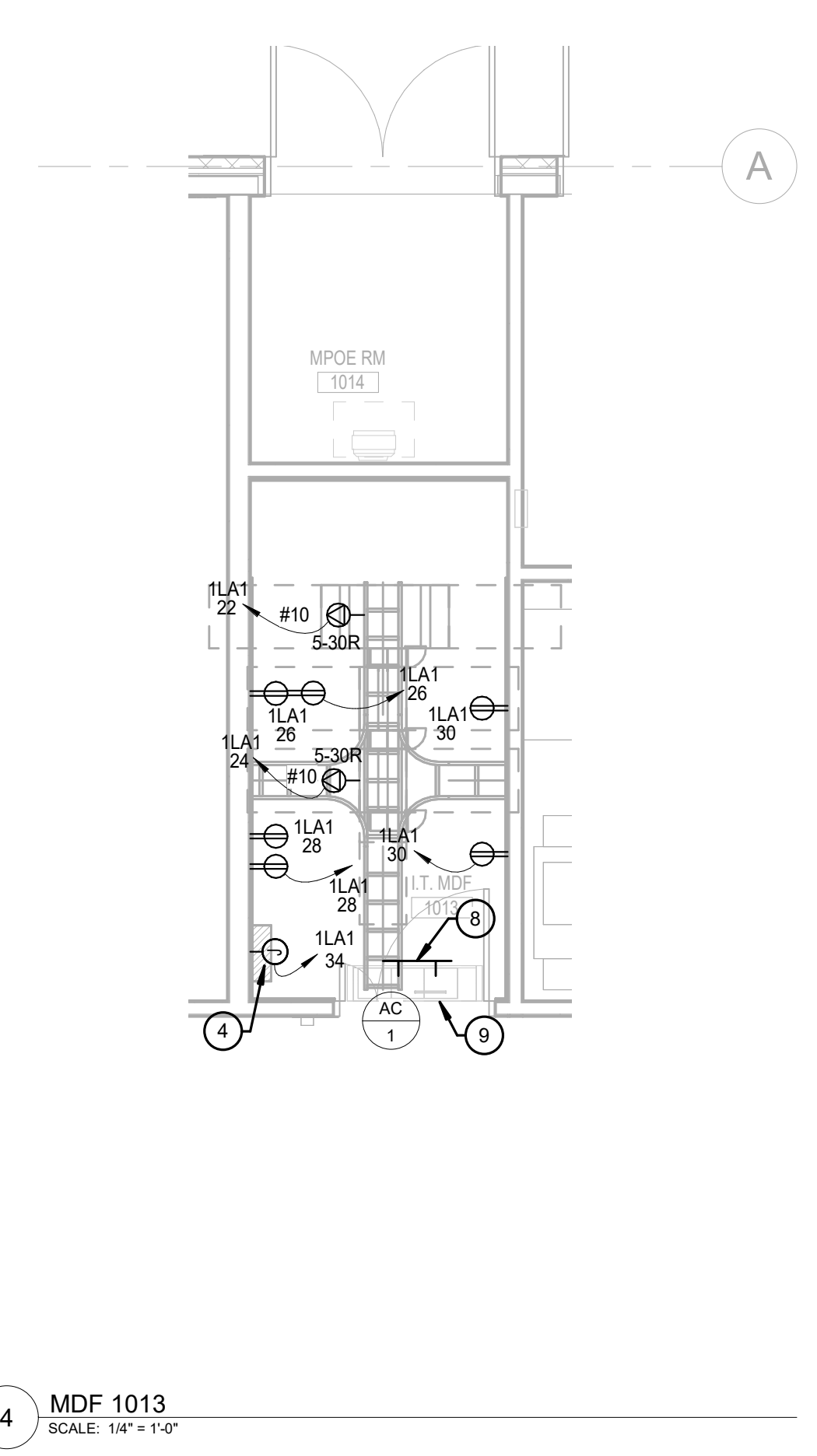
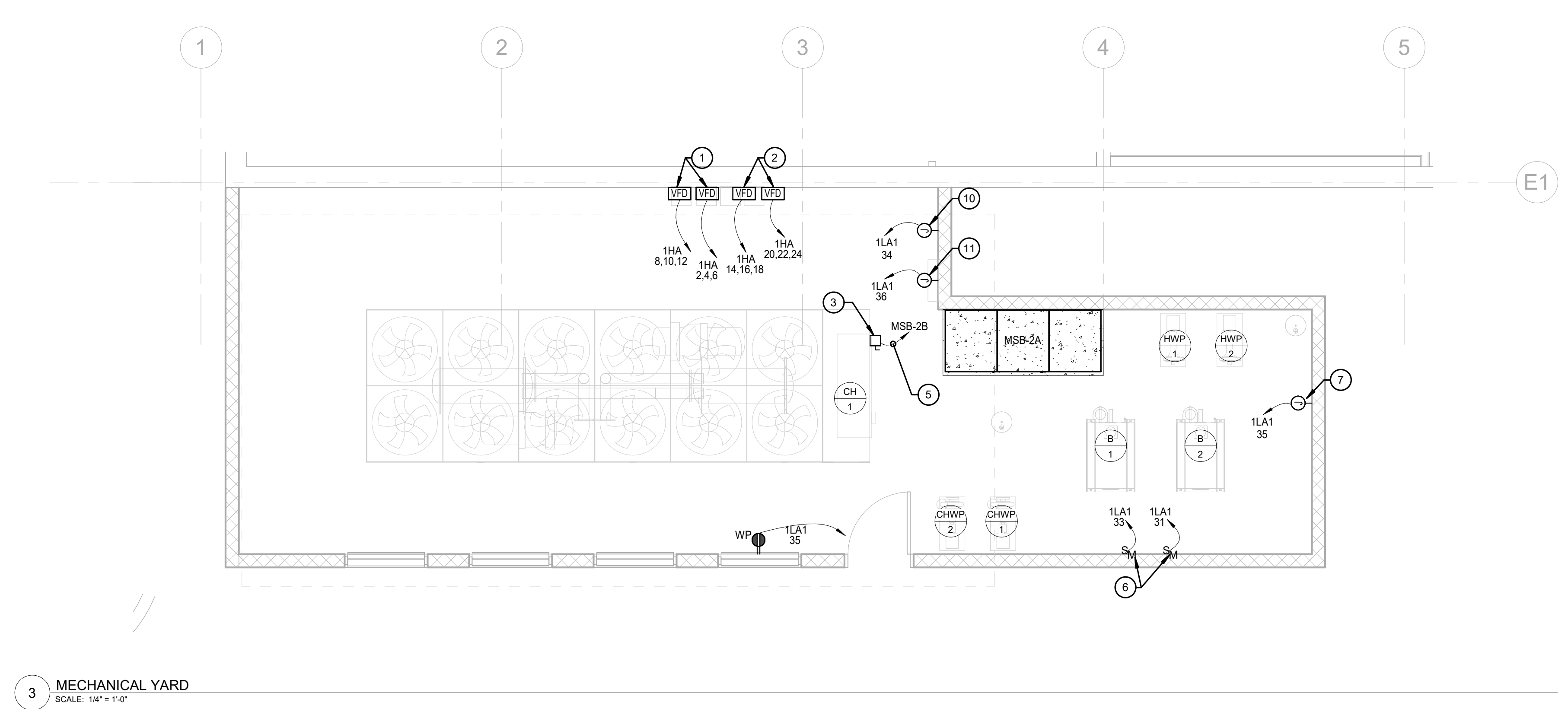
PROJECT NO: 20230523 SCALE: DRAWING NAME: PANELBOARD SCHEDULES - LEVEL 1

FLOOR/SECTION PHASE DRAWING NO. CD E4.2.1

11/11/2024 7:22:10 AM Autodesk Docs/20230523 - South Nevada Health District M&E 3 - LAB/20230523_E22_CENTRAL.rvt



- GENERAL NOTES:**
- ALL FLOOR CORING SHALL BE COORDINATED WITH THE ARCHITECTURAL PLANS AND IN THE FIELD.
 - VERIFY ROOM DIMENSIONS AND WALL TYPES WITH ARCHITECTURAL DRAWINGS.
 - THE SPACE EQUAL TO THE WIDTH AND DEPTH OF THE EQUIPMENT AND EXTENDING FROM THE FLOOR TO A HEIGHT OF 6FT ABOVE THE EQUIPMENT OR TO THE STRUCTURAL CEILING SHALL BE DEDICATED TO THE ELECTRICAL INSTALLATION. NO PIPING, DUCTS, LEAK PROTECTION APPARATUS OR OTHER FOREIGN EQUIPMENT SHALL BE LOCATED IN THIS SPACE PER NEC 110.26(E)(1)(A).
 - PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE PERMITTED IN THE DEDICATED ELECTRICAL SPACE PROVIDED PROTECTION IS INSTALLED TO AVOID DAMAGE TO THE ELECTRICAL EQUIPMENT FROM CONDENSATION, LEAKS, OR BREAKS IN SUCH SYSTEMS PER NEC 110.26(E)(1)(B).
 - PROVIDE 1/4" SCALED DRAWINGS OF ELECTRICAL ROOMS ALONG WITH ELECTRICAL EQUIPMENT SUBMITTALS. THE SCALED DRAWINGS SHALL INDICATE THE LOCATIONS OF ALL NEW AND EXISTING EQUIPMENT.
 - GROUNDING BUS BAR IN ELECTRICAL OR IT ROOMS TO BE MOUNTED ABOVE DOOR, UNLESS OTHERWISE INDICATED.
 - PROVIDE INSULATED BUSHINGS ON ALL SLEEVES. ALL UNUSED SLEEVES SHALL BE CAPPED.
 - FLOOR, WALL, OR TRAPEZE MOUNTED TRANSFORMERS SHALL BE STRUCTURALLY SOUND AND FREE FROM VIBRATION.
 - ALL JUNCTION OR PULL BOXES SHALL HAVE SCREW COVERS AND MUST BE MOUNTED TO PROVIDE CLEAR ACCESS TO CABLES INSIDE.
- KEY NOTES:**
- VFD FOR CHILLED WATER PUMP. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION. PROVIDE CONNECTION FOR CHILLED WATER PUMP. CHILLED WATER PUMP SHALL CONTAIN FUSIBLE DISCONNECTING MEANS. SIZE FUSES PER MANUFACTURER RECOMMENDATIONS.
 - VFD FOR HOT WATER PUMP. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION. PROVIDE CONNECTION FOR HOT WATER PUMP. HOT WATER UNIT SHALL CONTAIN FUSIBLE DISCONNECTING MEANS. SIZE FUSES PER MANUFACTURER RECOMMENDATIONS.
 - PROVIDE POWER CONNECTION AND DISCONNECT FOR CHILLER CONDENSING UNIT. VERIFY LOCATION. FINAL EQUIPMENT SELECTION AND ELECTRICAL REQUIREMENTS WITH VENDOR PRIOR TO ROUGH-IN.
 - PROVIDE 120V POWER FOR ACS PANEL. REFER TO TECHNOLOGY DRAWINGS FOR ADDITIONAL INFORMATION.
 - REFER TO SINGLE LINE DIAGRAM FOR FEEDER INFORMATION.
 - PROVIDE MOTOR RATED SWITCH FOR BOILER. REFER TO MECHANICAL DRAWINGS FOR LOCATION AND ADDITIONAL INFORMATION.
 - PROVIDE 120V POWER FOR TRAP PRIMER.
 - PROVIDE AND INSTALL 16" GROUNDING BUSBAR. REFER TO GROUNDING DIAGRAM AND SPECIFICATIONS FOR FURTHER INFORMATION.
 - AC UNIT(S) ARE POWERED FROM ASSOCIATED CONDENSING UNIT(S) LOCATED ON ROOF. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - PROVIDE 120V POWER FOR ESH UNIT.
 - PROVIDE 120V POWER FOR ENC-1 HEATER.



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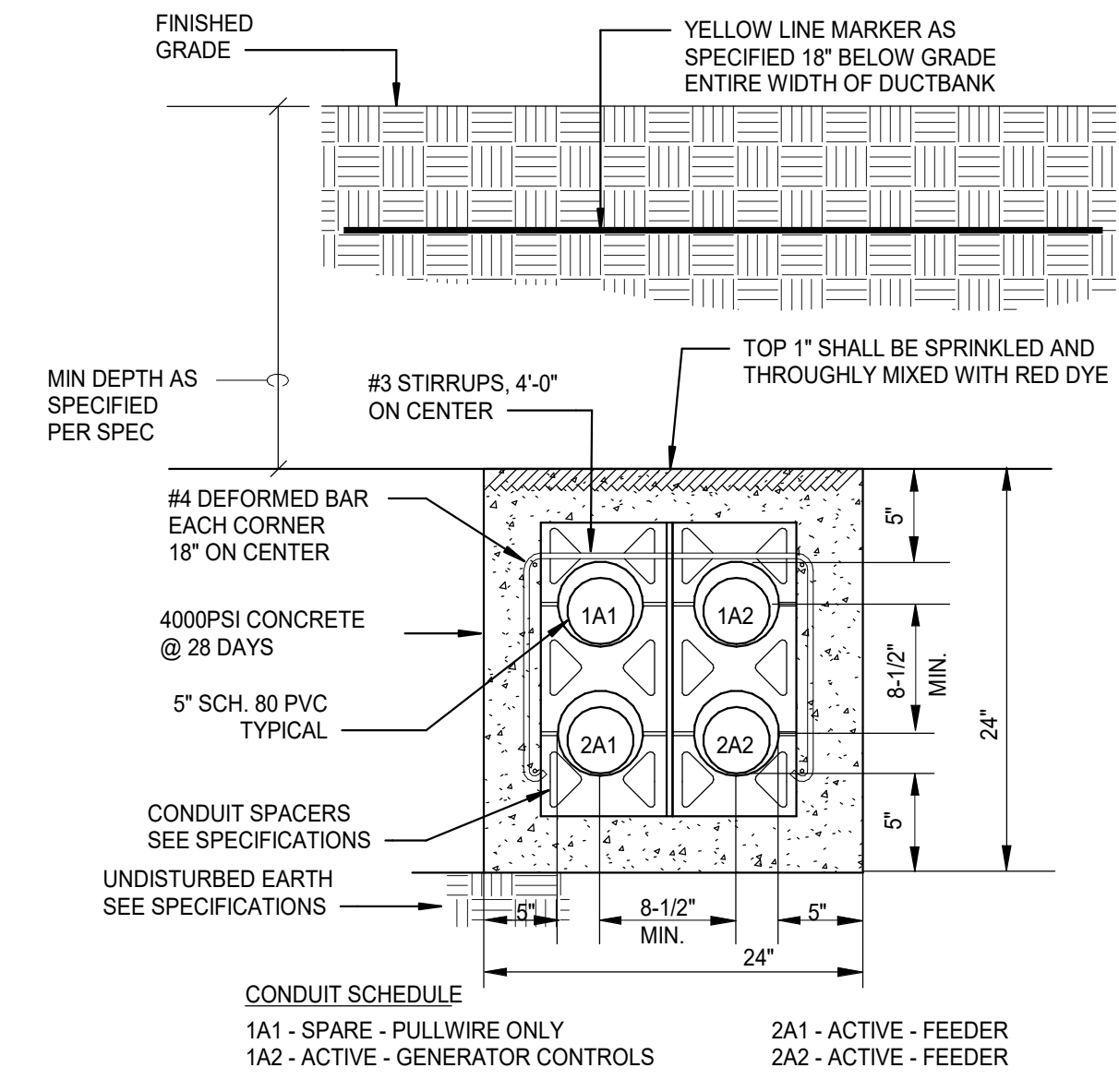
REVISIONS

NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D		ISSUED FOR OWNER'S REVIEW	10.11.2024
C		DESIGN DEVELOPMENT	09.26.2024
B		50% DD SET	05.24.2024
A			05.10.2024

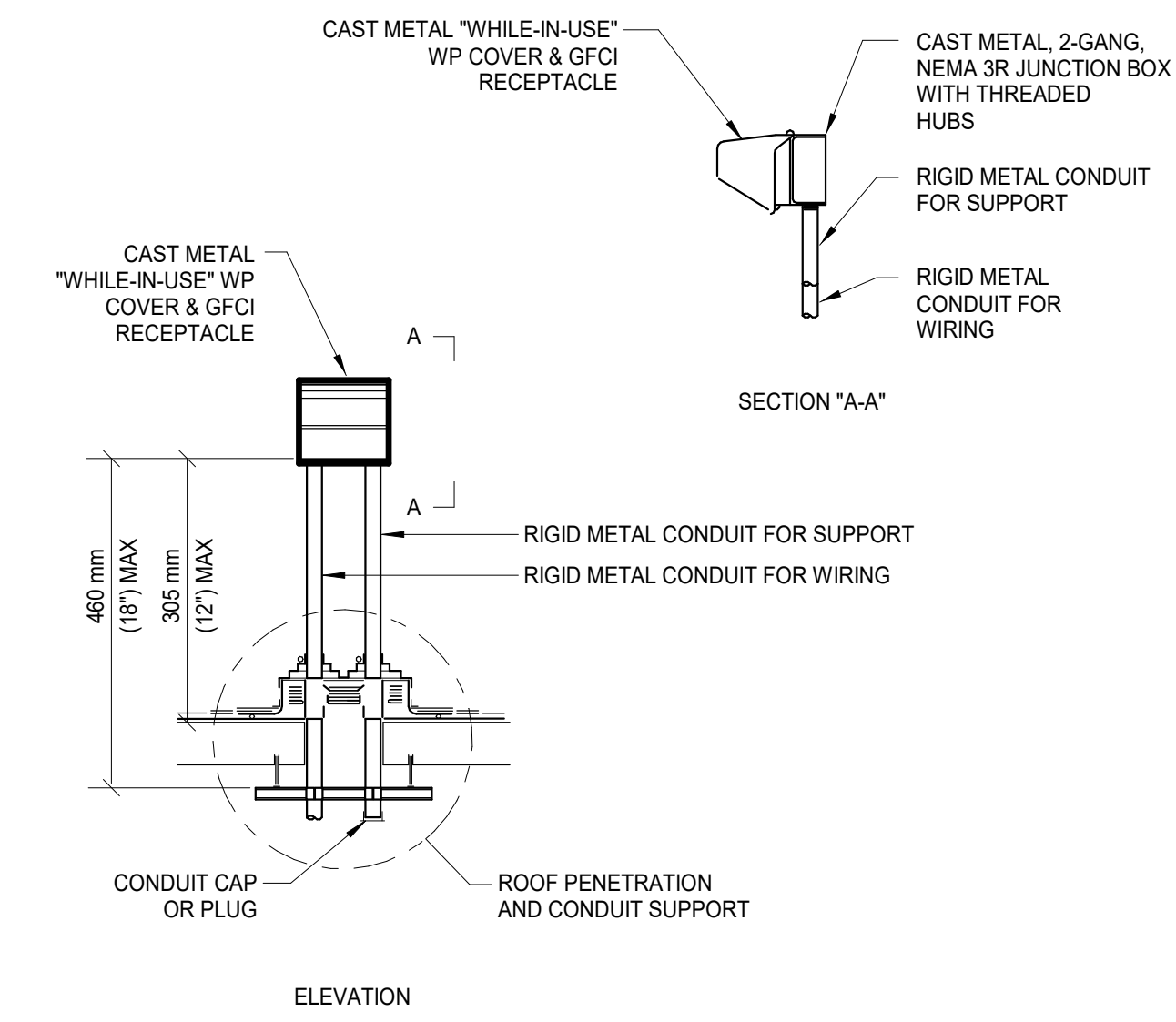
**SOUTHERN NEVADA
NEW BSL-3 LABORATORY
BUILDING**
700 South M.L.K. Blvd Las Vegas, NV 89106

DRAWN BY	SW	DATE	10.11.2024
PROJECT NO.	20230523	SCALE	As indicated
DRAWING NAME			
ENLARGED PLANS			
FLOOR/SECTION	PHASE	DRAWING NO.	
CD		EP5.1	

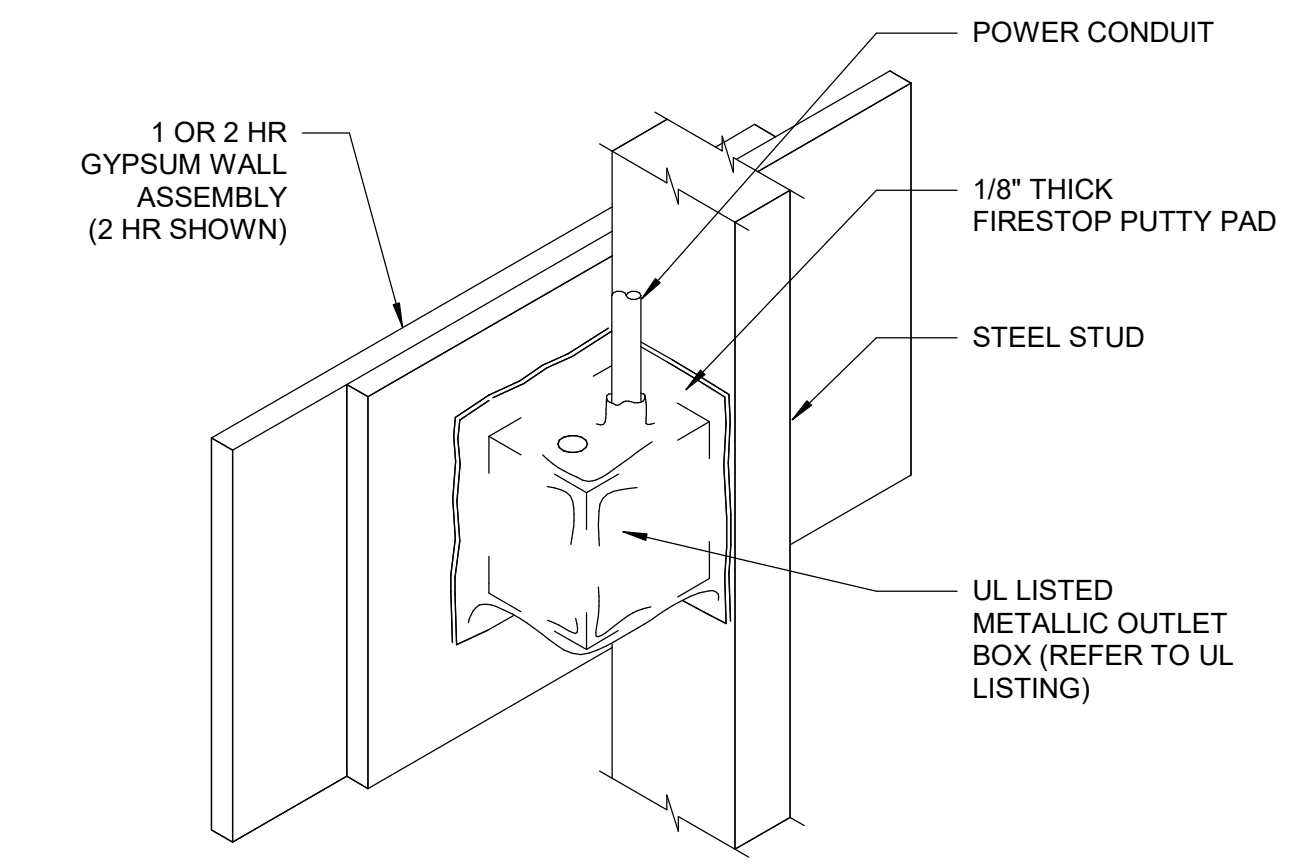
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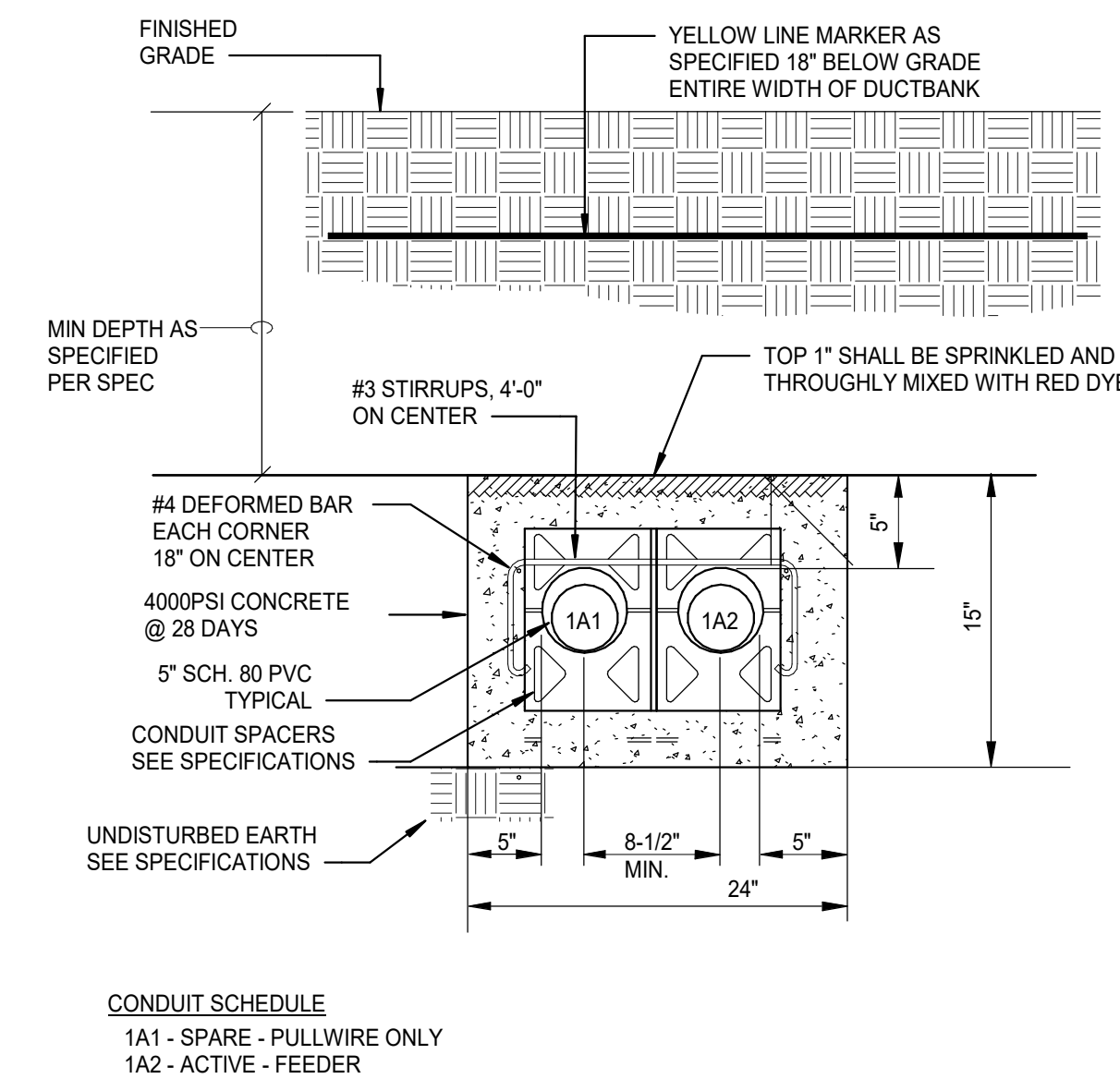
8 DUCTBANK DETAIL 2
SCALE: NTS



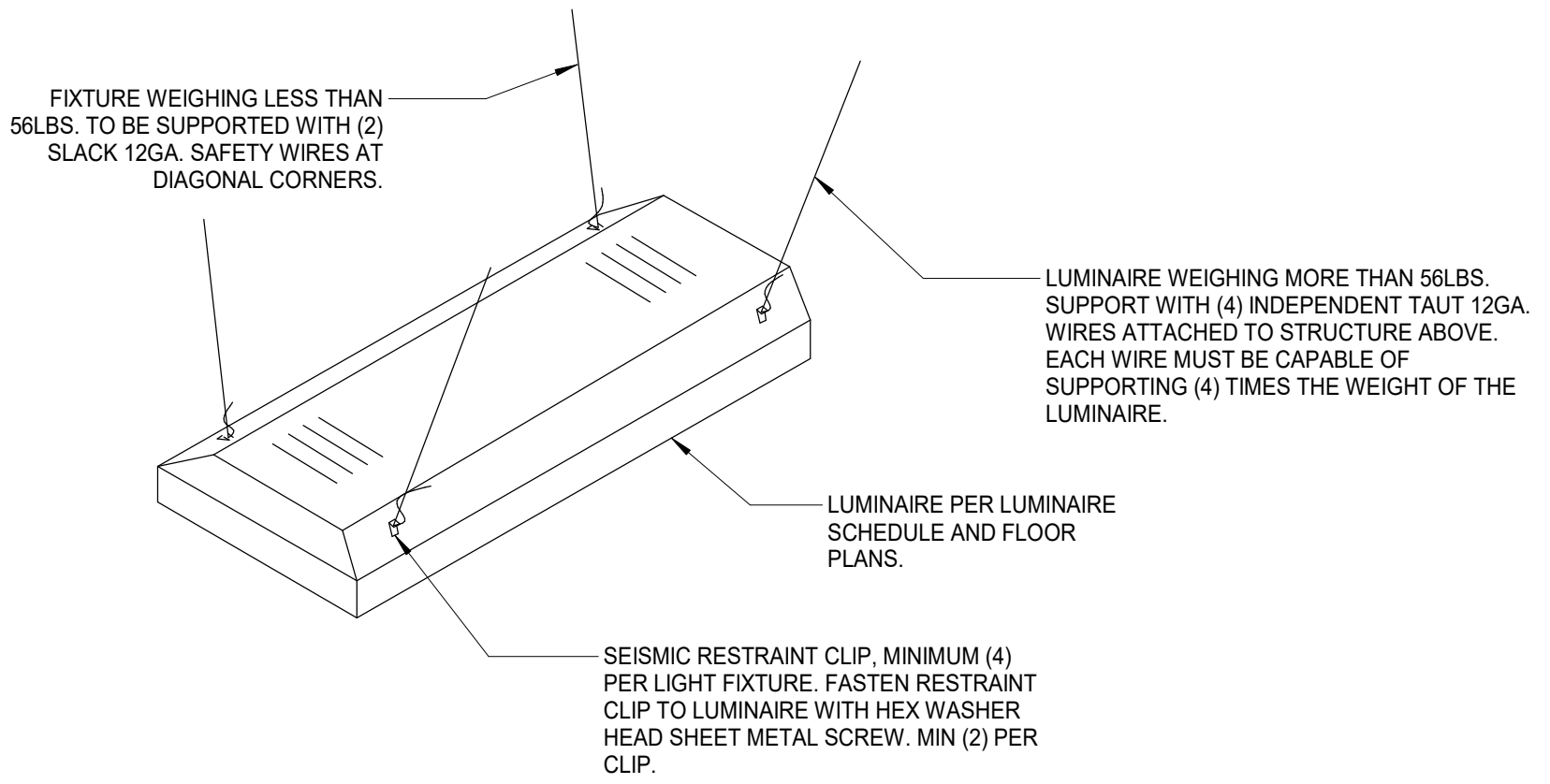
3 RECEPTACLE ROOF MOUNTING DETAIL
SCALE: NTS



2 JUNCTION BOX MOUNTING FOR RATED WALL
SCALE: NTS



7 DUCTBANK DETAIL 1
SCALE: NTS

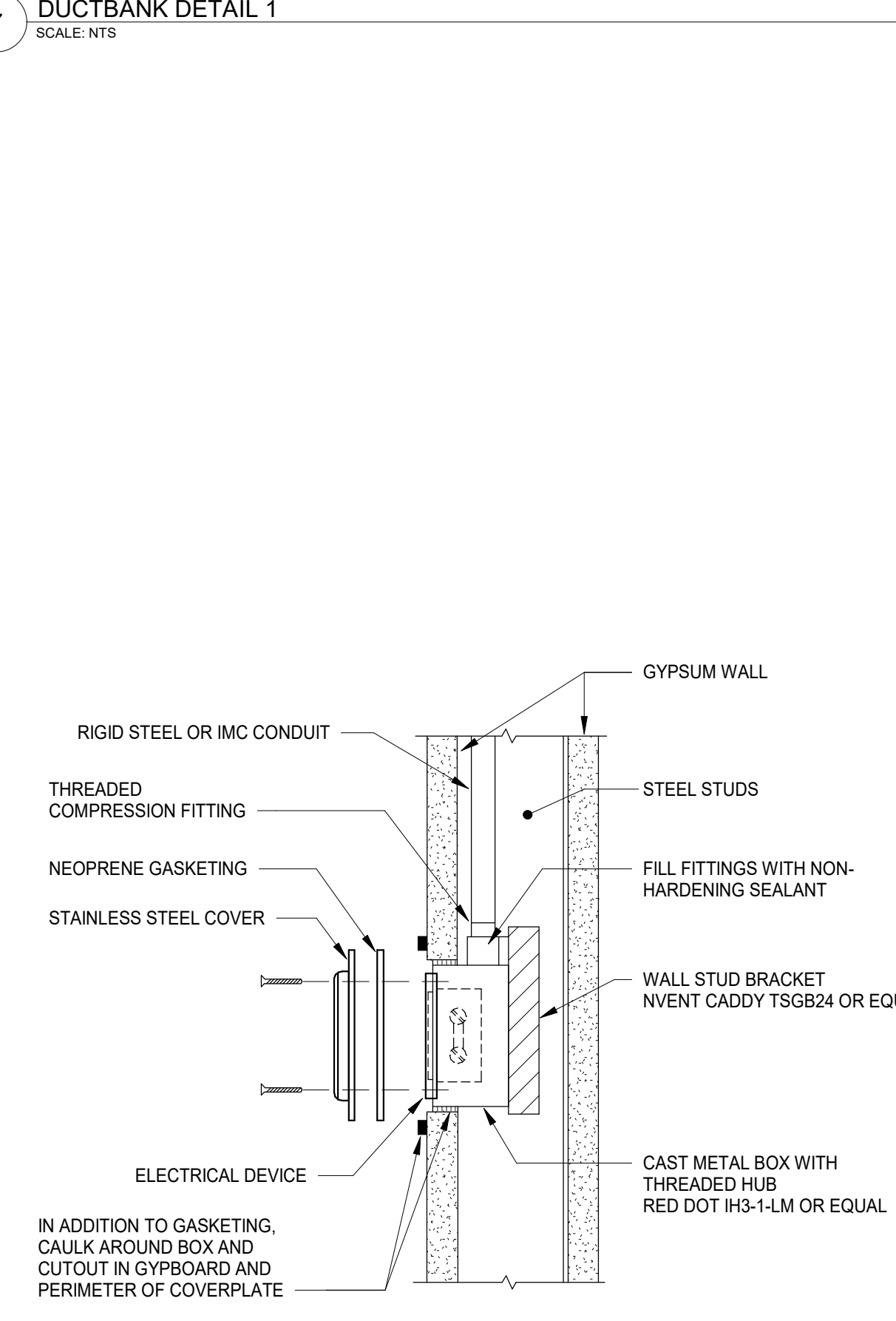
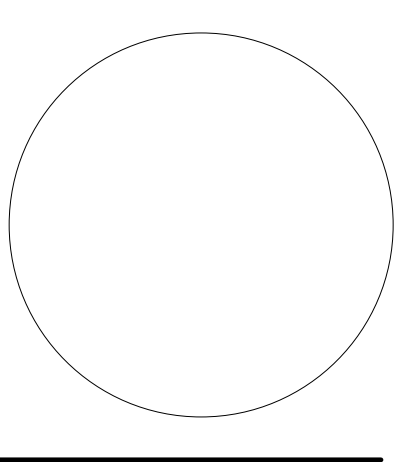


4 RECESSED LAY-IN GRID FIXTURE MOUNTING
SCALE: NTS

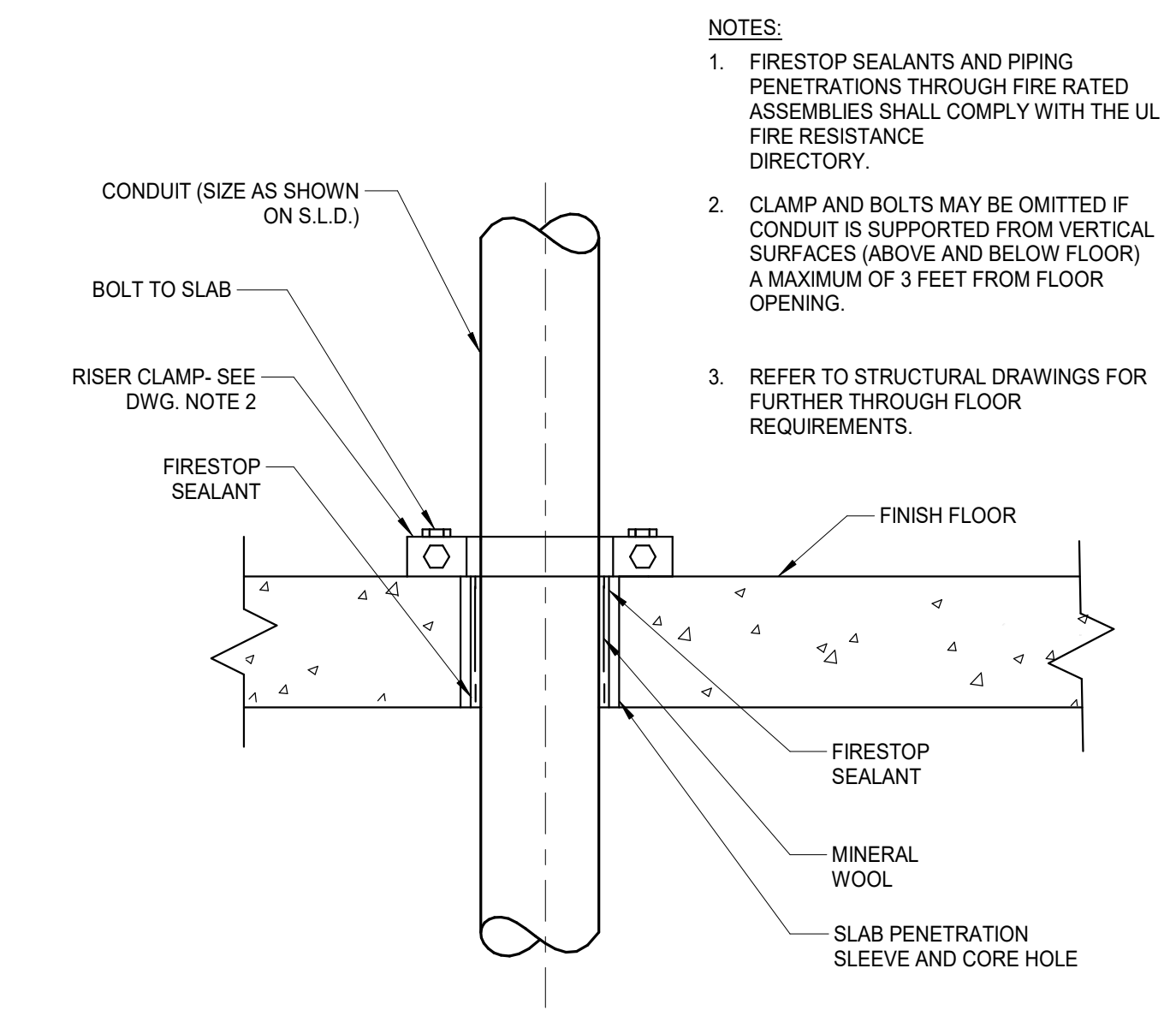
FIRE PROOFING IS NOT REQUIRED ON STEEL ELECTRICAL BOXES THAT DO NOT EXCEED 16 SQUARE INCHES IN AN AREA, PROVIDED THAT THE AREA OF SUCH OPENINGS DOES NOT EXCEED 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF A WALL AREA.

OUTLET BOXES ON OPPOSITE SIDES OF THE WALL SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24 INCHES. ELECTRICAL CONTRACTOR TO LAYOUT AND COORDINATE IN FIELD.

KEY PLAN



6 RECEPTACLE GASKETING FOR BSL-3
SCALE: NTS



5 THROUGH FLOOR CONDUIT
SCALE: NTS

System No. W-L-1054

Classified by Underwriters Laboratories, Inc. to UL 1479 and CANULC-5115

ANSI/UL1479 (ASTM E814)
F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr
L Rating at Ambient — Less Than 1 CFM/sq ft
L Rating at 400 F — Less Than 1 CFM/sq ft

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nominal 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.
 B. Gypsum Board — 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. for steel stud walls. Max diam of opening is 14-1/2 in. for wood stud walls.
 C. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.
 2. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. Pipe may be installed with continuous point contact. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
 A. Steel Pipe — Nom 30 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
 B. Iron Pipe — Nom 30 in. diam (or smaller) cast or ductile iron pipe.
 C. Conduit — Nom 4 in. diam (or smaller) steel electrical metallic tubing or 6 in. diam steel conduit.
 D. Copper Tubing — Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
 E. Copper Pipe — Nom 6 in. diam (or smaller) regular (or heavier) copper pipe.
 3. Fill, Void or Cavity Material — Sealant — Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.
 *HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant
 *Bearing the UL Classification Mark

HILTI Firestop Systems
 Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc.

1 CONDUIT THROUGH 1-2 HR. SMOKE FIRE WALL
SCALE: NTS

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NO.	BY	DESCRIPTION	DATE
E		ISSUED FOR GC BIDDING	11.08.2024
D		ISSUED FOR OWNER'S REVIEW	10.11.2024
C		DESIGN DEVELOPMENT	09.26.2024
B		50% DD SET	05.24.2024
A		50% DD SET	05.10.2024

**SOUTHERN NEVADA
NEW BSL-3 LABORATORY
BUILDING**
700 South M.L.K. Blvd Las Vegas, NV 89106

DRAWN BY SW DATE 10.11.2024
PROJECT NO. 20230523 SCALE 12" = 1'-0"
DRAWING NAME

ELECTRICAL STANDARD DETAILS
FLOOR/SECTION PHASE DRAWING NO.

