



3525 OH-48, Lebanon, OH 45036

Bid / Permit Set



SHEET NO.	SHEET NAME
GENERAL	
G001	TITLE SHEET
G002	GENERAL NOTES AND SYMBOLS
G003	WALL TYPES
G004	LIFE SAFETY PLAN
CIVIL ENGINEERING	
C100	GENERAL NOTES AND DETAILS
C110	SURVEY BASEMAP
C111	SUPPLEMENTAL SURVEY BASEMAP
C120	DEMOLITION PLAN
C130	LOCATION PLAN
C140	UTILITY PLAN
C141	UTILITY PROFILES
C150	GRADING PLAN
C160	EROSION CONTROL NOTES
C161	EROSION CONTROL DETAILS
ARCHITECTURAL	
AS100	ARCHITECTURAL SITE PLAN
STRUCTURAL	
S001	STRUCTURAL COVER SHEET
S002	STRUCTURAL GENERAL NOTES
S003	STRUCTURAL SPECIAL INSPECTIONS
S004	STRUCTURAL SCHEDULES, DETAILS & DIAGRAMS
S101	FOUNDATION PLAN
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S201	FOUNDATION DETAILS AND SECTIONS
S301	FOUNDATION DETAILS AND SECTIONS
S302	FOUNDATION DETAILS AND SECTIONS
S311	ROOF FRAMING DETAILS AND SECTIONS
ARCHITECTURAL DEMO	
AD101	FIRST FLOOR PLAN - DEMO
AD200	DEMOLITION DETAILS AND SECTIONS
ARCHITECTURAL	
A101	FIRST FLOOR PLAN
A102	FIRST FLOOR DIMENSION PLAN
A121	REFLECTED CEILING PLAN
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A201	EXTERIOR ELEVATIONS
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A311	WALL SECTIONS
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A401	RESTROOM PLANS AND ELEVATIONS
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A411	INTERIOR ELEVATIONS
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F1.1	NEW WORK PLAN
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T002	TECHNOLOGY LEGEND
T003	TECHNOLOGY NOTES
T010	TECHNOLOGY SITE PLAN
T011	FIRST FLOOR COMPOSITE PATHWAY RCP
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T201	SECURITY ENLARGED FLOOR PLAN
T401	TECH ROOM 615 ENLARGED AND ELEVATION PLANS
T501	COMPOSITE PATHWAY DETAILS
T502	DATA DETAILS
T504	AUDIO VISUAL DETAILS
T510	SECURITY DETAILS
T601	AUDIO VISUAL SCHEDULES
T602	SECURITY SCHEDULES
T603	DATA DROP SCHEDULE

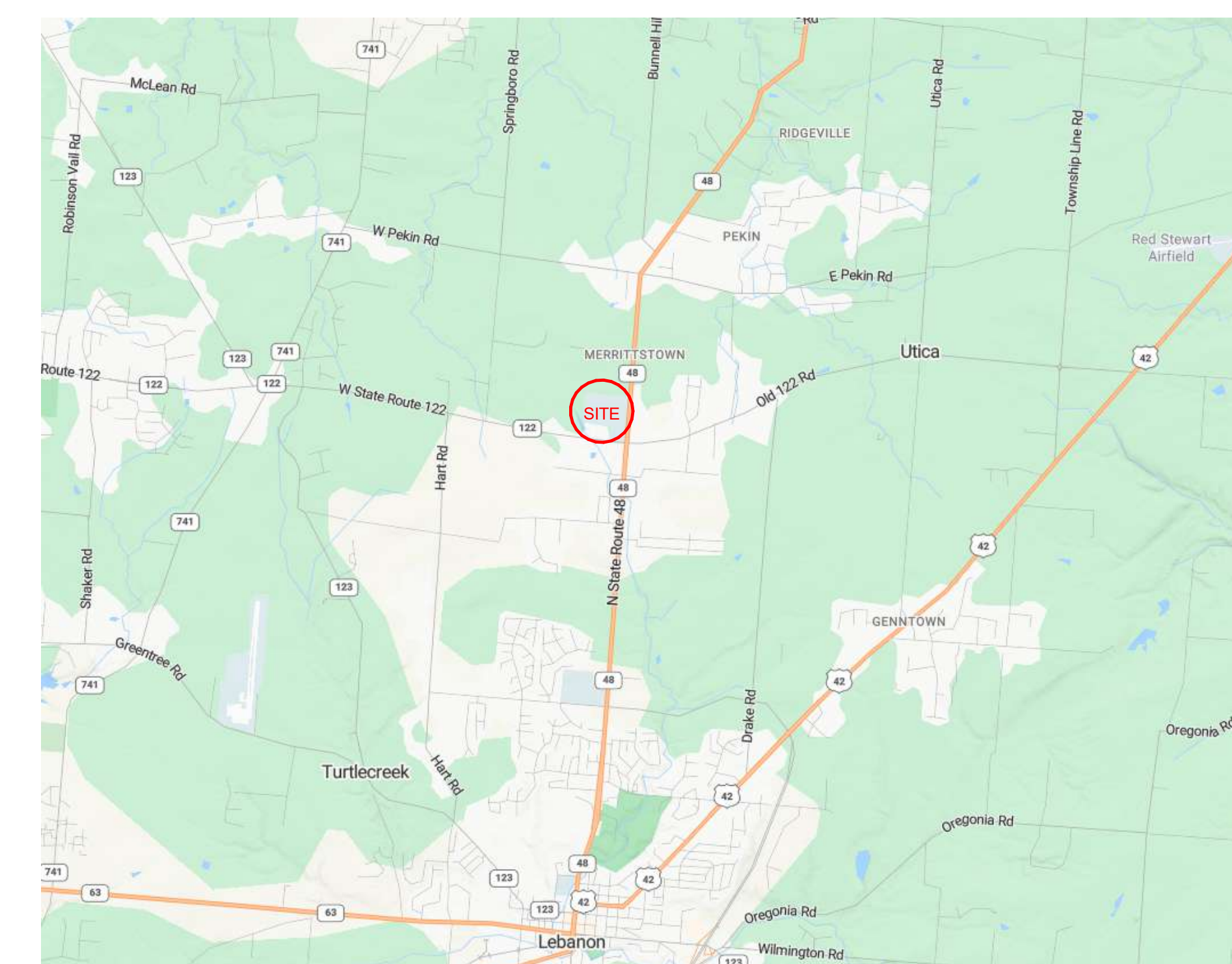
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CONSULTANTS

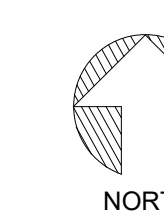
**WARREN COUNTY
CAREER CENTER
MEDICAL ACADEMY**



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VICINITY MAP



PROJECT NO:
PROJECT
#263306.00
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Author
DATE:

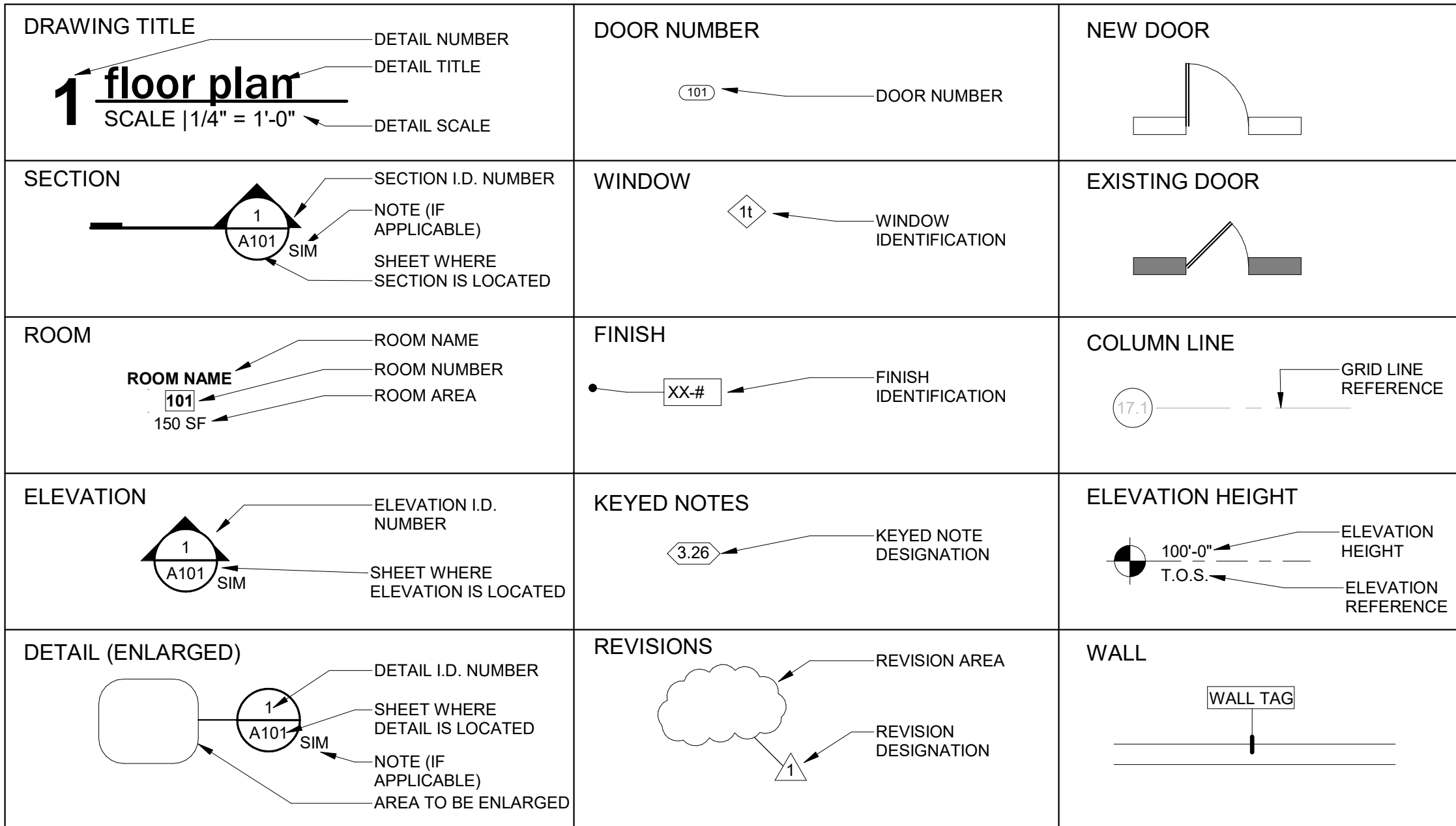
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30111 NEUMARK DRIVE
0-937.224.1931



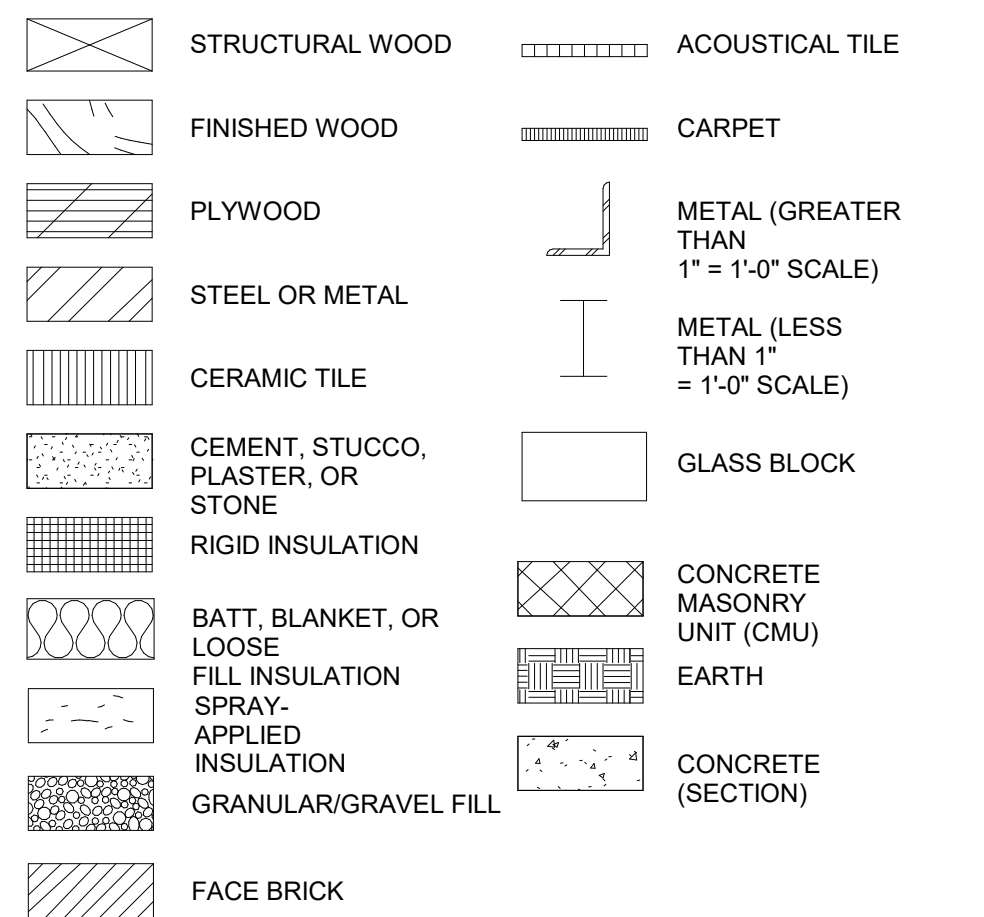
TITLE SHEET

G001

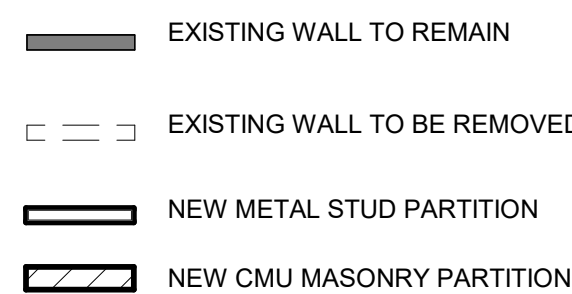
SYMBOLS



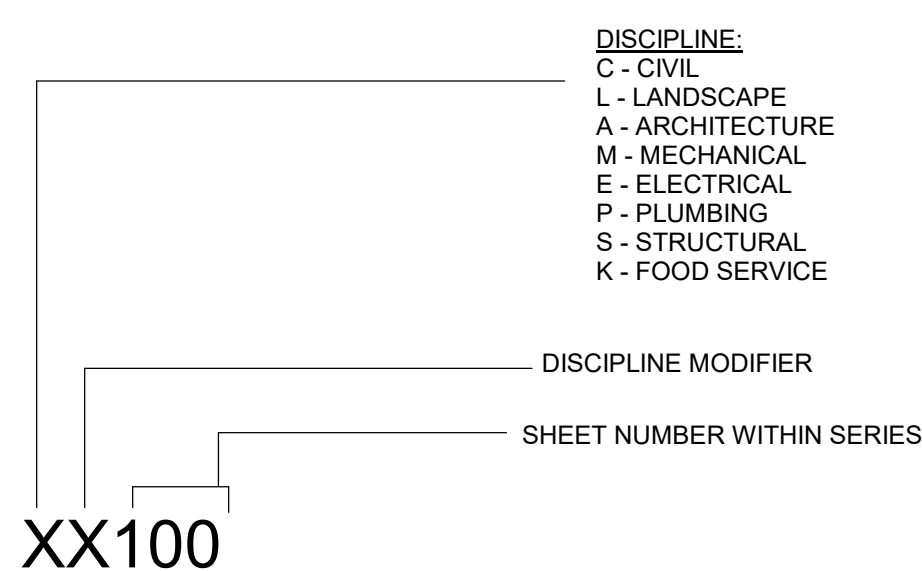
MATERIAL INDICATIONS



WALL INDICATIONS



SHEET DESIGNATION



GENERAL NOTES

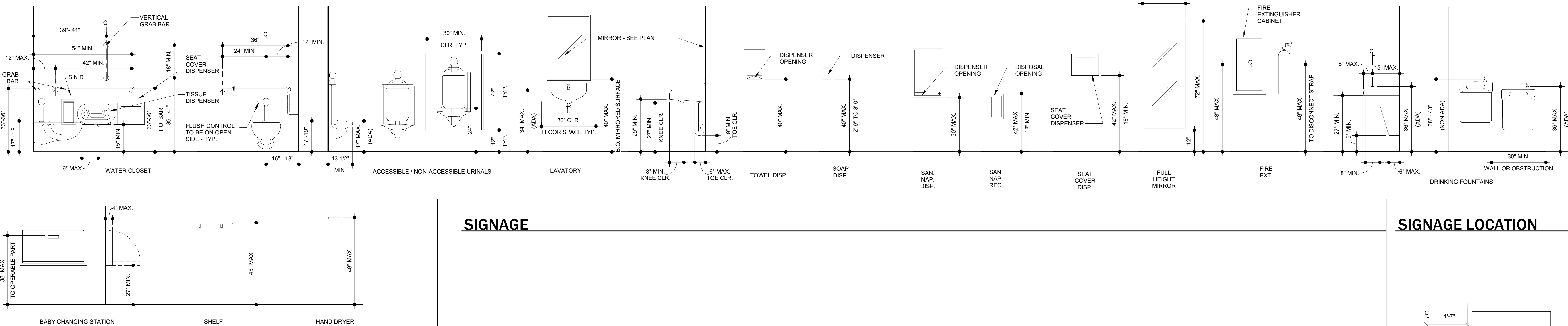
- A. CONTRACTORS SHALL REVIEW THE EXISTING CONDITIONS PRIOR TO SUBMITTING PROPOSAL. NOTIFY ARCHITECT PRIOR TO SUBMITTING PROPOSAL IF CONDITIONS EXIST WHICH CONFLICT WITH THE PROPOSED WORK AND FINISHES. IF THIS NOTIFICATION DOES NOT OCCUR, THEN THE CONTRACTOR, WILL BE RESPONSIBLE FOR ANY ADDITIONAL COSTS.
- B. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE SITE ACCESS, MATERIAL STAGING AREAS, AND DEMOLITION WORK FOR THE PROJECT. ALL MATERIALS AND DEBRIS SHALL BE DELIVERED AND REMOVED FROM THE SITE AS DIRECTED BY THE OWNER.
- C. CONTRACTOR'S BID SHALL INCLUDE THE GREATEST QUANTITY AND QUALITY OF ALL ITEMS AND ASSEMBLIES FOR A COMPLETE AND FULLY OPERATIONAL PROJECT IN ACCORDANCE WITH OWNERS, ARCHITECTS, AND GOVERNING AUTHORITY REQUIREMENTS.
- D. CONTRACTOR SHALL PROPERLY PLAN AND EXECUTE WORK RELATIVE TO AND IN CONSIDERATION OF WORK TO BE PERFORMED BY OTHERS IN ORDER TO MITIGATE ALL IMPACTING ISSUES AND CONFLICTS. NO EXTRA COSTS FOR THE LACK OF PROPER PLANNING AND EXECUTION WILL BE PERMITTED.
- E. CONTRACTOR SHALL VERIFY AS-BUILT CONDITIONS FOR ANY MATERIAL DIFFERENCE PRIOR TO PERFORMING ANY WORK AND SHALL NOTIFY THE ARCHITECT AND CONSTRUCTION MANAGER OF ANY DISCREPANCIES.
- F. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A WEATHER TIGHT BUILDING DURING CONSTRUCTION.
- G. ALL CONTRACTORS SHALL BE RESPONSIBLE FOR REVIEWING THE CONTRACT DOCUMENTS WHICH INCLUDES BUT IS NOT LIMITED TO THE PLANS, SPECIFICATIONS, AND THE ADDENDA. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE BINDING AS IF REQUIRED BY ALL.

ABBREVIATIONS

& Z @ # X# #	AND ANGLE AT CENTERLINE SQUARE POUND OR NUMBER	CHAM CHK. BD. C.I. C.L. C.L.G. CLO CLR CMU CNTR COL COMB COMPT CONC CONF CONN CONST CONTIG COORD CORR CP CS CSMT CTR CTK CW	CHAMFER CHALK BOARD CAST IRON CONTROL JOINT CEILING CAULKING CLOSET CLEAR CONCRETE MASONRY UNIT COUNTER CLEAN OUT COLUMN COMBINATION COMPART CONCRETE CONFERENCE CONNECTION CONSTRUCTION CONTIGUOUS COORDINATE CORRIDOR CLOSURE PANEL OR FINISHED PANEL CUPSINK, SEE SPECIFICATIONS FOR SIZE CASEMENT ARCHITECT (JRAL) CENTER COUNTERSUNK COLD WATER	DWR DWG E EA E.C.C. EJ EL or ELEV ELC EMER ENLARGD ENLGRD EQ EQUIP ES EW EWC EXH EX or EXIST EXPO EXP EXT	DRAWER DRAWING (S) EAST OR ELECTRIC OUTLET, COORDINATE WITH ELECTRICAL CONTRACTOR EACH ENVIRONMENTAL CONTROL CHAMBER ELEVATION OF ELEVATOR ELECTRICAL EMERGENCY ENCLOSURE ENLARGED ELECTRICAL PANEL EQUAL EQUIPMENT ES EMERGENCY SHOWER STATION BY PLUMBING CONTRACTOR ELECTRIC EYEWASH BY PLUMBING CONTRACTOR EXHAUST EXISTING EXPANDED ELECTRIC WATER COOLER EXTERIOR	FRP FS FSC FT FTG FURR FUT FV G# GA GB GL GND GR GT GYP	FIBERGLASS REINFORCED PLASTIC FILLER STRIP or FULL SIZE FLAMMABLE STORAGE CABINET FOOT OR FEET FOOTING FURRING FUTURE FIELD VERIFY GAS COCK WITH NUMBER OF VALVES INDICATED GALV GRAB BAR GLASS or GRID LINE GROUND GUARD RAIL or GROUND GROUT GYPSUM	L LAB LAM LAV LH LKR LOC LTD LTL LTV LVR	LEFT LABORATORY LAMINATE LAVATORY LEFT HAND LOCKER LOCATION LEAD LINED DOOR LIGHT LIMITED LOUVER	OA OC OD OFF OH OPH OPN OPS	OVERALL ON CENTER OUTSIDE DIAMETER (DIA) OFFICE OVERHEAD OPPOSITE HAND OPENING OPPOSITE OPPOSITE SURFACE	PRCST PB PBD PCF PERF PERI PL PLF PLAM PLAS PLYWD PNL PORT PPG PR PS PSI PT PTD/PTN	PRE CAST PANIC BAR PARTICLE BOARD POUNDS PER CUBIC FOOT PERFORATE (D) PERIMETER PLATE GLASS PLATE POUNDS PER LINEAR FOOT PLASTIC LAMINATE PLASTER PLYWOOD PANEL PORTABLE POLISHED PLATE GLASS PAIR PULL SCREEN POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POINT or PRESSURE TREATED PAPER TOWEL DISPENSER/RECEPTICAL PARTITION	RGTR RH RM R.O. RS RWC RWL	REGISTER RIGHT HAND ROOM ROUGH OPENING REAGENT SHELF or ROUGH SAWN RAIN WATER CONDUCTOR RAIN WATER LEADER	S SAB SB SC SCHED SD SECT SFRM SF GL SG SH SHGC SHR SHT SIM SKL SND or SNR SP SPEC SPK SPL SQ SS STA STD STL STOR STR SUSP SYM SYN SYS	SOUTH SOUND ATTENUATION BLANKET SMOKE BARRIER or SINK BASE SOLID CORE SCHEDULE STORM DRAIN or SOAP DISPENSER SECTION SPRAY APPLIED FIRE RESISTIVE MATERIAL SAFETY GLASS SHEET GLASS SHELF SOLAR HEAT GAIN COEFFICIENT SHOWER SHEET SIMILAR SKYLIGHT SLOPE SANITARY NAPKIN DISPENSER/RECEPTICAL SOUND PROOF SPECIFICATION SPEAKER SPECIAL SQUARE STAINLESS STEEL STATION STANDARD STEEL STORAGE STRUCTURAL SUSPENDED SYMMETRICAL SYNTHETIC SYSTEM	TB TEL T&G THK TJ TO TV TYP	TACK BOARD TELEPHONE TONGUE & GROOVE THICK TOOLED JOINT TOP OF TELEVISION TYPICAL	UNF UN or UNO UR	UNFINISHED UNLESS OTHERWISE NOTED URINAL	V# VAR VB VCT VERT VEST VF VF VNR VNT VWC	VACUUM WITH NUMBER OF VALVES INDICATED VARNISH VINYL BASE VINYL COMPOSITION TILE VERTICAL VESTIBULE VINYL FABRIC VERIFY IN FIELD VENER VINYL TILE VINYL WALL COVERING	W WB WC WD WG WM WIO WP WRB WSCOT WT WWF	WEST WITH WOOD BASE WALL CABINET WOOD WIRED GLASS WIRE MESH WITHOUT WATER PROOF WEATHER RESISTIVE BARRIER WAINSCOT WEIGHT WELDED WIRE FABRIC	XMF	TRANSFORMER
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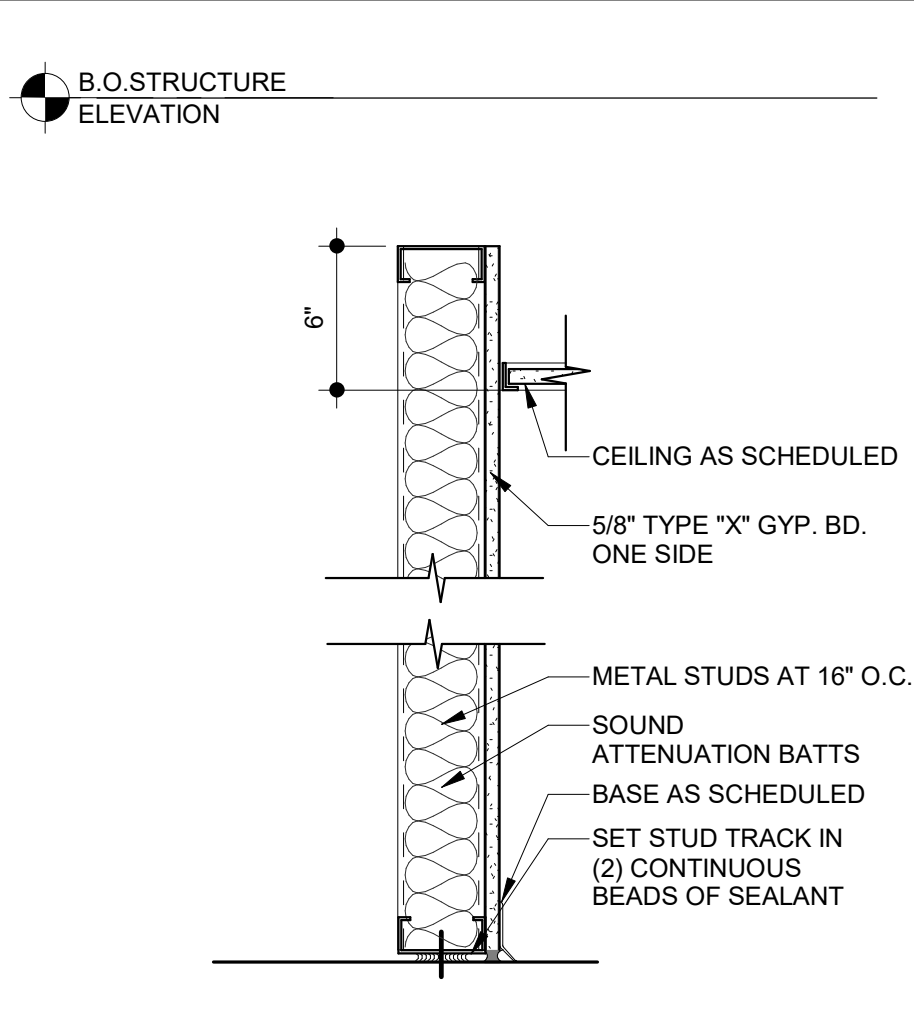
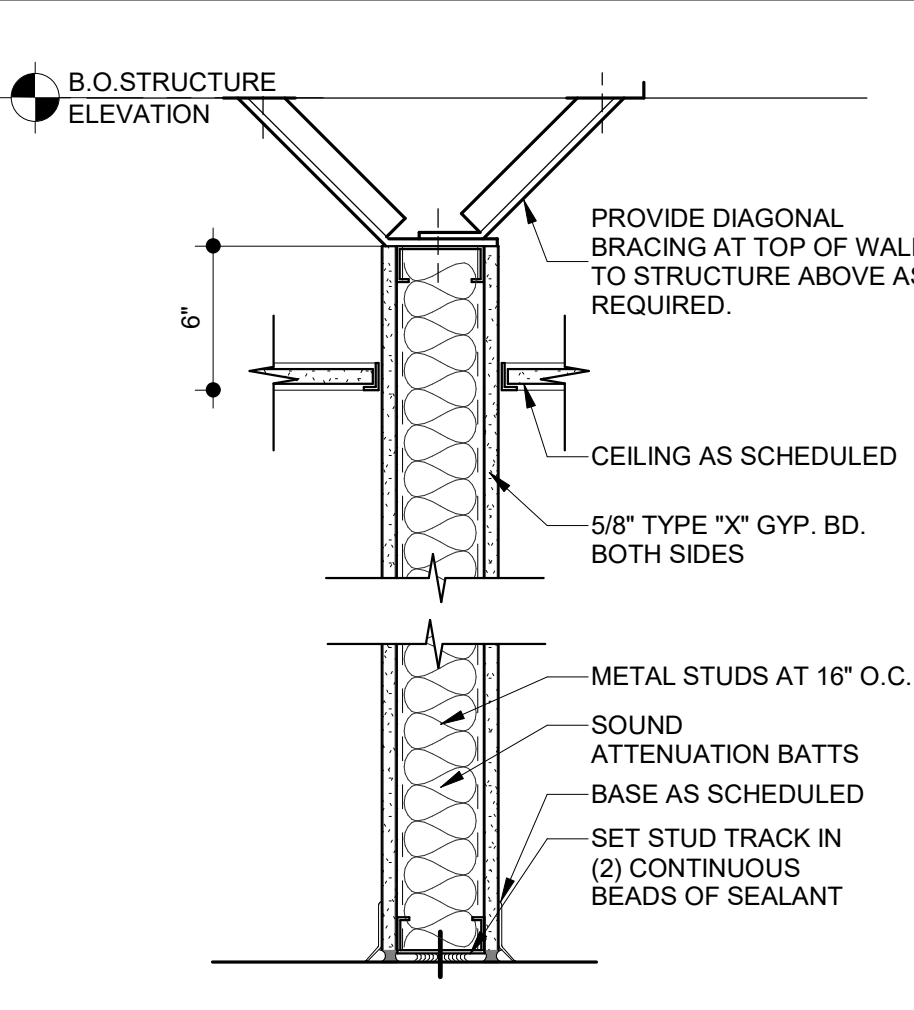
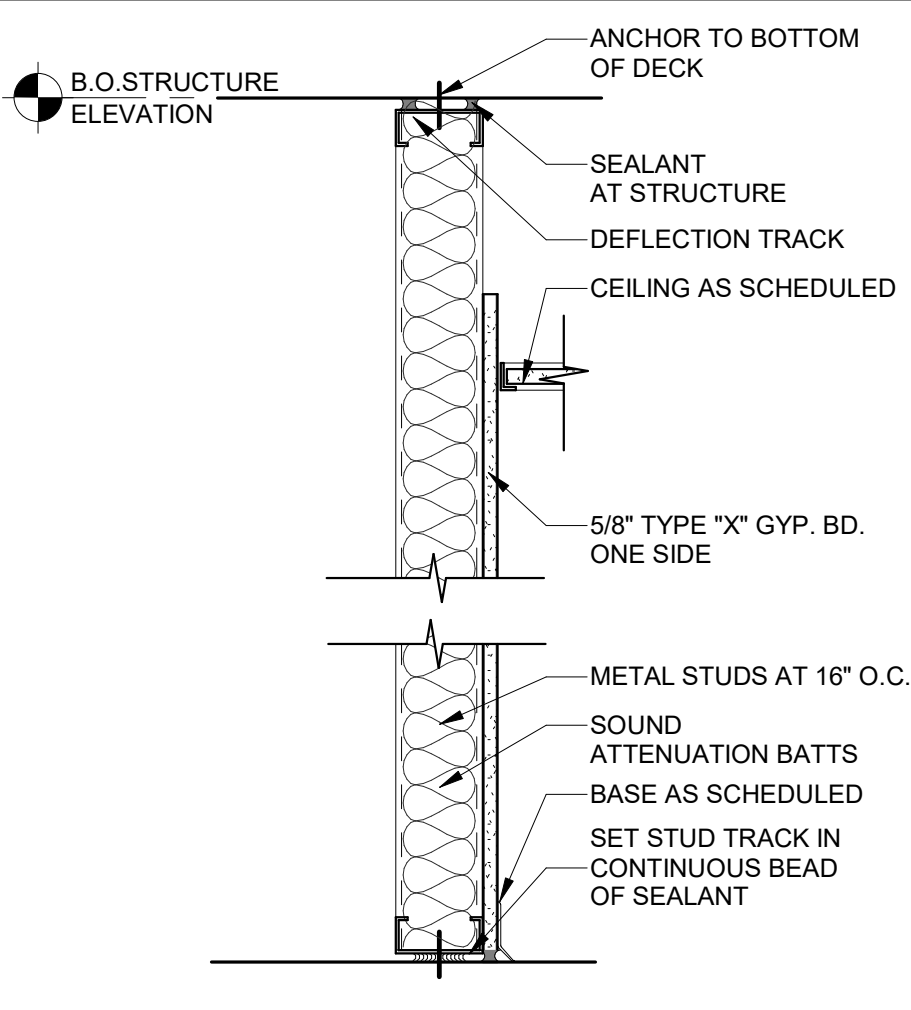
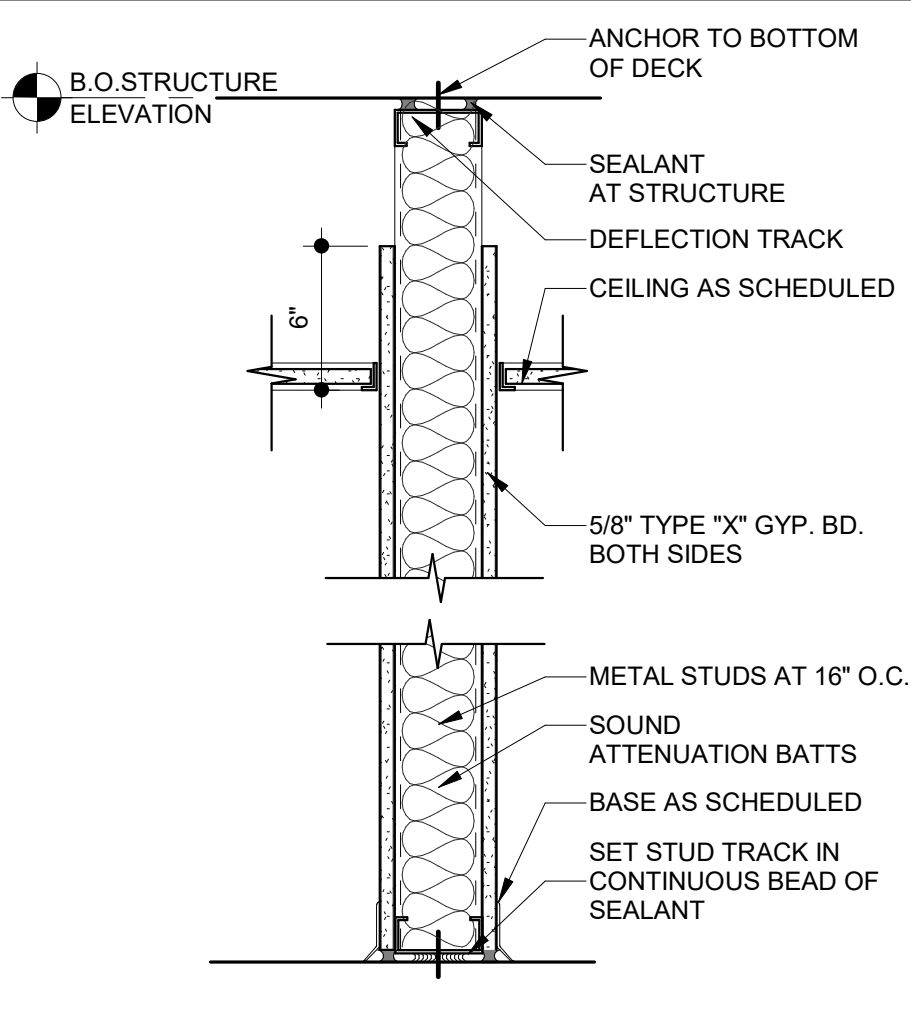
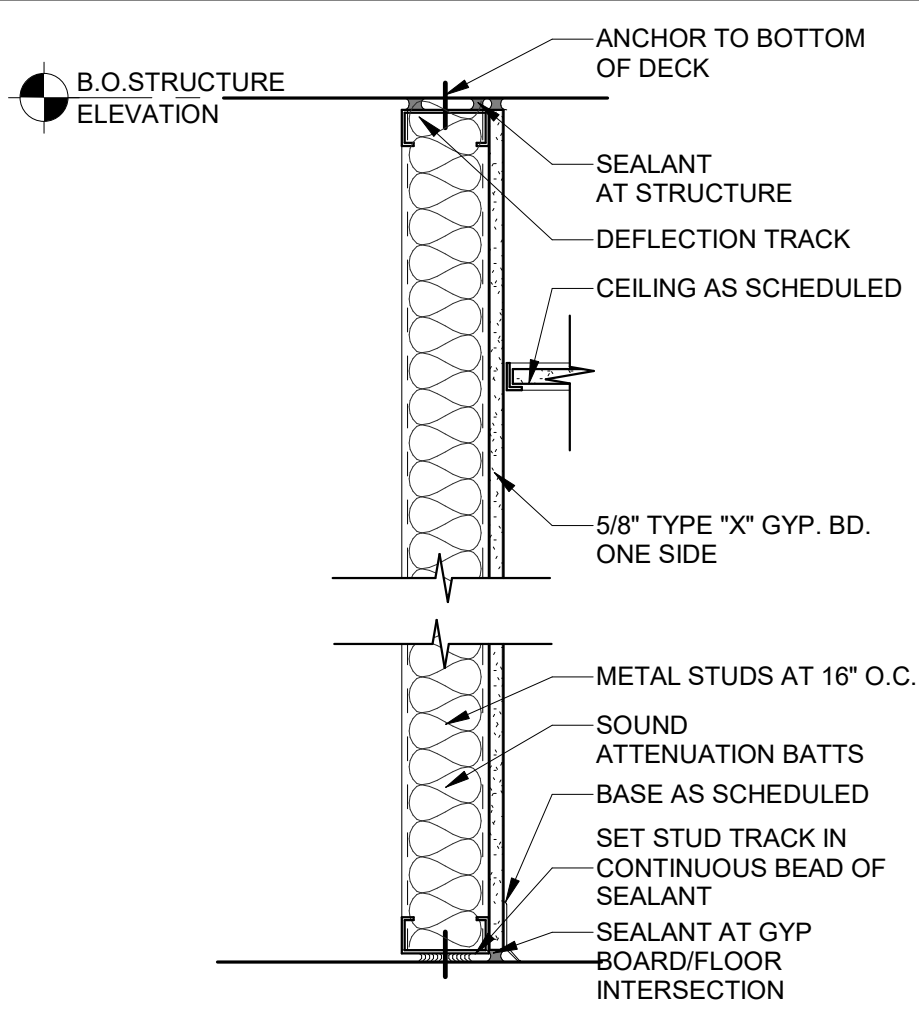
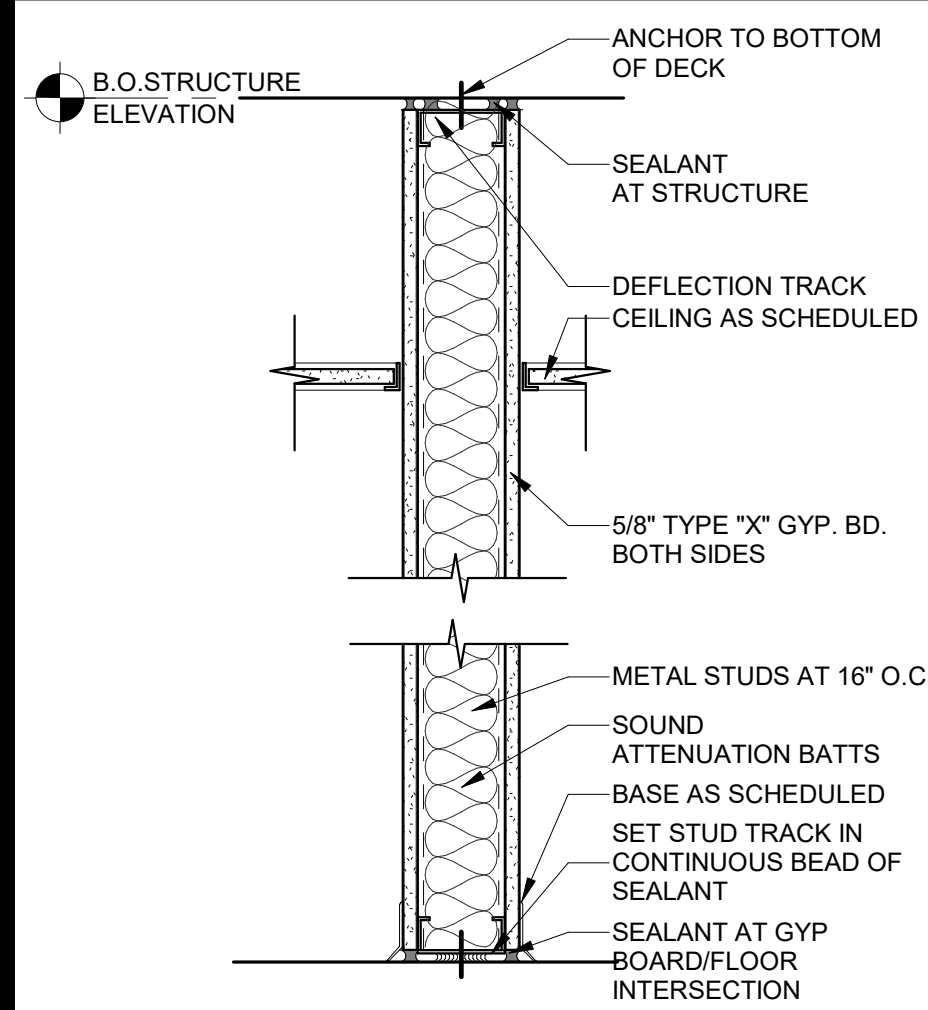
MOUNTING HEIGHTS

NOTE: ALL ITEMS SHALL BE MOUNTED IN ACCORDANCE WITH OBC CHAPTER 11 (CURRENT VERSION)
(CONTRACTOR NOTE: NOT ALL THE FOLLOWING ITEMS ARE USED IN THIS PROJECT - SEE DRAWINGS & SPECS FOR ADDITIONAL DETAILS. ALL DIMENSIONS ARE NOT TO SCALE.)



INTERIOR PARTITION TYPES

NOTE: NOT ALL WALL TYPES WILL BE USED IN THIS PROJECT



A NON-RATED
UL: N/A

Z 1HR RATED
UL: U419

B

C

D

E

F

STUD SIZE SUFFIX / WIDTH CHART

STUD SIZE SUFFIX / WIDTH CHART

STUD SIZE SUFFIX / WIDTH CHART

STUD SIZE SUFFIX / WIDTH CHART

STUD SIZE SUFFIX / WIDTH CHART

STUD SIZE SUFFIX / WIDTH CHART

SUFFIX	STUD SIZE	TOTAL WIDTH	STC
A1 or Z1	3 5/8"	4 7/8"	40 (49 w/ 3" SAB)
A2 or Z2	6"	7 1/4"	
A3 or Z3	8"	9 1/4"	

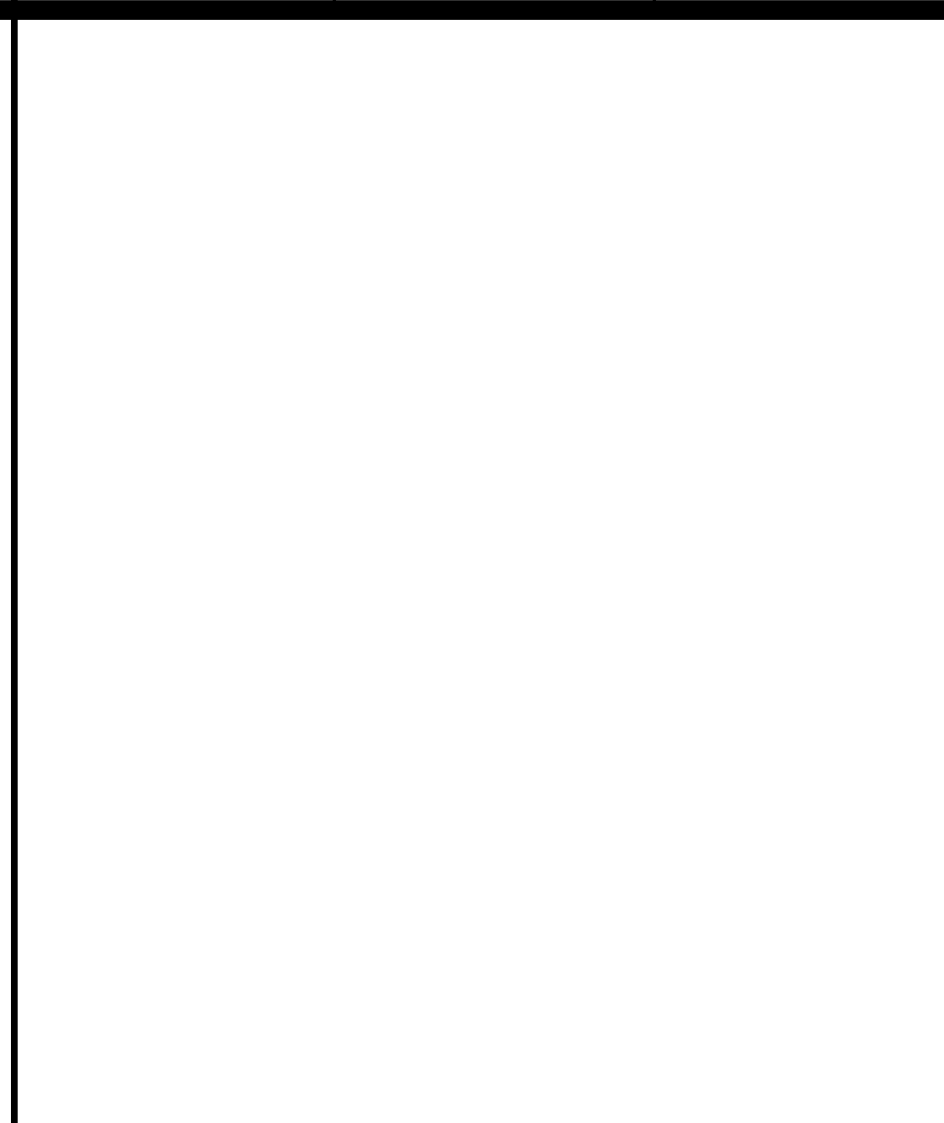
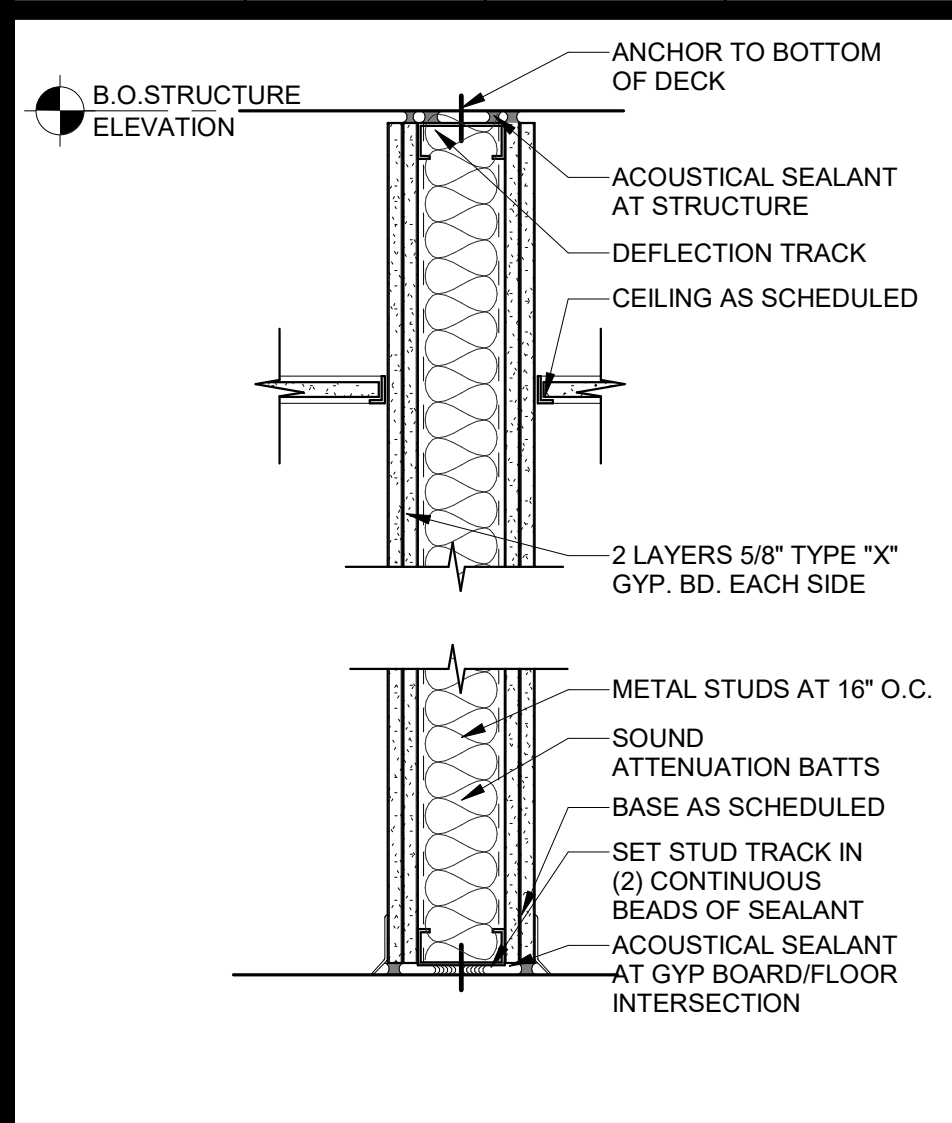
SUFFIX	STUD SIZE	TOTAL WIDTH
B1	3 5/8"	4 1/4"
B2	6"	6 5/8"
B3	8"	8 5/8"

SUFFIX	STUD SIZE	TOTAL WIDTH
C1	3 5/8"	4 7/8"
C2	6"	7 1/4"
C3	8"	9 1/4"

SUFFIX	STUD SIZE	TOTAL WIDTH
D1	3 5/8"	4 1/4"
D2	6"	6 5/8"
D3	8"	8 5/8"

SUFFIX	STUD SIZE	TOTAL WIDTH
E1	3 5/8"	4 7/8"
E2	6"	7 1/4"
E3	8"	9 1/4"

SUFFIX	STUD SIZE	TOTAL WIDTH
F1	7/8"	1 1/2"
F2	2 1/2"	3 1/8"
F3	3 5/8"	4 1/4"
F4	6"	6 5/8"



H NON-RATED
UL: N/A

Y 2-HOUR RATED
UL: U419

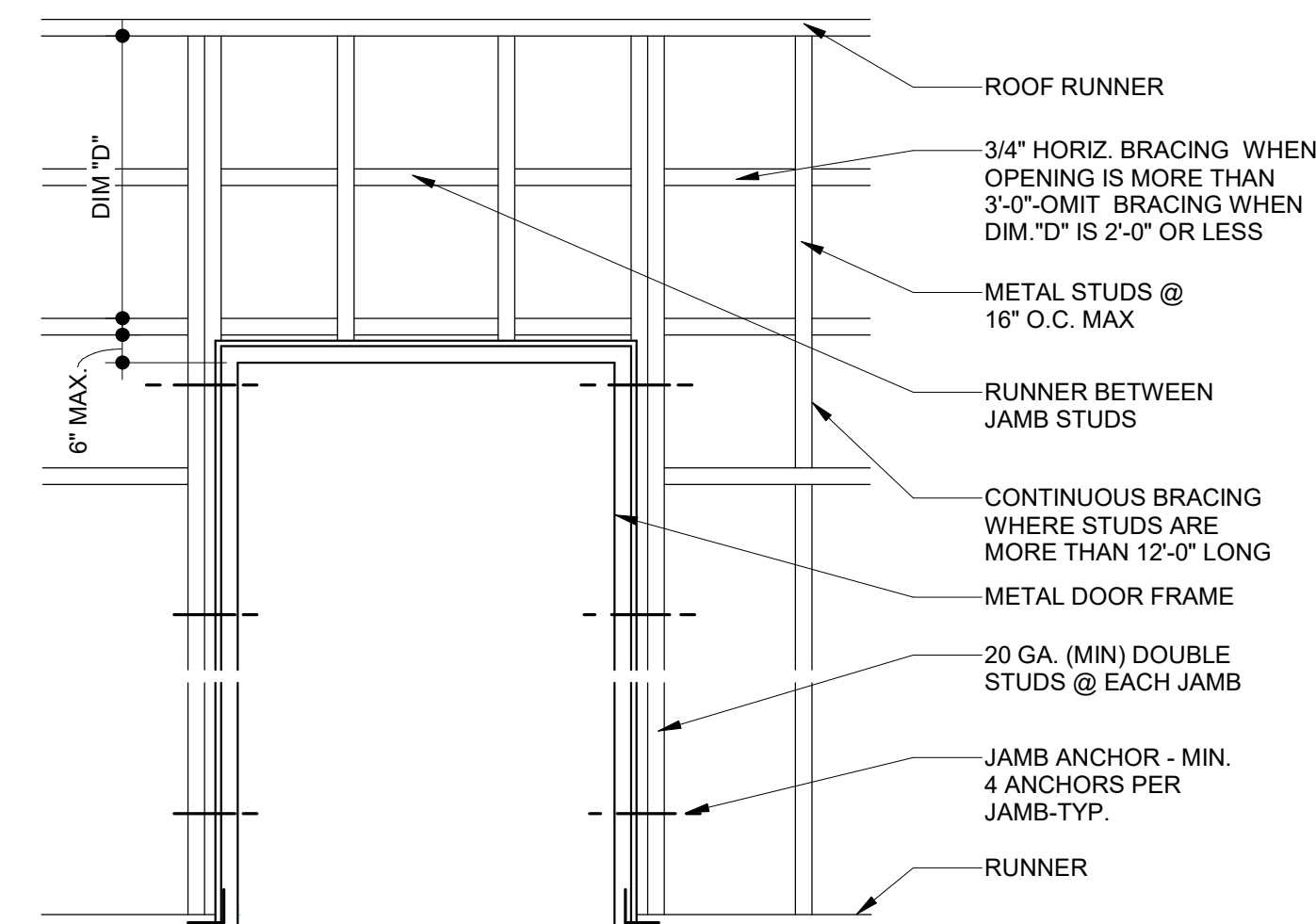
STUD SIZE SUFFIX / WIDTH CHART

CMU SIZE

SUFFIX	STUD SIZE	TOTAL WIDTH	STC
H1 OR Y1	3 5/8"	6 1/8"	54
H2 OR Y2	6"	8 1/2"	58

SUFFIX
J1
J2
J3

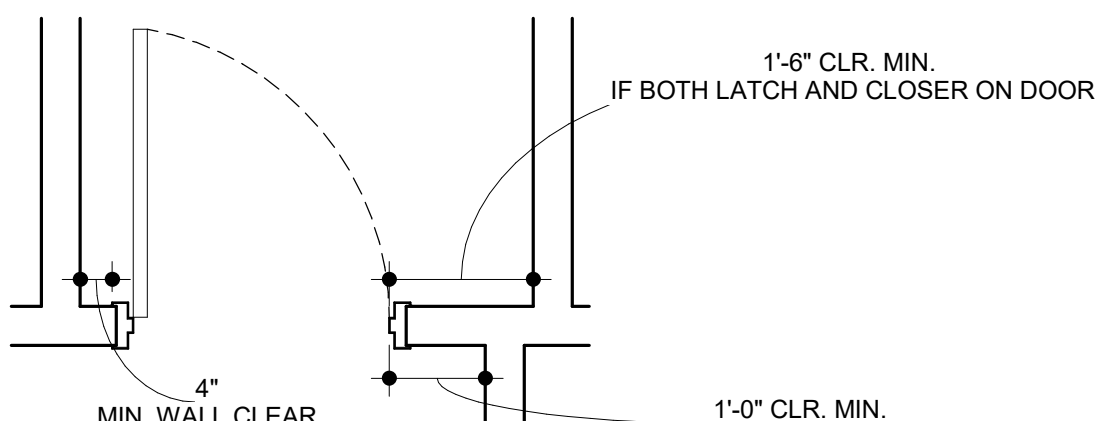
TYPICAL PLAN WALL DETAILS



DOOR FRAMING DETAIL

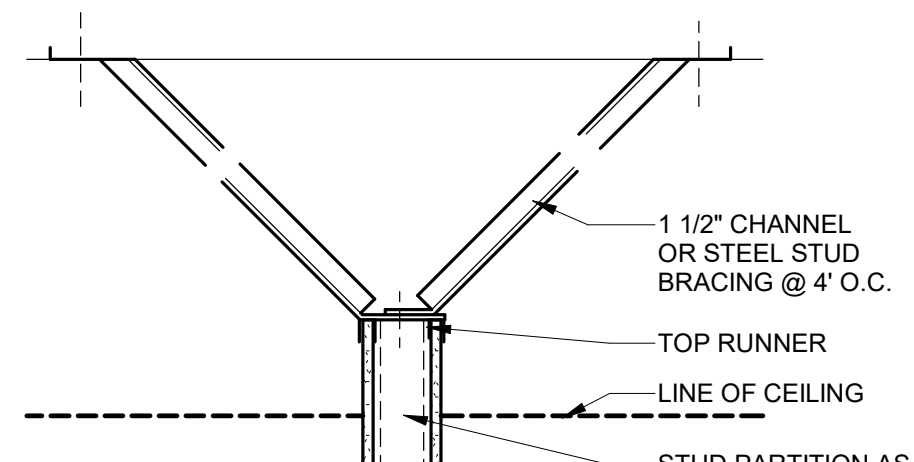
SCALE: N.T.S.

REF: USG GYPSUM CONSTRUCTION HANDBOOK



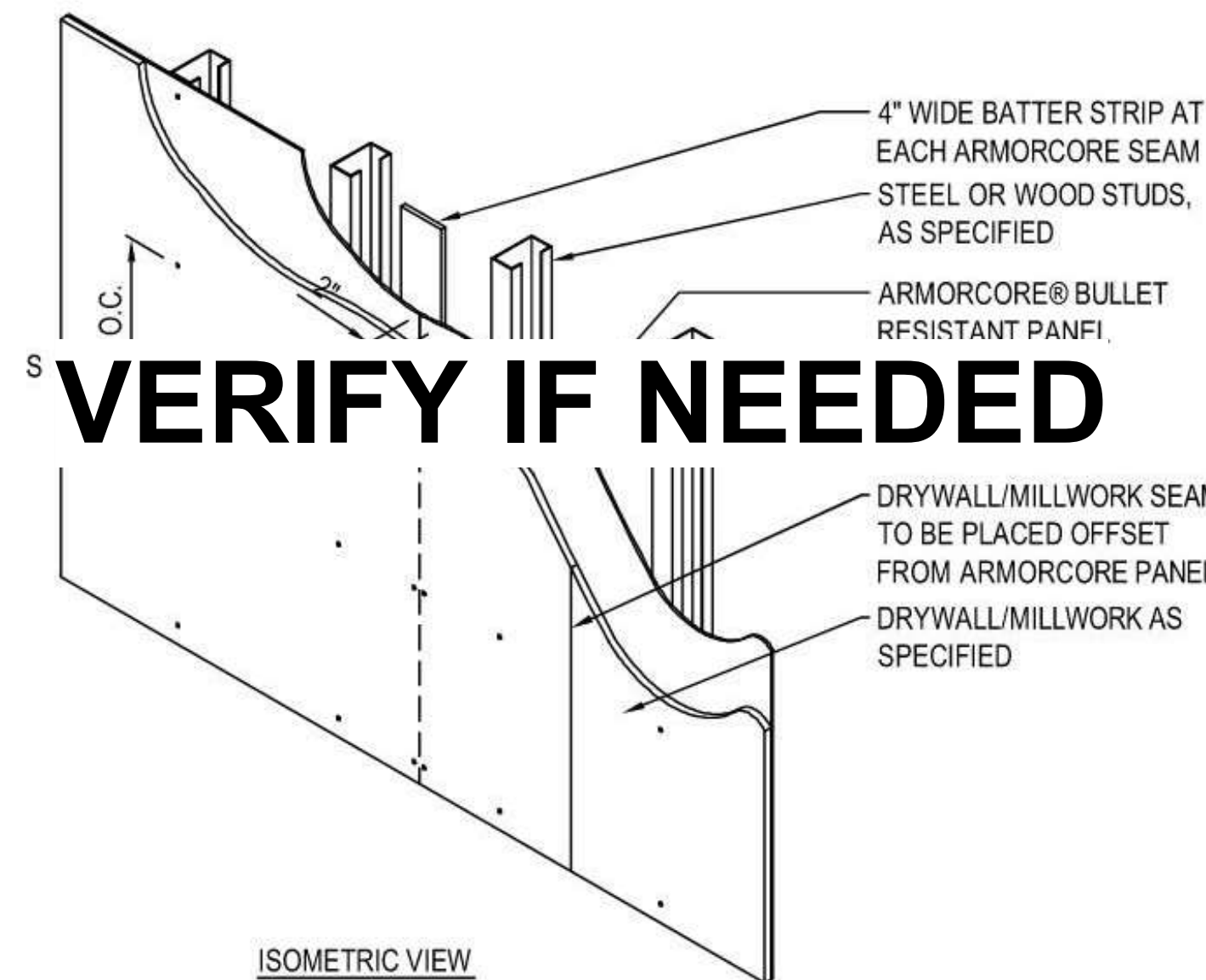
DOOR LOCATION DETAIL

SCALE: N.T.S.



WALL BRACING DETAIL

SCALE: N.T.S.



ISOMETRIC VIEW

NOTES:

1. SEE LIFE SAFETY DRAWINGS FOR LOCATIONS OF RATED PARTITIONS
2. ALL GYPSUM WALL BOARD TO BE TYPE "X" UNLESS OTHERWISE SPECIFIED
3. PROVIDE TILE BACKERBOARD ON ALL WALL SCHEDULE TO RECEIVE TILE FINISH
4. WALL FINISHES VARY. REFER TO FINISH SCHEDULE, INTERIOR ELEVATIONS, AND DETAILS FOR ALL PARTITIONS
5. MAINTAIN FIRE RATING AND ACOUSTICAL RATING OF PARTITIONS AROUND FIRE EXTINGUISHER CABINETS, ELECTRICAL BOXES, AND OTHER RECESSED ITEMS
6. FIRE-RATED PARTITIONS SHALL HAVE FIRE STOP SEALANTS AT THE HEAD, SILL, THROUGH PENETRATIONS, OPENINGS AND JUNCTIONS WITH DISSIMILAR MATERIALS
7. NON-RATED PARTITIONS SHALL HAVE SEALANTS AT THE HEAD, SILL, THROUGH PENETRATIONS, OPENINGS AND JUNCTIONS WITH DISSIMILAR MATERIALS
8. ALL STUD WALLS CONSTRUCTED TO DECK SHALL HAVE A DEFLECTION TRACK TO ACCOMMODATE MOVEMENT OF THE STRUCTURE. ALL DEFLECTION TRACK SHALL ACCOMMODATE A MINIMUM OF 1" DEFLECTION OF THE STRUCTURE.



Mark C. Wiseman, License #13215
Expiration Date 12/31/2027

REVISIONS:	Number	Description	Date
PRINTINGS:	Bld / Permit Set		
	09112025		

CONSULTANTS

**WARREN COUNTY
CAREER CENTER
MEDICAL ACADEMY**
3525 OH-48, Lebanon, OH 45036



PROJECT NO: PROJECT #263306.00
CHECKED BY: Checker
DRAWN BY: Author
DATE: 09112025

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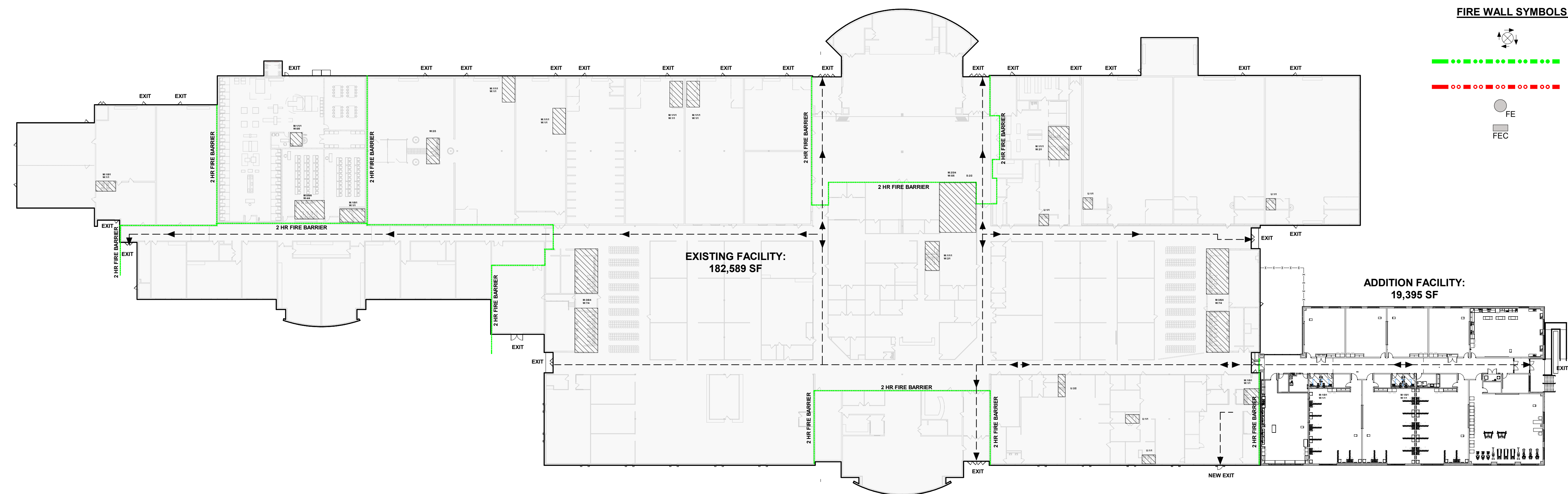


WALL TYPES

G003

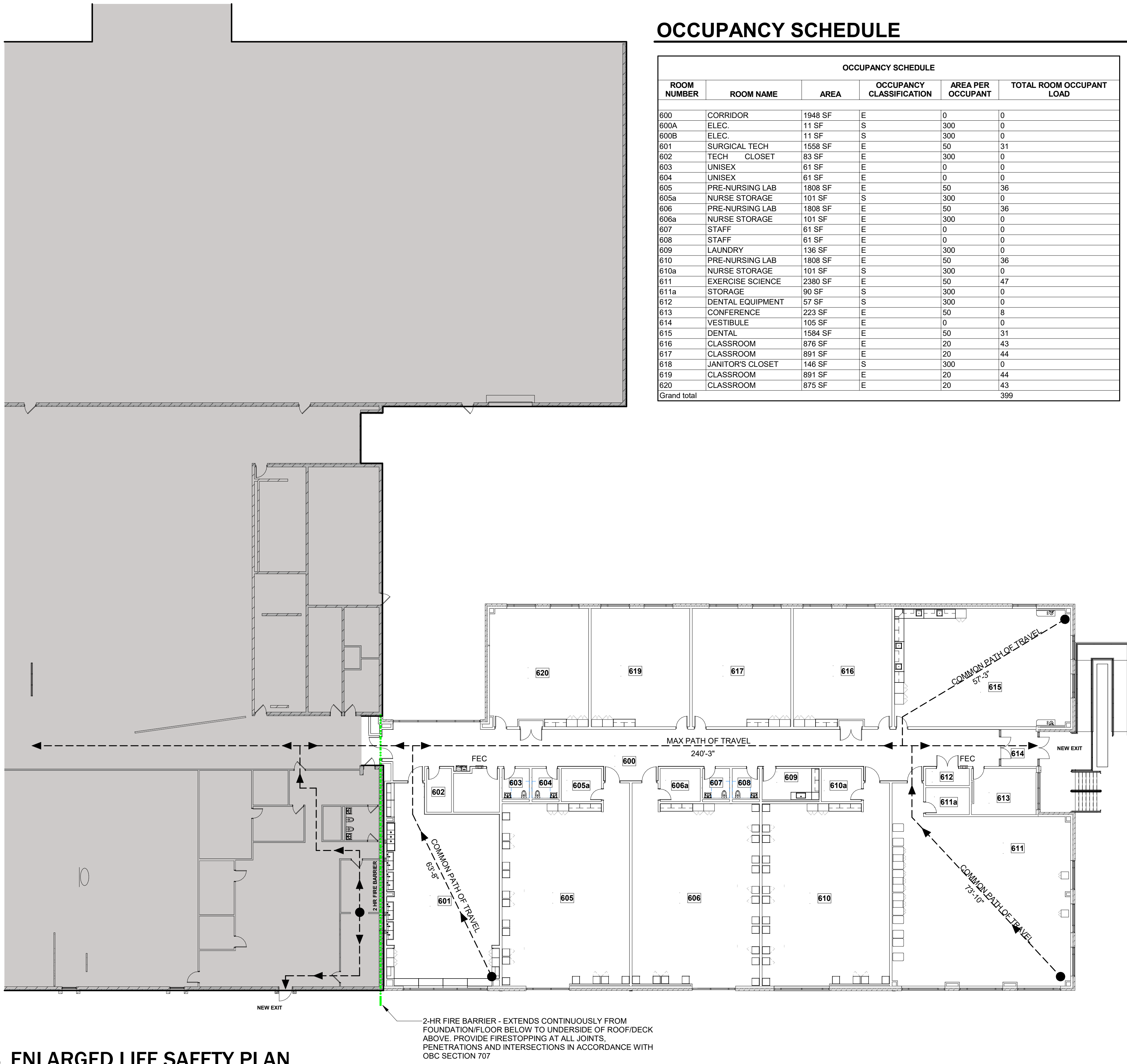
26 OVERALL LIFE SAFETY PLAN

SCALE | 1" = 40'-0"



28 ENLARGED LIFE SAFETY PLAN

SCALE | 1/16" = 1'-0"



OCCUPANCY SCHEDULE

OCCUPANCY SCHEDULE					
ROOM NUMBER	ROOM NAME	AREA	OCCUPANCY CLASSIFICATION	AREA PER OCCUPANT	TOTAL ROOM OCCUPANT LOAD
600	CORRIDOR	1948 SF	E	0	0
600A	ELEC.	11 SF	S	300	0
600B	ELEC.	11 SF	S	300	0
601	SURGICAL TECH	1558 SF	E	50	31
602	TECH CLOSET	83 SF	E	300	0
603	UNISEX	61 SF	E	0	0
604	UNISEX	61 SF	E	0	0
605	PRE-NURSING LAB	1808 SF	E	50	36
605a	NURSE STORAGE	101 SF	S	300	0
606	PRE-NURSING LAB	1808 SF	E	50	36
606a	NURSE STORAGE	101 SF	E	300	0
607	STAFF	61 SF	E	0	0
608	STAFF	61 SF	E	0	0
609	LAUNDRY	136 SF	E	300	0
610	PRE-NURSING LAB	1808 SF	E	50	36
610a	NURSE STORAGE	101 SF	S	300	0
611	EXERCISE SCIENCE	2390 SF	E	50	47
611a	STORAGE	90 SF	S	300	0
612	DENTAL EQUIPMENT	57 SF	S	300	0
613	CONFERENCE	223 SF	E	50	8
614	VESTIBULE	105 SF	E	0	0
615	DENTAL	1584 SF	E	50	31
616	CLASSROOM	576 SF	E	20	43
617	CLASSROOM	891 SF	E	20	44
618	JANITOR'S CLOSET	146 SF	S	300	0
619	CLASSROOM	891 SF	E	20	44
620	CLASSROOM	875 SF	E	20	43
Grand total					399

CODE NOTES

2024 OHIO BUILDING CODE / 2024 OHIO EXISTING BUILDING CODE

Use and Occupancy Group: Educational - Group E: (Section 505)
Construction Type: 2B
Fully Suppressed Building: Yes
Proposed Addition: 19,395 sf
Allowable Building Height: 75' / 3 Stories
Proposed Building Height: 18'-6" / 1 Story

Allowable Area Analysis:

- Existing Building
- Occupancy: Group E – Educational
 - Construction Type: Type IIB
 - Stories: 1
 - Area: 182,589 SF
 - Automatic Sprinkler System: Fully Sprinklered

Addition

- Occupancy: Group E – Educational
- Construction Type: Type IIB
- Stories: 1
- Area: 19,395 SF
- Automatic Sprinkler System: Fully Sprinklered

Combined Building Area: 201,984 SF

Allowable Area – OBC Chapter 5:

Group E / Type IIB / Sprinklered: 58,000 SF (Table 506.2)
Group E / Type IIB / Non-sprinklered: 14,600 SF (Table 506.2)
Frontage Increase Factor (If): 0.75
Allowable Area: Aa = 58,000 + (14,500 × 0.75) = 68,875 SF per story

The combined area of the existing building and addition exceeds the allowable area established by OBC Chapter 5. In accordance with OBC §502.1.2.1, a fire barrier is provided between the existing building and addition.

The existing building and addition are separated by a continuous 2-hour fire barrier complying with OBC §707. The addition is fully equipped throughout with an automatic sprinkler system in accordance with OBC §903.3.1.1. In accordance with OBC §502.1.2.1(2), the provisions applicable to a sprinklered building, including the sprinklered Chapter 5 tabular values and applicable code alternatives, exceptions, trade-offs and reductions, are permitted for the addition.

The addition is therefore evaluated as an addition to the existing Group E building in accordance with OBC § 502.1.2.1 rather than as an independent building established by a fire wall.

Incidental Use Areas for E Occupancies (Table 509.1)

Laboratories & Vocational Shops not classified as Group H 1 hour or Automatic Sprinkler System

Laundry Room (Room 609) over 100sf - Automatic Sprinkler System Provided

Dental Teaching Lab - Automatic Sprinkler System Provided

Surgery Tech - Automatic Sprinkler System Provided

Pre-Nursing Labs - Automatic Sprinkler System Provided

Fire Resistance Rating Requirements (Table 601) – IIB Construction Type

Primary Structural Frame 0 Hours
Bearing Walls Exterior 0 Hours
Bearing Walls Interior 0 Hours
Nonbearing Walls Exterior >= 30ft: 0 Hours
Floor Construction 0 Hours
Roof Construction 0 Hours

Fire Barriers (Section 707)

Where required by OBC Section 502.1.2, the existing building and proposed addition shall be separated by a fire barrier complying with OBC Section 707.

The required fire barrier shall:

- Provide a minimum 2-hour fire-resistance rating.
- Be continuous from the top of the foundation or floor/ceiling assembly below to the underside of the floor or roof sheathing, slab, or deck above, in accordance with OBC Section 707.5.
- Maintain the required fire-resistance rating at intersections with floors, roofs, exterior walls, and other building assemblies.
- Have penetrations protected in accordance with OBC Section 714.
- Have joints protected in accordance with OBC Section 715.
- Have openings protected with fire door assemblies having the required fire-protection rating in accordance with OBC Section 716.
- Have ducts and air-transfer openings protected in accordance with the applicable provisions of OBC Section 717.

EXISTING FIRE BARRIER – WALL TYPE A

- COMPLIANCE VIA 301.3.1 PRESCRIPTIVE COMPLIANCE METHOD

The existing wall at the interface between the existing building and proposed addition will be maintained and incorporated as part of the required fire barrier.

Existing Wall Type A consists of:

8-inch CMU: W-8-M-82 – 2-1/2-hour fire-resistance rating
4-inch brick veneer: W-4-M-2 – 1-1/4-hour fire-resistance rating

The existing masonry construction provides fire-resistance-rated construction exceeding the required 2-hour fire barrier rating. The existing wall will remain in place and will serve as the fire barrier separating the existing building from the proposed addition.

The existing fire barrier shall remain continuous and intact except where specifically modified to accommodate the connection to the new addition.

NEW FIRE BARRIER – WALL TYPE Y2

Where the existing wall opening occurs at the connection between the existing building and proposed addition, the opening will be infilled with new Wall Type Y2, as indicated on Sheet G003.

Wall Type Y2 shall provide a minimum 2-hour fire-resistance rating and shall be constructed continuously with the existing fire barrier to maintain the required fire-resistance rating and continuity of the separation.

The new Wall Type Y2 construction shall be securely connected to the existing fire-resistance-rated construction and shall be detailed to prevent the passage of fire and smoke at the perimeter of the new wall.

All joints, penetrations, and intersections between Wall Type Y2 and the existing construction shall be protected as required by OBC Sections 714 and 715.

LIFE SAFETY LEGEND

FIRE WALL SYMBOLS:

- EXIT SIGN / DIRECTION
- 2 HOUR FIRE BARRIER
- 2 HOUR FIRE WALL
- FIRE EXTINGUISHER
- FIRE EXTINGUISHER CABINET

Fire Barrier Section Cont...

RATED DOOR ASSEMBLY

The required opening through the fire barrier will be provided with a listed and labeled fire door assembly having a fire-protection rating complying with OBC Table 716.1(1), as applicable to a 2-hour fire barrier.

The fire door assembly will be equipped with:

- Automatic door closers;
- Electromagnetic hold-open devices;
- Fire alarm system connection; and
- Automatic release of the hold-open devices upon activation of the fire alarm system.

Upon activation of the fire alarm system, the electromagnetic hold-open devices shall release and the fire doors shall automatically close and latch, restoring the required fire-resistance protection of the opening.

The door assembly shall be installed and maintained in accordance with OBC Section 716 and applicable requirements of NFPA 80 and NFPA 72.

COMPLIANCE

The existing Wall Type A and new Wall Type Y2 together provide the required 2-hour fire barrier separating the existing building from the proposed addition.

The existing masonry wall provides fire-resistance-rated construction exceeding the required 2-hour rating. The existing opening at the addition connection will be closed with new 2-hour-rated Wall Type Y2 construction. The required opening through the new fire barrier will be protected with a listed fire door assembly equipped with electromagnetic hold-open devices that are connected to the building fire alarm system and automatically release upon fire alarm activation.

The existing and new construction will be detailed to maintain continuity of the fire barrier at the floor, roof, wall, and structural intersections and at all penetrations and joints.

DRAWING REFERENCES:

G003 – Wall Types / Fire-Resistance-Rated Assemblies
Wall Type A – Existing Construction
Wall Type Y2 – New 2-Hour Fire Barrier
Fire-rated door assembly at existing building/addition connection

Automatic Sprinkler System (Section 903)

Per 903.2.3, Automatic Sprinkler system shall be provided for Group E occupancies throughout all group E Fire areas greater than 20,000 sf in area.

- Automatic sprinkler system is being provided for entire building.

Portable Fire Extinguishers (Section 906)

Per 906.1, in Group E occupancies equipped throughout in following Areas:

- In areas where flammable or combustible liquids are stored, used or dispensed;
- Special hazard areas, including but not limited to laboratories, computer rooms and generator rooms.

Per Table 906.2 (1), the maximum travel distance to Fire Extinguishers is 75 feet.

See 28/G004 for locations.

Fire Alarm System (Section 907)

Per 907.1.1, Fire alarm system construction documents shall be submitted for review and approval prior to installation. This will be a future submittal.

Per 907.2.3, Fire Alarm System is required in group E occupancies with an occupant load of more than 50. Fire alarm system is being provided.

Carbon Monoxide Detection (Section 915)

Per 915.1.3, Carbon Monoxide detection shall be provided for classrooms served by a fuel-burning, forced air furnace.

Emergency Responder Radio Coverage (Section 916)

Per 916.1, Emergency responder radio coverage shall be provided as required in accordance with section 510 of the fire code.

Special Inspections (To be performed by owner / third party testing company)

- Site Compaction at slabs
- Site Material Compaction
- Shallow foundations under columns (Soil Compaction)
- Reinforcement installation - Cast-In-Place Concrete
- Evaluation of concrete strength
- Reinforcement installation - Masonry
- Grouting operations
- Anchor and ties
- Metal Deck - Structural Steel
- ** See Structural Drawings S004 for Additional requirements for special inspections

Occupant Load (Section 1004)

Per 1004.1.2, The maximum floor area allowances per occupant are as follows:

- Accessory Storage Areas, Mechanical Room 300 Gross
- Educational Classrooms 20 Net
- Educational Shops / Vocational Room 50 Net

Occupant Loads per Table 1004.1.2

Total Occupancy - 399 Occupants

Means of Egress Sizing (Section 1005)

Per 1005.3.2, Exception 1, the egress capacity of means of egress components other than stairways shall be calculated by multiplying the occupant load served by such component by 0.15 inch per occupant.

Total Capacity (399) × 0.15 in / occupant = 59.85 Inches Required

- Double Exit Doors - 2 @ 72 Inches = 288 Inches
- Total Exit Width: 288 Inches - Complies

Number of Exits and Exit Access Doorways (Section 1006)

Per Table 1006.2.1, Maximum Occupant load of space for E occupancy with one exit is 49

Rooms Requiring Two Exits

Adjacent Pre-school Learning Lab - New 2nd Exit Provided

Per Table 1006.2.1, Maximum Common Path of Egress Travel distance for E occupancy with Sprinkler System is 75.

Number of Exits and Exit Access Doorways (Section 1006) Cont...

Per 1006.2.1.1, Three or More exits shall be provided from any space and an occupant load of 501 to 1,000

Not Applicable

Per 1006.2.2.1, Two exit access doorways are required in boiler, incinerator and furnace rooms where their area is over 500 square feet and any fuel-fired equipment exceeds 400,000 btu input capacity.

Not Applicable

Per 1006.2.2.7. 1, Exit access shall be provided from electrical equipment workspaces with equipment workspaces with equipment rated 1,200 amperes or more shall have exit access openings at each end of the working space. The door shall be equipped with panic hardware.

Not Applicable

Per 1010.1.10, Panic and Fire exit door hardware is required for rooms or spaces with an occupant load of 50 or more in a group E Occupancy.

Exit Access Travel Distance (Section 1017)

Per table 1017.2, The maximum exit access travel distance for an E occupancy with sprinkler system is 250 feet.

Corridors (Section 1020)

Per Table 1020.1, The minimum corridor fire-resistance rating for an E occupancy with greater than 30 occupants with a sprinkler system is 0 hours

Per table 1020.2, the minimum corridor width for an E occupancy with an occupant load of 100 or more is 72 inches.

Plumbing (Section 2900)

Minimum number of plumbing facilities (per table 2902.1)

Plumbing Calculations for E use	Quantity	Capacity
Water Closets - Men (1 per 50)	22 exist, 2 new	1,200
Urinals - Men (1 per 50)	22 exist, 0 new	1,100
Water Closets - Women (1 per 50)	41 exist, 2 new	2,150
Lavatories - Men (1 per 50)	26 exist, 2 new	1,400
Lavatories - Women (1 per 50)	34 exist, 2 new	1,800
Drinking Fountains (1 per 100)	6	
Service Sink (1 required)	1	
Total Occupants served	3,200 occupants	

The Addition is designed to accommodate an additional 400 students and staff



Mark C. Wiseman, License #13215
Expiration Date 12/31/2027

REVISIONS:		Number	Description
PRINTINGS:		Sheet	Permit Set
CONSULTANTS:		09/15/2025	

WARREN COUNTY
CAREER CENTER
MEDICAL ACADEMY



PROJECT NO: #26306.00
CHECKED BY: [Signature]
DRAWN BY: [Signature]
AUTHOR: [Signature]
DATE: 09/15/2025

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LIFE SAFETY PLAN

G004

GENERAL NOTES

- THE COUNTY OF WARREN, AND THE CURRENT EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS (DOOT CMS), INCLUDING ALL SUPPLEMENTS, SHALL GOVERN ALL MATERIALS AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THIS PLAN. IGNORE REFERENCES TO MEASUREMENT AND PAYMENT IN THE DOOT CMS UNLESS NOTED OTHERWISE. IN THE CASE OF CONFLICTS BETWEEN THE DOOT CMS AND THE COUNTY OF WARREN REQUIREMENTS, THE COUNTY OF WARREN REQUIREMENTS SHALL PREVAIL.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL CALL, TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (811 OR 1-800-362-2764 48 HOURS (EXCLUDING WEEKENDS AND HOLIDAYS) PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES WHO ARE NON-MEMBERS OF THE OHIO UTILITIES PROTECTION SERVICE AT LEAST 48 HOURS (EXCLUDING WEEKENDS AND HOLIDAYS) PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.
- CONTRACTOR SHALL OBTAIN A PERMIT FOR ALL CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH LOCAL, STATE, & FEDERAL REGULATIONS.
- THE CONTRACTOR IS TO PERFORM ALL INSPECTIONS AS REQUIRED BY THE OHIO EPA FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT AND FURNISH OWNERS REPRESENTATIVE WITH WRITTEN REPORTS.
- THE CONTRACTOR IS REQUIRED TO VISIT THE SITE AND FULLY INFORM THEMSELVES CONCERNING ALL CONDITIONS AFFECTING THE SCOPE OF THE WORK. FAILURE TO VISIT THE SITE SHALL NOT RELIEVE THEM FROM ANY RESPONSIBILITY IN THE PERFORMANCE OF THE CONTRACT.
- NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR EXPENSES INCURRED DUE TO SOIL CONDITIONS, GROUNDWATER, AND/OR ROCK EXCAVATION. ALL OF THESE ITEMS SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
- THE COST OF ALL DEWATERING REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
- THE DIRECT OR INDIRECT DISCHARGE OR PUMPING OF UNFILTERED SEDIMENT-LADEN WATER INTO THE STORM DRAINAGE SYSTEM OR WATERCOURSE IS ILLEGAL AND PROHIBITED.
- ANY WELL, WELL POINT, PIT, OR OTHER DEVICE INSTALLED FOR THE PURPOSE OF LOWERING THE GROUND WATER TO FACILITATE CONSTRUCTION OF THIS PROJECT SHALL BE PROPERLY ABANDONED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 31454-10 OF THE OHIO ADMINISTRATIVE CODE OR IN ACCORDANCE WITH THE PROVISIONS OF THIS PLAN AS DIRECTED BY THE DIRECTOR OF PUBLIC UTILITIES OR HIS REPRESENTATIVE.
- ANY CONTRACTOR INSTALLING ANY WELL, WELL POINT, PIT, OR OTHER DEVICE USED FOR THE PURPOSE OF REMOVING GROUND WATER FROM AN AQUIFER SHALL COMPLETE AND FILE A WELL LOG AND DRILLING REPORT FORM WITH THE OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR), DIVISION OF WATER, WITHIN 30 DAYS OF THE WELL COMPLETION IN ACCORDANCE WITH THE OHIO REVISED CODE SECTION 1521.01 AND 1521.05. IN ADDITION, ANY SUCH FACILITY IS COMPLETED IN ACCORDANCE WITH SECTION 1521.16 OF THE OHIO REVISED CODE. FOR COPIES OF THE NECESSARY WELL LOG, DRILLING REPORT, OR REGISTRATION FORMS, PLEASE CONTACT: OHIO DEPARTMENT OF NATURAL RESOURCES, 2045 MORSE ROAD, COLUMBUS, OHIO 43229, 614-265-6576.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO THE OWNER FOR THE REGISTRY, MAINTENANCE AND ABANDONMENT OF ANY WITHDRAWAL DEVICE USED IN CONSTRUCTION OF THIS PROJECT.
- ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT AND/OR FACE OF CURB, UNLESS OTHERWISE NOTED.
- ALL SITE SIGNAGE, STRIPING COLOR AND WIDTH SHALL BE PER THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- EXISTING PAVEMENTS, WALKS, CURBS, ETC. SHALL BE FULL DEPTH SAWCUT BEFORE REMOVAL. IF, DURING CONSTRUCTION, THE PAVEMENT, WALKWAY, CURB, ETC. IS DAMAGED BEYOND THE ORIGINAL SAWCUT, THE DAMAGED AREA SHALL BE RECUIT TO NEAT LINES AS DIRECTED BY THE ENGINEER. PAYMENT FOR SAWCUTTING SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
- THE CONTRACTOR SHALL FULL DEPTH SAWCUT EXISTING PAVEMENT TO PROVIDE A SMOOTH VERTICAL FULL DEPTH BUTT JOINT BETWEEN THE EXISTING PAVEMENT OR CURB AND THE PROPOSED PAVEMENT. CONTRACTOR SHALL LOCATE SOUND PAVEMENT EDGE AND CUT AND TRIM PAVEMENT TO A NEAT LINE, INCLUDE THE COST OF PAVEMENT REMOVAL AND DISPOSAL IN THE PRICE BID FOR THE PROJECT.

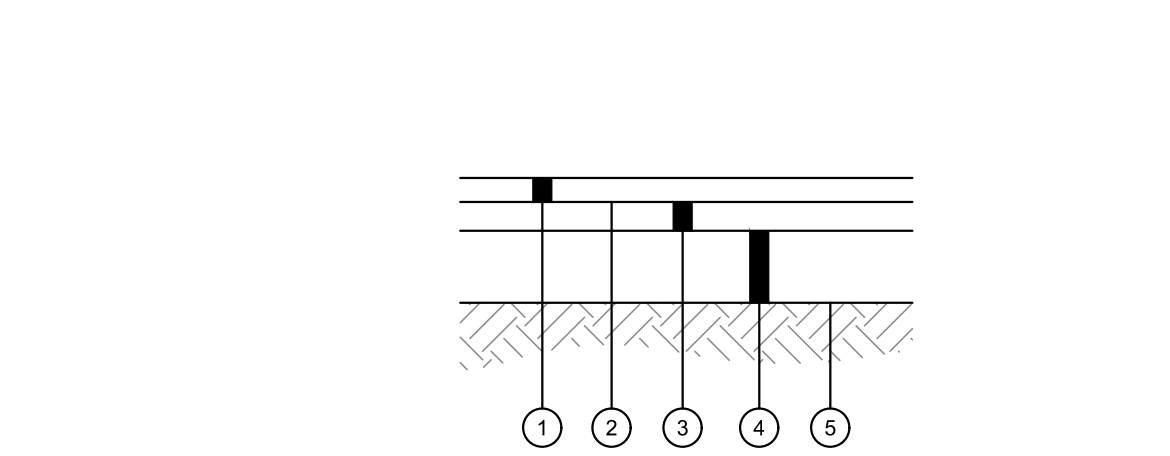
GRADING NOTES

- CONTRACTOR TO REMOVE TREES AND CLEAR AREAS AS NECESSARY TO PERFORM ALL SITE WORK INCLUDING GRADING AND UTILITY WORK.
- PROTECTION OF EXISTING TREES AND VEGETATION: PROTECT EXISTING TREES AND OTHER VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN DRIP LINE. EXCESS FOOT OR VEHICULAR TRAFFIC, OR PARKING OF VEHICLES WITHIN DRIP LINE, PROVIDE TEMPORARY GUARDS TO PROTECT TREES AND VEGETATION TO BE LEFT STANDING.
- ALL ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS.
- SITE BUILDING PAD EXCAVATION AND CONSTRUCTION TO BE PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. BUILDING PAD PREPARATION SHALL BEGIN BY CLEARING & STRIPPING UNSUITABLE MATERIAL FROM PAD SITE. THEN PLACE & COMPACT BACKFILL MATERIAL AT GEOTECHNICAL ENGINEER'S AND ARCHITECT'S RECOMMENDATIONS. ALL BACKFILL MATERIAL MUST BE ACCEPTABLE TO THE GEOTECHNICAL ENGINEER.
- ALL FILL UNDER PAVEMENT SHALL BE COMPACTED TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR IMPORTING AND EXPORTING SUITABLE SOIL MATERIALS AS NECESSARY TO CONSTRUCT THE SITE TO THE DESIGN GRAD.
- CONTRACTOR SHALL IMPLEMENT ALL SOIL AND EROSION CONTROL PRACTICES REQUIRED BY COUNTY OF WARREN AND THE OHIO EPA.
- ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE AND ARE TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL. IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, IF NO SPECIFICATIONS ARE SUPPLIED, USE ODOT ITEM 659.
- CONTRACTOR TO LAOYUT BUILDING BASED ON ARCHITECTURAL/FOUNDATION PLANS. SITE PLAN IS FOR CONCEPTUAL PURPOSES ONLY.

UTILITY NOTES

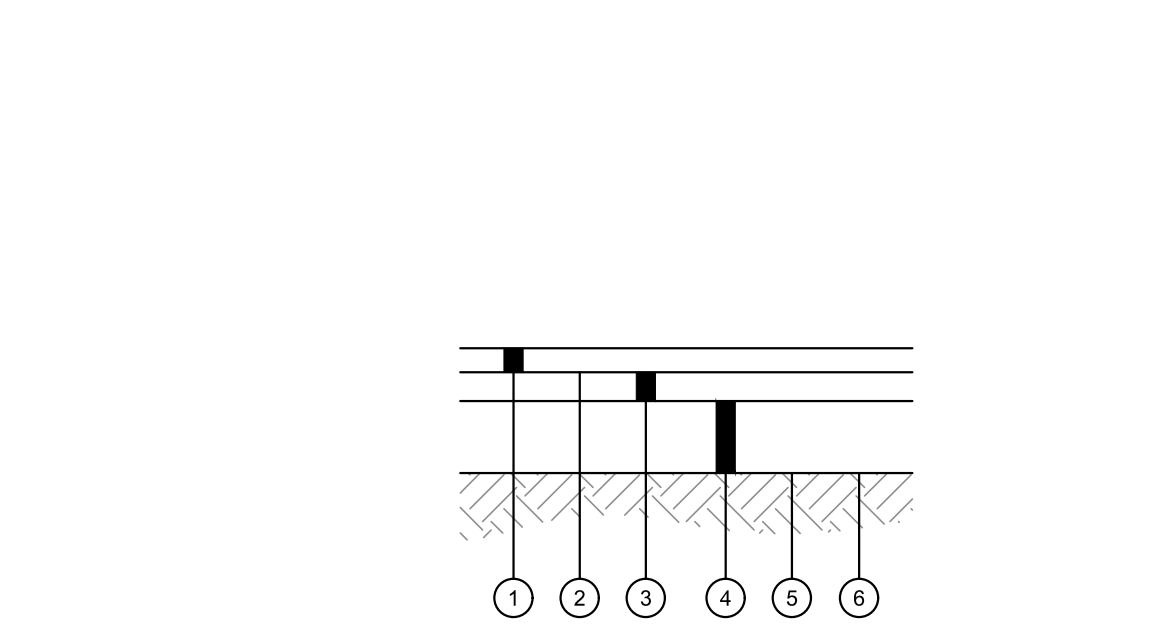
- ALL DRAIN TILE AND STORM SEWERS DAMAGED, DISTURBED OR REMOVED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH THE SAME QUALITY PIPE OR BETTER, MAINTAINING THE SAME GRADE AS EXISTING. THE DRAIN TILE AND/OR STORM SEWER SHALL BE CONNECTED TO THE CURB SUBDRAIN, STORM SEWER SYSTEM OR OUTLET INTO THE ROADWAY. DITCH AS APPLICABLE. REPLACED DRAIN TILE STORM SEWER SHALL BE Laid ON COMPACTED BEDDING EQUAL IN DENSITY TO SURROUNDING STRUTUM. REPLACEMENT SHALL BE DONE AT THE TIME OF THE BACKFILL OPERATION. COST OF THIS WORK TO BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
- ALL EXISTING UTILITIES KNOWN TO EXIST HAVE BEEN SHOWN ON THESE PLANS IN THEIR APPROXIMATE LOCATION. PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTHWORKING OPERATIONS, THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF THE UTILITIES SHOWN. THE CONTRACTOR IS ALSO RESPONSIBLE FOR THE PROTECTION AND/OR RELOCATION OF ANY UTILITIES THAT MAY EXIST AND ARE NOT SHOWN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE RELOCATION AND/OR PROTECTION OF ANY UTILITIES AS REQUIRED BY THE PLAN WITH THE OWNER OF THE AFFECTED UTILITY.
- UTILITY POLES WITHIN INFLUENCE OF THE UTILITY OPERATIONS SHALL BE REINFORCED BY THE UTILITY COMPANY PRIOR TO THESE CONSTRUCTION ACTIVITIES. NOTIFICATION OF THE UTILITY COMPANY PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- COMPACTED FILLS ARE TO BE MADE TO A MINIMUM OF THREE FEET ABOVE THE CROWN OF ANY PROPOSED SEWER PRIOR TO CUTTING OF TRENCHES FOR PLACEMENT OF S&B SEWERS. ALL FILLS SHALL BE CONTROLLED, COMPACTED, AND INSPECTED BY AN APPROVED TESTING LABORATORY OR AN INSPECTOR FROM THE APPROPRIATE GOVERNMENTAL AGENCY.
- CONTRACTOR TO REPLACE ANY PAVEMENT OR UTILITIES DAMAGED WHICH ARE NOT SPECIFIED TO BE REMOVED ON THESE PLANS.
- ALL CATCH BASINS PLACED WITHIN THE PAVEMENT SHALL HAVE HEAVY DUTY FRAMES AND GRATES. CATCH BASINS WITHIN AN ACCESSIBLE ROUTE SHALL CONFORM TO ADA REQUIREMENTS.
- ADJUST ALL EXISTING CASTINGS AND CLEANOUTS WITHIN PROJECT AREA TO GRADE AS REQUIRED.
- ALL CATCH BASINS WITH DEPTH GREATER THAN 6" SHALL BE PROVIDED WITH STEPS. STEPS SHALL MEET THE REQUIREMENTS OF DOOT ITEM 611.
- ALL STORM AND SANITARY SEWER MANHOLES WITH A DEPTH GREATER THAN 6" SHALL BE PROVIDED WITH STEPS. STEPS SHALL MEET THE REQUIREMENTS OF DOOT ITEM 611.
- DISTANCES SHOWN FOR BOTH SANITARY AND STORM SEWER PIPES ARE MEASURED FROM CENTER OF STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR ACTUAL FIELD CUT LENGTH. COORDINATES FOR STORM AND SANITARY STRUCTURES ARE SHOWN TO THE CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.
- IMMEDIATELY AFTER PLACEMENT OF ANY CONDUITS, THE CONTRACTOR SHALL CONSTRUCT THE END TREATMENTS REQUIRED BY THE PLANS AT BOTH THE OUTLET AND INLET ENDS. THIS SHALL INCLUDE HEADWALLS, CONCRETE, RIP RAP, ROCK CHANNEL PROTECTION, SODDING, POURING BOTTOMS, MOUNDING LIFT HOLES, ETC.
- ALL PROPOSED STORM SEWERS, SURFACE OR OTHER DRAINAGE FACILITIES ARE TO BE PRIVATE AND MAINTAINED BY THE OWNER. EROSION CONTROL MEASURES MUST PROVIDE PROTECTION UNTIL COMPLETION OF THE PROJECT AND VEGETATIVE STABILIZATION.
- THE CONTRACTOR IS TO CONSTRUCT CURBS, CATCH BASINS, DOWNSPOUTS, PIPING AND CONNECTIONS ETC. AS REQUIRED TO CONVEY THE ROOF AND PAVED SURFACE DRAINAGE TO THE DETENTION BASIN.
- ROOF DRAINS, FOUNDATION DRAINS AND ALL OTHER CLEAR WATER CONNECTIONS TO THE SANITARY SEWER SYSTEMS ARE PROHIBITED.
- SITE CONTRACTOR SHALL PICK UP ALL UTILITIES, WITH THE EXCEPTION OF DOWNSPOUTS, 5' OUTSIDE BUILDING WALL. COORDINATE WITH CONSTRUCTION MANAGER.
- ALL STORM STRUCTURES ARE DOOT TYPES UNLESS OTHERWISE INDICATED.
- STORM SEWER PIPE LABELED "STW" SHALL BE ONE OF THE FOLLOWING: PVC SDR-35 PER DOOT ITEM 707.45; PVC PROFILE PIPE PER DOOT ITEM 707.43; HIGH DENSITY POLYETHYLENE PER DOOT ITEM 707.33; ALUMINIZED CORRUGATED METAL, DOOT ITEM 707.01, 707.02, OR REINFORCED CONCRETE PIPE, DOOT ITEM 706.02 CLASS IV. STORM SEWER PIPE LABELED "RCP" SHALL BE REINFORCED CONCRETE PIPE, DOOT ITEM 706.02 CLASS IV. ALL STORM 6" TO BE INSTALLED PER DOOT ITEM 611. STORM PIPE USED MUST HAVE A MANUFACTURER SPECIFIED FRICTION FACTOR OF 0.013 (N=0.013) OR LESS.

- ALL CATCH BASINS IN THE PAVEMENT ARE TO HAVE 4" PERFORATED UNDERDRAINS EXTENDING 10 LF FROM THE CATCH BASIN IN THE UPHILL DIRECTION AND CAPPED. ALL CATCH BASINS IN THE CURB ARE TO HAVE 2" PERFORATED UNDERDRAINS EXTENDING 10 LF FROM THE CATCH BASIN IN THE UPHILL DIRECTION AND CAPPED.
- FOR EXACT LOCATION OF DOWN SPOUTS & ROOF DRAINS, COORDINATE WITH CONSTRUCTION MANAGER. ALL ROOF DRAINS ARE TO BE 8" UNLESS OTHERWISE NOTED.
- ALL YARD DRAINS SHALL BE ONE OF THE FOLLOWING: NYLON LAST ADS DRAIN BASIN, NDS DURACAST FABRICATED PVC CATCH BASIN, AGRIDRAIN CATCH BASIN, OR APPROVED EQUAL.
- ALL EXISTING INVERTS AND LONG PROPOSED PIPE ALIGNMENTS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION OF THE SEWER.
- ANY FIELD TILE CUT IN EXCAVATION WHICH DRAINS IN AN OFFSITE AREA MUST BE TIED INTO THE STORM DRAINAGE SYSTEM.
- THE FLOW IN ALL SEWERS, DRAINS, FIELD TILES AND WATERCOURSES ENCOUNTERED SHALL BE MAINTAINED BY THE CONTRACTOR AT HIS OWN EXPENSE, AND WHENEVER SUCH WATERCOURSES AND DRAINS ARE DISTURBED OR DESTROYED DURING THE PROSECUTION OF THE WORK, THEY SHALL BE RESTORED BY THE CONTRACTOR AT HIS OWN EXPENSE TO A CONDITION SATISFACTORY TO THE ENGINEER.
- SANITARY SEWER SHALL BE SDR-35 OR APPROVED EQUAL AND CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE COUNTY OF WARREN. PIPE MUST MEET MINIMUM SLOPE REQUIREMENTS OF THE COUNTY OF WARREN AND OHIO EPA. SANITARY SEWER SHALL BE INSTALLED AT A MINIMUM DEPTH OF FOUR FEET (4') UNLESS OTHERWISE NOTED. A MINIMUM OF 1" CLEARANCE SHALL BE MAINTAINED AT ALL WATERLINE CROSSINGS. SANITARY SERVICE JOINTS SHALL CONFORM TO ASTM D-3212.
- SANITARY SEWER IS TO BE BEDDED WITH CLEAN GRANULAR MATERIAL-AGGREGATES NOT TO BE LARGER THAN 3/4" AND NOT SMALLER THAN NO. 8 SIEVE. FREE OF SILT AND FINES. ASHTO M43 SIZE #67, 7 OR 8. BEDDING TO BE MINIMUM OF 6" BELOW & 12" ABOVE THE PIPE.
- ALL WATERLINE CROSSINGS SHALL MAINTAIN A VERTICAL SEPARATION OF 18" MINIMUM. SANITARY SEWER SHALL BE LOCATED A MINIMUM OF 10' HORIZONTALLY FROM ANY SANITARY SEWER. ALL MEASUREMENTS SHALL BE TAKEN FROM OUTSIDE OF SEWER PIPE TO THE OUTSIDE OF WATERLINE PIPE. ONE FULL LENGTH OF WATERLINE PIPE SHALL BE LOCATED AT ALL CROSSINGS TO ENABLE BOTH JOINTS TO BE LOCATED AS FAR FROM SEWER AS POSSIBLE. ALL WATER SHALL HAVE A MINIMUM OF 4" OF COVER.
- WATERLINE 4 INCHES AND LARGER SHALL BE DUCTILE IRON PIPE CLASS 52, MINIMUM 250 PSI, AWWA C151 OR PVC AWWA 5000, OR 14, PRESSURE CLASS 305 PSI. FIRE SERVICE PIPING SHALL MEET THE REQUIREMENTS OF NFPA 24.



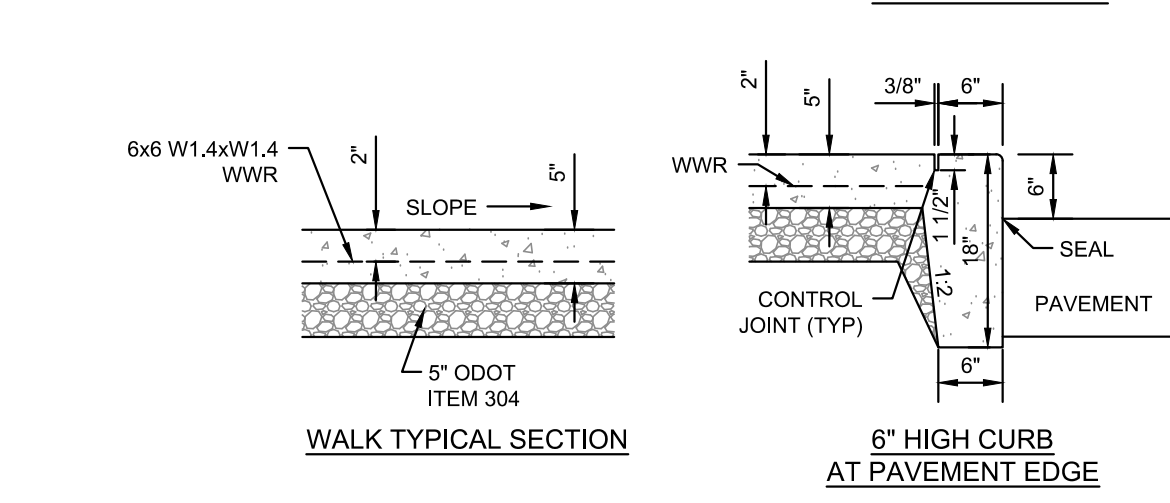
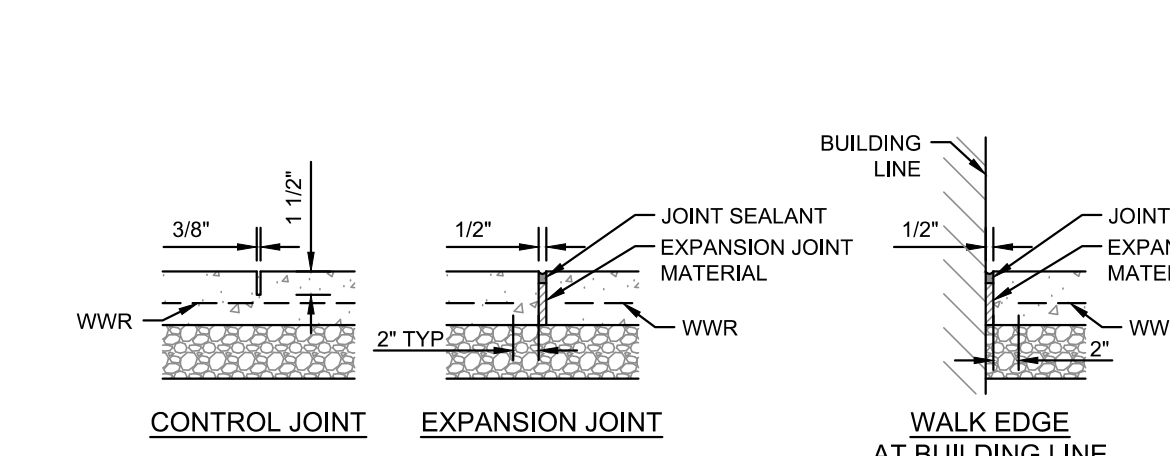
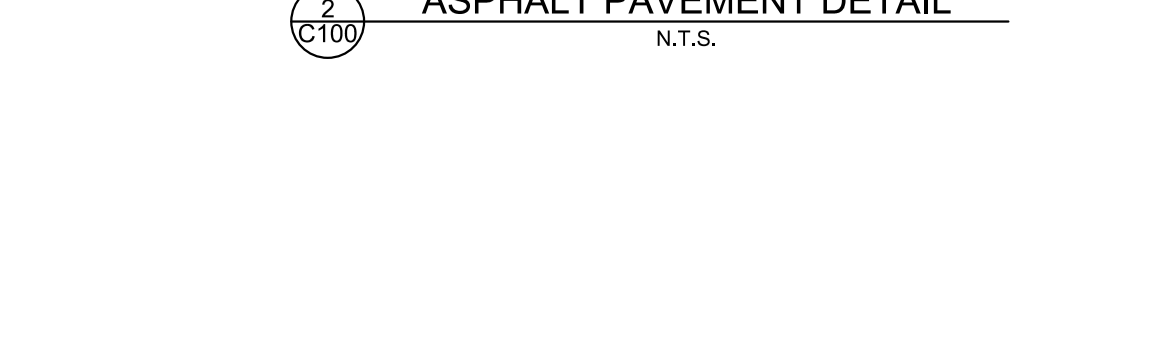
- 1 1/2\"/>
- DOOT ITEM 407 TACK COAT, APPLY IF TIME BETWEEN ASPHALT LIFTS EXCEEDS 30 DAYS
- 2\"/>
- 6\"/>
- SUBGRADE COMPACTION, REFERENCE DOOT ITEM 204, EARTHWORK SPECIFICATION 312000 AND SOILS REPORT

STANDARD DUTY ASPHALT PAVEMENT DETAIL



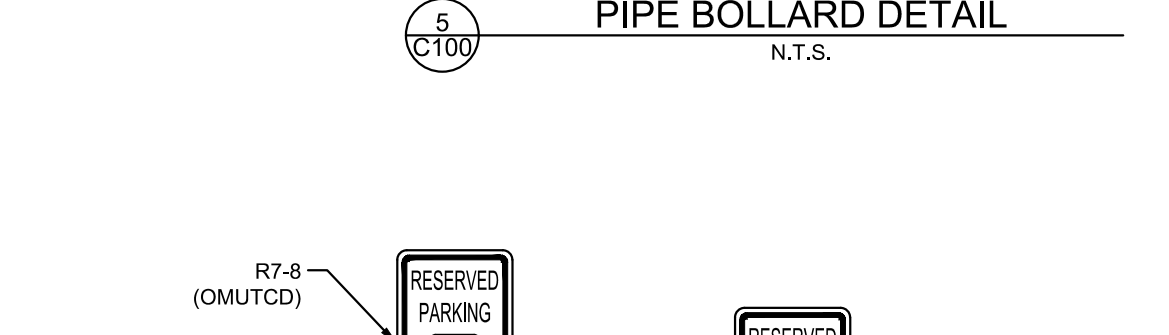
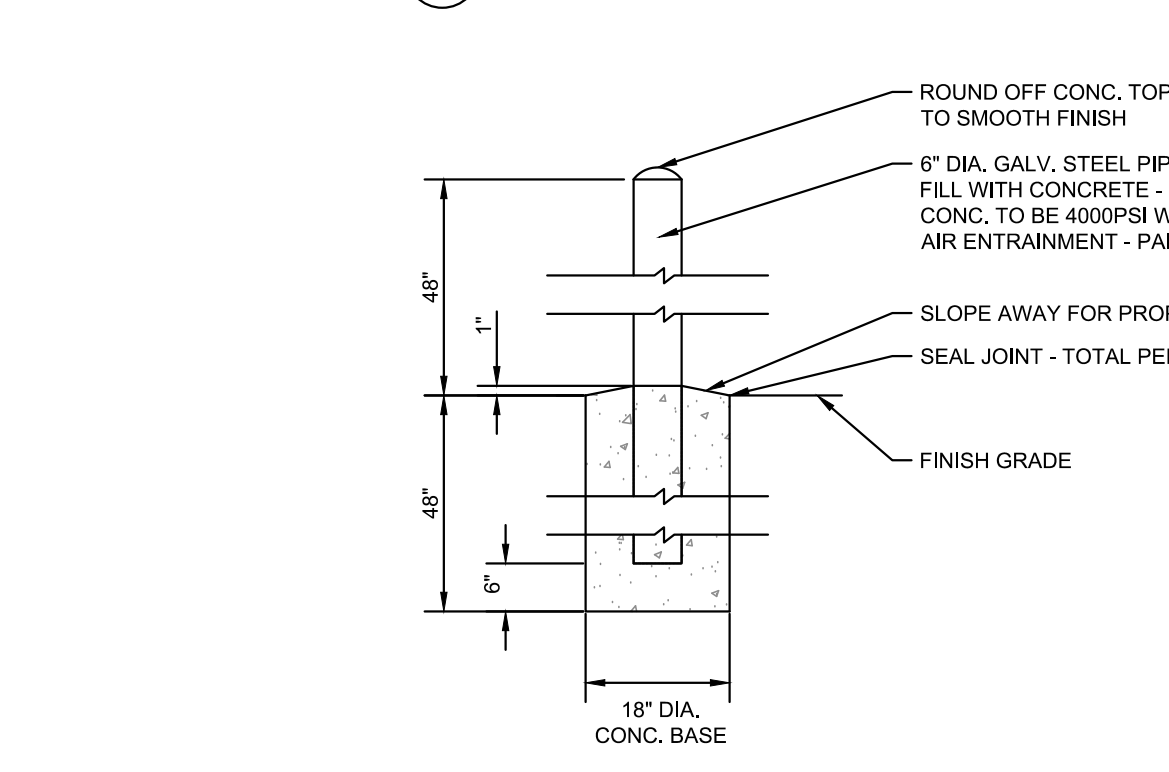
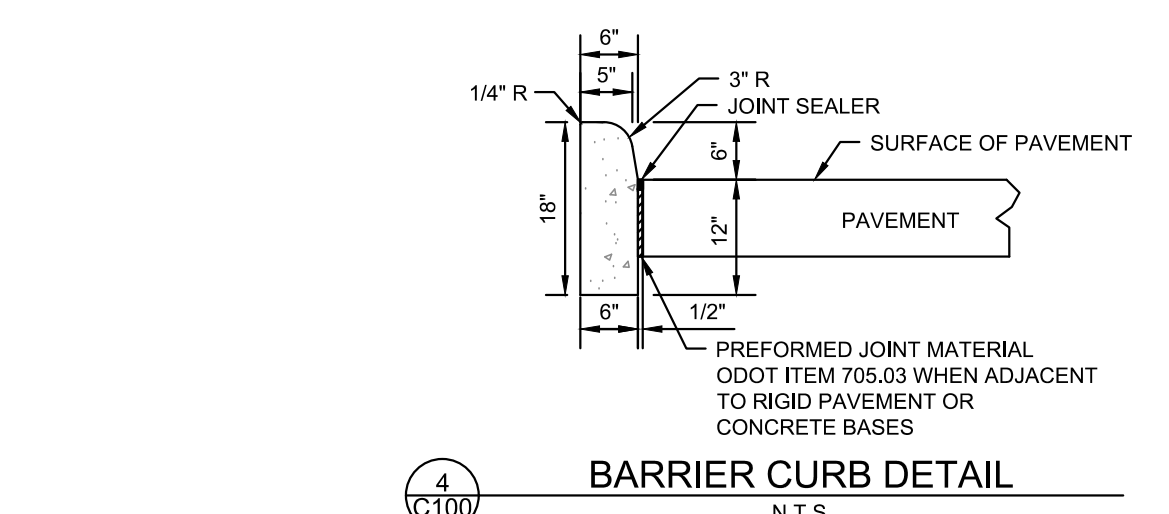
- 1 1/2\"/>
- DOOT ITEM 407 TACK COAT, APPLY IF TIME BETWEEN ASPHALT LIFTS EXCEEDS 30 DAYS
- 4\"/>
- 6\"/>
- WOVEN GEOTEXTILE FABRIC, DOOT ITEM 712.09 TYPE D
- SUBGRADE COMPACTION, REFERENCE DOOT ITEM 204, EARTHWORK SPECIFICATION 312000 AND SOILS REPORT

HEAVY DUTY ASPHALT PAVEMENT DETAIL



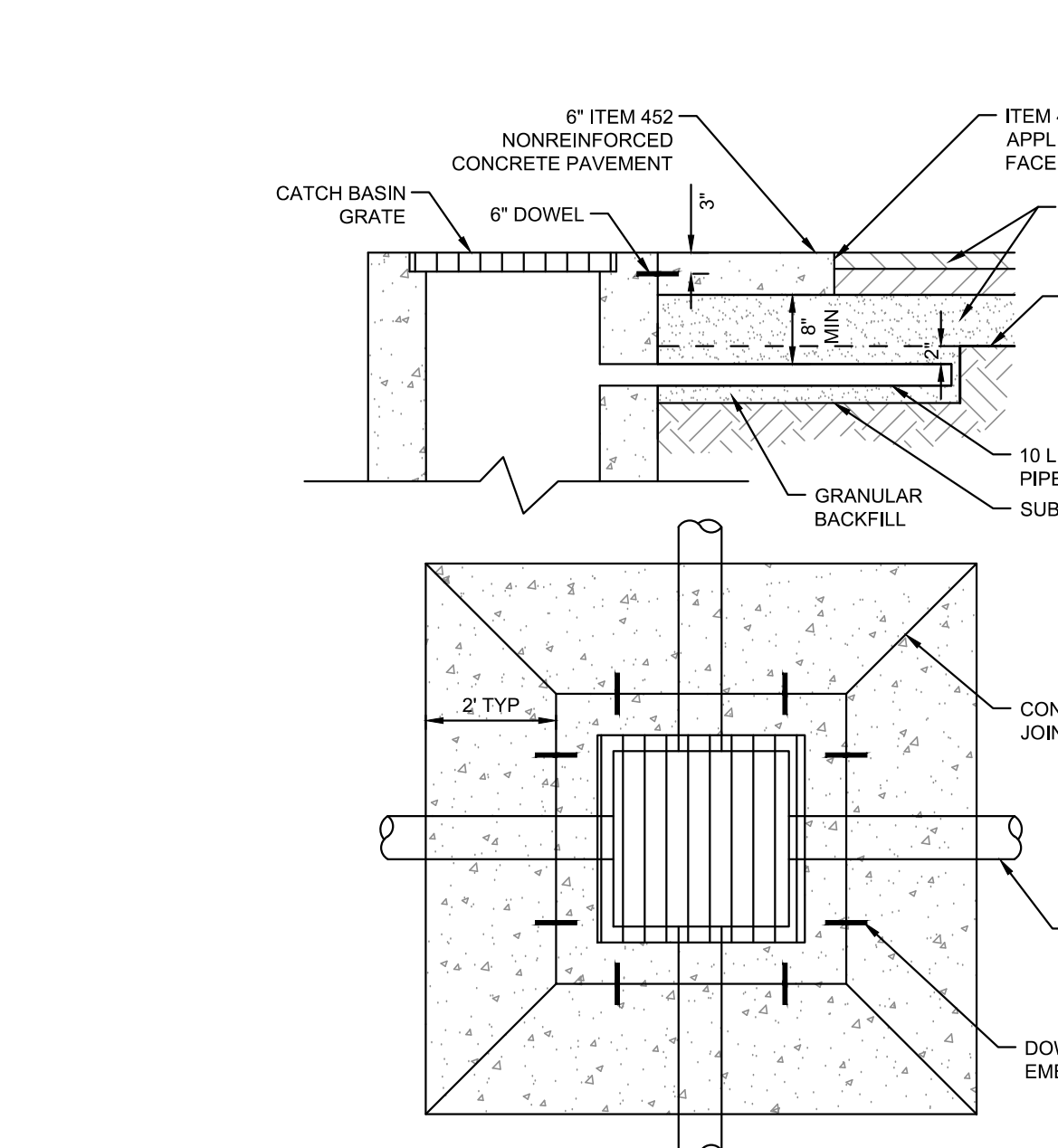
- INSTALL EXPANSION JOINTS AT 30' ON MAXIMUM AND WHERE SLAB ABUTS STRUCTURES, WHERE NEW WALK ABUTS ADJOINING WALK. SAWCUT EXISTING WALK TO NEAREST JOINT AND INSTALL EXPANSION JOINT. EXPANSION JOINTS SHALL BE 1/2\"/>
- INSTALL CONTROL JOINTS AT 6' ON MAXIMUM. CONTROL JOINTS SHALL BE 3/8\"/>
- WALK SHALL HAVE A MINIMUM CROSS SLOPE OF 1.00%, MAXIMUM CROSS SLOPE OF 2.00%.
- WATER AND UTILITY BOXES IN THE WALK AREA SHALL BE ADJUSTED FLUSH WITH THE FINAL SURFACE.
- REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DETAIL AT ALL BUILDING DOORS.
- JOINTING PLANS MUST BE SUBMITTED FOR APPROVAL.

EXTERIOR CONCRETE SLAB WALK WITH INTEGRAL CURB DETAIL

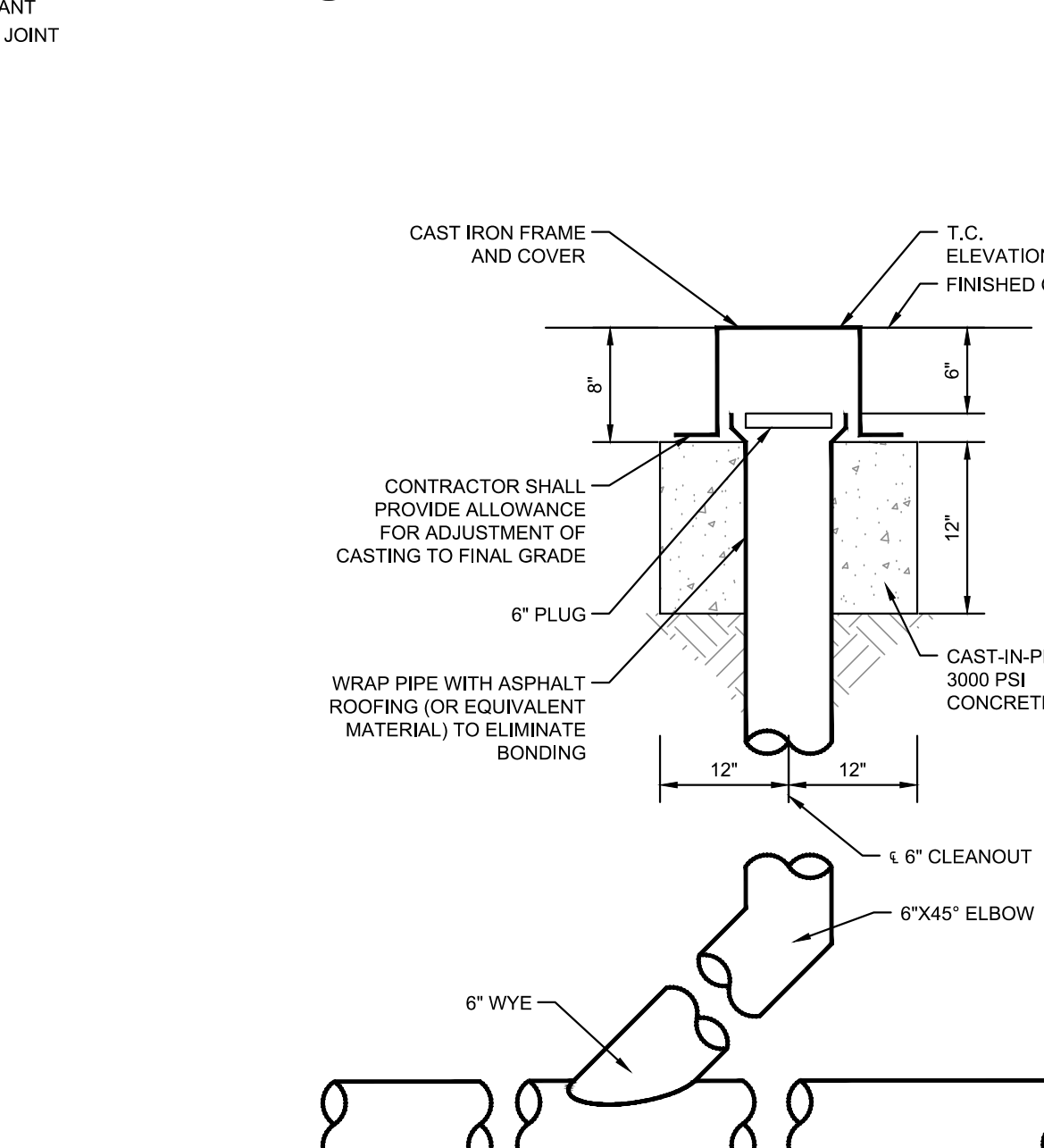


- GENERAL NOTES:
1. 1/4\"/>
 1. 12\"/>
 1. 12\"/>
 1. 12\"/>
- R7-8P NOTES:
1. 12\"/>
 2. GREEN LETTERING AND BORDER WITH WHITE BACKGROUND.
- R7-8PBP NOTES:
1. 12\"/>
 2. GREEN LETTERING AND BORDER WITH WHITE BACKGROUND.

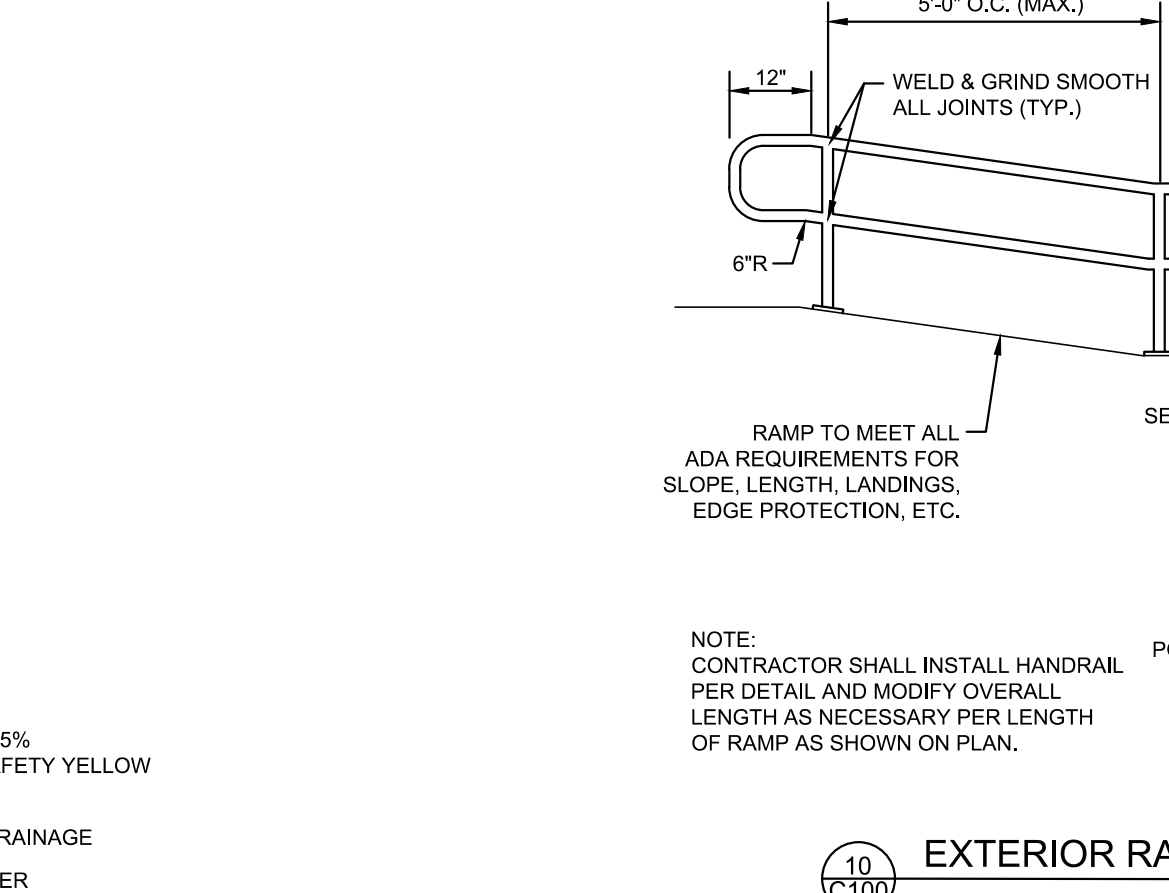
ACCESSIBLE PARKING SIGN DETAIL



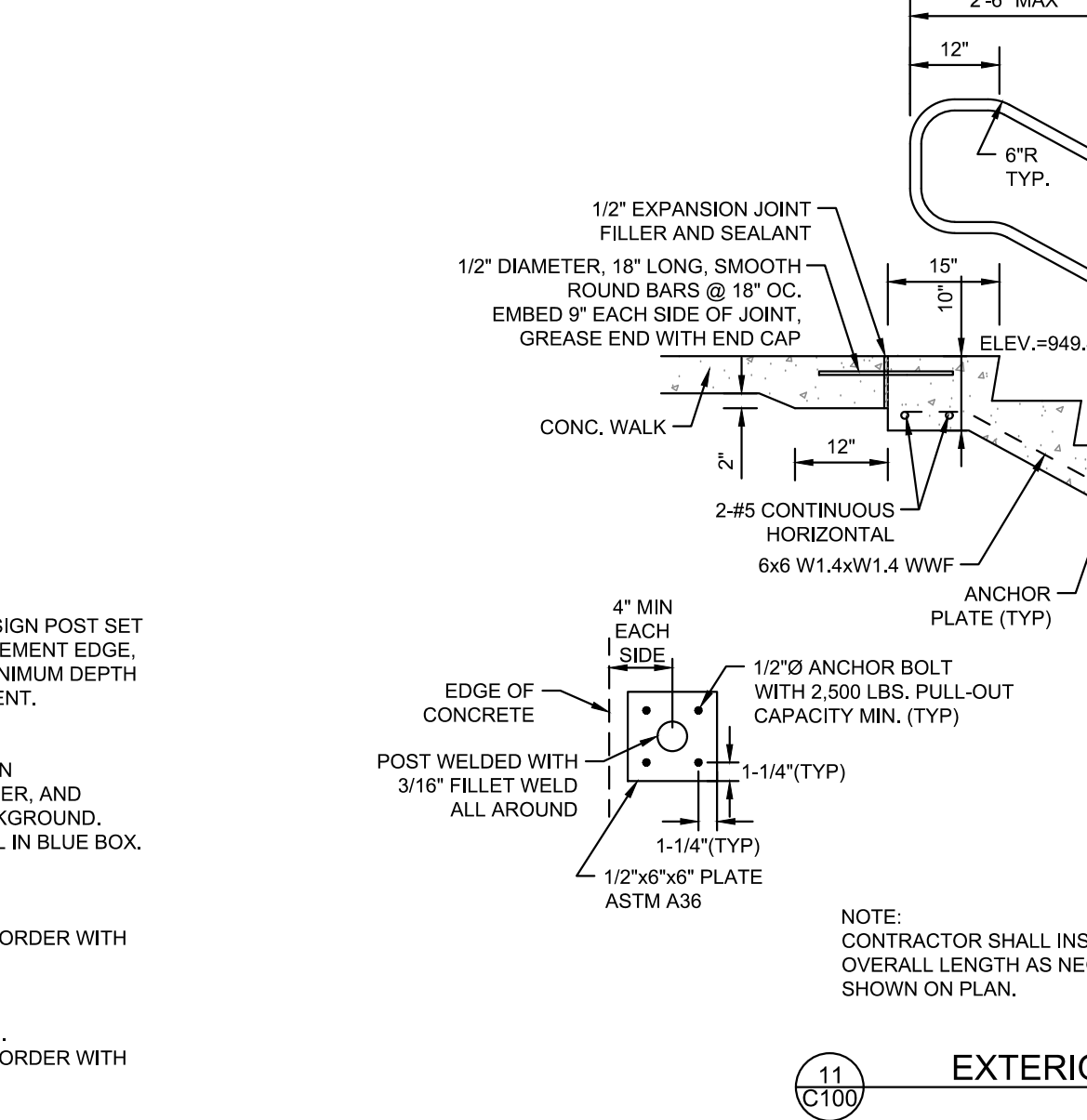
FINGER DRAIN AND CATCH BASIN CONCRETE APRON DETAIL



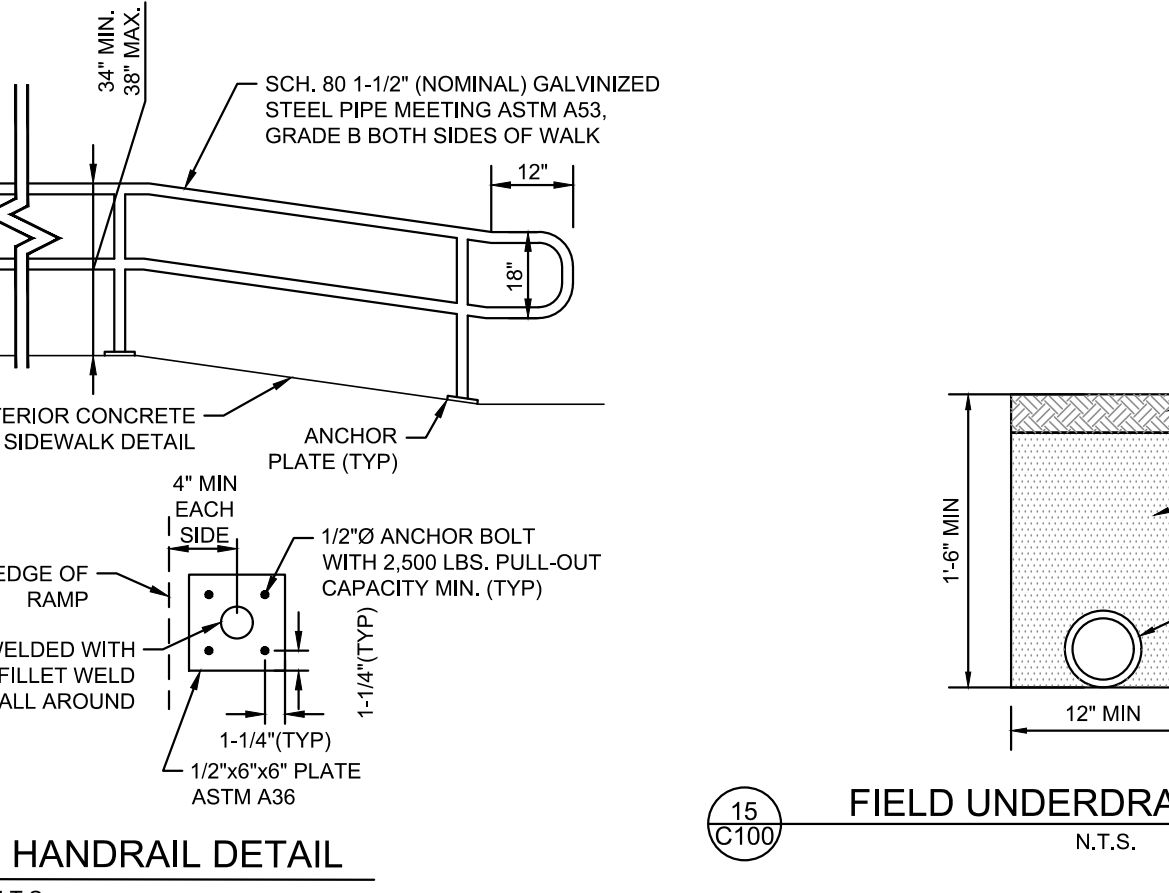
CLEANOUT DETAIL



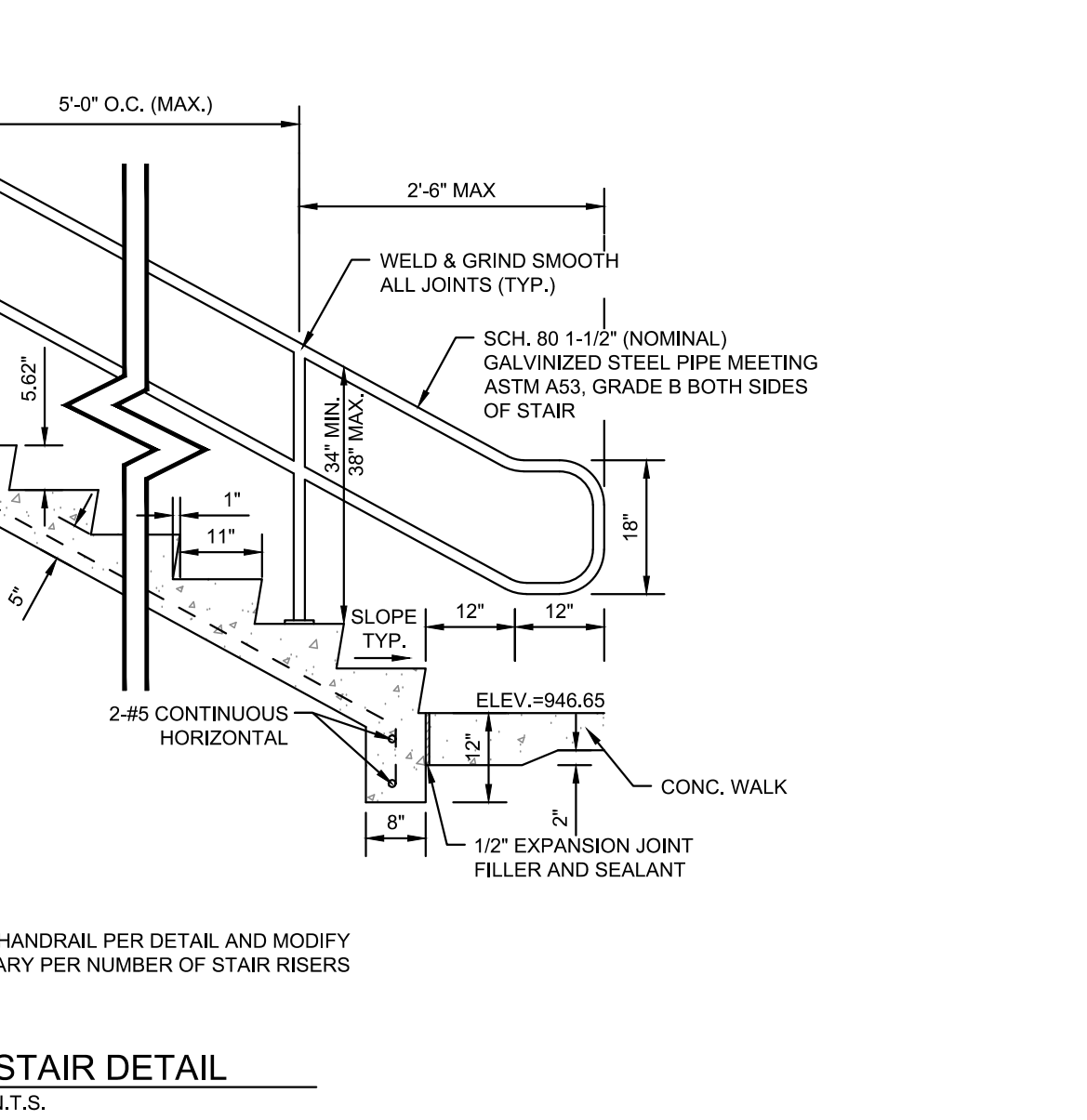
EXTERIOR RAMP HANDRAIL DETAIL



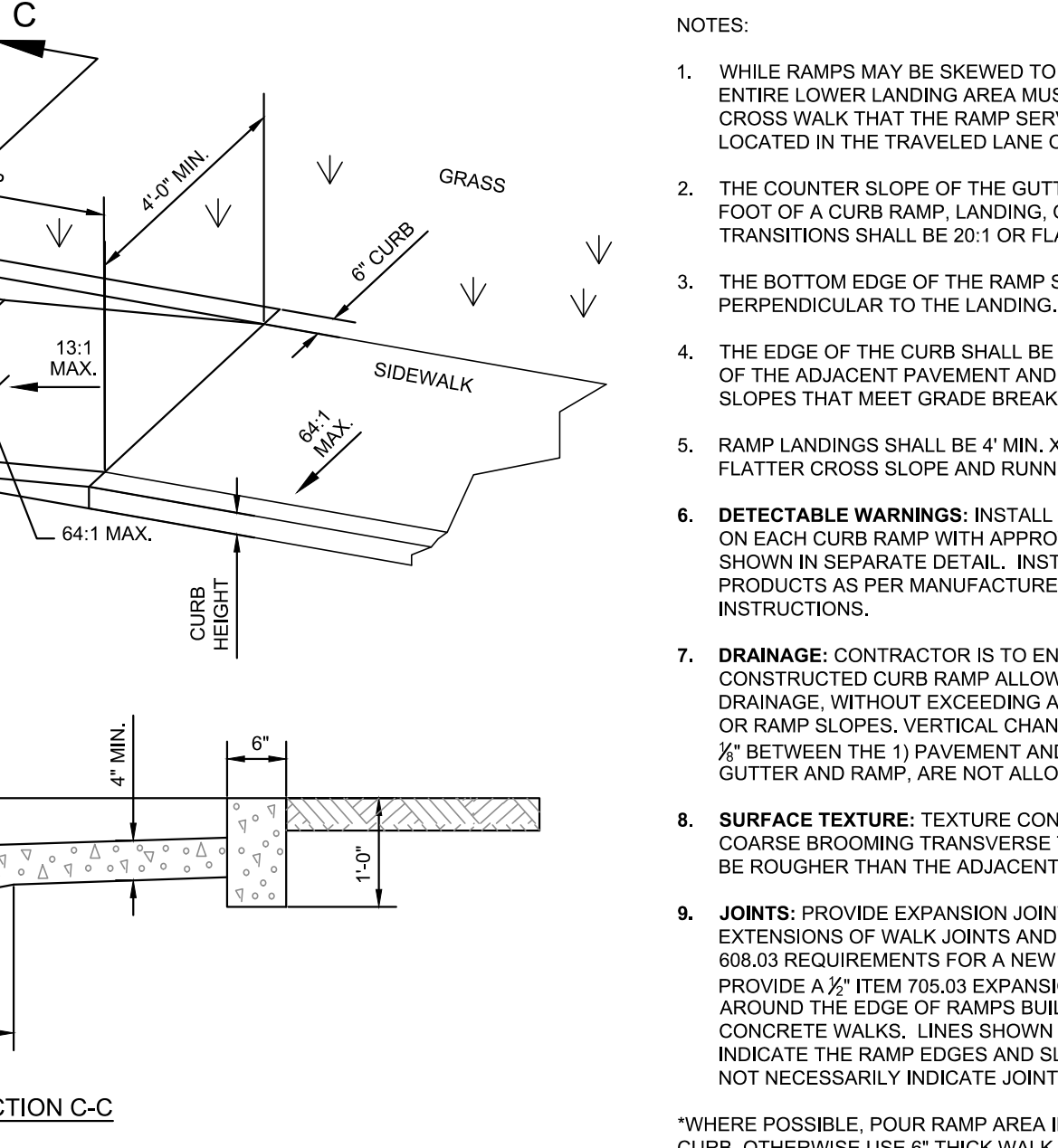
EXTERIOR STAIR DETAIL



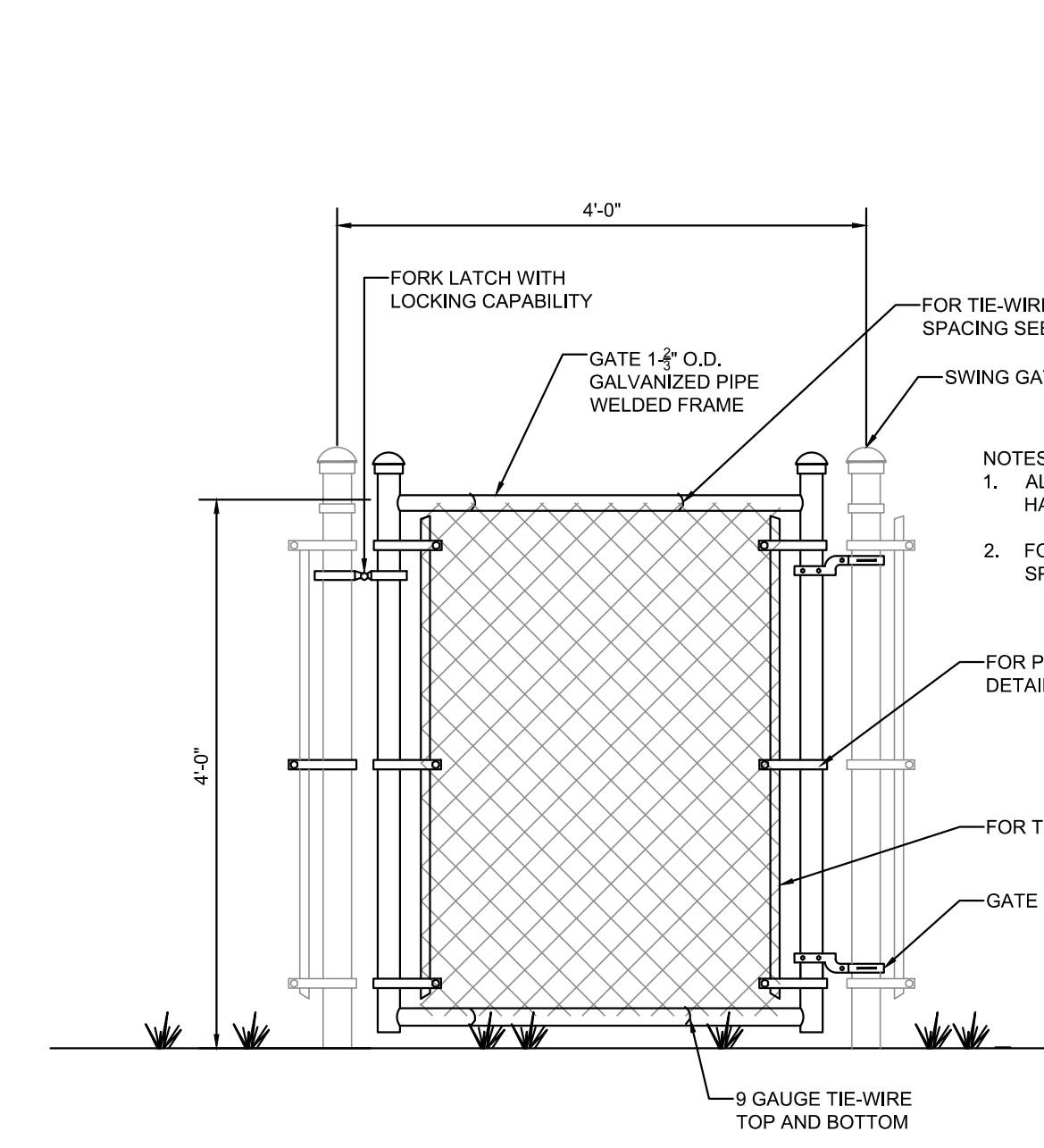
FIELD UNDERDRAIN DETAIL



CURB RAMP DETAIL - DOUBLE SIDED PARALLEL



CURB RAMP DETAIL - DOUBLE SIDED PARALLEL



VINYL COATED 4' CHAIN LINK FENCE GATE DETAIL



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JOSHUA P. SHAW
E-78397
PROFESSIONAL ENGINEER

REVISIONS:

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THE KLEINGERS GROUP

WARREN COUNTY
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PROJECT #263306.00
CHECKED BY:
J. SHAW
DRAWN BY:
K. LAGRANGE
DATE:
09/12/2026

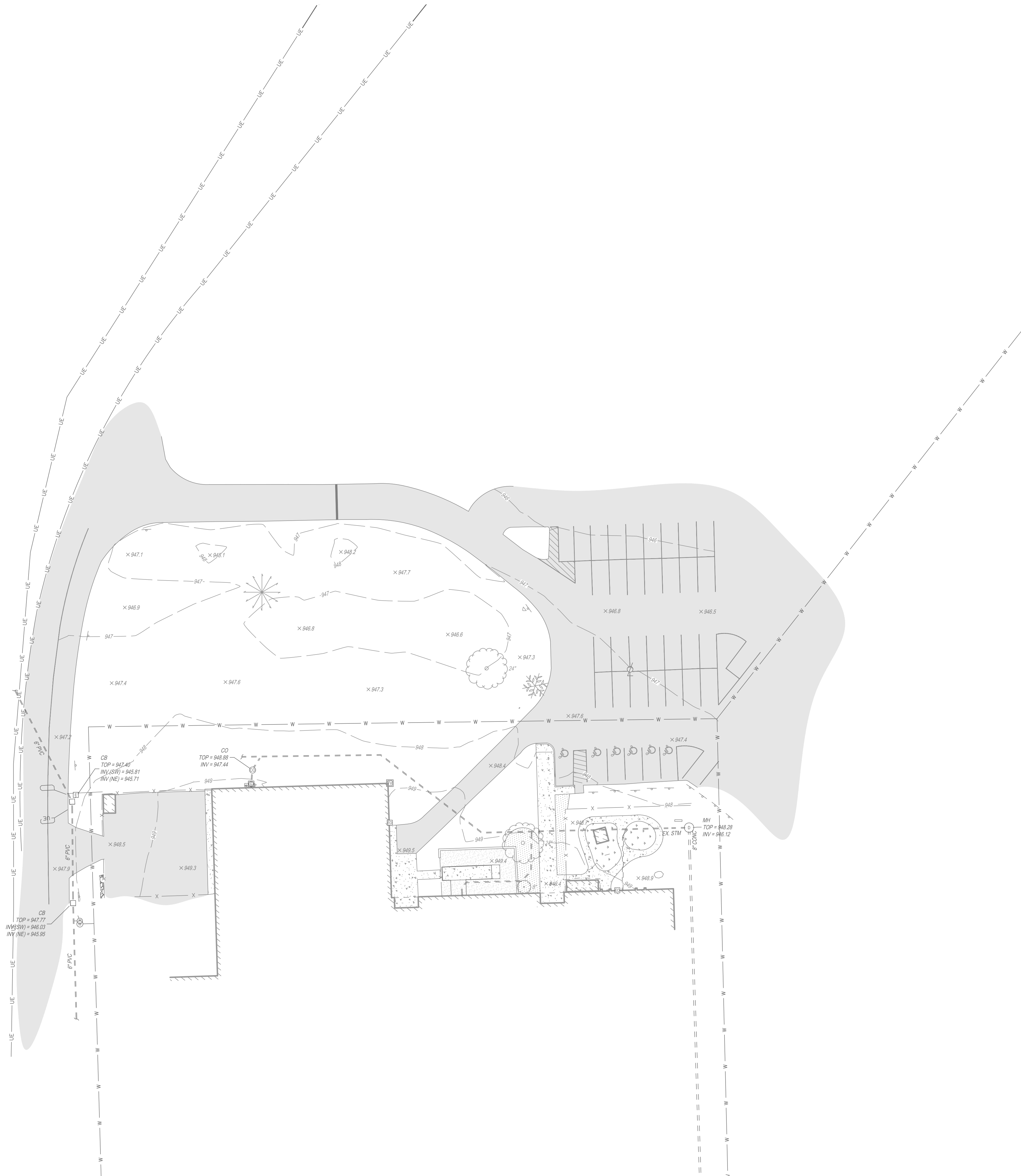
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GENERAL NOTES & DETAILS
C100

