



LEVIN PORTER ARCHITECTS

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Levin Porter Associates Inc. dba Levin Porter Architects

ADDENDUM

ADDENDUM NO. 01

September 23, 2026

**WARREN COUNTY CAREER CENTER
MEDICAL ACADEMY ADDITION
3525 NORTH STATE ROUTE 48
LEBANON, OHIO 45036**

**LEVIN PORTER ARCHITECTS
3011 NEWMARK DRIVE
MIAMISBURG, OHIO 45342**

LPA PROJECT NO. 263306.00

TO ALL BIDDERS:

This addendum including all items listed hereinafter, shall become a part of the documents, shall be taken into account in preparing the Proposal, and shall become a part of the Contract. The work under each branch shall be in accordance with the original specifications unless excepted in this Addendum.

This Addendum consists of 33 Drawings plus 4 attachments:

ITEM NO. 1: THE SPECIFICATIONS SHALL BE REVISED AS FOLLOWS:

- 1.1 Added Section: Specification Section 075419 – Polyvinylchloride Roofing Membrane.
 - This section will replace section 074500 – Thermoplastic Membrane Roofing
- 1.2 Revised Section: 002113 – Instructions to bidders
 - Updated Bid Opening Location
 - WCCC – Admin Office 3529 State Route 48 @ 2:00pm
- 1.3 Revised Section: 006500 – Project Forms
 - Updated Substantial Completion Date
 - Substantial Completion Date: July 31st 2027
- 1.4 Added Section: 101900 – Cubicle curtain and track



- 1.5 Added Section: Specification Section 05 73 00 – Decorative Metal Railings
 - Section added for exterior Anodized Aluminum Railings
- 1.6 Added Section: Specification Section 03 35 43 – Polished Concrete Finish
 - Section Added for the Polishing Finish of Level3, High Sheen finish / 800 grit
 - Joint Filling is required and color would be Grizzle Gray – Sherwin Williams
- 1.7 Added Section: Specification Section 11 68 00 – Playground Equipment
- 1.8 Added Section: Specification Section 32 18 13 – Synthetic Turf for playground
- 1.9 Added Section: Specification Section 329200 – Turf and Grasses

ITEM NO. 2: THE DRAWINGS SHALL BE REVISED AS FOLLOWS:

- 2.1 Reference: Sheet A101, FIRST FLOOR PLAN.
 - Dental Room 615
 - Removed Full Height Casework
 - Put equipment tagged 12.19 on the equipment plan
 - Added note 11.17 to additional existing equipment being relocated to the lab.
- 2.2 Reference: Sheet A601, DOOR SCHEDULE TYPES AND WINDOW ELEV.
 - Revised the door schedule to include Fire Rated door information.
 - Revised the door schedule to include Access Control information
 - Added door hardware set No. 11 to the drawings.
 - Updated quantities on Door hardware set 8
- 2.3 Reference: Sheet A201, EXTERIOR ELEVATIONS
 - Revised Keynote 10.54 to indicate Anodized aluminum handrail.
- 2.4 Reference: Sheet A311, WALL SECTIONS
 - Updated Keynote 10.54 to indicate Anodized aluminum handrail.
- 2.5 Reference: Sheet A502, EXTERIOR DETAILS
 - Updated Ramp Section to match structural Details.
 - Revised Keynote to indicate Anodized Aluminum Handrails
- 2.6 Reference: Sheet A121, REFLECTED CEILING PLAN
 - Cubicle Curtain and Track Keynote added
 - Roller Shade Keynote Added



2.7 Sheet S002

- Updated seismic information per geotechnical report in 010000 note 7.
- Added “Demolition” to the list of procedures in 010000 note 10
- Removed post installed anchor options in 033000 notes 5-8

2.8 Sheet S004

- Updated anchor bolt edge distances in “Column Base Plate Types”.
- Updated columns C4 and C5 base plate size.
- Added additional remarks to column schedule.
- Added pier “P4” and updated pier reinforcing in Pier Schedule.
- Updated footing depths for footing type 76 and 80.
- Added wall footing type W54.
- Updated Pier Type Detail.

2.9 Sheet S101

- Updated foundation plan notes to include geotechnical report information.
- Updated typical top of footing elevation in foundation plan notes.
- Fix detail reference callout in foundation plan notes.
- Updated piers to P4 at E1, B1, and B1.8.
- Updated P3 top of pier elevation.
- Updated foundation elevation for underground utilities at entrance.

2.10 Sheet S111

- Added edge of roof (EOR) dimensions.
- Updated rooftop unit location to match mechanical drawings.
- Added beam reactions.
- Updated roof deck opening framing steel in roof framing plan notes.

2.11 Sheet S201

- Removed text from braced frame elevation notes.
- Visually showing column block out in detail 2

2.12 Sheet S301

- Updated control joint information in detail 3
- Removed non applicable text in detail 4
- Section 12 removed and labeled as “Not Used”.
- Footing updated in section 13.

2.13 Sheet 302

- Added reference note to section 1.
- Added retaining wall section, section 2

2.14 Sheet 311

- Indicated CFMF studs are 6”, all applicable sections.



- Added angle orientation and field weld tag to section 2
 - Added angle orientation to section 3
 - Added various clarification information to section 4, 5 and 6
 - Updated design force callout in detail 8
- 2.15 Sheet E-002
- Typical Pole Base detail, revised height above grade
 - Lighting Fixture Schedule, Type OR1-No Equals
- 2.16 Sheet E-101
- Revised site lighting demo and New PL1 pole locations/circuitry
- 2.17 Sheet E-201
- Revised Construction Notes
 - Clarified exterior wall mounted light mounting heights.
- 2.18 Sheet E-301
- Dental (615): Revised location for panoramic x-ray receptacle.
- 2.19 Sheet T101
- Displays in surgical tech 601 and pre-nursing labs 605, 606, and 610 moved from the wall to owner-furnished video carts.
- 2.20 Sheet T201
- Card readers added at Doors 603, 604, 607, and 608
- 2.21 Sheet T602
- Access Control door schedule updated for the added openings; grand total revised to 22.
- 2.22 Sheet A411- Interior Elevations
- Updated interior elevation 29C to show the tall storage cabinets eliminated.
- 2.23 Sheet A141 Roof Plan
- Updated roof access ladder detail to be painted steel
- 2.24 Sheet G004 Life Safety Plan
- Updated egress note regarding temporary barriers during construction.
- 2.25 Sheet L100 – Playground Plan
- Sheet Added to the Project
- 2.26 Sheet L101 – Playground Details
- Sheet Added to the Project



- 2.27 Sheet C100
 - Updated exterior railing type
- 2.28 Sheet C111
 - Showed existing gas and sanitary lines per private utility locate
- 2.29 Sheet C120
 - Revised extents of gas and water line demolition.
 - Removed asphalt necessary for sanitary force main installation.
- 2.30 Sheet C130
 - Updated playground to match current LA plans including fencing, curbing, and ground cover
 - Replaced asphalt necessary for sanitary force main installation
- 2.31 Sheet C140
 - Revised extents/routing of proposed gas and water lines.
 - Installed new manhole just north of addition to help with sanitary / storm intersection
 - Revised underdrain route per new playground.
- 2.32 Sheet C141
 - Added utility crossings to profiles.
 - Revised storm lines to avoid conflict with proposed sanitary pipe
- 2.33 Sheet C150
 - Revised grading to match new playground

ITEM NO. 3: CLARIFICATIONS AS FOLLOWS:

- 3.1 There are two different materials called for the building entrance railings. Sheet A311 calls for Stainless Steel for the railings. Sheet A502 note 10.54 calls out aluminum railing. Please clarify what material is to be used.
 - The railings should be anodized aluminum railings as indicated on sheet A502 note 10.54
- 3.2 Detail 2 on sheet A141 calls out the ladder to be steel but detail 3 calls out the ladder to be aluminum. The specs call for the ladder to be aluminum. Please confirm.
 - The interior Ladder access the Roof hatch should be painted steel.
- 3.3 Oldcastle Building Envelope and W.A. Wilson are approved Glass Fabricators.
- 3.4 Disregard Laminated Glass, and Decorative Plastic Film on section 08 80 00
- 3.5 Engineering calculations are not required for the storefront system per section 08 43 13



- 3.6 Windborne-debris-resistant storefront and door systems are not required per Section 08 43 13. Please provide standard non-impact storefront and door systems.
- 3.4 Added Attachment – Soils Report
- 3.5 Added Attachment – Pre-Bid Sign in sheet and Agenda.
- 3.6 Reference Sheet S002 – Structural Steel Framing, Note F
- Disregard Note F. There is no applied fire-proofing on this project.
- 3.7 Substitution Request: Section 10 11 00 – Visual Display Units
- Claridge Products / K-Pro Specialty Products Approved as Equal
- 3.8 Question Regarding the Fire Alarm System: Are we treating this area as its own space or tying into an existing system with the rest of the building.
- The Fire Alarm for the addition is its own system. We are not tying into the existing building system. The FA for the addition needs to be a voice evac due to the occupant load and use group.
- 3.9 Duplex Sanitary Lift Station Delegated Design:
- The contractor shall provide the design and installation of the sanitary lift station and force main. The system shall be an outdoor duplex reversing grinder pump system with 2 auto-reversing grinder pumps with a capacity of 80 gpm each. Head to match field conditions (Zoeller 71HD series or equal) System to be complete with basin & lid, guide rails and chains for pump removal. UL listed control panel with alternator, alarm H-O-A toggle switches, run indicator lights for each pump, float switch status and fault indicators lights, control circuit transformer and breaker, dry alarm contacts with a weathertight (NEMA 4x) lockable enclosure. System to have a forced main discharge. Refer to site utility drawings for discharge connection location.

END OF ADDENDUM NO. 01



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MEETING MINUTES

PRE-BID MEETING MINUTES

Warren County Career Center
Medical Academy Addition
LPA Project No. 263306.00
September 23, 2026

Introduction of Key Personnel

Bid Date: October 5th, 2026 by 2:00 pm

Delivered to:

Katrina Hillard, Treasurer
Warren County Career Center
3529 North State Route 48
Lebanon, Ohio 45036

Bid Form: Submit two (2) copies. Mailed or hand delivered to the Administration Building. No electronic bid documents will be accepted. Please submit in a sealed envelope and marked "WARREN COUNTY CAREER CENTER – MEDICAL ACADEMY ADDITION".

Bid Security (submit with bid): Bid Guarantee and Contract Bond
Certified Check / Cashiers Check
Letter of Credit from a Surety Company

Non-Collusion Affidavit Form: Submit with bid.

Delinquent Personal Property Tax Affidavit: Submitted with bid.

Bid Items

- Single Prime Bid
- Scope of Work: Approximately 20,000 medical academy addition.
 1. All General Trades, Electrical Trades and Mechanical Trades work for a complete project.
 2. All site work and grading as indicated. This includes site utilities, paving and fencing.
 3. All technology items and rough-ins indicated including cameras, wireless access points and access controls.

- a. Classroom carts and monitors will be provided and installed by the Owner.

Alternates

- None.

Project Schedule

- Anticipated Award of Contract: October 15, 2026
- Notice to Proceed: October 16, 2026
- Construction Schedule:
 - Site available immediately
 - Substantial completion: July 31, 2027.

Addenda:

- Addendum 01 will be issued with minutes and attendance list from pre-bid meeting.
- Final addendum will be issued on September 30, 2026.
- Addendum items include:
 - Change of roof membrane to PVC.
 - Delegated design for a sanitary lift station.

Miscellaneous Items

- Project is not Prevailing Wage
- Project is tax exempt.
- Tobacco Free Policy.
- Building and zoning permits have been applied for and will be paid by the owner.
- Spoils will remain onsite and be placed at a location determined by the Owner.
- There are no tap fees or aid to construction costs for this project.
- Today's Bidder's Conference – Not mandatory for bidders.
- Questions about documents – All questions shall be submitted to Mike Huff: mhuff@levin-porter.com

Phone: 937-224-1931

Anyone wishing to visit the site for further investigation should contact Scott Toben at 513-578-1622.

Questions/Comments

1. Question: Is there a soils report?
Response: Yes. The soils report will be included in Addendum 01.

2. Question: Are there preferred HVAC controls?
Response: The controls will be an open protocol system and there is no preferred vendor. The existing system will not be extended into the new addition.
3. Question: The civil drawings show the removal of three light poles. The electrical drawings show the removal of one. Which is correct.
Response: The civil drawings are correct in showing the removal of three light poles. The electrical drawings will be clarified by addendum.
4. Question: How is temporary egress from the building being handled since the exit from the building where the addition is being constructed will be closed?
Response: Temporary egress will be through the Adult Ed area directing building occupants to the northeast corridor. Signage shall be installed by the contractor directing building occupants to that exit.

END OF MINUTES



**KOONTZ BRYANT
JOHNSON WILLIAMS**

September 15, 2026

Warren County Career Center
3525 N. State Route 48
Lebanon, Ohio 45036

Attn: Ms. Katrina Hillard
Treasurer

Re: Geotechnical Engineering Investigation for the Proposed Medical Science Addition to
the Warren County Career Center, Lebanon, Ohio; KBJW Report No. 40381-001-01-0926

Ms. Hillard:

Koontz Bryant Johnson Williams, Inc. (KBJW, formerly CBC Engineers & Associates, Ltd.) is pleased to submit our report of the geotechnical engineering investigation for the above-referenced project. The purpose of this study is to provide an evaluation of the physical characteristics of the soil strata and net allowable bearing capacities at the locations tested. Also noted are other conditions that might affect the design and/or construction of the proposed addition to the existing facility in Lebanon, Ohio based on the results of the testing.

For your convenience, the samples collected that were not used to perform the laboratory tests will be kept in our office for a period of three months. If you have any questions, or if we can be of further service, please call us.

Respectfully submitted,

Koontz Bryant Johnson Williams, Inc.

Deepa Nair, M.S., P.E.
Project Engineer

Mitchell T. Hardert, P.E.
Chief Engineer



DN/MTH/mt

ec: c/o Mike Huff-Levin Porter Architects (mhuff@levin-porter.com)

1-File

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SECTION I

TEXT



1.0 INTRODUCTION

Authorization to proceed with this investigation was given by Ms. Katrina Hillard of Warren County Career Center. Work was to proceed in accordance with KBJW Quotation No. 40381-001 Revision 1, dated August 17, 2026, and the terms and conditions of the contract attached thereto.

The proposed addition to the existing Warren County Career Center is to be constructed in Lebanon, Ohio. A Vicinity Map is presented in Figure 1 in Section III of this document.

2.0 WORK PERFORMED

2.1 FIELD WORK

Five (5) borings were made in the relative positions shown on the Boring Location Plan (Figure 2) in Section III with the locations being chosen by the project architect. The boring logs and resulting data are also included in Section III. The borings were made with an ATV mounted drilling rig using hollow-stem augers and employing standard penetration resistance methods (ASTM D-1586, which includes 140-pound hammer, 30-inch drop, and two-inch-O.D. split-spoon sampler) at maximum 2.5-foot intervals to the bottom of the borings. The disturbed split-spoon samples were visually classified, logged, sealed in moisture-proof jars, and taken to the KBJW laboratory for study. The depths where these "A"-type split-spoon samples were collected are noted on the boring logs.

2.2 LABORATORY WORK

Ten (10) natural moisture content determinations were made in accordance with ASTM D-4643. The results of these tests are tabulated in Table 1 as follows, and are also included in Section III of this report:



TABLE 1
RESULTS OF NATURAL MOISTURE CONTENT TESTS (ASTM D-4643)

BORING NO.	DEPTH INCREMENT, (FT.)	NATURAL MOISTURE CONTENT, %
KBJW-1	1.0 - 2.5	20.4
KBJW-1	3.5 - 5.0	23.6
KBJW-2	1.0 - 2.5	20.4
KBJW-2	3.5 - 5.0	20.7
KBJW-3	1.0 - 2.5	23.3
KBJW-3	3.5 - 5.0	23.6
KBJW-4	1.0 - 2.5	19.6
KBJW-4	3.5 - 5.0	23.4
KBJW-5	1.0 - 2.5	18.6
KBJW-5	3.5 - 5.0	25.4

3.0 SOIL CONDITIONS AND GROUNDWATER LEVELS

Borings KBJW-1 through KBJW-5 were made within the footprint of the proposed addition as shown on the Boring Location Plan (Figure 2 in Section III). The proposed project site was overlain by approximately 2 to 4 inches of topsoil (in all borings except boring KBJW-5) and existing asphalt pavement (in boring KBJW-5) consisting of approximately 5 inches of asphalt overlying 3 inches of gravel base underneath. The asphalt and/or topsoil was generally underlain by native, soft clayey soils extending to an approximate depth of 6.0 feet below the existing ground surface. SPT blow counts in the native clayey soils encountered in the borings varied from 3 to 10. Limestone and shale rock was encountered underneath the native soils in the performed borings as shown in the boring logs. The upper layers of rock are weathered and become competent (characterized by auger refusal) at approximate depths below existing site grade as shown in Table 2 below.



TABLE 2

APPROXIMATE DEPTHS TO COMPETENT BEDROCK AT THE CURRENT BORING LOCATIONS

BORING NO.	APPROXIMATE DEPTH TO COMPETENT BEDROCK (FT.)
KBJW-1	6.7
KBJW-2	7.1
KBJW-3	6.6
KBJW-4	7.1
KBJW-5	6.6

Groundwater observations were made during the drilling operations (by noting the depth of water on the drilling tools) and in the open boreholes following withdrawal of the drilling augers. Free groundwater was encountered at the time of drilling activities in the borings at the depths tabulated in Table 3 as follows at the time of drilling activities:

TABLE 3

DEPTH TO FREE GROUNDWATER AT THE TIME OF DRILLING ACTIVITIES
(AS MEASURED BENEATH THE EXISTING SITE GRADE)

BORING NO.	DEPTH TO GROUNDWATER DURING DRILLING ACTIVITIES (FT)	DEPTH TO GROUNDWATER AT THE COMPLETION OF DRILLING ACTIVITIES (FT)
KBJW-3	6.6	6.6
KBJW-4	5.0	6.0
KBJW-5	6.6	6.6

However, it should be noted that short-term water level readings are not necessarily a reliable indication of the groundwater level and that significant fluctuations may occur due to variations in rainfall and other factors. For specific questions on the soil conditions, please refer to the individual boring logs in Section III.

Based on the encountered soil conditions at the project site, the site classification was determined to be "Site Class C" per the Ohio Building Code. A "Site Class C" suggests that the soil materials are very dense soil/soft rock with more than 10.0 feet of soil between the rock surface and bottom of the foundation elements.



4.0 DISCUSSION AND RECOMMENDATIONS

4.1 PROJECT DESCRIPTION

Warren County Career Center is currently developing information regarding a proposed addition to the existing Warren County Career Center to be constructed in Lebanon, Ohio. No details of the proposed project regarding the structural loads of the proposed facility have been provided to us at this time. The following recommendations are based on the assumption that no unusual loading conditions or special settlement restrictions apply to the proposed project and the foundations for the future construction are proposed to be shallow foundations. Consequently, if the above information is incorrect or if changes are made, KBJW should be notified so that the new data can be reviewed.

4.2 BUILDING AREA

All existing pavement/topsoil/softer native soils should be stripped from the entire footprint of the spread footing foundations for the proposed construction. The existing softer native soils are not suitable for foundation support. Therefore, it is recommended that all topsoil, existing soils, and other deleterious materials encountered below the proposed foundations at the project site should be undercut to competent bedrock, and the removed softer soils replaced with engineered fill compacted to at least 95% of the maximum dry unit weight with a moisture content within 2% of the optimum moisture content as determined by modified Proctor test. In order to ensure the presence of suitable bearing material at the bottom of the foundation excavation, the bottom of the excavation should be observed and tested by a representative of this office.

Excavated material that is free of organic or objectionable materials can be reused as engineered fill. In general, any non-organic naturally-occurring soils can be used for structural fill. Cohesive soils with a Liquid Limit (LL) greater than 50, a Plasticity Index (PI) of greater than 25, or an organic content greater than 7 percent



as determined by Loss-on-Ignition (ASTM D2974) should not be used for engineered fill. The fill should contain no fragments whose greatest dimension is larger than half the thickness of the lift being placed. Available on-site soils appear to be suitable for reuse as engineered fill, however moisture adjustments will be required. Once the foundation locations are prepared according to these recommendations, spread-footing foundations can be placed on engineered fill placed directly on competent bedrock (as verified through field observations during construction). The spread footing elements bearing on these engineered fill materials can be designed for a net allowable bearing capacity of 2,000 psf. This net allowable bearing pressure can be increased by a factor of one-third when designing for transient loadings such as wind or earthquake ground motions. If higher bearing capacities are desirable, the footings could be extended to bear directly on competent shale/limestone rock (as verified through field observations during construction). The approximate depths to the competent rock across the project site are provided in Table 2 above. Such spread footing elements bearing directly on competent shale/limestone rock can be designed with a net allowable bearing pressure of 6000 lbs./sq. ft. If the new building structure is designed to rest partially on bedrock (non-yielding material) and partially on soil (somewhat yielding), expansion joints will need to be placed across the building superstructure to control the effects of differential settlement. The footing sections between expansion joints should be designed to bear on the same foundation material for the entire footing length between the joints.

All foundations should bear at a depth of at least 32 inches below the final grade for frost heave considerations. Interior footings (within permanently heated areas) can be located at nominal depths below the finished floor provided the undesirable materials are removed and replaced with engineered fill. Square and continuous footings for the structures should be designed at least 2.5 feet and 1.5 feet wide, respectively, even if the anticipated structure loadings would allow for smaller foundation element sizes. These recommendations are provided based on the assumption that native recommended bearing material is available at the bottom of



the footing excavations. As mentioned earlier, the existing layers of softer soils encountered in the borings are not suitable for foundation support, and KBJW should be retained to confirm the acceptability of the native bearing material at the recommended depths and verify the recommended bearing capacity once the excavation is completed before the engineered fill is placed and footings are poured.

All soil bearing foundations settle as the result of the externally applied loads. Settlement of the proposed structure should be anticipated, although such movements are estimated (based upon our experience in similar soils) to be well within the tolerable limits for the structure (i.e., the total settlement will be less than about 1 inch, while differential settlement will be limited to about one half of this value).

Backfill for utility trenches, foundation excavations, etc., within structures should be placed in successive, horizontal layers. Each layer should be compacted to 95% of the maximum modified Proctor dry unit weight within 2% of the optimum moisture content before the next layer is added. In no instance should puddling or jetting the backfill material be allowed as a compaction method. Any silty or clayey soils at foundation depth will soften and the bearing capacity will be reduced if water ponds in the excavation. Soils exposed in the bases of all satisfactory foundation excavations should be protected against any detrimental change in condition such as from disturbance, rain and freezing. Surface run-off water should be drained away from the excavation and not allowed to pond. If possible, all foundation concrete should be placed the same day the excavation is made. If this is not practical, the foundation excavations should be adequately protected. Also, for this reason, proper drainage should be maintained after construction.

All foundations should be located so that the least lateral clear distance between any two foundations will be at least equal to the difference in their bearing elevations (see Figure 3 in Section III of this document). If this distance cannot be maintained, the lower foundation should be designed to account for the load



imparted by the upper foundation. If this condition occurs adjacent to a below-grade wall, the wall should be designed for the additional lateral earth pressure due to the upper foundation.

4.2.1 LATERAL AND UPLIFT FORCES ON SHALLOW FOOTINGS

Lateral forces on the foundation elements can be resisted by passive lateral earth pressures against the opposite vertical face of the foundation and by friction along the soil/foundation interface. An allowable resisting passive earth pressure of 200 lbs./sq. ft., and coefficient of friction of 0.35, respectively, can be used for design purposes. The passive resistance should only be used for that portion of the foundation located at a depth greater than 2.5 feet beneath the final grade (Please see Figure 4 in Section III of this text). A factor of safety of 1.5 relative to the lateral capacity should be used in design. It should be noted that lateral movements, on the order of up to 0.5 inch, may occur to mobilize this lateral resisting force.

It is further recommended that only the weight of the footing and the total weight of the soil above and within the periphery of the footing be used for resisting uplift forces. A total soil unit weight of 120 lbs./cu. ft. should be used for these computations for backfill material compacted as recommended in Section 4.2 (Please see Figure 5 in Section III of this document). It is also recommended that a factor of safety of at least 1.5 be used in calculating uplift resistance due to the weight of the footing and the backfill soil.

4.2.2 LATERAL EARTH PRESSURES ON BELOW GRADE WALLS

The magnitude of lateral earth pressure against subsurface walls is dependent on the method of backfill placement, the type of backfill soil, drainage provisions and whether or not the wall is permitted to yield during and/or after placement of the backfill. When a wall is held rigidly against horizontal movement, the lateral pressure against the wall is greater than the "active" earth pressure that is typically used in the design of free-standing retaining walls. Therefore, rigid walls should be designed for



higher, "at-rest" pressures (using an at-rest lateral earth pressure coefficient, K_0), while yielding walls can be designed for active pressures (using an active lateral earth pressure coefficient, K_a).

For use in these computations, a total soil unit weight of 130 lbs/cu. ft. should be used. For below-grade walls, a coefficient of earth pressure at-rest (K_0) of 0.5 and a coefficient of "active" earth pressure of 0.33 are recommended, provided a well-graded granular material is used for backfill (Please see Figure 6 in Section III of this document). Also, a passive earth pressure coefficient of 2.75 should be used in design. The granular backfill material should extend upward and outward from the base of the wall on a slope not steeper than about 1 (horizontal) to 1 (vertical). This method of computation presumes that there will be no hydrostatic pressure due to water build-up.

It is recommended that the static weight per axle of equipment utilized for the compaction of the backfill materials not exceed 2 tons per axle for non-vibratory equipment and 1 ton per axle for vibratory equipment. All heavy equipment, including compaction equipment heavier than recommended above, should not be allowed closer to the wall (horizontal distance) than the vertical distance from the backfill surface to the bottom of the wall. If it is desired to use heavier compaction equipment adjacent to the below grade wall, it is recommended that this office be contacted to determine the resulting earth pressures.

4.2.3 SLABS-ON-GRADE

All existing topsoil/pavement and other deleterious/softer materials below the proposed floor slab should be excavated until native stiffer soil is reached. All exposed subgrade at the bottom of the slab-on-grade excavations should be compacted to at least 95% of the maximum dry unit weight with moisture content within 2% of the optimum moisture content as determined by the modified Proctor test before engineered fill/slab-on-grade placement. KBJW should be retained to



confirm the acceptability of the native bearing soils at the excavation depths before slabs-on-grade are poured. Slabs-on-grade can then be supported on new compacted structural fill.

It is recommended that all slabs-on-grade be "floating", that is, fully ground supported and not structurally connected to walls or foundations. This is to minimize the possibility of cracking and displacement of the slabs-on-grade because of differential movements between the slab and the foundation. Although the movements are estimated to be within the tolerable limits for structural safety, such movements could be detrimental to the slabs if they were rigidly connected to the foundations.

It is furthermore recommended that the slabs-on-grade be supported on a minimum 6-inch layer of relatively clean granular material such as sand and gravel or crushed stone. This is to help distribute concentrated loads and equalize moisture conditions beneath the slab. Proper drainage must be incorporated into this granular layer to preclude future wet areas in the finished slab-on-grade. However, all deleterious materials encountered during site preparation must be removed and replaced with select engineered fill that is compacted to the specifications previously outlined in Section 4.2 of this report. Provided that a minimum of 6 inches of granular material is placed below the new slab-on-grade, a modulus of subgrade reaction (k_{30}) of 75 lbs./cu. in. can be used for design of the slabs.

4.2.4 FOUNDATION EXCAVATIONS

Each foundation excavation should be inspected to insure that all loose, soft or otherwise undesirable material is removed and that the foundation will bear on satisfactory material.

If pockets of soft, loose or otherwise unsuitable material are encountered in the footing excavations and it is inconvenient to lower the footings, the proposed footing elevations may be re-established by backfilling after the undesirable material



has been removed. The undercut excavation beneath each footing should extend to suitable bearing soils and the dimensions of the excavation base should be determined by imaginary planes extending outward and down on a 1 (vertical) to 1 (horizontal) slope from the base perimeter of the footing as illustrated in Figure 7 in Section III. The entire excavation should then be refilled with a well-compacted engineered fill, or lean concrete (please note that the width of the lean concrete zone should be at least 1-foot wider than the width of the overlying footing element). Special care should be exercised to remove any sloughed, loose or soft materials near the base of the excavation slopes. Proper shoring techniques (designed by others) must be adopted during the excavation of the proposed footings below the bearing elevations of any nearby existing footings or utilities. All Federal, State, and Local regulations should be strictly adhered to including but not limited to excavation side-slope geometry and any required shoring.

5.0 SLOPE CONSIDERATIONS

A detailed slope stability analysis is beyond the scope of this study. However, it is, recommended that fill slopes less than 10 feet in height be designed for slopes not steeper than 2.5 (horizontal) to 1 (vertical). For any fill greater than 10 feet in height, it is recommended that slopes be not steeper than 3 (horizontal) to 1 (vertical).

In general, temporary cut slopes of 2 (horizontal) to 1 (vertical) should remain stable during a reasonable construction period provided they are not higher than about 10 feet and are not subjected to excessive vibration from construction equipment and are protected from surface erosion. The need for temporary bracing of utility trenches should be anticipated. In general, any permanent cut slopes should be no steeper than about 3 (horizontal) to 1 (vertical).

6.0 CONSTRUCTION DEWATERING

At the time of our investigation, the free groundwater level was encountered at depths that would appear to impact foundation undercut excavations. Therefore,



significant quantities of groundwater should be anticipated in the proposed foundation excavations due to the possible presence of sand and gravel zones. In order to maintain proper bearing support for the foundations, the entire foundation excavation area must be dewatered (groundwater level lowered) to at least 2 feet below the deepest excavation/footing bearing elevation prior to the placement of engineered fill and foundations, and the dewatering of the area maintained until the foundations are fully constructed. Sump pumping is generally a suitable method of dewatering in such areas where the required depth of groundwater to be lowered is generally less. Extra care must be exercised when pumping from sumps that extend into silts and other granular soils as observed at this site, as a general deterioration of the bearing soils and a localized "quick" condition could result. Extra care must also be exercised during pumping to ensure that the loss of fines does not occur and filter fabric should be used as necessary to maintain a soil-tight system. It is imperative that the dewatering of the foundation excavations and subgrade soils be continually maintained until the foundations are fully constructed, and they are providing confinement of the underlying soils. If the groundwater level is allowed to rise to the surface of the excavation areas without the surface being confined, detrimental softening and degradation of the foundation and subgrade soils should be expected that will require remedial measures in order to provide adequate support for the structure. The evaluation and design of any required temporary or permanent dewatering measures to facilitate proper construction and proper in-service conditions is the responsibility of others than KBJW.

7.0 SITE PREPARATION

All areas that will support foundations, and slabs-on-grade should be properly prepared. After rough grade has been established in cut areas and prior to placement of fill in all fill areas, the exposed subgrade should be carefully inspected by probing and testing as needed. Any topsoil or other organic material still in place, frozen, wet, soft or loose soil, and other undesirable existing materials should be removed and replaced with engineered fill. Aeration of the near-surface in-situ soils should be



anticipated prior to their placement as engineered fill (or chemical stabilization can also be used). The exposed subgrade should furthermore be inspected by proofrolling with a loaded tandem axle truck or other suitable equipment to check for pockets of soft material hidden beneath a thin crust of better soil. Any unsuitable materials thus exposed should be removed and replaced with well-compacted, engineered fill as outlined in the specifications of this document. However, it may also become necessary (due to the presence of soft exposed soil materials) to employ chemical stabilization or to locally incorporate ODOT No. 2 aggregate into the subgrade to increase its stiffness.

In general, care should be exercised during the grading operations at the site. Due to the nature of the near surface soils, the traffic of heavy equipment, including heavy compaction equipment, may create pumping and general deterioration of the shallower soils, especially if excess surface water is present. If this occurs, it may be necessary to utilize a biaxial/triaxial geogrid, chemical stabilization, or other methodology (such as the incorporation of ODOT No. 2 aggregate into the subgrade) to stabilize the disturbed subgrade. The grading, therefore, should be done during a dry season, if at all possible.

In addition, it must be emphasized that once engineered fill is properly placed on the project site, that these materials can also degrade significantly due to the effects of heavy construction traffic and wet weather. This degradation may in some cases require the excavation and replacement of the engineered fill with aerated, chemically-stabilized fill materials; hence, caution should be exercised to avoid such degradation of these soil materials.

It should be noted that when vibratory rollers are utilized on certain soil types (such as fine grain sands or silts), that shear induced pore water pressures may be developed within these materials which will result in significant "pumping" of these materials (even though these soils may be stiff and pass moisture density tests on engineered fills). Therefore (in these types of soils), it is imperative that the vibrator



not be utilized and that these soils be statically rolled in order to preclude the development of such shear induced pore water pressures. These shear induced pore water pressures dissipate over a number of days (depending on the permeability of the soil materials); however, in the short term, significant "pumping" of these materials can be witnessed in the field.

8.0 SOIL SWELLING POTENTIAL

Based upon the laboratory tests performed for this study and the mineralogy of typical soils from the general vicinity of the project site, no significant soil swelling is anticipated. To our knowledge, there are no instances of problems associated with soil swelling in the project vicinity.

9.0 LIQUEFACTION

When certain soils (generally only granular soils) below the groundwater table are subjected to dynamic loads, such as those produced by earthquakes, a sudden increase in pore water pressure occurs as the result of shearing of the soil particles past one another. In extreme cases, when these shear induced pore water pressures exceed the strength of the soil, the soil strength can reduce to zero thereby resulting in a phenomenon known as "liquefaction." Conditions at this site have been examined to determine the likelihood for liquefaction of the natural soils during earthquake ground motions.

Soil type, relative density, initial confining pressure (i.e., the depth of the potentially liquefiable soil below the ground surface) and the magnitude of potential ground motions are the most important factors in determining the liquefaction potential of a soil mass. It is generally agreed that saturated, relatively loose (with blow counts or "N" values typically less than about 13) in the upper 50 feet or so are most susceptible to liquefaction.



Clayey soils are generally considered to be non-vulnerable to liquefaction. It is, therefore, concluded that liquefaction (or any significant loss of strength) of the soils underlying the project site during earthquake ground motions is extremely unlikely. To our knowledge, there are no recorded cases of liquefaction of subsurface materials similar to those at this project site. Therefore, no special design measures relative to soil liquefaction appear to be warranted.

10.0 BURIED UTILITY PIPES

Excavations for buried utility pipelines should follow the guidelines set forth previously in this report. Depending on the pipeline material, a minimum thickness of at least 0.5 foot of select fine-grained granular bedding material should be used beneath all below-grade pipes, with a minimum cover thickness of at least 3 feet to afford an "arching" effect and reduce stresses on the pipe. The cover thickness may be reduced if the external loading condition on the pipe is relatively light or if the pipe is designed to withstand the external loading condition. It is not recommended that "pea-gravel" or other "open-work" aggregates be used for trench backfill since these materials are nearly impossible to compact and have a tendency to pond water within their interstices.

11.0 DRAINAGE

Adequate drainage should be provided at the site to minimize any increase in moisture content of the foundation soils. The exterior grade (including all parking areas) should be sloped away from all facility structures to prevent ponding of water.

12.0 CLOSURE

12.1 BASIS OF RECOMMENDATIONS

The evaluations, conclusions, and recommendations in this report are based on our interpretation of the field and laboratory data obtained during the exploration, our understanding of the project and our experience with similar sites and subsurface



conditions. Data used during this exploration included, but were not necessarily limited to:

- Five (5) exploratory borings performed during this study,
- observations of the project site by our staff,
- results of the laboratory soil tests,
- site plans and drawings furnished by the client/project team;
- supportive interaction with the client/project team; and
- published soil or geologic data of this area.

In the event that changes in the project characteristics are planned, or if additional information or differences from the conditions anticipated in this report become apparent, KBJW, should be notified so that the conclusions and recommendations contained in this report can be reviewed and, if necessary, modified or verified in writing.

12.2 LIMITATIONS OF STUDY/RECOMMENDED ADDITIONAL SERVICES

The subsurface conditions discussed in this report and those shown on the boring logs represent an estimate of the subsurface conditions based on interpretation of the boring data using normally accepted geotechnical engineering judgments. Although individual test borings are representative of the subsurface conditions at the boring locations on the dates shown, they are not necessarily indicative of subsurface conditions at other locations or at other times.

Regardless of the thoroughness of a subsurface exploration, there is the possibility that conditions between borings will differ from those at the boring locations, that conditions are not as anticipated by designers, or that the construction process has altered the soil conditions. As variations in the soil profile are encountered, additional subsurface sampling and testing may be necessary to provide data required to re-evaluate the recommendations of this report. Consequently,



after submission of this report it is recommended that KBJW be authorized to perform additional services to work with the designer(s) to minimize errors and omissions regarding the interpretation and implementation of this report.

Prior to construction, we recommend that KBJW.:

- work with the designers to implement the recommended geotechnical design parameters into plans and specifications,
- consult with the design team regarding interpretation of this report,
- establish criteria for the construction observation and testing for the soil conditions encountered at this site; and
- review final plans and specifications pertaining to geotechnical aspects of design.

During construction, we recommend that KBJW:

- observe the construction, particularly the site preparation, fill placement, and foundation excavation or installation,
- perform in-place density testing of all compacted fill,
- perform materials testing of soil and other materials as required; and
- consult with the design team to make design changes in the event that differing subsurface conditions are encountered.

If KBJW is not retained for these services, we shall assume no responsibility for construction compliance with the design concepts, specifications or recommendations.

12.3 WARRANTY

Our professional services have been performed, our findings obtained and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices. No other warranty, expressed or implied, is made.



While the services of KBJW are a valuable and integral part of the design and construction teams, we do not warrant, guarantee, or insure the quality or completeness of services provided by other members of those teams, the quality, completeness, or satisfactory performance of construction plans and specifications which we have not prepared, nor the ultimate performance of building site materials.

12.3.1 SUBSURFACE EXPLORATION

Subsurface exploration is normally accomplished by test borings, although test pits are sometimes employed. The method of determining the boring location and the surface elevation at the boring is noted in the report and is presented on the Boring Location Plan or on the boring log. The location and elevation of the boring should be considered accurate only to the degree inherent with the method used.

The boring log includes sampling information, description of the materials recovered, approximate depth of boundaries between soil and rock strata and groundwater data. The boring log represents conditions specifically at the location and time the boring was made. The boundaries between different soil strata are indicated at specific depths; however, these depths are in fact approximate and are somewhat dependent upon the frequency of sampling (The transition between soil strata is often gradual). Free groundwater level readings are made at the times and under conditions stated on the boring logs (Groundwater levels change with time and season). The borehole does not always remain open sufficiently long enough for the measured water level to coincide with the groundwater table.

12.3.2 LABORATORY AND FIELD TESTS

Laboratory and field tests are performed in accordance with specific ASTM standards unless otherwise indicated. All determinations included in a given ASTM standard are not always required and performed. Each test report indicates the measurements and determinations actually made.



12.3.3 ANALYSIS AND RECOMMENDATIONS

The geotechnical report is prepared primarily to aid in the engineering design of site work and structural foundations. Although the information in the report is expected to be sufficient for these purposes, it is not intended to determine the cost of construction or to stand alone as a construction specification.

Our engineering report recommendations are based primarily on data from test borings made at the locations shown on a boring location plan included in this report. Soil variations may exist between borings and these variations may not become evident until construction. If significant variations are then noted, the geotechnical engineer should be contacted so that field conditions can be examined and recommendations revised if necessary.

The geotechnical engineering report states our understanding as to the location, dimensions and structural features proposed for the site. Any significant changes in the nature, design, or location of the site improvements **MUST** be communicated to the geotechnical engineer such that the geotechnical analysis, conclusions, and recommendations can be appropriately adjusted. The geotechnical engineer should be given the opportunity to review all drawings that have been prepared based on their recommendations.

12.3.4 CONSTRUCTION MONITORING

Construction monitoring is a vital element of complete geotechnical services. The field engineer/inspector is the owner's "representative" observing the work of the contractor, performing tests as required in the specifications, and reporting data developed from such tests and observations. The field engineer or inspector does not direct the contractor's construction means, methods, operations or personnel. The field inspector/engineer does not interfere with the relationship between the owner and the contractor and, except as an observer, does not become a substitute owner on site. The field inspector/engineer is responsible for his own safety but has no



responsibility for the safety of other personnel at the site. The field inspector/engineer is an important member of a team whose responsibility is to watch and test the work being done and report to the owner whether that work is being carried out in general conformance with the plans and specifications.

12.3.5 GENERAL

The scope of our services did not include an environmental assessment for the presence or absence of hazardous or toxic materials in the soil, surface water, groundwater or air, on, within or beyond the site studied. Any statements in the report or on the boring logs regarding odors, staining of soils or other unusual items or conditions observed are strictly for the information of our client.

To evaluate the site for possible environmental liabilities, we recommend an environmental assessment, consisting of a detailed site reconnaissance, a record review, and report of findings. Additional subsurface drilling and samplings, including groundwater sampling, may be required. KBJW can provide this service and would be pleased to provide a cost proposal to perform such a study, if requested.

This report has been prepared for the exclusive use of Warren County Career Center, for specific application to the proposed addition to the existing facility to be constructed in Lebanon, Ohio (see Figure 1 in Section III of this report). Specific design and construction recommendations have been provided in the various sections of the report. The report shall, therefore, be used in its entirety. This report is not a bidding document and shall not be used for that purpose. Anyone reviewing this report must interpret and draw their own conclusions regarding specific construction techniques and methods chosen. KBJW is not responsible for the independent conclusions, opinions or recommendations made by others based on the field exploratory and laboratory test data presented in this report.

SECTION II
SPECIFICATIONS



I - ENGINEERED FILL BENEATH STRUCTURES

CLEARING AND GRADING SPECIFICATIONS

1.0 GENERAL CONDITIONS

The Contractor shall furnish all labor, materials, and equipment, and perform all work and services necessary to complete in a satisfactory manner the site preparation, excavation, filling, compaction and grading as shown on the plans and as described therein.

This work shall consist of all clearing and grading, removal of existing structures unless otherwise stated, preparation of the land to be filled, filling of the land, spreading and compaction of the fill, and all subsidiary work necessary to complete the grading of the cut and fill areas to conform with the lines, grades, slopes, and specifications.

This work is to be accomplished under the constant and continuous supervision of the Owner or his designated representative.

In these specifications the terms "approved" and "as directed" shall refer to directions to the Contractor from the Owner or his designated representative.

2.0 SUBSURFACE CONDITIONS

Prior to bidding the work, the Contractor shall examine, investigate and inspect the construction site as to the nature and location of the work, and the general and local conditions at the construction site, including without limitation, the character of surface or subsurface conditions and obstacles to be encountered on and around the construction site; and shall make such additional investigation as he may deem necessary for the planning and proper execution of the work. Borings and/or soil investigations shall have been made. Results of these borings and studies will be made available by the Owner to the Contractor upon his request, but the Owner is not responsible for any interpretations or conclusions with respect thereto made by the Contractor on the basis of such information, and the Owner further has no responsibility for the accuracy of the borings and the soil investigations.

If conditions other than those indicated are discovered by the Contractor, the Owner should be notified immediately. The material which the Contractor believes to be a changed condition should not be disturbed so that the Owner can investigate the condition.

3.0 SITE PREPARATION

Within the specified areas, all trees, brush, stumps, logs, tree roots, and structures scheduled for demolition shall be removed and disposed of.

All cut and fill areas shall be properly stripped. Topsoil will be removed to its full depth and stockpiled for use in finish grading. Any rubbish, organic and other objectionable soils, and other deleterious material shall be disposed of off the site, or as directed by the Owner or his designated representative if on site disposal is provided. In no case shall such objectionable material be allowed in or under the fill unless specifically authorized in writing.



Prior to the addition of fill, the original ground shall be compacted to job specifications as outlined below. Special notice shall be given to the proposed fill area at this time. If wet spots, spongy conditions, or groundwater seepage is found, corrective measures must be taken before the placement of fill.

4.0 FORMATION OF FILL AREAS

Fills shall be formed of satisfactory materials placed in successive horizontal layers of not more than eight (8) inches in loose depth for the full width of the cross-section. The depth of lift may be increased if the Contractor can demonstrate the ability to compact a larger lift. If compaction is accomplished using hand-tamping equipment, lifts will be limited to 4-inch loose lifts. Engineered fill placed shall be compacted to at least 95% of the maximum dry unit weight with a moisture content within 2% of the optimum moisture content as determined by the modified Proctor test.

All material entering the fill shall be free of organic matter such as leaves, grass, roots, and other objectionable material.

The operations on earth work shall be suspended at any time when satisfactory results cannot be obtained because of rain, freezing weather, or other unsatisfactory conditions. The Contractor shall keep the work areas graded to provide the drainage at all times.

The fill material shall be of the proper moisture content before compaction efforts are started. Wetting or drying of the material and manipulation to secure a uniform moisture content throughout the layer shall be required. Should the material be too wet to permit proper compaction or rolling, all work thus affected shall be delayed until the material has dried to the required moisture content. The moisture content of the fill material should be no more than two (2) percentage points higher or lower than optimum unless otherwise authorized. Sprinkling shall be done with equipment that will satisfactorily distribute the water over the disced area. Any areas inaccessible to a roller shall be consolidated and compacted by mechanical tampers. The equipment shall be operated in such a manner that hardpan, cemented gravel, clay or other chunky soil material will be broken up into small particles and become incorporated with the other material in the layer. The fill shall contain no fragments whose greatest dimension is larger than 1/2 of the thickness of the lift being placed.

In the construction of filled areas, starting layers shall be placed in the deepest portion of the fill, and as placement progresses, additional layers shall be constructed in horizontal planes. Original slopes shall be continuously, vertically benched to provide horizontal fill planes. The size of the benches shall be formed so that the base of the bench is horizontal and the back of the bench is vertical. As many benches as are necessary to bring the site to final grade shall be constructed. Filling operations shall begin on the lowest bench, with the fill being placed in horizontal eight (8) inch thick loose lifts unless otherwise authorized. The filling shall progress in this manner until the entire first bench has been filled, before any fill is placed on the succeeding benches. Proper drainage shall be maintained at all times during benching and filling of the benches, to insure that all water is drained away from the fill area.

Frozen material shall not be placed in the fill nor shall the fill be placed upon frozen material.



The Contractor shall be responsible for the stability of all fills made under the contract, and shall replace any portion, which in the opinion of the Owner or his designated representative, has become displaced due to carelessness or negligence on the part of the Contractor. Fill damaged by inclement weather shall be repaired at the Contractor's expense.

5.0 SLOPE RATIO AND STORM WATER RUN-OFF

Slopes shall not be greater than 3 (horizontal) to 1 (vertical) in both cut and fill, or as illustrated on the construction drawings. Excavations shall be constructed in accordance with all Federal, State and local codes relative to slope geometry.

6.0 GRADING

The Contractor shall furnish, operate, and maintain such equipment as is necessary to construct uniform layers, and control smoothness of grade for maximum compaction and drainage.

7.0 COMPACTING

The compaction equipment shall be approved equipment of such design, weight, and quantity to obtain the required density in accordance with these specifications.

8.0 TESTING AND INSPECTION SERVICES

Testing and inspection services will be provided by the Owner.

SECTION III

BORING LOGS, LAB TESTING RESULTS, & FIGURES

BORING LOG TERMINOLOGY

STRATUM DEPTH

Distance in feet and/or inches below ground surface.

STRATUM ELEVATION

Elevation in feet below ground surface elevation.

DESCRIPTION OF MATERIALS

Major types of soil material existing at boring location. Soil classification based on one of the following systems: Unified Soil Classification System, Ohio State Highway Classification System, Highway Research Board Classification System, Federal Aviation Authority Classification System, Visual Classification.

SAMPLE NO.

Sample numbers are designated consecutively, increasing with depth for each boring.

SAMPLE TYPE

“A” Split spoon, 2” O.D., 1-3/8” I.D., 18” in length.

“B” One of the following:

- Power Auger Sample
- Piston Sample
- Diamond Bit NX: BX: AX:
- Housel Sample
- Wash Sample
- Denison Sample

“C” Shelby Tube 3” O.D. except where noted.

SAMPLE DEPTH

Depth below top of ground at which appropriate sample was taken.

BLOWS PER 6” ON SAMPLER

The number of blows required to drive a 2” O.D., 1-3/8” I.D., split spoon sampler, using a 140 pound hammer with a 30 inch free fall, is recorded for 6” drive increments. (Example: 3/8/9)

“N” BLOWS/FT.

Standard penetration resistance. This value is based on the total number of blows required for the last 12” of penetration. (Example: 3/8/9 $\therefore N = 8 + 9 = 17$)

WATER OBSERVATIONS

Depth of water recorded in test boring is measured from top of ground to top of water level. Initial depth indicates water level during boring, completion depth indicates water level immediately after boring, and depth of "X" number hours indicates water level after letting water rise or fall over a time period. Water observations in pervious soil are considered reliable ground water levels for that date. Water observations in impervious soils can not be considered accurate ground water measurements for that date unless records are made over several days' time. Factors such as weather, soil porosity, etc., will cause the ground water level to fluctuate for both pervious and impervious soils.

SOIL DESCRIPTION

COLOR

When the color of the soil is uniform throughout, the color recorded will be such as brown, gray, black and may be modified by adjectives such as light and dark. If the soil's predominant color is shaded by a secondary color, the secondary color precedes the primary color, such as: gray-brown, yellow-brown. If two major and distinct colors are swirled throughout the soil, the colors will be modified by the term mottled, such as: mottled brown and gray.

PARTICLE SIZE	VISUAL	SOIL COMPONENTS	
Boulders	Larger than 8"	Major Component	Minor Component Term
Cobbles	8" to 3"	Gravel	Trace 1-10%
Gravel—Coarse	3" to ¾"	Sand	Some 11-35%
Fine	2 mm. To ¾"	Silt	And 36-50%
Sand —Coarse	2 mm.-0.6 mm. (Pencil lead size)	Clay	
—Medium	0.6 mm.-0.2 mm.	Moisture Content	
	(Table sugar and salt size)	Term	Relative Moisture
—Fine	0.2 mm.-0.06 mm.	Dry	Powdery
	(Powdered sugar and human hair size)	Damp	Moisture content below plastic limit
Silt	0.06 mm.-0.002 mm.	Moist	Moisture content
Clay	0.002 and smaller (Particle size of both Silt and Clay not visible to naked eye)		above plastic limit but below liquid limit
		Wet	Moisture content above liquid limit
Condition of Soil Relative to Compactness Granular Material		Condition of Soil Relative to Consistency Cohesive Material	
Very Loose	5 blows/ft. or less	Very Soft	3 blows/ft. or less
Loose	6 to 10 blows/ft.	Soft	4 to 5 blows/ft.
Medium Dense	11 to 30 blows/ft.	Medium Stiff	6 to 10 blows/ft.
Dense	31 to 50 blows/ft.	Stiff	11 to 15 blows/ft.
Very Dense	51 blows/ft. or more	Very Stiff	16 to 30 blows/ft.
		Hard	31 blows/ft. or more

STANDARD PENETRATION RESISTANCE (ASTM D1586)

The purpose of this test is to determine the relative consistency of the soils in a boring, or from boring to boring over the site. This method consists of making a hole in the ground and driving a 2 inch O.D. split spoon sampler into the soil with a 140 pound hammer dropped from a height of 30 inches. The sampler is driven 18 inches and the number of blows recorded for each 6 inches of penetration. Values of standard penetration (N) are determined in blows per foot, summarizing the blows required for the last two 6 inch increments of penetration. (Example: 2-6-8; N = 14)

THIN-WALLED SAMPLER (ASTM D1587)

The purpose of the thin-walled sampler is to recover a relatively undisturbed soil sample for laboratory tests. The sampler is a thin-walled seamless tube with a 3 inch outside diameter, which is hydraulically pressed into the ground, at a constant rate. The ends are then sealed to prevent moisture loss, and the tube is returned to the laboratory for tests.

UNCONFINED COMPRESSION OR TRIAXIAL TESTS (ASTM D2166)

The unconfined compression test and the triaxial tests are performed to determine the shearing strength of the soil, to use in establishing its safe bearing capacity. In order to perform the unconfined compression tests, it is necessary that the soil exhibit sufficient cohesion to stand in an unsupported cylinder. These tests are normally performed on samples which are 6.0 inches in height and 2.85 inches in diameter. In the triaxial test, various lateral stresses can be applied to more closely simulate the actual field conditions. There are several different types of triaxial tests. These are, however, normally performed on constant strain apparatus with a deformation rate of 0.05 inches per minute.

CONSOLIDATION TEST (ASTM D2435)

The purpose of this test is to determine the compressibility of the soil. This test is performed on a sample of soil which is 2.5 inches in diameter and 1.0 inch in height, and has been trimmed from relatively "undisturbed" samples. The test is performed with a level system or an air activated piston for applying load. The loads are applied in increments and allowed to remain on the sample for a period of 24 hours. The consolidation of the sample under each individual load is measured and a curve of void ratio vs. Pressure is obtained. From the information obtained in this manner and the column loads of the structure, it is possible to calculate the settlement of each individual building column. This information, together with the shearing strength of the soil, is used to determine the safe bearing capacity for a particular structure.

REVISED TO ASTM D4318 ATTERBERG LIMITS (ASTM D423 AND D424)

These tests determine the liquid and plastic limits of soils having a predominant percentage of fine particle (silt and clay) sizes. The liquid limit of a soil is the moisture content expressed as a percent at which the soil changes from a liquid to a plastic state, and the plastic limit is the moisture content at which the soil changes from a plastic to a semi-solid state. Their difference is defined as the plasticity index ($P.I. = L.L. - P.L.$), which is the change in moisture content required to change the soil from a "semi-solid" to a liquid. These tests furnish information about the soil properties which is important in determining their relative swelling potential and their classifications.

MECHANICAL ANALYSIS (ASTM D422)

This test determines the percent of each particle size of a soil. A sieve analysis is conducted on particle sizes greater than a No. 20 sieve (0.074 mm), and a hydrometer test on particles smaller than the No. 200 sieve. The gradation curve is drawn through the points of cumulative per cent of particle size, and plotted on semi-logarithmic paper for the combined sieve and hydrometer analysis. This test, together with the Atterberg Limits tests, is used to classify a soil.

NATURAL MOISTURE CONTENT (ASTM D2216)

The purpose of this test is to indicate the range of moisture contents present in the soil. A wet sample is weighed, placed in the constant temperature oven at 105° for 24 hours, and re-weighed. The moisture content is the change in weight divided by the dry weight.

PROCTOR TESTS

The purpose of these tests is to determine the maximum density and optimum moisture content of a soil. The Modified Proctor test is performed in accordance with ASTM D1557-70. The test is performed by dropping a 10 pound hammer 25 times from an 18 inch height on each of 5 equal layers of soil in a 1/30 cubic foot mold, which represents a compaction effort of 56,250 foot pounds per cubic foot. The moisture content is then raised, and this procedure is repeated. A moisture density curve is then plotted, with the density on the ordinate axis and the moisture content on the abscissa axis. The moisture content at which the maximum density requirement can be achieved with a minimum compactive effort is designated as the optimum moisture content (O.M.C.). The Standard Proctor test is performed in accordance with ASTM D698-70. This test is similar to the Modified Proctor test and is performed by dropping a 5.5 pound hammer 25 times from a height of 12 inches on 3 equal layers of soil in a 1/30 cubic foot mold, which represents a compaction effort of 12,375 foot pounds per cubic foot. This test gives proportionately lower results than the Modified Proctor test.

FIELD CLASSIFICATION SYSTEM FOR ROCK EXPLORATION

Saprolite

A transitional material between soil and rock retains the relic structure of the parent rock and exhibits penetration resistance between 60 blows per foot and 100 blows/2 inches of penetration.

R.Q.D.

Rock Quality Designation; Ratio of the core lengths greater than four inches to the total length of the core run.

<u>Description</u>	<u>Percentage Core Recovered</u>	<u>RQD Rock Quality Description</u>	<u>Description of Rock Quality</u>
Incompetent	Less than 40	0 - 25	very poor
Competent	40 - 70	25 - 50	poor
Fairly Competent	70 - 80	50 - 75	fair
Fairly Continuous	80 - 90	75 - 90	good
Continuous	90 - 100	90 - 100	excellent

FIELD HARDNESS:

(A measure of resistance to scratching or abrasion)

Very Hard	Cannot be scratched with knife or sharp pick, breaking of hand specimens requires several hard blows of geologist's pick.
Hard	Can be scratched with knife or pick only with difficulty. Hard blow of a hammer required to detach hand specimen.
Moderately Hard	Can be scratched with knife or pick. Gouges or grooves to ¼ inch deep can be excavated by hard blow of point of a geologist's pick. Hand specimens can be detached by moderate blow.
Medium	Can be grooved or gouged 1/16 inch deep by firm pressure on knife or pick point. Can be excavated in small chips to pieces about 1 inch maximum size by hard blows of the point of a geologist's pick.
Soft	Can be gouged or grooved readily with knife or pick point. Can be excavated in chips and pieces several inches in size by moderate blows of a pick point. Small thin pieces can be broken by finger pressure.
Very soft	Can be carved with knife. Can be excavated with point of pick. Pieces 1 inch or more in thickness can be broken with finger pressure. Can be scratched readily by fingernail.

WEATHERING:

(The action of the elements in altering the color, texture, and composition of the rock)

Very slightly	Rock generally fresh, joints stained, some joints may contain thin clay coatings, crystals in broken face show bright. Rock rings under hammer if crystalline.
Slightly	Rock generally fresh, joints stained, and discoloration extends into rock up to 1 inch. Joints may contain clay. In granitoid rocks some occasional feldspar crystals are dull and discolored. Crystalline rocks ring under hammer. Significant portions of rock show discoloration and weathering effects. In granitoid rocks, most feldspars are dull and discolored; some may be decomposed to clay. Rock as dull sound under hammer and has a significant loss of strength compared with fresh rock.
Moderately	All rock except quartz discolored or stained. Rock "fabric" clear and evident but reduced in strength to strong soil. In granitoid rocks all feldspars kaolinized to some extent. Some fragments of strong rock usually left.
Severely	All rock except quartz discolored of stained. Rock "fabric" discernible, but mass effectively reduces to "soil" with only fragments of strong rock usually left.
Very severely	All rock completely altered to soil-like material.
Completely	

ROCK FRACTURE

FREQUENCY: (Any break in a rock whether or not it has undergone relative displacement.)

<u>Description</u>	<u>Spacing Between Fractures</u>
Extremely fractured	Less than 1 inch
Moderately fractured	1 inch to 4 inches
Slightly fractured	4 inches to 8 inches
Sound	More than 8 inches

Note: Fracture frequency terms are generalized to described the average condition of the rock obtained from the core run. Portions of the rock within the run described may vary from the generalized descriptions. Where a core break appears to be due to drilling and not to natural causes, it has not been considered as a break for accessing fracture frequency. Frequency shown on Record of Soil Exploration represents condition of core as removed from the core barrel.

JOINTS BEDDING, AND FOLIATION:

<u>Joints</u>	<u>Bedding & Foliation</u>	<u>Spacing</u>
Very close	Very thin	Less than 2 inches
Close	Thin	2 inches - 1 foot
Moderately close	Medium	1 foot - 3 feet
Wide	Thick	3 feet - 10 feet
Very wide	Very Thick	More than 10 feet

Notes: Refers to perpendicular distance between discontinuities

<u>Attitude</u>	<u>Angle (degrees)</u>
Horizontal	0 to 5
Shallow to low angle	5 to 35
Moderately dipping	35 to 55
Steep or high angle	55 to 85
Vertical	85 to 90

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3171 Research Boulevard, Suite 150

Dayton, OH 45420

(P) (937) 428-615

BORING LOG

CLIENT: Warren County Career Center		REPORT NO.: 40381-001		BORING NO.: KBJW-1	
PROJECT: GEI for Proposed Medical Science Addition		DATE STD.: 9/10/26		DATE FINISHED: 9/10/26	
LOCATION: Warren County Career Center, Lebanon, OH		DRILLERS: EnviroCore, Inc.		GROUND ELEV.: --	
		METHOD: HSA			

SCALE, FT.	STRATUM DEPTH, FT.	CLASSIFICATION OF MATERIAL		SAMPLE NUMBER & SAMPLE TYPE	DEPTH OF SAMPLE, FT.		BLOWS ON SAMPLER PER SPT (6" INTERVAL)	SPT "N", OR RECOVERY (IN, FOR SHELBY TUBES, % FOR ROCK CORE)
		Major Soil Components:	Minor Component Term		FROM	TO		
0.0	0.0	Gravel	Silt					
	2"	Sand	Clay					
1.0		TOPSOIL						
		ORIGINAL, soft, brown/gray, silty CLAY, trace sand, gravel (moist)		1A	1.0	2.5	3-3-3	6
2.0								
3.0								
4.0				2A	3.5	5.0	2-3-4	7
5.0								
6.0	6.0	Weathered SHALE/LIMESTONE bedrock		3A	6.0	6.7	31-50/2"	100+
		BOTTOM OF BORING AT 6.7 FEET						
7.0		AUGER REFUSAL AT 6.7 FEET						
8.0								
9.0								
10.0								
11.0								
12.0								
13.0								
14.0								
15.0								
16.0								
17.0								
18.0								
19.0								
20.0								

WATER LEVEL OBSERVATIONS		BORING METHOD		TYPE SAMPLE		*These Shelby Tube
Noted on rods Dry ft.	HSA	Hollow Stem Auger	MD	Mud Drilling	A - Split Spoon	Samples Obtained In An
At completion Dry ft.	CFA	Continuous Flight Auger	RC	Rock Coring	B - Rock Core	Auxiliary Boring Drilled A
After -- hours -- ft.	DC	Driven Casing	CA	Casing Advancer	C - Shelby Tube	Few Feet From This Boring
					D - Other	

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BORING LOG

CLIENT: Warren County Career Center		REPORT NO.: 40381-001		BORING NO.: KBJW-2	
PROJECT: GEI for Proposed Medical Science Addition		DATE STD.: 9/10/26		DATE FINISHED: 9/10/26	
LOCATION: Warren County Career Center, Lebanon, OH		DRILLERS: EnviroCore, Inc.		GROUND ELEV.: --	
		METHOD: HSA			

SCALE, FT.	STRATUM DEPTH, FT.	CLASSIFICATION OF MATERIAL		SAMPLE NUMBER & SAMPLE TYPE	DEPTH OF SAMPLE, FT.		BLOWS ON SAMPLER PER SPT (6" INTER- VAL)	SPT "N", OR RECOVERY (IN, FOR SHELBY TUBES, % FOR ROCK CORE)
		Major Soil Components:	Minor Component Term		FROM	TO		
0.0	0.0	Gravel Sand	Silt Clay					
	2"	TOPSOIL						
1.0		ORIGINAL, soft, brown/gray, silty CLAY, trace sand, gravel (moist)		1A	1.0	2.5	3-4-3	7
2.0								
3.0								
4.0				2A	3.5	5.0	2-3-4	7
5.0								
6.0	6.0	Weathered SHALE/LIMESTONE bedrock		3A	6.0	7.1	12-16-50/1"	100+
		BOTTOM OF BORING AT 7.1 FEET						
7.0		AUGER REFUSAL AT 7.1 FEET						
8.0								
9.0								
10.0								
11.0								
12.0								
13.0								
14.0								
15.0								
16.0								
17.0								
18.0								
19.0								
20.0								

<u>WATER LEVEL OBSERVATIONS</u>		<u>BORING METHOD</u>		<u>TYPE SAMPLE</u>	*These Shelby Tube
Noted on rods Dry ft.	HSA Hollow Stem Auger	MD Mud Drilling	A - Split Spoon	Samples Obtained In An	
At completion Dry ft.	CFA Continuous Flight Auger	RC Rock Coring	B - Rock Core	Auxiliary Boring Drilled A	
After -- hours -- ft.	DC Driven Casing	CA Casing Advancer	C - Shelby Tube	Few Feet From This Boring	
			D - Other		

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BORING LOG

CLIENT: Warren County Career Center		REPORT NO.: 40381-001		BORING NO.: KBJW-3	
PROJECT: GEI for Proposed Medical Science Addition		DATE STD.: 9/10/26		DATE FINISHED: 9/10/26	
LOCATION: Warren County Career Center, Lebanon, OH		DRILLERS: EnviroCore, Inc.		GROUND ELEV.: --	
		METHOD: HSA			

SCALE, FT.	STRATUM DEPTH, FT.	CLASSIFICATION OF MATERIAL		SAMPLE NUMBER & SAMPLE TYPE	DEPTH OF SAMPLE, FT.		BLOWS ON SAMPLER PER SPT (6" INTER- VAL)	SPT "N", OR RECOVERY (IN, FOR SHELBY TUBES, % FOR ROCK CORE)
		Major Soil Components:	Minor Component Term		FROM	TO		
0.0	0.0	Gravel	Silt					
	2"	Sand	Clay					
1.0		TOPSOIL		1A	1.0	2.5	2-2-4	6
2.0		ORIGINAL, soft, brown/gray, silty CLAY, trace sand, gravel (moist)						
3.0				2A	3.5	5.0	2-2-3	5
4.0								
5.0								
6.0	6.0	Weathered SHALE/LIMESTONE bedrock		3A	6.0	6.6	12-50/1"	100+
		BOTTOM OF BORING AT 6.6 FEET						
7.0		AUGER REFUSAL AT 6.6 FEET						
8.0								
9.0								
10.0								
11.0								
12.0								
13.0								
14.0								
15.0								
16.0								
17.0								
18.0								
19.0								
20.0								

<u>WATER LEVEL OBSERVATIONS</u>		<u>BORING METHOD</u>		<u>TYPE SAMPLE</u>		*These Shelby Tube Samples Obtained In An Auxiliary Boring Drilled A Few Feet From This Boring
Noted on rods <u>6.6</u> ft.	HSA	Hollow Stem Auger	MD	Mud Drilling	A - Split Spoon	
At completion <u>6.6</u> ft.	CFA	Continuous Flight Auger	RC	Rock Coring	B - Rock Core	
After <u>--</u> hours <u>--</u> ft.	DC	Driven Casing	CA	Casing Advancer	C - Shelby Tube	
					D - Other	

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BORING LOG

CLIENT: Warren County Career Center		REPORT NO.: 40381-001		BORING NO.: KBJW-4	
PROJECT: GEI for Proposed Medical Science Addition		DATE STD.: 9/10/26		DATE FINISHED: 9/10/26	
LOCATION: Warren County Career Center, Lebanon, OH		DRILLERS: EnviroCore, Inc.		GROUND ELEV.: --	
		METHOD: HSA			

SCALE, FT.	STRATUM DEPTH, FT.	CLASSIFICATION OF MATERIAL		SAMPLE NUMBER & SAMPLE TYPE	DEPTH OF SAMPLE, FT.		BLOWS ON SAMPLER PER SPT (6" INTER- VAL)	SPT "N", OR RECOVERY (IN, FOR SHELBY TUBES, % FOR ROCK CORE)
		Major Soil Components: Gravel Silt Sand Clay	Minor Component Term Trace 1-10% Some 11-35% And 36-50%		FROM	TO		
0.0	0.0	TOPSOIL						
	4"	ORIGINAL, soft, brown/gray, silty CLAY, trace sand, gravel (moist)						
1.0				1A	1.0	2.5	3-5-5	10
2.0								
3.0								
4.0				2A	3.5	5.0	2-2-1	3
5.0								
6.0	6.0	Weathered SHALE/LIMESTONE bedrock		3A	6.0	7.1	2-3-50/1"	100+
		BOTTOM OF BORING AT 7.1 FEET						
7.0		AUGER REFUSAL AT 7.1 FEET						
8.0								
9.0								
10.0								
11.0								
12.0								
13.0								
14.0								
15.0								
16.0								
17.0								
18.0								
19.0								
20.0								

WATER LEVEL OBSERVATIONS		BORING METHOD		TYPE SAMPLE		*These Shelby Tube
Noted on rods <u>5.0</u> ft.	HSA	Hollow Stem Auger	MD	Mud Drilling	A - Split Spoon	Samples Obtained In An
At completion <u>6.0</u> ft.	CFA	Continuous Flight Auger	RC	Rock Coring	B - Rock Core	Auxiliary Boring Drilled A
After <u>--</u> hours <u>--</u> ft.	DC	Driven Casing	CA	Casing Advancer	C - Shelby Tube	Few Feet From This Boring
					D - Other	

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BORING LOG

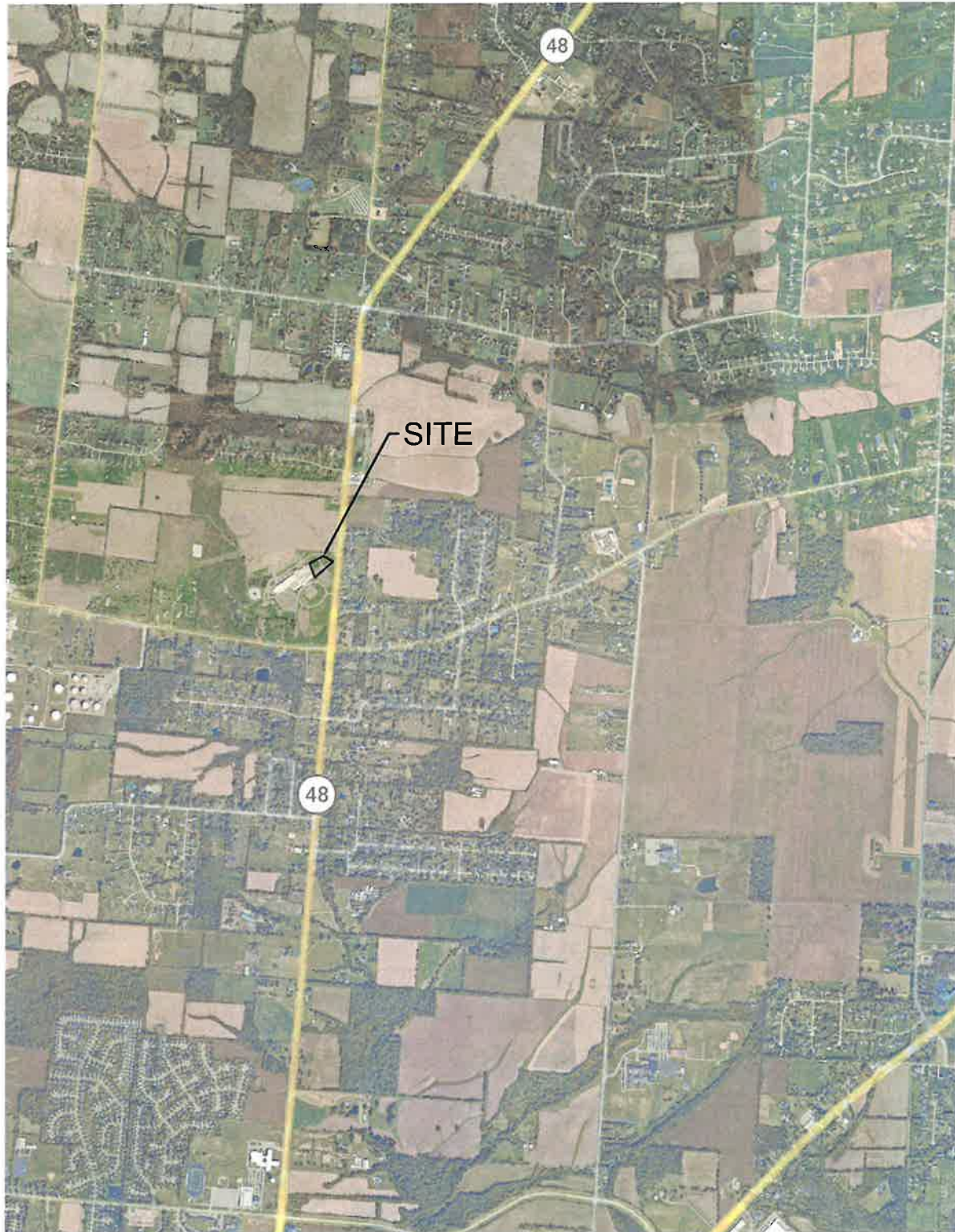
CLIENT: Warren County Career Center		REPORT NO.: 40381-001		BORING NO.: KBJW-5	
PROJECT: GEI for Proposed Medical Science Addition		DATE STD.: 9/10/26		DATE FINISHED: 9/10/26	
LOCATION: Warren County Career Center, Lebanon, OH		DRILLERS: EnviroCore, Inc.		GROUND ELEV.: --	
		METHOD: HSA			

SCALE, FT.	STRATUM DEPTH, FT.	CLASSIFICATION OF MATERIAL		SAMPLE NUMBER & SAMPLE TYPE	DEPTH OF SAMPLE, FT.		BLOWS ON SAMPLER PER SPT (6" INTER- VAL)	SPT "N" , OR RECOVERY (IN, FOR SHELBY TUBES, % FOR ROCK CORE)
		Major Soil Components:	Minor Component Term		FROM	TO		
0.0	0.0	ASPHALT						
	5"	GRAVEL BASE						
1.0	8"	ORIGINAL, soft, brown/gray, silty CLAY, trace sand, gravel (moist)		1A	1.0	2.5	2-1-2	3
2.0								
3.0								
4.0				2A	3.5	5.0	2-2-2	4
5.0								
6.0	6.0	Weathered SHALE/LIMESTONE bedrock		3A	6.0	6.6	41-50/1"	100+
		BOTTOM OF BORING AT 6.6 FEET						
7.0		AUGER REFUSAL AT 6.6 FEET						
8.0								
9.0								
10.0								
11.0								
12.0								
13.0								
14.0								
15.0								
16.0								
17.0								
18.0								
19.0								
20.0								

WATER LEVEL OBSERVATIONS		BORING METHOD		TYPE SAMPLE	*These Shelby Tube
Noted on rods <u>6.6</u> ft.	HSA	Hollow Stem Auger	MD	Mud Drilling	A - Split Spoon
At completion <u>6.6</u> ft.	CFA	Continuous Flight Auger	RC	Rock Coring	B - Rock Core
After <u>--</u> hours <u>--</u> ft.	DC	Driven Casing	CA	Casing Advancer	C - Shelby Tube
					D - Other
					*These Shelby Tube Samples Obtained In An Auxiliary Boring Drilled A Few Feet From This Boring

TABLE 1
RESULTS OF NATURAL MOISTURE CONTENT TESTS (ASTM D-4643)

BORING NO.	DEPTH INCREMENT, (FT.)	NATURAL MOISTURE CONTENT, %
KBJW-1	1.0 - 2.5	20.4
KBJW-1	3.5 - 5.0	23.6
KBJW-2	1.0 - 2.5	20.4
KBJW-2	3.5 - 5.0	20.7
KBJW-3	1.0 - 2.5	23.3
KBJW-3	3.5 - 5.0	23.6
KBJW-4	1.0 - 2.5	19.6
KBJW-4	3.5 - 5.0	23.4
KBJW-5	1.0 - 2.5	18.6
KBJW-5	3.5 - 5.0	25.4



VICINITY MAP

GEOTECHNICAL ENGINEERING INVESTIGATION
FOR THE PROPOSED MEDICAL SCIENCE ADDITION
TO THE WARREN COUNTY CAREER CENTER,
LEBANON, OHIO

Project No.

KBJW-40381

Scale

1" = 2400'

Date:

9/15/26

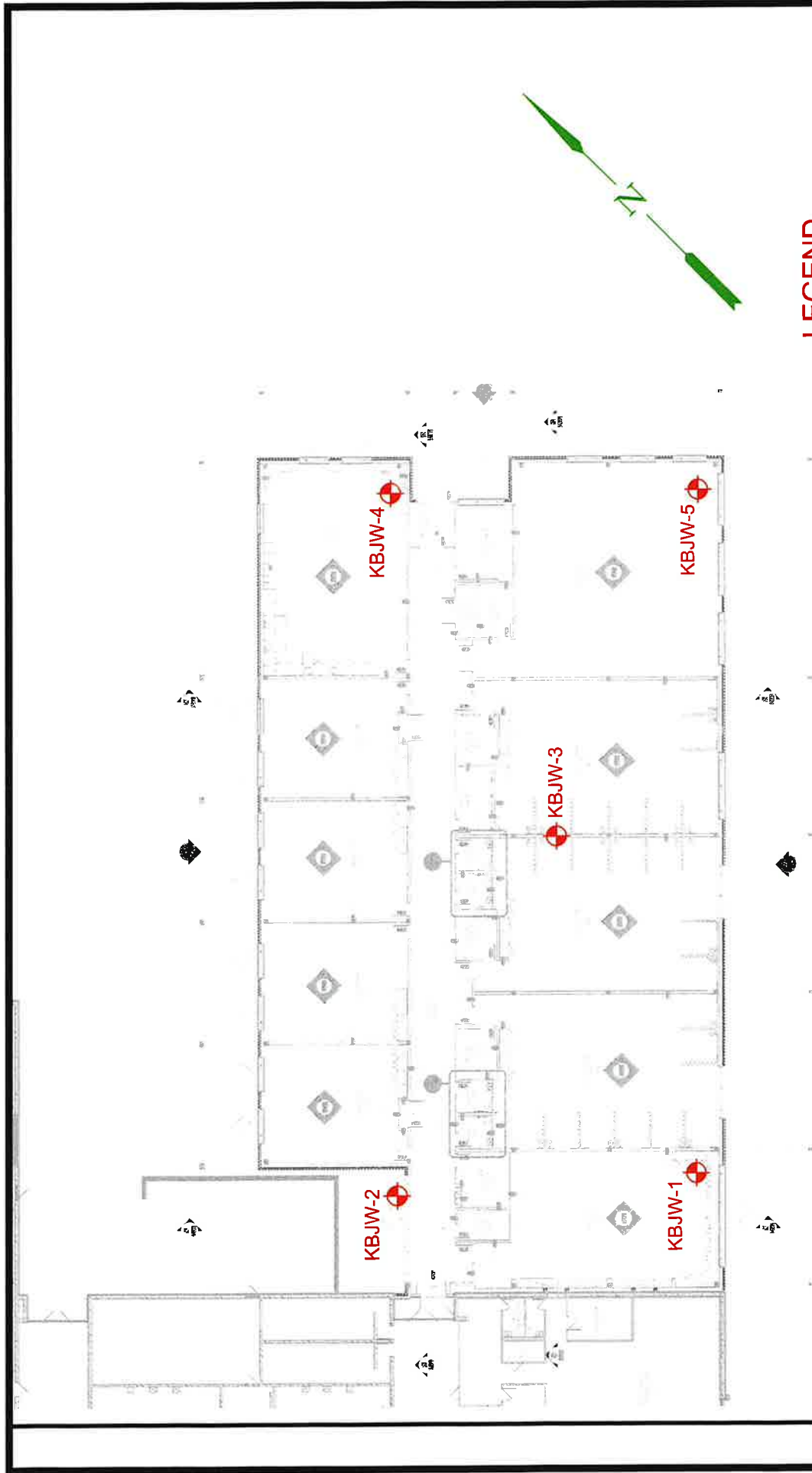


**KOONTZ
BRYANT
JOHNSON
WILLIAMS**

Formerly CBC Engineers

Figure No.

1



LEGEND

KBJW-1  = APPROXIMATE BORING LOCATION

BORING LOCATION PLAN
 GEOTECHNICAL ENGINEERING INVESTIGATION
 FOR THE PROPOSED MEDICAL SCIENCE ADDITION
 TO THE WARREN COUNTY CAREER CENTER,
 LEBANON, OHIO

Project No.

40381-001

Scale

N.T.S.

Date:

9/15/26

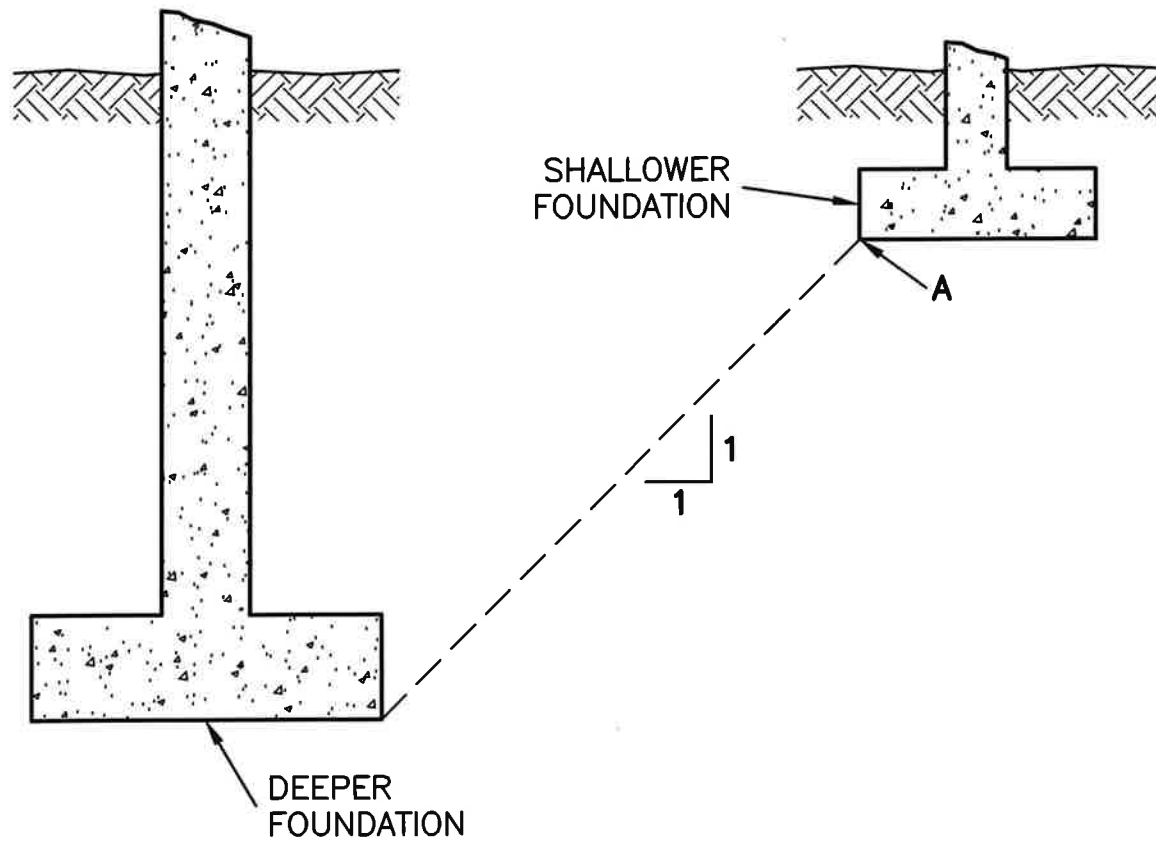


**KOONTZ
BRYANT
JOHNSON
WILLIAMS**

Formerly CBC Engineers

Figure No.

2



NOTE: POINT "A" OF SHALLOWER FOOTING MUST BE SITUATED BELOW THE DASHED LINE SHOWING THE FOOTING LOCATION LIMIT.

DESIGN ILLUSTRATION:

ADJACENT FOOTINGS



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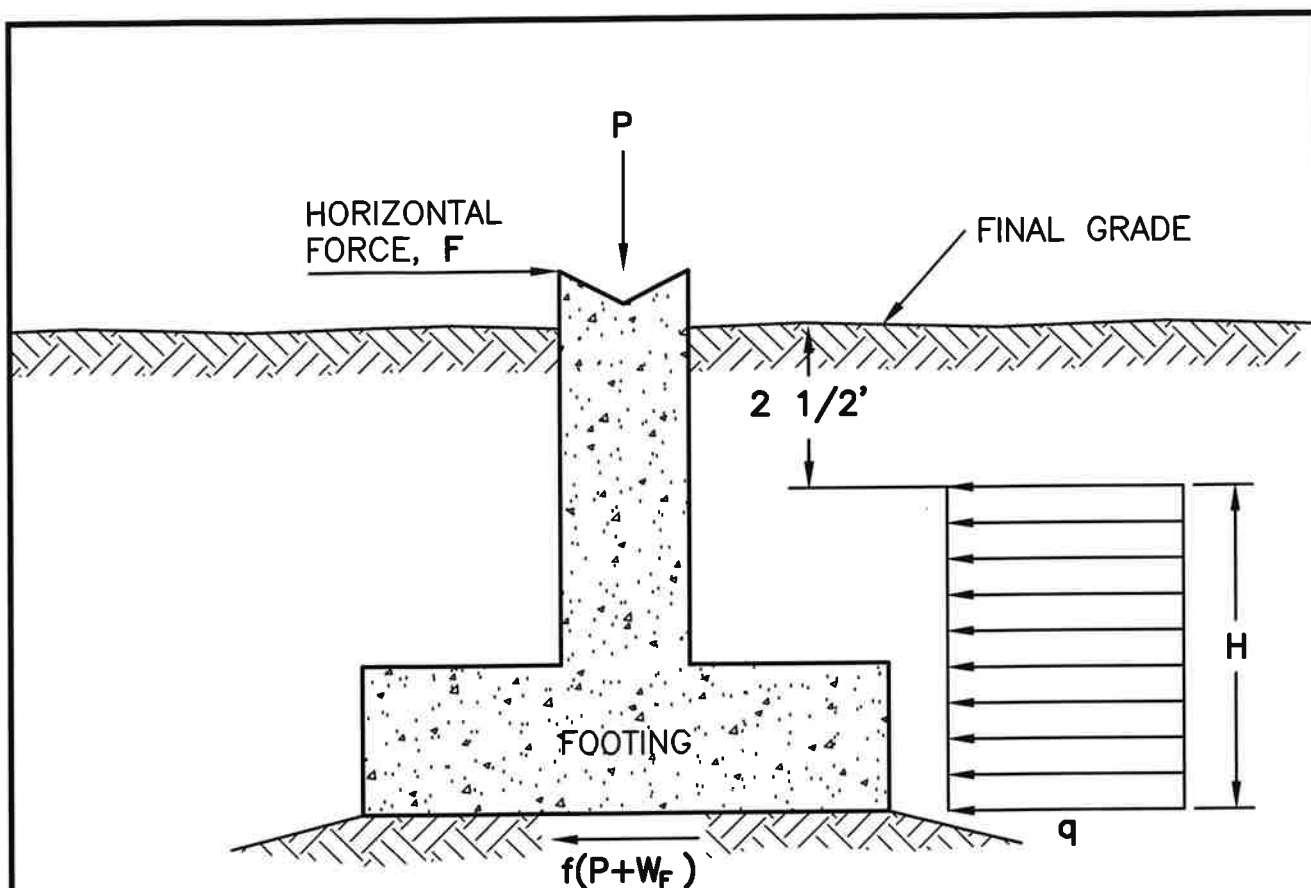
PROJECT NO.

SCALE

NONE

FIGURE NO.

3



LEGEND:

P = MINIMUM DOWNWARD LOAD

f = COEFFICIENT OF FRICTION
AT CONCRETE/SOIL INTERFACE

F = MAXIMUM HORIZONTAL FORCE

W_F = WEIGHT OF FOOTING BELOW FINAL GRADE

q = RESISTING PASSIVE PRESSURE

DESIGN ILLUSTRATION:

RESISTING LATERAL FORCES FOR
SHALLOW FOOTINGS



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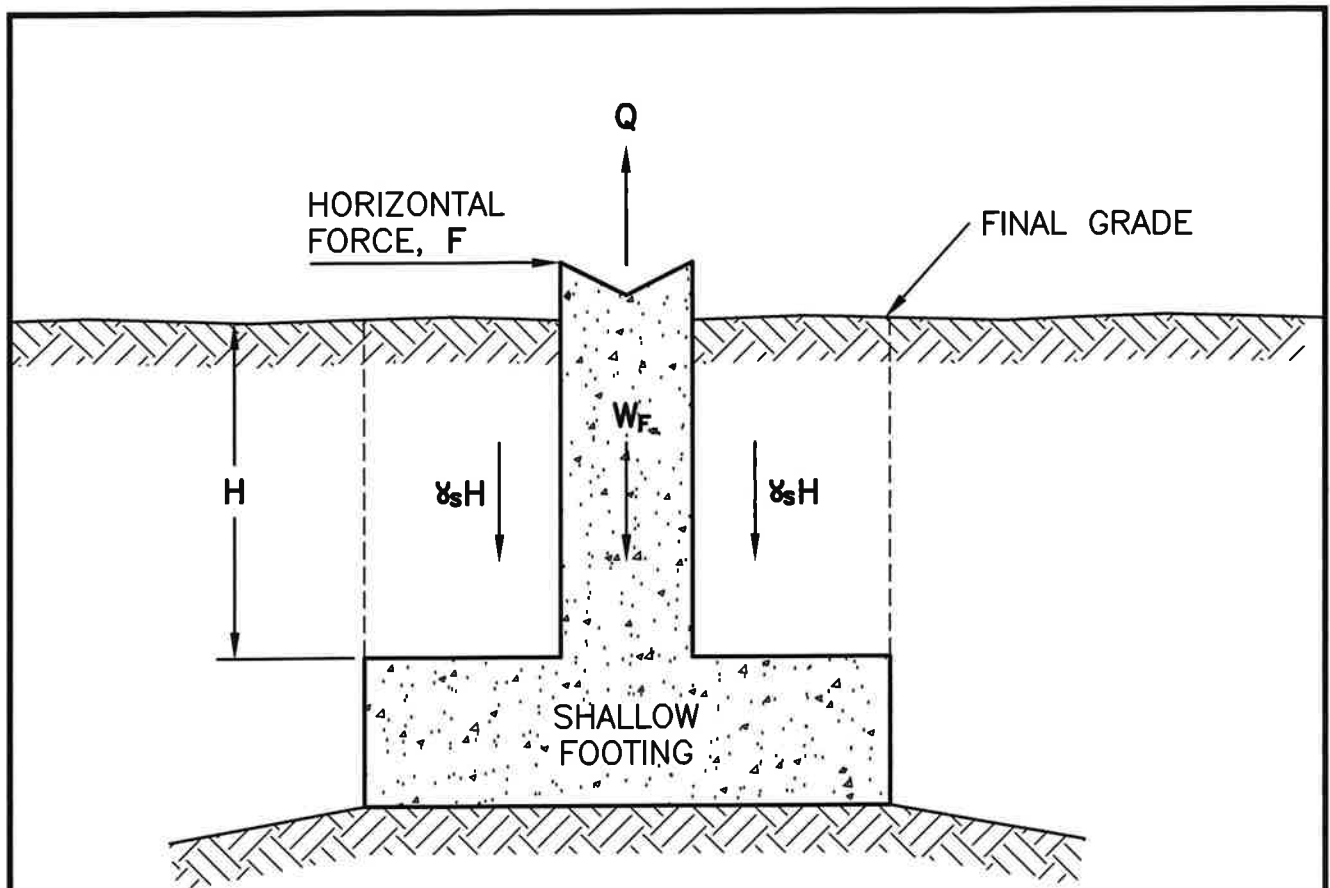
PROJECT NO.

SCALE

FIGURE NO.

NONE

4



LEGEND:

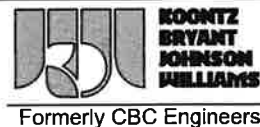
Q = MAXIMUM UPLIFT LOAD

γ_s = TOTAL SOIL UNIT WEIGHT

W_F = WEIGHT OF FOOTING BELOW FINAL GRADE

DESIGN ILLUSTRATION:

RESISTING UPLIFT FORCES FOR
SHALLOW FOOTINGS



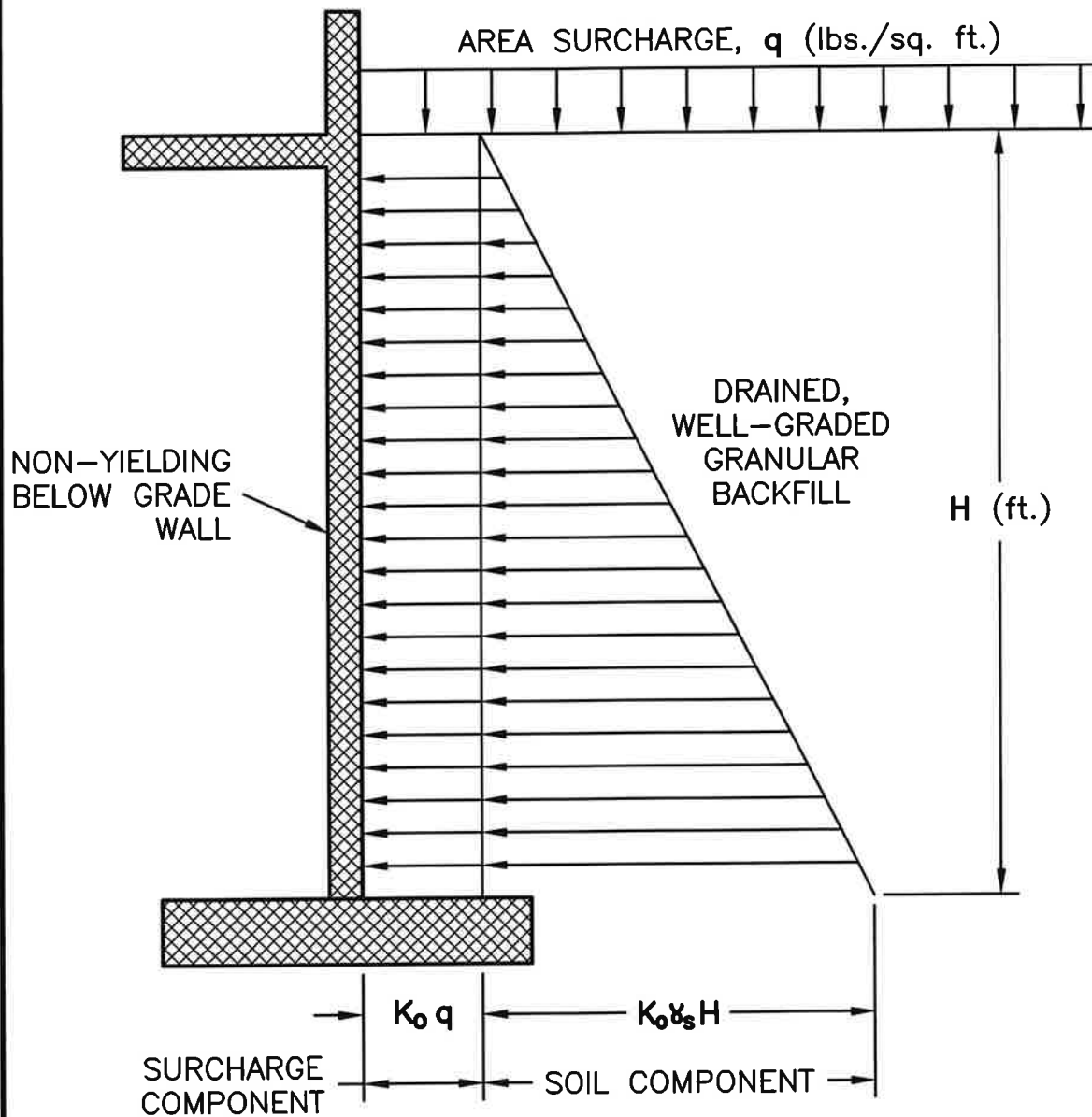
PROJECT NO:

SCALE:

NONE

FIGURE NO.

5



LEGEND:

γ_s = TOTAL SOIL UNIT WEIGHT, (lbs./cu. ft.)

K_0 = AT REST EARTH PRESSURE COEFFICIENT

DESIGN ILLUSTRATION:

LATERAL EARTH PRESSURE AGAINST
NON-YIELDING BELOW-GRADE WALL
ASSUMING DRAINED BACKFILL WITH
NON-HYDROSTATIC PRESSURE



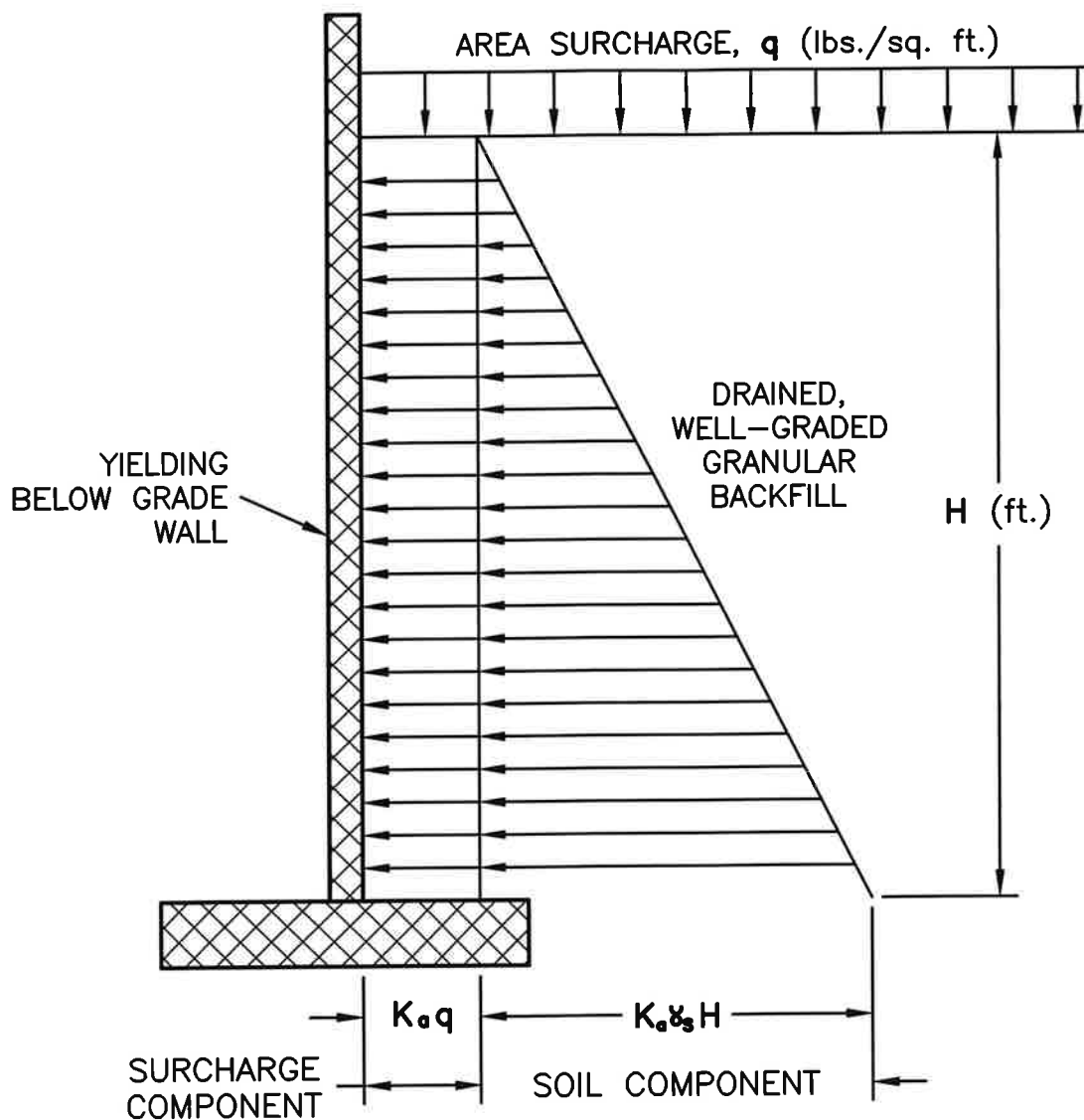
PROJECT NO.

SCALE

NONE

FIGURE NO.

6



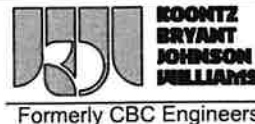
LEGEND:

K_a = ACTIVE EARTH PRESSURE COEFFICIENT

γ_s = TOTAL SOIL UNIT WEIGHT, (lbs./cu. ft.)

DESIGN ILLUSTRATION:

LATERAL EARTH PRESSURE AGAINST
YIELDING BELOW-GRADE WALL
ASSUMING DRAINED BACKFILL WITH
NO HYDROSTATIC PRESSURE



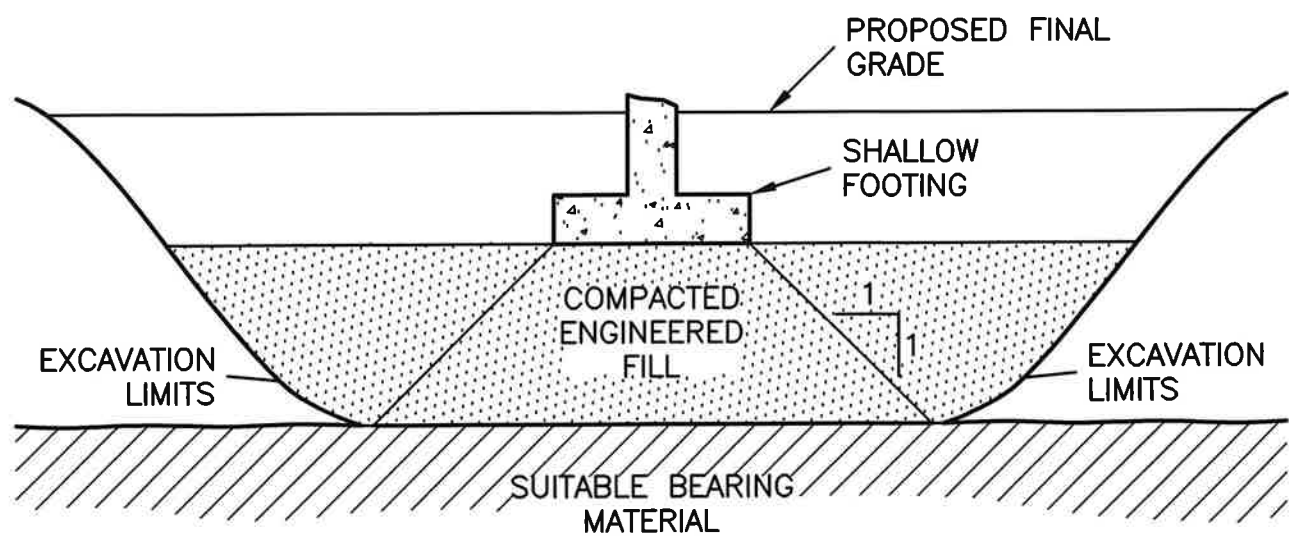
PROJECT NO.

SCALE

NONE

FIGURE NO.

6A



DESIGN ILLUSTRATION:

SHALLOW FOOTINGS IN AN
UNDERCUT AREA



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PROJECT NO.

SCALE

NONE

FIGURE NO.

7

SECTION 002113

INSTRUCTIONS TO BIDDERS

A.	BIDDER'S PLEDGE AND AGREEMENT	1
B.	EXAMINATION OF CONTRACT DOCUMENTS AND SITE CONDITIONS AND RELIANCE UPON TECHNICAL DATA.....	1
C.	PROJECT	2
D.	WORK	2
E.	ESTIMATE OF COST	Error! Bookmark not defined.
F.	CONTRACT DOCUMENTS AND PRE-BID MEETING	2
G.	PREPARATION OF BIDS	3
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I.	EXECUTION OF CONTRACT	8
J.	SUBSTITUTIONS/NON-SPECIFIED PRODUCTS.....	8
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A. BIDDER'S PLEDGE AND AGREEMENT

1. **Each Bidder acknowledges that this is a public project involving public funds and that the Owner expects and requires that each successful Bidder adhere to the highest ethical and performance standards. Each Bidder by submitting a bid pledges and agrees that (a) it will act at all times with absolute integrity and truthfulness in its dealings with the Owner and the Design Professional, (b) it will use its best efforts to cooperate with the Owner and the Design Professional and all other Contractors on the Project and at all times will act with professionalism and dignity in its dealings with the Owner, Design Professional, and other Contractors, (c) it will assign only competent supervisors and workers to the Project, each of whom is fully qualified to perform the tasks that are assigned to him/her, and (d) it has read, understands and will comply with the terms of the Contract Documents.**

B. EXAMINATION OF CONTRACT DOCUMENTS AND SITE CONDITIONS AND RELIANCE UPON TECHNICAL DATA

1. Each Bidder shall have a competent person carefully and diligently review each part of the Contract Documents, including the Divisions of the Specifications and parts of the Drawings that are not directly applicable to the Work on which the Bidder is submitting its bid. By submitting its bid, each Bidder represents and agrees, based upon its careful and diligent review of the Contract Documents, that it is not aware of any conflicts, inconsistencies, errors, or omissions in the Contract Documents for which it has not notified the Design Professional in writing at least ten (10) days prior to the bid opening. If there are any such conflicts, inconsistencies, errors, or omissions in the Contract Documents, the Bidder (i) will provide the labor, equipment, or materials of the better quality or greater quantity of Work and/or (ii) will comply with the more stringent requirements. The Bidder will not be entitled to any Change Order, additional compensation, or additional time on account of such conditions for any conflicts, inconsistencies, errors, or omissions that would have been discovered by such careful and diligent review, unless it has given prior written notice to the Design Professional.
2. Each Bidder shall have a competent person carefully and diligently inspect and examine the entire site and the surrounding area, including all parts of the site applicable to the Work for which it is submitting its bid, including location, condition, and layout of the site and the location of utilities, and carefully correlate the results of the inspection with the requirements of the Contract Documents. The Bidder's bid shall include all costs attributable to site and surrounding area conditions that would have been discovered by such careful and diligent inspection and examination of the site and the surrounding area, and the Bidder shall not be entitled to any Change Order, additional compensation, or additional time on account of such conditions.
3. The Bidder may rely upon the general accuracy of any technical data identified in the Owner-Contractor Agreement (e.g., any soils exploration reports, soil boring logs, site survey, or abatement reports) in preparing its bid, but such technical data are not part of the Contract Documents. Except for the limited reliance described in the preceding sentence, Bidder may not, if awarded a contract for the Work, rely upon or make any Claim against the Owner or Design Professional, or any of their agents or employees, with respect to any of the following:
 - (a) the completeness of such reports and drawings for Bidder's purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences, and procedures of construction to be employed by the successful Bidder and safety precautions and programs incident thereto; or

- (b) any interpretation by the successful Bidder of or conclusion drawn from any technical data or any such other data, interpretations, opinions, or information. For example, all interpolations and extrapolations of data performed by the Bidder to estimate locations or quantities of subsurface strata are independent factual assumptions, which Owner does not warrant.
- 4. Each Bidder will be deemed to have actual knowledge of all information provided or discussed at the pre-bid meeting.

C. PROJECT

- 1. The Project is the Warren County Career Center - Medical Academy Addition ("the Project"). The Project and Work for the Project consists of 19,395 square foot addition to the existing Warren County Career Center, in accordance with the Drawings and Specifications prepared by the Design Professional.
- 2. The Design Professional for the Project is:

Levin Porter Associates, Inc.
3011 Newmark Drive
Miamisburg, Ohio 45342
Design Professional Representative: Mark Wiseman, AIA, LEED AP
Email: mwiseman@levin-porter.com

D. WORK

- 1. Only one contract will be issued by the Owner for constructing the Project, the General Contract, which will cover all scopes of work necessary to construct the Project.
- 2. The Contractor awarded the General Contract (General Contractor) will be responsible for the performance and coordination of any and all subcontractors and suppliers either directly or indirectly contracted with the General Contractor.
- 3. Owner may provide Bidders access to the Project site to conduct such examinations, investigations, explorations, tests, and studies as Bidder deems necessary for submission of a Bid. Bidder shall fill all holes and clean up and restore the Site to its former condition upon completion of such explorations, investigations, tests, and studies. Bidder shall comply with all applicable Laws and Regulations and Owner's policies relative to excavation and utility locates. **Outside of the pre-bid conference**, Bidders may visit the site by contacting Joel King, Superintendent, at joel.king@mywccc.org to set an appointment.

E. ESTIMATE OF COST

- 1. The total estimated construction cost for the base bid is \$7,250,000

F. CONTRACT DOCUMENTS AND PRE-BID MEETING

- 1. The Contract Documents consist of the Contract Documents listed in Section 1 of the Owner-Contractor Agreement.
- 2. Electronic copies of the Contract Documents will be available by request, from the office of the Architect, Mark Wiseman, at mwiseman@levin-porter.com.
- 3. Bidders shall use complete sets of Contract Documents in preparing bids. Neither the Owner nor the Design Professional assumes any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Contract Documents.

4. The Owner or the Design Professional, in making the Contract Documents available on the above terms, does so only for the purpose of obtaining bids on the Work and does not confer a license or grant for any other use.
5. A pre-bid conference will be held on **September 21st 2026 at 3:00 pm** at the Warren County Career Center, 3525 North State Route 48, Lebanon, Ohio 45036.

Attendance is highly recommended. The Owner shall not be held liable if a bidder is unable to attend due to technical or other issues or obstructions.

G. PREPARATION OF BIDS

1. All bids must be submitted on the "Bid Form" furnished with the Contract Documents.
2. All blank spaces shall be filled in, in ink or typewritten, in words and figures, and in figures only where no space is provided for words, and signed by the Bidder. The wording on the Bid Form shall be used without change, alteration, or addition. Any change in the wording or omission of specified accompanying documents may cause the bid to be rejected. If there is an inconsistency or conflict in the bid amount, the lowest amount shall control, whether expressed in numbers or words.
3. Bidders shall note receipt of Addenda on the Bid Form. If the Bidder fails to acknowledge receipt of each Addendum, the Bid shall be deemed non-responsive, unless the Bid amount clearly and unambiguously reflects receipt of the Addendum or the Addendum involves only a matter of form and does not materially affect the price, quantity or quality of the Work to be performed.
4. Each Bidder shall submit **2 originals** of its bid to the Owner. The Bid Form shall be signed with the name typed or printed below the signature. A Bid shall not be submitted by facsimile transmission or any other electronic means. A Bidder that is a corporation shall sign its bid with the legal name of the corporation followed by the name of the state of incorporation and the legal signature of an officer authorized to bind the corporation to a contract.
5. Bids shall be enclosed in a sealed opaque envelope with the Bidder's name, plainly marked on the outside **"WARREN COUNTY CAREER CENTER MEDICAL ACADEMY ADDITION PROJECT BID,"** and addressed as follows:

**Warren County Career Center
ATTN: Joel King, Superintendent
3525 State Route 48
Lebanon, Ohio 45036**

Bids must be received at the location designated above before

2:00 P.M., local time October 5TH, 2026.

Hand deliveries to this location are preferred. Respondents are responsible for confirming current operating hours.

A public bid opening will take place at the Warren County Career Center, Admin Office, 3529 State Route 48, Lebanon, Ohio 45036 immediately following the bid submission deadline.

The Owner shall not be held liable if a bidder is unable to attend due to technical or other issues or obstructions.

6. **The completed Bid Form shall be accompanied by the following completed documents:**
Bid Guaranty and if applicable, Contract Bond (See Paragraph G.8 below.)
Contractor's Qualification Statement (See Paragraph H.4 below.)

7. The Bidder shall take the following precautions in preparing its bid:

- a. Sign the bid and check to ensure all blank spaces have been filled in with requested information and that the specified accompanying documents (listed in Paragraph G.6 above) have been included in a sealed opaque envelope addressed as described in item Paragraph G.5 above.
- b. When the Bid Form provides for quoting either an addition or deduction for an Alternate item, indicate whether the sum named is an addition or deduction. If it is not indicated, it will be conclusively presumed that the amount is a deduction.
- c. When the Bid Form provides for quoting a unit price, the Bidder should quote the unit price as set forth in the Contract Documents and as described in Paragraph L.1 below.
- d. When applicable, make sure that the Bid Guaranty is properly executed and signed by:
 - 1) The Bidder
 - 2) The Surety or Sureties
- e. Make sure that the amount of the Bid Guaranty (if the Bid Guaranty is in the form of a certified check, letter of credit, or cashier's check) is for a specific sum in an amount as instructed in Paragraph G.8.a below. If the Bid Guaranty is in the form of the Bid Guaranty and Contract Bond, the amount may be left blank; if an amount is inserted, it must equal the total of the base bid plus the amount of all add alternates included in the bid. If inserted, then the failure to state an amount equal to the total of the base bid and all add alternates shall make the bid non-responsive if the Owner selects alternates not included in the amount.
- f. Make sure that the appropriate bid package and scope of work is inserted in the correct space on the Bid Guaranty and Contract Bond Form. Failure to include work covered by the bid submitted may make the bid non-responsive.

8. Bonds and Guarantees

- a. **Bid Guaranty:** Bidder shall furnish a Bid Guaranty, in the form prescribed in Sections 153.54, 153.57, and 153.571 of the Ohio Revised Code, in the form of either: (1) a bond for the full amount of the Base Bid plus the amount of all Add Alternates included in the Bidder's bid, in the form of the Bid Guaranty and Contract Bond included in the Contract Documents; or (2) a certified check, cashier's check, or irrevocable letter of credit in a form satisfactory to the Owner in an amount equal to 10% of the bid. Bid amount shall be the total of all sums bid, including all add alternatives, but excluding all deduct alternatives. NOTE: AIA or EJCDC Bid Bond forms are not acceptable.
- b. **Contract Bond:** The successful Bidder, who, as a Bid Guaranty, submits a certified check, cashier's check, or irrevocable letter of credit in an amount equal to 10% of the bid, shall furnish a Contract Bond in the form Contract Bond included in the Contract Documents in an amount equal to 100% of the Contract Sum. NOTE: AIA or EJCDC Bond forms are not acceptable.
- c. The bond must be issued by a surety company authorized by the Ohio Department of Insurance to transact business in the State of Ohio and acceptable to the Owner. The bond must be issued by a surety capable of demonstrating a record of competent underwriting, efficient management, adequate reserves, and sound investments. These criteria will be deemed to be met if the surety currently has an A.M. Best Company Policyholders Rating of "A-" or better and has or exceeds the Best Financial Size Category of Class VI. Other sureties may be acceptable to the Owner, in its sole discretion

- d. All bonds shall be signed by an authorized agent of an acceptable surety and by the Bidder.
- e. Surety bonds shall be supported by credentials showing the Power of Attorney of the agent, a certificate showing the legal right of the Surety Company to do business in the State of Ohio, and a financial statement of the Surety.
- f. The Bid Guaranty, as applicable, shall be in the name of or payable to the order of the Owner.
- g. The name and address of the Surety and the name and address of the Surety's Agent should be typed or printed on each bond.

H. METHOD OF AWARD

1. **All bids shall remain open for acceptance for sixty (60) days** following the day of the bid opening, but the Owner may, in its sole discretion, release any bid and return the Bid Guaranty prior to that date. The Bid Guaranty shall be subject to forfeiture, as provided in the Ohio Revised Code, if a bid is withdrawn during the period when bids are being held.
2. The Owner reserves the right to reject any, part of any, or all bids and to waive any informalities and irregularities. The Bidder expressly acknowledges this right of the Owner to reject any or all bids or to reject any incomplete or irregular bid. Bidders must furnish all information requested on or accompanying the Bid Form. Any false representations or failure to provide information may result in disqualification of the bid.
3. Determination of the Lowest Responsible Bid. Subject to the right of the Owner to reject any or all bids, the Owner will award the Contract for the Work to the bidder submitting the lowest responsible bid that is responsive to the bidding requirements, taking into consideration accepted alternates. In evaluating bids, the Owner may consider the qualifications of the Bidders, whether or not the bids comply with the prescribed requirements, and alternates and unit prices, if requested, on the Bid Form. The Owner may also consider the qualifications and experience of subcontractors and suppliers. The Owner may conduct such investigations as are deemed necessary to establish the qualifications and financial ability of the Bidder and its subcontractors and suppliers. The factors the Owner may consider in determining which bid is the lowest responsible include the factors set forth below. The Owner, in its discretion, may consider and give such weight to these criteria as it deems appropriate.
 - a. The Bidder's work history. The Bidder should have a record of consistent customer satisfaction and of consistent completion of projects, including projects that are comparable to or larger and more complex than the Owner's Project, on time and in accordance with the applicable Contract Documents, and based upon the Bidder's claims history. If the Bidder's management operates or has operated another construction company, the Owner may consider the work history of that company in determining whether the Bidder submitted the lowest responsible bid.

The Owner will consider the Bidder's prior experience on other projects of similar scope and/or complexity including prior projects with the Owner and/or Design Professional, including the Bidder's demonstrated ability to complete its work on these projects in accordance with the Contract Documents and on time, and will also consider its ability to work with the Owner and Design Professional as a willing, cooperative, and successful team member. Bringing overstated claims, an excessive number of claims, acting uncooperatively, and filing lawsuits against project owners and/or their design professionals on prior projects of similar scope and/or complexity will be deemed evidence of a Bidder's inability to work with the Owner and Design Professional as a willing, cooperative, and successful team member.

The Bidder authorizes the Owner and its representatives to contact the owners and design professionals (and construction managers, if applicable) on projects on which the Bidder has worked and authorizes and requests such owners and design professionals (and construction managers) to provide the Owner with a candid evaluation of the Bidder's

performance. By submitting its bid, the Bidder agrees that if it or any person, directly or indirectly, on its behalf or for its benefit brings an action against any of such owners or design professionals (or construction managers) or the employees of any of them as a result of or related to such candid evaluation, the Bidder will indemnify and hold harmless such owners, design professionals (and construction managers) and the employees of any of them from any claims, whether or not proven, that are part of or are related to such action and from all legal fees and expenses incurred by any of them arising out of or related to such legal action. This obligation is expressly intended for the benefit of such owners, design professionals (and construction managers), and the employees of each of them.

- b. The Bidder's financial ability to complete the Contract successfully and on time without resort to its Surety.
 - c. The Bidder's prior experience with similar work on comparable or more complex projects.
 - d. The Bidder's prior history for the successful and timely completion of projects, including the Bidder's history of filing claims and having claims filed against it.
 - e. The Bidder's equipment and facilities.
 - f. The adequacy, in numbers and experience, of the Bidder's work force to complete the Contract successfully and on time.
 - g. The Bidder's compliance with federal, state, and local laws, rules, and regulations, including but not limited to the Occupational Safety and Health Act and Ohio ethics laws.
 - h. The Bidder's participation in a drug-free workplace program acceptable to the Owner, and the Bidder's record for both resolved and unresolved findings of the Auditor of State for recovery as defined in Section 9.24 of the Ohio Revised Code.
 - i. The Owner's prior experience with the Bidder's surety.
 - j. The Bidder's interest in the Project as evidenced by its attendance at any pre-bid meetings or conferences for bidders.
 - k. Depending upon the type of the work, other essential factors, as the Owner may determine and as are included in the Specifications.
 - l. The number of years the Bidder has been actively engaged as a contractor in the construction industry.
 - m. Financial responsibility demonstrated by the Bidder and whether Bidder possesses adequate resources and availability of credit, the means and ability to procure insurance and acceptable performance bonds required for the Project and whether any claims have been made against performance bonds secured by the bidder on other construction projects.
 - n. The foregoing information with respect to each of the Subcontractors and Suppliers that the Bidder intends to use on the Project.
4. **Qualifications Statement.** Each Bidder will submit with its bid a completed Contractor Qualifications Statement, which is included with the Contract Documents, and thereafter provide the Design Professional promptly with such additional information as the Design Professional may request regarding the Bidder's qualifications. A Bidder shall submit any requested additional information within 24 hours of the date on the request.
5. The failure to submit requested information on a timely basis may result in the determination that the Bidder has not submitted the lowest responsible bid.
6. By submitting its bid, the Bidder agrees that the Owner's determination of which bidder is the lowest responsible bidder shall be final and conclusive, and that if the Bidder or any person on its behalf challenges such determination in any legal proceeding, whether or not proven, the Bidder will indemnify and hold the Owner and its employees and agents harmless from any claims included or related to such legal proceeding, whether or not proven, and from legal fees and expenses incurred by the Owner, its employees, or agents that arise out of or are related to such challenge.

7. **After bid opening, within 24 hours of a request made by the Owner or Design Professional, the apparent low Bidder and any other Bidder so requested must submit the following:**

- a. **SUBCONTRACTORS:** For all subcontracts with an estimated value of at least \$20,000, a list of all Subcontractors that the Bidder will use to construct the Project, as well as an indication of whether or not the Bidder has ever worked with a proposed Subcontractor before, including the following information for the three most recent projects on which the Bidder and each Subcontractor have worked together:

- Project Owner
- Project Name
- Subcontract Scope
- Subcontract Value
- Owner's contact name and phone number.

If Bidder and a proposed Subcontractor have not worked together on at least three projects in the five years, Bidder must submit the information set forth above for the three most recent similar projects to the Project that a proposed Subcontractor has worked on.

The above Subcontractor information, as well as the information pertaining to each proposed Subcontractor, shall be used in the Owner's determination of the lowest responsible bid.

Once a Bidder identifies its proposed Subcontractors as set forth herein, and Owner makes no objections, the list shall not be changed unless written approval of the change is authorized by the Owner and Design Professional.

- b. **FINANCING:** The following additional financial information is not a public record under Ohio Revised Code Section 149.43 and will be kept confidential, except under proper order of a court, per Ohio Revised Code Section 9.312(A).

i. Provide a financial statement, preferably audited, including your organization's latest balance sheet and income statement showing the following items:

- Current Assets (e.g., cash, joint venture accounts, accounts receivable, notes receivable, accrued income, deposits, materials inventory and prepaid expenses);
- Net Fixed Assets;
- Other Assets;
- Current Liabilities (e.g., accounts payable, notes payable, accrued expenses, provision for income taxes, advances, accrued salaries and accrued payroll taxes); and
- Other Liabilities (e.g., capital, capital stock, authorized and outstanding shares par values, earned surplus and retained earnings).

ii. Provide the name and address of firm preparing attached financial statement, and date thereof.

iii. If the attached financial statement is not for the identical organization named in the completed Contractor's Qualification Statement submitted with the bid, explain the relationship and financial responsibility of the organization whose financial statement is provided (e.g., parent-subsidary).

8. Affidavit as to Personal Property Taxes. Each successful Bidder shall submit, prior to the time of the entry into the Contract, an affidavit in the form required by Section 5719.042, Ohio Revised Code, regarding the status of the Bidder's personal property taxes. A copy of the affidavit form is included with the Contract Documents.
9. No Bidder may withdraw its bid within **sixty (60)** days after the date bids are opened. The Owner reserves the right to waive any formalities or irregularities or to reject any or all bids.
10. The Owner reserves the right to disqualify bids, before or after opening, upon evidence of collusion with intent to defraud or other illegal practices on the part of the Bidder.
11. Award of Contract. The award of the Contract, when required, will only be made pursuant to a duly adopted resolution of the Owner.

I. EXECUTION OF CONTRACT

1. Within the time designated by the Owner or Design Professional after award of the Contract, the successful Bidder shall execute and deliver to the Owner or Design Professional the required number of copies of the Owner-Contractor Agreement, in the form included in the Contract Documents, and all accompanying documents requested, including, but not limited to, a Contract Bond (if applicable), insurance certificates, and a valid Workers' Compensation Certificate. The successful Bidder shall have no property interest or rights under the Owner-Contractor Agreement until the Agreement is executed by the Owner.

J. SUBSTITUTIONS/NON-SPECIFIED PRODUCTS

1. Certain brands of material or apparatus are specified. Each bid will be based on these brands, which may be referred to in the Contract Documents as Standards. The use of another brand (referred to as a substitution or proposed equal in the Contract Documents, when a bidder or the contractor seeks to have a different brand of material or apparatus than that specified approved by the Owner for use in the Project) may be requested as provided herein.
2. The products specified in the Contract Documents establish a standard of required function, dimension, appearance, and quality.
3. Bidders wishing to obtain approval to bid non-specified products shall submit written requests to the Design Professional a minimum of ten (10) calendar days before the bid date and hour. To facilitate the submission of requests, a Pre-Bid Substitution Form is included in the Contract Documents. The Bidder shall include the name of the material or equipment for which it is to be substituted and a complete description of the proposed substitution, including the name of the proposed manufacturer and/or product and a complete description of the proposed product including the manufacturer's name and model number or system proposed, drawings, product literature, performance and test data, color selections or limitations, and any other information necessary for evaluation. Include a statement including any changes in other materials, equipment, or other work that would be required if the proposed product is incorporated in the materials, equipment, or other work that would be required if the proposed product is incorporated in the work. The burden of proof of the merit of the proposed product is on the proposer. The Design Professional's decision on approval of a proposed product will be final.

The following will be cause for rejection of a proposed substitution:

- a. Requests submitted by subcontractors, material suppliers, and individuals other than Bidders;

- b. Requests submitted without adequate documentation;
 - c. Requests received after the specified cut-off date.
4. When the Design Professional approves a product submission before receipt of bids, the approval will be included in an Addendum, and Bidders may include the pricing of this product in their bid. Bidders shall not rely on approvals made in any other manner.
 5. In proposing a non-specified product or a substitution, the Bidder represents and warrants that each proposed product will not result in any changes to the Project, including changes to the Work of other contractors, or any decrease in the performance of any equipment or systems to be installed in the Project and agrees to pay any additional costs incurred by the Owner and the Owner's consultants as a result of a non-specified or substitute product that is accepted.
 6. Following the award of the Contract, there shall be no substitutions for specified products, except pursuant to a Change Order. The Owner in its sole discretion may decline to consider a substitution for a Change Order.

K. ALTERNATES

1. The Owner may request bids on alternates. If the Owner requests bids on alternates, the Bidder should include the cost of the alternates requested on its Bid Form.
2. At the time of awarding the Contract, the Owner will select or reject alternates as it determines is in its best interest. A Bidder's failure to include on its Bid Form the cost of an alternate selected by the Owner and applicable to the Bidder's work shall render the bid non-responsive and be grounds for the rejection of the bid. Otherwise, the failure to include the cost of an alternate will not be deemed material.
3. The Bidder acknowledges that although there is an estimate for the cost of the Project, the market conditions may and frequently do result in the estimate being different from the sum of the bids received, either higher or lower. The Bidder understands that the Owner may include alternates, which may include deduct alternates as well as add alternates, to give it flexibility to build the Project with the funds available. The Bidder further understands and acknowledges that use of add and deduct alternates is a long held customary practice in the construction industry in the State of Ohio. The Bidder also acknowledges that the Owner will not make a decision about the alternates on which to base the award of contracts until the bids are received, and the Owner can compare its available funds with the base bids and the cost or savings from selecting different alternates. The Bidder understands that the award to the Bidder submitting the lowest responsible bid will be based on the lowest base bid plus selected alternates, and may result in an award to a Bidder other than the Bidder that submitted the lowest base bid.
4. If, during the progress of the Work, the Owner desires to reinstate any alternate not included in the Contract, the Owner reserves the right to reinstate the alternate at the price bid by the Contractor provided that such action is taken in sufficient time so as not to delay the progress of the work or cause the Contractor additional expense.

L. UNIT PRICES

1. Where unit prices are requested in the Bid Form the Bidder should quote a unit price. Unless otherwise expressly provided in the Contract Documents, such unit prices shall include all labor, materials, and services necessary for the timely and proper installation of the item for which the unit prices are requested. The unit prices quoted in the bid shall be the basis for any Change Orders entered into under the Owner-Contractor Agreement, unless the Design Professional determines that the use of such unit prices will cause substantial inequity to either the Contractor or the Owner.

M. ADDENDA

1. The Owner reserves the right to issue Addenda changing, altering, or supplementing the Contract Documents prior to the time set for receiving bids. The Design Professional will issue the Addenda to clarify bidders' questions and/or to change, alter, or supplement the Contract Documents.
2. Any explanation, interpretation, correction, or modification of the Contract Documents will be issued in writing in the form of an Addendum, which shall be the only means considered binding; explanations, interpretations, etc., made by any other means shall NOT be legally binding. All Addenda shall become a part of the Contract Documents.
3. Bidders shall submit written questions to **Mark Wiseman, AIA, LEED AP, at mwiseman@levin-porter.com by 12:00 p.m. Noon, September 28th, 2026** to allow sufficient time for the Design Professional to respond. All Addenda will be issued, except as hereafter provided, and e-mailed or otherwise furnished to persons who have obtained Contract Documents for the Project, at least seventy-two (72) hours prior to the published time for the opening of bids, excluding Saturdays, Sundays, and legal holidays. If any Addendum is issued within such seventy-two (72) hour period, then the time for opening of bids shall be extended one (1) week with no further advertising of bids required.
4. Copies of each Addendum will be sent only to the Bidders to whom Contract Documents have been issued and to Plan Rooms where copies of the Contract Documents are maintained. Receipt of Addenda shall be indicated by Bidders in the space provided on the Bid Form. Bidders are responsible for acquiring issued Addenda in time to incorporate them into their bid. Bidders should contact the Design Professional prior to the bid opening to verify the number of Addenda issued.
5. Each Bidder shall carefully read and review the Contract Documents and immediately bring to the attention of the Design Professional any error, omission, inconsistency, or ambiguity therein.
6. If a Bidder fails to indicate receipt of all Addenda through the last Addendum issued by the Design Professional on its Bid Form, the bid of such Bidder will be deemed to be responsive only if:
 - a. The bid received clearly indicates that the Bidder received the Addendum, such as where the Addendum added another item to be bid upon and the Bidder submitted a bid on that item; or
 - b. The Addendum involves only a matter of form or is one which has either no effect or has merely a trivial or negligible effect on price, quantity, quality, or delivery of the item bid upon.

N. INTERPRETATION

1. If a Bidder contemplating submitting a bid for the proposed Project is in doubt as to the true meaning of any part of the Contract Documents, it may submit a written request for an interpretation thereof to **Mark Wiseman, AIA, LEED AP, at mwiseman@levin-porter.com by the deadline for questions per paragraph L.3 above**. Any interpretation of the proposed documents will be made by Addendum only, duly signed by the Design Professional, and a copy of such Addendum will be mailed or delivered to each Bidder receiving a set of Contract Documents and each plan room where the Contract Documents are maintained. The Owner will not be responsible for any other explanation or interpretation of the proposed documents.
2. In interpreting the Contract Documents, words describing materials that have a well-known technical or trade meaning, unless otherwise specifically defined in the Contract Documents, shall be construed in accordance with the well-known meaning recognized by the trade.
3. Bidders are responsible for notifying the Owner and the Design Professional in a timely manner of any ambiguities, inconsistencies, errors, or omissions in the Contract Documents. The Bidder shall not, at any time after the execution of the Contract, be compensated for a claim alleging insufficient data, incomplete Contract Documents, or incorrectly assumed conditions

regarding the nature or character of the Work, if no request was made by the Bidder prior to the bid opening.

O. STATE SALES AND USE TAXES

1. The Owner is a political subdivision of the State of Ohio and is exempt from taxation under the Ohio Sales Tax and Use Tax Laws. Building materials that the successful Bidder purchases for incorporation into the Project will be exempt from state sales and use taxes if the successful Bidder provides a properly completed Ohio Department of Taxation Construction Contract Exemption Certificate to the vendors or suppliers when the materials are acquired. The Owner will execute properly completed certificates on request.

P. DATE FOR SUBSTANTIAL COMPLETION/ DATE FOR FINAL COMPLETION /LIQUIDATED DAMAGES

1. The Date for Substantial Completion (aka Contract Time), Date for Final Completion, and Liquidated Damages shall be as defined and set forth in the Owner-Contractor Agreement. **By submitting its Bid, each Bidder agrees that the period for performing its Work is reasonable.**

Q. OWNER'S RIGHT TO WAIVE DEFECTS AND IRREGULARITIES

1. The Owner reserves the right to waive any and all irregularities provided that the defects and irregularities do not affect the amount of the bid in any material respect or otherwise give the Bidder a competitive advantage.

R. MODIFICATION/WITHDRAWAL OF BIDS

1. Modification. A Bidder may modify its bid by written communication to the Owner addressed to the Owner's Representative at any time prior to the scheduled closing time for receipt of bids, provided such written communication is received by Owner's Representative prior to the bid deadline. The written communication shall not reveal the bid price, but should provide the addition or subtraction or other modification so that the final prices or terms will not be known until the sealed bid is opened. If the Bidder's written instructions with the change in bid reveal the bid amount in any way prior to the bid opening, the bid may be rejected as non-responsive.
2. Withdrawal Prior to Bid Deadline. A Bidder may withdraw its bid at any time for any reason prior to the bid deadline for the opening of bids. The request to withdraw shall be made in writing to and received by the Owner prior to the time of the bid opening.
3. Withdrawal after Bid Deadline.
 - a. All bids shall remain valid and open for acceptance for a period of at least 60 days after the bid opening; provided, however, that a Bidder may withdraw its bid from consideration after the bid deadline when all of the following apply:
 - (1) the price bid was substantially lower than the other bids;
 - (2) the reason for the bid being substantially lower was a clerical mistake, rather than a mistake in judgment, and was due to an unintentional and substantial error in arithmetic or an unintentional omission of a substantial quantity of work, labor, or material;
 - (3) the bid was submitted in good faith; and
 - (4) the Bidder provides written notice to the Owner, to the attention of the Owner's Representative, within two (2) business days after the bid opening for which the right to withdraw is claimed.
 - b. No bid may be withdrawn under this provision if the result would be the awarding of the contract on another bid for the bid package from which the Bidder is withdrawing its bid to the same Bidder.

- c. If a bid is withdrawn under this provision, the Owner may award the Contract to another Bidder determined by the Owner to be the lowest responsible bidder or the Owner may reject all bids and advertise for other bids. In the event the Owner advertises for other bids, the withdrawing Bidder shall pay the costs incurred in connection with the rebidding by the Owner, including the cost of printing new Contract Documents, required advertising, and printing and mailing notices to prospective bidders, if the Owner finds that such costs would not have been incurred but for such withdrawal.

S. COMPLIANCE WITH APPLICABLE LAWS

1. By submitting a bid for Work on the Project, the Bidder acknowledges that it is in compliance with applicable federal, state, and local laws and regulations, including, but not limited to, the following:
 - a. Equal Employment Opportunity/Nondiscrimination. The Bidder agrees that if it is awarded a contract that in the hiring of employees for performance of work under the contract or any subcontract, neither it nor any subcontractor, or any person acting on its behalf or its subcontractor's behalf, by reason of race, creed, sex, disability as defined in Section 4112.01 of the Ohio Revised Code, or color, shall discriminate against any citizen of the state in the employment of labor or workers who are qualified and available to perform work to which the employment relates. The Bidder further agrees that neither it nor any subcontractor or any person on its behalf or on behalf of any subcontractor, in any manner, shall discriminate against or intimidate any employees hired for the performance of the work under the contract on account of race, creed, sex, disability as defined in Section 4112.01 of the Ohio Revised Code, or color.
 - b. Ethics Laws. The Bidder represents that it is familiar with all applicable ethics law requirements, including without limitation Sections 102.04 and 3517.13 of the Ohio Revised Code, and certifies that it is in compliance with such requirements.

T. FINDINGS FOR RECOVERY

1. By submitting its bid, each Bidder certifies for reliance of the Owner that it has no unresolved finding for recovery against it issued by the Auditor of the State of Ohio on or after January 1, 2001, except as permitted by Section 9.24 (F) of the Ohio Revised Code.

END OF SECTION

SECTION 006500
PROJECT FORMS

STATEMENT OF CLAIM FORM
Claim No. _____ for Contractor

1. Name of Contractor: _____
2. Date written claim given: _____.
3. Contractor's representative to contact regarding the claim:
Name: _____ Title: _____
Telephone No. _____ (office) FAX No. _____
E-mail: _____
4. General description of claim:

5. Contract Documents. If the claim is based upon any part or provision in the Contract Documents, including but not limited to pages in the Drawings and/or paragraphs in the Specifications, Owner-Contractor Agreement, General Conditions or Supplementary General Conditions, state upon which parts or provisions the claim is based:

6. Delay claims:
6.1 Date delay commenced: _____
6.2 Duration or expected duration of the delay, if known: _____
6.3 Apparent cause of the delay and part of critical path affected:

6.4 Expected impact of the delay and recommendations for minimizing such impact:

7. Additional compensation. Set forth in detail all additional compensation to which the Contractor believes it is entitled with respect to this claim:

8. Instructions for Completing the Statement of Claim Form ("Instructions"). The Instructions are incorporated in this Form.
9. Truth of Claim. By submitting this claim, the Contractor and its representative certify that after conscientious and thorough review and to the best of his or her knowledge and belief a) the Contractor has

complied fully with the Instructions, b) the information in this State of Claim is accurate, c) the Contractor is entitled to recover the compensation in paragraph 7, and d) the Contractor has not knowingly presented a false or fraudulent claim. The Contractor by its authorized representative must acknowledge this Statement of Claim before a notary public.

CONTRACTOR: _____

By: _____

Name and Title: _____

Date: _____

CONTRACTOR'S ACKNOWLEDGMENT

State of _____,
County of _____, ss:

_____ first being sworn, states that after conscientious and thorough review, the statements made in attached Statement of Claim Form are complete and true to the best of his or her knowledge and belief.

Sworn to before me a notary public by _____ on _____, 20____. The notarial act certified hereby is a jurat. An oath or affirmation was administered to the signer with regard to the notarial act certified to hereby.

Notary Public

WHEN COMPLETED, FORWARD A COPY OF THIS NOTICE AND STATEMENT OF CLAIM FORM TO THE OWNER AND DESIGN PROFESSIONAL.

INSTRUCTIONS FOR COMPLETING THE STATEMENT OF CLAIM FORM

1. Completing the Statement of Claim Form ("Claim Form") is a material term of the Contract. The Claim Form tells the Owner and Design Professional that the Contractor is making a Claim and that they need to act promptly to mitigate the effects of the occurrence giving rise to the Claim. The Claim Form also provides them with information so that they can mitigate such effects. The Contractor acknowledges that constructive knowledge of the conditions giving rise to the Claim through job meetings, correspondence, site observations, etc. is inadequate notice, because knowledge of these conditions does not tell the Owner and Design Professional that the Contractor will be making a Claim and most often is incomplete.

2. If the space provided in the Claim Form is insufficient, the Contractor, as necessary to provide complete and detailed information, must attach pages to the Claim Form with the required information.

3. Paragraph 4. The Contractor must state what it wants, *i.e.*, time and/or compensation, and the reason why it is entitled to time and/or compensation.

4. Paragraph 5. The Contractor must identify the exact provisions of the Contract Documents it is relying on in making its Claim. For example, if the Claim is for a change in the scope of the Contractor's Work, the Contractor must identify the specific provisions of the Specifications, and the Plan sheets and details that provide the basis for the scope change.

5. Paragraph 6. This paragraph applies to delay claims, including delays that the Contractor believes result in constructive acceleration. The Contractor must identify the cause of the delay, party or parties responsible, and what the party did or did not do that caused the delay, *i.e.*, specific work activities. The Contractor acknowledges that general statements are not sufficient, and do not provide the Owner with sufficient information to exercise the remedies available to the Owner or to mitigate the effects of the delay.

For example, if the Contractor claims a slow response time on submittals caused a delay, the Contractor must identify the specific submittals, all relevant dates, and then show on the applicable schedule, by circling or highlighting, the activities immediately affected by the delays. Also for example, if the Contractor claims it was delayed by another Contractor, the Contractor must identify the delaying Contractor, specifically what the delaying Contractor did or did not do that caused the delay, and then show the applicable schedule, by circling or highlighting, the activities immediately affected by the delays. Further by example, if the Contractor seeks an extension of time for unusually severe weather, the Contractor must submit comparative weather data along with a record of the actual weather at the job site and job site conditions.

6. Paragraph 6.4. Time is of the essence under the Contract Documents. If there is a delay, it is important to know what can be done to minimize the impact of the delay. It therefore is important that the Contractor provide specific recommendations on how to do so.

7. Paragraph 7. The Contractor must provide a specific and detailed breakdown of the additional compensation it seeks to recover. For future compensation, the Contractor shall provide its best estimate of such compensation.

8. Paragraph 8 and Acknowledgment. By submitting this Claim, the Contractor and its representative certify that after conscientious and thorough review and to the best of his or her knowledge and belief a) the Contractor has complied fully with the Instructions, b) the information in this Claim Form is accurate, c) the Contractor is entitled to recover the compensation in paragraph 7, and d) the Contractor has not knowingly presented a false or fraudulent claim. The Contractor by its authorized representative must acknowledge this Statement of Claim before a notary public.

End of Instructions

CERTIFICATE OF SUBSTANTIAL COMPLETION

Project:
Warren County Career Center
Medical Academy Addition

Contract For:
General Contract

Owner:
Warren County Career Center Board of
Education

CONTRACTOR: [insert name and address]

The Design Professional hereby certifies that the Date for Substantial Completion of the Contractor's Work as set forth in the Owner-Contractor Agreement is:

July 31st, 2027

The Design Professional hereby certifies that the Date for Substantial Completion in the Contractor's Agreement with the Owner (the "Agreement"), as extended by Change Orders and Claims submitted by the Contractor that have been Finally Resolved, as defined below, is:

1. Date for Substantial Completion in the Agreement
(above): July 31st, 2027
2. Additional days added to Date for Substantial Completion
by Change Order: _____
3. Additional days added by Claims that have been
Finally Resolved: _____
4. Date for Substantial Completion in the Contract
Adjusted by days under No. 2 and No. 3 _____

"Finally Resolved" means that the Design Professional has made a decision (or declined to make a decision) on the Claim under the General Conditions and that any litigation regarding the Claim has been concluded.

The Design Professional certifies that the Contractor's Work to the best of the Design Professional's knowledge, information, and belief was Substantially Complete, as Substantial Completion is defined in the Contract Documents, on _____.

The Design Professional hereby certifies that the difference between (a) the Date for Substantial Completion adjusted by the days under No. 2 and No. 3 above and (b) the date the Contractor's Work was Substantially Complete is _____ days.

NOTICES OF DELAY. The Design Professional hereby certifies that all "NOTICES OF DELAY" submitted by the Contractor and described in the General Conditions are attached to this Certificate. This certification is solely for the purpose of identifying all "NOTICES OF DELAY" submitted by the Contractor and is not intended to imply that any of these NOTICES OF DELAY were properly submitted in accordance with Contract Documents or are valid.

STATEMENT OF CLAIM FORMS. The Design Professional hereby certifies that all Statement of Claim Forms described in the General Conditions and submitted by the Contractor are attached to this Certificate. This certification is solely for the purpose of identifying all Statement of Claim Forms submitted by the Contractor and is not intended to imply that any of these Statement of Claim Forms were properly submitted in accordance with Contract Documents or are valid.

PUNCHLIST ITEMS. A list of items to be completed by the Contractor is attached to this Certificate. The failure to include items on this list does not change the responsibility of the Contractor to complete its Work in accordance with the Contract Documents. The Contractor shall complete all items on the Punchlist in accordance with the Contract Documents.

Security, maintenance, utilities, damage to the Work and insurance are the responsibility of the Owner and the Contractor based on their operations pursuant to final completion of the Work.

Copies of this Certificate were provided to the Contractor and the Owner on _____

Signature: _____

Date: _____

**CONTRACTOR'S AFFIDAVIT AND CERTIFICATION WITH LIST OF SUBCONTRACTORS
AND SUPPLIERS WITH ANY AMOUNTS WITHHELD**

PROJECT:
Warren County Career Center
Medical Academy Addition

CONTRACTOR:

In Support of PAYMENT APPLICATION No.:

For the Period Through:

STATE OF _____ :
: SS,
COUNTY OF _____ :

The undersigned after first being sworn swears that a) all previous progress payments received on account of the Work have been applied on account to discharge Contractor's legitimate obligations associated with prior Applications for Payment; b) set forth below is a complete list of its Subcontractors and Suppliers; and c) set forth below is a complete description of all amounts withheld from any Subcontractor or Supplier and the reason why. Attach additional sheets if necessary.

Typed or Printed Name of Subcontractor or Supplier	Address of Subcontractor or Supplier	Telephone Number of Subcontractor or Supplier

Typed or Printed Name of Subcontractor or Supplier	Address of Subcontractor or Supplier	Telephone Number of Subcontractor or Supplier

WITHHOLDINGS FROM SUBCONTRACTORS AND/OR SUPPLIERS:

Typed or Printed Name of Subcontractor or Supplier	Amount Withheld	Reason for Withholding

Moreover, Contractor certifies that, except for as set forth immediately above, Contractor has paid all of its subcontractors and suppliers who were due to be paid with the proceeds of the prior Application for Payment and Contractor acknowledges that Owner is relying upon such certification when paying Contractor the amount asked for in the payment application that this Affidavit and Certification supports.

CONTRACTOR: [insert name]

BY: _____
(Signature of authorized representative)

NOTARY PUBLIC

Subscribed and sworn to before me on this date by _____ on behalf of _____.
The notarial act certified hereby is a jurat. An oath or affirmation was administered to the signer with regard to the notarial act certified to hereby.

Signature of Notary Public

Notary Public: _____

My Commission Expires: _____

**CONTRACTOR'S WAIVER & RELEASE AFFIDAVIT
("AFFIDAVIT")**

Project: Warren County Career Center – Medical Academy Addition

The undersigned hereby acknowledges receipt of payment for all Work on the Project through the date of the prior Application for Payment by the **Warren County Career Center Board of Education** (the "Owner") with which it has a contract for the Project.

In return for said payment, and/or pursuant to certain contractual obligations of the undersigned, the undersigned hereby waives and releases any rights it has or may have through the date of the last Application for Payment to any and all types of claims relating to the Project, including without limitation claims of payment, Mechanic's Lien, stop notice, equitable lien, labor and material bond, breach of contract or unjust enrichment, or any other claim against the Owner, for any labor, materials, or equipment the undersigned may have delivered or provided to the Project, except for any Claims the undersigned has made by properly and timely submitting a Statement of Claim form. The undersigned further certifies that this Affidavit covers claims by all contractors, subcontractors, and suppliers who may have provided any labor, material, or equipment to the Project through the undersigned or at the undersigned's request. The undersigned acknowledges that all such contractors, subcontractors, sub-subcontractors and suppliers have signed an affidavit in the form of this Affidavit releasing any and all claims against the Owner, except for any Claims the undersigned has made by properly and timely submitting a Statement of Claim form. The undersigned hereby represents and warrants that it has paid any and all welfare, pension, vacation or other contributions required to be paid on account of the employment by the undersigned of any laborers on the Project.

This Affidavit is for the benefit of, and may be relied upon by the Owner. The undersigned hereby agrees to indemnify, defend and hold harmless each of the foregoing, the Project, work of improvement, and real property from any and all claims, or liens that are or should have been released in accordance with this Affidavit.

Company Name

Authorized Signature (Company Officer)

Title

Date

State of: _____ County of _____

Subscribed and sworn to before me this
_____ day of _____

_____. The notarial
act certified hereby is a jurat. An oath or
affirmation was administered to the signer with
regard to the notarial act certified to hereby.

Notary Public: _____

My Commission Expires: _____

**SUBCONTRACTOR'S, SUPPLIERS WAIVER & RELEASE AFFIDAVIT
("AFFIDAVIT")**

Project: Warren County Career Center – Medical Academy Addition

The undersigned hereby acknowledges receipt of payment for all Work on the Project through the date of the prior Application for Payment by the Contractor ("Contractor") with which it has a contract.

In return for said payment, and/or pursuant to certain contractual obligations of the undersigned, the undersigned hereby waives and releases any rights it has or may have through the date of the Contractor's last Application for Payment and to any and all types of claims relating to the Project, including without limitation claims of payment, Mechanic's Lien, stop notice, equitable lien, labor and material bond, breach of contract or unjust enrichment, or any other claim against the Contractor, the Contractor's surety, and/or the **Warren County Career Center Board of Education** (the "Owner"), for any labor, materials, or equipment the undersigned may have delivered or provided to the Project, except for any Claims the undersigned has made by properly and timely submitting a Statement of Claim form, a copy of which has been delivered to the Owner. The undersigned further certifies that this Affidavit covers claims by all contractors, subcontractors and suppliers through the date of the Contractor's last Application for Payment who may have provided any labor, material, or equipment to the Project through the undersigned or at the undersigned's request. The undersigned acknowledges that all such contractors, subcontractors, sub-subcontractors and suppliers have signed an affidavit in the form of this Affidavit releasing any and all claims against the Contractor, the Contractor's surety, and/or the Owner, except for any Claims made by properly and timely submitting a Statement of Claim form a copy of which has been delivered to the Owner. The undersigned hereby represents and warrants that it has paid any and all welfare, pension, vacation or other contributions required to be paid on account of the employment by the undersigned of any laborers on the Project.

The undersigned agrees that upon receipt of the payment from the Contractor with respect to the Contractor's current Application for Payment, it shall, if applicable, immediately execute and cause to be filed or recorded a legally effective Satisfaction of Lien, Release of Lien, or any other legal instrument necessary to cause prejudicial dismissal and release of any lien, encumbrance, lawsuit, or other claim against the Contractor, the Contractor's surety and the Owner, the property where the Project is located, and/or any surety bond posted by the Contractor or the Owner to the extent of the foresaid payment. Upon request of the Contractor, the undersigned shall provide proof of having complied with this obligation.

This Affidavit is for the benefit of, and may be relied upon by, the Contractor, the Contractor's surety and the Owner. The undersigned hereby agrees to indemnify, defend and hold harmless each of the foregoing, the Project, its Work, and real property from any and all claims, or liens that are or should have been released in accordance with this Affidavit and from any liability, cost, or expense incurred as a result of any breach of this Affidavit by the undersigned.

Company Name

Authorized Signature (Company Officer)

Title

Date

State of: _____ County of _____

Subscribed and sworn to before me this
_____ day of _____.

The notarial
act certified hereby is a jurat. An oath or
affirmation was administered to the signer with
regard to the notarial act certified to hereby.

Notary Public: _____

My Commission Expires: _____

**CONTRACTOR'S FINAL WAIVER & RELEASE AFFIDAVIT
("AFFIDAVIT")**

Project: Warren County Career Center – Medical Academy Addition

In consideration for payment received from the Warren County Career Center Board of Education (the "Owner") in the amount requested in Contractor's Final Application for Payment to the Owner, the receipt of which is hereby acknowledged, the undersigned Contractor hereby waives and releases any rights it has or may have to any and all types of claims relating to the Project, including without limitation claims of payment, Mechanic's Lien, stop notice, equitable lien, labor and material bond, breach of contract or unjust enrichment, or any other claim against the Owner, for any labor, materials, or equipment the undersigned may have delivered or provided to the Project, except for any Claims the undersigned has made by properly and timely submitting a Statement of Claim form. The undersigned further certifies that this Affidavit covers claims by all contractors, subcontractors, and suppliers who may have provided any labor, material, or equipment to the Project through the undersigned or at the undersigned's request. The undersigned acknowledges that all such contractors, subcontractors, sub-subcontractors and suppliers have signed an affidavit in the form of this Affidavit releasing any and all claims against the Owner, except for any Claims the undersigned has made by properly and timely submitting a Statement of Claim form. The undersigned hereby represents and warrants that it has paid any and all welfare, pension, vacation or other contributions required to be paid on account of the employment by the undersigned of any laborers on the Project.

This Affidavit is for the benefit of, and may be relied upon by the Owner. The undersigned hereby agrees to indemnify, defend and hold harmless each of the foregoing, the Project, work of improvement, and real property from any and all claims, or liens that are or should have been released in accordance with this Affidavit,

Company Name

Authorized Signature (Company Officer)

Title

Date

State of: _____ County of _____

Subscribed and sworn to before me this

_____ day

of _____.

The notarial act certified hereby is a jurat. An oath or affirmation was administered to the signer with regard to the notarial act certified to hereby.

Notary Public: _____

My Commission Expires: _____

SUBCONTRACTOR'S, SUPPLIERS FINAL WAIVER & RELEASE AFFIDAVIT
("AFFIDAVIT")

Project: Warren County Career Center – Medical Academy Addition

Upon receipt of payment in the amount of \$_____ received from _____ ("Prime Contractor") the undersigned Subcontractor or Supplier waives and relinquishes all rights of lien or claim that it may have either in law or equity (including but not limited to rights under Ohio Mechanics' Lien Laws, O.R.C. 1311.01 *et seq.*) with respect to the construction project known as **Medical Academy Addition** ("the Project"), for all labor, all equipment, and/or materials provided to or on behalf of the Project throughout its entirety, except for claims previously made pursuant to the agreement in place between Subcontractor or Supplier and Prime Contractor, and any lien previously perfected and remaining unreleased.

The undersigned Subcontractor or Supplier acknowledges and agrees that such payment represents final payment in full for all such labor, equipment and/or materials including retainage, if any, and that the Subcontractor or Supplier has completed its work on the Project. The undersigned Subcontractor or Supplier certifies that all amounts have been paid by the Subcontractor or Supplier for all work or materials furnished by others to the Subcontractor or Supplier for which the Subcontractor or Supplier has received previous payments from Prime Contractor, and Subcontractor or Supplier acknowledges that Prime Contractor is now making payment to the Subcontractor or Supplier in reliance upon such certification. The undersigned Subcontractor or Supplier further certifies that it will pay all amounts lawfully owing for all work or materials furnished by others to the Subcontractor or Supplier with the payment received from Contractor referenced herein.

This Affidavit is for the benefit of, and may be relied upon by, the Contractor, the Contractor's surety and the Owner. The undersigned hereby agrees to indemnify, defend and hold harmless each of the foregoing, the Project, its Work, and real property from any and all claims, or liens that are or should have been released in accordance with this Affidavit and from any liability, cost, or expense incurred as a result of any breach of this Affidavit by the undersigned.

IN WITNESS WHEREOF, the undersigned has caused this Affidavit to be executed by its authorized representative as of the date indicated below.

SUBCONTRACTOR OR SUPPLIER:

Company Name

Authorized Signature (Company Officer)

Title

Date

State of: _____ County of _____

Subscribed and sworn to before me this _____
day of _____.

The notarial act certified hereby is a jurat. An
oath or affirmation was administered to the signer with
regard to the notarial act certified to hereby.

Notary Public: _____

My Commission Expires: _____

CONTRACTOR'S PAYMENT APPLICATION CHECKLIST

THE CONTRACTOR MUST COMPLETE THIS CHECKLIST AND SUBMIT IT TO THE DESIGN PROFESSIONAL WITH ITS PAYMENT APPLICATION AND ALL REQUIRED DOCUMENTATION.

1. Contractor's Name: _____
2. Name, title, and telephone and fax numbers of Contractor's representative to contact regarding the Payment Application and required documentation:
Name: _____ Title: _____
Office Telephone No.: (_____) _____ FAX No.: (____) _____

3. Payment Application Number and Date:
No. _____ Date: __ ____, 20__
4. The following is a list of required documentation that must accompany its Payment Application. The Contractor certifies that it has submitted the documentation listed below with its Payment Application. If the Contractor cannot do so, the Contractor should explain why in Paragraph 5. Such explanations shall not excuse the Contractor from the requirements for submitting this documentation.
 - _____ .1 Five (5) copies of a properly completed and executed Application for Payment with a properly completed and executed Schedule of Values attached to each;
 - _____ .2 Properly Completed Contractor's Affidavit with List of Subcontractors and Suppliers and Any Amounts Withheld;
 - _____ .3 Contractor's Waiver and Release Agreement (beginning with the second Application for Payment);
 - _____ .4 For each of its Subcontractors and Suppliers, a Subcontractor's – Supplier's Waiver and Release Agreement (beginning with the second Application for Payment);
 - _____ .5 Schedule of all materials and equipment stored on-site;
 - _____ .6 For materials and equipment stored off-site:
 - _____ A list of the materials and equipment consigned and stored off-site in connection with the Project (which shall be clearly identified), giving the place of storage, together with copies of invoices and reasons why the materials and equipment cannot be delivered to the site;
 - _____ Certification that all items have been tagged for delivery to the Project and that they will not be used for any other purpose;
 - _____ A letter from the Contractor's surety bonding company indicating agreement to the arrangements and that payment to the Contractor shall not relieve either party of its responsibility to complete the facility;
 - _____ Evidence of adequate insurance covering the material and equipment in storage, which shall name the Owner as additional insured;
 - _____ Evidence that the Design Professional has visited the Contractor's place of storage and found that all the materials and equipment set forth in the payment request and represented to be stored off-site are stored at the place of storage (any costs incurred by the Design Professional to inspect material and equipment in off-site storage shall be paid by the Contractor); and
 - _____ Itemization of the materials and equipment and their cost, which were approved on previous Pay Applications and which remain in off-site storage.

_____.7 Other documentation or information required by the Contract Documents or by the Design Professional or Owner.

5. Reason why required documentation is not submitted:

NOTE: The failure to submit required documentation, regardless of the reason, may result in non-payment, partial payment, and/or late payment.

Signature

Printed Name

Date

DESIGN PROFESSIONAL'S REVIEW

_____ Checklist and documentation complete.

_____ Checklist and documentation incomplete.

Signature

Printed Name

Date

Note: Certain brands of material or apparatus are specified. Each bid will be based on these brands, which may be referred to in the Contract Documents as Standards. The use of another brand (referred to as a substitution or proposed equal in the Contract Documents, when a bidder or the contractor seeks to have a different brand of material or apparatus than that specified approved by the Owner for use in the project) may be requested as provided in the Instruction to Bidders.

<u>Specification Section</u>	<u>Brand or Name Specified</u>	<u>Proposed Substitution</u>
------------------------------	--------------------------------	------------------------------

[illegible]

END OF SECTION

SECTION 033543

POLISHED CONCRETE FINISHING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes polished concrete finishing.
- B. Related Sections
 - 1. 03 15 16 – Concrete Construction Joints

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Samples: For each type of product requiring color selection.

1.3 QUALITY ASSURANCE

- A. Field Sample Panels: After approval of samples, produce field sample panels to demonstrate the approved range of selections made under Sample submittals. Produce a minimum of three sets of full-scale panels, approximately 48 by 48 inches (1200 by 1200 mm) minimum, to demonstrate the expected range of finish, color, and appearance variations.
 - 1. Locate panels as indicated or, if not indicated, as directed by Architect.
 - 2. Maintain field sample panels during construction in an undisturbed condition as a standard for judging the completed Work.
 - 3. Demolish and remove field sample panels when directed.

PART 2 - PRODUCTS

2.1 LIQUID FLOOR TREATMENTS

- A. Penetrating Liquid Floor Treatments for Polished Concrete Finish: Clear, waterborne solution of inorganic silicate or silicate materials and proprietary components; odorless; that penetrates, hardens, and is suitable for polished concrete surfaces.
- B. Basis-of-Design Product: The design for the Liquid Floor treatment is based on the manufacturer identified below. Subject to compliance with requirements, provide the named product or a comparable product by one of the following:
 - 1. Basis-of-Design: Euclid Chemical Company
 - a. Euco Diamond Hard
 - b. Liquid Densifier and Sealer for Concrete.
 - c. Used in conjunction with Bellatrix Premium Concrete Enhancer

2. H&C Decorative Concrete Products
3. Prosoco, Inc

PART 3 - EXECUTION

3.1 POLISHING

- A. Polish: Level 3: High sheen, 800 grit
- B. Apply polished concrete finish system to cured and prepared slabs.
 1. Machine grind floor surfaces to receive polished finishes level and smooth.
 2. Apply penetrating liquid floor treatment for polished concrete in polishing sequence and according to manufacturer's written instructions, allowing recommended drying time between successive coats.
 3. Continue polishing with progressively finer-grit diamond polishing pads to gloss level, to match approved mockup.
 4. Control and dispose of waste products produced by grinding and polishing operations.
 5. Neutralize and clean polished floor surfaces.

3.2 STAINING

- A. Newly placed concrete shall be at least 14 days old before staining.
- B. Prepare surfaces according to manufacturer's written instructions and as follows:
 1. Clean concrete thoroughly by scraping, applying solvents or stripping agents, sweeping and pressure washing, or scrubbing with a rotary floor machine and detergents recommended by stain manufacturer. Rinse until water is clear and allow surface to dry.
 - a. Do not use acidic solutions to clean surfaces.
 2. Test surfaces with droplets of water. If water beads and does not penetrate surface, or penetrates only in some areas, profile surfaces by acid etching or grinding, sanding, or abrasive blasting. Retest and continue profiling surface until water droplets immediately darken and uniformly penetrate concrete surfaces.
 3. Apply acidic solution to dampened concrete surfaces, scrubbing with uncolored, acid-resistant nylon-bristle brushes until bubbling stops and concrete surface has texture of 120-grit sandpaper. Do not allow solution to dry on concrete surfaces. Rinse until water is clear. Control, collect, and legally dispose of runoff.
 4. Neutralize concrete surfaces and rinse until water is clear. Test surface for residue with clean white cloth. Test surface according to ASTM F 710 to ensure pH is between 7 and 8.

END OF SECTION 033543

SECTION 057300

DECORATIVE METAL RAILINGS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Railing systems.

1.02 RELATED REQUIREMENTS

- A. Section 033000 - Cast-in-Place Concrete: Placement of anchors in concrete.

1.03 REFERENCE STANDARDS

- A. AAMA 611 - Specification for Anodized Architectural Aluminum; 2026.
- B. ADA Standards - 2010 ADA Standards for Accessible Design; 2010.
- C. ASTM A276/A276M - Standard Specification for Stainless Steel Bars and Shapes; 2025.
- D. ASTM A554 - Standard Specification for Welded Stainless Steel Mechanical Tubing; 2021.
- E. ASTM A666/A666M - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar; 2024.
- F. ASTM B26/B26M - Standard Specification for Aluminum-Alloy Sand Castings; 2025.
- G. ASTM B85/B85M - Standard Specification for Aluminum-Alloy Die Castings; 2025.
- H. ASTM B209/B209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2021a.
- I. ASTM B211/B211M - Standard Specification for Aluminum and Aluminum-Alloy Rolled or Cold Finished Bar, Rod, and Wire; 2023.
- J. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2021.
- K. ASTM B221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric); 2021.
- L. ASTM E985 - Standard Specification for Permanent Metal Railing Systems and Rails for Buildings; 2024.
- M. AWS D1.2/D1.2M - Structural Welding Code - Aluminum; 2014, with Errata (2020).
- N. NAAMM AMP 500-06 - Metal Finishes Manual; 2006.

1.04 SUBMITTALS

- A. Product Data: Submit manufacturer's product data, including description of materials, components, finishes, fabrication details, glass, anchors, and accessories.
- B. Shop Drawings: Indicate railing system elevations and sections, details of profile, dimensions, sizes, connection attachments, anchorage, size and type of fasteners, and accessories. Indicate anchor and joint locations, brazed connections, transitions, and terminations.
- C. Samples: Submit one of each item below for each type and condition shown.
 - 1. Railing: 12-inch (305 mm) long section of each railing member, including top rails and posts; show color, finish, and connection details.
- D. Delegated Design Documents: Drawings and calculations sealed by Designer.
- E. Test Reports: Submit test reports from independent testing agency showing compliance with specified design and performance requirements.
- F. Manufacturer's Instructions: Indicate installation.

- G. Designer's qualification statement.
- H. Specimen warranty.
- I. Executed warranty.

1.05 QUALITY ASSURANCE

- A. Structural Designer Qualifications: Professional Structural Engineer experienced in design of this work and licensed in the State in which the Project is located or personnel under direct supervision of engineer.
- B. Installer Qualifications:
 - 1. Installer Qualifications: Company specializing in performing work of type specified and with at least three years of documented experience.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in factory-provided protective coverings and packaging.
- B. Protect materials against damage during transit, delivery, storage, and installation at site.
- C. Inspect materials upon delivery for damage. Replace damaged items.
- D. Prior to installation, store materials and components under cover in dry location.

1.07 FIELD CONDITIONS

- A. Ambient Conditions:
 - 1. Do not install railings until project is enclosed and ambient temperature of space is minimum 65 degrees F (18.3 degrees C) and maximum 95 degrees F (35 degrees C).
 - 2. Maintain ambient temperature of space at minimum 65 degrees F (18.3 degrees C) and maximum 95 degrees F (35 degrees C) for 24 hours before, during, and after railing installation.

1.08 WARRANTY

- A. Manufacturer's Warranty: Manufacturer's standard 1-year warranty against defects in materials, fabrication, finishes, and installation commencing on mm-dd-yyyy; complete forms in Owner's name and register with manufacturer.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Decorative Metal Railings:
 - 1. Basis of Design: Hollaender Interna-Rail System.
 - 2. ATR Technologies Inc: www.atr-technologies.com/#sle.
 - 3. HDI Railing Systems: www.handrail-design.com/#sle.
 - 4. Livers Bronze, LLC: www.liversbronze.com/#sle.
 - 5. Viva Railings, LLC: www.vivarailings.com/#sle.

2.02 RAILING SYSTEMS

- A. General: Factory- or shop-fabricated to suit project conditions, for proper connection to building structure, and in largest sizes practical for delivery to site.
- B. Performance Requirements:
 - 1. Comply with ASTM E985.
 - 2. Comply with ADA Standards.
 - 3. Lateral Force: 75 lb (333 N) minimum, when tested in accordance with ASTM E935.
 - 4. Distributed Load: 50 lbf/ft (8756 N/m) minimum, applied vertically and horizontally at top of handrail, when tested in accordance with ASTM E935.
 - 5. Concentrated Loads: 200 lb (888 N) minimum, applied to handrail horizontally and vertically, in accordance with ASTM E935.

- C. Assembly: Use slip-on, nonweld mechanical fittings, flanges, escutcheons, and wall brackets to join lengths, seal open ends, and conceal exposed mounting bolts and nuts.
- D. Joints: Machined smooth with hairline seams; tightly fitted and secured.
- E. Metal Railing: Engineered, post-supported railing system with metal infill.
 - 1. Configuration: Guardrail with separate handrail.
 - 2. Top Rail: 1-1/2-inch IPS / 1.9-inch OD (38.1 mm IPS / 48.26 mm OD) diameter aluminum pipe or tube, Schedule 40.
 - 3. Decorative Flanges for Embedded Posts: Circular, collared cover plate without screw holes.
 - 4. Wall-Mounted Components: Support railing with 1-1/2-inch (38 mm) clearance from wall using the following:
 - a. Wall Return without Support: Terminates 1/4 inch (6 mm) from side wall.
 - 5. Handrail Brackets: Same metal as railing.
 - 6. Fasteners: Concealed.
 - 7. Infill at Picket Railings: Vertical pickets.
 - a. Horizontal Spacing: Maximum 4 inches (100 mm) on center.
 - b. Material: Aluminum tube.
 - c. Shape: Round.
- F. Wall-Mounted Handrail - minimum 1-1/4" dia to match adjacent free standing railing. Provide this at all locations where decorative railing occurs:
 - 1. 1-1/4-inch IPS / 1.66-inch OD (31.8 mm IPS / 42.16 mm OD) aluminum, clear anodized finish.
 - 2. Handrail Brackets: Manufacturer's standard metal to match railing brackets.
 - a. Mounting: Wall.
 - b. Finish: Clear anodized.

2.03 MATERIALS

- A. Aluminum Components: ASTM B221 or ASTM B221M.
 - 1. Tubes: Schedule 40 pipe.
 - 2. Extruded Aluminum: ASTM B221 or ASTM B221M, 6063 alloy, T6 temper.
 - 3. Sheet Aluminum: ASTM B209/B209M, 5052 alloy, H32 or H22 temper.
 - 4. Aluminum-Alloy Bars: ASTM B211/B211M, 6061 alloy, T6 temper.
 - 5. Aluminum-Alloy Sand Castings: ASTM B26/B26M, _____ alloy, _____ temper.
 - 6. Aluminum-Alloy Die Castings: ASTM B85/B85M, _____ alloy, _____ temper.
 - 7. Sheet Thickness: 0.125 inch (3 mm), minimum.
 - 8. Bolts, Nuts, and Washers: Stainless steel.
 - 9. Welding Materials: AWS D1.2/D1.2M.
- B. Stainless Steel Components: ASTM A666/A666M, Type 304.
 - 1. Stainless Steel Tubing: ASTM A554, Type 304, 16-gauge, 0.0625-inch (1.59 mm) minimum metal thickness, 1-1/2-inch (38 mm) diameter.
 - 2. Stainless Steel Bars, Shapes and Moldings: ASTM A276/A276M, Type 304.

2.04 FABRICATION

- A. Welded and Brazed Joints: Make visible joints butt tight, flush, and hairline; use methods that avoid discoloration and damage of finish; grind smooth, polish, and restore to required finish.
 - 1. Ease exposed edges to small uniform radius.
 - 2. Welded Joints:

2.05 FINISHES

- A. General: Comply with NAAMM AMP 500-06.
 - 1. Complete mechanical finishes before fabrication. After fabrication, finish joints, bends, abrasions, and surface blemishes to match sheet.