CD E6.1



KEY PLAN

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REVISIONS

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E		ISSUED FOR GC BIDDING	11.08.2024
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DRAWN BY _____ Author DATE 10.11.2024

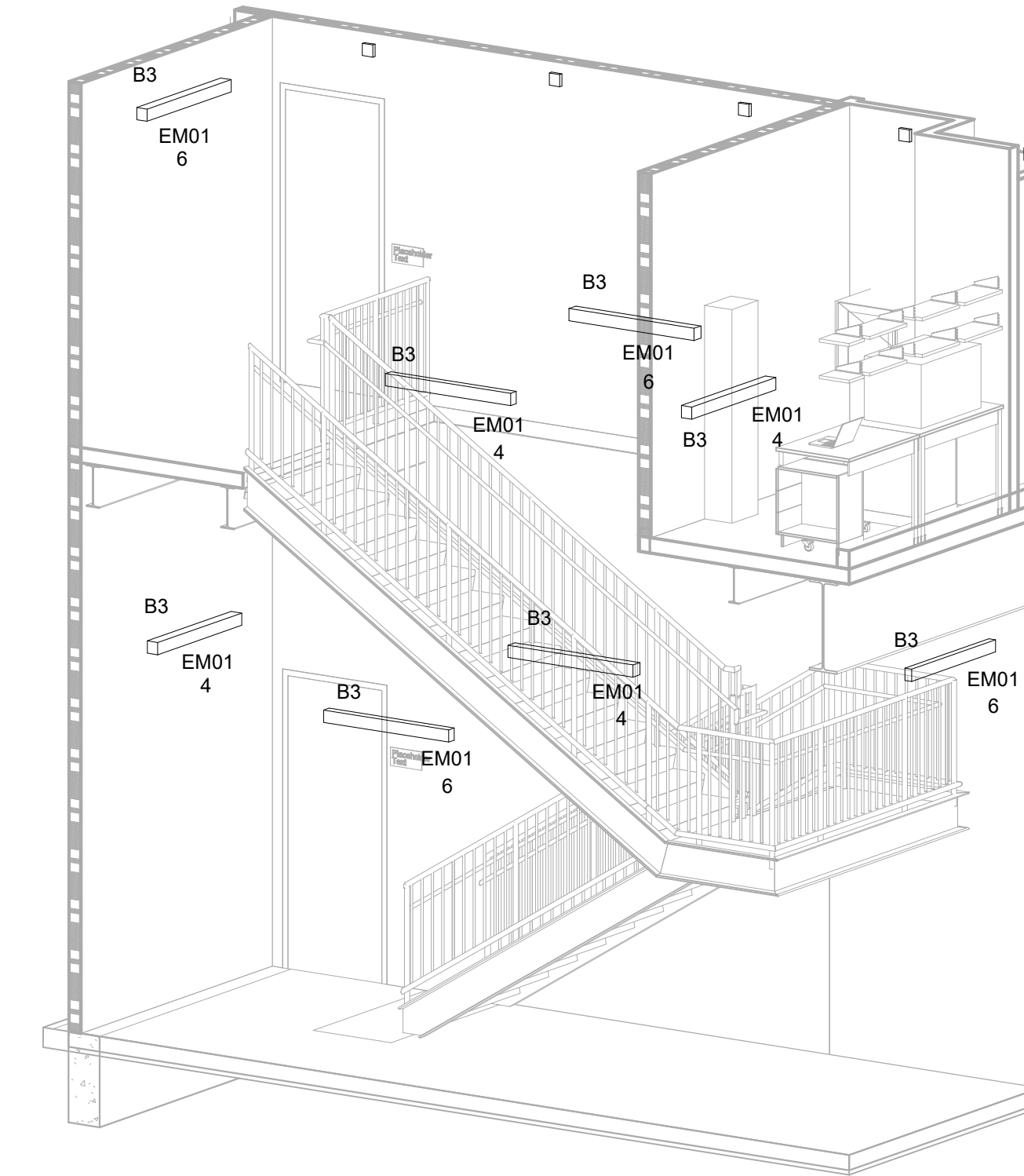
PROJECT NO. 20230523 SCALE _____

DRAWING NAME _____

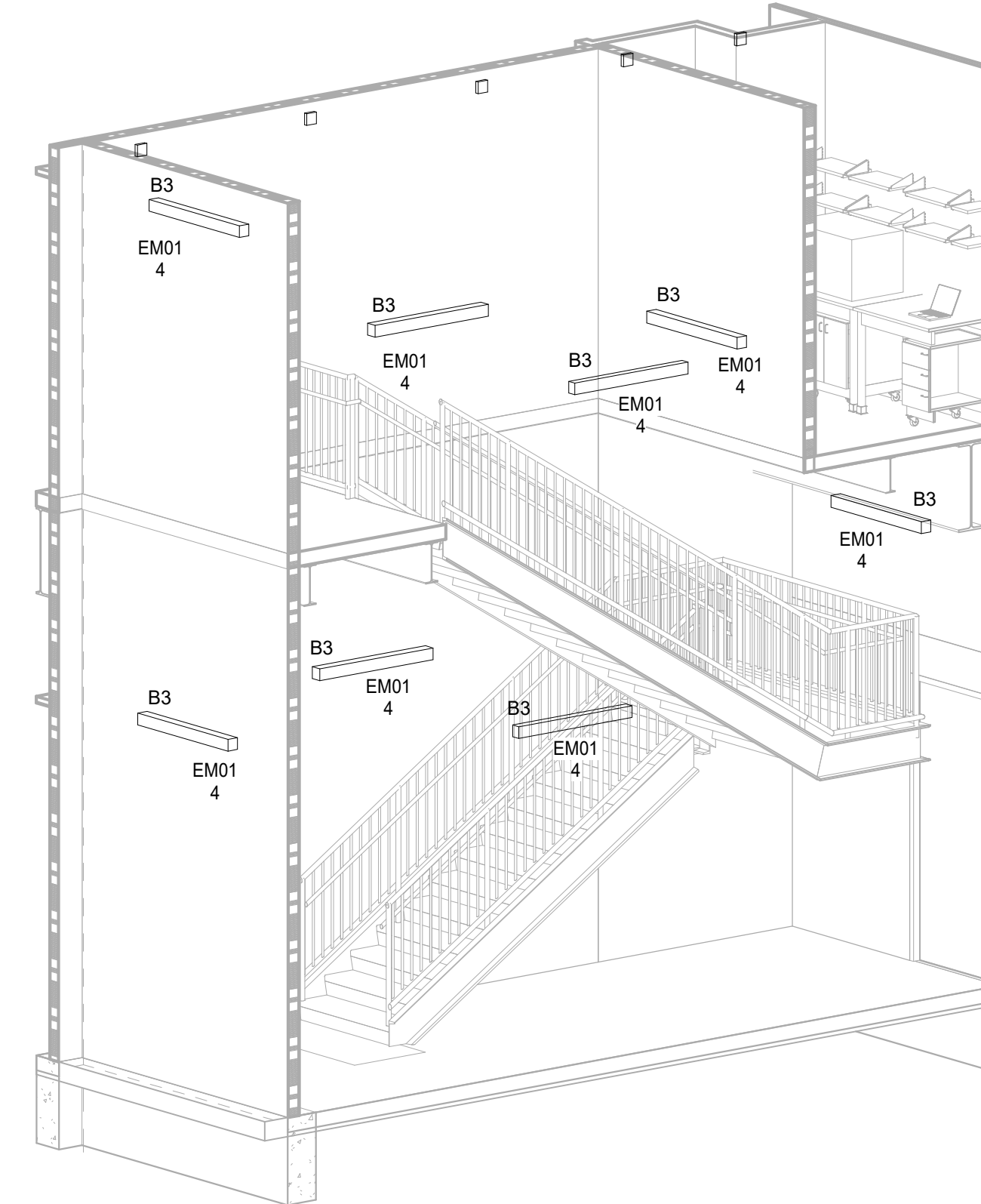
ELECTRICAL STANDARD DETAILS

FLOOR/SECTION PHASE _____ DRAWING NO. _____

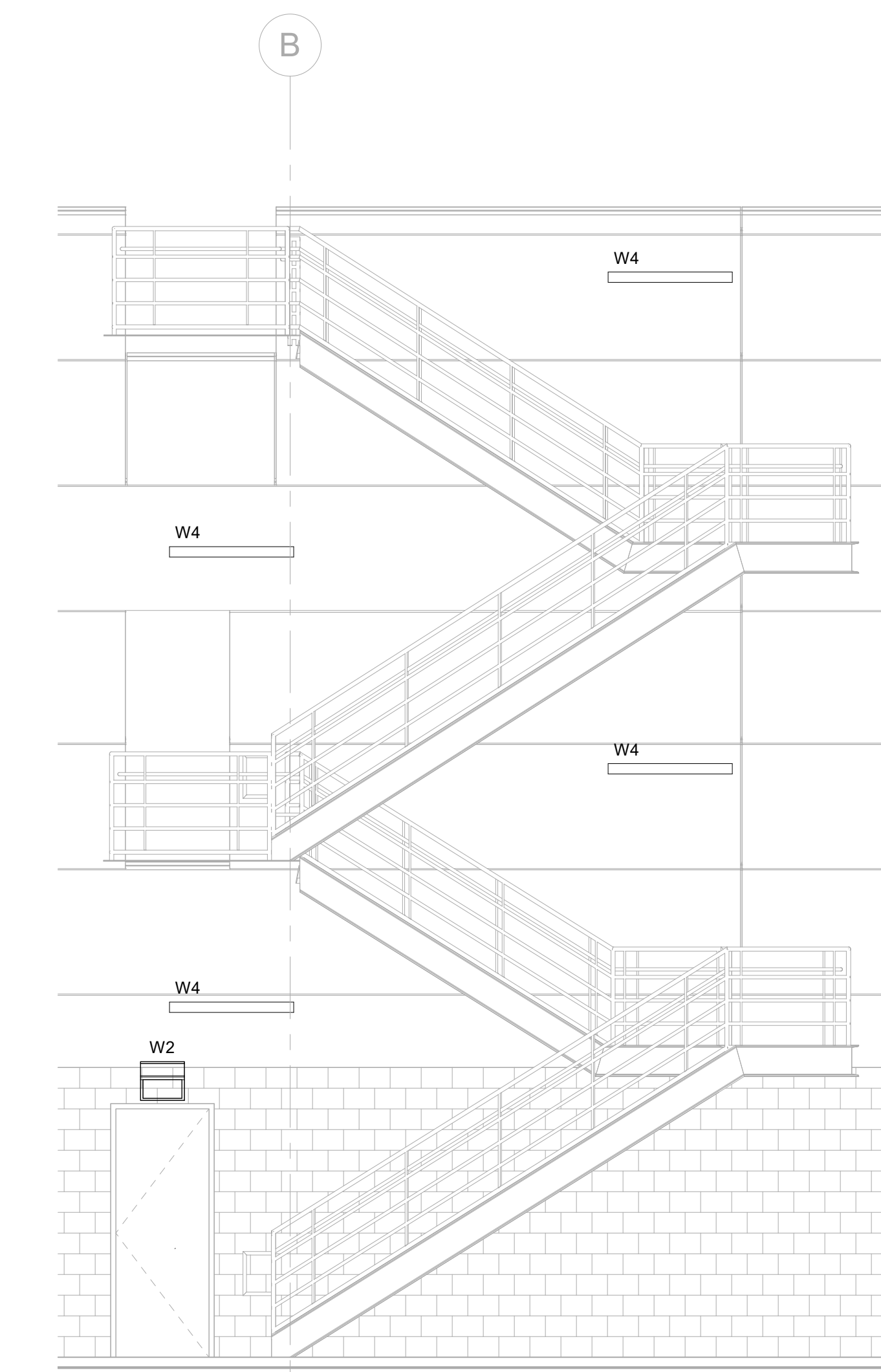
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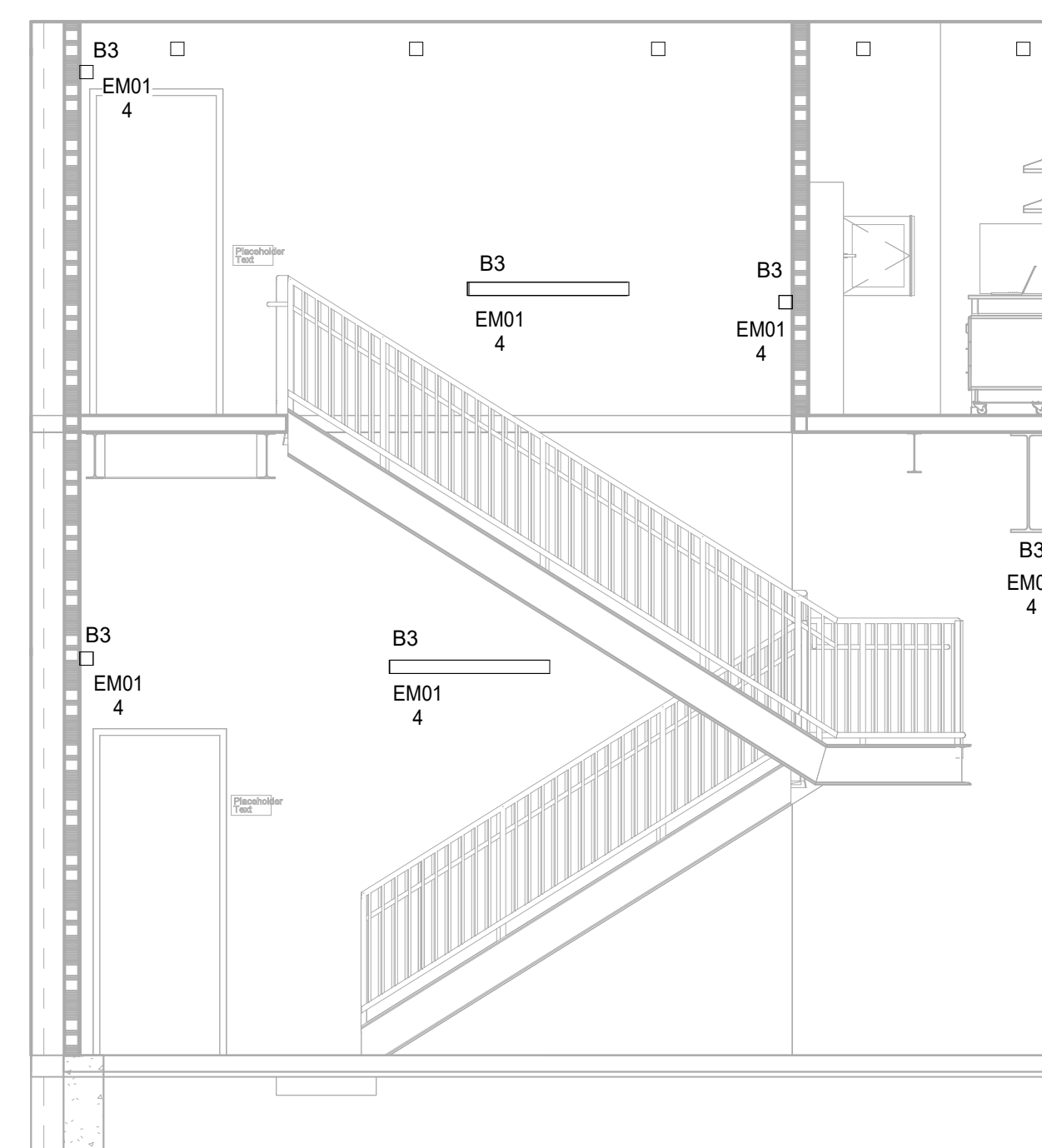
2 STAIRS ST-01 - NE VIEW
SCALE



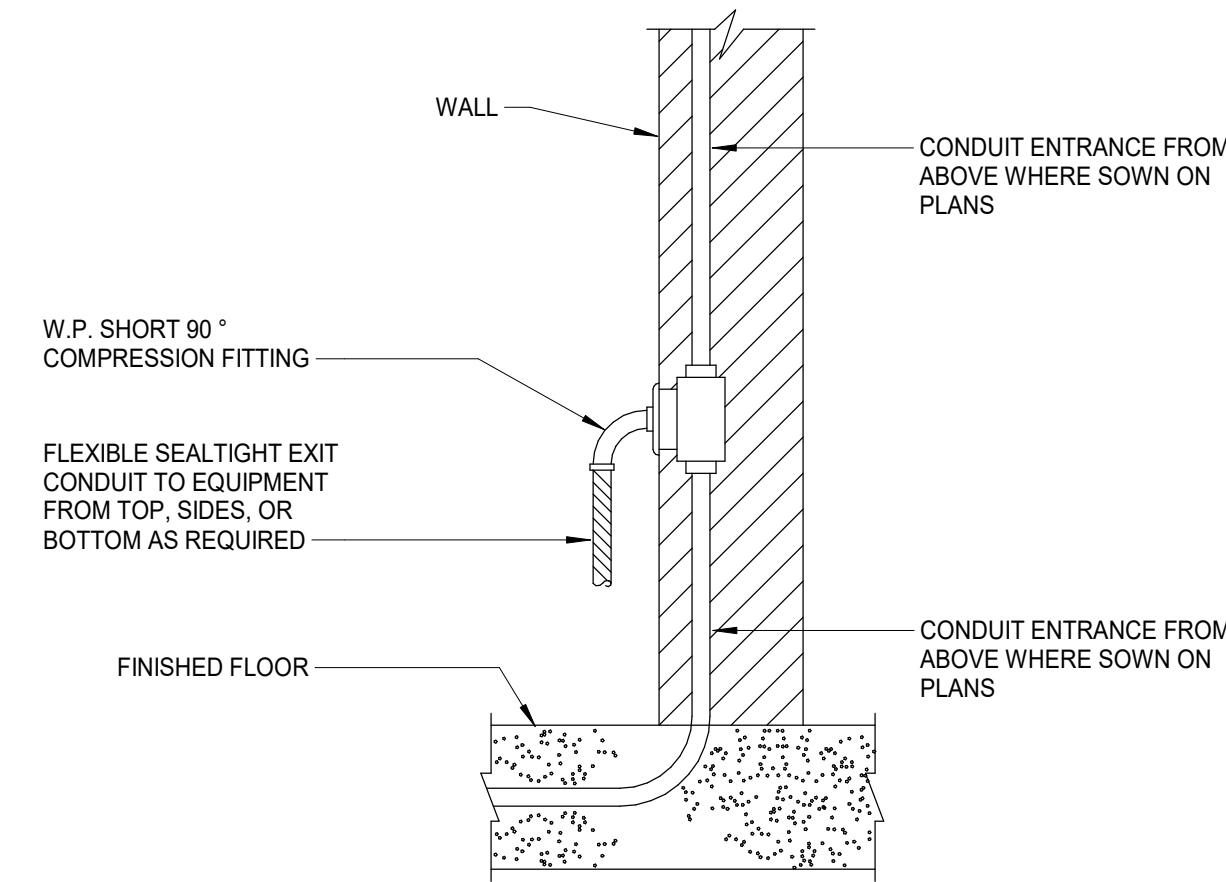
3 STAIRS ST-01 - SE VIEW
SCALE



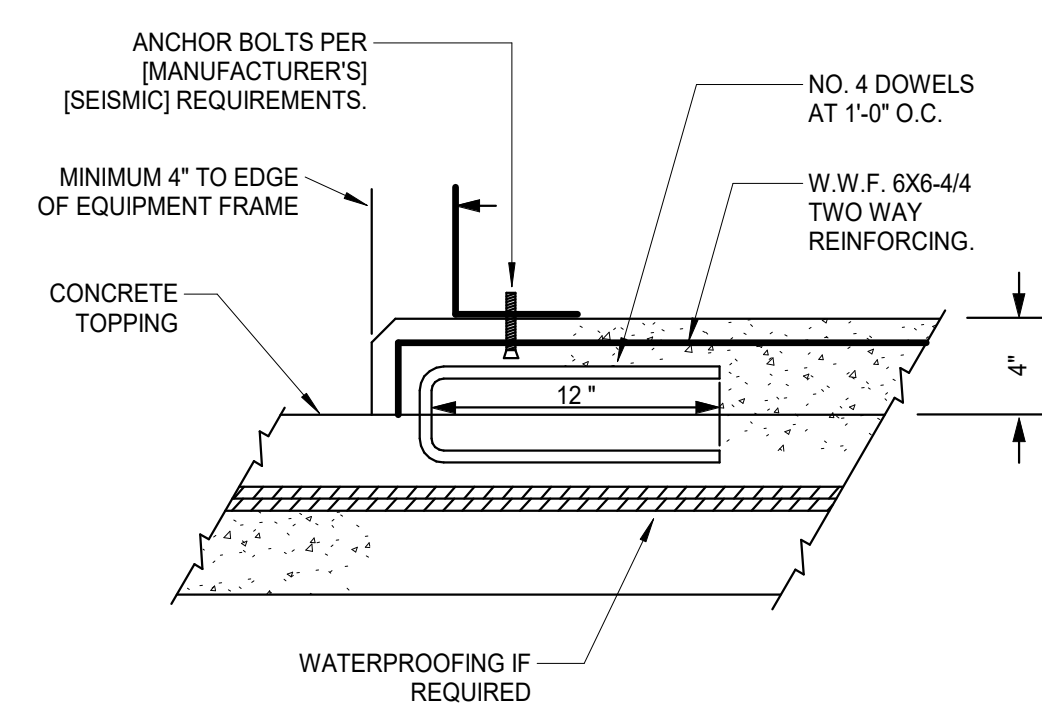
1 Elevation 1 - EXTERIOR STAIRWELL
SCALE: 1/4" = 1'-0"



4 STAIRS ST-01 - W VIEW
SCALE

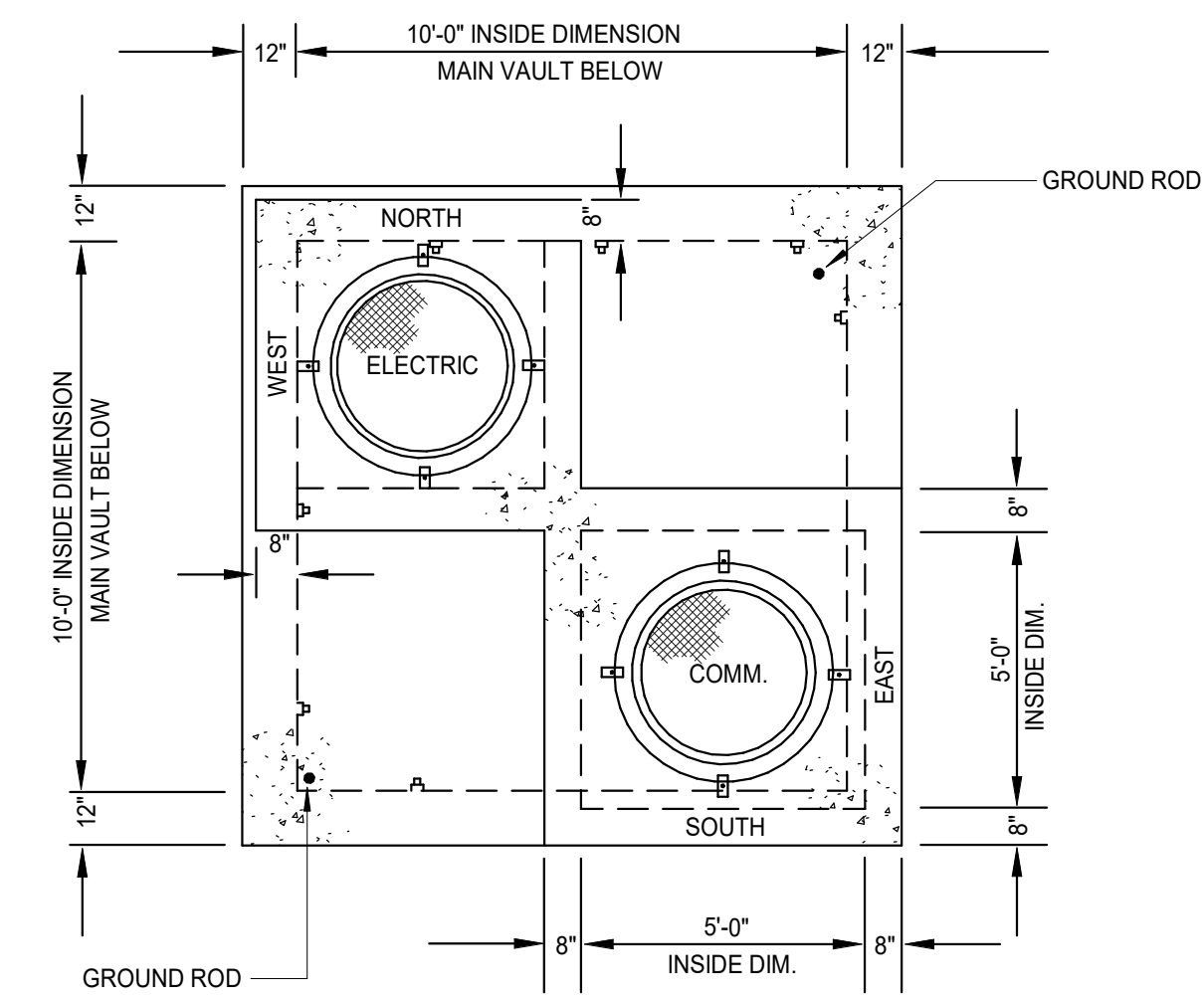


6 DIRECT CONNECTION TO EQUIPMENT
SCALE: NTS

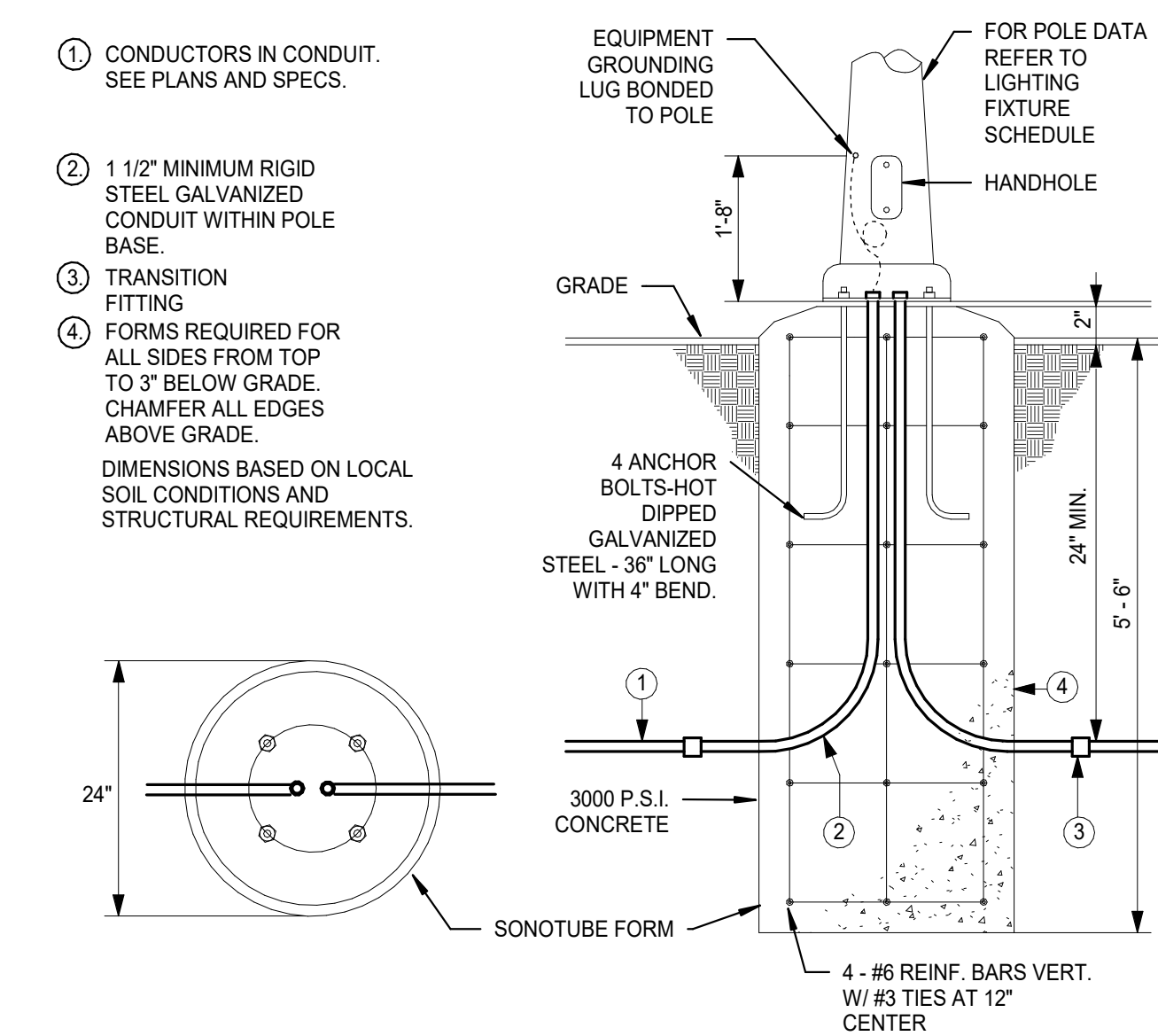


NOTES:
1. PAD DIMENSIONS AND ANCHOR BOLTS TO SUIT EQUIPMENT
2. THE PAD CONCRETE PSI SHALL MATCH THE CONTIGUOUS NEW SLAB CONCRETE PSI.

5 HOUSEKEEPING PAD
SCALE: NTS



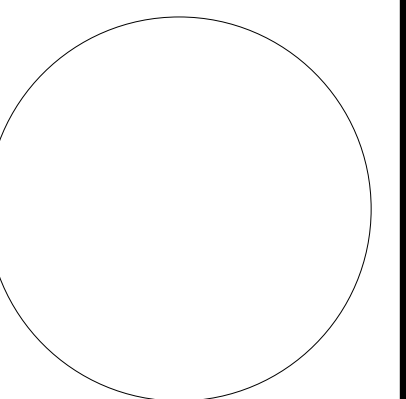
2 MANHOLE WITH HANDHOLE
SCALE: NTS



1 POLE BASE ROUND, POURED TOP AT GRADE
SCALE: NTS

KEY PLAN

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SEAN WIECZOREK



REVISIONS

NO.	BY	DESCRIPTION	DATE
1		ISSUED FOR GC BIDDING	11.08.2024
2			10.11.2024

**SOUTHERN NEVADA
NEW BSL-3 LABORATORY
BUILDING**

700 South M.L.K. Blvd Las Vegas, NV 89106

DRAWN BY Author DATE 10.11.2024

PROJECT NO. 20230523 SCALE

DRAWING NAME

ELECTRICAL STANDARD DETAILS

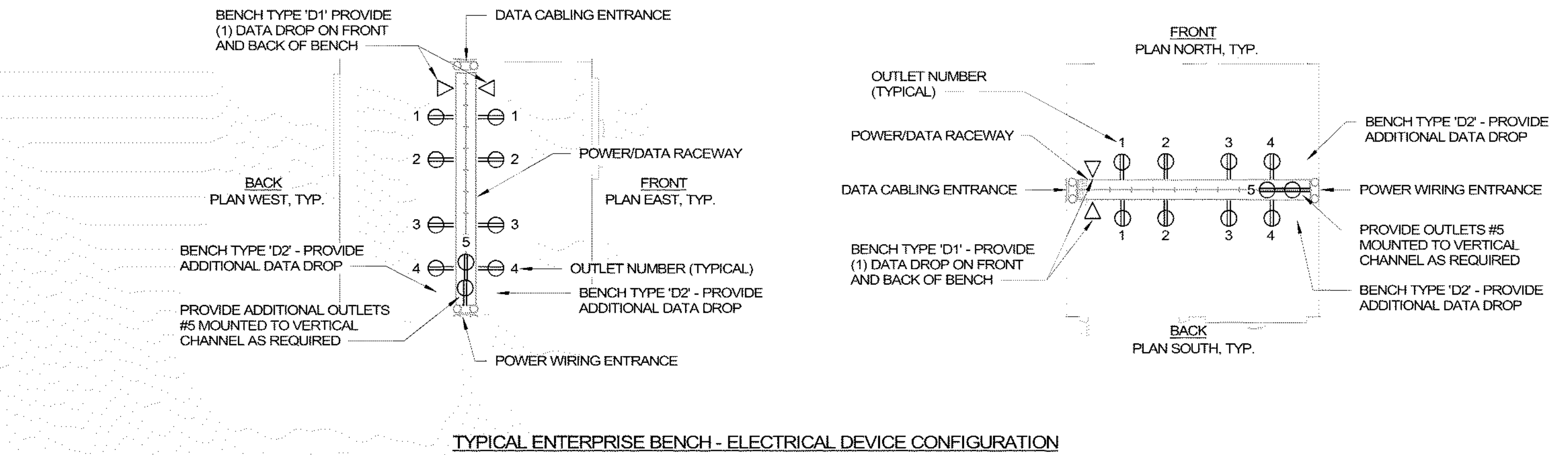
FLOOR/SECTION PHASE DRAWING NO.

CD E6.3



ENTERPRISE BENCH AND SCHEDULE NOTES:

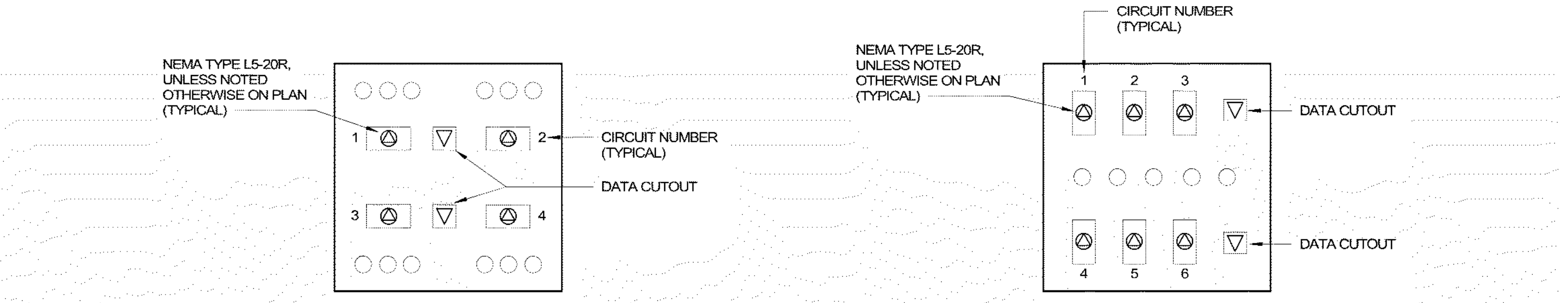
- REFER TO ARCHITECTURAL DRAWING F03B-AK 600-201 FOR CASEWORK TYPE MARKS AND DESCRIPTIONS.
- LAB ENTERPRISE BENCHES ARE PROVIDED PRE-WIRED BY CASEWORK MANUFACTURER. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MAKING FINAL CONNECTIONS FROM BENCH TO CEILING UTILITY PANEL.
- CASEWORK MANUFACTURER SHALL PROVIDE RECEPTACLES WITH THE FOLLOWING COLOR FINISH BASED ON THEIR UTILITY POWER SOURCE:
NORMAL - WHITE
STANDBY EMERGENCY - RED
UPS - YELLOW
- WHERE INDICATED ON SCHEDULE, CASEWORK MANUFACTURER TO PROVIDE DUPLEX RECEPTACLES MOUNTED ON VERTICAL POWER CHANNEL OF BENCH. WHERE BENCH TYPE MARK IS INDICATED WITH AN ASTERISK (*) ON PLAN, PROVIDE BELOW COUNTER RECEPTACLES ON VERTICAL DATA CHANNEL INSTEAD OF POWER CHANNEL.
- ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT LABELS FOR ENTERPRISE BENCH RECEPTACLES. REFER TO SPECIFICATION SECTION 260553 FOR CIRCUIT LABEL REQUIREMENTS.
- CASEWORK MANUFACTURER SHALL PROVIDE CUTOUTS FOR DATA OUTLETS AT EACH BENCH. TELECOMMUNICATIONS CONTRACTOR SHALL PROVIDE ALL DATA OUTLETS AND CAT6A CABLING IN ENTERPRISE BENCH. ELECTRICAL CONTRACTOR SHALL PROVIDE COVER PLATES FOR ANY UNUSED OUTLETS.



TYPICAL ENTERPRISE BENCH - ELECTRICAL DEVICE CONFIGURATION

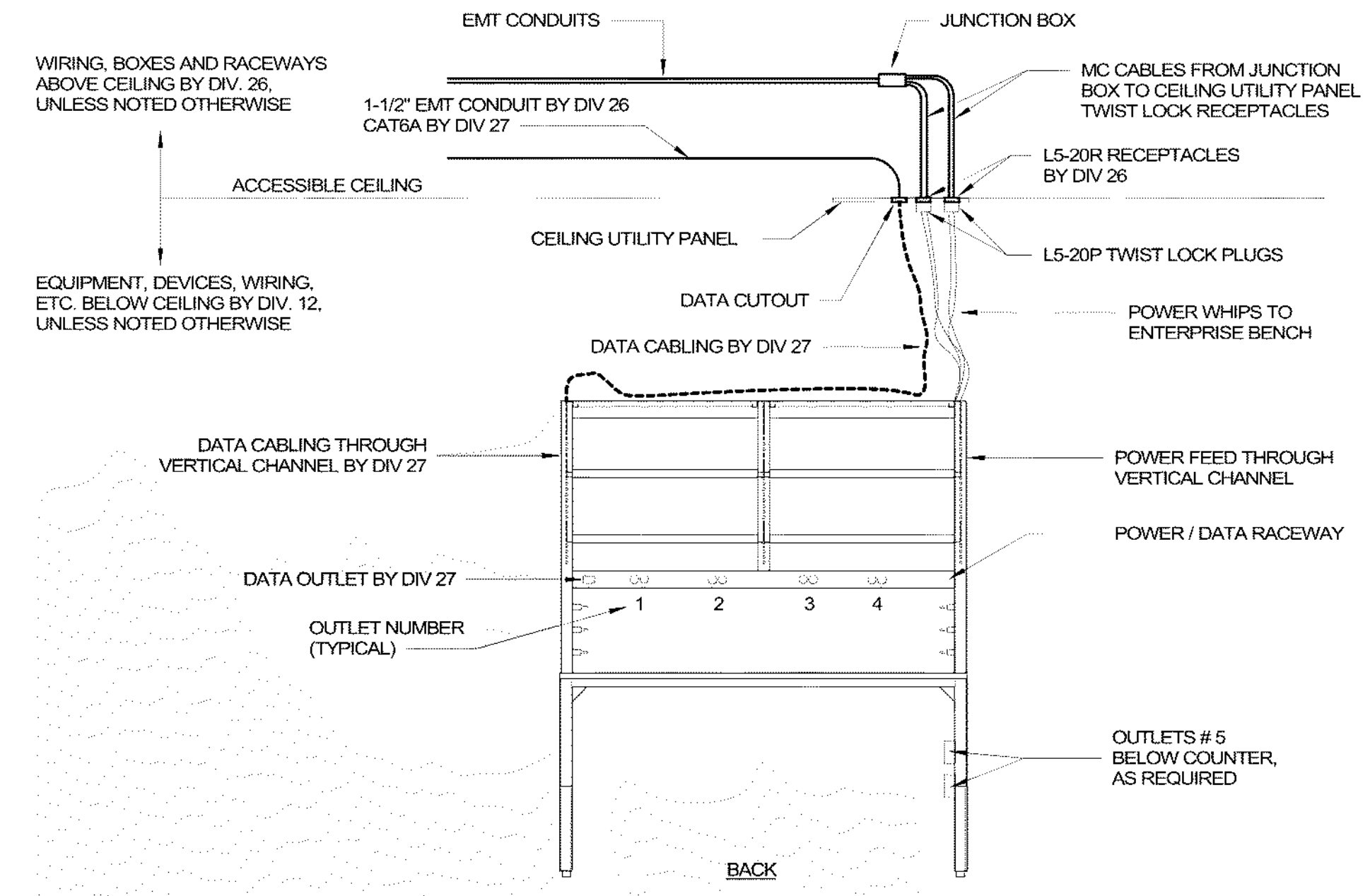
UTILITY PANEL NOTES:

- ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL UTILITY PANEL RECEPTACLES WITH THE FOLLOWING COLOR BODY AND COVERPLATE BASED ON THEIR UTILITY POWER SOURCE:
NORMAL - WHITE
STANDBY EMERGENCY - RED
UPS - BLUE
- ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT LABELS FOR UTILITY PANEL RECEPTACLES. REFER TO SPECIFICATION SECTION 260553 FOR CIRCUIT LABEL REQUIREMENTS.
- CASEWORK MANUFACTURER SHALL PROVIDE POWER WHIPS FOR ALL UTILITY PANEL ELECTRICAL DEVICES. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS FROM UTILITY PANEL TO BENCH. COORDINATE CASEWORK CIRCUITING CONNECTIONS WITH ELECTRICAL PLANS AND SCHEDULE ON THIS SHEET.
- ELECTRICAL CONTRACTOR SHALL PROVIDE JUNCTION BOX ABOVE CEILING UTILITY PANEL AND UTILIZE METAL CLAD CABLE FOR CONNECTIONS TO UTILITY PANEL DEVICES. ALL WIRING FROM PANELBOARD TO JUNCTION BOX SHALL BE IN EMT CONDUIT. SEE ENTERPRISE BENCH ELEVATION ON THIS SHEET FOR ADDITIONAL INFO.
- TELECOMMUNICATIONS CONTRACTOR SHALL PROVIDE ALL DATA CABLING AND OUTLETS FOR UTILITY PANELS AS REQUIRED. TYPICAL DATA INSTALLATION FOR CEILING UTILITY PANEL IS SHOWN IN THE ENTERPRISE BENCH ELEVATION ON THIS SHEET.
- CEILING UTILITY PANEL IS PROVIDED WITH CUTOUTS FOR DEVICES BY CASEWORK MANUFACTURER. ELECTRICAL CONTRACTOR SHALL PROVIDE COVERPLATES FOR ANY UNUSED CUTOUTS IN UTILITY PANELS.



TYPICAL CEILING UTILITY PANEL - TYPE 'UP1' - 4 CIRCUIT

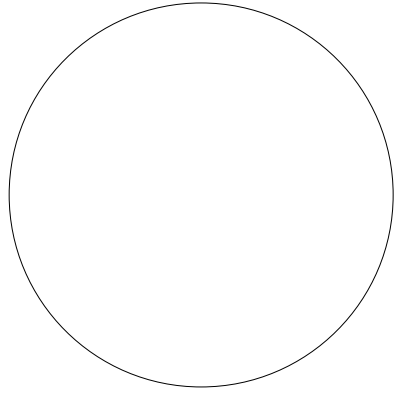
TYPICAL CEILING UTILITY PANEL - TYPE 'UP2' - 6 CIRCUIT



TYPICAL ENTERPRISE BENCH ELEVATION

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REVISIONS

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E		ISSUED FOR GC BIDDING	11.08.2024
D			10.11.2024
C		ISSUED FOR OWNER'S REVIEW	09.26.2024
B		DESIGN DEVELOPMENT	05.24.2024
A		50% DD SET	05.10.2024

**SOUTHERN NEVADA
NEW BSL-3 LABORATORY
BUILDING**

700 South M.L.K. Blvd Las Vegas, NV 89106

DRAWN BY SW DATE 10.11.2024

PROJECT NO. 20230523 SCALE

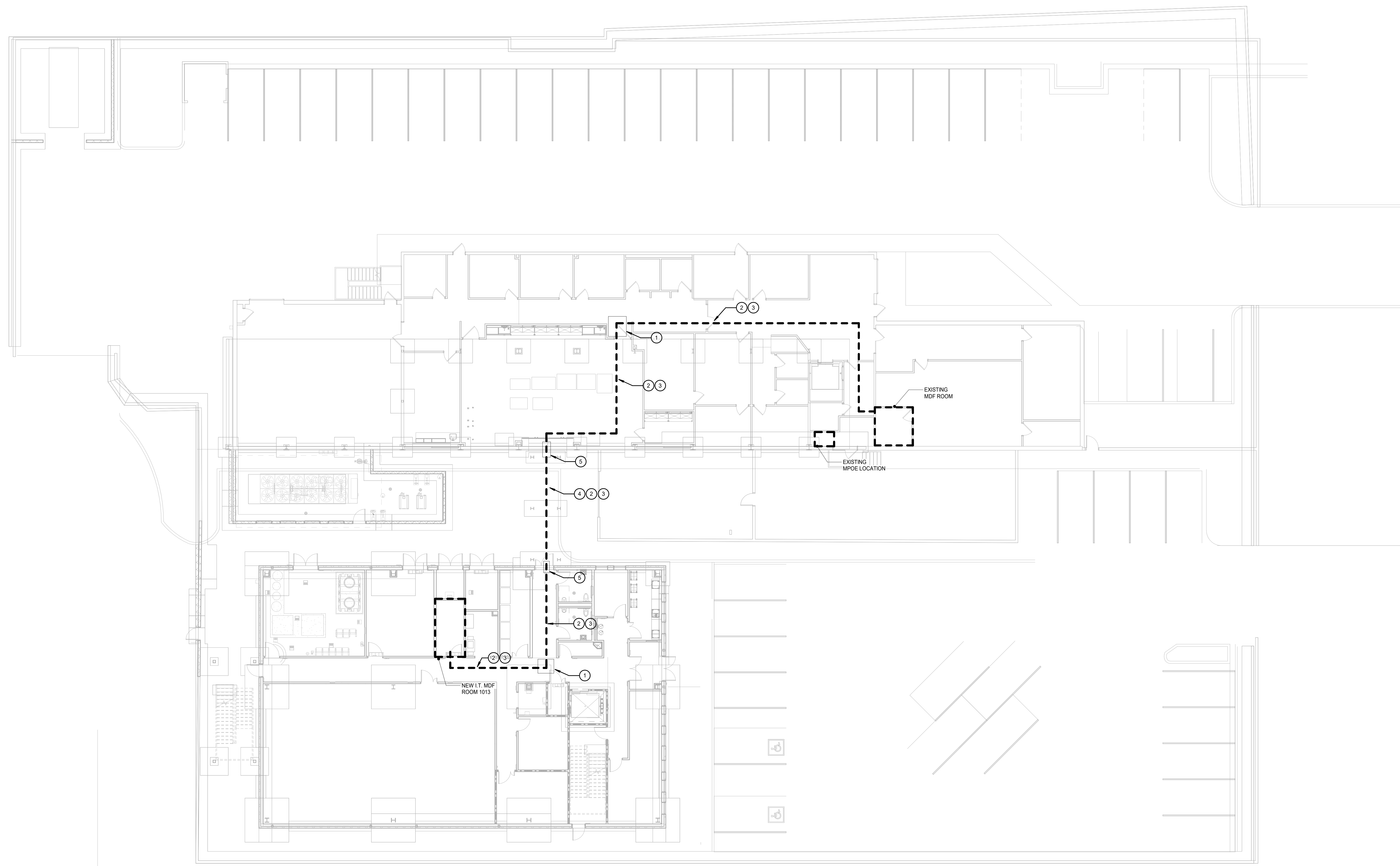
DRAWING NAME
CASEWORK ELECTRICAL COORDINATION SCHEDULE AND
DETAILS

FLOOR/SECTION PHASE DRAWING NO.

