

ABBREVIATIONS :

NOTE: THIS IS A MASTER LIST. ALL ABBREVIATIONS AND MATERIALS LISTED ARE NOT NECESSARILY PRESENT IN THIS PROJECT.

| | | | |
|--------|--|-------|------------------------|
| ACI | AMERICAN CONCRETE INSTITUTE | INS | INSULATION |
| AFI | ABOVE FINISH FLOOR | INT | INTERIOR |
| AISC | AMERICAN INSTITUTE OF STEEL CONSTRUCTION | INV | INVERT |
| AL | ALUMINUM | KSI | KIPS PER SQUARE INCH |
| ALT | ALTERNATE | LAM | LAMINATED |
| ARCH | ARCHITECT / ARCHITECTURAL | LAV | LAVATORY |
| ASTM | AMERICAN SOCIETY FOR TESTING AND MATERIALS | LBS | POUNDS |
| AWIS | AMERICAN WELDING SOCIETY | LLH | LONG LEG HORIZONTAL |
| B/ | BOTTOM OF | LLV | LONG LEG VERTICAL |
| BLDG | BUILDING LINE | LIV | LIVING |
| BLKS | BLOCKING | MAN | MANUFACTURER |
| BRG | BEARING | MAS | MASONRY |
| CD | CATCH BASIN | MATL | MATERIAL |
| CG | CEILING COVER | MAX | MAXIMUM |
| CER | CERAMIC | MC | MECHANICAL CONTRACTOR |
| CI | CAST IRON | MIN | MINIMUM |
| CJ | CONTROL JOINT | MISC | MISCELLANEOUS |
| CL | CENTER LINE | MS | MASONRY SETTING |
| CMU | CONCRETE MASONRY UNIT | NC | NOT IN CONTRACT |
| CO | CLEAN OUT | NO | NUMBER |
| COL | COLUMN | OC | ON CENTER |
| CONC | CONCRETE | OD | OUTSIDE DIAMETER |
| CONST | CONSTRUCTION | OH | OVERHEAD |
| CONT | CONTINUOUS | OP | OPENING |
| CONTR | CONTRACTOR | OWT | OLY WASTE TREATMENT |
| CW | COLD WATER | PC | PLUMBING CONTRACTOR |
| DET | DETAIL | PCST | PRECAST |
| DIA. Ø | DIAMETER | PERIM | PERIMETER |
| DM | DIMENSION | PL | PLATE |
| DIST | DISTENSION | PLAS | PLASTIC |
| DW | DRYWALL | PLBS | PLUMBING |
| DWG | DRAWING | PLWD | PLYWOOD |
| EC | ELECTRICAL CONTRACTOR | PSF | POUNDS PER SQUARE FOOT |
| EJ | EXPANSION JOINT | PSI | POUNDS PER SQUARE INCH |
| EL | ELEVATION | PT | PRESSURE TREATED |
| ENG | ENGINEER | PTN | PARTITION |
| EP | EPOXY PAINT | PVC | POLYVINYL CHLORIDE |
| EPDM | ETHYLENE PROPYLENE DIENE TERPOLYMER | QT | QUARRY TILE |
| EXC | EXCAVATE / EXCAVATION | RD | ROOF DRAIN |
| EXP | EXPANSION | REG | REGRESSED |
| EXIST | EXISTING | RECT | RECTANGLE |
| EXT | EXTERIOR | REIN | REINFORCED |
| EW | EACH WAY | REQD | REQUIRED |
| FD | FLOOR DRAIN | RESL | RESILIENT |
| FDN | FOUNDATION | RET | RETAINING |
| FEC | FIRE EXTINGUISHER CABINET | RO | ROUGH OPENING |
| FN | FINISH | SCH | SCHEDULE |
| FL | FLOOR | SDI | STEEL DECK INSTITUTE |
| FTS | FOOTING | SECT | SECTION |
| GALV | GALVANIZED | SM | SIMILAR |
| GC | GENERAL CONTRACTOR | SP | SPECIFICATION |
| GYP | GYPSEUM | SS | STAINLESS STEEL |
| GWB | GYPSEUM WALL BOARD | SSR | STANDING SEAM ROOF |
| HD | HOSE BIB | STD | STANDARD |
| HW | HARDWARE | STR | STRUCTURAL |
| HM | HOLLOW METAL | SUSP | SUSPENDED |
| HORIZ | HORIZONTAL | T/ | TOP OF |
| HRS | HOT ROLLED STEEL | TEL | TELEPHONE |
| HT | HEIGHT | T&G | TONGUE AND GROOVE |
| HW | HOT WATER | TYP | TYPICAL |
| ID | INSIDE DIAMETER | UND | UNLESS NOTED OTHERWISE |
| | | VGT | VINYL COMPOSITION TILE |
| | | VEST | VESTIBULE |
| | | WC | WATER CLOSET |
| | | WWF | WELDED WIRE FABRIC |

PTECH INNOVATION CENTER

WINCHESTER, INDIANA

DECEMBER, 2023

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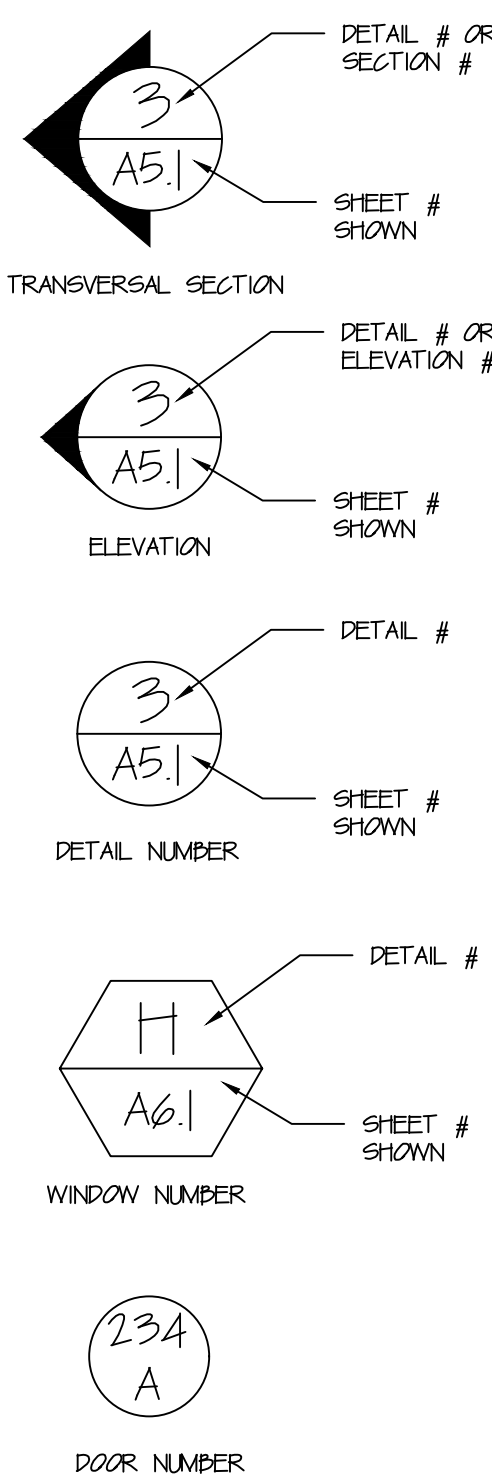
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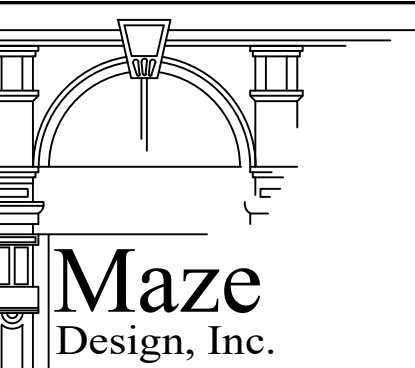
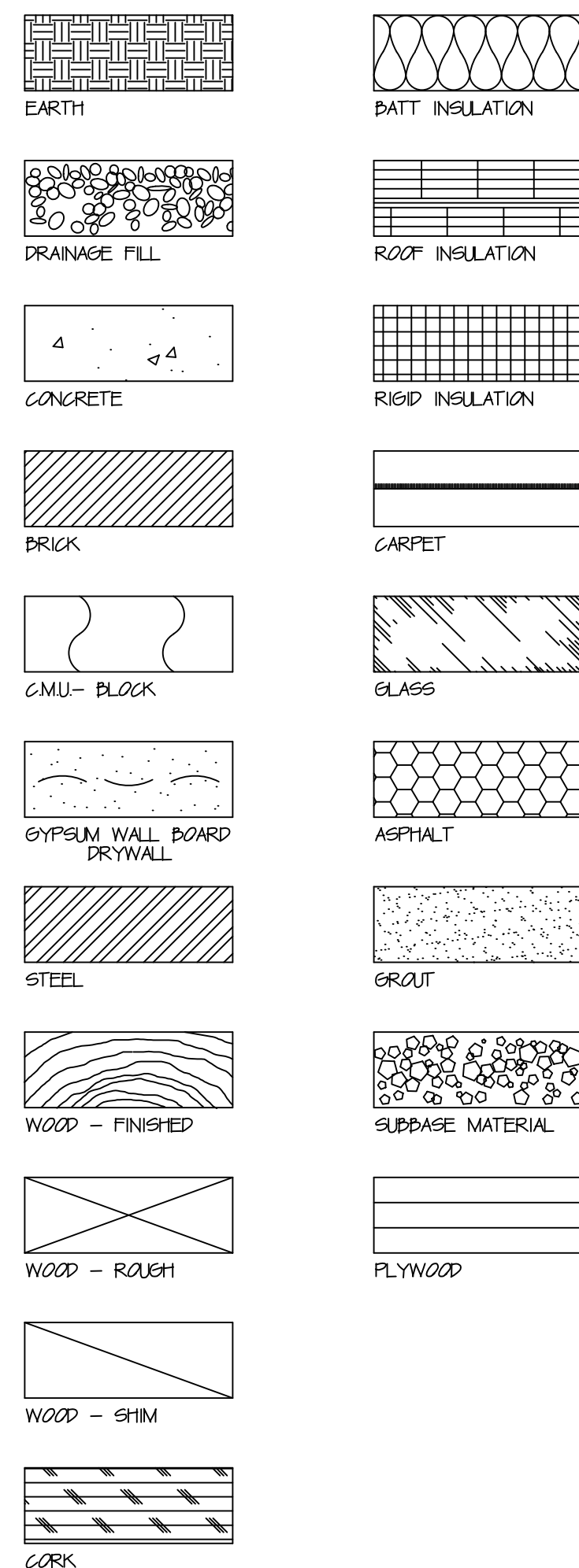
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SYMBOLS :

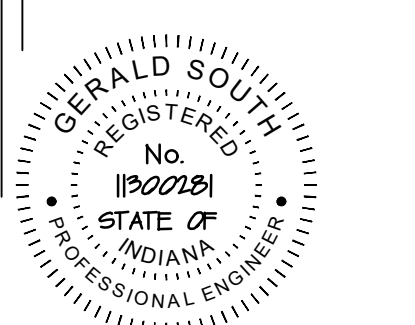


MATERIAL DESIGNATIONS :



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WINCHESTER INDIANA

Project No.... 2275-1
Coordinator.... INDERSTRÖT

Date..... 12/08/2023

Revision: No. Date

S.W. 1/4 16 20 North 14 East Winchester White River Randolph Indiana
Quarter *Section* *Township* *Range* *City of* *Civil Township* *County* *State of*

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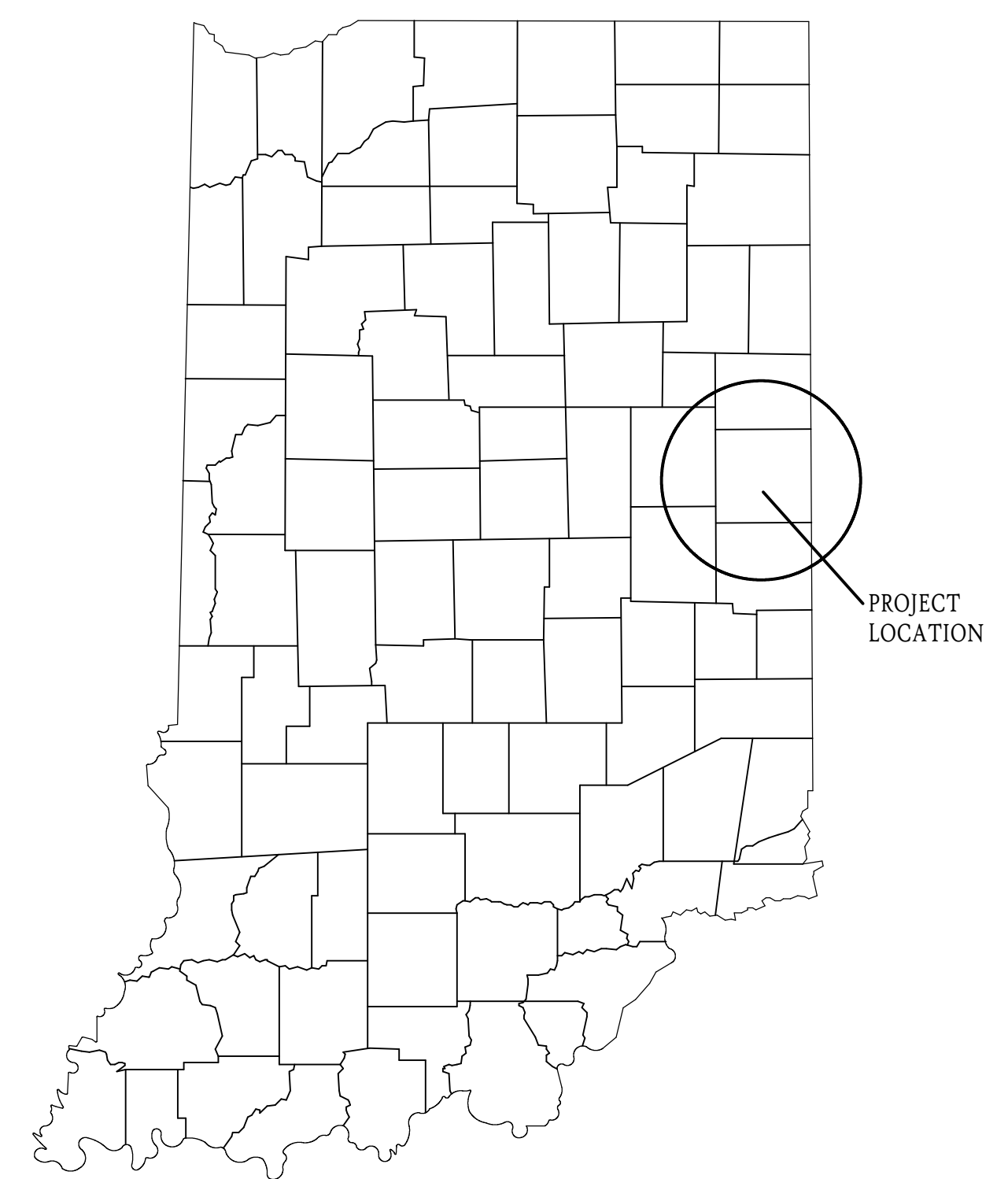
EX. LEGEND

- xxxx — Existing Contour
- ss— Existing Sanitary Sewer Line
- Ⓢ Existing Sanitary Manhole
- W— Existing Water Line
- G— Existing Gas Line
- E— Existing Electric Line
- T— Existing Telecommunication Line
- ▣ Existing Storm Inlet

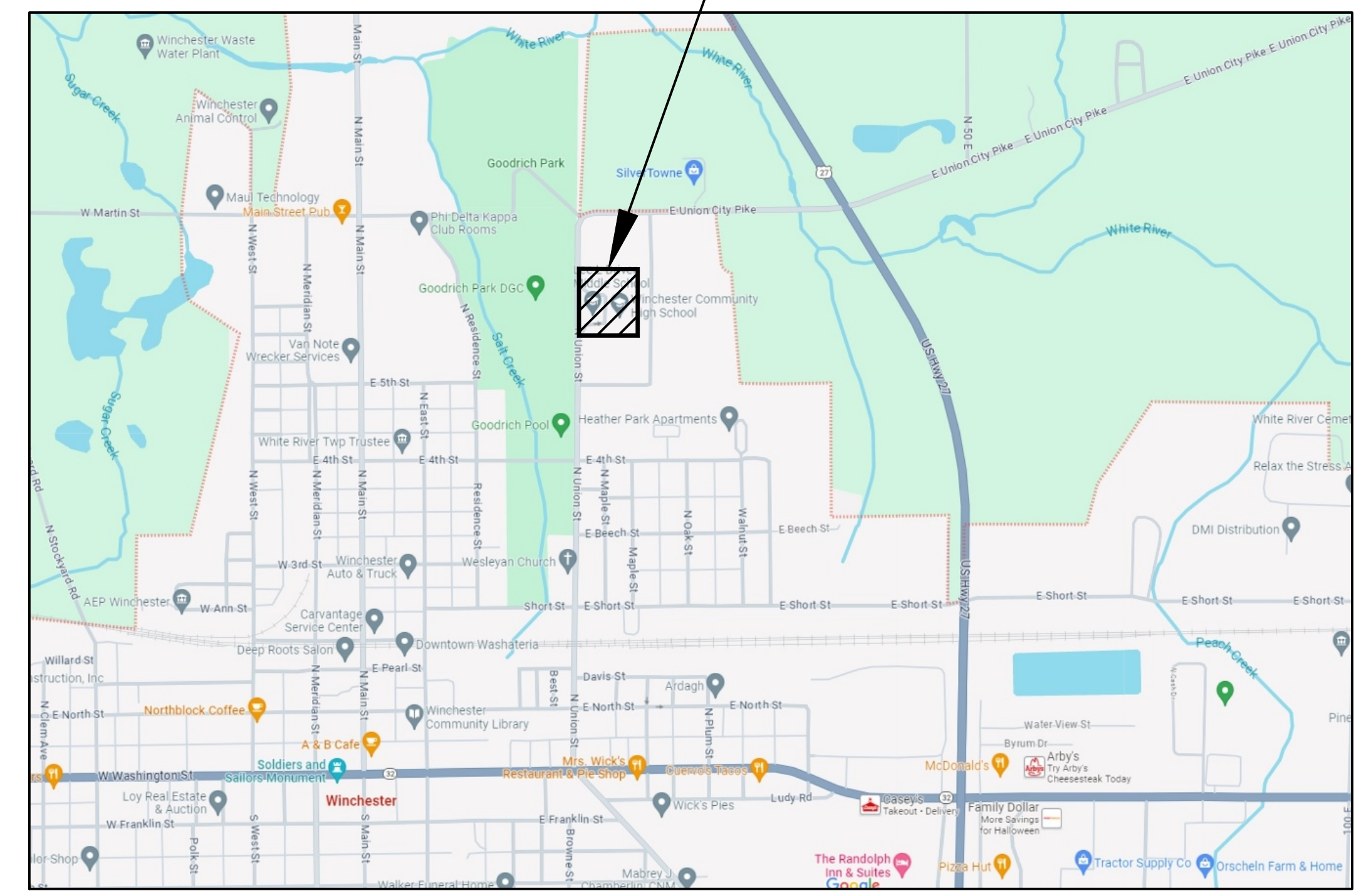
CONSTRUCTION LEGEND

- | |
|-----|
| T/C |
| PAV |

 Proposed Elevations
- XXXX— Proposed Contours
- Proposed Silt Fence
- FM— Proposed Force Main Line
- G— Proposed Gas Line
- E— Proposed Electric Line
- S— Proposed Storm Sewer Line
- W— Proposed Water Line
- ↘ Drainage Arrows
- ⊙ Cleanout
- ▣ Storm Inlet



Site



Vicinity Map
 Not to Scale

Project Specifications

The Standard Specifications for Construction and Materials of the State of Indiana, Department of Transportation (INDOT), in force 2023, the Indiana Department of Environmental Management (IDEM), and the City of Winchester, Planning and Zoning Regulations, including changes and supplemental specifications listed in the proposal shall govern this project.



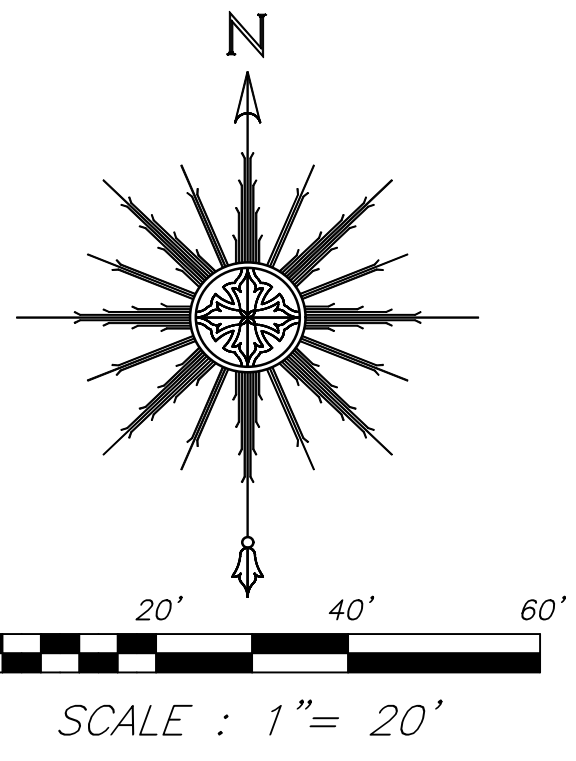
Know what's below.
 Call before you dig.

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LOCATION PLAN



GENERAL NOTES:

Construction Includes, but is not limited to the following.

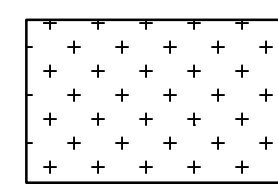
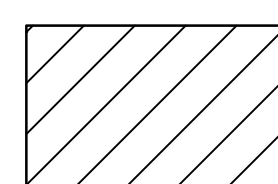
- Ⓐ Contractor to complete all required applications, permits & pay for all associated fees for construction and utilities.
- Ⓑ Contractor to complete all work in compliance with all required City/State/Federal Building codes.

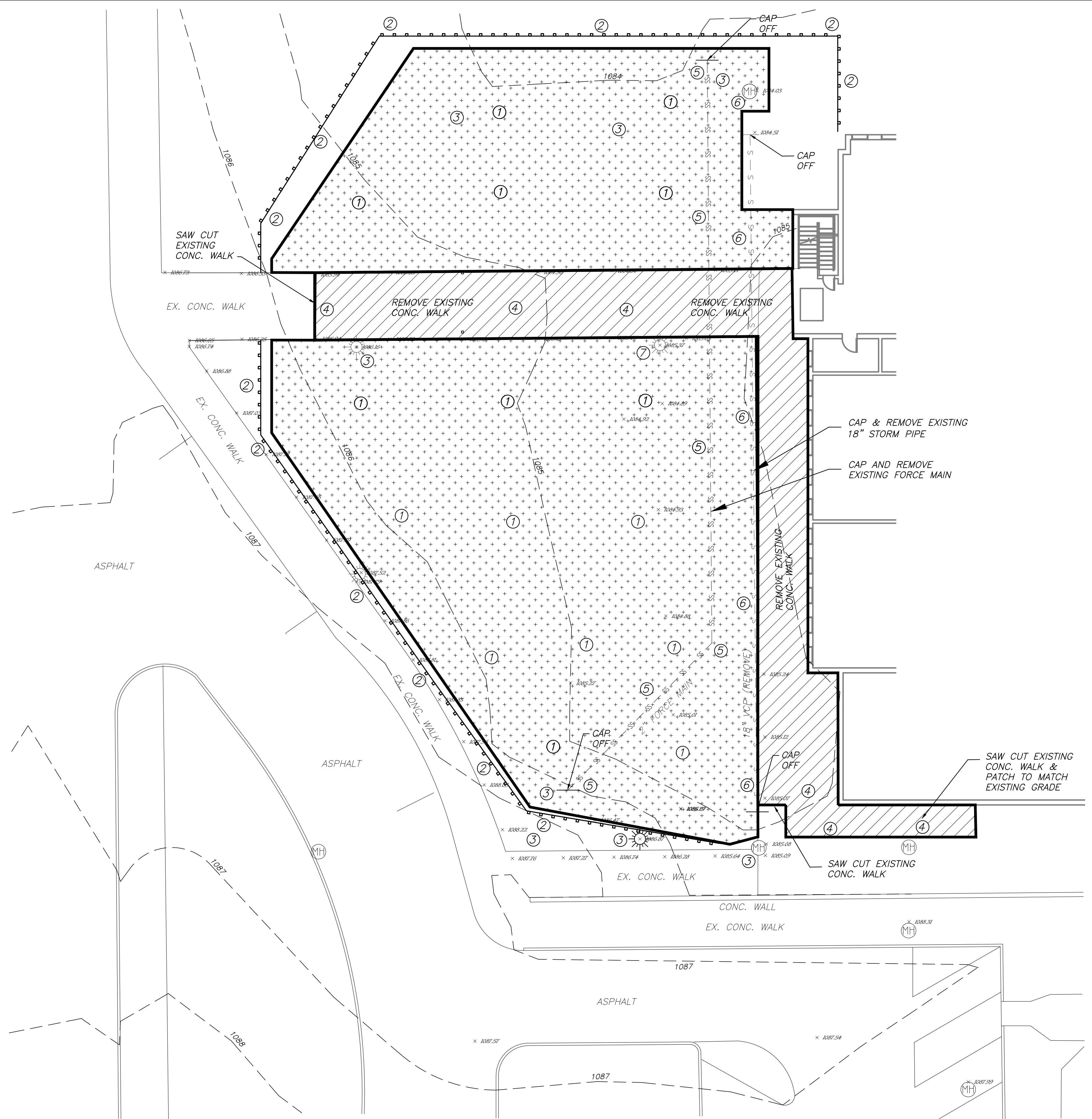
Proposed construction is generally drawn in bold or darker lineweights while existing entities are generally lighter.

DEMOLITION NOTES:

Construction Includes, but is not limited to the following.

- ① Contractor to remove all existing topsoil and vegetation where specified and cut/fill to subgrade as required to provide finish elevations as designed. Contractor to remove trees and stumps. Contractor to haul offsite at contractors expense. Contractor to coordinate with owner if tree is in question to be removed.
- ② Contractor to install silt fence as shown for erosion control
- ③ Contractor is to protect existing underground utilities and is to verify location using 811 locating services. Contractor is responsible for any damages to underground utilities and must replace damages at their expense.
- ④ Contractor to saw cut and remove existing concrete/asphalt where specified and cut/fill to subgrade as required to provide finish elevations as designed. Patch existing asphalt as required.
- ⑤ Contractor to cap and remove existing 2" force main as required.
- ⑥ Contractor to cap and remove existing 18" storm sewer.
- ⑦ Remove light pole and return to owner. refeed existing light pole as required.

-  Contractor to remove all existing topsoil and vegetation where specified and cut/fill to subgrade as required to provide finish elevations as designed.
-  Contractor to saw cut and remove existing concrete/asphalt where specified and cut/fill to subgrade as required to provide finish elevations as designed.



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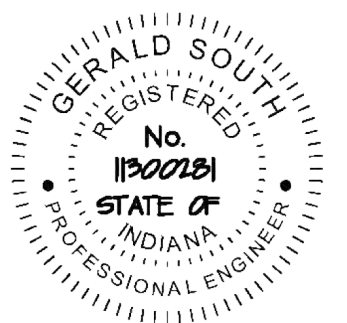
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Date..... 12/08/2015

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TOPOGRAPHY/
DEMOLITION PLAN



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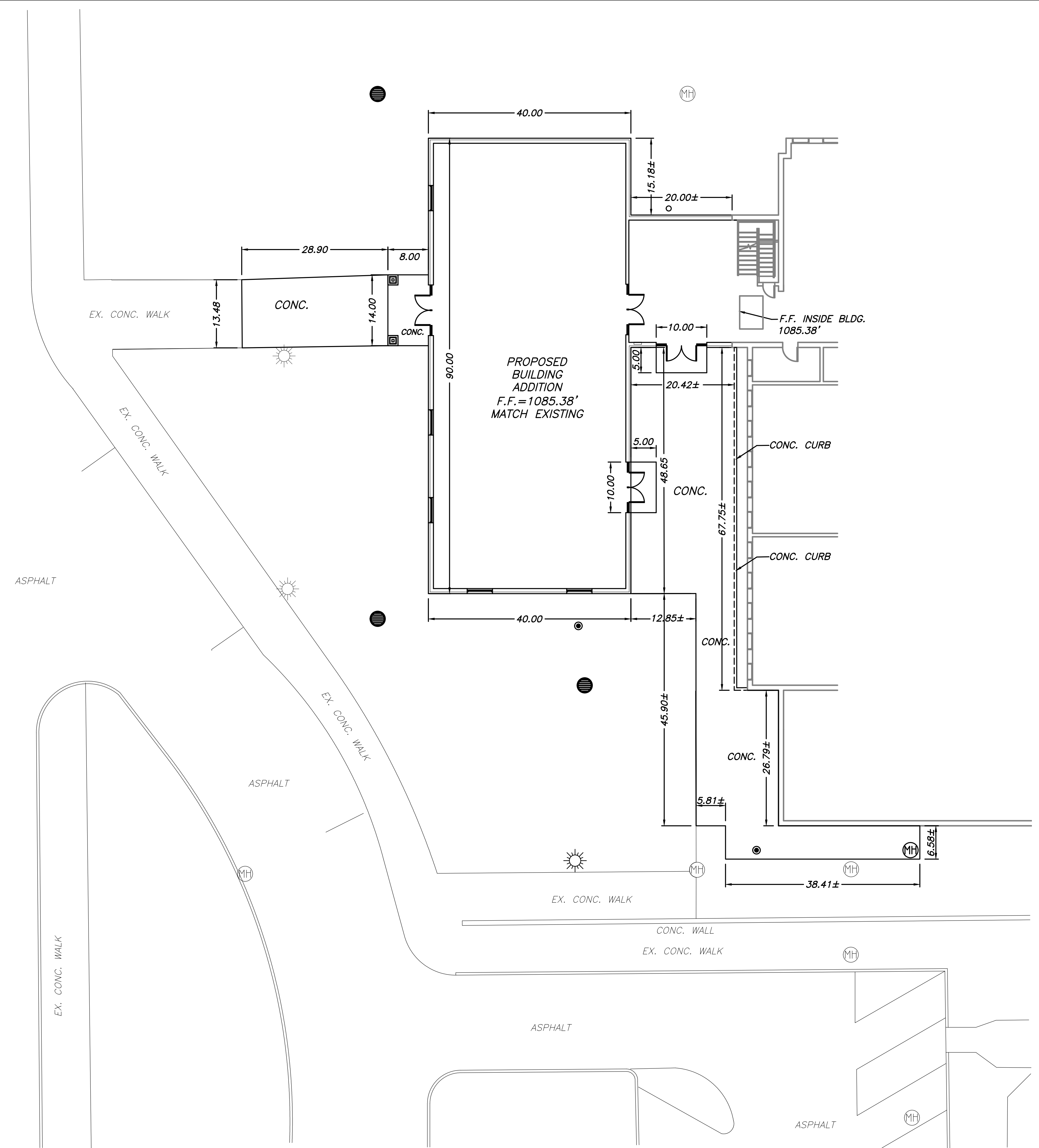
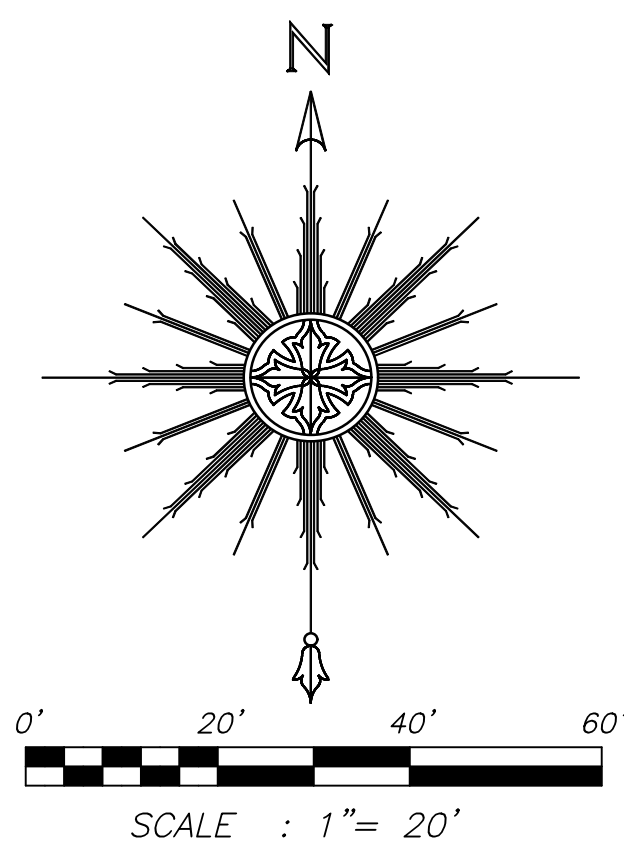
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Project No.... 2275-1
Coordinator.... INDERSTRODT

Date..... 12/08/2019

Revision: No. Date

DIMENSION PLAN



GENERAL NOTES:

Construction Includes, but is not limited to the following.

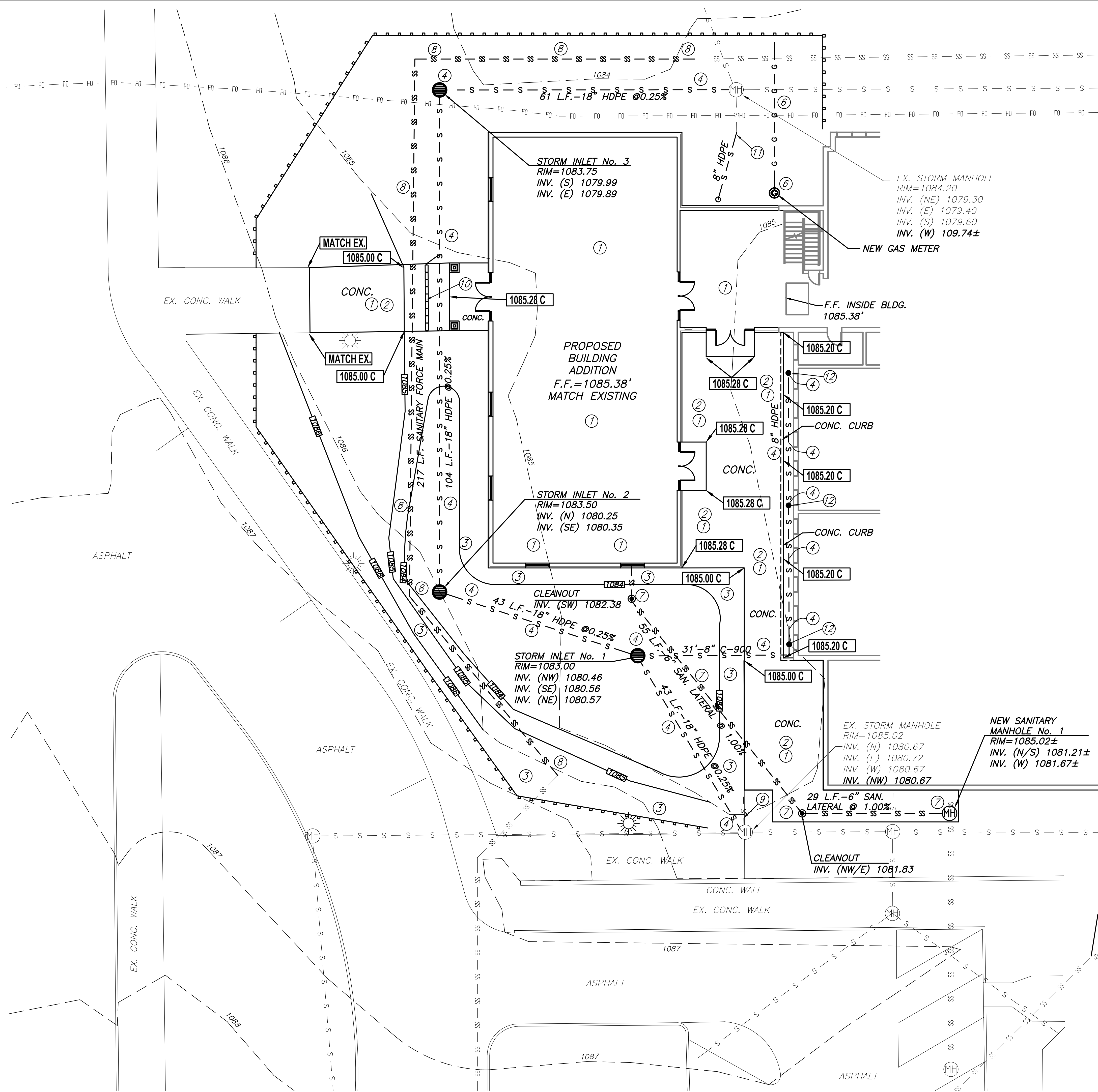
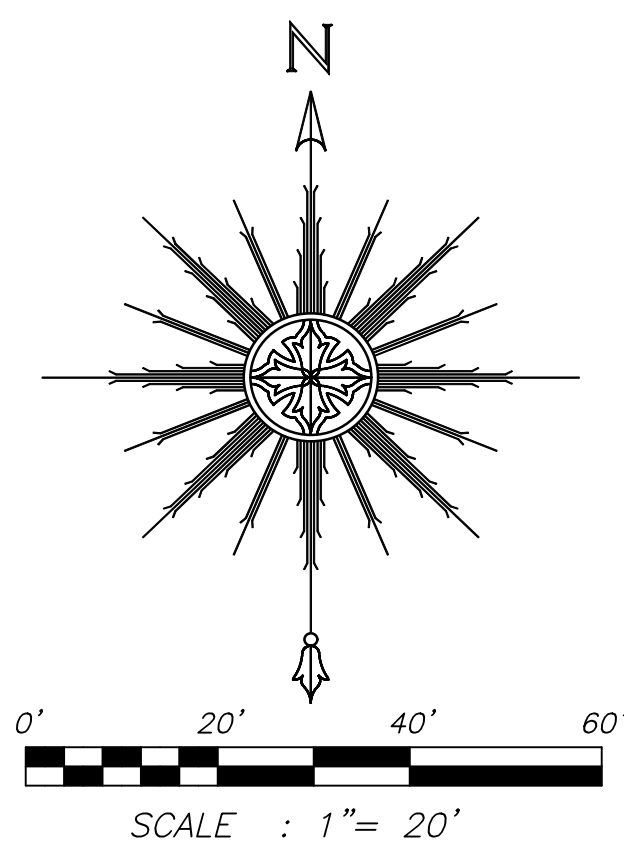
- (A) Contractor to complete all required applications, permits & pay for all associated fees for construction and utilities.
- (B) Contractor to complete all work in compliance with all required City/State/Federal Building codes.

Proposed construction is generally drawn in bold or darker line weights while existing entities are generally lighter.

CONSTRUCTION NOTES:

Construction Includes, but is not limited to the following.

- (1) Contractor to provide compacted subgrade as specified for building, concrete pads, and conc walks. Due to soil conditions, subgrade to be inspected by Geotechnical Engineer to determine if undercutting of the subgrade is required.
- (2) Contractor to construct concrete walks, pads with materials and thicknesses shown on detail sheet.
- (3) Contractor to provide slope away from walks and building, blending into surrounding grades, seed and mulch to drain.
- (4) Install new storm sewer system as shown and connect all downspouts. Storm sewer system to have positive drainage.
- (5) Electric service will be extended by local electric company.
- (6) Utility owner to extend gas to the building from existing gas line.
- (7) Contractor is to install new 6" sanitary lateral and connect into new manhole. Contractor to install new manhole over existing lateral as shown on southside of building. All manhole connections shall be cored and booted using a Kor-N-Seal boot or equal. Contractor to provide flow channel in bottom of manhole when taping manhole.
- (8) Contractor to cap and re-route existing 2" force main around building as shown.
- (9) Contractor to abandon and cap off existing storm.
- (10) Contractor to provide and install Zurn Z874-12-HDP trench drain. Connect to underground storm sewer.
- (11) Contractor to provide and install ADS dual wall reducer 18"x8" product code 1872AN or equal.
- (12) Contractor to provide and install ADS Nyloplast inline drian basin with 8" standard grate assembly yard inlet.



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 Coordinator: INDERSTRODT

Date: 12/08/2015

Revision: No. Date

SITE GRADING PLAN

drawing
 of C-400

GENERAL NOTES

ELEVATION DATUM INCORS GPS Geodetic Monuments NAD83/NAVD88

UTILITIES The contractor shall, at least two working days prior to starting work, notify the area Underground Utility Protection Service, and the owners of utilities having wires, poles, pipes, conduits, manholes or other structures that may be affected by this operation, including all structures which are affected and not shown on these plans, of his intent to start construction operations. After commencing construction, the Contractor shall report immediately to the owner or operator of the utility any break in its lines or any dent, gouge, groove, or other damage to the lines or their coating or cathodic protection. The Contractor must also alert the nearby occupants of any emergency he may create or discover in connection with excavation in and around the utilities.

UNDERGROUND UTILITIES The location of the underground utilities shown on these plans has been obtained by diligent field checks and searches of available records. Observations have been made from ground level and were not conducted by "confined space entry" unless otherwise noted. It is believed that they are essentially correct, but Beals-Moore & Associates does not guarantee their accuracy or completeness. The Contractor shall be aware that, due to lack of adequate information, all existing utilities may not be reflected on these plans. It shall be the Contractor's responsibility to field verify and locate any and all existing utilities horizontally and vertically prior to construction. Any utility, including field tiles and drains, damaged during construction shall be repaired or replaced in kind at the Contractors expense.

MAINTENANCE OF TRAFFIC: All traffic maintenance to be coordinated with the City of Winchester Engineer and/or Randolph County Highway Department

REPLACEMENT The Contractor shall replace at his own expense any item not specifically listed for removal that is damaged or destroyed by his operations.

EROSION CONTROL: Silt fence to be constructed around the perimeter of the site. Inlets to have erosion control measures placed around surface.

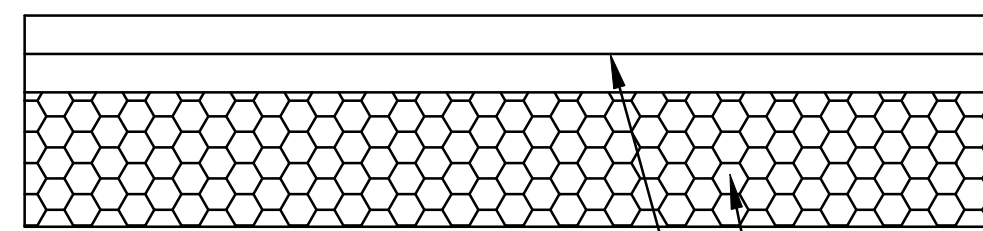
All graded areas shall have vegetation established as soon as practical and shall conform to the seeding and fertilizing specifications below.

Seeding, Mulching, and Fertilizer

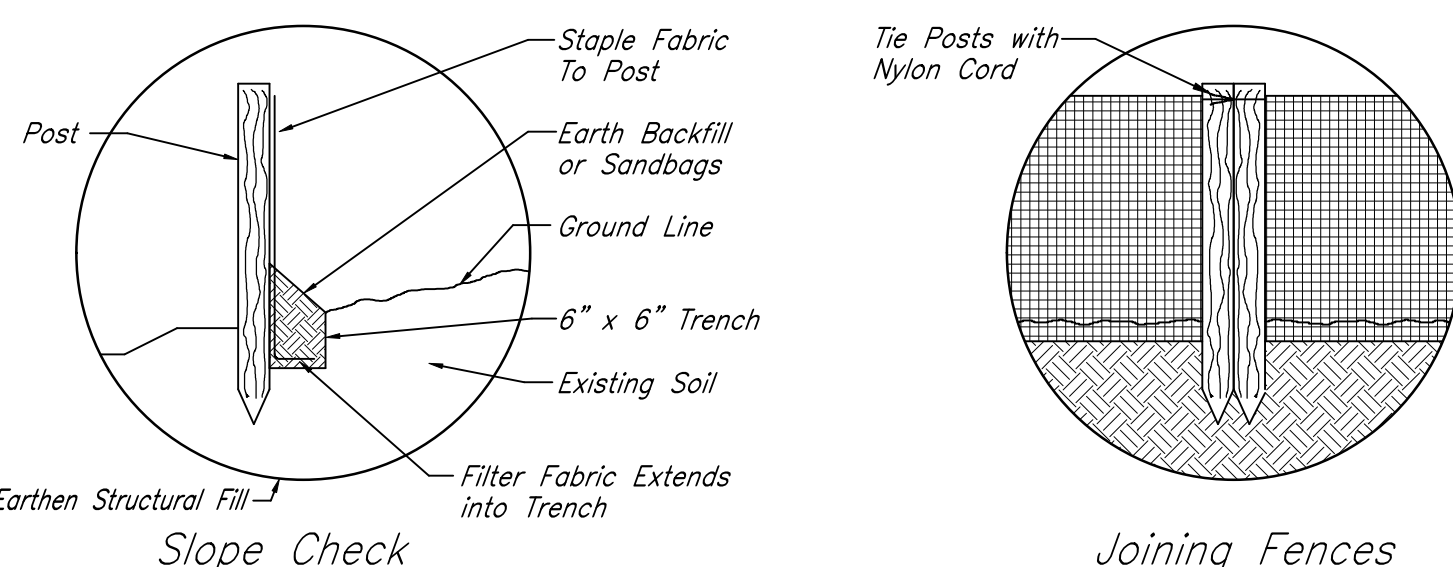
The area to be seeded shall be made smooth and uniform and shall be in accordance with the finished grade and cross section shown on the plans or as otherwise designated. The seed bed, if not loose, shall be loosened to a minimum depth of 3 inches (76 mm) before fertilizer or seed is applied. In areas of excessive vehicular traffic, such as parking of construction equipment, the soil shall be loosened to a minimum depth of 6 inches (152 mm). Fertilizer with a mixture of 12-12-12 shall be spread uniformly over the area to be seeded. Fertilizer shall be spread at the rate of 800 pounds per acre (897 kilogram per hectare) unless otherwise specified. Seed may be drilled in or mixed with water, but shall not be covered more than 1/2 of an inch (12.5 mm). The mixture shall be sprayed over the area to be seeded. An approved mechanical method which shall place the seed in direct contact with the soil may be used. In places inaccessible to mechanical equipment, or where the area to be seeded is small, a hand operated cyclone seeder or other approved equipment may be used. Leguminous seeds, unless otherwise specified, shall be inoculated. The culture shall be mixed with sufficient water to distribute it thoroughly. The seed shall be wetted thoroughly with the solution and allowed to dry sufficiently to be in condition for sowing. Inoculated seed shall be sown within 30 hours after the treatment. Where seeding is to be done by hydraulic methods, the inoculate may be added to the water in the spray tank.

The seed mixture shall be applied at specific locations. It shall be applied at the rate of 150 pounds per acre (168 kg/hectare). The mixture shall consist of 95 pounds (43.1 kg) of a 4-way blend of turf type tall fescues such as Tribute, Rebel II, Trailblazer, or approved equal; 20 pounds (9 kg) Jasper Red Fescue or approved equal; and 35 pounds (16 kg) certified fine bladed perennial ryegrass such as Regal, Fiesta, Blazer, or approved equal.

Mulching material shall be applied uniformly in a continuous blanket at the rate of 2 tons per acre (4.5 megagrams/hectare). Mulch shall be placed within 24 hours after seeding. Mulch shall be secured in a method approved by the engineer.



CONCRETE DETAIL



SILT FENCE DETAILS

GENERAL CONCRETE NOTES

GENERAL 1. The consultant or engineer will not be responsible for means, methods, procedures, techniques, or sequences of construction that are not specified herein. The consultant or engineer will not be responsible for safety on the jobsite, or for failure by the contractor to perform work according to contract documents.

2. The contractor shall comply with all laws, ordinances, rules, orders and regulations relating to the performance of the work required by contract.

3. The contractor shall be required to maintain a set of construction record drawings on site during the project.

4. The contractor shall plan his operations so that disruption of existing facilities is at a minimum. The contractor shall be required to provide a schedule of construction, prior to the start of actual construction for owner approval.

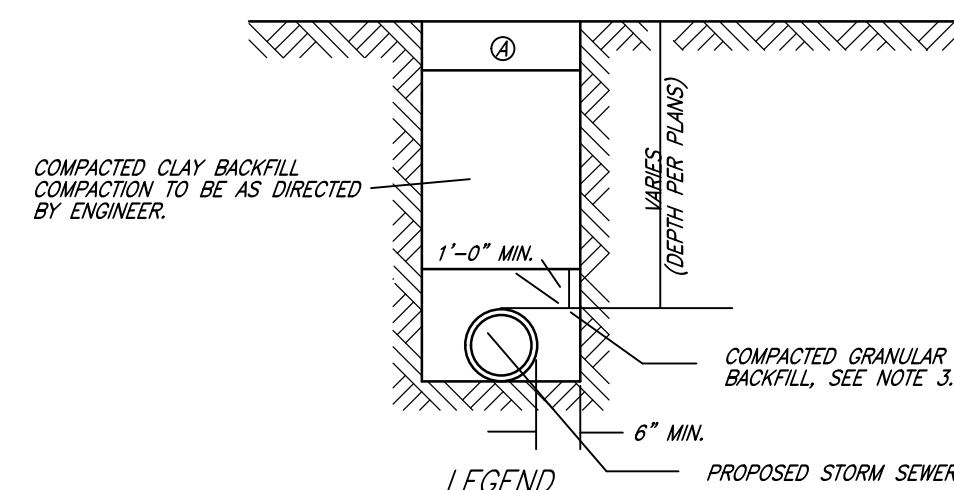
5. The contractor shall restrict construction activities to the limits of construction on the plans.

6. The contractor shall carefully preserve benchmarks, property corners, reference points, stakes and other survey reference monuments or markers. In cases of willful or careless destruction, the contractor shall be responsible for restoration of markers. Resetting of markers shall be performed by an Indiana Professional Surveyor at the approval of the owner.

7. The contractor shall restore all disturbed areas, to an equal or better condition than existed prior to construction. Drainage ditches or water courses which are disturbed by construction shall be restored to the grades and cross-sections which existed prior to construction.

8. The contractor will be responsible for all offsite disposal activities associated with this project. It is the contractors responsibility to abide by all laws and regulations associated with hauling and disposing of excess materials from the project site.

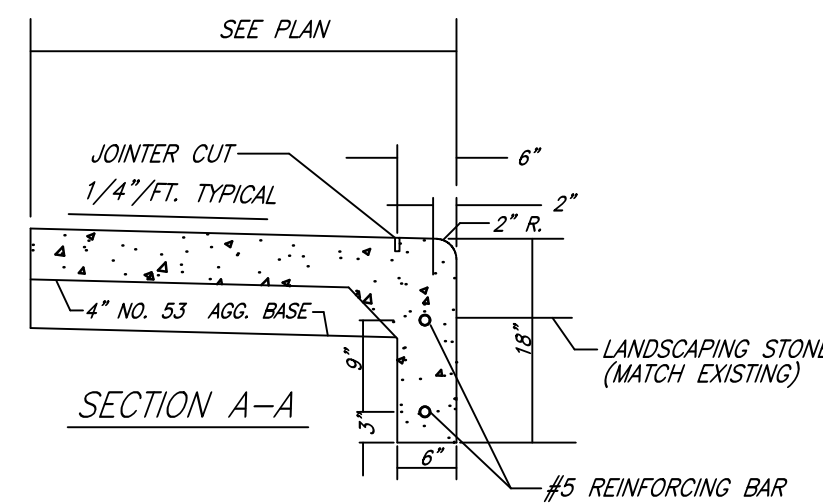
9. The contractor and subcontractors shall be solely responsible for complying with all federal, state and local safety requirements, exercising precautions at times for the protection of persons (including employees) and property. It is also the sole responsibility of the contractor and subcontractors to initiate, maintain and supervise all safety requirements, precautions and programs in connection with the work.



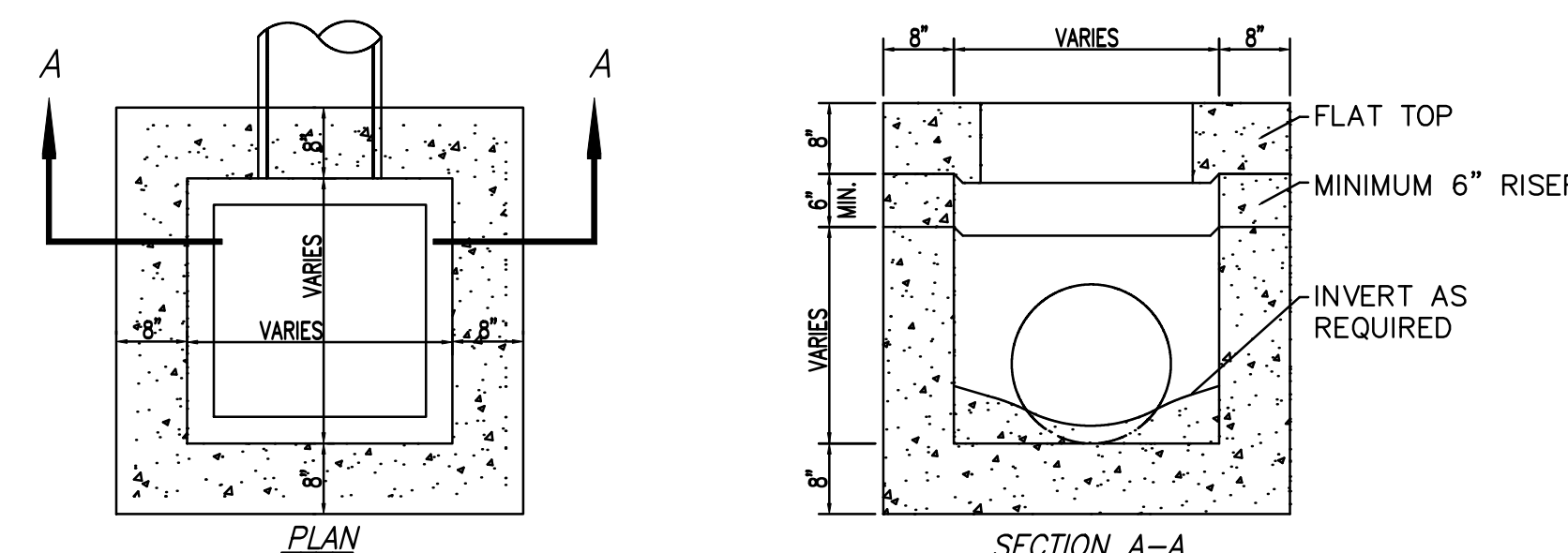
TRENCH BACKFILL DETAIL

- NOTES**
- ALL WORK AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF INDIANA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS".
 - ALL EXCAVATED AND UNUSED MATERIAL TO BE REMOVED FROM JOB SITE.
 - FILL MATERIAL AROUND PIPE TO BE COMPACTED GRANULAR BACKFILL.
 - ALL EXCAVATION, CONSTRUCTION AND RESTORATION MATERIALS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT STORM SEWER ITEM.