2. Protect mechanical finishes on exposed surfaces from damage.
 3. Apply organic and anodic finishes to formed metal after fabrication.
 4. Appearance: Limit variations in appearance of adjacent pieces to one-half of range represented in approved samples. Noticeable variations in same piece are not acceptable. Install components within range of approved samples to minimize contrast.
- B. Aluminum Finishes:
1. Class I Clear Anodized Finish: AAMA 611 AA-M12C22A41, clear anodic coating not less than 0.7 mil, 0.007 inch (0.018 mm) thick.
- C. Stainless Steel Finishes:
1. Remove tool marks, die marks, and stretch lines before finishing.
 2. Directional Satin: No.4.

2.06 ACCESSORIES

- A. Nonweld Mechanical Fittings for Stainless Steel Railings: Slip-on, galvanized malleable iron castings, for Schedule 40 pipe, with flush setscrews for tightening by standard hex wrench, no bolts or screw fasteners.
- B. Nonweld Mechanical Fittings for Aluminum Railings: In-line aluminum fittings, with flush setscrews for tightening by standard hex wrench, no bolts or screw fasteners.
- C. Welding Fittings: Factory- or shop-welded from matching pipe or tube; joints and seams ground smooth.
- D. Anchors and Fasteners: Provide anchors, fasteners, and other attachment devices required to attach to structure.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that substrate and site conditions are acceptable and ready to receive work.
- B. Verify field dimensions of locations and areas to receive work.
- C. Notify Architect immediately of conditions that would prevent satisfactory installation.
- D. Do not proceed with work until detrimental conditions are corrected.

3.02 PREPARATION

- A. Review installation drawings before beginning installation. Coordinate diagrams, templates, instructions, and directions for installation of anchorages and fasteners.
- B. Clean surfaces to receive railings. Remove materials and substances detrimental to installation.

3.03 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Install components plumb and level, accurately fitted, free from distortion or defects, and with tight joints, except where necessary for expansion.
- C. Anchor securely to structure.
- D. Conceal anchor bolts and screws whenever possible. Where not concealed, use flush countersunk fastenings.
- E. Isolate dissimilar materials with bituminous coating, bushings, grommets, or washers to prevent electrolytic corrosion.

3.04 TOLERANCES

- A. Maximum Variation From Plumb: 1/4 inch (6 mm) per floor level, noncumulative.
- B. Maximum Offset From True Alignment: 1/4 inch (6 mm).
- C. Maximum Out-of-Position: 1/4 inch (6 mm).

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3.05 CLEANING

- A. Remove protective film from exposed metal surfaces.
- B. Metal: Clean exposed metal finishes with potable water and mild detergent in accordance with manufacturer recommendations; do not use abrasive materials or chemicals, detergents, or other substances that may damage material or finish.

3.06 PROTECTION

- A. Protect installed components and finishes from damage after installation.
- B. Repair damage to exposed, making finishes indistinguishable from undamaged areas.
- C. Replace finishes and components that have irreparable damage. Ensure damaged areas are indistinguishable from undamaged finishes and surfaces.

END OF SECTION

SECTION 075419

POLYVINYLCHLORIDE (PVC) ROOFING MEMBRANE

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. PVC Roofing membrane.
- B. Glass faced roof board.
- C. Polyisocyanurate insulation (tapered), loosely laid.
- D. Polyisocyanurate insulation (flat), loosely laid.
- E. Slip sheet, loosely laid.
- F. Vapor barrier.
- G. Prefabricated flashings, corners, parapets, stacks, vents, and related details.
- H. Fasteners, adhesives, and other accessories required for a complete roofing installation.
- I. Traffic Protection.

1.2 REFERENCES

- A. NRCA - The NRCA Roofing and Waterproofing Manual.
- B. ASCE 7 - Minimum Design Loads For Buildings And Other Structures.
- C. UL - Roofing Materials and Systems Directory, Roofing Systems (TGFU.R10128).
- D. ASTM C 1289 - Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board.
- E. ASTM D 751 - Standard Test Methods for Coated Fabrics.
- F. ASTM D 4434 - Standard Specification for Poly(Vinyl Chloride) Sheet Roofing.
- G. ASTM E 108 - Standard Test Methods for Fire Tests of Roof Coverings.
- H. ASTM E 119 - Standard Test Methods for Fire Tests of Building Construction and Materials.

1.3 SYSTEM DESCRIPTION

- A. General: Provide installed roofing membrane and base flashings that remain watertight; do not permit the passage of water; and resist specified uplift pressures, thermally induced movement, and exposure to weather without failure.
- B. The roofing membrane shall be fastened using an induction welding system. The system shall be Centrix, Rhinobond, or Duro-Bond or as approved by the manufacture to provide specified warranty.
- C. Material Compatibility: Provide roofing materials that are compatible with one another under

conditions of service and application required, as demonstrated by roofing membrane manufacturer based on testing and field experience.

D. Physical Properties:

1. Roof product must meet the requirements of Type III PVC sheet roofing as defined by ASTM D 4434 and must meet or exceed the following physical properties.
2. Thickness: 60 mil, nominal, in accordance with ASTM D 751.
3. Thickness Over Scrim: ≥ 31 mil in accordance with ASTM D 751.
4. Breaking Strengths: ≥ 437 lbf. (MD) and ≥ 304 lbf. (XMD) in accordance with ASTM D 751, Grab Method.
5. Elongation at Break: $\geq 29\%$ (MD) and $\geq 30\%$ (XMD) in accordance with ASTM D 751, Grab Method.
6. Heat Aging in accordance with ASTM D 3045: 176 °F for 56 days. No sign of cracking, chipping or crazing. (In accordance with ASTM D 4434).
7. Factory Seam Strength: ≥ 463 lbf. in accordance with ASTM D 751, Grab Method.
8. Tearing Strength: ≥ 78 lbf. (MD) and ≥ 190 lbf. (XMD) in accordance with ASTM D 751, Procedure B.
9. Low Temperature Bend (Flexibility): Pass at -40 °F in accordance with ASTM D 2136.
10. Accelerated Weathering: No cracking, checking, crazing, erosion or chalking after 5,000 hours in accordance with ASTM G 154.
11. Linear Dimensional Change: $< 0.30\%$ (MD) and 0.10% (XMD) in accordance with ASTM D 1204 at 176 ± 2 °F for 6 hours.
12. Water Absorption: $< 2.29\%$ in accordance with ASTM D 570 at 158 °F for 166 hours.
13. Static Puncture Resistance: ≥ 33 lbs. in accordance with ASTM D 5602.
14. Dynamic Puncture Resistance: ≥ 14.7 ft-lbf. in accordance with ASTM D 5635.
15. Roof Assembly Description:
 - a. System consists of 10 mil vapor barrier installed over $\frac{1}{2}$ " gypsum board thermal barrier, two layers of 2.5" polyisocyanurate, tapered polyisocyanurate, $\frac{1}{4}$ " cover board, 60 mil PVC membrane.

E. Cool Roof Rating Council (CRRC):

1. Membrane must be listed on CRRC website.
 - a. Initial Solar Reflectance: $\geq 85\%$
 - b. Initial Solar Reflective Index (SRI): ≥ 108

F. Insulation

1. Provide overall thermal resistance for roofing system as follows:
 - a. Minimum R-value: 28: Two layers 2.5" thick polyisocyanurate.
2. Tapered Insulation Slope: 1/4 inch per foot.

3. Configuration as indicated on the Drawings.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Data sheets on each product to be used, including:
 1. Preparation instructions and recommendations.
 2. Storage and handling requirements and recommendations.
 3. Installation methods.
 4. Maintenance requirements.
- C. Shop Drawings: Indicate insulation pattern, overall membrane layout, field seam locations, joint or termination detail conditions, and location of fasteners.
- D. Verification Samples: For each product specified, two samples, representing actual product, color, and finish.
 1. 4 inch by 6 inch sample of roofing membrane, of color specified.
 2. 4 inch by 6 inch sample of walkway pad.
 3. Termination bar, fascia bar with cover, drip edge and gravel stop if to be used.
 4. Each fastener type to be used for installing membrane, insulation/recover board, termination bar and edge details.
- E. Installer Certification: Certification from the roofing system manufacturer that Installer is approved, authorized, or licensed by manufacturer to install roofing system.
- F. Manufacturer's warranties.

1.5 QUALITY ASSURANCE

- A. Perform work in accordance with manufacturer's installation instructions.
- B. Manufacturer Qualifications: A manufacturer specializing in the production of PVC membranes systems and utilizing a Quality Control Manual during the production of the membrane roofing system that has been approved by and is inspected by Underwriters Laboratories.
- C. Installer Qualifications: Company specializing in installation of roofing systems similar to those specified in this project and approved by the roofing system manufacturer.
- D. Source Limitations: Obtain components for membrane roofing system from roofing membrane manufacturer.
- E. There shall be no deviations from the roof membrane manufacturer's specifications or the approved shop drawings without the prior written approval of the manufacturer.

1.6 REGULATORY REQUIREMENTS

- A. Conform to applicable code for roof assembly wind uplift and fire hazard requirements.
- B. Fire Exposure: Provide membrane roofing materials with the following fire-test-response characteristics. Materials shall be identified with appropriate markings of applicable testing and inspecting agency.
 - 1. Exterior Fire-Test Exposure:
 - a. Class A; ASTM E 108, for application and roof slopes indicated.
 - 2. Fire-Resistance Ratings: Comply with ASTM E 119 for fire-resistance-rated roof assemblies of which roofing system is a part.
 - 3. Conform to applicable code for roof assembly fire hazard requirements.
- C. Wind Uplift:
 - 1. Roofing System Design: Provide a roofing system designed to resist uplift pressures calculated according to the current edition of the ASCE-7 Specification *Minimum Design Loads for Buildings And Other Structures*.

1.7 PRE-INSTALLATION MEETING

- A. Convene meeting not less than one week before starting work of this section.
- B. Review methods and procedures related to roof deck construction and roofing system including, but not limited to, the following.
 - 1. Meet with Owner, Architect, Owner's insurer if applicable, testing and inspecting agency representative, roofing installer, roofing system manufacturer's representative, deck installer, and installers whose work interfaces with or affects roofing including installers of roof accessories and roof-mounted equipment.
 - 2. Review and finalize construction schedule and verify availability of materials, installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - 3. Examine deck substrate conditions and finishes for compliance with requirements, including flatness and fastening.
 - 4. Review structural loading limitations of roof deck during and after roofing.
 - 5. Review base flashings, special roofing details, roof drainage, roof penetrations, equipment curbs, and condition of other construction that will affect roofing system.
 - 6. Review governing regulations and requirements for insurance and certificates if applicable.
 - 7. Review temporary protection requirements for roofing system during and after installation.
 - 8. Review roof observation and repair procedures after roofing installation.

1.8 DELIVERY, STORAGE AND HANDLING

- A. Deliver roofing materials to Project site in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, date of manufacture, and directions for storing and mixing with other components.

- B. Store liquid materials in their original undamaged containers in a clean, dry, protected location and within the temperature range required by roofing system manufacturer. Protect stored liquid material from direct sunlight.
- C. Protect roof insulation materials from physical damage and from deterioration by sunlight, moisture, soiling, and other sources. Store in a dry location. Comply with insulation manufacturer's written instructions for handling, storing, and protecting during installation.
- D. Store roof materials and place equipment in a manner to avoid permanent deflection of deck.
- E. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.9 WARRANTY

- A. Contractor's Warranty: The contractor shall warrant the roof application with respect to workmanship and proper application for two (2) years from the effective date of the warranty issued by the manufacturer.
- B. Manufacturer's Warranty: Must be no-dollar limit type and provide for completion of repairs, replacement of membrane or total replacement of the roofing system at the then-current material and labor prices throughout the life of the warranty. In addition the warranty must meet the following criteria:
 - 1. Warranty Period: 20 years from date issued by the manufacturer.
 - 2. Must provide positive drainage.
 - 3. No exclusion for damage caused by biological growth.
 - 4. Issued direct from and serviced by the roof membrane manufacturer.
 - 5. Transferable for the full term of the warranty.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Basis of Design Manufacturer: Duro-Last Roofing, Inc., which is located at: 525 Morley Drive, Saginaw, MI 48601. Telephone: 800-248-0280. – Product: Duro-Tuff Membrane 60 mil.
- B. All roofing system components to be provided or approved by same roofing membrane manufacturer for complete system warranty.
- C. Alternate manufacturers:
 - a. Sika Sarnafil
 - b. Fibertite Roofing
 - c. Firestone Roofing Products (Conformed, August 19, 2022: Addendum 01)

2.2 ROOFING SYSTEM COMPONENTS

- A. Roofing Membrane: 60 mil PVC membrane conforming to ASTM D 4434, type III, fabric-reinforced, PVC, NSF/ANSI 347 Gold or Platinum Certification, and a product-specific third-party verified Environmental Product Declaration. Membrane properties as follows:

1. Thickness:
 - a. 60 mil, nominal.
2. Exposed Face Color:
 - a. White.
3. Minimum recycle content 7% post-industrial and 0% post-consumer.
4. Recycled at end of life into resilient flooring or concrete expansion joints.
- B. Accessory Materials: Provide accessory materials supplied by or approved for use by membrane manufacturer.
 1. Sheet Flashing: Manufacturer's standard reinforced PVC sheet flashing.
 2. Factory Prefabricated Flashings: manufactured using Manufacturer's standard reinforced PVC membrane.
 - a. Stack Flashings.
 - b. Curb Flashings.
 - c. Inside and Outside Corners.
 - d. Vinyl Coated Metal Scupper Inserts.
 - e. Vinyl Coated Pitch Pans.
 3. Sealants and Adhesives: Compatible with roofing system and supplied by membrane manufacturer
 4. Slip Sheet: Compatible with roofing system and supplied by roofing manufacturer.
 5. Fasteners and Plates: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FMG 4470, designed for fastening membrane and insulation to substrate.
 6. Termination and Edge Details:
 - a. Termination Bar.
 - b. Universal 2-Piece Compression Metal System.
 - c. Vinyl Coated Metal Drip Edge.
 - d. Snap Coping.
 7. Vinyl Coated Metal: 24 gauge, hot-dipped galvanized, grade 90 metal with a minimum of 17 mil of PVC membrane laminated to one side.
- C. Vapor barrier:
 1. Dura-Skrim 10 mil R10CCF or equal.
- D. Walkways:
 1. Provide non-skid, maintenance-free walkway pads in areas of heavy foot traffic and around mechanical equipment.

2.3 ROOF INSULATION

A. General:

1. Provide preformed roof insulation boards that comply with requirements and referenced standards, as selected from manufacturer's standard sizes.
2. Provide preformed saddles, crickets, and other insulation shapes where indicated for sloping to drain. Fabricate to slopes indicated.

B. Polyisocyanurate Board Insulation: Complying with ASTM C 1289, Type II, felt or glass-fiber mat facer on both major surfaces. Material as supplied by membrane manufacturer.

2.4 ROOF INSULATION ACCESSORIES

A. General: Provide roof insulation accessories approved by the roof membrane manufacturer and as recommended by insulation manufacturer for the intended use.

B. Insulation Cover Board:

1. Glass-mat-faced, water-resistant gypsum substrate conforming to ASTM C 1177/C 1177M, DensDeck® Roof Board as manufactured by Georgia-Pacific Corporation.
 - a. ¼ inch thick.

C. Gypsum Board Thermal Barrier (installed directly over metal deck):

2. Glass-mat-faced, water-resistant gypsum substrate conforming to ASTM C 1177/C 1177M, DensDeck® Roof Board as manufactured by Georgia-Pacific Corporation.
 - b. 1/2 inch thick.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that the surfaces and site conditions are ready to receive work.
- B. Verify that the deck is supported and secured.
- C. Verify that the deck is clean and smooth, free of depressions, waves, or projections, and properly sloped to drains, valleys, eaves, scuppers or gutters.
- D. Verify that the deck surfaces are dry and free of standing water, ice or snow.
- E. Verify that all roof openings or penetrations through the roof are solidly set.
- F. If substrate preparation is the responsibility of another contractor, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- C. Surfaces shall be clean, smooth, free of fins, sharp edges, loose and foreign material, oil, grease, and bitumen.

3.3 INSTALLATION

- A. Install insulation in accordance with the roof manufacturer's requirements.
- B. Separation Slip Sheet:
 - 1. Install in accordance with the roof manufacturer's requirements.
- C. Insulation:
 - 1. Install insulation in accordance with the roof manufacturer's requirements.
 - 2. Insulation shall be adequately supported to sustain normal foot traffic without damage.
 - 3. Where field trimmed, insulation shall be fitted tightly around roof protrusions with no gaps greater than $\frac{1}{4}$ inch.
 - 4. Tapered insulation boards shall be installed in accordance with the insulation manufacturer's shop drawings.
 - 5. No more insulation shall be applied than can be covered with the roof membrane by the end of the day or the onset of inclement weather.
 - 6. If more than one layer of insulation is used, all joints between subsequent layers shall be offset by at least 6 inches.
 - 7. Loosely lay (flat) insulation boards in parallel courses with end joints staggered 50% and adjacent boards butted together with no gaps greater than $\frac{1}{4}$ inch.
 - 8. Loosely lay (tapered) insulation boards in parallel courses with end joints staggered 50% and adjacent boards butted together with no gaps greater than $\frac{1}{4}$ inch.
- D. Insulation Cover Board: DensDeck® Roof Board.
- E. Roof Membrane: 60 mil, nominal.
- F. Seaming:
 - 1. Weld overlapping sheets together using hot air. Minimum weld width is 1-1/2 inches.
 - 2. Check field welded seams for continuity and integrity and repair all imperfections by the end of each work day.
- G. Membrane Termination/Securement: All membrane terminations shall be completed in accordance with the membrane manufacturer's requirements.
 - 1. Provide securement at all membrane terminations at the perimeter of each roof level, roof section, curb flashing, skylight, expansion joint, interior wall, penthouse, and other similar condition.
 - 2. Provide securement at any angle change where the slope or combined slopes exceeds two inches in one horizontal foot.
- H. Flashings: Complete all flashings and terminations as indicated on the drawings and in accordance with the membrane manufacturer's requirements.
 - 1. Provide securement at all membrane terminations at the perimeter of each roof level, roof section, curb flashing, skylight, expansion joint, interior wall, penthouse, and other similar condition.
 - a. Do not apply flashing over existing thru-wall flashings or weep holes.

- b. Secure flashing on a vertical surface before the seam between the flashing and the main roof sheet is completed.
 - c. Extend flashing membrane a minimum of 6 inches (152 mm) onto the main roof sheet beyond the mechanical securement.
 - d. Use care to ensure that the flashing does not bridge locations where there is a change in direction (e.g. where the parapet meets the roof deck).
- 2. Penetrations:
 - a. Flash all pipes, supports, soil stacks, cold vents, and other penetrations passing through the roofing membrane as indicated on the Drawings and in accordance with the membrane manufacturer's requirements.
 - b. Utilize custom prefabricated flashings supplied by the membrane manufacturer.
 - c. Existing Flashings: Remove when necessary to allow new flashing to terminate directly to the penetration.
- 3. Pipe Clusters and Unusual Shapes:
 - a. Clusters of pipes or other penetrations which cannot be sealed with prefabricated membrane flashings shall be sealed by surrounding them with a prefabricated vinyl-coated metal pitch pan and sealant supplied by the membrane manufacturer.
 - b. Vinyl-coated metal pitch pans shall be installed, flashed and filled with sealant in accordance with the membrane manufacturer's requirements.
 - c. Pitch pans shall not be used where prefabricated or field fabricated flashings are possible.
- I. Roof Drains:
 - 1. Coordinate installation of roof drains and vents specified in Section 15146 - Plumbing Specialties.
 - 2. Remove existing flashing and asphalt at existing drains in preparation for sealant and membrane.
 - 3. Provide a smooth clean surface on the mating surface between the clamping ring and the drain base.
- J. Edge Details:
 - 1. Provide edge details as indicated on the Drawings. Install in accordance with the membrane manufacturer's requirements.
 - 2. Join individual sections in accordance with the membrane manufacturer's requirements.
 - 3. Coordinate installation of metal flashing and counter flashing specified in Section 07620.
 - 4. Manufactured Roof Specialties: Coordinate installation of copings, counter flashing systems, gutters, downspouts, and roof expansion assemblies specified in Section 07710.
- K. Walkways:
 - 1. Install walkways in accordance with the membrane manufacturer's requirements.
 - 2. Provide walkways where indicated on the Drawings.

3. Install walkway pads at roof hatches, access doors, rooftop ladders and all other traffic concentration points regardless of traffic frequency. Provided in areas receiving regular traffic to service rooftop units or where a passageway over the surface is required.

4. Do not install walkways over flashings or field seams until manufacturer's warranty inspection has been completed.

L. Water cut-offs:

1. Provide water cut-offs on a daily basis at the completion of work and at the onset of inclement weather.

2. Provide water cut-offs to ensure that water does not flow beneath the completed sections of the new roofing system.

3. Remove water cut-offs prior to the resumption of work.

4. The integrity of the water cut-off is the sole responsibility of the roofing contractor.

5. Any membrane contaminated by the cut-off material shall be cleaned or removed.

3.4 FIELD QUALITY CONTROL

A. The membrane manufacturer's representative shall provide a comprehensive final inspection after completion of the roof system. All application errors shall be addressed and final punch list completed.

3.5 PROTECTION

A. Protect installed roofing products from construction operations until completion of project.

B. Where traffic is anticipated over completed roofing membrane, protect from damage using durable materials that are compatible with membrane.

C. Repair or replace damaged products after work is completed.

END OF SECTION

SECTION 101900

CUBICLE CURTAINS AND TRACKS

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Medical treatment curtains, tracks, and other hardware.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Curtains: Flameproof nylon reinforced anti-bacterial vinyl material with nickel-plated brass grommets.
- B. Curtain Tracks: Surface mounted extruded anodized aluminum box channel type.
- C. Curtain Carriers: One piece nylon, breakaway.

2.2 MANUFACTURERS

- A. Manufacturers
 - 1. Arnco, St. Louis, MO 63122
 - 2. General Cubicle Company, Telford, PA 18969
 - 3. InPro Corporation, Muskego, WI 53150
 - 4. Imperial Fastener Company, Pompano Beach, FL 33069

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install tracks after finish painting and ceiling finishing operations are complete.
- B. Install track level and hangers plumb and securely anchor to the ceiling to form a rigid installation.
- C. Anchor surface mounted curtain tracks directly to exposed grid of lay-in acoustical tile ceilings with suitable fasteners, spaced approximately 600 mm (24 inches) on center.
- D. Anchor surface mounted curtain tracks to concrete, plaster and gypsum board ceilings with a minimum of 3 mm(1/8") diameter fastenings or concealed clips spaced not more than 900 mm (3') on center.
- E. Install suspended track seven feet, three inches above the finished floor, with hangers spaced no more than four feet on center. At ceiling line, provide flange fittings secured to hangers with set screws. Secure track to walls with flanged fittings and to hangers with special fittings.

- F. Securely fasten end stop caps to prevent their being forced out by the striking weight of carriers.
- G. Remove damaged or defective components and replace with new components or repair to the original condition.
- H. Acceptance
 - 1. Track shall be installed neat, rigid, plumb, level and true, and securely anchored to the overhead construction.
 - 2. Carrier units shall operate smoothly and easily over the full range of travel.

END OF SECTION 101900

SECTION 116800 - PLAYGROUND EQUIPMENT AND STRUCTURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Special Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Play equipment must be selected from the approved manufacturers identified in these specifications.
- B. Section Includes:
 - 1. Freestanding playground equipment and structures.
 - 2. Composite playground equipment and structures.
- C. Related Sections:
 - 1. Division 033000 Section "Cast-in-Place Concrete" for concrete footings.
 - 2. Section 321816 "Playground Protective Surfacing" for protective surfacing under and around playground equipment.

1.3 DEFINITION

- A. ASTM: American Society for Testing and Materials.
- B. Fall Height: According to ASTM F 1487, "the vertical distance between a designated play surface and the protective surfacing beneath it."
- C. IPEMA: International Play Equipment Manufacturers Association.
- D. Use Zone: According to ASTM F 1487, "the area beneath and immediately adjacent to a play structure that is designated for unrestricted circulation around the equipment and on whose surface it is predicted that a user would land when falling from or exiting the equipment."
- E. CPSC: Consumer Product Safety Council.
- F. ADA: Americans with Disabilities Act.

1.4 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: Show fabrication and installation details for new playground equipment and structures.

1. Extent of surface systems and use zones for equipment.
2. Critical heights for playground surface, or fall heights for equipment.
3. Recommended child ages for equipment.
4. Configured equipment child capacity.
5. ADA breakdown listing by type and quantity per type.

C. Samples for Verification: For each type of exposed finish required, prepared on Samples of size indicated below.

1. Posts and Rails: Not less than 6 inches long.
2. Platforms: Not less than 6 inches square.
3. Molded Plastic: Not less than 3 inches square.
4. Panels: Not less than 6 inches square.

D. Product Certificates: For each type of playground equipment, signed by product manufacturer.

E. Installer Certificates: Signed by manufacturers certifying that installers comply with requirements.

F. Material Certificates: For the following items, signed by manufacturers:

1. Shop finishes.
2. Recycled plastic.

G. Product Test Reports: Based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified testing agency, for playground equipment.

H. Maintenance Data: For playground equipment and finishes to include in maintenance manuals.

I. Warranty: Special warranty specified in this Section.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: An employer of workers trained and approved by manufacturer.

B. Manufacturer Qualifications.

1. Select a manufacturer from the list of approved manufacturers below.
2. A firm whose playground equipment components have been certified by IPEMA's third-party product certification service.
 - a. Provide playground equipment and play structure components bearing the IPEMA Certification Seal.

C. Safety Standards: Provide playground equipment complying with or exceeding requirements in the following:

1. ASTM F 1487.
2. CPSC No. 325.

D. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Management and Coordination."

1.6 WARRANTY

- A. Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of playground equipment that fail in materials or workmanship within specified warranty period.
1. Warranty Period: Five years from date of Substantial Completion.

PART 2 - GENERAL

2.1 MANUFACTURERS

- A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:
1. Acceptable Manufacturers:
 - a. Landscape Structures Inc.: 601 7th Street South, Delano, Minnesota 55328-0198.
 - b. BCI Burke: 665 North Peters Avenue, Fond du Lac, WI 54937.
 - c. GameTime: 150 Gametime Drive, Fort Payne, Alabama 35967.
 - d. Playworld Systems, Inc.: 1000 Buffalo Road, Lewisburg, Pennsylvania 17837-9795.
 2. Basis-of-Design Product: The design for each configured structure and/or piece of playground equipment is based on the product named for the system provided by Landscape Structures. Additionally, this specification will also serve to define the minimum product requirements to be met or exceeded.
 - a. Provide the specified basis-of-design named product or comparable products by one of the other listed acceptable manufacturers. Comparable product is subject to compliance with the most current industry standards and will meet or exceed requirements set out in the construction bid documents.
 - b. Contractor is responsible for verifying that accepted equipment can be assembled and fit into the spaces provided.

2.2 PLAYGROUND EQUIPMENT FABRICATION

- A. Assemble items in the shop to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation. Use connections that maintain structural value of joined pieces.
- B. Equipment shall be free of points, sharp edges and protrusions that may cut or puncture; or that may snag clothing or body parts.
- C. Equipment shall be free of openings or angles that may entrap body.
- D. Provide necessary rebates, lugs, and brackets to assemble units and to attach to other work. Cut, reinforce, drill, and tap to receive finish hardware, screws, and similar items, unless otherwise indicated.

1. Equipment shall have vandal-proof connectors that cannot be loosened or unfastened without tools.
 - E. Play Surfaces: Provide manufacturer's standard elevated drainable decks, platforms, landings, walkways, ramps, and similar transitional play surfaces, designed to withstand loads; fabricated from perforated or expanded metal made into floor units with slip-resistant climbing and walking surfaces. Fabricate units in manufacturer's standard modular sizes and shapes to form assembled play surfaces indicated.
 - F. Equipment shall have components that drain freely and do not collect standing water.
 - G. Elevated Play Surfaces: Guardrails or protective barriers completely surround elevated play surface except for access openings, if play-surface heights above protective surfacing exceed the following for use by age group indicated.
 1. Elevated surface greater than 20 inches intended for use by children ages 2 through 5.
 2. Elevated surface greater than 30 inches intended for use by children ages 5 through 12.
 - H. Stepped Play Surfaces: Provide manufacturer's standard infill between stepped platforms according to referenced standards and where indicated on Drawings.
 - I. Protective Barriers and Guardrails: Fabricate according to ASTM F 1487 and as follows:
 1. Welded metal pipe or tubing with vertical bars.
 2. Steel sheet with openings for vision and ventilation.
 3. Welded metal-pipe or -tubing frame with woven wire mesh infill panels.
 4. Opaque plastic panels with openings.
 - J. Handrails: Welded metal pipe or tubing, OD between 0.95 and 1.55 inches. Provide handrails at height for use by age group indicated below.
 1. Ages: Between 2 and 5 and 5 and 12 years.
 2. Height of Top Surface: 29 inches intended for use by children aged 2 through 5 and 38 inches intended for use by children aged 5 through 12.
 3. Close exposed ends of handrails with returns with clearance of 1/4 inch or less.
- 2.3 FREESTANDING PLAYGROUND COMPONENTS
- A. Landscape Structures: Provide equipment as identified on plans.
- 2.4 SIGNAGE
- A. Furnish and install age appropriate signage per the Drawings.
- 2.5 FINISHES, GENERAL
- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

- B. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - GENERAL

3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for site clearing, earthwork, site surface and subgrade drainage, and other conditions affecting performance.
1. Do not begin installation before final grading required for placing protective surfacing is completed, unless otherwise permitted by Landscape Architect.
 2. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Verify locations of playground perimeter and pathways. Verify that playground layout and equipment locations comply with requirements for each type and component of equipment.
- B. Contractor shall provide and erect a temporary construction fence around any and all construction and material staging areas. The fence, specified elsewhere, shall be closed and locked whenever the Contractor is not on site. Fences shall be maintained daily.
1. The contractor shall additionally provide and install signage reading "Keep Out – Playground Under Construction" on temporary fencing as required (minimum of 3 per area and 1 on the lockable gate).

3.3 INSTALLATION, GENERAL

- A. General:
1. Install all equipment and structures per the manufacturer's written installation instructions, methods of installation, details and specifications, unless more stringent requirements are indicated.
 - a. Installations shall comply with CPSC and ASTM guidelines.
 - b. Anchor play equipment securely, positioned at locations and elevations indicated.
 - c. Maintain safety zones indicated on the plans and as required by IPEMA and CPSC requirements. Violation of safety zones will be cause for rejection of the work.
 2. Maximum Equipment Height: Coordinate installed heights of equipment and components with finished elevations of protective surfacing. Set equipment so fall heights and elevation requirements for age group use and accessibility are within required limits. Verify that playground equipment elevations comply with requirements for each type and component of equipment.

- B. Post and Footing Excavation: Excavate holes for posts and footings as required in firm, undisturbed or compacted subgrade soil.
 - 1. Set equipment posts per manufacturer's recommendations with concrete footing. Protect portion of posts above footing from concrete splatter. Verify that posts are set plumb or at the correct angle, alignment, height, and spacing.
 - a. Place concrete around posts and vibrate or tamp for consolidation. Hold posts in position during placement and finishing operations until concrete is sufficiently cured.
 - 2. Embedded Items: Use setting drawings and manufacturer's written instructions to ensure correct installation of anchorages for equipment.
 - 3. Concrete Footings: Smooth top, and shape to shed water.

3.4 FIELD QUALITY CONTROL

- A. Arrange for an independent certified playground inspector to inspect playground, playground equipment, and components during installation and at final completion and to certify compliance with the following:
 - 1. ASTM F 1487.
 - 2. CPSC No. 325.
- B. Notify Landscape Architect 48 hours in advance of date and time of final inspection.
- C. Submit a written inspection report, certifying compliance, or indicating corrections in order to obtain compliance.

3.5 CLEANING

- A. After completing installation, inspect components. Remove spots, dirt, and debris. Repair damaged finishes to match original finish or replace component.

3.6 MAINTANENCE KIT

- A. A complete maintenance kit, which is supplied by the manufacturer with each structure, shall be relinquished by the contractor to the Owner upon project completion.

END OF SECTION 116800

SECTION 321813 – SYNTHETIC TURF SURFACING – PLAY AREAS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Synthetic turf surfacing for play areas.
- B. Related Sections include the following:
 - 1. Section 116800 "Playground Equipment and Structures" for installation of playground equipment.
 - 2. Section 312000 "Earth Moving" for subbase material.
 - 3. Section 334600 "Subdrainage" for drainage beneath synthetic turf surfacing.

1.3 SYSTEM DESIGN

- A. The synthetic turf surfacing system shall be specifically designed and recommended by the manufacturer for installation as a play area.
- B. The synthetic turf surfacing system shall be constructed to maximize dimensional stability, to resist damage during normal use, and to minimize UV degradation, including fading.
- C. The synthetic turf surfacing system shall be resistant to staining, weather, insects, rot, mildew, and fungus growth, and shall be non-allergenic and non-toxic.

1.4 ACTION SUBMITTALS

- A. Product Data: Submit manufacturer's product data, specifications and installation instructions for each product specified, including:
 - 1. Synthetic turf.
 - 2. Shock absorption pad.
 - 3. Aggregate base.
 - 4. Underdrains.
 - 5. Include sources for component materials.
- B. Material Certificates: Signed by manufacturer, certifying the materials and system proposed for the project comply with the specified performance criteria.

- C. Shop Drawings: Submit shop drawings that include scaled plans, sections, and large-scale details showing the installation and attachment of the synthetic turf surfacing system.
- D. Samples:
 - 1. 18 inch square samples showing details of finished installation. Include an example of a field joined seam between adjacent rolls and outside edge attachment.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualifications for Installer.
- B. Qualifications for Manufacturer.

1.6 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For synthetic turf surfacing system and maintenance equipment, to be included in maintenance manuals. Include the following:
 - 1. Manufacturer's written instructions manual for routine cleaning, adjustment, grooming, and other maintenance procedures. Include activities and procedures that could be detrimental to the synthetic turf surfacing system and should be avoided.
- B. Project Record Drawings: Record actual locations of seams and drains on the Record Drawings.
- C. Special Warranty: Special warranty specified in this Section.

1.7 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Firm specializing in the manufacturing of synthetic turf surfacing for a minimum of five years and who has completed work similar in design and extent to that required for the project, in not less than 15 synthetic turf play areas in the last three years and whose work has resulted in construction with a record of successful in-service performance.
 - 1. A firm whose playground surfacing has been certified by IPEMA's third-party product certification service.
 - 2. Verify that product system meets fall height requirements for play equipment being installed.
- B. Installer Qualifications: Firm experienced in the installation of synthetic turf play areas, who is certified by the synthetic turf manufacturer to install their materials, who has successfully installed work similar in design and extent to that required for the project, in not less than 10 projects of similar scope, to the satisfaction of the Architect, in the last three years, who employs trained workmen that are experienced in the installation of the synthetic turf system proposed for the project, and whose work has resulted in construction with a record of successful in-service performance.

- C. Single-Source Responsibility: Obtain synthetic turf surfacing system materials, including drainage mat, adhesives and seaming materials, from a single manufacturer regularly engaged in manufacturing the materials.
- D. Preinstallation Conference: Conduct conference at Project site.
 - 1. Prior to the start of the synthetic turf surface system work, coordinate a conference, to review the construction schedule, availability of materials, installer's personnel qualifications and experience, equipment and facilities needed to make progress and avoid delays, installation procedures, testing, inspection, and certification procedures, and coordination with other work.

1.8 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials to the site in original, unopened containers, wrapping, or packaging, with manufacturer's labels intact, identifying project, material, and production run or lot number for fabric roll.
- B. Immediately following delivery, inspect materials and components for damaged or defective items, including materials that are not uniform in color, out of tolerance regarding edge alignment and minimum pile height. Materials that are found to be damaged or defective shall be replaced at no additional cost to the Owner.
- C. Store materials in a secure, dry, well-ventilated location where protected from weather, exposure to UV, soil, dust, moisture and other contaminants. Store fabric rolls horizontally, on a flat surface.
- D. Handle according to manufacturer's recommendations to prevent damage, deterioration, distortion, or soiling.

1.9 PROJECT CONDITIONS

- A. Environmental Limitations:
 - 1. Do not install synthetic turf surfacing materials when:
 - a. Substrate surfaces/materials are wet, excessively damp, or have standing water.
 - b. Rain is imminent or forecast within 48 hours following proposed time of installation.
 - c. Weather conditions, or forecasted conditions, in the opinion of the installer or manufacturer's representative, will have an adverse effect on the installation.
 - d. Humidity levels are outside of the limits recommended by adhesive manufacturer.
 - 2. Install synthetic turf surfacing materials only when:
 - a. Material surface temperatures, including aggregate base materials, are above 45 degrees F, and anticipated to remain above 45 degrees F for not less than 48 hours following installation.
 - b. Ambient air temperature is 50 degrees F and rising, but not more than 95 degrees F, and forecast to remain above 50 degrees F for not less than 48 hours following installation.

- 1) Ambient air temperatures shall be taken in the shade, away from artificial heat sources, such as exposed pavement and stone aggregate fill.

1.10 EXTRA MATERIALS

- A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 1. Synthetic Turf Surfacing System Fabric: For repairs and/or replacement of areas displaying excessive wear.
 - a. 100 sq ft of fabric, 15 ft wide roll.

1.11 WARRANTY

- A. Special Warranty: Submit a written warranty for the synthetic turf surfacing system agreeing to repair or replace materials and components of the synthetic turf surfacing system that develop defects in materials or workmanship within the specified warranty period and any other deterioration of the surfacing system or evidence of failure to meet performance requirements. Defects include the following:
 1. Excessive Fading: Defined as the synthetic turf surfacing system shall remain a uniform color, without a change in appearance that is perceptible and objectionable, as determined by the Architect, when viewed visually in comparison with the original samples.
 2. Ultraviolet (UV) and heat degradation.
 3. Excessive Wear: Defined as the synthetic turf surfacing system pile height shall not decrease by more than 10 percent each year, or more than 50 percent within the specified warranty period beyond that attributable to normal use.
 4. Tuft bind loss.
 5. Fabric delamination.
 6. Loss of backing integrity.
 7. Seam and edge raveling.
 8. Wrinkling.
 9. Perimeter attachments.
 10. Distortion, either vertically or horizontally, due to dimensional instability.
- B. Warranty Period: 10 years from the date of Substantial Completion.
- C. The warranty shall include that if the synthetic turf surfacing system is determined to no longer be serviceable within the specified warranty period, the manufacturer and installer shall, at no cost to the Owner, remove and replace those areas of the surfacing system not meeting the specified performance criteria for pile height and impact/shock absorption.
- D. The warranty shall not be limited by the amount of use and shall not be prorated.
- E. Provide warranty signed by the Contractor, surfacing system manufacturer, and installer.
- F. The above warranties are in addition to, and not a limitation of, other rights the Owner may have under the Contract Documents.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. All components and their installation method shall be designed and manufactured for use on outdoor playgrounds. The materials as hereinafter specified, should be able to withstand full climatic exposure in location of installation, be resistant to insect infestation, rot, fungus and mildew; to ultra-violet light and heat degradation.
- B. The finished playing surface shall appear as mowed grass with no irregularities or wrinkles. The finished surface shall resist abrasion and cutting from normal use. The system shall be ideal playground use.

2.2 MANUFACTURERS

- A. Acceptable Manufacturers Include:
 - 1. ForeverLawn, 5801 Mayfair Road, Suite 4, North Canton, OH 44720; Tel: (866) 992-7876.
 - 2. SYNLAWN, 2680 Abutment Road, SE, Dalton, GA 30721. Tel: (866) 796-5296.
 - 3. XGrass, 1224 Riverbend Road, Dalton, GA 30721. Tel: (706) 272-0140.

2.3 PERFORMANCE REQUIREMENTS

- A. The synthetic turf surfacing system shall comply with the following:
 - 1. Yarn Density: Not less than 4,200 Denier; ASTM D 1557.
 - 2. Pile Weight: Total pile weight 56 oz/sq yd; ASTM D 5848.
 - 3. Primary Backing Weight: 8 oz/sq yd; ASTM D 5848.
 - 4. Secondary Backing Weight: Average 20 oz/sq yd; ASTM D 5848.
 - 5. Total Weight: 84 oz/sq yd; ASTM D 5848.
 - 6. Tuft Bind: Not less than 8 lbs; ASTM D 1335. (without infill)
 - 7. Tuft Bind: Not less than 10 lbs; ASTM D 1335. (with infill)
 - 8. Flame Resistance: Pass; ASTM D 2859.
 - 9. Drainage Through Fabric: Not less than 30 inches per hour; ASTM F 1551.
 - 10. Lead Content: The entire turf system shall be "lead-free".
- B. Provisions for Thermal Movement: The synthetic turf surfacing system, when installed, shall accommodate expansion and contraction, to a maximum of 1.0 percent, over the average range of temperature and humidity conditions experienced in Cincinnati.
- C. Uplift Resistance: The synthetic turf surfacing system shall be capable of withstanding wind loads in cladding wind load test report.
- D. Drainage: The synthetic turf surfacing system shall allow for the free movement and drainage of surface water through the surfacing system at a rate of 6 inches per hour.

2.4 SYNTHETIC TURF FABRIC

- A. Yarn: Athletic quality polyethylene parallel-long slit fiber yarn engineered specifically for outdoor use and stabilized to resist the effects of ultra-violet breakdown, heat, wear, water, fungus attacks, and airborne pollution.
 - 1. Yarn:
 - a. Field: EPN Nylon.
 - b. Thatch: Texturized Nylon.
 - 2. Yarn Length:
 - a. Field: 1-3/4 inches long, nominal, +/- 1/8".
 - b. Trim: 1-1/2 inches long, nominal, +/- 15 percent.
 - 3. Color:
 - a. Field: Green.
 - b. Trim: Tan.

2.5 ACCESSORIES

- A. Perimeter Board: Wood and plastic composite materials made from reclaimed wood fibers and reclaimed or recycled thermoplastic polymer plastic material.
- B. Shock absorption Pad: Recycled closed cell polyethylene shock absorption pad with drainage channels on the bottom of the pad. Density of pad as recommended by synthetic turf manufacturer.
 - 1. The shock absorption pad shall be a minimum 2 inch pre-formed pad, manufactured in 4' widths. All lateral and butt seams of adjoining rolls shall be fastened to assure a monolithic pad upon completion.
 - 2. Shock absorption pad shall meet IPEMA standards for fall heights of playground equipment being installed.
 - 3. Shock absorption pad shall possess these physical characteristics:
 - a. Thickness 2 inch min.
 - b. Weight >1 lbs./sq. ft.
 - c. Vertical Water Permeability >36 gal/min/sq. ft.
- C. Perimeter edge details, underground storm sewer piping and connections, required for the system shall be as detailed on the drawings with modifications as recommended by the manufacturer, only after approval by the Architect. The cost for these modifications shall be included in the Contract Sum.
- D. Stone Leveling Course: Clean washed crushed #9 aggregate.
- E. The entire synthetic turf system shall be resistant to attack by bacteria and to fungal growth.
- F. The entire synthetic turf system shall be "lead-free".

- G. Provide all additional materials, equipment and accessories necessary for a complete installation as recommended by the manufacturer. Included are all perimeter fasteners, backings, tools, labor, equipment, and means for protection of adjacent surfaces and materials.

2.6 FABRICATION

- A. Fabric Rolls: Fabricate synthetic turf fabric in strips, 15 ft. wide by length required to extend completely across the turf surfacing area, without intermediate cross seams.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine area to receive synthetic turf surfacing system, with installer present, for compliance with manufacturer's requirements and other conditions affecting performance.
 - 1. Verify the finish elevations, slopes, and planarity of the base comply with requirements of the Project and surfacing system manufacturer.
 - 2. Record findings, prepare a written report, signed by Contractor and installer, and submit copies of report to the Architect and the Owner.
- B. Proceed with installation only after unsatisfactory conditions have been corrected. Commencement of installation shall indicate acceptance of existing conditions.

3.2 PREPARATION

- A. Thoroughly clean the area to receive the synthetic turf system of foreign material and all other substances and materials that may be detrimental to permeability and/or installation of the synthetic turf system.

3.3 INSTALLATION

- A. General: All work shall be performed by skilled workmen, who are experienced and trained by the manufacturer in the installation of the synthetic turf system. Work shall be performed in accordance with the Drawings, reviewed shop drawings, and manufacturer's written installation instructions.
- B. Synthetic turf surfacing fabric rolls shall be unrolled and allowed to relax prior to installation.
- C. Fabric Roll Installation:
 - 1. Install perimeter boards as recommended by the surfacing system manufacturer, including board attachment fasteners.
 - 2. Attach the shock absorption pad to the perimeter boards with glue as recommended by the surfacing system manufacturer.
 - 3. Synthetic turf surfacing fabric rolls shall be installed across entire width of area, parallel to long dimension, or as directed by the Architect.

- a. Rolls shall extend from edge to edge. Cross seams are not allowed.
 - b. Rolls shall be rolled out in same direction and installed with uniform pile direction of fibers.
 - c. Rolls shall be laid straight and true to line. Adjacent rolls, when laid together, shall form a tight fitting seam for the entire length of the fabric. Fitted pieces are not allowed.
4. Spot glue the surfacing fabric to the shock absorption pad as recommended by the surfacing system manufacturer.

D. Seaming of Fabric:

1. Seams in the synthetic turf fabric rolls shall be glued together with seaming cloth, utilizing the manufacturer's standard seaming procedures and materials, ensuring that each roll is properly attached to the next.
 - a. Seams shall be flat, tight, and permanent, with no separation or fraying.
 - b. Seams, when completed, shall display no visible signs of joining, with fibers brushed to provide full coverage of fibers over the seam.

3.4 TOLERANCES

- A. The compaction of the aggregate base shall be 95% to Standard Proctor and surface tolerances shall not exceed 1/4" in a 10' radial area.
- B. The final installed system shall be level. Surface tolerances shall not exceed 1/4" in a 10' radial area.

3.5 CLEANING AND PROTECTION

- A. The installer shall keep the site clean and clear of debris throughout the project. Waste materials, including excess materials remaining after completion of the Work, shall be removed and legally disposed of offsite.
- B. Installer shall provide all labor, supplies, and equipment required to completely remove stains and other blemishes from all finished surfaces.
- C. Provide protection over installed synthetic turf surfacing systems, including closing the area to traffic, as required to ensure installed system will be free of damage at time of Substantial Completion.

3.6 INSPECTION

- A. Inspection: After installation is complete, the synthetic turf surfacing system installer, synthetic turf surfacing system manufacturer's representative, and Architect shall inspect the installation. Any corrections shall be noted in a written report and completed prior to Substantial Completion.

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3.7 DEMONSTRATION AND TRAINING

- A. Train Owner's staff regarding maintenance and repair/replacement of the synthetic turf surfacing system, and maintenance. Training dates and times shall be coordinated by the Owner.
- B. All training shall be completed prior to Substantial Completion of the project.

END OF SECTION 321816

SECTION 329200 - TURF AND GRASSES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:

- 1. Seeding.
- 2. Turf renovation.
- 3. Erosion-control material(s).

- B. Related Requirements:

- 1. Section 329113 "Planting Soils" for soil mix and installation.
- 2. Section 329300 "Plants" for trees, shrubs, ground covers, and other plants.

1.3 DEFINITIONS

- A. Finish Grade: Elevation of finished surface of planting soil.
- B. Pesticide: A substance or mixture intended for preventing, destroying, repelling, or mitigating a pest. Pesticides include insecticides, miticides, herbicides, fungicides, rodenticides, and molluscicides. They also includes substances or mixtures intended for use as a plant regulator, defoliant, or desiccant.
- C. Pests: Living organisms that occur where they are not desired or that cause damage to plants, animals, or people. Pests include insects, mites, grubs, mollusks (snails and slugs), rodents (gophers, moles, and mice), unwanted plants (weeds), fungi, bacteria, and viruses.
- D. Planting Soil: Existing, on-site soil; imported soil; or manufactured soil that has been modified with soil amendments and perhaps fertilizers to produce a soil mixture best for plant growth. See Section 329113 "Planting Soils."
- E. Subgrade: The surface or elevation of subsoil remaining after excavation is complete, or the top surface of a fill or backfill before planting soil is placed.

1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For landscape Installer.
- B. Certification of Grass Seed: From seed vendor for each grass-seed monostand or mixture, stating the botanical and common name, percentage by weight of each species and variety, and percentage of purity, germination, and weed seed. Include the year of production and date of packaging.
- C. Product Certificates: For fertilizers, from manufacturer.
- D. Pesticides and Herbicides: Product label and manufacturer's application instructions specific to Project.

1.6 CLOSEOUT SUBMITTALS

- A. Maintenance Data: Recommended procedures to be established by Owner for maintenance of turf during a calendar year. Submit before expiration of required maintenance periods.

1.7 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified landscape installer whose work has resulted in successful turf establishment.
 - 1. Professional Membership: Installer shall be a member in good standing of either the Professional Landcare Network or the American Nursery and Landscape Association.
 - 2. Experience: Five years' experience in turf installation in addition to requirements in Section 014000 "Quality Requirements."
 - 3. Installer's Field Supervision: Require Installer to maintain an experienced full-time supervisor on Project site when work is in progress.
 - 4. Personnel Certifications: Installer's field supervisor shall have certification in all of the following categories from the Professional Landcare Network:
 - a. Landscape Industry Certified Technician - Exterior.
 - b. Landscape Industry Certified Lawncare Manager.
 - c. Landscape Industry Certified Lawncare Technician.
 - 5. Pesticide Applicator: State licensed, commercial.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Seed and Other Packaged Materials: Deliver packaged materials in original, unopened containers showing weight, certified analysis, name and address of manufacturer, and indication of compliance with state and Federal laws, as applicable.
- B. Bulk Materials:
 - 1. Do not dump or store bulk materials near structures, utilities, walkways and pavements, or on existing turf areas or plants.

2. Provide erosion-control measures to prevent erosion or displacement of bulk materials; discharge of soil-bearing water runoff; and airborne dust reaching adjacent properties, water conveyance systems, or walkways.
3. Accompany each delivery of bulk materials with appropriate certificates.

1.9 FIELD CONDITIONS

- A. Planting Restrictions: Plant during one of the following periods. Coordinate planting periods with initial maintenance periods to provide required maintenance from date of Substantial Completion.
 1. Spring Planting: March 15 to June 1.
 2. Fall Planting: August 15 to October 15.
- B. Weather Limitations: Proceed with planting only when existing and forecasted weather conditions permit planting to be performed when beneficial and optimum results may be obtained. Apply products during favorable weather conditions according to manufacturer's written instructions.

PART 2 - PRODUCTS

2.1 SEED

- A. Grass Seed: Fresh, clean, dry, new-crop seed complying with AOSA's "Rules for Testing Seeds" for purity and germination tolerances.
- B. Seed Mix: Seed of grass species as follows, with not less than 85 percent germination, not less than 98 percent pure seed, and completely free of noxious weeds and grasses. The mixture shall be as follows or an approved equal: (Mixture shall rate in NTEP's top ten. Contractor to provide information on grass seed stating it meets NTEP's top ten list)
 1. 80-90 percent Turf-type Tall Fescue consisting of minimum 3 varieties (15 percent minimum for any variety).
 2. 5-10 percent Perennial Ryegrass.
 3. 5-10 percent Kentucky Bluegrass.

2.2 FERTILIZERS

- A. Commercial Fertilizer: Commercial-grade complete fertilizer of neutral character, consisting of quick release nitrogen source, phosphate, and potash. Apply nitrogen, phosphate and potash in the amounts recommended in the soil reports from a qualified testing agency.
- B. Slow-Release Fertilizer: Granular fertilizer consisting of a minimum of 50 percent water-insoluble nitrogen or coated nitrogen source, phosphate, and potash. Apply nitrogen, phosphate and potash in the amounts recommended in the soil reports from a qualified testing agency.

2.3 MULCHES

- A. Straw Mulch: Provide air-dry, clean, mildew- and seed-free, salt hay or threshed straw of wheat, rye, oats, or barley.

2.4 PESTICIDES

- A. General: Pesticide, registered and approved by the EPA, acceptable to authorities having jurisdiction, and of type recommended by manufacturer for each specific problem and as required for Project conditions and application. Do not use restricted pesticides unless authorized in writing by authorities having jurisdiction.
- B. Pre-Emergent Herbicide (Selective and Nonselective): Effective for controlling the germination or growth of weeds within planted areas at the soil level directly below the mulch layer.
- C. Post-Emergent Herbicide (Selective and Nonselective): Effective for controlling weed growth that has already germinated.

2.5 EROSION-CONTROL MATERIALS

- A. Erosion-Control Blankets: Biodegradable wood excelsior, straw, or coconut-fiber mat enclosed in a photodegradable plastic mesh. Include manufacturer's recommended steel wire staples, 6 inches long.
- B. Erosion-Control Fiber Mesh: Biodegradable burlap or spun-coir mesh, a minimum of 0.92 lb/sq. yd., with 50 to 65 percent open area. Include manufacturer's recommended steel wire staples, 6 inches long.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas to be planted for compliance with requirements and other conditions affecting installation and performance of the Work.
 - 1. Verify that no foreign or deleterious material or liquid such as paint, paint washout, concrete slurry, concrete layers or chunks, cement, plaster, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, or acid has been deposited in soil within a planting area.
 - 2. Suspend planting operations during periods of excessive soil moisture until the moisture content reaches acceptable levels to attain the required results.
 - 3. Uniformly moisten excessively dry soil that is not workable or which is dusty.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.
- C. If contamination by foreign or deleterious material or liquid is present in soil within a planting area, remove the soil and contamination as directed by Architect and replace with new planting soil.

3.2 PREPARATION

- A. Protect structures; utilities; sidewalks; pavements; and other facilities, trees, shrubs, and plantings from damage caused by planting operations.
 - 1. Protect adjacent and adjoining areas from hydroseeding and hydromulching overspray.
 - 2. Protect grade stakes set by others until directed to remove them.
- B. Install erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.

3.3 TURF AREA PREPARATION

- A. General: Prepare planting area for soil placement and mix planting soil according to Section 329113 "Planting Soils."
- B. Placing Planting Soil: Place and mix planting soil per section 329113 "Planting Soils."
- C. Moisten prepared area before planting if soil is dry. Water thoroughly and allow surface to dry before planting. Do not create muddy soil.
- D. Before planting, obtain Architect's acceptance of finish grading; restore planting areas if eroded or otherwise disturbed after finish grading.

3.4 PREPARATION FOR EROSION-CONTROL MATERIALS

- A. Prepare area as specified in "Turf Area Preparation" Article.
- B. For erosion-control blanket or mesh, install from top of slope, working downward, and as recommended by material manufacturer for site conditions. Fasten as recommended by material manufacturer.
- C. Moisten prepared area before planting if surface is dry. Water thoroughly and allow surface to dry before planting. Do not create muddy soil.

3.5 SEEDING

- A. Sow seed with spreader or seeding machine. Do not broadcast or drop seed when wind velocity exceeds 5 mph.
 - 1. Evenly distribute seed by sowing equal quantities in two directions at right angles to each other.
 - 2. Do not use wet seed or seed that is moldy or otherwise damaged.
 - 3. Do not seed against existing trees. Limit extent of seed to outside edge of planting saucer.
- B. Sow seed at a total rate of 6 to 8 lb/1000 sq. ft..
- C. Rake seed lightly into top 1/8 inch of soil, roll lightly, and water with fine spray.

- D. Protect seeded areas with slopes exceeding 1:4 with erosion-control blankets and 1:6 with erosion-control fiber mesh installed and stapled according to manufacturer's written instructions.
- E. Protect seeded areas with slopes not exceeding 1:6 by spreading straw mulch. Spread uniformly at a minimum rate of 2 tons/acre to form a continuous blanket 1-1/2 inches in loose thickness over seeded areas. Spread by hand, blower, or other suitable equipment.
 - 1. Anchor straw mulch by crimping into soil with suitable mechanical equipment.
- F. Overseed turf area eight (8) weeks after initial seeding operation at a rate of 5 lbs/1000 sq. ft., if initial seeding has not provided a minimum of 90% coverage over any 10 sq. ft., or if bare areas greater the 3 by 3 inches are present.

3.6 TURF RENOVATION

- A. Renovate existing turf where indicated.
- B. Renovate turf damaged by Contractor's operations, such as storage of materials or equipment and movement of vehicles.
 - 1. Reestablish turf where settlement or washouts occur or where minor regrading is required.
 - 2. Install new planting soil as required.
- C. Remove sod and vegetation from diseased or unsatisfactory turf areas; do not bury in soil.
- D. Remove topsoil containing foreign materials, such as oil drippings, fuel spills, stones, gravel, and other construction materials resulting from Contractor's operations, and replace with new planting soil.
- E. Mow, dethatch, core aerate, and rake existing turf.
- F. Remove weeds before seeding. Where weeds are extensive, apply selective herbicides as required. Do not use pre-emergence herbicides.
- G. Remove waste and foreign materials, including weeds, soil cores, grass, vegetation, and turf, and legally dispose of them off Owner's property.
- H. Till stripped, bare, and compacted areas thoroughly to a soil depth of 6 inches.
- I. Apply initial fertilizer required for establishing new turf and mix thoroughly into top 4 inches of existing soil. Install new planting soil to fill low spots and meet finish grades.
 - 1. Initial Fertilizer: Commercial fertilizer applied according to manufacturer's recommendations.
- J. Apply seed and protect with straw mulch as required for new turf.
- K. Water newly planted areas and keep moist until new turf is established.

3.7 TURF MAINTENANCE

- A. General: Maintain and establish turf by watering, fertilizing, weeding, mowing, trimming, replanting, and performing other operations as required to establish healthy, viable turf. Roll, regrade, and replant bare or eroded areas and remulch to produce a uniformly smooth turf. Provide materials and installation the same as those used in the original installation.
 - 1. Fill in as necessary soil subsidence that may occur because of settling or other processes. Replace materials and turf damaged or lost in areas of subsidence.
 - 2. In areas where mulch has been disturbed by wind or maintenance operations, add new mulch and anchor as required to prevent displacement.
 - 3. Apply treatments as required to keep turf and soil free of pests and pathogens or disease. Use integrated pest management practices whenever possible to minimize the use of pesticides and reduce hazards.
- B. Watering: Install and maintain temporary piping, hoses, and turf-watering equipment to convey water from sources and to keep turf uniformly moist to a depth of 4 inches.
 - 1. Schedule watering to prevent wilting, puddling, erosion, and displacement of seed or mulch. Lay out temporary watering system to avoid walking over muddy or newly planted areas.
 - 2. Water turf with fine spray at a minimum rate of 1 inch per week unless rainfall precipitation is adequate.
- C. Mow turf as soon as top growth is tall enough to cut. Repeat mowing to maintain specified height without cutting more than one-third of grass height. Remove no more than one-third of grass-leaf growth in initial or subsequent mowings. Do not delay mowing until grass blades bend over and become matted. Do not mow when grass is wet. Schedule initial and subsequent mowings to maintain the following grass height:
 - 1. Mow turf to a height of 2 to 3 inches.
- D. Turf Post-fertilization: Apply fertilizer after initial mowing and when grass is dry.
 - 1. Use fertilizer that provides actual nitrogen of 1 lb/1000 sq. ft. to turf area.
 - 2. 2nd application fertilizer: apply six (6) weeks after seeding operations. Provide a high nitrogen slow release fertilizer with an analysis of 30-3-10 or similar. Apply at a rate to provide actual nitrogen of 1 lb/1000 sq. ft. to turf area.

3.8 SATISFACTORY TURF

- A. Turf installations shall meet the following criteria as determined by Architect:
 - 1. Satisfactory Seeded Turf: At end of maintenance period, a healthy, uniform, close stand of grass has been established, free of weeds and surface irregularities, with coverage exceeding 90 percent over any 10 sq. ft. and bare spots not exceeding 5 by 5 inches.
- B. Use specified materials to reestablish turf that does not comply with requirements, and continue maintenance until turf is satisfactory.

3.9 PESTICIDE APPLICATION

- A. Apply pesticides and other chemical products and biological control agents according to requirements of authorities having jurisdiction and manufacturer's written recommendations. Coordinate applications with Owner's operations and others in proximity to the Work. Notify Owner before each application is performed.
- B. Post-Emergent Herbicides (Selective and Nonselective): Apply only as necessary to treat already-germinated weeds and according to manufacturer's written recommendations.

3.10 CLEANUP AND PROTECTION

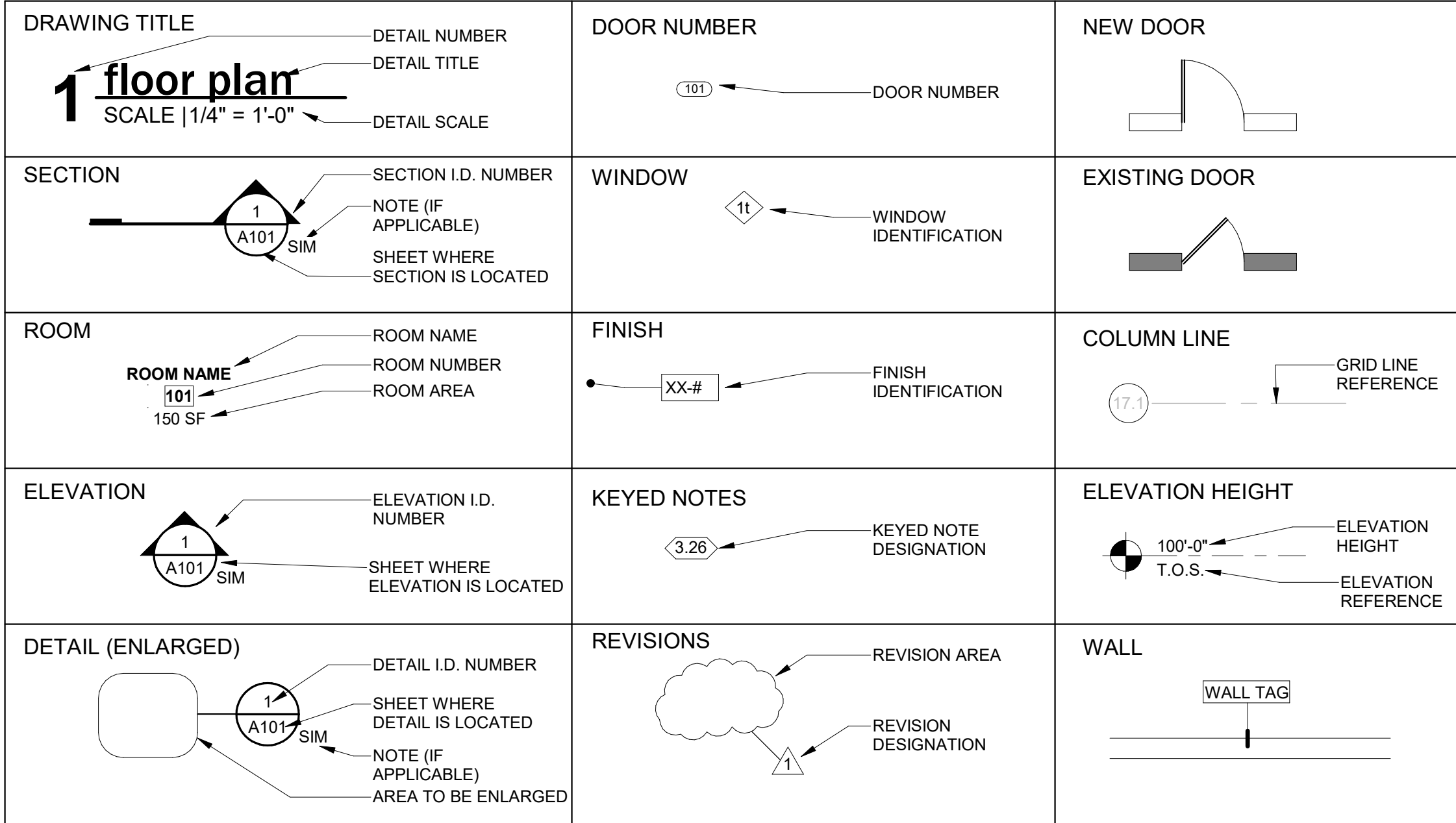
- A. Promptly remove soil and debris created by turf work from paved areas. Clean wheels of vehicles before leaving site to avoid tracking soil onto roads, walks, or other paved areas.
- B. Remove surplus soil and waste material, including excess subsoil, unsuitable soil, trash, and debris, and legally dispose of them off Owner's property.
- C. Erect temporary fencing or barricades and warning signs as required to protect newly planted areas from traffic. Maintain fencing and barricades throughout initial maintenance period and remove after plantings are established.
- D. Remove nondegradable erosion-control measures after grass establishment period.

3.11 MAINTENANCE SERVICE

- A. Turf Maintenance Service: Provide full maintenance by skilled employees of landscape Installer. Maintain as required in "Turf Maintenance" Article. Begin maintenance immediately after each area is planted and continue until acceptable turf is established, but for not less than the following periods:
 - 1. Seeded Turf: 90 days from date of Substantial Completion.
 - a. When initial maintenance period has not elapsed before end of planting season, or if turf is not fully established, continue maintenance during next planting season.

END OF SECTION 329200

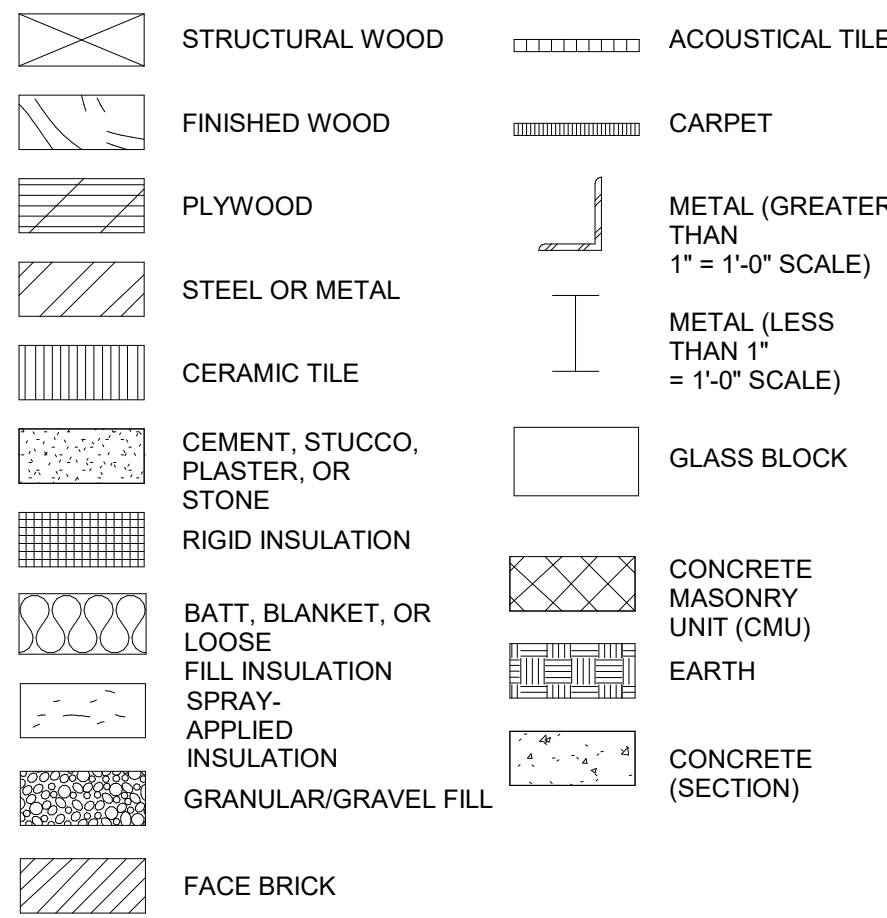
SYMBOLS



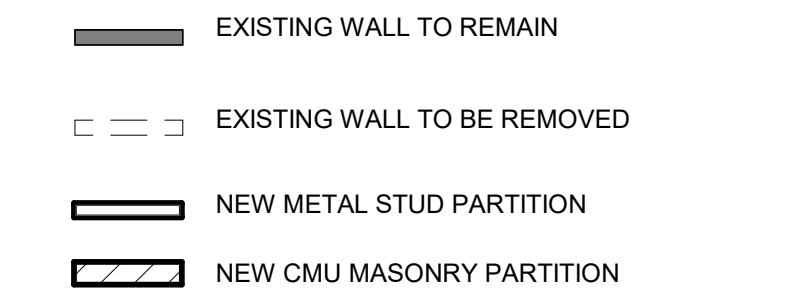
ABBREVIATIONS

& Z @ # X# #	AND ANGLE AT CENTERLINE SQUARE POUND OR NUMBER	CHAM CHK. BD. C.I. C.L.O. CLG CLO CLR CMU CNTR COL COMB COMPT CONC CONF CONN CONST CONTIG COORD CORR CP CS CSMT CTR CTSK CW	CHAMFER CHALK BOARD CAST IRON CONTROL JOINT CENTER LINE 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 CERAMIC TILE CENTER COUNTERSUNK COLD WATER	DWR DWG E EA E.C.C. EJ EL or ELEV ELC EMER ENLARGED ENLRGD EP 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 EMERGENCY SHOWER STATION BY PLUMBING CONTRACTOR EMERGENCY EYEWASH BY PLUMBING CONTRACTOR EXHAUST EXISTING EXPANDED ELECTRIC WATER COOLER EXPOSED 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	HB HBD HC HD HGR HWR HWDW HOWIE HEX HGT HM HORZ HR HTG HVIC HW	HOSE BIBB HARDBOARD HOLLOW CORE HEAVY DUTY HEADER HARDWOOD HARDWARE HEXAGON HEIGHT HOLLOW METAL HORIZONTAL HOUR HEATING HEATING / VENTILATION / AIR CONDITIONING HOT WATER	ICU ID INSUL INT ISO JAN JC JT KIT KPL KS	INTENSIVE CARE UNIT INSIDE DIAMETER (DIM) INSULATION INTERIOR ISOMETRIC JANITOR JANITOR'S CLOSET JOINT KITCHEN KICKPLATE KNEE SPACE	L LAB LAM LAV LH LKR LOC LLD LTD LTL LTV LVR	LEFT LABORATORY LAMINATE LAVATORY LEFT HAND LOCKER LOCATION LEAD LINED DOOR LIGHT LIMITED LOUVER	OA OC OD OFF OH OPH OPENING OPPOSITE 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 PS PT PTD/PT	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 SPEAK SPL SQ SS STA STD STL STOR STRUL 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 VIF 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	XMFR	TRANSFORMER
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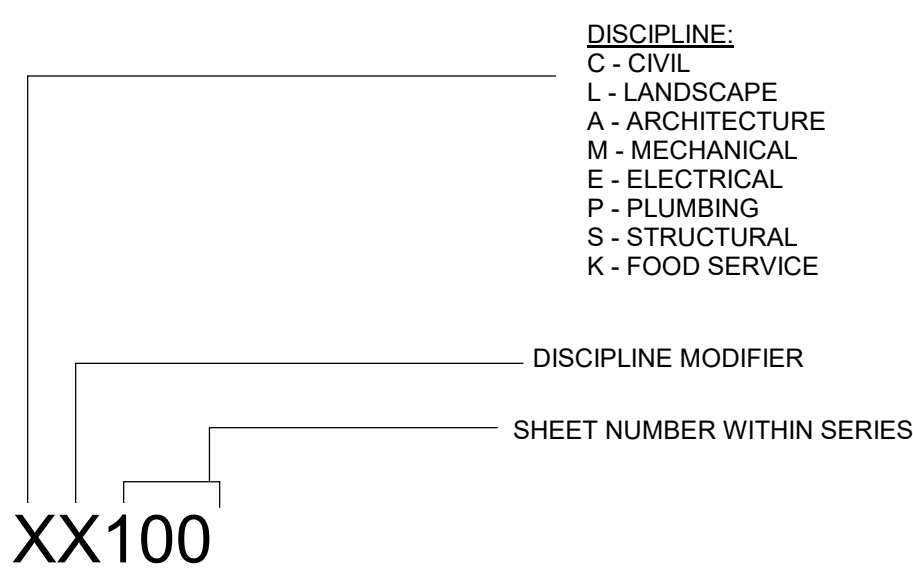
MATERIAL INDICATIONS



WALL INDICATIONS



SHEET DESIGNATION



GENERAL NOTES

- 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.
- 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.
- 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.
- 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.
- 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.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A WEATHER TIGHT BUILDING DURING CONSTRUCTION.
- 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.

STATE OF OHIO

MARK C. WISEMAN

13215

REGISTERED ARCHITECT

Mark C. Wiseman, License #13215

Expiration Date 12/31/2027

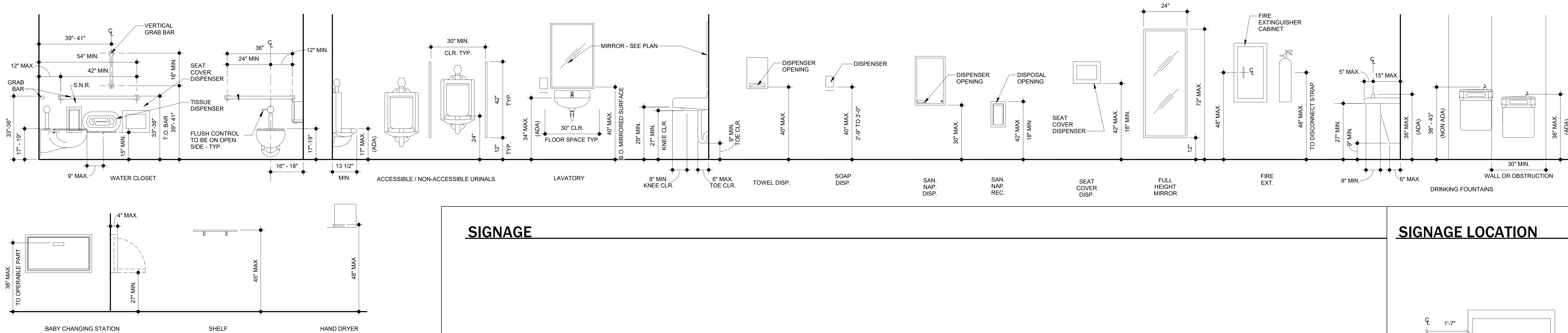
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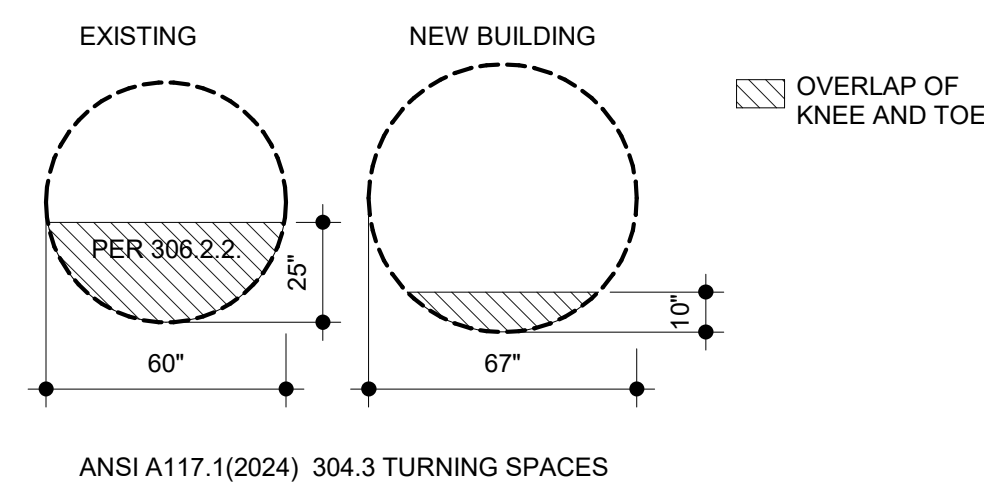
CONSULTANTS:

MOUNTING HEIGHTS

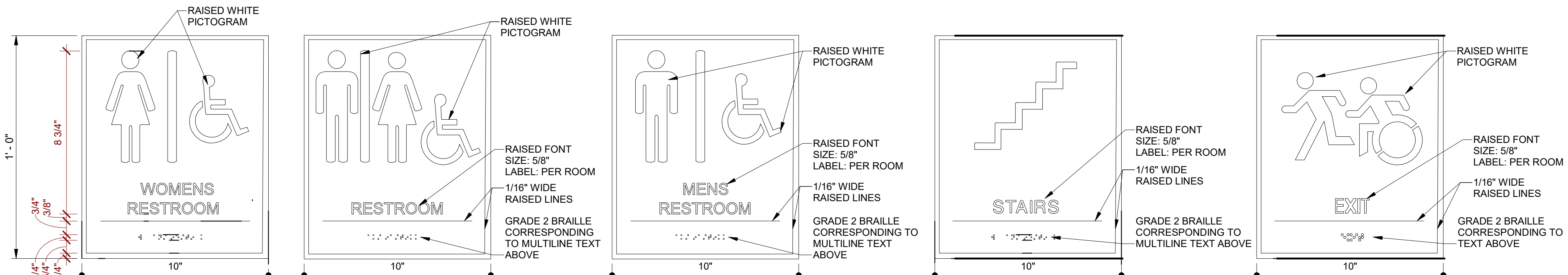
NOTE: ALL ITEMS SHALL BE MOUNTED IN ACCORDANCE WITH OBC CHAPTER 11 (CURRENT VERSION)
(CONTRACTOR NOTE: NOT ALL THE FOLLOWING ITEMS ARE USED IN THIS PROJECT - SEE DRAWINGS & SPECS FOR ADDITIONAL DETAILS. ALL DIMENSIONS ARE NOT TO SCALE.)



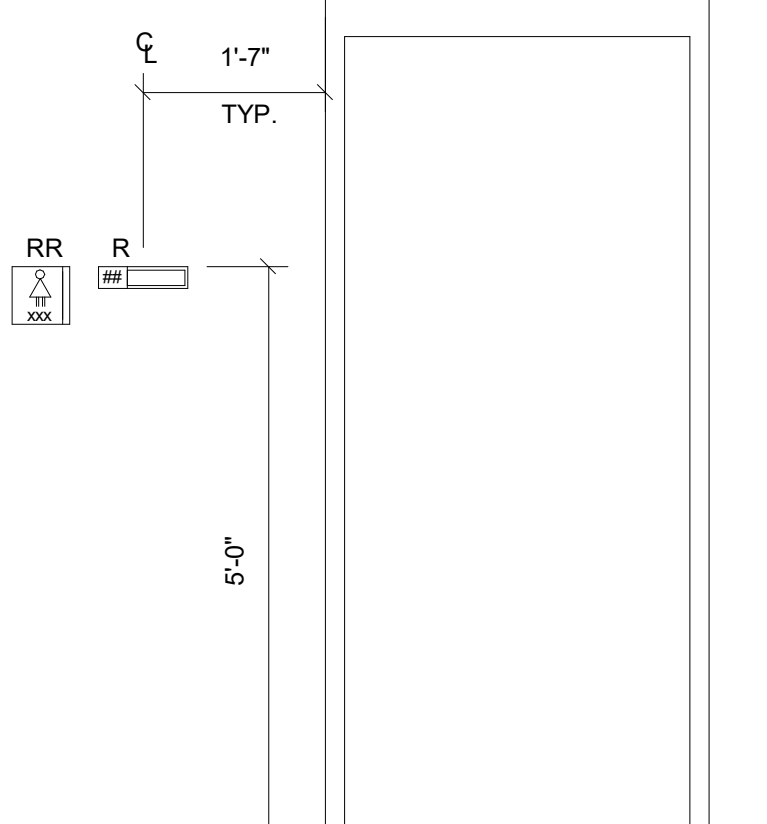
TURNING RADIUS



SIGNAGE



SIGNAGE LOCATION



WARREN COUNTY
CAREER CENTER
MEDICAL ACADEMY



PROJECT NO: #263306.00
CHECKED BY: Checker
DRAWN BY: Author
DATE: 09/15/2025

LEVIN PORTER
ARCHITECTS

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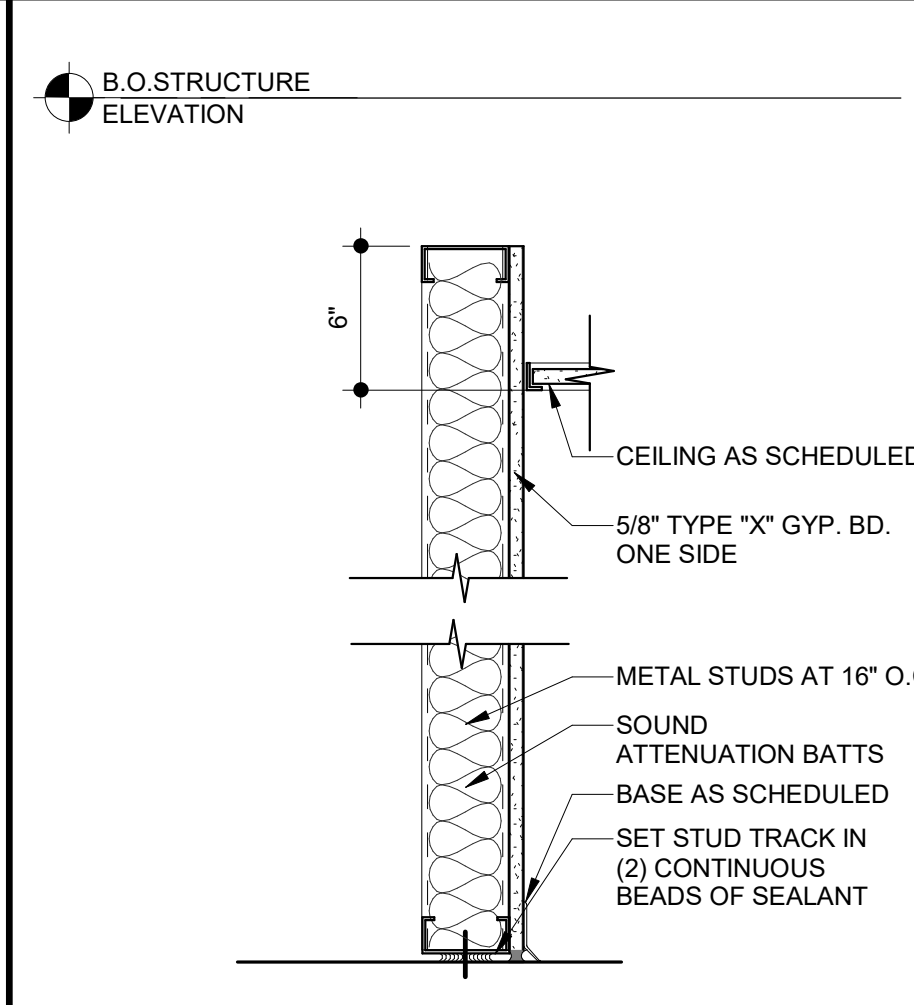
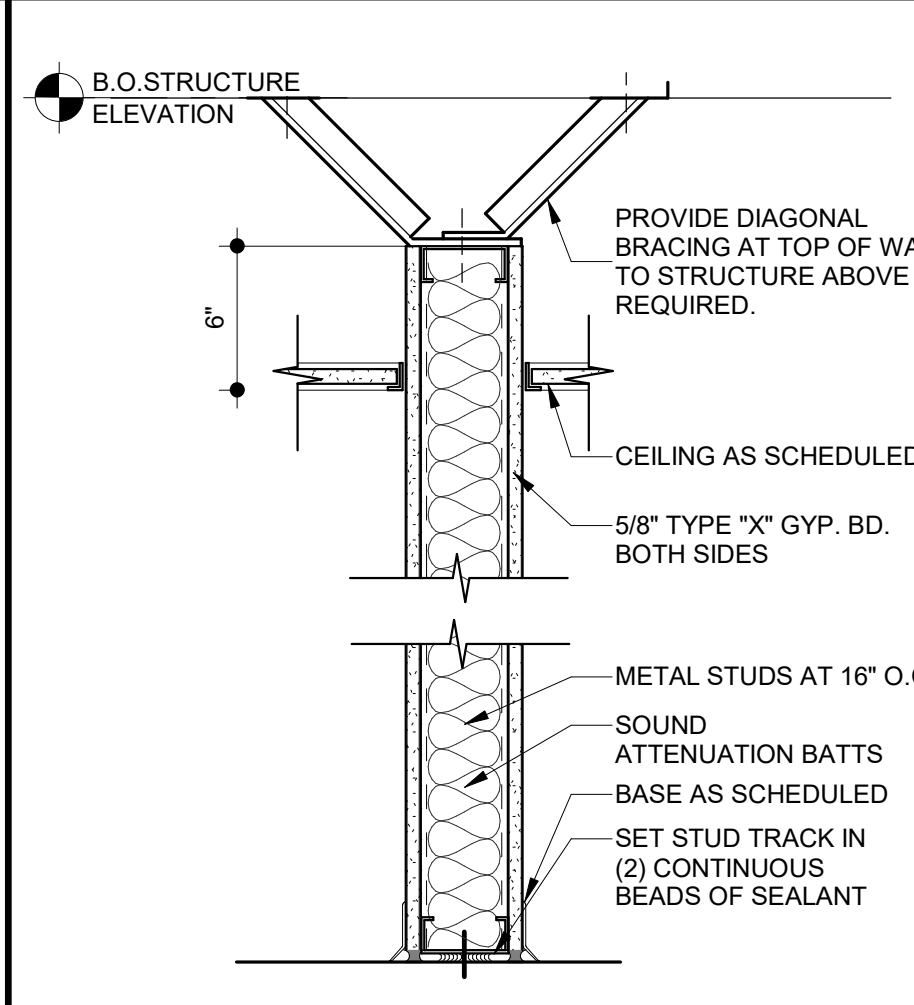
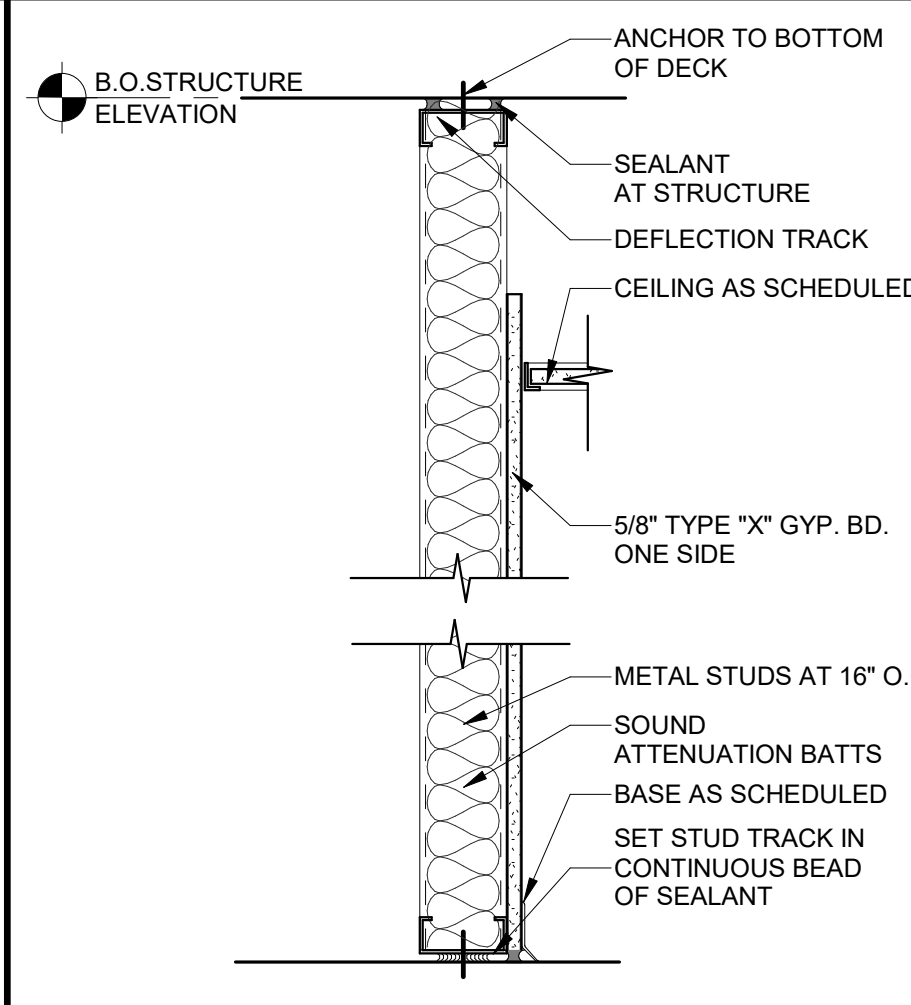
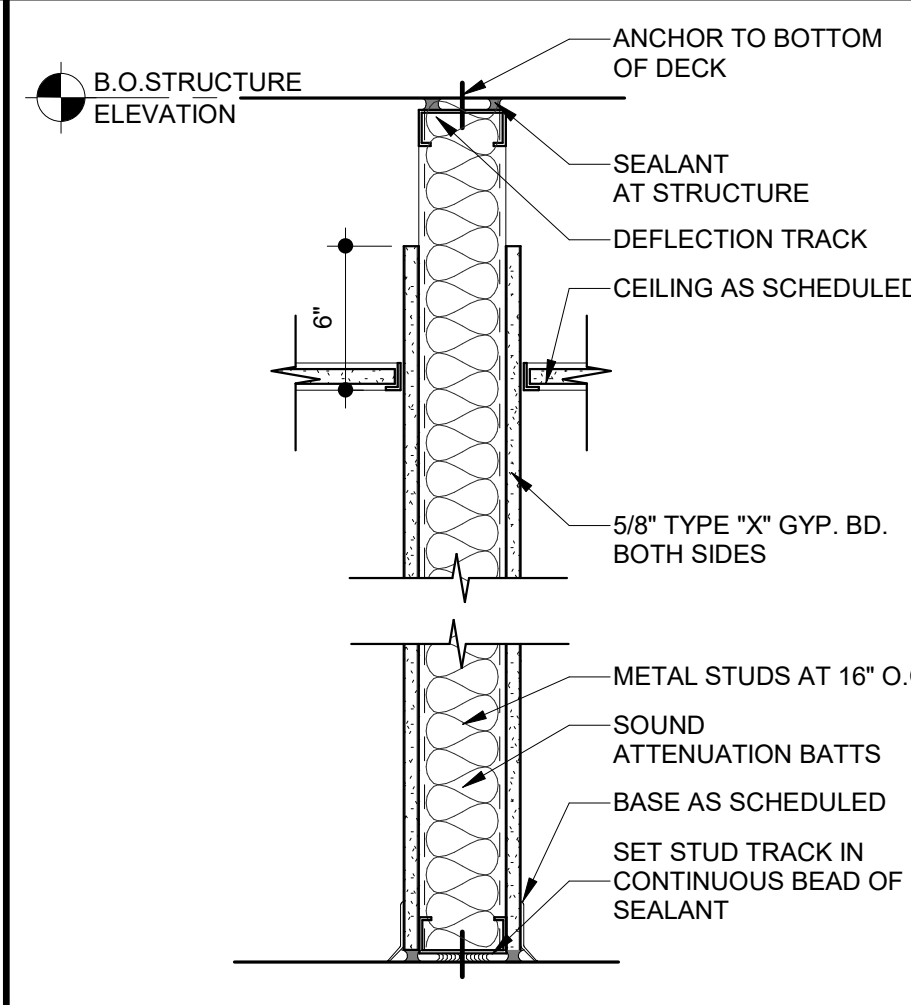
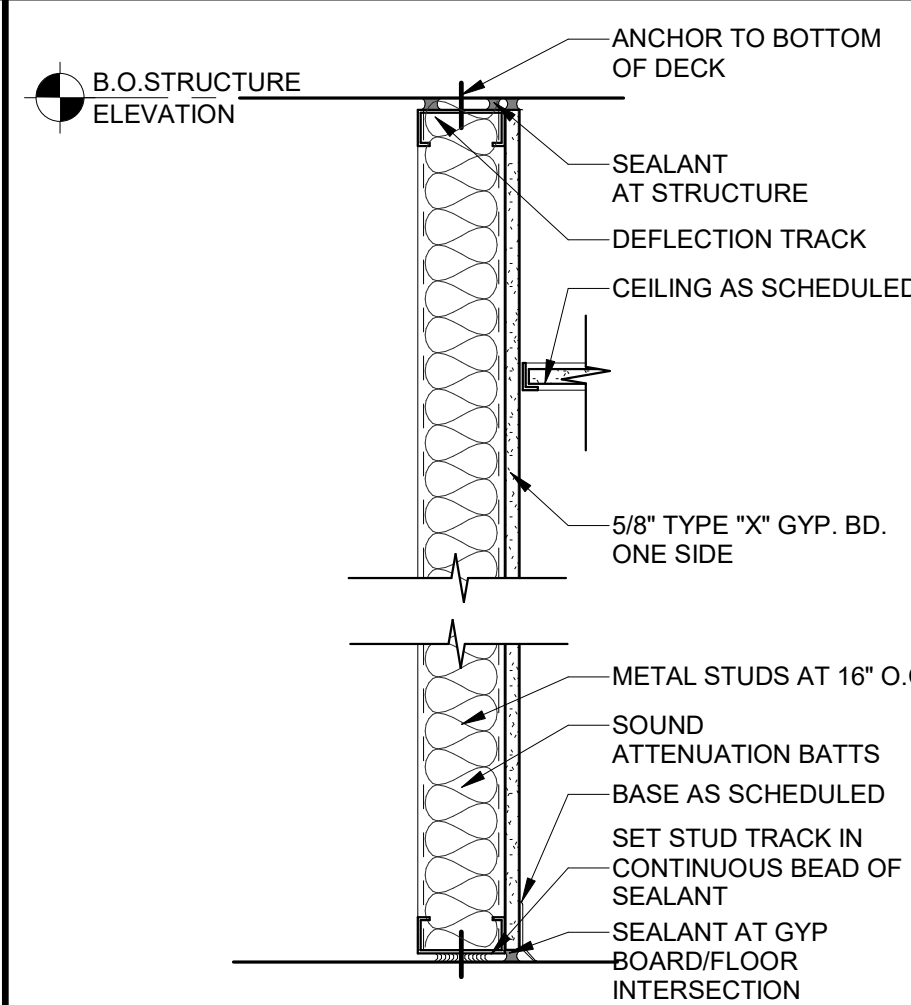
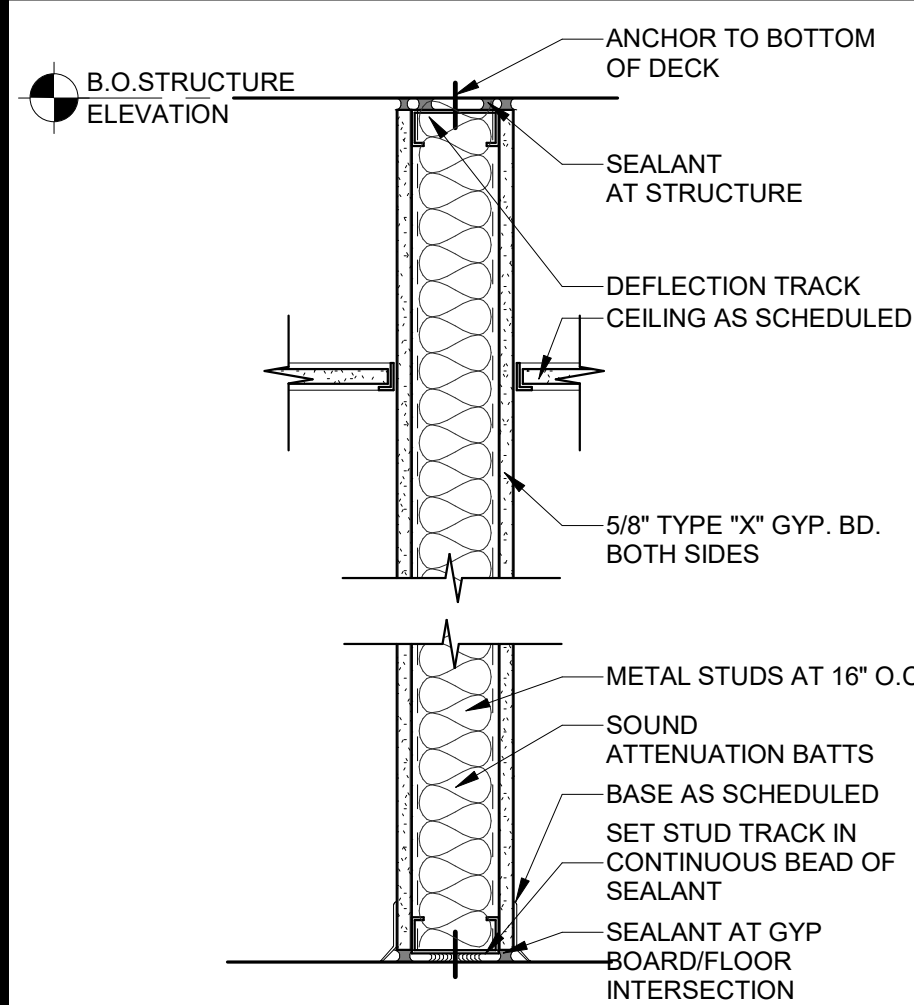
Levin Porter Associates Inc. dba Levin Porter Architects



GENERAL NOTES AND SYMBOLS

G002

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



A NON-RATED
UL: N/A

Z 1HR RATED
UL: U419

B

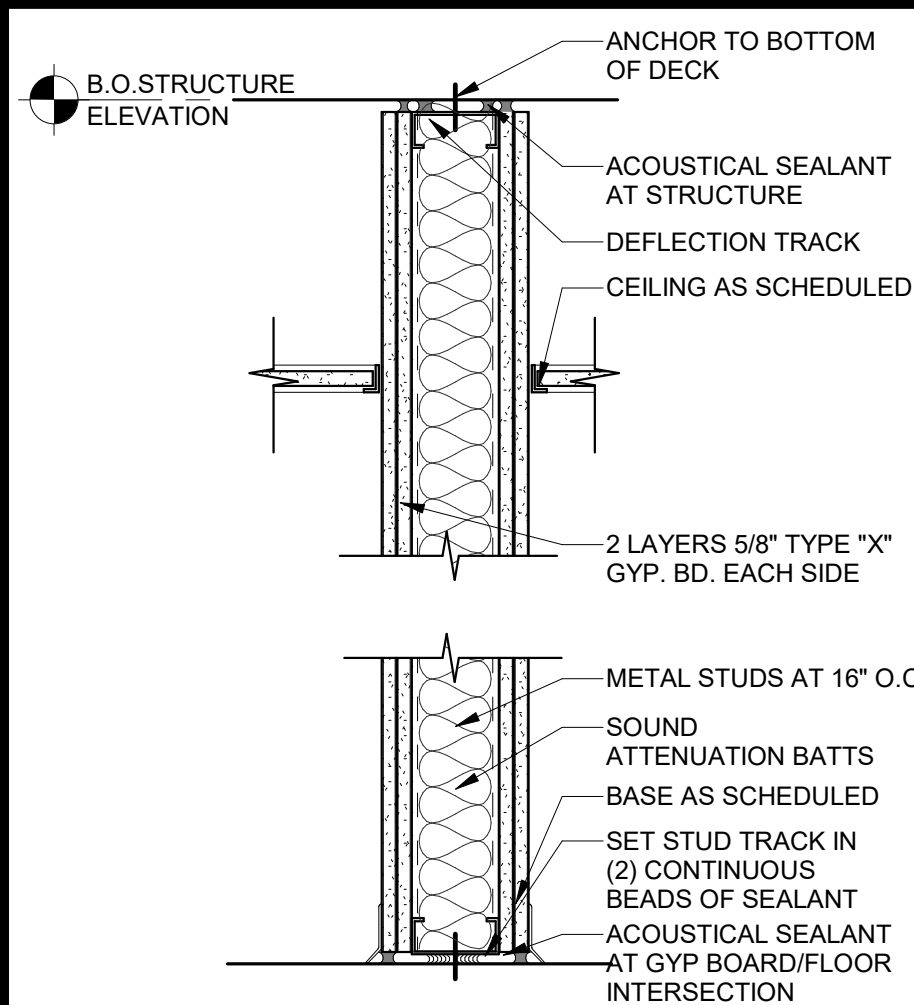
C

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	SUFFIX	STUD SIZE	TOTAL WIDTH	SUFFIX	STUD SIZE	TOTAL WIDTH	SUFFIX	STUD SIZE	TOTAL WIDTH	SUFFIX	STUD SIZE	TOTAL WIDTH	SUFFIX	STUD SIZE	TOTAL WIDTH			
A1 or Z1	3 5/8"	4 7/8"	40 (49 w/ 3" SAB)	B1	3 5/8"	4 1/4"	C1	3 5/8"	4 7/8"	D1	3 5/8"	4 1/4"	E1	3 5/8"	4 7/8"	F1	7/8"	1 1/2"			
A2 or Z2	6"	7 1/4"		B2	6"	6 5/8"	C2	6"	7 1/4"	D2	6"	6 5/8"	E2	6"	7 1/4"	F2	2 1/2"	3 1/8"			
A3 or Z3	8"	9 1/4"		B3	8"	8 5/8"	C3	8"	9 1/4"	D3	8"	8 5/8"	E3	8"	9 1/4"	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	SUFFIX				
H1 OR Y1	3 5/8"	6 1/8"	54	J1				
H2 OR Y2	6"	8 1/2"	58	J2				
				J3				

DOOR FRAMING DETAIL
SCALE: N.T.S. REF. USG GYPSUM CONSTRUCTION HANDBOOK

Labels for Door Framing Detail:
 DIM "D"
 6" MAX.
 ROOF RUNNER
 3/4" HORIZ. BRACING WHEN OPENING IS MORE THAN 3'-0" OMIT BRACING WHEN DIM "D" IS 2'-0" OR LESS
 METAL STUDS @ 16" O.C. MAX
 RUNNER BETWEEN JAMB STUDS
 CONTINUOUS BRACING WHERE STUDS ARE MORE THAN 12'-0" LONG
 METAL DOOR FRAME
 20 GA. (MIN) DOUBLE STUDS @ EACH JAMB
 JAMB ANCHOR - MIN. 4 ANCHORS PER JAMB-TYP.
 RUNNER

DOOR LOCATION DETAIL
SCALE: N.T.S.

Labels for Door Location Detail:
 1'-6" CLR. MIN. IF BOTH LATCH AND CLOSER ON DOOR
 4" MIN. WALL CLEAR
 1'-0" CLR. MIN. IF BOTH LATCH AND CLOSER ON DOOR

WALL BRACING DETAIL
SCALE: N.T.S.

Labels for Wall Bracing Detail:
 1 1/2" CHANNEL OR STEEL STUD BRACING @ 4' O.C.
 TOP RUNNER
 LINE OF CEILING
 STUD PARTITION AS SCHEDULED SEE PLAN FOR HEIGHT AND LOCATION

ISOMETRIC VIEW

Labels for Isometric View:
 4" WIDE BATTER STRIP AT EACH ARMORCORE SEAM
 STEEL OR WOOD STUDS, AS SPECIFIED
 ARMORCORE® BULLET RESISTANT PANEL
 DRYWALL/MILLWORK SEAM TO BE PLACED OFFSET FROM ARMORCORE PANEL
 DRYWALL/MILLWORK AS SPECIFIED
 O.C.
 2'-0"

VERIFY IF NEEDED



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

[illegible]

CONSULTANTS

**WARREN COUNTY
CAREER CENTER
MEDICAL ACADEMY**



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

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MIAMI BEACH, OHIO 45342
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www.levin-porter.com
Levin Porter Associates Inc. dba Levin Porter Architects



WALL TYPES

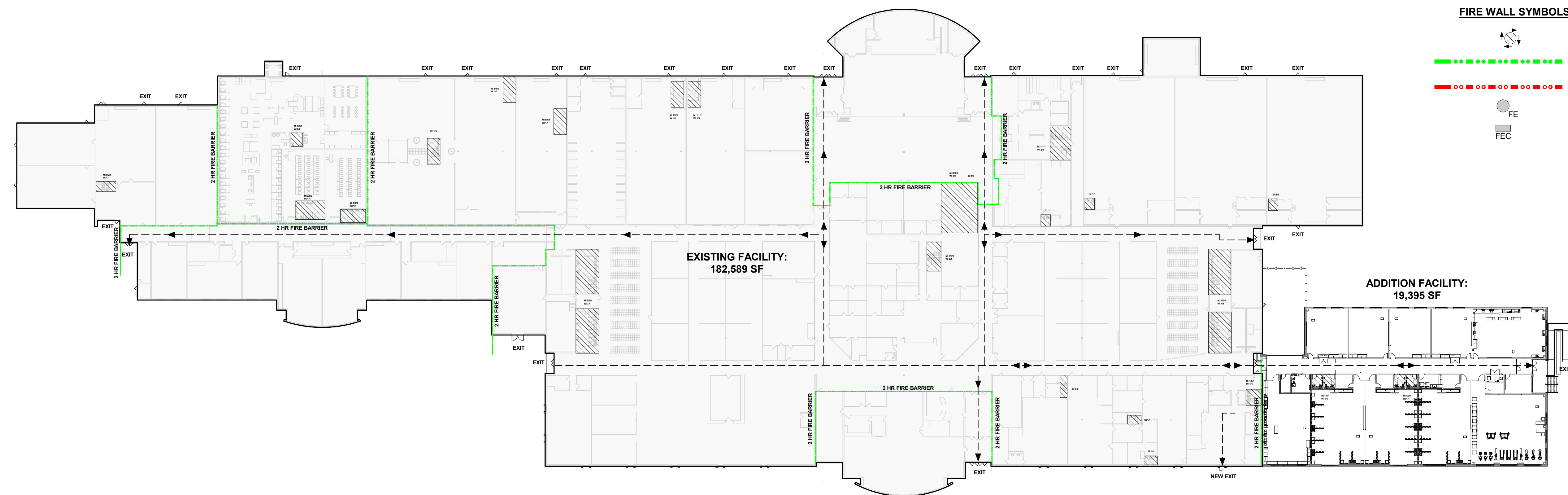
G003

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.

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) x 0.15 in / occupant = 59.85 Inches Required

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

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



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Author
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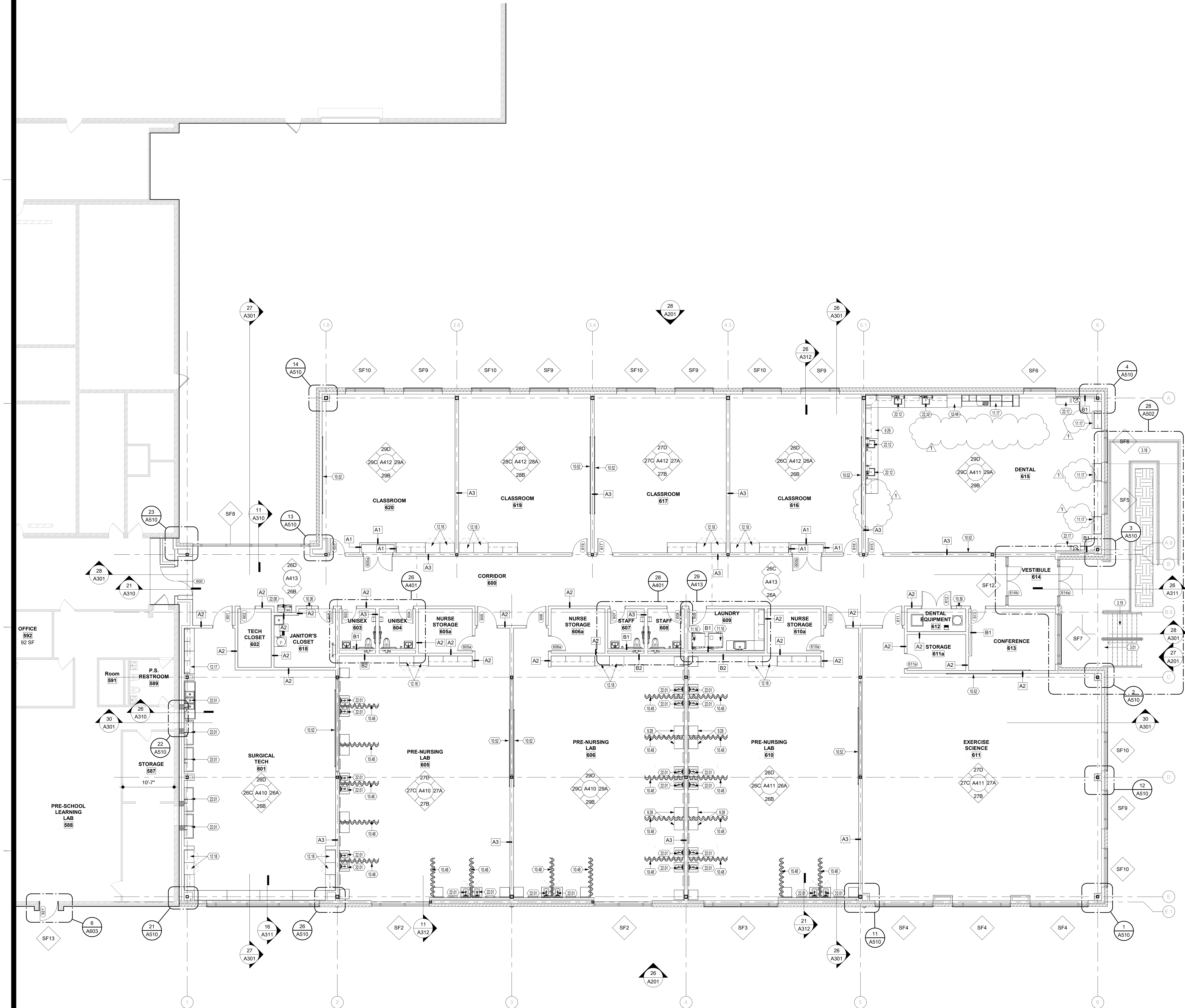
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LIFE SAFETY PLAN

G004

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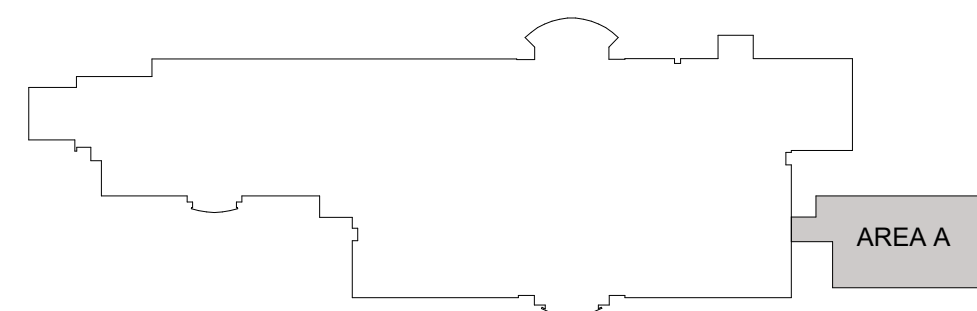
26 ENLARGED NOTED FLOOR PLAN
SCALE | 1/8" = 1'-0"

GENERAL NOTES - FLOOR PLAN

- SEE SHEET G002 FOR TYPICAL MOUNTING HEIGHTS.
- ALL TWO-SIDED NEW INTERIOR PARTITIONS ARE A-1 UNLESS NOTED OTHERWISE.
- COORDINATE FINAL PLACEMENT OF ALL WALL MOUNTED EQUIPMENT WITH SIGNAGE.
- 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.
- ALL WALLS ARE FULL HEIGHT TO DECK ABOVE, UNLESS NOTED OTHERWISE.
- CG = CORNERGUARD MOUNTED DIRECTLY ABOVE THE BASE. CORNER GUARDS TO BE INSTALLED WHERE NOTED.
- 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.
- FOR FURNITURE LAYOUT, SEE FURNITURE PLAN.
- FOR WINDOW ELEVATIONS, SEE GLAZING SHEET

KEYNOTES

- NEW CONCRETE FLOOR SYSTEM. SEE STRUCTURAL DRAWINGS.
- ADA CONCRETE RAMP AND ANODIZED ALUMINUM HANDRAIL.
- CONCRETE STAIRS.
- SOLID SURFACE COUNTERTOP. SEE SCHEDULE.
- EPOXY COUNTERTOP. SEE SCHEDULE.
- FIRE EXTINGUISHER FULLY RECESSED CABINET.
- CEILING MOUNTED ALUMINUM TRACK AND CURTAIN SYSTEM.
- 4' X 16" MAGNETIC PORCELAIN WHITE BOARD.
- WASHER/DRYER. SEE ELECTRICAL/PLUMBING DRAWINGS.
- RELOCATED EXISTING DENTAL CASEWORK.
- SOLID SURFACE COUNTERTOP WITH CONCEALED SUPPORT BRACKETS.
- FULL-HEIGHT PLASTIC LAMINATE STORAGE CABINET.
- SOLID SURFACE COUNTERTOP AND UNDERMOUNT SINK, WITH PLASTIC LAMINATE SINK BASE.
- H-Low DRINKING FOUNTAIN WITH BOTTLE FILLERS PER ADA GUIDELINES. SEE PLUMBING DRAWINGS.
- UNDERMOUNT STAINLESS SINK. SEE PLUMBING DRAWINGS.
- DENTAL WORK STATION. SEE PLUMBING DRAWINGS.



KEY PLAN



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**WARREN COUNTY
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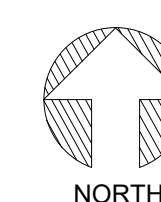
FIRST FLOOR PLAN

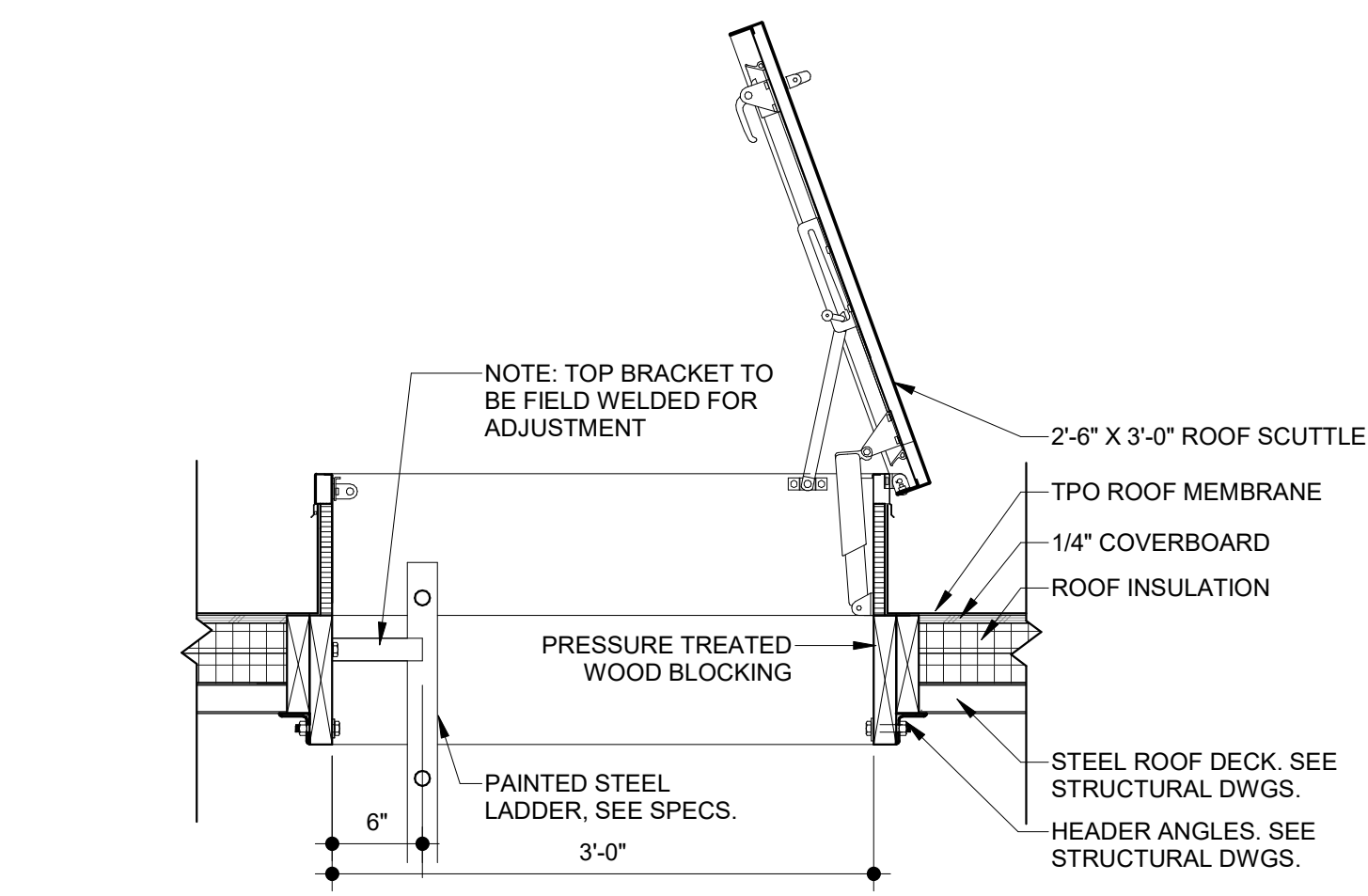
A101

- 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.

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
10.48 CEILING MOUNTED ALUMINUM TRACK AND CURTAIN SYSTEM.
10.50 ACCESS PANEL WITH SCREWDRIWER LATCH.
10.51 24" X 24" ACCESS PANEL WITH LOCK. PAINT TO MATCH CEILING.
12.05 MANUAL ROLLER SHADE WITH FULL BLACKOUT PANEL.
26.27 6" RECESSED CAN. SEE ELECTRICAL DRAWINGS.

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





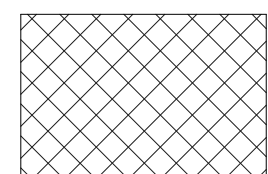
3 ROOF ACCESS LADDER DETAIL

REFER TO PME DRAWINGS FOR ROOF MOUNTED EQUIPMENT.

COORDINATE RIDGE AND VALLEYS WITH STRUCTURAL DRAWINGS. MAINTAIN MINIMUM 1/4" PER FOOT SLOPE.

COORDINATE ROOF PENETRATIONS WITH PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS.

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.

33 ROOF DRAIN AND OVERFLOW DRAIN
34 TPO ROOFING SYSTEM OVER RIGID POLYISO INSULATION. PROVIDE COMPLETE
35 ROOFING SYSTEM AND FLASHING PER SPEC IN ACCORDANCE WITH
36 MANUFACTURER'S REQUIREMENTS.
37 PRE-FINISHED MEAL COPING.
38 2" EXPANSION JOINT WITH PRE-FINISHED CAP FLASHING.
39 ROOF TOP MECHANICAL EQUIPMENT ON INTEGRAL CURB. SEE MECHANICAL
40 DRAWINGS.
41 NEW PRE-FINISHED MEAL COPING PARAPET CAP OVER EXISTING MASONRY
42 PARAPET. PROVIDE FLASHING, SEALANTS, AND TRANSITION DETAILS AS
43 REQUIRED FOR A WEATHER-TIGHT CONDITION. I/E NEW PARAPET
44 CONSTRUCTION INTO EXISTING TRANSITION WHERE REQUIRED.
45 EXISTING EMERGENCY OVERFLOW SCUPPER TO REMAIN.
46 30" X 36" ROOF HATCH. REFER TO DETAILS.

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STATE OF OHIO
MARK
C.
WISEMAN
13215
REGISTERED ARCHITECT

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

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**WARREN COUNTY
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09.15.2026

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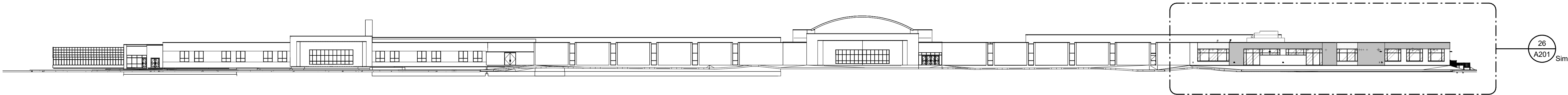


ROOF PLAN

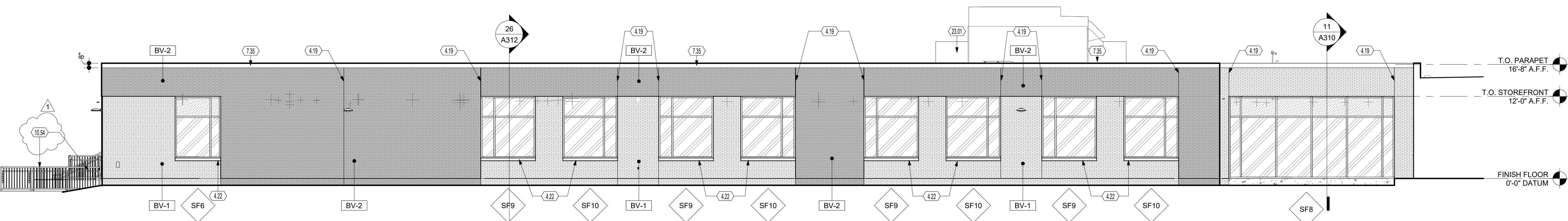
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26 ROOF PLAN

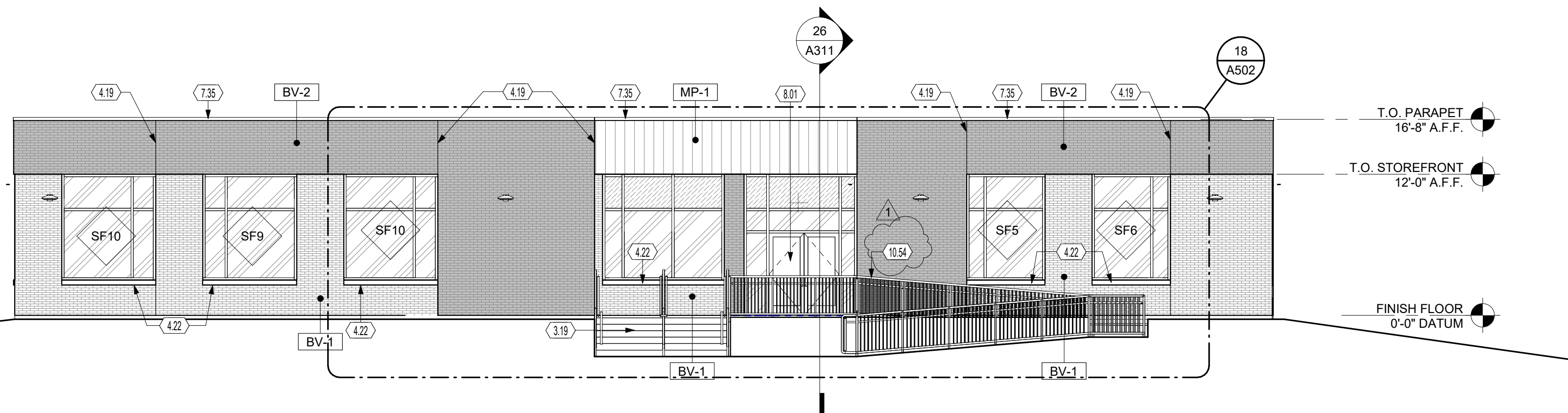
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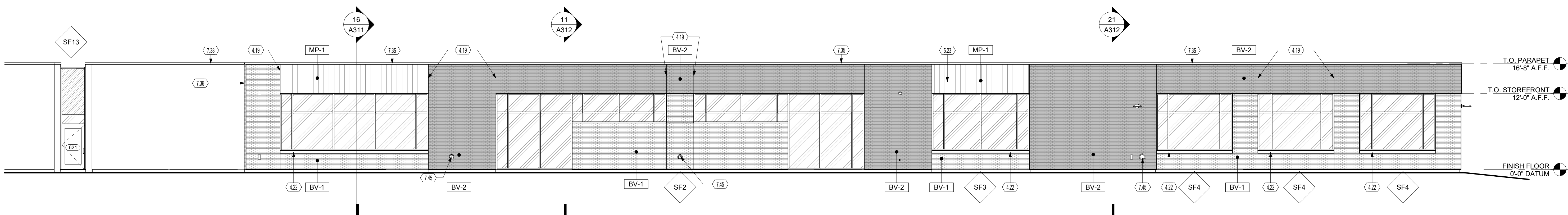
30 OVERALL SOUTH ELEVATION
SCALE | 1" = 40'-0"



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.
4.19 BRICK VENEER CONTROL JOINT.
4.22 LIMESTONE WINDOW SILL.
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.
10.54 ALUMINUM RAILING.
23.01 ROOF TOP HVAC, SEE MECHANICAL DRAWINGS.

GLAZING LEGEND

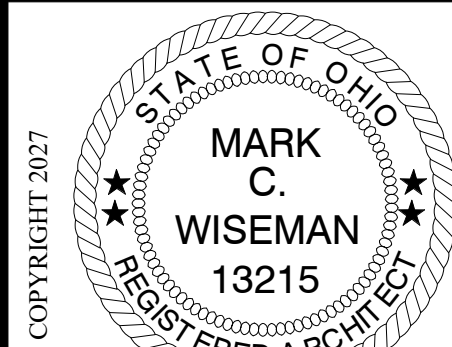
SCALE | 1/8" = 1'-0"

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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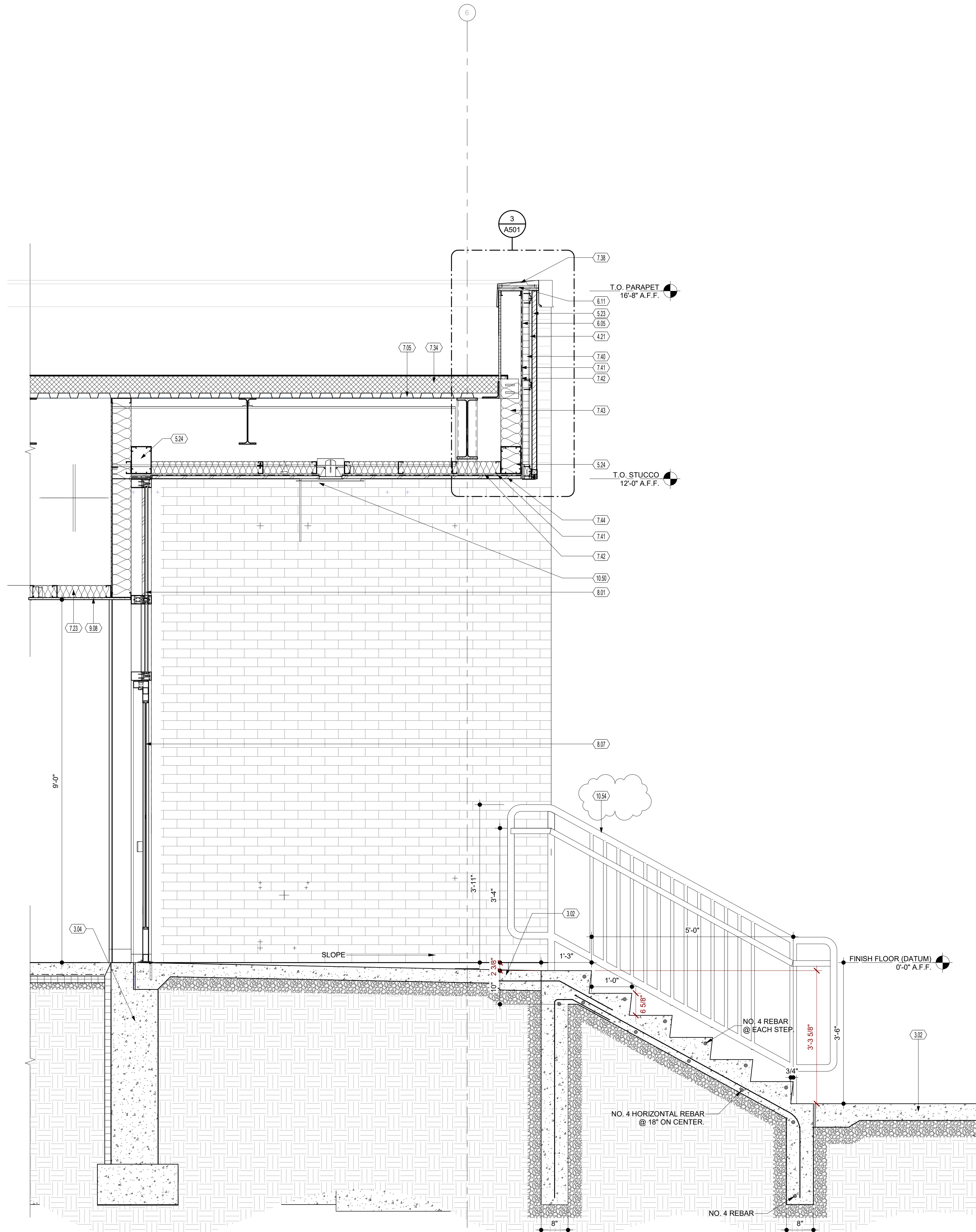
EXTERIOR
ELEVATIONS

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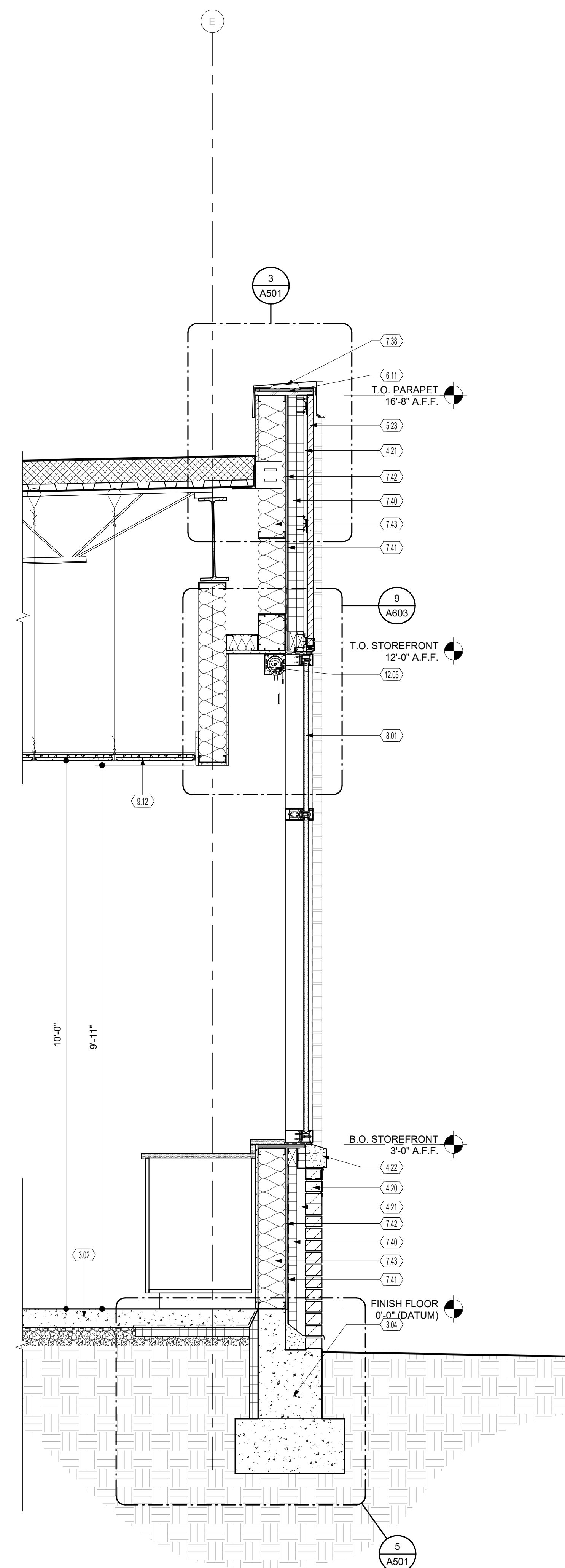
26 WALL SECTION @ NORTH EAST ENTRANCE

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



16 WALL SECTION @ SURGICAL TECH

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.
- 5.23 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 TPO 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 FLASHINGS, 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.
- 7.44 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.
- 10.54 ALUMINUM RAILING.
- 12.05 MANUAL ROLLER SHADE WITH FULL BLACKOUT PANEL.



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WALL SECTIONS

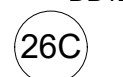
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SCALE | 1/4" = 1'-0"



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



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

- 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 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. PROVIDE ARCHITECTURAL DRAWINGS FOR WALL MOUNTED EQUIPMENT OR FURNISHINGS AND ADJUST LOCATION OF PME DEVICES AS REQUIRED.

WALL CABINETS

W # X

↑ ↑ ↑ ↑

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

BASE CABINETS

B # X

↑ ↑ ↑ ↑

MODIFIER
CABINET WIDTH (INCHES)
CABINET TYPE
CABINET HEIGHT

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

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.

11.07 4 x 16" MAGNETIC FRYING PAN. WHITE

11.17 RELOCATED EXISTING DENTAL CASEWORK.

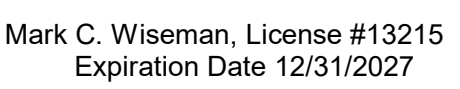
11.18 MEDICAL DEMONSTRATION HEADWALL. PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR

11.19 OTOSCOPE STATION. PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR

22.01 SOLID SURFACE COUNTERTOP AND UNDERMOUNT SINK. WITH PLASTIC

22.12 AMINATE SINK BASIN

22.12 UNDERMOUNT STAINLESS SINK. SEE PLUMBING DRAWINGS.

[illegible]

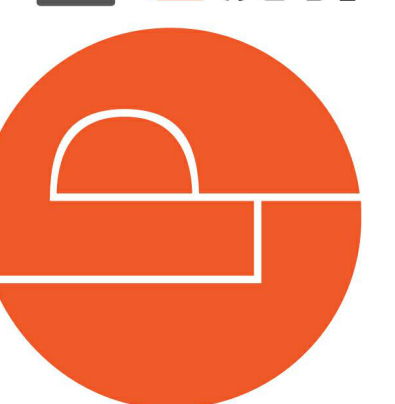
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**WARREN COUNTY
CAREER CENTER
MEDICAL ACADEMY**



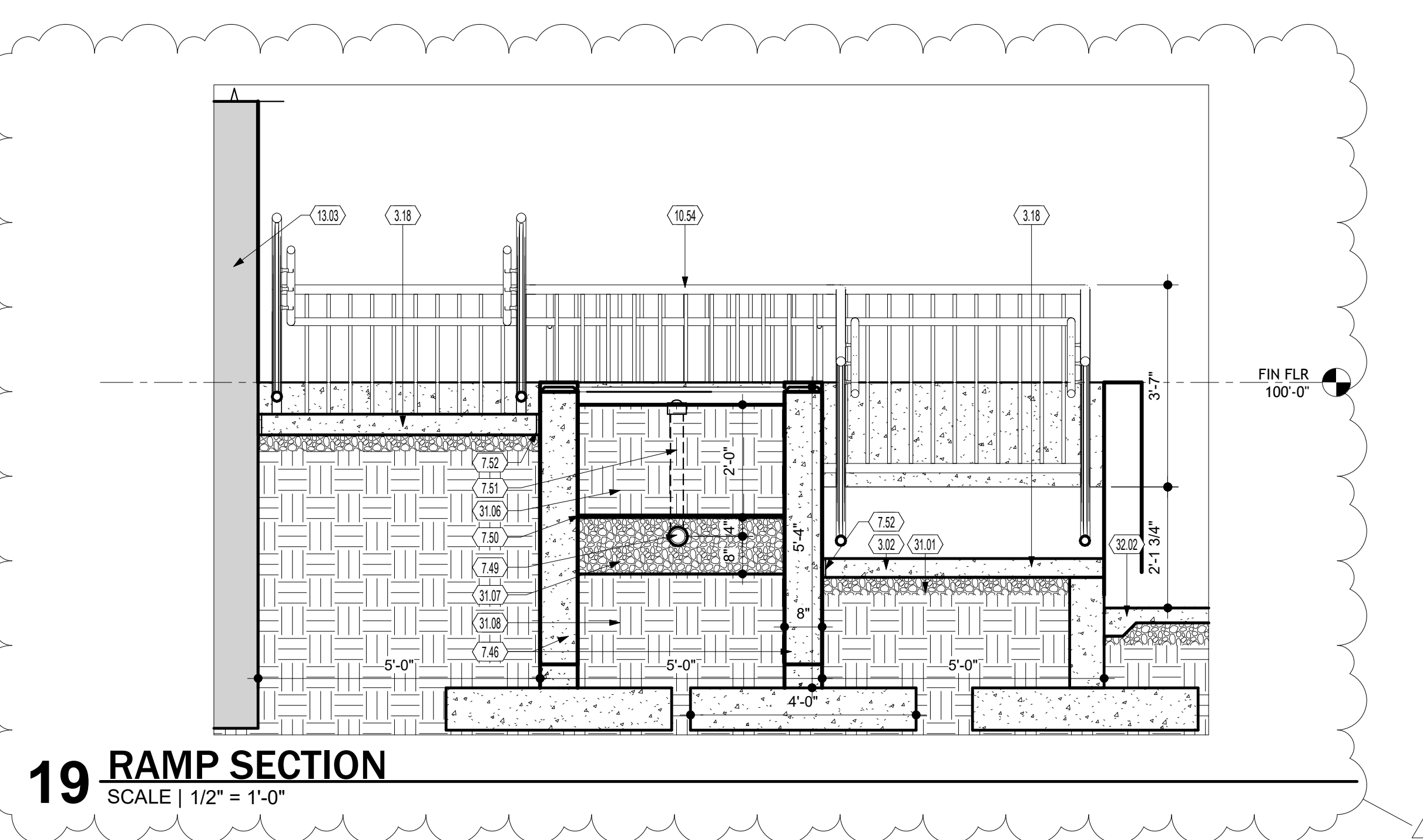
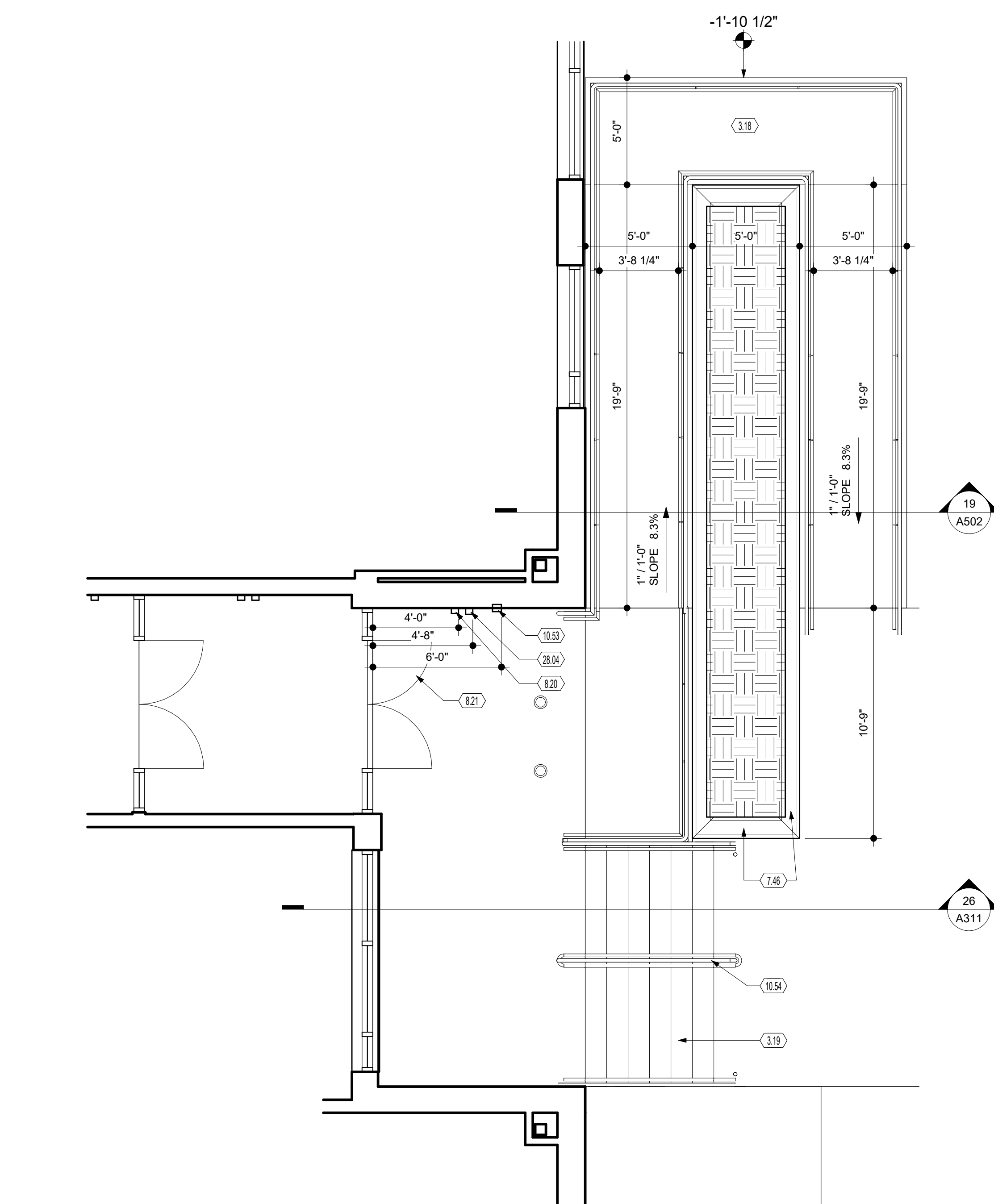
PROJECT
#263306.00
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Checker
DRAWN BY:
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INTERIOR ELEVATIONS

A411



- # KEYNOTES
- | | |
|-------|--|
| 3.02 | NEW SLAB ON GRADE. REFER TO STRUCTURAL DRAWINGS FOR REINFORCEMENT. |
| 3.18 | ADA CONCRETE RAMP AND ANODIZED ALUMINUM HANDRAIL. |
| 3.19 | CONCRETE STAIRS. |
| 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 DOWLED 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 | RECESSED KNOB 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]

CONSULTANTS

**WARREN COUNTY
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EXTERIOR DETAILS

A502

ROOM		DOOR					FRAME			DETAILS			DOOR -		FIRE RATING	ACCESS CONTROL	NOTES
DR #	#	TYPE	WIDTH	HEIGHT	THICK	MATERIAL	FINISH	TYPE	MATERIAL	FRAME FINISH	HEAD	JAMB	HARDWARE SET				
600	600	DF	6'-0"	7'-0"	1 3/4"	HM	PNT-7	F1	HM	PNT-7	28	27	10		90 MIN	NO	MAGNETIC HOLD OPEN - W/FIRE ALARM RELEASE. FULL EGRESS MAINTAINED
600a	600	DF	6'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	6		N	NO	
600b	600B	DF	6'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	8		N	NO	
601	601	VG	4'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	1		N	YES	
602	602	F	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	2		N	YES	
603	603	F	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	5		N	YES	
604	600	F	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	5		N	YES	
605	600	VG	4'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	1		N	YES	
605a	605a	F	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	4		NO	N	
606	600	VG	4'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	1		N	YES	
606a	606a	F	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	4		N	NO	
607	607	F	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	5		N	YES	
608	600	F	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	5		N	YES	
609	600	F	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	2		N	YES	
610	600	VG	4'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	1		N	YES	
610a	610a	F	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	4		N	NO	
611	611	HG	4'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	1		N	YES	
611a	611a	F	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	4		NO	N	
612	600	DF	6'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	9		N	NO	
613	613	HG	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	2		N	YES	
614a		DFG	5'-11 1/2"	7'-0"	1 3/4"	ALUM	CLR-1	SF	ALUM	CLR-1	30	28	7		N	YES	
614b	614	DFG	5'-11 1/2"	7'-0"	1 3/4"	ALUM	CLR-1	SF	ALUM	CLR-1	30	28	8		N	NO	
615	615	GG	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	2		N	YES	
616	600	GG	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	2		N	YES	
617	617	GG	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	2		N	YES	
618	618	F	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	3		N	NO	
619	600	GG	3'-0"</														

Diagram illustrating various door styles and their dimensions:

- F**: Standard door style.
- FG**: Door style with a height dimension of 7'-0".
- DFG**: Door style with a height dimension of 8'-0".
- DF**: Door style with a height dimension of 8'-0".
- DHG**: Door style with a height dimension of 8'-0".
- HG**: Door style with a height dimension of 8'-0".
- VG**: Door style with a height dimension of 8'-0" and a width dimension of 2'-6".

Labels and dimensions:

- SEE SCHEDULE**: Indicated above each door style.
- T**: Indicates tempered glass.
- 7'-0"**: Height dimension for FG.
- 8'-0"**: Height dimension for DFG, DF, DHG, HG, and VG.
- 2'-6"**: Width dimension for VG.

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

SEE SCHEDULE

2"

2"

2"

2"

SEE SCHEDULE

SEE SCHEDULE

SEE SCHEDULE

F1

F2

Figure 10 shows two elevation drawings of wall sections, SF1 and SF2, illustrating panel dimensions and heights.

SF1 (Left): This is a single-story wall section. The total height is 7'-0". The base height is 3'-0". The wall is composed of GL-1 panels. The dimensions are as follows:

- Top edge: 2 1/2" (left), 1'-7 1/4" (left), 2 1/2" (left), 6'-3 1/2" (left), 2 1/2" (left), 6'-3 1/2" (left), 2 1/2" (left), 1'-7 1/4" (left), 2 1/2" (left).
- Panel heights: 5'-8 1/4" (left), 2'-5 1/4" (left), 2'-5 1/4" (left), 2'-5 1/4" (left), 2'-5 1/4" (left).
- Panel widths: 6'-3 1/2" (left), 6'-3 1/2" (left), 6'-3 1/2" (left), 6'-3 1/2" (left), 6'-3 1/2" (left).

SF2 (Right): This is a two-story wall section. The total height is 12'-0". The base height is 3'-0". The wall is composed of GL-1 panels. The dimensions are as follows:

- Top edge: 2 1/2" (left), 1'-7 1/4" (left), 2 1/2" (left), 4'-9 1/2" (left), 2 1/2" (left), 1'-7 1/4" (left), 2 1/2" (left), 5'-4 1/2" (left), 2 1/2" (left), 5'-4 1/2" (left), 2 1/2" (left), 1'-7 1/4" (left), 2 1/2" (left).
- Panel heights: 5'-8 1/4" (left), 2'-5 1/4" (left), 2'-5 1/4" (left), 2'-5 1/4" (left), 2'-5 1/4" (left).
- Panel widths: 6'-3 1/2" (left), 6'-3 1/2" (left), 6'-3 1/2" (left), 6'-3 1/2" (left), 6'-3 1/2" (left).

- A. ALL VERTICAL DIMENSIONS ARE FROM TOP OF FINISHED SLAB.
- B. SEE SPECIFICATION FOR ALUMINUM WINDOW, STOREFRONT, AND CURTAIN WALL FINISHES.
- C. VERIFY ALL CONDITIONS PRIOR TO FABRICATION.
- D. ALL CURTAIN WALL MULLIONS ARE TO BE 7.5" X 2.5" U.N.O.
- E. ALL STOREFRONT MULLIONS ARE TO BE 4.5" X 2" U.N.O.

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

GL4 - 1/4" CLEAR GLASS (SF)

SP1 - INSULATED INFILL PANEL

- 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, 606, 606, 611, 611
1 EA BB-Bolt 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: Door Reader, Power Supply (Remote)
Operation: Door remains locked and locked unless credentials presented to reader. Proper credential activates electric strike which unlatches the door. Exterior locks 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, 609, 613,
3 EA Bus-Bit 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
credentials allow door to unlock and strike which unlatches the door. Exterior lock 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 BB-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

Hardware Set No.5
Single door (restrooms), Storage function with indicator.
Doors 803.604.607.608
3 EA BB-Bolt 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)
- 2 EA Astragal 550-NGP
- 1 EA Manual flush bolts 3913/3915 TRM top and bottom
- 1 EA Dust proof strike 3910 TRC
- 2 EA Overhead stop with hold-open OH902H ROM
- 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 Square 8310-853T
- 1 EA Threshold - ADA
- 1 EA Door contact

Note: Card Reader, Power Supply

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 without card will enable the automatic operator to open (interior is always enabled). Free egress at all times.

Hardware Set No. 8
Double aluminum entrance, interior.
Door: 614b

2	EA Continuous Hinge
1	EA Push/Pull set by door manufacturer - Passage
1	EA Astragal by door manufacturer
1	EA Closer with stop arm
1	EA Automatic operator
2	EA Push plate-wall 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 stroke 3910 TRM
2 EA Overhead stop with hold-open OH002H 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

Hardware Set No: T1
Single aluminum entrance, exterior.
Door: 621

- 1 EA Continuous Hinge x EPT
- 1 EA Rim Panic device, LD
- 1 EA SFIC Core (verify with existing)
- 1 Set Door pulls by manufacturer
- 1 EA Door sweep 200N
- 1 EA Weather strip kit by door manufacturer
- 1 EA Closer with stop arm
- 1 EA Threshold - ADA
- 1 EA Door contact

Note: Card Reader, Power Supply
Operation: Door is normally closed and locked. Presenting valid credential will unlock the door and enable entry. Free egress at all times.

1. THE COUNTY OF WARREN, AND THE CURRENT EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS (ODOT 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 ODOT CMS UNLESS NOTED OTHERWISE, IN THE CASE OF CONFLICTS BETWEEN THE ODOT CMS AND THE COUNTY OF WARREN REQUIREMENTS, THE COUNTY OF WARREN REQUIREMENTS SHALL PREVAIL.

11. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO THE OWNER FOR THE REGISTRY, MAINTENANCE AND ABANDONMENT OF ANY EXHAUSTIVE DEVICE USED IN CONSTRUCTION OF THIS PROJECT.
12. ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT AND/OR FACE OF CURB, UNLESS OTHERWISE NOTED.
13. ALL SITE SIGNAGE, STRIPING COLOR AND WIDTH SHALL BE PER THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
14. ALL EXISTING PAVEMENTS, WALKS, CURBS, ETC. SHALL BE FULL DEPTH SAWCUT BEFORE REMOVAL. IF FULL DEPTH FULL BUTT JOINT BETWEEN THE EXISTING PAVEMENT OR CURB AND THE PROPOSED PAVEMENT, THE DAMAGED AREA SHALL BE RECURT TO NEAT UNITS AS DIRECTED BY THE ENGINEER. PAYMENT FOR SAWCUTTING SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
15. THE CONTRACTOR SHALL FULL DEPTH SAWCUT EXISTING PAVEMENT TO PROVIDE A SMOOTH WEAR SURFACE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF CURB AND THE PROPOSED PAVEMENT. CONTRACTOR SHALL LOCATE SLOPE SLOPE 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.

1. CONTRACTOR TO REMOVE TREES AND CLEAR AREAS AS NECESSARY TO PERFORM ALL SITE WORK INCLUDING GRADING AND UTILITY WORK.
2. PROTECTION OF EXISTING TREES AND VEGETATION: PROTECT EXISTING TREES AND OTHER PLANTS AND VEG. IMMEDIATELY ADJACENT TO AND AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOKING OF TREES BY STOPPING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN DRIP LINE. EXCESSY FOOT OR VEHICLE TRAFFIC PATTERNED BY VEHICLES WITHIN DRIP LINE. PROVIDE TEMPORARY FENCES TO PROTECT TREES AND VEGETATION TO BE LEFT STANDING.
3. ALL ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS.
4. SITE BUILDING PAD EXCAVATION AND CONSTRUCTION TO BE PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. BUILDING PAD PREPARATION SHALL BEGIN BY CLEARING & STRIPPING TOPSOIL TO EXPOSE MATERIALS TO BE REMOVED WITHIN COMPACT BACKFILL MATERIAL AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER AND CONTRACTOR'S RECOMMENDATIONS. ALL BACKFILL MATERIAL MUST BE ACCEPTABLE TO THE GEOTECHNICAL ENGINEER.
5. ALL FILL UNDER PAVEMENT SHALL BE COMPACTED TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
6. THE CONTRACTOR IS RESPONSIBLE FOR IMPORTING AND EXPORTING SUITABLE SOIL MATERIALS AS NECESSARY TO CONSTRUCT THE SITE TO THE DESIGN GRADES.
7. THE CONTRACTOR SHALL IMPLEMENT ALL SOIL AND EROSION CONTROL PRACTICES REQUIRED BY COUNTY OF WARREN AND THE OHIO EPA.
8. ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF EXCAVATION AND ARE AT RISK OF EROSION ARE TO BE SOON COVERED BY TREE SEEDS AND MULCH AS SOON AS PRACTICAL. IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. IF NO SPECIFICATIONS ARE SUPPLIED, USE OYOT ITEM #69.
9. CONTRACTOR TO LAYOUT DESIGN PLAN FROM ARCHITECTURAL/FOUNDATION PLANS. CONCEIT PLAN

1. ALL DRAIN TIE AND STORM SEWERS DAMAGED, DISTURBED OR REMOVED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH THE SAME QUALITY TIE OR BETTER. MAJOR DRAINAGE MAINS DAMAGED OR REMOVED SHALL BE REPLACED WITH THE SAME QUALITY MAINS. ALL DRAINAGE MAINS SHALL BE REINSTALLED TO THE EXISTING DEPTH AND SHALL BE CONNECTED TO THE CURB SUBRAN, STORM SEWER SYSTEM OR OUTLETED INTO THE ROADWAY DITCH AS APPLICABLE. REPLACED DRAIN TIE/STORM SEWER SHALL BE LAID ON COMPACTED BEDDING TO A MINIMUM OF 12" TO ENSURE PROPER 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.
2. ALL EXISTING UTILITIES KNOWN TO EXIST HAVE BEEN SHOWN ON THESE PLANS IN THEIR APPROXIMATE LOCATION, PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTH MOVING OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES SHOWN. THE CONTRACTOR IS ALSO RESPONSIBLE FOR THE PROTECTION AND/OR RELOCATION OF ANY UTILITIES THAT MAY EXIST AND NOT SHOWN.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF THE RELOCATION OF ANY UTILITIES FOR ANY UTILITIES AS REQUIRED BY THE PLAN WITH THE OWNER OF THE AFFECTED UTILITY.
4. 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 COMMENCEMENT OF CONSTRUCTION SHALL BE REQUIRED.
5. 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 SAID SEWERS, ALL FILLS SHALL BE CONTROLLED, COMPACTED, AND INSPECTED BY AN APPROVED TESTING LABORATORY OR ENGINEER.

6. CONTRACTOR TO REPLACE ANY PAVEMENT OR UTILITIES DAMAGED WHICH ARE NOT SPECIFIED TO BE REMOVED ON THESE PLANS.
7. ALL CATCH BASINS PLACED WITHIN THE PAVEMENT SHALL HAVE HEAVY DUTY FRAMES AND GRATES. CATCH BASINS WITH AN ACCESSIBLE ROUTE SHALL CONFORM TO ADA REQUIREMENTS.
8. ADJUST ALL EXISTING CASTINGS AND CLEANSOUTS WITHIN PROJECT AREA TO GRADE AS REQUIRED.
9. ALL CATCH BASINS WITH DEPTH GREATER THAN 6" SHALL BE PROVIDED AREA WITH STEPS. STEPS SHALL MEET THE REQUIREMENTS OF ODOT ITEM 611.
10. ALL STORM AND SANITARY SEWER MANHOLES WITH A DEPTH GREATER THAN 6" SHALL BE PROVIDED WITH STEPS. STEPS SHALL MEET THE REQUIREMENTS OF ODOT ITEM 611.
11. DISTANCES SHOWN FOR BOTH SANITARY AND STORM SEWER PIPES ARE MEASURED FROM CENTER OF STRUCTURE. THE CONTRACTOR SHALL PROVIDE THE CENTERLINE AND BUILT-OUT CUT LENGTH COORDINATES FOR STORM AND SANITARY STRUCTURES ARE SHOWN TO THE CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.
12. IMMEDIATELY AFTER PLACEMENT OF ANY CONDUITS, THE CONTRACTOR SHALL CONSTRUCT THE END WALLS AND END MANHOLES REQUIRED BY THE PLANS AT BOTH THE OUTLET AND INLET ENDS. THIS SHALL INCLUDE HEADWALLS, CONCRETE RIP RAP, ROOF CHANNEL PROTECTION, SODDING, POURING DOWNS, MUDGING FLOW SEALS, ETC.
13. 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.
14. 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 DRAINAGE BASIN.
15. ROOF DRAINS, FOUNDATION DRAINS AND ALL OTHER CLEAR WATER CONNECTIONS TO THE SANITARY SEWER SYSTEMS ARE PROHIBITED.
16. SITE CONTRACTOR SHALL PICK UP ALL UTILITIES, WITH THE EXCEPTION OF DOWNSPOUTS, 5' OUTSIDE BUILDING WALL. COORDINATE WITH CONSTRUCTION MANAGER.
17. ALL STORM STRUCTURES ARE ODOT TYPES UNLESS OTHERWISE INDICATED.

18. STORM SEWER PIPE LABELED "STM" SHALL BE ONE OF THE FOLLOWING: PIPE SDR-35 PER ODOT ITEM 707.45; PIPE PROFILE PIPE PER ODOT ITEM 707.43, HIGH DENSITY POLYETHYLENE PER ODOT ITEM 707.45; ALUMINUM CORRUGATED METAL, ODOT ITEM 707.01, 707.02, OR REINFORCED CONCRETE PIPE ODOT ITEM 708.02 CLASS IV. STORM SEWER PIPE LABELED "RCP" SHALL BE REINFORCED CONCRETE PIPE, ODOT ITEM 708.02 CLASS IV. ALL STORM IS TO BE INSTALLED PER ODOT ITEM 611. ALL STORM PIPE USED MUST HAVE A MANUFACTURER SPECIFIED FRICTION FACTOR OF 0.013 (N4(0.013)) OR LESS.
- 811.org**
You Dig
- PLOTTED FROM A
RECORDED INFORMATION AND
UNDERGROUND STRUCTURES AND
USE LOCATIONS AND THE
OF UNDERGROUND UTILITIES
NOTIFY THE OHIO UTILITY
OR 1-800-363-2784 BEFORE ANY
CONSTRUCTION ACTIVITY.

-

N.T.S.

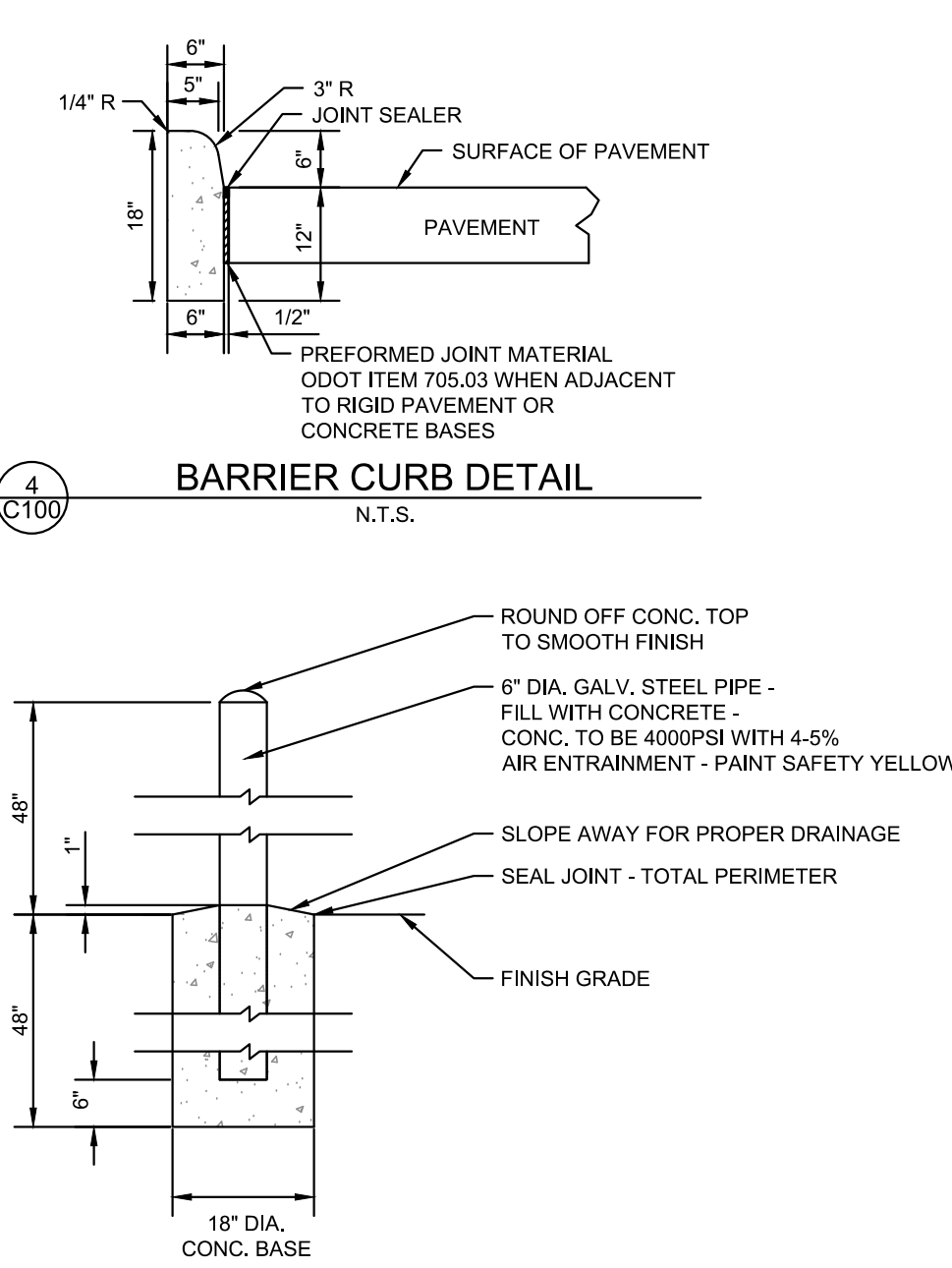
-
- The diagram shows a horizontal beam with six points labeled 1 through 6. Points 1, 2, and 3 are located on the top surface of the beam, while points 4, 5, and 6 are located on the bottom surface. A vertical crack is depicted between points 3 and 4, extending through the entire thickness of the beam. The beam is supported by a hatched base.

N.T.S.

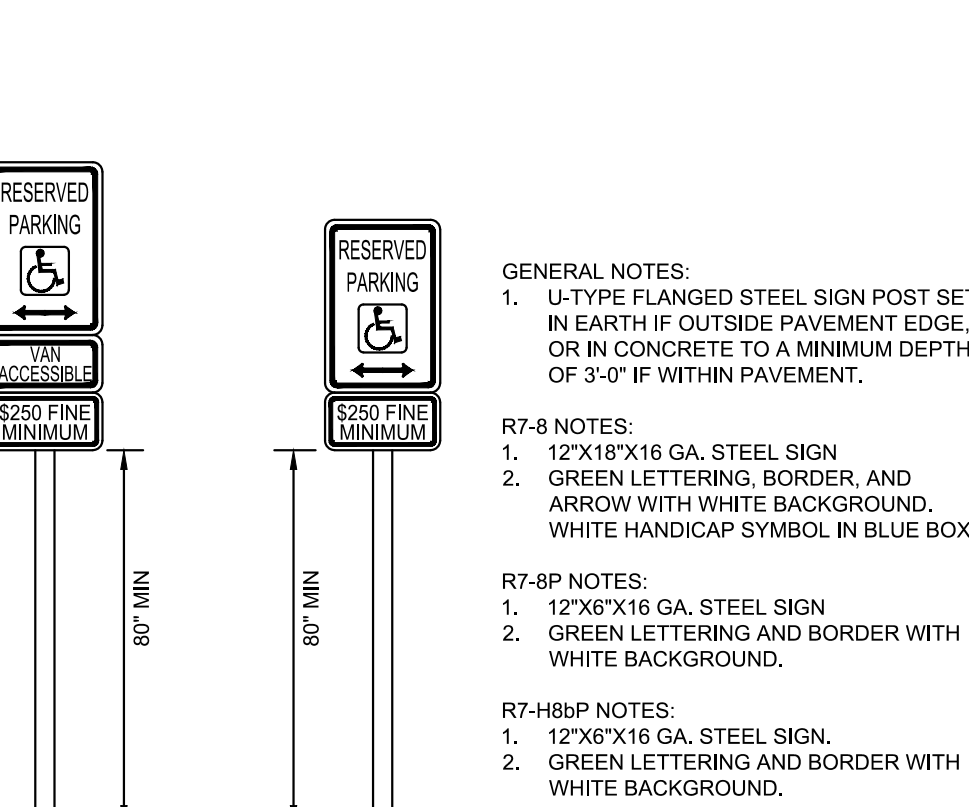
-
- The image contains four technical drawings of curb and gutter details:
- CONTROL JOINT:** A cross-section showing a curb with a 3/8" height and a 1 1/2" width. A WWR (Water-Resistant Rubber) is shown at the base of the curb.
 - EXPANSION JOINT:** A cross-section showing a curb with a 12" height and a 2" ZYP (Zinc-Plated Yellow Paint) coating. A JOINT SEALANT and EXPANSION JOINT MATERIAL are shown at the base of the curb. A WWR is also shown.
 - WALK EDGE AT BUILDING LINE:** A cross-section showing a curb with a 12" height and a 3/8" width. A JOINT SEALANT and EXPANSION JOINT MATERIAL are shown at the base of the curb. A WWR is also shown.
 - WALK TYPICAL SECTION:** A cross-section showing a curb with a 6" height and a 6" width. A WWR is shown at the base of the curb. The curb is labeled "6x6 W1.4WV1.4 WWR". The slope is labeled "SLOPE". The curb is labeled "6\" ODOT ITEM 504".

- NOTES:
1. INSTALL EXPANSION JOINTS AT 30' OC MAXIMUM AND WHERE SLAB ABUTS STRUCTURES, WHERE NEW WALK ABUTS ADJOINING WALK, SAWCUT EXISTING WALK TO NEAREST JOINT, INSTALL EXPANSION JOINT, EXPANSION JOINTS SHALL BE 1/2" DEEP BY DEPTH OF SLAB, SEAL ALL EXPANSION JOINTS.
 2. INSTALL CONTROL JOINTS AT 6' OC MAXIMUM, CONTROL JOINTS SHALL BE 3/8" DEEP BY 1 1/2" DEEP AND TOOLED, SAWED JOINTS ARE NOT PERMITTED.
 3. WALK SHALL HAVE A MINIMUM CROSS SLOPE OF 1.00%. MAXIMUM CROSS SLOPE OF 2.00%.
 4. WATER AND UTILITY BOXES IN THE WALK AREA SHALL BE ADJUSTED FLUSH WITH THE FINAL SURFACE.
 5. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DETAIL AT ALL BUILDING DOORS.
 6. JOINTING PLANS MUST BE SUBMITTED FOR APPROVAL.

N.T.S.