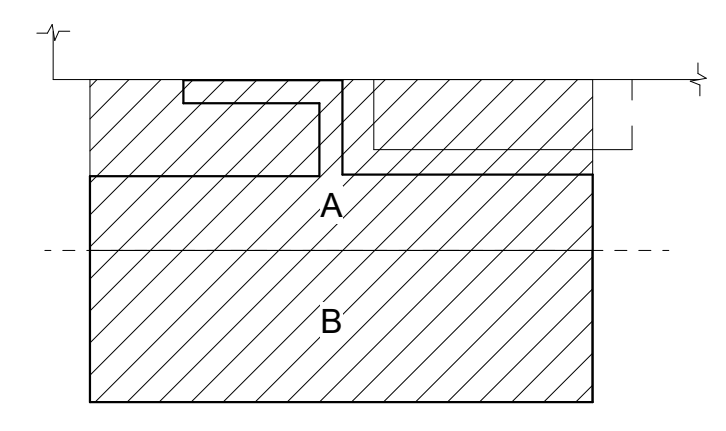
CD E6.4



- DRAWING NOTES:**
- 1 PROVIDE 18"W X 18"L X 8"D (MIN.) PULLBOX ABOVE ACCESSIBLE CEILING FOR 2" CDT. FOR COPPER AND OPTICAL FIBER BACKBONE CABLING. COORDINATE LOCATION WITH ANY NEW AND/OR EXISTING ABOVE CEILING UTILITIES.
 - 2 PROVIDE OSP RATED 25-PAIR CAT3 COPPER BACKBONE IN 2" EMT ENCLOSED CONDUIT/RACEWAY SYSTEM. FROM EXISTING MDF ROOM TO NEW I.T. MDF ROOM. COORDINATE ROUTING ABOVE ACCESSIBLE CEILING WITH EXISTING ABOVE CEILING UTILITIES.
 - 3 PROVIDE 12-STRAND MULTIMODE (OM3) ARMORED INDOOR/OUTDOOR, PLENUM RATED OPTICAL FIBER CABLE BACKBONE IN 2" EMT CDT FROM EXISTING MDF ROOM TO NEW I.T. MDF ROOM. COORDINATE ROUTING ABOVE ACCESSIBLE CEILING WITH EXISTING ABOVE CEILING UTILITIES.
 - 4 CONDUIT FOR COPPER AND OPTICAL FIBER BACKBONE SHALL BE INSTALLED WITHIN STRUCTURAL CAVITY BENEATH NEW CONNECTING WALKWAY BETWEEN STRUCTURES. COORDINATE INSTALLATION WITH STRUCTURAL STEEL FRAMING OF NEW CONNECTOR.
 - 5 PROVIDE FIRE-RATED, WATERPROOF SLEEVE FOR EACH CONDUIT PENETRATION THROUGH WALL INTO UNDERSIDE OF NEW STRUCTURAL CONNECTOR.



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700 South M.L.K. Blvd Las Vegas, NV 89106

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PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME
TECHNOLOGY SITE PLAN

FLOOR/SECTION PHASE DRAWING NO.

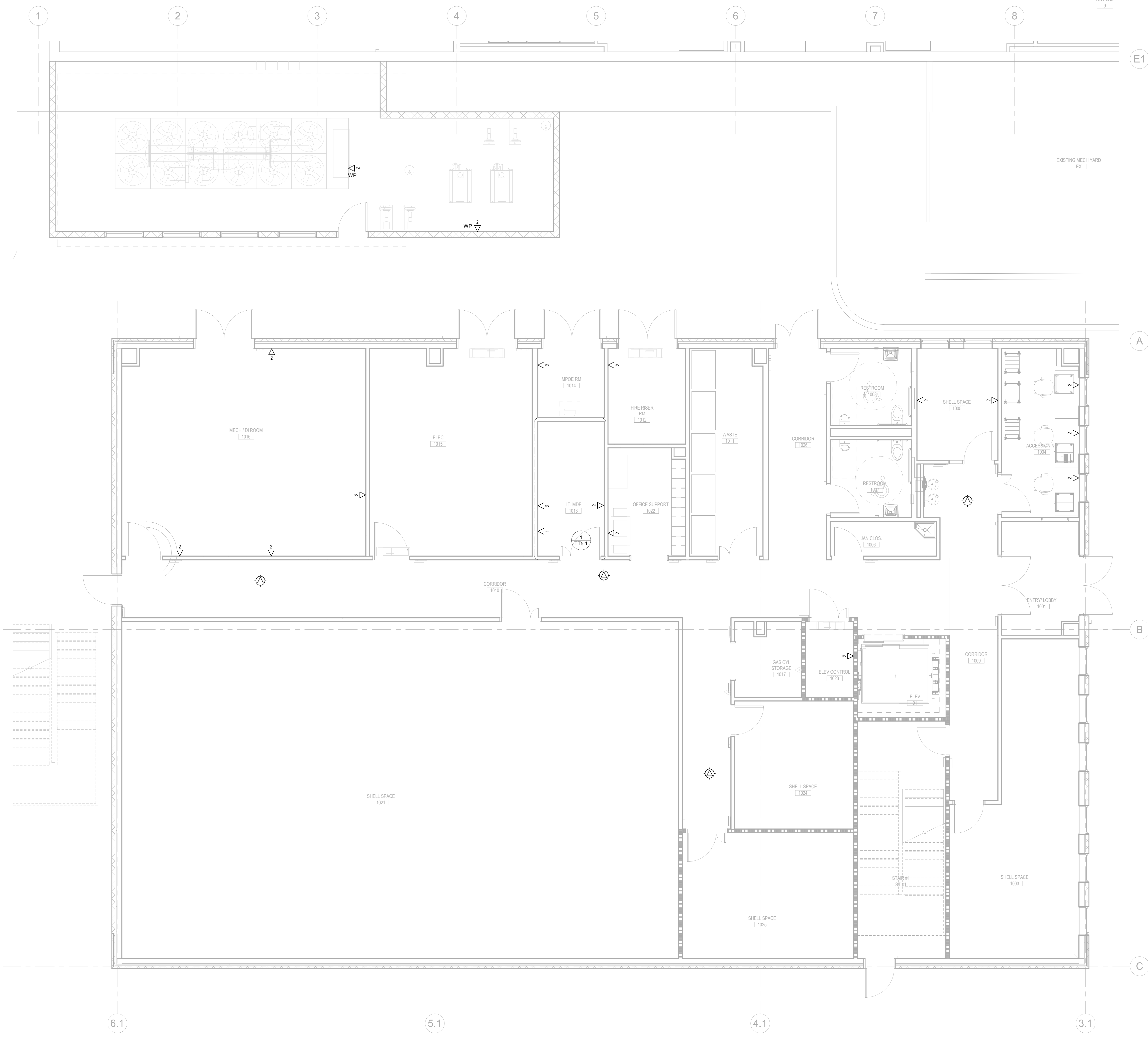
CD T0.1

1 TECHNOLOGY SITE PLAN
SCALE: 3/32" = 1'-0"

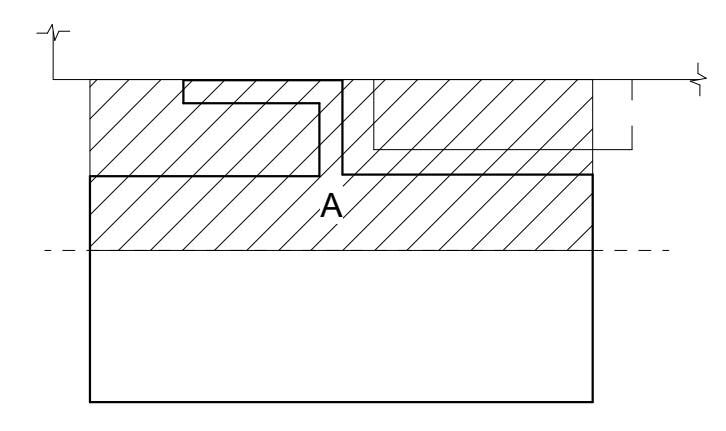


GENERAL NOTES:

1. FOR GENERAL NOTES, TELECOMMUNICATIONS ABBREVIATIONS, AND SYMBOL LIST REFER TO DRAWING TG.1.
2. CONTRACTOR SHALL REFER TO EACH OTHER SPECIFIC DISCIPLINE DRAWINGS FOR EXACT EQUIPMENT LOCATION.
3. COORDINATE DEVICE LOCATIONS WITH CASEWORK AND FURNITURE ELEVATIONS. REFER TO ARCHITECTURAL DETAILS AND ELEVATIONS FOR ADDITIONAL INFORMATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO ROUGH-IN.
4. AT NO POINT SHALL CABLES TOUCH OR REST UPON EQUIPMENT OR COMPONENTS ASSOCIATED WITH OTHER TRADES.
5. PLASTIC TY-WRAPS SHALL NOT BE UTILIZED ON THIS PROJECT. ONLY VELCRO HOOK AND LOOP STRAPS ARE PERMITTED FOR DRESSING AND GROUPING OF CABLING.
6. UNLESS OTHERWISE NOTED, CABLING FOR ALL TELECOMMUNICATIONS AND SECURITY DEVICES SHALL BE ROUTED BACK TO NEAREST CABLE TRAY IN METALLIC CONDUIT. MINIMUM CONDUIT SIZE SHALL BE 1-1/4".
7. WIRELESS ACCESS POINT LOCATIONS IDENTIFIED WITH "WP" SHALL BE PROVIDED WITH AN ENVIRONMENTAL SEALED ENCLOSURE. REFER TO DETAIL 111TS.1.



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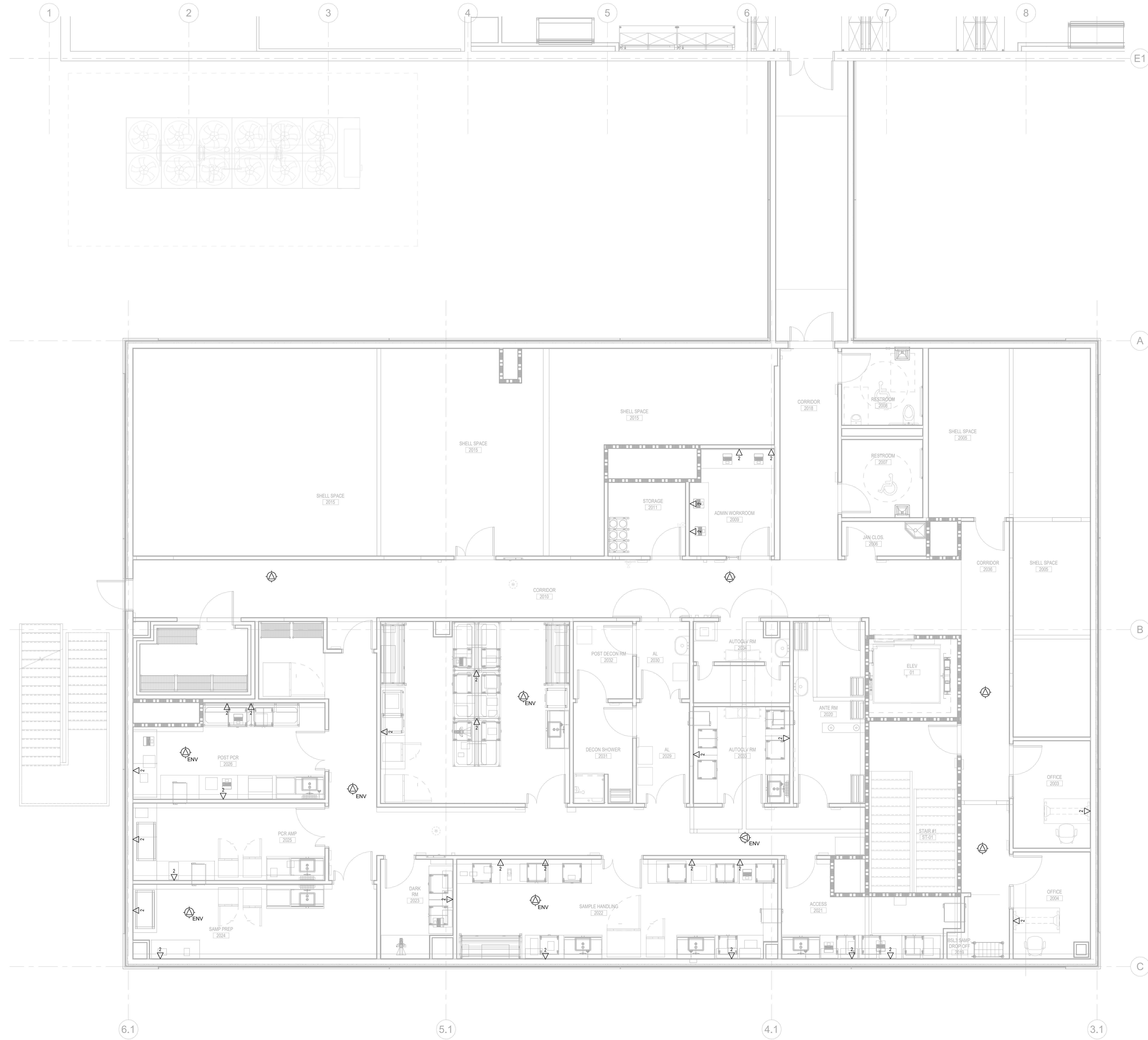
DRAWING NAME TELECOM PLAN - LEVEL 1 - PHASE 1

FLOOR/SECTION PHASE DRAWING NO.

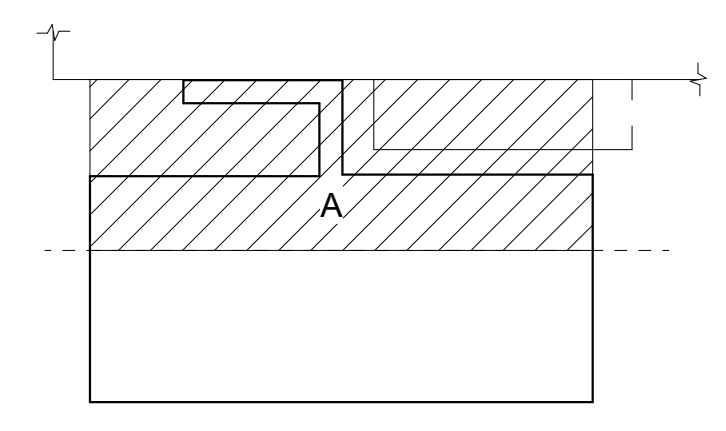
1 CD TT2.1.1



- GENERAL NOTES:**
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 - WIRELESS ACCESS POINT LOCATIONS IDENTIFIED WITH "ENV" SHALL BE PROVIDED WITH AN ENVIRONMENTAL SEALED ENCLOSURE. REFER TO DETAIL 11/76.1.



KEY PLAN



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PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME
TELECOM PLAN - LEVEL 2 - PHASE 1

FLOOR/SECTION PHASE DRAWING NO.

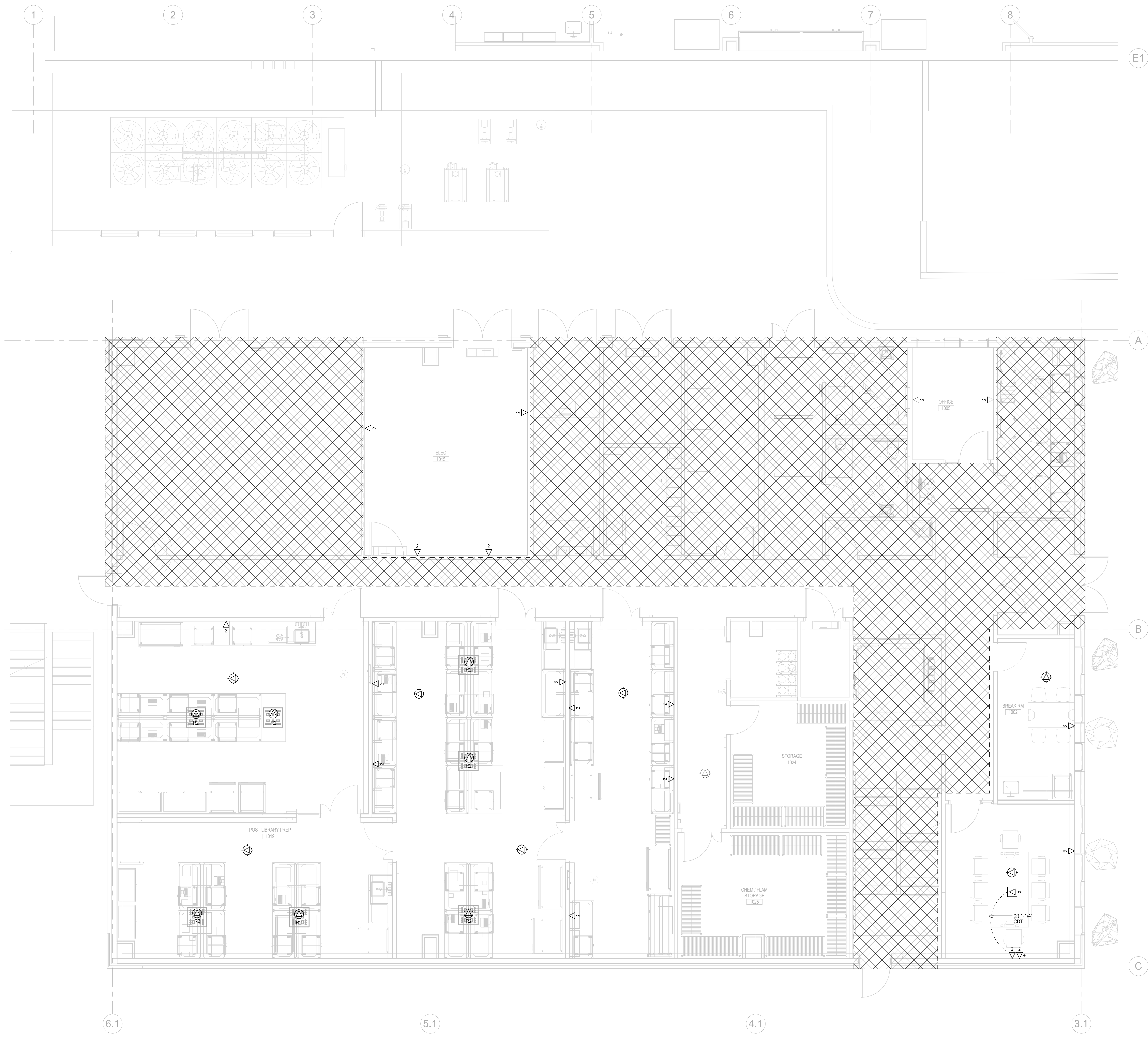
2 CD TT2.2.1

1 TELECOM PLAN - LEVEL 2 - PHASE 1
SCALE: 1/4" = 1'-0"

11/11/2024 4:14:52 PM Autodesk Docs/20230523 - South Nevada Health District MLK BSL-3 LAB/20230523_E22_CENTRAL.rvt



- GENERAL NOTES:**
- FOR GENERAL NOTES, TELECOMMUNICATIONS ABBREVIATIONS, AND SYMBOL LIST REFER TO DRAWING TG.1.
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PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME TELECOM PLAN - LEVEL 1 - PHASE 2

FLOOR/SECTION PHASE DRAWING NO.

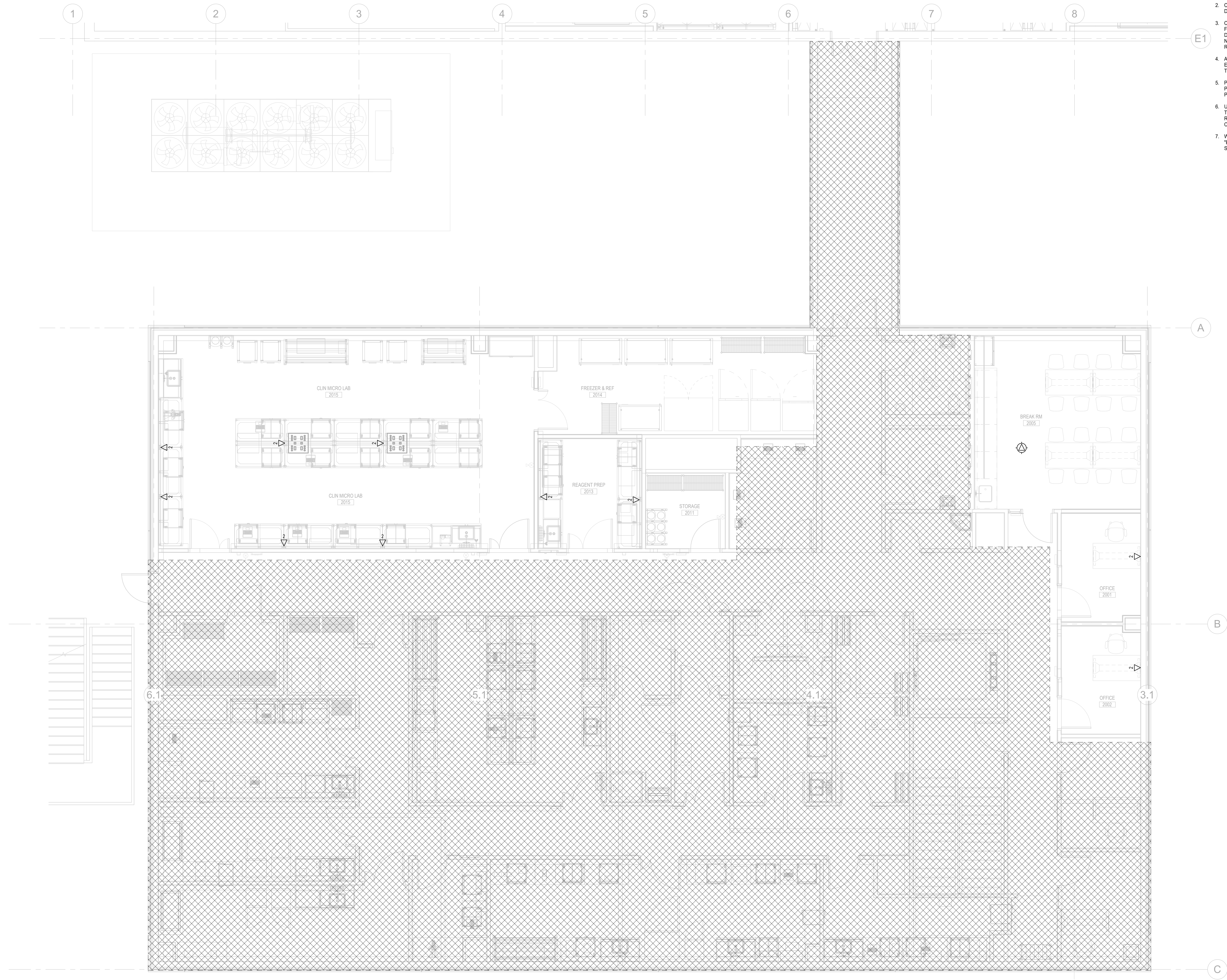
1 CD TT2.1.2

1 TELECOM PLAN - LEVEL 1 - PHASE 2
SCALE: 1/4" = 1'-0"

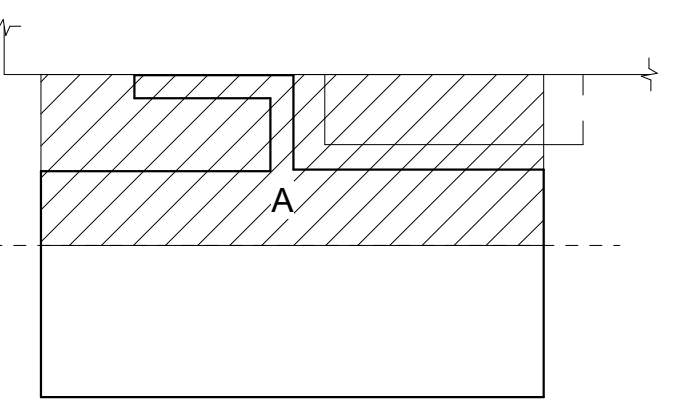


GENERAL NOTES:

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7. WIRELESS ACCESS POINT LOCATIONS IDENTIFIED WITH "ENP" SHALL BE PROVIDED WITH AN ENVIRONMENTAL SEALED ENCLOSURE. REFER TO DETAIL 11/76.1.



KEY PLAN



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DRAWING NAME

TELECOM PLAN - LEVEL 2 - PHASE 2

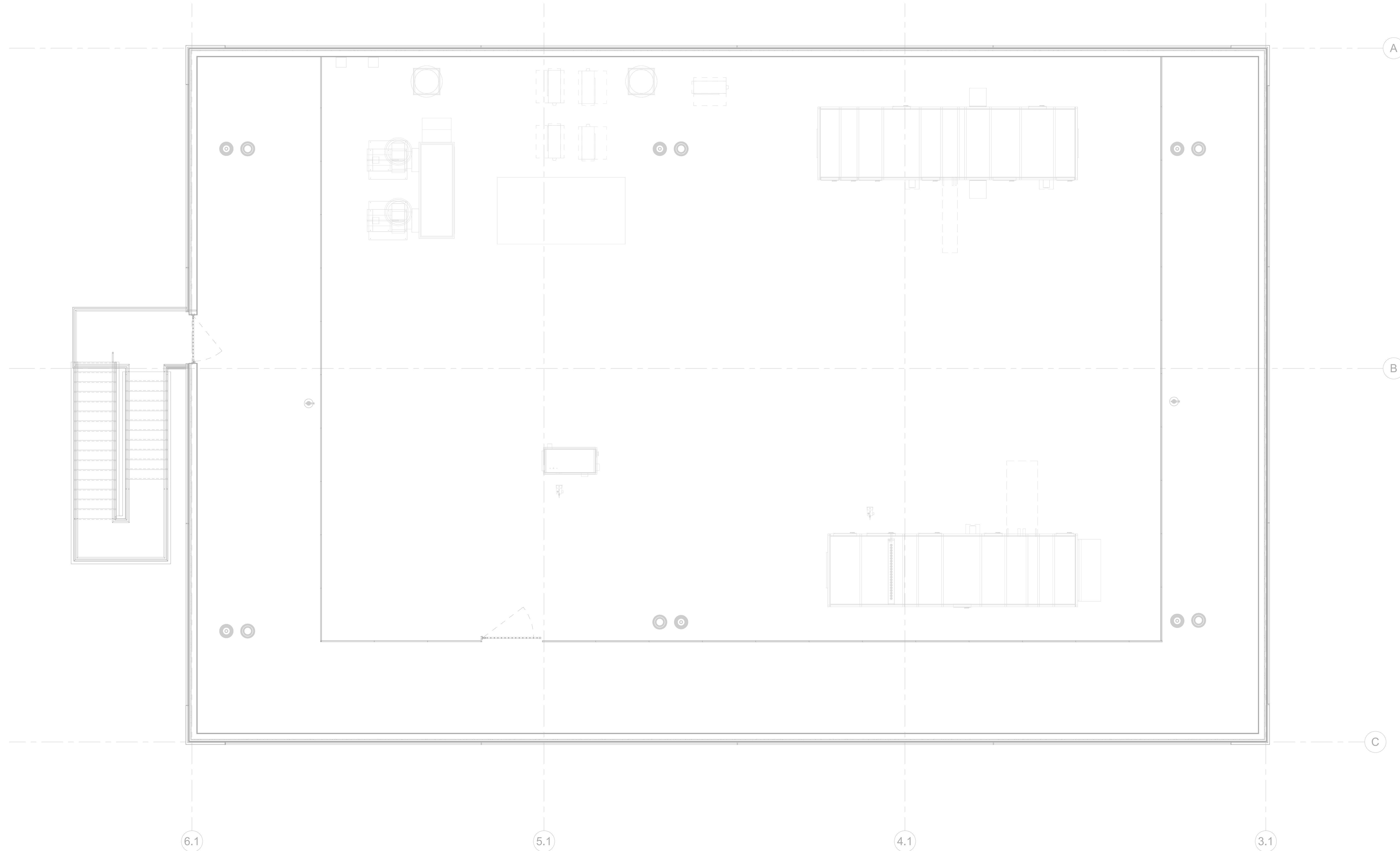
FLOOR/SECTION PHASE DRAWING NO.

2 CD TT2.2.2

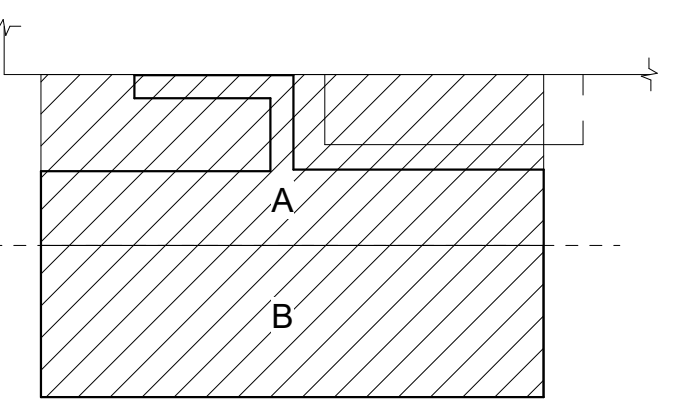
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SCALE: 1/4" = 1'-0"



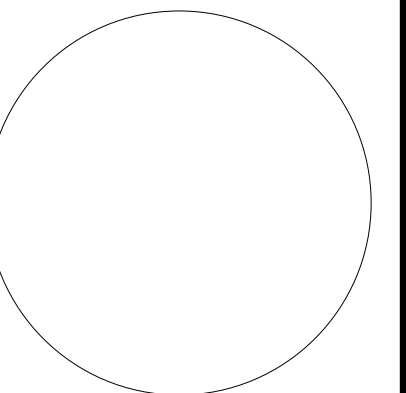
- GENERAL NOTES:**
- FOR GENERAL NOTES, TELECOMMUNICATIONS ABBREVIATIONS, AND SYMBOL LIST REFER TO DRAWING TG.1.
 - CONTRACTOR SHALL REFER TO EACH OTHER SPECIFIC DISCIPLINES DRAWINGS FOR EXACT EQUIPMENT LOCATION.
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 - UNLESS OTHERWISE NOTED, CABLING FOR ALL TELECOMMUNICATIONS AND SECURITY DEVICES SHALL BE ROUTED BACK TO NEAREST CABLE TRAY IN METALLIC CONDUIT. MINIMUM CONDUIT SIZE SHALL BE 1-1/4".
 - WIRELESS ACCESS POINT LOCATIONS IDENTIFIED WITH "WV" SHALL BE PROVIDED WITH AN ENVIRONMENTAL SEALED ENCLOSURE. REFER TO DETAIL 11/6.1.



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DRAWING NAME
TELECOM PLAN - ROOF

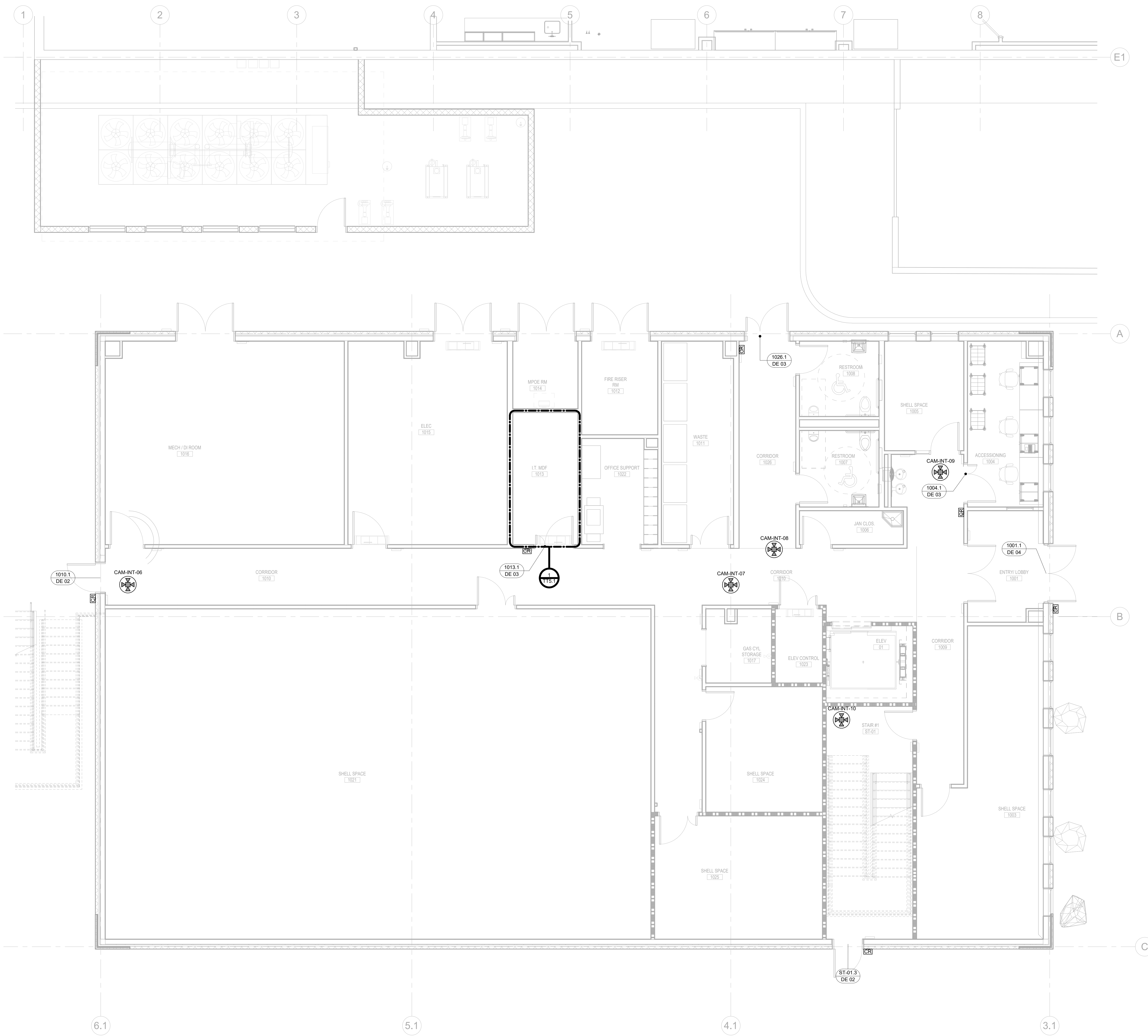
FLOOR/SECTION PHASE DRAWING NO.

RF CD TT2.3

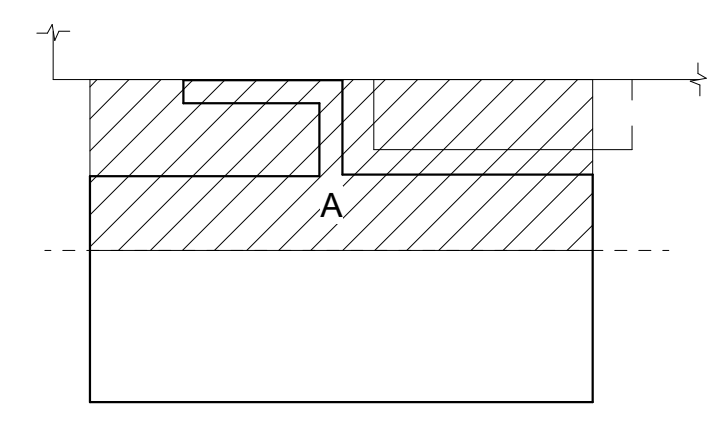
1 TELECOM PLAN - ROOF
SCALE: 1/4" = 1'-0"



- GENERAL NOTES:
- FOR GENERAL NOTES, SECURITY ABBREVIATIONS AND SYMBOL LIST REFER TO DRAWING TG.1
 - ALL LOW VOLTAGE CABLING SHALL BE ROUTED TO DESIGNATED MDF OR IDF ROOM WITHOUT SPLICES.
 - AT NO POINT SHALL CABLES TOUCH OR REST UPON EQUIPMENT OR COMPONENTS ASSOCIATED WITH OTHER TRADES.
 - PLASTIC TY-WRAPS SHALL NOT BE UTILIZED ON THIS PROJECT. ONLY VELCRO HOOK AND LOOP STRAPS ARE PERMITTED FOR DRESSING AND GROUPING OF CABLING.
 - UNLESS OTHERWISE NOTED, CABLING FOR ALL TELECOMMUNICATIONS AND SECURITY DEVICES SHALL BE ROUTED BACK TO NEAREST CABLE TRAY IN METALLIC CONDUIT. MINIMUM CONDUIT SIZE SHALL BE 1-1/4".
 - REFER TO T11 SERIES PLANS FOR SUGGESTED CABLE TRAY SYSTEM ROUTING AND DESIGNATED MDF OR IDF ROOM SERVING AREAS.
 - COORDINATE EXACT LOCATION OF CAMERAS IN FIELD PRIOR TO INSTALLATION TO ENSURE FIELD-OF-VIEW MEETS OWNER'S REQUIREMENTS.
 - UNLESS OTHERWISE NOTED, ALL DOOR INTERLOCK CONTROLS, EXIT DEVICES AND ASSOCIATED ELECTRICIED HARDWARE FOR INTERLOCKED DOORS SHALL BE PROVIDED BY CLEAN ROOM VENDOR. SECURITY CONTRACTOR SHALL COORDINATE INTEGRATION OF ACCESS CONTROL SYSTEM (ACS) AND ACS DEVICES WITH INTERLOCK CONTROLLER SUPPLIED BY OTHERS.
 - CAMERAS SHALL BE PROVIDED BASED ON OWNER'S EXISTING SECURITY REQUIREMENTS. COORDINATE WITH OWNER AND OWNER'S EXISTING SECURITY VENDOR FOR CAMERA SELECTION AND EXACT MOUNTING REQUIREMENTS. LOCATIONS ARE BASED ON OWNER'S REQUIREMENTS.



KEY PLAN



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B		50% DD SET	05.24.2024
A			05.10.2024

**SOUTHERN NEVADA
NEW BSL-3 LABORATORY
BUILDING**

700 South M.L.K. Blvd Las Vegas, NV 89106

DRAWN BY: BQ DATE: 10.11.2024
PROJECT NO: 20230523 SCALE: As indicated

DRAWING NAME: SECURITY PLAN - LEVEL 1 - PHASE 1

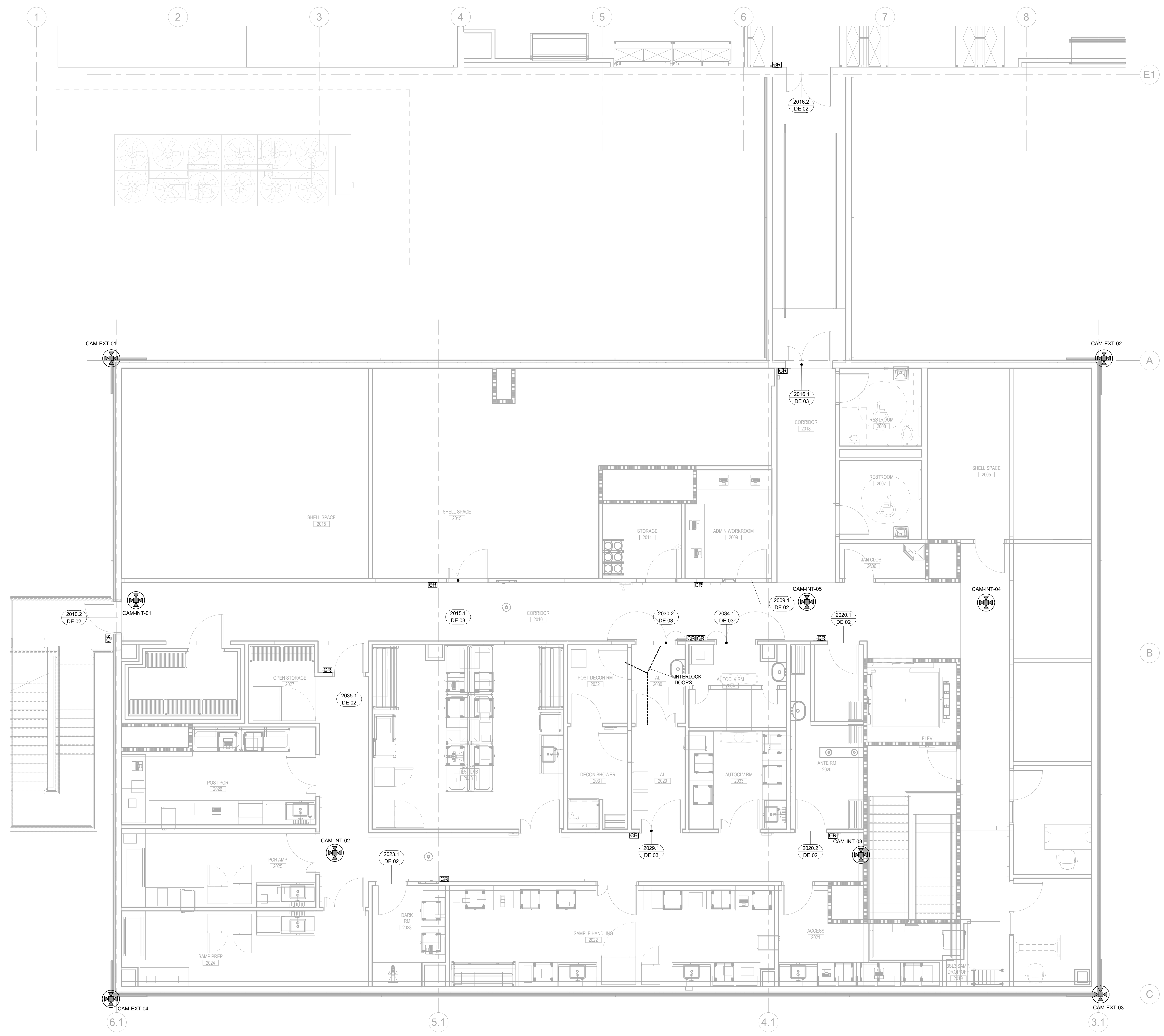
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1 SECURITY PLAN - LEVEL 1 - PHASE 1
SCALE: 1/8" = 1'-0"

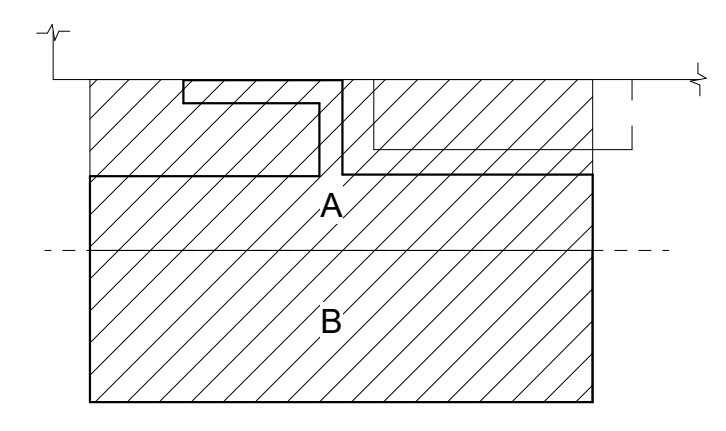
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- GENERAL NOTES:
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PRINCIPAL
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Electrical Engineer
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Electrical Model Lead
SEAN WIECZOREK

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700 South M.L.K. Blvd Las Vegas, NV 89106

DRAWN BY: BQ DATE: 10.11.2024

PROJECT NO: 20230523 SCALE: As indicated

DRAWING NAME: SECURITY PLAN - LEVEL 2 - PHASE 1

FLOOR/SECTION PHASE: DRAWING NO.