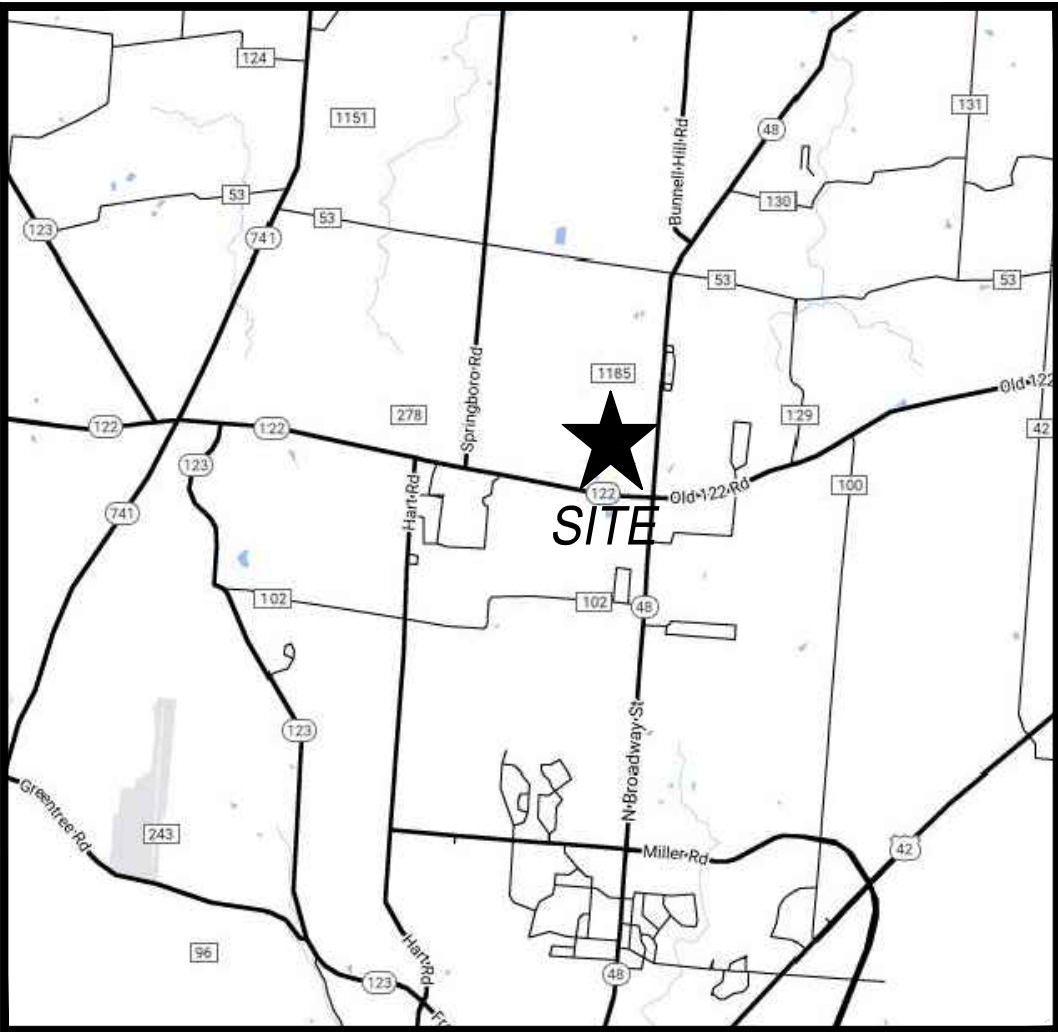


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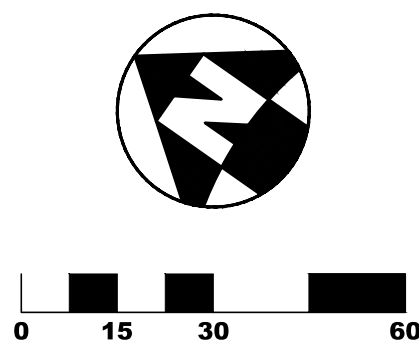
NOTES:

1. DISTANCE UNITS ARE BASED ON THE US SURVEY FOOT DEFINITION (1' = 1200/3837 METERS).
2. HORIZONTAL DATUM IS BASED ON AN ASSUMED COORDINATE SYSTEM.
3. VERTICAL DATUM IS BASED ON WARREN COUNTY GIS MONUMENT #110, ELEV = 941.76 (NAVD 88)



VICINITY MAP
N.T.S

- LEGEND:**
- | | | | |
|--|----------------------|--|-----------------|
| | SANITARY MANHOLE | | DECIDUOUS TREE |
| | CLEANOUT | | CONIFEROUS TREE |
| | CATCH BASIN | | BUSH |
| | ELECTRIC BOX | | ASPHALT |
| | ELECTRIC OUTLET | | CONCRETE |
| | LIGHT POLE | | GRAVEL |
| | CABLE BOX | | LANDSCAPE |
| | GAS METER | | ARTIFICIAL TURF |
| | FIRE HYDRANT | | RIP RAP |
| | WATER VALVE | | |
| | SINGLE POST SIGN | | |
| | HANDICAP | | |
| | FENCE LINE | | |
| | WATER LINE | | |
| | GAS LINE | | |
| | UNDERGROUND ELECTRIC | | |
| | STORM SEWER | | |
| | SANITARY SEWER | | |



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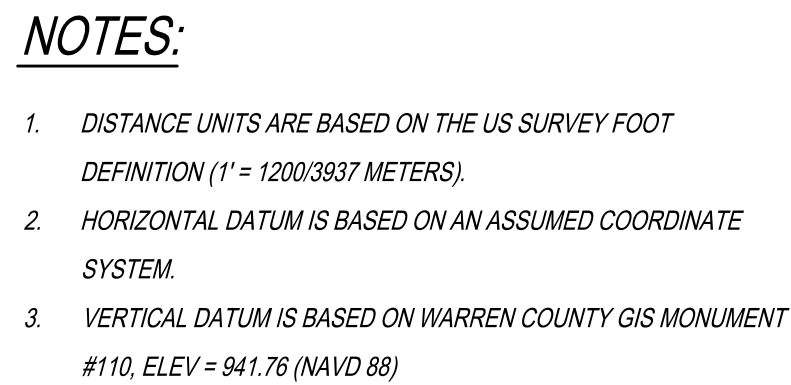
PROJECT NO:
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J. SHAW
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09/15/2026

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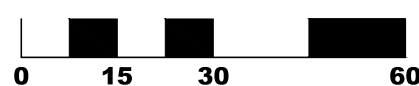
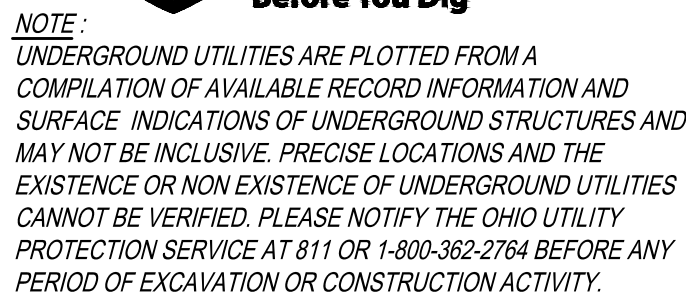
SURVEY BASEMAP

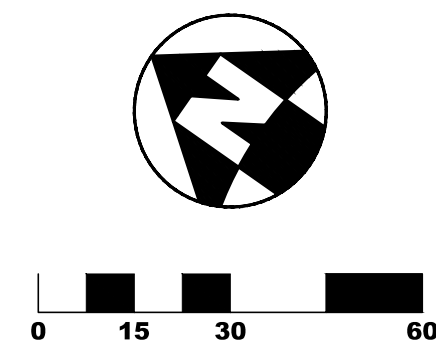
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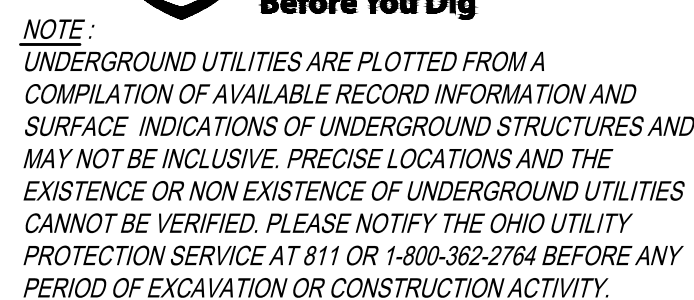
	SANITARY MANHOLE		DECIDUOUS TREE
	CLEANOUT		CONIFEROUS TREE
	CATCH BASIN		BUSH
	ELECTRIC BOX		ASPHALT
	ELECTRIC OUTLET		CONCRETE
	LIGHT POLE		GRAVEL
	CABLE BOX		LANDSCAPE
	GAS METER		ARTIFICIAL TURF
	FIRE HYDRANT		RIP RAP
	WATER VALVE		
	SINGLE POST SIGN		
	HANDICAP		
	FENCE LINE		
	WATER LINE		
	GAS LINE		
	UNDERGROUND ELECTRIC		
	STORM SEWER		
	SANITARY SEWER		

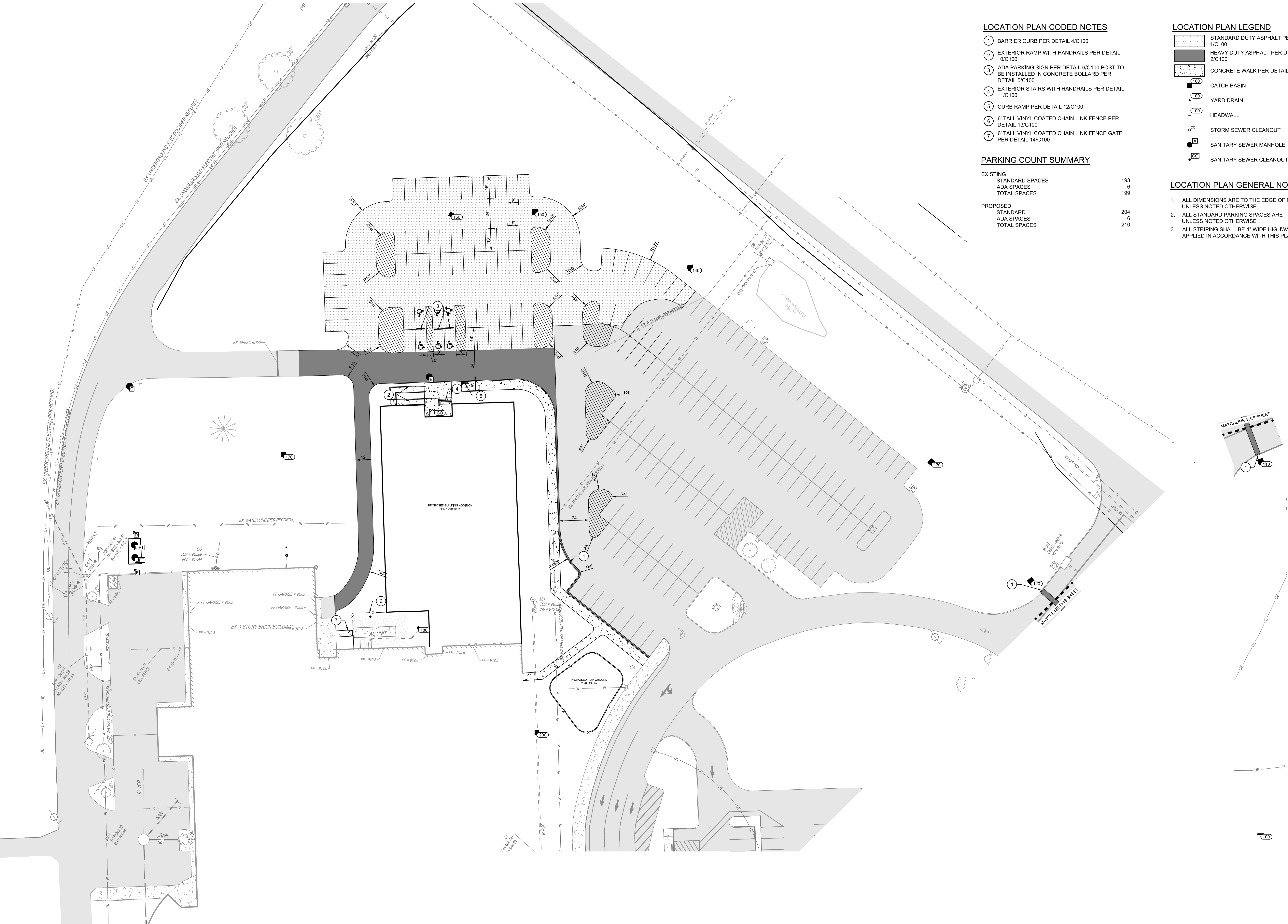
ALL ITEMS ON THIS SHEET OUTSIDE OF BOLD DASHED LINE ARE SHOWN PER COMBINATION OF RECORD DOCUMENTS AND PREVIOUS SURVEYS. THE CONTRACTOR IS RESPONSIBLE FOR VISITING SITE TO CONFIRM EXISTING CONDITIONS AND LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES





C120





LOCATION PLAN CODED NOTES

- 1 BARRIER CURB PER DETAIL 4/C100
- 2 EXTERIOR RAMP WITH HANDRAILS PER DETAIL 10/C100
- 3 ADA PARKING SIGN PER DETAIL 6/C100 POST TO BE INSTALLED IN CONCRETE BOLLARD PER DETAIL 5/C100
- 4 EXTERIOR STAIRS WITH HANDRAILS PER DETAIL 11/C100
- 5 CURB RAMP PER DETAIL 12/C100
- 6 6' TALL VINYL COATED CHAIN LINK FENCE PER DETAIL 13/C100
- 7 6' TALL VINYL COATED CHAIN LINK FENCE GATE PER DETAIL 14/C100

PARKING COUNT SUMMARY

EXISTING		
STANDARD SPACES	183	
ADA SPACES	6	
TOTAL SPACES	199	
PROPOSED		
STANDARD SPACES	204	
ADA SPACES	6	
TOTAL SPACES	210	

LOCATION PLAN LEGEND

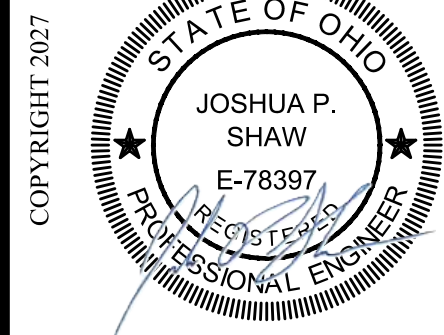
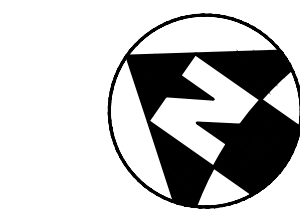
- STANDARD DUTY ASPHALT PER DETAIL 1/C100
- HEAVY DUTY ASPHALT PER DETAIL 2/C100
- CONCRETE WALK PER DETAIL 3/C100
- CATCH BASIN
- YARD DRAIN
- HEADWALL
- STORM SEWER CLEANOUT
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT

LOCATION PLAN GENERAL NOTES

1. ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS NOTED OTHERWISE
2. ALL STANDARD PARKING SPACES ARE TO BE 9' x 18' UNLESS NOTED OTHERWISE
3. ALL STRIPING SHALL BE 4" WIDE HIGHWAY-TYPE APPLIED IN ACCORDANCE WITH THIS PLAN



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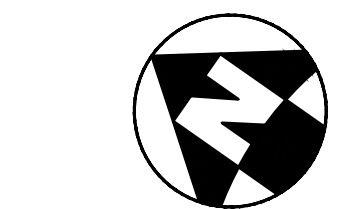
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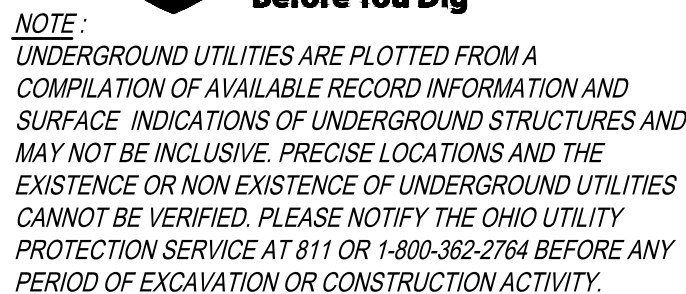
LOCATION PLAN

C130



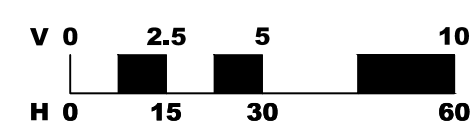
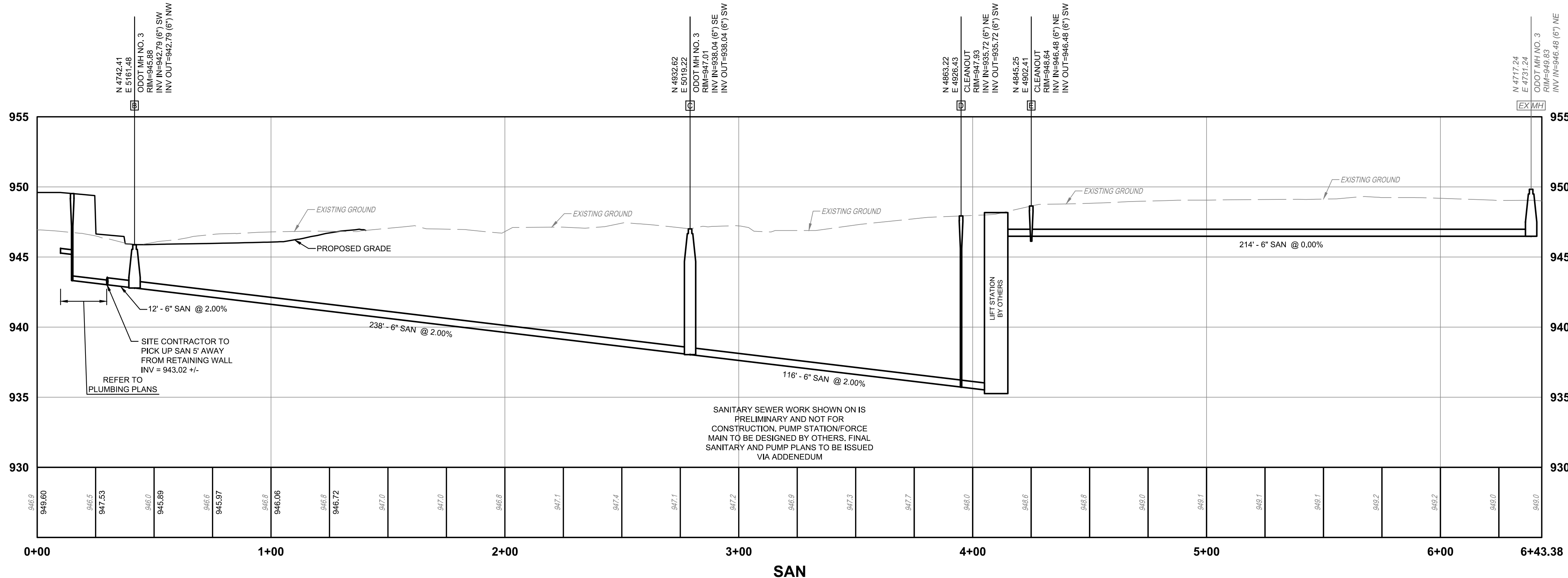
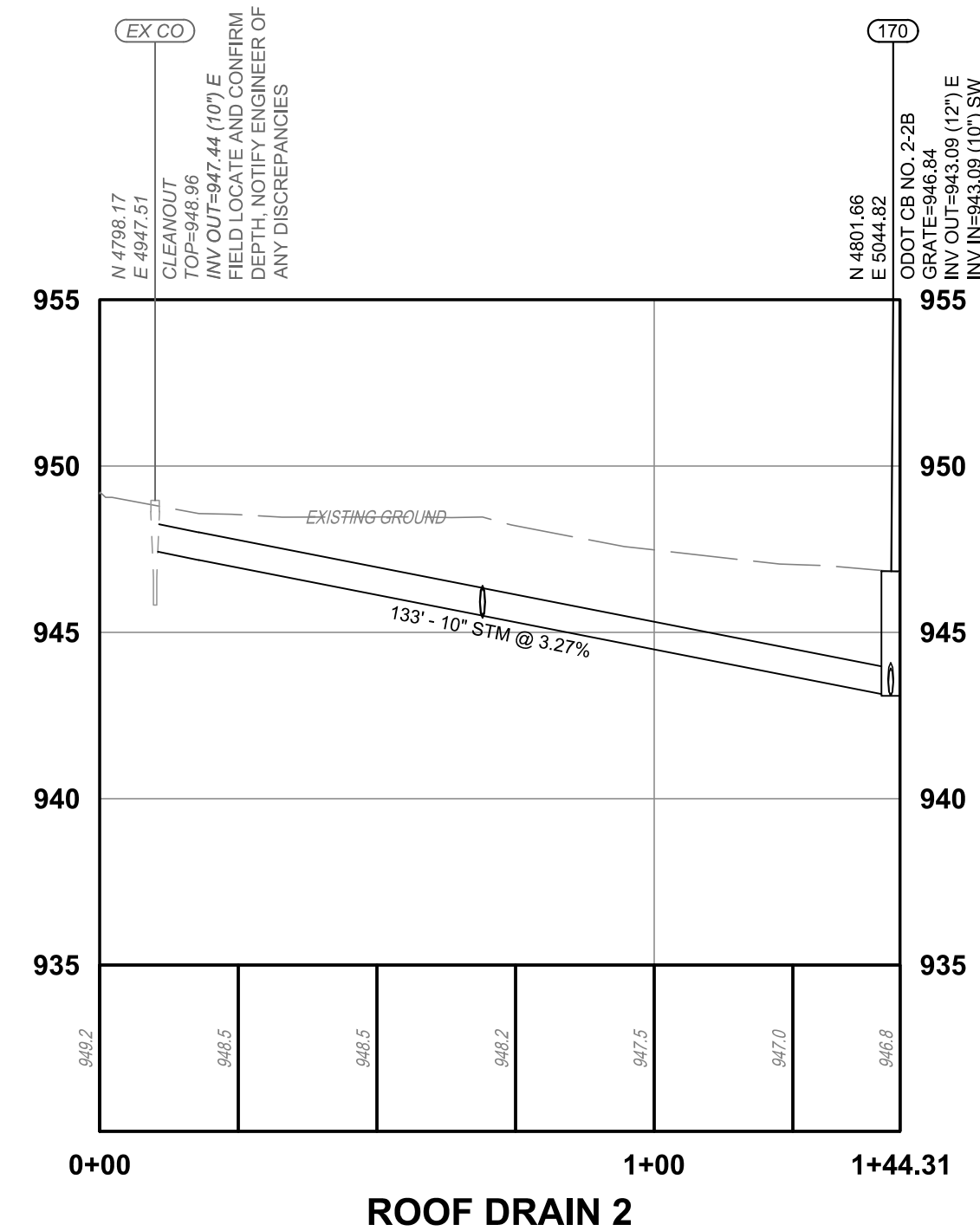
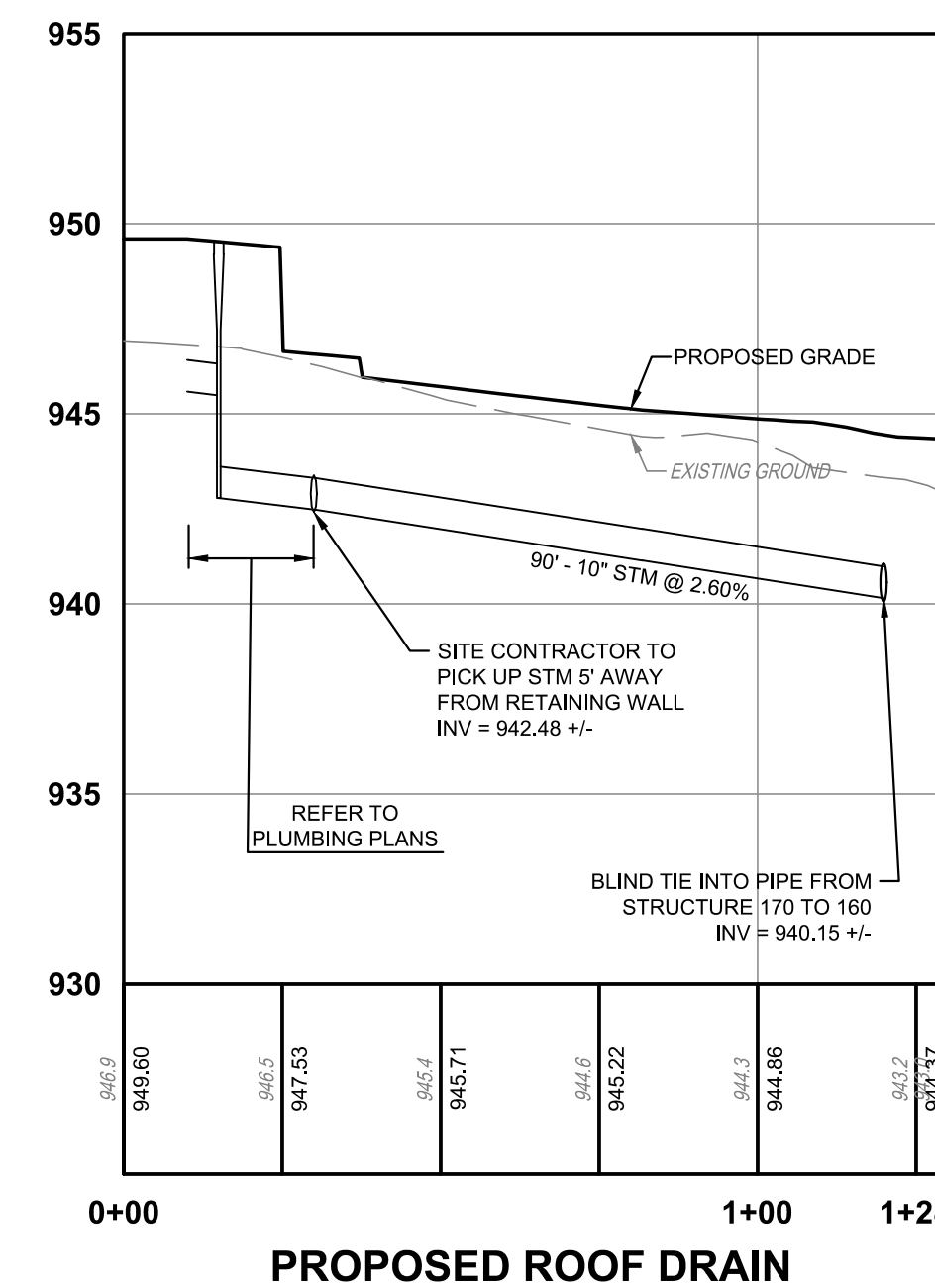
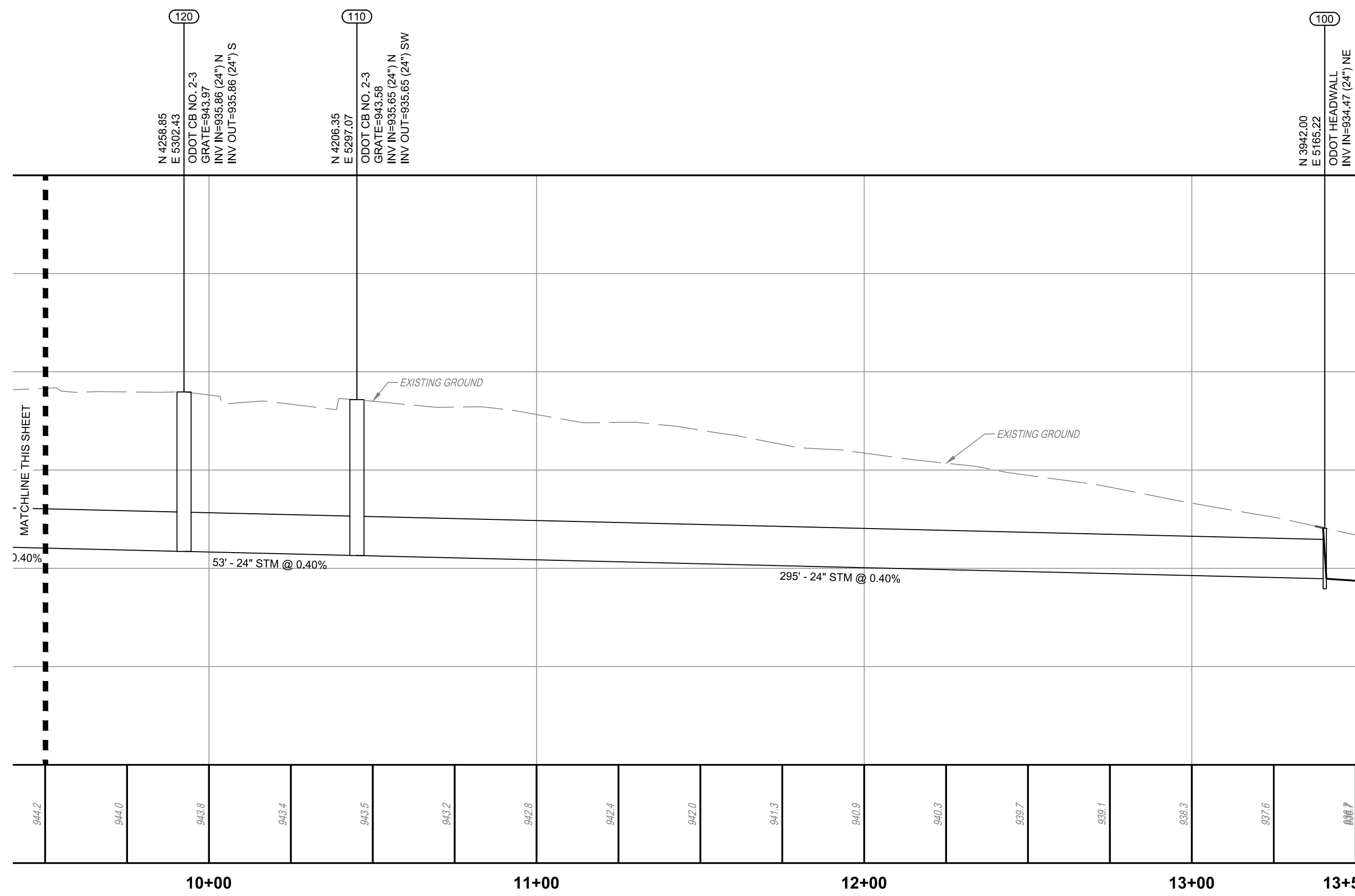
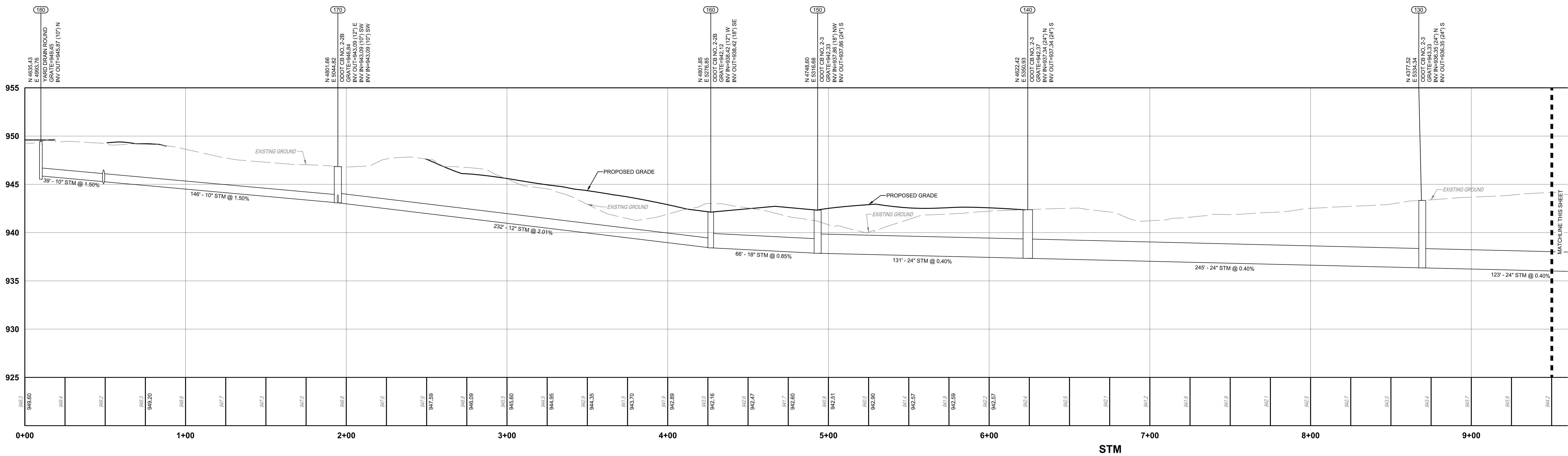
C140

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CONSULTANTS



WARREN COUNTY
CAREER CENTER
MEDICAL ACADEMY

3525 OH-46, Lebanon, OH 45036



PROJECT NO:

PROJECT #263306.00

CHECKED BY:

J. SHAW

DRAWN BY:

K. LAGRANGE

DATE: 01/15/2026

LEVIN PORTER
ARCHITECTS

3011 DELUMARK DRIVE
MANTISBURG, OHIO 45342
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UTILITY PROFILES

C141

PROJECT DATA

PROJECT DESCRIPTION
CONSTRUCTION OF A LAB ADDITION AT WARREN COUNTY CAREER CENTER WITH ASSOCIATED SITE AND UTILITY IMPROVEMENTS

LATITUDE: N 39°29'20.40"
LONGITUDE: W 84°12'07.30"
ESTIMATED CONSTRUCTION DATES: TBD

TOTAL SITE AREA: 165.01 ACRES
TOTAL DISTURBED AREA: 3.02 ACRES

EXISTING IMPERVIOUS AREA: X.XX ACRES
PROPOSED IMPERVIOUS AREA: X.XX ACRES
TOTAL IMPERVIOUS AREA AFTER CONSTRUCTION: X.XX ACRES
INCREASE IN IMPERVIOUS AREA: 0%

PRE-CONSTRUCTION RUNOFF COEFFICIENT : C=0.XX
POST-CONSTRUCTION RUNOFF COEFFICIENT : C=0.XX

IMMEDIATE RECEIVING WATER/MS4: XXXXX
ULTIMATE RECEIVING STREAM: XXXXX

EXISTING LAND USE: SCHOOL

SOILS: BtU - BROOKSTON, FINE-SILTY URBAN LAND COMPLEX, 0 TO 2% SLOPES
FNA - FINCASTLE SILT LOAM, SOUTHERN OHIO TILL PLAIN, 0 TO 2% SLOPES
FNUA - FINCASTLE, SOUTHERN OHIO TILL PLAIN-URBAN LAND COMPLEX, 0 TO 2 PERCENT SLOPES

CONSTRUCTION SEQUENCE

TO COMPLETE THE EXCAVATION AND CONSTRUCTION OF THE PROPOSED JOB IMPROVEMENTS, COORDINATION OF THE CONTRACTORS WORK CREWS WILL BE REQUIRED. THE EXISTING DITCHES WILL PERFORM TEMPORARY SEDIMENT CONTROL AND STORAGE DURING THE PROPOSED CONSTRUCTION. WORK WILL GENERALLY PROCEED FROM DOWNSTREAM TO UPSTREAM IN THESE WORK AREAS. THE GENERAL CONSTRUCTION SEQUENCE IS AS FOLLOWS:

A) INSTALL EROSION CONTROL ITEMS.
B) STRIP TOPSOIL AND ANY UNSUITABLE MATERIAL THROUGH THE INCREMENTAL WORK AREA.
C) INSTALL TEMPORARY DITCH CHECKS IN DOWNSTREAM END OF EXISTING DITCH WITHIN 24 HOURS FOLLOWING THE STRIPPING OPERATION.
D) IF U/G PIPE IS CALLED FOR IN THIS PORTION OF WORK AREA, PIPE CREW WILL INSTALL PIPE AS WELL AS MANHOLES.
E) AS PIPE INSTALLATION PROGRESSES, REPAIR OF THE ROADWAY WILL PROCEED BEHIND IT.
F) ANY DISTURBED OR EXPOSED AREAS SHALL BE STABILIZED PER OEPA TEMPORARY AND PERMANENT STABILIZATION REGULATIONS INCLUDING:

- SEEDING
- DITCH MATTING
- INLET PROTECTION
- MULCHING
- WATERING

EMERGENCY ACTION & SPILL PREVENTION PLAN

THE SCOPE OF WORK COVERED BY THIS PLAN INCLUDES EMERGENCY RESPONSE TO SPILLS, CONTAINMENT OF SPILLED LIQUIDS, EMERGENCY NOTIFICATION NUMBERS, AND SOIL EXCAVATION FOR SPILL CLEAN-UP.

IN THE EVENT OF A SPILL EVENT THE EMPLOYEE SHALL ASSESS THE SPILL AND IMMEDIATELY NOTIFY THE SAFETY OFFICER AND SUPERVISOR IN CHARGE, OR OTHER INDIVIDUALS AS LISTED BELOW.

TITLE	NAME	PHONE NUMBER
SITE SUPERINTENDENT		
PROJECT ENGINEER		

IMMEDIATELY AFTER NOTIFICATION, THE EMPLOYEE WILL BE DIRECTED BY THE SAFETY OFFICER, OR RESPONSIBLE PARTY TO START CONTAINMENT PROCEDURES TO PREVENT THE MATERIAL FROM REACHING THE STORM SEWERS, DRAINAGE DITCH, AND OTHER OUTLETS USING THE FOLLOWING ACTIONS OR ANY OTHER MEANS NECESSARY WITHOUT COMPROMISING WORKER SAFETY:

- CLEAR PERSONNEL FROM THE SPILL AREA AND ROPE OFF AREA.
- STOP THE SPILL.
- USE SORBENT MATERIALS, PLUG PUTTY, OR HOLE PUTTY AS NECESSARY TO CONTROL THE SPILL AT THE SOURCE.
- CONSTRUCT A TEMPORARY CONTAINMENT DIKE OF SORBENT MATERIALS OR DIRT TO CONTAIN SPILL.

SPILL KITS WILL BE LOCATED ON THE PROJECT AS DESIGNATED ON THE SWPPP PLAN.

UPON COMPLETION OF CONTAINMENT OPERATIONS, PROPER CLEAN-UP PROCEDURES WILL BE IMPLEMENTED IN ACCORDANCE WITH REGULATORY PROCEDURES.

IF THE SPILL EXCEEDS 25 GALLONS, THE FOLLOWING ORGANIZATIONS SHALL BE CONTACTED WITHIN 30 MINUTES OF THE INCIDENT:

EMERGENCY CONTACTS:

OHIO EPA EMERGENCY RESPONSE CENTER 800-282-9378 (24-HOUR PHONE NO.)

GENERAL NOTES

THE CONTRACTOR IS HEREBY ADVISED THAT STRICTER POLLUTION CONTROL STANDARDS AND ENFORCEMENT HAVE BEEN IMPOSED BY THE OHIO EPA SINCE MARCH 10, 2003 AND WITH REVISIONS IN APRIL 2018 AND IN APRIL 2023. ALSO, MANY PRIVATE CITIZEN ENVIRONMENTAL GROUPS, WHO HAVE BEEN KNOWN TO FILE CIVIL LEGAL ACTIONS, ARE PRESENT IN THE AREA AND OBSERVE ALL CONSTRUCTION OPERATIONS.

THE CONTRACTOR SHALL INFORM ALL SUBCONTRACTORS OF THE REQUIREMENTS AND RESPONSIBILITIES OF THE SWPPP AND SHALL DOCUMENT ALL SUCH NOTIFICATIONS AND/OR DISCUSSIONS.

THE CONTRACTOR WILL BE REQUIRED TO PARTICIPATE IN SEDIMENT AND EROSION CONTROL INSPECTIONS ON A WEEKLY BASIS AND SIGN AN APPROVED INSPECTION SHEET THAT SHALL BE KEPT ON FILE AT THE JOB SITE.

UNLESS OTHERWISE NOTED, STANDARDS AND SPECIFICATIONS ESTABLISHED IN THE LATEST EDITION OF THE OEPA "RAINWATER AND LAND DEVELOPMENT" HANDBOOK SHALL GOVERN THE EROSION AND SEDIMENT CONTROL INSTALLATIONS SPECIFIED ON THIS PLAN.

THIS PROJECT WILL INVOLVE SEVERAL CONSTRUCTION PHASES AND SEQUENCING THROUGHOUT ITS LIFETIME. IT IS VERY IMPORTANT THAT ALL TEMPORARY SEDIMENT AND EROSION CONTROL (S&EC) FIELD METHODS ALONG WITH THIS PLAN, ARE UPDATED TO REFLECT THE ACTUAL FIELD CONDITIONS, CURRENT WEATHER CONDITIONS AND SITE GRADE CHANGES. THE ENGINEER OR THE OHIO EPA CAN AND WILL MODIFY THIS PLAN AS NECESSARY.

THE CONTRACTOR WILL VOLUNTARILY SELF REPORT ANY POTENTIAL VIOLATIONS OF THE OEPA NPDES PERMIT TO THE ENGINEER AND THE OEPA.

THE CONTRACTOR SHALL REMOVE EXISTING GROUND COVER ONLY AS NECESSARY FOR THE PROJECT PHASE CURRENTLY UNDER CONSTRUCTION.

CONSTRUCTION AND DEMOLITION DEBRIS SHALL BE PROPERLY DISPOSED OF ACCORDING TO OHIO EPA REQUIREMENTS.

THE CONTRACTOR WILL BE REQUIRED TO BUILD SEDIMENT BASINS OR SEDIMENT TRAPS OR USE EQUAL METHODS TO DETAIN AND CLEAN WATER TO ACCEPTABLE EPA STANDARDS BEFORE RELEASING THE WATER BACK INTO THE STREAM.

THERE SHALL BE NO TURBID DISCHARGES TO SURFACE WATERS, RESULTING FROM DEWATERING ACTIVITIES. SEDIMENT-LADEN WATER MUST PASS THROUGH A SETTLING POND, FILTER BAG, OR OTHER COMPARABLE PRACTICE, PRIOR TO DISCHARGE.

NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF.

ALL PROCESS WASTEWATER (EQUIPMENT WASHING, LEACHATE FROM ON-SITE WASTE DISPOSAL, ETC.) SHALL BE COLLECTED AND DISPOSED OF AT A PUBLICLY OWNED TREATMENT WORKS.



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ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH ALL LOCAL EROSION/SEDIMENT CONTROL, WASTE DISPOSAL, SANITARY AND HEALTH REGULATIONS.

OTHER EROSION CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND IMPLEMENTATION OF ADDITIONAL EROSION CONTROL ITEMS, AT THE ENGINEERS DISCRETION.

NO SOIL, ROCK, DEBRIS OR OTHER MATERIAL SHALL BE DUMPED OR PLACED IN ANY AREAS NOT ADEQUATELY PROTECTED BY EROSION CONTROL INSTALLATIONS.

IT IS REFERRED TO USE PERMANENT EROSION CONTROL ITEMS AS SHOWN IN THE PLANS TO CONTROL CONSTRUCTION POLLUTION WHEN POSSIBLE. OTHERWISE, THE TEMPORARY POLLUTION PREVENTION ITEMS ARE TO BE USED.

MOST TEMPORARY S&EC METHODS, INCLUDING BUT NOT LIMITED TO, SILT FENCE AND DITCH CHECKS MAY ALL HAVE TO BE PERIODICALLY REMOVED AND REPLACED, OR MOVED FROM THE EXISTING ROAD DITCH OR STRIPPED AREAS AS WORK PROGRESSES. ANY CHANGES SHALL BE NOTED IN THE PLAN BY RED LINE AND DATED ON A CORRECTIVE ACTION LOG.

ALL TEMPORARY SEDIMENT CONTROLS AND STORM WATER QUALITY METHODS WILL BE BUILT/INSTALLED AS THE PROJECT PROGRESSES TO ELIMINATE UNNECESSARY DISTURBANCE AND REDUNDANCY. ALL TEMPORARY CONTROLS SHALL BE IN PLACE AND FUNCTIONING PROPERLY WHEN THREATENING WEATHER IS IMMINENT.

"TEMPORARY STABILIZATION" MEANS THE ESTABLISHMENT OF TEMPORARY VEGETATION, MULCHING, GEOTEXTILES, SOD, PRESERVATION OF EXISTING VEGETATION AND OTHER TECHNIQUES CAPABLE OF QUICKLY ESTABLISHING COVER OVER DISTURBED AREAS TO PROVIDE EROSION CONTROL BETWEEN CONSTRUCTION OPERATIONS.

"PERMANENT STABILIZATION" MEANS THE ESTABLISHMENT OF PERMANENT VEGETATION, DECORATIVE LANDSCAPE MULCHING, MATTING, SOD, RIP RAP AND LANDSCAPING TECHNIQUES TO PROVIDE PERMANENT EROSION CONTROL ON AREAS WHERE CONSTRUCTION OPERATIONS ARE COMPLETE OR WHERE NO FURTHER DISTURBANCE IS EXPECTED FOR AT LEAST A YEAR.

OFF-SITE TRACKING OF SEDIMENTS SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. ALL PAVED STREETS ADJACENT TO THE SITE WILL BE SWEEP DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP.

STABILIZATION PRACTICES

PERMANENT SEEDING AND MULCHING STABILIZATION SHALL BE PROVIDED PER OEPA GUIDELINES AS SET FORTH IN PART II.B OF OHIO EPA PERMIT NO.: OHC000006. (SEE TABLE 1)

TABLE 1: PERMANENT STABILIZATION	
AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE
ANY AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE
ANY OTHER AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA

TEMPORARY SEEDING AND MULCHING STABILIZATION SHALL BE PROVIDED PER OEPA GUIDELINES AS SET FORTH IN PART II.B OF OHIO EPA PERMIT NO.: OHC000006. (SEE TABLE 2)

TABLE 2: TEMPORARY STABILIZATION	
AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY DISTURBED AREAS WITH 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST SEVEN DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S).
	PRIOR TO THE ONSET OF WINTER WEATHER

ALL TEMPORARY EROSION AND SEDIMENT CONTROL INSTALLATIONS SHALL BE REMOVED WHEN 70% VEGETATION HAS BEEN REACHED.

SEEDING & MULCHING

MULCH AND/OR OTHER APPROPRIATE VEGETATIVE PRACTICES SHALL BE APPLIED TO DISTURBED AREAS WITHIN 7 DAYS OF GRADING IF THE AREA IS TO REMAIN DORMANT (UNDISTURBED) FOR MORE THAN 14 DAYS OR ON AREAS AND PORTIONS OF THE SITE WHICH CAN BE BROUGHT TO FINAL GRADE.

MULCH SHALL CONSIST OF UNROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 2 TONS/AC, OR 90 LB./1000 SQ. FT. (TWO TO THREE BALES). THE STRAW MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1000-SQ.-FT. SECTIONS AND PLACE TWO 45-LB. BALES OF STRAW IN EACH SECTION.

MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR RUNOFF. THE FOLLOWING ARE ACCEPTABLE METHODS FOR ANCHORING MULCH:

- MECHANICAL-USE A DISK, CRIMPER, OR SIMILAR TYPE TOOL SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT BE LEFT GENERALLY LONGER THAN 6 IN.
- MULCH NETTINGS-USE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, FOLLOWING ALL PLACEMENT AND ANCHORING SUGGESTIONS. USE IN AREAS OF WATER CONCENTRATION AND STEEP SLOPES TO HOLD MULCH IN PLACE.
- SYNTHETIC BINDERS-FOR STRAW MULCH, SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER. ALL APPLICATIONS OF SYNTHETIC BINDERS MUST BE CONDUCTED IN SUCH A MANNER WHERE THERE IS NO CONTACT WITH WATERS OF THE STATE
- WOOD CELLULOSE FIBER - WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. THE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LB./ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB./100 GAL. OF WOOD CELLULOSE FIBER.

TEMPORARY SEEDING & MULCHING FOR EROSION CONTROL		
SEED TYPE	PER 1,000 SQ. FT.	PER ACRE
PERENNIAL RYEGRASS	1 POUND	40 POUNDS
TALL FESCUE	1 POUND	40 POUNDS
ANNUAL RYEGRASS	1 POUND	40 POUNDS
SMALL GRAIN STRAW	90 POUNDS	2 TONS
FERTILIZER	6 POUNDS OF 10-10-10 OR 12-12-12	250 POUNDS OF 10-10-10 OR 12-12-12

NOTE: OTHER APPROVED SPECIES MAY BE SUBSTITUTED

STOCKPILE

SILT FENCING SHALL BE INSTALLED AROUND TEMPORARY SPOIL STOCKPILES. THESE STOCKPILES SHALL BE STRAW MULCHED AND/OR TEMPORARILY SEEDED WITHIN 7 WORKING DAYS IF LEFT DORMANT FOR 14 DAYS OR LONGER.

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, CONSTRUCTION ENTRANCE(S) AND SILT FENCE WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. SEDIMENT CONTROL DEVICES SHALL BE IMPLEMENTED FOR ALL AREAS REMAINING DISTURBED LONGER THAN 14 DAYS AND/OR WITHIN 7 DAYS OF ANY GRUBBING ACTIVITIES. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 14 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN 7 DAYS OF THE LAST DISTURBANCE IF THE AREA IS WITHIN 50 FEET OF A STREAM, AND WITHIN 7 DAYS OF THE LAST DISTURBANCE IF THE AREA IS MORE THAN 50 FEET AWAY FROM A STREAM. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE BASIN.

STABILIZATION TYPE	J	F	M	A	M	J	J	A	S	O	N	D
PERMANENT SEEDING				*	*	*	*	*	*	*	*	*
DORMANT SEEDING	*	*	*	*	*	*	*	*	*	*	*	*
TEMPORARY SEEDING			*	*	*	*	*	*	*	*	*	*
SODDING		**	**	**	**	**	**	**	**	**	**	**
MULCHING	*	*	*	*	*	*	*	*	*	*	*	*

* IRRIGATION NEEDED

** IRRIGATION NEEDED FOR 2-3 WEEKS AFTER SOD IS APPLIED

INSPECTIONS

ALL BMPS ON THIS SITE SHALL BE INSPECTED BY "QUALIFIED INSPECTION PERSONNEL" ASSIGNED BY THE CONTRACTOR OR DESIGNATED REPRESENTATIVE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND BY THE END OF THE NEXT CALENDAR DAY, EXCLUDING WEEKENDS AND HOLIDAYS UNLESS WORK IS SCHEDULED. AFTER A RAIN EVENT OF 0.5 INCHES PER 24 HOUR PERIOD, A RECORD OF THESE INSPECTIONS SHALL BE MAINTAINED IN THE CONSTRUCTION OFFICE WITH THE SWPPP FOR PUBLIC VIEWING. ANY VIOLATIONS WILL BE REPORTED THROUGH THE PROJECT PERSONNEL. A RAIN GAUGE WILL BE LOCATED WITHIN THE PROJECT LIMITS.

FOLLOWING EACH INSPECTION, A CHECKLIST MUST BE COMPLETED AND SIGNED BY THE QUALIFIED INSPECTION PERSONNEL REPRESENTATIVE. AT A MINIMUM, THE INSPECTION REPORT SHALL INCLUDE:

- THE INSPECTION DATE;
- NAMES, TITLES, AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION;
- WEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPECTION (OR SINCE COMMENCEMENT OF CONSTRUCTION ACTIVITY IF THE FIRST INSPECTION) INCLUDING A BEST ESTIMATE OF THE BEGINNING OF EACH STORM EVENT, DURATION OF EACH STORM EVENT, APPROXIMATE AMOUNT OF RAINFALL FOR EACH STORM EVENT (IN INCHES), AND WHETHER ANY DISCHARGES OCCURRED;
- WEATHER INFORMATION AND A DESCRIPTION OF ANY DISCHARGES OCCURRING AT THE TIME OF THE INSPECTION;
- LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE;
- LOCATION(S) OF BMPS THAT NEED TO BE MAINTAINED;
- LOCATION(S) OF BMPS THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION;
- LOCATION(S) WHERE ADDITIONAL BMPS ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION; AND
- CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO THE SWP3 NECESSARY AND IMPLEMENTATION DATES.

MAINTENANCE

THE CONTRACTOR SHALL MAINTAIN, REPAIR, OR REPLACE ALL EROSION CONTROL INSTALLATIONS AS NEEDED TO ENSURE THE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL REPAIRS TO BMPS SHALL BE MADE WITHIN 3 DAYS (OR SOONER IF POSSIBLE) OF NOTIFICATION OF DEFICIENCIES. IF THE CORRECTIONS ARE NOT MADE WITHIN THE 3 DAY PERIOD, LIQUIDATED DAMAGES MAY BE ASSESSED AS PER THE ODOT CMS SECTION 108.07.

ONGOING INSPECTION OF INSTALLATIONS WILL BE PERFORMED BY THE CONTRACTOR OR DESIGNATED REPRESENTATIVE.

ANY TRAPPED SEDIMENT OR DEBRIS REMOVED DURING CLEANING OF OR REMOVAL OF BMP INSTALLATIONS SHALL BE PLACED IN AREAS NOT SUBJECT TO EROSION AND PERMANENTLY STABILIZED.

DUST CONTROL

DUST CONTROL INVOLVES PREVENTING OR REDUCING DUST FROM EXPOSED SOILS OR OTHER SOURCES DURING LAND DISTURBING, DEMOLITION AND CONSTRUCTION ACTIVITIES TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY PRESENT HEALTH HAZARDS, TRAFFIC SAFETY PROBLEMS OR HARM ANIMAL OR PLANT LIFE.

THE FOLLOWING SPECIFICATIONS FOR DUST CONTROL SHALL BE FOLLOWED ONSITE:

- VEGETATIVE COVER AND MULCH - APPLY TEMPORARY OR PERMANENT SEEDING AND MULCH TO AREAS THAT WILL REMAIN IDLE FOR OVER 14 DAYS. SAVING EXISTING TREES AND LARGE SHRUBS WILL ALSO REDUCE SOIL AND AIR MOVEMENT ACROSS DISTURBED AREAS. SEE TEMPORARY SEEDING; PERMANENT SEEDING; MULCHING PRACTICES; AND TREE AND NATURAL AREA PROTECTION PRACTICES.
- WATERING - SPRAY SITE WITH WATER UNTIL THE SURFACE IS WET BEFORE AND DURING GRADING AND REPEAT AS NEEDED, ESPECIALLY ON HAUL ROADS AND OTHER HEAVY TRAFFIC ROUTES. WATERING SHALL BE DONE AT A RATE THAT PREVENTS DUST BUT DOES NOT CAUSE SOIL EROSION. WETTING AGENTS SHALL BE UTILIZED ACCORDING TO MANUFACTURERS INSTRUCTIONS.
- SPRAY-ON ADHESIVES - APPLY ADHESIVE ACCORDING TO THE FOLLOWING TABLE OR MANUFACTURERS' INSTRUCTIONS.

ADHESIVE	WATER DILUTION (ADHESIVE:WATER)	NOZZLE TYPE	APPLICATION RATE (GAL/AC)
LATEX EMULSION	12.5:1	FINE	235
RESIN IN WATER ACRYLIC EMULSION (NO TRAFFIC)	4:1	FINE	300
ACRYLIC EMULSION (NO TRAFFIC)	7:1	COARSE	450
ACRYLIC EMULSION (TRAFFIC)	3.5:1	COARSE	350

PERMITTEE

NAME
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ADDRESS2
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EMAIL:

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DATE OF ISSUE: XX/XX/XXXX

SPILL PREVENTION

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

GOOD HOUSEKEEPING:

- AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
- ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
- PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
- SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
- WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
- MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
- THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.

HAZARDOUS PRODUCTS:

- PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
- ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
- IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

- ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
- MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
- THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE. SPILLS OF 25 OR MORE GALLONS OF PETROLEUM WASTE MUST BE REPORTED TO OHIO EPA (1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MINUTES OF THE SPILL. ALL SPILLS, WHICH RESULT IN CONTACT WITH WATERS OF THE STATE, MUST BE REPORTED TO THE OHIO EPA'S HOTLINE.
- SOILS CONTAMINATED BY PETROLEUM OR OTHER CHEMICAL SPILLS MUST BE TREATED/DISPOSED AT AN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITY OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITY (TSDF).
- THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
- THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE WILL DESIGNATE SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ONSITE.

PRODUCT SPECIFIC PRACTICES

PETROLEUM PRODUCTS

ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FUEL STORAGE TANKS SHALL BE LOCATED AWAY FROM SURFACE WATERS AND STORM SEWER SYSTEM INLETS. FUEL TANKS SHALL BE STORED IN A DIKED AREA CAPABLE OF HOLDING 150% OF THE TANK CAPACITY.

FERTILIZERS

FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED SHED, THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS

ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE WASH WATER/WASH OUTS

CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE. A SUMP OR PIT WITH NO POTENTIAL FOR DISCHARGE SHALL BE CONSTRUCTED IF NEEDED TO CONTAIN CONCRETE WASH WATER. FIELD TIE OR OTHER SUBSURFACE DRAINAGE STRUCTURES WITHIN 10' OF THE SUMP SHALL BE CUT AND PLUGGED. FOR SMALL PROJECTS, TRUCK CHUTES MAY BE RINSED ON THE LOT AWAY FROM ANY WATER CONVEYANCES.

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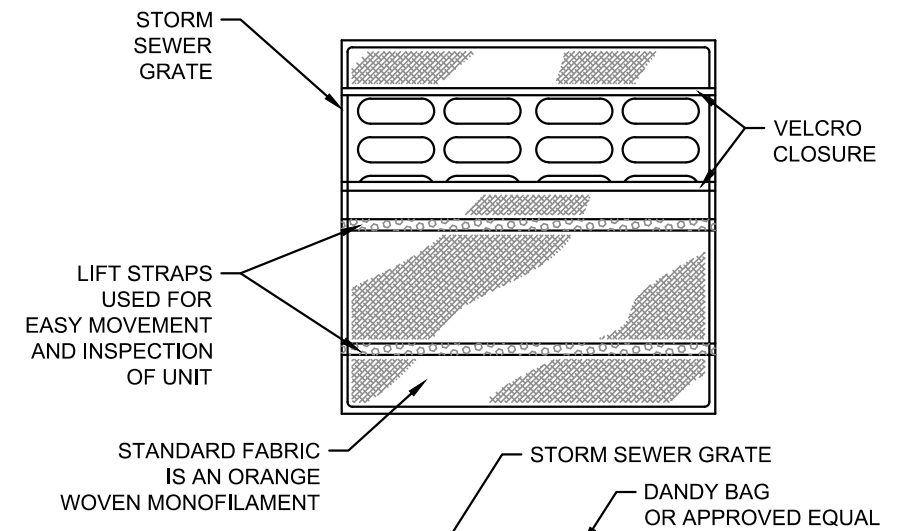
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EROSION CONTROL NOTES
C160

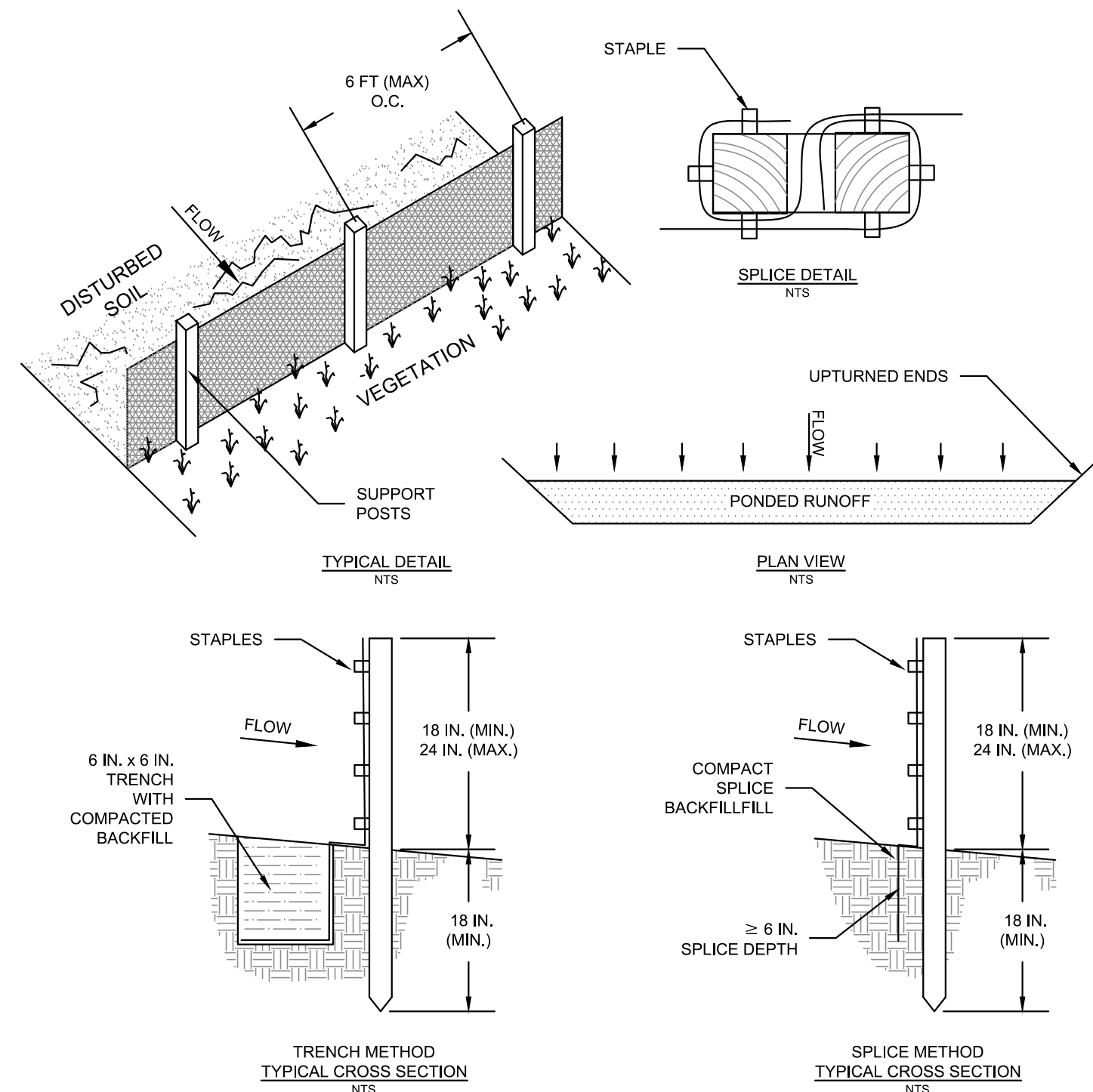


MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	KN (LBS)	1.62 (365) X 0.89 (200)
GRAB TENSILE ELONGATION	ASTM D 4632	%	24 X 10
PUNCTURE STRENGTH	ASTM D 4533	KN (LBS)	0.40 (90)
MULLEN BURST STRENGTH	ASTM D 3788	KPA (PSI)	3097 (450)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	KN (LBS)	0.51 (115) X 0.33 (75)
UV RESISTANCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	MM (US STD SIEVE)	0.425 (40)
FLOW RATE	ASTM D 4491	1/MIN/FT (GAL/MIN/FT)	5907 (145)
PERMITTIVITY	ASTM D 4491	SEC	2.1

INSTALLATION: THE EMPTY DANDY BAG SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END. IF USING OPTIONAL OIL ABSORBENTS: PLACE ABSORBENT PILLOW IN POUCH ON THE BOTTOM (BELOW-GRADE SIDE) OF THE UNIT. ATTACH ABSORBENT PILLOW TO TETHER LOOP. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE. HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE), PLACE THE GRATE INTO ITS FRAME.

MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE DANDY BAG AS NEEDED. IF USING OPTIONAL OIL ABSORBENTS: REMOVE AND REPLACE ABSORBENT PILLOW WHEN NEAR SATURATION.

DANDY BAG DETAIL
N.T.S.



SCOPE

FURNISH ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY FOR CONSTRUCTING SILT FENCE IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND THESE SPECIFICATIONS. SILT FENCE SHALL BE INSTALLED AND OPERATIONAL BEFORE UPSLOPE LAND DISTURBANCE BEGINS.

MATERIALS

- SUPPORT POSTS SHALL BE 2-INCH BY 2-INCH WOOD POSTS OF SOUND QUALITY OR EQUIVALENT.
- GEOTEXTILE FABRIC SHALL MEET THE MINIMUM CRITERIA LISTED IN TABLE BELOW:

FABRIC PROPERTIES	VALUES	TEST METHOD
PERMITTIVITY	<0.05 SEC	ASTM D 4491
APPARENT OPENING SIZE	<0.6 MM (20 SIEVE)	ASTM D 4751
MINIMUM GRAB TENSILE STRENGTH	90 LB	ASTM D 4632
MINIMUM TEAR STRENGTH	60 LB	ASTM D 4533
MINIMUM PUNCTURE STRENGTH	325 LB	ASTM D 4533
UV STABILITY	70% AFTER 500 HRS	ASTM D 4355

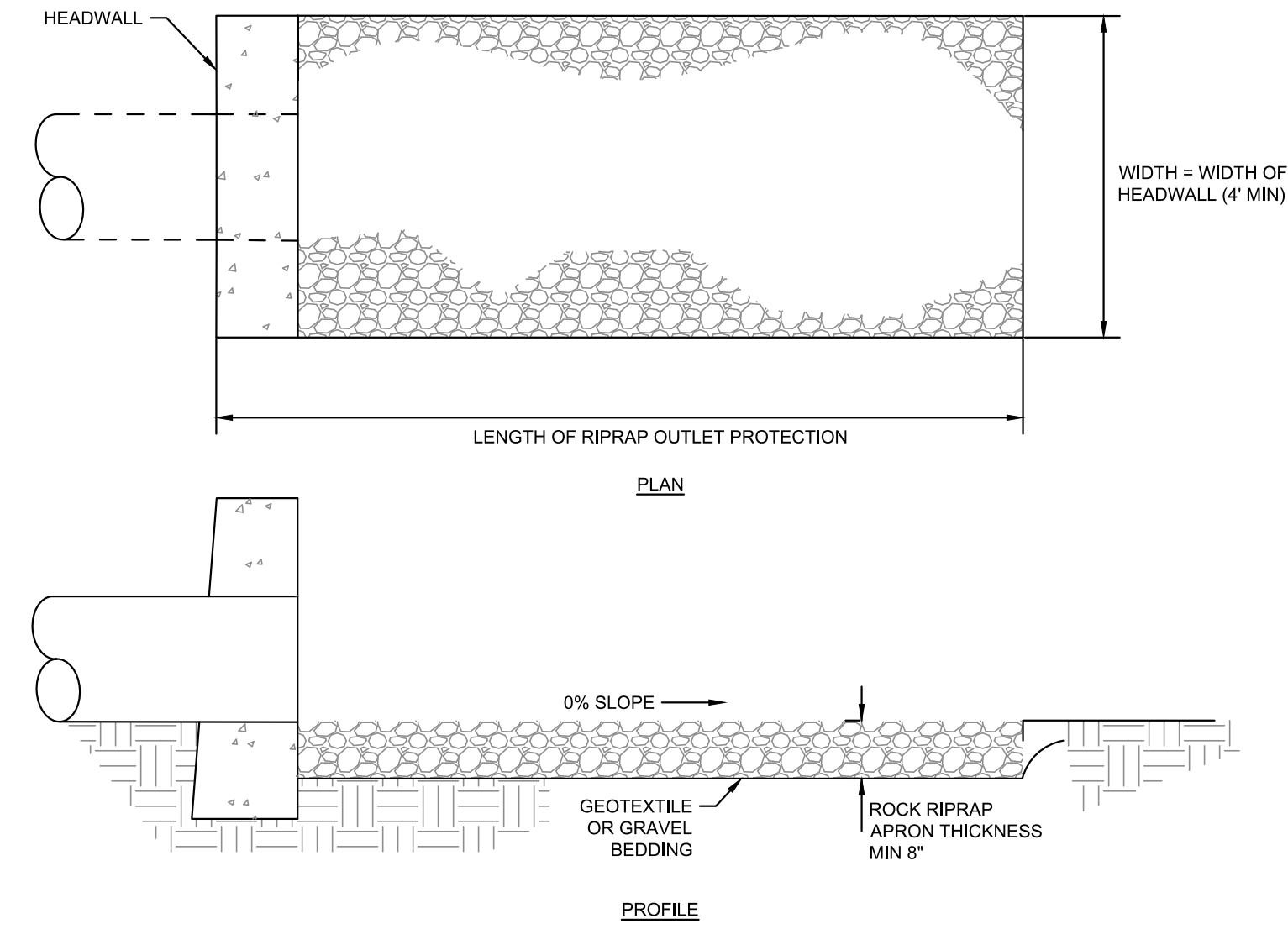
INSTALLATION

- THE ABOVE-GROUND HEIGHT OF THE SILT FENCE SHOULD BE 18 INCHES, BUT NO MORE THAN 24 INCHES. A HIGHER SILT FENCE MAY NOT WITHSTAND THE WEIGHT OF WATER AND SEDIMENT BEHIND IT AND IS NOT RECOMMENDED.
- SUPPORT POSTS SHALL BE PLACED ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE AT A MAXIMUM SPACING OF 6 FEET (10 FEET FOR WIRE-SUPPORTED SILT FENCE) AND DRIVEN A MINIMUM OF 18 INCHES INTO THE SOIL OR ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE SILT FENCE WHERE BEDROCK OR BURIED UTILITIES PREVENT AN 18-INCH GROUND PENETRATION.
- FASTEN THE GEOTEXTILE TO THE UPSLOPE SIDE OF POSTS WITH A MINIMUM OF FOUR STAPLES PER POST, SUCH THAT IT REMAINS SECURE AND TAUT BUT DOES NOT RIP.
- THE BOTTOM 8 TO 12 INCHES OF GEOTEXTILE SHALL BE BURIED IN A "U" CONFIGURATION IN A TRENCH A MINIMUM OF 6 INCHES WIDE AND 6 INCHES DEEP OR SLICED 8 TO 12 INCHES DEEP. A MINIMUM OF 8 INCHES OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE, COMPACT SOIL ON BOTH SIDES OF THE FABRIC, OFFSETTING THE TRENCH 6 INCHES UPSTREAM FROM THE SILT FENCE IS RECOMMENDED TO IMPROVE THE STABILITY OF THE SUPPORT STAPLES.
- INSTALL SILT FENCE IN CONTINUOUS SEGMENTS WITH UPTURNED ENDS, WHERE NECESSARY. SPLICES SHALL BE MADE BY OVERLAPPING GEOTEXTILE MATERIALS AROUND SUPPORT POSTS TO PROVIDE A SECURE AND SEAMLESS JOINT.

MAINTENANCE AND REMOVAL

- INSPECT SILT FENCE AFTER EACH 0.50-INCH OR GREATER RAIN EVENT AND AT LEAST DAILY DURING MULTI-DAY RAIN EVENTS. INSPECTIONS DURING RAIN EVENTS WILL AID IN EVALUATING PERFORMANCE. IF BYPASS OCCURS DURING 0.50 INCHES OF RAIN OR LESS, CHANGE THE LAYOUT OR REPLACE THE SILT FENCE WITH A SEDIMENT TRAP AS NECESSARY.
- SILT FENCE THAT DOES NOT Dewater IN 48 HOURS OR LESS IS CLOGGED AND NEEDS TO BE REPLACED.
- REMOVE SEDIMENT WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE SILT FENCE. IF SEDIMENT ACCUMULATES BEYOND THIS LEVEL, THE FABRIC WILL LIKELY BE CLOGGED AND NEED TO BE REPLACED.
- REPAIR DAMAGED SILT FENCE UPON DISCOVERY.

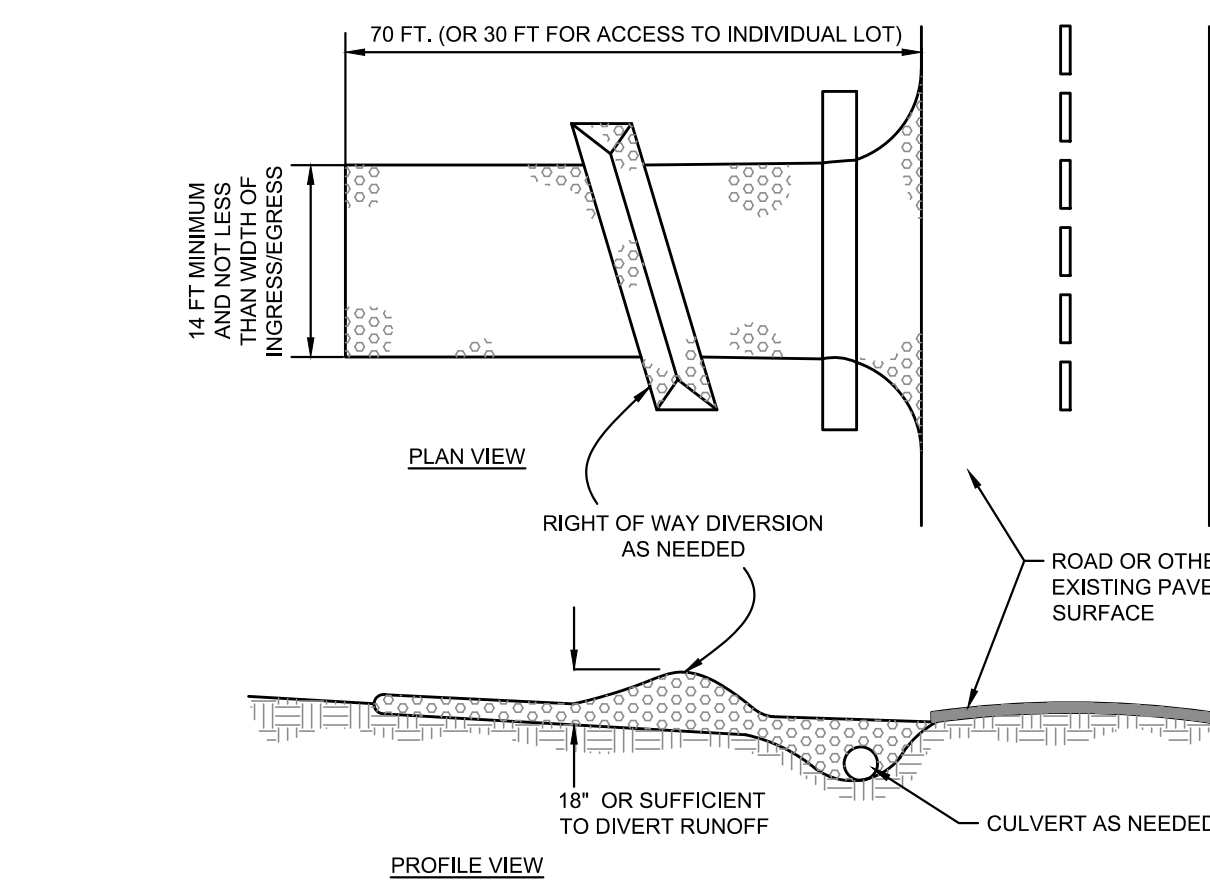
SILT FENCE DETAIL
N.T.S.



NOTES

- SUBGRADE FOR THE FILTER OR BEDDING AND RIPRAP SHALL BE PREPARED TO THE REQUIRED LINES AND GRADES AS SHOWN ON THE PLAN. THE SUBGRADE SHALL BE CLEARED OF ALL TREES, STUMPS, ROOTS, SOD, LOOSE ROCK, OR OTHER MATERIAL.
- RIPRAP SHALL CONFORM TO THE GRADING LIMITS AS SHOWN ON THE PLAN.
- GEOTEXTILE SHALL BE SECURELY ANCHORED ACCORDING TO MANUFACTURERS' RECOMMENDATIONS.
- GEOTEXTILE SHALL BE LAID WITH THE LONG DIMENSION PARALLEL TO THE DIRECTION OF FLOW AND SHALL BE LAID LOOSELY BUT WITHOUT WRINKLES AND CREASES. WHERE JOINTS ARE NECESSARY, STRIPS SHALL BE PLACED TO PROVIDE A 12-IN. MINIMUM OVERLAP, WITH THE UPSTREAM STRIP OVERLAPPING THE DOWNSTREAM STRIP.
- GRAVEL BEDDING SHALL BE ODOT NO. 67.5 OR 57.5 UNLESS SHOWN DIFFERENTLY ON THE DRAWINGS.
- RIPRAP MAY BE PLACED BY EQUIPMENT BUT SHALL BE PLACED IN A MANNER TO PREVENT SLIPPAGE OR DAMAGE TO THE GEOTEXTILE.
- RIPRAP SHALL BE PLACED BY A METHOD THAT DOES NOT CAUSE SEGREGATION OF SIZES. EXTENSIVE PUSHING WITH A DOZER CAUSES SEGREGATION AND SHALL BE AVOIDED BY DELIVERING RIPRAP NEAR ITS FINAL LOCATION WITHIN THE CHANNEL.
- CONSTRUCTION SHALL BE SEQUENCED SO THAT OUTLET PROTECTION IS PLACED AND FUNCTIONAL WHEN THE STORM DRAIN, CULVERT, OR OPEN CHANNEL ABOVE IT BECOMES OPERATIONAL.
- ALL DISTURBED AREAS WILL BE VEGETATED AS SOON AS PRACTICAL.

ROCK OUTLET PROTECTION DETAIL
N.T.S.



NOTES

- STONE SIZE - ODOT #2 (1.5-2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE RESIDENCE LOTS).
- THICKNESS - THE STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES FOR HEAVY DUTY USE.
- WIDTH - THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- GEOTEXTILE - A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:
- CULVERT - A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
- WATER BAR - A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR THE WASHING AND REWORKING OF EXISTING STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY. THE USE OF WATER TRUCKS TO REMOVE MATERIALS DROPPED, WASHED, OR TRACKED ONTO ROADWAYS WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES. TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPPING OR SWEEPING.
- CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SITE SHALL BE RESTRICTED FROM MUDDY AREAS.
- REMOVAL - THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.

MINIMUM TENSILE STRENGTH.....	200 LBS
MINIMUM PUNCTURE STRENGTH.....	80 LBS
MINIMUM TEAR STRENGTH.....	60 LBS
MINIMUM BURST STRENGTH.....	300 PSI
MINIMUM ELONGATION.....	20%
EQUIVALENT OPENING SIZE.....	EQS< 0.6MM
PERMITTIVITY.....	1X10 ⁻⁵ CM/SEC

CONSTRUCTION ENTRANCE DETAIL
N.T.S.

REVISIONS:

09/12/2026

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**WARREN COUNTY
CAREER CENTER
MEDICAL ACADEMY**
3522 OH-46, Lebanon, OH 45036



PROJECT NO:
PROJECT #263306.00

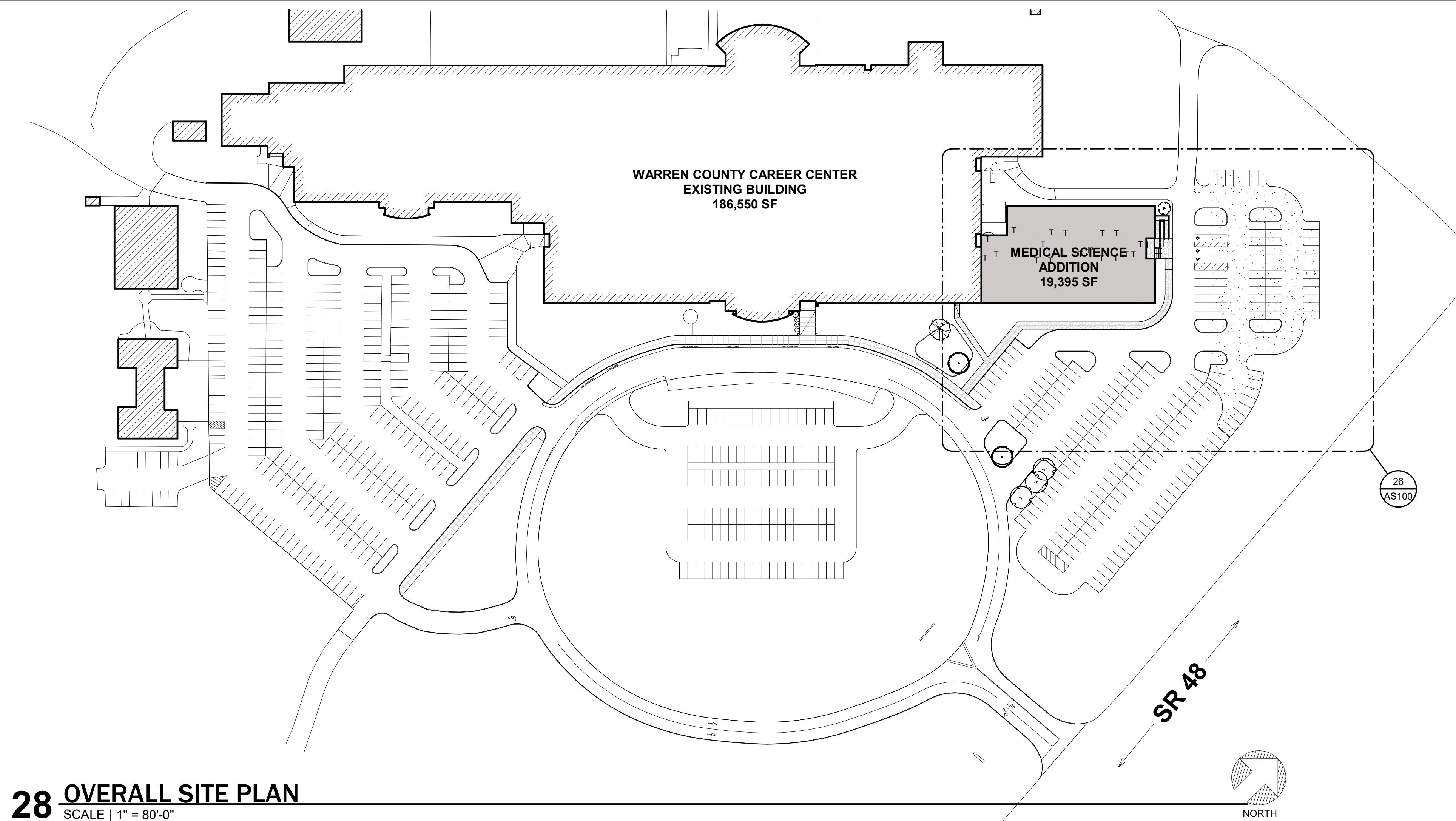
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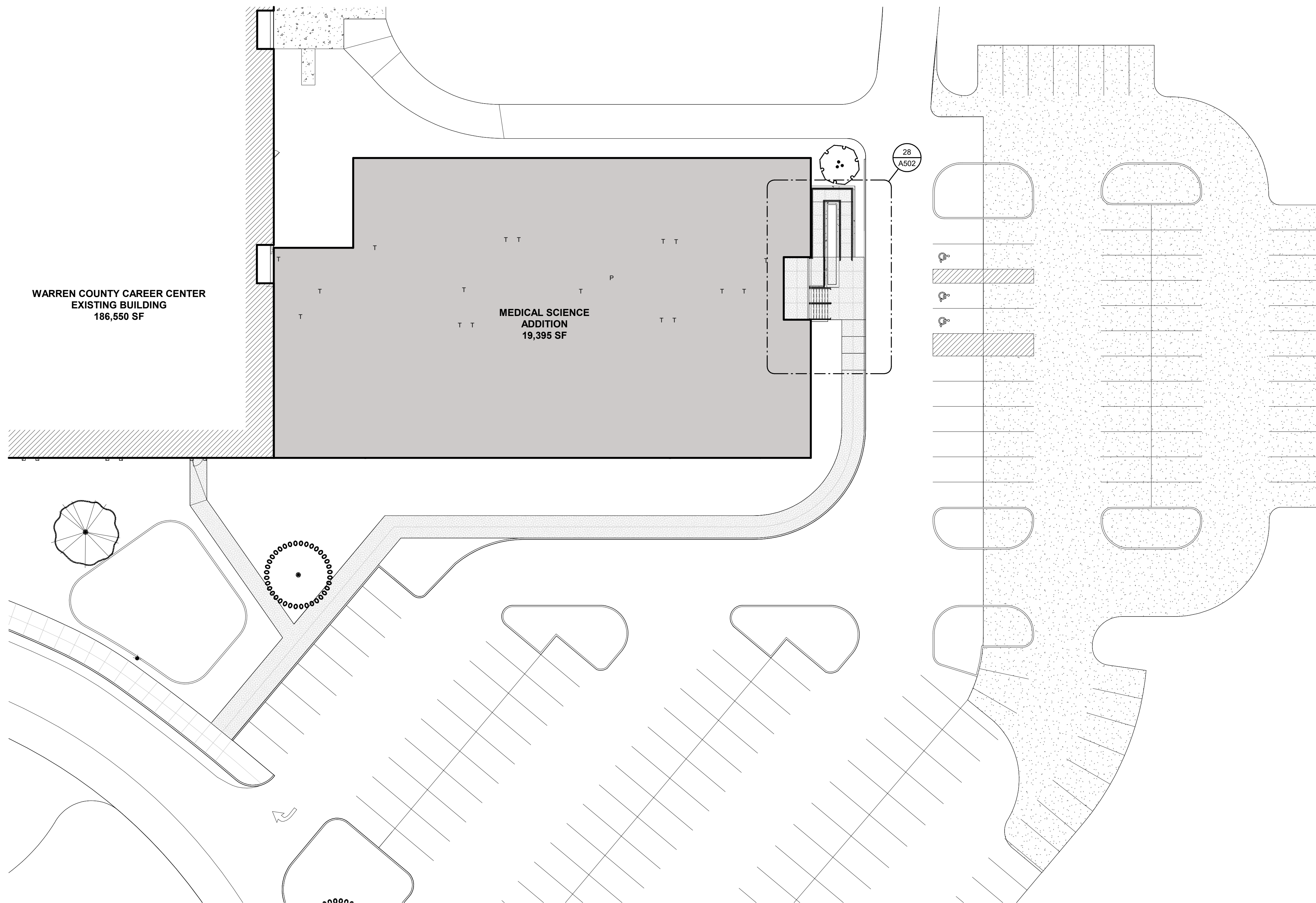
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**EROSION CONTROL
DETAILS
C161**



28 OVERALL SITE PLAN
SCALE | 1" = 80'-0"



26 ENLARGED SITE PLAN
SCALE | 1" = 20'-0"

9/16/2025 10:20:53 AM



Mark C. Wiseman, License #13215
Expiration Date 12/31/2027

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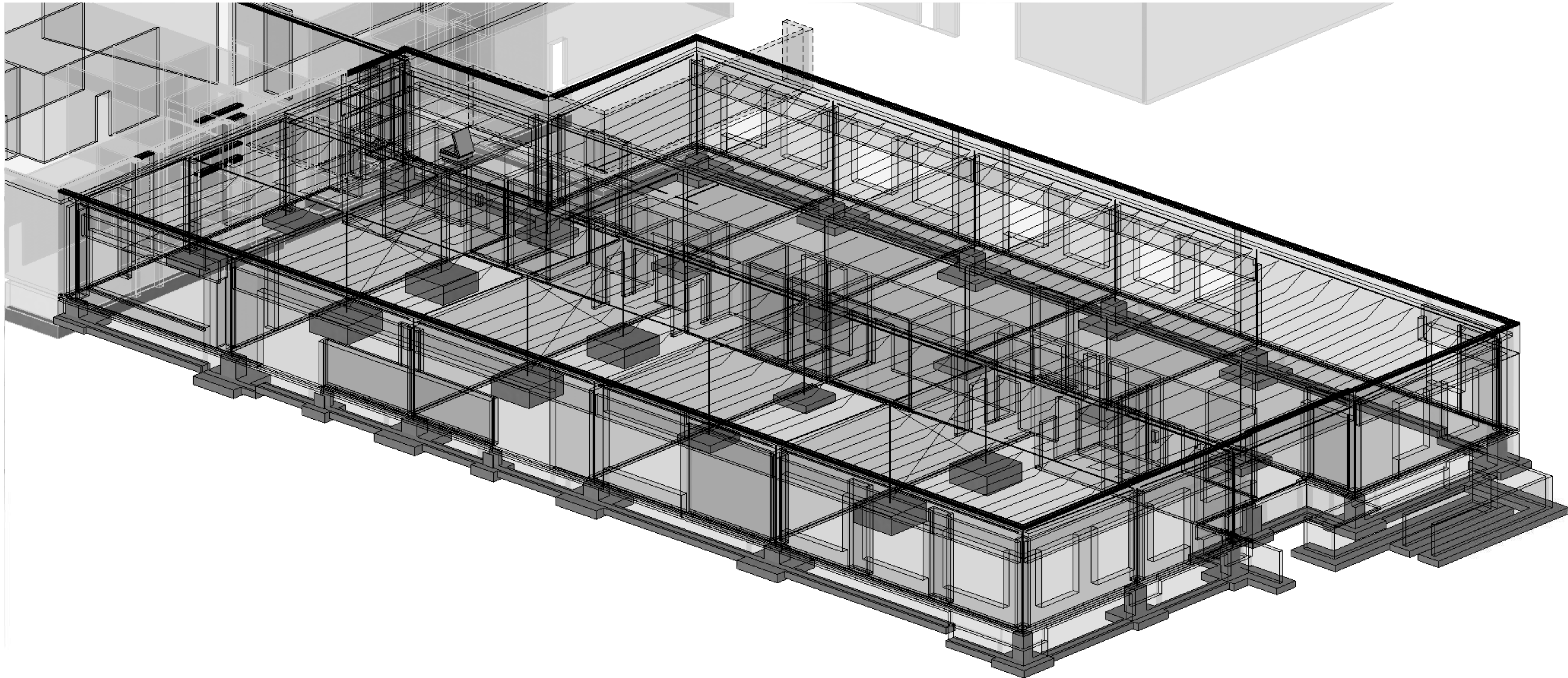
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Author
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ARCHITECTURAL SITE
PLAN

AS100



WARREN COUNTY CAREER CENTER - MEDICAL ACADEMY

ABBREVIATIONS

#	NUMBER	DA	DRILLED ANCHOR	GA	GAGE	N	NORTH	S	SOUTH
#	POUND (S)	DBL	DOUBLE	GALV	GALVANIZED	N/A	NOT APPLICABLE	SC	SLIP-CRITICAL
#/FT	POUNDS PER LINEAL FOOT	DBLS	DOUBLE TIES	GC	GENERAL CONTRACTOR	NF	NEAR FACE	SCHED	SCHEDULE
CL	CENTERLINE	DE	DISCONTINUOUS END	GEN	GENERAL	NIC	NOT IN CONTRACT	SECT	SECTION
PL	PLATE	DET	DETAIL	GR	GRADE	NO. #	NUMBER	SHT	SHEET
Ø	DIAMETER	DIA	DIAMETER	GRND	GROUND	NOM	NOMINAL	SIM	SIMILAR
		DIAG	DIAGONAL	GRGT	GRATING	NS	NEAR SIDE	SL	SLOPE (D)
AB	ANCHOR BOLT	DIM	DIMENSION	H, HORIZ	HORIZONTAL	NSH	NORMAL SLOTTED HOLES	SP	SPACE (S), (ED)
ADDL	ADDITIONAL	DL	DEAD LOAD	HD	HEADED	NTS	NOT TO SCALE	SPEC	SPECIFICATION (S)
ADJ	ADJACENT	DR	DISTRIBUTION RIB	HK	HOOK	o/o	OUT-TO-OUT	SPL	SPLICE
AFF	ABOVE FINISHED FLOOR	DWG	DRAWING	HS	HIGH-STRENGTH	OC	ON CENTER (S)	SQ	SQUARE
ANC	ANCHOR	DWL	DOWEL	HVAC	HEATING VENTILATING AIR CONDITIONING	OD	OUTSIDE DIAMETER	SS	STAINLESS STEEL
APPROX	APPROXIMATELY			ID	INSIDE DIAMETER (DIMENSION)	OF	OUTSIDE FACE	SSL	SHORT SLOTTED HOLES
AR	ANCHOR ROD	E	EAST	IF	INSIDE FACE	OPNG	OPENING	SSR	SHEAR STUD RAILS
ARCH	ARCHITECT (URAL)	E, EXTG	EXISTING	IN	INSIDE FACE	OPT	OPTIONAL	STA	STATION
		EA	EACH	INT	INTERIOR, INTERMEDIATE	ORIG	ORIGINAL	STD	STANDARD
B, PL	BASE PLATE	EE	EACH END	JST	JOIST	OSB	ORIENTED STRAND BOARD	STIFF	STIFFENER
B, BOT	BOTTOM	EF	EACH FACE	JT	JOINT	OSL	OUT STANDING LEG	STL	STEEL
BLDG	BUILDING	EJ	EXPANSION JOINT	KP	KIP (1000 POUNDS)	OVHD	OVERHEAD	STRUCT	STRUCTURE (AL)
BLK	BLOCK	EL	ELEVATION	KSF	KIPS PER SQUARE FOOT	OVS	OVERSIZED ROUND HOLES	SVC	SERVICE
BLKG	BLOCKING	ELEV	ELEVATOR	LAT	LATERAL	P/C	PRECAST CONCRETE	SW	SHORT WAY
BLM	BEAM	EMBED	EMBEDDED (MENT)	LBS, #	POUNDS	PMB	POWDER ACTUATED FASTENER (S)	SYM	SYMMETRICAL
BRG	BEARING	ENGR	ENGINEER	LG	LONG	PEMB	PRE-ENGINEERED METAL BUILDING		
BRK	BRICK	ES	EACH SIDE	LL	LIVE LOAD	PLF	POUND PER LINEAR FOOT	T	TOP
BS	BOTH SIDES	EW	EACH WAY	LLH	LONG LEG HORIZONTAL	PLWD	PLYWOOD	T&B	TOP AND BOTTOM
BSMT	BASEMENT	EXP	EXPANSION	LLV	LONG LEG VERTICAL	PML	PANEL	T/	TOP OF
BTWN	BETWEEN	EXT	EXTERIOR	LNL	LONG NEST	PREL	PRELIMINARY	TEMP	TEMPERATURE, TEMPORARY
		FAB	FROM ADJACENT BEAM	LNL	LONG NEST	PROJ	PROJECT	THD	THREADED
C/C	CENTER-TO-CENTER	FABR	FABRICATE (OR)	LOC	LOCATION	PSF	POUNDS PER SQUARE FOOT	THK	THICK (NESS)
CB	CONCRETE BEAM	FD	FLOOR DRAIN	LSH	LONG SIDE HORIZONTAL	PSI	POUNDS PER SQUARE INCH	TOS	TOP OF STEEL
CE	CONTINUOUS END	FDE	FINISHED FLOOR ELEVATION	LSL	LONG SLOTTED HOLES	PSL	PARALLEL STRAND LUMBER	TOSL	TOP OF SLAB
CFWF	COLD FORMED METAL FRAMING	FNI	FINISHED	LSV	LONG SIDE VERTICAL	QTY	QUANTITY	TOT	TOTAL
CJ	CONTROL JOINT	FL	FULL LENGTH	LWL	LONG WAY	REF	REFERENCE	TYP	TYPICAL
CLR	CLEAR	FLR	FLOOR	MAS	MASONRY	REINF	REINFORCE (ING), (ED)	UN	UNLESS NOTED
CMU	CONCRETE MASONRY UNIT	FND	FOUNDATION	MATL	MATERIAL	REQ	REQUIRED	UNO	UNLESS NOTED OTHERWISE
COL	COLUMN	FOM	FACE OF MASONRY	MAX	MAXIMUM	REQD	REQUIRED		
CONC	CONCRETE	FOS	FACE OF SHEATHING	MFR	MANUFACTURE (R)	REV	REVISION (ION), (ED)	V	VERTICAL
CONN	CONNECT (ION)	FV	FACE OF VENEER	MHZ	MECHANICAL	RF	ROOM	VERT	VERTICAL
CONST	CONTRACT (ION)	PS	FACE OF WALL	MEZZ	MEZZANINE	RTU	ROOF TOP UNIT	VIF	VERIFY IN FIELD
CONT	CONTINUOUS (ATION)	FT	FEET, FOOT	MISC	MISCELLANEOUS			W	WEST
CONTR	CONTRACTOR	FTG	FOOTING	ND	MASONRY OPENING			W/	WITH
CTR	CENTER			HPH	HILES PER HOUR			W/C	WATER/CEMENT RATIO
CW	CURTAIN WALL			MTL	METAL			W/O	WITHOUT
CY	CUBIC YARDS							WD	WOOD
								WL	WIND LOAD
								WP	WORK (ING) POINT
								WT	WEIGHT
								WWR	WELDED WIRE REINFORCING
								XX	EXTRA STRONG
								XXS	DOUBLE EXTRA STRONG

SMBH SHEET LIST	
NUMBER	NAME
S001	STRUCTURAL COVER SHEET
S002	STRUCTURAL GENERAL NOTES
S003	STRUCTURAL SPECIAL INSPECTIONS
S004	STRUCTURAL SCHEDULES, TYPICAL DETAILS & DIAGRAMS
S101	FOUNDATION PLAN
S111	ROOF FRAMING PLAN
S201	BRACED FRAME ELEVATION AND DETAILS
S301	FOUNDATION DETAILS AND SECTIONS
S302	FOUNDATION DETAILS AND SECTIONS
S311	ROOF FRAMING DETAILS AND SECTIONS

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GREGORY WILSON BARSCHE

694430

REGISTERED PROFESSIONAL ENGINEER

09/15/2026

REVISIONS:

Number	Description	Date

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Bld / Permit Set	09/15/2025

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PROJECT NO: #263306.00

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DRAWN BY: CLC

DATE: 09/15/2025

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STRUCTURAL COVER SHEET

S001

010000 - GENERAL STRUCTURAL NOTES

1. THE GENERAL STRUCTURAL NOTES ARE INTENDED TO AUGMENT THE DRAWINGS AND SPECIFICATIONS. SHOULD CONFLICTS EXIST BETWEEN THE DRAWINGS, SPECIFICATIONS AND THE GENERAL STRUCTURAL NOTES, THE STRICTEST PROVISION SHALL GOVERN.
2. GOVERNING CODE:
OHIO BUILDING CODE - 2024 EDITION (BASED ON IBC 2021 EDITION)
3. SEE STRUCTURAL PLANS FOR DESIGN SOIL BEARING PRESSURE AND LIVE LOADS. LIVE LOADS REDUCED IN ACCORDANCE WITH THE GOVERNING CODE, IF APPLICABLE.
4. ROOF SNOW LOAD:
GROUND SNOW LOAD (Ps)
SNOW EXPOSURE FACTOR (Ce)
IMPORTANCE FACTOR (Is)
THERMAL FACTOR (Ct)
FLAT ROOF SNOW LOAD (Pf)
UNIFORM ROOF DESIGN SNOW LOAD
SEE 5004 FOR SNOW DRIFT INFORMATION
5. RAIN LOAD:
RAIN LOAD INTENSITY (15-MINUTE INTENSITY)
WIND LOAD:
BASIC WIND SPEED
ALLOWABLE WIND SPEED
RISK CATEGORY
EXPOSURE CATEGORY
INTERNAL PRESSURE COEFFICIENT (G Cp1)
COMPONENTS AND CLADDING - SEE TABLE BELOW
7. SEISMIC LOAD:
RISK CATEGORY
IMPORTANCE FACTOR (Ib)
MAPPED SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Ss)
MAPPED SPECTRAL RESPONSE ACCELERATION AT ONE-SECOND PERIOD (S1)
SITE CLASS
SPECTRAL RESPONSE PARAMETER AT SHORT PERIOD (SDs)
SPECTRAL RESPONSE PARAMETER AT ONE-SECOND PERIOD (SD1)
SEISMIC DESIGN CATEGORY
DESIGN BASE SHEAR LRFD
SEISMIC RESPONSE COEFFICIENT (Cs)
BASIC SEISMIC FORCE RESISTING SYSTEM:
H - STRUCTURAL STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE, EXCLUDING CANTILEVER COLUMN SYSTEMS (H-3, D-2 1/2, C6-3)
DESIGN BY EQUIVALENT LATERAL FORCE PROCEDURE.
8. MECHANICAL FRAMING LOADS, OPENINGS, AND STRUCTURE IN ANY WAY RELATED TO MECHANICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL OBTAIN APPROVAL OF MECHANICAL AND OTHER TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN MECHANICAL REQUIREMENTS TO BE BORNE BY MECHANICAL CONTRACTOR. COORDINATE SIZE AND LOCATION OF ALL OPENINGS WITH THE MECHANICAL DRAWINGS.
9. IF EQUIPMENT SHIPPING OR OPERATING WEIGHT EXCEEDS VALUE SHOWN ON THESE DRAWINGS, DO NOT PLACE EQUIPMENT. NOTIFY STRUCTURAL ENGINEER AND ARCHITECT.
10. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCES AND TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS, OR THE DOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER COMPLETION OF THE PROJECT.
11. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
12. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS RELATING TO EXISTING CONSTRUCTION AND EXISTING SERVICE ON THE SITE.
13. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF COLUMNS, WALLS, OPENINGS ETC. WITH THE ARCHITECTURAL DRAWINGS PRIOR TO PROCEEDING WITH THE WORK. DO NOT SCALE THESE DRAWINGS. USE DIMENSIONS. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN STRUCTURAL DRAWINGS AND DRAWINGS OF ANY OTHER DISCIPLINE.
14. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION DEAD LOAD APPLIED TO THE STRUCTURAL FRAMING.
15. THE ERECTION AND CONSTRUCTION SEQUENCES SHALL BE DEVELOPED BY THE CONTRACTOR TO ACCOUNT FOR THE EFFECTS OF THERMAL MOVEMENTS TO THE STRUCTURE. DETAILED EXPANSION JOINTS ON THESE DRAWINGS ARE DESIGNED FOR MOVEMENT OF A COMPLETED STRUCTURE.
16. DO NOT MODIFY, ALTER OR REPAIR ANY STRUCTURAL MEMBER WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
17. SHOP DRAWINGS SHALL BE REVIEWED AND STAMPED BY CONTRACTOR PRIOR TO SUBMISSION TO STRUCTURAL ENGINEER.
18. DEFERRED SUBMITTALS: THE FOLLOWING COMPONENTS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER HIRED BY THE CONTRACTOR, LICENSED IN THE STATE OF THE PROJECT. DESIGN INFORMATION SHALL BE SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER. SEE CONTRACT DOCUMENTS FOR DESIGN LOADS AND OTHER DESIGN CRITERIA.
A. STEEL CONNECTIONS NOT SPECIFICALLY AND FULLY DETAILED ON THE STRUCTURAL DRAWINGS.
B. COLD FORMED METAL FRAMING - NON-LOAD BEARING CURTAINWALL.
C. STEEL JOIST AND GIRDERS (OR APPROPRIATE REFERENCES TO SJI STANDARDS).
19. SEE SHEET 5003 FOR SPECIAL INSPECTIONS.

COMPONENTS AND CLADDING

WIND SPEED, V=114 MPH EXPOSURE CATEGORY C HEIGHT, H, 14.5 FT (ENCLOSED BUILDING; H < 30 FT) PARAPET HT < 3'-0"				
ROOF				
SURFACE PRESSURE (PSF)				
AREA	10 sf	100 sf	500 sf	
NEGATIVE ZONE 1	-45.1	-35.2	-28.3	
NEGATIVE ZONE 1'	-25.9	-25.9	-17.5	
NEGATIVE ZONE 2	-59.5	-46.8	-37.9	
NEGATIVE ZONE 3	-59.5	-46.8	-37.9	
POSITIVE ZONE 1 & 1'	16.0	16.0	16.0	
POSITIVE ZONE 2 & 3	25.9	22.1	19.4	
OVERHANG ZONE 1 & 1'	-40.8	-38.4	-24.0	
OVERHANG ZONE 2 & 3	-55.2	-38.3	-26.4	
PARAPET				
SURFACE PRESSURE (PSF)				
SOLID PARAPET PRESSURE	10 sf	100 sf	500 sf	
CASE A: ZONE 2:	78.5	61.6	49.8	
ZONE 3:	78.5	61.6	49.8	
CASE B: INTERIOR ZONE:	-46.4	-38.6	-33.1	
CORNER ZONE:	-53.0	-41.3	-33.1	
CASE A = PRESSURE TOWARDS BUILDING (POS) CASE B = PRESSURE AWAY FROM BUILDING (NEG)				
WALLS				
SURFACE PRESSURE (PSF)				
WALL AREA	10 sf	100 sf	500 sf	
NEGATIVE ZONE 4	-28.1	-24.3	-21.6	
NEGATIVE ZONE 5	-34.6	-26.9	-21.6	
POSITIVE ZONES 4 & 5	25.9	22.1	19.4	

NOTES:

1. SEE ASCE7 FOR ZONE DEFINITIONS.
2. ALL WIND PRESSURES ARE ULTIMATE LOADS.

033000 - CAST-IN-PLACE CONCRETE

1. SPECIFICATIONS AND STANDARDS:
CONCRETE WORK, DETAILING, FABRICATION AND PLACING OF BARS AND CONCRETE SHALL BE GOVERNED BY THE APPLICABLE VERSION OF:
A. ACI 301, ACI 315, AND ACI 318.
B. CSI'S RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS.
C. ACI 306 AND ACI 305 FOR COLD AND HOT WEATHER CONCRETING, RESPECTIVELY. THE CONTRACTOR SHALL AT ALL TIMES HAVE A COPY OF THE RELEVANT SPECIFICATIONS QUOTED ABOVE ON THE SITE AND THE SUPERVISORY PERSONNEL SHALL BE THOROUGHLY FAMILIAR WITH THE CONTENTS THEREOF.
2. CONTINGENCIES:
A. LEAN CONCRETE UNDER FOUNDATIONS FOR EARTH FILL DUE TO ACCIDENTAL OVEREXCAVATION OR SOFT SPOTS.
3. CONCRETE REQUIREMENTS AND LOCATION IN JOB:
CLASS FC MAX W/C RATIO SPECIAL REQUIREMENTS
1 FOOTINGS 3000PSI
2 PIERS, WALLS, EQUIPMENT PADS 3000 PSI 0.55 6% +/- 1.5% AIR CONTENT
3 EXTERIOR CONCRETE 4500 PSI 0.45 3% MAX AIR CONTENT
4 INTERIOR SLABS ON-GRADE, 3500 PSI 0.50
5 LEAN CONCRETE 1500 PSI NO TESTS, SOFT SOIL REPLACE
6 FLOWABLE FILL 85 PSI NO TESTS, UTILITY BACKFILL UNDER FOOTINGS
- SUBMIT CONCRETE MIXES FOR APPROVAL IN ACCORDANCE WITH ACI 301 BEFORE PLACING ANY CONCRETE. ALL MIXES SHALL INCLUDE EITHER ASTM C150 PORTLAND CEMENT OR ASTM C595 PORTLAND-LESTONESTONE CEMENT AND ALL AGGREGATE SHALL CONFORM TO ASTM C33. CONCRETE TESTING PER ACI 318 SECTION 26.12
4. REINFORCING REQUIREMENTS:
A. BARS: ASTM A615, GRADE 60.
B. WELDED WIRE REINFORCING: ASTM A1064.
C. SMOOTH BARS: ASTM A36.
D. BARS REQUIRING WELDING: ASTM A706, GRADE 60.
5. POST-INSTALLED WEDGE ANCHORS:
A. THE ENTIRE ANCHOR SHALL BE CARBON STEEL (INTERIOR) OR STAINLESS STEEL/GALVANIZED (EXTERIOR).
B. THE ENTIRE ANCHOR SYSTEM SHALL BE EVALUATED TO COMPLY WITH THE APPLICABLE VERSION OF IBC AND BE CERTIFIED BY AN ICC-ES EVALUATION REPORT. THE ANCHOR SYSTEM SHALL MEET THE REQUIREMENTS OF ACI 355.2, EVALUATED FOR USE IN CRACKED CONCRETE.
C. SUBJECT TO COMPLIANCE REQUIREMENTS, PROVIDE THE PRODUCT INDICATED ON DRAWINGS OR COMPARABLE PRODUCT CAPABLE OF RESISTING LOADS EQUIVALENT TO THE BASIS OF DESIGN PRODUCT WHEN USED WITH THE SAME EMBEDMENT, ORIENTATION, EDGE DISTANCE, AND SPACING. SUBMIT PROPOSED SUBSTITUTION FOR APPROVAL WITH ACCOMPANYING ICC-ES REPORT.
6. POST-INSTALLED SCREW ANCHORS:
A. THE ENTIRE ANCHOR SHALL BE CARBON STEEL WITH ZINC PLATING EQUIVALENT TO DIN EN ISO 4042 (8um MINIMUM). (INTERIOR USE ONLY).
B. THE ENTIRE ANCHOR SYSTEM SHALL BE EVALUATED TO COMPLY WITH THE APPLICABLE VERSION OF IBC AND BE CERTIFIED BY AN ICC-ES EVALUATION REPORT. THE ANCHOR SYSTEM SHALL MEET THE REQUIREMENTS OF ACI 355.2, EVALUATED FOR USE IN CRACKED CONCRETE.
C. PRE-DRILL HOLES WITH STANDARD AISI DRILL BIT PER THE MANUFACTURER'S INSTALLATION GUIDELINES. INSTALL THE ANCHOR WITH AN IMPACT WRENCH.
D. PROVIDE ANCHORS WITH A DIAMETER AND LENGTH MARKING ON THE HEAD AS INDICATED ON THE DRAWINGS.
E. SUBJECT TO COMPLIANCE REQUIREMENTS, PROVIDE THE PRODUCT INDICATED ON DRAWINGS OR COMPARABLE PRODUCT CAPABLE OF RESISTING LOADS EQUIVALENT TO THE BASIS OF DESIGN PRODUCT WHEN USED WITH THE SAME EMBEDMENT, ORIENTATION, EDGE DISTANCE, AND SPACING. SUBMIT PROPOSED SUBSTITUTION FOR APPROVAL WITH ACCOMPANYING ICC-ES REPORT.
7. POST-INSTALLED ADHESIVE ANCHORS:
A. THE ENTIRE ANCHOR SHALL BE ASTM F1554 GR 36; ASTM 307, ASTM A193 B7. ANCHORS SHALL BE HOT DIP GALVANIZED IF EXPOSED TO EXTERIOR CONDITIONS.
B. THE ENTIRE ANCHOR SYSTEM SHALL BE EVALUATED TO COMPLY WITH THE APPLICABLE VERSION OF IBC AND BE CERTIFIED BY AN ICC-ES EVALUATION REPORT. THE ANCHOR SYSTEM SHALL MEET THE REQUIREMENTS OF ACI 355.4, EVALUATED FOR USE IN CRACKED CONCRETE.
C. THE FOLLOWING PARAMETERS HAVE BEEN USED IN THE DESIGN:
• MINIMUM AGE OF CONCRETE: 21 DAYS
• CONCRETE TEMPERATURE RANGE: VERIFY ALLOWABLE MAX TEMPERATURE WITH MANUFACTURER.
• MOISTURE CONDITION AT THE TIME OF INSTALLATION: DRY (IF WATER SATURATED, PRODUCT DATA SHALL BE PROVIDED THAT INDICATES ANCHOR DOES NOT HAVE REDUCED CAPACITY COMPARED TO A DRY HOLE).
• TYPE OF LIGHTWEIGHT CONCRETE (IF APPLICABLE): LIGHTWEIGHT AGGREGATE OR SAND.
• HOLE DRILLING AND PREP: ROTARY HAMMER DRILL WITH HOLE CLEANING PER MANUFACTURER INSTRUCTIONS.
D. INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPLICABLE CERTIFICATION PROGRAM. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH ACI/CRS ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM, OR EQUIVALENT.
E. SUBJECT TO COMPLIANCE REQUIREMENTS, PROVIDE THE PRODUCT INDICATED ON DRAWINGS OR COMPARABLE PRODUCT CAPABLE OF RESISTING LOADS EQUIVALENT TO THE BASIS OF DESIGN PRODUCT WHEN USED WITH THE SAME EMBEDMENT, ORIENTATION, EDGE DISTANCE, AND SPACING. SUBMIT PROPOSED SUBSTITUTION FOR APPROVAL WITH ACCOMPANYING ICC-ES REPORT.
8. POST-INSTALLED SLEEVE ANCHOR:
A. THE ENTIRE ANCHOR SHALL BE CARBON STEEL (INTERIOR) OR STAINLESS STEEL/GALVANIZED (EXTERIOR).
B. SUBJECT TO COMPLIANCE REQUIREMENTS, PROVIDE THE PRODUCT INDICATED ON DRAWINGS OR COMPARABLE PRODUCT CAPABLE OF RESISTING LOADS EQUIVALENT TO THE BASIS OF DESIGN PRODUCT WHEN USED WITH THE SAME EMBEDMENT, ORIENTATION, EDGE DISTANCE, AND SPACING. SUBMIT PROPOSED SUBSTITUTION FOR APPROVAL WITH ACCOMPANYING ICC-ES REPORT.
9. FOOTINGS:
A. DOWELS IN FOOTINGS TO MATCH VERTICAL REINFORCING IN CONCRETE WALLS, COLUMNS AND PIERS. DOWELS IN FOOTINGS FOR MASONRY WALLS ARE NOT REQUIRED UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DETAILS.
B. BEND ALL BARS 24 DIAMETERS AROUND CORNERS OF FOOTINGS. BARS AT THE INSIDE FACE OF THE CORNER SHALL BE CONTINUED ACROSS TO THE OUTSIDE AND THEN BENT.
10. SLABS:
A. PROVIDE (2) #4x3'-0" DIAGONAL REINF AT 2' SPACING IN TOP THIRD OF SLAB (1" MIN CLR) AT ALL RE-ENTRANT CORNERS IN SLABS ON GRADE AND SLABS ON METAL DECK.
B. PROVIDE (2) #4x3'-0" REINF AT 2' SPACING IN TOP THIRD OF SLAB (1" MIN CLR) PERPENDICULAR TO JOINTS THAT TERMINATE AT A PARTICULAR JOINT IN SLABS ON GRADE.
C. PROVIDE (2) #4 TOP BARS FOR THE SPACERS IN BEAMS WHERE NO OTHER TOP STEEL IS REQUIRED.
11. WALLS AND PIERS:
A. PROVIDE (2) #5 BARS CONTINUOUS ON EACH SIDE OF WALL OPENINGS, EXTENDING 2 FEET BEYOND EACH CORNER.
B. CLASS B TENSION LAP SPLICES FOR HORIZONTAL AND VERTICAL WALL REINFORCING UNLESS NOTED.
C. STAGGER SPLICES IN WALLS SO THAT NO MORE THAN 1/3 OF THE REINFORCING IS SPLICED IN ANY GIVEN CROSS-SECTION. STAGGER SPLICES 40 DIAMETERS.
D. WHERE ANCHOR RODS ARE PLACED IN THE TOP OF PEDESTALS, PLACE (3) SETS OF COLUMN TIES EQUALLY SPACED WITHIN THE TOP 5" OF THE PEDESTAL.
E. KEYED CONTRACTION JOINTS IN WALLS: MAXIMUM SPACING OF 30'-0" c/c.
F. PROVIDE CORNER BARS AT WALL CORNERS TO MATCH HORIZONTAL WALL REINFORCING. EXTEND INSIDE FACE BARS TO OUTSIDE FACE AND HOOK.
12. SPLICES:
A. COMPRESSION SPLICES: LAP 30 DIAMETERS.
B. TENSION SPLICES, WHEN PERMITTED - LAP IN ACCORDANCE WITH THE ACI CODE AND THE TABLE SHOWN BELOW.
- LAP SPLICE SCHEDULE:
BAR SIZE LAP CLASS TOP BAR (FC<4000 PSI) TOP BAR (FC<4000 PSI) OTHER BAR (FC<4000 PSI) OTHER BAR (FC<4000 PSI)
#3 19" 22" 22" 17" 15"
#4 28" 28" 24" 19" 19"
#5 37" 32" 29" 25" 25"
#6 47" 40" 36" 31" 31"
#7 56" 48" 43" 37" 37"
#8 62" 54" 48" 42" 42"
#9 70" 62" 54" 47" 47"
#10 81" 70" 62" 54" 54"
#11 91" 81" 70" 62" 60"
#12 101" 91" 81" 70" 78"
#13 111" 102" 91" 81" 87"
#14 121" 113" 102" 91" 97"
- NOTES:
a. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE BELOW THEM.
b. ALL LAP SPLICES SHALL BE CLASS B UNLESS OTHERWISE NOTED.
c. VALUES ARE NORMAL WEIGHT CONCRETE NON-EPoxy COATED BARS.
d. LAP WELDED WIRE REINFORCING 1 SPACE = 2' AT ALL EDGES AND ENDS OF SHEETS.
13. OPENINGS:
A. OPENINGS SHOWN ARE FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL COORDINATE SIZES AND LOCATIONS WITH ARCHITECTURAL, MECHANICAL AND OTHER REQUIREMENTS BEFORE PROCEEDING WITH THE WORK.
B. IF ANY OPENING NOT SHOWN ON THE PLAN IS REQUIRED, APPROVAL MUST BE SECURED FROM THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE WORK.
14. COVER:
UNLESS NOTED OTHERWISE ON PLANS, THE CONCRETE COVER TO REINFORCING STEEL SHALL BE AS FOLLOWS:
MEMBER COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO SOIL = 3"
CONCRETE EXPOSED TO SOIL AND WEATHER:
#6 THROUGH #11 BARS = 2"
#5 BARS AND SMALLER = 1 1/2"
CONCRETE NOT EXPOSED TO SOIL AND WEATHER:
SLABS AND WALLS = 3/4"
BEAMS AND COLUMNS = 1 1/2"
15. MISCELLANEOUS:
A. CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE STRUCTURAL ENGINEER.
B. PROVIDE EQUIPMENT PADS, INSETA BASES AND CURBS AS NOTED ELSEWHERE IN THE CONTRACT DOCUMENTS. UNLESS NOTED, DOWEL PADS WITH HOOKED #4x0'-6" PROJECTING 3" FROM CONCRETE BELOW AT 18" c/c EACH WAY. REINFORCE PADS WITH #4 @ 18" c/c EACH WAY AT MID-DEPTH (FOR PADS <8" THICK) UNLESS REQUIRED OTHERWISE BY EQUIPMENT SUPPLIER.
C. SUBMIT STEEL REINFORCING SHOP DRAWINGS THAT DETAIL FABRICATION, BENDING AND PLACEMENT TO STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION.

051200 - STRUCTURAL STEEL FRAMING

1. SPECIFICATIONS AND STANDARDS:
UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION AND ERECTION SHALL BE GOVERNED BY:
A. ANSI/AISC 360 - SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS. LRFD
B. AISC 303 - CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
C. AWS STANDARD WELDING SYMBOLS.
D. AWS D1.1 STRUCTURAL WELDING CODE - STEEL. WELDING SHALL BE PERFORMED ONLY BY OPERATORS QUALIFIED, BY THE AWS STANDARD QUALIFICATION PROCEDURE, TO PERFORM THE PARTICULAR TYPE OF WORK REQUIRED.
E. ICCS - SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS.
2. MATERIALS:
A. "W" SHAPES: ASTM A992 Fy = 50 KSI, ASTM A572 Fy = 50 KSI.
B. CHANNELS: ASTM A992 Fy = 50 KSI.
C. ANGLES, PLATES AND BARS: ASTM A572 Fy = 50 KSI.
D. RECTANGULAR HOLLOW STRUCTURAL SECTIONS: ASTM A500 GR C, Fy = 50 KSI, ASTM A1085, Fy = 50 KSI.
E. WELDING ELECTRODES: AWS A5.1 OR A5.5 SERIES E70.
F. BOLTS: ASTM F3125 GRADE A325, TYPE 1, HEAVY-HEX STEEL STRUCTURAL BOLTS.
G. ANCHOR RODS: ASTM F1554 GRADE 36.
H. NUTS AND WASHERS: ASTM A663, GRADE DH, HEAVY-HEX CARBON-STEEL NUTS; AND ASTM F436, TYPE 1, HARDENED CARBON-STEEL WASHERS.
3. PAINT AND PROTECTION - NONE EXCEPT AS NOTED BELOW:
I. INTERIOR MEMBERS EXPOSED TO VIEW IN THE FINISHED STRUCTURE - PRIME COAT, TOUCH UP AFTER ERECTION.
• MEMBERS EXPOSED TO WEATHER IN FINISHED STRUCTURE. SHELF ANGLES AND LINTELS IN EXTERIOR WALLS - GALVANIZED PER ASTM A123 AFTER FABRICATION.
J. SHRINKAGE-RESISTANT GROUT: ASTM C1107, NON-METALLIC AGGREGATE, NON-CORROSIVE, NON-STAINING. F'c = 5,000 PSI MIN.
3. CONNECTION REQUIREMENTS:
A. DESIGN CONNECTIONS FOR VERTICAL REACTIONS SHOWN ON DRAWINGS OR FOR FULL CAPACITY OF MEMBER WHERE NO REACTION IS SHOWN.
B. DESIGN MOMENT BEAM CONNECTIONS FOR VALUES SHOWN OR FOR FULL MOMENT CAPACITY OF MEMBER.
C. CONNECTIONS SHOWN AND DETAILED ON THE DRAWINGS MAY BE REDESIGNED BY THE STRUCTURAL STEEL CONTRACTOR FOR EQUAL FORCES PROVIDED THE SAME ARRANGEMENT OF MEMBERS IS USED AND THE OVERALL SIZE OF THE CONNECTION DOES NOT EXCEED THAT OF THE CONNECTION DETAILED.
D. OBTAIN APPROVAL FROM STRUCTURAL ENGINEER FOR TYPES OF CONNECTIONS BEFORE FABRICATION.
E. ALL BOLTED CONNECTIONS TO BE SHEAR-BEARING TYPE WITH BOLTS IN THE SNUG TIGHT CONDITION UNLESS NOTED OTHERWISE.
4. MISCELLANEOUS REQUIREMENTS:
A. ROUND PENETRATIONS ARE PERMITTED IN THE WEB OF WIDE-FLANGE MEMBERS THAT MEET ALL OF THE FOLLOWING CRITERIA. CONTACT SMFH FOR PENETRATIONS THAT DO NOT MEET THESE CRITERIA.
• OPENING DIAMETER IS LESS THAN OR EQUAL TO 0.15 TIMES THE DEPTH OF THE BEAM.
• EDGE OF OPENING IS A MINIMUM OF 0.15 TIMES THE DEPTH OF THE BEAM FROM THE TOP AND BOTTOM OF THE BEAM.
• OPENINGS ARE NOT PERMITTED WITHIN 1.0 TIMES THE DEPTH OF THE BEAM AWAY FROM THE ENDS.
• OPENINGS ARE NOT PERMITTED WITHIN 0.5 TIMES THE DEPTH OF THE BEAM AWAY FROM AN INFILL BEAM CONNECTION.
• EDGES OF ADJACENT OPENINGS ARE AT LEAST 2x THE LARGEST OPENING DIAMETER APART.
B. STEEL FRAMING INTENDED TO SUPPORT EQUIPMENT OR MECHANICAL/ELECTRICAL/PLUMBING OPENINGS IS SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL COORDINATE SIZES AND LOCATIONS WITH MECHANICAL AND OTHER REQUIREMENTS BEFORE PROCEEDING WITH THE WORK. CONTRACTOR SHALL COORDINATE SIZES AND LOCATIONS OF STEEL ANGLE FRAMES FOR OPENINGS THAT ARE SHOWN ON THE MECHANICAL AND ARCHITECTURAL DRAWINGS.
C. STEEL BELOW GRADE TO BE PROTECTED BY A MINIMUM OF 3" OF CONCRETE OR 4" OF MASONRY.
D. DO NOT PAINT THE BACK FACE OF EMBED PLATES THAT ARE EMBEDDED IN CONCRETE.
E. PROVIDE ANGLE SUPPORTS FOR METAL DECK RIBS AT COLUMNS WHEN THE COLUMN SIZE PREVENTS THE RIBS FROM CONTINUING TO THE BEAMS THAT ARE SUPPORTING THE DECK AT COLUMN LINES.
F. UNLESS NOTED OTHERWISE, FIREPROOFING IS NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE-RATING REQUIREMENTS, METHODS AND MATERIALS.
G. SUBMIT SHOP DRAWINGS TO STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION.

052100 - STEEL JOIST FRAMING

1. DESIGN, MANUFACTURING, AND ERECTION: ACCORDING TO THE STANDARD SPECIFICATIONS, LOAD TABLES & WEIGHT TABLES FOR STEEL JOISTS & JOIST GIRDERS ADOPTED BY THE STEEL JOIST INSTITUTE.
2. PAINT ALL JOISTS WITH MANUFACTURERS STANDARD SHOP PRIMER UNLESS OTHERWISE SPECIFIED BY THE ARCHITECT.
3. PROVIDE ADDITIONAL WEB MEMBERS AS REQUIRED AT CONCENTRATED LOADS THAT DO NOT OCCUR AT PANEL POINTS. SEE TYPICAL DETAIL.
4. BRIDGING:
A. BRIDGING QUANTITY AND SPACING AS REQUIRED BY SJI SPECIFICATION AND PER ERECTION DRAWINGS OF JOIST SUPPLIER.
B. ANCHOR ALL BRIDGING TO INTERSECTING WALLS AND BEAMS UNLESS OTHERWISE SHOWN.
C. HORIZONTAL TOP AND BOTTOM BRIDGING MAY BE USED INSTEAD OF DIAGONAL BRIDGING ON LH, DLH AND SLH JOISTS WHERE REQUIRED FOR PASSAGE OF MECHANICAL DUCTS. NO MORE THAN TWO ADJACENT SPACES MAY HAVE HORIZONTAL BRIDGING.
5. CONNECTIONS TO SUPPORTING STEEL:
A. WELDING:
• 2 1/2" OF 1/8" FILLET EACH SIDE FOR K AND KCS JOISTS.
B. BOLTING:
• (2) 1/2" DIAMETER A307 FOR K AND KCS.
C. BOLT JOISTS AT OR NEAREST TO COLUMNS, PER SJI SPECIFICATIONS.
D. EXTEND BOTTOM CHORD OF JOISTS IN LINE WITH COLUMNS TO STABILIZER PLATES ON COLUMNS OR BEAMS.
6. MINIMUM BEARING REQUIREMENTS, UNLESS NOTED OTHERWISE:
A. K SERIES: 2 1/2" ON STRUCTURAL STEEL.
7. PROVIDE MATCHING HEIGHT SEATS ON JOISTS THAT HAVE COMMON BEARING. SHOE HEIGHTS TO MATCH SJI STANDARDS UNLESS NOTED OTHERWISE.
8. ADJACENT JOISTS OF THE SAME DEPTH ARE TO HAVE WEB MEMBERS IN LINE TO PERMIT PASSAGE OF MECHANICAL DUCTS.
9. JOIST SUPPLIER SHALL VERIFY THAT JOISTS AND BRIDGING ARE CAPABLE OF THE UNIFORM AND POINT LOADS SPECIFIED.
10. JOIST SUPPLIER SHALL SUBMIT SHOP DRAWINGS TO STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION.
11. DEFLECTION CRITERIA FOR JOIST / JOIST GIRDER DESIGN (UNLESS NOTED OTHERWISE):
• ROOF TOTAL LOAD: L/240
• ROOF LIVE LOAD: L/360
12. JOIST SHOES AT ROOF DIAPHRAGMS SHALL BE CAPABLE OF TRANSMITTING THE BOUNDARY SHEAR (ROLL-OVER) TO THE SUPPORTING STRUCTURE. SEE ROOF PLAN FOR LOADS.

053100 - STEEL DECKING

1. SPECIFICATIONS AND STANDARDS:
A. DESIGN FABRICATION AND ERECTION OF STEEL DECK SHALL BE GOVERNED BY THE CURRENT EDITION OF THE AMERICAN IRON AND STEEL INSTITUTE. SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.
B. PROPERTIES OF THE STRUCTURAL STEEL DECK SHALL BE COMPUTED IN ACCORDANCE WITH THE REFERENCE STANDARD. THE PROPERTIES SHALL BE PUBLISHED IN THE MANUFACTURER'S CATALOG.
C. AWS STANDARD WELDING SYMBOLS.
D. AWS D1.3 SPECIFICATIONS FOR WELDING SHEET STEEL IN STRUCTURES.
E. WELDING SHALL BE PERFORMED ONLY BY OPERATORS QUALIFIED, BY THE AWS STANDARD QUALIFICATION PROCEDURE, TO PERFORM THE PARTICULAR TYPE OF WORK REQUIRED.
2. PRODUCTS:
A. WIDE RIB ROOF DECK:
• GALVANIZED AND PRIME-PAINTED DECK: ASTM A653, STRUCTURAL STEEL (SS), GRADE 50 MIN. G60 ZINC COATING.
3. CONNECTIONS:
A. ROOF DECK:
• ANCHOR STEEL DECK TO STEEL SUPPORTING MEMBERS WITH 5/8" DIAMETER PUDDLE WELDS AT A MAXIMUM AVERAGE SPACING OF 12 INCHES CENTER TO CENTER (36/4 PATTERN) UNLESS SHOWN OTHERWISE.
• FOR DECK SPANS GREATER THAN FIVE FEET, SIDE LAP FASTENERS SHALL BE SPACED AT INTERVALS NOT EXCEEDING 36 INCHES, UNLESS NOTED. USING #10 SCREWS, 5/8" DIAMETER PUDDLE WELDS, OR 1 1/2" LONG FILLET WELDS. MINIMUM (1) SIDELAP CONNECTION PER SPAN.
• MECHANICAL FASTENERS MAY BE USED IN LIEU OF WELDING TO FASTEN DECK. SUBMIT SUBSTITUTION REQUEST WITH PRODUCT DATA, ATTACHMENT PATTERN AND PERFORMANCE DATA INDICATING DIAPHRAGM CAPACITY MEETS OR EXCEEDS THAT OF THE SPECIFIED WELD PATTERN.
B. WELDING ELECTRODES: AWS A5.1, A5.5 OR A5.18 SERIES E60.
C. WELDED WASHERS SHALL BE USED ON ALL DECK UNITS THINNER THAN 22 GAGE.
4. ERECTION AND FABRICATION:
A. MINIMUM BEARING: 2 INCHES UNLESS OTHERWISE SHOWN.
B. ROOF DECK MINIMUM LAP LENGTH: 4 INCHES UNLESS NOTED OTHERWISE.
C. FABRICATE DECK UNITS IN LENGTHS TO SPAN THREE OR MORE SUPPORT SPACINGS.
D. DO NOT SUSPEND POINT LOADS FROM DECK INCLUDING HANGERS FOR: CEILINGS, PIPES, DUCTS, EQUIPMENT, ETC. CONTRACTOR INSTALLING SUCH POINT LOADS SHALL PROVIDE SUB-FRAMING TO TRANSFER LOAD TO STRUCTURE SUPPORTING DECK.
5. CHECK SUPPLIER TO PROVIDE DECK CLOSURE WHERE REQUIRED FOR CONCRETE PLACEMENT.
5. OPENINGS IN STEEL DECK:
A. OPENINGS CUT IN THE STEEL DECK SHALL BE REINFORCED OR SHALL BE SUPPORTED ON STEEL ANGLE FRAMES. COORDINATE SIZES AND LOCATIONS WITH THE MECHANICAL AND ARCHITECTURAL DRAWINGS.
B. OPENINGS IN STEEL DECK EQUAL TO OR LESS THAN 12"x12" SHALL BE REINFORCED WITH A 24"x24" - 16 GAGE PLATE SCREWED OR WELDED TO THE DECK RIBS ON ALL SIDES OF THE OPENING.
C. OPENINGS IN ROOF DECK GREATER THAN 12"x12" SHALL BE SUPPORTED ON STEEL ANGLE FRAMES.

054000 - COLD-FORMED METAL FRAMING (NON-LOAD BEARING)

1. STRUCTURAL COLD FORMED METAL FRAMING:
A. ALL FRAMING NOTED AS STRUCTURAL SHALL CONFORM TO THE REQUIREMENTS OF THIS SECTION.
B. COLD FORMED STEEL FRAMING SHALL CONFORM TO REQUIREMENTS OF THE CURRENT EDITION OF AISI "SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS".
C. ALL MEMBERS SHALL BE FORMED FROM CORROSION-RESISTANT STEEL (GRADE 33 UNLESS OTHERWISE SPECIFIED) AND THEN ZINC COATED PER ASTM A653, GRADE 60.
D. ALL COLD FORMED MEMBERS SHALL COME FROM A SINGLE MANUFACTURER, "CLARKDIETRICH" OR EQUAL. THE INSTALLATION SHALL COMPLY WITH THE MANUFACTURER'S RECOMMENDATIONS.
E. DESIGN BASED ON Fy = 33 KSI FOR MEMBERS 43 MILS AND LIGHTER. Fy = 50 KSI FOR MEMBERS 54 MILS AND HEAVIER.
F. FRAMING SHALL HAVE 1/8" FLANGES AND WEB DEPTHS AS INDICATED ON THE DRAWINGS.
G. TRACK BLOCKING IN WALLS AND CEILINGS SHALL BE 18 GA 143 MIL WITH 1 1/4" FLANGES.
H. BASE TRACKS SHALL BE SET ON SMOOTH AND LEVEL CONCRETE OR NON-SHRINK GROUT SUCH AS "MASTERFLOW 713" BY MASTER BUILDERS.
I. FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING CADMIUM PLATED OR ZINC COATED SCREWS (UNLESS NOTED). SCREWS SHALL BE OF SUFFICIENT SIZE TO ENSURE THE STRENGTH OF THE CONNECTION.
J. SPLICES IN FRAMING COMPONENTS OTHER THAN BOTTOM WALL TRACK ARE NOT PERMITTED.
K. STUDS SHALL BE INSTALLED SO THE ENDS ARE POSITIONED AGAINST THE INSIDE OF THE RUNNER TRACK WEB PRIOR TO FASTENING AND SHALL BE ATTACHED TO BOTH FLANGES OF THE UPPER AND LOWER RUNNER TRACKS, WITH (1) #8 SCREW IN EACH FLANGE OF EACH STUD, UNLESS NOTED.
L. ATTACH BOTTOM TRACKS WITH 0.157" DIA POWDER ACTUATED FASTENERS (HLTI X-U, ICC ESR-2269 OR EQUIVALENT) AT 16" c/c WITH 1" EMBEDMENT, TYP UNLESS NOTED OTHERWISE.
M. DESIGN OF ALL COLD FORMED METAL FRAMING COVERED IN THIS SECTION SHALL BE PERFORMED BY A DELEGATED DESIGNER REGISTERED AS A PROFESSIONAL ENGINEER IN THE STATE OF THE PROJECT. SUBMIT EITHER SIGNED AND SEALED SHOP DRAWINGS OR SHOP DRAWINGS ACCOMPANIED BY CORRESPONDING SIGNED AND SEALED CALCULATIONS.
N. NON-STRUCTURAL COLD FORMED METAL FRAMING:
A. ALL INTERIOR FRAMING NOT COVERED IN STRUCTURAL LIGHTGAGE FRAMING SECTION SHALL COMPLY WITH THIS SECTION.
B. COLD FORMED STEEL FRAMING SHALL CONFORM TO REQUIREMENTS OF THE CURRENT EDITION OF THE AMERICAN IRON AND STEEL INSTITUTE PUBLICATION "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL FRAMING - NONSTRUCTURAL MEMBERS", EXCEPT AS OTHERWISE SHOWN OR SPECIFIED.
C. FRAMING MEMBERS SHALL COMPLY WITH ASTM C645 FOR CONDITIONS INDICATED. STEEL SHEET COMPONENTS SHALL COMPLY WITH ASTM C 445 AND PROTECTIVE COATING SHALL COMPLY WITH ASTM A 653 C40 OR HAVE A COATING THAT PROVIDES EQUIVALENT CORROSION RESISTANCE. 40 GALVANEALD PRODUCTS ARE NOT ACCEPTABLE.
D. FRAMING SHALL HAVE A MINIMUM THICKNESS OF 0.019 INCHES (57 KSI MINIMUM YIELD STRENGTH) OR 0.030 INCHES (33 KSI MINIMUM YIELD STRENGTH).
E. FRAMING SHALL HAVE 1 1/4" FLANGES AND WEB DEPTHS INDICATED ON THE DRAWINGS.
F. FRAMING BASIS OF DESIGN: CLARKDIETRICH PROSTUDLO, MARINOWARE VIPER 20, 30 MILL, 33 KSI DRYWALL STUDS ARE ALSO ACCEPTABLE ALTERNATIVES. IF SUBSTITUTIONS ARE REQUESTED, THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVING THE SUBSTITUTION IS AT LEAST EQUIVALENT TO THE BASIS OF DESIGN. THIS INCLUDES SUBMITTING LOAD TABLES SHOWING THE SUBSTITUTED STUDS MEET OR EXCEED THE UNBRACED HEIGHTS GIVEN IN THE NON-COMPOSITE TABLES OF THE BASIS OF DESIGN STUDS AS WELL AS TESTING DATA THAT INDICATES SCREW CONNECTIONS FOR #8 SCREWS MEET OR EXCEEDS PUBLISHED VALUES OF THE BASIS OF DESIGN STUDS.
G. BASE TRACKS SHALL BE SET ON SMOOTH AND LEVEL CONCRETE OR NON-SHRINK GROUT SUCH AS "MASTERFLOW 713" BY MASTER BUILDERS.
H. FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING CADMIUM PLATED OR ZINC COATED SCREWS (UNLESS NOTED). SCREWS SHALL BE OF SUFFICIENT SIZE TO ENSURE THE STRENGTH OF THE CONNECTION.
I. SPLICES IN FRAMING COMPONENTS OTHER THAN TOP AND BOTTOM WALL TRACK ARE NOT PERMITTED.
J. ATTACH BOTTOM TRACKS WITH 0.157" DIA POWDER ACTUATED FASTENERS (HLTI X-U OR EQUIVALENT) AT 16" c/c, TYP UNLESS NOTED OTHERWISE.
K. STUDS SHALL BE INSTALLED SO THE ENDS ARE POSITIONED AGAINST THE INSIDE OF THE RUNNER TRACK WEB PRIOR TO FASTENING AND SHALL BE ATTACHED TO BOTH FLANGES OF THE UPPER AND LOWER RUNNER TRACKS, WITH (1) #8 SCREW IN EACH FLANGE OF EACH STUD, UNLESS NOTED.

PROJECT NO:

PROJECT #283306.00

CHECKED BY: MK

DRAWN BY: CLC

DATE: 09/15/2025

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STRUCTURAL
GENERAL NOTES

S002

WARREN COUNTY
CAREER CENTER
MEDICAL ACADEMY

3525 OH-48, Lebanon, OH 45036

CONSULTANTS

PRINTINGS:

Issd / Permit Set

09/15/2025

REVISIONS:

Number

Description

Date

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PROFESSIONAL ENGINEER

REGISTERED

09/15/2025

GREGORY WILSON
BARNSCH
65490

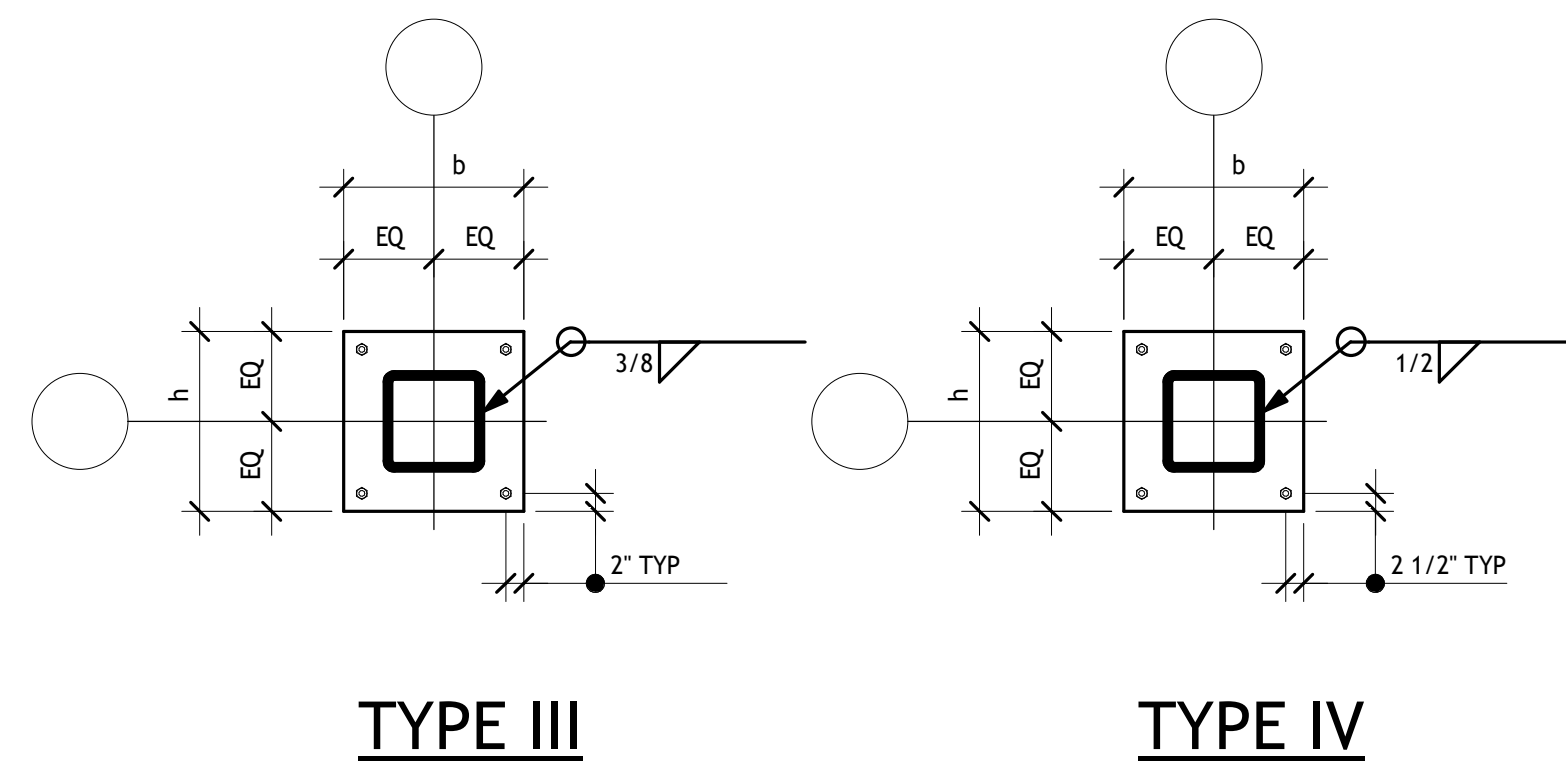
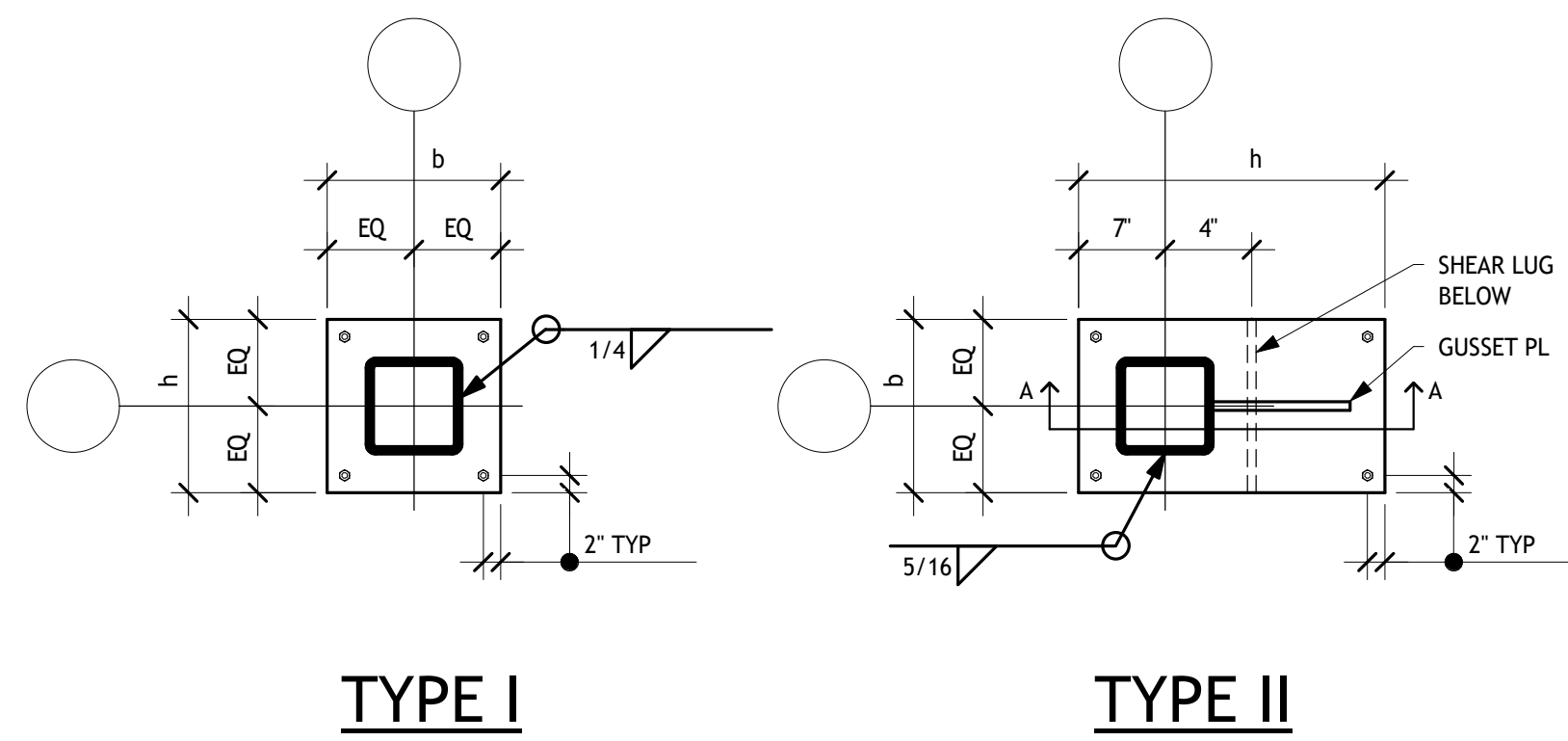
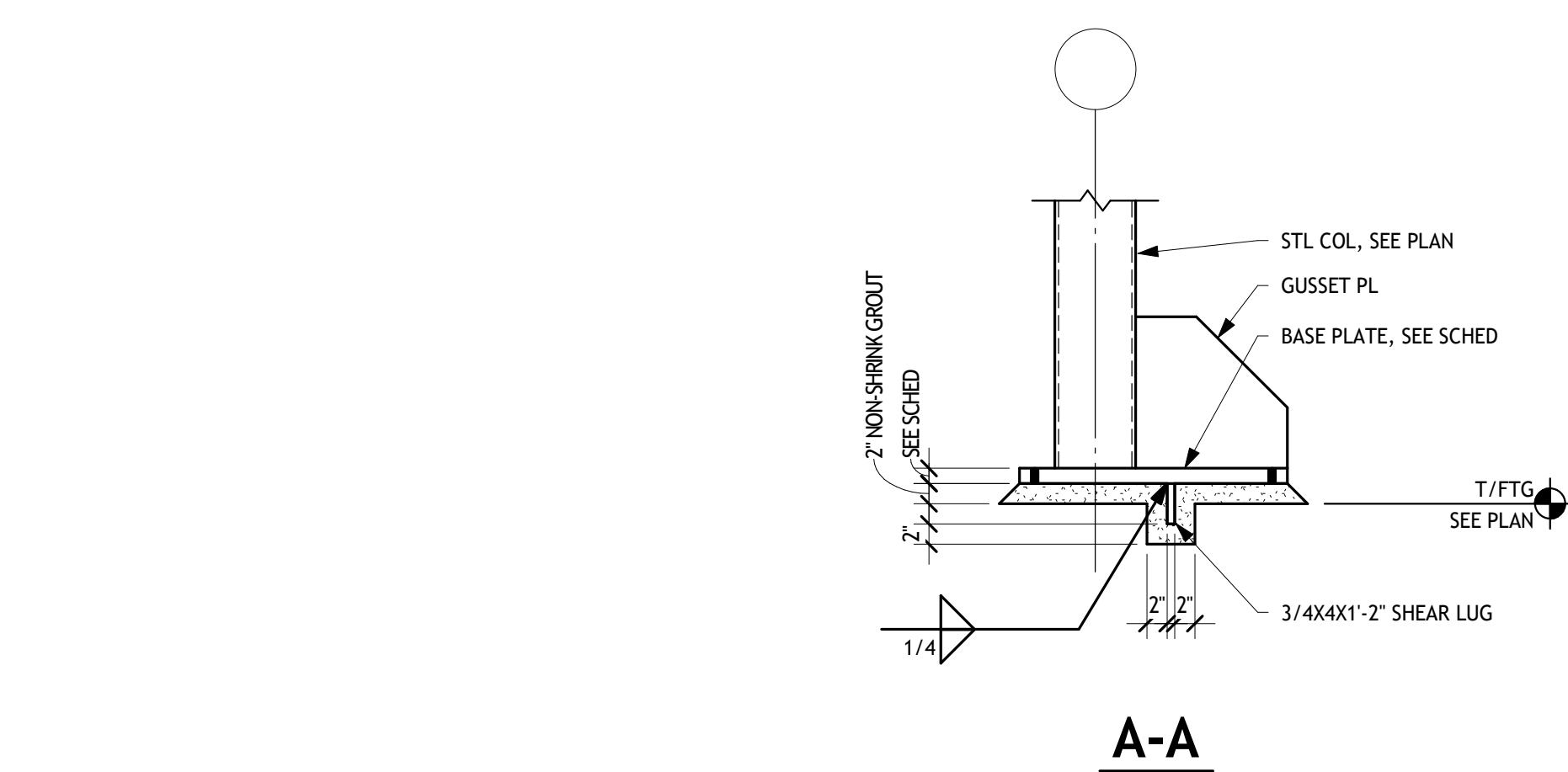
PART I: SCHEDULE OF SPECIAL INSPECTIONS				
IBC 1705.2.1 STRUCTURAL STEEL				
VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA	
	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC SECTION
1. LISTED IN AISC 360, CHAPTER N, PARAGRAPH 3.2 FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS	EACH SUBMITTAL	-	ASC 360 N.3.2	
2. MATERIAL VERIFICATION OF STRUCTURAL STEEL	-	X		
3. VISUAL INSPECTION OF EXPOSED CUT SURFACES OF GALVANIZED STRUCTURAL STEEL MAIN MEMBERS AND EXPOSED CORNERS OF THE RECTANGULAR HSS FOR CRACKS AND SUBSEQUENT TO GALVANIZING	-	X	ASC 360	1705.2
4. EMBEDMENTS (VERIFY DIAMETER, GRADE, TYPE, LENGTH, EMBEDMENT, SEE 1705.3 FOR ANCHORS)	-	X		
5. VERIFY MEMBER LOCATIONS, BRACES, STIFFENERS, AND APPLICATION OF JOINT DETAILS AT EACH CONNECTION COMPLY WITH CONSTRUCTION DOCUMENTS	-	X		
6. STRUCTURAL STEEL WELDING:				
A. INSPECTION TASKS PRIOR TO WELDING OF STRUCTURAL STEEL (PERFORM QA TASKS LISTED IN ASC 360, TABLE N5.4-1)	OBSERVE/PERFORM		ASC 360 TABLE N5.4-1	
B. INSPECTION TASKS DURING WELDING OF STRUCTURAL STEEL (PERFORM QA TASKS LISTED IN ASC 360, TABLE N5.4-2)	OBSERVE/PERFORM		ASC 360 TABLE N5.4-2	1705.2.1
C. INSPECTION TASKS AFTER WELDING OF STRUCTURAL STEEL (PERFORM QA TASKS LISTED IN ASC 360, TABLE N5.4-3)	OBSERVE/PERFORM		ASC 360 TABLE N5.4-3	
7. NONDESTRUCTIVE TESTING (NDT) OF WELDED JOINTS:				
A. UT TESTING ON ALL BUTT, T- & CORNER JOINTS IN MATERIALS 5/16" THICK OR GREATER (RISK CATEGORY III OR IV ONLY)	-		ASC 360 N5.5B	
B. UT TESTING ON 10% OF BUTT, T- & CORNER JOINTS IN MATERIAL 5/16" THICK OR GREATER (RISK CATEGORY II ONLY)	AS NOTED			1705.2.1
C. WELDED JOINTS SUBJECT TO FATIGUE WHEN REQUIRED BY ASC 360, APPX 3, TABLE A-3.1	AS NOTED		ASC 360 N5.5C	
D. FABRICATORS NDT REPORTS WHEN FABRICATOR PERFORMING NDT	VERIFY REPORTS		ASC 360 N5.5G	
8. STRUCTURAL STEEL BOLTING:				
A. INSPECTION TASKS PRIOR TO BOLTING OF STRUCTURAL STEEL (PERFORM QA TASKS LISTED IN ASC 360, TABLE N5.6-1)	OBSERVE/PERFORM		ASC 360 TABLE N5.6-1	
B. INSPECTION TASKS DURING BOLTING OF STRUCTURAL STEEL (PERFORM QA TASKS LISTED IN ASC 360, TABLE N5.6-2)	OBSERVE		ASC 360 TABLE N5.6-2	1705.2.1
C. INSPECTION TASKS AFTER BOLTING OF STRUCTURAL STEEL (PERFORM QA TASKS LISTED IN ASC 360, TABLE N5.6-3)	PERFORM		ASC 360 TABLE N5.6-3	
9. WHERE APPLICABLE, SEE SECTION 1705.13, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.				
10. SEE ASC 360, APPENDIX N, FOR DEFINITIONS OF OBSERVE AND PERFORM.				