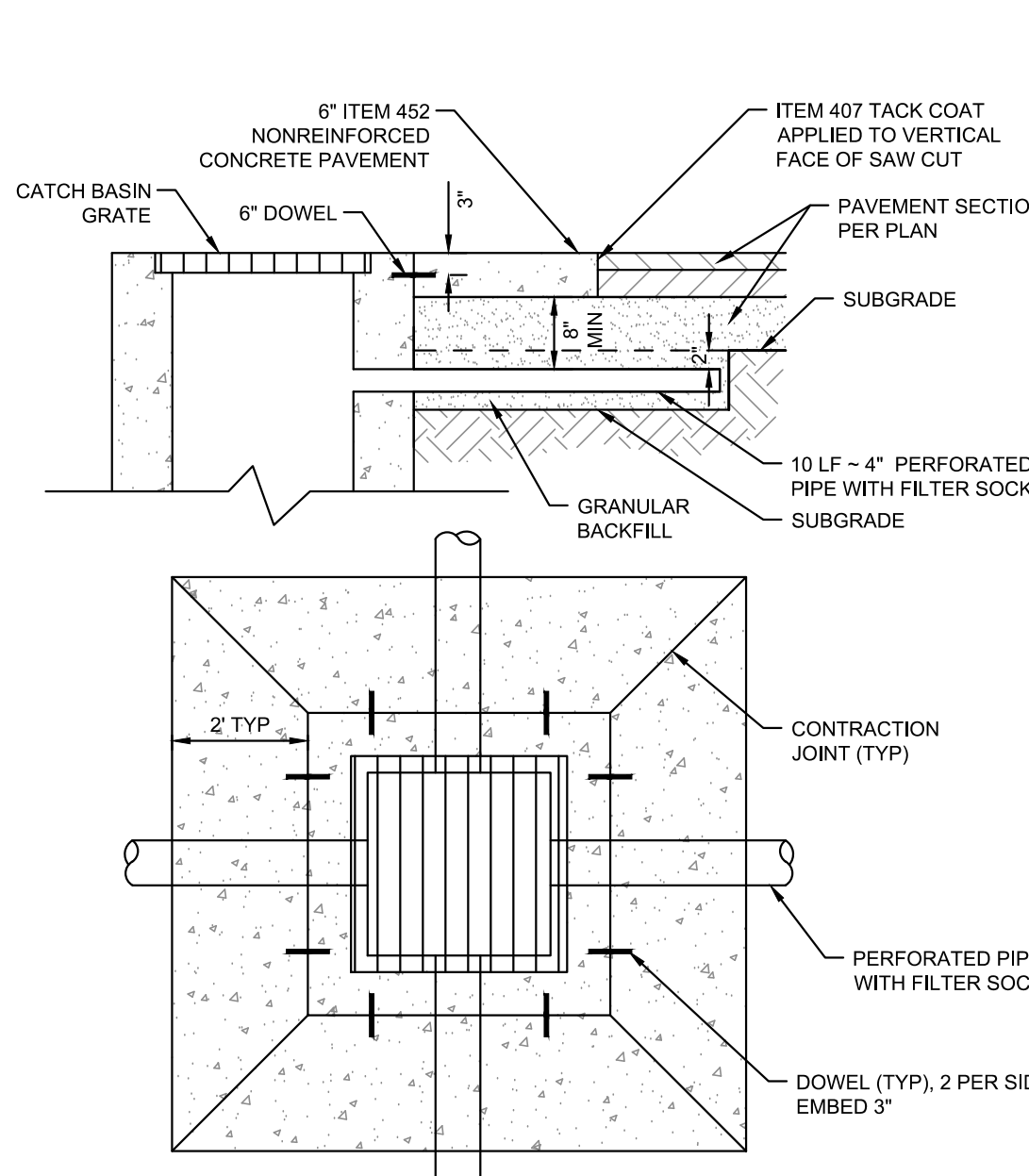


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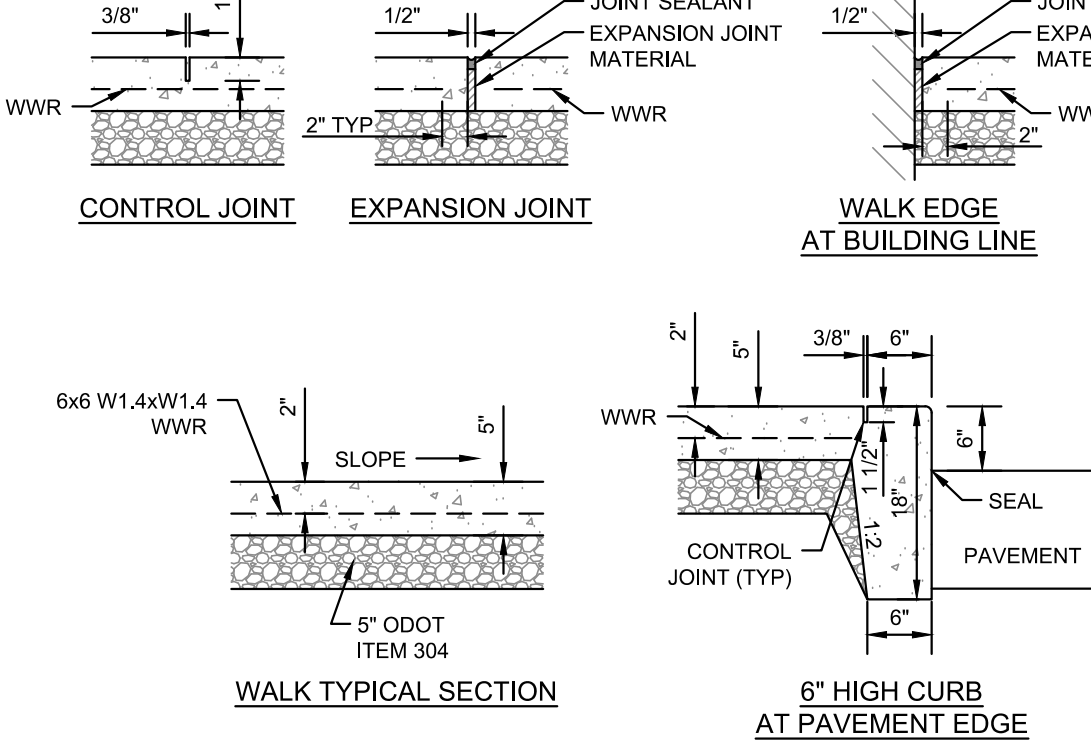
- GENERAL NOTES:**
1. U-TYPE FLANGED STEEL SIGN POST SET IN EARTH IF OUTSIDE PAVEMENT EDGE, OR IN CONCRETE TO A MINIMUM DEPTH OF 3'-0" IF WITHIN PAVEMENT.
- R-7-R NOTES:**
1. 12"x6"x16 GA. STEEL SIGN
 2. GREEN LETTERING, BORDER, AND ARROW WITH WHITE BACKGROUND, WHITE HANDICAP SYMBOL IN BLUE BOX
- R-7-RP NOTES:**
1. 12"x6"x16 GA. STEEL SIGN
 2. GREEN LETTERING AND BORDER WITH WHITE BACKGROUND.
- R7-R8bP NOTES:**
1. 12"x6"x16 GA. STEEL SIGN.
 2. GREEN LETTERING AND BORDER WITH WHITE BACKGROUND.

NTS



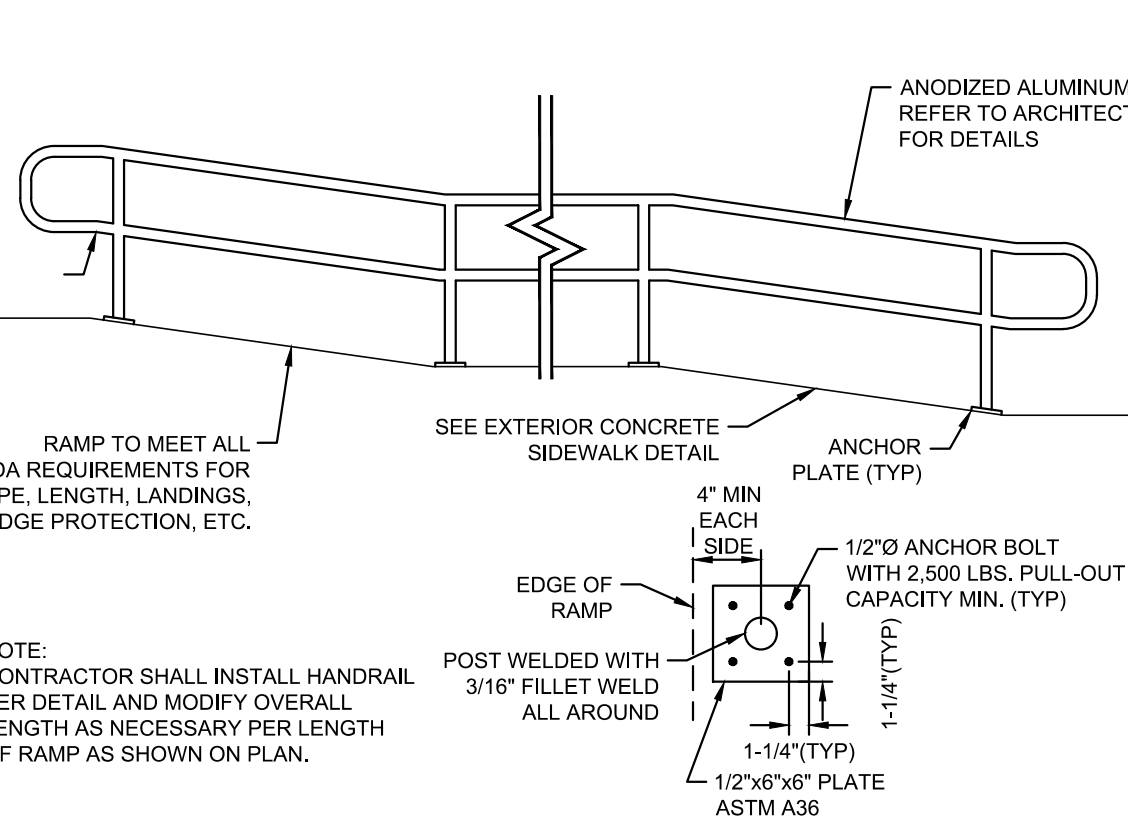
- NOTE:

N.T.S.

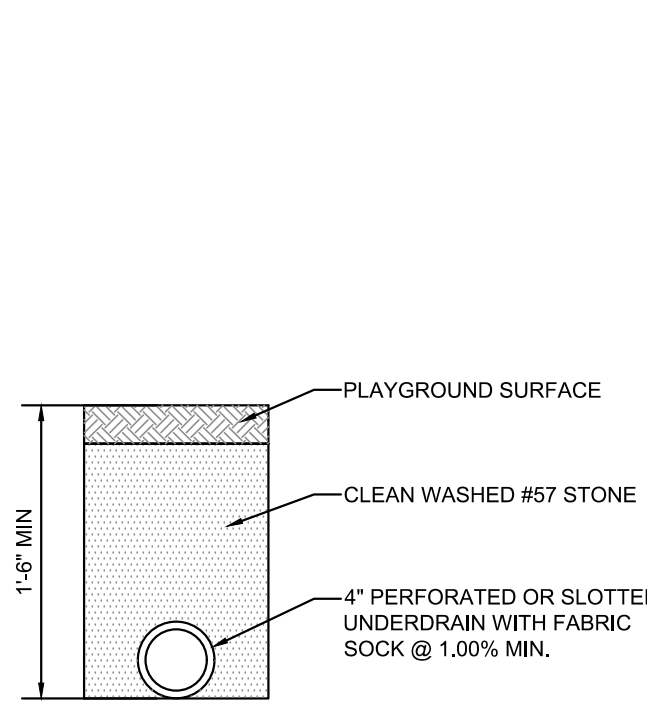


- NOTES:
1. INSTALL EXPANSION JOINTS AT 30' OC MAXIMUM AND WHERE SLAB ABUTS STRUCTURES, WHERE NEW WALK ABUTS ADJOINING WALK, SAWCUT EXISTING WALK TO NEAREST JOINT, INSTALL EXPANSION JOINT, EXPANSION JOINTS SHALL BE 1/2" WIDE BY DEPTH OF SLAB, SEAL ALL EXPANSION JOINTS.
 2. INSTALL CONTROL JOINTS AT 6' OC MAXIMUM, CONTROL JOINTS SHALL BE 3/8" WIDE BY 1 1/2" DEEP AND TOOLED, SAWED JOINTS ARE NOT PERMITTED.
 3. WALK SHALL HAVE A MINIMUM CROSS SLOPE OF 1.00%. MAXIMUM CROSS SLOPE OF 2.00%.
 4. WATER AND UTILITY BOXES IN THE WALK AREA SHALL BE ADJUSTED FLUSH WITH THE FINAL SURFACE.
 5. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DETAIL AT ALL BUILDING DOORS.
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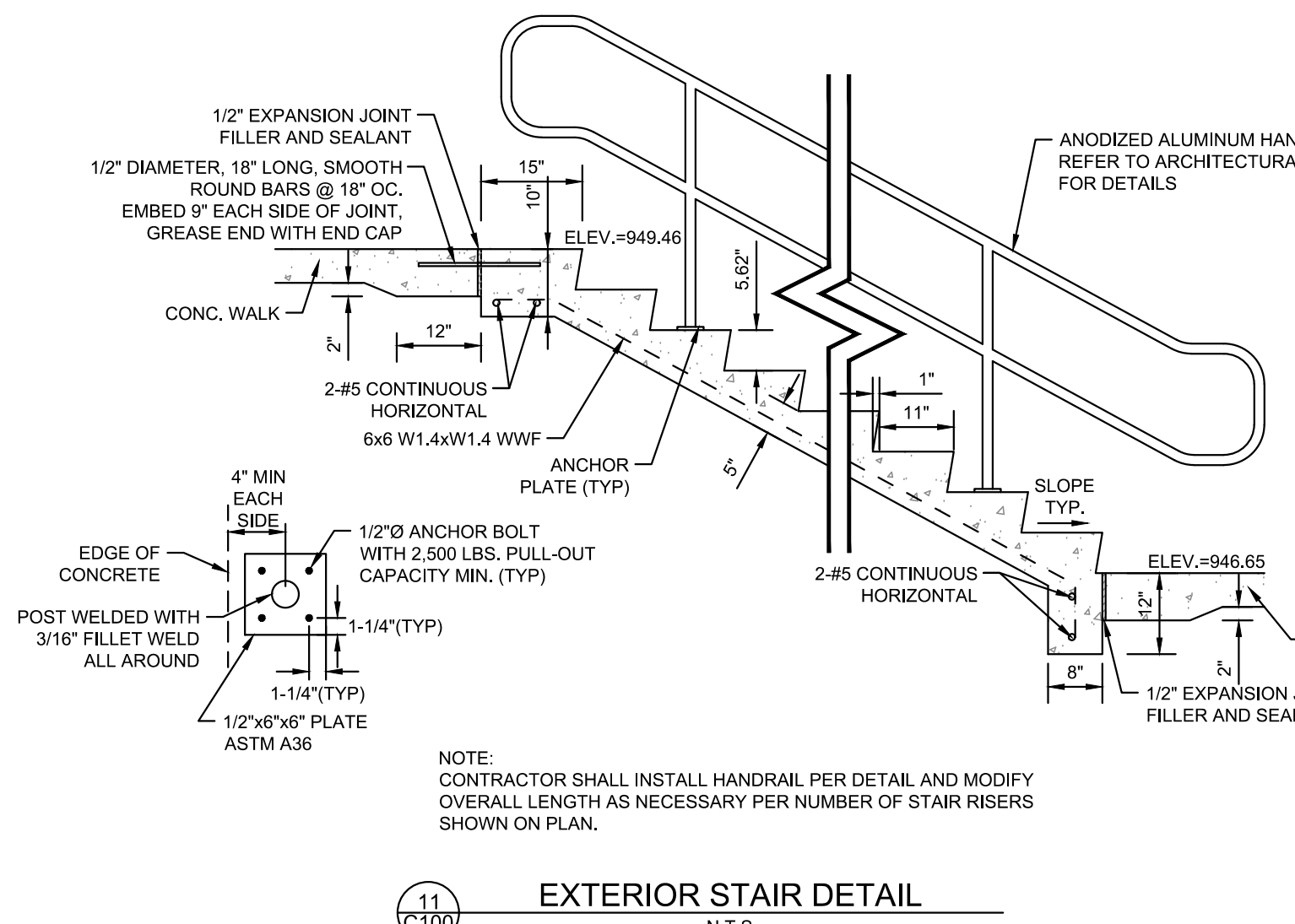
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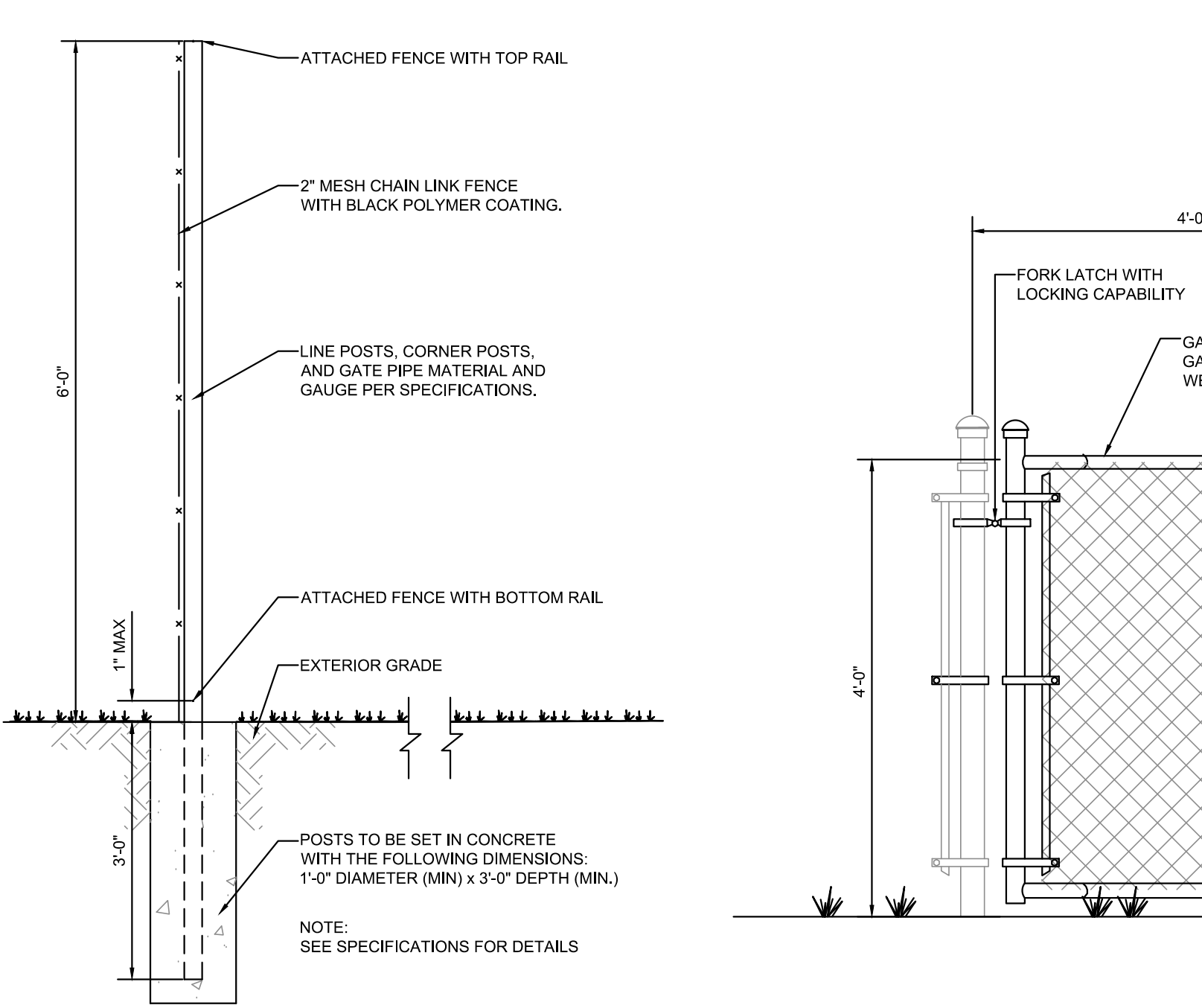
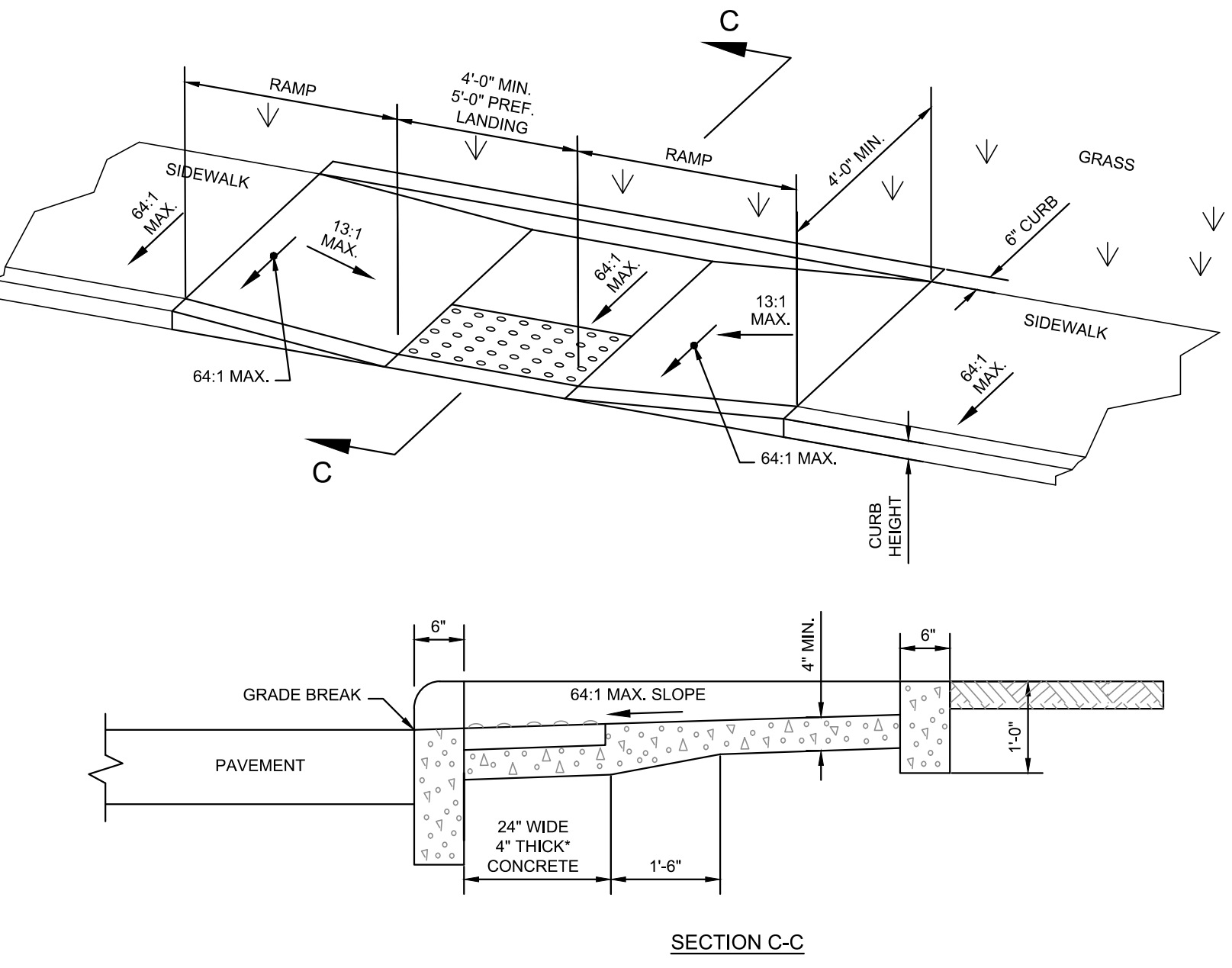
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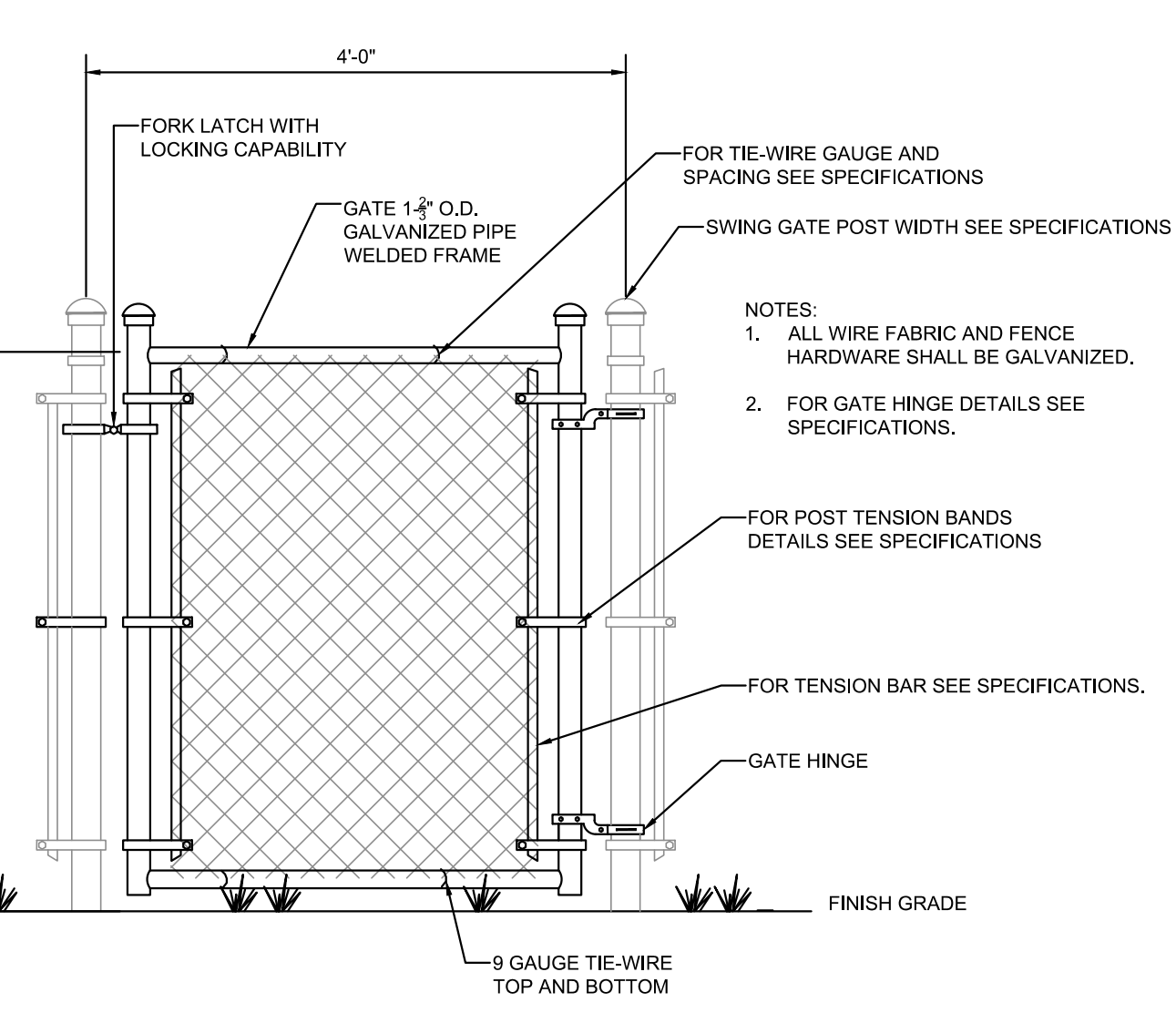
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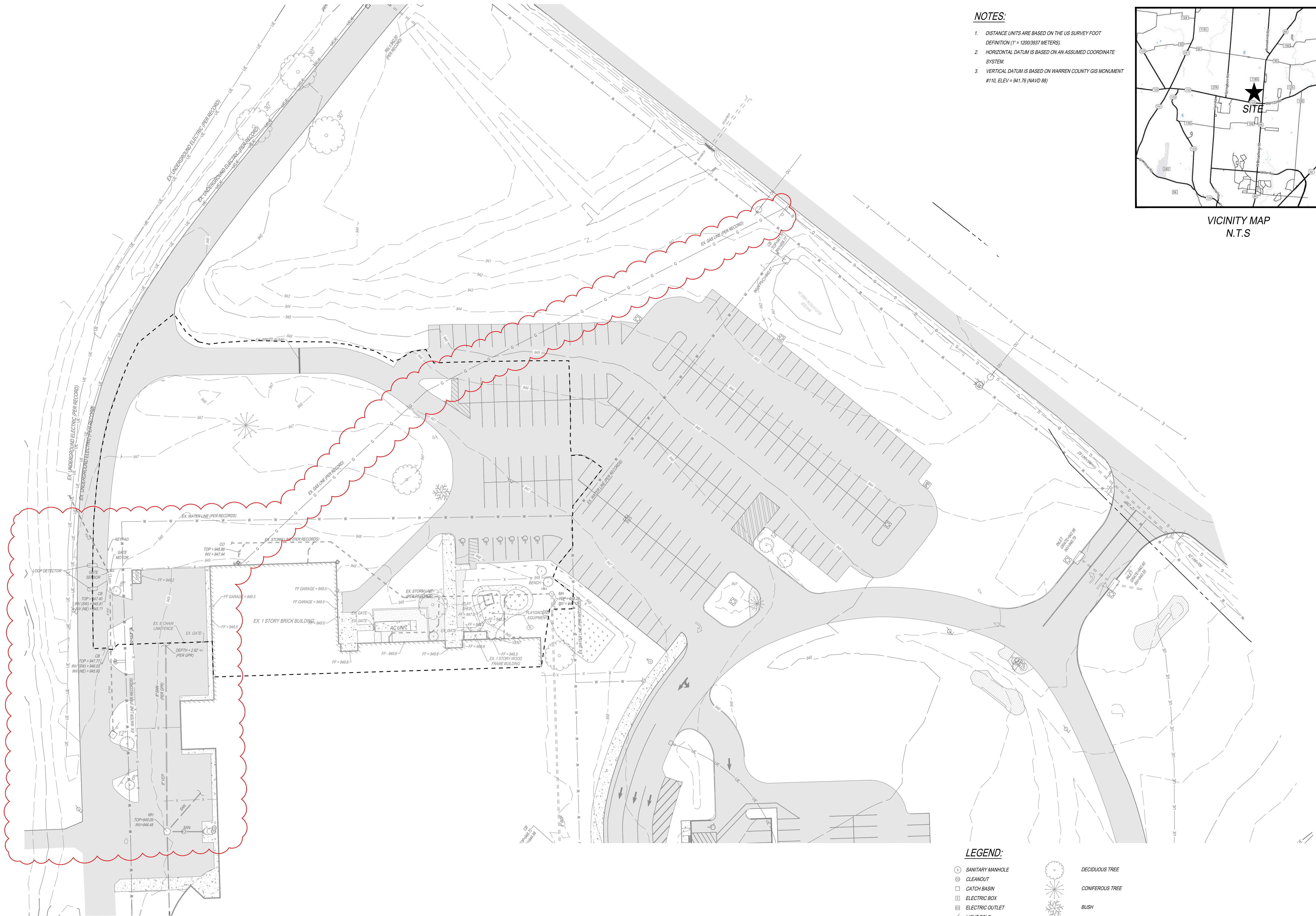


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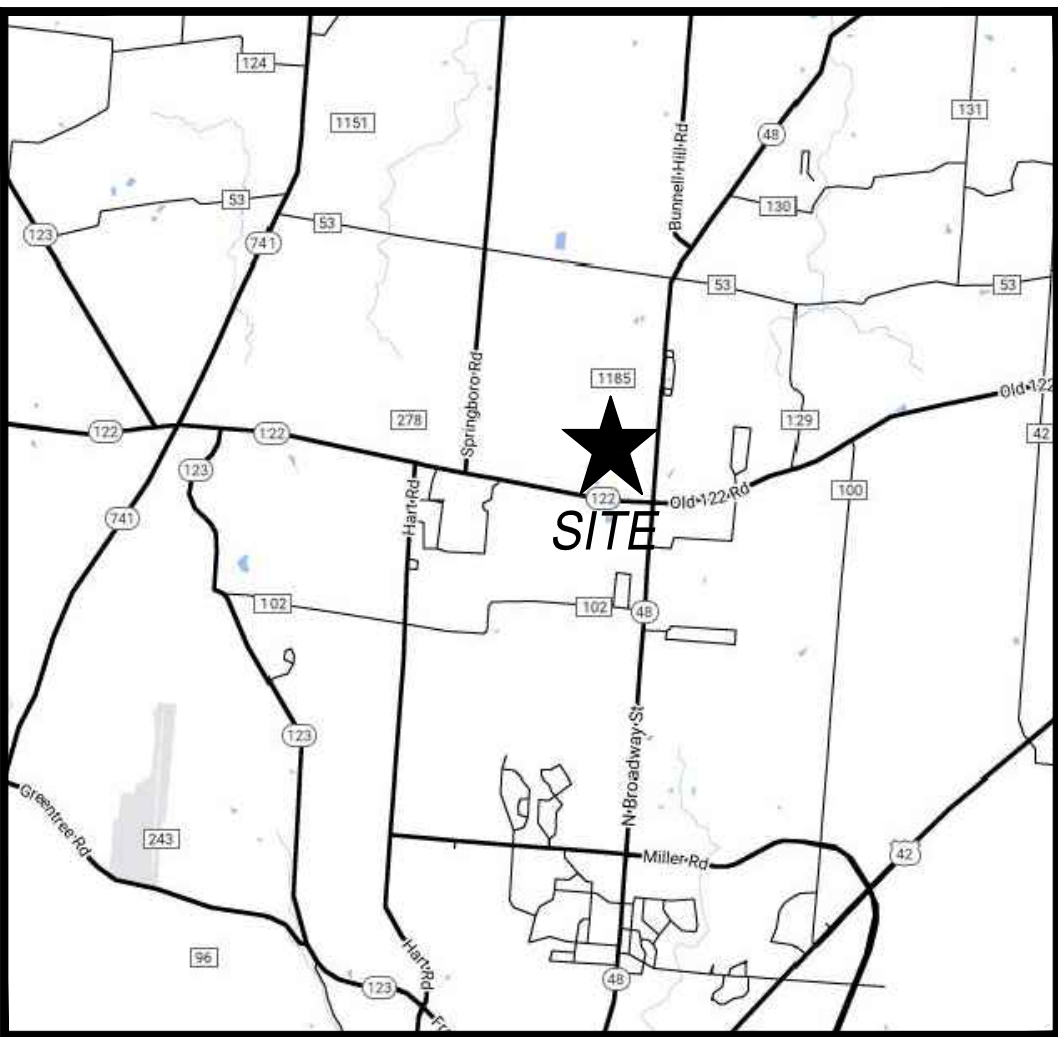


N.T.S. C100





- 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 | | |

NOTE:

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



NOTE: UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2784 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

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REVISIONS:

NO.	DESCRIPTION	DATE

PRINTINGS:

BID / PERMIT SET	ADDENDUM 1

CONSULTANTS



**WARREN COUNTY
CAREER CENTER
MEDICAL ACADEMY**

3525 OH-48, Lebanon, OH 45036



PROJECT NO:

PROJECT #263306.00

CHECKED BY:

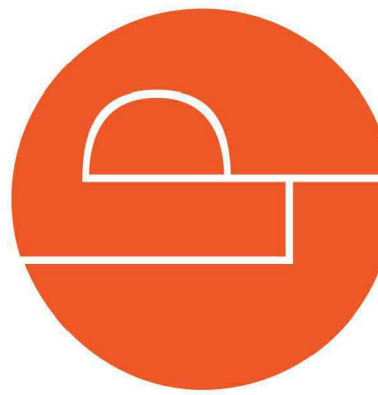
J. SHAW

DRAWN BY:

K. LAGRANGE

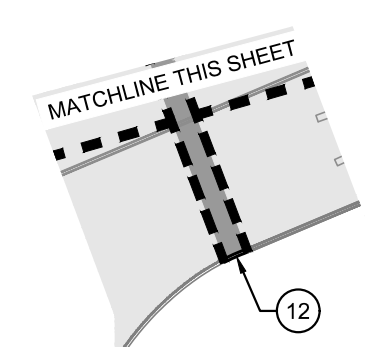
DATE: 09/23/2026

**LEVIN PORTER
ARCHITECTS**
0-937.224.1931
3011 DELUMARK DRIVE
MARIETTA, OHIO 45342
F: 937.224.3031
www.levin-porter.com
Levin Porter Architects Inc. 684 Levin Porter Architects



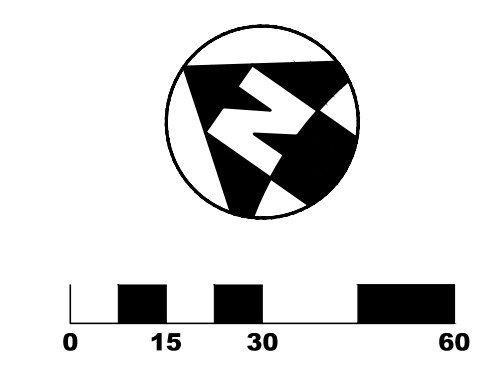
SUPPLEMENTAL
SURVEY BASEMAP

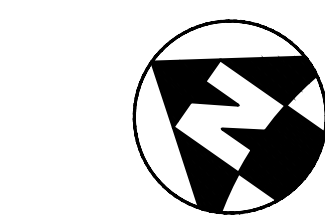
C111



1. CONTRACTOR TO PROTECT ALL EXISTING UTILITIES UNLESS EXPLICITLY CALLED OUT TO BE REMOVED OR REPLACE

C120





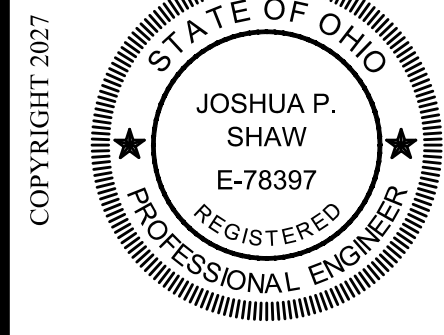
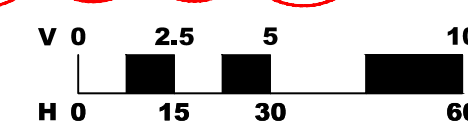
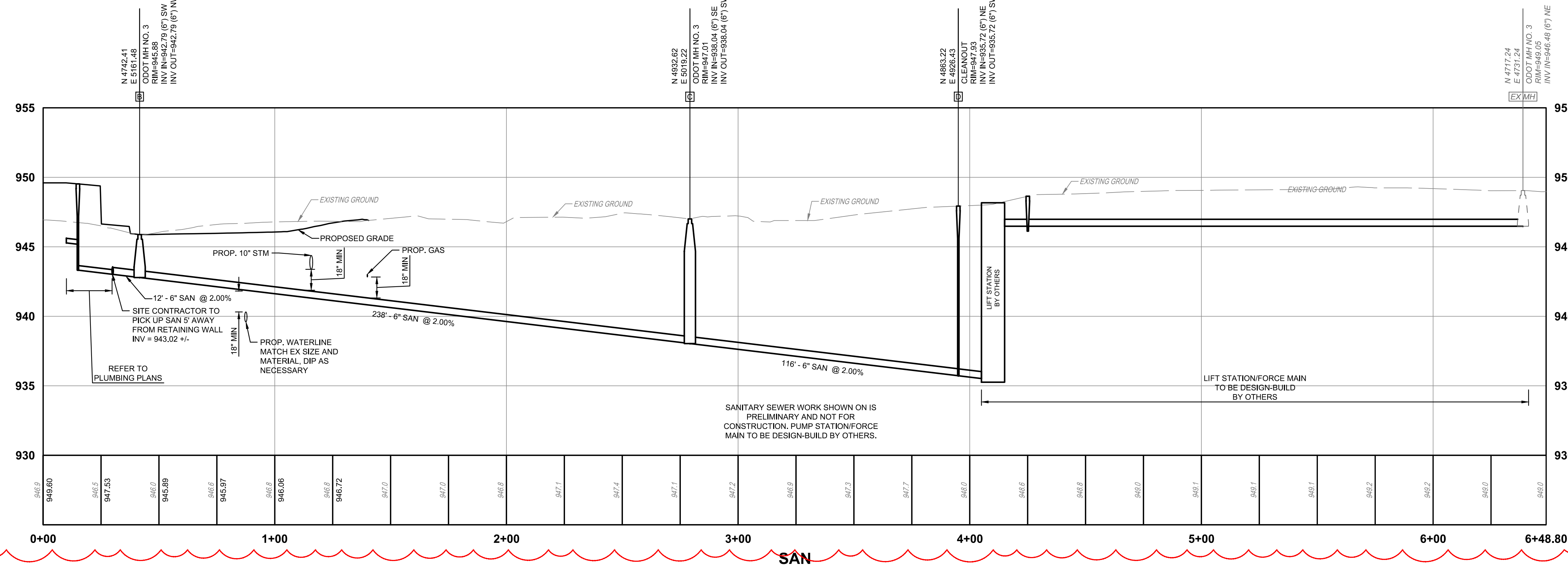
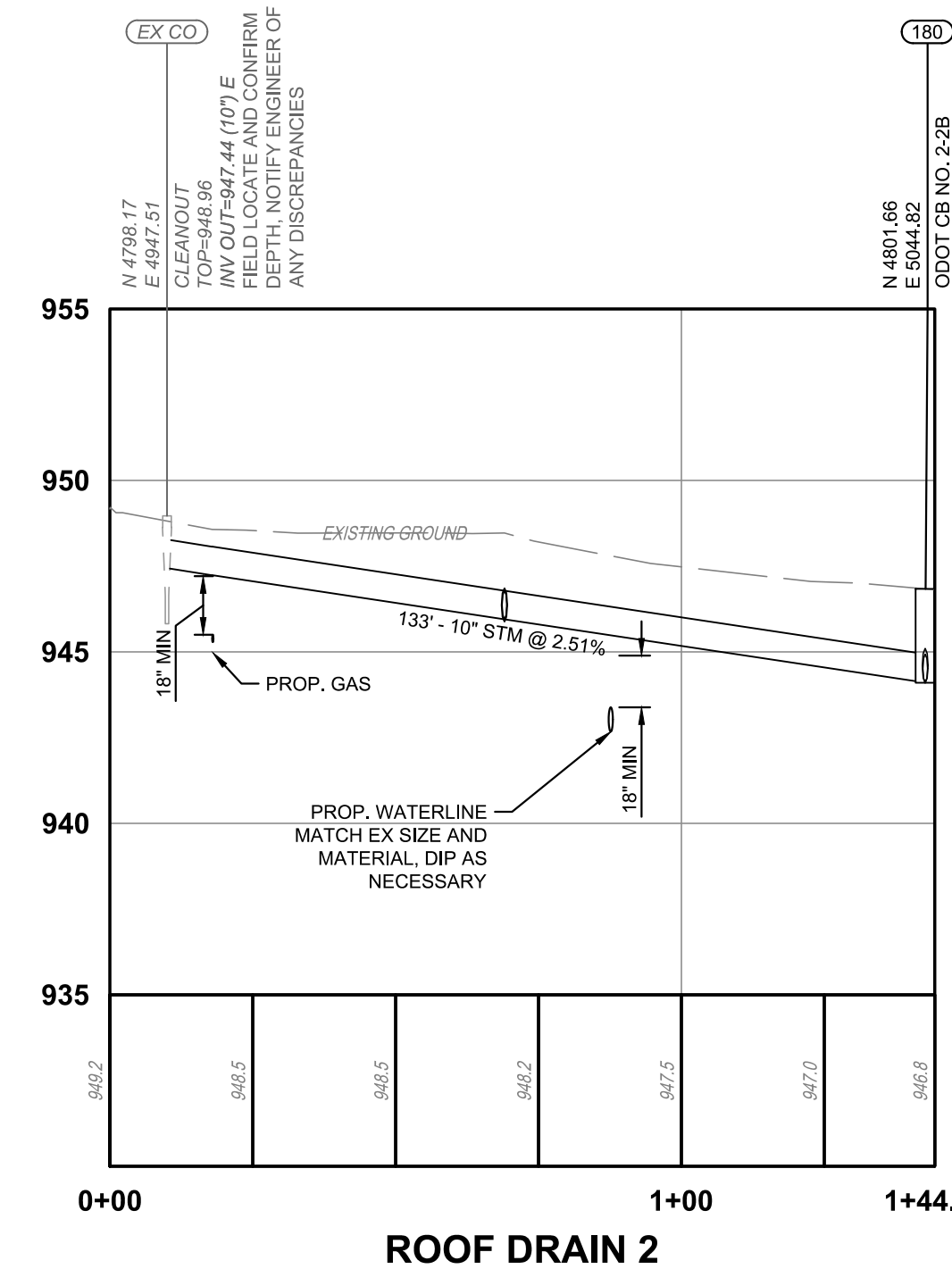
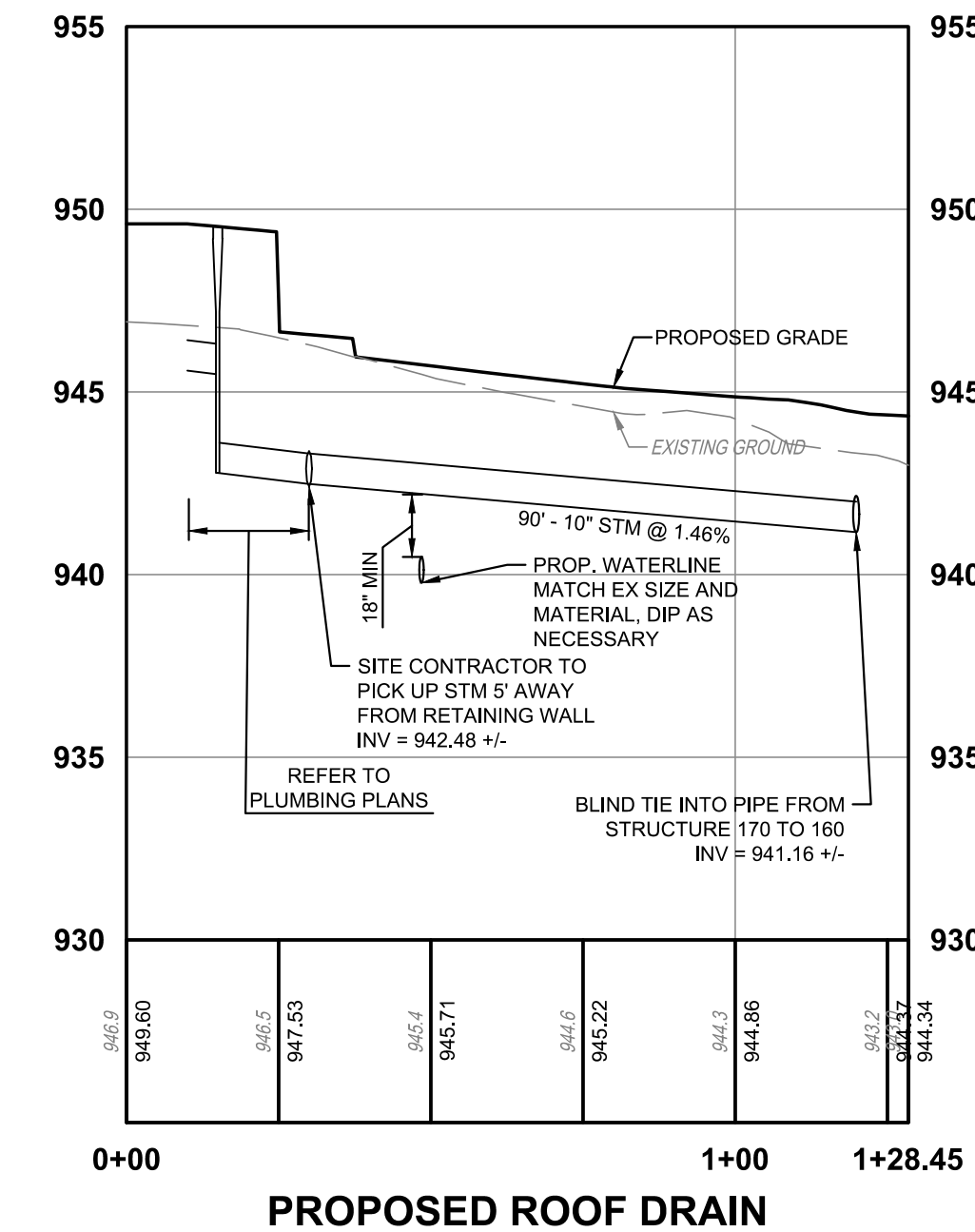
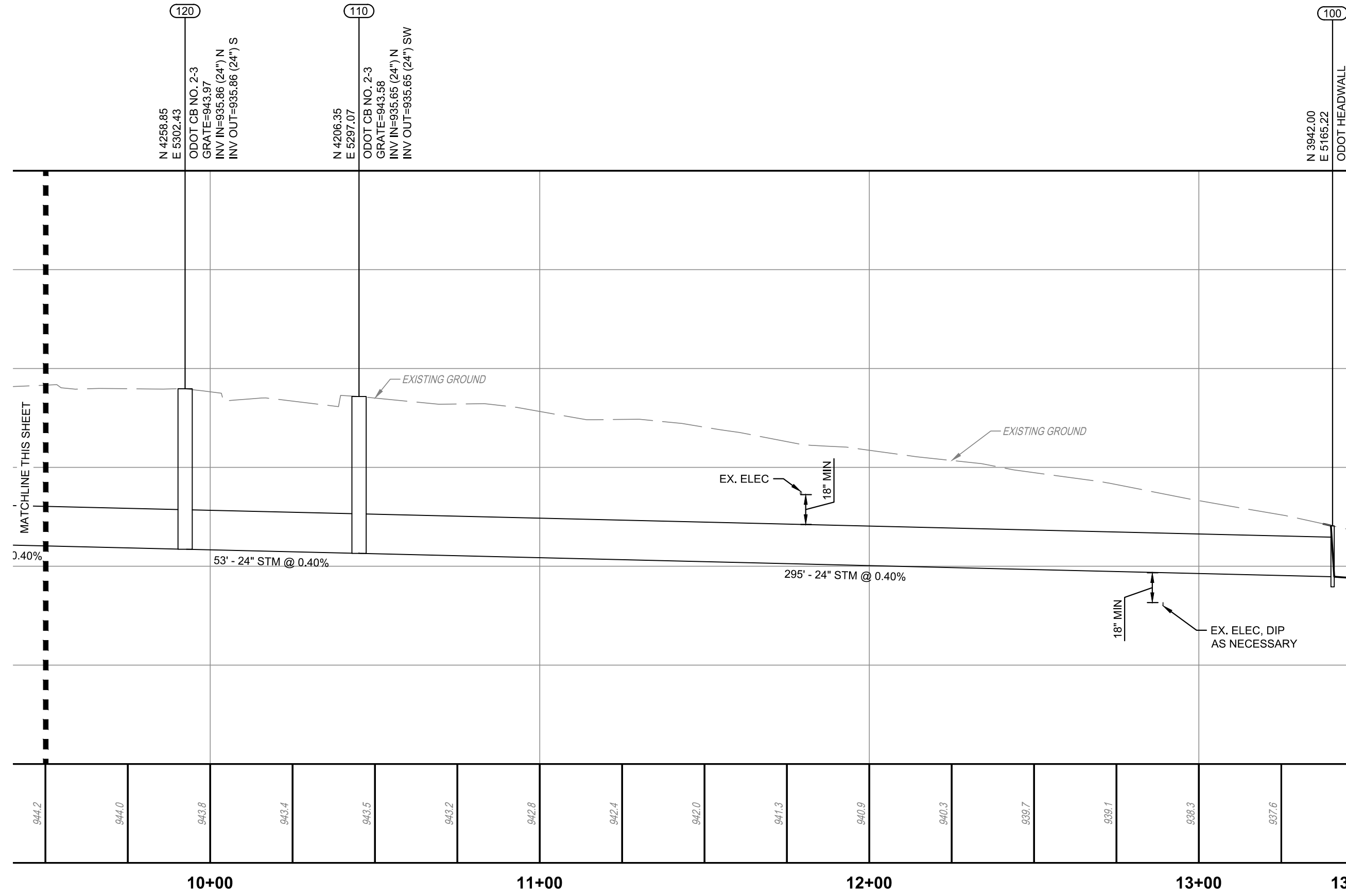
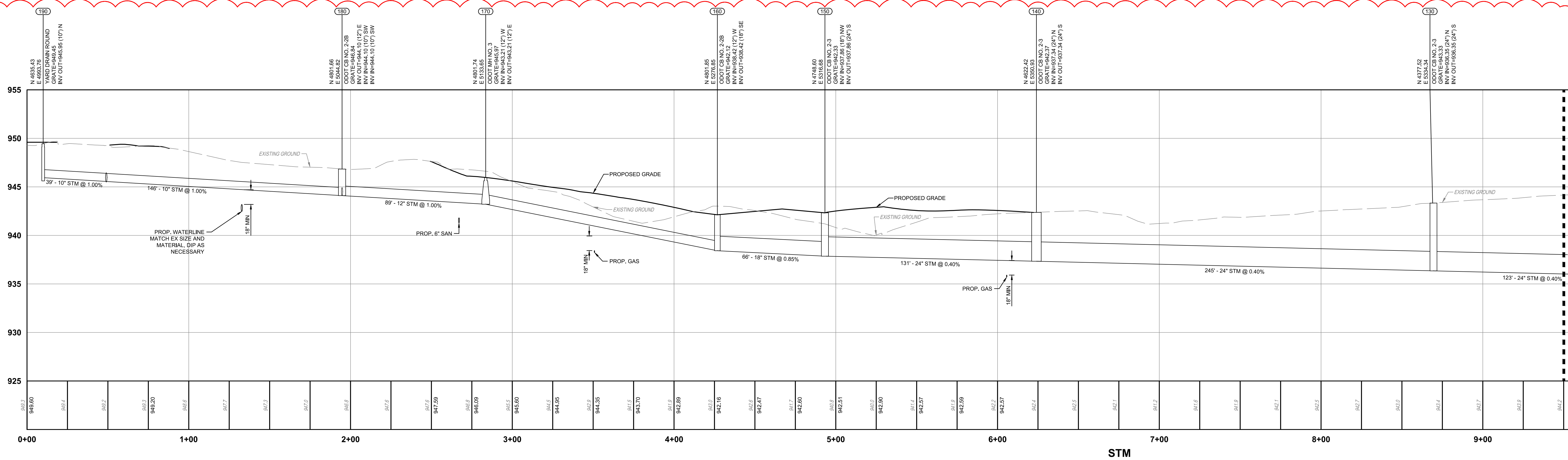
EXISTING	
STANDARD SPACES	193
ADA SPACES	6
TOTAL SPACES	199
PROPOSED	
STANDARD	204
ADA SPACES	6
TOTAL SPACES	210

C130

NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A
COMPILATION OF AVAILABLE RECORD INFORMATION AND
SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND
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REVISIONS:

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	09/12/2026
2	ADDENDUM 1	09/23/2026

PRINTINGS:

BID / PERMIT SET	ADDENDUM 1
09/12/2026	09/23/2026

CONSULTANTS



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



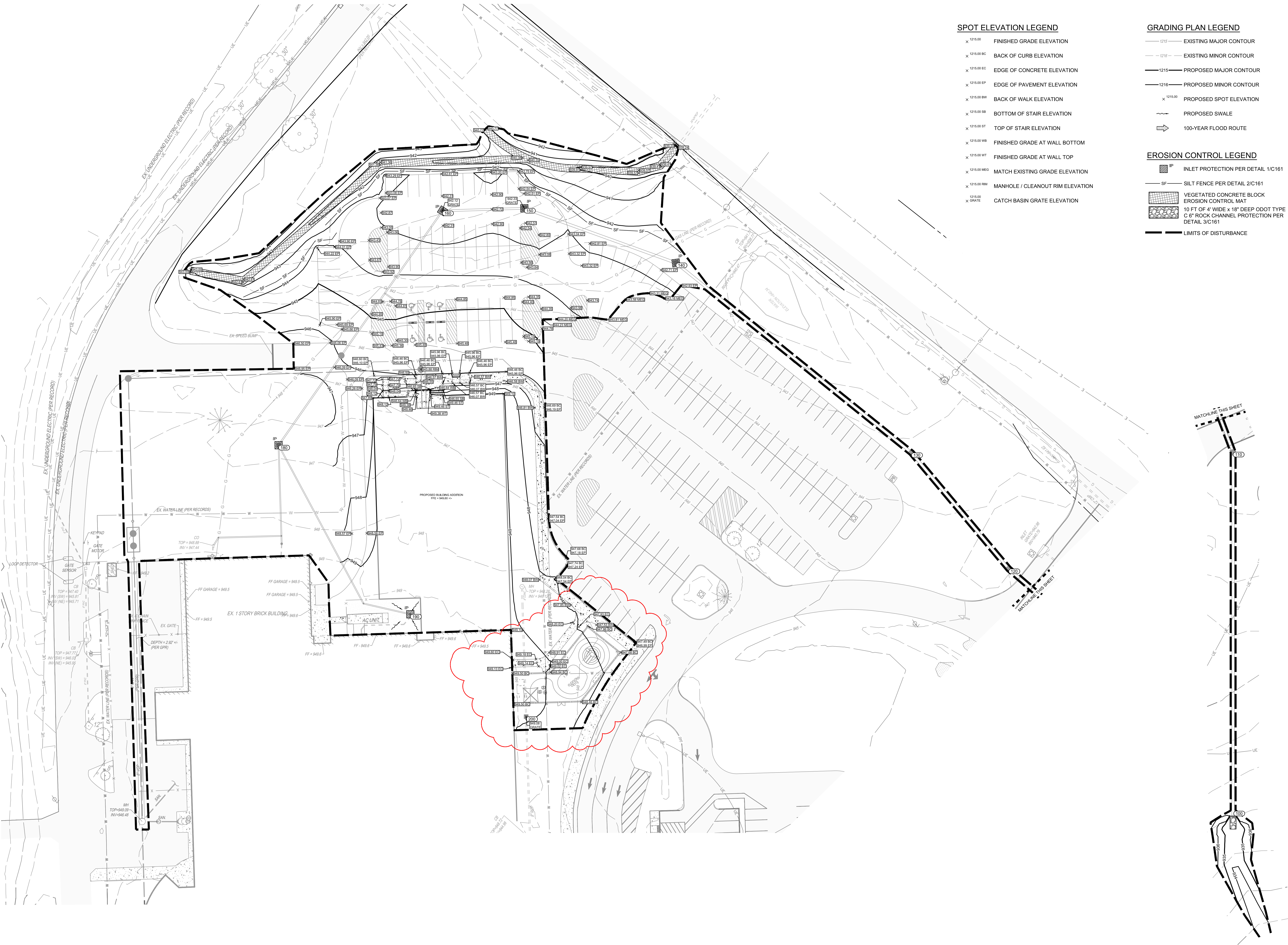
PROJECT NO: #263306.00
PROJECT: J. SHAW
CHECKED BY: J. SHAW
DRAWN BY: K. LAGRANGE
DATE: 09/23/2026

**LEVIN PORTER
ARCHITECTS**
3011 DELUMARK DRIVE
MARIETTA, OHIO 45754
www.levin-porter.com



UTILITY PROFILES

C141



NOTE:
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PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

SPOT ELEVATION LEGEND

- 1215.00 FINISHED GRADE ELEVATION
- 1215.00 BC BACK OF CURB ELEVATION
- 1215.00 EC EDGE OF CONCRETE ELEVATION
- 1215.00 EP EDGE OF PAVEMENT ELEVATION
- 1215.00 BW BACK OF WALK ELEVATION
- 1215.00 SB BOTTOM OF STAIR ELEVATION
- 1215.00 ST TOP OF STAIR ELEVATION
- 1215.00 WB FINISHED GRADE AT WALL BOTTOM
- 1215.00 WT FINISHED GRADE AT WALL TOP
- 1215.00 MEG MATCH EXISTING GRADE ELEVATION
- 1215.00 RM MANHOLE / CLEANOUT RIM ELEVATION
- 1215.00 GB CATCH BASIN GRATE ELEVATION

GRADING PLAN LEGEND

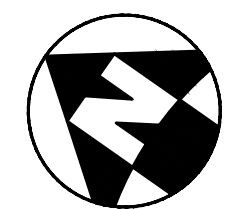
- 1215 EXISTING MAJOR CONTOUR
- 1216 EXISTING MINOR CONTOUR
- 1215 PROPOSED MAJOR CONTOUR
- 1216 PROPOSED MINOR CONTOUR
- 1215.00 PROPOSED SPOT ELEVATION
- PROPOSED SWALE
- 100-YEAR FLOOD ROUTE

EROSION CONTROL LEGEND

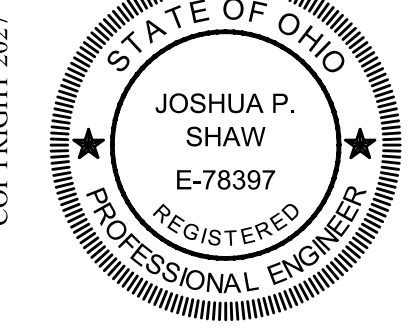
- IP INLET PROTECTION PER DETAIL 1/C161
- SF SILT FENCE PER DETAIL 2/C161
- VEGETATED CONCRETE BLOCK EROSION CONTROL MAT
- 10 FT OF 4" WIDE x 18" DEEP ODOT TYPE C 6" ROCK CHANNEL PROTECTION PER DETAIL 3/C161
- LIMITS OF DISTURBANCE

MATCHLINE THIS SHEET

MATCHLINE THIS SHEET



0 15 30 60



REVISIONS:

PRINTINGS:

CIVIL ENGINEERING
SURVEYING
ARCHITECTURE
www.kleingers.com
6010 Summit Park Dr.
Cincinnati, OH 45240
513.757.7801

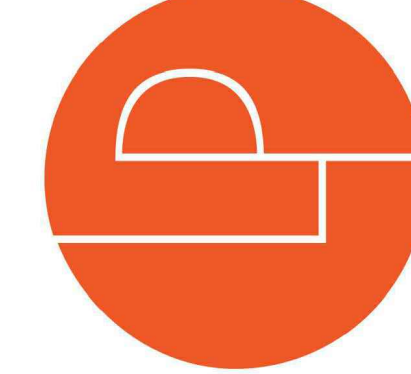


WARREN COUNTY
CAREER CENTER
MEDICAL ACADEMY
3522 OH-48, Lebanon, OH 45036



PROJECT NO:
PROJECT #263306.00
CHECKED BY:
J. SHAW
DRAWN BY:
K. LAGRANGE
DATE:
02/23/2026

LEVIN PORTER
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www.levin-porter.com
Levin Porter Associates Inc. dba Levin Porter Architects
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F: 937.224.3091



GRADING PLAN

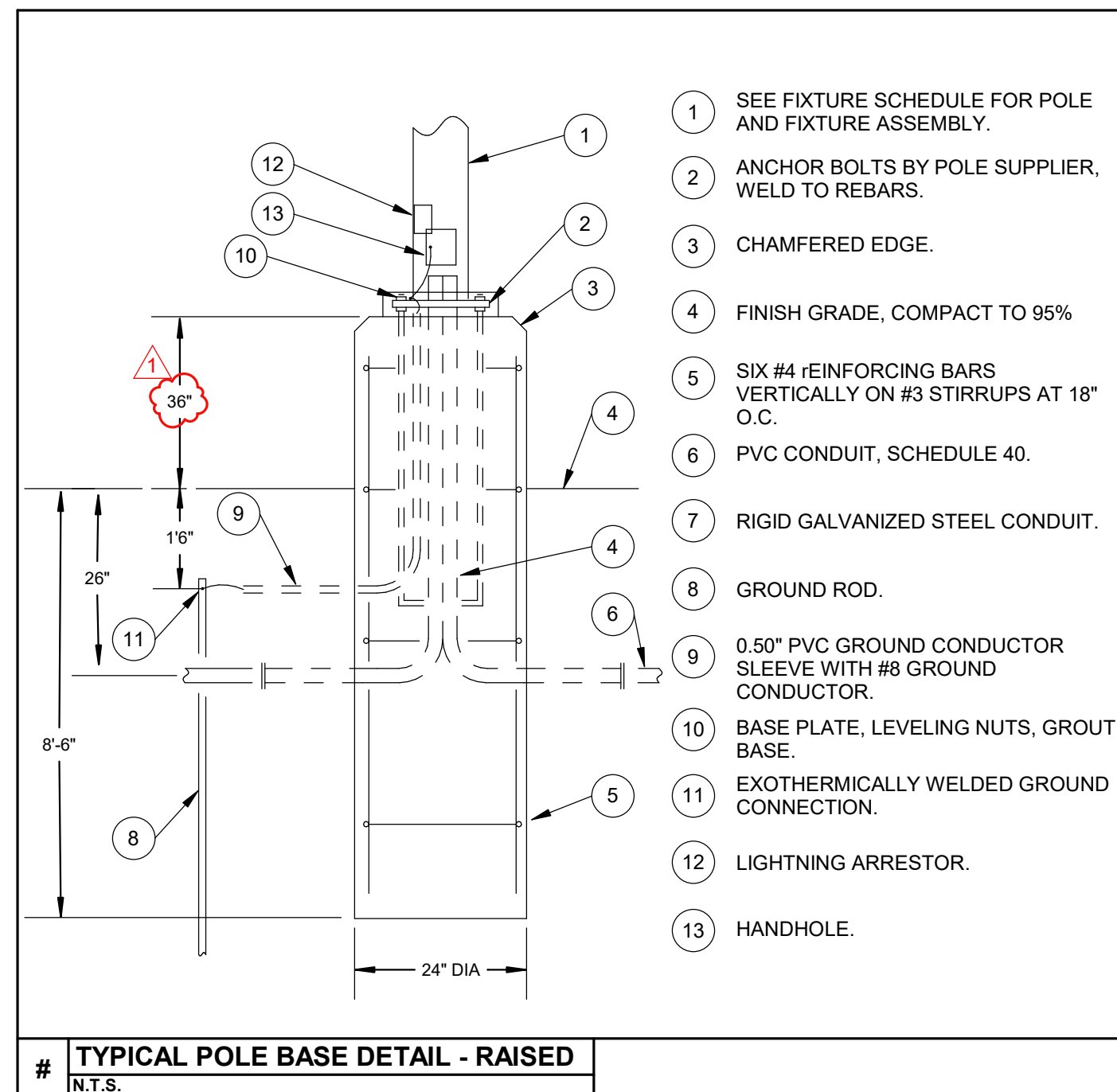
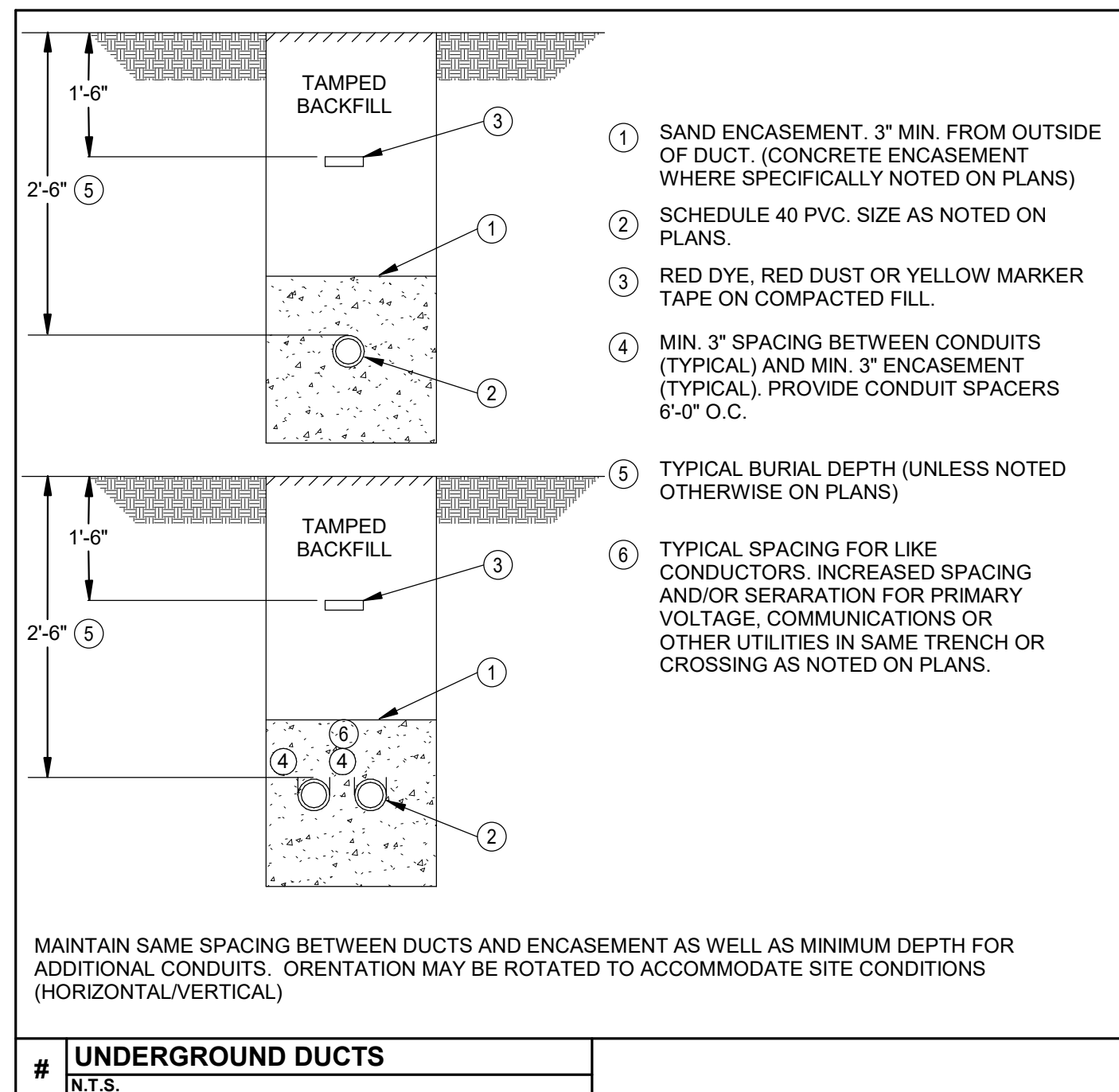
C150

[illegible]

1. PROGRAM EXTERIOR LIGHTING FOR PHOTO CELL ON/OFF CONTROL
- 2.
- 3.

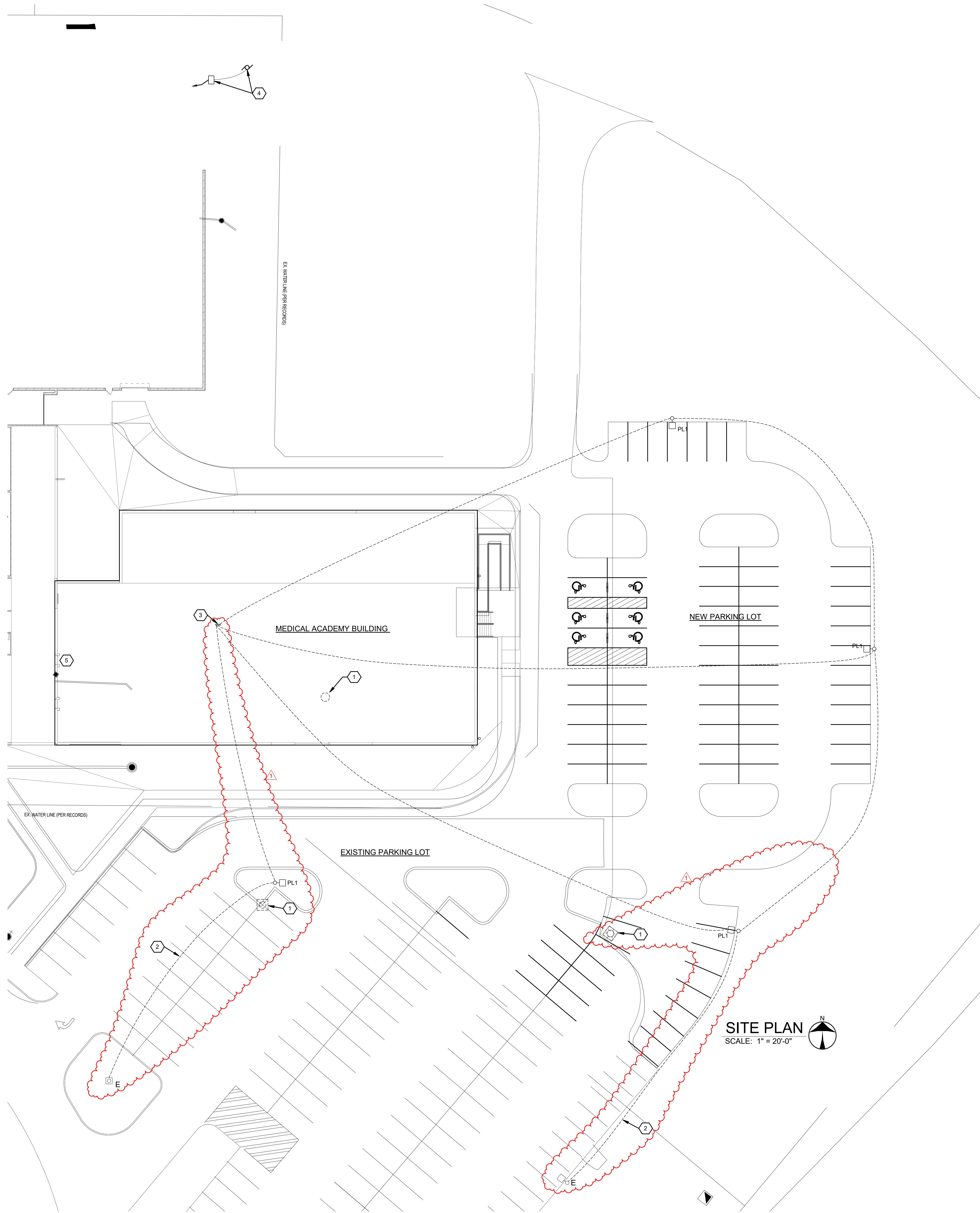
FIXTURE SYMBOL	LUMINAIRE				FIXTURE VOLTAGE	MANUFACTURER & CATALOG NO.	OTHER ACCEPTABLE MANUFACTURES	DIFFUSING MEDIA	TRIM COLOR				MOUNTED	SIZE			SEE NOTES					
	LED	TYPE	LOW VOLTAGE	WATTS/FIXTURE					LUMENS/ COLOR TEMP	WHITE	BLACK	ALUMINUM		BRONZE	STANDARD	SEE NOTES		S - SURFACE, R - RECESSED, SM - STEM MTD, WM - WALL MTD, C - CHAIN MTD, UC - UNDER CAB, CS - CLG. SURF.	WIDTH	LENGTH	DEPTH	DIAMETER
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-M-15L-35K-B-MD-M1-LF6RD-SS-WT	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-M-15L-35K-B-MD-M1-LF6RD-SS-WT-CL	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	NONE	•					CS				5				
K1	•			50		120	HUBBELL #TRF2-24L-50-4K-3-UNV-DBS-PC	LUMARK, LITHONIA, GARDCO	CUTOFF LENS		•			WM								
PL1	•			150		480	BEST LIGHTING PRODUCTS #MPALDSR 242119LPR	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	•												

1.	LUMEN AND COLOR SELECTABLE. SET AT 3500K AND MEDIUM LUMEN OUTPUT.
2.	SAME AS 'NON-E' FIXTURE TYPE BUT WITH EMERGENCY BATTERY BACKUP.
3.	FIXTURE AND POLE SHALL MATCH EXISTING SITE LIGHTING. E.C. SHALL FIELD VERIFY FIXTURE VOLTAGE.
4.	5" SQUARE STEEL POLE. SHALL HAVE PROVISIONS FOR CAMERA MOUNTING 15"-
5.	SURGICAL PROCEDURE LIGHT FURNISHED/INSTALLED BY E.C. MANUFACTURED BY MEDICAL ILLUMINATION #XDP-SC-CR20. PHONE # (800) 831-1222.
6.	ADJUSTABLE LUMEN OUTPUT, COLOR TEMP. AND DISTRIBUTION.

[illegible]

1. PROVIDE FULL 200 AMP FEEDER TO FUSIBLE DISCONNECT AT RTU. FUSE AND FEED TO UNIT PER MANUFACTURER.
2. PROVIDE 20A-277V FEED TO FAN MOTOR IN ADDITION TO 480V FEED TO HEATING ELEMENT.
3. 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.
- 4.
- 5.

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- CONSTRUCTION NOTES**
1. REMOVE EXISTING LIGHT POLE, MAINTAIN ASSOCIATED CIRCUITRY TO NEXT ACTIVE POLE LIGHT. REMOVE CCTV SECURITY CAMERA AND TURN OVER TO OWNER. REMOVE CCTV DATA WIRING BACK TO LAST ACTIVE DEVICE.
 2. EXTEND EXISTING SITE LIGHTING CIRCUIT FROM EXISTING POLE LIGHT TO NEW POLE LIGHTS, CONTROLLED FROM EXISTING SITE LIGHTING CIRCUIT. UTILIZE #8 AWG CONDUCTORS. COORDINATE VOLTAGE AND # OF CONDUCTORS BASED ON EXISTING SITE LIGHTING CIRCUITRY. UTILIZE 1.25" PVC CONDUITS FOR SITE CIRCUITRY. (480V-1PH).
 3. PROVIDE 1.25" PVC CONDUIT FROM EACH POLE BASE TO STUB UP INTO I.T. EQUIPMENT ROOM FOR CCTV CAMERA WIRING. COORDINATE CAMERA INSTALLATION ON POLES WITH TECHNOLOGY CONTRACTOR/OWNER.
 4. NEW SANITARY LIFT STATION. PROVIDE 30A-208V-3PH CIRCUIT TO LIFT STATION CONTROLLER (TO BE LOCATED ON BUILDING ADJACENT TO LIFT STATION). PROVIDE EXTERIOR NEMA 3R FUSED DISCONNECT ADJACENT TO CONTROLLER. COORDINATE CIRCUIT FROM 120/208V PANEL IN MAIN ELECTRIC ROOM.
 5. DISCONNECT/REMOVE EXISTING EXTERIOR WALLPACK LIGHT FIXTURE AND CAMERAS AFFECTED BY NEW BUILDING ADDITION WALL(S) AND TURN OVER TO OWNER.



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STATE OF OHIO
JEFFREY D. ZELINSKI
63822
PROFESSIONAL ENGINEER
EXPIRATION DATE 12/31/2027

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

REVISIONS:

Number	Description	Date
1	ADDENDUM 1	09.25.26

PRINTINGS:

Bld / Permit Set	Date
	09.15.2025

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3925 OH-46, Lebanon, OH 45036

PROJECT NO:
PROJECT #263306.00
CHECKED BY:
TCR
DRAWN BY:
DAC
DATE:
09.15.2025

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SITE PLAN NEW/DEMO

E-101





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

E-301

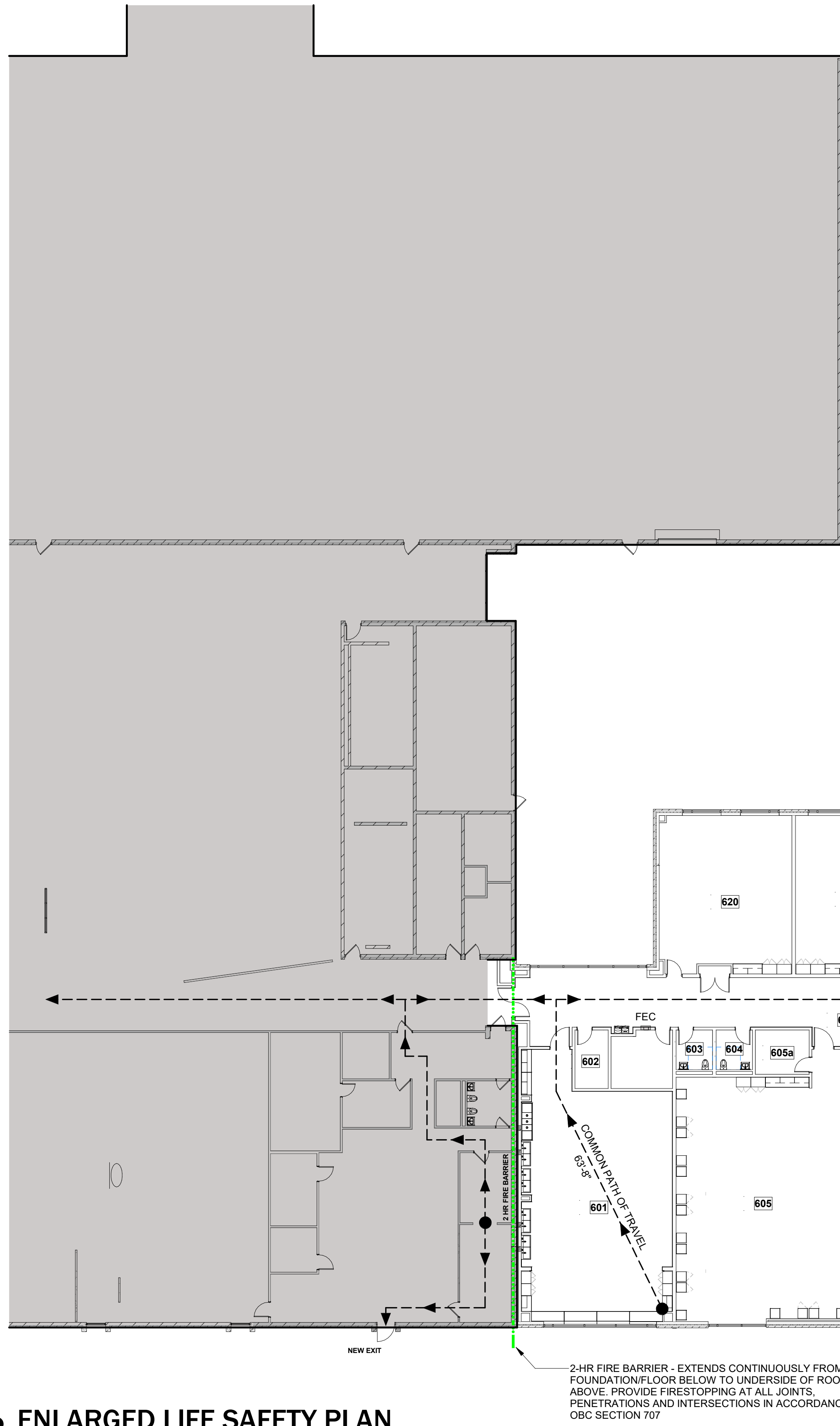
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26 OVERALL LIFE SAFETY PLAN

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

TEMPORARY EGRESS PATHWAY DURING CONSTRUCTION. BARRIERS AND SIGNAGE WILL BE INSTALLED DIRECTING BUILDING OCCUPANTS TO ALTERNATE EGRESS.

ADDITION FACILITY:
19,395 SF

EXISTING FACILITY:
182,589 SF

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(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 bolts 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 - Complex

Number of Exits and Exit Access Doorways (Section 1006)

Per Table 1006.2.1.1, 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 1006.2.2.7.2, Exit access shall be provided from electrical equipment workspaces with equipment rated 800 amperes or more shall have exit access openings within 25 feet of working space. The door shall be equipped with panic hardware.

Not Applicable

Doors, Gates and Turnstiles (Section 1010)

Per 1010.1.2.1, 36-in-Hinged swinging doors shall swing in the direction of egress travel where serving a room or area containing an occupant load of 50 or more.

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	Date	
1	BIDDING ADDENDUM	9/23/2025	

PRINTINGS:	
Sheet / Permit Set	09/13/2025

WARREN COUNTY
CAREER CENTER
MEDICAL ACADEMY

3625 OH-48, Lebanon, OH 45036



PROJECT NO:
PROJECT #263306.00
CHECKED BY:
Checker
DRAWN BY:
Author
DATE:
09/23/2025

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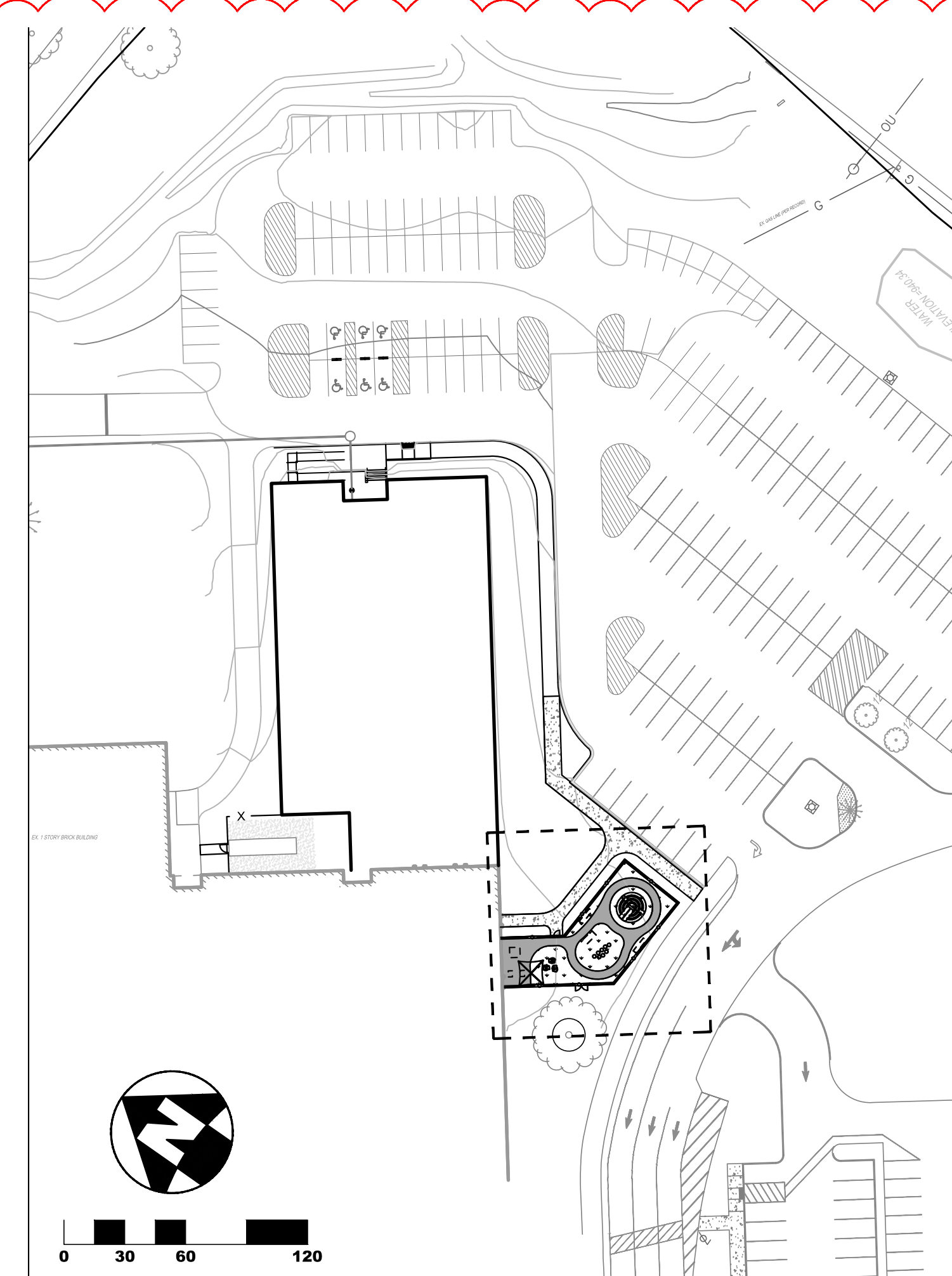
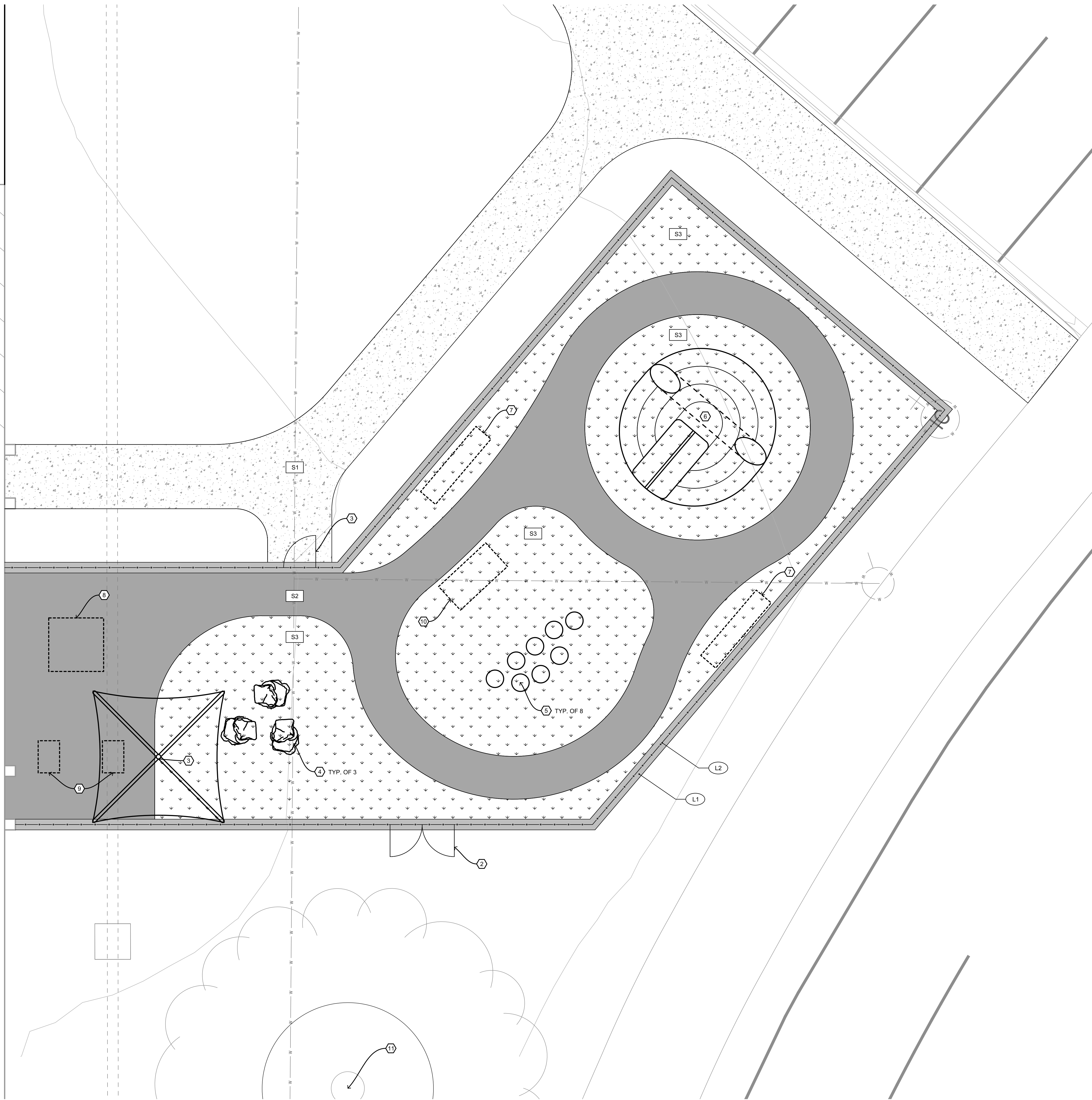


LIFE SAFETY PLAN

G004



NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A
COMPILATION OF AVAILABLE RECORD INFORMATION AND
SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND
MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE
EXISTENCE OR NON-EXISTENCE OF UNDERGROUND UTILITIES
CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY
PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY
PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.



KEY MAP

GENERAL NOTES

1. EACH CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES.
2. SUBSURFACE IMPROVEMENTS SHALL BE OBSERVED. THE CONTRACTOR SHALL CONTACT THE OHIO UTILITIES PROTECTION SERVICE (OUPS) 48 HOURS PRIOR TO ANY EXCAVATION OR DIGGING TO ENSURE THE LOCATION OF UNDERGROUND UTILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT SUCH UNDERGROUND UTILITIES.
3. ALL CONCRETE FORMS SHALL BE FIELD STAKED AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO CONCRETE INSTALLATION.
4. ALL HORIZONTAL AND VERTICAL LAYOUT SHALL BE REVIEWED BY THE OWNER'S REPRESENTATIVE TO ENSURE GENERAL CONFORMANCE PRIOR TO CONSTRUCTION.
5. PROVIDE AN ISOLATION JOINT WHERE CONCRETE PAVING ABUTS BUILDINGS, COLUMNS, AND STRUCTURES. VERIFY COLOR OF SEALANT WITH OWNER'S REPRESENTATIVE.
6. CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS, AREA DISCREPANCIES AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATIONS.
7. CONTRACTOR SHALL BE RESPONSIBLE TO CONSULT WITH SITE SUPERINTENDENT, APPROPRIATE AGENCIES, AND PLANS FOR LOCATION OF ALL UNDERGROUND UTILITIES, PIPES, AND STRUCTURES.
8. CONTRACTOR TO REPORT TO ENGINEER ANY ADDITIONAL UTILITY LINES FOUND DURING CONSTRUCTION.
9. REESTABLISH ALL DISTURBED TURF AREAS WITH SEED AND STRAW PER SPECIFICATIONS.

CONSTRUCTION NOTES:

- 1 3' WIDE SWING GATE, 1/L101
- 2 6' WIDE DOUBLE SWING GATE, 1/L101
- 3 SHADE STRUCTURE, 4/L101
- 4 BOULDER STEPPER, 5/L101
- 5 MUSHROOM STEPPER, 6/L101
- 6 CUSTOM SYNTHETIC TURF MOUND WITH DOUBLE SLIDE AND TUNNEL; PROVIDE SHOP DRAWINGS FOR APPROVAL
- 7 FUTURE BENCH ; TO BE PROVIDED BY OWNER
- 8 FUTURE PICNIC TABLE ; TO BE PROVIDED BY OWNER
- 9 FUTURE SENSORY TABLE ; TO BE PROVIDED BY OWNER
- 10 FUTURE PLAY SHED ; TO BE PROVIDED BY OWNER
- 11 EXISTING TREE; PROTECT IN PLACE

SURFACE ITEMS

- | | | |
|----|--|--|
| S1 | | STANDARD CONCRETE, TYP. SEE CIVIL DRAWINGS |
| S2 | | STANDARD ASPHALT, TYP. SEE CIVIL DRAWINGS |
| S3 | | SYNTHETIC TURF, TYP. |

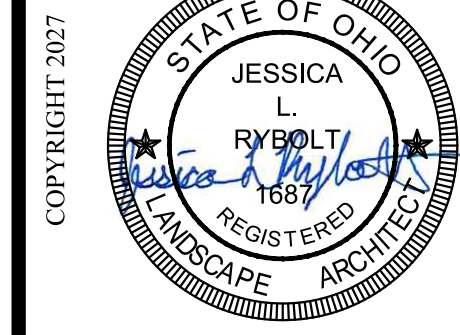
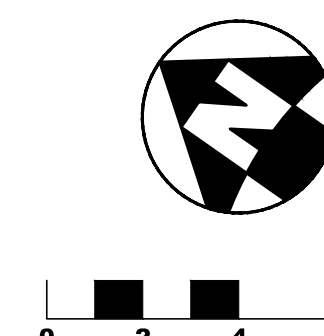
LANDSCAPE ITEMS

- | | | |
|----|--|------------------------|
| L1 | | 1' CONCRETE FLUSH CURB |
| L2 | | 5' TALL ALUMINUM FENCE |

2
L101

3
L101

1
L101



REVISIONS:

NO.	DESCRIPTION	DATE

PRINTINGS:

90% CD'S	09.12.2026
ADDENDUM 1	09.23.2026

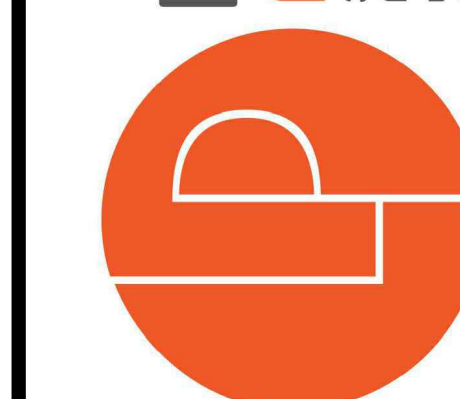


**WARREN COUNTY
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3525 OH-48, Lebanon, OH 45036



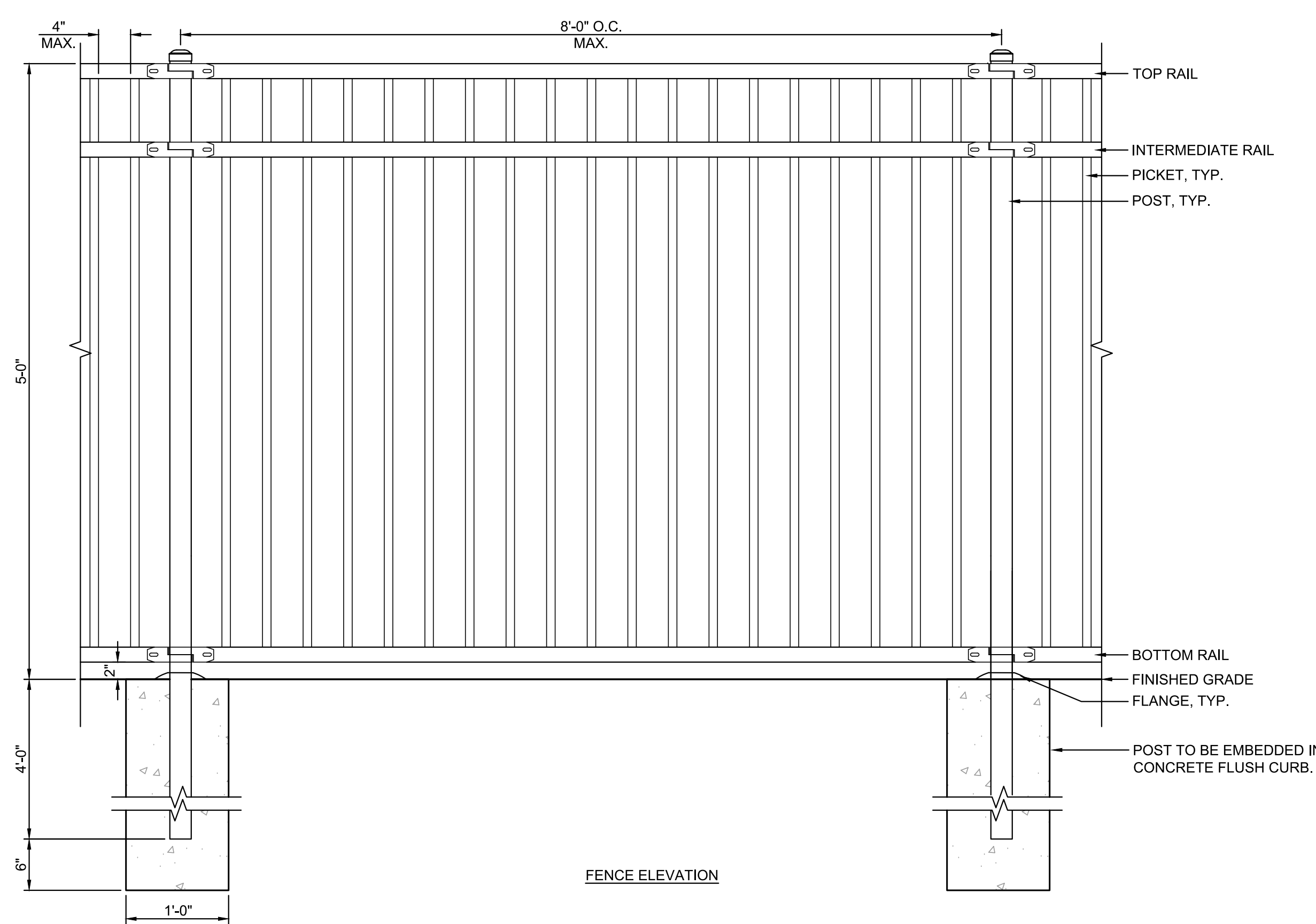
PROJECT NO:
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J. SHAW
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K. LAGRANGE
DATE:
09.23.2026

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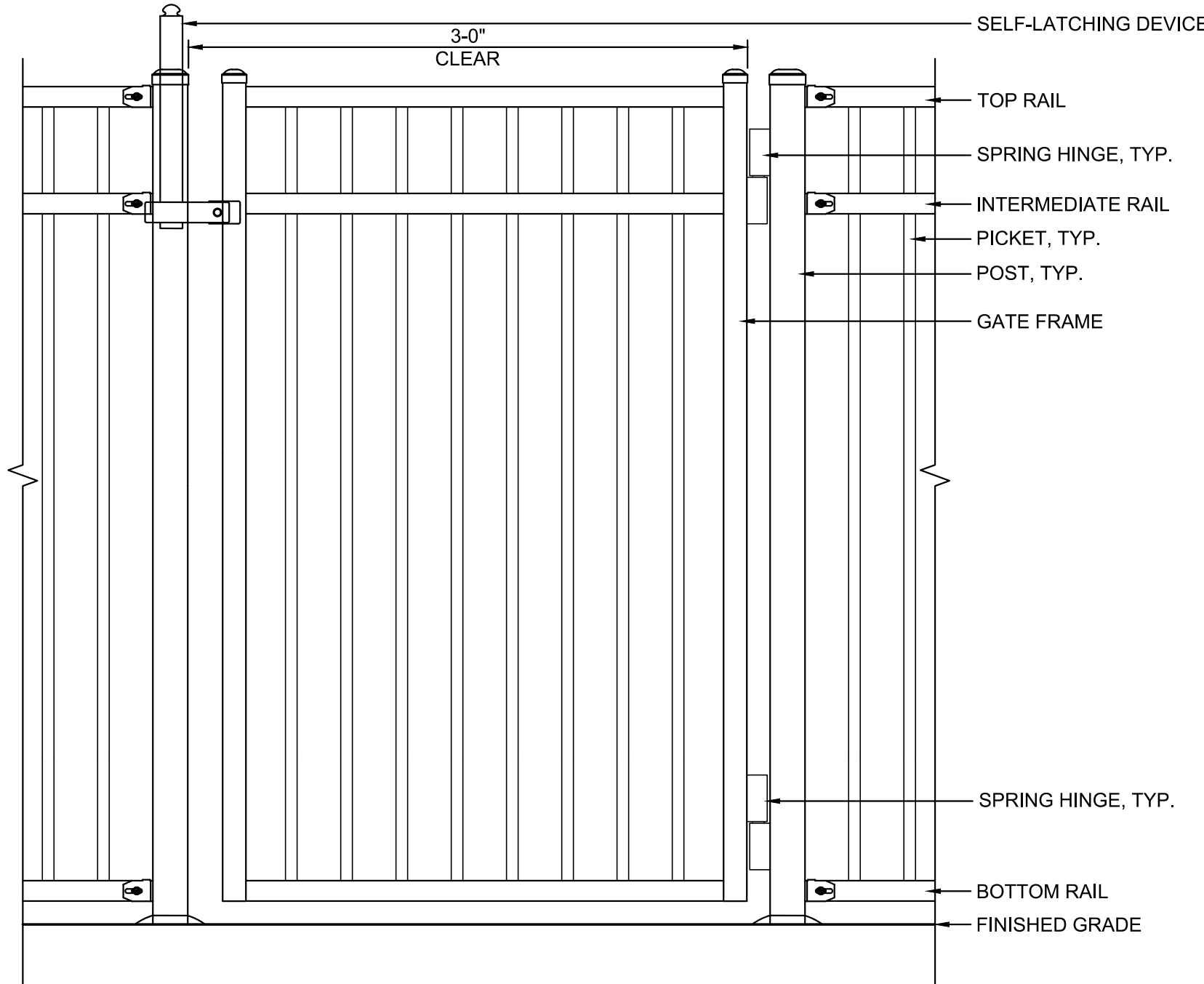


PLAYGROUND PLAN

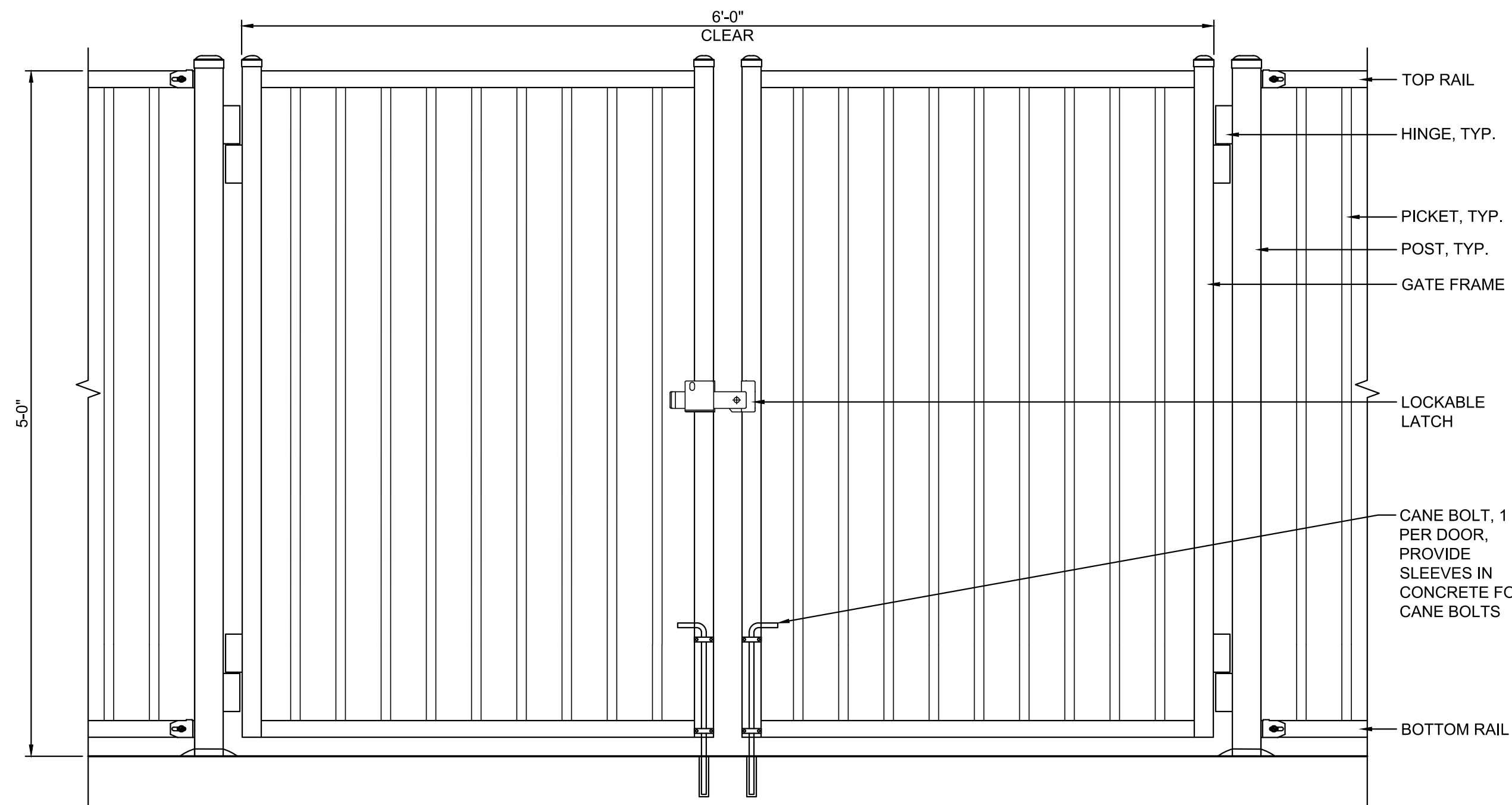
L100



FENCE ELEVATION



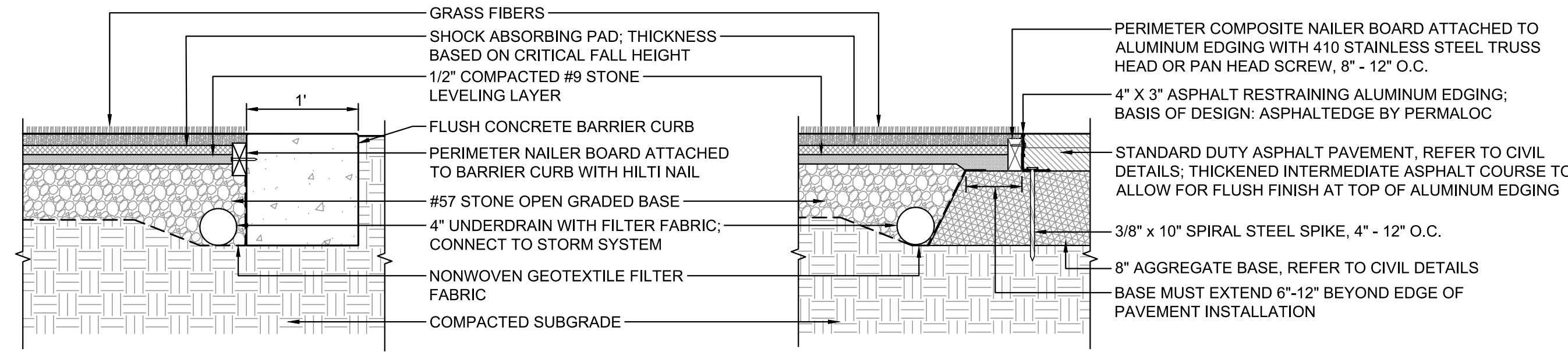
SINGLE GATE ELEVATION



DOUBLE GATE ELEVATION

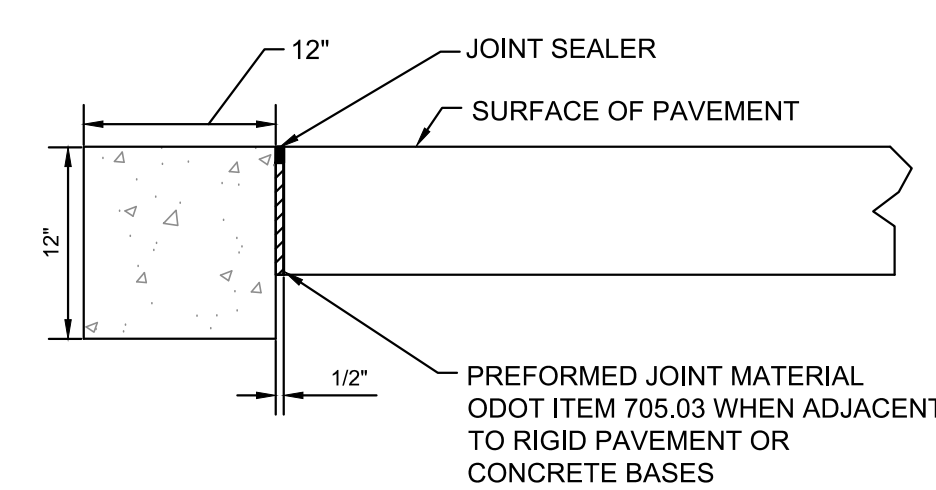
- NOTES:
1. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.

1 DECORATIVE ALUMINUM FENCE
SCALE: N.T.S.



- NOTES:
1. SEE SPEC 321813 FOR ADDITIONAL INFORMATION.

2 SYNTHETIC TURF SAFETY SURFACE
N.T.S.



3 CONCRETE FLUSH CURB ADJACENT TO PAVEMENT
N.T.S.



- NOTES:
1. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.
2. PROVIDE BASIS OF DESIGN OR APPROVED EQUAL.
3. BASIS OF DESIGN MANUFACTURER : LANDSCAPE STRUCTURES (888) 438-6574.
4. BASIS OF DESIGN PRODUCT : #267724 12x12' SINGLE POST HYPAR SHADE.
5. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

4 SHADE STRUCTURE
N.T.S.



- NOTES:
1. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.
2. PROVIDE BASIS OF DESIGN OR APPROVED EQUAL.
3. BASIS OF DESIGN MANUFACTURER : LANDSCAPE STRUCTURES (888) 438-6574.
4. BASIS OF DESIGN PRODUCT : #160419 THE STEPPER ROCK CLIMBER.
5. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

5 BOULDER STEPPER
N.T.S.

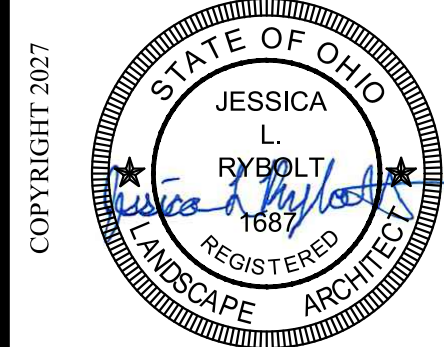


- NOTES:
1. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.
2. PROVIDE BASIS OF DESIGN OR APPROVED EQUAL.
3. BASIS OF DESIGN MANUFACTURER : LANDSCAPE STRUCTURES (888) 438-6574.
4. BASIS OF DESIGN PRODUCT : MUSHROOM STEPPER. PRODUCTS TO BE SELECTED IN ROUGHLY EQUAL PROPORTIONS OF VARYING SIZES WITHIN AVAILABLE RANGE OF 8" TO 20" HT.
5. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

6 MUSHROOM STEPPER
N.T.S.



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NO.	DESCRIPTION	DATE

PRINTINGS:

90% CD'S	90% CD'S	90% CD'S	90% CD'S
ADDENDUM 1			

CIVIL ENGINEERING
SURVEYING
ARCHITECTURE
www.kleingers.com
6610 Summit Point Dr.
Cincinnati, OH 45240
513.759.7801

CONSULTANTS

THE KLEINGERS GROUP

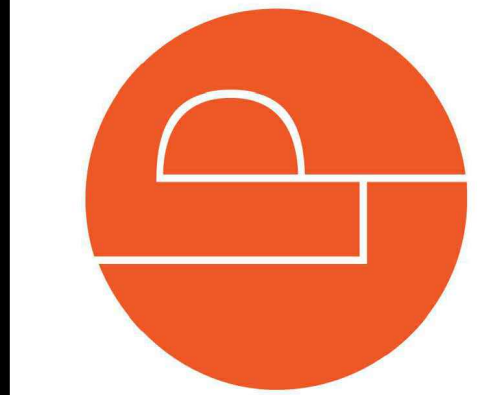
**WARREN COUNTY
CAREER CENTER
MEDICAL ACADEMY**

3525 OH-46, Lebanon, OH 45036



PROJECT NO.:
PROJECT #263306.00
CHECKED BY: J. SHAW
DRAWN BY: K. LAGRANGE
DATE: 02.22.2026

**LEVIN PORTER
ARCHITECTS**
3011 DELUMARK DRIVE
MIDDLETOWN, OHIO 45342
www.levin-porter.com
Levin Porter Associates Inc. dba Levin Porter Architects



PLAYGROUND DETAILS

L101

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 IRC 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 S004 FOR SNOW DRIFT INFORMATION
5. RAIN LOAD:
RAIN LOAD INTENSITY (15-MINUTE INTENSITY)
BASIC WIND SPEED
ALLOWABLE WIND SPEED
RISK CATEGORY
EXPOSURE CATEGORY
INTERNAL PRESSURE COEFFICIENT (G Cp1)
COMPONENTS ARE CAPACITATING - SEE TABLE BELOW
6. WIND LOAD:
BASIC WIND SPEED
ALLOWABLE WIND SPEED
RISK CATEGORY
EXPOSURE CATEGORY
INTERNAL PRESSURE COEFFICIENT (G Cp1)
COMPONENTS ARE CAPACITATING - SEE TABLE BELOW
7. SEISMIC LOAD:
RISK CATEGORY
IMPORTANCE FACTOR (Ih)
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 (R=3, 0-2 1/2, C4-3)
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 TIE-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 S003 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 ASCF7 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 SPTS.
3. CONCRETE REQUIREMENTS AND LOCATION IN JOB:
- | CLASS | FC | MAX W/C RATIO | SPECIAL REQUIREMENTS |
|---------------------------------|----------|---------------|---|
| 1. FOOTINGS | 3000 PSI | | |
| 2. PIERS, WALLS, EQUIPMENT PADS | 3000 PSI | 0.55 | |
| 3. EXTERIOR CONCRETE | 4500 PSI | 0.45 | 6% +/- 1.5% AIR CONTENT |
| INTERIOR SLABS ON GRADE, | 3500 PSI | 0.50 | 3% MAX AIR CONTENT |
| 4. LEAN CONCRETE | 1500 PSI | | NO TESTS, SOFT SOIL REPLACE |
| 5. 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-LESTONCE 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.
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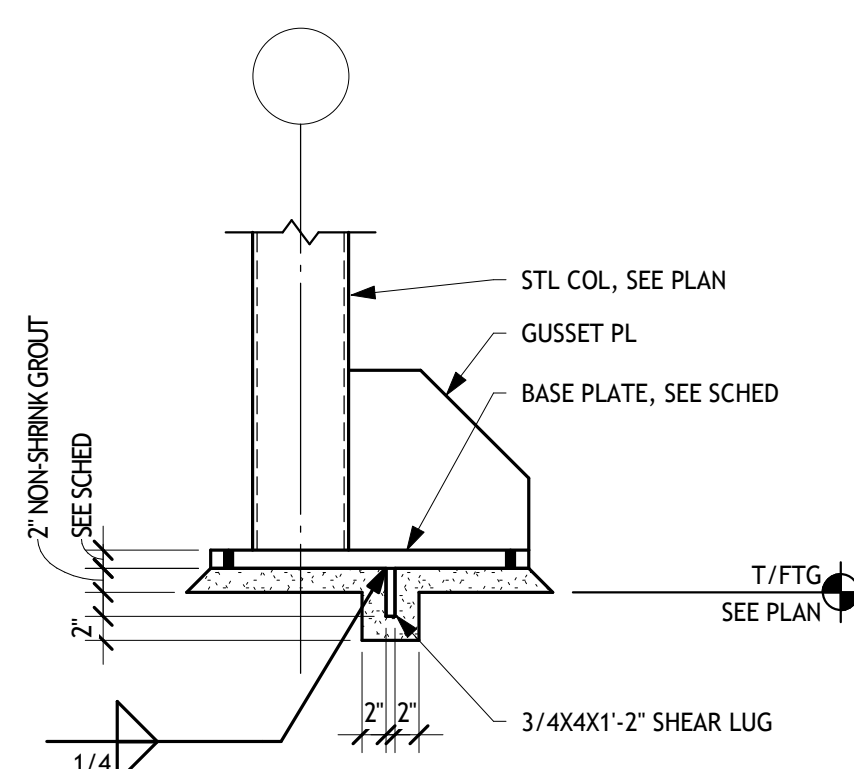
- NOTES:
a. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE BELOW THEM.
b. ALL LAP SPICES SHALL BE CLASS B UNLESS OTHERWISE NOTED.
c. VALUES ARE NORMAL WEIGHT CONCRETE NON-EPOXY COATED BARS.
d. LAP WELDED WIRE REINFORCING 1 SPACE + 2" AT ALL EDGES AND ENDS OF SHEETS.
13. OPENINGS:
A. CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE STRUCTURAL ENGINEER.
B. PROVIDE EQUIPMENT PADS, INERTIA 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.
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, INERTIA 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

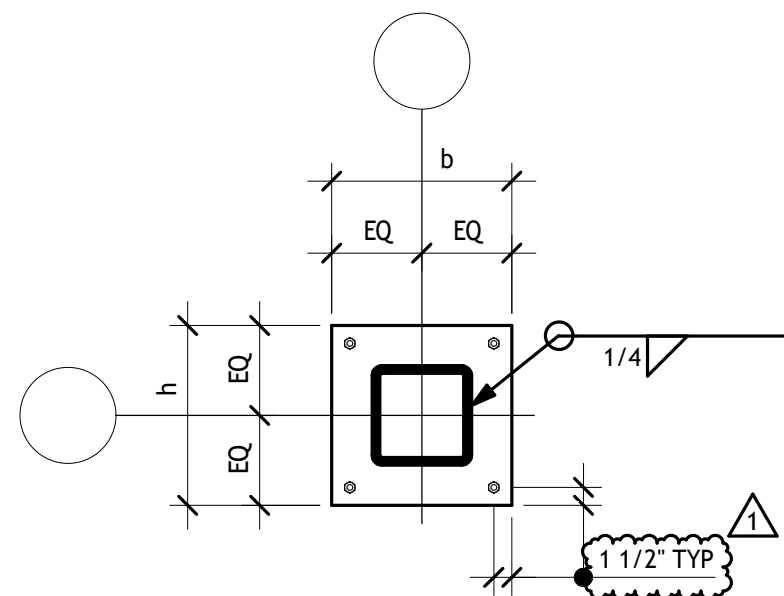
1. SPECIFICATIONS AND STANDARDS:
UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION AND ERECTION SHALL CONFORM TO THE REQUIREMENTS OF THIS SECTION.
A. ANS/AISC 360 - SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS. LRFD
B. AISC 303 - CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
C. AWS 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. RCSC - 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 F1554 GRADE A325, TYPE I, HEAVY-HEX STEEL STRUCTURAL BOLTS.
G. ANCHOR RODS: ASTM F1554 GRADE 36.
H. NUTS AND WASHERS: ASTM A563, GRADE DH, HEAVY-HEX CARBON-STEEL NUTS; AND ASTM F436, TYPE I, HARDENED CARBON-STEEL WASHERS.
I. PAINT AND PROTECTION - NONE EXCEPT AS NOTED BELOW:
• 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 SMBH 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 4" 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

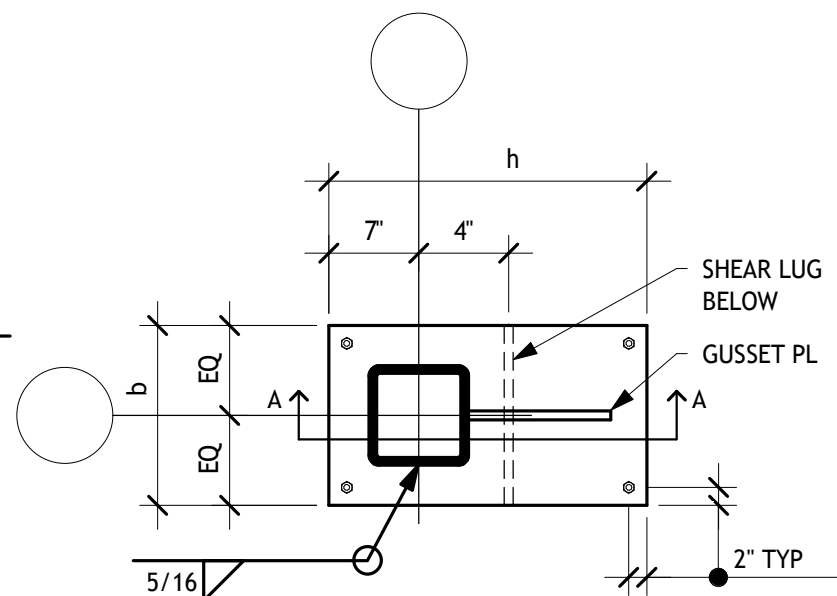
1. DESIGN, MANUFACTURING, AND ERECTION: ACCORDING TO THE STANDARD SPECIFICATIONS, LOAD TABLES & WEIGHT TABLES FOR STEEL JOISTS & JOIST GIRDERS ADOPTED BY THE STEEL JOIST INSTITUTE.
2. PAINT ALL JOISTS WITH MANUFACTURERS STANDARD SHOP PRIMER UNLESS OTHERWISE SPECIFIED BY THE ARCHITECT.
3. PROVIDE ADDITIONAL 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 BRID



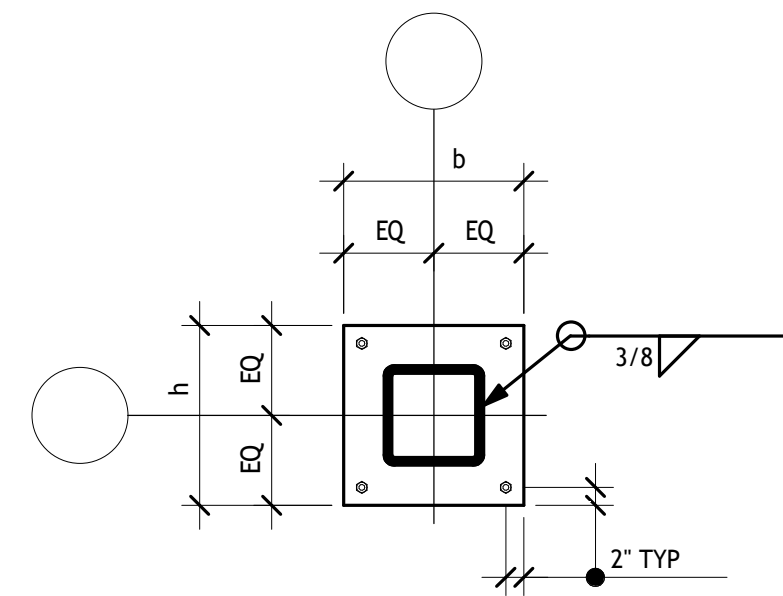
A-A



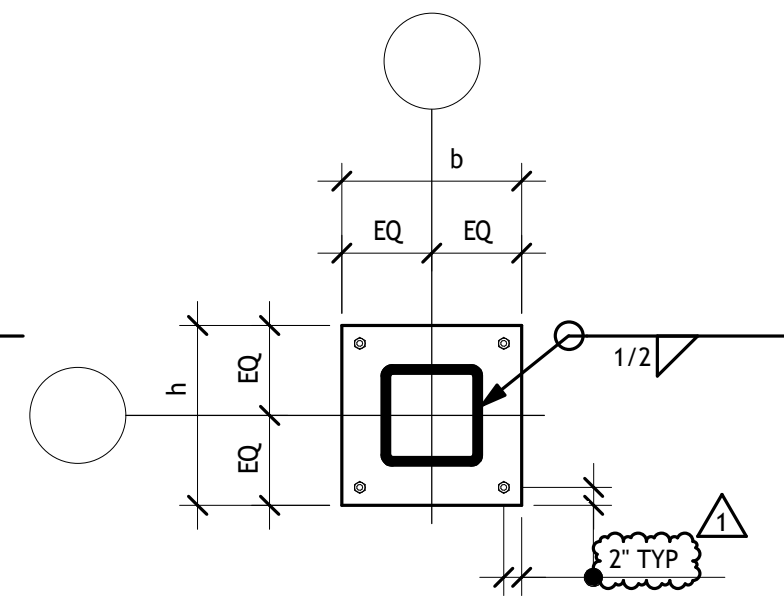
TYPE I



TYPE II

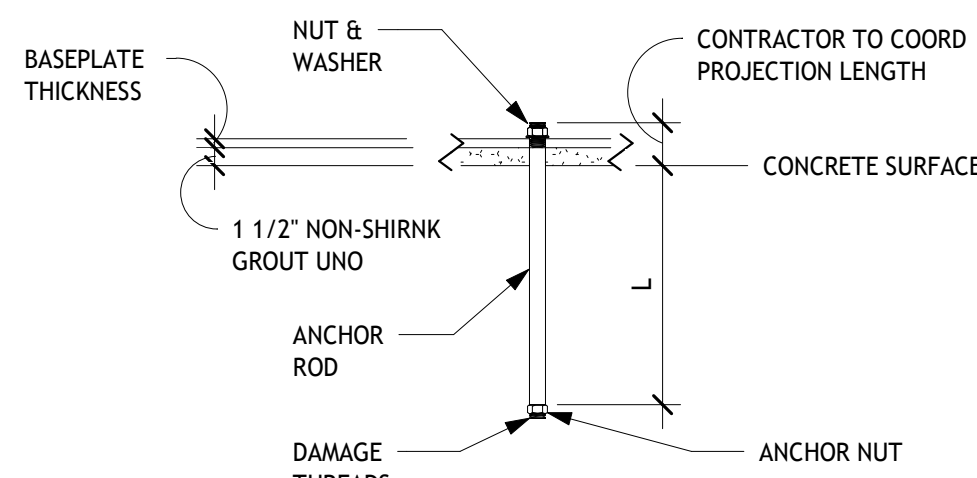


TYPE III



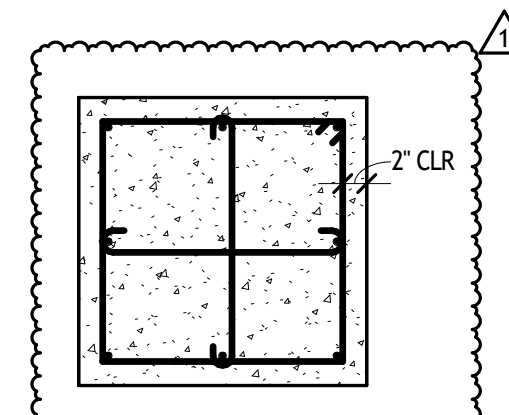
TYPE IV

COLUMN BASE PLATE TYPES



1. L = ANCHOR ROD EMBEDMENT (8" MIN UNO)
2. TYPICAL ANCHOR ROD DESIGNATION
— Ø X L A. ROD

TYPICAL ANCHOR ROD DETAIL



TYPE 1

PIER TYPES

LINTEL SCHEDULE		
MARK	SIZE	BRG/REMARKS
A	LSX3 1/2X3/8	
B	3/8x4x0-8\" BENT PL.	

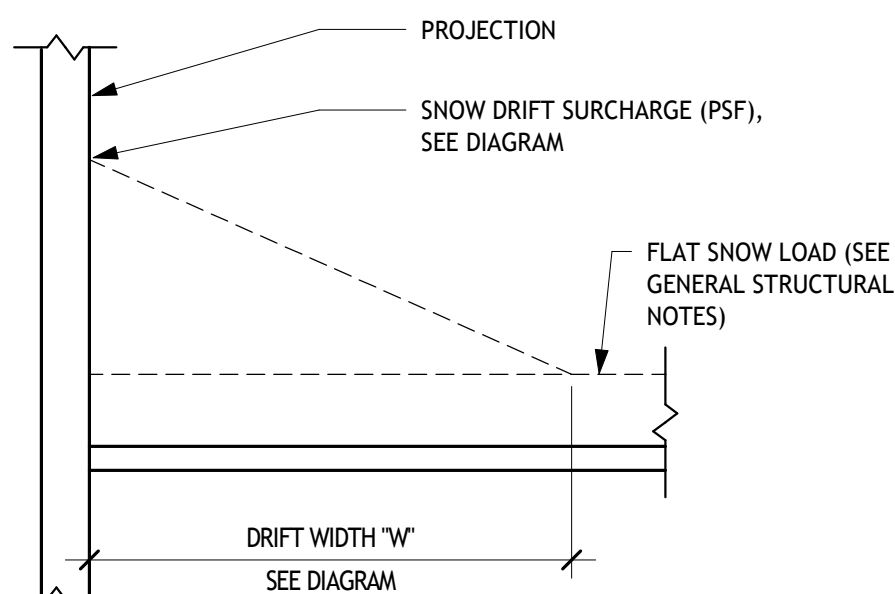
1. ALL LINTELS HAVE A MINIMUM OF 8\" BEARING, UNLESS NOTED.
2. LONG LEG VERTICAL ON ANGLES UNLESS NOTED.
3. SEE ARCH DRAWINGS FOR VERTICAL LOCATION OF LINTELS.

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 0-9\"	1 1/2\" NON-SHRINK GROUT
C2	HSS60X3/8	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 1/4X16X1-4\", TYPE IV	(4) 1 1/2\" Ø x 1-9\"	2\" NON-SHRINK GROUT
C5	HSS80X5/8	1 1/4X16X1-4\", TYPE IV	(4) 1 1/2\" Ø x 1-9\"	2\" NON-SHRINK GROUT
C6	HSS60X1/4	3/4X12X1-0\", TYPE I	(4) 3/4\" Ø x 0-9\"	1 1/2\" NON-SHRINK GROUT

PIER SCHEDULE				
MARK	WIDTH	LENGTH	REINFORCING	REMARKS
P1	2'-6\"	2'-6\"	(8) #7 VERT W/ #3 TIES @ 12\" C/C	
P2	3'-0\"	3'-0\"	(8) #8 VERT W/ #3 TIES @ 6\" C/C	
P4	1'-6\"	1'-6\"	(4) #6 VERT W/ #3 TIES @ 12\" C/C	

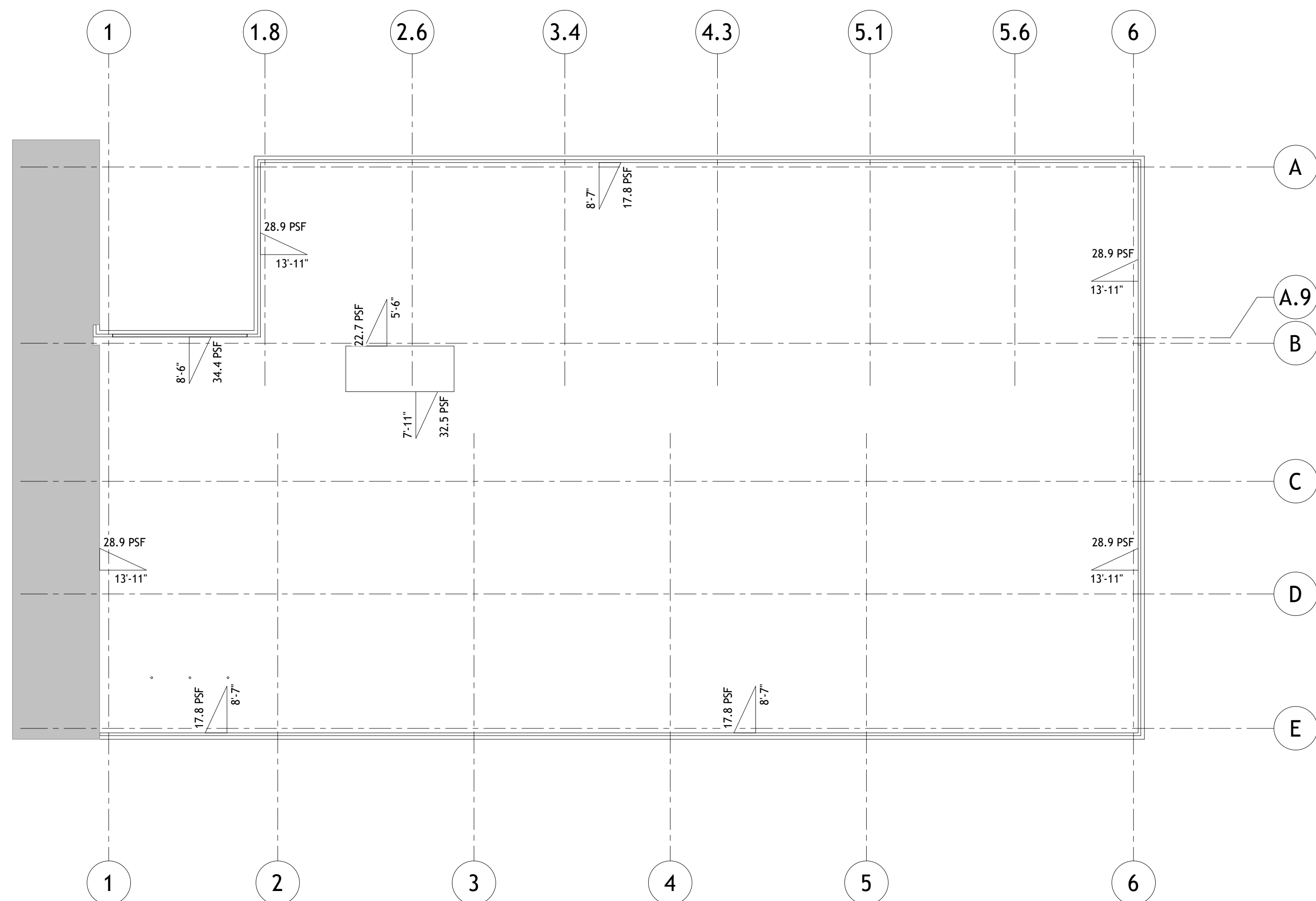
FOOTING SCHEDULE - ISOLATED FOOTINGS					
TYPE	WIDTH	LENGTH	THICKNESS	REINFORCING	REMARKS
46	4'-6\"	4'-6\"	1'-6\"	(4) #6 EW TGB	
60	6'-0\"	6'-0\"	1'-0\"	(5) #5 EWB	
66	6'-6\"	6'-6\"	1'-2\"	(5) #6 EWB	
66A	6'-6\"	6'-6\"	1'-2\"	(5) #6 EW TGB	
76	7'-6\"	7'-6\"	1'-6\"	(8) #6 EW TGB	
76A	7'-6\"	7'-6\"	1'-6\"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

FOOTING SCHEDULE - WALL FOOTINGS					
TYPE	WIDTH	LENGTH	THICKNESS	REINFORCING	REMARKS
W24	2'-0\"	CONT	1'-0\"	(2) #5 CONT	
W48	4'-0\"	CONT	1'-2\"	(4) #5 CONT	SEE 2/S302
W54	4'-6\"	CONT	1'-2\"	(5) #5 CONT	SEE 2/S302



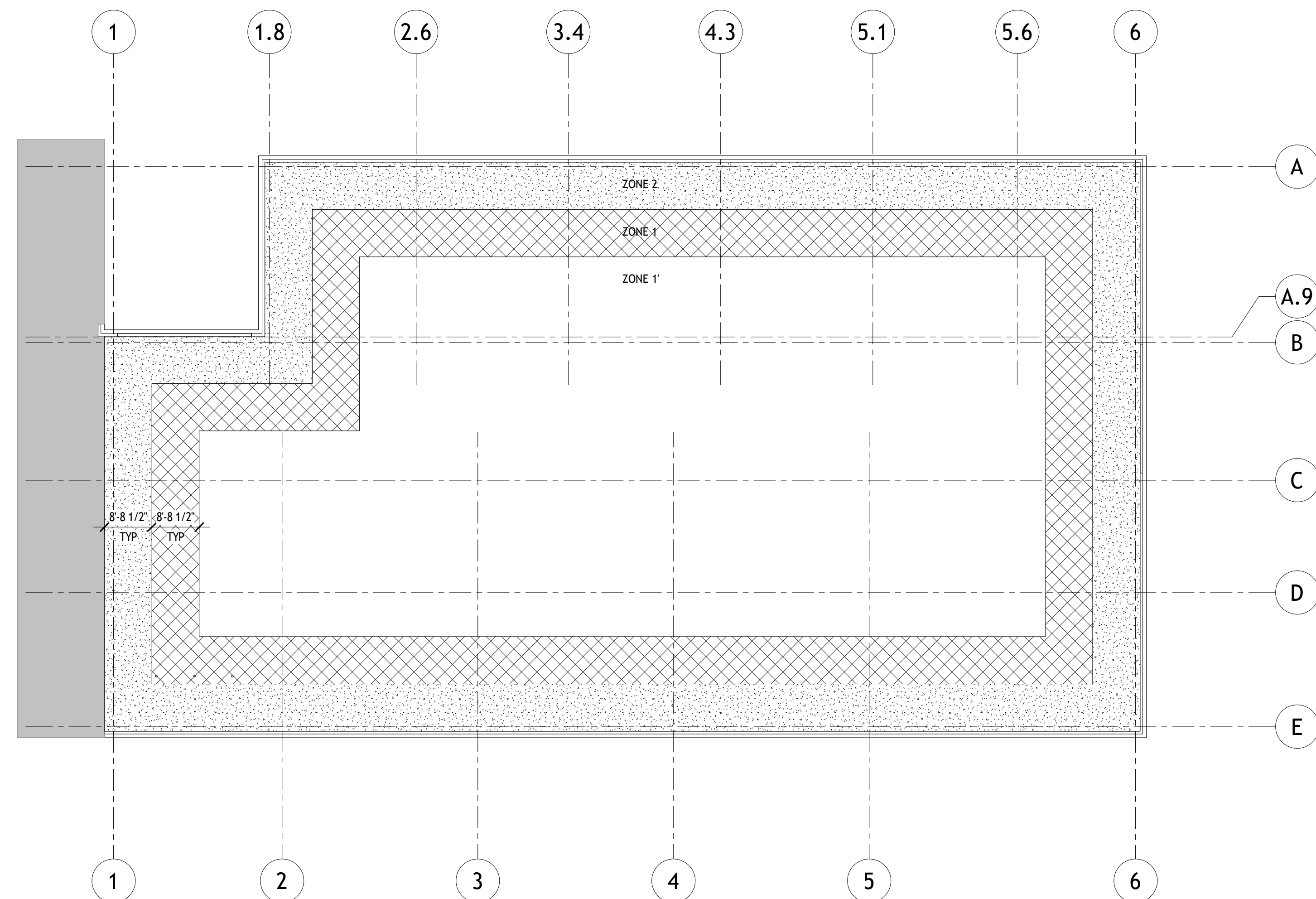
1. VALUES IN DIAGRAM ARE SURCHARGE SNOW LOADS (ASD) ADDED TO THE UNIFORM FLAT SNOW LOAD. SEE S002 FOR GENERAL INFORMATION ON SNOW LOADS.

SNOW DRIFT DETAIL



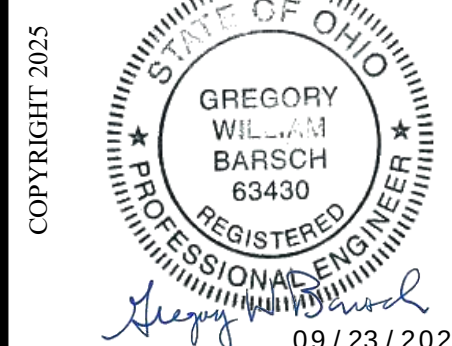
SNOW LOADING DIAGRAM

1. SEE GENERAL NOTES ON S002 FOR ADDITIONAL SNOW PARAMETERS.



WIND UPLIFT DIAGRAM

1. SEE GENERAL NOTES ON S002 FOR ADDITIONAL LOAD PARAMETERS.
2. 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
		1	Bidding Addendum 1	9/25/25

PRINTINGS:		Bld / Permit Set	09/15/2025
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3525 OH-48 Lebanon, OH 45036

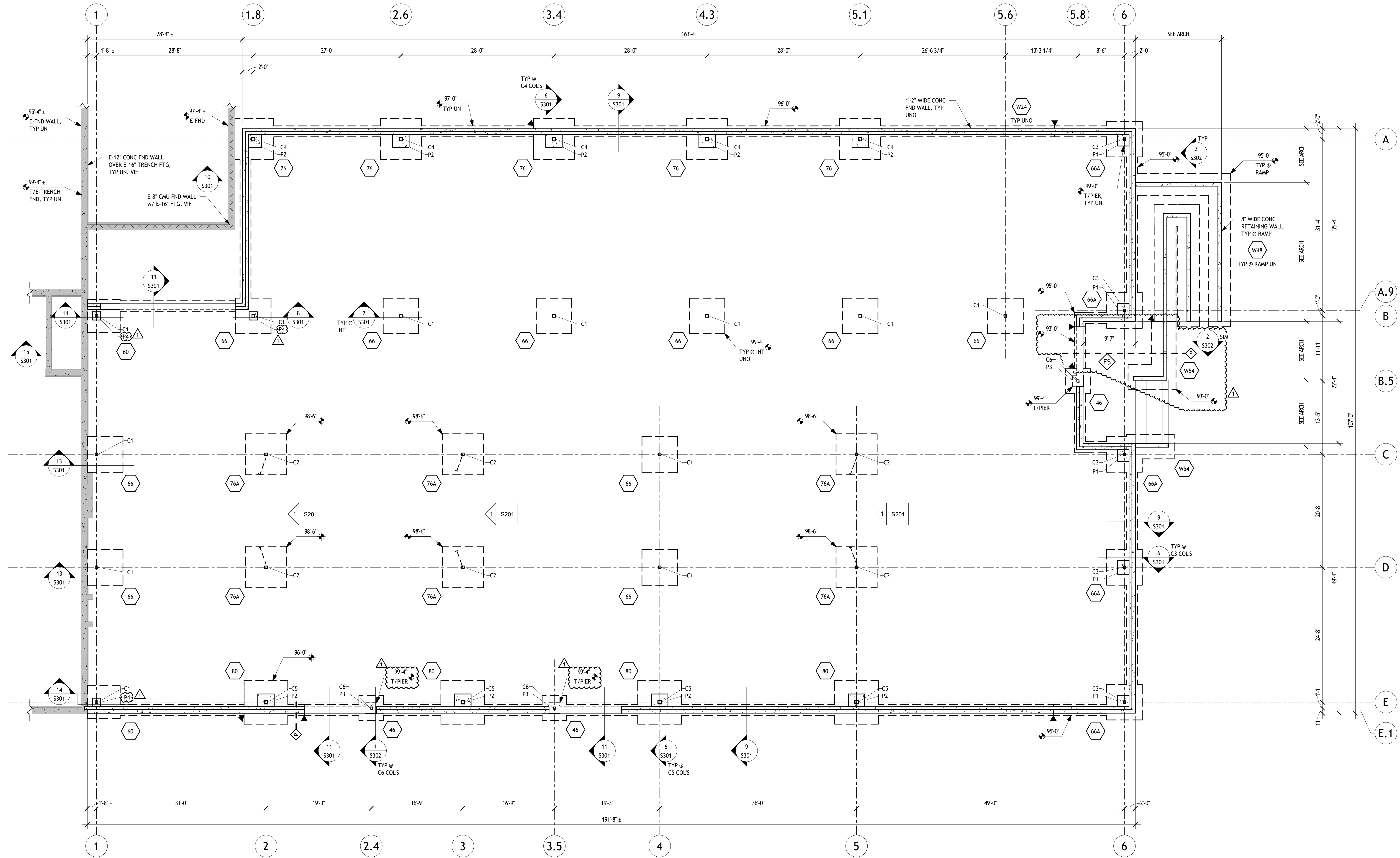
PROJECT NO:	PROJECT	CHECKED BY:	DATE
#263306.00	MK	CLC	09/15/2025

**LEVIN PORTER
ARCHITECTS**
3011 DELUMARK DRIVE
MARIETTA, OHIO 45754
www.levin-porter.com
Levin Porter Associates Inc. dba Levin Porter architects



STRUCTURAL
SCHEDULES, TYPICAL
DETAILS & DIAGRAMS

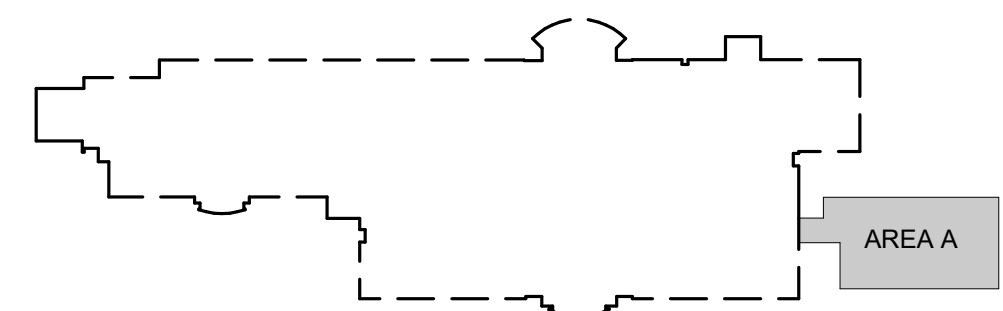
S004



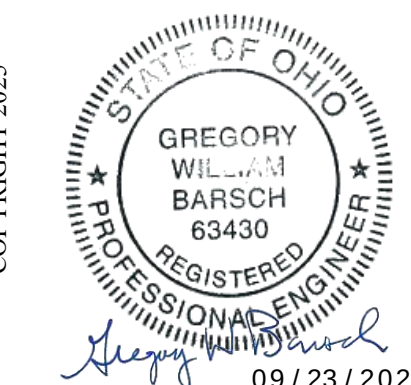
FOUNDATION PLAN

1/8" = 1'-0"

- VERIFY LOCATIONS OF COLUMNS, WALLS, OPENINGS, ETC., WITH ARCHITECTURAL DRAWINGS BEFORE PLACING FOUNDATIONS.
 - 4" SLAB ON GRADE WITH 6x6-W1, 4xW1, 4 WWR. TYPICAL EXCEPT AS NOTED. PROVIDE 6" OF GRANULAR SUBGRADE BELOW SLAB UNLESS NOTED OTHERWISE IN THE REFERENCED GEOTECHNICAL REPORT.
 - TOP OF SLAB ELEVATION 100'-0" EXCEPT AS NOTED. SEE CIVIL DRAWINGS FOR REFERENCE SITE ELEVATION.
 - DESIGN SOIL BEARING CAPACITY AND ANY SOFT SPOTS OR VARIATIONS IN SUBSURFACE CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER. THE DESIGN BEARING CAPACITY SHALL BE FIELD VERIFIED BY AN INDEPENDENT TESTING AGENCY SPECIALIZING IN SOIL INVESTIGATIONS. GEOTECHNICAL INFORMATION INCLUDED IN THE CONSTRUCTION DOCUMENTS WAS OBTAINED FROM A REPORT ISSUED BY KOONTZ BRYANT JOHNSON WILLIAMS, PROJECT NUMBER 40381-001-01-0926, DATED SEPTEMBER 15, 2026.
 - INFORMATION FOR THE EXISTING BUILDING HAS BEEN TAKEN FROM DRAWINGS AND HAS NOT BEEN VERIFIED IN THE FIELD. CONTRACTOR SHALL VERIFY ALL RELEVANT CONDITIONS AND DIMENSIONS OF EXISTING CONSTRUCTION BEFORE PROCEEDING WITH THE WORK.
 - ELEVATIONS SHOWN ON PLAN ARE TOP OF THE FOOTING OR SLAB.
 - TOP OF FOOTING ELEVATION 99'-0" UNLESS NOTED.
 - FOOTINGS TO CENTER UNDER COLUMN OR WALL UNLESS NOTED.
 - CONTRACTOR SHALL PROVIDE FLOOR CONTROL AND CONSTRUCTION JOINTS IN SLAB ON GRADE IN ACCORDANCE WITH SECTIONS 1, 2 & 3.00.
 - ALL EXTERIOR FOOTINGS ARE TO EXTEND A MINIMUM OF 3'-0" BELOW FINISHED GRADE OR TO LOCALLY RECOGNIZED FROST DEPTH.
 - WHERE FILL IS ON BOTH SIDES OF THE FOUNDATION WALLS, INSTALL THE FILL UNIFORMLY ON BOTH SIDES OF THE WALL.
 - REFERENCE: GENERAL STRUCTURAL NOTES - S002; COLUMN SCHEDULE - S004.
13. SYMBOL LEGEND:
- INDICATES TOP OF FOOTING ON PLAN.
 - INDICATES FOOTING MARK. SEE SCHEDULE ON SHEET S004.
 - INDICATES APPROXIMATE LOCATION OF STEP IN FOOTING ON PLAN. SEE SECTION 4/ S301.
 - INDICATES FROST SLAB. SEE SECTION 5/ S301.
 - INDICATES COLUMN (OR PIER) ON PLAN. SEE SCHEDULE ON SHEET S004.
 - INDICATES APPROXIMATE LOCATION OF PLUMBING UNDER SLAB ON PLAN. COORDINATE WITH MEP.



KEY PLAN



REVISIONS:		
Number	Description	Date
1	Bidding Addendum 1	9/25/26

PRINTINGS:		
Bld / Permit Set	09/15/2026	

CONSULTANTS

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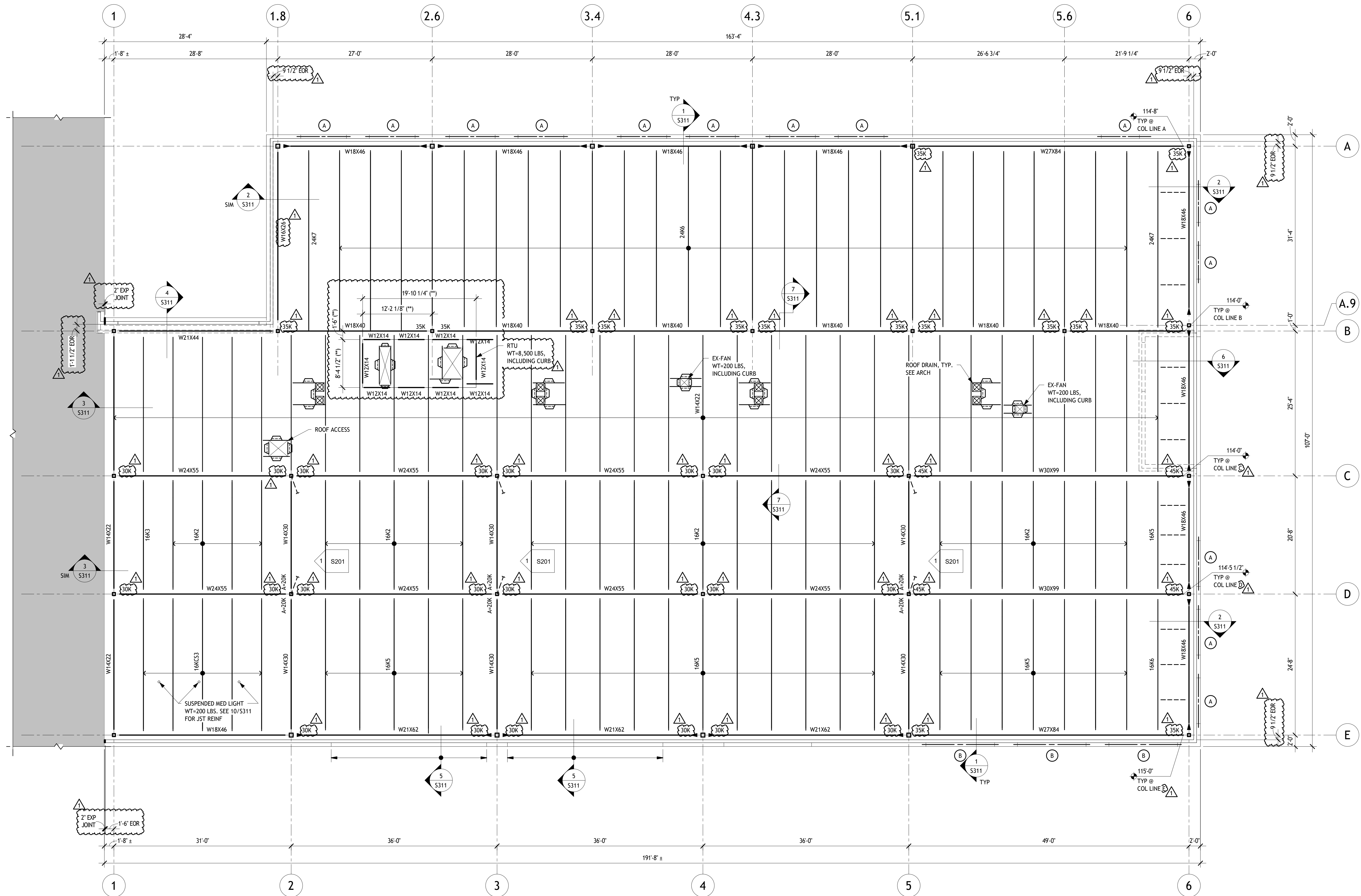
PROJECT NO:	PROJECT
#263306.00	CHECKED BY:
MM	DATE:
CLC	09/15/2026

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MARIETTA, OHIO 45754
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FOUNDATION PLAN

S101

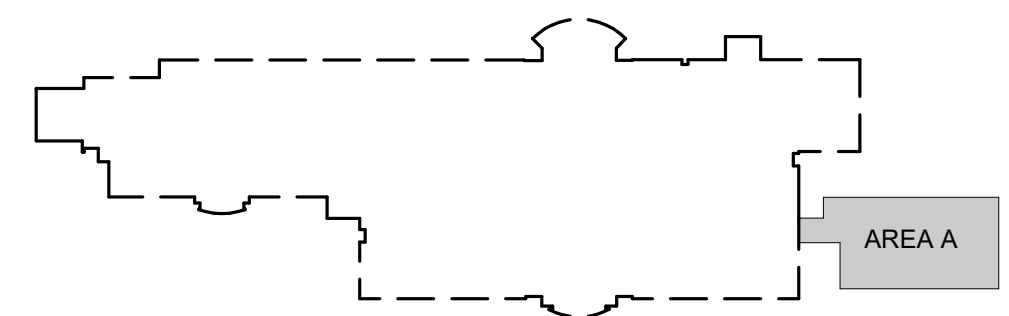


ROOF FRAMING PLAN

1/8" = 1'-0"

- DESIGN LIVE LOADS: ROOF LIVE LOAD = 20 PSF (REDUCIBLE). SEE GENERAL STRUCTURAL NOTES FOR ROOF SNOW LOAD.
- ROOF CONSTRUCTION: 1 1/2"x20 GAGE TYPE B GALVANIZED AND PRIME PAINTED METAL DECK.
- JOIST SUPPLIER TO DESIGN JOIST SEATS FOR A MINIMUM ROLLOVER FORCE OF 4.0 KIPS (LRFD - WIND AND SEISMIC), UNLESS NOTED OTHERWISE.
- JOIST BRIDGING - PROVIDE TOP AND BOTTOM CHORD BRIDGING AS REQUIRED BY SJI.
- JOISTS ARE UNIFORMLY SPACED BETWEEN COLUMNS OR BEAMS UNLESS NOTED OTHERWISE.
- PROVIDE 14X4X5/16 ANGLE FRAMES UNDER ROOFTOP UNIT CURBS UNLESS NOTED OTHERWISE. REFER TO SECTION 9/S311.
- REFERENCES: GENERAL STRUCTURAL NOTES - S002; COLUMN SCHEDULE - S004; LINTEL SCHEDULE - S004.
- SYMBOL LEGEND:

- INDICATES BOTTOM OF METAL DECK ELEVATION, UNLESS NOTED OTHERWISE.
- INDICATES BEAM REACTION IN KIPS (LRFD) - SAME BOTH ENDS EXCEPT AS SHOWN. DESIGN CONNECTION FOR A MINIMUM OF 25 KIPS WHERE NO REACTION IS SHOWN.
- INDICATES FRAMED OPENING - PROVIDE FRAME USING 2X12 ALL SIDES. REFER TO SECTION 9/S311 FOR ADDITIONAL INFORMATION. CONTRACTOR COORDINATE OPENING SIZES WITH MECHANICAL AND ARCHITECTURAL REQUIREMENTS. FRAMES ARE REQUIRED AT ROOF DRAINS. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR NUMBERS AND LOCATIONS.
- INDICATES MOMENT AND SHEAR CONNECTION ON PLAN. SEE SECTION 8/S311.
- INDICATES LINTEL TYPE. SEE SCHEDULE ON SHEET S004.
- INDICATES AXIAL DRAG LOAD (TENSION/COMPRESSION) ON PLANS IN KIPS (LRFD) AT END SHOWN. DESIGN BEAM END CONNECTIONS FOR DRAG FORCES IN ADDITION TO SHEAR.
- INDICATES LOCATION AND SIZE OF ROOF TOP UNIT TO BE COORDINATED WITH MECHANICAL DRAWINGS AND EQUIPMENT SUPPLIER.
- INDICATES BEAM BOTTOM FLANGE KICKER BRACE. SEE SECTIONS 2 & 6/S311.



KEY PLAN

PROJECT NO:
PROJECT #263306.00
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ROOF FRAMING PLAN

S111

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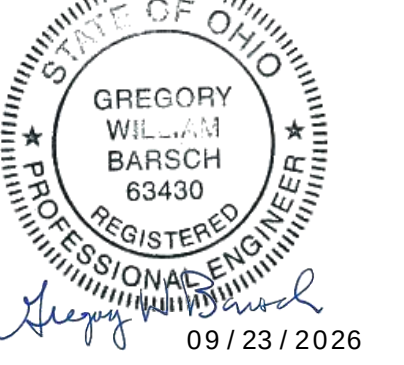
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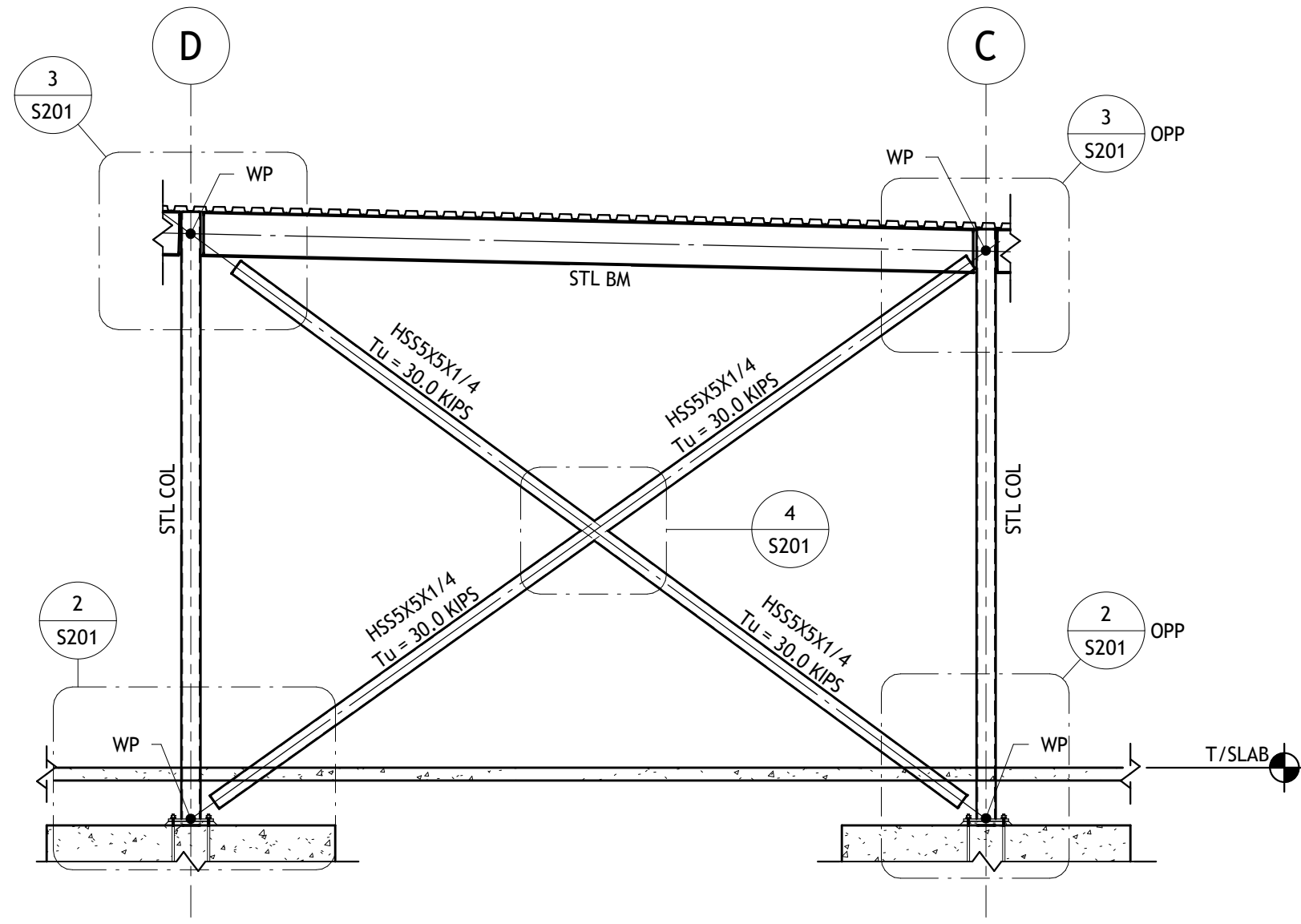
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1	Bidding Addendum 1	9/25/25

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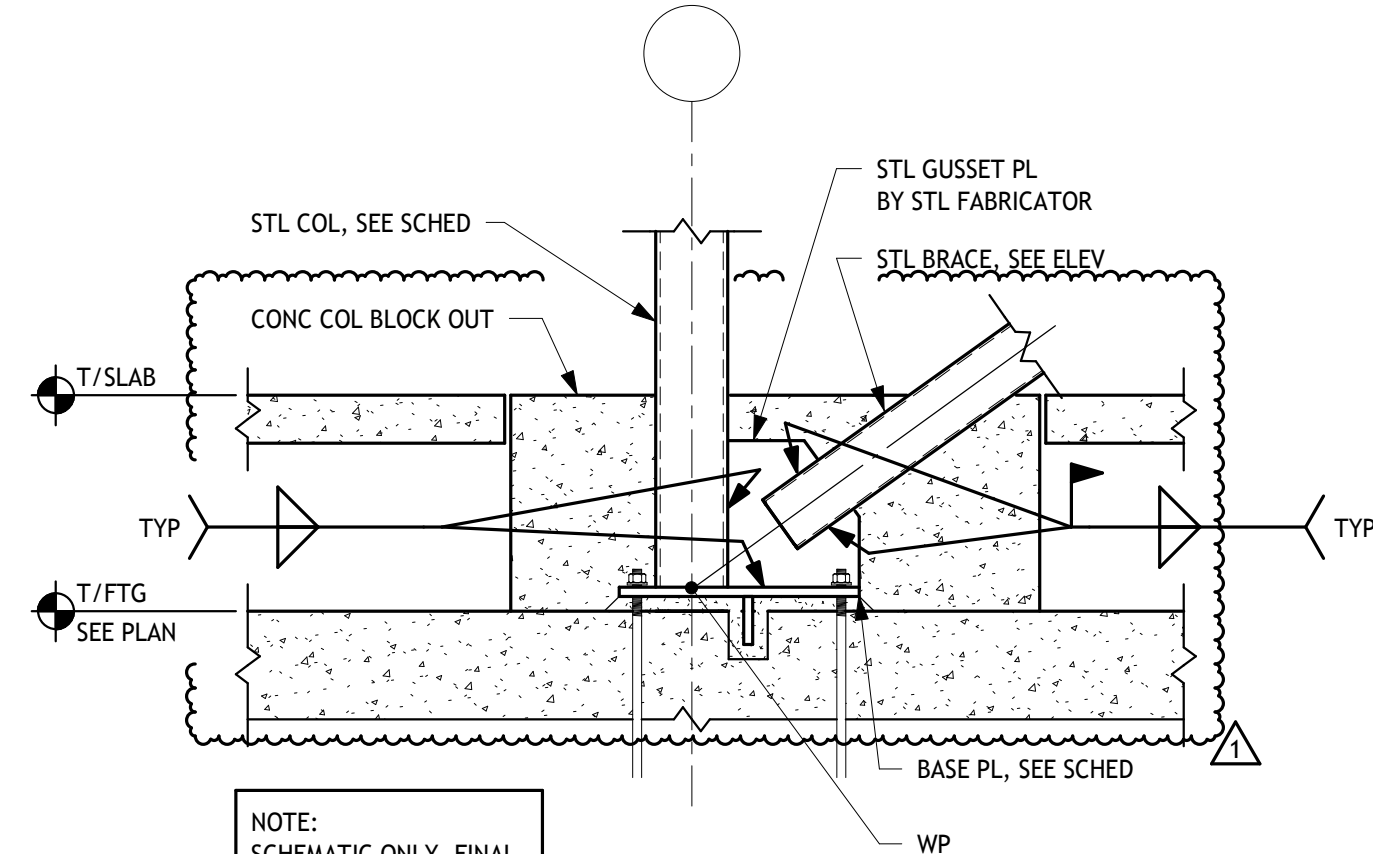
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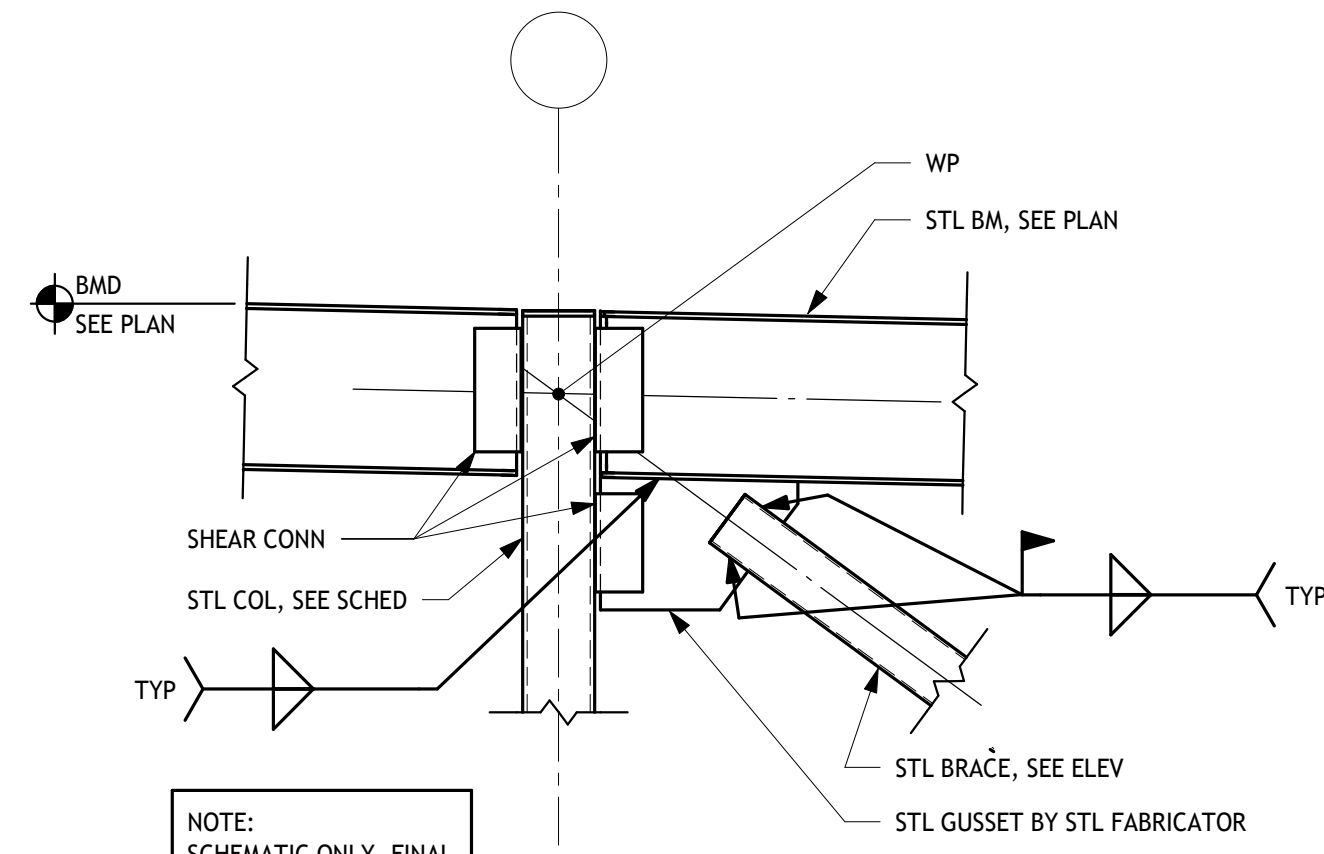


BRACED FRAME ELEVATION

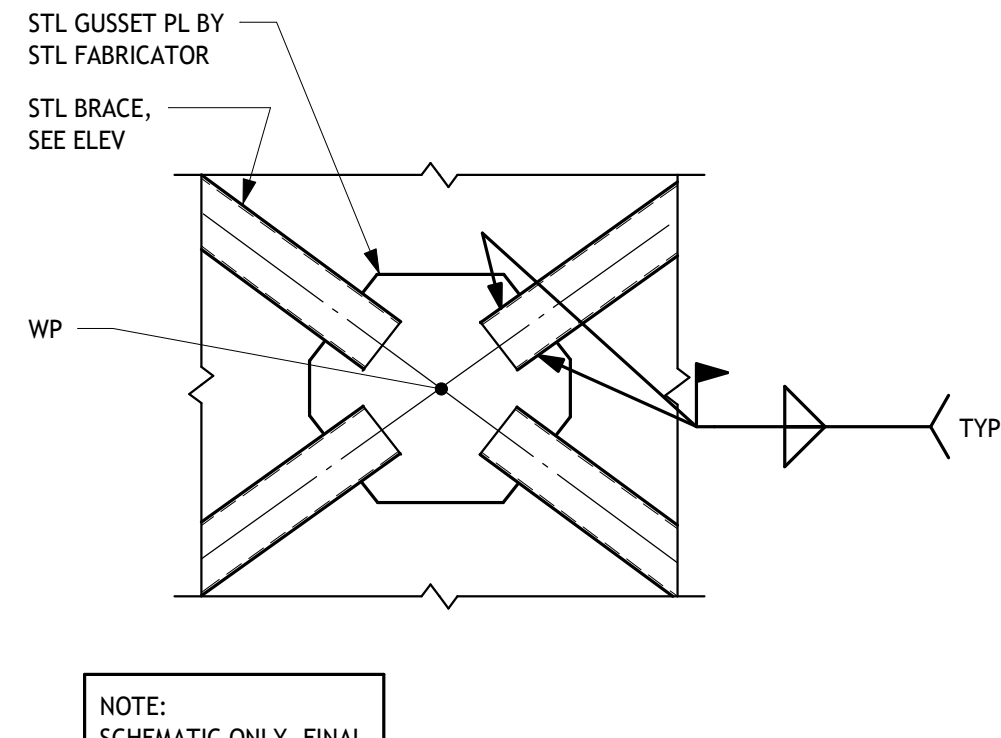
1. LOCATED ON GRIDLINES 2, 3, & 5; (3) FRAMES TOTAL.
2. Tu = X.X KIPS: INDICATES TENSION AXIAL FORCE ON ELEVATION. LOADS ARE ULTIMATE (LRFD).