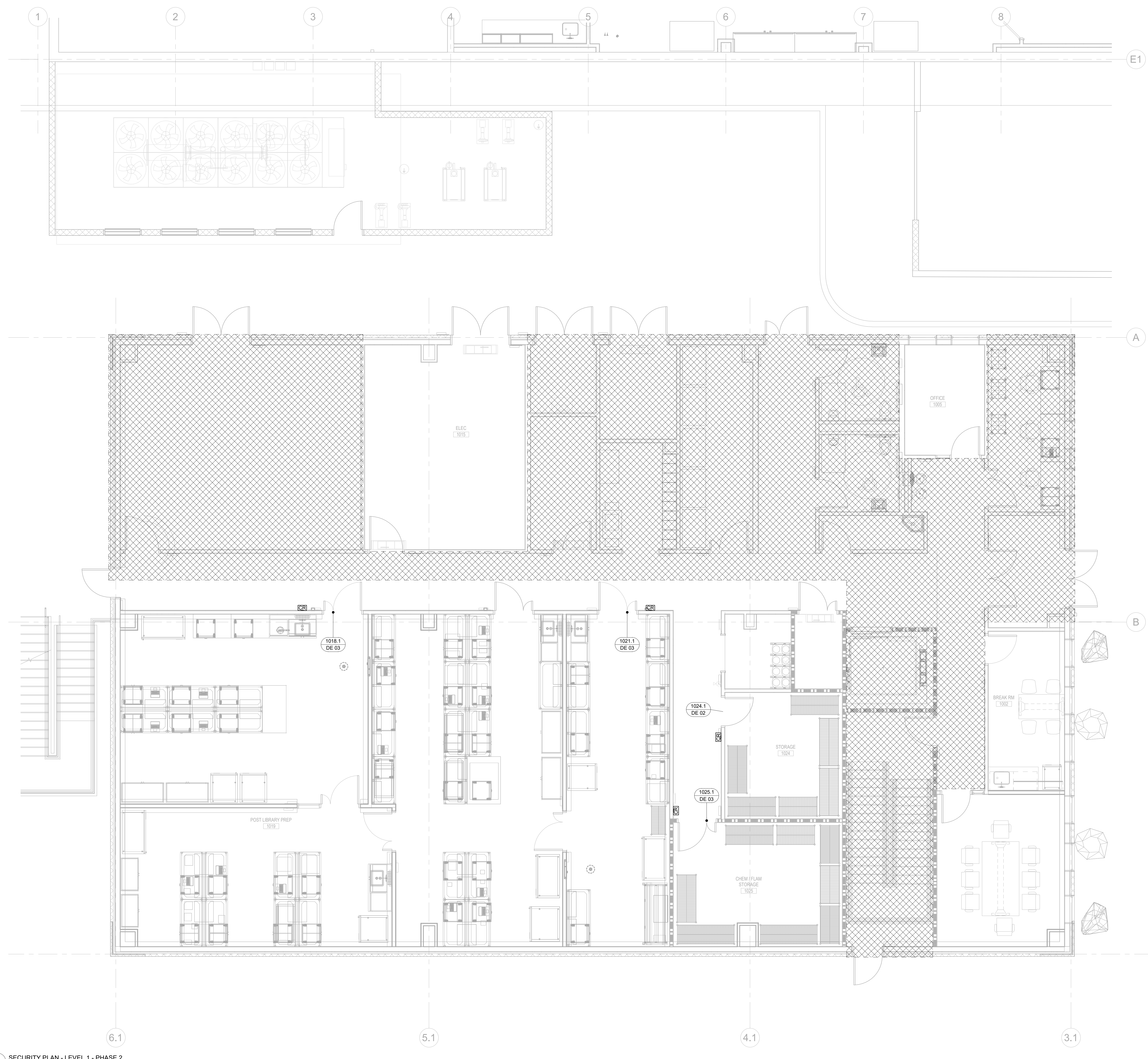
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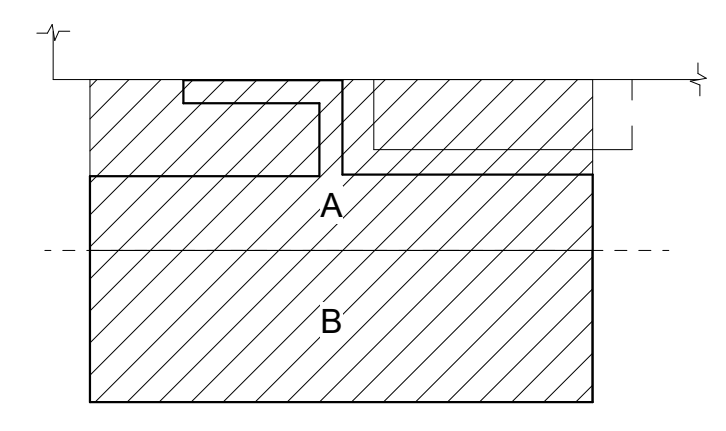
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700 South M.L.K. Blvd Las Vegas, NV 89106

DRAWN BY: BQ DATE: 10.11.2024

PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME

SECURITY PLAN - LEVEL 1 - PHASE 2

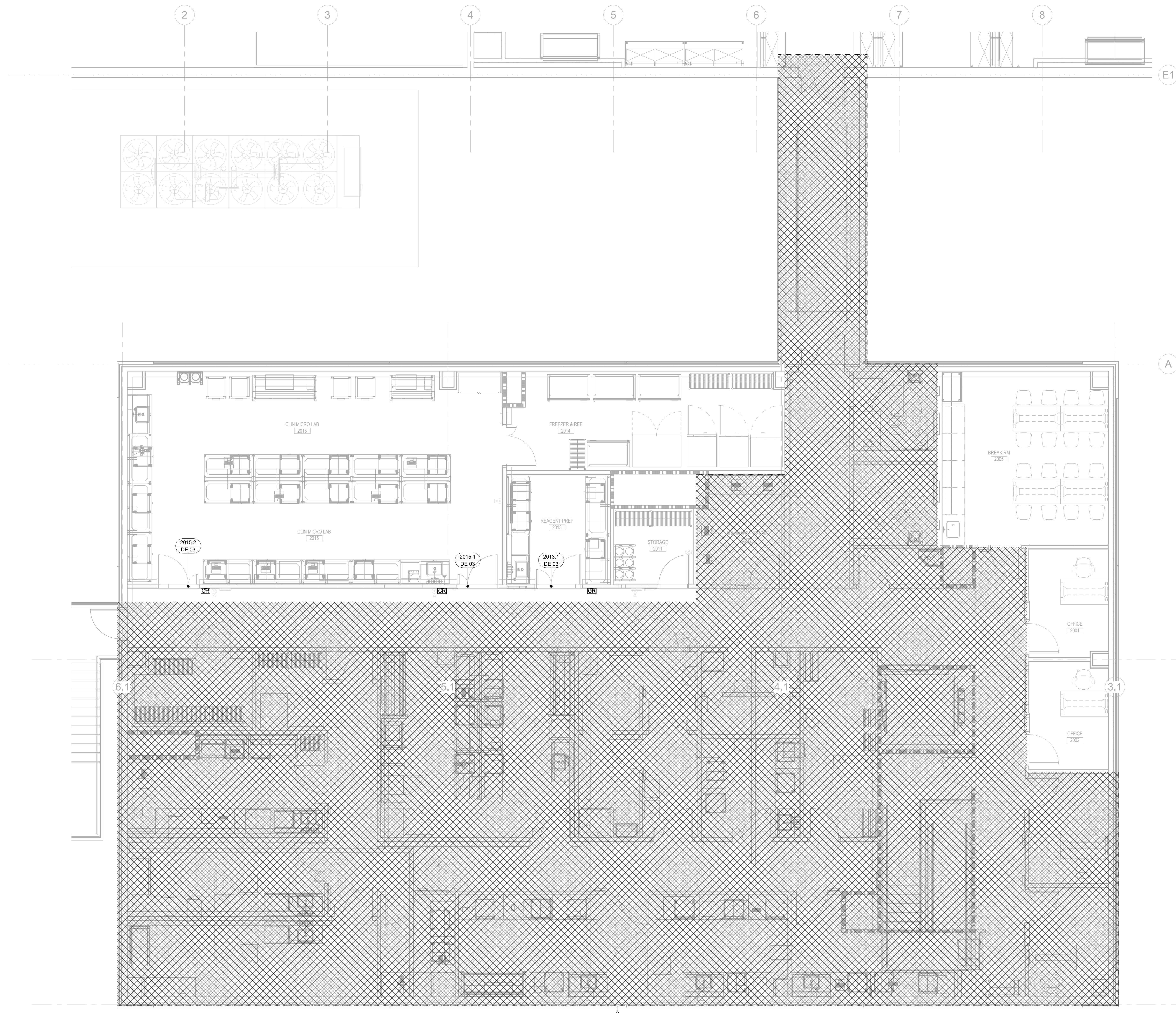
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1 CD TS2.1.2

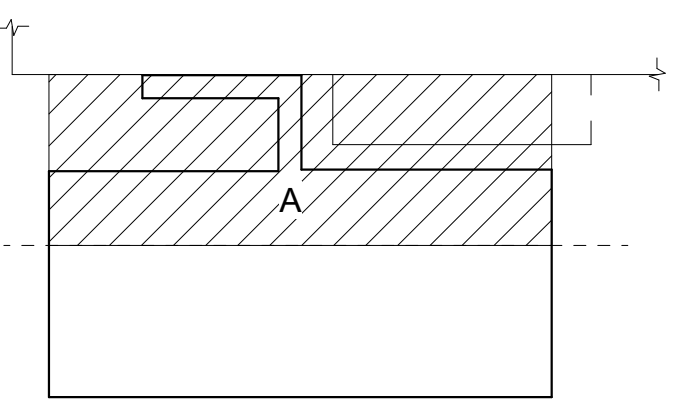


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PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME

SECURITY PLAN - LEVEL 2 - PHASE 2

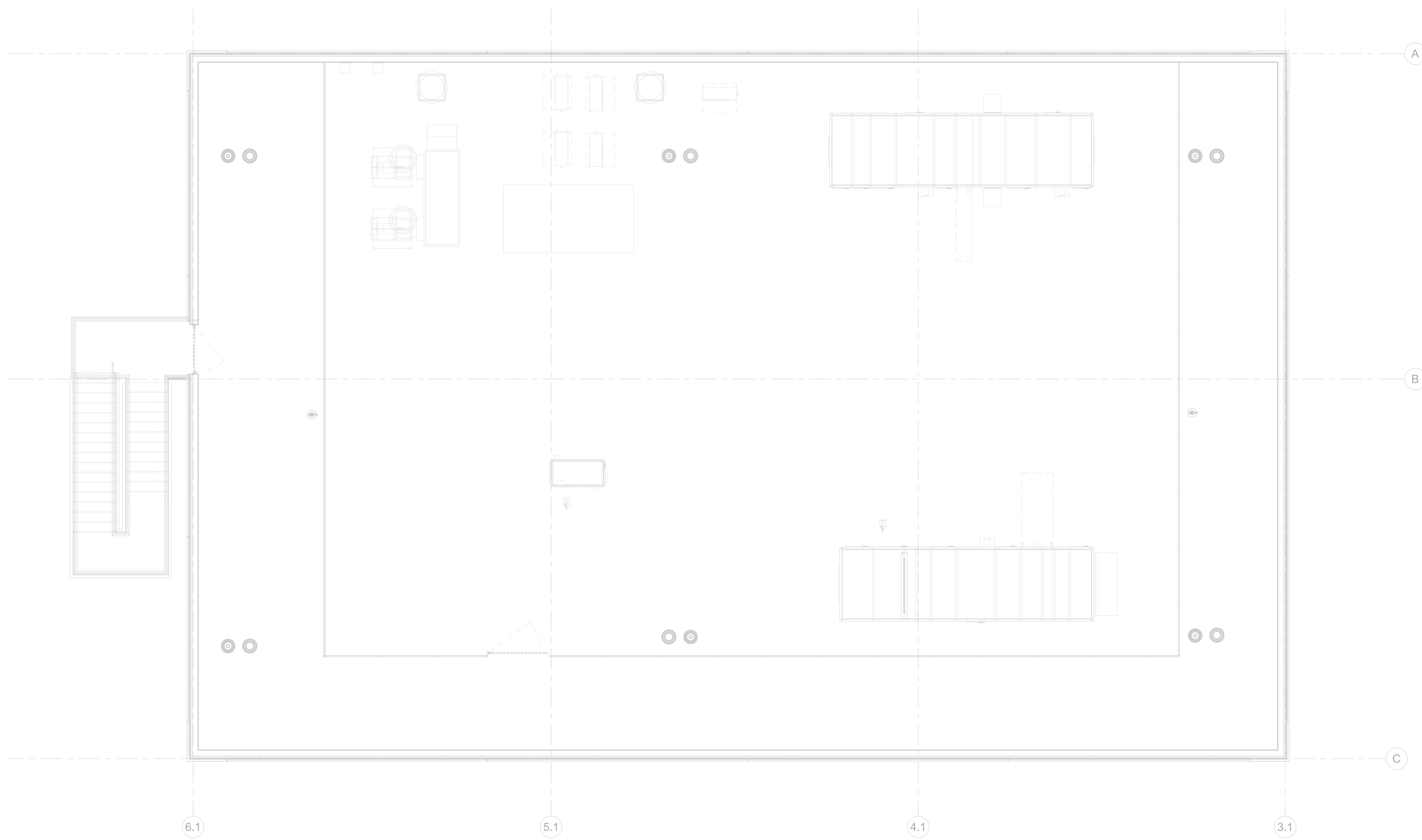
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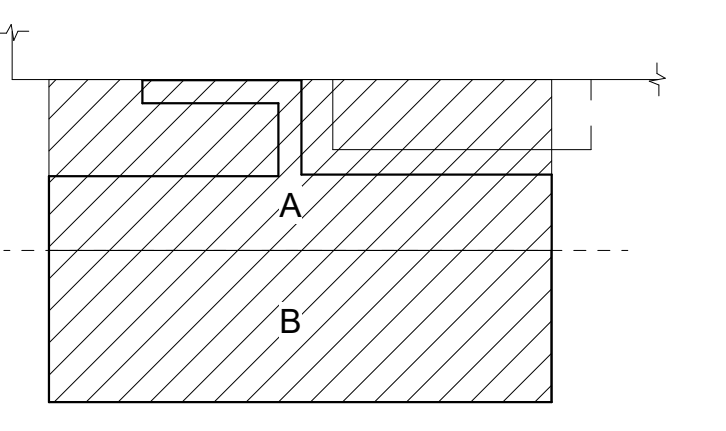
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SCALE: 1/4" = 1'-0"



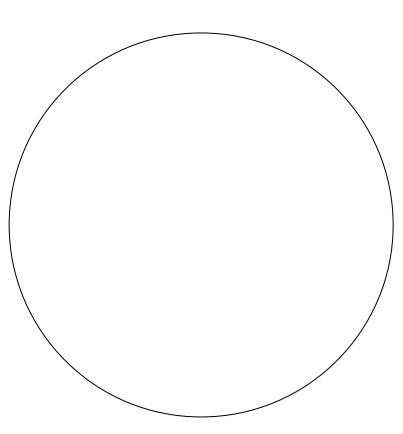
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DRAWN BY _____ BQ DATE 10.11.2024

PROJECT NO. 20230523 SCALE As indicated

DRAWING NAME SECURITY PLAN - ROOF

FLOOR/SECTION PHASE DRAWING NO.

RF CD TS2.3

1 SECURITY PLAN - ROOF
SCALE: 1/4" = 1'-0"

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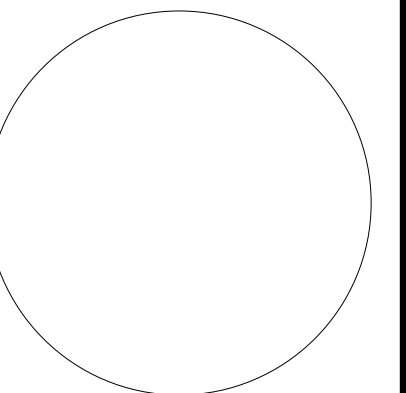


- GENERAL NOTES:**
- EQUIPMENT SHALL MEET OR EXCEED ANS/ITIA STANDARDS.
 - FURNISH FIBER ADAPTER PLATES AND PATCH CABLES REQUIRED TO ACCOMMODATE 110% OF THE EXISTING AND NEW FIBER OPTICS.
 - FURNISH 2 VERTICAL MULTI-OUTLET RACK POWER STRIP PER ACTIVE EQUIPMENT RACK (TYP.)
 - CONTRACTOR SHALL FASTEN RACKS PERMANENTLY TO THE FLOOR USING APPLICATION-SPECIFIC, CORRECT SIZED STUD, NUT AND WASHER FASTENING HARDWARE.
 - DEVICES SHOWN IN HALF-TONE ARE PROVIDED BY OTHERS. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT PATHWAYS AS REQUIRED.

- DRAWING NOTES:**
- 84" H X 30" W X 48" D 4-POST RACK WITH EIA/ITIA STANDARD EIA-310 COMPLIANT RACK RAILS AND A 3-BLADE, RACK UNIT (RU) MOUNTED HORIZONTAL FAN UNIT.
 - EIA/ITIA STANDARD EIA-310 COMPLIANT 84" H X 19" W TWO POST, OPEN FRAME RELAY RACKS. EACH RACK SHALL BE FASTENED PERMANENTLY TO THE FLOOR USING APPLICATION-SPECIFIC, CORRECT SIZED STUD, NUT AND WASHERS FASTENING HARDWARE.
 - 84" H X 6" W X 24.5" D DOUBLE SIDED VERTICAL CABLE MANAGERS.
 - 84" H X 10" W X 24.5" D DOUBLE SIDED VERTICAL CABLE MANAGERS.
 - 18" W OVERHEAD CABLE RUNWAY WITH 9" TRANSVERSE RUNGS SPACING. THE TELECOM CONTRACTOR SHALL PROVIDE AND INSTALL ALL CABLE TRAY TRANSITION ASSEMBLIES, FITTINGS, AND ACCESSORIES TO INCLUDE ELBOWS, TEES, HOLD DOWN COMPONENTS, GROUND STRAPS AND DROP-OUTS. CABLE TRAY ENDS SHALL EXTEND TO AND BUTT THE ASSOCIATED WALL AND BE FASTENED TO THE WALL WITH APPLICATION-SPECIFIC CABLE TRAY WALL ABUTMENT FITTINGS AND WALL FASTENERS. OVERHEAD LADDER TYPE CABLE TRAY SHALL BE MOUNTED 90" AFF.
 - 96" H X 3/4" THICK, GRADE A/C, FIRE RATED, PLYWOOD MOUNTED CONTINUOUSLY ON ALL FOUR WALLS WITH THE BOTTOM EDGE AT 6" AFF AND THE TOP EDGE AT 102" AFF. PRIOR TO INSTALLATION, EACH SHEET OF PLYWOOD SHALL BE PAINTED ON BOTH SIDES AND ON ALL 4 EDGES, LEAVING THE FIRE RATED STAMP MARKINGS EXPOSED FOR INSPECTION. THE PLYWOOD SHALL BE MOUNTED WITH THE GRADE-C SIDE FACING THE WALL AND WITH THE GRADE-A SIDE EXPOSED.
 - PROVIDE (3) 4" SQUARE RE-ENTERABLE FIRE-RELATED SLEEVES THROUGH WALL. REFER TO DIVISION 28 SPECIFICATIONS, EACH WALL CORE BOTTOM EDGE SHALL BE 12" AFF. ON WIRE AND CABLE INSTALLATION COMPLETION, BUILDING CODE COMPLIANT, RE-ENTERABLE FIRE STOP SHALL BE INSTALLED IN ALL WALL CORES REGARDLESS OF CORE CABLE PASSAGE CONTENT.
 - ANSI/EIA/ITIA JOINT STANDARD 607 COMPLIANT TELECOM GROUND BUSBAR (TGB) MOUNTED AT 72" AFF.
 - ALL REQUIRED ACCESS CONTROL/INTRUSION DETECTION SYSTEM (ACIDS), CONTROL MODULE, CONTROLLER, POWER SUPPLY, BACKUP BATTERY COMPONENTS AND WALL MOUNT ENCLOSURES, MOUNT WITH TOP EDGE AT 66" AFF.
 - CORPORATE NETWORK SWITCH (BY OWNER).
 - 1-PORT WALL TELEPHONE TELECOM OUTLET, MOUNT 48" AFF TO CENTER.
 - 24-PORT CATEGORY 6A VOICE/DATA NETWORK CABLING PATCH PANEL, (QUANTITY AS REQUIRED)
 - 48-PORT CATEGORY 6A VOICE/DATA NETWORK CABLING PATCH PANEL, (QUANTITY AS REQUIRED)
 - 2U MULTI MODE FIBER CONNECTOR PANEL.
 - 48-PORT CATEGORY 6A WIFI WIRELESS ACCESS POINT AND CAMERA CABLING PATCH PANEL (QUANTITY AS REQUIRED).
 - HORIZONTAL CABLE MANAGEMENT

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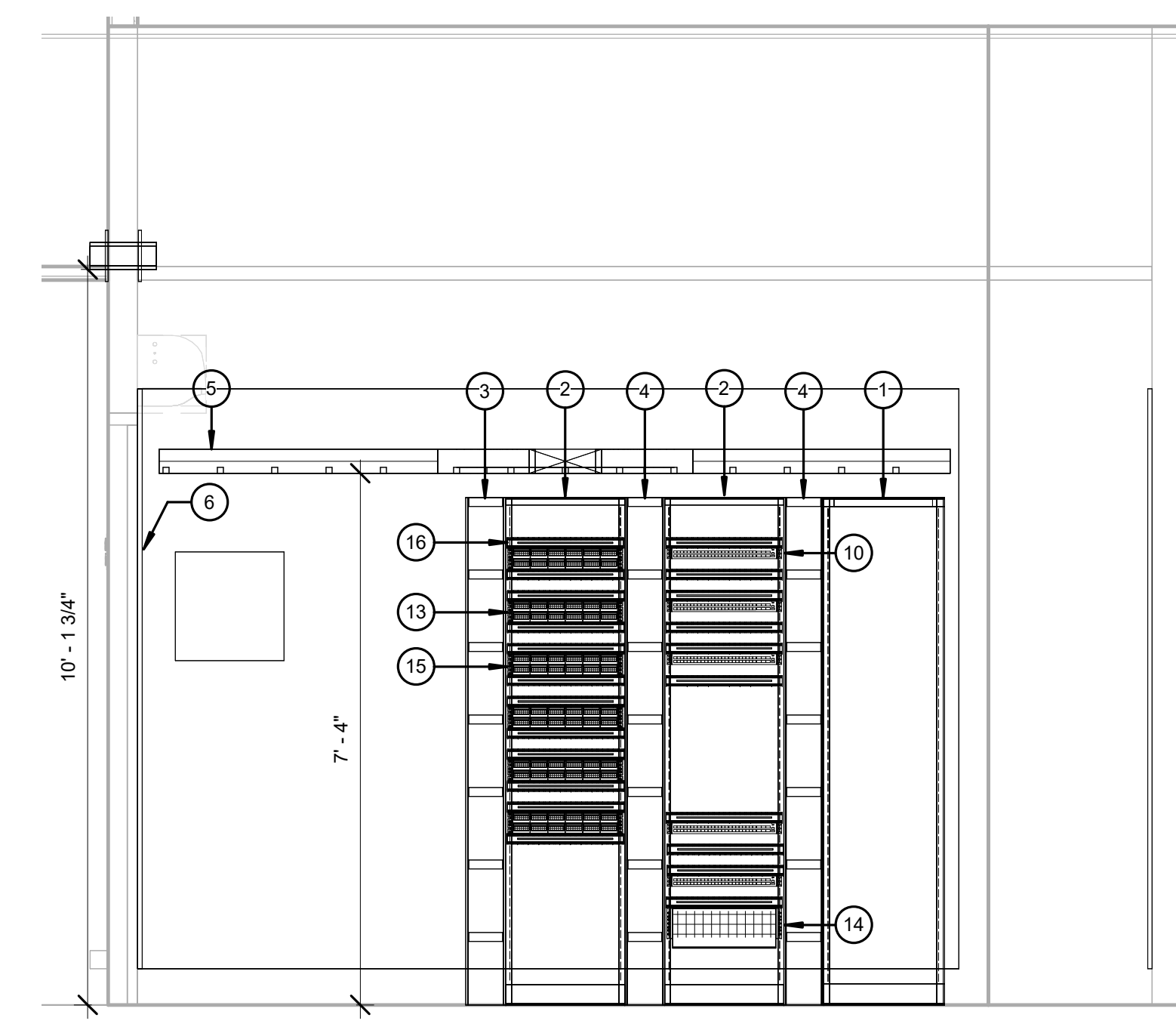
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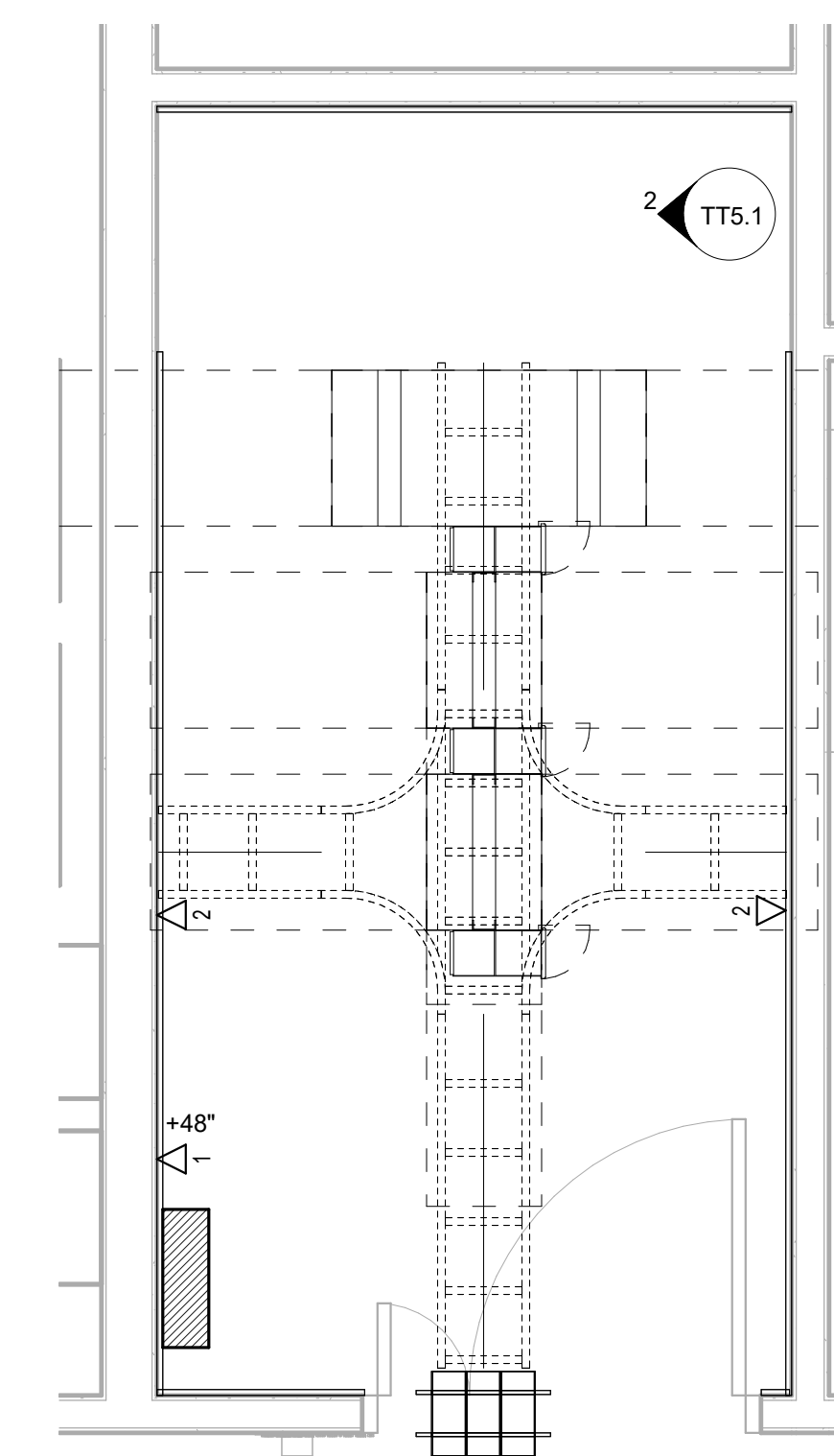
DRAWING NAME
ENLARGED PLANS - TELECOM

FLOOR/SECTION PHASE DRAWING NO.

1 CD TT5.1



2 ELEVATION PLAN - I.T. MDF 1013
SCALE: 1/2" = 1'-0"



1 ENLARGED PLAN - I.T. MDF 1013
SCALE: 1/2" = 1'-0"



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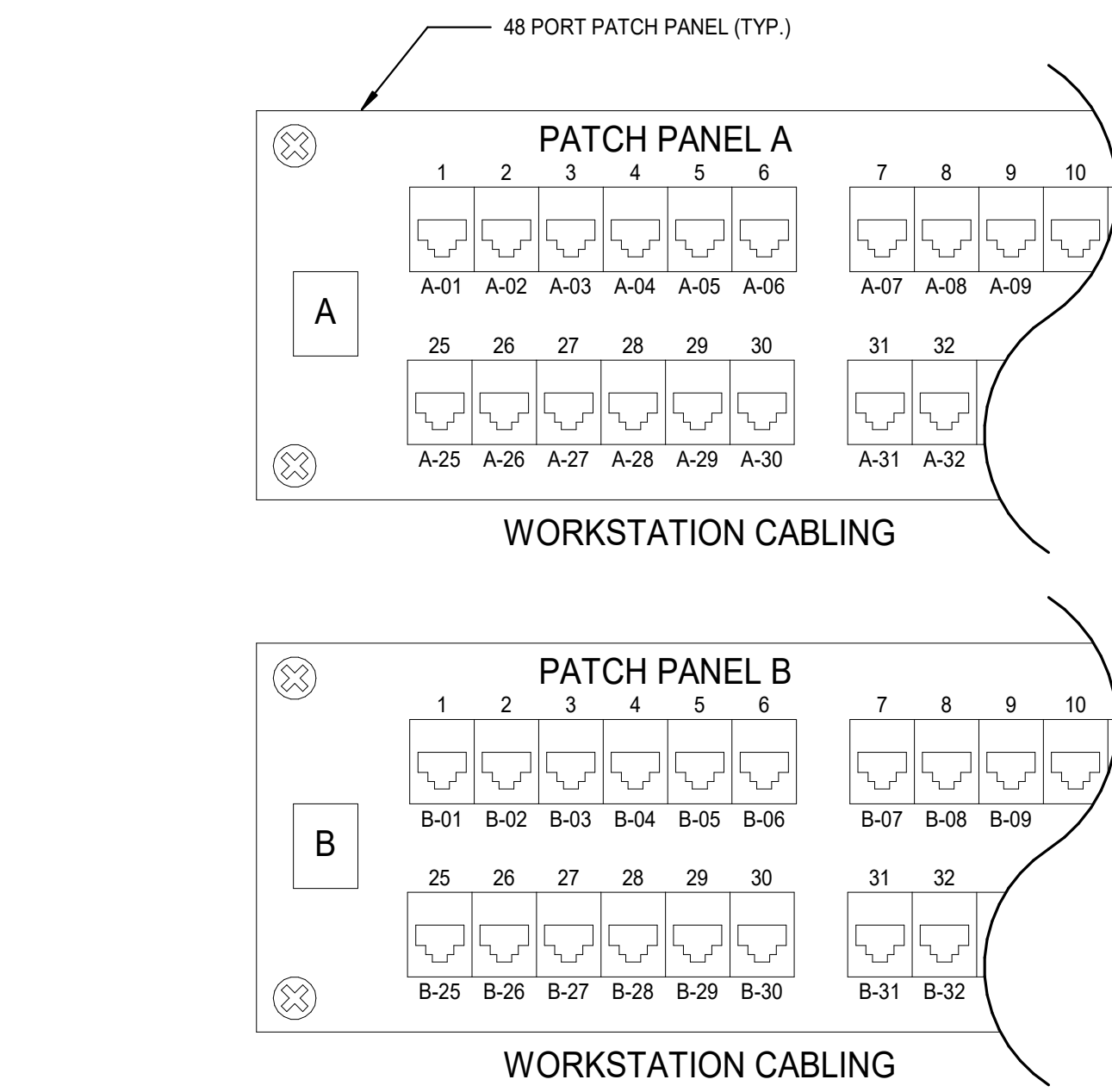
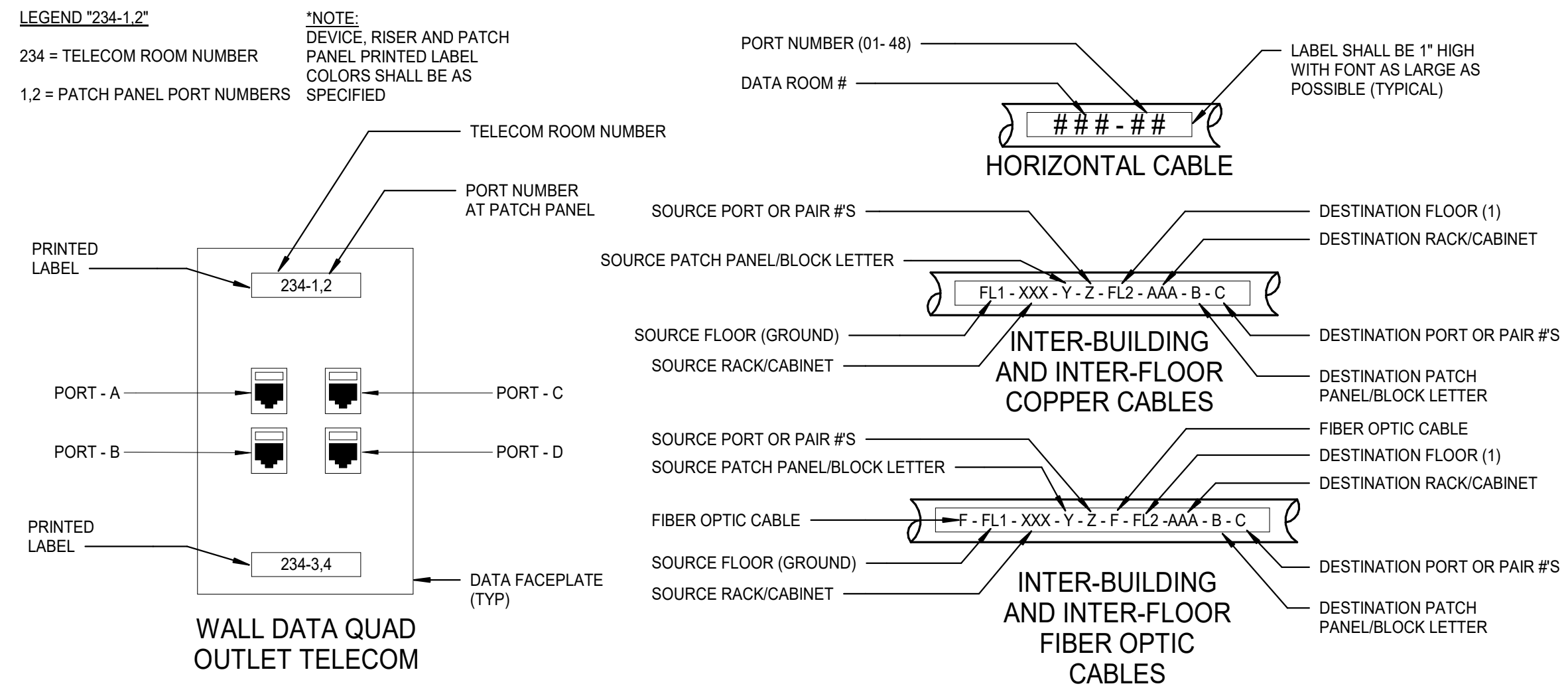
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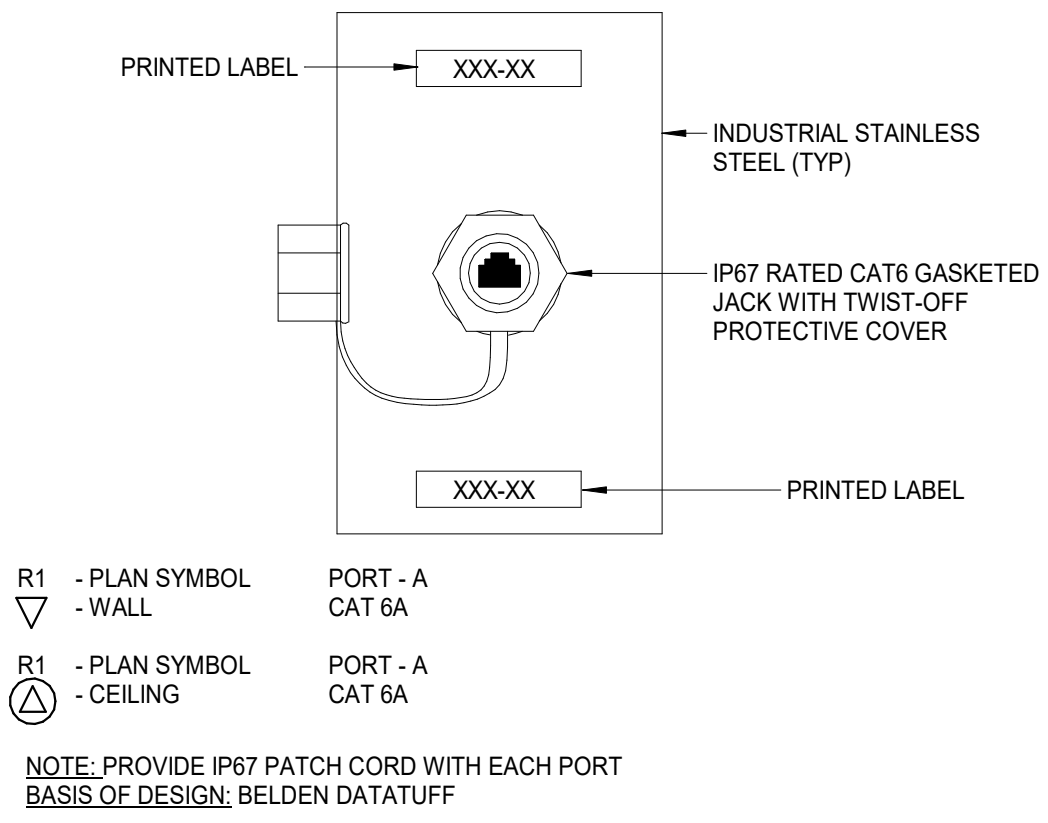
TECHNOLOGY OUTLET DETAILS

FLOOR/SECTION PHASE DRAWING NO.