LAWN AREAS



INTEGRAL CURB & WALK DETAIL

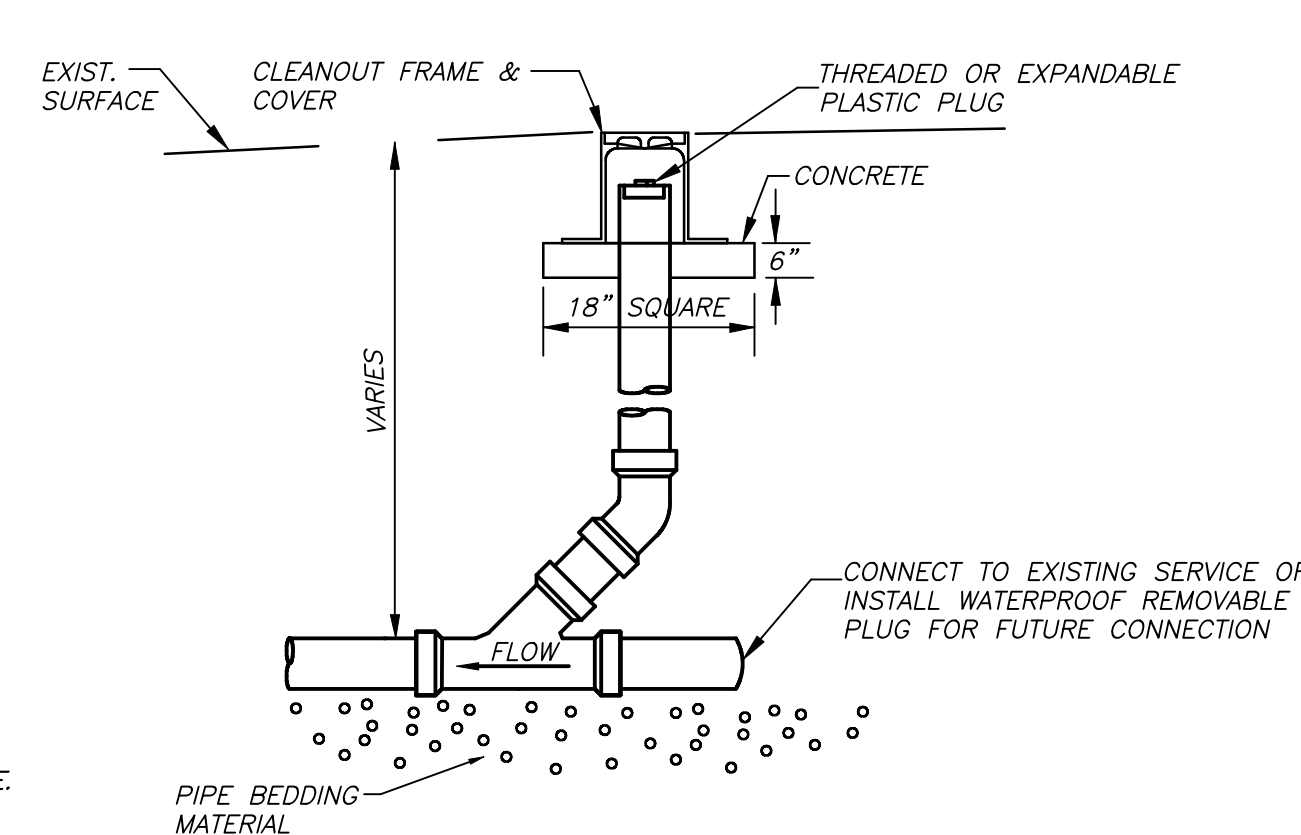


INLET BOX DETAIL

| Structure Name | Structure Type | Casting Type | Rim | Pipes In | Pipes Out |
|----------------|----------------|--------------------------|---------|--|--------------------|
| Storm Inlet 1 | Inlet Box | Neenah R-3210-A or Equal | 1083.00 | 1080.56 - 18" HDPE 1080.57 - 8" C-900 | 1080.46 - 18" HDPE |
| Storm Inlet 2 | Inlet Box | Neenah R-3210-A or Equal | 1083.50 | 1080.35 - 18" HDPE | 1080.25 - 18" HDPE |
| Storm Inlet 3 | Inlet Box | Neenah R-3210-A or Equal | 1083.75 | 1079.99 - 18" HDPE | 1079.89 - 12" HDPE |

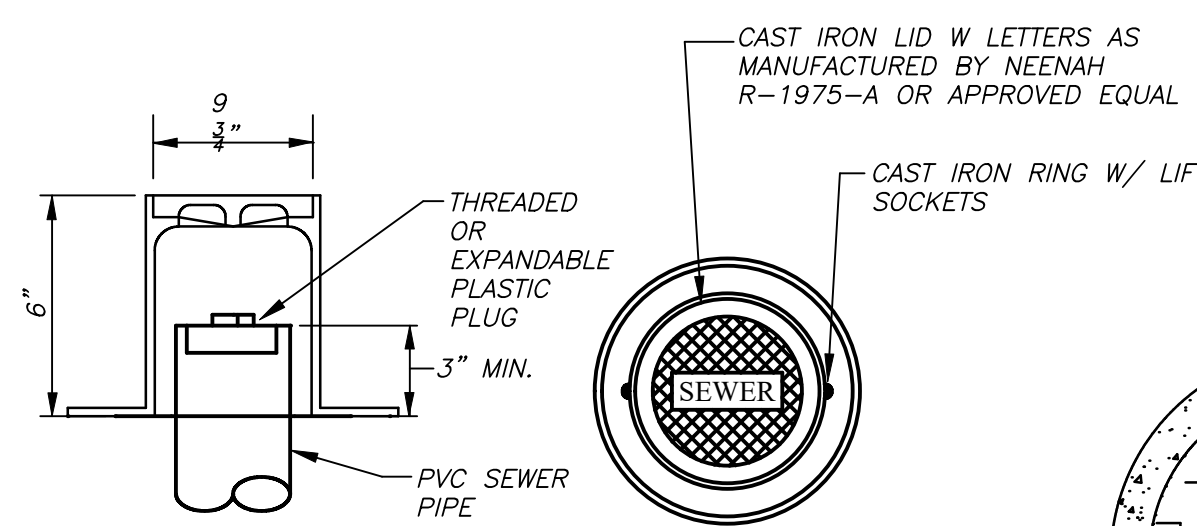
STORM STRUCTURE TABLE

NOT TO SCALE



CLEANOUT DETAIL

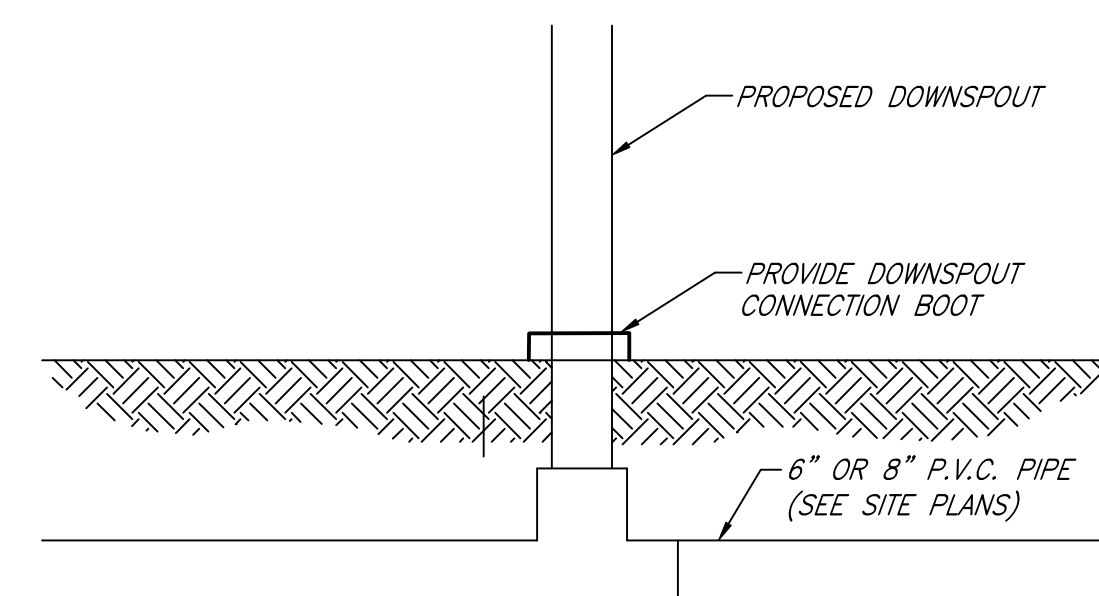
NOT TO SCALE



STANDARD MANHOLE

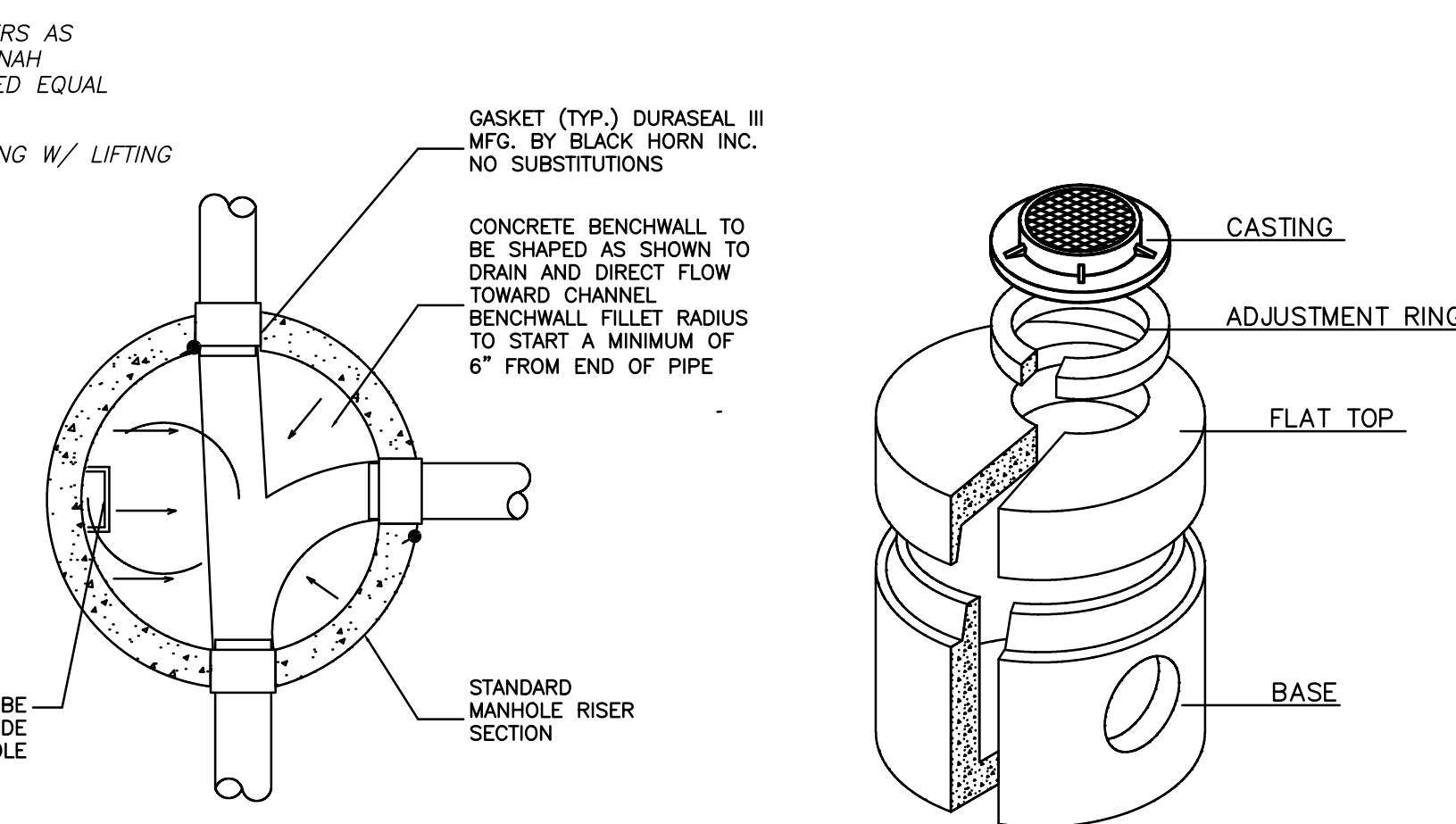
PLAN

NOT TO SCALE



DOWNSPOUT DETAILS

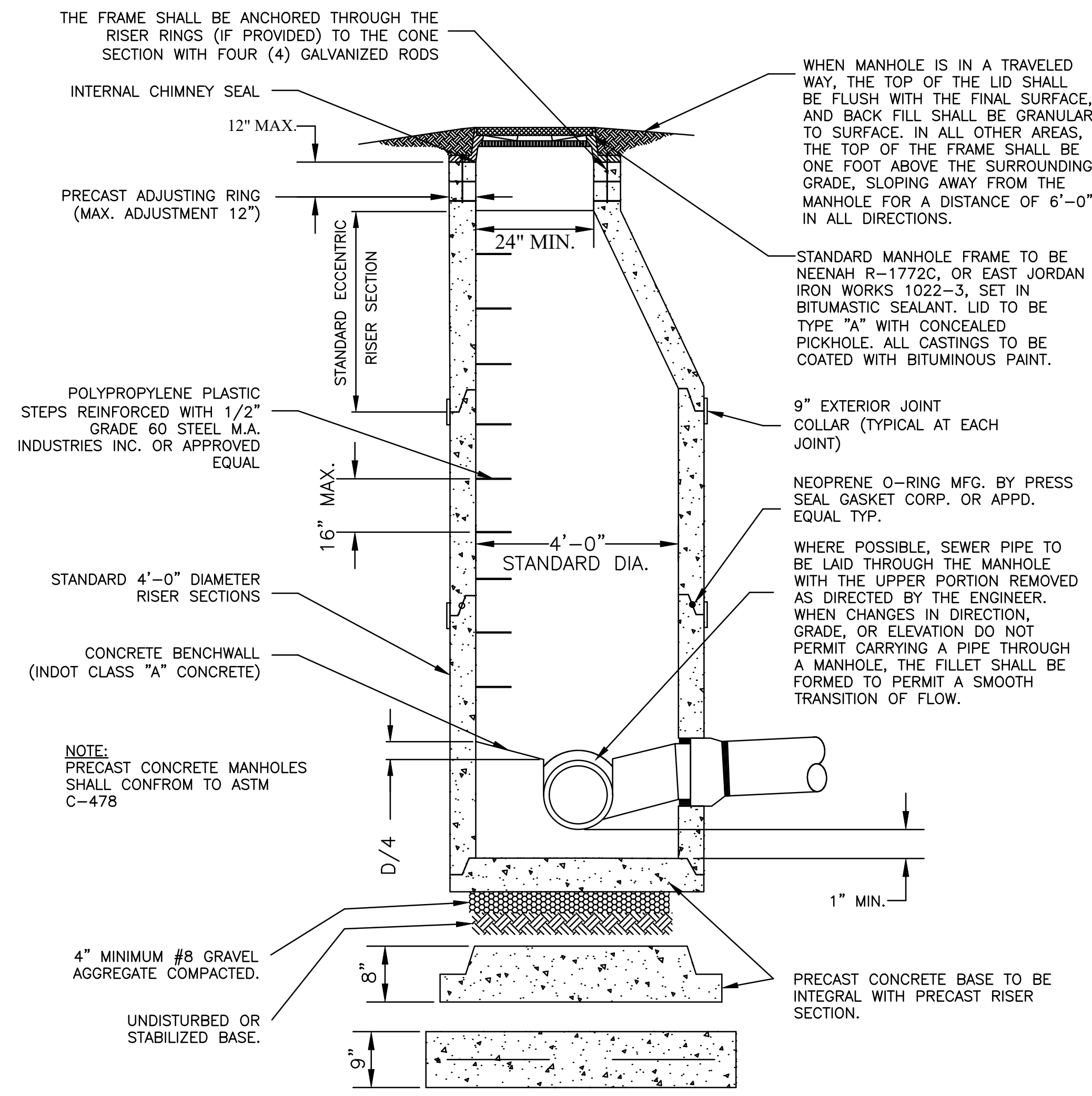
NOT TO SCALE



SHALLOW (<6FT) MANHOLE

FLAT TOP

NOT TO SCALE



SANITARY MANHOLE

NOT TO SCALE

Maze Design, Inc.
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 Richmond, IN 47374
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 Building & Interior
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 No. 1200281
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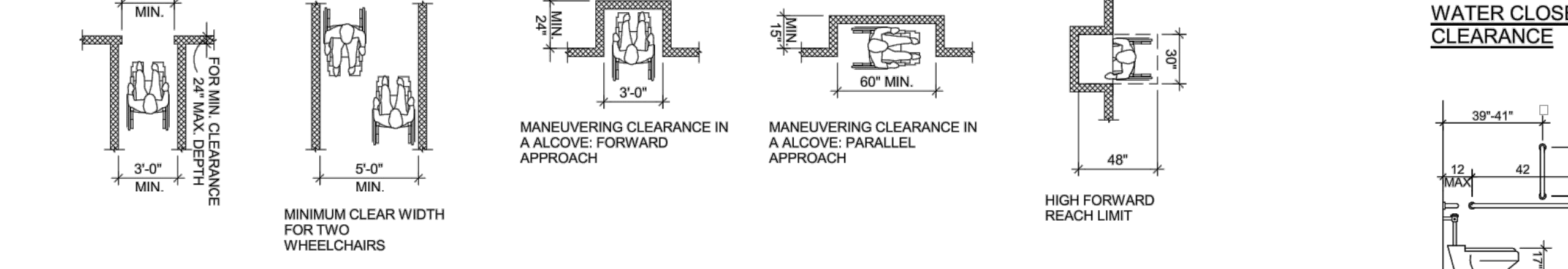
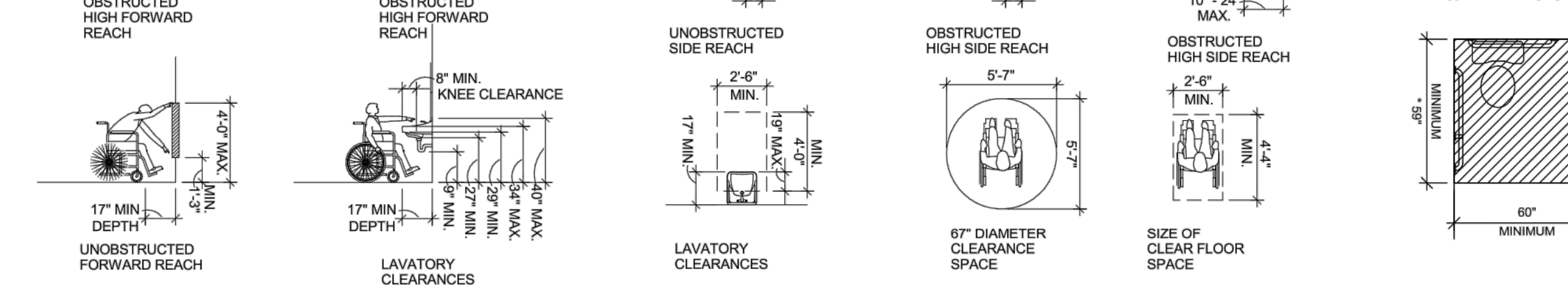
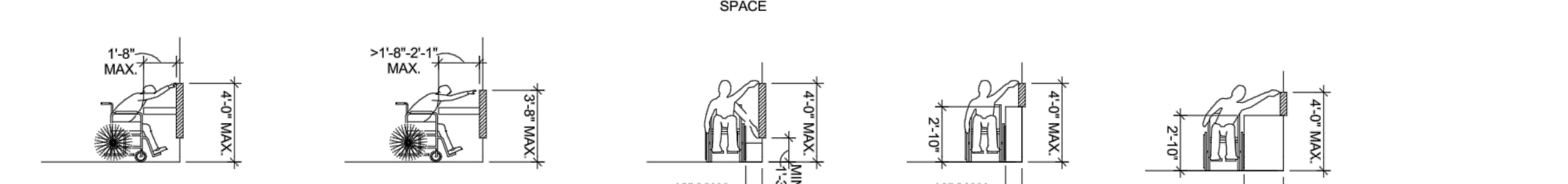
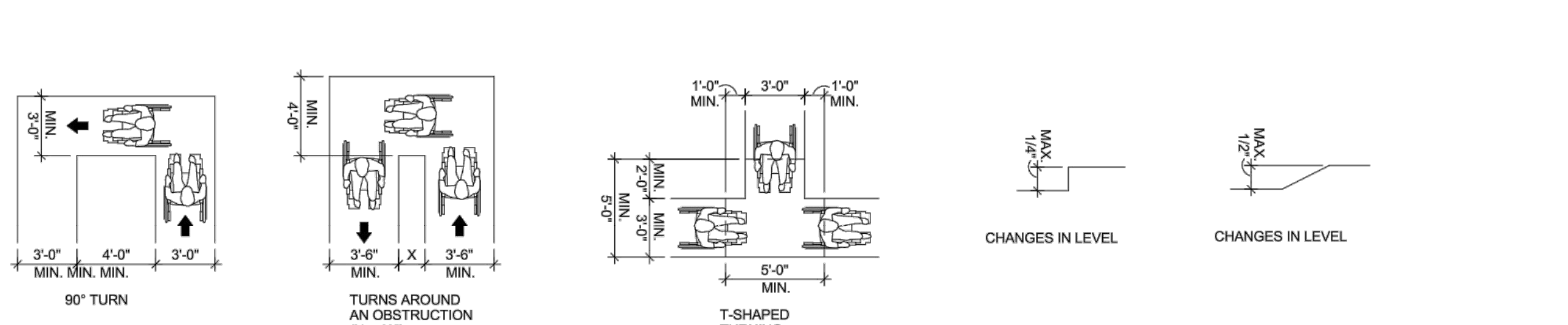
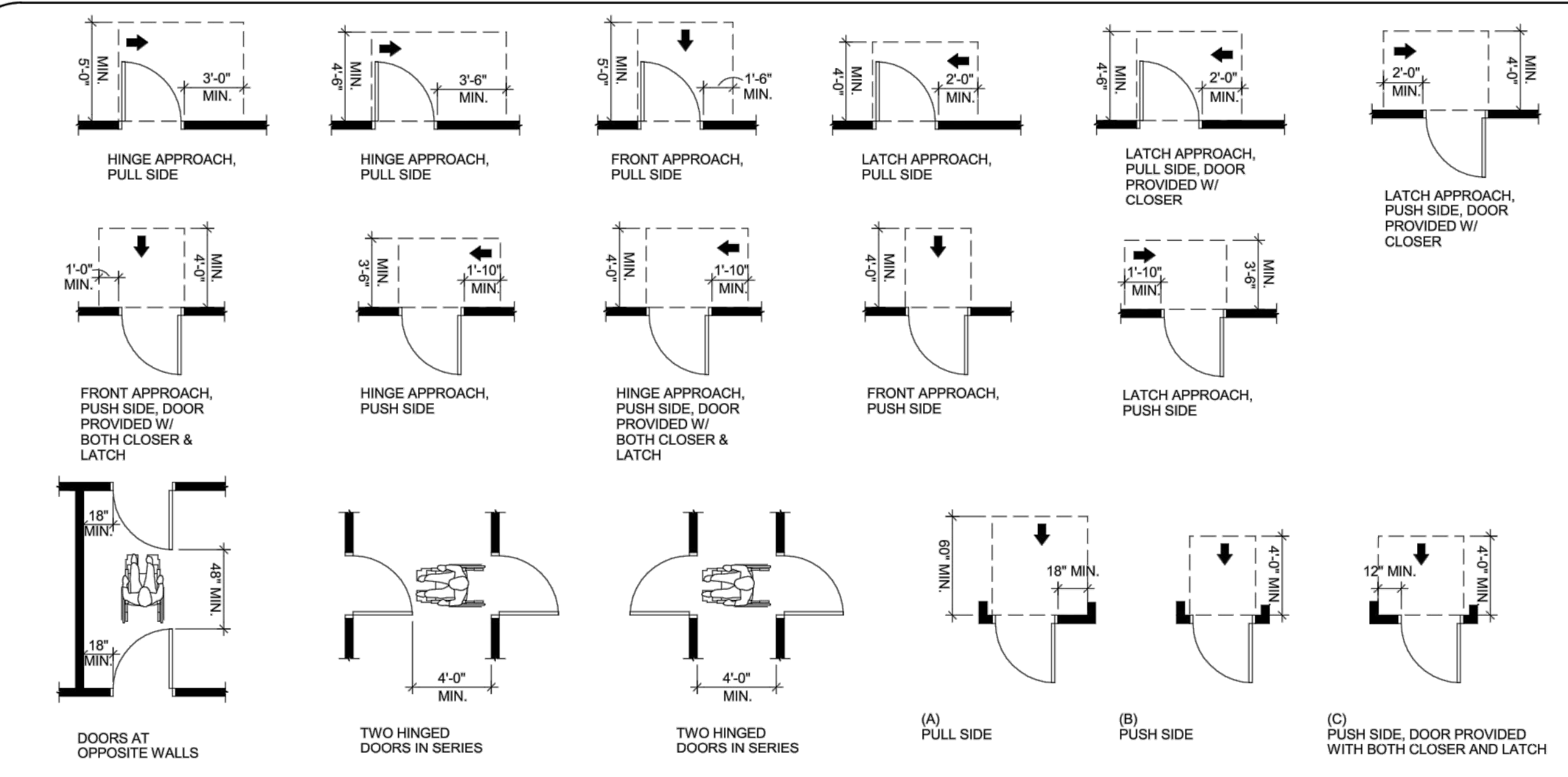
Project No..... 2275-1
 Coordinator..... INDERSTRODT

Date..... 12/08/2015

Revision: No. Date

SITE DETAIL

drawing
 C-500
 of



HARDWARE

HARDWARE HAND ACTIVATED DOOR OPENING HARDWARE IS REQUIRED TO BE CENTERED BETWEEN 30 AND 44 INCHES HIGH. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL HAVE TO BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, BY PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. LOCKED EXIT DOORS ARE REQUIRED TO OPERATE AS DESCRIBED ABOVE IN THE DIRECTION OF EGRESS.

CLOSERS THE MAXIMUM EFFORT TO OPERATE DOORS CANNOT EXCEED 5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS. REQUIRED FIRE DOORS MAY BE REQUIRED UP TO 15 POUNDS PRESSURE. THE PRESSURE IS TO BE MEASURED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE REQUIREMENTS. IF A DOOR HAS A CLOSER, THEN THE SWEEP FOOT OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 INCHES (75 MM) FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.

DOORS

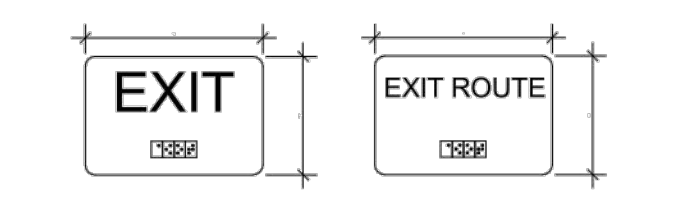
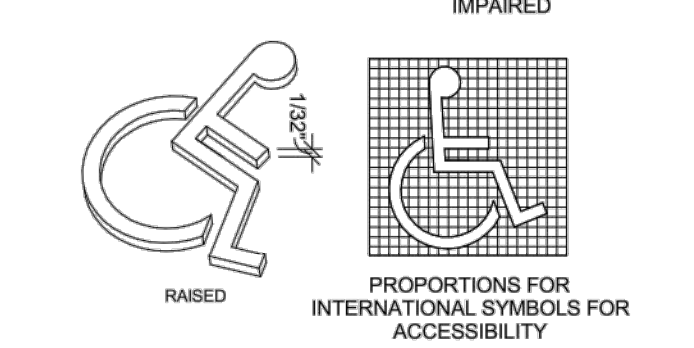
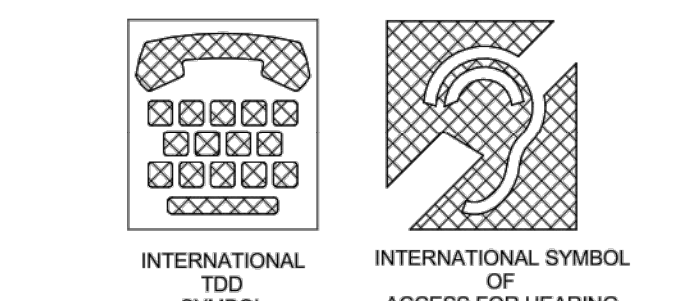
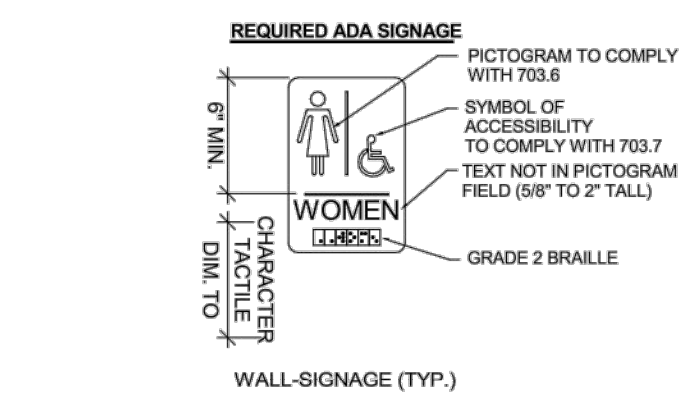
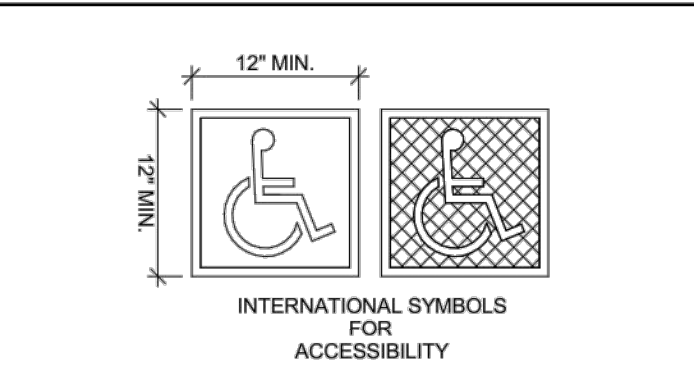
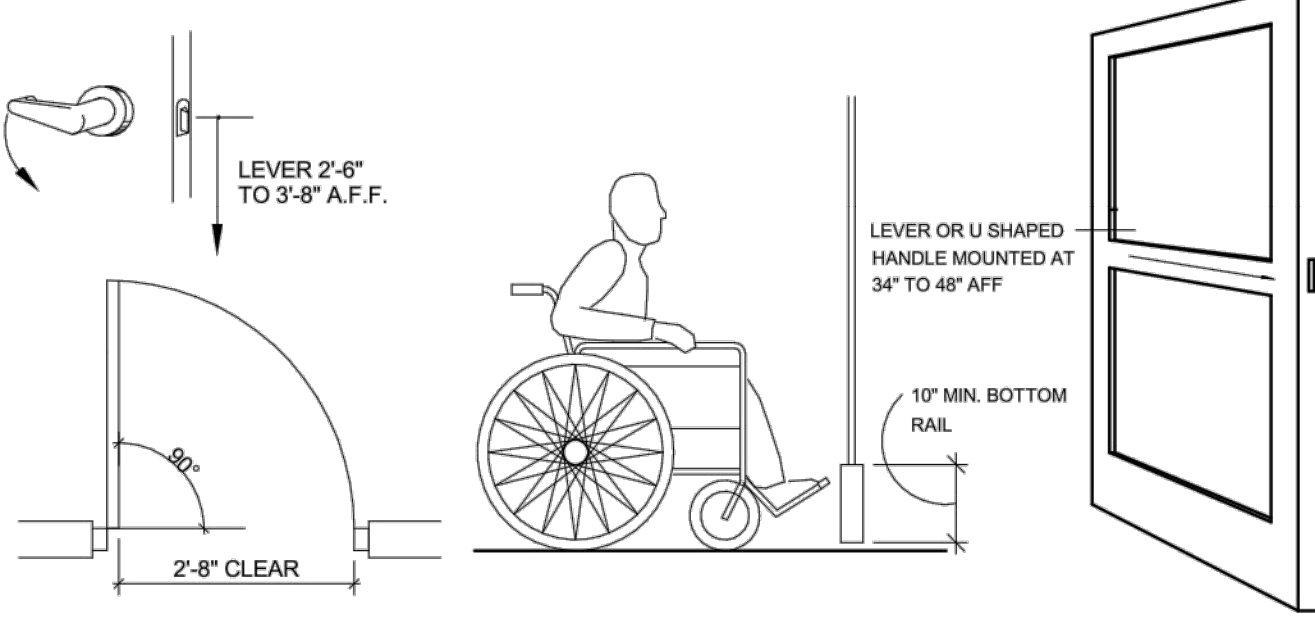
ENTRANCES ALL PRIMARY ENTRANCES TO BUILDINGS AND FACILITIES ARE REQUIRED TO BE MADE ACCESSIBLE. A PRIMARY ENTRANCE IS DEFINED AS, "... ANY ENTRANCE TO A FACILITY WHICH HAS A SUBSTANTIAL FLOW OF PEDESTRIANS TO ANY SPECIFIC MAJOR FUNCTION OF THE FACILITY." REVOLVING DOORS CAN NOT BE USED AS A REQUIRED ENTRANCE FOR THE HANDICAPPED. RECESSED DOORWAYS ARE REQUIRED TO BE ANCHORED TO PREVENT INTERFERENCE WITH WHEELCHAIR TRAFFIC.

DOOR WIDTHS & HEIGHTS REQUIRED EXIT DOORWAYS ARE REQUIRED TO HAVE A CLEAR OPENING NOT LESS THAN 32 INCHES WIDE. FOR HINGED DOORS, THE OPENING IS MEASURED WITH THE DOOR AT A 90 DEGREE ANGLE FROM ITS CLOSED POSITION. AT LEAST ONE OF A PAIR OF DOORS, INCLUDING AUTOMATIC DOORS, HAS TO PROVIDE THE 32 INCH CLEAR OPENING. DOOR HEIGHTS ARE REQUIRED TO BE A MINIMUM OF 80 INCHES.

THRESHOLD THRESHOLDS ARE REQUIRED TO BE NO MORE THAN 1/2 INCH HIGH. BEVEL OR SLOPE THE EXPOSED EDGE AT AN ANGLE NOT EXCEEDING 45 DEGREES SO THAT NO SINGLE VERTICAL CHANGE OF ELEVATION EXCEEDS 1/4" INCH.

- EXIT DOORS, TOILET ROOM AND CHANGING ROOM DOOR TO BE OPERABLE FROM INSIDE WITHOUT SPECIAL KNOWLEDGE, FORCE OR NEED OF KEY.
- SEE SPECIFICATION SHEET FOR RESPONSIBILITIES.
- ALL HARDWARE TO BE LEVER TYPE.

ENTRANCE SIGNS ALL BUILDINGS ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PHYSICALLY HANDICAPPED PERSONS SHALL BE IDENTIFIED WITH AT LEAST ONE STANDARD SIGN AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS.



ALL PERMANENT ROOMS MUST BE SIGNED PER 216 OF THE 2010 ADA LETTERS AND NUMBERS:

1. LETTERS AND NUMERALS SHALL BE RAISED 1/32" (0.8 MM) MINIMUM, UPPERCASE, SANS-SERIF OR SIMPLE SERIF AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE AT LEAST 5/8" (16 MM) HEIGHT, BUT NO HIGHER THAN 2" (50 MM). PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSIONS OF THE PICTOGRAM SHALL BE 6" (152 MM) MINIMUM IN HEIGHT. (ADAAG SEC. 4.30.4)

4. LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10. (ADAAG SEC. 4.30.2)

5. THE CHARACTERS AND BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND - EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND. (ADAAG SEC. 4.30.5)

6. CHARACTERS AND NUMBERS ON SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ. THE MINIMUM HEIGHT IS MEASURED USING AN UPPER CASE X. LOWER CASE CHARACTERS ARE PERMITTED. (ADAAG SEC. 4.30.3)

7. BRAILLE SHALL BE CONTRACTED (GRADE 2) BRAILLE AND SHALL COMPLY WITH SECTION 703.4. (ICC/ANSI SEC. 703.4.1)

8. BRAILLE SHALL BE BELOW THE CORRESPONDING TEXT. IF TEXT IS MULTILINE, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8" (9.5 MM) MIN. FROM ANY OTHER TACTILE CHARACTERS AND 3/8" (9.5 MM) MIN. FROM RAISED BORDERS AND DECORATIVE ELEMENTS. BRAILLE PROVIDED ON ELEVATOR CAR CONTROLS SHALL BE SEPARATED 3/16" (4.8 MM) MIN. EITHER DIRECTLY BELOW OR ADJACENT TO THE CORRESPONDING RAISED CHARACTERS OR SYMBOLS. (ICC/ANSI SEC. 703.4.4)

SIGN LOCATIONS:

9. ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL SHALL BE IDENTIFIED WITH A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS. (ICC/ANSI SEC. 110.10)

10. WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT SHALL BE 60" (1525 MM) ABOVE THE FINISH FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING APPROACH WITHIN 3" (76 MM) OF THE SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR. (ADAAG SEC. 4.30.10)

11. ADDITIONAL DIRECTIONAL SIGNS ALONG ACCESSIBLE PATH OF TRAVEL ARE REQUIRED. (ICC/ANSI SEC. 110.11)

12. BUILDINGS REMODELED TO PROVIDE ACCESSIBLE SANITARY FACILITIES FOR PUBLIC USE SHALL HAVE INFORMATION POSTED IN THE LOBBY AS PART OF THE BUILDING DIRECTORY.

INTERNATIONAL SYMBOL OF ACCESSIBILITY:

13. STANDARD USED TO IDENTIFY ACCESSIBLE FACILITIES.

14. WHITE FIGURE ON BLUE BACKGROUND, COLOR # 15090 ON FEDERAL STANDARD # 595A.

15. WHEN ENFORCING AGENCY DETERMINES, IF APPROPRIATE, SPECIAL DESIGNS AND COLORS MAY BE APPROVED.

16. DOTS TO BE 0.09" (2.3 MM) TO 0.11" (1.5 MM) ON CENTER IN EACH CELL.

17. 0.24" (6.1 MM) TO 0.31" (7.6 MM) SPACE BETWEEN CELLS HORIZONTALLY.

18. 0.39" (10.0 MM) TO 0.41" (10.2 MM) SPACE BETWEEN CELLS VERTICALLY.

19. DOTS RAISED 0.025" (0.6 MM) TO 0.037" (0.9 MM) ABOVE BACKGROUND.

20. DOTS BASE DIAMETER TO BE 0.059" (1.5 MM) TO 0.063" (1.6 MM).

MOUNTED SIGNAGE:

A. DOOR MOUNTED SIGNAGE:

1. (UNISEX) 12" DIAMETER CIRCLE 1/4" THICK WITH 1/4" THICK TRIANGLE SUPERIMPOSED WITHIN CIRCLE.

2. THE CHARACTERS AND BACKGROUND OF THE SIGN IS EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH AND THE COLOR AND THE CONTRAST OF THE SIGN DISTINCTLY CONTRASTS WITH THE COLOR AND CONTRAST OF THE DOOR.

3. SIGNS ARE CENTERED ON THE DOOR 60" FROM THE FLOOR.

B. WALL MOUNTED SIGNS:

1. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY IS INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. THE BORDER DIMENSION SHALL BE A MINIMUM OF 6" IN HEIGHT. NOTE: IF NO WALL SPACE IS AVAILABLE, SIGN IS TO BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON RIGHT.

2. VERBAL DESCRIPTION AS TO REST ROOM USAGE (I.E. MEN'S REST ROOM) IS TO BE PLACED DIRECTLY BELOW THE SYMBOL OF ACCESSIBILITY.

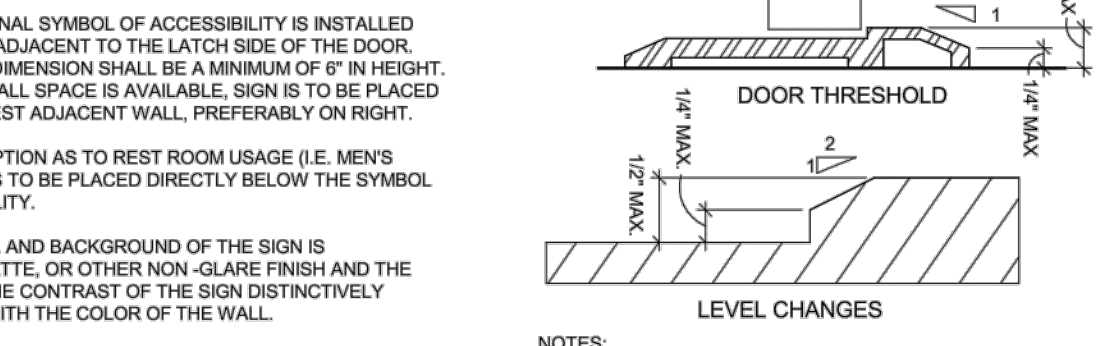
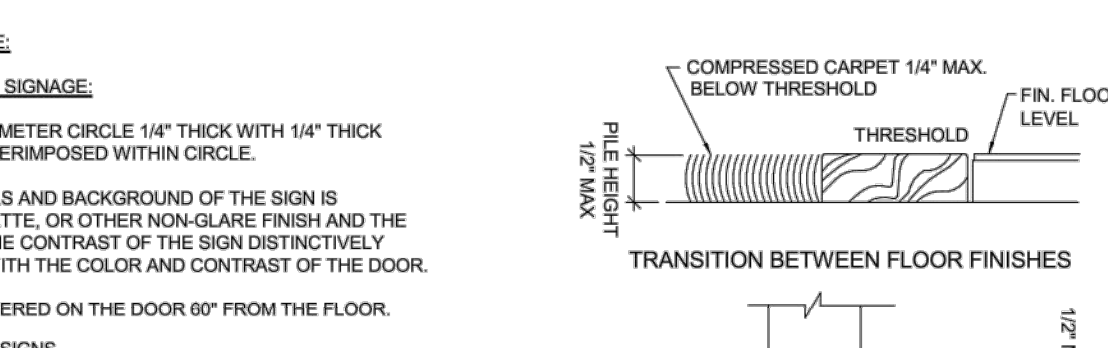
3. THE CHARACTER AND BACKGROUND OF THE SIGN IS EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH AND THE COLOR AND THE CONTRAST OF THE SIGN DISTINCTLY CONTRASTS WITH THE COLOR OF THE WALL.

NOTE: THE REQUIRED COLOR OF THE SYMBOL OF ACCESSIBILITY CONSISTS OF A WHITE FIGURE ON A BLUE BACKGROUND.

4. SIGNS ARE CENTERED ON THE WALL 60" FROM THE FLOOR.

5. LETTERS AND NUMERALS ARE RAISED 1/32"; SANS-SERIF UPPERCASE CHARACTERS AND ARE ACCOMPANIED BY GRADE 2 BRAILLE. CHARACTERS ARE MINIMUM 5/8" HIGH AND A MAXIMUM OF 2" HIGH.

6. MOUNTING LOCATION ALLOWS A PERSON TO APPROACH WITHIN 3" OF THE SIGN WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.

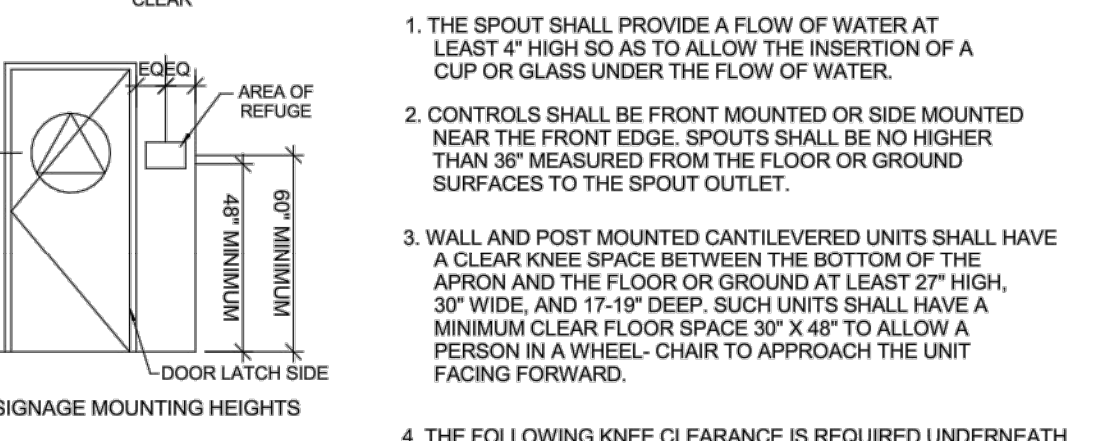


NOTES:

- 1/2" MAXIMUM TOTAL HEIGHT WITH 1/4" MAXIMUM VERTICAL CHANGE AT EDGE.
- 1/2" SLOPED BEVEL REQUIRED IF LEVEL CHANGE IS OVER 1/4" VERTICAL.
- LEVEL CHANGES OF MORE THAN 1/2" MUST BE RAMPED AND COMPLY WITH RAMP REQUIREMENTS.

DRINKING FOUNTAIN NOTES FOR LOW DRINKING FOUNTAIN:

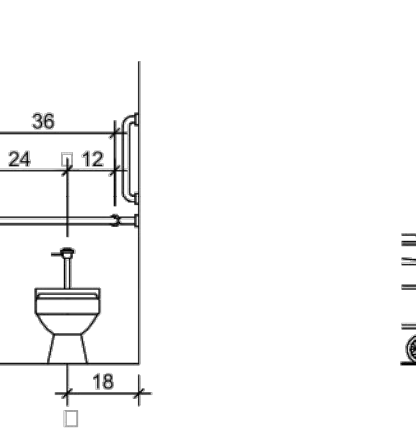
1. THE SPOUT SHALL PROVIDE A FLOW OF WATER AT LEAST 4" HIGH SO AS TO ALLOW THE INSERTION OF A CUP OR GLASS UNDER THE FLOW OF WATER.
2. CONTROLS SHALL BE FRONT MOUNTED OR SIDE MOUNTED NEAR THE FRONT EDGE. SPOUTS SHALL BE NO HIGHER THAN 38" MEASURED FROM THE FLOOR OR GROUND SURFACES TO THE SPOUT OUTLET.
3. WALL AND POST MOUNTED CANTILEVERED UNITS SHALL HAVE A CLEAR KNEE SPACE BETWEEN THE BOTTOM OF THE APRON AND THE FLOOR OR GROUND AT LEAST 27" HIGH, 30" WIDE, AND 17-1/2" DEEP. SUCH UNITS SHALL HAVE A MINIMUM CLEAR FLOOR SPACE 30" X 48" TO ALLOW A PERSON IN A WHEEL-CHAIR TO APPROACH THE UNIT FACING FORWARD.
4. THE FOLLOWING KNEE CLEARANCE IS REQUIRED UNDERNEATH THE FOUNTAIN: 27" MIN. FROM THE FLOOR TO THE UNDERSIDE OF THE FOUNTAIN WHICH EXTENDS 8" MIN. MEASURED FROM THE FRONT EDGE UNDERNEATH THE FOUNTAIN BACK TOWARDS THE WALL. IF A MIN. 9" OF TOE CLEARANCE IS PROVIDED, A MAX. OF 6" OF THE 48" OF CLEAR FLOOR SPACE REQUIRED AT THE FIXTURE MAY EXTEND INTO THE TOE SPACE.



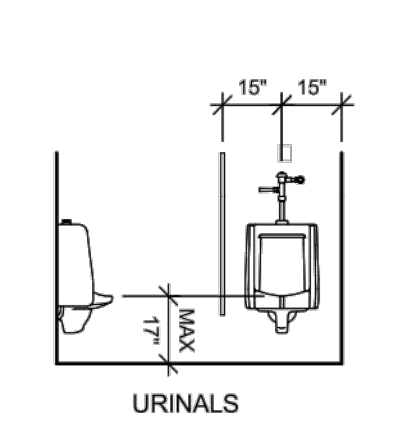
WATER CLOSET CLEARANCE



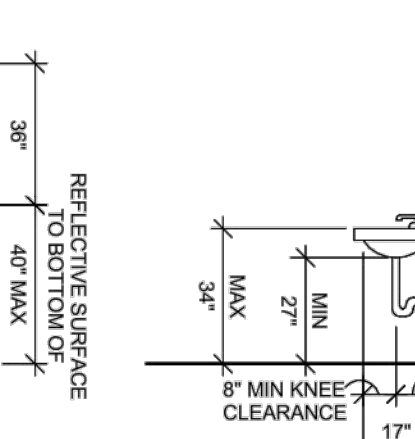
WATER CLOSET STALL CLEARANCE



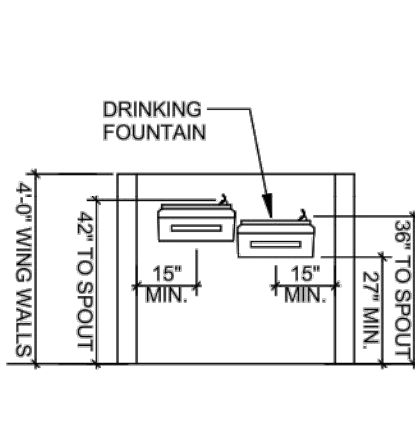
URINAL CLEARANCE



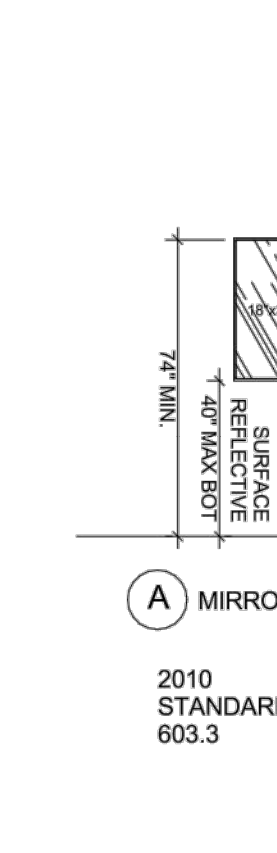
LAVATORY CLEARANCE



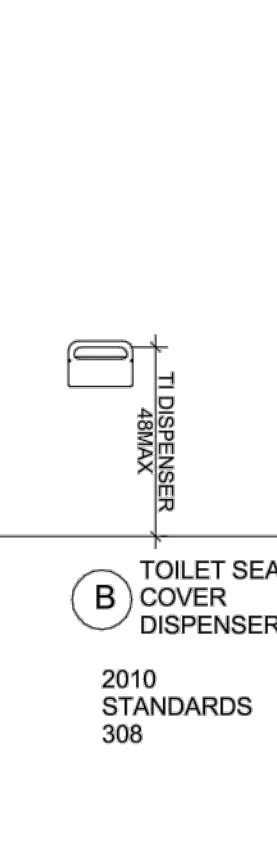
DRINKING FOUNTAIN PLAN



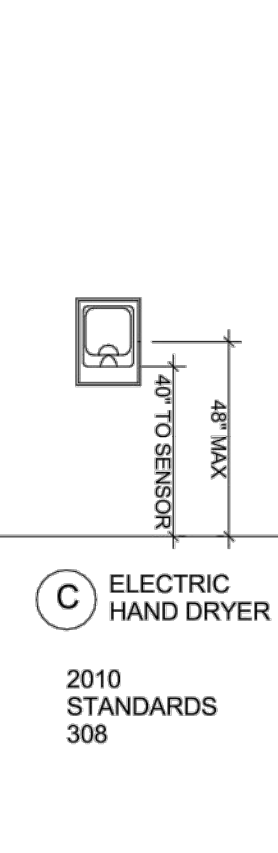
WATER CLOSET



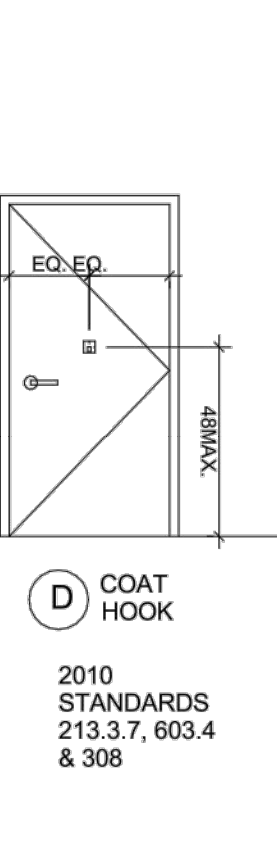
WATER CLOSET STALL TOE CLEARANCE



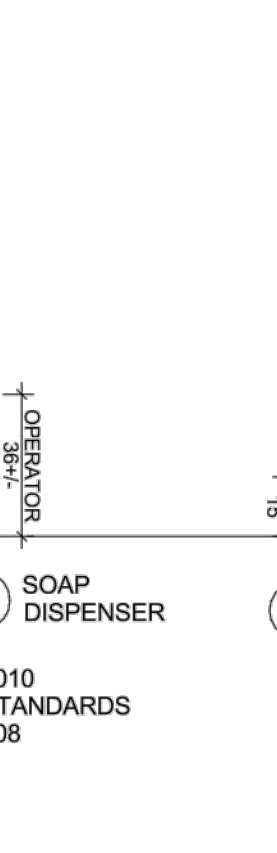
URINALS



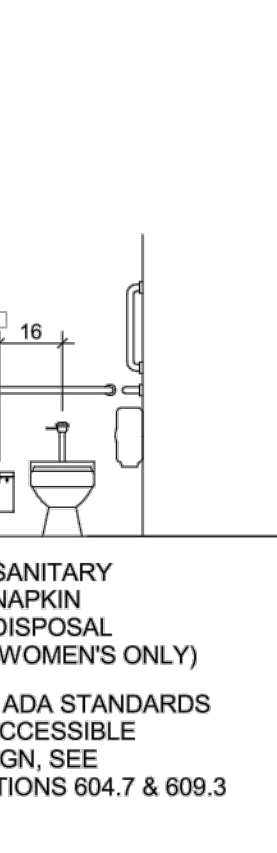
LAVATORIES



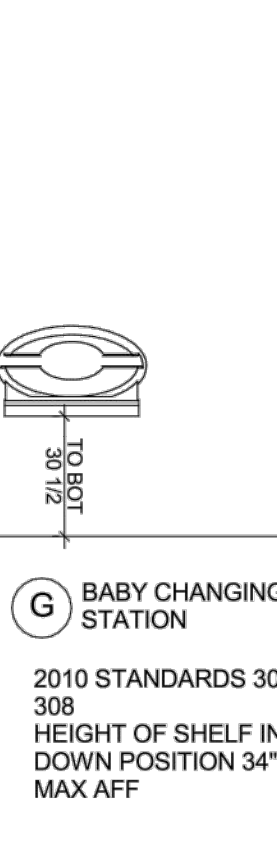
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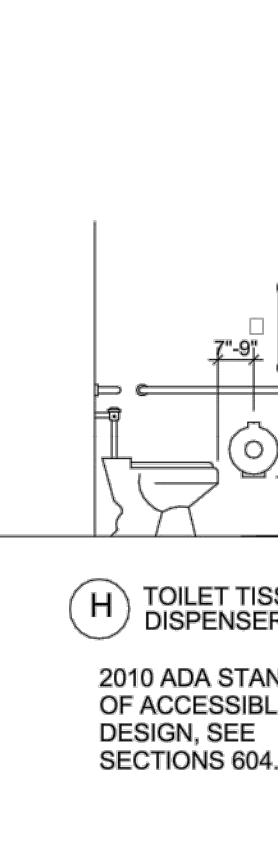
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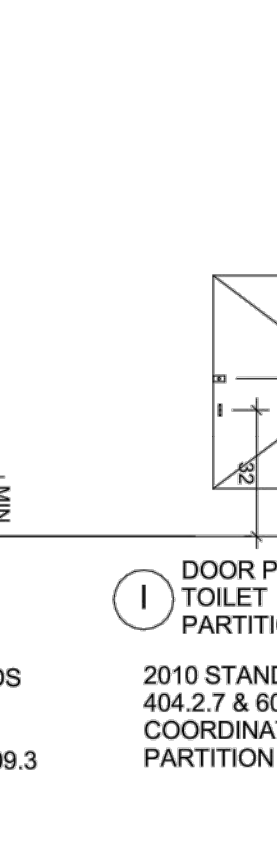
LAVATORIES



LAVATORIES

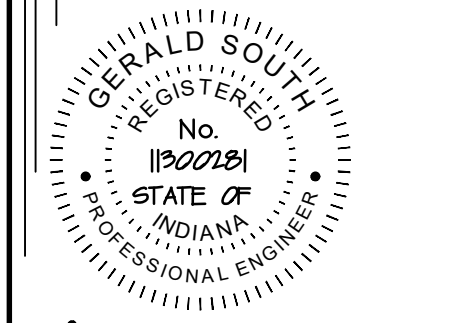


DRINKING FOUNTAIN ELEVATION



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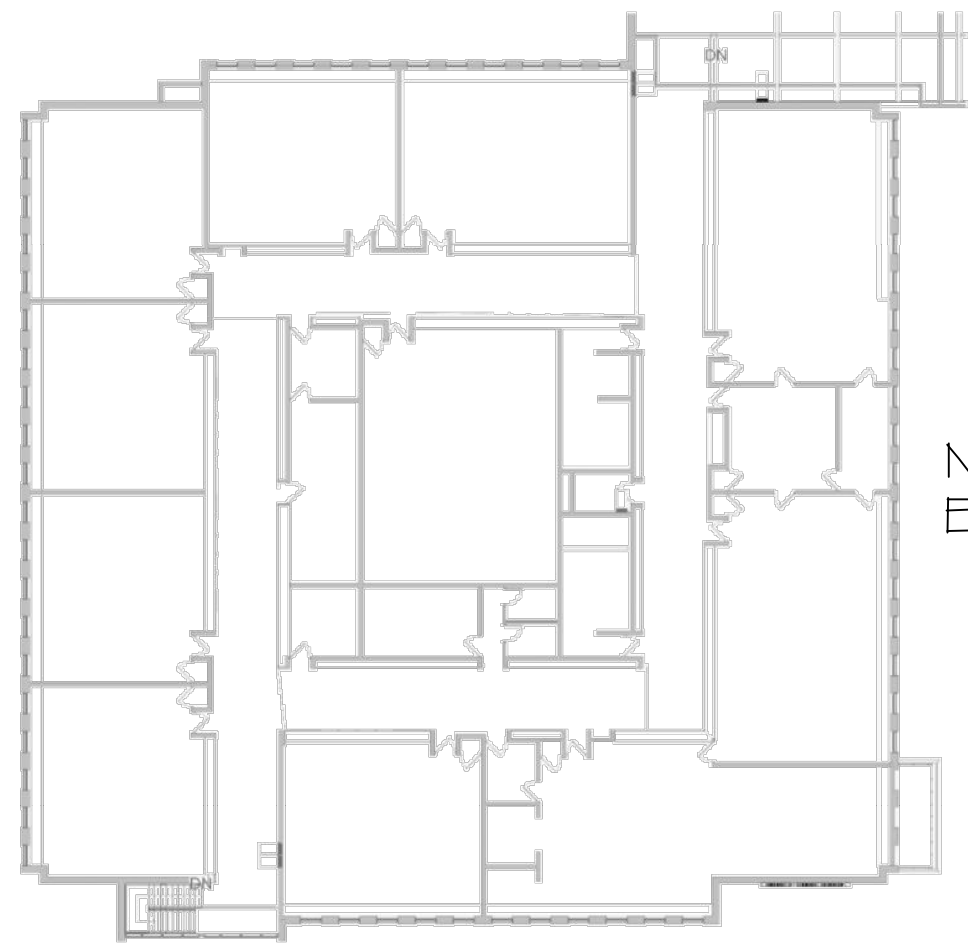
WINCHESTER
INDIANA

Project No. 2275-1
Coordinator. INDERSTRADT

Date. 07/16/2022

Revision No. Date

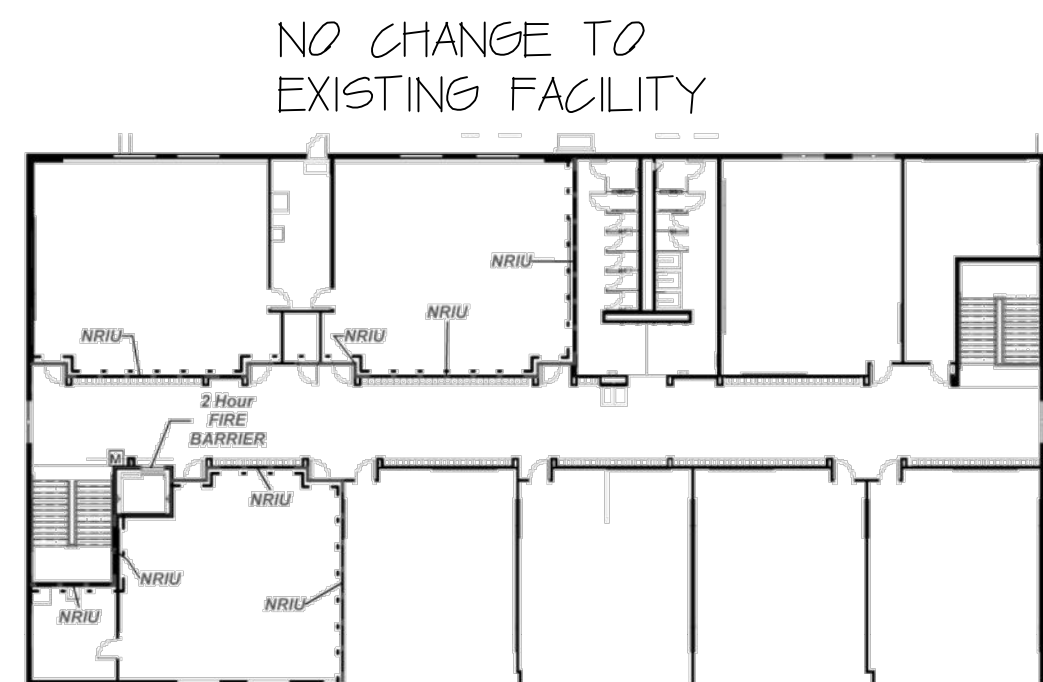
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A01
of