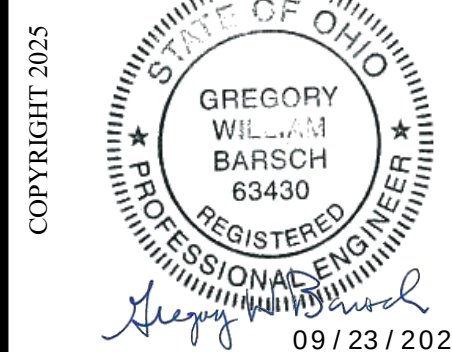
DETAIL



DETAIL



DETAIL



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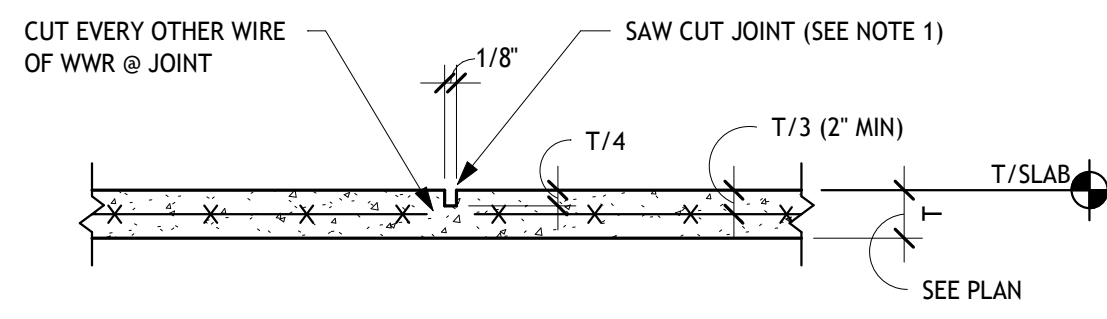
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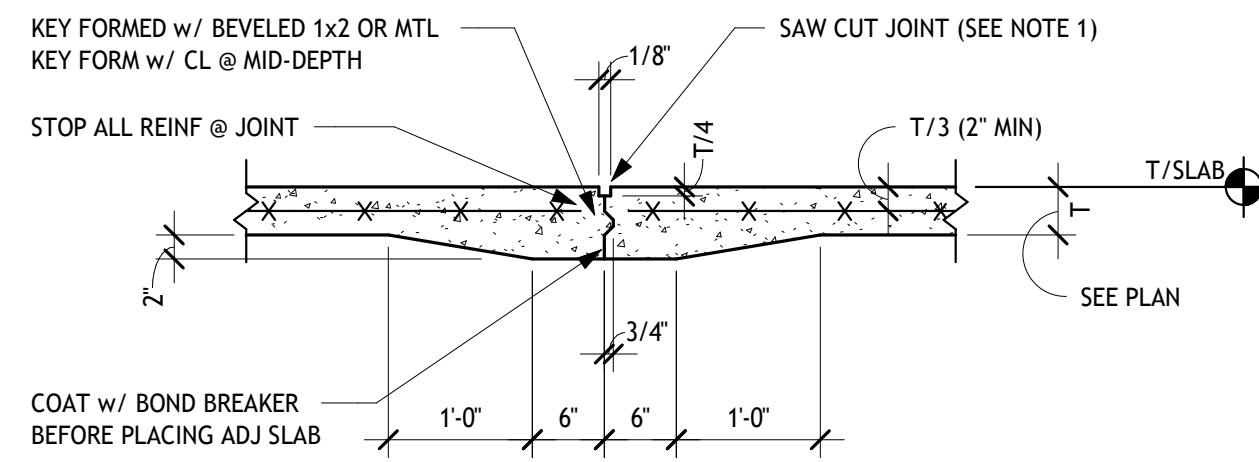
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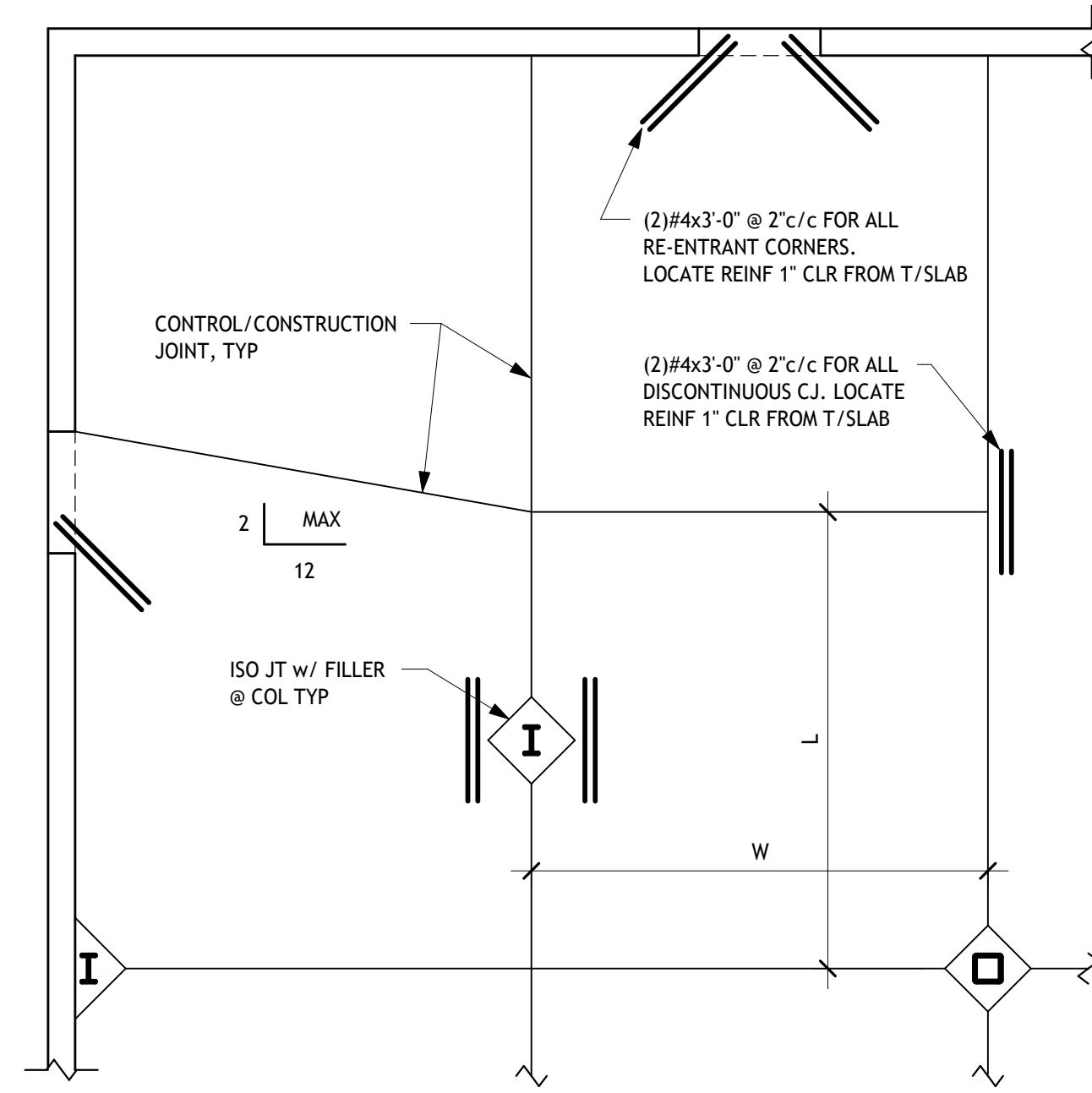
1. SAW CUTTING OF JOINTS SHALL BE DONE WHEN THE CONCRETE IS FIRM ENOUGH TO PERMIT CUTTING WITHOUT TEARING OR DAMAGE BY THE BLADE AND BEFORE RANDOM DRYING SHRINKAGE CRACKS CAN FORM, BUT NO MORE THAN 24 HOURS AFTER PLACING. FILL JOINT WITH JOINT SEALANT PER ARCH.

1
S301
DETAIL



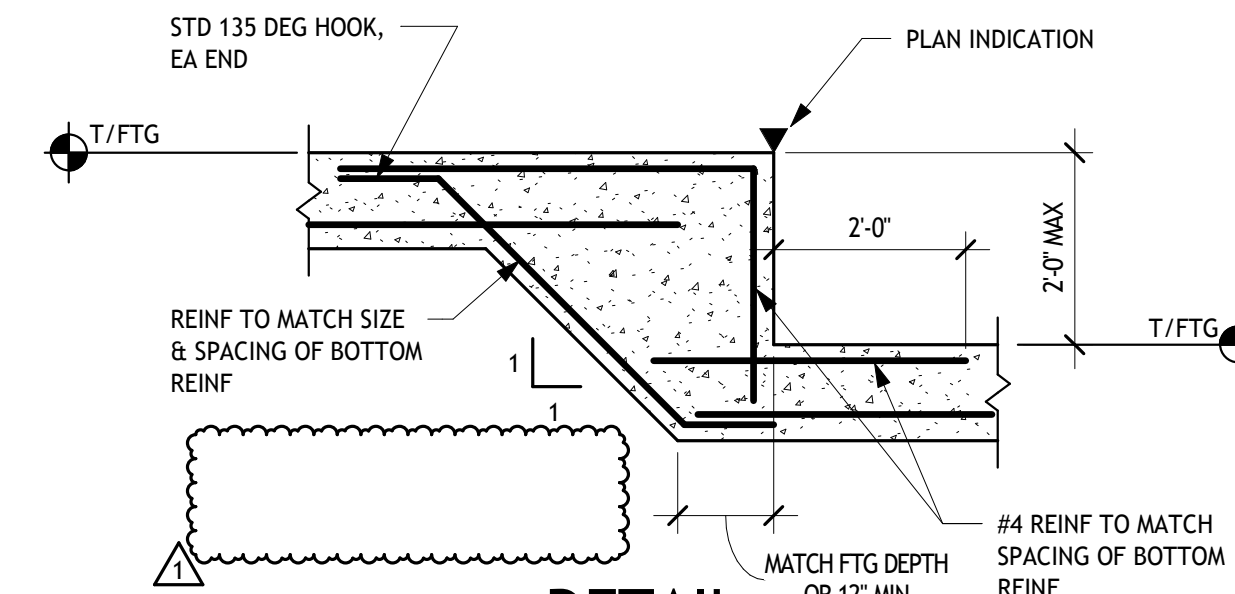
1. SAW CUTTING OF JOINTS SHALL BE DONE WHEN THE CONCRETE IS FIRM ENOUGH TO PERMIT CUTTING WITHOUT TEARING OR DAMAGE BY THE BLADE AND BEFORE RANDOM DRYING SHRINKAGE CRACKS CAN FORM, BUT NO MORE THAN 24 HOURS AFTER PLACING. FILL JOINT WITH JOINT SEALANT PER ARCH.

2
S301
DETAIL

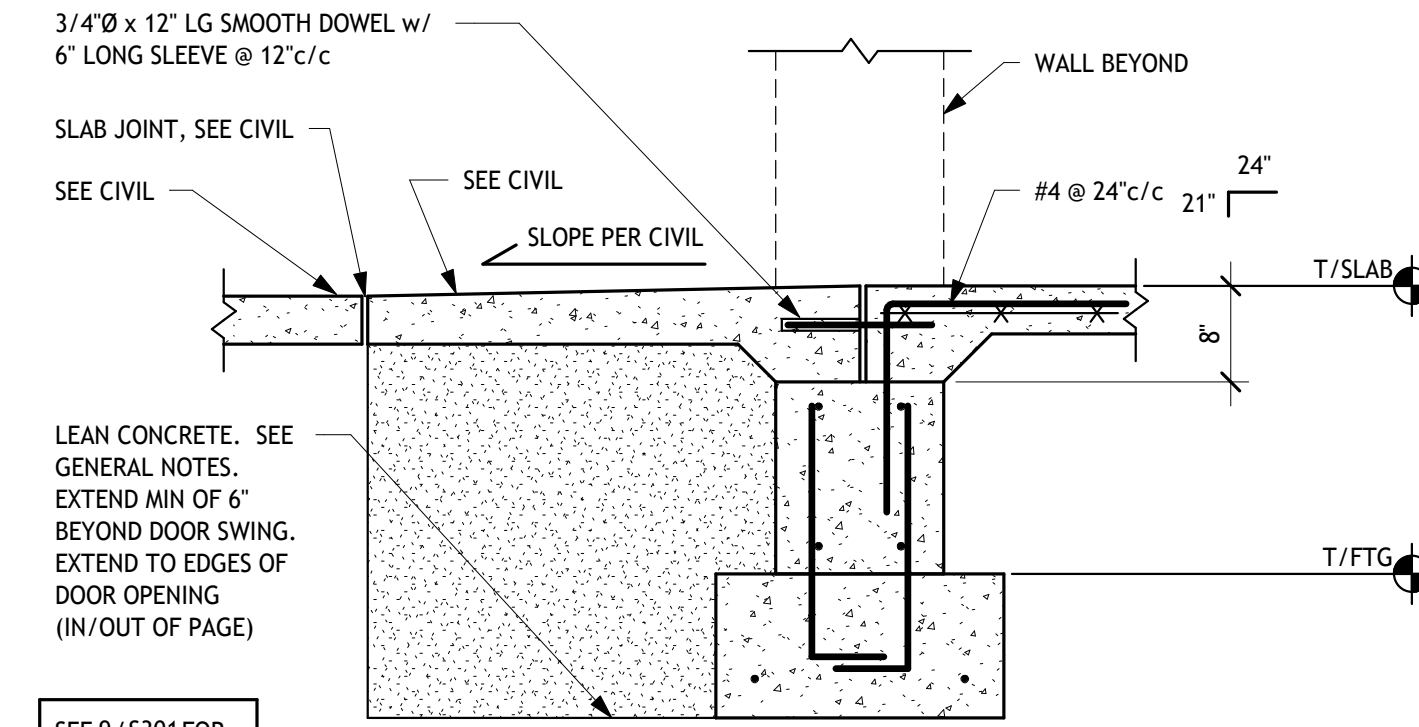


- NOTE:
1. JOINTS SHALL DIVIDE SLAB INTO AREAS AS SQUARE AS POSSIBLY (1.25 TO 1) FOR MAXIMUM LxW RATIO.
 2. MAXIMUM CONTROL/CONSTRUCTION JOINT SPACING SHALL BE 36 TIMES THE SLAB ON GRADE THICKNESS BUT SHALL NOT EXCEED 15'-0".

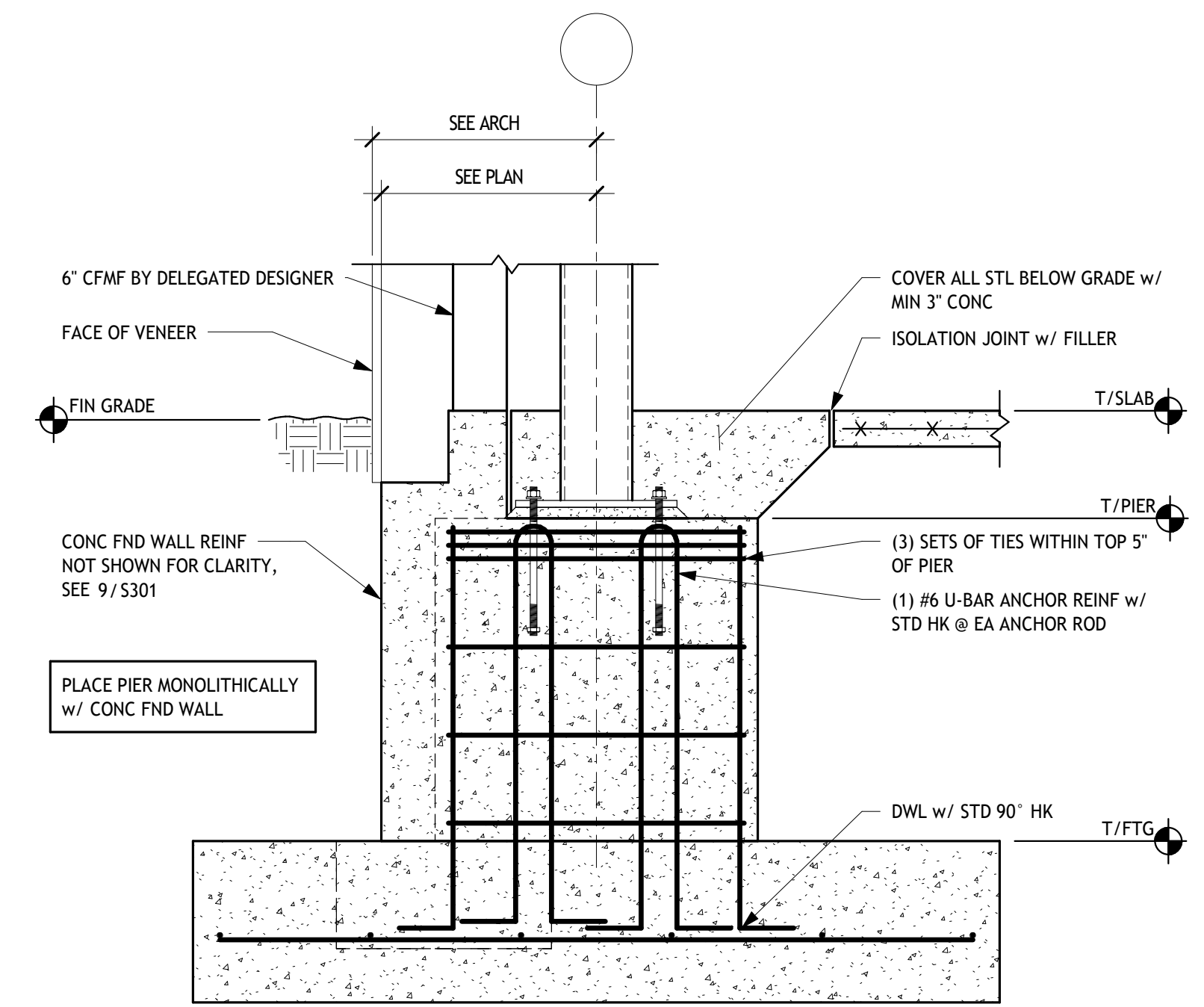
3
S301
CONSTRUCTION/CONTROL JOINT DETAIL



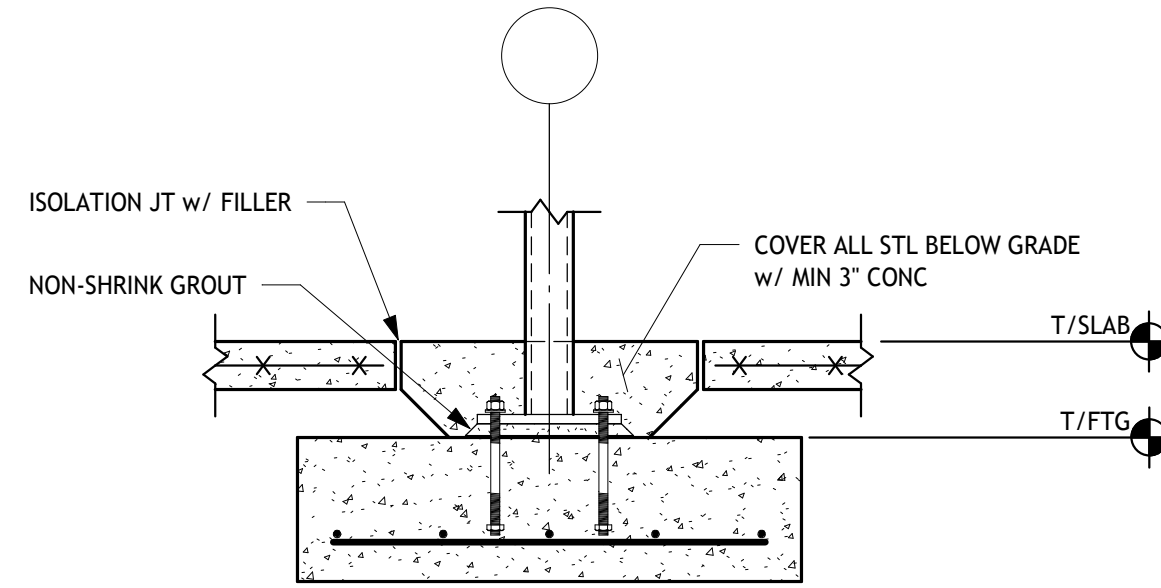
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S301
DETAIL



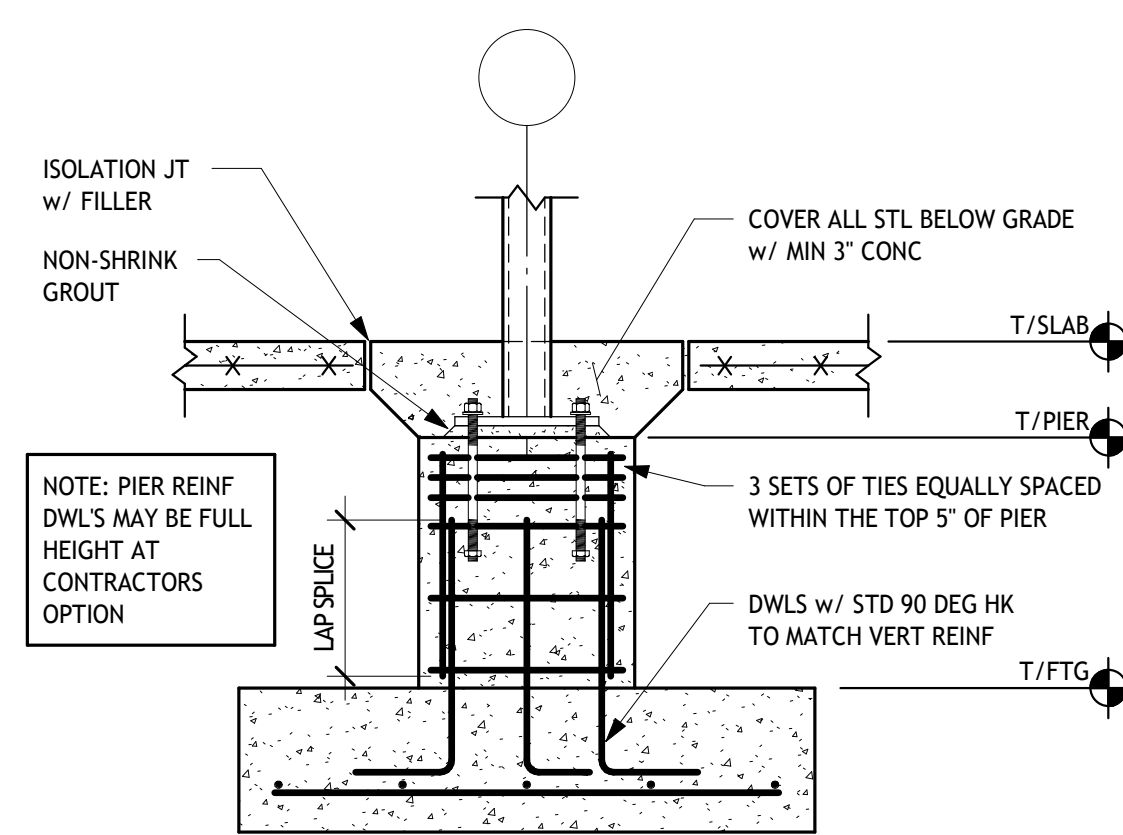
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S301
SECTION



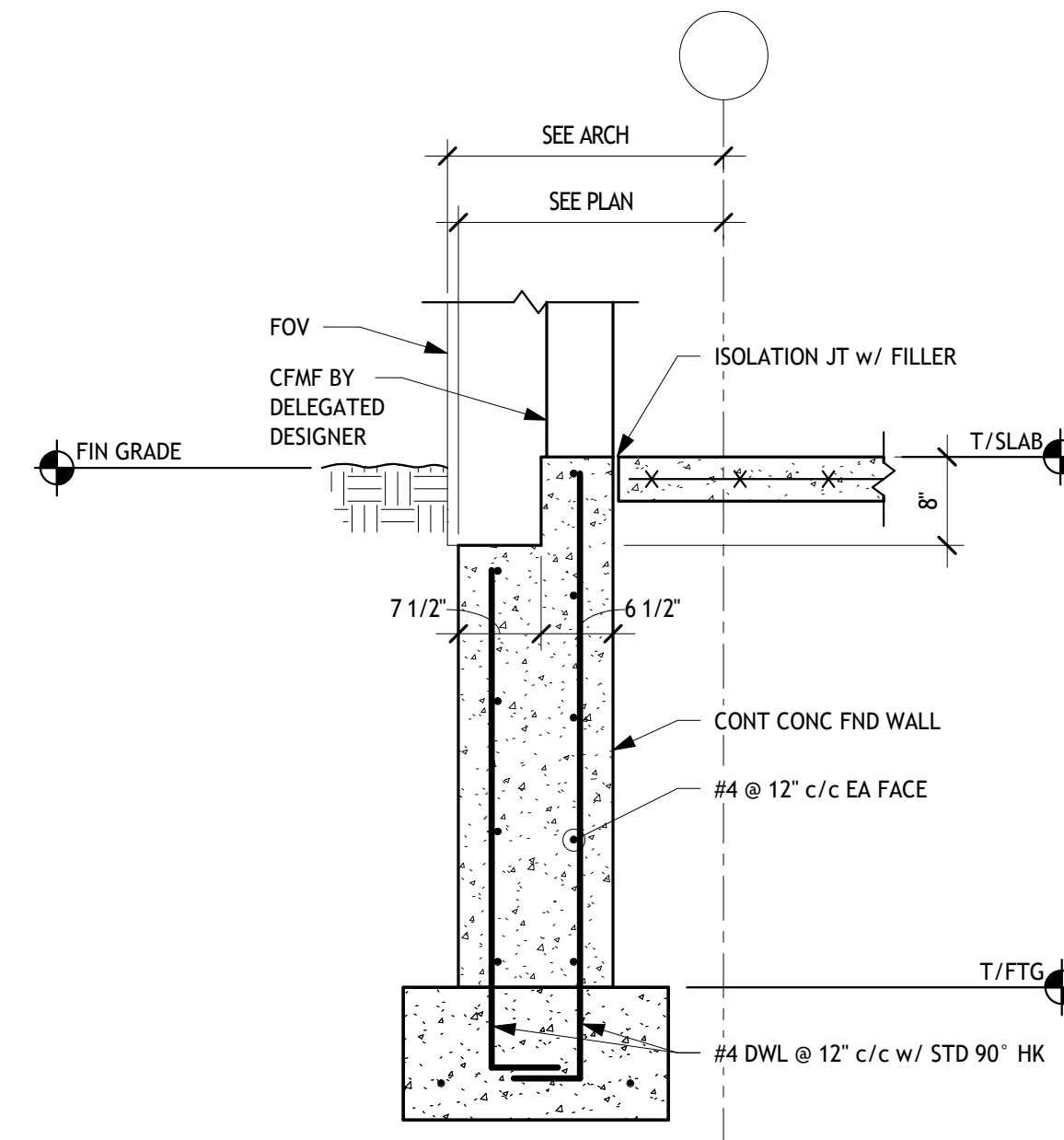
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S301
SECTION
3/4" = 1'-0"



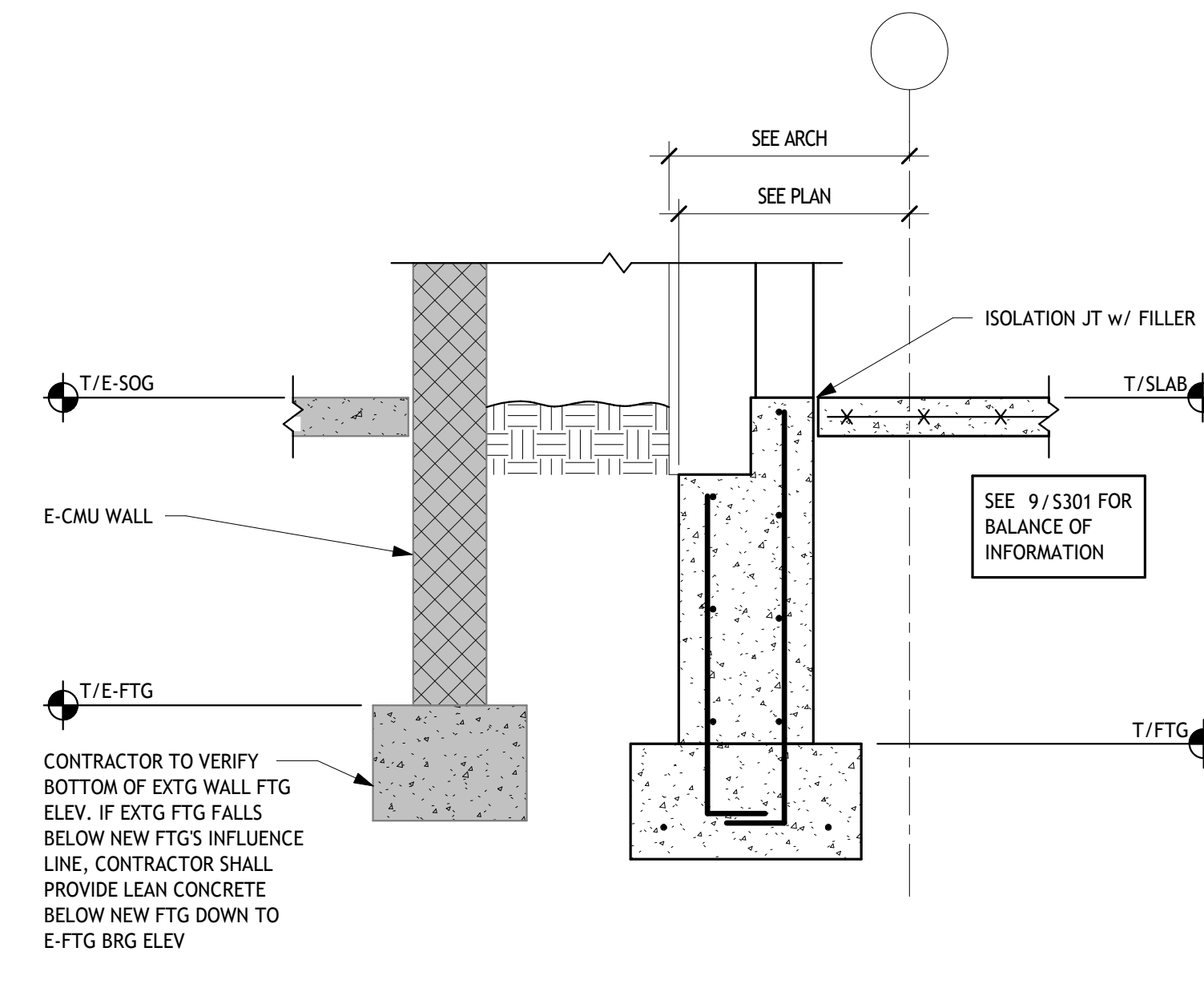
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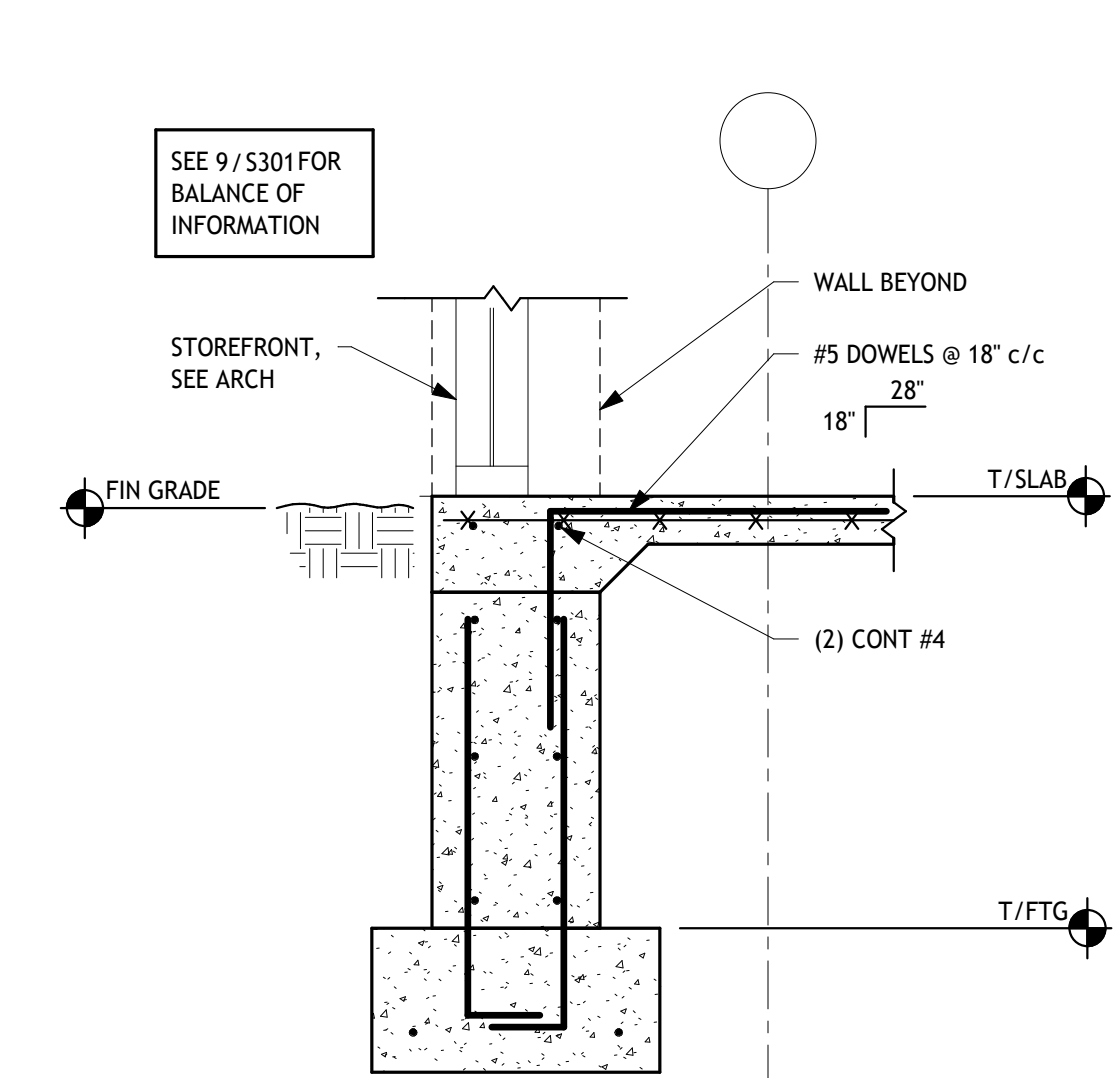
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SECTION



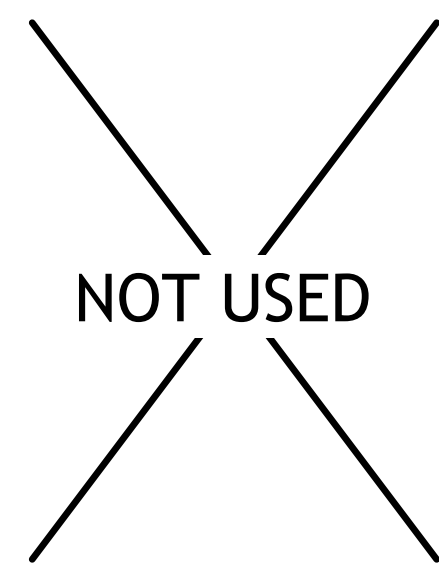
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3/4" = 1'-0"



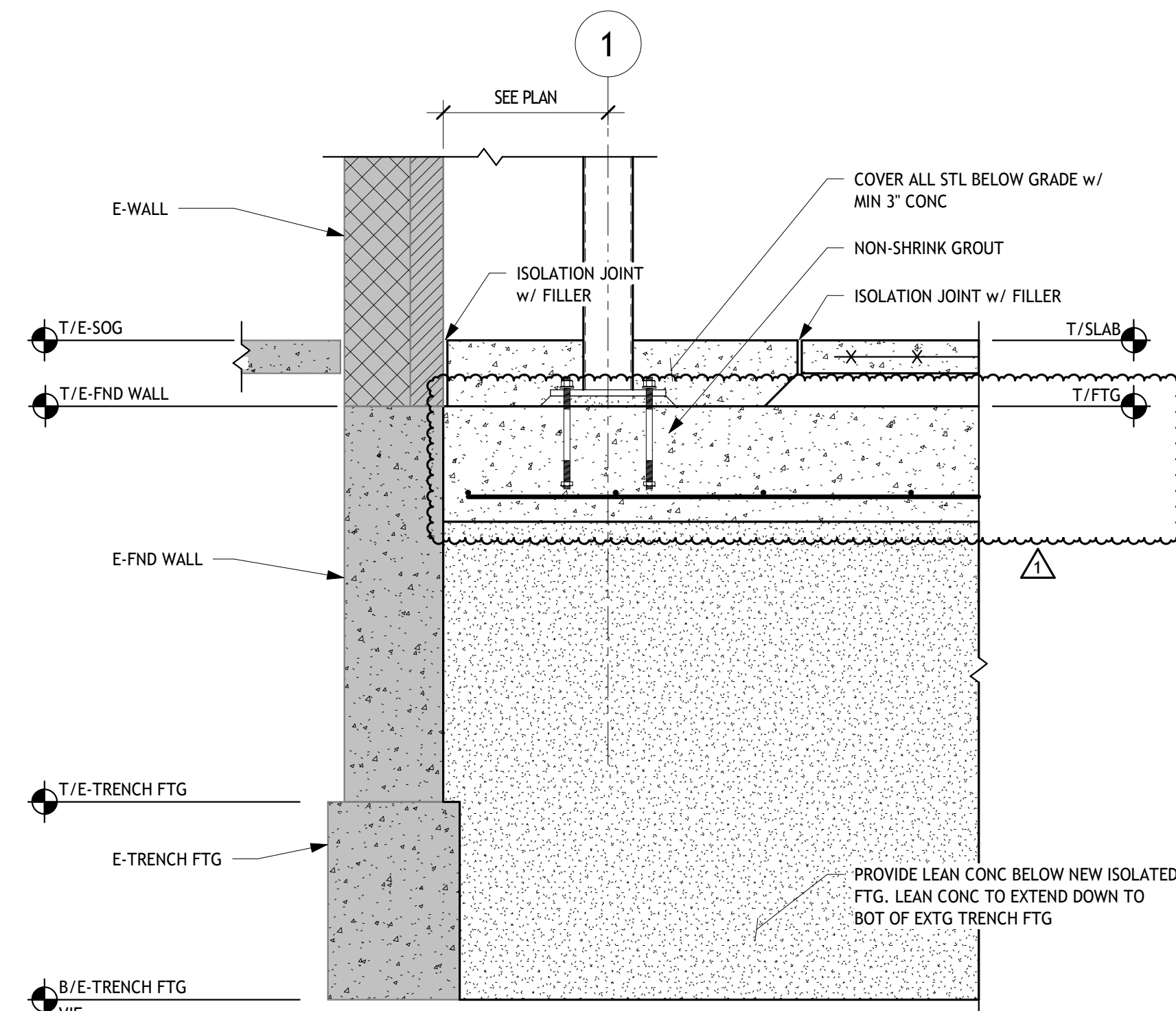
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3/4" = 1'-0"



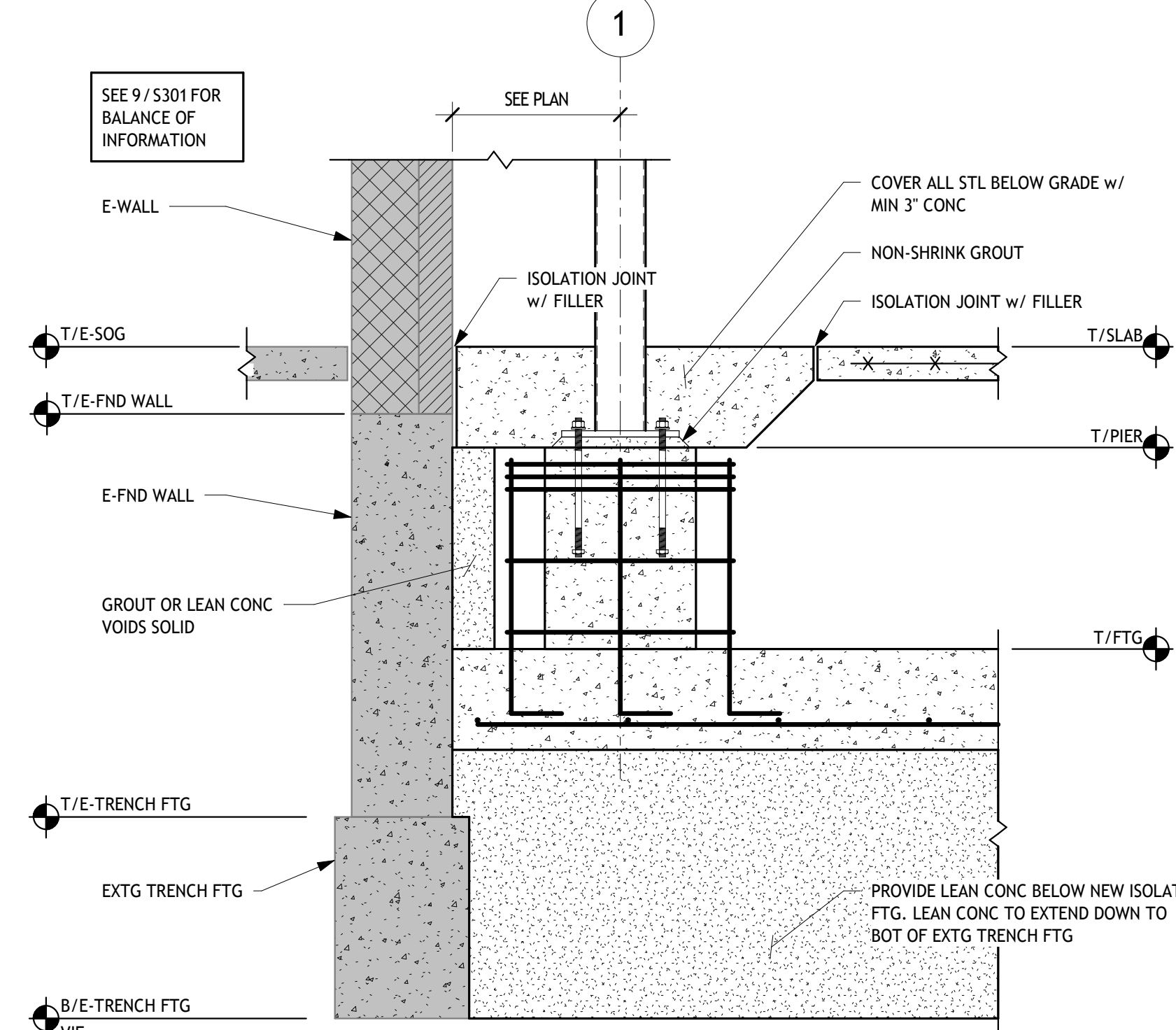
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SECTION
3/4" = 1'-0"



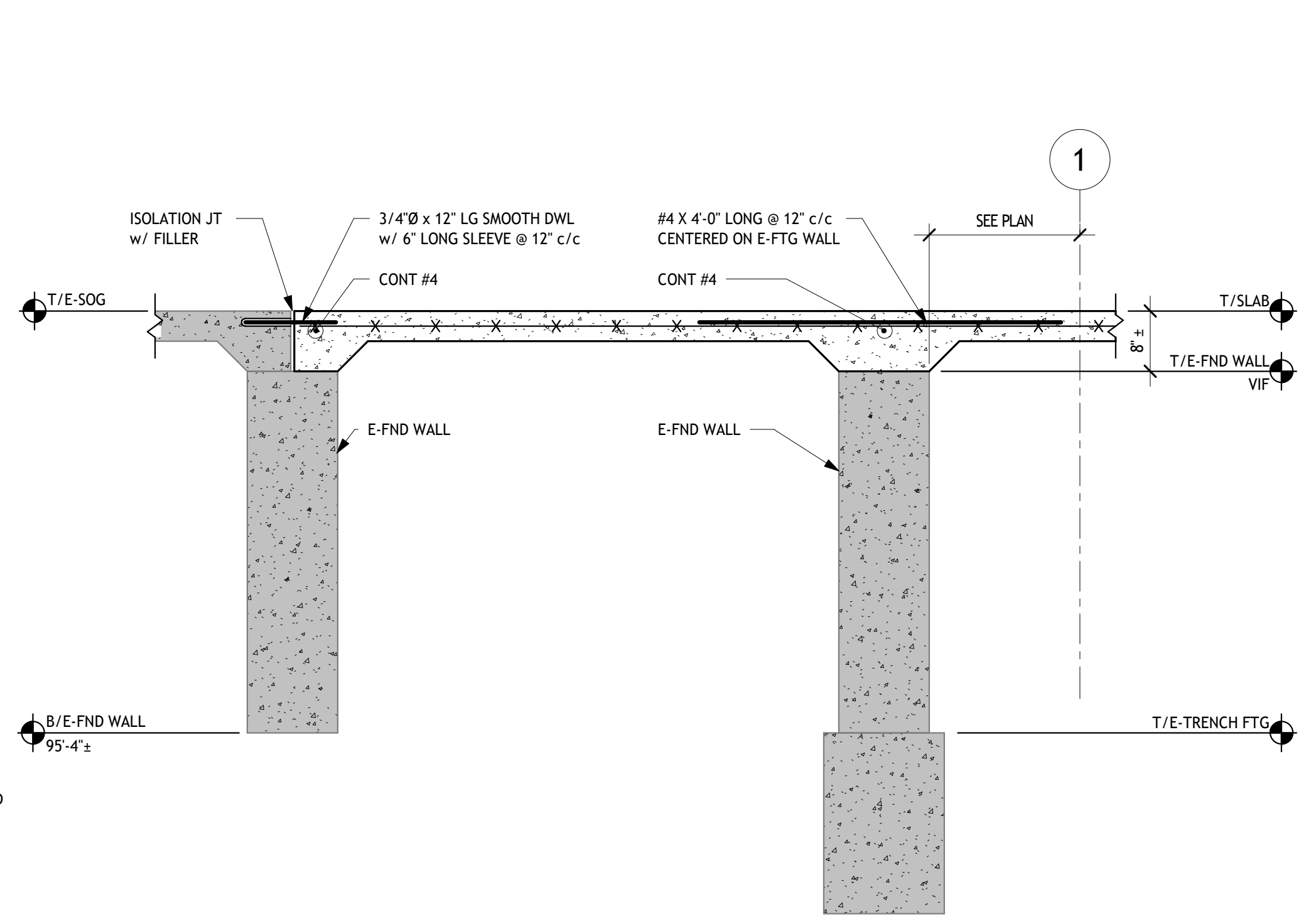
12
S301
SECTION



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



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



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



Revisions	Number	Description	Date
	1	Bidding Addendum 1	9/22/26

Printings	Sheet	Permit Set	Date
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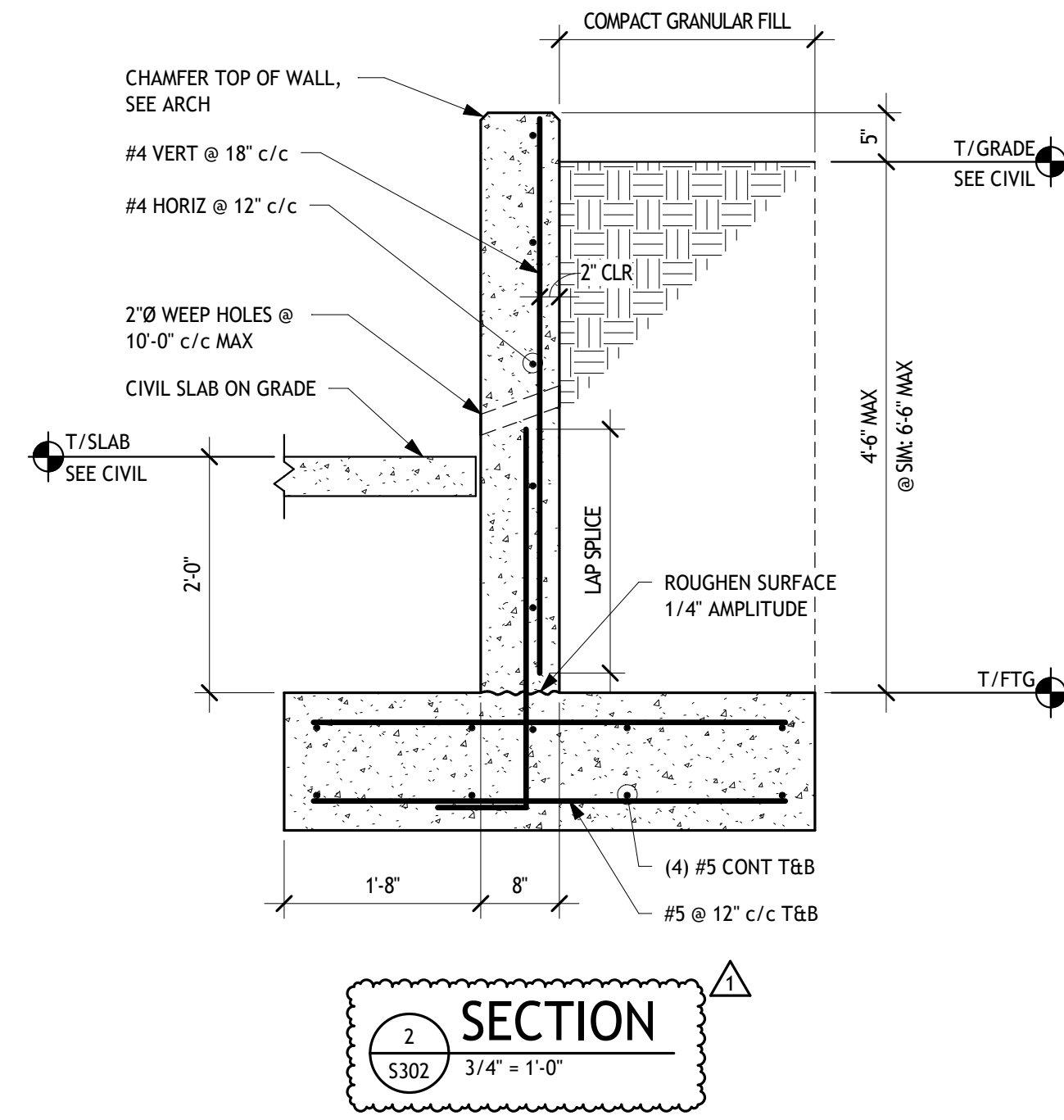
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DATE:	09/12/2026

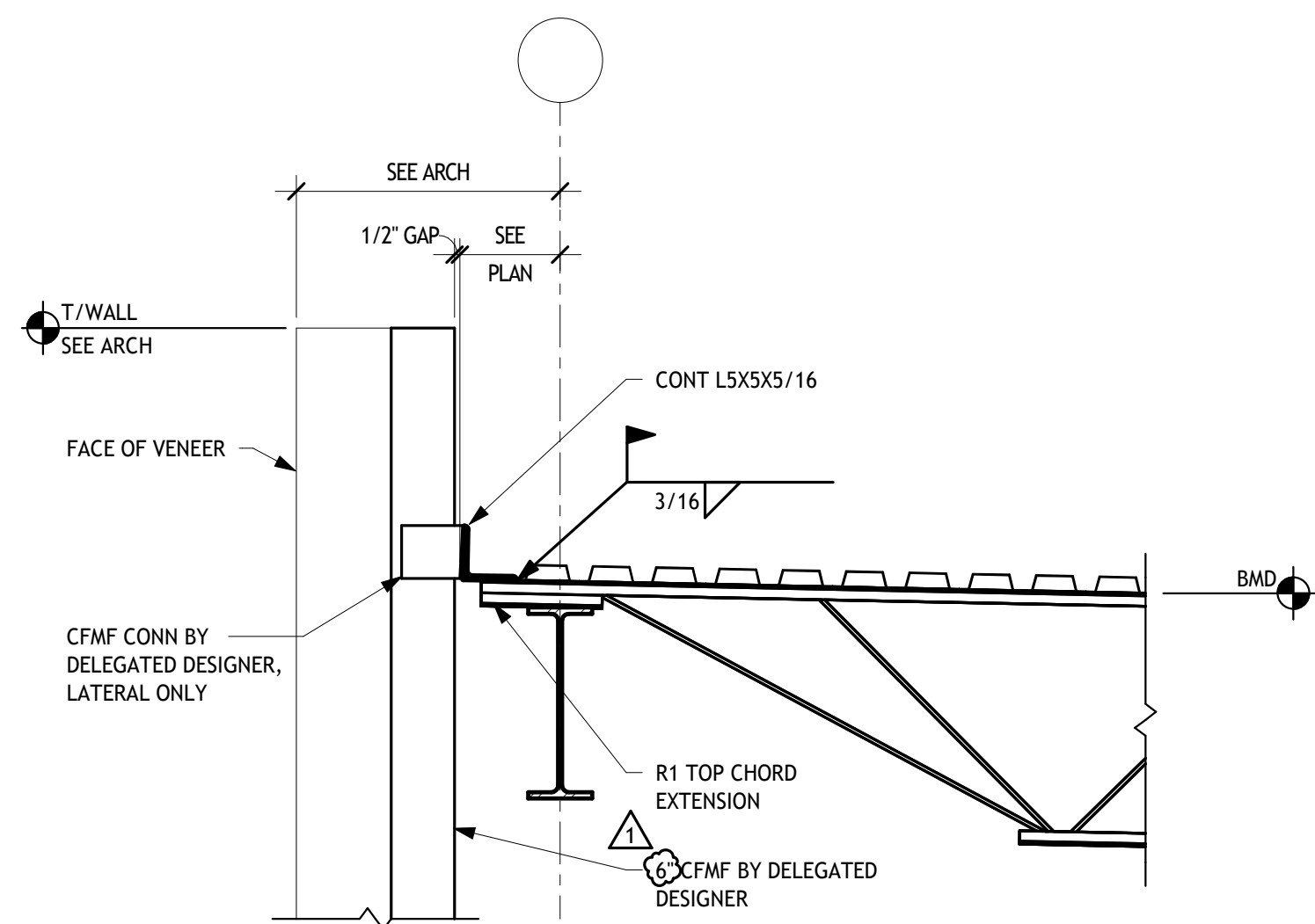
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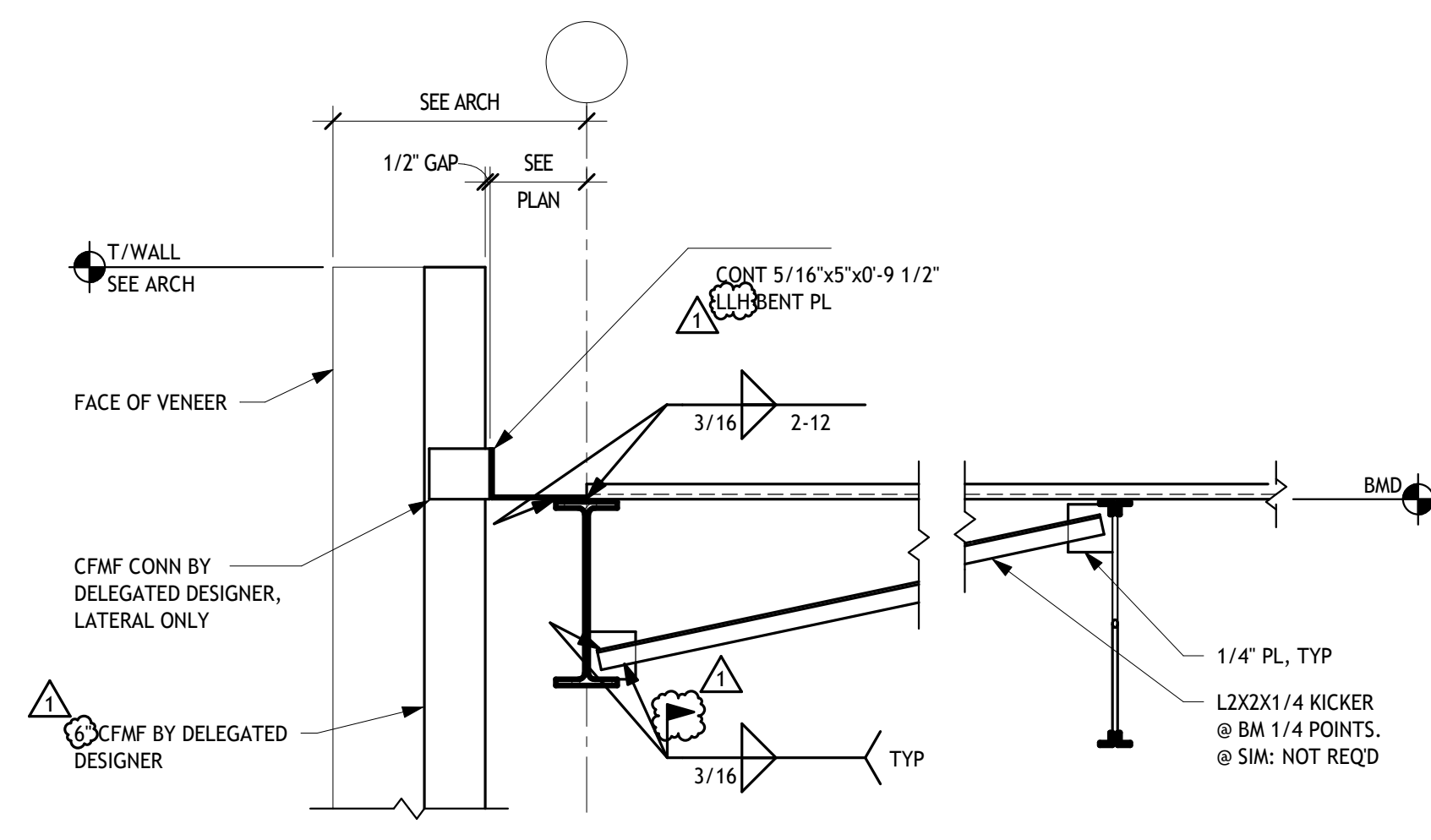
FOUNDATION DETAILS AND SECTIONS

S301

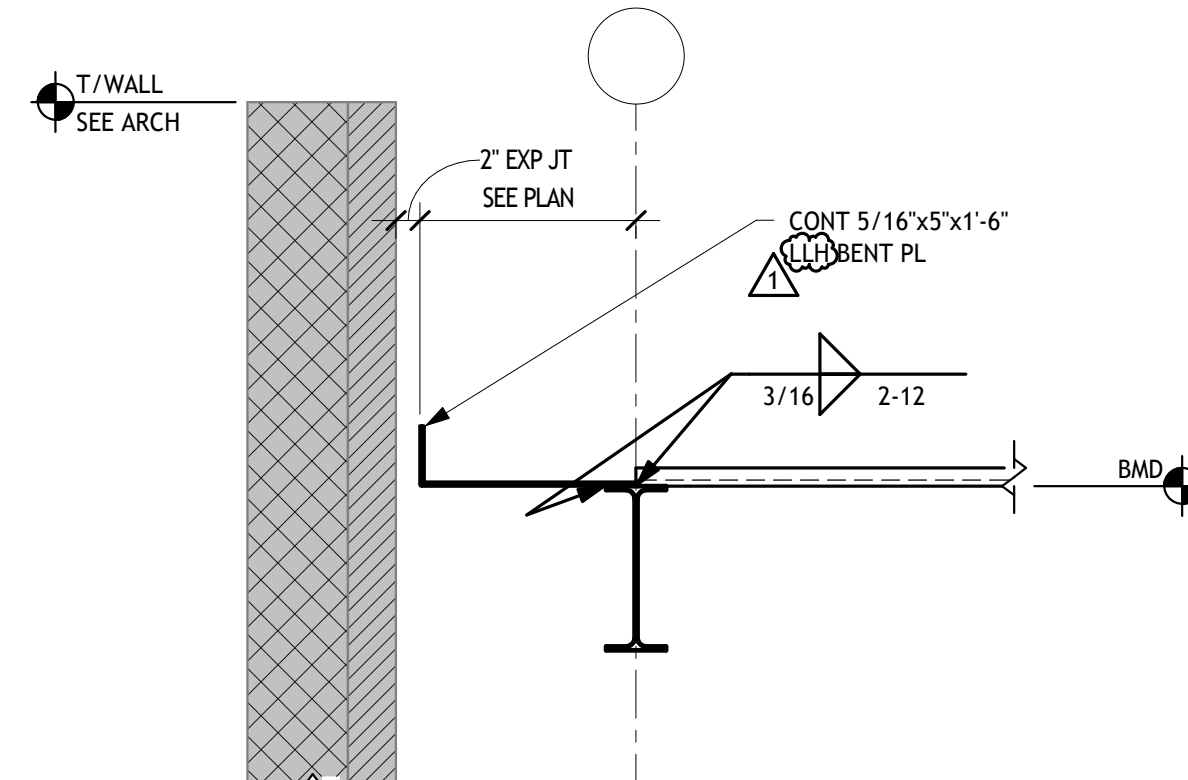




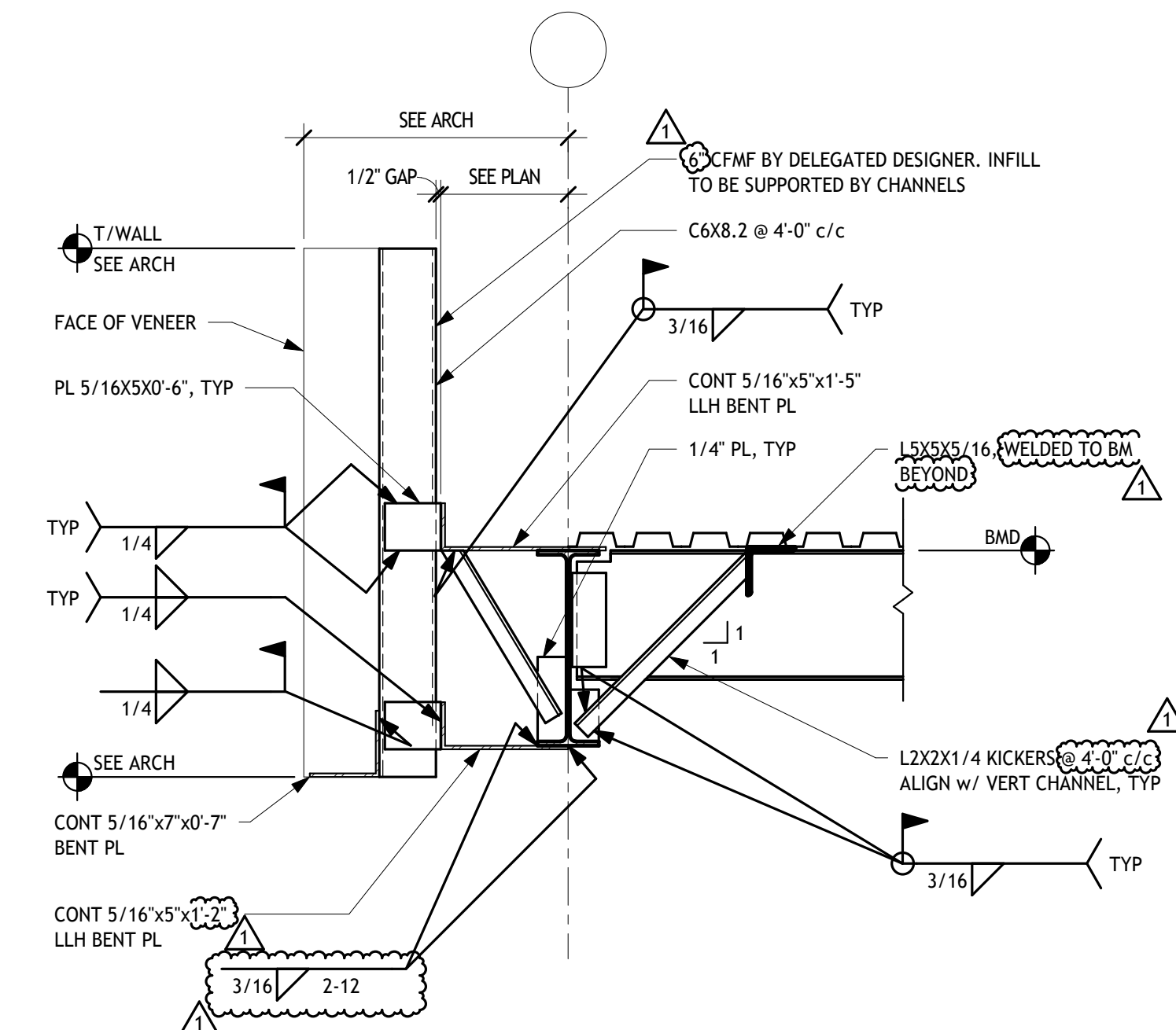
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S311 3/4" = 1'-0"



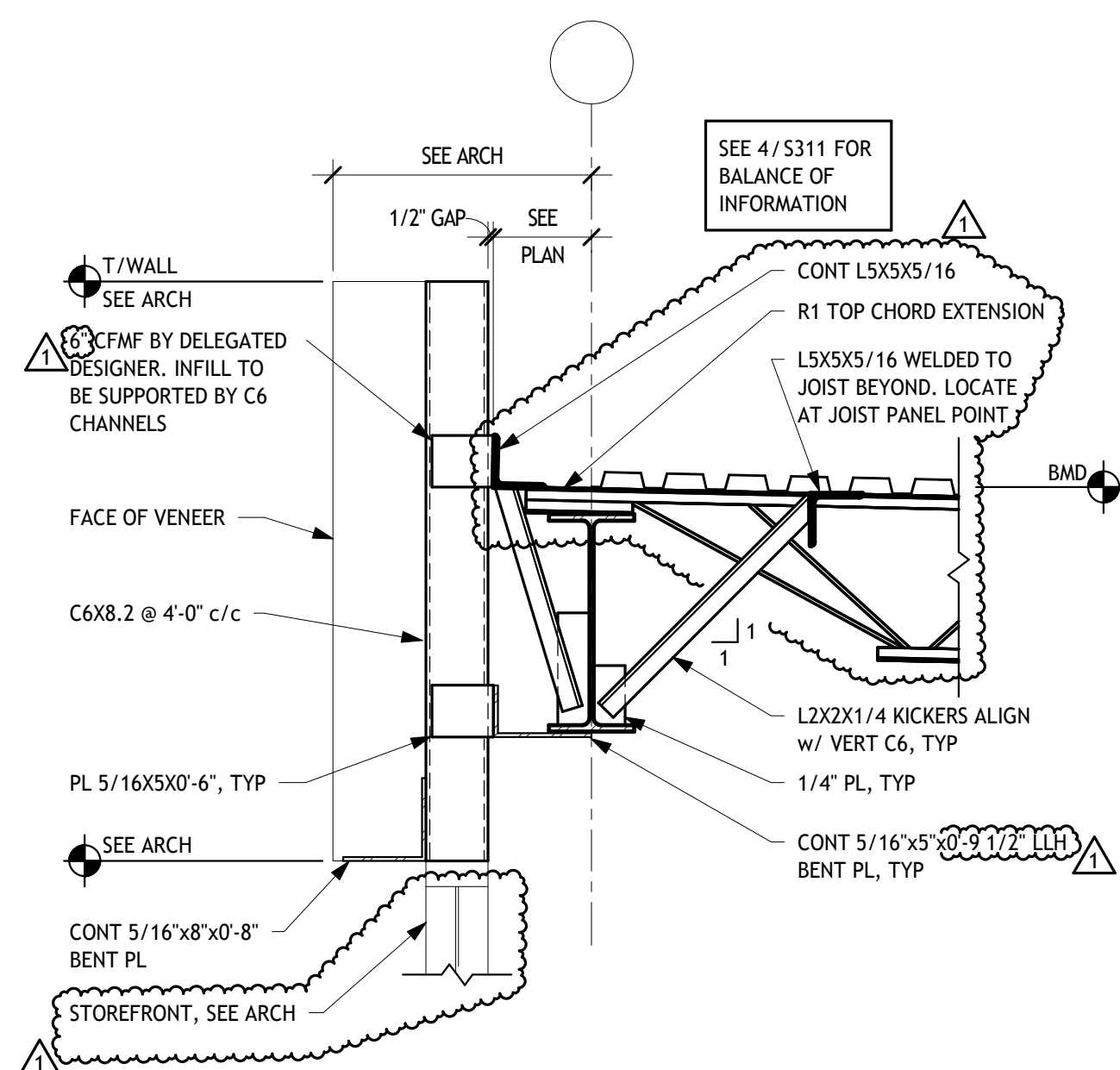
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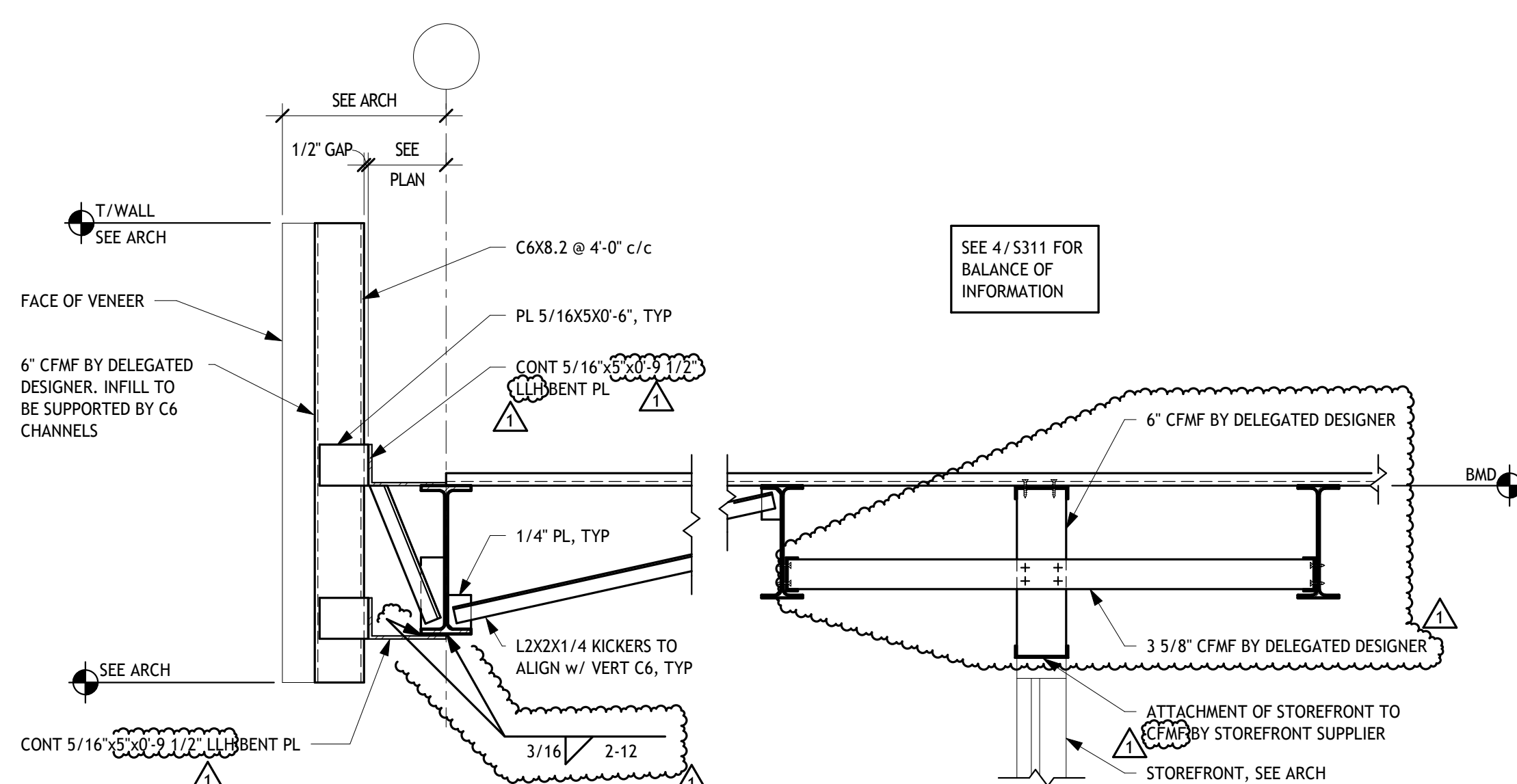
3 SECTION
S311 3/4" = 1'-0"



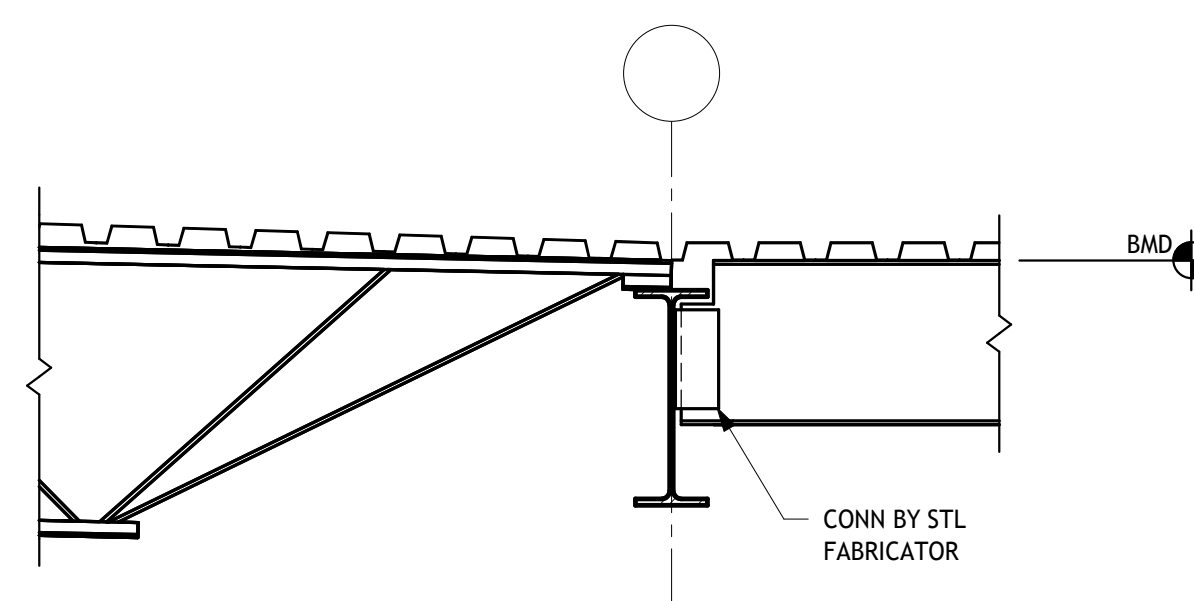
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S311 3/4" = 1'-0"



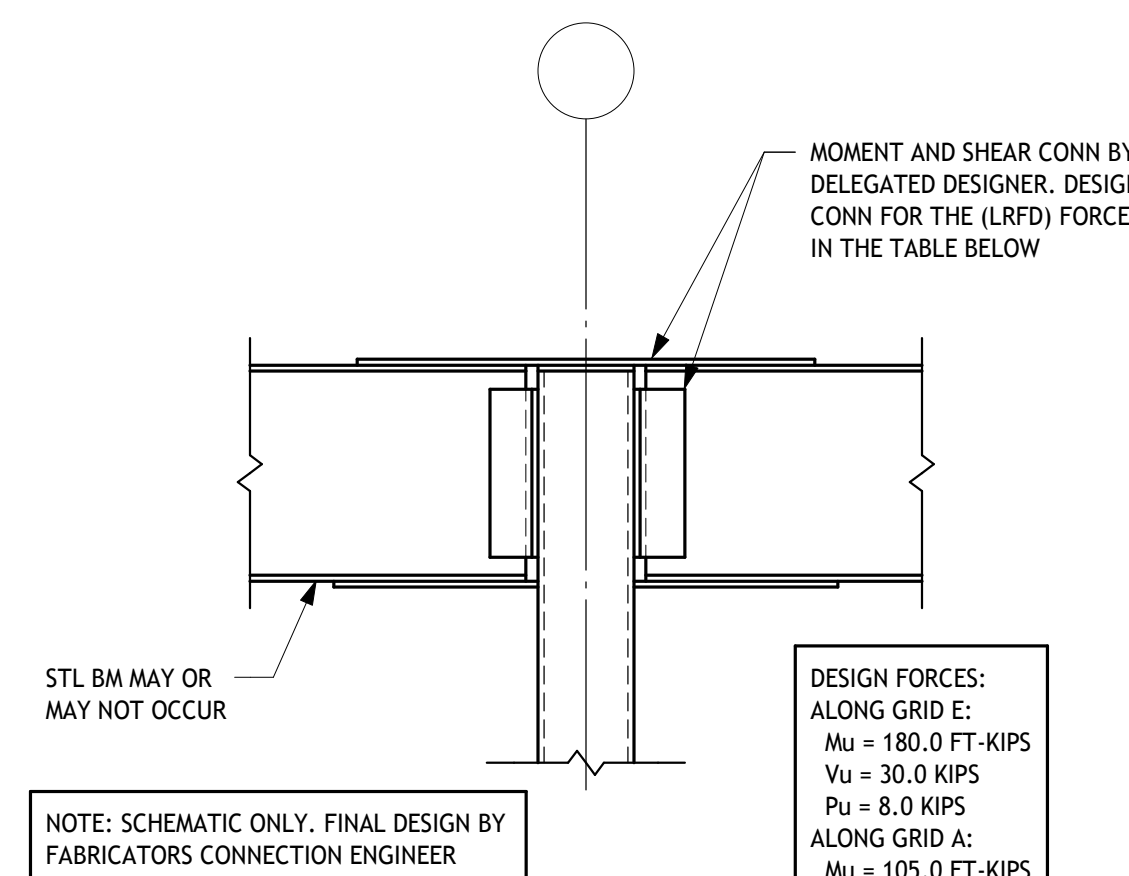
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S311 3/4" = 1'-0"



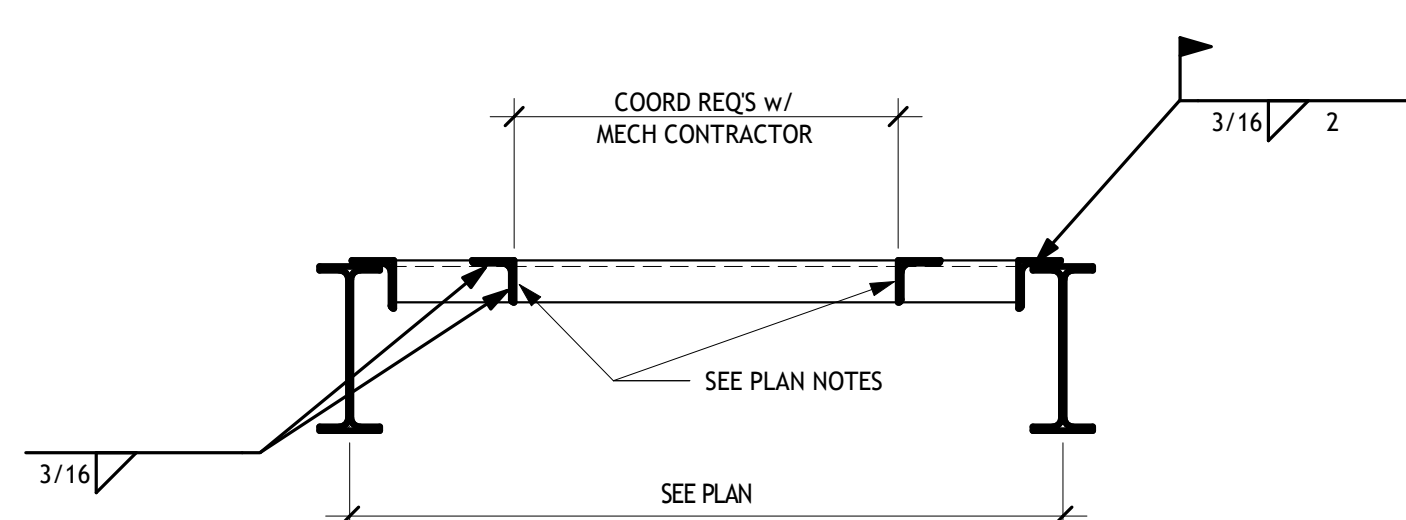
6 SECTION
S311 3/4" = 1'-0"



7 SECTION
S311 3/4" = 1'-0"

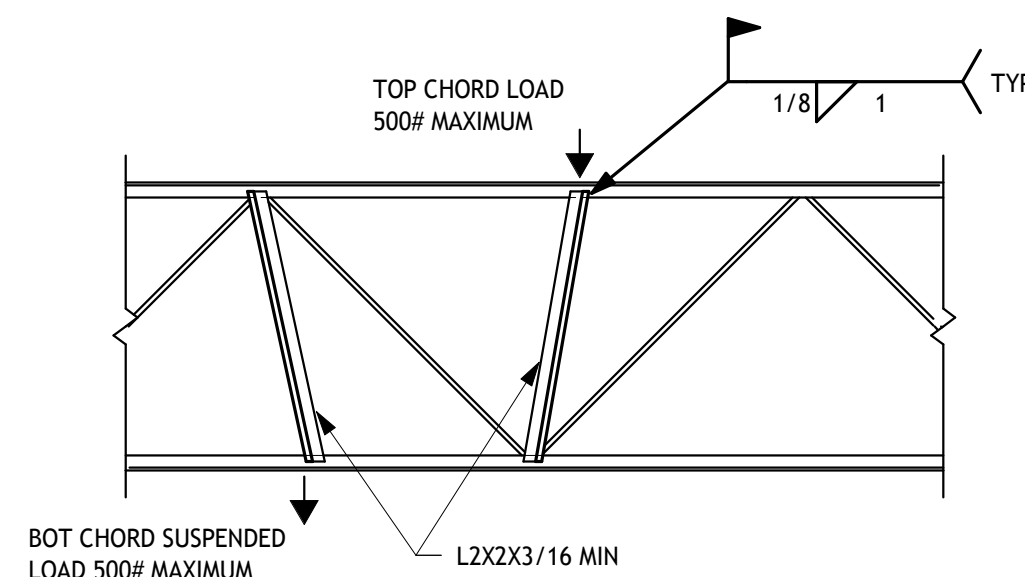


8 DETAIL
S311



- NOTES:
1. SEE MECHANICAL DRAWING FOR LOCATIONS, SIZES, AND QUANTITIES OF ROOF OPENINGS AND CURBS.
 2. ALL WELDING TO JOIST TO BE DONE WITH CARE SO AS NOT TO IMPAIR THE STRENGTH OF THE JOIST.

9 DETAIL
S311



- NOTES:
1. CONCENTRATED MECH UNIT LOADS, FOLDING PARTITIONS, SUSPENDED LOADS, ETC. SHOULD BE LOCATED AT JOIST PANEL POINTS WHERE POSSIBLE. WHEN PANEL POINT IS NOT ACCESSIBLE, SUPPORT LOAD AS SHOWN.
 2. ALL WELDING TO JOIST IS TO BE DONE WITH CARE AS NOT TO IMPAIR THE STRENGTH OF THE JOIST.

10 DETAIL
S311

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REVISIONS:

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1	Bidding Addendum 1	9/22/25

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PROJECT NO:
PROJECT #263306.00

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09/15/2025

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ROOF FRAMING
DETAILS AND
SECTIONS

S311

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

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 MULTIMODE 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

[illegible]

CD	09.14.2026
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TECHNOLOGY
ENLARGED FLOOR
PLAN

T101

9/23/2026 2:29:17 PM

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.

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
 Christy A Miller
 BICSI ID # 109630
 EXPIRES 12-31-27
 RCDD

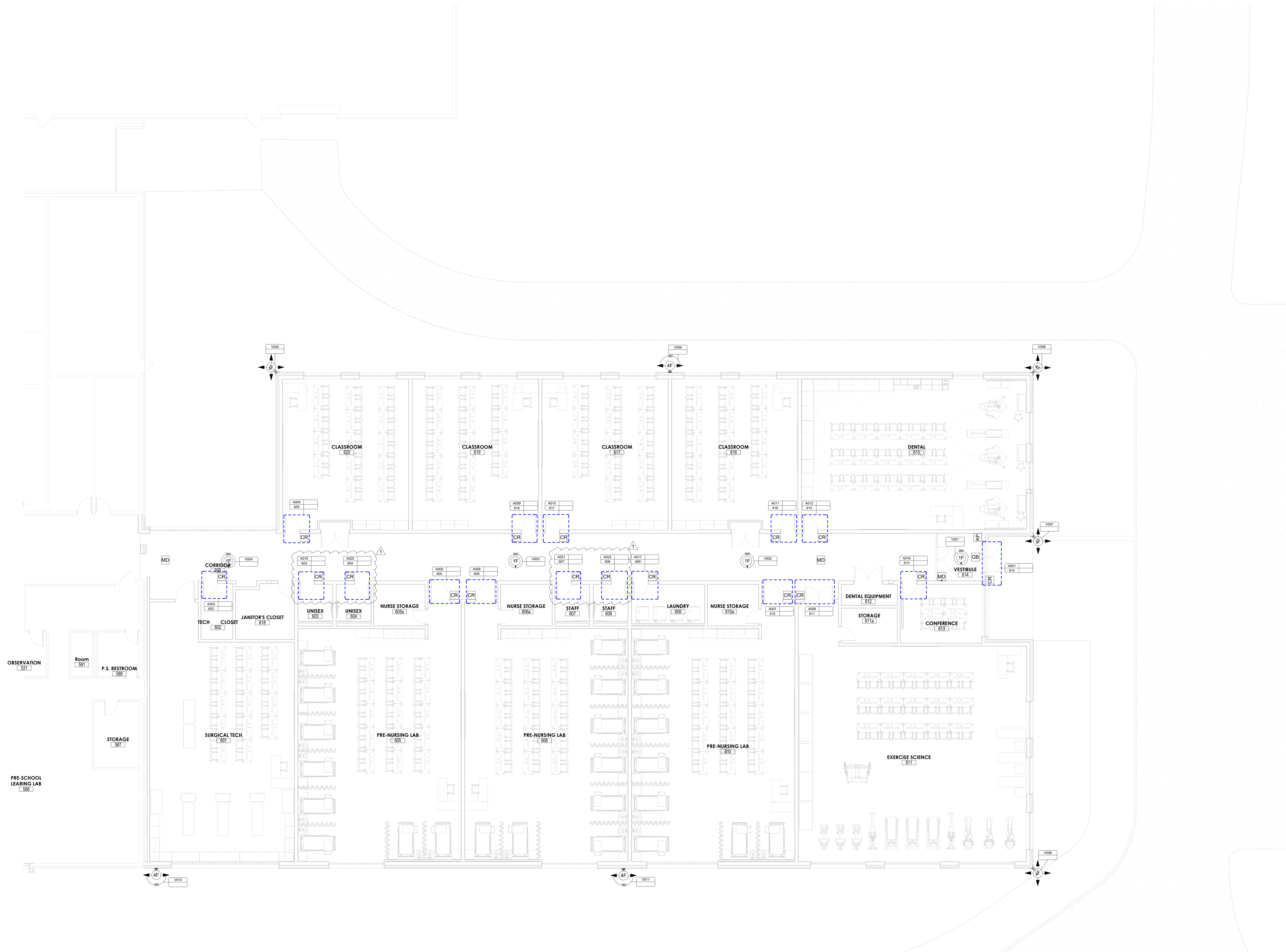
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PROJECT
#263306.00
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DRAWN BY:
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09.14.2026

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SECURITY ENLARGED
FLOOR PLAN

T201



9/23/2026 2:30:30 PM

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

[illegible]

CAMERA SCHEDULE				
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"

PROJECT NO:
#35356-00

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CM

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CMD

DATE:
09-14-2026

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REVISIONS:

PROJECT NO:
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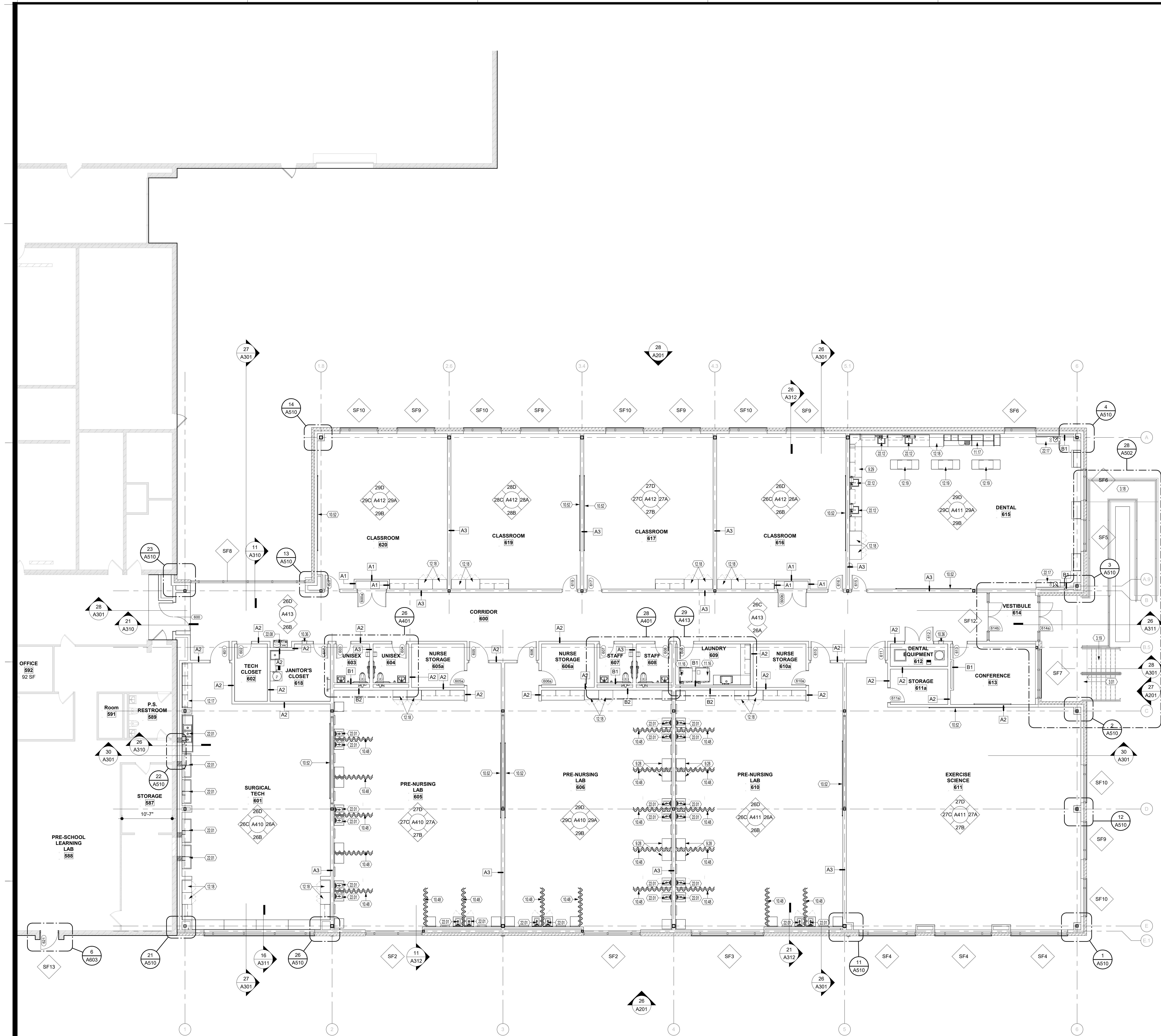
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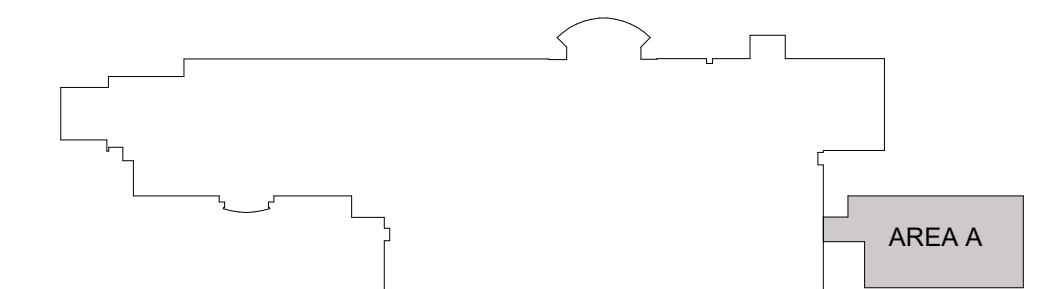


GENERAL NOTES - FLOOR PLAN

- 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

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

STATE OF OHIO
MARK C. WISEMAN
13215
REGISTERED ARCHITECT

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

REVISIONS:

Number	Description	Date
09112025		

PRINTINGS:

Bld / Permit Set	09112025

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PROJECT
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CHECKED BY:
Checker

DRAWN BY:
Author

DATE:
09112025

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FIRST FLOOR PLAN

A101

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

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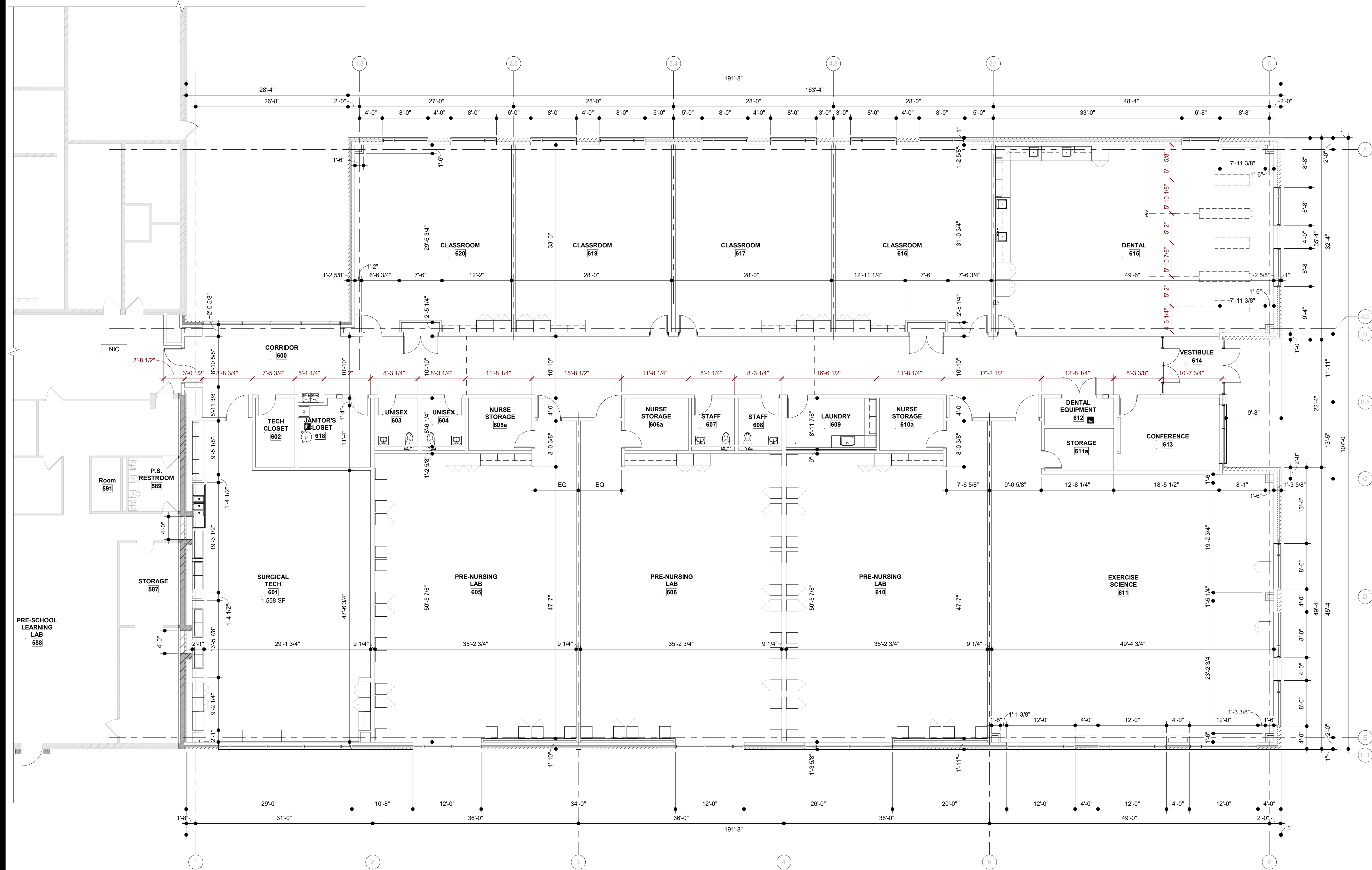
MARK C. WISEMAN

13215

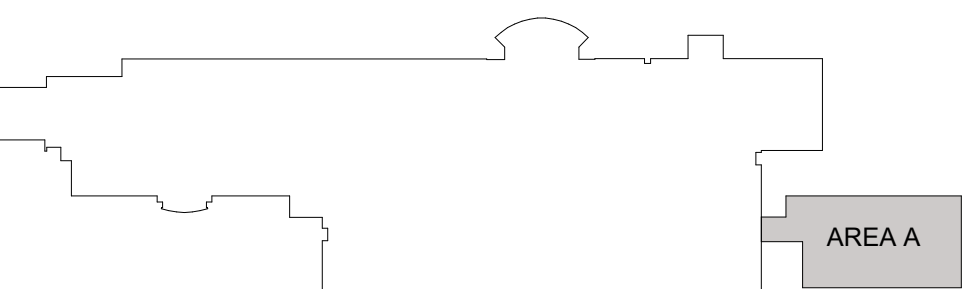
REGISTERED ARCHITECT

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

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



KEY PLAN

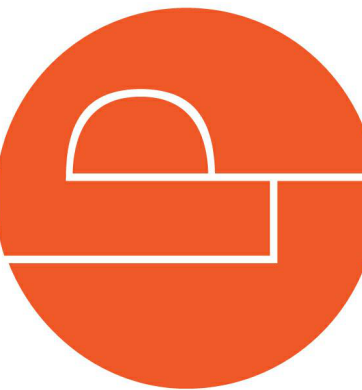
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WARREN COUNTY
CAREER CENTER
MEDICAL ACADEMY



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PROJECT #263306.00
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Author
DATE:
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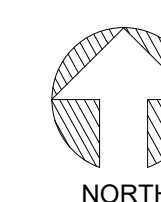
FIRST FLOOR
DIMENSION PLAN

A102

- 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.

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.

	2' x 2' ACOUSTICAL CEILING
	2' x 4' ACOUSTICAL CEILING
	EXPOSED STRUCTURE
	STUCCO CEILING
	GYPSTUM 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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REFLECTED CEILING
PLAN

A121

FINISH MATERIAL SCHEDULE					
KEY NAME	DESCRIPTION	BASIS OF DESIGN	MODEL NAME / COLOR / MODEL NUMBER	SIZE	COMMENTS
BASE					
RB-1	RUBBER BASE	TARKETT	JOHNSONITE TRADITIONAL VINYL / BLACK B 40	4"	
CASEWORK					
EP-1	EPOXY COUNTERTOP			-	DENTAL CASEWORK
PL-1	PLASTIC LAMINATE	WILSONART	BLACK ALCANTE 4926	-	CASEWORK
SS-1	SOLID SURFACE	CORIAN	ARTISTA DRIFT	-	COUNTERTOPS AND WINDOW SILL
CEILING					
ACT-1	ACOUSTICAL CELING TILE	ARMSTRONG	ULTIMA TEGULAR 1911 / WHITE	24" X 24"	
EXP-1	EXPOSED CEILING	NA	NA	NA	NA
GYP-1	GYP-SUM CEILING, PAINTED	-	PAINT PNT-6 UNLESS NOTED ON REFLECTED CEILING PLAN	-	
FLOORING					
CO-1	SEALED CONCRETE	-	-	-	
CO-2	POLISHED CONCRETE	-	-	-	RESTROOMS
TR-1	TRANSITION STRIP	SCHLUTER			
WOC-1	WALK OFF CARPET	SHAWCONTRACT	ALL ACCESS / PORTAL TILE 5T035 / NAVY 34485	24" X 24"	
MISC.					
CLR-1	STOREFRONT	KAWNEER	2.5" x 6" - CLEAR ANODIZED	-	
RL-1	STAIR RAIL	HOLLAENDER	ANODIZED ALUMINUM	-	
ST-1	DOOR STAIN		COLOR CHOSEN FROM MANUFACTURERS FULL LINE TO MATCH EXISTING	-	ALL WOOD DOORS
WALLS					
EPT-1	EPOXY PAINT	SHERWIN WILLIAMS	SW 9166 DRIFT OF MIST	-	RESTROOMS
PNT-1	FIELD COLOR	SHERWIN WILLIAMS	SW 9166 DRIFT OF MIST	-	FIELD COLOR
PNT-2	ACCENT COLOR 1	SHERWIN WILLIAMS	SW 7673 PEWTER CAST	-	ACCENT
PNT-3	ACCENT COLOR 2	SHERWIN WILLIAMS	SW 7605 GALE FORCE	-	ACCENT
PNT-6	CEILING PAINT	SHERWIN WILLIAMS	SW 7007 CEILING BRIGHT WHITE	-	EXPOSED CEILINGS
PNT-7	DOOR FRAME PAINT	SHERWIN WILLIAMS	SW 6256 TRICORN BLACK	-	DOOR FRAMES

ROOM FINISH SCHEDULE									
ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	FINISHES				CEILING FINISH	COMMENTS
				NORTH	EAST	SOUTH	WEST		
600	CORRIDOR	CO-2, WOC-1	RB-1	PNT-1	PNT-1, PNT-2, PNT-3	PNT-1, PNT-3	PNT-1, PNT-3	ACT-1	
600A	ELEC.	CO-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	EXP-1	
600B	ELEC.	CO-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	EXP-1	
601	SURGICAL TECH	CO-2	RB-1	PNT-3	PNT-1	PNT-1	PNT-1	ACT-1	
602	TECH CLOSET	CO-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
603	UNISEX	CO-2	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	GYP-1	
604	UNISEX	CO-2	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	GYP-1	
605	PRE-NURSING LAB	CO-2	RB-1	PNT-3	PNT-1	PNT-1	PNT-1	ACT-1	
605a	NURSE STORAGE	CO-2	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
606	PRE-NURSING LAB	CO-2	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
606a	NURSE STORAGE	CO-2	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
607	STAFF	CO-2	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	GYP-1	
608	STAFF	CO-2	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	GYP-1	
609	LAUNDRY	CO-2	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
610	PRE-NURSING LAB	CO-2	RB-1	PNT-3	PNT-1	PNT-1	PNT-1	ACT-1	
610a	NURSE STORAGE	CO-2	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
611	EXERCISE SCIENCE	CO-2	RB-1	PNT-1	PNT-1	PNT-3	PNT-1	ACT-1	
611a	STORAGE	CO-2	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
612	DENTAL EQUIPMENT	CO-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
613	CONFERENCE	CO-2	RB-1	PNT-1	PNT-1	PNT-2	PNT-1	ACT-1	
614	VESTIBULE	WOC-1	RB-1	PNT-1, PNT-3	PNT-1, PNT-3	PNT-1, PNT-3	PNT-1, PNT-3	ACT-1	
615	DENTAL	CO-2	RB-1	PNT-1	PNT-1	PNT-3	PNT-1	ACT-1	
616	CLASSROOM	CO-2	RB-1	PNT-3	PNT-1	PNT-1	PNT-1	ACT-1	
617	CLASSROOM	CO-2	RB-1	PNT-1	PNT-1	PNT-3	PNT-1	ACT-1	
618	JANITOR'S CLOSET	CO-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
619	CLASSROOM	CO-2	RB-1	PNT-3	PNT-1	PNT-1	PNT-1	ACT-1	
620	CLASSROOM	CO-2	RB-1	PNT-1	PNT-1	PNT-3	PNT-1	ACT-1	

GENERAL NOTES

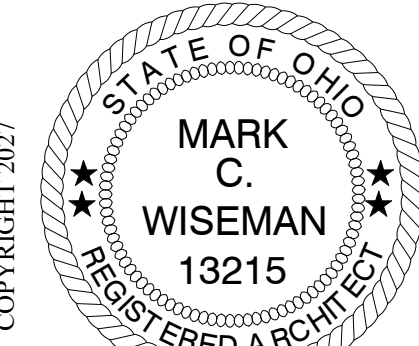
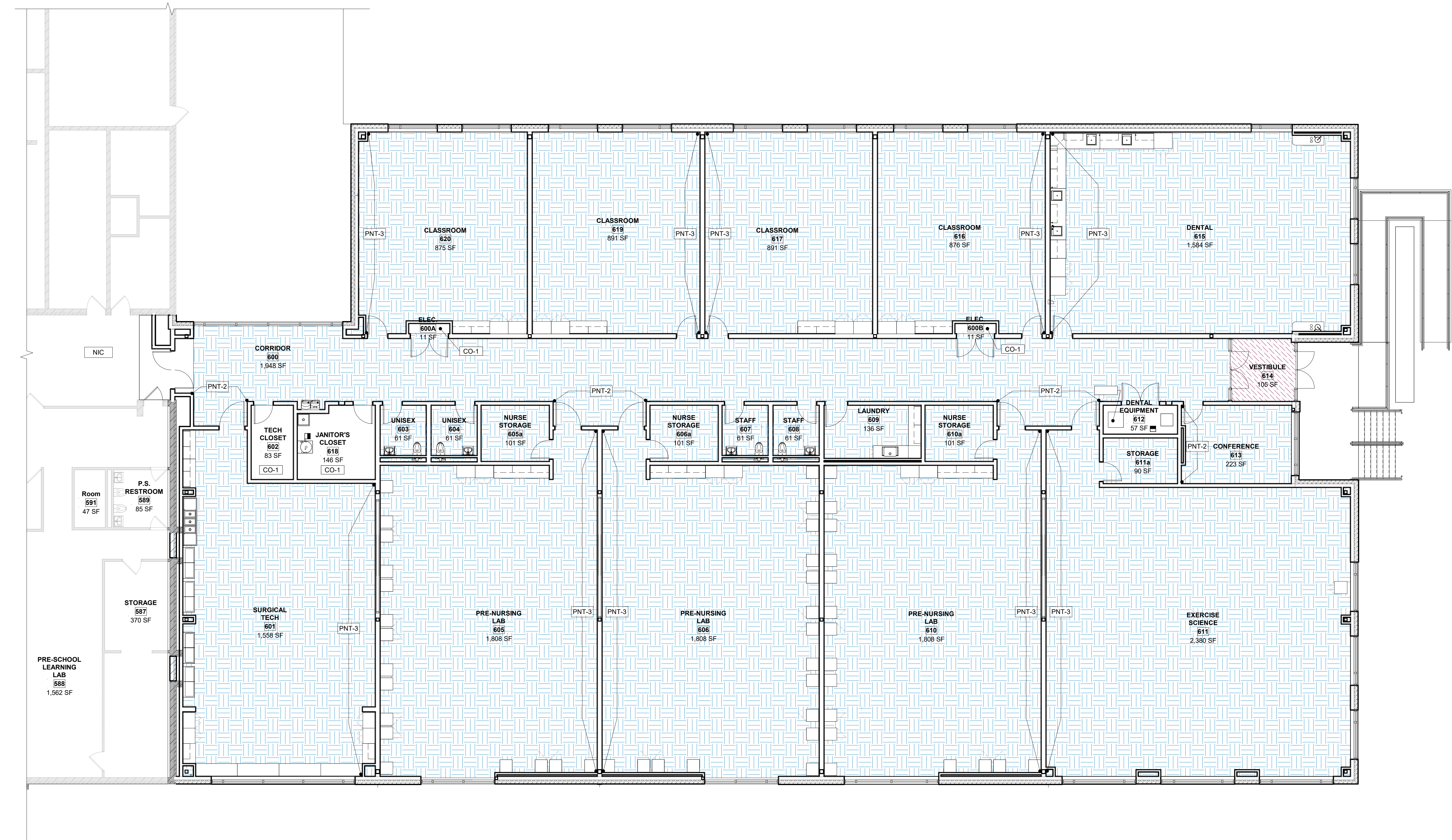
SEE SPECIFICATIONS FOR PROJECT GENERAL REQUIREMENTS.

- B. AT ALL AREAS INDICATED WITH EXPOSED CEILINGS, THE CONTRACTOR SHALL PAINT ALL STRUCTURE, DECKING, DUCTWORK, CONDUIT, AND OTHER NON-PREFINISHED ITEMS. COLOR SHALL BE AS SCHEDULED.
- C. SEE FINISH PLANS AND ELEVATIONS FOR ALL SCHEDULED FINISHES INCLUDING WALL PAINT LOCATIONS AND COLORS. CONTRACTOR TO COORDINATE FINAL WALL COLORS SELECTION WITH ARCHITECT AND OWNER PRIOR TO APPLICATION.
- D. CONTRACTOR TO APPLY TOPICAL MOISTURE MITIGATION SYSTEM BARRIER TO EXISTING FLOOR SURFACES PER SPECIFICATIONS/AS REQUIRED. IF MILESTONES / MOISTURE LEVELS ARE NOT MET, THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS RELATED TO MOISTURE MITIGATION WITHOUT DELAYING THE FLOORING INSTALLATION SCHEDULE.
- E. COORDINATE FINAL CARPET PATTERN AND SELECTION WITH ARCHITECT.
- F. SEE SPECIFICATIONS AND FINISH SCHEDULE FOR ADDITIONAL FINISH INFORMATION.
- G. COORDINATE ALL FLOOR TRANSITION REQUIREMENTS.
- H. SEE CEILING PLAN FOR ADDITIONAL FINISH INFORMATION.
- I. WHERE FLOOR BOXES ARE INDICATED TO BE INSTALLED, THE CONTRACTOR SHALL INSTALL CARPET OR ADJACENT SPECIFIED FLOORING ON FLOOR OUTLET COVER. CONTRACTOR SHALL ALSO ABUT CARPET TO FIT TIGHTLY AROUND FLOOR OUTLET BOXES. TOP COVER AND TOP OF MAIN AREA OF CARPET SHALL BE FLUSH.

KEYNOTES

FLOOR FINISH LEGEND

- CO-1: SEALED CONCRETE
- CO-2: POLISHED CONCRETE
- WOC-1: WALK OFF CARPET TILE



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

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**WARREN COUNTY
CAREER CENTER
MEDICAL ACADEMY**

3525 OH-48, Lebanon, OH 45036



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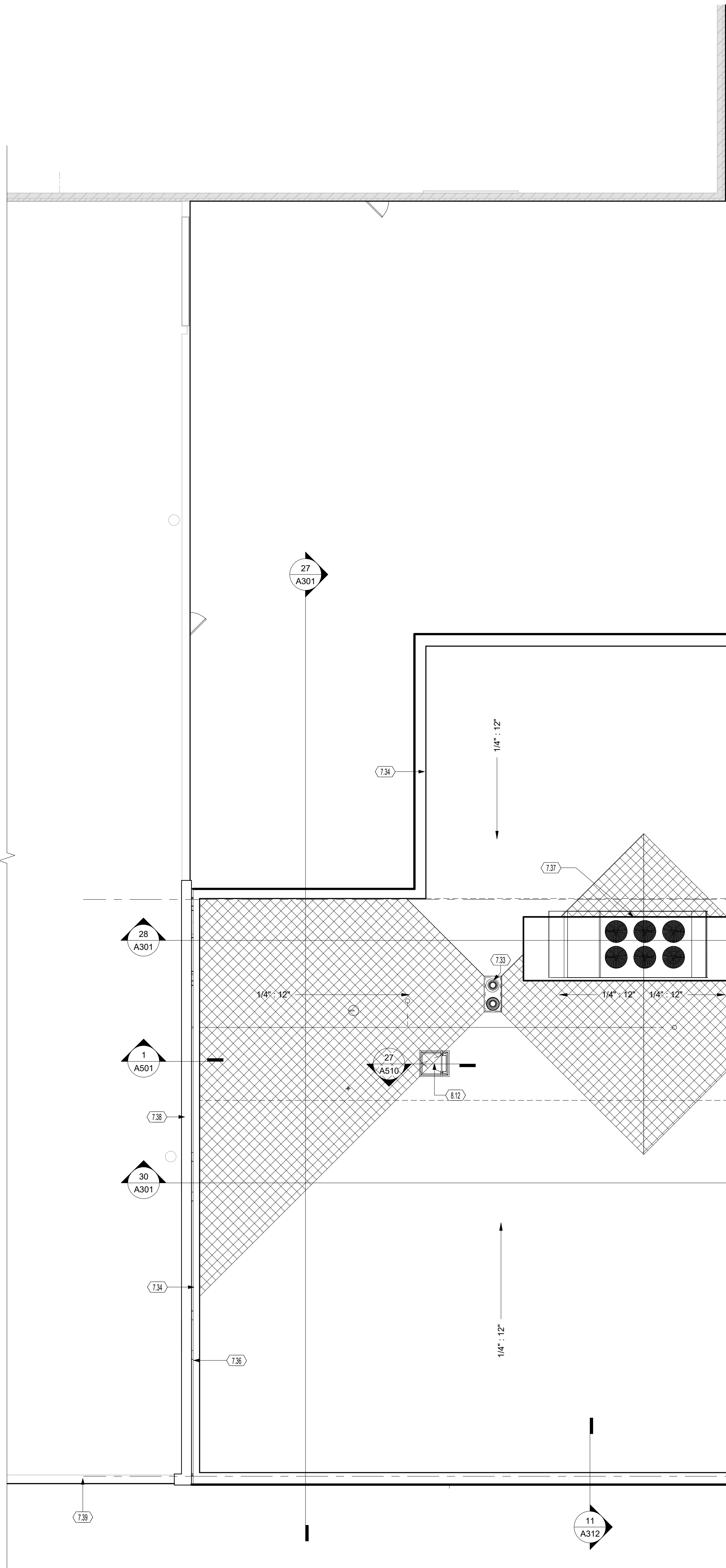


FLOOR FINISH PLAN

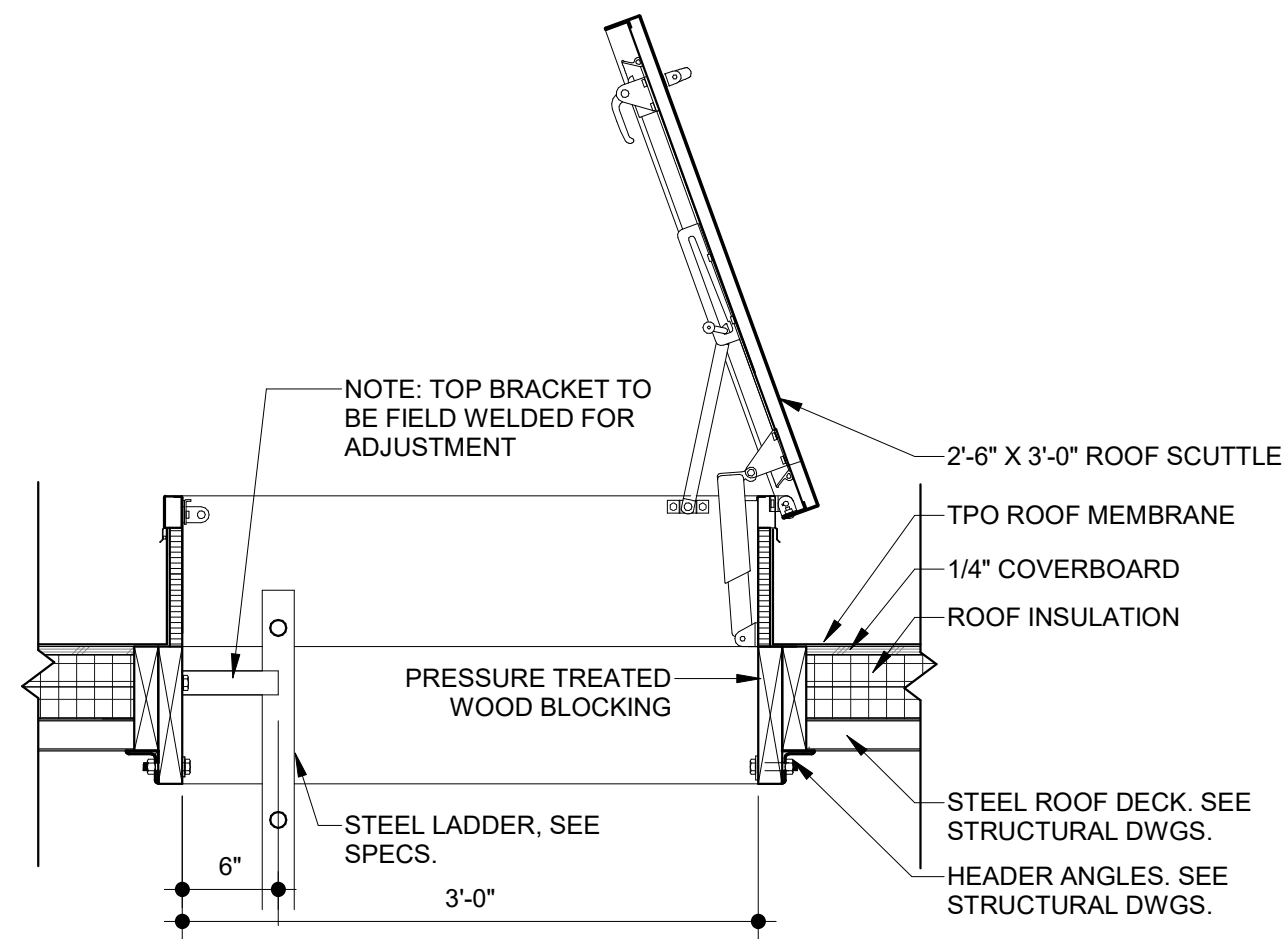
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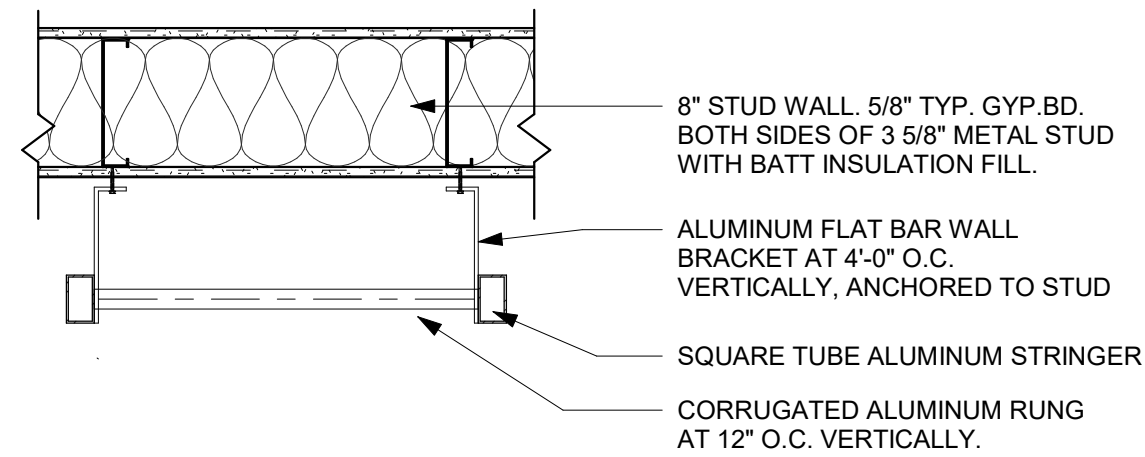
26 ROOF PLAN
SCALE | 1/8" = 1'-0"



2 ROOF HATCH
SCALE | 1" = 1'-0"



3 ROOF ACCESS LADDER DETAIL
SCALE | 1" = 1'-0"



GENERAL NOTES

- 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.

KEYNOTES

- 7.33 ROOF DRAIN AND OVERFLOW DRAIN
- 7.34 TPO ROOFING SYSTEM OVER RIGID POLYISO INSULATION. PROVIDE COMPLETE ROOFING SYSTEM AND ACCESSORIES IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
- 7.35 PRE-FINISHED METAL COPING.
- 7.36 2" EXPANSION JOINT WITH PRE-FINISHED CAP FLASHING.
- 7.37 ROOF TOP MECHANICAL EQUIPMENT ON INTEGRAL CURB. SEE MECHANICAL DRAWINGS.
- 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.
- 7.39 EXISTING EMERGENCY OVERFLOW SCUPPER TO REMAIN.
- 8.12 30" X 36" ROOF HATCH. REFER TO DETAILS.

STATE OF OHIO
MARK C. WISEMAN
13215
REGISTERED ARCHITECT

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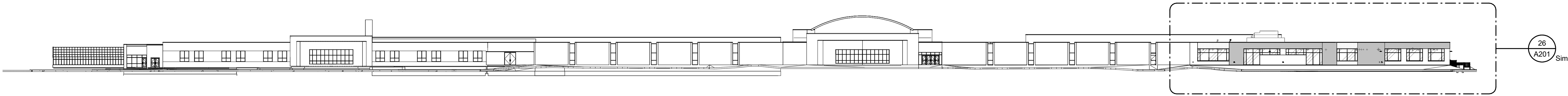
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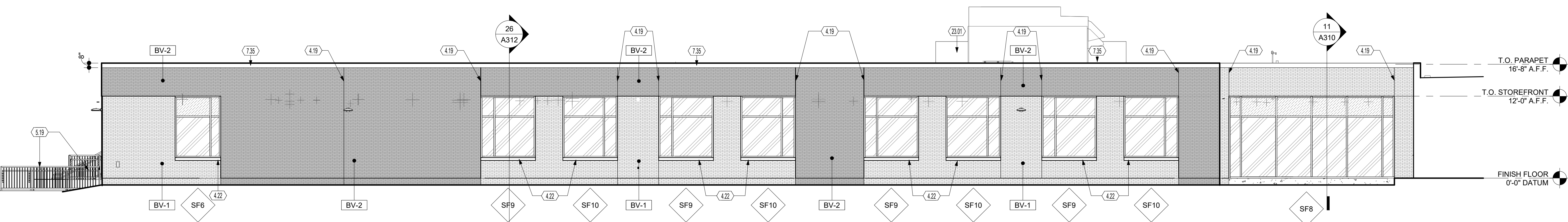
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ROOF PLAN

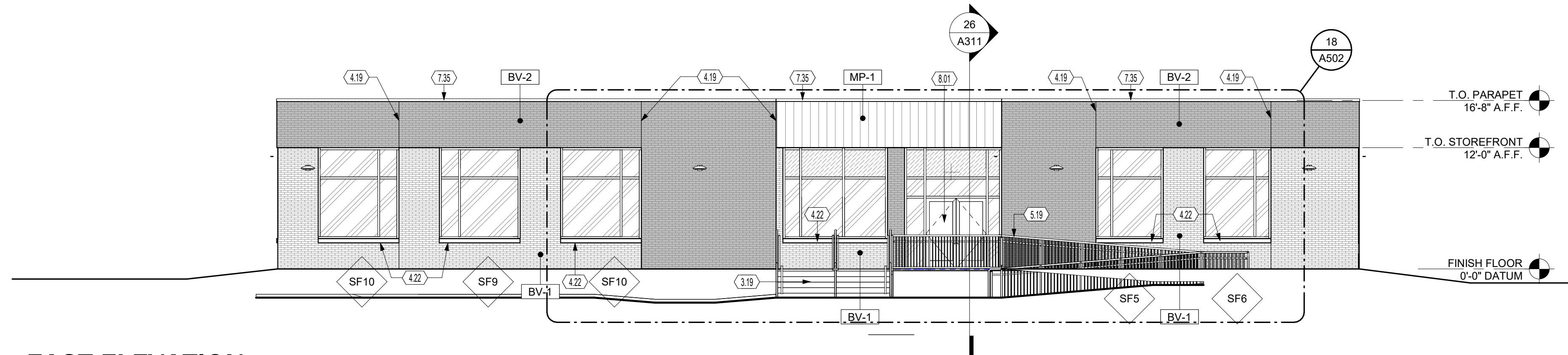
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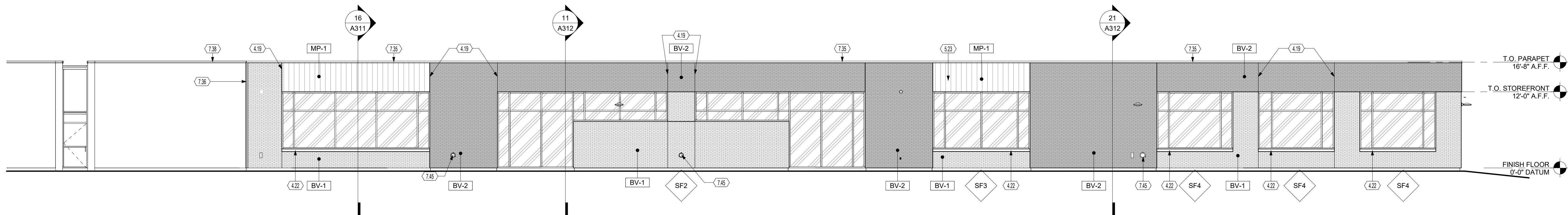
30 OVERALL SOUTH ELEVATION
SCALE | 1" = 40'-0"



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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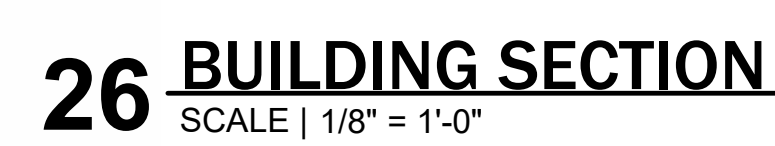
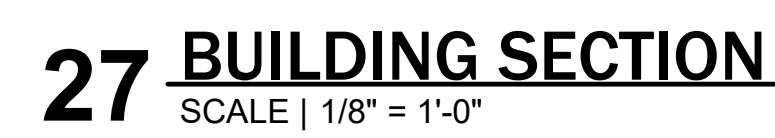
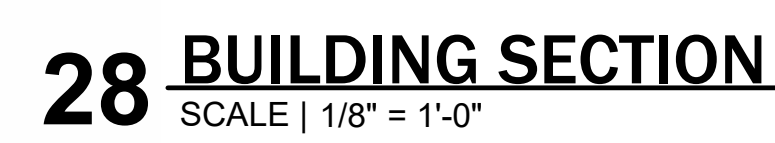
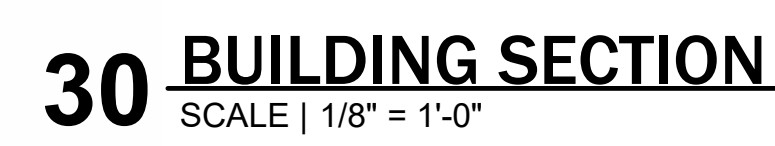
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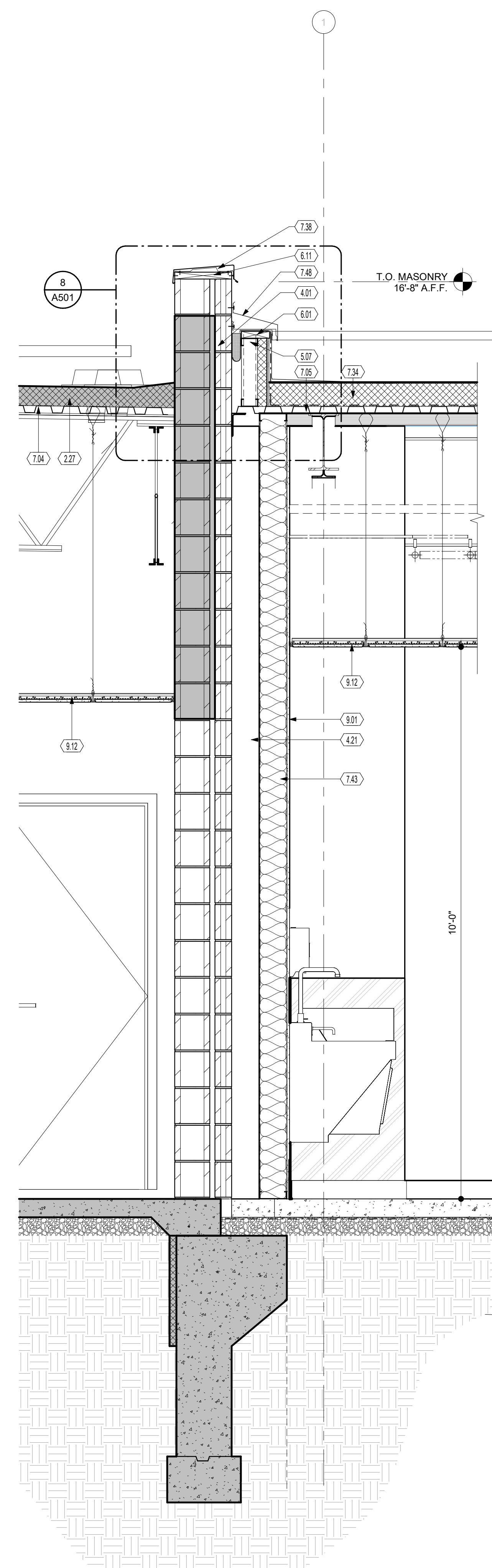
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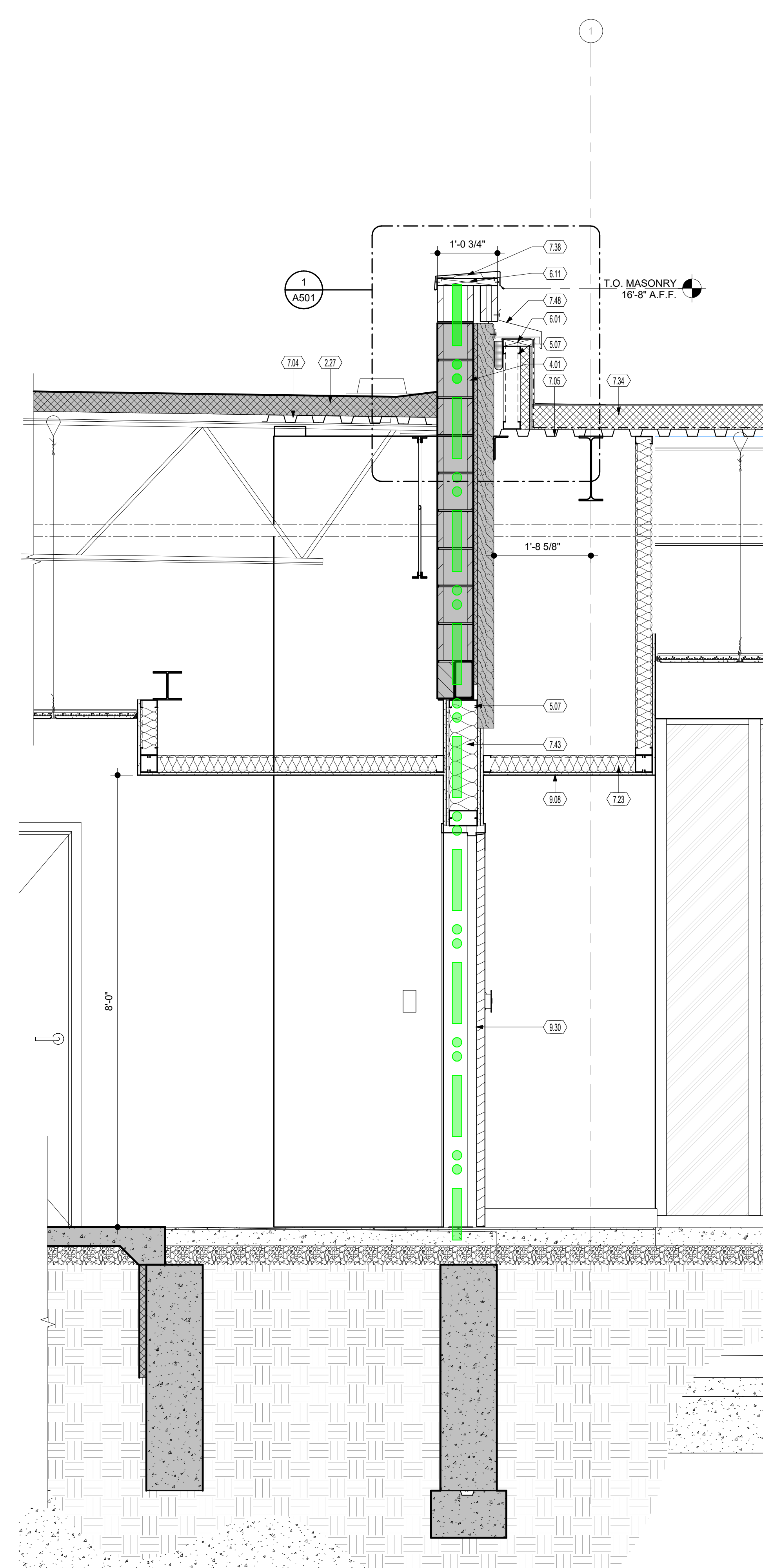
EXTERIOR
ELEVATIONS

A201

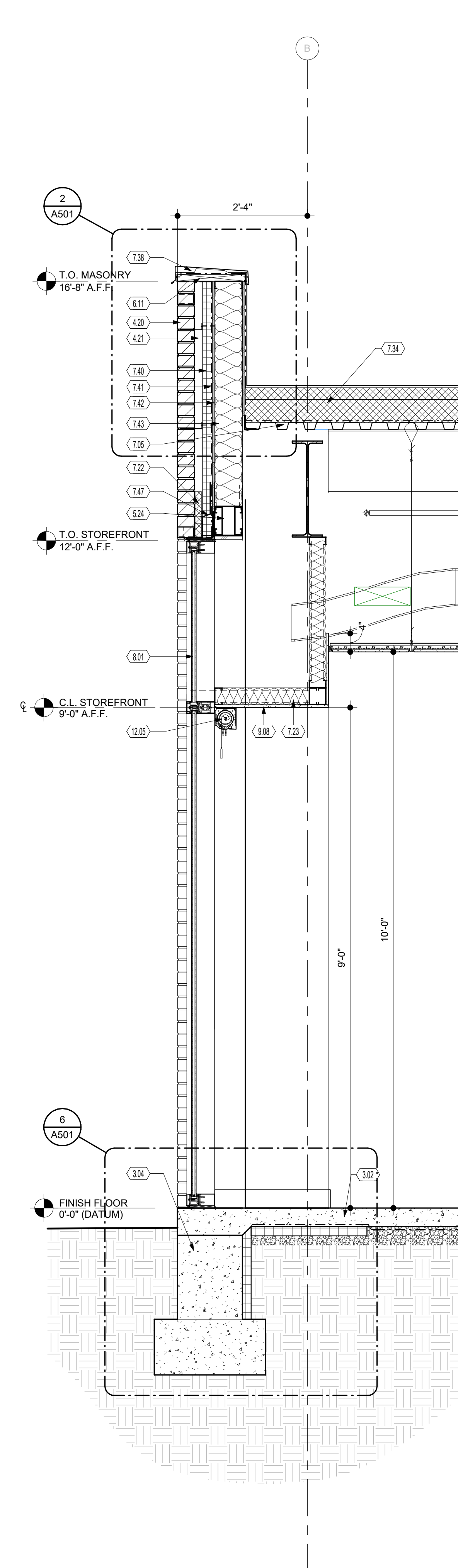




26 WALL SECTION @ EXISTING OPENING



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. |
| 3.04 | 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. |
| 7.06 | METAL DECKING. REFER TO STRUCTURAL DRAWINGS. |
| 7.22 | 2" RIGID POLYSTYRENE INSULATION. |
| 7.23 | 4" FIBERGLASS BATT INSULATION. MINIMUM OF R-13. |
| 7.34 | TOO ROOFING SYSTEM OVER RIGID POLYISO INSULATION. PROVIDE COMPLETE ROOFING SYSTEM AND ACCESSORIES IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. |
| 7.38 | NEW PER-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 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 | 10 GA. GALVANIZED CONTINUOUS SLOPE. |
| 8.01 | PER-FINISHED ALUMINUM STREETFLOAT SYSTEM WITH 1" INSULATED GLAZING |
| 9.01 | 5/8" TYPE "X" GWB PAINTED. |
| 9.08 | 12" GYPSUM BOARD CEILING. |
| 9.12 | CEILING AS SCHEDULED. |
| 9.30 | SCHEDULED DOOR. |
| 12.05 | MANUAL ROLLER SHADE WITH FULL BLACKOUT PANEL. |

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CONSULTATION

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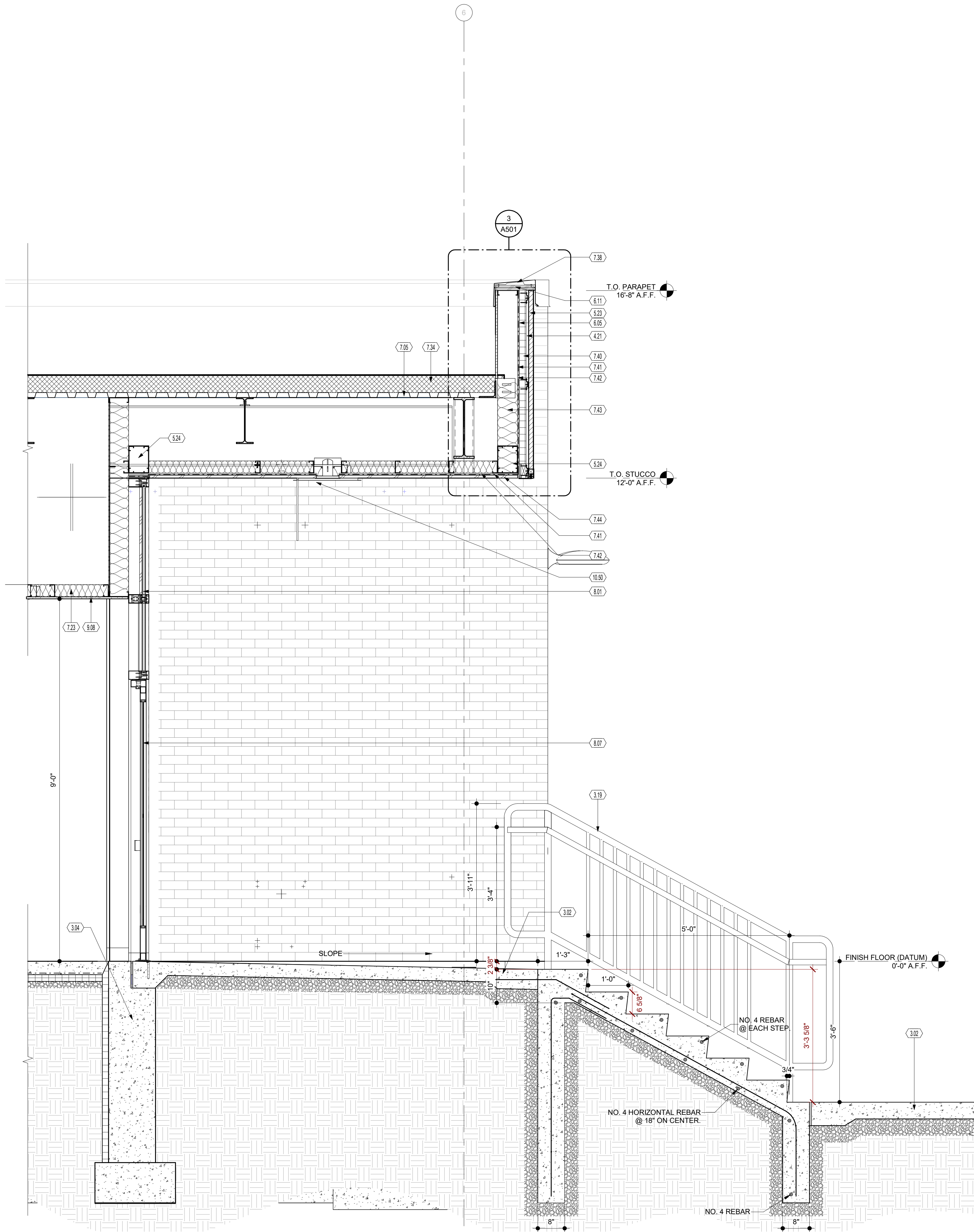
WALL SECTIONS

A310

9/16/2025 10:20:28 AM

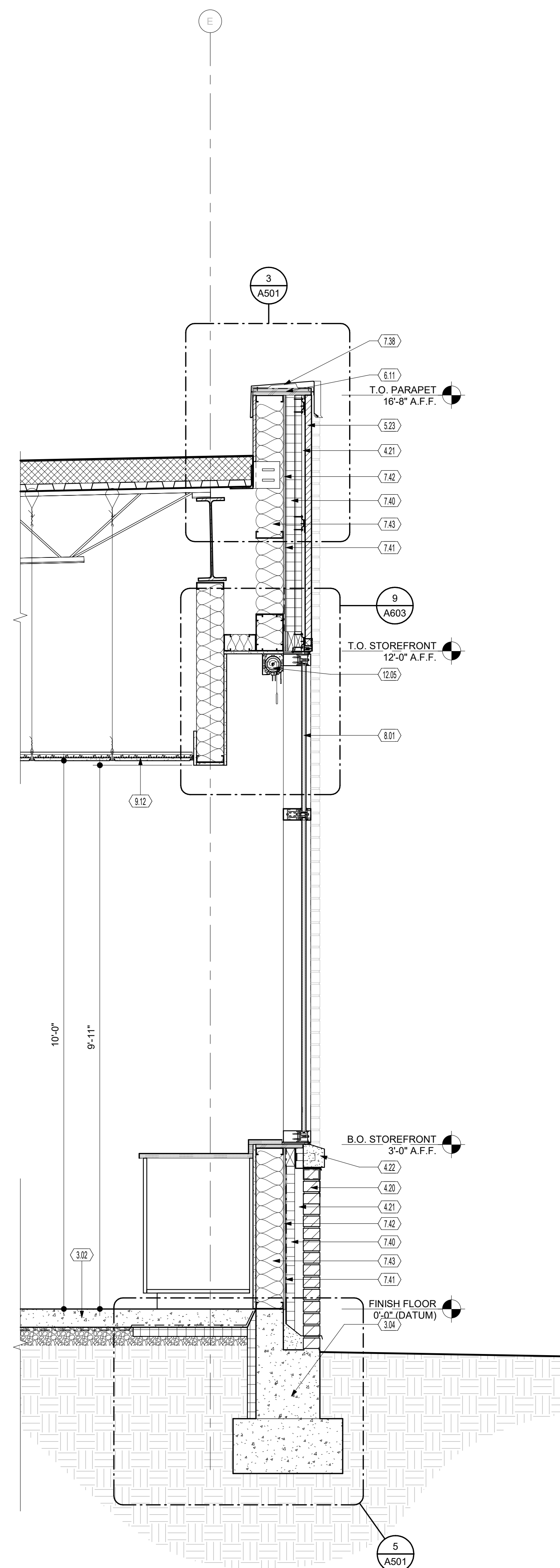
26 WALL SECTION @ NORTH EAST ENTRANCE

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



16 WALL SECTION @ SURGICAL TECH

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.
- 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 TPO 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. TIE 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.
- 7.44 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.

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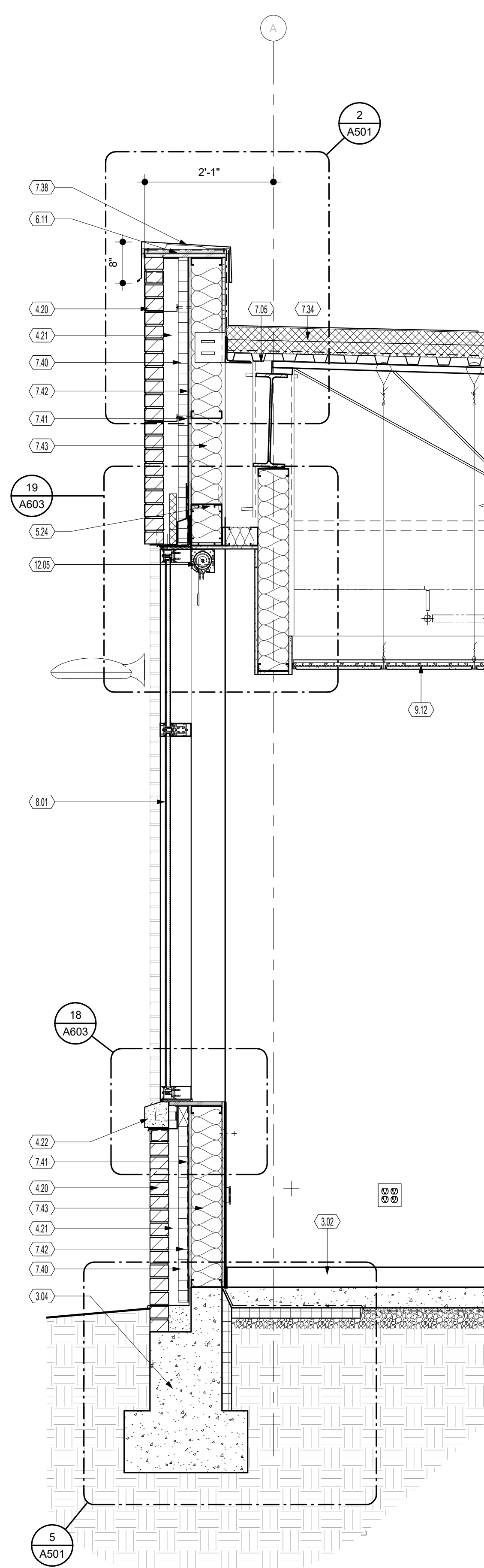
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PROJECT #263306.00
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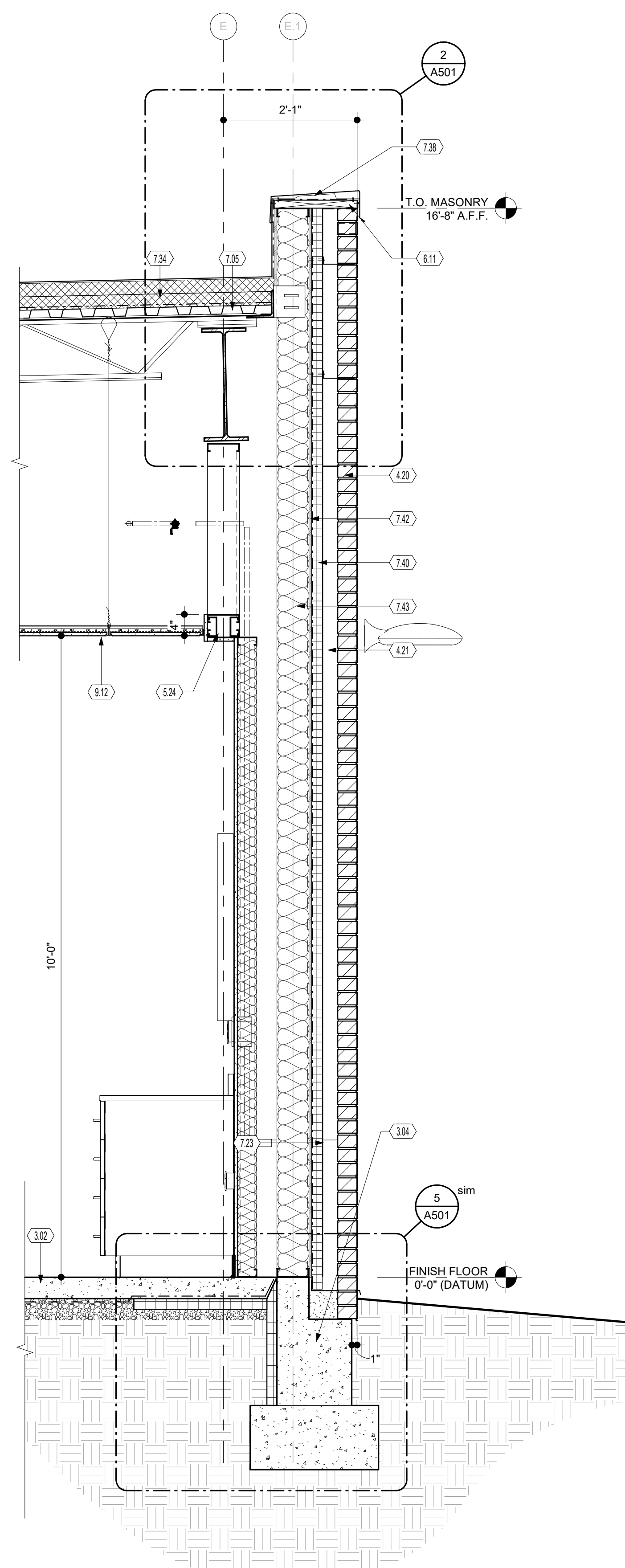
WALL SECTIONS

A311



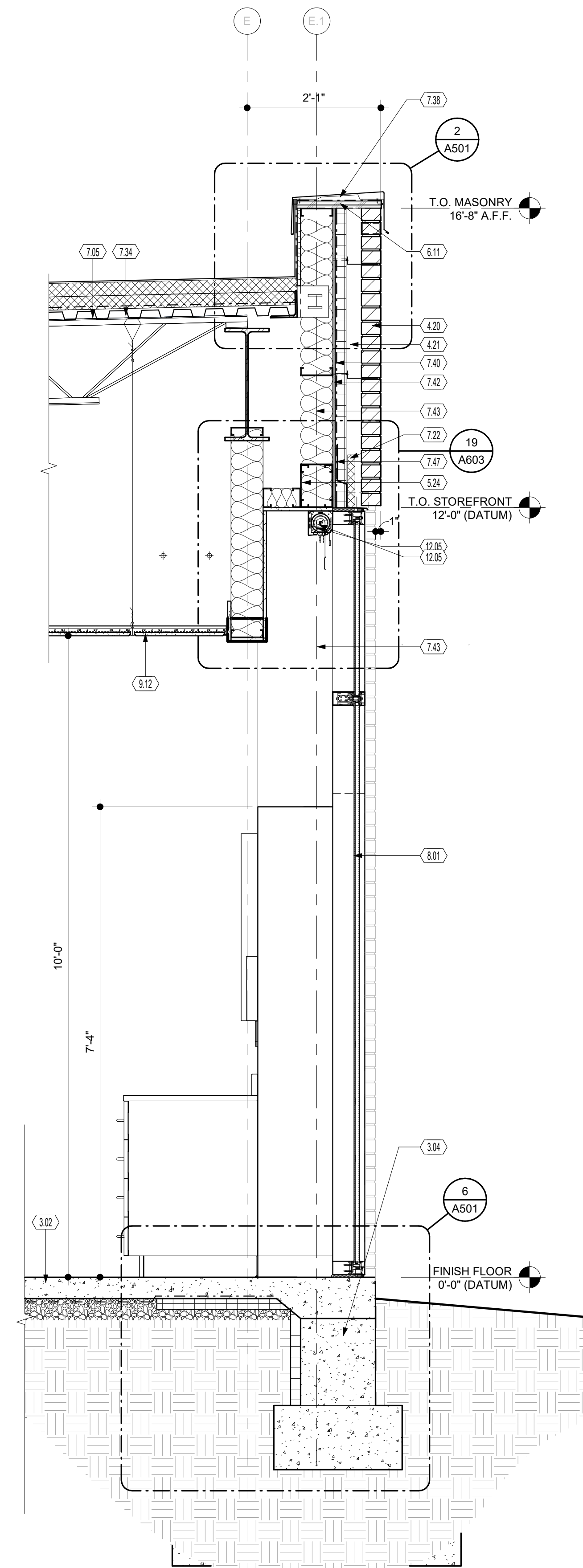
26 WALL SECTION @ CLASSROOM GLAZING

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. |
| 7.05 | METAL DECKING. REFER TO STRUCTURAL DRAWINGS. |
| 7.22 | 2" RIGID POLYSTYRENE INSULATION. |
| 7.23 | 4" FIBERGLASS BATT INSULATION. MINIMUM OF R-13. |
| 7.34 | TOP ROOFING SYSTEM OVER RIGID POLYSTYRENE INSULATION. PROVIDE COMPLETE FLASHING, DRAIN 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 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. |
| 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. |

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STATE OF OHIO
MARK
C.
WISEMAN
13215
REGISTERED ARCHITECT

Mark C. Wiseman, License #132
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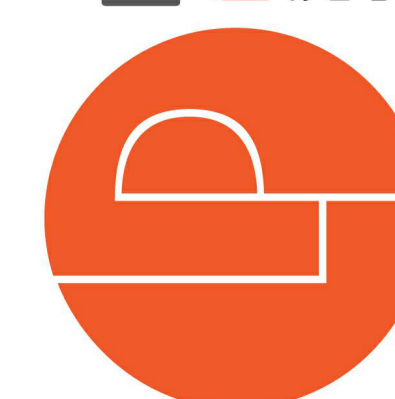
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WALL SECTIONS

A312

1/16/2026 10:20:46 AM

- 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

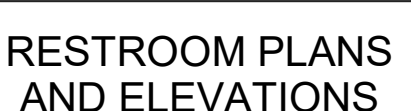
10.01 18" VERTICAL GRAB BAR.
10.02 42" HORIZONTAL GRAB BAR.
10.03 36" HORIZONTAL GRAB BAR.
10.09 SANITARY NAPKIN DISPOSAL PROVIDED BY OWNER. INSTALLED BY CONTRACTOR.
10.10 TOILET TISSUE DISPENSER PROVIDED BY OWNER. INSTALLED BY CONTRACTOR.
10.13 LIQUID SOAP DISPENSER PROVIDED BY OWNER. INSTALLED BY CONTRACTOR.
10.17 PAPER TOWEL DISPENSER PROVIDED BY OWNER. INSTALLED BY CONTRACTOR.
10.20 24" x 36" MIRROR.
22.01 SOLID SURFACE COUNTERTOP AND UNDERMOUNT SINK, WITH PLASTIC LAMINATE SINK BASE.
22.02 TOILET. SEE PLUMBING DRAWINGS.



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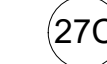
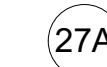
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A401



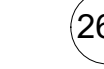
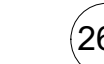
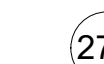
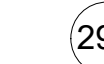
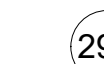
SCALE | 1/4" = 1'-0"



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



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



A. SEE G-002 FOR TYPICAL FIXTURE AND ACCESSORY MOUNTING HEIGHTS.

- 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.

W##X

B - BASE CABIN
TC - TALL CABIN

B#X

D - WITH D
L - LOCKA

- | | |
|-------|--|
| 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" MAGNETIC PORCELAIN WHITE BOARD. |
| 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. |



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



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



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

- A. SEE G-02 FOR FORMAL 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 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. PROVIDE ARCHITECTURAL DRAWINGS FOR WALL MOUNTED EQUIPMENT OR FURNISHINGS AND ADJUST LOCATION OF PME DEVICES AS REQUIRED.

WALL CABINETS

W # # X

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

BASE CABINETS

B # X

MODIFIER
CABINET WIDTH (INCHES)
CABINET TYPE

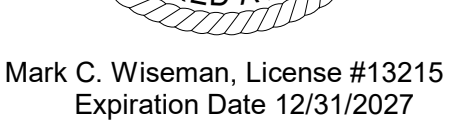
CABINET TYPE

- W - WALL CABINET
- B - BASE CABINET
- TC - TALL CABINET
- D - 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 - DATA CABINET WITH DRAWER
- C - CORNER UNIT
- N - ADA HEIGHT CORNER UNIT
- S - DESK HEIGHT CORNER UNIT

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 TRAC AND CURTAIN SYSTEM.
10.52	4" X 18" MAGNETIC FORMER 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.

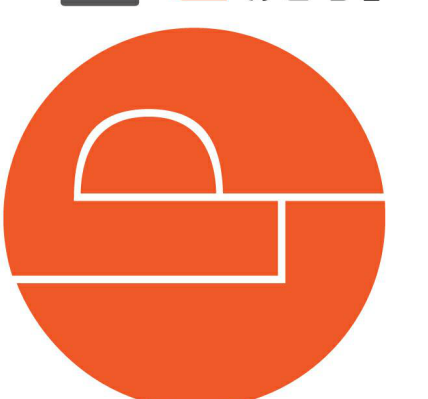
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INTERIOR ELEVATIONS

A411

- 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 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 FINISH 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.

WALL CABINETS

W = WIDTH
H = HEIGHT
X = DEPTH

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

BASE CABINETS

B = WIDTH
H = HEIGHT
X = DEPTH

MODIFIER
CABINET WIDTH (INCHES)
CABINET TYPE

CABINET TYPE

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

MODIFIER

- A - ADA HEIGHT
- 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

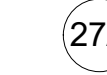
9.28	SOLID SURFACE COUNTERTOP. SEE SCHEDULE
10.52	4' X 16' MAGNETIC PORCELAIN WHITE BOARD.