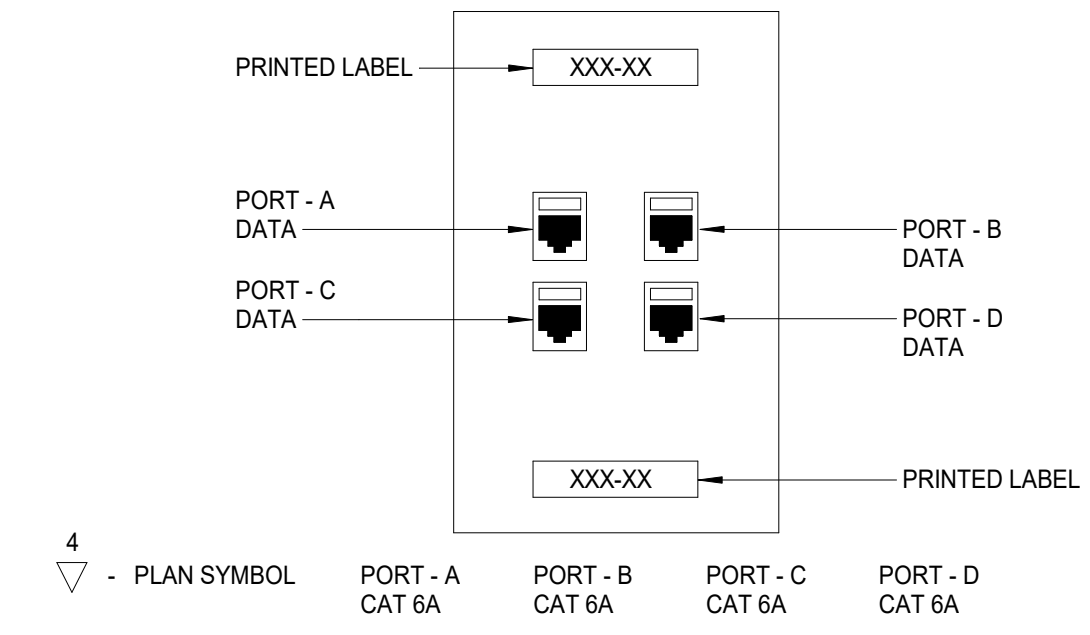
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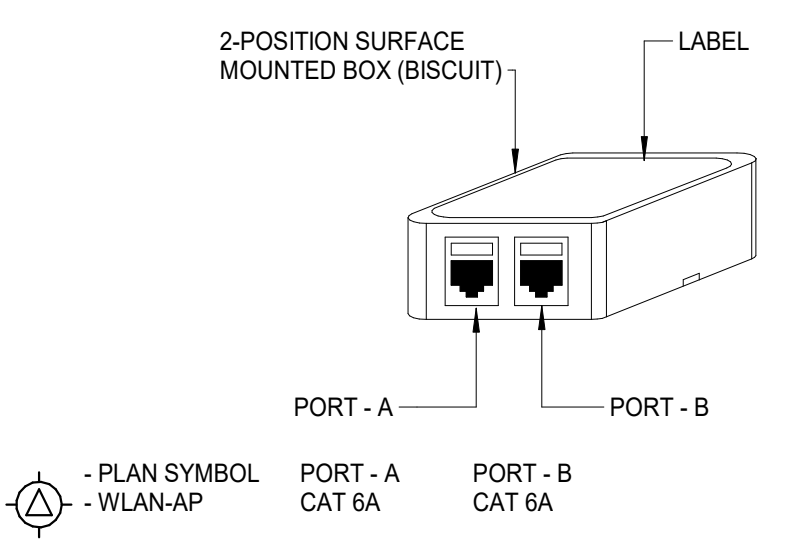
10 DATA LABELING STANDARD
SCALE: NTS



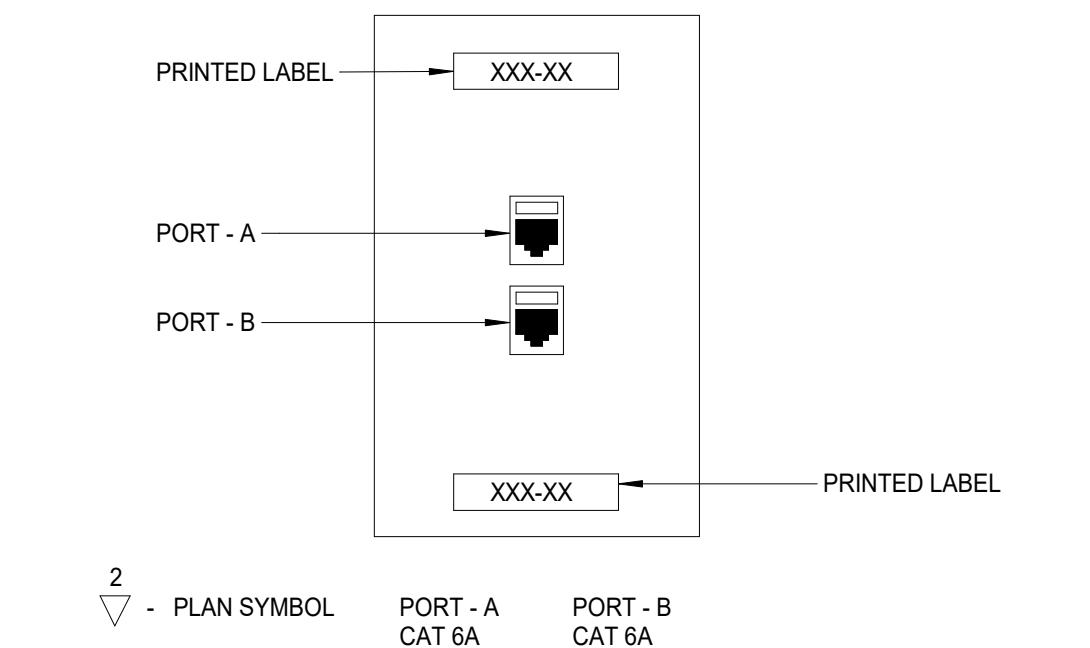
8 1-PORT - RUGGERIZED INDUSTRIAL OUTLET
SCALE: NTS



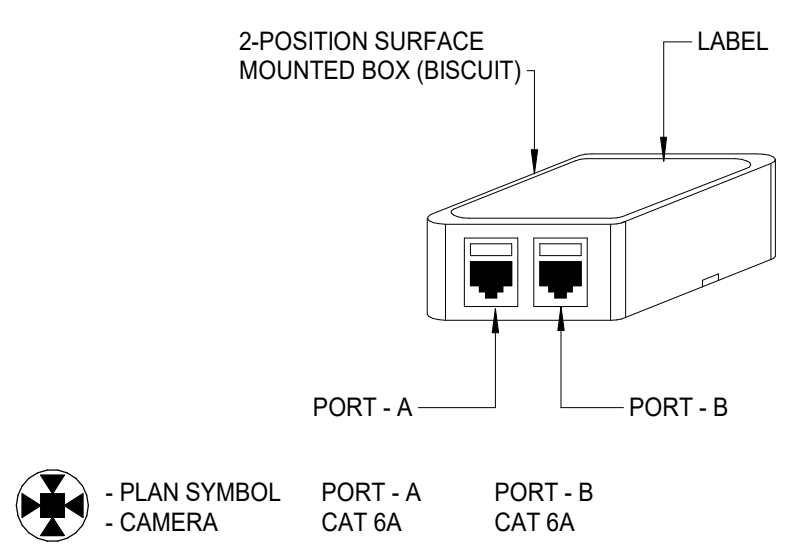
4 OUTLET - 4-PORT - WALL MOUNT DATA OUTLET
SCALE: NTS



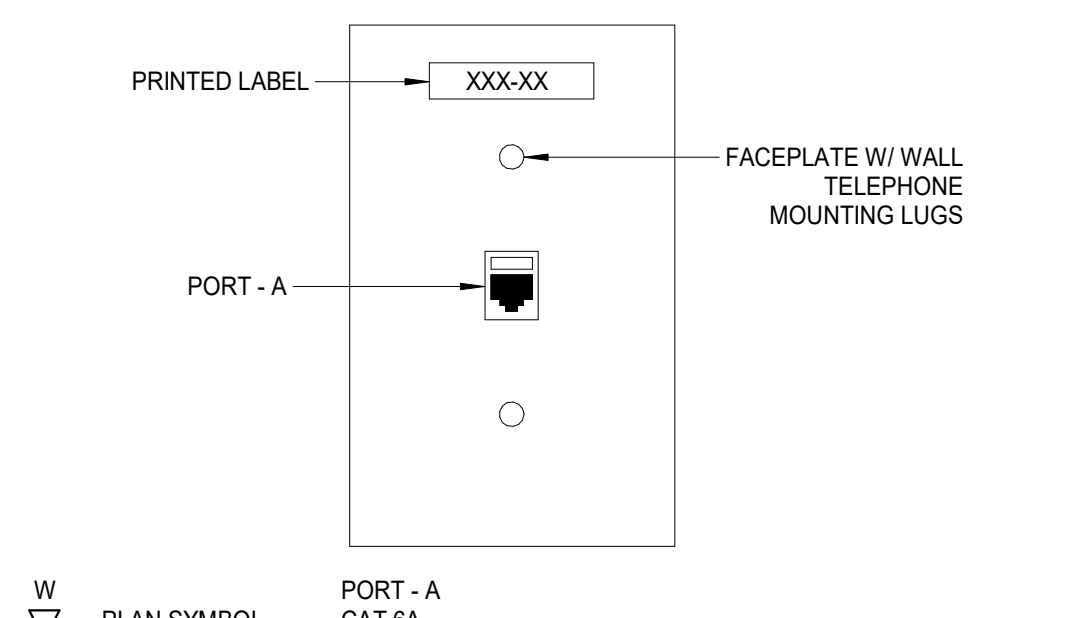
7 2-PORT - CEILING WLAN-AP OUTLET - MODULAR STYLE
SCALE: NTS



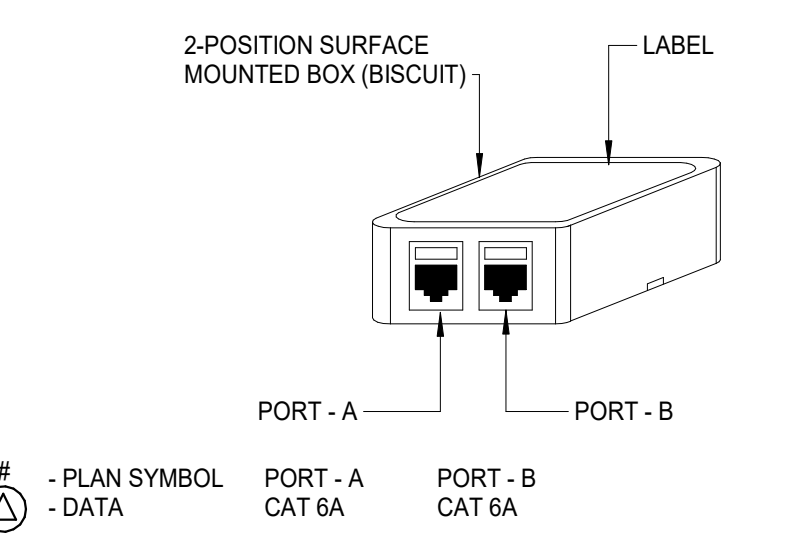
3 2-PORT - WALL MOUNT DATA OUTLET
SCALE: NTS



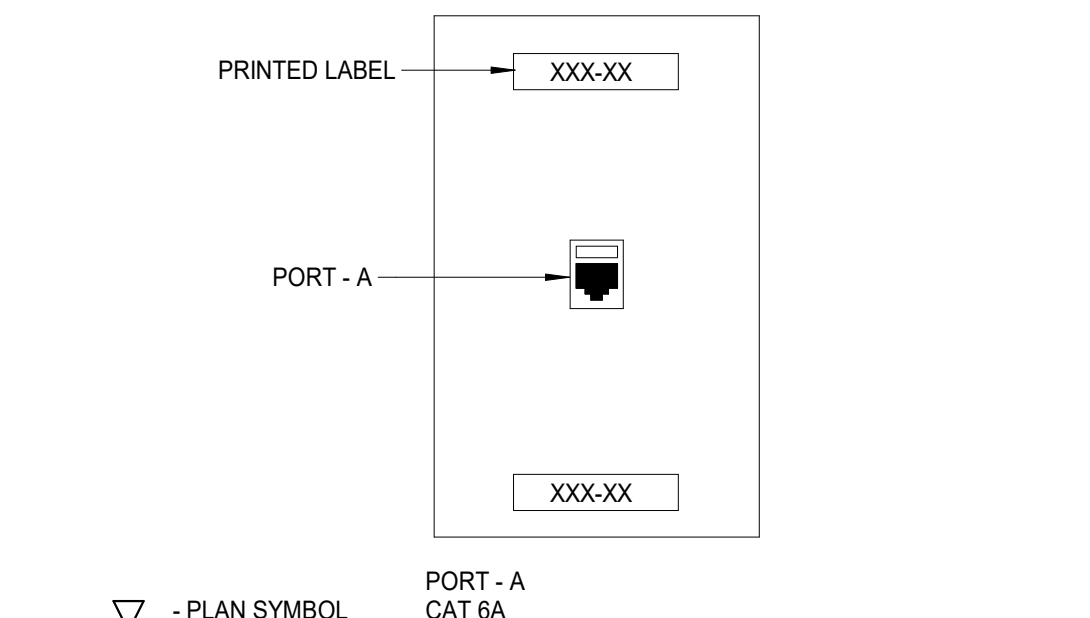
6 OUTLET - 2-PORT - CEILING SURVEILLANCE CAMERA OUTLET
SCALE: NTS



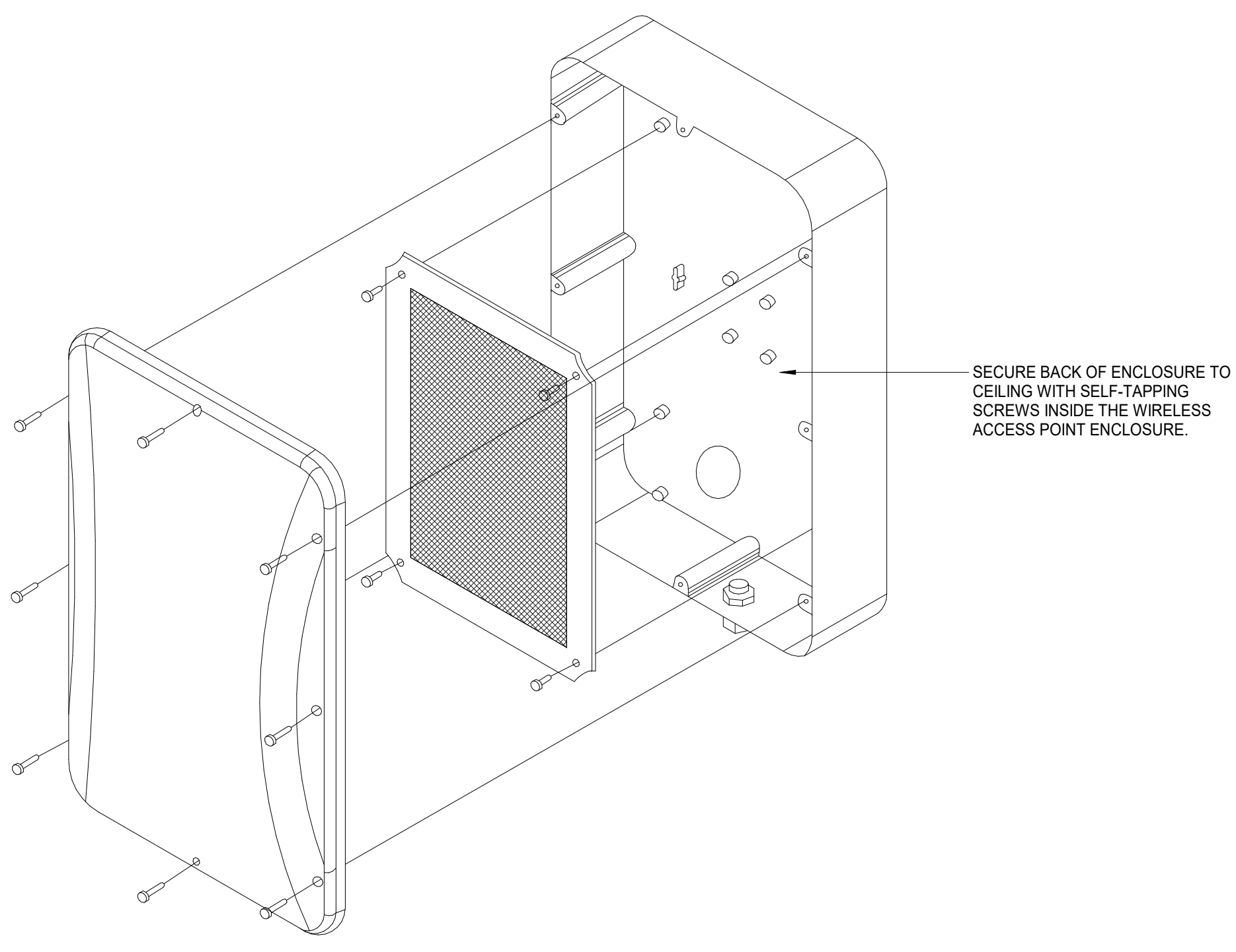
2 OUTLET - 1-PORT - WALL TELEPHONE OUTLET
SCALE: 12" = 1'-0"



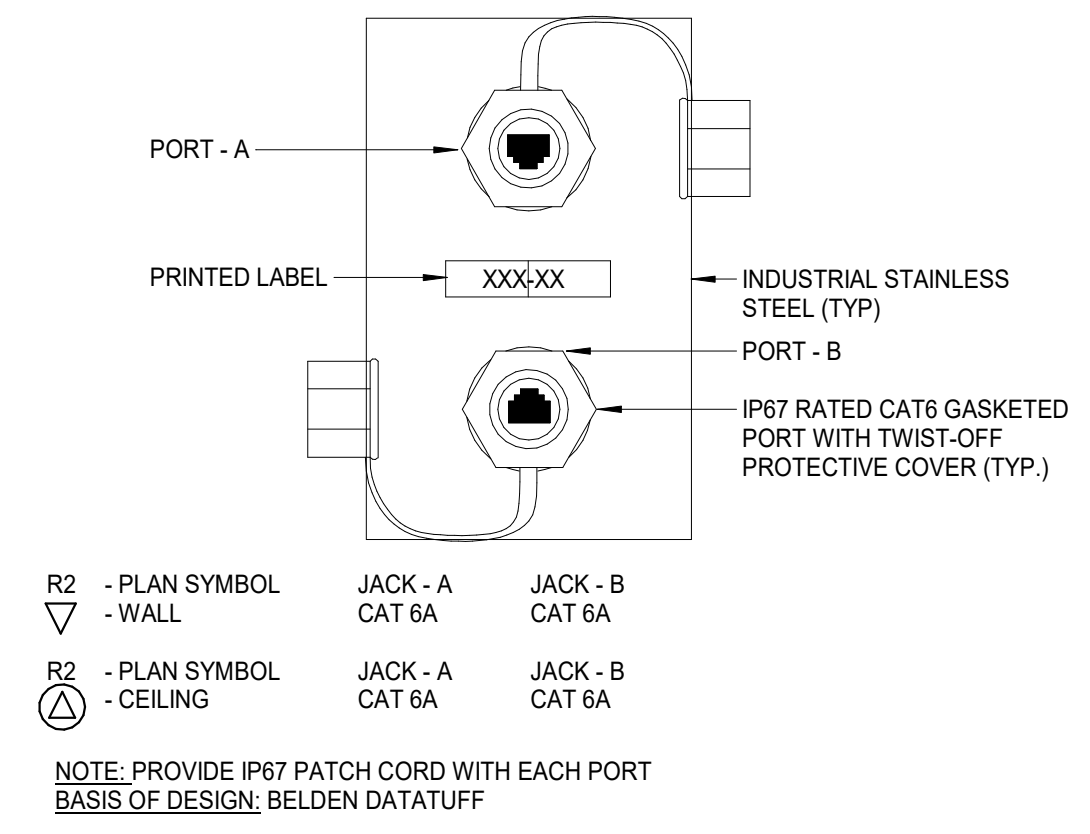
5 2-PORT - CEILING DATA OUTLET - MODULAR STYLE
SCALE: NTS



1 1-PORT - MOUNT DATA OUTLET
SCALE: NTS



12 WIRELESS ACCESS POINT ENVIRONMENTAL ENCLOSURE
SCALE: 12" = 1'-0"



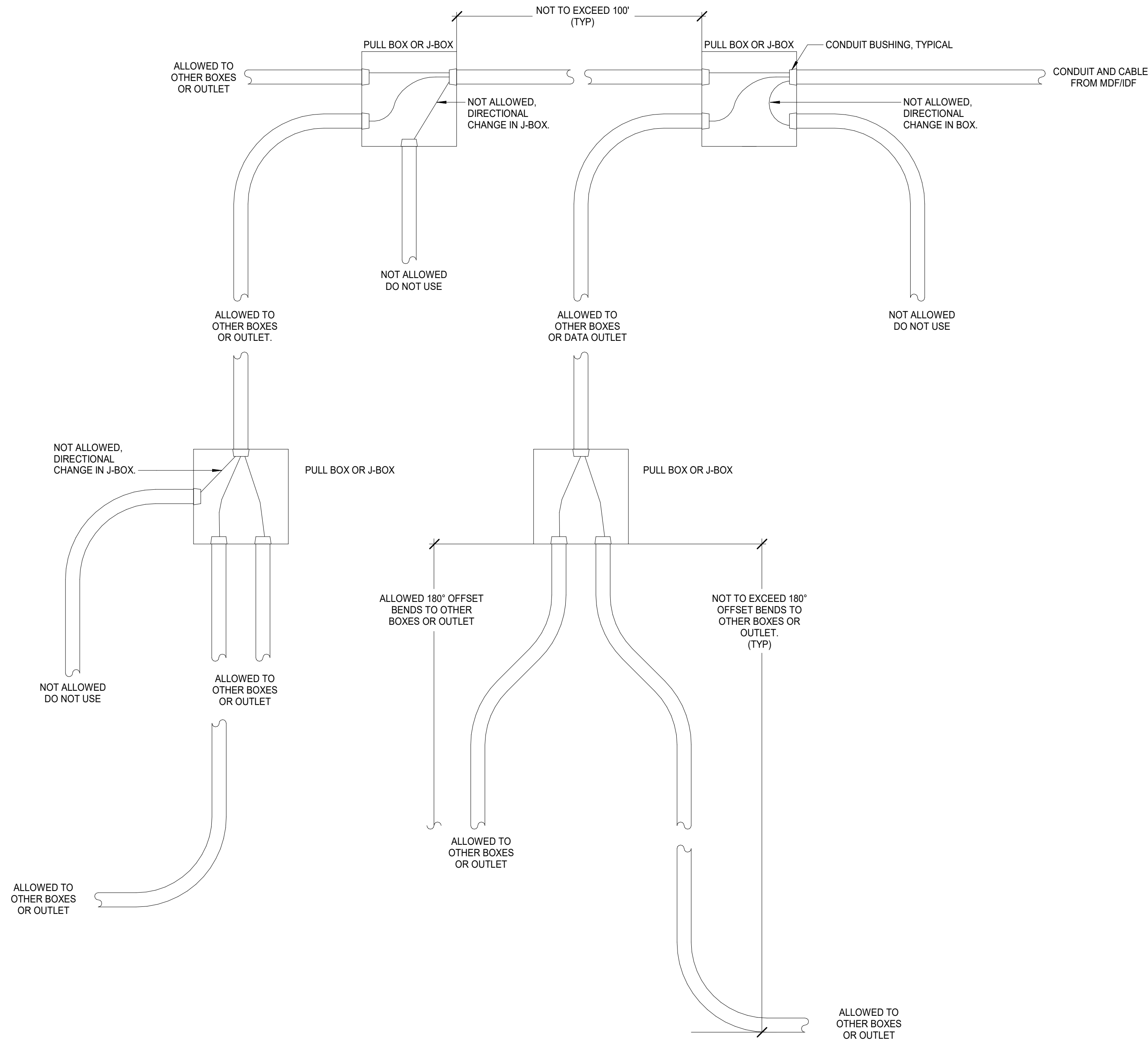
9 2-PORT - RUGGERIZED INDUSTRIAL OUTLET
SCALE: NTS



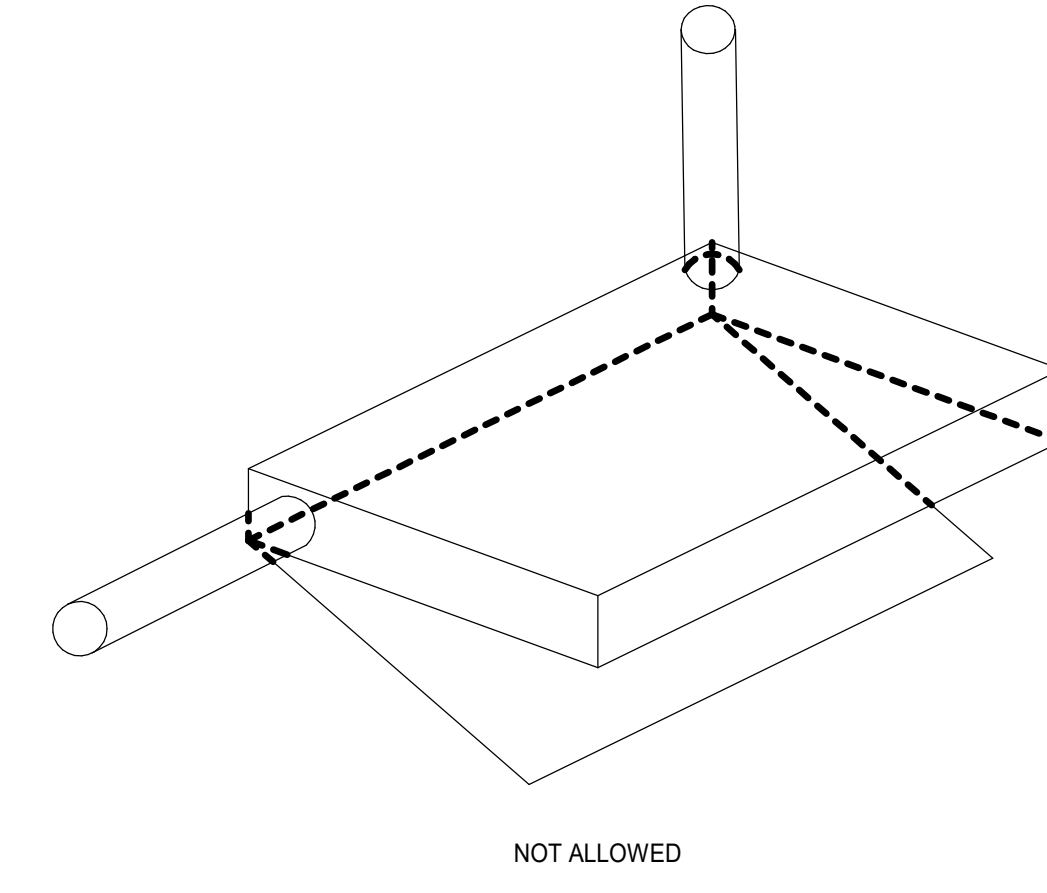
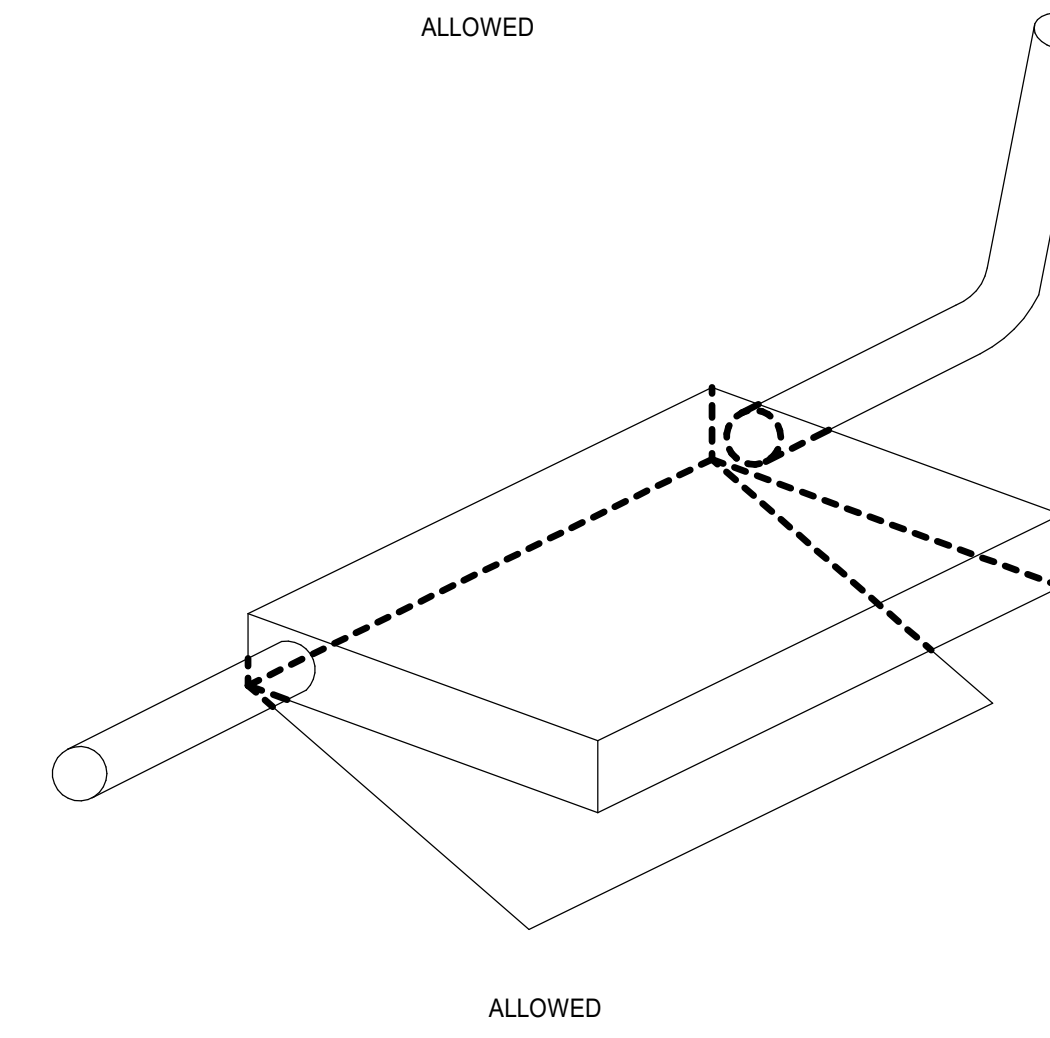
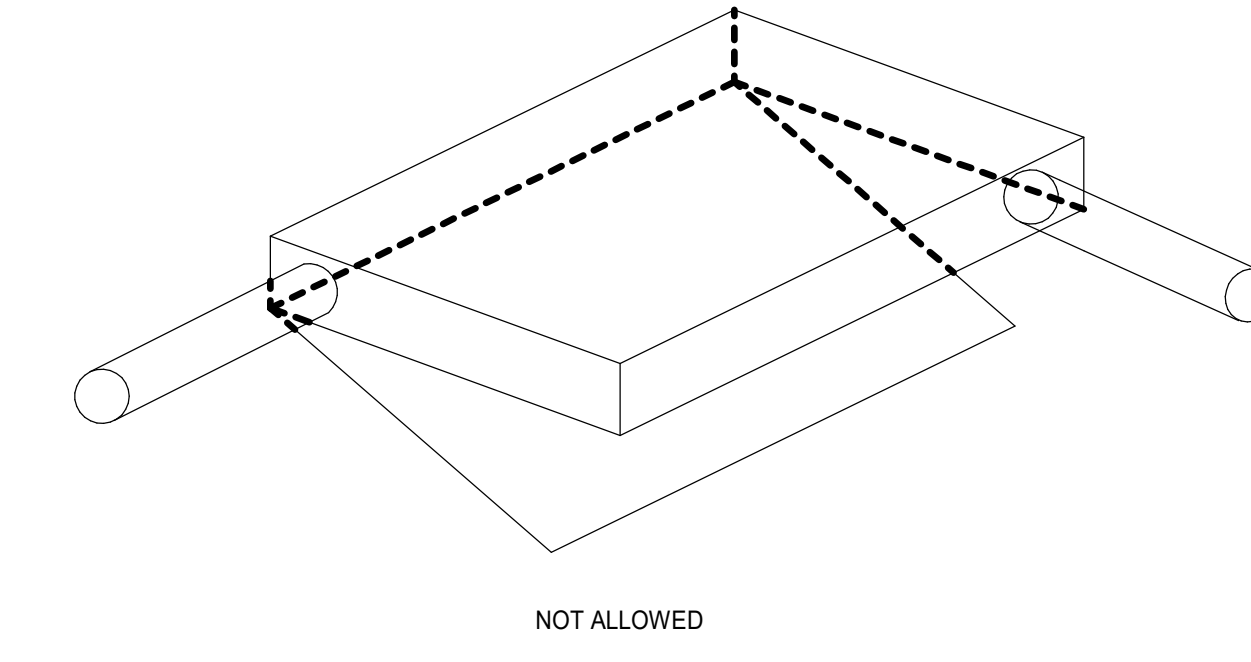
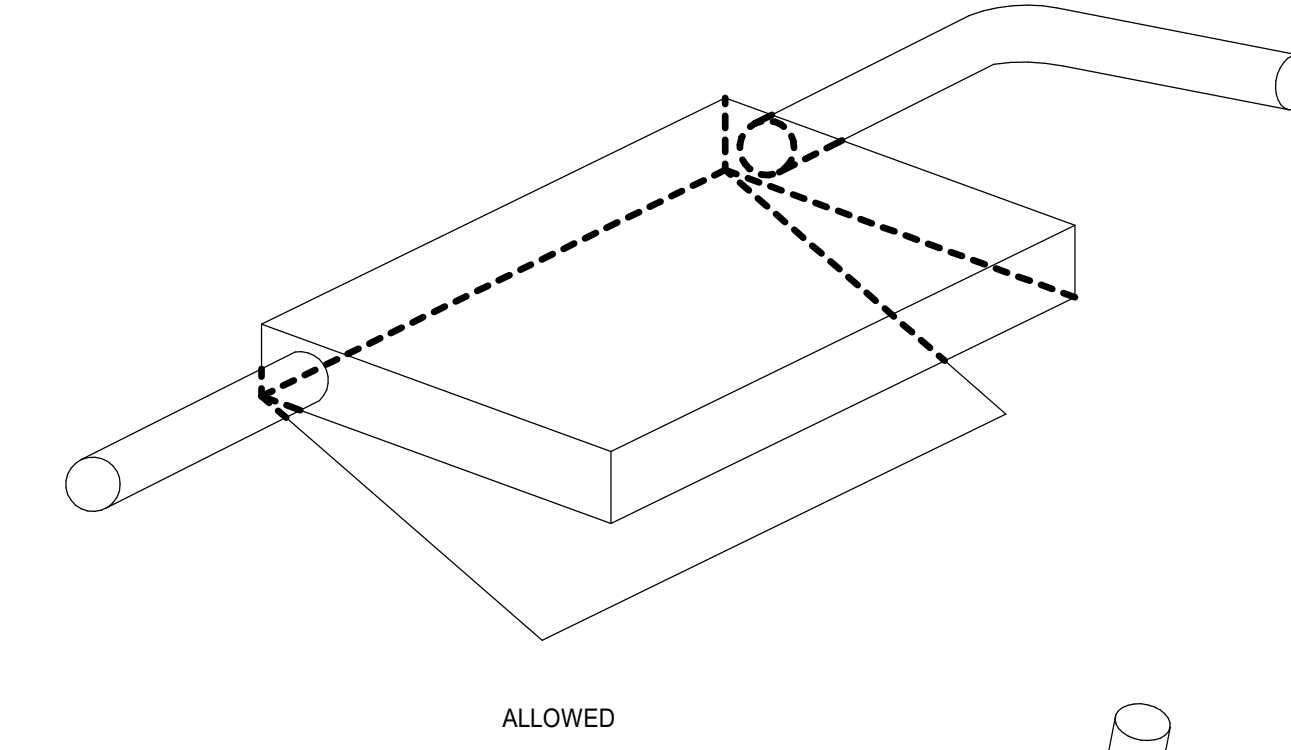
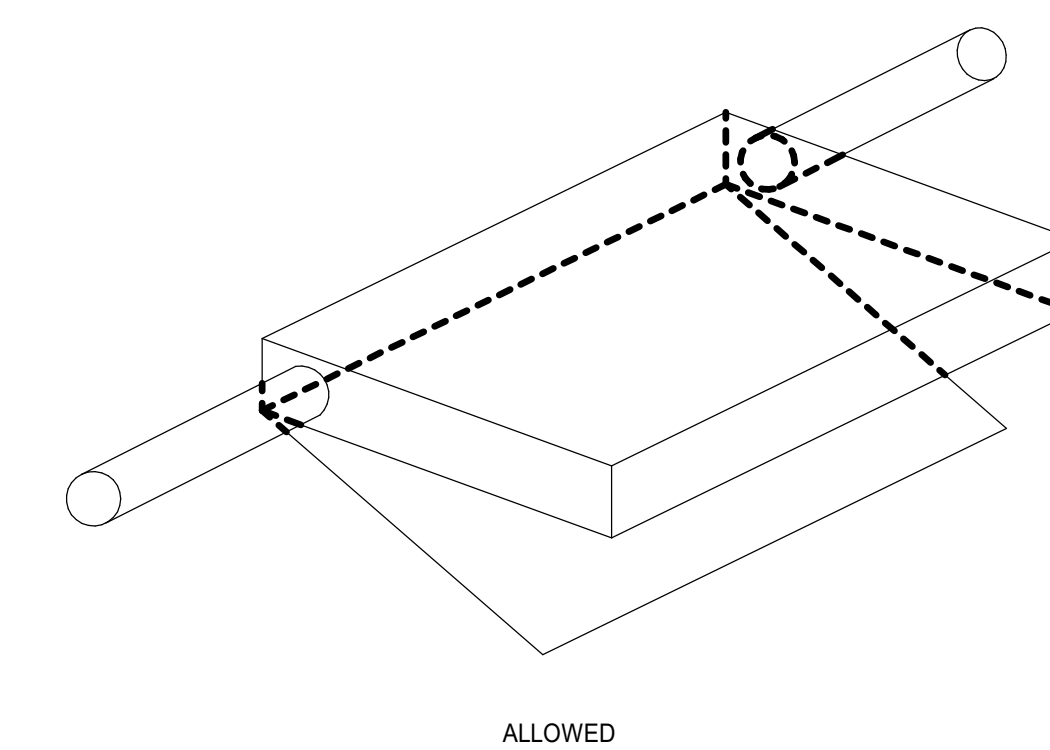
GENERAL NOTES:

- UNLESS OTHERWISE NOTED, MINIMUM CONDUIT AND PULL BOX SIZES SHALL BE PER NEC. PULL BOX SIZING SHALL BE BASED UPON QUANTITY AND SIZE OF CONDUITS ENTERING AND EXITING THE ENCLOSURE.
- PULL BOXES SHALL NOT BE USED IN LIEU OF ELBOWS, REGARDLESS OF CONDUIT SIZE.
- PULL BOXES SHALL BE USED FOR PULL THRU CABLING ONLY AND SHALL NOT BE USED FOR DIRECTIONAL CHANGES.
- UNLESS OTHERWISE NOTED, CONTINUOUS LENGTH OF CONDUIT RUNS SHALL NOT EXCEED 100'-0" WITHOUT A PULL BOX.
- UNLESS OTHERWISE NOTED, CONTINUOUS CONDUIT RUNS SHALL NOT HAVE MORE THAN 180 DEGREES OF TOTAL BENDS BETWEEN PULL BOXES.
- U-BENDS OR 180 DEGREE BENDS ARE NOT PERMITTED IN CONTINUOUS CONDUIT RUNS.
- MANUFACTURED LONG RADIUS ELBOWS SHALL BE UTILIZED, WHERE FIELD FABRICATED BENDS ARE INSTALLED, THEY SHALL MEET ALL REQUIRED MINIMUM BEND RADII.
- CONDULET FITTINGS SHALL NOT BE PERMITTED IN CONDUIT SYSTEMS FOR COPPER AND FIBER CABLING ASSOCIATED WITH TECHNOLOGY SYSTEMS.
- USE SMOOTH BUSHINGS ON ALL CONDUIT CONNECTORS.

PULL BOX, J-BOX, AND CONDUIT PATHWAY RESTRICTIONS



CONDUIT SIZE in.	WIDTH in.	LENGTH in.	DEPTH in.	ADD CDT in.
1"	4"	16"	3"	2"
1 - 1/4"	6"	16"	3"	3"
1 - 1/2"	8"	24"	4"	4"
2"	8"	24"	4"	6"
2 - 1/2"	10"	36"	6"	6"
3"	12"	36"	6"	6"
3 - 1/2"	12"	48"	8"	8"
4"	12"	48"	12"	8"



2 BOX AND CONDUIT CONFIGURATION
SCALE: 3" = 1'-0"

1 PULLBOX FOR CONDUIT
SCALE: 3/4" = 1'-0"

TRADE SIZE	CONDUIT CABLE FILL DETAILS		CABLE DIAMETER						
	METRIC DESIGNATOR	CONDUIT ID MM (IN)	4.6 MM (0.18 IN)	5.0 MM (0.20 IN)	6.0 MM (0.24 IN)	7.0 MM (0.28 IN)	8.0 MM (0.31 IN)	9.0 MM (0.35 IN)	
1/2	16	15.8 (0.622)	3	2	2	1	1	0	
3/4	21	20.93 (0.824)	6	5	3	2	2	2	
1	27	26.65 (1.049)	10	8	5	4	3	3	
1 1/4	35	35.05 (1.380)	17	14	9	7	5	5	
1 1/2	41	40.89 (1.610)	24	19	13	9	8	8	
2	53	52.5 (2.067)	39	32	22	16	13	13	
2 1/2	63	62.71 (2.469)	56	45	31	23	19	19	
3	78	77.93 (3.068)	87	70	49	36	29	29	
3 1/2	91	90.12 (3.548)	116	94	65	48	39	39	
4	103	102.3 (4.026)	150	121	84	62	50	50	

KEY PLAN

PRINCIPAL
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RESEARCH PLANNER
STEPH VARGAS
Electrical Engineer
KYLE KAVANAUGH, PE.
Electrical Model Lead
SEAN WIECZOREK

REVISIONS

NO.	BY	DESCRIPTION	DATE
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B		DESIGN DEVELOPMENT	05.24.2024
A		50% DD SET	05.10.2024

**SOUTHERN NEVADA
NEW BSL-3 LABORATORY
BUILDING**

700 South M.L.K. Blvd Las Vegas, NV 89106

DRAWN BY: BQ DATE: 10.11.2024

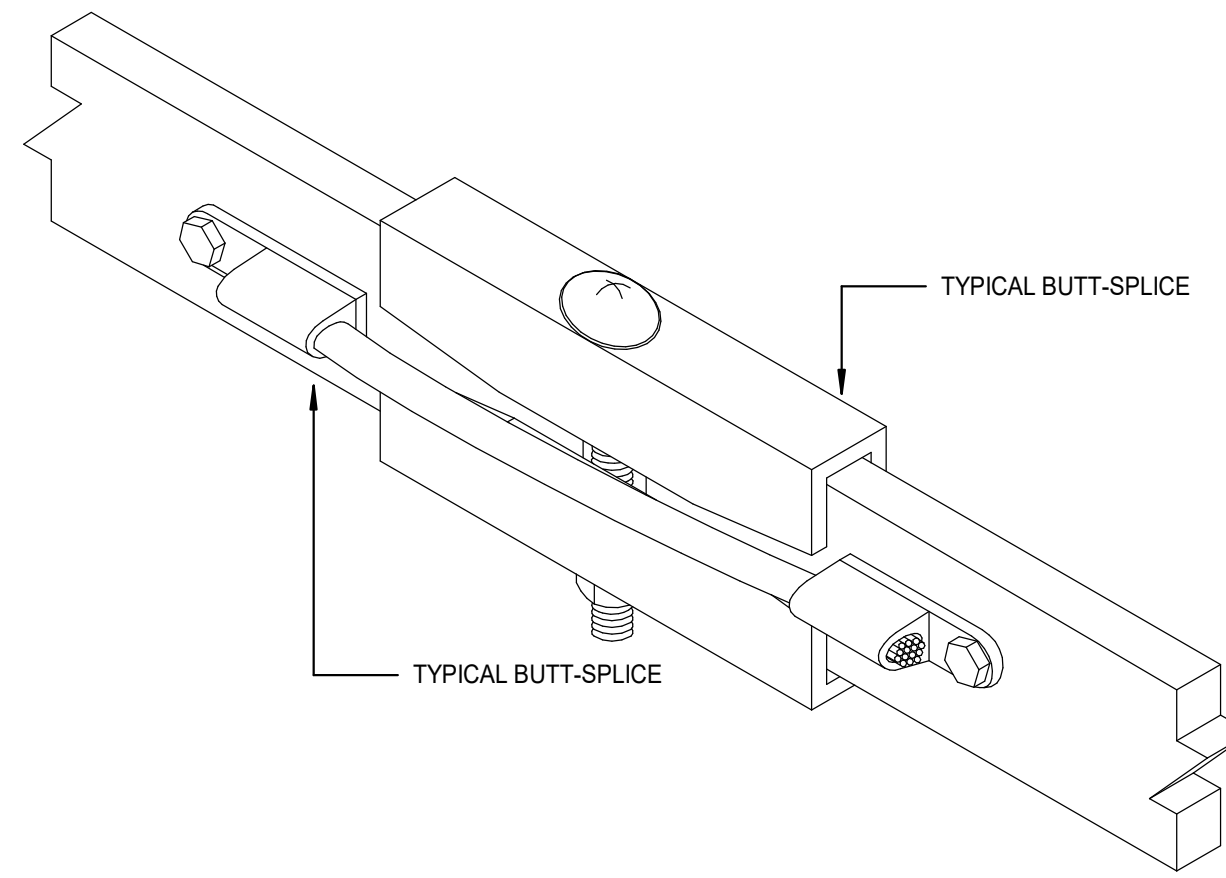
PROJECT NO. 20230523 SCALE

DRAWING NAME

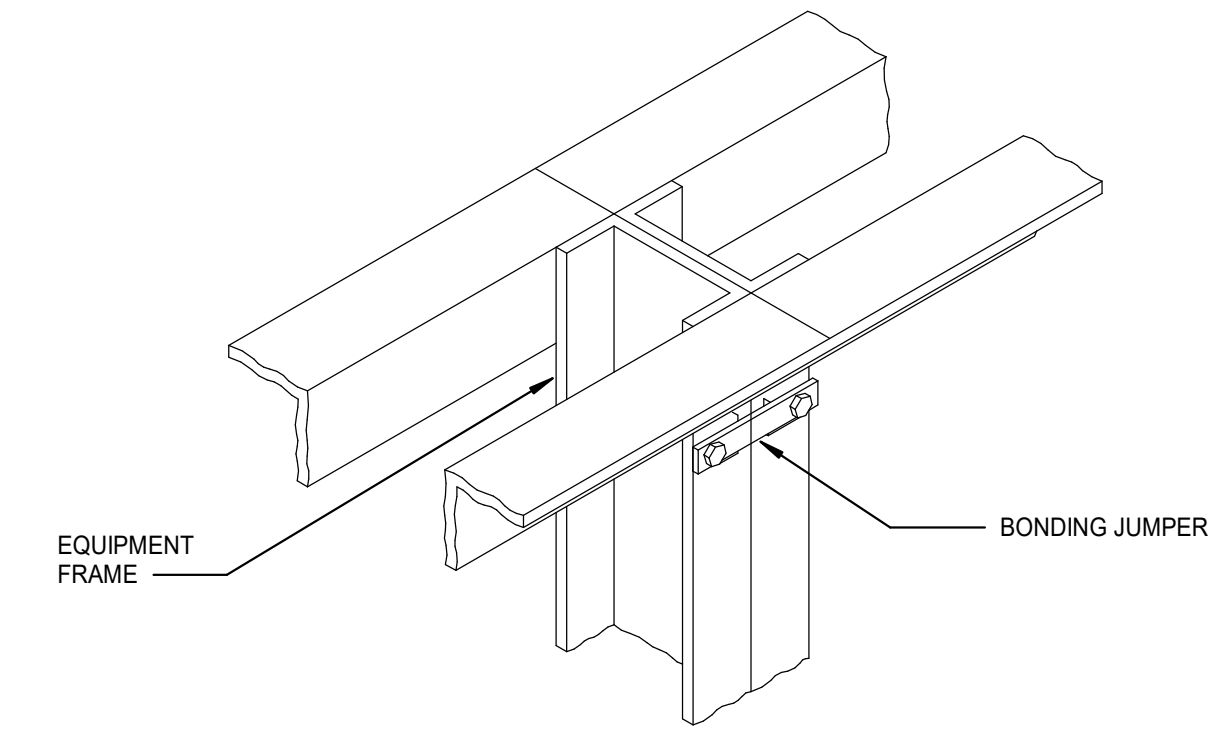
TECHNOLOGY PULL BOX & CONDUIT DETAILS

FLOOR/SECTION PHASE DRAWING NO.