NO CHANGE TO EXISTING FACILITY

EXISTING BUILDING SECOND FLOOR LIFE SAFETY PLAN

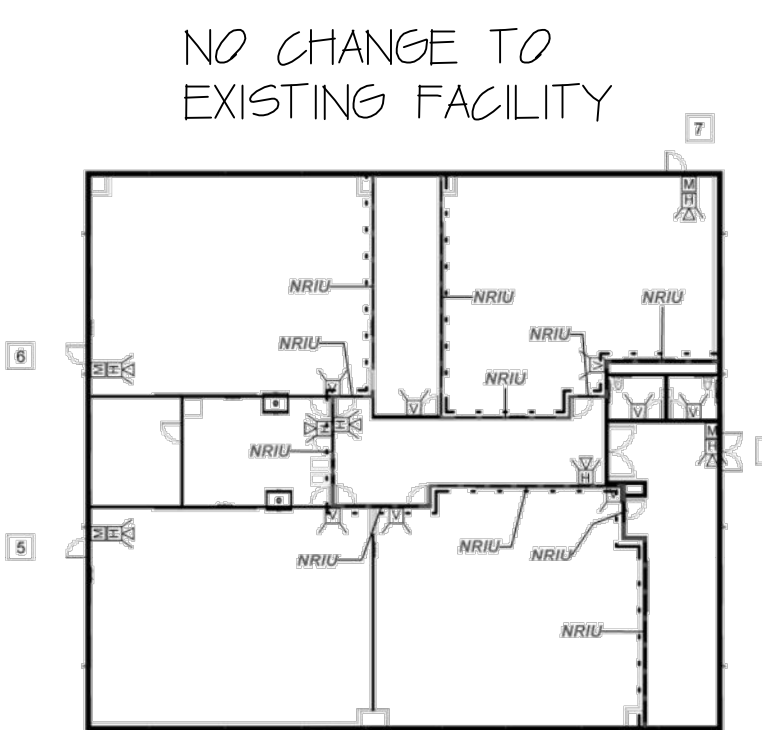
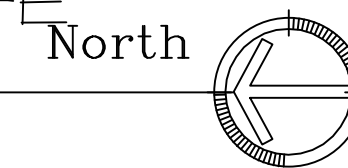
SCALE: 1" = 30'-0"



NO CHANGE TO EXISTING FACILITY

EXISTING BUILDING SECOND FLOOR LIFE SAFETY PLAN

SCALE: 1" = 30'-0"



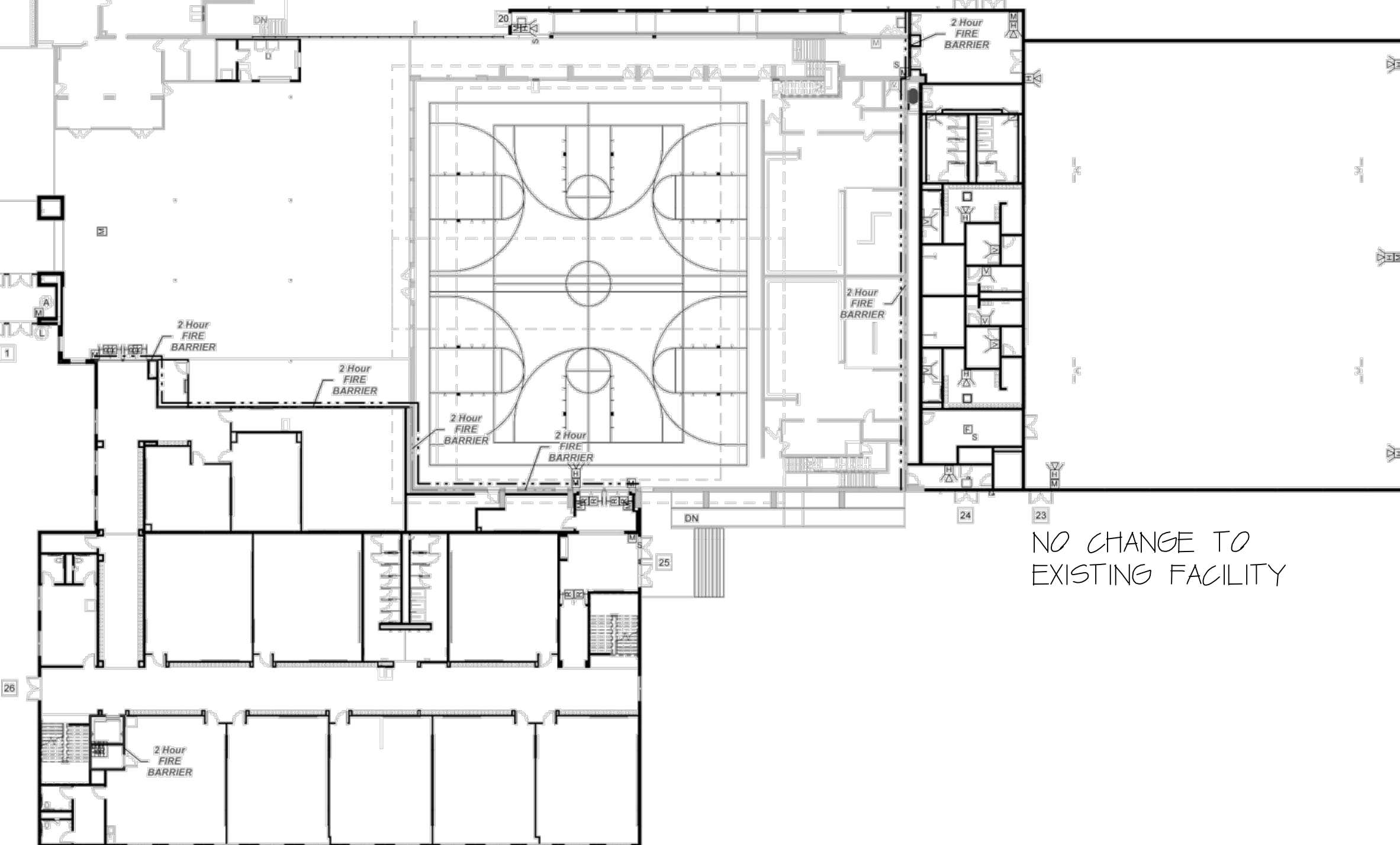
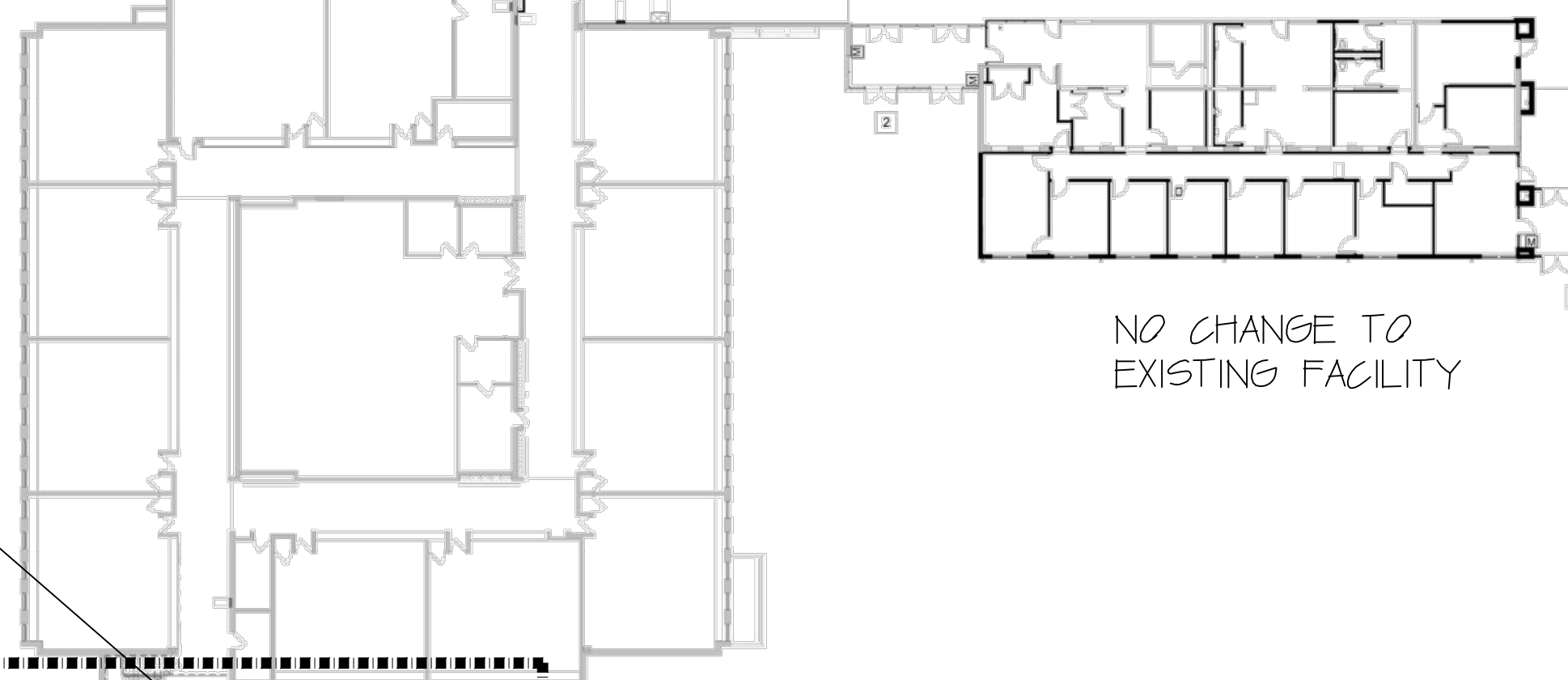
NO CHANGE TO EXISTING FACILITY

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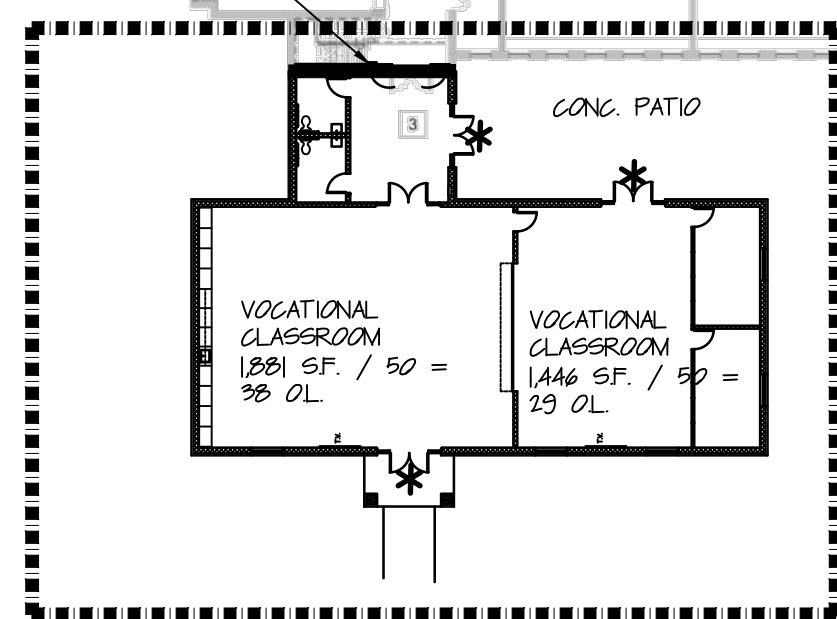


NO CHANGE TO EXISTING FACILITY



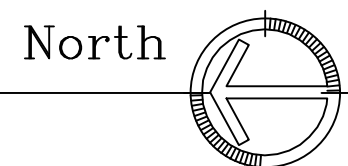
NO CHANGE TO EXISTING FACILITY

PROPOSED 2 HOUR FIRE BARRIER WALL PER VARIANCE #23-10-09



LIFE SAFETY PLAN NEW ADDITION

SCALE: 1" = 30'-0"



NEW ADDITION

CODE NOTES:

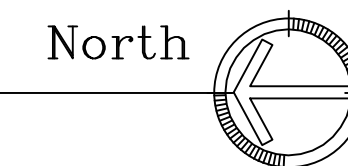
176,536 SF. EXISTING FACILITY HIGH / MIDDLE SCHOOL
42,693 SF. NEW ADDITION SEPARATED BY 2 HR. FIRE BARRIER
129,229 TOTAL AREA

NEW ADDITION TYPE 2B CONSTRUCTION OCCUPANCY E
NON-SPRINKLED

* DENOTES NEW EMERGENCY EXIT.

EXISTING BUILDING FIRST FLOOR LIFE SAFETY PLAN

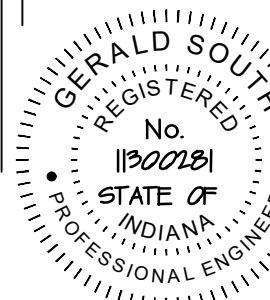
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RANDOLPH CENTRAL SCHOOL CORPORATION

WINCHESTER INDIANA

Project No. 2275-1
Coordinator INDERSTRADT

Date 12/08/2015

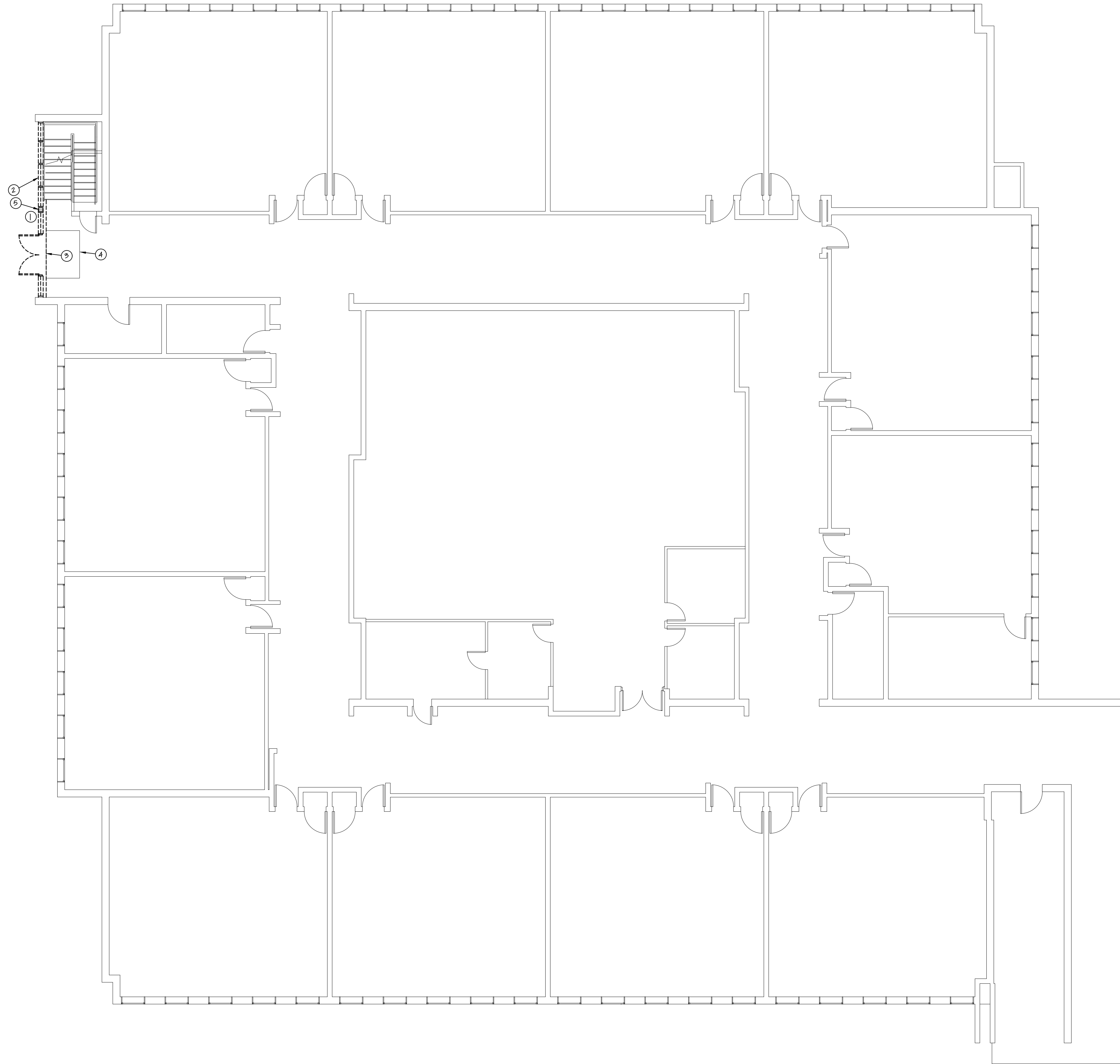
Revision No. Date

DEMOLITION NOTES

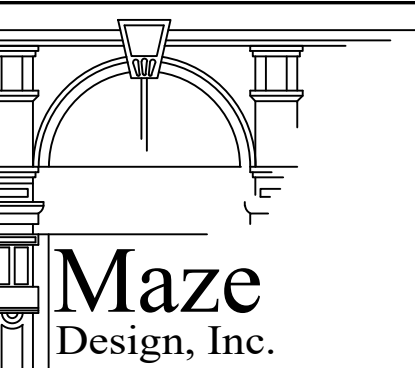
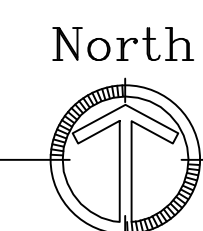
1. REMOVE EXISTING ALUMINUM STOREFRONT IN ITS ENTIRETY.
2. REMOVE EXISTING MASONRY WALL BELOW WINDOWS.
3. SAW CUT EXISTING TERRAZZO FLOOR AND BASE APPROXIMATELY 5" IN FROM WALL AT JOINT LINE. PATCH AS REQUIRED TO ALLOW FOR A SMOOTH TRANSITION FOR NEW FLOOR AND WALL BASE FINISH.
4. EXISTING RECESSED FLOOR MATT TO REMAIN. PROTECT AS REQUIRED.
5. EXISTING STEEL COLUMN TO REMAIN. PROTECT DURING DEMOLITION.

GENERAL DEMOLITION NOTES

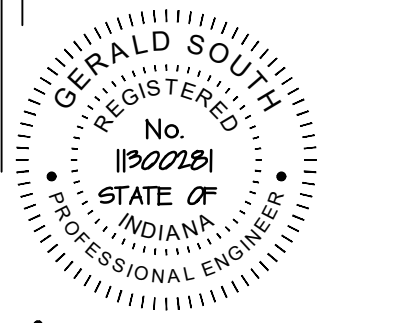
- A. COORDINATE DEMOLITION WITH ALL NEW CONSTRUCTION AND MEP DESIGN DRAWINGS AND DETAILS.
- B. WHERE EXISTING MASONRY WALLS TO BE REMOVED EXTEND BELOW THE FLOOR SLAB, SUCH WALLS SHALL BE REMOVED TO ONE COURSE BELOW THE TOP OF THE EXISTING FLOOR SLAB. PATCH AND REPAIR SLAB TO PROVIDE A SMOOTH AND EVEN TRANSITION BETWEEN EXISTING AND NEW WORK.
- C. EXISTING FLOORS REQUIRING DEMOLITION TO RECEIVE NEW FINISH SHALL BE PATCHED BACK AND LEVELLED AS REQUIRED TO PROVIDE A SMOOTH AND LEVEL SURFACE FOR NEW FLOORING. COORDINATE AND MAINTAIN A SMOOTH AND LEVEL SURFACE BETWEEN ADJACENT DISSIMILAR MATERIALS RESULTING FROM DEMOLITION. WHERE THE JUNCTION OF DISSIMILAR MATERIALS IS UNEVEN, REMOVE THE MATERIALS COMPLETELY TO THE TOP OF EXISTING FLOOR SLAB AND PATCH BACK LEVEL TO RECEIVE NEW FINISH.
- D. PROTECT EXISTING CONSTRUCTION AT ALL TIMES. PROVIDE TEMPORARY BARRIERS FOR DUST AND WEATHER AS REQUIRED.



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



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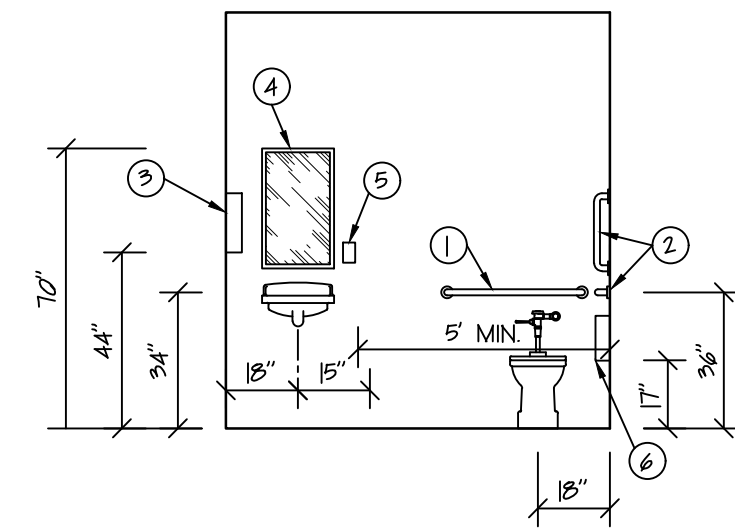
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Project No.... 2275-1
Coordinator.... INDERSTADT

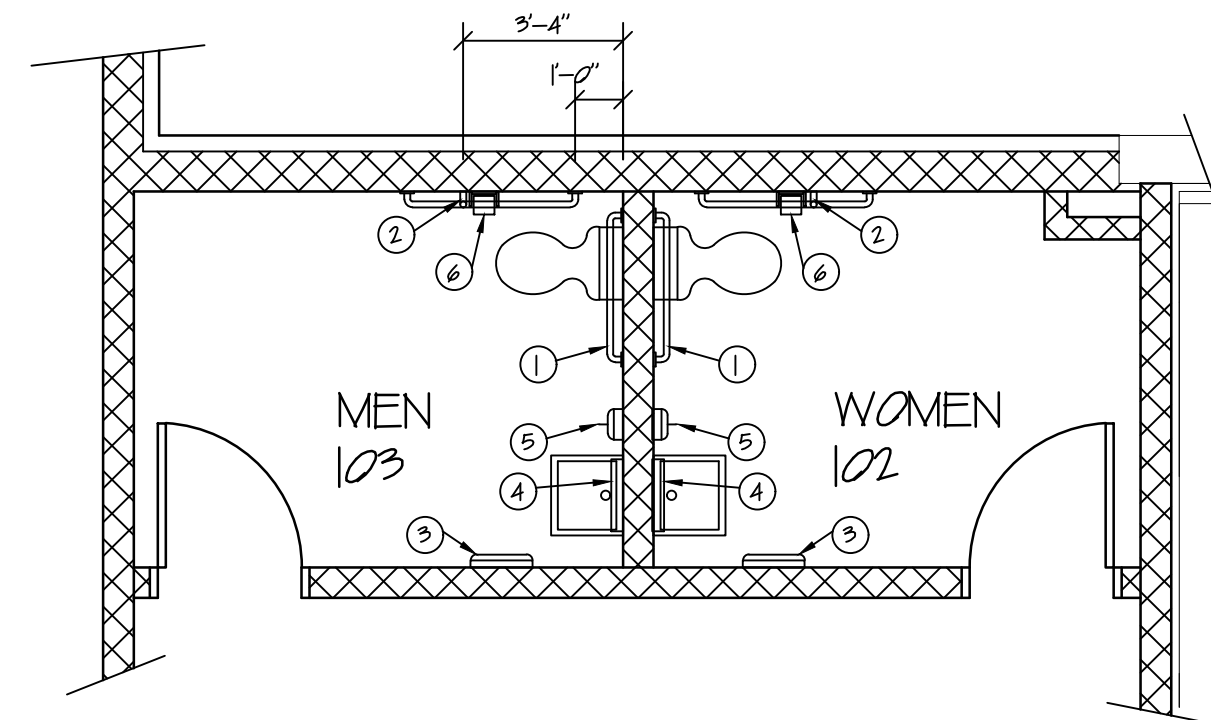
Date..... 12/08/2015

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R.R. ELEVATION

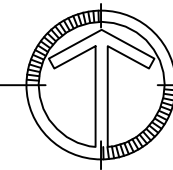
NO SCALE



RESTROOM PLAN

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

North



○ RESTROOM KEYNOTES

1. 3/8" GRAB BAR BOBRICK OR EQUAL
2. 42" HORIZ. GRAB BAR & 18" VERT. GRAB BAR BOBRICK OR EQUAL
3. PAPER TOWEL DISPENSER SUPPLIED BY OWNER INSTALLED BY G.C.
4. MIRROR - 18"x20" BOBRICK OR EQUAL
5. SOAP DISPENSER SUPPLIED BY OWNER INSTALLED BY G.C.
6. TOILET TISSUE DISPENSER SUPPLIED BY OWNER INSTALLED BY G.C.

RESTROOM GENERAL NOTES

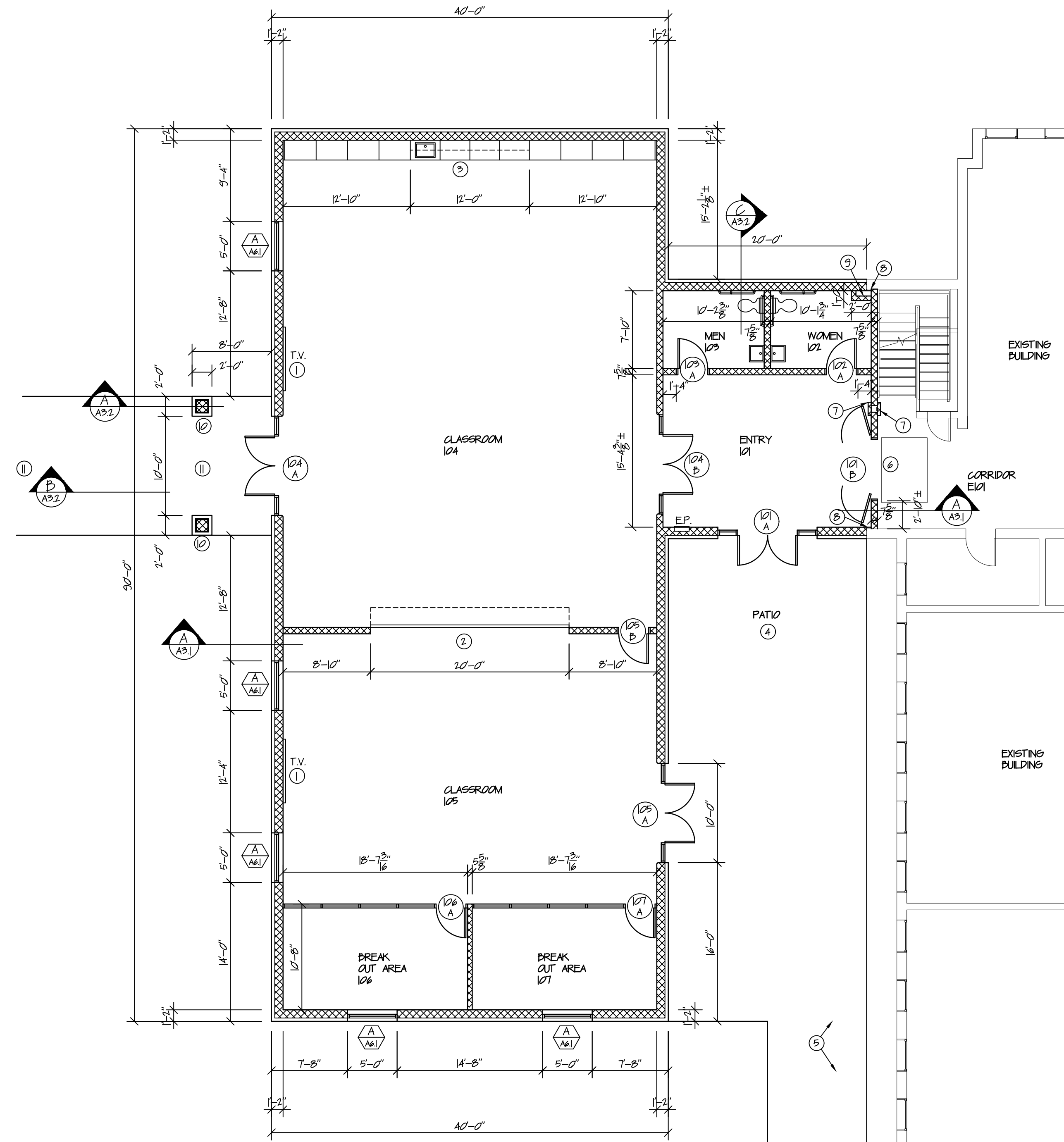
ALL FIXTURES AND ACCESSORY MOUNTING HEIGHTS SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.

GENERAL NOTES

- ███ DENOTES NEW CMU MASONRY CONSTRUCTION SEE STRUCTURAL PLANS FOR REINFORCEMENT.
- NEW BRICK CONSTRUCTION TOOTH-IN NEW BRICK CONSTRUCTION TO MATCH ADJACENT BRICK COURSE AND BOND PATTERN.
- ▲ MASONRY CONTROL JOINT SEE ELEVATIONS FOR LOCATIONS.
- CONFIRM ALL PLUMBING FIXTURE MOUNTING HEIGHTS WITH ADA STANDARDS.
- SEE DRAWING A61 FOR WINDOW ELEVATIONS AND DETAILS.
- SEE DRAWING A11 FOR TOILET ROOM PLANS AND ELEVATIONS.
- COORDINATE ALL WORK WITH OTHER TRADES. NOTIFY ENGINEER OF ANY CONFLICTS.
- PROVIDE MASONRY BULL NOSE BLOCK AT EXPOSED OUTSIDE CORNERS OF INTERIOR WALLS.

○ KEY NOTES

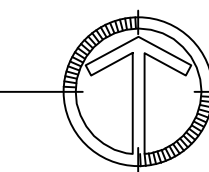
1. OWNER PROVIDED CLEARGLASS SCREEN. G.V. TO PROVIDING WOOD BLOCKING MOUNT 2" AFF TO BOTTOM OF SCREEN. SCREEN APPROXIMATE 17" W X46"
2. 7'-10" X 20" OH. DOOR SEE SPECIFICATIONS. PROVIDE WOOD TRIM AT JAMBS, AND HEAD AS REQUIRED. (PAINT) ALL EXPOSED WOOD.
3. LAMINATED CASEWORK SEE DETAIL A51. PROVIDE SHOP DRAWINGS.
4. NEW 5" CONCRETE PATIO SEE SITE PLAN.
5. 5" CONCRETE WALK SEE SITE PLAN FOR.
6. DOORS TO BE CENTERED ON EXISTING RECESSED FLOOR MAT.
7. PROVIDE 4" MASONRY TO ENCLOSE EXISTING STEEL COLUMN. PROVIDE MASONRY TIES AS REQUIRED.
8. NOTCH MASONRY AS REQUIRED AT EXISTING WALL.
9. 5/8" CMU CHASE FOR ROOF DRAIN. VERIFY EXACT SIZE / LOCATION. EXTEND WALL TO 4" ABOVE CEILING.
10. 1/2" MASONRY COLUMN WITH BRICK VENEER SEE STRUCTURAL PLANS FOR REINFORCEMENT DETAILS.
11. 5" THK CONCRETE WALK SEE SITE PLAN FOR LOCATION. MATCH EXISTING WALKS.



FLOOR PLAN

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

North



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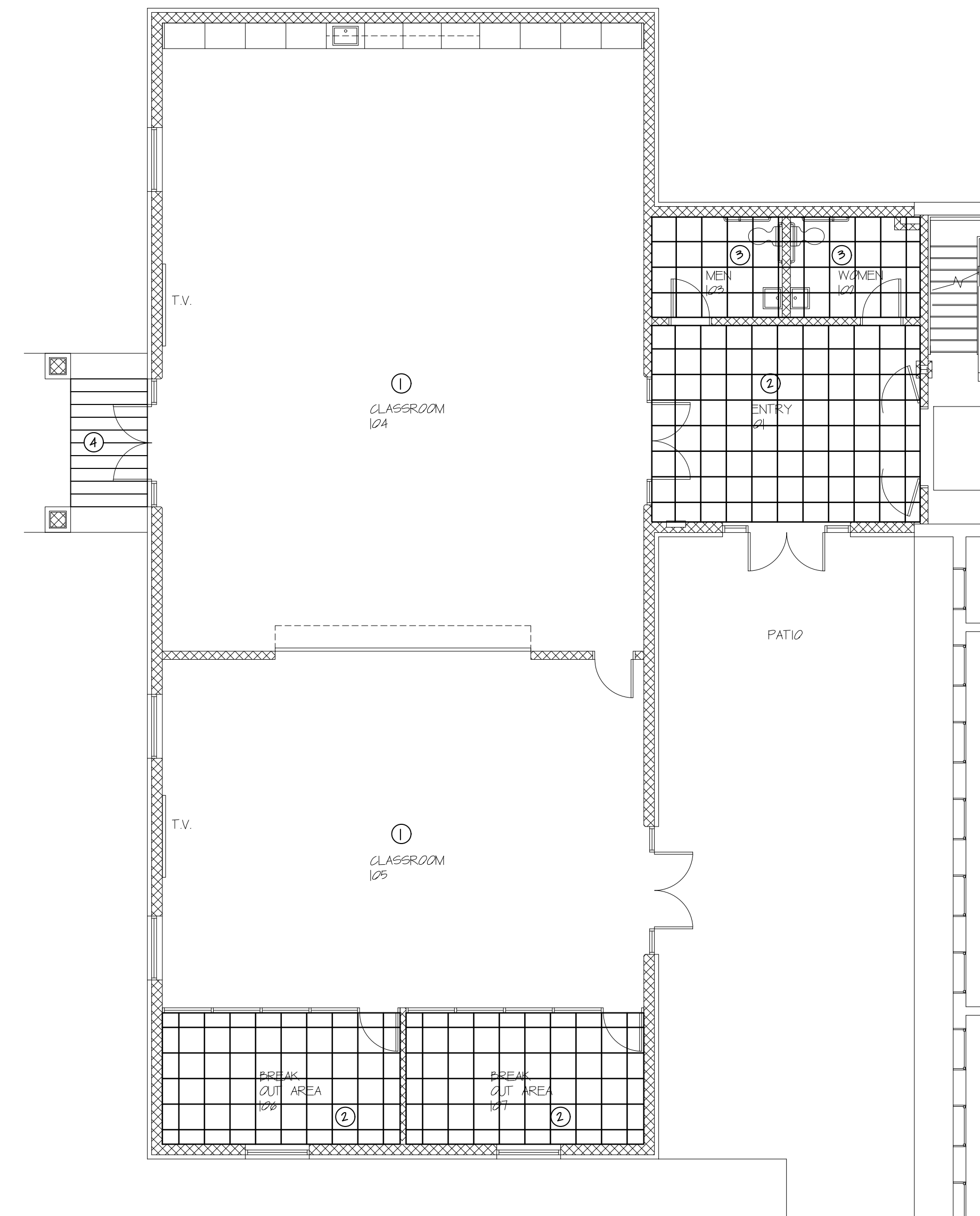
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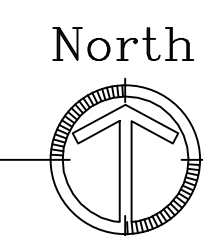
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○ CEILING NOTES

1. OPEN TO STRUCTURE ABOVE PAINT EXPOSED STEEL JOIST, ROOM DECK, ELECTRICAL CONDUIT AND DUCTWORK.
 2. 2x2 LAY-IN CEILING SYSTEM AT 9'-0"
 3. 2x2 LAY-IN CEILING SYSTEM AT 8'-0"
 4. VENTED METAL CEILING SOFFIT SYSTEM MATCH MDC1 ROOF COLOR.
- NOTE: COORDINATE LAY-IN CEILING GRID WITH ELECTRICAL LIGHTING PLAN LAY-OUT.



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



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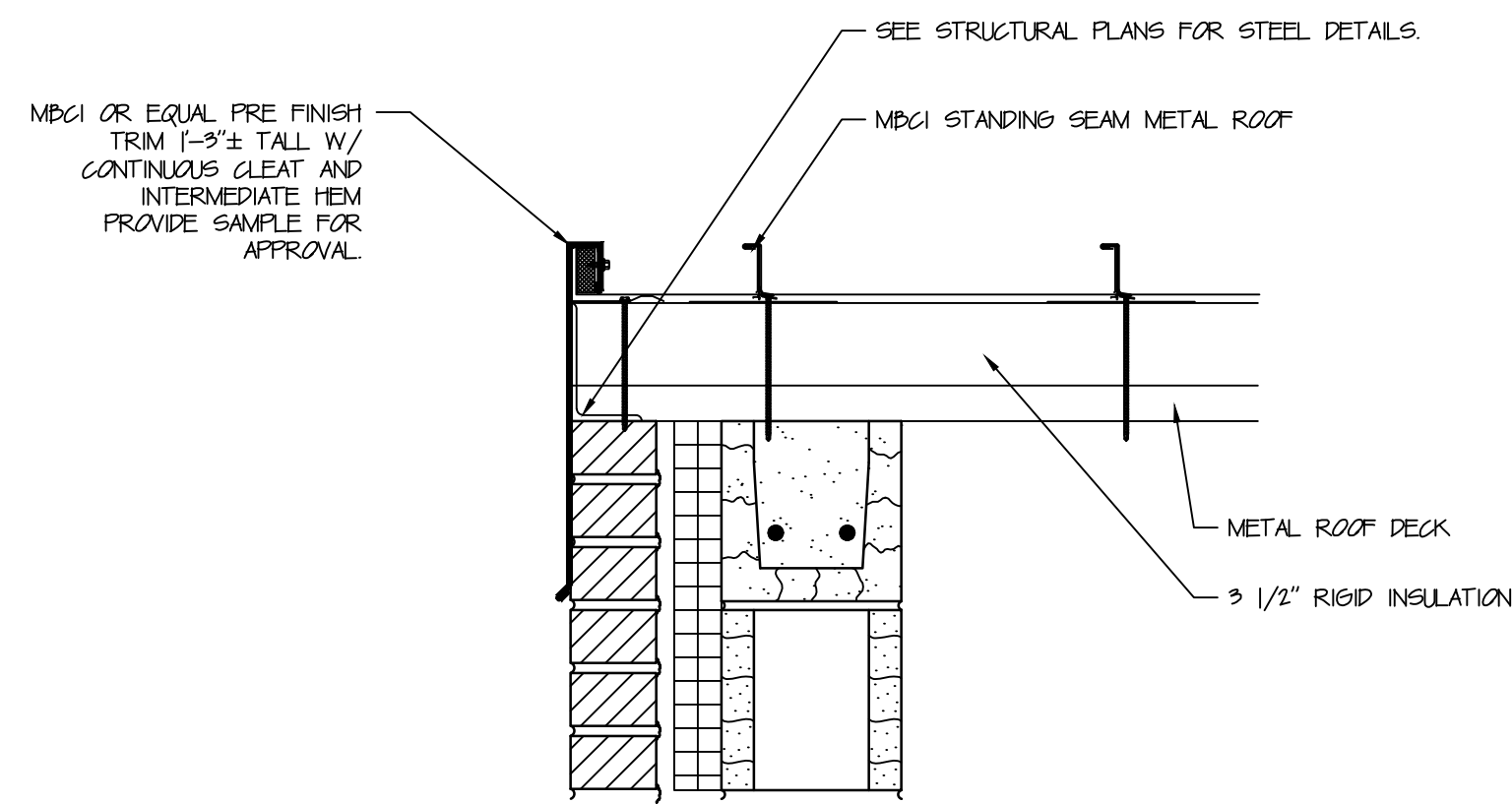
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○ GENERAL NOTES

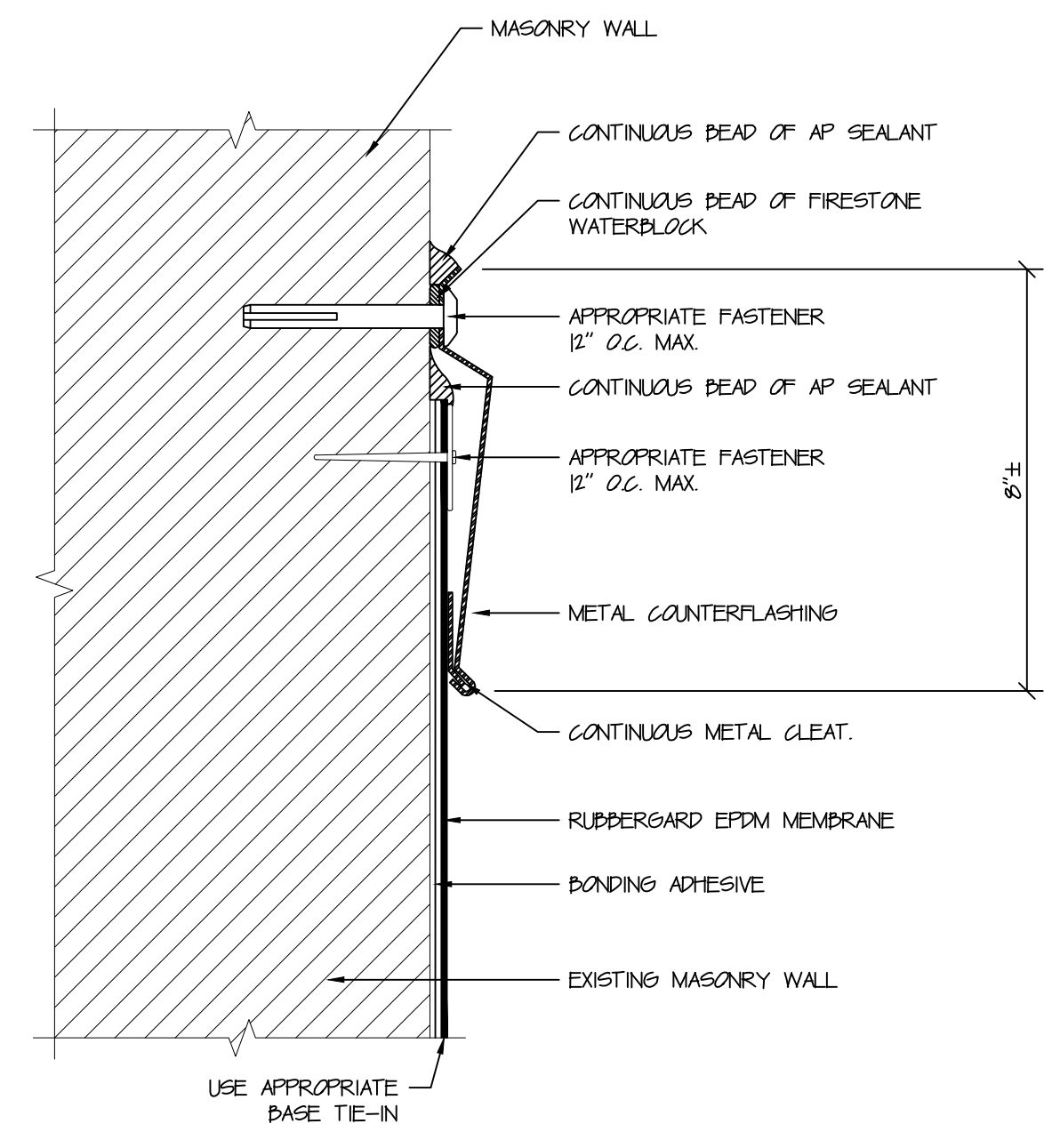
1. FLASHING AND TRIM TO MATCH EXISTING PROVIDE SAMPLE FOR APPROVAL

○ ROOF PLAN NOTES

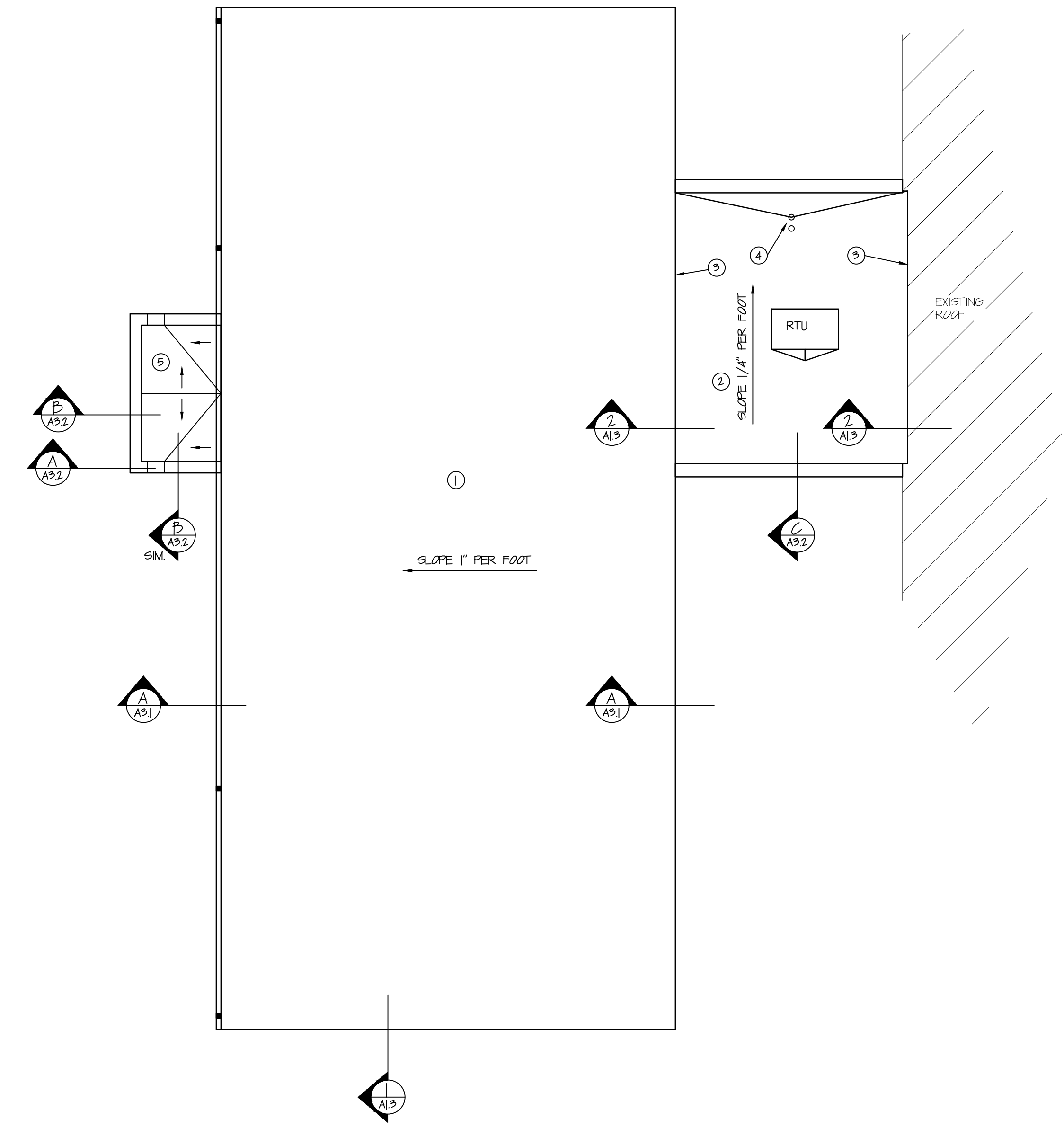
1. STANDING SEAM METAL ROOF OVER 3/4" RIGID INSULATION SEE SPECIFICATIONS
2. RUBBER MEMBRANE ROOF OVER MIN. 3/4" RIGID INSULATION AND TAPERED INSULATION TO ROOF DRAINS SEE SPECIFICATIONS
3. PROVIDE WALL FLASHING SEE DETAIL 2/A13
4. ROOF DRAIN / OVERFLOW DRAIN SEE PLUMBING PLANS
5. RUBBER MEMBRANE ROOF OVER MIN. 1" RIGID INSULATION AND TAPERED INSULATION TO ROOF DRAINS SEE SPECIFICATIONS



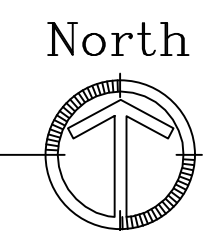
1
A13 NO SCALE:



2
A13 TYP. WALL FLASHING NO SCALE:



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



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BRICK COLOR SELECTION

BRICK COLOR "A" LIGHT
THE BELDEN BRICK COMPANY MODULAR ALASKA VELOUR 22-24

BRICK COLOR "B" DARK
THE DOWERSTON SHALE COMPANY AUTUMN ROSE W/C MODULAR

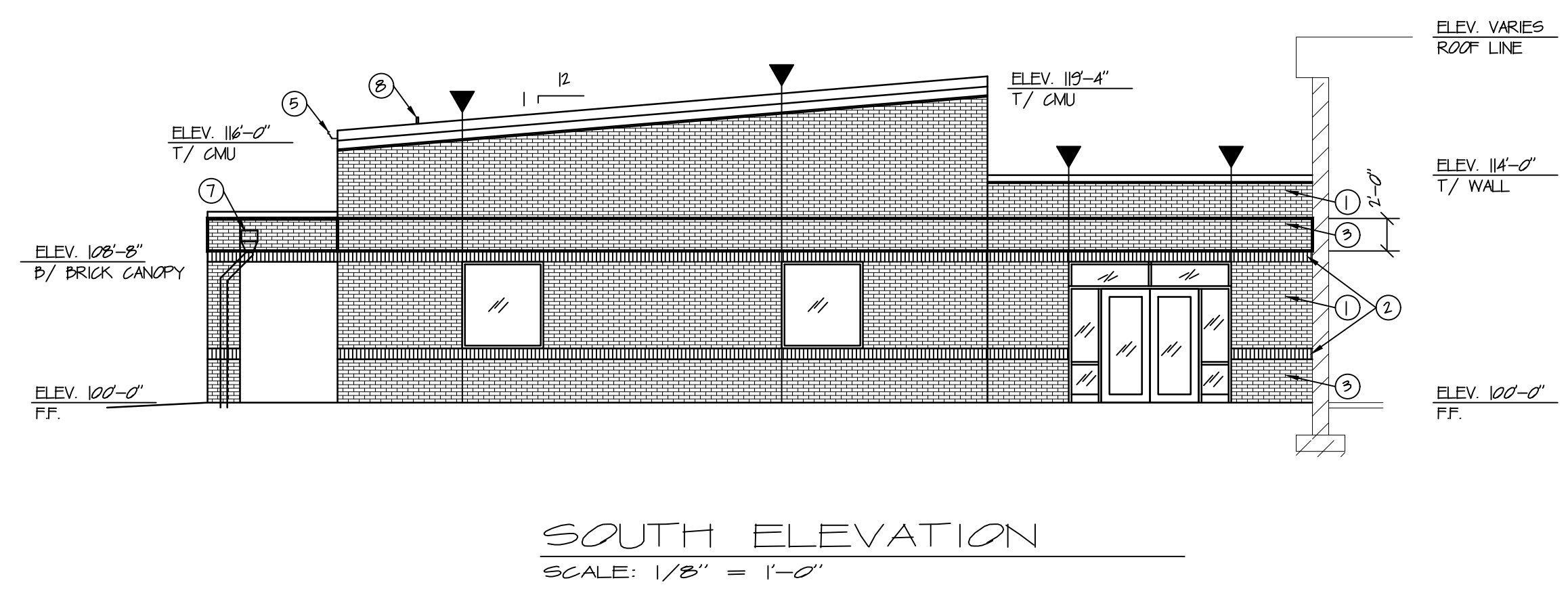
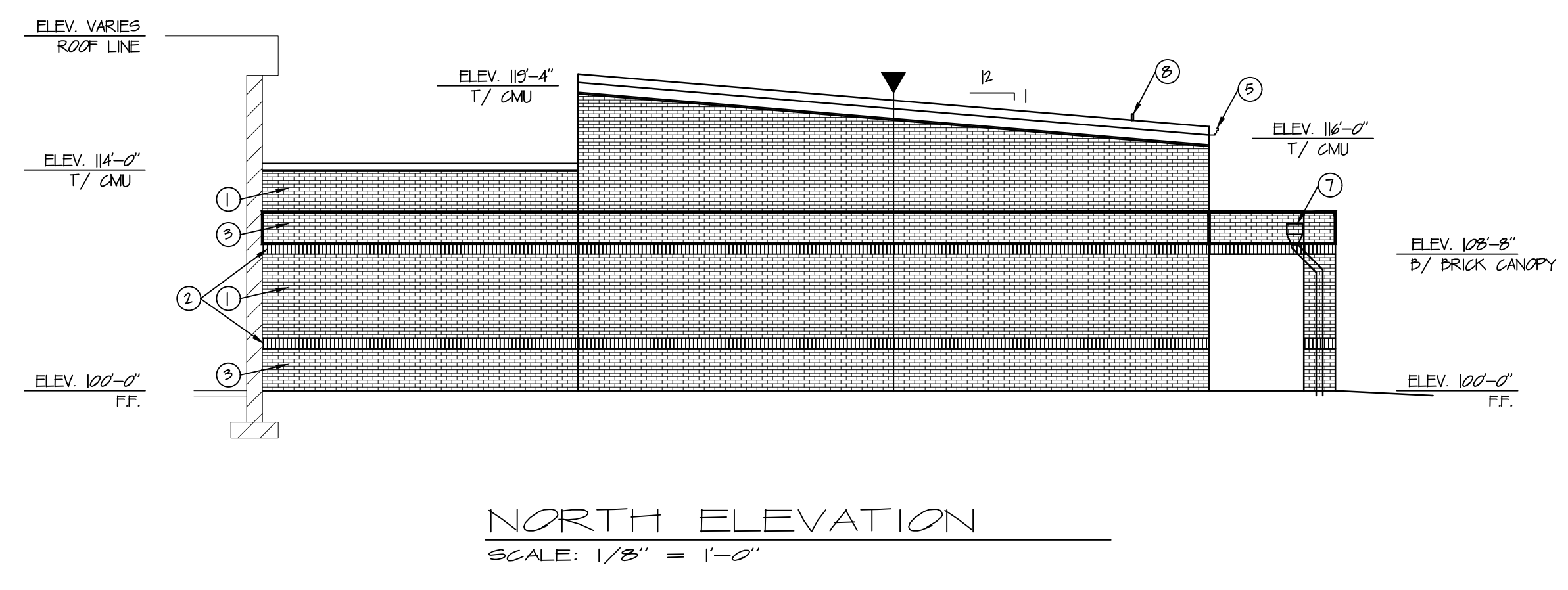
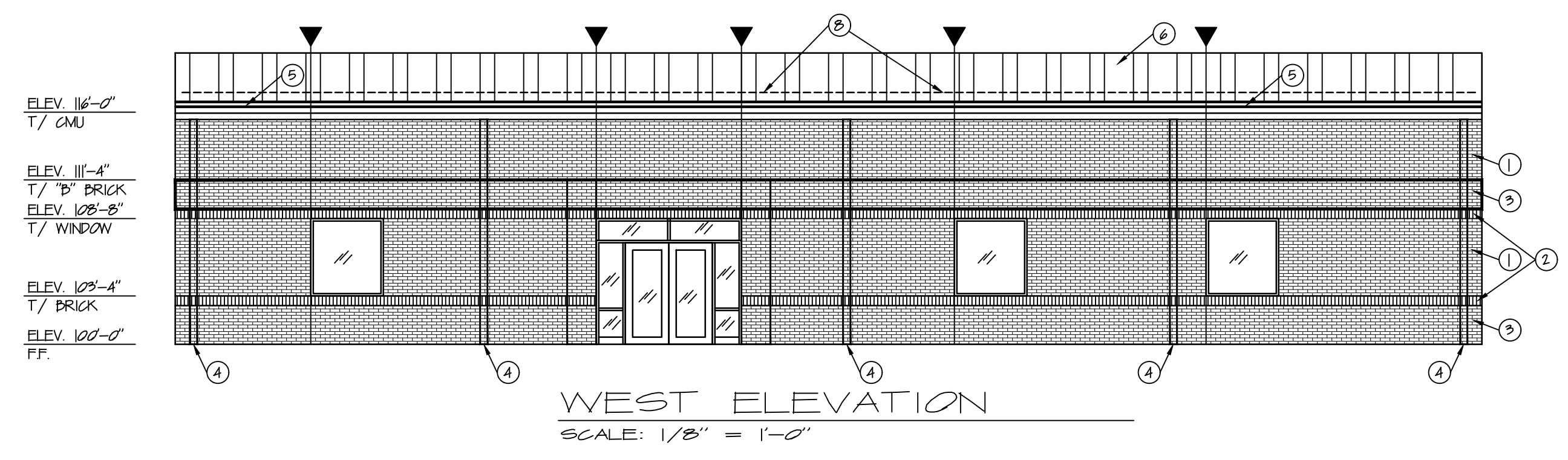
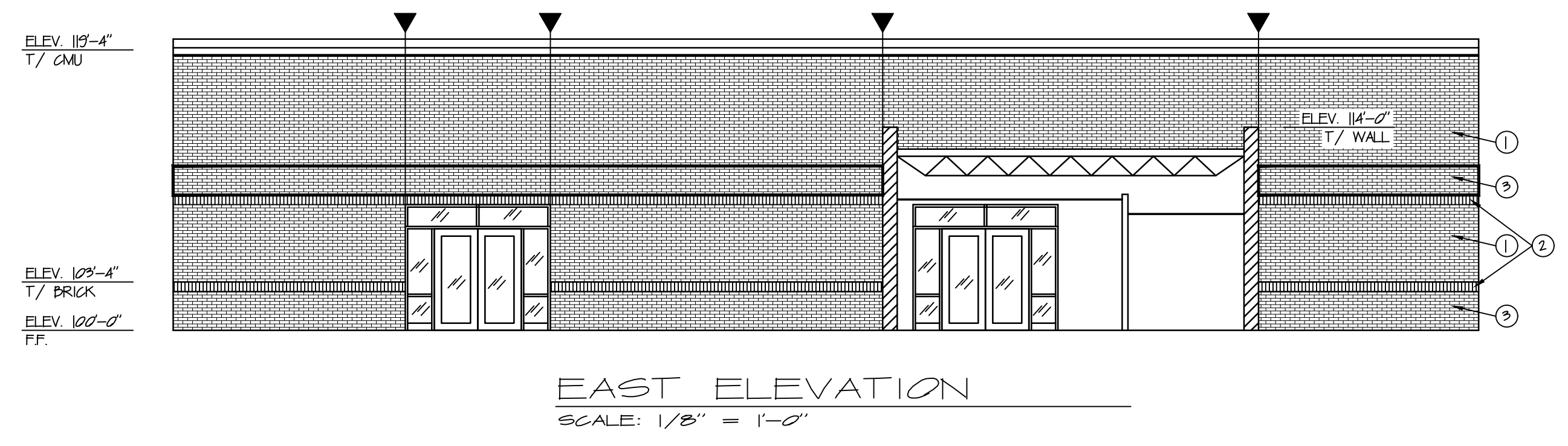
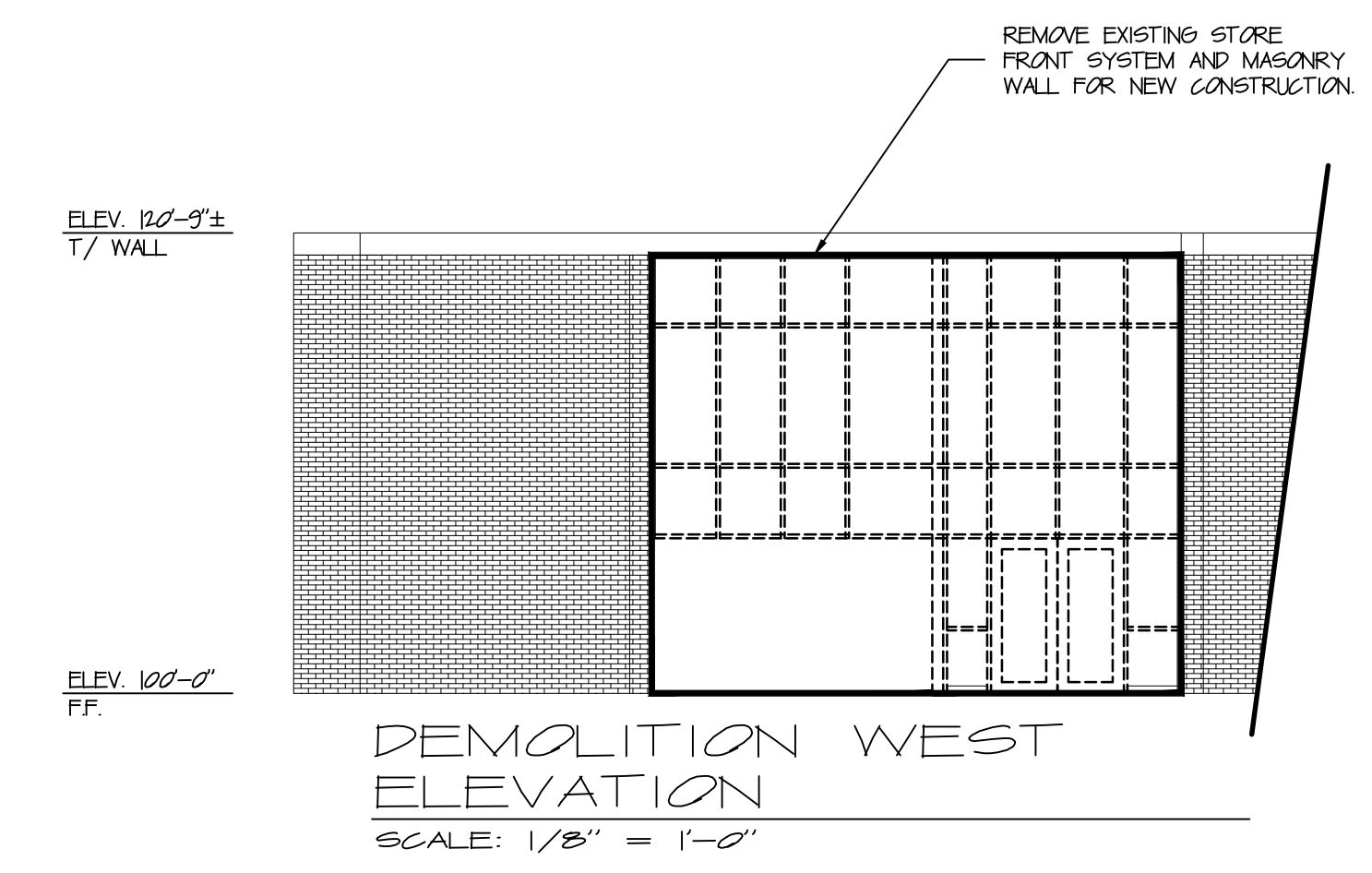
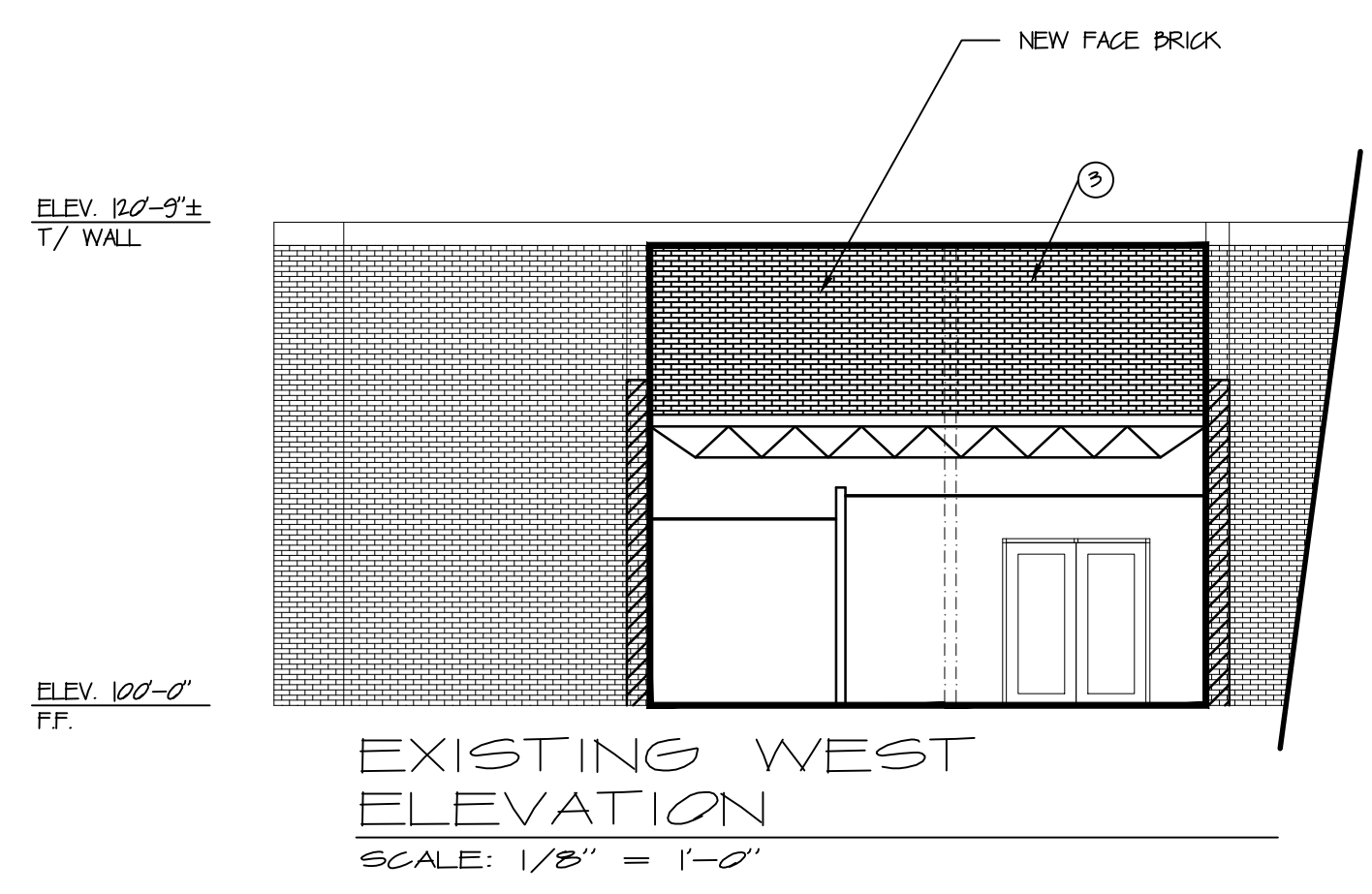
ELEVATION GENERAL NOTES

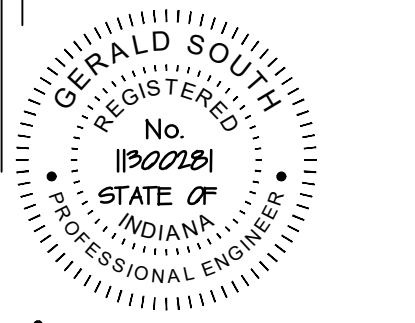
A. PAINT ALL EXPOSED LINTEL STEEL
B. PROVIDE MASONRY FLASHING AT ALL WINDOW AND DOORS AND BOTTOM OF ALL MASONRY WALLS.
C. PROVIDE MASONRY CELL CENTERS 1/4" OC.
D. PROVIDE MASONRY CONTROL JOINTS SEE STRUCTURAL PLANS.