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



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



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



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

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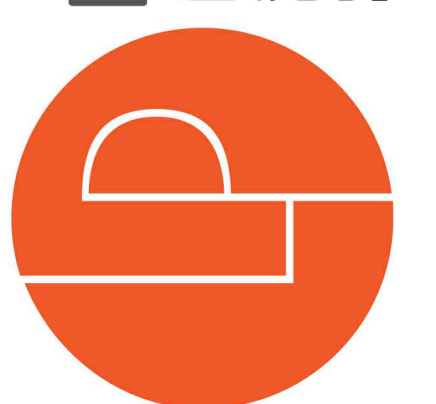
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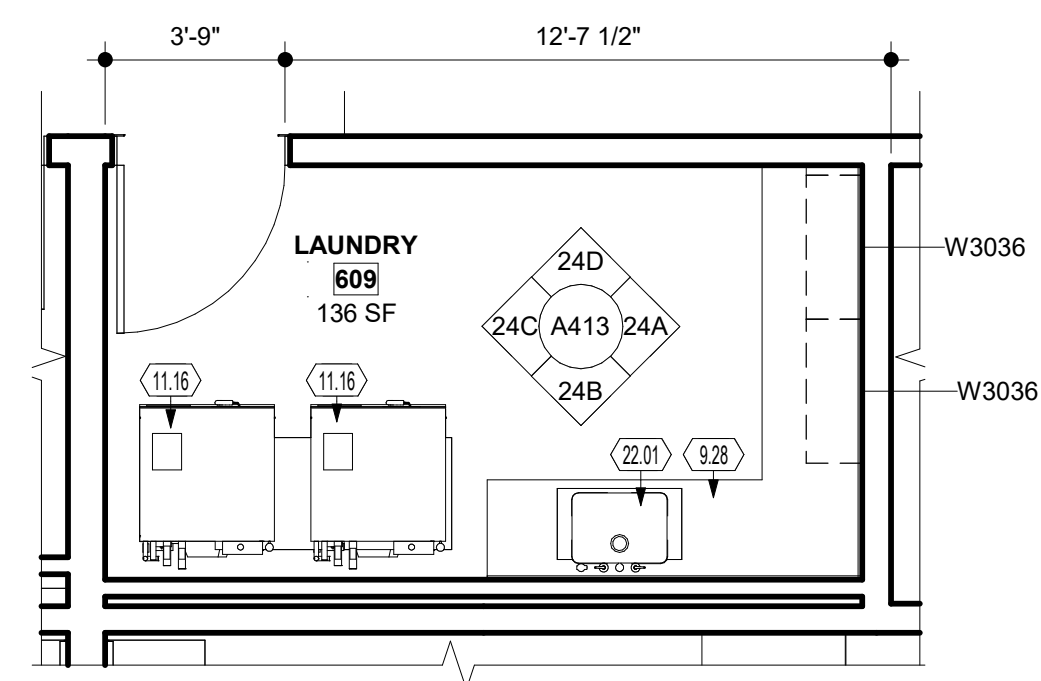
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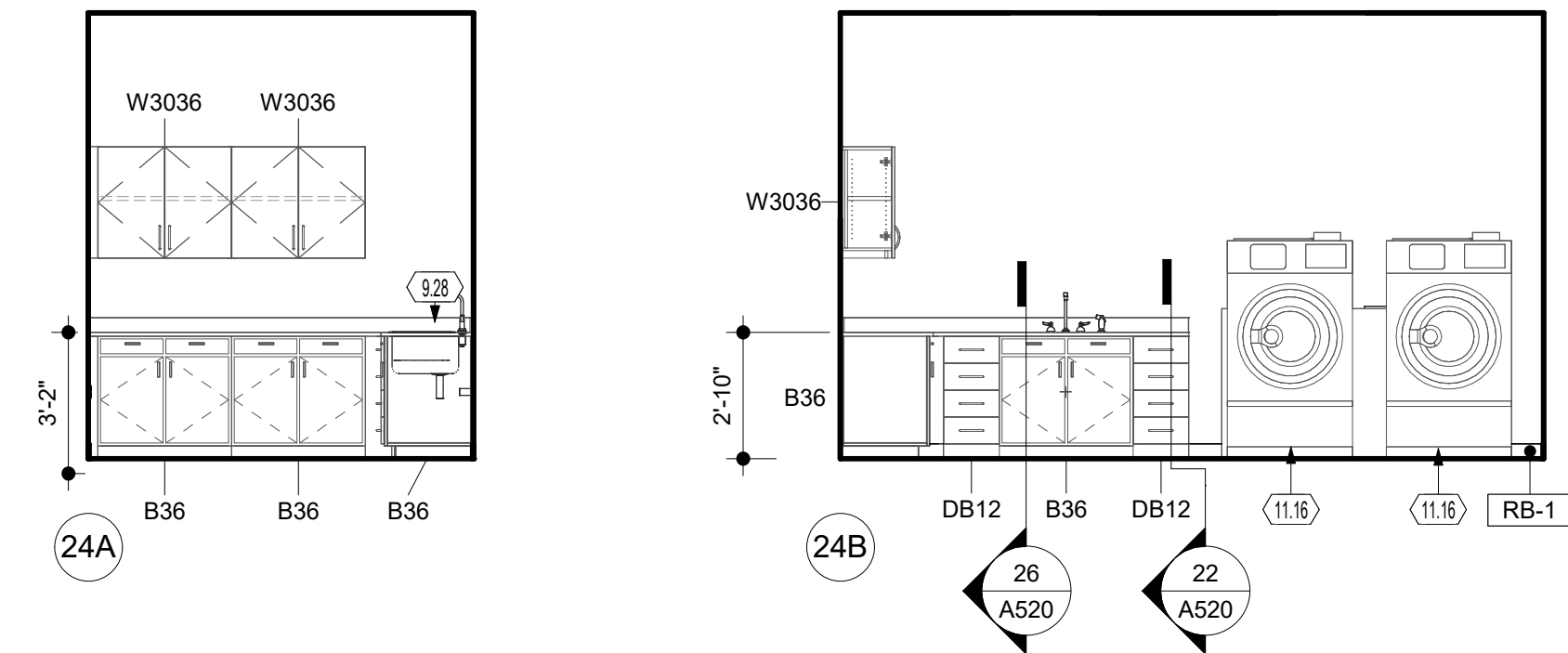


INTERIOR ELEVATIONS

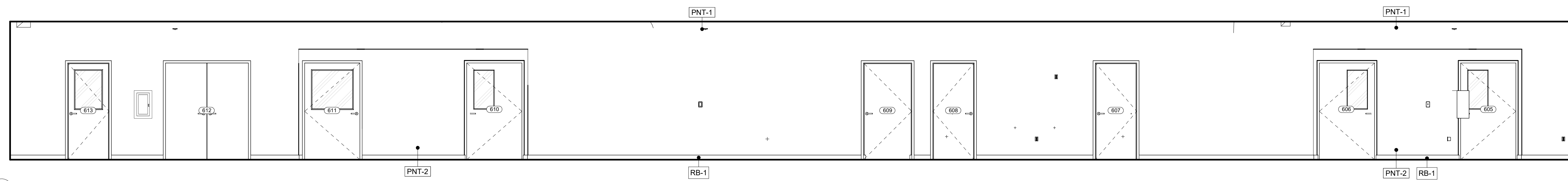
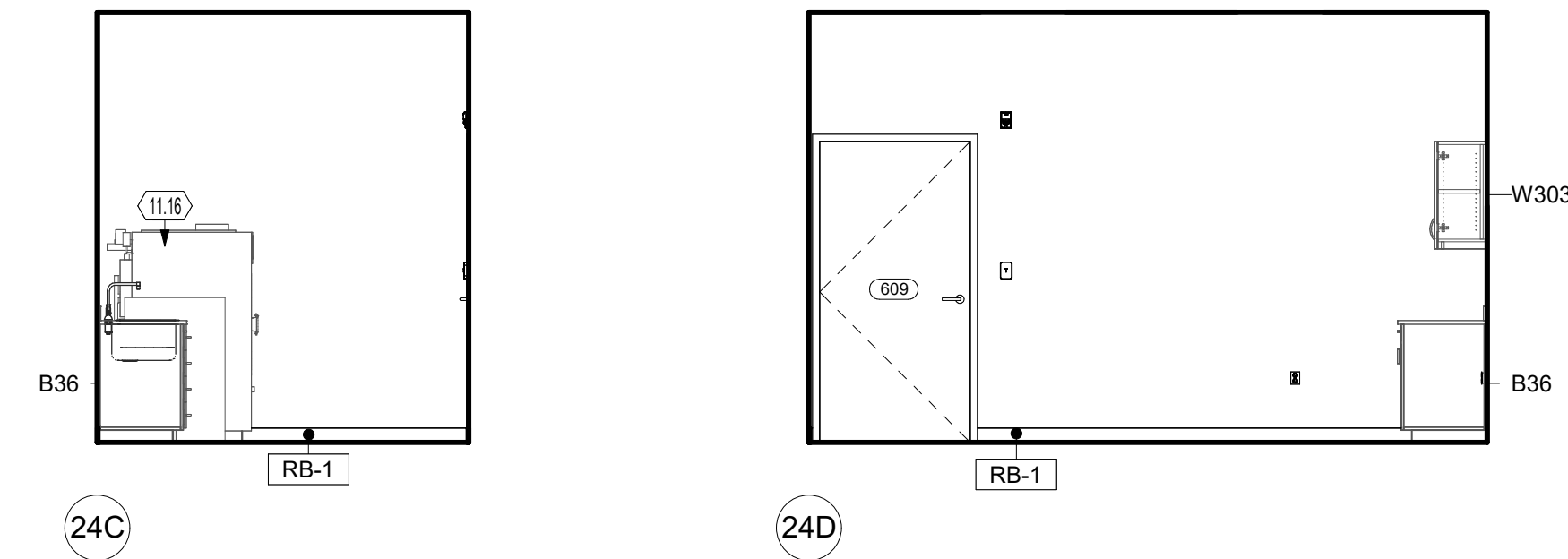
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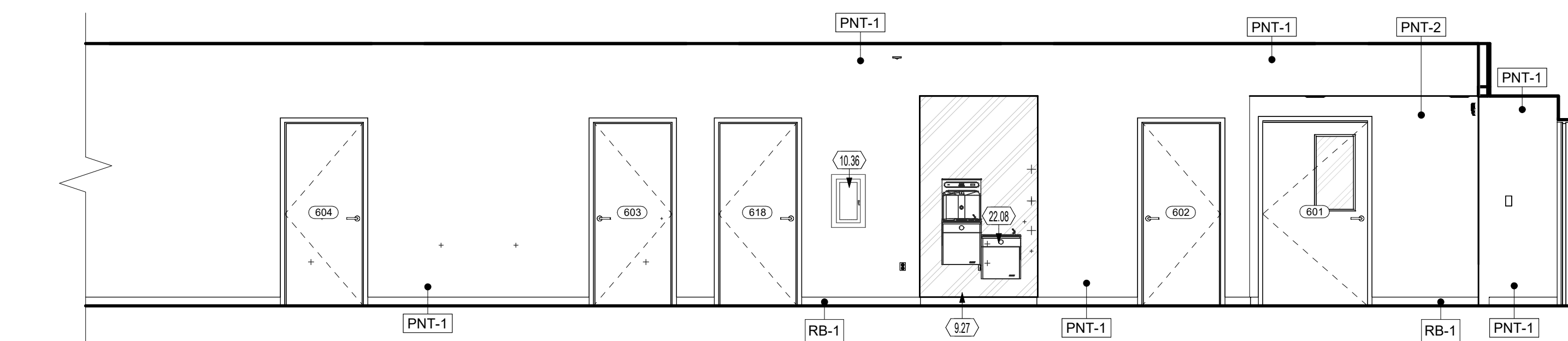
29 ENLARGED LAUNDRY ROOM FLOOR PLAN



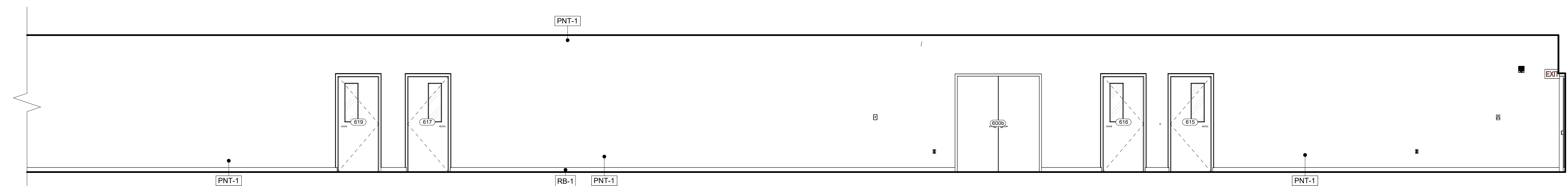
24 LAUNDRY ROOM ELEVATIONS



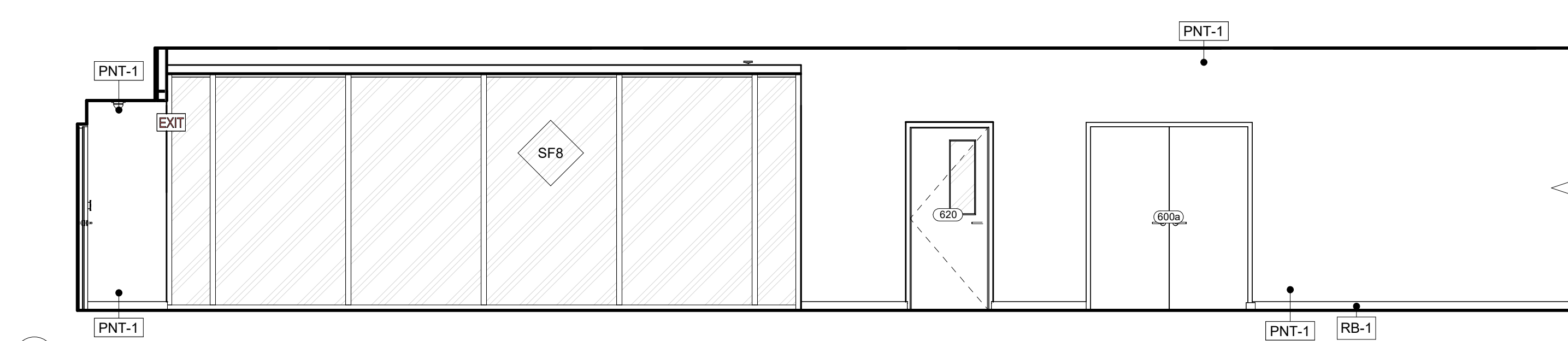
26A



26B



26C



26D

26 CORRIDOR ELEVATIONS

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 BOXES, ETC. FINAL LOCATIONS MAY BE ADJUSTED AT THIS TIME TO ALIGN OR COORDINATE WITH DESIGN INTENT.
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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 VALUE

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 EXTINGUISHER FULLY 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 | H/LOW DRINKING FOUNTAIN WITH BOTTLE FILLERS PER ADA GUIDELINES. SEE PLUMBING DRAWINGS. |



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

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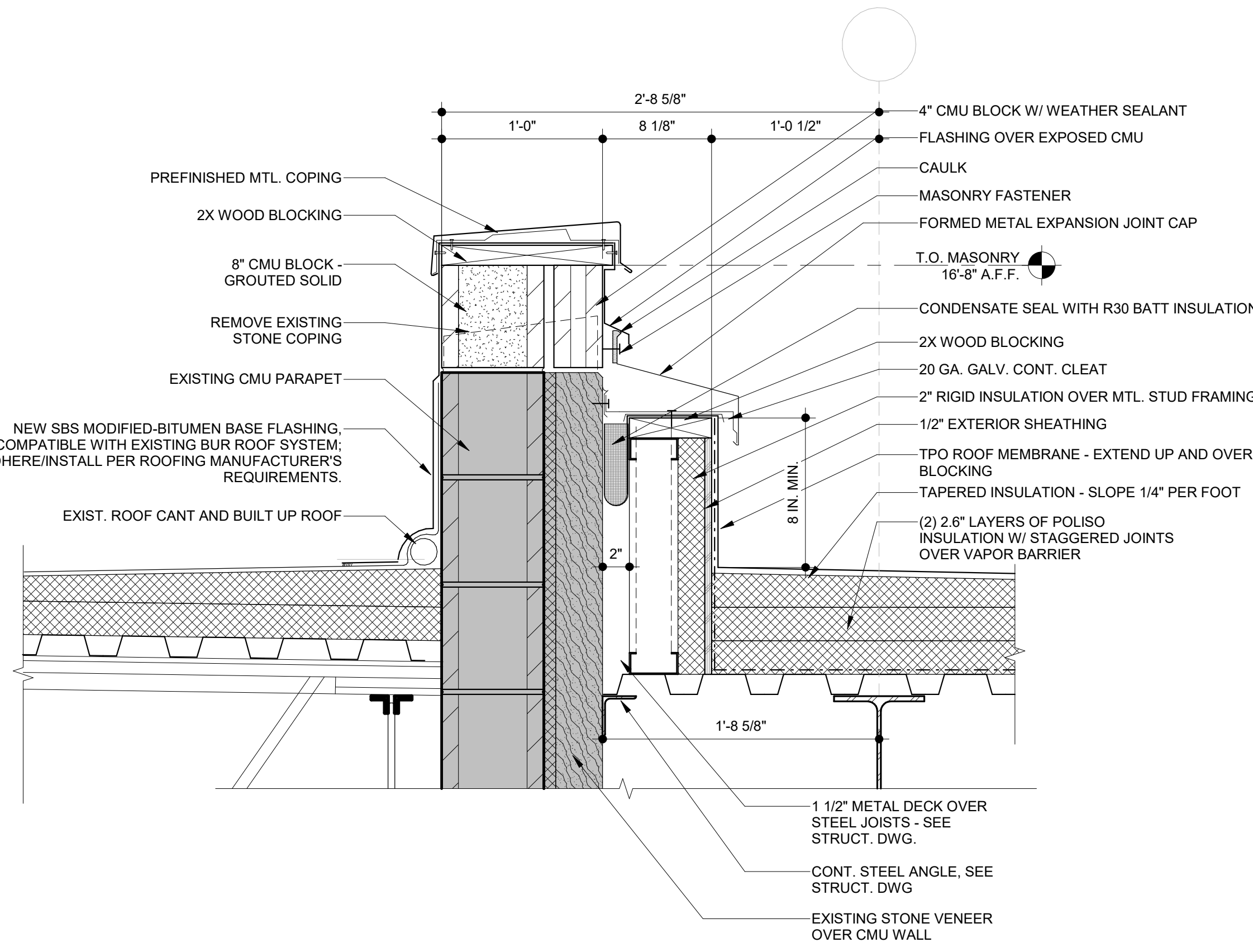
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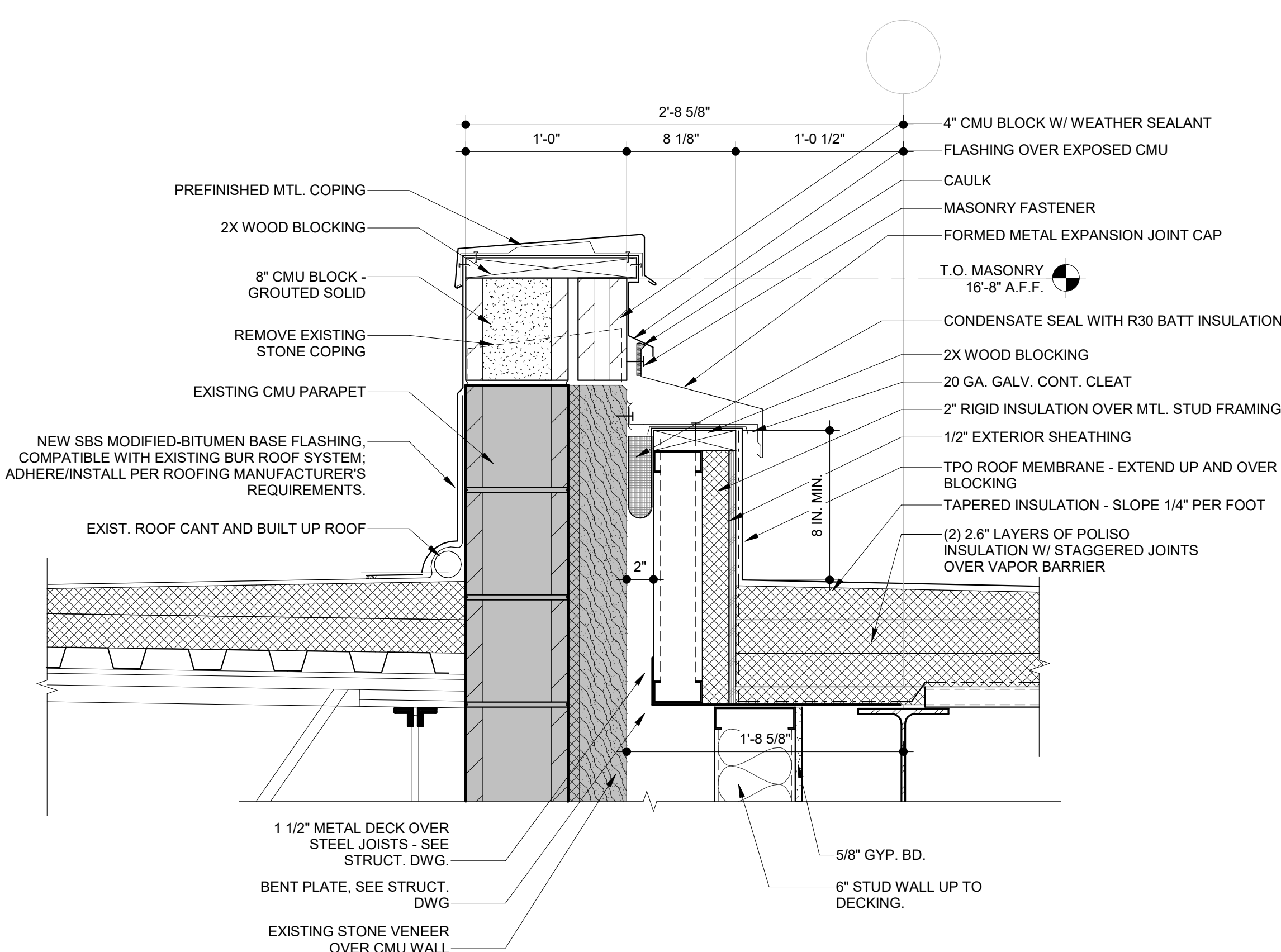


INTERIOR ELEVATIONS

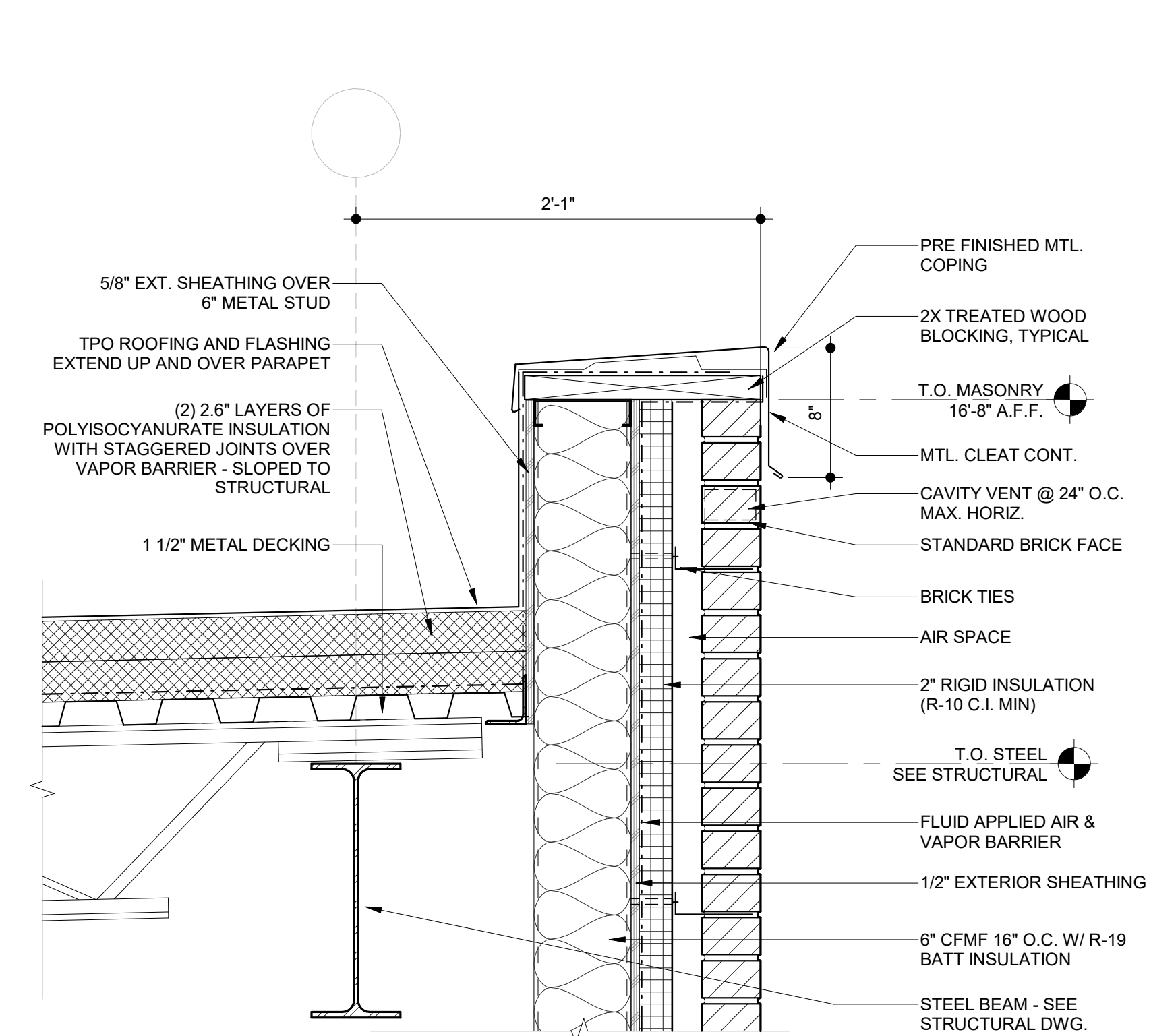
A413



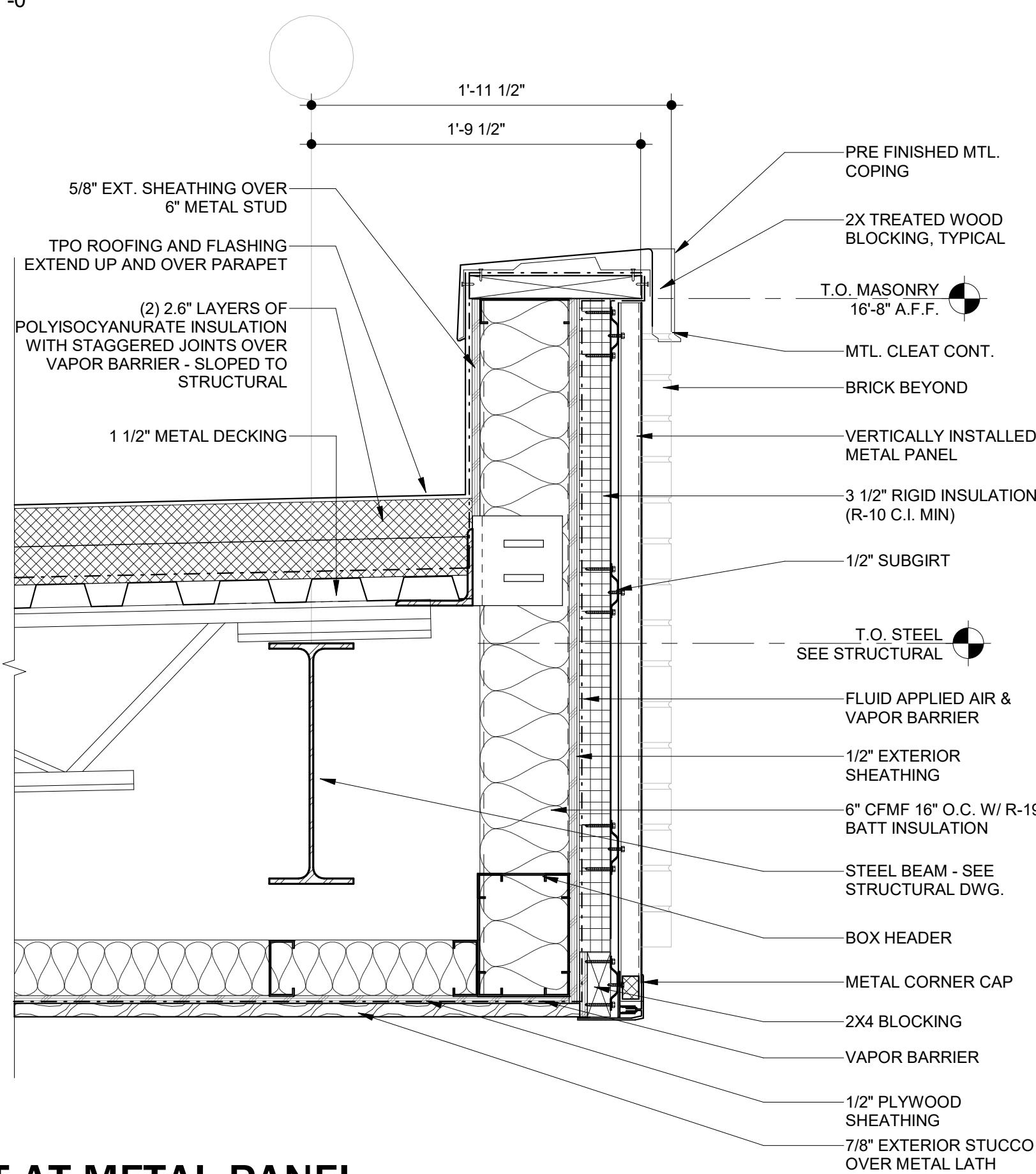
1 ROOF EXPANSION JOINT DETAIL @ CORRIDOR
SCALE | 1 1/2" = 1'-0"



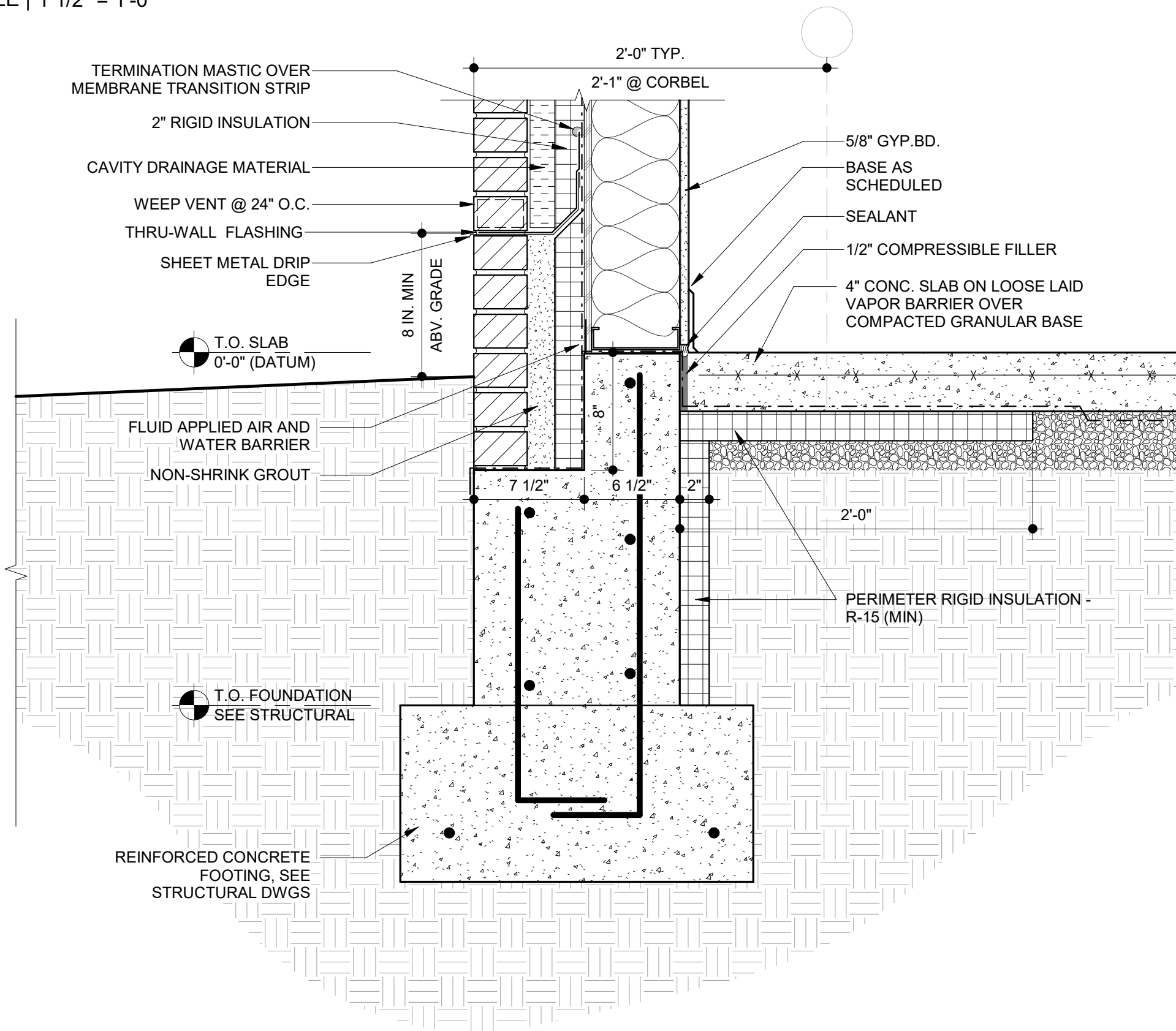
8 ROOF EXPANSION JOINT DETAIL @ EXISTING OPENING
SCALE | 1 1/2" = 1'-0"



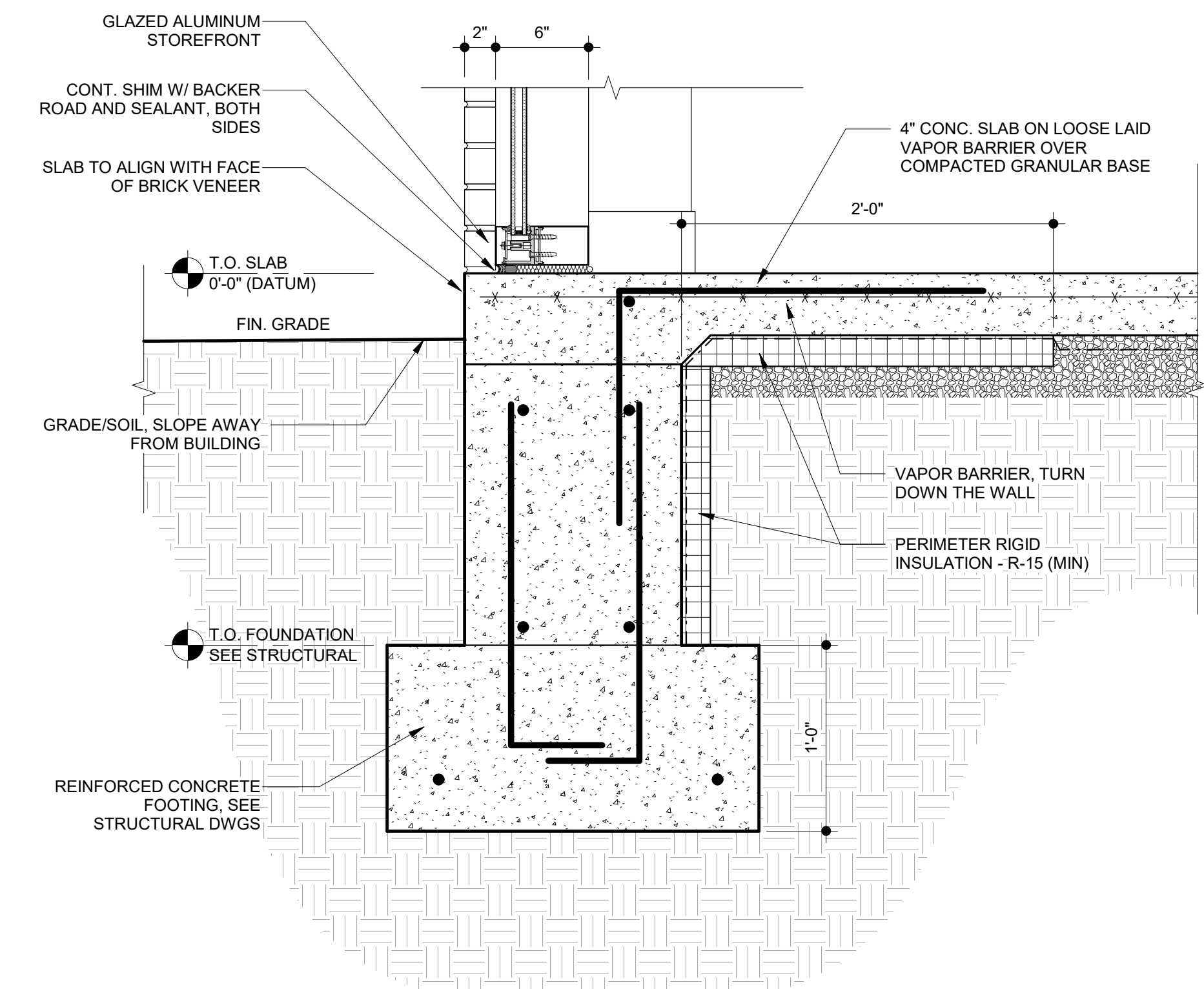
2 PARAPET AT BRICK
SCALE | 1 1/2" = 1'-0"



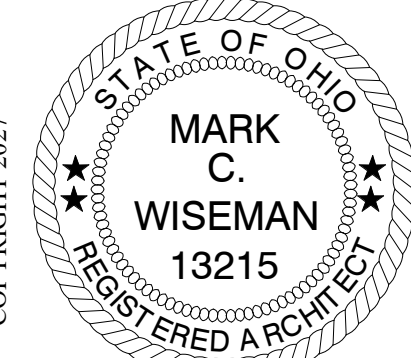
3 PARAPET AT METAL PANEL
SCALE | 1 1/2" = 1'-0"



5 FOUNDATION DETAIL @ EXTERIOR WALL
SCALE | 1 1/2" = 1'-0"



6 FOUNDATION DETAIL @ STOREFRONT
SCALE | 1 1/2" = 1'-0"



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

REVISIONS :

Number	Description	Date
1	Bld / Permit Set	09/13/2025

PRINTINGS :

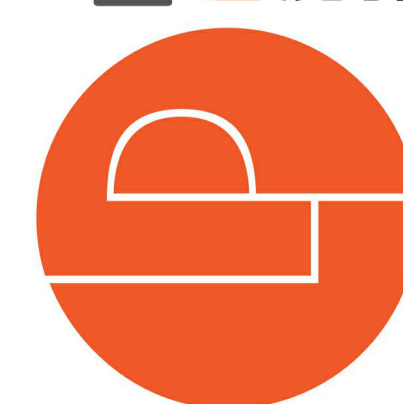
CONSULTANTS

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



PROJECT NO:
PROJECT #263306.00
CHECKED BY:
Checker
DRAWN BY:
Author
DATE:
09/13/2025

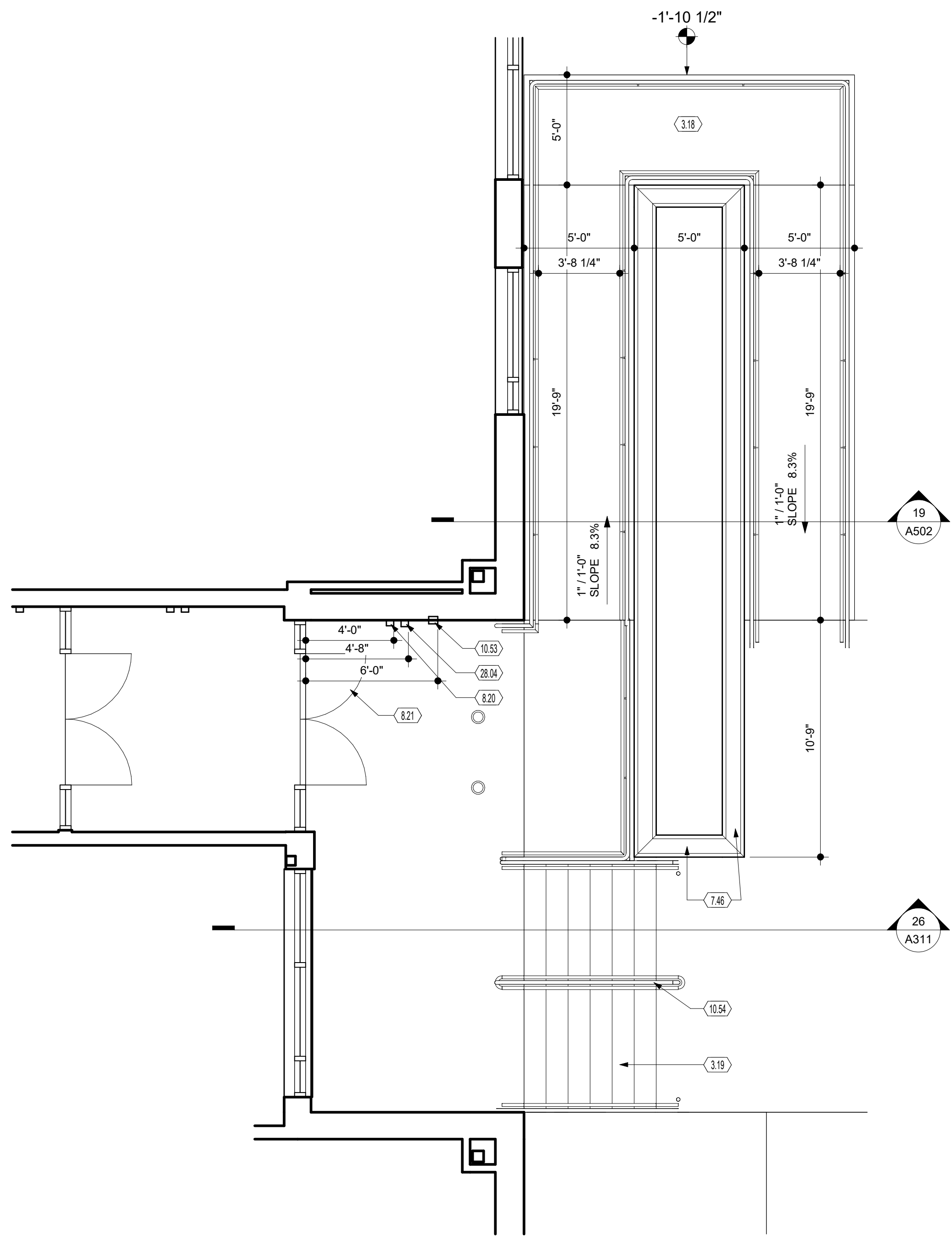
**LEVIN PORTER
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3011 DELUMARK DRIVE
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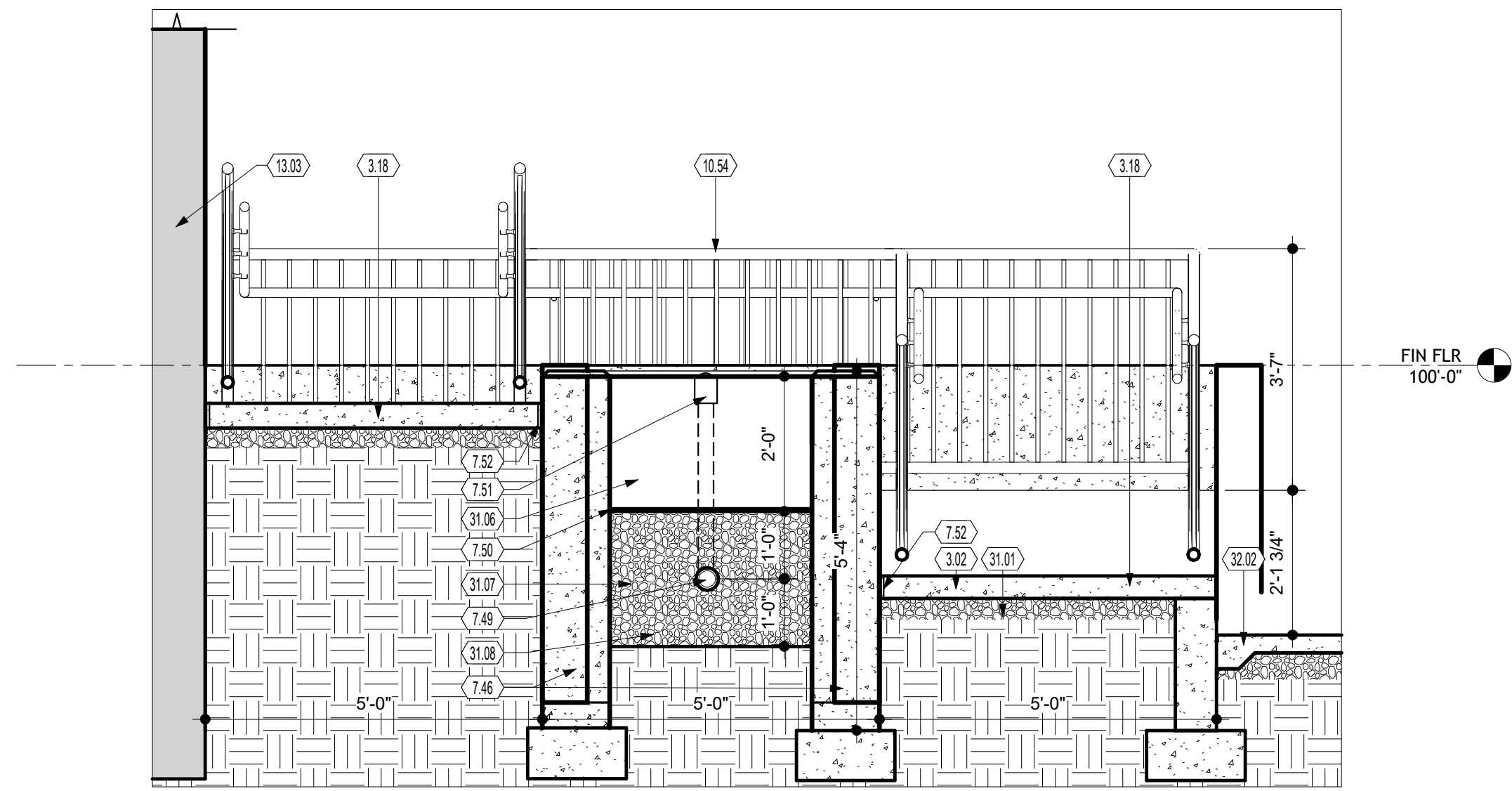
EXTERIOR DETAILS

A501

28 ENLARGED RAMP & STAIRS PLAN
SCALE | 1/4" = 1'-0"



19 RAMP SECTION
SCALE | 1/2" = 1'-0"



18 RAMP & STAIRS ELEVATION
SCALE | 1/4" = 1'-0"



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 RECESSED 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.

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STATE OF OHIO

MARK C. WISEMAN

13215

REGISTERED ARCHITECT

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

REVISIONS:	Number	Description	Date
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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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Levin Porter Associates Inc. dba Levin Porter architects

EXTERIOR DETAILS

A502

WALL CABINETS

W H 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 TAPE HANGING CABINET
- SC - STUDENT CUBICLES

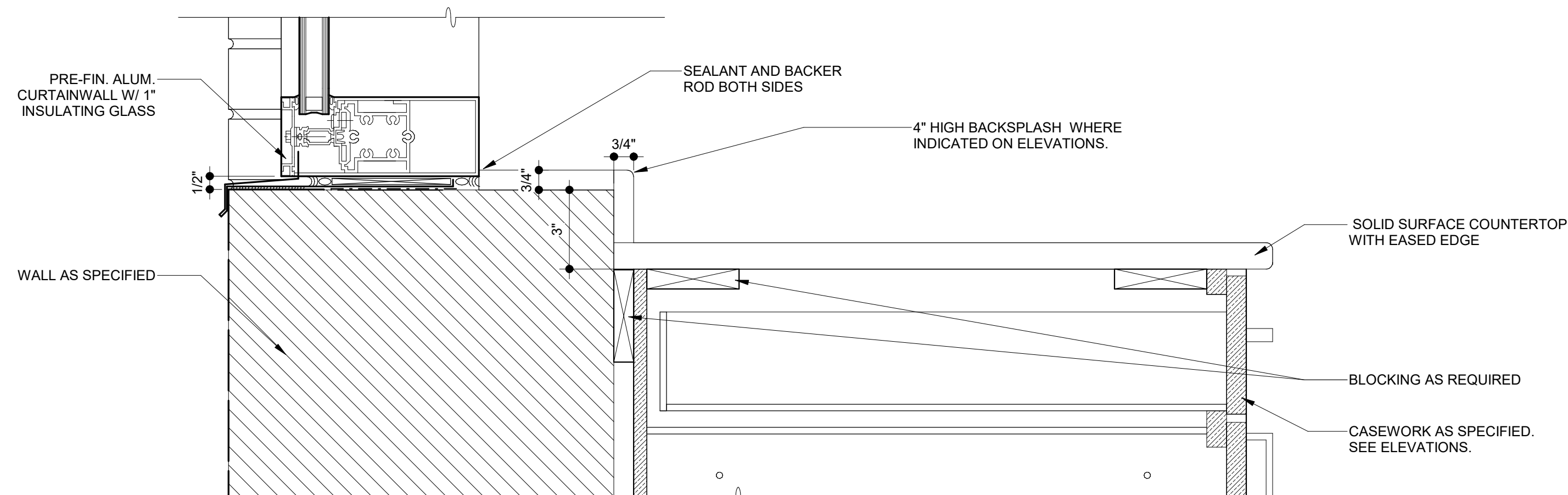
BASE CABINETS

B H 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



WALL TYPE AS SCHEDULED

4" HIGH BACKSPLASH AND SIDESPLASH WHERE INDICATED ON ELEVATIONS.

SINK AND FAUCET AS SPECIFIED SEE PLUMBING DRAWINGS

EPOXY COUNTERTOP WITH MARINE EDGE

5/8"

2'-8"

FALSE DRAWER

BLOCKING AS REQUIRED

WHITE FOAM INSULATION ON ALL EXPOSED PLUMBING

PLASTIC LAMINATE CABINET DOOR DRAWERS AND HARDWARE

2'-10"

PROVIDE WHITE MELAMINE INTERIOR

PLASTIC LAMINATE BASE CABINET WITH 1/2" BACK PANEL

3"

RUBBER BASE AS SCHEDULED (RB-1)

T.O. CABINET
 7'-0" A.F.F.

CONT. WOOD CLEAT FOR
 MOUNTING. GC REQUIRED
 TO PROVIDE ADEQUATE
 BLOCKING AS REQUIRED.

1/2" WHITE MELAMINE
 INTERIOR BACK PANEL

3/4" PLASTIC LAMINATE
 ADJUSTABLE SHELVES

PLASTIC LAMINATE CABINET
 DOOR - SEE SCHEDULE

HARDWARE AS
 SPECIFIED

WALL TYPE AS
 SCHEDULED

CABINET HEIGHT

WALL TYPE AS SCHEDULED

SOLID SURFACE COUNTERTOP W/ EASED EDGE

2'-1"

RAKKS EH-1818PM CONCEALED COUNTER SUPPORT BRACKETS AT 24" ON CENTER. MILL FINISH

HEX WASHER HEAD SELF-DRILLING SCREWS. ATTACH TO STUDS AS SHOWN.

RUBBER BASE AS SCHEDULED (RB-1)

2'-10"

5"

5"

5"

5"

3"

WALL TYPE AS SCHEDULED

2'-0"

GC TO PROVIDE ADEQUATE BLOCKING AS REQUIRED

WHITE MELAMINE INTERIOR

PLASTIC LAMINATE WALL CABINET WITH 3/4" BACK AND SIDE PANEL. SEE FINISH SCHEDULE

FULL HEIGHT PLASTIC LAMINATE CABINET DOOR AND HARDWARE AS SPECIFIED

WHITE MELAMINE INTERIOR

3"

RUBBER BASE AS SCHEDULED (RR-1)

7'-0"

WALL TYPE AS SCHEDULED

4" HIGH BACKSPLASH AND SIDESPLASH WHERE INDICATED ON ELEVATIONS. PROVIDE .018 PVC EDGBAND

SINK AND FAUCET AS SPECIFIED SEE PLUMBING DRAWINGS

SOLID SURFACE COUNTERTOP WITH EASED EDGE

FALSE DRAWER

BLOCKING AS REQUIRED

PLASTIC LAMINATE CABINET DOOR DRAWERS AND HARDWARE

PROVIDE WHITE MELAMINE INTERIOR

PLASTIC LAMINATE BASE CABINET WITH 1/2" BACK PANEL

RUBBER BASE AS SCHEDULED (SEE 4)

1"

2'-0"

2'-10"

4"

3"

WALL TYPE AS SCHEDULED

4" HIGH BACKSPLASH AND SIDESPLASH
WHERE INDICATED ON ELEVATIONS.
PROVIDE .015 PVC EDGBAND

SOLID SURFACE COUNTERTOP
WITH EASED EDGE

1"

2'-0"

PLASTIC LAMINATE FILLER PANEL
AND SINGLE DRAWER W/ PULL

DUST PANEL

BLOCKING AS REQUIRED

PLASTIC LAMINATE CABINET DOOR
DRAWERS AND HARDWARE

PLASTIC LAMINATE ADJUSTABLE
SHELVES

PROVIDE WHITE
MELAMINE INTERIOR

PLASTIC LAMINATE BASE
CABINET WITH 1/2" BACK PANEL

2'-10"

RUBBER BASE AS
SCHEDULED (RB-1)

3"

1/2"

WALL TYPE AS SCHEDULED

4" HIGH BACKSPLASH AND SIDESPLASH WHERE INDICATED ON ELEVATIONS.

1"

2'-8"

EPOXY COUNTERTOP WITH MARINE EDGE

PLASTIC LAMINATE FILLER PANEL AND SINGLE DRAWER W/ PULL

DUST PANEL

BLOCKING AS REQUIRED

PLASTIC LAMINATE CABINET DOOR DRAWERS AND HARDWARE

PLASTIC LAMINATE ADJUSTABLE SHELVES.

PROVIDE WHITE MELAMINE INTERIOR

PLASTIC LAMINATE BASE CABINET WITH 1/2" BACK PANEL

4"

3"

2'-10"

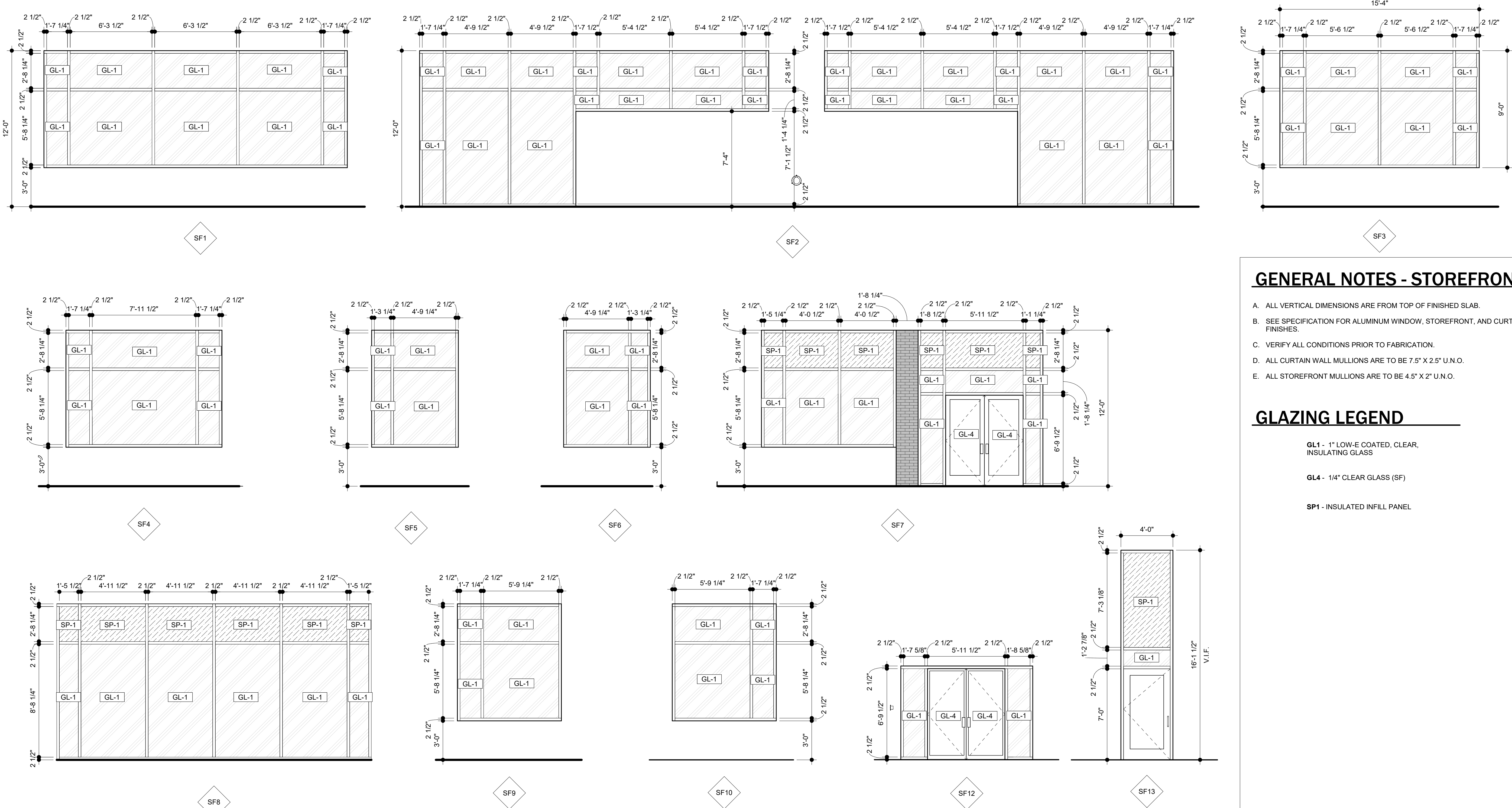
RUBBER BASE AS SCHEDULED (RB-1)

CASEWORK TALL CABINET - ADJUSTABLE SHELVES

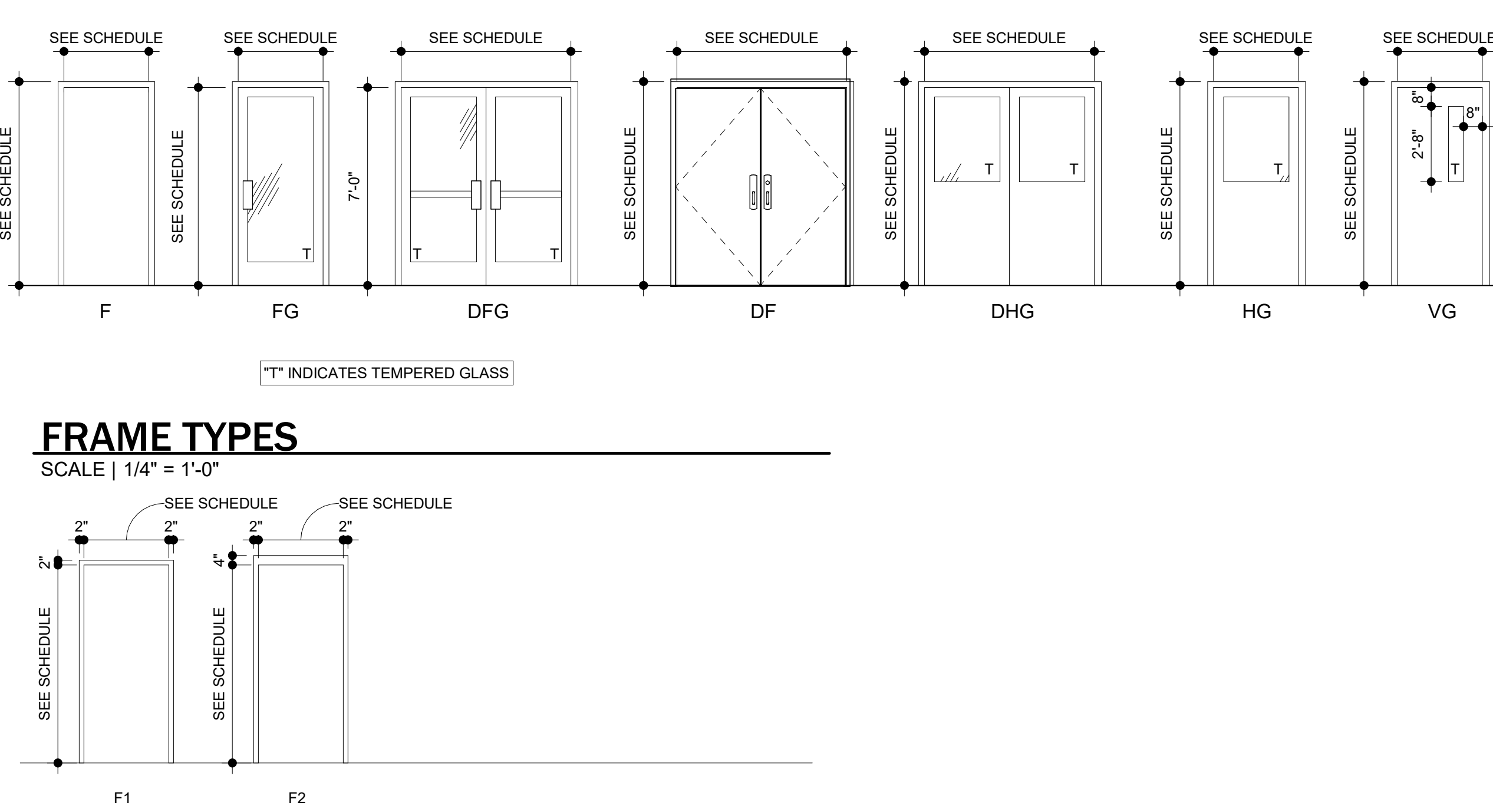
DOOR SCHEDULE

DR #		ROOM #	TYPE	WIDTH	HEIGHT	DOOR			MATERIAL	FINISH	TYPE	FRAME		FRAME FINISH	DETAILS		HEAD	JAMB	DOOR -	FIRE RATING	ACCESS CONTROL	NOTES
						THICK													HARDWARE SET			
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	6									
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									
609	609	F	3'-6"	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	611	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	9									
613	613	HG	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	2									
614a	614	DFG	5'-11 1/2"	7'-0"	1 3/4"	ALUM	CLR-1	SF	ALUM	CLR-1	30	29	8									
614b	614	DFG	5'-11 1/2"	7'-0"	1 3/4"	ALUM	CLR-1	SF	ALUM	CLR-1	30	29	8									
615	615	GG	3'-0"	7'-0"	1 3/4"	WOOD	ST-1	F1	HM	PNT-7	28	27	2									
616	600	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	620	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	28	27	2									

EXTERIOR STOREFRONT ELEVATIONS

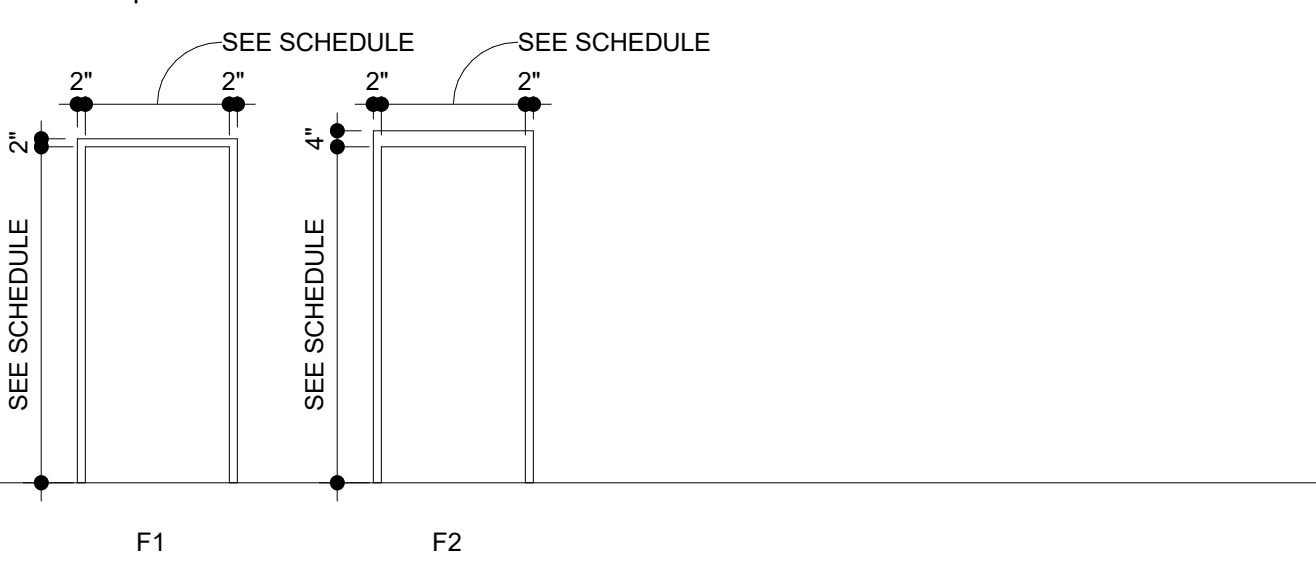


DOOR TYPES



FRAME TYPES

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



GENERAL DOOR SCHEDULE NOTES

- 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 OCCOUR AT CENTERLINE OF DOOR.

DOOR HARDWARE SCHEDULE

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 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.2
Single door, access control.
Doors: 615, 616, 617, 619, 620, 609, 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
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.4
Single door, classroom function.
Doors: 605a, 606a, 610a, 611a
3 EA BB-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
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.5
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 (vently 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 Square 8310-853T
1 EA Threshold - ADA
1 EA Door contact
Note: Card Reader, Power Supply
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 withall cause the automatic operator to open (interior is always enabled). Free egress at all times.

Hardware Set No.8
Double aluminum entrance, interior.
Door: 614b
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-wall 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

GENERAL NOTES - STOREFRONT

- A. ALL VERTICAL DIMENSIONS ARE FROM TOP OF FINISHED SLAB.
- B. SEE SPECIFICATION FOR ALUMINUM WINDOW, STOREFRONT, AND CURTAIN WALL FINISHES.
- C. VERIFY ALL CONDITIONS PRIOR TO FABRICATION.
- D. ALL CURTAIN WALL MULLIONS ARE TO BE 7.5" X 2.5" U.N.O.
- E. ALL STOREFRONT MULLIONS ARE TO BE 4.5" X 2" U.N.O.

GLAZING LEGEND

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

GL-4 - 1/4" CLEAR GLASS (SF)

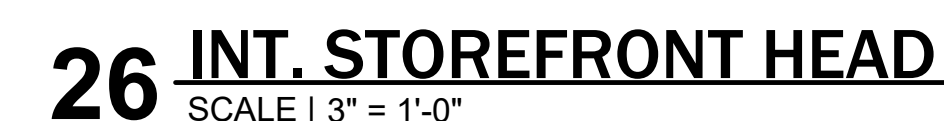
SP-1 - INSULATED INFILL PANEL



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

REVISIONS :		Date	Description
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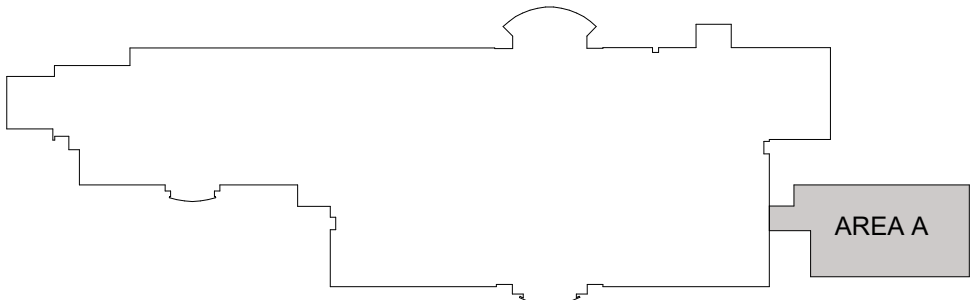


GENERAL NOTES - DEMOLITION

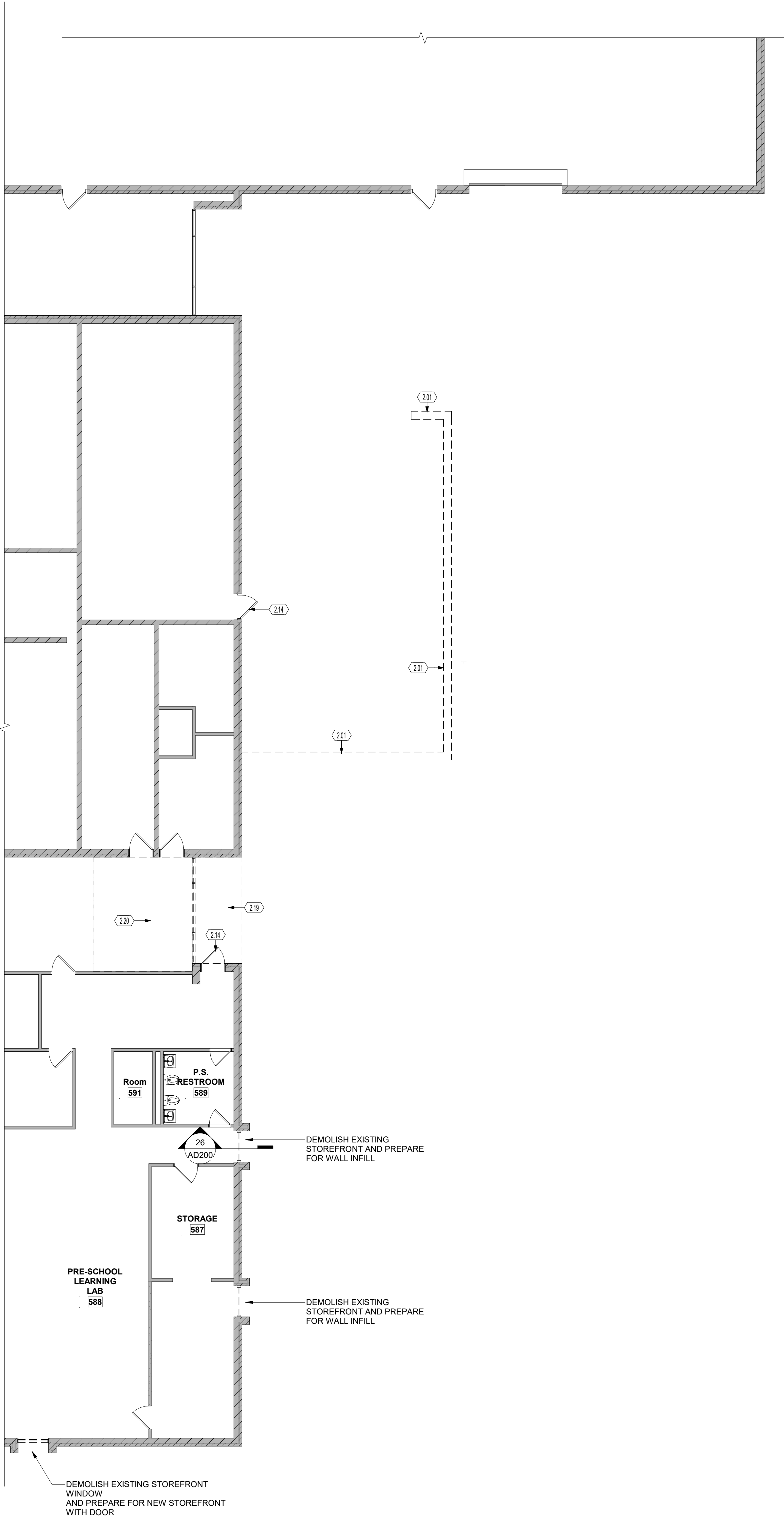
- A. PROTECT EXISTING STRUCTURE, ADJACENT WINDOWS, DOORS AND OTHER BUILDING ELEMENT DURING DEMOLITION.
- B. CONTRACTOR TO MAINTAIN ACCESS TO EXITS DURING DEMOLITION AND CONSTRUCTION.
- C. INSTALL AND ADJUST DUST BARRIERS AND WALK OFF MATS AT ALL DOORWAYS ADJACENT TO MAIN CORRIDOR. COORDINATE THE LOCATION 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

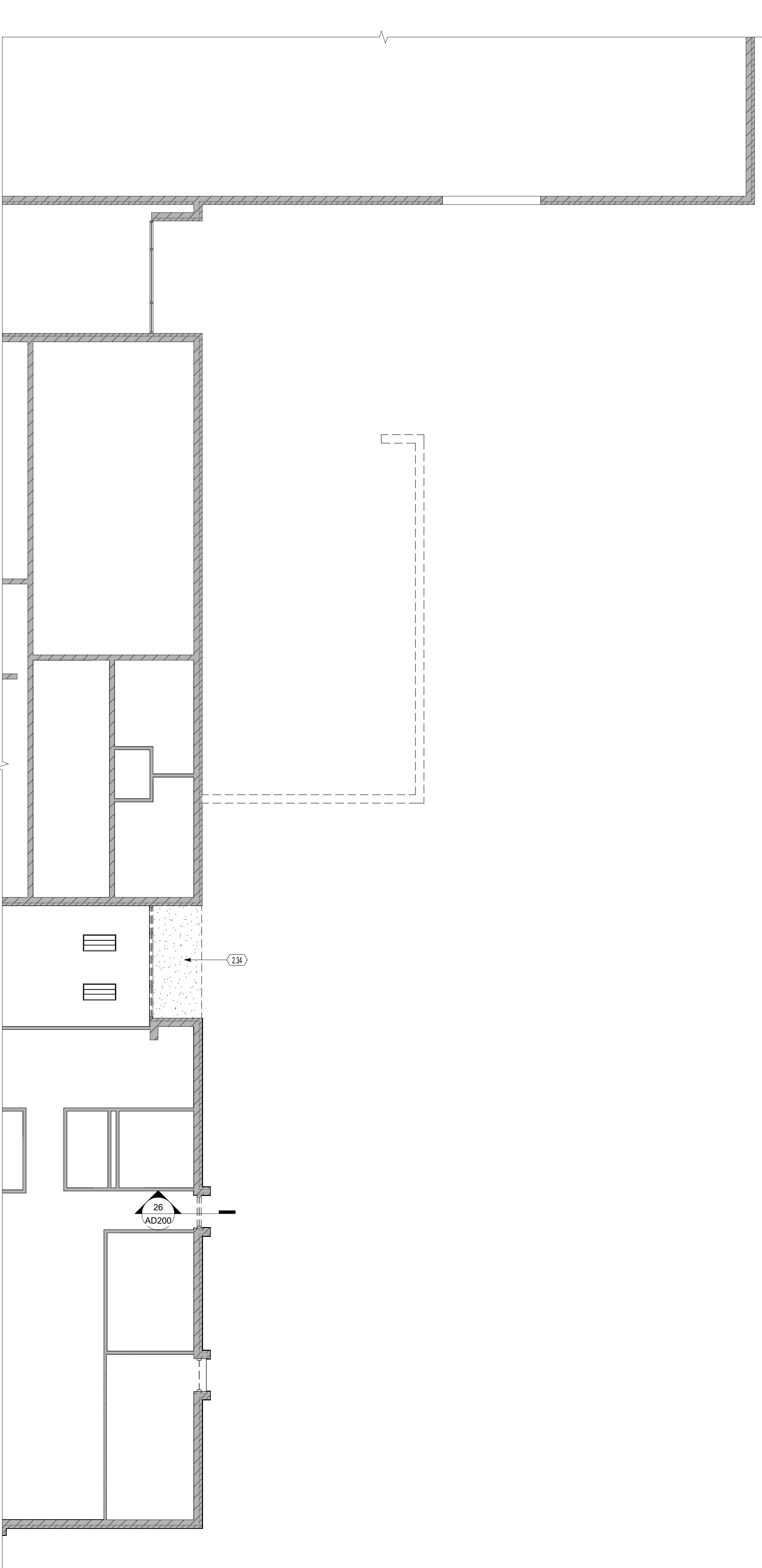
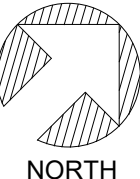
- 2.01 DEMOLISH WALL/PARTITION IN ITS ENTIRETY.
- 2.14 EXISTING DOOR, FRAME AND HARDWARE TO REMAIN.
- 2.19 REMOVE EXISTING CONCRETE FLOOR SLAB AS REQUIRED. SEE PME DRAWINGS FOR ADDITIONAL INFORMATION. NOTE: AREAS SHOWN MAY NOT INCLUDE ALL CONCRETE SLAB TO BE REMOVED. - VERIFY EXTENT REQUIRED WITH STRUCTURAL,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



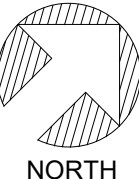
KEY PLAN



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



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



STATE OF OHIO
MARK C. WISEMAN
13215
REGISTERED ARCHITECT

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Expiration Date 12/31/2027

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Number	Description	Date

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MEDICAL ACADEMY

3525 OH-48, Lebanon, OH 45036

WC

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PROJECT #263306.00
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DRAWN BY:
Author
DATE:
09/12/2025

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FP

FIRST FLOOR PLAN - DEMO

AD101



- 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 WITH THE 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.
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- 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 BUT NOT LIMITED TO: WALLS, FLOORS, CEILING, AND 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 AND FIRE ALARM DEVICES. FIRE EXTINGUISHERS, ILLUMINATION AND LIFE SAFETY SYSTEMS AS NOTED OTHERWISE BE REQUIRED IN AN OCCUPIED SPACE. PROTECT DETECTION DEVICES FROM ACCIDENTAL ACTIVATION DURING CONSTRUCTION BY BARRIERS OR OTHER MEANS. REMOVE DETECTION DEVICES 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.

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

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PROJECT NO. _____

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#263306.00

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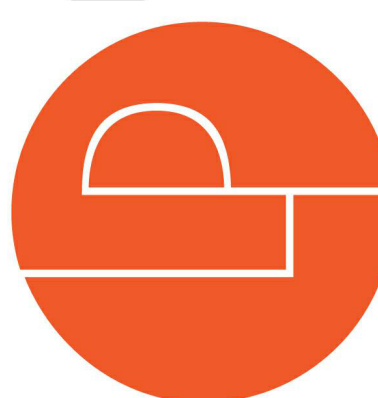
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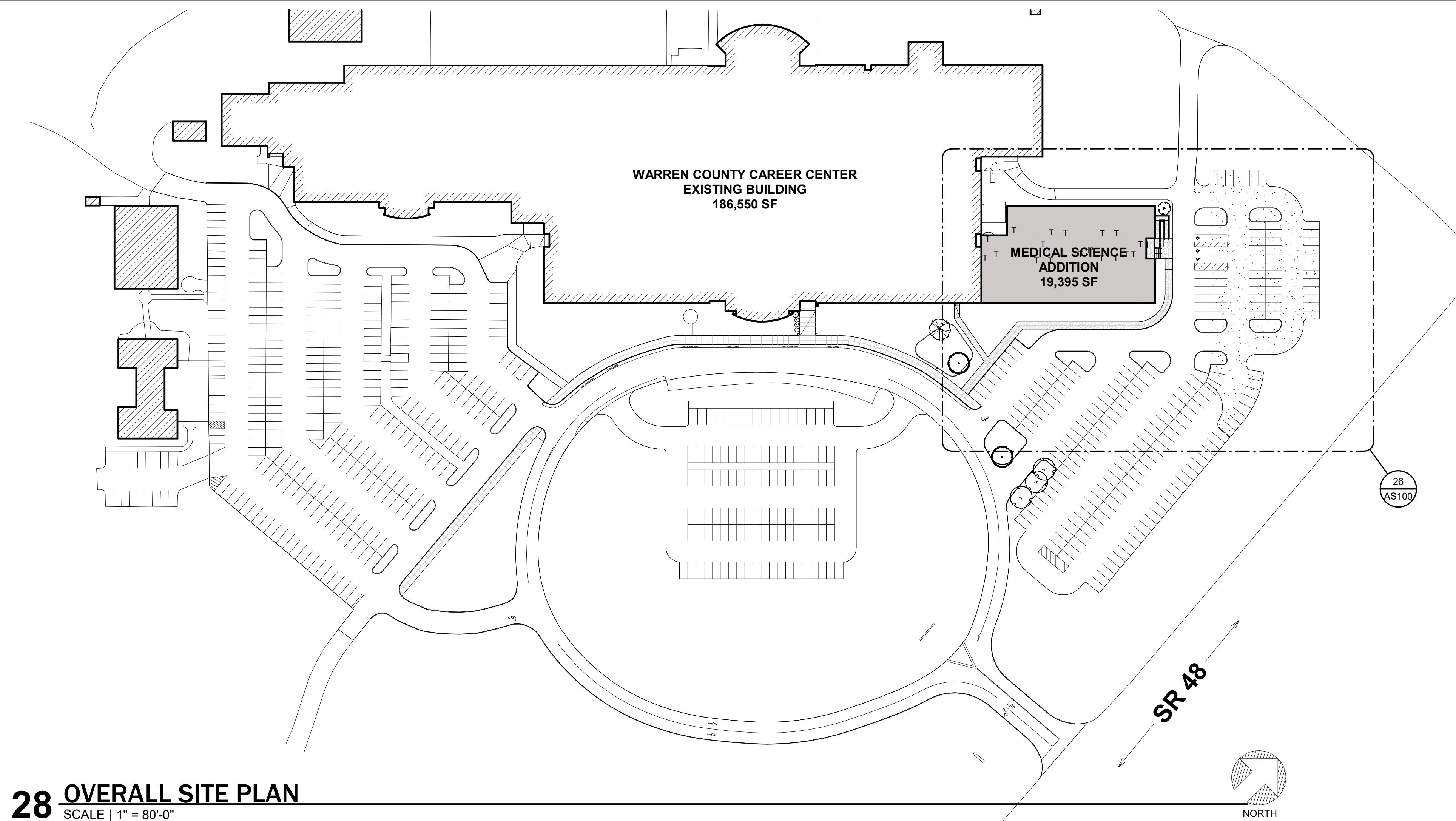
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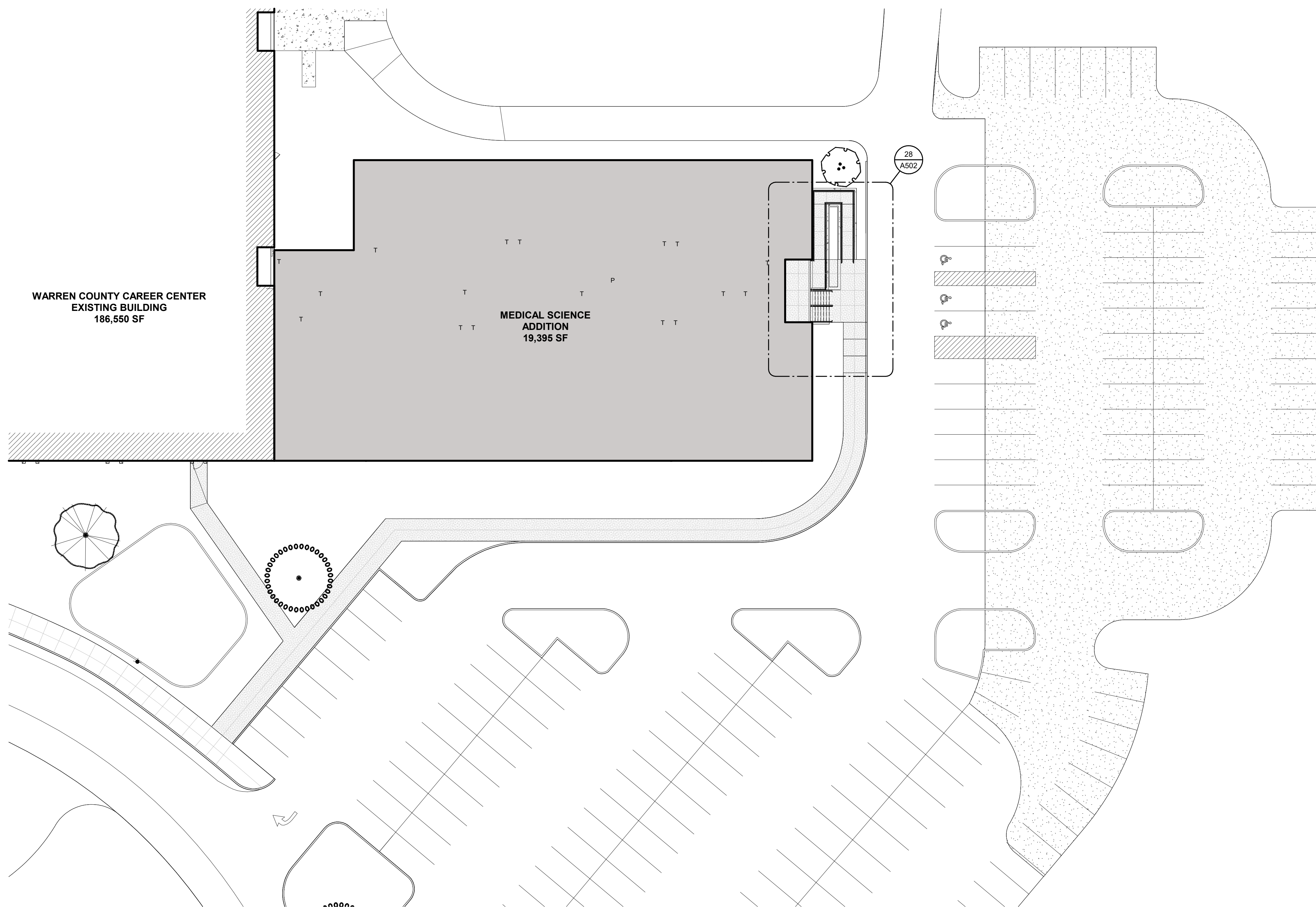


EMOLITION DETAILS AND SECTIONS

AD200



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



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



Mark C. Wiseman, License #13215
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Levin Porter Associates Inc. dba Levin Porter Architects



ARCHITECTURAL SITE
PLAN

AS100

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.
- ALL 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.

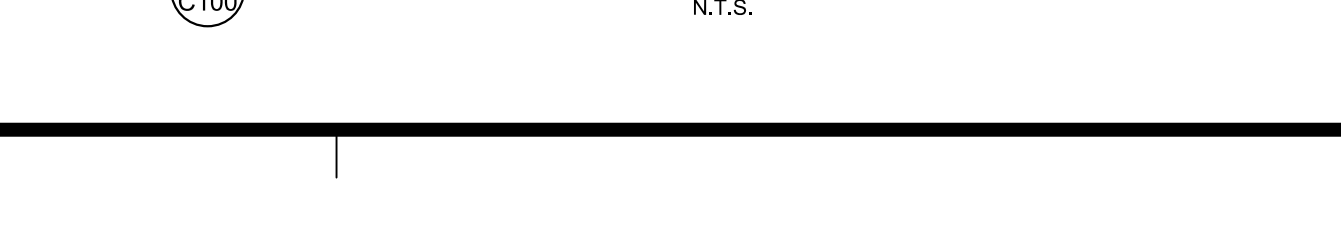
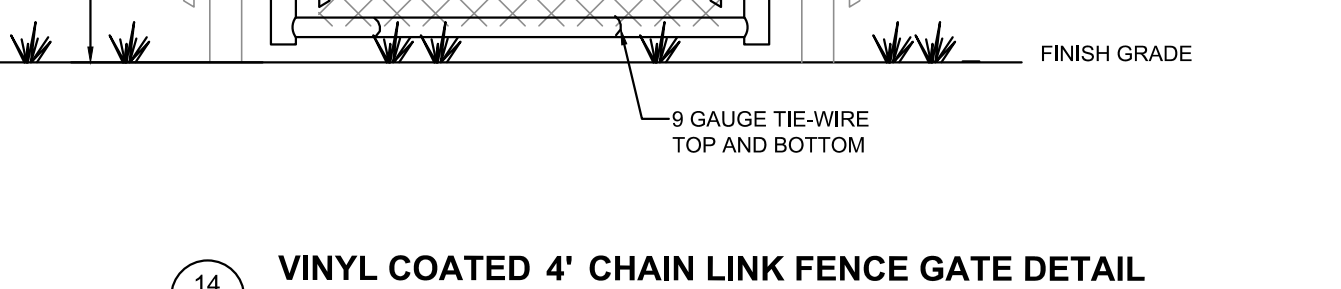
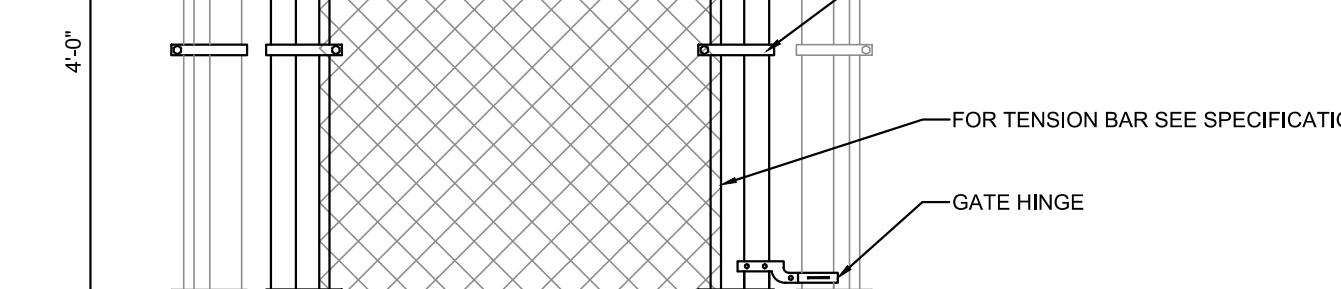
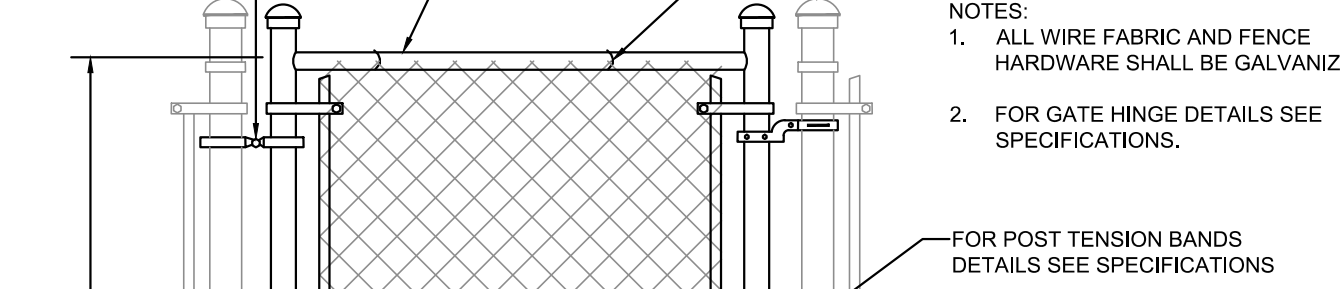
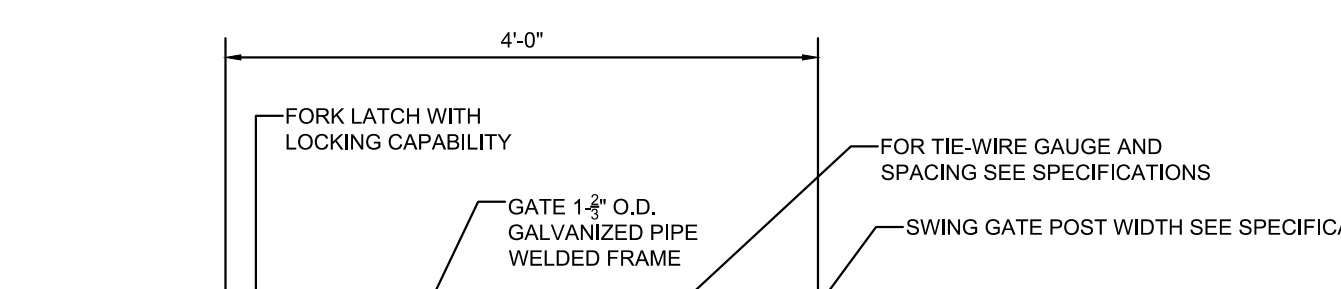
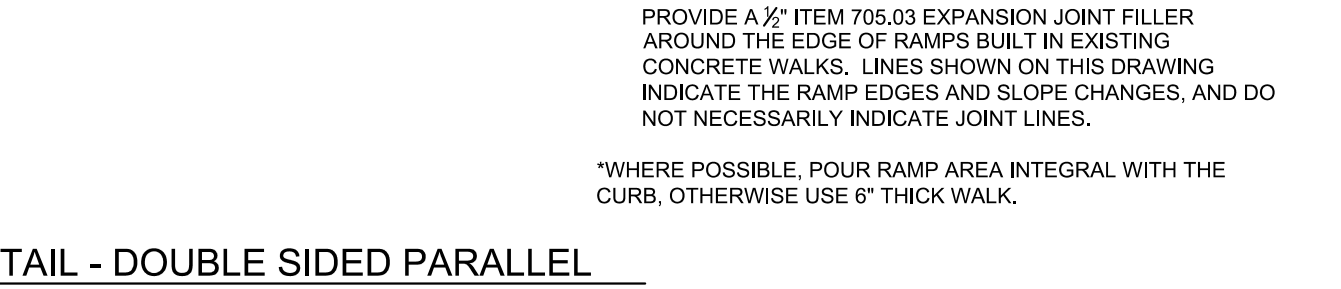
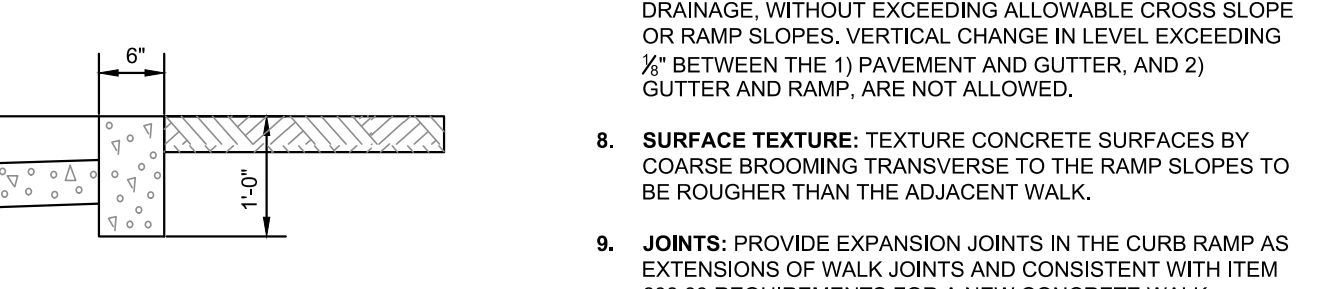
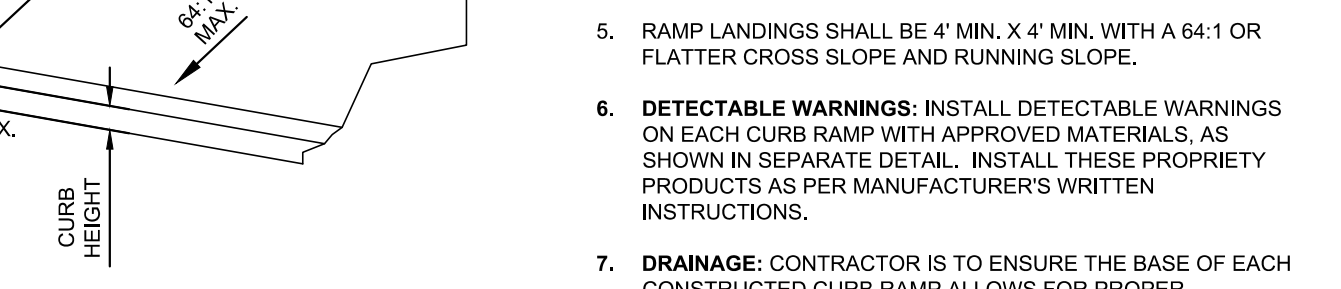
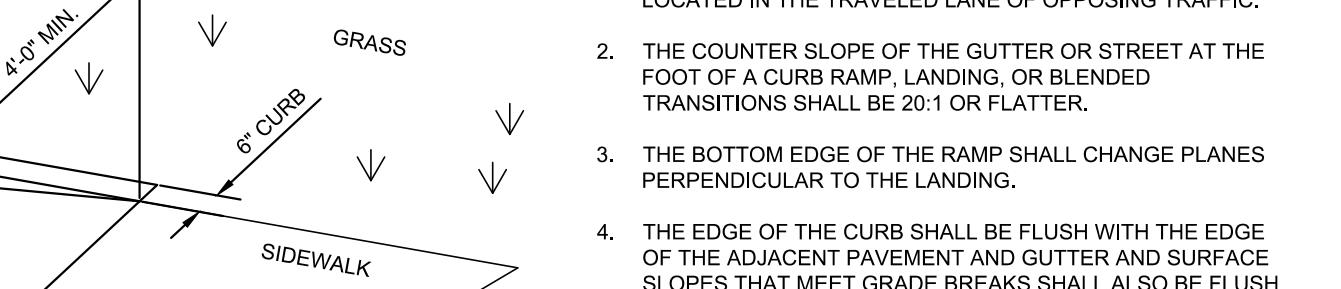
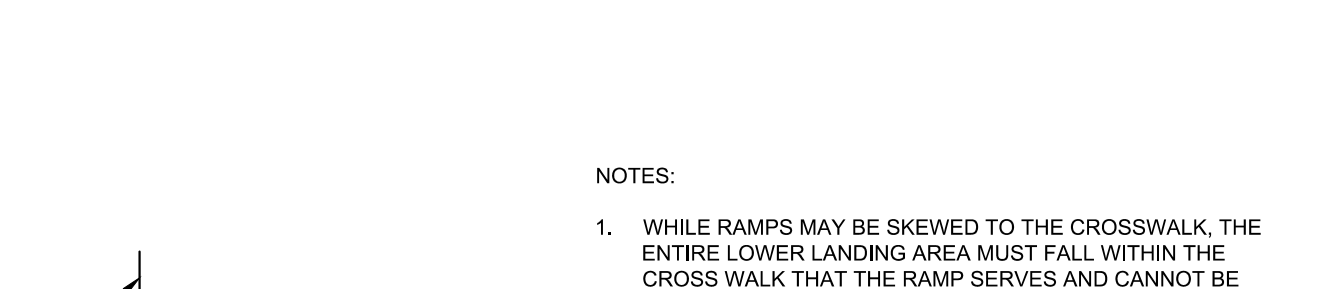
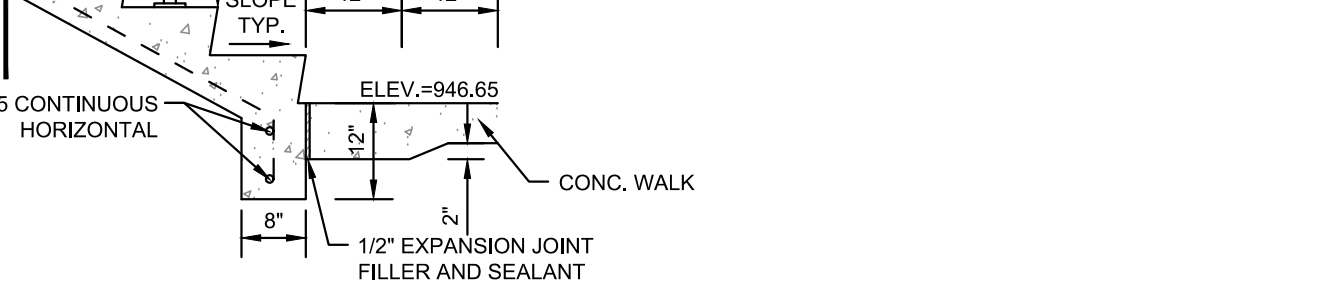
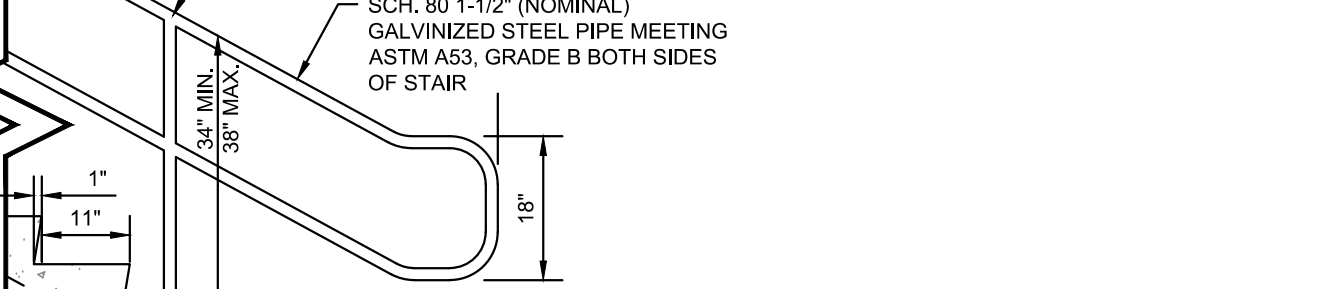
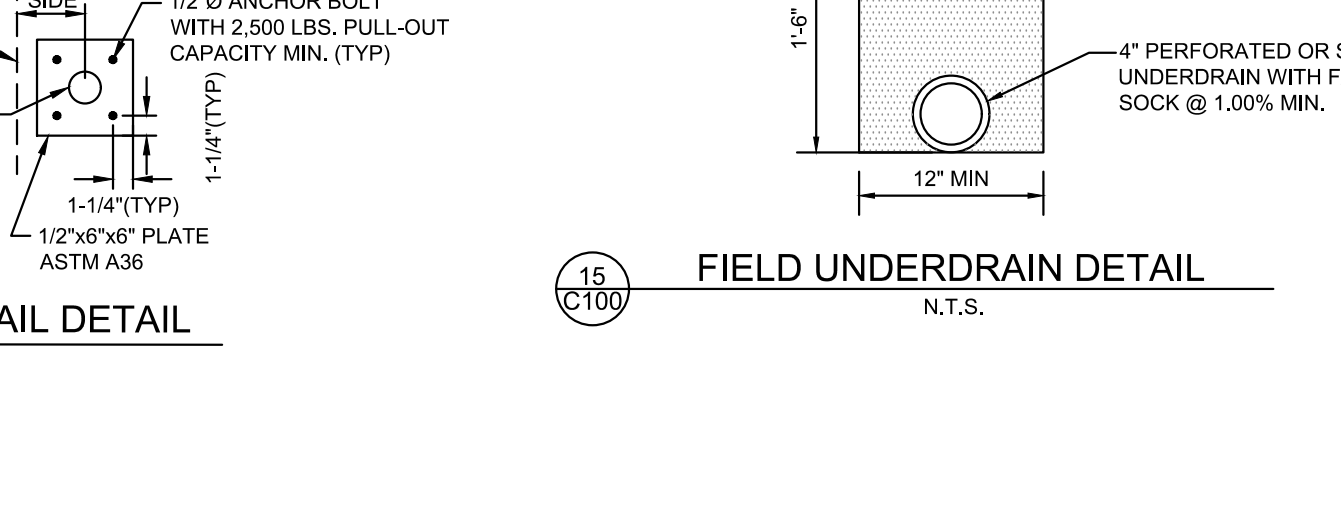
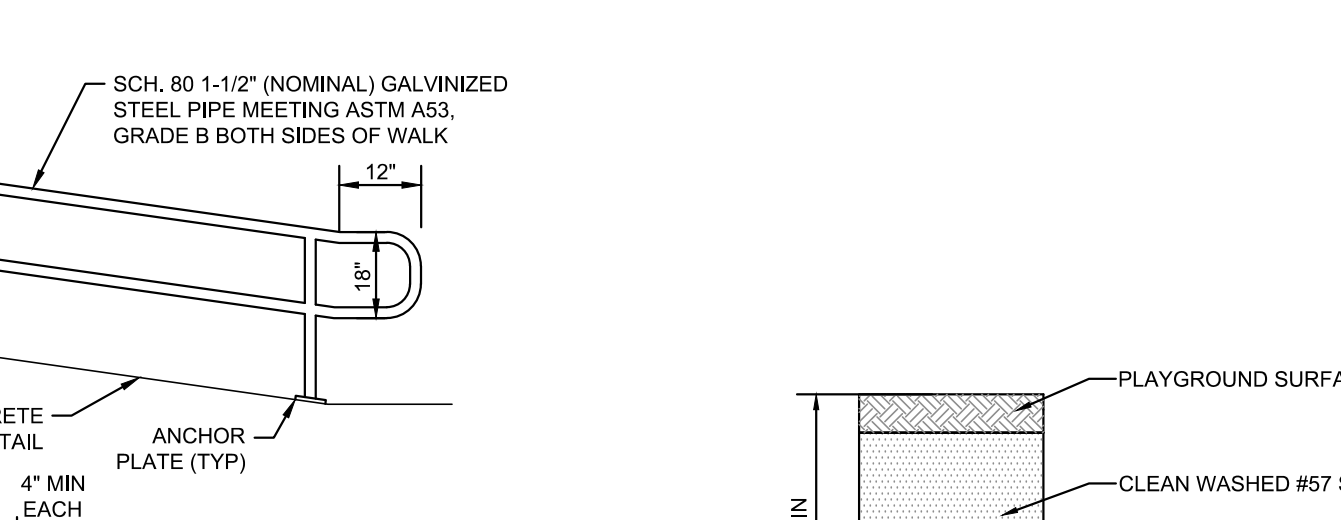
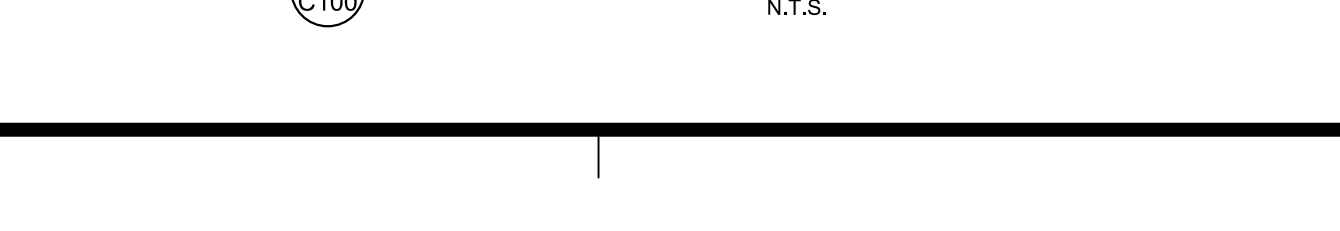
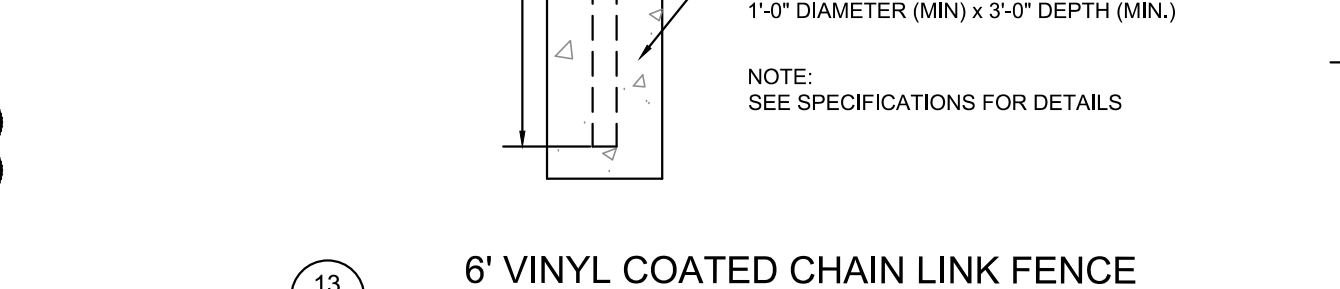
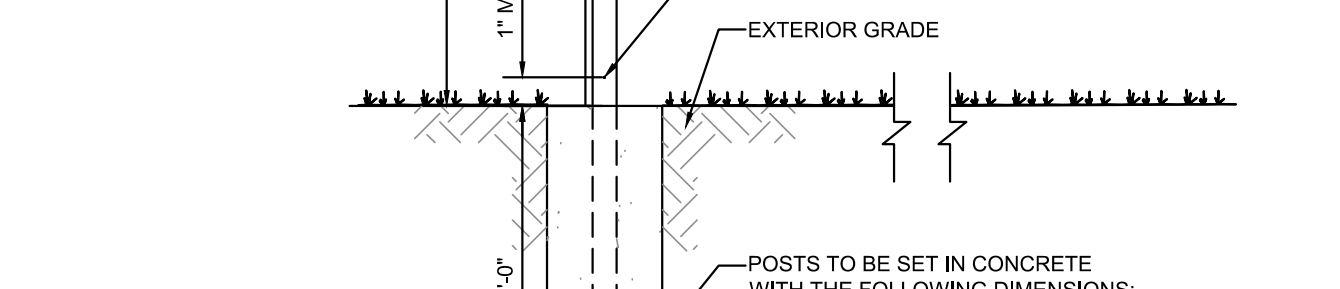
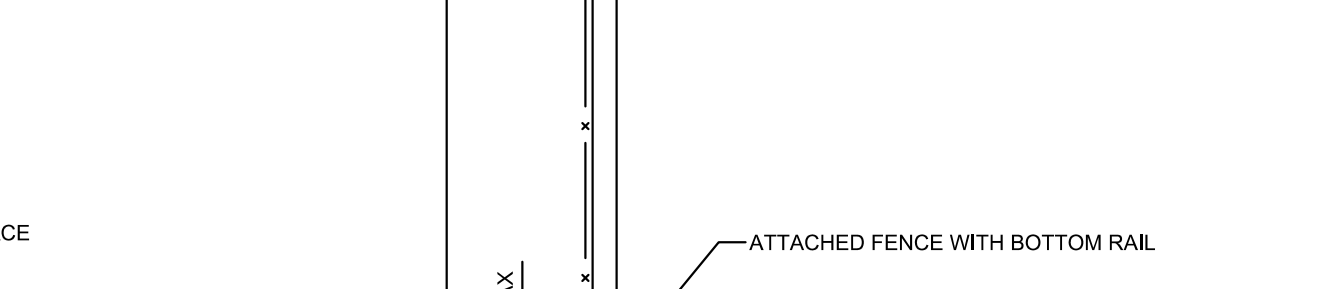
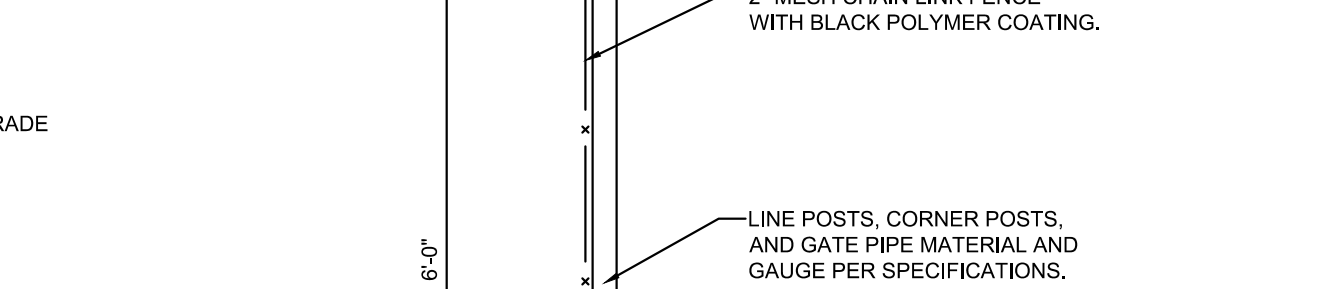
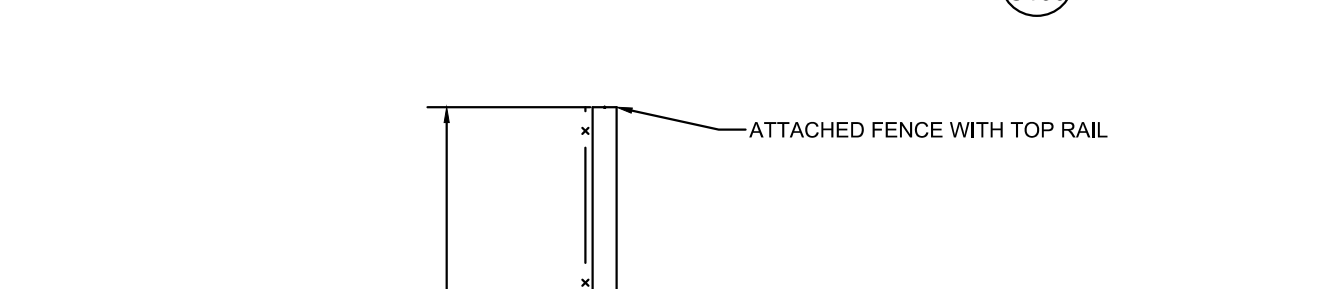
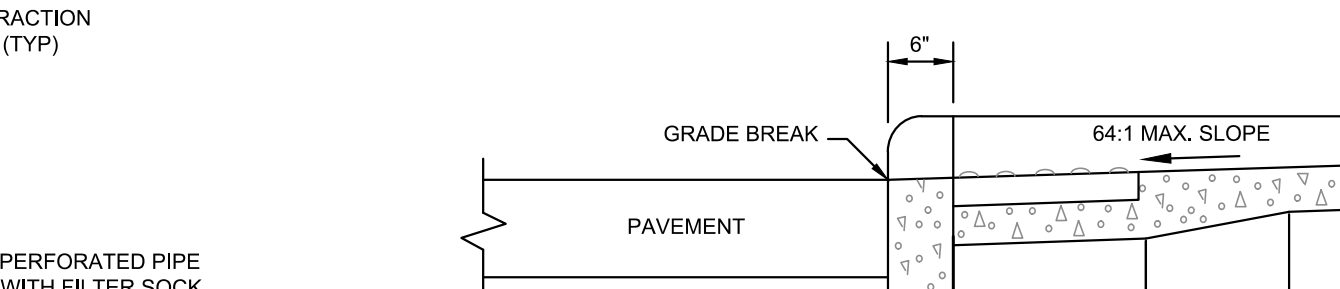
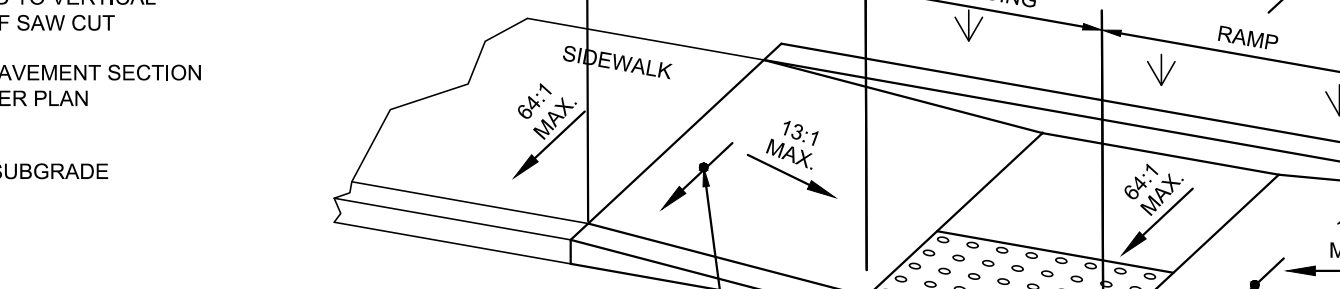
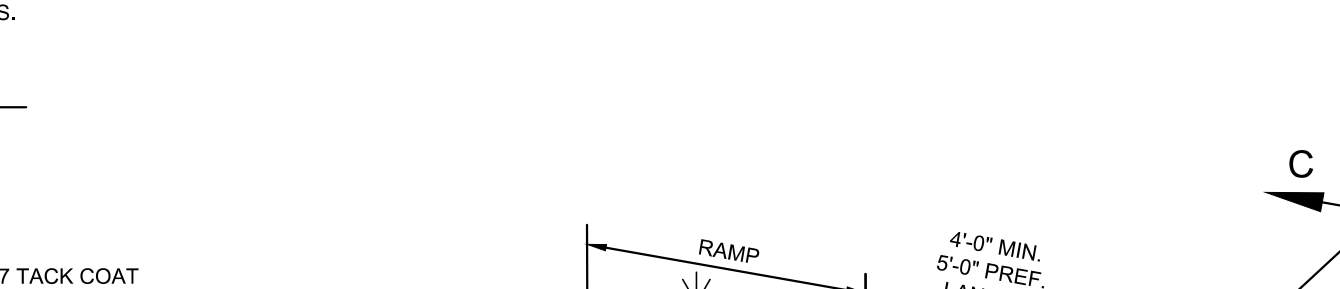
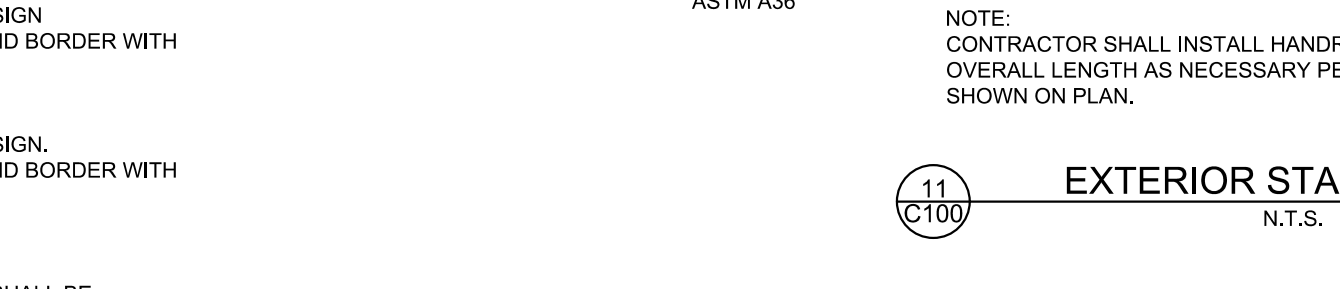
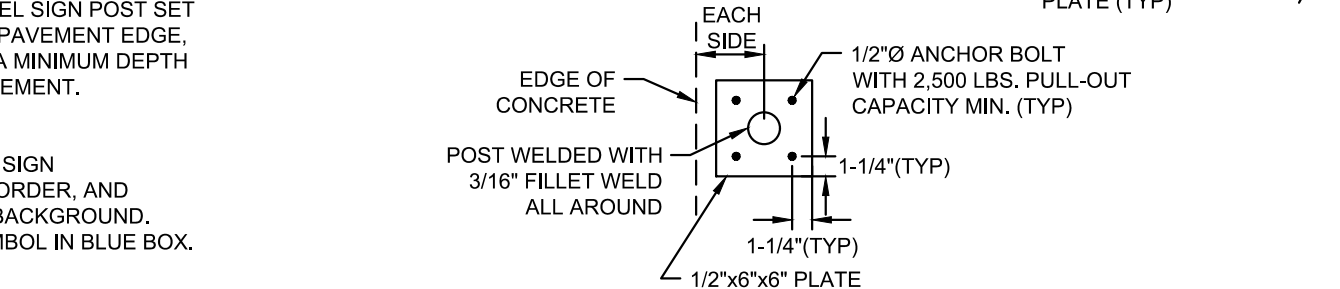
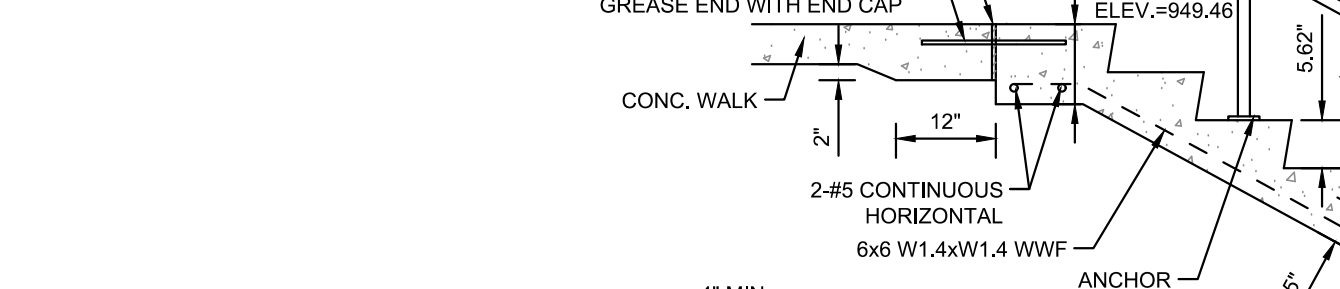
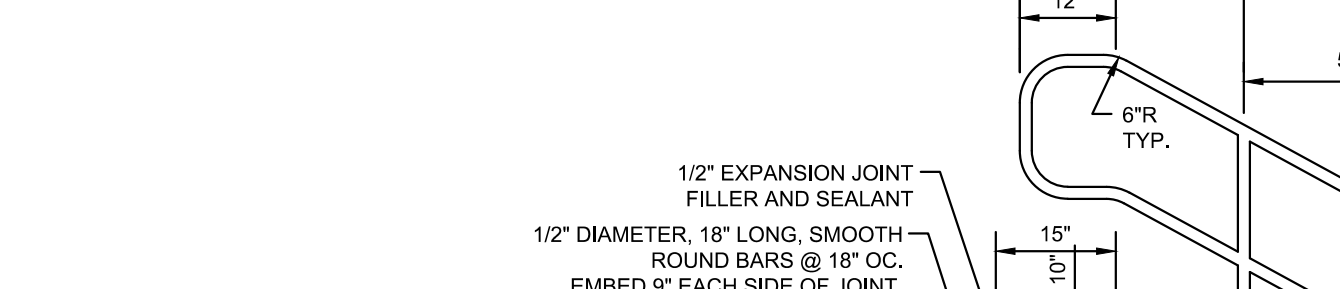
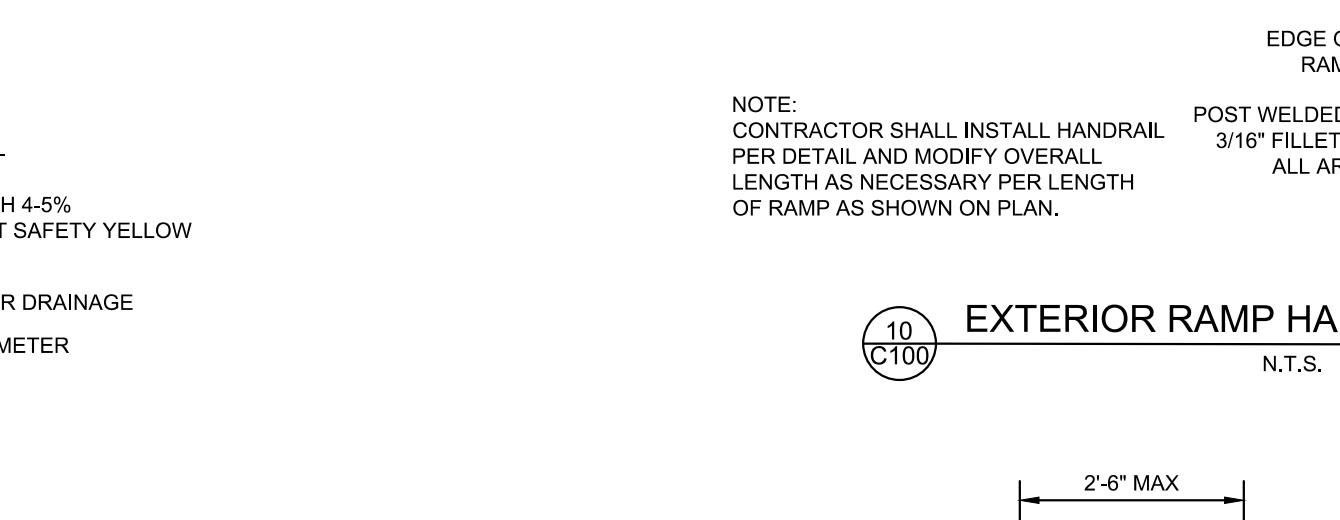
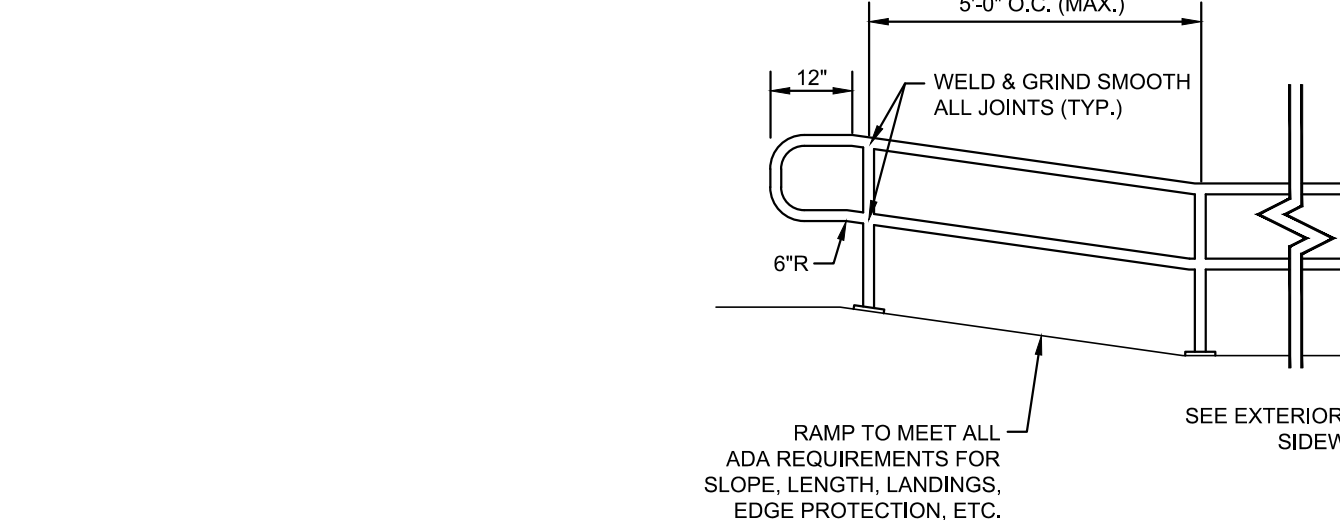
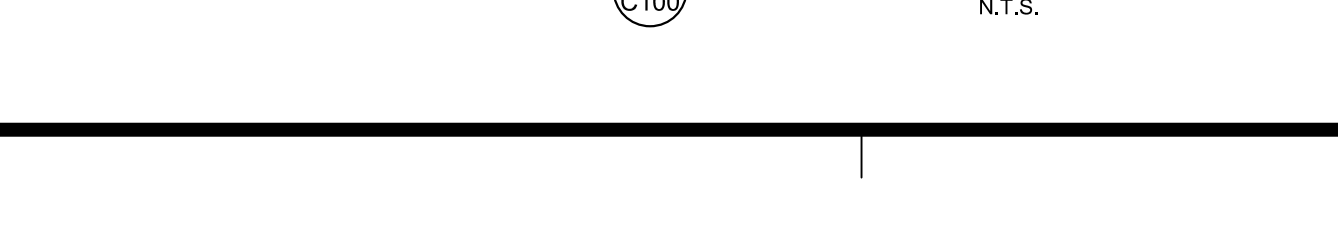
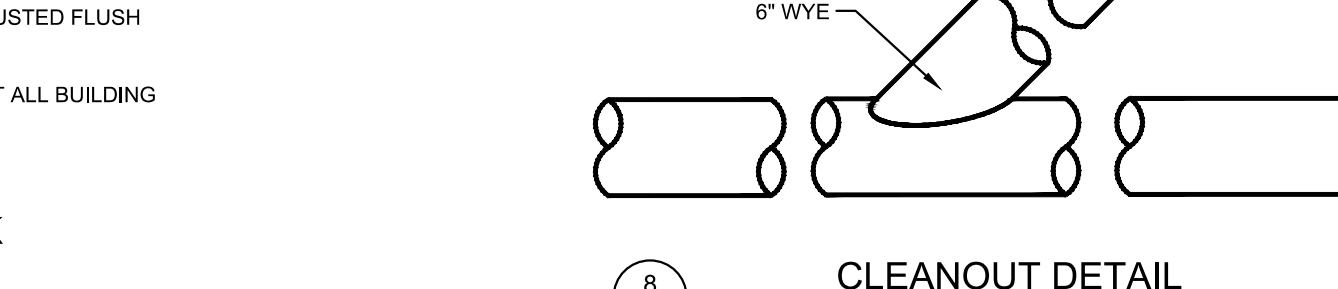
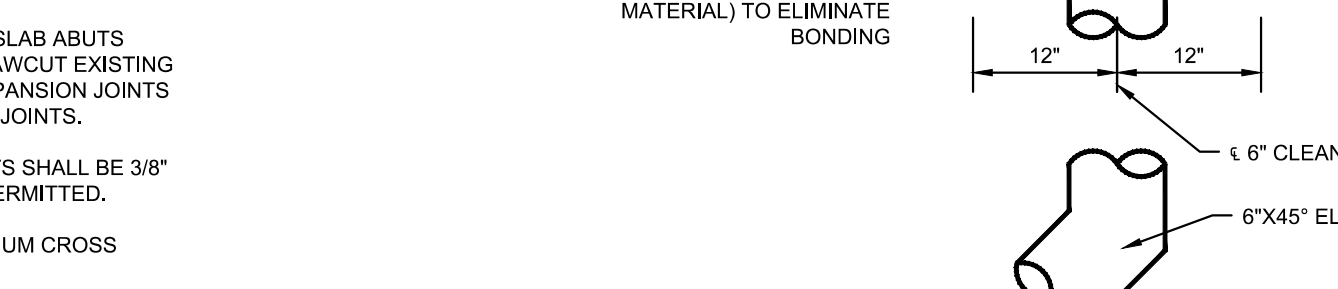
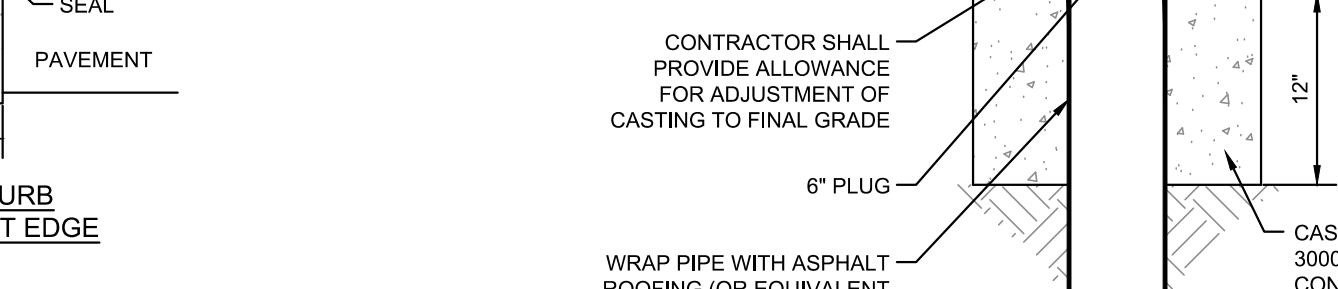
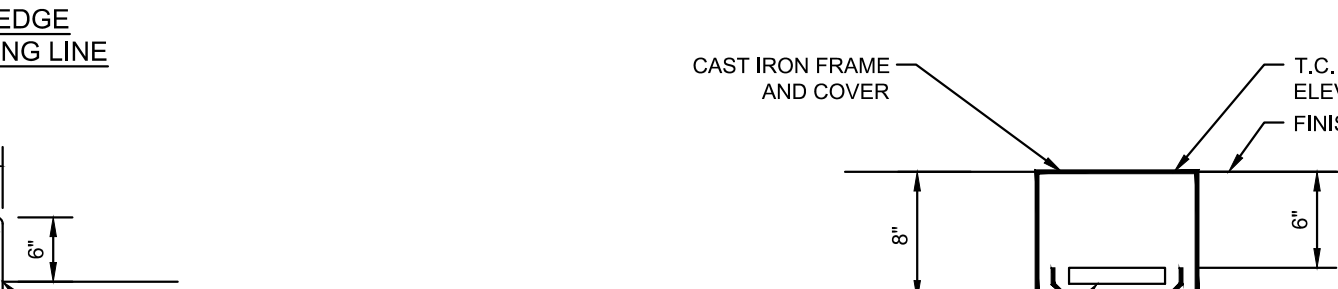
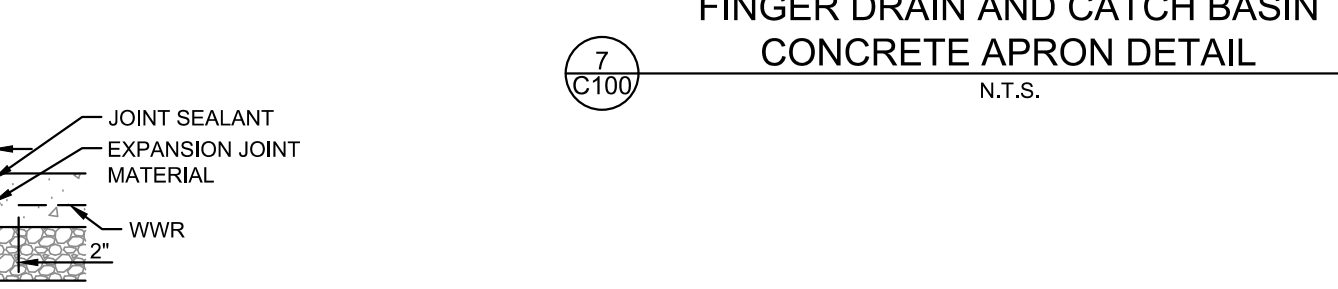
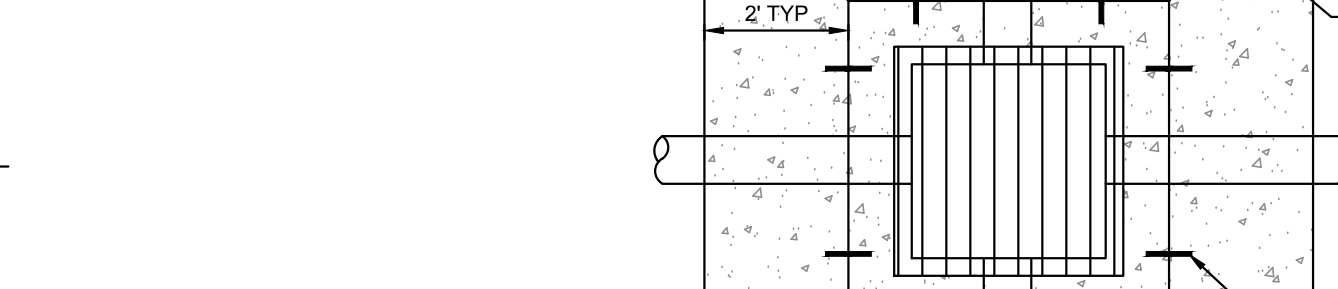
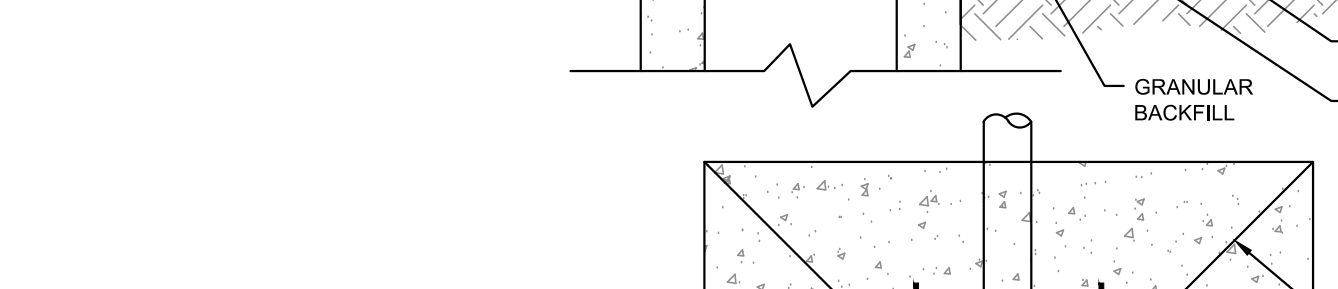
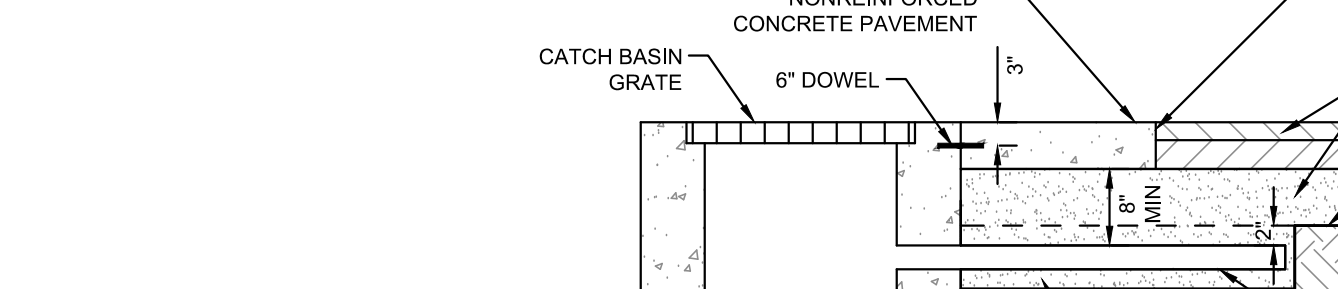
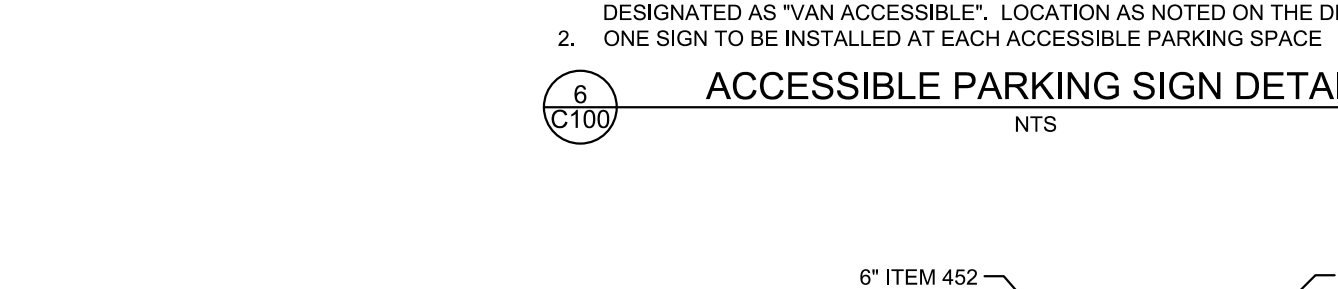
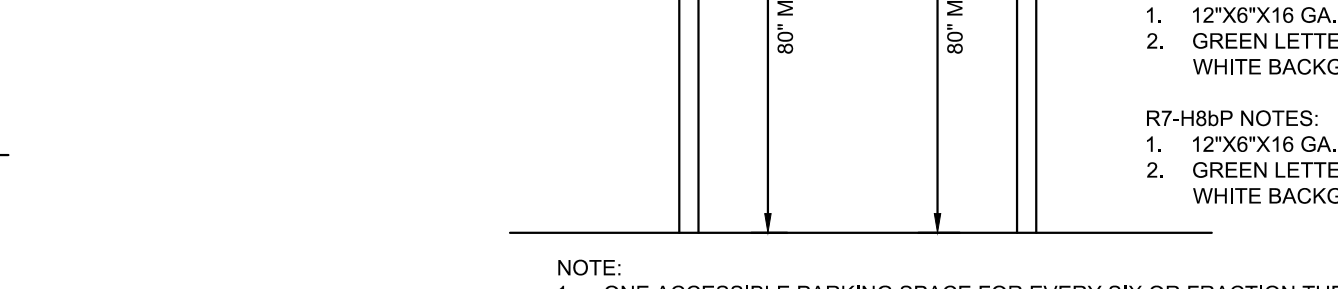
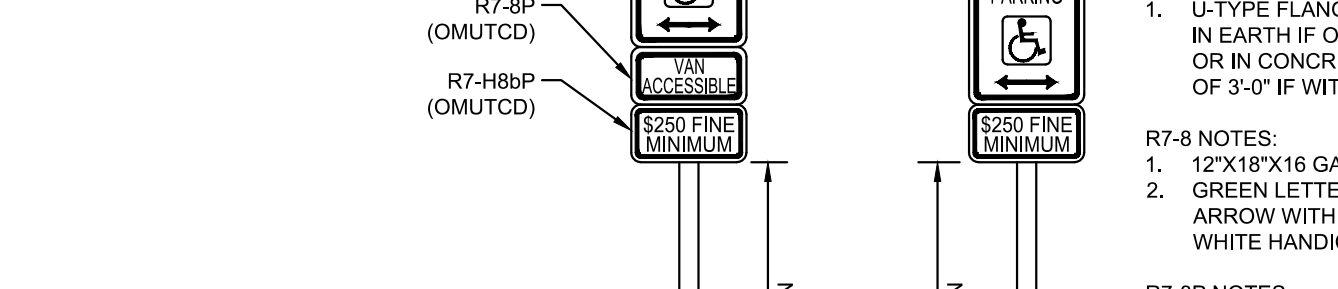
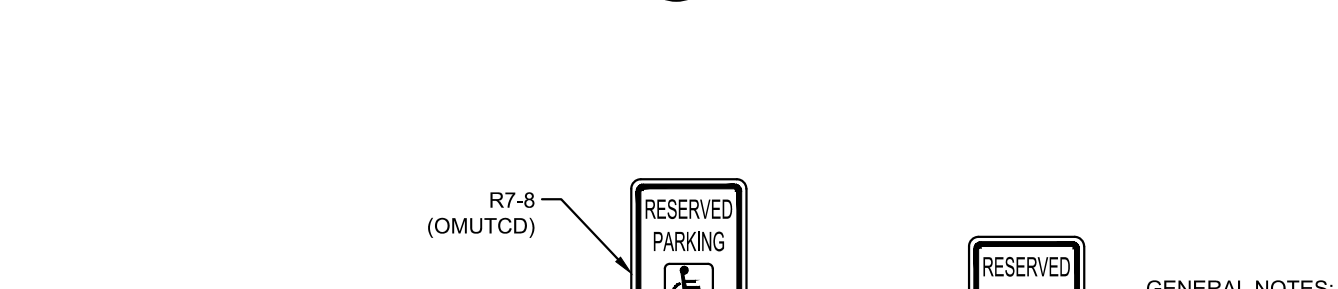
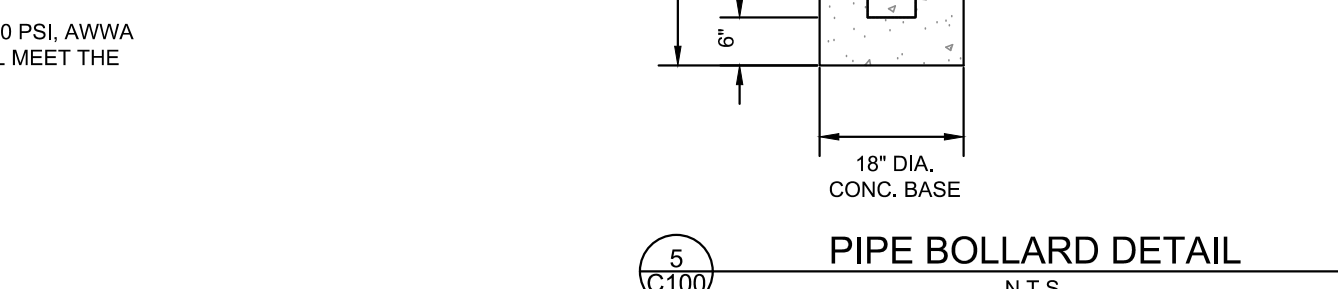
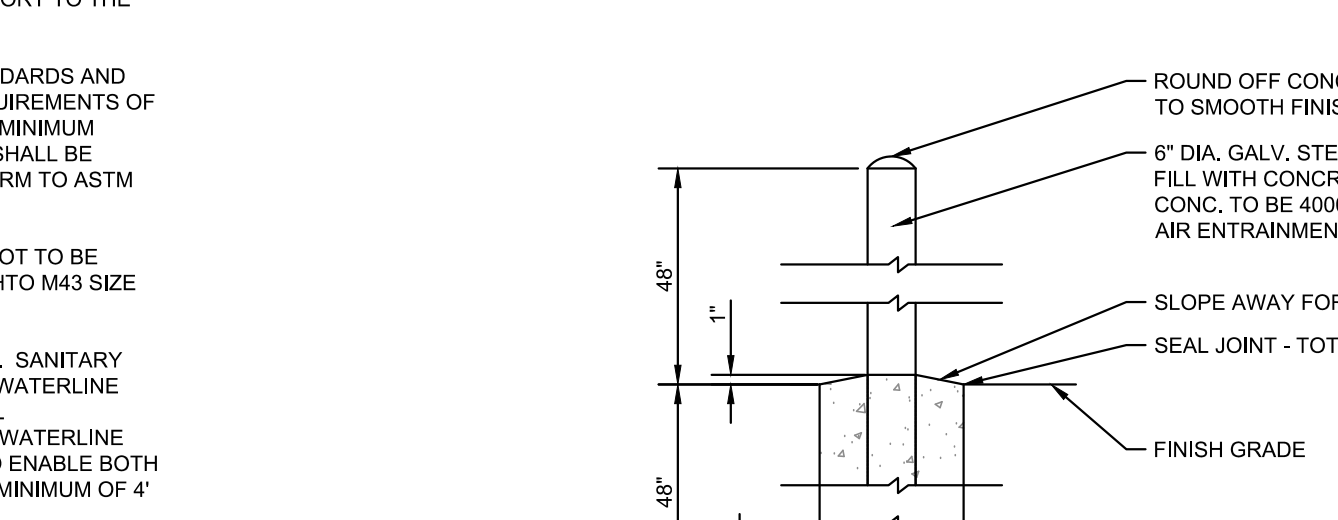
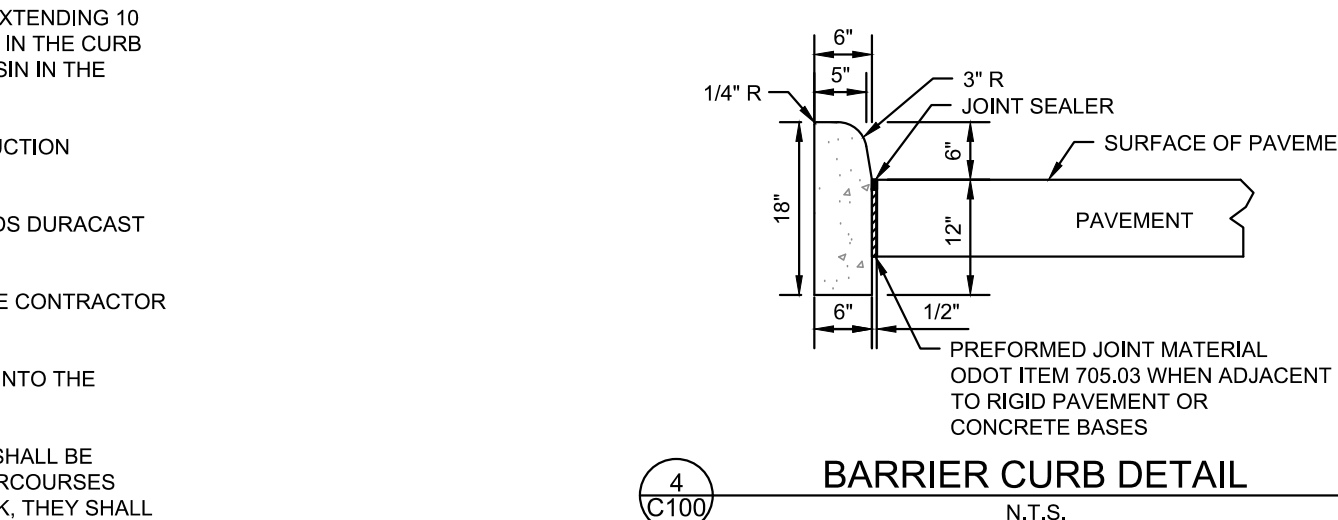
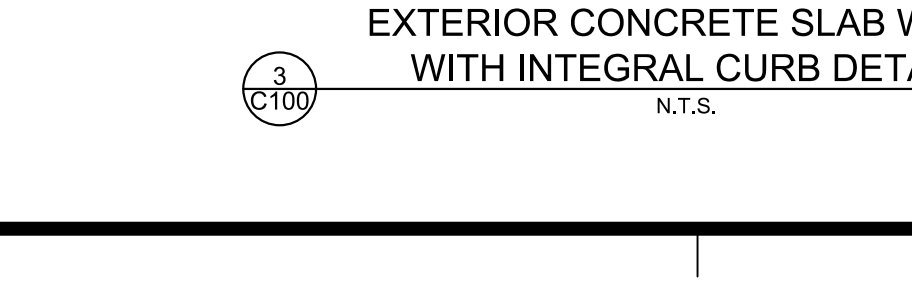
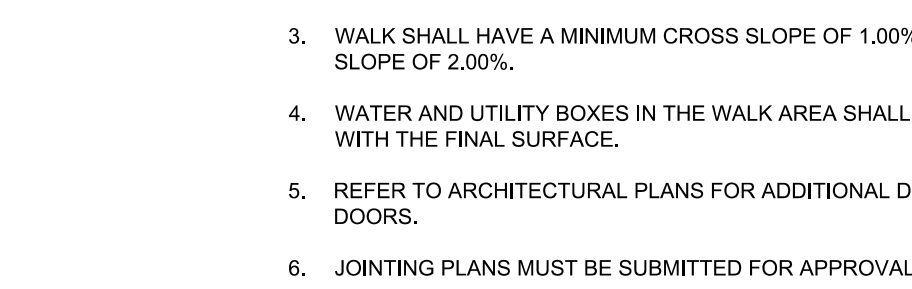
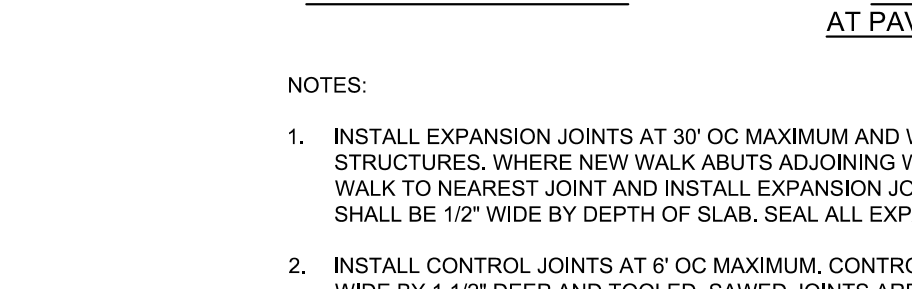
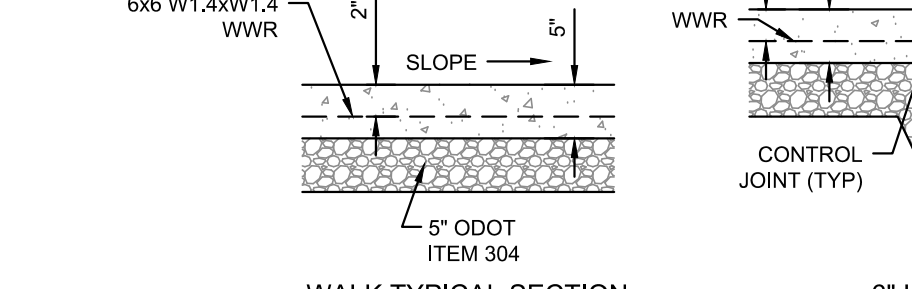
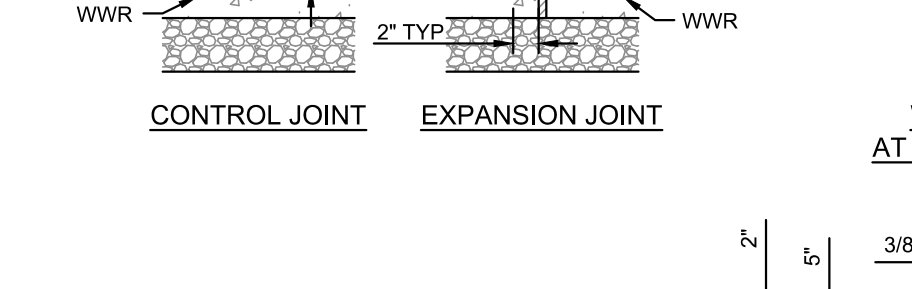
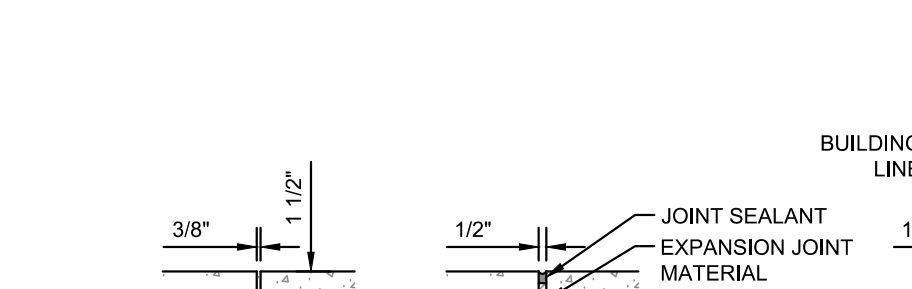
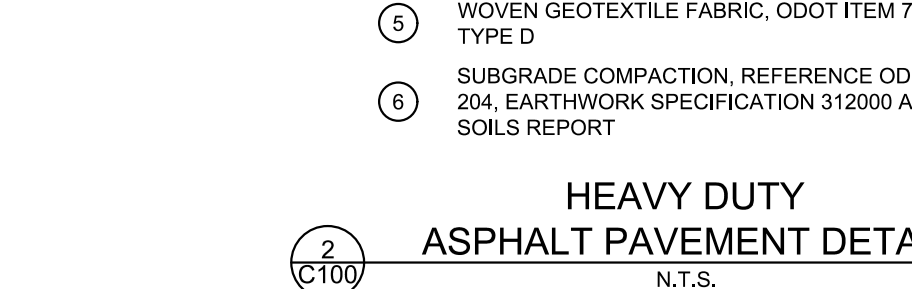
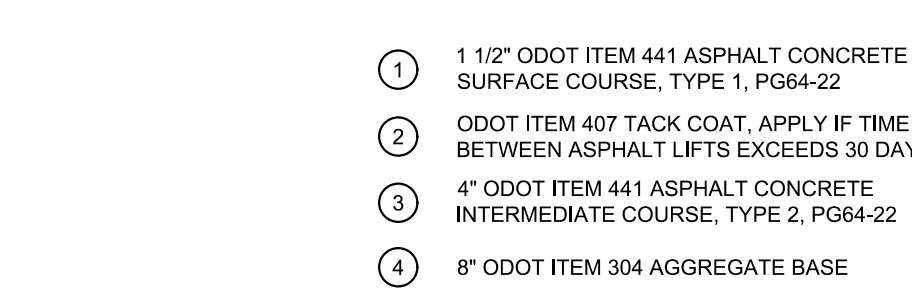
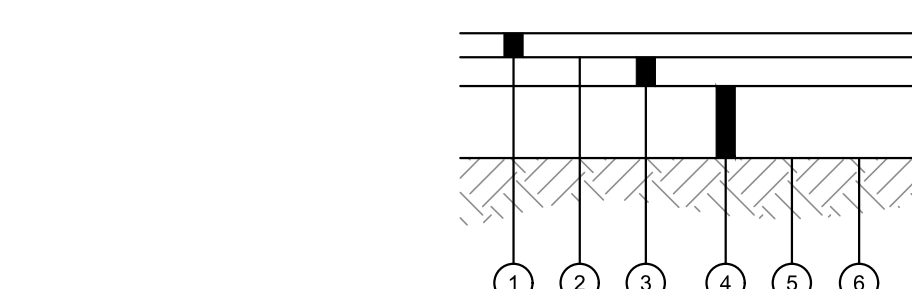
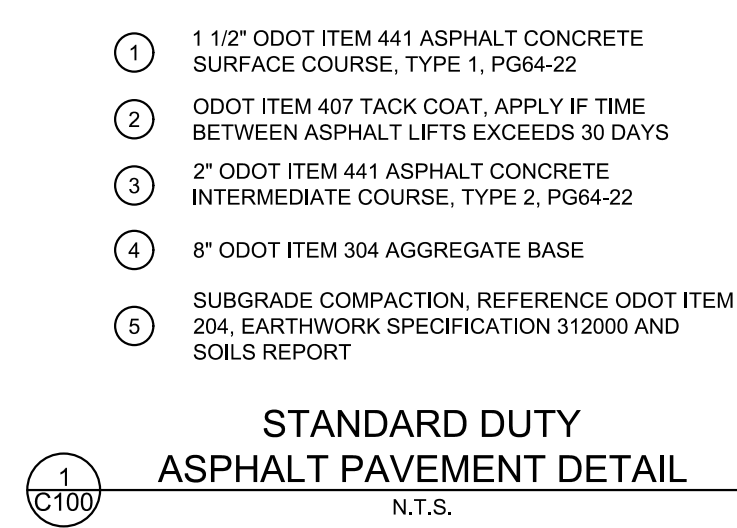
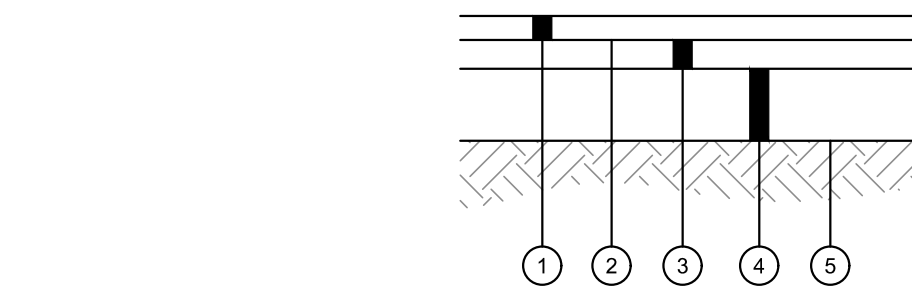
GRADING NOTES

- 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 GRADINGS.
- 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 GRADIENT AS EXISTING. THE DRAIN TILE AND/OR STORM SEWER SHALL BE CONNECTED TO THE CURB SUBDRAIN, STORM SEWER SYSTEM OR OUTLETTED INTO THE ROADWAY DITCH AS APPLICABLE. REPLACED DRAIN TILE STORM SEWER SHALL BE LAD 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 (N40-013) 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 & 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 12" 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, DR 14, PRESSURE CLASS 305 PSI. FIRE SERVICE PIPING SHALL MEET THE REQUIREMENTS OF NFPA 24.



**WARREN COUNTY
CAREER CENTER
MEDICAL ACADEMY**

3525 OH-46, Lebanon, OH 45036

**LEVIN PORTER
ARCHITECTS**

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www.levin-porter.com

PROJECT NO: **#263306.00**

CHECKED BY: **J. SHAW**

DRAWN BY: **K. LAGRANGE**

DATE: **09/12/2026**

GENERAL NOTES & DETAILS

C100

REVISIONS:

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	09/12/2026

PRINTINGS:

NO.	DESCRIPTION	DATE
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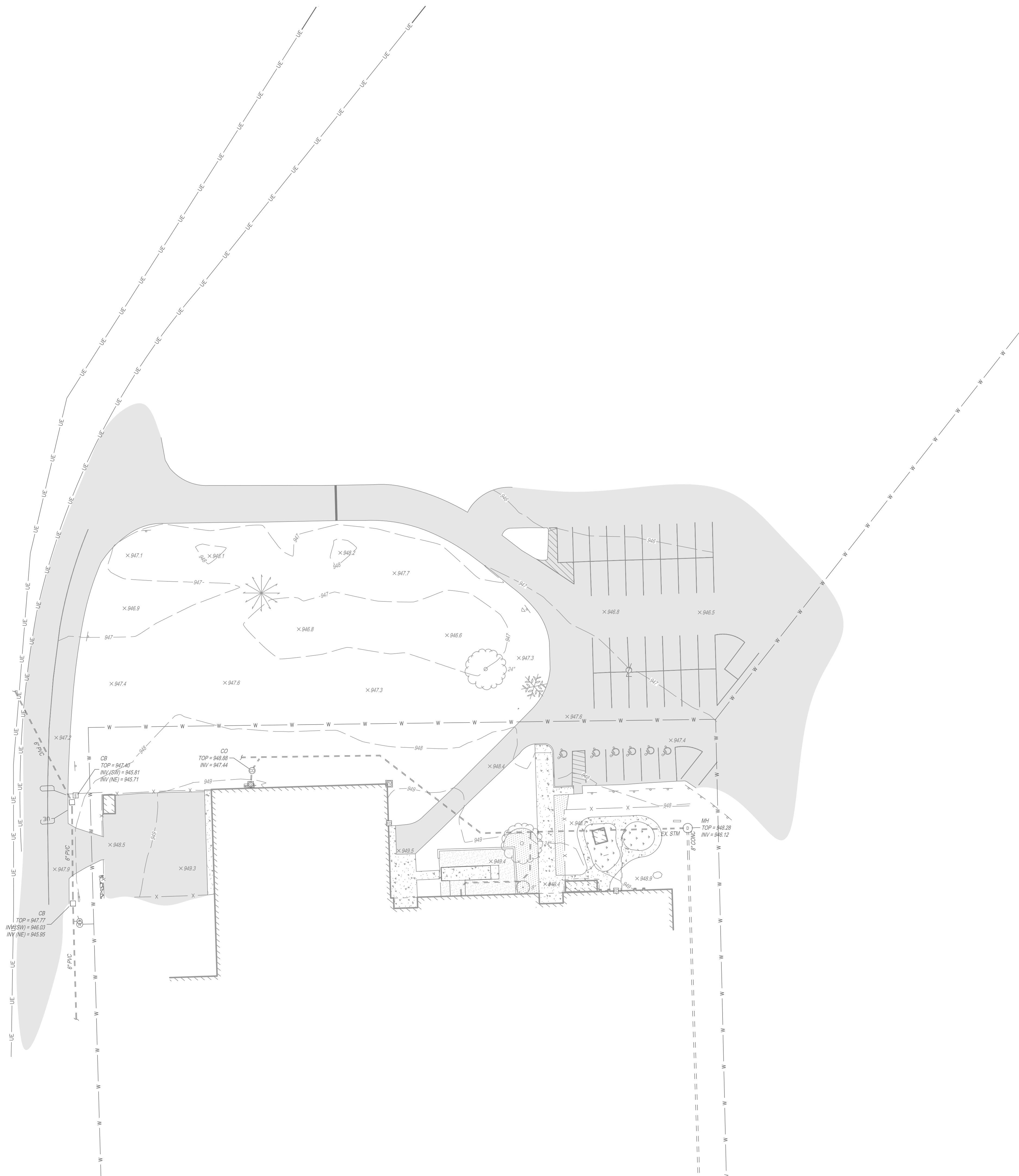
THE KLEINGERS GROUP

11317 191st

STATE OF OHIO
JOSHUA P. SHAW
E-78397
PROFESSIONAL ENGINEER

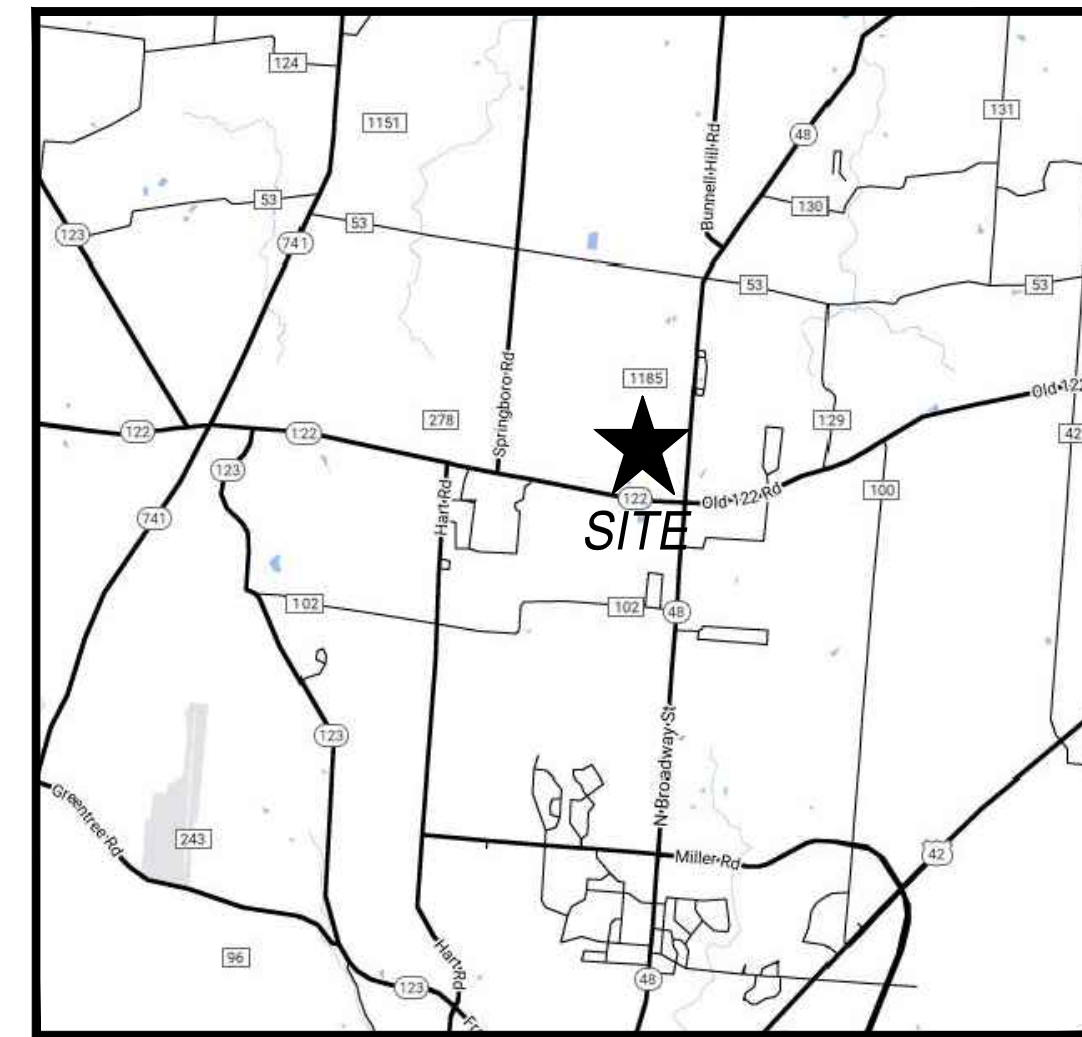


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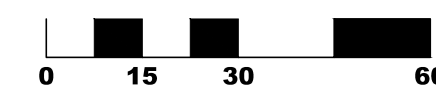
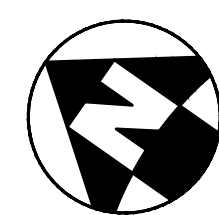
NOTES:

1. DISTANCE UNITS ARE BASED ON THE US SURVEY FOOT DEFINITION (1' = 1200/3937 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
	CLEANOUT
	CATCH BASIN
	ELECTRIC BOX
	ELECTRIC OUTLET
	LIGHT POLE
	CABLE BOX
	GAS METER
	FIRE HYDRANT
	WATER VALVE
	SINGLE POST SIGN
	HANDICAP
	FENCE LINE
	WATER LINE
	GAS LINE
	UNDERGROUND ELECTRIC
	STORM SEWER
	SANITARY SEWER
	DECIDUOUS TREE
	CONIFEROUS TREE
	BUSH
	ASPHALT
	CONCRETE
	GRAVEL
	LANDSCAPE
	ARTIFICIAL TURF
	RIP RAP



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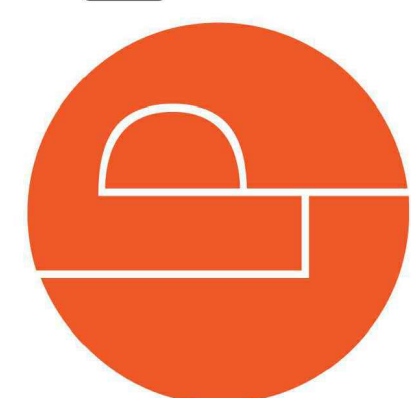


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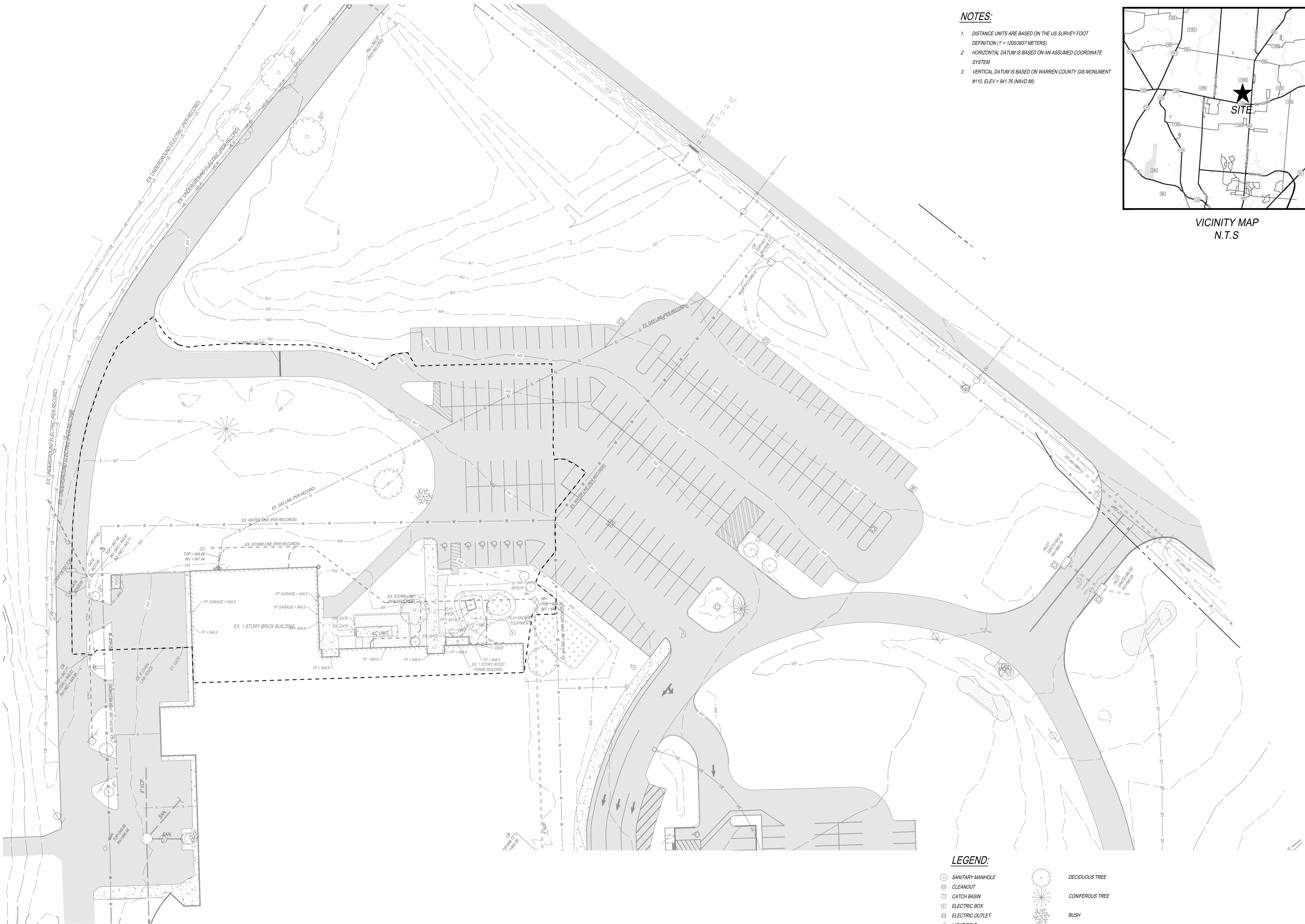
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PROJECT #263306.00
CHECKED BY:
J. SHAW
DRAWN BY:
K. LAGRANGE
DATE:
09.15.2026

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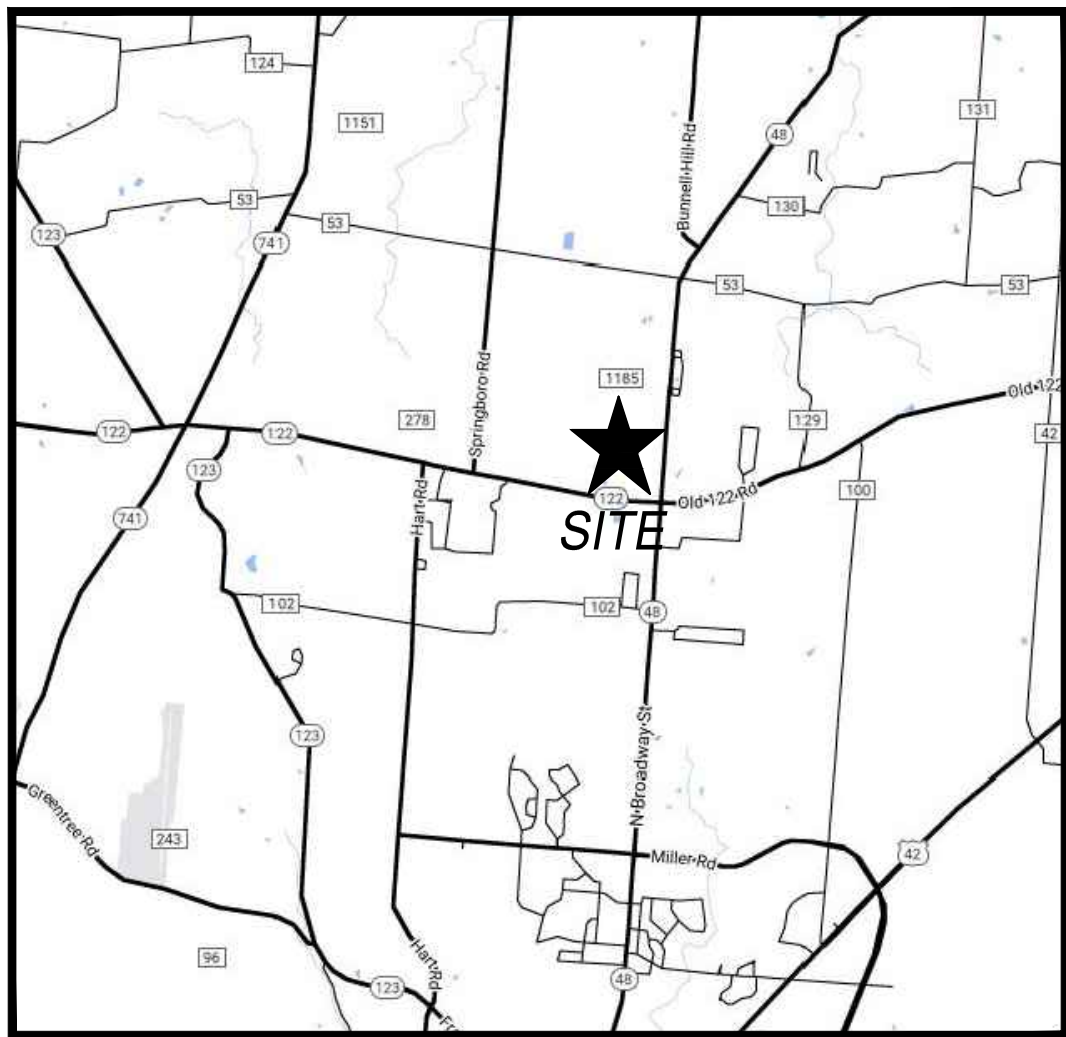
SURVEY BASEMAP

C110



NOTES:

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VICINITY MAP
N.T.S.