PART 1: SCHEDULE OF SPECIAL INSPECTIONS				
IBC 1705.2.3 COLD-FORMED STEEL DECK				
VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA	
	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC SECTION
1. MANUFACTURER DOCUMENTS (VERIFY REPORTS AND CERTIFICATES AS LISTED IN SDI QA/QC, SECTION B FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS)	EACH SUBMITTAL	-	SDI QA/QC SECTION B	1705.2.3
2. MATERIAL VERIFICATION OF STEEL DECK, MECHANICAL FASTENERS, AND WELDING MATERIALS	-	X	SDI QA/QC	
3. COLD-FORMED STEEL DECK PLACEMENT:				
A. INSPECTION TASKS PRIOR TO COLD-FORMED STEEL DECK PLACEMENT (PERFORM QA TASKS LISTED IN SDI QA/QC, TABLE 1.1)	PERFORM		SDI QA/QC, TABLE 1.1	1705.2.3
B. INSPECTION TASKS AFTER COLD-FORMED STEEL DECK PLACEMENT (PERFORM QA TASKS LISTED IN SDI QA/QC, TABLE 1.2)	PERFORM		SDI QA/QC, TABLE 1.2	
4. COLD-FORMED STEEL DECK WELDING:				
A. INSPECTION TASKS PRIOR TO WELDING OF COLD-FORMED STEEL DECK (PERFORM QA TASKS LISTED IN SDI QA/QC, TABLE 1.3)	OBSERVE		SDI QA/QC, TABLE 1.3	1705.2.3
B. INSPECTION TASKS DURING WELDING OF COLD-FORMED STEEL DECK (PERFORM QA TASKS LISTED IN SDI QA/QC, TABLE 1.4)	OBSERVE		SDI QA/QC, TABLE 1.4	
C. INSPECTION TASKS AFTER WELDING OF COLD-FORMED STEEL DECK (PERFORM QA TASKS LISTED IN SDI QA/QC, TABLE 1.5)	PERFORM		SDI QA/QC, TABLE 1.5	
5. COLD-FORMED STEEL DECK MECHANICAL FASTENING:				
A. INSPECTION TASKS PRIOR TO MECHANICAL FASTENING OF COLD-FORMED STEEL DECK (PERFORM QA TASKS LISTED IN SDI QA/QC, TABLE 1.6)	OBSERVE		SDI QA/QC, TABLE 1.6	1705.2.3
B. INSPECTION TASKS DURING MECHANICAL FASTENING OF COLD-FORMED STEEL DECK (PERFORM QA TASKS LISTED IN SDI QA/QC, TABLE 1.7)	OBSERVE		SDI QA/QC, TABLE 1.7	
C. INSPECTION TASKS AFTER MECHANICAL FASTENING OF COLD-FORMED STEEL DECK (PERFORM QA TASKS LISTED IN SDI QA/QC, TABLE 1.8)	PERFORM		SDI QA/QC, TABLE 1.8	
6. SEE SDI QA/QC, APPENDIX 1, FOR DEFINITIONS OF OBSERVE AND PERFORM.				

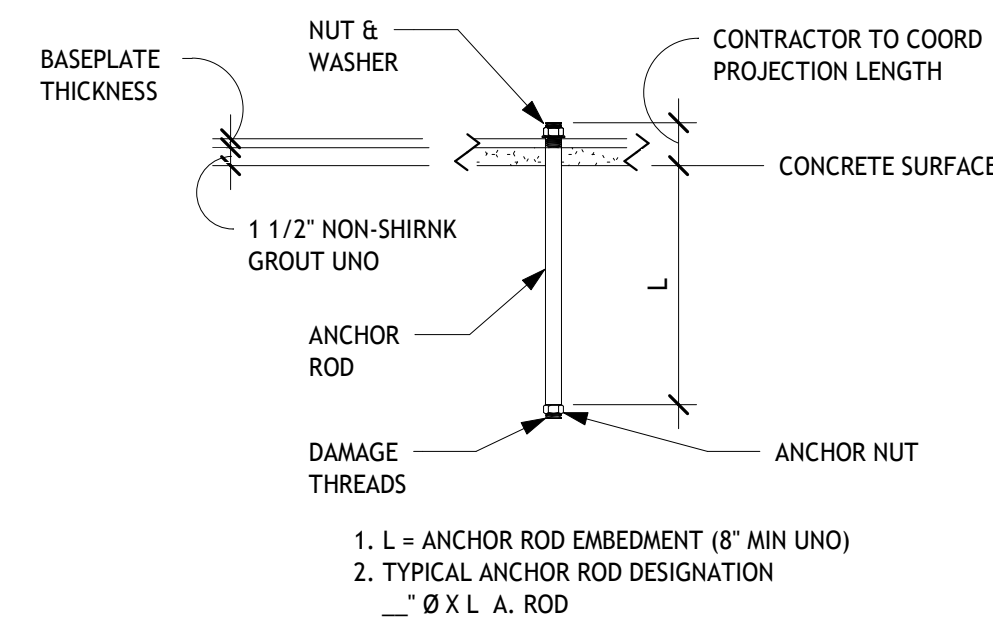
PART I: SCHEDULE OF SPECIAL INSPECTIONS				
IBC 1705.2.4 OPEN-WEB STEEL JOISTS AND JOIST GIRDERS				
	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA	
VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC SECTION
1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS				
a. END CONNECTIONS - WELDING OR BOLTING	-	X	S.II 2207.1	1705.2.4
b. BRIDGING - HORIZONTAL AND DIAGONAL				
a. STANDARD BRIDGING	-	X	S.II 2207.1	1705.2.4
b. BRIDGING THAT DIFFERS FROM S.II SPECIFICATIONS	-	X		
2. WHERE APPLICABLE, SEE SECTION 1705.13, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.				

PART I: SCHEDULE OF SPECIAL INSPECTIONS				
IBC 1705.3 REQUIRED SPECIAL INSPECTIONS AND TESTS FOR CONCRETE CONSTRUCTION				
VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA	
	CONTINUOUS	PERIODIC	REFERENCED STANDARDS ^A	IBC SECTION
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	-	X	ACI 318 CH. 20, 25.2, 25.3, 26.6.1-26.6.3	-
2. INSPECTION OF REINFORCING STEEL WELDING				
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	-	X	AWS D1.4 ACI 318 26.13.1.4	-
B. INSPECT WELDING OF REINFORCEMENT FOR SPECIAL MOMENT FRAMES, BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS AND COUPLING BEAM	X	-	AWS D1.4 ACI 318 26.13.3	-
C. INSPECT WELDED REINFORCEMENT SPLICES	X	-	-	-
D. INSPECT WELDING OF PRIMARY TENSION REINFORCEMENT IN CORBELS	X	-	-	-
E. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"	-	X	AWS D1.4 ACI 318 26.13.3	-
F. INSPECT ALL OTHER WELDS.	-	X	AWS D1.4 ACI 318 26.13.3	-
3. INSPECTION OF ANCHORS CAST IN CONCRETE	-	X	ACI 318 26.13.3	-
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS			^B	
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	-	ACI 318 26.13.3.2	-
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A	-	X	ACI 318 26.13.3	-
5. VERIFY USE OF REQUIRED DESIGN MIX.	-	X	ACI 318 CH. 19, 26.4.3, 26.4.4	1904.1 1904.2
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C31 ASTM C172 ACI 318 26.5, 26.12	-
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318 26.5	-
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318 26.5.3 - 26.5.5	-
9. INSPECTION OF PRESTRESSED CONCRETE:				
A. APPLICATION OF PRESTRESSING FORCES.	N/A	-	ACI 318 26.10	-
B. GROUTING OF BONDED PRESTRESSING TENDONS	N/A	-		
10. INSPECTION OF ERECTION OF PRECAST CONCRETE MEMBERS	-	N/A	ACI 318 26.8	-
11. FOR PRECAST CONCRETE DIAPHRAGM CONNECTIONS OR REINFORCEMENT JOINTS CLASSIFIED AS MODERATE OR HIGH DEFORMABILITY (ADE OR HDE) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E, OR F, INSPECT SUCH CONNECTION AND REINFORCEMENT IN THE FIELD FOR:				
A. INSTALLATION OF THE EMBEDDED PARTS	N/A	-	ACI 318 26.13.1.3 ACI 550.5	-
B. COMPLETION OF THE CONTINUITY OF REINFORCEMENT ACROSS JOINTS.	N/A	-	ACI 318 26.13.1.3 ACI 550.5	-
C. COMPLETION OF CONNECTIONS IN THE FIELD	N/A	-	ACI 318 26.13.1.3 ACI 550.5	-
12. INSPECT INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS FOR COMPLIANCE WITH ACI 550.5	-	N/A	ACI 318 26.13.1.3	-
13. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	-	N/A	ACI 318 26.11.2	-
14. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	-	X	ACI 318 26.11.1,2(b)	-
A. WHERE APPLICABLE, SEE SECTION 1705.13, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.				
B. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 26.13 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES, WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED. SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.				

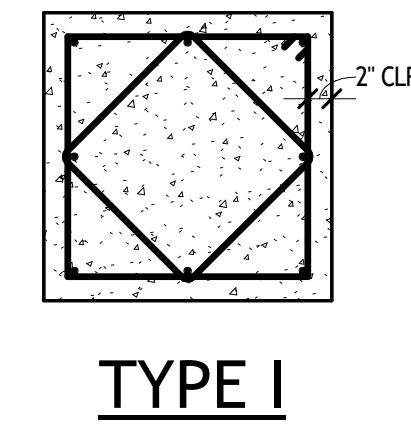
PART I: SCHEDULE OF SPECIAL INSPECTIONS		
IBC 1705.6 REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS		
VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	X
4. DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT. VERIFY DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	-
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY SITE HAS BEEN PREPARED PROPERLY.	-	X



COLUMN BASE PLATE TYPES



TYPICAL ANCHOR ROD DETAIL



PIER TYPES

LINTEL SCHEDULE		
MARK	SIZE	BRG/REMARKS
A	LSX3 1/2X3/8	
B	3/8"x4"x0-8" BENT PL	

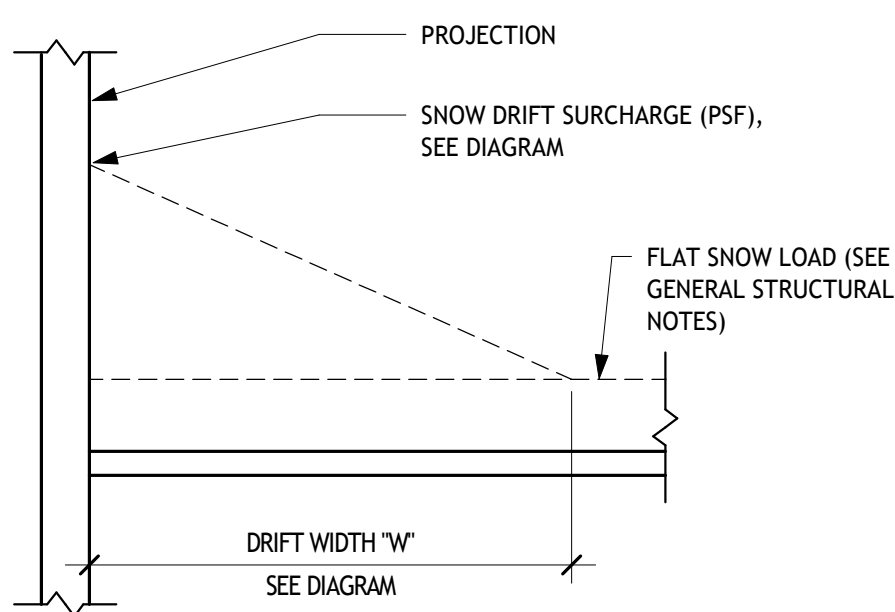
1. ALL LINTELS HAVE A MINIMUM OF 8" BEARING, UNLESS NOTED.
2. LONG LEG VERTICAL ON ANGLES UNLESS NOTED.
3. SEE ARCH DRAWINGS FOR VERTICAL LOCATION OF LINTELS.

COLUMN SCHEDULE				
MARK	SIZE	BASE PLATE SIZE (bxbh) & TYPE	ANCHOR RODS x EMBED	REMARKS
C1	HSS60X1/4	3/4X14X1'-2", TYPE I	(4) 3/4"Ø x 0'-0"	
C2	HSS60X1/4	3/4X14X1'-10", TYPE II	(4) 3/4"Ø x 1'-10 1/2"	2" NON-SHRINK GROUT
C3	HSS60X3/8	1X14X1'-2", TYPE III	(4) 1"Ø x 1'-0"	2" NON-SHRINK GROUT
C4	HSS80X1/2	1 1/4X18X1'-6", TYPE IV	(4) 1 1/2"Ø x 1'-0"	2" NON-SHRINK GROUT
C5	HSS80X5/8	1 1/4X18X1'-6", TYPE IV	(4) 1 1/2"Ø x 1'-0"	2" NON-SHRINK GROUT
C6	HSS60X1/4	3/4X12X1'-0", TYPE I	(4) 3/4"Ø x 0'-9"	

PIER SCHEDULE				
MARK	WIDTH	LENGTH	REINFORCING	REMARKS
P1	2'-6"	2'-6"	(8) #7 w/ #3 TIES @ 12" c/c	
P2	3'-0"	3'-0"	(8) #9 w/ #3 TIES @ 12" c/c	
P3	2'-0"	2'-0"	(8) #6 w/ #3 TIES @ 12" c/c	

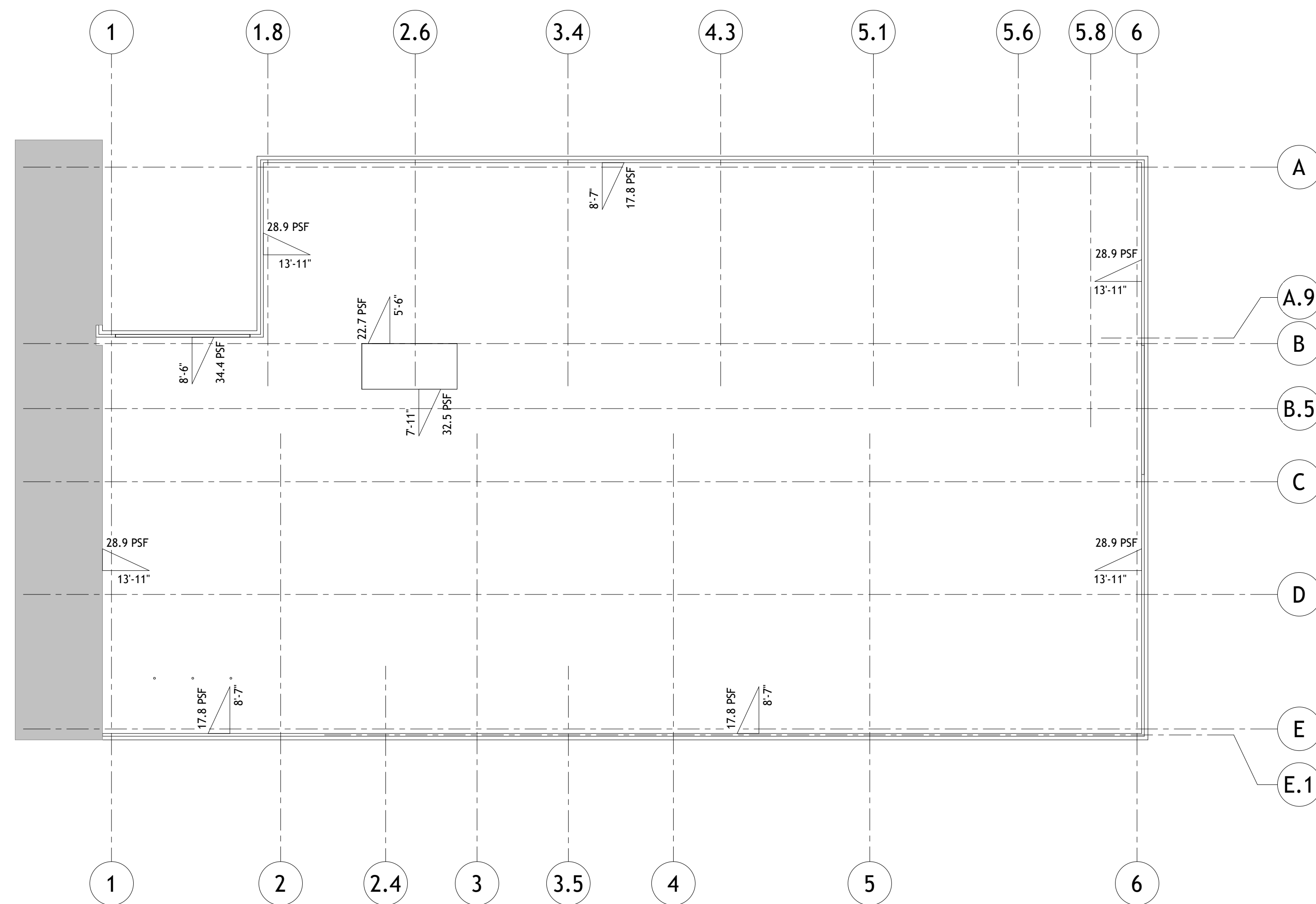
FOOTING SCHEDULE - ISOLATED FOOTINGS					
TYPE	SIZE		THICKNESS	REINFORCING	REMARKS
	WIDTH	LENGTH			
46	4'-6"	4'-6"	1'-6"	(4) #6 EW TGB	
60	6'-0"	6'-0"	1'-0"	(5) #5 EWB	
66	6'-6"	6'-6"	1'-2"	(5) #6 EWB	
66A	6'-6"	6'-6"	1'-2"	(5) #6 EW TGB	
76	7'-6"	7'-6"	1'-2"	(6) #6 EW TGB	
76A	7'-6"	7'-6"	3'-0"	(6) #6 EW TGB	
80	8'-0"	8'-0"	1'-4"	(7) #6 EW TGB	

FOOTING SCHEDULE - WALL FOOTINGS					
TYPE	SIZE		THICKNESS	REINFORCING	REMARKS
	WIDTH	LENGTH			
W24	2'-0"	CONT	1'-0"	(2) #5 CONT	
W48	4'-0"	CONT	1'-0"	(4) #5 CONT	



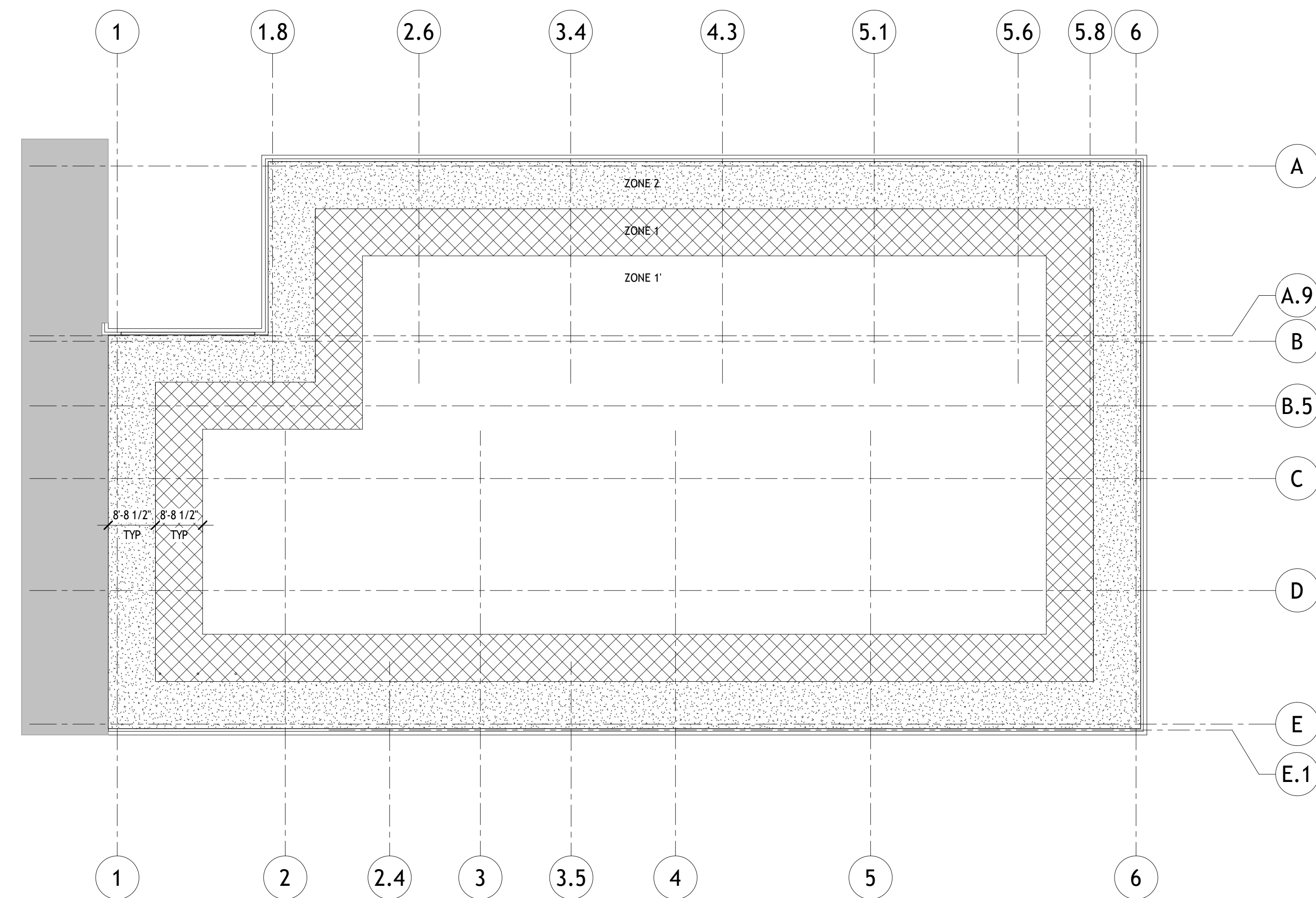
- VALUES IN DIAGRAM ARE SURCHARGE SNOW LOADS (ASD) ADDED TO THE UNIFORM FLAT SNOW LOAD. SEE S002 FOR GENERAL INFORMATION ON SNOW LOADS.

SNOW DRIFT DETAIL



SNOW LOADING DIAGRAM

- SEE GENERAL NOTES ON S002 FOR ADDITIONAL SNOW PARAMETERS.

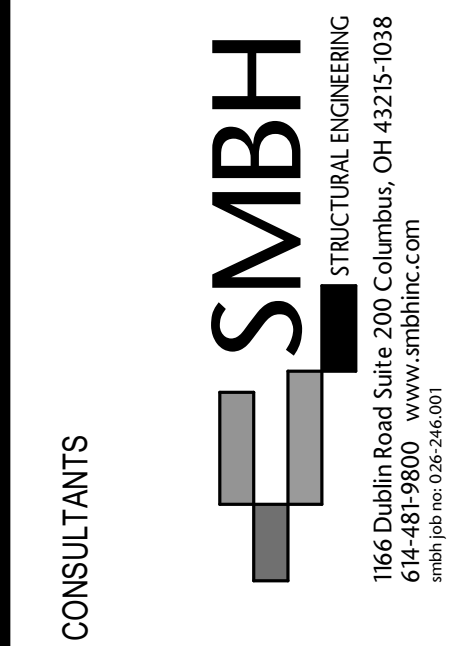


WIND UPLIFT DIAGRAM

- SEE GENERAL NOTES ON S002 FOR ADDITIONAL LOAD PARAMETERS.
- SEE COMPONENTS AND CLADDING SCHEDULE ON S002 FOR ZONE WIND PRESSURES. FOR NET UPLIFT CALCULATIONS, 9 PSF DEAD LOAD SHALL BE USED.



REVISIONS:		Number	Description	Date
PRINTINGS:		Bld / Permit Set		
		09/15/2026		



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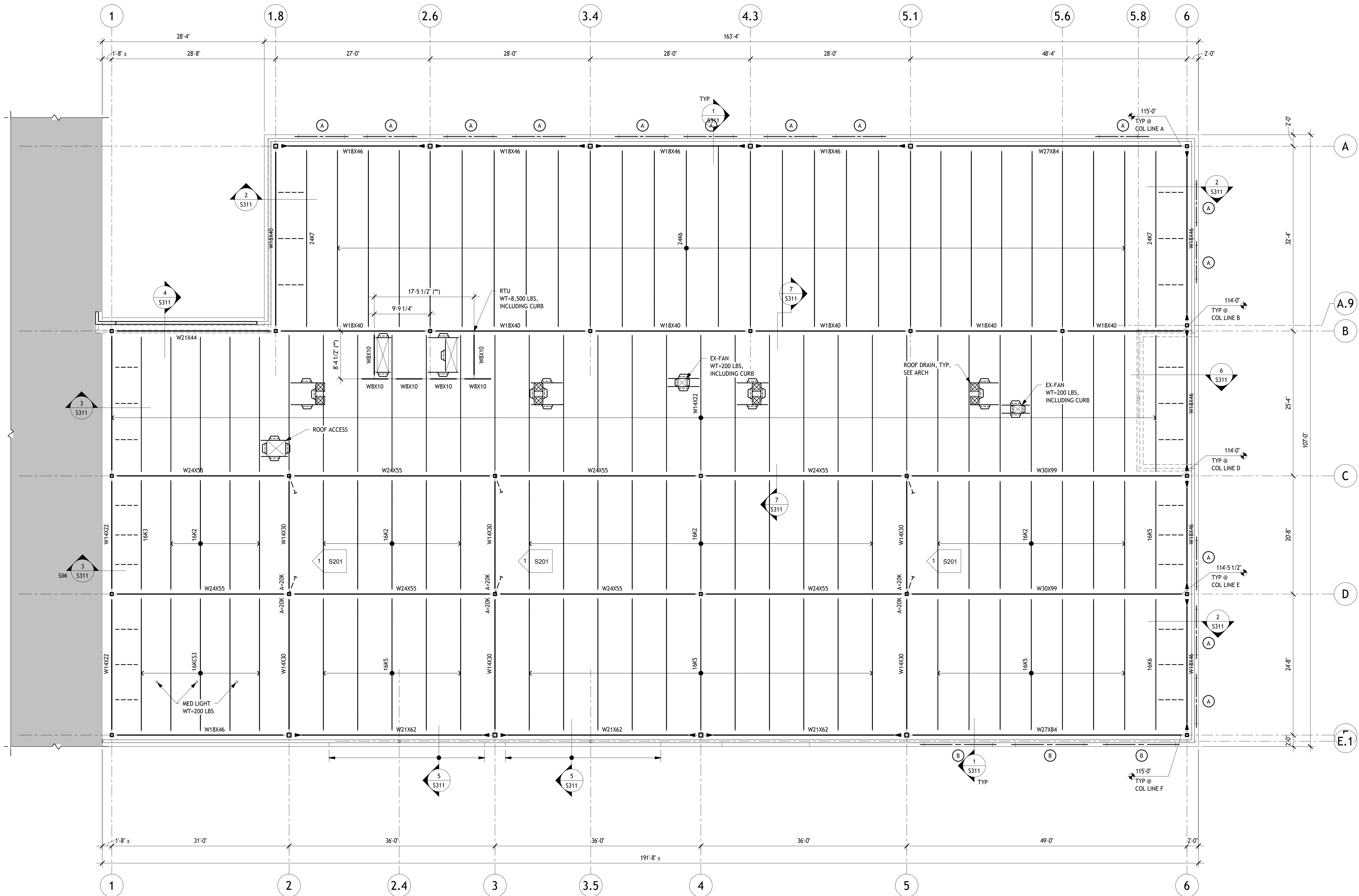
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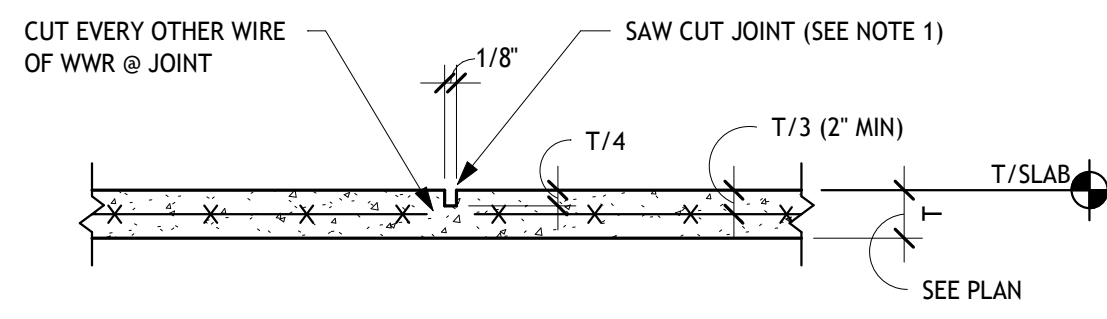
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STRUCTURAL
SCHEDULES, TYPICAL
DETAILS & DIAGRAMS

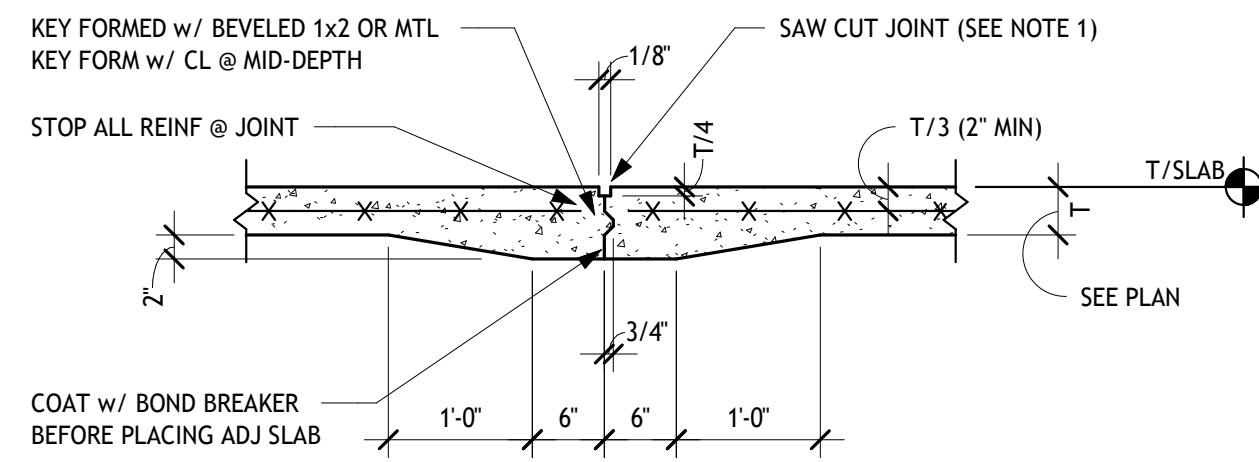
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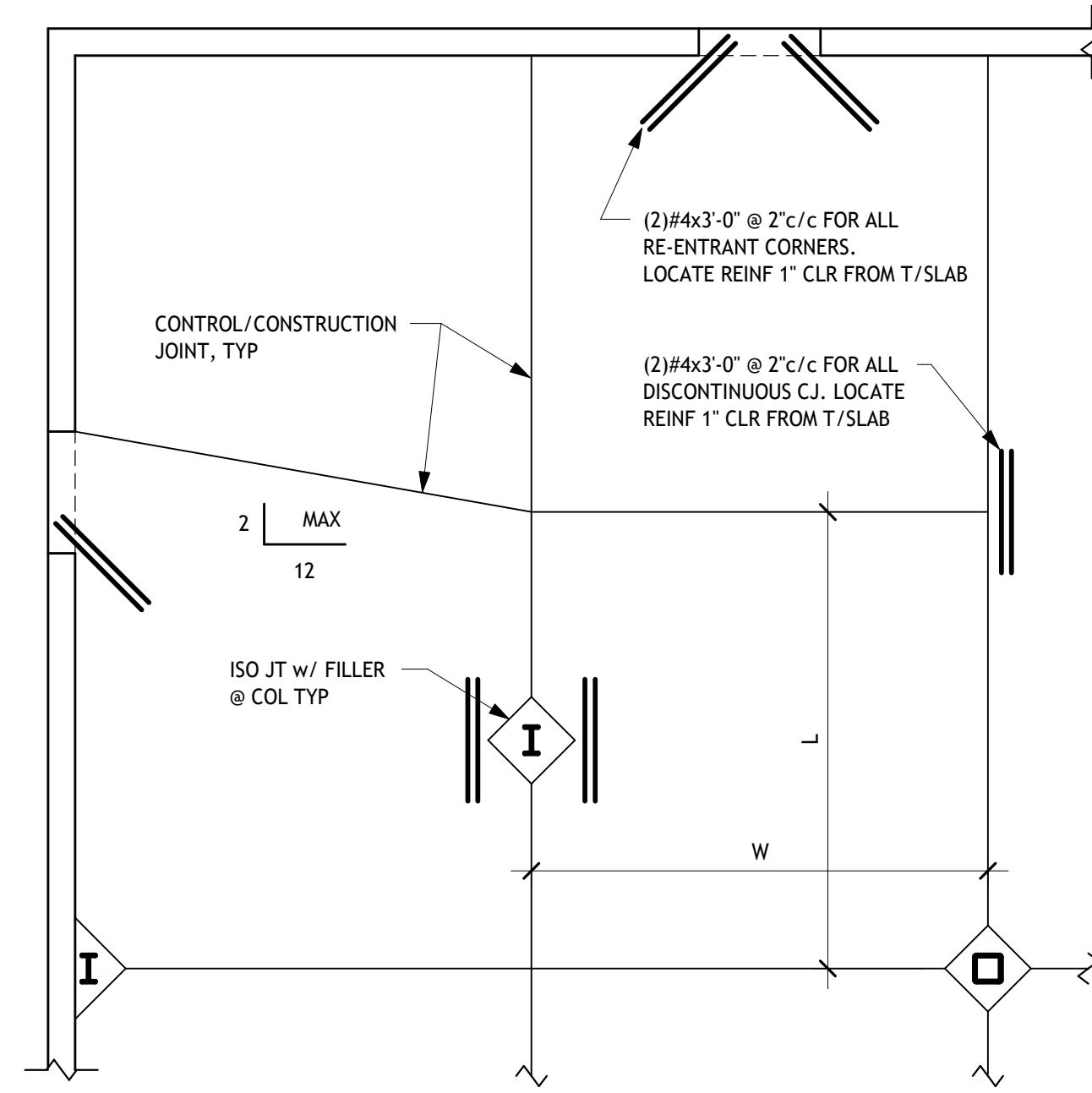
1. SAW CUTTING OF JOINTS SHALL BE DONE WHEN THE CONCRETE IS FIRM ENOUGH TO PERMIT CUTTING WITHOUT TEARING OR DAMAGE BY THE BLADE AND BEFORE RANDOM DRYING SHRINKAGE CRACKS CAN FORM, BUT NO MORE THAN 24 HOURS AFTER PLACING. FILL JOINT WITH JOINT SEALANT PER ARCH.

1 DETAIL
S301



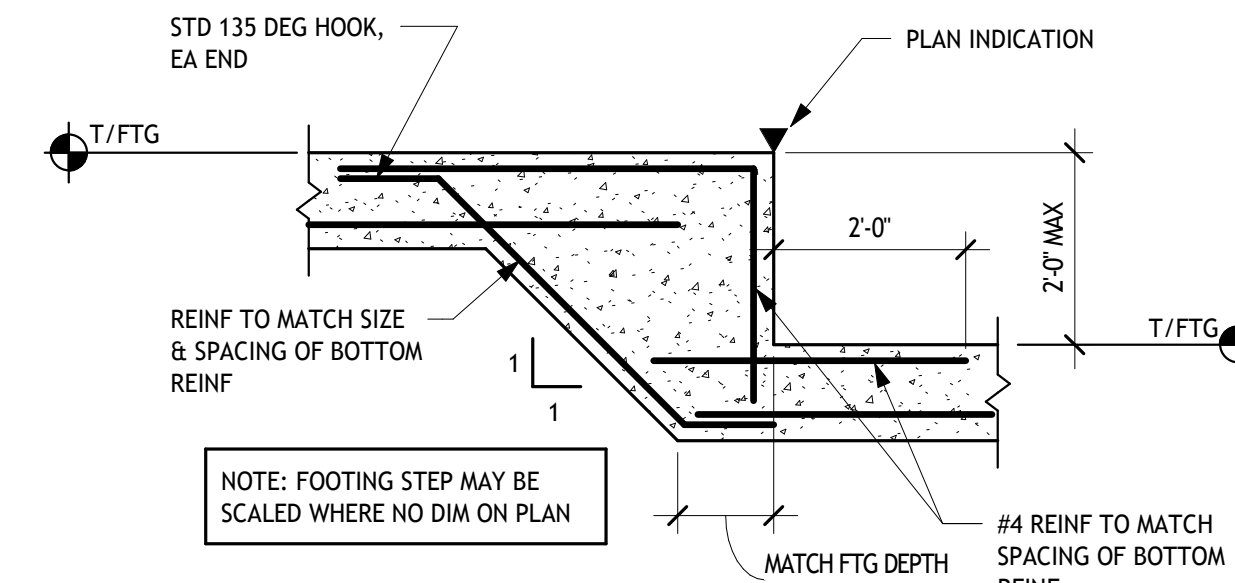
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2 DETAIL
S301

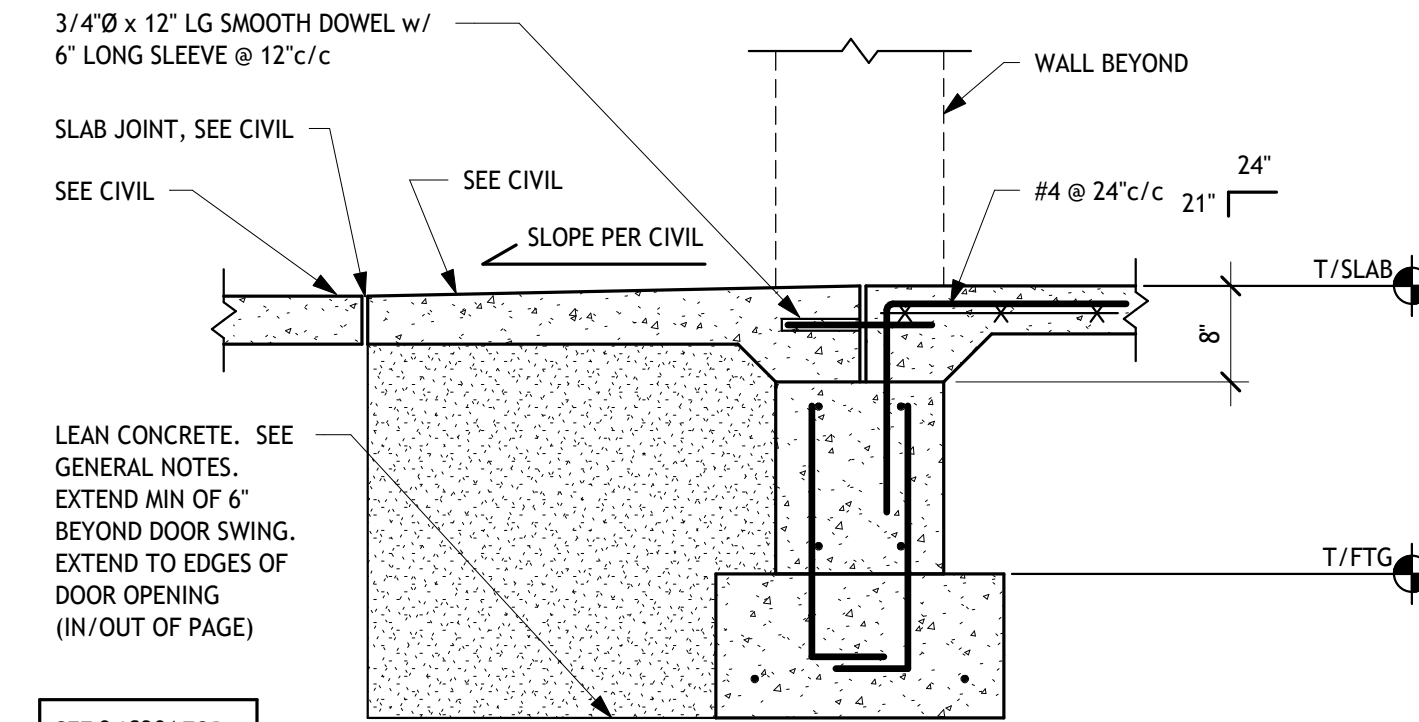


NOTE:
1. JOINTS SHALL DIVIDE SLAB INTO AREAS AS SQUARE AS POSSIBLY (1.25 TO 1) FOR MAXIMUM LxW RATIO.
2. MAXIMUM CONTROL/CONSTRUCTION JOINT SPACING SHALL BE 36 TIMES THE SLAB ON GRADE THICKNESS, BUT SHALL NOT EXCEED 15'-0" FOR SLAB ON GRADE THICKNESS OF 5" OR GREATER.

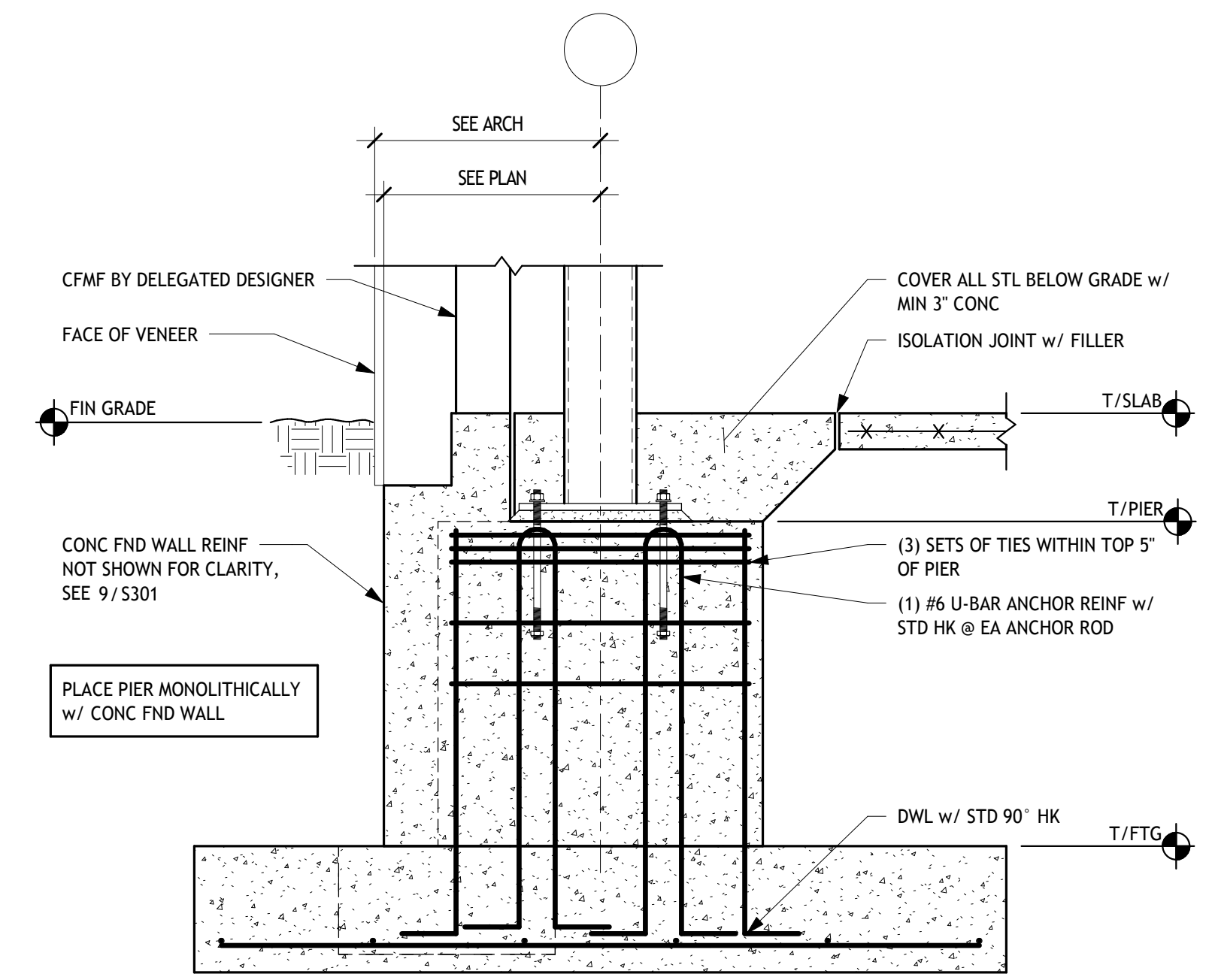
3 CONSTRUCTION/CONTROL JOINT DETAIL
S301



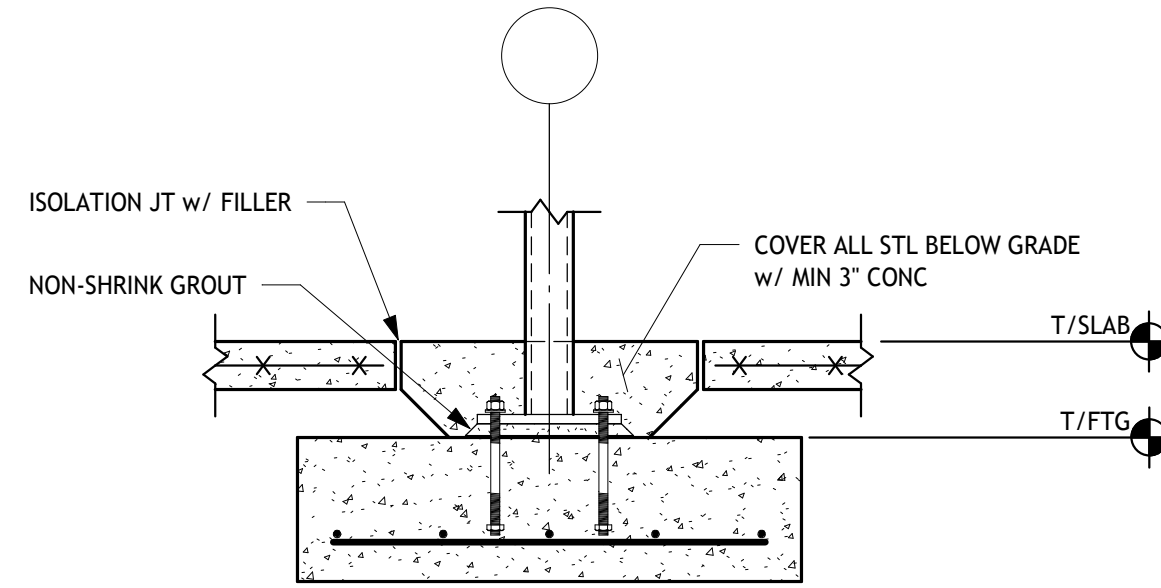
4 DETAIL
S301



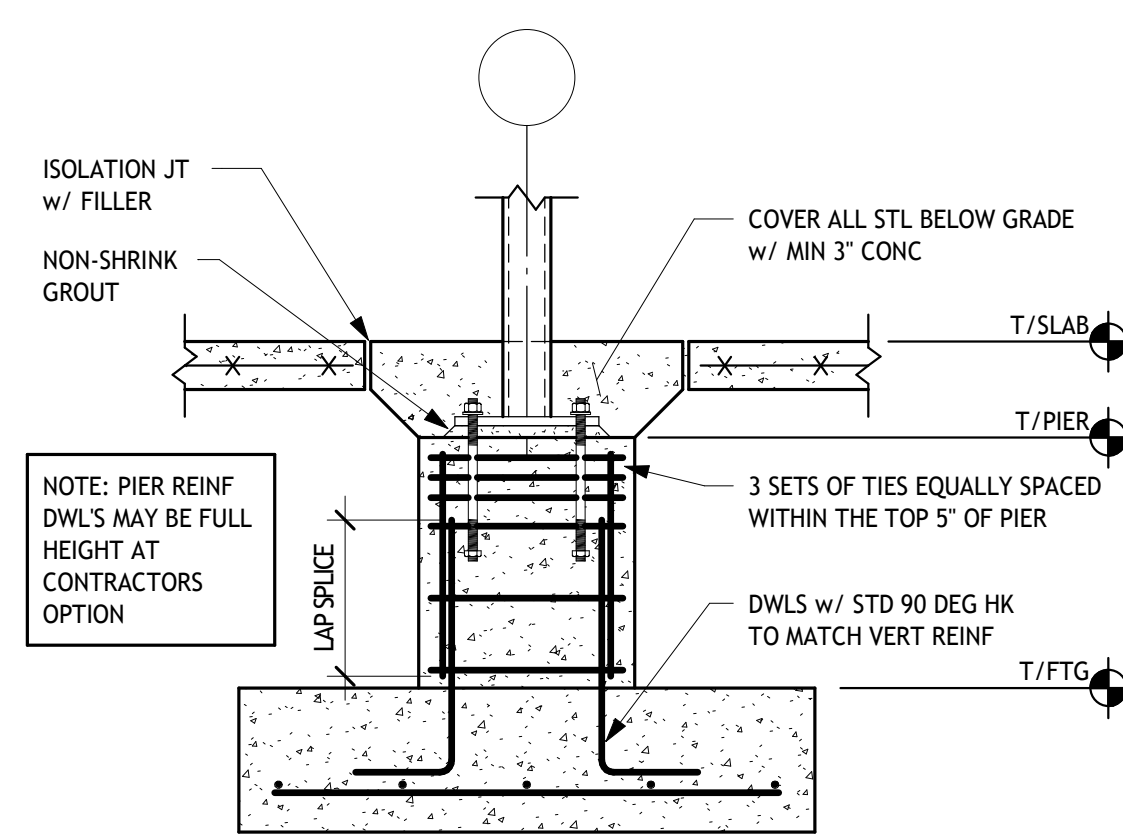
5 SECTION
S301



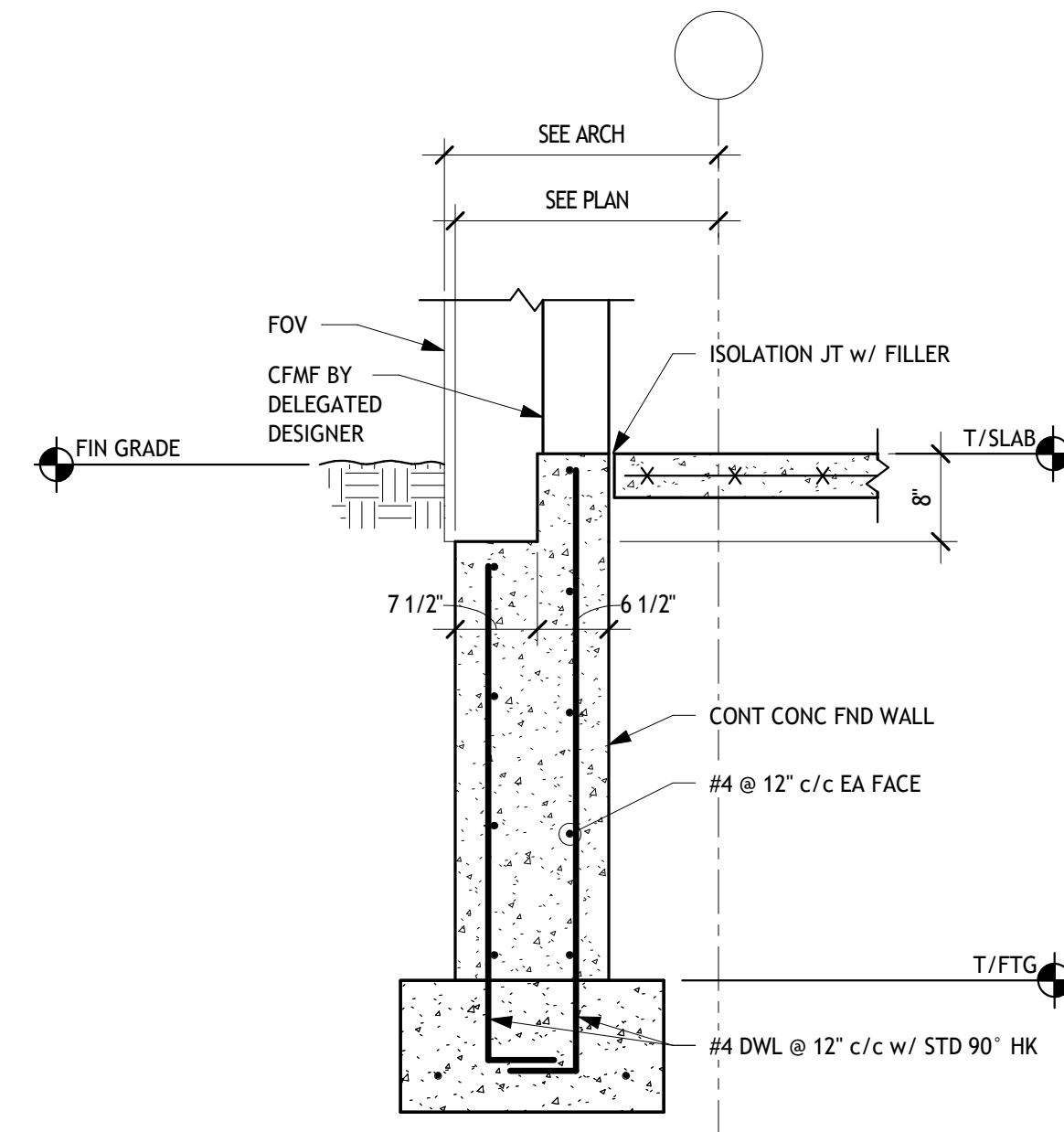
6 SECTION
S301 3/4" = 1'-0"



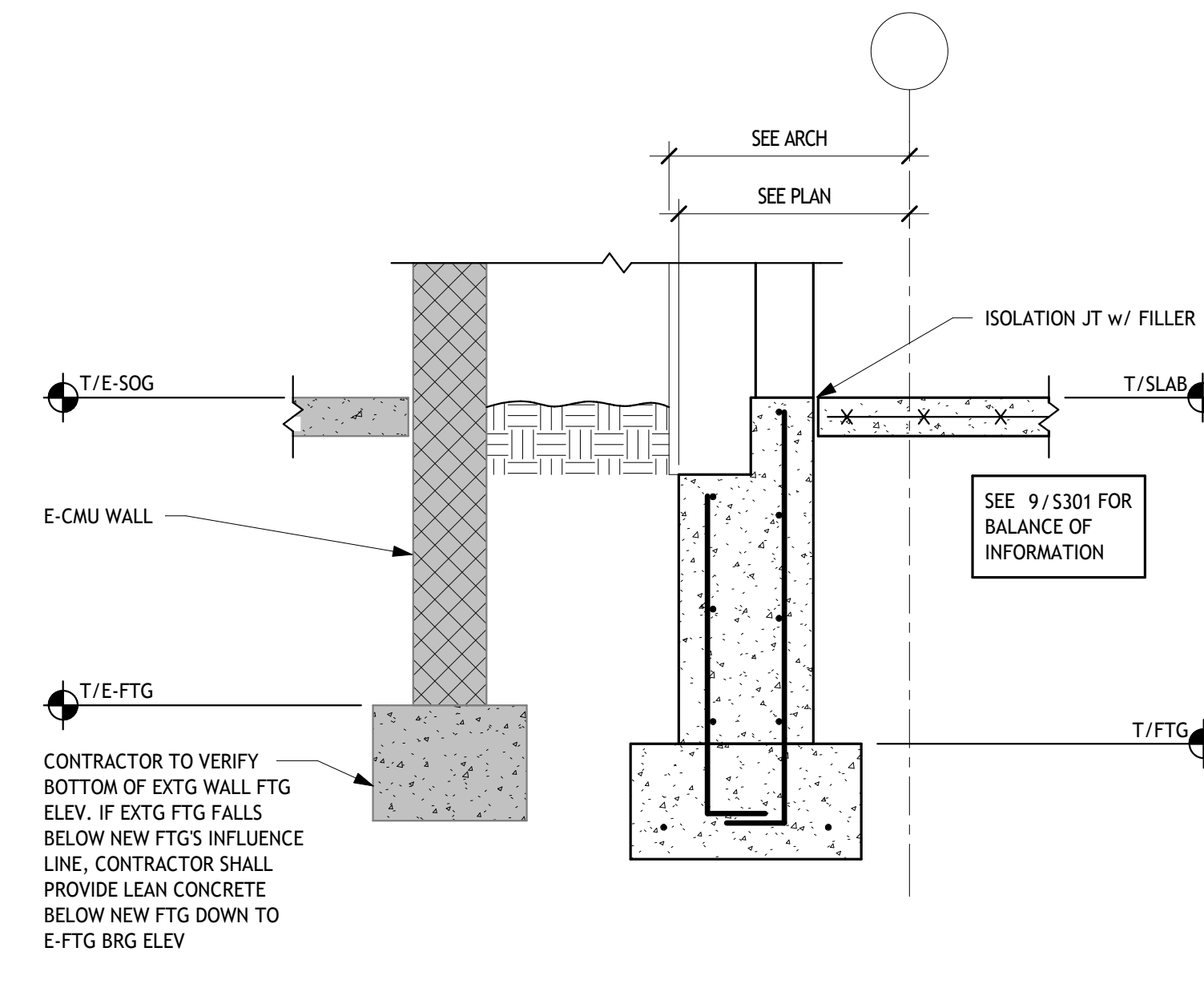
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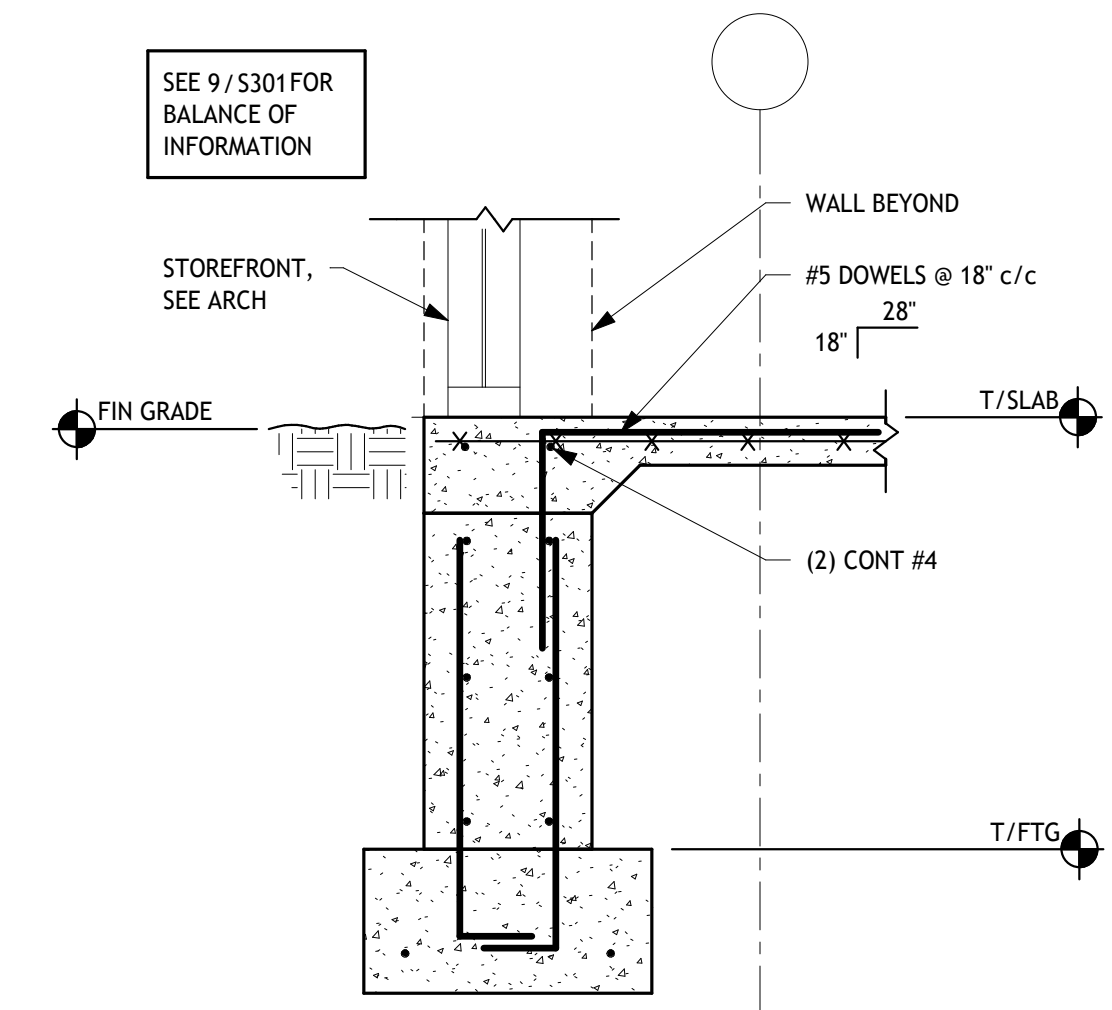
8 SECTION
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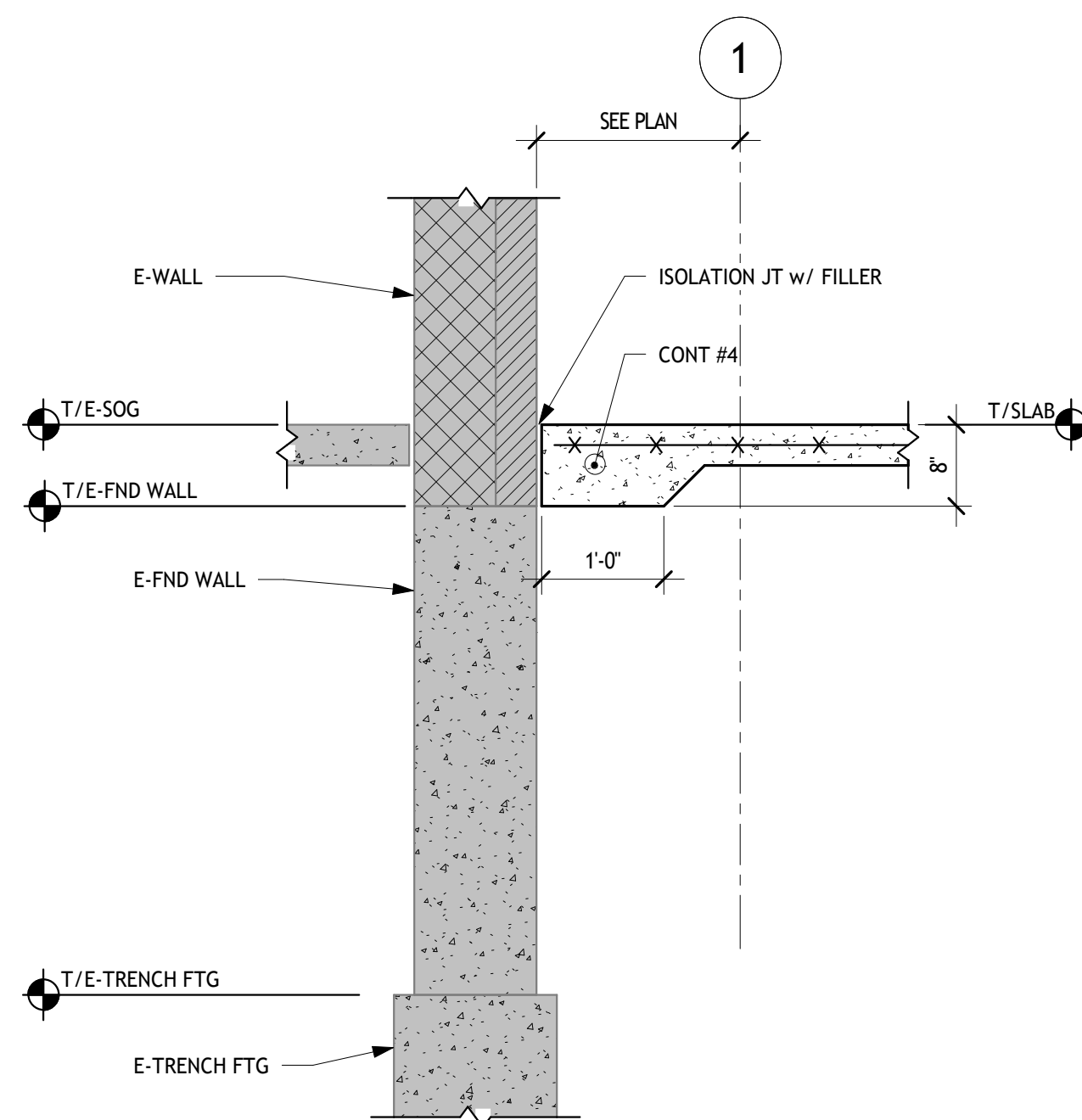
9 SECTION
S301 3/4" = 1'-0"



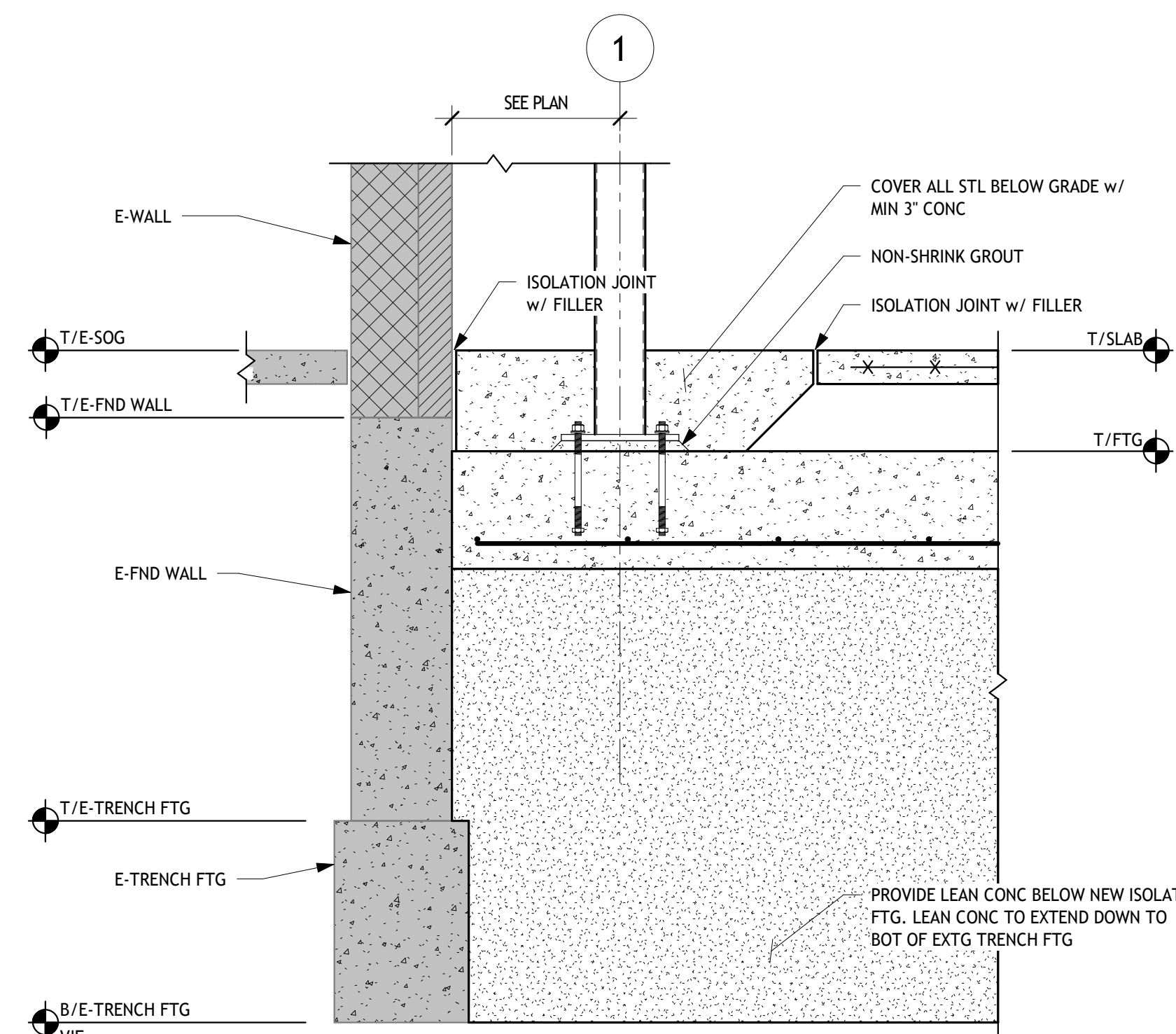
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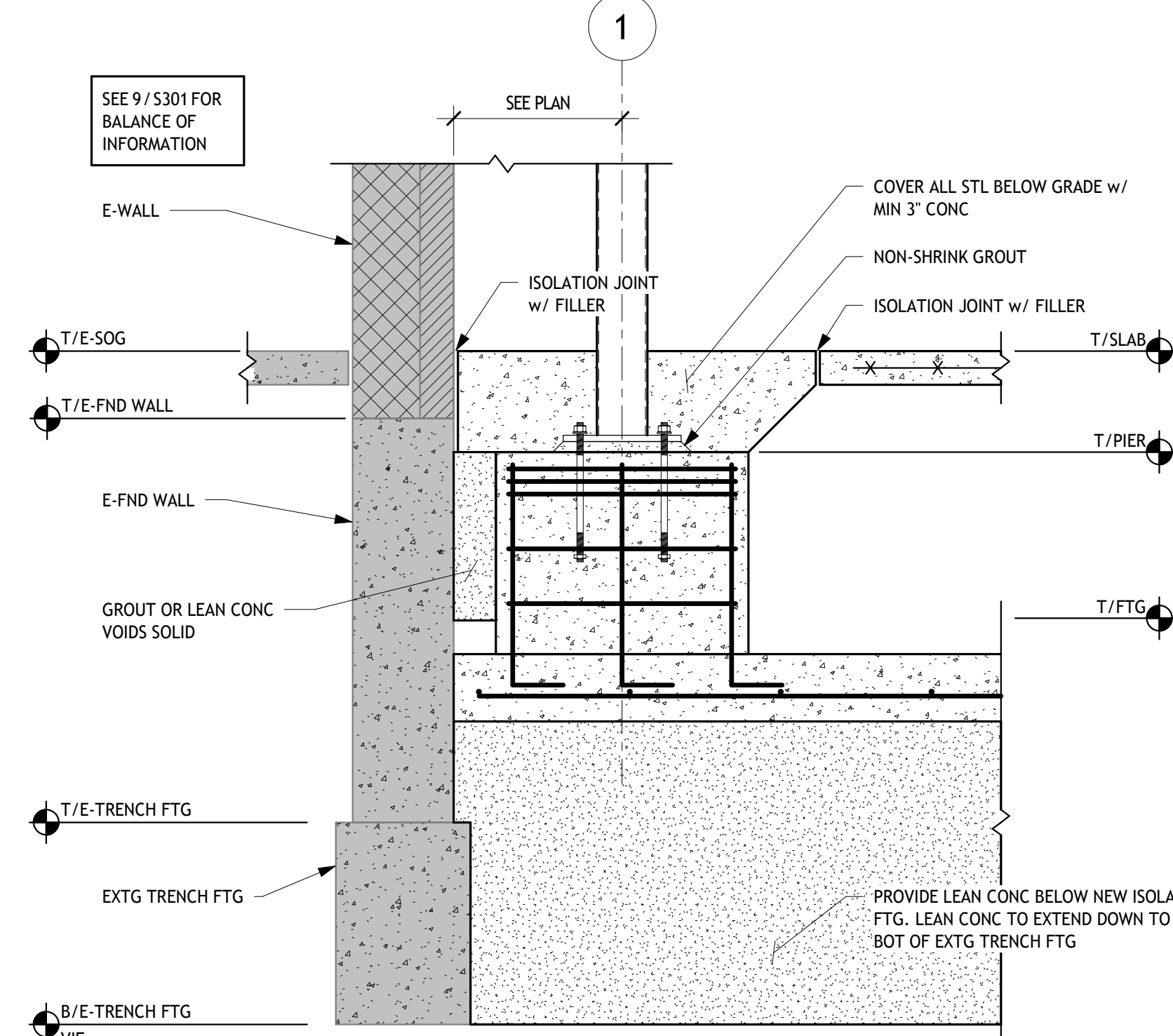
11 SECTION
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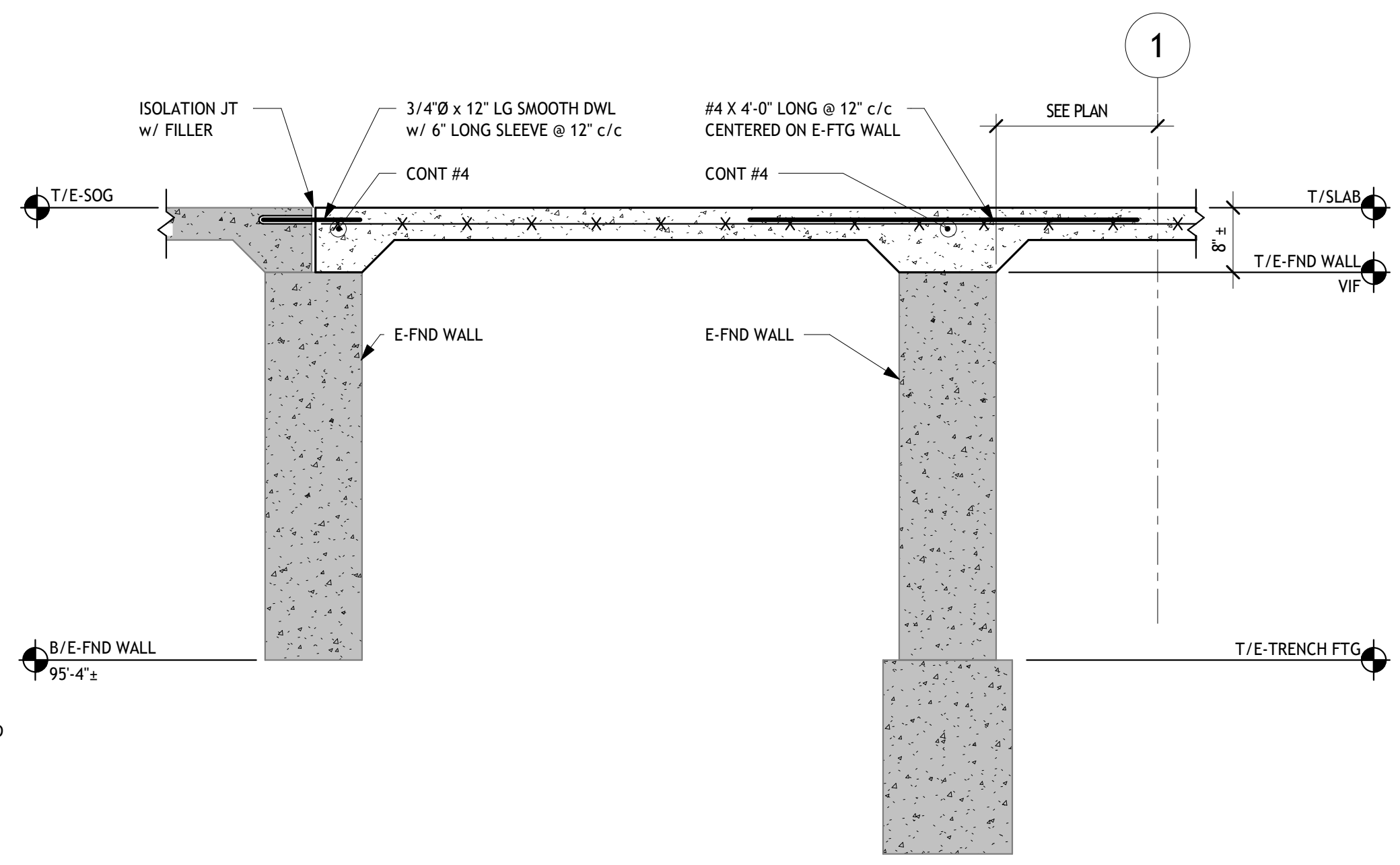
12 SECTION
S301 3/4" = 1'-0"



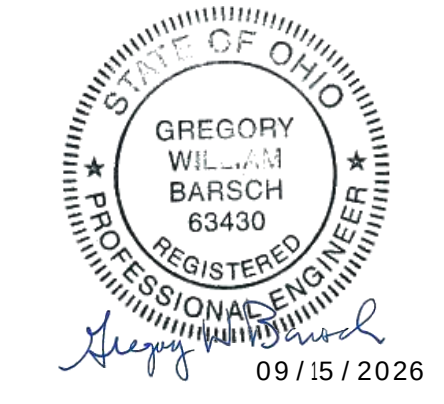
13 SECTION
S301 3/4" = 1'-0"



14 SECTION
S301 3/4" = 1'-0"



15 SECTION
S301 3/4" = 1'-0"



Revisions:	Number	Description	Date

Printings:	Sheet	Permit Set	Date

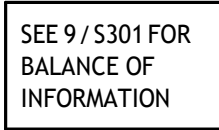
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614-489-9900 www.smbhinc.com

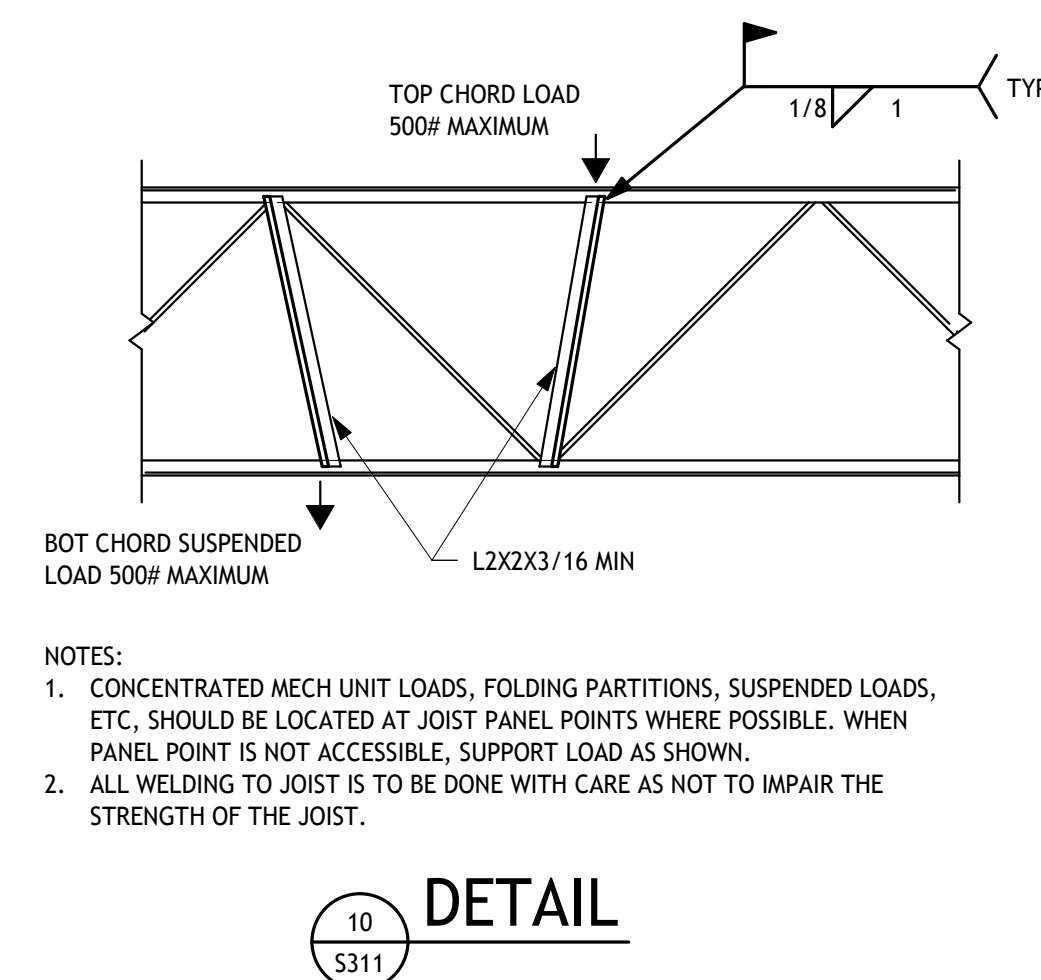
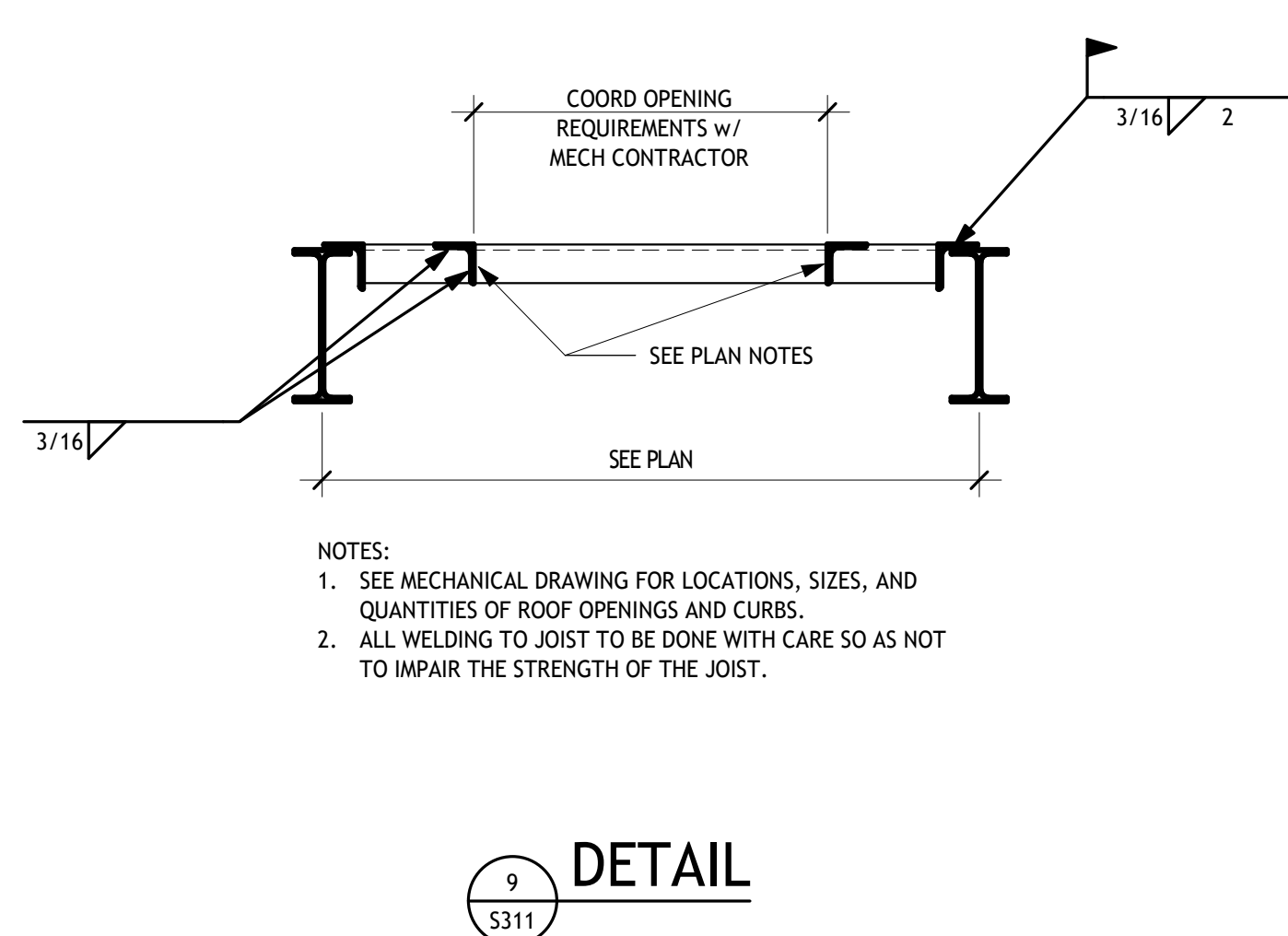
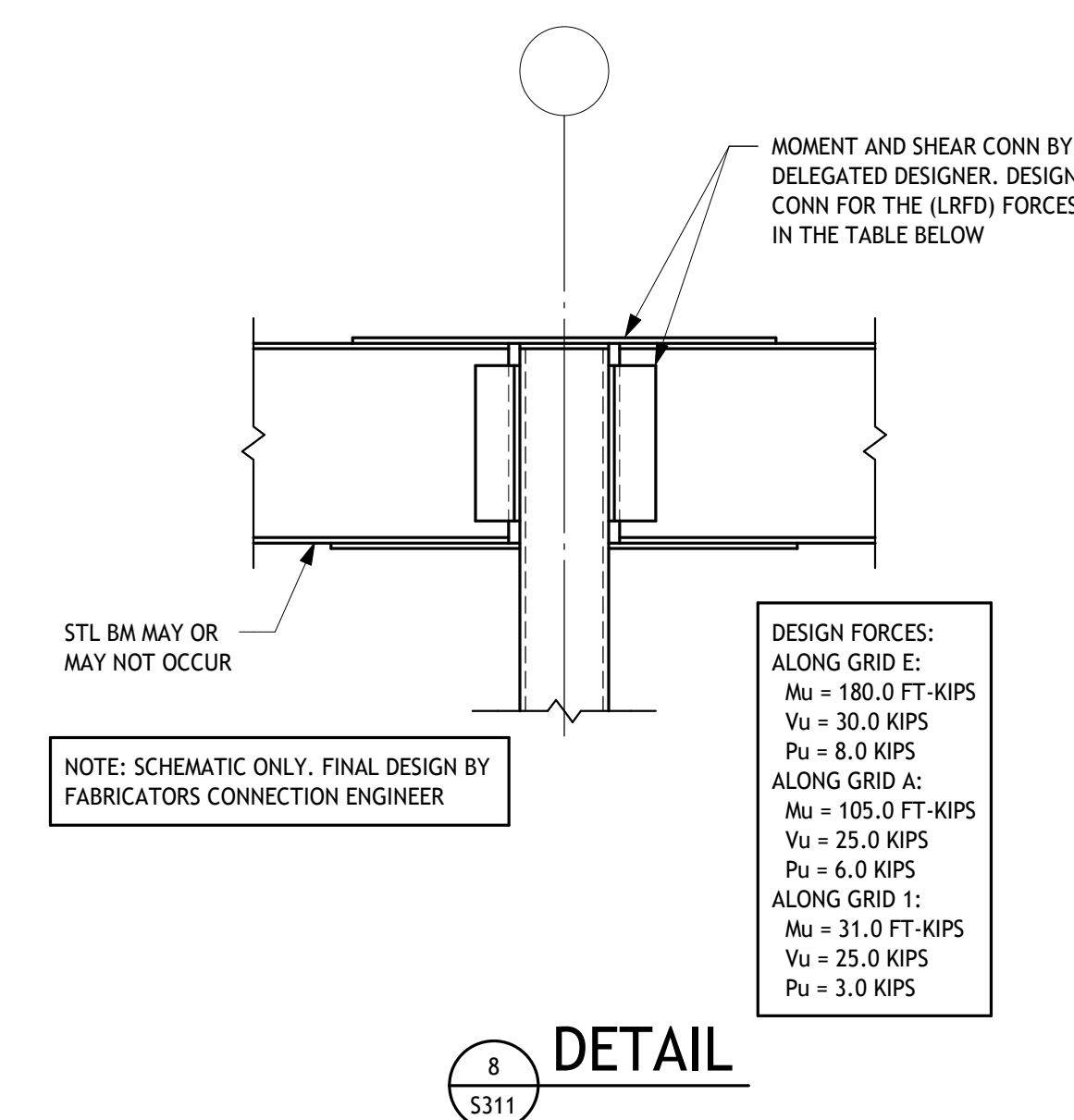
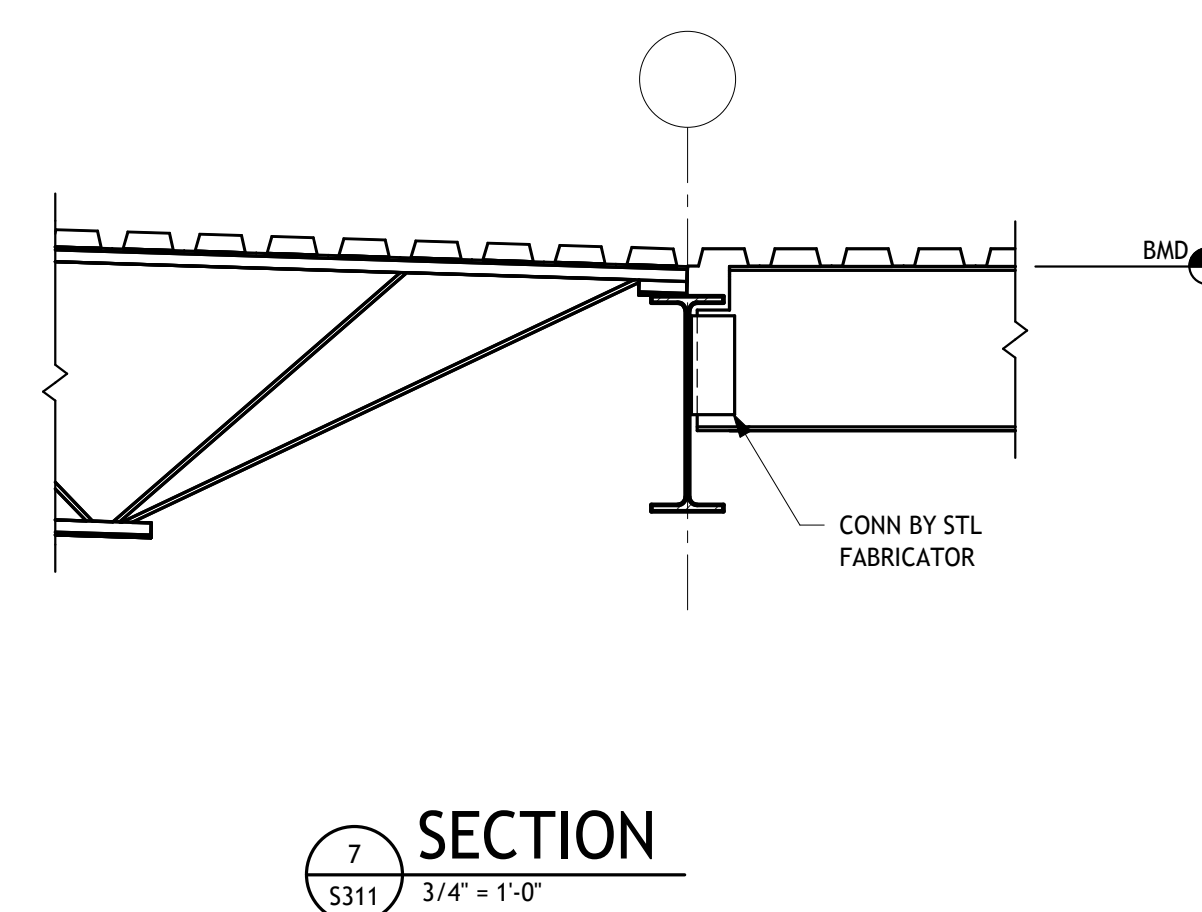
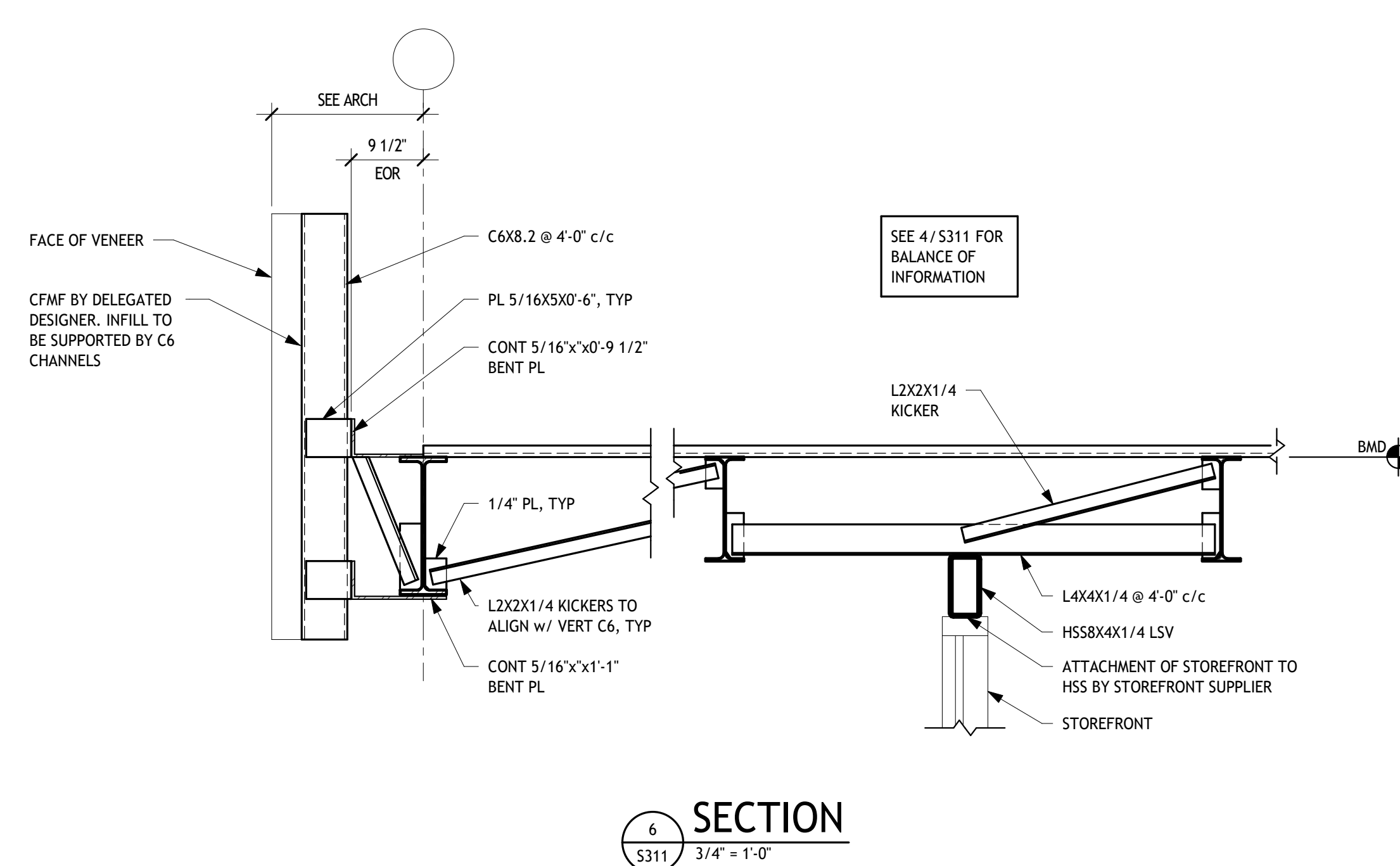
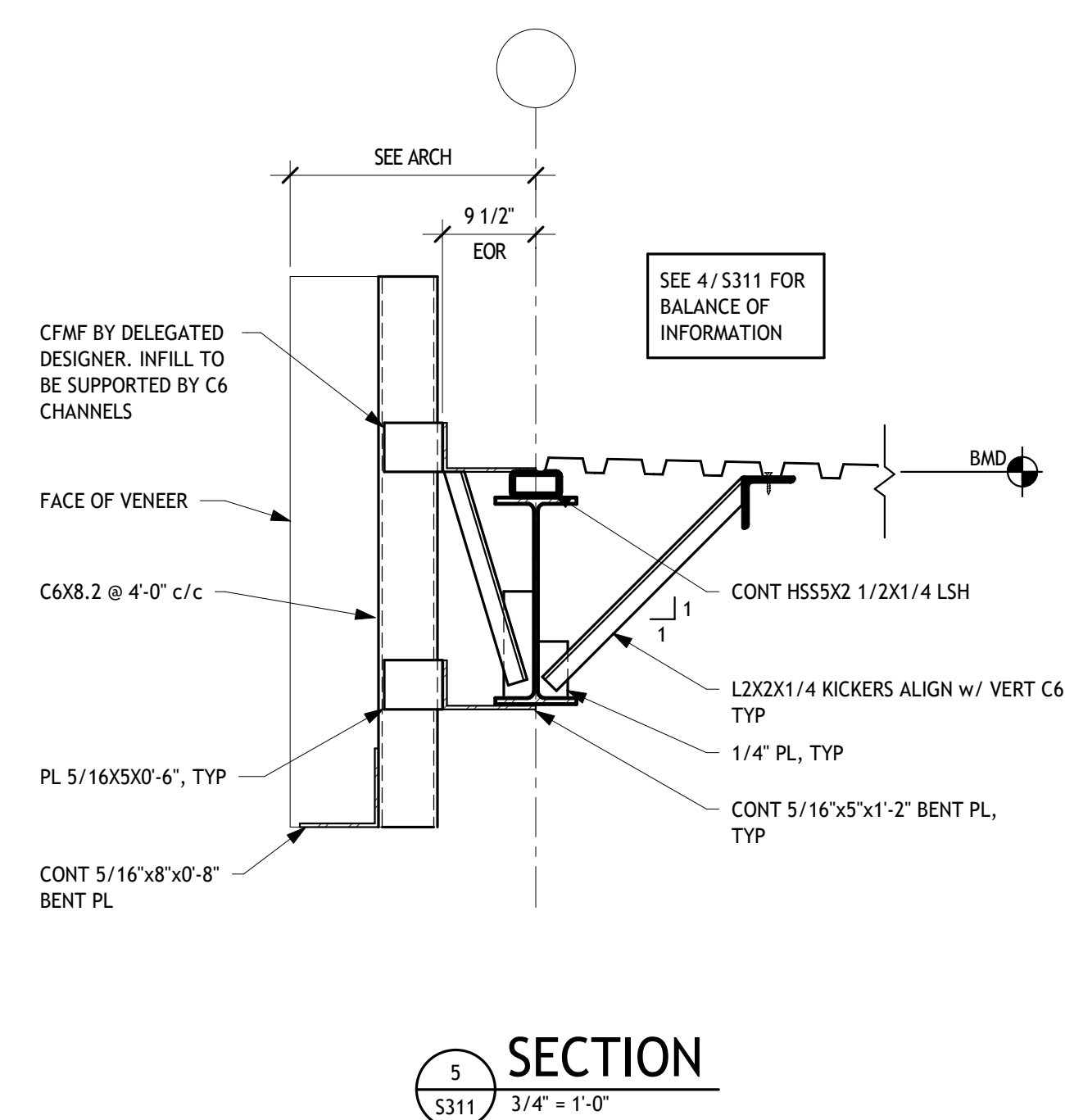
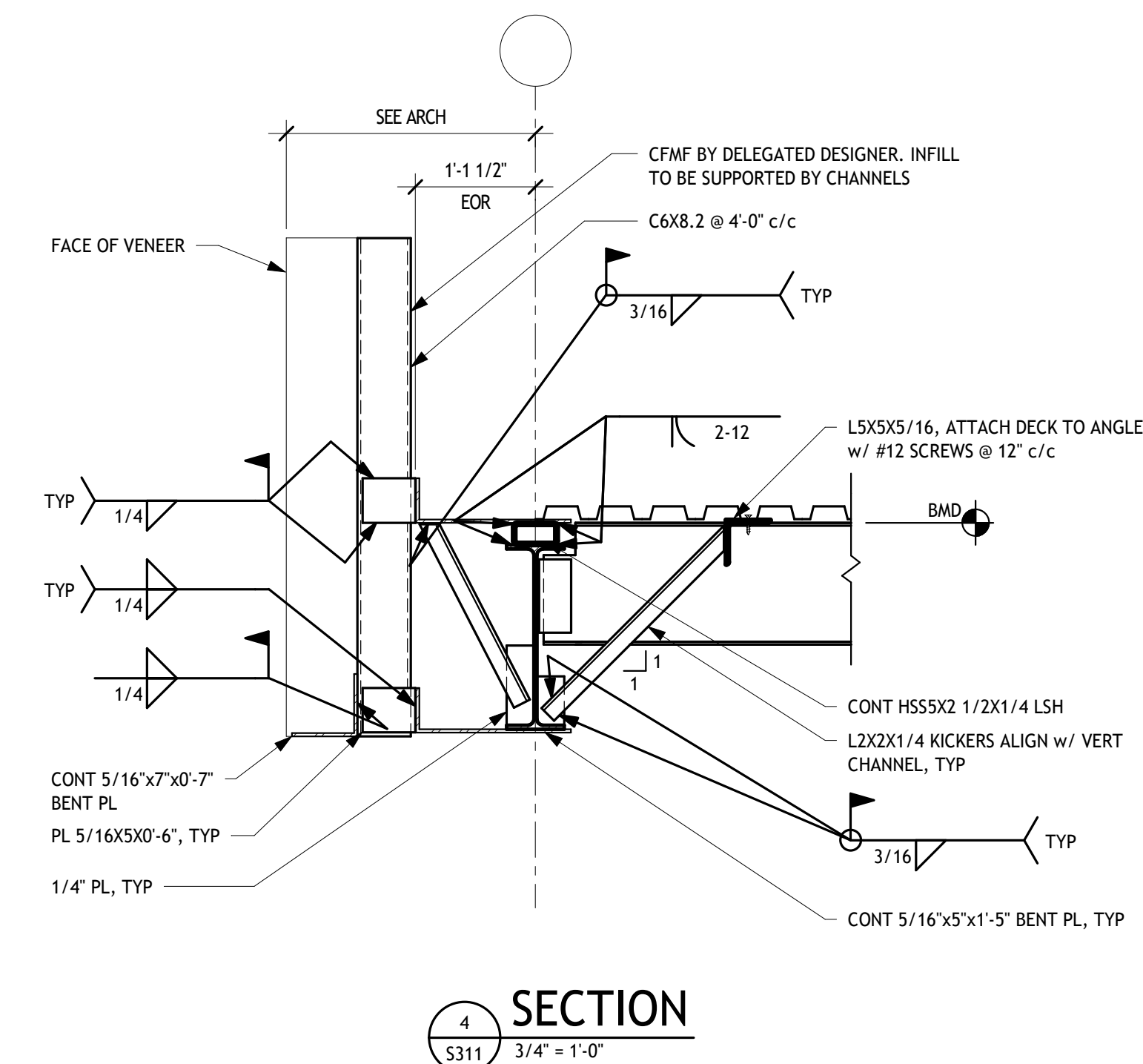
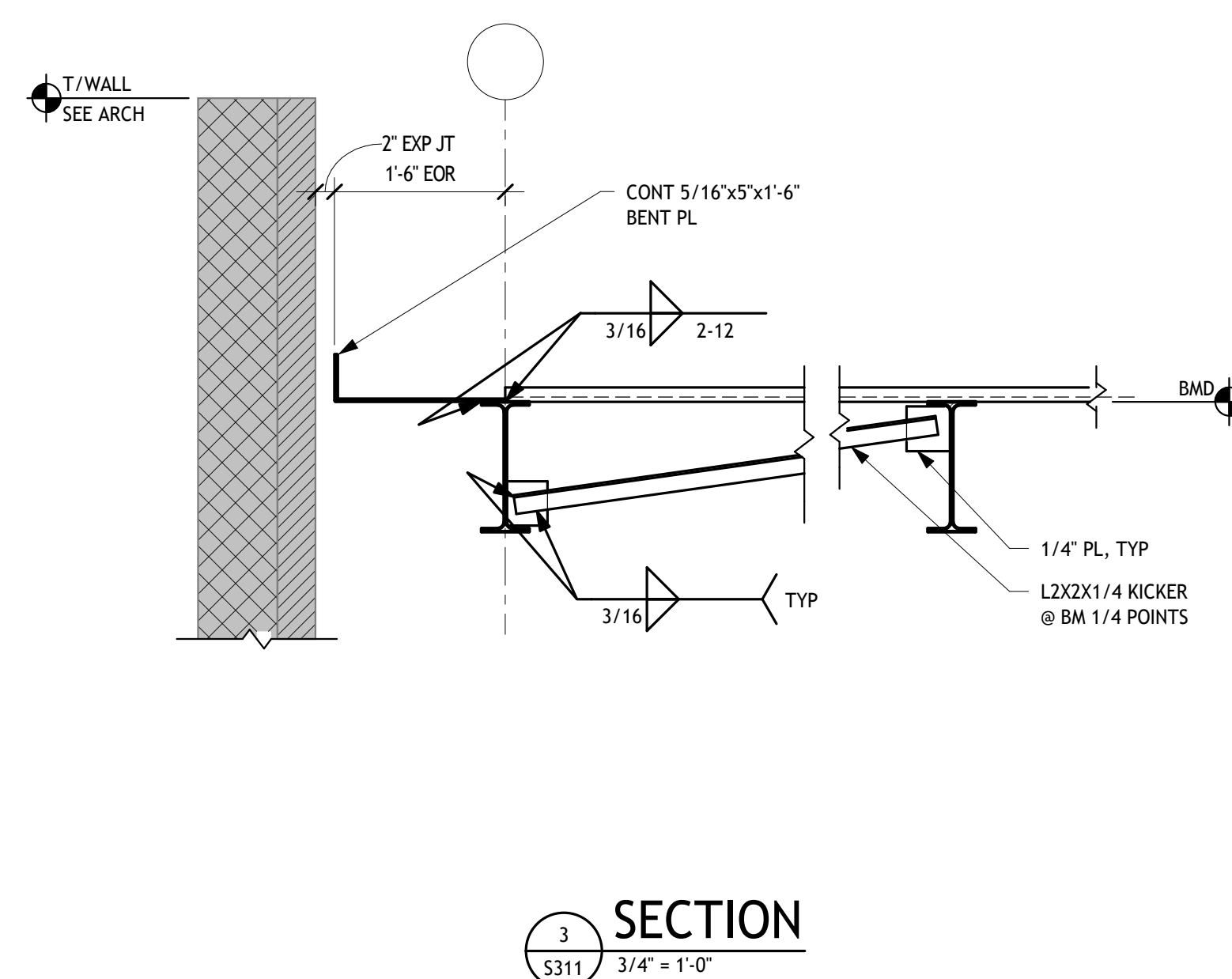
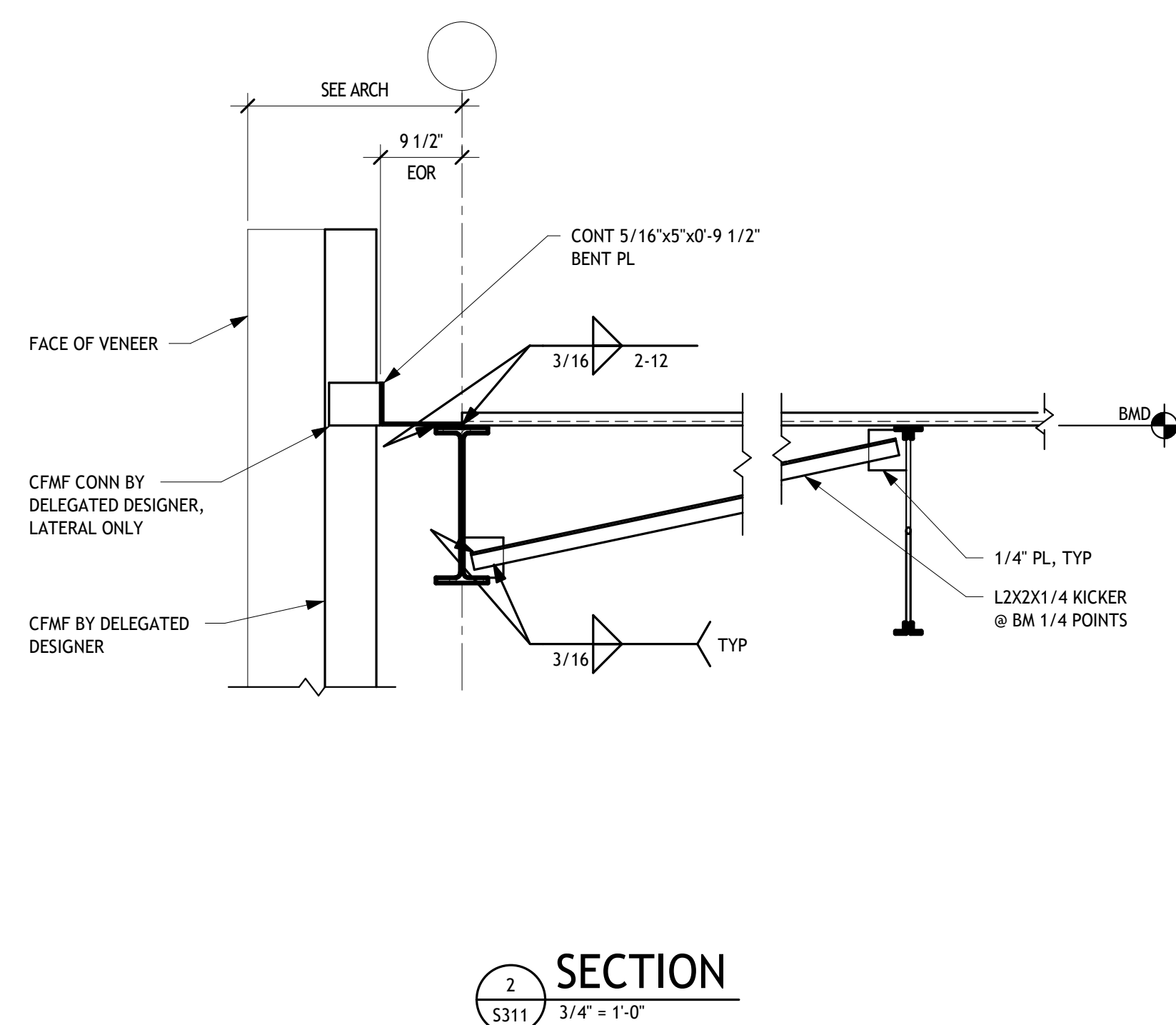
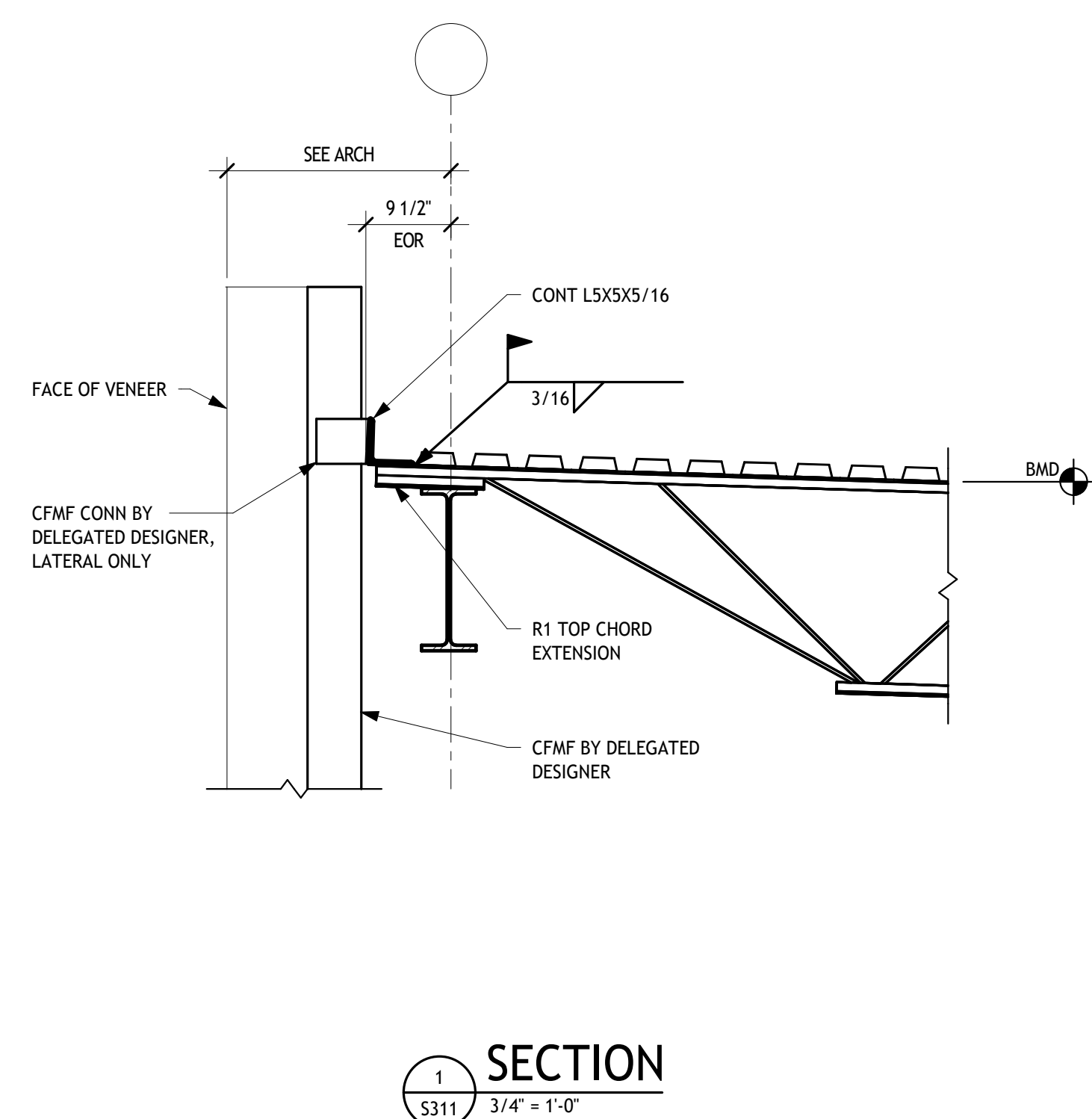
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DATE: **09/15/2026**

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FOUNDATION DETAILS
AND SECTIONS
S301



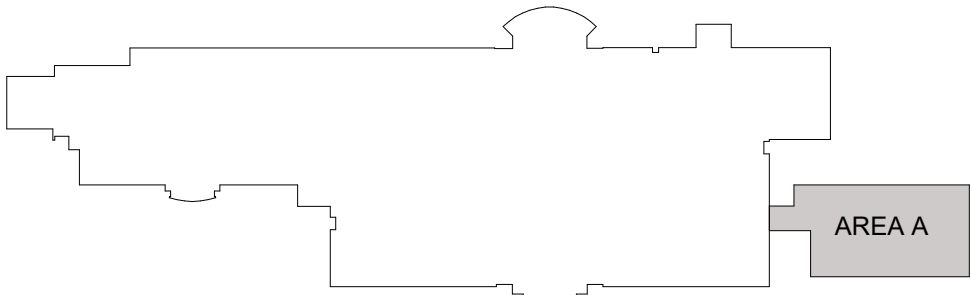


GENERAL NOTES - DEMOLITION

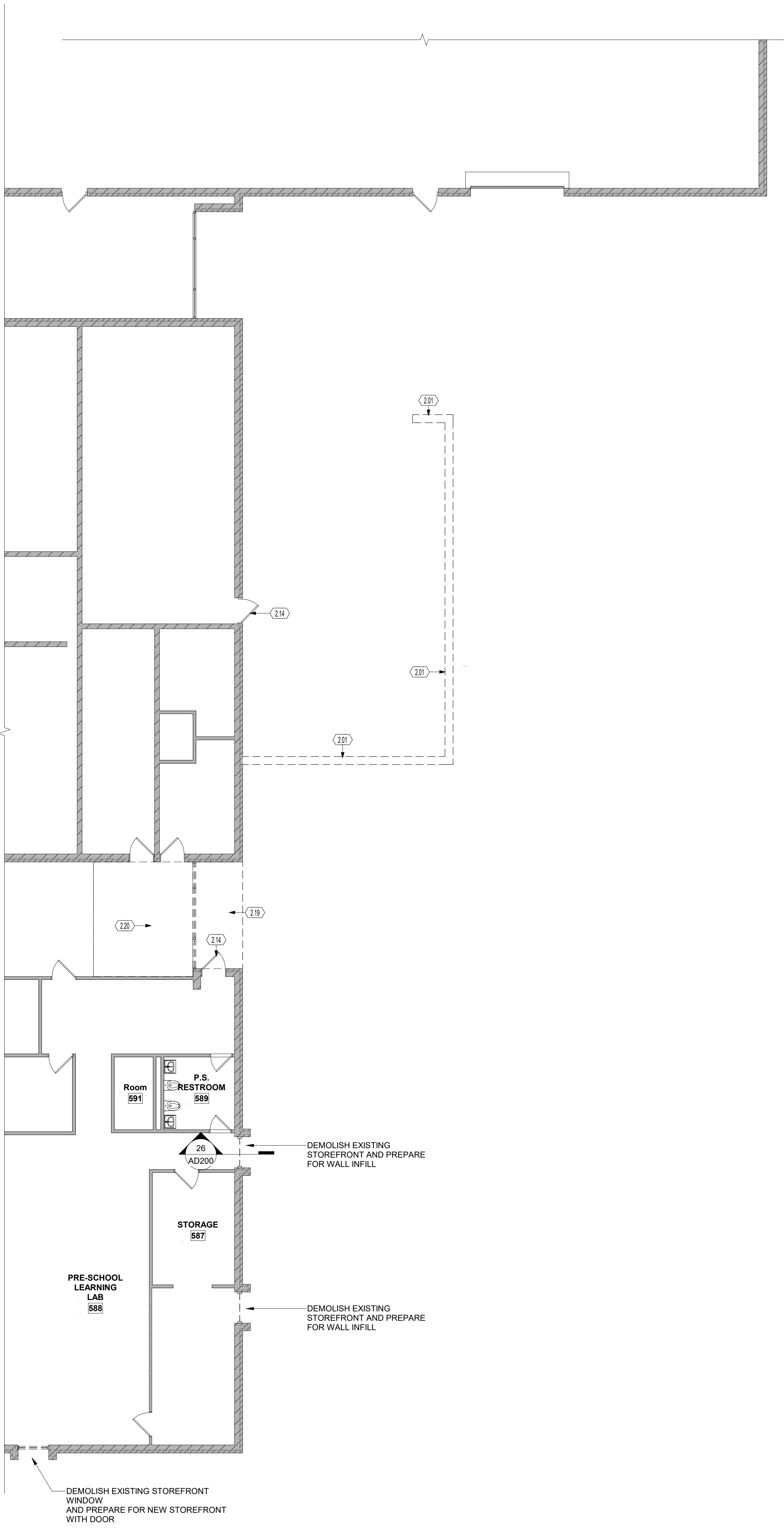
- A. PROTECT EXISTING STRUCTURE, ADJACENT WINDOWS, DOORS AND OTHER BUILDING ELEMENT DURING DEMOLITION.
- B. CONTRACTOR TO MAINTAIN ACCESS TO EXITS DURING DEMOLITION AND CONSTRUCTION.
- C. INSTALL AND ADJUST DUST BARRIERS AND WALK OFF MATS AT ALL DOORWAYS ADJACENT TO MAIN CORRIDOR. COORDINATE THE LOCATION OF ALL TEMPORARY CONSTRUCTION BARRIERS OWNER, ARCHITECT AND / OR CONSTRUCTION MANAGER. ASSUME THAT ALL CONSTRUCTION AREAS WILL REQUIRE A BARRIER BETWEEN CONSTRUCTION AND OCCUPIED SPACES. CONTRACTOR RESPONSIBLE FOR MAINTAINING PROPER EXITS AND APPROVAL BY AUTHORITIES HAVING JURISDICTION FOR THESE BARRIERS.
- D. REMOVE EXISTING PARTITIONS SHOWN W/ DASHED LINES. PROVIDE NEW FINISHES AS SCHEDULED AT ALL AREAS OF REMOVAL AND REPAIRS. WALL, CEILING AND FLOOR FINISHES TO MATCH ADJACENT SURFACES.
- E. REMOVE ALL EXISTING DOORS AND HOLLOW METAL FRAME WHERE INDICATED WITH DASHED LINES.
- F. ALL EXISTING FIRE EXTINGUISHERS TO REMAIN IN PLACE UNLESS NOTED OTHERWISE.
- G. CONTRACTOR TO PROVIDE DURABLE TEMPORARY DIRECTION SIGNS TO EXITS AND OPERABLE RESTROOMS DURING CONSTRUCTION PERIOD.
- H. PATCH/REPAIR SURFACES AS REQUIRED FOR NEW FINISH AS SCHEDULED, INCLUDING AREAS THAT WERE PREVIOUSLY OUT OF VIEW THAT ARE EXPOSED BY THIS PROJECT. MATCH EXISTING FINISHES U.N.O. THIS INCLUDES WORK BY ALL TRADES.
- I. REMOVE ALL ROOM SIGNS RELATED TO THE AREA BEING RENOVATED. PREPARE FOR NEW SIGN INSTALLATION. COORDINATE FINAL LOCATIONS AND BLOCKING REQUIREMENTS WITH THE OWNER, ARCHITECT AND / OR CONSTRUCTION MANAGER.
- J. DURING DEMOLITION AND CONSTRUCTION, LOCATE AND MAINTAIN SMOKE DETECTION DEVICES, FIRE ALARM DEVICES, FIRE EXTINGUISHERS, ILLUMINATION AND LIFE SAFETY SYSTEMS AS WOULD OTHERWISE BE REQUIRED IN AN OCCUPIED SPACE. PROTECT DETECTION DEVICES FROM ACCIDENTAL ACTIVATION DURING CONSTRUCTION BY GLOVE BAG OR OTHER APPROVED METHOD. REMOVE PROTECTION AT THE END OF WORK DAY OR SHIFT IF CONSTRUCTION AREA IS LEFT UNOCCUPIED.
- K. COORDINATE SPECIFIC EGRESS REQUIREMENTS WITH THE OWNERS REPRESENTATIVE AND THE FIRE OFFICIALS PRIOR TO COMMENCING WORK.

KEYNOTES

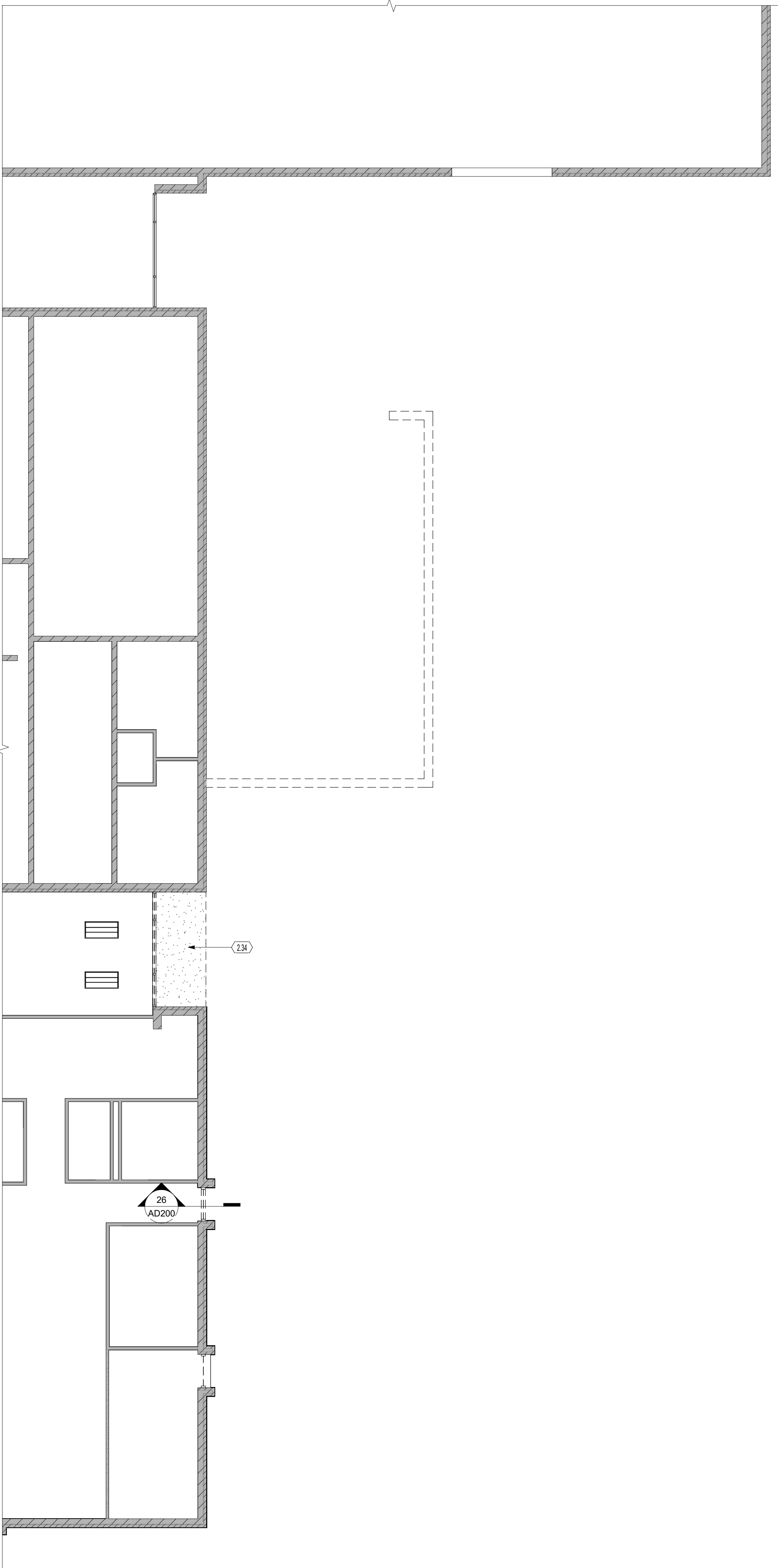
- 2.01 DEMOLISH WALL/PARTITION IN ITS ENTIRETY.
- 2.14 EXISTING DOOR, FRAME AND HARDWARE TO REMAIN.
- 2.19 REMOVE EXISTING CONCRETE FLOOR SLAB AS REQUIRED. SEE PME DRAWINGS FOR ADDITIONAL INFORMATION. NOTE: AREAS SHOWN MAY NOT INCLUDE ALL CONCRETE SLAB TO BE REMOVED. - VERIFY EXTENT REQUIRED WITH STRUCTURAL, ELECTRICAL AND PLUMBING DRAWINGS.
- 2.20 REMOVE EXISTING FLOORING INCLUDING ADHESIVE. PREP EXISTING FLOOR FOR NEW FINISH.
- 2.34



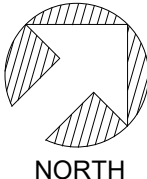
KEY PLAN



26 ENLARGED NOTED FLOOR PLAN - DEMO
SCALE | 1/8" = 1'-0"



16 REFLECTED CEILING PLAN - DEMO
SCALE | 1/8" = 1'-0"



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PROJECT #263306.00

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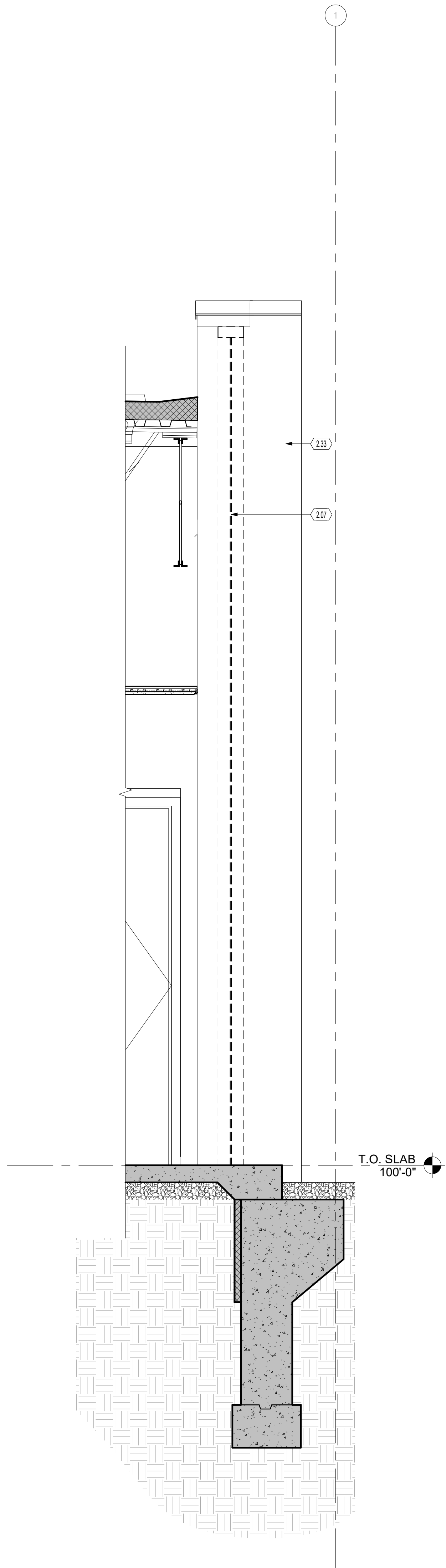
FIRST FLOOR PLAN - DEMO

AD101

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26 DEMO WALL SECTION @ EXISTING OPENING

SCALE | 3/4" = 1'-0"

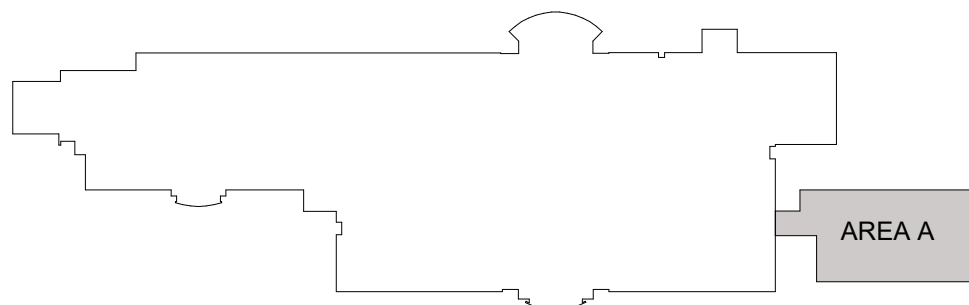


GENERAL NOTES - DEMOLITION

- A. PROTECT EXISTING STRUCTURE, ADJACENT WINDOWS, DOORS AND OTHER BUILDING ELEMENT DURING DEMOLITION.
- B. CONTRACTOR TO MAINTAIN ACCESS TO EXITS DURING DEMOLITION AND CONSTRUCTION.
- C. INSTALL AND ADJUST DUST BARRIERS AND WALK OFF MATS AT ALL DOORWAYS ADJACENT TO MAIN CORRIDOR. COORDINATE THE LOCATION OF ALL TEMPORARY CONSTRUCTION BARRIERS OWNER, ARCHITECT AND / OR CONSTRUCTION MANAGER. ASSUME THAT ALL CONSTRUCTION AREAS WILL REQUIRE A BARRIER BETWEEN CONSTRUCTION AND OCCUPIED SPACES. CONTRACTOR RESPONSIBLE FOR MAINTAINING PROPER EXISTS AND APPROVAL BY AUTHORITIES HAVING JURISDICTION FOR THESE BARRIERS.
- D. REMOVE EXISTING PARTITIONS SHOWN W/ DASHED LINES. PROVIDE NEW FINISHES AS SCHEDULED AT ALL AREAS OF REMOVAL AND REPAIRS. WALL, CEILING AND FLOOR FINISHES TO MATCH ADJACENT SURFACES.
- E. REMOVE ALL EXISTING DOORS AND HOLLOW METAL FRAME WHERE INDICATED WITH DASHED LINES.
- F. ALL EXISTING FIRE EXTINGUISHERS TO REMAIN IN PLACE UNLESS NOTED OTHERWISE.
- G. CONTRACTOR TO PROVIDE DURABLE TEMPORARY DIRECTION SIGNS TO EXITS AND OPERABLE RESTROOMS DURING CONSTRUCTION PERIOD.
- H. PATCH/REPAIR SURFACES AS REQUIRED FOR NEW FINISH AS SCHEDULED, INCLUDING AREAS THAT WERE PREVIOUSLY OUT OF VIEW THAT ARE EXPOSED BY THIS PROJECT. MATCH EXISTING FINISHES U.N.O. THIS INCLUDES WORK BY ALL TRADES.
- I. REMOVE ALL ROOM SIGNS RELATED TO THE AREA BEING RENOVATED. PREPARE FOR NEW SIGN INSTALLATION. COORDINATE FINAL LOCATIONS AND BLOCKING REQUIREMENTS WITH THE OWNER, ARCHITECT AND / OR CONSTRUCTION MANAGER.
- J. DURING DEMOLITION AND CONSTRUCTION, LOCATE AND MAINTAIN SMOKE DETECTION DEVICES, FIRE ALARM DEVICES, FIRE EXTINGUISHERS, ILLUMINATION AND LIFE SAFETY SYSTEMS AS WOULD OTHERWISE BE REQUIRED IN AN OCCUPIED SPACE. PROTECT DETECTION DEVICES FROM ACCIDENTAL ACTIVATION DURING CONSTRUCTION BY GLOVE BAG OR OTHER APPROVED METHOD. REMOVE PROTECTION AT THE END OF WORK DAY OR SHIFT IF CONSTRUCTION AREA IS LEFT UNOCCUPIED.
- K. COORDINATE SPECIFIC EGRESS REQUIREMENTS WITH THE OWNERS REPRESENTATIVE AND THE FIRE OFFICIALS PRIOR TO COMMENCING WORK.

KEYNOTES

- 2.07 REMOVE EXISTING STOREFRONT SYSTEM AND GLAZING IN ITS ENTIRETY.
- 2.33



KEY PLAN

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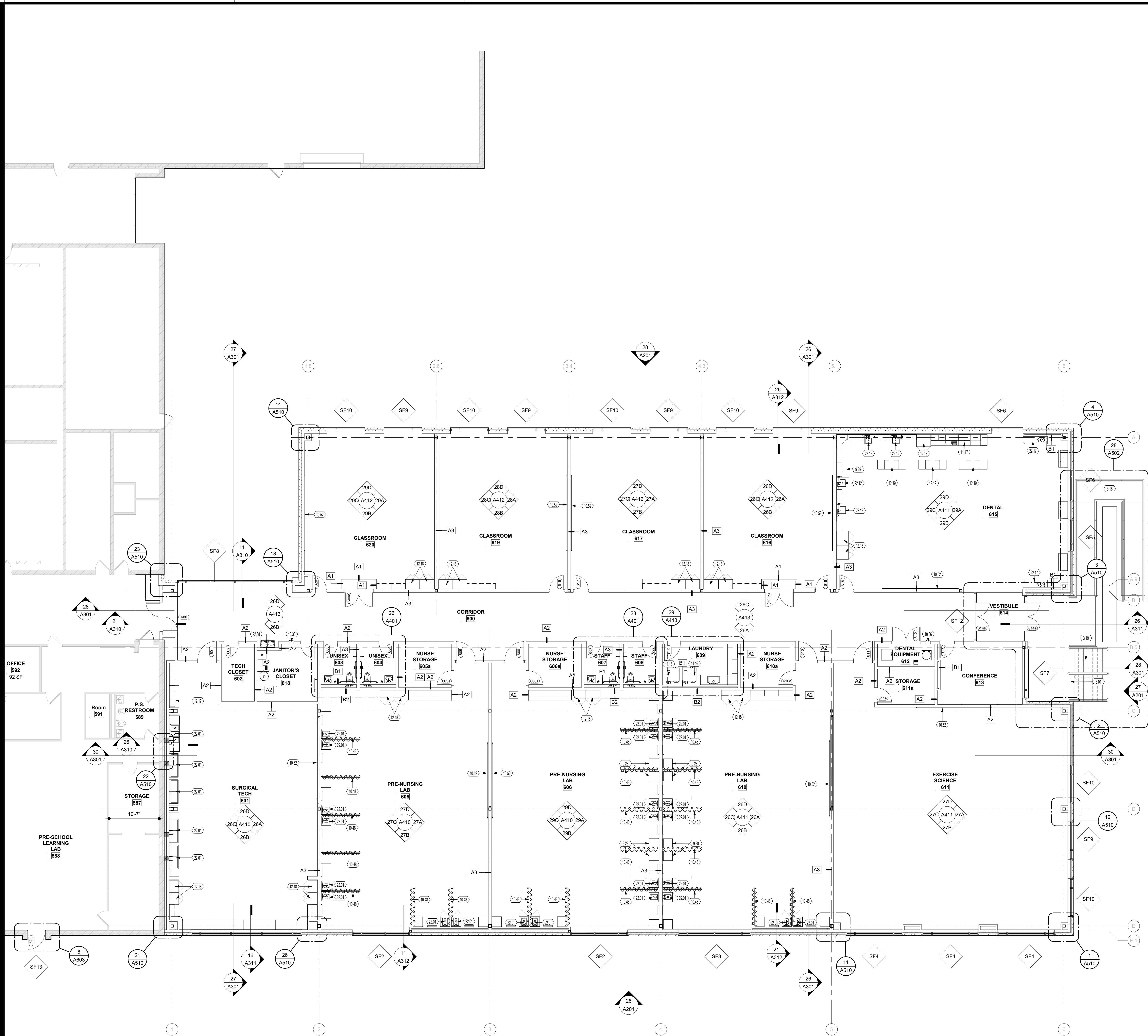
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F: 937.224.3091

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DEMOLITION DETAILS
AND SECTIONS

AD200

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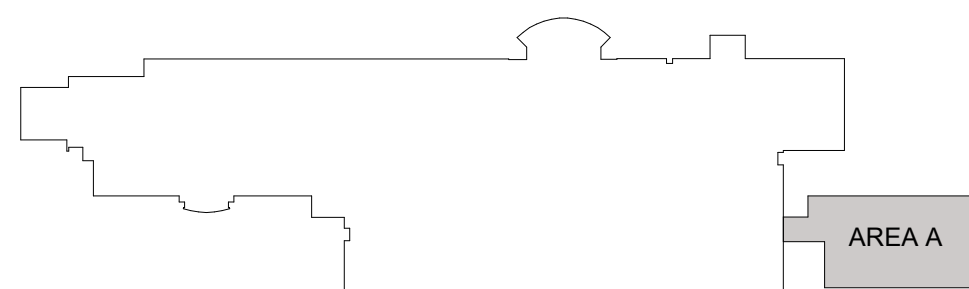
26 ENLARGED NOTED FLOOR PLAN
SCALE | 1/8" = 1'-0"

GENERAL NOTES - FLOOR PLAN

- A. SEE SHEET G002 FOR TYPICAL MOUNTING HEIGHTS.
- B. ALL TWO-SIDED NEW INTERIOR PARTITIONS ARE A-1 UNLESS NOTED OTHERWISE.
- C. COORDINATE FINAL PLACEMENT OF ALL WALL MOUNTED EQUIPMENT WITH SIGNAGE.
- D. PRIOR TO GYPSUM BOARD INSTALLATION AND ELECTRICAL ROUGH-IN INSPECTION, GENERAL CONTRACTORS, ELECTRICAL/DATA CONTRACTORS, ARCHITECT, AND CONSTRUCTION MANAGER SHALL REVIEW IN-PLACE LOCATIONS OF ALL SWITCH BOXES, RECEPTACLE BOXES, FIRE ALARM BOXES, ETC. FINAL LOCATIONS MAY BE ADJUSTED AT THIS TIME TO ALIGN OR COORDINATE WITH DESIGN INTENT.
- E. ALL WALLS ARE FULL HEIGHT TO DECK ABOVE, UNLESS NOTED OTHERWISE.
- F. CG = CORNERGUARD MOUNTED DIRECTLY ABOVE THE BASE. CORNER GUARDS TO BE INSTALLED WHERE NOTED.
- G. CONTRACTOR TO PROVIDE WOOD BLOCKING BACK-UP IN ALL STUD WALL ASSEMBLIES AS REQUIRED FOR MOUNTING OF ALL WALL HUNG ACCESSORIES, HUNG FIXTURES, VISUAL DISPLAYS, ETC. COORDINATE WITH OWNER PROVIDED EQUIPMENT AND LOCATIONS.
- H. FOR FURNITURE LAYOUT, SEE FURNITURE PLAN.
- I. FOR WINDOW ELEVATIONS, SEE GLAZING SHEET

KEYNOTES

- 3.01 NEW CONCRETE FLOOR SYSTEM. SEE STRUCTURAL DRAWINGS.
- 3.18 ADA CONCRETE RAMP AND SST HANDRAIL.
- 3.19 CONCRETE STAIRS AND SST HANDRAIL.
- 9.28 SOLID SURFACE COUNTERTOP. SEE SCHEDULE.
- 9.29 EPOXY COUNTERTOP. SEE SCHEDULE.
- 10.36 FIRE EXTINGUISHER FULLY RECESSED CABINET.
- 10.48 CEILING MOUNTED ALUMINUM TRACK AND CURTAIN SYSTEM.
- 10.52 4' X 16" MAGNETIC PORCELAIN WHITE BOARD.
- 11.16 WASHER/DRYER. SEE ELECTRICAL/PLUMBING DRAWINGS.
- 11.17 RELOCATED EXISTING DENTAL CASEWORK.
- 12.17 SOLID SURFACE COUNTERTOP WITH CONCEALED SUPPORT BRACKETS.
- 12.18 FULL-HEIGHT PLASTIC LAMINATE STORAGE CABINET.
- 12.19 EXISTING DENTAL CABINET.
- 22.01 SOLID SURFACE COUNTERTOP AND UNDERMOUNT SINK, WITH PLASTIC LAMINATE SINK BASE.
- 22.08 H/L/W DRINKING FOUNTAIN WITH BOTTLE FILLERS PER ADA GUIDELINES. SEE PLUMBING DRAWINGS.
- 22.12 UNDERMOUNT STAINLESS SINK. SEE PLUMBING DRAWINGS.
- 22.17 DENTAL WORK STATION. SEE PLUMBING DRAWINGS.



KEY PLAN

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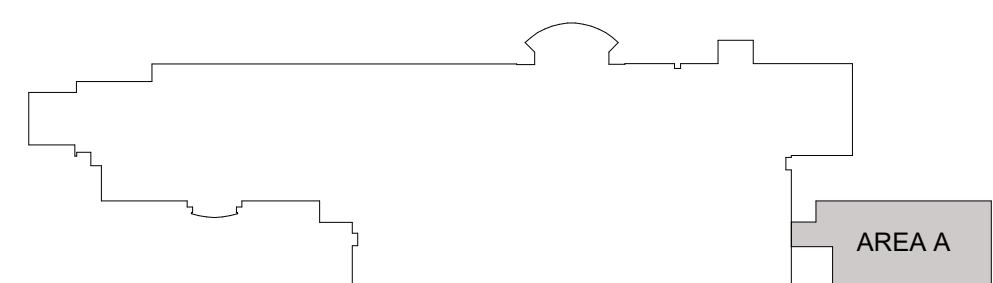
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FIRST FLOOR PLAN

A101

- A. SEE SHEET G002 FOR TYPICAL MOUNTING HEIGHTS.
- B. ALL TWO-SIDED NEW INTERIOR PARTITIONS ARE A-1 UNLESS NOTED OTHERWISE.
- C. COORDINATE FINAL PLACEMENT OF ALL WALL MOUNTED EQUIPMENT WITH SIGNAGE.
- D. PRIOR TO GYPSUM BOARD INSTALLATION AND ELECTRICAL ROUGH-IN INSPECTION, GENERAL CONTRACTORS, ELECTRICAL/DATA CONTRACTORS, ARCHITECT, AND CONSTRUCTION MANAGER SHALL REVIEW IN-PLACE LOCATIONS OF ALL SWITCH BOXES, RECEPTACLE BOXES, FIRE ALARM BOXES, ETC. FINAL LOCATIONS MAY BE ADJUSTED AT THIS TIME TO ALIGN OR COORDINATE WITH DESIGN INTENT.
- E. ALL WALLS ARE FULL HEIGHT TO DECK ABOVE, UNLESS NOTED OTHERWISE.
- F. CG = CORNERGUARD MOUNTED DIRECTLY ABOVE THE BASE. CORNER GUARDS TO BE INSTALLED WHERE NOTED.
- G. CONTRACTOR TO PROVIDE WOOD BLOCKING BACK-UP IN ALL STUD WALL ASSEMBLIES AS REQUIRED FOR MOUNTING OF ALL WALL HUNG ACCESSORIES, HUNG CURTAINS, VIDEO DISPLAYS, ETC. COORDINATE WITH OWNER PROVIDED EQUIPMENT AND LOCATIONS.
- H. FOR FURNITURE LAYOUT, SEE FURNITURE PLAN.
- I. FOR WINDOW ELEVATIONS, SEE GLAZING SHEET.



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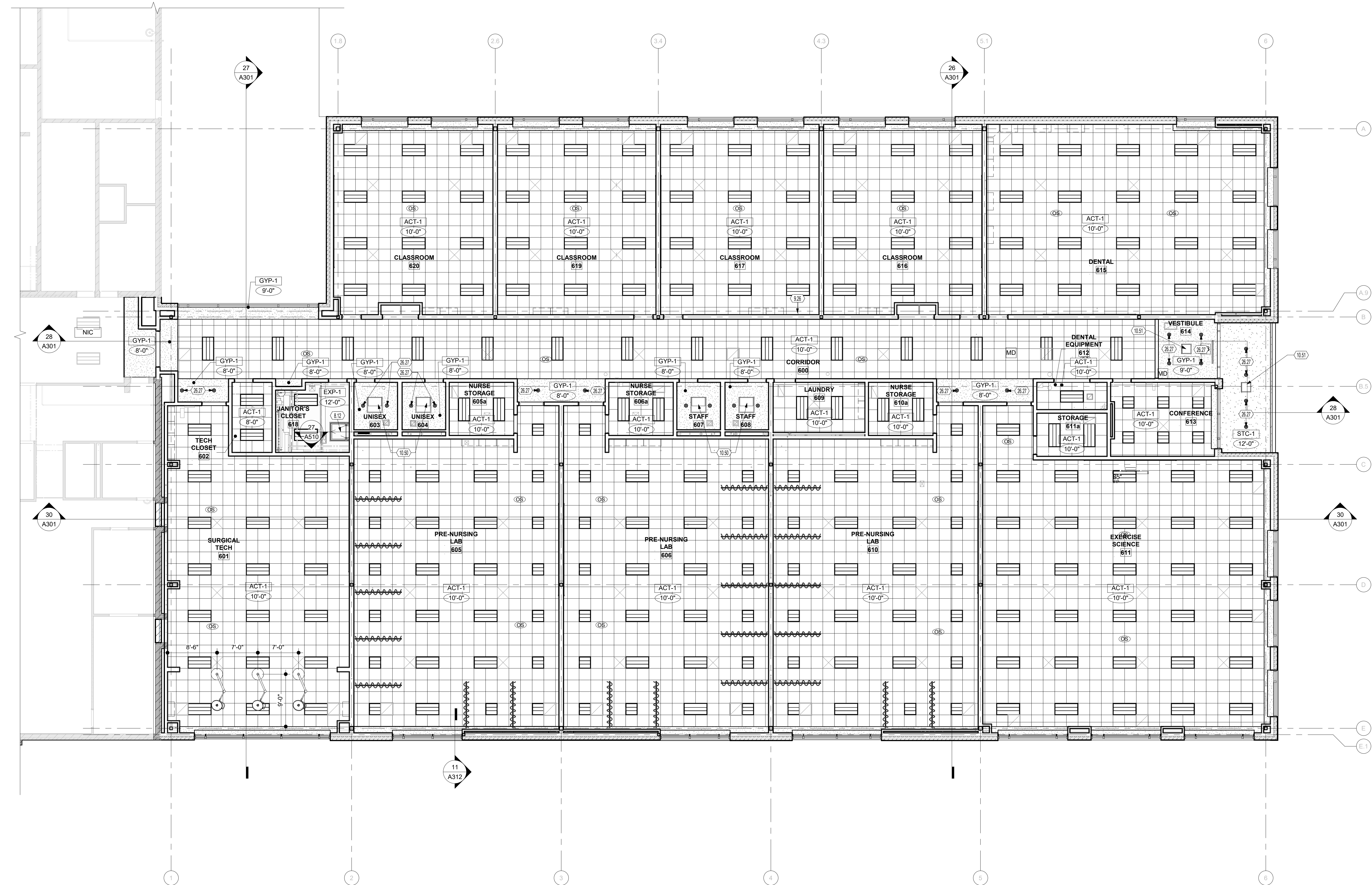
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FIRST FLOOR
DIMENSION PLAN

A102



26 REFLECTED CEILING PLAN
SCALE | 1/8" = 1'-0"

GENERAL NOTES - CEILING

- A. EXTEND ALL FRAMING TO STRUCTURE U.N.O.
- B. PROVIDE ACOUSTICAL SEALANT AT ALL SOFFIT LOCATIONS THAT EXTEND TO DECK.
- C. SEE G-002 FOR PROJECT GENERAL REQUIREMENTS AND CEILING LEGEND.
- D. ALL CEILING TILE TO BE CENTERED IN ROOM AND AT LEAST 6" OR GRATER IN SIZE UNLESS NOTED OTHERWISE.
- E. REFER TO ADDITIONAL TRADES FOR ITEMS NOT SHOWN ON THESE DRAWINGS.
- F. ALL PLASTER AND GYP. CEILINGS TO BE FINISHED AND PAINTED U.N.O.
- G. CEILING DEVICES TO BE COORDINATED TO MATCH CEILING COLOR.

KEYNOTES

- 8.12 30" X 36" ROOF HATCH. REFER TO DETAILS.
- 9.26 NO CEILING IN THIS AREA. PAINT ALL EXPOSED STRUCTURE, HVAC, AND CONDUIT. SEE FINISH SCHEDULE.
- 10.50 ACCESS PANEL WITH SCREWDRIVER LATCH.
- 10.51 24" X 24" ACCESS PANEL WITH LOCK. PAINT TO MATCH CEILING.
- 26.27 6" RECESSED CAN. SEE ELECTRICAL DRAWINGS.

CEILING LEGEND

- 2' x 2' ACOUSTICAL CEILING
- 2' x 4' ACOUSTICAL CEILING
- EXPOSED STRUCTURE
- STUCCO CEILING
- GYP SUM BOARD CEILING
- SOFFIT
- RETURN GRILLE
- SUPPLY GRILLE
- 2' x 4' RECESSED LIGHTING FIXTURE
- 2' x 2' RECESSED LIGHTING FIXTURE
- OCCUPANCY SENSOR
- EXIT SIGN



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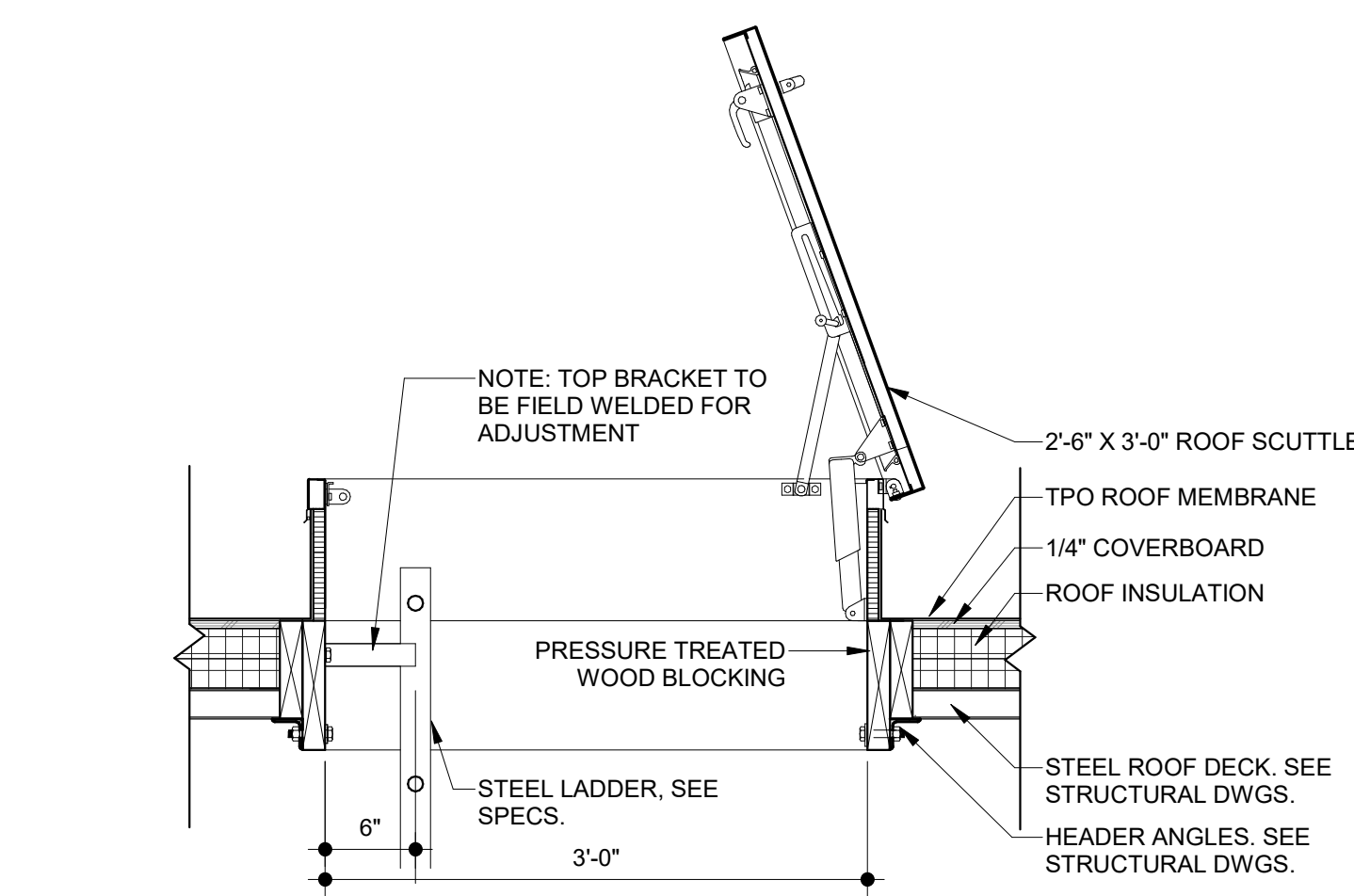
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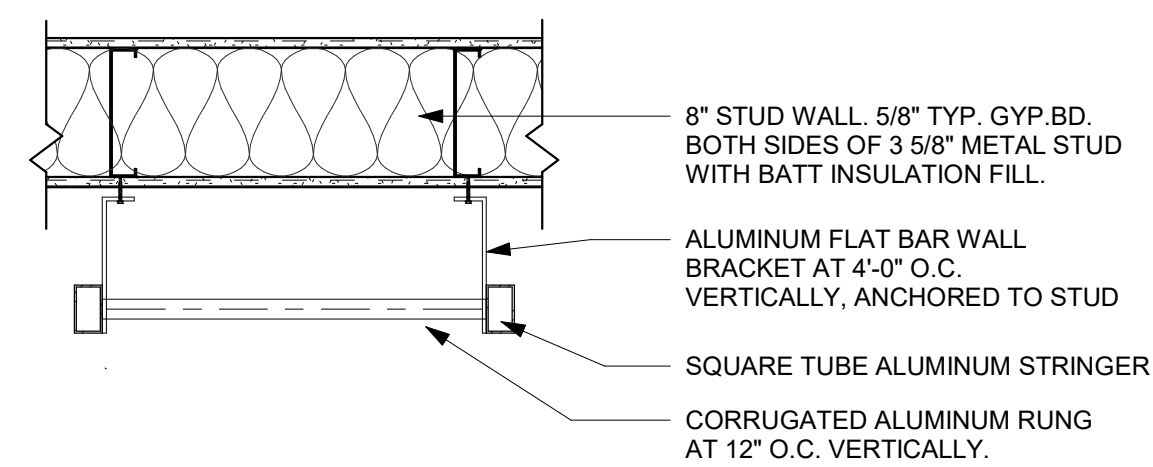
REFLECTED CEILING
PLAN

A121



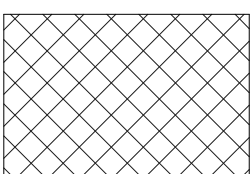
2 ROOF HATCH

SCALE | 1" = 1'-0"



3 ROOF ACCESS LADDER DETAIL

- A. REFER TO PME DRAWINGS FOR ROOF MOUNTED EQUIPMENT.
- B. COORDINATE RIDGE AND VALLEYS WITH STRUCTURAL DRAWINGS. MAINTAIN MINIMUM 1/4" PER FOOT SLOPE.
- C. COORDINATE ROOF PENETRATIONS WITH PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS.
- D. ALL FLASHING BOOTS AND OTHER ROOFING ACCESSORIES REQUIRED FOR PENETRATION SHALL BE PROVIDED BY THE ROOFING CONTRACTOR.