▼ DENOTES MASONRY CONTROL JOINT LOCATION.

○ ELEVATION KEY NOTES

- BRICK COLOR "A" LIGHT
- SOLDER COURSE BAND COLOR "A" LIGHT
- BRICK COLOR "B" DARK
- 3/4" ALUM. DOWNSPOUT MATCH EXISTING CONNECT TO UNDERGROUND STORM WITH OFFSET ADAPTER.
- 5x7" ALUM. GUTTER MATCH EXISTING
- STANDING SEAM 24ga MPCI DATTENLOK HS PANEL W/ STRIATIONS METAL ROOF. COLOR MATCH EXISTING MEDIUM BRONZE SIGNATURE 9027
- ALUM. SCUPPER AND DOWNSPOUT MATCH EXISTING
- SNOW / ICE GUARD ZINC COATED TYPE ATTACHED TO STANDING SEAM. LOCATION AND SPACING TO BE DETERMINED BY METAL ROOF SUPPLIER. COLOR TO MATCH METAL ROOF.



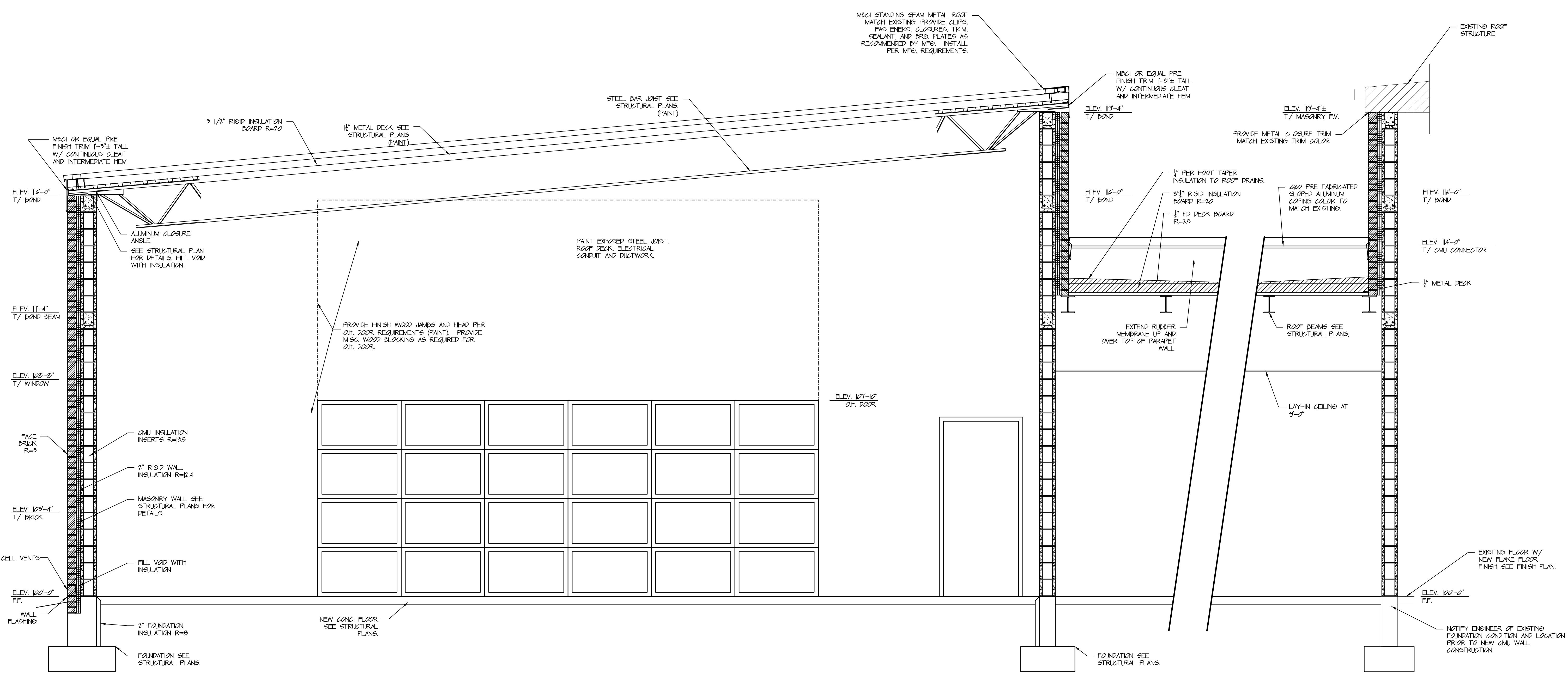


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GENERAL NOTE:

A. PAINT ALL EXPOSED ROOF STRUCTURE INCLUDING METAL DECK, PARAPET, STEEL BEAMS AND ACCESSORIES (WHITE)

B. PAINT ALL EXPOSED HVAC DUCT WORK (WHITE)



A SECTION
A3.1 SCALE: 1/2" = 1'-0"

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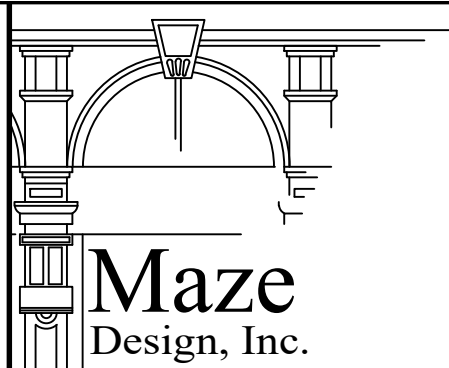
Date. 12/08/2023

Revision No. Date

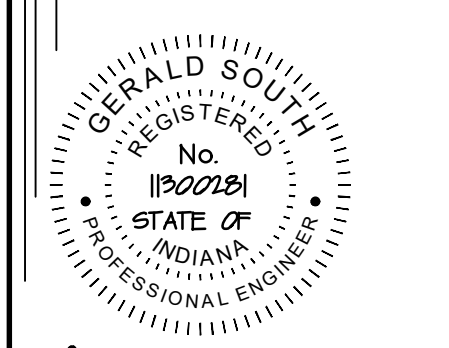
EXISTING FLOOR W/
NEW FLAKE FLOOR
FINISH SEE FINISH PLAN.

ELEV. 100'-0"
FF.

NOTIFY ENGINEER OF EXISTING
FOUNDATION CONDITION AND LOCATION
PRIOR TO NEW CMU WALL
CONSTRUCTION.



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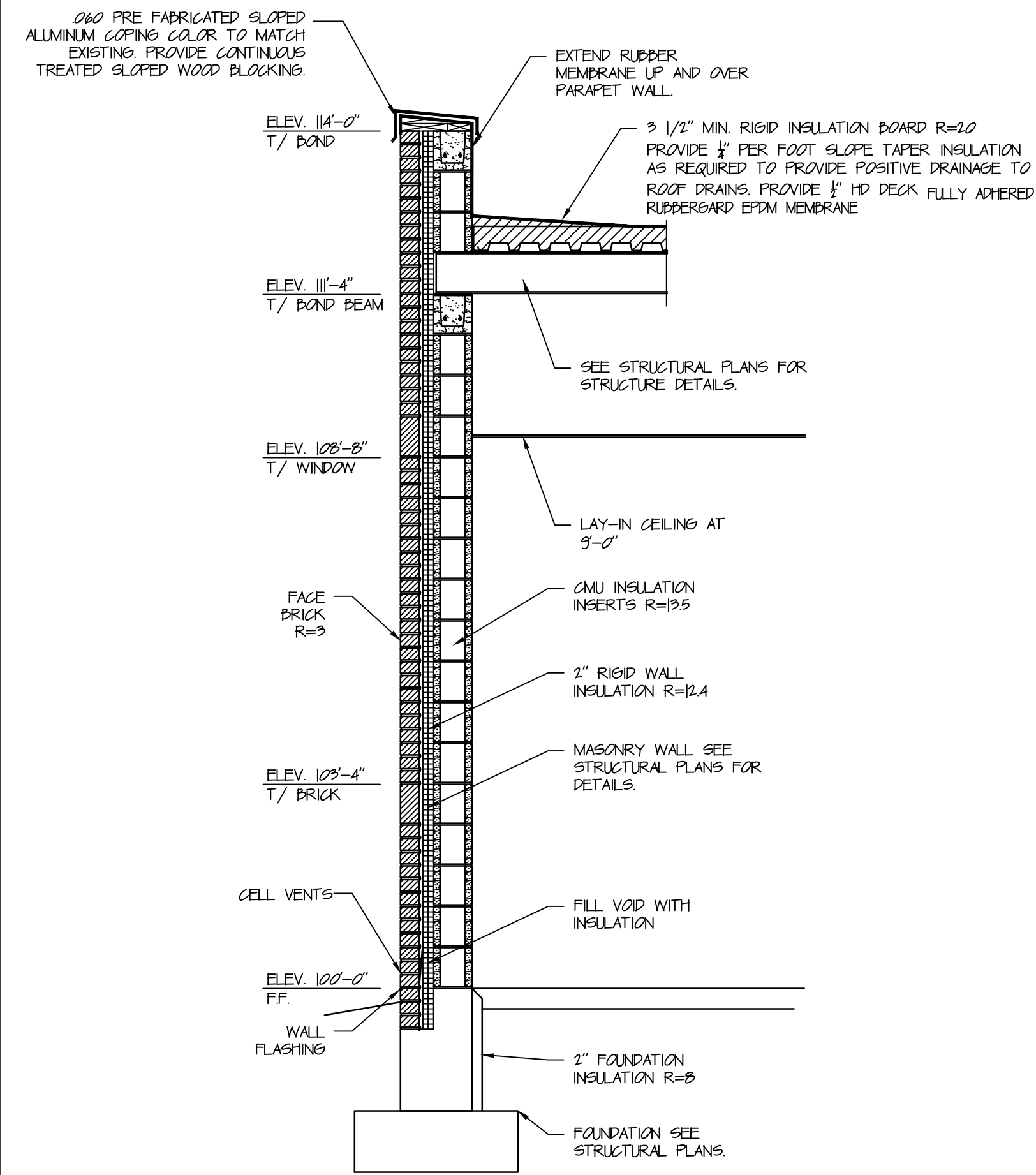
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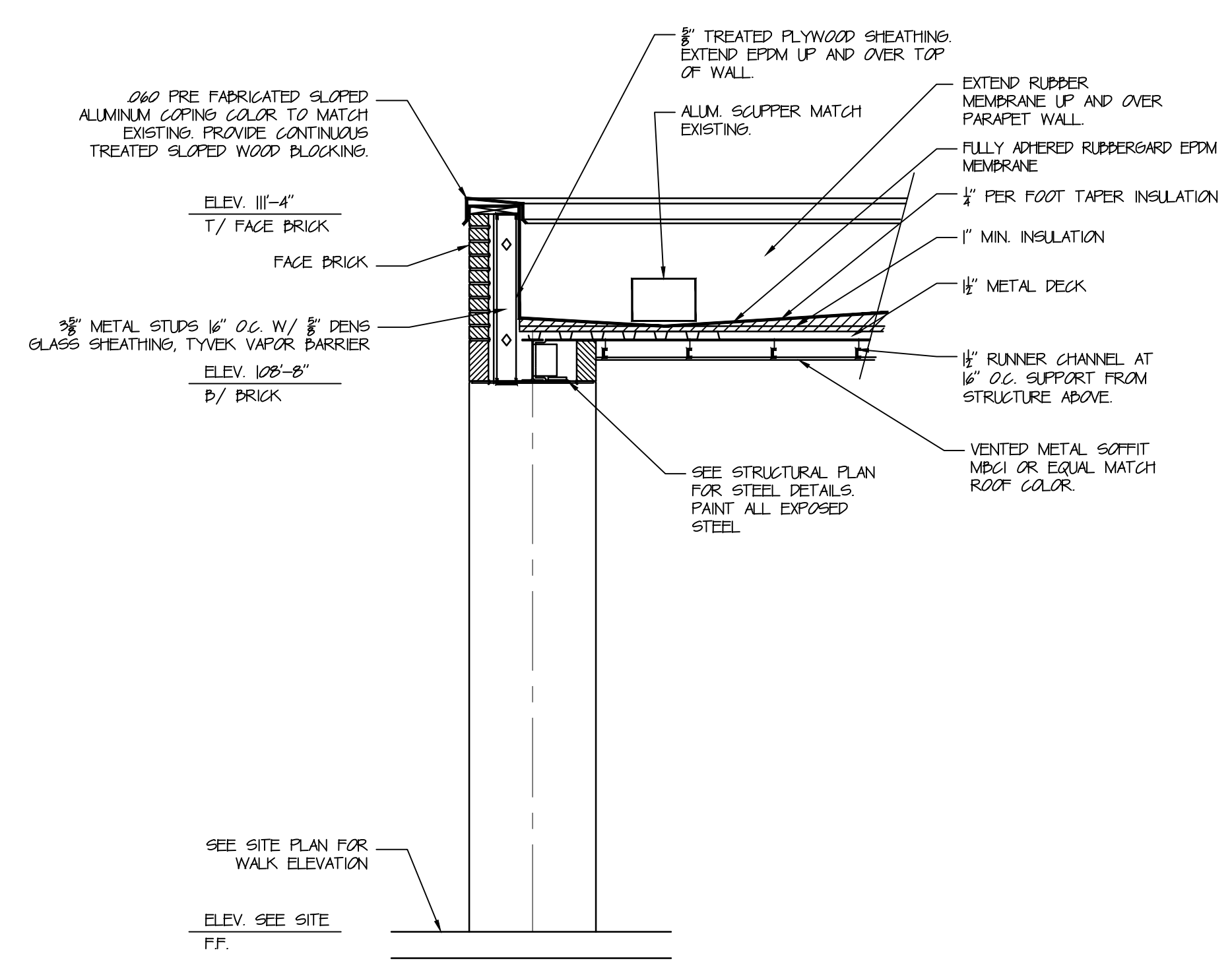
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Date 12/08/2023

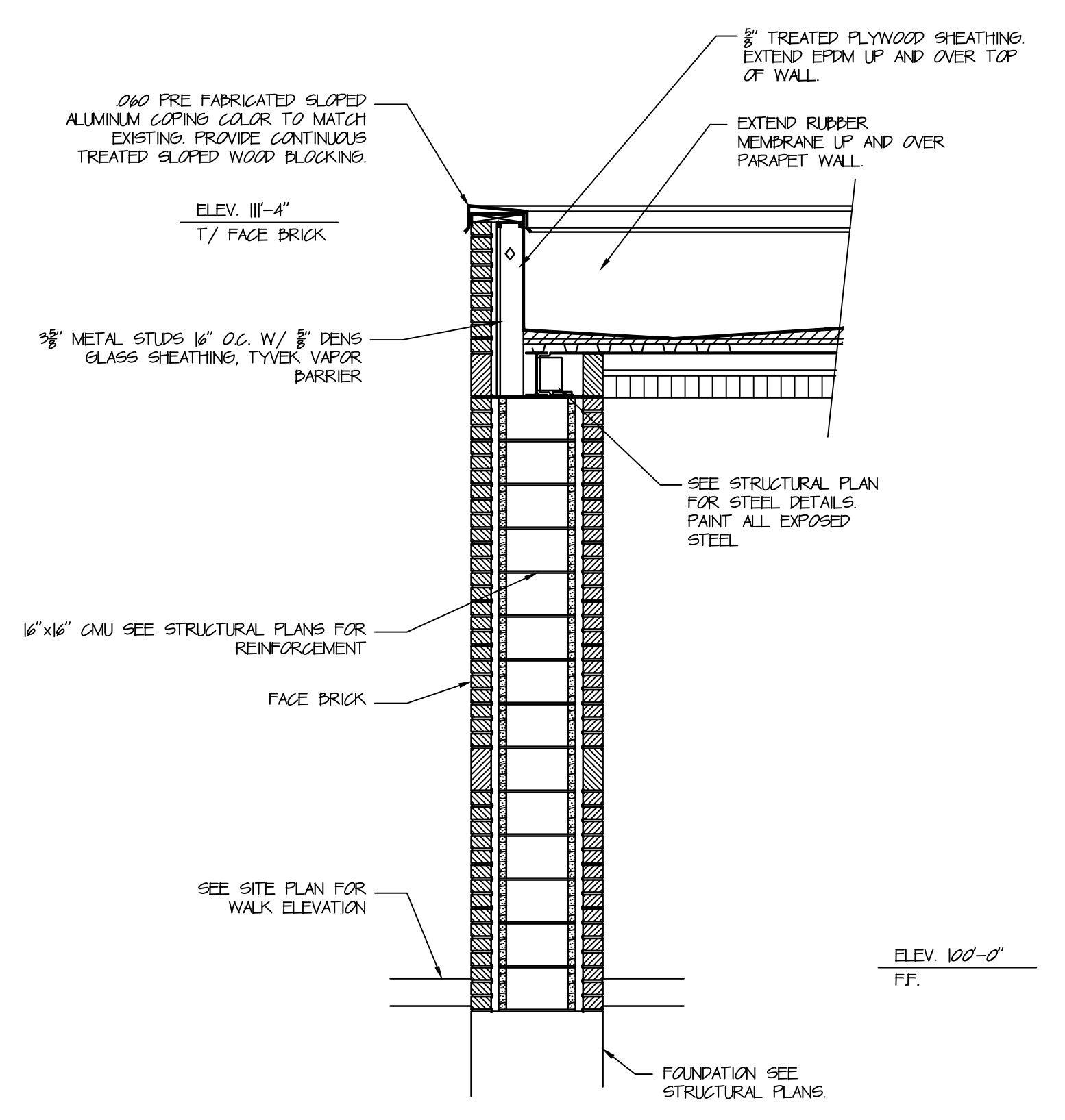
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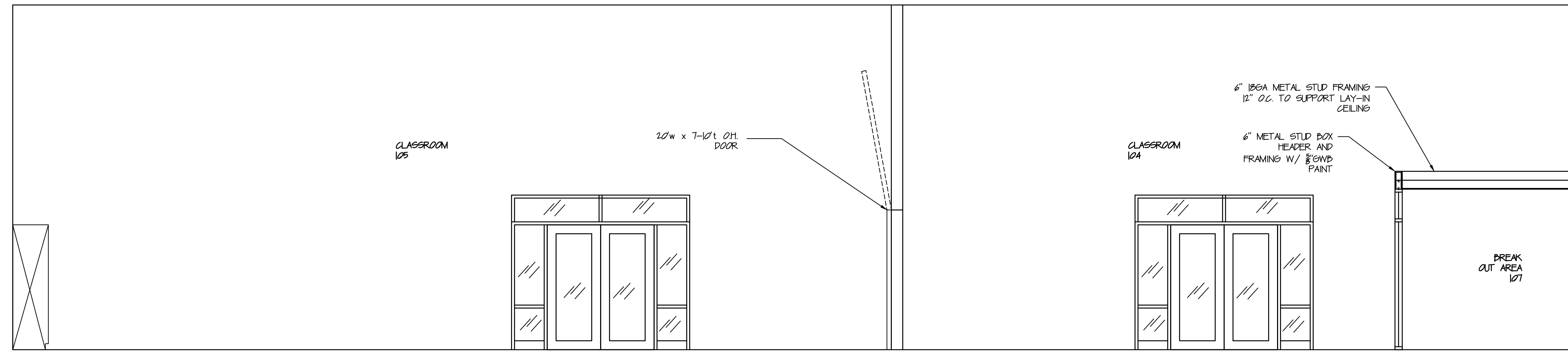
C WALL SECTION
A3.2 SCALE: 1/2" = 1'-0"



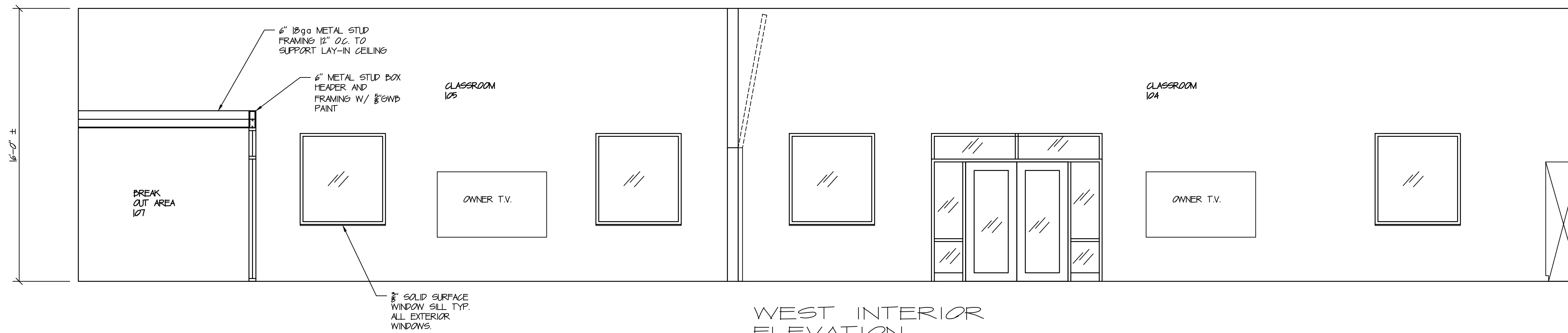
B SECTION BETWEEN
COLUMNS
A3.2 SCALE: 1/2" = 1'-0"



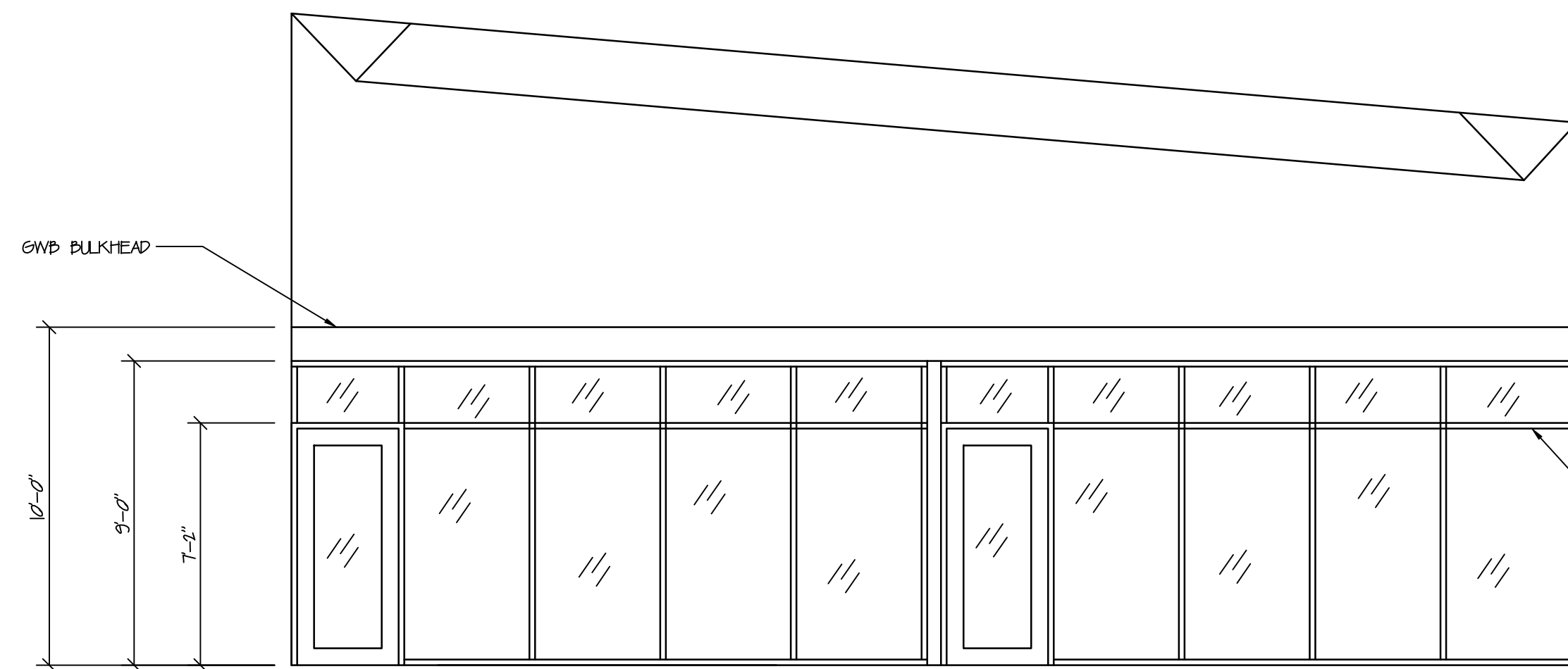
A SECTION AT COLUMN
A3.2 SCALE: 1/2" = 1'-0"



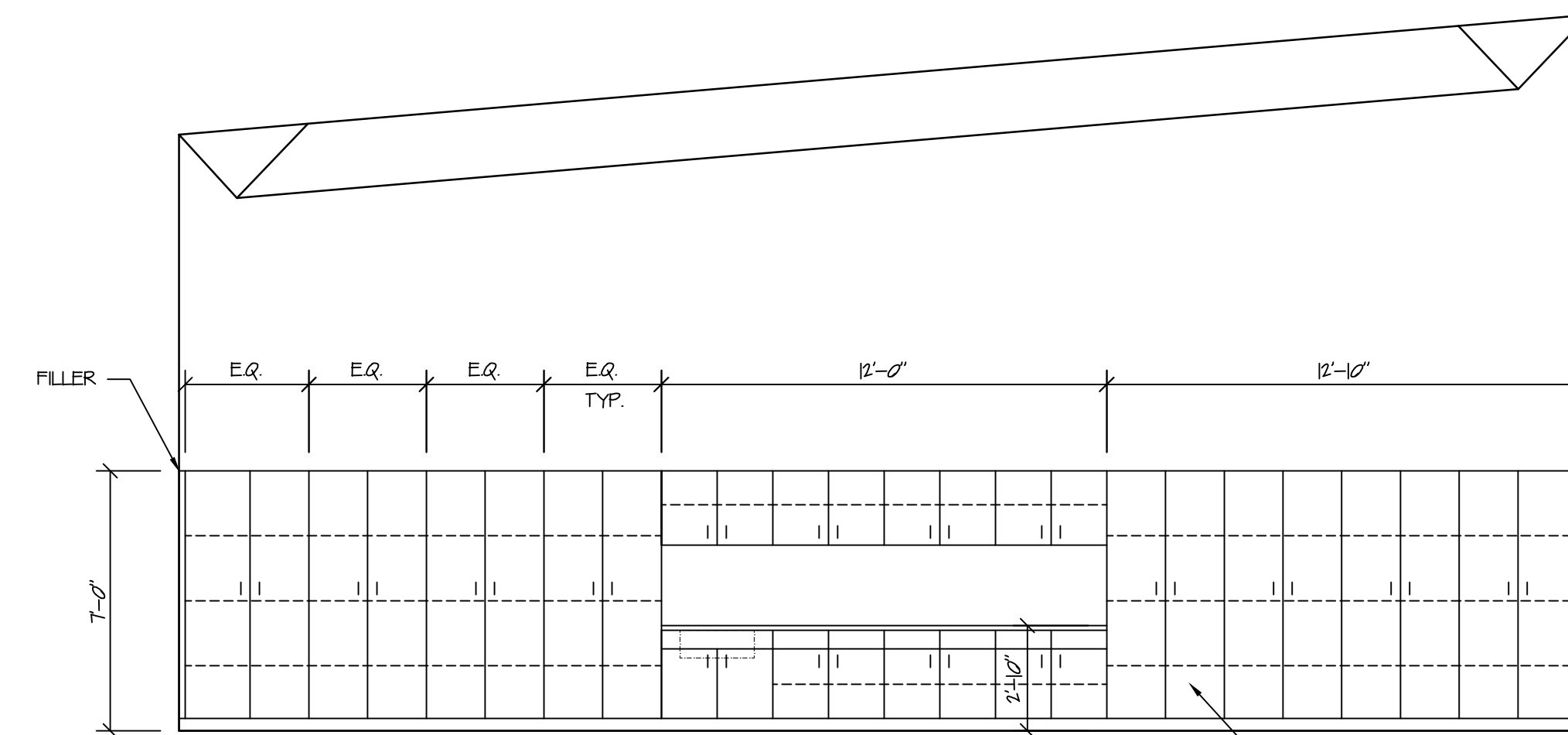
EAST INTERIOR
ELEVATION
SCALE: 1/4" = 1'-0"



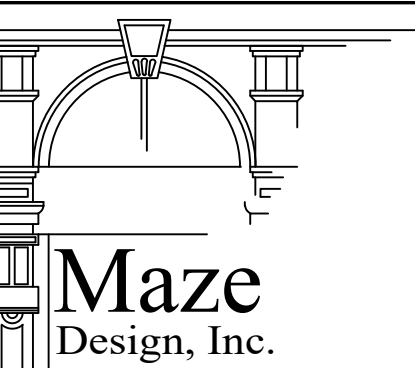
WEST INTERIOR
ELEVATION
SCALE: 1/4" = 1'-0"



SOUTH INTERIOR
ELEVATION
SCALE: 1/4" = 1'-0"



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



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Date..... 07/26/2222

Revision:
No. Date

ROOM FINISH SCHEDULE:

| ROOM # | ROOM NAME | FLOOR | | CEILING | | NORTH WALL | | | | EAST WALL | | | | SOUTH WALL | | | | WEST WALL | | | | Note: |
|--------|----------------|-------|------------------|------------|------|------------|-------|-------|------|-----------|-------|-------|------|------------|-------|-------|------|-----------|-------|-------|------|-------|
| | | MAT'L | FIN | MAT'L | FIN | HT. | MAT'L | FIN. | WNST | BASE | MAT'L | FIN. | WNST | BASE | MAT'L | FIN. | WNST | BASE | MAT'L | FIN. | WNST | |
| 101 | ENTRY | CONC. | EPOXY FLAKE | LAY-IN | | 9'-0" | CMU | PAINT | | VINYL | CMU | PAINT | | VINYL | CMU | PAINT | | VINYL | CMU | PAINT | | VINYL |
| 102 | WOMEN | CONC. | EPOXY FLAKE | LAY-IN | | 8'-0" | CMU | PAINT | | VINYL | CMU | PAINT | | VINYL | CMU | PAINT | | VINYL | CMU | PAINT | | VINYL |
| 103 | MEN | CONC. | EPOXY FLAKE | LAY-IN | | 8'-0" | CMU | PAINT | | VINYL | CMU | PAINT | | VINYL | CMU | PAINT | | VINYL | CMU | PAINT | | VINYL |
| 104 | CLASSROOM | CONC. | EPOXY FLAKE | OPEN PAINT | OPEN | OPEN | CMU | PAINT | | VINYL | CMU | PAINT | | VINYL | CMU | PAINT | | VINYL | CMU | PAINT | | VINYL |
| 105 | CLASSROOM | CONC. | EPOXY FLAKE | OPEN PAINT | OPEN | OPEN | CMU | PAINT | | VINYL | CMU | PAINT | | VINYL | CMU | PAINT | | VINYL | CMU | PAINT | | VINYL |
| 106 | BREAK OUT AREA | CONC. | EPOXY FLAKE | LAY-IN | | 9'-0" | CMU | GLASS | | | CMU | PAINT | | VINYL | CMU | PAINT | | VINYL | CMU | PAINT | | VINYL |
| 107 | BREAK OUT AREA | CONC. | EPOXY FLAKE | LAY-IN | | 9'-0" | CMU | GLASS | | | CMU | PAINT | | VINYL | CMU | PAINT | | VINYL | CMU | PAINT | | VINYL |
| E101 | CORRIDOR | EXIST | EXISTING / EPOXY | EXISTING | | | EXIST | | | | EXIST | | | | EXIST | | | | EXIST | | | |

DOOR SCHEDULE:

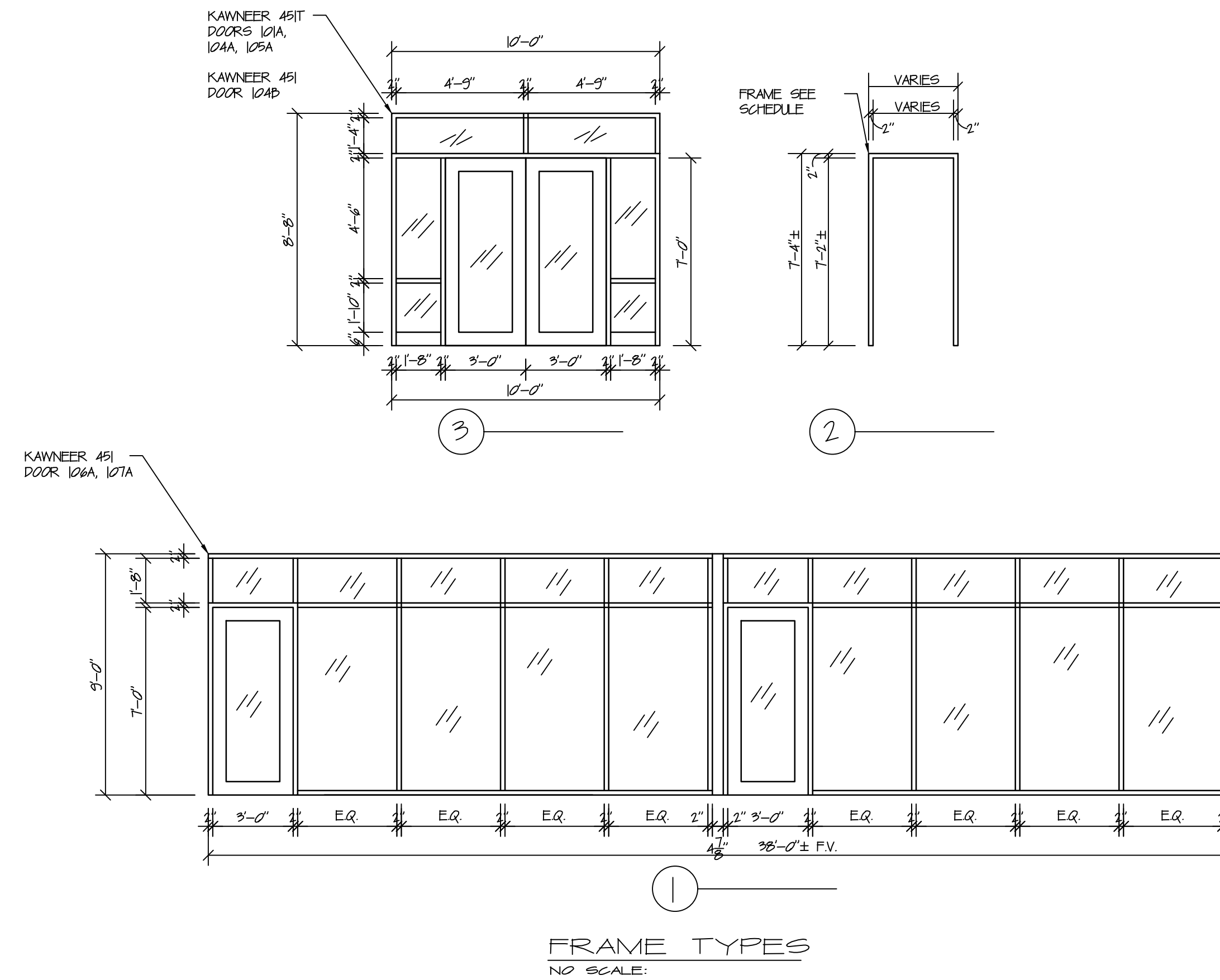
| DOOR # | SIZE | THK | TYPE | MAT'L | WALL LOCATION | | THK | TYPE | FRAME | LINTEL | FIRE LABEL | Notes: |
|--------|-----------------|-------|------|-------|---------------|-----|------|------|---------|--------|------------|--------|
| | | | | | EXT | INT | | | | | | |
| 101A | (2) 3'-0"x7'-0" | 1 3/4 | B | ALUM | X | | PLAN | MAS | ALUM 3 | YES | NO | |
| 101B | (2) 3'-0"x7'-2" | 1 3/4 | A | WOOD | | X | PLAN | MAS | METAL 2 | YES | 1 1/2 HR | |
| 102A | 3'-0"x7'-2" | 1 3/4 | A | WOOD | | X | PLAN | MAS | METAL 2 | YES | NO | |
| 103A | 3'-0"x7'-2" | 1 3/4 | A | WOOD | | X | PLAN | MAS | METAL 2 | YES | NO | |
| 104A | (2) 3'-0"x7'-0" | 1 3/4 | B | ALUM | X | | PLAN | MAS | ALUM 3 | YES | NO | |
| 104B | (2) 3'-0"x7'-0" | 1 3/4 | B | ALUM | | X | PLAN | MAS | ALUM 3 | YES | NO | |
| 105A | (2) 3'-0"x7'-0" | 1 3/4 | B | ALUM | X | | PLAN | MAS | ALUM 3 | YES | NO | |
| 105B | 3'-0"x7'-2" | 1 3/4 | A | WOOD | | X | PLAN | MAS | METAL 2 | YES | NO | |
| 106A | 3'-0"x7'-0" | 1 3/4 | B | ALUM | | X | PLAN | MAS | METAL 1 | YES | NO | |
| 107A | 3'-0"x7'-0" | 1 3/4 | B | ALUM | | X | PLAN | MAS | METAL 1 | YES | NO | |

KEYING

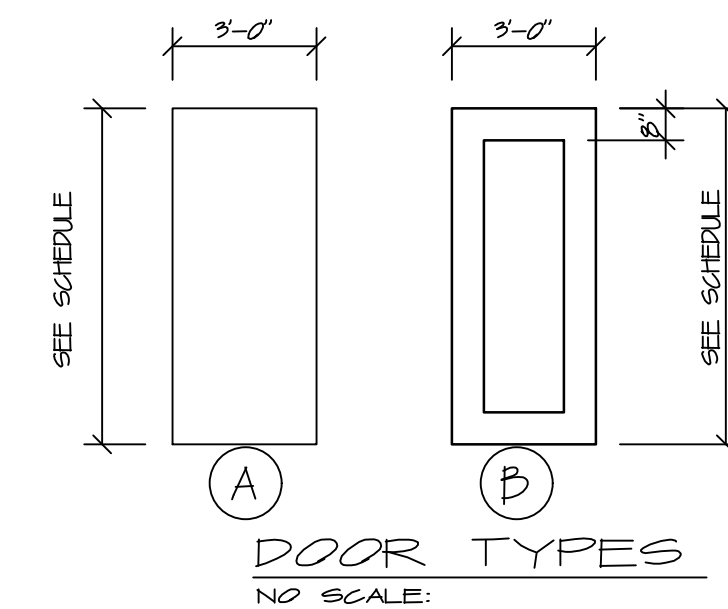
CONTRACTOR TO CONDUCT KEYING MEETING WITH OWNER REPRESENTATIVE AND PROVIDE KEYING SCHEDULE FOR FINAL APPROVAL. NEW DOORS TO BE KEYED ONTO OWNERS MASTER SYSTEM.

DOOR SCHEDULE NOTE:

- KAWNEER DOORS AND FRAMES TO BE ANODIZED ALUMINUM COLOR.
- DOOR HARDWARE TO BE 7 PIN BEST.
- LEVER LOCKSETS TO BE GLITCH STYLE 'D'.
- PANIC HARDWARE TO BE VERTICAL CONCEALED RODS.
- DOOR HARDWARE TO BE SATIN.
- CONTRACTOR TO SUPPLY AND INSTALL CONSTRUCTION CORES.
- OWNER TO SUPPLY AND INSTALL FINAL CORES.



FRAME TYPES
NO SCALE:



GLASS NOTES

- ALL EXTERIOR GLASS TO BE CLEAR TINT MATCH MIDDLE SCHOOL.
- ALL EXTERIOR GLASS TO BE LAMINATED SAFETY GLASS.
- ALL INTERIOR GLASS TO BE CLEAR.
- ALL GLASS TO BE IN COMPLIANCE WITH ALL APPLICABLE CODES.

WINDOW SILL DETAIL
NO SCALE:

A6.1 ALUM. WINDOW DETAIL
NO SCALE:

ALUM EXT. JAMB DETAIL
NO SCALE:

METAL JAMB DETAIL
SCALE: 3" = 1'-0"

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FIRE EXTINGUISHER

- A. OWNER TO PROVIDE (2) SEMI-RECESSED OR SURFACE MOUNT FIRE EXTINGUISHER CABINETS, E.G. TO INSTALL CABINET AT OWNER / FIRE DEPARTMENT SPECIFIED LOCATIONS.

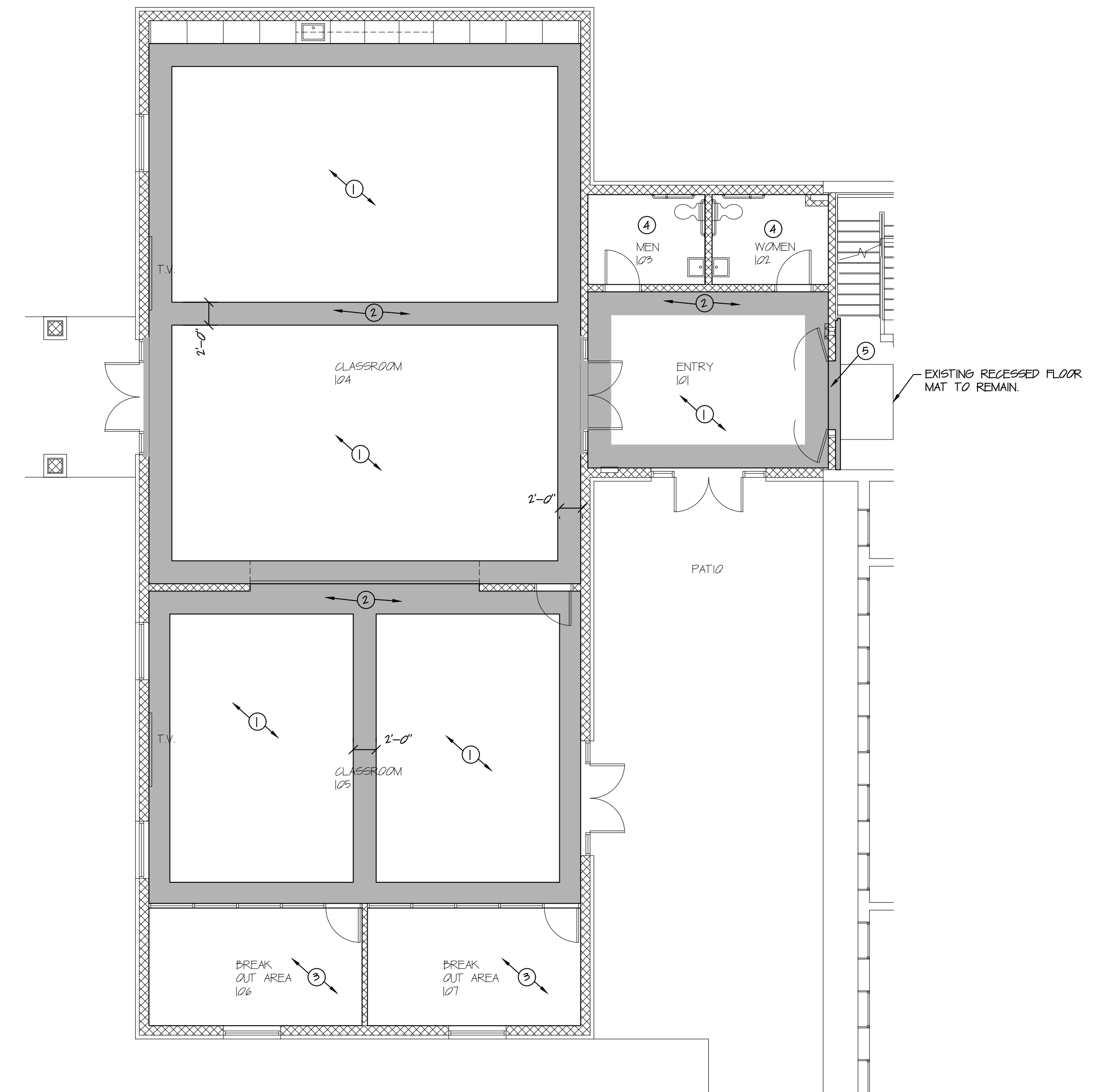
GENERAL NOTES

- A. 4" VINYL WALL BASE ALL ROOMS.

○ EPOXY FLOOR NOTES

1. EPOXY FLAKE FLOOR COLOR "A" CLASSROOM FIELD
2. EPOXY FLAKE FLOOR COLOR "B" CLASSROOM BORDER
3. EPOXY FLAKE FLOOR COLOR "C" BREAKOUT AREA
4. EPOXY FLAKE FLOOR COLOR "D" RESTROOM NO BASE AT RESTROOM WALLS
5. EPOXY FLAKE FLOOR COLOR "D" WHERE TERRAZZO FLOOR WAS REMOVED AND PATCHED.

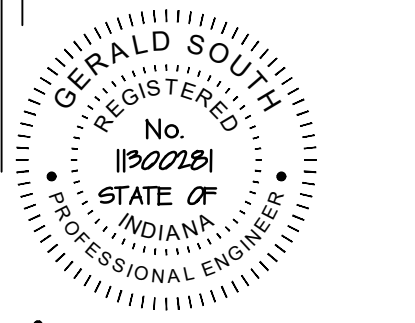
NOTE:
LARGER 1/4" FLAKES PARK CITY COLOR.



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



Maze Design, Inc.
260 National Road West
Richmond, IN 47374
(765) 963-1100
E-Mail: dig@mazedesigninc.com
Building & Interior Design, Engineering, Construction Management



Gerald South
Certified By

PTECH INNOVATION CENTER
RANDOLPH CENTRAL SCHOOL CORPORATION
WINCHESTER INDIANA

Project No.... 2275-1
Coordinator.... INDERSTRADT

Date..... 11/08/2015

Revision: No. Date

FINISH SCHEDULE- PTECH

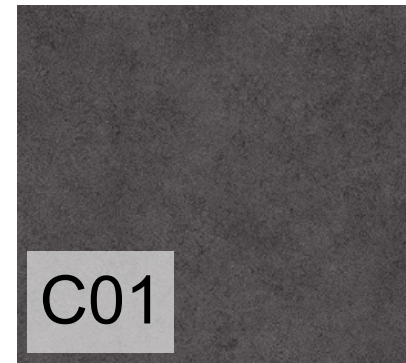
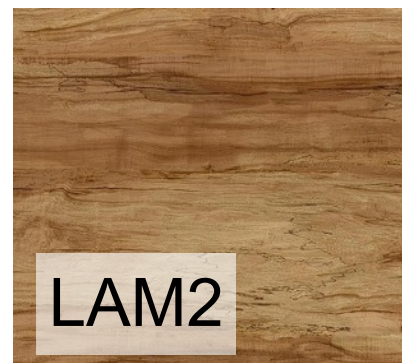
| RM. # | NAME | WALL FINISHES | | | | FLOOR | BASE | CLG. | CASEWORK | TILE | COUNTERTOPS | NOTES |
|-------|--|---------------|-------|-----|----|-------|------|------|-------------|------|-------------|--|
| | | N. | S. | E. | W. | | | | | | | |
| 1 | CORRIDOR E101 | N/A | N/A | N/A | P2 | N/A | N/A | N/A | N/A | N/A | N/A | Corridor to remain as is aside from new Entrance wall- to be painted P2; Base to match existing material in existing corridor for seamless transition |
| 2 | ENTRY 101 | P1 | P1 | P1 | P2 | F1/F2 | B1 | N/A | N/A | N/A | N/A | |
| 3 | WOMEN 102 | P1 | P1 | P1 | P3 | F1 | B1 | N/A | N/A | N/A | N/A | |
| 4 | MEN 103 | P1 | P1 | P3 | P1 | F1 | B1 | N/A | N/A | N/A | N/A | |
| 5 | CLASSROOM 104 | P1/P3 | P3 | P1 | P1 | F1/F2 | B1 | P4 | LAM-1/LAM-2 | N/A | CO1 | Laminate Type to be specified by Maze Design INC. Laminate Finish to be Matte. Countertop Finish to be Glaze. Refer to North Interior Elevation on specific finish placement in Design Documents. All ceiling to be painted P4 including; Exposed Structural Steel, Roof Deck, & Exposed Duct Work |
| 6 | CLASSROOM 105 | P2 | P1/P2 | P1 | P1 | F1/F2 | B1 | P4 | N/A | N/A | N/A | Refer to South Interior Elevation on specific finish placement in Design Documents; All ceiling to be painted P4 including; Exposed Structural Steel, Roof Deck, & Exposed Duct Work |
| 7 | BREAK OUT AREA 106 (Orange Signage) | N/A | P1 | P1 | P1 | F1 | B1 | N/A | N/A | N/A | N/A | Neon Signage to be installed on south wall; signage to be designated by PTECH team; signage finish to match as close to P2 |
| 8 | BREAK OUT AREA 107 (Blue Signage) | N/A | P1 | P1 | P1 | F1 | B1 | N/A | N/A | N/A | N/A | Neon Signage to be installed on south wall; signage to be designated by PTECH team; signage finish to match as close to P3 |



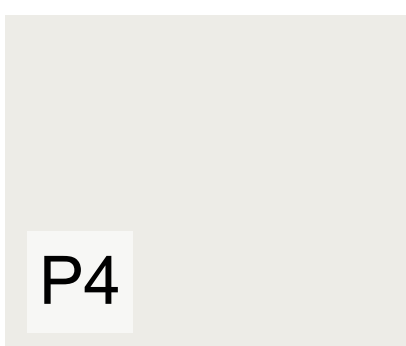
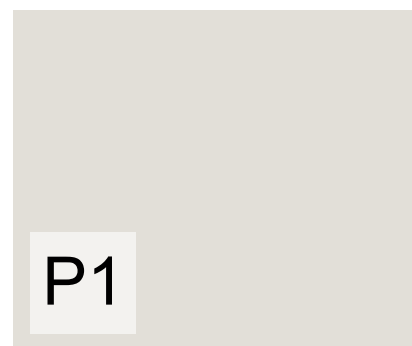
ALWAYS HOME
CUSTOM DESIGNS

PTECH PROJECT

| FINISHES KEY | |
|---------------------------------|--|
| PAINT: | |
| P1 | SHERWIN WILLIAMS 7014 EIDER WHITE |
| P2 | SHERWIN WILLIAMS 6892 CARNIVAL |
| P3 | SHERWIN WILLIAMS 7602 INDIGO BATIK |
| P4 | SHERWIN WILLIAMS 7005 PURE WHITE |
| FLOORING: | |
| F1 | DEX-0-TEX; 1/4" - PARK CITY |
| F2 | DEX-0-TEX; 1/4" - WHITE FISH |
| BASE: | |
| B1 | ARMSTRONG FLOORING; COMMERCIAL COVE WALL BASE- SMOKEY GRAY: R415G |
| COUNTERTOPS: | |
| CO1 | WILSON ART- SALENTINA NERO - 1864 |
| CABINET LAMINATE FINISH: | |
| LAM1 | WILSON ART- ATLANTIS- D25 |
| LAM2 | WILSON ART- LOUISIANA PECAN - Y0818 |
| DOOR STAIN FINISH: | |
| S1 | CHAPEL DOOR COMPANY- RED OAK- CLEAR |
| DOOR FRAME FINISH: | |
| DP1 | SHERWIN WILLIAMS 7069 IRON ORE |



| DOOR DETAILS | | | |
|--------------|-------------|--------------|-------|
| Door # | MAIN FINISH | FRAME FINISH | NOTES |
| 103 A | S1 | DP-1 | |
| 102 A | S1 | DP-1 | |
| 105 B | S1 | DP-1 | |



FINISHES

"DRAWINGS ARE FOR DESIGN CONCEPT ONLY. DRAWINGS ARE NOT FOR CONSTRUCTION PURPOSES. CONTRACTOR AND SUBCONTRACTORS ARE RESPONSIBLE FOR TAKING THEIR OWN MEASUREMENTS AND MAKING APPROPRIATE MODIFICATIONS FOR CONSTRUCTION AND PRODUCTION OF EACH AREA REPRESENTED."