LEGEND:

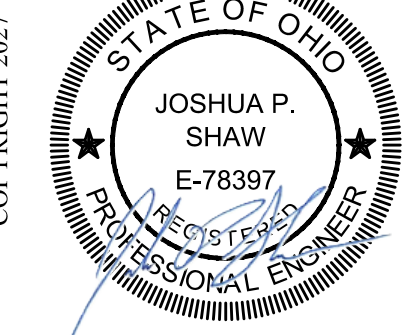
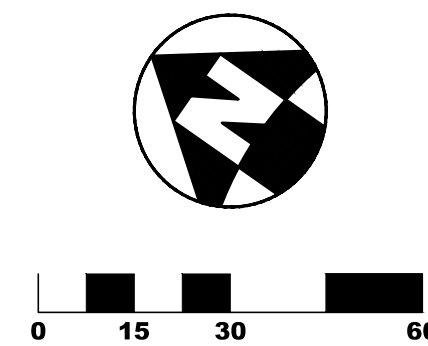
- | | | | |
|-------------|----------------------|---|-----------------|
| ○ | SANITARY MANHOLE | ○ | DECIDUOUS TREE |
| □ | CLEANOUT | ✱ | CONIFEROUS TREE |
| □ | CATCH BASIN | ✱ | BUSH |
| □ | ELECTRIC BOX | ■ | ASPHALT |
| □ | ELECTRIC OUTLET | ■ | CONCRETE |
| ○ | LIGHT POLE | ■ | GRAVEL |
| ○ | CABLE BOX | ■ | LANDSCAPE |
| ○ | GAS METER | ■ | ARTIFICIAL TURF |
| ○ | FIRE HYDRANT | ■ | RIP RAP |
| ○ | WATER VALVE | | |
| ○ | SINGLE POST SIGN | | |
| ○ | HANDICAP | | |
| — X — X — | FENCE LINE | | |
| — W — W — | WATER LINE | | |
| — G — G — | GAS LINE | | |
| — UE — UE — | UNDERGROUND ELECTRIC | | |
| — — — — — | STORM SEWER | | |
| — — — — — | SANITARY SEWER | | |

NOTE:

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



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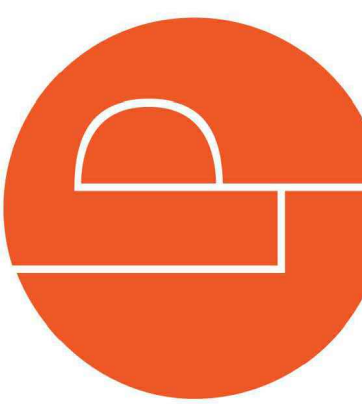
**WARREN COUNTY
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3525 OH-48, Lebanon, OH 45036



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CHECKED BY: J. SHAW
DRAWN BY: K. LAGRANGE
DATE: 09/15/2026

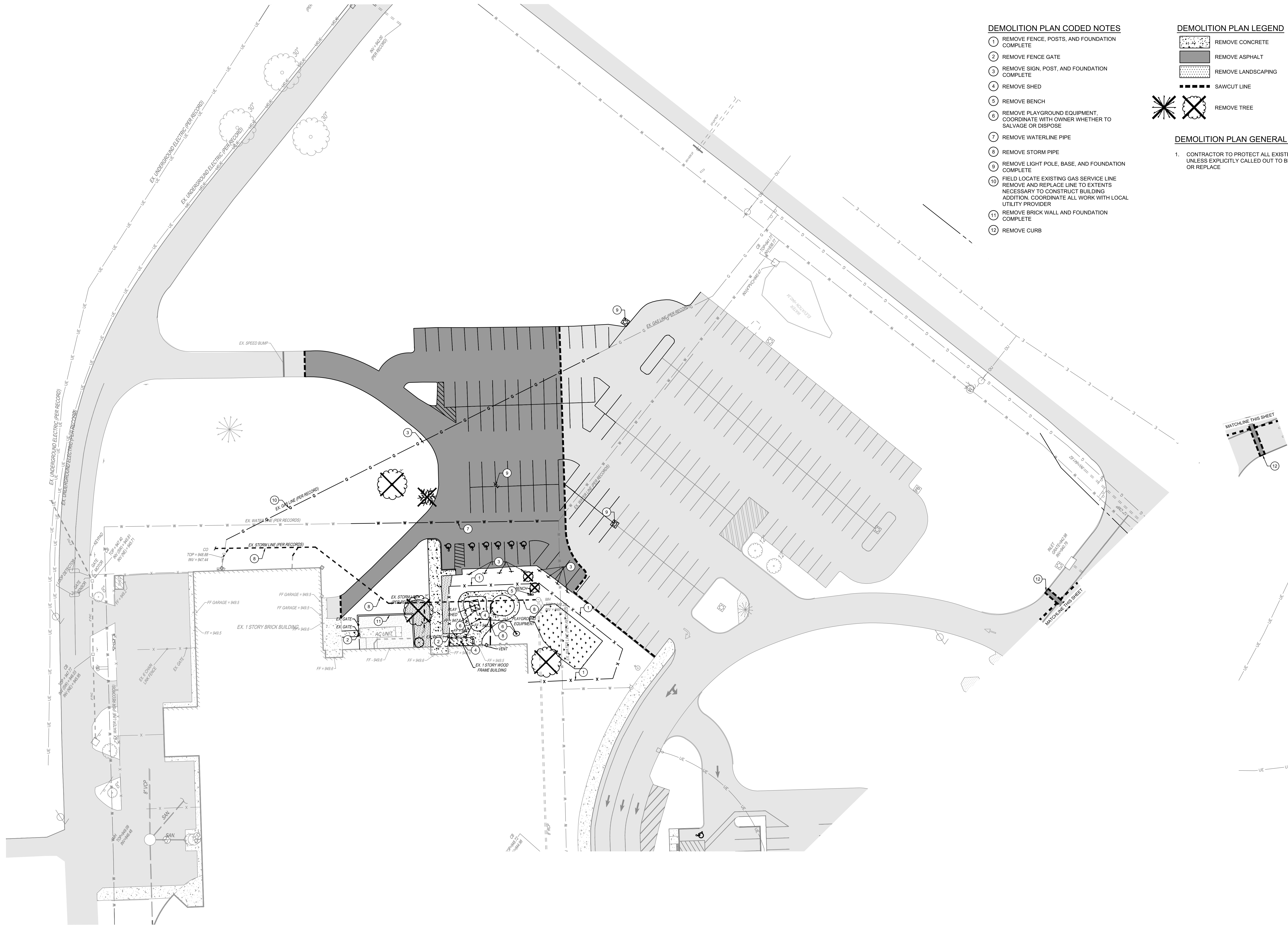
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SUPPLEMENTAL
SURVEY BASEMAP
C111



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DEMOLITION PLAN CODED NOTES

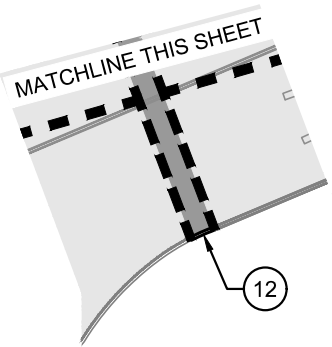
- 1 REMOVE FENCE, POSTS, AND FOUNDATION COMPLETE
- 2 REMOVE FENCE GATE
- 3 REMOVE SIGN, POST, AND FOUNDATION COMPLETE
- 4 REMOVE SHED
- 5 REMOVE BENCH
- 6 REMOVE PLAYGROUND EQUIPMENT. COORDINATE WITH OWNER WHETHER TO SALVAGE OR DISPOSE
- 7 REMOVE WATERLINE PIPE
- 8 REMOVE STORM PIPE
- 9 REMOVE LIGHT POLE, BASE, AND FOUNDATION COMPLETE
- 10 FIELD LOCATE EXISTING GAS SERVICE LINE. REMOVE AND REPLACE LINE TO EXTENTS NECESSARY TO CONSTRUCT BUILDING ADDITION. COORDINATE ALL WORK WITH LOCAL UTILITY PROVIDER
- 11 REMOVE BRICK WALL AND FOUNDATION COMPLETE
- 12 REMOVE CURB

DEMOLITION PLAN LEGEND

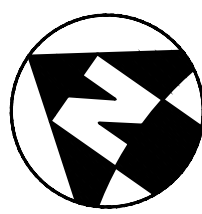
- REMOVE CONCRETE
- REMOVE ASPHALT
- REMOVE LANDSCAPING
- SAWCUT LINE
- REMOVE TREE

DEMOLITION PLAN GENERAL NOTES

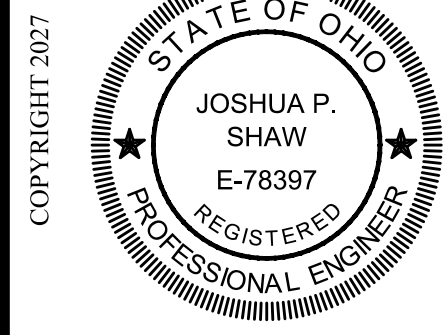
1. CONTRACTOR TO PROTECT ALL EXISTING UTILITIES UNLESS EXPLICITLY CALLED OUT TO BE REMOVED OR REPLACE



UE



0 15 30 60



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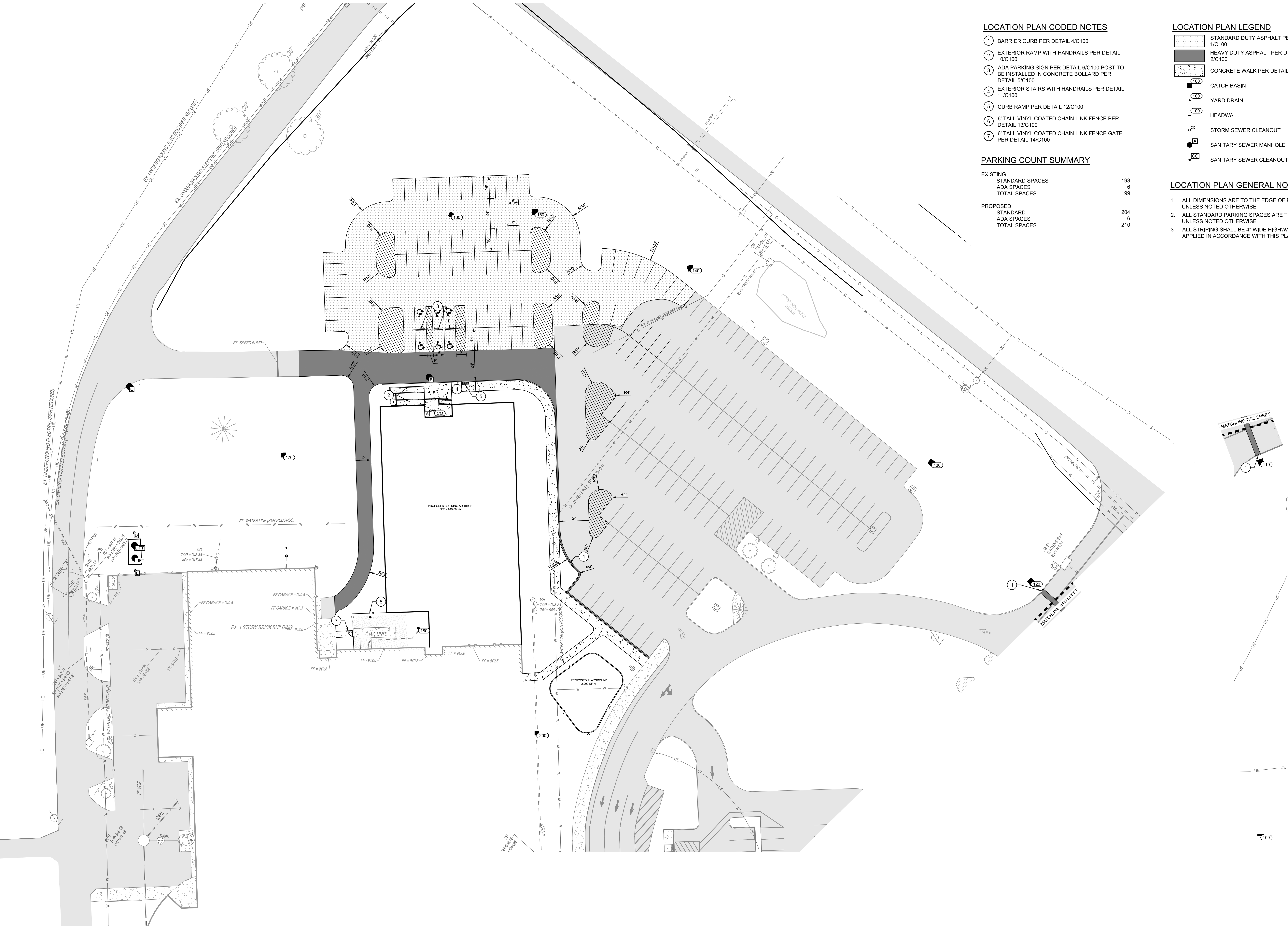
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DEMOLITION PLAN

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

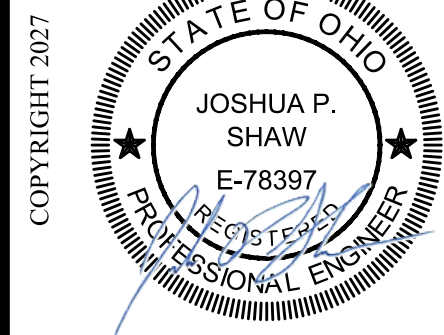
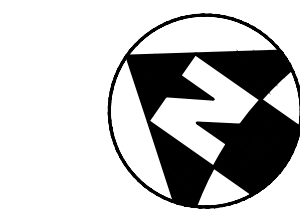
- STANDARD DUTY ASPHALT PER DETAIL 1/C100
- HEAVY DUTY ASPHALT PER DETAIL 2/C100
- CONCRETE WALK PER DETAIL 3/C100
- CATCH BASIN
- YARD DRAIN
- HEADWALL
- STORM SEWER CLEANOUT
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT

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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REVISIONS:	DATE	DESCRIPTION

PRINTINGS:	DATE	DESCRIPTION
Bld / Permit Set	09/12/2025	

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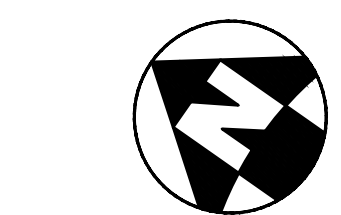
PROJECT NO:
PROJECT #263306.00
CHECKED BY:
J. SHAW
DRAWN BY:
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DATE:
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LOCATION PLAN

C130

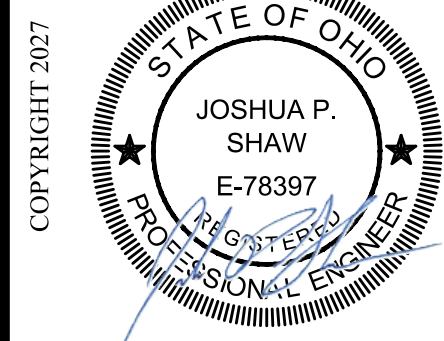
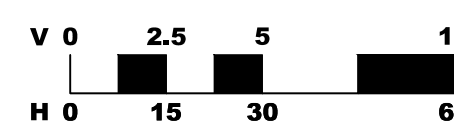
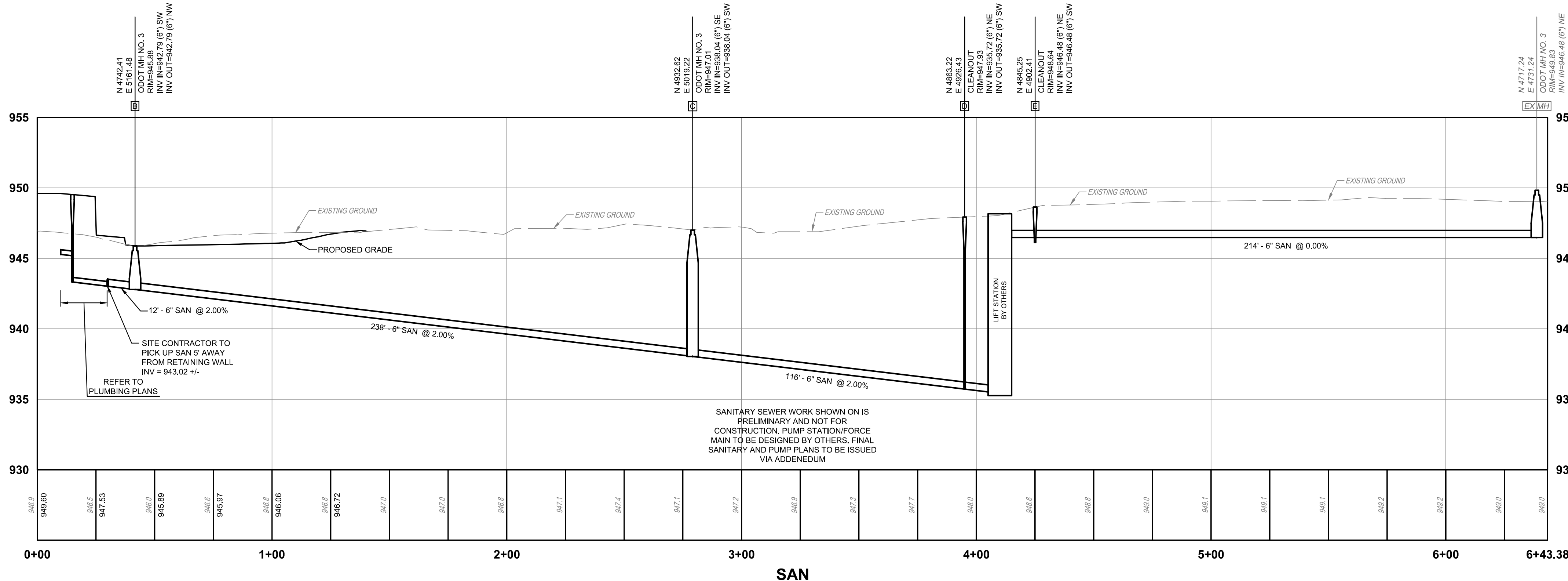
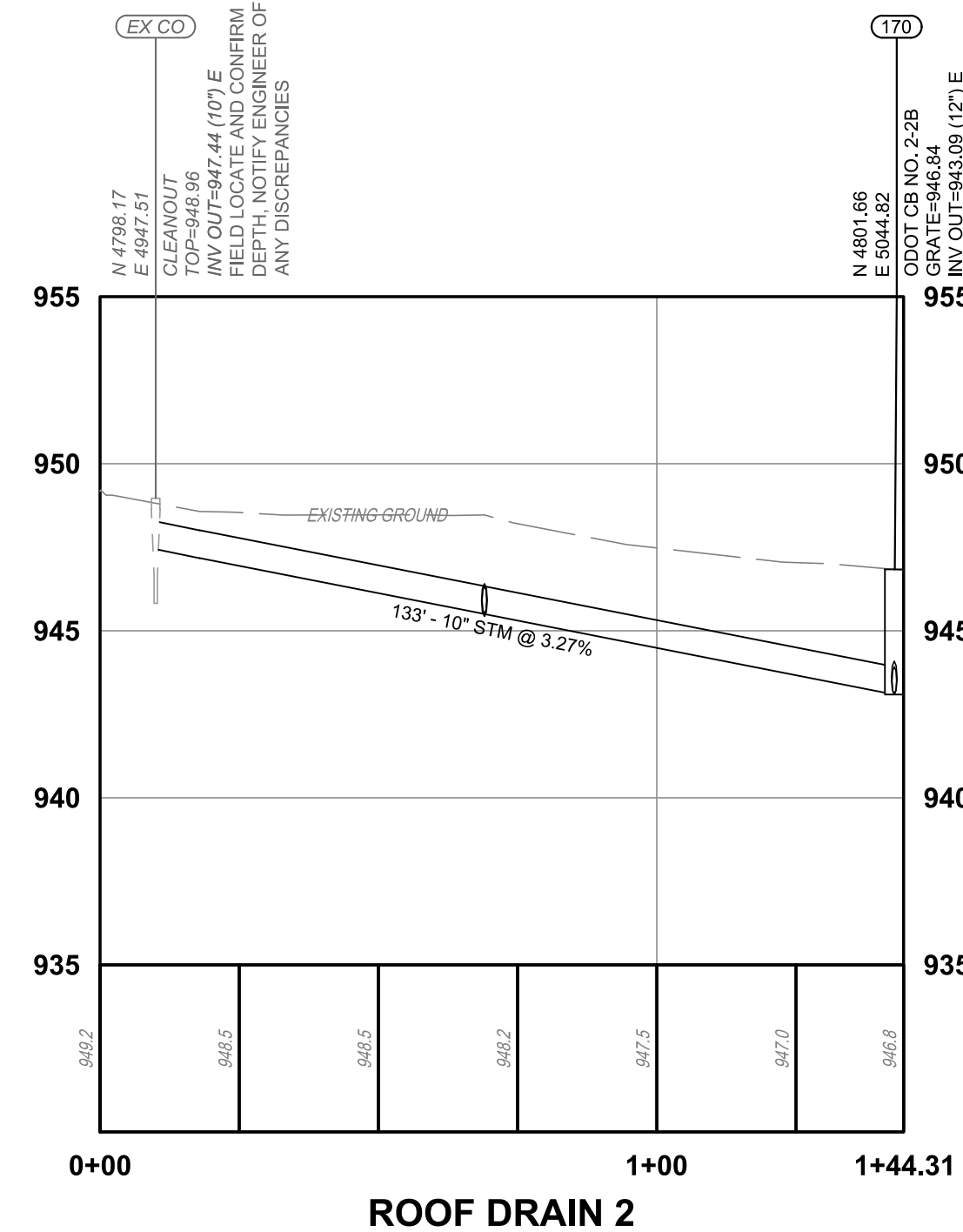
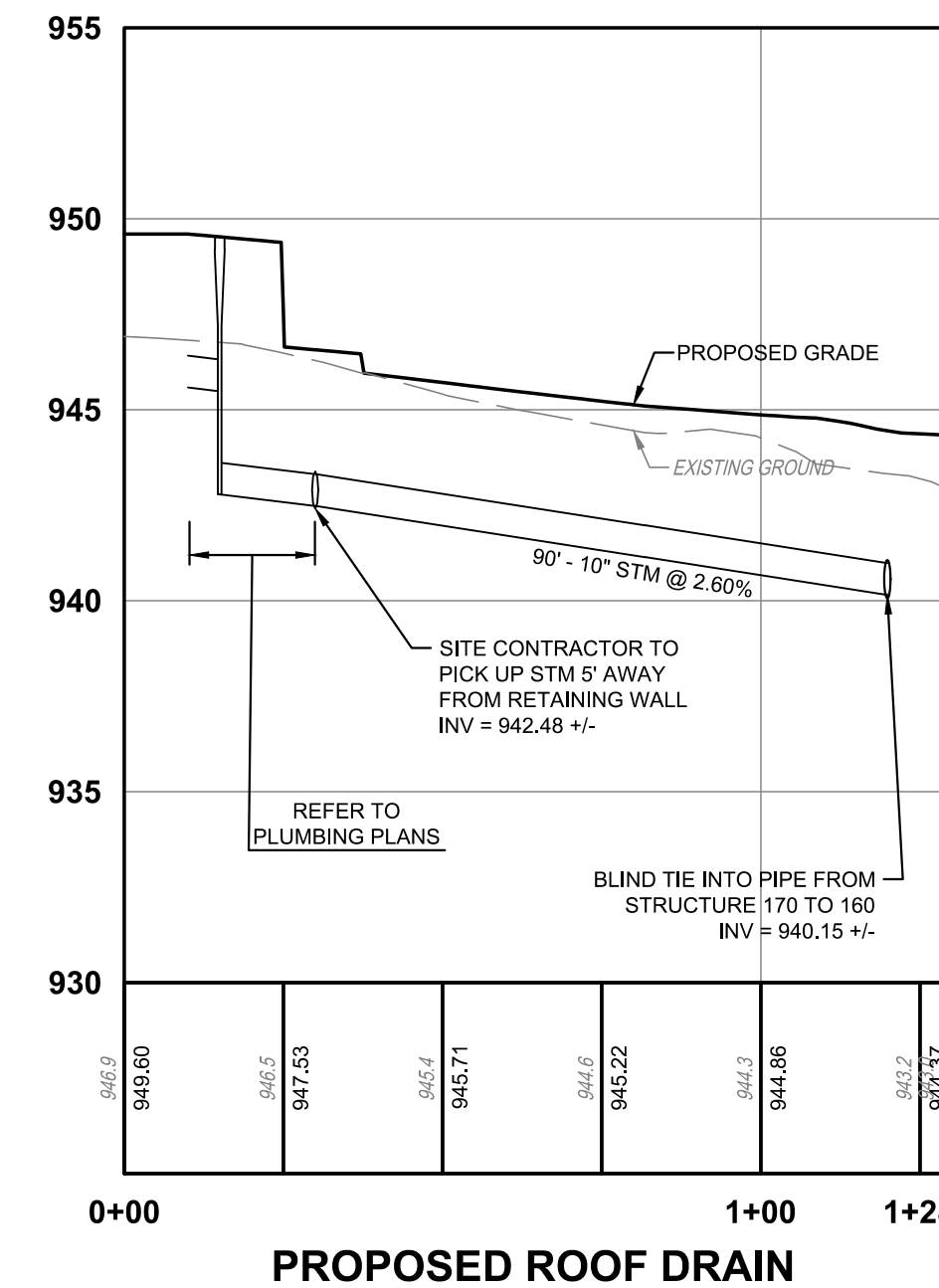
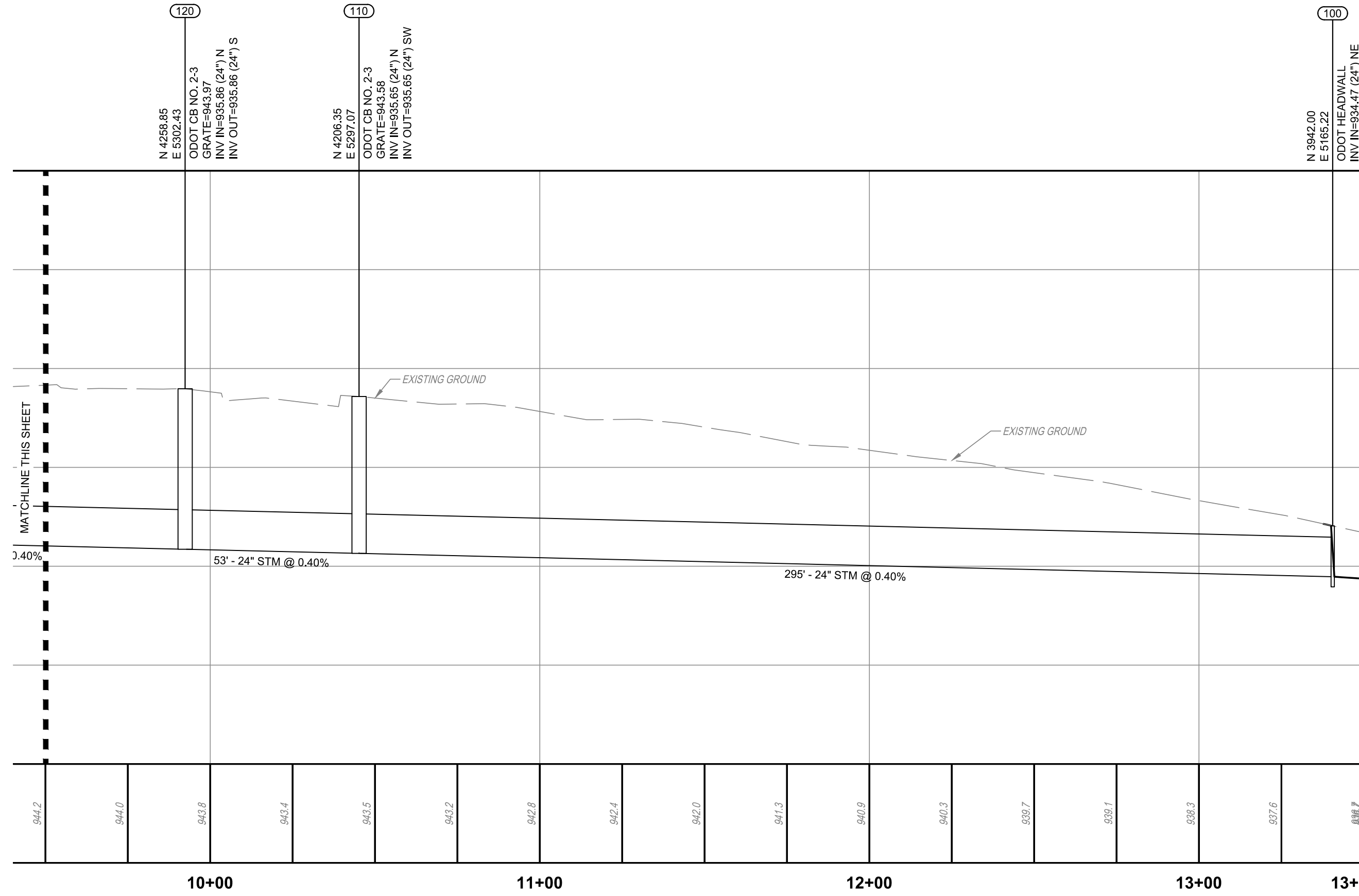
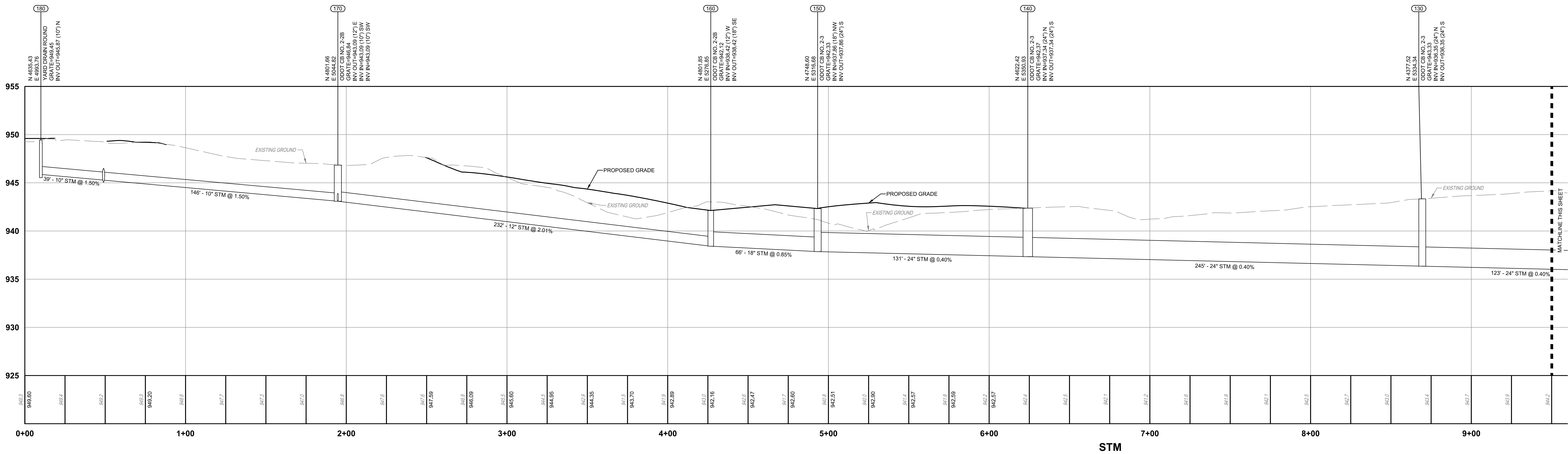


UTILITY PLAN

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REVISIONS:

PRINTINGS:

Bid / Permit Set

CONSULTANTS

WARREN COUNTY
CAREER CENTER
MEDICAL ACADEMY
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PROJECT NO.:
PROJECT #263306.00
CHECKED BY: J. SHAW
DRAWN BY: K. LAGRANGE
DATE: 01/15/2026

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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:	BrU - 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

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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 TILE OR OTHER SUBSURFACE DRAINAGE STRUCTURES WITHIN 10 FT. 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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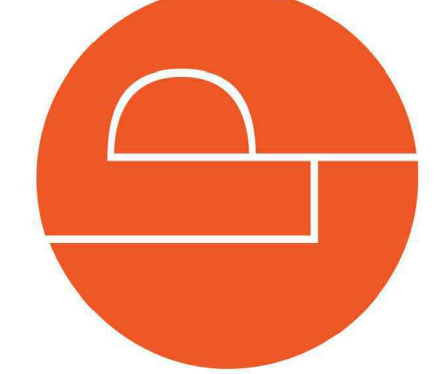
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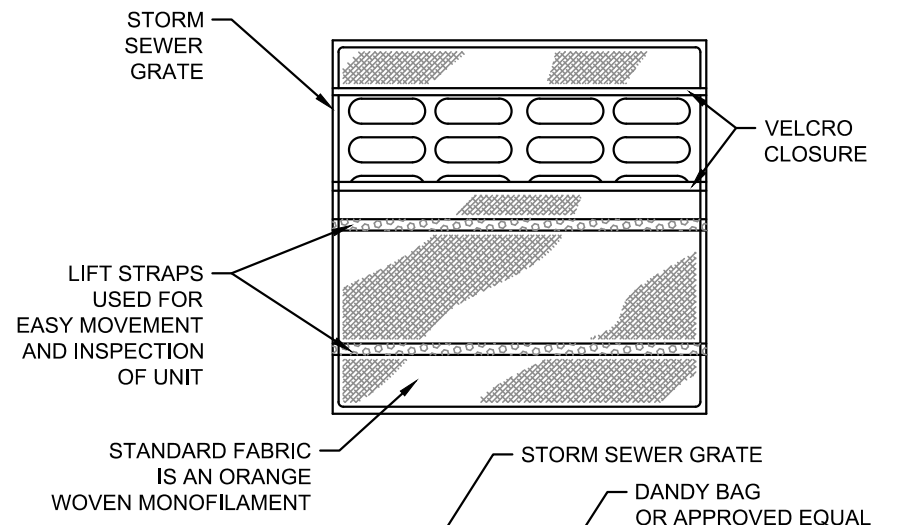
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EROSION CONTROL
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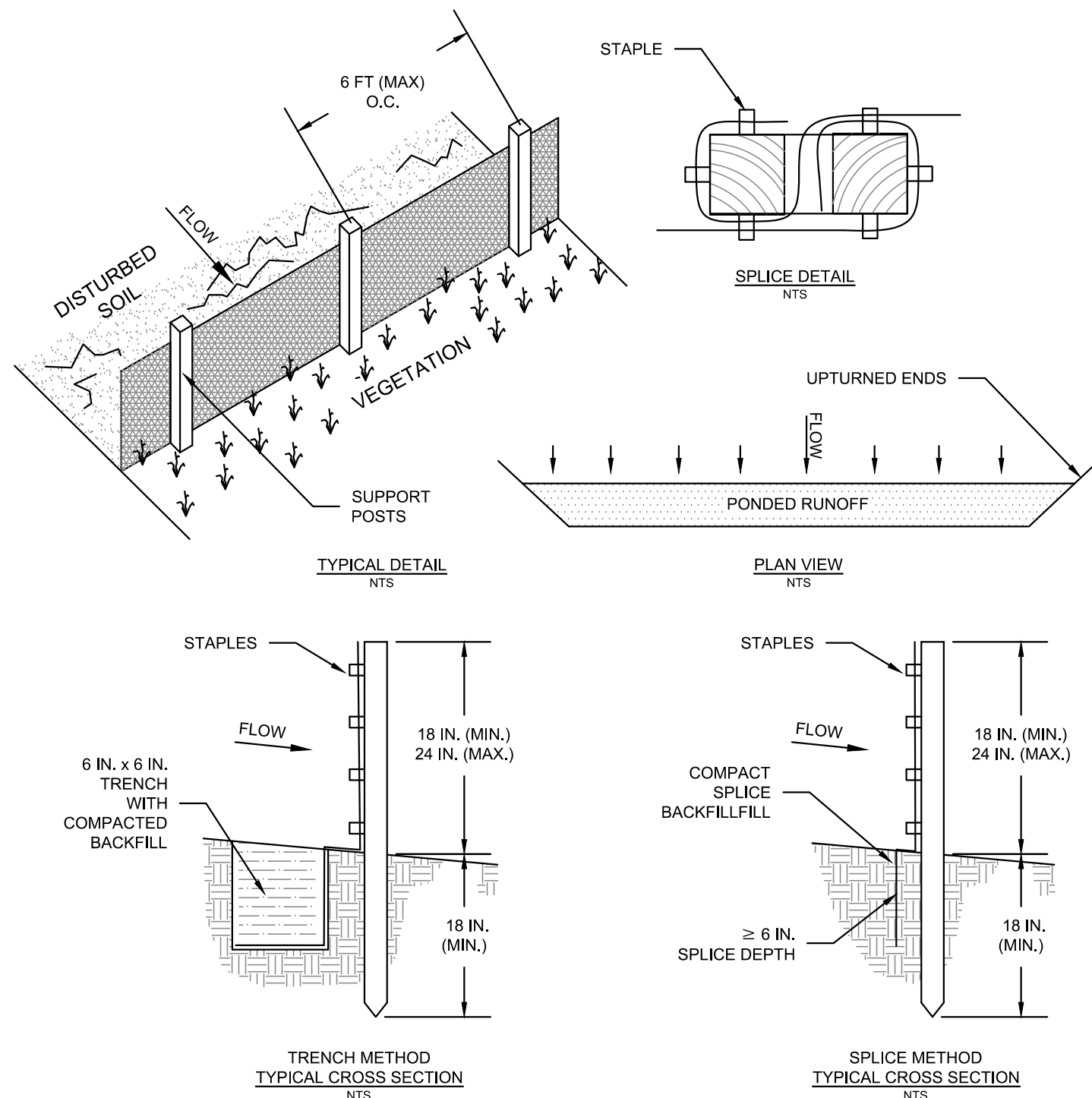


MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	KN (LBS)	1.62 (365) X 0.89 (200)
GRAB TENSILE ELONGATION	ASTM D 4632	%	24 X 10
PUNCTURE STRENGTH	ASTM D 4533	KN (LBS)	0.40 (90)
MULLEN BURST STRENGTH	ASTM D 3788	KPA (PSI)	3097 (450)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	KN (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

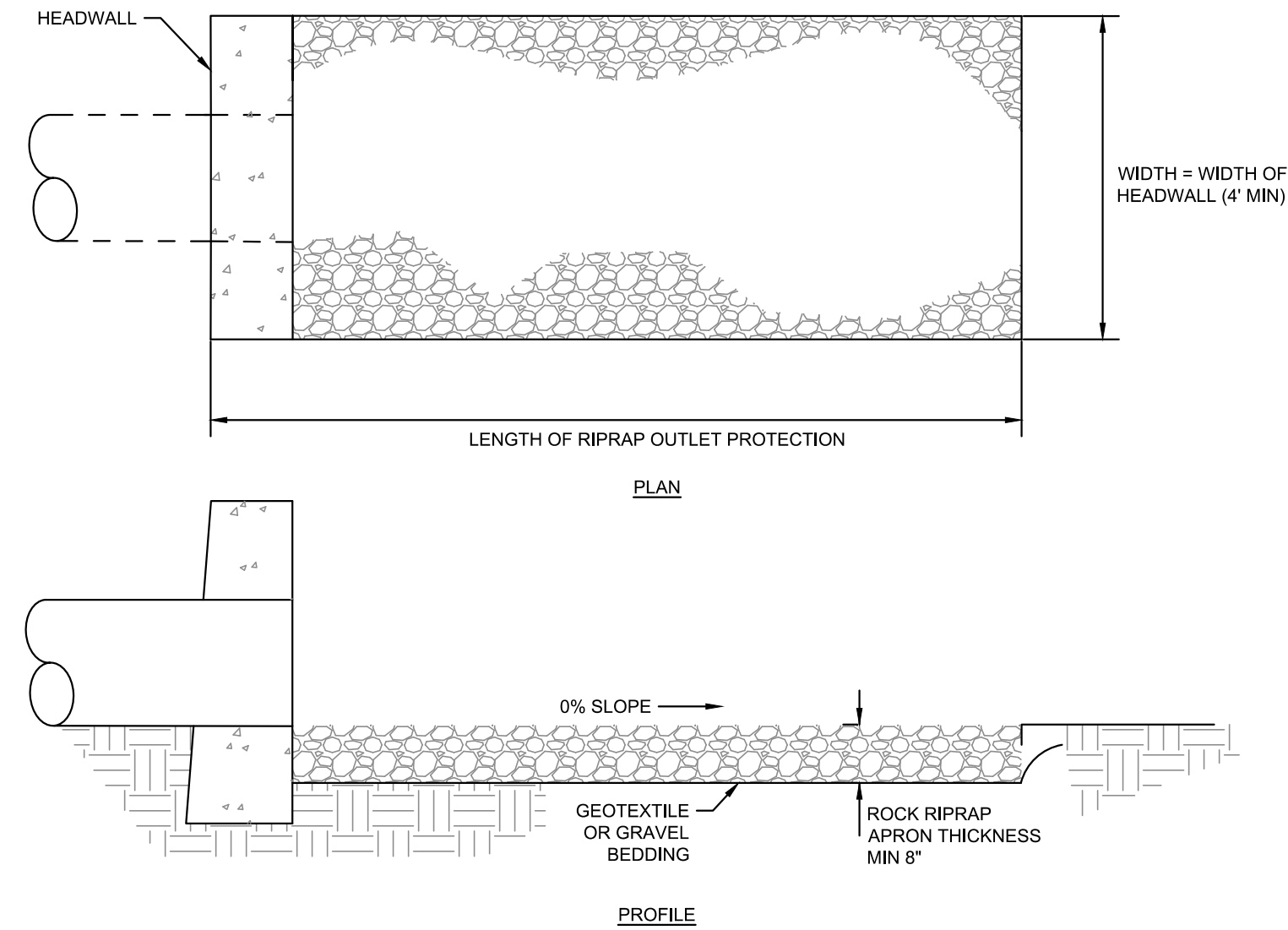
INSTALLATION

- 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.

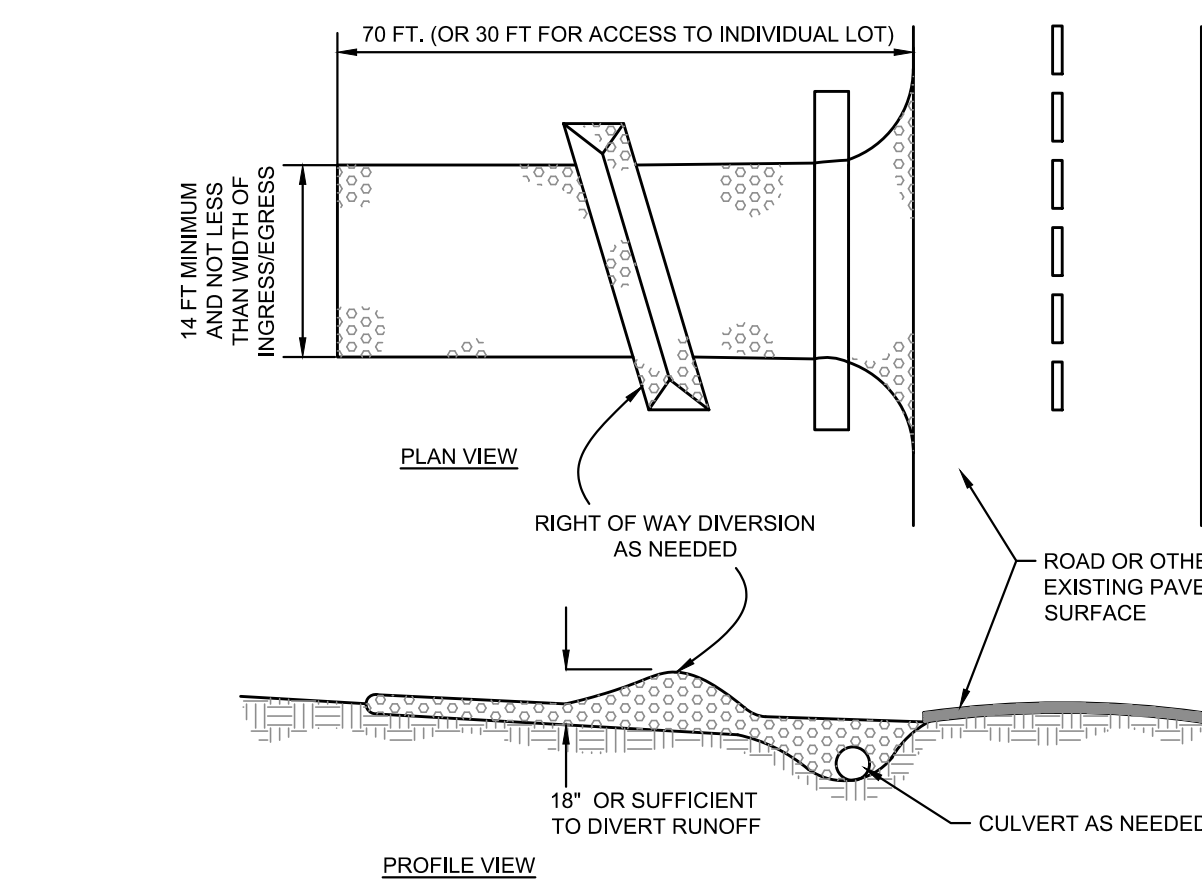
SILT FENCE DETAIL
N.T.S.



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, SOO, 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:

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
- TIMING - THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.
- 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.

CONSTRUCTION ENTRANCE DETAIL
N.T.S.

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- A. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2024 OHIO BUILDING CODE, INCLUDING REFERENCED CODES AND STANDARDS. ALL WORK SHALL BE SUBJECT TO REVIEW 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 OFFICIALS 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 CABINETY PROVIDED AND FIELD CONDITIONS BEFORE PERFORMING WORK.
- I. REFER TO ARCHITECTURAL DRAWING ELEVATIONS FOR EXACT 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 AND 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 ELECTRICAL AND ELECTRICAL SYSTEMS SHALL BE INCLUDED IN THE CONTRACT.

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.

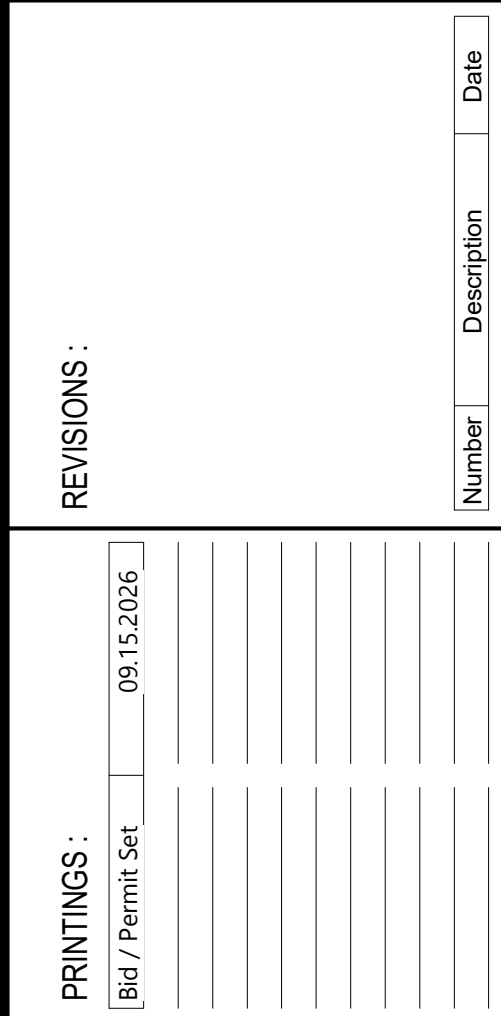
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↑	SINGLE POLE WALL SWITCH (46" M.H.)
↑2	TWO POLE WALL SWITCH (46" M.H.)
↑3	THREE-WAY WALL SWITCH (46" M.H.)
↑4	FOUR-WAY WALL SWITCH (46" M.H.)
↑OS	LIGHTING OCCUPANCY SENSOR WALL SWITCH (46" M.H.)
↑D	LIGHTING 0-10V LED DIMMER SWITCH WITH PRESET SLIDE 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 (30 SECONDS) "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.
OC5	OCCUPANCY SENSOR, CEILING MOUNTED.
OT	OCCUPANCY SENSOR CONTROL RELAY.
OCF	OCCUPANCY SENSOR CONTROL RELAY; 2 CIRCUIT TYPICAL FOR NORMAL AND EMERGENCY POWER CONTROL.
ELB	OCCUPANCY SENSOR ILL. 924 RELAY TO TURN EMERGENCY SWITCH/LEG LIGHTS "ON" AND BYPASS SWITCH ON LOSS OF NORMAL POWER. DIMMED EMERGENCY FIXTURES TO BE DIMMED BY DIMMER CONTROL TO DRIVE DIMMED FIXTURES TO FULL BRIGHTNESS.
DIS	DISCONNECT SWITCH
MS	MOTOR STARTER OR VFD.
MSV	COMBINATION MOTOR STARTER OR VFD AND DISCONNECT SWITCH.
EM	ELECTRIC MOTOR.
UH	UNIT HEATER.
FC	FAN COIL UNIT.
CB	CIRCUIT BREAKER PANEL, FLUSH MOUNTED.
CBP	CIRCUIT BREAKER PANEL, SURFACE MOUNTED.
PP	POWER PANEL OR SWITCHBOARD, SURFACE MOUNTED.
VT	LINE VOLTAGE THERMOSTAT.
EB	ELECTRIC BASEBOARD HEATER.
AC	AIR CONDITIONER.
▼	NEW DATA OUTLET (18" M.H. UNLESS OTHERWISE INDICATED). TWO GANG GUTTER BOX WITH SINGLE GANG TRIM RING AND BLANK COVERPLATE. STUB AN EMPTY 1" BUSHED CONDUIT OUT ABOVE ACCESSIBLE CEILING.
▽	EXISTING DATA OUTLET.
VF	TELEPHONE/DATA FLOOR OUTLET, HUBBELL BA-2436 FLUSH FLOOR OUTLET BOX AND SA-3026 COVERPLATE WITH 0.75" BUSHED CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE CARPET FLANGE WHERE REQUIRED.
MA	WIRELESS WIF ACCESS POINT; CEILING MOUNTED.
FA	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.
FA	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.
FA	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.
FS	FIRE ALARM SENDING STATION (46" M.H.)
S	CEILING MOUNTED SMOKE DETECTOR.
H	CEILING MOUNTED HEAT DETECTOR.
S-SR	DUCT MOUNTED SMOKE DETECTOR (S/SUPPLY, RETURN).
H-SR	DUCT MOUNTED HEAT DETECTOR (S/SUPPLY, RETURN).
C	ELECTRIC RELEASE DOOR CLOSER.
D	ELECTRO-MAGNETIC DOOR HOLDER.
R	FIRE ALARM CONTROL OR SUPERVISORY INPUT RELAY AS NOTED. CONTROL RELAY TO HAVE FORM "C" CONTACT RATED MIN. 5 AMPS AT 120VAC.
W	WATER FLOW SWITCH.
V	FIRE ALARM SUPERVISED VALVE.
SV	SOLENOID VALVE.
RT	DUCT MOUNTED DETECTOR REMOTE TEST STATION AND ALARM INDICATOR.
SD	SMOKE DAMPER
EN	FIRE ALARM NOTIFICATION APPLIANCE POWER EXTENDER PANEL. PROVIDE 20A-200 CIRCUIT FROM LOCAL EMERGENCY PANEL. INDICATED CONNECT TO MAIN FIRE ALARM PANEL FOR NOTIFICATION SIGNALING.
T1	TELEVISION MONITOR RECEPTACLE AND CABLE OUTLET BOX ASSEMBLY REFER TO TV WALL BOX DETAIL - T1
T2	TELEVISION MONITOR RECEPTACLE AND CABLE OUTLET BOX ASSEMBLY REFER TO TV WALL BOX DETAIL - T2
CR	DOOR ACCESS CONTROL SYSTEM CARD READER - 46" M.H.
CF	CCTV CAMERA - F = FIXED; PTZ = PAN/TILT/ZOOM
AS	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).
P	PUSHBUTTON DOOR CONTROLS FURNISHED BY THE DOOR EQUIPMENT SUPPLIER AND INSTALLED BY THE E.C. (42" M.H.)
PN	PUSHBUTTON (46" M.H. UNLESS OTHERWISE NOTED NOT ON PLAN).

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 "FD1". 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 CONNECTION REQUIRED.
	EXIT LIGHTING FIXTURE. ARROWS AS INDICATED.
	INTEGRAL BATTERY BACKUP
	LIGHTING FIXTURE
	CAPITAL LETTER DENOTES FIXTURES TYPE.
	LOWER CASE LETTER DENOTES SWITCHING ARRANGEMENT.
	LIGHTING FIXTURE WITH INTEGRAL BATTERY BACKUP
	WIRE RUN IN SURFACE RACEWAY.
	WIRE & CONDUIT FOR NIGHT LIGHT CIRCUITRY.
	WIRE & CONDUIT FOR EMERGENCY CIRCUITRY.
	EXISTING WIRE & CONDUIT.
	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 CIRCUIT 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 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® #WP26M 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.).

SHEET	DRAWING TITLE
E-001	LEGENDS, SPECS. AND INDEX
E-002	LIGHTING FIXTURE AND MOTOR/STATOR 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



**WARREN COUNTY CAREER
CENTER
MEDICAL ACADEMY**



LEGENDS, SPECS.
AND INDEX

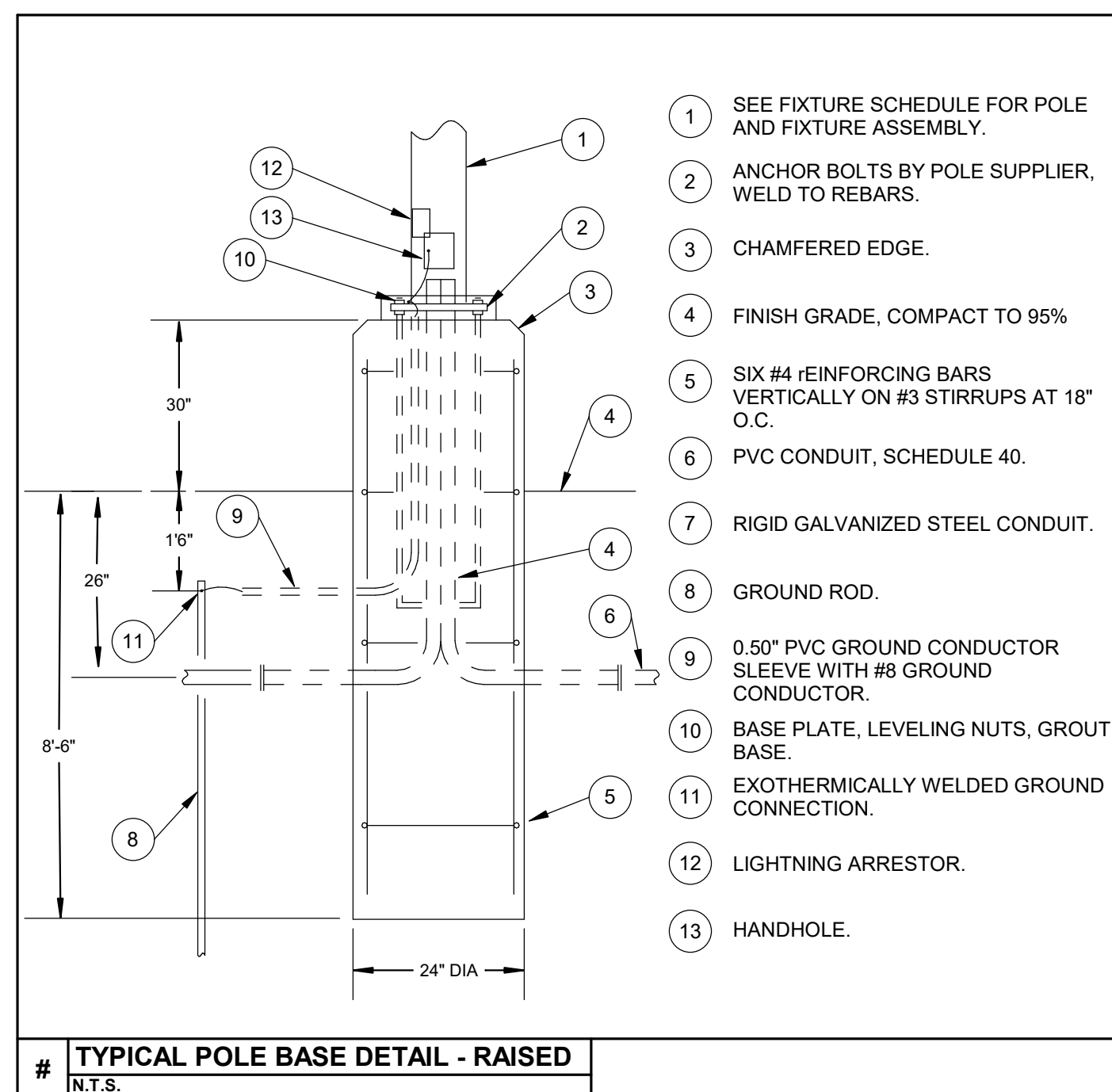
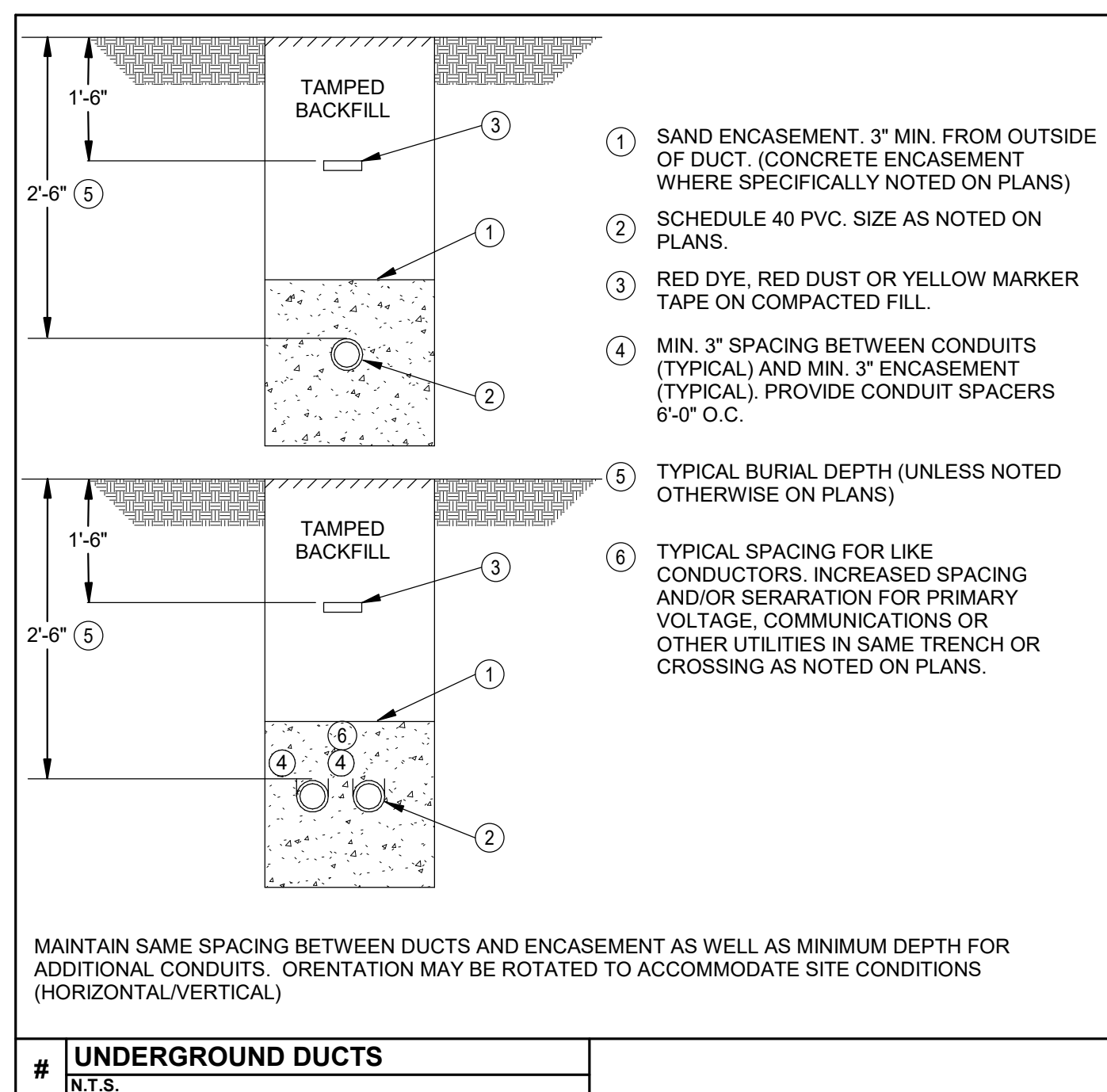
E-001

[illegible]

1. PROGRAM EXTERIOR LIGHTING FOR PHOTO CELL ON/OFF CONTROL
- 2.
- 3.

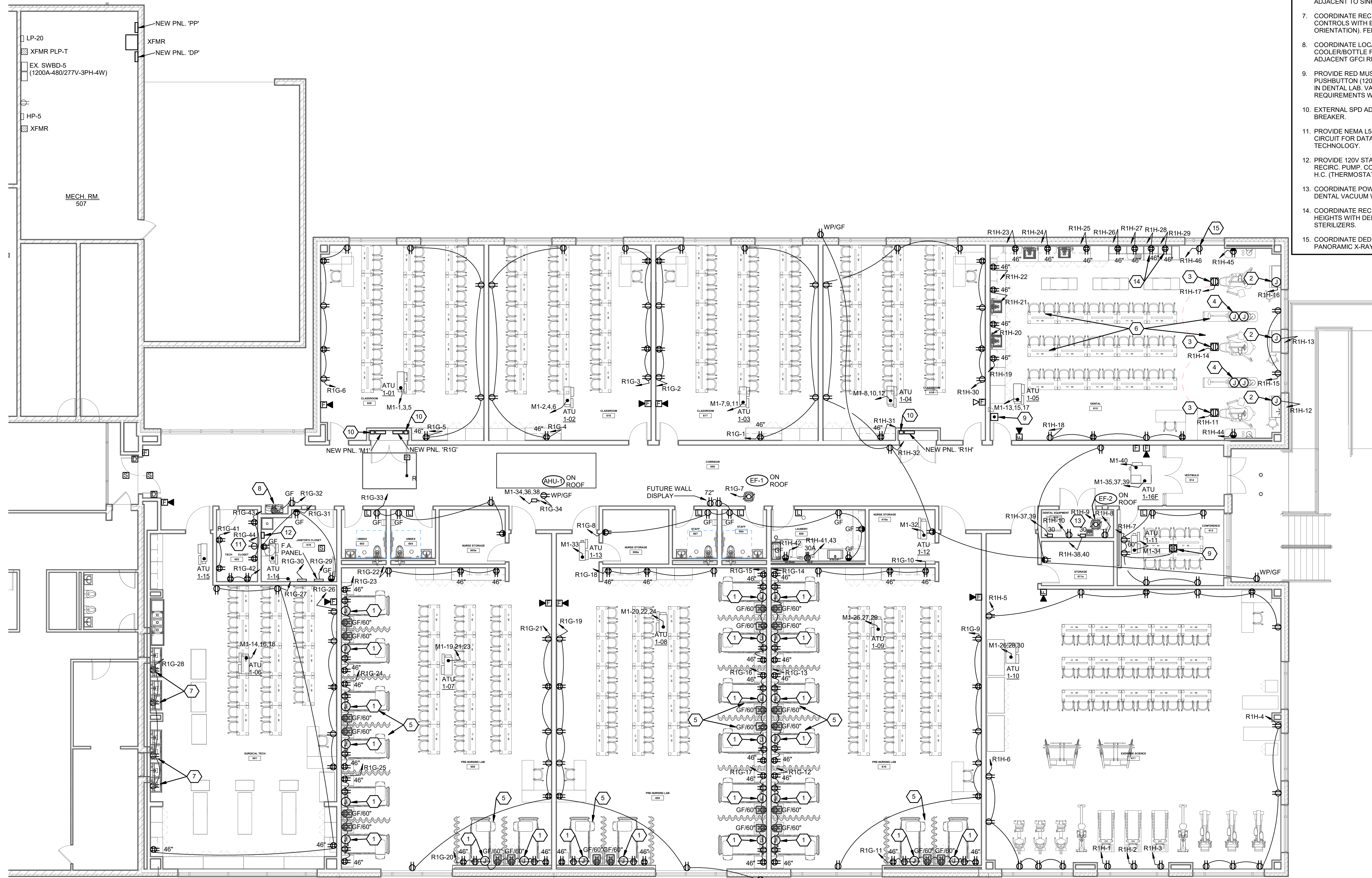
FIXTURE SYMBOL	LUMINAIRE				FIXTURE VOLTAGE	MANUFACTURER & CATALOG NO.	OTHER ACCEPTABLE MANUFACTURES	DIFFUSING MEDIA	TRIM COLOR				MOUNTED S - SURFACE R - RECESSED, SM - STEM MTD, WM - WALL MTD, C - CHAIN MTD, UC - UNDER CAB, CS - CLG. SURF.	SIZE						
	TYPE		WATTS/FIXTURE	LUMENS/ COLOR TEMP					WHITE	BLACK	ALUMINUM	BRONZE		STANDARD	SEE NOTES	WIDTH	LENGTH	DEPTH	DIAMETER	SEE NOTES
	LED																			
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-ELL 10	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-M-15L-35K-8-MID-DM1-LF6RD-SS-WT	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-M-15L-35K-8-MID-DM1-LF6RD-SS-WT-CL	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 #M-750			•				CS				5		
K1	•			50		120	HUBBELL #TRF2-24L-50-4KT-3-UNV-DBS-PC	LUMARK, LITHONIA, GARDOO	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	•										

1. LUMEN AND COLOR SELECTABLE. SET AT 3500K AND MEDIUM LUMEN OUTPUT.
2. SAME AS 'NON-E' FIXTURE TYPE BUT WITH EMERGENCY BATTERY BACKUP.
3. FIXTURE AND POLE SHALL MATCH EXISTING SITE LIGHTING. E.C. SHALL FIELD VERIFY FIXTURE VOLTAGE.
4. 5" SQUARE STEEL POLE. SHALL HAVE PROVISIONS FOR CAMERA MOUNTING 15'-0".
5. SURGICAL PROCEDURE LIGHT FURNISHED/INSTALLED BY E.C. MANUFACTURED BY MEDICAL ILLUMINATION #XDP-SC-CR20. PHONE # (800) 831-1222.
6. ADJUSTABLE LUMEN OUTPUT, COLOR TEMP. AND DISTRIBUTION.

[illegible]

1. PROVIDE FULL 200 AMP FEEDER TO FUSIBLE DISCONNECT AT RTU. FUSE AND FEED TO UNIT PER MANUFACTURER.
2. PROVIDE 20A-277V FEED TO FAN MOTOR IN ADDITION TO 480V FEED TO HEATING ELEMENT.
3. 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.
- 4.
- 5.





FIRST FLOOR PLAN - POWER AND SYSTEMS
SCALE: 1/8" = 1'-0"

GENERAL NOTES

- 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).
- 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

- PROVIDE 20A-120V POWER CONNECTION TO SIMULATION HEAD WALL UNIT ABOVE PATIENT BED. COORDINATE WALL ROUGH-IN LOCATION WITH ARCHITECT.
- PROVIDE 20A-120V POWER CONNECTION TO SIMULATION DENTAL CASEWORK. COORDINATE FLOOR ROUGH-IN LOCATION WITH ARCHITECT.
- COORDINATE ROUGH-IN LOCATION FOR SIMULATION DENTAL CHAIR PEDESTAL RECEPTACLE WITH ARCHITECT.
- PROVIDE 20A-120V POWER CONNECTIONS TO SIMULATION DENTAL CASEWORK (RECEPTACLE/X-RAY LIGHT AND X-RAY). COORDINATE FLOOR ROUGH-IN WITH ARCHITECT.
- ALL RECEPTACLES ON PATIENT HEADWALL SHALL BE GFCI TYPE.
- ALL RECEPTACLES AT DENTAL STATIONS AND COUNTERTOP ADJACENT TO SINKS SHALL BE GFCI TYPE.
- COORDINATE RECEPTACLE HEIGHT AND LOCATION FOR SINK CONTROLS WITH EQUIPMENT SUPPLIER. (20" M.H., HORIZONTAL ORIENTATION). FEED RECEPTACLES FROM GFCI BREAKER.
- COORDINATE LOCATION FOR RECEPTACLE FOR WATER COOLER/BOTTLE FILLER WITH P.C. FEED THRU FROM ADJACENT GFCI RECEPTACLE.
- 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.
- EXTERNAL SPD ADJACENT TO PANEL. CONNECT TO 30A/3P BREAKER.
- PROVIDE NEMA L5-30R RECEPTACLE AND DEDICATED 30A-120V CIRCUIT FOR DATA RACK. COORDINATE LOCATION WITH TECHNOLOGY.
- PROVIDE 120V STARTER FOR CONTROL OF HOT WATER RECIRC. PUMP. COORDINATE CONTROL WIRING WITH P.C. & H.C. (THERMOSTAT & TIMECLOCK CONTROLS).
- COORDINATE POWER CONNECTIONS TO DENTAL AIR AND DENTAL VACUUM WITH EQUIPMENT VENDOR.
- COORDINATE RECEPTACLE LOCATIONS AND MOUNTING HEIGHTS WITH DENTAL CASEWORK FOR DENTAL EQUIPMENT STERILIZERS.
- COORDINATE DEDICATED RECEPTACLE LOCATION FOR PANORAMIC X-RAY WITH ARCHITECT/OWNER.

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JEFFREY D. ZELINSKI

63822

JEFFREY D. ZELINSKI, LICENSE #63822

EXPIRATION DATE 12/31/2027

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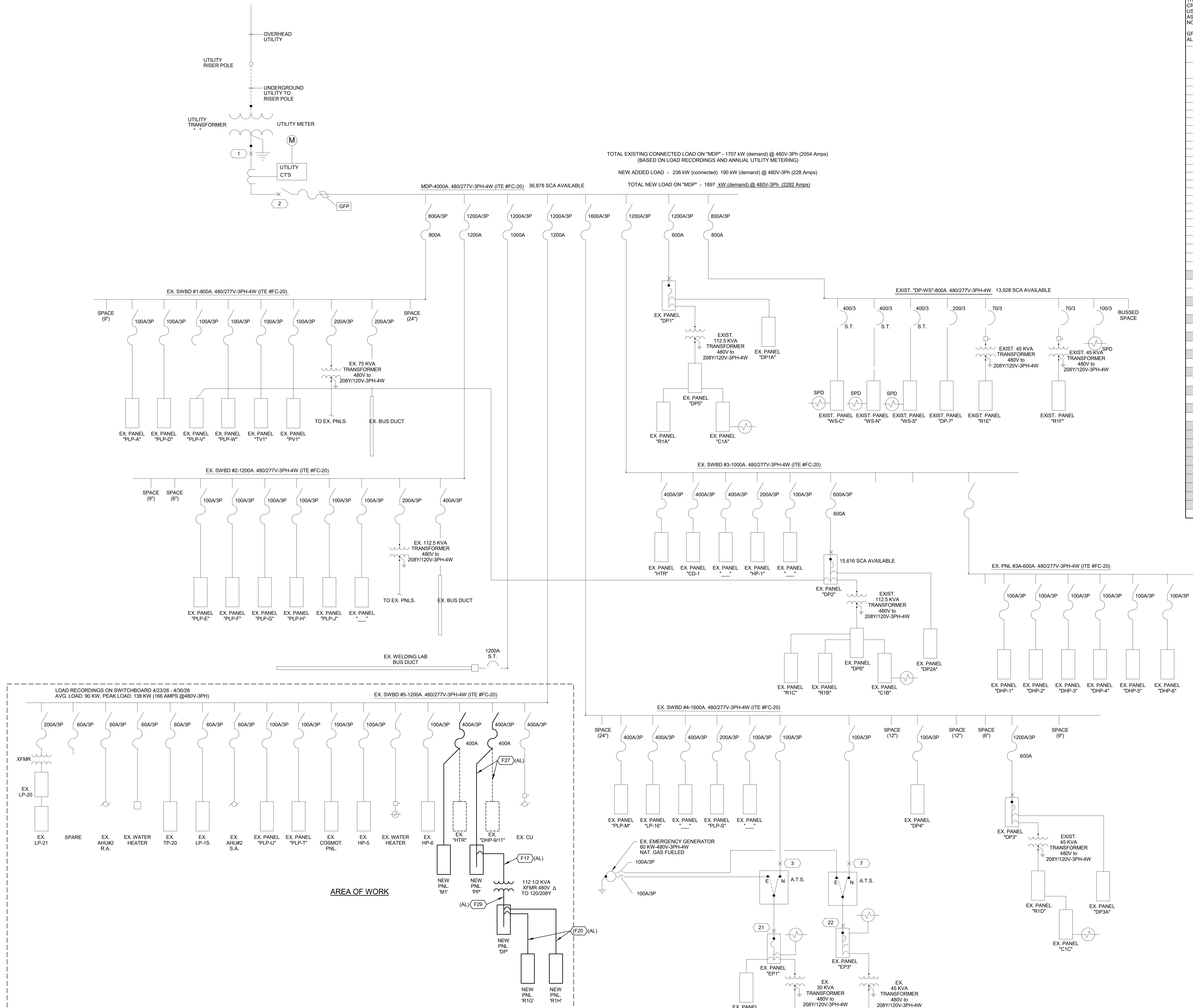
WARREN COUNTY CAREER
CENTER
MEDICAL ACADEMY
3525 OH-48, Lebanon, OH 45036

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

LEVIN PORTER
ARCHITECTS
3011 DELUMARK DRIVE
MARIETTA, OHIO 45754
www.levin-porter.com
Levin Porter Associates Inc. dba Levin Porter Architects

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.	2.5"	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					

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JEFFREY D. ZELINSKI

63822

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EXPIRATION DATE 12/31/2027

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TCR

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WARREN COUNTY CAREER CENTER

MEDICAL ACADEMY

3525 OH-46, Lebanon, OH 45036

LEVIN PORTER ARCHITECTS

3011 DELUMARK DRIVE

MINNISBURG, OHIO 45342

www.levin-porter.com

Levin Porter Associates Inc. dba Levin Porter Architects

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		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			---	---	---	16
17	---	---	---				5700 VA 4133 VA		---	---	---	18
19	ATU 1-07	20 A	3		4367 VA 4367 VA		4367 VA 4367 VA		3	20 A	ATU 1-08	20
21	---	---	---			4367 VA 4367 VA		4367 VA 4367 VA	---	---	---	22
23	---	---	---					4367 VA 4367 VA	---	---	---	24
25	ATU 1-09	20 A	3		4367 VA 8567 VA		4367 VA 8567 VA		3	20 A	ATU 1-10	26
27	---	---	---			4367 VA 8567 VA			---	---	---	28
29	---	---	---				4367 VA 8567 VA		---	---	---	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			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	--	--	--	--					--	--	--	6
9	Spare	100 A	3	--	0 VA	0 VA	15418... 11401...	--	3	100 A	Spare	8
9	--	--	--	--		0 VA	0 VA		--	--	--	10
11	--	--	--	--			0 VA	0 VA	--	--	--	12
13												14
15												16
17												18
19												20
21												22
23												24
25												26
27												28
29												30
Total Load:					27631 VA	23095 VA	26819 VA					

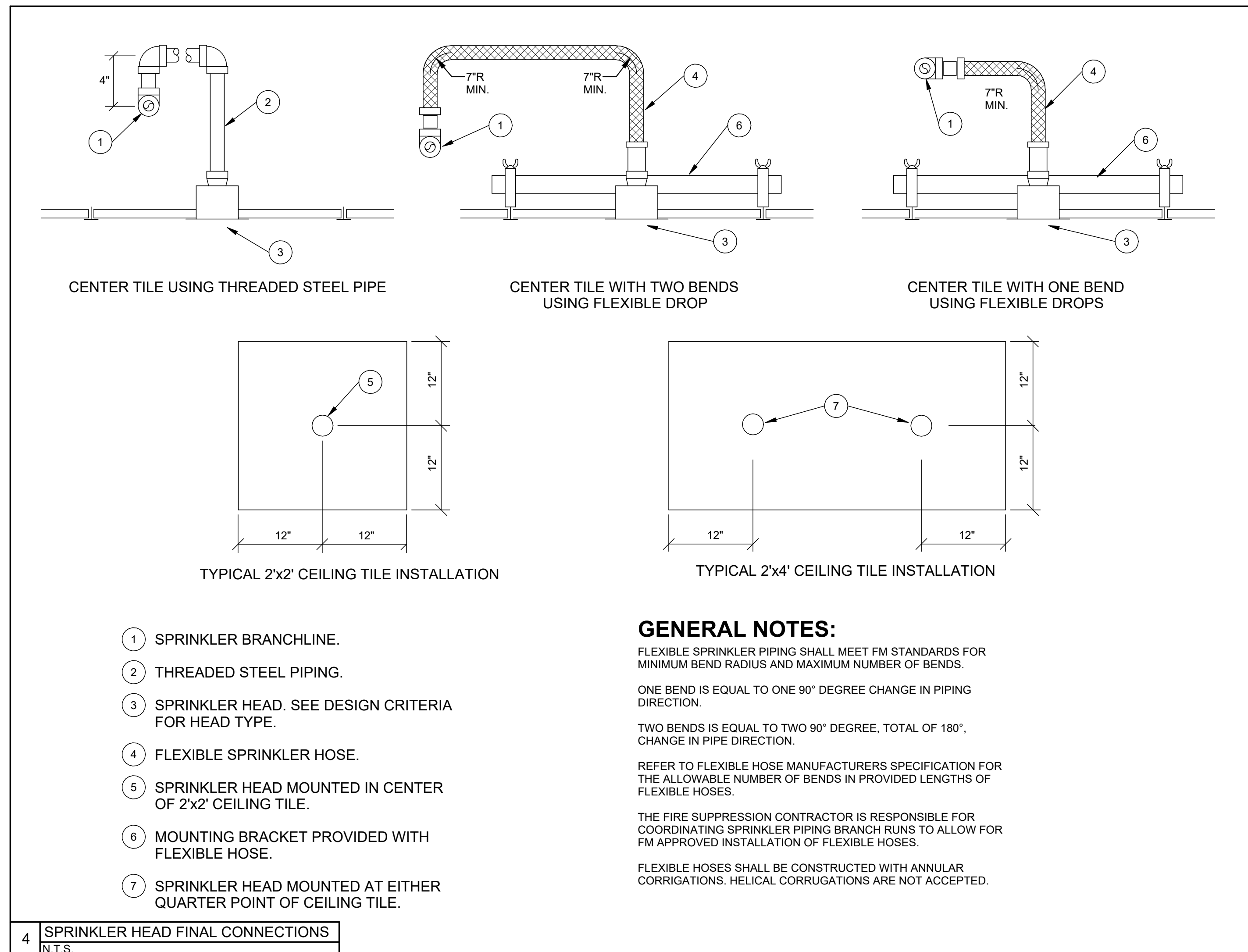
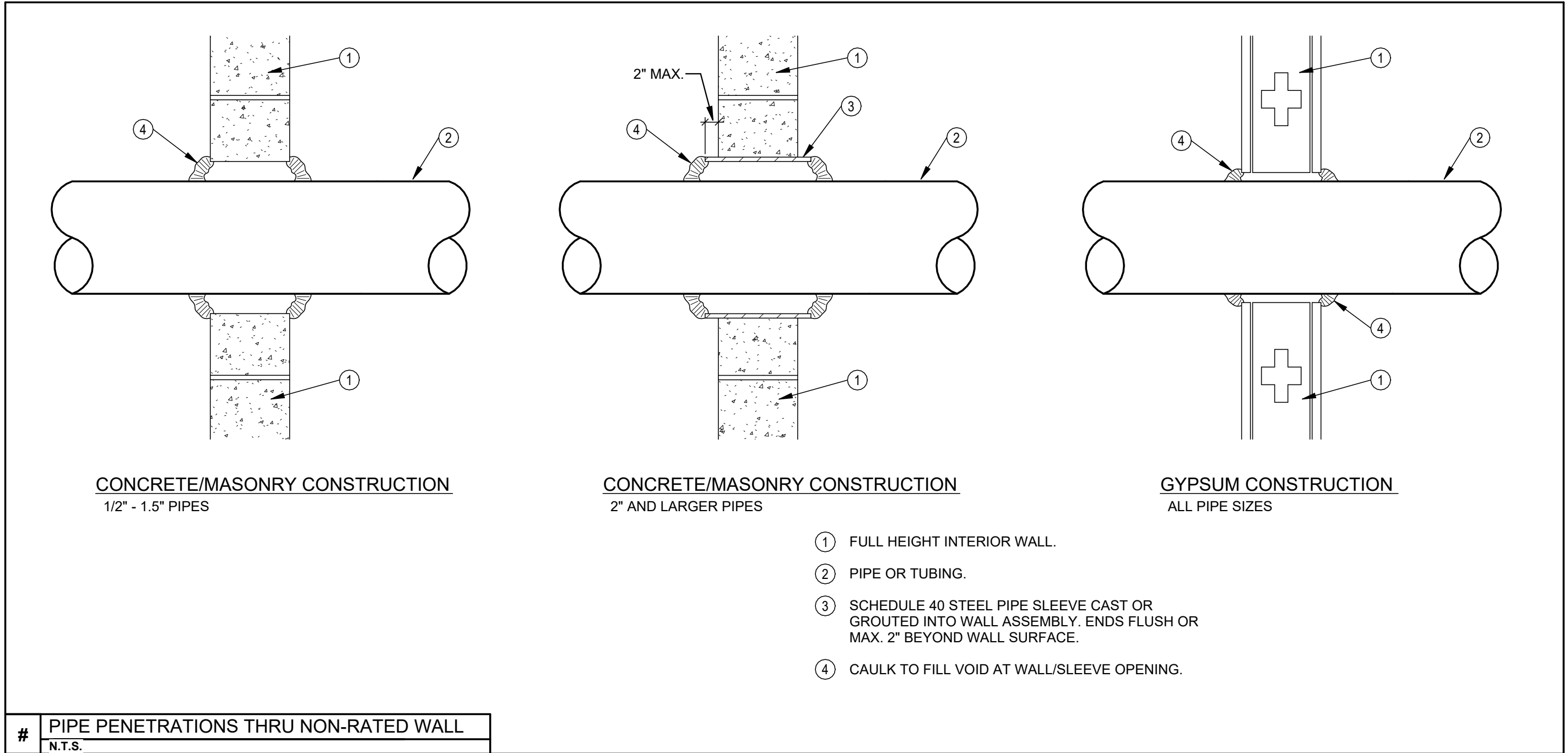
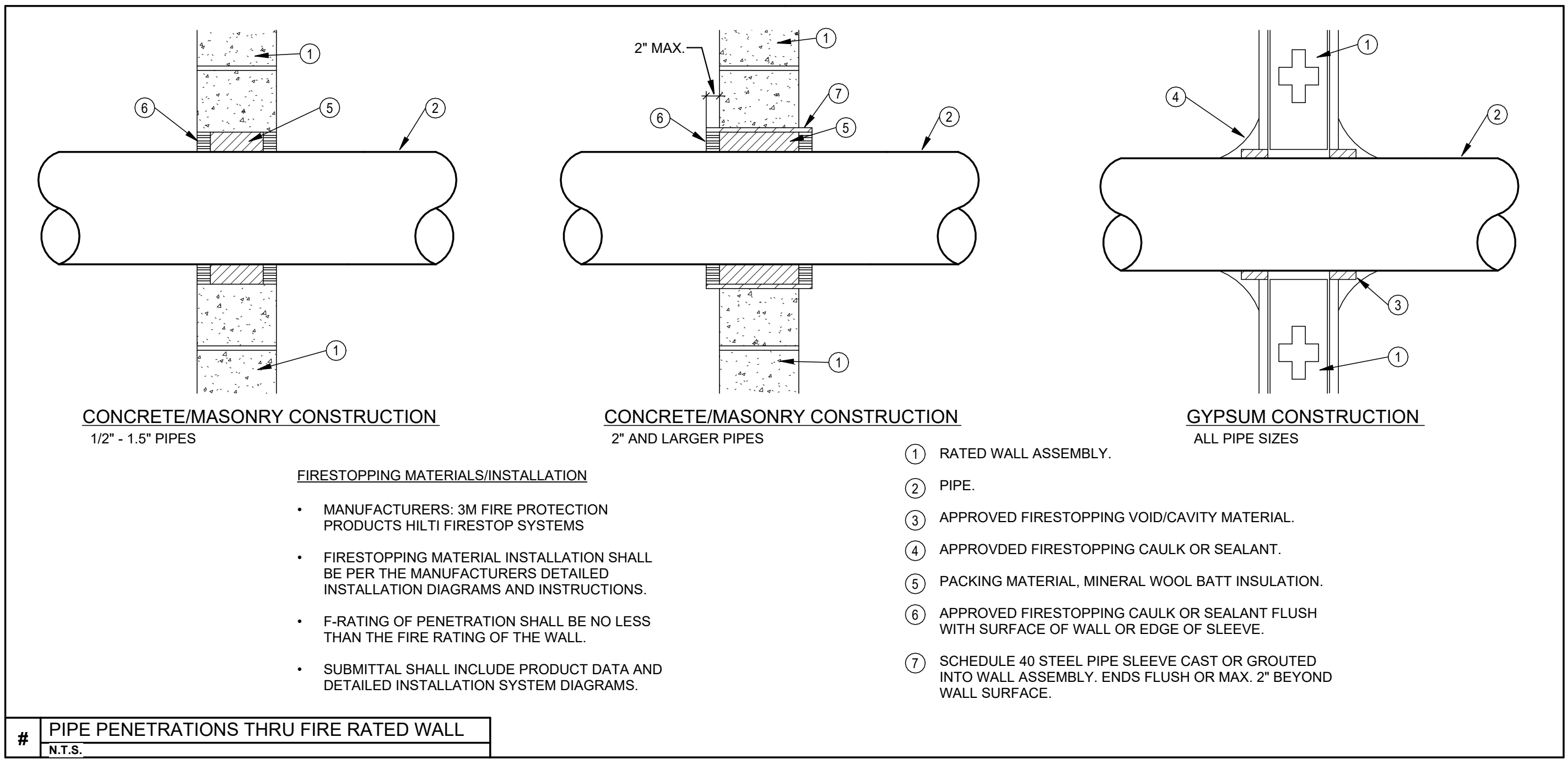
NOTES:

Light Classification	Connected Load	Demand Factor	Estimated...	Panel Totals
Lighting	9939 VA	100.00%	9939 VA	
Motor	2000 VA	80.00%	1600 VA	Total Conn. Load: 77545 VA
Other	4700 VA	100.00%	4700 VA	Total Est. Demand: 52049 VA
Receptacles	720 VA	100.00%	720 VA	Total Conn. Current: 215 A
	60192 VA	58.31%	35096 VA	Total Est. Demand Current: 144 A

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	1620 VA	1800 VA					1	20 A		Receptacles	20
21	Receptacles	20 A	1			1440 VA	900 VA			1	20 A		Receptacles	22
23	Receptacles	20 A	1					1800 VA	1800 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					659 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	30 A		Receptacles	44
45	Spare	20 A	1			0 VA	0 VA			1	30 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		SPD	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 Conn. Load: 48748 VA									
Receptacles		38160 VA	63.10%	24080 VA	Total Est. Demand: 34468 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	1
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	1280 VA	180 VA						1	20 A	Receptacles	8
9	Motor	20 A	1			1000 VA	180 VA				1	20 A	Receptacles	10
11	Power	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:				10078 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: 22551 VA					
Power				720 VA	100.00%	720 VA			Total Est. Demand Current: 80 A					
Receptacles				22032 VA	72.69%	16016 VA			Total Est. Demand Current: 63 A					



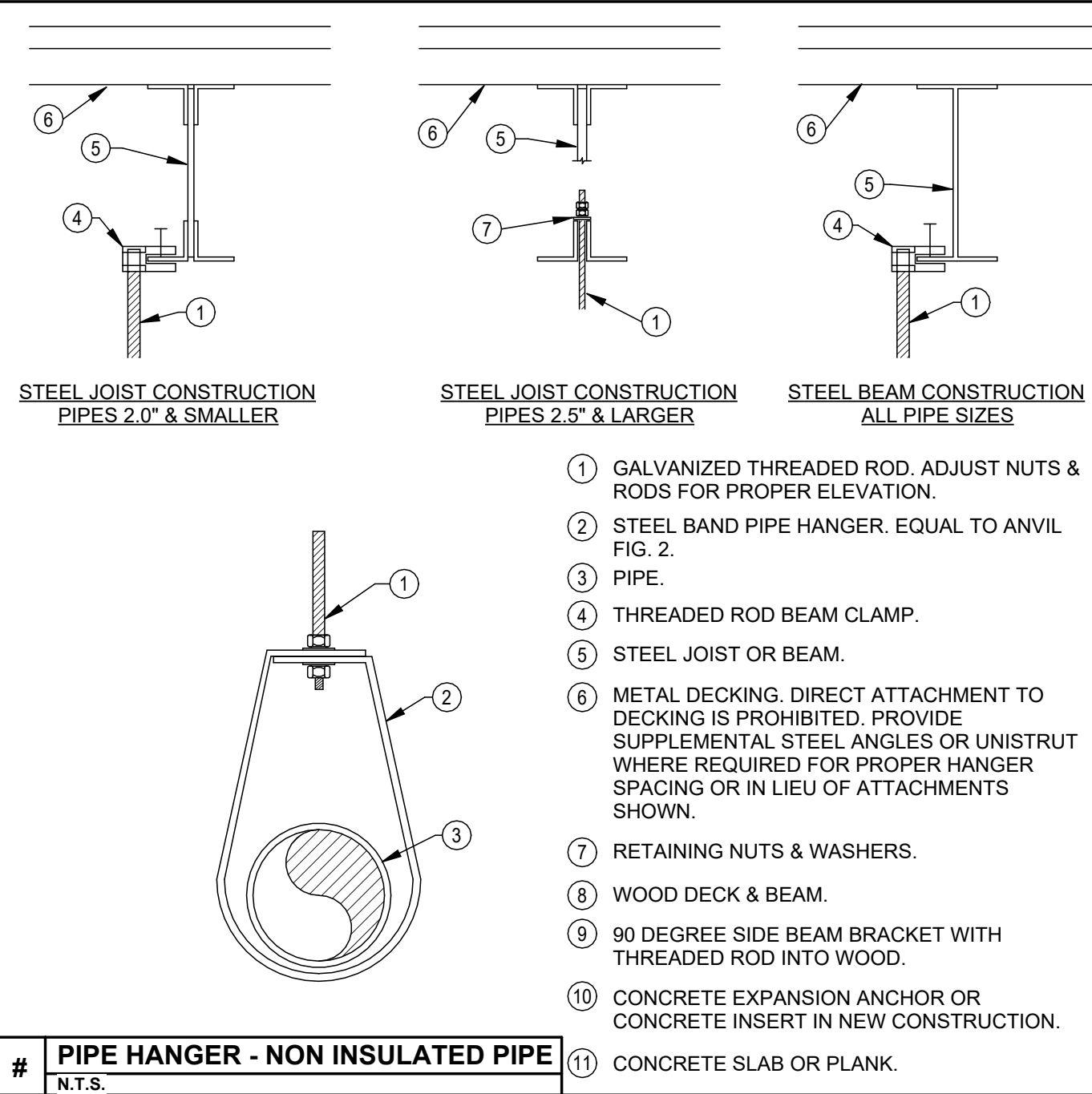
DESIGN CRITERIA

- 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
- HYDRAULIC DESIGN CRITERIA FOR ORDINARY HAZARD (GROUP 2) AREAS: (ADD SPECIFIC ROOM)
DENSITY: 0.2 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

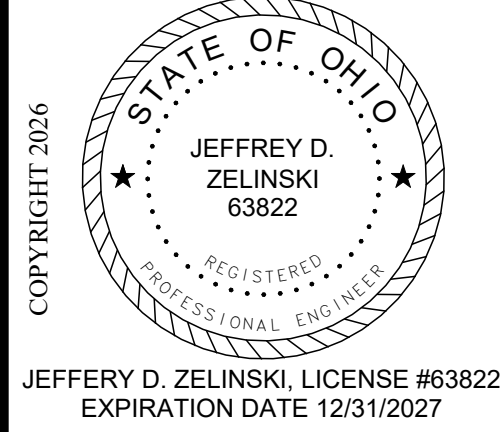
SHEET	DRAWING TITLE
F0.1	LEGENDS AND SCHEDULES
F1.1	NEW WORK PLAN
F1.2	EXISTING BUILDING PLAN - WEST
F1.3	EXISTING BUILDING PLAN - EAST

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.
H2 DETAIL "B" SHOWN ON SHEET H2.
A SECTION SYMBOL.
H1 SECTION "A" DESIGNATION, SHOWN ON SHEET H1.
H1 CONNECTION, NEW TO EXISTING.
FD1 UP TO SYMBOL.
FD1 UP TO "FD1", SHOWN ON FLOOR ABOVE.
--- ITEM TO BE REMOVED.
--- EXISTING TO REMAIN.
--- NEW ITEM.

FIRE SUPPRESSION LEGEND

- F FIRE SUPPRESSION SYSTEM
S SPRINKLER SYSTEM
G GATE VALVE
V VALVE
V-R VALVE ON RISER
C CHECK VALVE
S-V SUPERVISED VALVE
FS FLOW SWITCH
CAP CAP
C-B CONNECTION, BOTTOM
C-T CONNECTION, TOP
E-90 ELBOW, 90°, LONG RADIUS
E-45 ELBOW, 45°
E-TU ELBOW, TURNED UP
E-TD ELBOW TURNED DOWN
R REDUCER
U UNION
P PRESSURE GAUGE
S-R SPRINKLER BEING REMOVED
S-U UPRIGHT SPRINKLER
S-C CONCEALED SPRINKLER
S-S SIDEWALL SPRINKLER



REVISIONS :

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

PRINTINGS :

Sheet	Printed
1	09/15/2025

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204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
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WARREN COUNTY CAREER
CENTER
MEDICAL ACADEMY
3525 OH-48, Lebanon, OH 45036

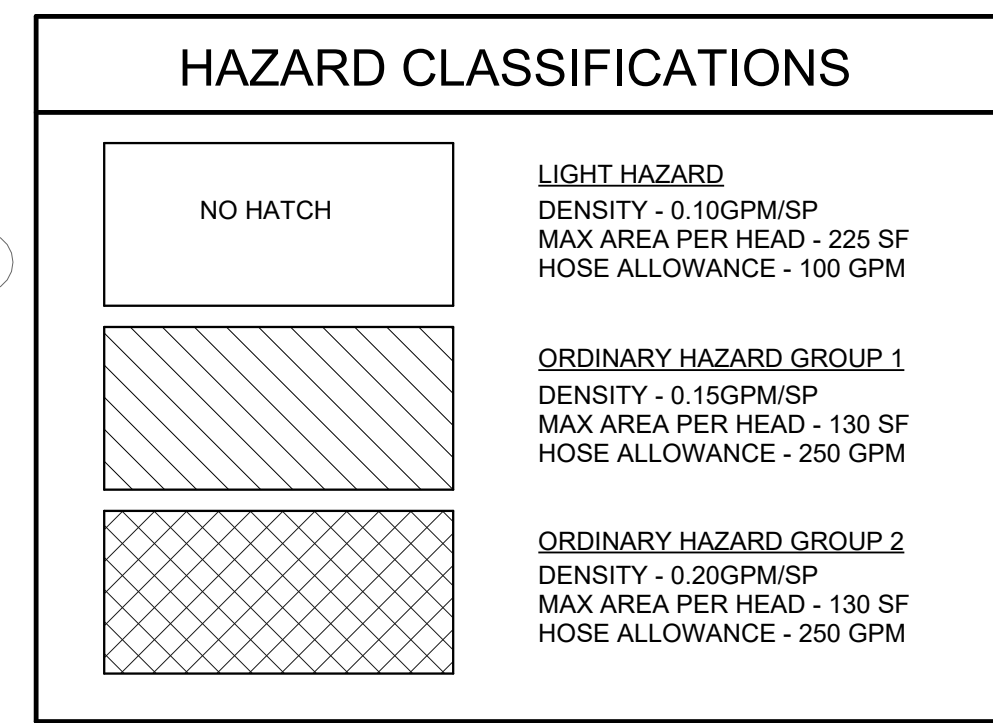
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CHECKED BY: J.D.Z.
DRAWN BY: J.D.Z.
DATE: 09/15/2025

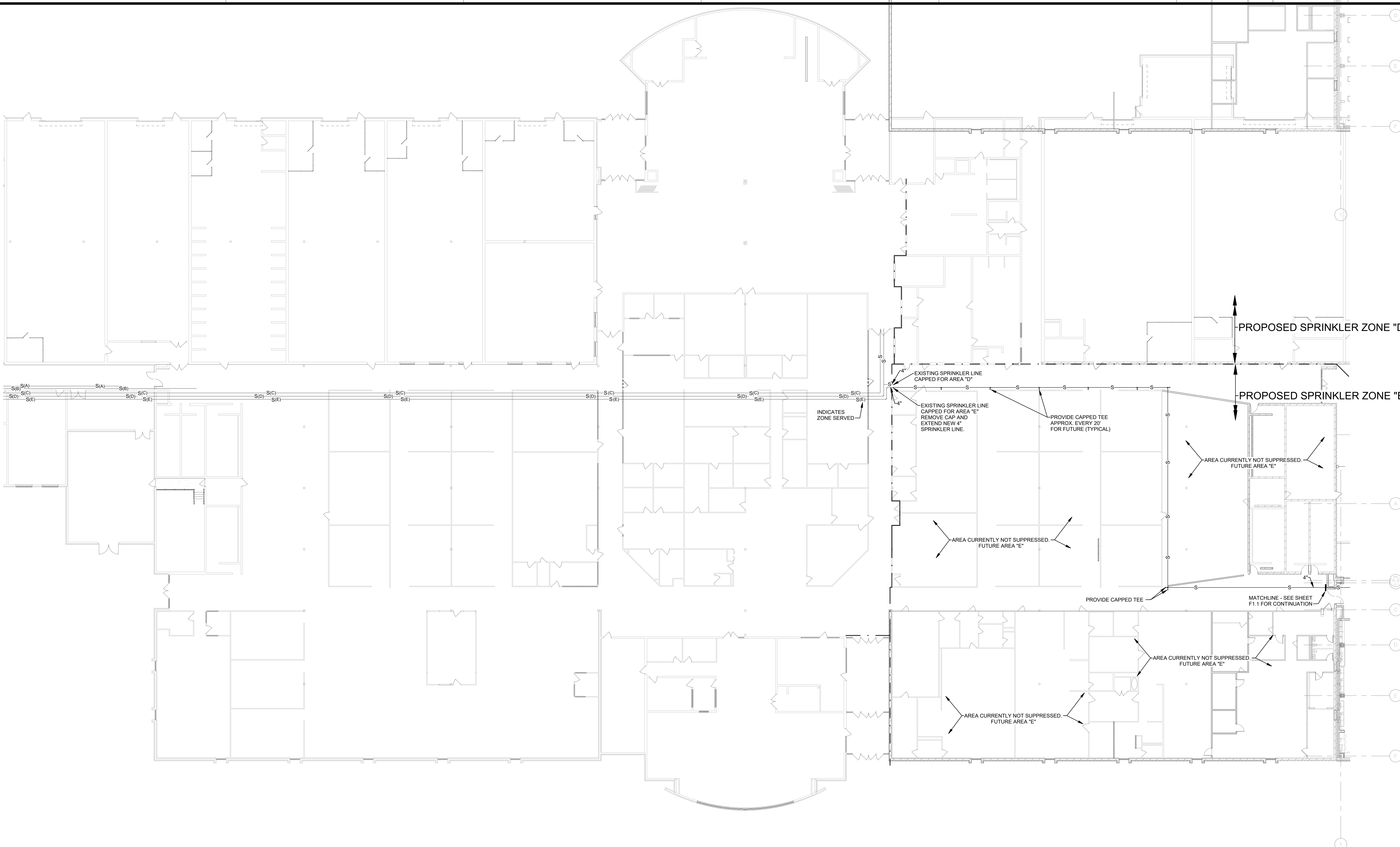
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www.levin-porter.com
Levin Porter Architects Inc. dba Levin Porter Architects



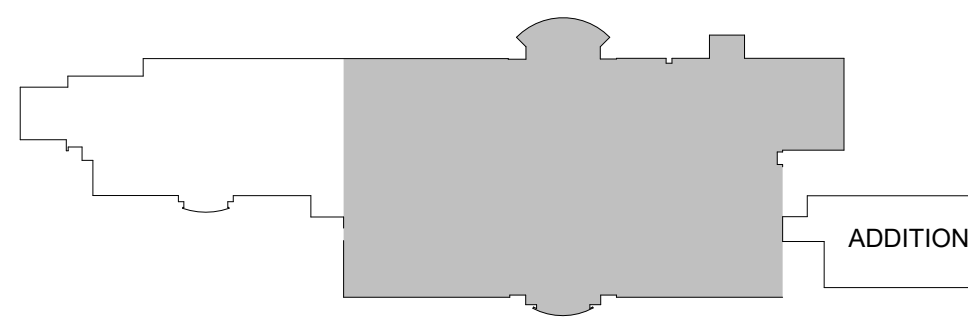
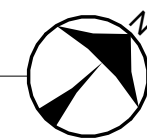
LEGENDS AND SCHEDULES

F0.1





EXISTING BUILDING - WEST
SCALE: 1/16" = 1'-0"



KEY PLAN



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STATE OF OHIO

JEFFREY D. ZELINSKI

63822

PROFESSIONAL SEAL

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

PRINTINGS :
Bld / Permit Set
09.15.2026

REVISIONS :
Number Description Date

CONSULTANTS

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3625 OH-48, Lebanon, OH 45036

PROJECT NO:
PROJECT #263306.00
CHECKED BY: J.D.Z.
DRAWN BY: D.E.G.
DATE: 09.15.2026

LEVIN PORTER
ARCHITECTS

3011 DELUMARK DRIVE
MIDDLETOWN, OHIO 45342
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Levin Porter Associates Inc. dba Levin Porter Architects

EXISTING BUILDING
PLAN - WEST

F1.2

GENERAL NOTES - HVAC

1. PROVIDE COMPLETE AND FUNCTIONAL HVAC SYSTEMS PER HVAC PLANS INCLUDING FURNISHING, INSTALLING, TESTING AND WARRANTY OF THE SYSTEM.
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 OR QUALIFIED SUBS. ALL CONTRACTORS, ALL CONTRACTORS SHALL BE LICENSED AND BE BONDED FOR THE WORK.
4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA AND OSHA 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.

GENERAL REQUIREMENTS - HVAC

1. PROTECT ALL FURNISHED MATERIAL AND EQUIPMENT FROM THEFT AND DEGRADATION OR CONTAMINATION DUE TO WEATHER OR 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-STRUCTURAL ROOF SHALL 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 E-MAILED TO THE ENGINEER. 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.

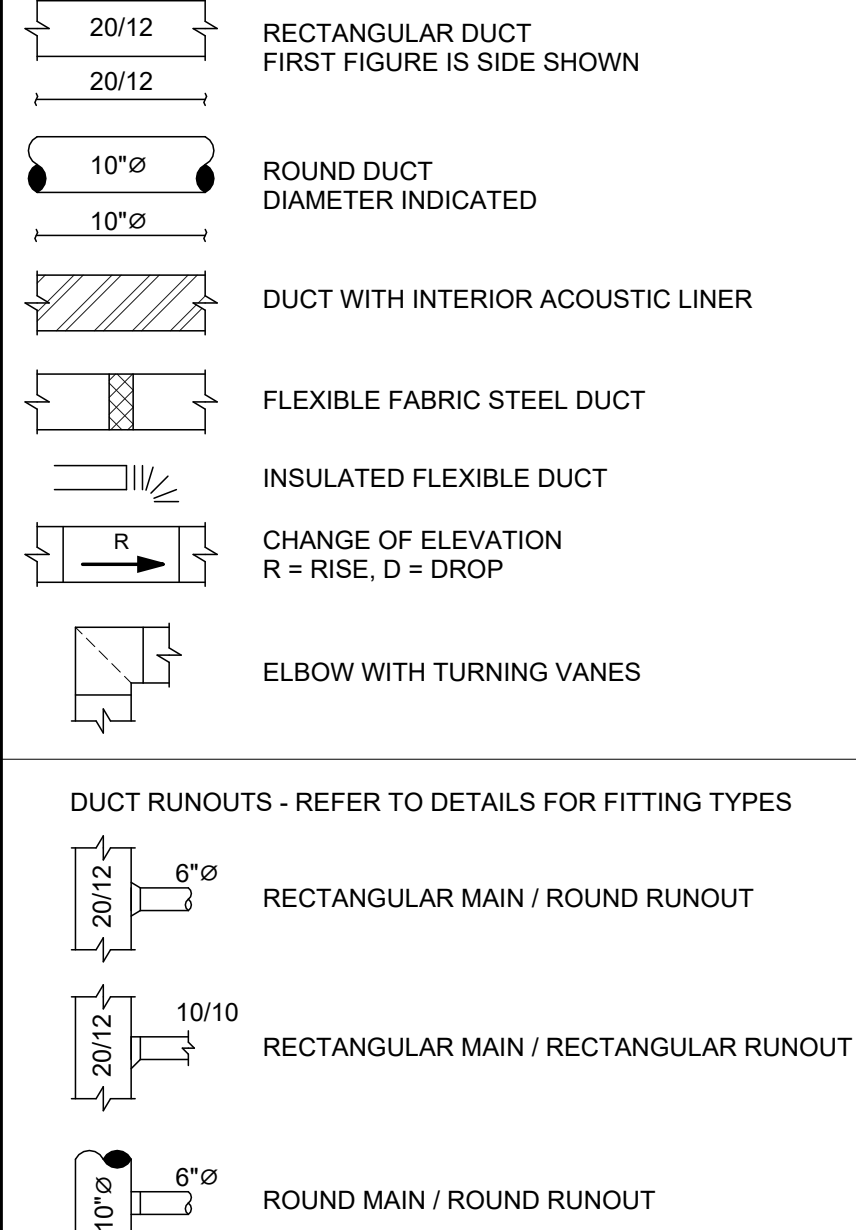
HVAC CLIMATE DESIGN NOTES

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 LOAD OF THE AIR TERMINAL UNITS EXCEEDS THE DESIGN AIR FLOW OF THE ROOFTOP UNIT SUPPLY FAN. THE DESIGN AIR FLOW SHALL BE DETERMINED BY THE SUPPLY FAN BY CLOSING SELECTED TERMINAL UNITS AND THEN BALANCING THE REMAINDER TO ACHIEVE A SUPPLY AIR DESIGN FLOW RATE OF 1,330 CFM. THE SUPPLY FAN SHALL BE SET TO READ AND SET THE DUCT 2/3RD 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 1,330 CFM FOR THE CORRESPONDING DUCT STATIC PRESSURE. THE 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 FLOW FLOWMETER AND FLOW STATIONS ONCE THE ABOVE AIR FLOWS ARE PROVEN VIA INSTRUMENT VERIFICATION. THE DDC SYSTEM SHALL MODULATE THE RETURN AND OUTDOOR AIR FLOW RATE IN UNISON TO MAINTAIN THE MINIMUM OUTDOOR AIR FLOW RATE.

DUCTWORK LEGEND



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
TC	COMBINATION TEMPERATURE & CARBON DIOXIDE SENSOR
P	PRESSURE SENSOR
E	ENTHALPY SENSOR
TI	THERMOSTAT - LINE OR LOW VOLTAGE
HD	HUMIDISTAT
R	RELAY

DAMPERS



MOTORIZED CONTROL DAMPER

GAUGES

(PDG) PRESSURE DIAL GAUGE - REFER TO SPECIFICATION FOR RANGES

- AIRFLOW UNITS: IN. W.C.
- WATER UNITS: PSI

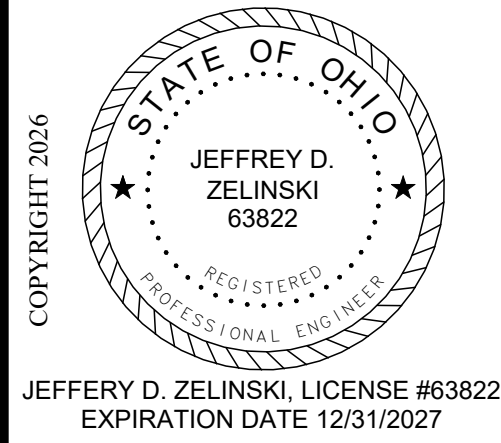
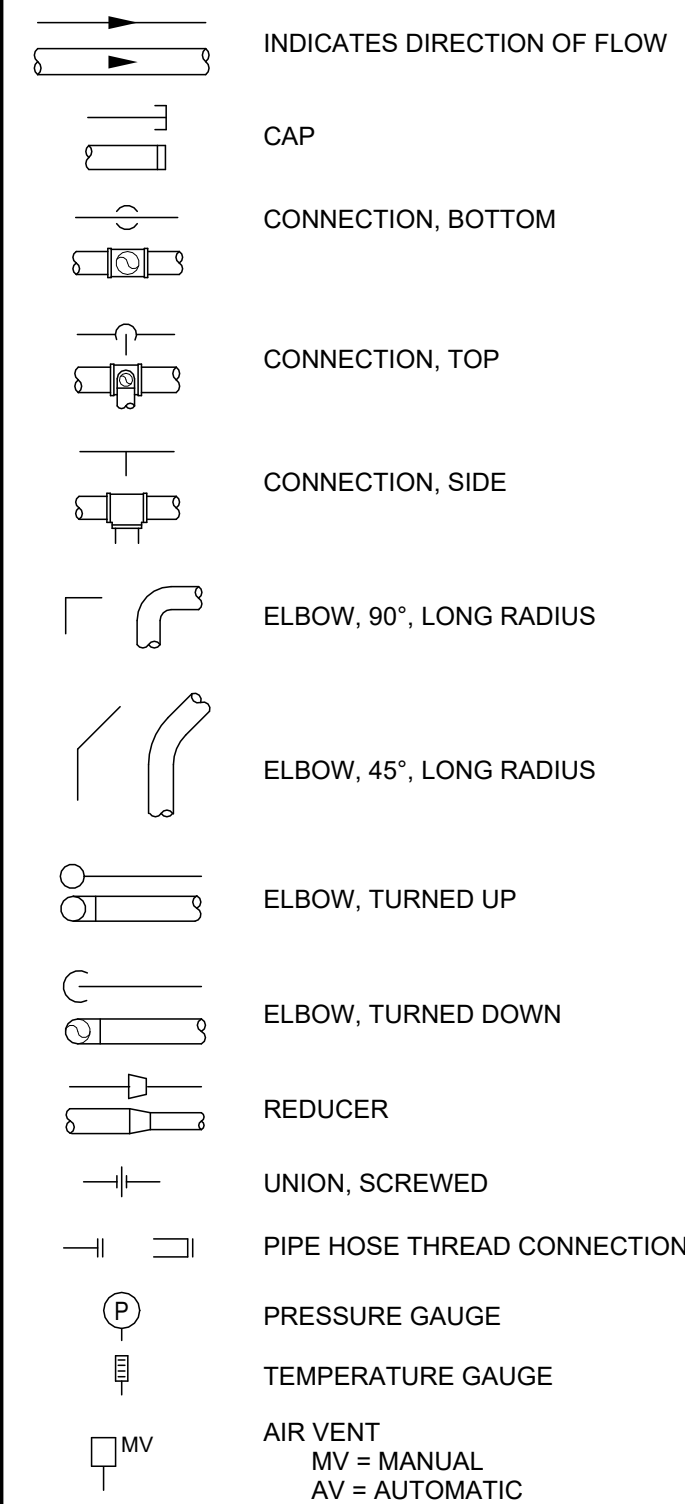
SAFETY DEVICES

- WIRED DIRECTLY TO EQUIPMENT STARTER W/ MANUAL RESET
- SD** DUCTWORK SMOKE DETECTOR - RELAY & LOW VOLTAGE WIRING TO FAN CONTROLLER BY T.C.
- P** 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

PIPING LEGEND



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EXPIRATION DATE 12/31/2027

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[illegible]

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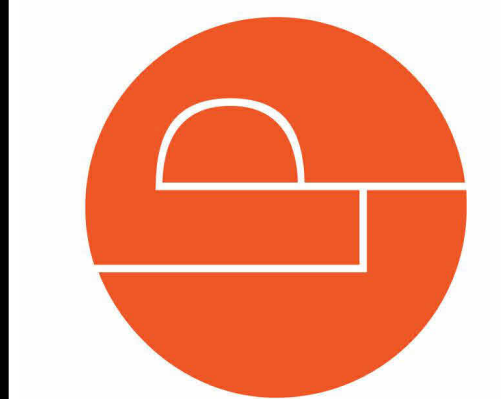
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DRH
DATE:
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LEGENDS, SCHEDULES & NOTES

H0.1

FAN & ROOF VENTILATOR SCHEDULE

BASIS OF DESIGN - GREENHECK					REFER TO DETAIL(S) FOR FANS PROVIDED WITH HOA CONTROLLERS.				
REFER TO SPECIFICATIONS FOR OTHER MANUFACTURERS					FOR CONTROLS & SEQUENCE OF OPERATIONS, REFER TO CONTROLS DIAGRAMS SHEETS.				
VFD DRIVEN MOTORS SHALL BE PROVIDED WITH SHAFT GROUNDING RINGS, VFD DUTY MOTORS.					PROVIDE 14" HIGH ROOF CURB FOR ROOF MOUNTED FANS AND ROOF VENTILATORS UNLESS OTHERWISE NOTED.				
REFER TO FAN INSTALLATION DETAILS FOR RESPECTIVE MOUNTING TYPE.									
TAG	SERVICE	AREA SERVED	DESCRIPTION	MODEL NUMBER & SIZE	ROOF OPENING (L x W)	CAPACITY			
						AIRFLOW (CFM)	E.S.P. (IN. W.C.)	SPEED (RPM)	
EF-1	EXHAUST	MEDICAL ADDITION	ROOF MOUNTED DOWNBLAST CENTRIFUGAL FAN	#G-100-VG	12.5" SQ.	450	0.25	1443	
EF-2	EXHAUST	DENTAL EQUIP.	ROOF MOUNTED DOWNBLAST CENTRIFUGAL FAN	#G-100-VG	12.5" SQ.	450	0.25	1443	

- 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

MAX AIR PRES. DROP INCL. HW COIL. 0.6" S.P.

CV - CONSTANT VOLUME

VV- VARIABLE VOLUME

DESIGN BASIS- PRICE MODLE SDV

MAX. NC 25, WITH 10db ROOM ABSORPTION 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						ENTERING AIR TEMP. (DEG. F):			55		
UNIT TYPE S = SERIES FLOW MODEL FDC						MAX AIR PRESS. DROP INCL. COIL			0.6" S.P.		
MAX NC 25, WITH 10bd ROOM ABSORPTION 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
					CAPACITY (KW)	V/PH	UNIT TYPE	AIR FLOW (CFM)	MOTOR HP	V/PH	
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.			STANDARD WHITE BAKED ACRYLIC FINISH UNLESS NOTED OTHERWISE.		
EQUAL BY TITUS, TUTTLE & BAILEY			DIFFUSERS SHALL BE 4-WAY THROW UNLESS OTHERWISE NOTED OR INDICATED ON DRAWINGS.		
MAXIMUM SOUND LEVEL AT NC-25 AT INDICATED AIR FLOW.			VERIFY CEILING TYPE AND PROVIDE APPROPRIATE MOUNTING FRAME WHERE REQUIRED.		
BALANCING DAMPER GENERALLY PROVIDED IN DUCT, NOT AT DEVICE.					
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
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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.	
VFDECM		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.	
VFDECM		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.

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STATE OF OHIO

JEFFERY D. ZELINSKI

63822

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EXPIRATION DATE 12/31/2027

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	Number	Description
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WARREN COUNTY CAREER CENTER

MEDICAL ACADEMY

3625 OH-48, Lebanon, OH 45036

PROJECT NO: PROJECT #263306.00

CHECKED BY: DRH

DRAWN BY: DRH

DATE: 09.15.2026

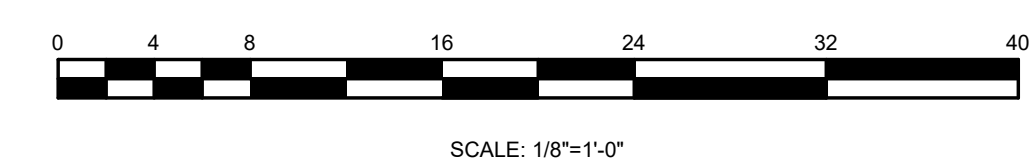
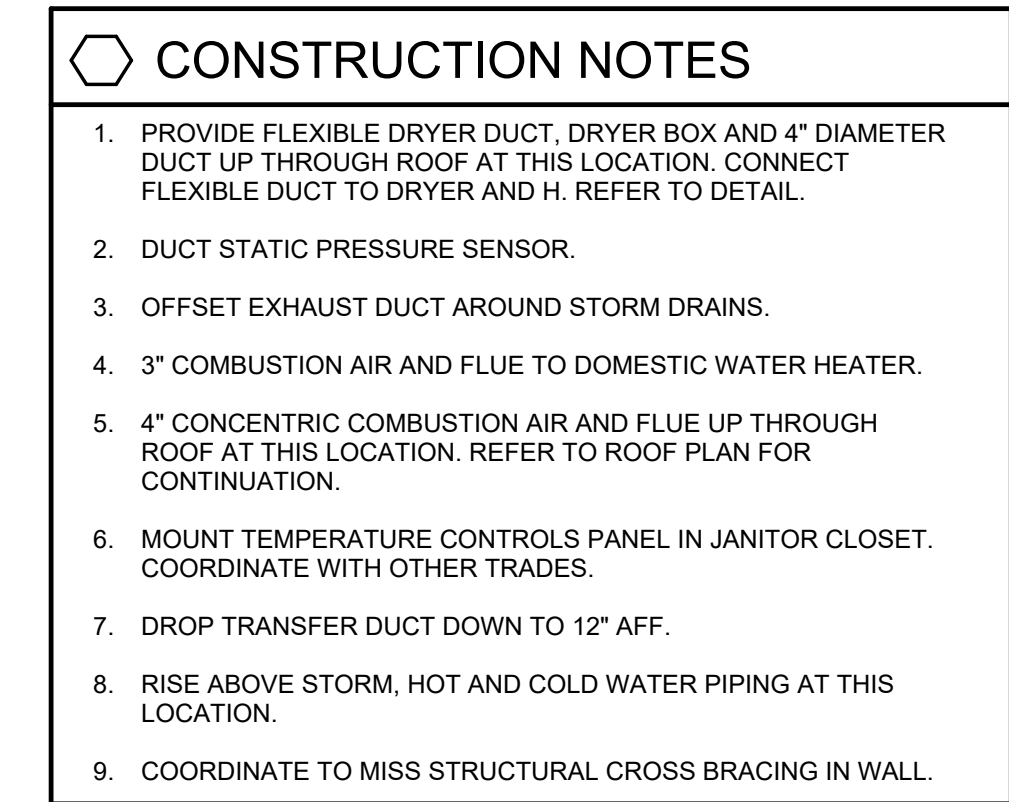
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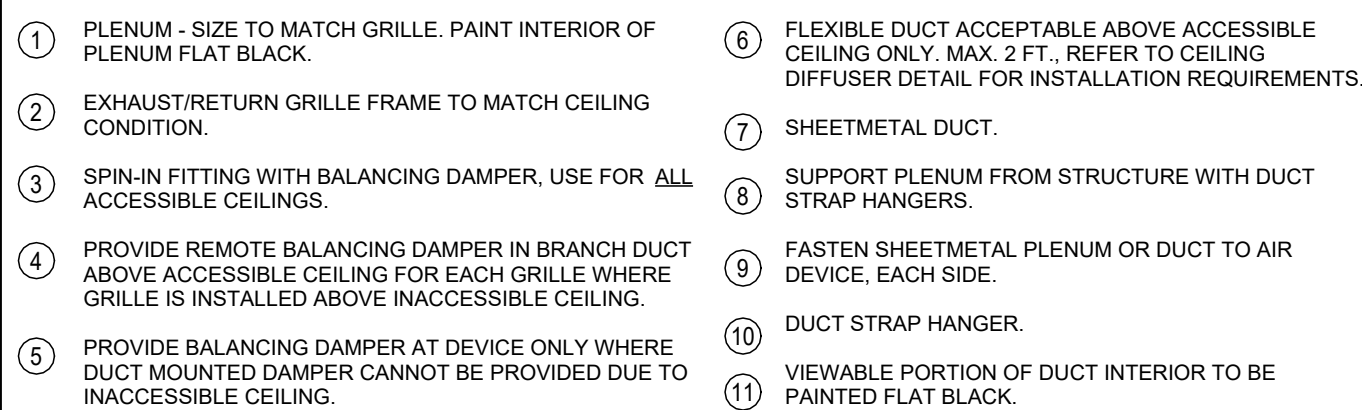
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Levin Porter Architects Inc. 681 Levan Porter Architects

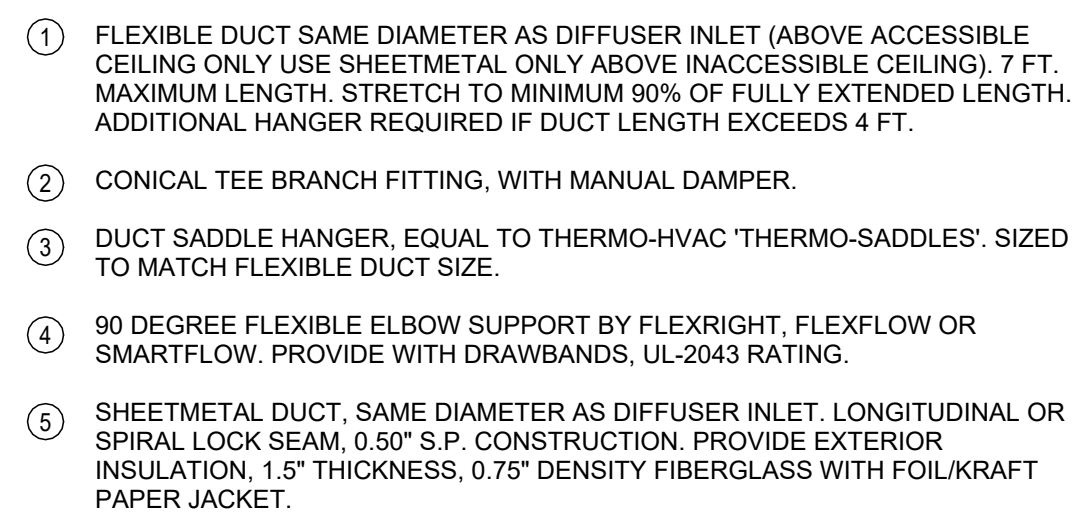
EQUIPMENT & MATERIAL SCHEDULES

H0.2

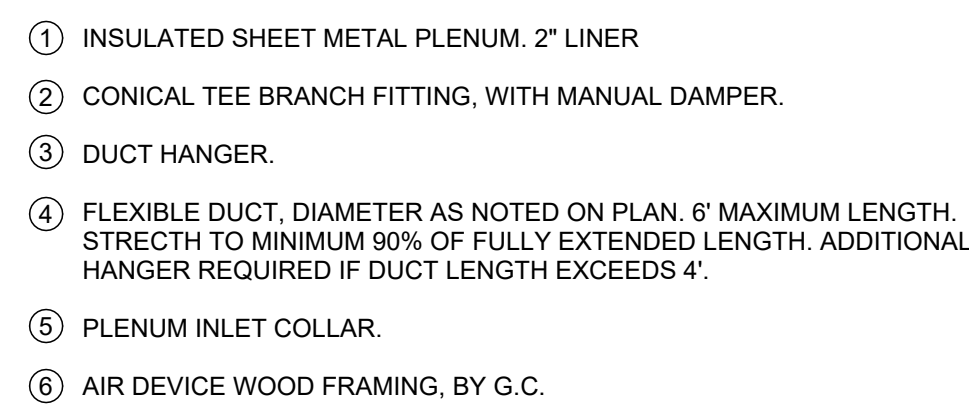




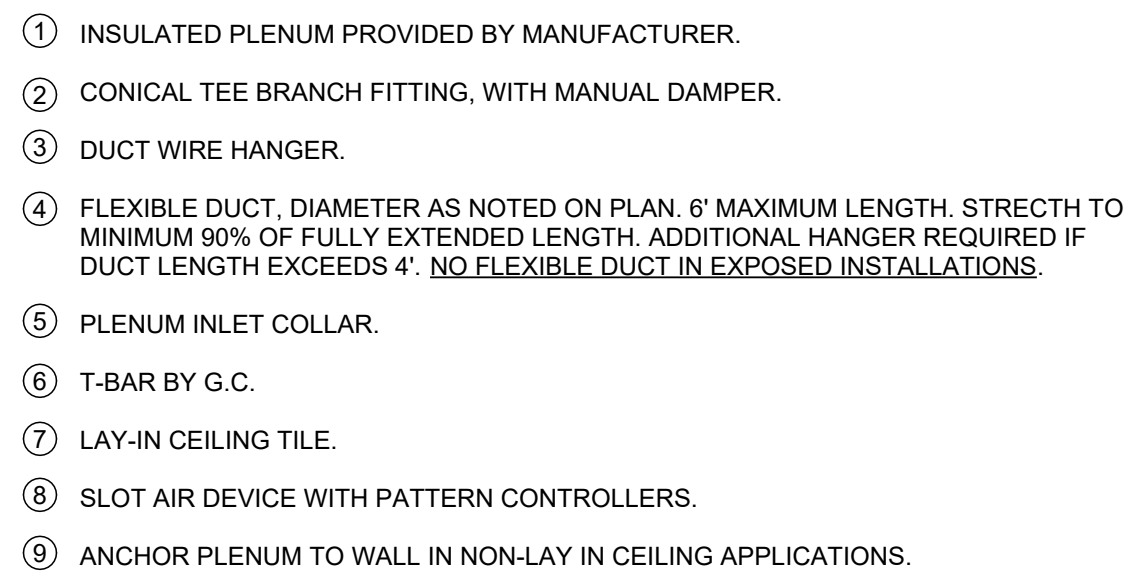
#	EXHAUST/RETURN GRILLE - DUCTED
	N.T.S.



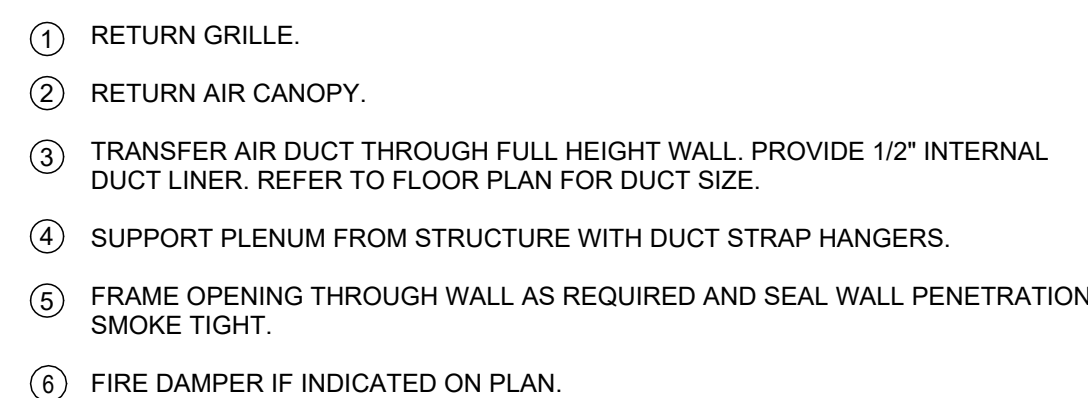
3	SUPPLY AIR DEVICE	CEILING DIFFUSER
	N.T.S.	



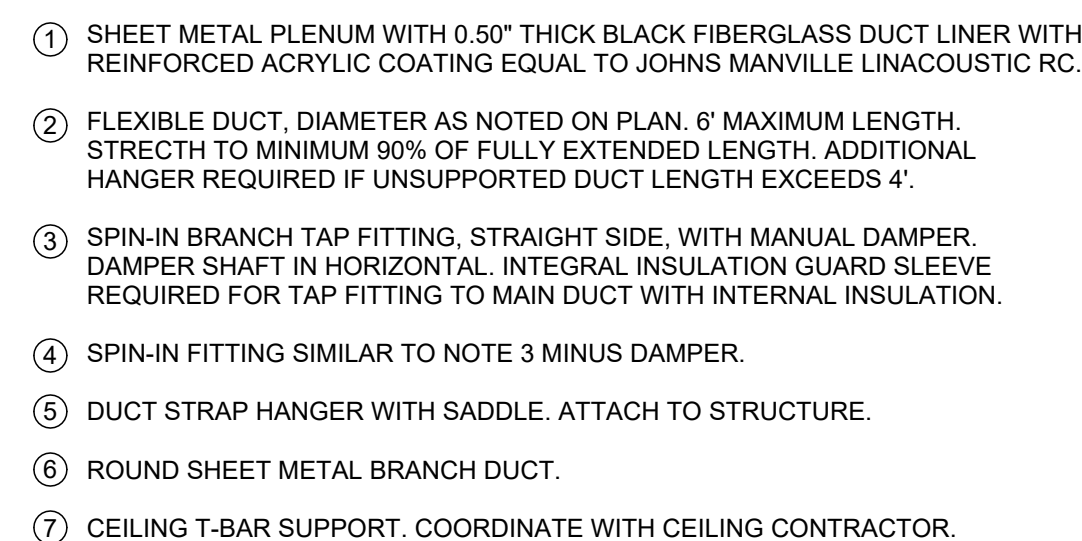
#	SUPPLY AIR DEVICE	SLOT DIFFUSER, DRYWALL CEILING
	N.T.S.	



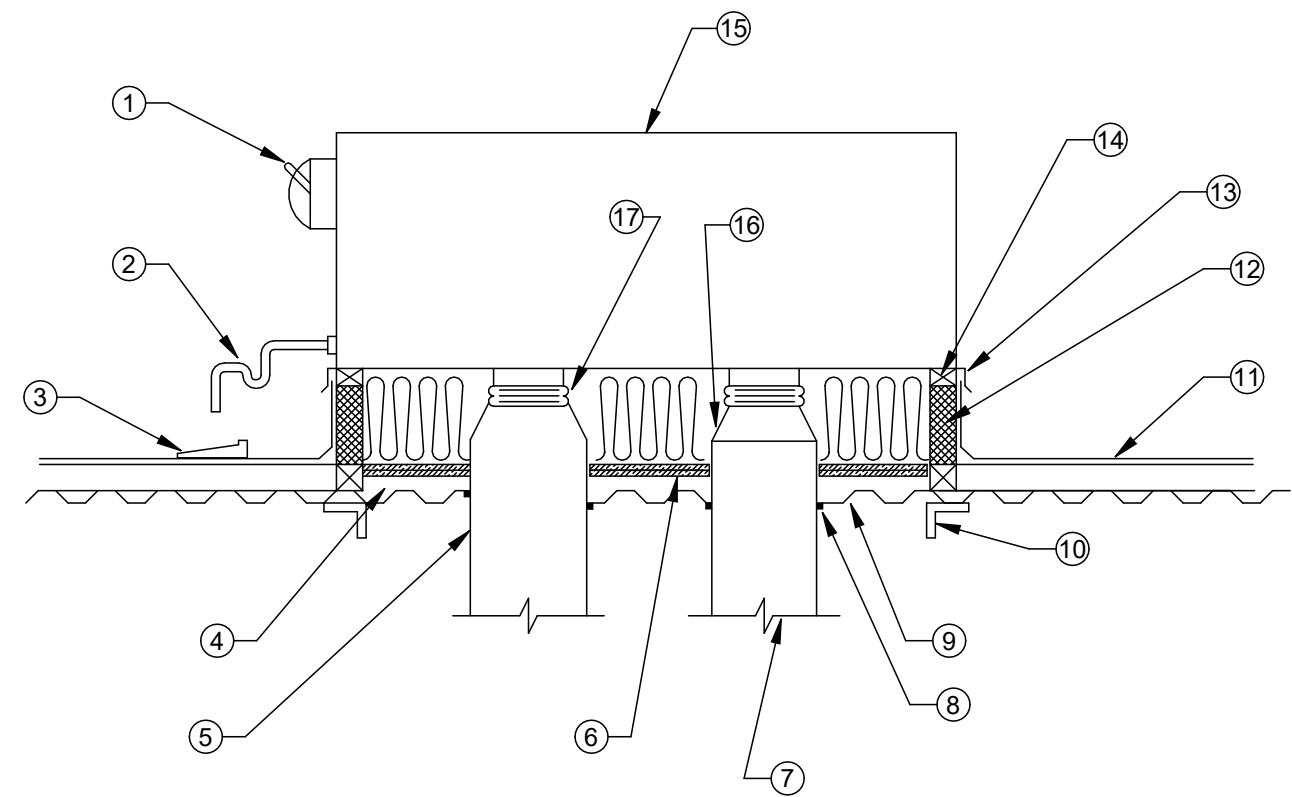
#	SUPPLY AIR DEVICE	SLOT DIFFUSER, LAY-IN CEILING
	N.T.S.	



#	TRANSFER AIR GRILLES	RETURN AIR CANOPY PLENUM
	N.T.S.	

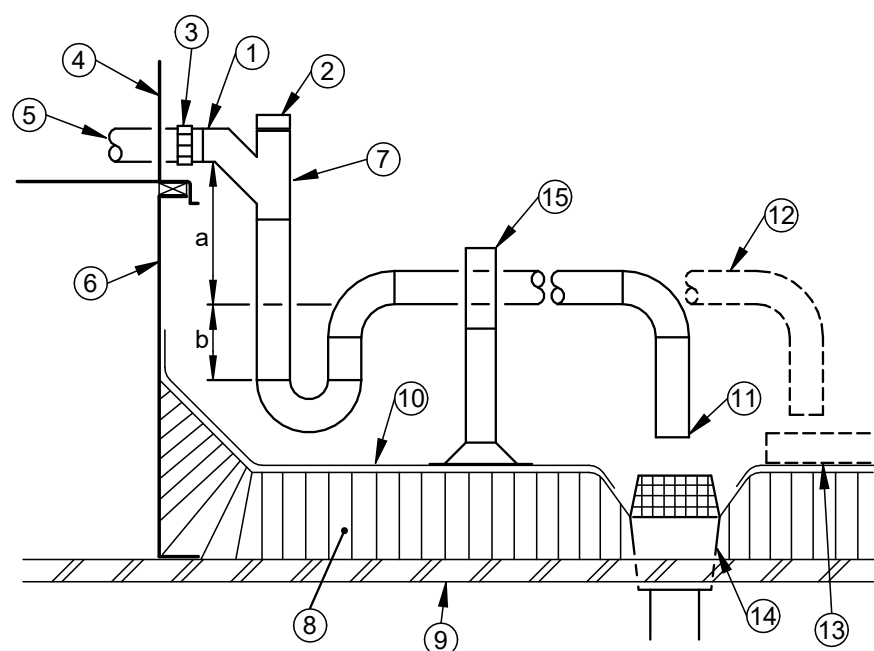


#	TRANSFER AIR GRILLES	DUCTED
	N.T.S.	



- 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.

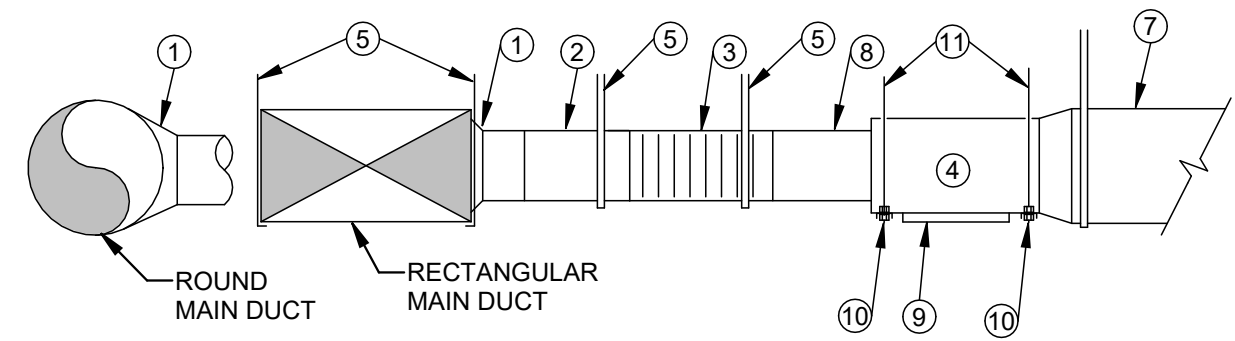
1 ROOFTOP UNIT
N.T.S. TYPICAL MOUNTING DETAIL



- 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.

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

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



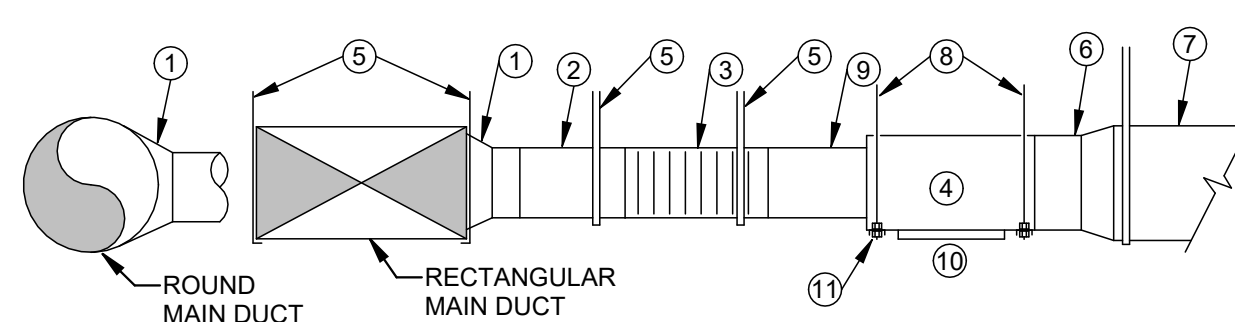
- CONICAL TEE BRANCH FITTING.
- ROUND SHEET METAL BRANCH DUCT, LENGTH AS REQUIRED. INSULATED.
- INSULATED FLEXIBLE DUCT, 4" MAXIMUM LENGTH. STRETCH TO MINIMUM 90% OF FULLY EXTENDED LENGTH.
- FAN POWERED VAV AIRFLOW CONTROL UNIT.
- DUCT HANGER.
- TRANSITION.
- LOW PRESSURE SUPPLY DUCT.
- 24" LONG SHEETMETAL 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

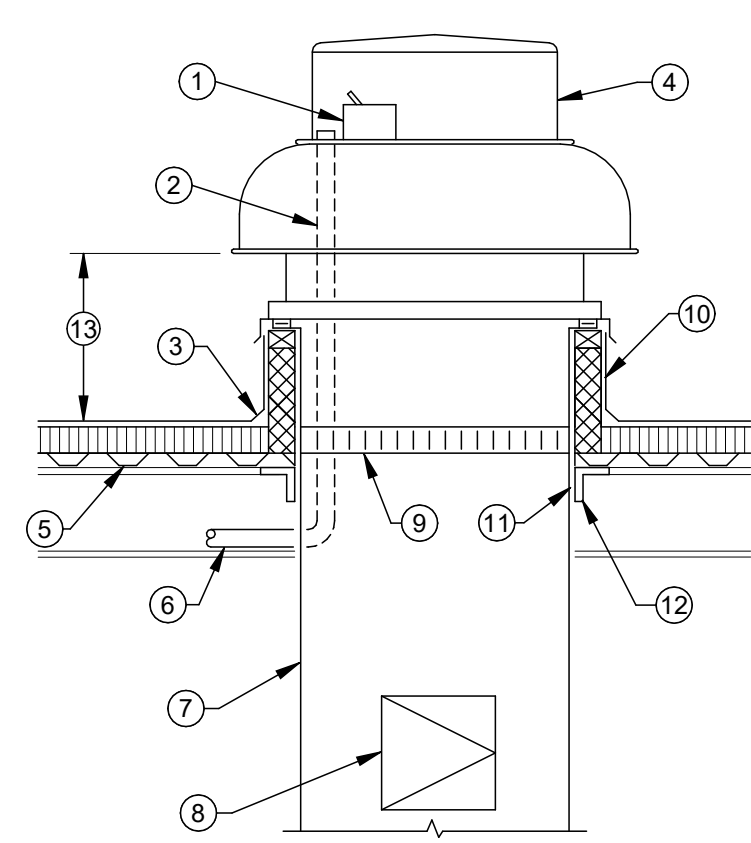


- CONICAL TEE BRANCH FITTING.
- ROUND SHEET METAL BRANCH DUCT, LENGTH AS REQUIRED. INSULATED.
- INSULATED FLEXIBLE DUCT, 4" MAXIMUM LENGTH. STRETCH TO MINIMUM 90% OF FULLY EXTENDED LENGTH.
- AIR TERMINAL UNIT.
- DUCT HANGER.
- ELECTRIC REHEAT COIL.
- LOW PRESSURE SUPPLY DUCT.
- GALVANIZED STEEL CABLE.
- 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.

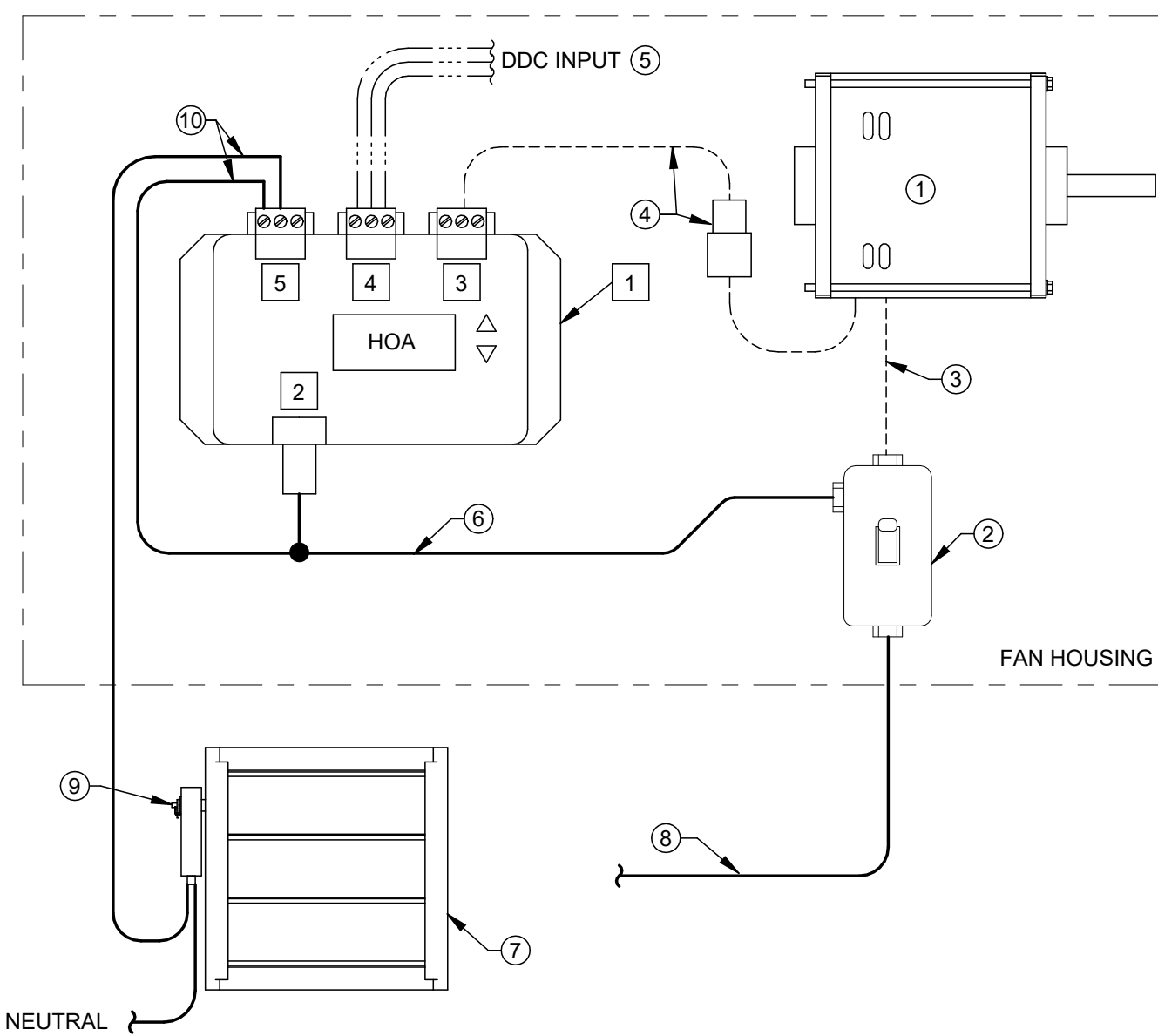
MARK DESIGNATIONS AS SHOWN ON DRAWINGS ON ALL TERMINAL UNITS WITH 2" HIGH PAINTED STENCIL LETTERING.

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
09/15/2026		
Bld / Permit Set		

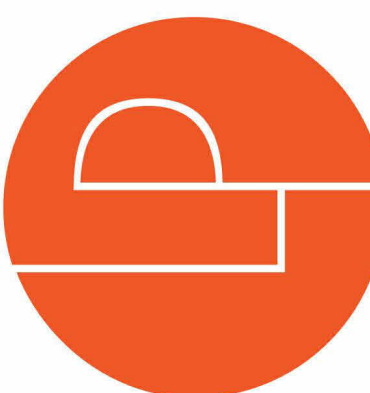
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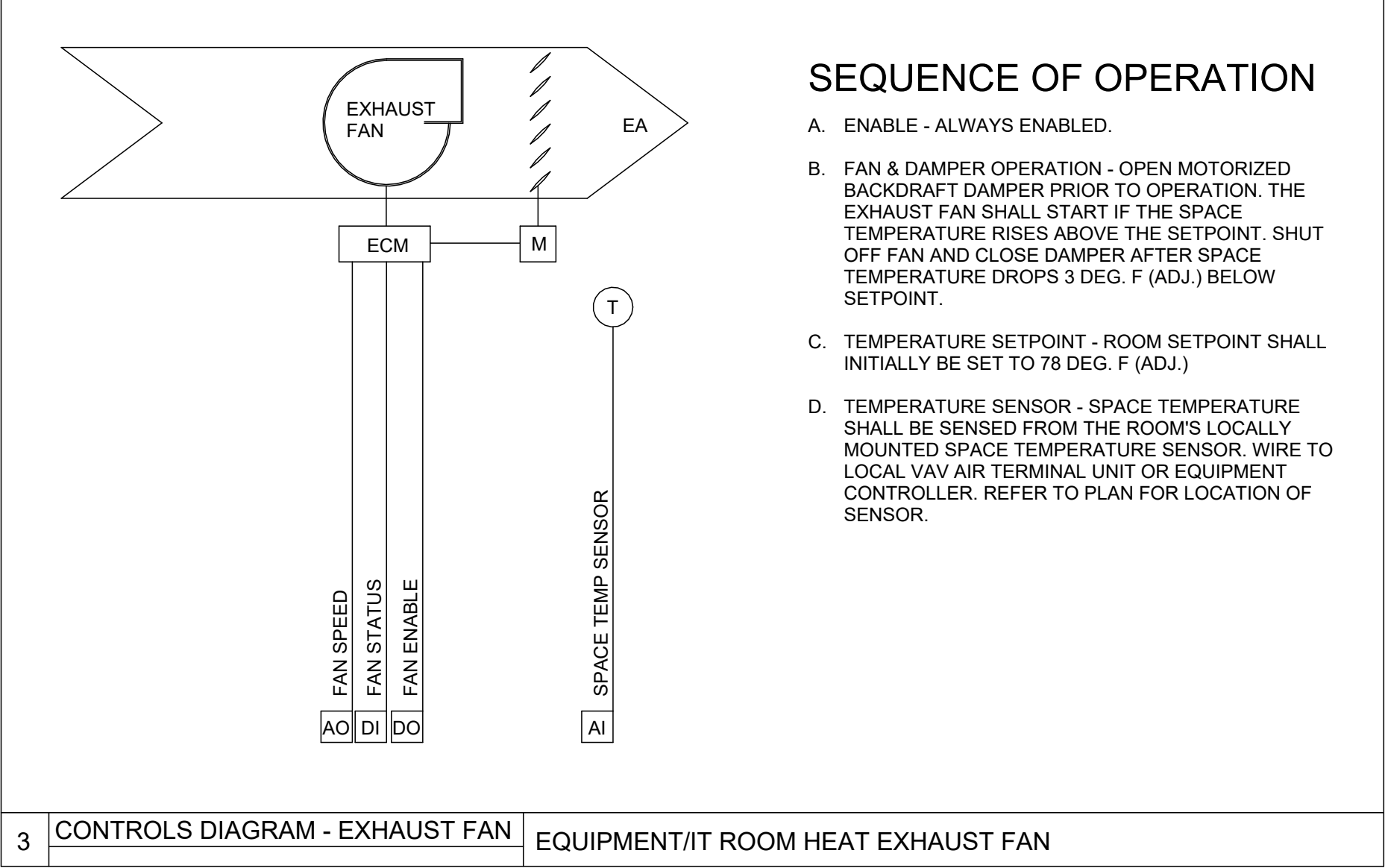
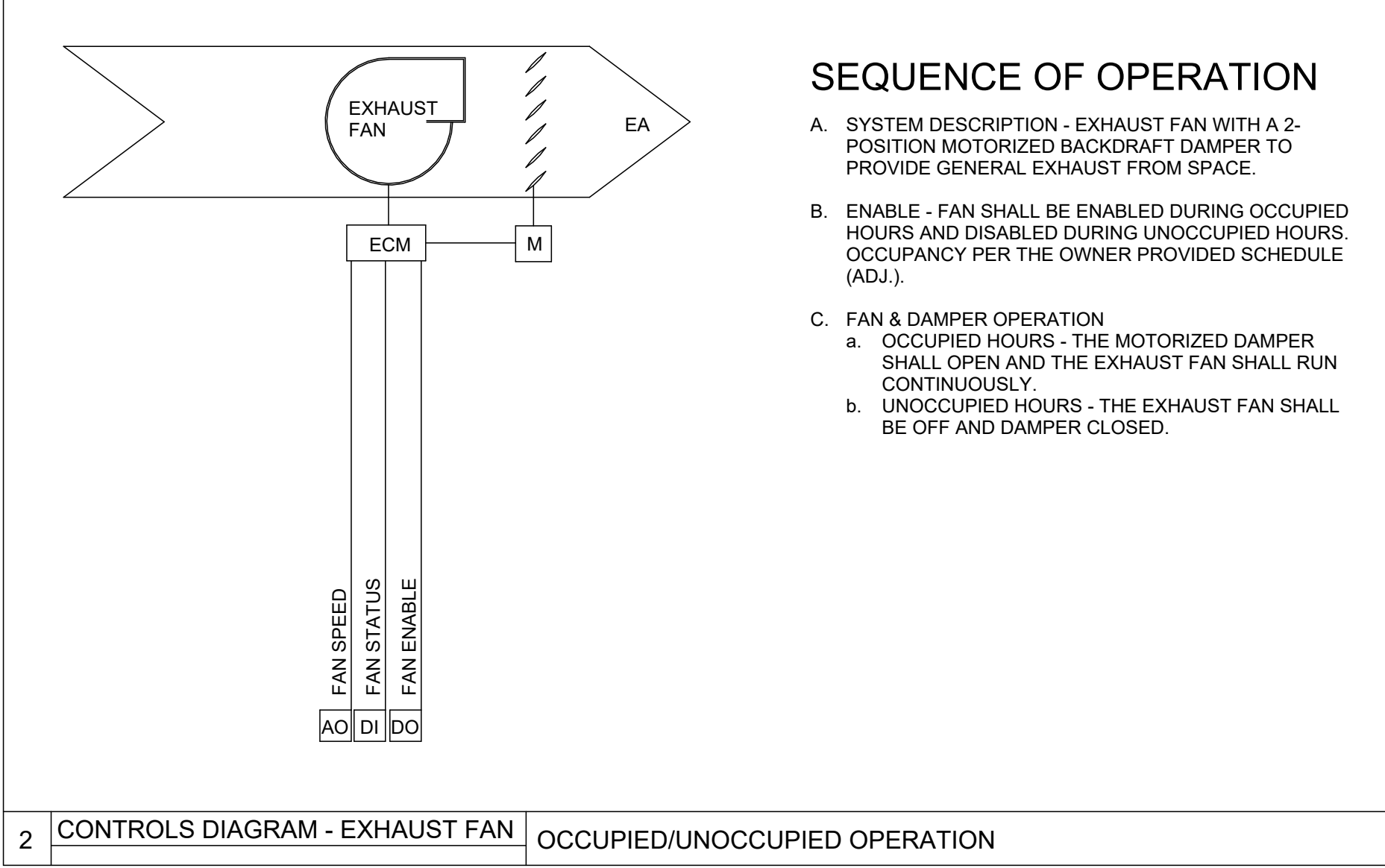
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DRH
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Levin Porter Associates Inc. dba Levin Porter architects



DETAILS - EQUIPMENT

H3.3



A. THE FOLLOWING POINTS SHALL BE MONITORED AND ALARMED AT THE MONITORING CONSOLE AND AS OTHERWISE SPECIFIED HEREIN. THEREIN, IN ADDITION TO POINTS REQUIRED FOR OPERATIONAL CONTROL.

B. POINT DESCRIPTIONS

- a. IT ROOM, DENTAL EQUIPMENT TEMPERATURE SENSORS, ALARM AT 90 DEG. F. (ADJ).
- b. HIGH/LOW TEMPERATURE ALARMS ON ALL DDC TEMPERATURE SENSORS WITH OFF-NORMAL MESSAGES.
- c. OUTSIDE AIR HUMIDITY (ANALOG, NO ALARM).
- d. CURRENT SENSING RELAYS - PROVIDE FOR:
 - 1. RTU - SUPPLY AIR FAN
 - 2. RTU - COMPRESSORS
 - 3. EXHAUST FANS
 - 4. COORDINATE REQUIREMENTS FOR ECM EQUIPMENT.
- e. T, C. TO PROVIDE DDC MONITORING VIA CAT 6 CABLE OF THE PLUMBING CONTRACTOR'S HOT WATER DIGITAL MIXING VALVE. COORDINATE REQUIREMENTS. VALVE IS LOCATED IN THE JANITOR CLOSET. REFER TO SHEET P4.1.
- f. D. WHEN INTERFACING WITH EQUIPMENT PROVIDING REMOTE ANALOG INPUT OR RECEIVING ANALOG OUTPUTS TO THE DDC SYSTEM, WHEN INTERFACING, THE SYSTEM REQUIRES THE INSTALLATION OF EXTERNAL RELAYS AT THE EQUIPMENT BEING MONITORED. COORDINATE ALL REQUIREMENTS SUCH AS RANGE, SIGNAL, CONTACTS AND LOGIC INTERFACE WITH OWNERS. IMPEDANCE WITH THE SUPPLIER OF THE EQUIPMENT BEING MONITORED.
- g. E. DIAL OUT ALARMS - DDC SYSTEM SHALL BE CAPABLE OF INITIATING DIAL OUT ALARM MESSAGE TO PAGERS, TELEPHONE OR INTERNET WHENEVER THE SYSTEM DETECTS AN ALARM. COORDINATE LIST OF DESIRED ALARMS AND INTERFACE WITH OWNERS. IMPEDANCE WITH NOTIFICATION EQUIPMENT WITH THE SCHOOL DISTRICT.

[illegible]

ULTANTS

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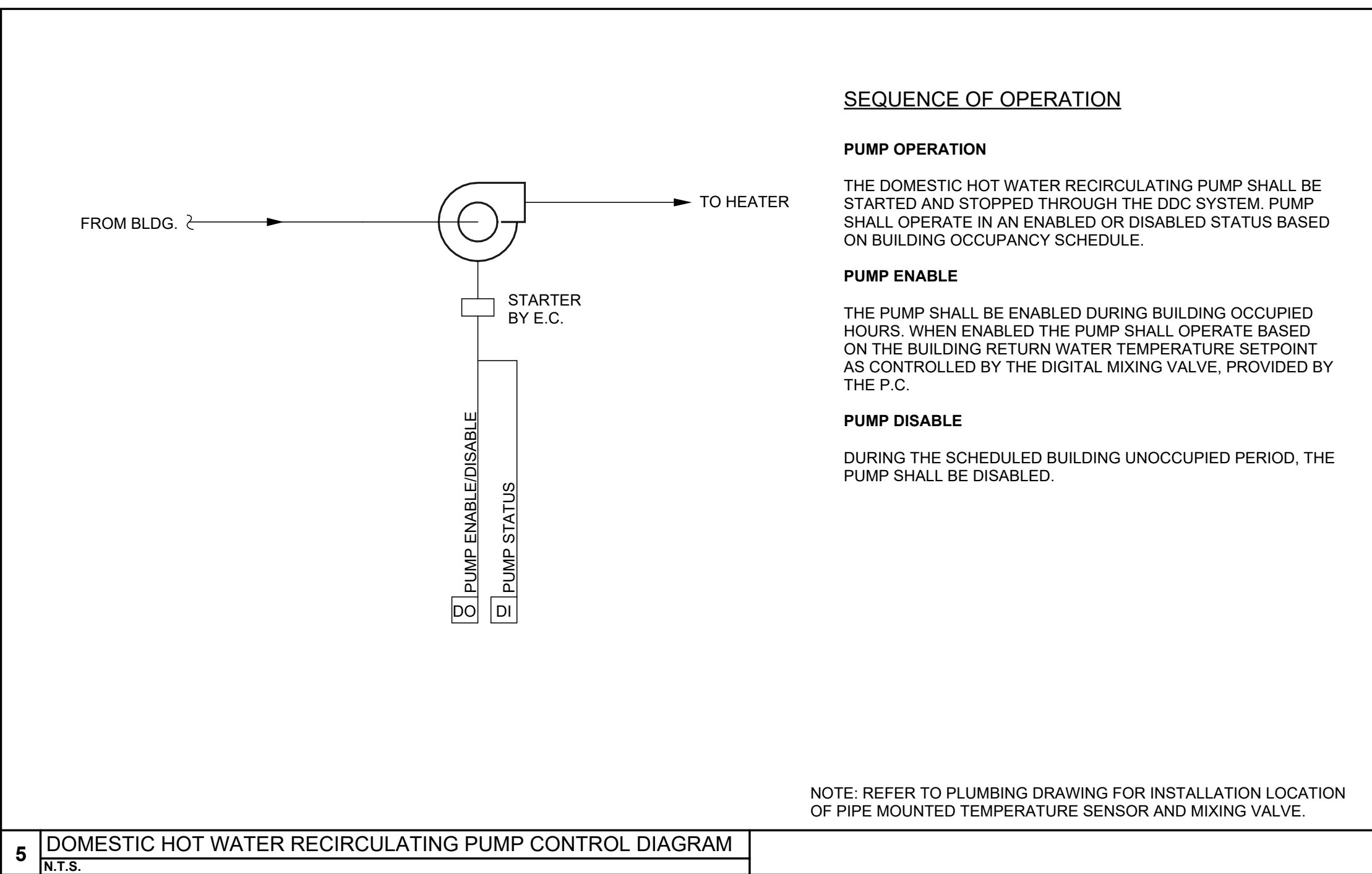
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CENTER
MEDICAL ACADEMY**

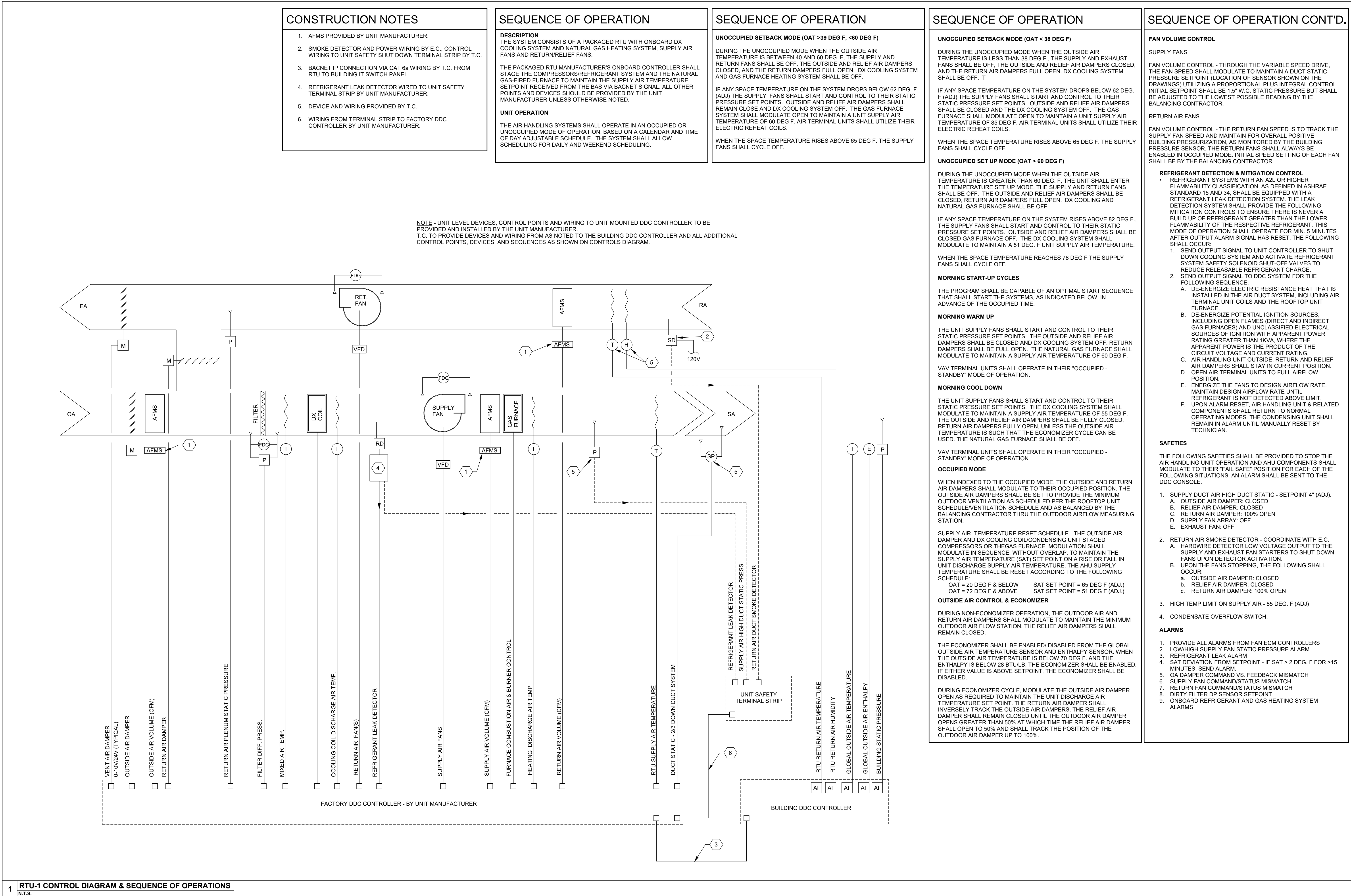
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 Levin Porter Associates Inc. d/b/a Levin Porter Architects



TEMPERATURE
CONTROLS

H4.1





NOTE - UNIT LEVEL DEVICES, CONTROL POINTS AND WIRING TO UNIT MOUNTED DDC CONTROLLER TO BE PROVIDED AND INSTALLED BY THE UNIT MANUFACTURER.
T.C. TO PROVIDE DEVICES AND WIRING FROM AS NOTED TO THE BUILDING DDC CONTROLLER AND ALL ADDITIONAL CONTROL POINTS, DEVICES AND SEQUENCES AS SHOWN ON CONTROLS DIAGRAM.