HATCH INDICATES TAPERED POLYISO INSULATION OVER
POLYISO INSULATION. PROVIDE MIN. 1/4" PER FOOT
SLOPE TO DRAIN.
AREA OF TAPERED INSULATION MIN 1/4" PER FOOT.

7.3.31 ROOF DRAIN AND OVERFLOW DRAIN.
7.3.34 TPO ROOFING SYSTEM OVER RIGID POLYISO INSULATION. PROVIDE COMPLETE DRAINAGE SYSTEM AND FLASHINGS IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
7.3.35 PRE-FINISHED METAL COPING.
7.3.36 2" EXPANSION JOINT WITH PRE-FINISHED CAP FLASHING.
7.3.37 ROOF TOP MECHANICAL EQUIPMENT ON INTEGRAL CURB. SEE MECHANICAL DRAWINGS.
7.3.38 NEW PRE-FINISHED METAL COPING PARAPET CAP OVER EXISTING MASONRY PARAPET. PROVIDE FLASHING, SEALANTS, AND TRANSITION DETAILS REQUIRED FOR A WEATHER-TIGHT CONDITION. THE NEW PARAPET CONSTRUCTION INCLUDES PARAPET FLASHING WHERE REQUIRED.
7.3.39 EXISTING EXTERIOR OVERFLOW SCUPPER TO REMAIN.
8.1.30 30" X 36" ROOF HATCH. REFER TO DETAILS.

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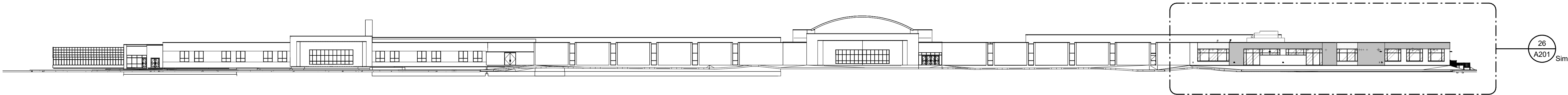
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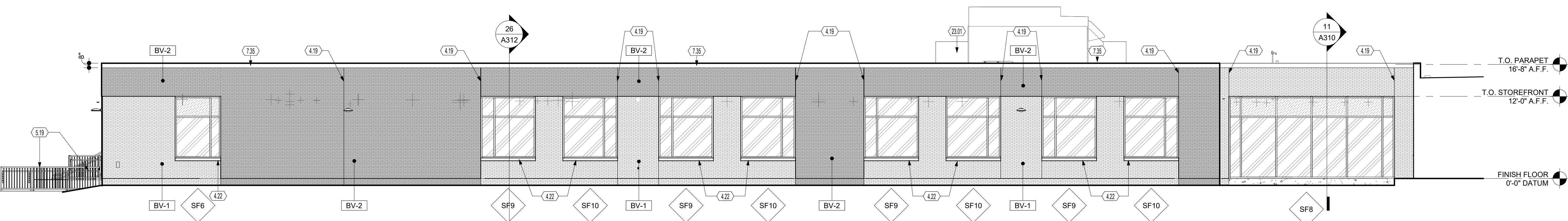


ROOF PLAN

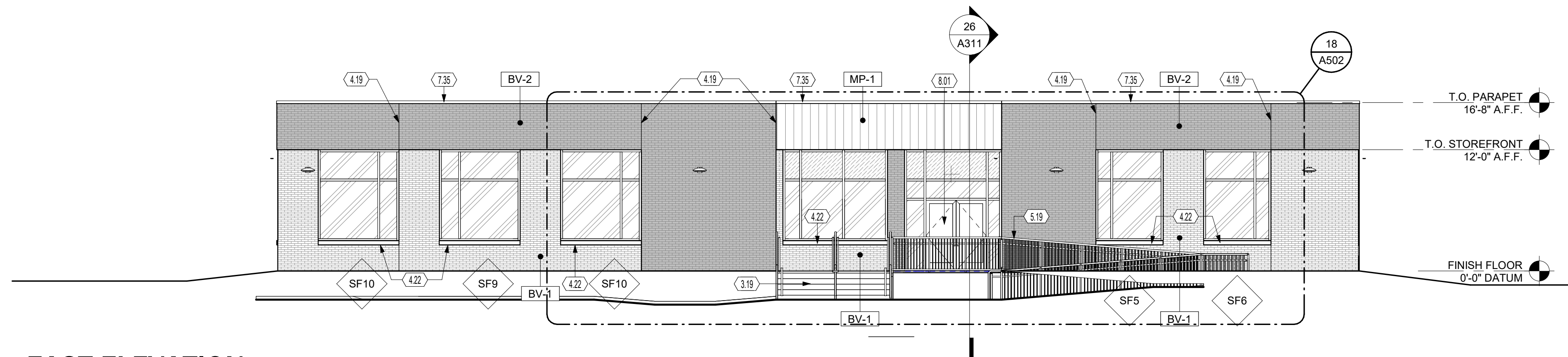
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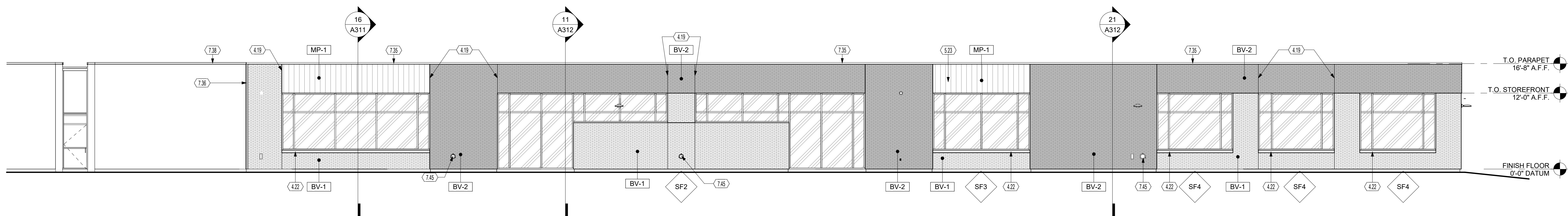
30 OVERALL SOUTH ELEVATION
SCALE | 1" = 40'-0"



28 NORTH ELEVATION
SCALE | 1/8" = 1'-0"



27 EAST ELEVATION
SCALE | 1/8" = 1'-0"



26 SOUTH ELEVATION
SCALE | 1/8" = 1'-0"

GENERAL NOTES - ELEVATION

A. SEE G-002 FOR PROJECT GENERAL REQUIREMENTS.

KEYNOTES

- 3.19 CONCRETE STAIRS AND SST HANDRAIL.
4.19 BRICK VENEER CONTROL JOINT.
4.22 LIMESTONE WINDOW SILL.
5.19 STEEL HANDRAIL. REFER TO DETAILS.
5.23 FLAT PROFILE, DEEP FORMED METAL PANEL W/ CONCEALED FASTENERS.
7.35 PRE-FINISHED METAL COPING.
7.36 2" EXPANSION JOINT WITH PRE-FINISHED CAP FLASHING.
7.38 NEW PRE-FINISHED METAL COPING PARAPET CAP OVER EXISTING MASONRY PARAPET. PROVIDE FLASHING, SEALANTS, AND TRANSITION DETAILS AS REQUIRED FOR A WEATHER-TIGHT CONDITION. TIE NEW PARAPET CONSTRUCTION INTO EXISTING PARAPET WHERE REQUIRED.
7.45 OVERFLOW SCUPPER.
8.01 PRE-FINISHED ALUMINUM STOREFRONT SYSTEM WITH 1" INSULATED GLAZING.
23.01 ROOF TOP HVAC, SEE MECHANICAL DRAWINGS.

GLAZING LEGEND

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

GL1 - 1" LOW-E COATED, CLEAR, INSULATING GLASS

GL4 - 1/4" CLEAR GLASS (SF)

SP1 - INSULATED INFILL PANEL

FINISH MATERIAL SCHEDULE					
KEY NAME	DESCRIPTION	BASIS OF DESIGN	MODEL NAME / COLOR / MODEL NUMBER	SIZE	COMMENTS
EXTERIOR					
BV-1	BRICK VENEER	US BRICK	TEAKWOOD VELOUR	-	
BV-2	BRICK VENEER	-	-	-	
LS-1	LIMESTONE SILL	-	-	-	
MP-1	ACM METAL PANEL	DIMENSIONAL METALS, INC.	FLUSH PANEL 8" FP1008	-	
STC-1	STUCCO MATERIAL	-	-	-	



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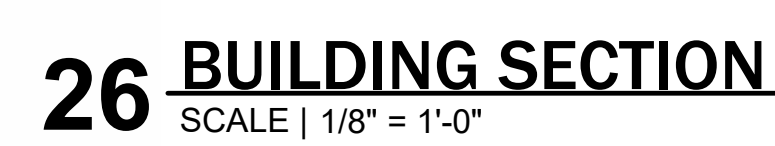
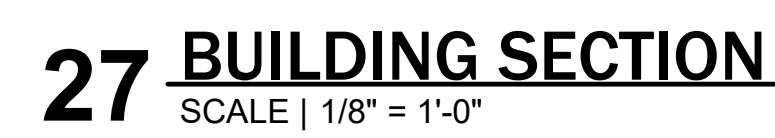
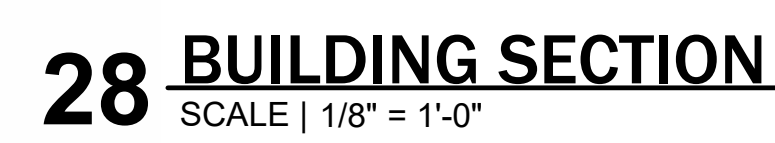
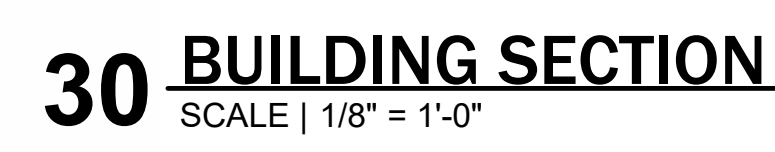
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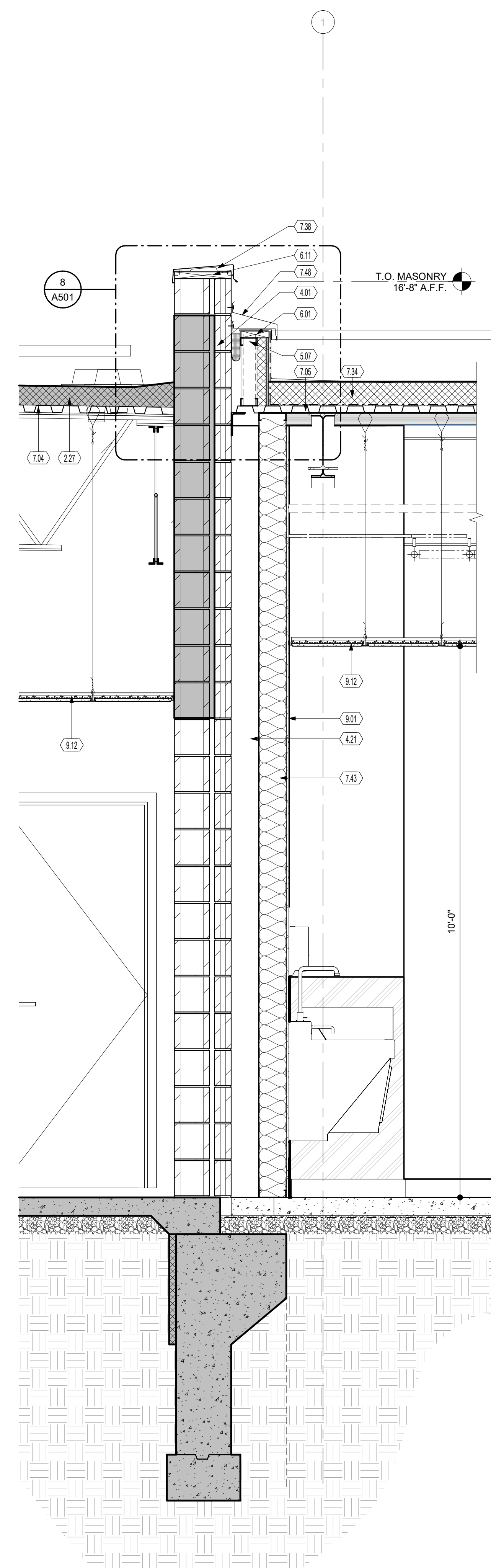
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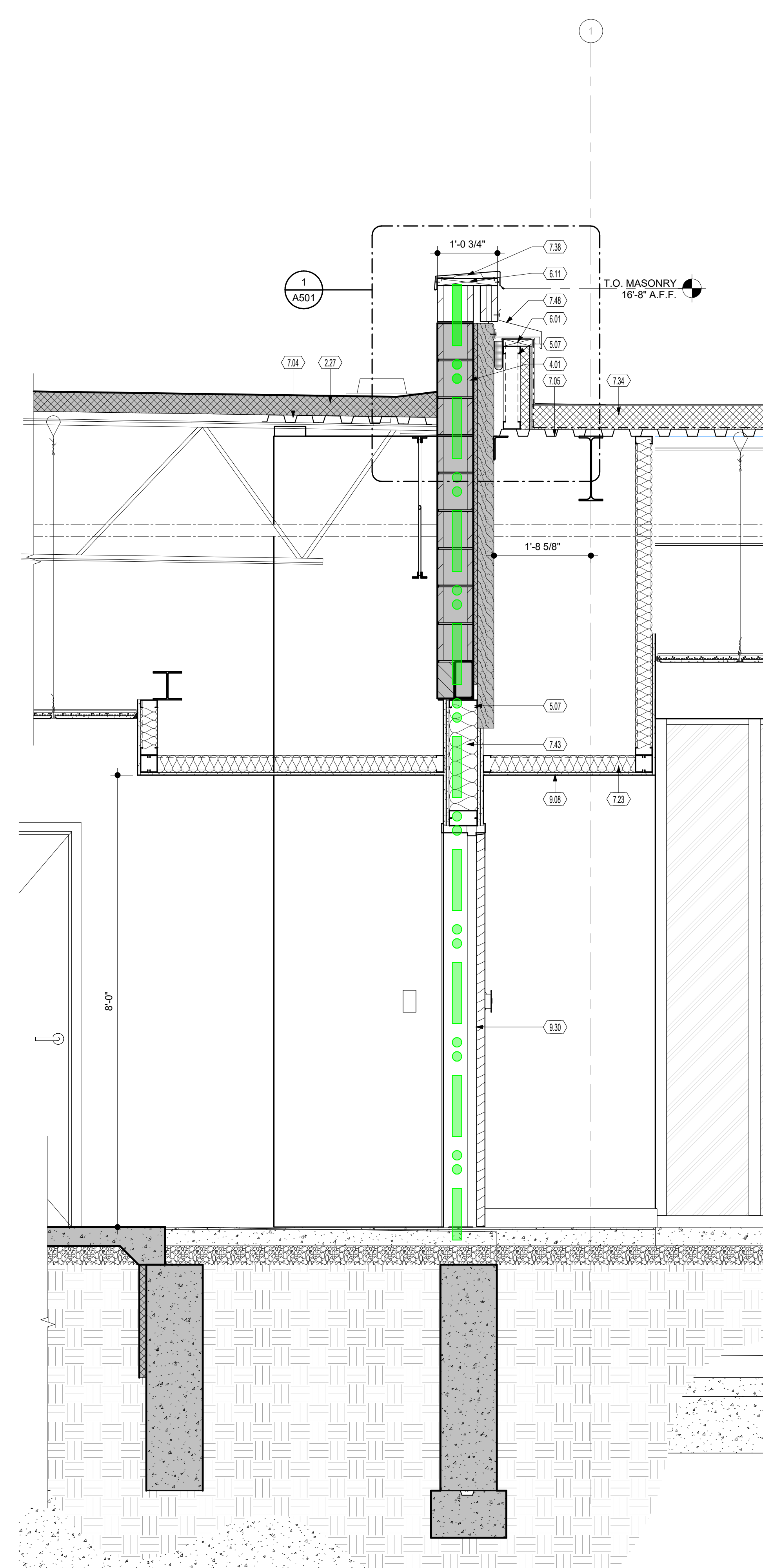
EXTERIOR
ELEVATIONS

A201

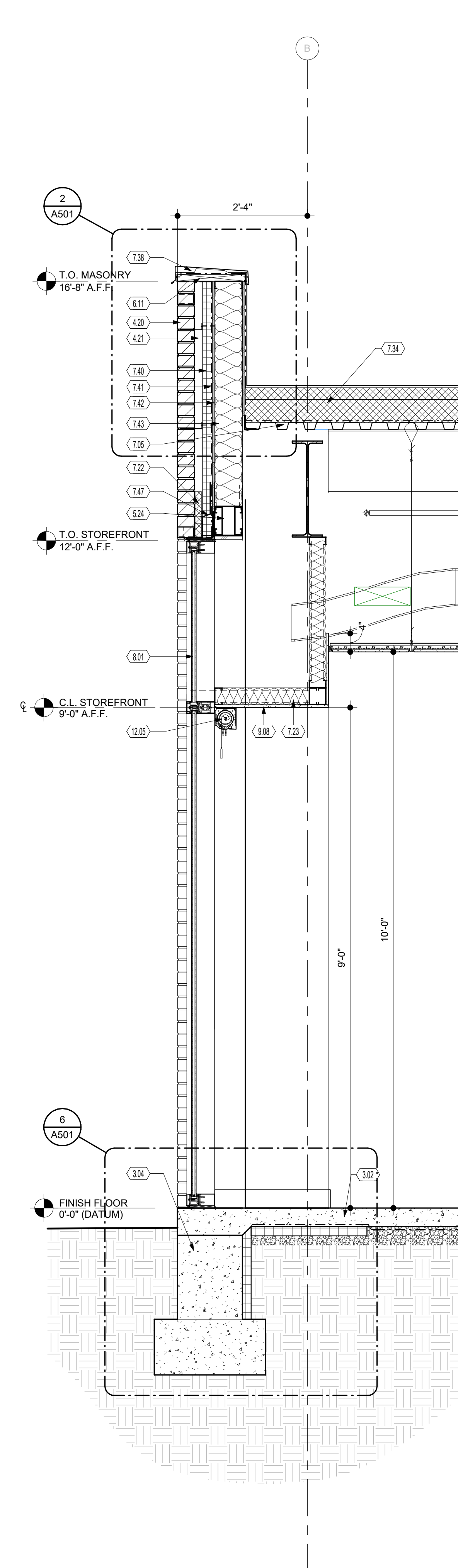




26 WALL SECTION @ EXISTING OPENING



21 WALL SECTION @ CORRIDOR



11 WALL SECTION @ CORRIDOR GLAZING

KEYNOTES

- 2.27 EXISTING ROOF DECK TO REMAIN.
3.02 NEW SLAB ON GRADE. REFER TO STRUCTURAL DRAWINGS FOR REINFORCEMENT.
4.04 CONCRETE FOUNDATION WALL AND FOOTING - SEE STRUCTURAL DRAWINGS.
4.01 EXISTING MASONRY WALL TO REMAIN.
4.20 MODULAR FACE BRICK.
4.21 AIR GAP.
5.07 COLD FORMED METAL FRAMING.
5.24 METAL STUD HEADER.
6.01 2X BLOCKING.
6.11 TWO LAYERS TREATED PLYWOOD BLOCKING AT TOP OF WALL.
7.04 EXISTING METAL DECKING.
7.05 METAL DECKING. REFER TO STRUCTURAL DRAWINGS.
7.22 2" RIGID POLYSTYRENE INSULATION.
7.23 4" FIBERGLASS BATT INSULATION. MINIMUM OF R-13.
7.34 TWO ROOFING SYSTEM OVER RIGID POLYSTY INSULATION. PROVIDE COMPLETE ROOFING SYSTEM AND ACCESSORIES IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
7.38 NEW PRE-FINISHED METAL COPING PARAPET CAP OVER EXISTING MASONRY PARAPET. PROVIDE FINISHING, SEALANTS, AND TRANSITION DETAILS AS REQUIRED FOR A WEATHER-TIGHT CONDITION. THE NEW PARAPET CONSTRUCTION INTO EXISTING PARAPET WHERE REQUIRED.
7.40 RIGID CAVITY INSULATION R-10.
7.41 AIR BARRIER.
7.42 1/2" EXTERIOR SHEATHING.
7.43 6" BATT INSULATION R-19.
7.47 FLASHING.
7.48 20 GA. GALVANIZED CONTINUOUS CLEAT.
8.01 PRE-FINISHED ALUMINUM STOREFRONT SYSTEM WITH 1" INSULATED GLASS.
9.01 5/8" TYPE "X" GWB PAINTED.
9.08 1/2" GYPSUM BOARD CEILING.
9.12 CEILING AS SCHEDULED.
9.30 SCHEDULED DOOR.
12.05 MANUAL ROLLER SHADE WITH FULL BLACKOUT PANEL.

STATE OF OHIO
MARK
C.
WISEMAN
13215
REGISTERED ARCHITECT

Mark C. Wiseman, License #13215
Expiration Date 12/31/2027

[illegible]

CONSULTANTS

**WARREN COUNTY
CAREER CENTER
MEDICAL ACADEMY**



PROJECT NO:
PROJECT
#263306.00
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Author
DATE:

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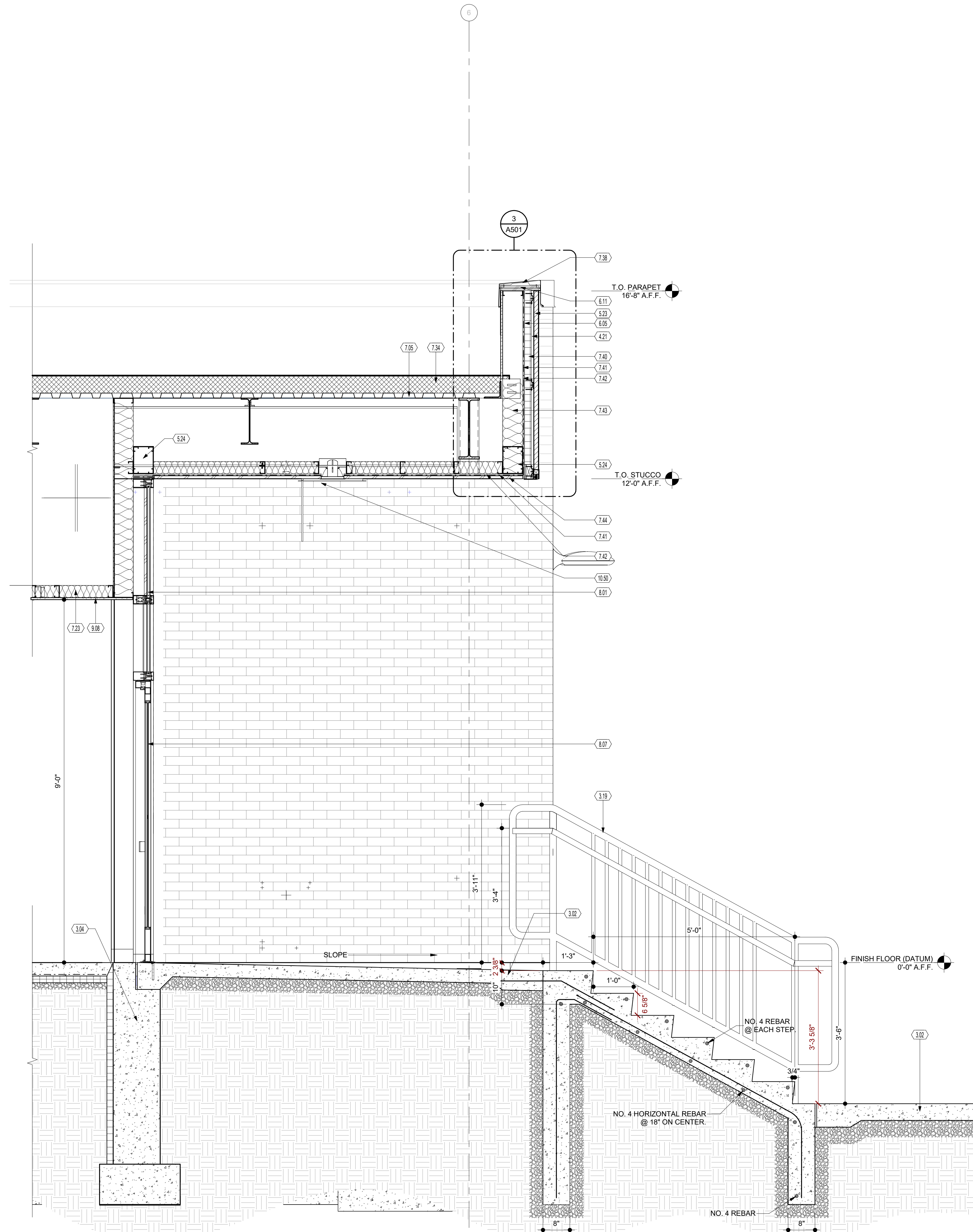


WALL SECTIONS

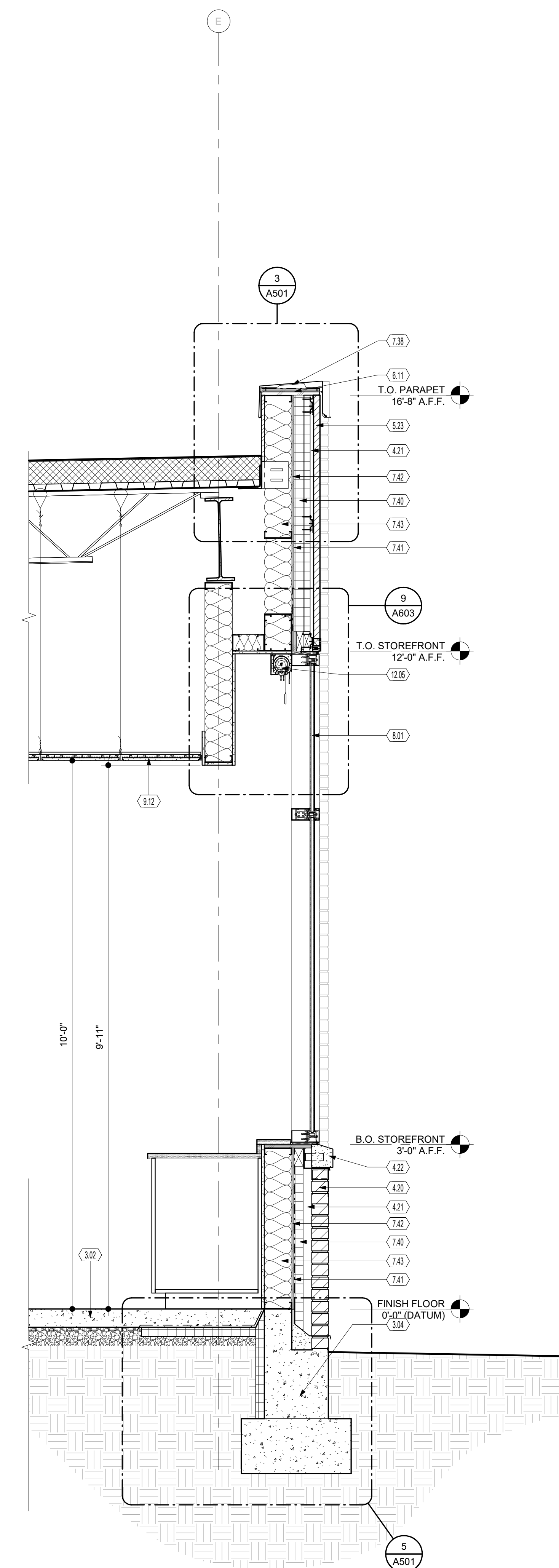
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KEYNOTES

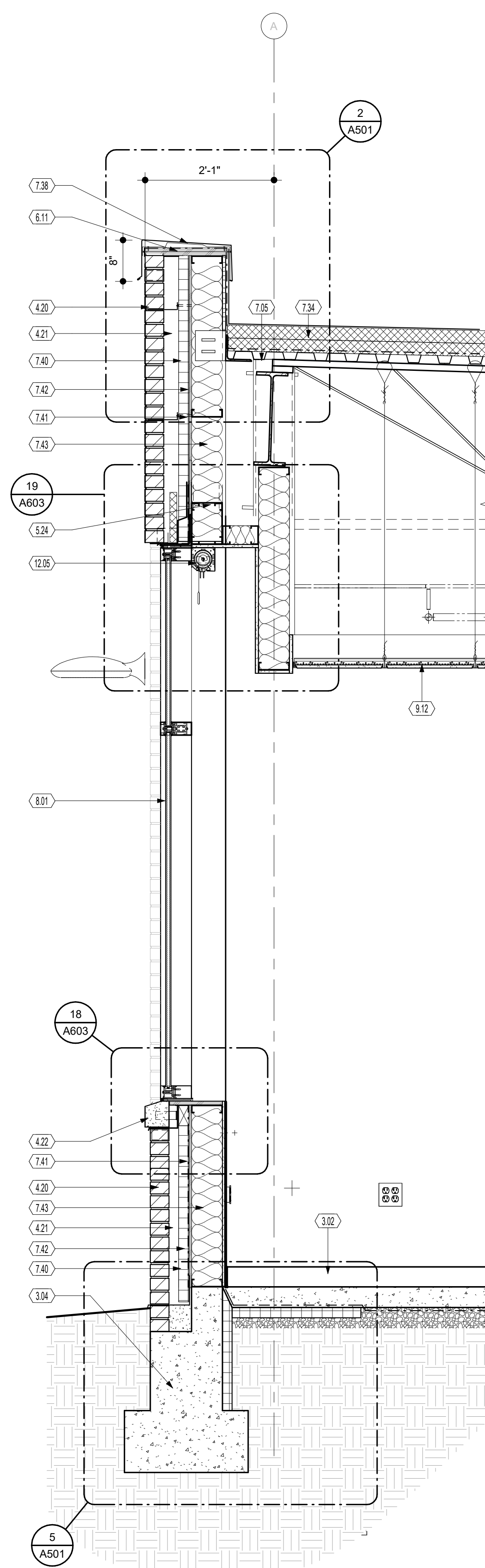
- | | |
|-------|--|
| 3.02 | NEW SLAB ON GRADE. REFER TO STRUCTURAL DRAWINGS FOR REINFORCEMENT. |
| 3.04 | CONCRETE FOUNDATION WALL AND FOOTING - SEE STRUCTURAL DRAWINGS. |
| 3.19 | CONCRETE STAIRS AND SST HANDRAIL. |
| 4.20 | MODULAR FACE BRICK. |
| 4.21 | AIR GAP. |
| 4.22 | LIMESTONE WINDOW SILL. |
| 5.23 | FLAT PROFILE, DEEP FORMED METAL PANEL W/ CONCEALED FASTENERS. |
| 5.24 | METAL STUD HEADER. |
| 6.05 | 1/2" FIRE RETARDANT TREATED PLYWOOD. |
| 6.11 | TWO LAYERS TREATED PLYWOOD BLOCKING AT TOP OF WALL. |
| 7.05 | METAL DECKING. REFER TO STRUCTURAL DRAWINGS. |
| 7.23 | 4" FIBERGLASS BATT INSULATION, MINIMUM OF R-13. |
| 7.34 | 2"00 ROOFING SYSTEM OVER RIGID POLYISO INSULATION, PROVIDE COMPLETE ROOFING SYSTEM AND ACCESSORIES IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. |
| 7.38 | NEW PRE-FINISHED METAL COPING PARAPET CAP OVER EXISTING MASONRY PARAPET. PROVIDE FLASHING, SEALANTS, AND TRANSITION DETAILS AS REQUIRED FOR A WEATHER-TIGHT CONDITION. THE NEW PARAPET CONSTRUCTION INCLUDE EXISTING PARAPET WHERE REQUIRED. |
| 7.40 | RIGID CAVITY INSULATION R-10. |
| 7.41 | AIR BARRIER. |
| 7.42 | 1"2" EXTERIOR SHEATHING. |
| 7.43 | 6" BATT INSULATION R-19. |
| 7.44 | 7/8" EXTERIOR GYPSUM SHEATHING. |
| 8.01 | PRE-FINISHED ALUMINUM STOREFRONT SYSTEM WITH 1" INSULATED GLAZING. |
| 8.07 | ALUMINUM STOREFRONT DOOR. |
| 9.08 | 1"2" GYPSUM BOARD CEILING. |
| 9.12 | CEILING AS SCHEDULED. |
| 10.50 | ACCESS PANEL WITH SCREWDRIVER LATCH. |
| 12.05 | MANUAL ROLLER SHADE WITH FULL BLACKOUT PANEL. |



26 WALL SECTION @ NORTH EAST ENTRANCE

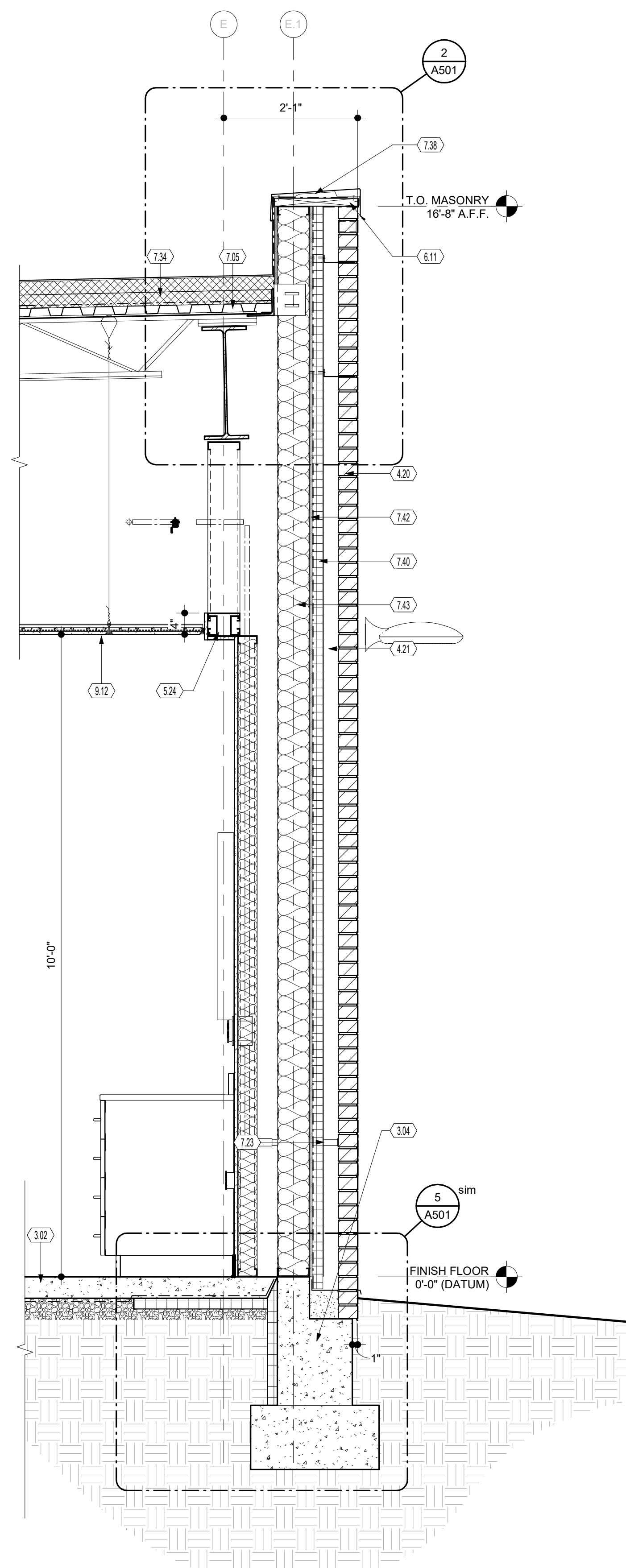


16 WALL SECTION @ SURGICAL TECH
SCALE | 3/4" = 1'-0"



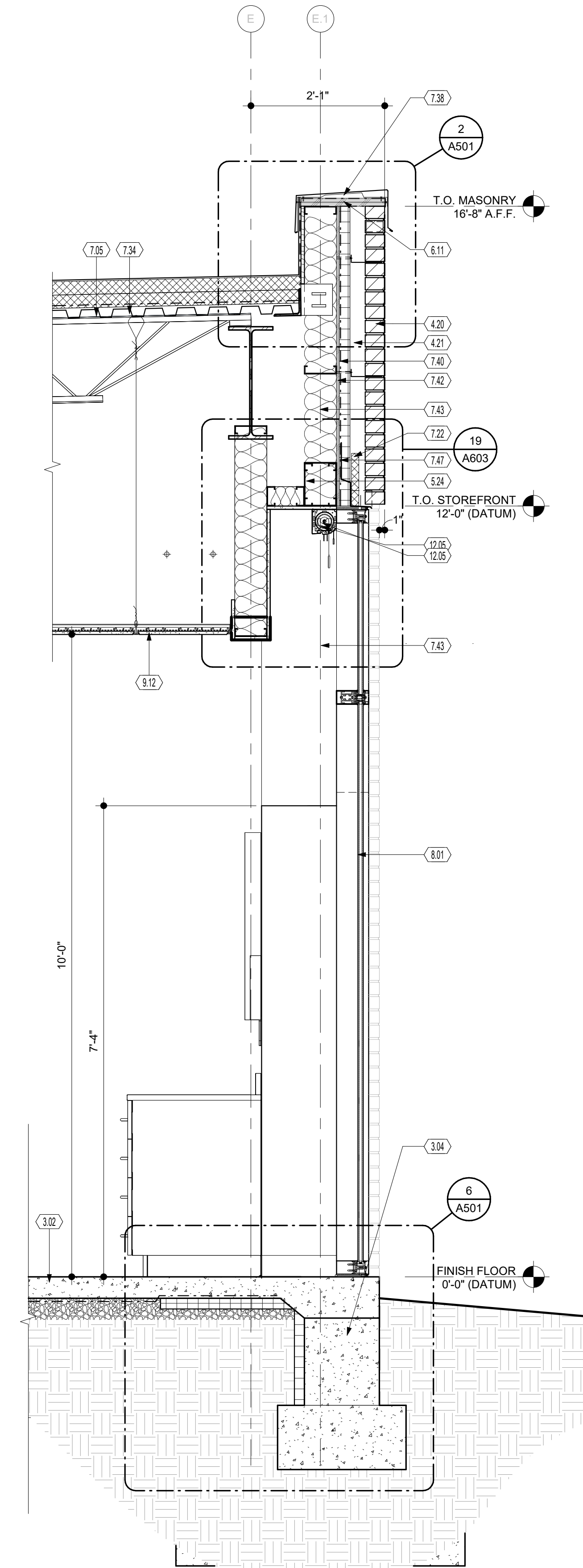
26 WALL SECTION @ CLASSROOM GLAZING

SCALE | 3/4" = 1'-0"



21 WALL SECTION @ PRE-NURSING LAB

SCALE | 3/4" = 1'-0"



11 WALL SECTION @ PRE-NURSING LAB GLAZING

SCALE | 3/4" = 1'-0"

KEYNOTES

- | | |
|-------|---|
| 3.02 | NEW SLAB ON GRADE. REFER TO STRUCTURAL DRAWINGS FOR REINFORCEMENT. |
| 3.04 | CONCRETE FOUNDATION WALL AND FOOTING - SEE STRUCTURAL DRAWINGS. |
| 4.20 | MODULAR FACE BRICK. |
| 4.21 | AIR GAP. |
| 4.22 | LIMESTONE WINDOW SILL. |
| 5.24 | METAL STUD HEADER. |
| 6.11 | TWO LAYERS TREATED PLYWOOD BLOCKING AT TOP OF WALL. |
| 7.01 | METAL DECKING. REFER TO STRUCTURAL DRAWINGS. |
| 7.22 | 2" RIGID POLYURETHANE INSULATION. |
| 7.23 | 4" FIBERGLASS BATT INSULATION. MINIMUM OF R-13. |
| 7.34 | TOP ROOFING SYSTEM OVER RIGID POLY URETHANE. PROVIDE COMPLETE ROOFING SYSTEM AND ACCESSORIES IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. |
| 7.38 | NEW PRE-FINISHED METAL COPING PARAPET CAP OVER EXISTING MASONRY PARAPET. PROVIDE FINISHING, SEALANTS, AND TRANSITION DETAILS AS REQUIRED FOR A WEATHER-TIGHT CONDITION. THE NEW PARAPET CONSTRUCTION INCLUDE EXISTING PARAPET WHERE REQUIRED. |
| 7.40 | RIGID CIVILITY INSULATION: R-10. |
| 7.41 | AIR BARRIER. |
| 7.42 | 1/2" EXTERIOR SHEATHING. |
| 7.43 | 6" BATT INSULATION R-19. |
| 7.47 | FLASHING. |
| 8.01 | PRE-FINISHED ALUMINUM STOREFRONT SYSTEM WITH 1" INSULATED GLAZING. |
| 9.12 | CEILING AS SCHEDULED. |
| 12.05 | MANUAL ROLLER SHADE WITH FULL BLACKOUT PANEL. |

REVISIONS:[illegible]

PRINTINGS:

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**WARREN COUNTY
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WALL SECTIONS

A312

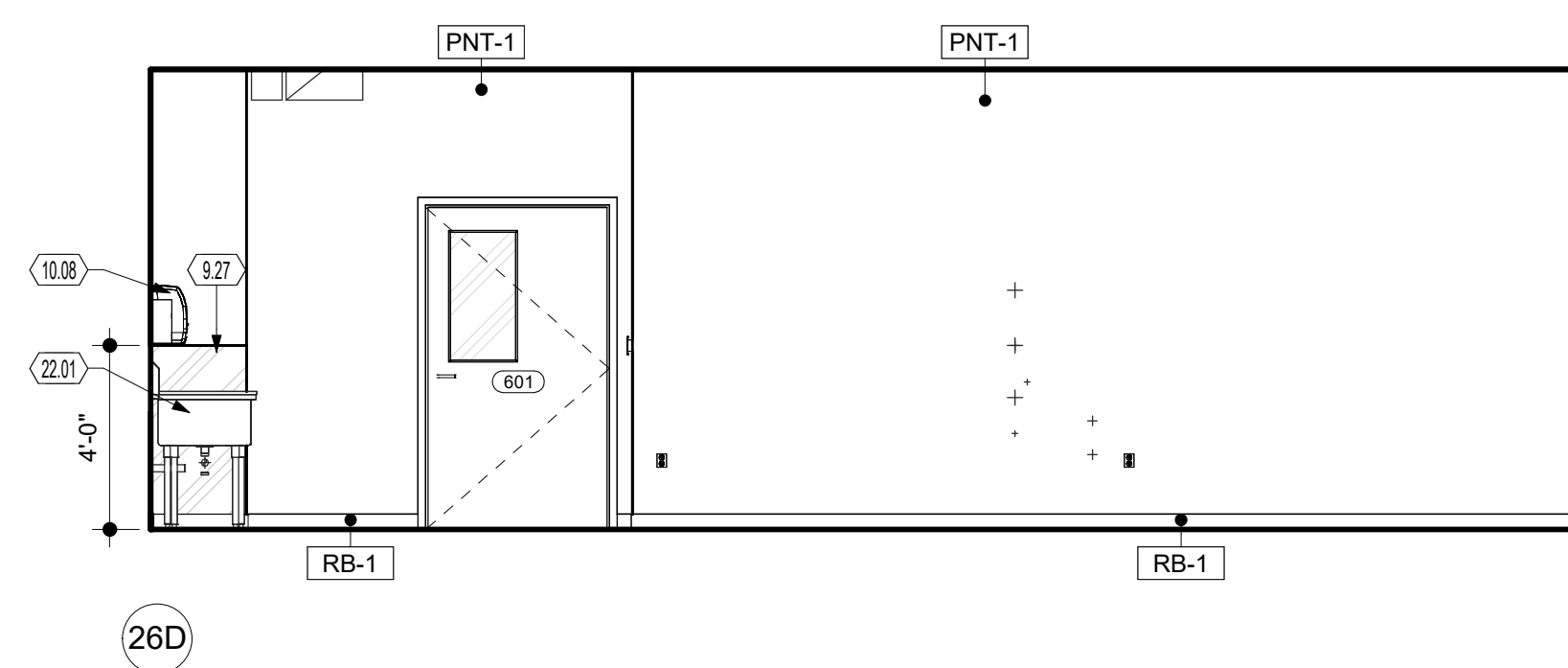
- A. SEE G-002 FOR TYPICAL FIXTURE AND ACCESSORY MOUNTING HEIGHTS AND DIMENSIONS.
- B. SEE PME PLANS FOR FIXTURE TYPES AND ADDITIONAL INFORMATION.
- C. SEE FINISH PLANS FOR ALL SCHEDULED FINISHES

10.01 18" VERTICAL GRAB BAR.
10.02 42" HORIZONTAL GRAB BAR.
10.03 36" HORIZONTAL GRAB BAR.
10.09 SANITARY NAPKIN DISPOSAL PROVIDED BY OWNER. INSTALLED BY CONTRACTOR.
10.10 TOILET TISSUE DISPENSER PROVIDED BY OWNER. INSTALLED BY CONTRACTOR.
10.11 LIQUID SOAP DISPENSER PROVIDED BY OWNER. INSTALLED BY CONTRACTOR.
10.12 PAPER TOWEL DISPENSER PROVIDED BY OWNER. INSTALLED BY CONTRACTOR.
10.30 24" x 36" MIRROR.
22.01 SINK SURFACE COUNTERTOP AND UNDERMOUNT SINK, WITH PLASTIC LAMINATE SINK BASE.
22.02 TOILET. SEE PUMPING DRAWINGS.

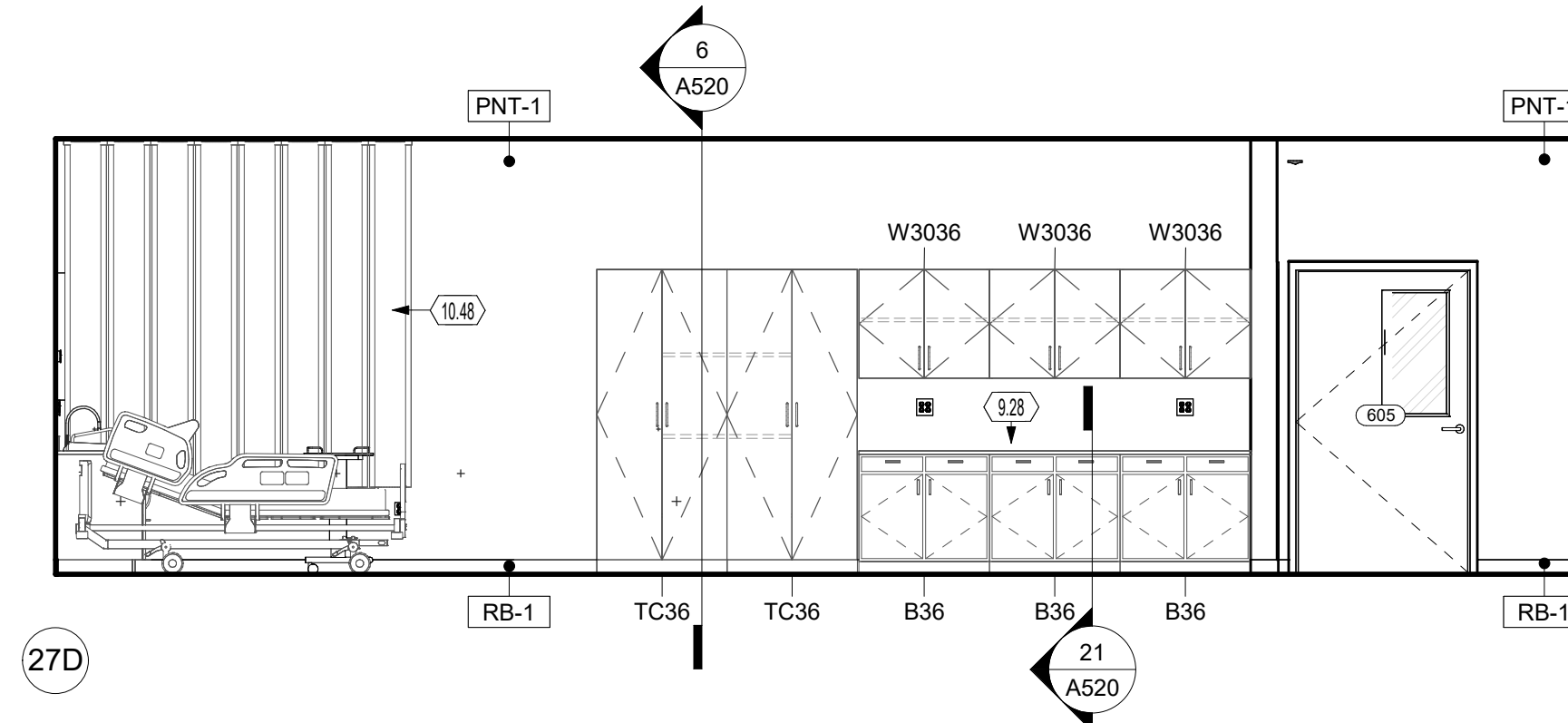


26 SURGICAL TECH INTERIOR ELEVATIONS

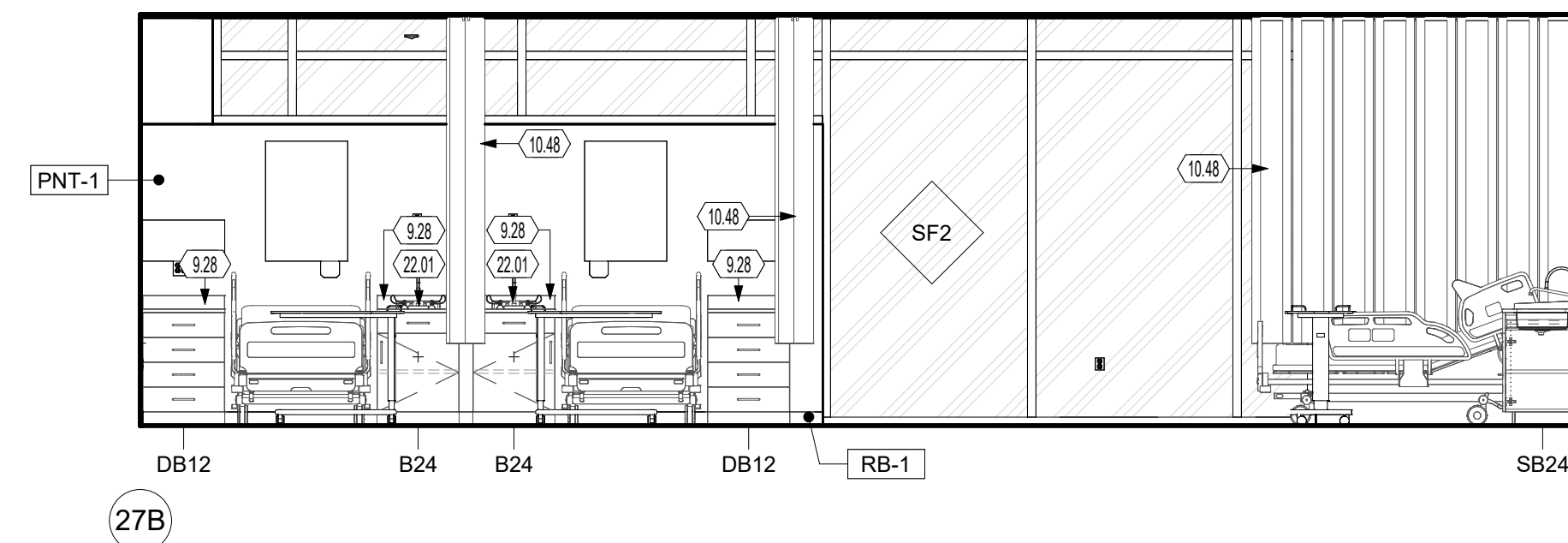
SCALE | 1/4" = 1'-0"



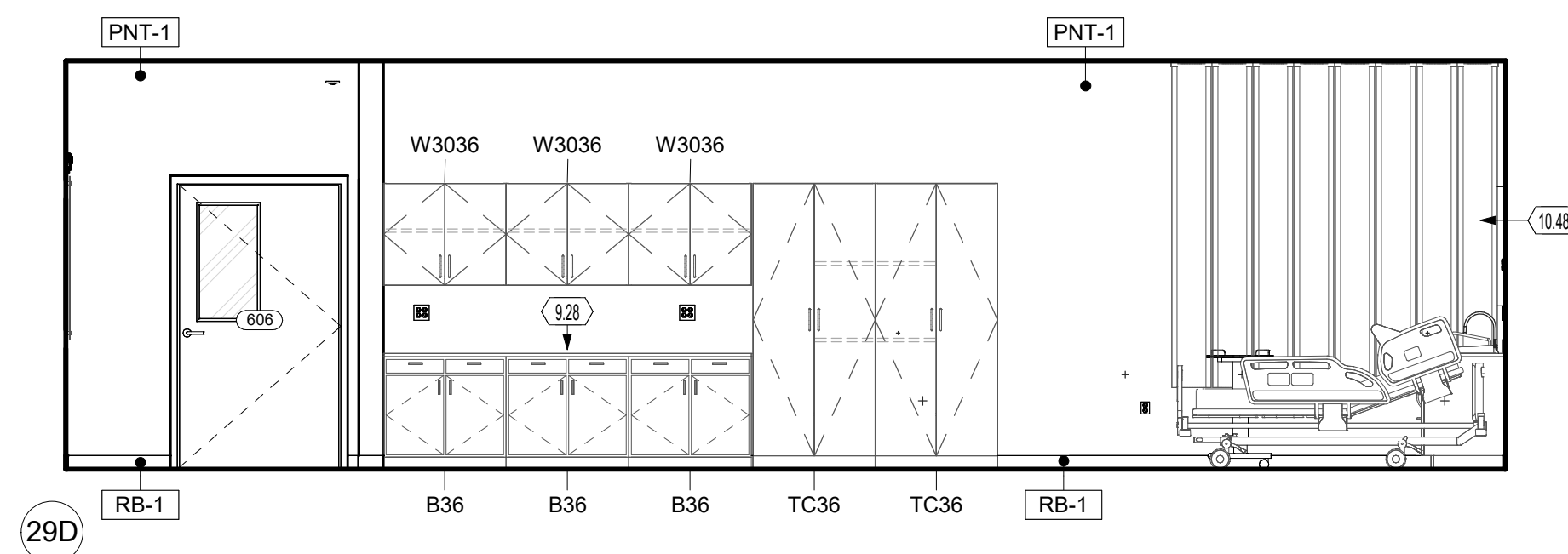
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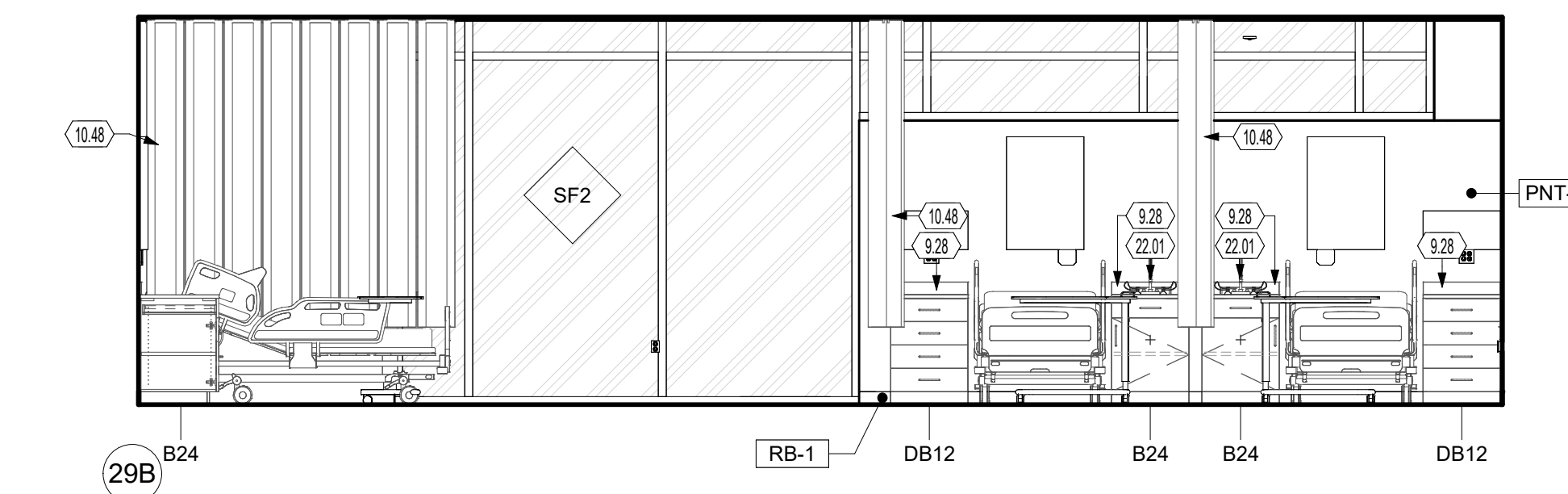
27D



27B



29D



29B

29 PRE-NURSING LAB 606 INTERIOR ELEVATIONS

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

GENERAL NOTES - ELEVATIONS

- A. SEE G-002 FOR TYPICAL FIXTURE AND ACCESSORY MOUNTING HEIGHTS AND DIMENSIONS.
- B. SEE FINISH PLANS FOR ALL SCHEDULED FINISHES. CONTRACTOR TO COORDINATE FINAL WALL COLORS SELECTION WITH ARCHITECT AND OWNER PRIOR TO APPLICATION.
- C. PRIOR TO GYPSUM BOARD INSTALL ALL EXPOSED PENETRATIONS SHALL BE REVIEWED BY OWNER/ARCHITECT.
- D. PRIOR TO GYPSUM BOARD INSTALLATION AND ELECTRICAL ROUGH-IN INSPECTION, GENERAL CONTRACTORS, ELECTRICAL DATA CONTRACTORS, AND ARCHITECT SHALL REVIEW IN-PLACE LOCATIONS OF ALL SWITCH BOXES, RECEPTACLE BOXES, FIRE ALARM DEVICES, ETC. FINAL LOCATIONS MAY BE ADJUSTED AT THIS TIME TO ALIGN OR COORDINATE WITH DESIGN INTENT.
- E. CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATIONS OF ELECTRICAL, PLUMBING AND MECHANICAL DEVICES WITH THE ARCHITECTURAL ITEMS, ELECTRICAL PLUMBING AND MECHANICAL DEVICES ARE TYPICALLY SHOWN SCHEMATICALLY ON THE PME DRAWINGS AND NOT INTENDED TO REPRESENT THEIR SPECIFIC LOCATION. ONCE ARCHITECTURAL DRAWINGS OR WALL MOUNTED EQUIPMENT OR FURNISHINGS AND ADJUST LOCATION OF PME DEVICES AS REQUIRED.

CASEWORK KEY

WALL CABINETS

W##X

↑ ↑ ↑ ↑

MODIFIER
CABINET WIDTH (INCHES)
CABINET HEIGHT (INCHES)
CABINET TYPE

BASE CABINETS

B # X

↑ ↑ ↑

MODIFIER
CABINET WIDTH (INCHES)
CABINET TYPE

CABINET TYPE

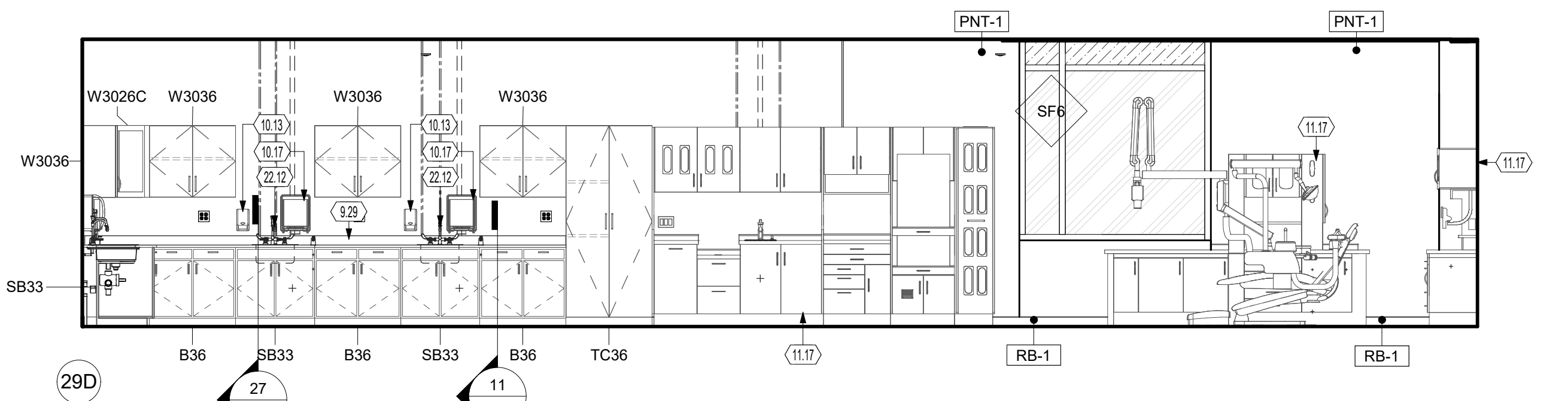
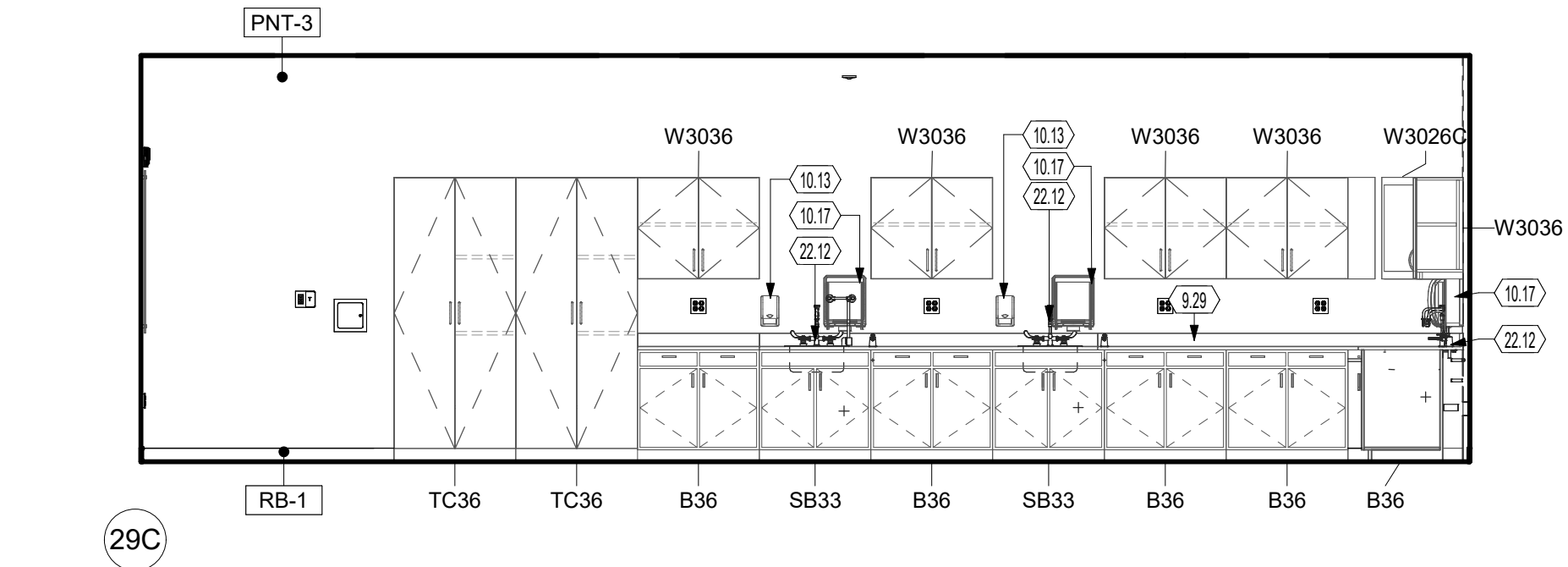
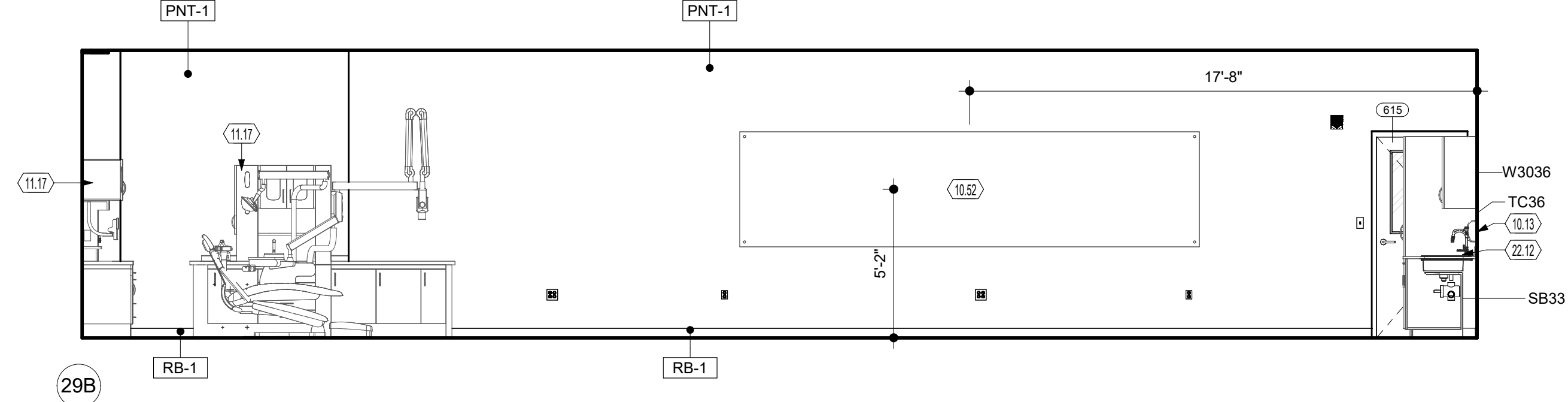
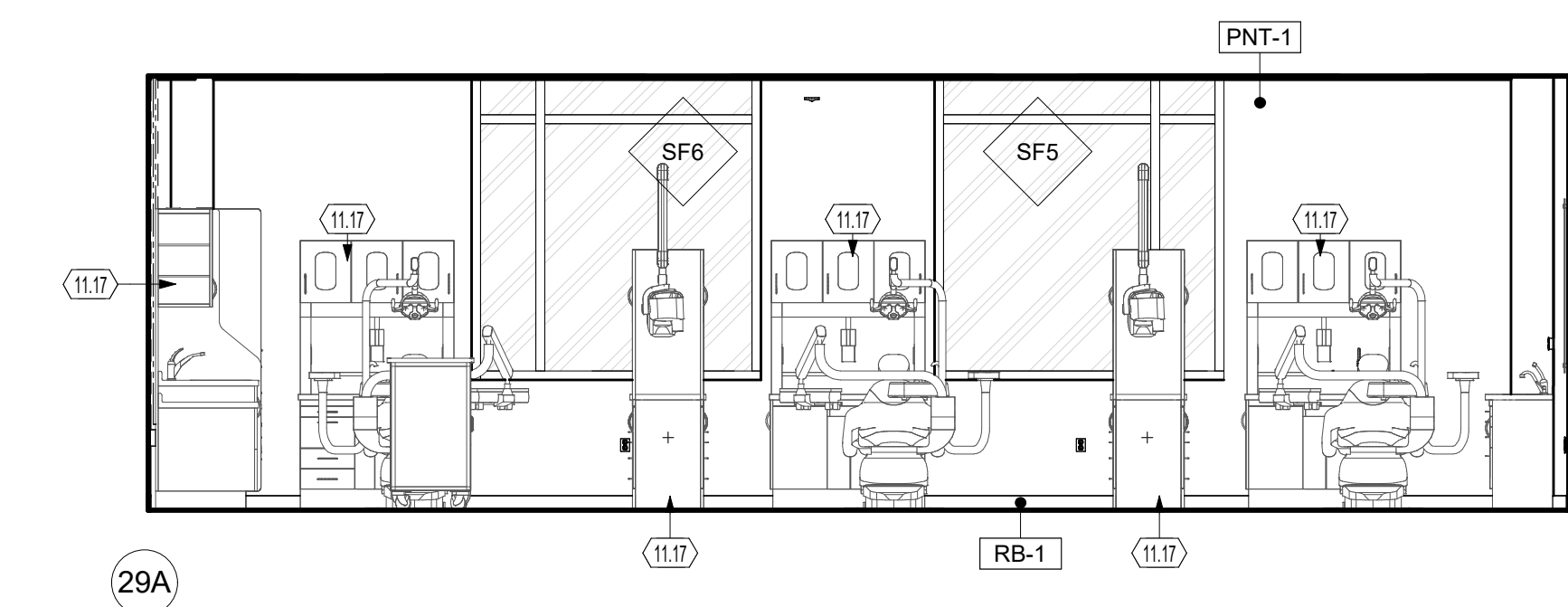
W - WALL CABINET
B - BASE CABINET
TC - TALL CABINET
DB - DRAWER BASE
SB - SINK BASE
MC - MICROWAVE CABINET
CH - TALL TEACHER CABINET
C - STUDENT CUBBIES

MODIFIER

A - ADA HEIGHTS
D - WITH DRAWER
L - LOCKABLE
X - DATA CABINET
R - ADA HEIGHT WITH DRAWER
C - CORNER UNIT
N - ADA HEIGHT CORNER UNIT
S - DESK HEIGHT CORNER UNIT

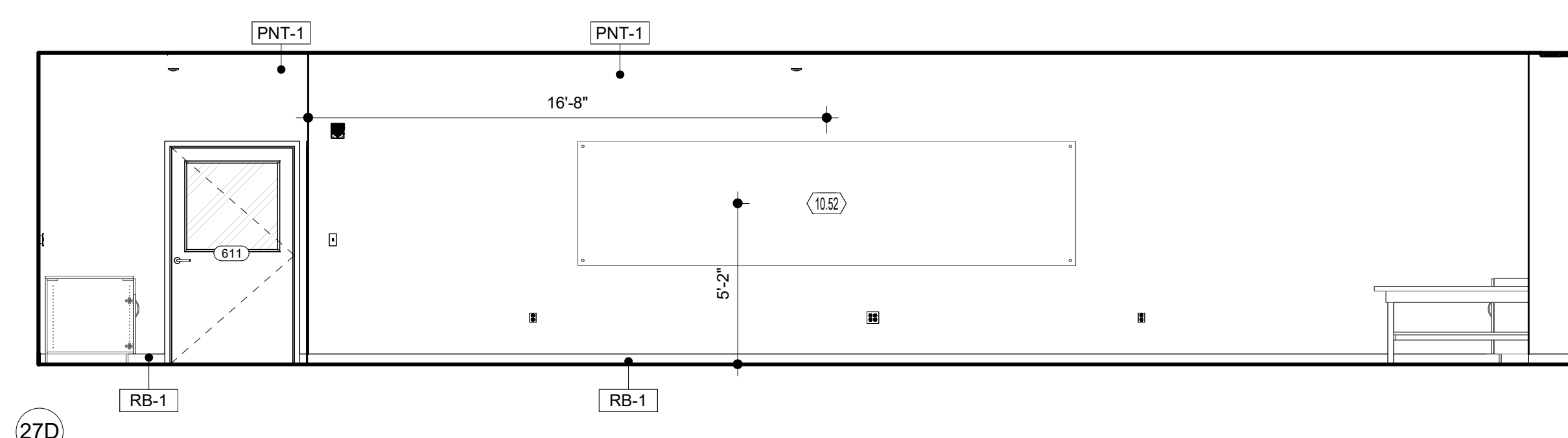
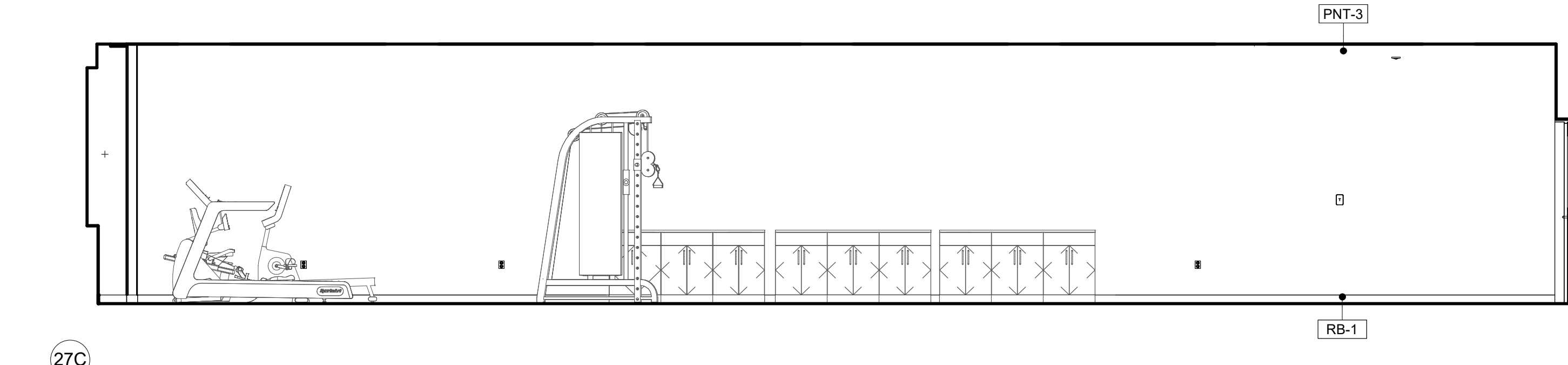
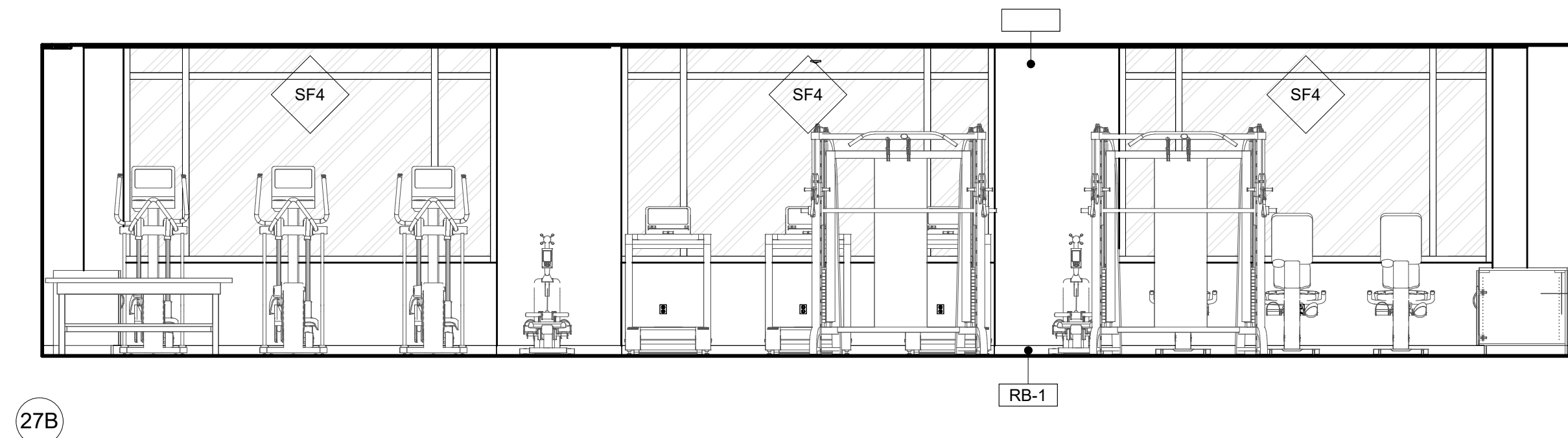
KEYNOTES

6.10	CONCEALED COUNTER SUPPORT BRACKET, RAIRS EH-1816PM, MILL FINISH.
9.27	SHEET, BRUSHED FINISH, BACKLASH PROVIDE 10 GA. TYPE 304 STAINLESS STEEL EXPOSED EDGES, MINIMIZE SEAMS, WELD OR SEAL SEAM; INSTALL PLUMB WITH CONCEALED ATTACHMENT. SEE SCHEDULE
9.28	SOLID SURFACE COUNTERTOP. SEE SCHEDULE
10.08	PAPER TOWEL DISPENSER PROVIDED BY OWNER. INSTALLED BY CONTRACTOR
10.13	LIQUID SOAP DISPENSER PROVIDED BY OWNER. INSTALLED BY CONTRACTOR
10.48	CEILING MOUNTED ALUMINUM TRACK AND CURTAIN SYSTEM.
10.52	4" X 16" PORCELAIN WHITE BOARD.
11.16	MEDICAL INSTRUMENTATION HEADWALL. PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR.
11.19	OTOSCOPE STATION. PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR
22.01	SOLID SURFACE COUNTERTOP AND UNDERMOUNT SINK, WITH PLASTIC



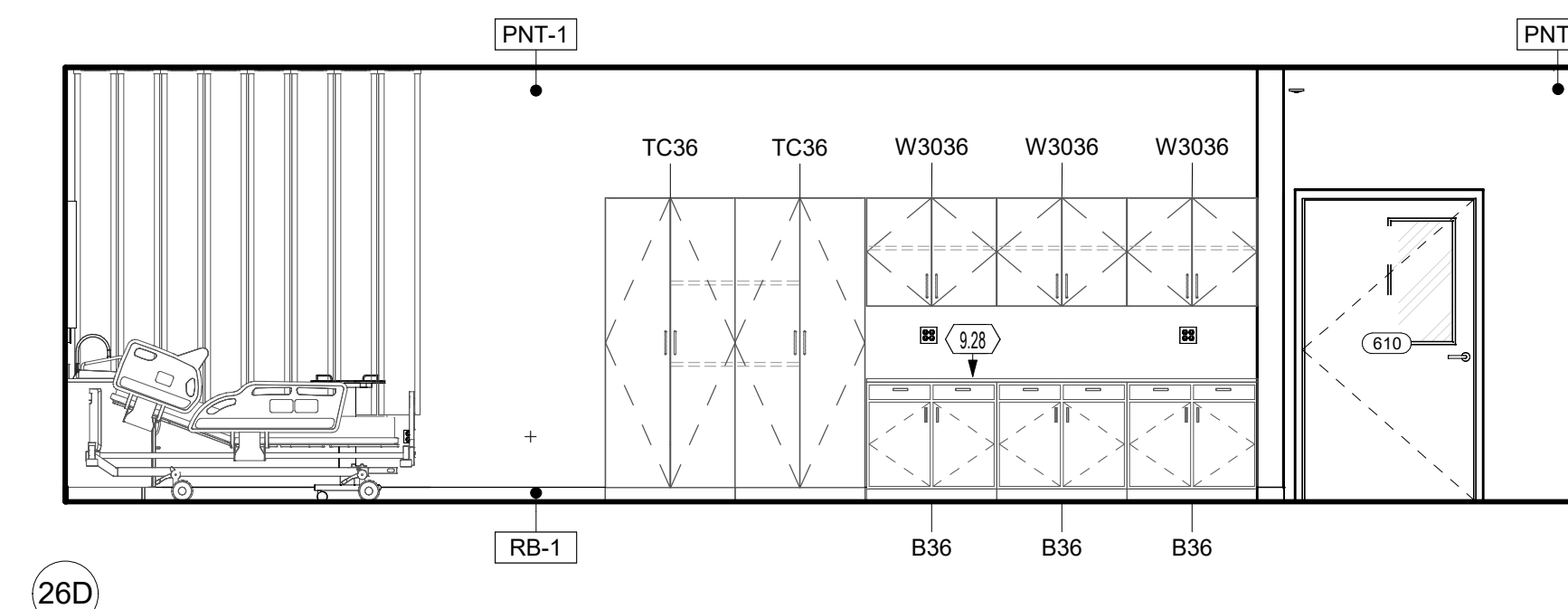
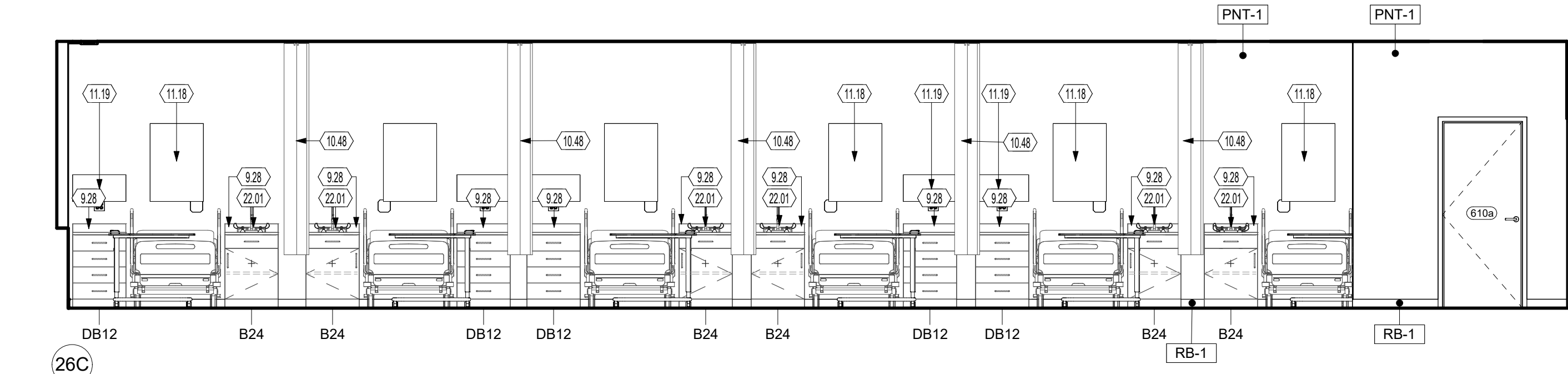
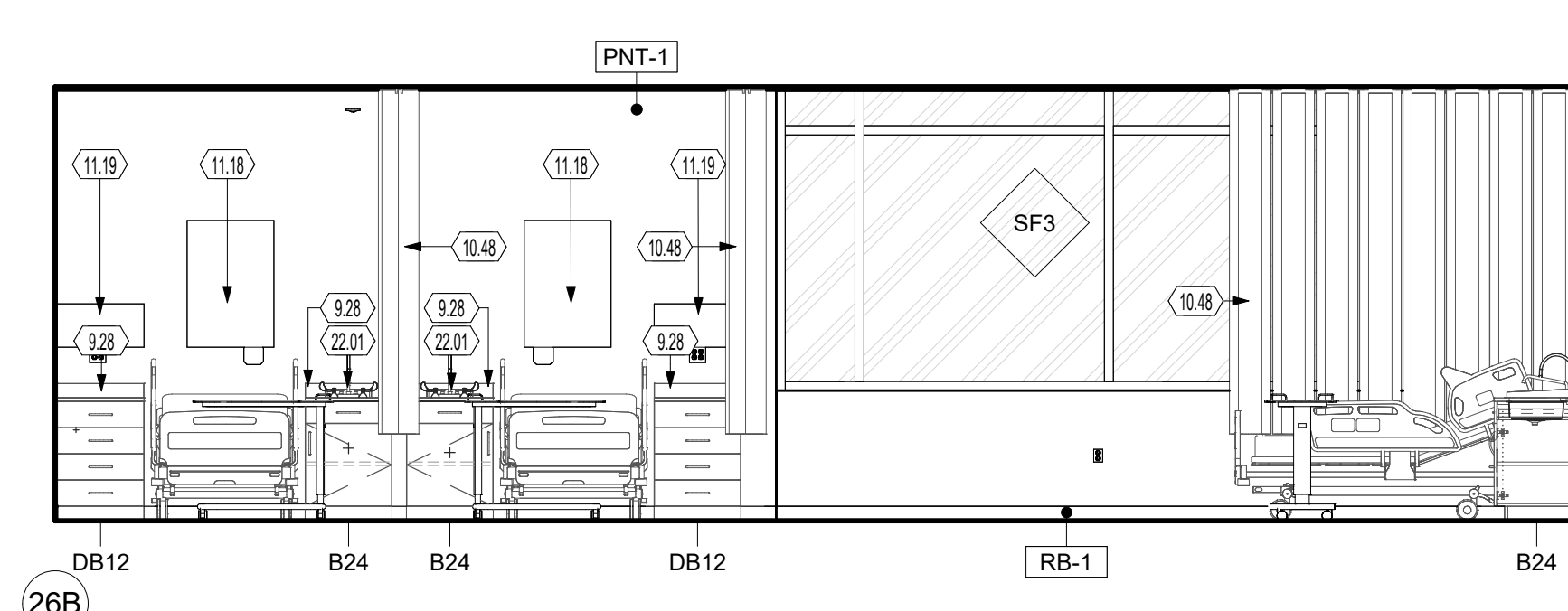
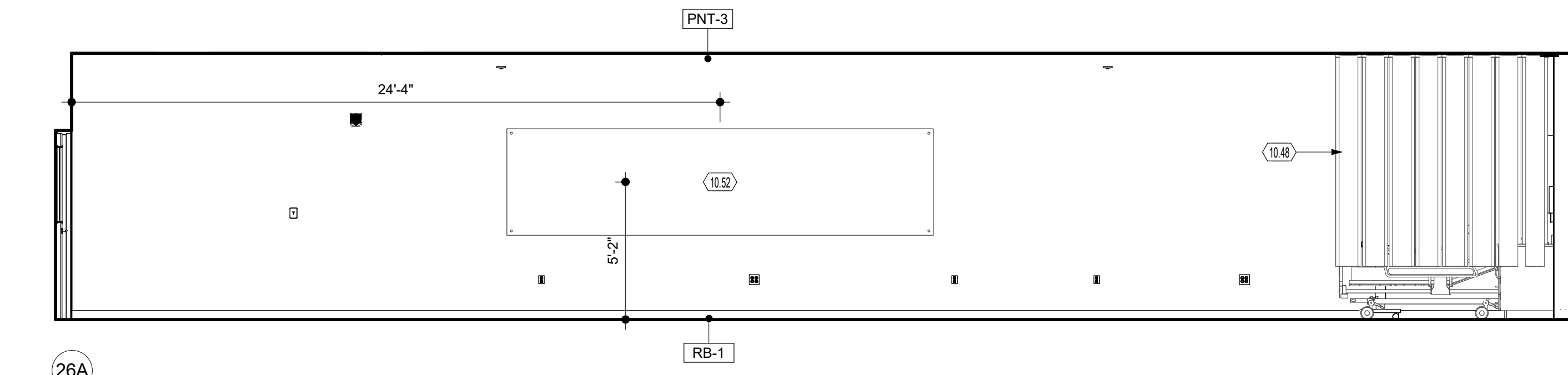
29 DENTAL INTERIOR ELEVATIONS

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



27 EXERCISE SCIENCE INTERIOR ELEVATIONS

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



26 PRE-NURSING LAB 610 INTERIOR ELEVATIONS

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

GENERAL NOTES - ELEVATIONS

- SEE G-602 FOR TYPICAL FIXTURE AND ACCESSORY MOUNTING HEIGHTS AND DIMENSIONS.
- SEE FINISH PLANS FOR ALL SCHEDULED FINISHES. CONTRACTOR TO COORDINATE FINAL WALL COLORS SELECTION WITH ARCHITECT AND OWNER PRIOR TO APPLICATION.
- PRIOR TO GYPSUM BOARD INSTALLATION ALL EXPOSED PENETRATIONS SHALL BE REVIEWED BY OWNER/ARCHITECT.
- PRIOR TO GYPSUM BOARD INSTALLATION AND ELECTRICAL ROUGH-IN INSPECTION, GENERAL CONTRACTORS, ELECTRICAL/PLUMBING CONTRACTORS, AND ARCHITECT SHALL REVIEW IN-PLACE LOCATIONS OF ALL SWITCH BOXES, RECEPTACLE BOXES, FIRE ALARM BOXES, ETC. FINAL LOCATIONS MAY BE ADJUSTED AT THIS TIME TO ALIGN OR COORDINATE WITH DESIGN INTENT.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATIONS OF ELECTRICAL, PLUMBING AND MECHANICAL DEVICES WITH THE ARCHITECTURAL ITEMS. ELECTRICAL PLUMBING AND MECHANICAL DEVICES ARE TYPICALLY SHOWN SCHEMATICALLY ON THE PME DRAWINGS AND NOT INTENDED TO REPRESENT THEIR SPECIFIC LOCATION. REVIEW ARCHITECTURAL DRAWINGS FOR WALL MOUNTED EQUIPMENT OR FURNISHINGS AND ADJUST LOCATION OF PME DEVICES AS REQUIRED.

CASEWORK KEY

WALL CABINETS	BASE CABINETS
W # # X MODIFIER CABINET WIDTH (INCHES) CABINET HEIGHT (INCHES) CABINET TYPE	B # X MODIFIER CABINET WIDTH (INCHES) CABINET TYPE
CABINET TYPE W - WALL CABINET B - BASE CABINET TC - TALL CABINET DB - DRAWER BASE SB - SINK BASE MC - MICROWAVE CABINET CH - TALL TEACHER CABINET C - STUDENT CUBBIES	MODIFIER A - ADA HEIGHTS D - WITH DRAWER L - LOCKABLE X - DATA CABINET R - ADA HEIGHT WITH DRAWER C - CORNER UNIT N - ADA HEIGHT CORNER UNIT S - DESK HEIGHT CORNER UNIT

KEYNOTES

9.28	SOLID SURFACE COUNTERTOP. SEE SCHEDULE.
9.29	EPOXY COUNTERTOP. SEE SCHEDULE.
10.13	LIQUID SOAP DISPENSER PROVIDED BY OWNER. INSTALLED BY CONTRACTOR.
10.17	PAPER TOWEL DISPENSER PROVIDED BY OWNER. INSTALLED BY CONTRACTOR.
10.48	CEILING MOUNTED ALUMINUM TRACK AND CURTAIN SYSTEM.
10.52	4' X 16' MAGNETIC PORCELAIN WHITE BOARD.
11.17	RELOCATED EXISTING DENTAL CASEWORK.
11.18	MEDICAL DEMONSTRATION HEADWALL. PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR.
11.19	OTOSCOPE STATION. PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR.
22.01	SOLID SURFACE COUNTERTOP AND UNDERMOUNT SINK. WITH PLASTIC LAMINATE SINK BASE.
22.12	UNDERMOUNT STAINLESS SINK. SEE PLUMBING DRAWINGS.

STATE OF OHIO
MARK C. WISEMAN
13215
REGISTERED ARCHITECT

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Mark C. Wiseman, License #13215
Expiration Date 12/31/2027

REVISIONS:

Number	Description
091123026	

PRINTINGS:

Proj / Permit Set	Date
091123026	

CONSULTANTS

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MEDICAL ACADEMY
3525 OH-48, Lebanon, OH 45036

PROJECT NO:
PROJECT #263306.00
CHECKED BY:
Checker
DRAWN BY:
Author
DATE:
091123026

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MARIETTA, OHIO 45754
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Levin Porter Associates Inc. dba Levin Porter Architects

INTERIOR
ELEVATIONS
A411

9/16/2025 10:20:36 AM

GENERAL NOTES - ELEVATIONS

- A. SEE G-002 FOR TYPICAL FIXTURE AND ACCESSORY MOUNTING HEIGHTS AND DIMENSIONS.
- B. SEE FINISH PLANS FOR ALL SCHEDULED FINISHES. CONTRACTOR TO COORDINATE FINAL WALL COLORS SELECTION WITH ARCHITECT AND OWNER PRIOR TO APPLICATION.
- C. PRIOR TO GYPSUM BOARD INSTALLATION ALL EXPOSED PENETRATIONS SHALL BE REVIEWED BY OWNER/ARCHITECT.
- D. PRIOR TO GYPSUM BOARD INSTALLATION AND ELECTRICAL ROUGH-IN INSPECTION, GENERAL CONTRACTORS, ELECTRICAL/ DATA CONTRACTORS, AND ARCHITECT SHALL REVIEW IN-PLACE LOCATIONS OF ALL SWITCH BOXES, RECEPTACLE BOXES, FIRE ALARM BOXES, ETC. FINAL LOCATIONS MAY BE ADJUSTED AT THIS TIME TO ALIGN OR COORDINATE WITH DESIGN INTENT.
- E. CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATIONS OF ELECTRICAL, PLUMBING AND MECHANICAL DEVICES WITH THE ARCHITECTURAL ITEMS. ELECTRICAL, PLUMBING AND MECHANICAL DEVICES ARE TYPICALLY SHOWN SCHEMATICALLY ON THE PME DRAWINGS AND NOT INTENDED TO REPRESENT THEIR SPECIFIC LOCATION. REVIEW ARCHITECTURAL DRAWINGS FOR WALL MOUNTED EQUIPMENT OR FURNISHINGS AND ADJUST LOCATION OF PME DEVICES AS REQUIRED.

CASEWORK KEY

WALL CABINETS

W # # X
MODIFIER
CABINET WIDTH (INCHES)
CABINET HEIGHT (INCHES)
CABINET TYPE

BASE CABINETS

B # # X
MODIFIER
CABINET WIDTH (INCHES)
CABINET TYPE

CABINET TYPE

W - WALL CABINET
B - BASE CABINET
TC - TALL CABINET
DB - DRAWER BASE
SB - SINK BASE
MC - MICROWAVE CABINET
CH - TALL TEACHER CABINET
C - STUDENT CUBBIES

MODIFIER

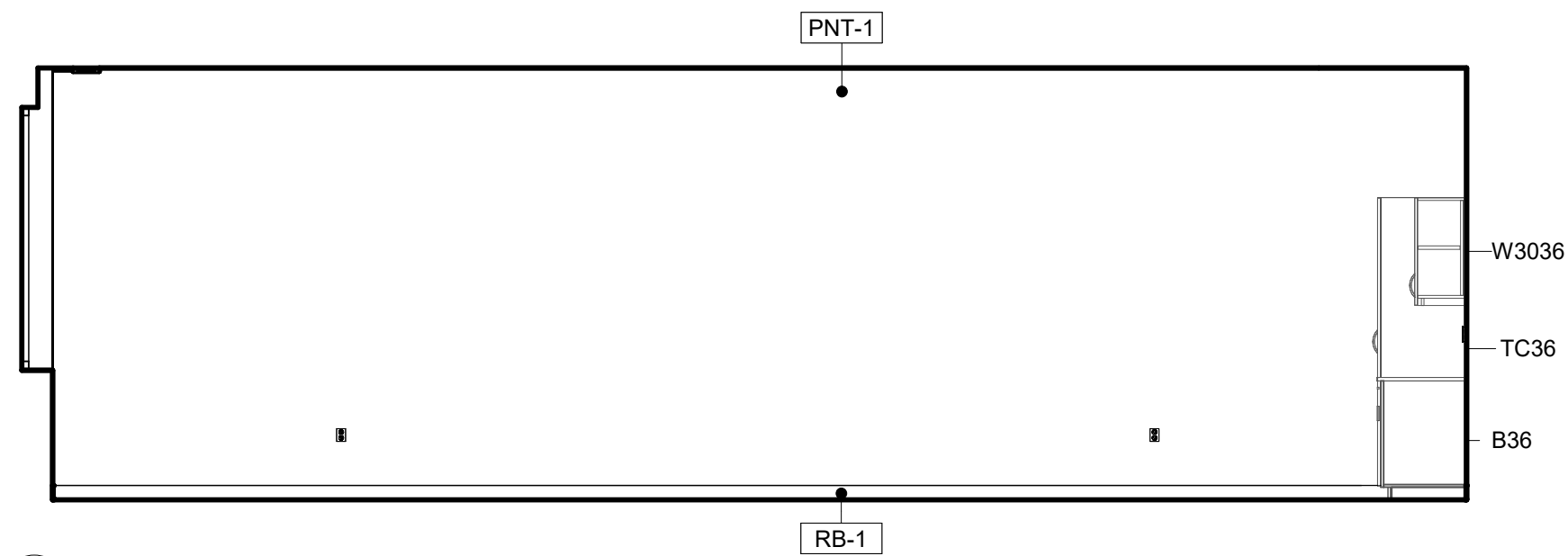
A - ADA HEIGHTS
D - WITH DRAWER
L - LOCKABLE
X - DATA CABINET
R - ADA HEIGHT WITH DRAWER
C - CORNER UNIT
N - ADA HEIGHT CORNER UNIT
S - DESK HEIGHT CORNER UNIT

KEYNOTES

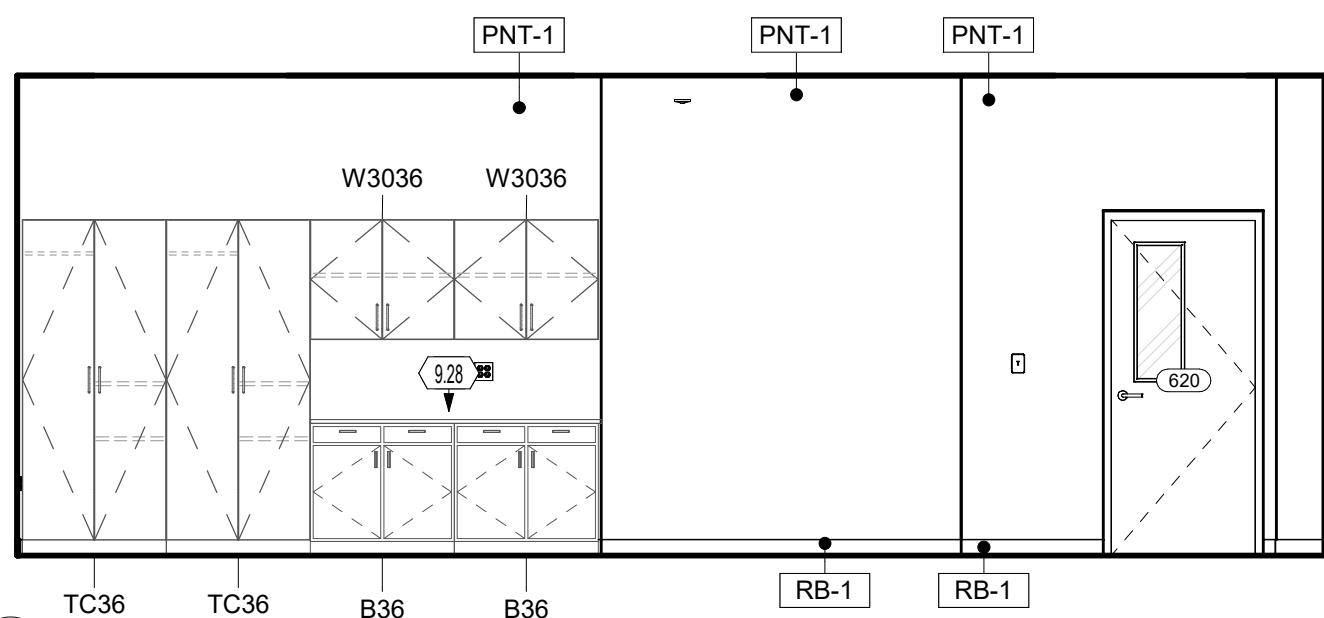
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10.52

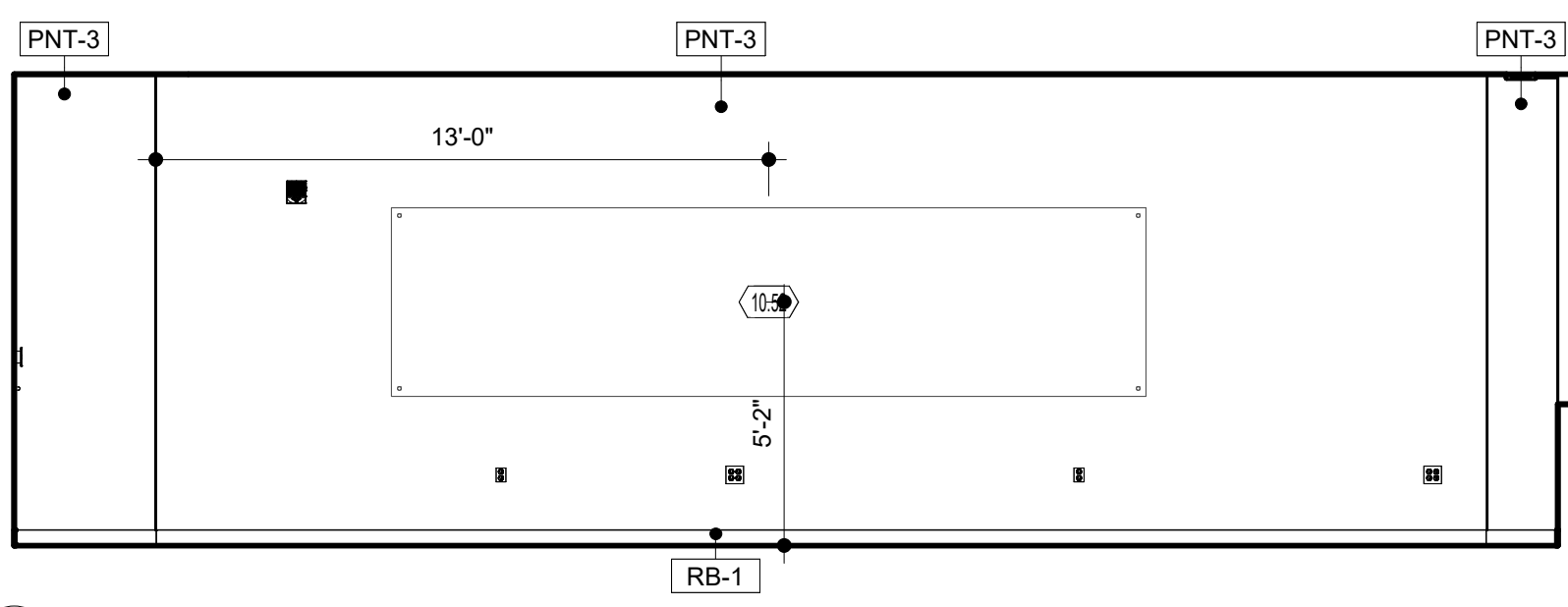
SOLID SURFACE COUNTERTOP. SEE SCHEDULE
4' X 16' MAGNETIC PORCELAIN WHITE BOARD.



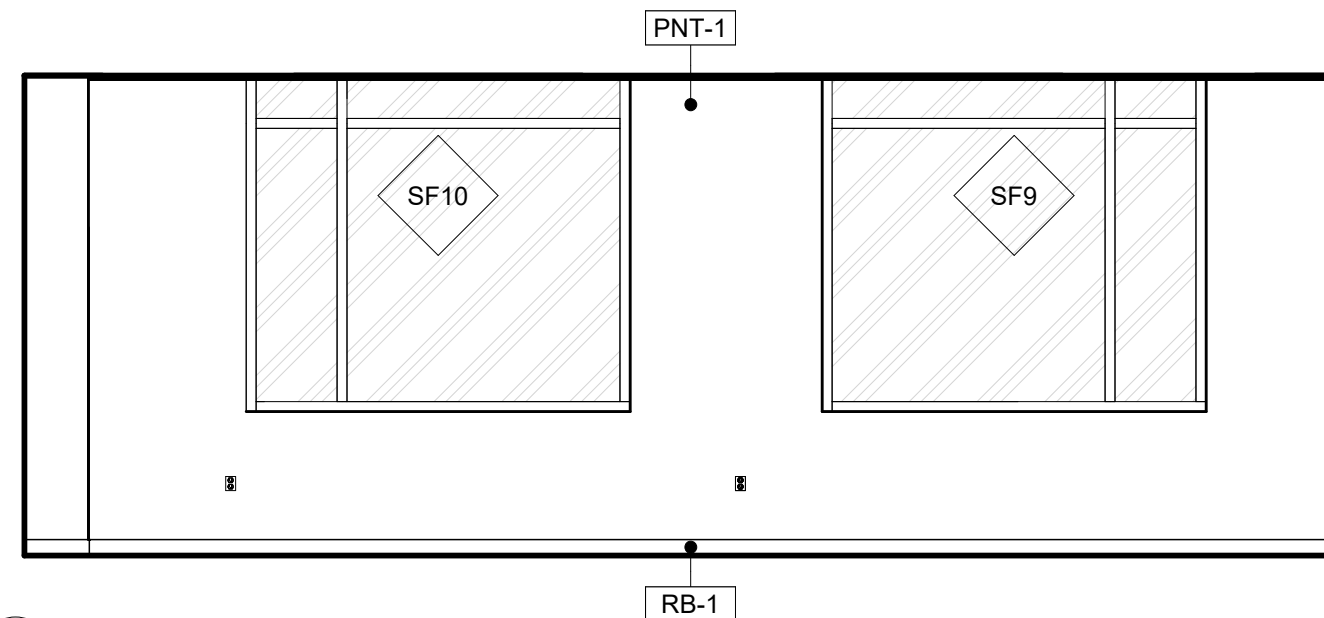
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29B



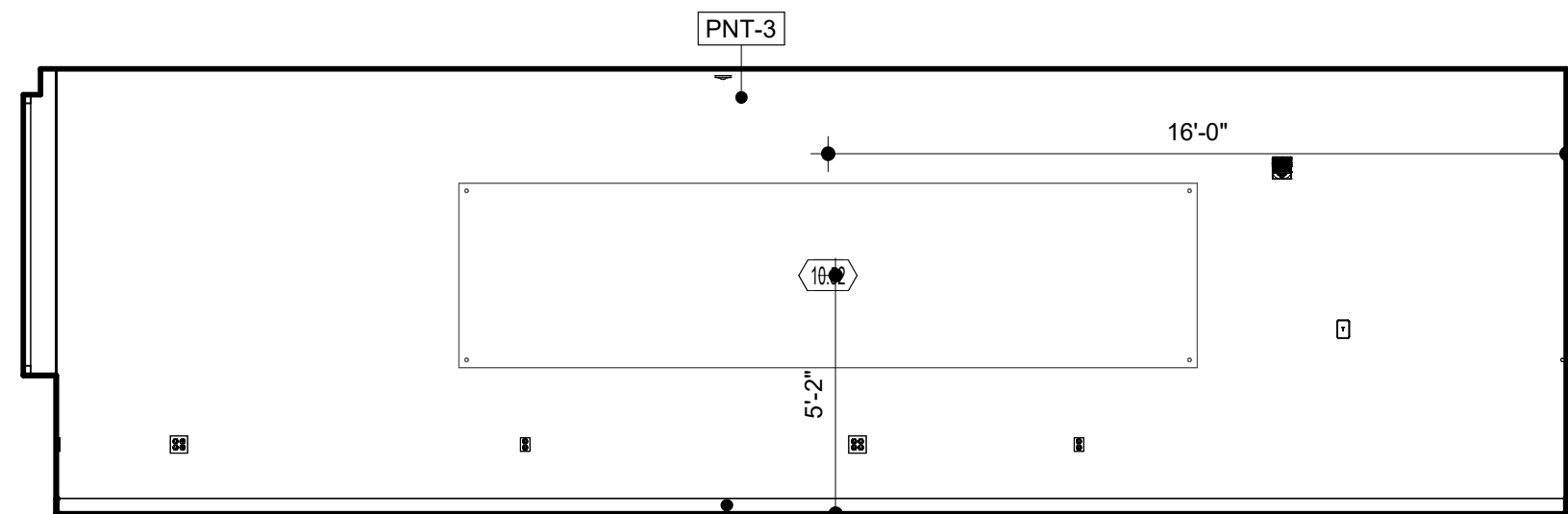
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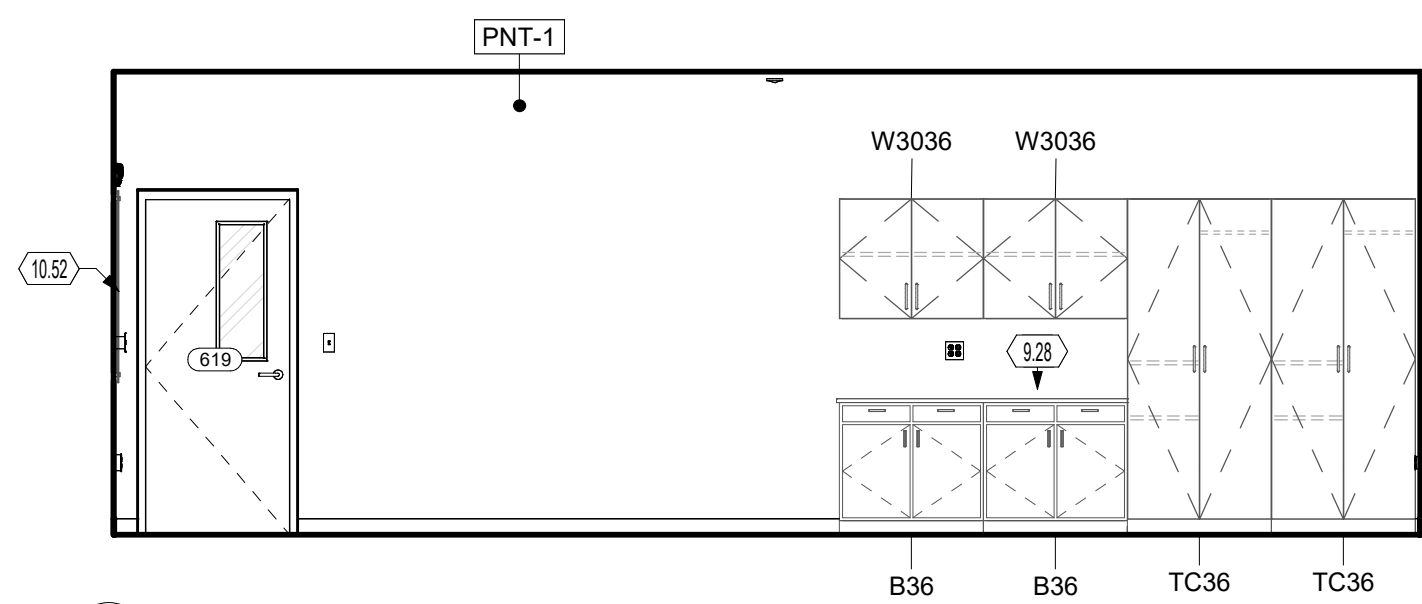
29D

29 CLASSROOM 620 INTERIOR ELEVATIONS

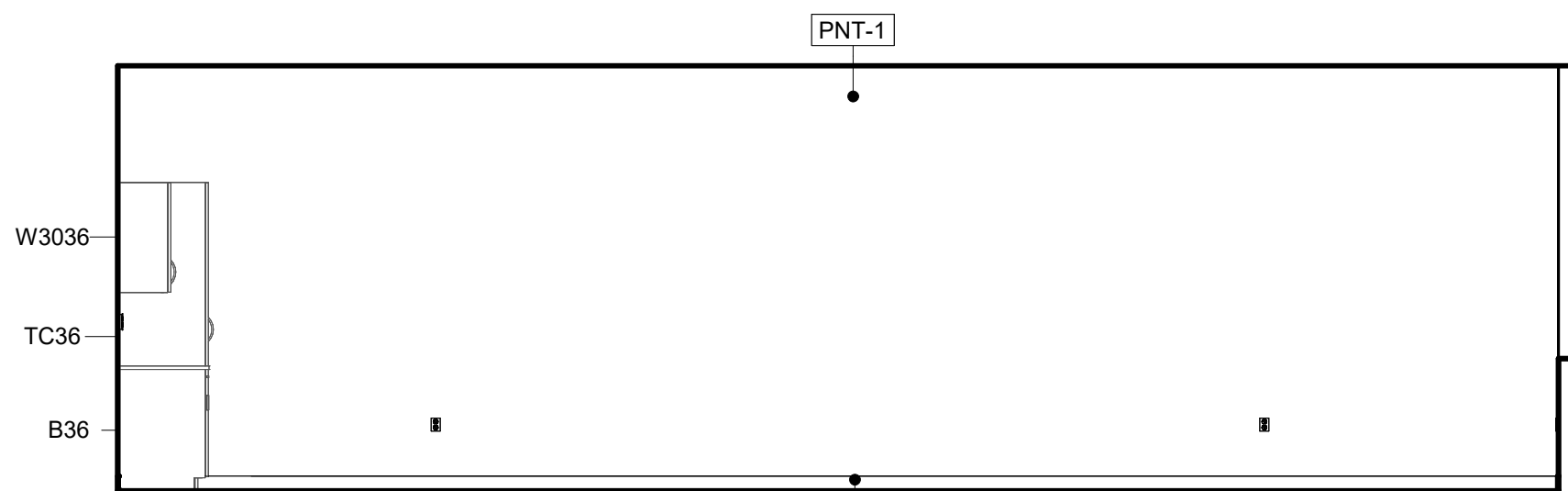
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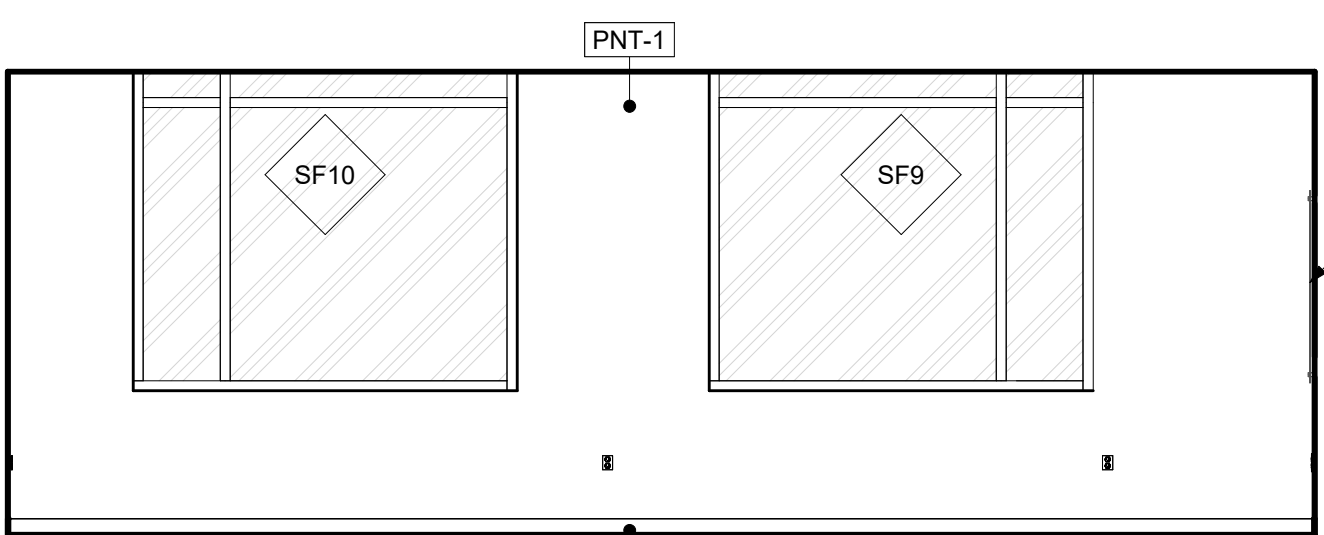
28A



28B



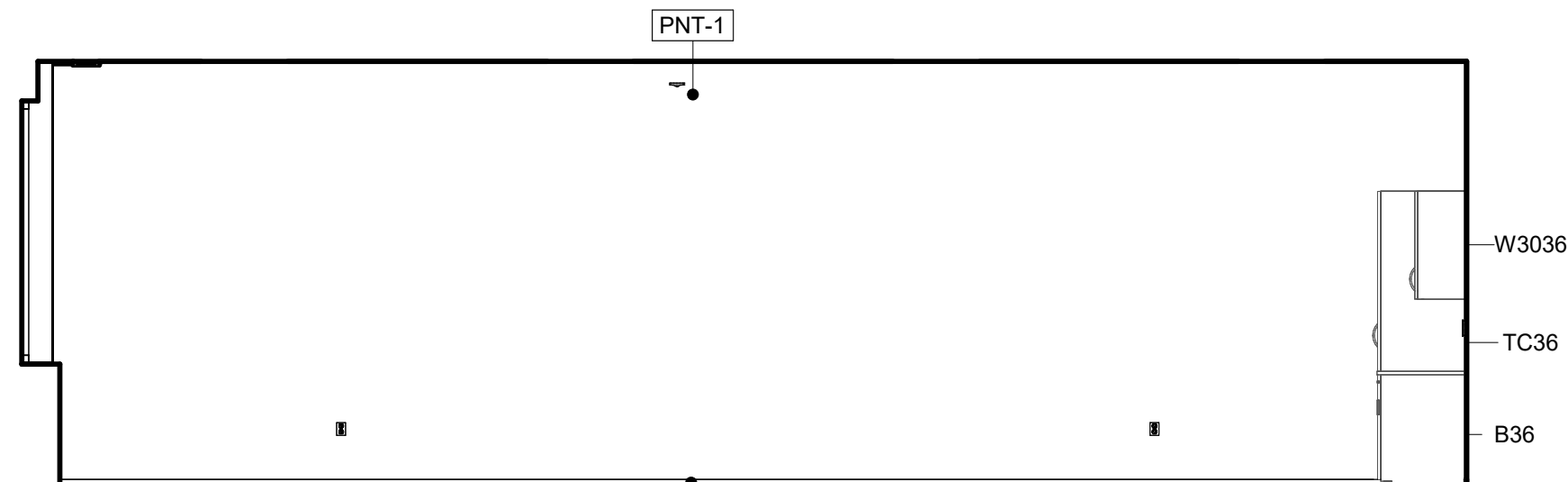
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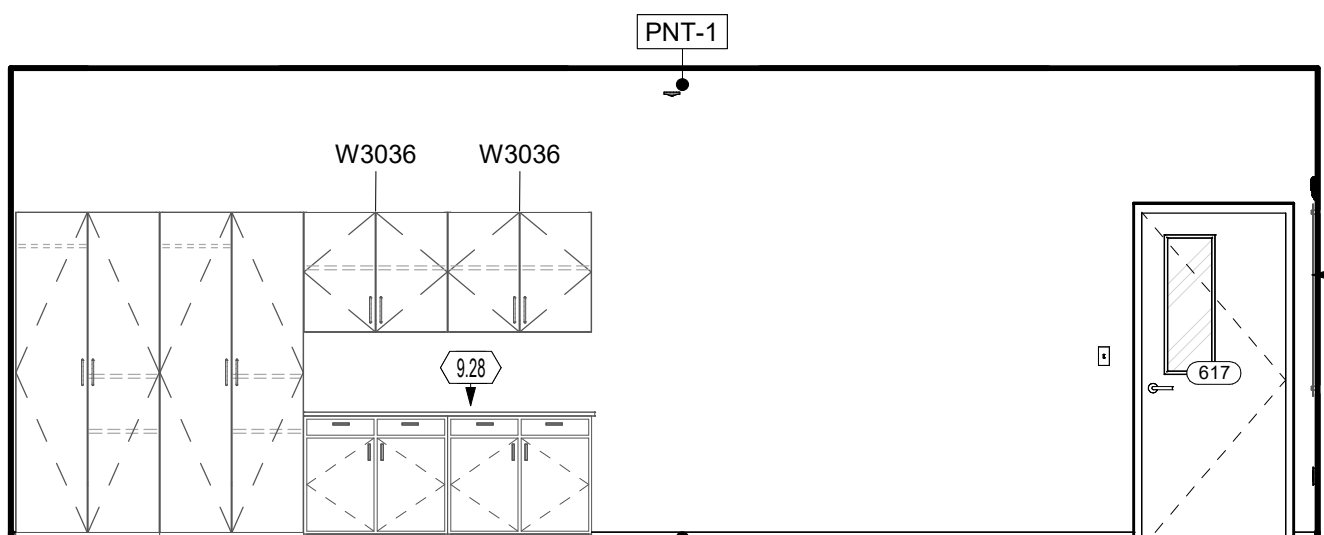
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28 CLASSROOM 619 INTERIOR ELEVATIONS

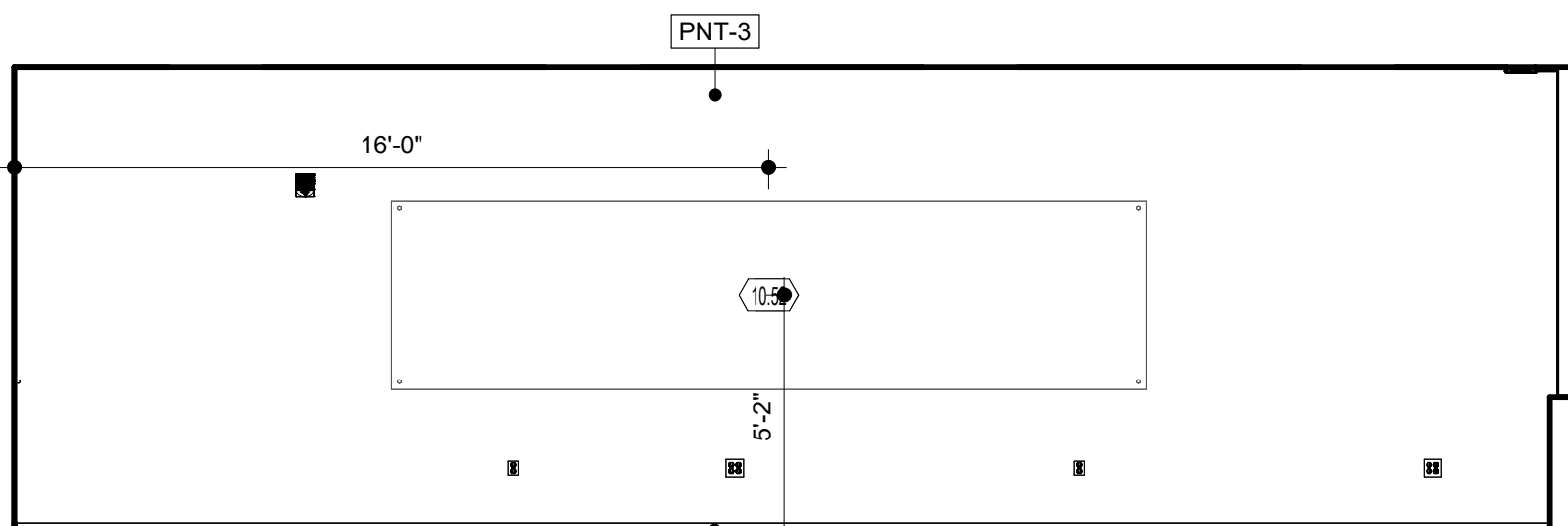
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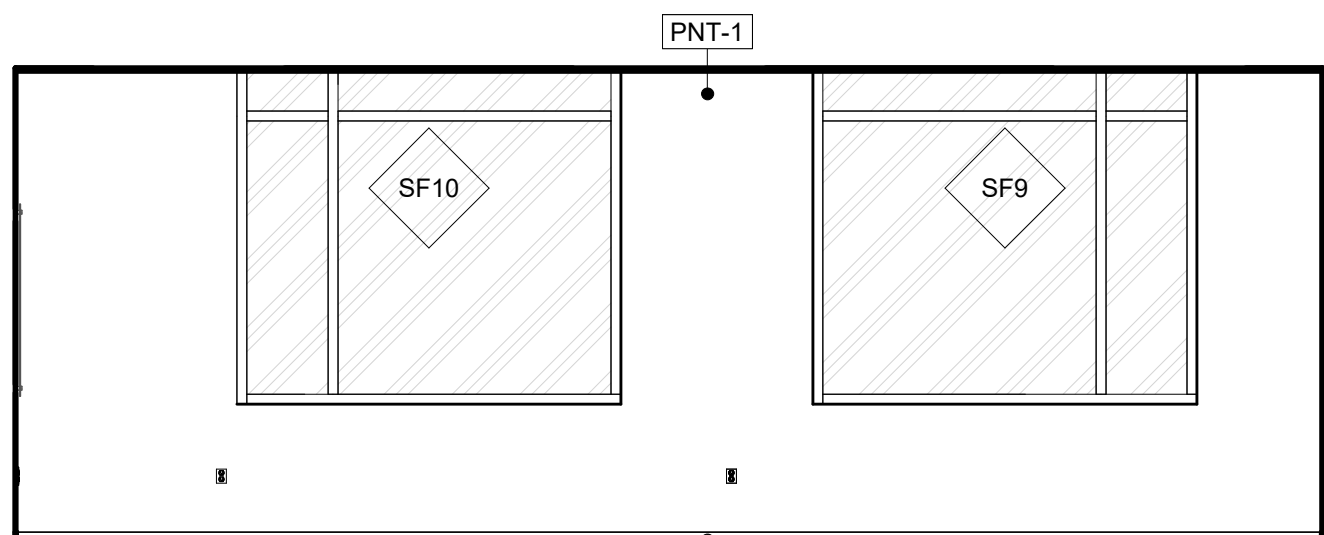
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27B



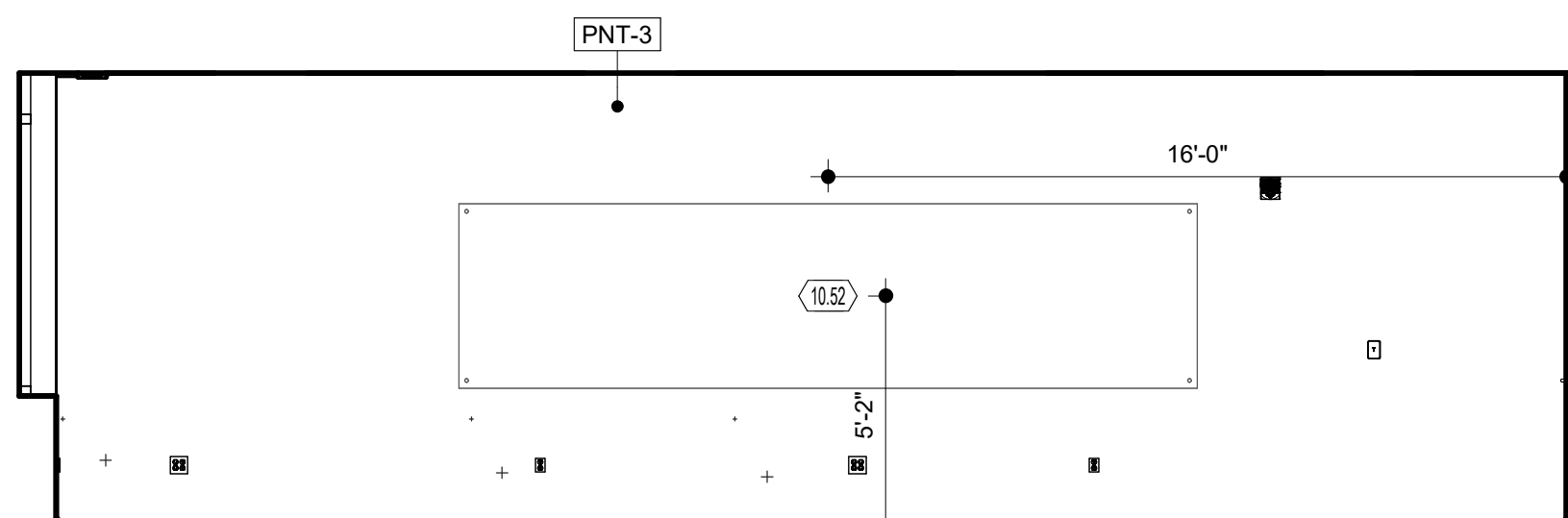
27C



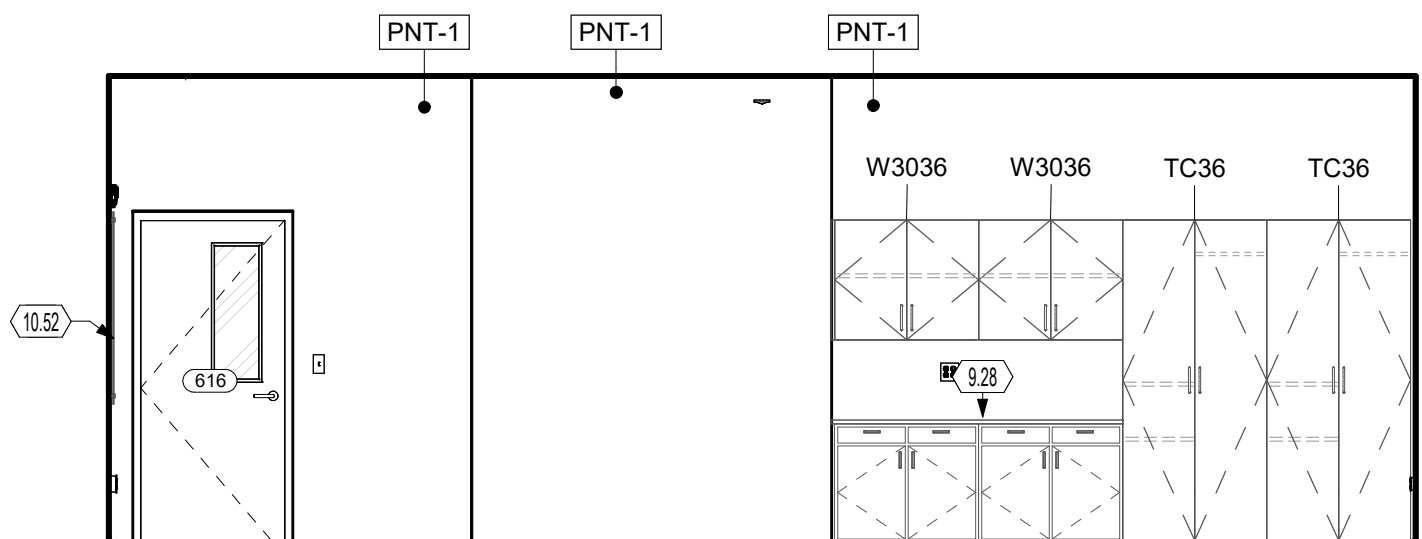
27D

27 CLASSROOM 617 INTERIOR ELEVATIONS

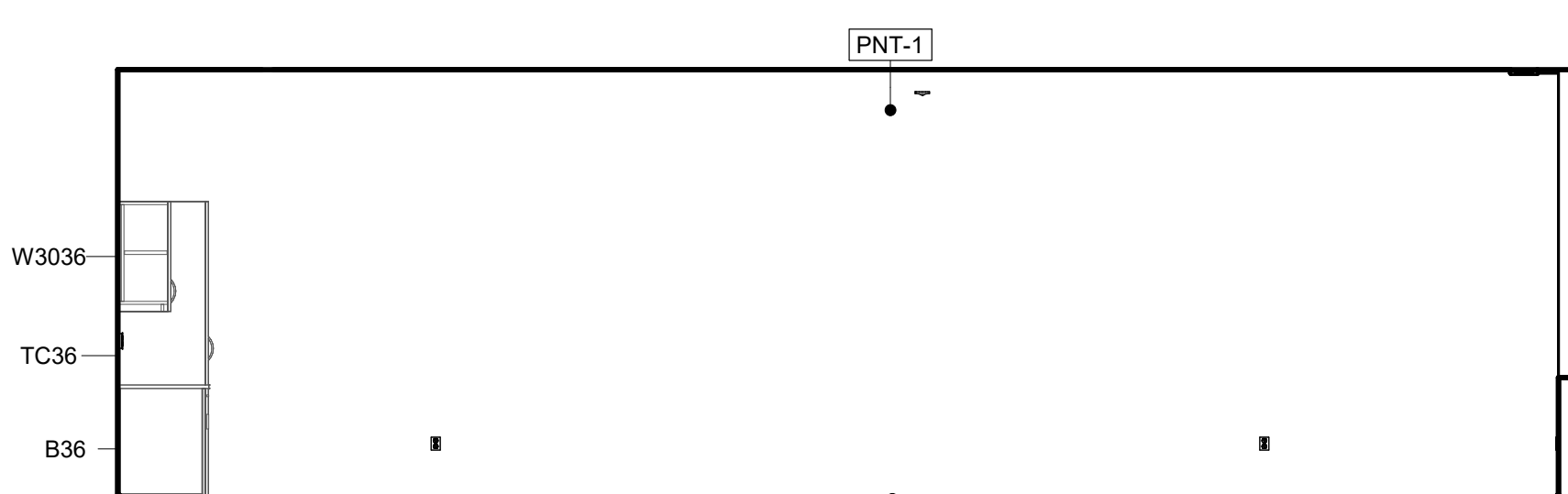
SCALE | 1/4" = 1'-0"



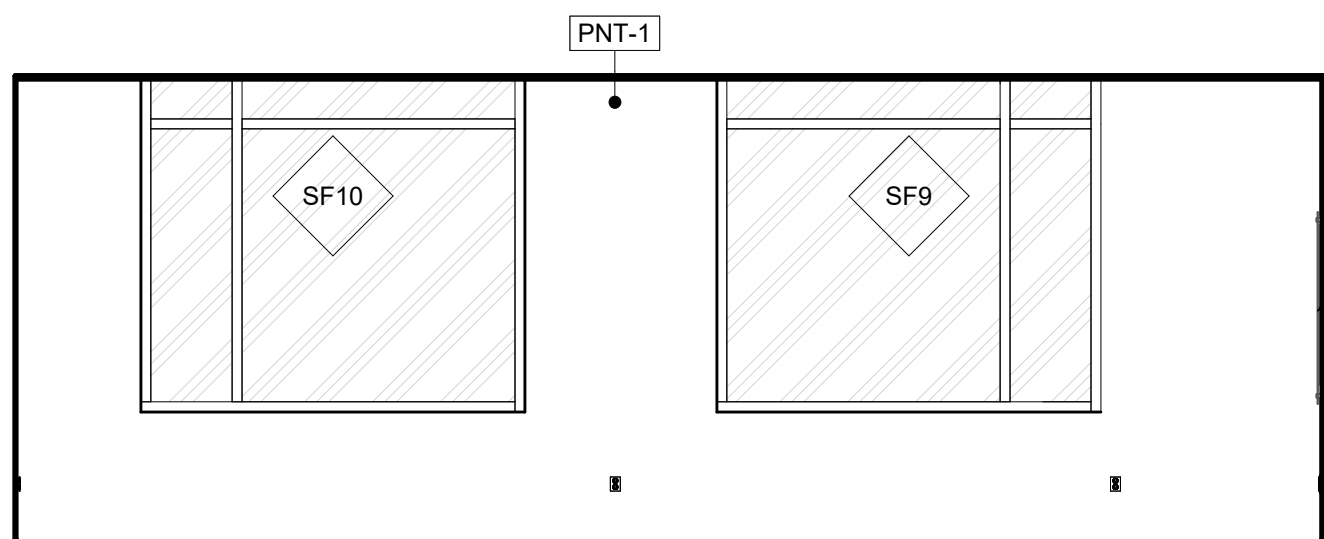
26A



26B



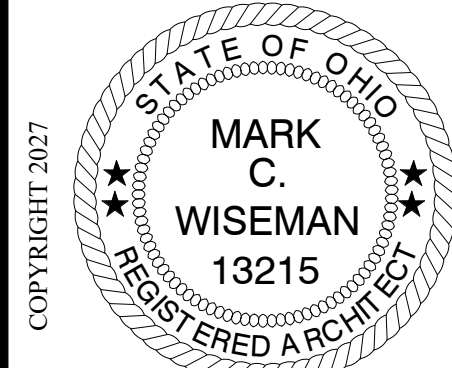
26C



26D

26 CLASSROOM 616 INTERIOR ELEVATIONS

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



Mark C. Wiseman, License #13215
Expiration Date 12/31/2027

Revisions:	Number	Description	Date

Printings:	Bid / Permit Set	Date

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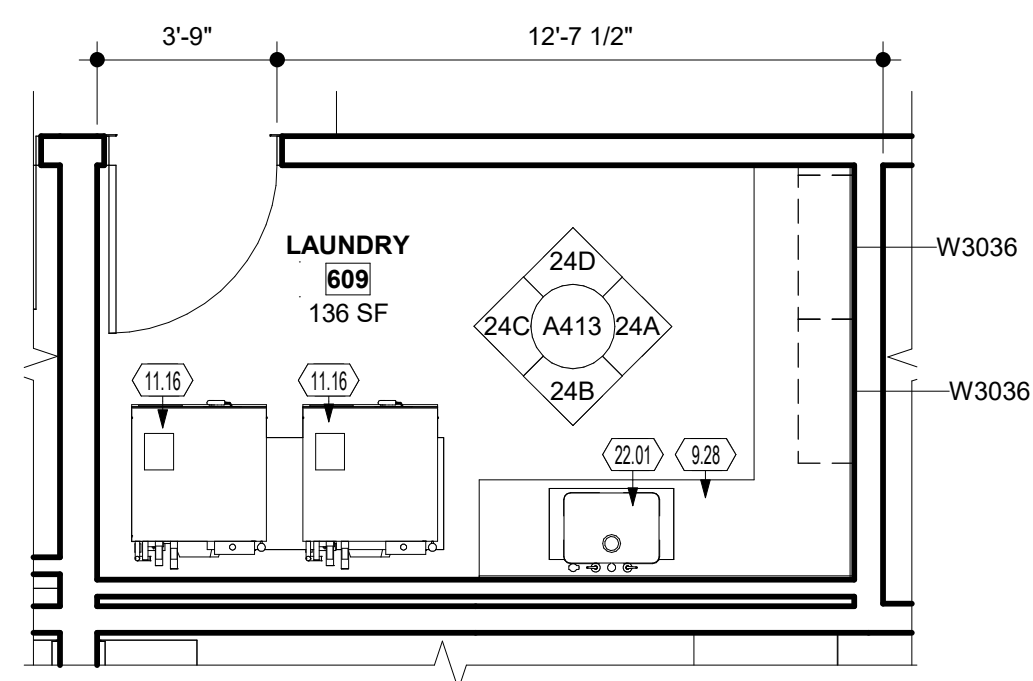


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DATE: 09/15/2025

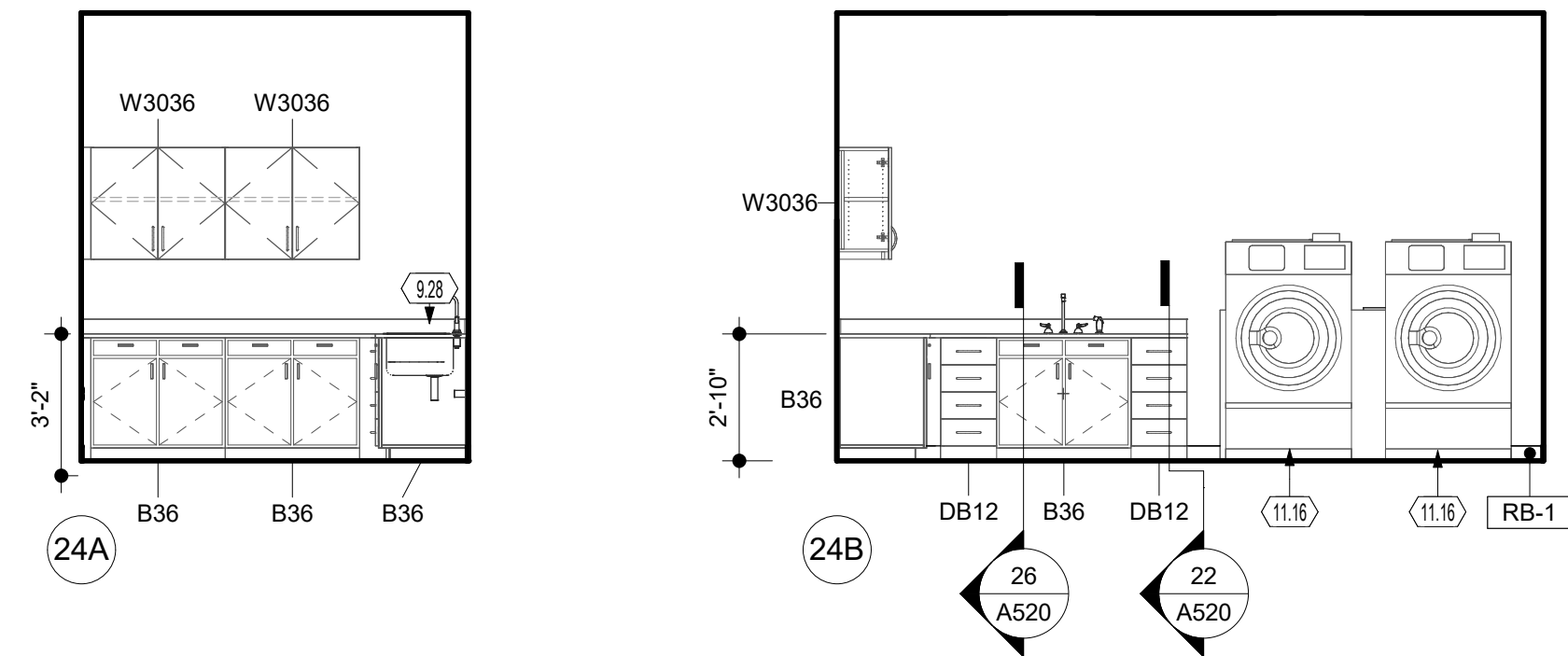
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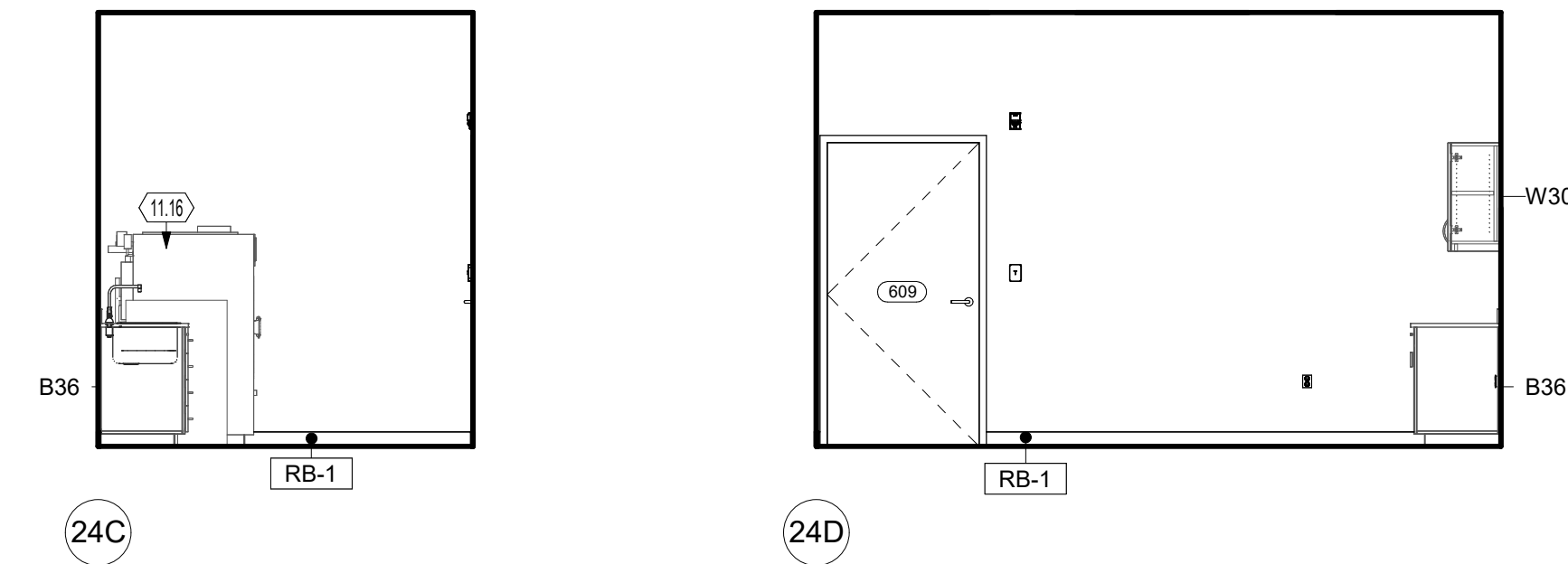
INTERIOR
ELEVATIONS
A412



29 ENLARGED LAUNDRY ROOM FLOOR PLAN



24 LAUNDRY ROOM ELEVATIONS



GENERAL NOTES - ELEVATIONS

- A. SEE G-002 FOR TYPICAL FURNITURE AND ACCESSORY MOUNTING HEIGHTS AND DIMENSIONS.
- B. SEE FINISH PLANS FOR ALL SCHEDULED FINISHES. CONTRACTOR TO COORDINATE FINAL WALL COLORS SELECTION WITH ARCHITECT AND OWNER PRIOR TO APPLICATION.
- C. PRIOR TO GYPSUM BOARD INSTALL ALL EXPOSED PENETRATIONS SHALL BE REVIEWED BY OWNER/ARCHITECT.
- D. PRIOR TO GYPSUM BOARD INSTALLATION AND ELECTRICAL ROUGH-IN INSPECTION, GENERAL CONTRACTORS, ELECTRICAL/DATA CONTRACTORS, AND ARCHITECT SHALL REVIEW IN-PLACE LOCATIONS OF ALL SWITCH BOXES, RECEPTACLE BOXES, FIRE ALARM BELL, ETC. FINAL LOCATIONS MAY BE ADJUSTED AT THIS TIME TO ALIGN OR COORDINATE WITH DESIGN INTENT.
- E. CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATIONS OF ELECTRICAL, PLUMBING AND MECHANICAL DEVICES WITH THE ARCHITECTURAL ITEMS. ELECTRICAL PLUMBING AND MECHANICAL DEVICES ARE TYPICALLY SHOWN SCHEMATICALLY ON THE PME DRAWINGS AND NOT INTENDED TO REPRESENT THEIR SPECIFIC LOCATION. PROVIDE ARCHITECTURAL DRAWINGS FOR WALL, MOUNTED EQUIPMENT OR FURNISHINGS AND ADJUST LOCATION OF PME DEVICES AS REQUIRED.