SHEET NUMBER

F-1

SCALE:

REVISION #:

FINISH SCHEDULE- PTECH

| RM. # | NAME | WALL FINISHES | | | | FLOOR | BASE | CLG. | CASEWORK | TILE | COUNTERTOPS | NOTES |
|-------|--|---------------|-------|-----|----|-------|------|------|-------------|------|-------------|--|
| | | N. | S. | E. | W. | | | | | | | |
| 1 | CORRIDOR E101 | N/A | N/A | N/A | P2 | N/A | N/A | N/A | N/A | N/A | N/A | Corridor to remain as is aside from new Entrance wall- to be painted P2; Base to match existing material in existing corridor for seamless transition |
| 2 | ENTRY 101 | P1 | P1 | P1 | P2 | F1/F2 | B1 | N/A | N/A | N/A | N/A | |
| 3 | WOMEN 102 | P1 | P1 | P1 | P3 | F1 | B1 | N/A | N/A | N/A | N/A | |
| 4 | MEN 103 | P1 | P1 | P3 | P1 | F1 | B1 | N/A | N/A | N/A | N/A | |
| 5 | CLASSROOM 104 | P1/P3 | P3 | P1 | P1 | F1/F2 | B1 | P4 | LAM-1/LAM-2 | N/A | CO1 | Laminate Type to be specified by Maze Design INC. Laminate Finish to be Matte. Countertop Finish to be Glaze. Refer to North Interior Elevation on specific finish placement in Design Documents. All ceiling to be painted P4 including; Exposed Structural Steel, Roof Deck, & Exposed Duct Work |
| 6 | CLASSROOM 105 | P2 | P1/P2 | P1 | P1 | F1/F2 | B1 | P4 | N/A | N/A | N/A | Refer to South Interior Elevation on specific finish placement in Design Documents; All ceiling to be painted P4 including; Exposed Structural Steel, Roof Deck, & Exposed Duct Work |
| 7 | BREAK OUT AREA 106 (Orange Signage) | N/A | P1 | P1 | P1 | F1 | B1 | N/A | N/A | N/A | N/A | Neon Signage to be installed on south wall; signage to be designated by PTECH team; signage finish to match as close to P2 |
| 8 | BREAK OUT AREA 107 (Blue Signage) | N/A | P1 | P1 | P1 | F1 | B1 | N/A | N/A | N/A | N/A | Neon Signage to be installed on south wall; signage to be designated by PTECH team; signage finish to match as close to P3 |

FINISHES KEY

PAINT:

| | |
|----|------------------------------------|
| P1 | SHERWIN WILLIAMS 7014 EIDER WHITE |
| P2 | SHERWIN WILLIAMS 6892 CARNIVAL |
| P3 | SHERWIN WILLIAMS 7602 INDIGO BATIK |
| P4 | SHERWIN WILLIAMS 7005 PURE WHITE |

FLOORING:

| | |
|----|------------------------------|
| F1 | DEX-0-TEX; 1/4" - PARK CITY |
| F2 | DEX-0-TEX; 1/4" - WHITE FISH |

BASE:

| | |
|----|--|
| B1 | ARMSTRONG FLOORING; COMMERCIAL COVE WALL BASE- SMOKEY GRAY: R41SG |
|----|--|

COUNTERTOPS:

| | |
|-----|-----------------------------------|
| CO1 | WILSON ART- SALENTINA NERO - 1864 |
|-----|-----------------------------------|

CABINET LAMINATE FINISH:

| | |
|------|-------------------------------------|
| LAM1 | WILSON ART- ATLANTIS- D25 |
| LAM2 | WILSON ART- LOUISIANA PECAN - Y0818 |

DOOR STAIN FINISH:

| | |
|----|-------------------------------------|
| S1 | CHAPEL DOOR COMPANY- RED OAK- CLEAR |
|----|-------------------------------------|

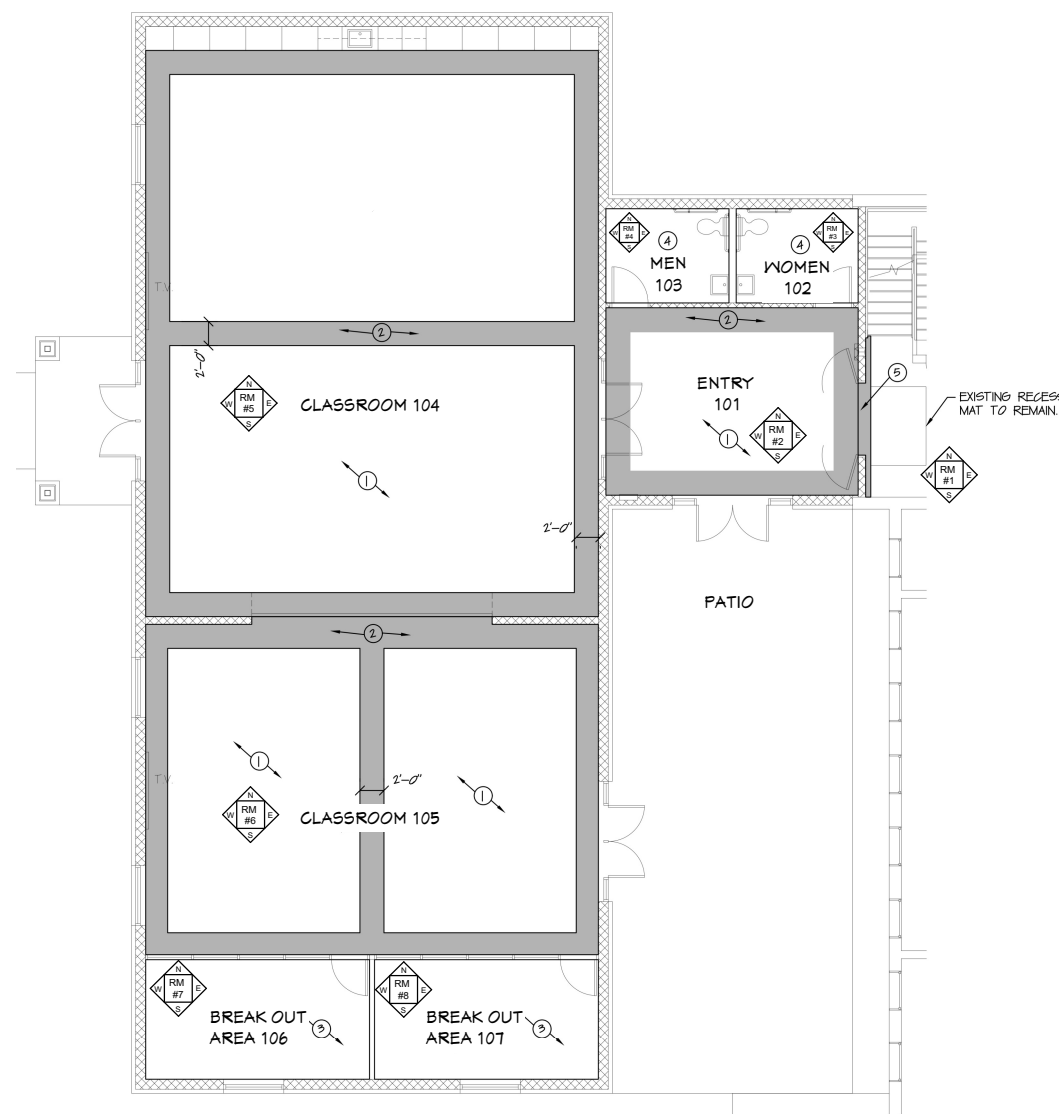
DOOR FRAME FINISH:

| | |
|-----|--------------------------------|
| DP1 | SHERWIN WILLIAMS 7069 IRON ORE |
|-----|--------------------------------|

DOOR DETAILS

| Door # | MAIN FINISH | FRAME FINISH | NOTES |
|--------|-------------|--------------|-------|
| 103 A | S1 | DP-1 | |
| 102 A | S1 | DP-1 | |
| 105 B | S1 | DP-1 | |

FINISHES PLAN



ALWAYS HOME
CUSTOM DESIGNS

PTECH PROJECT

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SHEET NUMBER

F-2

SCALE:

REVISION #:

FINISH SCHEDULE- PTECH

| RM. # | NAME | WALL FINISHES | | | | FLOOR | BASE | CLG. | CASEWORK | TILE | COUNTERTOPS | NOTES |
|-------|--|---------------|-------|-----|----|-------|------|------|-------------|------|-------------|--|
| | | N. | S. | E. | W. | | | | | | | |
| 1 | CORRIDOR E101 | N/A | N/A | N/A | P2 | N/A | N/A | N/A | N/A | N/A | N/A | Corridor to remain as is aside from new Entrance wall- to be painted P2; Base to match existing material in existing corridor for seamless transition |
| 2 | ENTRY 101 | P1 | P1 | P1 | P2 | F1/F2 | B1 | N/A | N/A | N/A | N/A | |
| 3 | WOMEN 102 | P1 | P1 | P1 | P3 | F1 | B1 | N/A | N/A | N/A | N/A | |
| 4 | MEN 103 | P1 | P1 | P3 | P1 | F1 | B1 | N/A | N/A | N/A | N/A | |
| 5 | CLASSROOM 104 | P1/P3 | P3 | P1 | P1 | F1/F2 | B1 | P4 | LAM-1/LAM-2 | N/A | CO1 | Laminate Type to be specified by Maze Design INC. Laminate Finish to be Matte. Countertop Finish to be Glaze. Refer to North Interior Elevation on specific finish placement in Design Documents. All ceiling to be painted P4 including; Exposed Structural Steel, Roof Deck, & Exposed Duct Work |
| 6 | CLASSROOM 105 | P2 | P1/P2 | P1 | P1 | F1/F2 | B1 | P4 | N/A | N/A | N/A | Refer to South Interior Elevation on specific finish placement in Design Documents; All ceiling to be painted P4 including; Exposed Structural Steel, Roof Deck, & Exposed Duct Work |
| 7 | BREAK OUT AREA 106 (Orange Signage) | N/A | P1 | P1 | P1 | F1 | B1 | N/A | N/A | N/A | N/A | Neon Signage to be installed on south wall; signage to be designated by PTECH team; signage finish to match as close to P2 |
| 8 | BREAK OUT AREA 107 (Blue Signage) | N/A | P1 | P1 | P1 | F1 | B1 | N/A | N/A | N/A | N/A | Neon Signage to be installed on south wall; signage to be designated by PTECH team; signage finish to match as close to P3 |

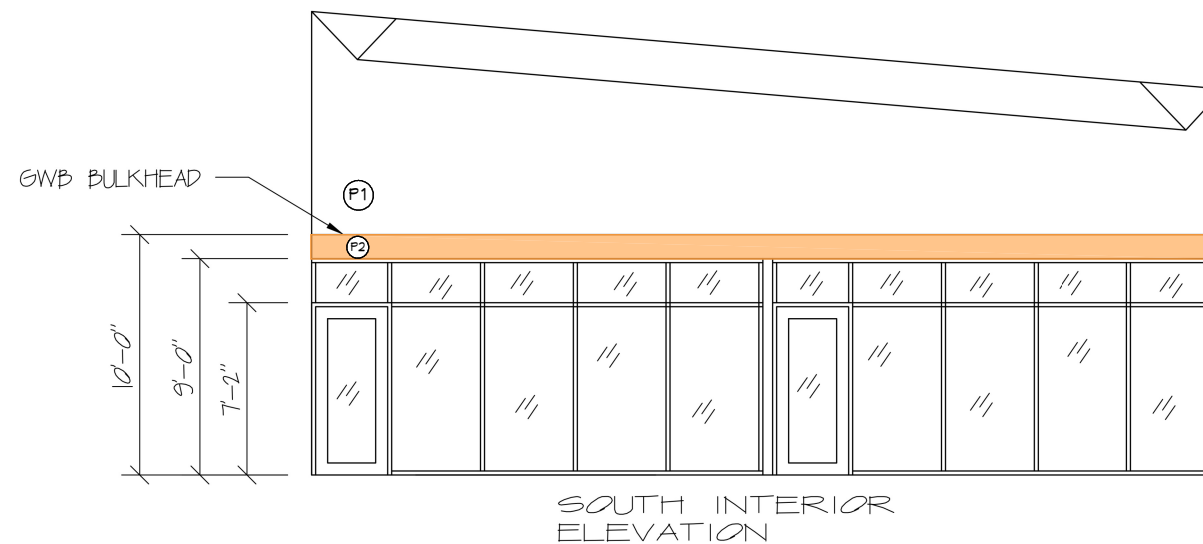
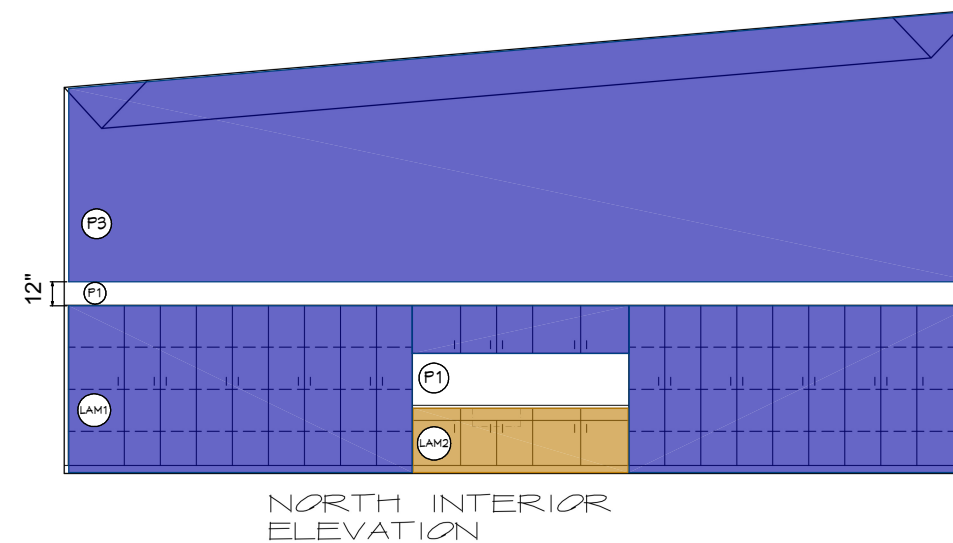
FINISHES KEY

| PAINT: | |
|--------------------------|--|
| P1 | SHERWIN WILLIAMS 7014 EIDER WHITE |
| P2 | SHERWIN WILLIAMS 6892 CARNIVAL |
| P3 | SHERWIN WILLIAMS 7602 INDIGO BATIK |
| P4 | SHERWIN WILLIAMS 7005 PURE WHITE |
| FLOORING: | |
| F1 | DEX-0-TEX; 1/4" - PARK CITY |
| F2 | DEX-0-TEX; 1/4" - WHITE FISH |
| BASE: | |
| B1 | ARMSTRONG FLOORING; COMMERCIAL COVE WALL BASE- SMOKEY GRAY: R41SG |
| COUNTERTOPS: | |
| CO1 | WILSON ART- SALENTINA NERO - 1864 |
| CABINET LAMINATE FINISH: | |
| LAM1 | WILSON ART- ATLANTIS- D25 |
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| DOOR STAIN FINISH: | |
| S1 | CHAPEL DOOR COMPANY- RED OAK- CLEAR |
| DOOR FRAME FINISH: | |
| DP1 | SHERWIN WILLIAMS 7069 IRON ORE |

DOOR DETAILS

| Door # | MAIN FINISH | FRAME FINISH | NOTES |
|--------|-------------|--------------|-------|
| 103 A | S1 | DP-1 | |
| 102 A | S1 | DP-1 | |
| 105 B | S1 | DP-1 | |

FINISHES ELEVATIONS



AH ALWAYS HOME
CUSTOM DESIGNS

PTECH PROJECT

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SHEET NUMBER

F-3

SCALE:

REVISION #:

HPH & ASSOCIATES, INC

440 ARIENS AVE. - SUITE 2
CONNERSVILLE, INDIANA 47331-1151
ph. 765-825-7454 fax. 765-825-4633
email. hphengr@gmail.com



Timothy K. O'Rourke

REVISIONS:



GENERAL NOTES

- ALL DIMENSIONS ON THE STRUCTURAL PRINTS MUST BE VERIFIED BY THE CONTRACTOR BEFORE PROCEEDING WITH ANY FABRICATION OR ERECTION. VERIFY ALL ELEVATIONS, AND JOB SITE CONDITIONS BEFORE PROCEEDING WITH NEW CONSTRUCTION. NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.
- GENERAL CONTRACTOR SHALL COORDINATE WORK WITH SUBCONTRACTORS IN THE WORK AREA.
- CONTRACTOR SHALL TAKE PROTECTIVE MEASURE TO PREVENT DAMAGE TO ANY EXISTING STRUCTURES.
- CONTRACTOR IS RESPONSIBLE FOR KEEPING THE CONSTRUCTIONS SITE CLEAN. ENGINEER WILL DETERMINE THE DEFINITION OF CLEAN.
- ALL MATERIAL ON SITE MUST BE PROTECTED AND STORED PER MATERIAL MANUFACTURER'S STANDARDS.
- CONTRACTOR SHALL PROVIDE CONSTRUCTION FENCE AROUND THE WORK AREA TO KEEP NON-CONSTRUCTION PERSONNEL OUT OF THE WORK AREA.
- CONTRACTOR SHALL CONFIRM ACTUAL UNDERGROUND UTILITIES. CONTRACTOR SHALL REROUTE EXISTING UNDERGROUND UTILITIES WHICH INTERFERE WITH THE NEW CONSTRUCTION.
- CONTRACTOR TO PROVIDE AS BUILT DRAWINGS SHOWING ANY DEVIATION FROM THE DESIGN DRAWINGS AND ANY RE-ROUTED UTILITY LINES NEW LOCATIONS.
- WHERE A DISCREPANCY MAY OCCUR BETWEEN THE DRAWINGS AND A GENERAL NOTE OR TYPICAL DETAIL THE DRAWINGS SHALL PREVAIL.
- CONTRACTOR SHALL SHORE ANY EXISTING FOUNDATIONS AS REQUIRED FOR NEW CONSTRUCTION. ALL SHORING MUST REMAIN IN PLACE UNTIL NEW CONSTRUCTION IS COMPLETE AND THE EXISTING STRUCTURE IS TIED INTO THE NEW STRUCTURE.

CONCRETE NOTES

- ALL CONCRETE MATERIALS, AND THE MIXING, HANDLING, PLACING, AND CURING OF THE CONCRETE SHALL BE IN ACCORDANCE WITH THE CURRENT BUILDING CODE REQUIREMENTS AND CURRENT ACI 301, 305, 306, AND 318
- ALL CONCRETE SHALL BE NORMAL WEIGHT (150 LBS./CU.FT.) CONCRETE UNLESS NOTED OTHERWISE (U.N.O.).
- SUBMIT A MIX DESIGN FOR THE CONCRETE SPECIFIED
- CONCRETE MATERIALS (U.N.O.):
 - PORTLAND CEMENT TYPE I OR TYPE III, ASTM C150
 - WATER CLEAN POTABLE
 - COARSE AGGREGATE CRUSHED STONE, INDOT SIZE #8, ASTM C33
 - FINE AGGREGATE SAND, INDOT SIZE #23, ASTM C33
 - AIR ENTRAINING ADMIXTURE ASTM C260
 - AIR CONTENT 6% +/- 1 PERCENT
 - HIGH RANGE WATER REDUCING ADMIXTURE TYPE F, ASTM C494
- CONCRETE MIX (U.N.O.):
 - COMPRESSIVE STRENGTH AT 28 DAYS 4,000 PSI
 - MINIMUM CEMENT CONTENT OF 664 LB./CU. YD.
 - MAXIMUM WATER TO CEMENT RATIO OF 0.40
 - HIGH RANGE WATER REDUCER **REQUIRED**
 - MAXIMUM SLUMP 6" AFTER HRWR ADDMIXTURE
 - AIR CONTENT 6% +/- 1 PERCENT
- FLY ASH MEETING ASTM C618 TYPE 'C' WITH MAXIMUM LOSS ON IGNITION OF 1.5 PERCENT AND THE MAXIMUM AMOUNT RETAINED WHEN WET-SIEVED ON NO. 325 SIEVE OF 30 PERCENT. FLY ASH MAY BE USED TO SUBSTITUTE FOR CEMENT WITH A MAXIMUM OF 20 PERCENT BY WEIGHT.
- CONCRETE SHALL BE DESIGNED WITH A 2" SLUMP AND A HIGH RANGE WATER REDUCER OR SUPERPLASTICIZER ADDED ON SITE TO ACHIEVE A MAXIMUM SLUMP OF 6" FOR PLACEMENT.
- ABSOLUTELY **NO** WATER SHALL BE ADDED TO THE CONCRETE AT THE SITE.
- CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER WHEN REINFORCEMENT AND EMBED PLACEMENT FOR A POUR IS NEARING COMPLETION SO THAT THE INSTALLED ITEMS MAY BE REVIEWED. ALLOW SUFFICIENT TIME FOR THE ENGINEER TO SCHEDULE FIELD TIME AND SETTER TO MAKE ADJUSTMENTS OR CORRECTIONS PRIOR TO STARTING CONCRETING OPERATIONS.
- CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER PRIOR TO ALL CONCRETE POURS.
- CONCRETE SHALL NOT FREE FALL FROM CONCRETE PUMP TRUNK OR CONCRETE SHOOT IN EXCESS OF THREE FEET (3').
- CONTRACTOR SHALL MECHANICALLY VIBRATE ALL CONCRETE. CONTRACTOR SHALL NOT OVER VIBRATE CONCRETE AND CAUSE CONSOLIDATION OF THE COARSE AGGREGATE.
- CONCRETE SHALL BE CURED WITH A CURING AND SEALING COMPOUND APPROVED BY PROJECT ENGINEER.
- CONCRETE SLABS ON GRADE SHALL RECEIVE A POWER TROWELED SMOOTH FINISH.
- CONCRETE SLABS ON GRADE SHALL BE CUT WITH IN A 12 HOUR PERIOD AFTER BEING PLACED. SAW KERFS SHALL BE ONE QUARTER THE DEPTH OF THE SLAB DEPTH AND ENCLOSE NO MORE THAN 400 QUARTER FEET AND HAVE A WIDTH TO LENGTH RATIO NOT EXCEEDING 2:1. STRESSCAP CONTROL JOINT FORMS (BY DAYTON SUPERIOR) MAY BE INSERTED INTO THE WET CONCRETE IN LIEU OF CUTTING SAW KERFS. (UNLESS NOTED OTHERWISE)
- PROVIDE ADEQUATE TESTING AND REPORTS FOR ALL CONCRETE FROM AN APPROVED TESTING LABORATORY.
- ONLY NON-CHLORIDE ACCELERATOR MAY BE USED IN THE CONCRETE.
- ALL CONCRETE EXPOSED TO WEATHER SHALL BE AIR ENTRAINED.
- ALL SLABS ON GRADE SHALL BE REINFORCED WITH REINFORCING STEEL AS SHOWN ON PLAN.

REINFORCING STEEL NOTES

- ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60
- ALL WELDED WIRE FABRIC SHALL BE EITHER ASTM A185 WITH A MINIMUM YIELD STRENGTH OF 65 KSI OR ASTM A497 WITH A MINIMUM YIELD STRENGTH OF 70 KSI.
- ALL CONCRETE REINFORCEMENT MATERIALS SHALL BE NEW, FREE FROM RUST, FORM OIL, OR ANY SUBSTANCE THAT WOULD PREVENT BONDING OF THE CONCRETE TO THE STEEL.
- ALL REINFORCING STEEL BENDS, HOOKS, LAP SPLICES, AND MINIMUM CONCRETE COVER SHALL CONFORM TO THE CURRENT EDITION OF ACI 'BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE' (ACI 318) UNLESS NOTED OTHERWISE (U.N.O.).
- SLAB BOLSTERS, HIGH CHAIRS, BEAM BOLSTERS, AND ALL OTHER ACCESSORIES IN CONTACT WITH THE FORMS FOR EXPOSED CONCRETE, BOTH INTERIOR AND EXTERIOR, SHALL BE PLASTIC TIPPED. SUCH ACCESSORIES SHALL HAVE TURNED UP LEGS.
- ALL DETAILS OF REINFORCING STEEL FABRICATION AND PLACEMENT SHALL CONFORM TO ACI 'DETAILS AND DETAILING OF CONCRETE REINFORCEMENT' (ACI 315) AND 'MANUAL OF ENGINEERING AND PLACING DRAWINGS FOR REINFORCED CONCRETE STRUCTURES' (ACI 315R) (U.N.O.).
- ALL REINFORCING STEEL SHALL BE SUPPORTED AND SECURED AGAINST DISPLACEMENT IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE'S "MANUAL OF STANDARD PRACTICE". ALL EMBEDDED STEEL, BEAMS PLATES, ETC. SHALL BE ANCHORED IN SUCH A MANNER TO PREVENT DISPLACEMENT DURING THE PLACEMENT OF THE CONCRETE.
- WELDING INCLUDING TACK WELDING OF THE REINFORCING STEEL IS **NOT** PERMITTED UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR APPROVAL IS OBTAINED FROM THE ENGINEER.
- SHOP DRAWINGS FOR REINFORCING STEEL SHALL INCLUDE 1/4" SCALE ELEVATIONS OF ALL CONCRETE WALLS AND BEAMS AND ALL SECTIONS REQUIRED TO MAKE CLEAR THE LOCATION OF THE REINFORCING STEEL. SHOW SLAB BAR SUPPORTS ON SHOP DRAWINGS. USE ONLY #5 BARS WITH INDIVIDUAL HIGH CHAIRS FOR THE SUPPORT OFF THE TOP SLAB BARS. ANCHOR ALL TOP BARS BY STANDARD EMBEDMENT OR 90 DEGREE HOOK UNLESS OTHERWISE DETAILED. OVERHANGING TAILS SHALL BE SUPPORTED POSITIVELY.
- PROVIDE FOOTING DOWELS FOR ALL VERTICAL WALL REINFORCEMENT. DOWELS SHALL BE SAME SIZE AND SPACING AS THE VERTICAL WALL REINFORCEMENT, UNLESS NOTED OTHERWISE, WITH LAP SPLICES INDICATED.
- POSITION DOWELS FOR VERTICAL WALL REINFORCEMENT IN COLUMN FOOTINGS AND WALL FOOTING STEPS WITH 6" MAXIMUM BOTTOM COVER.
- PROVIDE CLASS "B" TENSION LAP SPLICES FOR ALL REINFORCEMENT UNLESS OTHERWISE INDICATED.

| CLASS "B" TENSION LAP SPlice SCHEDULE FOR F'c=4,000 PSI | | |
|---|--|------------|
| BAR SIZE | | LAP LENGTH |
| #3 | | 19" |
| #4 | | 25" |
| #5 | | 31" |
| #6 | | 37" |
| #7 | | 54" |
| #8 | | 62" |
| #9 | | 70" |
| #10 | | 79" |

NOTES:

- ALL LAPS ARE FOR 4000 PSI CONCRETE.
- PROVIDE SCHEDULED LAP LENGTHS UNLESS NOTED OTHERWISE ON PLANS.
- INCREASE LAPS BY 30% FOR HORIZONTAL LAP SPLICES WITH MORE THAN 1"4" OF FRESH CONCRETE PLACED BELOW THE LAPPED BARS.

- SPREAD REINFORCING STEEL AROUND OPENINGS AND SLEEVES IN SLABS AND WALLS WHERE POSSIBLE AND WHERE BAR SPACING WILL NOT EXCEED 1.5 TIMES THE NORMAL SPACING. DISCONTINUE BARS AT OPENINGS WHERE NECESSARY AND PROVIDE AN AREA OF REINFORCEMENT EQUAL TO THE INTERRUPTED REINFORCEMENT, IN FULL LENGTH BARS, DISTRIBUTING ONE HALF TO EACH SIDE OF THE OPENING. WHERE TEMPERATURE REINFORCEMENT IS INTERRUPTED, ADD (2) #5 X OPENING DIMENSION + 4'-0" IN THE BOTTOM ON EACH SIDE OF THE OPENING. PROVIDE (2) #5 X 4'-0" DIAGONAL BARS IN BOTH FACES AT EACH CORNER OF OPENINGS LARGER THAN 12" IN ANY DIRECTION.
- CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER WHEN REINFORCEMENT AND EMBED PLACEMENT FOR A POUR IS NEARING COMPLETION SO THAT THE REINFORCING STEEL AND THE INSTALLED ITEMS MAY BE REVIEWED. ALLOW SUFFICIENT TIME FOR THE ENGINEER TO SCHEDULE FIELD TIME AND SETTER TO MAKE ADJUSTMENTS OR CORRECTIONS PRIOR TO STARTING CONCRETING OPERATIONS.
- REINFORCING STEEL EXTENDING BETWEEN SEPARATE CONCRETE POURS SHALL BE CONTINUOUS, DRILLING AND USE OF EPOXY TO DOWEL THESE (CONTINUOUS) BARS IS **NOT** PERMITTED.

FOUNDATION NOTES

- PREPARE ALL AREAS OF THE SITE SUPPORTING STRUCTURE BY REMOVING ALL TOP SOIL, EXISTING FILL, ORGANIC MATERIAL, AND OR FROZEN, WET, SOFT, LOOSE, OR OTHERWISE UNSUITABLE MATERIALS.
- PROOFROLL THE EXPOSED SUBGRADE, WITH A MEDIUM WEIGHT ROLLER, TO DETERMINE IF ANY POCKETS OF SOFT, UNSUITABLE MATERIAL EXIST BENEATH THE EXPOSED SUBGRADE. REMOVE ANY UNSUITABLE MATERIAL ENCOUNTERED AND REPLACE WITH PROPERLY COMPACTED GRANULAR FILL MATERIAL.
- PLACE ALL GRANULAR FILL MATERIAL IN LAYERS (LIFTS) NOT EXCEEDING 6 INCHES IN LOOSE THICKNESS. MECHANICALLY COMPACT EACH LAYER TO AT LEAST THE REQUIRED MINIMUM DRY DENSITY SPECIFIED IN THE SOILS REPORT.
- GRANULAR FILL SHALL BE CRUSHED #53 LIMESTONE OR INDOT #53 GRAVEL
- IN GENERAL PLACE ALL FOOTING IN FORMS. HOWEVER, IF TRENCH POUR OF FOOTINGS IS APPROVED CONTRACTOR MUST ADHERE TO THE FOLLOWING NOTE
- TRENCH POUR FOOTING THE SAME DAY TRENCH IS DUG. IF THIS IS NOT POSSIBLE, ADEQUATELY PROTECT THE EXPOSED MATERIAL IN THE BASES AND SIDE WALLS OF THE TRENCH FROM ANY DETRIMENTAL CHANGE IN CONDITION, SUCH AS FROM DISTURBANCE RAIN, FREEZING OR EQUIPMENT. SURFACE RUNOFF SHALL NOT BE ALLOWED TO ENTER TRENCHES FOR FOOTINGS.
- EXTREME CARE MUST BE TAKEN WHILE EXCAVATING ADJACENT OR CLOSE TO EXISTING FOOTINGS.
- CONSULT WITH GEOTECHNICAL ENGINEER AND STRUCTURAL ENGINEER IF SOILS ARE ENCOUNTERED DURING THE EXCAVATION THAT CAN **NOT** RETAIN A (2) VERTICAL TO (1) HORIZONTAL EXCAVATION SLOPE.
- CONSULT WITH GEOTECHNICAL ENGINEER AND STRUCTURAL ENGINEER IF ANY ADVERSE SOIL CONDITIONS ARE ENCOUNTERED DURING ANY EXCAVATION.
- STOP ALL EXCAVATIONS IF ITEMS IN NOTES 7 AND OR 8 ARE ENCOUNTERED. DO **NOT** PROCEED WITH ANY FURTHER EXCAVATIONS UNTIL THESE ISSUES ARE RESOLVED.

MASONRY NOTES

- DESIGN AND CONSTRUCTION SHALL BE IN COMPLIANCE WITH ACI 530-11 BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES.
- ALL MASONRY UNITS SHALL CONFORM TO ASTM C90 SPECIFICATIONS FOR HOLLOW LOAD BEARING CONCRETE MASONRY UNITS. THESE CONCRETE MASONRY UNITS SHALL BE GRADE N TYPE 1 MOISTURE CONTROLLED UNITS.
- ALL MORTAR USED SHALL BE TYPE M OR S AND SHALL CONFORM TO ASTM C270 MORTAR FOR UNIT MASONRY. TYPE M MORTAR MUST BE USED BELOW GRADE.
- ALL COARSE GROUT FOR BOND BEAMS AND REINFORCED BLOCK CELLS SHALL CONFORM TO ASTM C476 MORTAR AND GROUT FOR REINFORCED MASONRY AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.
- ALL CONCRETE MASONRY UNITS SHALL HAVE A MINIMUM PRISM STRENGTH F 'M = 1,500 PSI.
- ALL MASONRY SHALL BE LAID IN A RUNNING BOND PATTERN (U.N.O.)
- HORIZONTAL JOINT REINFORCEMENT SHALL BE LADDER TYPE AND CONFORM TO THE SPECIFICATIONS FOR COLD-DRAWN STEEL WIRE FOR CONCRETE REINFORCEMENT ASTM A62.
- THE VERTICAL SPACING OF LADDER TYPE FOR HORIZONTAL JOINT REINFORCEMENT SHALL NOT EXCEED 16". CROSS WIRES ON PREFABRICATED JOINT REINFORCEMENT SHALL NOT BE SMALLER THAN NO. 9 GAGE AND LAP MINIMUM OF 12" AT SPLICE LOCATIONS.
- ABOVE ALL LINTELS THE VERTICAL SPACING OF THE HORIZONTAL JOINT REINFORCEMENT SHALL NOT EXCEED 8" FOR (3) COURSES AND SHALL EXTEND A MINIMUM OF 16" BEYOND THE DOOR OR WINDOW JAMB.
- HORIZONTAL JOINT REINFORCEMENT SHALL NOT BE CONTINUOUS THROUGH CONTROL JOINTS.
- BOND BEAMS SHALL BE CONTINUOUS THROUGH CONTROL JOINTS. RAKE MORTAR JOINTS AND CAULK.
- PROVIDE A CONTROL JOINT ON ONE SIDE OF OPENINGS LESS THAN 6 FEET IN WIDTH AND ON BOTH SIDES OF THE OPENINGS 6 FEET AND WIDER.
- THE USE OF OPEN END MASONRY UNITS IS RECOMMENDED TO ACCOMMODATE THE INSTALLATION OF THE VERTICAL REINFORCING STEEL.
- ALL DEFORMED BAR REINFORCING STEEL SHALL BE ASTM A6 15 GRADE 60.
- WHERE VERTICAL BARS ARE TO BE GROUTED INTO CORES THE FOLLOWING REQUIREMENTS APPLY: VERTICAL REINFORCEMENT SHALL BE THE SIZE NOTED ON THE DRAWINGS AND THE CELLS FILLED WITH COURSE GROUT. THE FIRST CELL AT WALL CORNERS, WALL INTERSECTIONS, AND WALL OPENINGS (IE. DOOR AND WINDOW JAMBS, ETC.), BOTH SIDES OF CONTROL JOINTS, AND WALL ENDS SHALL BE REINFORCED WITH BARS(S) IN EACH CELL AND THE CELLS GROUTED FOR THE FULL HEIGHT OF THE WALL. THE NUMBER OF BARS AND BAR SIZE SHALL MATCH THE TYPICAL REINFORCING. REINFORCING BARS SHALL BE CENTERED IN BLOCK CORES (U.N.O.). PROVIDE A SINGLE ROW OF VERTICAL DOWELS FROM THE FOOTING THE SAME SIZE AND SPACING AS THE TYPICAL REINFORCEMENT. WHEN FOUNDATION DOWELS DO NOT ALIGN WITH VERTICAL CORES, THE DOWELS SHALL **NOT** BE SLOPED MORE THAN ONE (1) HORIZONTAL TO SIX (6) VERTICAL FOR REQUIRED ALIGNMENT.
- REINFORCING BAR POSITIONERS SHALL BE USED AT 48" ON CENTER VERTICALLY TO AVOID DISPLACEMENT UNDER GROUT FLUID PRESSURE.
- THE MINIMUM TENSION LAP SPICE ON #5 DEFORMED REINFORCING BARS SHALL BE 31" AND ON #6 DEFORMED REINFORCING BARS 37".
- VERTICAL REINFORCING STEEL SHALL BE CONTINUOUS THROUGH BOND BEAMS (U.N.O.)
- BOND BEAMS SHALL BE PROVIDED OVER OPENINGS AND BELOW ALL JOIST BEARING ELEVATIONS (U.N.O.) TYPICAL BOND BEAMS SHALL BE REINFORCED WITH A MINIMUM OF (2) #5 BARS CONTINUOUS (U.N.O.)
- PROVIDE LINTELS OVER ALL OPENINGS IN MASONRY WALLS. REFER TO STRUCTURAL, ARCHITECTURAL, MECHANICAL, AND OTHER DRAWINGS LOCATION, NUMBER, AND SIZE OF OPENINGS. PROVIDE LINTEL TYPES INDICATED IN SECTIONS OR DETAILS (IE. STEEL, PRE-CAST, MASONRY).
- SET ANCHORS BOTS AND/OR EMBEDS IN BOND BEAMS AFTER COARSE GROUT IS IN PLACE, BUT WHILE COARSE GROUT IS SILL PLASTIC.
- GROUTING OF BOND BEAMS SHALL BE PERFORMED IN ONE CONTINUOUS OPERATION.
- MASONRY CONTRACTOR SHALL FILL ALL STEEL DOOR FRAMES SOLID WITH COARSE GROUT. STEEL DOOR FRAMES SHALL BE BRACED IN SUCH A WAY THAT WILL PREVENT THE PRESSURE FROM THE GROUT FROM DEFORMING THE FRAME MEMBERS. GROUT SHALL BE MIXED TO PROVIDE A 4" MAXIMUM SLUMP CONSISTENCY AND HAND TROWELED INTO PLACE. GROUT MIXED TO A THIN "PUMPABLE" CONSISTENCY SHALL NOT BE USE.
- CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED IN MORTAR OR GROUT.
- METAL TIES AND ANCHORS SHALL BE OF CORROSION RESISTANT METAL OR SHALL BE COATED WITH CORROSION RESISTANT METAL SUCH AS ZINC OR COPPER.
- MASONRY CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO NOT CRACK FLOOR SLAB WITH HEAVY EQUIPMENT OR MATERIAL STORAGE.
- MASONRY CONTRACTOR SHALL PROVIDE A TEMPORARY REINFORCED POLYETHYLENE STRUCTURE IN WHICH TO HEAT THE MASONRY, TO INSURE PROPER CURING OF THE MORTAR. WHEN THE TEMPERATURE IS EXPECTED TO BE NEAR OR BELOW 32 DEGREES FAHRENHEIT DURING THE DAY OR NIGHT THE MASONRY IS LAID. ACCELERATOR ADMIXTURES SHALL NOT BE USED IN THE MORTAR.
- ALL MASONRY SHALL BE THOROUGHLY CLEANED AND APPROVED BY THE PROJECT ENGINEER UPON COMPLETION.
- ALL STEEL LINTELS USED TO SUPPORT MASONRY EXPOSED TO THE EXTERIOR SHALL BE HOT DIPPED GALVANIZED.

STRUCTURAL STEEL NOTES

- DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL COMPLY WITH THE FOURTEENTH EDITION OF AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION INC. "STEEL CONSTRUCTION MANUAL".
- STRUCTURAL STEEL SHAPES, RODS, AND PLATES SHALL BE ASTM A36, Fy = 36 KSI (U.N.O.).
- ALL WIDE FLANGE MEMBERS SHALL BE ASTM A992, Fy = 50 KSI..
- ALL SQUARE AND RECTANGULAR HSS HOLLOW STRUCTURAL SHAPES SHALL BE ASTM A500 GRADE B, Fy = 46 KSI.
- WALL GIRTS "ZEE" AND "CEE" SHAPES SHALL BE ASTM A572 Fy = 50 KSI. STEEL.
- CAST-IN-PLACE ANCHOR BOLTS SHALL BE ASTM F1554 GRADE 36 BOLTS OR ASTM A36 ROD WITH THREADS AT BOTH ENDS AND A PL 3/8" X 3" X 0'-3" WASHER AND NUT ON THE BOTTOM OF THE ROD OR BOLTS WITH OVERSIZED WASHERS OR PLATES
- ALL SHOP AND FIELD WELDS SHALL COMPLY WITH THE CURRENT EDITION OF AWS D1.1 "STRUCTURAL WELDING CODE" AND BE PERFORMED BY CERTIFIED WELDERS. WELDERS MUST BE CERTIFIED FOR TYPE OF WELDS WHICH THEY ARE PERFORMING.
- ELECTRODES FOR WELDING STRUCTURAL STEEL SHALL BE E7018.
- [] INDICATES CHANGE IN STEEL ELEVATION
- ALL BOLTED CONNECTIONS ARE TO BE MADE IN THE FIELD UNLESS NOTED OTHERWISE
- ALL EMBEDDED STEEL IS TO BE MILL FINISH WITH NO PRIMER PAINT UNLESS (U.N.O.)
- ALL WELDS TO BE SHOP WELDS UNLESS INDICATED AS FIELD WELDS ON THE DRAWINGS.
- BOLTED CONNECTIONS SHALL COMPLY WITH AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS"
- ALL HEADED STUDS USED ON EMBEDDED STEEL SHALL BE LOW CARBON STEEL AND COMPLY WITH ASTM A108 GRADES 1010 THROUGH 1020.
- ALL STRUCTURAL STEEL TO RECEIVE ONE COAT OF RED OXIDE OR FABRICATORS STANDARD RUST INHIBITING PRIMER AND ONE COAT FINISH PAINT. TOUCH-UP PAINTING TO BE PERFORMED IN THE FIELD AFTER ERECTION IS COMPLETE. ALL PAINTING SHALL BE PERFORMED IN ACCORDANCE WITH MANUFACTURES SPECIFICATIONS.
- ALL STEEL SHAPES USED FOR MASONRY LINTELS EXPOSED TO THE EXTERIOR SHALL BE HOT DIPPED GALVANIZED (NO PAINT)
- ANY EXPOSED STEEL SURFACES SCRATCHED OR DAMAGED DURING CONSTRUCTION SHALL BE TOUCHED UP UPON COMPLETION OF CONSTRUCTION.

STEEL JOISTS

- THE DESIGN, FABRICATION AND ERECT OF STEEL JOISTS SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS LOAD TABLES AND WEIGHT TABLES FOR STEEL JOISTS PUBLISHED BY THE STEEL JOIST INSTITUTE.
- NO CONSTRUCTION LOADS SHALL BE PLACED ON JOISTS UNTIL BRIDGING IS INSTALLED AND BEARING CONNECTIONS HAVE BEEN WELDED OR BOLTED.
- ERECTION-TACK WELD EACH END OF THE JOISTS ON THE SAME SIDE OF THE SHOE. THEN PERFORM ANY ALIGNMENT NECESSARY DURING THE INSTALLATION OF BRIDGING. AFTER INSTALLATION OF BRIDGING COMPLETE THE WELDING OR BOLTING ATTACHMENT OF THE BEARING SEAT TO THE SUPPORTS.
- HORIZONTAL BRIDGING 1 1/4 X 1 1/4 X 7/64 ANGLE NOTED ON PLAN AS -----
- BRACE JOISTS IN END BAYS TO PREVENT LATERAL DISPLACEMENT DURING INSTALLATION OF THE BRIDGING.
- PLACE TAGGED END OF JOISTS WHERE INDICATED ON PLAN BY -T-.
- JOIST CHORDS ARE NOT DESIGNED FOR CONCENTRATED LOADS. CONCENTRATED LOADS MUST BE PLACED AT PANEL POINTS OR AN EXTRA MEMBERS FIELD WELDED FROM THE POINT OF LOAD TO THE NEAREST PANEL POINT.
- ALL JOISTS ARE TO BE CAMBERED IN ACCORDANCE WITH STEEL JOISTS INSTITUTE STANDARDS.
- ROOF JOISTS SHALL BE SPACED AT A MAXIMUM OF 5' ON CENTER.
- K-SERIES JOISTS SHALL START A MAXIMUM OF 4" OFF OF INSIDE WALL.
- ALL FIELD WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS.

STEEL ROOF DECK

- THE DESIGN, FABRICATION AND ERECTION OF THE STEEL ROOF SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE SDI SPECIFICATIONS AND COMMENTARY FOR STEEL ROOF AND THE SDI DIAPHRAGM DESIGN MANUAL.
- THE STEEL ROOF DECK SHALL BE ERECTED WITH END LAPS OCCURRING ON JOISTS OR BEAMS. MINIMUM END LAP SHALL BE 3" FOR STEEL ROOF DECK.
- THE STEEL ROOF DECK FUNCTIONS AS A DIAPHRAGM. HENCE, THE ROOF DECK IS A STRUCTURAL ELEMENT IN RESISTING LATERAL LOADS AND PROVIDE OVERALL STABILITY FOR THE BUILDING. THEREFORE, TEMPORARY BRACING OF STRUCTURAL STEEL FRAMES AND MASONRY WALLS IS REQUIRED UNTIL ALL STEEL ROOF DECK IS COMPLETELY WELDED IN PLACE.
- ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS IN ACCORDANCE WITH AWD D1.3 SPECIFICATIONS. WELDING ELECTRODES SHALL BE E6022. (HOBART #1139, 5/32" DIA. WELDING ELECTRODES MEET THIS REQUIREMENT.)
- ALL STEEL ROOF DECK SHALL BE GALVANIZED 1 1/2" DEEP X 20 GAGE WIDE RIB DECK. ALL DECK WELDS SHALL BE PAINTED WITH ZINC RICH PAINT PRIOR TO ROOFING.
- ALL STEEL ROOF DECK SHALL BE ATTACHED TO SUPPORTS AND ADJACENT SHEETS AS INDICATED ON DRAWINGS. IF STEEL ROOF DECK ATTACHMENT DETAILS AND OR FASTENING REQUIREMENTS ARE NOT SHOWN ON DRAWINGS THE DECK SHALL BE ANCHORED TO THE STRUCTURE TO MEET THE MINIMUM FASTENING REQUIREMENTS CALLED FOR IN THE SDI SPECIFICATIONS.
- DECK SUPPLIER SHALL INCLUDE ANY MISCELLANEOUS CLOSURE PIECES, STEEL SCREEDS, ROOF CURBS, SUMP PANS, REINFORCING AROUND OPENINGS, ETC. REQUIRED TO MAKE A COMPLETE JOB. ALL MISCELLANEOUS ITEMS SHALL BE GALVANIZED AND NOT LESS THAN 14 GAGE.

Winchester High School Classroom Building Addition

700 N Union Street

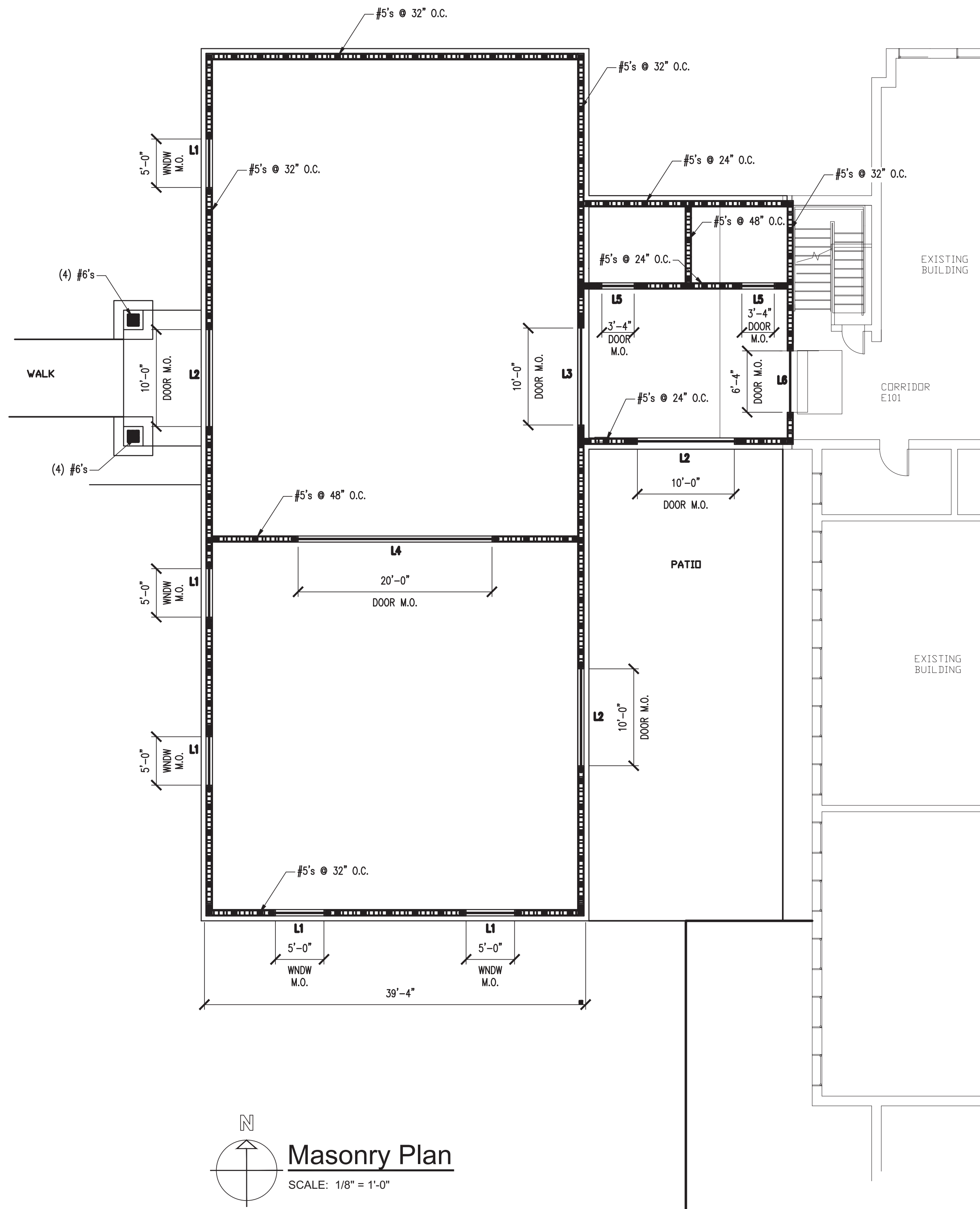
Winchester, Indiana 47394

General Notes

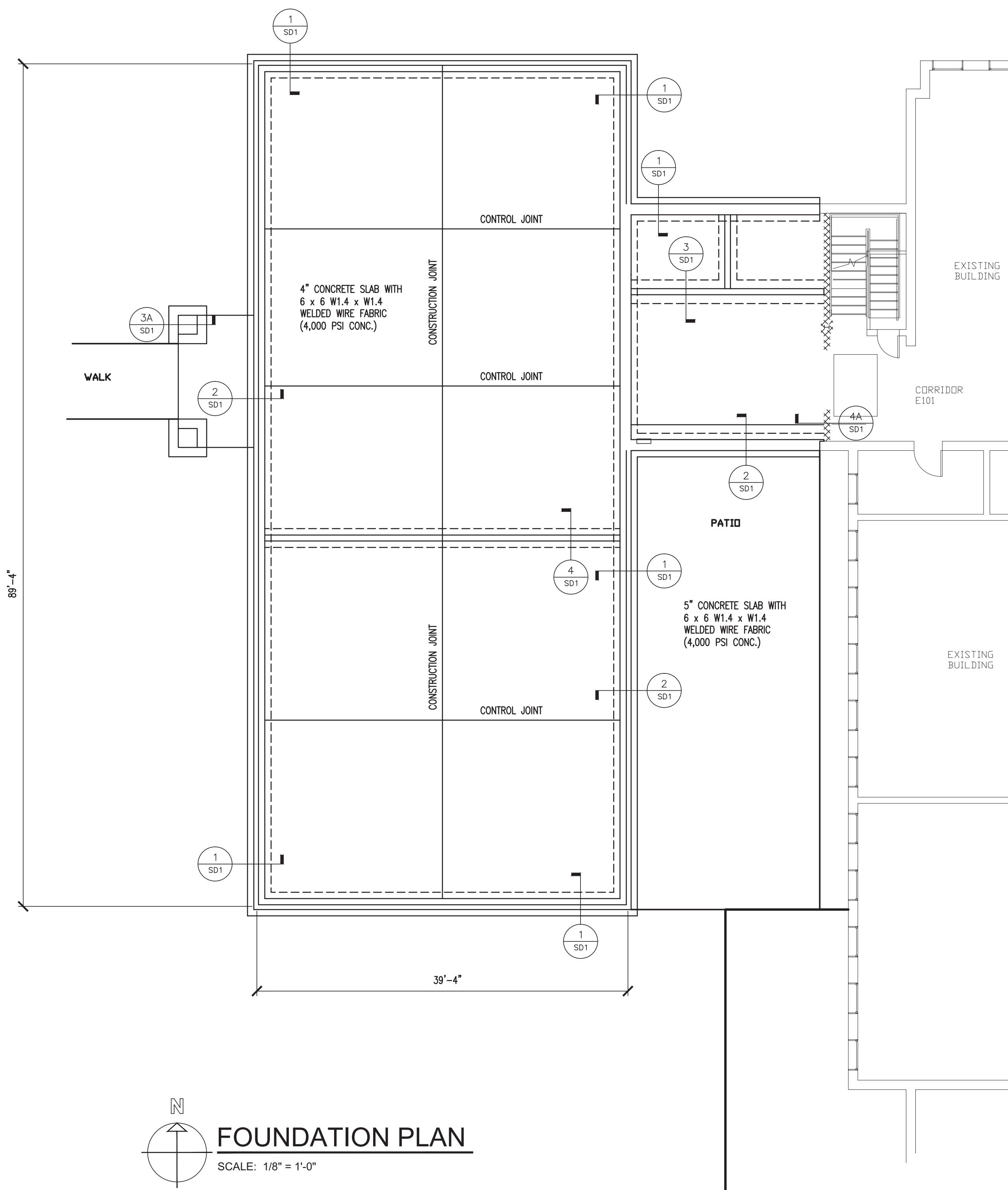
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| DATE | December 2023 | HPH NO. | 23-1772 |
| COORD | TKO | | |
| DRAWN | TKO | | |
| CHECKED | TKO | | |

G1

| LINTEL SCHEDULE | |
|-----------------|--|
| MARK | DESCRIPTION |
| L1 | W8x10 WITH PL 3/8" x 13 1/2" WITH (2) 3/8" GUSSET PLATES |
| L2 | W8x28 WITH PL 3/8" x 13 1/2" WITH (3) 3/8" GUSSET PLATES |
| L3 | W8x28 WITH PL 3/8" x 7 1/2" |
| L4 | W16x31 WITH PL 3/8" x 7 1/2" |
| L5 | W8x10 WITH PL 3/8" x 7 1/2" |
| L6 | W8x10 WITH PL 3/8" x 7 1/2" |



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



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

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Timothy K. O'Rourke

REVISIONS:



Winchester High School Classroom Building Addition

700 N Union Street

Winchester, Indiana 47394
 Foundation and Masonry Plans

| | | | |
|---------|-------------------|------------|---------|
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S1