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STATE OF OHIO

JEFFREY D. ZELINSKI

63822

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

REVISIONS :

Number	Description	Date
01	12/20/25	

PRINTINGS :

Bld / Permit Set	

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MEDICAL ACADEMY

3625 OH-48, Lebanon, OH 45036

PROJECT NO: PROJECT #263306.00
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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	19,430 cfm	Vps	System primary airflow from air handler; this may differ from the sum of primary airflow to zones
Cleaned Air Rate (Location A1)	0.943	Ev	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/5Pr
	CFM	Voz	Zone outdoor airflow
	2,500	Vou	Uncorrected outdoor air intake, = D*1/8p*Pr <5Ra*Az, cfm (multiple-zone systems)
	0.129	Xs	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	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; 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 removers; aerosol propellant; insecticide			0.173611111	400	Chronic	Cal EPA CREL (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 CREL (June 2016)		
Phenol	plastics			0	10	Chronic	AgB8 LCI		
Tetrachloroethylene	cleaning products		gasoline, asphalt	0.034013605	35	Chronic	Cal EPA CREL (June 2016)		
Toluene	adhesives (building and auto/craft); contact cement; solvent; heavy duty cleaners; inks; cosmetics			0.794716981	300	Chronic	Cal EPA CREL (June 2016)		
1,1,1-trichloroethane	paints; cleaning products; glues		gasoline	0.027322404	1,000	Chronic	Cal EPA CREL (June 2016)		
Xylene, total	paints and coatings; adhesives and cements; solvent; print cartridges		Combustion byproduct	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)		
Crone			Combustion byproduct	80.50405	137	-	USEPA NAAQS		
Ammonia				0	200	Chronic	Cal EPA CREL (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 Recirculation Air	Zone Unrecirculated (IAQP OA)	Zone Ventilation Efficiency	System IAQP 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 _{ps} (CFM)	RV _z (CFM)	V _{ou} (CFM)	E _v	V _{ot}	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³	lbm/ft³								
Totals:				2,389	30		2,385	2,078	307	0.943	2,652																0.25	0.90	0.03																									
EXERCISE SCIENCE		Classrooms (age 9 plus)	No	2,389	30	0.8	2,385	2,078	307	0.995		7	21	0	1	21	0	2	0	2	0	2	1	356	24	-	0.25	0.90	0.03	3,602	8,367	47	262	13,138	84	1,387	31	882	27	695	-	-	-	-	-									
SURGICAL TECH		Classrooms (age 9 plus)	No	1,576	30	0.8	1,805	1,573	232	1,000		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	-	0.8	1,610	915	135	0.989		8	23	0	1	22	0	2	0	2	0	2	1	358	21	-	0.23	0.89	0.03	3,566	6,084	34	190	6,051	81	1,039	23	620	19	595	-	-	-	-	-									
CLASSROOM		Classrooms (age 9 plus)	Yes	887	30	0.8	1,250	1,054	150	1,031		7	21	0	1	21	0	2	0	2	0	2	1	358	26	-	0.25	0.88	0.03	1,390	3,107	17	97	4,878	31	515	12	318	10	258	-	-	-	-	-									
CONFERENCE		Conference/meeting	Yes	220	8	0.8	614	529	91	1,102		6	20	0	1	19	0	2	0	2	0	2	1	358	30	-	0.28	0.85	0.03	452	771	4	24	768	8	128	3	78	2	64	-	-	-	-	-									
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	358	25	-	0.25	0.89	0.03	2,775	6,339	35	198	9,955	64	1,051	24	646	20	526	-	-	-	-	-									
CLASSROOM		Classrooms (age 9 plus)	Yes	887	30	0.8	1,190	1,037	153	1,029		7	21	0	1	21	0	2	0	2	0	2	1	358	25	-	0.28	0.88	0.03	1,360	3,107	17	97	4,878	31	515	12	318	10	258	-	-	-	-	-									
CLASSROOM		Classrooms (age 9 plus)	Yes	887	30	0.8	1,190	1,037	153	1,029		7	21	0	1	21	0	2	0	2	0	2	1	358	25	-	0.28	0.88	0.03	1,360	3,107	17	97	4,878	31	515	12	318	10	258	-	-	-	-	-									
CLASSROOM		Classrooms (age 9 plus)	Yes	887	30	0.8	1,190	1,037	153	1,029		7	21	0	1	21	0	2	0	2	0	2	1	358	25	-	0.28	0.88	0.03	1,360	3,107	17	97	4,878	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	358	25	-	0.25	0.89	0.03	2,414	5,515	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	358	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	358	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	358	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	1,000		6	19	0	0	18	0	2	0	2	0	2	1	358	23	-	0.23	0.78	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
UNISEX		Restroom	Yes	80	-	0.8	50	44	6	1,000		6	19	0	0	18	0	2	0	2	0	2	1	358	23	-	0.23	0.78	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
STAFF		Office space	Yes	60	0	0.8	50	44	6	1,032		7	22	0	1	21	0	2	0	2	0	2	1	358	23	-	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	1,032		7	22	0	1	21	0	2	0	2	0	2	1	358	23	-	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	175	152	23	1,003		6	19	0	0	18	0	2	0	2	0	2	1	358	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	358	25	-	0.25	0.89	0.03	2,775	6,339	35	198	9,955	64	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	358	25	-	0.25	0.89	0.03	2,775	6,339	35	198	9,955	64	1,051	24	646	20	526	-	-	-	-	-	-	-	-	-					
VESTIBULE		Corridors	Yes	89	-	0.8	200	174	28	1,091		6	20	0	1	19	0	2	0	2	0	2	1	358	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	358	22	-	0.22	0.77	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
STORAGE		Occupiable storage rooms for	Yes	92	0	0.8	50	44	6	0.973		8	23	0	1	22	0	2	0	2	0	2	1	358	20	-	0.23	0.89	0.03	189	322	2	10	321	3	53	1	33	1	27	-	-	-	-	-	-	-	-						
DENTAL EQUIPMENT		Occupiable storage rooms for	Yes	55	0	0.8	25	22	3	0.943		9	24	0	1	23	0	3	0	2	0	2	1	358	15	-	0.22	0.91	0.03	113	193	1	6	192	2	32	1	20	1	16	-	-	-	-	-	-	-	-						

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

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

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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 B1	C16	WATTS SERIES LFVWC, 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, 125 W.S.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(OR 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 DENATURATED 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	ZURN # Z1208-N42	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 13/16"/ 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 # LZSTLBWSLK	--	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 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 DWV 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 CEILINGS 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.S.	SOIL STACK
V.S.	VENT STACK
D.S.	DOWNSPOUT (STORM)
S.D.S.	SECONDARY DOWNSPOUT (STORM)
S.S.O.	SECONDARY STORM OUTLET



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.

REVISIONS :

[illegible]

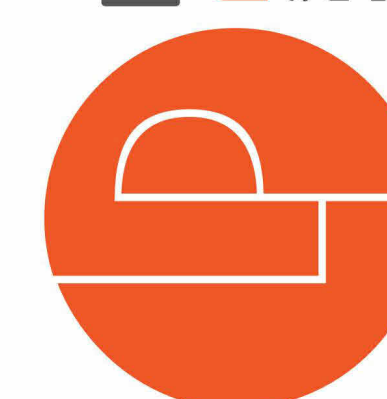
CONSULTANTS

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**WARREN COUNTY CAREER
CENTER
MEDICAL ACADEMY**

PROJECT NO:
PROJECT
#263306.00
CHECKED BY:
J.D.Z.
DRAWN BY:
D.E.G.
DATE:
09.15.2026

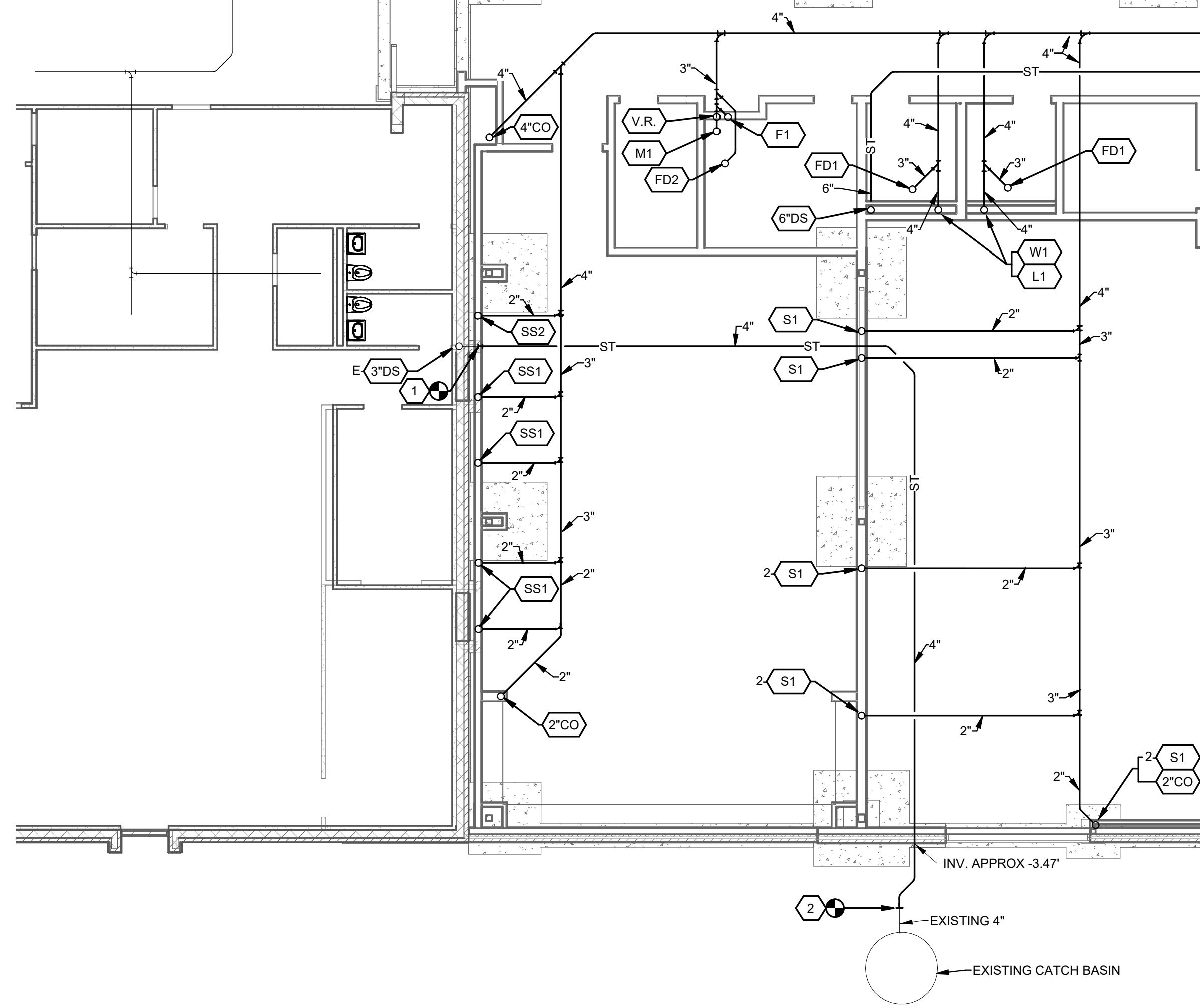
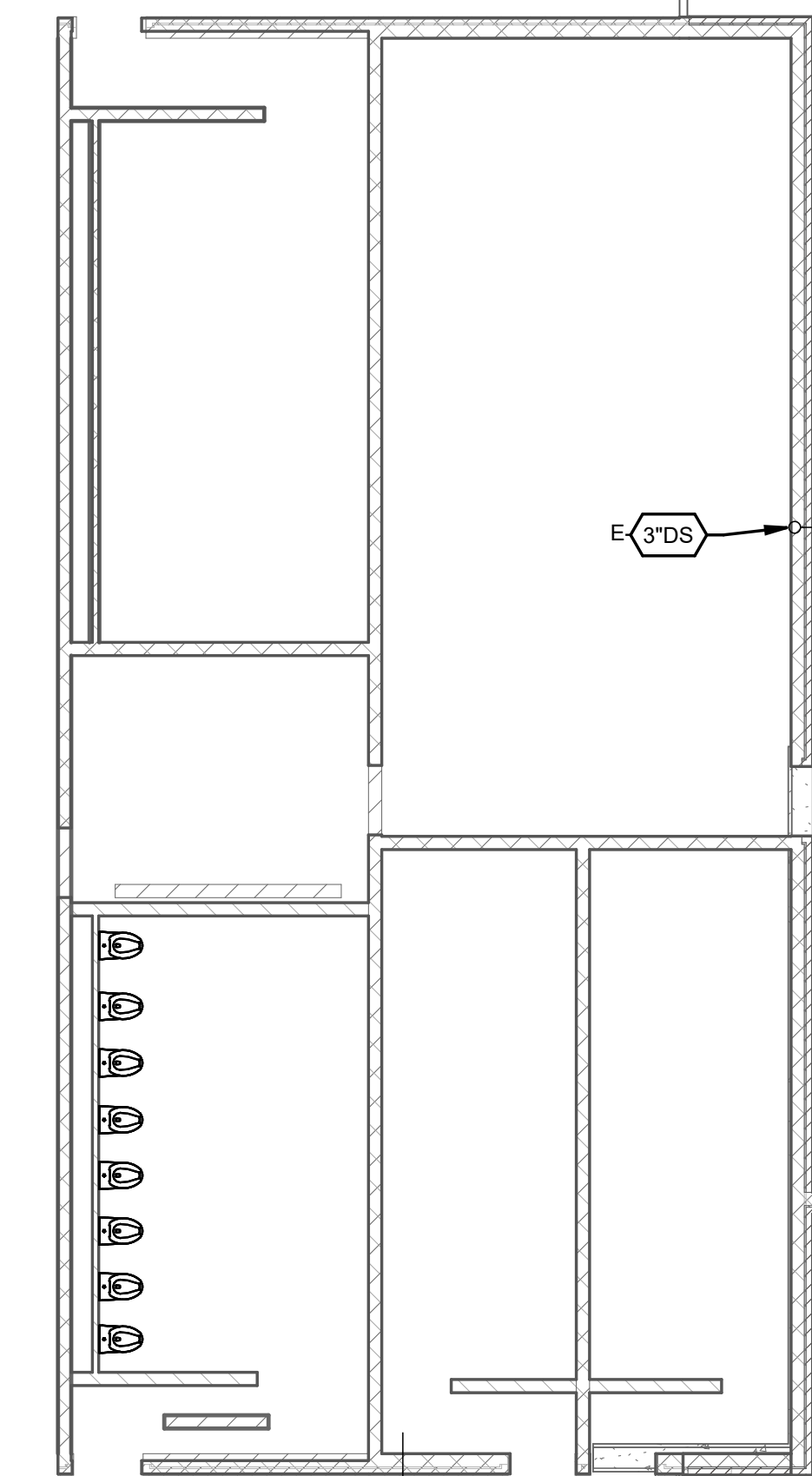
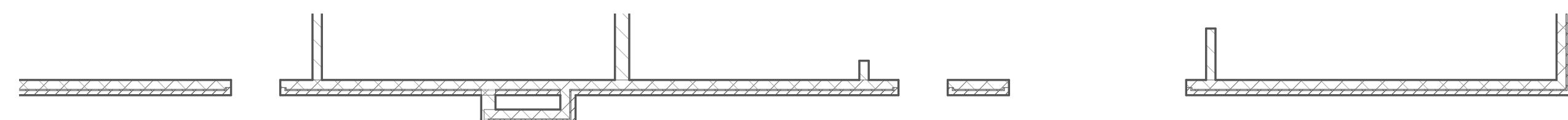
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DEMOLITION PLAN

P1.1

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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

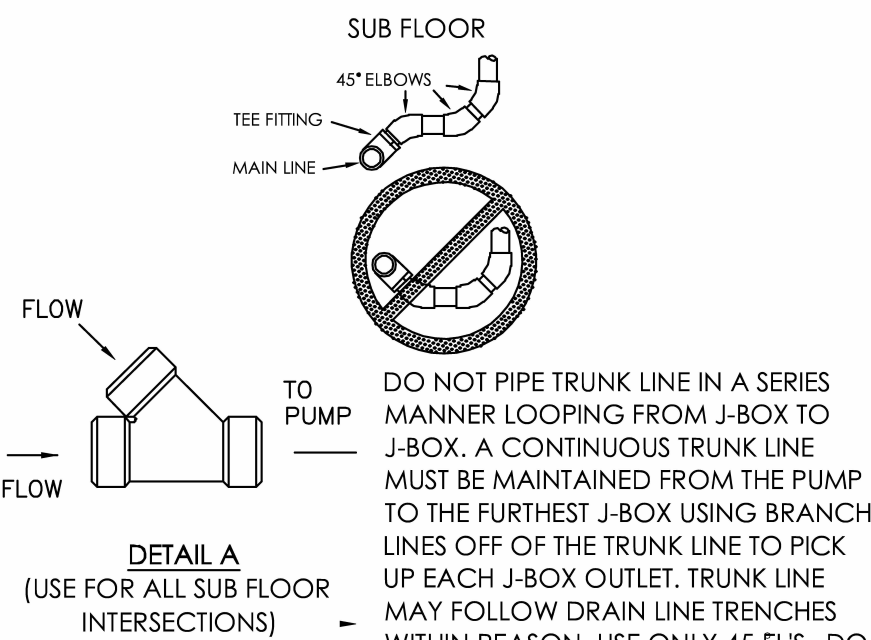
CERTIFY THAT SPECIFIED TESTS AND INSPECTIONS HAVE BEEN PERFORMED AND CERTIFY REPORT RESULTS.

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

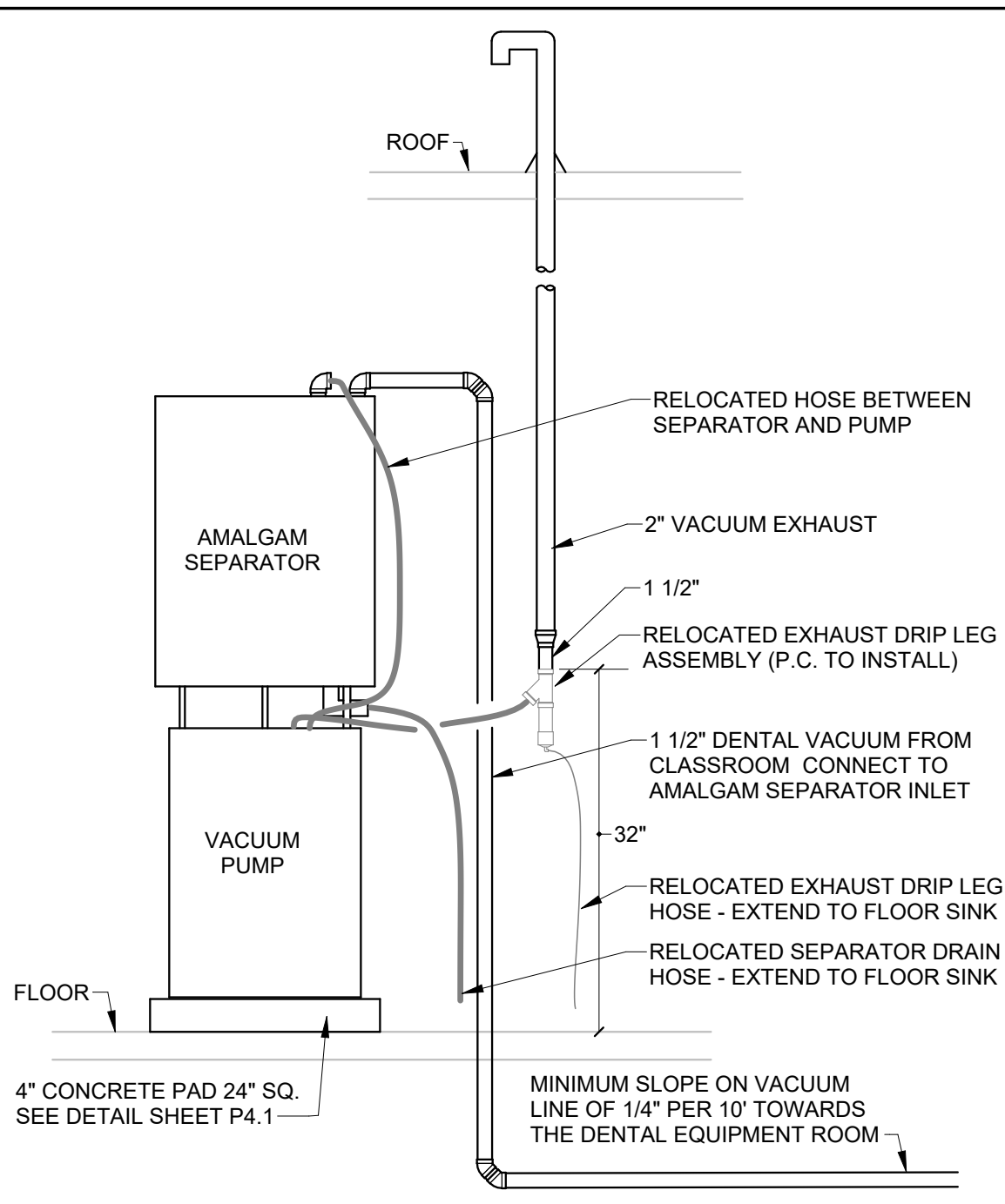
- STUB-UP
TERMINATE VACUUM TRUNK LINE IN MECHANICAL ROOM.
PLUMBING CONTRACTOR TO PROVIDE FPT ADAPTOR ON END OF STUB-OUT FROM FLOOR OR WALL. SIZE OF ADAPTOR TO BE DETERMINED BY TRUNK AND PUMP INTAKE PIPE SIZES.
 - TRUNK LINE(S)
VACUUM TRUNK LINE(S) TO BE SLOPED A MINIMUM OF 1/4" PER 10'-0" TOWARD THE 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

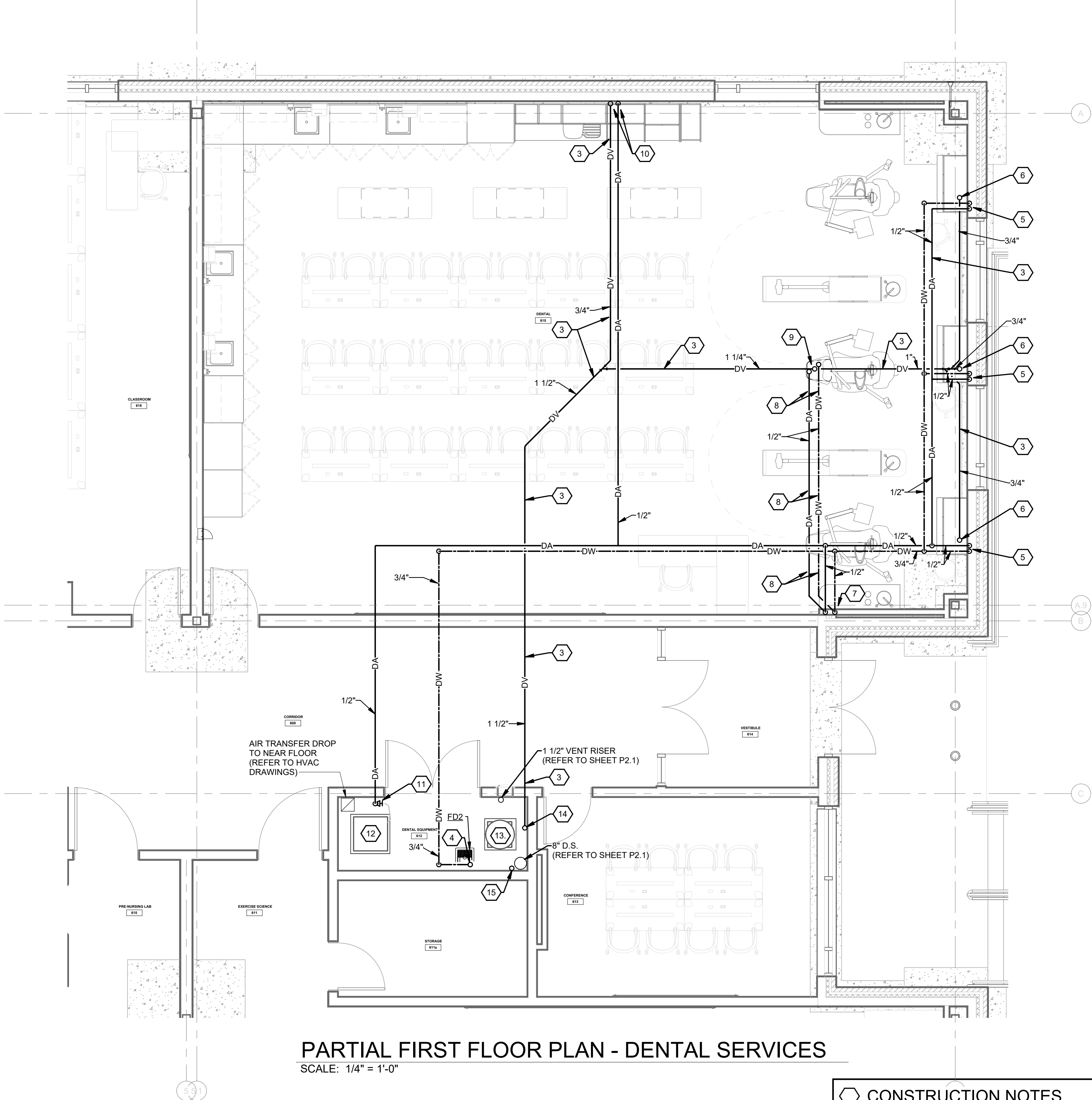
N.T.S.



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

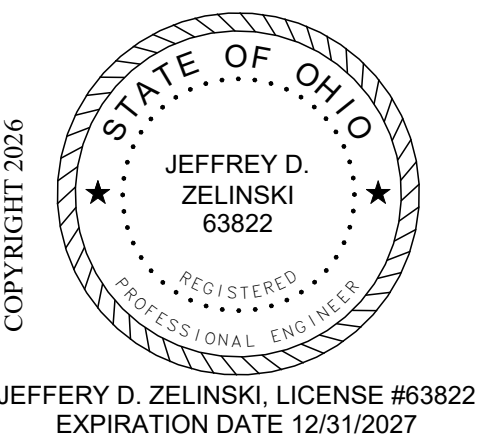
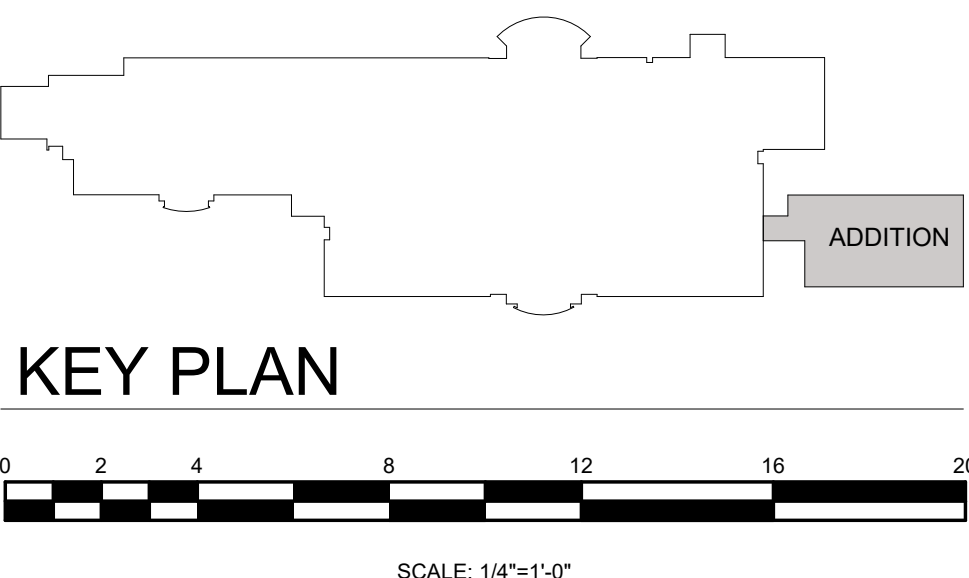
- DV DENTAL VACUUM
- DA DENTAL AIR
- DW DENTAL WATER

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.
- 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.



REVISIONS :

Revision	Number	Description	Date
1	09.15.2025		
2			
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PRINTINGS :

Print	Number	Description
1	09.15.2025	
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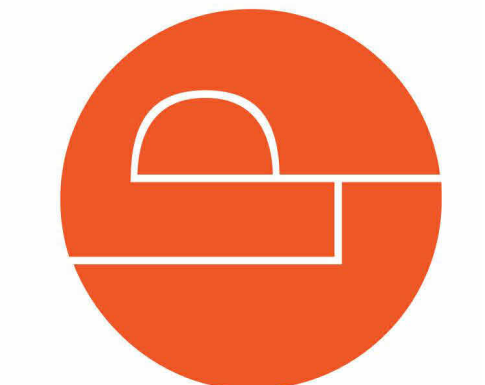
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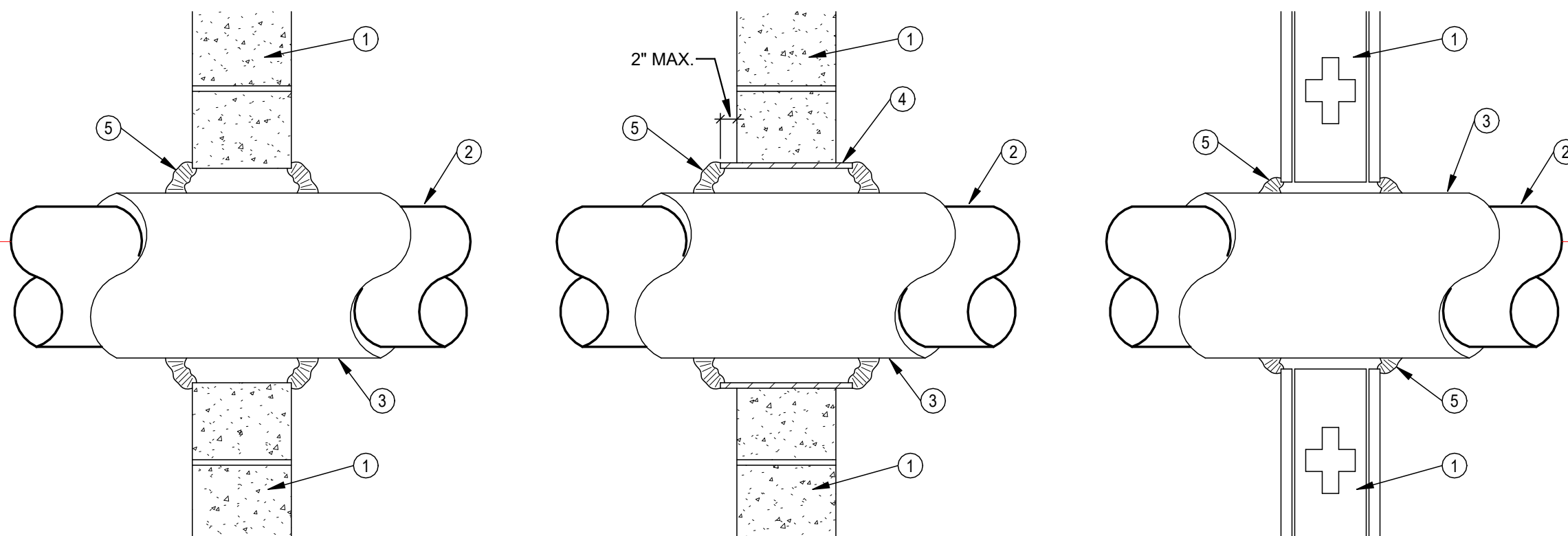
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D.E.G.
DATE:
09.15.2025

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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.

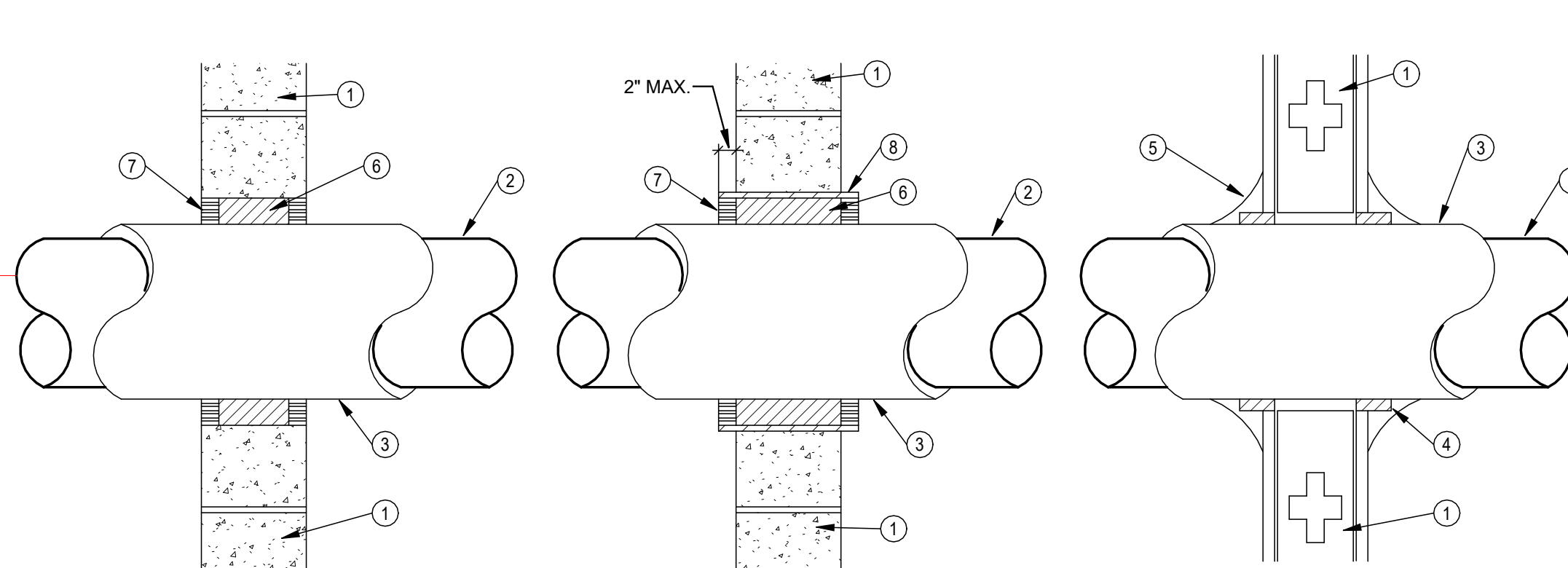
GENERAL NOTE:

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

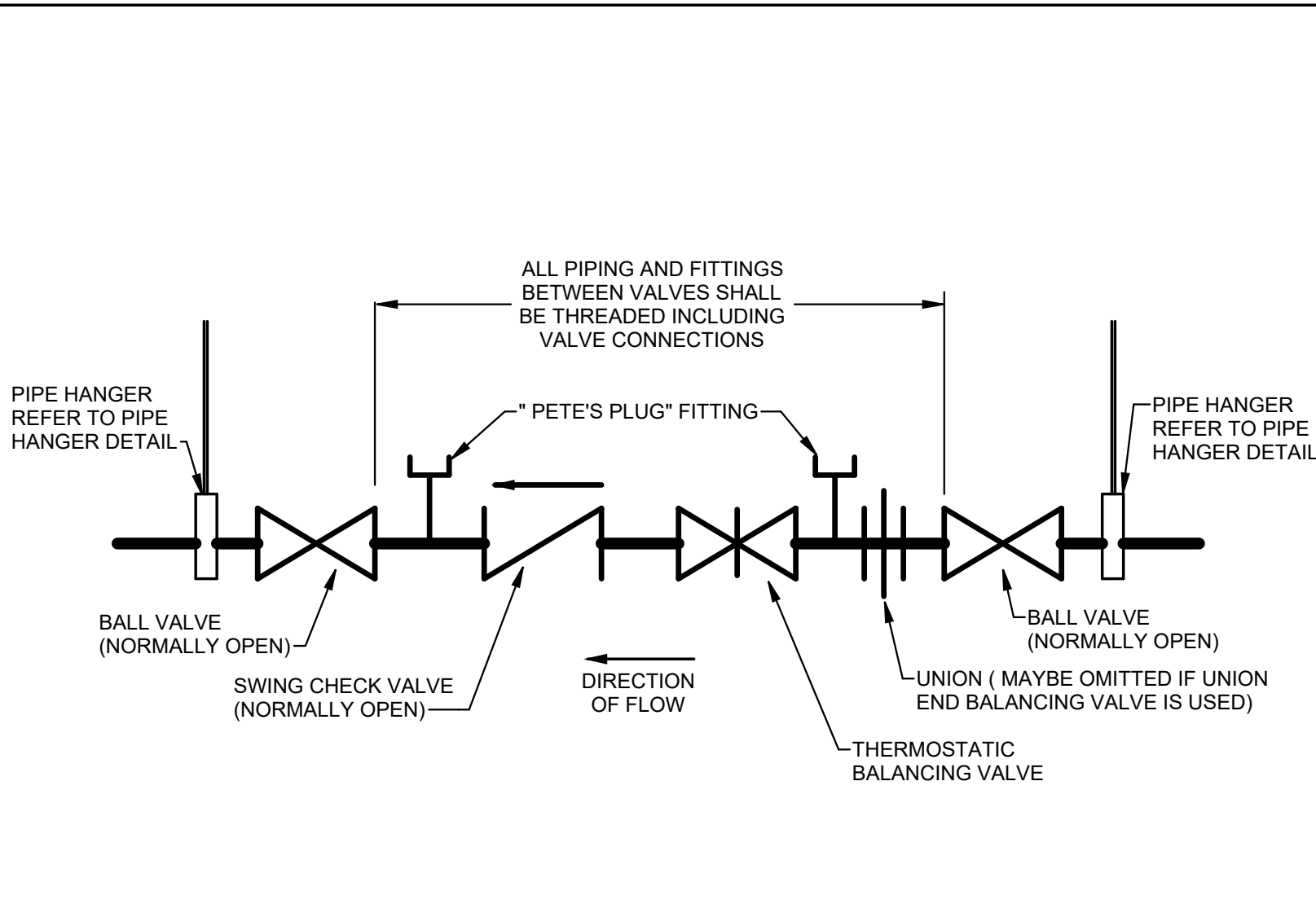
GYPSUM CONSTRUCTION
ALL PIPE SIZES

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.

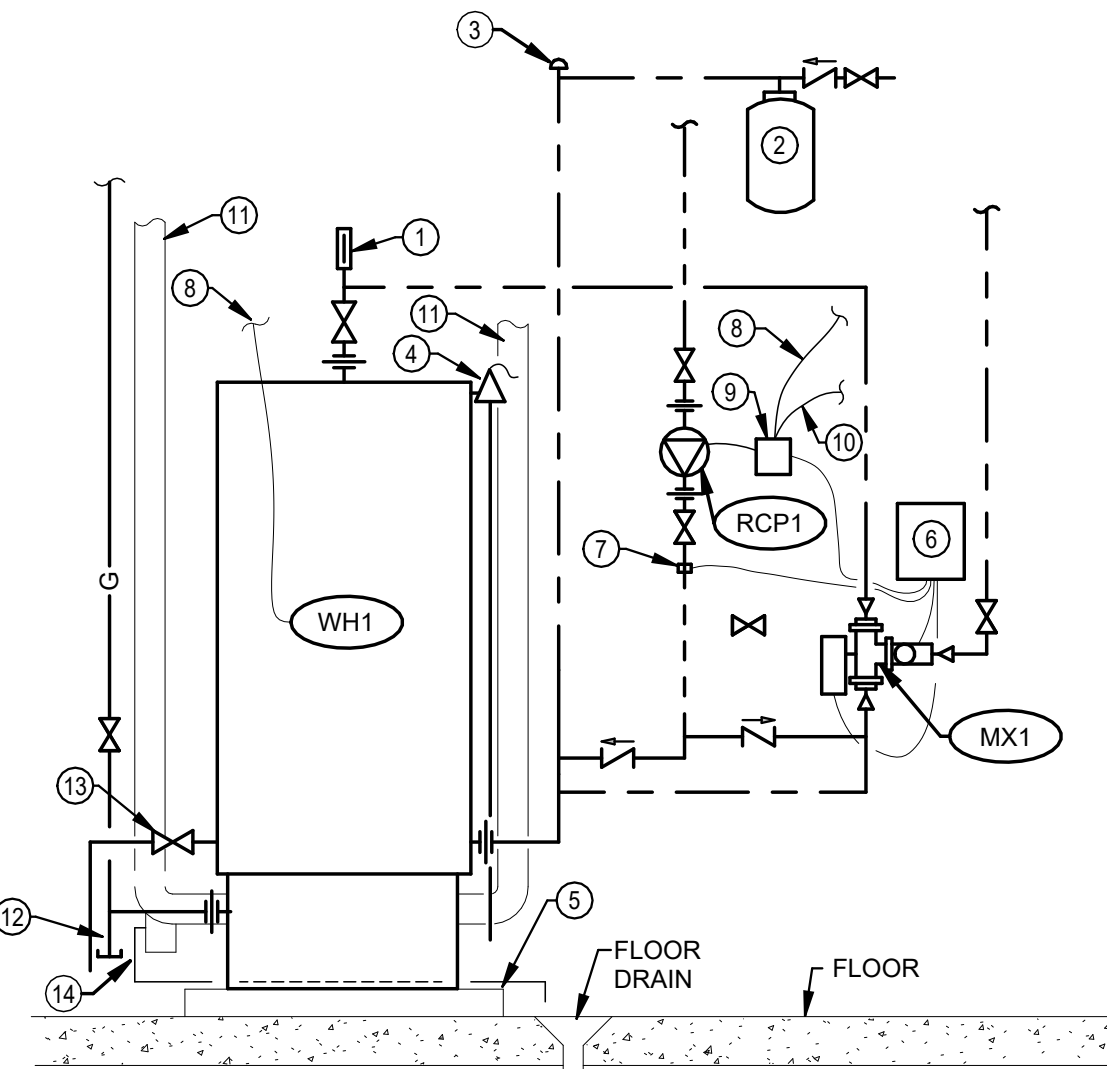
2 PIPE PENETRATIONS THRU FIRE RATED WALL
N.T.S.



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

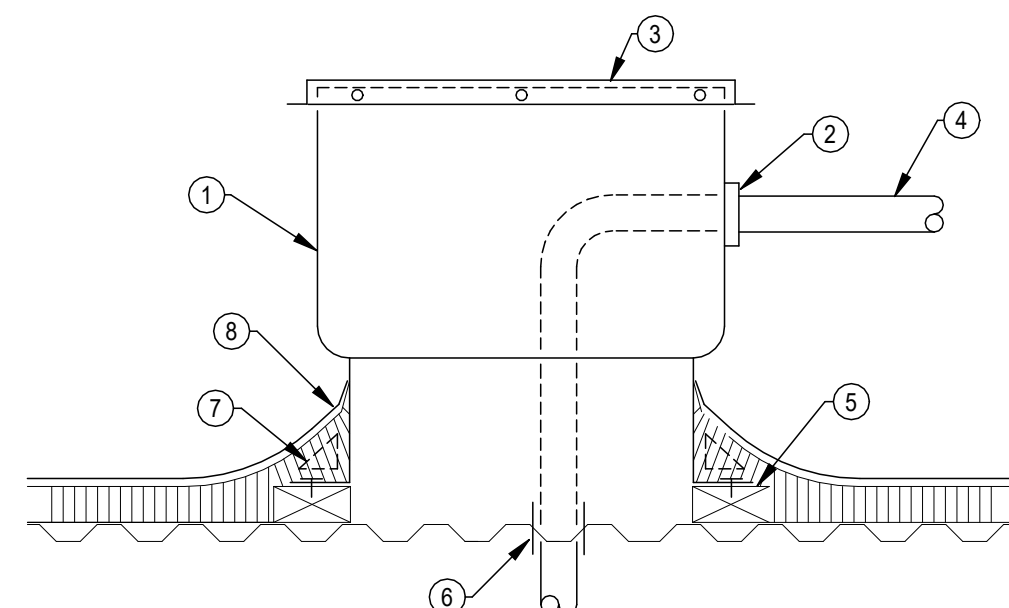
EQUIPMENT NOTES

- (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



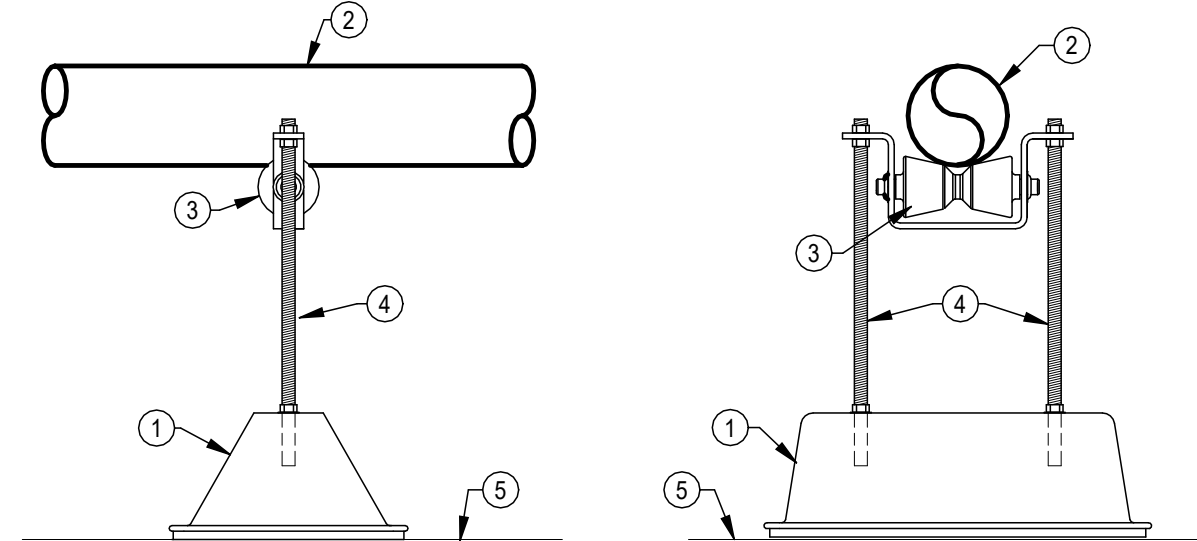
- 1 THERMOMETER, (TYPICAL).
- 2 EXPANSION TANK, AMTROL # ST-12C OR APPROVED EQUAL.
- 3 VACUUM RELIEF VALVE, WATTS LFN36 OR EQUAL, INSTALL ABOVE TOP OF WATER HEATER.
- 4 T&P SAFETY RELIEF VALVE, PIPE DISCHARGE TO FLOOR DRAIN W/ 2" MIN. AIR GAP.
- 5 4" CONCRETE PAD.
- 6 MIXING VALVE CONTROLLER.
- 7 HOT 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.



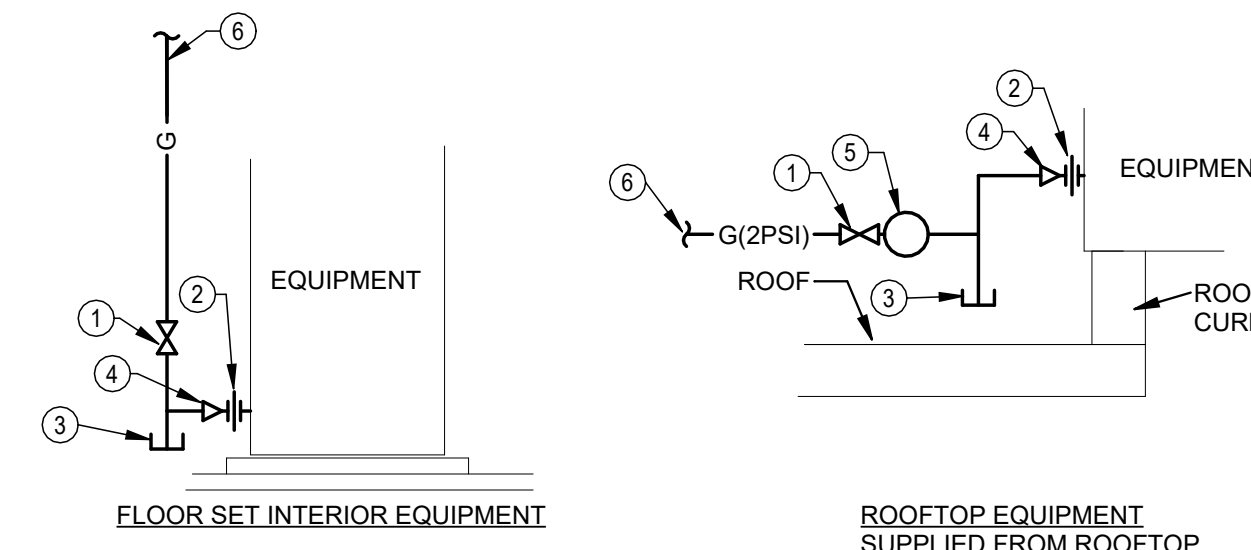
- 1 ROOF PENETRATION HOUSING ASSEMBLY, RPH, "AMI VAULT" WITH EXIT SEALS, POWDER COATED ALUMINUM, PRE-INSULATED HOUSING (R4.3 @ 75F), 14" ROOF CURB.
- 2 EXIT SEAL GASKET - STAINLESS STEEL.
- 3 REMOVABLE TOP W/ S.S. SCREWS.
- 4 PIPING.
- 5 WOOD BLOCKING FASTENED TO ROOF AROUND ENTIRE PERIMETER. ATTACH 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.



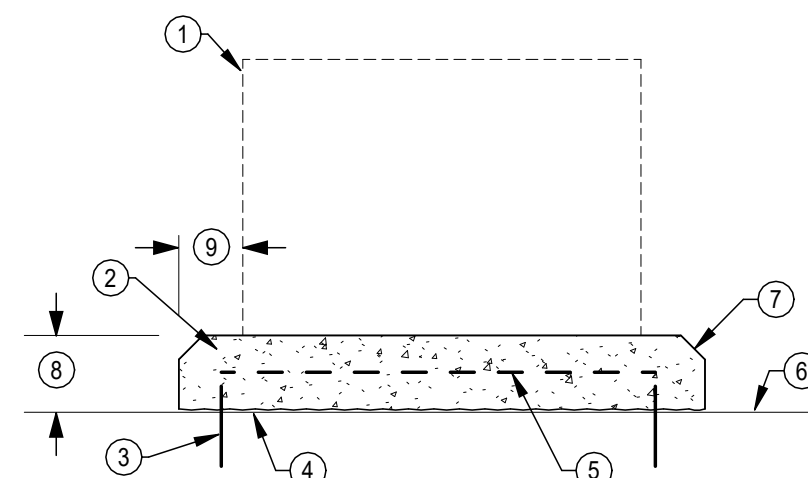
- 1 PIPE SUPPORT ASSEMBLY - NVENT # CADDY PYRAMID RL SERIES OR APPROVED EQUAL, SPACING PER MANUFACTURER'S RECOMMENDATIONS.
- 2 PIPE.
- 3 ADJUSTABLE HEIGHT PIPE SUPPORT WITH POLYMERIC ROLLER.
- 4 ADJUSTABLE THREADED ROD.
- 5 ROOF.

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.

STATE OF OHIO
JEFFREY D. ZELINSKI
63822
JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2027

REVISIONS:
Bld / Permit Set
09.15.2025

PRINTINGS:
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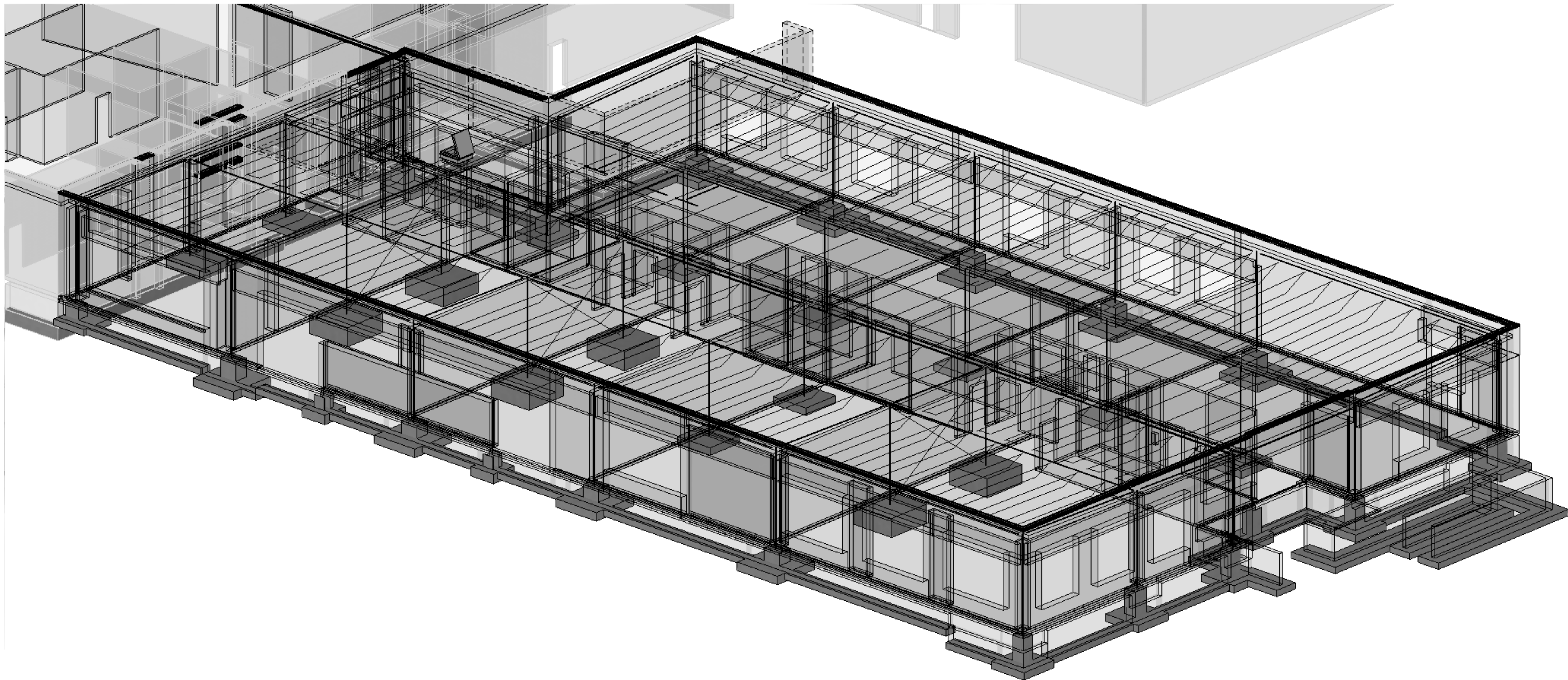
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WARREN COUNTY CAREER
CENTER
MEDICAL ACADEMY
3925 OH-48, Lebanon, OH 45036

PROJECT NO:
PROJECT #263306.00
CHECKED BY:
J.D.Z.
DRAWN BY:
J.D.Z.
D.E.G.
DATE:
09.15.2025

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DETAILS
P4.1



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	INCH	OPP	OPPOSITE (HAND)	STA	STATION
		EE	EACH END	INT	INTERIOR, INTERMEDIATE	OPT	OPTIONAL	STD	STANDARD
B, PL	BASE PLATE	EF	EACH FACE	JST	JOIST	ORIG	ORIGINAL	STIFF	STIFFENER
B, BOT	BOTTOM	EJ	EXPANSION JOINT	JT	JOINT	OSB	ORIENTED STRAND BOARD	STL	STEEL
BLDG	BUILDING	EL	ELEVATION	KP	KIP (1000 POUNDS)	OSL	OUT STANDING LEG	STRUCT	STRUCTURE (AL)
BLK	BLOCK	ELEV	ELEVATOR	KSF	KIPS PER SQUARE FOOT	OWHD	OVERHEAD	SVC	SERVICE
BLKG	BLOCKING	EMBED	EMBEDDED (MENT)	LAT	LATERAL	OVS	OVERSIZED ROUND HOLES	SW	SHORT WAY
BLK	BLOCK	ENGR	ENGINEER	LBS, #	POUNDS	P/C	PRECAST CONCRETE	SYM	SYMMETRICAL
BM	BEAM	EBR	EDGE OF ROOF	LG	LONG	PAF	POWDER ACTUATED FASTENER (S)	T	TOP
BRG	BEARING	EBR	ENGINEER OF RECORD	LL	LIVE LOAD	PEMB	PRE-ENGINEERED METAL BUILDING	T&B	TOP AND BOTTOM
BRK	BRICK	EQ	EQUAL	LLH	LONG LEG HORIZONTAL	PLF	POUND PER LINEAR FOOT	T/	TOP OF
BS	BOTH SIDES	ES	EACH SIDE	LLV	LONG LEG VERTICAL	PLWD	PLYWOOD	TEMP	TEMPERATURE, TEMPORARY
BSMT	BASEMENT	EW	EACH WAY	LNL	LONG SIDE VERTICAL	PNL	PANEL	THD	THREADED
BTWN	BETWEEN	EXP	EXPANSION	LNL	LAMINATED VENEER LUMBER	PREL	PRELIMINARY	THK	THICK (NESS)
		EXT	EXTERIOR	LOC	LOCATION	PROJ	PROJECT	TOS	TOP OF STEEL
C/C	CENTER-TO-CENTER	FAB	FROM ADJACENT BEAM	LSH	LONG SIDE HORIZONTAL	PSF	POUNDS PER SQUARE FOOT	TOSL	TOP OF SLAB
CB	CONCRETE BEAM	FABR	FABRICATE (OR)	LSL	LONG SLOTTED HOLES	PSI	POUNDS PER SQUARE INCH	TOT	TOTAL
CE	CONTINUOUS END	FD	FLOOR DRAIN	LSV	LONG SIDE VERTICAL	PSL	PARALLEL STRAND LUMBER	TYP	TYPICAL
CFWF	COLD FORMED METAL FRAMING	FTE	FINISHED FLOOR ELEVATION	LVL	LONG WAY	QTY	QUANTITY	UN	UNLESS NOTED
CJ	CONTROL JOINT	FIN	FINISHED	LW	LONG WAY	REF	REFERENCE	UNO	UNLESS NOTED OTHERWISE
CLR	CLEAR	FLR	FLOOR	MAS	MASONRY	REINF	REINFORCE (ING), (ED)	V	VERTICAL
CMU	CONCRETE MASONRY UNIT	FND	FOUNDATION	MATL	MATERIAL	REQ	REQUIRED	VERT	VERTICAL
COL	COLUMN	FOM	FACE OF MASONRY	MAX	MAXIMUM	REQD	REQUIRED	VIF	VERIFY IN FIELD
CONC	CONCRETE	FOS	FACE OF SHEATHING	MBR	MEMBER	REV	REVIS (ION), (ED)	W	WEST
CONN	CONNECT (ION)	FW	FACE OF VENEER	MCH	MECHANICAL	RF	ROOM	W/	WITH
CONST	CONTRACT (ION)	FS	FACE OF WALL	MEZZ	MEZZANINE	RTU	ROOF TOP UNIT	W/C	WATER/CEMENT RATIO
CONT	CONTINUOUS (ATION)	FT	FEET, FOOT	MFR	MANUFACTURE (R)			W/O	WITHOUT
CONTR	CONTRACTOR	FTG	FOOTING	MIN	MINIMUM			WD	WOOD
CTR	CENTER			MISC	MISCELLANEOUS			WL	WIND LOAD
CW	CURTAIN WALL			MSO	MASONRY OPENING			WP	WORK (ING) POINT
CY	CUBIC YARDS			MPL	MILES PER HOUR			WT	WEIGHT
				MTL	METAL			WWR	WELDED WIRE REINFORCING

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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STRUCTURAL COVER SHEET

S001

PART 1: SCHEDULE OF SPECIAL INSPECTIONS	
STATEMENT OF SPECIAL INSPECTIONS	
1. SPECIAL INSPECTION FREQUENCY DEFINITIONS:	
A. CONTINUOUS: THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. B. PERIODIC: THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK.	

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 N3.2	1705.2
2. MATERIAL VERIFICATION OF STRUCTURAL STEEL	-	X	ASC 360	
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		
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	1705.2.1
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	
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	1705.2.1
B. UT TESTING ON 10% OF BUTT, T- & CORNER JOINTS IN MATERIAL 5/16" THICK OR GRATER (RISK CATEGORY II ONLY)	AS NOTED			
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	1705.2.1
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	
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.				

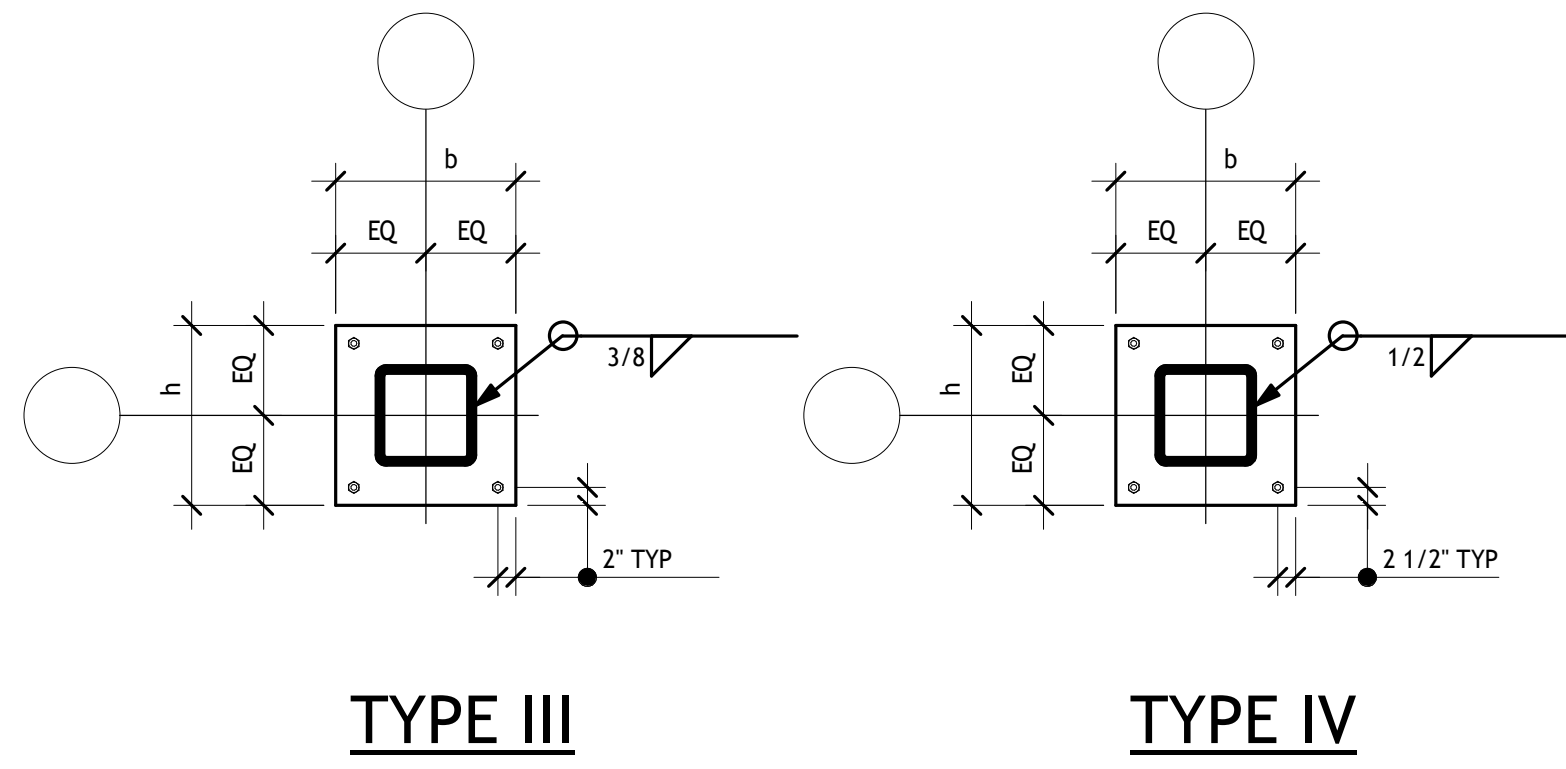
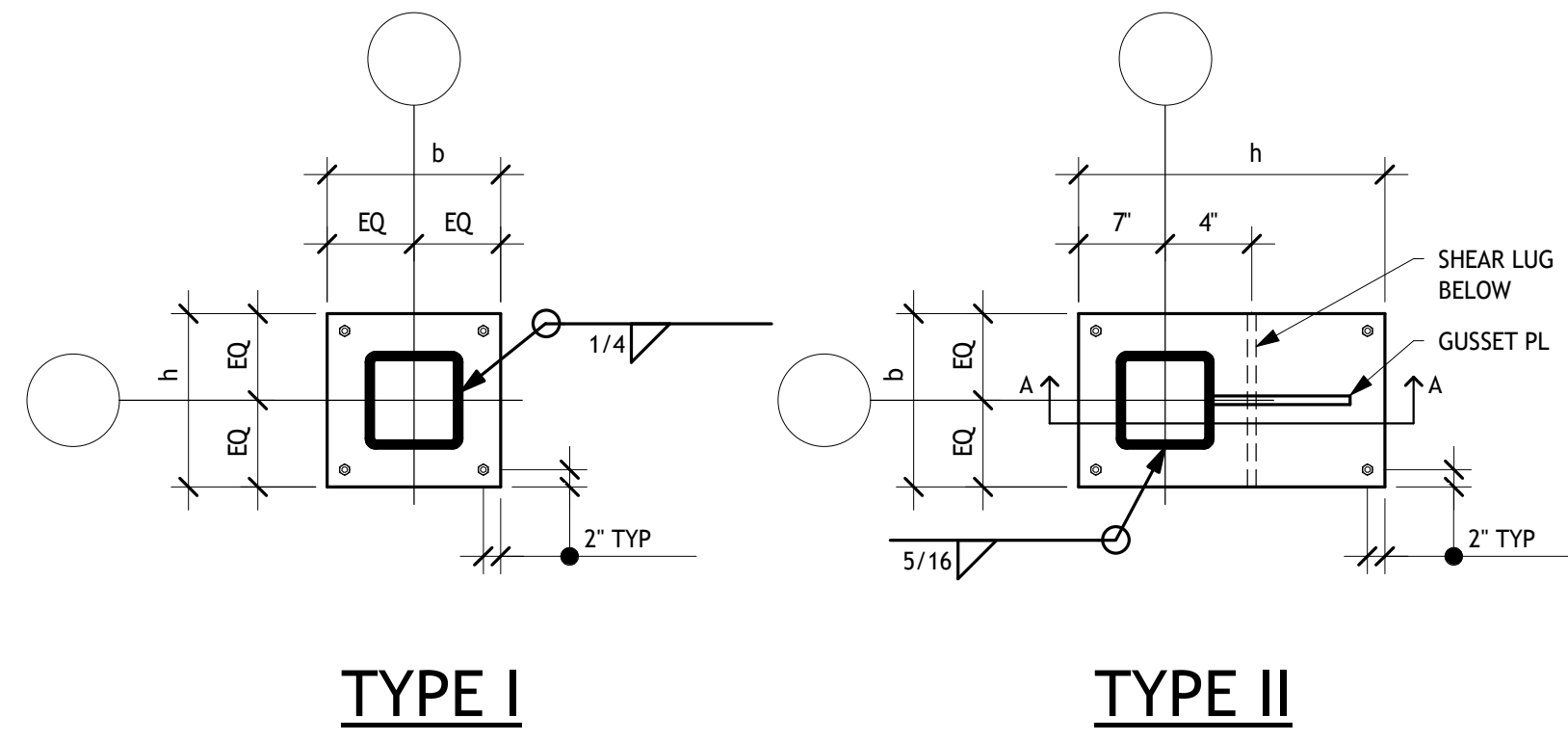
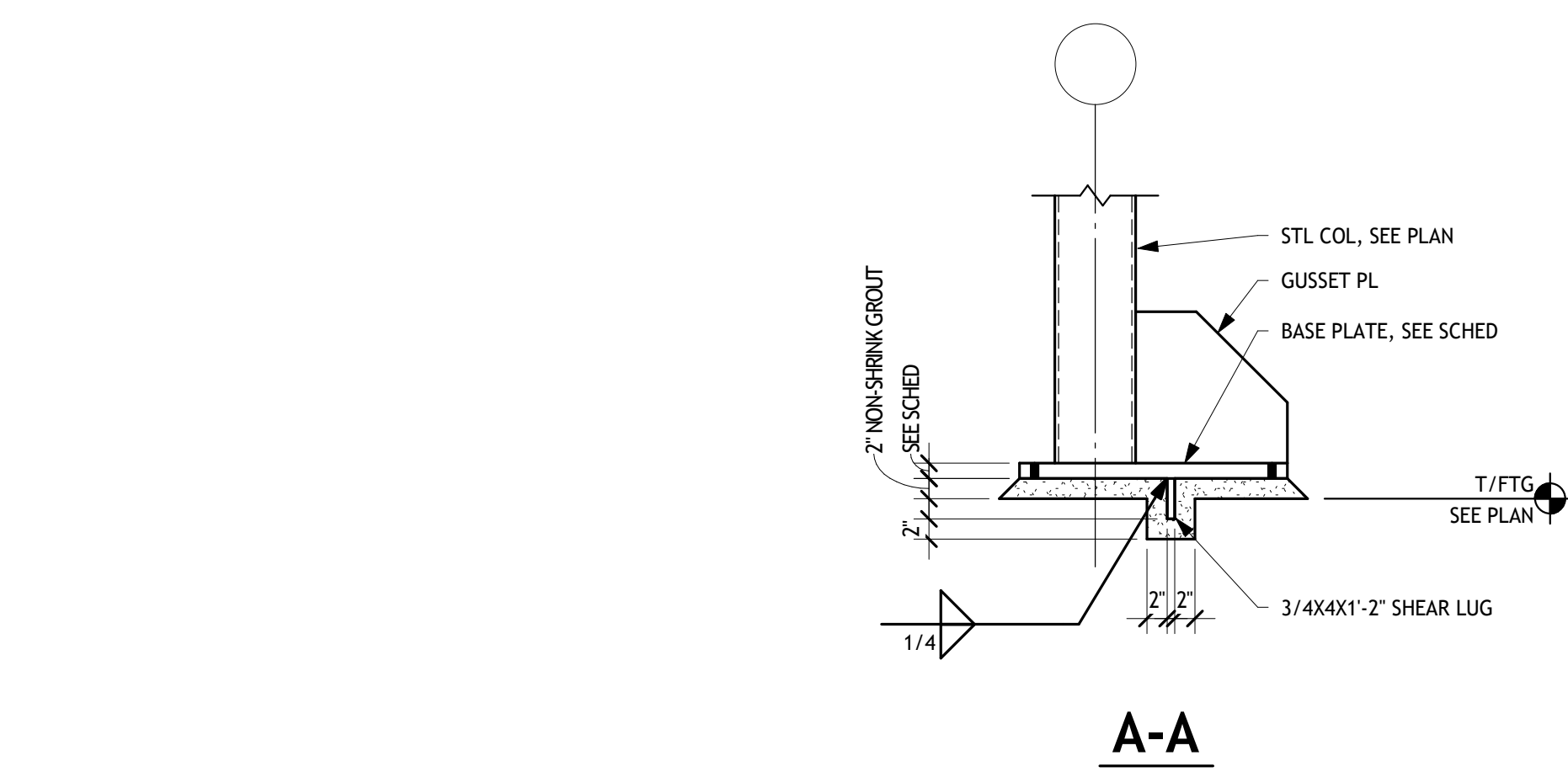
PART 1: SCHEDULE OF SPECIAL INSPECTIONS			
IBC 1705.2.3 COLD-FORMED STEEL DECK			
VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA
	CONTINUOUS	PERIODIC	REFERENCED STANDARD
1. MANUFACTURER DOCUMENTS (VERIFY REPORTS AND CERTIFICATES AS LISTED IN SDI QA/QC, SECTION B FOR 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.I/J 2207.1	1705.2.4
B. BRIDGING - HORIZONTAL AND DIAGONAL				
a. STANDARD BRIDGING	-	X	S.I/J 2207.1	1705.2.4
b. BRIDGING THAT DIFFERS FROM S.I/J SPECIFICATIONS	-	X		
2. WHERE APPLICABLE, SEE SECTION 1705.13, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.				

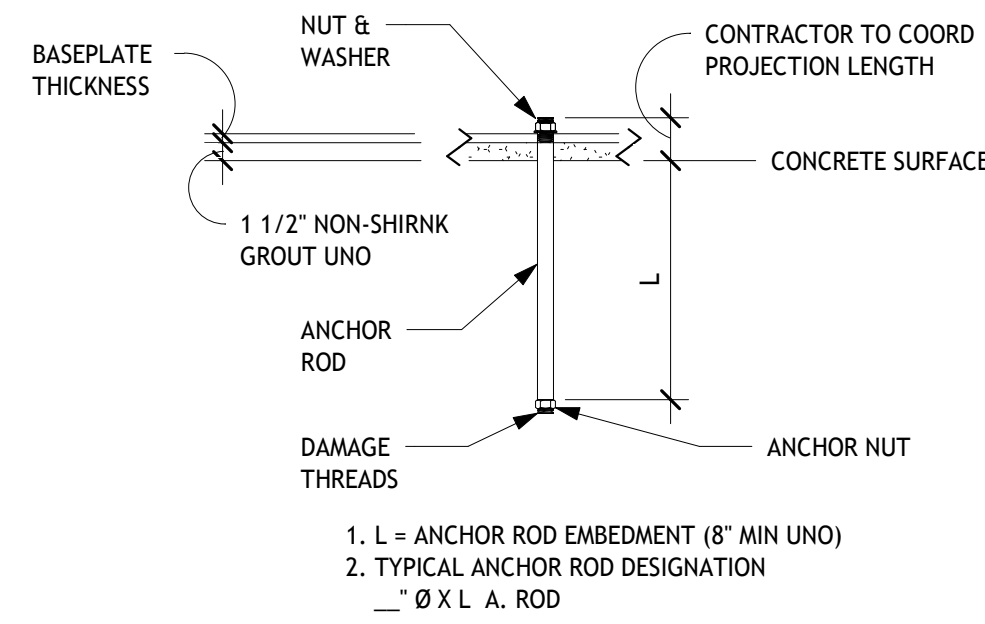
PART I: SCHEDULE OF SPECIAL INSPECTIONS				
IBC 1705.3 REQUIRED SPECIAL INSPECTIONS AND TESTS FOR CONCRETE CONSTRUCTION				
VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA	
	CONTINUOUS	PERIODIC	REFERENCED STANDARDS ^A	IBC SECTION
1. INSPECTION OF REINFORCING STEEL, INCLUDING 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 1: 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

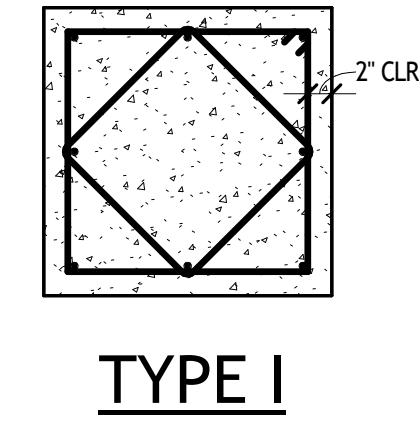
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 LEVIN PORTER ARCHITECTS 30 LEONARD DRIVE COLUMBUS, OH 43224-4542 P: 614.224.4331 WWW.LEVIN-PORTER.COM Levin Porter Associates Inc. dba Levin Porter Architects					
STRUCTURAL SPECIAL INSPECTIONS S003					



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"x8" BENT PL	

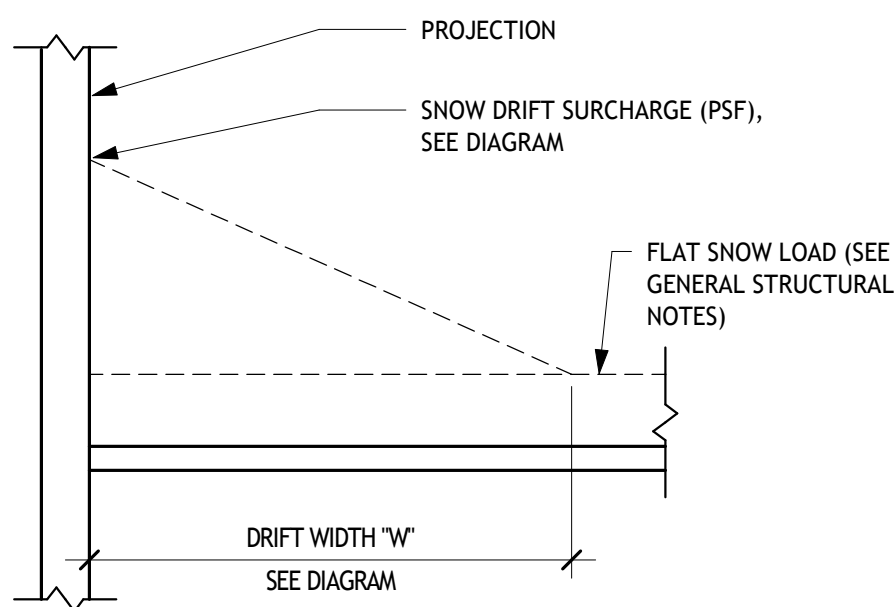
- ALL LINTELS HAVE A MINIMUM OF 8" BEARING, UNLESS NOTED.
- LONG LEG VERTICAL ON ANGLES UNLESS NOTED.
- SEE ARCH DRAWINGS FOR VERTICAL LOCATION OF LINTELS.

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	

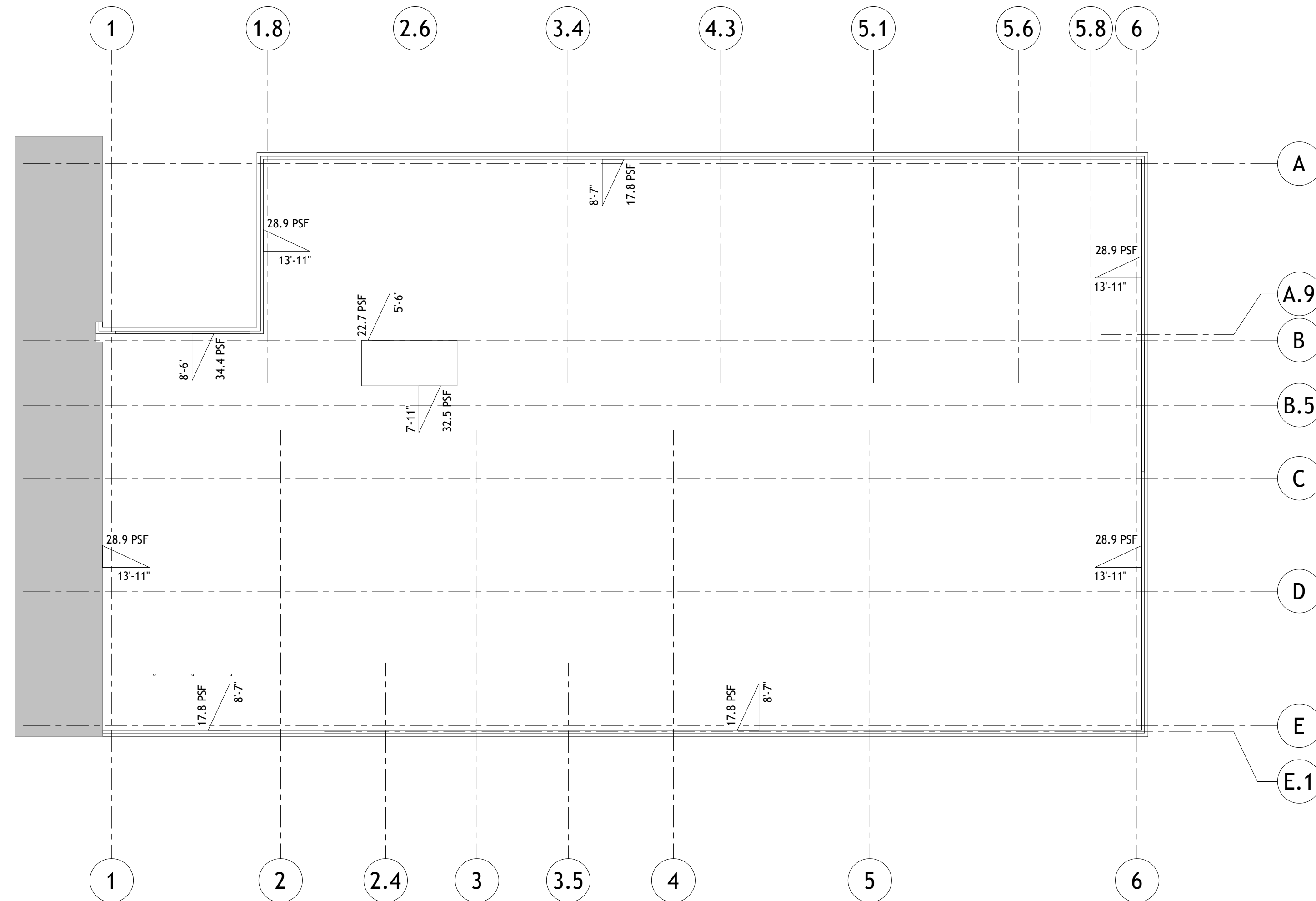
FOOTING SCHEDULE - ISOLATED FOOTINGS					
TYPE	SIZE			REINFORCING	REMARKS
	WIDTH	LENGTH	THICKNESS		
46	4'-6"	4'-6"	1'-6"	(4) #6 EW TGB	
60	6'-0"	6'-0"	1'-0"	(5) #5 EWB	
66	6'-6"	6'-6"	1'-2"	(5) #6 EWB	
66A	6'-6"	6'-6"	1'-2"	(5) #6 EW TGB	
76	7'-6"	7'-6"	1'-2"	(6) #6 EW TGB	
76A	7'-6"	7'-6"	1'-0"	(6)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

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



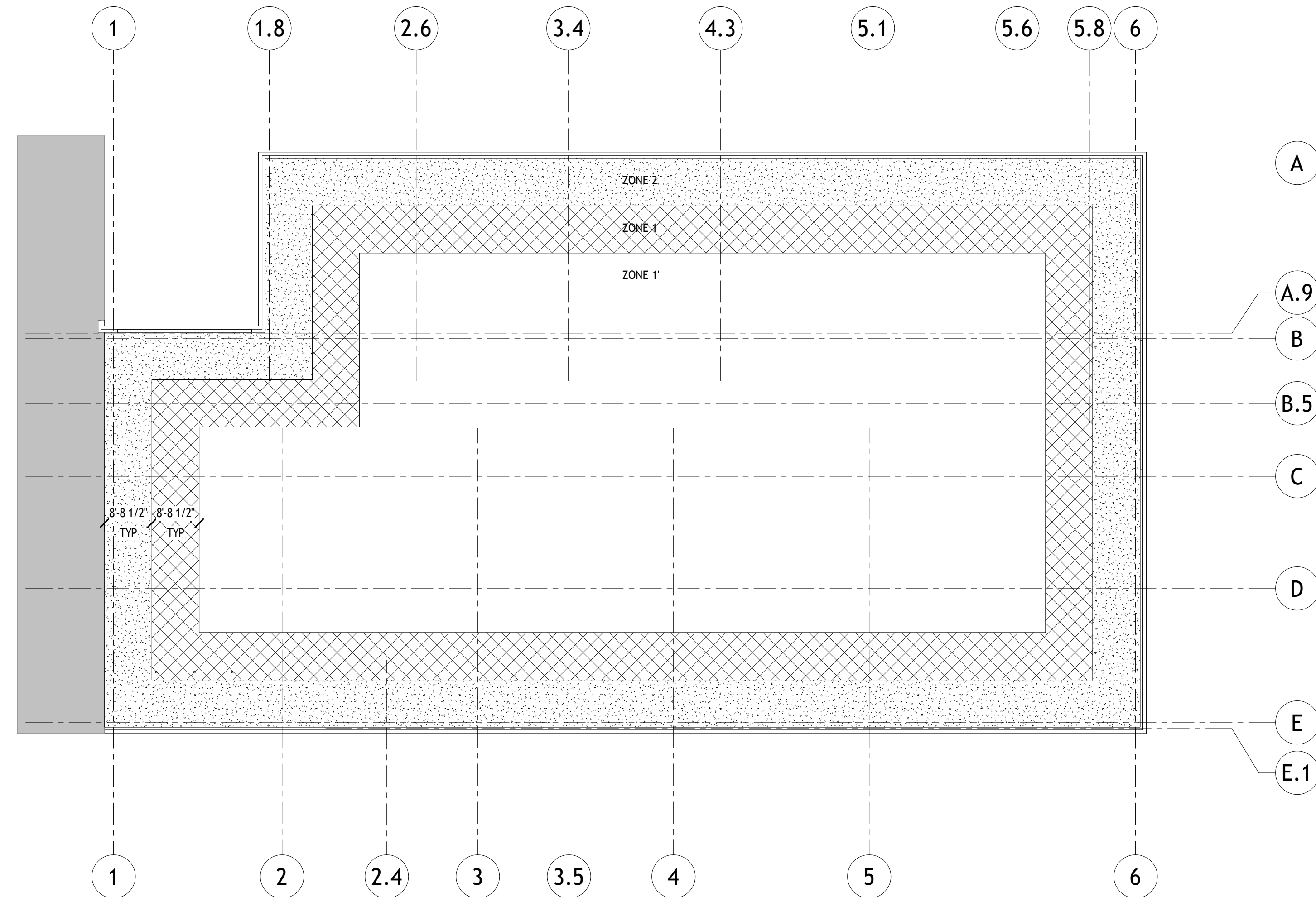
- VALUES IN DIAGRAM ARE SURCHARGE SNOW LOADS (ASD) ADDED TO THE UNIFORM FLAT SNOW LOAD. SEE 5002 FOR GENERAL INFORMATION ON SNOW LOADS.

SNOW DRIFT DETAIL



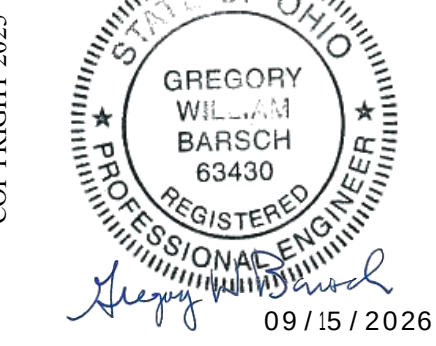
SNOW LOADING DIAGRAM

- SEE GENERAL NOTES ON 5002 FOR ADDITIONAL SNOW PARAMETERS.



WIND UPLIFT DIAGRAM

- SEE GENERAL NOTES ON 5002 FOR ADDITIONAL LOAD PARAMETERS.
- SEE COMPONENTS AND CLADDING SCHEDULE ON 5002 FOR ZONE WIND PRESSURES. FOR NET UPLIFT CALCULATIONS, 9 PSF DEAD LOAD SHALL BE USED.



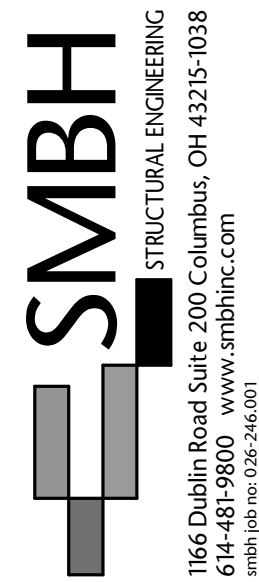
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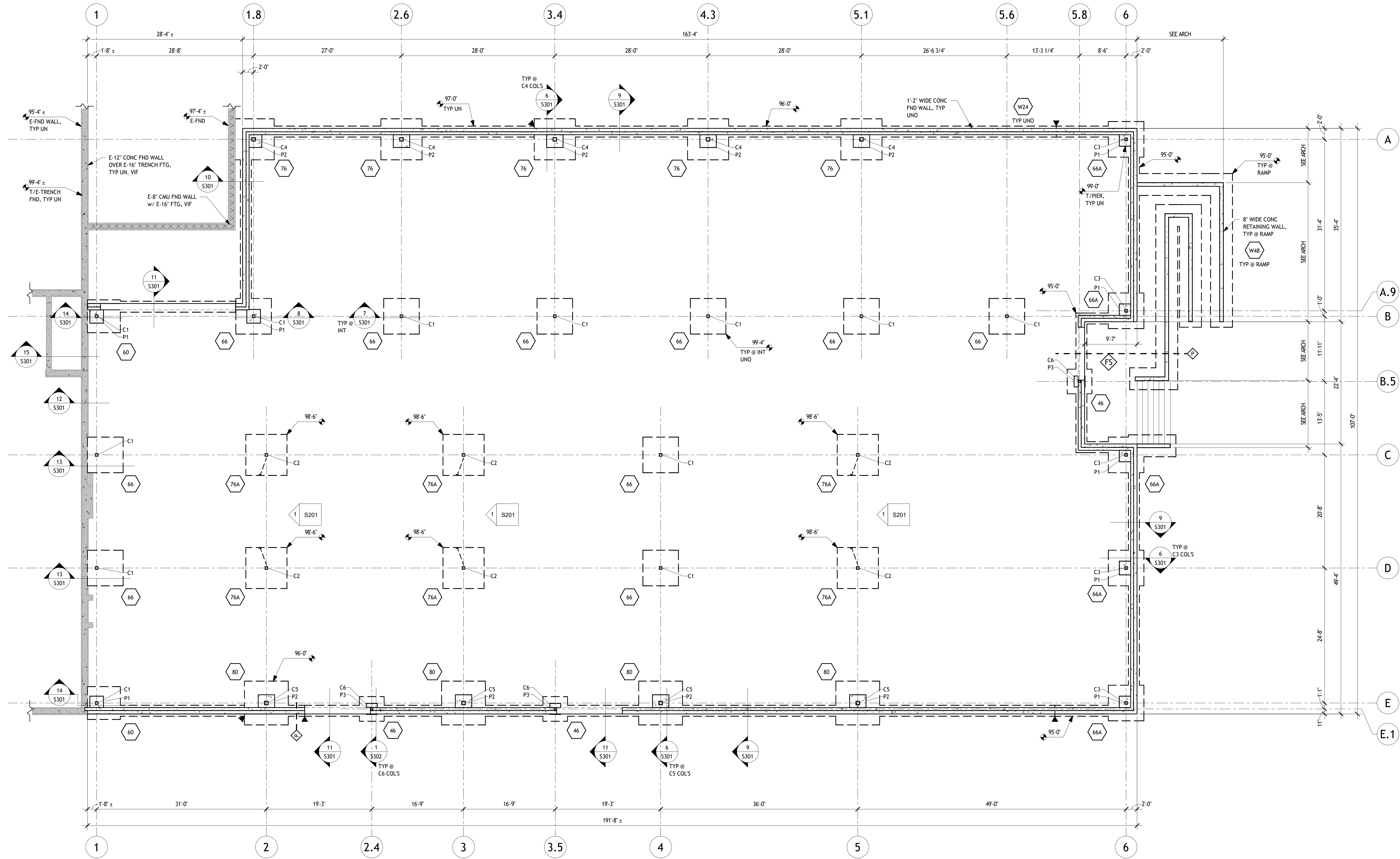
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STRUCTURAL
SCHEDULES, TYPICAL
DETAILS & DIAGRAMS

S004



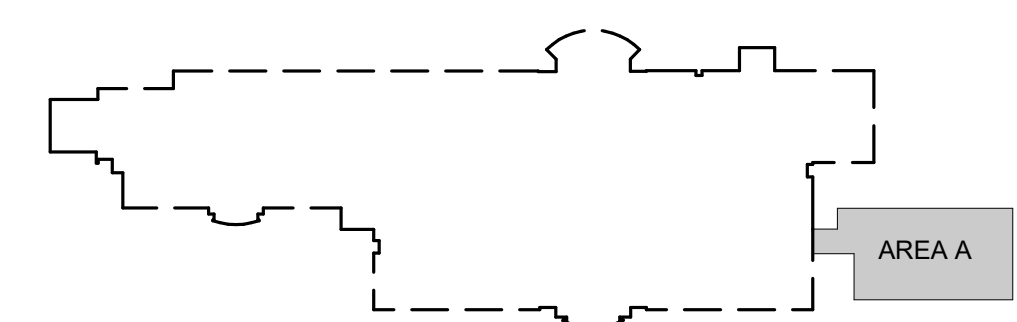
FOUNDATION PLAN

1/8" = 1'-0"

1. VERIFY LOCATIONS OF COLUMNS, WALLS, OPENINGS, ETC., WITH ARCHITECTURAL DRAWINGS BEFORE PLACING FOUNDATIONS.
2. 4" SLAB ON GRADE WITH 666-W1, 4WV1, 4 WVR. TYPICAL EXCEPT AS NOTED. PROVIDE 6" OF GRANULAR SUBGRADE BELOW SLAB UNLESS NOTED OTHERWISE IN THE REFERENCED GEOTECHNICAL REPORT.
3. TOP OF SLAB ELEVATION 100'-0" EXCEPT AS NOTED. SEE CIVIL DRAWINGS FOR REFERENCE SITE ELEVATION.
4. DESIGN SOIL BEARING PRESSURE 1,500 PSF (ASSUMED). ANY SOFT SPOTS OR VARIATIONS IN SUBSURFACE CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER. THE DESIGN BEARING CAPACITY SHALL BE FIELD VERIFIED BY AN INDEPENDENT TESTING AGENCY SPECIALIZING IN SOILS INVESTIGATIONS.
5. INFORMATION FOR THE EXISTING BUILDING HAS BEEN TAKEN FROM DRAWINGS AND HAS NOT BEEN VERIFIED IN THE FIELD. CONTRACTOR SHALL VERIFY ALL RELEVANT CONDITIONS AND DIMENSIONS OF EXISTING CONSTRUCTION BEFORE PROCEEDING WITH THE WORK.
6. ELEVATIONS SHOWN ON PLAN ARE TOP OF THE FOOTING OR SLAB.
7. TOP OF FOOTING ELEVATION 98'-0" UNLESS NOTED.
8. FOOTINGS TO CENTER UNDER COLUMN OR WALL UNLESS NOTED.
9. CONTRACTOR SHALL PROVIDE FLOOR CONTROL AND CONSTRUCTION JOINTS IN SLAB ON GRADE IN ACCORDANCE WITH SECTIONS 1, 2 & 3/S201.
10. ALL EXTERIOR FOOTINGS ARE TO EXTEND A MINIMUM OF 3'-0" BELOW FINISHED GRADE OR TO LOCALLY RECOGNIZED FROST DEPTH.
11. WHERE FILL IS ON BOTH SIDES OF THE FOUNDATION WALLS, INSTALL THE FILL UNIFORMLY ON BOTH SIDES OF THE WALL.
12. REFERENCE: GENERAL STRUCTURAL NOTES - S002; COLUMN SCHEDULE - S004.

13. SYMBOL LEGEND:

- INDICATES TOP OF FOOTING ON PLAN.
- INDICATES FOOTING MARK. SEE SCHEDULE ON SHEET S004.
- INDICATES APPROXIMATE LOCATION OF STEP IN FOOTING ON PLAN. SEE SECTION 4 / S301.
- INDICATES FROST SLAB. SEE SECTION 5 / S301.
- INDICATES COLUMN (OR PIER) ON PLAN. SEE SCHEDULE ON SHEET S004.
- INDICATES APPROXIMATE LOCATION OF PLUMBING UNDER SLAB ON PLAN. COORDINATE WITH MEP.



KEY PLAN

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FOUNDATION PLAN
S101

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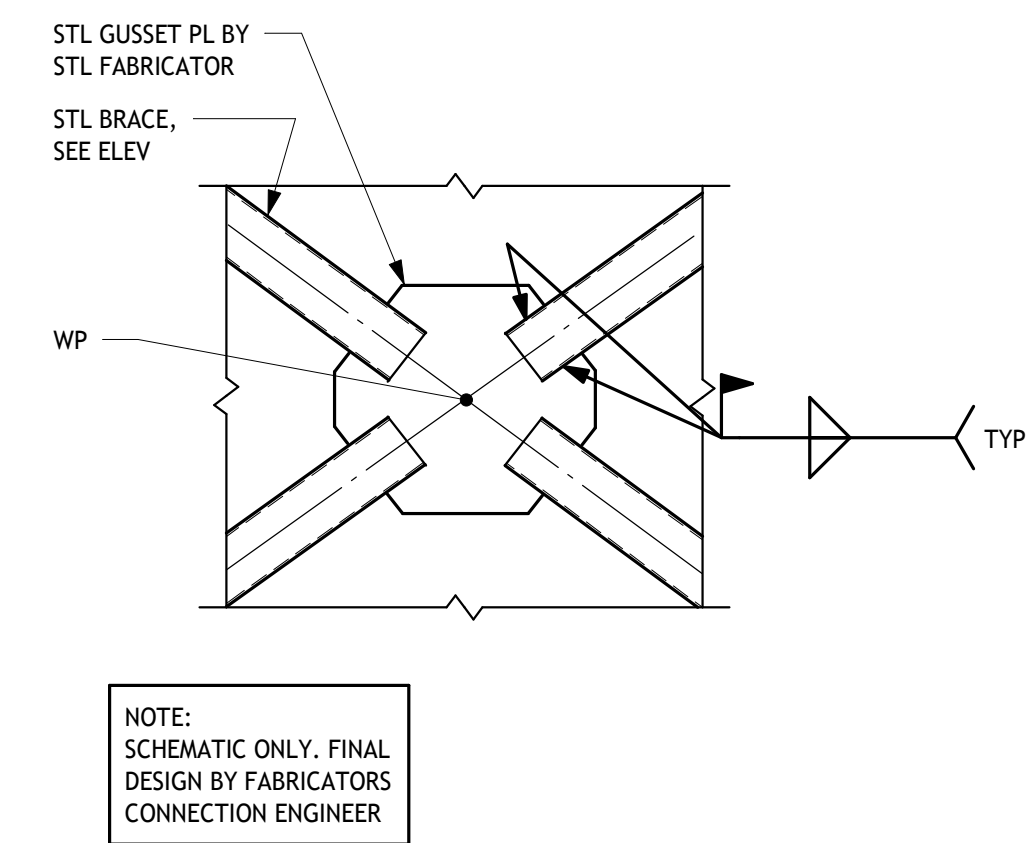
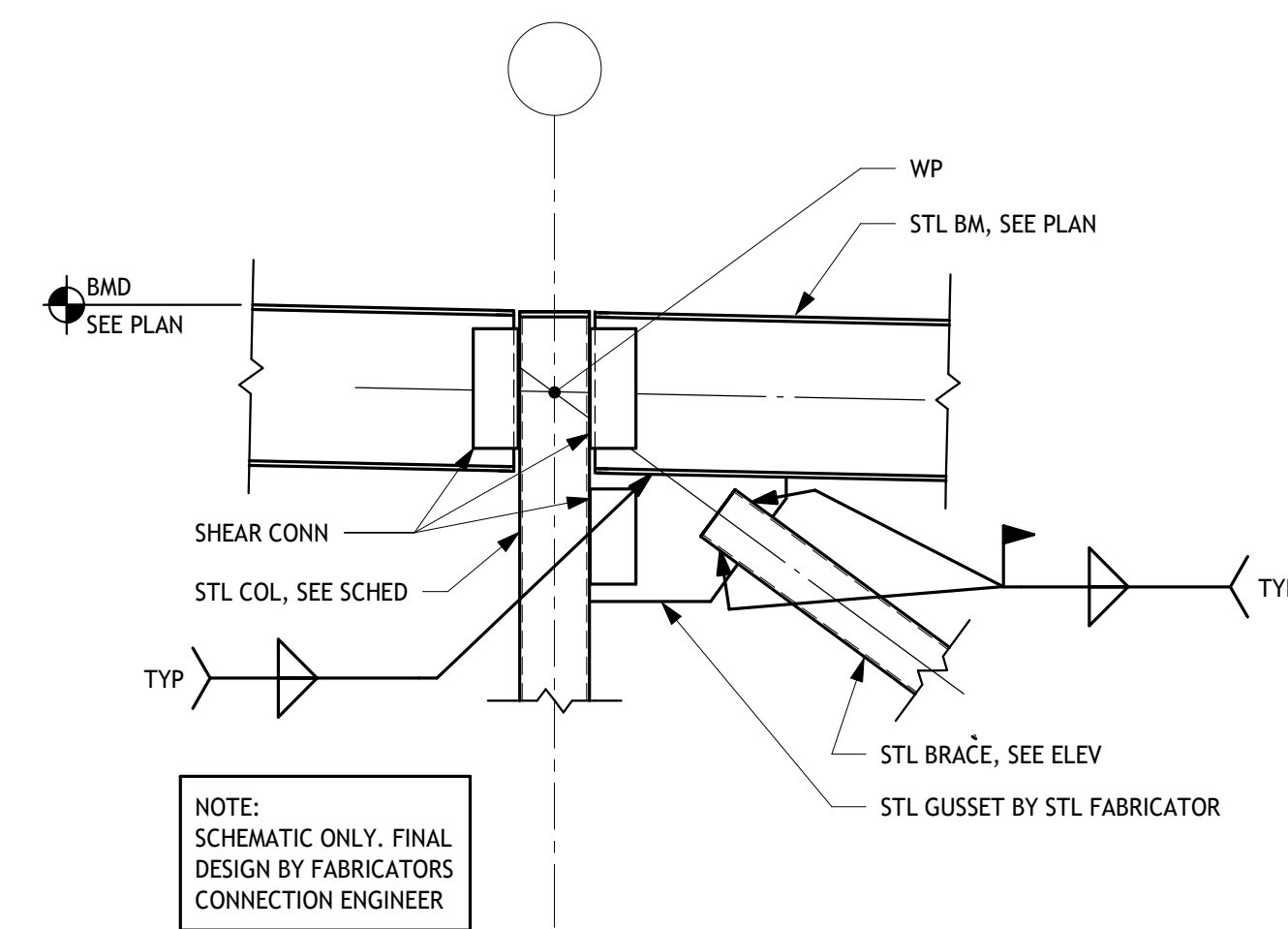
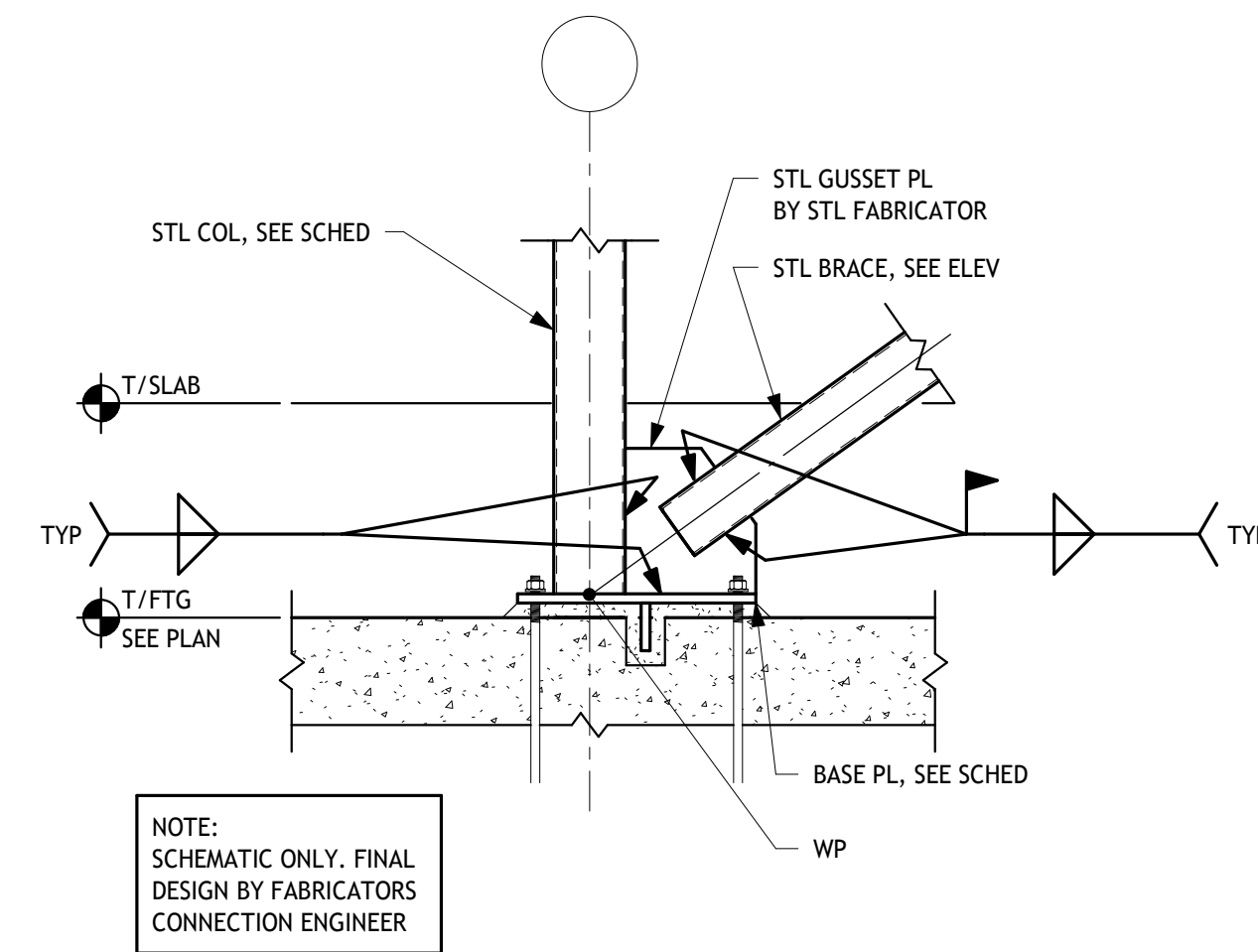
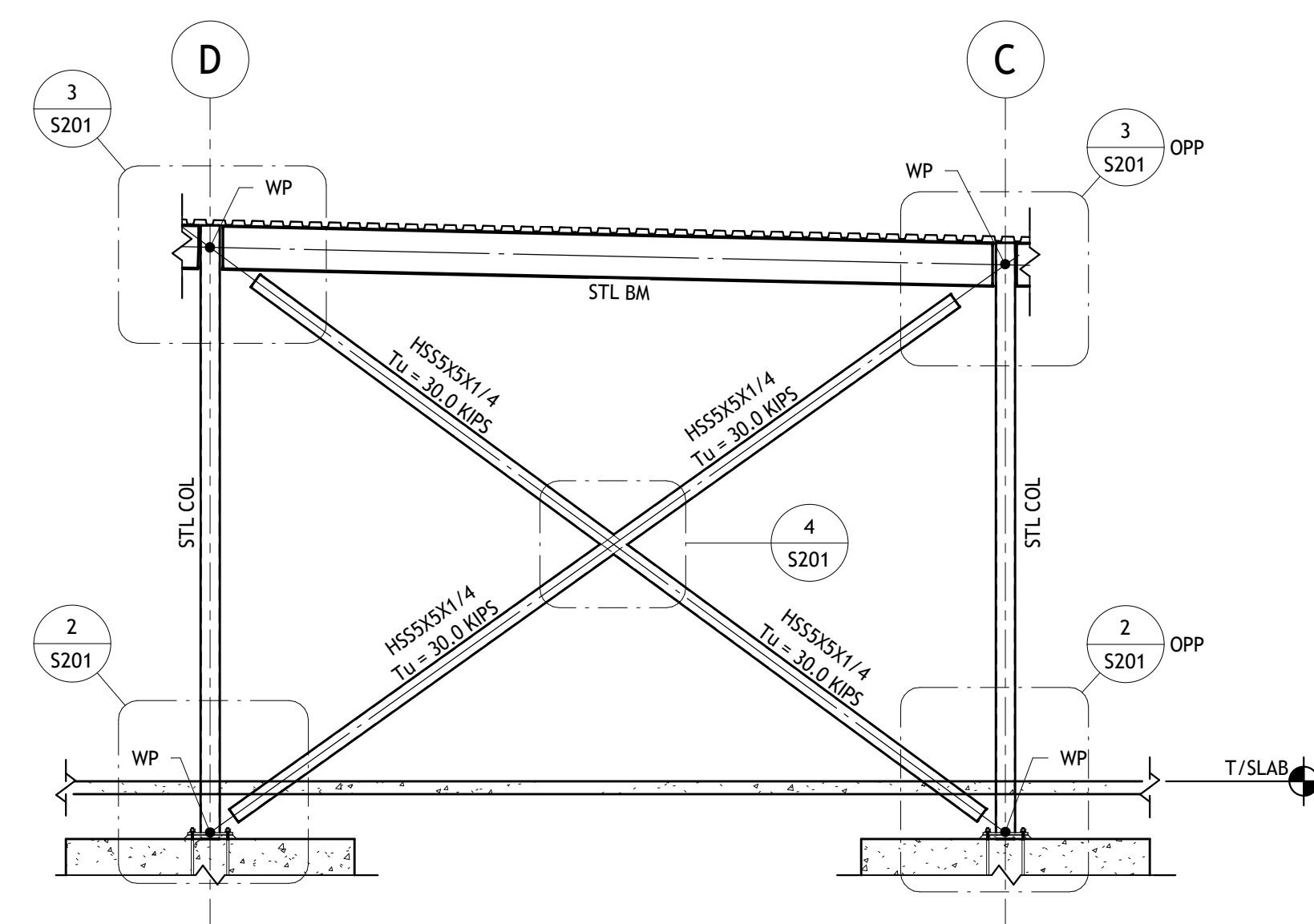
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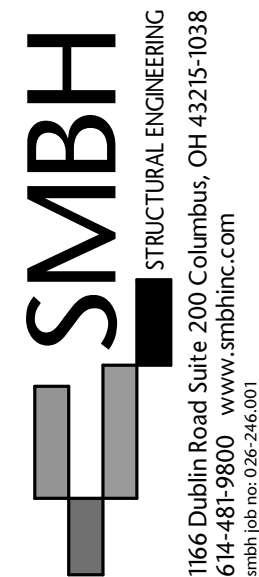
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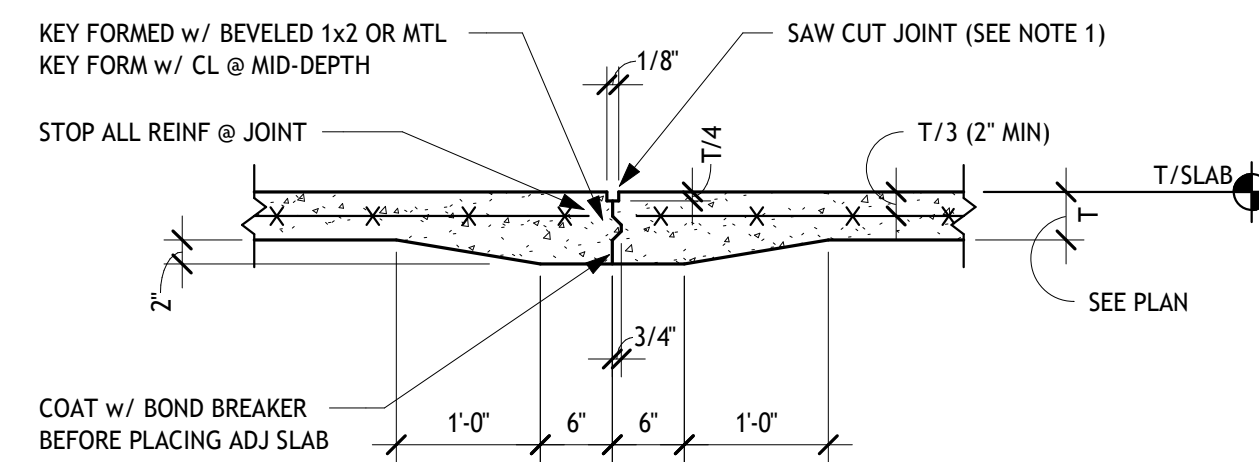


BRACED FRAME ELEVATION AND DETAILS

S201

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.

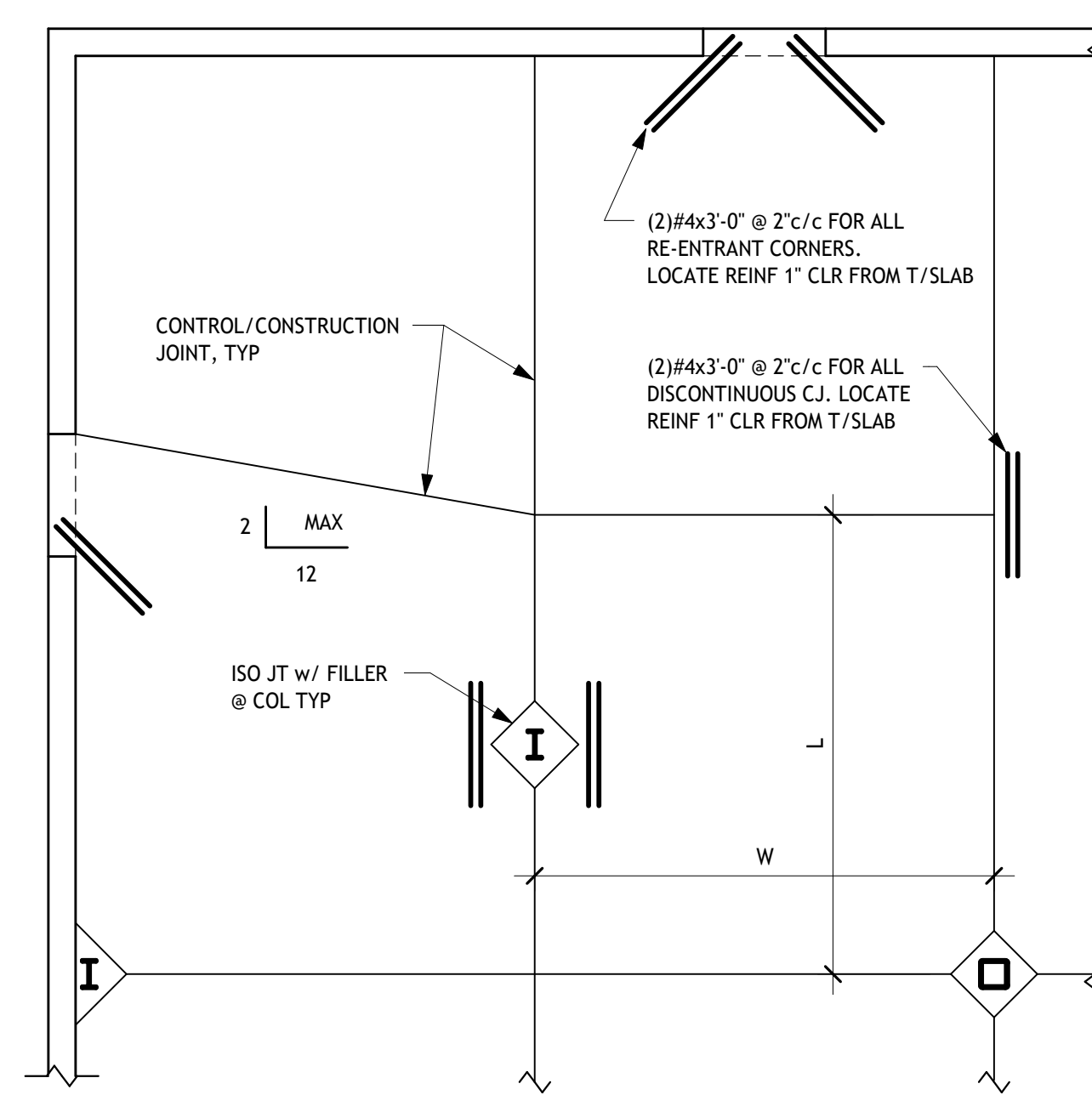
DETAIL



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.

2
S301

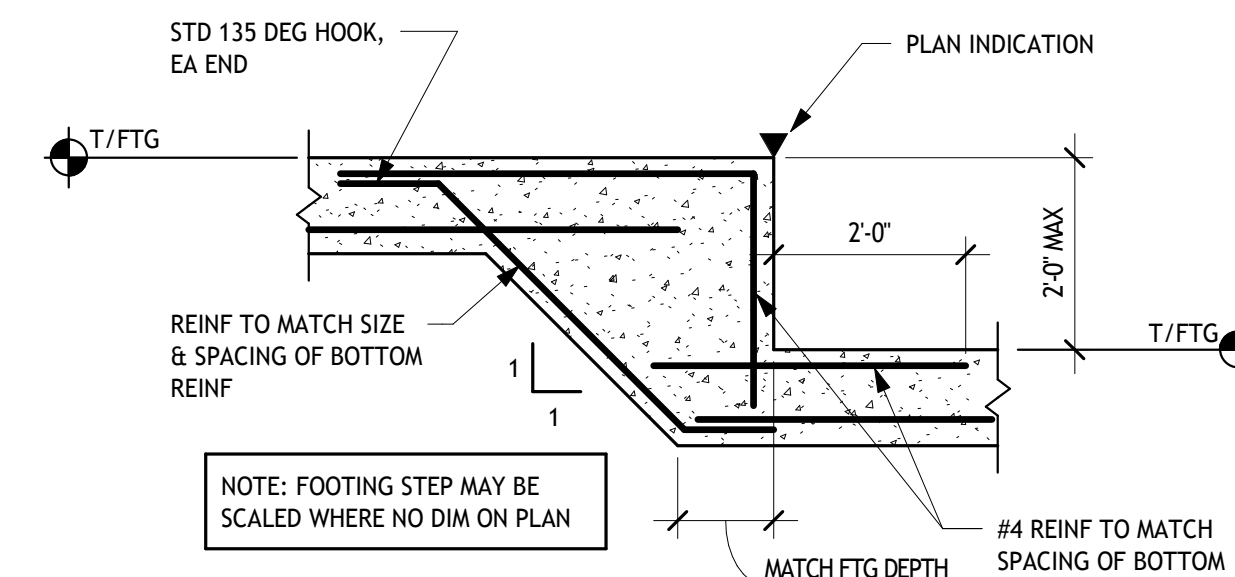
DETAIL



NOTE:

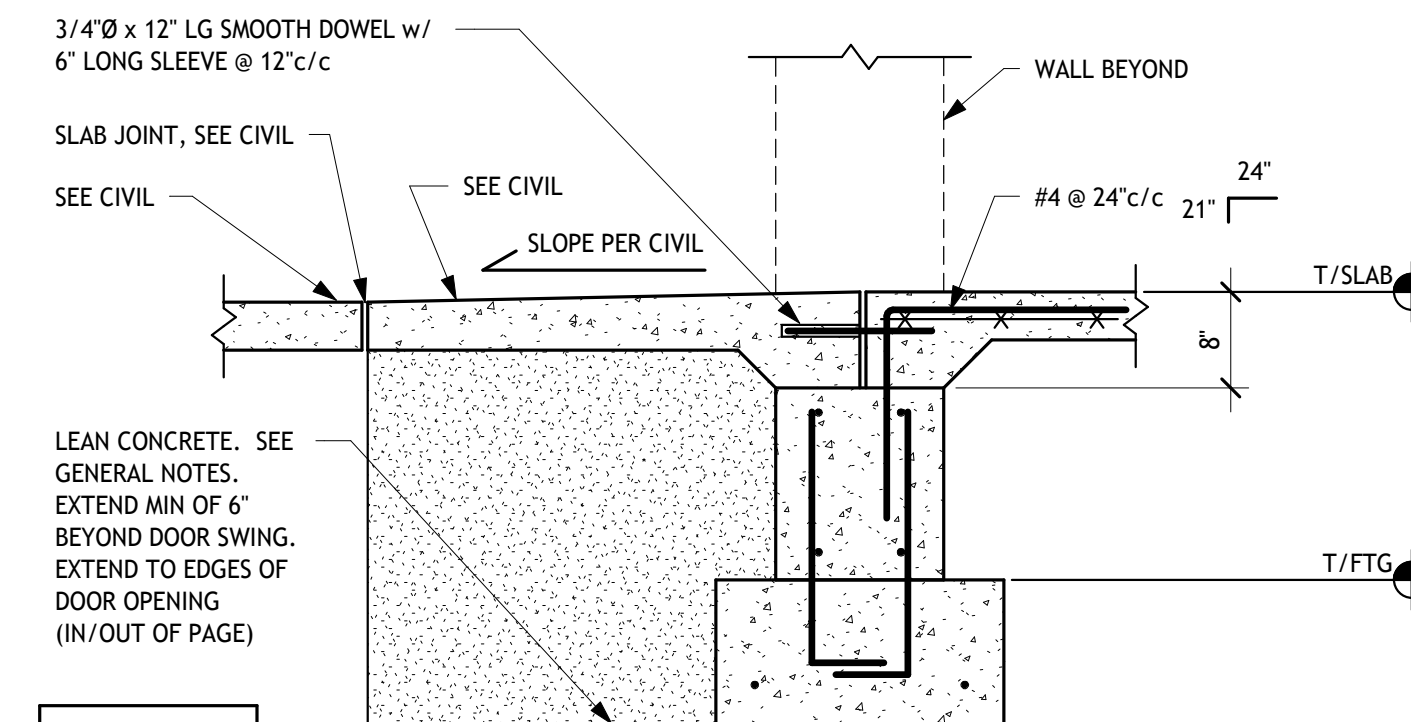
1. JOINTS SHALL DIVIDE SLAB INTO AREAS AS SQUARE AS POSSIBLY (1.25 TO 1) FOR MAXIMUM LxW RATIO.
2. MAXIMUM CONTROL/CONSTRUCTION JOINT SPACING SHALL BE 36 TIMES THE SLAB ON GRADE THICKNESS BUT SHALL NOT EXCEED 15'-0" FOR SLAB ON GRADE THICKNESS OF 5" OR GREATER.

3 CONSTRUCTION/CONTROL JOINT DETAIL
S301



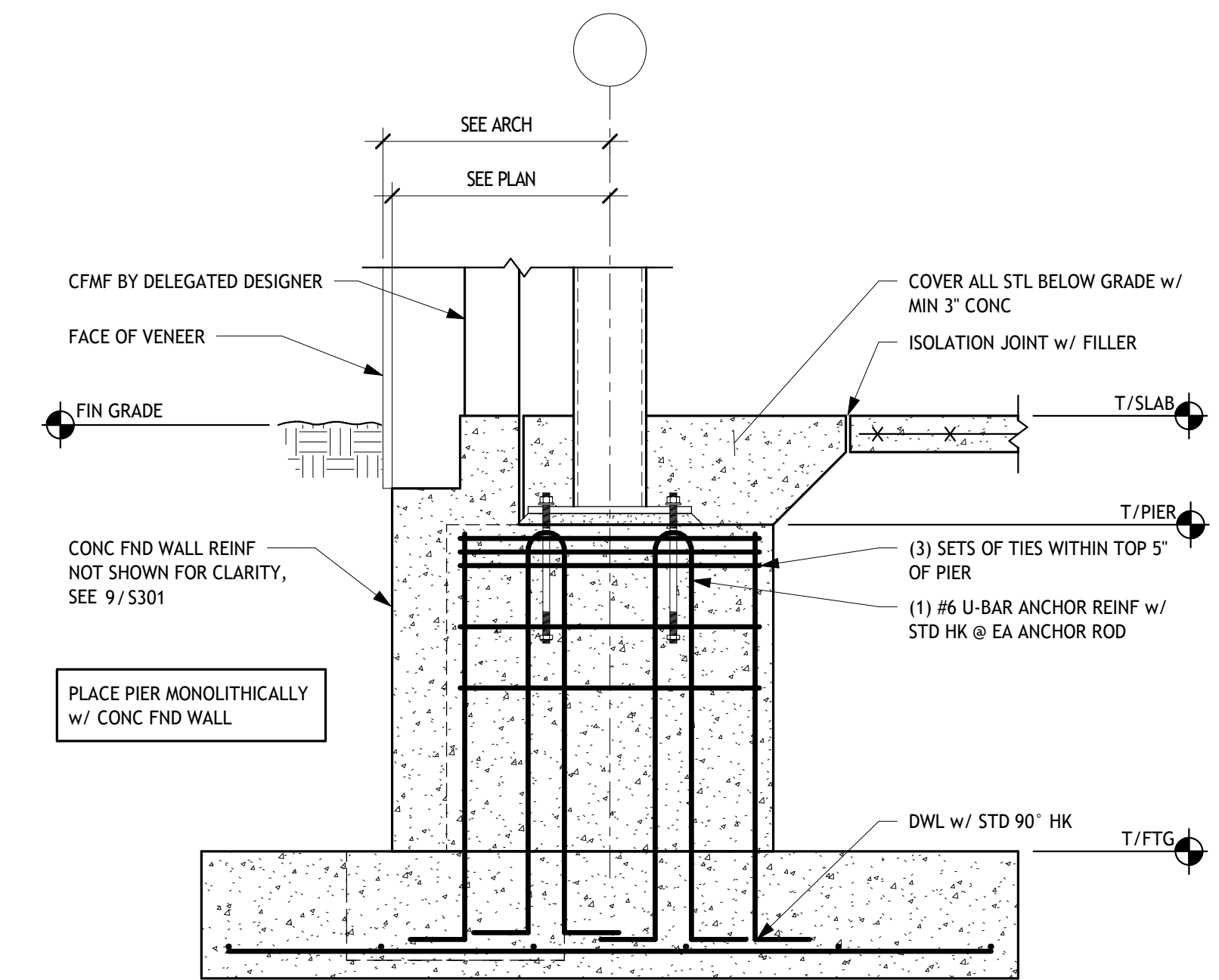
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S301

DETAIL

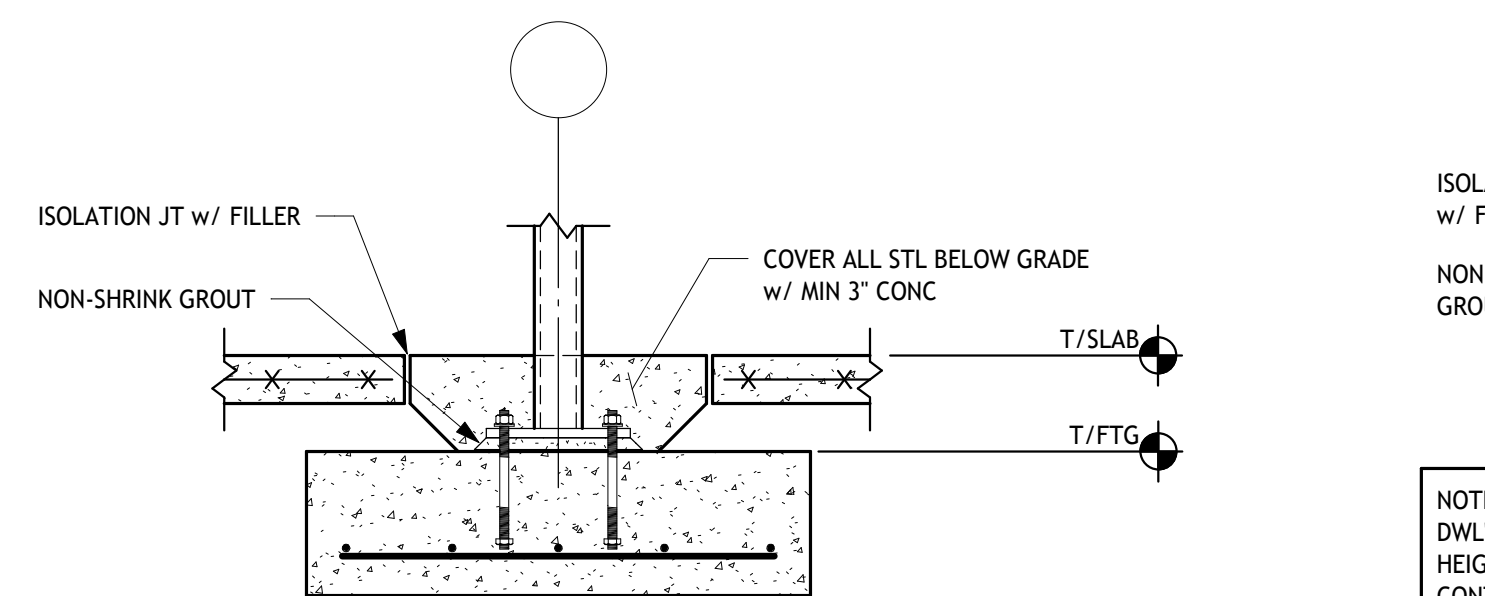


SEE 9/S301 FOR
BALANCE OF
INFORMATION

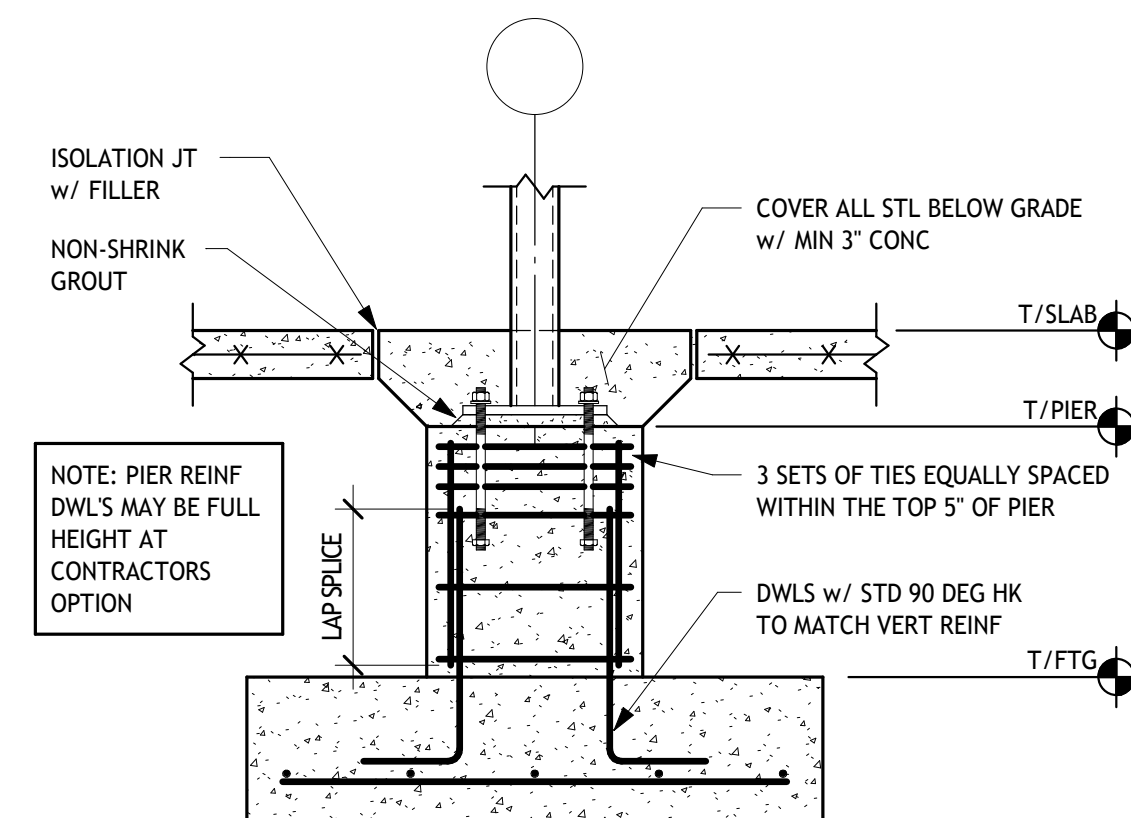
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S301



SECTION

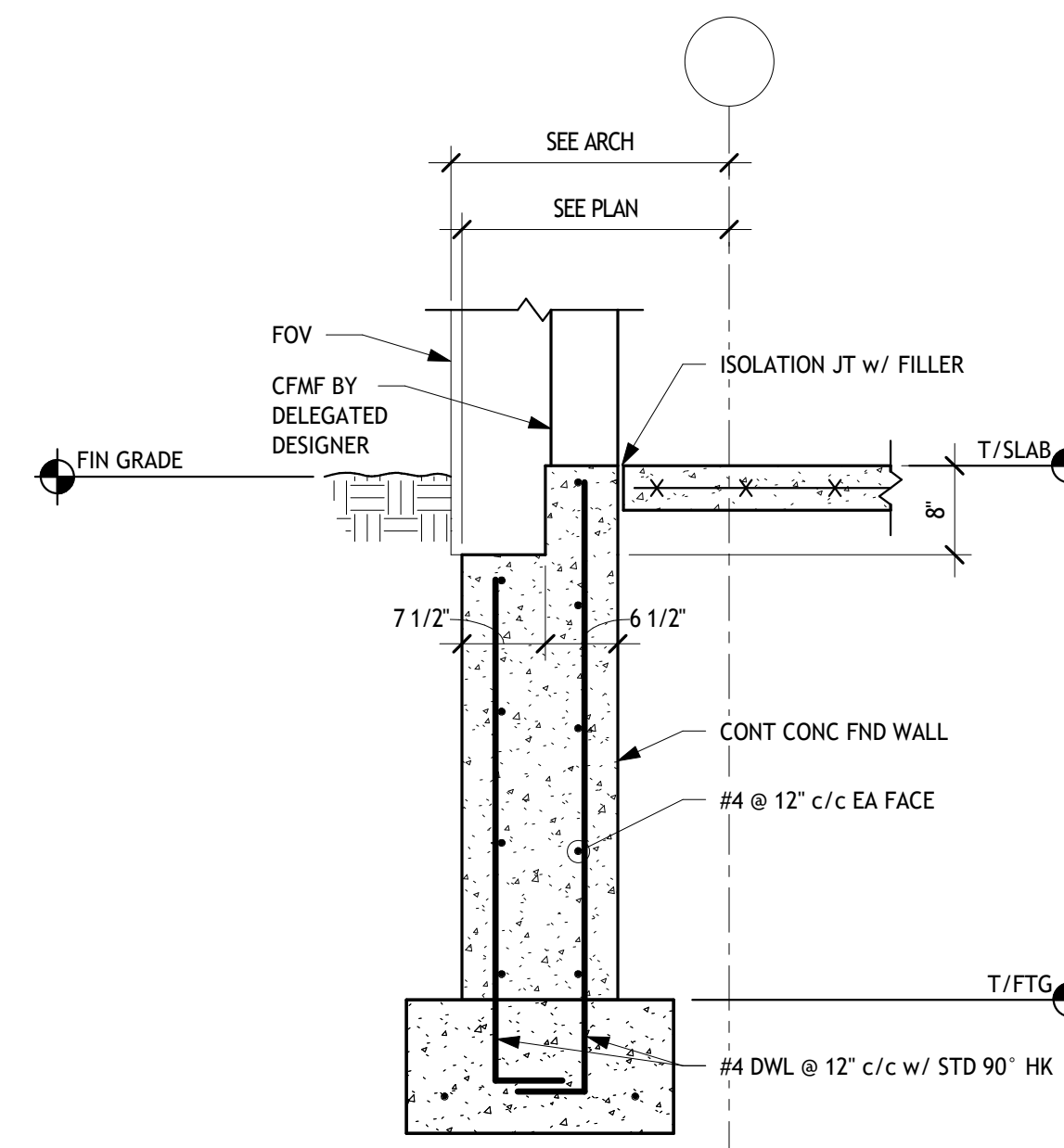


SECTION

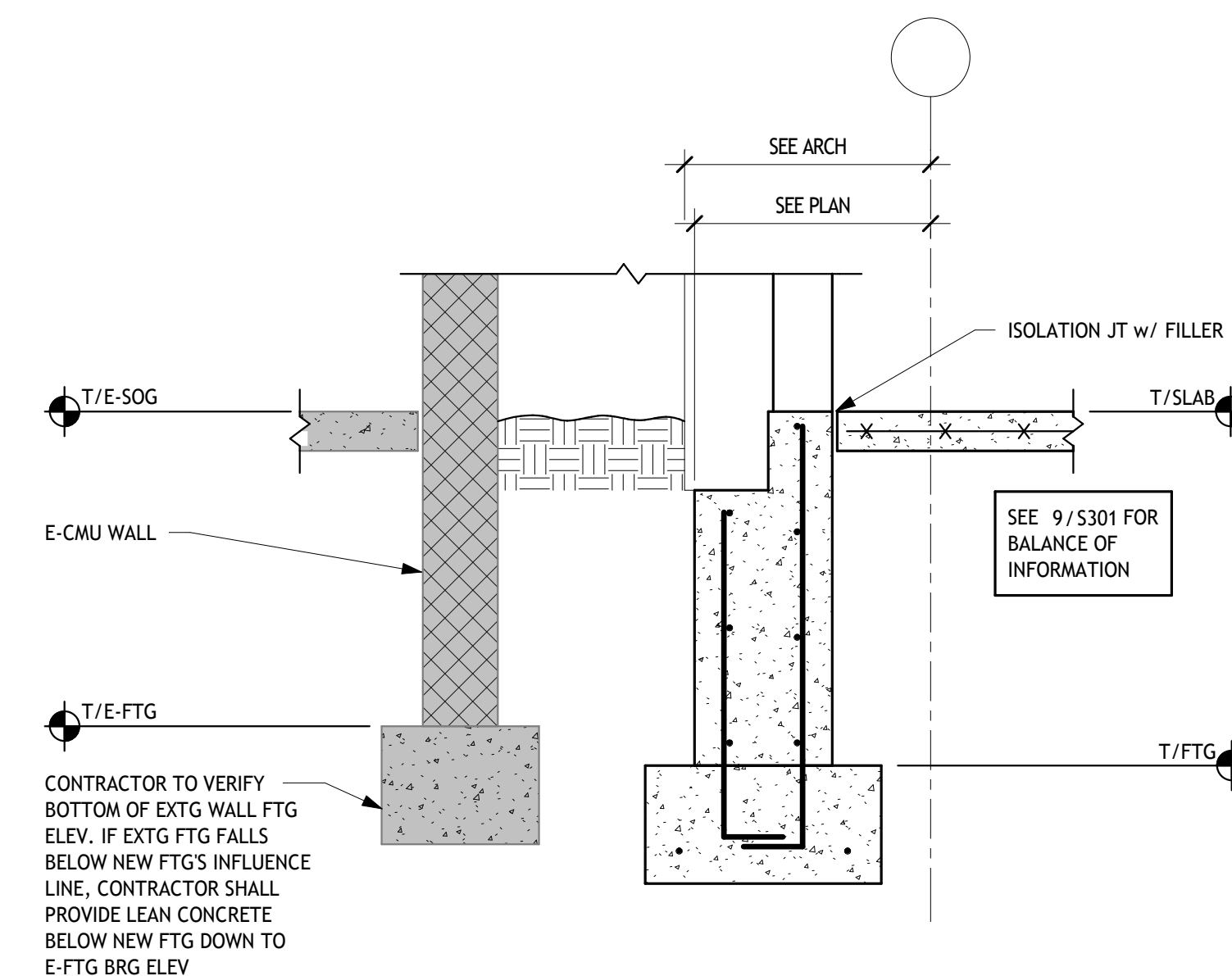


8
S301

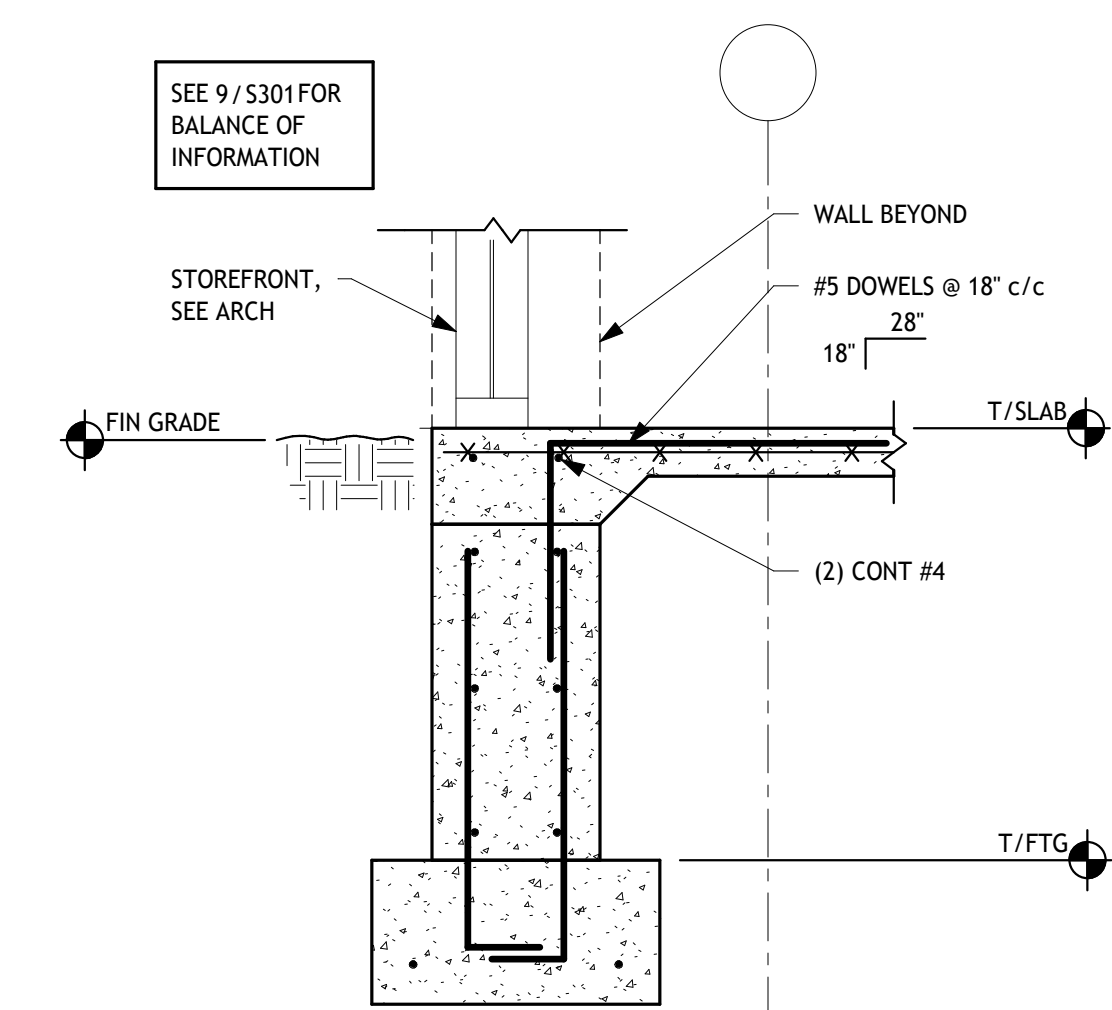
SECTION



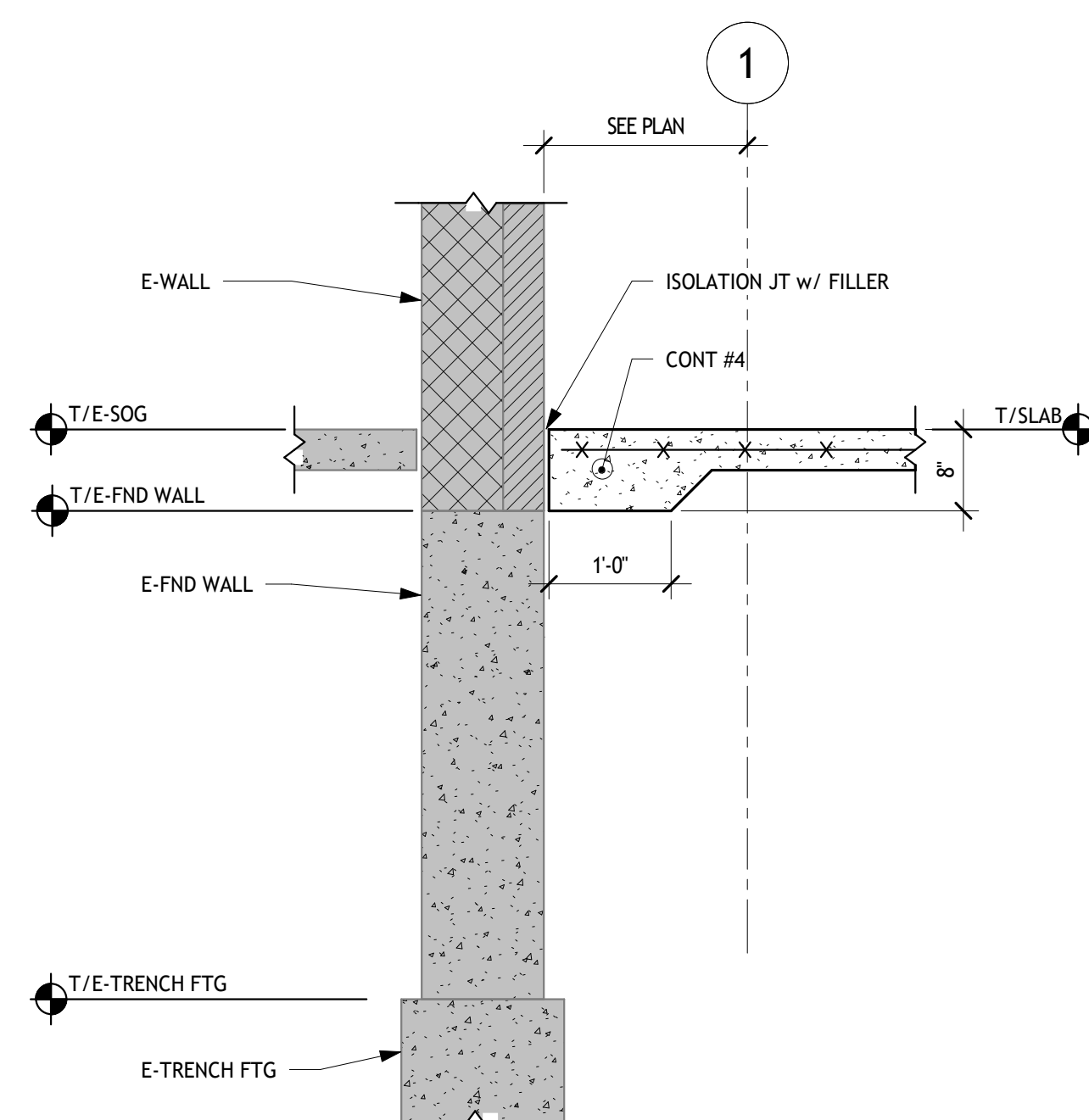
9 SECTION
S301 3/4" = 1'-0"



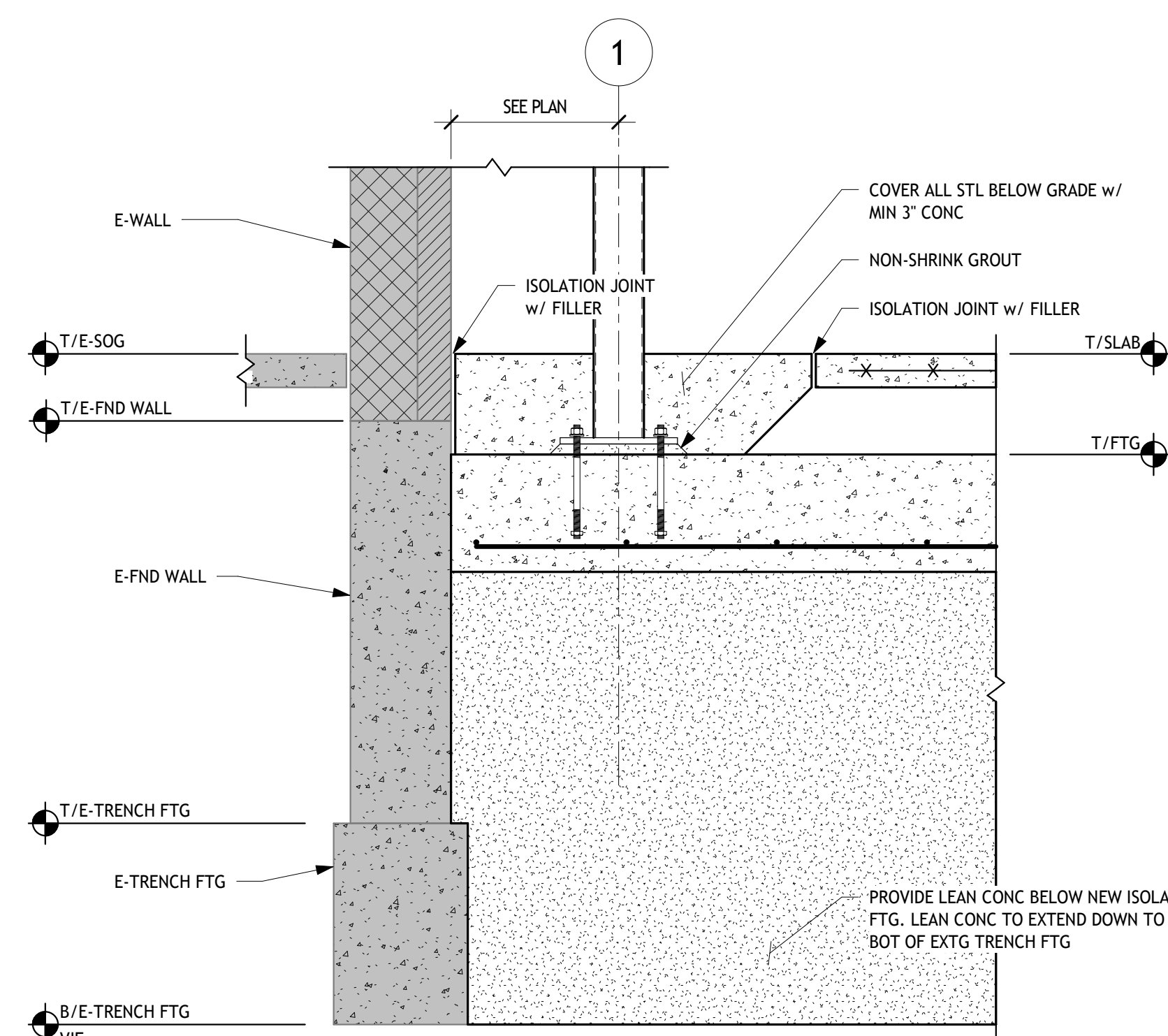
10 SECTION
S301 $3/4" = 1'-0"$



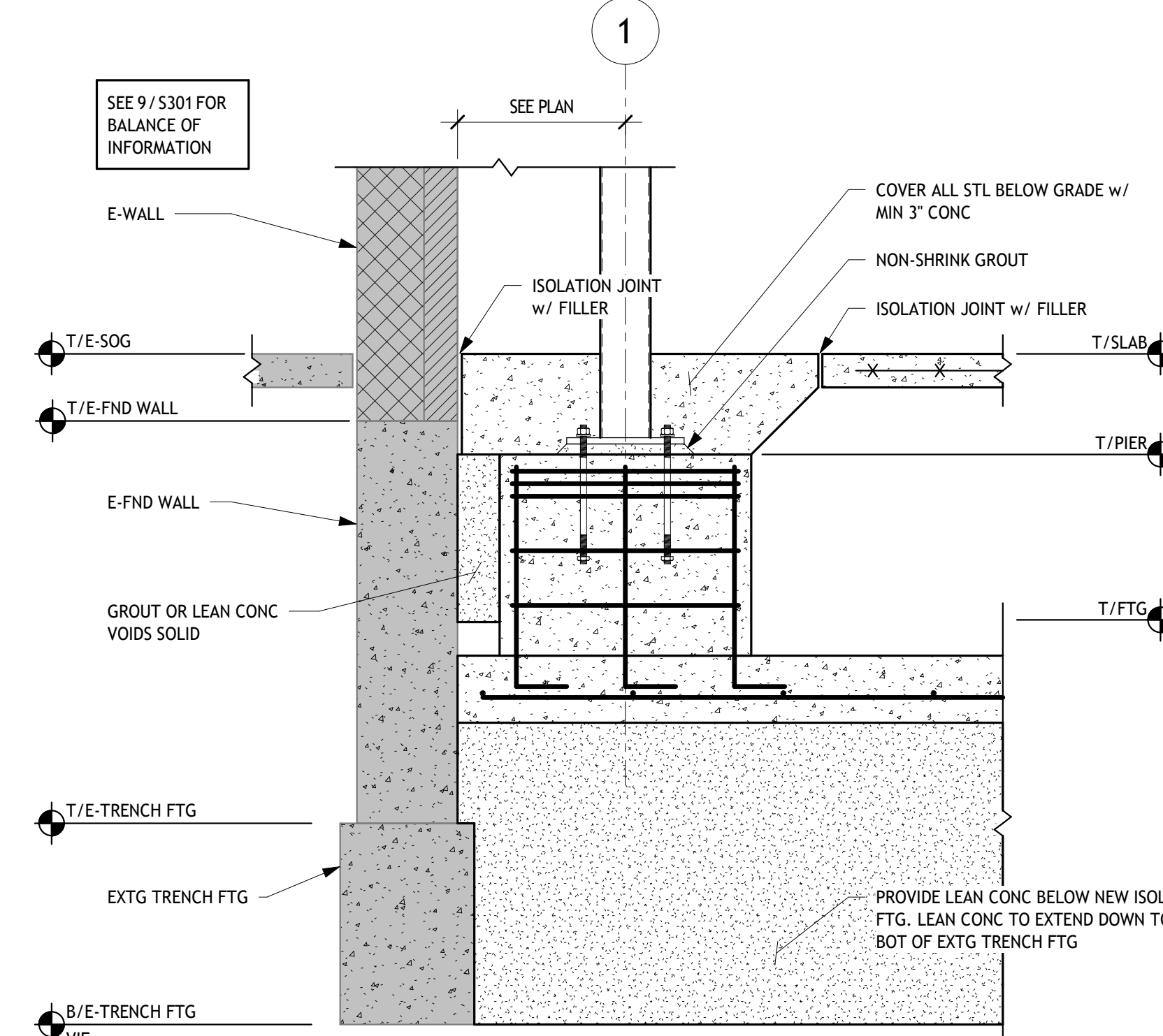
11 SECTION
S301 $3/4" = 1'-0"$



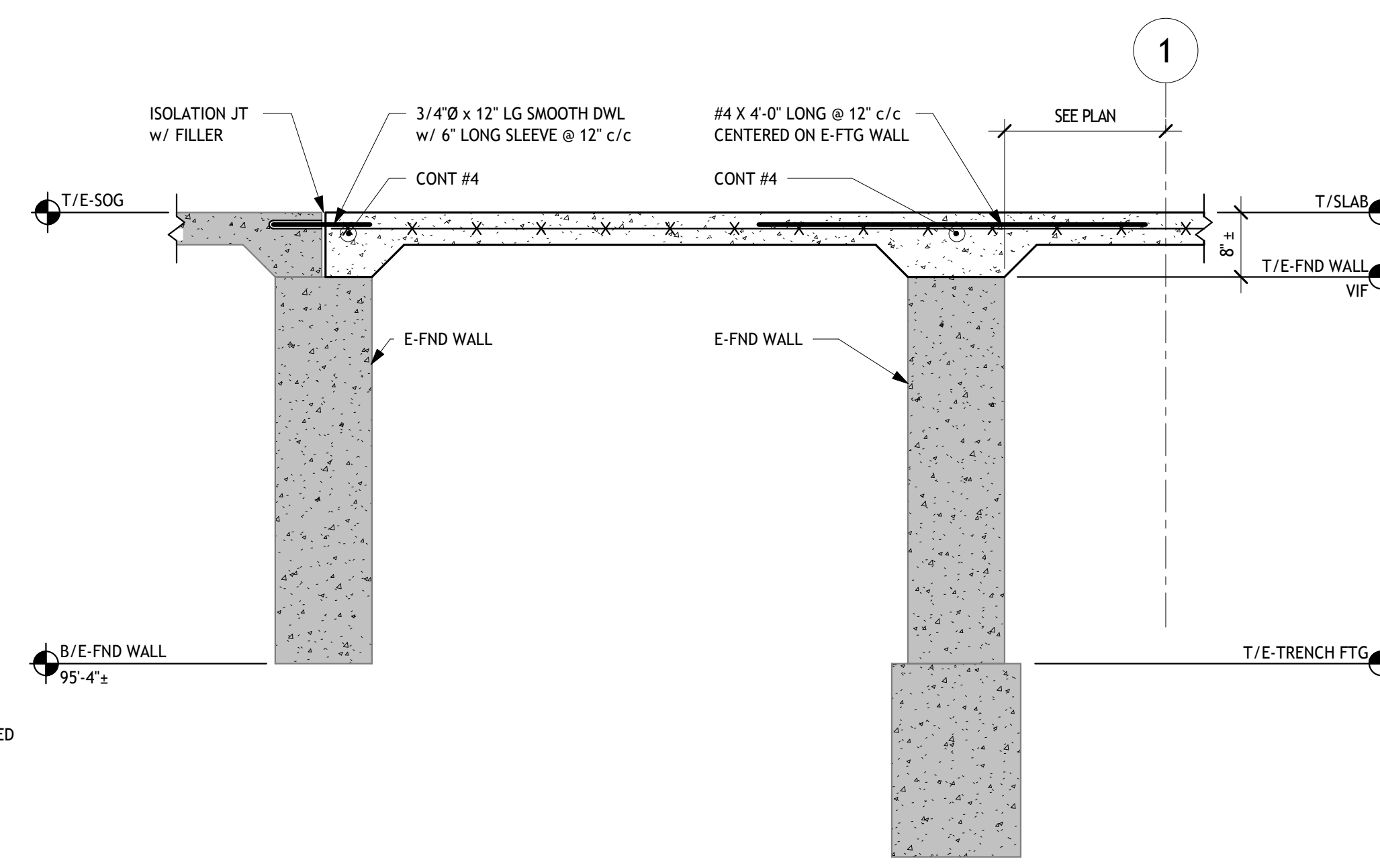
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S301 SECTION
3/4" = 1'-0"



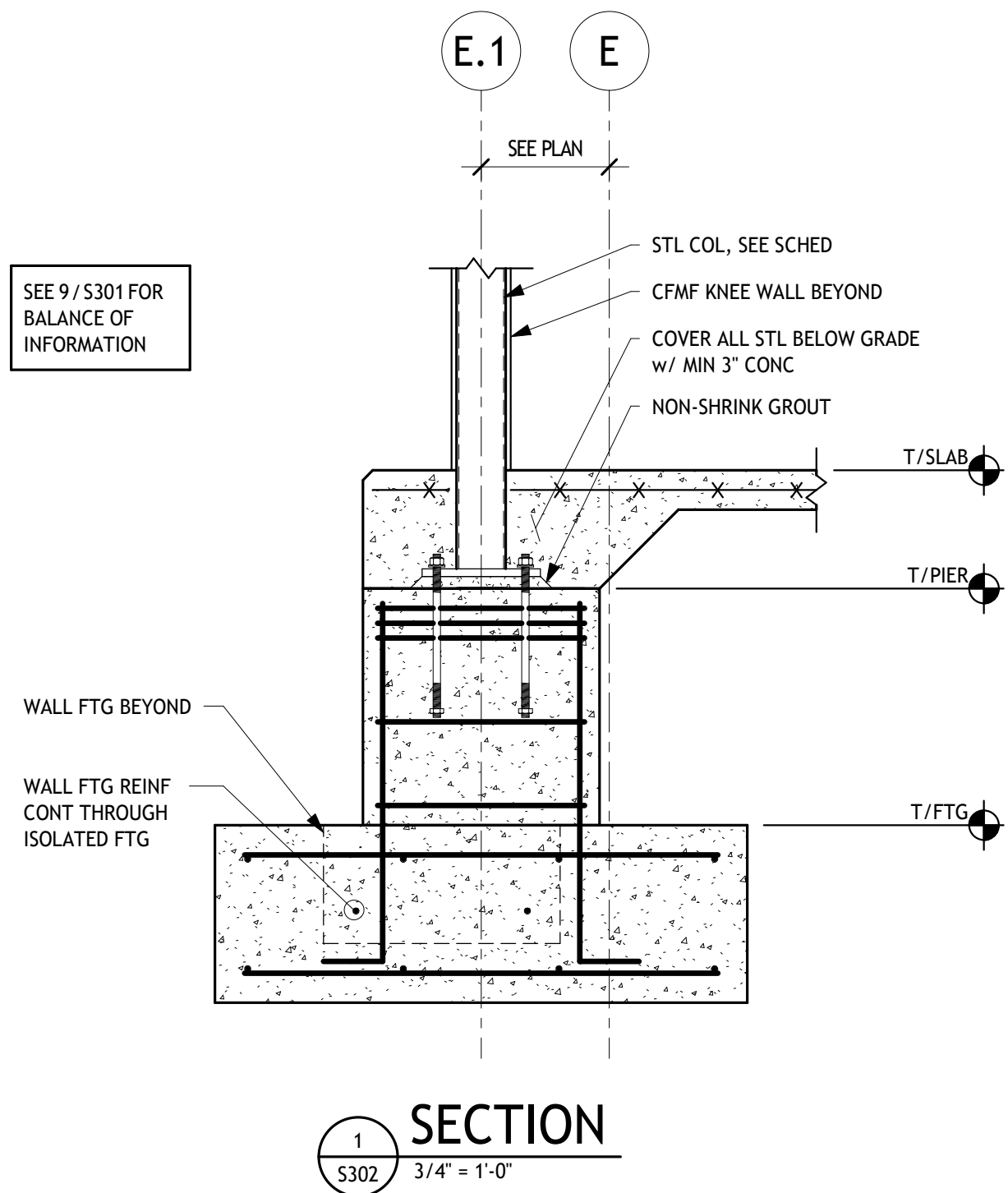
13 SECTION
S301 $3/4" = 1'-0"$



14
S301



15 SECTION
S301 $\frac{3}{4}" = 1'-0"$



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GREGORY WILBERT BARSCH

69430

REGISTERED PROFESSIONAL ENGINEER

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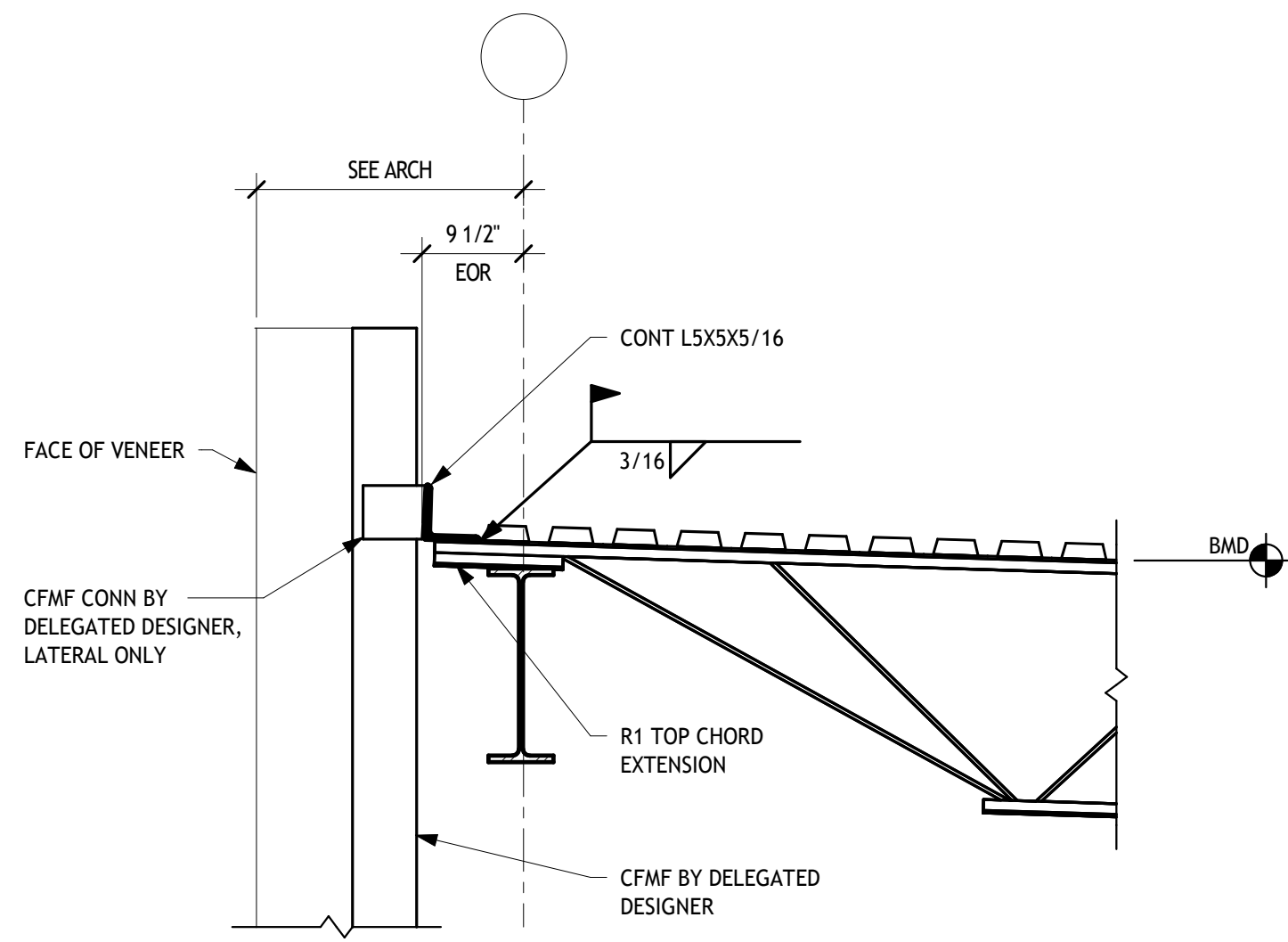
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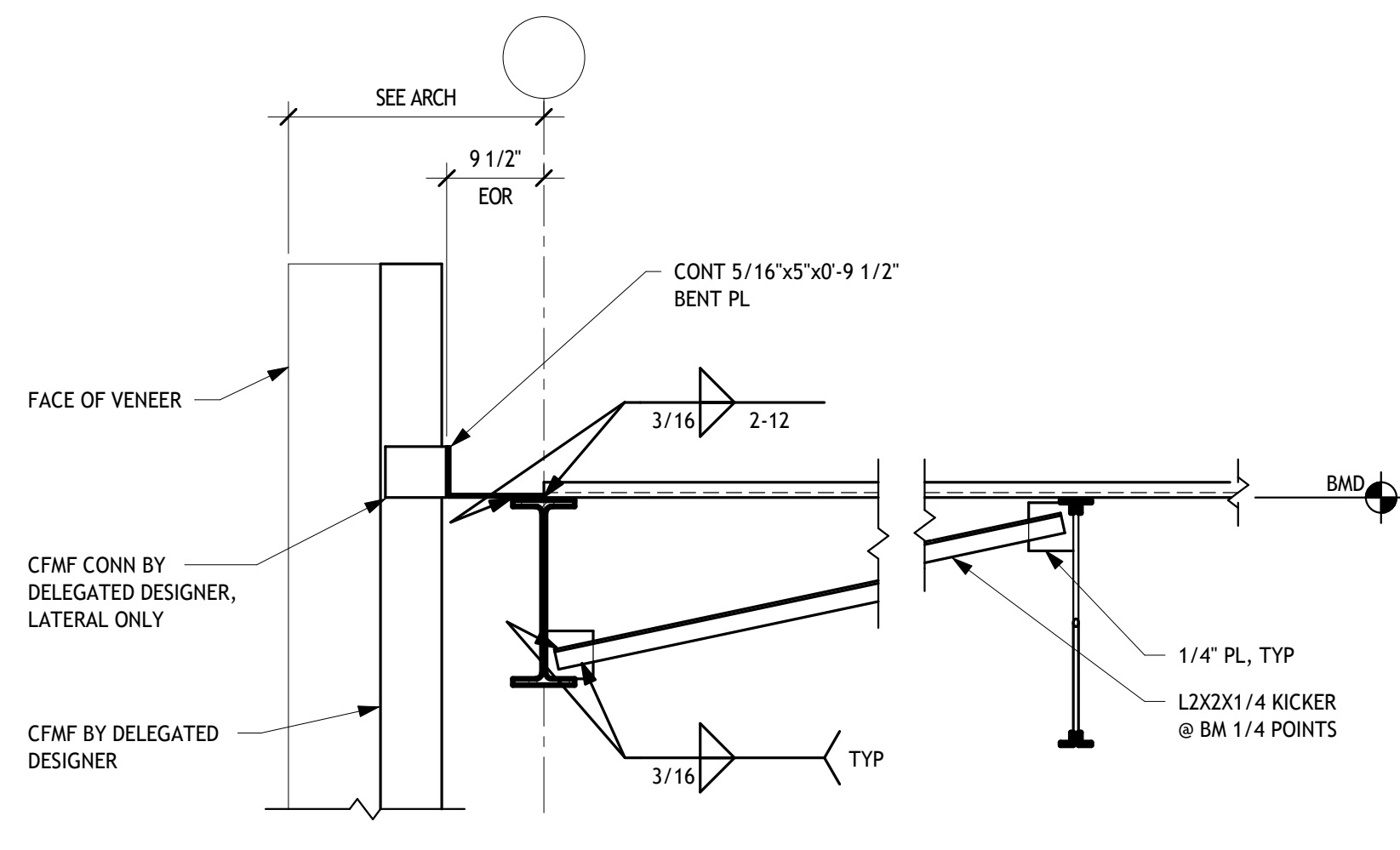
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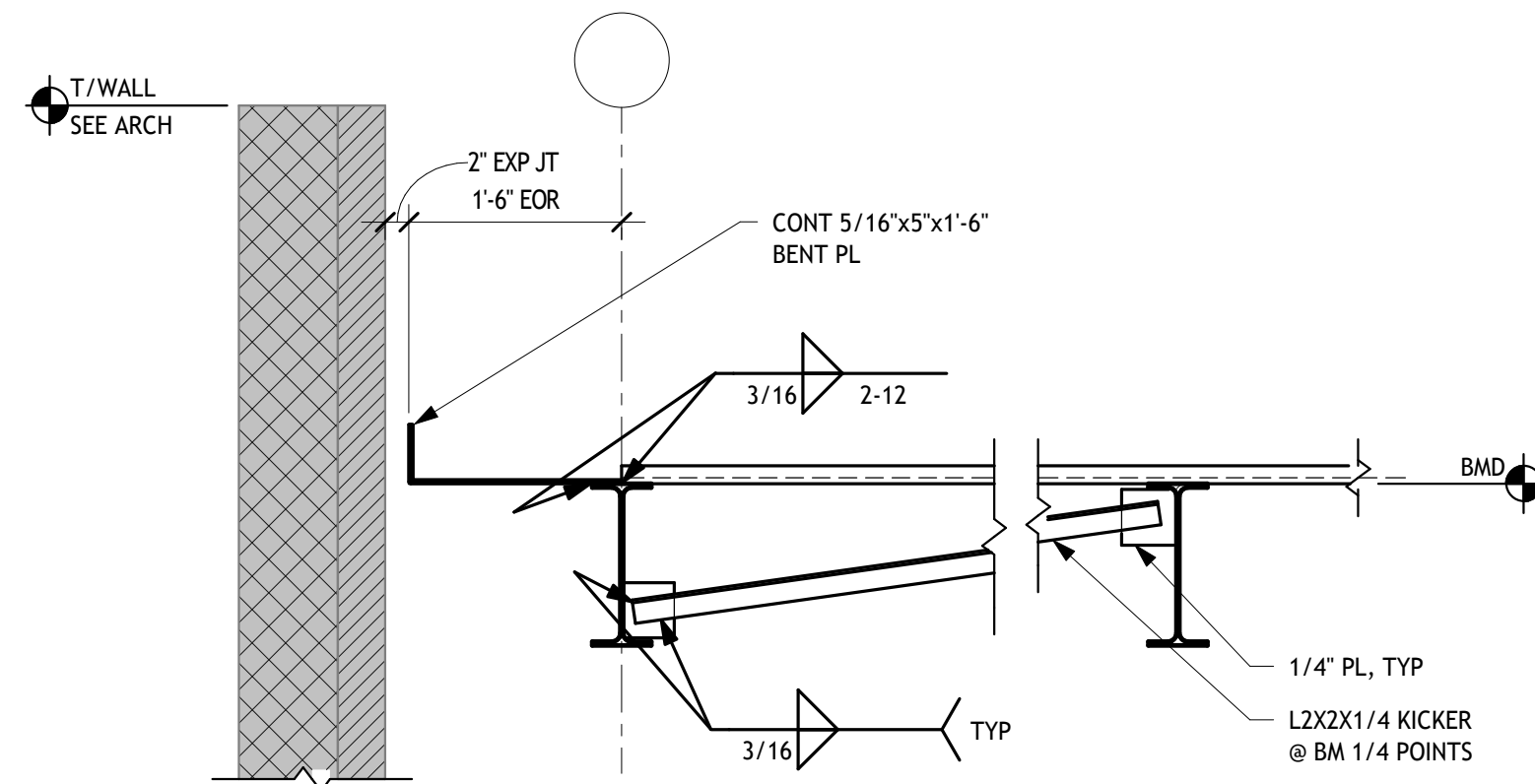
S302



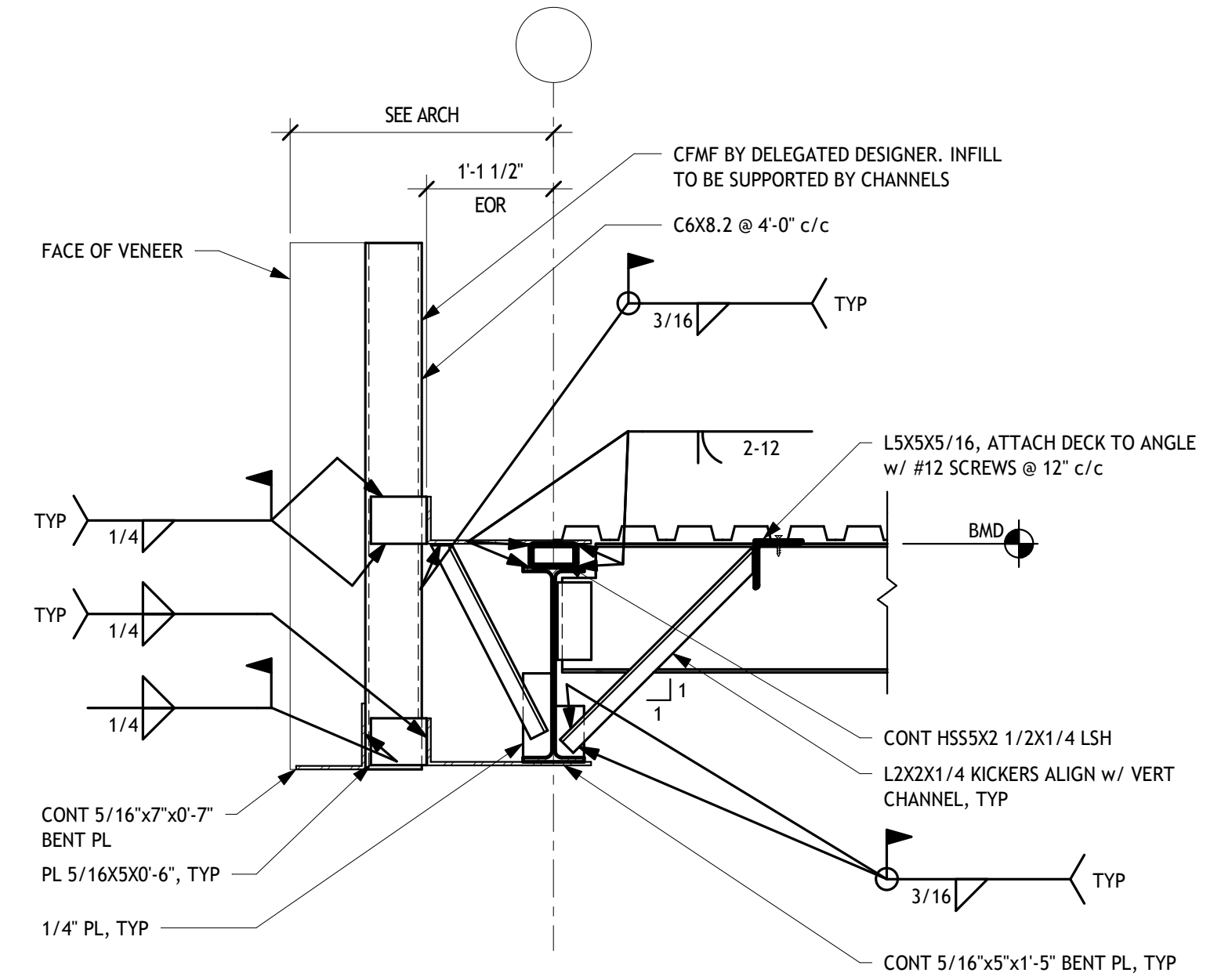
1 SECTION
S311 3/4" = 1'-0"



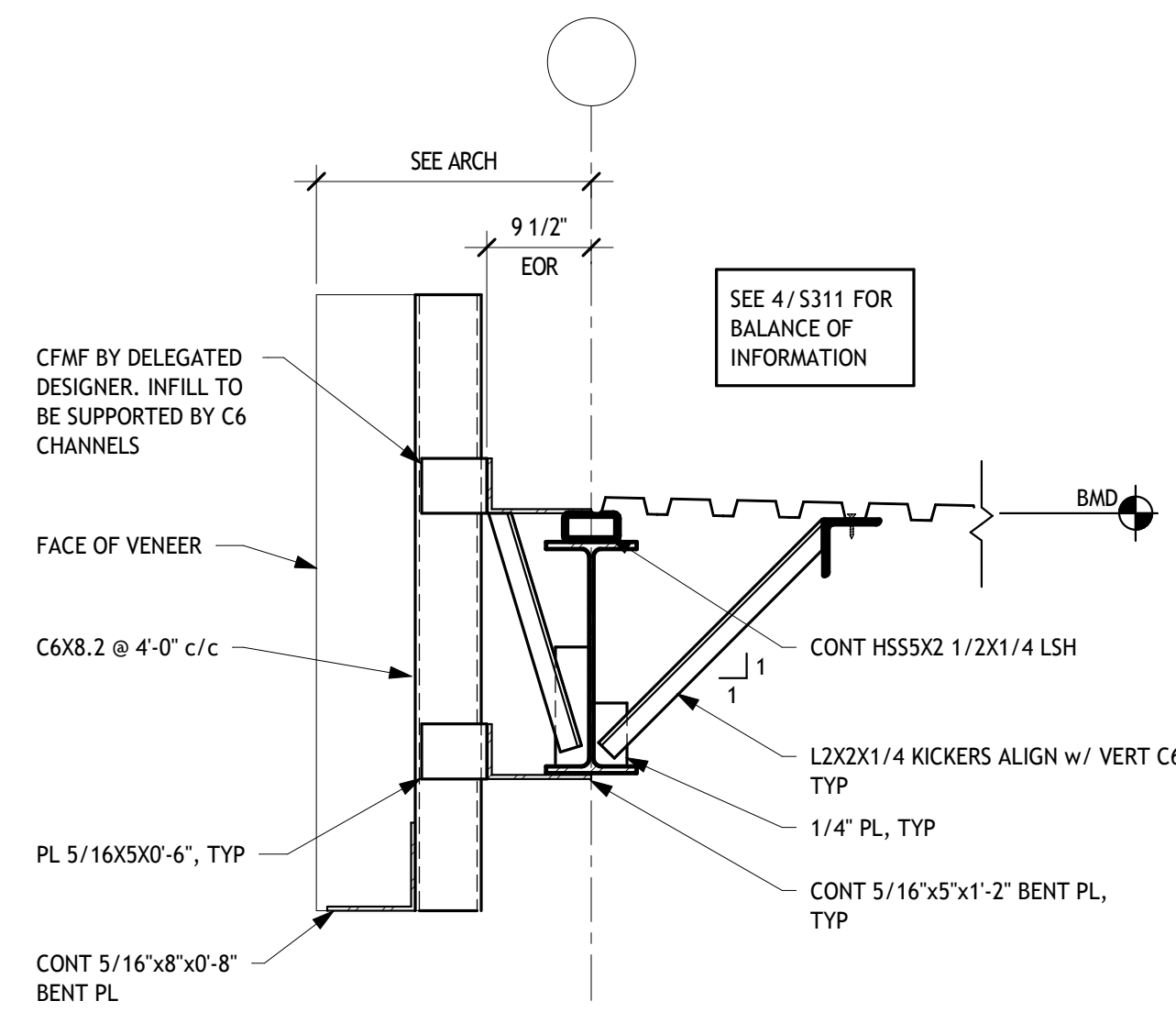
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S311 3/4" = 1'-0"



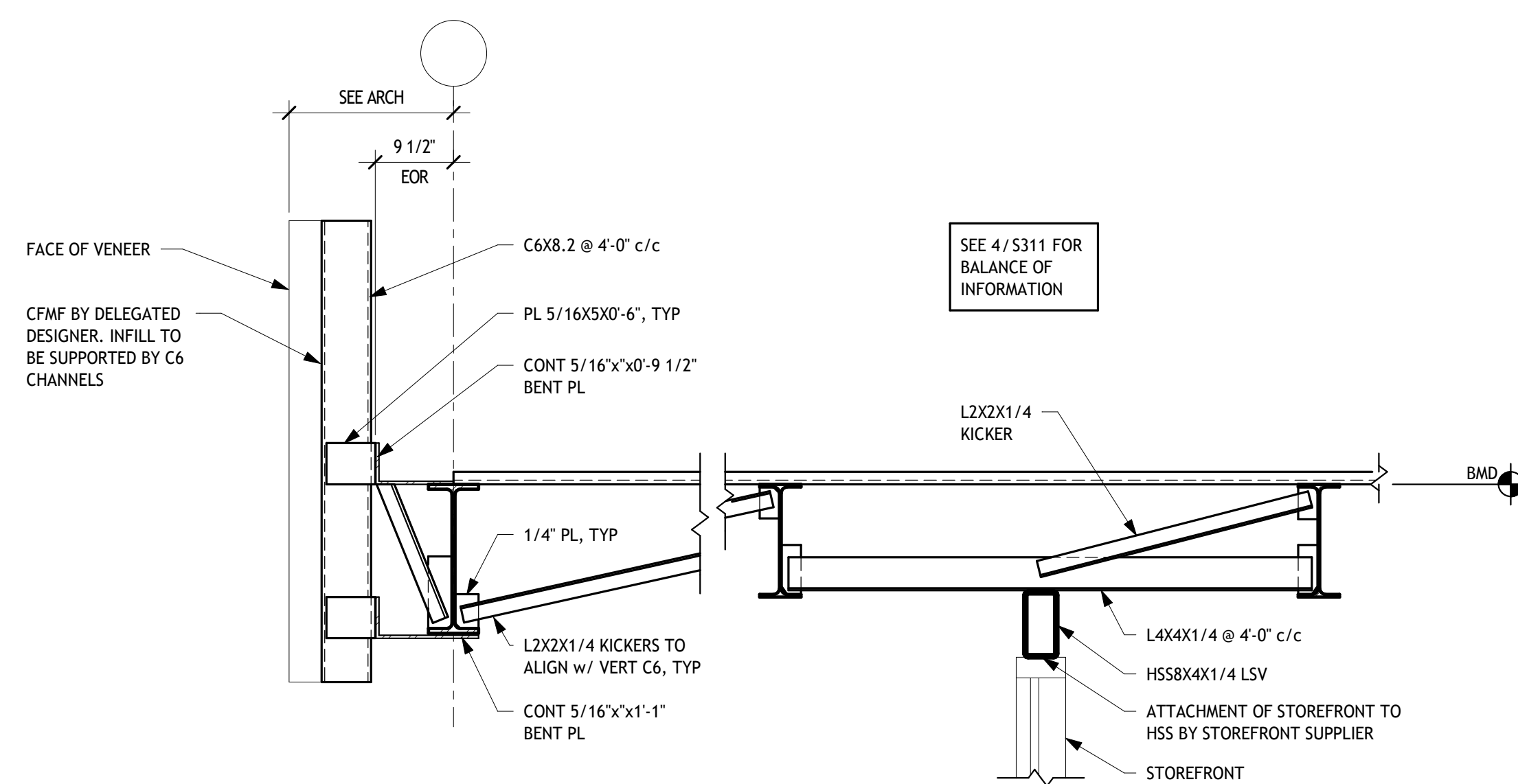
3 SECTION
S311 3/4" = 1'-0"



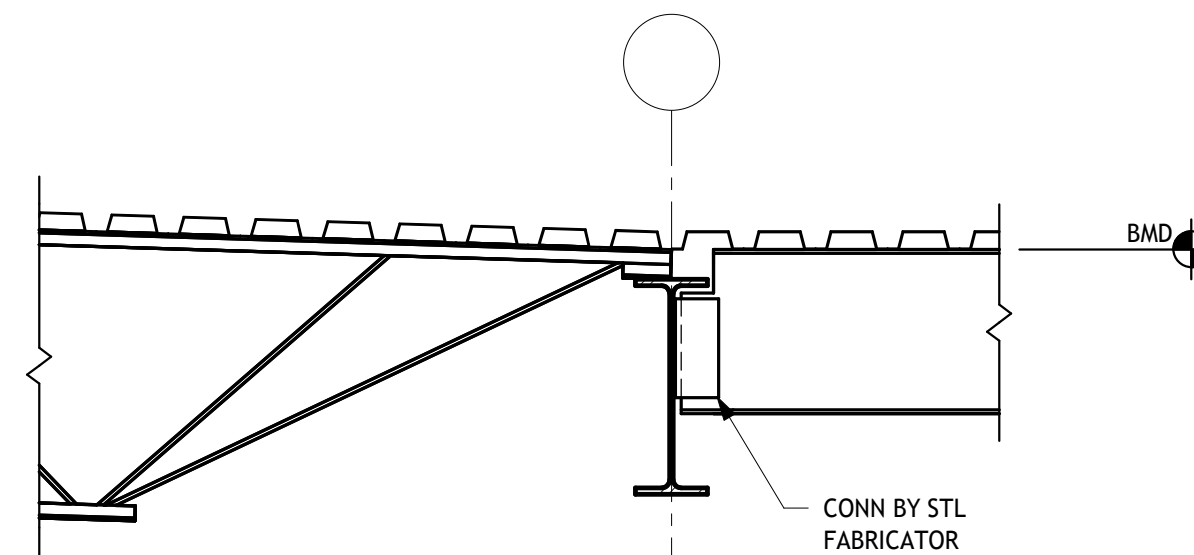
4 SECTION
S311 3/4" = 1'-0"



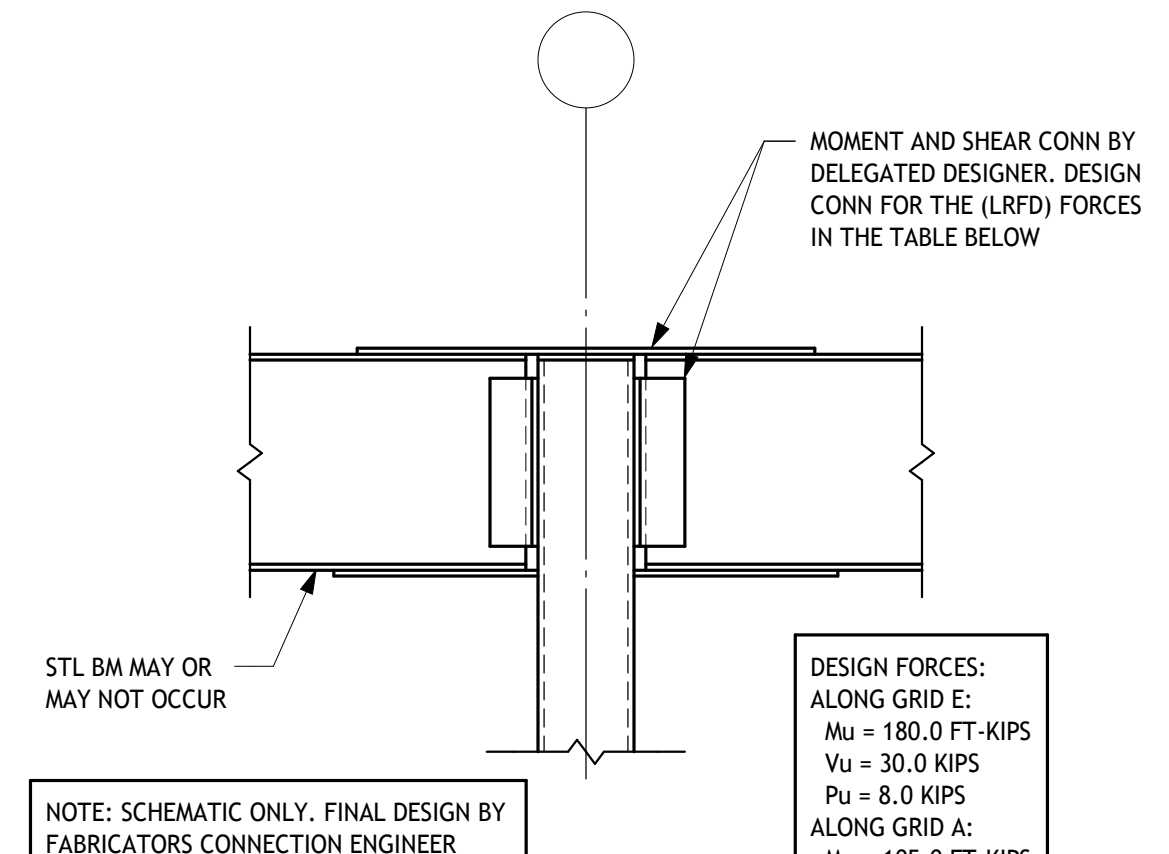
5 SECTION
S311 3/4" = 1'-0"



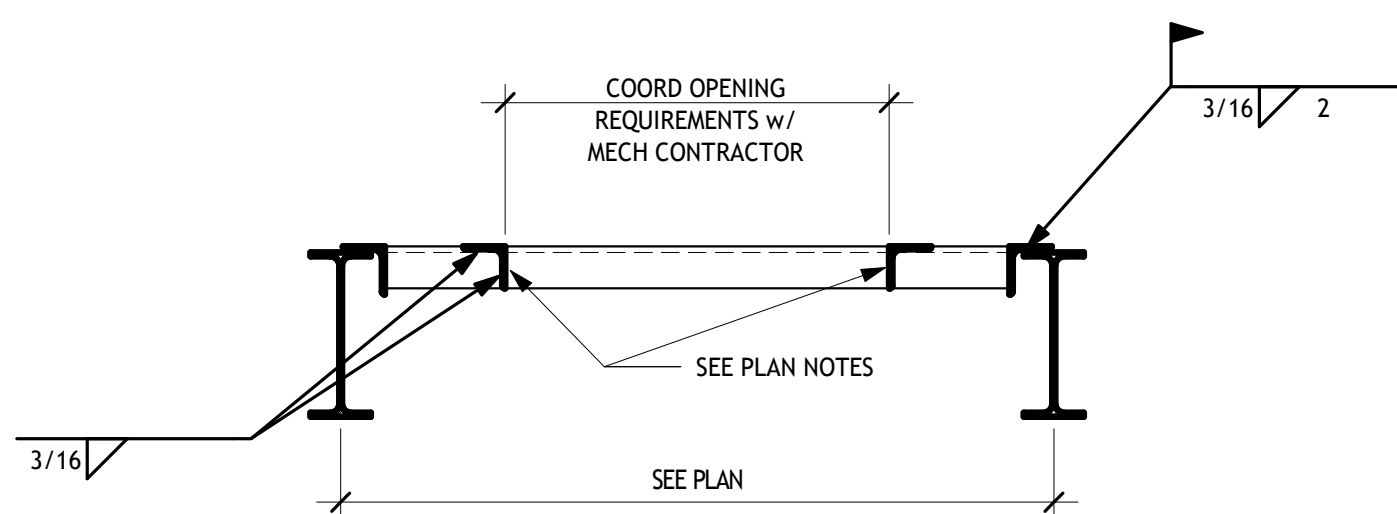
6 SECTION
S311 3/4" = 1'-0"



7 SECTION
S311 3/4" = 1'-0"

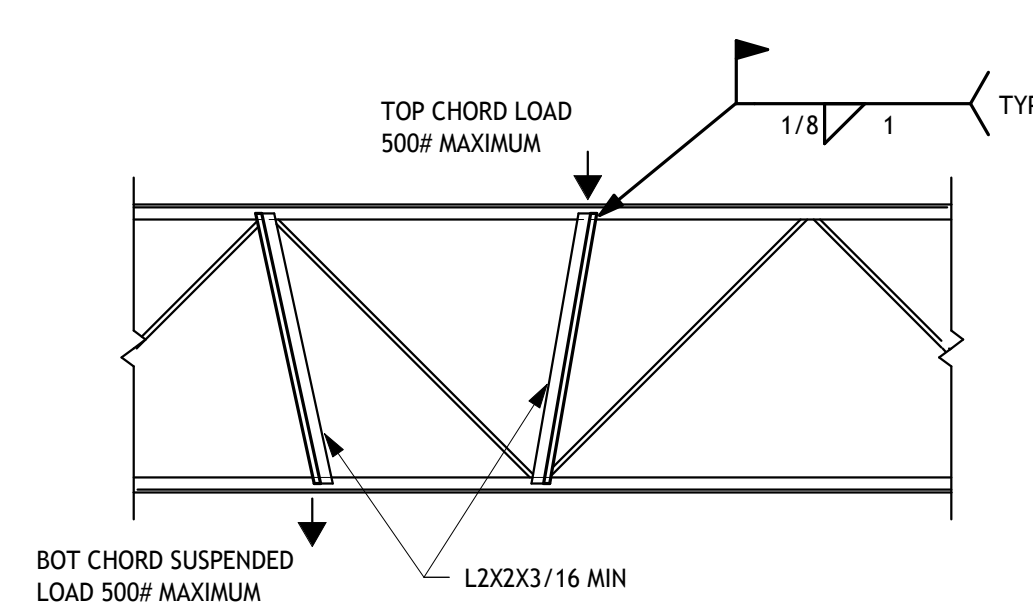


8 DETAIL
S311



9 DETAIL
S311

- NOTES:
1. SEE MECHANICAL DRAWING FOR LOCATIONS, SIZES, AND QUANTITIES OF ROOF OPENINGS AND CURBS.
 2. ALL WELDING TO JOIST TO BE DONE WITH CARE SO AS NOT TO IMPAIR THE STRENGTH OF THE JOIST.