CASEWORK KEY

WALL CABINETS

W # X

↑ ↑ ↑

MODIFIER
CABINET WIDTH (INCHES)
CABINET HEIGHT (INCHES)
CABINET TYPE

BASE CABINETS

B#X

↑ ↑ ↑

MODIFIER
CABINET WIDTH (INCHES)
CABINET TYPE

CABINET TYPE

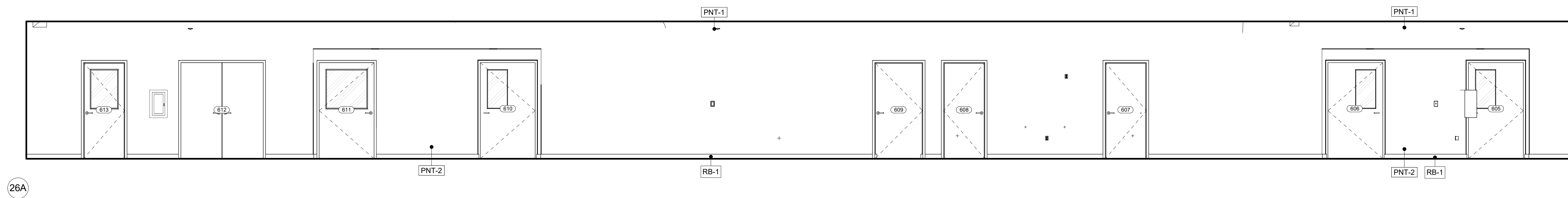
W - WALL CABINET
B - BASE CABINET
TC - TALL CABINET
DB - DRAWER BASE
SB - SINK BASE
MC - MICROWAVE CABINET
CH - TALL TEACHER CABINET
C - STUDENT CUBBIES

MODIFIER

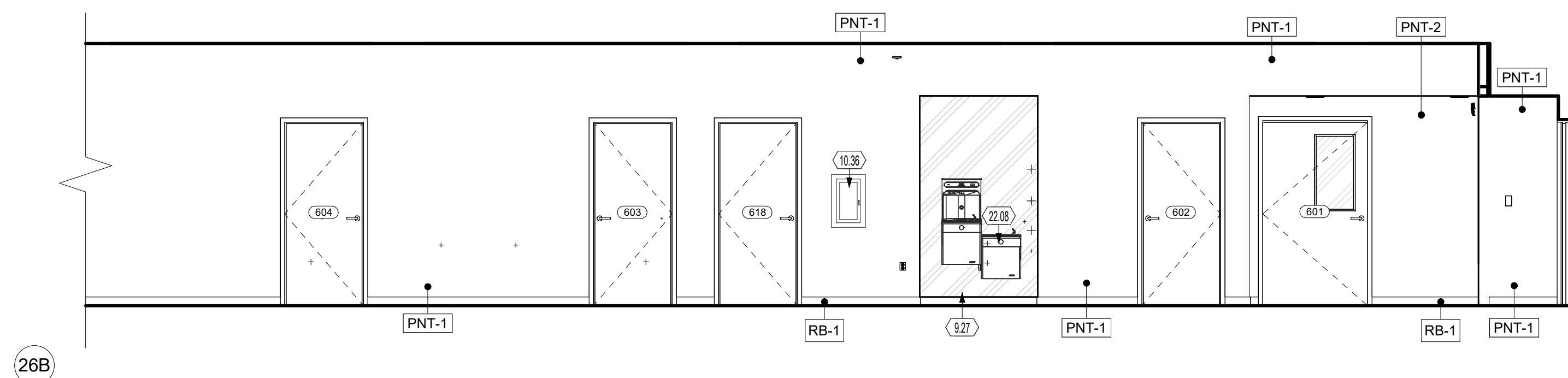
A - ADA HEIGHTS
D - WITH DRAWER
L - LOCKABLE
X - DATA CABINET
R - ADA HEIGHT WITH DRAWER
C - CORNER UNIT
N - ADA HEIGHT CORNER UNIT
S - DESK HEIGHT CORNER UNIT

KEYNOTES

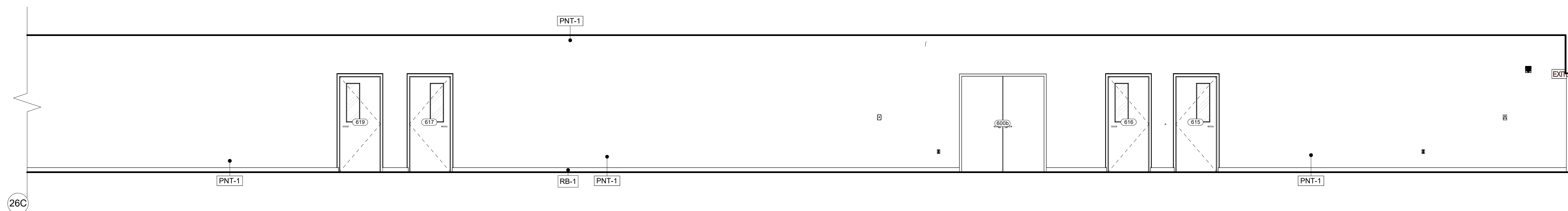
- | | |
|-------|---|
| 9.27 | STAINLESS STEEL BACKSPLASH: PROVIDE 18 GA. TYPE 304 STAINLESS STEEL SHEET, BRUSHED FINISH, AT BACKSIDE OF DRINKING FOUNTAIN; HEM ALL EXPOSED EDGES. MINIMIZE SEAMS. WELD OR SEAL FLUSH; INSTALL PLUMB WITH CONCEALED ATTACHMENT; SEAL PERIMETER |
| 9.28 | SOLID SURFACE COUNTERTOP: SEE SCHEDULE |
| 10.36 | FIRE EXTINGUISHING CABINET: RECESSED CABINET |
| 11.16 | WASHER/DRYER: SEE ELECTRICAL PLUMBING DRAWINGS |
| 22.01 | SOLID SURFACE COUNTERTOP AND UNDERMOUNT SINK, WITH PLASTIC LAMINATE SINK BASE. |
| 22.08 | HI-LOW DRINKING FOUNTAIN WITH BOTTLE FILTERS PER ADA GUIDELINES. SEE PLUMBING DRAWINGS. |



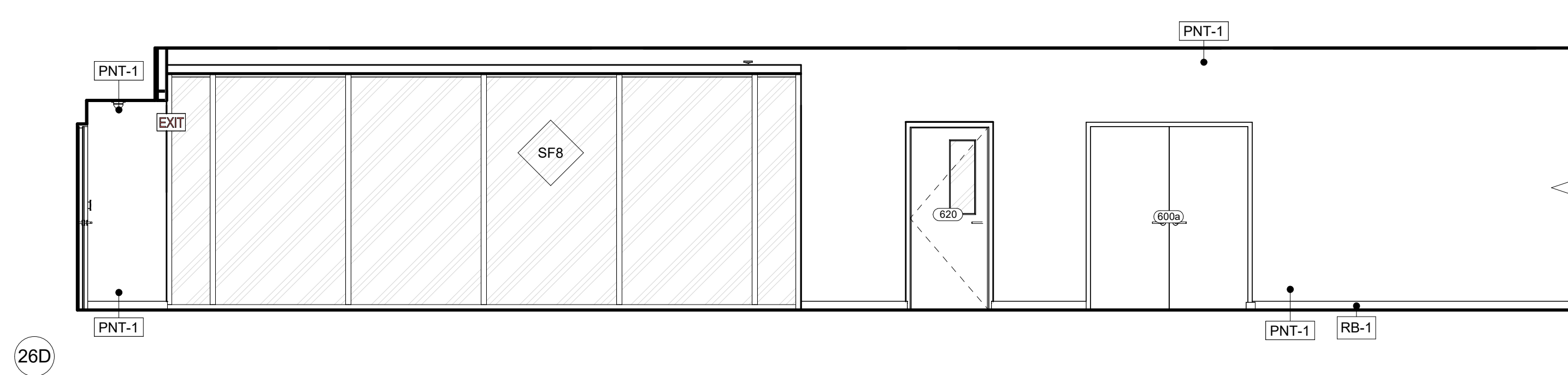
26A



26B



26C



26D

26 CORRIDOR ELEVATIONS

[illegible]

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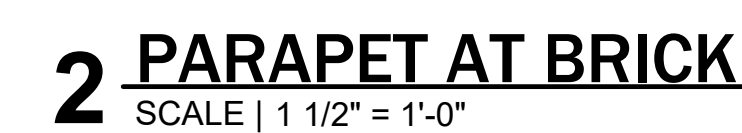
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PROJECT
#263306.00
CHECKED BY:
Checker
DRAWN BY:
Author
DATE:
09.15.2026

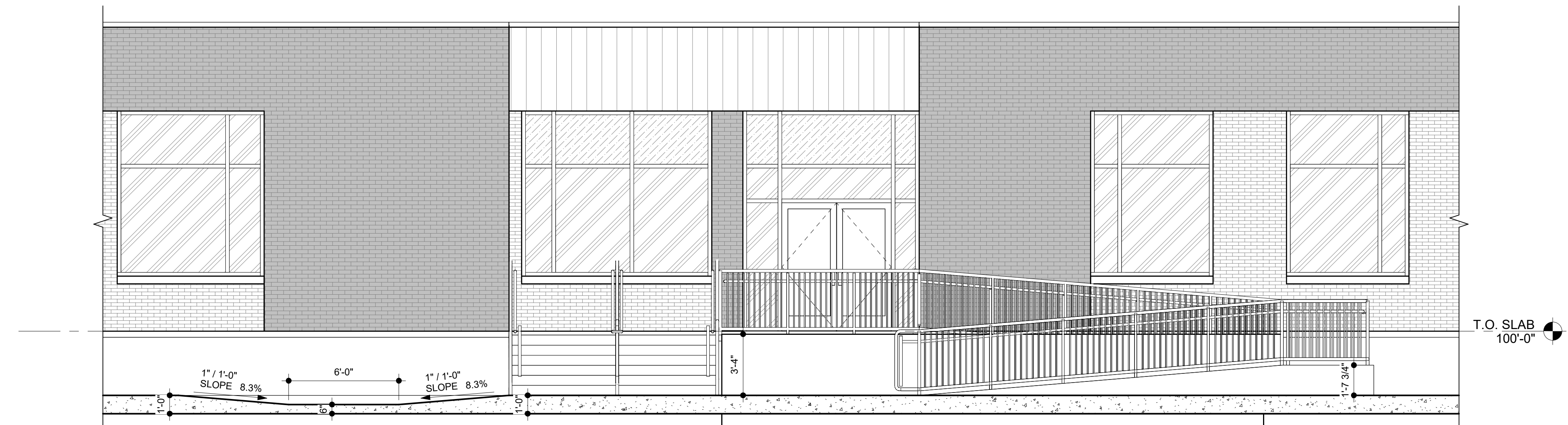
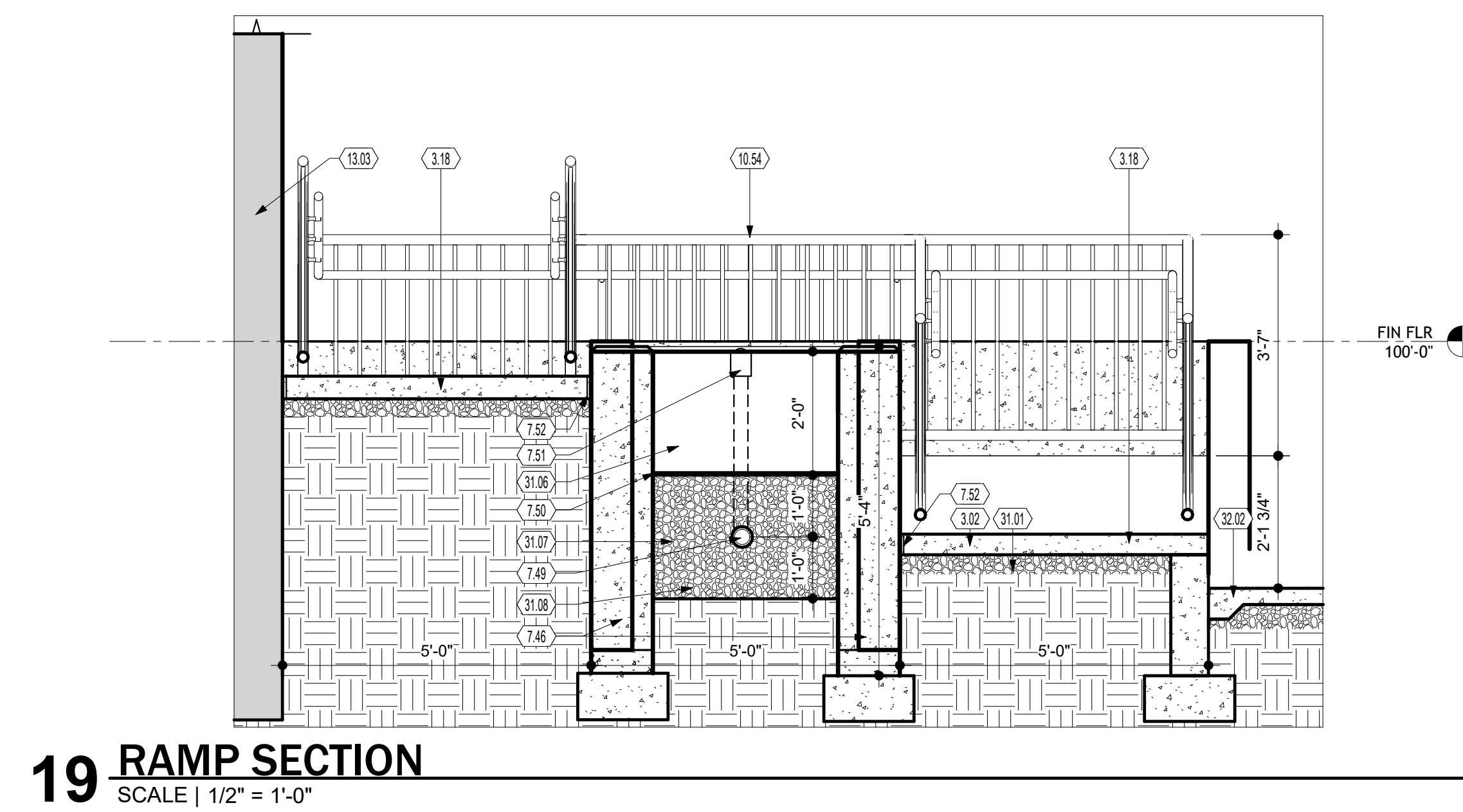
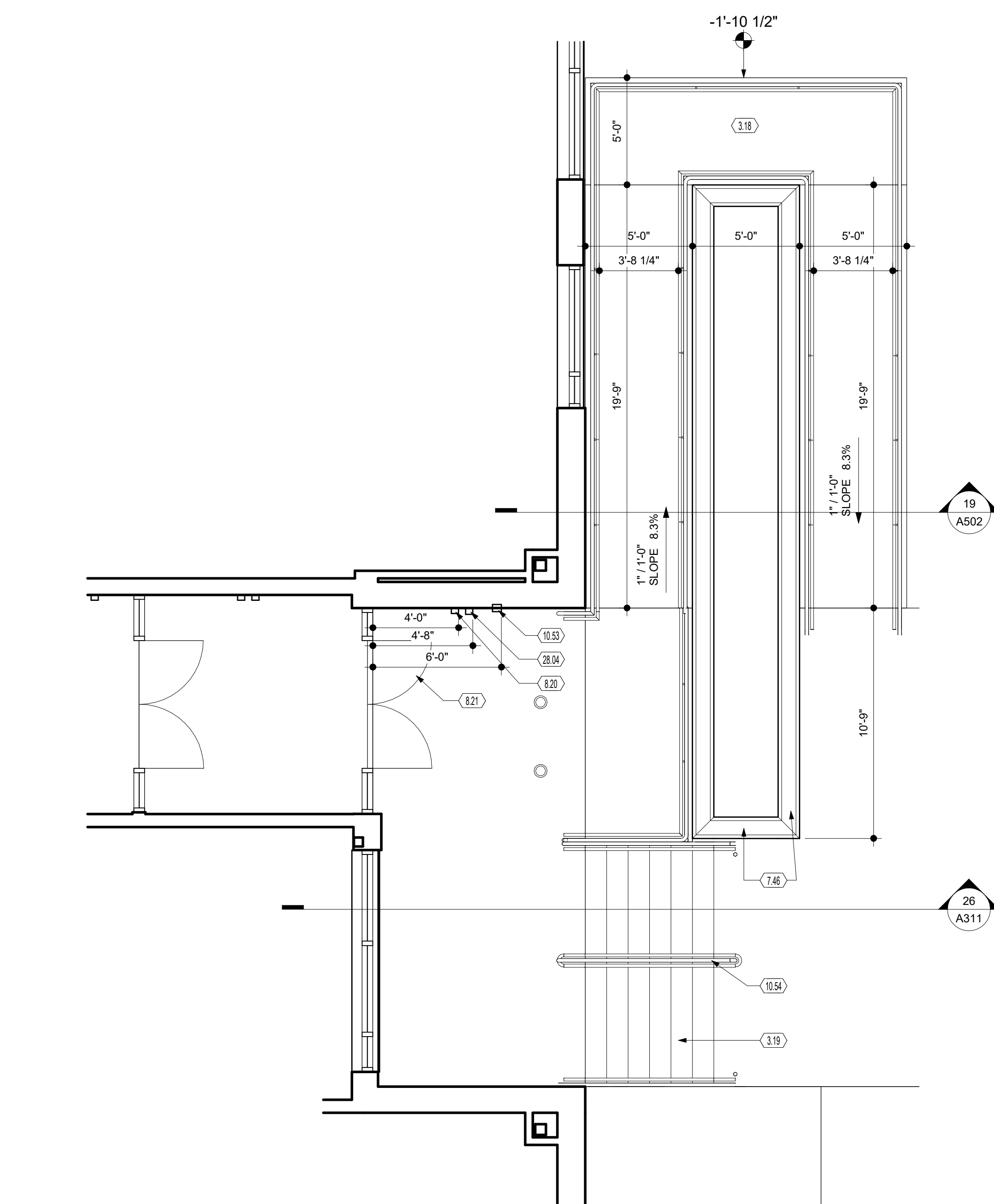
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Levin Porter Associates Inc. dba Levin Porter Architects



INTERIOR ELEVATIONS

A413





- # KEYNOTES
- | | |
|-------|--|
| 3.02 | NEW SLAB ON GRADE. REFER TO STRUCTURAL DRAWINGS FOR REINFORCEMENT. |
| 3.16 | ADA CONCRETE RAMP AND SST HANDRAIL. |
| 3.19 | CONCRETE STAIRS AND SST HANDRAIL. |
| 7.46 | POURED CONCRETE WALLS WITH 1" CHAMFERED EDGES. |
| 7.49 | 4" DIA. PERFORATED ADS DRAIN. |
| 7.50 | LANDSCAPE DRAINAGE FABRIC. |
| 7.51 | 12" NDS YARD DRAIN WITH DOMED GRATE. |
| 7.52 | 1/2" COMPRESSIBLE FILLER JOINT. |
| 8.20 | EXTERIOR WALL ADA ACTUATOR. MOUNT 44" AFF TO CENTER. |
| 8.21 | THIS IS THE ACTIVE LEAF ACCESS CONTROLLED WITH THE AUTOMATIC OPERATOR. |
| 10.53 | RECTANGULAR KNOX BOX. MOUNT 60" AFF. |
| 10.54 | ALUMINUM RAILING. |
| 13.03 | EDGE OF BUILDING. |
| 28.04 | CARD READER. MOUNT 44" AFF TO CENTER. |
| 31.01 | 6" COMPACTED GRAVEL OVER COMPACTED EARTH |
| 31.06 | TOPSOIL. |
| 31.07 | CLEAN WASHED GRAVEL. |
| 31.08 | COMPACTED EARTH. |
| 32.02 | SIDEWALK. SEE CIVIL DRAWINGS |

[illegible][illegible]

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EXTERIOR DETAILS

A502

WALL CABINETS

W # X #

MODIFIER
CABINET WIDTH (INCHES)
CABINET HEIGHT (INCHES)
CABINET TYPE

CABINET TYPE

W - WALL CABINET
B - BASE CABINET
TC - TALL CABINET
DB - DRAWER BASE
SB - SINK CABINET
MC - MICROWAVE CABINET
CH - TALL CHINA CUPBOARD CABINET
C - STUDENT CUBBIES

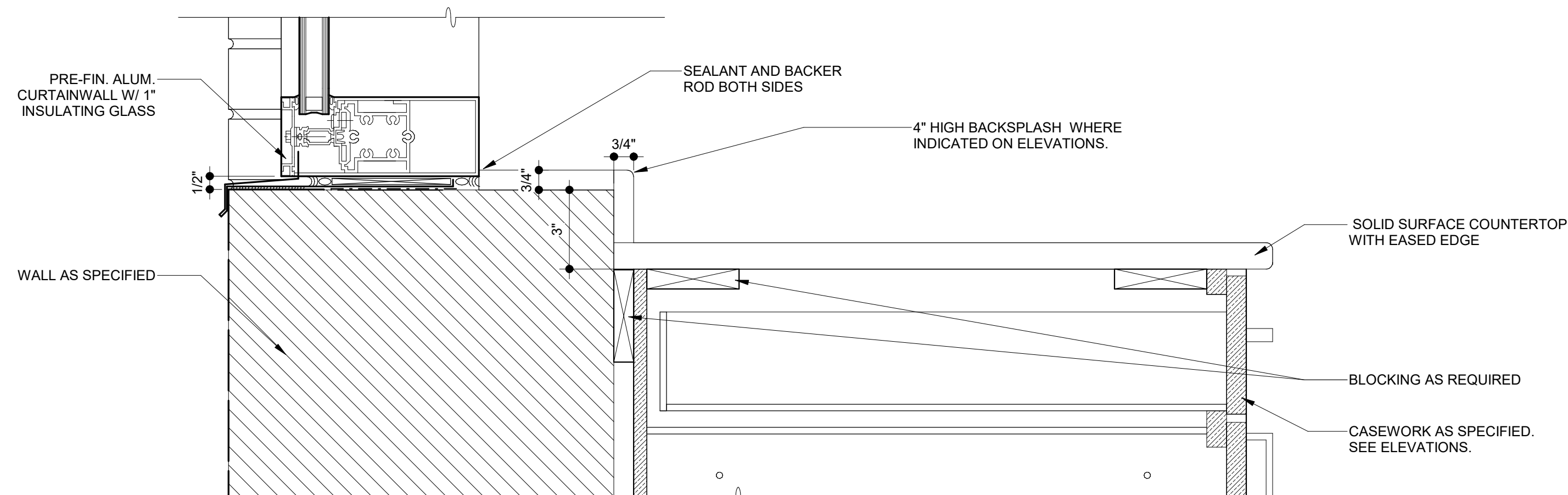
BASE CABINETS

B # X #

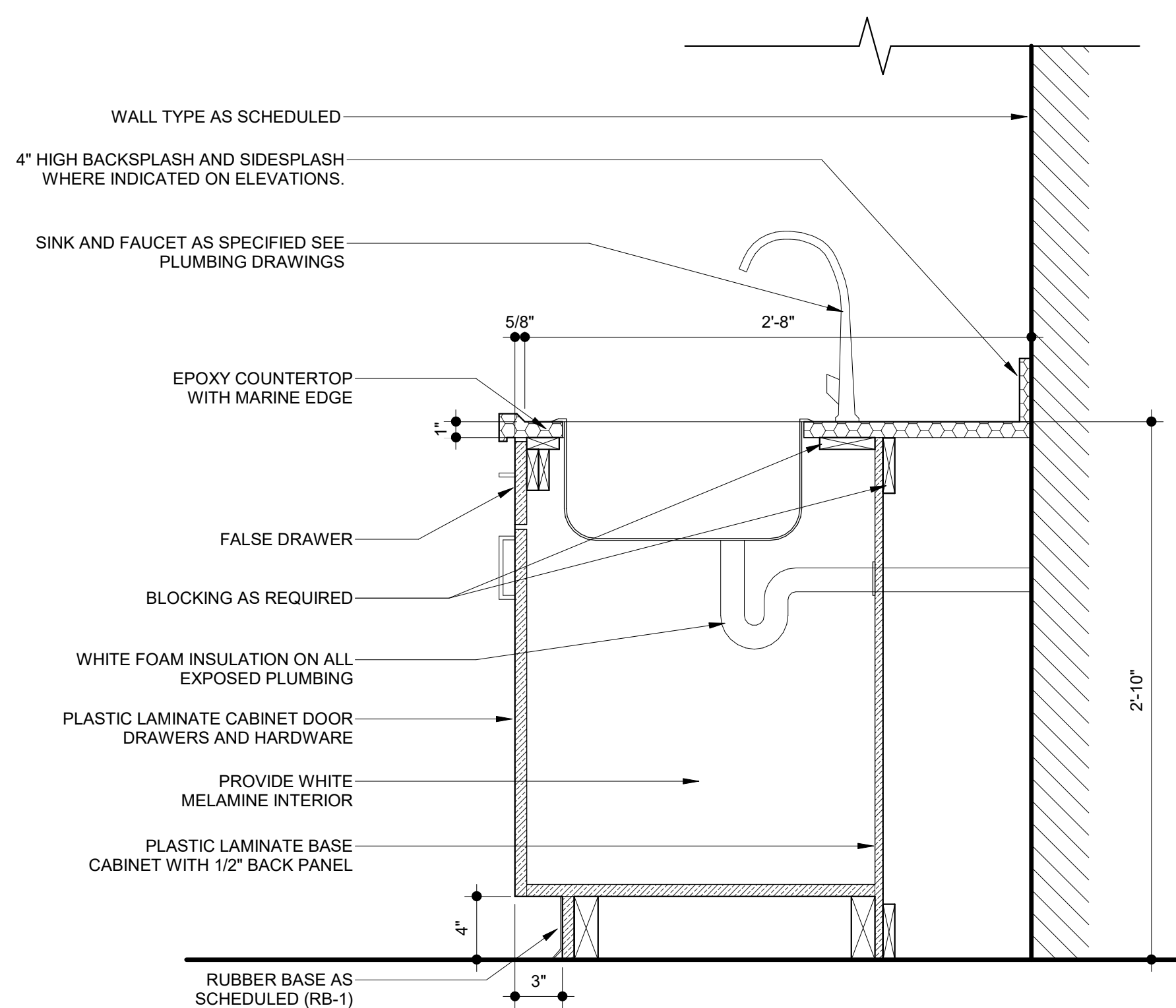
MODIFIER
CABINET WIDTH (INCHES)
CABINET TYPE

MODIFIER

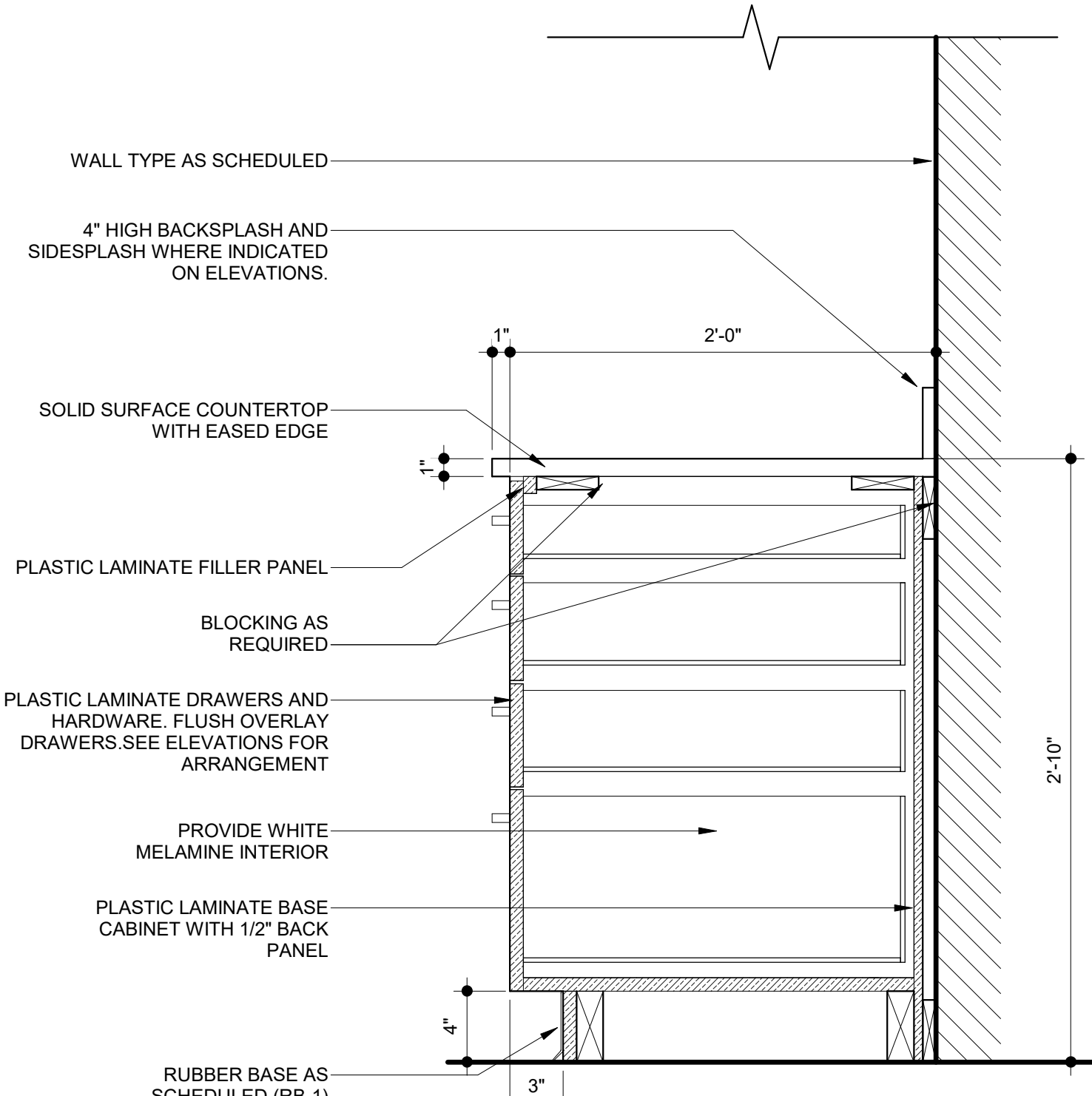
A - ADA HEIGHTS
D - WITH DRAWER
L - LOCKABLE
X - DATA CABINET
R - ADA HEIGHT WITH DRAWER
C - CORNER UNIT
N - ADA HEIGHT CORNER UNIT
S - DESK HEIGHT CORNER UNIT



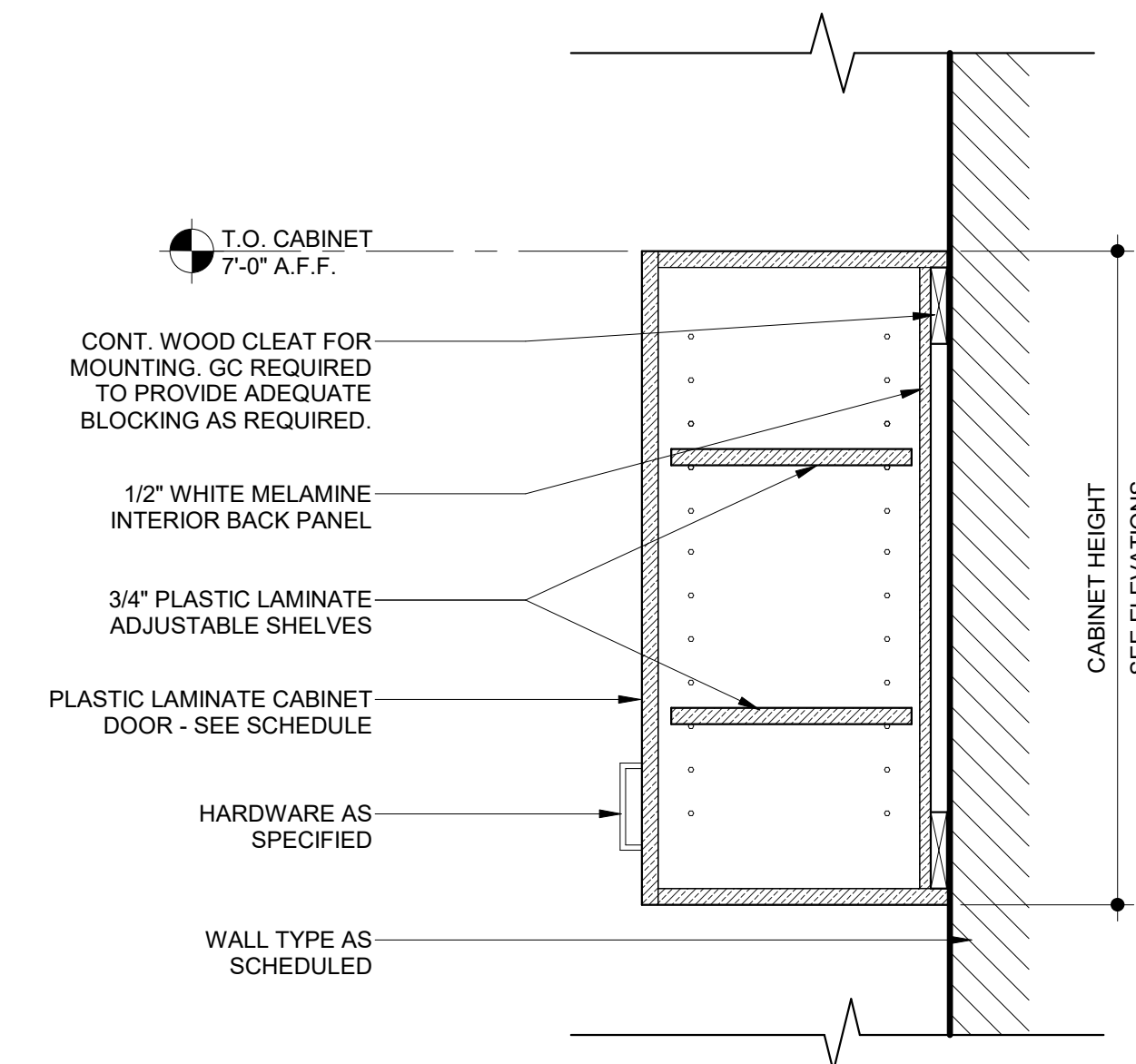
29 CASEWORK TO STOREFRONT SILL @ BRICK
SCALE | 3" = 1'-0"



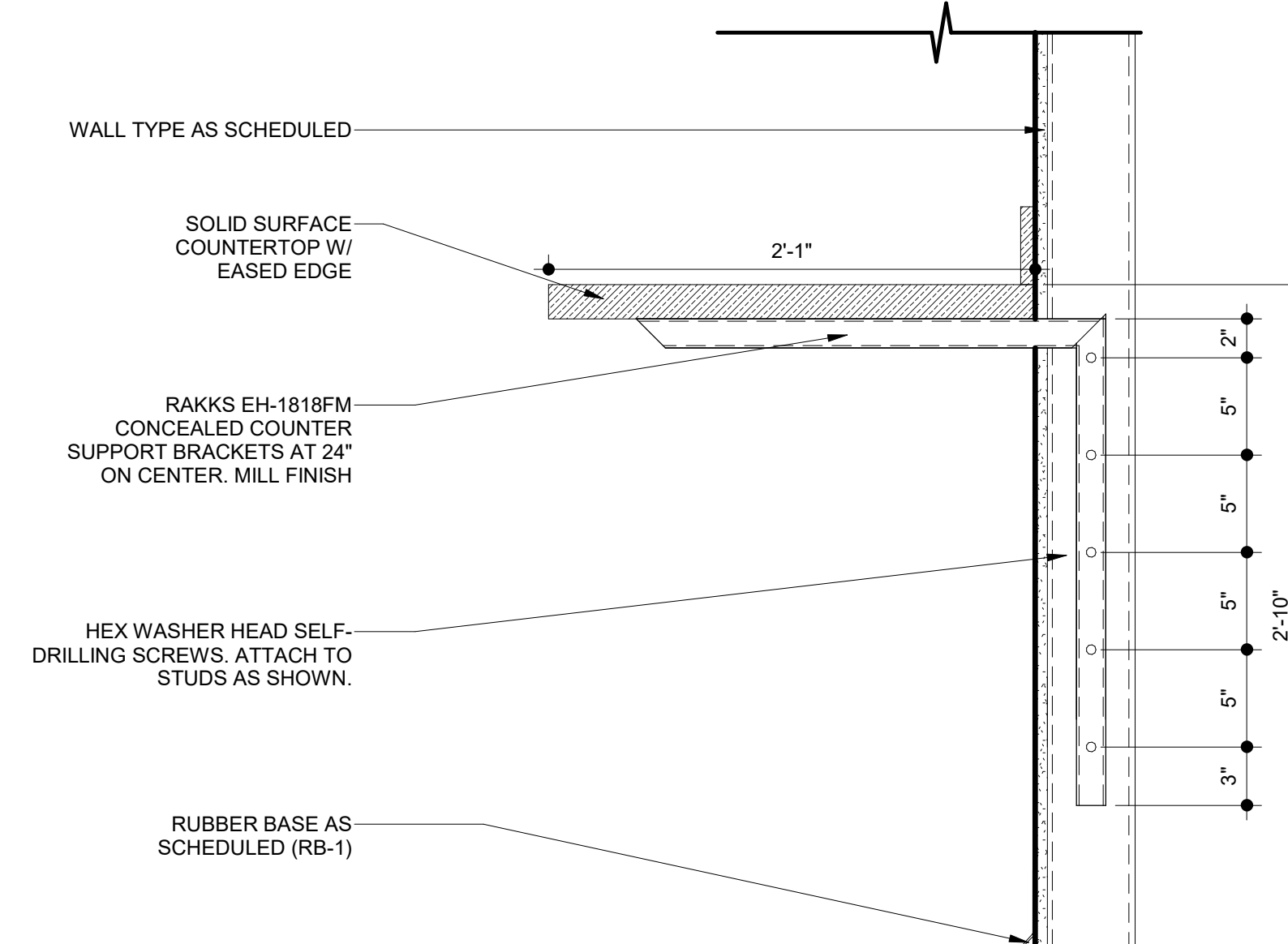
27 EPOXY TOP BASE CABINET W/ SINK



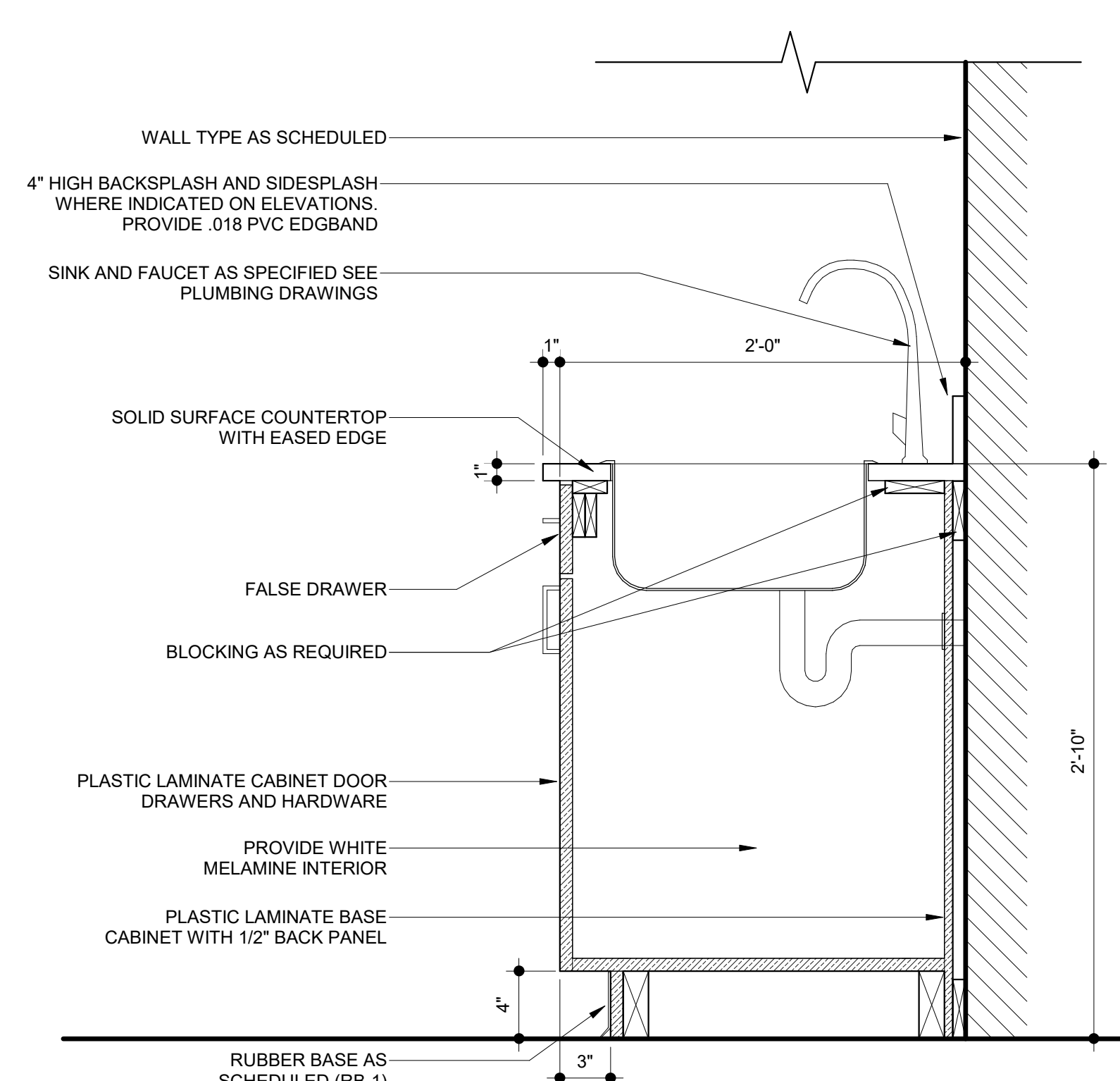
22 BASE CABINET W/ DRAWERS



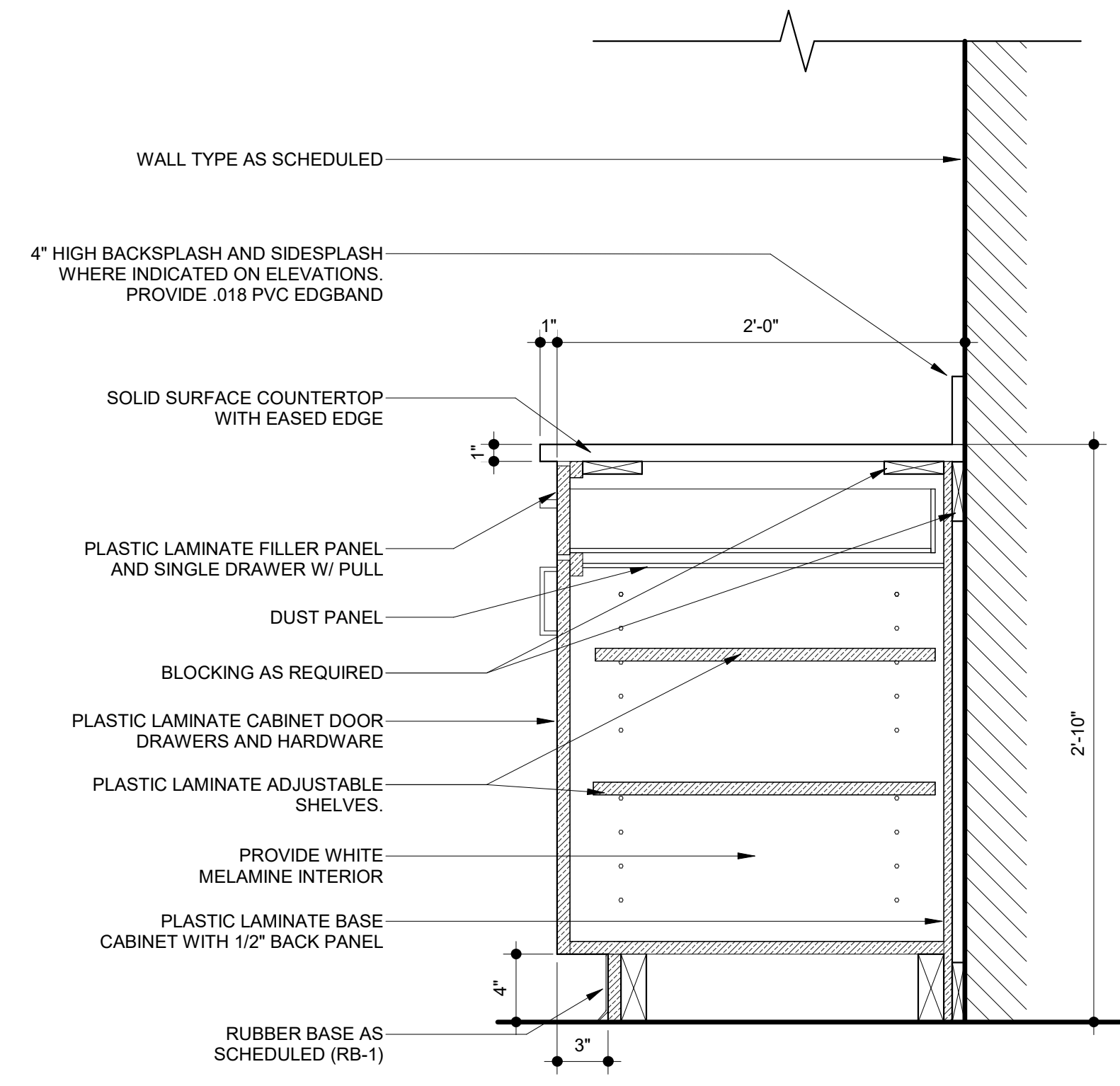
12 WALL CABINET



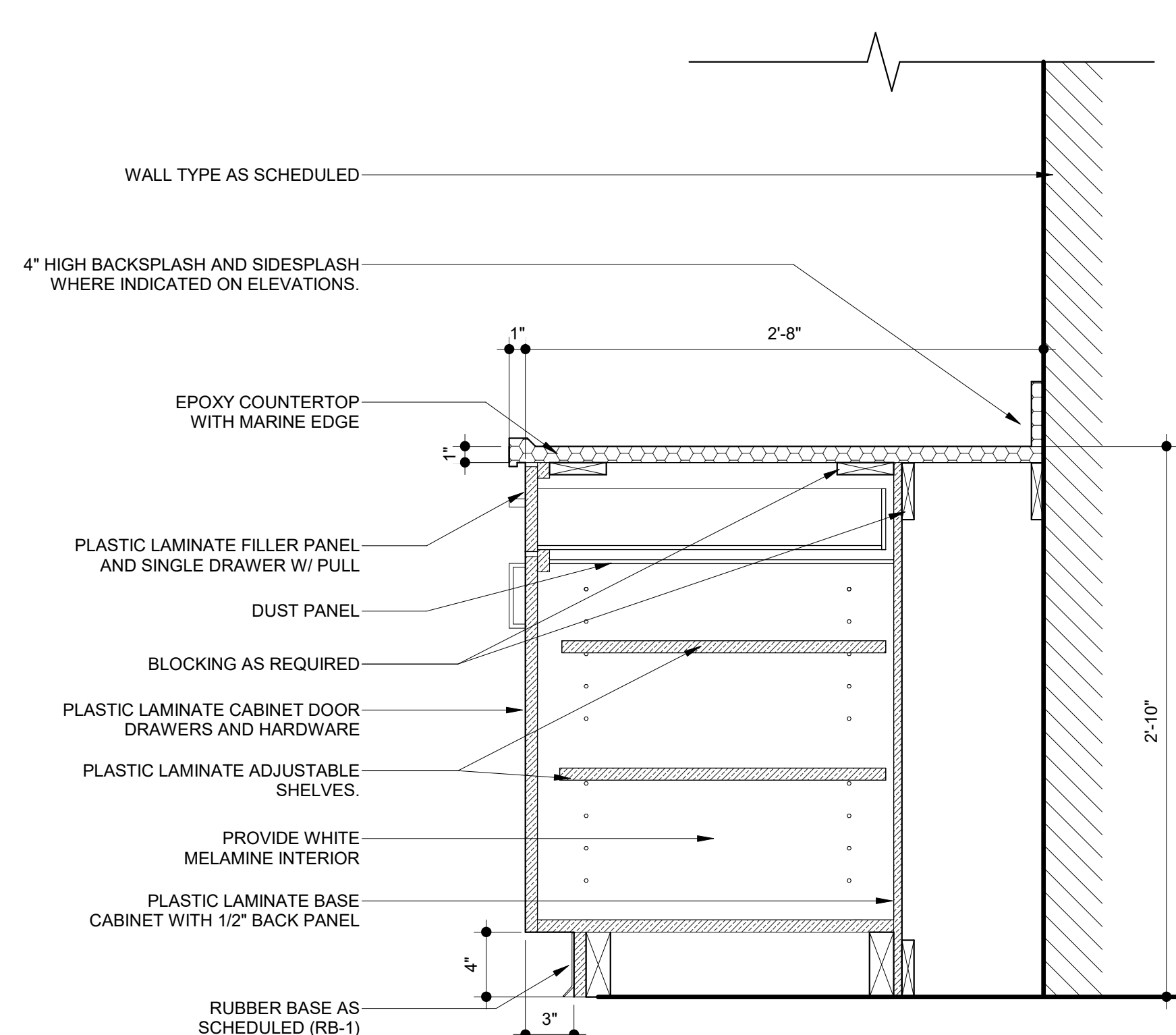
8 COUNTER ON SUPPORT BRACKETS



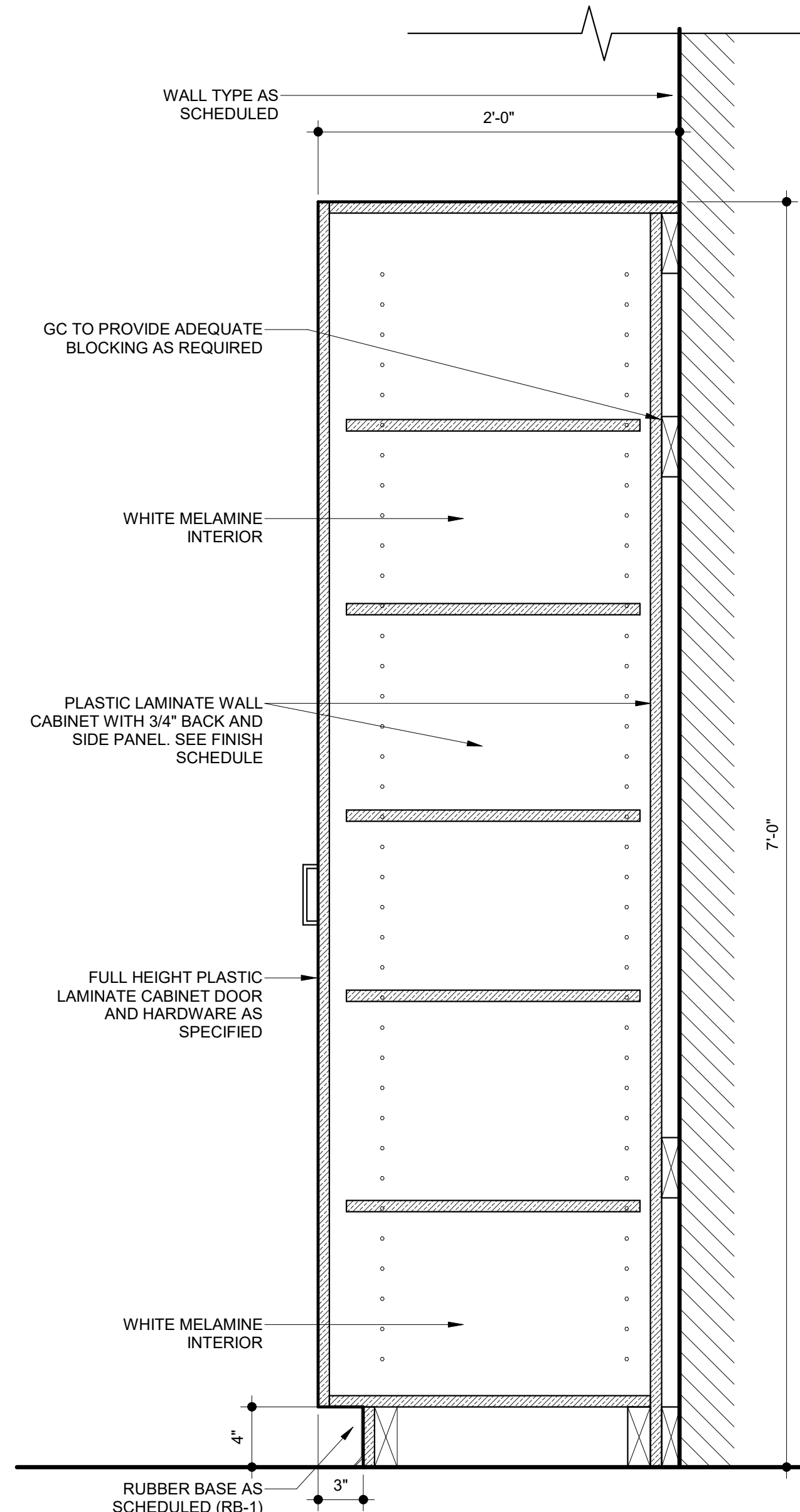
26 BASE CABINET W/ SINK



21 BASE CABINET W/ DOOR AND DRAWER



11 BASE CABINET W/ CHASE



6 CASEWORK TALL CABINET - ADJUSTABLE SHELVES

DR #	ROOM	DOOR				FRAME				DETAILS		DOOR - HARDWARE SET	FIRE RATING	ACCESS CONTROL	NOTES
		#	TYPE	WIDTH	HEIGHT	THICK	MATERIAL	FINISH	TYPE	MATERIAL	FRAME FINISH				
600	600	DF	6'-0"	7'-0"	1 3/4"	HM	PNT-7	F1	HM	PNT-7	28	27	10		
600a	600	DF	6'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	6		
600b	600B	DF	6'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	10		
601	601	VG	4'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	1		
602	602	F	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	2		
603	603	F	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	5		
604	600	F	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	5		
605	600	VG	4'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	1		
605a	605a	F	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	4		
606	600	VG	4'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	1		
606a	606a	F	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	4		
607	607	F	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	5		
608	600	F	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	5		
608	608	F	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	2		
610	600	VG	4'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	1		
610a	610a	F	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	4		
611	611	HG	4'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	1		
611a	611a	F	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	4		
612	600	DF	6'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	1		
613	613	HG	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	2		
614a		DFG	5'-11 1/2"	7'-0"	1 3/4"	ALUM	CLR-1	SF	ALUM	CLR-1	30	29	7		
614b	614	DFG	5'-11 1/2"	7'-0"	1 3/4"	ALUM	CLR-1	SF	ALUM	CLR-1	30	29	8		
615	615	EG	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	2		
616	608	GG	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	2		
617	617	GG	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	2		
618	618	F	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	3		
619	600	GG	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	2		
620	620	GG	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	2		
621	588	FG	3'-7"	7'-0"	1 3/4"	ALUM	CLR-1	SF13	ALUM	CLR-1					

The image displays 13 architectural facade configurations, labeled SF1 through SF13, arranged in three rows. Each configuration shows a section of a building facade with various window and door units, including their dimensions and material specifications.

- SF1:** A wide facade section with a total height of 12'-0" and a total width of 35'-0". It features a grid of glass panels (GL-1) with dimensions ranging from 1'-7 1/4" to 6'-3 1/2".
- SF2:** A wide facade section with a total height of 12'-0" and a total width of 35'-0". It features a grid of glass panels (GL-1) with dimensions ranging from 1'-7 1/4" to 6'-3 1/2".
- SF3:** A facade section with a total height of 12'-0" and a total width of 35'-0". It features a grid of glass panels (GL-1) with dimensions ranging from 1'-7 1/4" to 6'-3 1/2".
- SF4:** A facade section with a total height of 12'-0" and a total width of 35'-0". It features a grid of glass panels (GL-1) with dimensions ranging from 1'-7 1/4" to 6'-3 1/2".
- SF5:** A facade section with a total height of 12'-0" and a total width of 35'-0". It features a grid of glass panels (GL-1) with dimensions ranging from 1'-7 1/4" to 6'-3 1/2".
- SF6:** A facade section with a total height of 12'-0" and a total width of 35'-0". It features a grid of glass panels (GL-1) with dimensions ranging from 1'-7 1/4" to 6'-3 1/2".
- SF7:** A facade section with a total height of 12'-0" and a total width of 35'-0". It features a grid of glass panels (GL-1) with dimensions ranging from 1'-7 1/4" to 6'-3 1/2".
- SF8:** A facade section with a total height of 12'-0" and a total width of 35'-0". It features a grid of glass panels (GL-1) with dimensions ranging from 1'-7 1/4" to 6'-3 1/2".
- SF9:** A facade section with a total height of 12'-0" and a total width of 35'-0". It features a grid of glass panels (GL-1) with dimensions ranging from 1'-7 1/4" to 6'-3 1/2".
- SF10:** A facade section with a total height of 12'-0" and a total width of 35'-0". It features a grid of glass panels (GL-1) with dimensions ranging from 1'-7 1/4" to 6'-3 1/2".
- SF11:** A facade section with a total height of 12'-0" and a total width of 35'-0". It features a grid of glass panels (GL-1) with dimensions ranging from 1'-7 1/4" to 6'-3 1/2".
- SF12:** A facade section with a total height of 12'-0" and a total width of 35'-0". It features a grid of glass panels (GL-1) with dimensions ranging from 1'-7 1/4" to 6'-3 1/2".
- SF13:** A facade section with a total height of 12'-0" and a total width of 35'-0". It features a grid of glass panels (GL-1) with dimensions ranging from 1'-7 1/4" to 6'-3 1/2".

Technical drawings of eight door styles: F, FG, DFG, DF, DHG, H, VG, and HG. Each drawing shows a side elevation with dimensions and references to a schedule. FG has a height of 7'-0". VG has a width of 2'-6". A legend indicates 'T' for tempered glass.

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

SEE SCHEDULE

2"

2"

2"

2"

SEE SCHEDULE

SEE SCHEDULE

SEE SCHEDULE

F1

F2

- A. DOUBLE STUDS AT ALL DOOR OPENINGS.
- B. SEAL JOINTS BETWEEN FINISH MATERIAL AND FRAME AT BOTTOM OF DOOR FRAMES
- C. CONTRACTOR TO VERIFY ALL FLOOR TO FLOOR TRANSITIONS THROUGHOUT BUILDING. FLOOR MATERIAL CHANGES OCCUR AT CENTERLINE OF DOOR.

Hardware Set No. 1
Single door, classroom-48", access control.
Doors: 601, 605, 606, 610, 611

- 4 EA BB-Butt Hinges
- 1 EA Mortise Lockset – Storage Function
- 1 EA Cylinder
- 1 EA SFC Core (verify with existing)
- 1 EA Electric Strike
- 1 EA Closer with stop arm
- 1 EA Wall stop
- 2 EA Kickplate
- 1 EA Door Contact

Note: Card Reader, Power Supply (Remote)
Operation: Door remains latched and locked unless credentials presented to reader. Proper credential activates electric strike which unlatches the door. Exterior lockset remains locked.
Key access via exterior. Free egress at all times from the interior. Door is fail secure.

Hardware Set No.2

Single door, access control.
Doors: 615, 616, 617, 619, 620, 602, 608, 613

- 3 EA BB-Butt Hinges
- 1 EA Mortise Lockset – Storage Function
- 1 EA Cylinder
- 1 EA SFIC Core (verify with existing)
- 1 EA Electric Strike
- 1 EA Closer with stop arm
- 1 EA Wall stop
- 2 EA Kickplate
- 1 EA Door Contact

Note: Card Reader, Power Supply (Remote)
Operation: Door remains latched and locked unless credentials presented to reader. Proper credential activates electric strike which unlatches the door. Exterior lockset remains locked. Key access via exterior. Free egress at all times from the interior. Door is fail secure.

Hardware Set No.3
Single door, storage function.

- Doors: 618
- | | |
|---|---------------------------------------|
| 3 | EA BB-Butt Hinges |
| 1 | EA Mortise Lockset – Storage Function |
| 1 | EA Cylinder |
| 1 | EA SFIC Core (verify with existing) |
| 1 | EA Closer with stop arm |
| 1 | EA Wall stop |
| 2 | EA Kickplate |

Hardware Set No.4
Single door, classroom function.
Doors: 605a, 606a, 610a, 611a

- 3 EA BS-Butt Hinges
- 1 EA Mortise Lockset – classroom Function
- 1 EA Cylinder
- 1 EA SFIC Core (verify with existing)
- 1 EA Closer with stop arm
- 1 EA Wall stop
- 2 EA Kickplate

Single door (restrooms). Storage function with indicator

- Doors: 603, 604, 607, 608
- 3 EA BB-Butt Hinges
 - 1 EA Mortise Lockset – Storage with DB & OCC indicator.
 - 1 EA Cylinder
 - 1 EA SFIC Core (verify with existing)
 - 1 EA Electric Strike
 - 1 EA Closer with stop arm
 - 1 EA Wall stop
 - 2 EA Kickplate
 - 1 EA Door Contact

Note: Card Reader, Power Supply (Remote)
Operation: Door is normally closed and locked. Valid credential presentation releases electric strike for entry. When room is occupied, deadbolt is thrown by inside thumbturn disallowing entry, and exterior indicator displays occupied status. Free egress at all times. Upon loss of power door remains locked (fail-secure).

Hardware Set No.6

Double door, storage function
Doors: 600a, 600b

- 6 EA BB-Butt Hinges
- 1 EA Mortise Lockset – storage Function
- 1 EA Cylinder
- 1 EA SFIC Core (verify with existing)
- 1 EA Astragal 550-NGP
- 2 EA Manual flush bolts 3913/3915 TRM top and bottom
- 1 EA Dust proof strike 3910 TRM
- 2 EA Overhead stop with hold-open OH902H ROC
- 4 EA Kickplate

Hardware Set No. 7

Double aluminum entrance, exterior.
Door: 614a

- 1 EA Continuous Hinge
- 1 EA Continuous Hinge x EPT
- 1 EA Panic device with motorized latch retraction, exposed vertical rods, LBR, LD
- 1 EA Cylinder
- 1 EA SFIC Core (verify with existing)
- 1 EA Panic device with exposed vertical rods, LBR, LD, EO
- 2 EA Top Strike
- 1 EA Power Transfer EPT-12-C
- 1 Set Door pulls by manufacturer
- 1 EA Astragal by door manufacturer
- 1 EA Door sweep 200N
- 1 EA Weather strip kit by door manufacturer
- 1 EA Closer with stop arm
- 1 EA Automatic operator
- 2 EA Push plate-wall Switch 8310-853T
- 1 EA Threshold - ADA

Note: Card Reader,

Operation: Door is normally closed and locked. Presenting valid credential will unlock the door and enable the exterior wall actuator. Activating the exterior wall actuator when enabled will cause the automatic operator to open (interior is always enabled). Free egress at all times.

Hardware Set No. 8
Double aluminum entrance, interior

- Door: 6146
- | | | |
|---|----|--|
| 2 | EA | Continuous Hinge |
| 1 | EA | Push/Pull set by door manufacturer - Passage |
| 1 | EA | Astragal by door manufacturer |
| 2 | EA | Closer with stop arm |
| 1 | EA | Automatic operator |
| 2 | EA | Push plate-wal Square 8310-853T |
| 1 | EA | Threshold - ADA |

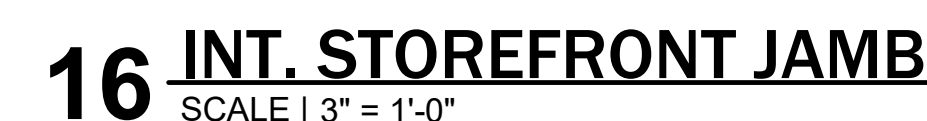
Hardware Set No.9

- Double door, storage function, acoustical seals.
- Doors: 612
- 6 EA BB-Butt Hinges
- 1 EA Mortise Lockset – storage Function
- 1 EA Cylinder
- 1 EA SFIC Core (verify with existing)
- 1 EA Astragal 550-NGP
- 1 EA Astragal sound seal
- 2 EA Acoustical door bottom.
- 1 Set Acoustical seals
- 2 EA Manual flush bolts 3913/3915 TRM top and bottom
- 1 EA Dust proof strike 3910 TRM
- 2 EA Overhead stop with hold-open OH902H ROC
- 4 EA Kickplate

Hardware Set No.10

Double door, double egress, interior
Door: 600

- 2 EA Continuous geared Hinge
- 2 EA Panic device with exposed vertical rods, LBR
- 2 EA Top Strike
- 2 EA Closer
- 1 Set Door pulls by manufacturer
- 1 EA Astragal by door manufacturer
- 1 Set Door smoke seals
- 2 EA Electric magnetic hold-open, wall mounted.
- 4 EA Kickplate



CONSULTANTS

PROJECT NO: PROJECT #263306.00
CHECKED BY: Checker
DRAWN BY: Author
DATE: 09.15.2026

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FURNITURE & EQUIPMENT PLAN

A901

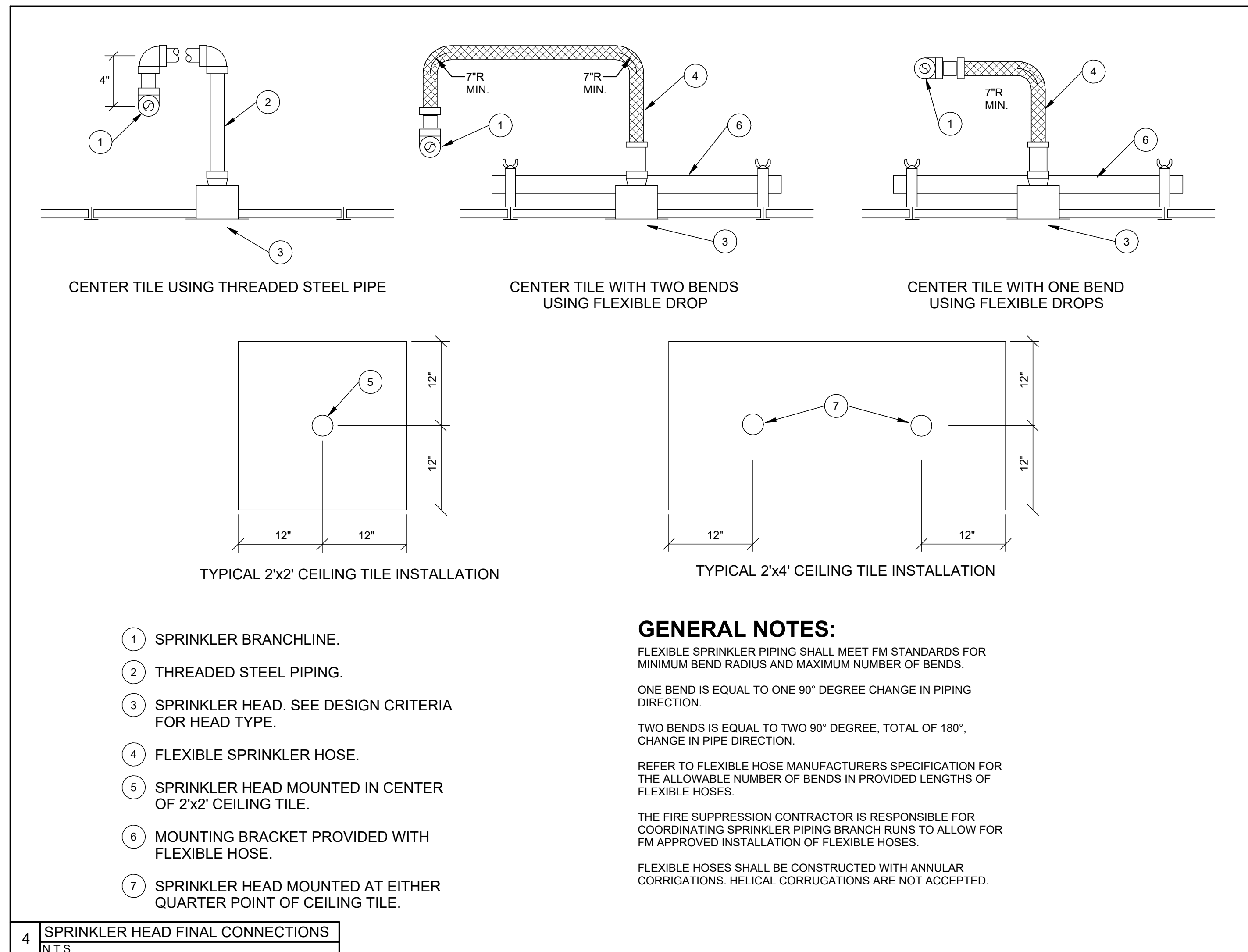
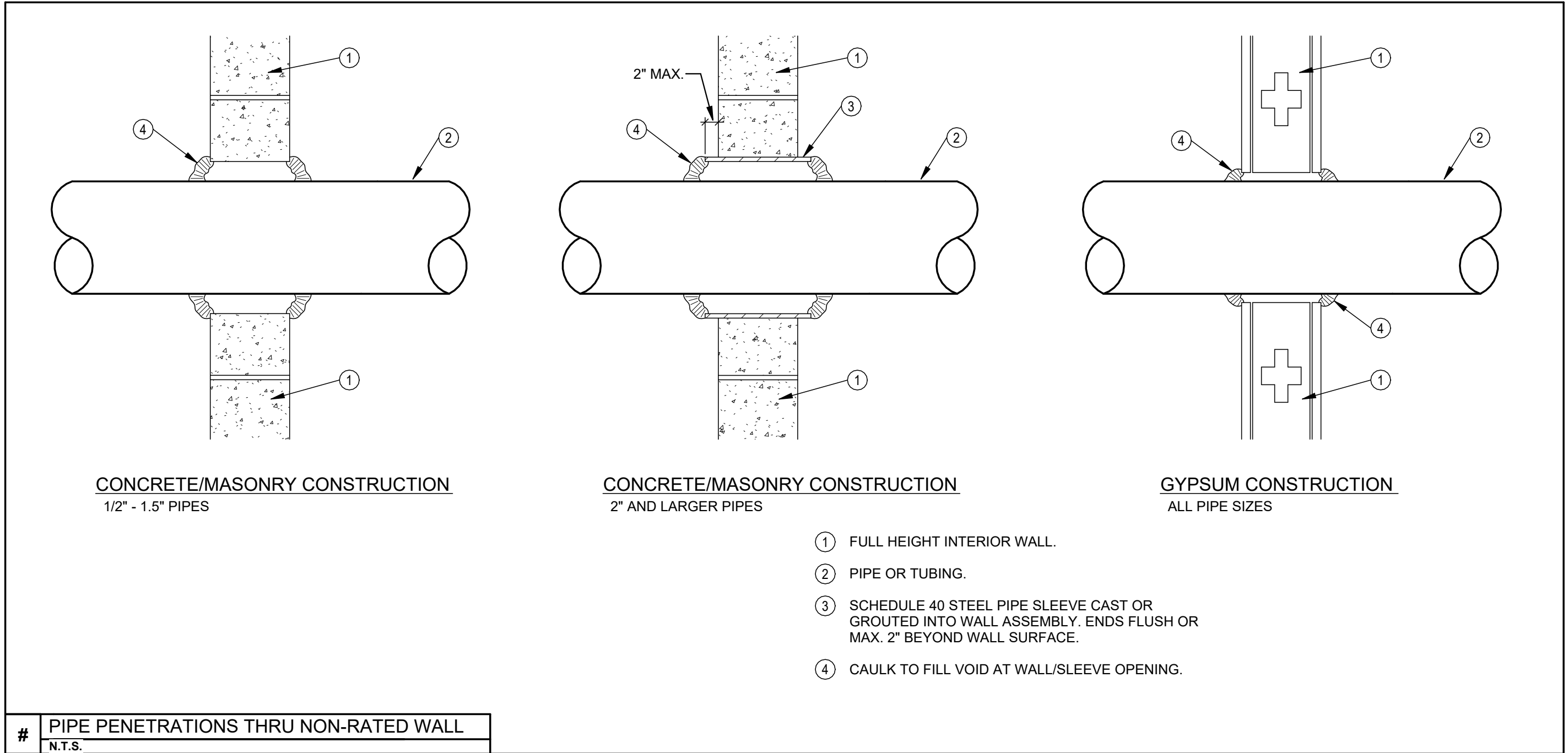
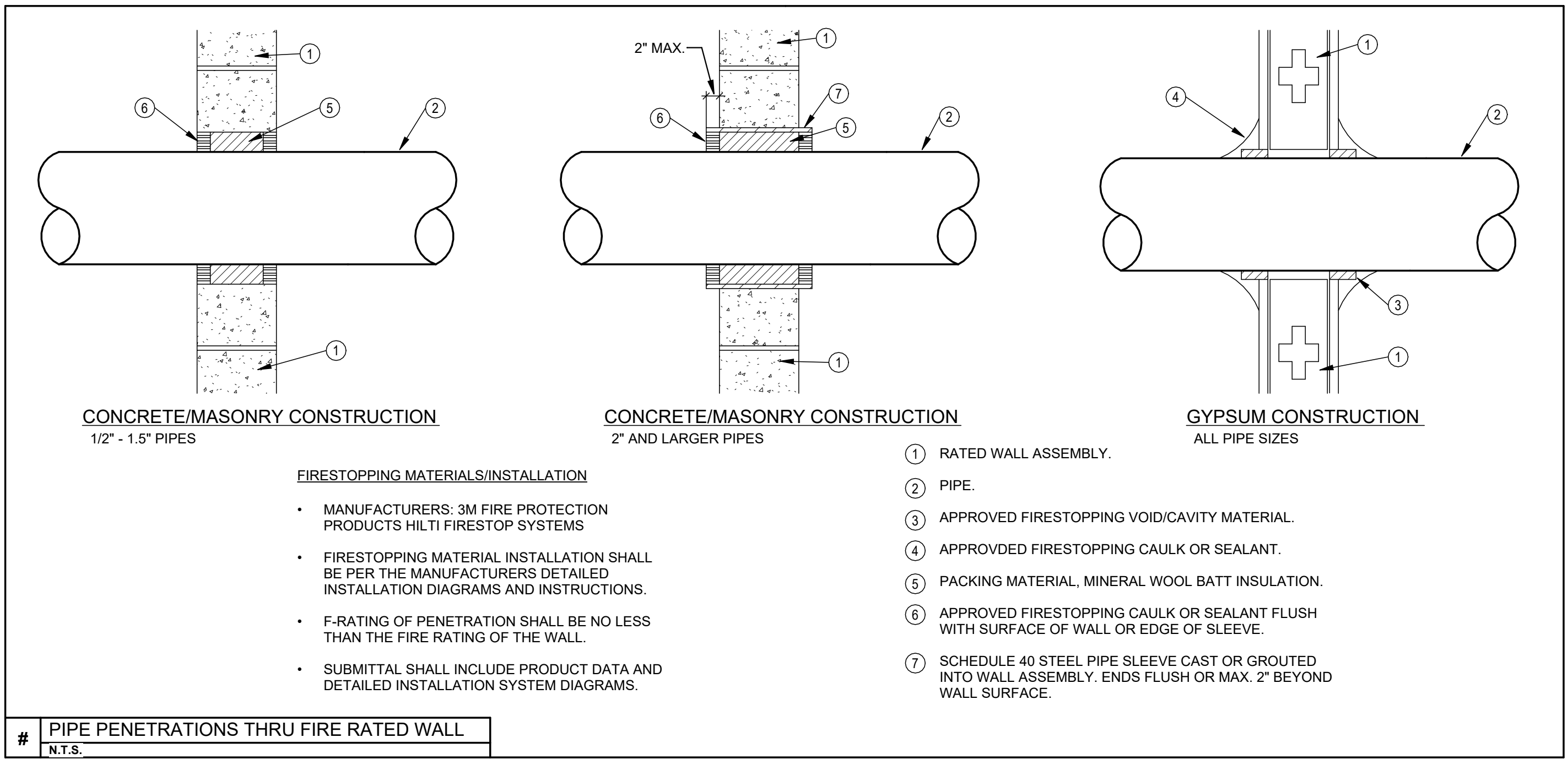
WCCC EXISTING EQUIPMENT			
Item Number	Description	Size in Real Life	Voltage
DA-01	Tech Lab Cart, 4'x6'	36" H x 72" L x 24" W	
DA-02	Dental Chair	60" H x 72" L x 32" W	120 V
DA-03	Computer Treatment Station, w/Dental equipment	73" H x 24" L x 44" W	120 V
DA-04	Half of Middle Dental Station, w/ sink, space for x-ray machine	80" H x 114" L x 24" W	
DA-04(2)	Other Half of Dental Station that x-ray machine attaches to	80" H x 114" L x 24" W	120 V
DA-05	Dental Work Cabinet (Note: DA-05 & DA-07 sit on, used for chemicals & has a sink)	84" H x 140" L x 24" W	0 V
DA-06	Midmark® Steam Sterilizer	15" H x 24" L x 18" W	120 V
DA-07	Autoclave 2, smaller and thinner than DA-06	7" H x 24" L x 16" W	
DA-08	Interoral X-ray machine, is currently attached to DA-04 but could be moved, do not put on rolling stand	84" H x 36" L x 30" W	120 V
DA-09	Dental Station w/sink	36" H x 19" L x 6" W	
DA-10	Standing Dental X-ray machine, current one is broken	36" H x 16" L x 24" W	
DA-11	Dental model trimmer with a 1/4 or 1/3 HP motor and a 10" abrasive wheel	16" H x 16" L x 16" W	
ES-01	Multifunctional Cable Machine. Should be placed on workout mats	84" H x 60" L x 72" W	
ES-02	Treadmill	32" H x 78" L x 24" W	
ES-03	Taping table only, should be placed with one taping storage and one other taping table. Needs 15 of these configurations	37" H x 37" L x 26" W	
ES-04	Taping table only, should be placed with one taping storage and one other Taping table. Needs 15 of these configurations	37" H x 37" L x 26" W	
ES-04	Taping table only, should be placed with one taping storage and one other Taping table. Needs 15 of these configurations	37" H x 37" L x 26" W	
ES-04	Taping table only, should be placed with one taping storage and one other Taping table. Needs 15 of these configurations	37" H x 37" L x 26" W	
ES-04	Taping table only, should be placed with one taping storage and one other Taping table. Needs 15 of these configurations	37" H x 37" L x 26" W	
ES-05	Larger Taping Storage, is paired with ES-04	32" H x 37" L x 26" W	
ES-06	Smaller Taping Storage, paired with ES-04	27" H x 35" L x 23" W	
ES-06	Smaller Taping Storage, paired with ES-04	27" H x 35" L x 23" W	
ES-07	Star Stopper for PT	53" H x 60" L x 41" W	
ES-08	ECO-POWER, Energy-generating rower	20" H x 75" L x 24" W	120 V
ES-09	Electrical, no need for power	69" H x 72" L x 24" W	120 V
ES-10	Exercise Bike, no energy power	52" H x 52" L x 24" W	120 V
ES-11	ECO-POWER, Energy-generating rower	48" H x 80" L x 24" W	120 V
ES-12	Scott BenchFree Weight Arm Machine	36" H x 60" L x 48" W	
ES-13	Recurrent Electric Sink, needs power	45" H x 64" L x 30" W	120 V
ES-14	Bench Press w/Leg Press, does not have squat rack in real life	48" H x 72" L x 24" W	
ES-15	Benchpress w/ squat rack	84" H x 72" L x 72" W	
ES-16	Bowflex Pectoral Machine	90" H x 96" L x 60" W	
ES-17	Proform Treadmill	65" H x 84" L x 36" W	120 V
ES-18	Nordic Treadmill	69" H x 72" L x 36" W	120 V
ES-19	Star Master, Climber Mach.	66" H x 60" L x 36" W	
N-01	Rolling Stethes, 3 for Nursing lab and one for EX. Sci Lab	72" H x 28" L x 72" W	
ST-01	Mobile Stainless Steel Table	34" H x 60" L x 24" W	
ST-02	Small Stainless Steel Table	34" H x 30" L x 16" W	
ST-03	Supply Table	42" H x 84" L x 48" W	
ST-04	Midmark® Steam Sterilizers	24" H x 16" L x 20" W	120 V
ST-05	Case Cart, used to cart around sterilized medical equipment.	48" H x 22" L x 17" W	
ST-06	Decontamination Sink, original has two sinks with on side bed, they want one that has three sinks and two side beds.	50" H x 28" L x 57" W	

Grand total: 61



GREENTREE HEALTH SCIENCE ACADEMY
5757 INNOVATION DRIVE, MIDDLETOWN OHIO





DESIGN CRITERIA

- DESIGN AND INSTALLATION OF SERVICE MAIN AND WET PIPE SPRINKLER SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF THE 2024 OHIO BUILDING CODE, N.F.P.A. 13 (2022 EDITION), AND ALL AUTHORITIES HAVING JURISDICTION (AHJ).
- WORKING PLANS AND HYDRAULIC CALCULATIONS SHALL BE PREPARED, SUBMITTED, AND APPROVED PRIOR TO INSTALLATION, BY THE FIRE SUPPRESSION CONTRACTOR. PLANS SHALL INCLUDE ALL ITEMS LISTED IN N.F.P.A. 13.
- WATER SUPPLY DATA: THE FIRE SUPPRESSION CONTRACTOR IS RESPONSIBLE FOR CONDUCTING A FLOW TEST TO OBTAIN CURRENT WATER SUPPLY DATA FROM THE NEW WATER DISTRIBUTION SYSTEM FOR USE IN THE HYDRAULIC CALCULATIONS.
- HYDRAULIC DESIGN CRITERIA FOR LIGHT HAZARD AREAS: (ALL AREAS EXCEPT WHERE NOTED OTHERWISE)

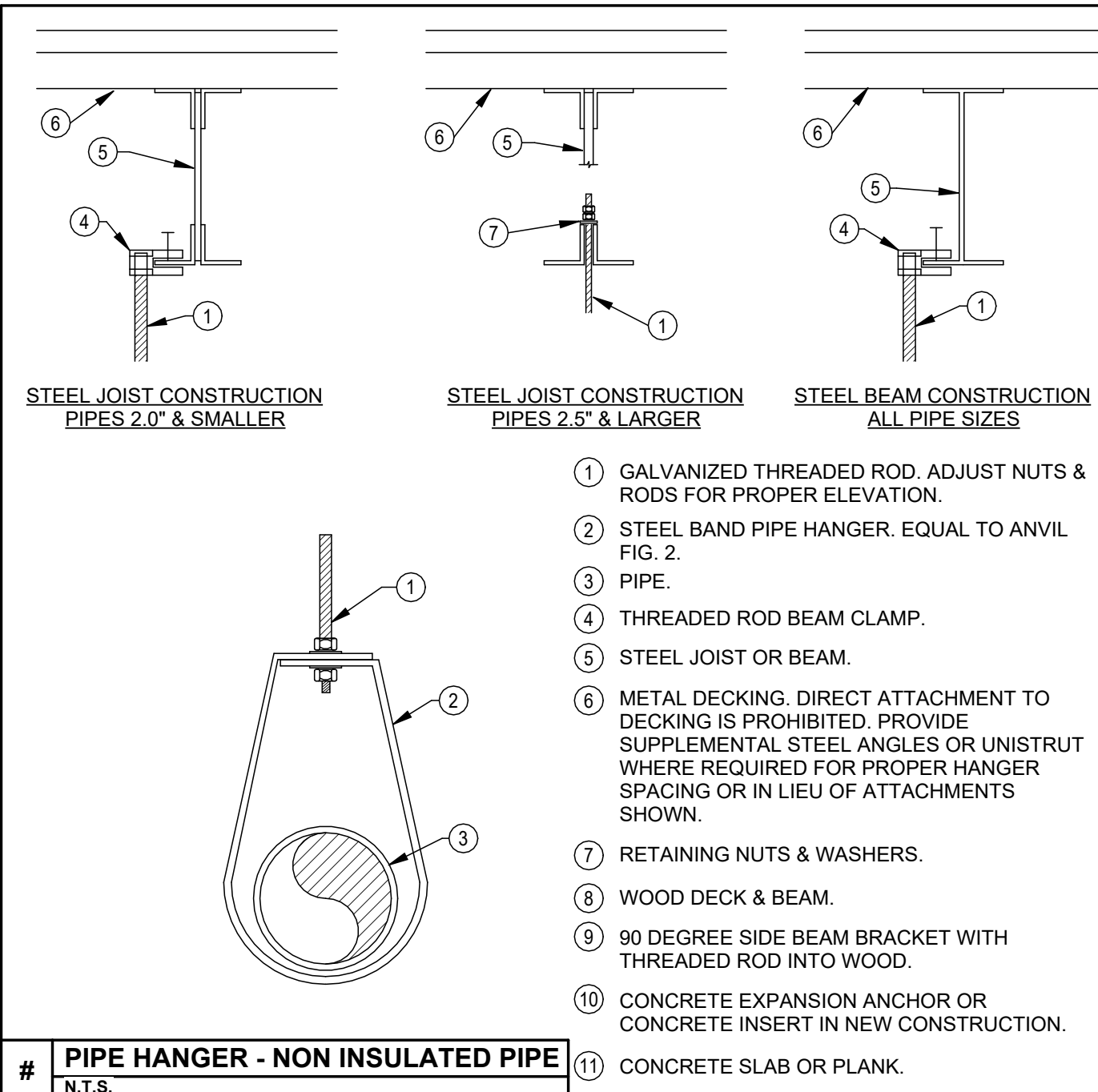
DENSITY:	0.10 GPM/SQ.FT.
DESIGN AREA:	MOST DEMANDING 1500 SQ.FT. (REDUCTION WITH QUICK RESPONSE HEADS PERMITTED)
MAX. SPRINKLER COVERAGE:	130 SQ. FT./HEAD
HOSE DEMAND:	100 GPM
DURATION:	30 MINUTES
- HYDRAULIC DESIGN CRITERIA FOR ORDINARY HAZARD (GROUP 1) AREAS: (STORAGE ROOMS, MECHANICAL ROOMS, JANITOR'S ROOMS, KITCHEN, COMMUNICATION ROOMS)

DENSITY:	0.15 GPM/SQ.FT.
DESIGN AREA:	MOST DEMANDING 1500 SQ.FT.
MAX. SPRINKLER COVERAGE:	130 SQ. FT./HEAD
HOSE DEMAND:	250 GPM
DURATION:	60 MINUTES
- ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE.
- SPRINKLER HEADS IN AREAS WITH FINISHED CEILINGS SHALL BE CONCEALED PENDENT TYPE WITH FLAT PLATE AND WHITE FINISH.
- SPRINKLER HEADS IN AREAS WITH NO CEILINGS SHALL BE BRASS.

FIRE SUPPRESSION PIPING

- GENERAL NOTES:**
- PIPING SHALL CONFORM TO OBC REQUIREMENTS.
- PIPING INSTALLATION AND TESTING SHALL COMPLY WITH NFPA 13 (2016 EDITION).
- PROVIDE PIPING SLEEVES AT WALLS IN NEW CONSTRUCTION.
- PIPING SHALL BE PITCHED FOR DRAINAGE.
- PROVIDE DIELECTRIC FITTINGS FOR TRANSITIONS BETWEEN FERROUS AND NON-FERROUS PIPING SYSTEMS.
- CLOSE OPEN ENDS OF PIPING DURING CONSTRUCTION.
- PIPE AND TUBING SHALL BE CUT AND FABRICATED TO FIELD MEASUREMENTS AND RUN PARALLEL TO NORMAL BUILDING LINES. PIPE INTERIOR SHALL BE CLEANED OF FOREIGN MATTER AND BURRS BEFORE ERECTION OF PIPE.
- PIPING SHALL NOT BE RUN ABOVE ELECTRICAL SWITCHGEAR OR PANELBOARDS, NOR ABOVE THE ACCESS SPACE OF SUCH EQUIPMENT - NEC ARTICLE 384.
- FLEXIBLE HOSES SHALL BE CONSTRUCTED WITH ANNULAR CORRIGATIONS. HELICAL CORRUGATIONS ARE NOT ACCEPTED.

PIPING SYSTEM		TYPE	
WET PIPE SPRINKLER 2" AND LARGER		S1, S2, S3	
WET PIPE SPRINKLER 1 1/2" AND SMALLER		S2	
FINAL CONNECTION TO SPRINKLER HEAD		S2, F1	
TYPE	DESCRIPTION	TYPE	DESCRIPTION
S1	ROLL GROOVED BLACK STEEL SCHEDULE 10 ASTM A135 OR ASTM A795 MALLEABLE/DUCTILE FITTINGS NITRILE EPDM GASKETS ASTM A47/A47M OR A536	F1	FLEXIBLE SPRINKLER HOSE FITTING 36" LENGTH MAXIMUM FULLY STAINLESS STEEL FLEXIBLE HOSE WITH CEILING BRACKET UL 2443 AND FM 1637 175 PSI RATING FOLLOW FM STANDARDS FOR BEND RADIUS AND NUMBER OF BENDS
S2	THREADED BLACK STEEL SCHEDULE 40, ASTM A53 OR ASTM A795 150 LB. MALLEABLE OR C.I. SCREWED FITTINGS		
S3	ROLL/CUT GROOVED BLACK STEEL SCHEDULE 40, ASTM A53 OR ASTM A795 MALLEABLE/DUCTILE FITTINGS NITRILE EPDM GASKETS ASTM A47/A47M OR A536		



GENERAL NOTES

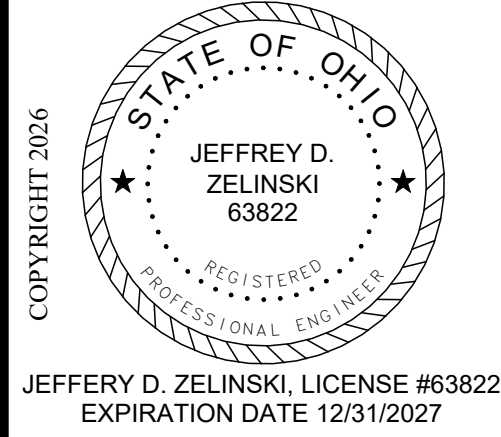
- PROVIDE A COMPLETE SPRINKLER SYSTEM THROUGHOUT THE BUILDING ADDITION. BUILDING SHALL BE CONSIDERED FULLY SUPPRESSED AT COMPLETION OF PROJECT.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2024 VERSION OF THE OHIO BUILDING CODE, INCLUDING REFERENCED CODES AND STANDARDS.
- ALL FIRE SUPPRESSION EQUIPMENT SHALL BE UL LISTED FOR FIRE SUPPRESSION SERVICE.
- PROVIDE A FIRE WATCH IN ACCORDANCE WITH "AHJ" REQUIREMENTS.
- ALL FIRE SUPPRESSION SYSTEMS (SERVICE MAIN, FIRE DEPT. CONNECTION, SPRINKLER SYSTEM, INSPECTOR TEST, DRAIN, ETC.) SHALL BE HYDROSTATICALLY TESTED AT 200 PSI FOR 2 HOURS WITH NO VISIBLE LEAKAGE. ALL CONCEALED PIPING SHALL BE AIR TESTED, WITH NO LEAKAGE, PRIOR TO FILLING SYSTEM WITH WATER. THE FIRE PROTECTION CONTRACTOR SHALL NOTIFY ALL AUTHORITIES HAVING JURISDICTION 24 HOURS PRIOR TO THE TEST TO ALLOW AHJ TO WITNESS ALL TESTS.
- ALL VALVES CONTROLLING WATER SUPPLIES SHALL BE PROVIDED WITH TAMPER SWITCHES (SEE NOTE E).
- THE FIRE SPRINKLER SYSTEM SHALL BE SUPERVISED BY AN APPROVED CENTRAL STATION FIRE ALARM SYSTEM IN ACCORDANCE WITH O.B.C. AND N.F.P.A. 72.
- THE FIRE SUPPRESSION CONTRACTOR SHALL COORDINATE WIRING OF ELECTRICAL FIRE SUPPRESSION DEVICES AND EQUIPMENT WITH THE ELECTRICAL AND/OR FIRE ALARM CONTRACTOR. ALL FIRE ALARM WIRING BY ELECTRICAL CONTRACTOR. ALL DEVICES SHALL BE FURNISHED AND INSTALLED BY THE FIRE SUPPRESSION CONTRACTOR.
- THE FIRE SUPPRESSION CONTRACTOR SHALL COORDINATE THE LAYOUT OF THE FIRE SUPPRESSION SYSTEM WITH ALL TRADES PRIOR TO INSTALLATION.
- THE FIRE SUPPRESSION CONTRACTOR SHALL CENTER (WITHIN 1") ALL CONCEALED SPRINKLER HEADS INSTALLED IN ACoustICAL LAY- IN CEILING TILES. ALL PENDENT SPRINKLER HEADS IN CEILINGS SHALL BE SYMMETRICAL WITH LIGHTING AND AIR DEVICES.
- VERIFY THE LOCATION AND TYPE OF FIRE DEPARTMENT CONNECTION WITH THE FIRE DEPARTMENT.
- LOCAL SPRINKLER ALARM AND REMOTE ALARM AND SUPERVISION SHALL BE THRU THE FIRE ALARM SYSTEM PROVIDED BY THE E.C.
- FINAL APPROVAL IS SUBJECT TO ACCEPTANCE AND TESTING BY ALL AHJ.

GENERAL REQUIREMENTS

- PROVIDE COMPLETE AND FUNCTIONAL FIRE SUPPRESSION SYSTEMS PER FIRE PLANS INCLUDING FURNISHING, INSTALLING, TESTING AND WARRANTY OF ALL WORK.
- WORK SHALL BE IN ACCORDANCE WITH THE 2024 OHIO BUILDING AND MECHANICAL CODES INCLUDING REFERENCED CODES AND STANDARDS, ALL FEDERAL AND LOCAL CODES AND ALL APPLICABLE LAWS, ORDINANCES AND REGULATIONS.
- BIDDERS ON FIRE SUPPRESSION WORK SHALL BE REGULARLY ENGAGED IN SPRINKLER SYSTEM WORK AND BE CERTIFIED BY THE STATE.
- WORK SHALL BE PERFORMED USING BEST QUALITY INSTALLATION PRACTICE BY A QUALIFIED TRADE CONTRACTOR AND THEIR QUALIFIED SUBCONTRACTORS. ALL CONTRACTORS SHALL BE LICENSED AND BE BONDED FOR THE WORK.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA AND OWNER SAFETY STANDARDS AND PRACTICES. ALL ON SITE PERSONNEL SHALL BE SAFETY TRAINED AND OWNER CERTIFIED.
- OBTAIN REQUIRED PERMITS RELATED TO THE WORK AND PAY ALL PERMIT AND INSPECTION FEES.
- THE AUTHORITY HAVING JURISDICTION SHALL INSPECT AND APPROVE ALL WORK. PROVIDE A FINAL CERTIFICATE OF APPROVAL FROM THE AUTHORITY HAVING JURISDICTION AND PRESENT TO THE OWNER BEFORE REQUESTING FINAL PAYMENT AND RELEASE OF RETAINAGE.
- PERFORM A FLOW TEST TO SERVE AS THE BASIS FOR HYDRAULIC CALCULATIONS. DEVELOP HYDRAULIC CALCULATIONS AND INSTALLATION DRAWINGS NEEDED TO OBTAIN APPROVAL FROM AUTHORITY HAVING JURISDICTION. CALCULATIONS SHALL INCLUDE A 10% SAFETY FACTOR.
- PROTECT ALL FURNISHED MATERIAL AND EQUIPMENT FROM THEFT AND DETERIORATION OR CONTAMINATION DUE TO WEATHER OR CONSTRUCTION ACTIVITIES.
- PROTECT OWNER'S PROPERTY AND PROPERTY OF OTHER CONTRACTORS.
- REMOVE ALL CONSTRUCTION DEBRIS FROM SITE. RECYCLE DEBRIS WHERE POSSIBLE. DISPOSE OF ALL HAZARDOUS MATERIAL IN ACCORDANCE WITH ENVIRONMENTAL LAWS.
- PROVIDE ALL CUTTING AND PATCHING REQUIRED TO INSTALL MATERIAL AND EQUIPMENT.
- PROVIDE APPROPRIATE FIRESTOPPING SYSTEM FOR ANNULAR SPACE OPENINGS AROUND PIPE PENETRATIONS THROUGH FIRE RESISTANCE RATED CONSTRUCTION. ANNULAR SPACE OPENINGS AT PIPE PENETRATIONS IN NON RATED CONSTRUCTION TO BE CLOSED AIR AND WATER TIGHT.
- MATERIALS AND EQUIPMENT SHALL BE ONE OF THE BRAND OR MANUFACTURERS LISTED OR AN APPROVED EQUAL.
- LOCAL SPRINKLER ALARM AND REMOTE ALARM AND SUPERVISION SHALL BE THRU THE FIRE ALARM SYSTEM PROVIDED BY THE E.C.
- ELECTRONIC SHOP DRAWINGS SHALL BE PROVIDED IN .PDF FORMAT FOR THE ENGINEER'S APPROVAL FOR ALL MATERIALS AND EQUIPMENT. SHOP DRAWINGS SHALL BE SPECIFICALLY EDITED TO ELIMINATE SUPERFLUOUS INFORMATION AND SHALL CLEARLY SHOW SPECIFICS FOR THE MATERIAL AND EQUIPMENT PROVIDED.
- COORDINATE INSTALLATION OF ACTUAL EQUIPMENT AND SYSTEMS PROVIDED WITH OTHER TRADES AND NEW OR EXISTING CONDITIONS.
- INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
- INSTALL ALL MATERIAL AND EQUIPMENT TO PROVIDE REQUIRED CLEARANCES TO MEET CODE REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS AND MAINTENANCE SERVICE.
- ALL WORK AREAS SHALL BE CLEANED TO MATCH ORIGINAL CONDITION.
- MAINTAIN RECORD DRAWINGS AND PROVIDE TO THE OWNER OR HIS AGENT.
- PROVIDE TWO (2) BOUND, PAPER COPIES OF ALL OPERATING AND MAINTENANCE MANUALS. PROVIDE AN ELECTRONIC COPY OF THE OPERATING AND MAINTENANCE MANUAL.
- PROVIDE WARRANTY FOR ALL WORKMANSHIP, EQUIPMENT AND MATERIAL. WARRANTY SHALL BE 1 YEAR FOR PARTS AND LABOR. PROVIDE EXTENDED WARRANTY PERIOD FOR PARTS AND/OR LABOR AS IDENTIFIED OR AS STANDARD FOR CERTAIN ITEMS OF EQUIPMENT.

FIRE SUPPRESSION INDEX OF DRAWINGS

SHEET	DRAWING TITLE
F0.1	LEGENDS AND SCHEDULES
F1.1	NEW WORK PLAN
F1.2	EXISTING BUILDING PLAN - WEST
F1.3	EXISTING BUILDING PLAN - EAST



REVISIONS :

Revision	Date	Description
1	09.15.2025	Bid / Permit Set

PRINTINGS :

Revision	Date	Description
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PROJECT NO: **#263306.00**
CHECKED BY: **J.D.Z.**
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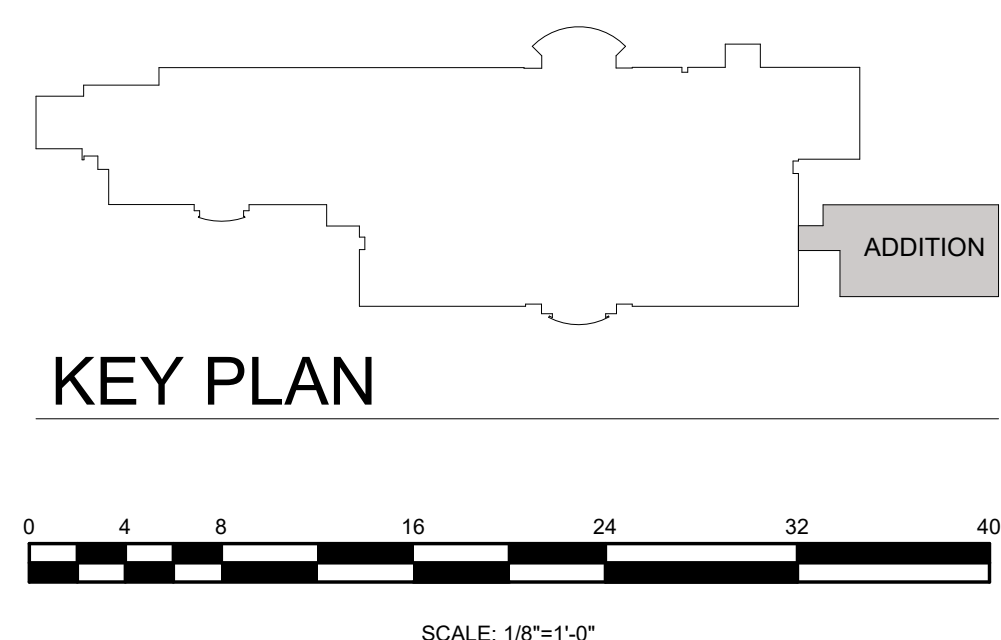
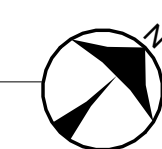


LEGENDS AND SCHEDULES

F0.1



FIRST FLOOR FIRE SUPPRESSION
SCALE: 1/8" = 1'-0"



HAZARD CLASSIFICATIONS	
NO HATCH	LIGHT HAZARD DENSITY - 0.10GPM/SF MAX AREA PER HEAD - 225 SF HOSE ALLOWANCE - 100 GPM
	ORDINARY HAZARD GROUP 1 DENSITY - 0.15GPM/SF MAX AREA PER HEAD - 130 SF HOSE ALLOWANCE - 250 GPM
	ORDINARY HAZARD GROUP 2 DENSITY - 0.20GPM/SF MAX AREA PER HEAD - 130 SF HOSE ALLOWANCE - 250 GPM

9/14/2025 12:45:17 PM

JEFFREY D. ZELINSKI
63822

JEFFREY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2027

PRINTINGS :

Bid / Permit Set

09.15.2025

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Number

Description

Date

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D.E.G.

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Levin Porter Associates Inc. dba Levin Porter Architects

NEW WORK PLAN

F1.1

VALVE SCHEDULE

GENERAL NOTES FOR VALVES:						
PIPING SYSTEM	VALVE TYPE					
	BUTTERFLY	BALL	CHECK	GATE	BALANCING	LUB. PLUG
DOMESTIC WATER (CW, HW, & HWR) 2" AND SMALLER		B11, B14	C11, C13		E12	
DOMESTIC WATER (CW, HW, & HWR) 2.5" AND LARGER		B14	C12, C14 C16			
INTERIOR NATURAL GAS 3" AND SMALLER		B17				
INTERIOR NATURAL GAS 4" AND LARGER						P11
EXTERIOR NATURAL GAS 2" AND SMALLER		B18				P12
EXTERIOR NATURAL GAS 3" AND LARGER						P11, P12

TYPE	DESCRIPTION	TYPE	DESCRIPTION	TYPE	DESCRIPTION
B11	NIBCO T-585-80-LF, 150 W.S.P., 2 PIECE BRONZE BODY, SCREWED ENDS, BRONZE BALL AND STEM, TFE SEAT AND SEAL, HANDLE, NSF/ASME B1	C11	NIBCO T-413-Y-LF, 125 W.S.P., BRONZE BODY, SCREWED ENDS, RENEWABLE BRONZE SWING DISC WITH TFE SEAT RING, NSF/ASME B1	C16	WATTS SERIES LFVCV, 125 W.S.P., BRONZE BODY, SCREWED ENDS, BRONZE SWING DISC, NSF/ASME B1
B14	APOLLO 70LF-240, 150 WSP, 2 PIECE LEAD-FREE BRONZE BODY, 316 STAINLESS STEEL BALL AND STEM, FLANGED ENDS, RENEWABLE STAINLESS STEEL SWING DISC AND SEAT RING, NSF/ASME B1	C12	NIBCO F-938-33, 285 PSI C.W.P., DUCTILE IRON BODY, STAINLESS STEEL TRIM, FLANGED ENDS, RENEWABLE STAINLESS STEEL SWING DISC AND SEAT RING, NSF/ANSI B1-8	E12	ADJ. THERMOSTATIC, BALANCE, CALEFFI THEROSETTER LOW-LEAD BRASS BODY WITH ISOLATION VALVES AND TEMP. GAUGE, EPDM SEATS, CALIBRATED NAMEPLATE, HANDLE WITH MEMORY STOP, NSF/ASME B1
B17	NIBCO T-FF-600A, 600 PSI NON-SHOCK COLD., 2 PIECE, BRASS BODY, SCREWED ENDS, FULL PORT, BRASS BALL, TFE SEAT, HANDLE, UL LISTED FOR GAS, ASME B16.44	C13	NIBCO T-480-Y-LF, 125 W.S.P., IN-LINE SPRING ACTUATED CENTER GUIDED SILENT CHECK, BRONZE BODY, SCREWED ENDS, TFE SEAT AND SEAT RING, NSF/ASME B1	P11	NORDSTROM NO. 143, 200 PSI, IRON BODY, ST. ST. STEM, FLANGED ENDS, WRENCH
B18	NIBCO T-585(OH 580)-70-UL, 600 PSI NON-SHOCK COLD., 2 PIECE, BRONZE BODY, SCREWED ENDS, FULL PORT, BRASS BALL, TFE SEAT, HANDLE, UL LISTED FOR GAS, ASME B16.33	C14	NIBCO F-910-LF, 125 W.S.P., IN-LINE SPRING ACTUATED CENTER GUIDED SILENT CHECK, GLOBE STYLE, IRON BODY FOR INSTALLATION BETWEEN FLANGES, BRONZE SEAT AND DISC, NSF/ASME B1	P12	NORDSTROM NO. 115, 200 PSI, IRON BODY, ST. ST. STEM, FLANGED ENDS, WRENCH ASME B16.33

PIPE INSULATION SCHEDULE - PLUMBING

SYSTEM & SIZE	INSULATION THICKNESS	TYPE	LOCATION
DOMESTIC COLD WATER 1.5" & SMALLER	0.5"	F1	INTERIOR
DOMESTIC COLD WATER 2" & LARGER	1"	F1	INTERIOR
DOMESTIC HOT WATER, TEMPERED WATER, & HOT WATER RETURN 1.25" AND SMALLER	1"	F1	INTERIOR
DOMESTIC HOT WATER, TEMPERED WATER, & HOT WATER RETURN 1.25" AND LARGER	1"	E1	INTERIOR BELOW GRADE
DOMESTIC HOT WATER, TEMPERED WATER, & HOT WATER RETURN 1.5" AND LARGER	1.5"	F1	INTERIOR
INTERIOR HORIZONTAL STORM DRAINAGE	1"	F1	INTERIOR
CONDENSATE DRAINAGE	1"	F1, E1	INTERIOR

TYPE	BASIS OF DESIGN	APPROVED EQUALS	DESCRIPTION
F1	OWENS-CORNING SSL1-ASJ	KNAUF-1000" PIPE, JOHNS MANVILLE MICRO-LOK HP	* PREFORMED, TUBULAR, INORGANIC GLASS FIBER WITH RESIN BONDING. * K=0.24 @ 100 DEG. F. * 3.5 - 5.5 PPF * PREFORMED TUBULAR. * WHITE FSRK JACKET. * LONGITUDINAL LAP WITH SELF-SEALING ADHESIVE. * ELBOWS, TEES, VALVES, CAPS, ETC., WHITE ONE PIECE, PREMOLDED 25/50 0.20" PVC FITTING COVERS WITH HIGH DENSITY FIBERGLASS INSULATION INSERTS SAME THICKNESS, K=0.26 EQUAL TO ZESTON OR PROTO.
E1	AEROFLEX AEROCEL EPDM	RUBATEX	* PREFORMED, FLEXIBLE CLOSED CELL EPDM, TUBULAR INSULATION, OR SHEET INSULATION. * K=0.25 @ 75 DEG. F. * CLEAN PIPE SURFACE WITH DENATURER ALCOHOL PRIOR TO INSULATING.

PLUMBING FIXTURE SCHEDULE

ITEM	FIXTURE DESCRIPTION	FIXTURE	CONNECTIONS			MTG. HGT.	TRIM REQUIREMENTS							NOTES
			H.W.	C.W.	SAN.		SUPPLY	STOPS	WASTE	TRAP	CARRIERS	ACCESSORIES		
W1	WATER CLOSET/ VIT. CHINA/ WALL HUNG/ ELONGATED/ MANUAL FLUSH VALVE/ 1.6 GPF/ 1,000 MG MAP SCORE/ ACCESSIBLE	AMERICAN STANDARD # 2257.101	--	1"	4"	16.5" TO RIM	SLOAN # REGAL 111-1.6-XL-CP	UNIT		UNIT	INTEGRAL	SEAT BEMIS # 1955SSCC		
L1	LAVATORY/ VIT. CHINA/ WALL HUNG/ CONCEALED ARM/ MANUAL DUAL-HANDLED SOLID BRASS FAUCET/ CERAMIC CARTRIDGE 10.5GPM LAMINAR FLOW CONTROLLER/ ST GRID STRAINER/ ASSE 1070 DEVICE/ ACCESSIBLE	AMERICAN STANDARD # 0355.027	1/2"	1/2"	1 1/2"	34" TO RIM	T & S BRASS # B-0890-CR-LF05	T & S BRASS # 1336	ELKAY # LK174	ELKAY # LK500	ZURN # Z1231EZ	ASSE 1070 DEVICE		
S1	SINK/ ST. ST. / UNDERMOUNT/ SINGLE BOWL/ 15" SQ. X 5" DP/ GOOSENECK & WRIST BLADE FAUCET/ ST ST GRID STRAINER	ELKAY # ECTRUAD151550	1/2"	1/2"	1 1/2"	--	T & S BRASS # B-2865-09CRVL22	T & S BRASS # 1336	ELKAY # LK372	ELKAY # LK500	--			
S2	SINK/ ST. ST. / SINGLE BOWL/ SINGLE STEM WRIST BLADE FAUCET WITH VACUUM BREAKER/ ST ST BASKET STRAINER	ELKAY # ECTSRAD252260	1/2"	1/2"	1 1/2"	--	T & S BRASS # BL-5704-08W4-VR	T & S BRASS # 1336	ELKAY # LK35	ELKAY # LK500	--	STREIM # SIDEKICK	2.	
S3	SINK/ ST. ST. / UNDERMOUNT/ SINGLE BOWL/ 23" X 16.75" X 10" DP/ HI-ARC SPOUT & LEVER HANDLE FAUCET W SIDE SPRAY/	ELKAY # ELUH231710	1/2"	1/2"	1 1/2"	--	T & S BRASS # B-2347-06	T & S BRASS # 1336	ELKAY # LK35	ELKAY # LK500	--			
S4	SINK/ SINK AND FAUCET FURNISHED WITH DENTAL CASEWORK/	FURNISHED WITH CASEWORK	1/2"	1/2"	1 1/2"	--	FURNISHED WITH CASEWORK	T & S BRASS # 1336	FURNISHED WITH CASEWORK	ELKAY # LK500	--			
SS1	SCRUB SINK/ ST. ST. / WALL HUNG/ 2 STATION/ KNEE OPERATED/ ABOVE DECK TEMP CONTROL	ELKAY # EWSF26026KWSG	(2) 1/2"	(2) 1/2"	(2) 1 1/2"	36" RIM HEIGHT	UNIT	T & S BRASS # 1336		UNIT	(2) ELKAY # LK500	--		
SS2	SCULLERY SINK/ FREE-STANDING/ 3 COMPARTMENT/ OVER ALL 88" X 25 1316/7" EA BOWL, 16" X 20" X 14" DP/ W 18" DRAIN BOARD ON BOTH ENDS/ WALL MOUNTED FAUCET WITH DOUBLE JOINTED 15" SPOUT AND WRISTBLADE HANDLES/ GRID STRAINER WITH ROTARY LEVEL DRAIN	ELKAY # 14-3C16X20-2-18X	1/2"	1/2"	(3)	--	T & S BRASS # B-0266-CR-SC-WB4	T & S BRASS # 1336	(3) ELKAY # LK24RT	ELKAY # LK76 & # LK500	--	--		
E1	DRINKING FOUNTAIN/ WALL MOUNTED/ B-LEVEL WITH BOTTLE FILLER/ FILTERED/ REFRIGERATED/ ACCESSIBLE	ELKAY # LZSTL6WSLK	--	1/2"	1 1/4"	32 7/8" TO LOW BUBBLER	UNIT	T & S BRASS # 1336		UNIT	ELKAY # LK500	ZURN # Z1225-BL		
M1	MOP SINK/ MOLDED STONE/ FLOOR SET/ 24" SQ. 10" DEEP/ VINYL CAPS/ ST ST WALL PANELS/ ON 2 SIDES/ WALL MOUNTED FAUCET WITH INTEGRAL CHECK STOPS	FIAT # TSB3002	1/2"	1/2"	3"	36" FAUCET	T & S BRASS # B-0665-CR-BSTR	UNIT	UNIT		SAME AS WASTE PIPING	FIAT # E-88-AA # MSG2424		
WB1	WASHER UTILITY WALL BOX/ PLASTIC BOX AND FRAME/ 1/4 TURN BRASS BALL VALVE W WATER HAMMER ARRESTORS/	OATEY # 38540	3/4"	3/4"	2"		UNIT		BALL VALVES ABOVE CEILING	UNIT	SAME AS WASTE PIPING	--	--	

EQUALS

AMERICAN STANDARD CHINA - KOHLER, ZURN, SLOAN
AMERICAN STANDARD FAUCETS - KOHLER, ZURN, CHICAGO
SLOAN FLUSH VALVES - ZURN, DELANEY
ELKAY SINKS - JUST, ADVANCED TABCO
MCGUIRE - WATTS, BRASS CRAFT
MCGUIRE "PROWRAP" - TRUEBRO "LAV GUARD", PLUMBREX "PROEXTREME"
OATEY SUPPLY BOXES - IPS, GUY GRAY, SIOUX CHIEF

NOTES:

- COORDINATE EXACT MOUNT HEIGHT WITH MASONRY COURSING.
- INSTALL SIDEKICK SOLIDS INTERCEPTOR BETWEEN FIXTURE OUTLET AND TRAP.

BUILDING DRAIN SYSTEMS SCHEDULE STORM, SANITARY, & VENT

PIPING SYSTEM		TYPE	
SANITARY PIPING BELOW FLOOR SLAB IN GRADE		P1	
SANITARY & VENT PIPING ABOVE THE FLOOR		C11, C12	
STORM DRAINAGE BELOW THE FLOOR IN SLAB		P1	
STORM DRAINAGE ABOVE FLOOR		C11, C12	
INDIRECT DRAINS/CONDENSATE DRAIN LINES 1" & SMALLER		C1, C5, C8	
TYPE	DESCRIPTION	TYPE	DESCRIPTION
C11	NO-HUB CAST IRON (STD) SERVICE WEIGHT ASTM A888 OR CISPI 301 SHIELDED COUPLINGS ASTM C1277 OR CISPI 310 RUBBER SLEEVE ASTM C564	C1	SOLDERED COPPER TYPE "L" HARD COPPER ASTM B88 WROUGHT COPPER OR CAST BRONZE FITTINGS 95-5 SOLDER
C12	HUB & SPIGOT CAST IRON ASTM A74, SERVICE CLASS DIV1 FITTING RUBBER GASKET ASTM C564	C5	PRESS-FIT COPPER TYPE "L" HARD COPPER ASTM B88 COPPER OR BRONZE FITTINGS ASTM B16.18 OR B16.22 250 DEG. F. EPDM SEALS
P1	PVC SCHEDULE 40 PVC ASTM D2685 AND D2321 DWV FITTINGS, ASTM D3311 GLUED JOINTS	C8	TYPE "K" SOFT COPPER ASTM B88 WROUGHT COPPER OR CAST BRONZE FITTINGS 95-5 SOLDER
NOTE: ABOVE CEILING SPACES USED AS RETURN AIR PLENUMS, SANITARY, STORM, AND VENT PIPING SHALL BE CAST IRON TYPE C1 OR C2.			

BUILDING SUPPLY SYSTEMS SCHEDULE WATER, COMPRESSED AIR, & GAS

PIPING SYSTEM		TYPE
DOMESTIC COLD, HOT AND RECIRCULATING WATER		C1, C5
DOMESTIC COLD WATER BELOW GRADE		C8, PX1
NATURAL GAS ABOVE GROUND AT PRESSURES 5 PSI & LESS		S1, S2, S6
NATURAL GAS ABOVE GROUND AT PRESSURES MORE THAN 5 PSI		S1
MISCELLANEOUS UNDERGROUND NATURAL GAS (OUTSIDE OF BUILDING)		PE1
COMPRESSED AIR 2.5" & SMALLER		C1

TYPE	DESCRIPTION	TYPE	DESCRIPTION
C1	SOLDERED COPPER TYPE "L" HARD COPPER ASTM B88 WROUGHT COPPER OR CAST BRONZE FITTINGS 95-5 SOLDER	S1	WELDED BLACK STEEL SCHEDULE 40, ASTM A53 TYPE E WROUGHT-STEEL WELDING FITTINGS: ASTM A 234/4 234M 150 LB. C.I. FITTINGS
C5	PRESS-FIT COPPER TYPE "L" HARD COPPER ASTM B88 COPPER OR BRONZE FITTINGS ASTM B16.18 OR B16.22 280 DEG. F. EPDM SEALS	S2	THREADED BLACK STEEL SCHEDULE 40, ASTM A53 TYPE F 150 LB. C.I. FITTINGS
C8	TYPE "K" SOFT COPPER ASTM B88 WROUGHT COPPER OR CAST BRONZE FITTINGS 95-5 SOLDER	S4	WELDED GALVANIZED STEEL SCHEDULE 40, ASTM A53 TYPE E OR F CLASS 300 FITTINGS ASME B10.3
PE1	POLYETHYLENE PE 2308, 2406 TYPE II GRADE 3, PE 3406, 3408 TYPE III, ASTM D2513 HEAT FUSION JOINTS	S6	PRESS-FIT BLACK STEEL SCHEDULE 40, ASTM A53 TYPE E CARBON STEEL FITTINGS: ASTM A420 OR ASTM B16.3 ANSI LC-4/CSA 6.32, & ASTM F3226
PX1	PEX TUBING CROSSLINKED POLYETHYLENE TUBING, SDR 9, ASTM F877 METAL INSERT FITTINGS WITH COPPER OR STEEL CRIMP RING		

DRAIN SCHEDULE

DRAIN TYPES

FD - FLOOR DRAIN
FS - FLOOR SINK
CO - CLEAN OUT - FLOOR
WCO - CLEAN OUT - WALL
TD - TRENCH DRAIN

RD - ROOF DRAIN
SRD - SECONDARY ROOF DRAIN
SSO - SECONDARY STORM OUTLET

MATERIAL ABBREVIATIONS

BR - BRASS
SS - STAINLESS STEEL
AL - ALUMINIUM
P - PLASTIC
CI - CAST IRON
NBZ - NICKEL BRONZE

		BODY	OUTLET			TOP/STRAINER										FEATURES							
TAG	MODEL NUMBER	MATERIAL	SIZE	BOTTOM	SIDE	SIZE	DOVE	FLAT	ADJUSTABLE	FUNNEL	MATERIAL	HALF OPEN	SECONDARY STRAINER	ANCHOR FLANGE	FLASHING CLAMP	DBL DRAINAGE	SED BUCKET	TOP SET DECK PLATE	HINGED PREF. COVER	2" DAM	TRAP PRIMER CON.	TRAP SEAL - ASSE 1072	NOTES
FD1	ZURN...	CI	3"	•		7" DIA.		•	•		NBZ			•	•							•	
FD2	SIOUX CHIEF # 8614P26	P	3"	•		11" SQ		•			P	•	•										
CO	ZURN # ZN1400-K	CI	AS NOTED	•					•	•	NBZ			•									
WCO	ZURN # Z1468	BZ PLUG	AS NOTED			2" & 3" - 5" DIA ...			•	•	SS												
LT1	LINT TRAP STREIM # TT-3	P	4"		•	3" SIDE INLET					-												2.
RD	ZURN # ZC100F-DP-EA	CI	AS NOTED	•				•	•	•	CI				•	•		•					
SRD	ZURN # ZC100F-DP-EA-89	CI	AS NOTED	•				•	•	•	CI				•	•		•		•			
SSQ	ZURN # ZF199	AL	AS NOTED		•						AL									•			1.

NOTES:

- COLOR SELECTION BY ARCHITECT.
- UNIT TO BE SET WITH TOP FLUSH WITH FINISHED FLOOR.

GENERAL REQUIREMENTS

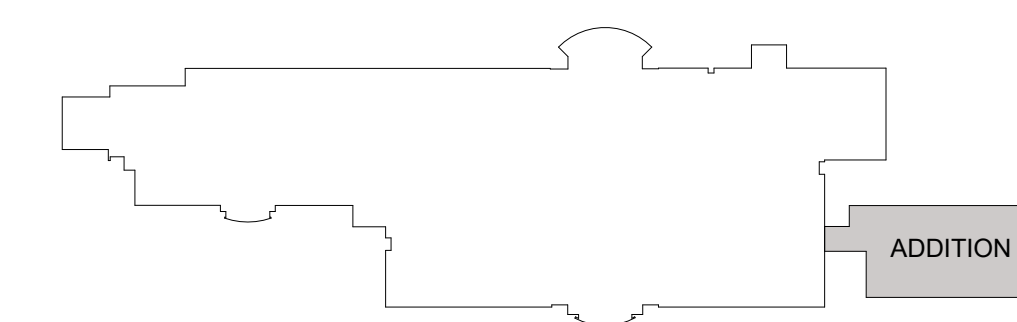
- PROVIDE COMPLETE AND FUNCTIONAL PLUMBING SYSTEMS PER PLANS INCLUDING FURNISHING, INSTALLING, TESTING AND WARRANTY OF ALL WORK.
- WORK SHALL BE IN ACCORDANCE WITH THE 2024 OHIO BUILDING AND OHIO PLUMBING CODES INCLUDING REFERENCED CODES AND STANDARDS, ALL FEDERAL AND LOCAL CODES AND ALL APPLICABLE LAWS, ORDINANCES AND REGULATIONS.
- WORK SHALL BE PERFORMED USING BEST QUALITY INSTALLATION PRACTICE BY A QUALIFIED TRADE CONTRACTOR AND THEIR QUALIFIED SUBCONTRACTORS. ALL CONTRACTORS SHALL BE LICENSED AND BE BONDED FOR THE WORK.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA AND OWNER SAFETY STANDARDS AND PRACTICES. ALL ON SITE PERSONNEL SHALL BE SAFETY TRAINED AND OWNER CERTIFIED.
- REFER TO DIAGRAMS, DETAILS, AND SCHEDULES FOR PIPING AND PIPE SIZES NOT SHOWN ON PLAN OR ON DIAGRAMS.
- OBTAIN REQUIRED PERMITS RELATED TO THE WORK AND PAY ALL PERMIT AND INSPECTION FEES.
- THE AUTHORITY HAVING JURISDICTION SHALL INSPECT AND APPROVE ALL WORK. PROVIDE A FINAL CERTIFICATE OF APPROVAL FROM THE AUTHORITY HAVING JURISDICTION AND PRESENT TO THE OWNER BEFORE REQUESTING FINAL PAYMENT AND RELEASE OF RETAINAGE.
- PROTECT ALL FURNISHED MATERIAL AND EQUIPMENT FROM THEFT AND DETERIORATION OR CONTAMINATION DUE TO WEATHER OR CONSTRUCTION ACTIVITIES.
- PROTECT OWNER'S PROPERTY AND PROPERTY OF OTHER CONTRACTORS.
- REMOVE ALL CONSTRUCTION DEBRIS FROM SITE. RECYCLE DEBRIS WHERE POSSIBLE. DISPOSE OF ALL HAZARDOUS MATERIAL IN ACCORDANCE WITH ENVIRONMENTAL LAWS.
- REMOVE ALL ABANDONED PIPING & SUPPORTS.
- SHUT DOWN OF EXISTING DOMESTIC WATER SYSTEM SHALL BE SCHEDULED WITH THE OWNER.
- PROVIDE ALL CUTTING AND PATCHING REQUIRED TO INSTALL MATERIAL AND EQUIPMENT.
- WHERE REQUIRED CUT EXISTING FLOOR SLAB AND REPLACE TO MATCH EXISTING GRADE, MATERIALS, AND FINISH. EXCAVATE FOR ALL IN GRADE UNDERFLOOR PIPING, BALL AND REPLACE SLAB TO MATCH ADJACENT SURFACE OR GRADE. PUMP WATER FROM EXCAVATIONS AND TRENCHES DURING CONSTRUCTION. EXISTING SERVICES ENCOUNTERED DURING EXCAVATION WORK SHALL BE PROTECTED. ANY SERVICES DAMAGED SHALL BE REPAIRED OR REPLACED. PIPE SHALL BE LAID ON A 6" MINIMUM SAND BED. BACKFILLING OF TRENCHES SHALL BE WITH GRADED PEA GRAVEL OR GRADED COURSE SAND. EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE.
- EXISTING ROOF PATCHING SHALL BE SUBCONTRACTED TO A BONDED ROOFING CONTRACTOR. PROVIDE A FINAL WRITING SYSTEM, MAINTAIN ANY REMAINING ROOF WARRANTY.
- PROVIDE APPROPRIATE FIRESTOPPING SYSTEM FOR ANNULAR SPACE OPENINGS AROUND PIPE PENETRATIONS THROUGH FIRE RESISTANCE RATED CONSTRUCTION. ANNULAR SPACE OPENINGS AT PIPE PENETRATIONS IN NON RATED CONSTRUCTION TO BE CLOSED AIR AND WATER TIGHT.
- MATERIALS AND EQUIPMENT SHALL BE ONE OF THE BRAND OR MANUFACTURERS LISTED OR AN APPROVED EQUAL.
- ELECTRONIC SHOP DRAWINGS SHALL BE PROVIDED IN .PDF FORMAT FOR THE ENGINEER'S APPROVAL FOR ALL MATERIALS AND EQUIPMENT. SHOP DRAWINGS SHALL BE SPECIFICALLY EDITED TO ELIMINATE SUPERFLUOUS INFORMATION AND SHALL CLEARLY SHOW SPECIFICS FOR THE MATERIAL AND EQUIPMENT PROVIDED.
- COORDINATE EACH ROUGH-IN INSTALLATION REQUIREMENTS AND LOCATIONS WITH OTHER TRADES, ACTUAL EQUIPMENT OR CABINERY PROVIDED AND FIELD CONDITIONS BEFORE PERFORMING WORK.
- ALL PIPING IS ABOVE THE CEILING (AT THE CEILING IN EXPOSED STRUCTURE AREAS) UNLESS OTHERWISE INDICATED ON PLAN.
- ALL EQUIPMENT AND MATERIAL REQUIRED FOR COMPLETE AND FUNCTIONAL PLUMBING SYSTEMS ARE INCLUDED IN THE CONTRACT. THE WORK SCOPE IN THE PROJECT MANUAL DEFINES THE FINAL CONTRACTUAL RESPONSIBILITY TO PROVIDE SUPPORTING EQUIPMENT, MATERIALS, FINISHING, UTILITY COST, ETC (EXAMPLES: CONCRETE PADS, PAINTING, TEMPORARY ELECTRICAL/GAS COSTS) FOR PRECEDENCE OVER OTHER SPECIFICATION SECTIONS OR DRAWING REQUIREMENTS.
- PROJECT CONDITIONS REQUIRE COORDINATION TO MAKE SYSTEMS FIT IN THE AVAILABLE SPACE. HVAC CONTRACTOR SHALL PROVIDE AN INITIAL 1/2" ±10" SET OF DRAWINGS AND DISTRIBUTED TO OTHER TRADE CONTRACTORS FOR COORDINATION. ALL CONTRACTORS SHALL COOPERATE TO MODIFY THEIR RESPECTIVE MATERIAL AND EQUIPMENT INSTALLATION AND DEPCT ON A DETAILED, FINISHED COORDINATION SET OF DRAWINGS BEFORE INSTALLATION. ALLOW FOR EXPECTED MINOR OFFSETS OR RELOCATION SYSTEM OR EQUIPMENT WITHOUT REQUEST FOR COMPENSATION ADJUSTMENT.
- PROVIDE FINAL COORDINATION/INSTALLATION DRAWINGS TO THE OWNER IN BOUND PAPER AS WELL AS ELECTRONIC FORMAT FOR RECORD.
- INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
- INSTALL ALL MATERIAL AND EQUIPMENT TO PROVIDE REQUIRED CLEARANCES TO MEET CODE REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS AND MAINTENANCE SERVICE.
- ALL WORK AREAS SHALL BE CLEANED TO MATCH ORIGINAL CONDITION.
- MAINTAIN RECORD DRAWINGS AND PROVIDE TO THE OWNER OR HIS AGENT.
- PROVIDE TWO (2) BOUND, PAPER COPIES OF ALL OPERATING AND MAINTENANCE MANUALS. PROVIDE AN ELECTRONIC COPY OF THE OPERATING AND MAINTENANCE MANUAL.
- PROVIDE WARRANTY FOR ALL WORKMANSHIP, EQUIPMENT AND MATERIAL. WARRANTY SHALL BE 1 YEAR FOR PARTS AND LABOR. PROVIDE EXTENDED WARRANTY PERIOD FOR PARTS AND/OR LABOR AS IDENTIFIED OR AS STANDARD FOR CERTAIN ITEMS OF EQUIPMENT.
- PROVIDE TRAINING AND MAINTENANCE INSTRUCTION FOR SYSTEMS AND EQUIPMENT TO THE OWNER. TRAINING SHALL BE 8 HOURS OF TIME WITH MAXIMUM TRAINING PERIOD OF 4 HOURS.

GENERAL LEGEND

EC	ELECTRICAL CONTRACTOR.
FC	FIRE PROTECTION CONTRACTOR.
GC	GENERAL CONTRACTOR.
HC	HVAC CONTRACTOR.
PC	PLUMBING CONTRACTOR.
TC	TEMPERATURE CONTROLS CONTRACTOR.
NIC	NOT IN CONTRACT.
AFF	ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.
(E)	EXISTING.
ES	EQUIPMENT SUPPLIER.
3	NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
2	DETAIL NOTE SYMBOL - APPLIES ONLY TO DETAIL ON WHICH IS SHOWN.
H-1	EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.
H-1	EQUIPMENT REFERENCE SYMBOL. NO ELECTRICAL CONNECTION REQUIRED.
123	ROOM NUMBER.
B H2	DETAIL SYMBOL. DETAIL "B" SHOWN ON SHEET H2.
A H1	SECTION SYMBOL. SECTION "A" DESIGNATION, SHOWN ON SHEET H1.
FD1	CONNECTION, NEW TO EXISTING.
	UP TO SYMBOL. UP TO "FD1", SHOWN ON FLOOR ABOVE.
---	ITEM TO BE REMOVED.
---	EXISTING TO REMAIN.
---	NEW ITEM.

PLUMBING LEGEND

----	SANITARY DRAIN
----	VENT
—ST—	STORM DRAIN
—SST—	SECONDARY STORM DRAIN ABOVE FLOOR
—CD—	CONDENSATE DRAIN ABOVE FLOOR OR GRADE
----	COLD WATER
----	HOT WATER
----	HOT WATER RETURN
—G—	NATURAL GAS
—DW—	DENTAL WATER
—DV—	DENTAL VACUUM (AIR)
—DA—	DENTAL COMPRESSED AIR
⌞	SHUT-OFF VALVE, SEE SCHEDULE FOR TYPE
⌞	CHECK VALVE
⌞	BALANCING VALVE - REFER TO DOMESTIC HOT WATER RETURN BRANCH LINE VALVING DETAIL FOR ASSEMBLY REQUIRED AT EACH LOCATION
⌞	VALVE ON RISER
— —	UNION
⊗	PRESSURE REGULATOR
⊙	PRESSURE GAUGE
⊖	TEMPERATURE GAUGE
⌞	CONNECTION, BOTTOM
⌞	CONNECTION, TOP
→	DIRECTION OF FLOW
⌞	CAP
C.O.	CLEAN OUT
V.R.	VENT RISER
V.T.R.	VENT THRU ROOF
S.	SOIL STACK
S.S.	VENT STACK
D.S.	DOWNSPOUT (STORM)
S.D.S.	SECONDARY DOWNSPOUT (STORM)
S.S.O.	SECONDARY STORM OUTLET



0 4 8 16 24 32 40

SCALE: 1/8"=1'0"

1. P.C. TO REMOVE EXISTING STORM PIPING UNDER NEW BUILDING FOOT PRINT.
2. REFER TO CIVIL UTILITY DRAWINGS FOR REMOVAL OF STORM PIPING OUTSIDE.
3. P.C. TO REMOVE AND REPLACE EXISTING STORM LINE WITH NEW PIPING APPROVED FOR UNDERGROUND WITHIN BUILDING.

[illegible]

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**WARREN COUNTY CAREER
CENTER
MEDICAL ACADEMY**

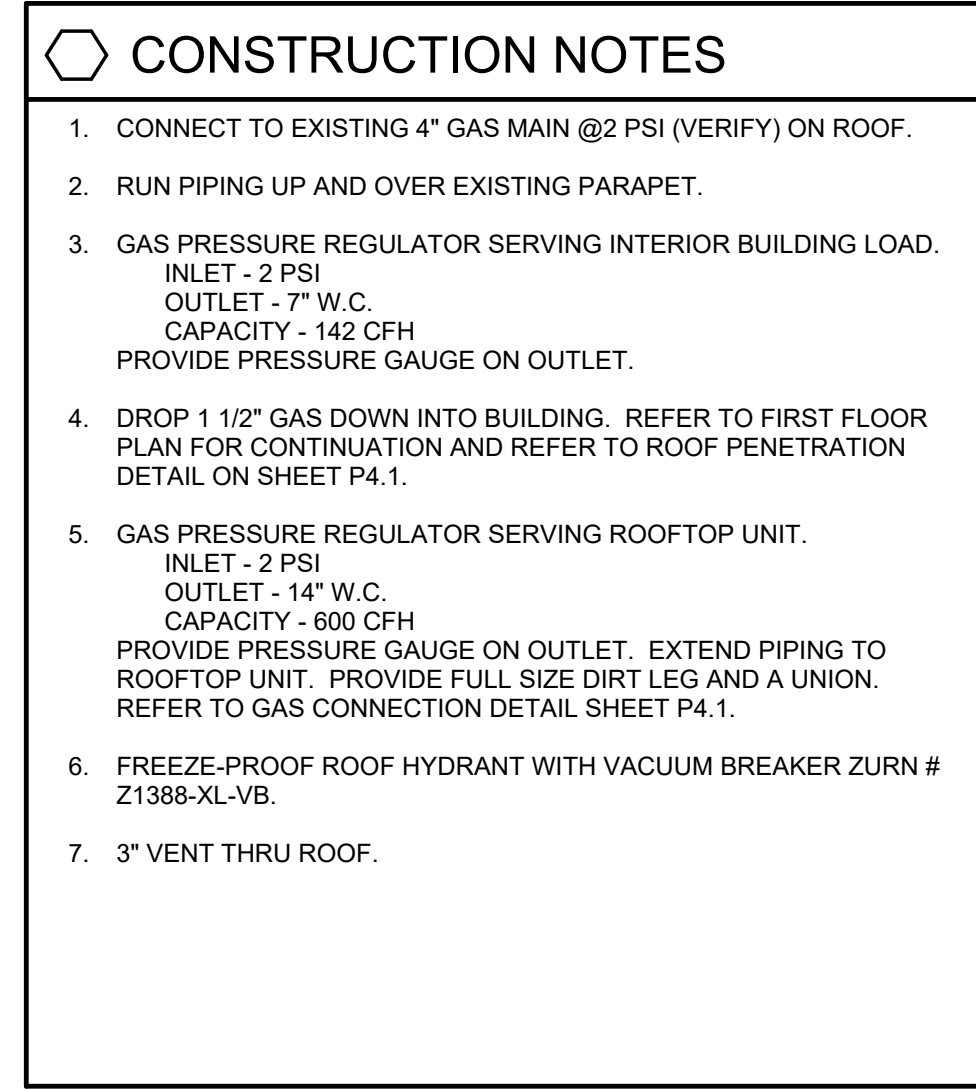
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J.D.Z.
DRAWN BY:
D.E.G.
DATE:
09.15.2026

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Levin Porter Associates Inc. dba Levin Porter Architects



DEMOLITION PLAN

P1.1



The seal is circular with a double-lined border. The outer ring contains the text "STATE OF OHIO" at the top and "REGISTERED PROFESSIONAL ENGINEER" at the bottom, separated by two stars. The center of the seal contains the text "JEFFREY D. ZELINSKI" and "63822".

PRINTINGS:

Bid / Permit Seal

CONSULTANTS

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 233-3921 • Fax: (937) 233-3940

**WARREN COUNTY CAREER
CENTER
MEDICAL ACADEMY**

3525 OH-48, Lebanon, OH 45036

PROJECT NO.

PROJECT #30000000

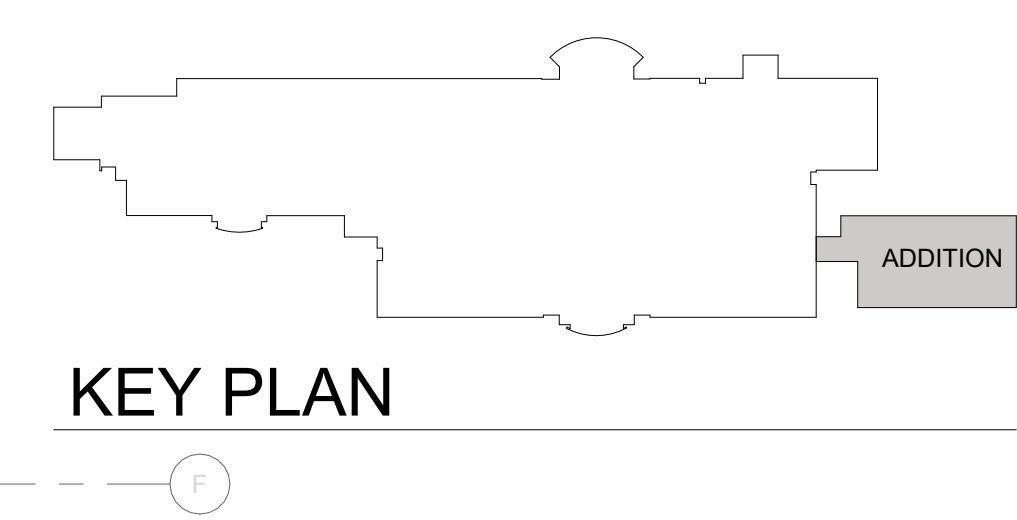
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J.D.Z.

DRAWN BY:
D.E.G.

DATE: 09/15/2026

NEW GAS LOAD SCHEDULE		
GENERAL NOTES		
- PIPING SIZED USING THE LONGEST LENGTH METHOD. - FLOW PRESSURE (7" WC & 14" WC) GAS PIPING SIZED USING TABLE 402.4(1) OF THE 2015 IFC. - HIGH PRESSURE (2 PSI) GAS PIPING SIZED USING TABLE 402.4(5) OF THE 2015 IFC.		
ITEM	LOAD	
ROOF TOP UNIT	600	CFH
GAS FIRED WATER HEATER	130	CFH
LAB OUTLETS (4 @ 3CFH EA)	12	CFH
TOTAL NEW LOAD	742	CFH



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



NEW WORK ROOF
PLAN

P2.2

DENTAL GAS SYSTEMS SCHEDULE

GENERAL NOTES:

PIPING SHALL CONFORM TO OBC AND NFPA 99 REQUIREMENTS.

INSTALLER SHALL BE QUALIFIED IN ACCORDANCE WITH ASSE 6010.

PIPING SHALL COMPLY WITH ASSE 6010.

JOIN COPPER TUBING IN ACCORDANCE WITH CDA'S "COPPER TUBE HANDBOOK".

BRAZING ALLOY SHALL BE AWS A5.8/A5.8M, BCP SERIES.

CONTINUOUSLY PURGE BRAZED JOINTS WITH OIL-FREE NITROGEN DURING BRAZING.

ANNUAL SPACE AROUND PIPING THRU ALL WALLS SHALL BE SEALED OFF WITH PERMANENT PLIABLE CAULKING OR APPROVED PATCHING SEALANT.

PROVIDE PIPING SLEEVES AT FLOORS, WALLS & ROOFS IN NEW CONSTRUCTION. EXISTING WALLS TO BE SAW CUT TO PASS NEW PIPING.

PIPING SHALL BE PITCHED FOR DRAINAGE.

SUPPORT PIPING FROM BUILDING STRUCTURE WITH RODS, ANGLES & CLAMPS ATTACHED TO STRUCTURE. HANG PIPING WITH CLEVIS HANGER OR ROLLER SUPPORTS. HANGERS SHALL BE INSTALLED ON CENTERS AS RECOMMENDED BY MANUFACTURER.

HANGERS AND SUPPORTS FOR MEDICAL GAS PIPING SHALL NOT BE USED FOR OTHER SERVICES.

HANGER SHALL BE CLEVIS TYPE WITH EITHER COPPER PLATED OR PLASTIC COATED TO ISOLATE COPPER PIPING FROM DISSIMILAR METALS.

VALVES

3-PIECE FULL PORT BALL VALVE - MSS SP-110, 300 PSI PRESSURE RATING, PTFE OR TFE SEAT, BRASS OR BRONZE, LEVER HANDLE WITH LOCKING DEVICE, MANUFACTURER INSTALLED COPPER TUBE EXTENSIONS, CLEANED PURGED AND SEALED PER CGA G-4.1 FOR OXYGEN. VALVES USED IN ZONE VALVE CABINETS SHALL HAVE A PRESSURE GAUGE INSTALLED IN ONE OF THE COPPER EXTENSIONS.

PIPE AND TUBING SHALL BE CUT AND FABRICATED TO FIELD MEASUREMENTS AND RUN PARALLEL TO NORMAL BUILDING LINES. PIPE INTERIOR SHALL BE CLEANED OF FOREIGN MATTER AND BURRS BEFORE ERECTION OF PIPE.

PIPING SHALL NOT BE RUN ABOVE ELECTRICAL SWITCHGEAR OR PANELBOARDS, NOR ABOVE THE ACCESS SPACE OF SUCH EQUIPMENT - NEC ARTICLE 384.

ALL PIPING SHALL BE TESTED AND CERTIFIED IN ACCORDANCE WITH NFPA 99, CATEGORY 3 DENTAL SYSTEMS.

TEST AND INSPECTION

PERFORM INSTALLER'S TEST IN ACCORDANCE WITH NFPA 99 AND ASSE 6010.

DENTAL WATER

-TEST AND DISINFECT PER DOMESTIC WATER REQUIREMENTS

DENTAL AIR

-VISUAL CROSS-CONNECTION INSPECTION.

-INITIAL PRESSURE TEST.

-INITIAL PIPING PURGE TEST.

-STANDING PRESSURE TEST.

-REPAIR LEAKS AND RETEST UNTIL NO LEAKS EXIST.

DENTAL VACUUM (PVC) - PRIOR TO BACKFILL

-VISUAL CROSS-CONNECTION INSPECTION.

-STANDING PRESSURE TEST.

TESTING CERTIFICATION

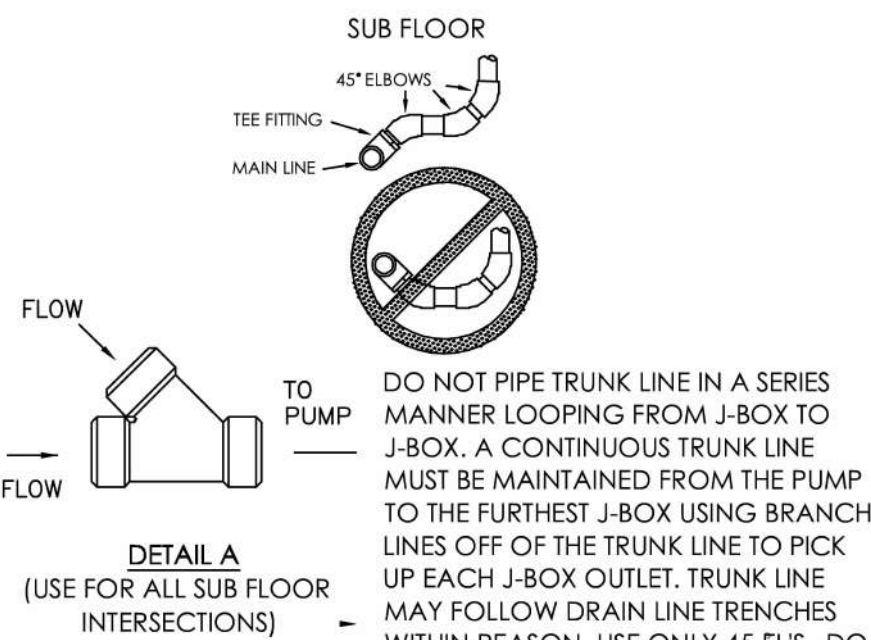
CERTIFY THAT SPECIFIED TESTS AND INSPECTIONS HAVE BEEN PERFORMED AND CERTIFY REPORT RESULTS.

REMOVE AND REPLACE COMPONENTS THAT DO NOT PASS TESTS AND INSPECTIONS AND RETEST AS SPECIFIED ABOVE.

PIPING SYSTEM		TYPE	
DENTAL WATER		C1, C5	
DENTAL WATER BELOW FLOOR IN GRADE		MC1	
DENTAL COMPRESSED AIR		MC1	
DENTAL VACUUM AND VACUUM EXHAUST		P1	
TYPE	DESCRIPTION	TYPE	DESCRIPTION
MC1	BRAZED COPPER FOR GASES SEAMLESS ASTM B819 TYPE "L" HARD COPPER MARKED "OKY", "MED", "OKY/MED", "OKY/ACR" OR "ACR/MED" COPPER FITTINGS ASME B16.22 OR MSS SP-73 PIPE AND FITTINGS SHALL BE MANUFACTURER CLEANED, PURGED, AND BAGGED ACCORDING TO CGA G-4.1	C1	SOLDERED COPPER TYPE "L" HARD COPPER ASTM B88 WROUGHT COPPER OR CAST BRONZE FITTINGS 95-5 SOLDER
		C5	PRESS-FIT COPPER TYPE "L" HARD COPPER ASTM B88 COPPER OR BRONZE FITTINGS ASTM B16.18 OR B16.22 250 DEG. F. EPDM SEALS
P1	PVC SCHEDULE 40 PVC ASTM D1785 DWV FITTINGS, ASTM D2466 GLUED JOINTS ASTM D2672 SEE DENTAL EQUIPMENT DRAWING FOR ADDITIONAL GUIDELINES FOR PIPING	C8	TYPE "K" SOFT COPPER ASTM B88 WROUGHT COPPER OR CAST BRONZE FITTINGS 95-5 SOLDER

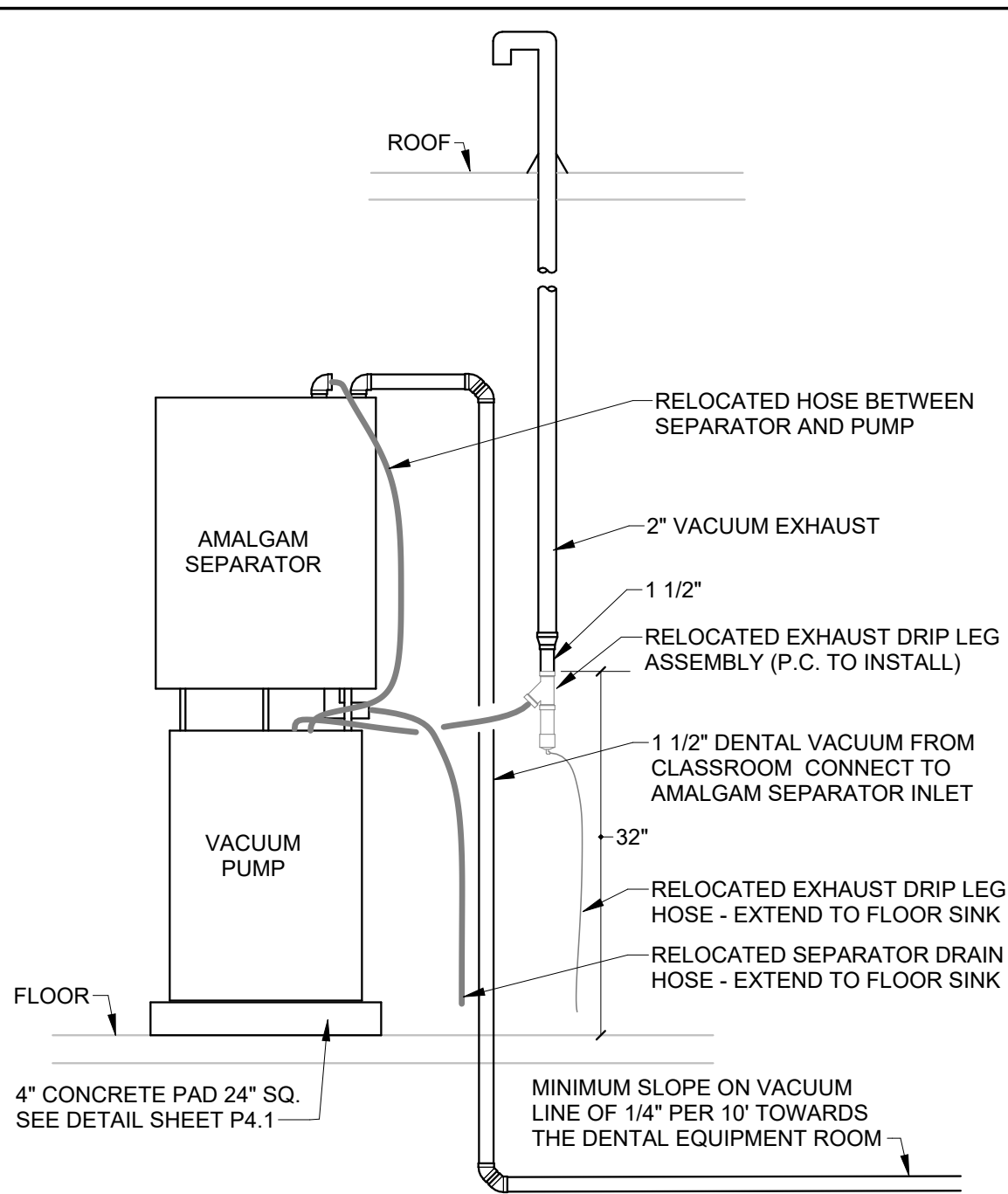
- STUB-UP
TERMINATE VACUUM TRUNK LINE IN MECHANICAL ROOM.
PLUMBING CONTRACTOR TO PROVIDE FPT ADAPTOR ON END OF
STUB-OUT FROM FLOOR OR WALL. SIZE OF ADAPTOR TO BE
DETERMINED BY TRUNK AND PUMP INTAKE PIPE SIZES.
 - TRUNK LINE(S)
VACUUM TRUNK LINE(S) TO BE SLOPED A MINIMUM OF 1/4" PER
10'-0" TOWARD THE VACUUM PUMP.
 - BRANCH LINE(S)
BRANCH LINES ARE TO HAVE "SWEEPING" 90 DEGREE TURNS TO
AVOID VACUUM LOSS. A "WYE" FITTING SHALL BE USED TO JOIN
BRANCH LINES TO THE TRUNK LINE.
- SPECIAL NOTE:
IF VACUUM LINES ENCRATCH ON EITHER A WALL OR COLUMN
FOOTING, USE 45 DEGREE ELBOWS TO PIPE AROUND FOOTING SO
PIPE REACHES PROPER LOCATION.

BRANCH LINE CONFIGURATION



1 DENTAL VACUUM PIPING NOTES

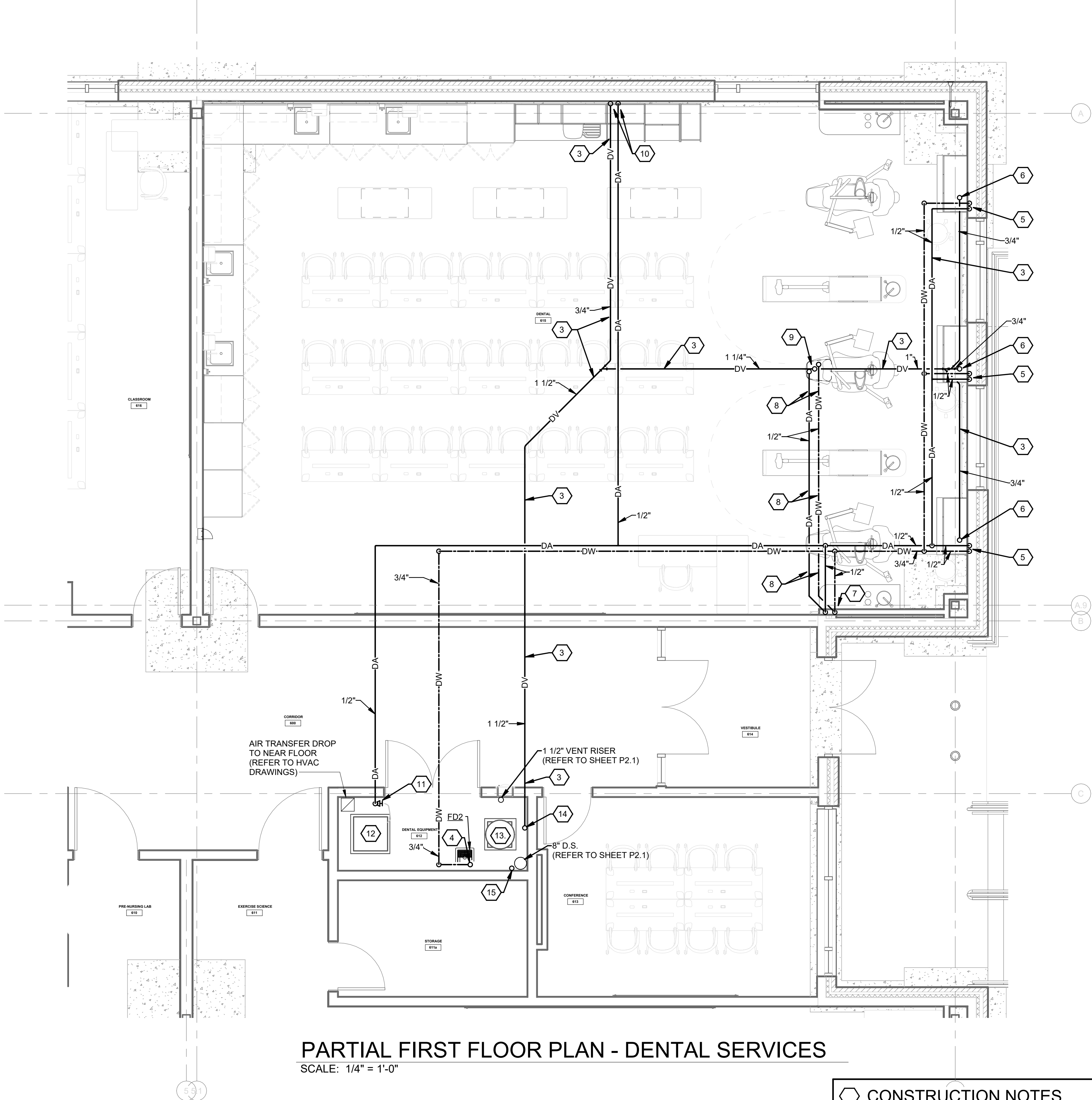
N.T.S.



PUMP AND SEPARATOR ARE TO BE RELOCATED FROM PROGRAM'S CURRENT LOCATION. RELOCATION SHALL BE BY DENTAL EQUIPMENT INSTALLER. COORDINATE CLOSELY WITH DENTAL EQUIPMENT INSTALLER TO VERIFY ALL ITEMS ARE RELOCATED OR REPLACED.

2 DENTAL VACUUM PUMP

N.T.S.



PARTIAL FIRST FLOOR PLAN - DENTAL SERVICES

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

CONSTRUCTION NOTES

- RELOCATED DENTAL VACUUM PUMP AND SEPARATOR. REFER TO DETAIL THIS SHEET - PROVIDE 24" SQUARE CONCRETE PAD. (REFER TO DETAIL SHEET P4.1)
- 1 1/2" DENTAL VACUUM FROM BELOW. EXTEND UP AND CONNECT TO AMALGAM SEPARATOR INLET. REFER TO DENTAL VACUUM PUMP DETAIL THIS SHEET.
- 2" VACUUM PUMP EXHAUST. EXTEND 2" UP AND THRU ROOF AND TURN DOWN. MAINTAIN APPROX. 2' CLEAR ABOVE FINISHED ROOF. REFER TO VACUUM PUMP DETAIL THIS SHEET. SECURE PIPING TO WALL NEAR BOTTOM AND NEAR TOP USING SPLIT RING PIPE CLAMP (ANVIL # 136R) WITH 3/8" THREADED ROD AND WALL FLANGE (ANVIL # 128).

GENERAL LEGEND

- EC ELECTRICAL CONTRACTOR.
- FC FIRE PROTECTION CONTRACTOR.
- GC GENERAL CONTRACTOR.
- HC HVAC CONTRACTOR.
- PC PLUMBING CONTRACTOR.
- TC TEMPERATURE CONTROLS CONTRACTOR.
- NIC NOT IN CONTRACT.
- AFF ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.
- (E) EXISTING.
- ES EQUIPMENT SUPPLIER.
- 3 NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
- 2 DETAIL NOTE SYMBOL - APPLIES ONLY TO DETAIL ON WHICH IS SHOWN.
- H-1 EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.
- H-1 EQUIPMENT REFERENCE SYMBOL. NO ELECTRICAL CONNECTION REQUIRED.
- 123 ROOM NUMBER.
- B H2 DETAIL SYMBOL. DETAIL "B" SHOWN ON SHEET H2.
- A H1 SECTION SYMBOL. SECTION "A" DESIGNATION. SHOWN ON SHEET H1.
- H1 CONNECTION, NEW TO EXISTING.
- FD1 UP TO SYMBOL. UP TO "FD1", SHOWN ON FLOOR ABOVE.
- ITEM TO BE REMOVED.
- EXISTING TO REMAIN.
- NEW ITEM.