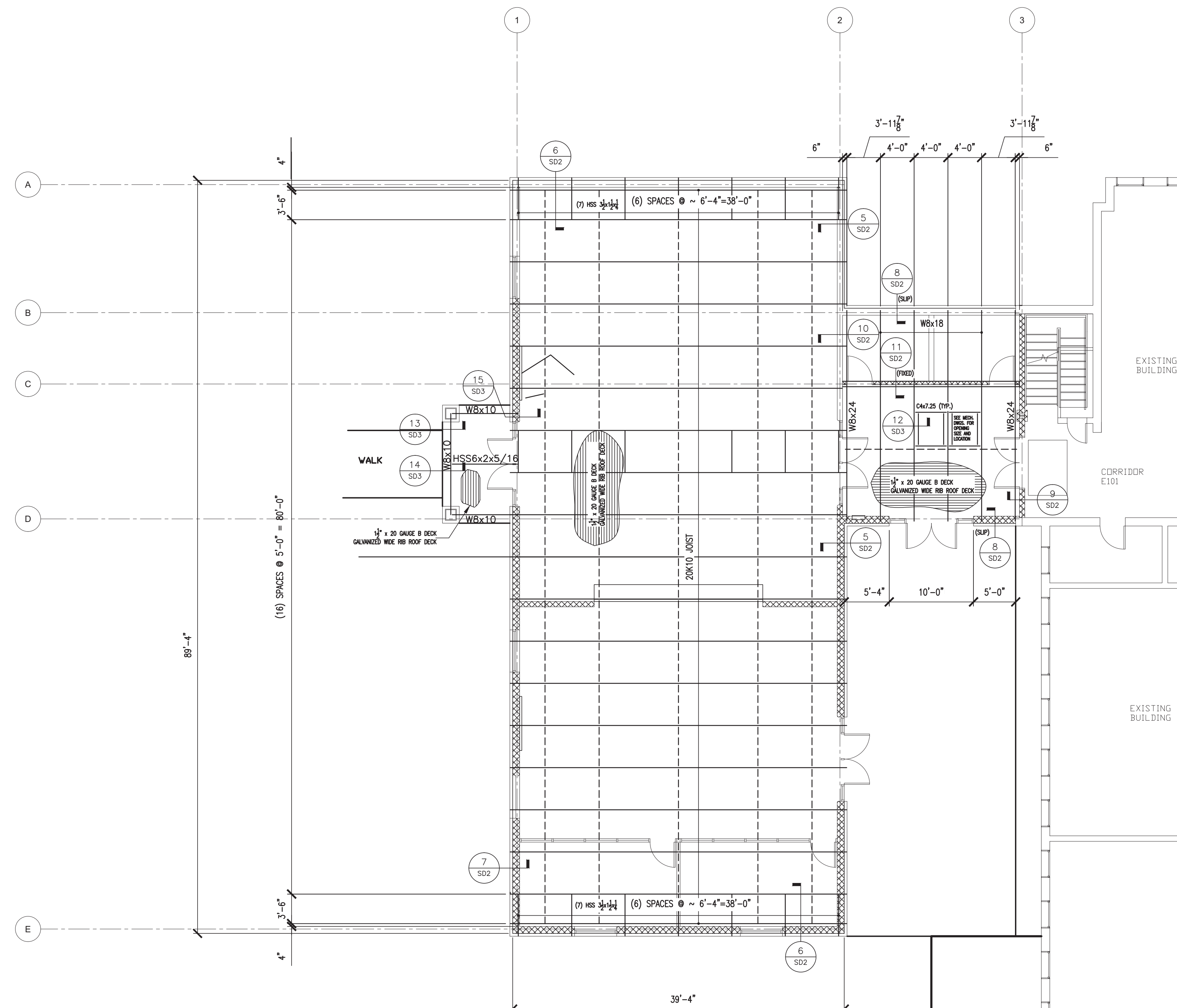
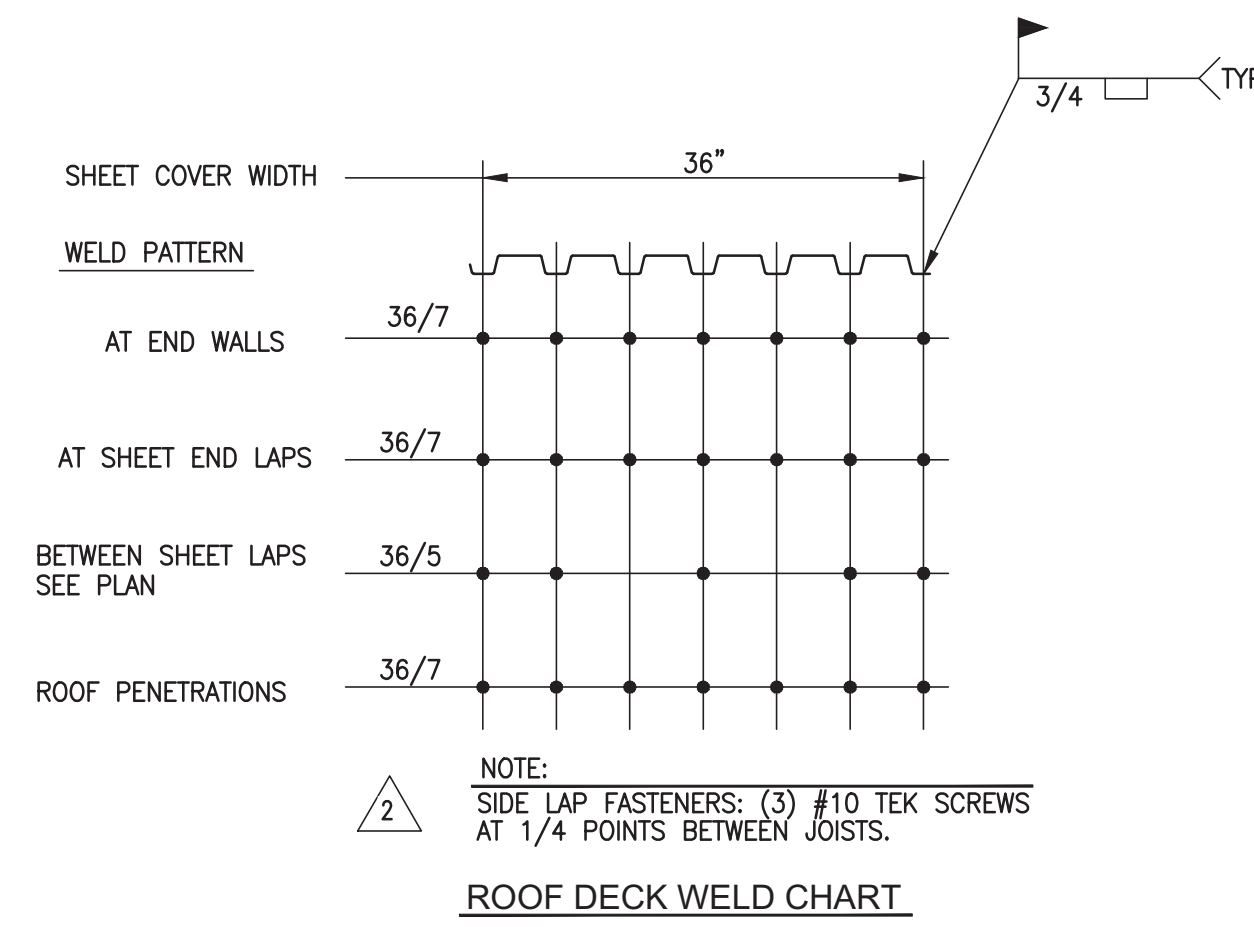
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REVISIONS:



STRUCTURAL FRAMING PLAN ROOF
 SCALE: 1/8" = 1'-0"
 ----- INDICATES HORIZONTAL BRIDGING L1 1/2 x 1 1/2 x 7/8 ANGLE

Winchester High School Classroom Building Addition

700 N Union Street

Winchester, Indiana 47394
Structural Framing Plan

| | | | |
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| SCALE | 1/8"=1'-0" (1=96) | CLIENT NO. | |
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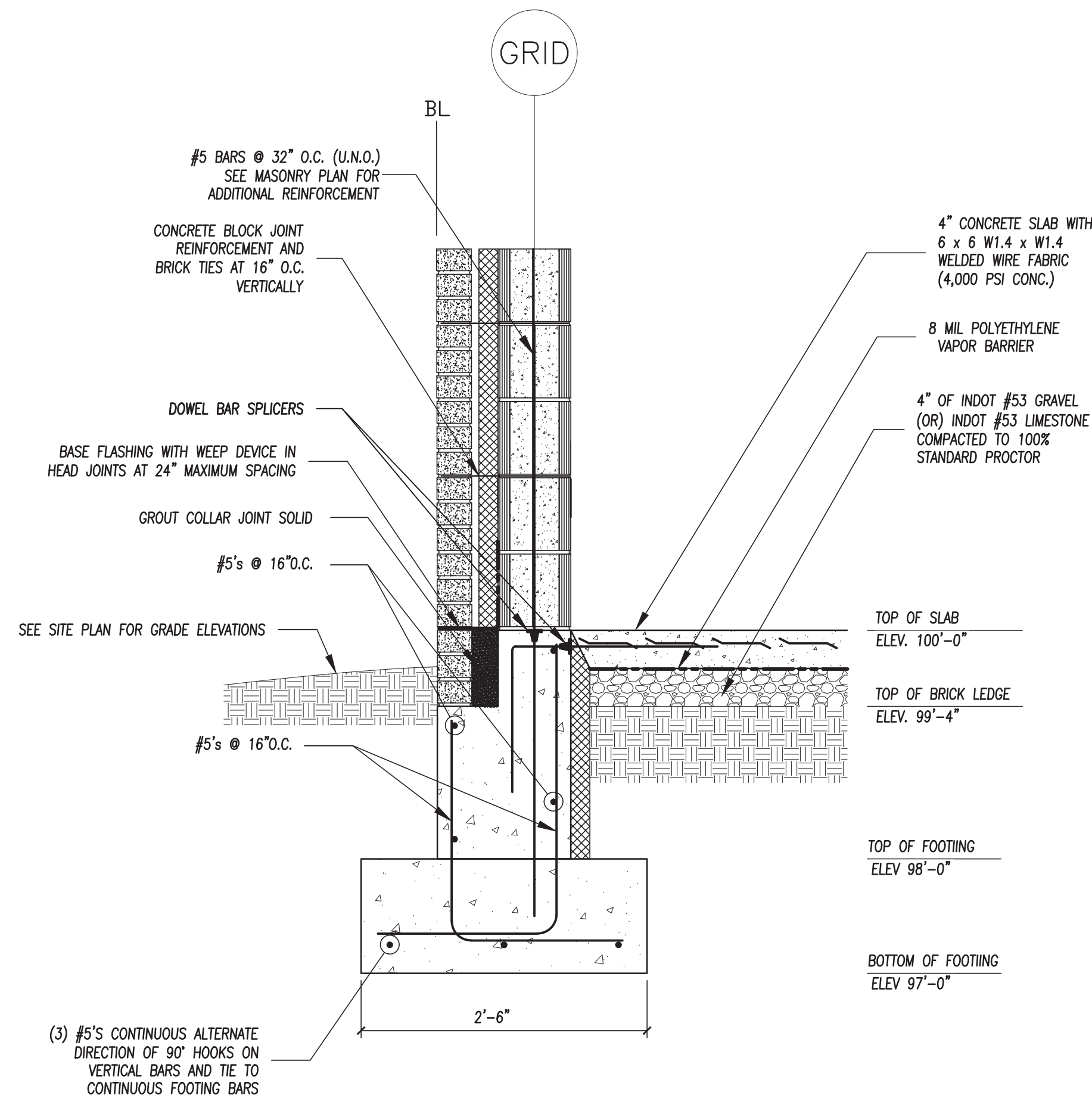
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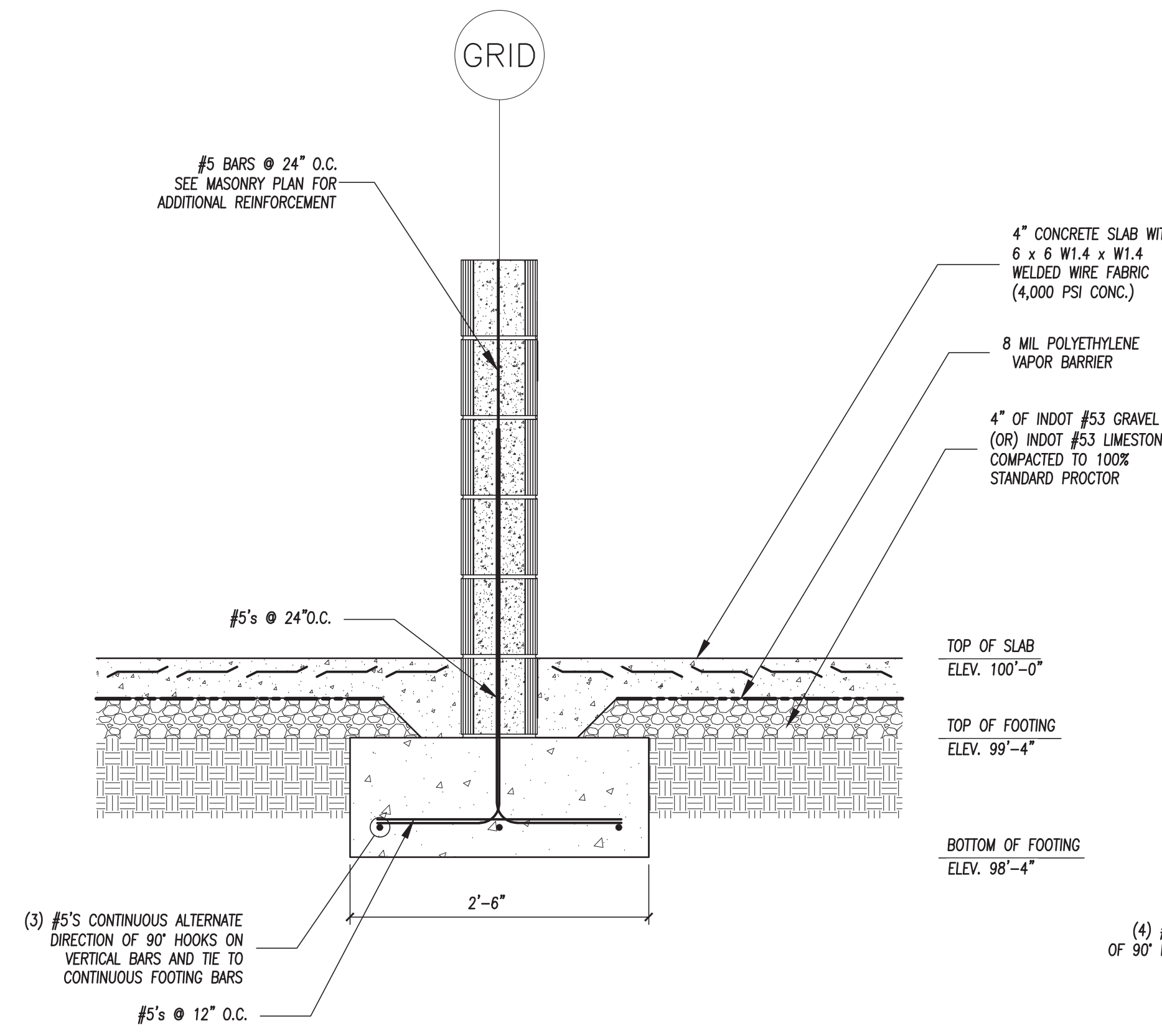


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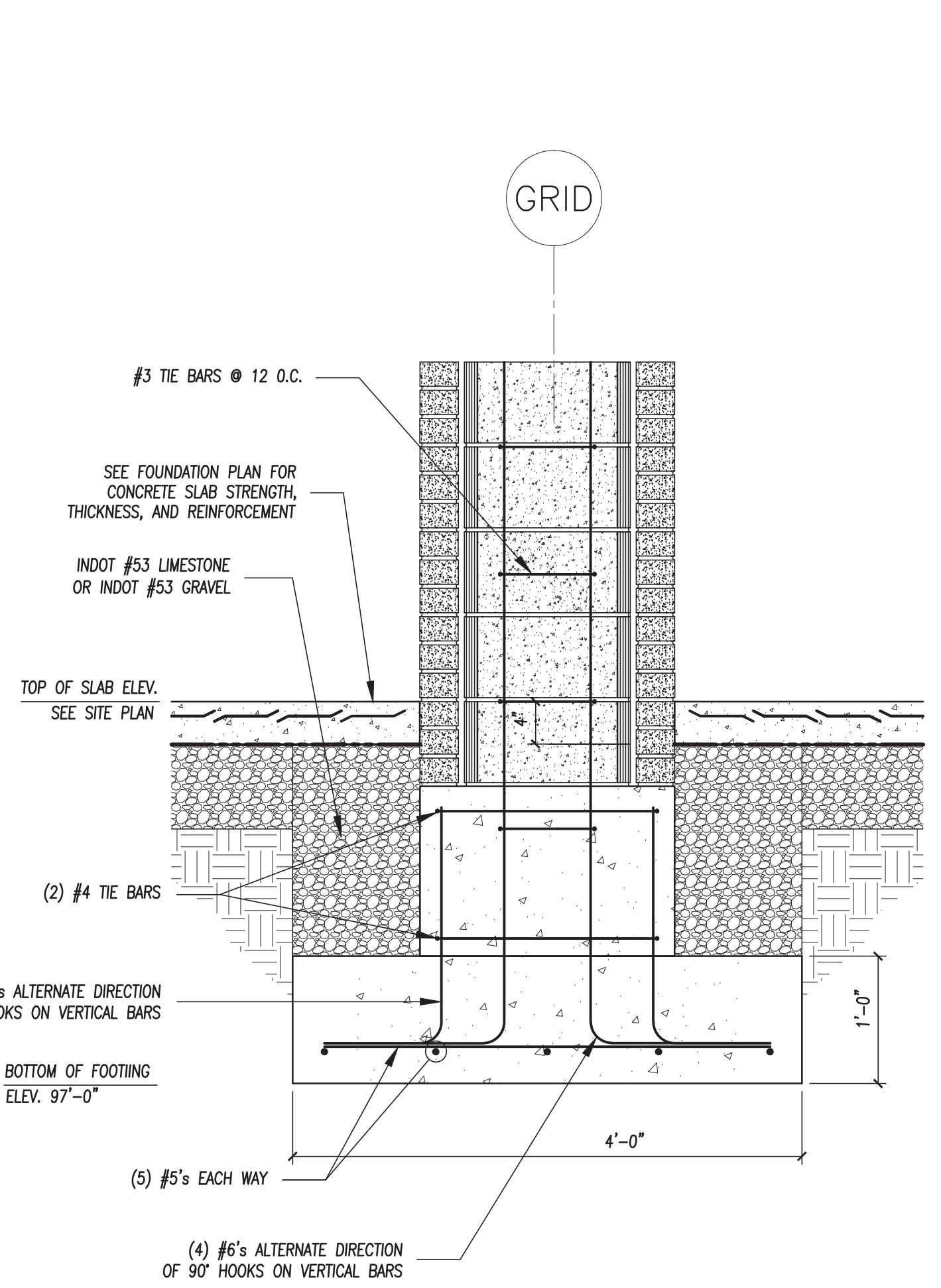
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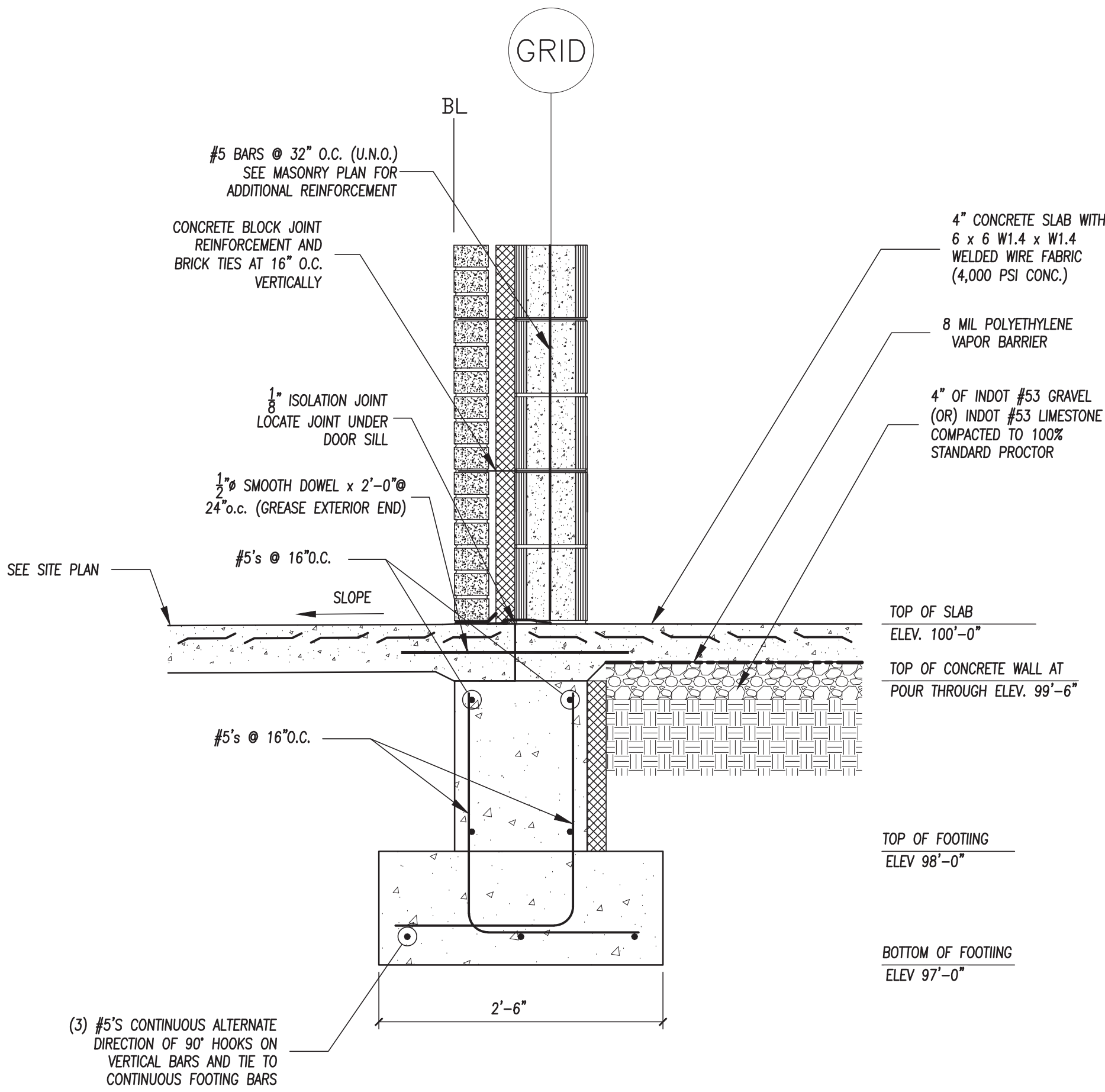
1 FOUNDATION WALL
 SD1 SCALE: 1"=1'-0"



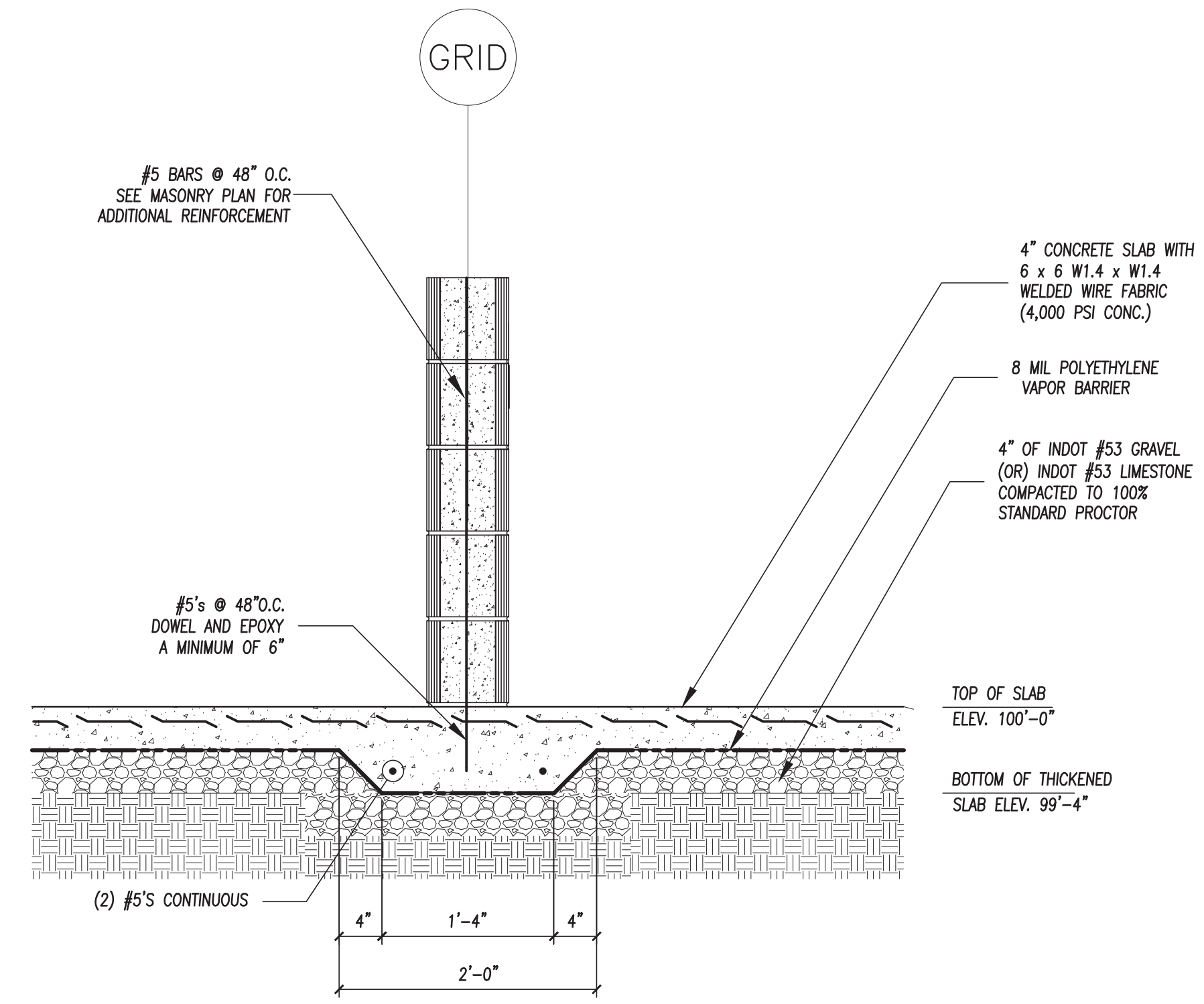
3 INTERIOR BEARING WALL FOOTING
 SD1 SCALE: 1"=1'-0"



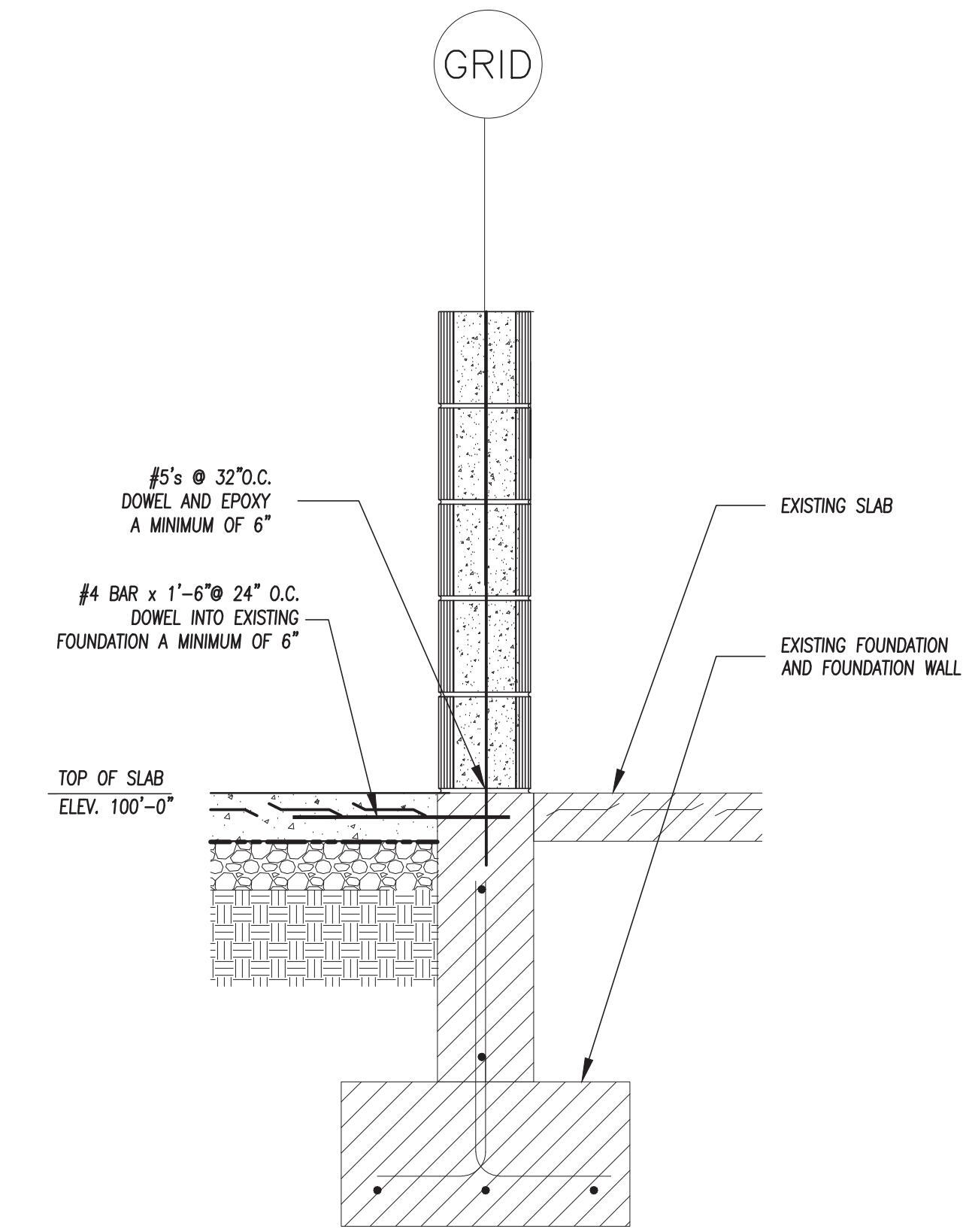
3A CANOPY MASONRY COLUMN & FOOTING
 SD1 SCALE: 1"=1'-0"



2 DOOR POUR THROUGH
 SD1 SCALE: 1"=1'-0"



4 INTERIOR BEARING WALL FOOTING
 SD1 SCALE: 1"=1'-0"



4A EXISTING FOOTING
 SD1 SCALE: 1"=1'-0"

Winchester High School Classroom Building Addition

700 N Union Street

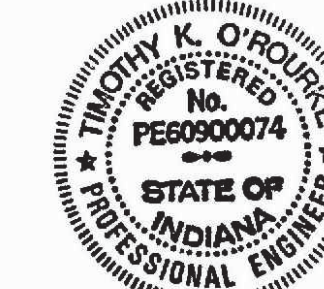
Winchester, Indiana 47394
 Foundation Details

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SD1

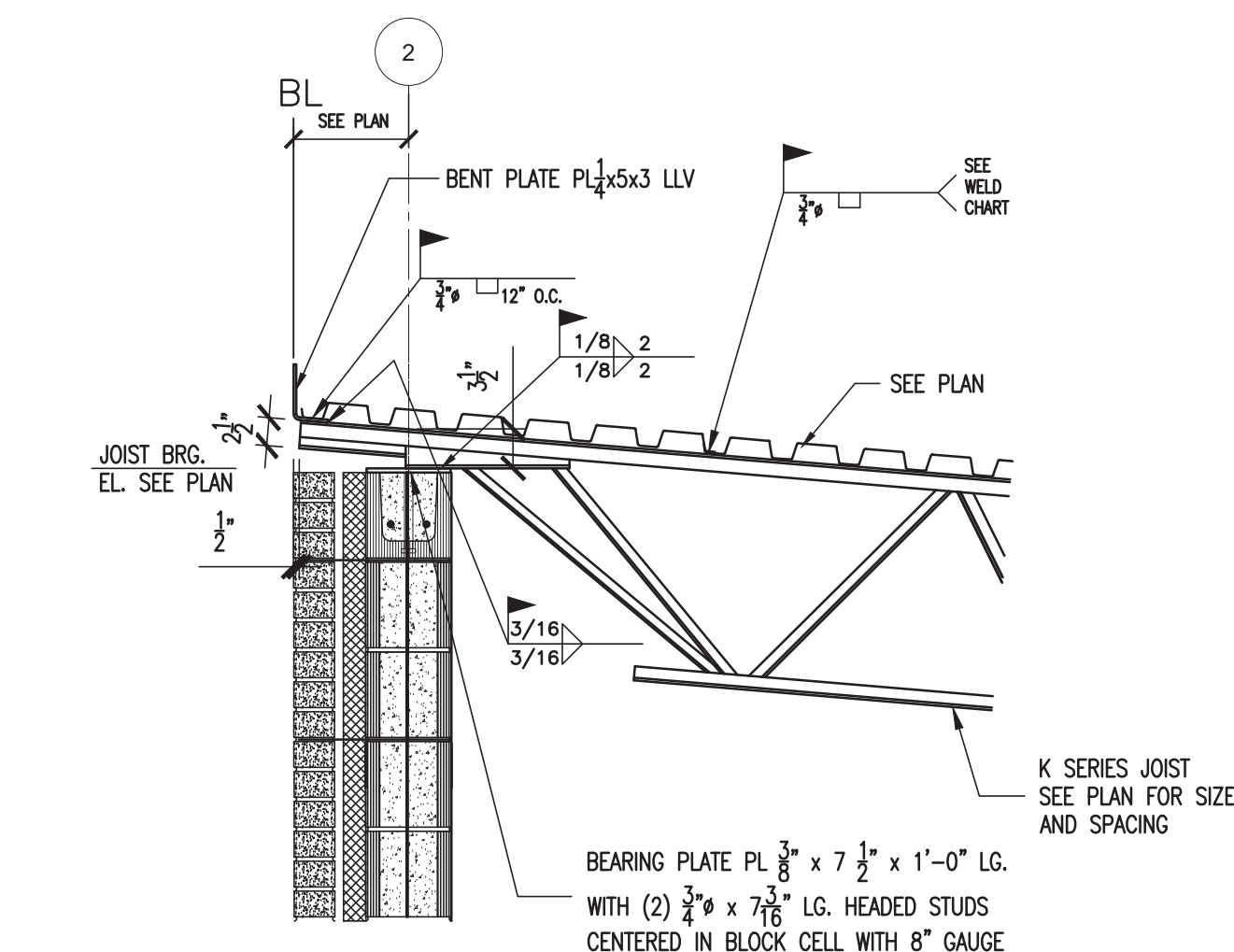
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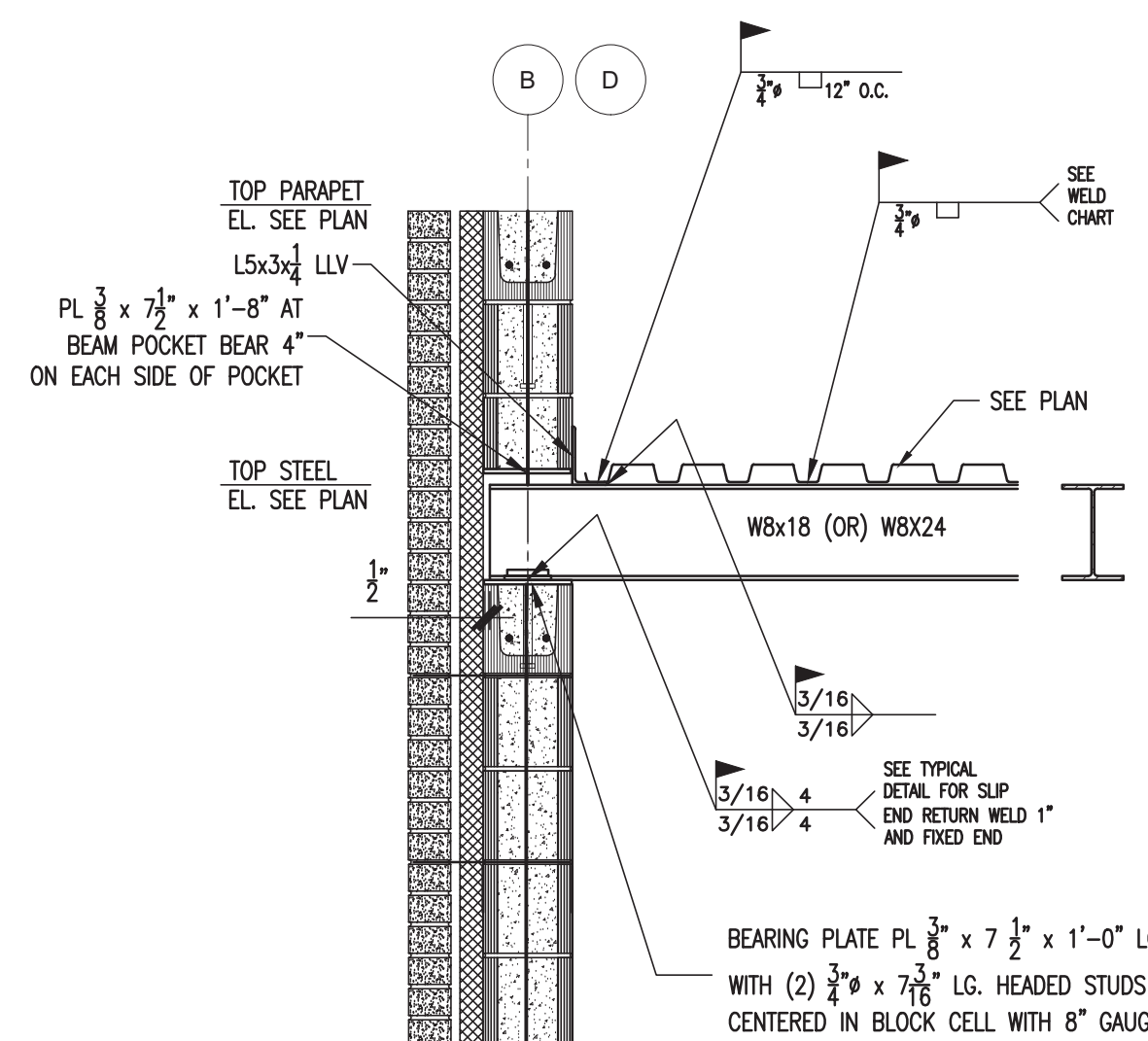


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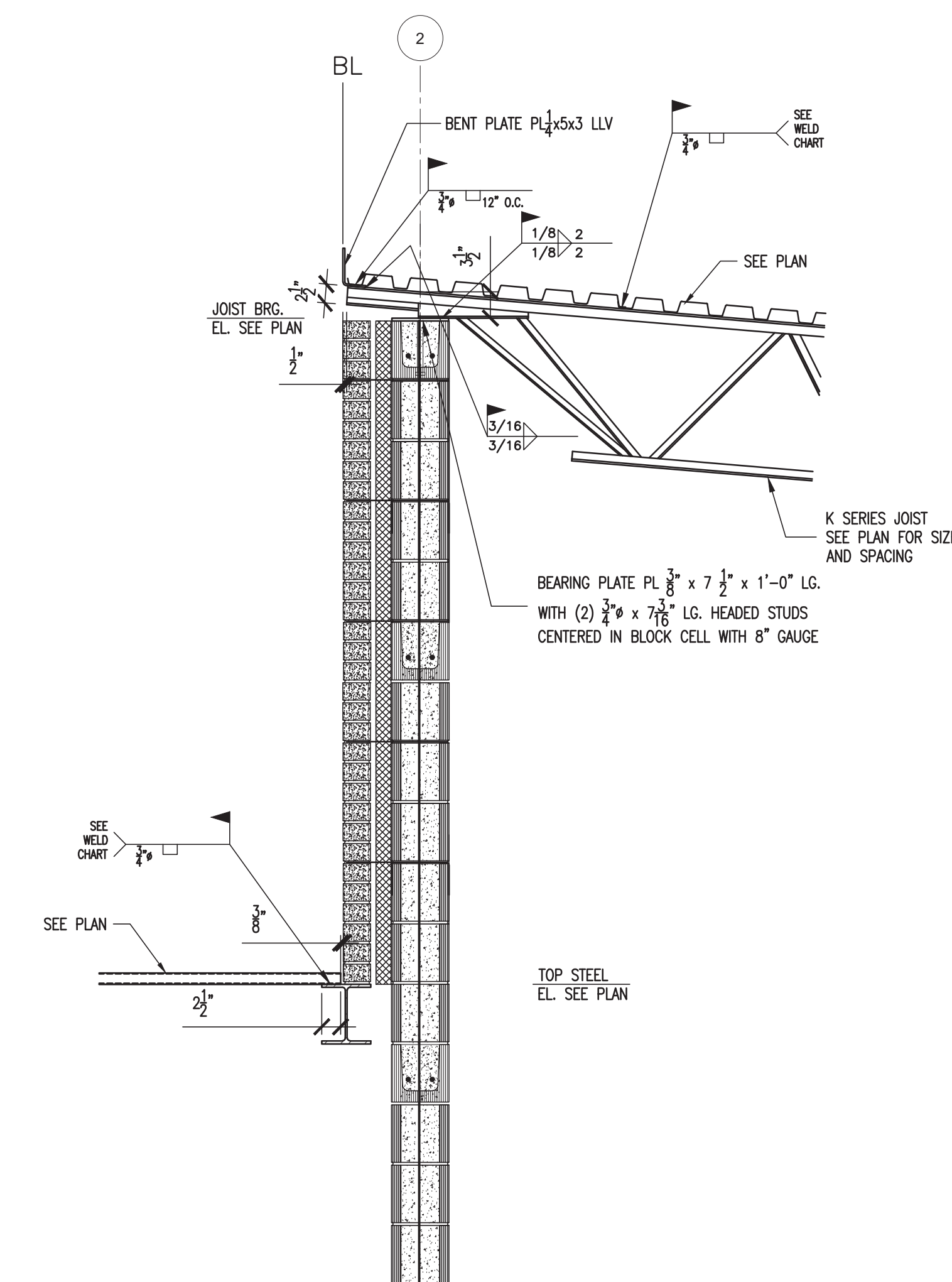
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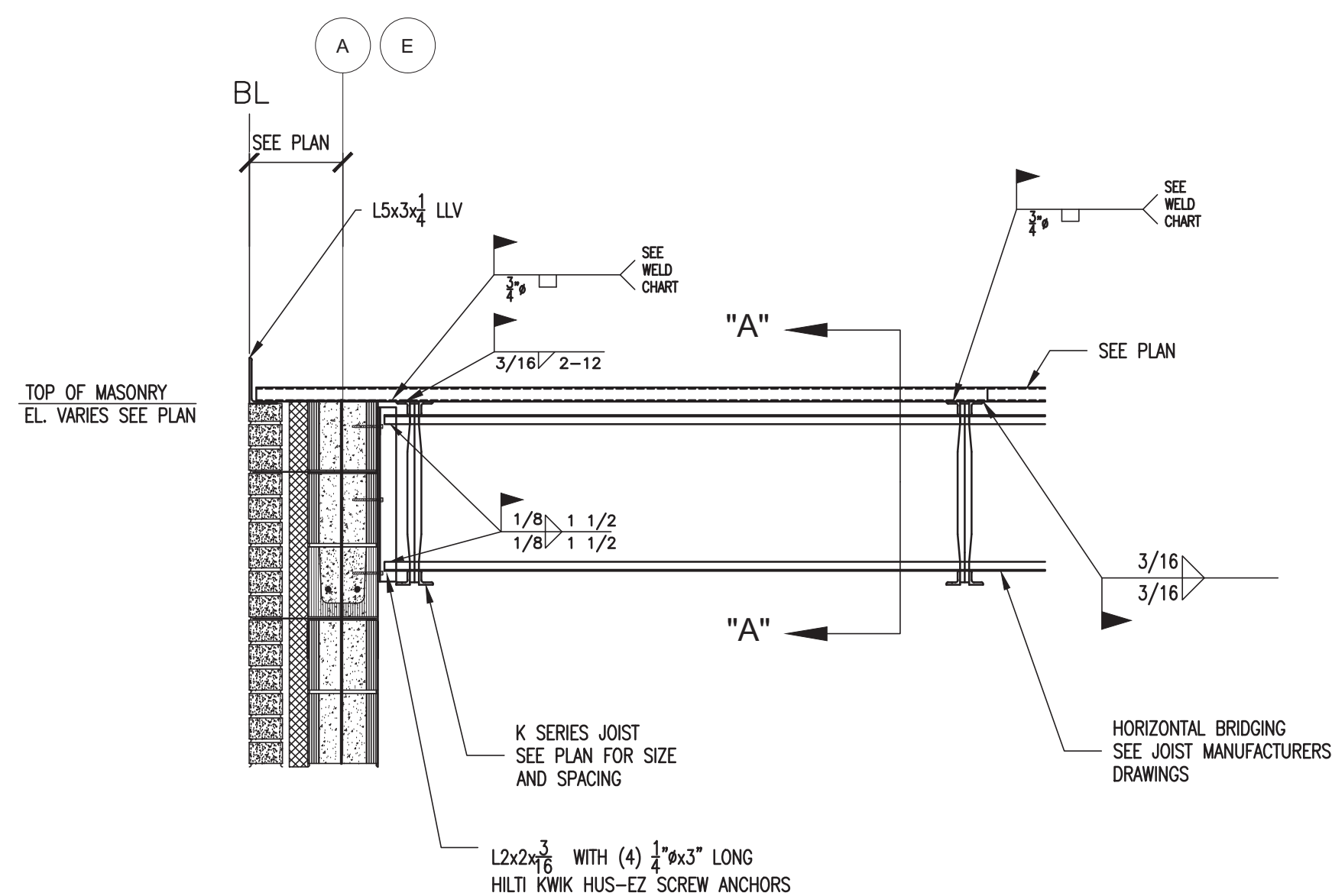
5 FRAMING DETAIL
 SD2 SCALE: 3/4" = 1'-0"



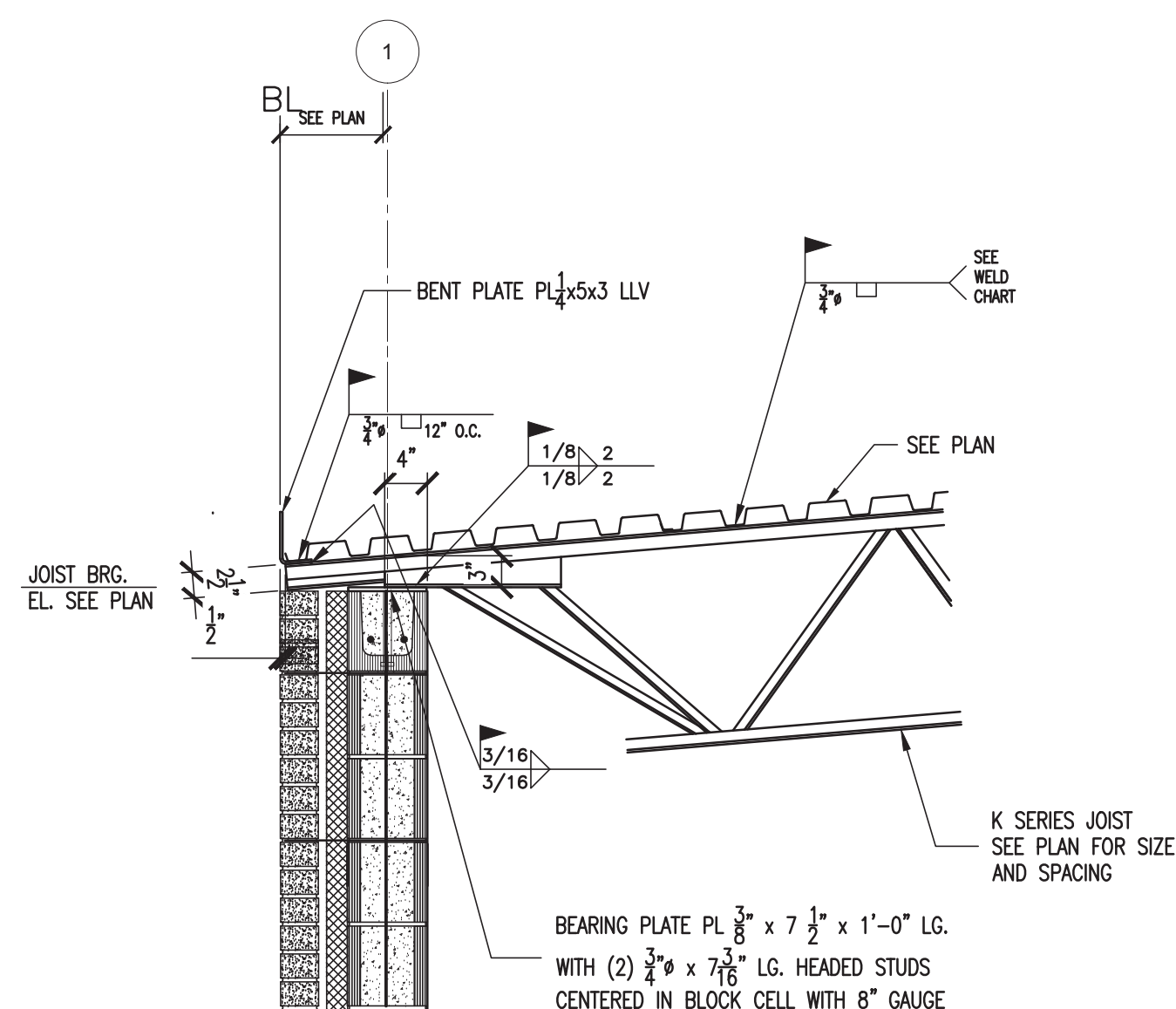
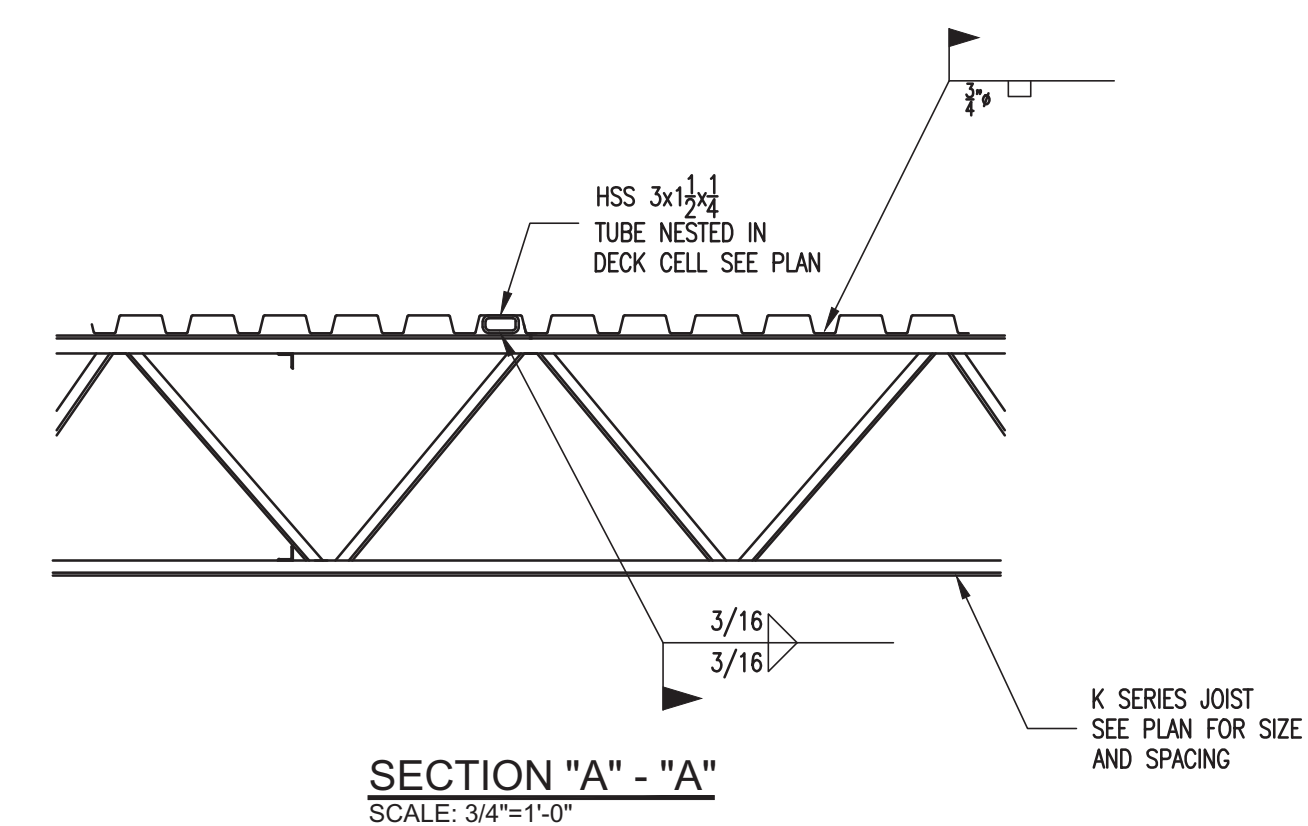
8 FRAMING DETAIL (SLIP END)
 SD2 SCALE: 3/4" = 1'-0"



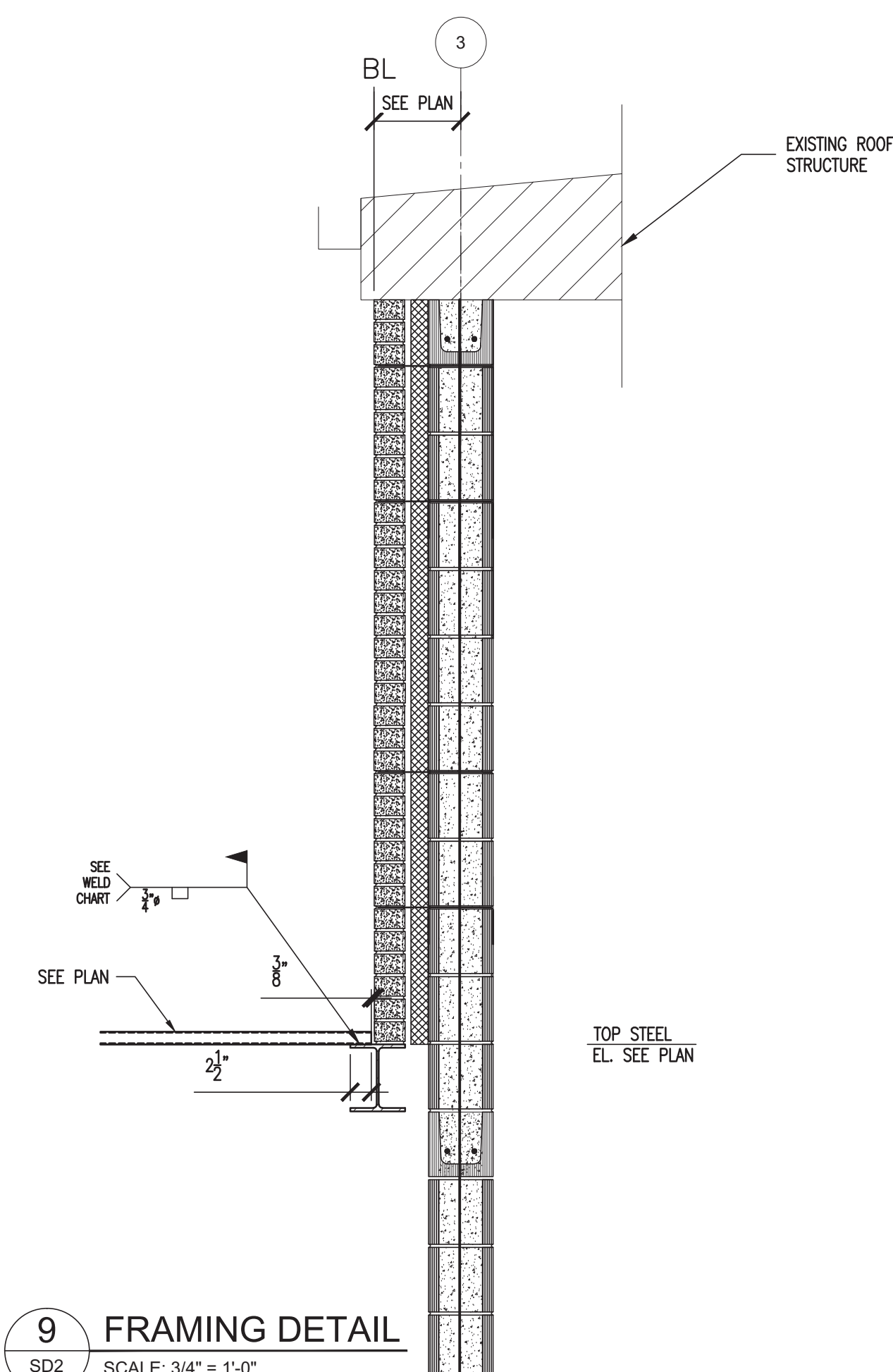
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 SD2 SCALE: 3/4" = 1'-0"



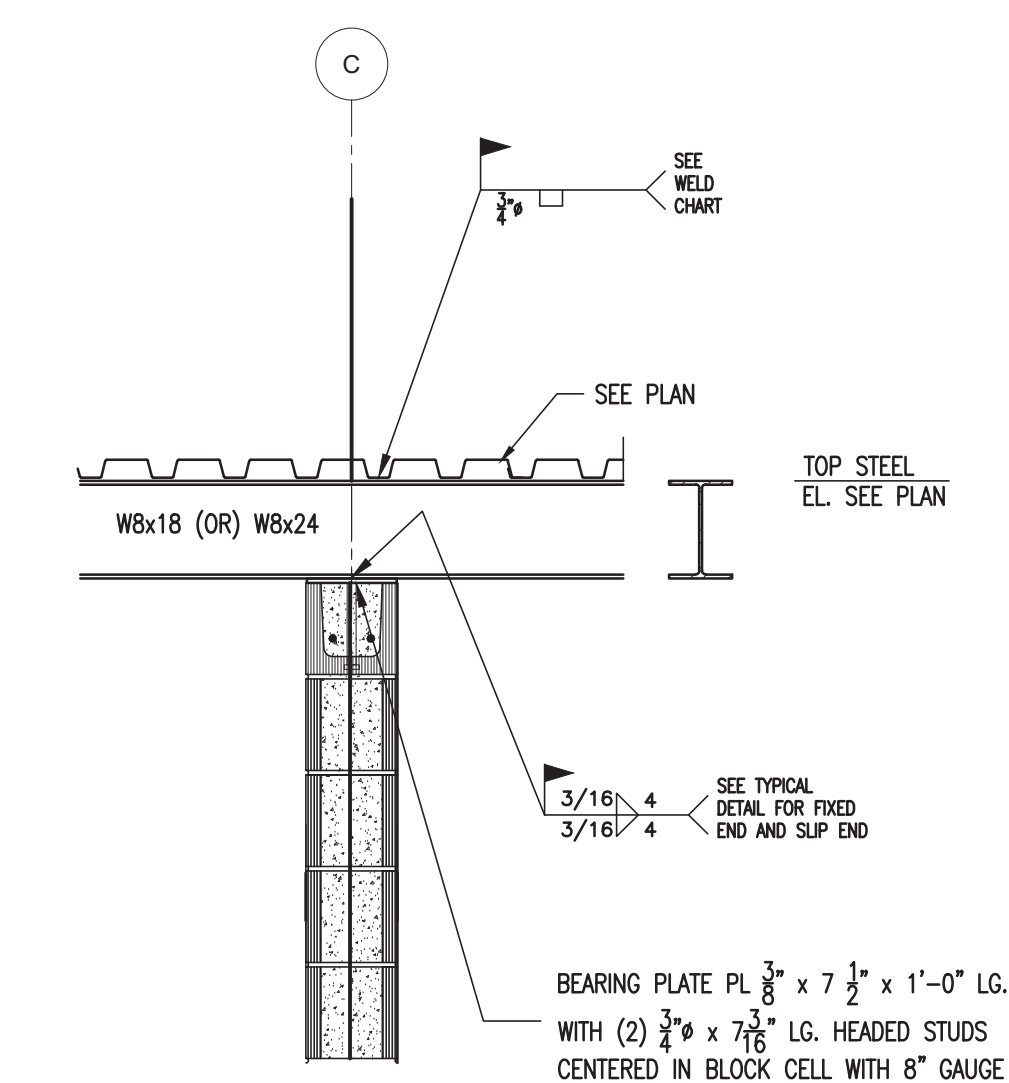
6 FRAMING DETAIL
 SD2 SCALE: 3/4" = 1'-0"