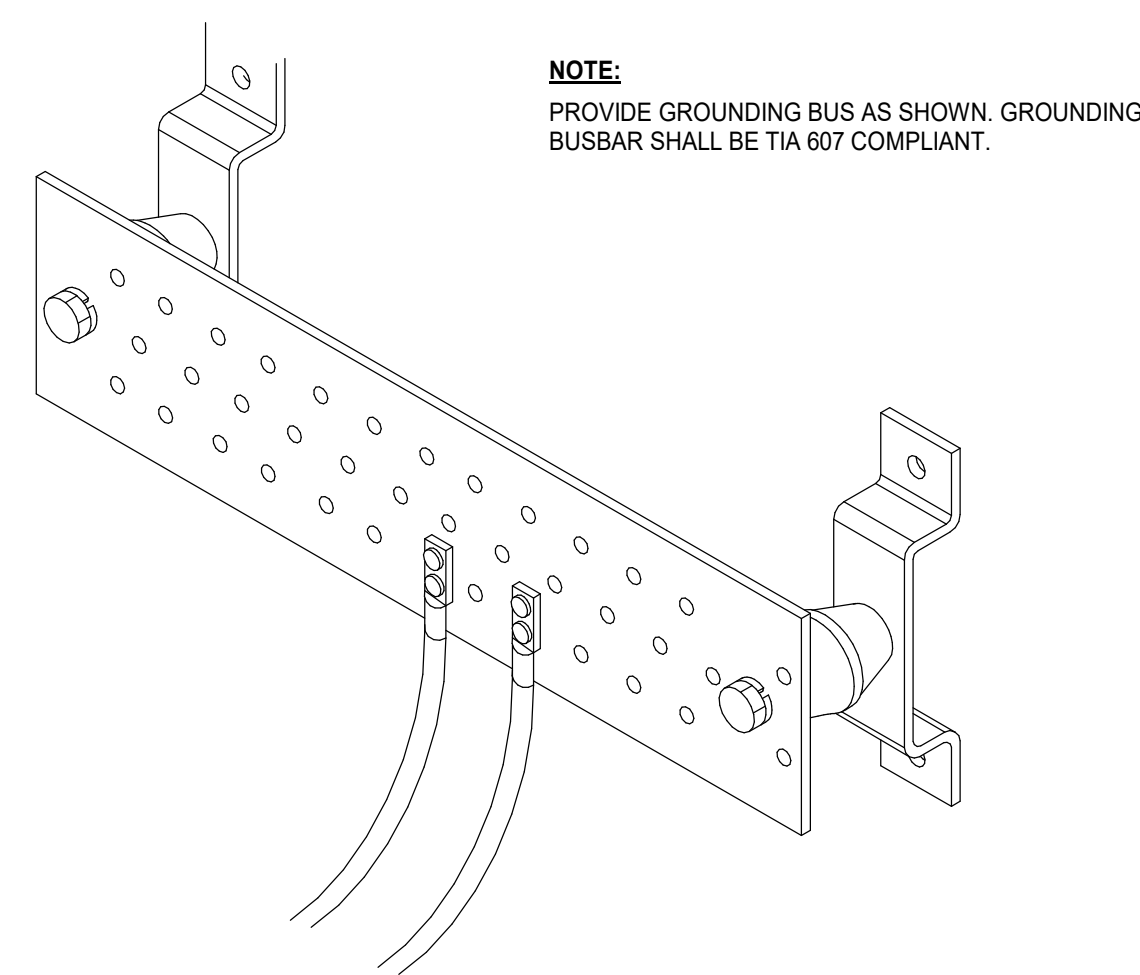
CD T6.2



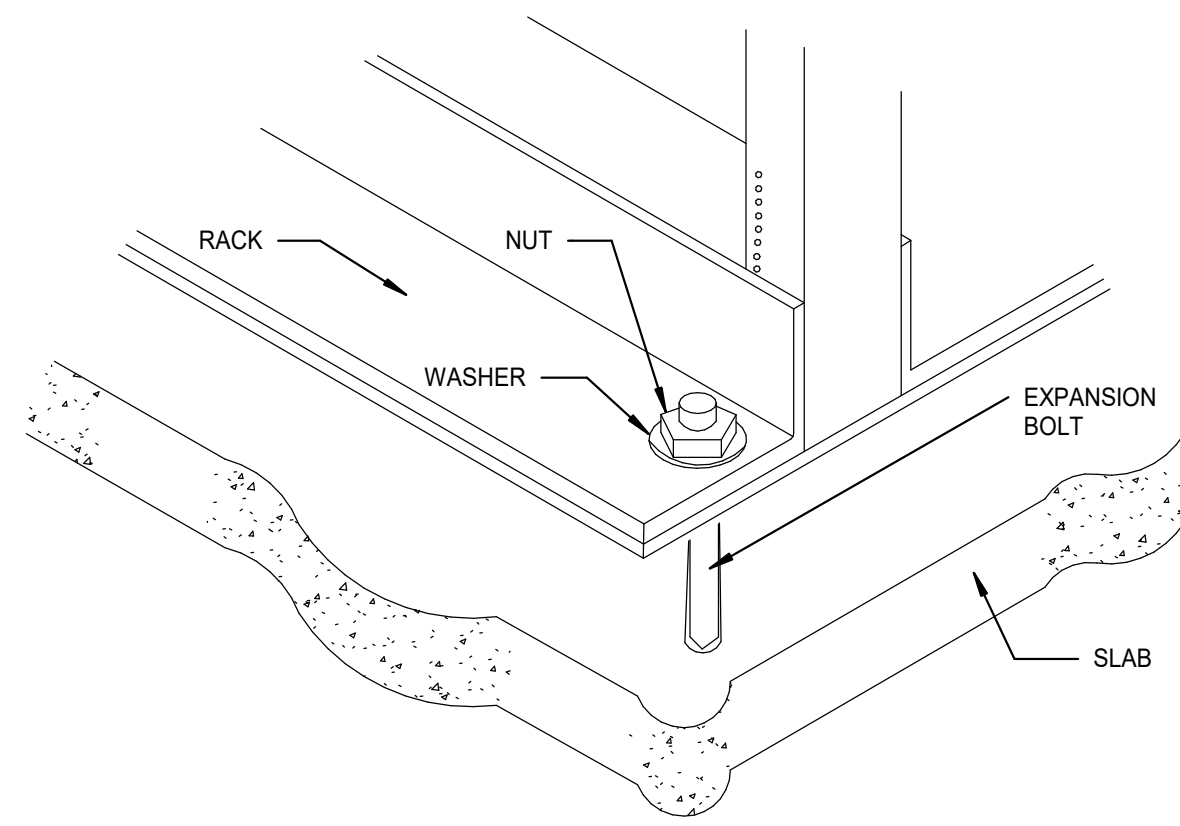
6 LADDER RACK BONDING - BUTT SPLICE
SCALE: NTS



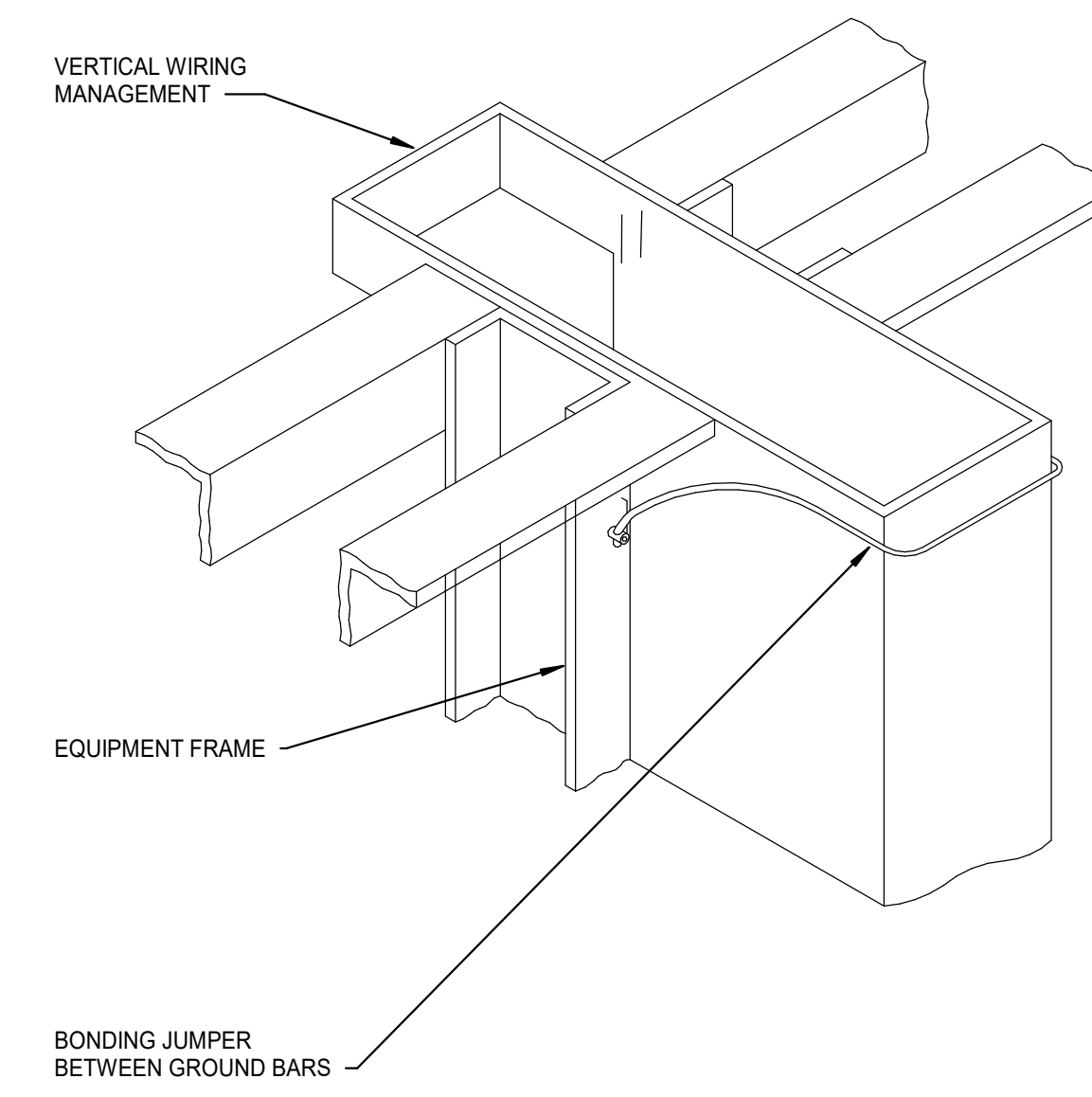
3 GROUND BAR SPLICE
SCALE: NTS



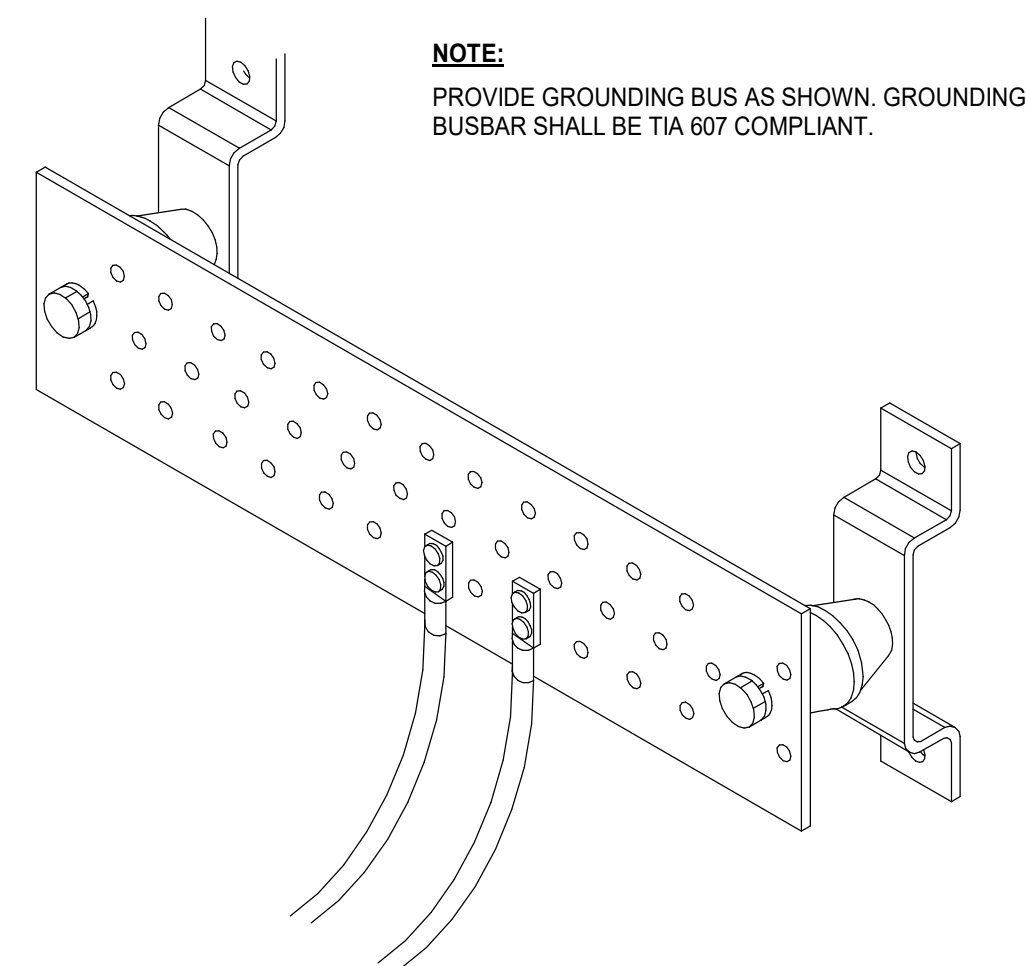
8 IDF GROUND BUS BAR
SCALE: NTS



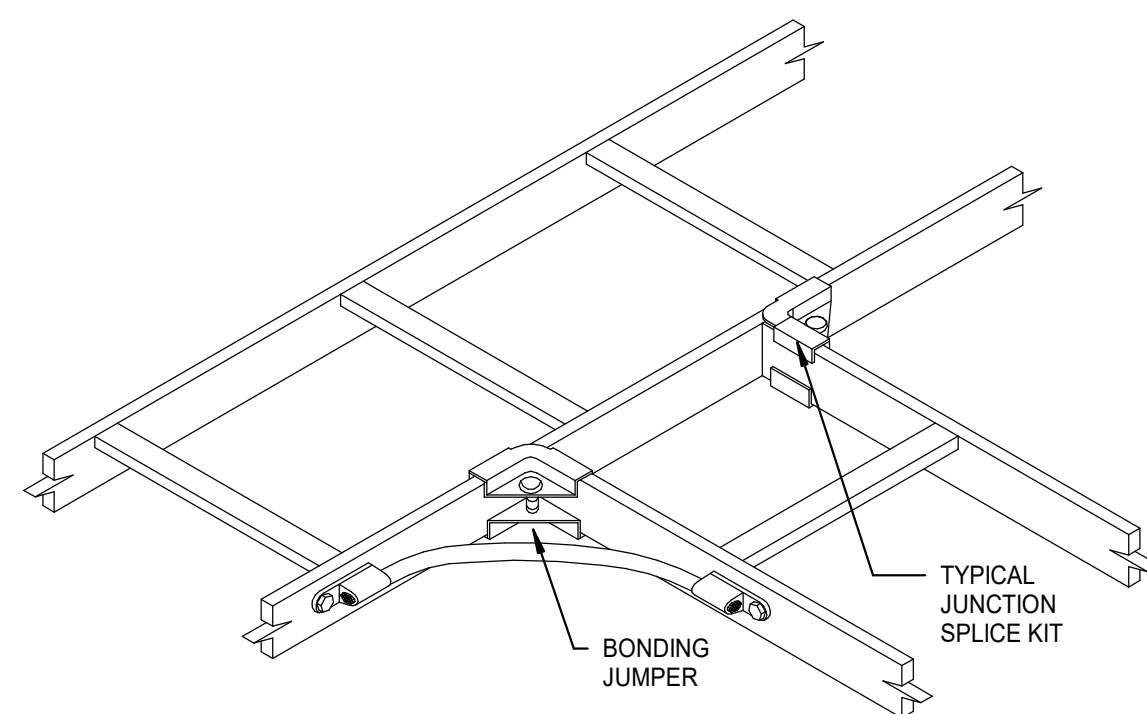
5 TYPICAL RACK INSTALLATION ON SLAB
SCALE: NTS



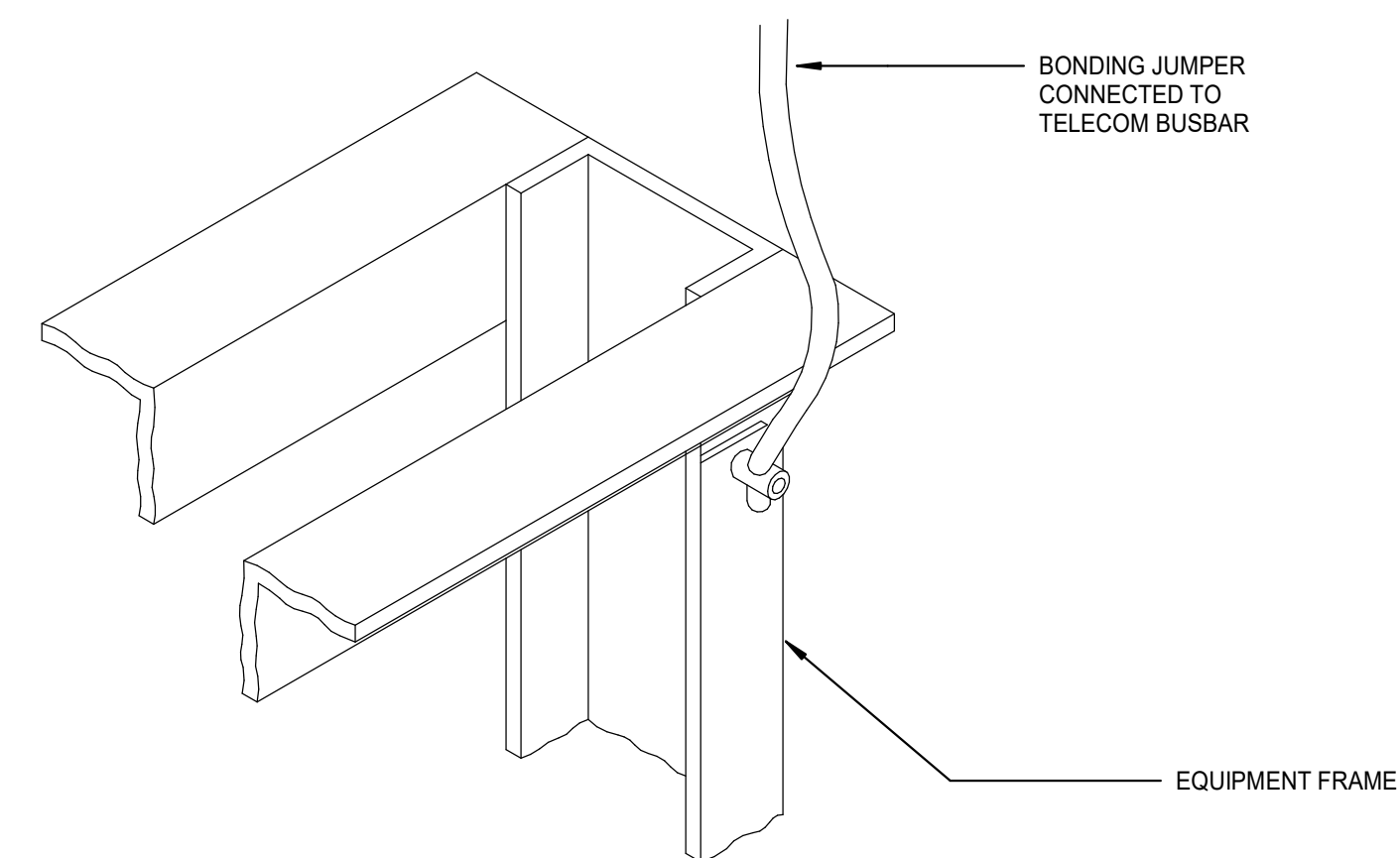
2 GROUND BAR JUMPER SPLICE
SCALE: NTS



7 MDF GROUND BUS BAR
SCALE: NTS



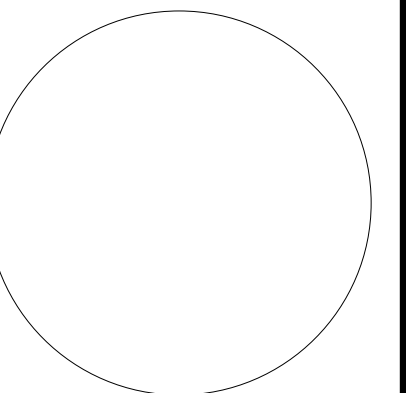
4 LADDER RACK BONDING - JUNCTION SPLICE
SCALE: NTS



1 EQUIPMENT RACK GROUND
SCALE: NTS

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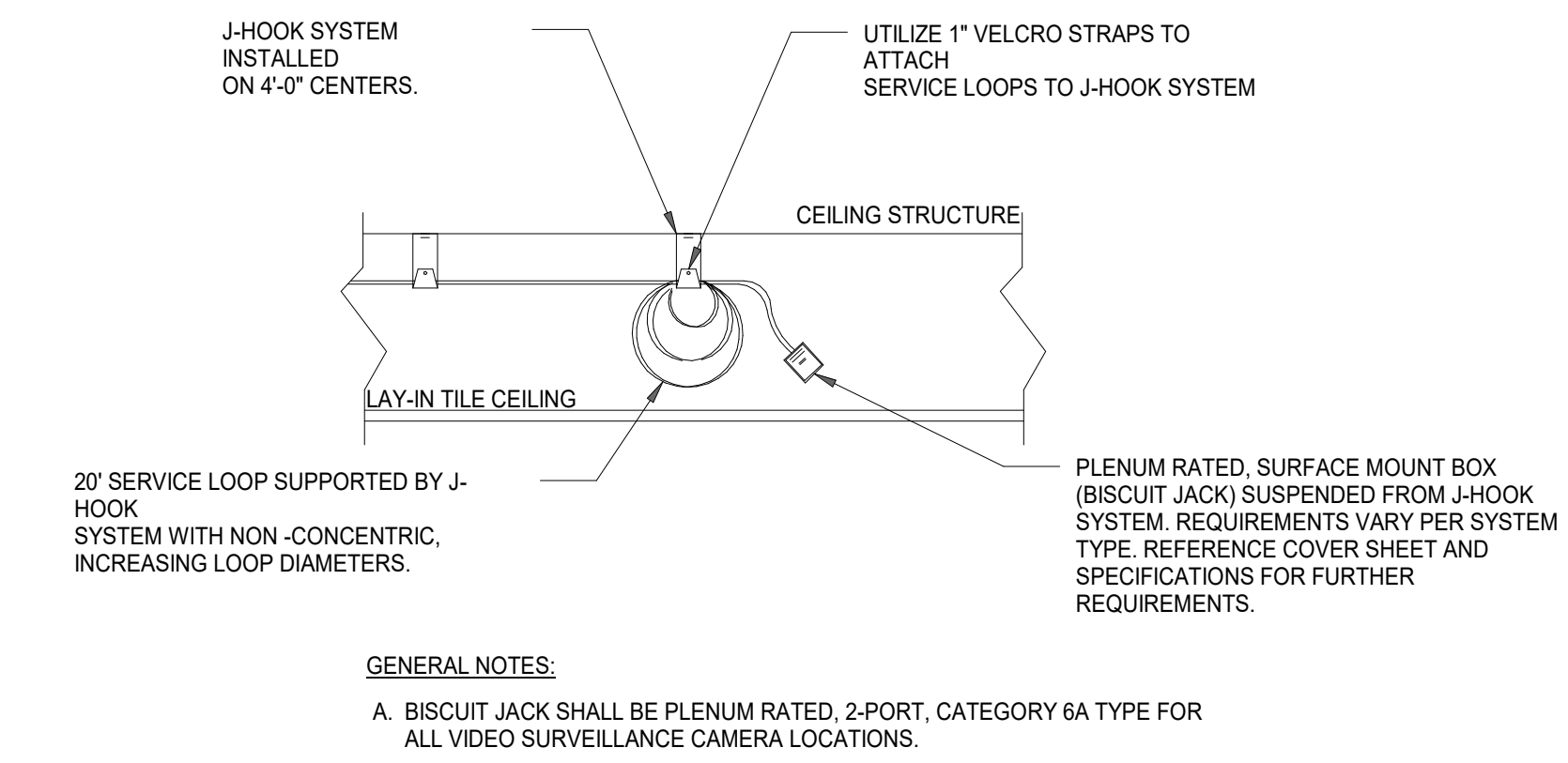
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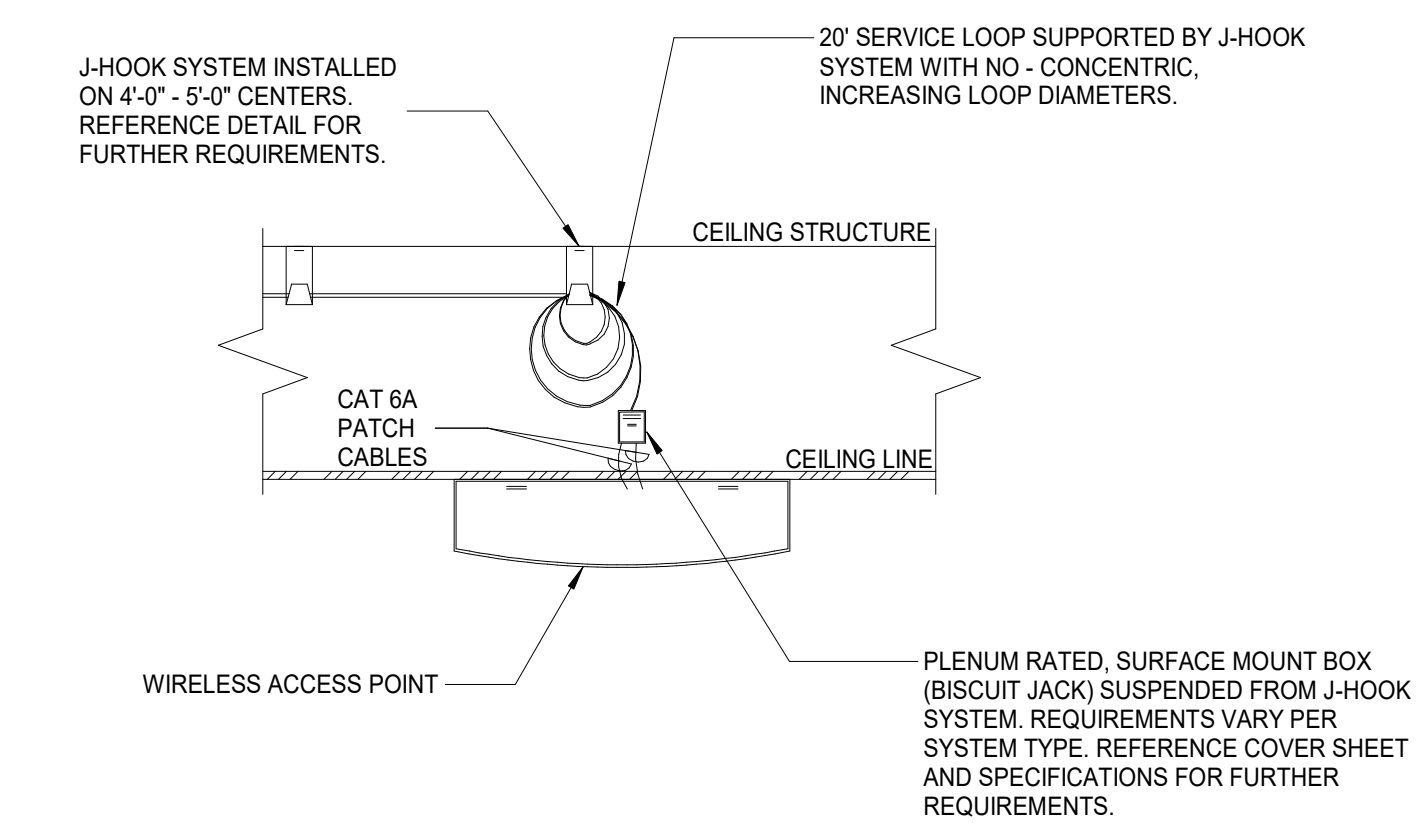
TECHNOLOGY MDF/IDF DETAILS

FLOOR/SECTION PHASE DRAWING NO.

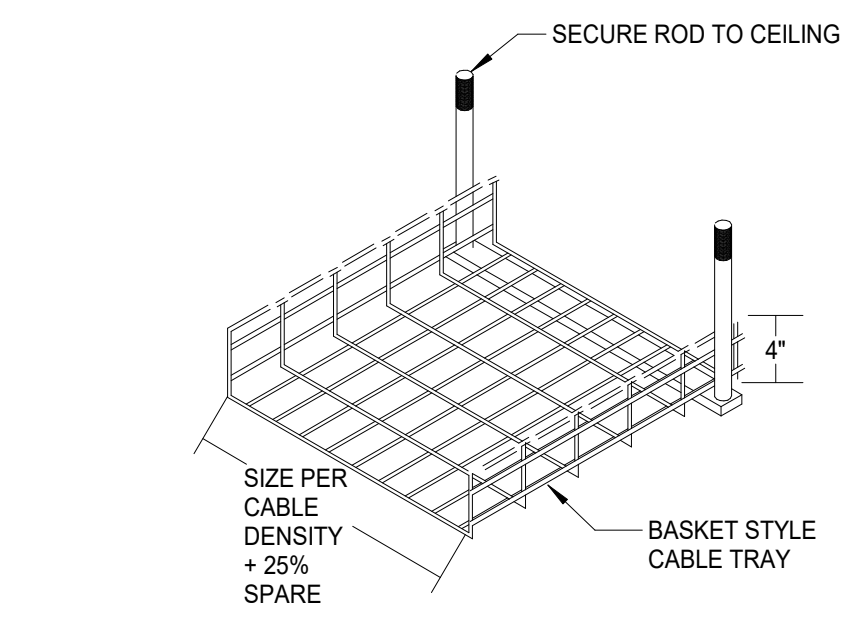
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4 VIDEO SURVEILLANCE - SUSPENDED BISCUIT JACK

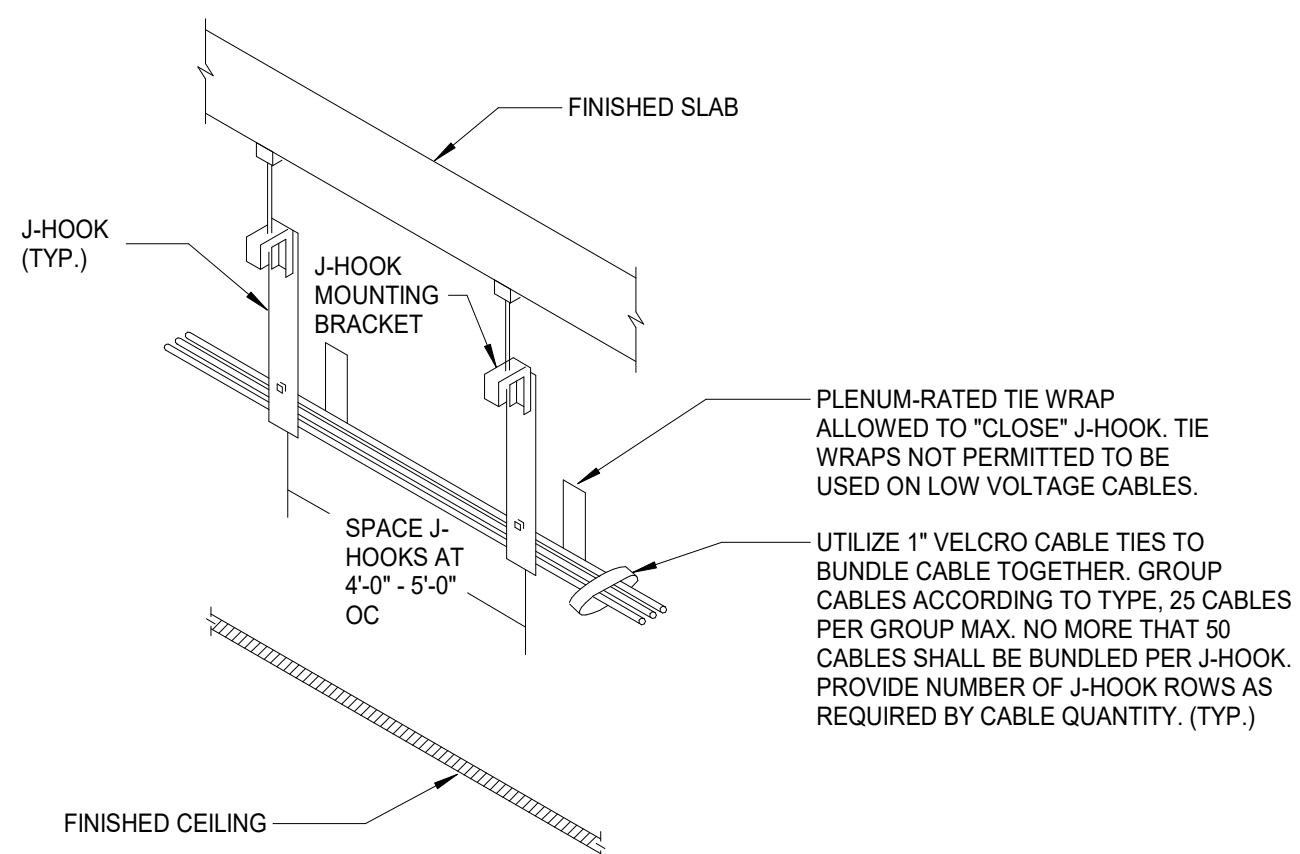


3 WIRELESS ACCESS POINT - SUSPENDED BISCUIT JACK

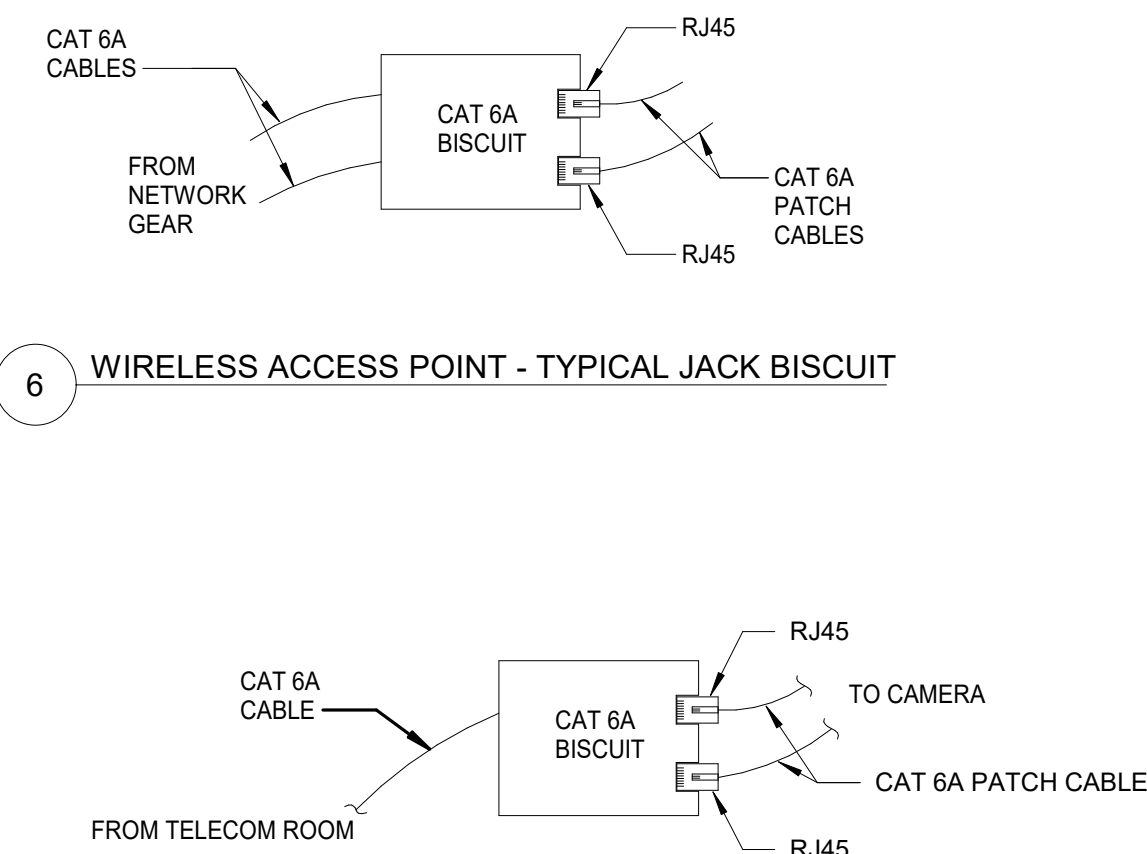


- GENERAL NOTES:**
- A. THE CONTRACTOR SHALL UTILIZE REQUIRED MANUFACTURE RADIUS DROPS FOR TRANSITIONING HORIZONTAL SHOOTING TO VERTICAL SHOOTING OF CABLES.
 - B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL PARTS AND PIECES NECESSARY FOR CABLE PATHWAY SHOWN ON FLOOR PLAN DRAWINGS.
 - C. THE CONTRACTOR SHALL UTILIZE ALL NECESSARY SUPPORT BRACKETS ON 5'-0" SPACING TO INSURE ADEQUATE SUPPORT.
 - D. THE CONTRACTOR SHALL COORDINATE CABLE TRAY INSTALLATION IN CEILING SPACE WITH OTHER ENGINEERED SYSTEMS. PER EIA/TIA 569 STANDARD MAINTAIN 12" OF OPEN SPACE ABOVE CABLE TRAY FOR FUTURE CABLE INSTALLATION.