DENTAL SERVICES LEGEND

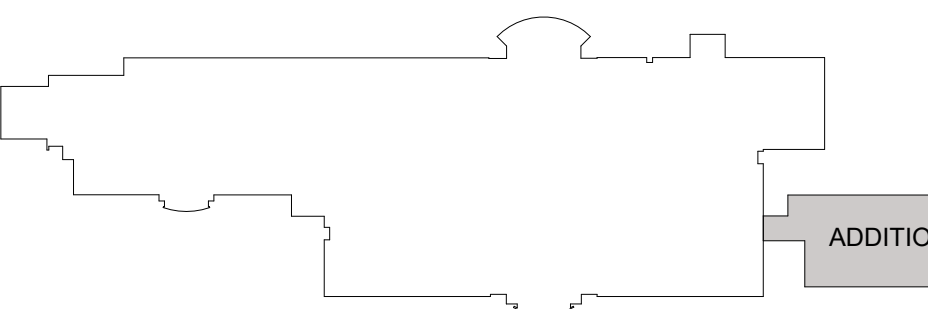
- DV DENTAL VACUUM
- DA DENTAL AIR
- DW DENTAL WATER

GENERAL NOTES

- ALL DENTAL GAS WORK SHALL BE IN ACCORDANCE WITH THE 2024 VERSION OF THE OHIO BUILDING AND PLUMBING CODES AND THE 2021 VERSION OF NFPA 99, INCLUDING REFERENCED CODES AND STANDARDS.
- OBTAIN A PLUMBING PERMIT AND SECURE INSPECTION AND APPROVAL OF THE CODE OFFICIAL.
- REFER TO ARCHITECTURAL CODE PLANS FOR LOCATIONS OF FIRE WALLS AND FIRE BARRIERS. IN FIRE WALLS AND FIRE BARRIERS, SEAL ALL PENETRATIONS WITH AN APPROVED FIRE STOPPING PRODUCT. SEE SPECIFICATIONS.
- REFER TO DIAGRAMS, DETAILS, AND SCHEDULES FOR PIPING AND PIPE SIZES NOT SHOWN ON PLAN OR ON DIAGRAMS.
- ALL PIPING IS ABOVE THE CEILING (AT THE CEILING IN EXPOSED STRUCTURE AREAS) UNLESS OTHERWISE INDICATED ON PLAN.
- ALL EQUIPMENT AND MATERIAL REQUIRED FOR COMPLETE AND FUNCTIONAL PLUMBING SYSTEMS SHALL BE INCLUDED IN THE CONTRACT. THE WORK SCOPE IN THE PROJECT MANUAL DEFINES THE FINAL CONTRACTUAL RESPONSIBILITY TO PROVIDE SUPPORTING EQUIPMENT, MATERIALS, FINISHINGS, UTILITY COST, ETC (EXAMPLES: CONCRETE PADS, PAINTING, TEMPORARY ELECTRICAL COSTS) FOR PRECEDENCE OVER OTHER SPECIFICATION SECTIONS OR DRAWING REQUIREMENTS.
- DENTAL AIR PIPING SHALL BE 1/2" (I.D.) MINIMUM SIZE UNLESS OTHERWISE INDICATED.
- DENTAL VACUUM PIPING SHALL BE 1/2" MINIMUM SIZE UNLESS OTHERWISE INDICATED.
- FACILITY IS CONSIDERED A DENTAL CATEGORY 3 FACILITY.

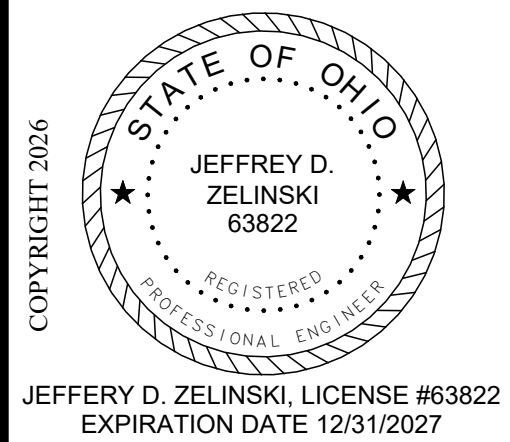
CONSTRUCTION NOTES

- INSTALL RELOCATED DENTAL AIR COMPRESSOR SUPPLIED BY OWNER.
- INSTALL RELOCATED DENTAL VACUUM PUMP SUPPLIED BY OWNER.
- DENTAL VACUUM PIPING BELOW THE FLOOR SLAB IN GRADE.
- FUTURE DENTAL WATER FILTER ROUGH-IN. CONNECT TO 3/4" COLD WATER VALVE APPROXIMATELY 42" A.F.F. AND RUN HORIZONTALLY 24" (FOR FUTURE FILTER ASSEMBLY) AND RISE BACK UP.
- DROP 1/2" DENTAL AIR AND 1/2" DENTAL WATER DOWN IN WALL TO UTILITY CENTER AND STUB PIPING 2" - 2 1/2" ABOVE FLOOR AND INSTALL VALVE FURNISHED BY DENTAL EQUIPMENT INSTALLER. COORDINATE EXACT LOCATION AND ROUGH-IN DETAILS WITH DENTAL EQUIPMENT INSTALLER.
- 1/2" DENTAL VACUUM FROM BELOW TO UTILITY CENTER. STUB PIPING 2" - 2 1/2" ABOVE FLOOR AND TERMINATE WITH A 5/8" TUBING CONNECTOR. COORDINATE EXACT LOCATION AND ROUGH-IN DETAILS WITH DENTAL EQUIPMENT INSTALLER.
- DROP 1/2" DENTAL AIR AND 1/2" DENTAL WATER DOWN IN WALL TO BELOW FLOOR.
- 1/2" DENTAL AIR AND 1/2" DENTAL WATER BELOW FLOOR IN GRADE.
- UTILITY CENTER FOR DENTAL CHAIR. STUB 1/2" DENTAL AIR AND 1/2" DENTAL WATER 2" ABOVE FLOOR AND INSTALL VALVE FURNISHED BY DENTAL EQUIPMENT INSTALLER. STUB VACUUM PIPING AND TERMINATE WITH A 5/8" TUBING CONNECTOR 1" ABOVE FLOOR. COORDINATE EXACT LOCATION AND ROUGH-IN DETAILS WITH DENTAL EQUIPMENT INSTALLER.
- STERI-CENTER CASEWORK. DROP 1/2" DENTAL AIR DOWN IN WALL AND INSTALL VALVE FURNISHED BY DENTAL EQUIPMENT INSTALLER AND STUB 3/4" DENTAL VACUUM FROM BELOW. COORDINATE EXACT LOCATION AND ROUGH-IN DETAILS WITH DENTAL EQUIPMENT INSTALLER.
- DROP 1/2" DENTAL AIR DOWN, VALVE AND PROVIDE 1/2" FPT CONNECTION AT 24" A.F.F. FOR HOSE TO DENTAL AIR COMPRESSOR (INCLUDED WITH COMPRESSOR.)
- DENTAL AIR COMPRESSOR. FURNISH MIDMARK "SMART AIR COMPRESSOR" # P21-050. PROVIDE 30" SQUARE CONCRETE PAD. (REFER TO DETAIL SHEET P4.1) CONNECT HOSE FURNISHED WITH COMPRESSOR TO DENTAL AIR SYSTEM (REFER TO NOTE 11) PIPE DISCHARGE TO FLOOR DRAIN.



KEY PLAN

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



REVISIONS :

Revision	Number	Description	Date
1	09.15.2025		
2			
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PRINTINGS :

Print	Permit Set	Scale	Notes
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PROJECT NO: PROJECT #283306.00
CHECKED BY: J.D.Z.
DRAWN BY: J.D.Z.
DATE: 09.15.2025

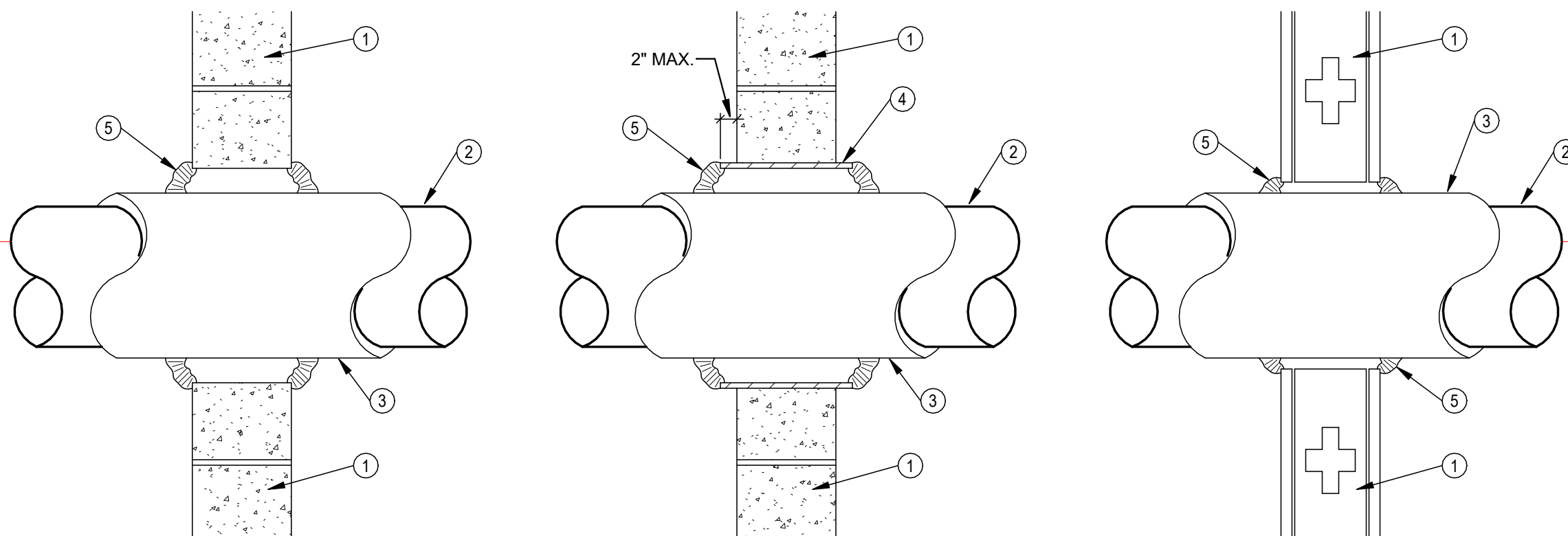
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NEW WORK PLAN
DENTAL SERVICES

P3.1



CONCRETE/MASONRY CONSTRUCTION
1/2" - 1.5" PIPES

CONCRETE/MASONRY CONSTRUCTION
2" AND LARGER PIPES

GYPSUM CONSTRUCTION
ALL PIPE SIZES

- 1 FULL HEIGHT INTERIOR WALL.
- 2 PIPE OR TUBING.
- 3 PIPE INSULATION, CONTINUOUS THROUGH WALL OPENING, SEE SCHEDULE FOR THICKNESS.
- 4 SCHEDULE 40 STEEL PIPE SLEEVE CAST OR GROUTED INTO WALL ASSEMBLY, ENDS FLUSH OR MAX. 2" BEYOND WALL SURFACE.
- 5 CAULK TO FILL VOID AT WALL/SLEEVE OPENING.

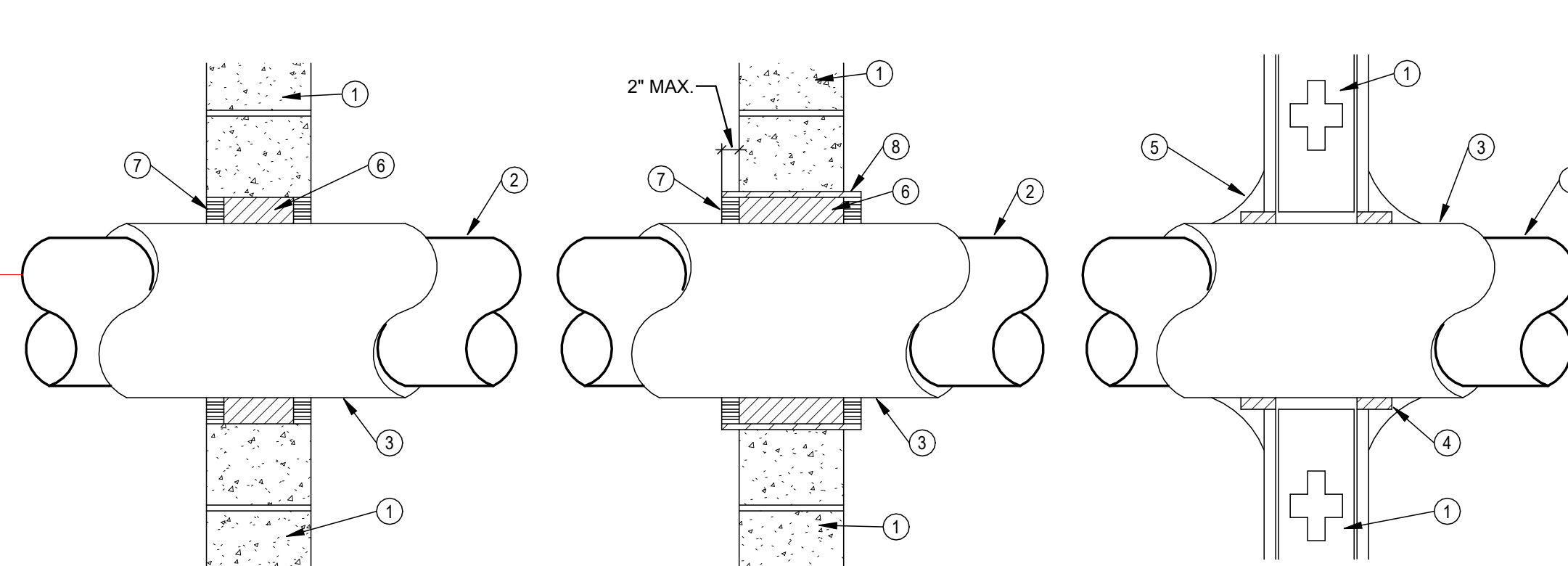
GENERAL NOTE:

A. SLEEVES ARE NOT REQUIRED IN THE FOLLOWING:

- IN FLOOR SLABS ON GRADE.
- IN STUD AND GYPSUM BOARD OR PLASTER WALLS AND PARTITIONS WHICH ARE NOT FIRE RATED.
- FOR UNINSULATED PIPE PASSING THRU MASONRY WALLS AND PARTITIONS AND STUD AND GYPSUM BOARD OR PLASTER WALLS AND PARTITIONS: SLEEVES ARE REQUIRED HOWEVER, FOR UNINSULATED CONDENSER WATER PIPING AND HYDRONIC HEAT PUMP PIPING FOR WHICH EXPANSION, CONTRACTION AND OTHER PIPE MOVEMENT CAN BE EXPECTED.
- IN CORE DRILLED OPENINGS IN SOLID CONCRETE NOT REQUIRING WATER PROTECTION. SLEEVES ARE REQUIRED, HOWEVER, AT CORE DRILLING THRU HOLLOW PRE-CAST SLABS AND CONCRETE BLOCK WALLS, TO FACILITATE CONTAINMENT OF REQUIRED FIRESTOPPING MATERIAL.
- IN LARGE FLOOR OPENINGS FOR MULTIPLE PIPE AND DUCT RISERS WHICH ARE WITHIN A FIRE RATED SHAFT, UNLESS THE OPENING IS TO BE CLOSED OFF WITH CONCRETE OR OTHER MATERIAL AFTER PIPE ARE SET.

- B. WHERE UNINSULATED PIPES REQUIRING NO PIPE SLEEVES PASS THRU NON-FIRE RATED FLOOR, WALL OR PARTITION, THE ANNULAR SPACE SHALL BE CLOSED WITH MATERIAL AND METHODS COMPATIBLE WITH THE WALL OR PARTITION MATERIAL (TYPE M MASONRY GROUT, DRYWALL JOINT COMPOUND, PLASTER, ETC.).

3 PIPE PENETRATIONS THRU NON-RATED WALL
N.T.S.



CONCRETE/MASONRY CONSTRUCTION
1/2" - 1.5" PIPES

CONCRETE/MASONRY CONSTRUCTION
2" AND LARGER PIPES

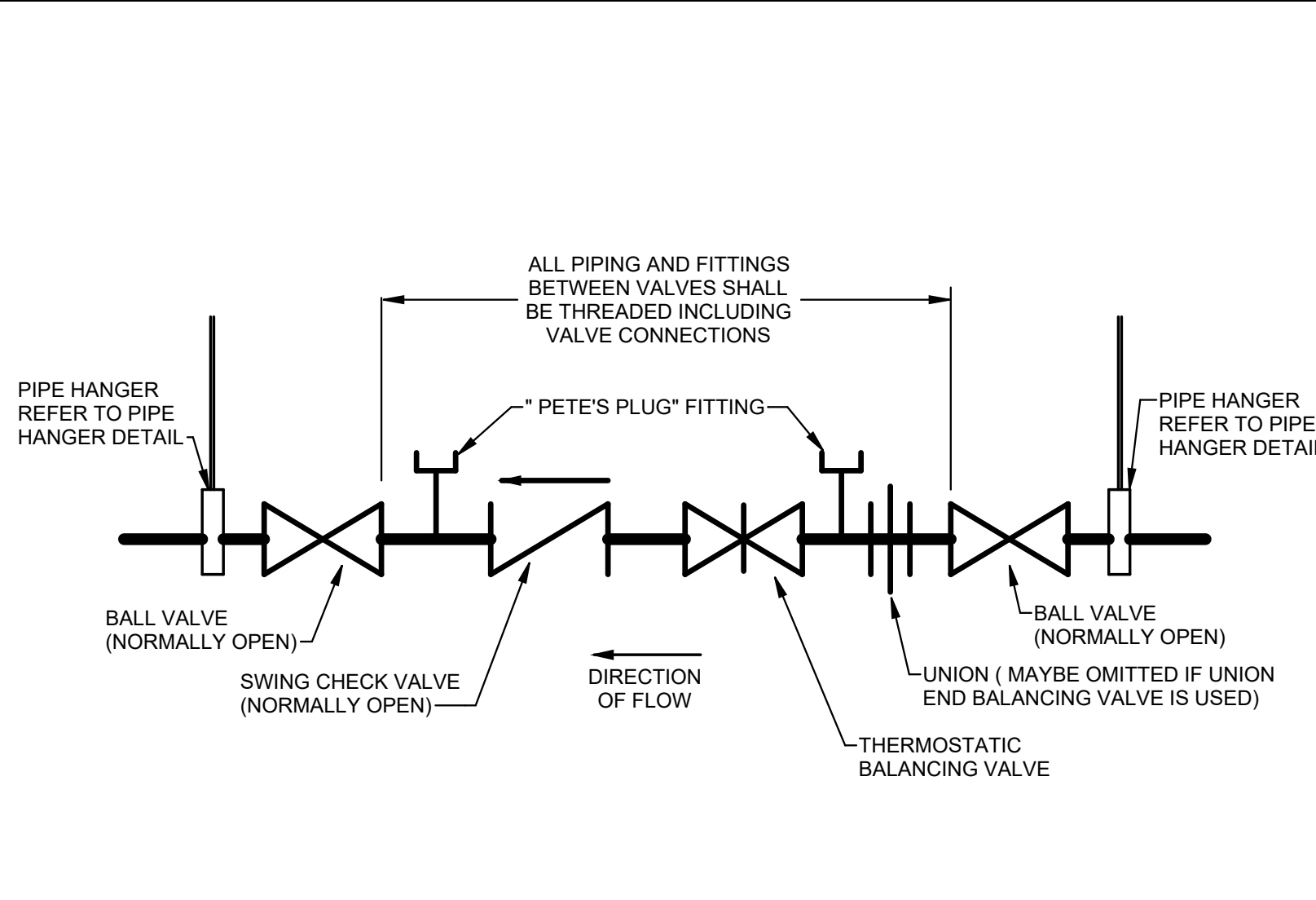
GYPSUM CONSTRUCTION
ALL PIPE SIZES

FIRESTOPPING MATERIALS/INSTALLATION

- MANUFACTURERS: 3M FIRE PROTECTION PRODUCTS HILTI FIRESTOP SYSTEMS
- FIRESTOPPING MATERIAL INSTALLATION SHALL BE PER THE MANUFACTURERS DETAILED INSTALLATION DIAGRAMS AND INSTRUCTIONS.
- F-RATING OF PENETRATION SHALL BE NO LESS THAN THE FIRE RATING OF THE WALL.
- SUBMITTAL SHALL INCLUDE PRODUCT DATA AND DETAILED INSTALLATION SYSTEM DIAGRAMS.

- 1 RATED WALL ASSEMBLY.
- 2 METALLIC PIPE OR TUBING.
- 3 PIPE INSULATION, CONTINUOUS THROUGH WALL OPENING, SEE SCHEDULE FOR THICKNESS.
- 4 APPROVED FIRESTOPPING VOID/CAVITY MATERIAL.
- 5 APPROVED FIRESTOPPING CAULK OR SEALANT.
- 6 PACKING MATERIAL, MINERAL WOOL BATT INSULATION.
- 7 APPROVED FIRESTOPPING CAULK OR SEALANT FLUSH WITH SURFACE OF WALL OR EDGE OF SLEEVE.
- 8 SCHEDULE 40 STEEL PIPE SLEEVE CAST OR GROUTED INTO WALL ASSEMBLY, ENDS FLUSH OR MAX. 2" BEYOND WALL SURFACE.

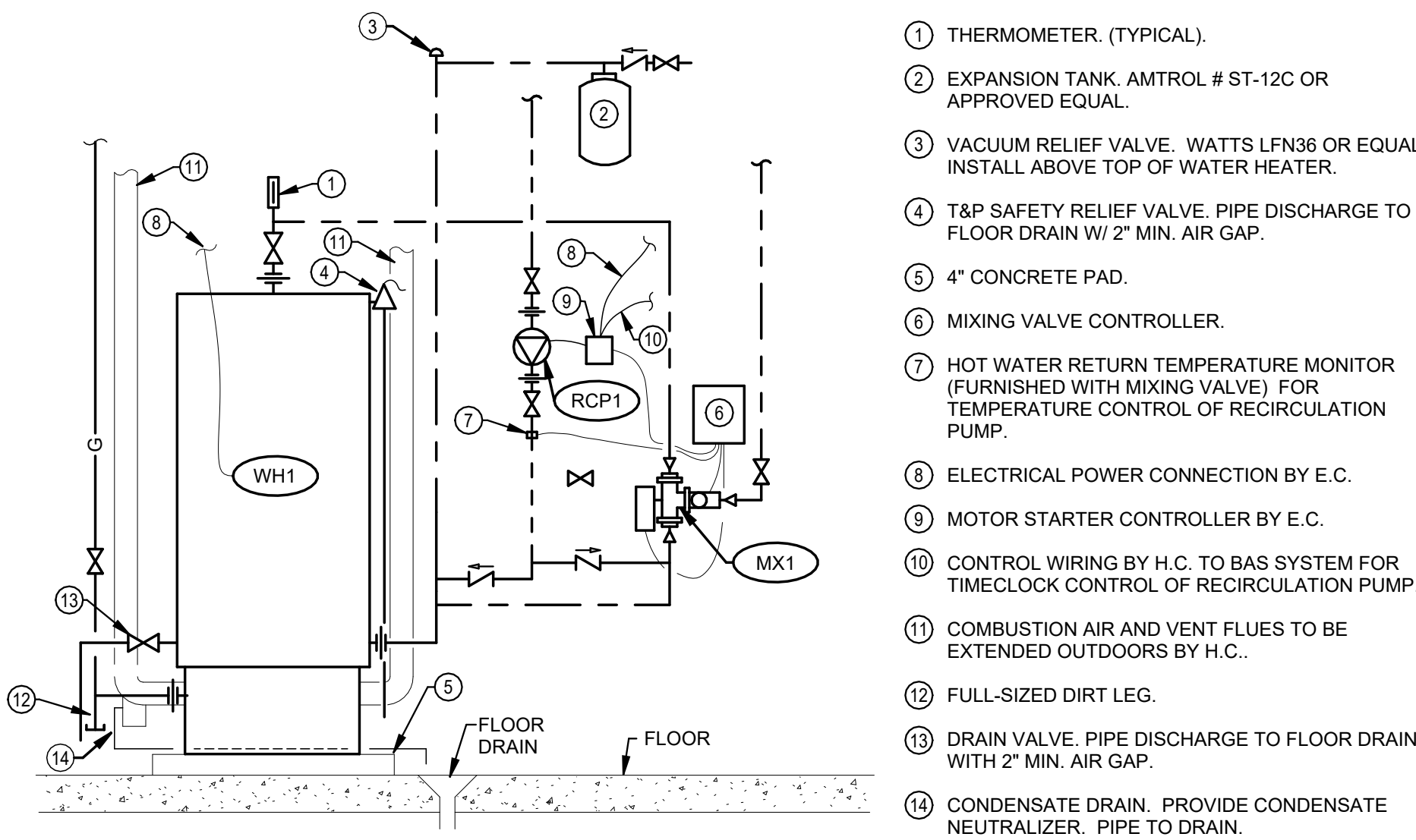
2 PIPE PENETRATIONS THRU FIRE RATED WALL
N.T.S.



5 DOMESTIC HOT WATER RETURN BRANCH LINE VALVING
SCALE: N.T.S.

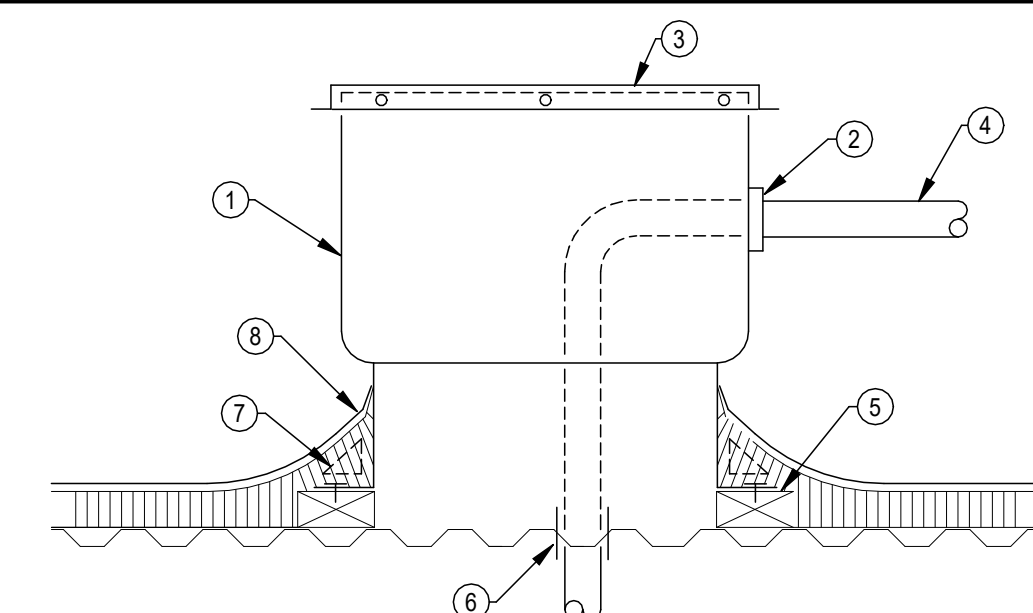
EQUIPMENT NOTES

- WH1 WATER HEATER #1.
GAS FIRED TANK TYPE HEATER W/ ST-ST. TANK AND HEAT EXCHANGER.
STORAGE - 34 GALLONS NOM.
RECOVERY - 165 GPH @ 90°F RISE
INPUT - 130,000 CFH
GAS PRESSURE - 7" W.C.
ELECTRICAL - 120V 1 PH
BASIS OF DESIGN - A.O. SMITH # GTP 199 OR APPROVED EQUAL.
- RCP1 HOT WATER RECIRC. PUMP #1
CAPACITY - 4.5 GPM @ 18 FT. HD
ELECTRICAL - 120V/1PH
BASIS OF DESIGN - B & G # ECOCIRC 36-45
REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND MANUFACTURERS
- MV1 120 DEGREE DIGITAL MIXING VALVE
INLET/OUTLET SIZE - 1"
CAPACITY - 58 GPM @ 7.5 PSI LOSS
MINIMUM FLOW - 3.1 GPM
BASIS OF DESIGN - CALEFFI LEGIOMIX 6003 SERIES
REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND MANUFACTURER



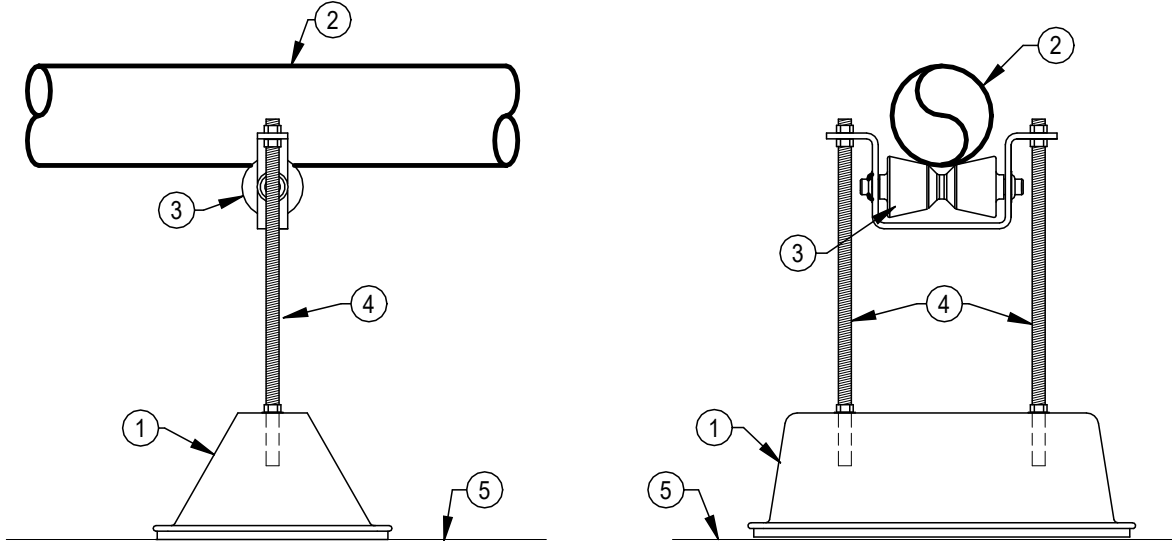
- 1 THERMOMETER, (TYPICAL).
- 2 EXPANSION TANK, AMTROL # ST-12C OR APPROVED EQUAL.
- 3 VACUUM RELIEF VALVE, WATTS LFN36 OR EQUAL, INSTALL ABOVE TOP OF WATER HEATER.
- 4 T&P SAFETY RELIEF VALVE, PIPE DISCHARGE TO FLOOR DRAIN W/ 2" MIN. AIR GAP.
- 5 4" CONCRETE PAD.
- 6 MIXING VALVE CONTROLLER.
- 7 HOT WATER RETURN TEMPERATURE MONITOR (FURNISHED WITH MIXING VALVE) FOR TEMPERATURE CONTROL OF RECIRCULATION PUMP.
- 8 ELECTRICAL POWER CONNECTION BY E.C.
- 9 MOTOR STARTER CONTROLLER BY E.C.
- 10 CONTROL WIRING BY H.C. TO BAS SYSTEM FOR TIMECLOCK CONTROL OF RECIRCULATION PUMP.
- 11 COMBUSTION AIR AND VENT FLUES TO BE EXTENDED OUTDOORS BY H.C.
- 12 FULL-SIZED DIRT LEG.
- 13 DRAIN VALVE, PIPE DISCHARGE TO FLOOR DRAIN WITH 2" MIN. AIR GAP.
- 14 CONDENSATE DRAIN, PROVIDE CONDENSATE NEUTRALIZER, PIPE TO DRAIN.

4 WH1 DOMESTIC WATER HEATER
N.T.S.



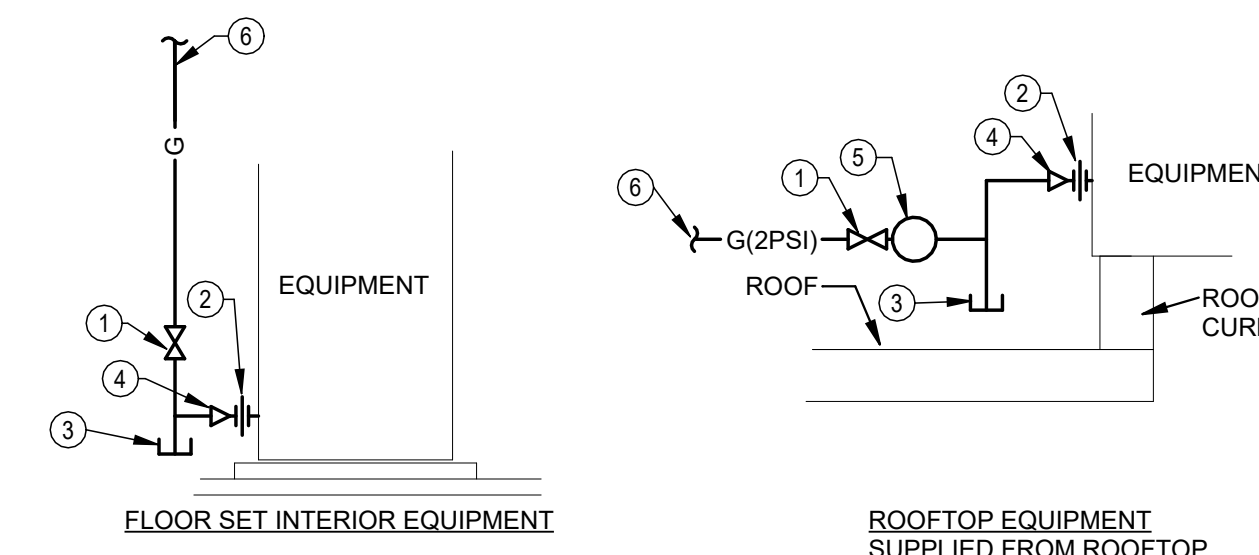
- 1 ROOF PENETRATION HOUSING ASSEMBLY RPH, "AMI VAULT" WITH EXIT SEALS, POWDER COATED ALUMINUM, PRE-INSULATED HOUSING (R4.3 @ 75°F), 14" ROOF CURB.
- 2 EXIT SEAL GASKET - STAINLESS STEEL.
- 3 REMOVABLE TOP W/ S.S. SCREWS.
- 4 PIPING.
- 5 WOOD BLOCKING FASTENED TO ROOF AROUND ENTIRE PERIMETER. ATTACH CURB TO BLOCKING.
- 6 CUT ROOF DECKING AS REQUIRED TO PASS PIPING.
- 7 INSULATION AND CANTING BY ROOFING CONTRACTOR.
- 8 FLASHING BY ROOFING CONTRACTOR

X ROOF PENETRATION HOUSING ASSEMBLY
N.T.S.



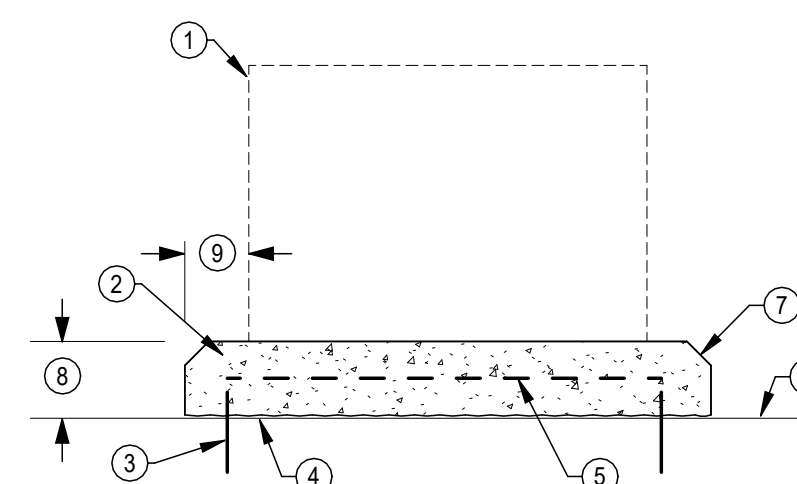
- 1 PIPE SUPPORT ASSEMBLY - NVENT # CADDY PYRAMID RL SERIES OR APPROVED EQUAL. SPACING PER MANUFACTURER'S RECOMMENDATIONS.
- 2 PIPE.
- 3 ADJUSTABLE HEIGHT PIPE SUPPORT WITH POLYMERIC ROLLER.
- 4 ADJUSTABLE THREADED ROD.
- 5 ROOF.

PIPE ROOF SUPPORT
N.T.S.



- 1 GAS VALVE.
- 2 UNION, (TYPICAL).
- 3 FULL SIZE DIRT LEG.
- 4 REDUCER (SEE PLAN FOR STARTING SIZE TO EQUIPMENT CONNECTION SIZE.)
- 5 PRESSURE REGULATOR INLET PRESSURE - 2 PSI OUTLET PRESSURE - 14" W.C. CAPACITY - 600 CFH
- 6 SEE PLAN FOR CONTINUATION.

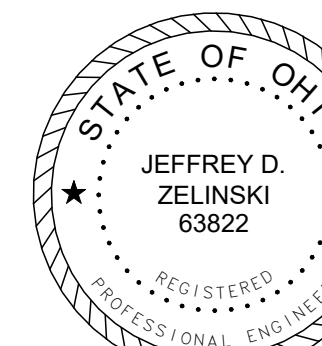
NATURAL GAS CONNECTION DETAIL
N.T.S.



- 1 OUTLINE OF EQUIPMENT.
- 2 4,000 PSI CONCRETE.
- 3 1-#4 DOWEL, 6" LONG, EACH CORNER.
- 4 ROUGHEN SLAB & APPLY BONDING AGENT.
- 5 STEEL REINFORCING MESH.
- 6 FINISHED CONCRETE FLOOR.
- 7 45 DEG. CHAMFER ALL AROUND.
- 8 4" THICK CONCRETE SLAB.
- 9 MINIMUM 2" DISTANCE.

NOTE: OVERALL DIMENSION TO BE DETERMINED BY CONTRACTOR.

X INTERIOR CONCRETE EQUIPMENT PAD
N.T.S.



JEFFREY D. ZELINSKI
63822

JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2027

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Bld / Permit Set	Date
09.15.2025	

REVISIONS :

Number	Description

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PROJECT NO:
PROJECT #263306.00

CHECKED BY:
J.D.Z.

DRAWN BY:
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D.E.G.

DATE:
09.15.2025

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DETAILS

P4.1

GENERAL NOTES - HVAC

1. PROVIDE COMPLETE AND FUNCTIONAL HVAC SYSTEMS PER HVAC PLANS INCLUDING FURNISHING, INSTALLING, TESTING AND COMMISSIONING OF ALL EQUIPMENT.
2. WORK SHALL BE IN ACCORDANCE WITH THE 2024 OHIO BUILDING AND MECHANICAL CODES INCLUDING REFERENCED CODES AND STANDARDS, ALL FEDERAL, STATE, AND LOCAL ORDINANCES, ALL APPLICABLE LAWS, ORDINANCES AND REGULATIONS.
3. WORK SHALL BE PERFORMED USING BEST QUALITY INSTALLATION PRACTICE BY A QUALIFIED TRADE CONTRACTOR. ALL EQUIPMENT AND MATERIALS SUPPLIED BY CONTRACTOR SHALL BE LICENSED AND BE BONDED FOR THE WORK.
4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA AND OWNER SAFETY STANDARDS AND PRACTICES. ALL ON SITE WORKER SHALL BE SAFETY TRAINED AND OWNER CERTIFIED.
5. OBTAIN REQUIRED PERMITS RELATED TO THE WORK AND PAY ALL PERMIT AND INSPECTION FEES.
6. THE AUTHORITY HAVING JURISDICTION SHALL INSPECT AND APPROVE ALL WORK. PROVIDE A FINAL CERTIFICATE OF COMPLETION FROM THE AUTHORITY HAVING JURISDICTION AND PRESENT TO THE OWNER BEFORE REQUESTING FINAL PAYMENT AND RELEASE OF RETAINAGE.
7. ALL EQUIPMENT AND MATERIAL REQUIRED FOR COMPLETE AND FUNCTIONAL HVAC SYSTEMS ARE INCLUDED IN THE CONTRACT PRICE.

GENERAL REQUIREMENTS - HVAC

1. PROTECT ALL FURNISHED MATERIAL AND EQUIPMENT FROM THEFT AND DEGRADATION OR CONTAMINATION DUE TO WORKING ON CONSTRUCTION ACTIVITIES.
2. PROTECT OWNER'S PROPERTY AND PROPERTY OF OTHER CONTRACTORS.
3. REMOVE ALL CONSTRUCTION DEBRIS FROM SITE. RECYCLE DEBRIS WHERE POSSIBLE. DISPOSE OF ALL HAZARDOUS MATERIAL IN ACCORDANCE WITH ENVIRONMENTAL LAWS.
4. PROVIDE ALL CUTTING AND PATCHING REQUIRED TO INSTALL MATERIAL AND EQUIPMENT.
5. EXISTING ROOF PATCHING SHALL BE SUBCONTRACTED TO A BONDED ROOFING CONTRACTOR FAMILIAR WITH THE ROOFING SYSTEM, MATERIALS, AND DEMANDS OF THE WARRANTY.
6. PROVIDE APPROPRIATE FIRESTOPPING SYSTEM FOR ANNULAR SPACE OPENING AROUND DUCT AND PENETRATIONS THROUGH FIRE RESISTANCE RATED CONSTRUCTION. ANNULAR SPACE OPENINGS AT DUCT OR PIPE PENETRATIONS IN NON-ROOFING STRUCTURES MUST BE CLOSED AIR AND WATER TIGHT.
7. MATERIALS AND EQUIPMENT SHALL BE ONE OF THE BRAND OR MANUFACTURERS LISTED OR AN APPROVED EQUAL.
8. ELECTRONIC SHOP DRAWINGS SHALL BE PROVIDED IN PDF FORMAT FOR THE ENGINEER'S APPROVAL FOR ALL MATERIALS AND EQUIPMENT. SHOP DRAWINGS SHALL BE SPECIFICALLY EXCLUDED TO MINIMIZE SUPERFLUOUS INFORMATION AND SHALL CLEARLY SHOW SPECIFICATIONS FOR THE MATERIAL AND EQUIPMENT PROVIDED.
9. COORDINATE INSTALLATION OF ACTUAL EQUIPMENT AND SYSTEMS PROVIDED WITH OTHER TRADES AND NEW OR EXISTING STRUCTURAL CONDITIONS.
10. PROJECT CONDITIONS REQUIRE COORDINATION TO MAKE SYSTEMS FIT IN THE AVAILABLE SPACE. ALLOW FOR EXPECTED MINOR OFFSETS OR RELOCATION SYSTEM OR EQUIPMENT WITHOUT REQUEST FOR COMPENSATION ADJUSTMENT.
11. INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE REQUIRED CLEARANCES TO MEET CODE REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS AND MAINTENANCE SERVICE.
12. ALL WORK AREAS SHALL BE CLEANED TO MATCH ORIGINAL CONDITION.
13. PROVIDE TESTING, ADJUSTING AND BALANCING (TAB) REPORTS FOR FAN AND WATER SYSTEMS. A CERTIFIED AABC OR NEBB FIRM SHALL PROVIDE THE BALANCE.
14. PROVIDE FINAL COORDINATION/INSTALLATION DRAWINGS TO THE OWNER IN BOUND PAPER AS WELL AS ELECTRONIC FORMAT FOR RECORD.
15. MAINTAIN RECORD DRAWINGS AND PROVIDE TO THE OWNER OR HIS AGENT.
16. PROVIDE TWO (2) BOUND, PAPER COPIES OF ALL OPERATING AND MAINTENANCE MANUALS. PROVIDE AN ELECTRONIC COPY OF THE OPERATING AND MAINTENANCE MANUAL.
17. PROVIDE WARRANTY FOR ALL WORKSMANSHIP, EQUIPMENT AND MATERIAL. WARRANTY SHALL BE 1 YEAR FOR PART AND LABOR. PROVIDE EXTENDED WARRANTY PERIOD FOR PARTS AND LABOR AS SPECIFIED OR AS STANDARD FOR CERTAIN ITEMS OF EQUIPMENT.
18. PROVIDE TRAINING AND MAINTENANCE INSTRUCTION FOR SYSTEMS AND EQUIPMENT TO THE OWNER. TRAINING SHALL BE 8 HOURS OF TIME WITH MAXIMUM TRAINING PERIOD OF 4 HOURS.

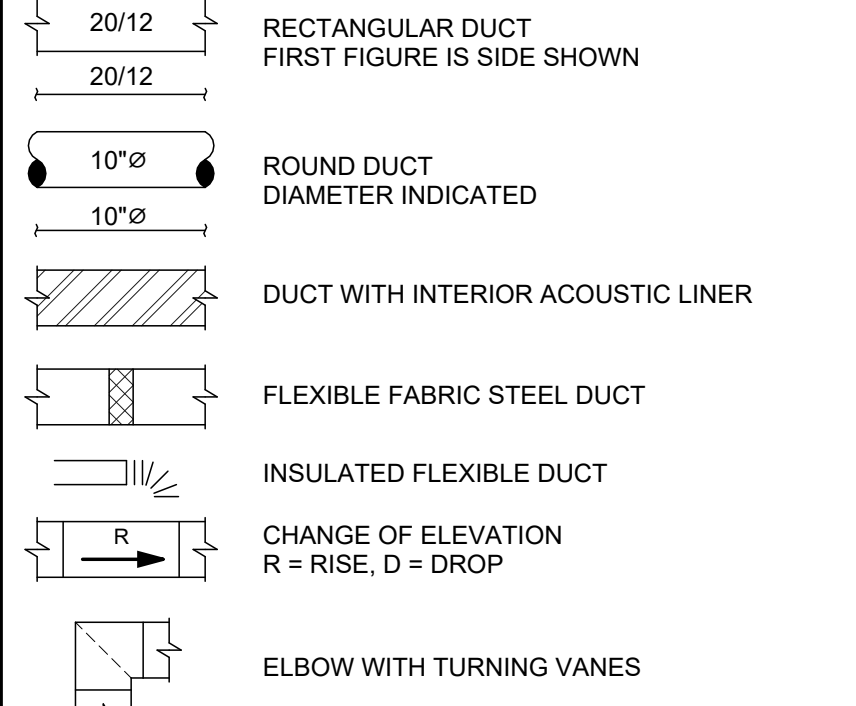
HVAC CLIMATE DESIGN NOTES

1. THE HVAC SYSTEM IN THE BUILDING IS DESIGNED FOR A SUMMER INDOOR AIR TEMPERATURE OF 72°F/50% RH AND A WINTER INDOOR AIR TEMPERATURE OF 68°F.
2. AIR TEMPERATURE DESIGN CONDITIONS:
 - A. SUMMER CONDITIONS:
 - a. OUTSIDE AIR: 93°F DRY BULB / 75°F WET BULB
 - b. RETURN AIR: 72°F DRY BULB / 50% RELATIVE HUMIDITY
 - B. WINTER CONDITIONS:
 - a. OUTSIDE AIR: 0°F DRY BULB
 - b. RETURN AIR: 66°F DRY BULB

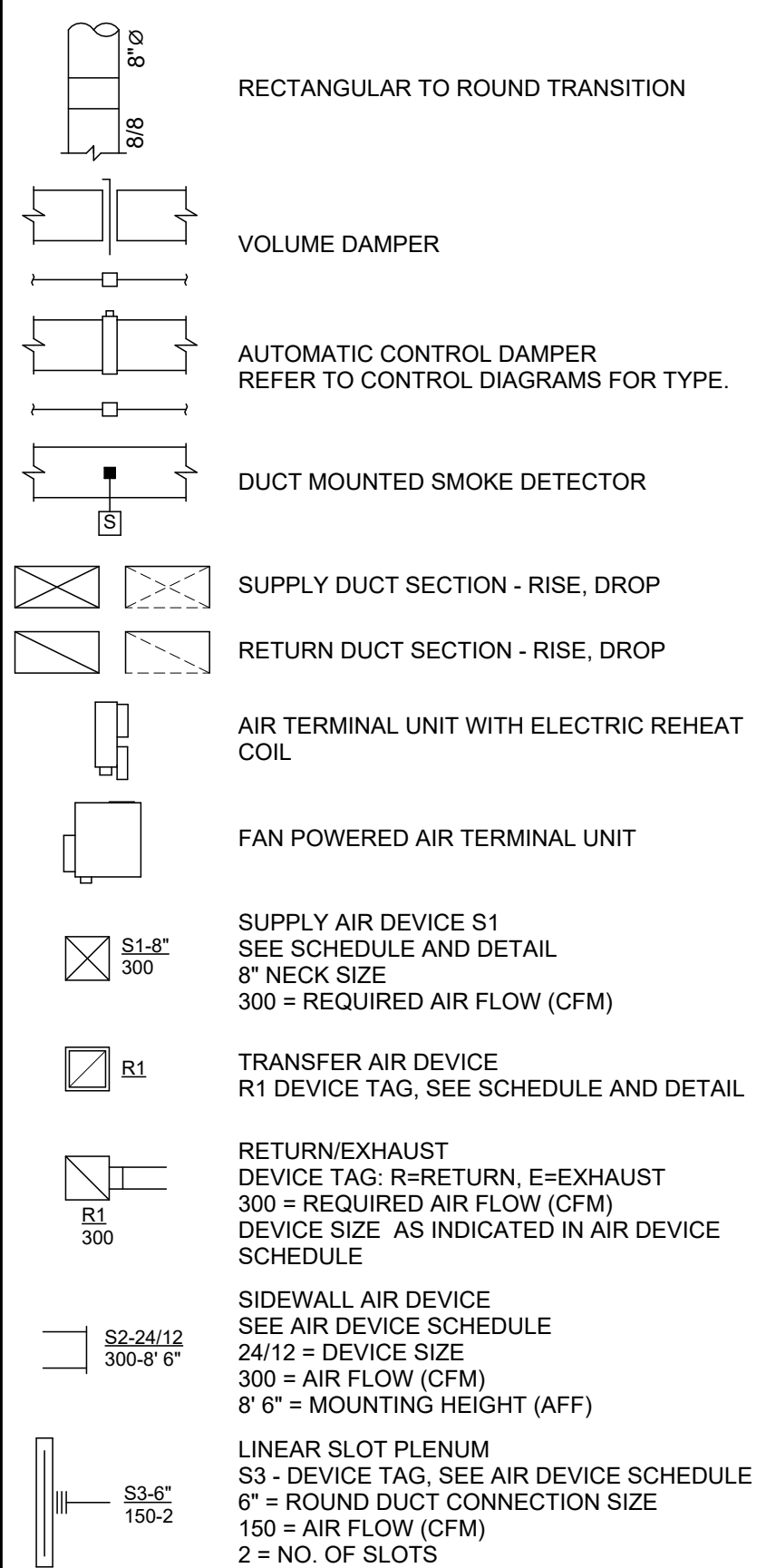
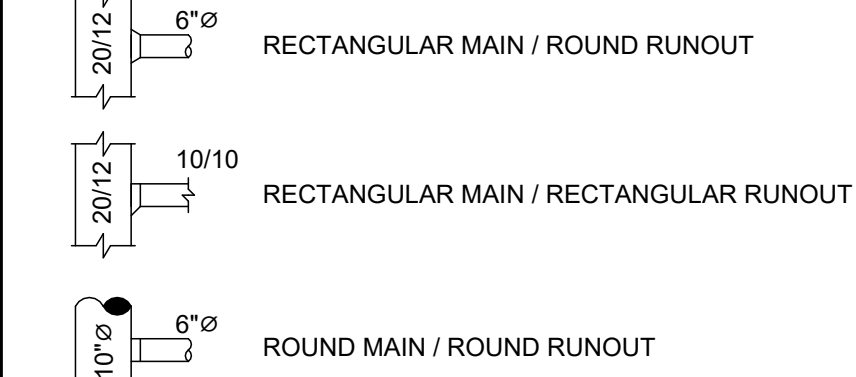
AIR BALANCING GENERAL NOTES

1. THE CONNECTED LOW FLOW OF THE AIR TERMINAL UNITS EXCEEDS THE DESIGN AIR FLOW OF THE ROOFTOP UNIT SUPPLY FAN. THE CONTRACTOR SHALL SHUT DOWN THE SUPPLY FAN AND BALANCE BY CLOSING SELECTED TERMINAL UNITS AND THEN BALANCING THE REMAINDER TO ACHIEVE A SUPPLY AIR DESIGN FLOW RATE. THE CONTRACTOR SHALL SET THE RETURN AIR FLOWMETER READ AND SET THE DUCT 2/3RDS STATIC PRESSURE SET POINT AND INPUT THAT SET POINT INTO THE DDC SYSTEM FOR THE STATIC PRESSURE SET POINT.
2. THE RETURN FAN SHALL BE BALANCED USING THE FAN'S VFD TO A FLOW RATE OF 13,300 CFM FOR THE CORRESPONDING DESIGN CONDITIONS. THE RETURN STATIONS ONCE THE ABOVE RETURN FAN'S VFD SHALL BE INPUT INTO THE DDC SYSTEM AS A MAXIMUM SPEED WHICH THE FAN SHALL NOT EXCEED.
3. THE AIR BALANCER, IN COORDINATION WITH THE TEMPERATURE CONTROLS CONTRACTOR, SHALL CALIBRATE THE AIR FLOWMETER AND FLOW STATIONS ONCE THE ABOVE AIR FLOWS ARE PROVEN VIA INSTRUMENT VERIFICATION. THE DDC SYSTEM SHALL MODULATE THE RETURN AND OUTDOOR AIR FLOWS IN UNISON TO MAINTAIN THE MINIMUM OUTDOOR AIR FLOW RATE.

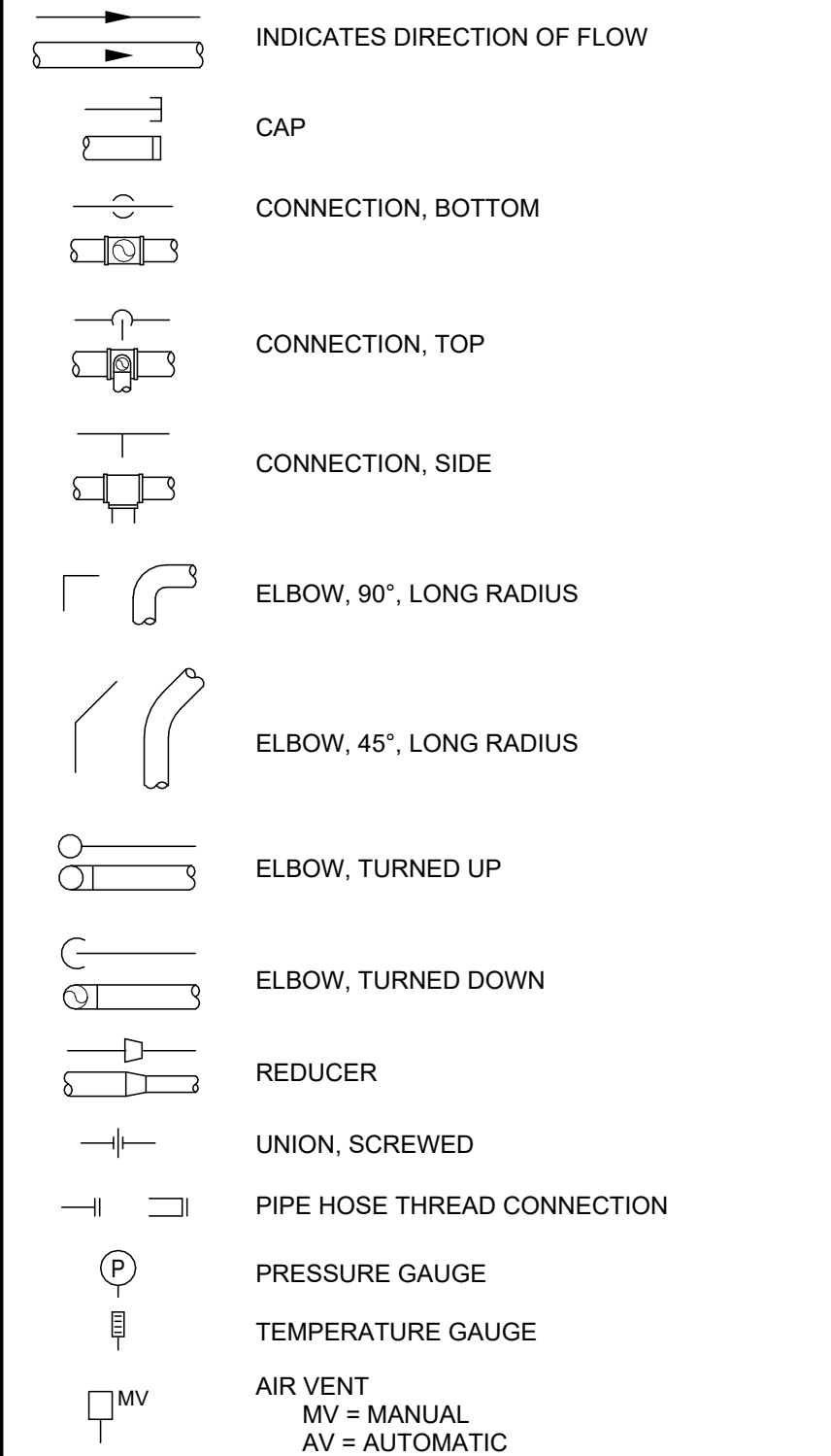
DUCTWORK LEGEND



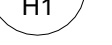
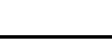
DUCT RUNOUTS - REFER TO DETAILS FOR FITTING TYPES



PIPING LEGEND



GENERAL LEGEND

EC	ELECTRICAL CONTRACTOR.
FC	FIRE PROTECTION CONTRACTOR.
GC	GENERAL CONTRACTOR.
HC	HVAC CONTRACTOR.
PC	PLUMBING CONTRACTOR.
TC	TEMPERATURE CONTROLS CONTRACTOR.
AFF	ABOVE FINISHED FLOOR – TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.
(E)	EXISTING.
	NOTE SYMBOL. ONLY SHOWN TO SHEET ON WHICH IS SHOWN.
	DETAIL NOTE SYMBOL. APPLIES ONLY TO DETAIL ON WHICH IS SHOWN.
	EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.
	EQUIPMENT REFERENCE SYMBOL. NO ELECTRICAL CONNECTION REQUIRED.
	ROOM NUMBER.
	DETAIL SYMBOL.
	DETAIL "B" SHOWN ON SHEET H2.
	SECTION SYMBOL.
	SECTION "A" DESIGNATION. SHOWN ON SHEET H1.
NEW ITEM.	

TEMPERATURE CONTROLS LEGEND

ABBREVIATIONS

A.I. -	ANALOG INPUT
A.O. -	ANALOG OUTPUT
AFMS -	AIR FLOW MEASURING STATION
BAS -	BUILDING AUTOMATION SYSTEM
DDC -	DIRECT DIGITAL CONTROLS
D.I. -	DIGITAL INPUT
D.O. -	DIGITAL OUTPUT
ECM -	ELECTRICALLY COMMUTATE MOTOR
M.C. -	MASTER CONTROLLER
N.O. -	NORMALLY OPEN
N.C. -	NORMALLY CLOSED
SCR -	SILICON CONTROLLED RECTIFIER
VFD -	VARIABLE FREQUENCY DRIVE

SENSORS & TRANSMITTERS

T	TEMPERATURE SENSOR
H	HUMIDITY SENSOR
TH	COMBINATION TEMPERATURE & HUMIDITY SENSOR
THC	COMBINATION TEMPERATURE & CARBON DIOXIDE SENSOR
P	PRESSURE SENSOR
E	ENTHALPY SENSOR
TT	THERMOSTAT - LINE OR LOW VOLTAGE
PI	HUMIDISTAT
R	RELAY

DAMPERS



GAUGES

PDG PRESSURE DIAL GAUGE - REFER TO SPECIFICATION FOR RANGE:
 • AIRFLOW UNITS: IN. W.C.
 • WATER UNITS: PSI

SAFETY DEVICES

- WIRED DIRECTLY TO EQUIPMENT STARTER W/ MANUAL RESET
- ☒ DUCTWORK SMOKE DETECTOR - RELAY & LOW VOLTAGE W/ TO FAN CONTROLLER BY T.C.
- ☐ HIGH STATIC SAFETY SWITCH

HVAC INDEX OF DRAWINGS

SHEET	DRAWING TITLE
H0.1	LEGENDS, SCHEDULES & NOTES
H0.2	EQUIPMENT & MATERIAL SCHEDULES
H2.1	FIRST FLOOR NEW WORK PLAN
H2.2	ROOF NEW WORK PLAN
H3.1	DETAILS - DUCTWORK
H3.2	DETAILS - AIR DEVICES
H3.3	DETAILS - EQUIPMENT
H4.1	TEMPERATURE CONTROLS
H4.2	TEMPERATURE CONTROLS
H5.1	VENTILATION

FAN & ROOF VENTILATOR SCHEDULE

BASIS OF DESIGN - GREENHECK

REFER TO SPECIFICATIONS FOR OTHER MANUFACTURERS

VFD DRIVEN MOTORS SHALL BE PROVIDED WITH SHAFT GROUNDING RINGS, VFD DUTY MOTORS

REFER TO FAN INSTALLATION DETAILS FOR RESPECTIVE MOUNTING TYPE.

REFER TO DETAIL(S) FOR FANS PROVIDED WITH HOA CONTROLLERS.

FOR CONTROLS & SEQUENCE OF OPERATIONS, REFER TO CONTROLS DIAGRAMS SHEETS.

PROVIDE 14" HIGH ROOF CURB FOR ROOF MOUNTED FANS AND ROOF VENTILATORS UNLESS OTHERWISE NOTED.

TAG	SERVICE	AREA SERVED	DESCRIPTION	MODEL NUMBER & SIZE	ROOF OPENING (L x W)	CAPACITY			ELECTRICAL		DISCONNECT WITH FAN	ELECTRIC	DRIVE TYPE	MOUNTING	APPLICATION	ACCESSORIES & OPTIONS	CONTROLS					NOTES
						AIRFLOW (CFM)	E.S.P. (IN. W.G.)	SPEED (RPM)	MOTOR (HP)	V/PH												
EF-1	EXHAUST	MEDICAL ADDITION	ROOF MOUNTED DOWNBLAST CENTRIFUGAL FAN	#G-100-VG	12.5" SQ.	450	0.25	1443	1/10	115/1	●											1,2
EF-2	EXHAUST	DENTAL EQUIP.	ROOF MOUNTED DOWNBLAST CENTRIFUGAL FAN	#G-100-VG	12.5" SQ.	450	0.25	1443	1/10	115/1	●											1,2

- NOTES:
- DIAL SPEED CONTROLLER MOUNTED ON FAN FOR BALANCING
 - MOTORIZED DAMPER PROVIDED AND INSTALLED BY H.C., E.C. TO PROVIDE POWER TO DAMPER ACTUATOR.

AIR TERMINAL UNIT SCHEDULE - ELECTRIC

GENERAL NOTES

UNITS ARE VARIABLE AIR VOLUME, ELECTRIC REHEAT.

ENTERING AIR TEMP. (DEG. F) 51

EQUAL BY TITUS, TUTTLE & BAILEY 0.6" S.P.

CV - CONSTANT VOLUME

VV - VARIABLE VOLUME

DESIGN BASIS- PRICE MODLE SDV

MAX. NC 25, WITH 10db ROOM ABSORBTION AT 1.5" SP AND MAX AIR FLOW.

UNITS TO HAVE SCR CONTROL

UNIT. NO.	INLET SIZE (IN.)	TYPE	COOLING MAX. (CFM)	COOLING MIN. (CFM)	HEATING (CFM)	CAPACITY (MBH)	CAPACITY (KW)	LAT	V/PH	SEE NOTES
1-01	12	VV	1400	280	700	33.3	9.8	95	460/3	
1-02	12	VV	1380	280	690	32.8	9.6	95	460/3	
1-03	12	VV	1380	280	690	32.8	9.6	95	460/3	
1-04	12	VV	1380	280	690	32.8	9.6	95	460/3	
1-05	12	VV	1800	360	900	42.8	12.5	95	460/3	
1-06	12	VV	1800	360	900	42.8	12.5	95	460/3	
1-07	12	VV	1980	400	990	47	13.8	95	460/3	
1-08	12	VV	1980	400	990	47	13.8	95	460/3	
1-09	12	VV	1980	400	990	47	13.8	95	460/3	
1-10	16	VV	2385	480	1195	56.8	16.6	95	460/3	
1-11	6	VV	410	85	205	9.7	2.9	95	277/1	
1-12	7	VV	650	130	325	15.4	4.5	95	460/3	
1-13	6	VV	450	90	225	10.7	3.1	95	277/1	
1-14	5	VV	200	40	100	4.8	1.4	95	277/1	
1-15	6	VV	425	85	250	11.9	3.5	95	277/1	

AIR TERMINAL UNIT SCHEDULE - FAN POWERED

GENERAL NOTES

UNITS ARE VARIABLE AIR VOLUME, FAN POWERED

ELECTRIC REHEAT

DESIGN BASIS - PRICE

UNIT TYPE P = PARALLEL FLOW MODEL FDV

UNIT TYPE S = SERIES FLOW MODEL FDC

ENTERING AIR TEMP. (DEG. F): 55

MAX AIR PRESS. DROP INCL. COIL 0.6" S.P.

MAX NC 25, WITH 10db ROOM ABSORBTION AT 1.5" SP AND MAX. AIR FLOW

FAN TYPE: ECM

UNITS INCLUDE SCR MODULATION FAN EXTERNAL S.P.: 0.5" W.C.

MARK	UNIT SIZE	INLET SIZE (IN.)	PRIMARY AIR MAX (CFM)	PRIMARY AIR MIN (CFM)	HEATING COIL	FAN	NOTES
1-16F	20	6	150	30	5	460/3 P 400 0.5 277/1	ALL

- NOTES:
- ELECTRICAL - PROVIDE DISCONNECT SWITCH WITH UNIT. SINGLE POINT POWER CONNECTION, TRANSFORMER FOR FAN BY UNIT MANUFACTURER.

DUCTWORK INSULATION SCHEDULE

SYSTEM	INSULATION THICKNESS	TYPE	LOCATION	NOTES
SUPPLY AIR DUCT	1.5"	1	CONCEALED & EXPOSED	
RETURN AIR DUCT	-	-	CONCEALED	
EXHAUST AIR DUCT & PLENUMS	-	-	CONCEALED & EXPOSED	
LINED RETURN/TRANSFER AIR DUCT	1"	3	CONCEALED & EXPOSED	
TYPE	BASIS OF DESIGN	APPROVED EQUALS	DESCRIPTION	
1	OWENS-CORNING SOFTR TYPE 75	KNAUF JM CERTAIN TEED	MATERIAL FIBERGLASS DUCT WRAP ON DUCT K = 0.30 @ 75 DEG. F. DENSITY - 0.75 PCF JACKET - FOIL REINFORCED JOINTS - OVERLAPPING STAPLE ALL JOINTS AT 6" CENTERS. FASTENERS - MECHANICAL ON 24" & WIDER DUCT ADHESIVE - NONE TAPE - 3" WIDE	
3	OWENS-CORNING QUIET R ROTARY DUCT LINER	KNAUF JM CERTAIN TEED JOHNS MANVILLE	MATERIAL FIBERGLASS DUCT LINER K = 0.23 @ 75 DEG. F JACKET - NONE JOINTS - BUTT FASTENERS - METAL PINS & CLIPS ON 12" CENTERS ADHESIVE - COMPLIES WITH ASTM C916 TAPE - NONE LEADING EDGES - METAL NOSING	

AIR DEVICE SCHEDULE

GENERAL NOTES

AIR DEVICES BASED ON PRICE.

EQUAL BY TITUS, TUTTLE & BAILEY

STANDARD WHITE BAKED ACRYLIC FINISH UNLESS NOTED OTHERWISE.

MAXIMUM SOUND LEVEL AT NC-25 AT INDICATED AIR FLOW.

DIFFUSERS SHALL BE 4-WAY THROW UNLESS OTHERWISE NOTED OR INDICATED ON DRAWINGS.

BALANCING DAMPER GENERALLY PROVIDED IN DUCT, NOT AT DEVICE.

VERIFY CEILING TYPE AND PROVIDE APPROPRIATE MOUNTING FRAME WHERE REQUIRED.

TAG	DESCRIPTION	MODEL NO.	MATERIAL	ACCESSORIES	NOTES
S1	2'X2' SQUARE PLAQUE DIFFUSER ROUND DUCT CONNECTION	SPD	STEEL	INSULATED BACKPAN (STYLE 31)	
S2	12"X12" SQUARE PLAQUE DIFFUSER ROUND DUCT CONNECTION	SPD	STEEL	INSULATED BACKPAN (STYLE 31)	1
S4	LINEAR SLOT TYPE WITH PLENUM (3) 1" SLOTS 48" LENGTH ROUND DUCT CONNECTION - SIZE PER PLAN	TBD3100	STEEL	EXTERNAL INSULATED PLENUM	
R1	RETURN GRILLE DEVICE SIZE - 24" X 24" 45" HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM	RETURN AIR CANOPY	
R2	RETURN GRILLE DEVICE SIZE - 24" X 12" 45" HORIZONTAL BLADES 1/2" SPACING BLADES PARALLEL TO LONG DIMENSION	635	ALUMINUM	RETURN AIR CANOPY	
E2	RETURN GRILLE DEVICE SIZE - 24" X 12" 45" HORIZONTAL BLADES 1/2" SPACING BLADES PARALLEL TO LONG DIMENSION	635	ALUMINUM		
E3	EXHAUST GRILLE DEVICE SIZE - 12" X 12" 45" HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM		1

- NOTES:
- DEVICE TO BE SURFACE MOUNTED IN CENTER OF ACOUSTIC CEILING PAD FOR LAY-IN APPLICATION.

PIPING SYSTEMS - HVAC

PIPING SYSTEM		TYPE	
COIL CONDENSATE DRAINAGE		C3, P1	
TYPE	DESCRIPTION	TYPE	DESCRIPTION
C3	SOLDERED COPPER TYPE "DWV" HARD COPPER ASTM B88 CAST DWV COPPER FITTINGS 95-5 SOLDER	P1	PVC SCHEDULE 40 PVC ASTM D2865 DWV FITTINGS, ASTM D3311 GLUED JOINTS

EQUIPMENT NOTES - NON-POWERED

DS-1 DUCT SILENCER - RETURN AIR BASIS OF DESIGN - VIBRO-ACOUSTICS #RD-MHV-F4 AIRFLOW - 13,300 CFM MAX AIR PRESSURE DROP - 0.3" W.C. CASING - 22 GA. GALVANIZED MEDIA FILL - ACOUSTIC GRADE GLASS FIBER DIMENSIONS- 108" L/ 172" W/ 24" H REFER TO SPECIFICATION 23 3330 FOR SOUND DISSIPATION CHARACTERISTICS

DUCTWORK SYSTEMS SCHEDULE

DUCTWORK SYSTEMS	LOCATION	MATERIAL	SMACNA CLASS.		NOTES
			SP. CONSTR.	SEAL CLASS	
RETURN AIR	CONCEALED	G1	-2"	C	
EXHAUST AIR	CONCEALED	G1	-2"	C	
EXHAUST AIR	EXPOSED	G2	-2"	C	1
AIR TRANSFER	ALL	G1	-1"	NOT REQD.	
SUPPLY AIR - VAV UPSTREAM	CONCEALED	G1	+4"	A	
SUPPLY AIR - VAV DOWNSTREAM	CONCEALED	G1	+1"	C	
FLEXIBLE DUCTWORK - SUPPLY	CONCEALED	C1	+10" -5"	N.A.	
FLEXIBLE DUCTWORK - RET./EXH./TRANSFER	CONCEALED	C2	+10" -5"	N.A.	
WATER HEATER COMBUSTION AIR	ALL	P3	-2"	A	
WATER HEATER EXHAUST FLUE	ALL	P3	+4"	A	

DUCTWORK MATERIALS SCHEDULE

TYPE	MATERIAL	DESCRIPTION
B1	BLACK STEEL	BLACK STEEL SHEET, MIN. 16 GA. - ASTM A1011-09A. CONTINUOUSLY WELDED.
C1	CHLORINATED POLYETHYLENE	BLACK INNER FABRIC WITH GALVANIZED STEEL HELIX REINFORCING, R = 6.0 (MIN.) FIBERGLASS INSULATION, REINFORCED METALIZED VAPOR BARRIER, 0.05 PERM. UL 181 CLASS 1 DUCT, MEET NFPA 90A & 90B, 25/50 FLAME/SMOKE SPREAD.
C2	CHLORINATED POLYETHYLENE	BLACK INNER FABRIC WITH GALVANIZED STEEL HELIX REINFORCING, R = 4.2 (MIN.) FIBERGLASS INSULATION, REINFORCED METALIZED VAPOR BARRIER, 0.05 PERM. UL 181, CLASS 1 DUCT, MEET NFPA 90A & 90B, 25/50 FLAME/SMOKE SPREAD.
G1	GALVANIZED STEEL	24 GA. MIN., HOT DIPPED, GALVANIZED BOTH SIDES, G90 PER ASTM A653.
G2	GALVANNEALED STEEL	24 GA. MIN., HOT DIPPED, HEAT TREATED GALVANNEALED BOTH SIDES PER ASTM A653, PAINT UNIFORM GRAY MATTE APPEARANCE. A40 PER.
P3	POLYPROPYLENE	SCHEDULE 40 POLYPROPYLENE PIPE AND FITTINGS. UL 1738 CERTIFIED.

- NOTES:
- DUCTWORK SYSTEMS ARE TO MATCH BASE MATERIALS FOR CONCEALED AND EXPOSED INSTALLATIONS.
 - PROVIDE PLAQUARD ON ALL ACCESS DOORS STATING "ACCESS PANEL. DO NOT OBSTRUCT."

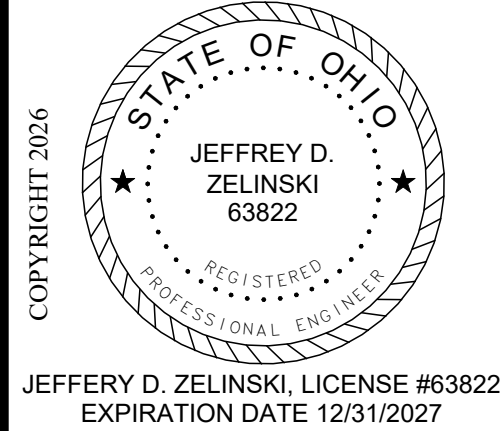
PACKAGED ROOFTOP UNITS

UNIT TAG	RTU-1	
BASIS OF DESIGN	AAON RMA-050	
SERVICE	MEDICAL ACADEMY WING	
DESCRIPTION	PACKAGED DX ROOFTOP WITH NATURAL GAS HEATING UNIT	
MOUNTING	ROOF CURB	
RETURN AIR FAN(S)		
AIRFLOW (CFM)	13,300	
ESP. (" W.G.)	0.75	
FAN TYPE	DIRECT DRIVE AXIAL	
QTY./MOTOR HP PER FAN	2 @ 1.36 HP EA.	
VFD/ECM	VFD	(NOTE 1)
SUPPLY AIR FAN(S)		
TOTAL AIRFLOW (CFM)	16,000	
ESP. (" W.G.)	2.0	
FEI	0.95	
FAN TYPE	DIRECT DRIVE BC PLENUM	
QTY./MOTOR HP PER FAN	2 @ 8.28 HP EA.	
VFD/ECM	VFD	(NOTE 1)
FILTER		
PRE-FILTER	2" MERV 8	
FINAL FILTER	4" MERV 13	
DX COOLING - BASED ON OUTDOOR AT 93 DB / 75 WB		
NO. OF CIRCUITS (MIN.)	2	
NO. OF COIL ROWS (MIN.)	6	
TOTAL (MBH)	560	
SENSIBLE (MBH)	405	
OUTDOOR AIR (DB/WB)	93/75	
ENTER. AIR (DB/WB)	78/64.5	
SUPPLY AIR (DB/WB)	51/50	
EER	11.76	
IEER	17.5	
GAS HEATING - REQ. NATURAL GAS INPUT PRESSURE: 7 W.C. MIN./14" W.C. MAX.		
GAS INPUT (MBH)	600	
GAS OUTPUT (MBH)	486	
MIN. FURNACE EFFICIENCY	81%	
MODULATION	10-100%	
OUTDOOR AIR (DB)	0	
ENTER. AIR (DB)	44	
SUPPLY AIR (DB/WB)	102	
ELECTRIC		
MCA	171	
MOCP	175	
VOLTAGE/HZ/PHASE	480/60/3	
SCCR (AIC)	65,000	
CONNECTION POINT(S)	SINGLE	
PHYSICAL UNIT DATA & CABINET		
LENGTH (IN.)	209	
WIDTH (IN.)	100	
HEIGHT (IN.) - NOT INCLUDING CURB	101	
MAX UNIT OP. WEIGHT (LBS)	7,500	(NOTE 2)
REFRIGERATION		
COMPRESSOR QTY. (MIN.)	4	(NOTE 3)
NO. OF CIRCUITS QTY. (MIN.)	2	
UNIT OPTIONS		
MINIMUM OUTDOOR AIR RATE (CFM)	2,700	
VARIABLE AIR VOLUME	•	
ECONOMIZER HOOD	•	
RELIEF AIR DAMPERS FOR FULL ECON.	•	
ROOF CURB	24"	

- NOTES:
- UNIT MANUFACTURE SHALL PROVIDE A SINGLE VFD TO CONTROL SPEED OF BOTH FANS. UNIT SHALL HAVE A TOTAL OF 2 VFD'S.
 - STRUCTURAL DESIGN IS BASED ON THE PHYSICAL DATA OF THE BASIS OF DESIGN UNIT. SEE SPECIFICATION FOR APPROVED VENDORS. ANY STRUCTURAL CHANGES REQUIRED DUE TO THE USE OF THE NON-BASIS OF DESIGN UNIT AND COSTS THERE-OF, INCLUDING STRUCTURAL ENGINEER FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR EQUIPMENT VENDOR.
 - REFRIGERANT CIRCUIT #1 SHALL CONTAIN TWO DIGITAL SCROLL COMPRESSORS. REFRIGERANT CIRUIT #2 SHALL CONTAIN TWO 2-SPEED SCROLL COMPRESSORS.

UNIT SELECTION

THE PROJECT IS SCHEDULED FOR COMPLETION BY AUGUST 2027. THE ROOFTOP UNIT SELECTED FOR THE PROJECT MUST BE ABLE TO MEET THE PROJECT TIMELINE AND PERFORMANCE CRITERIA IN THE SPECIFICATIONS WITH AMPLE TIME FOR INSTALLATION, START UP AND COMMISSIONING PRIOR TO THE PROJECT SUBSTANTIAL COMPLETION DATE. THE CONTRACTOR SHALL TAKE UNIT LEAD TIME INTO CONSIDERATION WHEN PREPARING HISHER BID. THE CONTRACTORS BID SHALL INCLUDE A UNIT THAT MEETS BOTH THE PERFORMANCE AND SPECIFICATIONS, NOTE THIS MAY NOT BE THE LOWEST COST UNIT.



REVISIONS :

PRINTINGS :	Date
09/15/2025	
Build / Permit Set	

CONSULTANTS

WARREN COUNTY CAREER CENTER

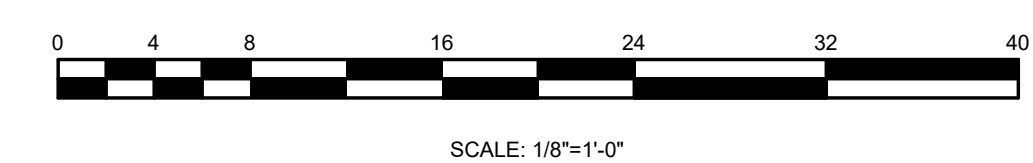
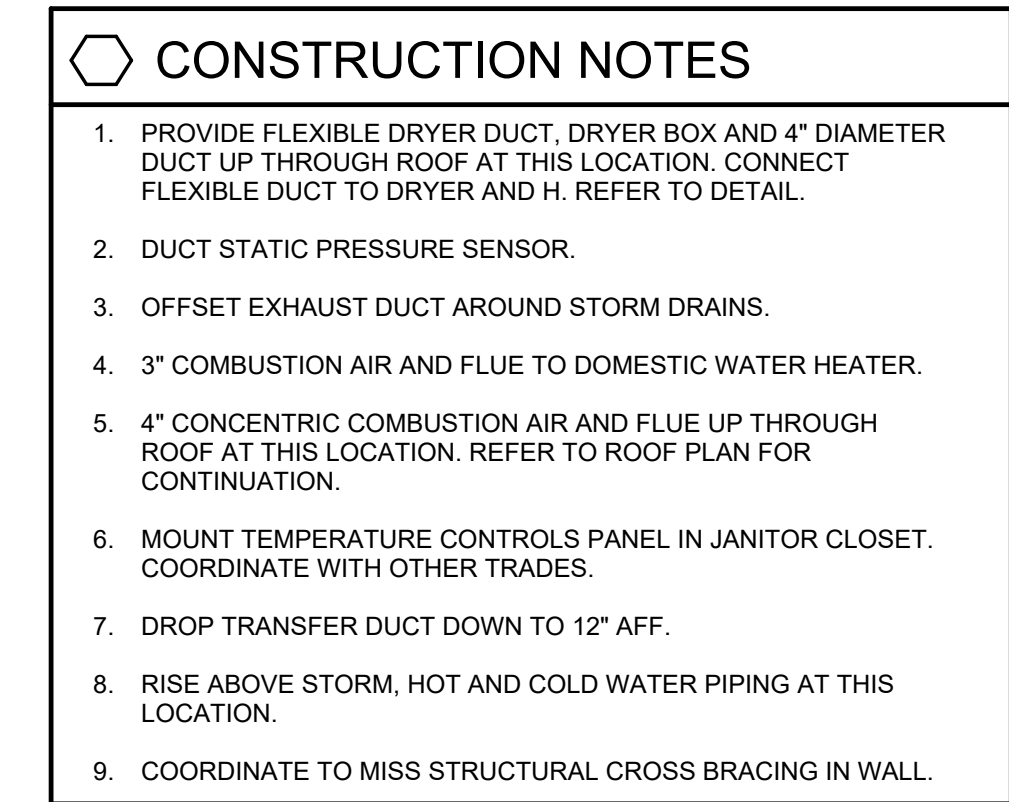
MEDICAL ACADEMY

PROJECT NO: PROJECT #263306.00 CHECKED BY: JZJ DRAWN BY: DRH DATE: 09/15/2025

LEVIN PORTER ARCHITECTS 3011 DELUMARK DRIVE MIMMSBURG, OHIO 45342 www.levin-porter.com



EQUIPMENT & MATERIAL SCHEDULES H0.2



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**WARREN COUNTY CAREER
CENTER
MEDICAL ACADEMY**
3525 OH-48, Lebanon, OH 45036

LEVIN PORTER
ARCHITECTS

30.11 NEUMARK DRIVE
MARIETTA, OHIO 45342

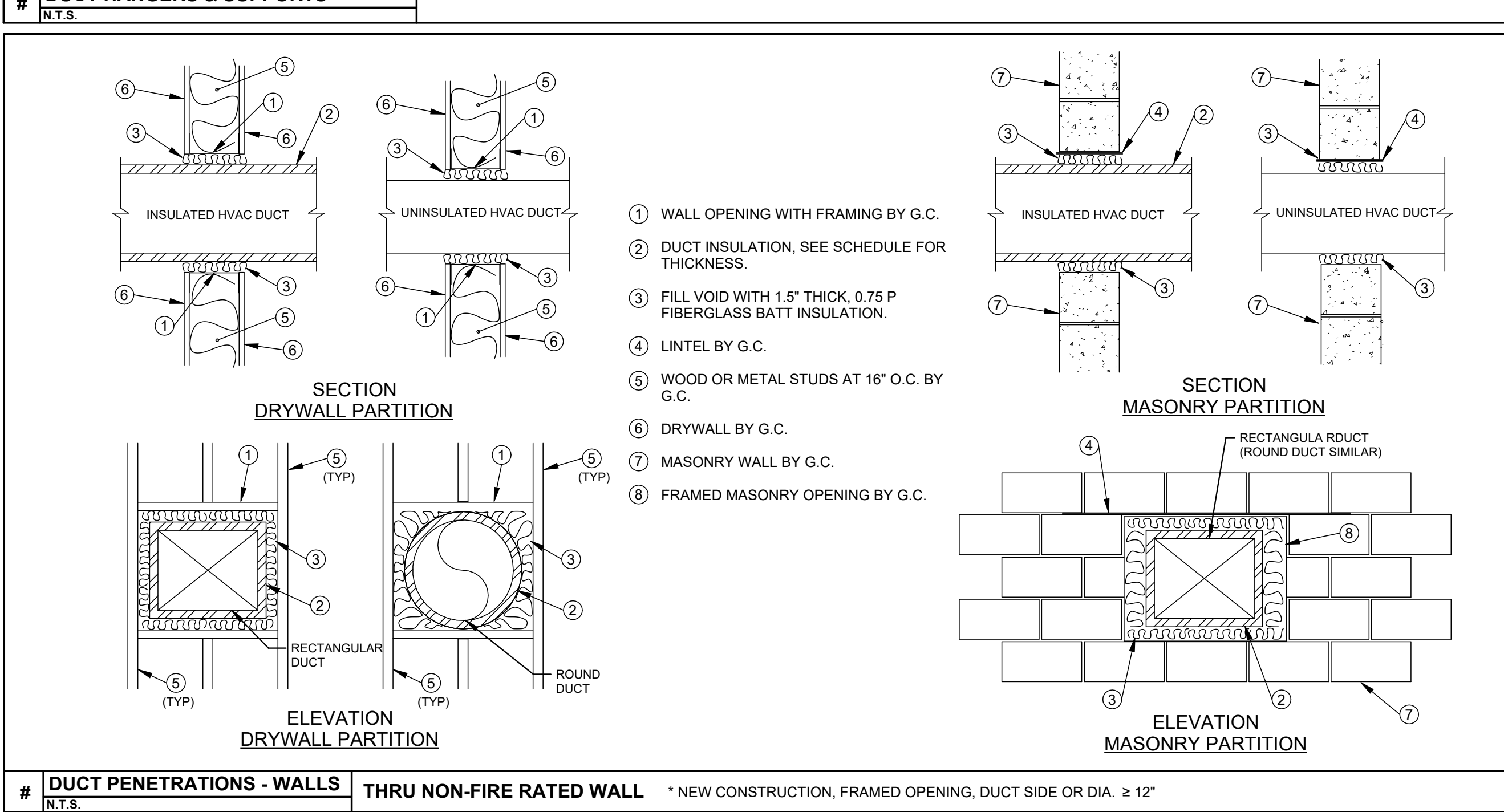
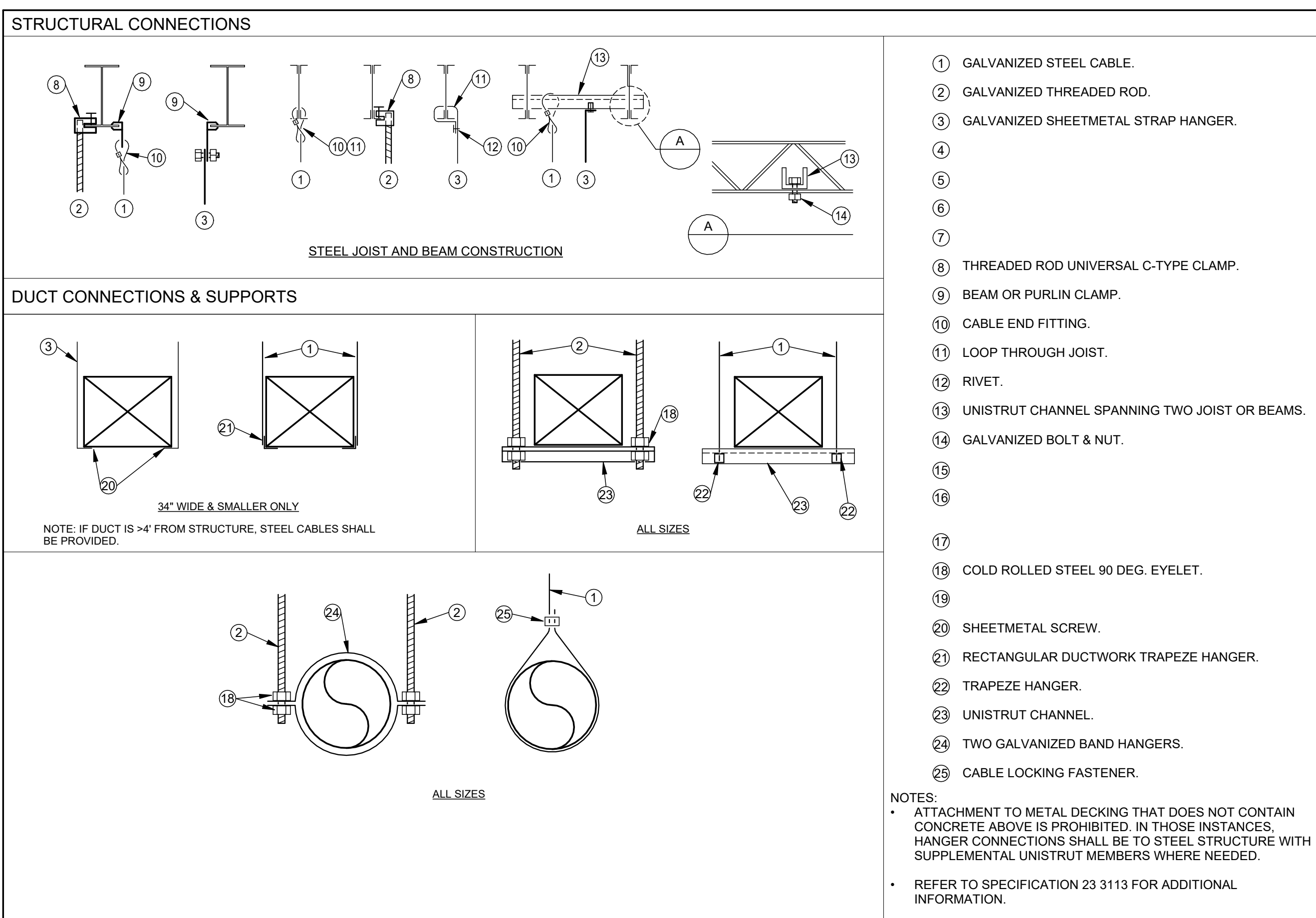
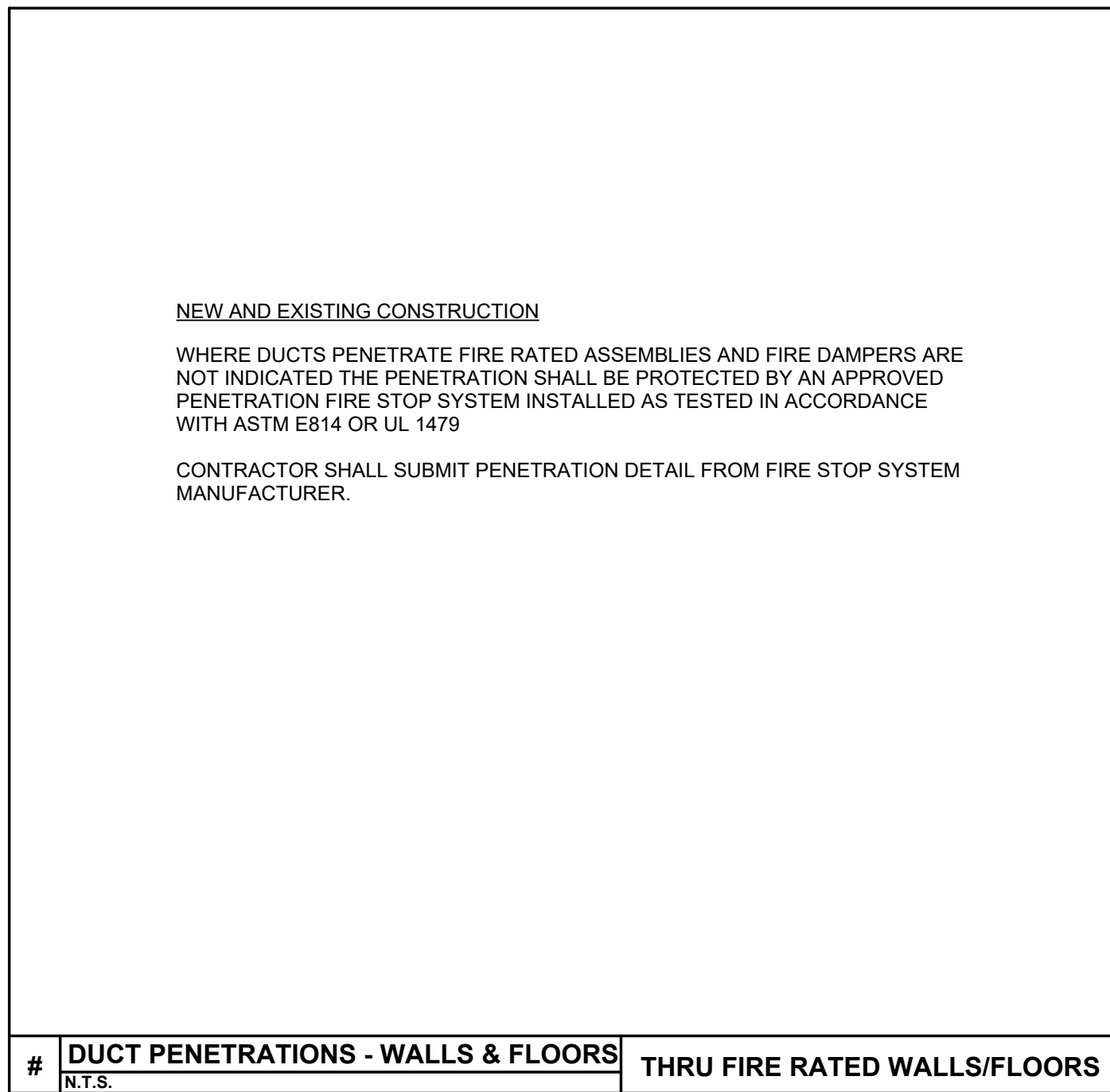
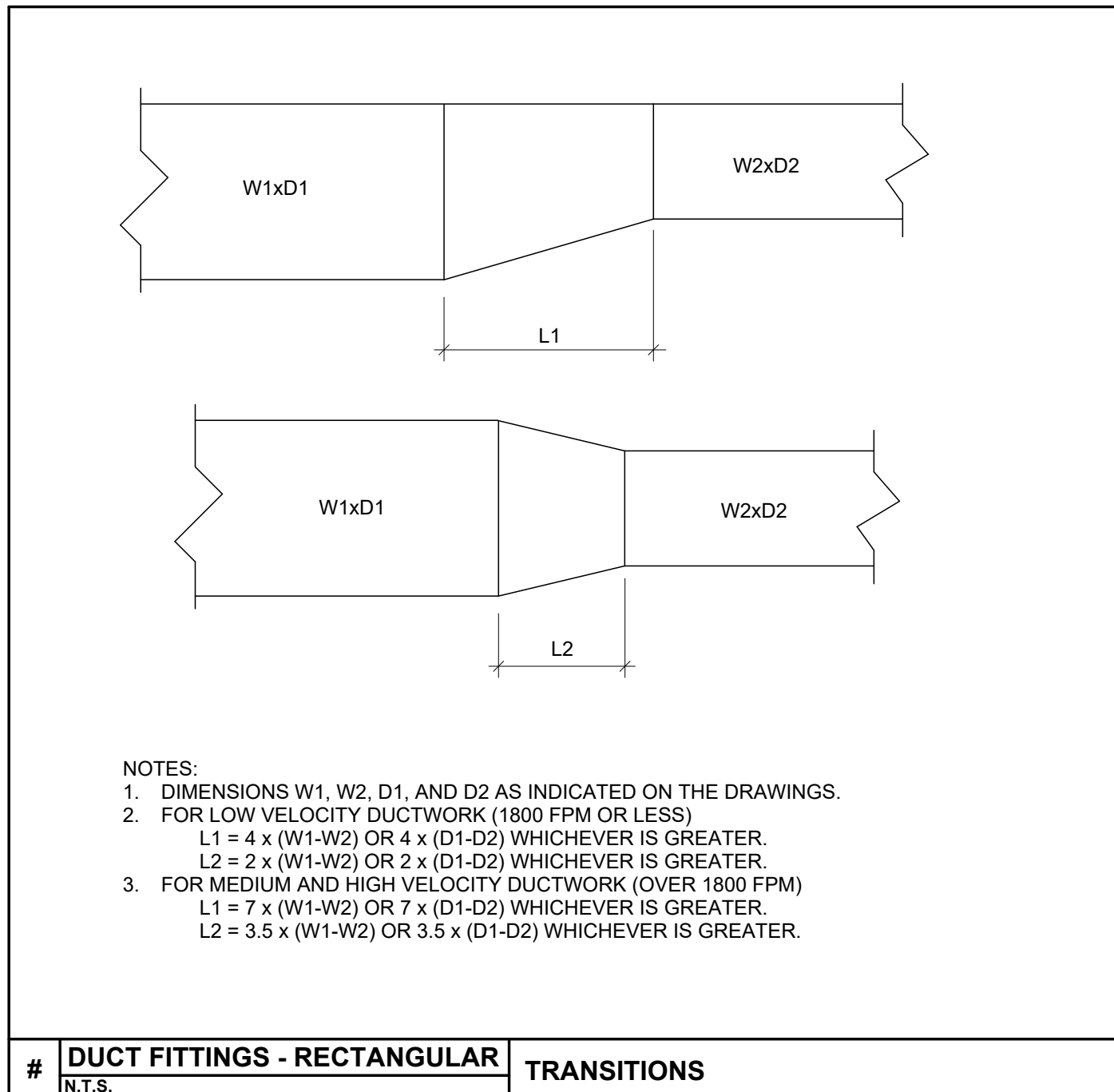
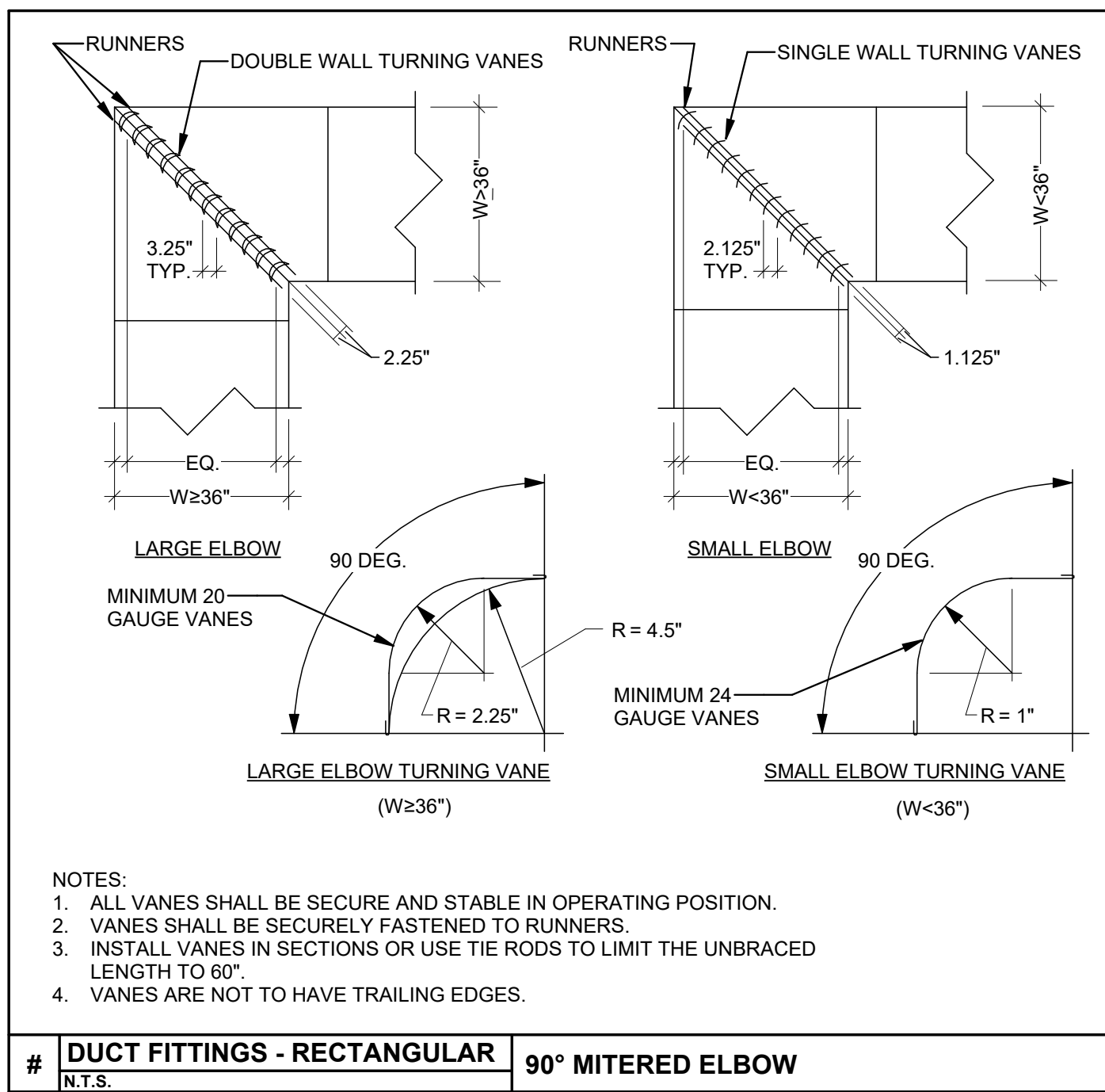
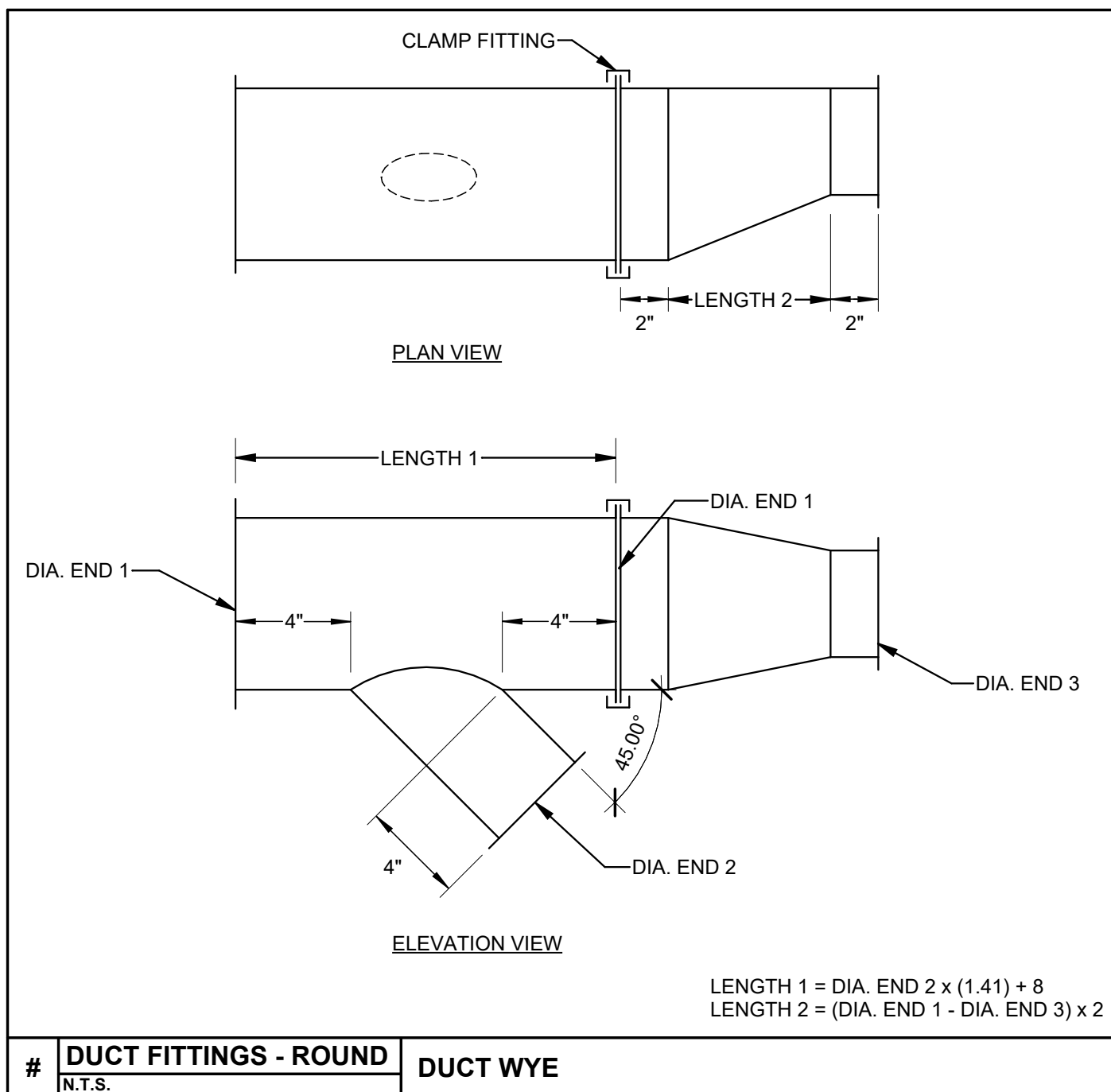
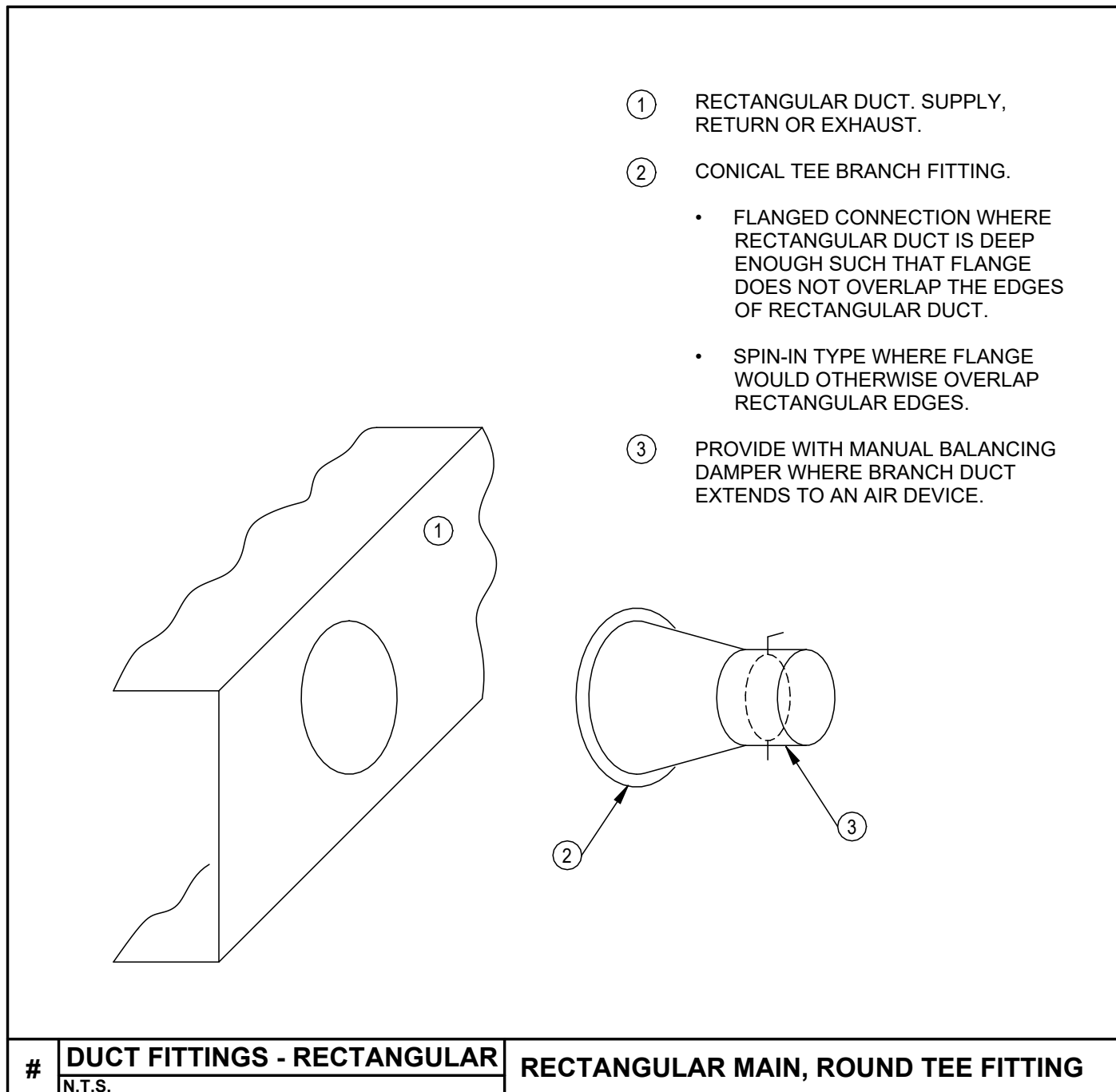
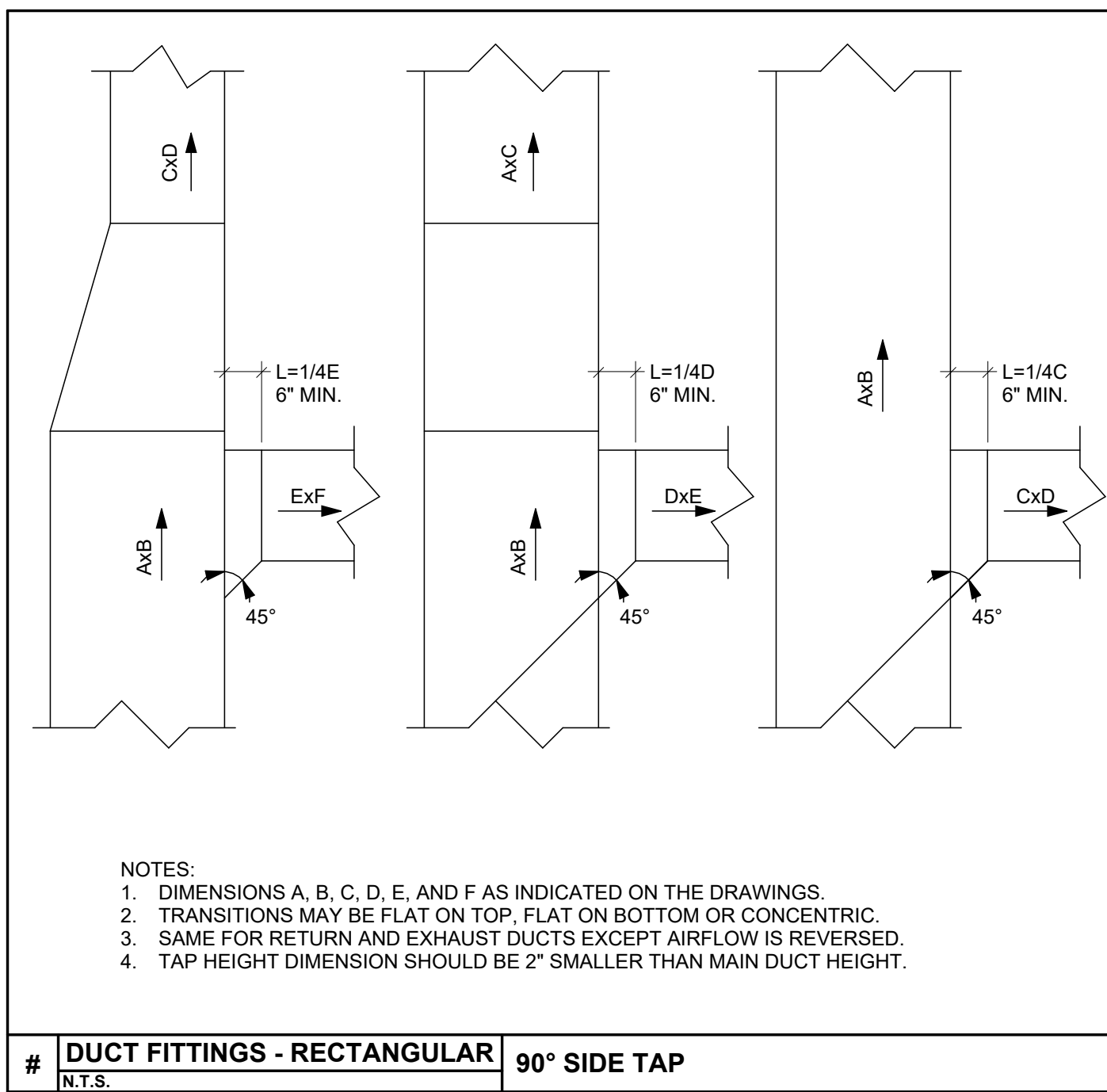
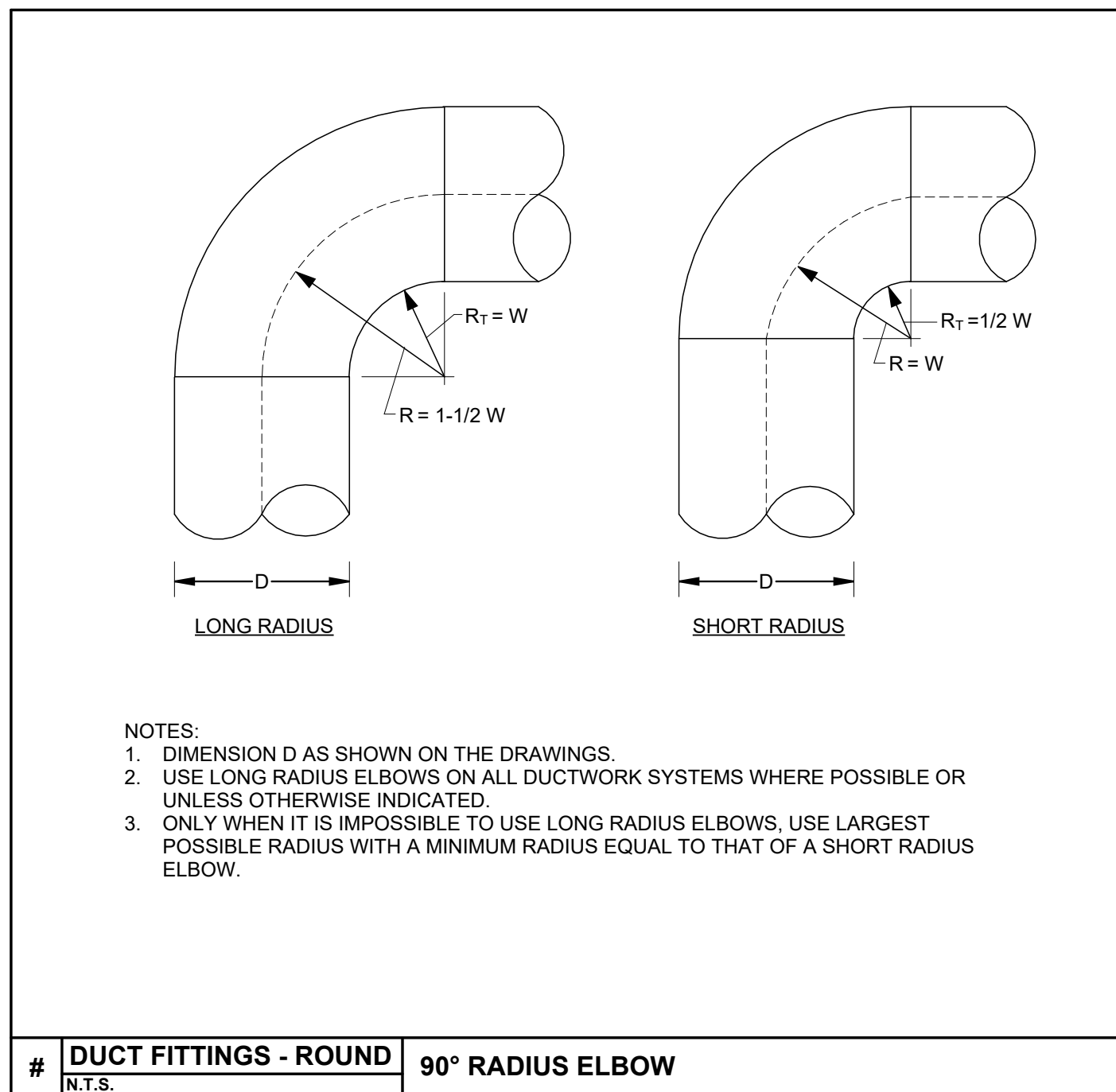
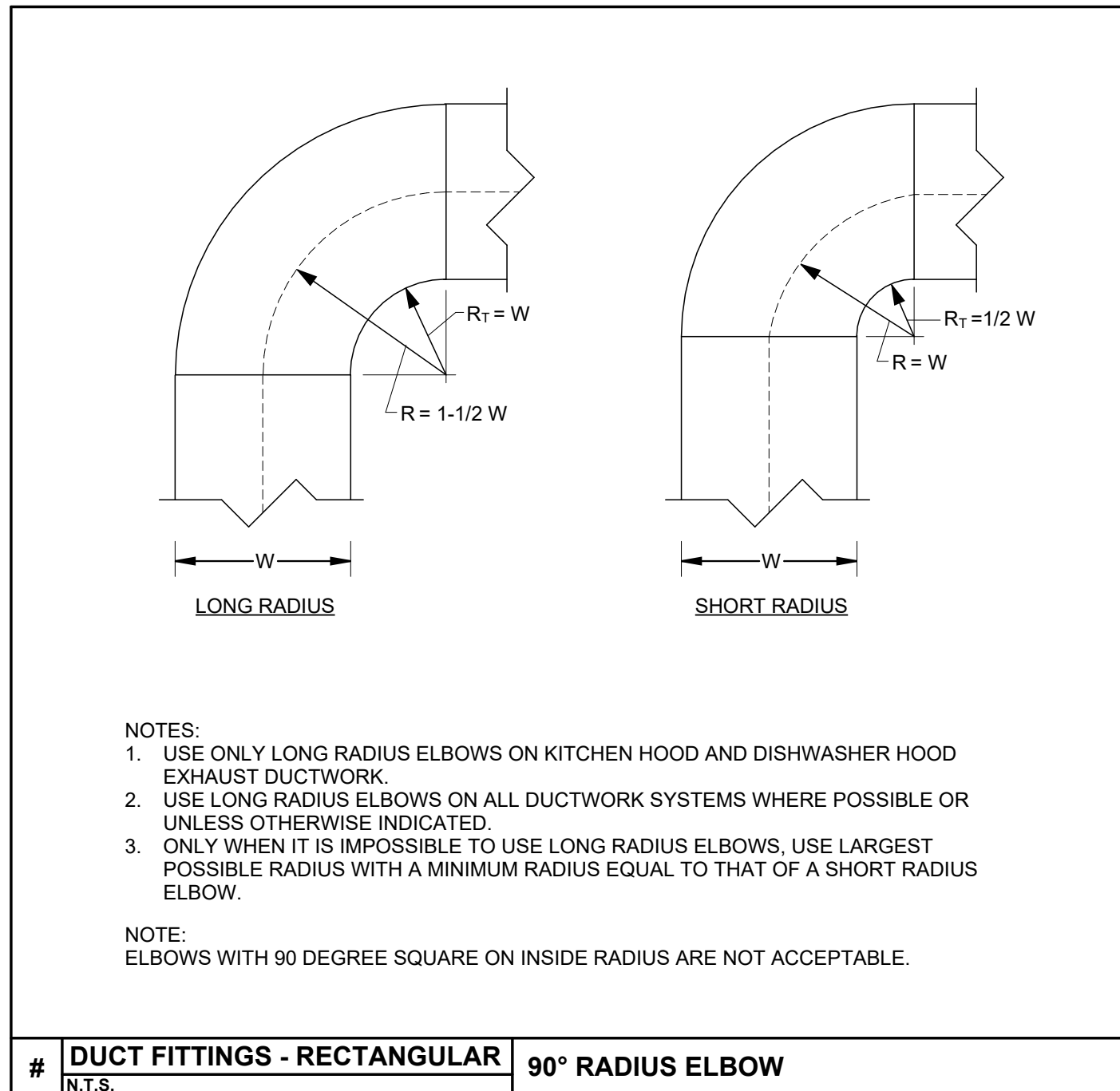
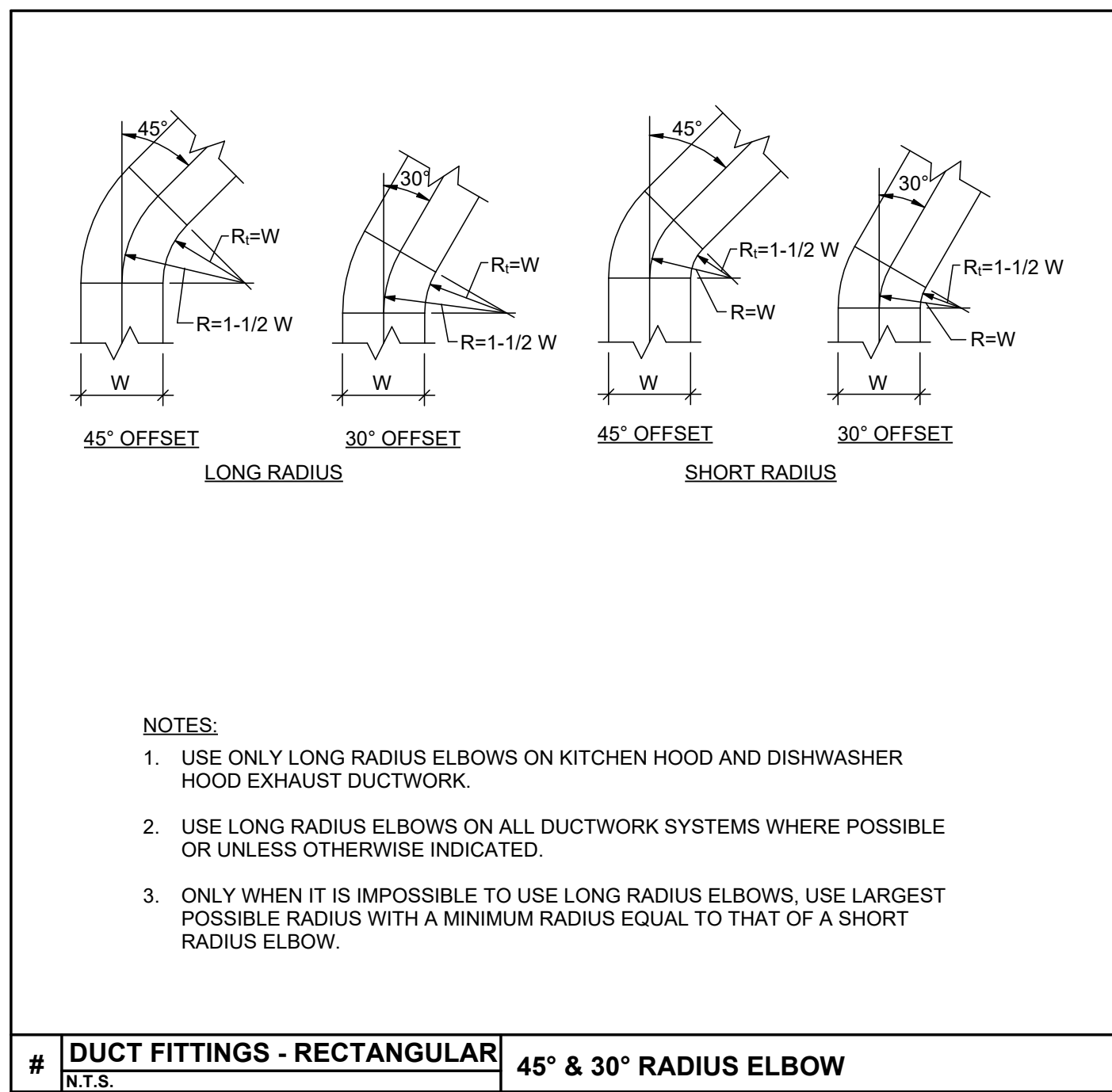
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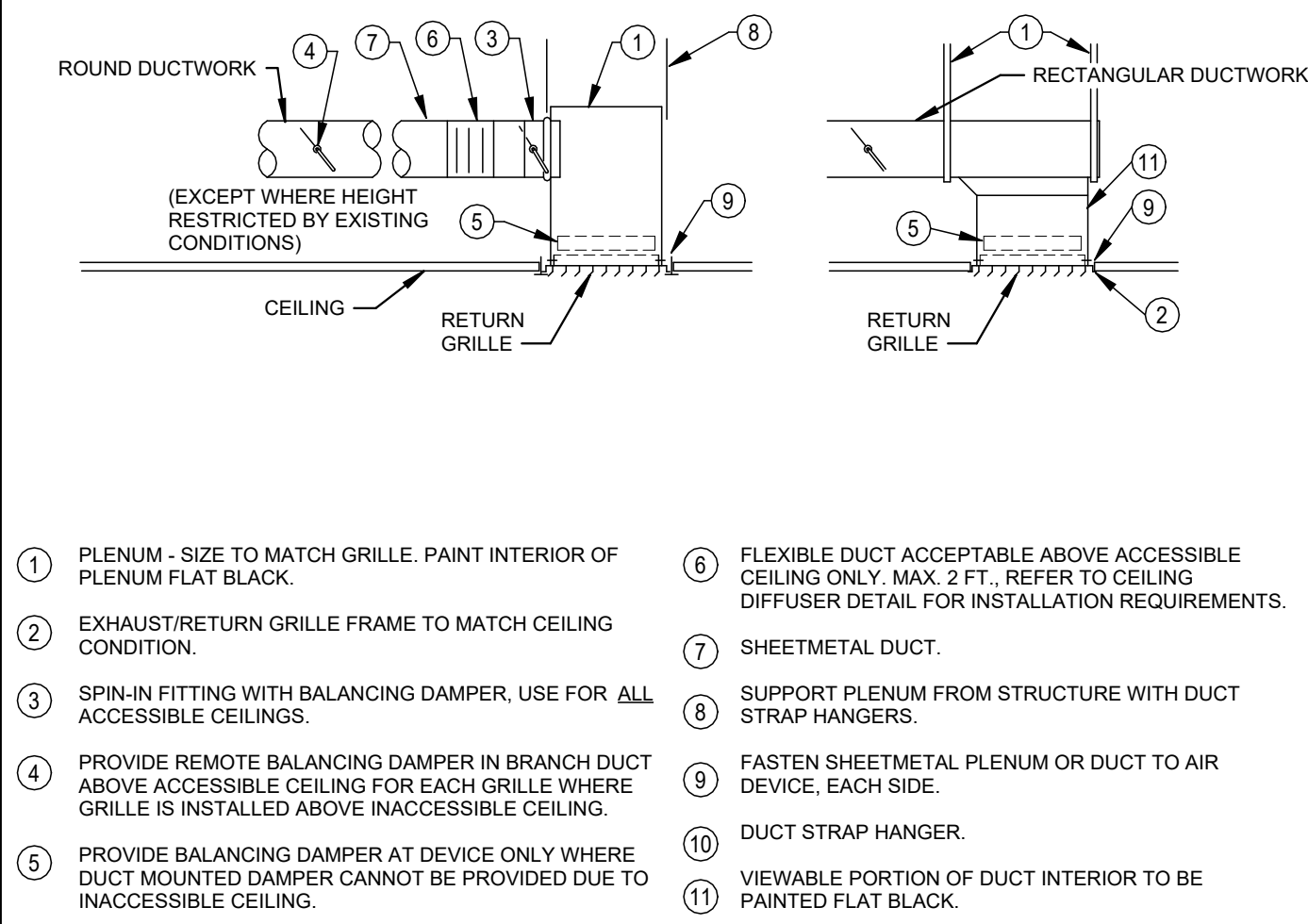
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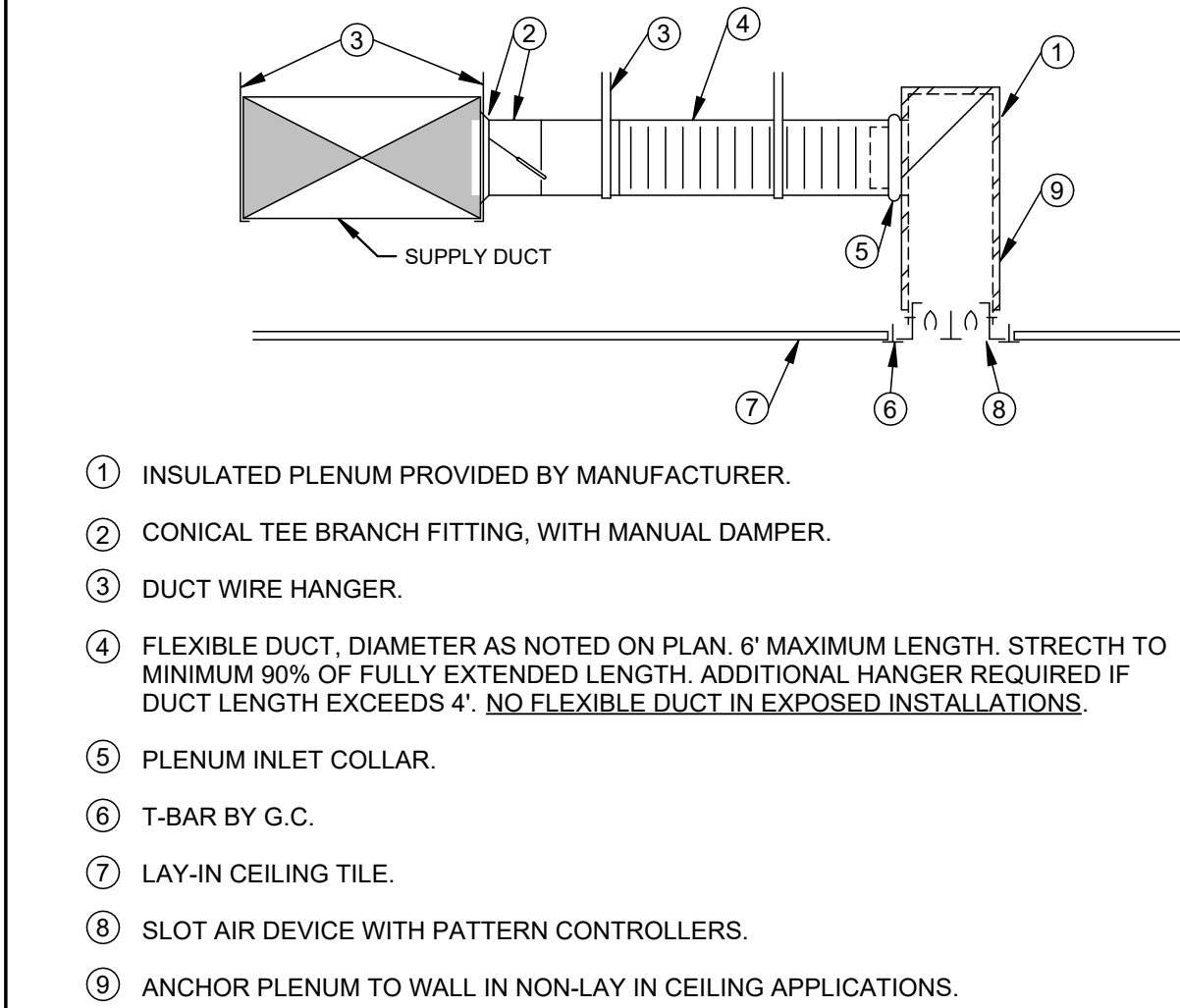
ROOF NEW WORK PLAN

H2.2



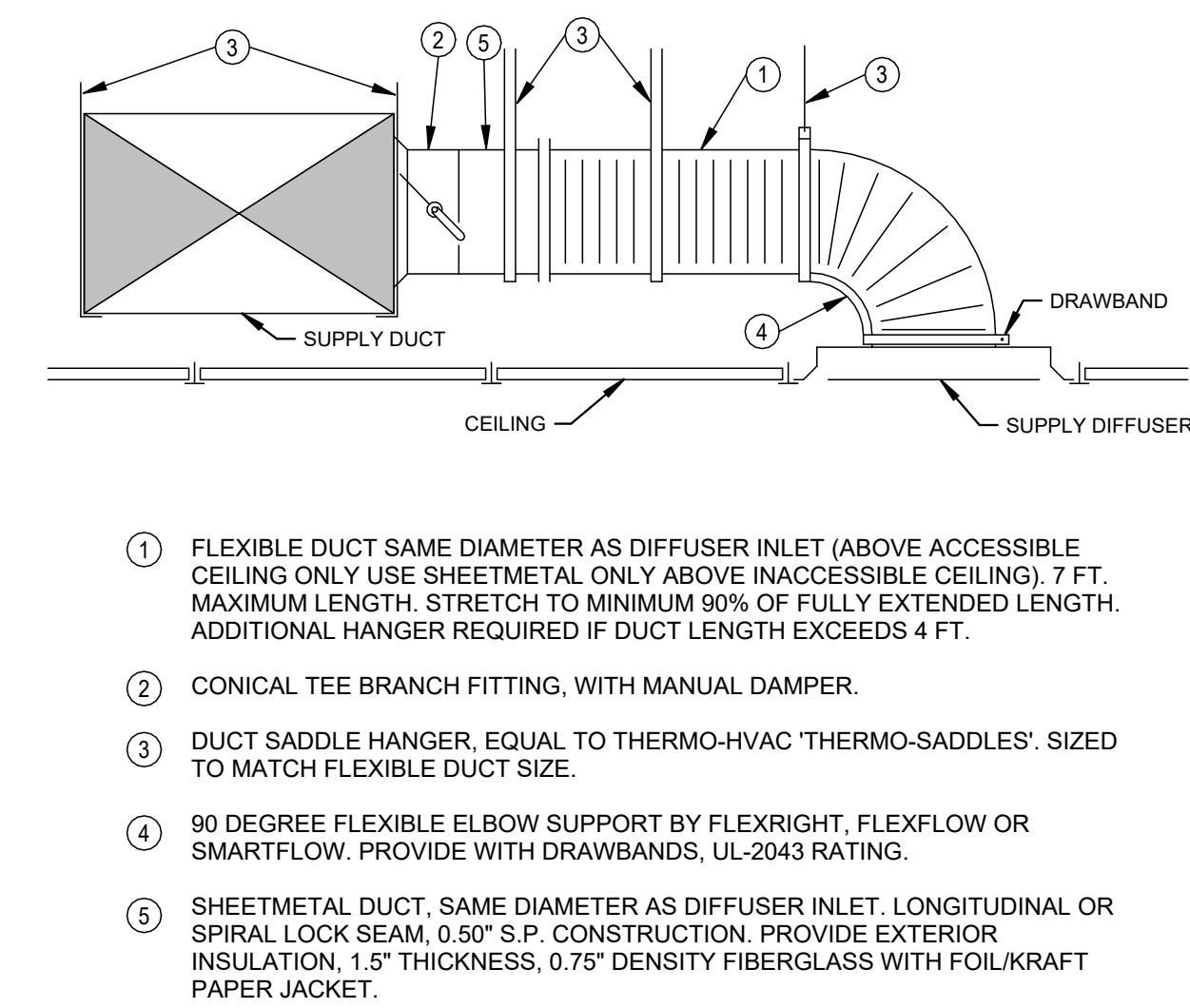


EXHAUST/RETURN GRILLE - DUCTED
N.T.S.



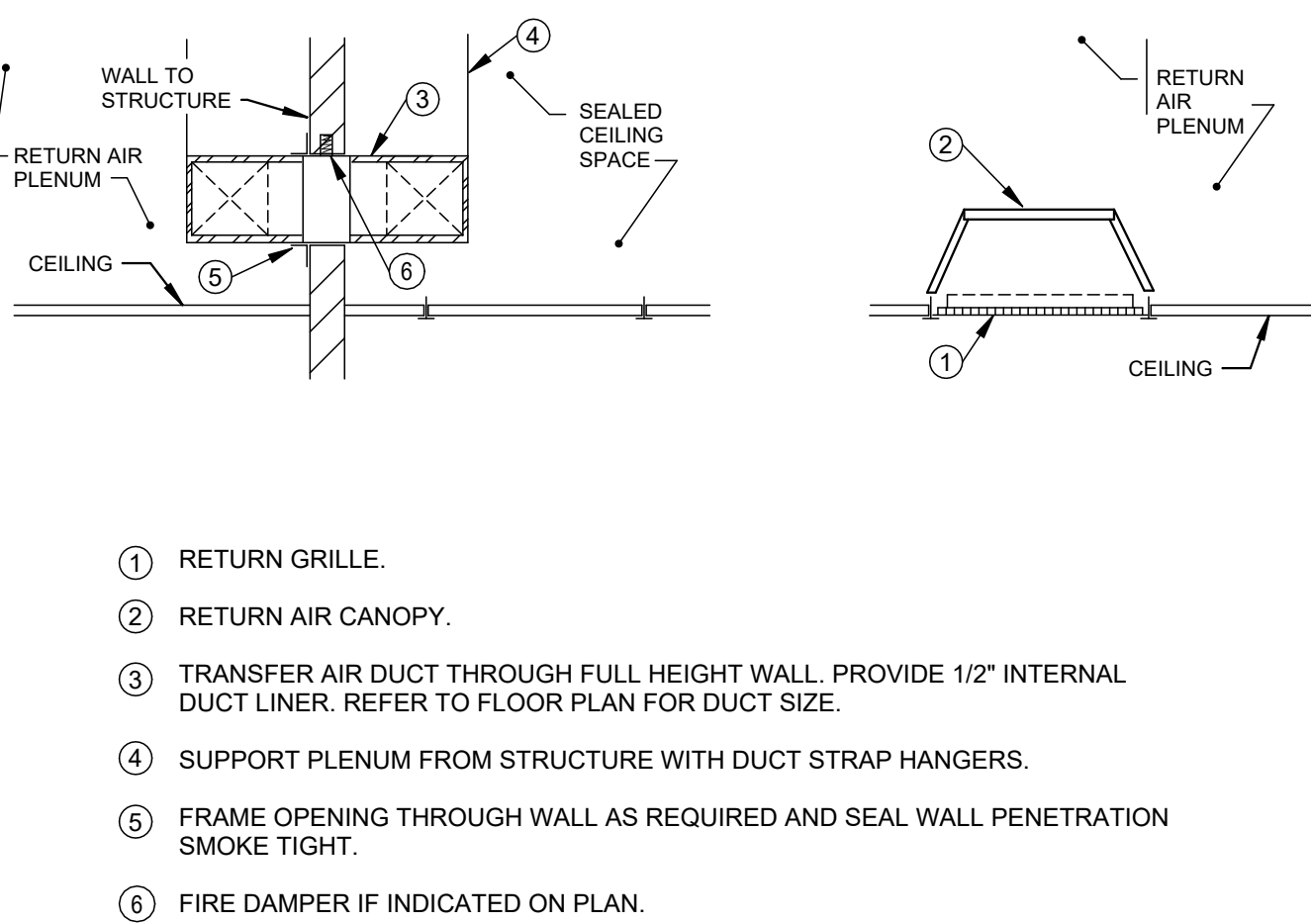
SUPPLY AIR DEVICE
N.T.S.

SLOT DIFFUSER, LAY-IN CEILING



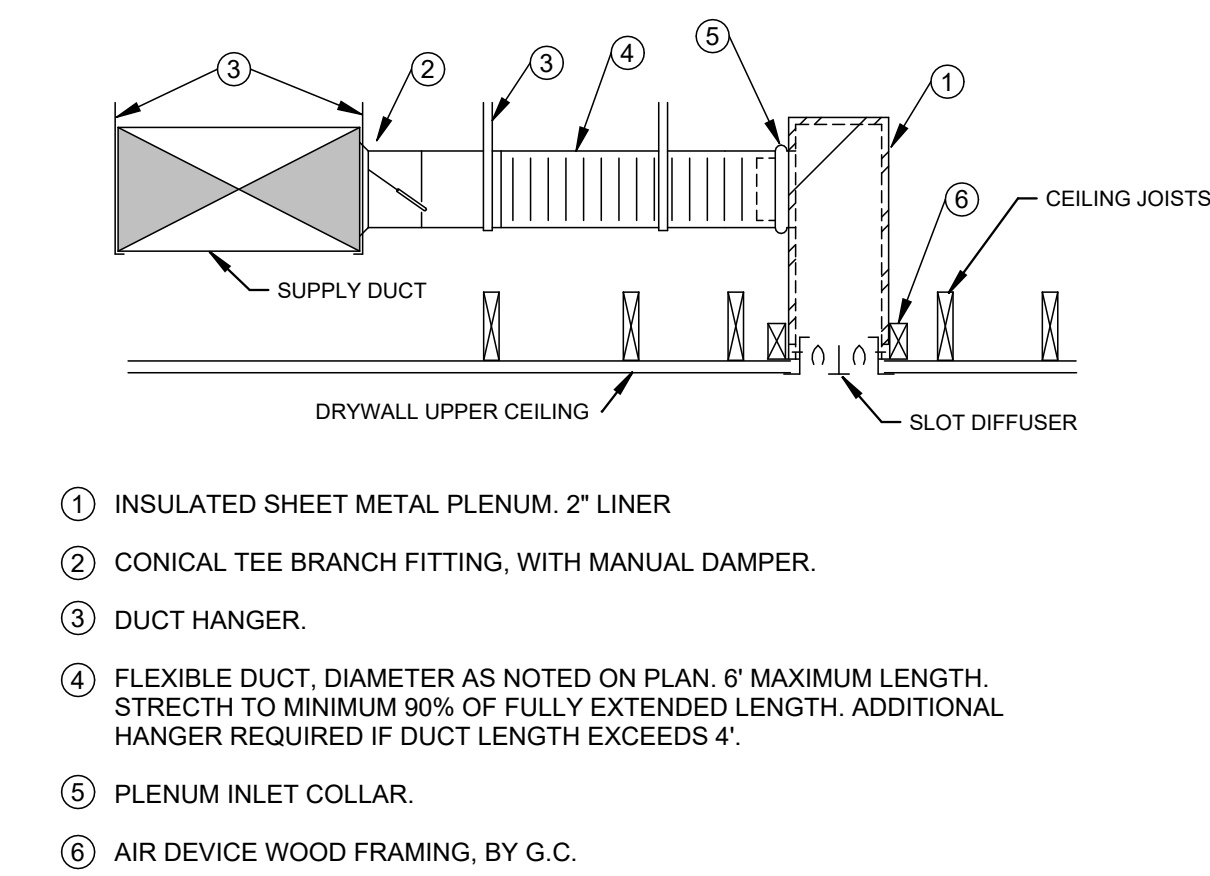
3 SUPPLY AIR DEVICE
N.T.S.

CEILING DIFFUSER



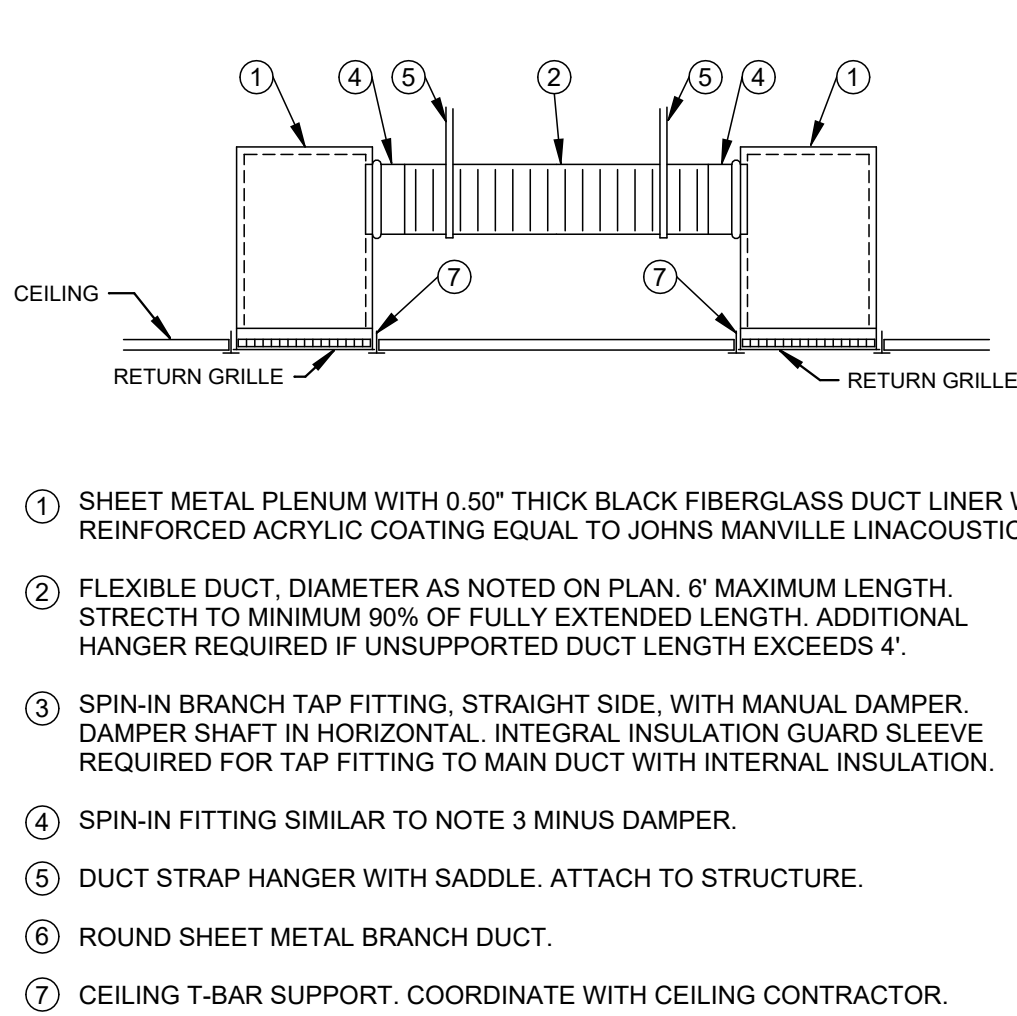
TRANSFER AIR GRILLES
N.T.S.

RETURN AIR CANOPY PLENUM



SUPPLY AIR DEVICE
N.T.S.

SLOT DIFFUSER, DRYWALL CEILING



TRANSFER AIR GRILLES
N.T.S.

DUCTED

STATE OF OHIO

JEFFREY D. ZELINSKI

63822

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EXPIRATION DATE 12/31/2027

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WARREN COUNTY CAREER CENTER MEDICAL ACADEMY

3525 OH-48, Lebanon, OH 45036

PROJECT NO: #263306.00

CHECKED BY: JDZ

DRAWN BY: DRH

DATE: 09/15/2026

LEVIN PORTER ARCHITECTS

3011 DELUMARK DRIVE

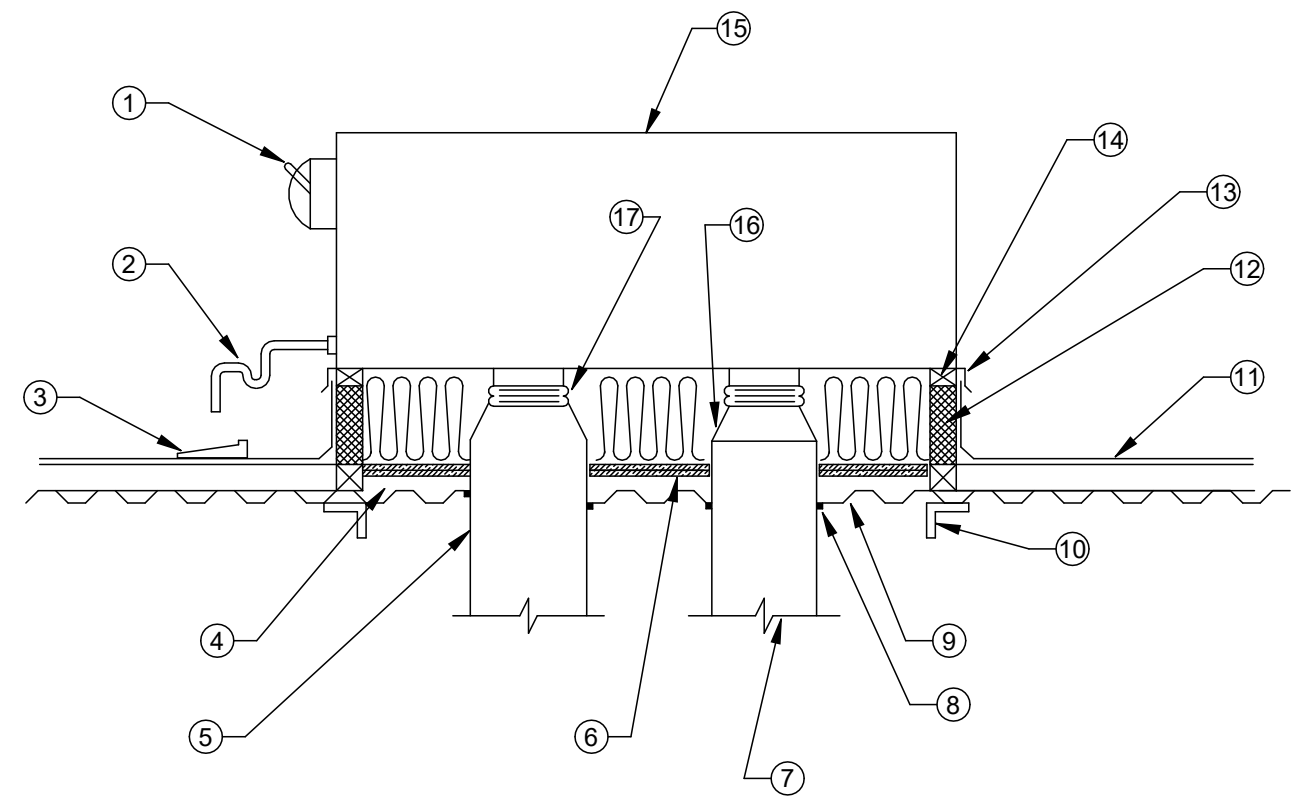
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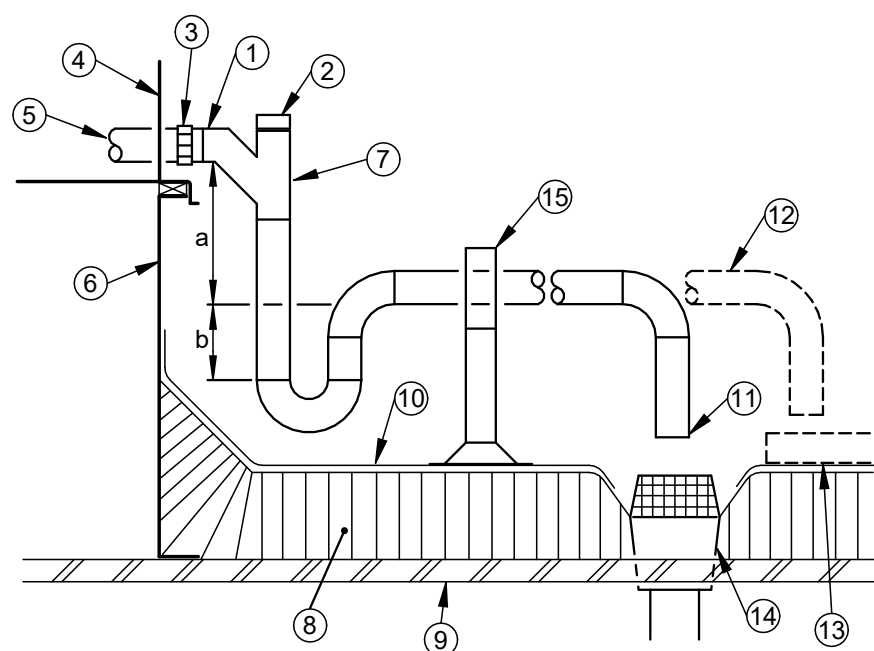
DETAILS - AIR DEVICES

H3.2



- ELECTRICAL DISCONNECT W/ GFI RECEPTACLE SUPPLIED BY UNIT MANUFACTURER. POWER CONN. BY E.C.
- CONDENSATE DRAIN, REFER TO DETAIL
- PROVIDE CONCRETE SPLASH BLOCK ON NEOPRENE PAD UNDER CONDENSATE DRAIN
- FILL ALL VOIDS BETWEEN ROOF DECK & BOTTOM OF UNIT WITH UNFACED BATT INSULATION
- SUPPLY DUCT, REFER TO PLANS FOR SIZE
- TWO LAYERS OF MASS LOADED LIMP BARRIER, EQUAL TO KINETICS NOISE CONTROL #KNM-200B.
- RETURN DUCT, REFER TO PLANS FOR SIZE
- SEAL AROUND DUCT PENETRATIONS, TYP.
- ROOF OPENINGS SHALL BE NO LARGER THAN REQUIRED FOR DUCT PENETRATIONS.
- STRUCTURAL SUPPORT BY OTHERS, TYP.
- FLASHING, CANT STRIPS (IF REQUIRED), ROOFING MATERIAL & ROOF CONSTRUCTION BY ROOFING CONTRACTOR
- 24" HIGH INSULATED ROOF CURB PROVIDED BY THE H.C. SEE DETAIL
- COUNTER FLASHING BY H.C.
- NAILING STRIP
- ROOFTOP UNIT - REFER TO PLANS FOR CAPACITIES
- DUCT TRANSITION AS REQUIRED, TYP.
- FLEXIBLE DUCT CONNECTION, TYP.