10 DETAIL
S311

- NOTES:
1. CONCENTRATED MECH UNIT LOADS, FOLDING PARTITIONS, SUSPENDED LOADS, ETC. SHOULD BE LOCATED AT JOIST PANEL POINTS WHERE POSSIBLE. WHEN PANEL POINT IS NOT ACCESSIBLE, SUPPORT LOAD AS SHOWN.
 2. ALL WELDING TO JOIST IS TO BE DONE WITH CARE AS NOT TO IMPAIR THE STRENGTH OF THE JOIST.



Revisions:	Number	Description	Date

Printings:	Proj / Permit Set	09/15/2026

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PROJECT NO:	PROJECT	CHECKED BY:	DRAWN BY:	DATE:
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ROOF FRAMING
DETAILS AND
SECTIONS
S311

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

- ELEVATION REFERENCE SYMBOL:** A symbol consisting of a circle with a horizontal line through its center. The top half contains the letter 'X' and the bottom half contains the letters 'XXX'. An arrow points from the text 'DETAIL ID' to the 'X'. Another arrow points from the text 'SHEET REFERENCE' to the 'XXX'. A third arrow points from the text 'DIRECTION INDICATOR' to the circle's boundary.
- KEYNOTE REFERENCE SYMBOL:** A symbol consisting of a circle with a horizontal line through its center. The top half contains the letter 'X' and the bottom half contains the letters 'XXX'. An arrow points from the text 'KEYNOTE NUMBER' to the 'X'.
- CALLOUT REFERENCE SYMBOL:** A symbol consisting of a circle with a horizontal line through its center. The top half contains the letter 'X' and the bottom half contains the letters 'XXX'. An arrow points from the text 'DETAIL ID' to the 'X'. Another arrow points from the text 'SHEET REFERENCE' to the 'XXX'.
- ACCESS CONTROL/SECURITY DOOR SURROUND CALLOUT:** A symbol consisting of a dashed blue square.

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 like **A001** is constructed:

- A**: Access Control/Security Door
- 001**: Device Number

The diagram also shows how a tag like **T-501/1** is constructed:

- T**: Technology/Security Sheet
- 501**: Sheet Number
- 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
2	275123	WALL-MOUNTED ANALOG DUAL FACE CLOCK.
	275123	WALL-MOUNTED ANALOG SINGLE FACE CLOCK.
2	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.
2	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
--------------	------------

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. "F" SUBSCRIPT INDICATES QUANTITY OF CABLES/JACKS REQUIRED (Z INDICATES A BLANK FACEPLATE). REFER TO THE FACEPLATE DETAILS FOR ADDITIONAL INFORMATION.
	271500	DATA CEILING OUTLET. "F" SUBSCRIPT INDICATES QUANTITY OF CABLES/JACKS REQUIRED (Z INDICATES A BLANK FACEPLATE). REFER TO FACEPLATE DETAILS FOR ADDITIONAL INFORMATION.
	271500	DATA FLOOR OUTLET. "F" 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 HANSET ASSOCIATED WITH ADJACENT FACEPLATE. (REFER TO TELEPHONE SPECIFICATIONS FOR DETAILS). "F" SUBSCRIPT INDICATES QUANTITY OF HANSETS. NO SUBSCRIPT MEANS "1" HANSET.

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.
CEILING MOUNTED PROJECTOR	274119	CEILING-MOUNTED PROJECTOR. REFER TO THE CONNECTIVITY DETAILS FOR ADDITIONAL INFORMATION.
OT		SINGLE POLE DOUBLE THROW WALL SWITCH FOR PROJECTION SCREEN.
CEILING MOUNTED ELECTRIC PROJECTION SCREEN	274119	CEILING MOUNTED ELECTRIC PROJECTION SCREEN.
AUDIO VISUAL CAMERA W/BROADCASTING CAPABILITIES	274119	AUDIO VISUAL CAMERA W/BROADCASTING CAPABILITIES.
MONITOR WITH MOUNTING BRACKET -IF P INDICATES INTERACTIVE FLAT PANEL. COORDINATE WITH ARCHITECTURAL. INDICATES DISPLAY IS EQUIPPED WITH DIGITAL MEDIA PLAYER.	274119	AUDIO VISUAL CAMERA W/BROADCASTING CAPABILITIES.
AV RACK ENCLOSURE - WALL MOUNTED. SUBSCRIPT (X); (G) GYM; (AG) AUX GYM; (D) DINING; (T) THEATER; (N) NATATORIUM; (M) MUSIC; (I) INSTRUMENTAL; (V) VOCAL ROOM.	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) NATATORIUM; (M) MUSIC; (I) INSTRUMENTAL; (V) VOCAL ROOM.
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.	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.
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.	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.
WALL MOUNTED MICROPHONE OUTLET. SUBSCRIPT NUMBER INDICATES QUANTITY OF MIC OUTLETS REQUIRED. (BLANK IMPLIES ONLY ONE)	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)
MICROPHONE FLOOR OUTLET. SUBSCRIPT NUMBER INDICATES QUANTITY OF OUTLETS REQUIRED. (BLANK IMPLIES ONLY ONE) FLOOR BOX SPECIFIED ON THE POWER PLANS UNLESS OTHERWISE NOTED.	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.
HANGING MIC FROM CEILING. SUBSCRIPT (H) FOR HANGING; (A) FOR ARRAY.	274000, 274116, 274119, 275121, 275123, 275124, 275125, 275126, 275127	HANGING MIC FROM CEILING. SUBSCRIPT (H) FOR HANGING; (A) FOR ARRAY.
SOUND SYSTEM WALL MOUNTED DIGITAL MEDIA INPUT PLATE (1) HDMI, (1) USB, (1) MINI STEREO, (1) DISPLAY PORT.	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.
SOUND SYSTEM WALL MOUNTED DIGITAL MEDIA INPUT PLATE (1) HDMI.	274000, 274116, 274119, 275121, 275123, 275124, 275125, 275126, 275127	SOUND SYSTEM WALL MOUNTED DIGITAL MEDIA INPUT PLATE (1) HDMI.
WALL MOUNTED MONITOR SPEAKER OUTLET. SUBSCRIPT NUMBER INDICATES QUANTITY OF OUTLETS REQUIRED. (BLANK IMPLIES ONE)	274000, 274116, 274119, 275121, 275123, 275124, 275125, 275126, 275127	WALL MOUNTED MONITOR SPEAKER OUTLET. SUBSCRIPT NUMBER INDICATES QUANTITY OF OUTLETS REQUIRED. (BLANK IMPLIES ONE)
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.	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.
TOUCH PANEL - WALL MOUNTED AUDIO VIDEO CONTROL INTERFACE. WIRELESS SYMBOL ONLY INCLUDED IF TP IS WIRELESS.	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.
THEATER INTERCOM SPEAKER STATION. (TICM); PRODUCTION INTERCOM MAIN CONTROL.	274000, 274116, 274119, 275123, 275127	THEATER INTERCOM SPEAKER STATION. (TICM); PRODUCTION INTERCOM MAIN CONTROL.
PRODUCTION INTERCOM INPUT PLATE	274000, 274116, 274119, 275123, 275127	PRODUCTION INTERCOM INPUT PLATE
PUBLIC ADDRESS HORN. SUBSCRIPT "V" INDICATES THAT THE SPEAKER IS VOLUME CONTROLLED.	274000, 274116, 274119, 275123, 275127	PUBLIC ADDRESS HORN. SUBSCRIPT "V" INDICATES THAT THE SPEAKER IS VOLUME CONTROLLED.
SOUND SYSTEM HORN	274000, 274116, 274119, 275123, 275127	SOUND SYSTEM HORN
CLASSROOM SOUNDFIELD INFRARED RECEIVER.	274000, 274116, 274119, 275123, 275127	CLASSROOM SOUNDFIELD INFRARED RECEIVER.
WALL MOUNTED VOLUME CONTROL.	274000, 274116, 274119, 275121, 275123, 275124, 275125, 275126, 275127	WALL MOUNTED VOLUME CONTROL.
CEILING MOUNTED SOUND MASKING EMITTER.	274000, 274116, 274119, 275121, 275123, 275124, 275125, 275126, 275127	CEILING MOUNTED SOUND MASKING EMITTER.
CEILING MOUNTED WIRELESS MICROPHONE ANTENNA. (X INDICATES NUMBER DESIGNATION).	274000, 274116, 274119, 275121, 275123, 275124, 275125, 275126, 275127	CEILING MOUNTED WIRELESS MICROPHONE ANTENNA. (X INDICATES NUMBER DESIGNATION).
WALL MOUNTED WIRELESS MICROPHONE ANTENNA. (X INDICATES NUMBER DESIGNATION).	274000, 274116, 274119, 275121, 275123, 275124, 275125, 275126, 275127	WALL MOUNTED WIRELESS MICROPHONE ANTENNA. (X INDICATES NUMBER DESIGNATION).
ASSISTED LISTENING INFRARED TRANSMITTER. SUBSCRIPT (X) (W) WIFI; (U) UHF.	274000, 274119, 275123, 275124, 275127	ASSISTED LISTENING INFRARED TRANSMITTER. SUBSCRIPT (X) (W) WIFI; (U) UHF.

SYMBOL	SECTION	DESCRIPTION
IC	281523	INTERCOM DOOR STATION
IC	281523	INTERCOM DOOR STATION W/VIDEO
IM	281523	MASTER INTERCOM DOOR STATION
ES	284800	EMERGENCY CALL STATION
CR X or))	281300	CARD READER, SUBSCRIPT (X); (L) LONG RANGE; (VP) VEHICULAR PEDESTAL; OR WIRELESS SHOWN WITH WIRELESS SYMBOL.
CP	281300	CARD READER WITH PIN PAD
B	281300	BIOMETRIC READER DEVICE ("_" INDICATES F-FINGER, H-HAND, I-IRIS, S-SIGNATURE, V-VOICE)
DR	281300	DOOR RELEASE STATION
EL	281300	ELECTRIC LOCK
ML	281300	MAGNETIC LOCK
DC	281300	DOOR CONTACT
RX)	281300	REQUEST TO EXIT MOTION
RX	281300	REQUEST TO EXIT PUSH BUTTON
LS	281300	LOCAL SOUND
SD	281300	SCREENING DEVICE
WL	281300	WIRELESS LOCK
MH	281300	MAGNETIC DOOR HOLD
DH	281300	ELECTRIC DOOR HOLD/CLOSER
WG	281300	WIRELESS LOCK GATEWAY
ACP	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
OR		CAMERA POLE MOUNT
		CAMERA PARAPET/TELESCOPIC MOUNT
		CAMERA CEILING MOUNT (NO MOUNTING SYMBOL)

SYMBOL	SECTION	DESCRIPTION
DB	281600	DURESS BUTTON
LD	281600	LOCK DOWN BUTTON
KS	281600	KEY SWITCH
KP	281600	ARM/DISARM KEYPAD
MD	281600	MOTION DETECTOR
MD	281600	MOTION DETECTOR - CEILING MOUNTED
GB	281600	GLASS BREAK SENSOR
GB	281600	GLASS BREAK SENSOR - CEILING MOUNTED
VS	281600	VIBRATION SENSOR
VS	281600	VIBRATION SENSOR - CEILING MOUNTED

NOT ALL SYMBOLOGY MAY BE USED

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 51.23.01.O2.A.1-6
E-02	IP clocks (11 scheduled): TP-138 through TP-149)	D27	D27	D27	D27	27 53.13.01.O2.C; T103 keyed note 8, T603
E-03	Conduit, outlet boxes and terminal cabinets for the clock system.	D26	D26	-	-	27 53.13.01.O2.C
E-04	Classroom sound reinforcement: mins, receiver/amplifier, sound-field speakers, charging stations	D27	D27	D27	D27	27 51.27.01.O1.A.1-3-8
E-05	Power receptacles serving classroom audio equipment	D26	D26	D26	-	27 51.27.01.O1.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 13.00.01.O1.A.1
F-02	Credentialed readers (13 scheduled)	D28	D28	D28	D28	T150 access control riser (credential reader by this contractor); 28 13.00.01.O1.A.1
F-03	Door position switches	D28	D28	D28	D28	T150 riser (DPS by this contractor) vs. T150 integrated security detail (by others)
F-04	Electrified locks, strikes, magnetic locks and exit devices	D08	D08	D28	D28	28 13.00.01.O1.A.3.a and 4206-2.08 (Section 08 71.00)
F-05	Request-to-exit (REX) devices	D08	D08	D28	D28	28 13.00.01.O1.A.3.a vs. T602 door schedule
F-06	Power transfer hinges	D08	D08	-	-	28 13.00.01.O1.A.3.a vs. T602 door schedule
F-07	Local pullbox at each controlled opening	GC/Other	GC/Other	-	-	T150 access control riser diagram
F-08	Door hardware cabling at the opening.	D08	D28	D28	-	T150 access control riser diagram
F-09	Hybrid cable (reader data, REX, door position, power) to the local control panel	D28	D28	D28	-	T150 access control riser diagram
F-10	Access control power supplies (UL 234, battery-backup)	D08	D08	D08	D08	28 13.00.02.09
F-11	120 VAC service to ACS power supplies and head-end	D26	D26	D26	-	28 13.00.01.O1.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 13.00.02.04.B and 62.09.A.4
F-13	ACS to VMS bi-directional integration	D28	-	-	D28	28 13.00.02.15.A; 28 23.09.01.O5.F
G. Video Surveillance (28 23.00)						
G-01	Cameras, mounts, enclosures and camera licenses (11 scheduled)	D28	D28	D28	D28	28 23.00.01.05.6, 9.17, 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 23.00.02.08; 27.09; 01.05.C
G-04	Dedicated 20A or 30A isolated-ground branch circuit with two-wire racehead for the VSS head-end	D26	D26	D26	-	28 23.00.02.15.A
G-05	VSS head-end UPS (LifePO4)	D28	D28	D28	D28	28 23.00.02.15.B
G-06	Backing or blocking at camera mounting surfaces	GC/Other	GC/Other	-	-	28 23.00.01.01.B
H. Intrusion Detection (28 16.00)						
H-01	Control panel, expansion modules, keypads, annunciators and initiating devices	D28	D28	D28	D28	28 16.00.01.03.01.1-7; T403 keyed note X12
H-02	Communicators and supervising station signal paths (IP plus cellular)	D28	D28	D28	D28	28 16.00.02.08.A.1-3
H-03	Dedicated, mechanically secured 120 VAC circuit to intrusion power supplies	D26	D26	D26	-	28 16.00.02.07.A
I. Security Cabling & General Security (28 05.13 / T003)						
I-01	Composite and individual security cable, OSDP cable, end-of-line	D28	D28	D28	-	28 05.13.01.O2.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 conduits 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 05.13.01.08.A
J. ERCS (28 48.00) - Design-Build						
J-01	Complete ERCS design, equipment, installation, commissioning, A/EI approval and permitting	D28	D28	D28	D28	28 48.00.01.02.C
J-02	Dedicated 120V/20A circuit from the life-safety / standby generator to the ERCS head-end	Owner	Owner	Owner	-	28 48.00.01.02.D.1
J-03	Telecommunications grounding busbar (TGB) at the ERCS head-end	Owner	Owner	Owner	-	28 48.00.01.02.D.2
J-04	Building penetrations, sleeves and firestopping for ERCS pathways	D07	D07	-	-	28 48.00.01.02.D.3
J-05	FACP module space and supervising addressing for ERCS interface points	Owner	Owner	Owner	-	28 48.00.01.02.D.4
J-06	Building, security and roof access for survey and installation	Owner	-	-	-	28 48.00.01.02.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 Note 4
K-03	Rack and cabinet placement verification with the Owner	D27	-	-	-	T003 General Note 14
K-04	Outage / disruption reports, two weeks written notice	D27	-	-	-	T003 General Note 11
K-05	Wireless access point location adjustment after site verification survey	D27	D27	-	-	T003 General Note 15

3R	NEMA 3R ENCLOSURE
4X	NEMA 4X ENCLOSURE
A	AMPERES
AC	ABOVE COUNTER
ACS	ACCESS CONTROL SYSTEM
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AL	ALUMINUM
ALT	ALTERNATIVE BID OPTIONS
ANNUN	ANNUNCIATOR
ARCH	ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
AVOIP	AUDIO VISUAL OVER INTERNET PROTOCOL
AWG	AMERICAN WIRE GAUGE
BFG	BELOW FINISHED GRADE
BKBD	BACKBOARD
BLDG	BUILDING
BOTT	BOTTOM
C	CONDUIT
C/B	CIRCUIT BREAKER
C/T	CURRENT TRANSFORMERS
CAB	CABINET
CAT	CATEGORY
CATV	COMMUNITY ANTENNA TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CKT	CIRCUIT
CLG	CEILING
CLST	CLOSET

CO	COMMUNICATIONS OUTLET
COAX	COAXIAL
COMM	COMMUNICATIONS
CT	CABLE TRAY
CU	COPPER
DC	DIRECT CURRENT
DEG	DEGREE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DIA	DIAMETER
DISC	DISCONNECT
DIST	DISTRIBUTION
DN	DOWN
DP	DEEP OR DEPTH
DPDT	DOUBLE POLE DOUBLE THROW
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
EES	EARTH ELECTRODE SYSTEM
EF	ENTRANCE FACILITY
ELEC	ELECTRIC, ELECTRICAL
EMT	ELECTRIC METALLIC TUBING
EQUIP	EQUIPMENT
ER	EQUIPMENT ROOM
ESS	ELECTRONIC SAFETY & SECURITY
EXIST	EXISTING
FT	FEET
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPT
GND	GROUND
HH	HANDHOLE

IAW	IN ACCORDANCE WITH
IBC	INTERNATIONAL BUILDING CODE
IDF	INTERMEDIATE DISTRIBUTION
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
IP	INTERNET PROTOCOL
JB	JUNCTION BOX
KVA	KILOVOLT - AMPERES
KW	KILOWATTS
LAN	LOCAL AREA NETWORK
MAX	MAXIMUM
MC	MAIN CROSS-CONNECT
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MER	MAIN EQUIPMENT ROOM
MH	MAINTENANCE HOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MM	MULTIMODE FIBER
MNS	MASS NOTIFICATION SYSTEM
MON	MONITOR
MTD	MOUNTED
MTG	MOUNTING
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT CIRCUIT
NO	NORMALLY OPEN
NTS	NOT TO SCALE

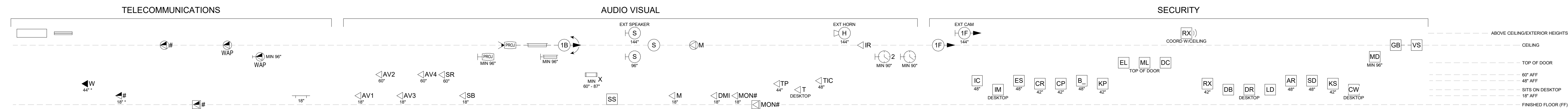
NAME

OC	ON CENTER
OFC	OPTIC FIBER CABLE
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
OICF	OWNER INSTALLED CONTRACTOR FURNISHED
OM3	LASER OPTIMIZED MULTIMODE, CLASS 3
OS	OCCUPANCY SENSOR
OSP	OUTSIDE PLANT
PB	PULL BOX
PBB	PRIMARY BUS BAR
PET	PROTECTED ENTRANCE TERMINAL
PR	PAIR
PT	POKE THRU
PTZ	PAN-TILT-ZOOM
PVC	POLYVINYL CHLORIDE
PWR	POWER
R	RECESSED
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RMC	RIGID METAL CONDUIT
RU	RACK UNIT
SBB	SECONDARY BUS BAR
SCR	SHORT CIRCUIT RATING
SCTP	SCREENED TWISTED PAIR
SF	SQUARE FEET
SHT	SHEET
SPEC	SPECIFICATIONS
SR	SOUND REINFORCEMENT
STD	STANDARD
SURF	SURFACE
TBD	TO BE DETERMINED

TEL	TELEPHONE
TER	TELECOMMUNICATIONS EQUIP. ROOM
TR	TELECOMMUNICATIONS ROOM
TV	TELEVISION
TYP	TYPICAL
U/G	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
WITH	WITH
WAP	WIRELESS ACCESS POINT
WP	WEATHERPROOF
WPG	WEATHERPROOF WITH GROUND
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
Y	WYE
Δ	DELTA

NOTES

- ALL DIMENSIONS SHOWN ARE ABOVE FINISHED FLOOR (AFF) OR ABOVE GRADE (AG) TO CENTERLINE OF COMPONENT.
- USE STANDARD MOUNTING HEIGHTS UON. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL MOUNTING HEIGHT DETAILS. PROJECT PLANS AND DETAILS MAY PROVIDE ADDITIONAL GUIDANCE.



NOT ALL SYMBOLOGY MAY BE USED

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

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

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

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

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

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

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

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

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

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

29 ALL WORK REQUIRING POWER OR COMMUNICATION OUTAGES OR DISRUPTION OF OWNER FUNCTIONS SHALL BE
30 COORDINATED WITH THE PROJECT ENGINEER, OWNER AND OWNER'S DEPARTMENT. REQUESTS FOR, NOTIFICATIONS OF,
31 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.

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

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.

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

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.

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.

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

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

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

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.

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

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

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.

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

ALL COMMUNICATIONS OUTLET BOXES SHALL BE A 4 1/16-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.

ALL EQUIPMENT SHALL BE NEW, UON.

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

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.

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

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.

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
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 (E.G. LOW LEVEL, AMP, LINE LEVEL, VIDEO, A/C, 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 CABLEING 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 IT'S 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/OR INTERACTIVE PROJECTOR SHALL BE PRESENT TO REVIEW MOCK-UP. PURPOSE
OF MOCK-UP IS TO CONFIRM 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 MEDIA 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 ANSII/TIA/EICS1 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, REVERSALS, 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 CABLEING 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 CABLEING 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 CABLEING MAY BE ROUTED IN THE SAME PATHWAY.

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

15 CABLEING 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 CABLEING SHALL BE PENUM RATED, UON. ANY LOW VOLTAGE DEVICE INSTALLED IN A PENUM-RATED ENVIRONMENT MUST BE RATED FOR PENUM USE.

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

18 ALL COMMUNICATIONS CABLEING 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 ANSII/TIA-606 ADMINISTRATION STANDARD FOR TELECOMMUNICATIONS INFRASTRUCTURE. PROVIDE LABELING FOR ALL MODULAR OUTLETS, FACEPLATES, PATCH PANELS, CABLES, PATCH CABLES, FIBER PULLER TRAYS, RACKS, CABINETS, PBB/SBB(S), ETC. REFER ELSEWHERE IN THE DRAWINGS AND SPECIFICATIONS FOR THE OWNER'S 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 REMODED 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
LOCATION OF EQUIPMENT PRIOR TO THE START OF WORK.
- 2 THE DRAWINGS FOR SECURITY WORK UTILIZE SYMBOLS AND SCHEMATIC DIAGRAMS WHICH HAVE NO DIMENSIONAL
SIGNIFICANCE. THE WORK SHALL THEREFORE BE INSTALLED TO FULFILL THE DIAGRAMMATIC INTENT EXPRESSED ON
THE SECURITY DRAWINGS. UTILITIES IN CONFORMITY WITH THE DIMENSIONS INDICATED ON THE FINAL WORKING
DRAWINGS, FIELD LAYOUTS, AND SHOP DRAWINGS OF ALL TRADES.
- 3 THE ORIENTATION OF THE SYMBOLS REFLECTS THE GENERAL MOUNTING LOCATION AND ORIENTATION OF THE
DEVICE. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE CM, ARCHITECT, AND ENGINEER PRIOR TO INSTALLATION
OF WORK IF ANY MOUNTING LOCATIONS NOTED ON THE DRAWINGS ARE OBSTRUCTED AND/OR IF ANY MOUNTING
LOCATION CONFLICTS OR PROBLEMS ARE DISCOVERED.
- 4 ALL COMPONENTS PROVIDED ARE TO BE LISTED FOR USE IN THE SYSTEM INDICATED INCLUDING, BUT NOT LIMITED TO:
UL294 STANDARD FOR ACCESS CONTROL SYSTEM UNITS
UL634 STANDARD FOR CONNECTORS AND SWITCHES FOR USE WITH BURGLAR-ALARM SYSTEMS UL639 STANDARD FOR
INTRUSION-DETECTION UNITS
UL1076 PROPRIETARY BURGLAR ALARM UNITS AND SYSTEMS
UL2044 STANDARD FOR COMMERCIAL CLOSED-CIRCUIT TELEVISION EQUIPMENT
UL2802 STANDARD FOR PERFORMANCE TESTING OF CAMERA IMAGE QUALITY
- 5 REFER TO COMMUNICATIONS AND ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE OF WORK.
- 6 THE ELECTRICAL CONTRACTOR SHALL PROVIDE 110 VAC INPUT POWER FOR POWER SUPPLIES. THE SECURITY
CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOW VOLTAGE EQUIPMENT NECESSARY FOR SECURITY HARDWARE
OPERATION.
- 7 ALL SECURITY INFRASTRUCTURE SHALL BE INSTALLED IN ENCLOSED METALLIC PATHWAYS SUCH AS CONDUIT,
ENCLOSED CABLE TRAY, AND ENCLOSED WIREWAYS TO THE ASSOCIATED SECURITY PANEL.
- 8 ALL ENCLOSURES AND INTRUSION DETECTION DEVICES WITH REMOVABLE COVERS SHALL HAVE TAMPER
PROTECTION DEVICES CAPABLE OF BEING MONITORED CONTINUOUSLY.
- 9 WHERE APPLICABLE, COORDINATE WITH ELEVATOR CONTRACTOR FOR SPECIAL CONDUCTORS IN THE TRAVEL CABLE
FOR ACCESS CONTROL, INTRUSION DETECTION, AND VIDEO SURVEILLANCE DEVICES.
- 10 ALL SECURITY CABLES SHALL BE FROM THE SAME MANUFACTURER AND LISTED FOR THE ENVIRONMENT THEY ARE
INSTALLED. FOLLOW ALL MANUFACTURER INSTRUCTION FOR VOLTAGE DROP AND DISTANCE. REFER TO
SPECIFICATIONS FOR CABLE TYPES.
- 11 JUNCTION BOXES FOR SECURITY CABLING SHALL HAVE TAMPER-PROOF SCREWS.
- 12 REFER TO THE SECURITY ONE-LINE DIAGRAMS AND DOOR ELEVATION DRAWINGS FOR ADDITIONAL GENERAL NOTES.
- 13 SECURITY EQUIPMENT SCHEDULES ARE PROVIDED AS A GUIDE. THE CONTRACTOR SHALL BE RESPONSIBLE TO
VERIFY ALL DEVICES IDENTIFIED AND PROVIDE THE APPROPRIATE NUMBER OF DEVICES AS IDENTIFIED ON THE FLOOR
PLANS.
- 14 THE CONTRACTOR SHALL PROVIDE CAMERA LICENSES FOR EACH NEW INSTALLED CAMERA.
THE CONTRACTOR IS RESPONSIBLE FOR INITIAL CAMERA AIMING, CAMERA PROGRAMING, AND FINAL CHECKOUT WITH
THE OWNER AND OWNER'S REPRESENTATIVE.
- 16 WHERE ADVANCED SECURITY SYSTEM INTEGRATION IS REQUIRED THE CONTRACTOR SHALL BE RESPONSIBLE FOR
COORDINATION ACTIVITIES BETWEEN THE ASSOCIATED SYSTEM PROVIDERS TO THE SATISFACTION OF THE OWNER
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 NEW 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 OUTLET BOXES 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 LIFTS 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 DOCUMENTS. 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. DO NOT MAKE UNNECESSARY 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.

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

RCDD

Christy Miller

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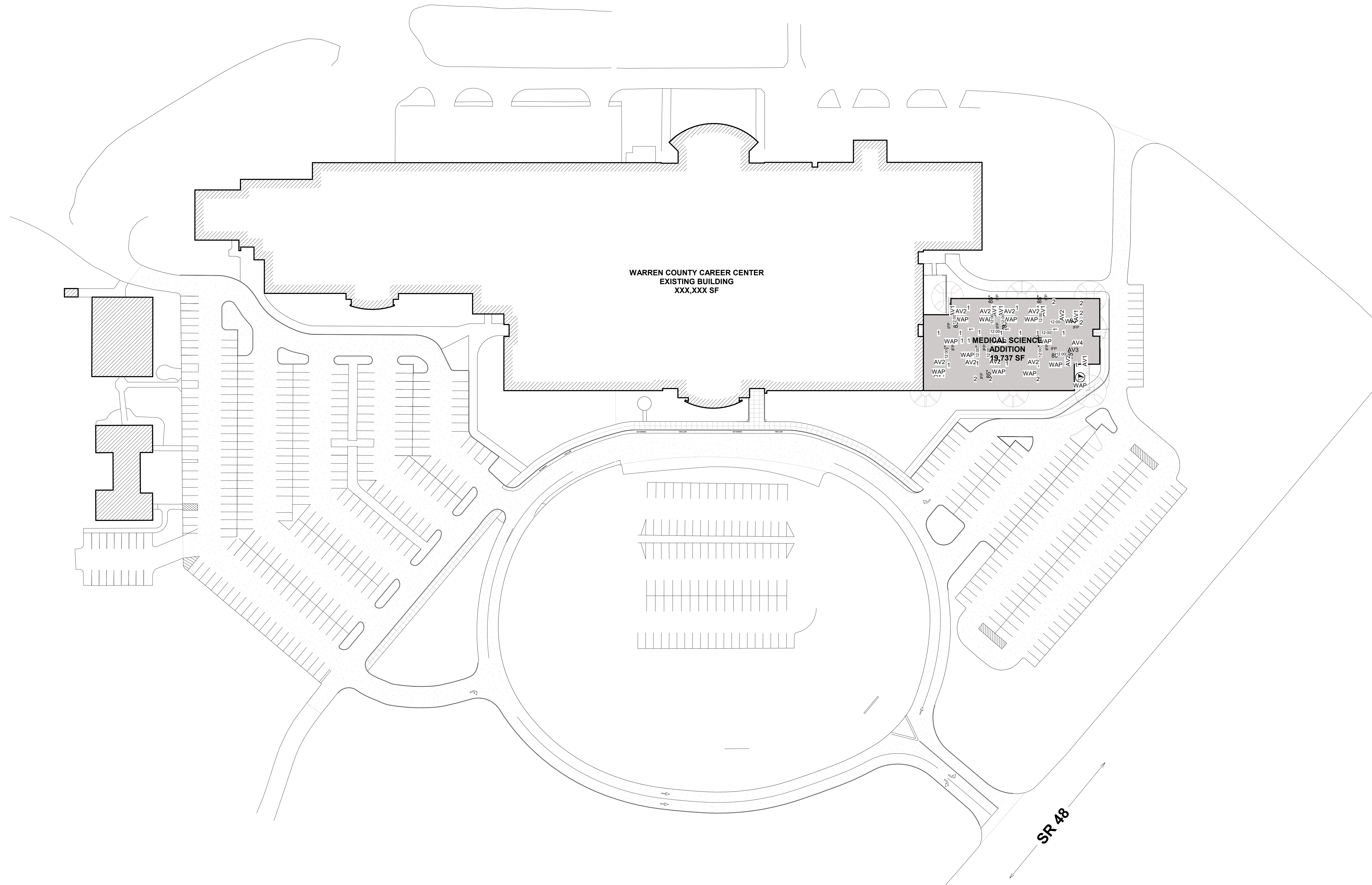
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TECHNOLOGY SITE
PLAN

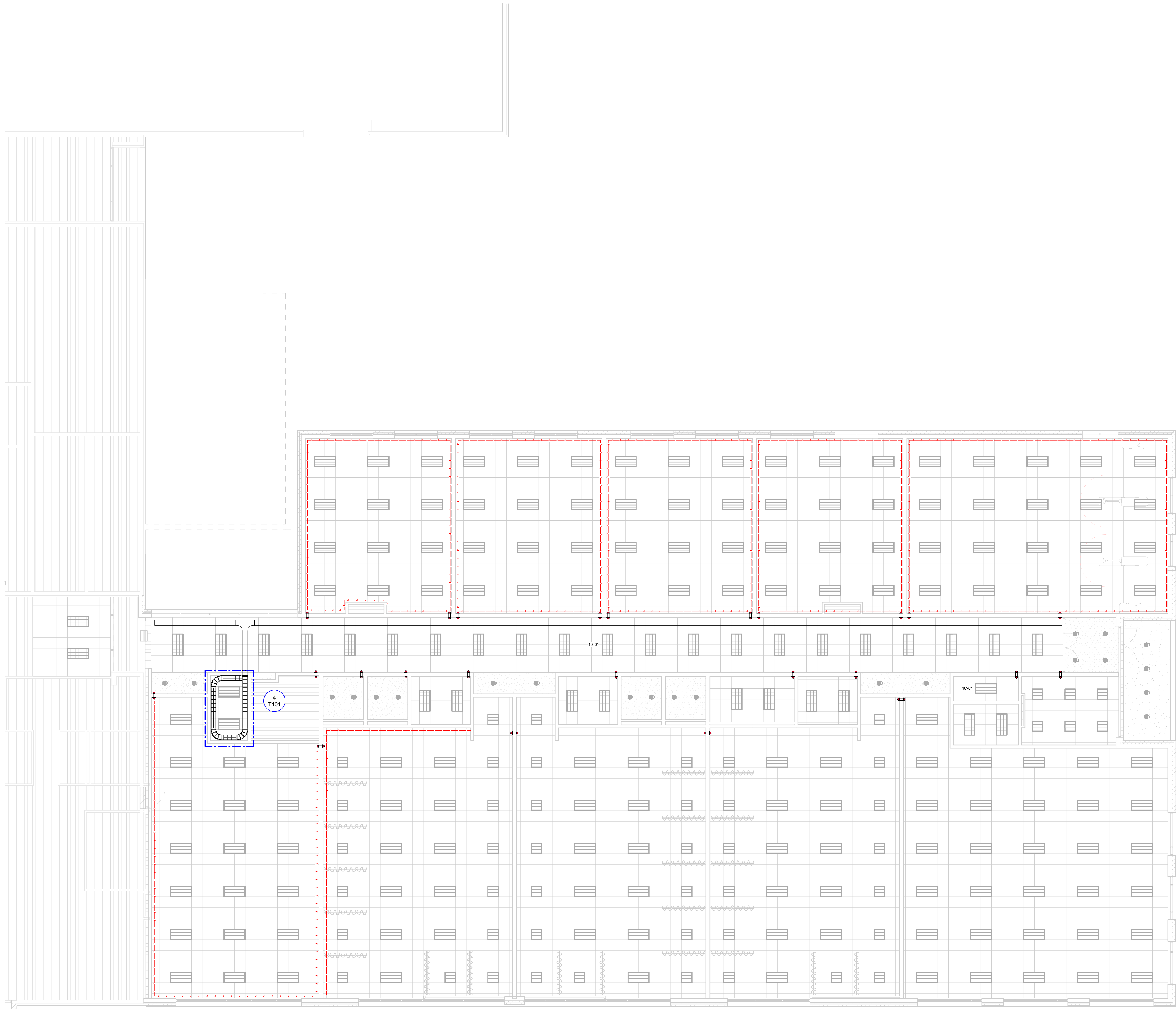
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SR 48

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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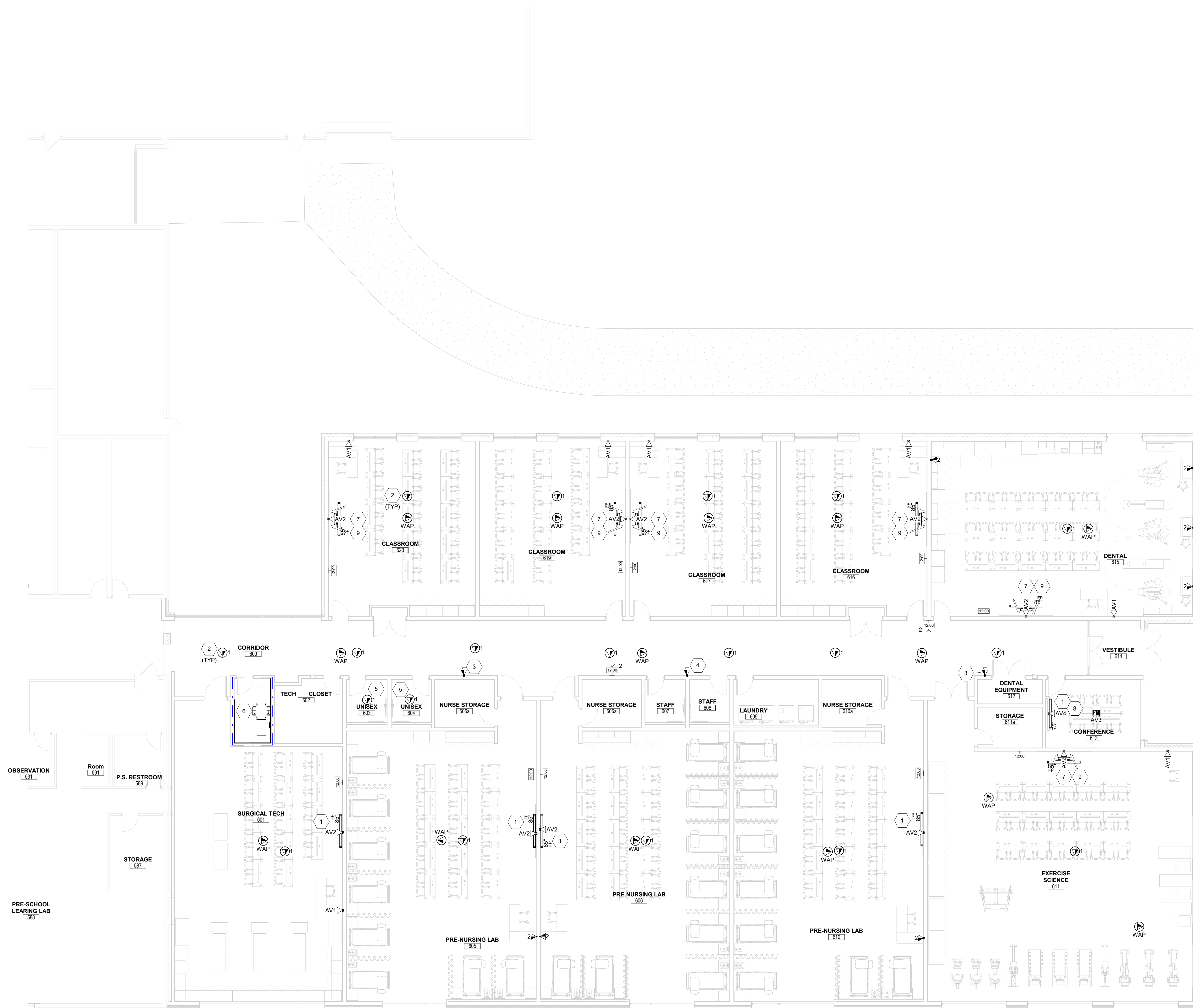
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PATHWAY RCP
T011



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

- | | |
|----|--|
| 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 |
| 5 | TERMINATIONS. |
| 6 | ONE (1) CATEGORY CABLE FOR FUTURE CEILING |
| 7 | MOUNTED VAPE DETECTOR. |
| 8 | 12 STRAND MULTIMODE OM4 ARMORED FIBER FROM MDF. |
| 9 | AV2 MOUNTED @ 18" AFF. |
| 10 | VIDEO CONFERENCE BAR PER SPEC SECTION 274119. |
| 11 | OWNER FURNISHED VIDEO CART. SOUND BAR TO BE |
| 12 | PROVIDED BY CONTRACTOR. |

—continued—



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TECHNOLOGY
ENLARGED FLOOR
PLAN

T101

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

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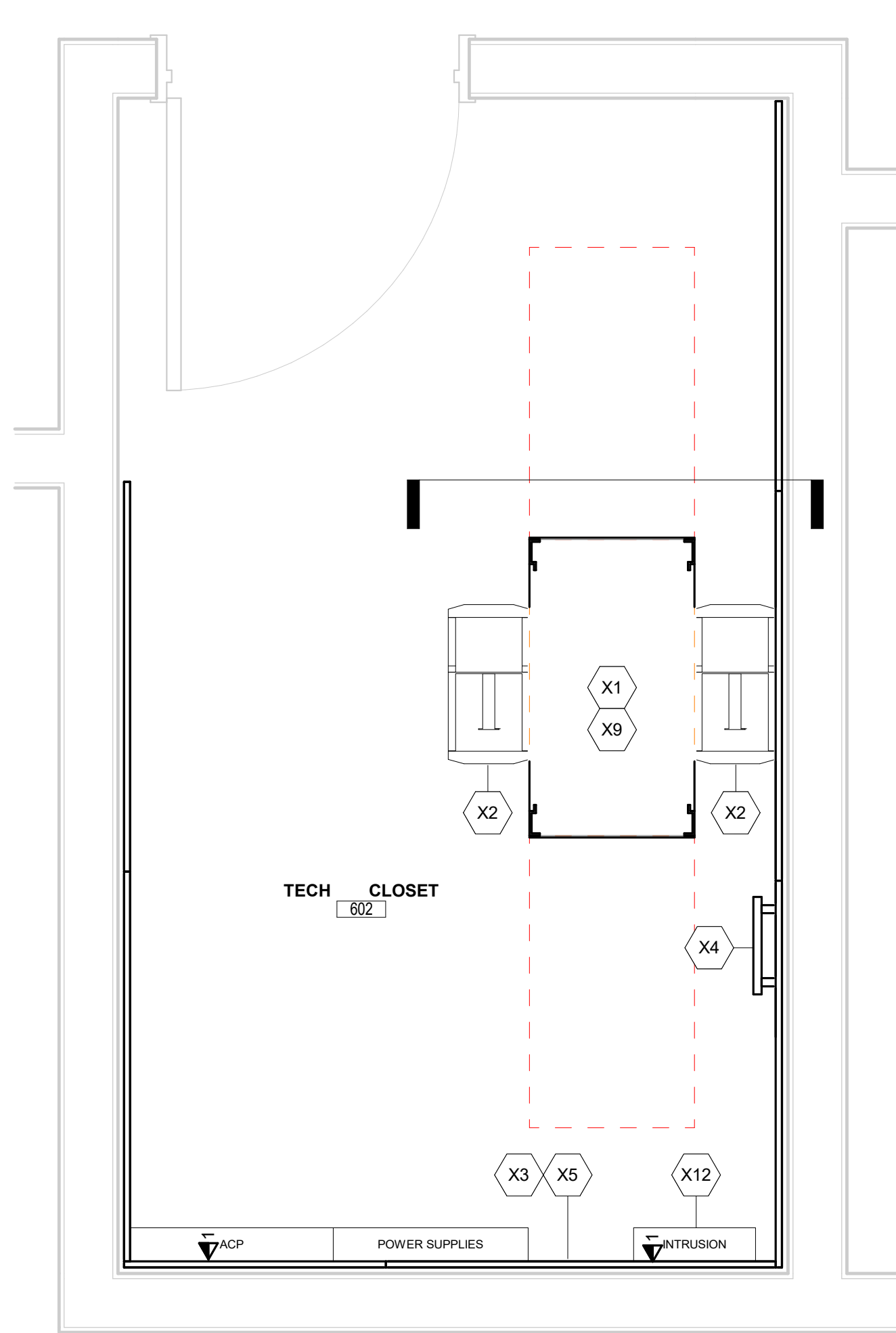
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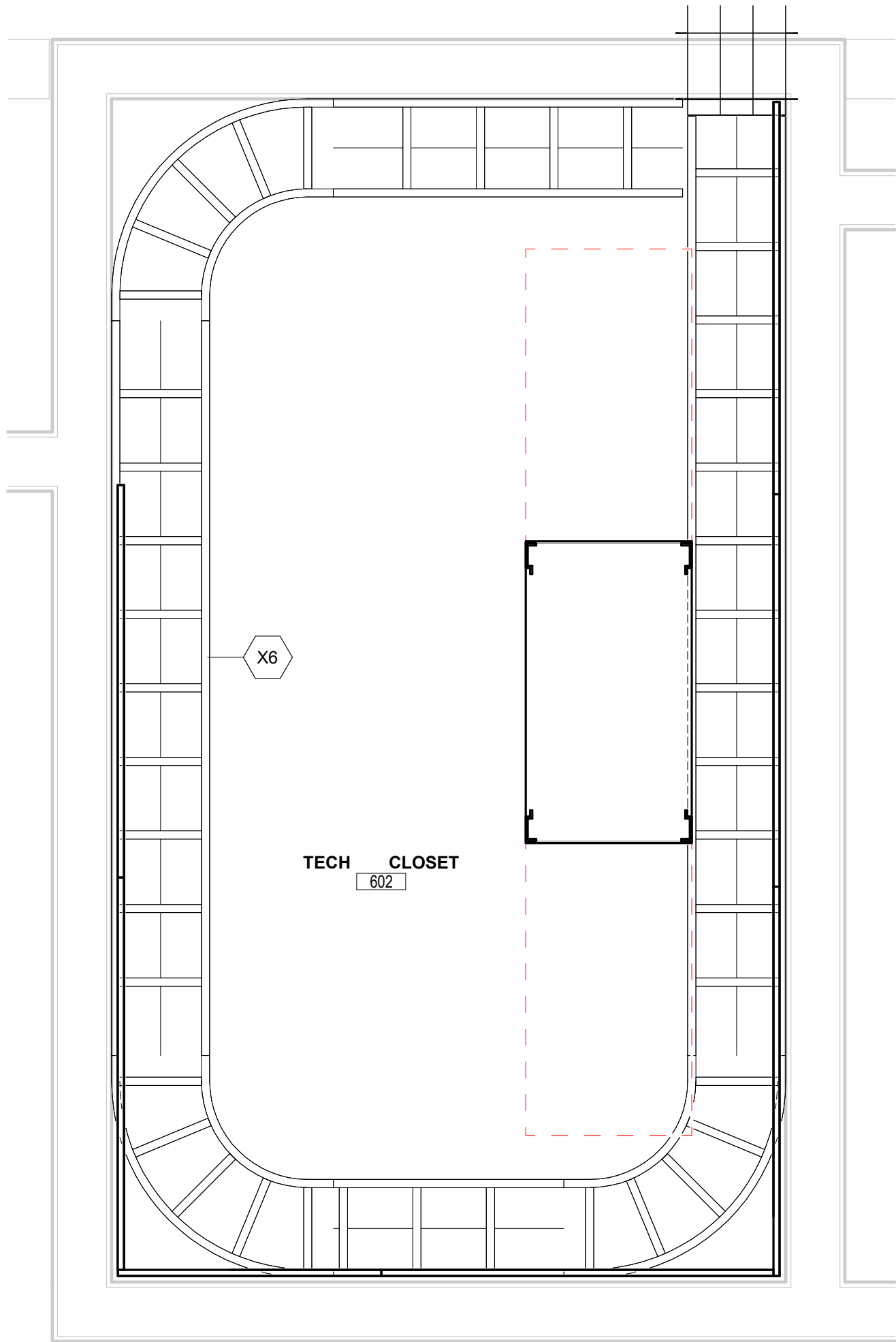
SECURITY ENLARGED
FLOOR PLAN

T201

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



FLOOR PLAN

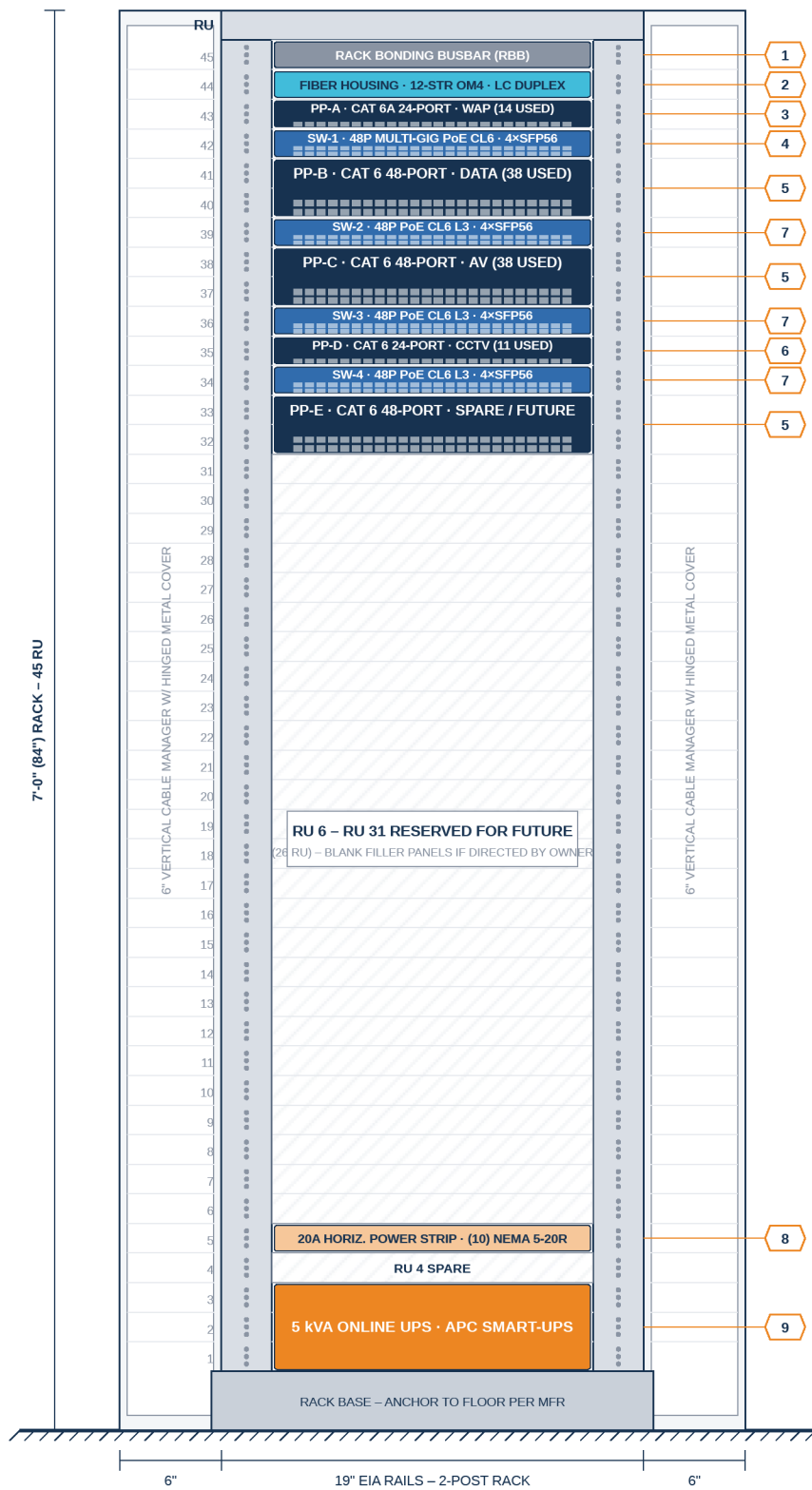


CEILING PLAN

TECH ROOM 602 - RACK 1 - FRONT ELEVATION

SCALE: 1/8" = 1'-0". RU 1 at bottom. Front view. Dimensions shown.

Legend: Fiber, Copper patch panel, Patch panel, Cable management, Power / UPS, Grounding, Reserved



RACK LAYOUT

EQUIPMENT SCHEDULE

TAG	RU	HT	DESCRIPTION	BASIS OF DESIGN	REFERENCE
1	45	1	Rack bonding busbar (RBB), bonded to room TGB0208 with #6 AWG insulated stranded Cu; bond rack, vertical managers, ladder rack	Per 27 05 26, horizontal rack busbar	27 11 00 52.08, 27 21 00 53.03 C, T401 rack layout (T401/200/200/2)
2	44	1	Rack-mount optical fiber housing, 1RU, LC duplex adapter panel(s) for 12-stand CMA backbone from MDF, 36" service loop, blank adapter plates in unused positions; (2) LC uplink jumpers min.	Same system mfr as copper 6. egypt/chronos infinium or Simon LightSystem	27 13 00 52.03 A, 27 15 00 52.01 A, 12.08, T101 keyed note 6
3	43	1	PP-A: Category 6A patch panel, 24-port, 1RU - wireless access points TP-68 thru TP-81 (14 WAP x 1 drop + 14 ports, 10 spare)	Legrand Clarity PHD6A/24 / Simon 2-AUX 25A 24 port	27 15 00 52.05 B, T401 rack layout, T603 device 62x
4	42	1	SW-1: Edgeworks switch, 48-port, ALL ports multi-gigabit Smart Rate (12.5/5 GbE) PoE Class 6 (802.3bt Type 3, 60 W), 4-SFP56 uplinks, N+1 PSU, VSF stack member - serves PP-A (WAP)	HPE Aruba Networking CX 6300M (SKU per submittal)	27 21 00 52.03 B, 12.04 A, 1-5, 12.04 B, T401 rack layout
5	41-40, 38-37, 33-32	2 ea (2)	PP-B, PP-C, PP-E: Category 6 patch panel, 48-port, 2RU - data outlets / AV plates / spare (see Port Allocation)	Match cabling system mfr per 27 15 00 52.01	T401 rack layout ("CATS PANEL"), T603
6	35	1	PP-D: Category 6 patch panel, 24-port, 1RU - video surveillance cameras V001 thru V011 (11 ports, 13 spare)	Match cabling system mfr per 27 15 00 52.01	T401 rack layout ("CATS PANEL"), T602 camera schedule, T603
7	39, 36, 34	1 ea (3)	SW-2 thru SW-4: Edgeworks switch, 48-port 1000BASE-T PoE Class 6 (802.3bt Type 3), 4-SFP56 uplinks, N+1 PSU, VSF stack members	HPE Aruba Networking CX 6300M (SKU per submittal)	27 21 00 52.04, T401 rack layout ("NETWORK SWITCH" +4)
8	5	1	Horizontal rack power strip, 125 V / 20 A, single circuit, (10) NEMA 5-20R on 6" centers, fed from dedicated 20 A circuit (Dlx 26)	—	27 11 00 53.06 A, 53.05 D
9	3-1	3	Online double-conversion UPS, 5000 VA, rack-mount 3RU, with network management card (SNMP), output receptacles and input plug/circuit to be coordinated with Dlx 26 and fire connected load	APC SmartUPS SRT 5 kVA rack-mount (model per submittal)	27 21 00 52.12, 12.16, 27 11 00 52.07
—	—	—	Floor-mounted 2 post rack, 84" H, 13" EA, steel, powder coat, with (2) 6" vertical cable managers w/ hinged metal covers; ladder rack over rack per T501 detail	—	27 11 00 52.02 C, T001 legend (T1100), T401 floorcovering plan

PORT ALLOCATION (PROPOSED)

PANEL	SERVES (T603 DEVICE ID#)	USED / PORTS	SPARE
PP-A (Cat 6A)	TP-68 - TP-81 WAP, 1 drop each	14 / 24	10
PP-B (Cat 6)	TP-100 - TP-121 single data (22), TP-51, 54, 55, 63 - 66 dual data (7 x 2 = 14); TP- 38 / 48	38 / 48	10
PP-C (Cat 6)	138, TP-139 90 duplex (2)	—	—
PP-C (Cat 6)	AV1 plates 72, 164 - 169 (7 x 2 = 14); AV2 plates 78, 165 - 163 (10 x 2 = 20); AV3	38 / 48	10
PP-D (Cat 6)	Cameras V001 - V011 (11 x 1)	11 / 24	13
PP-E (Cat 6)	Spare - future devices	0 / 48	48
TOTAL - 101 drops on 192 ports		101 / 192	91

GENERAL NOTES

- THIS DIAGRAM IS FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE RACK LAYOUT, EQUIPMENT, QUANTITIES, AND POWER REQUIREMENTS DURING THE BIDDING PROCESS.
- Rack layout and equipment sequence are taken from sheet T401 (Rack Layout) of the 20260901_R25 TECH set. RU positions, panel sizing, power strip, and 5 kVA UPS sizing are BCL's development of that layout per the referenced specification sections. No horizontal cable managers are provided in the rack, dress fiber jumpers and patch cords to the 6-inch vertical managers.
- Drop quantities are from the T603 Data Drop Count schedule with one (1) Category 6A drop per wireless access point; 101 total drops = 14 WAP (Cat 6A) + 87 stereo/device drops (Cat 6). Access control doors A001-A012 carry 0 data drops on T603.
- Label all racks, panels, ports, and cables per 27 15 00 52.10 format TRX-PPV-ZZ (e.g., TR602-PPA-01). Match outlet labels to T11 end port labels.
- Provide (2) fiber optics minimum from the switch stack to the Owner-furnished core switch, 1ACP aggregated, 25 Gbps where core supports 4 (10 Gbps minimum), verify optic type with Owner prior to submittal (27 21 00 52.04 C-D).
- Bond rack, vertical managers, ladder rack, and all metallic components to the RBB0208 per 27 05 26 and AHS01TA-607. Insulate all conduits entering the rack with non-metallic bushings (27 21 00 53.03 A).
- Dlx 26 to provide a dedicated circuit and receptacle for the 5 kVA UPS (input voltage, plug type, and breaker size per the selected UPS model - coordinate prior to rough-in) and (1) dedicated 120 V / 20 A circuit to the rack power strip (27 11 00 53.05 D). Coordinate receptacle locations with rack placement.
- Verify required equipment in Tech Room 602 shown on T401. Rack plan and NOT in this rack: access control panel (ACP), access control power supplies (PWR SUPPLIES), and intrusion detection headend (INTRUSION - T401 keyed note 1, tie into existing main building system).
- Contractor shall verify rack placement and layout with Owner and Owner's IT prior to installation (T603 General Note 14) and submit rack elevations per 27 11 00, 27 15 00 51.05 A, 2, and 27 21 00 51.06 A, 4.

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-POST 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 L5-30P.
X12 INTRUSION SYSTEM HEADEND FOR NEW SECTION, TIE INTO EXISTING INTRUSION SYSTEM FOR MAIN BUILDING.

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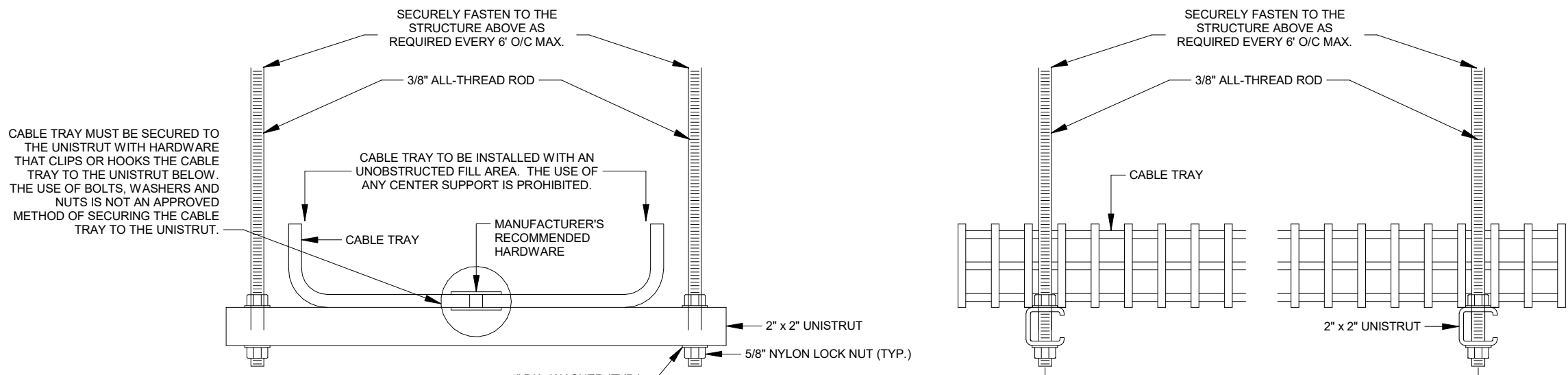
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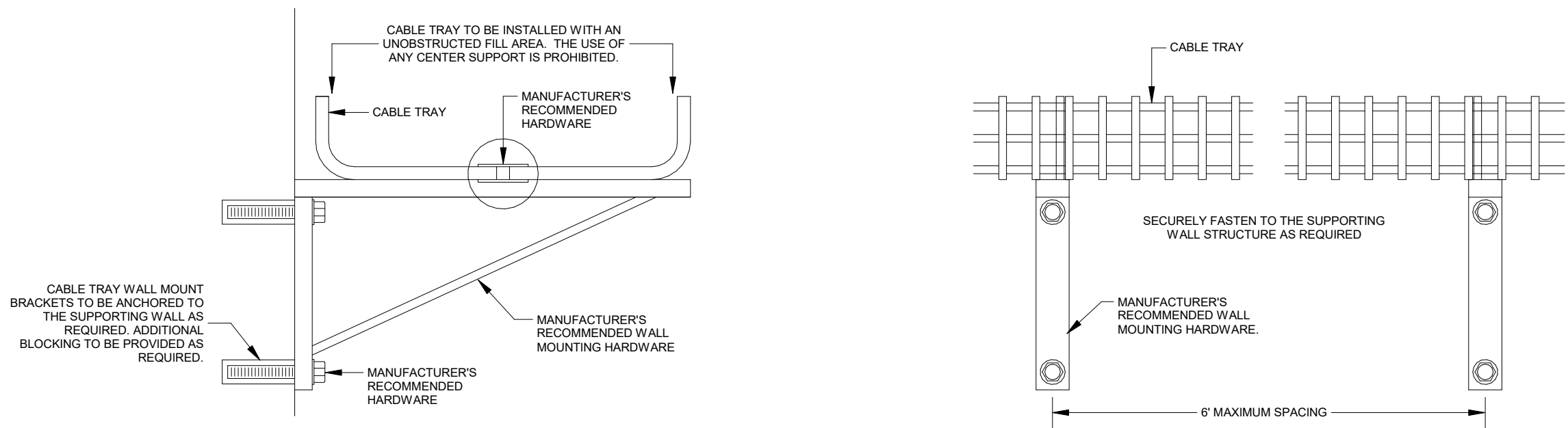
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TECH ROOM 602
ENLARGED AND
ELEVATION PLANS
T401

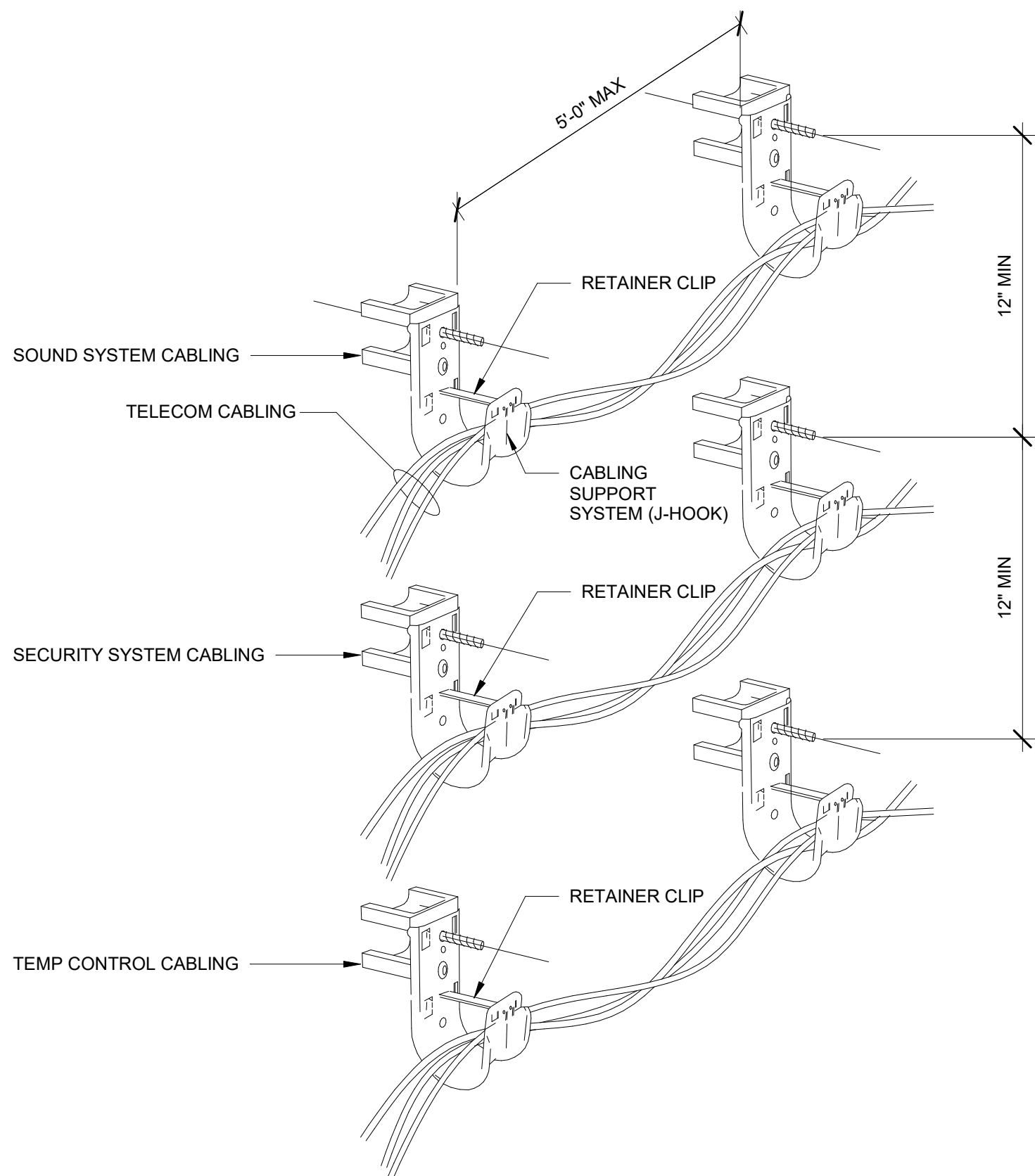


UNISTRUT TRAPEZE SUPPORT



WALL MOUNT BRACKET SUPPORT

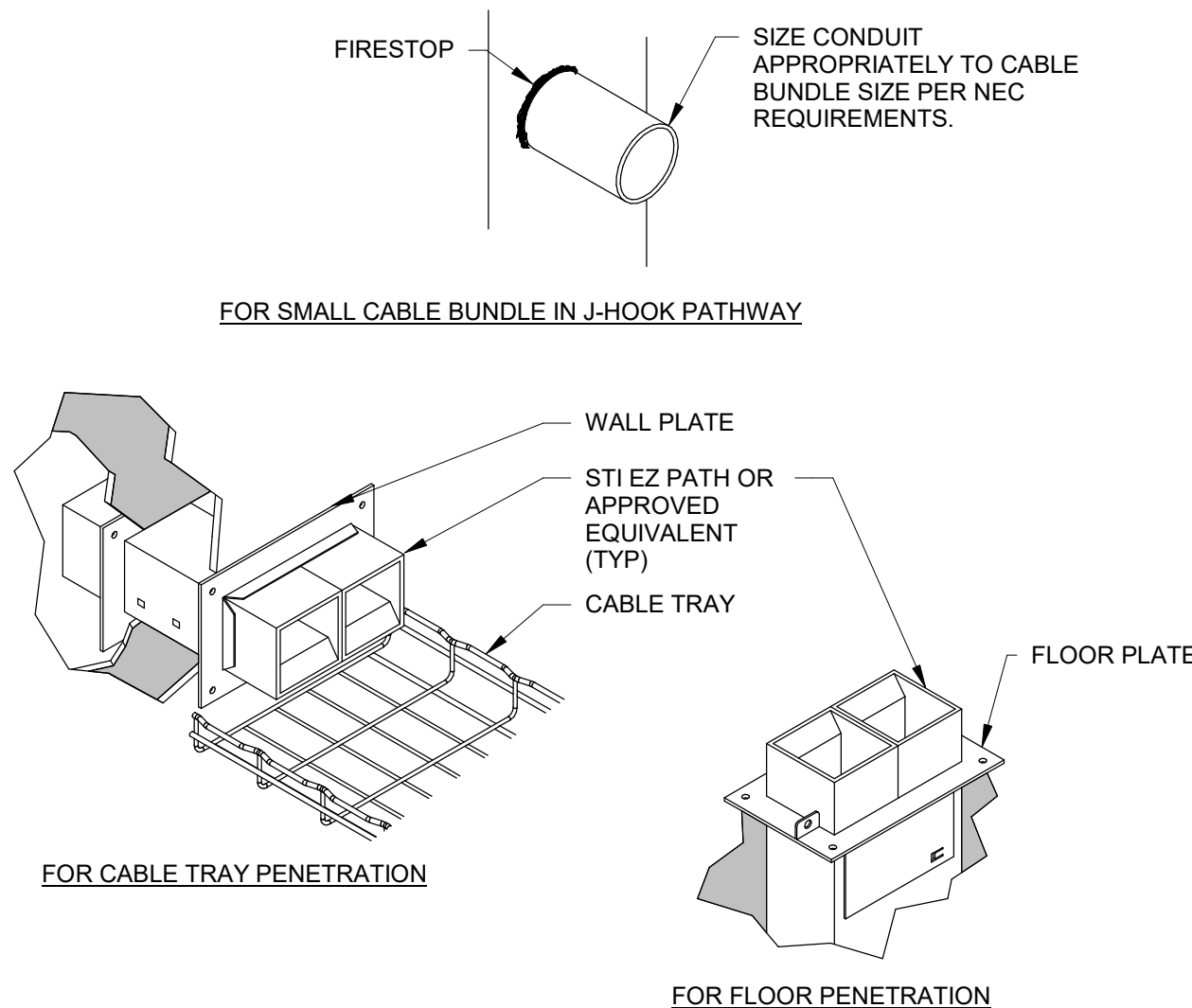
1 CABLE TRAY INSTALLATION DETAIL
NTS



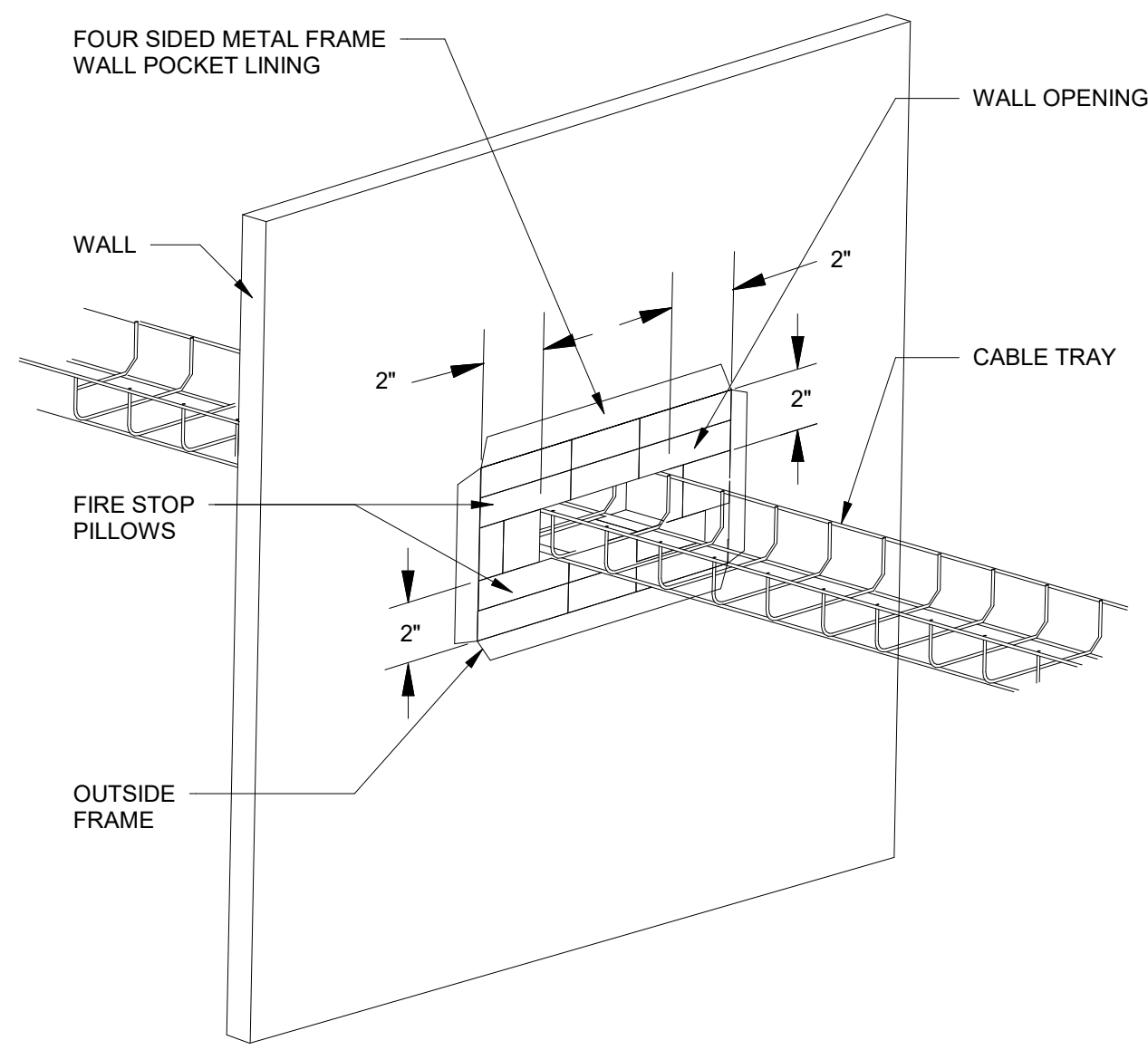
NOTE:

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



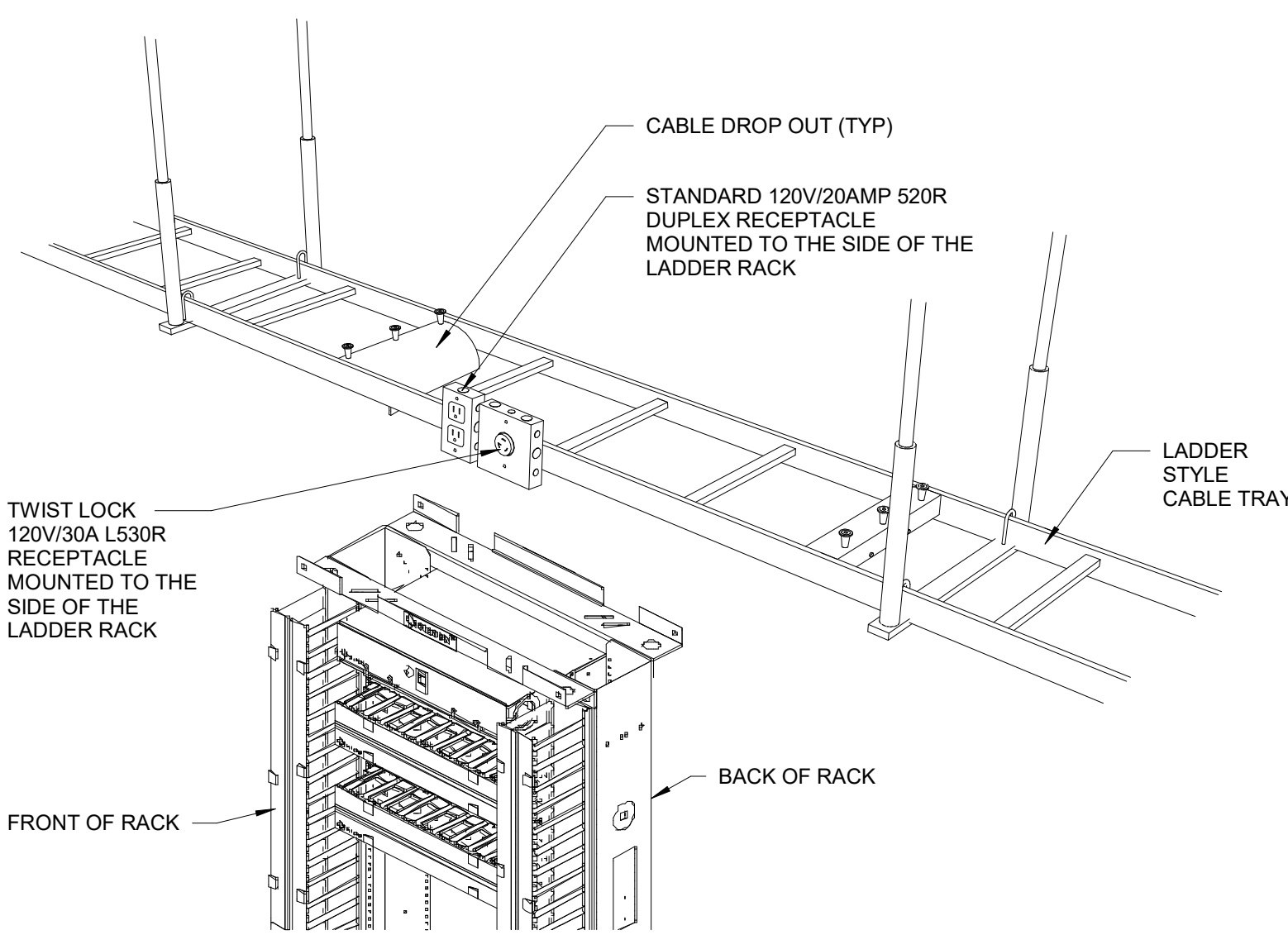
3 RATED WALL PENETRATION DETAIL
NTS



NOTES:

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

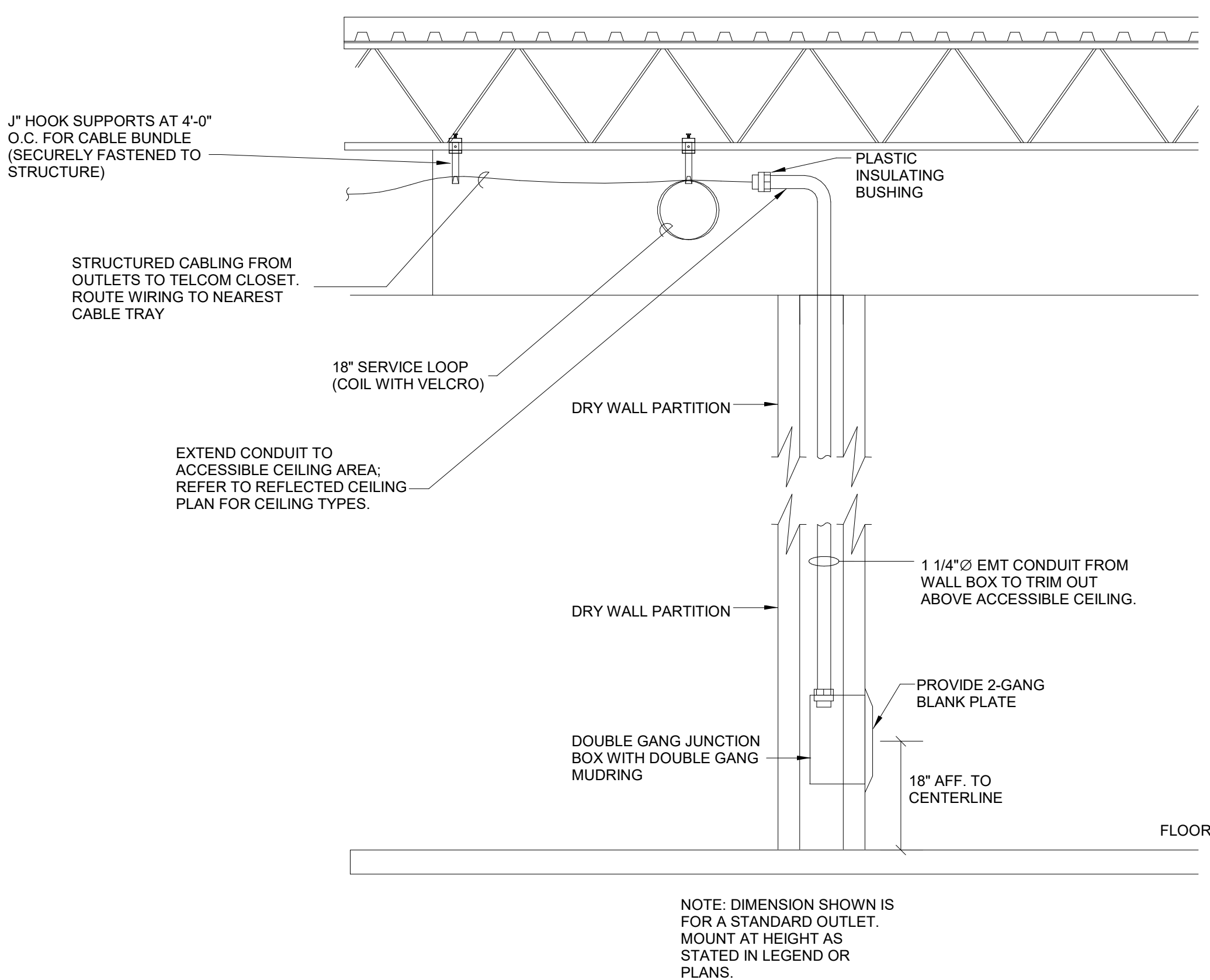
4 CABLE TRAY PASS-THRU FIRESTOP DETAIL
NTS



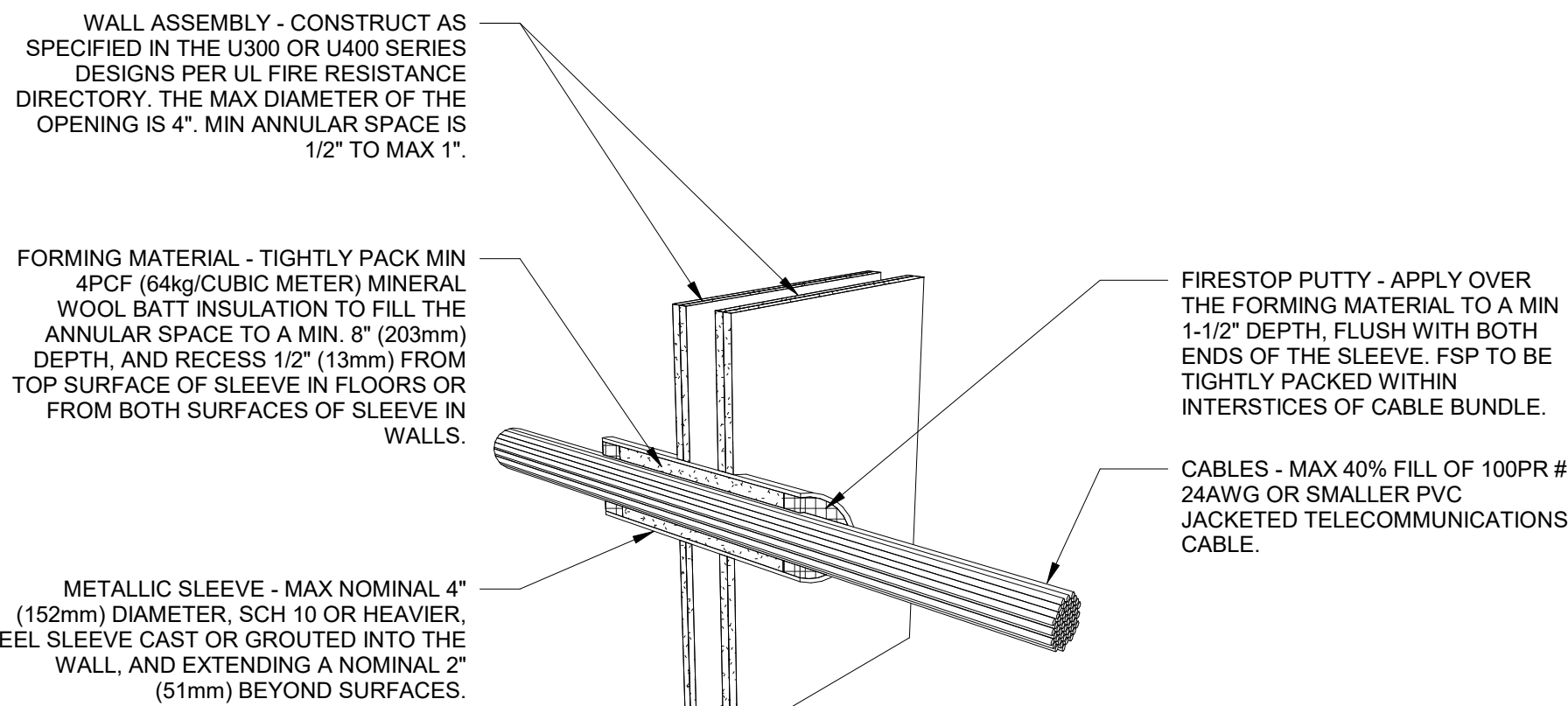
NOTE:

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



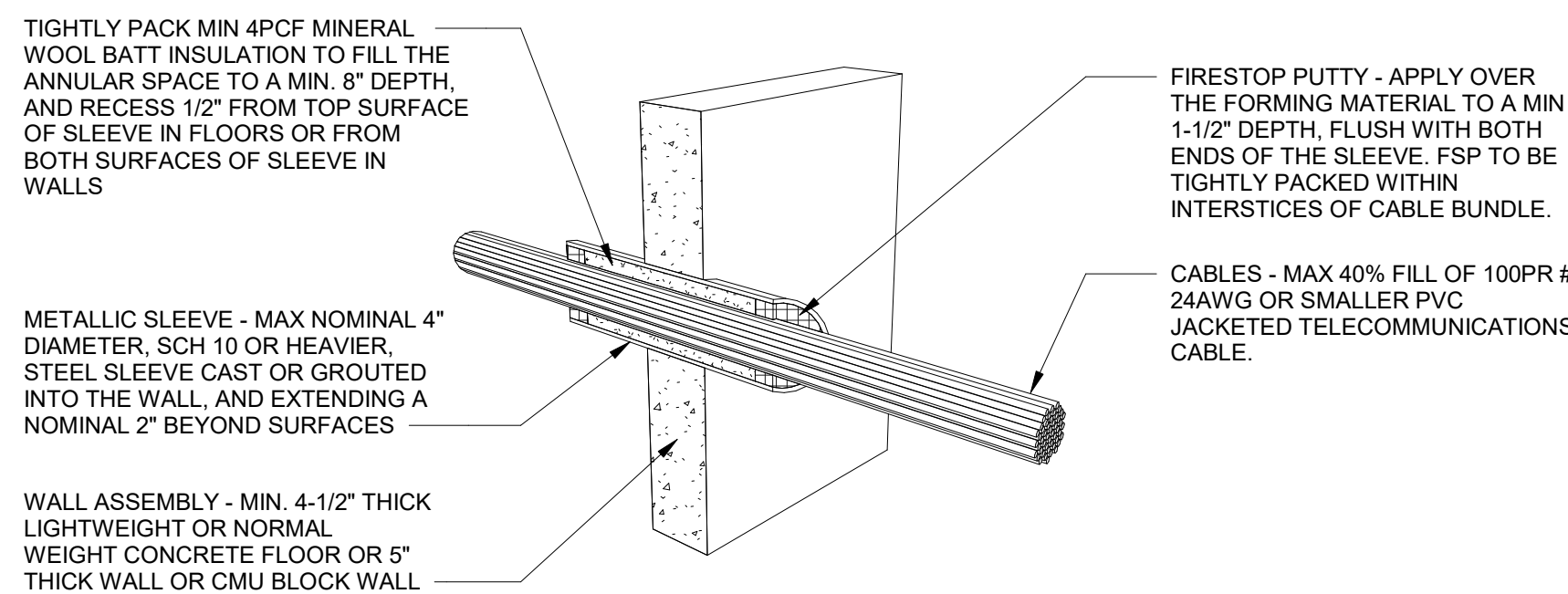
6 TYPICAL WALL-MOUNTED A/V OUTLET ROUGH-IN DETAIL
NTS



NOTES:

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

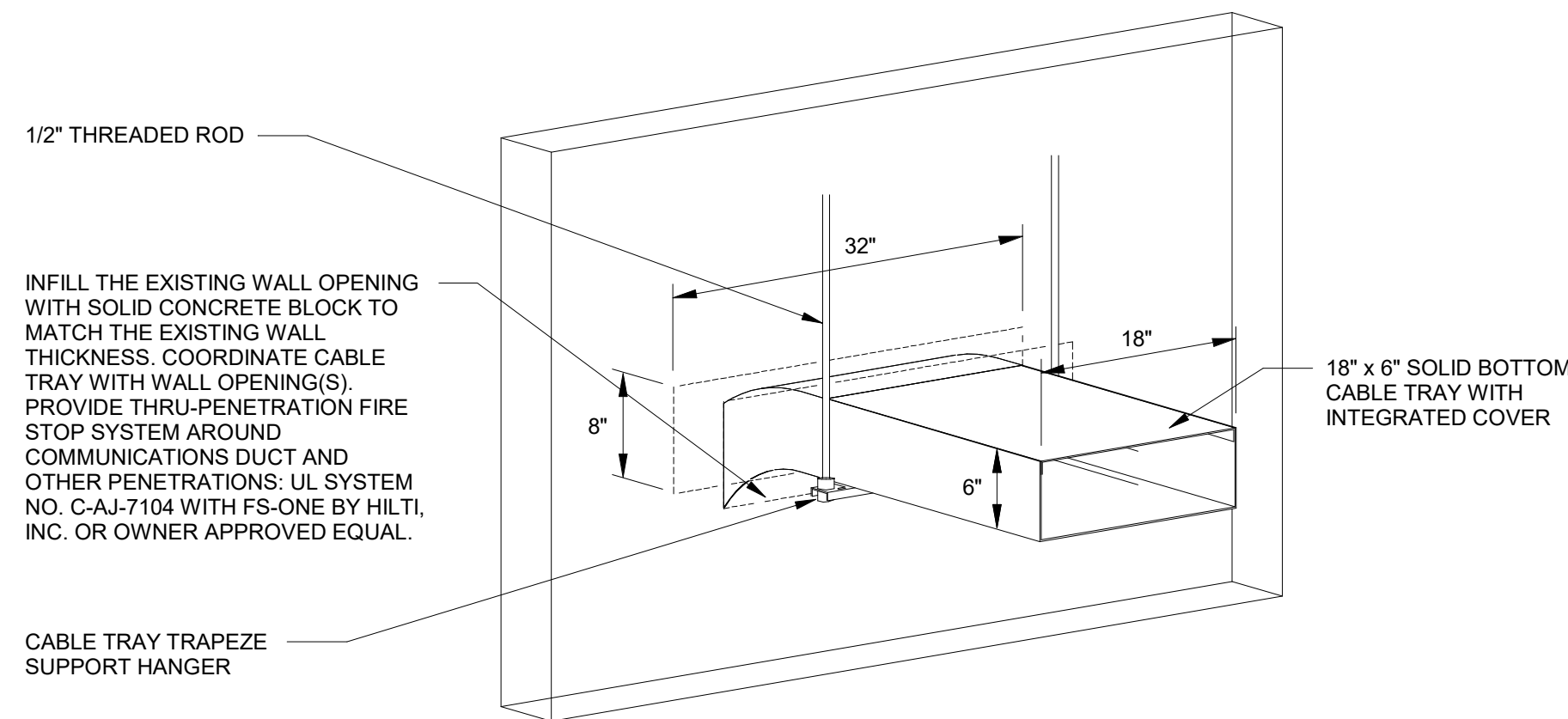
7 CONDUIT SLEEVE SEAL DETAIL - CAVITY
NTS



NOTES:

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

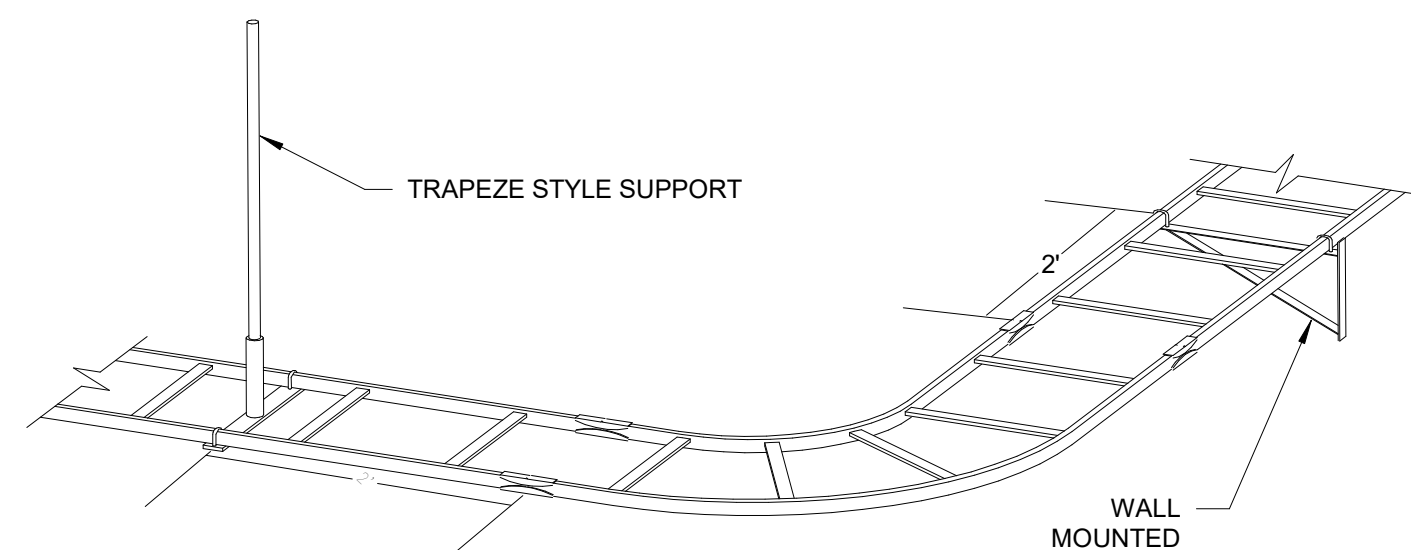
8 CONDUIT SLEEVE SEAL DETAIL - MASONRY CONCRETE
NTS



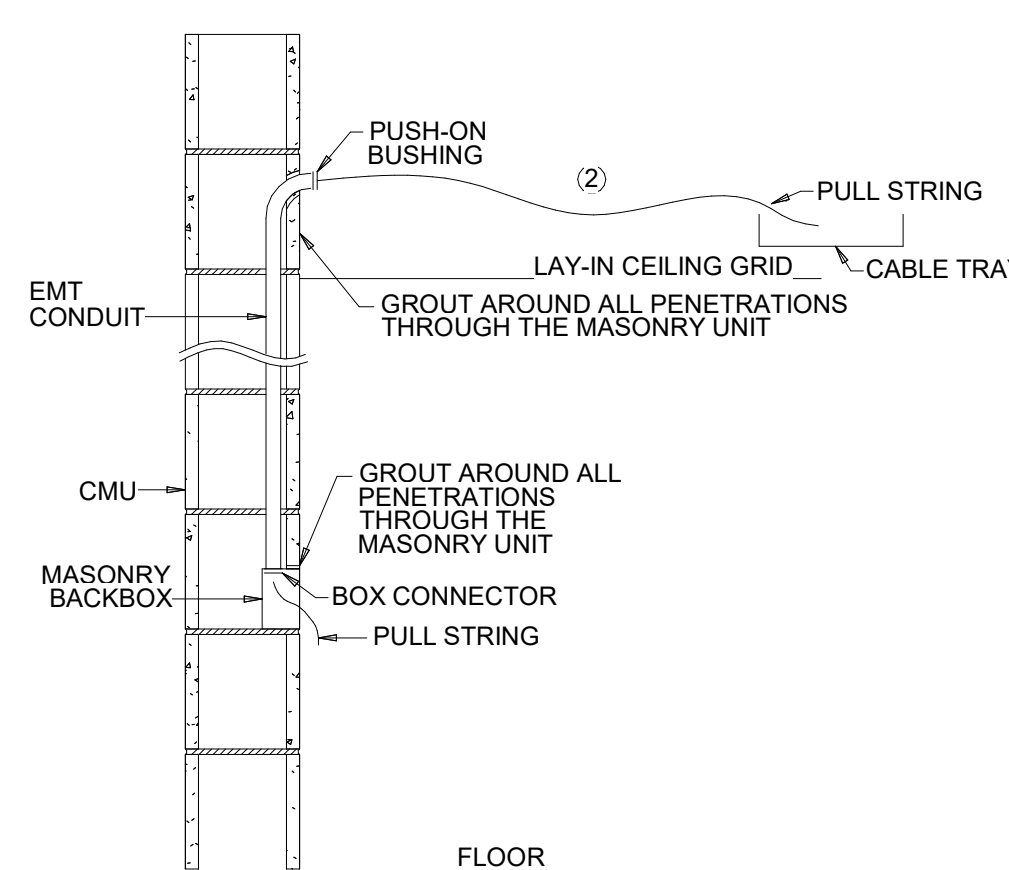
NOTES:

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

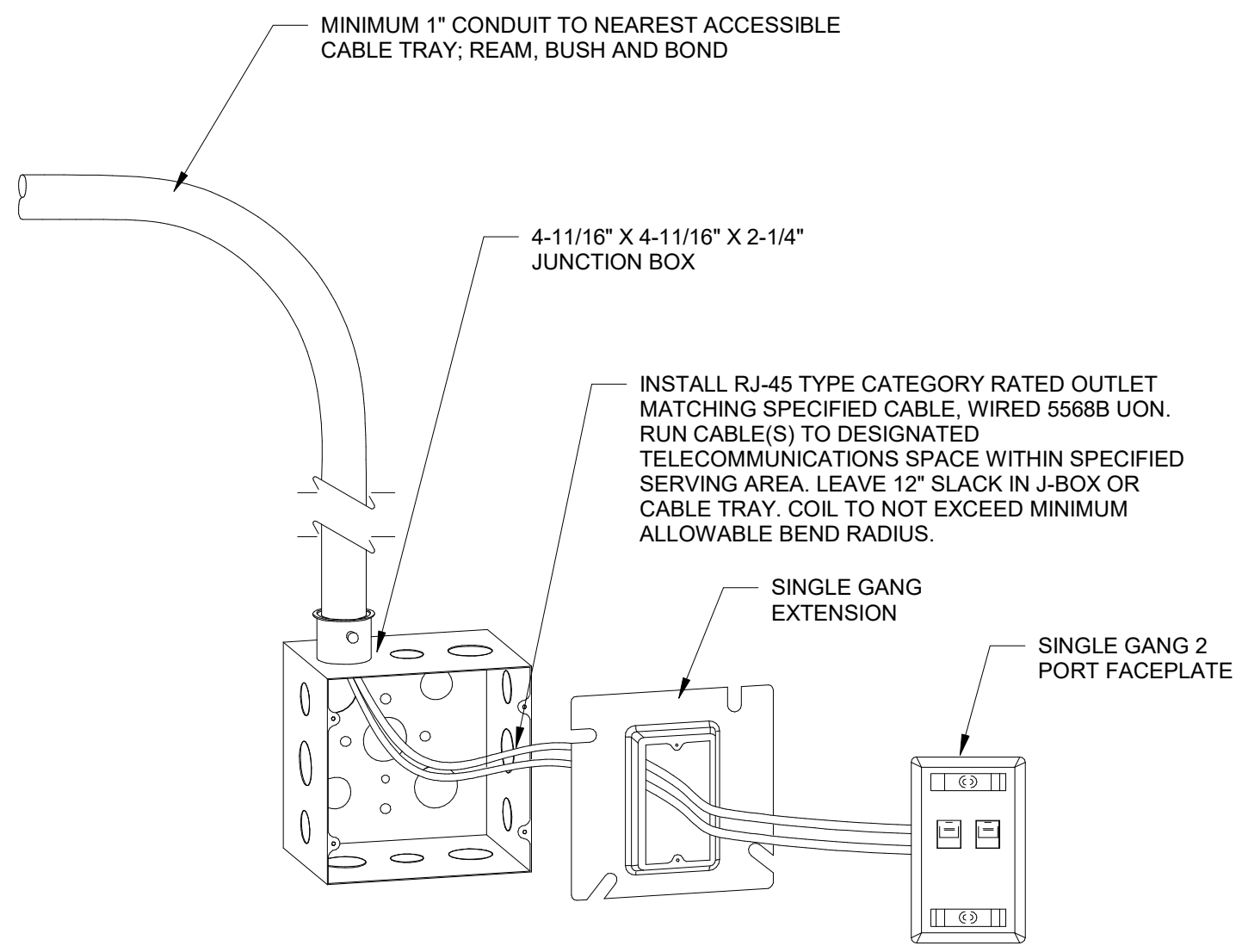
1. THIS DETAIL IS TYPICAL FOR ALL TECHNOLOGY ROUGH-INS INCLUDING CONDUITS STUBBED ABOVE THE CEILING AND CONDUITS ROUTED TO THE CABLE TRAY.
2. CABLES ROUTED TO THE CABLE TRAY SHALL BE SUPPORTED AS REQUIRED ON 5' CENTERS.

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.

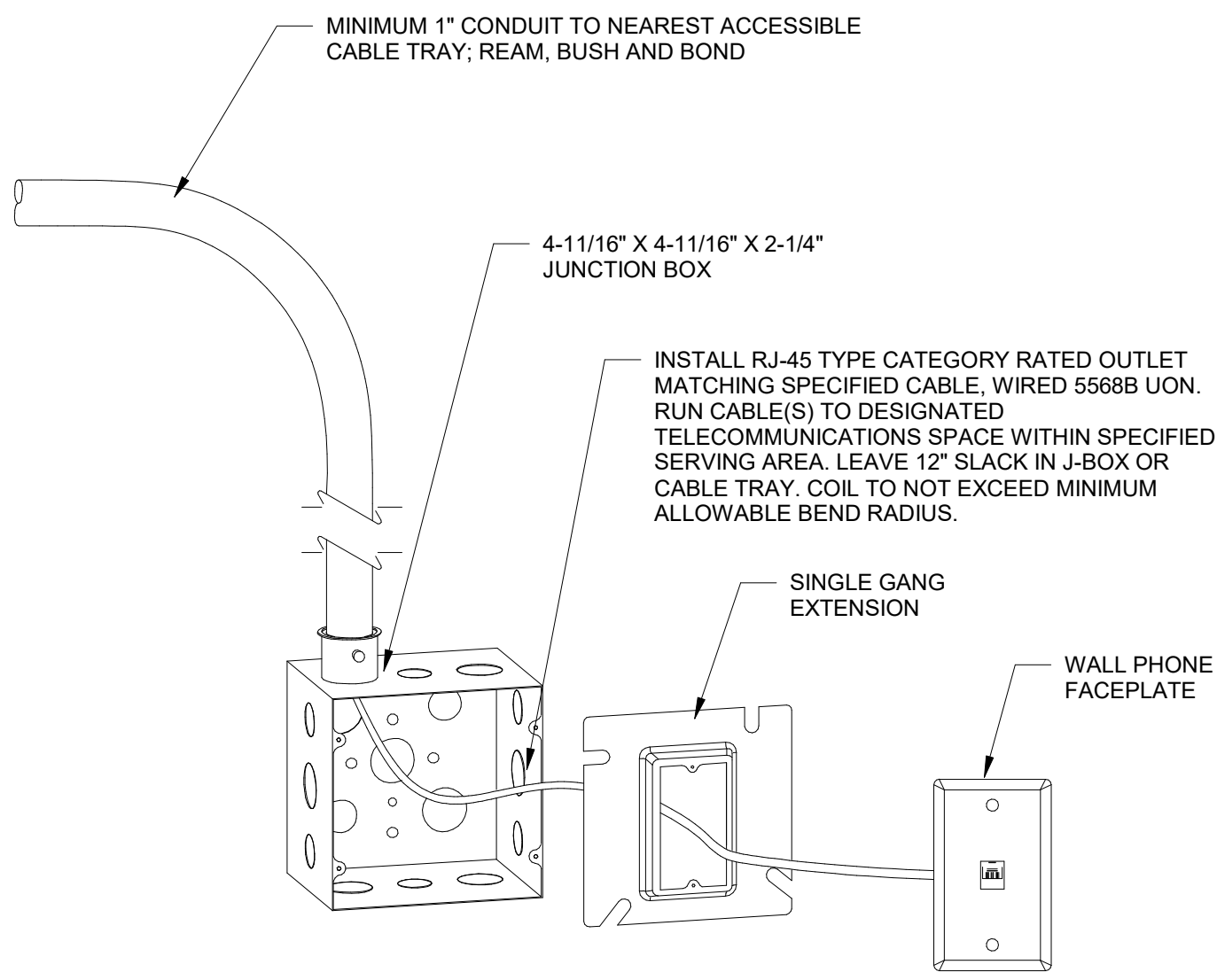
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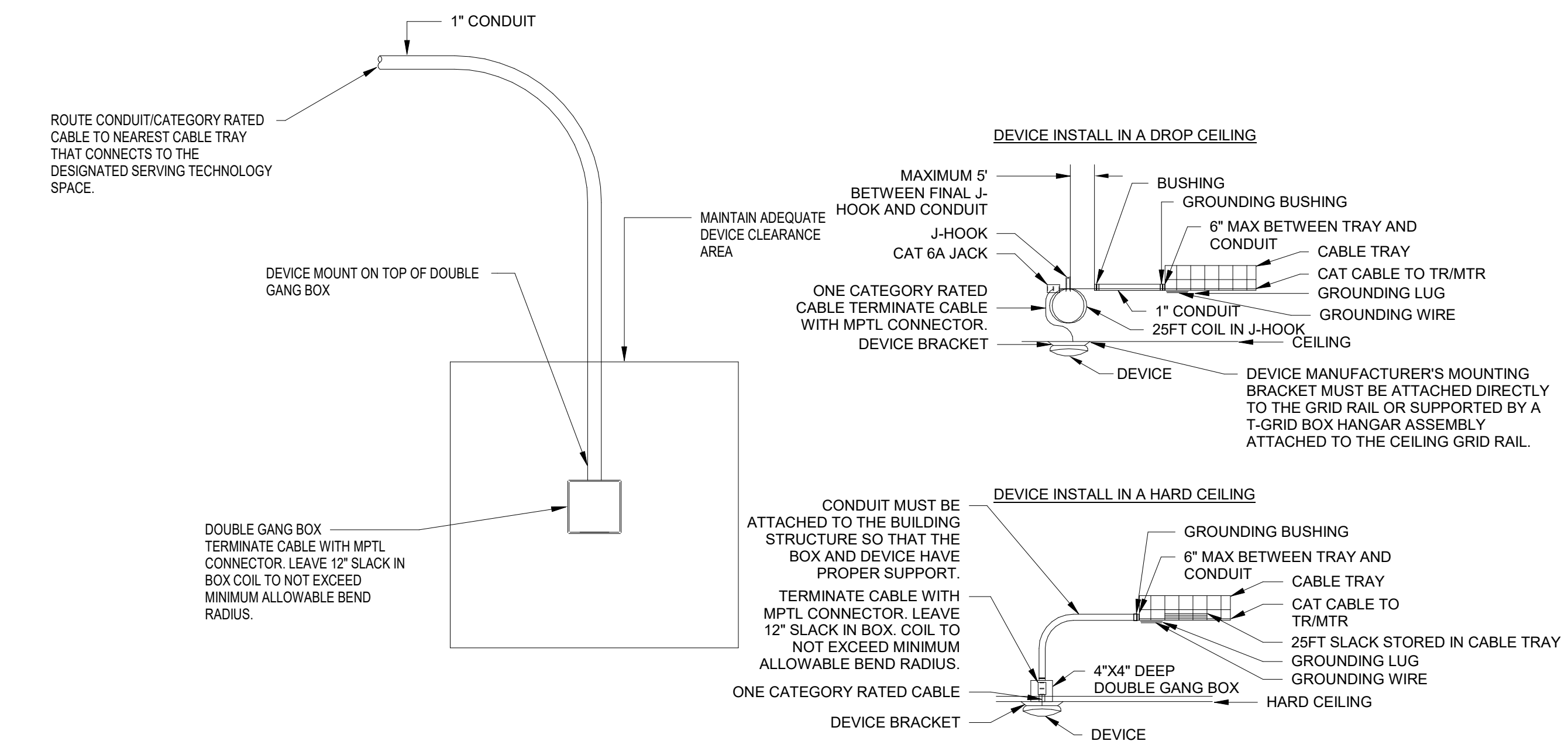
NOTES:
1. COORDINATE HEIGHT OF OUTLET WITH ELECTRICAL RECEPTACLE.

1 TYPICAL TELECOM OUTLET AND BACKBOX DETAIL
NTS

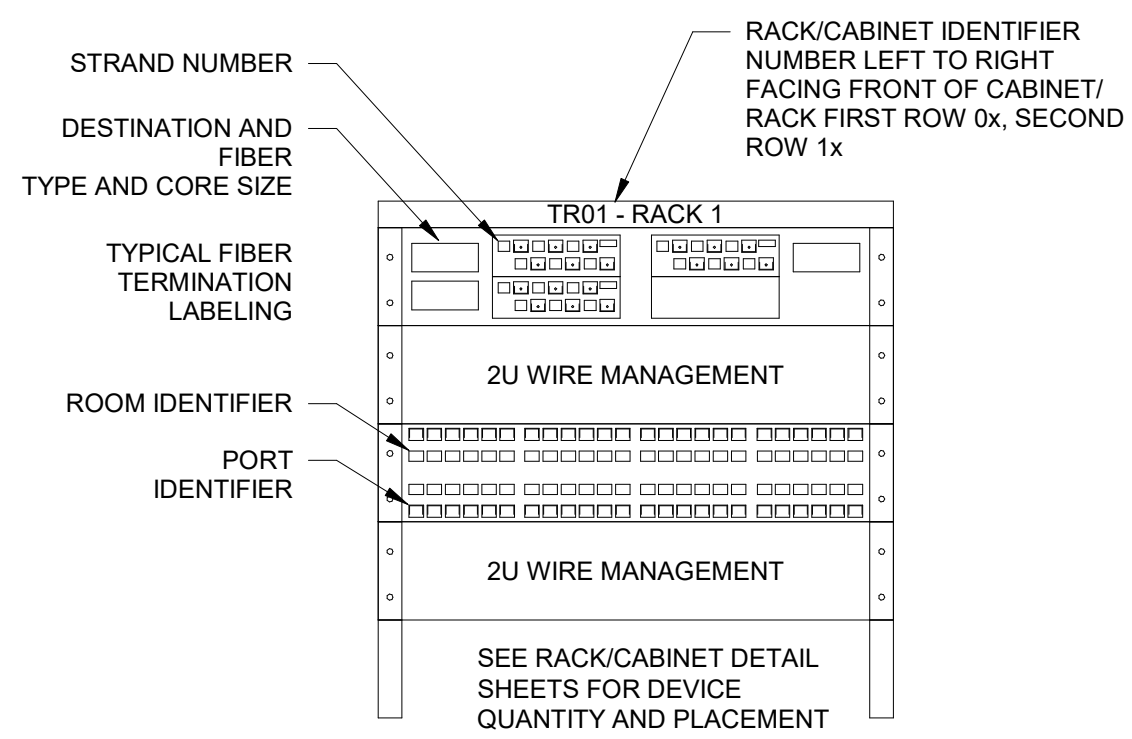


NOTES:
1. HEIGHT AT 48" AFF.

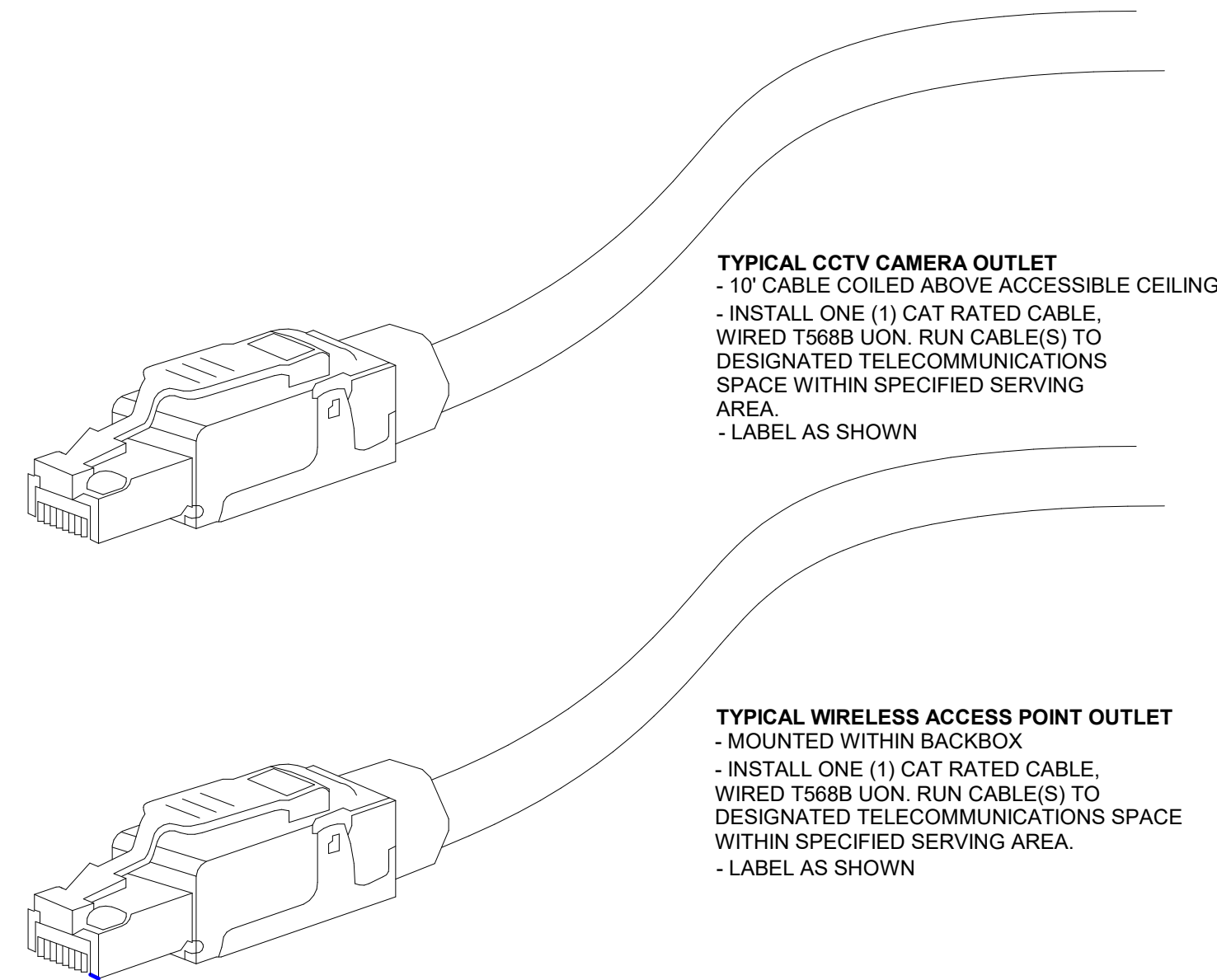
2 TYPICAL WALL PHONE OUTLET AND BACKBOX DETAIL
NTS



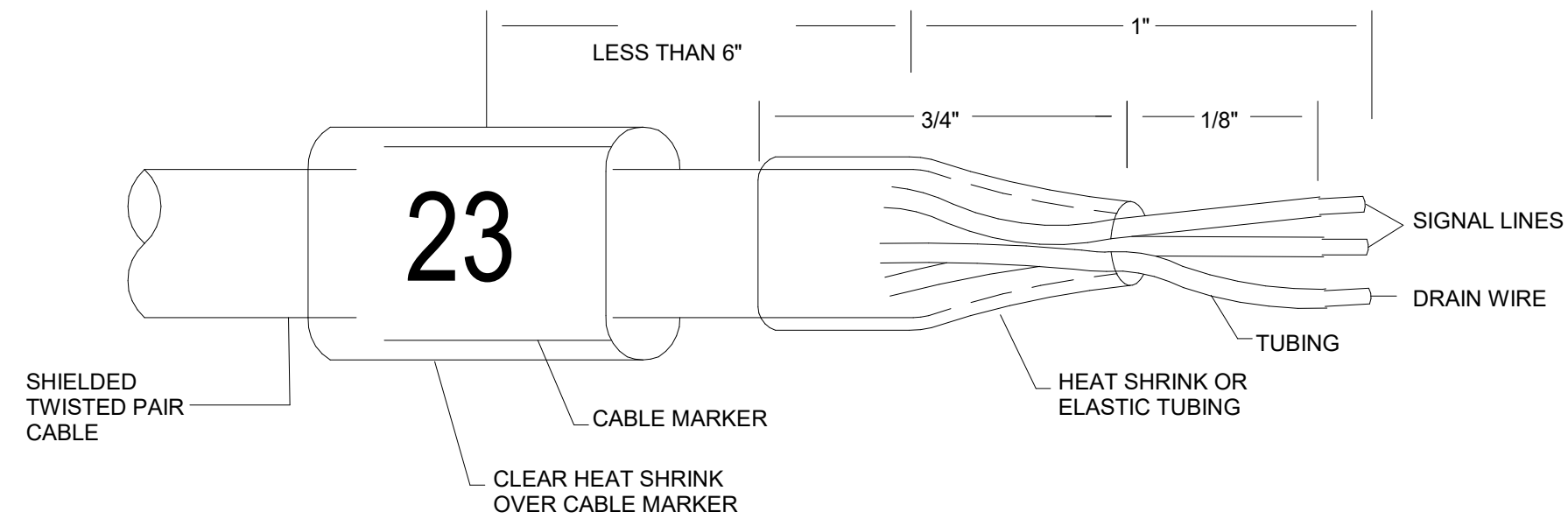
3 NETWORK DEVICE INSTALLATION DETAIL (E.G., CAMERA, WAP, VAPE DETECTOR, MISC SENSOR)
NTS



4 ER / TR EQUIPMENT LABELING
NTS

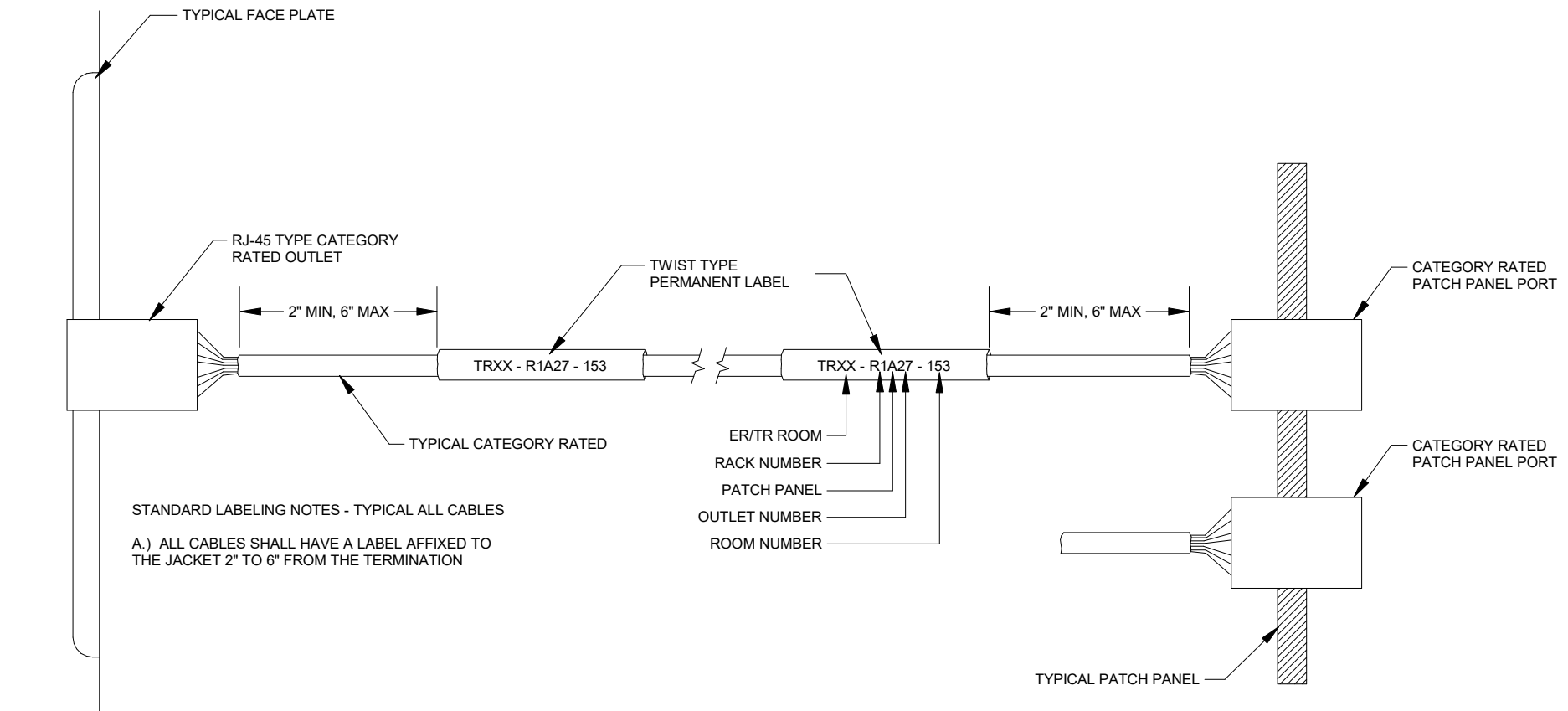


5 MODULAR PLUG TERMINATED LINK (MPTL) DETAIL
NTS

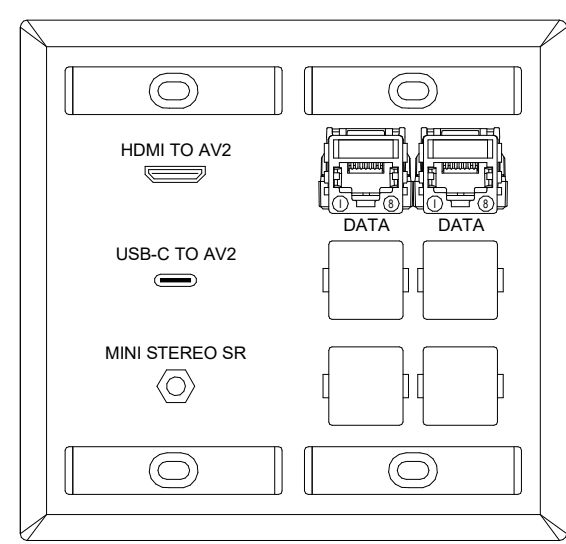


NOTES:
1. ALL CABLES TO BE LABELED, WITH LABEL SECURED AND PROTECTED BY CLEAR HEAT SHRINK.
2. ALL DRAIN WIRES TO BE SERVED WITH CLEAR HEAT SHRINK OR INSULATING TUBING. WRAP UNUSED DRAIN WIRES UNDER END DRESS BOOT.
3. REQUIRED AT EACH CABLE TERMINATION IN RACKS, TERMINAL BOXES AND AT WALL PLATES.

6 STANDARD LABEL AND PREPARATION FOR SHIELDED CABLE TERMINATIONS
NTS



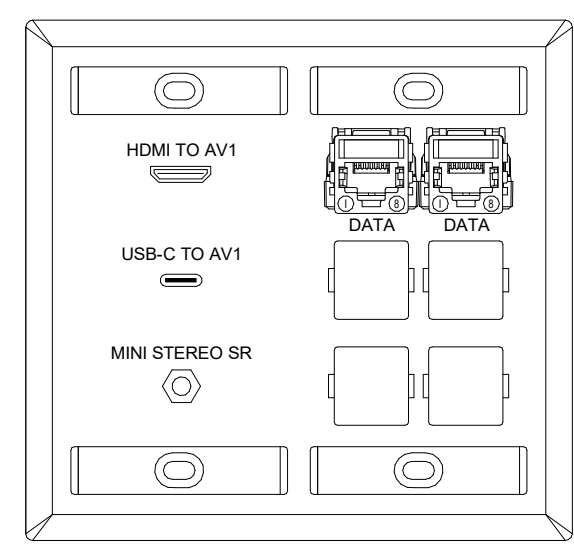
7 TYPICAL CABLE LABELING AT OUTLET AND PATCH PANEL
NTS



ONE (1) USB-C + EXTENDER KIT TO AV2 LOCATION
ONE (1) HDMI + EXTENDER KIT TO AV2 LOCATION
ONE (1) 3.5 MM STEREO TO SR LOCATION
2-GANG FACEPLATE BACK BOX @ 18" A.F.F. UON

AV1

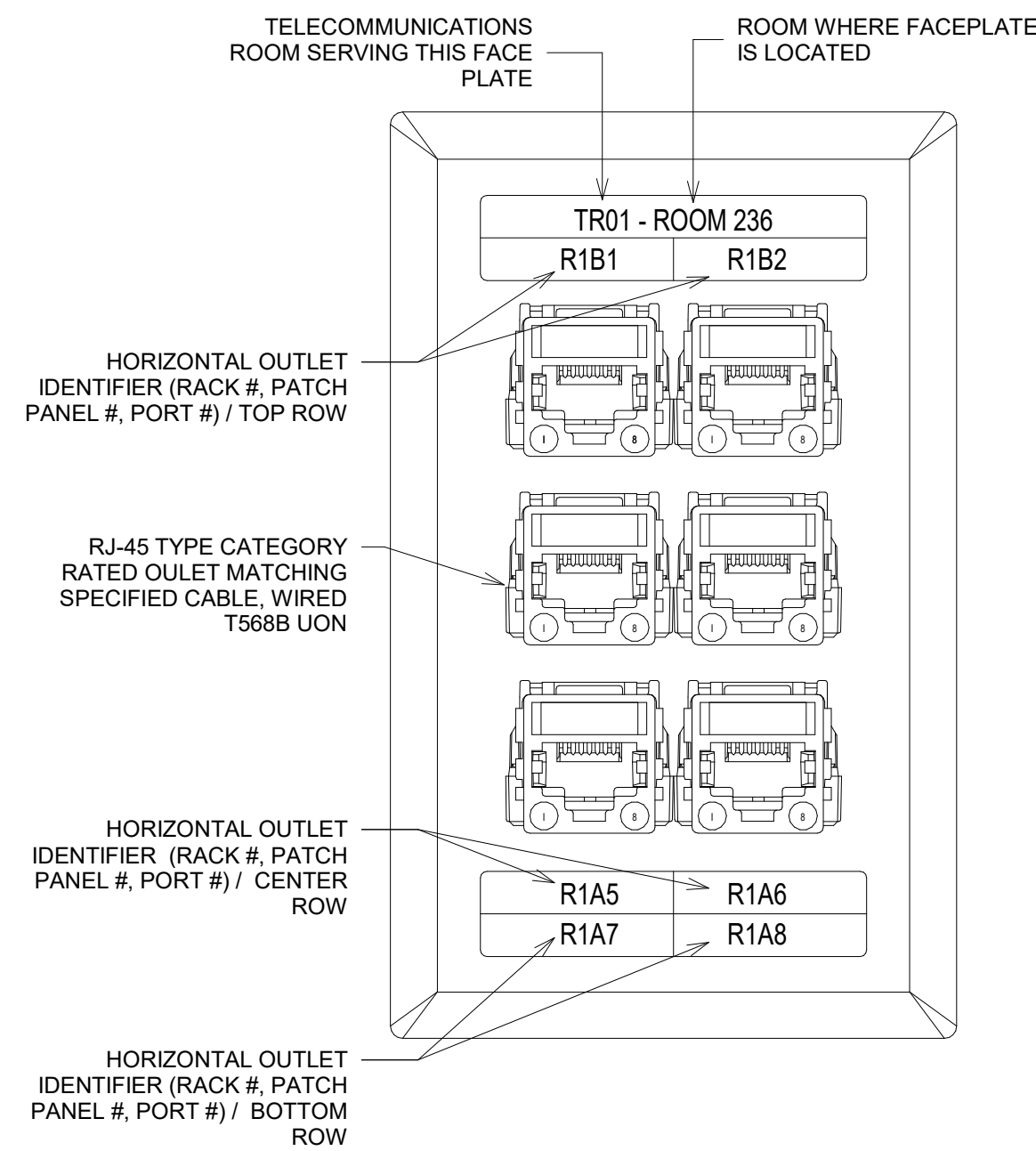
8 AV1 DATA AV OUTLET DETAIL
NTS



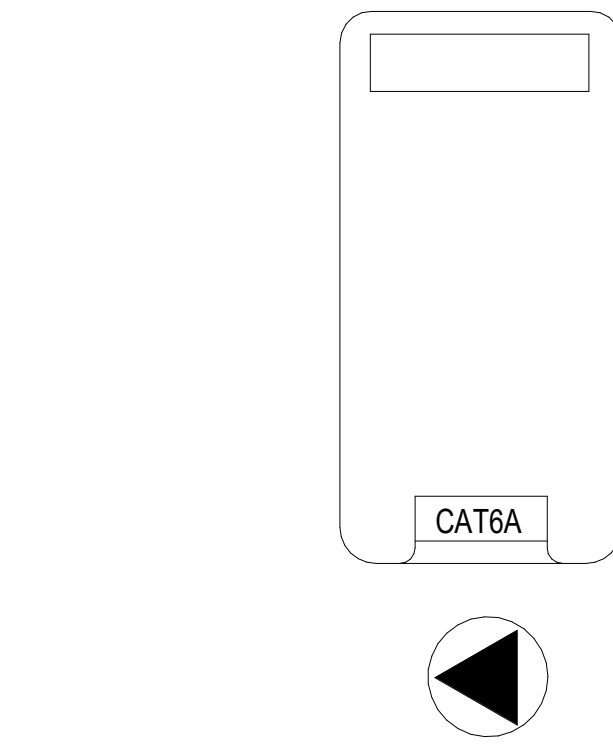
ONE (1) USB-C + EXTENDER KIT TO AV1 LOCATION
ONE (1) HDMI + EXTENDER KIT TO AV1 LOCATION
ONE (1) 3.5 MM STEREO TO SR LOCATION
2-GANG FACEPLATE BACK BOX @ 60" A.F.F. UON

AV2

9 AV2 DATA AV OUTLET DETAIL
NTS



10 1-GANG VOICE/DATA FACEPLATE LABELING DETAIL
NTS



11 1-CAT6A FLOATING OUTLET (WAP)
NTS

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PRINTINGS	Project Status	Job No.	Scale	Sheet No.	Total Sheets



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CAREER CENTER
MEDICAL ACADEMY
3525 OH-48 Lebanon, OH 45036

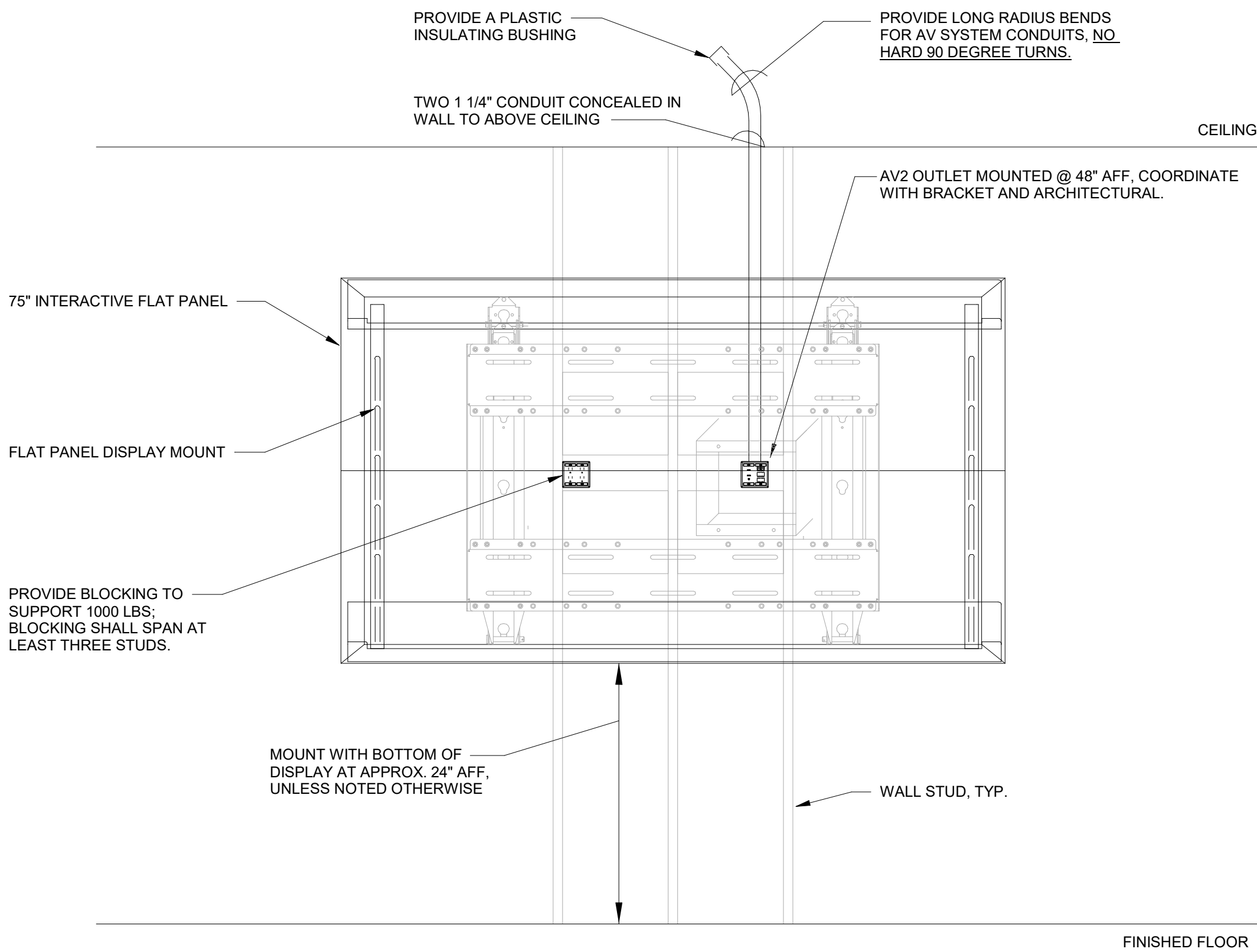
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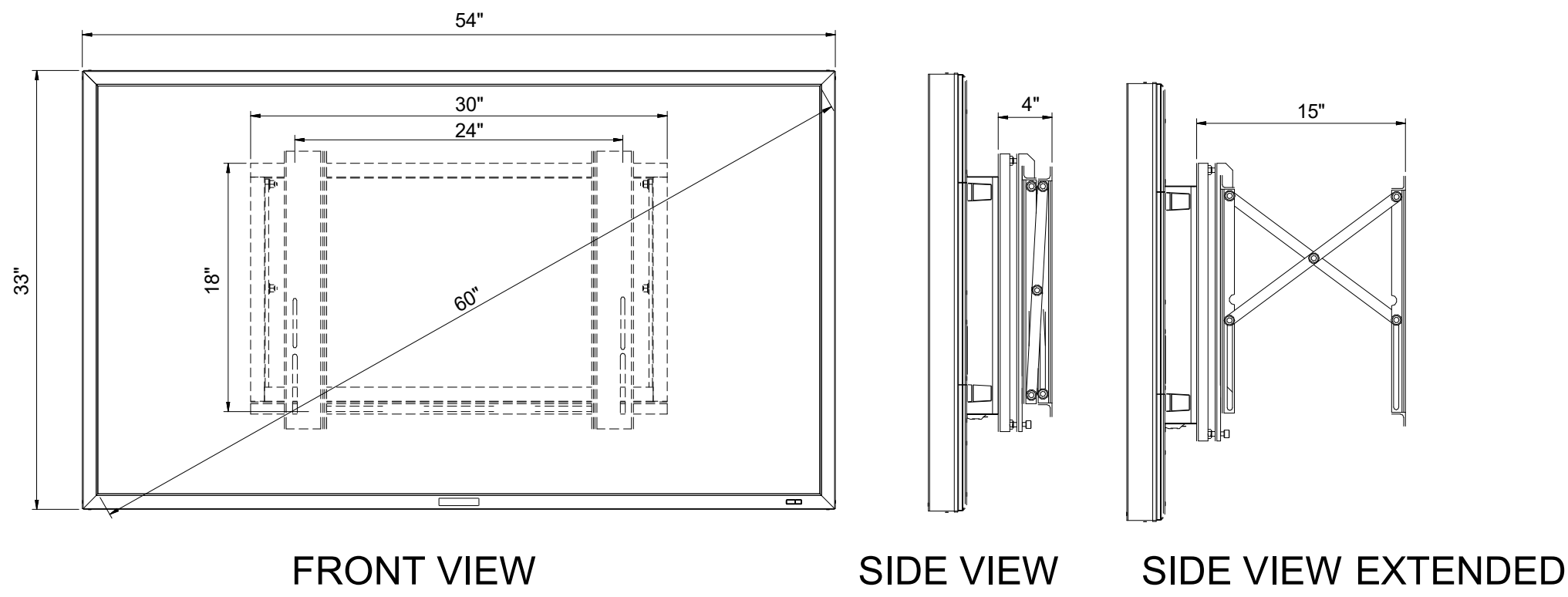


DATA DETAILS
T502

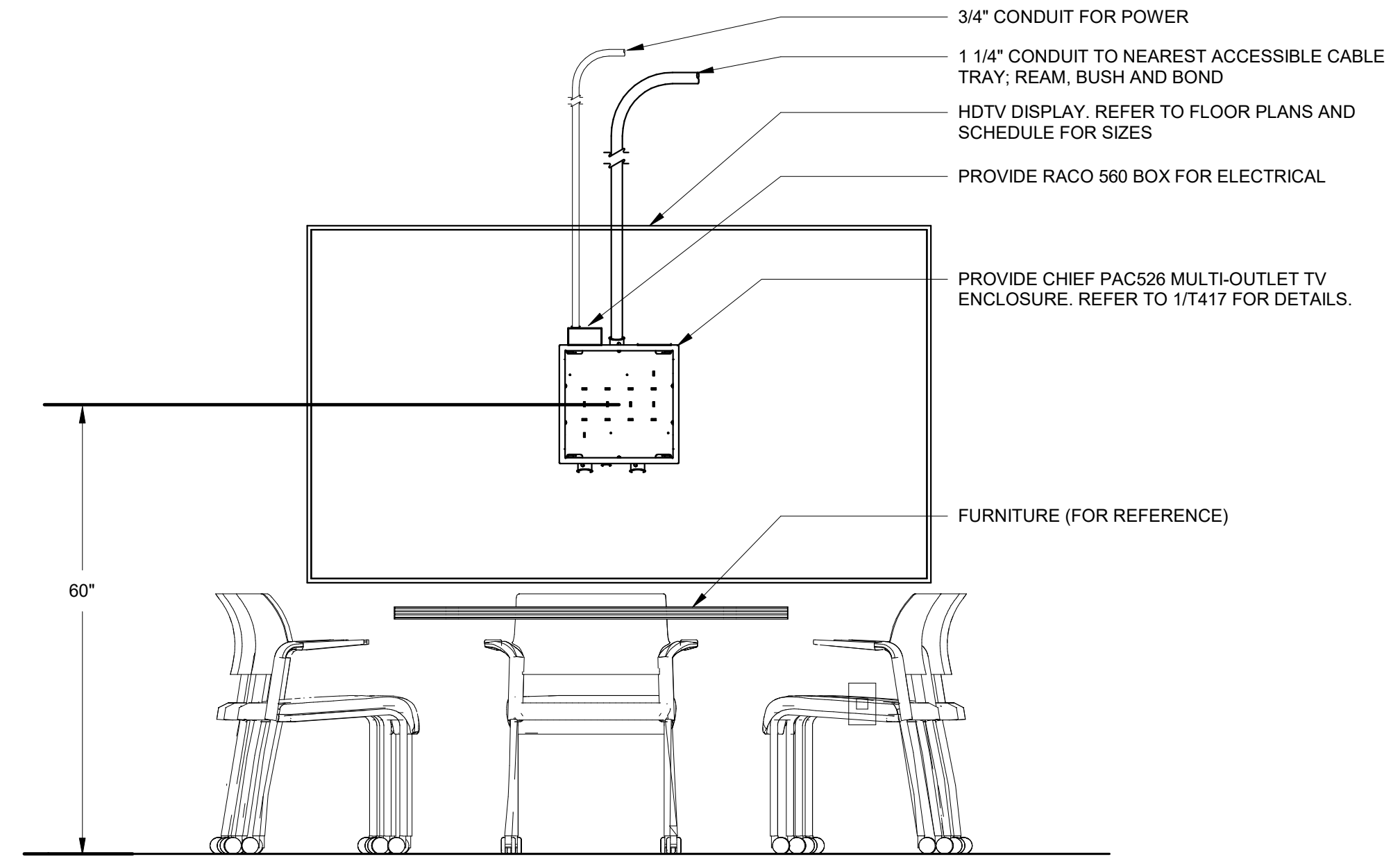
1 TYPICAL FLAT PANEL DETAIL
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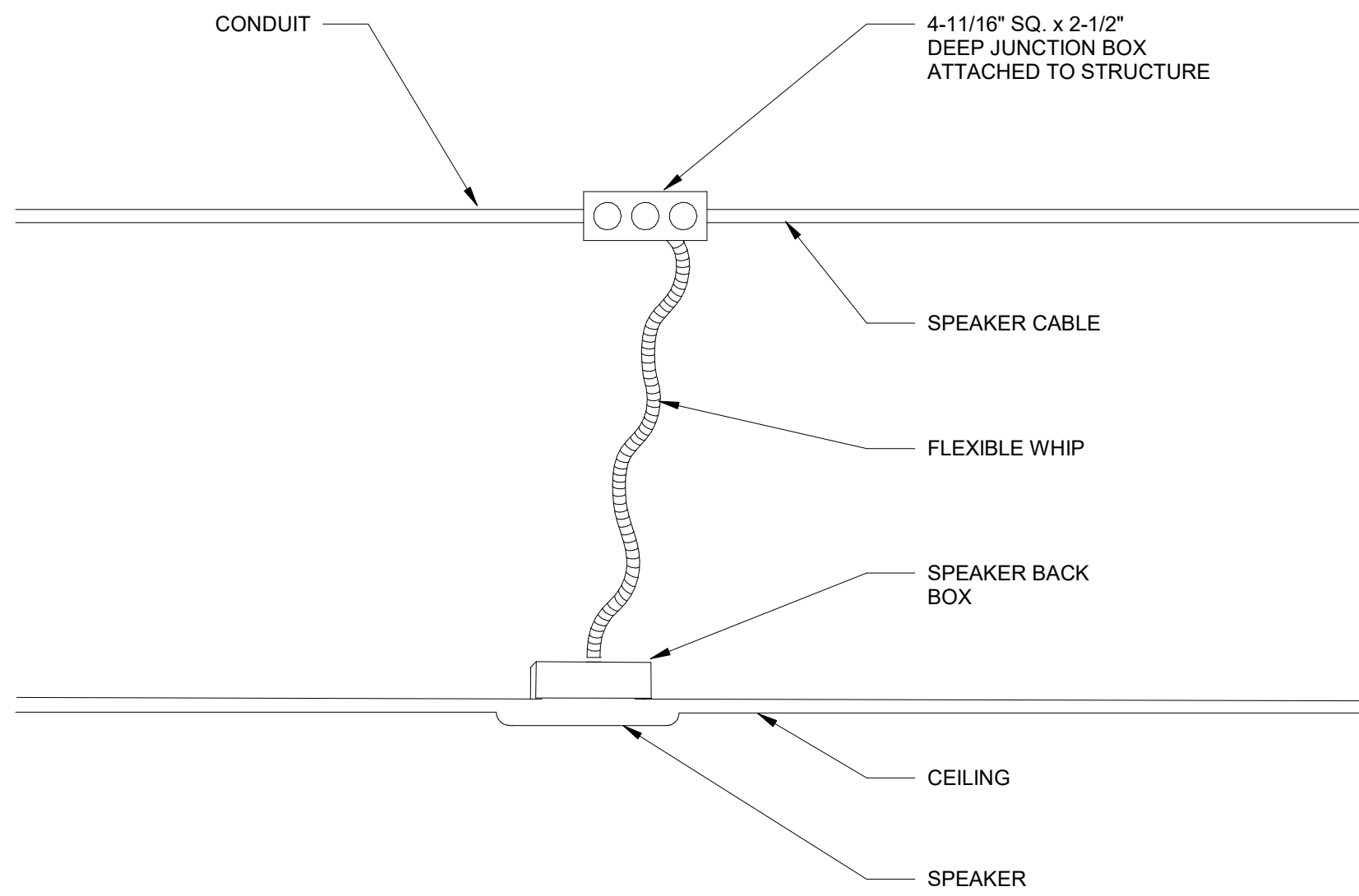
2 WALL MOUNTED VIDEO DISPLAY
NTS



3 CONFERENCE ROOM DISPLAY ELEVATION
NTS



4 CEILING MOUNTED SPEAKER DETAIL
NTS



REVISIONS :		
Number	Description	Date

PRINTINGS :	
Project Status	XXXXXXX
JOB'S COMMENCED DATE	08.12.2025





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	Yes			
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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John Communication Document	09/11/2026

CONSULTANTS

WARREN COUNTY
CAREER CENTER
MEDICAL ACADEMY

3522 OH-48, Lebanon, OH 45036

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AUDIO VISUAL
SCHEDULES

T601

ACCESS CONTROL DOOR SCHEDULE																										
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		No	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

CAMERA SCHEDULE				
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"

9/9/2026 3:30:39 PM