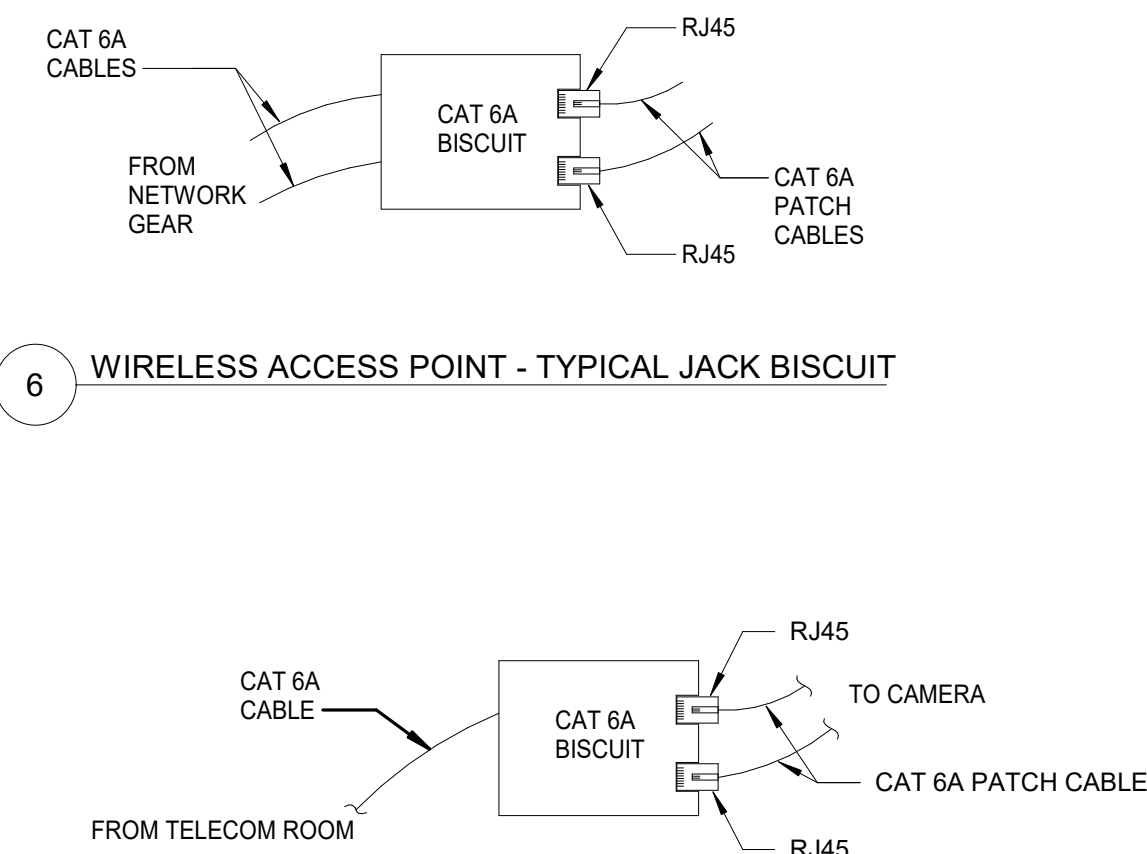
2 CEILING MOUNT - BASKET CABLE TRAY INSTALLATION



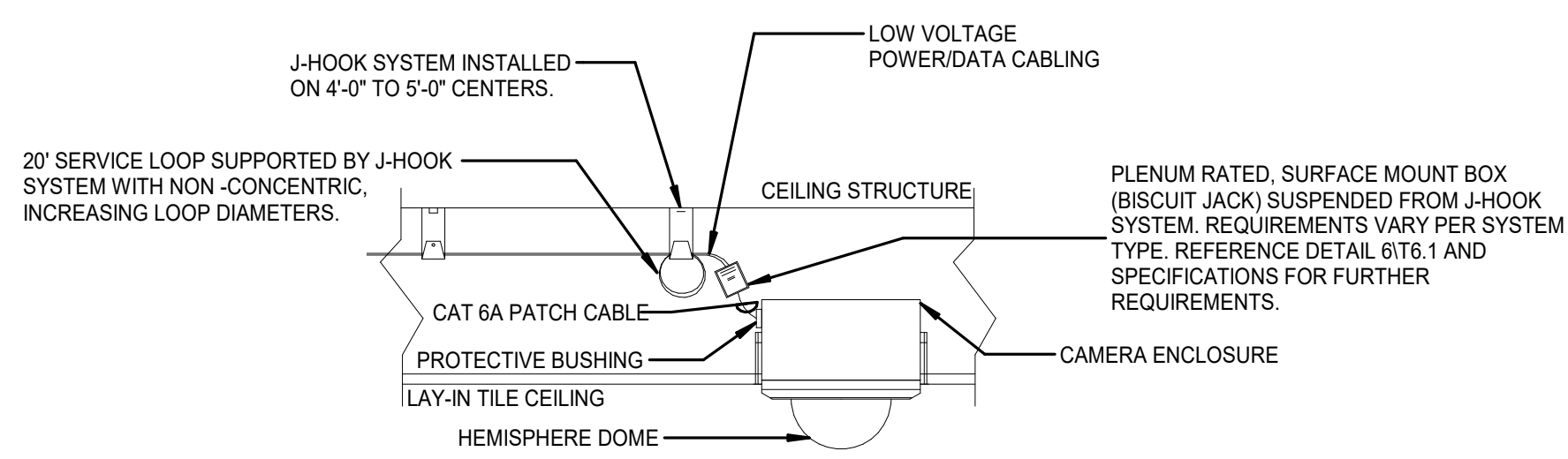
1 ACCESSIBLE CEILING CABLE - INSTALLATION DETAIL



5 VIDEO SURVEILLANCE - TYPICAL JACK BISCUIT



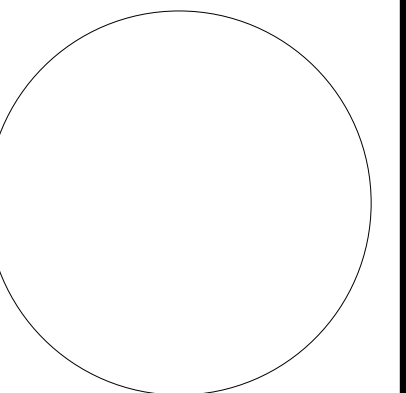
6 WIRELESS ACCESS POINT - TYPICAL JACK BISCUIT



7 LAY-IN CEILING MOUNT - RECESSED DOME CAMERA ENCLOSURE

KEY PLAN

PRINCIPAL
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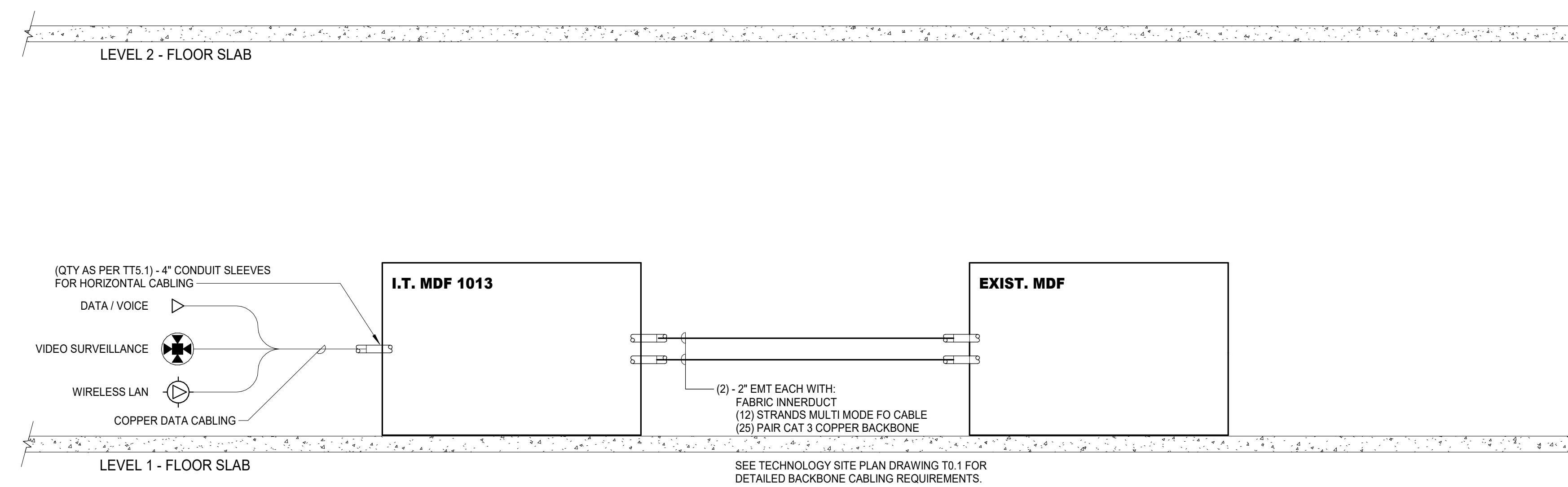
PROJECT NO. 20230523 SCALE

DRAWING NAME

TECHNOLOGY DETAILS

FLOOR/SECTION PHASE NO SCALE

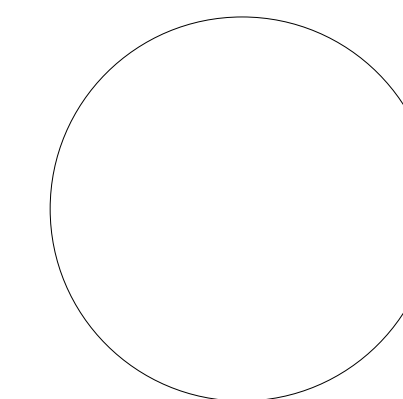
CD T6.4



1 FIBER RISER DIAGRAM I.T. MDF 1013
SCALE: NTS

KEY PLAN

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PROJECT NO. 20230523 SCALE As Indicated

DRAWING NAME

TELECOM RISER DIAGRAMS

FLOOR/SECTION PHASE DRAWING NO.

CD

TT7.1



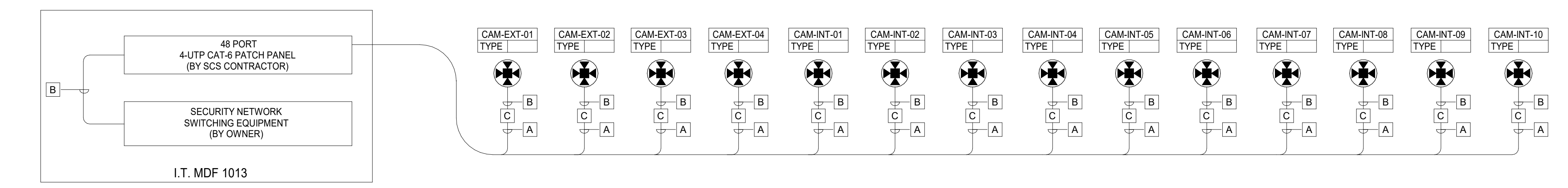
GENERAL NOTES:
1. FOR GENERAL NOTES, ABBREVIATIONS, SYMBOL LEGENDS, ETC. REFER TO DRAWINGS TG-1.
2. DIAGRAMS SHOWN ARE INTENDED TO SHOW GENERAL ARRANGEMENT AND INSTALLATION INTENT OF TYPICAL ACCESS CONTROLS AND ELECTRIFIED DOOR HARDWARE ELEMENTS.

SURVEILLANCE DIAGRAM LEGEND:

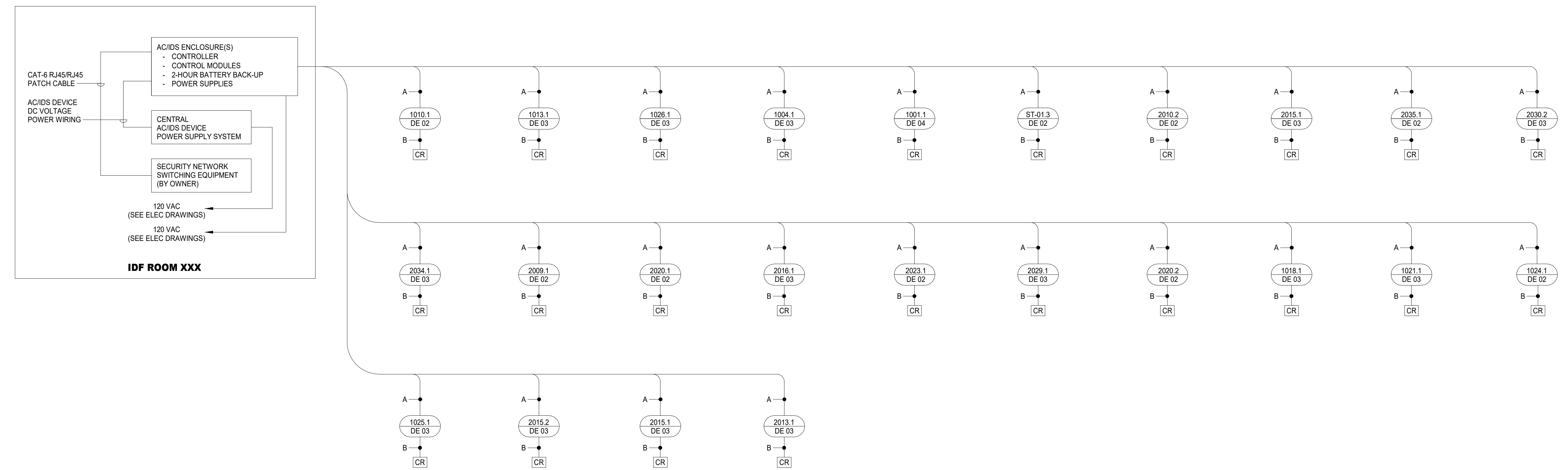
- A 4-UTP CAT-6A CMP CABLE (ISP OR OSP AS REQ'D)
- B 4-UTP CAT-6A CMP PATCH CABLE
- C CAMERA 120V POWER CORD
- D NEMA 4X POLE MOUNT ENCLOSURE
- E MEDIA CONVERSION TRANSCEIVER 4-PAIR UTP COPPER TO OS2 SINGLE MODE FIBER OPTIC CABLE
- F 120V ELECTRICAL POWER RECEPTACLE
- G 2-STRAND OSP ARMORED OS2 LEVEL SINGLEMODE FIBER OPTIC CABLE

ACS CABLING NOTES:

- A. MULTI-CONDUCTOR CABLE:
 - 22 AWG X 4 CONDUCTORS
 - 22 AWG X 3 TWISTED PAIRS
 - 18 AWG X 4 CONDUCTORS
 - 22 AWG (SHIELDED) X 4 CONDUCTORS
- B. 22 AWG (SHIELDED) X 4 CONDUCTORS
- C. 4-PAIR UTP CAT6 PATCH CABLE 3' MIN. BY CABLING CONTRACTOR
- D. DATA CABLING (PROVIDED BY SCS CONTRACTOR)
- E. ACIDS DEVICE DC VOLTAGE POWER WIRING



2 SURVEILLANCE RISER DIAGRAM
SCALE: 12" = 1'-0"



1 ACIDS RISER DIAGRAM
SCALE: 12" = 1'-0"

KEY PLAN

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SEAN WIECZOREK

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PROJECT NO. 20230523 SCALE

DRAWING NAME

ACCESS CONTROL AND VIDEO SURVEILLANCE RISER DIAGRAM

FLOOR/SECTION PHASE DRAWING NO.

CD TS7.1

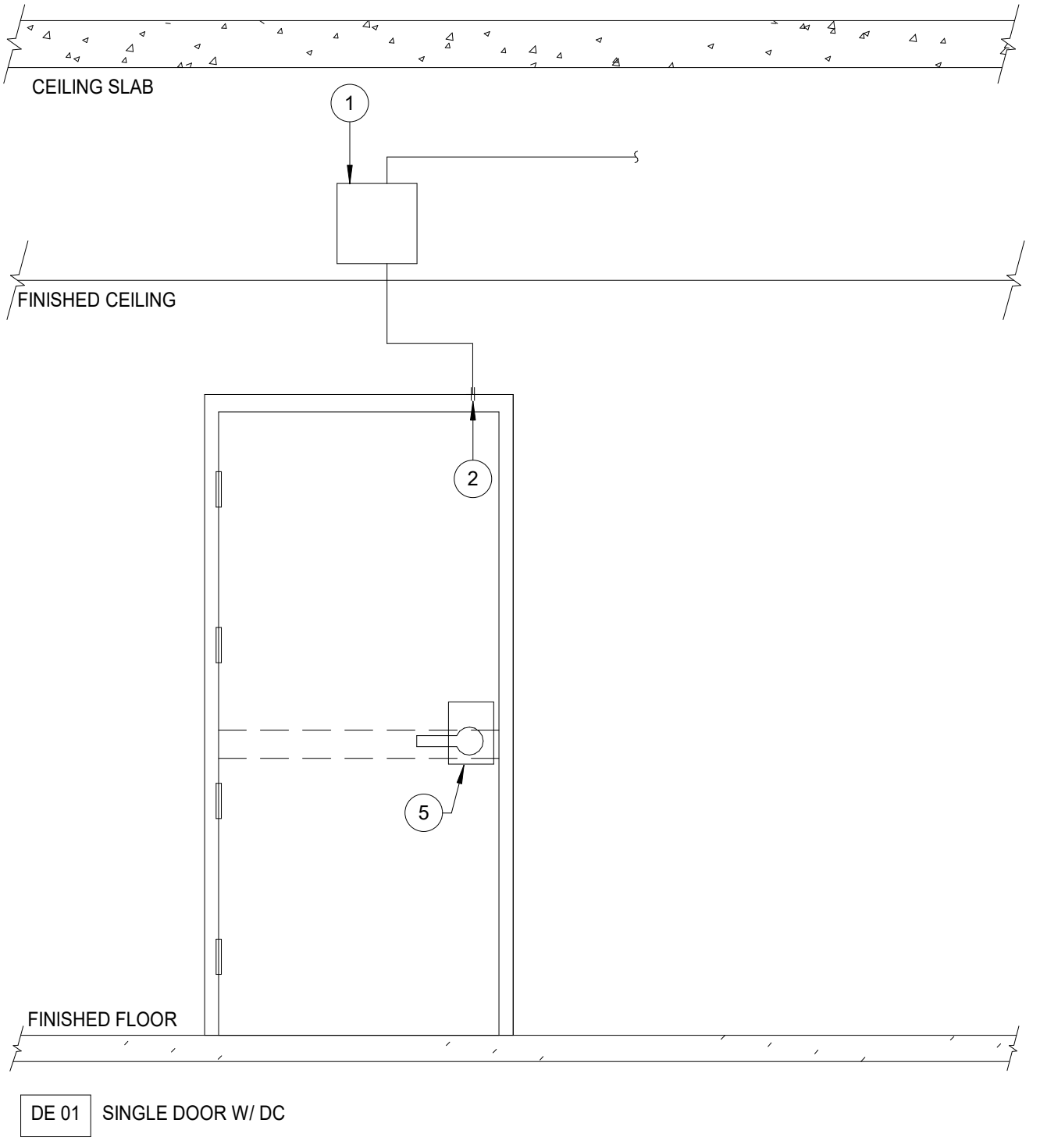
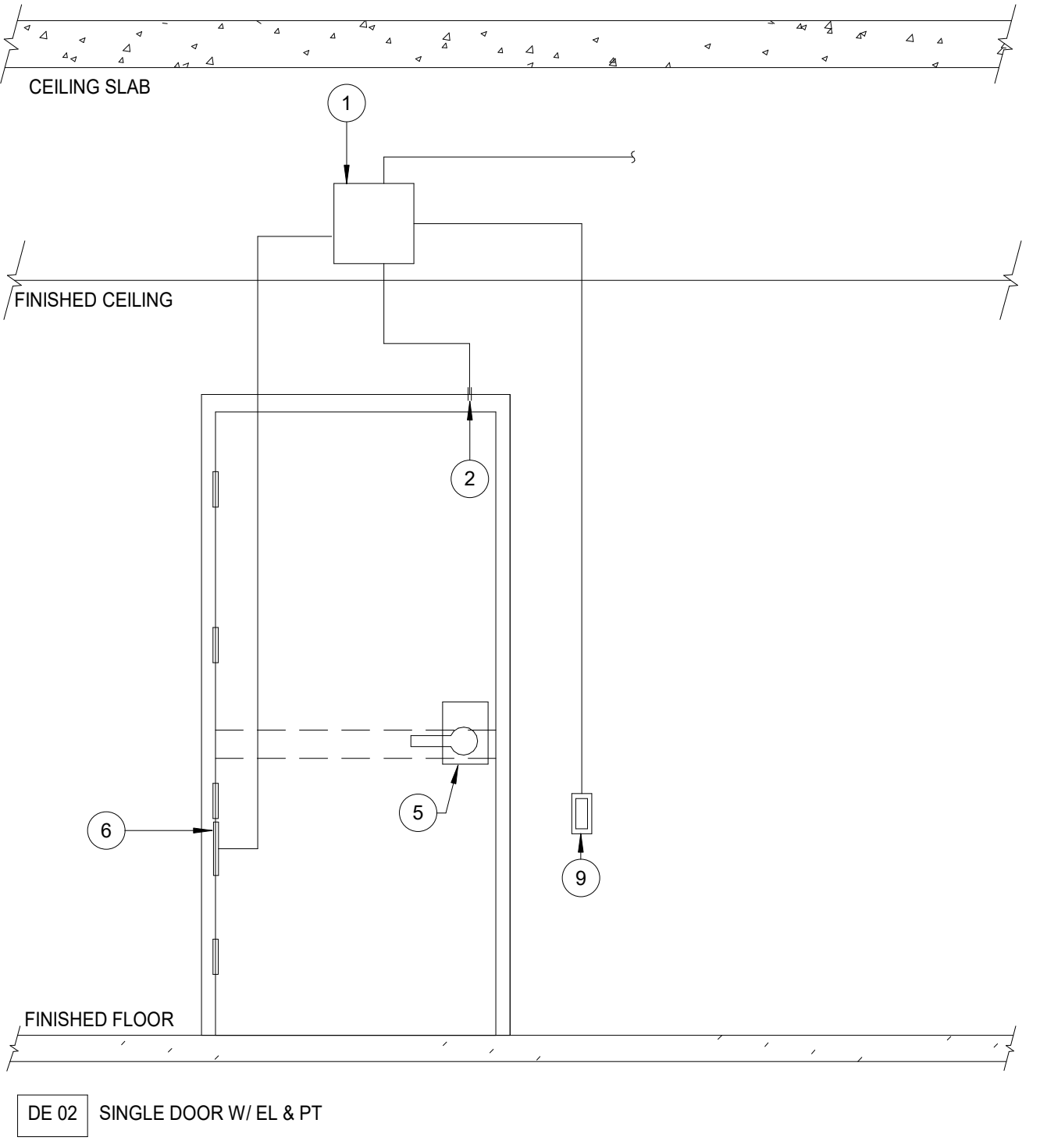
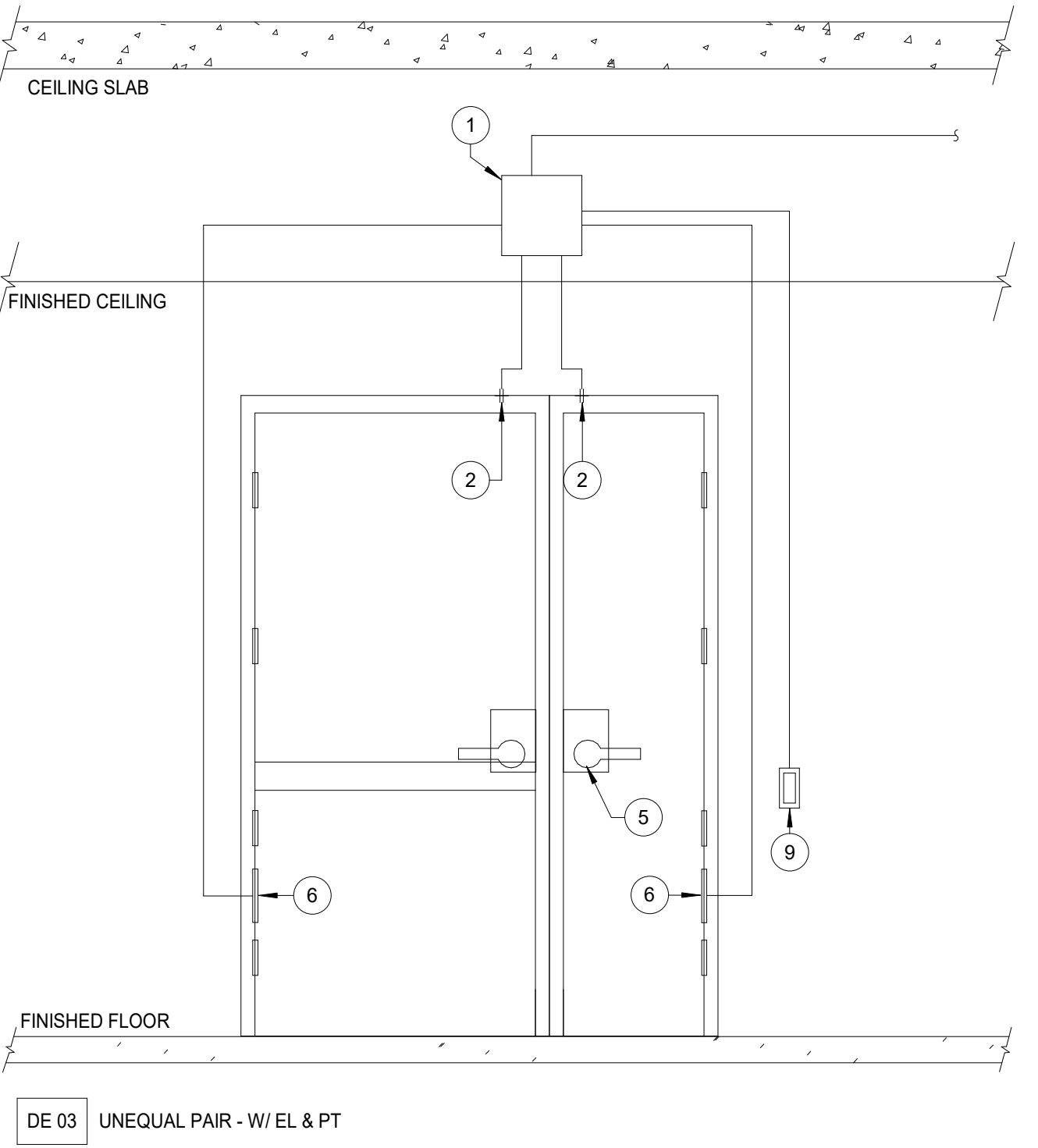
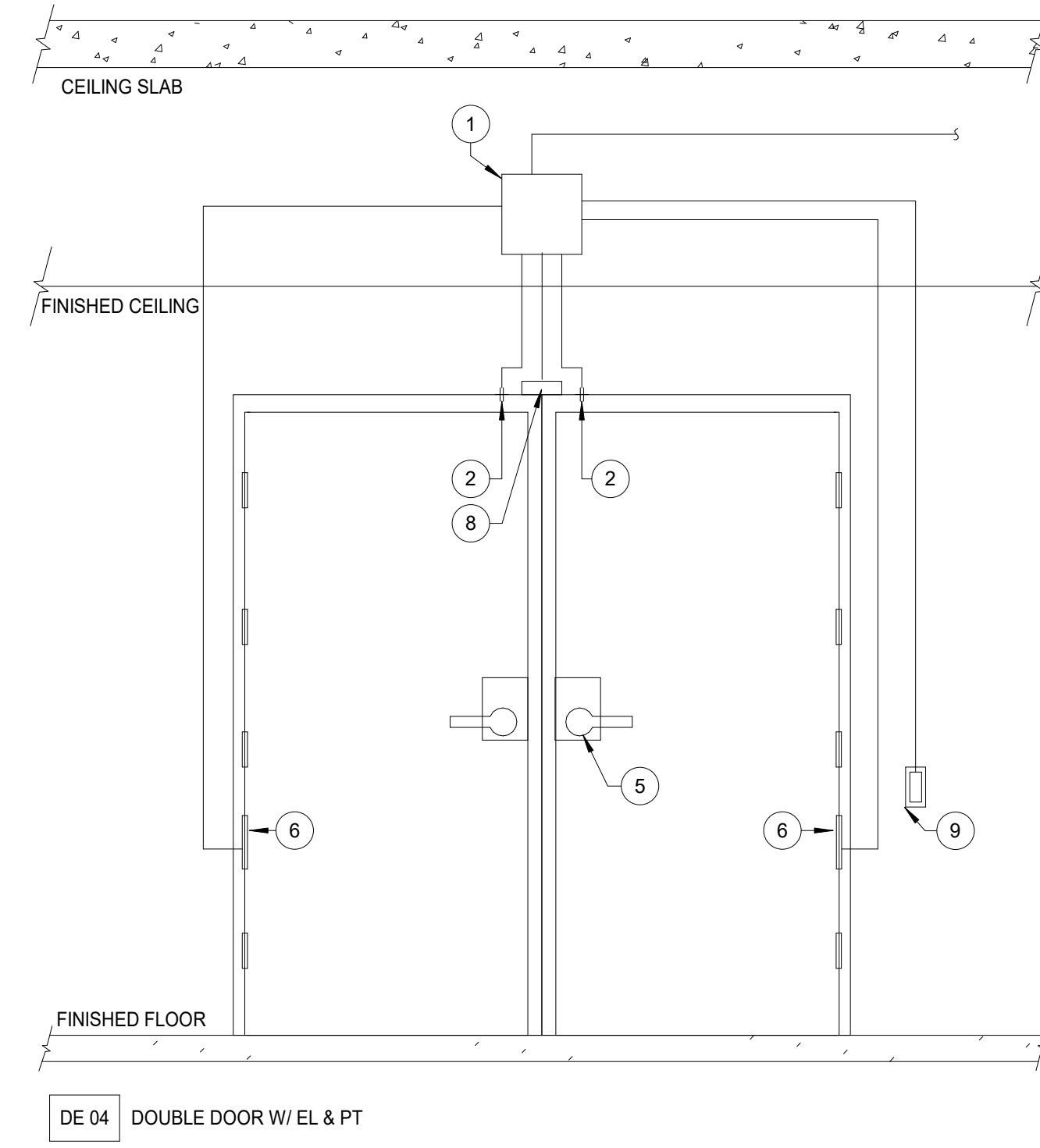
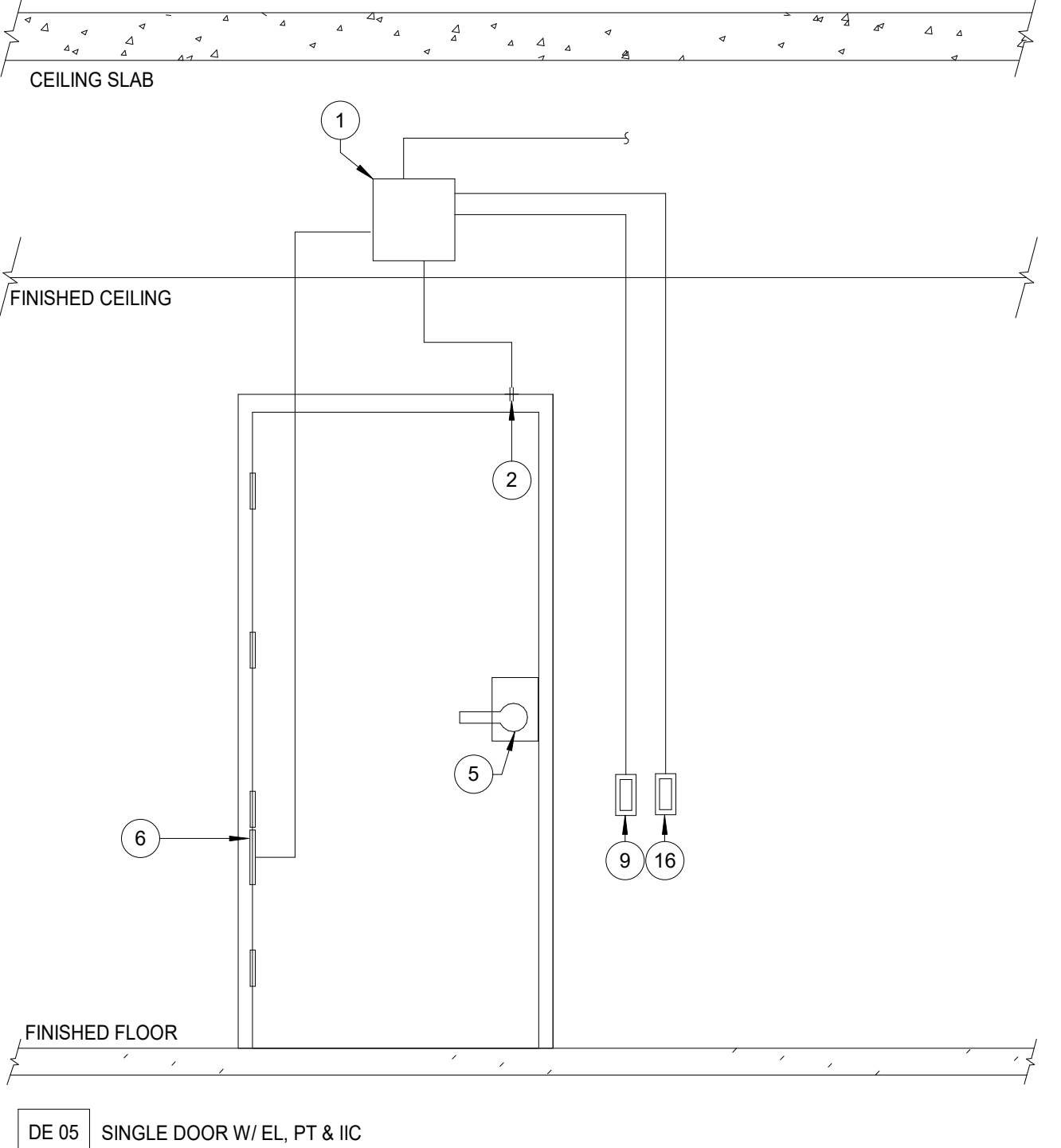
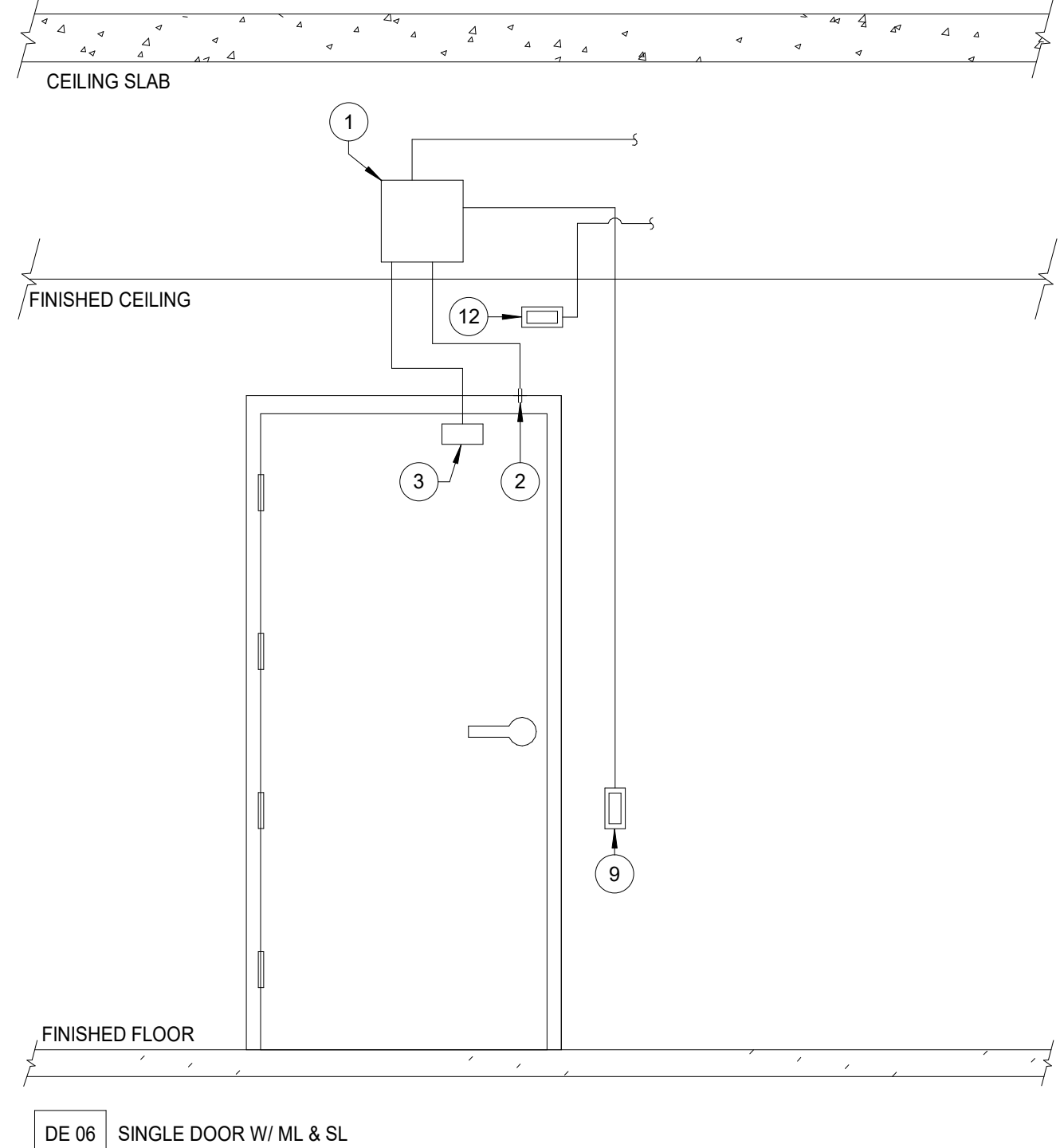
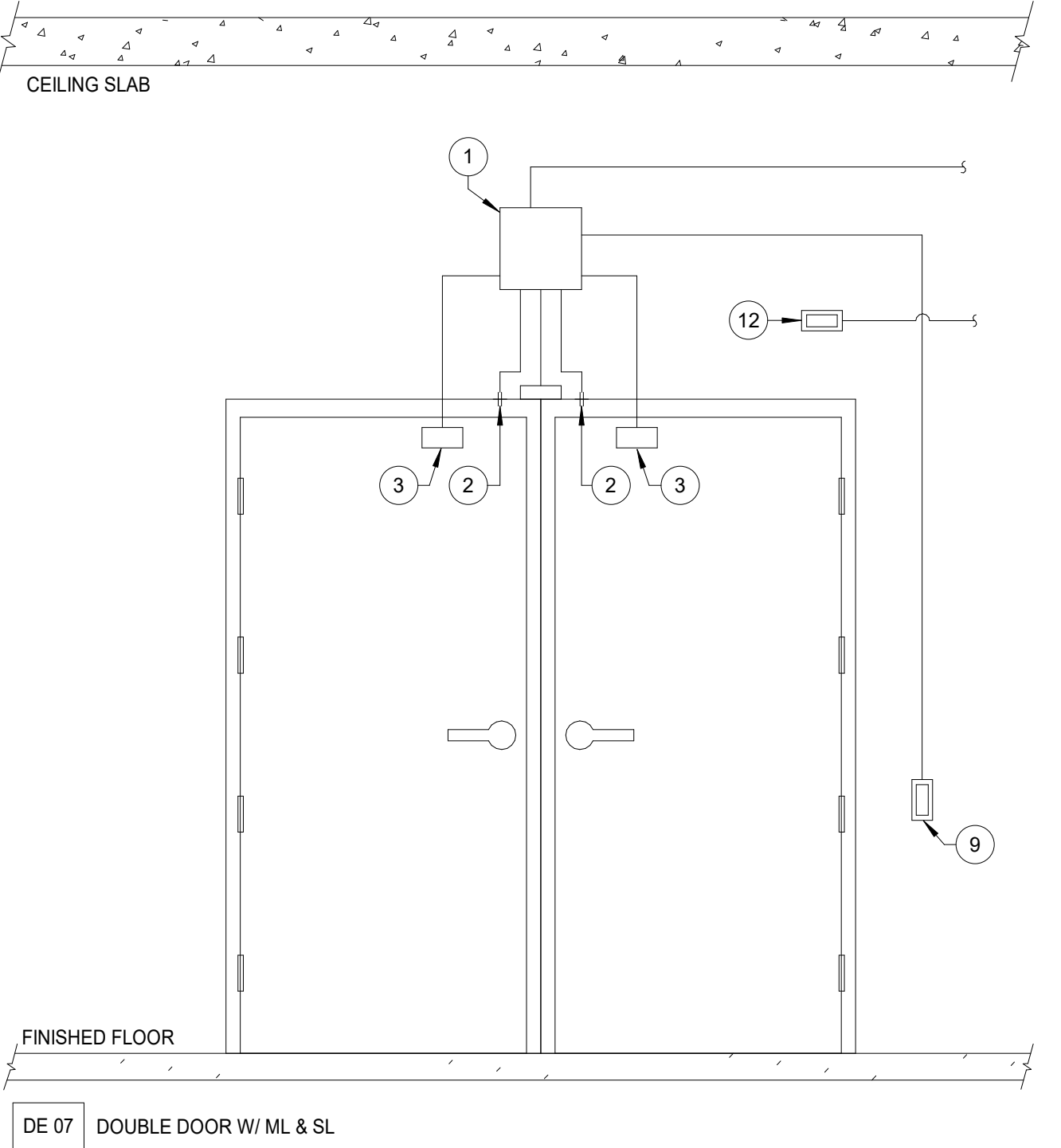
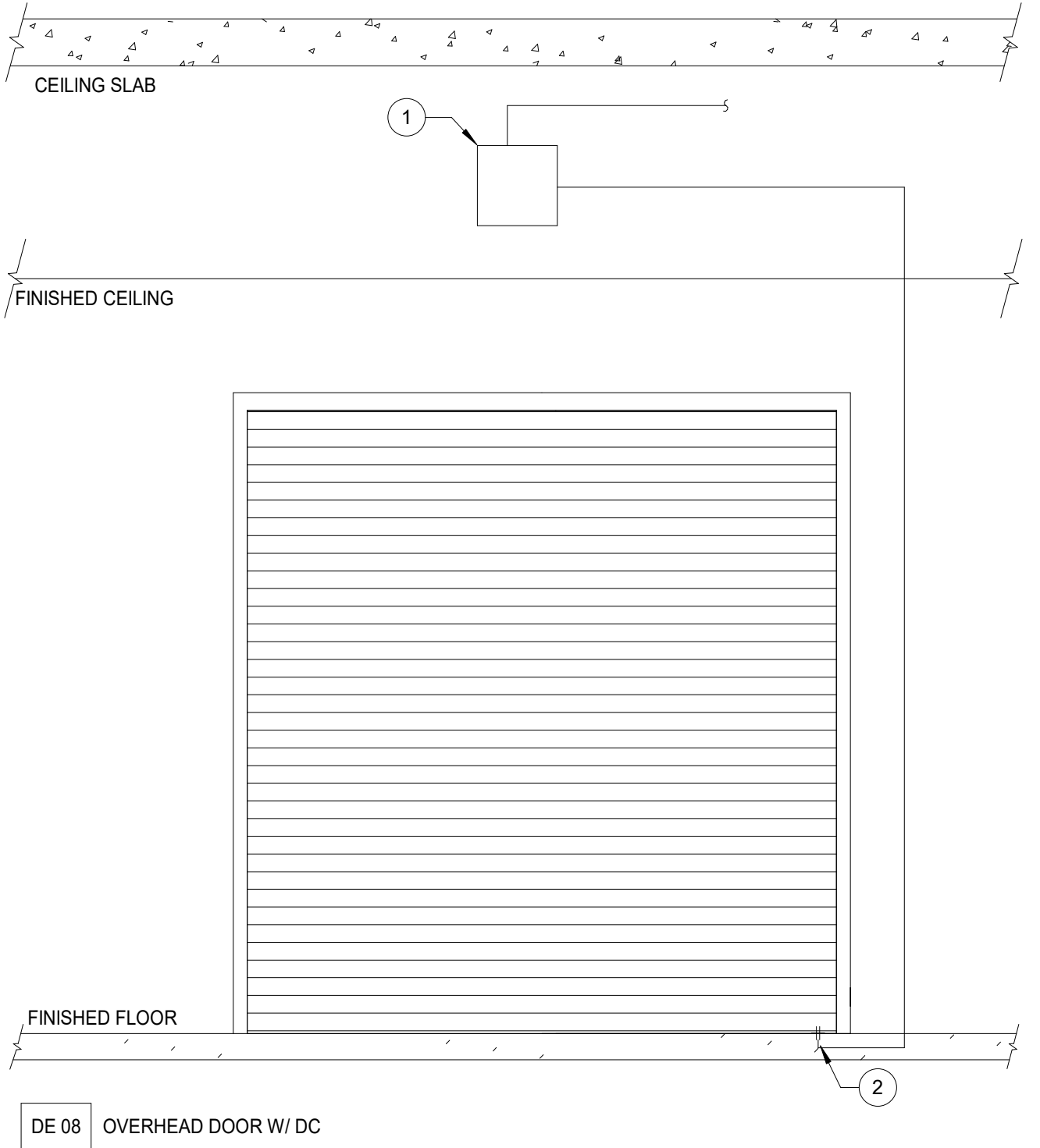


GENERAL NOTES:

- A. ACS CONTRACTOR SHALL REFER TO ARCHITECTURE DOOR ELEVATIONS, HARDWARE SCHEDULE, DOOR HARDWARE, SPECIFICATION, AND INCLUDE EQUIPMENT REQUIRED FOR INTEGRATION WITH ACS.
- B. ELECTRICAL CONTRACTOR SHALL PROVIDE PATHWAYS SHOWN DIAGRAMMATICAL HERE. COORDINATE AND CONFIRM LOCATIONS WITH DOOR HARDWARE CONTRACTOR, OWNER, AND ACS CONTRACTOR PRIOR TO ROUGH-IN.
- C. DEVICE LOCATIONS ARE APPROXIMATE.
- D. REFER TO TS2 SERIES DRAWINGS AND ARCHITECTURAL DOOR ELEVATIONS FOR EXACT LOCATIONS.
- E. DEVICES SHOWN IN HALF-TONE ARE PROVIDED BY OTHERS.
- F. DOOR CONNECTIONS SHALL BE DONE BY AN AUTHORIZED INSTALLER. CONNECT AND PROGRAM AS PER MANUFACTURER RECOMMENDATIONS AND COORDINATE OPERATION WITH OWNER.
- G. FURNISH REQUIRED COMPONENTS AND CABLING AS PER MANUFACTURER.
- H. DASHED LINES INDICATE OTHER SIDE OF DOOR.

KEY NOTES:

- 1 6" X 6" X 2-1/8" JUNCTION BOX (JB) WITH 1" C TO ACP OR 1 1/2" C TO DI.
- 2 DOOR CONTACTS (DC) WITH 3/4" C TO JB
- 3 MAGNETIC LOCKS (M) WITH 3/4" C TO JB
- 4 AUTOMATIC OPENER (AO) WITH 3/4" C TO PS
- 5 ELECTRIFIED LOCKSET (EL)
- 6 POWER TRANSFER (PT) WITH 3/4" C TO JB
- 7 DOOR HARDWARE POWER SUPPLY (PS) WITH 3/4" C TO JB
- 8 INTEGRATED REQUEST TO EXIT (RTE) WITH 3/4" C TO JB
- 9 DOOR CONTROL DEVICE. REFER TO FLOOR PLANS FOR TYPE AND LOCATION
- EMERGENCY PULL (EP) WITH 3/4" C TO JB
- MANUAL RELEASE (ML) WITH 3/4" C TO JB
- TOUCHLESS ENTRY SENSOR (TS) WITH 3/4" C TO JB
- CARD READER (CR) WITH 3/4" C TO JB
- CARD READER WITH INTEGRATED KEYPAD (CR|KP) WITH 3/4" C TO JB
- PUSH TO EXIT BUTTON (PE) WITH 3/4" C TO JB
- 10 ROCKER SWITCH (RS) WITH 3/4" C TO REMOTE MR
- 11 FIRE ALARM INTERFACE (FI) WITH 3/4" C. PROVIDED BY OTHERS
- 12 STATUS LIGHT (SL) WITH 3/4" C TO DI
- 13 MOTORIZED LATCH RETRACTION (MLR) DOOR HARDWARE
- 14 CONTINUOUS HINGE (CH) WITH INTEGRATED POWER TRANSFER WITH 3/4" C TO JB
- 15 PASSIVE INFRARED SENSOR (PIR)
- 16 IP INTERCOM (IC) WITH 3/4" C TO JB



KEY PLAN

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**SOUTHERN NEVADA
NEW BSL-3 LABORATORY
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700 South M.L.K. Blvd Las Vegas, NV 89106

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PROJECT NO. 20230523 SCALE

DRAWING NAME

DOOR ELEVATIONS - SECURITY

FLOOR/SECTION PHASE DRAWING NO.