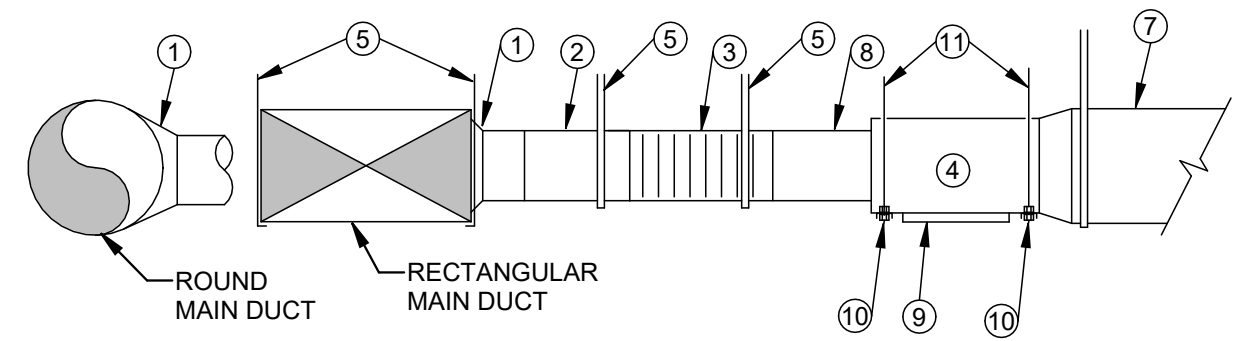
1 ROOFTOP UNIT
N.T.S. TYPICAL MOUNTING DETAIL



CALCULATIONS:
a = SUPPLY FAN T.S.P. + 1"
b = a / 2
- VERIFY FAN T.S.P. WITH UNIT MANUFACTURER.

- DRAIN PIPE, SAME SIZE AS UNIT OUTLET.
- CLEANOUT PLUG.
- UNION.
- SIDE OF ROOFTOP UNIT.
- FROM DRAIN PAN.
- 14" HIGH ROOF CURB. SEE DETAIL.
- DRAINAGE WYE FITTING.
- ROOF INSULATION.
- ROOF DECK.
- ROOFING MEMBRANE.
- OPEN DRAIN - 1" AIR GAP.
- ALTERNATE ROUTING OF DRAIN.
- 12"x12"x1" THICK CONCRETE SPLASH BLOCK. PLACE ON TOP OF ADDITIONAL PIECE OF ROOFING MEMBRANE.
- ROOF DRAIN.
- ADJUSTABLE PIPE SUPPORT. ERICO CADDY PYRAMID EZ OR EQUAL. SET SUPPORT ON MEMBRANE.

2 ROOFTOP UNIT
N.T.S. COOLING COIL CONDENSATE PIPING



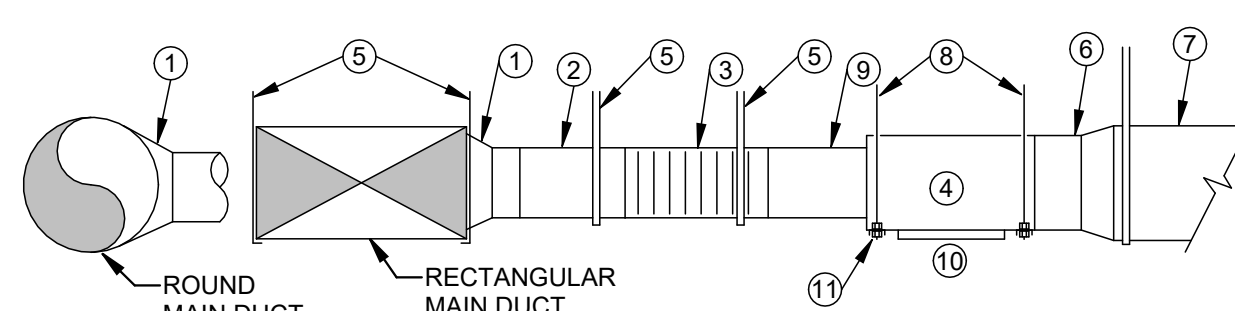
- CONICAL TEE BRANCH FITTING.
- ROUND SHEET METAL BRANCH DUCT, LENGTH AS REQUIRED. INSULATED.
- INSULATED FLEXIBLE DUCT, 4" MAXIMUM LENGTH. STRETCH TO MINIMUM 90% OF FULLY EXTENDED LENGTH.
- FAN POWERED VAV AIRFLOW CONTROL UNIT.
- DUCT HANGER.
- TRANSITION.
- LOW PRESSURE SUPPLY DUCT.
- 24" LONG SHEETMETAL AT BOX INLET - REDUCE LENGTH ONLY WHERE REQUIRED BY FIELD CONDITIONS.
- ACCESS DOOR. LOCATE ON UNITS WITH REHEAT COILS ONLY.

- STEEL CABLE TRAPEZE HANGER.
- GALVANIZED STEEL CABLE.
- OPEN TO PLENUM. PROVIDE THROWAWAY FILTER OVER OPENING.
- ELECTRICAL POWER AND CONTROLLER ENCLOSURE. MAINTAIN REQUIRED CLEARANCE.
- ELECTRIC HEATING COIL PER APPLICATION.

NOTE:
COORDINATE WITH OTHER TRADES AND INSTALL TERMINAL UNITS TO PROVIDE 18" SIDE AND UNOBSTRUCTED BOTTOM CLEARANCE TO CONTROLLER, ACTUATORS AND VALVES FOR MAINTENANCE. COORDINATE TO INSURE ACCESS IS PROVIDED BY SIMPLE REMOVAL OF ADJACENT UNRESTRICTED CEILING TILES (FREE OF CEILING MOUNTED DEVICES) WITHOUT NEED TO REMOVE LIGHTS OR CEILING GRID. ACCESS DOOR ON TERMINAL UNIT IS FOR INSPECTION AND UPSTREAM COIL CLEANING. ACCESS DOOR USE IS RARE AND REMOVAL OF LIGHTS OR CEILING GRID TO GAIN ACCESS IS ACCEPTABLE.

MARK DESIGNATIONS AS SHOWN ON DRAWINGS ON ALL TERMINAL UNITS WITH 2" HIGH PAINTED STENCIL LETTERING.

3 AIR TERMINAL UNIT
N.T.S. FAN POWERED

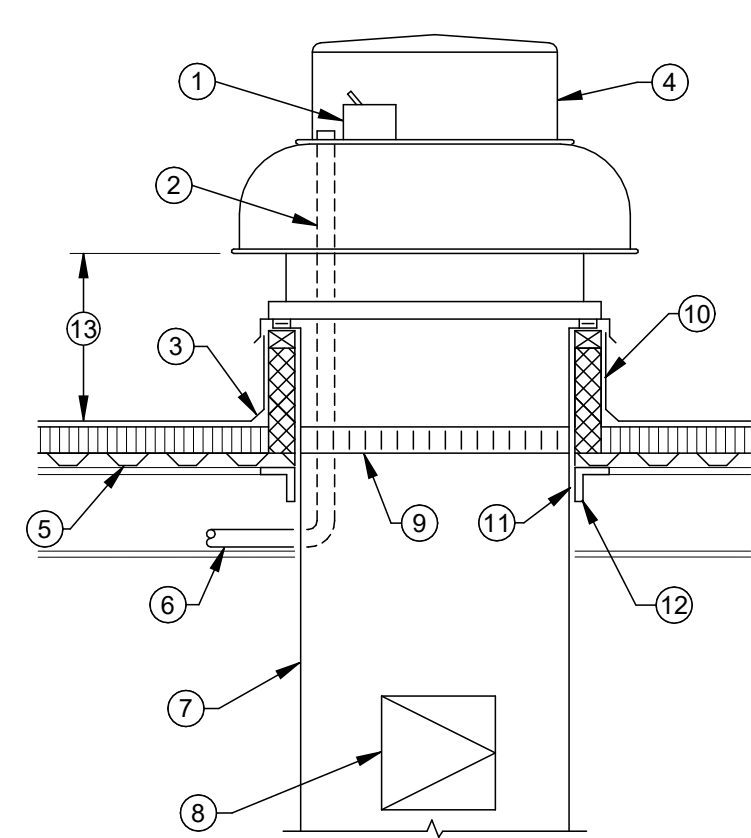


- CONICAL TEE BRANCH FITTING.
- ROUND SHEET METAL BRANCH DUCT, LENGTH AS REQUIRED. INSULATED.
- INSULATED FLEXIBLE DUCT, 4" MAXIMUM LENGTH. STRETCH TO MINIMUM 90% OF FULLY EXTENDED LENGTH.
- AIR TERMINAL UNIT.
- DUCT HANGER.
- ELECTRIC REHEAT COIL.
- LOW PRESSURE SUPPLY DUCT.
- GALVANIZED STEEL CABLE.
- 24" LONG SHEETMETAL AT INLET - REDUCE LENGTH ONLY WHERE REQUIRED BY FIELD CONDITIONS.
- ACCESS DOOR.
- STEEL CABLE TRAPEZE HANGER.

NOTE:
COORDINATE WITH OTHER TRADES AND INSTALL TERMINAL UNITS TO PROVIDE 18" SIDE AND UNOBSTRUCTED BOTTOM CLEARANCE TO CONTROLLER, ACTUATORS AND VALVES FOR MAINTENANCE. COORDINATE TO INSURE ACCESS IS PROVIDED BY SIMPLE REMOVAL OF ADJACENT UNRESTRICTED CEILING TILES (FREE OF CEILING MOUNTED DEVICES) WITHOUT NEED TO REMOVE LIGHTS OR CEILING GRID. ACCESS DOOR ON TERMINAL UNIT IS FOR INSPECTION AND UPSTREAM COIL CLEANING. ACCESS DOOR USE IS RARE AND REMOVAL OF LIGHTS OR CEILING GRID TO GAIN ACCESS IS ACCEPTABLE.

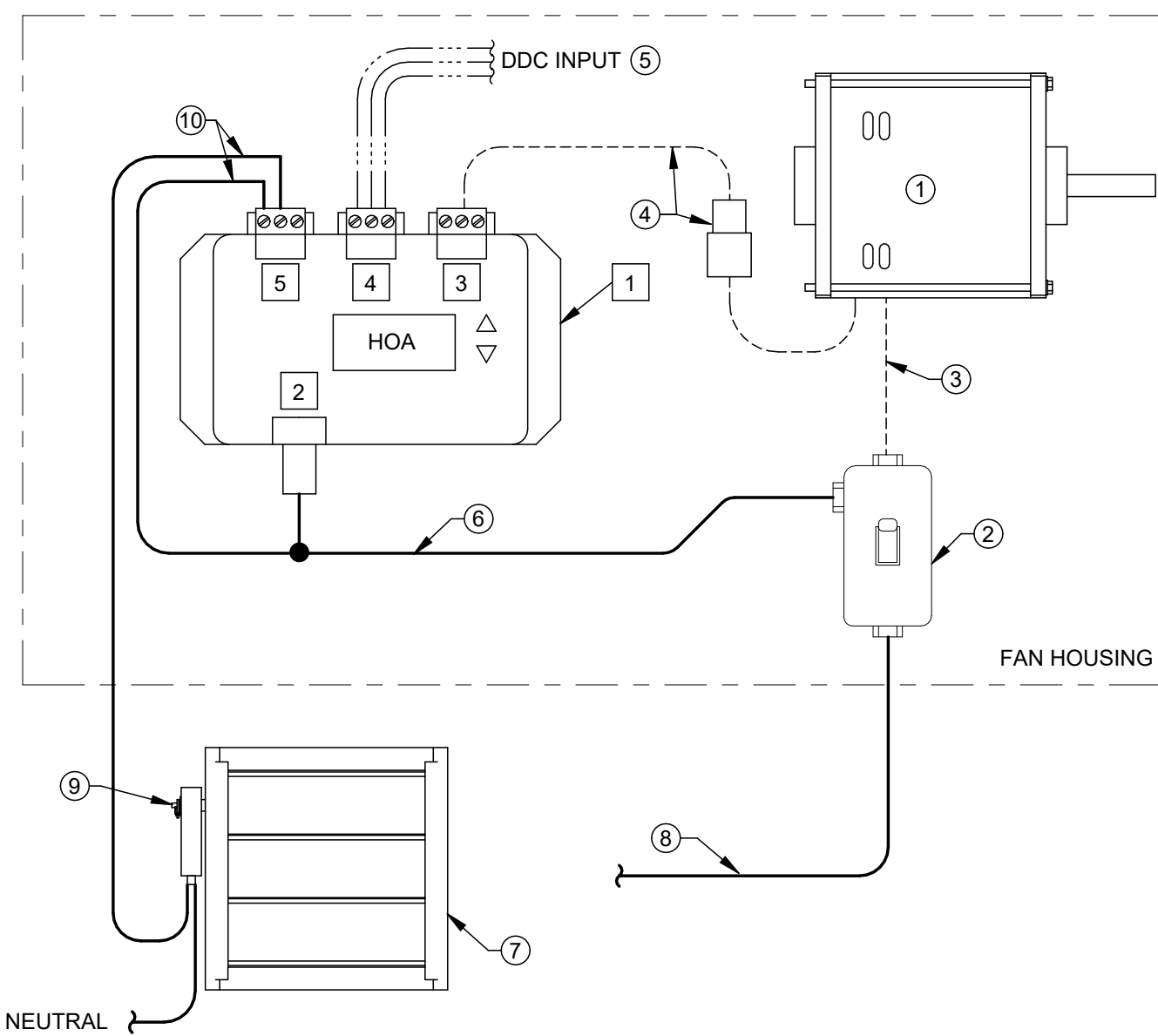
MARK DESIGNATIONS AS SHOWN ON DRAWINGS ON ALL TERMINAL UNITS WITH 2" HIGH PAINTED STENCIL LETTERING.

4 AIR TERMINAL UNIT
N.T.S. SINGLE DUCT, ELECTRICAL REHEAT COIL



- DISCONNECT SWITCH BY FAN MANUFACTURER.
- WIRING CONDUIT CHASE BY FAN MANUFACTURER.
- ROOFING & CURB FLASHING BY ROOFING CONTRACTOR.
- EXHAUST FAN, INSTALL PER MANUFACTURERS RECOMMENDATION.
- METAL ROOF DECK.
- ELECTRIC CONDUIT BY E.C., SEAL DUCT PENETRATION.
- EXHAUST DUCT-REFER TO PLANS/SCHEDULE FOR SIZE
- ACCESS DOOR
- 120V MOTORIZED DAMPER FROM MANUFACTURER.
- 24" TALL ROOF CURB WITH 1.5" INSULATION, INSTALL PER FAN AND ROOFING MANUFACTURERS INSTALLATION RECOMMENDATIONS.
- FILL VOID BETWEEN DUCT AND STRUCTURE WITH FOAM INSULATION.
- SUPPLEMENTAL STEEL FRAMING BY G.C. REFER TO DETAIL _ SHEET _.
- MINIMUM 18" ABOVE ROOF DECK.

5 ROOF MOUNTED EXHAUST FAN DETAIL
N.T.S. DOWNBLAST, STEEL BEAM, METAL DECK



6 HOA CONTROLLER - SINGLE PHASE ECM FAN WIRING DIAGRAM
N.T.S.

CONTROLLER NOTES

- HAND/OFF/AUTO ECM FAN CONTROLLER BY FAN MANUFACTURER. MOUNTED IN FAN HOUSING OR IN BUILDING ADJACENT TO FAN.
- 100 - 277V / 1 PHASE POWER TO CONTROLLER.
- MOTOR CONTROL: 0-10 VDC, 24V, & COM.
- DDC CONTROL SIGNAL: 0-10 VDC, 24V, & COM.
- AUX. CONTACT, LINE OR LOW VOLTAGE, RATED FOR 10A @ 24-250V, N.O., N.C., & COM.

----- WIRING BY H.C.
----- WIRING BY E.C.
----- WIRING BY MANUFACTURER

DETAIL NOTES

- ECM FAN MOTOR.
- TOGGLE DISCONNECT MOUNTED IN FAN HOUSING BY FAN MANUFACTURER.
- SINGLE PHASE WIRING BY MANUFACTURER.
- CONTROL WIRING BY MANUFACTURER.
- DDC INPUT CONTROL WIRING BY H.C.
- LINE VOLTAGE TO POWER MOTORIZED DAMPER BY E.C. TAP ON LOAD SIDE OF TOGGLE SWITCH. PROVIDES POWER TO HOA CONTROLLER AND DAMPER ACTUATOR.
- DUCT MOUNTED MOTORIZED DAMPER BY FAN MANUFACTURER.
- SUPPLY CIRCUIT POWER TO DISCONNECT BY E.C.
- 120V MOTORIZED DAMPER ACTUATOR PROVIDED BY H.C.
- WIRE 120V DAMPER POWER THROUGH AUXILIARY CONTACT.

REVISIONS :

Number	Description	Date
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Bld / Permit Set		

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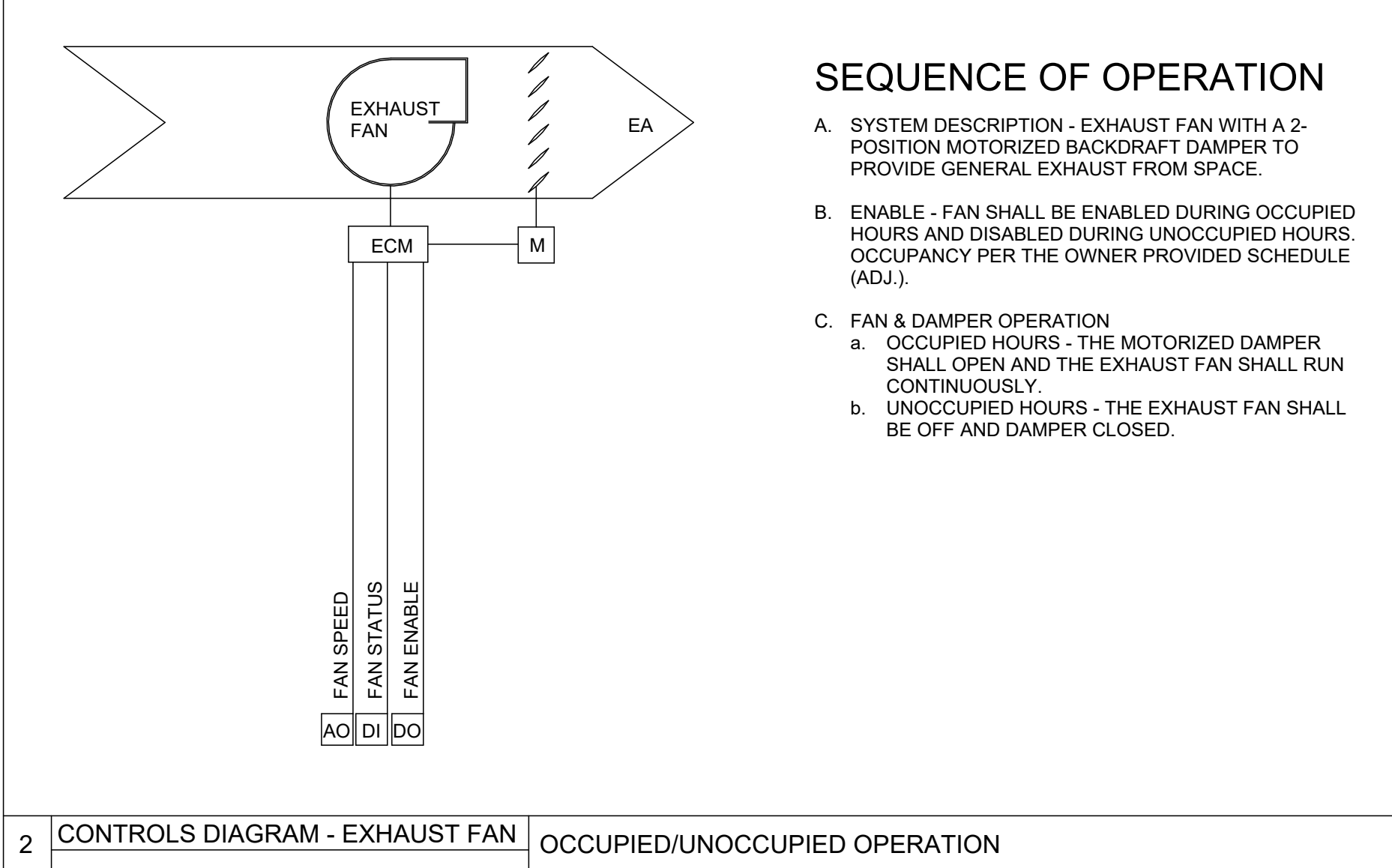
PROJECT NO:
PROJECT #263306.00
CHECKED BY:
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DRAWN BY:
DRH
DATE:
09/15/2026

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DETAILS - EQUIPMENT

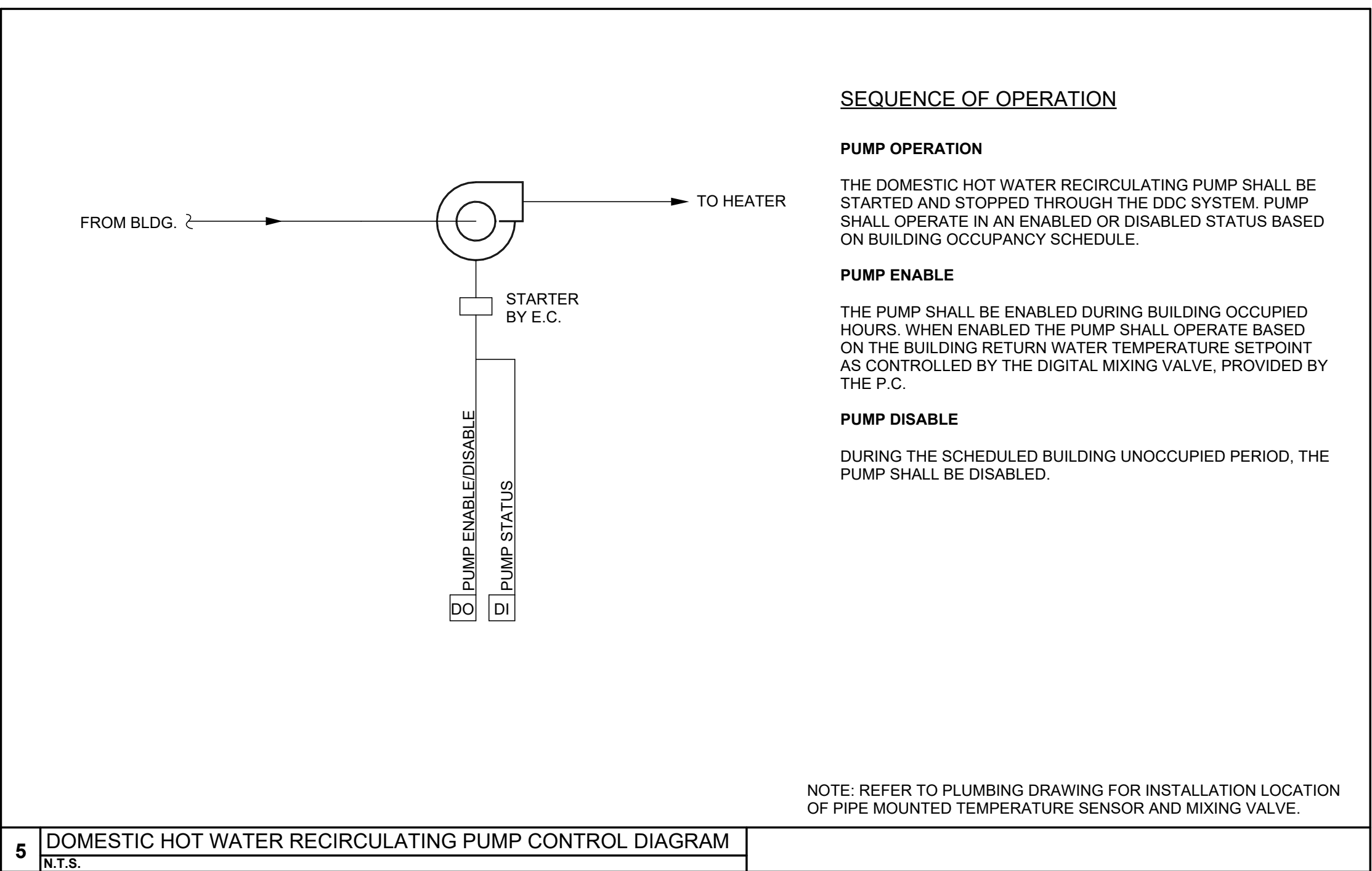
H3.3



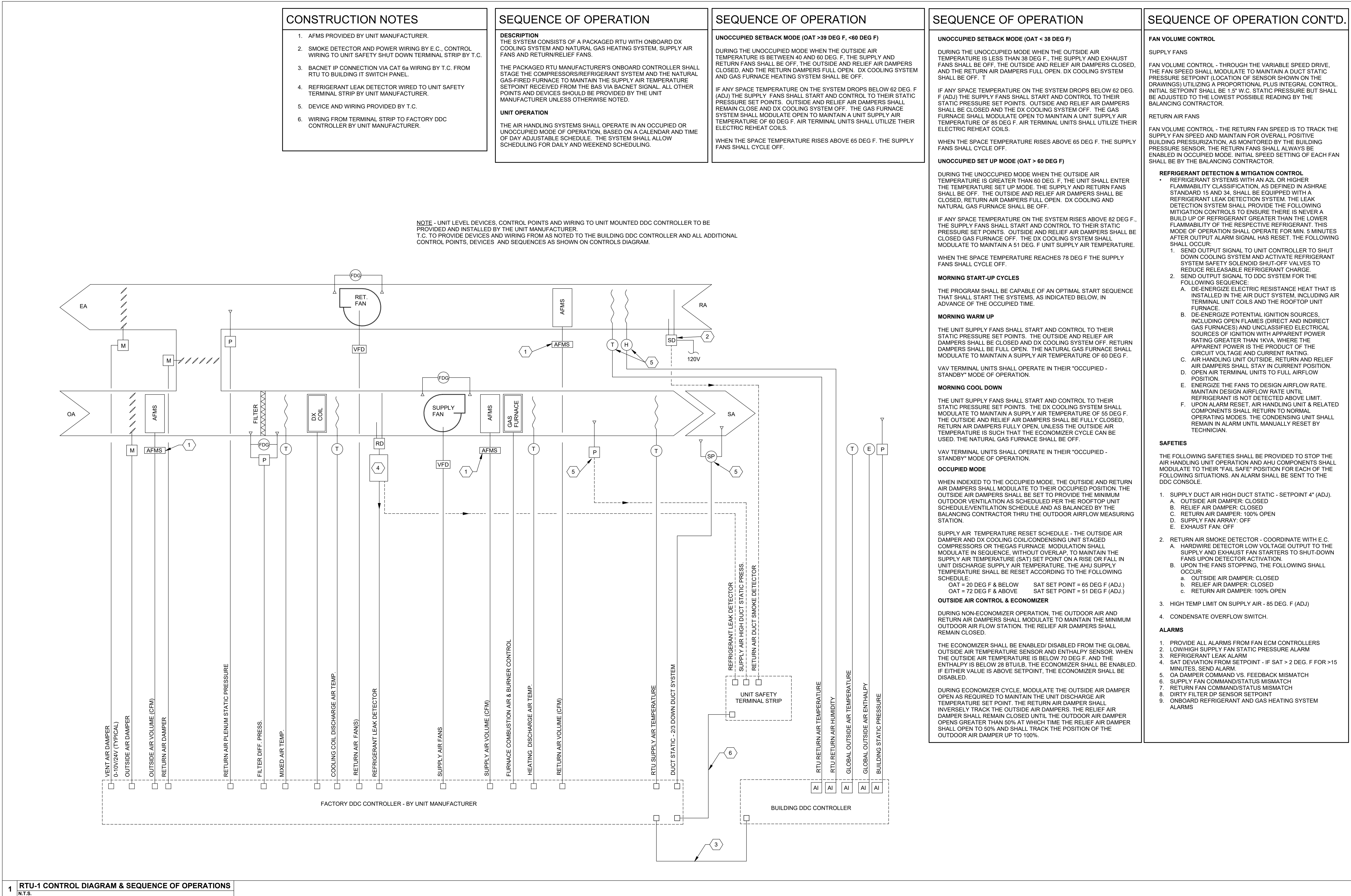
The diagram illustrates the electrical control logic for an Exhaust Fan. It features a main control box labeled "EXHAUST FAN" which contains an "ECM" (Electronic Control Module) and a "DA" (Damper Actuator) component. A "SPACE TEMP SENSOR" is connected to the ECM via a terminal block labeled "T". The ECM has four output terminals: "AO" (Fan Speed), "DI" (Fan Status), "DO" (Fan Enable), and "AI" (Space Temp Sensor). These outputs are connected to corresponding inputs on the "EXHAUST FAN" unit. Additionally, there is a connection from the ECM to a "M" (Motor) component, likely the damper actuator.

SEQUENCE OF OPERATION

- ENABLE - ALWAYS ENABLED.**
- FAN & DAMPER OPERATION - OPEN MOTORIZED BACKDRAFT DAMPER PRIOR TO OPERATION. THE EXHAUST FAN SHALL START IF THE SPACE TEMPERATURE RISES ABOVE THE SETPOINT. SHUT OFF FAN AND CLOSE DAMPER AFTER SPACE TEMPERATURE DROPS 3 DEG. F (ADJ.) BELOW SETPOINT.**
- TEMPERATURE SETPOINT - ROOM SETPOINT SHALL INITIALLY BE SET TO 78 DEG. F (ADJ.).**
- TEMPERATURE SENSOR - SPACE TEMPERATURE SHALL BE SENSED FROM THE ROOM'S LOCALLY MOUNTED SPACE TEMPERATURE SENSOR. WIRE TO LOCAL VAV AIR TERMINAL UNIT OR EQUIPMENT CONTROLLER. REFER TO PLAN FOR LOCATION OF SENSOR.**



9/14/2026 11:26:34 AM



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STATE OF OHIO

JEFFREY D. ZELINSKI

63822

REGISTERED PROFESSIONAL ENGINEER

JEFFREY D. ZELINSKI, LICENSE #63822

EXPIRATION DATE 12/31/2027

REVISIONS :

Number	Description	Date
01	09/13/2025	

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CONSULTANTS

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WARREN COUNTY CAREER CENTER

MEDICAL ACADEMY

3625 OH-48 Lebanon, OH 45036

PROJECT NO:

PROJECT #263306.00

CHECKED BY:

JUZ

DRAWN BY:

DRH

DATE:

09/13/2025

LEVIN PORTER ARCHITECTS

3011 DELUMARK DRIVE

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0-937.224.1931

F: 937.224.3031

TEMPERATURE CONTROLS

H4.2

ASHRAE 62.1 - 2019 VENTILATION CALCULATION - INDOOR AIR QUALITY PROCESS

System Inputs		Multiple Zone	
System Type	Filter Location	B	
System Efficiency Calculation Method	Appendix A Method		
Design System Population (optional)	311 occupants	Ps	System population, maximum simultaneous # of occupants of space served by system
System Design Airflow	19,436 cfm	Vps	System primary airflow from air handler; this may differ from the sum of primary airflow to zones
Cleaned Air Rate (Location A1)	0 CFM	Vc	Rated airflow through the installed air cleaning device for filter location A1
Calculation Results			
Occupant Diversity	1.00	D	Occupant diversity, ratio of system peak occupancy to sum of space peak occupancies, = Ps/SPz
	CFM	Voz	Zone outdoor airflow
	2,500 CFM	Vou	Uncorrected outdoor air intake, = D*1.8p*Ps + s1.8a*Az, cfm (multiple-zone systems)
	0.129	Es	Mixing ratio at primary air handler of uncorrected outdoor air intake to system primary flow, = Vou/Vps
	0.943	Ev	System ventilation efficiency, based on method chosen above
Outside Air Intake	2,652 CFM	Vot	Minimum outside air intake, Vot=Vou/Ev Calculated Vot satisfies IAQP requirements

Contaminant of Concern	Indoor Contaminant Sources	Indoor Contaminant Emission Rates	Outdoor Contaminant Sources	Outdoor Contaminant Concentration	Contaminant Target Concentration		Cognizant Authority Reference	Perceived IAQ	Design Approach
					Limit	Exposure Period			
Acetaldehyde	building materials, paints and coatings	See table below for zone-level contaminant strength	Combustion byproduct	1.083032491	140	Chronic	Cal EPA CREL (June 2016)	(Percentage of satisfied building occupants)	Steady-state mass-balance analysis
Acetone	Personal care, especially nail care; cleaners; paints and coatings; strippers and thinners; PVC cleaner; cements; caulks and adhesives; rubber; wood filler; solvent		gasoline and other petroleum products	9.026128266	1,200	Chronic	AgB8 LCI		
Benzene	petroleum products; industrial solvents; printing and lithography; paints and coatings; rubber; dry cleaning; adhesives; detergents			0.415335463	3	Chronic	Cal EPA CREL (June 2016)		
Dichloromethane	automotive products; degreasing solvent; paint stripper; adhesive remover; aerosol propellant; insecticide			0.173611111	400	Chronic	Cal EPA CTEL (June 2016)		
Formaldehyde	pressed-wood products; furniture and furnishing		Gasoline; diesel fuel; fuel oil; kerosene	2.699386503	33	8-hour	Cal EPA 8-hour REL (2004)		
Naphthalene	moth balls/crystals; insecticide; room deodorant; urinal blocks			0	9	Chronic	Cal EPA CTEL (June 2016)		
Phenyl	plastics			0	10	Chronic	AgB8 LCI		
Tetrachloroethylene	cleaning products			0.034013605	35	Chronic	Cal EPA CTEL (June 2016)		
Toluene	adhesives (building and auto/craft); contact cement; solvent; heavy duty cleaner; inks; cosmetics		gasoline, asphalt	0.794716981	300	Chronic	Cal EPA CTEL (June 2016)		
1,1,1-trichloroethane	paints; cleaning products; glues		gasoline	0.027322404	1,000	Chronic	Cal EPA CTEL (June 2016)		
Xylene, total	paints and coatings; adhesives and cements; solvent; print cartridges			1.043478261	500	Chronic	AgB8 LCI		
Carbon monoxide	cooking, candles, incense		Combustion byproduct	380.43955	10,310	-	USEPA NAAQS		
PM2.5			Combustion byproduct	7.853659	12	-	USEPA NAAQS (annual mean)		
Ozone			Combustion byproduct	80.50405	137	-	USEPA NAAQS		
Ammonia				0	200	Chronic	Cal EPA CTEL (June 2016)		

Mixtures Check			
Mixed Exposure Sum	0.330	Em	Upper Respiratory Tract Irritation
Mixed Exposure Sum	0.931	Em	Eye Irritation
Mixed Exposure Sum	0.033	Em	Central Nervous System
Pass Mixtures Check?	Yes	Em < 1	Are all mixed exposure sums less than unity?

Required Zone Information								Ventilation Requirements					Calculated Zone Contaminant Concentration															Results										Indoor Contaminant Emission Rates									
Zone Name	Room Number	Space Type	Use Default Occupancy?	Zone Floor Area	Zone Population	Zone Air Distribution Effectiveness	Primary Zone Airflow	Zone Recirculated Air	Zone Unmixed IAQ/OA Intake	Zone Ventilation Efficiency	System IAQ/OA Intake	Acetaldehyde	Acetone	Benzene	Dichloromethane	Formaldehyde	Naphthalene	Phenol	Tetrachloroethylene	Toluene	1,1,1-Trichloroethane	Xylene total	PM2.5	Carbon Monoxide	Ozone	Ammonia	Upper Respiratory Tract Irritation	Eye Irritation	Central Nervous System	Acetaldehyde	Acetone	Benzene	Dichloromethane	Formaldehyde	Naphthalene	Phenol	Tetrachloroethylene	Toluene	1,1,1-Trichloroethane	Xylene total	PM2.5	Carbon Monoxide	Ozone	Ammonia			
				A _z (ft²)	P _z (people)	E _z	V _z (CFM)	RV _z (1/CFM)	V _{ou} (CFM)	E _v	V _{ot}	Cbz (ppm)	Cbz (ppm)	Cbz (ppm)	Cbz (ppm)	Cbz (ppm)	Cbz (ppm)	Cbz (ppm)	Cbz (ppm)	Cbz (ppm)	Cbz (ppm)	Cbz (ppm)	Cbz (ppm)	Cbz (ppm)	Cbz (ppm)	Cbz (ppm)	Em	Em	Em	N (ppm)	N (ppm)	N (ppm)	N (ppm)	N (ppm)	N (ppm)	N (ppm)	N (ppm)	N (ppm)	N (ppm)	N (ppm)	N (ppm)	N (ppm)	N (ppm)				
Totals:				2,389	30		2,389	2,076	307	0.943	2,652															0.25	0.90	0.03																			
EXERCISE SCIENCE		Classrooms (age 9 plus)	No	2,389	30	0.8	2,389	2,078	307	0.905		7	21	0	1	21	0	2	0	2	0	2	1	356	24	-	0.25	0.90	0.03	3,862	8,367	47	262	13,139	84	1,387	31	852	27	895	-	-	-	-	-		
SURGICAL TECH		Classrooms (age 9 plus)	No	1,576	30	0.8	1,576	1,573	232	1,003		6	19	0	0	18	0	2	0	2	0	2	1	356	33	-	0.30	0.85	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CORRIDOR		Corridors	Yes	1,737	-	-	1,650	915	135	0.980		8	23	0	1	22	0	2	0	2	0	2	1	358	21	-	0.23	0.90	0.03	3,568	6,084	34	190	6,051	81	1,009	23	620	19	845	-	-	-	-	-		
CLASSROOM		Classrooms (age 9 plus)	Yes	887	30	0.8	1,210	1,054	156	1,031		7	21	0	1	21	0	2	0	2	0	2	1	356	26	-	0.28	0.88	0.03	1,360	3,107	17	97	4,678	31	515	12	318	10	258	-	-	-	-	-		
CONFERENCE		Conference/meeting	Yes	220	8	0.8	705	620	91	1,102		6	20	0	1	19	0	2	0	2	0	2	1	356	30	-	0.28	0.85	0.03	452	771	4	24	769	8	128	3	78	2	84	-	-	-	-	-		
PRE-NURSING LAB		Classrooms (age 9 plus)	Yes	1,810	30	0.8	1,980	1,725	255	1,007		7	21	0	1	21	0	2	0	2	0	2	1	356	25	-	0.25	0.89	0.03	2,775	6,339	35	198	9,955	84	1,051	24	646	20	526	-	-	-	-	-		
CLASSROOM		Classrooms (age 9 plus)	Yes	887	30	0.8	1,180	1,037	153	1,023		7	21	0	1	21	0	2	0	2	0	2	1	356	26	-	0.28	0.88	0.03	1,360	3,107	17	97	4,678	31	515	12	318	10	258	-	-	-	-	-		
CLASSROOM		Classrooms (age 9 plus)	Yes	887	30	0.8	1,180	1,037	153	1,023		7	21	0	1	21	0	2	0	2	0	2	1	356	26	-	0.28	0.88	0.03	1,360	3,107	17	97	4,678	31	515	12	318	10	258	-	-	-	-	-		
DENTAL		Classrooms (age 9 plus)	Yes	1,576	30	0.8	1,800	1,568	232	1,012		7	21	0	1	21	0	2	0	2	0	2	1	356	25	-	0.25	0.89	0.03	2,414	5,516	31	173	8,662	56	915	20	562	18	458	-	-	-	-	-		
NURSE STORAGE		Occupiable storage rooms for	Yes	99	0	0.8	50	44	6	0.961		8	23	0	1	22	0	2	0	2	0	2	1	356	20	-	0.23	0.90	0.03	203	347	2	11	345	3	57	1	35	1	28	-	-	-	-	-		
NURSE STORAGE		Occupiable storage rooms for	Yes	99	0	0.8	50	44	6	0.961		8	23	0	1	22	0	2	0	2	0	2	1	356	20	-	0.23	0.90	0.03	203	347	2	11	345	3	57	1	35	1	28	-	-	-	-	-		
NURSE STORAGE		Occupiable storage rooms for	Yes	99	0	0.8	50	44	6	0.961		8	23	0	1	22	0	2	0	2	0	2	1	356	20	-	0.23	0.90	0.03	203	347	2	11	345	3	57	1	35	1	28	-	-	-	-	-		
UNISEX		Restroom	Yes	80	-	0.8	50	44	6	1.003		6	19	0	0	18	0	2	0	2	0	2	1	356	22	-	0.23	0.78	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
UNISEX		Restroom	Yes	80	-	0.8	50	44	6	1.003		6	19	0	0	18	0	2	0	2	0	2	1	356	22	-	0.23	0.78	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
STAFF		Office space	Yes	60	0	0.8	50	44	6	1.002		7	22	0	1	21	0	2	0	2	0	2	1	356	21	-	0.24	0.87	0.03	123	210	1	7	209	2	35	1	21	1	17	-	-	-	-	-		
STAFF		Office space	Yes	60	0	0.8	50	44	6	1.027		7	22	0	1	21	0	2	0	2	0	2	1	356	22	-	0.24	0.87	0.03	123	210	1	7	209	2	35	1	21	1	17	-	-	-	-	-		
LAUNDRY		Laundry rooms within dwelling	Yes	134	1	0.8	176	152	23	1,003		6	19	0	0	18	0	2	0	2	0	2	1	356	26	-	0.25	0.85	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PRE-NURSING LAB		Classrooms (age 9 plus)	Yes	1,810	30	0.8	1,980	1,725	255	1,007		7	21	0	1	21	0	2	0	2	0	2	1	356	25	-	0.25	0.89	0.03	2,775	6,339	35	198	9,955	84	1,051	24	646	20	526	-	-	-	-	-		
PRE-NURSING LAB		Classrooms (age 9 plus)	Yes	1,810	30	0.8	1,980	1,725	255	1,007		7	21	0	1	21	0	2	0	2	0	2	1	356	25	-	0.25	0.89	0.03	2,775	6,339	35	198	9,955	84	1,051	24	646	20	526	-	-	-	-	-		
VEHICLE		Corridors	Yes	20	-	0.8	200	174	28	1,091		6	20	0	1	19	0	2	0	2	0	2	1	356	25	-	0.27	0.85	0.03	183	312	2	10	310	3	52	1	32	1	26	-	-	-	-	-		
JANITORS CLOSET		Janitor	Yes	148	-	0.8	100	87	13	1,003		6	19	0	0	18	0	2	0	2	0	2	1	356	22	-	0.22	0.77	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
STORAGE		Occupiable storage rooms for	Yes	92	0	0.8	44	39	6	0.943		9	24	0	1	22	0	2	0	2	0	2	1	356	15	-	0.21	0.86	0.03	113	193	1	6	162	2	32	1	20	1	16	-	-	-	-	-		

Mixtures of Compounds

Upper Respiratory Tract Irritation

- Acetaldehyde
- Acetone
- Xylene, total
- Ozone

Eye Irritation

- Acetaldehyde
- Acetone
- Formaldehyde
- Xylene, total
- Ozone

Central Nervous System

- Acetone
- Dichloromethane
- Xylene, total
- 1,1,1-trichloroethane
- Toluene

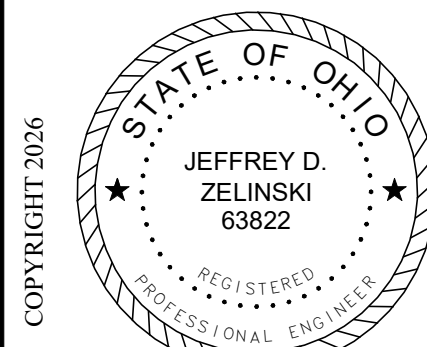
VENTILATION GENERAL NOTES

THE INDOOR AIR QUALITY PROCEDURE (IAQP) IS UTILIZED TO DETERMINE THE ROOFTOP UNITS OUTDOOR AIR VENTILATION RATE.

- PER OMC 403.2 EXCEPTION #2, CALCULATIONS ARE BASED ON ASHRAE 62.1 - 2019. ASHRAE 62.1-2019 6.3 DEFINES THE IAQP PROCESS.
- THE TABLES ON THIS SHEET ARE PRODUCED USING THE ASHRAE 62.1 IAQP SPREADSHEET. THIS SPREAD SHEET IS PUBLISHED BY ASHRAE.
- HAZARDOUS COMPOUND CONCENTRATIONS ARE CALCULATED FOR EACH ZONE TO VERIFY COMPLIANCE.
- COMPOUND MIXED EXPOSURE SUMS ARE CALCULATED FOR THE FOLLOWING COMPOUND CATEGORIES, A VALUE LOWER THAN 1 INDICATES THE MIXTURE RATIO IS LESS THAN ALLOWABLE LIMITS. A VALUE GREATER THAN 1 INDICATES THE MIXTURE HAS A GREATER CONCENTRATION THAN ALLOWABLE LIMITS.
 - UPPER RESPIRATORY TRACT IRRITATION
 - EYE IRRITATION
 - CENTRAL NERVOUS SYSTEM
 - CARBON DIOXIDE

RTU-1: THE OUTDOOR AIR PERCENTAGE TO BE PROVIDED IS 16.9%, THEREFORE NO ENERGY RECOVERY IS REQUIRED PER ASHRAE 90.1-2019 TABLE 6.5.6.1.2-1.

REQUIRED OUTDOOR AIR: 2652 CFM
TOTAL OUTDOOR AIR PROVIDED: 2700 CFM



JEFFERY D. ZELINSKI LICENSE #63822
EXPIRATION DATE 12/31/2027

REVISIONS:

Revision	By	Date
1	JE	09/15/2026

PRINTINGS:

Plot / Print Set	09/15/2026
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CONSULTANTS

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GENERAL NOTES

- A. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2024 OHIO BUILDING CODE, INCLUDING REFERENCED CODES AND STANDARDS, ALL LOCAL AND STATE CODES AND MEET APPROVAL OF AUTHORITIES HAVING JURISDICTION.
- B. BIDDERS SHALL INSPECT PROJECT SITE EXISTING CONDITIONS DURING BIDDING.
- C. INCLUDE PAYMENT OF ALL PERMIT AND INSPECTION FEES AND OBTAIN AN ELECTRICAL PERMIT AND SECURE INSPECTION AND APPROVAL OF THE CODE OFFICIAL.
- D. SUBMIT AN ELECTRONIC COPY OF SUBMITTAL DATA AND DESCRIPTIVE LITERATURE IN .PDF FORMAT FOR ALL FIXTURES AND EQUIPMENT.
- E. WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY AND REPRESENT THE BEST PRACTICES OF THE INDUSTRY.
- F. COORDINATE INSTALLATION WITH OTHER TRADES; PROVIDE OFFSETS AS REQUIRED.
- G. INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- H. COORDINATE EACH ROUGH-IN INSTALLATION REQUIREMENTS AND LOCATIONS WITH OTHER TRADES, ACTUAL EQUIPMENT OR CABINERY PROVIDED AND FIELD CONDITIONS BEFORE PERFORMING WORK.
- I. REFER TO ARCHITECTURAL DRAWING ELEVATIONS FOR MOUNTING LOCATION INFORMATION, ARRANGEMENT AND HEIGHT FOR ALL DEVICES AT FURNISHINGS, CASEWORK, ETC.
- J. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES. WHERE DISCREPANCIES MAY OCCUR BETWEEN THE ELECTRICAL PLANS AND THE ARCHITECTURAL CEILING PLANS ON QUANTITY OF FIXTURES, THE ELECTRICAL PLANS SHALL TAKE PRECEDENCE. COORDINATE FIXTURE LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS WITH PIPING AND DUCTWORK.
- K. ALL EQUIPMENT AND MATERIAL REQUIRED FOR COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEMS SHALL BE INCLUDED IN THE CONTRACT.

ELECTRICAL SPECIFICATIONS CONT'D

- FF. EXISTING CONDUITS AND WIRING NOT TO BE REUSED, SHALL BE REMOVED BACK TO SOURCE. REMOVE ALL UNUSED ELECTRICAL WORK, EQUIPMENT, WIRING AND CONDUITS, ETC. IN AREA OF WORK. DO NOT ABANDON IN PLACE UNLESS INACCESSIBLE. DISPOSE OF ALL REMOVED ITEMS EXCEPT WHERE OWNER WISHES TO KEEP THE ITEM.
- GG. PERFORM ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF ELECTRICAL SYSTEMS. PATCHING SHALL BE CONSISTENT WITH ADJACENT SURFACES.
- HH. PROVIDE ONE YEAR COMPLETE WARRANTY (PARTS, MATERIALS, LABOR). START OF WARRANTY FROM DATE OF BENEFICIAL OCCUPANCY AGREED TO IN WRITING.

ELECTRICAL SPECIFICATIONS

- A. ALL ELECTRICAL WIRING, EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE 2024 OHIO BUILDING CODE, 2023 NATIONAL ELECTRIC CODE AND LOCAL CODES, LATEST ADOPTED EDITIONS.
- B. ALL ELECTRICAL EQUIPMENT SHALL BE U.L. APPROVED AND COMMERCIAL GRADE. PANELBOARDS, CIRCUIT BREAKERS AND DISCONNECTS BY SQUARE D, SIEMENS, CUTLER-HAMMER OR G.E.
- C. SUBMIT ELECTRONIC SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO ORDERING FOR THE FOLLOWING EQUIPMENT: LIGHT FIXTURES, PANELBOARD(S), CIRCUIT BREAKER(S) AND WIRING DEVICES.
- D. ALL POWER AND SYSTEMS WIRING SHALL BE INSTALLED IN CONDUIT RACEWAYS UNLESS OTHERWISE SPECIFICALLY NOTED.
- E. STAGGER LOCATIONS OF RECESSED OUTLETS WHERE SHOWN ON OPPOSITE SIDES OF STUD WALL PARTITIONS TO PREVENT SOUND TRANSMISSION BETWEEN ROOMS.
- F. DRAWINGS ARE SCHEMATIC IN NATURE TO REPRESENT REQUIRED EQUIPMENT/DEVICES AND ASSOCIATED POWER/CIRCUITRY. DRAWINGS SHALL NOT BE SCALED FOR DEVICE LOCATIONS. THE E.C. SHALL COORDINATE THE FINAL LOCATIONS OF ALL FLUSH MOUNTED DEVICES (INCLUDING FIRE ALARM AND TECHNOLOGY ROUGH-IN BOXES) WITH CASEWORK, FIXED FURNITURE, ETC. TO AVOID CONFLICTS AND VIEWING OBSTRUCTIONS. RECEPTACLES ASSOCIATED WITH ADJACENT TO TECHNOLOGY OUTLET BOXES SHALL BE LOCATED AT THE SAME MOUNTING HEIGHT AND WITHIN 6" HORIZONTALLY UNLESS SPECIFICALLY NOTED OTHERWISE.
- G. THE ARCHITECT SHALL RESERVE THE RIGHT TO MAKE MINOR ADJUSTMENT IN LOCATIONS OF SYSTEM RUNS AND COMPONENTS WHERE THEY CONSIDER SUCH ADJUSTMENTS DESIRABLE IN THE INTEREST OF CONCEALING WORK OR PRESENTING A BETTER APPEARANCE WHERE EXPOSED. ANY SUCH CHANGES SHALL BE ANTICIPATED AND REQUESTED SUFFICIENTLY IN ADVANCE SO AS TO NOT CAUSE EXTRA WORK, OR UNDULY DELAY THE WORK. COORDINATE WORK IN ADVANCE WITH ALL OTHER TRADES AND REPORT IMMEDIATELY ANY DIFFICULTIES WHICH CAN BE ANTICIPATED. WHERE ANY SYSTEM RUNS AND COMPONENTS ARE SO PLACED AS TO CAUSE OR CONTRIBUTE TO A CONFLICT, IT SHALL BE READJUSTED AT THE EXPENSE OF THE CONTRACTOR CAUSING SUCH CONFLICT. THE ARCHITECT'S DECISION SHALL BE FINAL IN REGARD TO ARRANGEMENT OF EQUIPMENT, CONDUITS, DEVICES, WIREWAYS ETC., WHERE CONFLICT ARISES.
- H. ALL WIRING SHALL UTILIZE MIN. #12 AWG SIZE COPPER THHN/THWN STRANDED CONDUCTORS WITH INSULATION SUITABLE FOR THE APPLICATION. CONDUCTORS FOR ELECTRIC RADIANT HEATERS SHALL BE LISTED FOR THE APPLICATION.
- I. PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT AND SEPARATE GREEN COLORED INSULATED COPPER GROUNDING CONDUCTOR FOR EACH BRANCH CIRCUIT CONDUIT. NEUTRAL WIRES FOR 120 VOLT CIRCUITS SHALL BE WHITE AND FOR 277 VOLT CIRCUITS SHALL BE GRAY COLOR.
- J. ALL CONDUCTORS SHALL BE INSTALLED IN MIN. 0.75" SIZE CONDUIT OR MC CABLEING AS ALLOWED BELOW. EMT SHALL BE UTILIZED FOR INTERIOR FEEDERS AND BRANCH CIRCUITRY. MC CABLE SHALL ONLY BE ALLOWED FOR 20 AMP CIRCUITS. FINAL CONNECTION TO INDOOR LIGHT FIXTURES, AND DROPS TO RECEPTACLES IN WALLS. MC CABLEING IS NOT PERMITTED TO BE USED FOR EXPOSED CONDUIT LOCATIONS. ALL HOME RUN BRANCH CIRCUITS SHALL BE IN EMT CONDUIT. THE HOME RUN CONDUIT SHALL ORGNATE AT THE PANLE BOARD AND SHALL TERMINATE AT THE LAST CONNECTED DEVICE ON THE CIRCUIT OR IN THE CENTER OF THE ROOM/AREA THAT THE CIRCUIT SERVES. LIQUID TIGHT FLEXIBLE METAL CONDUIT SHALL BE USED FOR ALL OTHER FINAL CONNECTIONS TO MOVEABLE/VIBRATING EQUIPMENT. ALL EXTERIOR CONDUIT SHALL BE RIGID METAL CONDUIT.
- K. EMT CONDUIT FITTINGS SHALL BE ALL STEEL COMPRESSION OR SETSCREW TYPE.
- L. ALL CONDUITS INSTALLED ON EXTERIOR OF BUILDING SHALL BE RIGID GALVANIZED TYPE WITH THREADED STEEL FITTINGS. UTILIZE COMPATIBLE NEMA 3R TYPE BOXES FOR ALL EXTERIOR FIXTURE AND OUTLET BOXES.
- M. BRANCH CIRCUITS WHERE FISHED IN EXISTING INACCESSIBLE WALLS ONLY MAY UTILIZE MC CABLE OR 0.5" SIZE FLEXIBLE METALLIC CONDUIT TO INDIVIDUAL DEVICES WHEN PROPERLY SUPPORTED.
- N. ALL EMPTY CONDUITS INSTALLED FOR ANY LOW VOLTAGE CABLEING USES INCLUDING VOICEDATA, SECURITY, AV, MONITORING OR ANY OTHER LOW VOLTAGE SYSTEM SHALL HAVE NYLON BUSHINGS INSTALLED ON ALL CONDUIT OPEN ENDS.
- O. ALL EMPTY CONDUITS SHALL HAVE A NYLON PULLSTRING INSTALLED PER SPECIFICATIONS.
- P. WIRING DEVICES SHALL BE SPECIFICATION GRADE, WHITE COLOR, WITH BRUSHED STAINLESS STEEL COVERPLATES. HUBBELL, PAS, COOPER OR LEVITON. PROVIDE TAMPER RESISTANT RECEPTACLES IN LOCATIONS AS REQUIRED BY NEC 406.12.
- Q. ALL CONDUIT, FITTINGS, BENDS, ETC. SHALL BE PROPERLY SUPPORTED PER NEC AND NEATLY INSTALLED.
- R. RECESSED OR SURFACE MOUNTED LIGHT FIXTURES INSTALLED IN LAY-IN CEILING SHALL BE SUPPORTED AT MINIMUM TWO OPPOSITE CORNERS, INDEPENDENT OF EACH OTHER, FROM STRUCTURES ABOVE WITH #12 STEEL SUPPORT WIRES. DOWNLIGHTS SHALL BE SUPPORTED FROM STRUCTURE WITH MINIMUM ONE #12 STEEL SUPPORT WIRE FROM FIXTURE TO STRUCTURE.
- S. IDENTIFY PANEL AND CIRCUIT NUMBER ON ALL RECEPTACLE COVERPLATES WITH PRINTED LABELS WITH BLACK LETTERS ON CLEAR ADHESIVE BACKGROUND.
- T. PROVIDE TYPED PANEL DIRECTORIES INDICATING TYPE OF LOAD AND ROOM DESCRIPTION WITH ROOM NUMBER AND TYPE. UPDATE ALL EXISTING PANEL DIRECTORIES WITH NEW TYPED DIRECTORY CARDS WITH ALL CIRCUIT REVISIONS NOTED.
- U. ALL SPARE BREAKERS IN PANELBOARDS SHALL BE TURNED 'OFF'.
- V. THE TOTAL LOAD (AMPERES) OF ANY BRANCH CIRCUIT SHALL NOT EXCEED 80% OF THE RATED AMPACITY OF THE CIRCUIT BREAKER FOR THAT CIRCUIT.
- W. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS TO AVOID INTERFERENCE WITH THE BUILDING COMPONENTS, EXISTING UTILITIES, EQUIPMENT, ETC.
- X. THE E.C. SHALL PROVIDE FIRESTOPPING FOR ALL PENETRATIONS THRU RATED WALLS. ALL FIRESTOPPING ASSEMBLIES SHALL BE LISTED AND APPROVED FOR THE ASSEMBLY AND PENETRATION UTILIZED.
- Y. IDENTIFY ALL BRANCH CIRCUITS AT ALL JUNCTION BOXES BY NEATLY PRINTING PANEL AND CIRCUIT NUMBERS ON BOX COVERS WITH INDELIBLE MARKER.
- Z. NEATLY LABEL BRANCH CIRCUIT NUMBERS ON EACH EXPOSED CONDUIT LEAVING PANELBOARDS WITH INDELIBLE MARKERS.
- AA. NEATLY LABEL PANEL AND BRANCH CIRCUIT NUMBERS ON EACH ACCESSIBLE OR EXPOSED CONDUIT ENTERING OR LEAVING ALL PULLBOXES AND JUNCTION BOXES WITH INDELIBLE MARKERS.
- BB. LABEL ALL NORMAL POWER PANELBOARDS WITH PHENOLIC WHITE BACKGROUND AND BLACK LETTER PLATE WITH SOURCE OF FEEDER, SWITCH OR BREAKER NUMBER, VOLTAGE, PHASE, AND BRANCH.
- CC. LABEL ALL NORMAL POWER DISCONNECT SWITCHES WITH PHENOLIC WHITE BACKGROUND AND BLACK LETTER PLATE WITH PANEL, CIRCUIT NUMBER, VOLTAGE, PHASE, FED FROM AND DESCRIPTION OF LOAD FED.
- DD. DISCONNECT SWITCHES SHALL BE HEAVY DUTY, FUSIBLE TYPE TO UTILIZE 'RK1' FUSES.
- EE. EQUIPMENT, DUCTWORK AND PIPING SHALL NOT BE INSTALLED IN THE DEDICATED ELECTRICAL SPACE ABOVE OR IN THE WORKING SPACE REQUIRED AROUND ELECTRICAL SWITCHGEAR, MOTOR CONTROL CENTERS OR PANELBOARDS AS IDENTIFIED BY NEC 110.26 SPACES ABOUT ELECTRICAL EQUIPMENT – 600 VOLTS NOMINAL OR LESS FOR EQUIPMENT RATED OVER 600 VOLTS NOMINAL – 110.32 WORK SPACE ABOUT EQUIPMENT – 110.33 ENTRANCE AND ACCESS TO WORK SPACE – 110.34 WORK SPACE AND GROUNDING. THE ELECTRICAL CONTRACTOR SHALL CAUTION OTHER TRADES TO COMPLY WITH THIS STIPULATION.

ELECTRICAL LEGEND CONT'D

- ↑ SINGLE POLE WALL SWITCH (46" M.H.)
- ↑2 TWO POLE WALL SWITCH (46" M.H.).
- ↑3 THREE-WAY WALL SWITCH (46" M.H.)
- ↑4 FOUR-WAY WALL SWITCH (46" M.H.)
- ↑OS LIGHTING OCCUPANCY SENSOR WALL SWITCH (46" M.H.)
- ↑D LIGHTING 0-10V LED DIMMER SWITCH WITH PRESET SLIDE CONTROL AND POWER ON-OFF 'DECORATOR' STYLE SWITCH (46" M.H.) UNLESS OTHERWISE INDICATED.
- ↑3D LIGHTING 0-10V LED DIMMER SWITCH WITH PRESET SLIDE CONTROL AND 3-WAY POWER ON-OFF 'DECORATOR' STYLE SWITCH (46" M.H.) UNLESS OTHERWISE INDICATED.
- ↑VS LIGHTING VACANCY SENSOR WALL SWITCH WITH MANUAL 'ON' PUSHBUTTON AND DUAL TECHNOLOGY MOTION SENSOR TO AUTOMATICALLY TURN 'OFF' WHEN ROOM UNOCCUPIED (46" M.H.)
- ↑DV 0-10V LED COMBINATION VACANCY SENSOR AND DIMMER SWITCH WITH PRESET SLIDE CONTROL AND SEPARATE ON-OFF 'DECORATOR' STYLE SWITCH (46" M.H.) UNLESS OTHERWISE INDICATED. RATED MIN. 800 WATTS.
- OC OCCUPANCY SENSOR, CEILING MOUNTED.
- OR OCCUPANCY SENSOR CONTROL RELAY.
- OC OCCUPANCY SENSOR CONTROL RELAY; 2 CIRCUIT TYPE FOR NORMAL AND EMERGENCY POWER CONTROL.
- ED OCCUPANCY SENSOR UL 924 RELAY TO TURN EMERGENCY SWITCH/LEG LIGHTS 'ON' AND BYPASS SWITCH ON LOSS OF NORMAL POWER. DIMMED EMERGENCY FIXTURES TO BYPASS DIMMER CONTROL TO DRIVE DIMMED FIXTURES TO FULL BRIGHTNESS.
- DISCONNECT SWITCH
- MOTOR STARTER OR VFD.
- COMBINATION MOTOR STARTER OR VFD AND DISCONNECT SWITCH.
- ELECTRIC MOTOR.
- UNIT HEATER.
- FAN COIL UNIT.
- CIRCUIT BREAKER PANEL, FLUSH MOUNTED.
- CIRCUIT BREAKER PANEL, SURFACE MOUNTED.
- POWER PANEL OR SWITCHBOARD, SURFACE MOUNTED.
- LINE VOLTAGE THERMOSTAT.
- ELECTRIC BASEBOARD HEATER.
- AIR CONDITIONER.
- NEW DATA OUTLET (18" M.H. UNLESS OTHERWISE INDICATED). TWO GANG OUTLET BOX WITH SINGLE GANG TRIM RING AND BLANK COVERPLATE. STUB AN EMPTY 1.0" BUSHED CONDUIT OUT ABOVE ACCESSIBLE CEILING.
- EXISTING DATA OUTLET.
- TELEPHONE/DATA FLOOR OUTLET, HUBBELL BA-2436 FLUSH FLOOR OUTLET BOX AND SA-3828 COVERPLATE WITH 0.75" BUSHED CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE CARPET FLANGE WHERE REQUIRED.
- WIRELESS WIFI ACCESS POINT; CEILING MOUNTED.
- FIRE ALARM SPEAKER & SIGNAL LIGHT (80" A.F.F.), # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 110 CANDELA.
- FIRE ALARM HORN & SIGNAL LIGHT (80" A.F.F.), # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 110 CANDELA.
- FIRE ALARM SIGNALING LIGHT (80" A.F.F.), # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 110 CANDELA.
- FIRE ALARM SENDING STATION (46" M.H.).
- CEILING MOUNTED SMOKE DETECTOR.
- CEILING MOUNTED SMOKE DETECTOR.
- DUCT MOUNTED SMOKE DETECTOR (S/SUPPLY, R/RETURN).
- DUCT MOUNTED HEAT DETECTOR (S/SUPPLY, R/RETURN).
- ELECTRIC RELEASE DOOR CLOSER.
- ELECTRO-MAGNETIC DOOR HOLDER.
- FIRE ALARM CONTROL OR SUPERVISORY INPUT RELAY AS NOTED. CONTROL RELAY TO HAVE FORM 'C' CONTACT RATED MIN. 5 AMPS AT 120VAC.
- WATER FLOW SWITCH.
- FIRE ALARM SUPERVISED VALVE.
- SOLENOID VALVE.
- DUCT MOUNTED DETECTOR REMOTE TEST STATION AND ALARM INDICATOR.
- SMOKE DAMPER
- FIRE ALARM NOTIFICATION APPLIANCE POWER EXTENDER PANEL. PROVIDE 20A-120V CIRCUIT FROM LOCAL EMERGENCY PANEL INDICATED. CONNECT TO MAIN FIRE ALARM PANEL FOR NOTIFICATION SIGNALING.
- TELEVISION MONITOR RECEPTACLE AND CABLE OUTLET BOX ASSEMBLY REFER TO TV WALL BOX DETAIL - T1
- TELEVISION MONITOR RECEPTACLE AND CABLE OUTLET BOX ASSEMBLY REFER TO TV WALL BOX DETAIL - T2
- DOOR ACCESS CONTROL SYSTEM CARD READER - 46" M.H.
- CCTV CAMERA, F = FIXED; PTZ = PAN/TILT/ZOOM
- ELECTRIC DOOR OPERATOR, INCLUDING RELAYS, OPERATING SWITCHES AND LIMIT SWITCHES SHALL BE FURNISHED BY THE DOOR EQUIPMENT SUPPLIER AND INSTALLED BY THE E.C. IN ACCORDANCE WITH APPROVED WIRING DIAGRAMS BY THE EQUIPMENT SUPPLIER (120 VOLT SINGLE PHASE OPERATION).
- PUSHPLATE DOOR CONTROLS FURNISHED BY THE DOOR EQUIPMENT SUPPLIER AND INSTALLED BY THE E.C. (42" M.H.).
- PUSHBUTTON (46" M.H. UNLESS OTHERWISE NOTED ON PLAN).

GENERAL LEGEND

- EC ELECTRICAL CONTRACTOR.
- FC FIRE PROTECTION CONTRACTOR.
- GC GENERAL CONTRACTOR.
- HC HVAC CONTRACTOR.
- PC PLUMBING CONTRACTOR.
- TC TEMPERATURE CONTROLS CONTRACTOR.
- NT NOT IN CONTRACT.
- AFF ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.
- (E) EXISTING.
- ES EQUIPMENT SUPPLIER.
- EM EMERGENCY.
- MH MOUNTING HEIGHT.
- S SURFACE MOUNTED.
- WP WEATHER PROOF.
- NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
- DETAIL NOTE SYMBOL - APPLIES ONLY TO DETAIL ON WHICH IS SHOWN.
- EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.
- EQUIPMENT REFERENCE SYMBOL. NO ELECTRICAL CONNECTION REQUIRED.
- ROOM NUMBER.
- DETAIL SYMBOL. DETAIL "B" SHOWN ON SHEET E2.
- SECTION SYMBOL. SECTION "A" DESIGNATION, SHOWN ON SHEET E1.
- CONNECTION, NEW TO EXISTING.
- UP TO SYMBOL. UP TO 'TD1', SHOWN ON FLOOR ABOVE.
- 1 HOUR FIRE PROTECTION. SEE SPECIFICATION FOR PENETRATION DETAILS.
- 2 HOUR FIRE PROTECTION. SEE SPECIFICATION FOR PENETRATION DETAILS.
- 3 HOUR FIRE PROTECTION. SEE SPECIFICATION FOR PENETRATION DETAILS.
- ITEM TO BE REMOVED.
- EXISTING TO REMAIN.
- NEW ITEM.

ELECTRICAL LEGEND

- ELECTRICAL CONNECTION REQUIRED.
- EXIT LIGHTING FIXTURE. ARROWS AS INDICATED. INTEGRAL BATTERY BACKUP.
- H1 B1 LIGHTING FIXTURE. CAPITAL LETTER DENOTES FIXTURES TYPE. LOWER CASE LETTER DENOTES SWITCHING ARRANGEMENT.
- H1 B1 LIGHTING FIXTURE WITH INTEGRAL BATTERY BACKUP.
- W WIRE RUN IN SURFACE RACEWAY.
- NL WIRE & CONDUIT FOR NIGHT LIGHT CIRCUITRY.
- EM WIRE & CONDUIT FOR EMERGENCY CIRCUITRY.
- E EXISTING WIRE & CONDUIT.
- A-1&2 EACH ARROWHEAD REPRESENTS ONE COMPLETE CIRCUIT. CAPITAL LETTER DENOTES PANEL; NUMBER DENOTES CIRCUIT.
- WIRE & CONDUIT IN WALL OR ABOVE CEILING
- WIRE & CONDUIT UNDERGROUND
- JUNCTION BOX.
- DASHED SYMBOL INDICATES THAT PARTICULAR OUTLET OR DEVICE TO BE REMOVED AND CIRCUITRY MADE CONTINUOUS WHERE REQUIRED.
- EXISTING OUTLET OR DEVICE TO REMAIN, MAINTAIN EXISTING CIRCUITRY.
- 20A-125V SINGLE RECEPTACLE, NEMA 5-20R (18" M.H.).
- 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (18" M.H.).
- 20A-125V DUPLEX RECEPTACLE WITH INTEGRAL USB CHARGING PORTS (1 USB 'A', 1 USB 'C' PORT), NEMA 5-20R (18" M.H.), USB TYPE A-C CHARGING PORTS WITH MINIMUM 5 AMPS COMBINED CHARGING POWER.
- SPECIAL PURPOSE RECEPTACLE. REFER TO NOTE ON PLAN.
- 20A-125V DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R (18" M.H.) TWO-GANG ASSEMBLY. D = DOUBLE DUPLEX.
- 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, (46" M.H.) UNLESS OTHERWISE INDICATED. D = DOUBLE DUPLEX.
- 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER (18" M.H.).
- 20A-125V TAMPERPROOF RECEPTACLE, NEMA 5-20R, (18" M.H.).
- 20A-125V WEATHERPROOF DUPLEX RECEPTACLE, NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER (18" M.H.), WITH HUBBELL #WP28M CAST ALUMINUM "WHILE-IN-USE" COVER.
- 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, IN PEDESTAL. REFER TO NOTE ON PLAN.
- 20A-125V/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-30R, (18" M.H.).
- 30A-125V/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-30R, (18" M.H.).
- 50A-125V/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-50R (18" M.H.).

ELECTRICAL INDEX OF DRAWINGS

- SHEET DRAWING TITLE
- E-001 LEGENDS, SPECS. AND INDEX
- E-002 LIGHTING FIXTURE AND MOTOR/STATER SCHEDULES
- E-101 SITE PLAN NEW/DEMO
- E-201 NEW LIGHTING PLAN
- E-301 NEW POWER AND SYSTEMS PLAN
- E-400 SINGLE LINE DIAGRAM
- E-401 PANEL SCHEDULES

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STATE OF OHIO

JEFFREY D. ZELINSKI
63822

REGISTERED PROFESSIONAL ENGINEER

JEFFREY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2027

REVISIONS :

Revision	Date	Description
1	09/15/2025	
2		
3		
4		
5		
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9		
10		

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1	1	09/15/2025
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LEGENDS, SPECS. AND INDEX

E-001

LIGHTING CONTROLS SEQUENCE OF OPERATION

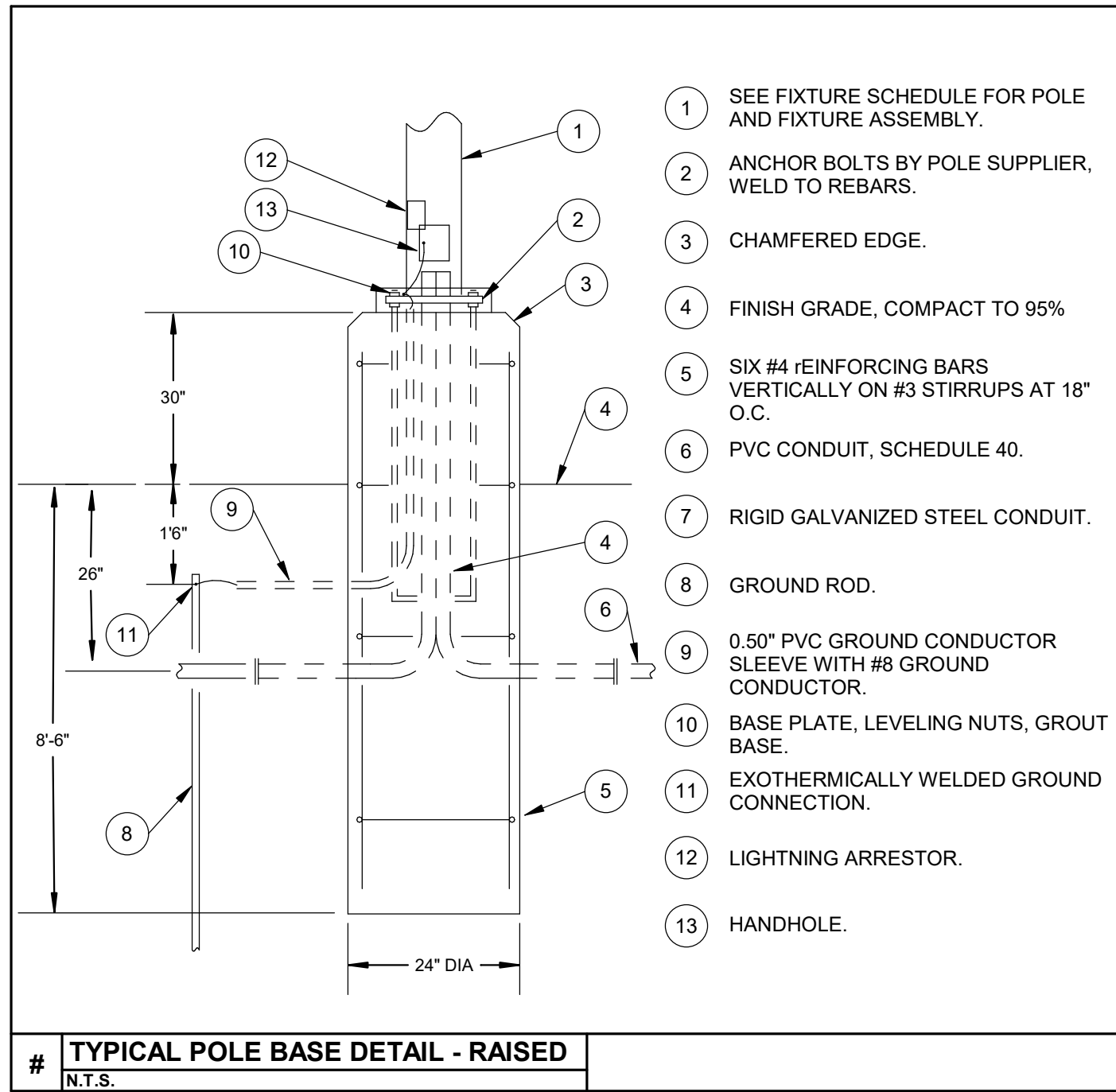
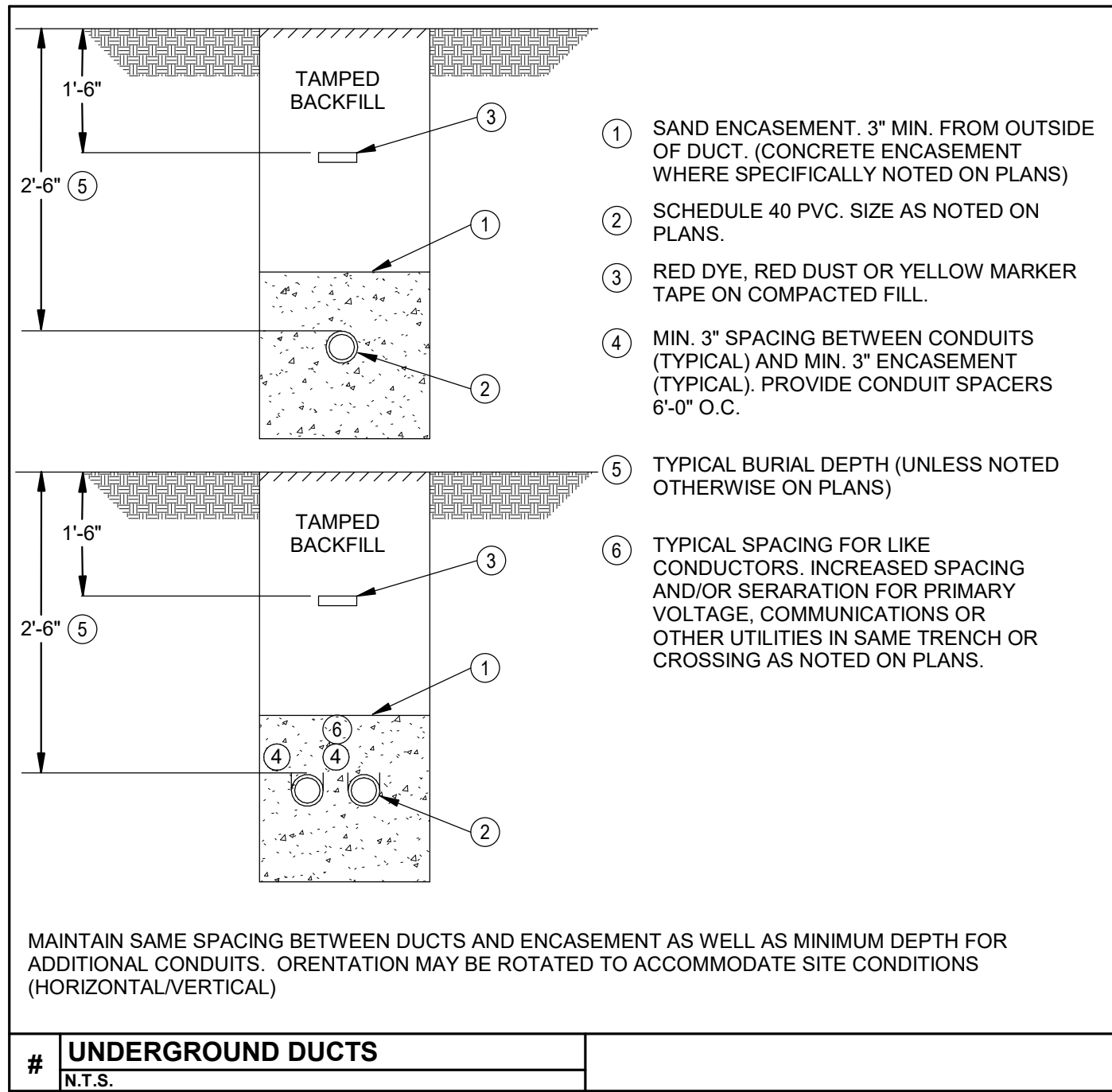
SPACE TYPE OR ROOM	OCCUPANCY SENSOR		TIME CLOCK		WALL SWITCH		DAYLIGHT SENSOR		INTEGRATION POINTS		SEE NOTE											
	VACANCY MODE (MANUAL ON)	OCCUPANCY MODE (AUTO ON)	SENSOR TIME OUT PERIOD (IN MINUTES)	HIGH/LOW OPERATION: OCCUPIED: 100% / VACANT: 30%	SCHEDULED ON AT	SCHEDULED OFF AT	OCCUPIED TIME START	UNOCCUPIED TIME START	AFTER HOURS OVERRIDE SWITCH (2 HOUR)	ON / OFF ONLY		DIMMER SWITCH	KEY SWITCH	SCENE SWITCH	GRAPHICAL WALL STATION	INDOOR - ON / OFF ONLY	INDOOR - DIMMING	LIGHT LEVEL MAINTAINED AT (IN FOOT CANDLES @ 5' A.F.F.)	EXTERIOR PHOTOCELL - ON/OFF	OCCUPANCY STATUS - (BINARY INPUT - READ ONLY) (0=VACANT, 1=OCCUPIED)	DIMMING OUTPUT LEVEL (ANALOG VALUE - READWRITE - 0-100%)	RELAY STATUS (BINARY VALUE - READWRITE - ON/OFF)
DENTAL	•										•						50					
CORRIDOR		•	20																			
TOILET		•	10																			
LAUNDRY	•		15																			
CLASSROOM	•		15								•						50					
STORAGE/CLOSET		•	10																			
ELECTRICAL/MECH										•												
SURGICAL TECH LAB	•		15														50					
NURSING LAB	•		15								•						50					
EXERCISE LAB	•		15								•				•		50					
CONFERENCE	•		10								•											
EXTERIOR LIGHTS																						1

- NOTES:
- PROGRAM EXTERIOR LIGHTING FOR PHOTO CELL ON/OFF CONTROL.
 -
 -

LIGHTING FIXTURE SCHEDULE

FIXTURE SYMBOL	LUMINAIRE				FIXTURE VOLTAGE	MANUFACTURER & CATALOG NO.	OTHER ACCEPTABLE MANUFACTURES	DIFFUSING MEDIA	TRIM COLOR				MOUNTED	SIZE			SEE NOTES
	LED	TYPE	LOW VOLTAGE	WATTS / FIXTURE					WHITE	BLACK	ALUMINUM	BRONZE		S - SURFACE, R - RECESSED, SM - STEM MTD, WM - WALL MTD, C - CHAIN MTD, UC - UNDER CAB, CS - CLG. SURF.	WIDTH	LENGTH	DEPTH
B1	•			30	3900 LUMENS/ 4000K	120	COLUMBIA #CBT22-LSCS	LITHONIA, DAYBRITE, COOPER	MATTE WHITE LENS	•			R (GRID)	24	24	2	1
B2	•			35	5000 LUMENS/ 4000K	120	COLUMBIA #CBT24-LSCS	LITHONIA, DAYBRITE, COOPER	MATTE WHITE LENS	•			R (GRID)	24	48	2	1
B2E	•			35	5000 LUMENS/ 4000K	120	COLUMBIA #CBT24-LSCS-ELL10	LITHONIA, DAYBRITE, COOPER	MATTE WHITE LENS	•			R (GRID)	24	48	2	1
C1	•			30	4000 LUMENS/ 4000K	120	COLUMBIA #LCS4-35HL-EDV-CSW64	LITHONIA, DAYBRITE, COOPER	STRIP LIGHT/WIRE GUARD	•			CS	3	48	3	
F1	•			20	2000 LUMENS/ 4000K	120	PRESCOLITE #LFR-6RD	LITHONIA, HALO, LIGHTOLIER	SEMI-SPECULAR	•			R			7	6
F1E	•			20	2000 LUMENS/ 4000K	120	PRESCOLITE #LFR-6RD	LITHONIA, HALO, LIGHTOLIER	SEMI-SPECULAR	•			R				2
F2	•			20	2000 LUMENS/ 4000K	120	PRESCOLITE #LFR-6RD	LITHONIA, HALO, LIGHTOLIER	SEMI-SPECULAR	•			R			7	6
F2E	•			20	2000 LUMENS/ 4000K	120	PRESCOLITE #LFR-6RD	LITHONIA, HALO, LIGHTOLIER	SEMI-SPECULAR	•			R			7	6
OR1	•			27	5000 LUMENS/ 4000K	120	BOVIE #MI-750			•			CS				5
K1	•			50		120	HUBBELL #TRF2-24L-50-4K7-3-UNV-DBS-PC	LUMARK, LITHONIA, GARDCO	CUTOFF LENS		•		WM				
PL1	•			150		480	BEST LIGHTING PRODUCTS #MPALDSR 242115LPR	HIGH 5 LED	CUTOFF, ADJUSTABLE		•		20H 5" SQ. POLE + ARM				3,4,6
X1	•			4		120	COMPASS #CER	SURE-LITES, LITHONIA, EXITRONICS	RED LETTERS ON WHITE EXIT WITH INTEGRAL BATTERY	•							

- SCHEDULE NOTES:
- LUMEN AND COLOR SELECTABLE. SET AT 3500K AND MEDIUM LUMEN OUTPUT.
 - SAME AS 'NON-E' FIXTURE TYPE BUT WITH EMERGENCY BATTERY BACKUP.
 - FIXTURE AND POLE SHALL MATCH EXISTING SITE LIGHTING. E.C. SHALL FIELD VERIFY FIXTURE VOLTAGE.
 - 5" SQUARE STEEL POLE, SHALL HAVE PROVISIONS FOR CAMERA MOUNTING 15'-0".
 - SURGICAL PROCEDURE LIGHT FURNISHED/INSTALLED BY E.C. MANUFACTURED BY MEDICAL ILLUMINATION #XLDP-SC-CR20. PHONE #(800) 831-1222.
 - ADJUSTABLE LUMEN OUTPUT, COLOR TEMP. AND DISTRIBUTION.



MOTORS, STARTERS, DISCONNECTS & CONTROLS

MOTOR NUMBER	CIRCUIT NUMBER	NAMEPLATE	MOTOR					STARTERS					DISCONNECT MEANS					CONTROL			FEEDER																	
			CHARACTERISTICS					TYPE					LOCATION					TYPE					LOCATION															
			HP (KVA OR FLA)	120V-1PH	208V-3PH	240V-1PH	480V-3PH	LOCATION	NEMA SIZE	MANUAL	MAGNETIC	BUILT-IN MOTOR OIL	VFD	ECM	NEAR MOTOR	MOTOR CONT. CNTR.	EQUIP. CONT. PANEL	ROOM NUMBER	SEE NOTE	DISC. SWITCH	MANUAL STARTER	RECEPTACLE	BREAKER	FUSIBLE	NEAR MOTOR	MOTOR CONT. PANEL	EQUIP. CONT. PANEL	PANELBOARD	SEE NOTE	FURNISHED BY	INTERLOCK W/ DAMPER BY E.C.	MANUAL AT STARTER	INTEGRAL W/ EQUIP.	BY H.C.	H.O.A. CONTROLLER*	NO. OF CONDUCTORS	WIRE SIZE	GND. SIZE
		RTU-1	144 MCA/150 MOCP				• ROOF											•					•				EC						3	3/0	6	2	1	
		ATU 1-01	9.8 KW				• CLASSROOM 620											•							•		HC						3	12	12	.5		
		ATU 1-02	9.6 KW				• CLASSROOM 619											•							•		HC						3	12	12	.5		
		ATU 1-03	9.6 KW				• CLASSROOM 617											•							•		HC						3	12	12	.5		
		ATU 1-04	9.6 KW				• CLASSROOM 616											•							•		HC						3	12	12	.5		
		ATU 1-05	12.5 KW				• DENTAL 615											•							•		HC						3	10	10	.75		
		ATU 1-06	12.5 KW				• SURGICAL TECH. 601											•							•		HC						3	12	12	.5		
		ATU 1-07	13.8 KW				• PRE-NURSE LAB 605											•							•		HC						3	12	12	.5		
		ATU 1-08	13.8 KW				• PRE-NURSE LAB 606											•							•		HC						3	12	12	.5		
		ATU 1-09	13.8 KW				• PRE-NURSE LAB 610											•							•		HC						3	12	12	.5		
		ATU 1-10	16.6 KW				• EX. SCIENCE 611											•							•		HC						3	12	12	.5		
		ATU 1-11	2.9 KW				• CONFERENCE 613											•							•		HC						3	8	10	.75		
		ATU 1-12	4.5 KW				• STORAGE 618											•							•		HC						2	12	12	.5		
		ATU 1-13	3.1 KW				• PRE-NURSE LAB 606											•							•		HC						2	12	12	.5		
		ATU 1-14	1.4 KW				• JAN. CLOSET 618											•							•		HC											
		ATU 1-15	3.5 KW				• SURGICAL TECH. 601											•							•		HC											
		ATU 1-16F	5 KW				• VESTIBULE 614											•							•		HC						3	12	12	.5	2	
EF-1	EXH. FAN 1	1/10 HP		•			ROOF					•					HC	•						•			HC	•					2	12	12	.5		
EF-2	EXH. FAN 2	1/10 HP		•			ROOF					•					HC	•						•			HC	•					2	12	12	.5		
	H.W. RECIRC. PUMP	1/10 HP		•			JANITOR CLOSET		•		•						EC	•						•			EC					2	12	12	.5	3		

- * REFER TO HOA CONTROLLER DETAIL ON HVAC DRAWING FOR WIRING OF AUX POWER REQUIREMENTS.
- NOTES:
- PROVIDE FULL 200 AMP FEEDER TO FUSIBLE DISCONNECT AT RTU. FUSE AND FEED TO UNIT PER MANUFACTURER.
 - PROVIDE 20A-277V FEED TO FAN MOTOR IN ADDITION TO 480V FEED TO HEATING ELEMENT.
 - PROVIDE STARTER FOR CONTROL OF PUMP VIA IMMERSION STAT (P.C.) AND TIMECLOCK (H.C.). COORDINATE REQUIREMENTS WITH P.C. & H.C. UTILIZE CIRCUIT FOR WATER HEATER TO POWER PUMP.
 -
 -

STATE OF OHIO

JEFFREY D. ZELINSKI

63822

REGISTERED PROFESSIONAL ELECTRICAL ENGINEER

JEFFREY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2027

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DRAWN BY: DAC
DATE: 09/11/2025

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LIGHTING FIXTURE AND MOTOR/STATER SCHEDULES

E-002

GENERAL NOTES

- A. DENTAL, PRE-NURSING AND SURGICAL TECH. LABS ARE SIMULATION/TEACHING LAB ENVIRONMENTS NOT TO BE UTILIZED FOR HUMAN PATIENT CARE. THESE SPACES ARE NOT DESIGNED/INTENDED TO COMPLY WITH REQUIREMENTS OF NEC ARTICLE 517 (IE. NO HOSPITAL GRADE WIRING DEVICES OR REDUNDANT GROUNDING SYSTEM REQUIRED).
- B. REFER TO TECHNOLOGY PLANS FOR REQUIREMENTS FOR BACKBOXES, RACEWAYS, CABLE TRAY, LADDER RACK, GROUNDING, BACKBOARDS, SLEEVES, ETC. COORDINATE RECEPTACLE LOCATIONS ADJACENT TO CORRESPONDING TECHNOLOGY OUTLETS.

CONSTRUCTION NOTES

1. PROVIDE 20A-120V POWER CONNECTION TO SIMULATION HEAD WALL UNIT ABOVE PATIENT BED. COORDINATE WALL ROUGH-IN LOCATION WITH ARCHITECT.
2. PROVIDE 20A-120V POWER CONNECTION TO SIMULATION DENTAL CASEWORK. COORDINATE FLOOR ROUGH-IN LOCATION WITH ARCHITECT.
3. COORDINATE ROUGH-IN LOCATION FOR SIMULATION DENTAL CHAIR. PEDestal RECEPTACLE WITH ARCHITECT.
4. PROVIDE 20A-120V POWER CONNECTIONS TO SIMULATION DENTAL CASEWORK (RECEPTACLE EXAM LIGHT AND X-RAY). COORDINATE FLOOR ROUGH-IN WITH ARCHITECT.
5. ALL RECEPTACLES ON PATIENT HEADWALL SHALL BE GFCI TYPE.
6. ALL RECEPTACLES AT DENTAL STATIONS AND COUNTERTOP ADJACENT TO SINKS SHALL BE GFCI TYPE.
7. COORDINATE RECEPTACLE HEIGHT AND LOCATION FOR SINK CONTROLS WITH EQUIPMENT SUPPLIER. (20" M.H., HORIZONTAL ORIENTATION). FEED RECEPTACLES FROM GFCI BREAKER.
8. COORDINATE LOCATION FOR RECEPTACLE FOR WATER COLD BOTTLE FILLER WITH P.C. FEED THRU FROM ADJACENT GFCI RECEPTACLE.
9. PROVIDE RED MUSHROOM HEAD MAINTAINED CONTACT PUSHBUTTON (120V) FOR CONTROL OF GAS SOLENOID VALVE IN DENTAL LAB. VALVE POWERED OPEN. COORDINATE WIRING REQUIREMENTS WITH P.C.
10. EXTERNAL SPD ADJACENT TO PANEL. CONNECT TO 30A/3P BREAKER.
11. PROVIDE NEMA 15-30R RECEPTACLE AND DEDICATED 30A-120V CIRCUIT FOR DATA RACK. COORDINATE LOCATION WITH TECHNOLOGY.
12. PROVIDE 120V STARTER FOR CONTROL OF HOT WATER RECIRC. PUMP. COORDINATE CONTROL WIRING WITH P.C. & H.C. (THERMOSTAT & TIMELOCK CONTROLS).
13. COORDINATE POWER CONNECTIONS TO DENTAL AIR AND DENTAL VACUUM WITH EQUIPMENT VENDOR.
14. COORDINATE RECEPTACLE LOCATIONS AND MOUNTING HEIGHTS WITH DENTAL CASEWORK FOR DENTAL EQUIPMENT STERILIZERS.
15. COORDINATE DEDICATED RECEPTACLE LOCATION FOR PANORAMIC X-RAY WITH ARCHITECT/OWNER.



JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2027

REVISIONS:

09 15 2026

PRINTINGS:

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CENTER
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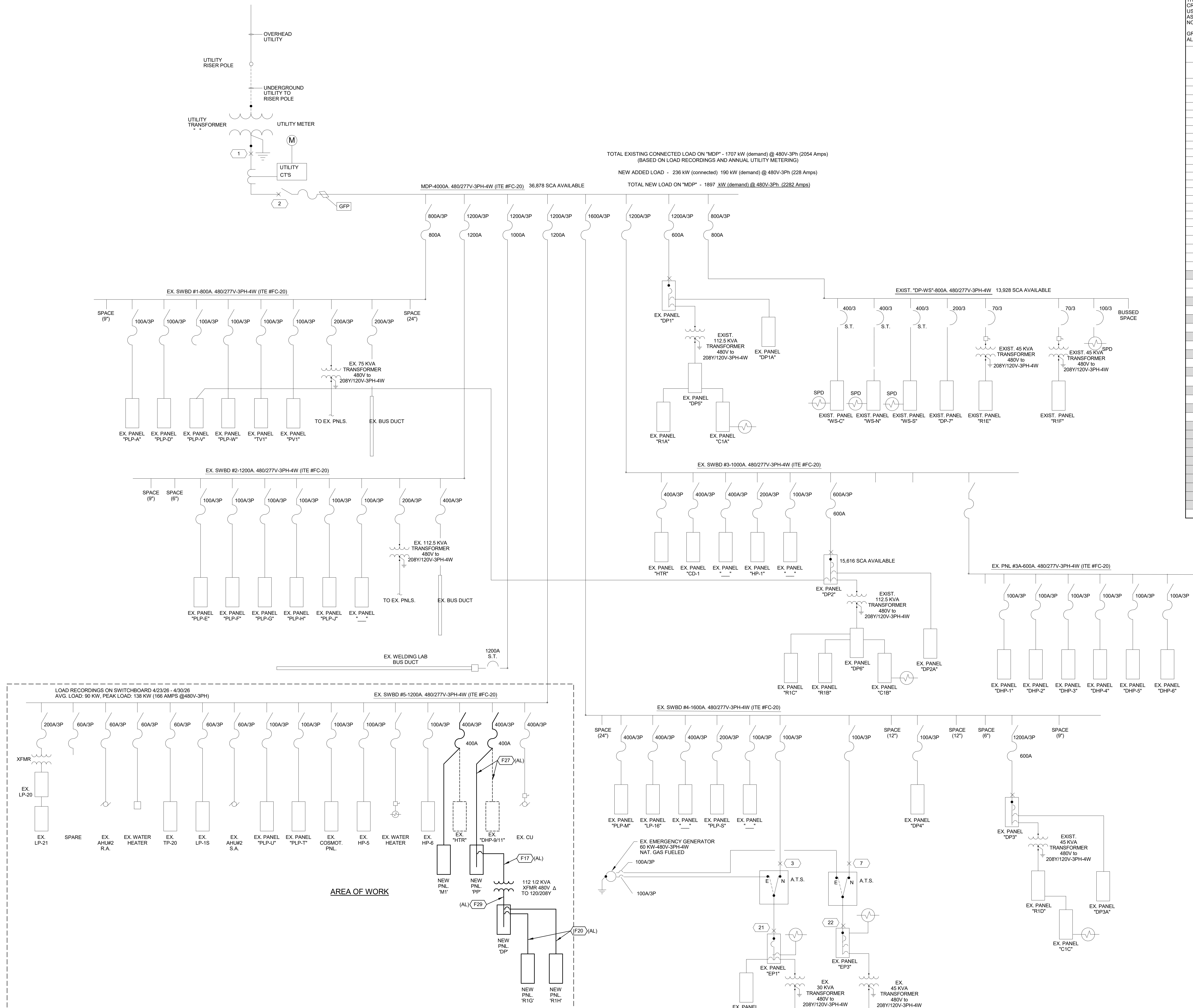
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NEW POWER AND
SYSTEMS PLAN

E-301



SINGLELINE DIAGRAM

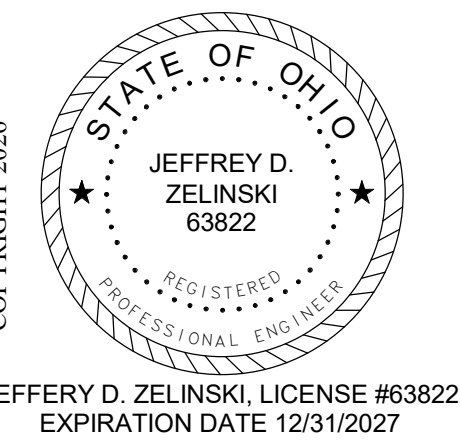
SCALE: N.T.S.

FEEDER SCHEDULE

THE CONDUIT SIZING AND PARAMETER ON THIS FEEDER SCHEDULE WAS CREATED USING THWN AND THHN WIRE AS THE BASIS. IF THW OR RHW IS USED, THE ELECTRICAL CONTRACTOR SHALL INCREASE THE CONDUIT SIZE AS DIRECTED BY THE NEC ACCORDINGLY. THIS IS A TYPICAL SCHEDULE. NOT ALL TYPES ARE NECESSARILY INDICATED ON THE DRAWINGS.

GROUND CONDUCTORS SIZED FOR COPPER, INCREASE GROUND SIZE FOR ALUMINUM.

(COPPER CONDUCTORS USED UNLESS OTHERWISE INDICATED)				
CODE	FEEDER SIZE	CONDUIT SIZE	AMPS (CU)	AMPS (AL)
F1	(3)#6, (1)#8G.	1"	55 AMP	NA
F2	(4)#6, (1)#8G.	1.25"	55 AMP	NA
F3	(3)#4, (1)#6G.	1"	70 AMP	NA
F4	(4)#4, (1)#6G.	1.25"	70 AMP	NA
F5	(3)#3, (1)#6G.	1.25"	85 AMP	NA
F6	(4)#3, (1)#6G.	1.25"	85 AMP	NA
F7	(3)#2, (1)#6G.	1.25"	95 AMP	NA
F8	(4)#2, (1)#6G.	1.25"	95 AMP	NA
F9	(3)#1, (1)#6G.	1.25"	130 AMP	NA
F10	(4)#1, (1)#6G.	1.5"	130 AMP	NA
F11	(3)#1/0, (1)#6G.	1.5"	150 AMP	120 AMP
F12	(4)#1/0, (1)#6G.	1.5"	150 AMP	120 AMP
F13	(3)#2/0, (1)#6G.	2"	175 AMP	135 AMP
F14	(4)#2/0, (1)#6G.	2"	175 AMP	135 AMP
F15	(3)#3/0, (1)#4G.	2"	200 AMP	155 AMP
F16	(4)#3/0, (1)#4G.	2"	200 AMP	155 AMP
F17	(3)#4/0, (1)#4G.	2"	230 AMP	180 AMP
F18	(4)#4/0, (1)#4G.	2"	230 AMP	180 AMP
F19	(3)#250KCMIL, (1)#4G.	2.5"	255 AMP	205 AMP
F20	(4)#250KCMIL, (1)#4G.	2.5"	255 AMP	205 AMP
F21	(3)#350KCMIL, (1)#3G.	2.5"	310 AMP	250 AMP
F22	(4)#350KCMIL, (1)#3G.	3"	310 AMP	250 AMP
F23	(3)#500KCMIL, (1)#3G.	3"	380 AMP	310 AMP
F24	(4)#500KCMIL, (1)#3G.	3.5"	380 AMP	310 AMP
F25	(4)#500KCMIL	3.5"	380 AMP	310 AMP
F26	(3)#600KCMIL, (1)#2G.	4"	420 AMP	340 AMP
F27	(4)#600KCMIL, (1)#2G.	4"	420 AMP	340 AMP
F28 *	(4)#600KCMIL	4"	420 AMP	340 AMP
F29 *	(8)#350KCMIL, (2)#1G.	2-3"	620 AMP	500 AMP
F30 *	(8)#350KCMIL	2-3"	620 AMP	500 AMP
F31 *	(8)#600KCMIL, (2)#1/0G.	2-4"	840 AMP	680 AMP
F32 *	(8)#600KCMIL	2-4"	840 AMP	680 AMP
F33 *	(12)#500KCMIL, (3)#2/0G.	3-4"	1140 AMP	930 AMP
F34 *	(12)#500KCMIL	3-3.5"	1140 AMP	930 AMP
F35 *	(12)#600KCMIL, (3)#3/0G.	3-4"	1260 AMP	1020 AMP
F36 *	(12)#600KCMIL	3-4"	1260 AMP	1020 AMP
F37 *	(16)#350KCMIL, (4)#3/0G.	4-3"	1240 AMP	1000 AMP
F38 *	(16)#350KCMIL	4-3"	1240 AMP	1000 AMP
F39 *	(16)#500KCMIL, (4)#3/0G.	4-3.5"	1520 AMP	1240 AMP
F40 *	(16)#500KCMIL	4-3.5"	1520 AMP	1240 AMP
F41 *	(16)#600KCMIL, (4)#4/0G.	4-4"	1680 AMP	1360 AMP
F42 *	(16)#600KCMIL	4-4"	1680 AMP	1360 AMP
F43 *	(20)#500KCMIL	5-3.5"	1900 AMP	1550 AMP
F44 *	(20)#600KCMIL	5-4"	2100 AMP	1700 AMP
F45 *	(24)#500KCMIL	6-3.5"	2280 AMP	1860 AMP
F46 *	(24)#600KCMIL	6-4"	2520 AMP	2040 AMP
F47 *	(28)#500KCMIL	7-3.5"	2660 AMP	2170 AMP
F48 *	(28)#600KCMIL	7-4"	2940 AMP	2380 AMP
F49 *	(32)#500KCMIL	8-3.5"	3040 AMP	2480 AMP
F50 *	(32)#600KCMIL	8-4"	3360 AMP	2720 AMP
F51 *	(32)#750KCMIL	8-4"	3800 AMP	3080 AMP
*	PARALLEL SETS OF CONDUCTORS IN SEPARATE CONDUITS			



REVISIONS :

Revision	Date	Description
1	09/15/2025	Issd / Permit Set

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MEDICAL ACADEMY
3525 OH-48 Lebanon, OH 45036

PROJECT NO: **#263306.00**
CHECKED BY: **TCR**
DRAWN BY: **DAC**
DATE: **09/15/2025**



SINGLE LINE DIAGRAM

E-400

Branch Panel: M1					Construction: New			System: Normal Power				
LOCATION: ELEC. 800A					MOUNTING: Surface			A.I.C. RATING 22 K				
SUPPLY FROM:					ENCLOSURE: Type 1			MAINS TYPE: M.L.O				
VOLTAGE: 480/277 Wye-3-4					MCB RATING: 1 A			MAINS RATING: 400 A				
CKT	Description	Trip	Poles	Note	A	B	C	Note	Poles	Trip	Description	CKT
1	ATU 1-01	20 A	3		3500 VA 3467 VA				3	20 A	ATU 1-02	2
3	---	---	---			3500 VA 3467 VA	3500 VA 3467 VA		---	---	---	4
5	---	---	---						---	---	---	6
7	ATU 1-03	20 A	3		3467 VA 3467 VA				3	20 A	ATU 1-04	8
9	---	---	---			3467 VA 3467 VA	3467 VA 3467 VA		---	---	---	10
11	---	---	---						---	---	---	12
13	AHU 1-05	20 A	3		5700 VA 4133 VA				3	20 A	ATU 1-06	14
15	---	---	---			5700 VA 4133 VA	5700 VA 4133 VA		---	---	---	16
17	---	---	---						---	---	---	18
19	ATU 1-07	20 A	3		4367 VA 4367 VA				3	20 A	ATU 1-08	20
21	---	---	---			4367 VA 4367 VA	4367 VA 4367 VA		---	---	---	22
23	---	---	---						---	---	---	24
25	ATU 1-09	20 A	3		4367 VA 8567 VA				3	20 A	ATU 1-10	26
27	---	---	---			4367 VA 8567 VA	4367 VA 8567 VA		---	---	---	28
29	---	---	---						---	---	---	30
31	ATU 1-11	20 A	1		1000 VA 1000 VA				1	20 A	ATU 1-12	32
33	ATU 1-13	20 A	1			2100 VA 3200 VA	2100 VA 3200 VA		3	200 A	AHU-1	34
35	ATU 1-16F	15 A	3				1667 VA 32000..		---	---	---	36
37	---	---	---		1667 VA 32000..				---	---	---	38
39	---	---	---			1667 VA 5000 VA			1	15 A	ATU-16F	40
41	---	---	---						---	---	---	42
43	---	---	---						---	---	---	44
45	---	---	---						---	---	---	46
47	---	---	---		0 VA				3	30 A	SPD	48
49	---	---	---			0 VA			---	---	---	50
51	---	---	---				0 VA		---	---	---	52
53	---	---	---					0 VA	---	---	---	54
Total Load:					81067 VA	86167 VA	79067 VA					
NOTES:												
Load Classification		Connected Load	Demand Factor	Estimated...	Panel Totals							
Motor		96000 VA	80.00%	76800 VA								
Other		0 VA	0.00%	0 VA								
Power		150300 VA	100.00%	150300 VA								
					Total Conn. Load: 246300 VA							
					Total Est. Demand: 227100 VA							
					Total Conn. Current: 296 A							
					Total Est. Demand Current: 273 A							

Branch Panel: DP

LOCATION:

SUPPLY FROM: 112.5 kVA, 277 V/48...

VOLTAGE: 120/208 Wye-3-4

Construction: New

MOUNTING: Surface

ENCLOSURE: Type 1

MCB RATING: 400 A

System: Normal Power

A.I.C RATING 10 K

MAINS TYPE: M.C.B

MAINS RATING: 400 A

CKT	Description	Trip	Poles	Note	A	B	C	Note	Poles	Trip	Description	CKT
1	Panel R1G	200 A	3		17555... 10076...				3	200 A	Panel R1H	2
3	--	--	--			15775 VA	7320 VA		--	--	--	4
5	--	--	--					15418... 11401...	--	--	--	6
9	Spare	100 A	3		0 VA	0 VA			3	100 A	Spare	8
9	--	--	--			0 VA	0 VA		--	--	--	10
11	--	--	--					0 VA	0 VA	--	--	12
13												13
15												16
17												18
19												20
21												22
23												24
25												26
27												28
29												30
Total Load:					27631 VA	23095 VA	26819 VA					

NOTES:

Light Classification	Connected Load	Demand Factor	Estimated...	Panel Totals
Lighting	9939 VA	100.00%	9939 VA	Total Conn. Load: 77545 VA Total Est. Demand: 52049 VA Total Conn. Current: 215 A Total Est. Demand Current: 144 A

Motor	2000 VA	80.00%	1600 VA	
Other	4700 VA	100.00%	4700 VA	
Receptacles	720 VA	100.00%	720 VA	
Power	60192 VA	58.31%	35096 VA	

Branch Panel: PP					Construction: New			System: Normal Power				
LOCATION: SUPPLY FROM: VOLTAGE: 480/277 Wye-3-4					MOUNTING: Surface ENCLOSURE: Type 1 MCB RATING: 1 A			A.L.C RATING 35 K MAINS TYPE: M.L.O MAINS RATING: 400 A				
CKT	Description	Trip	Poles	Note	A	B	C	Note	Poles	Trip	Description	CKT
1	XFMR DP	175 A	3	27631...	0 VA				3	200 A	Spare	2
3	--	--	--			23095 VA	0 VA		--	--	--	4
5	--	--	--				26819...	0 VA	--	--	--	6
7	--	--	--		0 VA				3	100 A	Spare	8
9	--	--	--			0 VA			--	--	--	10
11	--	--	--					0 VA	--	--	--	12
13	--	--	--						--	--	--	14
15	--	--	--									16
17	--	--	--									18
19	--	--	--									20
21	--	--	--									22
23	--	--	--									24
25	--	--	--									26
27	--	--	--									28
29	--	--	--									30
31	--	--	--									32
33	--	--	--									34
35	--	--	--									36
37	--	--	--									38
39	--	--	--									40
41	--	--	--									42
Total Load:					27631 VA	23095 VA	26819 VA					
NOTES:												
Load Classification		Connected Load		Demand Factor		Estimated...		Panel Totals				
Lighting		9939 VA		100.00%		9939 VA						
Motor		2000 VA		80.00%		1600 VA		Total Conn. Load: 77545 VA				
Other		4700 VA		100.00%		4700 VA		Total Est. Demand: 52049 VA				
Power		720 VA		100.00%		720 VA		Total Conn. Current: 93 A				
Receptacles		60192 VA		58.31%		35096 VA		Total Est. Demand Current: 63 A				

Branch Panel: R1G				Construction: New				System: Normal Power						
LOCATION: ELEC. 600A SUPPLY FROM: DP VOLTAGE: 120/208 Wye-3-4				MOUNTING: Surface ENCLOSURE: Type 1 MCB RATING: 1 A				A.I.C RATING 10 K MAINS TYPE: M.L.O MAINS RATING: 200 A						
CKT	Description	Trip	Poles	A		B		C		Note	Poles	Trip	Description	CKT
1	Receptacles	20 A	1	900 VA	1260 VA						1	20 A	Receptacles	2
3	Receptacles	20 A	1			1260 VA	900 VA				1	20 A	Receptacles	4
5	Receptacles	20 A	1					900 VA	1260 VA		1	20 A	Receptacles	6
7	Motor	20 A	1	1000 VA	1440 VA						1	20 A	Receptacles	8
9	Receptacles	20 A	1			1440 VA	900 VA				1	20 A	Receptacles	10
11	Receptacles	20 A	1					1800 VA	1800 VA		1	20 A	Receptacles	12
13	Receptacles	20 A	1	1800 VA	1800 VA						1	20 A	Receptacles	14
15	Receptacles	20 A	1			1800 VA	1800 VA				1	20 A	Receptacles	16
17	Receptacles	20 A	1					1800 VA	900 VA		1	20 A	Receptacles	18
19	Receptacles	20 A	1								1	20 A	Receptacles	20
21	Receptacles	20 A	1	1620 VA	1800 VA						1	20 A	Receptacles	22
23	Receptacles	20 A	1			1440 VA	900 VA				1	20 A	Receptacles	24
25	Receptacles	20 A	1	1800 VA	1260 VA						1	20 A	Receptacles	26
27	Receptacles	20 A	1			1080 VA	720 VA				1	20 A	Receptacles	28
29	Other	20 A	1					100 VA	100 VA		1	20 A	Other	30
31	Receptacles	20 A	1	540 VA	360 VA						1	20 A	Receptacles	32
33	Receptacles	20 A	1			720 VA	180 VA				1	20 A	Receptacles	34
35	Lighting	20 A	1					650 VA	1077 VA		1	20 A	Lighting	36
37	Lighting	20 A	1	1077 VA	45 VA						1	20 A	Lighting	38
39	Lighting	20 A	1			1015 VA	1620 VA				1	20 A	Lighting	40
41	Receptacles	20 A	1					720 VA	720 VA		1	20 A	Receptacles	42
43	Receptacles	20 A	1	720 VA	180 VA						1	20 A	Receptacles	44
45	Spare	20 A	1			0 VA	0 VA				1	20 A	Spare	46
47	Spare	20 A	1					0 VA	0 VA		1	20 A	Spare	48
49	Spare	20 A	1	0 VA	0 VA						3	20 A	Spare	50
51	Spare	20 A	1			0 VA	0 VA				--	--	--	52
53	Spare	20 A	1					0 VA	0 VA		--	--	--	54
Total Load:				17555 VA		15775 VA		15418 VA						
NOTES:														
Load Classification				Connected Load	Demand Factor	Estimated...	Panel Totals							
Lighting				5436 VA	100.00%	5436 VA								
Motor				1000 VA	80.00%	800 VA								
Other				4160 VA	100.00%	4160 VA	Total Est. Demand: 34488 VA							
Receptacles				38160 VA	63.10%	24080 VA	Total Conn. Current: 135 A							
							Total Est. Demand Current: 96 A							

Branch Panel: R1H				Construction: New				System: Normal Power							
LOCATION: ELEC. 800B SUPPLY FROM: DP VOLTAGE: 120/208 Wye-3-4				MOUNTING: Surface ENCLOSURE: Type 1 MCB RATING: 1 A				A.I.C RATING: 10 K MAINS TYPE: MLO MAINS RATING: 200 A							
CKT	Description	Trip	Poles	A		B		C		Note	Poles	Trip	Description	CKT	
1	Treadmill	20 A	1	1000 VA	1000 VA							1	20 A	Treadmill	2
3	Treadmill	20 A	1			1000 VA	900 VA					1	20 A	Receptacles	4
7	Receptacles	20 A	1					1440 VA	900 VA			1	20 A	Receptacles	6
7	Receptacles	20 A	1	1260 VA	180 VA							1	20 A	Receptacles	8
9	Motor	20 A	1			1000 VA	180 VA					1	20 A	Receptacles	10
19	Receptacles	20 A	1					180 VA	180 VA			1	20 A	Other	12
13	Other	20 A	1	180 VA	180 VA							1	20 A	Power	14
15	Receptacles	20 A	1			360 VA	180 VA					1	20 A	Other	16
17	Power	20 A	1					180 VA	1080 VA			1	20 A	Receptacles	18
19	Receptacles	20 A	1	360 VA	360 VA							1	20 A	Receptacles	20
21	Receptacles	20 A	1			360 VA	360 VA					1	20 A	Receptacles	22
23	Receptacles	20 A	1					360 VA	360 VA			1	20 A	Receptacles	24
25	Receptacles	20 A	1	360 VA	360 VA							1	20 A	Receptacles	26
27	Receptacles	20 A	1			360 VA	360 VA					1	20 A	Receptacles	28
29	Receptacles	20 A	1					360 VA	1080 VA			1	20 A	Receptacles	30
31	Receptacles	20 A	1	1080 VA	1080 VA							1	20 A	Receptacles	32
33	Lighting	20 A	1			171 VA	1740 VA					1	20 A	Lighting	34
35	Lighting	20 A	1					1165 VA	1440 VA			1	20 A	Lighting	36
37	Dental Air	30 A	2	0 VA	0 VA							2	30 A	Dental Vacuum	38
39	--	--	--			0 VA	0 VA					--	--	--	40
41	Dryer	30 A	2					2496 VA	180 VA			1	20 A	Washer	42
43	--	--	--	2496 VA	180 VA							1	20 A	Receptacles	44
45	Receptacles	20 A	1			180 VA	180 VA					1	20 A	Receptacles	46
47	Spare	20 A	1					0 VA	0 VA			1	20 A	Spare	48
49	Spare	20 A	1	0 VA	0 VA							3	30 A	SPD	50
51	Spare	20 A	1			0 VA	0 VA					--	--	--	52
53	Spare	20 A	1					0 VA	0 VA			--	--	--	54
Total Load:				10076 VA		7320 VA		11401 VA							
NOTES:															
Load Classification		Connected Load	Demand Factor	Estimated...		Panel Totals									
Lighting		4505 VA	100.00%	4505 VA											
Motor		1000 VA	80.00%	800 VA		Total Conn. Load: 28797 VA									
Other		540 VA	100.00%	540 VA		Total Est. Demand: 22581 VA									
Power		720 VA	100.00%	720 VA		Total Conn. Current: 80 A									
Receptacles		22032 VA	72.69%	16016 VA		Total Est. Demand Current: 63 A									

The diagram illustrates four types of callout symbols used in technical drawings:

- ELEVATION REFERENCE SYMBOL:** A symbol consisting of a circle divided into two halves. The top half contains the letter 'X' and is labeled 'DETAIL ID'. The bottom half contains the text 'XXX' and is labeled 'SHEET REFERENCE'. An arrow points from the symbol to the label 'DIRECTION INDICATOR'.
- KEYNOTE REFERENCE SYMBOL:** A symbol consisting of a circle divided into two halves. The top half contains the letter 'X' and is labeled 'DETAIL ID'. The bottom half contains the text 'XXX' and is labeled 'SHEET REFERENCE'. An arrow points from the symbol to the label 'KEYNOTE NUMBER'.
- CALLOUT REFERENCE SYMBOL:** A symbol consisting of a circle divided into two halves. The top half contains the letter 'X' and is labeled 'DETAIL ID'. The bottom half contains the text 'XXX' and is labeled 'SHEET REFERENCE'. An arrow points from the symbol to the label 'DIRECTION INDICATOR'.
- ACCESS CONTROL/SECURITY DOOR SURROUND CALLOUT:** A symbol consisting of a circle divided into two halves. The top half contains the letter 'X' and is labeled 'DETAIL ID'. The bottom half contains the text 'XXX' and is labeled 'SHEET REFERENCE'. An arrow points from the symbol to the label 'DIRECTION INDICATOR'.

The diagram illustrates the components of two types of tag symbols used in security systems.

SECURITY CAMERA TAG SYMBOL

The symbol is broken down as follows:

- V001**: DEVICE ID
- T-501/1**: DETAIL SHEET NUMBER / DETAIL NUMBER
- T-901/1**: CAMERA VIEW SHEET NUMBER / DETAIL NUMBER WHEN APPLICABLE

ACCESS CONTROL/SECURITY TAG SYMBOL

The symbol is broken down as follows:

- V001**: DEVICE ID
- A101**: DOOR NUMBER
- T-501/1**: DETAIL SHEET NUMBER / DETAIL NUMBER
- 123**: DOOR HARDWARE SET NUMBER

LEGEND

- A** - ACCESS CONTROL/SECURITY DOOR
- S** - SECURITY DEVICE
- V** - SECURITY CAMERA
- VE** - SECURITY CAMERA EXTERIOR

DETAILED TAG BREAKDOWN

The diagram shows how a tag symbol like **A001** is constructed from its components:

- A001** is composed of **A** (Access Control/Security Door) and **001** (Device Number).
- T-501/1** is composed of **T** (Technology/Security Sheet), **501** (Sheet Number), and **1** (Detail Number).

SYMBOL	DESCRIPTION
	JUNCTION BOX WALL MOUNTED
	JUNCTION BOX MOUNTED IN CEILING
	JUNCTION BOX MOUNTED IN FLOOR
	PULL BOX
	POWER POLE WITH DEVICES INDICATED (P-POWER, T-TELECOM, P/T-POWER AND TELECOM)
	VERTICAL CONDUIT - SIZE AND TYPE AS NOTED
	BREAK SYMBOL
	CONDUIT SLEEVE WITH BUSHINGS
	J-HOOK PATHWAY

SYMBOL	SECTION	DESCRIPTION
	275123	WALL-MOUNTED ANALOG DUAL FACE CLOCK.
	275123	WALL-MOUNTED ANALOG SINGLE FACE CLOCK.
	275123	WALL-MOUNTED SINGLE FACE PUBLIC ADDRESS IP SPEAKER WITH DIGITAL CLOCK DISPLAY, LED FLASHERS, AND TALKBACK MICROPHONE.
	275123	WALL-MOUNTED DUAL FACE PUBLIC ADDRESS IP SPEAKER WITH DIGITAL CLOCK DISPLAY, LED FLASHERS, AND TALKBACK MICROPHONE.
	275123	WALL-MOUNTED SINGLE FACE DIGITAL CLOCK DISPLAY AND LED FLASHERS.
	275123	WALL-MOUNTED DUAL FACE DIGITAL CLOCK DISPLAY AND LED FLASHERS.

SHEET NUMBER SHEET NAME

T001	TECHNOLOGY LEGEND
T002	TECHNOLOGY LEGEND
T003	TECHNOLOGY NOTES
T010	TECHNOLOGY SITE PLAN
T011	FIRST FLOOR COMPOSITE PATHWAY RCP
T101	TECHNOLOGY ENLARGED FLOOR PLAN
T201	SECURITY ENLARGED FLOOR PLAN
T401	TECH ROOM 602 ENLARGED AND ELEVATION PLANS
T501	COMPOSITE PATHWAY DETAILS
T502	DATA DETAILS
T504	AUDIO VISUAL DETAILS
T510	SECURITY DETAILS
T601	AUDIO VISUAL SCHEDULES
T602	SECURITY SCHEDULES
T603	DATA DROP SCHEDULE

SHEET NUMBER	SHEET NAME
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SYMBOL	SECTION	DESCRIPTION
	270528	WIRE MESH OR SOLID BOTTOM CABLE TRAY SYSTEM (REFER TO PLANS). 12"Wx4"D UNLESS OTHERWISE NOTED. MOUNTING HEIGHT IS TO BOTTOM OF TRAY. HEIGHT VARIES. REFER TO PLANS FOR ADDITIONAL INFORMATION.
	270528	WHEN USING A LADDER RACK CABLE TRAY SYSTEM THE "LADDER RACK. 12" WIDE UNLESS OTHERWISE NOTED."
	271500, 273123	WALL PHONE OUTLET. REFER TO THE FACEPLATE DETAILS FOR ADDITIONAL INFORMATION.
	271500, 273123	DATA OUTLET. "W" SUBSCRIPT INDICATES QUANTITY OF CABLES/JACKS REQUIRED (Z INDICATES A BLANK FACEPLATE). REFER TO THE FACEPLATE DETAILS FOR ADDITIONAL INFORMATION.
	271500	DATA CEILING OUTLET. "W" SUBSCRIPT INDICATES QUANTITY OF CABLES/JACKS REQUIRED (Z INDICATES A BLANK FACEPLATE). REFER TO FACEPLATE DETAILS FOR ADDITIONAL INFORMATION.
	271500	DATA FLOOR OUTLET. "W" SUBSCRIPT INDICATES QUANTITY OF CABLES/JACKS REQUIRED (Z INDICATES A BLANK FACEPLATE). FLOOR BOX OR POKE THROUGH SPECIFIED ON THE POWER PLANS UNLESS OTHERWISE NOTED.
	271500, 273123	CEILING MOUNTED WIRELESS ACCESS POINT CABLING LOCATION. PROVIDE WITH 15' OF CABLE COILED ABOVE THE ACCESSIBLE CEILING.
	271500, 273123	WIRELESS ACCESS POINT WALL MOUNT CABLING LOCATION. PROVIDE WITH 15' OF CABLE COILED ABOVE THE ACCESSIBLE CEILING.
	271100	TELECOM RACK ENCLOSURE - WALL MOUNTED.
	271100	TELECOM RACK FLOOR MOUNTED WITH 6 INCH VERTICAL CABLE MANAGERS
	271100	TELECOM EQUIPMENT CABINET - FREE STANDING
	271100	FIBER LIU EQUIPMENT CABINET - WALL MOUNTED
	271100	TELECOM MAIN GROUND BUS (PBB) OR TELECOM GROUND BUS (SBB)
	271300, 271500	CEILING MOUNTED CONSOLIDATION POINT
	273123	PROVIDE TELEPHONE HANDSET ASSOCIATED WITH ADJACENT FACEPLATE. (REFER TO TELEPHONE SPECIFICATIONS FOR DETAILS). "W" SUBSCRIPT INDICATES QUANTITY OF HANDSETS. NO SUBSCRIPT MEANS "1" HANDSET.

SYMBOL	SECTION	DESCRIPTION
◁AV1	274119	PRESENTATION POINT OUTLET LOCATION. REFER TO THE FACEPLATE DETAILS AND CONNECTIVITY DETAILS FOR ADDITIONAL INFORMATION.
◁AV2	274119	DISPLAY OUTLET LOCATION. REFER TO THE FACEPLATE DETAILS AND CONNECTIVITY DETAILS FOR ADDITIONAL INFORMATION. -IF P INDICATES OUTLET FOR INTERACTIVE FLAT PANEL, MOUNTED AT 60° AFF. COORDINATE WITH MOUNTING BRACKET AND ARCHITECTURAL.
◁AV3	274119	PRESENTATION POINT OUTLET LOCATION. REFER TO THE FACEPLATE DETAILS AND CONNECTIVITY DETAILS FOR ADDITIONAL INFORMATION.
◁AV4	274119	DISPLAY OUTLET LOCATION. REFER TO THE FACEPLATE DETAILS AND CONNECTIVITY DETAILS FOR ADDITIONAL INFORMATION. -IF P INDICATES OUTLET FOR INTERACTIVE FLAT PANEL, MOUNTED AT 60° AFF. COORDINATE WITH MOUNTING BRACKET AND ARCHITECTURAL.
◁AV#	274119	AUDIO/VIDEO OUTLET. REFER TO THE KEY NOTES ON FLOOR PLAN SHEET FOR OUTLET INFORMATION.
◁SR	274119	SOUND REINFORCEMENT AUDIO/VIDEO OUTLET. REFER TO THE FACEPLATE DETAILS AND CONNECTIVITY DETAILS FOR ADDITIONAL INFORMATION.
PROJ	274119	WALL-MOUNTED ULTRA SHORT THROW PROJECTOR. REFER TO THE CONNECTIVITY DETAILS FOR ADDITIONAL INFORMATION.
PROJ	274119	CEILING-MOUNTED PROJECTOR. REFER TO THE CONNECTIVITY DETAILS FOR ADDITIONAL INFORMATION.
OT		SINGLE POLE DOUBLE THROW WALL SWITCH FOR PROJECTION SCREEN.
	274119	CEILING MOUNTED ELECTRIC PROJECTION SCREEN.
IB	274119	AUDIO VISUAL CAMERA W/BROADCASTING CAPABILITIES.
	274119	DISPLAY MONITOR. "X" INDICATES SIZE OF MONITOR EQUIPPED WITH MOUNTING BRACKET. -IFP INDICATES INTERACTIVE FLAT PANEL. COORDINATE WITH ARCHITECTURAL. • INDICATES DISPLAY IS EQUIPPED WITH DIGITAL MEDIA PLAYER.
SS	274000, 274116, 274119, 275121, 275123, 275124, 275125, 275126, 275127	AV RACK ENCLOSURE - WALL MOUNTED. SUBSCRIPT (X) (G) GYM; (AG) AUX GYM; (D) DINING; (T) THEATER; (N) NATORATORIUM; (M) MUSIC; (I) INSTRUMENTAL; (V) VOCAL ROOM.
H	274000, 274116, 274119, 275121, 275123, 275124, 275125, 275126, 275127	WALL MOUNTED SPEAKER. "S" INDICATES SOUND SYSTEM. OTHER SPEAKERS INCLUDE: (PA) PUBLIC ADDRESS; (CS) CLASSROOM SOUND FIELD; (SW) SUB WOOFER. SUBSCRIPT "V" INDICATES THAT THE SPEAKER IS VOLUME CONTROLLED. SUBSCRIPT "S" INDICATES STROBE.
S	274000, 274116, 274119, 275121, 275123, 275124, 275125, 275126, 275127	CEILING MOUNTED SPEAKER. "S" INDICATES SOUND SYSTEM. OTHER SPEAKERS INCLUDE: (PA) PUBLIC ADDRESS; (CS) CLASSROOM SOUND FIELD; (SW) SUB WOOFER. SUBSCRIPT "P" INDICATES PENDANT MOUNTED. SUBSCRIPT "V" INDICATES THAT THE SPEAKER IS VOLUME CONTROLLED. SUBSCRIPT "S" INDICATES STROBE.
M	274000, 274116, 274119, 275121, 275123, 275124, 275125, 275126, 275127	WALL MOUNTED MICROPHONE OUTLET. SUBSCRIPT NUMBER INDICATES QUANTITY OF MIC OUTLETS REQUIRED. (BLANK IMPLIES ONLY ONE)
M	274000, 274116, 274119, 275121, 275123, 275124, 275125, 275126, 275127	MICROPHONE FLOOR OUTLET. SUBSCRIPT NUMBER INDICATES QUANTITY OF OUTLETS REQUIRED. (BLANK IMPLIES ONLY ONE) FLOOR BOX SPECIFIED ON THE POWER PLANS UNLESS OTHERWISE NOTED.
X	274000, 274116, 274119, 275121, 275123, 275124, 275125, 275126, 275127	HANGING MIC FROM CEILING. SUBSCRIPT (H) FOR HANGING; (A) FOR ARRAY.
DMI	274000, 274116, 274119, 275121, 275123, 275124, 275125, 275126, 275127	SOUND SYSTEM WALL MOUNTED DIGITAL MEDIA INPUT PLATE (1) HDMI, (1) USB, (1) MINI STEREO, (1) DISPLAY PORT.
HDMI	274000, 274116, 274119, 275121, 275123, 275124, 275125, 275126, 275127	SOUND SYSTEM WALL MOUNTED DIGITAL MEDIA INPUT PLATE (1) HDMI.
MONH	274000, 274116, 274119, 275121, 275123, 275124, 275125, 275126, 275127	WALL MOUNTED MONITOR SPEAKER OUTLET. SUBSCRIPT NUMBER INDICATES QUANTITY OF OUTLETS REQUIRED. (BLANK IMPLIES ONE)
MONH	274000, 274116, 274119, 275121, 275123, 275124, 275125, 275126, 275127	MONITOR SPEAKER FLOOR OUTLET. SUBSCRIPT NUMBER INDICATES QUANTITY OF OUTLETS REQUIRED (BLANK IMPLIES ONLY ONE). FLOOR BOX SPECIFIED ON THE POWER PLANS UNLESS OTHERWISE NOTED.
TP	274000, 274116, 274119, 275121, 275123, 275124, 275125, 275126, 275127	TOUCH PANEL - WALL MOUNTED AUDIO VIDEO CONTROL INTERFACE. WIRELESS SYMBOL ONLY INCLUDED IF TP IS WIRELESS.
TIC	274000, 274116, 274119, 275123, 275127	THEATER INTERCOM SPEAKER STATION. (TICM); PRODUCTION INTERCOM MAIN CONTROL.
PII	274000, 274116, 274119, 275123, 275127	PRODUCTION INTERCOM INPUT PLATE
HP	274000, 274116, 274119, 275123, 275127	PUBLIC ADDRESS HORN. SUBSCRIPT "V" INDICATES THAT THE SPEAKER IS VOLUME CONTROLLED.
HS	274000, 274116, 274119, 275123, 275127	SOUND SYSTEM HORN
IR	274000, 274116, 274119, 275123, 275127	CLASSROOM SOUNDFIELD INFRARED RECEIVER.
VC	274000, 274116, 274119, 275121, 275123, 275124, 275125, 275126, 275127	WALL MOUNTED VOLUME CONTROL.
SM	274000, 274116, 274119, 275121, 275123, 275124, 275125, 275126, 275127	CEILING MOUNTED SOUND MASKING EMITTER.
ANT	274000, 274116, 274119, 275121, 275123, 275124, 275125, 275126, 275127	CEILING MOUNTED WIRELESS MICROPHONE ANTENNA. (X INDICATES NUMBER DESIGNATION).
ANT	274000, 274116, 274119, 275121, 275123, 275124, 275125, 275126, 275127	WALL MOUNTED WIRELESS MICROPHONE ANTENNA. (X INDICATES NUMBER DESIGNATION).
AV	274000, 274119, 275123, 275124, 275127	ASSISTED LISTENING INFRARED TRANSMITTER. SUBSCRIPT (X) (W) WIF; (U) UHF.

SYMBOL	SECTION	DESCRIPTION
	281523	INTERCOM DOOR STATION
	281523	INTERCOM DOOR STATION W/VIDEO
	281523	MASTER INTERCOM DOOR STATION
	284800	EMERGENCY CALL STATION
	281300	CARD READER, SUBSCRIPT (X); (L) LONG RANGE; (VP) VEHICULAR PEDESTAL; OR WIRELESS SHOWN WITH WIRELESS SYMBOL.
	281300	CARD READER WITH PIN PAD
	281300	BIOMETRIC READER DEVICE ("_" INDICATES F-FINGER, H-HAND, I-IRIS, S-SIGNATURE, V-VOICE)
	281300	DOOR RELEASE STATION
	281300	ELECTRIC LOCK
	281300	MAGNETIC LOCK
	281300	DOOR CONTACT
	281300	REQUEST TO EXIT MOTION
	281300	REQUEST TO EXIT PUSH BUTTON
	281300	LOCAL SOUND
	281300	SCREENING DEVICE
	281300	WIRELESS LOCK
	281300	MAGNETIC DOOR HOLD
	281300	ELECTRIC DOOR HOLD/CLOSER
	281300	WIRELESS LOCK GATEWAY
	281300	ACCESS CONTROL PANEL - WALL MOUNTED

SYMBOL	SECTION	DESCRIPTION
	282300	SINGLE SENSOR FIXED IP-CCTV SECURITY CAMERA. PROVIDE (1) UTP CABLE AND OUTLET.
	282300	DUAL SENSOR FIXED IP-CCTV SECURITY CAMERA. PROVIDE (1) UTP CABLE AND OUTLET.
	282300	SINGLE SENSOR PTZ IP-CCTV SECURITY CAMERA. PROVIDE (1) UTP CABLE AND OUTLET.
	282300	QUAD SENSOR FIXED IP-CCTV SECURITY CAMERA. PROVIDE (1) UTP CABLE AND OUTLET.
	282300	QUAD SENSOR 180 DEGREE FIXED IP-CCTV SECURITY CAMERA. PROVIDE (1) UTP CABLE AND OUTLET.
	282300	QUAD SENSOR 270 DEGREE FIXED IP-CCTV SECURITY CAMERA. PROVIDE (1) UTP CABLE AND OUTLET.
	282300	SINGLE SENSOR 360 DEGREE FIXED FISH EYE IP-CCTV SECURITY CAMERA. PROVIDE (1) UTP CABLE AND OUTLET.
SYMBOL	EXAMPLE	DESCRIPTION
		CAMERA WALL MOUNT
		CAMERA CORNER MOUNT
		CAMERA POLE MOUNT
		CAMERA PARAPET/TELESCOPIC MOUNT
		CAMERA CEILING MOUNT (NO MOUNTING SYMBOL)

SYMBOL	SECTION	DESCRIPTION
	281600	DURESS BUTTON
	281600	LOCK DOWN BUTTON
	281600	KEY SWITCH
	281600	ARM/ISARM KEYPAD
	281600	MOTION DETECTOR
	281600	MOTION DETECTOR - CEILING MOUNTED
	281600	GLASS BREAK SENSOR
	281600	GLASS BREAK SENSOR - CEILING MOUNTED
	281600	VIBRATION SENSOR
	281600	VIBRATION SENSOR - CEILING MOUNTED

Division 27 / 28 Responsibility Matrix

Ref	Scope Item	Furnish	Install	Terminate / Connect	Program / Commission	Source (Spec § / Sheet)
A. Pathways, Boxes, Power & Grounding (common to all systems)						
A-01	Conduit with pull strings, electrical pull boxes, and outlet boxes	D26	D26	-	-	27 21 00 §1.10.A; 27 21 33 §1.10.A; 27 41 19 §1.10.A
A-02	Power conductors and conduits to all equipment locations	D26	D26	D26	-	27 21 00 §1.10.B; 27 21 33 §1.10.B; 27 41 19 §1.10.B
A-03	Rack plugstrips, quad outlets, rack power conditioner	D27	D27	D27	-	27 21 00 §1.10.B, §3.11.P; 27 41 19 §1.10.B
A-04	Dedicated 120V/30A circuit with L5-30R receptacle at each rack	D26	D26	D26	-	27 11 00 §3.02.D; 1401 keyed note X9
A-05	Dedicated 120V/20A circuits to duplex receptacles 48 in. AFF, 10 ft O.C. on backboards	D26	D26	D26	-	27 11 00 §3.02.C
A-06	TR lighting with wall switch at door; power to TR HVAC	D26	D26	D26	-	27 11 00 §3.02.A and §3.02.B
A-07	3/4 in. non-combustible communications backboard	D27	D27	-	-	27 11 00 §3.02.C vs. T401 keyed note X3
A-08	Cable tray (ladder / wire basket), J-hooks, sleeves, surface raceway	D27	D27	-	-	27 05 28 §1.02.A vs. 27 41 19 §1.02.C
A-09	Conduit framing and supports	D26	D26	-	-	T003 General Note 18
A-10	Core drilling, cutting, patching and restoration for Div 27/28 conduits, sleeves and boxes	D26	D26	-	-	T003 General Note 28
A-11	(2) 1 in. penetration sleeves from corridor into each classroom / office	D26	D26	-	-	T003 General Telecom Note 24
A-12	Firestopping of penetrations made by Division 27 and 28 work	D27	D27	-	-	27 05 25 §1.02.E
A-13	Firestopping of penetrations made by other trades	D07	D07	-	-	27 05 25 §1.02.E and §1.03.A.1 (Section 07 84.19)
A-14	Floor boxes and poke-throughs serving data floor outlets	D26	D26	-	-	T001 Legend, data floor outlet symbol
A-15	#6 AWG ground wire, each equipment rack to building main service ground / TMBG	D26	D26	D26	-	27 21 00 §1.10.C; 27 41 19 §1.10.C
A-16	PBB / SBB telecommunications busbar	D27	D27	D27	-	T401 keyed note X4; 27 05 26 Part 2
A-17	Bonding of racks, cabinets, cable tray, conduits and sleeves to PBB/SBB	D27	D27	D27	-	T003 General Note 27; T401 keyed note X4
B. Structured Cabling (27 11 00 / 27 13 00 / 27 15 00 / 27 05 33)						
B-01	Horizontal UTP cable, jacks, faceplates, patch panels (single-source system)	D27	D27	D27	-	27 15 00 §2.01.A, §2.01.C, §2.04.A
B-02	Copper patch cords and optical fiber jumpers, both ends	D27	D27	D27	-	T003 General Telecom Note 19
B-03	OM4 backbone fiber, U/U, connectors, terminations	D27	D27	D27	-	27 13 00 §2.02, T101 keyed note 6
B-04	Equipment racks, vertical cable managers, overhead ladder rack	D27	D27	-	-	27 11 00 §1.02.A.2-.3; T401 keyed notes X1, X2, X6
B-05	Rack-mount UPS (3000VA, lithium-ion, L5-30P input)	D27	D27	D27	D27	27 11 00 §2.07
B-06	Labeling and identification of outlets, faceplates, patch panels, cables, racks, busbars	D27	D27	-	-	T003 General Telecom Note 20; 27 05 53
B-07	Work area electrical receptacles at telecom outlets	D26	D26	D26	-	27 21 00 §3.11.P; 27 15 00 §1.05.B
C. Network Equipment & Wireless (27 21 00 / 27 21 33)						
C-01	Building core / aggregation switch	Owner	-	-	Owner	27 21 00 §1.02.C
C-02	Edge / access switches in each wiring closet (stacked, Layer 3)	D27	D27	D27	D27	27 21 00 §1.02.C and §1.02.D
C-03	Fiber and copper uplink jumpers to the Owner-furnished core switch	D27	D27	D27	D27	27 21 00 §1.02.C; Part 3 (uplink jumpers)
C-04	Main rack-mounted file server and OS software	D27	D27	D27	D27	27 21 00 §1.02.B
C-05	Routers, gateways, firewall	Owner	Owner	-	Owner	27 21 00 §1.02 (routers/gateways/firewall by others/Owner); 27 21 33 §1.02
C-06	Wireless access points, WLAN controller and licensing	D27	D27	D27	D27	27 21 33 §1.02.B
C-07	Wireless access point cabling, two 6A 6-uns per AP	D27	D27	D27	-	27 15 00 §2.02.B, T603 (2 data per WAP)
C-08	RF site surveys: predictive, AP-on-a-stick validation, post-installation verification	D27	-	-	D27	27 21 33 §1.02.G
C-09	120V branch circuitry serving WLAN / network equipment	D26	D26	D26	-	27 21 33 Part 3 (Div 26 branch circuitry)
C-10	Network management software licenses for all equipment installed under Div 27	D27	D27	-	D27	27 21 00 §1.02.I
C-11	Owner training, minimum 40 hours	D27	-	-	D27	27 21 00 §3.12.A
D. Audio-Visual (27 41 19)						
D-01	Interactive flat panel displays, 85 in.	Owner	D27	D27	D27	27 41 19 §2.02.A (OFCI)
D-02	Non-interactive digital display monitors	Owner	D27	D27	D27	27 41 19 §2.05
D-03	Interactive flat panel wall mounts	D27	D27	-	-	27 41 19 §2.03
D-04	Mobile display cart / portable height-adjustable tilt mount	Owner	D27	-	-	27 41 19 §2.04 vs. T101 keyed note 9
D-05	Sound bars at cart-mounted displays	D27	D27	D27	D27	T101 keyed note 9; 27 41 19 §2.16
D-06	Video conference bars (all-in-one UC appliances)	D27	D27	D27	D27	27 41 19 §2.15; T101 keyed note 8
D-07	AV faceplates, AV1/AV2 plates, HDMI and USB-C extender kits	D27	D27	D27	D27	27 41 19 §2.12; T502 AV1 and AV2 outlet details
D-08	Data jacks integrated into custom AV jack plates	D27	D27	D27	-	27 41 19 §2.12.A.3
D-09	Structural blocking and overhead support for AV equipment	GC/Other	GC/Other	-	-	T003 General AV Note 5; 27 41 19 §3.02.B
D-10	Conduit, cable tray, junction boxes, power circuits, receptacles and terminal cabinets for AV	D26	D26	D26	-	27 41 19 §1.02.C
D-11	AV system programming, DSP, AV-over-IP routing, control source code	D27	-	-	D27	27 41 19 §3.01.K
D-12	Presentation wall mock-up and review	GC/Other	GC/Other	-	-	T003 General AV Note 18; 27 41 19 §1.05.C
D-13	Final furniture configuration coordination	Owner	-	-	-	T003 General AV Note 8

Ref	Scope Item	Furnish	Install	Terminate / Connect	Program / Commission	Source (Spec § / Sheet)
E. Paging, Sound & Clocks (27 51 23 / 27 51 27 / 27 53 13)						
E-01	IP paging head-end, speakers, call switches, admin phone, station bridge, visual strobes	D27	D27	D27	D27	27 51 23 §1.02.A.1-6
E-02	IP clocks (12 scheduled; 1P-13R through TP-14R)	D27	D27	D27	D27	27 53 13 §1.02.C; T101 keyed note 3; T603
E-03	Conduit, outlet boxes and terminal cabinets for the clock system	D26	D26	-	-	27 53 13 §1.02.C
E-04	Classroom sound reinforcement: mics, receiver/amplifier, sound-field speakers, charging stations	D27	D27	D27	D27	27 53 27 §1.01.A.1-8
E-05	Power receptacles serving classroom audio equipment	D26	D26	D26	-	27 53 27 §1.01.B.1 (Section 26 27 26)
F. Access Control (28 13 00)						
F-01	ACS head-end server, intelligent door controllers, software and licensing	D28	D28	D28	D28	28 13 00 §1.01.A.1
F-02	Credential readers (13 scheduled)	D28	D28	D28	D28	T510 access control riser (credential reader by this contractor); 28 13 00 §1.01.A.1
F-03	Door position switches	D28	D28	D28	D28	T510 riser (DPS by this contractor) vs. T510 integrated security detail (by others)
F-04	Electrified locks, strikes, magnetic locks and exit devices	D08	D08	D28	D28	28 13 00 §1.01.A.3.a and §2.06-2.08 (Section 08 71 00)
F-05	Request-to-exit (REX) devices	D08	D08	D28	D28	28 13 00 §1.01.A.3.a vs. T602 door schedule REX columns
F-06	Power transfer hinges	D08	D08	-	-	T510 access control riser diagram
F-07	Local pullbox at each controlled opening	GC/Other	GC/Other	-	-	T510 access control riser diagram
F-08	Door hardware cabling at the opening	D08	D28	D28	-	T510 access control riser diagram
F-09	Hybrid cable (reader data, REX, door position, power) to the local control panel	D28	D28	D28	-	T510 access control riser diagram; 28 05 13 §1.02.A.2
F-10	Access control power supplies (UL 294, battery backup)	D08	D08	D08	D08	28 13 00 §1.02.9
F-11	120 VAC service to ACS power supplies and head-end	D26	D26	D26	-	28 13 00 §1.01.A.3.b; T003 General Security Note 6
F-12	UL 864 fire alarm interface relay (FACP to ACS power supplies)	D26	D26	D26	-	28 13 00 §2.14.C and §2.09.A.4
F-13	ACS to VMS bi-directional integration	D28	-	-	D28	28 13 00 §2.15.A; 28 23 00 §1.05.F
G. Video Surveillance (28 23 00)						
G-01	Cameras, mounts, enclosures and camera licenses (11 scheduled)	D28	D28	D28	D28	28 23 00 §1.05.B, §2.17; T003 General Security Note 14
G-02	Camera aiming, programming and final checkout	D28	-	-	D28	T003 General Security Note 15
G-03	NVR / recording server, storage, VMS software, operator workstations	D28	D28	D28	D28	28 23 00 §2.08, §2.09; §1.05.C
G-04	Dedicated 20A or 30A isolated-ground branch circuit with twist-lock receptacle for the VSS head-end	D26	D26	D26	-	28 23 00 §2.15.A
G-05	VSS head-end UPS (LifePO4)	D28	D28	D28	D28	28 23 00 §2.15.B
G-06	Locking or blocking at camera mounting surfaces	GC/Other	GC/Other	-	-	28 23 00 §3.01.B
H. Intrusion Detection (28 16 00)						
H-01	Control panel, expansion modules, keypads, annunciators and initiating devices	D28	D28	D28	D28	28 16 00 §1.03.B.1-7; T401 keyed note X12
H-02	Communicators and supervising-station signal paths (IP plus cellular)	D28	D28	D28	D28	28 16 00 §2.08.A.1-3
H-03	Dedicated, mechanically secured 120 VAC circuit to intrusion power supplies	D26	D26	D26	-	28 16 00 §2.07.A
I. Security Cabling & General Security (28 05 13 / T003)						
I-01	Composite and individual security cable, OSDP cable, end-of-line devices	D28	D28	D28	-	28 05 13 §1.02.A.2-.3
I-02	Enclosed metallic pathway for all security infrastructure back to the security panel	D28	D28	-	-	T003 General Security Note 7
I-03	Tamper-proof screws at security junction boxes; tamper devices on enclosures	D28	D28	-	-	T003 General Security Notes 8 and 11
I-04	Special conductors in elevator travel cable for security devices	GC/Other	GC/Other	D28	-	T003 General Security Note 9
I-05	Field testing and test reports for 100 percent of security cabling	D28	-	-	D28	28 05 13 §1.08.A
J. ERCES (28 48 00) - Design-Build						
J-01	Complete ERCES design, equipment, installation, commissioning, AUI approval and permitting	D28	D28	D28	D28	28 48 00 §1.02.C
J-02	Dedicated 120V/20A circuit from the life-safety / standby generator to the ERCES head-end	Owner	Owner	Owner	-	28 48 00 §1.02.D.1
J-03	Telecommunications grounding busbar (TGB) at the ERCES head-end	Owner	Owner	Owner	-	28 48 00 §1.02.D.2
J-04	Building penetrations, sleeves and firestopping for ERCES pathways	D07	D07	-	-	28 48 00 §1.02.D.3
J-05	FACP module space and supervisory addressing for ERCES interface points	Owner	Owner	Owner	-	28 48 00 §1.02.D.4
J-06	Building, security and roof access for survey and installation	Owner	-	-	-	28 48 00 §1.02.D.5
K. General Requirements (T003)						
K-01	Permits, licenses, utility charges and inspections	D27	-	-	-	T003 General Note 4
K-02	Device outlet location coordination with architectural and casework drawings prior to rough-in	D27	-	-	-	T003 General Telecom Note 3
K-03	Rack and cabinet placement verification with the Owner	D27	-	-	-	T003 General Note 14
K-04	Outage / disruption requests, two weeks written notice	D27	-	-	-	T003 General Note 11
K-05	Wireless access point location adjustment after site verification survey	D27	D27	-	-	T003 General Telecom Note 15

ABBREVIATIONS

3R	NEMA 3R ENCLOSURE	CO	COMMUNICATIONS OUTLET
4X	NEMA 4X ENCLOSURE	COAX	COAXIAL
A	AMPERES	COMM	COMMUNICATIONS
AC	ABOVE COUNTER	CT	CABLE TRAY
ACS	ACCESS CONTROL SYSTEM	CU	COPPER
AF	ABOVE FINISHED CEILING	DC	DIRECT CURRENT
AFF	ABOVE FINISHED FLOOR	DEG	DEGREE
AHJ	AUTHORITY HAVING JURISDICTION	DEMO	DEMOLITION
AL	ALUMINUM	DEPT	DEPARTMENT
ALT	ALTERNATIVE BID OPTIONS	DIA	DIAMETER
ANNUN	ANNUNCIATOR	DISC	DISCONNECT
ARCH	ARCHITECT	DIST	DISTRIBUTION
ATS	AUTOMATIC TRANSFER SWITCH	DN	DOWN
AV	AUDIO VISUAL	DP	DEEP OR DEPTH
AVOIP	AUDIO VISUAL OVER INTERNET PROTOCOL	DPDT	DOUBLE POLE DOUBLE THROW
AWG	AMERICAN WIRE GAUGE	DWG	DRAWING
BFG	BELOW FINISHED GRADE	EA	EACH
BKBD	BACKBOARD	EC	ELECTRICAL CONTRACTOR
BLDG	BUILDING	EES	EARTH ELECTRODE SYSTEM
BOTT	BOTTOM	EF	ENTRANCE FACILITY
C	CONDUIT	ELEC	ELECTRIC, ELECTRICAL
C/B	CIRCUIT BREAKER	EMT	ELECTRIC METALLIC TUBING
C/T	CURRENT TRANSFORMERS	EQUIP	EQUIPMENT
CAB	CABINET	ER	EQUIPMENT ROOM
CAT	CATEGORY	ESS	ELECTRONIC SAFETY & SECURITY
CATV	COMMUNITY ANTENNA TELEVISION	EXIST	EXISTING
CCTV	CLOSED CIRCUIT TELEVISION	FT	FEET
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	GEN	GENERATOR
CKT	CIRCUIT	GFI	GROUND FAULT INTERRUPT
CLG	CEILING	GND	GROUND
CLST	CLOSET	HH	HANDHOLE

CO	COMMUNICATIONS OUTLET	IAC	IN ACCORDANCE WITH
COAX	COAXIAL	IBC	INTERNATIONAL BUILDING CODE
COMM	COMMUNICATIONS	IDF	INTERMEDIATE DISTRIBUTION FRAME
CT	CABLE TRAY	IG	ISOLATED GROUND
CU	COPPER	IMC	INTERMEDIATE METAL CONDUIT
DC	DIRECT CURRENT	IP	INTERNET PROTOCOL
DEG	DEGREE	JB	JUNCTION BOX
DEMO	DEMOLITION	KVA	KILOVOLT - AMPERES
DEPT	DEPARTMENT	KW	KILOWATTS
DIA	DIAMETER	LAN	LOCAL AREA NETWORK
DISC	DISCONNECT	MAX	MAXIMUM
DIST	DISTRIBUTION	MC	MAIN CROSS-CONNECT
DN	DOWN	MCB	MAIN CIRCUIT BREAKER
DP	DEEP OR DEPTH	MCC	MOTOR CONTROL CENTER
DPDT	DOUBLE POLE DOUBLE THROW	MCM	THOUSAND CIRCULAR MILS
DWG	DRAWING	MER	MAIN EQUIPMENT ROOM
EA	EACH	MH	MAINTENANCE HOLE
EC	ELECTRICAL CONTRACTOR	MIN	MINIMUM
EES	EARTH ELECTRODE SYSTEM	MISC	MISCELLANEOUS
EF	ENTRANCE FACILITY	MLO	MAIN LUGS ONLY
ELEC	ELECTRIC, ELECTRICAL	MM	MULTIMODE FIBER
EMT	ELECTRIC METALLIC TUBING	MMS	MASS NOTIFICATION SYSTEM
EQUIP	EQUIPMENT	MON	MONITOR
ER	EQUIPMENT ROOM	MTD	MOUNTED
ESS	ELECTRONIC SAFETY & SECURITY	MTG	MOUNTING
EXIST	EXISTING	NC	NORMALLY CLOSED
FT	FEET	NEC	NATIONAL ELECTRICAL CODE
GEN	GENERATOR	NIC	NOT IN CONTRACT
GFI	GROUND FAULT INTERRUPT	NL	NIGHT LIGHT CIRCUIT
GND	GROUND	NO	NORMALLY OPEN
HH	HANDHOLE	NTS	NOT TO SCALE

IAC	IN ACCORDANCE WITH	OC	ON CENTER
IBC	INTERNATIONAL BUILDING CODE	OFC	OPTIC FIBER CABLE
IDF	INTERMEDIATE DISTRIBUTION FRAME	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
IG	ISOLATED GROUND	OFOI	OWNER FURNISHED OWNER INSTALLED
IMC	INTERMEDIATE METAL CONDUIT	OICF	OWNER INSTALLED CONTRACTOR FURNISHED
IP	INTERNET PROTOCOL	OM3	LASER OPTIMIZED MULTIMODE, CLASS 3
JB	JUNCTION BOX	OS	OCCUPANCY SENSOR
KVA	KILOVOLT - AMPERES	OSP	OUTSIDE PLANT
KW	KILOWATTS	PB	PULL BOX
LAN	LOCAL AREA NETWORK	PBB	PRIMARY BUS BAR
MAX	MAXIMUM	PET	PROTECTED ENTRANCE TERMINAL
MC	MAIN CROSS-CONNECT	PR	PAIR
MCB	MAIN CIRCUIT BREAKER	PT	POKE THRU
MCC	MOTOR CONTROL CENTER	PTZ	PAN-TILT-ZOOM
MCM	THOUSAND CIRCULAR MILS	PVC	POLYVINYL CHLORIDE
MER	MAIN EQUIPMENT ROOM	PWR	POWER
MH	MAINTENANCE HOLE	R	RECESSED
MIN	MINIMUM	RGS	RIGID GALVANIZED STEEL
MISC	MISCELLANEOUS	RM	ROOM
MLO	MAIN LUGS ONLY	RMC	RIGID METAL CONDUIT
MM	MULTIMODE FIBER	RU	RACK UNIT
MMS	MASS NOTIFICATION SYSTEM	SBB	SECONDARY BUS BAR
MON	MONITOR	SCR	SHORT CIRCUIT RATING
MTD	MOUNTED	SCTP	SCREENED TWISTED PAIR
MTG	MOUNTING	SF	SQUARE FEET
NC	NORMALLY CLOSED	SHT	SHEET
NEC	NATIONAL ELECTRICAL CODE	SPEC	SPECIFICATIONS
NIC	NOT IN CONTRACT	SR	SOUND REINFORCEMENT
NL	NIGHT LIGHT CIRCUIT	STD	STANDARD
NO	NORMALLY OPEN	SURF	SURFACE
NTS	NOT TO SCALE	TBD	TO BE DETERMINED

TEL	TELEPHONE
TER	TELECOMMUNICATIONS EQUIP. ROOM
TR	TELECOMMUNICATIONS ROOM
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UNIV	UNIVERSAL
UON	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR
V	VOLTS
VIF	VERIFY IN FIELD
VOIP	VOICE OVER INTERNET PROTOCOL
VSS	VIDEO SURVEILLANCE SYSTEM
W	WATTS
W/	WITH
WAP	WIRELESS ACCESS POINT
WP	RIGID GALVANIZED STEEL
WPG	WEATHERPROOF WITH GROUND
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
Y	WYE
Δ	DELTA

1 NOT ALL NOTES INDICATED ON THIS SHEET MAY BE APPLICABLE TO ALL PROJECT CONDITIONS, NOTES APPEARING ON
VARIOUS DRAWINGS FOR DIFFERENT SYSTEMS AND MATERIALS ARE TO BE REVIEWED, COORDINATED AND ARE TO BE
APPLIED TO ALL RELATED DRAWINGS AND DETAILS.

2 THE DRAWINGS INDICATE THE QUANTITY, TYPE AND GENERAL LOCATION OF VOICE/DATA/CATV/AUDIO/VIDEO OUTLETS
REQUIRED IN EACH SPACE. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, AND PROJECT
MANAGEMENT NECESSARY FOR A TURNKEY SYSTEM.

3 ALL MATERIALS SPECIFIED OR NOTED SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS
RECOMMENDATIONS.

4 THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS, LICENSES, AND ALL UTILITY CHARGES, AND
ARRANGE FOR ALL REQUIRED INSPECTIONS.

5 REFER TO THE ARCHITECTURAL INTERIOR ELEVATIONS FOR DEVICE LOCATIONS AND MOUNTING HEIGHTS FOR ADDITIONAL
DETAILS. COORDINATE EXACT DEVICE LOCATIONS PRIOR TO ROUGH-IN.

6 ALL BIDDERS SHALL VISIT AND EXAMINE THE SITE, ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS SHALL
BE PROMPTLY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION DURING THE BIDDING PERIOD. NO
ALLOWANCE SHALL BE MADE TO THE CONTRACTOR FOR FAILURE TO IDENTIFY DISCREPANCIES DURING THE BIDDING
PERIOD.

7 THE CONTRACTOR SHALL INCLUDE ALL OVERTIME AND PREMIUM TIME WORK THAT MUST BE PERFORMED DURING THE
PERIOD OF PERFORMANCE. NO ADDITIONAL COMPENSATION WILL BE AWARDED FOR OVERTIME WORK.

8 COORDINATE EXACT LOCATIONS OF EQUIPMENT WITH OTHER TRADES. VERIFY EXACT WIRING AND CONNECTION
REQUIREMENTS WITH SUBMITTAL DOCUMENTS BEFORE INSTALLATION. SPECIALTY OUTLET TYPES SHALL BE VERIFIED
BEFORE ORDERING. ALL ELECTRICAL AND COMMUNICATION WORK SHOWN HERE MUST BE VERIFIED AND COORDINATED IN
FIELD BEFORE INSTALLATION.

9 THE CONTRACTOR SHALL PROTECT ALL EXISTING AND NEW CONSTRUCTION FROM DAMAGE. EXISTING CEILINGS, WALLS,
FLOORS AND ALL OTHER BUILDING COMPONENTS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION IF DAMAGED. ALL
DAMAGES TO THE BUILDING OR ITS CONTENTS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR RESPONSIBLE
FOR THE DAMAGE TO THE OWNERS SATISFACTION.

10 ALL NEW CONSTRUCTION SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG)
AND CHAPTER 11 OF THE INTERNATIONAL BUILDING CODE.

11 ALL WORK REQUIRING POWER OR COMMUNICATION OUTAGES OR DISRUPTION OF OWNER FUNCTIONS SHALL BE
COORDINATED WITH THE PROJECT ENGINEER, OWNER AND OWNER ITS DEPARTMENT. REQUESTS FOR, NOTIFICATIONS OF,
AND APPROVALS FOR OUTAGES AND DISRUPTIONS SHALL BE MADE TO OWNER AND THE ENGINEER IN WRITING, 2 WEEKS
PRIOR TO THE REQUESTED OUTAGE DATE. OUTAGES SHALL NORMALLY OCCUR DURING THE OWNERS' OFF HOURS.

12 ALL COMMUNICATION WORK SHALL BE INSTALLED BY CERTIFIED CONTRACTORS AND THEIR EMPLOYEES PER THE
CONTRACT DOCUMENTS.

13 THE CONTRACTOR SHALL COORDINATE ALL EQUIPMENT INSTALLATION TO MAINTAIN HEADROOM AND KEEP OPENINGS AND
PASSAGEWAYS CLEAR. THE CONTRACTOR SHALL COORDINATE SYSTEMS INSTALLATION TO MINIMIZE CONFLICT WITH
EXISTING BUILDING UTILITIES AND OTHER TRADES WORK.

14 THE CONTRACTOR SHALL VERIFY EQUIPMENT RACK AND CABINET PLACEMENT AND LAYOUT WITH OWNER AND OWNER'S
REPRESENTATIVE PRIOR TO INSTALLATION.

15 ANY LOW VOLTAGE CABLING IN AN OPEN-CEILING AREA (EXAMPLE GYMNASIUM) SHALL BE INSTALLED IN CONDUIT TO THE
NEAREST ACCESSIBLE CABLE TRAY OR TELECOM ROOM (TR) UNLESS NOTED OTHERWISE.

16 ALL INSTALLATIONS OF EXPOSED EQUIPMENT SHALL BE COORDINATED WITH ASSOCIATED ARCHITECTURAL DETAILS TO
MEET INTENDED AESTHETIC APPEARANCE. ALL WIRING, CONDUITS, BACK BOXES AND OTHER ASSOCIATED CONNECTIONS
SHALL BE CONCEALED BEHIND EQUIPMENT OR WITHIN EXPOSED MOUNTED BRACKETS. EXPOSED WIRING IS PROHIBITED.

17 THE COLOR AND FINISH OF ALL EXPOSED DEVICES IN PUBLIC AREAS SHALL BE REVIEWED AND APPROVED BY THE
ARCHITECT PRIOR TO INSTALLATION.

18 ALL CONDUIT FRAMING SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. CONDUITS SHALL BE INSTALLED PARALLEL
OR PERPENDICULAR TO WALLS. ANGLED CONDUITS ARE PROHIBITED.

19 INCLUDE ALL REQUIRED JUNCTION AND PULL BOXES REGARDLESS OF INDICATION ON THE DRAWINGS (WHICH DUE TO THE
SYMBOLIC METHODS OF NOTATION, MAY BE OMITTED).

20 PULL-BOXES SHALL BE PROVIDED WHERE THE COMBINED SUM OF THE BENDS EXCEEDS 180 DEGREES AND/OR EVERY 100
LINEAR FEET. THE BEND RADIUS FOR CONDUITS SHALL BE 10X THE OUTSIDE DIAMETER FOR OPTICAL FIBER AND 4X THE
OUTSIDE DIAMETER FOR MULTIPAIR COPPER.

21 PROVIDE LONG SWEEPING BENDS FOR ALL COMMUNICATIONS CONDUITS 2-INCHES AND LARGER. LB FITTINGS FOR
COMMUNICATION CONDUITS ARE PROHIBITED.

22 PROVIDE PULL TAPE IN ALL EMPTY CONDUIT AND INNERDUCT. PULL TAPE SHALL BE RATED FOR 200 LBS IN ALL CONDUIT.

23 CABLE TRAY SHALL BE TRAPEZOID OR CANTILEVER MOUNTED ONLY. BOND ALL SECTIONS OF TRAY TOGETHER WITH
MANUFACTURER APPROVED BONDING METHOD PER NEC. ALL CABLE TRAY TO BE 12-INCHES WIDE, UON. CABLE TRAY SHALL
BE PROVIDED WITH 25 PERCENT SPARE CAPACITY.

24 PROVIDE A MINIMUM OF FOUR (4) CONDUITS BETWEEN STACKED CLOSETS ON SUCCESSIVE FLOORS.

25 ALL COMMUNICATIONS OUTLET BOXES SHALL BE A 4 11/16-INCH SQUARE BY 2 1/2-INCH DEEP WITH A MUD RING UON.
PROVIDE A MINIMUM OF ONE (1) 1-INCH CONDUIT FOR ALL COMMUNICATIONS OUTLET BOXES. REFER TO COMMUNICATIONS
DETAILS FOR SPECIFIC OUTLET BOX AND CONDUIT QUANTITY AND SIZE INFORMATION.

26 ALL EQUIPMENT SHALL BE NEW, UON.

27 BOND ALL METALLIC EQUIPMENT, RACKS, CABINETS, CABLE TRAY, CONDUITS, SLEEVES, ETC. TO THE PBB, OR THE SBB IN
CONNECTION WITH THE BONDING ELECTRODE SYSTEM WITH 2-HOLE IRREVERSIBLE COMPRESSION TYPE CONNECTORS
WITH 2-HOLE LUGS. ALL CONDUITS SHALL BE REAMED WITH BUSHINGS INSTALLED.

28 PROVIDE ALL CORE DRILLING, CUTTING, AND PATCHING AND RESTORATION OF ALL FINISHED AREAS REQUIRED TO INSTALL
ALL CONDUITS, SLEEVES, BOXES, ETC. SEAL ALL CORE DRILLS AFTER RACEWAY, CONDUITS, ETC. ARE INSTALLED.

29 PLACEMENT OF UNAUTHORIZED CABLING IN THE COMMUNICATIONS PATHWAYS I.E. CABLE TRAY, J HOOKS, RACEWAY, ETC.
IS PROHIBITED.

30 ALL SLEEVES AND PENETRATIONS SHALL BE ACOUSTICALLY AND FIRE TREATED TO MEET WALL RATING. FIRESTOPPING
ASSEMBLIES SHALL BE PROVIDED AT PENETRATIONS OF CONDUITS, BUS DUCTS, CABLES, CABLE TRAYS AND OTHER
COMMUNICATIONS ITEMS. REFER TO THE THROUGH PENETRATION FIRESTOPPING SPECIFICATION FOR COMPLETE
REQUIREMENTS.

31 CONTRACTORS RESPONSIBILITY TO WHEEL OFF CABLE DISTANCES FROM TERMINATION TO DEVICE PRIOR TO
INSTALLATION.

1 SUPPLY ALL JACKS, RACKS, WIRE, CABINETRY, CONNECTORS, MATERIALS, PARTS, EQUIPMENT AND LABOR NECESSARY FOR THE COMPLETE INSTALLATION OF THE SYSTEMS, IN FULL ACCORDANCE WITH THE RECOMMENDATIONS OF THE EQUIPMENT MANUFACTURERS AND WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

2 REFER TO FLOW DIAGRAMS, RISERS, AND SPECIFICATIONS FOR COMPLETE OPERATIONAL REQUIREMENTS. CONTRACTOR IS TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.

3 WHERE SIGNAL TYPES ARE PROVIDED AND NO CABLE TYPE INDICATED THE CONTRACTOR SHALL PROVIDE THE APPROPRIATE INTERCONNECT CABLE BASED ON THE SIGNAL TYPE REQUIREMENTS.

4 ALL JUNCTION BOXES IN WALLS AND CEILINGS SHALL BE FLUSH MOUNTED. CONDUITS SHALL BE CONCEALED, UNO.

5 STRUCTURAL SUPPORT FOR AUDIOVISUAL EQUIPMENT SHALL BE PROVIDED BY OTHERS AT LOCATIONS DESIGNATED ON THESE DRAWINGS. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, BLOCKING FOR WALL MOUNTED DEVICES AND OVERHEAD SUPPORT FOR CEILING MOUNTED PROJECTORS AND PROJECTION SCREENS. REFER TO ARCHITECTURAL DRAWINGS FOR SUPPORT DETAILS AND REQUIREMENTS.

6 CEILING MOUNTED SPEAKER ENCLOSURES SHALL BE SUPPORTED FROM OVERHEAD STRUCTURE.

7 ALL EXPOSED INTERCONNECT CABLES SHALL BE MOLDED CONNECTOR TYPE, FIELD TERMINATED INTERCONNECT CABLES ARE PROHIBITED.

8 FURNITURE LAYOUT INDICATED ON DRAWINGS IS NOT FINAL AND MAY DIFFER. COORDINATE FINAL FURNITURE CONFIGURATION WITH OWNER PRIOR TO FABRICATION/CONSTRUCTION.

9 TERMINAL BLOCK, BOARDS, STRIPS, OR CONNECTORS SHALL BE FURNISHED FOR ALL CABLES, WHICH INTERFACE WITH RACKS, CABINETS, CONSOLES, OR EQUIPMENT MODULES.

10 ROUTE ALL CABLE AND WIRING WITHIN EQUIPMENT RACKS ACCORDING TO FUNCTION, SEPARATING WIRES OF DIFFERENT SIGNAL LEVELS (MICROPHONE, LINE LEVEL, AMPLIFIER OUTPUT, AC, ETC.) BY AS MUCH DISTANCE AS POSSIBLE. NEATLY ARRANGE AND BUNDLE ALL CABLE LOOSELY WITH HOOK-N-LOOP TIES.

11 POWER CABLES, CONTROL CABLES, AND HIGH-LEVEL CABLES SHALL BE INSTALLED ON THE LEFT SIDE OF AN EQUIPMENT RACK, AS VIEWED FROM THE REAR. ALL OTHER CABLES SHALL BE INSTALLED ON THE RIGHT SIDE OF THE EQUIPMENT RACK, AS VIEWED FROM THE REAR.

12 CABLING WITHIN RACKS SHALL BE CONTAINED IN "FINGER TRAY" OR HOOK-N-LOOP TIED TO THE SIDE OF THE RACK IN A NEAT AND ORDERLY FASHION.

13 ALL CABLES ROUTED OUTSIDE OF RACKS AND CONDUIT SHALL BE CONTAINED IN A SUITABLE HARNESS OR WIREWAY TO MAINTAIN A NEAT AND CLEAN INSTALLATION.

14 OBSERVE PROPER CIRCUIT POLARITY AND LOUDSPEAKER WIRING POLARITY. NO CABLES SHALL BE WIRED WITH A POLARITY REVERSAL BETWEEN CONNECTIONS, AT EITHER END.

15 ALL CABLES SHALL BE CONTINUOUS LENGTHS WITHOUT SPLICES, ALL SYSTEM WIRE (EXCEPT SPARE WIRE, AFTER BEING CUT AND STRIPPED) SHALL BE TERMINATED BY ITS APPROVED MECHANICAL MEANS.

16 CLEARLY AND PERMANENTLY LABEL ALL JACKS, CONTROLS, CONNECTIONS, AND SO FORTH. ALL LABELING SHALL BE COMPLETED PRIOR TO FINAL SYSTEM EQUALIZATION. HAND LABELING IS PROHIBITED.

17 ALL EQUIPMENT SHALL BE HELD FIRMLY IN PLACE WITH APPROPRIATE MOUNTING HARDWARE. ALL EQUIPMENT SHALL BE INSTALLED TO PROVIDE REASONABLE SAFETY TO THE OPERATOR. SUPPLY ADEQUATE VENTILATION FOR ALL ENCLOSED EQUIPMENT ITEMS WHICH PRODUCE HEAT.

18 A MOCK-UP AND MEETING SHALL OCCUR FOR TYPICAL PRESENTATION WALL TECHNOLOGY WHERE INTERACTIVE PROJECTORS AND/OR INTERACTIVE FLAT PANELS OCCUR. WALL SHALL BE FINISHED AND PROJECTOR MARKERBOARD AND/OR VISUAL WALL DISPLAY WALLCOVERING, INTERACTIVE PROJECTOR AND/OR INTERACTIVE FLAT PANEL, DATA AND AV CONNECTIVITY, ELECTRICAL AND ALL ACCESSORIES SHALL BE INSTALLED. CONSTRUCTION MANAGER, ARCHITECT, PROJECTOR MARKERBOARD AND/OR VISUAL DISPLAY WALLCOVERING INSTALLER/CONTRACTOR, TECHNOLOGY INSTALLER/CONTRACTOR, AND ELECTRICAL INSTALLER/CONTRACTOR SHALL BE PRESENT TO REVIEW MOCK-UP. PURPOSE OF MOCK-UP IS TO COORDINATE INTERACTIVE TECHNOLOGY IS FUNCTIONING AS INTENDED. THAT THERE IS PROPER COORDINATION BETWEEN THE WALL SURFACE, THE PROJECTOR MARKERBOARD OR VISUAL DISPLAY WALLCOVERING AND THE INTERACTIVE PROJECTOR AND/OR INTERACTIVE FLAT PANEL. ALL FINAL MOUNTING HEIGHTS FOR DIFFERENT ROOMS AND SPACES SHALL BE CONFIRMED AT THE MOCK-UP REVIEW.

- 1 LARGE DISPLAYS (70" AND UP): BACK BOX WITH AC RECEPTACLES AND SURGE PROTECTION WITH FLANGE AND COVER
CHIEF PAC525FBP2; PROVIDE A MINIMUM OF ONE NETWORK DATA DROP FOR DISPLAY. (ONE NETWORK DROP FOR
WIRELESS GATEWAY).
- 2 DIGITAL SIGNAGE DISPLAYS: BACK BOX WITH FLANGE AND COVER CHIEF PAC525FCW OR CHIEF PAC525FBP2 AC
RECEPTACLES AND SURGE PROTECTION WITH FLANGE AND COVER; PROVIDE A MINIMUM OF TWO NETWORK DATA DROPS
ONE FOR DISPLAY ONE FOR SIGNAGE PLAYER.
- 3 DISPLAYS (70" AND BELOW): BACK BOX WITH FLANGE AND COVER CHIEF PAC525FCW OR CHIEF PAC525FBP2 AC
RECEPTACLES AND SURGE PROTECTION WITH FLANGE AND COVER; PROVIDE A MINIMUM OF ONE NETWORK DATA DROP
FOR DISPLAY. (ONE NETWORK DROP FOR WIRELESS GATEWAY).
- 4 AUDIO INPUT PLATE: (PASSIVE) 2 GANG BOX WITH PLASTER RING TOTAL DEPTH OF AT LEAST 3 1/2".
- 5 DIGITAL MIDDLE PLATE: (ACTIVE) MIDDLE ATLANTIC EVOLUTION 4-GANG WALL BOX OR 8-GANG WALL BOX.
- 6 DANTE I/O PLATE: (ACTIVE) MIDDLE ATLANTIC EVOLUTION 4-GANG WALL BOX OR 8-GANG WALL BOX.
- 7 SDI CAMERA: SINGLE OR 2 GANG BOX WITH PLASTER RING TOTAL DEPTH OF AT LEAST 3 1/2".
- 8 AV CONTROL TOUCH PANEL: 2 GANG BOX WITH PLASTER RING TOTAL DEPTH OF AT LEAST 3 1/2".
- 9 AUDIO VISUAL FLOOR POKE THRU MIDDLE ATLANTIC EVOLUTION 8" OR 10" POKE THRU WITH RECEPTACLES, COVER AND
INTERIOR PLATE OPTIONS.

1 ALL WORK SHALL COMPLY WITH APPLICABLE ANSITIA/IBCSI STANDARDS.

2 FIELD COORDINATE THE LOCATION OF COMMUNICATIONS EQUIPMENT IN ALIGNMENT WITH APPLICABLE CODES.

3 THE CONTRACTOR SHALL COORDINATE DEVICE OUTLET LOCATIONS WITH ARCHITECTURAL AND CASEWORK DRAWINGS PRIOR TO ROUGH-IN. REPORT ANY CONFLICTS TO THE CM, ARCHITECT, AND ENGINEER FOR RESOLUTION.

4 ALL COMMUNICATIONS CABLEING SHALL BE INSTALLED IN CONDUITS, CABLE TRAY, OR AN APPROVED RACEWAY SYSTEM. WHERE CABLE TRAY, CONDUIT, OR RACEWAY IS NOT AVAILABLE ALL CABLES SHALL BE INSTALLED IN J-HOOKS SUPPORTED EVERY 5-FEET, SUFFICIENT IN SIZE TO HANDLE ALL BUNDLED CABLES WHILE MINIMIZING CRUSHING. COPPER AND FIBER OPTIC CABLES WILL BE DIVIDED INTO SEPARATE BUNDLES AND INSTALLED IN SEPARATE J-HOOKS. IF CABLE SLACK EXCEEDS 12-INCHES BETWEEN SUPPORTS, ADDITIONAL SUPPORTS WILL BE INSTALLED TO TAKE UP SLACK AND RELIEVE CABLE STRESS.

5 CATEGORY 6/6A CABLES SHALL BE CONTINUOUS FROM TELECOM ROOM TO WORK AREA OUTLET AND FREE FROM SPLICES, REVERSES, GROUNDS, OR OTHER CONNECTIONS. PROVIDE A 5-FOOT SERVICE LOOP IN THE CEILING (AT THE WORK AREA END) FOR EACH HORIZONTAL CABLE.

6 DO NOT INSTALL CATEGORY 6/6A HORIZONTAL CABLES THAT EXCEED 90 METERS.

7 ALL COPPER TERMINATION HARDWARE SHALL BE 110 STYLE IDC, UON.

8 COMMUNICATIONS CABLING SHALL NOT BE SPLICED, UON.

9 COMMUNICATIONS CONDUIT FILL CAPACITIES ARE GOVERNED BY THE NFPA-70 (NEC) AND SHALL BE FOLLOWED. DO NOT EXCEED 40 PERCENT FILL ON INITIAL PULL ON ANY COMMUNICATIONS CONDUIT.

10 CAREFULLY LAY ALL CABLE WITH APPROPRIATE RADIUS OF CURVATURE AND PROTECT AT BENDS AND CORNERS. OBSERVE MINIMUM BEND RADIUS AND TENSION LIMITATIONS AS SPECIFIED BY TIA. ANY ADDITIONAL SLEEVES AND/OR PENETRATIONS REQUIRED FOR THE INSTALLATION OF COMMUNICATIONS SYSTEM CABLING NOT SHOWN ON THESE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

11 THE CONTRACTOR SHALL ENSURE THAT ALL INSTALLED CABLES ARE FREE FROM TWISTS, KINKS, SHARP BENDS, CUTS, GOUGES OR ANY OTHER PHYSICAL DAMAGE.

12 MONITOR CABLE PULL TENSION TO ENSURE MANUFACTURER'S RECOMMENDATIONS AND INDUSTRY STANDARDS ARE NOT EXCEEDED.

13 ALL CATEGORY 6/6A CABLING MAY BE ROUTED IN THE SAME PATHWAY.

14 THE CONTRACTOR SHALL ENSURE ALL CATEGORY 6/6A CABLING IS SEPARATED FROM LIGHTING, POWER, 70-VOLT AUDIO, MICROPHONE LEVEL, RF, AND SPEAKER LEVEL CIRCUITS IAW ANSITIA-568 GENERIC TELECOMMUNICATIONS CABLING FOR CUSTOMER PREMISES.

15 CABLING ASSOCIATED WITH THE WIRELESS ACCESS POINTS SHALL BE PROVIDED WITH A COIL OF CABLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADJUST THE LOCATIONS OF THE WIRELESS ACCESS POINTS, AS REQUIRED, AFTER CONDUCTING A SITE VERIFICATION SURVEY TO ENSURE COVERAGE THROUGHOUT THE FACILITY.

16 ALL HORIZONTAL AND BACKBONE COMMUNICATIONS CABLING SHALL BE PLENUM RATED, UON, ANY LOW VOLTAGE DEVICE INSTALLED IN A PLENUM-RATED ENVIRONMENT MUST BE RATED FOR PLENUM USE.

17 ALL COMMUNICATIONS CABLING INSTALLED UNDER THE FLOOR SLAB SHALL BE WET-LISTED, CONCEAL CABLING WITHIN CONDUIT BACK TO THE TERMINATION LOCATION OR TRANSITION TO PLENUM RATED CABLING ABOVE THE CEILING.

18 ALL COMMUNICATIONS CABLING SHALL BE PROTECTED FROM EXPOSURE TO PAINT OR ANY OTHER FOREIGN MATERIAL THAT WOULD NEGATIVELY IMPACT THE VALIDITY OF THE MANUFACTURER'S PERFORMANCE WARRANTY. IF ANY CABLE IS EXPOSED TO PAINT AT ANY POINT, REGARDLESS OF THE AMOUNT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING THE CABLE(S) AFFECTED AND WILL REPLACE THE CABLE(S) AT NO COST TO THE OWNER PER THE INSTALLATION SPECIFICATIONS INCLUDING TESTING.

19 PROVIDE ALL COPPER PATCH CORDS AND OPTICAL FIBER JUMPERS AT BOTH THE WORK AREA AND TELECOM ROOM ENDS. REFER TO THE SPECIFICATIONS FOR ADDITIONAL DETAILS.

20 ALL LABELING SHALL COMPLY WITH ANSITIA-608 ADMINISTRATION STANDARD FOR TELECOMMUNICATIONS INFRASTRUCTURE. PROVIDE LABELING FOR ALL MODULAR OUTLETS, FACEPLATES, PATCH PANELS, CABLES, PATCH CABLES, FIBER SPLICER TRAYS, RACKS, CABINETS, PBB/SBS(S), ETC. REFER ELSEWHERE IN THE DRAWINGS AND SPECIFICATIONS FOR THE OWNERS EXACT REQUIREMENTS.

21 TELECOMMUNICATIONS FACEPLATES SHALL MATCH ELECTRICAL SWITCH AND ELECTRICAL RECEPTACLE PLATE FINISHES.

22 EQUIPMENT CABINETS AND PATCH PANELS SHALL BE ARRANGED TO ALLOW FOR A NATURAL WIRING PROGRESSION IN FUNCTIONAL FIELDS. MINIMIZE CROSSING OF WIRES AND ALLOW FOR EASY ACCESS TO ALL COMPONENTS.

23 SURFACE MOUNTED RACEWAY SHALL BE USED BELOW LAY-IN CEILING IN REMODELED AREA WHERE CONDUIT, WIRING AND DEVICES CANNOT BE CONCEALED. PROVIDE LEGRAND WIREMOLD 4000 SERIES OR EQUAL, UON. PROVIDE COMPLETE WITH

ALL FITTINGS, BARRIERS, COVERS AND MOUNTING ACCESSORIES AS RECOMMENDED BY THE MANUFACTURER. COORDINATE ROUTING OF RACEWAY WITH ARCHITECT PRIOR TO ROUGH-IN.

24 PROVIDE (2) 1" PENETRATION SLEEVES INTO EVERY CLASSROOM AND OR OFFICE SPACE FROM CORRIDOR. MUST BE FIRESTOPPED PER NFPA 70.

25 PROVIDE A FIRESTOP BARRIER FOR EACH PENETRATION WHERE CABLE TRAY EXTENDS OR CONTINUES THROUGH FIRE RATED WALL PER NFPA 70.

- 1 THE LOCATION OF EQUIPMENT SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE
- 2 LOCATION OF EQUIPMENT PRIOR TO THE START OF WORK.
- 3 THE DRAWINGS FOR SECURITY WORK UTILIZE SYMBOLS AND SCHEMATIC DIAGRAMS WHICH HAVE NO DIMENSIONAL
- 4 SIGNIFICANCE. THE WORK SHALL THEREFORE BE INSTALLED TO FULFILL THE DIAGRAMMATIC INTENT EXPRESSED ON
- 5 THE SECURITY DRAWINGS, BUT IN CONFORMITY WITH THE DIMENSIONS INDICATED ON THE FINAL WORKING
- 6 DRAWINGS, FIELD SKETCHES, AND SHOP DRAWINGS OF ALL TRADES.
- 7 THE ORIENTATION OF THE SYMBOLS REFLECTS THE GENERAL MOUNTING LOCATION AND ORIENTATION OF THE
- 8 DEVICE. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE CM, ARCHITECT, AND ENGINEER PRIOR TO INSTALLATION
- 9 OF WORK IF ANY MOUNTING LOCATIONS NOTED ON THE DRAWINGS ARE OBSTRUCTED AND/OR IF ANY MOUNTING
- 10 LOCATION CONFLICTS OR PROBLEMS ARE DISCOVERED.
- 11 ALL COMPONENTS PROVIDED ARE TO BE LISTED FOR USE IN THE SYSTEM INDICATED INCLUDING, BUT NOT LIMITED TO:
- 12 UL294 STANDARD FOR ACCESS CONTROL SYSTEM UNITS
- 13 UL634 STANDARD FOR CONNECTORS AND SWITCHES FOR USE WITH BURGLAR-ALARM SYSTEMS UL639 STANDARD FOR
- 14 INTRUSION-DETECTION UNITS
- 15 UL1076 PROPRIETARY BURGLAR ALARM UNITS AND SYSTEMS
- 16 UL2044 STANDARD FOR COMMERCIAL CLOSED CIRCUIT TELEVISION EQUIPMENT
- 17 UL2802 STANDARD FOR PERFORMANCE TESTING OF CAMERA IMAGE QUALITY
- 18 REFER TO COMMUNICATIONS AND ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE OF WORK.
- 19 THE ELECTRICAL CONTRACTOR SHALL PROVIDE 110 VAC INPUT POWER FOR POWER SUPPLIES. THE SECURITY
- 20 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOW VOLTAGE EQUIPMENT NECESSARY FOR SECURITY HARDWARE
- 21 OPERATION.
- 22 ALL SECURITY INFRASTRUCTURE SHALL BE INSTALLED IN ENCLOSED METALLIC PATHWAYS SUCH AS CONDUIT,
- 23 ENCLOSED CABLE TRAY, AND ENCLOSED WIREWAYS TO THE ASSOCIATED SECURITY PANEL.
- 24 ALL ENCLOSURES AND INTRUSION DETECTION DEVICES WITH REMOVABLE COVERS SHALL HAVE TAMPER
- 25 PROTECTION DEVICES CAPABLE OF BEING MONITORED CONTINUOUSLY.
- 26 WHERE APPLICABLE, COORDINATE WITH ELEVATOR CONTRACTOR FOR SPECIAL CONDUCTORS IN THE TRAVEL CABLE
- 27 FOR ACCESS CONTROL, INTRUSION DETECTION, AND VIDEO SURVEILLANCE DEVICES.
- 28 ALL SECURITY CABLES SHALL BE FROM THE SAME MANUFACTURER AND LISTED FOR THE ENVIRONMENT THEY ARE
- 29 INSTALLED. FOLLOW ALL MANUFACTURER INSTRUCTION FOR VOLTAGE DROP AND DISTANCE. REFER TO
- 30 SPECIFICATIONS FOR CABLE TYPES.
- 31 JUNCTION BOXES FOR SECURITY CABLING SHALL HAVE TAMPER-PROOF SCREWS.
- 32 REFER TO THE SECURITY ONE-LINE DIAGRAMS AND DOOR ELEVATION DRAWINGS FOR ADDITIONAL GENERAL NOTES.
- 33 SECURITY EQUIPMENT SCHEDULES ARE PROVIDED AS A GUIDE. THE CONTRACTOR SHALL BE RESPONSIBLE TO
- 34 VERIFY ALL DEVICES IDENTIFIED AND PROVIDE THE APPROPRIATE NUMBER OF DEVICES AS IDENTIFIED ON THE FLOOR
- 35 PLANS.
- 36 THE CONTRACTOR SHALL PROVIDE CAMERA LICENSES FOR EACH NEW INSTALLED CAMERA.
- 37 THE CONTRACTOR IS RESPONSIBLE FOR INITIAL CAMERA AIMING, CAMERA PROGRAMING, AND FINAL CHECKOUT WITH
- 38 THE OWNER AND OWNER'S REPRESENTATIVE.
- 39 WHERE ADVANCED SECURITY SYSTEM INTEGRATION IS REQUIRED THE CONTRACTOR SHALL BE RESPONSIBLE FOR
- 40 COORDINATION ACTIVITIES BETWEEN THE ASSOCIATED SYSTEM PROVIDERS TO THE SATISFACTION OF THE OWNER
- 41 AND OWNER'S REPRESENTATIVE.

1 CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS WITH RESPECT TO MATERIALS AND DIMENSIONS TO DETERMINE
THE EXACT EXTENT OF DEMOLITION WORK.

2 AREAS INDICATED FOR DEMOLITION ARE APPROXIMATE. THERE MAY BE CONDITIONS WHERE DEMOLISHED UTILITIES ARE
NOT WHERE INDICATED ON DRAWINGS. FULL EXTENT OF DEMOLITION SHALL BE DETERMINED AT THE JOB SITE BY THE
CONTRACTOR.

3 ALL NECESSARY CARE SHALL BE TAKEN DURING DEMOLITION AND CONSTRUCTION TO PREVENT DAMAGE TO ADJACENT
MATERIALS AND CONCEALED MECHANICAL, ELECTRICAL, PLUMBING, AND OTHER ITEMS.

4 PRIOR TO COMMENCING DEMOLITION WORK, VERIFY ALL UTILITIES HAVE BEEN TURNED OFF AND/OR CAPPED AS REQUIRED
IN AREAS WHERE DEMOLITION IS TO OCCUR.

5 DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE
ATTENTION OF THE ENGINEER IMMEDIATELY.

6 SEE ARCHITECTURAL, FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL, AND STRUCTURAL DRAWINGS AND
SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

7 ALL WORK AND EQUIPMENT SHALL CONFORM TO NEC. THE MEANS AND METHODS USED BY THIS CONTRACTOR SHALL
CONFORM TO NEC SECTION 110-3 (a and b).

8 WHERE INDICATED, ALL FIBER CABLE, DATA CABLE, RF CABLE, AND AUDIO-VISUAL CABLING SHALL BE DISCONNECTED AND
REMOVED FROM THE JOB TO THEIR SOURCE ENDPOINTS.

9 CONTRACTOR SHALL REMOVE TELECOMMUNICATIONS DATA OUTLETS, EQUIPMENT, CABLING AND ALL RELATED ITEMS.
PROPERLY DISPOSE OR RECYCLE ALL DEMOLISHED ITEMS PER LOCAL CODE AND AHJ REQUIREMENTS.

10 IN EXISTING COMMUNICATIONS ROOMS, THE CONTRACTOR SHALL COORDINATE THE EXTENT OF COMMUNICATIONS
DEMOLITION WITH THE OWNER.

11 ANY DAMAGE INCURRED DURING DEMOLITION SHALL BE REPAIRED AND REPLACED BY THE CONTRACTOR.

1 THE LOCATION OF EQUIPMENT AND STRUCTURES SHOWN ON THE PLANS ARE APPROXIMATE. THERE IS NO GUARANTEE AS
2 TO THEIR ACCURACY. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EQUIPMENT WITH THE OWNER AND EXERCISE
3 CAUTION WHEN PERFORMING WORK IN THE AREA.

4 FIELD COORDINATE LOCATION OF NEW EQUIPMENT IAW APPLICABLE CODES.

5 PRIVATE PROPERTY: TRENCHES ON PRIVATE PROPERTY AND AREAS NOT SUBJECT TO VEHICULAR TRAFFIC MAY BE
6 BACKFILLED WITH NATIVE MATERIAL AND SHALL BE PLACED IN 12" MAXIMUM LOOSE FILLS AND COMPACTED TO 80%
7 MAXIMUM DENSITY PER ASTM D1557.

8 NATIVE BACKFILL, REFER TO SOIL REPORTS.

9 COMPACTION, ALL COMPACTION SHALL BE BY HAND-OPERATED, PLATE TYPE, VIBRATORY, OR OTHER SUITABLE
10 HAND-TAMPERS IN AREAS NOT ACCESSIBLE TO LARGER ROLLERS OR COMPACTORS. EXTREME CARE SHALL BE TAKEN TO
11 AVOID DAMAGE TO CONDUITS, PIPES, AND ANY APPURTENANCES. WATER DENSIFICATION BY INUNDATION OR JETTING
12 SHALL NOT BE PERMITTED WITHOUT PRIOR WRITTEN APPROVAL FROM COMMUNICATIONS DESIGNER OF RECORD.

13 OBTAIN THE SIGNATURE OF THE OWNER AND OWNER'S REPRESENTATIVE SIGNIFYING THE ACCEPTABILITY OF THE DUCT
14 PLACEMENT PRIOR TO POURING ANY CONCRETE FOR THE DUCT BANK.

15 INSTALL A PERMANENT TRACER WIRE (POLYETHYLENE INSULATED), CENTRALLY LOCATED IN TOP OF CONDUIT FORMATION,
16 OF EACH COMMUNICATIONS DUCT BANK AND CORRESPONDING STUB OUTS. COMPRESSION TYPE CONNECTORS SHALL BE
17 USED FOR ALL SPLICES. TEST THE WIRE FOR CONTINUITY AFTER INSTALLATION AND PROVIDE THE TEST RESULTS WITH
18 THE AS BUILT DRAWING. THE TRACER WIRE SHALL BE INSTALLED INTO ALL MAINTENANCE HOLES AND HAND HOLES

19 JOINTS BETWEEN NON-IDENTICAL DUCT BANK COMPONENTS SHALL USE THE APPROPRIATE CONNECTORS SPECIFICALLY
20 DESIGNED FOR THE PURPOSE.

21 FOR DRAINAGE REQUIREMENTS SLOPE DUCT BANKS A MINIMUM OF 4-INCHES PER 100'-FEET MINIMUM TOWARD EACH
22 MAINTENANCE HOLE OR HAND HOLE.

23 CHANGES IN DIRECTION OF RUNS EXCEEDING A TOTAL OF 10 DEGREES, EITHER VERTICALLY OR HORIZONTALLY ARE TO BE
24 ACCOMPLISHED WITH LONG SWEEPING BENDS HAVING A MINIMUM RADIUS OF 7.62M (25'). BENDS ARE NOT TO CHANGE THE
25 INTERNAL DIAMETER OF THE DUCT. THERE SHALL BE NO MORE THAN THE EQUIVALENT OF TWO (2) 90 DEGREE BENDS
26 TOTALING 180 DEGREES BETWEEN PULL POINTS INCLUDING OFFSETS AND KICKS. BACK TO BACK 90 DEGREE BENDS ARE
27 TO BE AVOIDED.

28 DUCT SHALL BE INSTALLED AS STRAIGHT AS POSSIBLE BETWEEN MAINTENANCE HOLES TO MINIMIZE SIDE WALL PRESSURE
29 DURING CABLE INSTALLATION AND TO MINIMIZE NECESSARY DIRECTION CHANGES.

30 THE TRANSITIONING OF DUCTS FROM THE LOWER MAINTENANCE HOLE WINDOW TO THE NOMINAL TRENCH DEPTH SHALL
31 BE ACCOMPLISHED NO LESS THAN 30 FEET FROM THE MAINTENANCE HOLE TO REDUCE THE RADIUS OF THE BENDS.

32 COMMUNICATIONS DUCT BANK SHALL ENTER THE LOWEST AVAILABLE WINDOW OF THE MAINTENANCE HOLE.

33 PROVIDE A PULL STRING RATED AT LEAST 200LBS TENSILE STRENGTH AFTER DUCTS HAVE UNDERGONE CLEANING.
34 PROVIDE A MECHANICALLY EXPANDABLE, REUSABLE RUBBER PLUG FOR EACH VACANT DUCT.

35 REINFORCED DUCT BANKS SHALL BE STEEL BAR REINFORCED PER THE DIMENSIONS SHOWN ON THE DUCT BANK DETAIL
36 DRAWINGS.

37 REINFORCE ALL NEW DUCT BANKS WITHIN 5-FEET OF MAINTENANCE HOLES AND HAND HOLES.

38 REFER TO THE SPECIFICATIONS FOR MAINTENANCE HOLE AND HAND HOLE EQUIPMENT AND ACCESSORIES.

39 THE TERMS MANHOLE AND MAINTENANCE HOLE ARE INTERCHANGEABLE.

A	REFER TO SHEET T-003 FOR ALL GENERAL NOTES
B	ALL CATEGORY CABLE, FACEPLATES, AND JACKS TO BE WHITE.

Bicsi
Christy A Miller
BICSID # 109630
EXPIRES 12-31-27
RCD

[illegible][illegible]

**WARREN COUNTY
CAREER CENTER
MEDICAL ACADEMY**
3525 OH-48, Lebanon, OH 45036

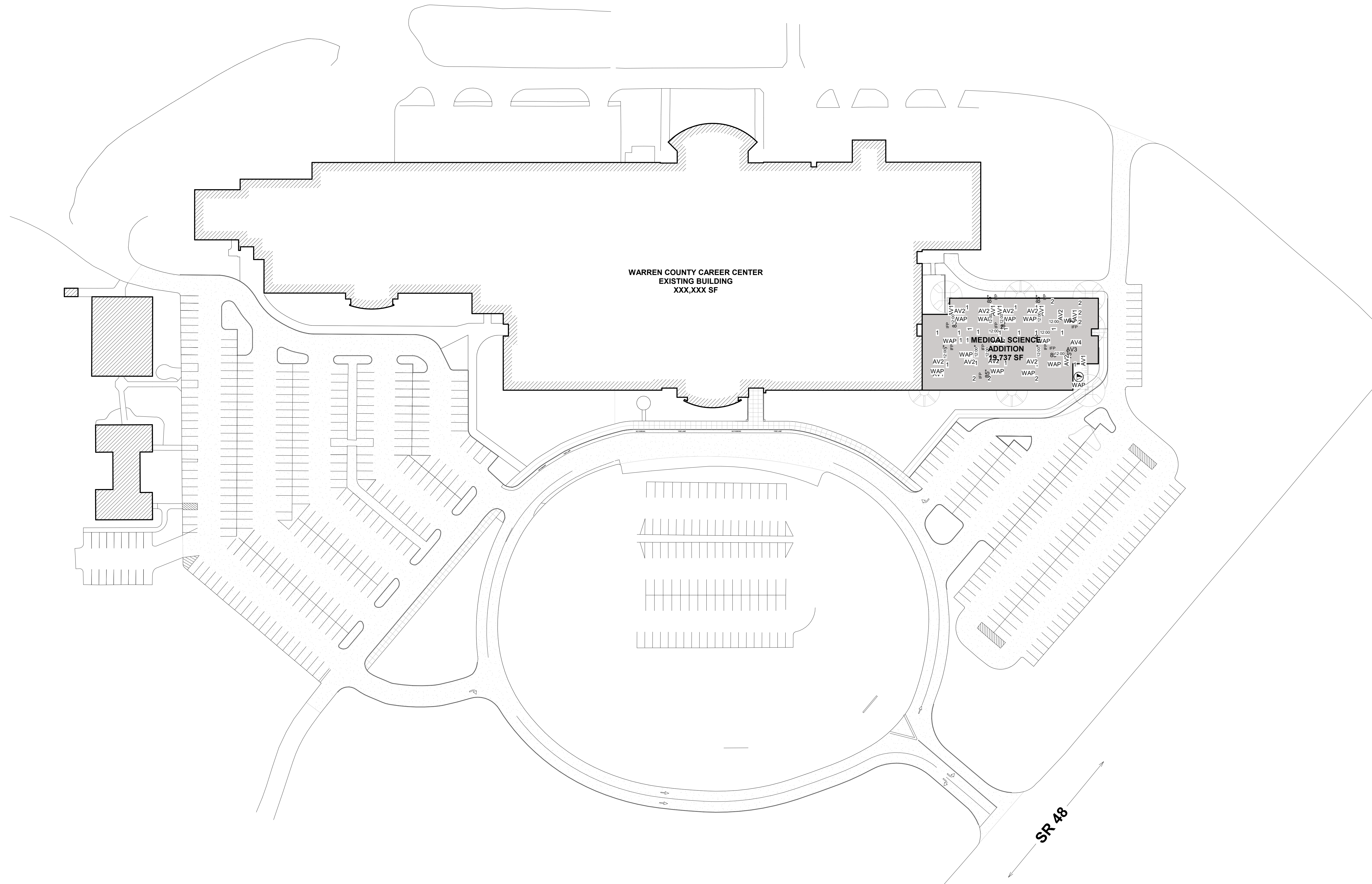
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#263306.00
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TECHNOLOGY SITE
PLAN

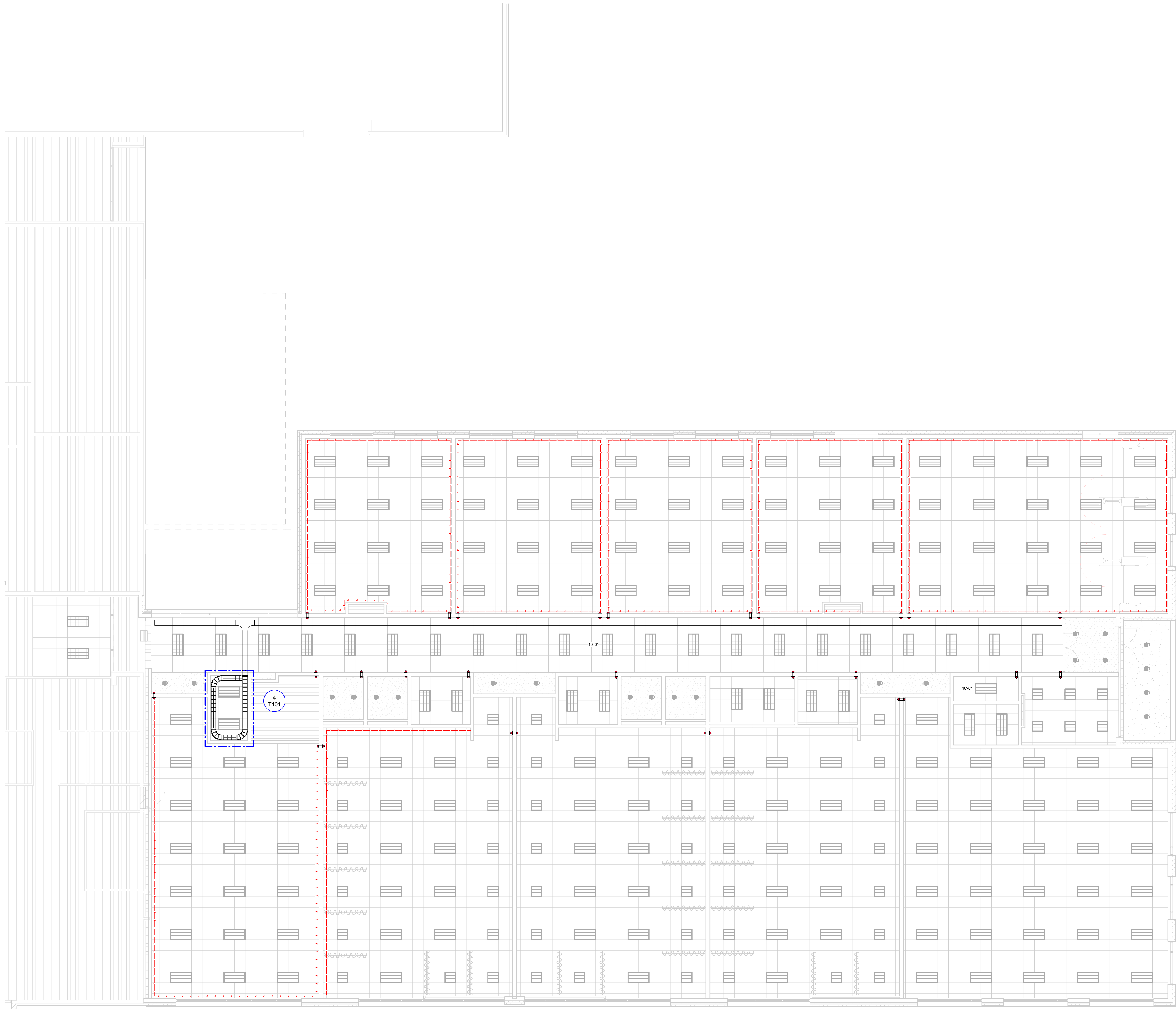
T010



SR 48

1 TECHNOLOGY SITE PLAN
1" = 50'-0"

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GENERAL SHEET NOTES

- A REFER TO SHEET T-003 FOR ALL GENERAL NOTES.
- B ALL CATEGORY CABLE, FACEPLATES, AND JACKS TO BE WHITE.

KEYED NOTES

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REVISIONS :		
Number	Description	Date

PRINTINGS :	
Project Status	XXXX-XXXX
JOB'S COMPLETED DATES	20.11.2025

CONSULTANTS

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CAREER CENTER
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FIRST FLOOR
COMPOSITE
PATHWAY RCP

T011

A REFER TO SHEET T-003 FOR ALL GENERAL NOTES
B ALL CATEGORY CABLE, FACEPLATES, AND JACKS TO BE WHITE.

- ## KEYED NOTES
- 1 AV FACEPLATE MOUNTED AT DISPLAY LOCATION.
 - 2 ONE (1) CATEGORY RATED CABLE TO AN IP PA SPEAKER.
 - 3 WALL MOUNTED IP CLOCK.
 - 4 DIGITAL SIGNAGE FUTURE LOCATION. ONLY CABLEING AND
TERMINATIONS.
 - 5 ONE (1) CATEGORY CABLE FOR FUTURE CEILING
MOUNTED VAPE DETECTOR.
 - 6 12 STRAND MULTI-MODE OM4 ARMORED FIBER FROM MDF.
 - 7 AV2 MOUNTED @ 18" AFF.
 - 8 VIDEO CONFERENCE BAR PER SPEC SECTION 274119.
 - 9 OWNER FURNISHED VIDEO CART. SOUND BAR TO BE
PROVIDED BY CONTRACTOR.

Bicsi
Christy A Miller
BICSI ID #109630
EXPIRES 12-31-27
RCDD

REVISIONS:

[illegible]

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**WARREN COUNTY
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MEDICAL ACADEMY**

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TECHNOLOGY
ENLARGED FLOOR
PLAN

T101

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1 **TECHNOLOGY ENLARGED FLOOR PLAN**
1/8" = 1'-0"

A	REFER TO SHEET T-003 FOR ALL GENERAL NOTES
B	ALL CATEGORY CABLE, FACEPLATES, AND JACKS TO BE WHITE.

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Christy Miller

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**WARREN COUNTY
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MEDICAL ACADEMY**

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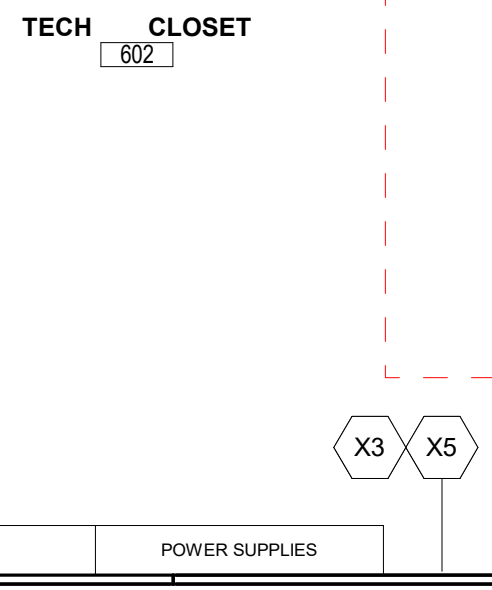
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SECURITY ENLARGED
FLOOR PLAN

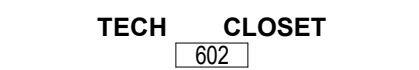
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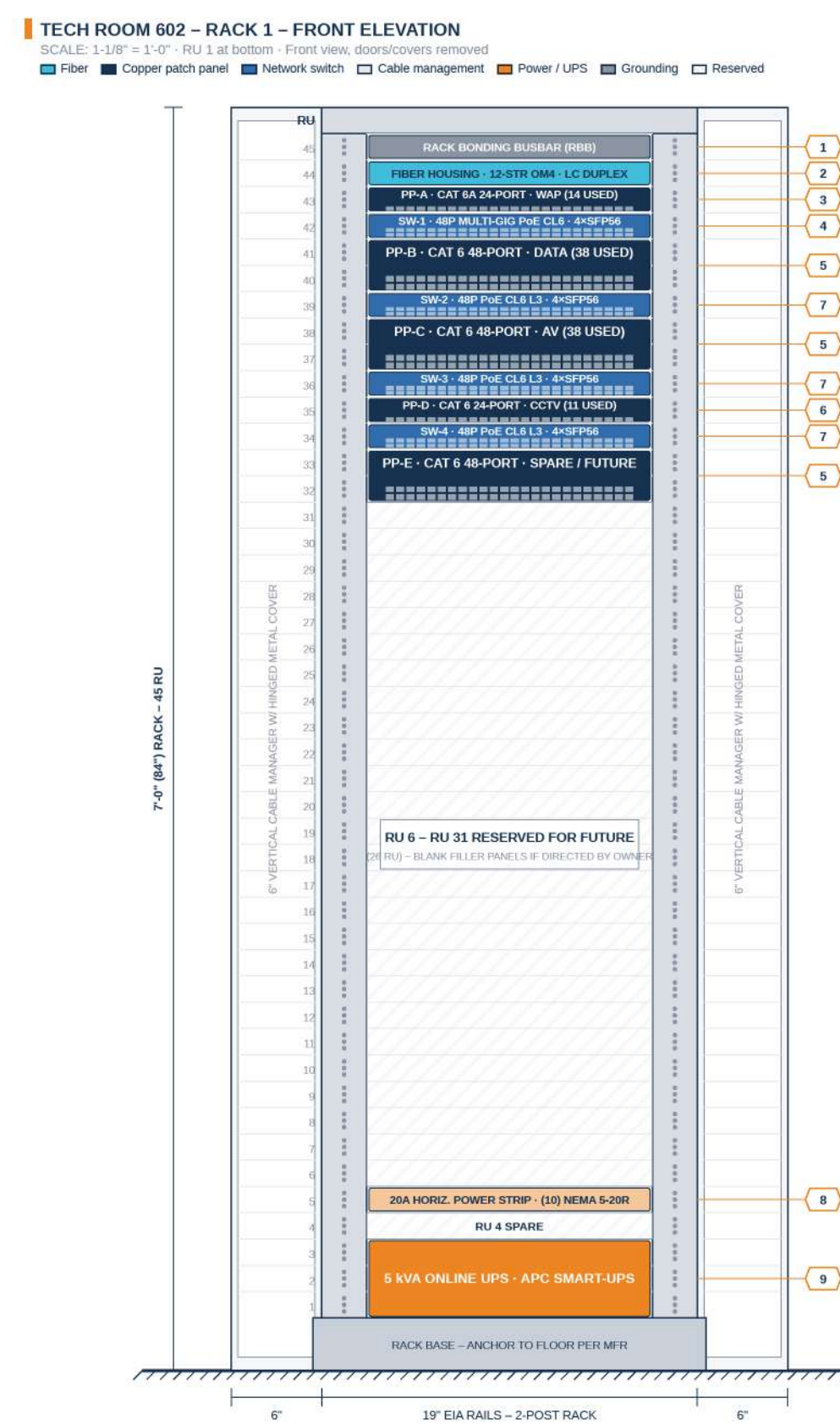
1 SECURITY ENLARGED FLOOR PLAN
1/8" = 1'-0"



FLOOR PLAN



CEILING PLAN



RACK LAYOUT

EQUIPMENT SCHEDULE				
TAG	RU	HF	DESCRIPTION	REFERENCE
1	45	1	Rack ending busbar (REB), bonded to room TDSGB with 6 AWG insulated stranded Cu, bond rack vertical supports, main rack	Part 27 02 00, copper rack busbar 27 11 00 02.01, 02.02, 02.03, 02.04, 02.05, 02.06, 02.07, 02.08, 02.09, 02.10, 02.11, 02.12, 02.13, 02.14, 02.15, 02.16, 02.17, 02.18, 02.19, 02.20, 02.21, 02.22, 02.23, 02.24, 02.25, 02.26, 02.27, 02.28, 02.29, 02.30, 02.31, 02.32, 02.33, 02.34, 02.35, 02.36, 02.37, 02.38, 02.39, 02.40, 02.41, 02.42, 02.43, 02.44, 02.45, 02.46, 02.47, 02.48, 02.49, 02.50, 02.51, 02.52, 02.53, 02.54, 02.55, 02.56, 02.57, 02.58, 02.59, 02.60, 02.61, 02.62, 02.63, 02.64, 02.65, 02.66, 02.67, 02.68, 02.69, 02.70, 02.71, 02.72, 02.73, 02.74, 02.75, 02.76, 02.77, 02.78, 02.79, 02.80, 02.81, 02.82, 02.83, 02.84, 02.85, 02.86, 02.87, 02.88, 02.89, 02.90, 02.91, 02.92, 02.93, 02.94, 02.95, 02.96, 02.97, 02.98, 02.99, 03.00, 03.01, 03.02, 03.03, 03.04, 03.05, 03.06, 03.07, 03.08, 03.09, 03.10, 03.11, 03.12, 03.13, 03.14, 03.15, 03.16, 03.17, 03.18, 03.19, 03.20, 03.21, 03.22, 03.23, 03.24, 03.25, 03.26, 03.27, 03.28, 03.29, 03.30, 03.31, 03.32, 03.33, 03.34, 03.35, 03.36, 03.37, 03.38, 03.39, 03.40, 03.41, 03.42, 03.43, 03.44, 03.45, 03.46, 03.47, 03.48, 03.49, 03.50, 03.51, 03.52, 03.53, 03.54, 03.55, 03.56, 03.57, 03.58, 03.59, 03.60, 03.61, 03.62, 03.63, 03.64, 03.65, 03.66, 03.67, 03.68, 03.69, 03.70, 03.71, 03.72, 03.73, 03.74, 03.75, 03.76, 03.77, 03.78, 03.79, 03.80, 03.81, 03.82, 03.83, 03.84, 03.85, 03.86, 03.87, 03.88, 03.89, 03.90, 03.91, 03.92, 03.93, 03.94, 03.95, 03.96, 03.97, 03.98, 03.99, 04.00, 04.01, 04.02, 04.03, 04.04, 04.05, 04.06, 04.07, 04.08, 04.09, 04.10, 04.11, 04.12, 04.13, 04.14, 04.15, 04.16, 04.17, 04.18, 04.19, 04.20, 04.21, 04.22, 04.23, 04.24, 04.25, 04.26, 04.27, 04.28, 04.29, 04.30, 04.31, 04.32, 04.33, 04.34, 04.35, 04.36, 04.37, 04.38, 04.39, 04.40, 04.41, 04.42, 04.43, 04.44, 04.45, 04.46, 04.47, 04.48, 04.49, 04.50, 04.51, 04.52, 04.53, 04.54, 04.55, 04.56, 04.57, 04.58, 04.59, 04.60, 04.61, 04.62, 04.63, 04.64, 04.65, 04.66, 04.67, 04.68, 04.69, 04.70, 04.71, 04.72, 04.73, 04.74, 04.75, 04.76, 04.77, 04.78, 04.79, 04.80, 04.81, 04.82, 04.83, 04.84, 04.85, 04.86, 04.87, 04.88, 04.89, 04.90, 04.91, 04.92, 04.93, 04.94, 04.95, 04.96, 04.97, 04.98, 04.99, 05.00, 05.01, 05.02, 05.03, 05.04, 05.05, 05.06, 05.07, 05.08, 05.09, 05.10, 05.11, 05.12, 05.13, 05.14, 05.15, 05.16, 05.17, 05.18, 05.19, 05.20, 05.21, 05.22, 05.23, 05.24, 05.25, 05.26, 05.27, 05.28, 05.29, 05.30, 05.31, 05.32, 05.33, 05.34, 05.35, 05.36, 05.37, 05.38, 05.39, 05.40, 05.41, 05.42, 05.43, 05.44, 05.45, 05.46, 05.47, 05.48, 05.49, 05.50, 05.51, 05.52, 05.53, 05.54, 05.55, 05.56, 05.57, 05.58, 05.59, 05.60, 05.61, 05.62, 05.63, 05.64, 05.65, 05.66, 05.67, 05.68, 05.69, 05.70, 05.71, 05.72, 05.73, 05.74, 05.75, 05.76, 05.77, 05.78, 05.79, 05.80, 05.81, 05.82, 05.83, 05.84, 05.85, 05.86, 05.87, 05.88, 05.89, 05.90, 05.91, 05.92, 05.93, 05.94, 05.95, 05.96, 05.97, 05.98, 05.99, 06.00, 06.01, 06.02, 06.03, 06.04, 06.05, 06.06, 06.07, 06.08, 06.09, 06.10, 06.11, 06.12, 06.13, 06.14, 06.15, 06.16, 06.17, 06.18, 06.19, 06.20, 06.21, 06.22, 06.23, 06.24, 06.25, 06.26, 06.27, 06.28, 06.29, 06.30, 06.31, 06.32, 06.33, 06.34, 06.35, 06.36, 06.37, 06.38, 06.39, 06.40, 06.41, 06.42, 06.43, 06.44, 06.45, 06.46, 06.47, 06.48, 06.49, 06.50, 06.51, 06.52, 06.53, 06.54, 06.55, 06.56, 06.57, 06.58, 06.59, 06.60, 06.61, 06.62, 06.63, 06.64, 06.65, 06.66, 06.67, 06.68, 06.69, 06.70, 06.71, 06.72, 06.73, 06.74, 06.75, 06.76, 06.77, 06.78, 06.79, 06.80, 06.81, 06.82, 06.83, 06.84, 06.85, 06.86, 06.87, 06.88, 06.89, 06.90, 06.91, 06.92, 06.93, 06.94, 06.95, 06.96, 06.97, 06.98, 06.99, 07.00, 07.01, 07.02, 07.03, 07.04, 07.05, 07.06, 07.07, 07.08, 07.09, 07.10, 07.11, 07.12, 07.13, 07.14, 07.15, 07.16, 07.17, 07.18, 07.19, 07.20, 07.21, 07.22, 07.23, 07.24, 07.25, 07.26, 07.27, 07.28, 07.29, 07.30, 07.31, 07.32, 07.33, 07.34, 07.35, 07.36, 07.37, 07.38, 07.39, 07.40, 07.41, 07.42, 07.43, 07.44, 07.45, 07.46, 07.47, 07.48, 07.49, 07.50, 07.51, 07.52, 07.53, 07.54, 07.55, 07.56, 07.57, 07.58, 07.59, 07.60, 07.

PORT ALLOCATION (PROPOSED)				
PANEL	SERVICES (1603 DEVICE IDs)	USED / PORTS	SPARE	
PPA (C# 6A)	TP-68 – TP-121 WAP1, 1 drop each	16 / 24	10	
PPB (C# 6B)	TP-10 – TP-121 single data (22, 251, 54, 55, 63 – 66 dual data (7 + 2 = 14); TP-138, TP-139 DP ports	38 / 48	10	
PPC (C# 6C)	AV1 panels 72, 164 – 169 (7 + 2 = 14); AV2 panels 78, 155 – 163 (10 + 2 = 20); AV3 panels 170, 171 (2)	38 / 48	10	
PPD (C# 6D)	Cameras V01 – V053 (11 × 3)	11 / 24	13	
PP-E (C# 6E)	Spare – future devices	0 / 48	48	
TOTAL – 101 drops on 192 ports		101 / 192	91	

[illegible]

GENERAL SHEET NOTES

A REFER TO SHEET T-003 FOR ALL GENERAL NOTES
B ALL CATEGORY CABLE, FACEPLATES, AND JACKS TO BE
WHITE.

KEYED NOTES

X1	45U 4-PORT RACK AS INDICATED.
X2	VERTICAL CABLE MANAGER THAT MATCHES THE HEIGHT OF THE EQUIPMENT RACK.
X3	PROVIDE 3/4-INCH NON-COMBUSTIBLE COMMUNICATIONS BACKBOARD ON WALLS AS INDICATED.
X4	PROVIDE PBB/SBB AS INDICATED. CONNECT ALL CABLE TRAYS, CONDUITS, SLEEVES, RACKS, AND CABINETS TO THE GROUND BUS USING A #6 AWG STRANDED COPPER CONDUCTOR WITH A GREEN THERMOPLASTIC JACKET.
X5	SPACE ALLOCATION FOR ACCESS CONTROL SECURITY PANELS.
X6	PROVIDE SINGLE 12" OVERHEAD LADDER RACK AS INDICATED.
X9	PROVIDE 120V/30A CIRCUIT FOR EACH RACK WITH L5-30R
X12	INTRUSION SYSTEM HEADEND FOR NEW SECTION, TIE INTO EXISTING INTRUSION SYSTEM FOR MAIN BUILDING.

[illegible]

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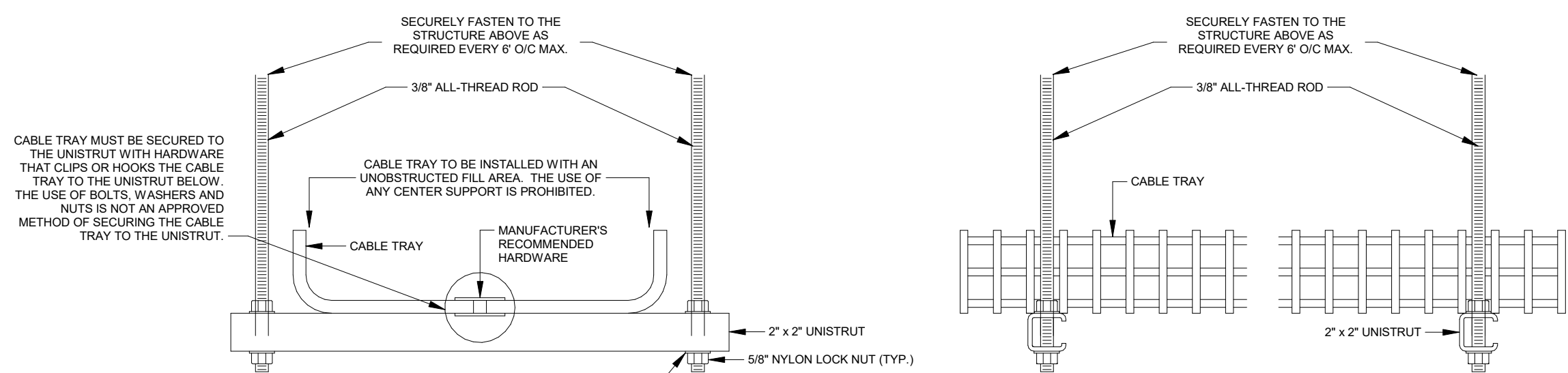
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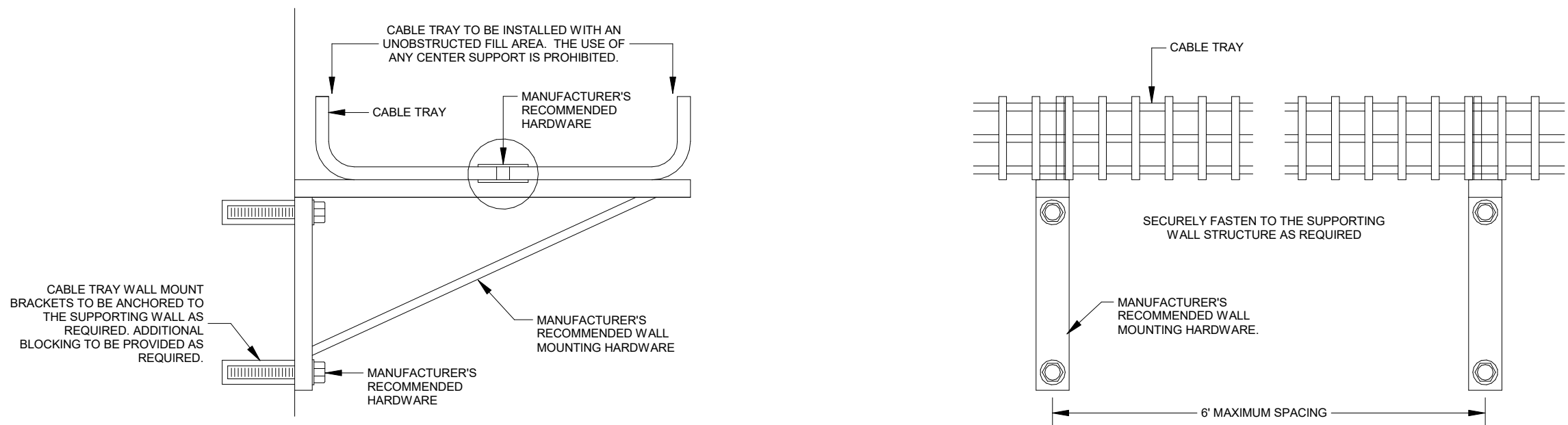


TECH ROOM 602
ENLARGED AND
ELEVATION PLANS

T401

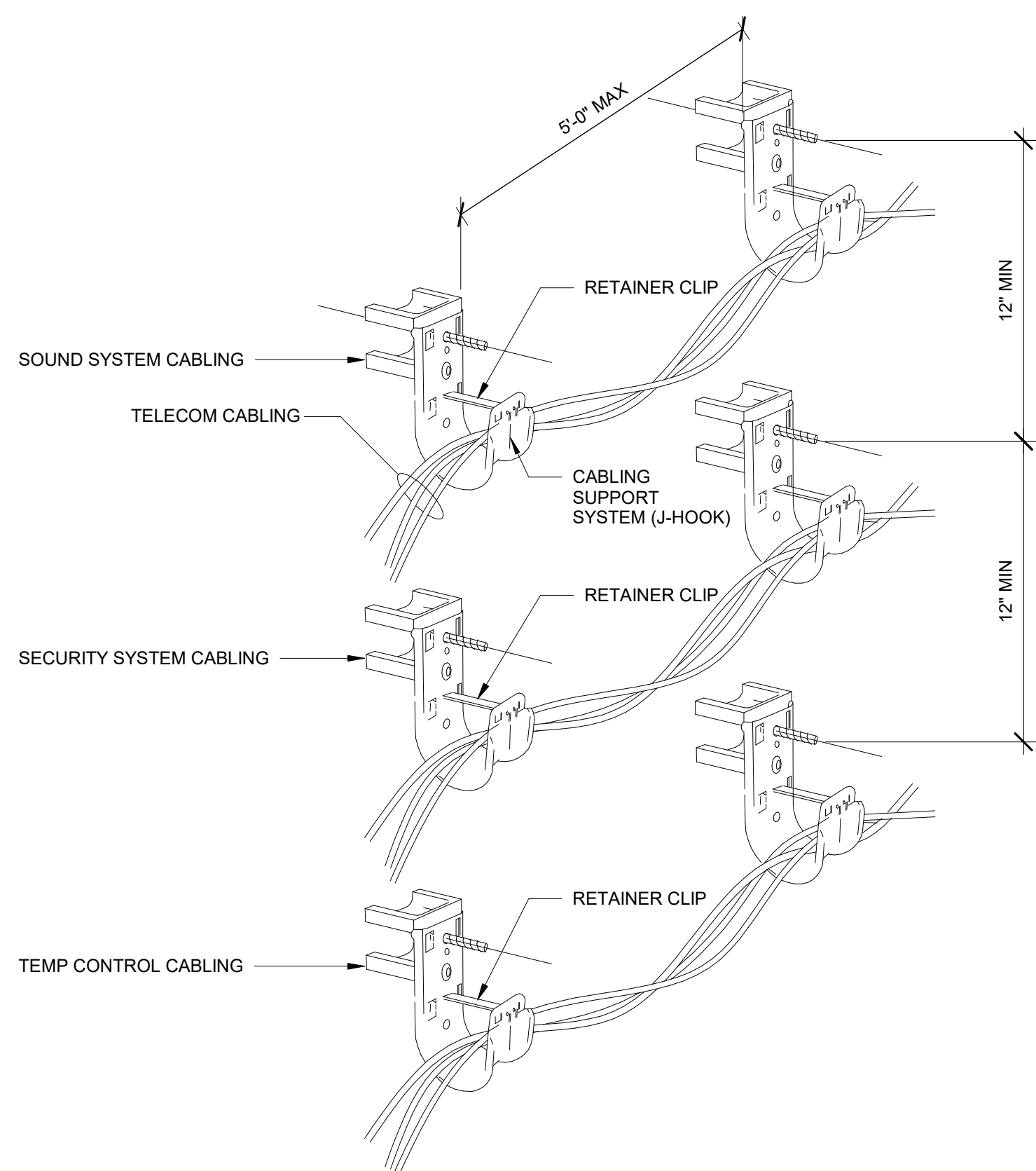


UNISTRUT TRAPEZE SUPPORT



WALL MOUNT BRACKET SUPPORT

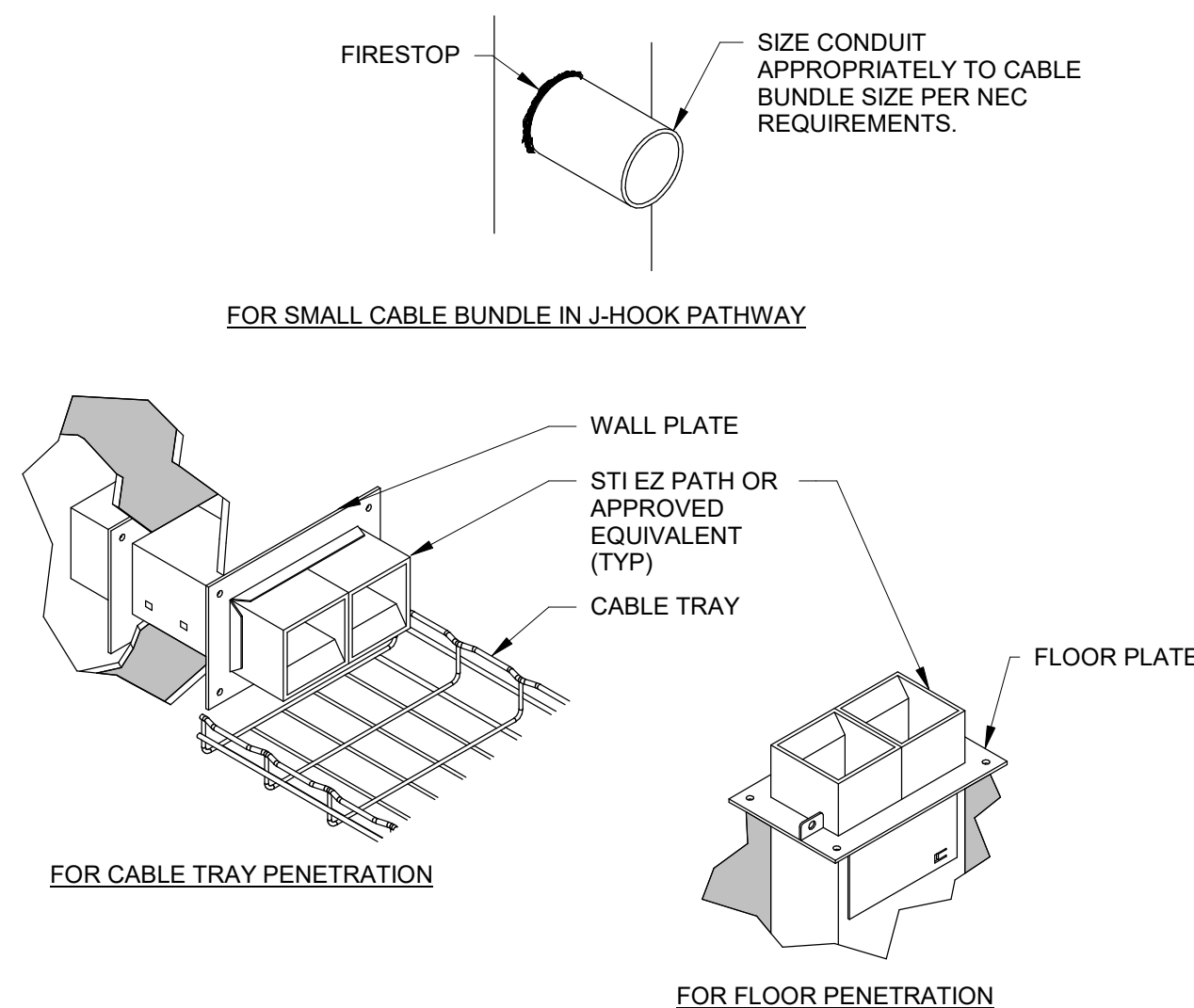
1 CABLE TRAY INSTALLATION DETAIL
NTS



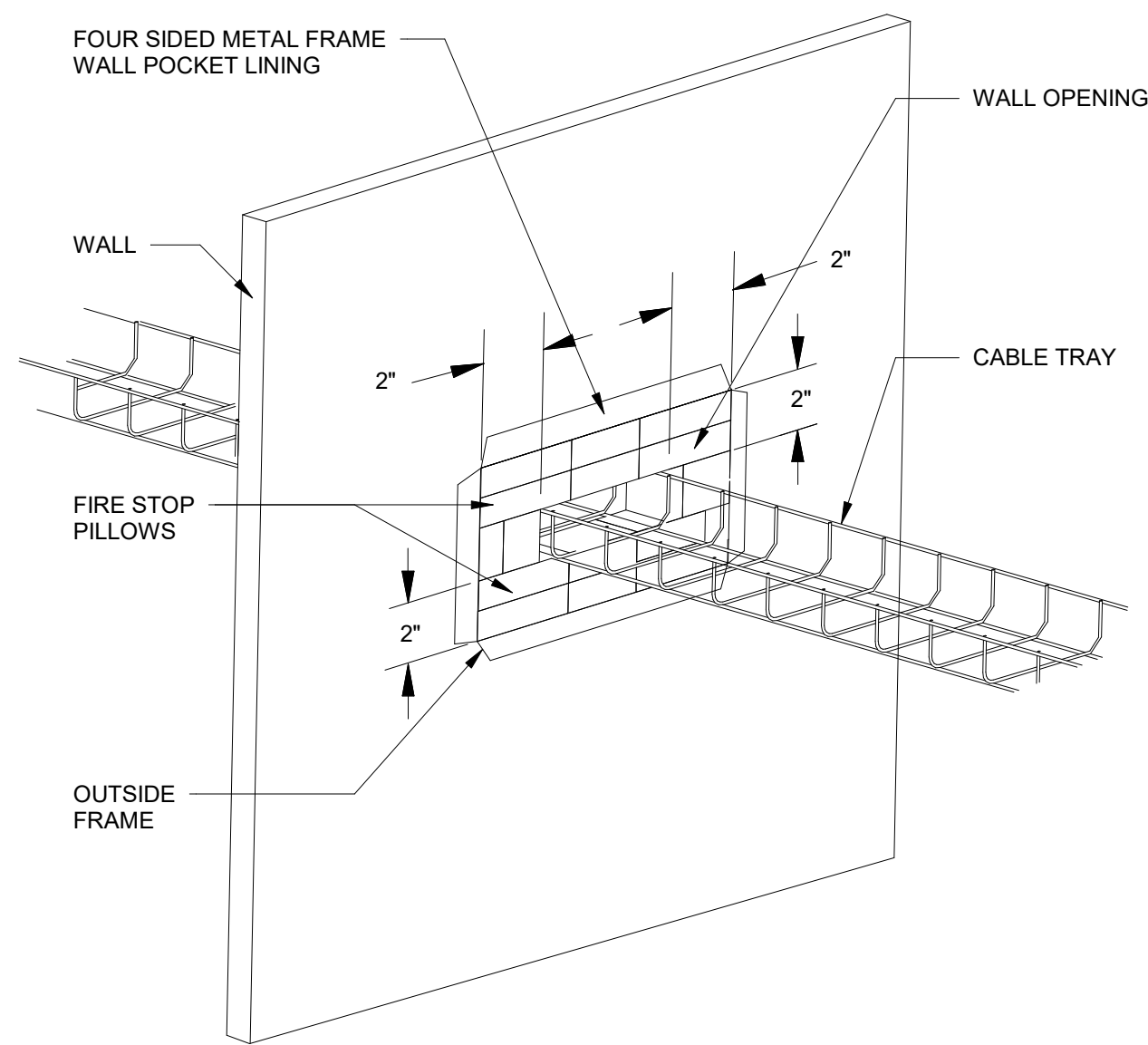
NOTE:

1. PATHWAY FOR WALL-MOUNTED J-HOOKS IS ABOVE CEILING, BETWEEN OUTLET CONDUITS AND TELECOM ROOM CONDUITS. INSTALL J-HOOKS 5'-0" MAX APART, AT CORNERS WHERE CHANGE IN DIRECTION OCCURS, AT INTERSECTIONS, AND TEES, ETC. J-HOOKS SHALL BE ANCHORED TO WALLS OR STRUCTURAL STEEL FRAMING. ANCHOR SIZE SHALL BE DETERMINED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION GUIDE. THE LOADS IMPOSED BY THE CABLE SUPPORT SYSTEM SHALL NOT EXCEED 100 lbs PER FOOT. PROVIDE DEDICATED J-HOOKS AT WIRELESS.
2. ALL UTP CABLING MUST BE PROTECTED FROM PAINT, JOINT COMPOUND, CHEMICALS, ETC. FOR WARRANTY INTEGRITY. IT IS THE RESPONSIBILITY OF THE DIV. 27 CONTRACTOR TO REPLACE ANY CABLE(S) THAT CANNOT BE WARRANTED DUE TO THESE CONDITIONS BEING VISIBLY PRESENT.

2 J-HOOK CABLE SUPPORT DETAIL
NTS



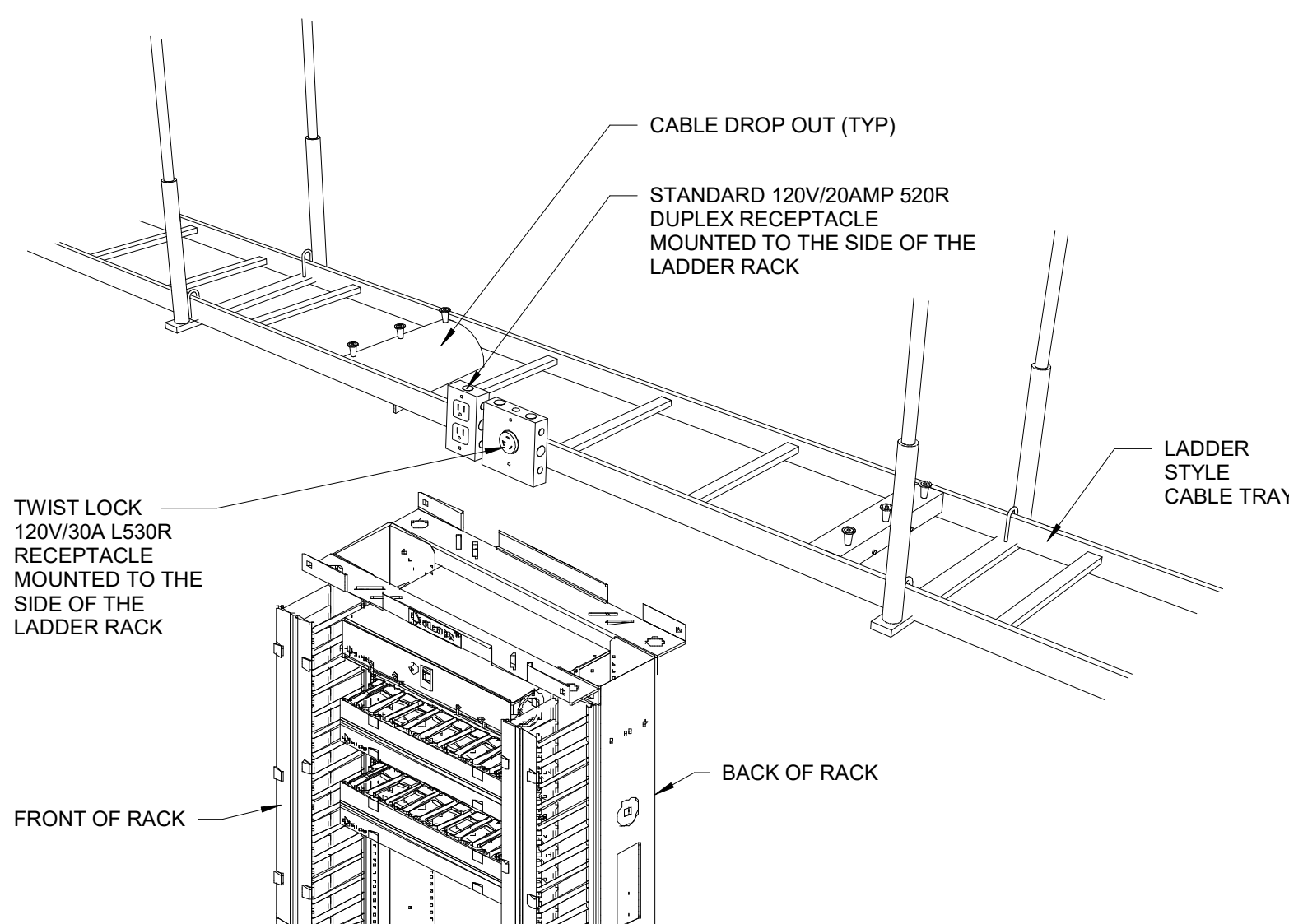
3 RATED WALL PENETRATION DETAIL
NTS



NOTES:

1. LISTED ASSEMBLY TO BE INSTALLED IN THE SURFACE PENETRATION. MUST BE BASED ON THE SURFACE RATING.

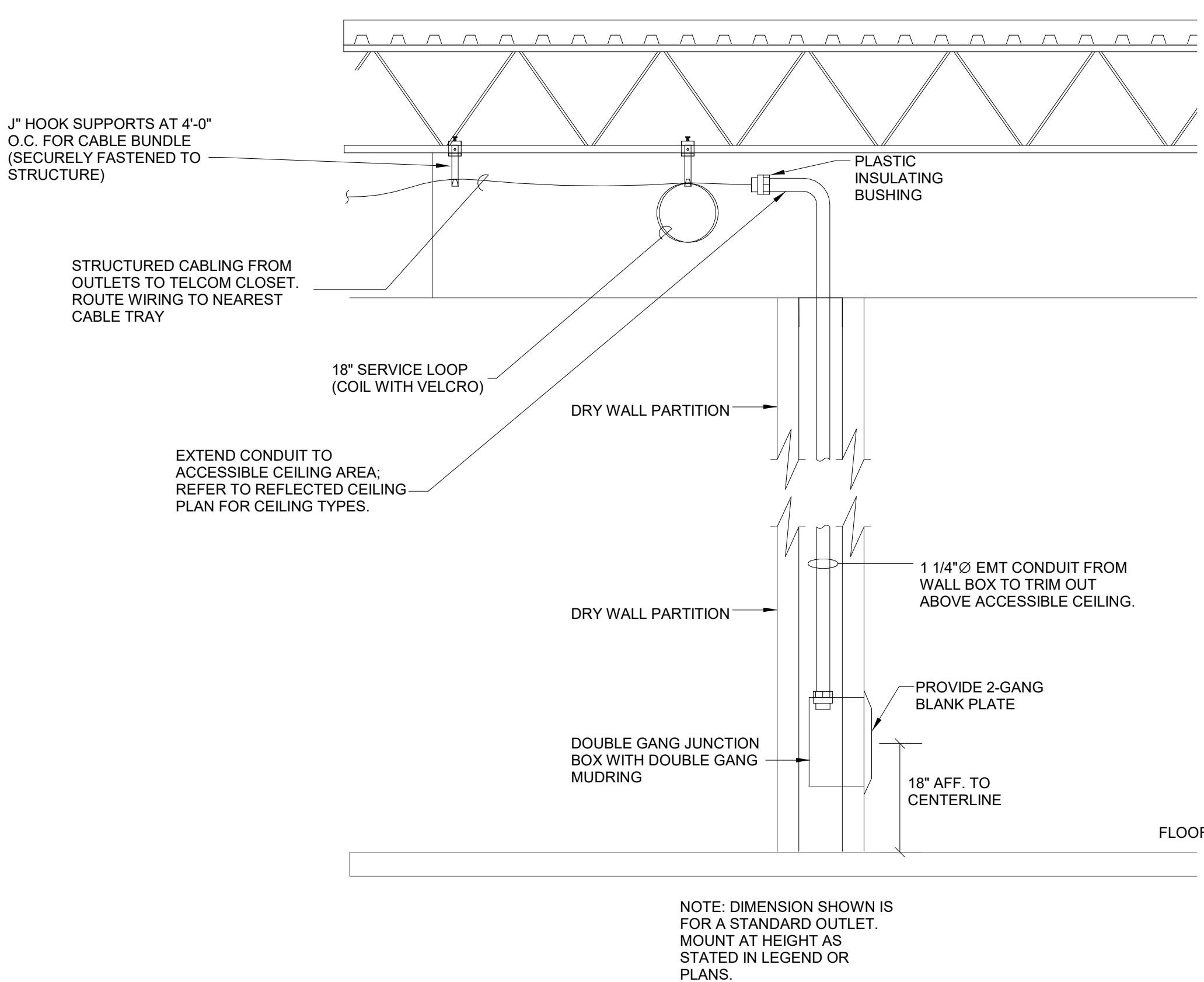
4 CABLE TRAY PASS-THRU FIRESTOP DETAIL
NTS



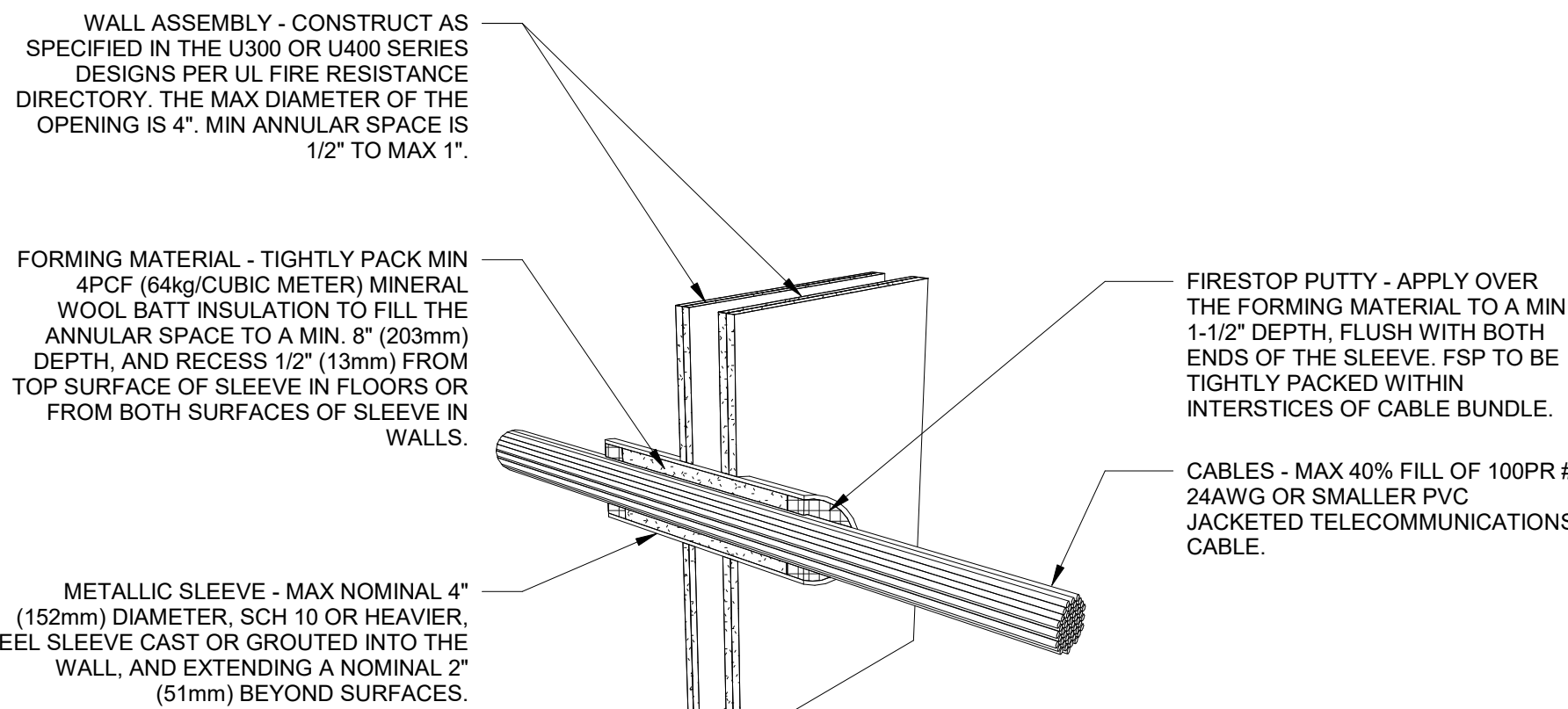
NOTE:

1. INSTALL CABLE TRAY OVER THE TOP OF RACKS/CABINETS WITH WATERFALLS LINED UP TO ROUTE CABLE INTO REAR VERTICAL CABLE MANAGEMENT CHANNELS. SUPPORT TOPS OF RACKS OR CABINETS TO CABLE TRAY (NOT SHOWN).
2. PLACE AND SECURE COMMUNICATIONS CABLE TO MAINTAIN 4" MINIMUM CLEARANCE BETWEEN LOW VOLTAGE CABLING AND POWER CONDUIT AND BOXES.

5 TELECOM RACK TRAY DETAIL
NTS



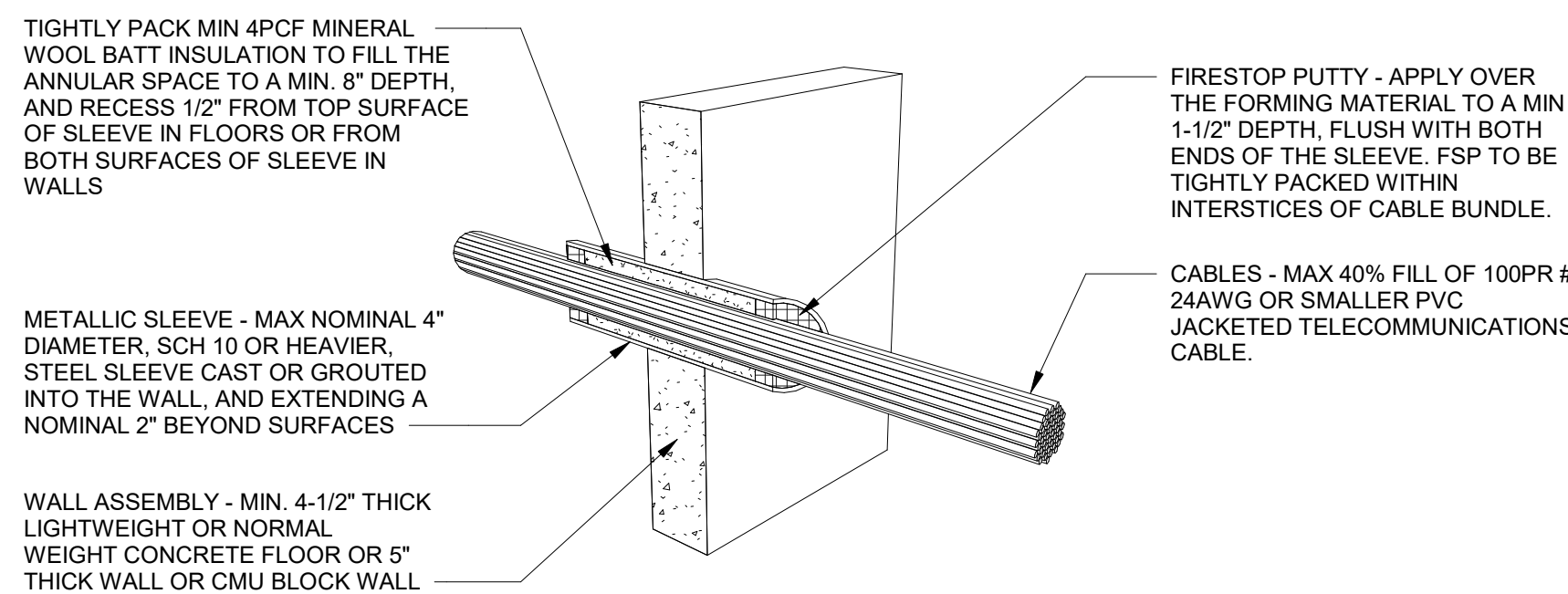
6 TYPICAL WALL-MOUNTED A/V OUTLET ROUGH-IN DETAIL
NTS



NOTES:

1. LISTED ASSEMBLY TO BE INSTALLED IN THE SURFACE PENETRATION. MUST BE BASED ON THE SURFACE RATING.

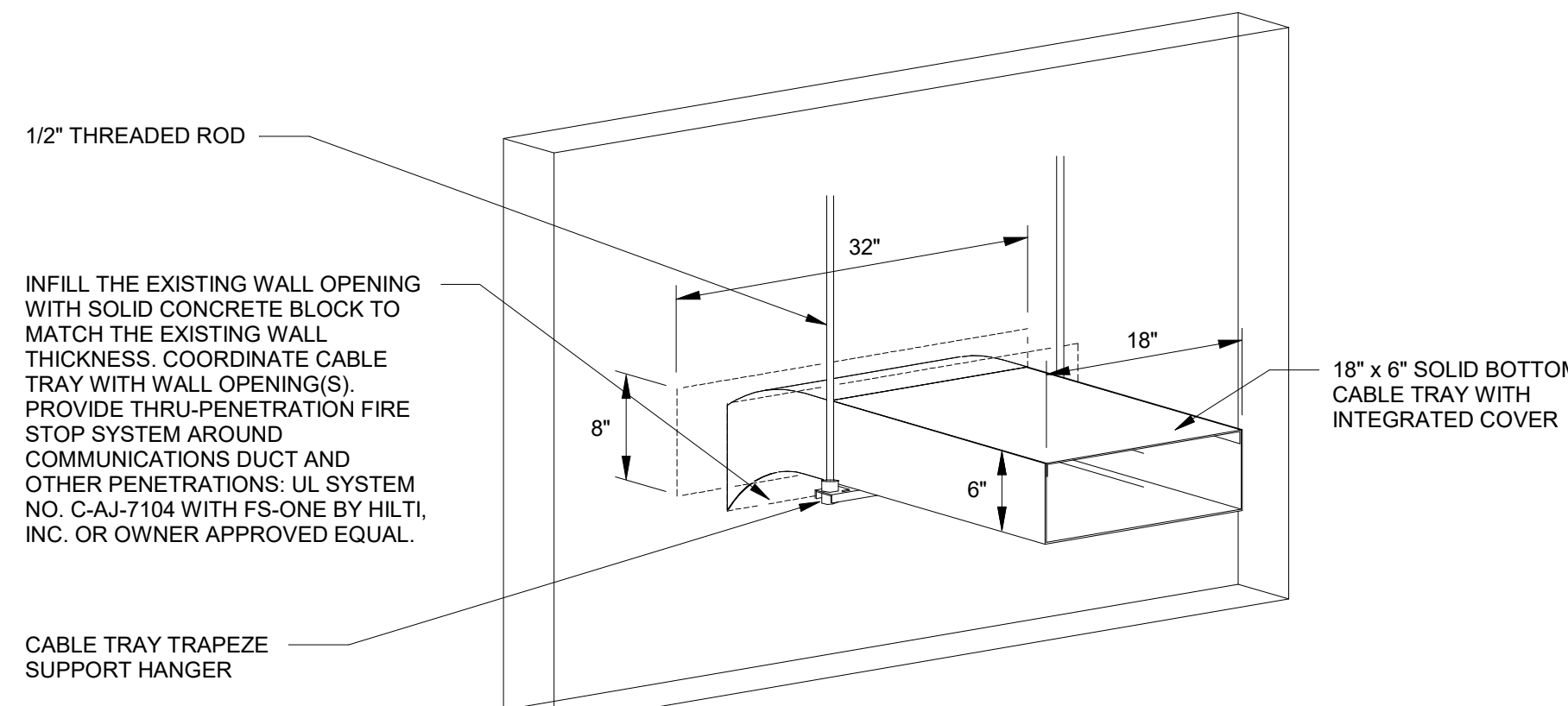
7 CONDUIT SLEEVE SEAL DETAIL - CAVITY
NTS



NOTES:

1. LISTED ASSEMBLY TO BE INSTALLED IN THE SURFACE PENETRATION. MUST BE BASED ON THE SURFACE RATING.

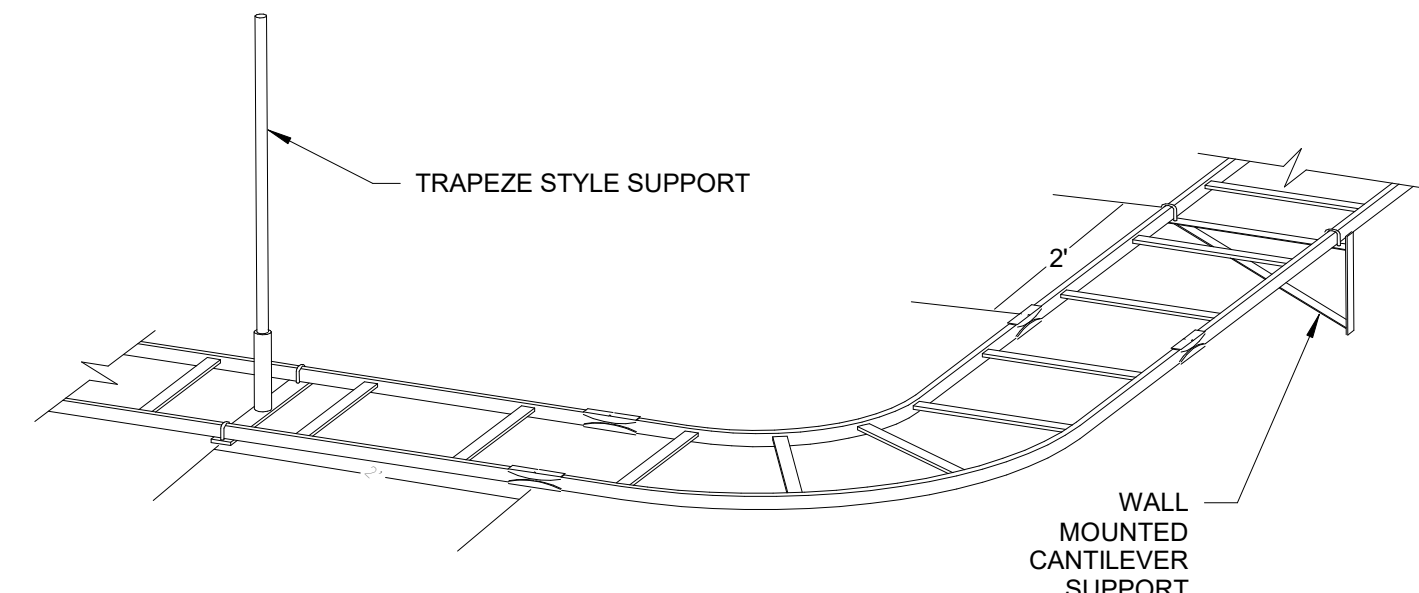
8 CONDUIT SLEEVE SEAL DETAIL - MASONRY CONCRETE
NTS



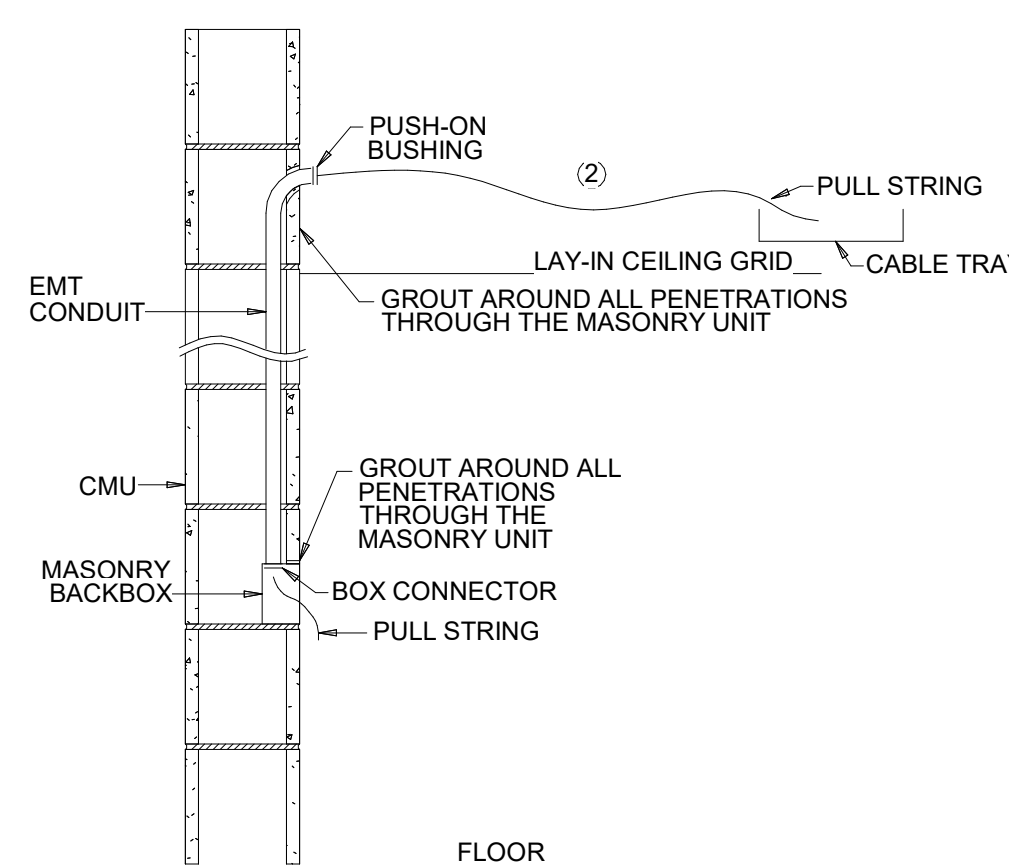
NOTES:

1. LISTED ASSEMBLY TO BE INSTALLED IN THE SURFACE PENETRATION. MUST BE BASED ON THE SURFACE RATING.

9 CABLE TRAY PASS-THRU FIRESTOP DETAIL
NTS



10 TELECOM OVERHEAD CABLE TRAY DETAIL
NTS



11 TYPICAL OUTLET ROUGH-IN DETAIL
NTS

KEYED NOTES

1. THIS DETAIL IS TYPICAL FOR ALL TECHNOLOGY ROUGH-INS INCLUDING CONDUITS STUBBED ABOVE THE CEILING AND CONDUITS ROUTED TO THE CABLE TRAY.
2. CABLES ROUTED TO THE CABLE TRAY SHALL BE SUPPORTED AS REQUIRED ON 5' CENTERS.

GENERAL NOTES

- A. GROUT AROUND ALL PENETRATIONS OF MASONRY OR DRYWALL SURFACES SO THERE ARE NO GAPS BETWEEN CONDUIT AND/OR BACK BOXES AND WALL PENETRATIONS.
- B. PULL STRINGS SHALL BE INSTALLED BETWEEN ALL PORTIONS OF THE BACK BOX AND CONDUIT RUNS.
- C. ALL CONDUIT CONNECTIONS TO BACK BOXES SHALL BE COMPLETED WITH CONDUIT TO BOX CONNECTORS.
- D. ALL CONDUIT SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE.

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WARREN COUNTY
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MEDICAL ACADEMY

COMPOSITE
PATHWAY DETAILS
T501

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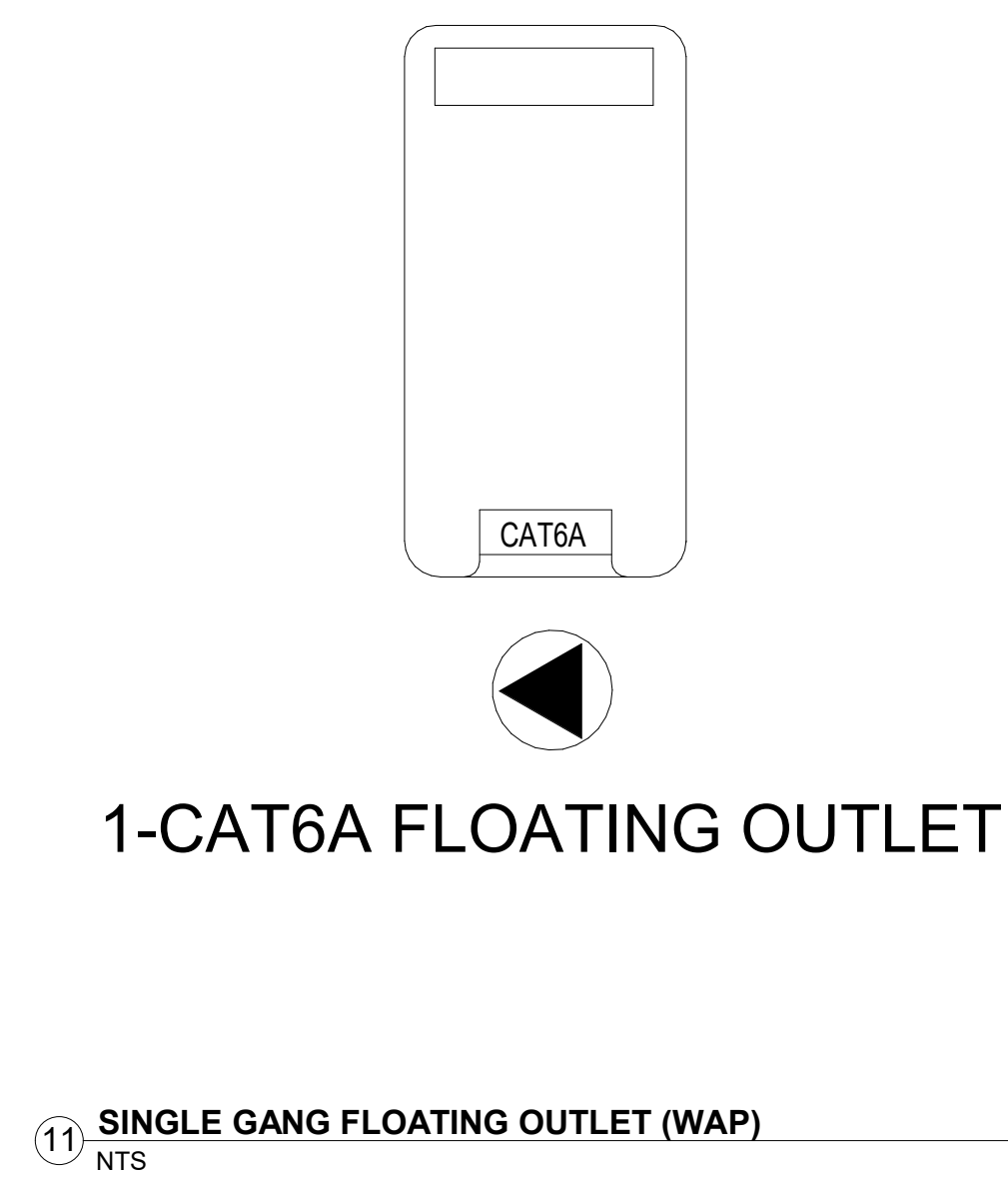
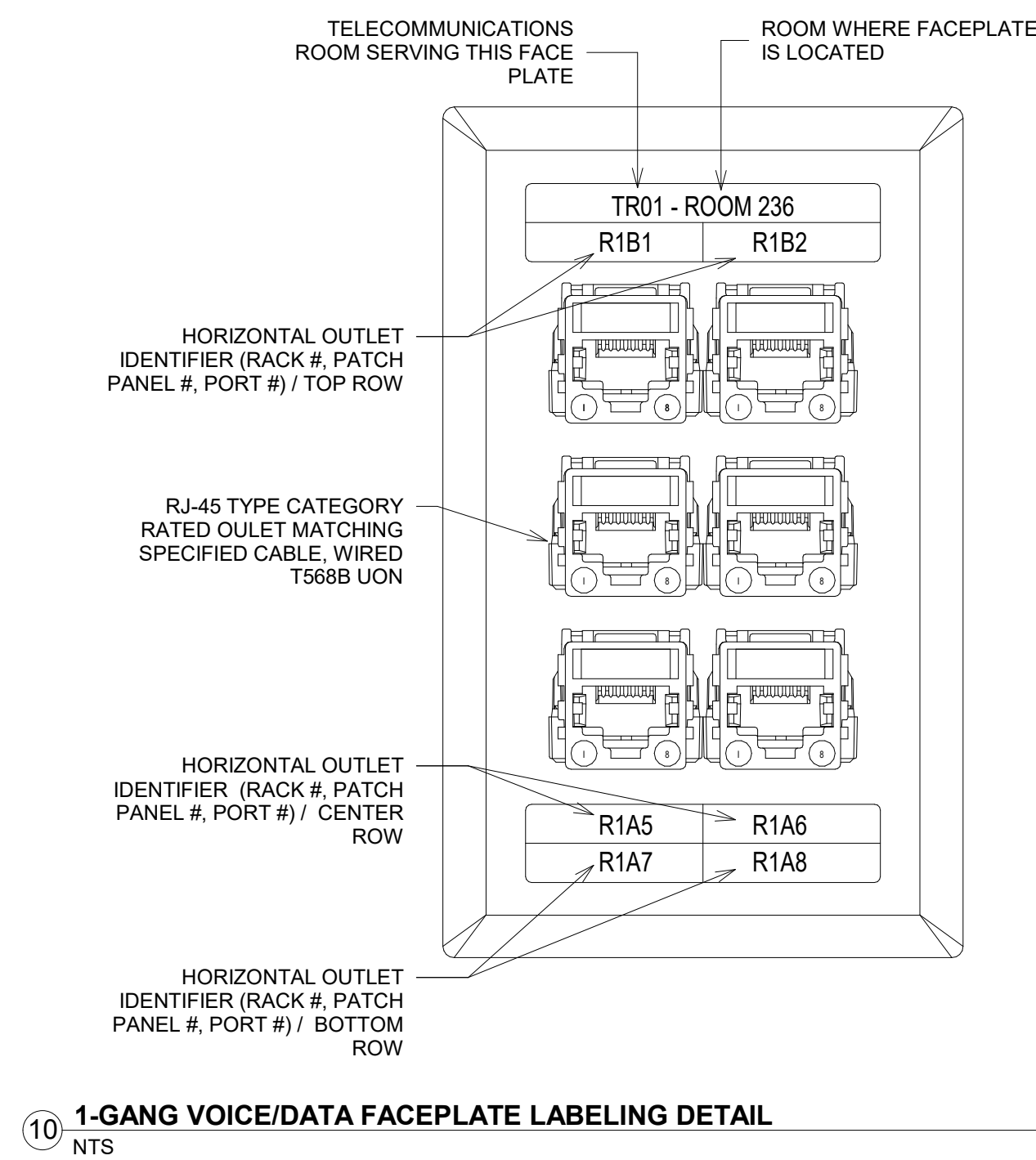
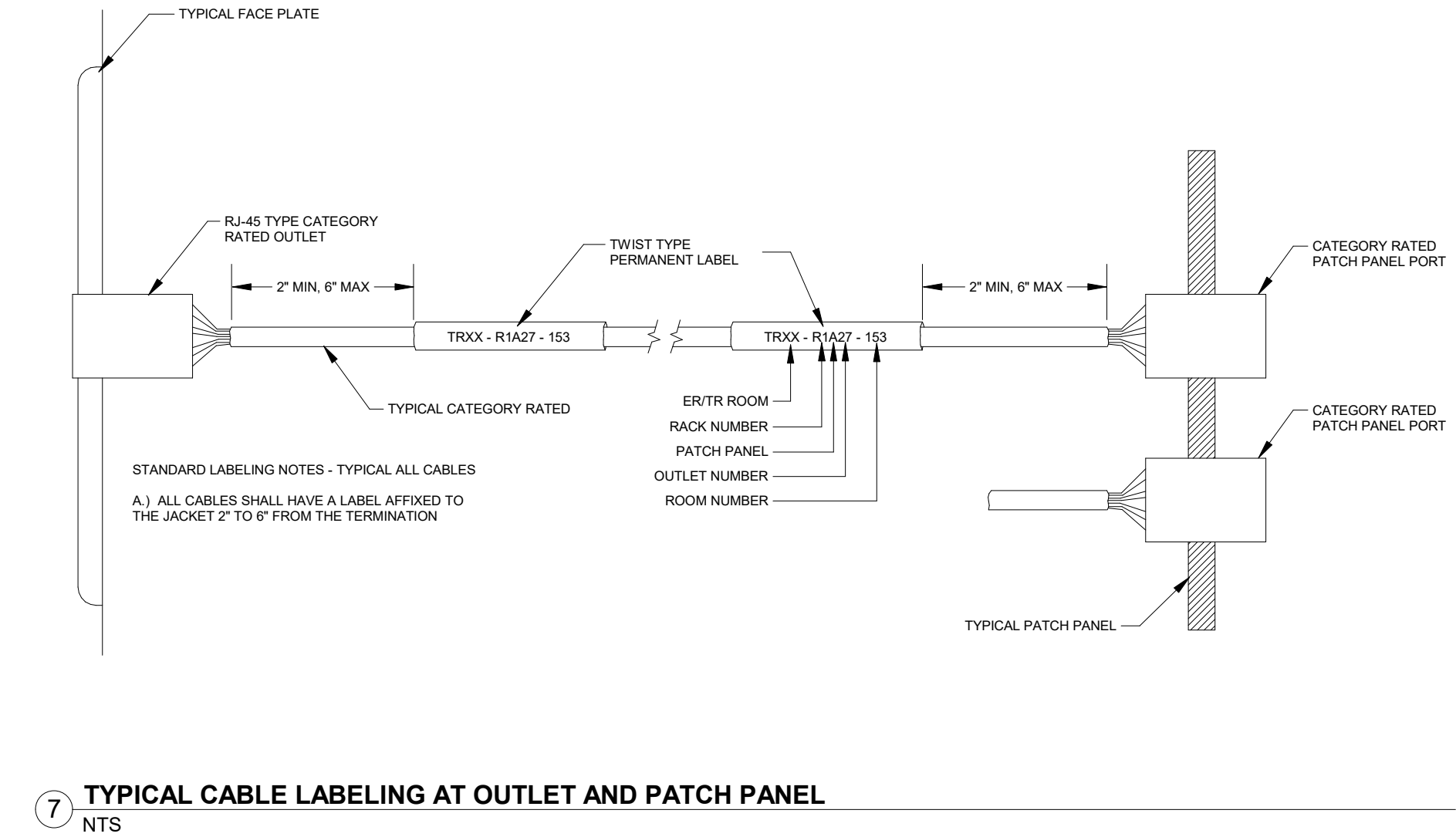
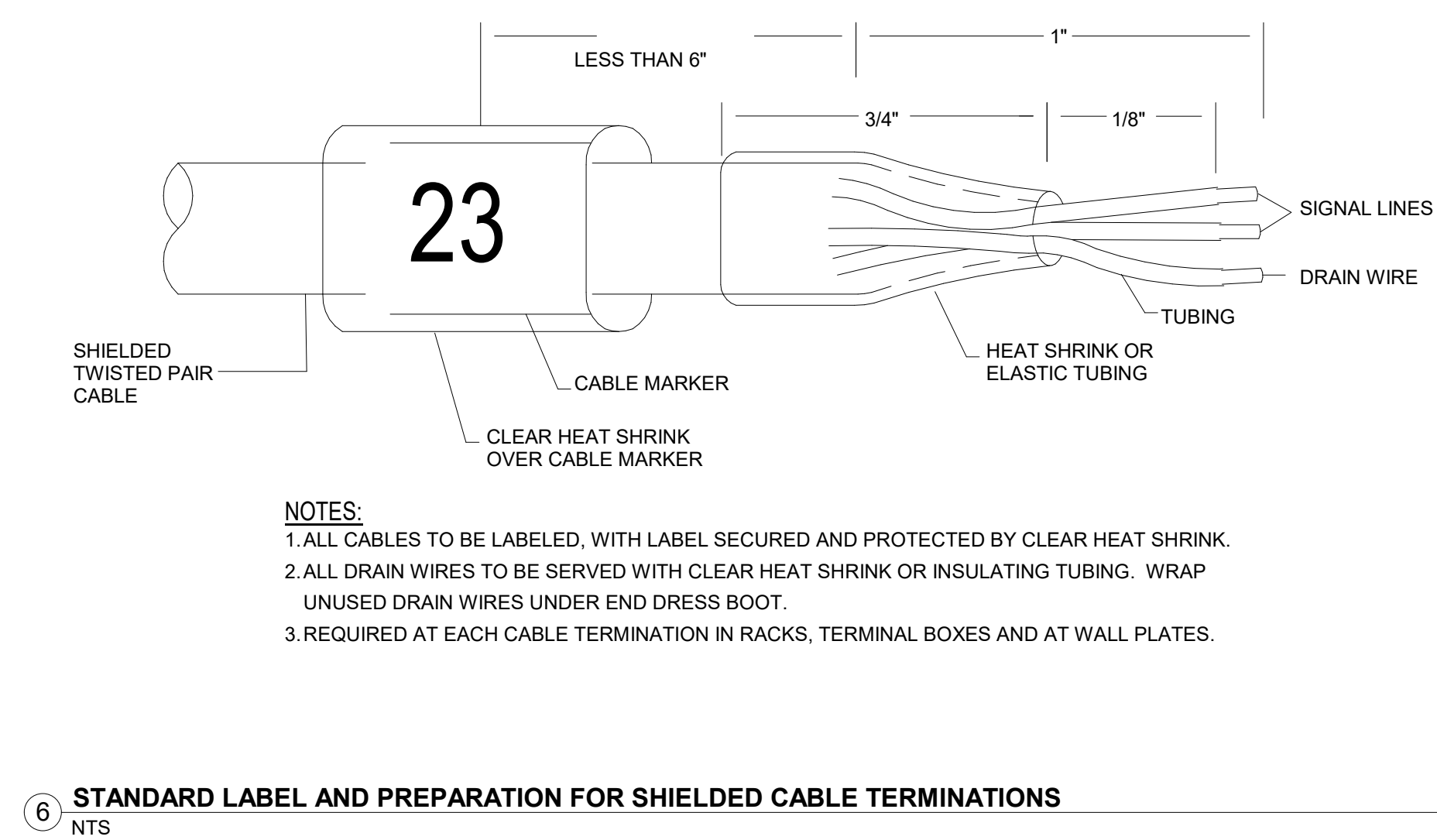
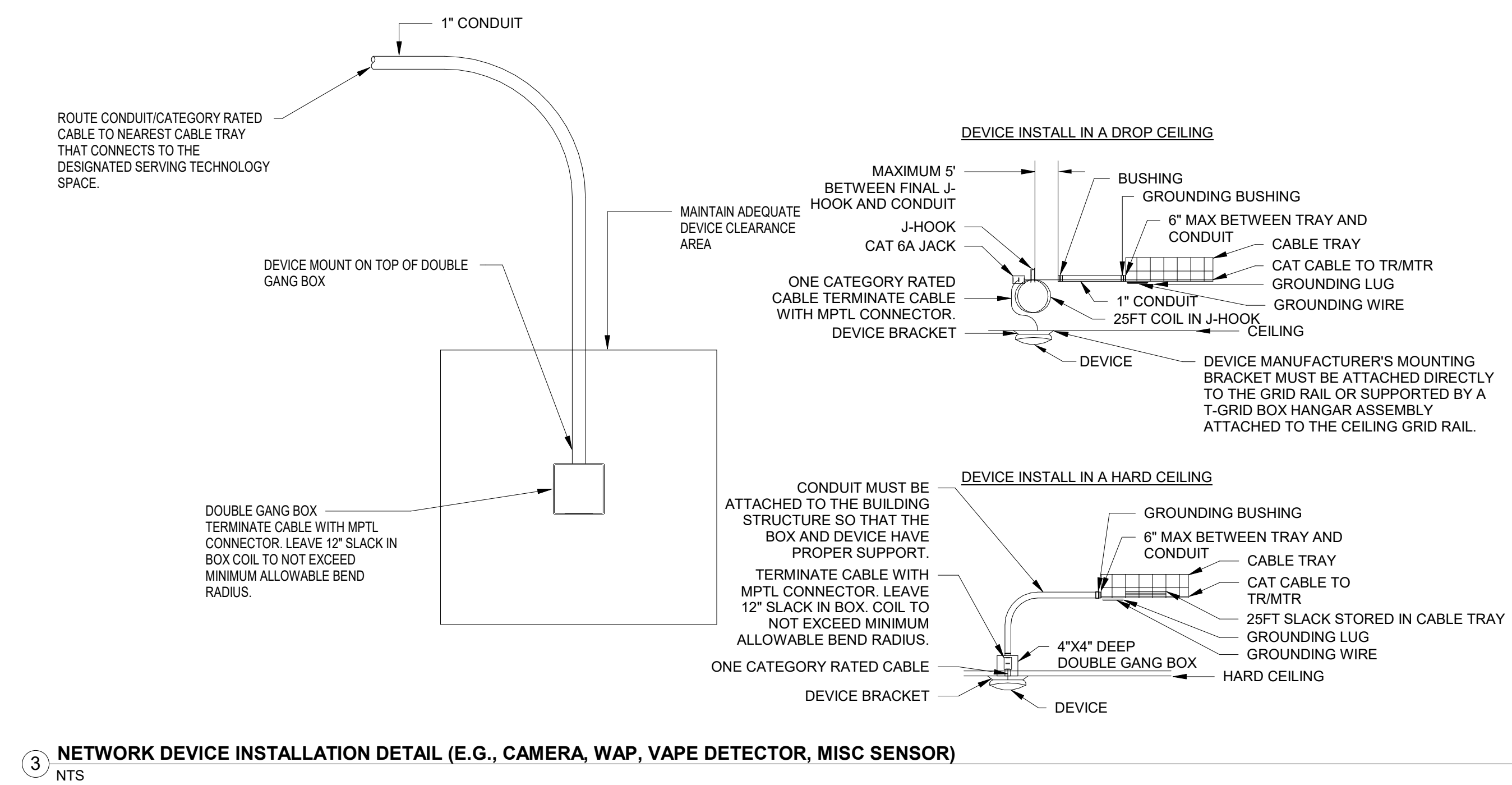
CONSULTANTS

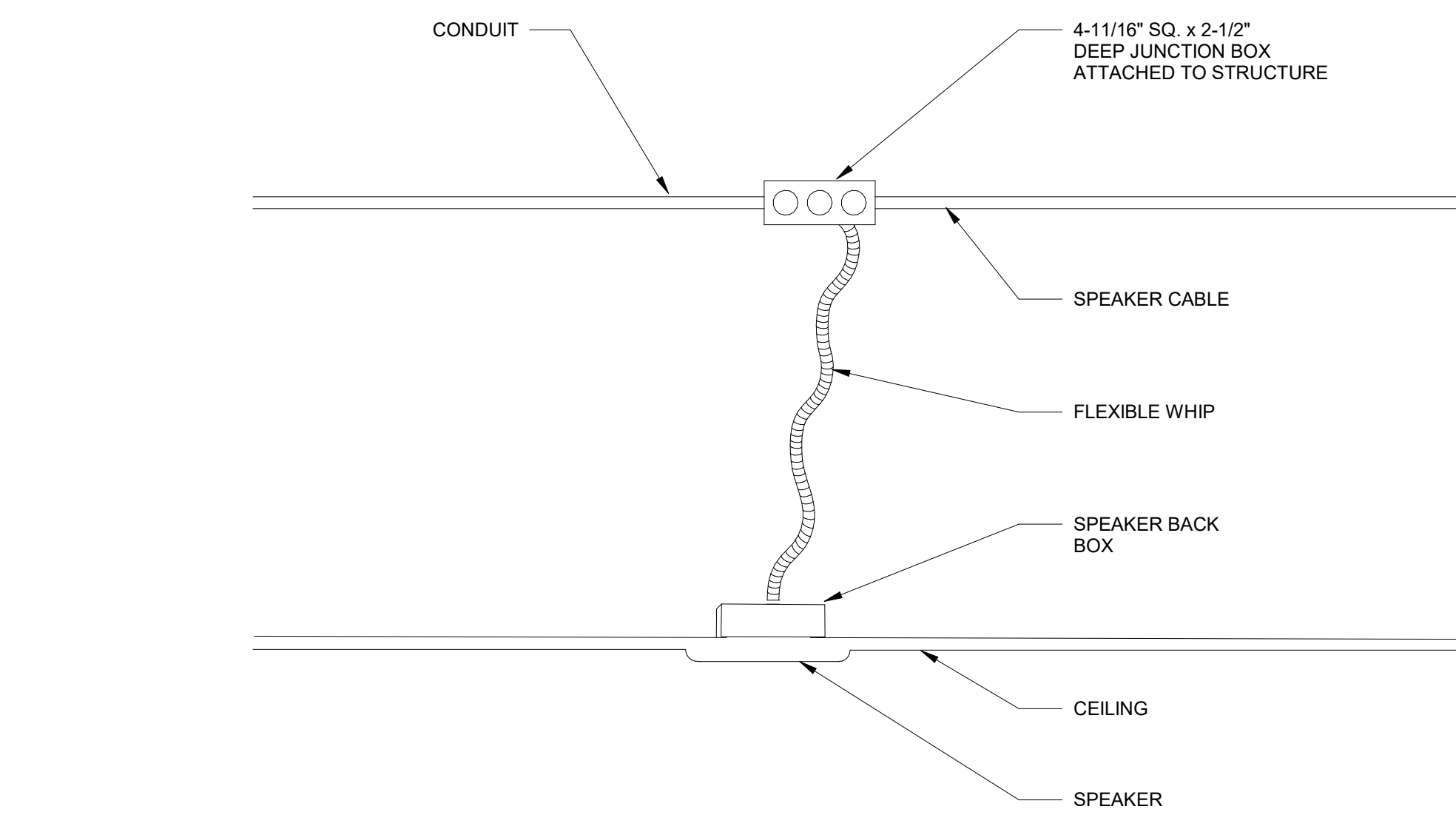
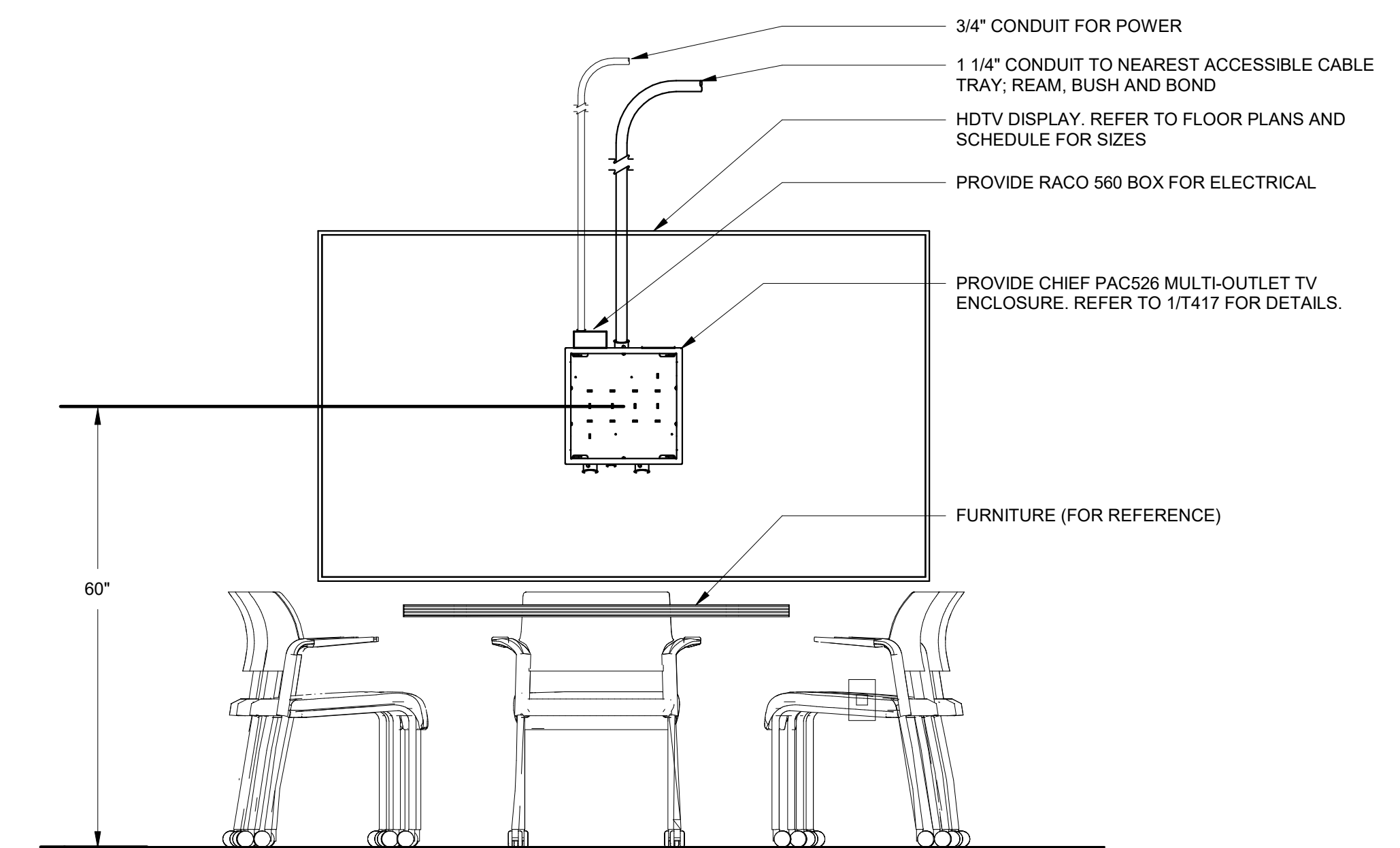
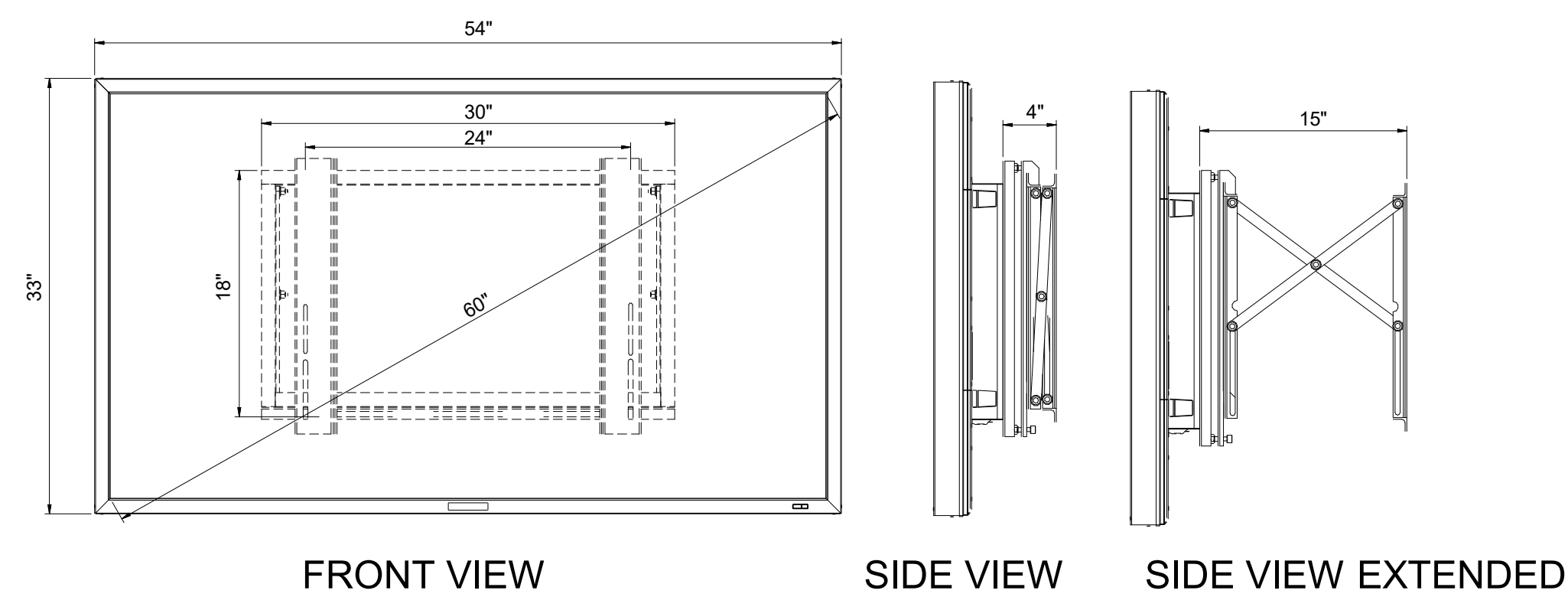
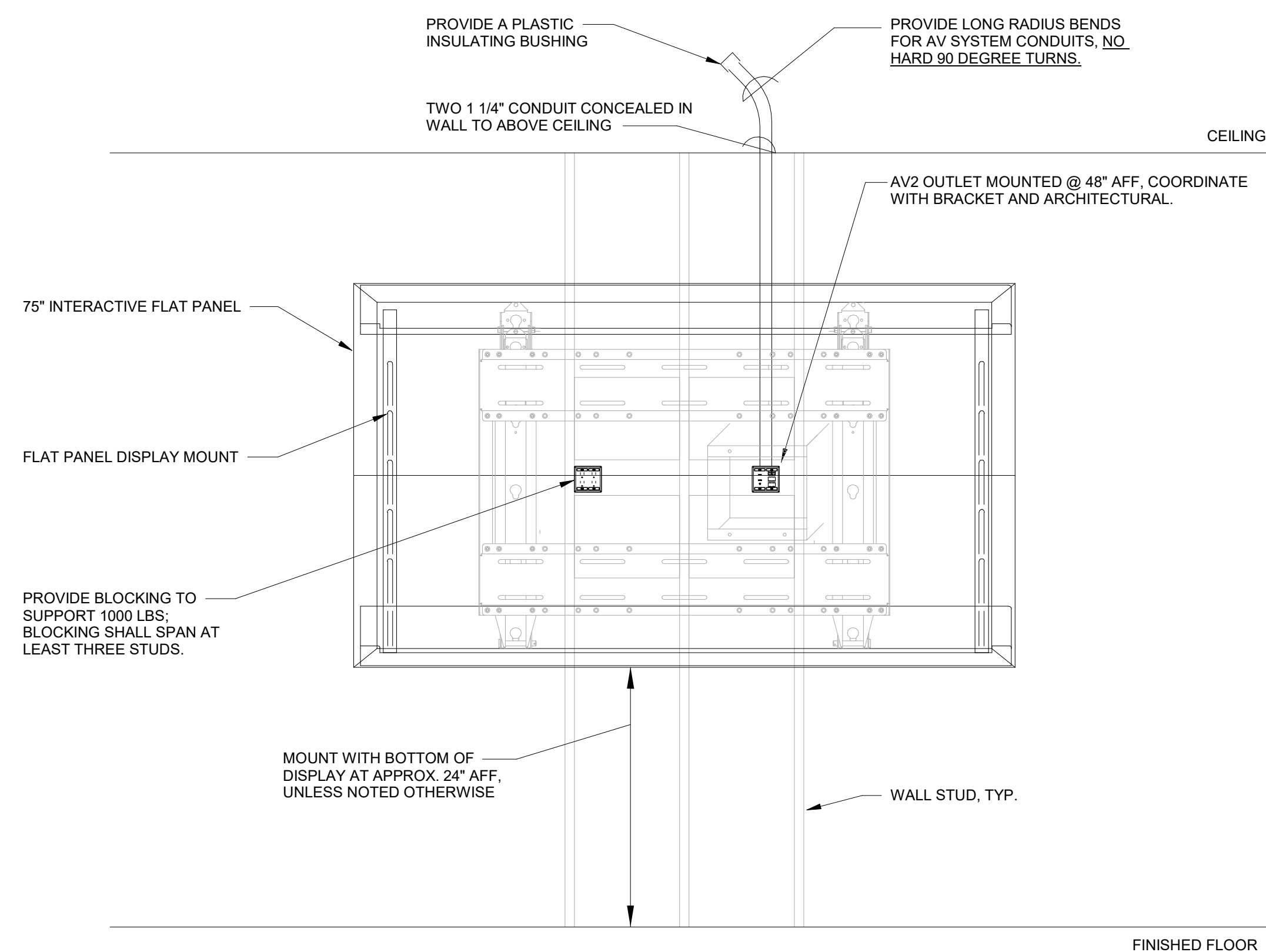
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Cliff A. Miller





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2 INTEGRATED SECURITY SYSTEM DETAIL



ACCESSIBLE CEILING DUAL SENSOR DOME MOUNTED CAMERA DETAIL

5 ACCESSIBLE CEILING DOME MOUNTED CAMERA DETAIL
NTS

6 S1 -360 SURFACE MOUNTED PIR MOTION SENSOR
NTS

7 S3 - ARM_DISARM KEYPAD DETAIL
NTS

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DISPLAY SCHEDULE								
DISPLAY SIZE	CENTER MOUNTING HEIGHT	INTERACTIVE DISPLAY	DIGITAL MEDIA PLAYER	PROXIMITY IN-WALL BOX	MOUNTED TO MOBILE CART	LEVEL	ROOM NUMBER	ROOM NAME

75°	60°	No	No	No	No
85°	60°	Yes	No	No	Yes
85°	60°	Yes	No	No	Yes
85°	60°	Yes	No	No	Yes
85°	60°	Yes	No	No	Yes
85°	60°	Yes	No	No	Yes
85°	60°	Yes	No	No	Yes
85°	60°	Yes	No	No	No
85°	60°	Yes	No	No	No
85°	60°	Yes	No	No	No
85°	60°	Yes	No	No	No

Grand total: 11

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Bicsi
Christy A Miller
BICSI ID # 109630
EXPIRES 12-31-27
RCDD

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**WARREN COUNTY
CAREER CENTER
MEDICAL ACADEMY**
3525 OH-48, Lebanon, OH 45036

PROJECT NO:
PROJECT
#263306.00

CHECKED BY:
Checker

DRAWN BY:
Author

DATE:
XX.XX.XXXX



AUDIO VISUAL SCHEDULES

T601

DEVICE ID	DOOR NUMBER	DOOR TYPE	DETAIL REFERENCE	DATA DROPS	CR - CARD READER IN	CR - CARD READER OUT	CR - MULLION MOUNTED	IC - INTERCOM	IC - INTERCOM HAVE VIDEO	DC - DOOR CONTACT	EH - ELECTRIC HINGE	EL - ELECTRIC LOCK	ES - ELECTRIC STRIKE	ML - MAGNETIC LOCK	MO - MORTISE LOCK	WL - WIRELESS LOCK	DR - DOOR RELEASE	DR CONNECTED DEVICE ID	MH - MAGNETIC HOLDBACK	EC - ELECTRIFIED CRASHBAR	RX - REQUEST TO EXIT BUTTON	RX - REQUEST TO EXIT MOTION	RX - REQUEST TO EXIT CRASHBAR	LS - LOCAL SOUND	SCHEDULED OPENING	DOOR HARDWARE SET NUMBER
A001	614	Axxx - Access Control Door		0	Yes	No	Yes	No	No	Yes	No	Yes	No	No	No	No	No		No		No	Yes	No	No		
A003	602	Axxx - Access Control Door		0	Yes	No	No	No	No	Yes	No	Yes	No	No	No	No	No		No		Yes	Yes	No	No		
A004	620	Axxx - Access Control Door		0	Yes	No	No	No	No	Yes	No	Yes	No	No	No	No	No		No		Yes	Yes	No	No		
A005	605	Axxx - Access Control Door		0	Yes	No	No	No	No	Yes	No	Yes	No	No	No	No	No		No		Yes	Yes	No	No		
A006	606	Axxx - Access Control Door		0	Yes	No	No	No	No	Yes	No	Yes	No	No	No	No	No		No		No	Yes	No	No		
A007	610	Axxx - Access Control Door		0	Yes	No	No	No	No	Yes	No	Yes	No	No	No	No	No		No		No	Yes	No	No		
A008	611	Axxx - Access Control Door		0	Yes	No	No	No	No	Yes	No	Yes	No	No	No	No	No		No		No	Yes	No	No		
A009	619	Axxx - Access Control Door		0	Yes	No	No	No	No	Yes	No	Yes	No	No	No	No	No		No		No	Yes	No	No		
A010	617	Axxx - Access Control Door		0	Yes	No	No	No	No	Yes	No	Yes	No	No	No	No	No		No		No	Yes	No	No		
A011	616	Axxx - Access Control Door		0	Yes	No	No	No	No	Yes	No	Yes	No	No	No	No	No		No		No	Yes	No	No		
A012	615	Axxx - Access Control Door		0	Yes	No	No	No	No	Yes	No	Yes	No	No	No	No	No		No		No	Yes	No	No		
A013		KP - Keypad for Alarm System																								
A014		MD - Wall Mount																								
A015		MD - Ceiling Mount																								
A016		MD - Ceiling Mount																								
A020		GB - Ceiling Mount																								
A017	609	Axxx - Access Control Door		0	Yes	No	No	No	No	Yes	No	Yes	No	No	No	No	No		No		No	No	No	No		
A018	613	Axxx - Access Control Door		0	Yes	No	No	No	No	Yes	No	Yes	No	No	No	No	No		No		No	No	No	No		

0

DEVICE ID	CAM SENSOR COUNT (F=FIXED P=PTZ)	LEVEL	DETAIL REFERENCE	MOUNTED HEIGHT AFF
V001	1F	T.O. SLAB		8' - 0"
V002	1F	T.O. SLAB		10' - 0"
V003	1F	T.O. SLAB		10' - 0"
V004	1F	T.O. SLAB		10' - 0"
V005	4F	T.O. SLAB		12' - 0"
V006	4F	T.O. SLAB		11' - 6"
V007	4F	T.O. SLAB		11' - 6"
V008	4F	T.O. SLAB		11' - 6"
V009	4F	T.O. SLAB		11' - 6"
V010	4F	T.O. SLAB		12' - 0"
V011	4F	T.O. SLAB		12' - 0"

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DATA DROP COUNT

DEVICE ID	DEVICE NAME	DATA DROP COUNT	DEVICE LOCATION LEVEL	DEVICE LOCATION LEVEL	DEVICE LOCATION ROOM NUMBER	DEVICE LOCATION ROOM NAME
TP-51	2 DATA	2				
TP-54	2 DATA	2				
TP-55	2 DATA	2				
72	AV1	2				
TP-63	2 DATA	2				
TP-64	2 DATA	2				
TP-65	2 DATA	2				
TP-66	2 DATA	2				
78	AV2	2				
TP-68	WAP - Ceiling Mounted 2 Data	2				
TP-69	WAP - Ceiling Mounted 2 Data	2				
TP-70	WAP - Ceiling Mounted 2 Data	2				
TP-71	WAP - Ceiling Mounted 2 Data	2				
TP-72	WAP - Ceiling Mounted 2 Data	2				
TP-73	WAP - Ceiling Mounted 2 Data	2				
TP-74	WAP - Ceiling Mounted 2 Data	2				
TP-75	WAP - Ceiling Mounted 2 Data	2				
TP-76	WAP - Ceiling Mounted 2 Data	2				
TP-77	WAP - Ceiling Mounted 2 Data	2				
TP-78	WAP - Ceiling Mounted 2 Data	2				
TP-79	WAP - Ceiling Mounted 2 Data	2				
TP-80	WAP - Ceiling Mounted 2 Data	2				
TP-81	WAP - Ceiling Mounted 2 Data	2				
Ax001	Axxx - Access Control Door	0				
V001	1F - SINGLE SENSOR 360 CAMERA - SURFACE CEILING MOUNT	1				
V002	1F - SINGLE SENSOR 360 CAMERA - SURFACE CEILING MOUNT	1				
V003	1F - SINGLE SENSOR 360 CAMERA - SURFACE CEILING MOUNT	1				
V004	1F - SINGLE SENSOR 360 CAMERA - SURFACE CEILING MOUNT	1				
V005	4F - QUAD SENSOR CAMERA - CORNER MOUNT	1				
V006	4F - QUAD SENSOR CAMERA - CORNER MOUNT	1				
V007	4F - QUAD SENSOR CAMERA - CORNER MOUNT	1				
V008	4F - QUAD SENSOR CAMERA - CORNER MOUNT	1				
V009	4F - QUAD SENSOR 180 CAMERA - SURFACE WALL MOUNT	1				
V010	4F - QUAD SENSOR 180 CAMERA - SURFACE WALL MOUNT	1				
V011	4F - QUAD SENSOR 180 CAMERA - SURFACE WALL MOUNT	1				
A003	Axxx - Access Control Door	0				
A004	Axxx - Access Control Door	0				
A005	Axxx - Access Control Door	0				
A006	Axxx - Access Control Door	0				
A007	Axxx - Access Control Door	0				
A008	Axxx - Access Control Door	0				
A009	Axxx - Access Control Door	0				
A010	Axxx - Access Control Door	0				
A011	Axxx - Access Control Door	0				
A012	Axxx - Access Control Door	0				
TP-100	1 DATA	1				
TP-101	1 DATA	1				
TP-102	1 DATA	1				
TP-103	1 DATA	1				
TP-104	1 DATA	1				
TP-105	1 DATA	1				
TP-106	1 DATA	1				
TP-107	1 DATA	1				
TP-108	1 DATA	1				
TP-109	1 DATA	1				
TP-110	1 DATA	1				
TP-111	1 DATA	1				
TP-112	1 DATA	1				
TP-113	1 DATA	1				
TP-114	1 DATA	1				
TP-115	1 DATA	1				
TP-116	1 DATA	1				
TP-117	1 DATA	1				
TP-118	1 DATA	1				
TP-119	1 DATA	1				
TP-120	1 DATA	1				
TP-121	1 DATA	1				
155	AV2	2				
156	AV2	2				
157	AV2	2				
158	AV2	2				
159	AV2	2				
160	AV2	2				
161	AV2	2				
162	AV2	2				
163	AV2	2				
164	AV1	2				
165	AV1	2				
166	AV1	2				
167	AV1	2				
168	AV1	2				
169	AV1	2				
170	AV3	2				
171	AV4	2				
TP-138	IP DIGITAL CLOCK - DUAL FACE WALL MOUNTED	1				
TP-139	IP DIGITAL CLOCK - DUAL FACE WALL MOUNTED	1				
TP-140	Digital Clock - Wall Mounted Digital Single Face Clock IP	1				
TP-141	Digital Clock - Wall Mounted Digital Single Face Clock IP	1				
TP-142	Digital Clock - Wall Mounted Digital Single Face Clock IP	1				
TP-143	Digital Clock - Wall Mounted Digital Single Face Clock IP	1				
TP-144	Digital Clock - Wall Mounted Digital Single Face Clock IP	1				
TP-145	Digital Clock - Wall Mounted Digital Single Face Clock IP	1				
TP-146	Digital Clock - Wall Mounted Digital Single Face Clock IP	1				
TP-147	Digital Clock - Wall Mounted Digital Single Face Clock IP	1				
TP-148	Digital Clock - Wall Mounted Digital Single Face Clock IP	1				
TP-149	Digital Clock - Wall Mounted Digital Single Face Clock IP	1				
A017	Axxx - Access Control Door	0				
A018	Axxx - Access Control Door	0				

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