CD TS7.2

SCOPE OF WORK

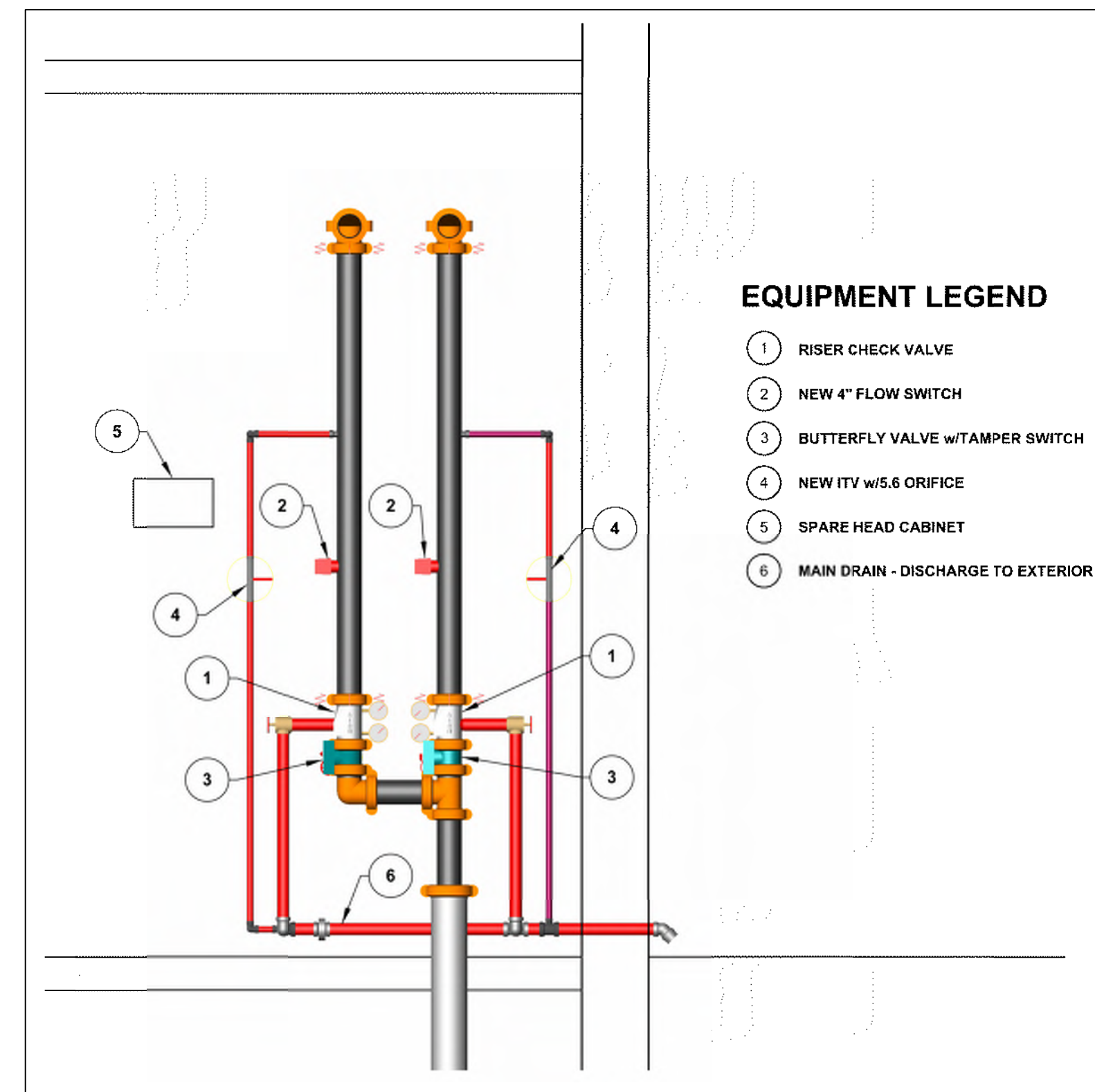
THE SOUTHERN NEVADA HEALTH DISTRICT BIOSAFETY LAB WILL BE PROVIDED WITH A CODE COMPLIANT AUTOMATIC SPRINKLER SYSTEM.

GENERAL NOTES

1. FIRE SPRINKLER SYSTEM SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY AN INDIVIDUAL THAT HAS OBTAINED NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES, WATER-BASED SYSTEMS LAYOUT, LEVEL III CERTIFICATION, AT A MINIMUM. SHOP DRAWINGS SHALL BE SUBMITTED TO CITY OF LAS VEGAS THE NEVADA STATE FIRE MARSHAL FOR REVIEW AND APPROVAL.
2. THESE DRAWINGS ARE DIAGRAMMATIC AND NOT INTENDED AS SHOP DRAWINGS. CONTRACTOR SHALL DESIGN AND INSTALL AN AUTOMATIC FIRE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13, PROJECT SPECIFICATIONS, AND THESE DRAWINGS.
3. CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR NECESSARY FOR THE INSTALLATION OF A SPRINKLER SYSTEM AS SHOWN. WHERE APPLICABLE, ALL COMPONENTS AND MATERIALS FURNISHED AND INSTALLED SHALL BE NEW AND UL LISTED. EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND ITS LISTING.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORK WITH OTHER DISCIPLINES.
5. WORK SHALL COMPLY WITH 2019 NFPA 13 AND 2021 LVFC.
6. STEEL PIPING SHALL HAVE A MINIMUM CORROSION RESISTANCE RATIO (CRR) OF 1.0.
7. SYSTEM PIPING SHALL BE SUPPORTED AND BRACED PER NFPA 13.
8. SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH NFPA 13, AND UFC 3-600-01.
9. SYSTEMS SHALL BE HYDROSTATICALLY TESTED AT 200 PSI OR 50 PSI OVER THE WORKING PRESSURE, WHICHEVER IS GREATER, FOR A MINIMUM OF 2 HOURS.
10. ALL CONTROL VALVES TO BE ELECTRONICALLY SUPERVISED IN THE OPEN POSITION UNLESS OTHERWISE NOTED.

APPLICABLE CODES

- 2021 INTERNATIONAL FIRE CODE WITH CITY OF LAS VEGAS AMENDMENTS (LVFC)
- 2021 INTERNATIONAL BUILDING CODE WITH CITY OF LAS VEGAS AMENDMENTS (LVBC)
- 2019 NFPA 13 - STANDARD OF THE INSTALLATION OF SPRINKLER SYSTEMS.



EQUIPMENT LEGEND

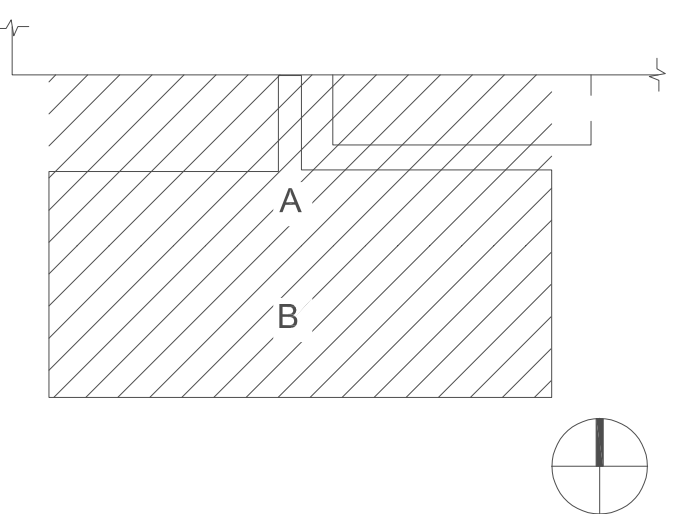
- ① RISER CHECK VALVE
- ② NEW 4" FLOW SWITCH
- ③ BUTTERFLY VALVE w/TAMPER SWITCH
- ④ NEW ITY w/5.6 ORIFICE
- ⑤ SPARE HEAD CABINET
- ⑥ MAIN DRAIN - DISCHARGE TO EXTERIOR

FIRE SPRINKLER - RISER DETAIL

1/2" = 1' - 0"

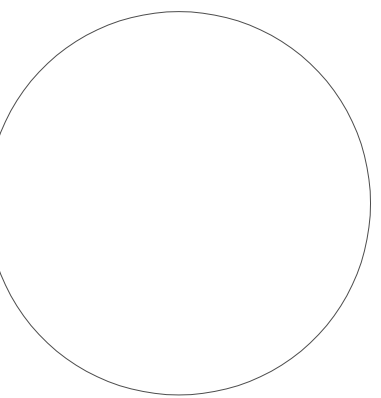
23.0362 FSO.00

KEY PLAN



PRINCIPAL

RESEARCH PLANNER



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B		DESIGN DEVELOPMENT	05.24.2024
A		50% DD SET	05.10.2024

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PROJECT NO. _____ SCALE _____

DRAWING NAME _____

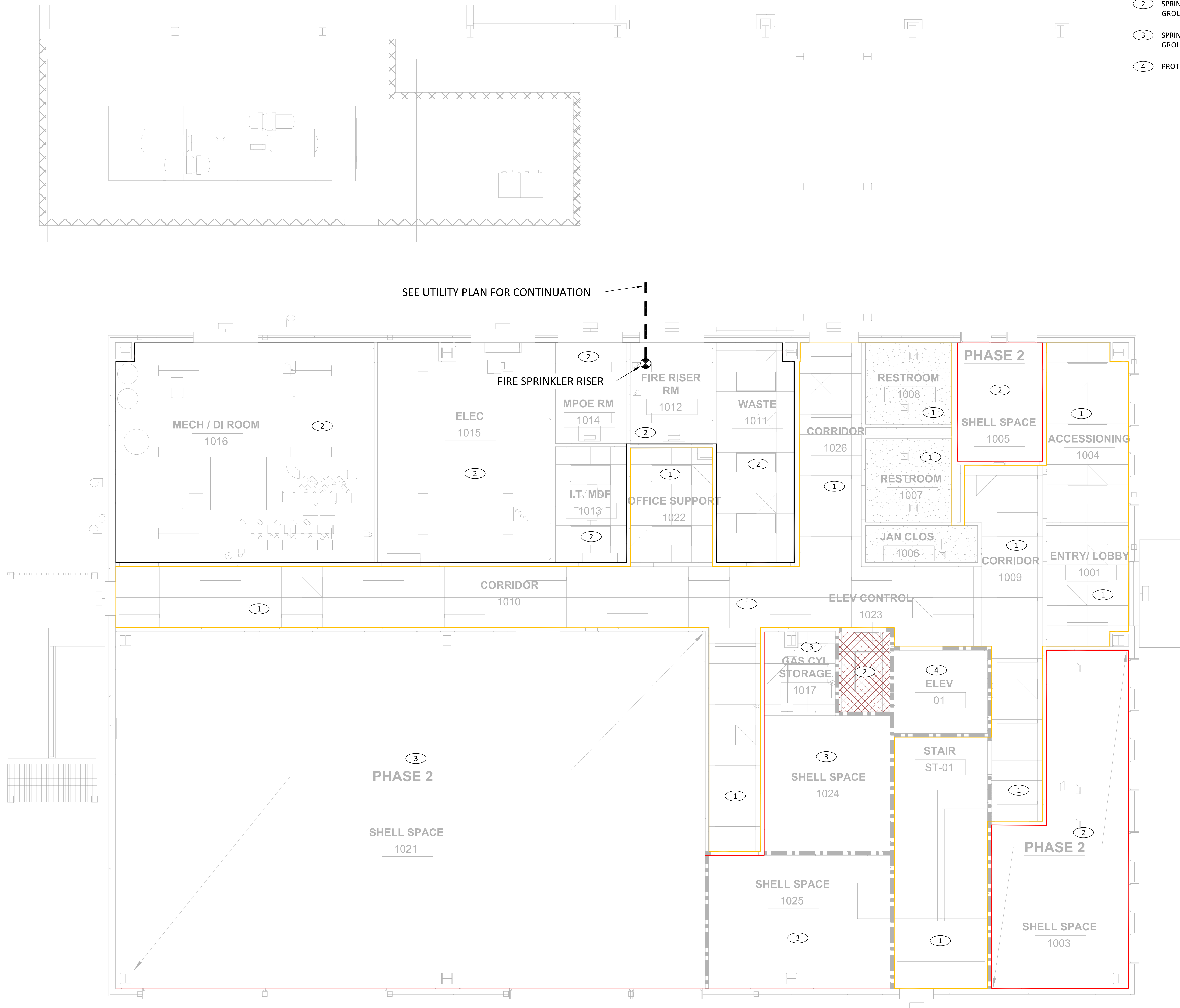
COVER SHEET - FIRE SPRINKLER

FLOOR/SECTION PHASE _____

DRAWING NO.

SHEET NOTES

- ① SPRINKLERS IN CORRIDOR/OFFICES TO BE LIGHT HAZARD DESIGN, QUICK RESPONSE TYPE
- ② SPRINKLERS IN STORAGE ROOMS TO BE ORDINARY HAZARD GROUP 1 DESIGN.
- ③ SPRINKLERS IN SPACE TO BE ORDINARY HAZARD GROUP 2 DESIGN.
- ④ PROTECTED IN ACCORDANCE WITH NFPA 13.



SEE UTILITY PLAN FOR CONTINUATION

FIRE SPRINKLER RISER

FIRE RISER RM 1012

MECH / DI ROOM 1016

ELEC 1015

MPOE RM 1014

I.T. MDF 1013

OFFICE SUPPORT 1022

WASTE 1011

CORRIDOR 1026

RESTROOM 1008

RESTROOM 1007

JAN CLOS. 1006

PHASE 2

SHELL SPACE 1005

ACCESSIONING 1004

CORRIDOR 1009

ENTRY/ LOBBY 1001

CORRIDOR 1010

ELEV CONTROL 1023

GAS CYL STORAGE 1017

ELEV 01

STAIR ST-01

SHELL SPACE 1024

PHASE 2

SHELL SPACE 1021

SHELL SPACE 1025

PHASE 2

SHELL SPACE 1003

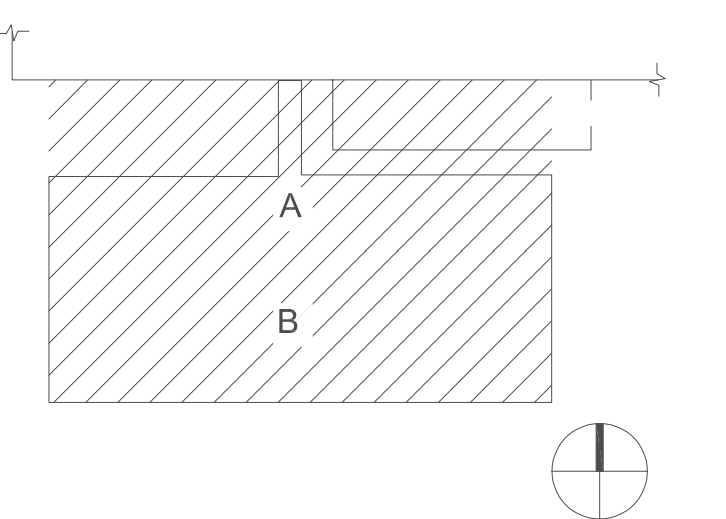
FIRE SPRINKLER - LEVEL 1

1/4" = 1' - 0"

23.0362 FS2.20

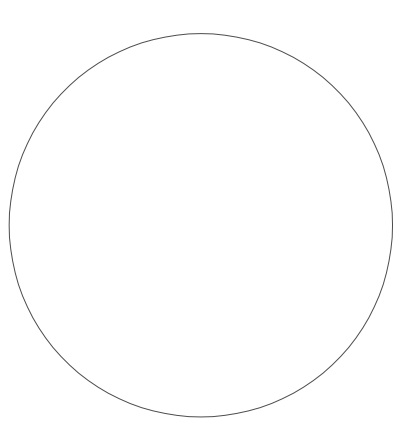


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FIRE SPRINKLER - LEVEL 1

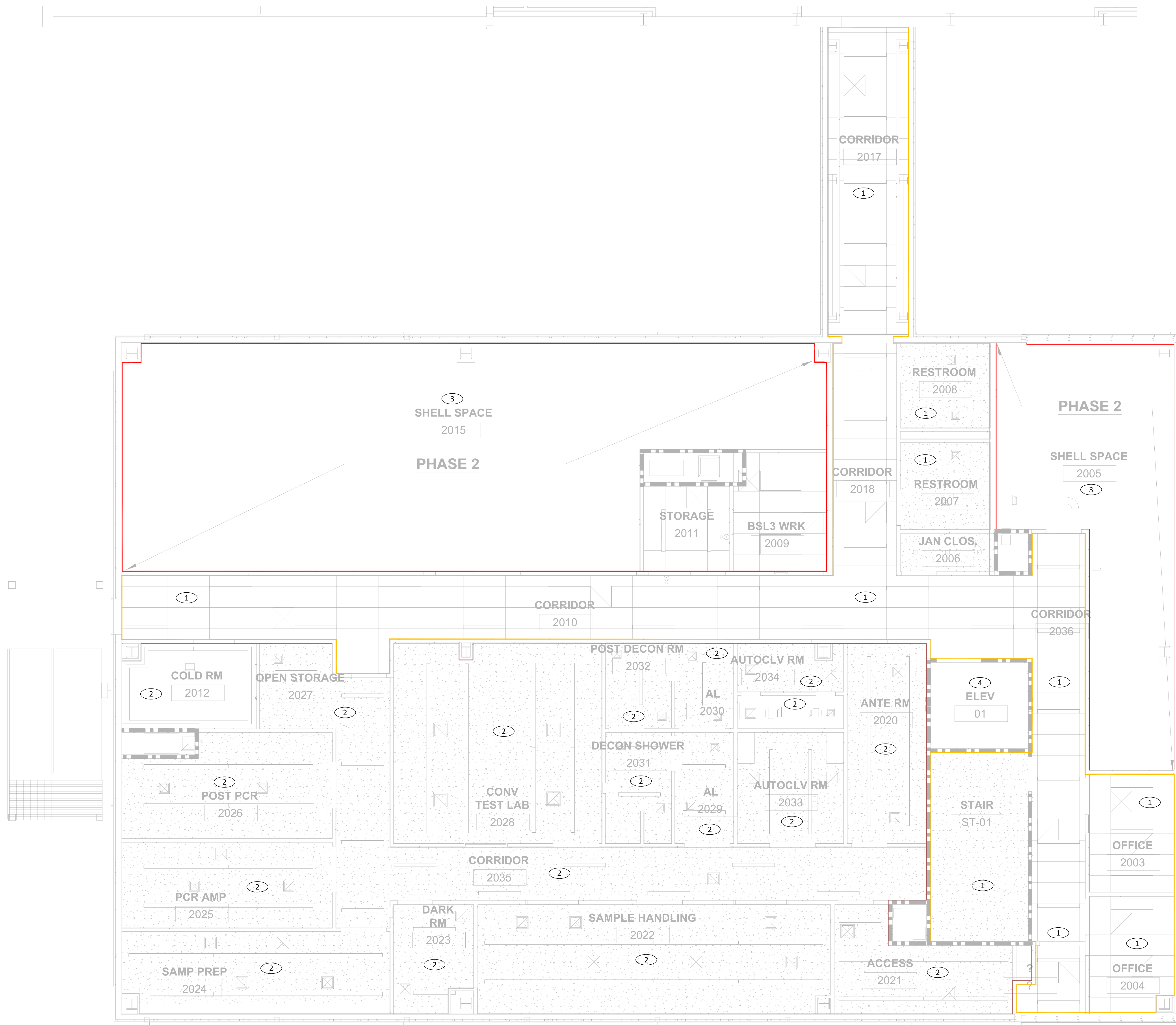
FLOOR/SECTION PHASE _____ DRAWING NO. _____

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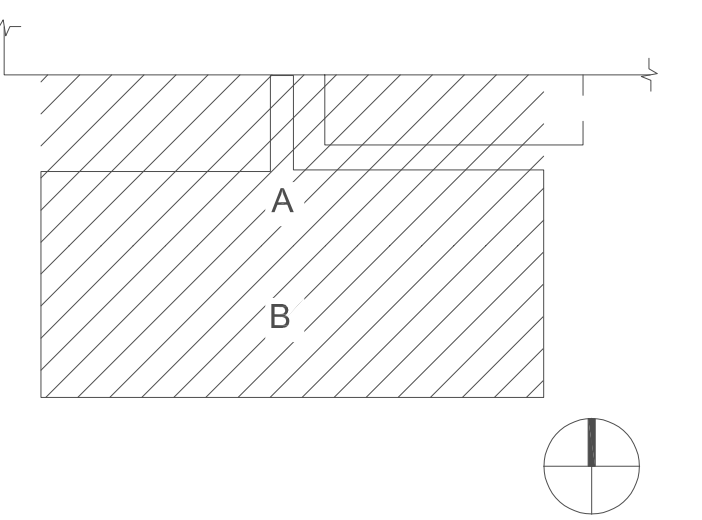
FS2.20

SHEET NOTES

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- ④ PROTECTED IN ACCORDANCE WITH NFPA 13.

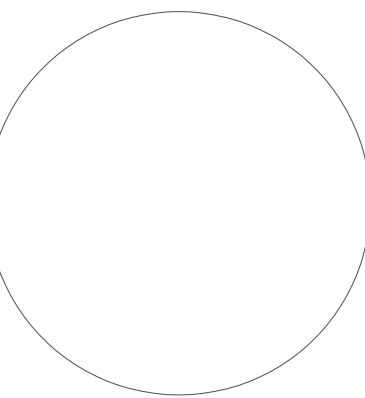


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FIRE SPRINKLER - LEVEL 2

FLOOR/SECTION PHASE _____ DRAWING NO. _____

FIRE SPRINKLER - LEVEL 2

1/4" = 1'0"

23.0362 FS2.21



NOT FOR CONSTRUCTION

FS2.21



SCOPE OF WORK

THE SOUTHERN NEVADA HEALTH DISTRICT BIOSAFETY LAB WILL BE PROVIDED WITH THE FOLLOWING:

- NEW ADDRESSABLE FIRE ALARM SYSTEM
- ADDRESSABLE MONITOR MODULES FOR FIRE SPRINKLER WATERFLOW DETECTOR
- ADDRESSABLE MONITOR MODULES FOR MONITORING FIRE SPRINKLER CONTROL VALVE TAMPER SWITCHES
- ADDRESSABLE SMOKE DETECTORS FOR ELEVATORS
- HORN NOTIFICATION APPLIANCES THROUGHOUT THE BUILDING
- ADA-COMPLIANT STRPBE LIGHTS IN ALL COMMON USE AND PUBLIC AREAS.

SYMBOL LEGEND

FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
S	SMOKE DETECTOR
S-	DUCT SMOKE DETECTOR
F	MANUAL FIRE ALARM BOX
MM	ADDRESSABLE MONITOR MODULE
H	FIRE ALARM HORN
H-	WALL-MOUNTED FIRE ALARM HORN/STROBE
H-WP	WEATHER PROOF WALL-MOUNTED FIRE ALARM HORN/STROBE
H-X	WALL-MOUNTED FIRE ALARM STROBE
WFS	SPRINKLER WATERFLOW SWITCH
TS	SPRINKLER TAMPER SWITCH

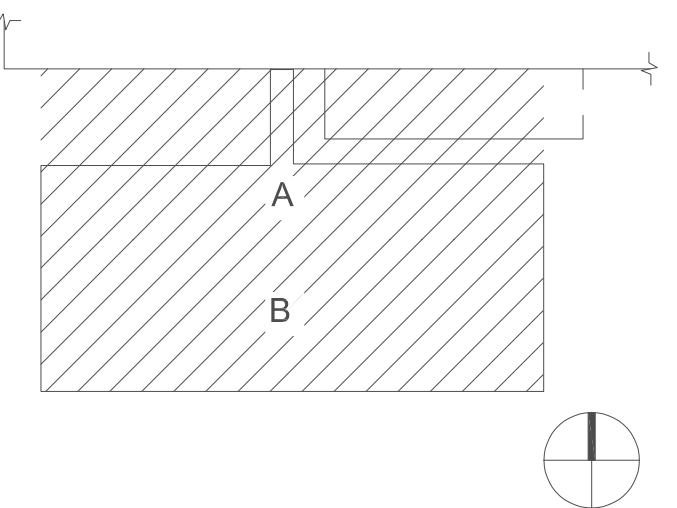
GENERAL NOTES

1. FIRE ALARM SYSTEM SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY AN INDIVIDUAL THAT HAS OBTAINED NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES, FIRE ALARM SYSTEMS, LEVEL III CERTIFICATION, AT A MINIMUM. SHOP DRAWINGS SHALL BE SUBMITTED TO THE CITY OF LAS VEGAS FIRE & RESCUE (CLVFR) FOR REVIEW AND APPROVAL.
2. THESE DRAWINGS ARE DIAGRAMMATIC AND NOT INTENDED AS SHOP DRAWINGS. CONTRACTOR SHALL DESIGN AND INSTALL A FIRE ALARM AND EMERGENCY VOICE COMMUNICATION SYSTEM IN ACCORDANCE WITH NFPA 72, PROJECT SPECIFICATIONS, AND THESE DRAWINGS.
3. THE FIRE ALARM CONTROL PANEL SHALL BE PROVIDED WITH EQUIPMENT AND SOFTWARE FOR OFFSITE SOFTWARE UPLOADING AND TRANSMISSION OF SYSTEM TESTING TO MOBILE DEVICES.
4. NEW ADDRESSABLE DEVICES SHALL BE PROVIDED AS FOLLOWS:
 - 4.1. MANUAL FIRE ALARM BOXES AT THE DESIGNATED LOCATIONS PER THE DRAWINGS.
 - 4.2. SMOKE DETECTION AS SHOWN.
 - 4.3. DUCT SMOKE DETECTION AT AIR HANDLING UNITS.
 - 4.4. RELAY MODULES FOR HVAC UNIT SHUTDOWN
 - 4.5. MONITOR MODULES FOR EACH SPRINKLER WATERFLOW SWITCH AND VALVE SUPERVISORY DEVICE.
5. ALL ADDRESSABLE DEVICES SHALL BE PROVIDED WITH A PRINTED LABEL INDICATING THE DEVICE SPECIFIC ADDRESS. LABELS TO BE ATTACHED TO THE DEVICE OR CEILING GRID FOR CEILING MOUNTED DEVICES.
6. ALL FIRE ALARM INITIATING DEVICES AND NOTIFICATION APPLIANCES SHALL BE PROVIDED WITH A BAR CODE LABEL FOR TESTING VERIFICATION PURPOSES. BAR CODE LABEL REQUIREMENTS SHALL BE COORDINATED WITH THE DESIGNATED PROJECT MANAGER.
7. PROVIDE NEW FIRE ALARM AUDIBLE AND VISIBLE NOTIFICATION APPLIANCES AS NECESSARY TO MEET THE CLVFR PROVISIONS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THE THE EQUIPMENT USED SHALL MEET THE PERFORMANCE DESIGN INTENT FOR AUDIBILITY BASED ON THE REQUIREMENTS OF THE ADOPTED NFPA 72.
9. SYSTEM WIRING SHALL BE INSTALLED WITHIN METAL RACEWAYS. MC CABLE IS NOT ACCEPTABLE.
10. AUDIBILITY MEASUREMENTS TAKEN DURING THE FINAL ACCEPTANCE TEST AS REQUIRED BY NFPA 72 SHALL BE RECORDED ON THE AS-BUILTS. THE AS-BUILTS DRAWINGS SHALL INDICATE THE AUDIBILITY MEASUREMENTS AND THE LOCATION MEASURED FOR ALL NOTIFICATION APPLIANCES.
11. FIRE ALARM VISIBLE NOTIFICATION APPLIANCES SHALL BE PROVIDED IN ALL PUBLIC AND COMMON USE AREAS PER CLVFR.
12. THE MANUFACTURER OR MANUFACTURER'S REPRESENTATIVE SHALL PROVIDE TRAINING FOR THE NEW FIRE ALARM SYSTEM. TRAINING SHALL BE INCLUDED IN THE BASE BID UNLESS INDICATED OTHERWISE AND SHALL BE PROVIDED AT THE LOCAL FACILITY. TRAINING SHALL INCLUDED OPERATION, INSTALLATION, MAINTENANCE, AND TROUBLESHOOTING FOR ALL EQUIPMENT INSTALLED. A MANUFACTURER'S CERTIFIED TRAINING INSTRUCTOR SHALL PROVIDE TRAINING.
13. UPON COMPLETION OF SYSTEM INSTALLATION, THE OWNER SHALL BE SUPPLIED WITH THE FOLLOWING:
 - 13.1. OPERATION MANUAL INCLUDING CRITICAL INFORMATION ON SYSTEM MAINTENANCE, INSTALLATION, AND OPERATIONS.
 - 13.2. DATA SHEETS FOR ALL DEVICES INSTALLED AS PART OF THE SYSTEM.
 - 13.3. PROGRAMMING POINTS LIST AND FIRE ALARM AND MASS NOTIFICATION SYSTEM SOFTWARE.
 - 13.4. ONE SET OF AS-BUILT SHOP DRAWINGS WITH DEVICE NUMBERS ANNOTATED.
 - 13.5. A COPY OF THE FINAL FIRE INSPECTION AND INSTALLATION DOCUMENTS PER NFPA 72.
 - 13.6. COPY OF AS-BUILTS ON A CD-R IN AUTOCAD AND .PDF FORMAT PRIOR TO FINAL COMPLETION OF THE FIRE ALARM SYSTEM INSTALLATION.
 - 13.7. AS PART OF THE CLOSE OUT PACKAGE PLEASE PROVIDE THREE (3) SETS OF KEYS OF EACH TYPE FOR ANY TEST SWITCHES, EQUIPMENT CABINETS AND MANUAL FIRE ALARM BOXES.
14. 120VAC, 20A EMERGENCY POWER CIRCUITS TO FIRE ALARM CONTROL UNITS AND POWER SUPPLIES SHALL BE IDENTIFIED IN ACCORDANCE WITH NFPA 72. THE CIRCUIT BREAKER SHALL HAVE A RED MARKING, LOCK ON PROVISION AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL".
15. ALL NOTIFICATION APPLIANCES SHALL BE RED AND LABELED "FIRE".

APPLICABLE CODES

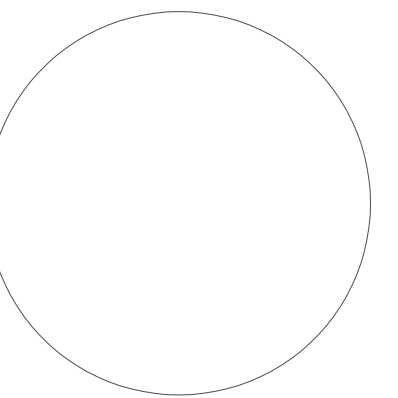
- 2021 INTERNATIONAL FIRE CODE WITH CITY OF LAS VEGAS AMENDMENTS (LVFC)
- 2021 INTERNATIONAL BUILDING CODE WITH CITY OF LAS VEGAS AMENDMENTS (LVBC)
- 2019 NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE
- 2017 NATIONAL ELECTRICAL CODE (NEC)
- 2018 UNIFORM MECHANICAL CODE (UMC)

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COVER SHEET - FIRE ALARM

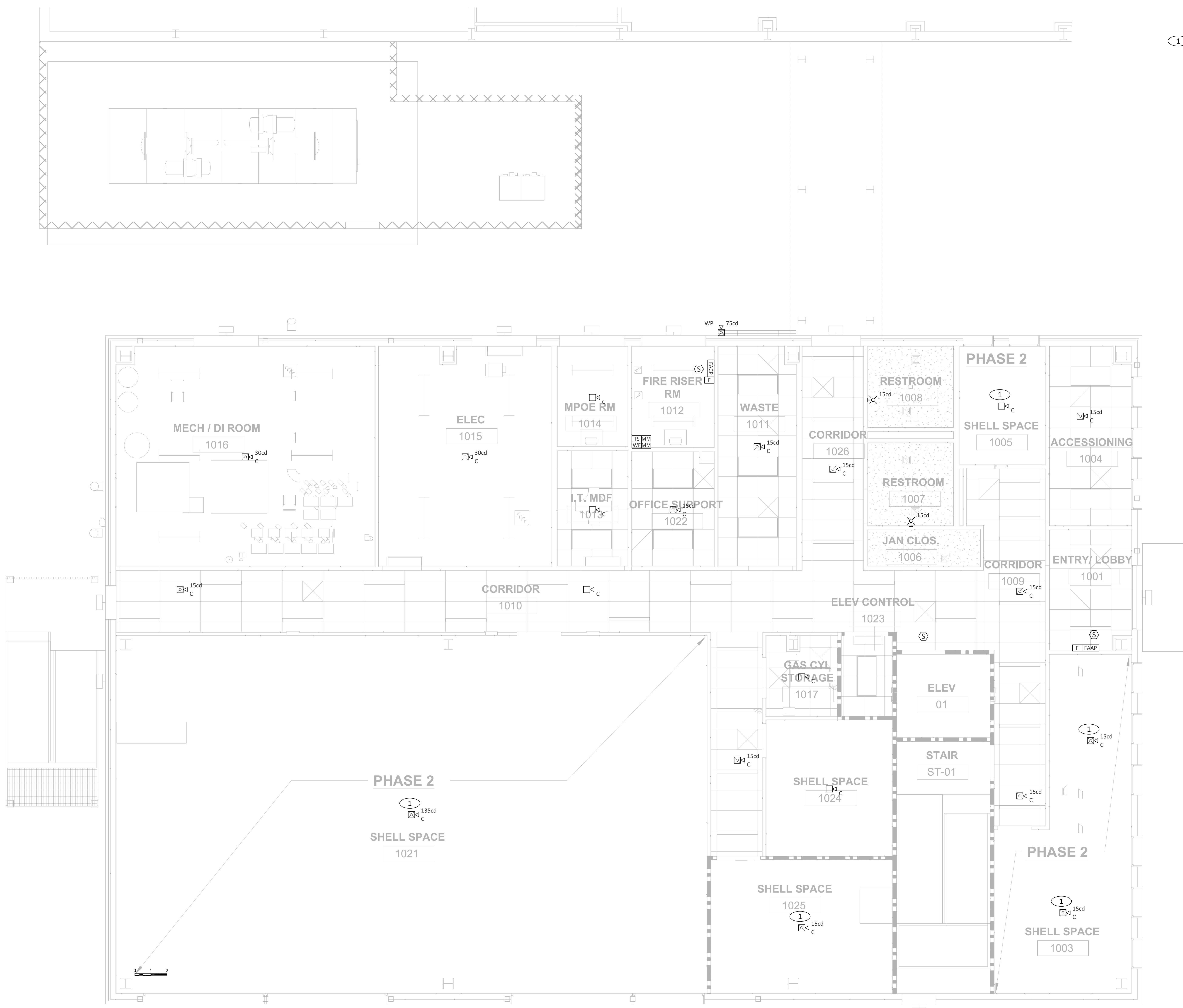
FLOOR/SECTION PHASE _____ DRAWING NO. _____

GENERAL NOTES:

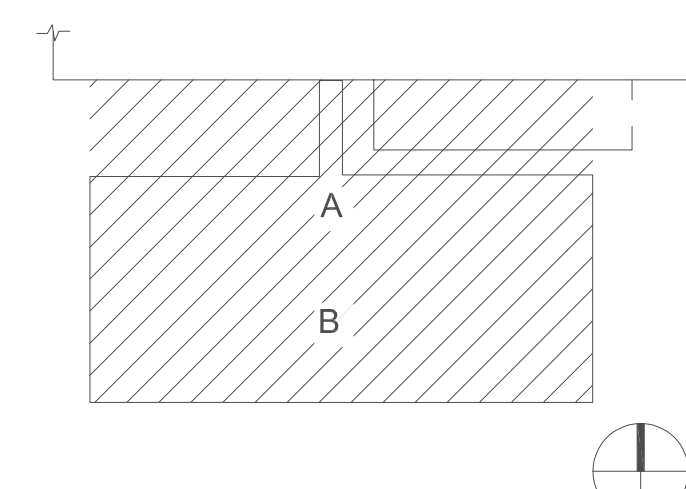
- DUCT DETECTOR TO BE ADDED TO ALL UNITS OVER 2,000 CFM.

SHEET NOTES

- SHELL TENANT SPACE TO HAVE MINIMAL APPLIANCES. COMPLETE COVERAGE TO BE PROVIDED DURING PHASE 2.

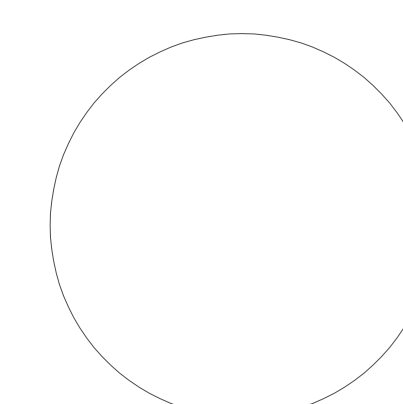


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DRAWING NAME

LEVEL 1 - FLOOR PLAN - FIRE ALARM

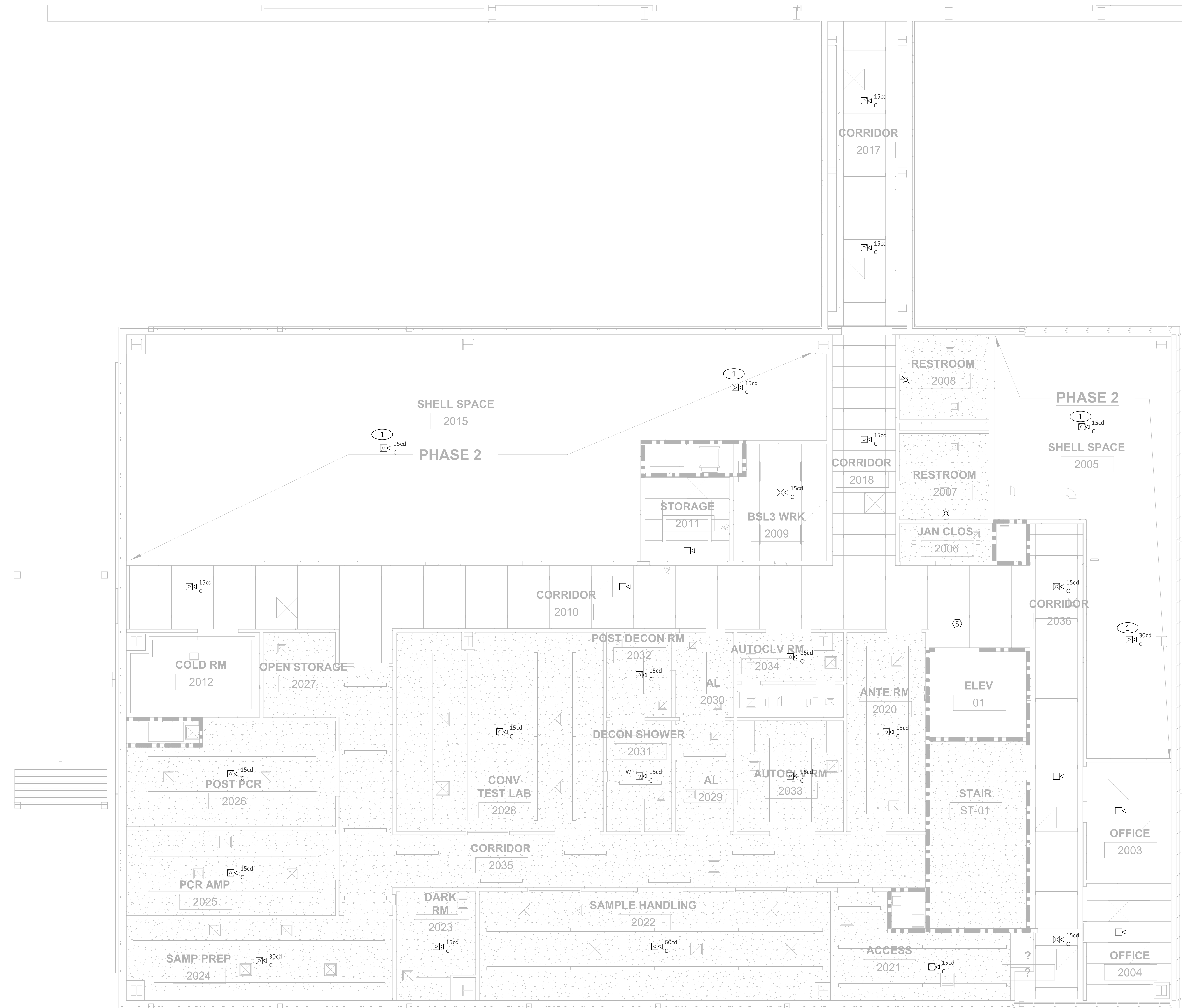
FLOOR/SECTION PHASE _____ DRAWING NO. _____

LEVEL 1 - FLOOR PLAN - FIRE ALARM
1/4" = 1' - 0" 23.0362 FA2.20

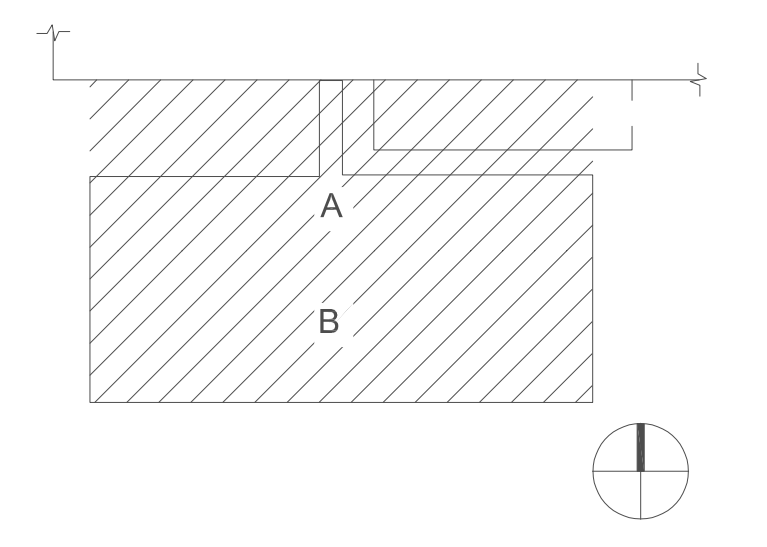


SHEET NOTES

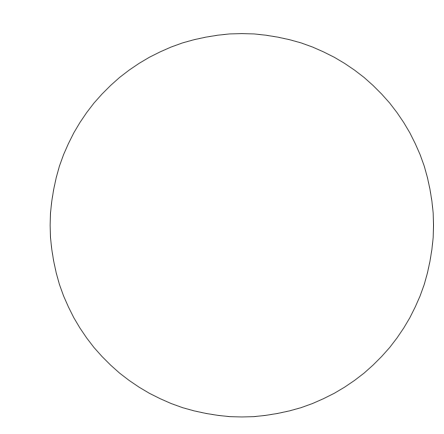
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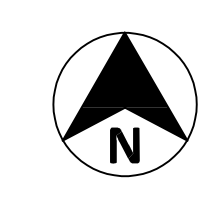
DRAWN BY _____ DATE _____

PROJECT NO. _____ SCALE _____

DRAWING NAME
LEVEL 2 - FLOOR PLAN - FIRE ALARM

FLOOR/SECTION PHASE _____ DRAWING NO. _____

LEVEL 2 - FLOOR PLAN - FIRE ALARM
1/4" = 1'0" 23.0362 FA2.21



NOT FOR CONSTRUCTION

FA2.21