7 FRAMING DETAIL
 SD2 SCALE: 3/4" = 1'-0"



9 FRAMING DETAIL
 SD2 SCALE: 3/4" = 1'-0"



11 FRAMING DETAIL (FIXED END)
 SD2 SCALE: 3/4" = 1'-0"

Winchester High School Classroom Building Addition

700 N Union Street

Winchester, Indiana 47394
Framing Details

| | | | |
|---------|-------------------|------------|---------|
| SCALE | 3/4"=1'-0" (1=16) | CLIENT NO. | |
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SD2

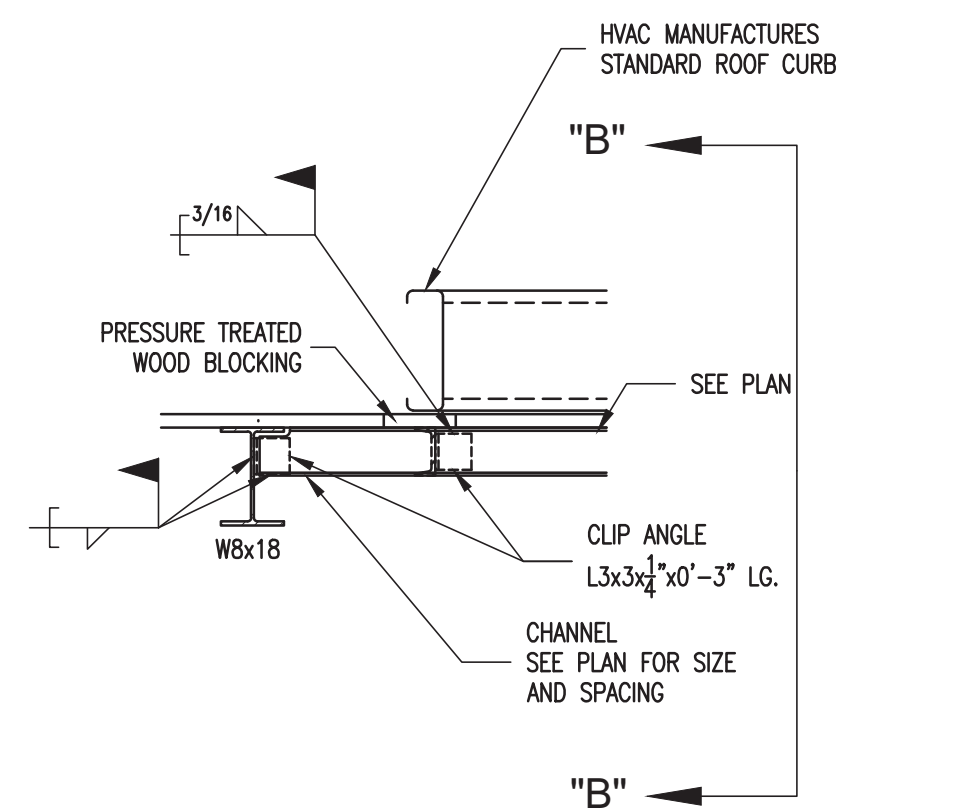
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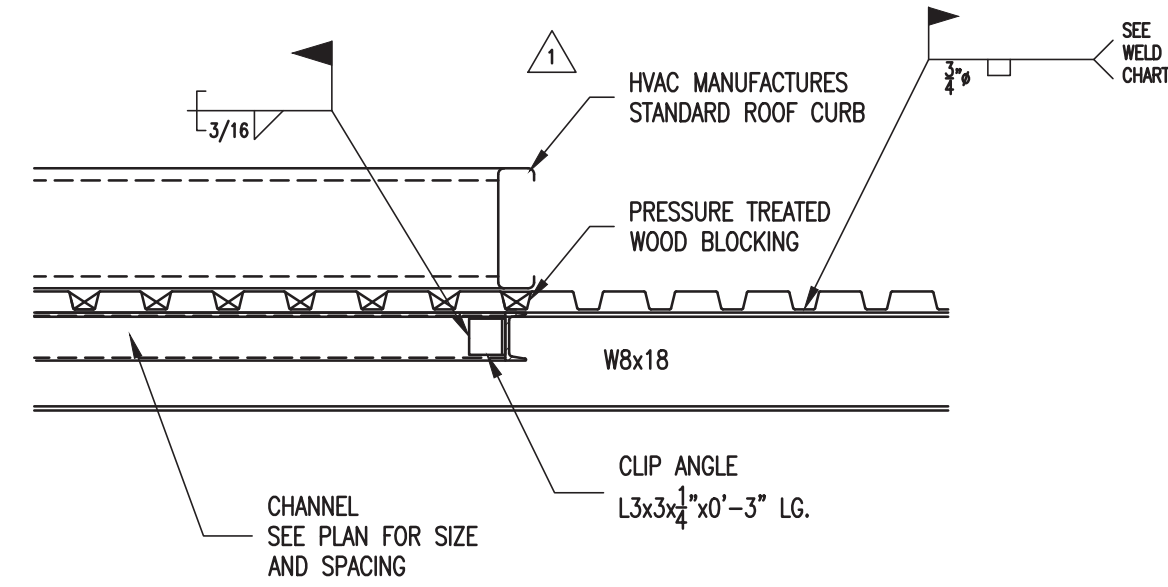


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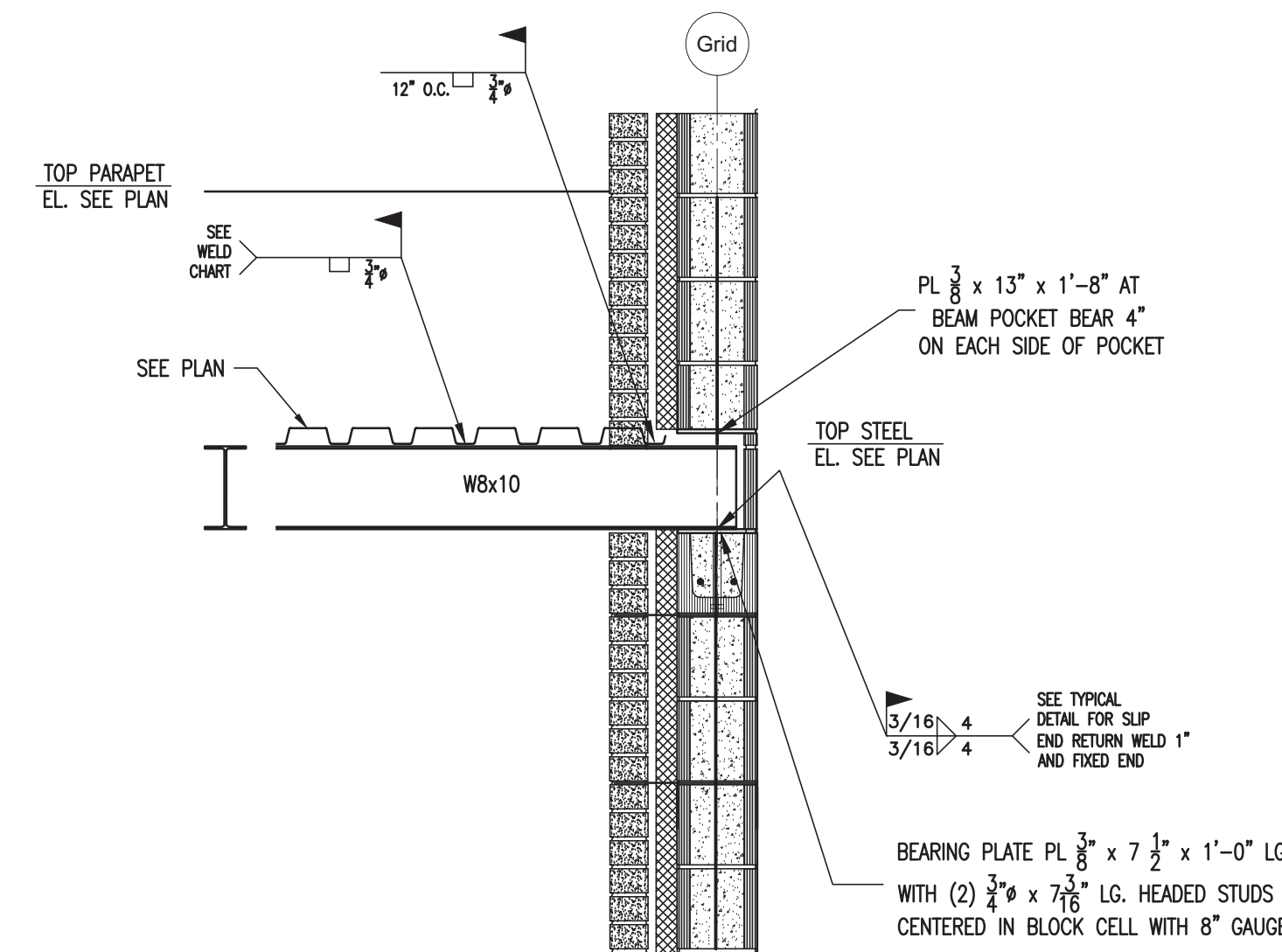
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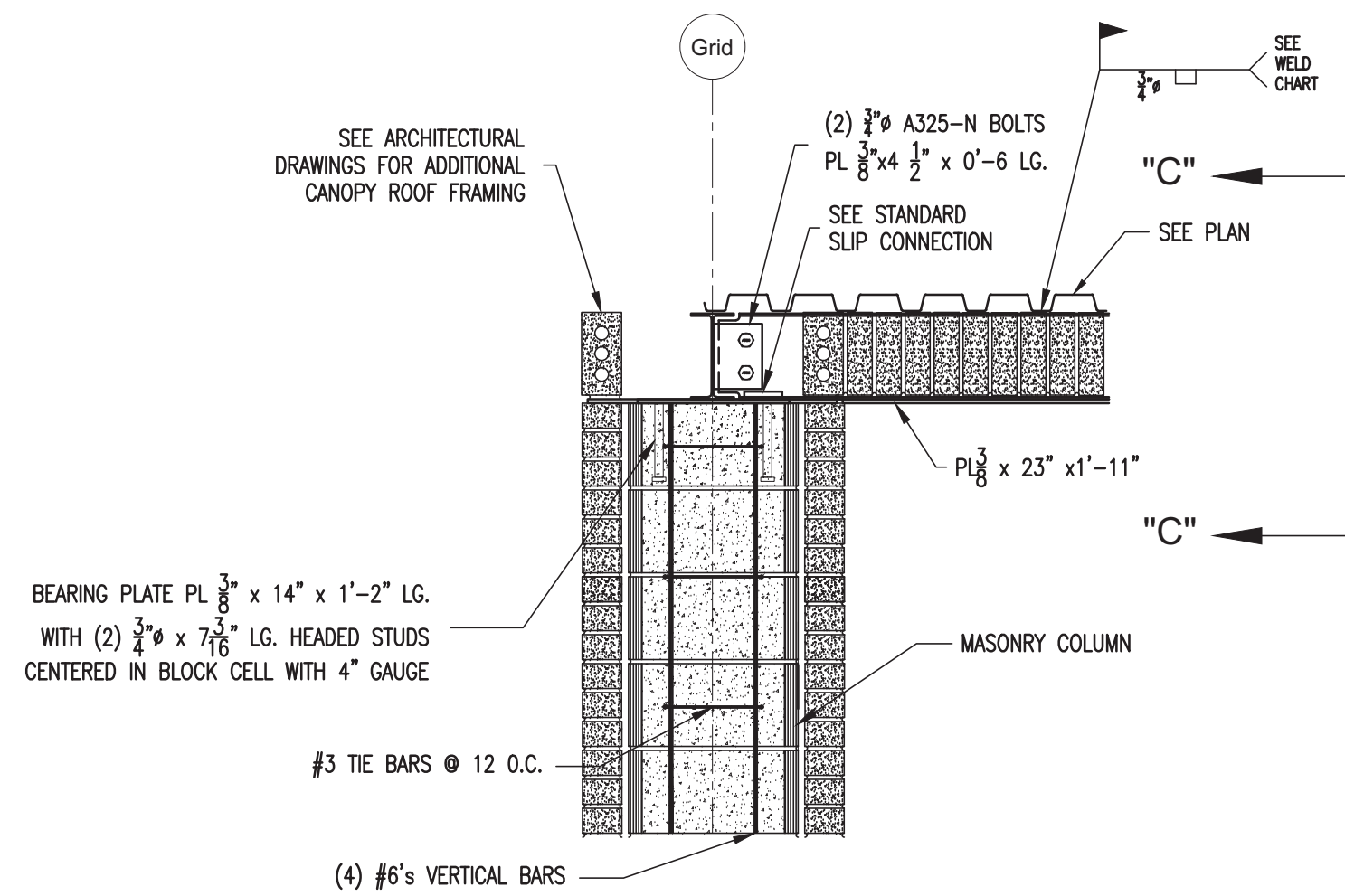
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 SD3 SCALE: 3/4" = 1'-0"



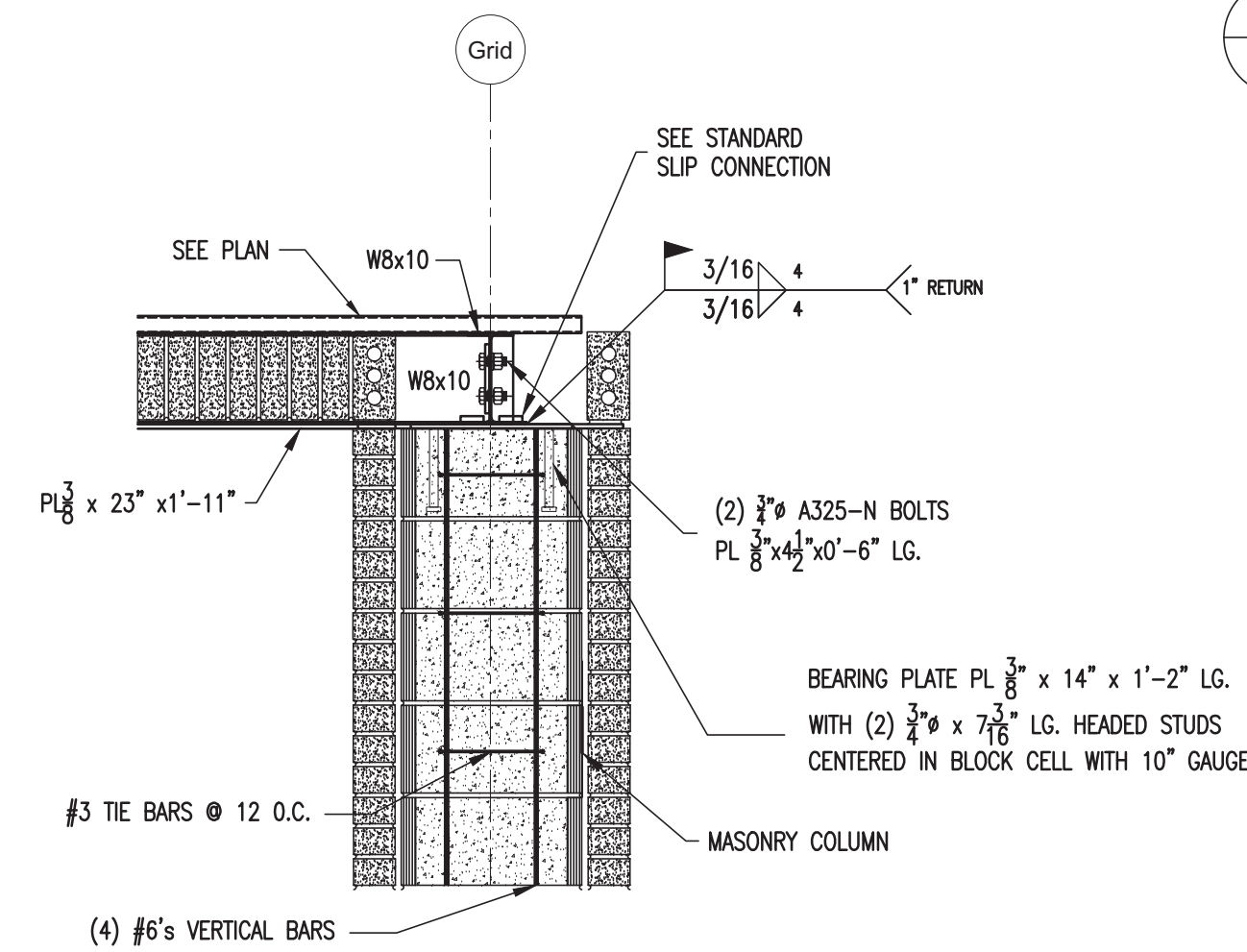
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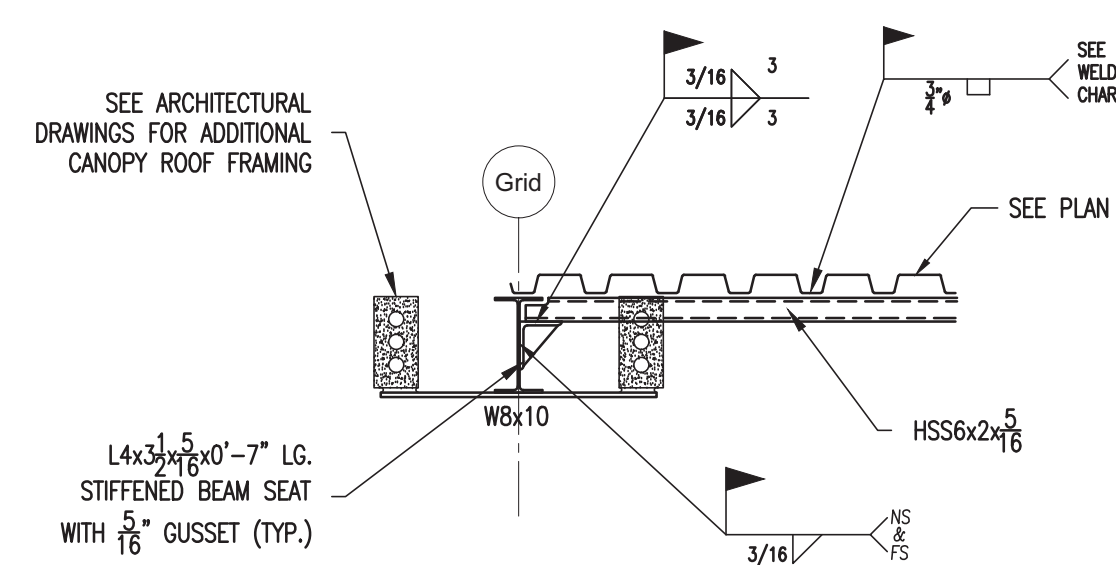
15 FRAMING DETAIL (FIXED END)
 SD3 SCALE: 3/4" = 1'-0"



13 FRAMING DETAIL
 SD3 SCALE: 3/4" = 1'-0"



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



14 FRAMING DETAIL
 SD3 SCALE: 3/4" = 1'-0"

Winchester High School Classroom Building Addition

700 N Union Street

Winchester, Indiana 47394
Framing Details

| | | | |
|---------|-------------------|------------|---------|
| SCALE | 3/4"=1'-0" (1=16) | CLIENT NO. | |
| DATE | December 2023 | HPH NO. | 23-1772 |
| COORD | TKO | | |
| DRAWN | TKO | | |
| CHECKED | TKO | | |

SD3

HPH & ASSOCIATES, INC

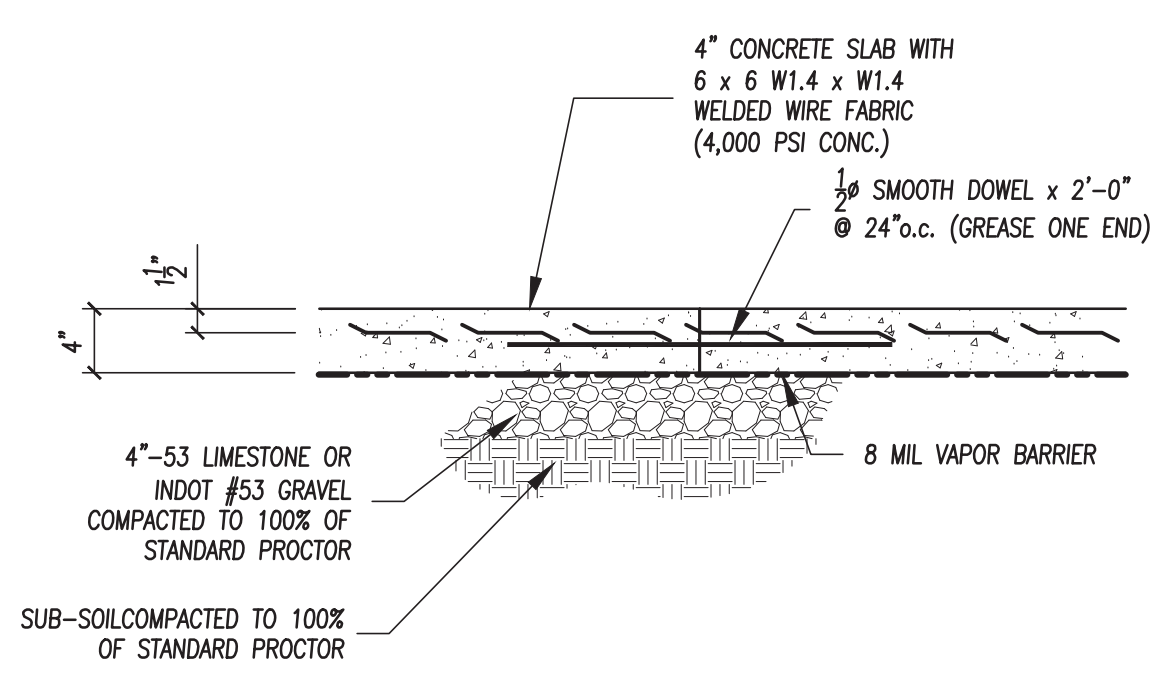
440 ARIENS AVE. - SUITE 2
 CONNERSVILLE, INDIANA 47331-1151
 ph. 765-825-7454 fax. 765-825-4633
 email. hphengr@gmail.com



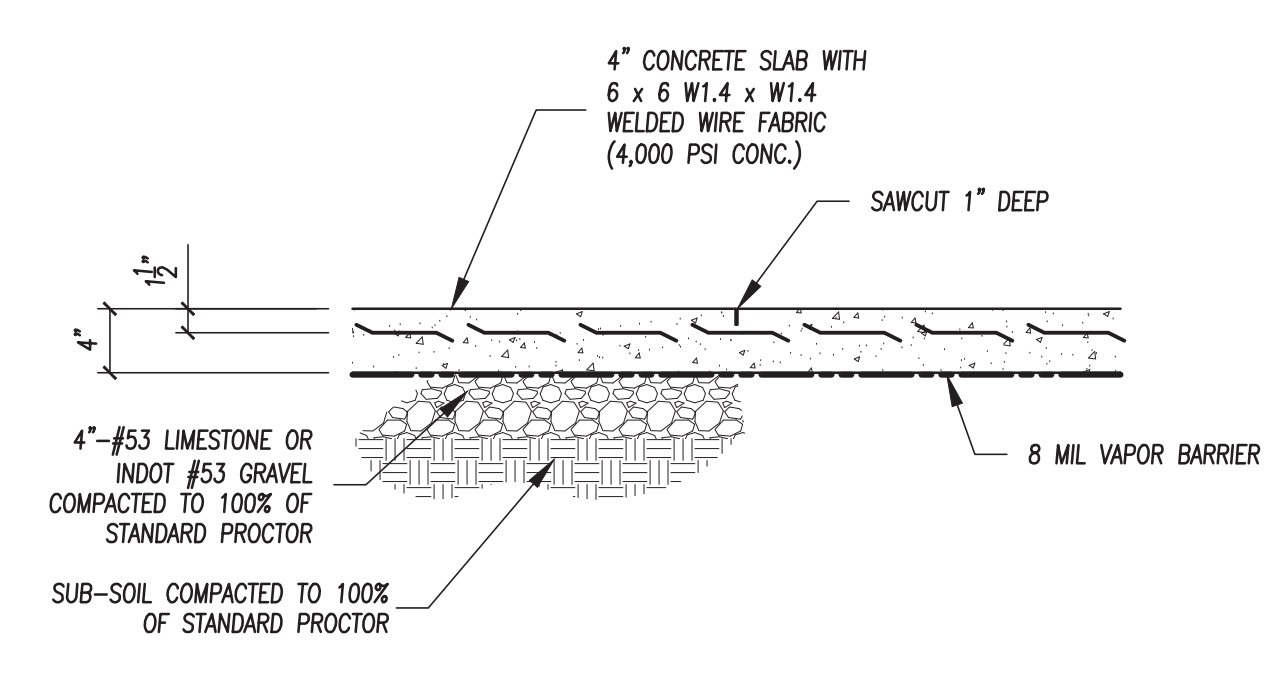
Timothy K. O'Rourke

REVISIONS:

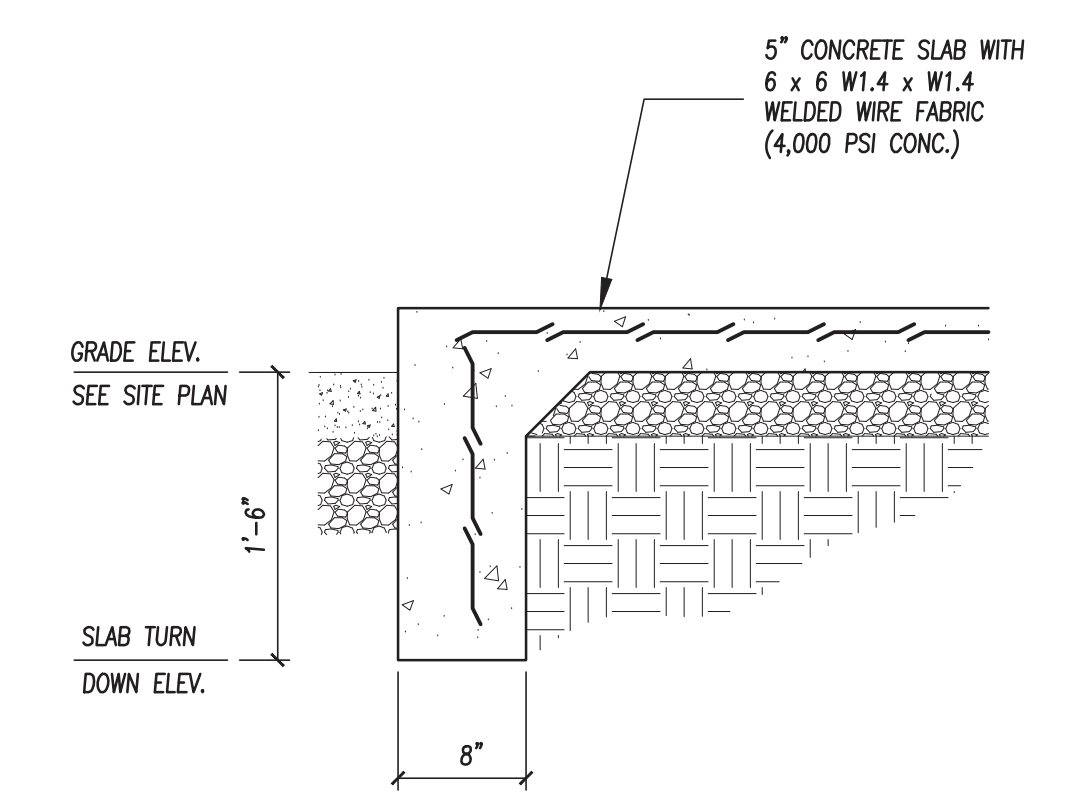
Maze Design, Inc.
 2601 National Road West
 Richmond, IN 47374
 (765) 962-1300
 E-Mail: di@mazedesigninc.



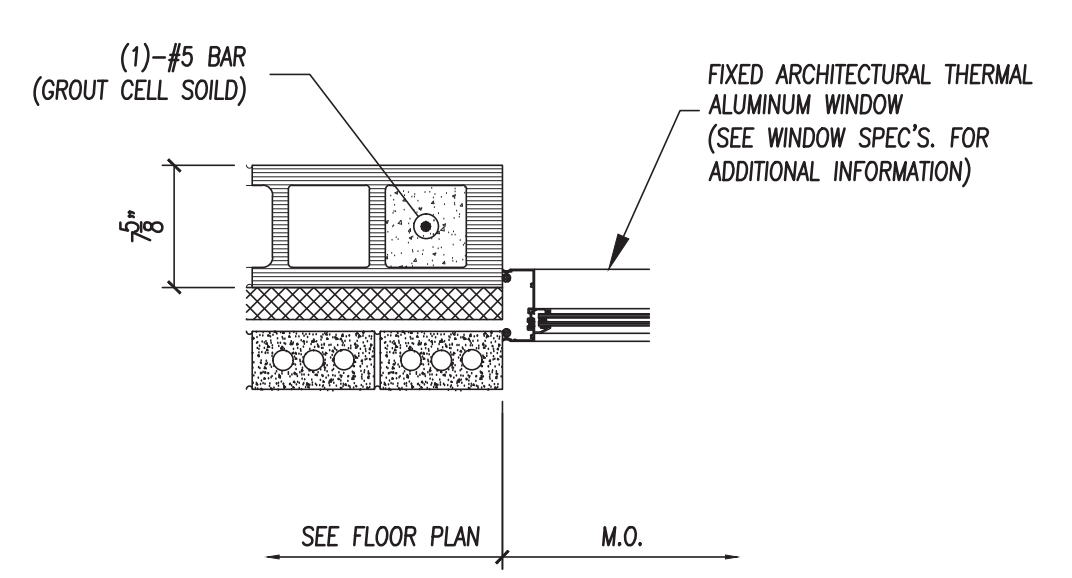
TYPICAL 4 " SLAB CONSTRUCTION JOINT



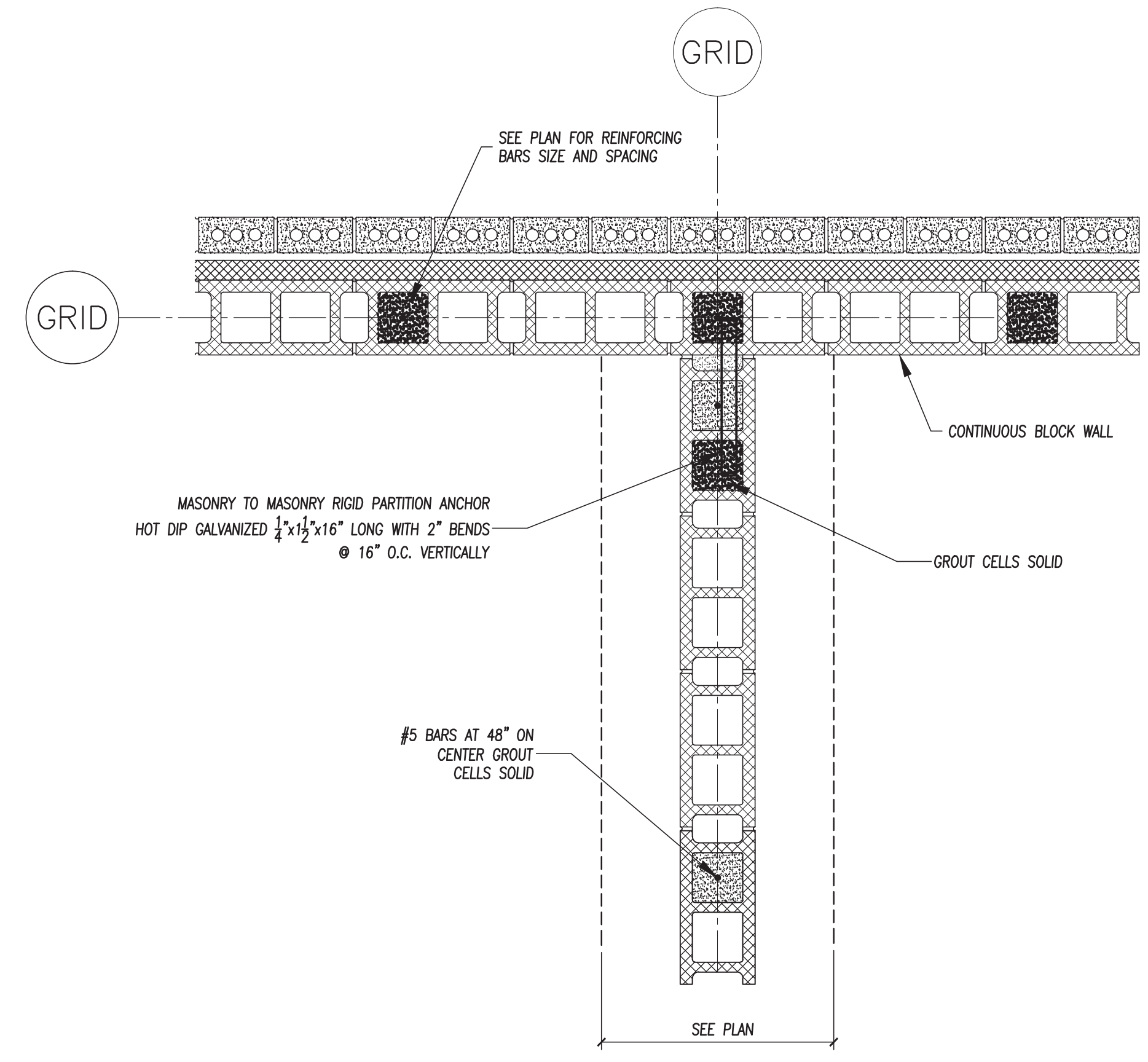
TYPICAL 4 " SLAB CONTROL JOINT



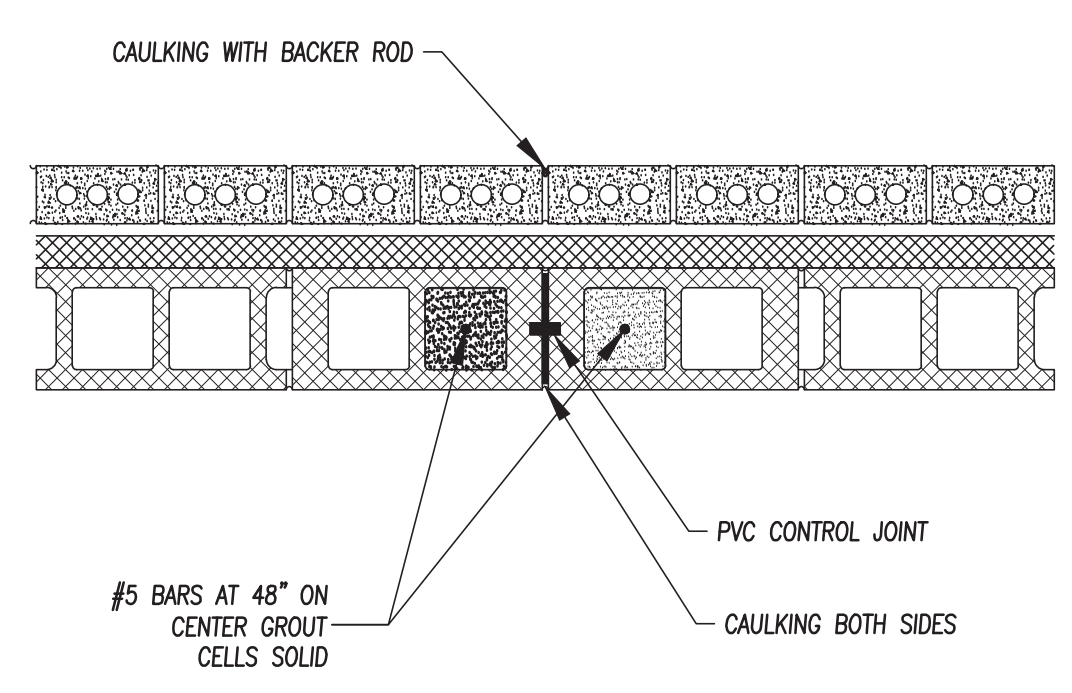
TYPICAL CANOPY AND PATIO TURN DOWN SLAB EDGE



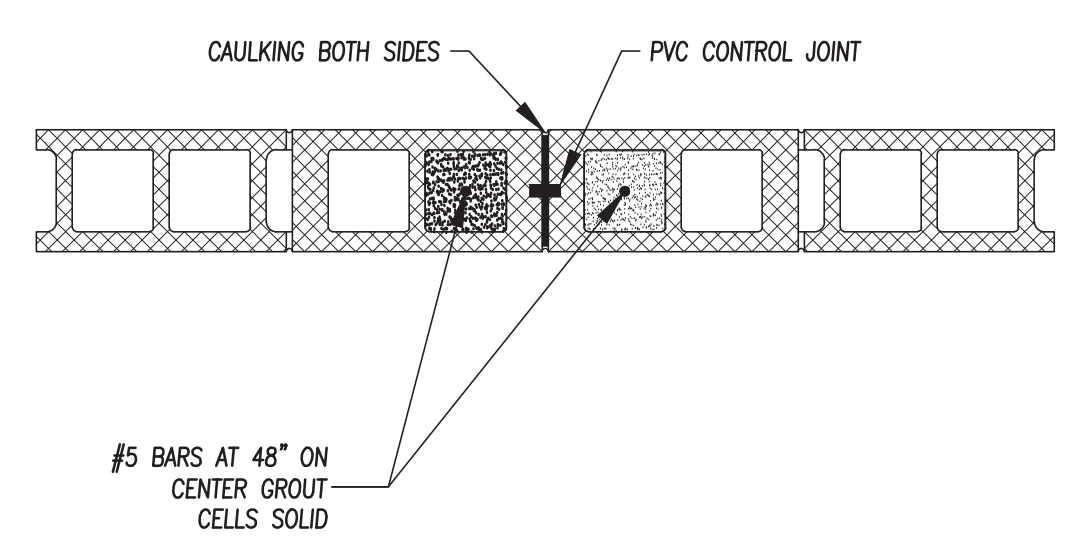
TYPICAL DOOR SIDE WINDOW JAMB DETAIL
 SCALE : 1" = 1'-0"



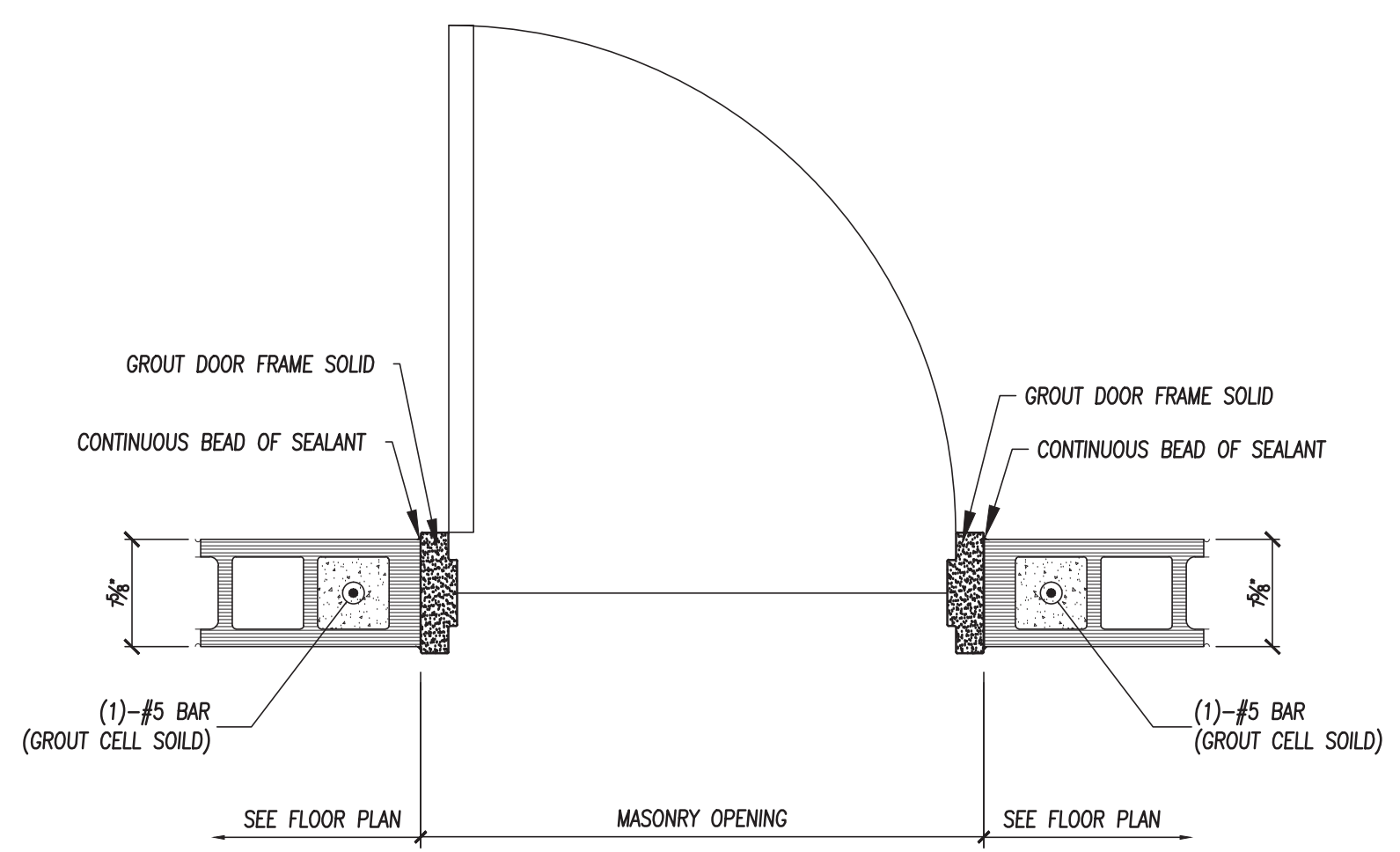
INTERIOR WALL TO CONTINUOUS EXTERIOR WALL DETAIL
 SCALE: 1" = 1'-0"



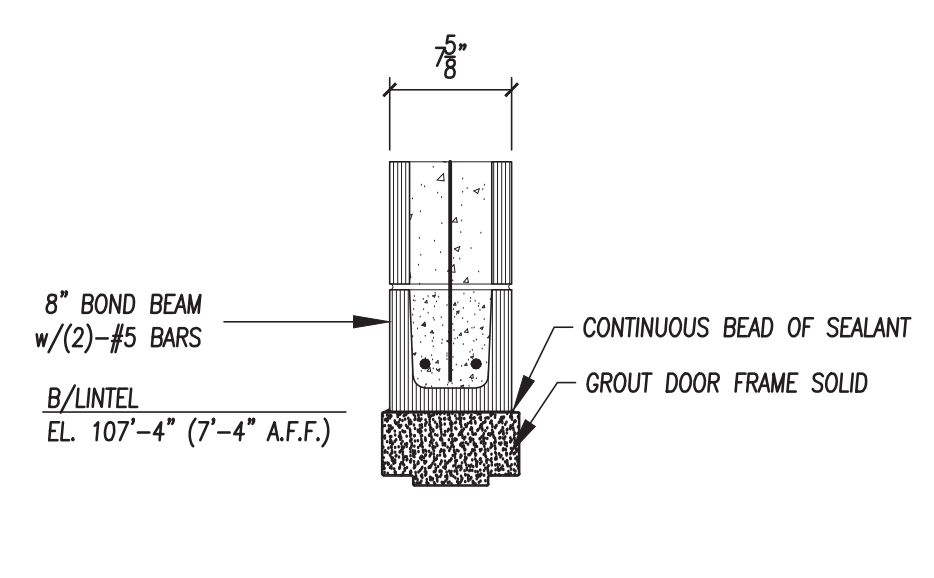
TYPICAL MASONRY CONTROL JOINT DETAIL
 SCALE : 1" = 1'-0"



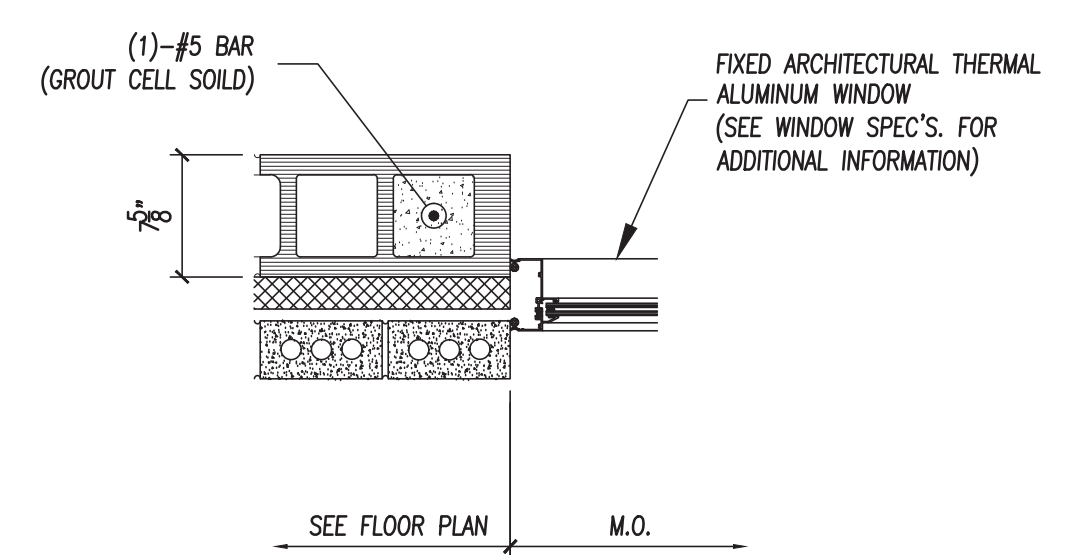
TYPICAL MASONRY CONTROL JOINT DETAIL
 SCALE : 1" = 1'-0"



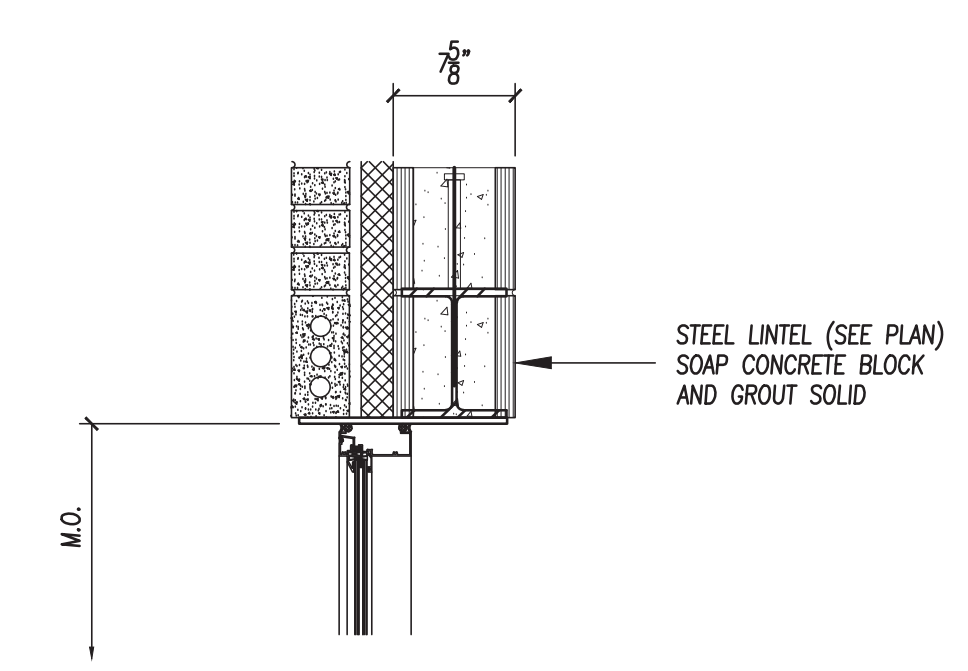
TYPICAL DOOR JAMB DETAIL
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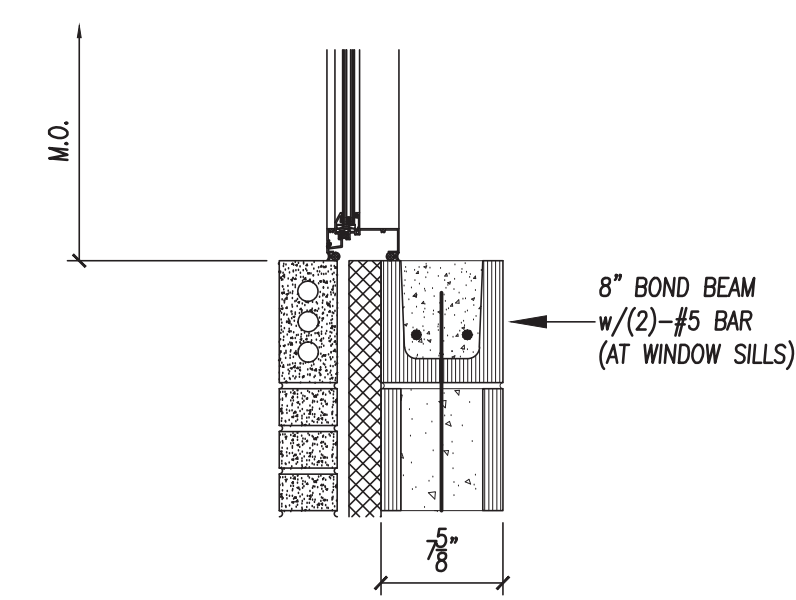
BOND BEAM DOOR HEAD DETAIL
 SCALE : 1" = 1'-0"



TYPICAL WINDOW JAMB DETAIL
 SCALE : 1" = 1'-0"



TYPICAL WINDOW HEAD DETAIL
 SCALE : 1" = 1'-0"



TYPICAL WINDOW SILL DETAIL
 SCALE : 1" = 1'-0"

Winchester High School Classroom Building Addition

700 N Union Street

Winchester, Indiana 47394

Typical Masonry Details

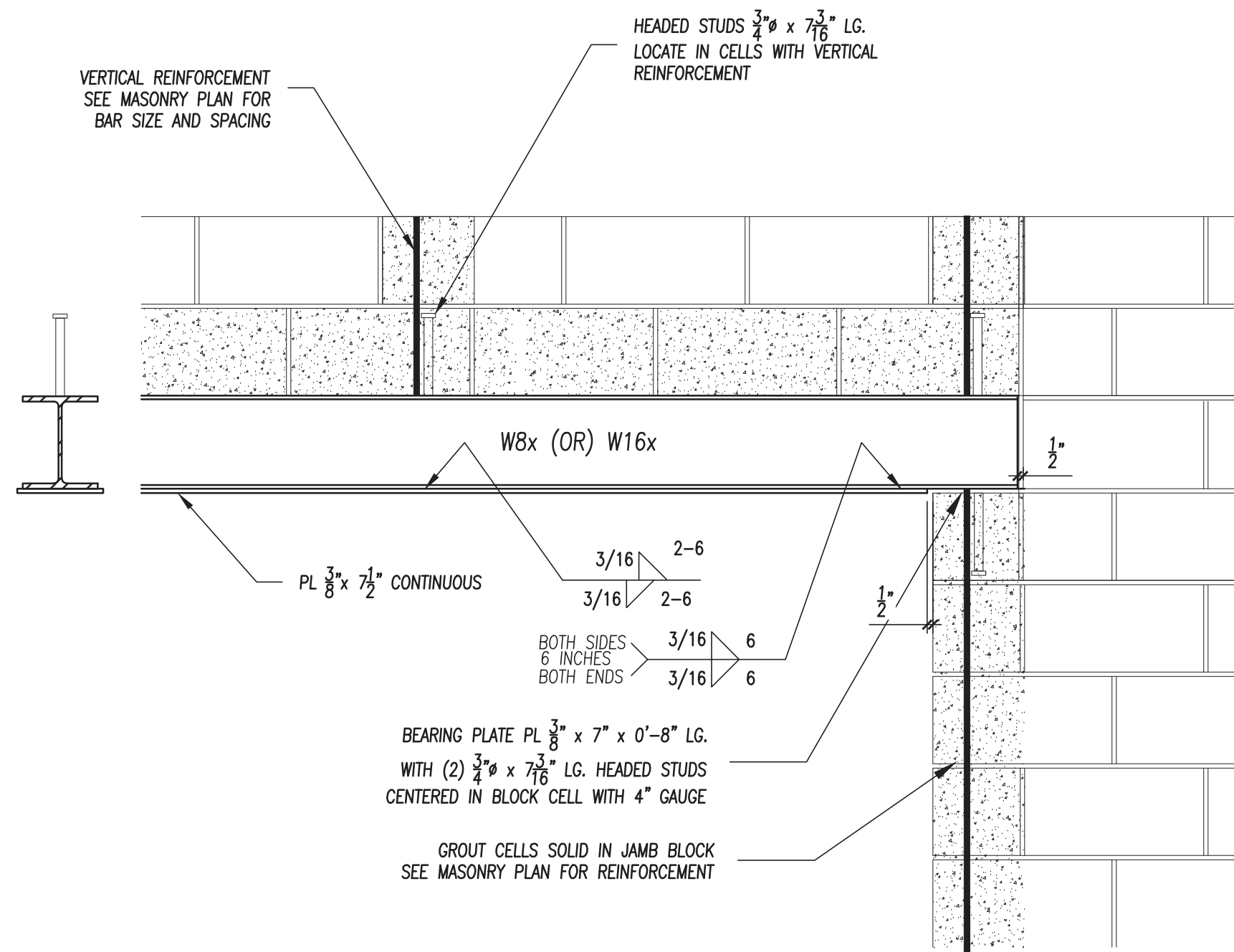
| | | | |
|---------|-------------------|------------|---------|
| SCALE | 1" = 1'-0" (1=12) | CLIENT NO. | |
| DATE | December 2023 | HPH NO. | 22-1772 |
| COORD | TKO | | |
| DRAWN | TKO | | |
| CHECKED | TKO | | |

SD4

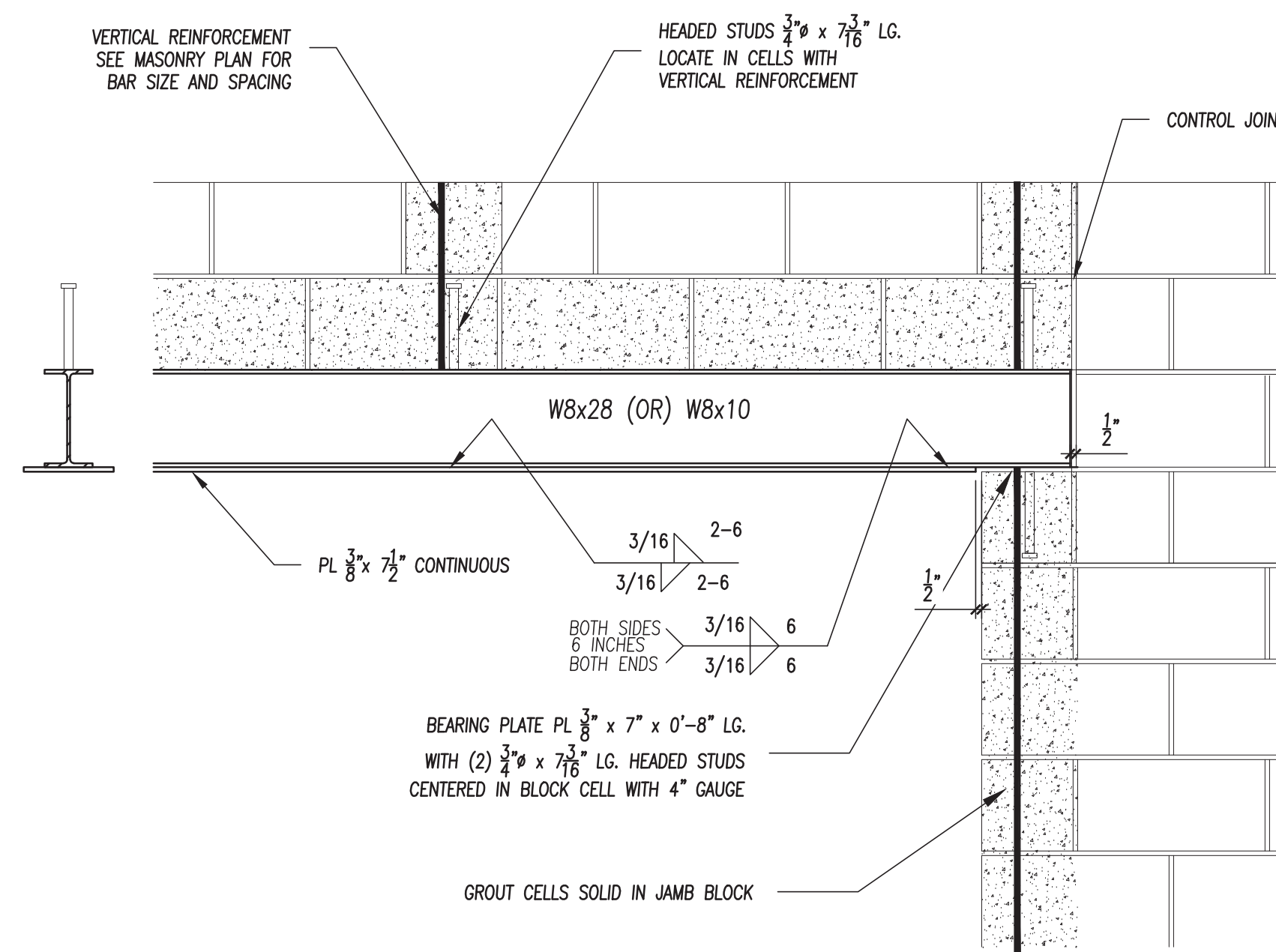


Timothy K. O'Rourke

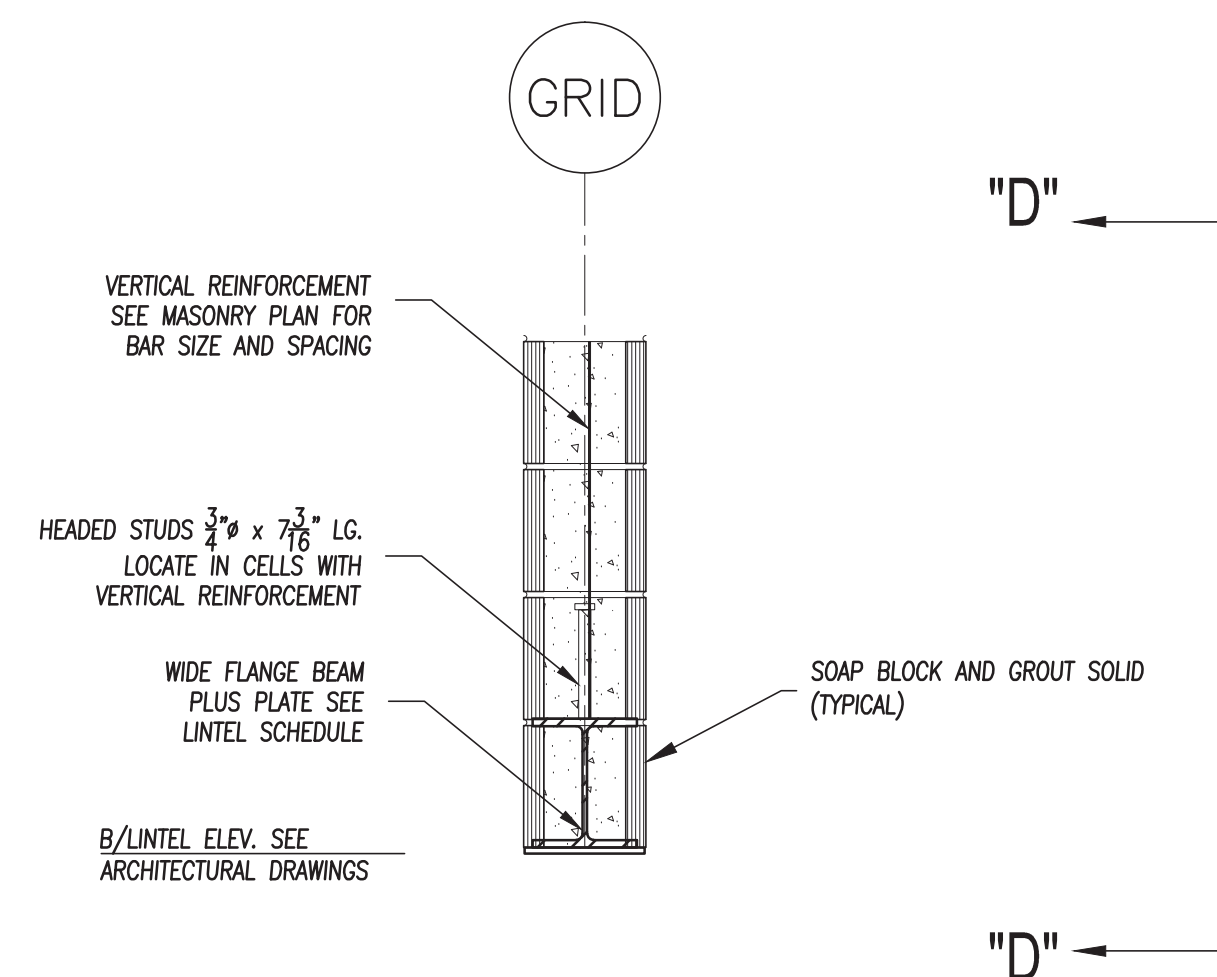
REVISIONS:



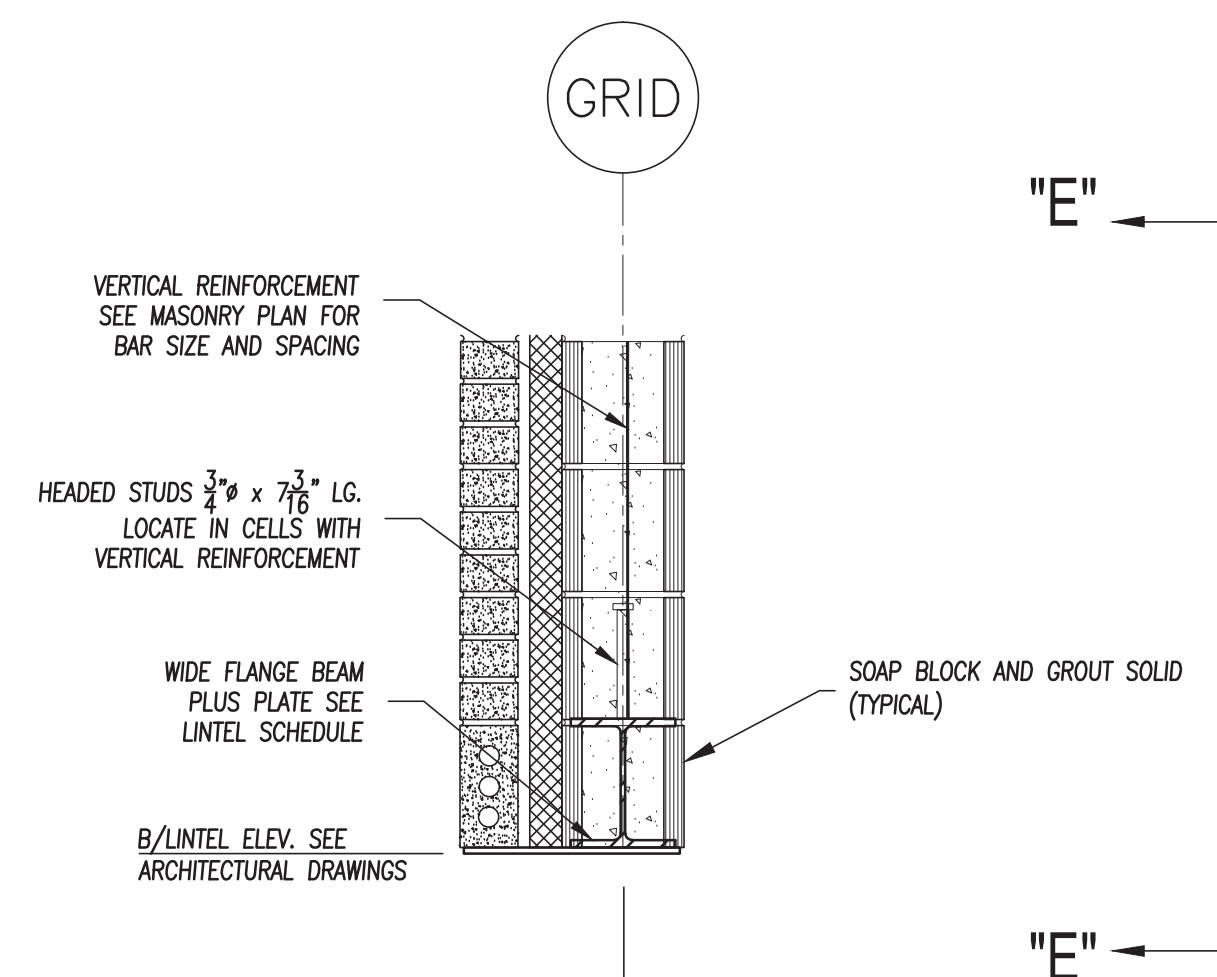
SECTION "D" - "D"
 SCALE: 1"=1'-0"



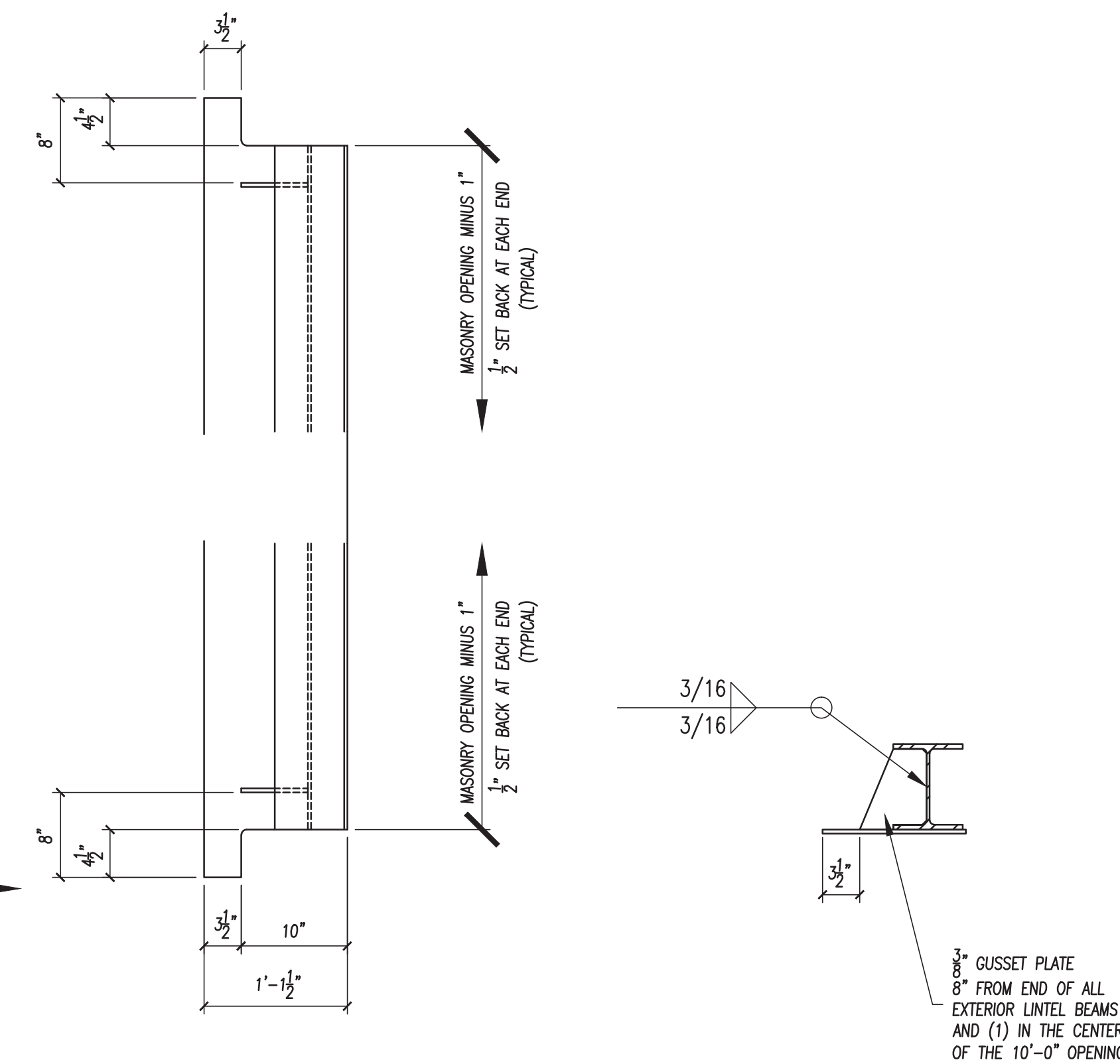
SECTION "E" - "E"
 SCALE: 1"=1'-0"
 NOTE: BRICK NOT SHOWN FOR CLARITY



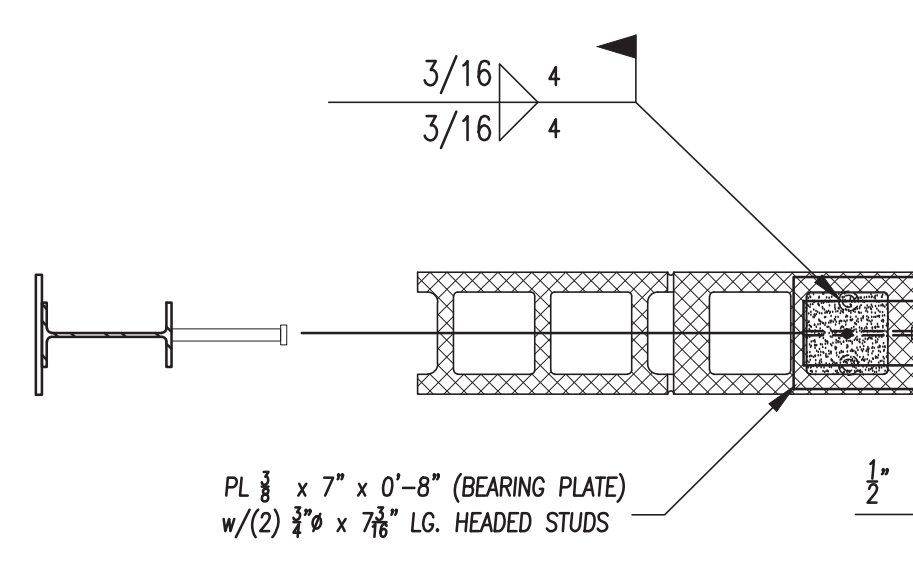
TYPICAL INTERIOR LINTEL
 SCALE: 1"=1'-0"



TYPICAL EXTERIOR LINTEL
 SCALE: 1"=1'-0"

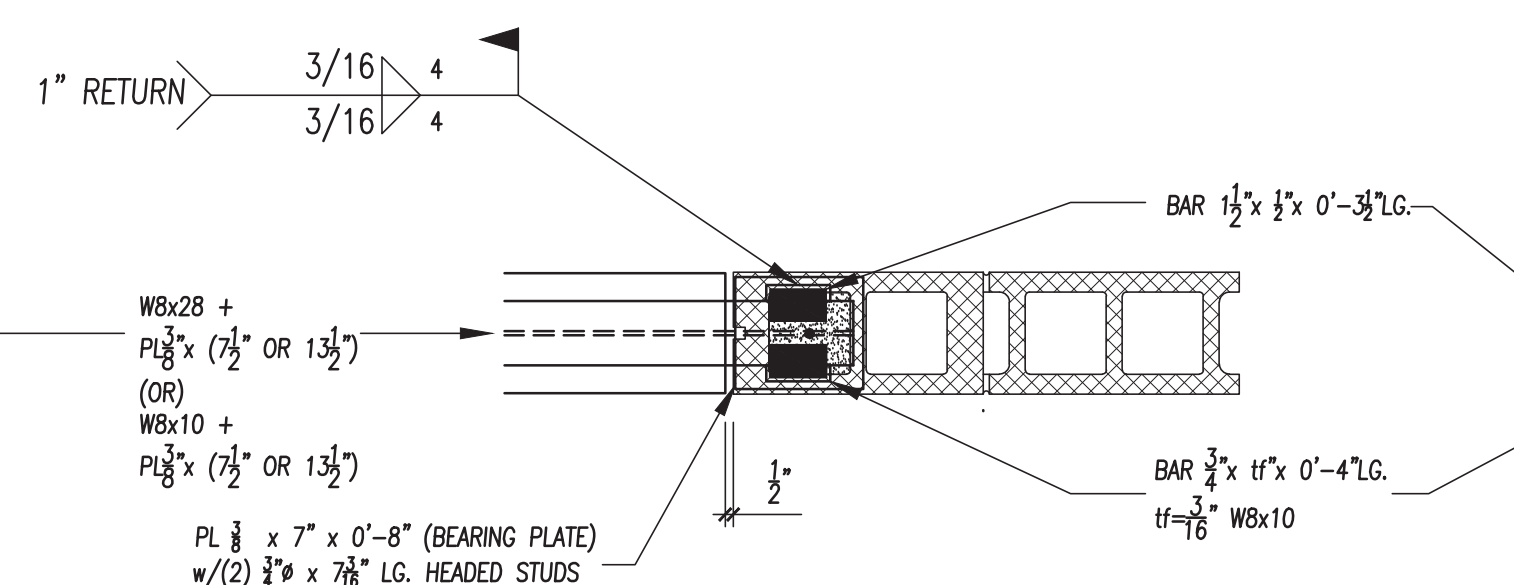


TYPICAL LINTEL PLATE END AT BRICK
 SCALE: 1"=1'-0"

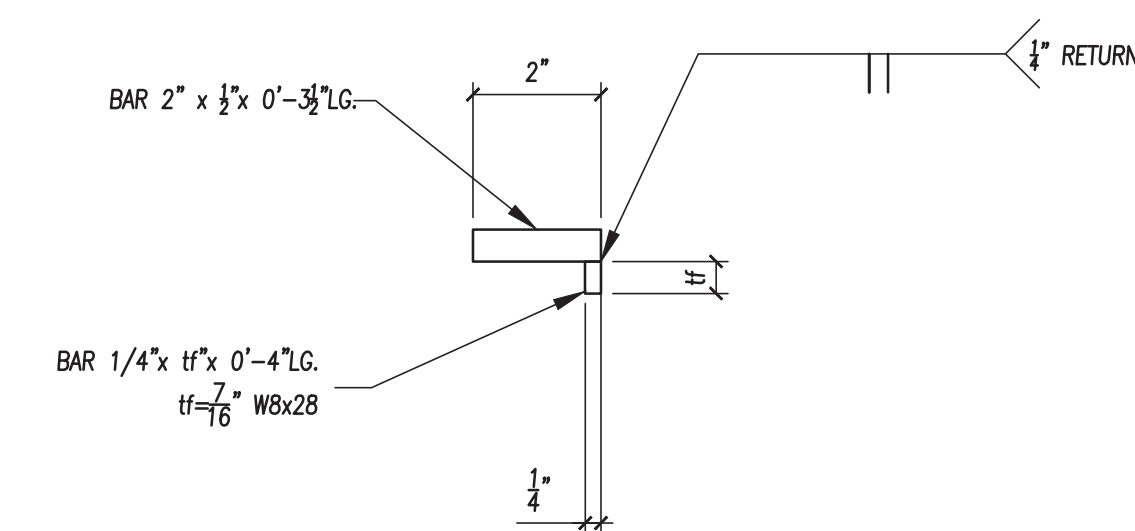


BEAM FIXED CONNECTION
 SCALE: 1 1/2"=1'-0"

NOTE: ALL STEEL LINTELS AND BEAMS FIXED ONE END WITH THE OTHER END A SLIP CONNECTION



BEAM SLIP CONNECTION
 SCALE: 1 1/2"=1'-0"



Winchester High School Classroom Building Addition

700 N Union Street

Winchester, Indiana 47394
Steel Lintel Details

| | | | |
|---------|-------------------|------------|---------|
| SCALE | 1" = 1'-0" (1=12) | CLIENT NO. | |
| DATE | December 2023 | HPH NO. | 22-1772 |
| COORD | TKO | | |
| DRAWN | TKO | | |
| CHECKED | TKO | | |

SD5

GENERAL NOTES

- A. DO NOT SCALE DRAWINGS. IF DIMENSIONS CANNOT BE DETERMINED OR DOCUMENTS ARE IN CONFLICT (WITH THEMSELVES OR FIELD CONDITIONS), THE CONTRACTOR MUST OBTAIN CLARIFICATION FROM THE ARCHITECT PRIOR TO CONTINUATION OF WORK.
- B. CONTRACTOR(S) SHALL VISIT THE SITE TO ACQUAINT THEMSELVES WITH THE EXISTING OR NEWLY INSTALLED CONDITIONS. CONTRACTOR(S) SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, UTILITIES, AND EXISTING OR NEWLY INSTALLED CONDITIONS PRIOR TO CONSTRUCTION.
- C. THE CONSTRUCTION DOCUMENTS AND DRAWING NOTES / SPECIFICATIONS ARE INTENDED TO DESCRIBE AND PROVIDE FOR A FINISHED PIECE OF WORK. THE WORK SHALL BE COMPLETED IN EVERY DETAIL EVEN THOUGH EVERY ITEM NECESSARILY INVOLVED IS NOT PARTICULARLY MENTIONED OR SPECIFIED. ALL WORK SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS AND / OR MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS. IF ANY CONTRACTOR IS IN DOUBT AS TO THE TRUE MEANING OF ANY PART OF THE DOCUMENTS, OR FINDS DISCREPANCIES IN OR OMISSIONS FROM ANY PART OF THE DOCUMENTS, HE MUST CONTACT THE ARCHITECT FOR CLARIFICATION.
- D. ALL DIMENSIONS ARE TO FACE OF STUD, CONCRETE, MASONRY, OR CENTERLINE OF COLUMN, UNLESS NOTED OTHERWISE. WHEN EXISTING CONDITIONS ARE SHOWN, DIMENSIONS ARE TO FACE OF EXISTING FINISH, UNLESS NOTED OTHERWISE.
- E. FINISH FLOOR ELEVATIONS ARE FOR GENERAL REFERENCE. REFER TO CIVIL SHEETS FOR ACTUAL FINISH FLOOR ELEVATIONS.
- F. EQUIPMENT AND FURNITURE SHOWN IS FOR REFERENCE ONLY. EQUIPMENT AND FURNITURE PROVIDED BY OWNER (UNLESS NOTED OTHERWISE). COORDINATE EQUIPMENT AND FURNITURE INSTALLATION AND UTILITY CONNECTIONS WITH OWNER AND OWNER'S SUPPLIER.
- G. **DEFINITIONS:**
NECESSARY: WORK NEEDED TO COMPLETE THE WORK TO "MAKE IT OPERATIONAL".

REQUIRED: WORK NEEDED TO BE IN COMPLIANCE WITH BUILDING CODE, GOVERNING CODE, OR JURISDICTION HAVING AUTHORITY.

PROVIDE: RESPONSIBLE FOR PURCHASE, DELIVERY, RECEIVING, INSPECTION, STORAGE, PREPARATION, AND INSTALLATION OF ITEM(S).

FURNISH: RESPONSIBLE FOR PURCHASE AND DELIVERY OF ITEM(S).

INSTALL: RESPONSIBLE FOR RECEIVING, INSPECTION, STORAGE, PREPARATION, AND INSTALLATION OF ITEM(S).

BASIS OF DESIGN: AN ACCEPTABLE MANUFACTURER OR PRODUCT, DESIGNATED BY THE DESIGN PROFESSIONAL, WHICH EXHIBITS THE INTENDED STANDARDS AND DESIGN CRITERIA THAT MUST BE MET FOR PERFORMANCE. THE ITEM(S) INDICATED MAY BE PROVIDED OR AN ITEM OF EQUIVALENT APPEARANCE, AESTHETIC, QUALITY, MATERIAL, CONSTRUCTION, AND PERFORMANCE MAY BE SUBSTITUTED SUBJECT TO THE ARCHITECT'S OR DESIGN PROFESSIONAL'S APPROVAL. (REFER TO THE "SUBSTITUTIONS" SPECIFICATION FOR ADDITIONAL INFORMATION)

OR EQUAL: MAY FOLLOW A "BASIS OF DESIGN" OR OTHER SPECIFIED MANUFACTURER OR PRODUCT AND INDICATES THAT AN ITEM OF EQUIVALENT APPEARANCE, AESTHETIC, QUALITY, MATERIAL, CONSTRUCTION, AND PERFORMANCE MAY BE SUBSTITUTED SUBJECT TO THE ARCHITECT'S OR DESIGN PROFESSIONAL'S APPROVAL. (REFER TO THE "SUBSTITUTIONS" SPECIFICATION FOR ADDITIONAL INFORMATION)

HVAC GENERAL SPECIFICATIONS

- A. UPON COMPLETION OF ALL HVAC WORK, THE CONTRACTOR SHALL SUBMIT (2) COPIES OF THE MANUFACTURER'S OPERATION AND MAINTENANCE MANUALS FOR ALL EQUIPMENT TO THE OWNER. THE CONTRACTOR SHALL PROVIDE TO THE ARCHITECT A COMPLETE SET OF RECORD DRAWINGS WITH ANY AND ALL CHANGES OR MODIFICATIONS TO THE DESIGN, CONSTRUCTION, SYSTEMS, OR EQUIPMENT CLEARLY INDICATED; SHOP DRAWINGS; INFORMATION ON THE THERMOSTATS, CONTROL WIRING DIAGRAMS, AND OTHER PERTINENT INFORMATION.
- B. **HVAC EQUIPMENT:** ALL EQUIPMENT SHALL BE COMPLETE IN EVERY RESPECT WITH ALL DEVICES, APPURTENANCES, AND ACCESSORIES PROVIDED TO MEET THE DESIGN INTENT AND OPERATION OF THE SYSTEMS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN. EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ALL AIR CONDITIONING EQUIPMENT MUST HAVE A CONDENSATE DRAIN AND BE TRAPPED IN ACCORDANCE WITH MANUFACTURER'S DATA. ALL COMPRESSORS ARE TO INCLUDE A 5-YEAR EXTENDED WARRANTY.
- C. **GAS PIPING (IF INCLUDED IN THE PROJECT):** CONTRACTOR TO COORDINATE (INCLUDING VERIFICATION OF EXISTING SYSTEM EQUIPMENT, MAINS, LINE SIZES, AND REQUIREMENTS) AND SIZE GAS PIPING PER MANUFACTURER'S RECOMMENDATIONS, LOCAL CODE, AND UTILITY COMPANY REQUIREMENTS, UNLESS PROVIDED OTHERWISE IN THE CONSTRUCTION DOCUMENTS - **ARCHITECT/ENGINEER TO REVIEW AND APPROVE GAS PIPING SIZING PRIOR TO INSTALLATION.** GAS PIPING TO BE INSTALLED PER NFPA 54, PERMITTED TO PLUMBING GENERAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- D. **REFRIGERANT LINE SET:** HVAC CONTRACTOR TO SIZE REFRIGERANT LINE SET SIZES PER MANUFACTURER'S RECOMMENDATIONS AND FIELD CONDITIONS - **ARCHITECT/ENGINEER TO REVIEW AND APPROVE LINE SET SIZES PRIOR TO INSTALLATION.** LINES EXCEEDING 150 FEET LENGTH REQUIRE A PUMP (SIZED AND PROVIDED BY THE HVAC CONTRACTOR).
- E. **NOISE AND VIBRATION:** MECHANICAL AND ELECTRICAL EQUIPMENT IS TO OPERATE WITHOUT OBJECTIONABLE NOISE OR VIBRATION. ALL MOTOR OPERATED OR ROTATING EQUIPMENT IS TO BE VIBRATION ISOLATED OR FREE FROM ALL BEAMS, COLUMNS, FLOORS, CEILINGS, JOISTS, WALLS, AND OTHER PARTS OF THE BUILDING STRUCTURE. HANGER RODS FOR ALL PIPING, EQUIPMENT, AND DUCTWORK CONNECTED TO MOTOR OPERATED OR ROTATING EQUIPMENT IS TO BE PROVIDED WITH KINETICS OR APPROVED EQUAL FIBERGLASS ISOLATORS. HANGERS SHALL HAVE FLEXIBLE COLLARS IN ALL CONNECTIONS BETWEEN VIBRATING EQUIPMENT (FANS, ROOFTOP UNITS, ETC.) AND DUCTS. THE FLEXIBLE CONNECTION IS TO BE RATED FOR THE OPERATING PRESSURE OF THE SYSTEM.
- F. **CURBS AND STEEL FRAMING FOR SUPPORT:** PROVIDE ALL NECESSARY CURBS AND STEEL FRAMING REQUIRED TO INSTALL ALL HVAC EQUIPMENT AS DESCRIBED OR IMPLIED ON THE DRAWINGS. CURBS SHALL BE OF THE SAME MANUFACTURER OF THE EQUIPMENT SUPPORTED. INSULATE UNDER THE COMPRESSOR SECTION TO PREVENT CONDENSATION. ALL CURBS MUST BE INSTALLED SO THAT TOP OF CURBS ARE LEVEL.
- G. **DUCTWORK:** DUCTWORK IS TO BE FABRICATED WITH GALVANIZED SHEET STEEL (NO FIBERGLASS ALLOWED) IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE" AND NAIMA "FIBROUS GLASS DUCT CONSTRUCTION STANDARDS" LATEST EDITIONS; CONFORMING TO THE REQUIREMENTS IN THE REFERENCED STANDARD FOR METAL THICKNESS, REINFORCING TYPES AND INTERVALS, TIE ROD APPLICATIONS, AND JOINT TYPES AND INTERVALS. ALL JOINTS, SEAMS, AND CONNECTIONS MUST BE SECURELY FASTENED AND SEALED AIRTIGHT IN COMPLIANCE WITH THE INTERNATIONAL ENERGY CONSERVATION CODE AND OHIO MECHANICAL CODE.
- H. **BRANCH DUCTWORK:** ALL DUCT BRANCHES TO DIFFUSERS ARE TO BE RECTANGULAR OR ROUND RIGID DUCT. ALL BRANCH TAKEOFFS FROM RECTANGULAR MAINS TO BE CONNECTED TO SPIN COLLARS WITH SCOOPS AND QUADRANT DAMPERS.
- I. **FLEXIBLE DUCTWORK:** FLEX DUCTWORK IS TO BE NFPA 90 AND 90A APPROVED INDICATING NO VINYL, TESTED IN ACCORDANCE WITH UL 181, AND LISTED AND LABELED AS CLASS 0 OR CLASS 1 DUCT. NO FLEX DUCT RUN TO EXCEED **8'-0" MAXIMUM** TOTAL LENGTH AT ANY ONE LOCATION. ALL FLEX CONNECTIONS TO BE TAPED AND STRAPPED PER MANUFACTURER'S INSTRUCTIONS. FLEXIBLE AIR DUCT MAY ONLY BE USED IN VERTICAL APPLICATIONS. **FLEXIBLE DUCTWORK IS NOT PERMITTED TO BE USED FOR RETURN DUCTWORK.**
- J. **DUCTWORK INSULATION:** INSTALL INSULATION PRODUCTS IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES. INSULATION MUST COMPLY WITH NFPA 90A. DUCT SIZES SHOWN ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS. INSULATE DUCTWORK PER THE DUCT CONSTRUCTION SCHEDULE. PROVIDE DUCTWORK INSULATION WITHOUT INTERRUPTION THROUGH WALLS, FLOORS, AND SIMILAR PENETRATIONS. ALL INSULATION SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NO HIGHER THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM C411, OR AS REQUIRED BY LOCAL CODES.
- K. WHERE ROUND DUCTWORK IS INDICATED ON PLANS, PROVIDE RECTANGULAR DUCTWORK. IF ROUND DUCTWORK CANNOT BE INSTALLED BECAUSE OF OBSTRUCTIONS, INSUFFICIENT CLEARANCES OR OTHER CAUSES DUE TO FIELD CONDITIONS, CONTRACTOR'S OPTION TO INSTALL RECTANGULAR DUCTWORK IN LIEU OF INDICATED ROUND DUCTWORK AT OTHER LOCATIONS. SIZE ALL RECTANGULAR DUCTWORK CONVERSIONS COMPARABLE TO INDICATED DUCTWORK SIZE PER SMACNA "HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE," LATEST EDITION. SHOULD THE CONTRACTOR BE IN DOUBT OF THE REQUIREMENTS UNDER THIS SECTION, DUCTWORK SIZING, OR SHOULD ANY DISCREPANCY BE REVEALED BASED ON FIELD CONDITIONS, IMMEDIATELY CONTACT THE ARCHITECT FOR CLARIFICATION.
- L. PROVIDE A FLEXIBLE CONNECTION BETWEEN BONNET AND RIGID DUCT ON ALL SUPPLY AND RETURN DUCTWORK.
- M. **DIFFUSERS, GRILLES, REGISTERS, AND DAMPERS:** PROVIDE DIFFUSERS, GRILLES, AND REGISTERS AS SCHEDULED. DEVICES TO BE COMPLETE WITH BALANCING DAMPERS, FRAMES, AND ALL ACCESSORIES. FINISH AS INDICATED. PROVIDE UL LISTED (UL555) FIRE RATED DAMPERS AT ALL FIRE PARTITION OR FIRE BARRIER PENETRATIONS, WHETHER SHOWN OR NOT SHOWN ON THE PLANS. ALL GRAVITY DAMPERS REQUIRE SEALS.
- N. **SUPPORT AND BRACING:** INSTALL RIGID ROUND AND RECTANGULAR METAL DUCTWORK WITH APPROVED SUPPORT SYSTEMS INDICATED IN SMACNA STANDARDS AND STATE BUILDING CODE. SUPPORT HORIZONTAL DUCTS AT A MAXIMUM INTERVAL OF 10 FEET AND WITHIN 2 FEET OF EACH ELBOW AND WITHIN 4 FEET OF EACH BRANCH INTERSECTION USING DOUBLE STRAP HANGERS ON EACH SIDE OF FITTING. SUPPORT VERTICAL DUCTS AT A MAXIMUM INTERVAL OF 10 FEET AND AT EACH FLOOR. FLEXIBLE AND OTHER FACTORY MADE DUCTS SHALL BE SUPPORTED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. NO WOOD SHALL BE USED TO SUPPORT OR BRACE DUCTS. PROVIDE SWAY AND SEISMIC BRACING AS REQUIRED BY STATE AND LOCAL CODES. PROVIDE FIXED ANCHORS AT EACH MECHANICAL DIFFUSER OR GRILLE TO CEILING GRID. CEILING GRID CONTRACTOR TO PROVIDE SUPPORT WIRES AT OPPOSITE CORNERS OF LIGHT FIXTURES, MECHANICAL DIFFUSERS, AND GRILLES TO STRUCTURE ABOVE.

HVAC GENERAL SPECIFICATIONS CONT'D

- O. **CONTROLS:** EACH UNIT TO BE CONTROLLED BY THERMOSTAT WITH PROPER STAGES OF HEATING AND COOLING - MOUNTED AT 54" AFF (REFER TO MECHANICAL SHEETS FOR MODEL NO. AND LOCATION). CONTROL WIRING IS TO BE FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR. POWER WIRING IS TO BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- P. **POWER AND CONTROL WIRING:** ELECTRICAL CONTRACTOR TO PROVIDE ALL NECESSARY POWER WIRING FOR HVAC EQUIPMENT FROM SUITABLE FUSED DISCONNECT SOURCE TO UNIT WITH FUSED DISCONNECT TO MEET NATIONAL ELECTRIC CODE (NEC), STATE AND LOCAL CODES. HVAC CONTRACTOR TO PROVIDE 24 VOLT OR LESS CONTROL WIRING.
- Q. **STARTUP:** HVAC CONTRACTOR TO PROVIDE STARTUP PER MANUFACTURER'S WRITTEN RECOMMENDATIONS.
- R. **AIRFLOW AND TESTING:** ALL DUCT AS PER SMACNA GUIDELINES. THE SYSTEM TO BE BALANCED AND TESTED BY AN INDEPENDENT, "NEBB" CERTIFIED, BALANCING CONTRACTOR PER "NEBB".
- S. PROCEDURES. THE HVAC CONTRACTOR SHALL INCLUDE THE COST OF THE BALANCING AND TESTING IN HIS BID. THE BALANCING CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TRANSPORTATION, AND EQUIPMENT NECESSARY TO COMPLETELY BALANCE THE AIR FLOW FOR THE HVAC SYSTEMS AS SHOWN ON THE DRAWINGS. HVAC CONTRACTOR SHALL INSTALL NEW FILTERS IN ALL UNITS PRIOR TO THE AIR BALANCE. THE COMPLETE AIR BALANCE SHALL TAKE PLACE WITH OUTSIDE AIR DAMPERS IN MINIMUM POSITION. BALANCE THE SYSTEM TO WITHIN +5 PERCENT OF THE DESIGN REQUIREMENTS. THE HVAC CONTRACTOR AT NO ADDITIONAL COST SHALL PERFORM ANY REQUIRED CHANGES REQUIRED TO ACHIEVE SPECIFIED FLOW RATES. ALL CONTROL SEQUENCES SHALL BE TESTED (INTERLOCKED EQUIPMENT, SMOKE DETECTORS, SMOKE EVACUATION, ECONOMIZER, CO2 SENSORS, ETC.) AND OPERATING STATUS RECORDED IN THE REPORT. A DIGITAL OR THREE (3) PRINTED COPIES OF THE BALANCE AND TESTING REPORT SHALL BE PROVIDED TO THE OWNER, OWNER'S REPRESENTATIVE, OR ARCHITECT BEFORE PROJECT CLOSE OUT FOR REVIEW. THE BALANCING CONTRACTOR SHALL RECHECK ANY ITEMS THAT THE OWNER OR ARCHITECT DEEMS REASONABLY NECESSARY AT NO ADDITIONAL COST TO THE OWNER.
- T. VENTILATION AND COMBUSTION AIR INTAKE: PROVIDE OUTSIDE VENTILATION AIR BY NATURAL VENTILATION OR MECHANICAL EQUIPMENT AS REQUIRED BY THE MECHANICAL CODE (REFER TO OUTSIDE AIR VENTILATION SCHEDULE). IF GAS-FIRED EQUIPMENT IS USED, VERIFY THAT THE MECHANICAL ROOM AND / OR MECHANICAL EQUIPMENT ARE PROVIDED WITH ADEQUATE COMBUSTION AND DILUTION AIR IN COMPLIANCE WITH THE MECHANICAL CODE. PROVIDE ADDITIONAL AIR AS REQUIRED. PROVIDE A VENT DESIGNED FOR THE TYPE OF APPLIANCE BEING VENTED FOR ALL GAS-FIRED EQUIPMENT TO THE EXTERIOR. PROVIDE VENTS DIRECTLY TO THE EXTERIOR FOR ALL EXHAUST FANS. ALL EXHAUST AND INTAKE OPENINGS MUST BE LOCATED A MINIMUM OF 10 FEET FROM LIT LINES OR BUILDINGS ON THE SAME LOT.
- U. PROVIDE A SMOKE DETECTOR IN RETURN AIR SYSTEMS WITH A DESIGN CAPACITY GREATER THAN 2,000 CFM IN THE RETURN AIR DUCT OR PLENUM UPSTREAM OF ANY FILTERS, EXHAUST AIR CONNECTIONS, OUTDOOR AIR CONNECTIONS, OR DECONTAMINATION EQUIPMENT AND APPLIANCES (PER OMC SECTION 606.2.1). WHERE TWO OR MORE UNITS SHARE THE SAME RETURN, THE COMBINED AMOUNT OF CFM SHALL BE USED IN DETERMINING WHETHER A DUCT SMOKE DETECTOR IS REQUIRED. COORDINATE THESE REQUIREMENTS BETWEEN THE HVAC AND THE ELECTRICAL OR FIRE ALARM CONTRACTORS.
- V. PROVIDE ACCESS TO ALL DAMPERS, CONTROLS, AND OTHER ITEMS IN DUCTWORK THAT REQUIRE SERVICE OR INSPECTION. IF THE ACCESS PANEL LOCATION IS EXPOSED, THE OWNER OR THE ARCHITECT MUST APPROVE IT PRIOR TO INSTALLATION. ACCESS PANELS ARE NOT REQUIRED ABOVE LAV-IN GRID TYPE CEILINGS.
- W. ALL HVAC EVAPORATORS AND COOLING COILS REQUIRE A CONDENSATE DRAIN, WHICH IS CONVEYED TO AN APPROPRIATE PLACE OF DISPOSAL, TYPICALLY INDIRECTLY INTO A FLOOR DRAIN. A SECONDARY DRAIN OR AUXILIARY DRAIN PAN (WITH A SEPARATE DRAIN OR A WATER LEVEL DETECTION DEVICE CONFORMING TO UL 508 THAT WILL SHUT OFF THE EQUIPMENT SERVED PRIOR TO OVERFLOW OF THE AUXILIARY DRAIN PAN) IS REQUIRED FOR ANY EQUIPMENT THAT PRODUCES CONDENSATE AND WHERE DAMAGE MAY OCCUR AS A RESULT OF OVERFLOW FROM THE EQUIPMENT DRAIN PAN OR STOPPAGE IN THE CONDENSATE DRAIN (PER OMC SECTION 307.2.3). COORDINATE THESE REQUIREMENTS BETWEEN THE HVAC AND PLUMBING CONTRACTORS AND THE ARCHITECT.
- X. ALL ROOF AND/OR EXTERIOR WALL PENETRATIONS ARE TO BE SEALED AIR AND WATER TIGHT, COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS. ALL EQUIPMENT, PIPES, DUCTS, ETC. ARE TO BE INSTALLED CONCEALED ABOVE THE CEILING UNLESS SHOWN OTHERWISE.
- Y. VERIFY ALL SUSPENDED MECHANICAL LOADS WITH ARCHITECT PRIOR TO ORDERING NEW MECHANICAL EQUIPMENT.
- Z. HVAC CONTRACTOR TO COORDINATE ROUTING AND LOCATION OF ALL DEVICES WITH BUILDING STRUCTURE AND OTHER CEILING MOUNTED DEVICES.
- AA. HVAC CONTRACTOR TO REVIEW DRAWINGS FOR COMPLIANCE WITH LOCAL CODES AND WITH AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT. CONTACT ARCHITECT WITH ANY QUESTIONS OR CONCERNS.

| DUCTWORK SYMBOL LEGEND | | | |
|------------------------|-----------------------------------|--|-------------------------------------|
| | SUPPLY OR OUTSIDE AIR DUCT UP | | RADIUS RECTANGULAR ELBOW |
| | RETURN OR EXHAUST AIR DUCT UP | | SUPPLY OR OUTSIDE AIR ROUND DUCT UP |
| | SUPPLY OR OUTSIDE AIR DUCT DOWN | | RETURN OR EXHAUST AIR ROUND DUCT UP |
| | RETURN OR EXHAUST AIR DUCT DOWN | | ROUND DUCT DOWN |
| | SUPPLY OR OUTSIDE AIR DUCT OFFSET | | ROUND OFFSET |
| | RETURN AIR DUCT OFFSET | | ROUND ELBOW |
| | MANUAL BALANCING DAMPER | | ROUND WYE |
| | MOTORIZED DAMPER | | RECTANGULAR BRANCH TAKEOFF |
| | FIRE DAMPER | | RECTANGULAR DUCT TERMINATION |
| | RECTANGULAR TO ROUND TRANSITION | | ROUND DUCT TERMINATION |
| | RECTANGULAR TRANSITION | | |
| | STANDARD RECTANGULAR ELBOW | | |

| ANNOTATION SYMBOL LEGEND | | | |
|--------------------------|-----------------------------|--|---------------------|
| | THERMOSTAT OR TEMP. SENSOR | | SECTION SYMBOL |
| | HUMIDISTAT | | EQUIPMENT PLAN MARK |
| | SWITCH | | CONNECT TO EXISTING |
| | KEYED NOTE SYMBOL | | DETAIL SYMBOL |
| | CONNECT TO EXISTING | | |
| | VAV TERMINAL UNIT MARK | | |
| | EQUIPMENT MARK | | |
| | AIR DEVICE MARK - NECK SIZE | | |
| | ROUND DUCT SIZE | | |
| | RECTANGULAR DUCT SIZE | | |

| AIR DEVICE AND DUCT ACCESS. LEGEND | | | |
|------------------------------------|---|--|---|
| | RETURN AIR GRILLE | | SUPPLY AIR DIFFUSER (HARD CONNECTION) |
| | SUPPLY AIR DIFFUSER WITH FLEXIBLE RUNOUT AND DAMPER | | RETURN OR EXH. GRILLE (HARD CONNECTION) |
| | SIDEWALL DIFFUSER | | 14X14 TRANSFER OPENING IN WALL |
| | SUPPLY AIR DIFFUSER (HARD CONNECTION) | | TRANSFER OPENING IN WALL |
| | RETURN OR EXH. GRILLE (HARD CONNECTION) | | |

| PIPE SYMBOL LEGEND | |
|--------------------|--------------------------|
| | PIPE DOWN |
| | PIPE UP |
| | TEE DOWN |
| | TEE UP |
| | PIPE BREAK (FOR CLARITY) |
| | CAPPED PIPE |
| | REFRIGERANT SUCTION PIPE |
| | REFRIGERANT HOT GAS PIPE |

| HVAC INDEX OF DRAWINGS | |
|------------------------|-------------------------------|
| SHEET NUMBER | SHEET NAME |
| H0.1 | HVAC LEGEND AND GENERAL NOTES |
| H0.2 | HVAC SCHEDULES & DETAILS |
| H1.1 | HVAC FLOOR PLAN |



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WINCHESTER,
 INDIANA

Project No. 2025128
 Coordinator.... JPO

Date..... 12-08-2025

Revision: No. Date

HVAC LEGEND
 AND GENERAL
 NOTES

drawing

H0.1

| VENTILATION SCHEDULE | | | | | | | | |
|----------------------|----------------|----------------|-----------|-----------------------------|------------------------------|------------------------|------------------|--------------------------|
| ROOM NUMBER | ROOM NAME | OCCUPANCY TYPE | AREA (SF) | OCCUPANT DENSITY (#/1000SF) | PEOPLE AIR RATE (CFM/PERSON) | AREA AIR RATE (CFM/SF) | NUMBER OF PEOPLE | MINIMUM OA AIRFLOW (CFM) |
| 101 | ENTRY | CORRIDOR | 322 | 0 | 0 | 0.06 | 0 | 19 |
| 102 | WOMEN | - | 76 | 0 | 0 | 0 | 0 | 0 |
| 103 | MEN | - | 80 | 0 | 0 | 0 | 0 | 0 |
| 104 | CLASSROOM | CLASSROOM | 1850 | 35 | 10 | 0.12 | 65 | 872 |
| 105 | CLASSROOM | CLASSROOM | 1026 | 35 | 10 | 0.12 | 36 | 483 |
| 106 | BREAK OUT AREA | CLASSROOM | 191 | 35 | 10 | 0.12 | 7 | 93 |
| 107 | BREAK OUT AREA | CLASSROOM | 191 | 35 | 10 | 0.12 | 7 | 93 |
| | | | | | | | | 1560 |

| PACKAGED ROOFTOP AIR HANDLING UNIT SCHEDULE | | | | | | | | | | | | | | | | | |
|---|-----------------|------|------------------|-------------------|----------------------------|------------------|----------|-----------|------------|---------------|---------------|------------------|-------|-----|-------------|-------|----------------------|
| PLAN MARK | BASIS OF DESIGN | | | | | COOLING CAPACITY | | GAS HEAT | | ENTERING AIR | | ELECTRICAL | | | ACCESSORIES | | |
| | CARRIER MODEL # | TONS | SUPPLY AIR (CFM) | OUTSIDE AIR (CFM) | STATIC PRESSURE (IN. W.C.) | (MBH) | EER/SEER | INPUT MBH | OUTPUT MBH | DRY BULB (°F) | WET BULB (°F) | AMBIENT AIR (°F) | V/PH | MCA | | MOC/P | WEIGHT |
| RTU-1 | 48HCED11B | 10 | 4,000 | 1,600 | 0.5 | 127.2 | 12.0 / - | 224 | 184 | 85 | 67.0 | 95 | 208/3 | 58 | 70 | 1090 | 1,2,3,4,5,6,7,8,9,10 |

ACCESSORIES INSTALLED ON ALL UNITS:

- THROUGH-THE-CURB AND THROUGH-THE-BASE UTILITY CONNECTIONS.
- ROOF CURBS
- UNIT SHIPS WITH 2" THROWAWAY FILTERS
- SINGLE POINT POWER CONNECTION
- UNIT DISCONNECT
- NON-POWERED CONVENIENCE OUTLET
- RETURN AIR SMOKE DETECTOR
- ECONOMIZER W/ENTHALPY CONTROLS AND BAROMETRIC RELIEF
- COIL GUARD / HAIL GUARDS
- POWERED EXHAUST.

| FAN SCHEDULE | | | | | | | | | | | | | |
|--------------|---------------------------|-----------|----------|--------|-----------|------------|--------|------------|------------|------|-------|-------|--|
| PLAN MARK | TYPE | MANUF. | MODEL | CFM | ESP (W/C) | WHEEL SIZE | DRIVE | MAX. SONES | ELECTRICAL | | | NOTES | |
| | | | | | | | | | HP/W | VOLT | PHASE | | |
| EF-1 | INLINE | GREENHECK | SQ-97-VG | 200 | 0.25 | 9.5 | DIRECT | - | 1/15 | 120 | 1 | 1,2 | |
| HV-1 | HVLS - 10 FT DIA. 5-BLADE | GREENHECK | DC-5-10 | 46,700 | - | - | DIRECT | - | 1/4 | 120 | 1 | 3 | |
| HV-2 | HVLS - 8 FT DIA. 6-BLADE | GREENHECK | DC-5-8 | 29,000 | - | - | DIRECT | - | 1/4 | 120 | 1 | 3 | |

NOTES:

- PROVIDE WITH INTEGRAL DISCONNECT SWITCH, BACKDRAFT DAMPER AND MOTOR SPEED SELECTOR.
- FAN TO BE CONTROLLED BY ADJUSTABLE TIME CLOCK. HOURS TO BE DETERMINED BY OWNER.
- FAN SHALL BE SECURED TO STRUCTURE PER MANUFACTURER GUIDELINES. FAN SHALL BE CONTROLLED BY WALL MOUNTED CONTROLLER.

| AIR DEVICE SCHEDULE | | | | | | | | | |
|---------------------|--|-----------------|-------|----------|--------|----------|-------------|------|-------------------|
| PLAN MARK | DESCRIPTION | BASIS OF DESIGN | | MOUNTING | FINISH | MATERIAL | ACCESSORIES | | |
| | | MFR | MODEL | | | | THK. | TYPE | D |
| A1 | SQUARE FACE CEILING DIFFUSER, 24x24 FACE | TITUS | TMS | LAY-IN | WHITE | STEEL | | | |
| B1 | EGGCRATE RETURN GRILLE | TITUS | 50F | LAY-IN | WHITE | ALUMN. | | | |
| B2 | EGGCRATE RETURN GRILLE | TITUS | 50F | SURFACE | WHITE | ALUMN. | | | |
| C1 | DOUBLE DEFLECTION SUPPLY GRILLE | TITUS | 272RL | SURFACE | WHITE | STEEL | | | OPP. BLADE DAMPER |

| DUCTWORK CONSTRUCTION SCHEDULE | | | | | | | | | | | |
|------------------------------------|----------|--------------|----------|-------|------|---|------------|------|---|--------|-------|
| DUCT SYSTEM | SHAPE | PRESS. CLASS | MATERIAL | LINER | | | INSULATION | | | | NOTES |
| | | | | THK. | TYPE | D | THK. | TYPE | D | JACKET | |
| CONCEALED SUPPLY & RETURN | RND/RECT | -/+2" | GS | - | - | - | 1.5" | FGW | - | FFJ | 1,3 |
| CONCEALED SUPPLY AIR DEVICE RUNOUT | RND | +1" | IFD | - | - | - | 1.5" | IFD | - | FFJ | 2 |
| EXPOSED SUPPLY & RETURN | RND/RECT | -/+2" | GS | - | - | - | - | - | - | - | |

GENERAL NOTES:

A ALL PAINTING BY GENERAL CONTRACTOR.

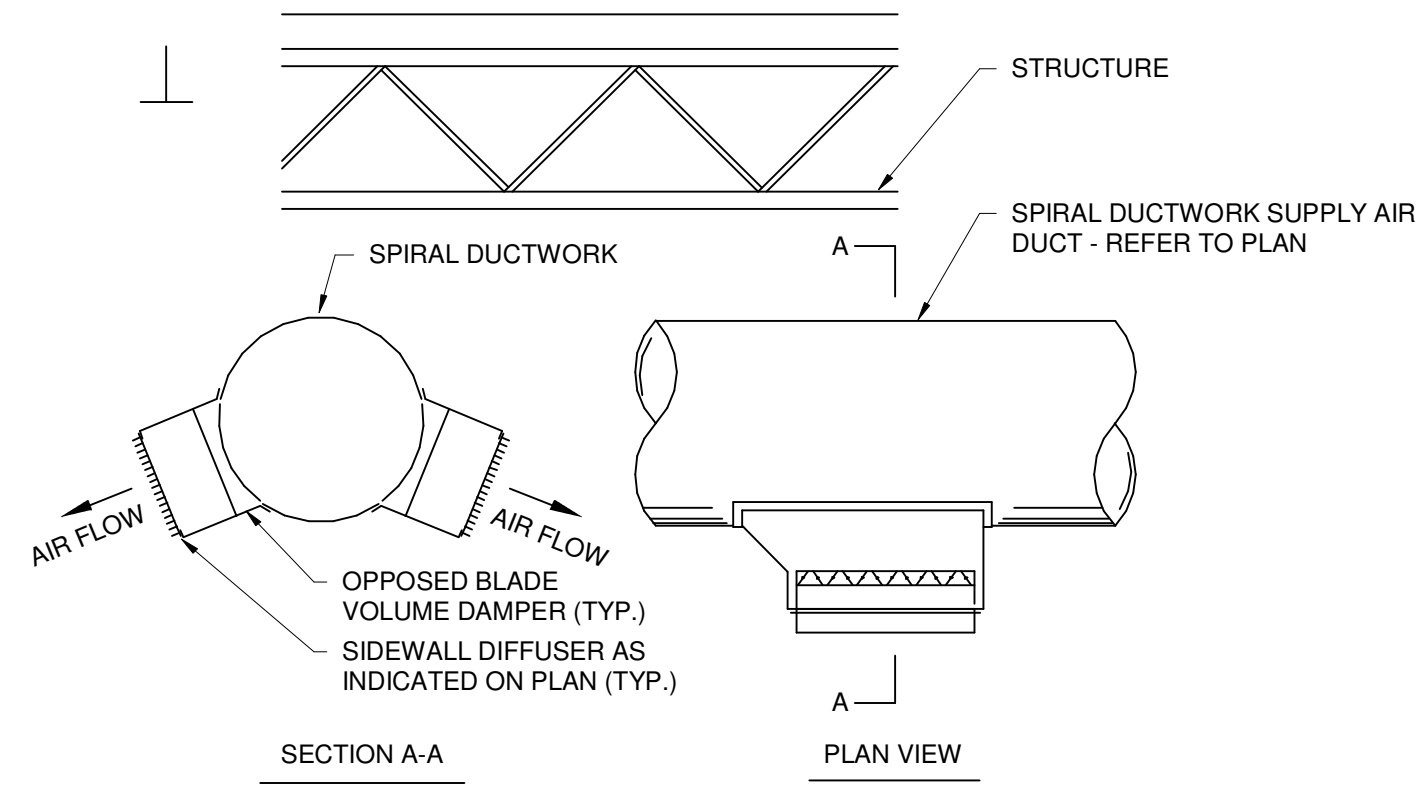
B ALL DUCT JOINTS AND SEAMS SHALL BE SEALED PER OMC CHAPTER 5.

SCHEDULE NOTES:

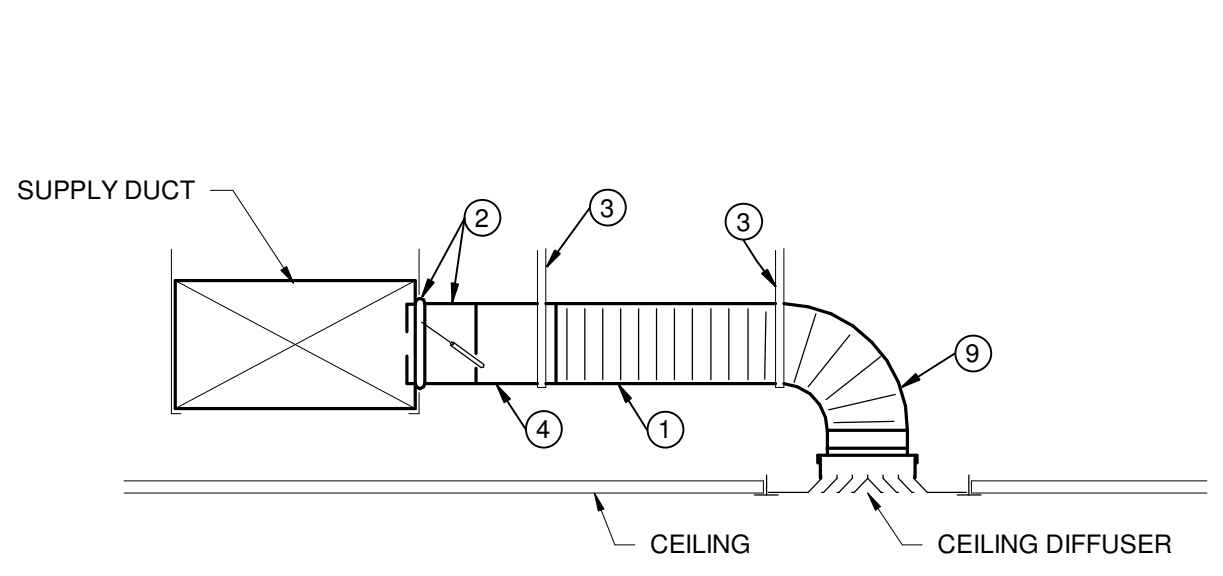
- INCLUDES DUCTWORK INSTALLED ABOVE CEILINGS ROUTED WITHIN THE PLENUM AREA.
- ROUND RUNOUTS TO AIR DEVICES SHALL BE EXTERNALLY INSULATED.
- DUCTWORK WITHIN 15 FT OF UNIT SHALL BE INTERNALLY LINED.

ABBREVIATIONS:

| | | | | |
|------|--------------------------------|------------------------------|-------|-----------------------------|
| AIFD | ACOUSTICAL INSULATED FLEX-DUCT | FOIL FACED JACKET | PGGS | PAINTGRIP GALVANIZED STEEL |
| ALUM | ALUMINUM | FIBERGLASS WRAP | PVCGS | PVC COATED GALVANIZED STEEL |
| ABA | ADHESIVE BACKED ALUMINUM | FIRE WRAP | RECT | RECTANGULAR |
| ASJ | ALL SERVICE JACKET | GALVANIZED STEEL | RND | ROUND |
| CS | CARBON STEEL | GALVANIZED STEEL SPIRAL PIPE | SS | STAINLESS STEEL |
| D | DENSITY (PCF) | INSULATED FLEXIBLE DUCT | TH | THICKNESS |
| DWI | DOUBLEWALL INSULATED | MATT FACED FIBERGLASS | UFD | UNINSULATED FLEXIBLE DUCT |
| ETPS | EXTRUDED POLYSTYRENE | PERFORATED FABRIC DUCT | | |
| FB | FIBERGLASS BOARD | PERFORMED LINER | | |

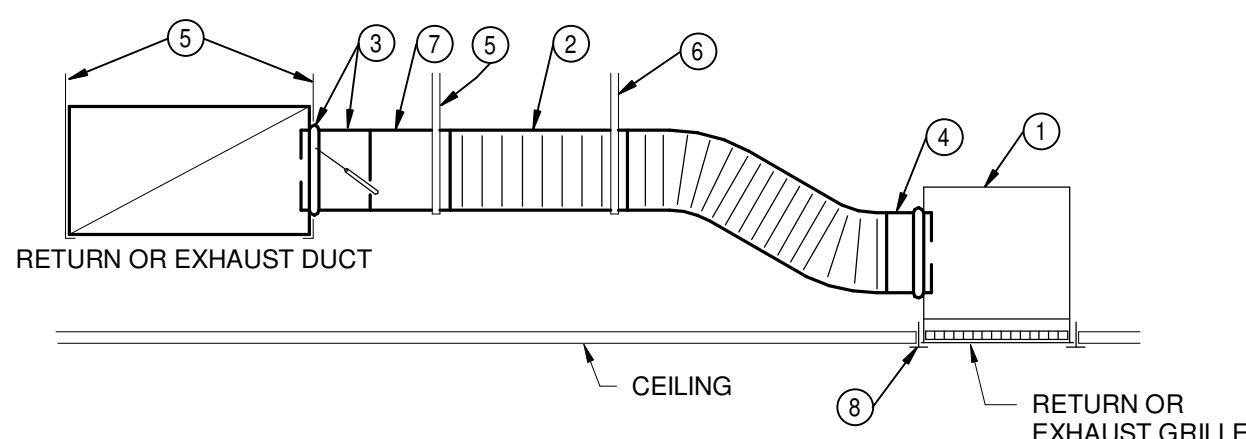


③ SIDEWALL DIFFUSER DETAIL NTS



- NOTES
- INSULATED FLEXIBLE DUCT SAME DIAMETER AS BRANCH DUCT, 6 FT. MAXIMUM TOTAL LENGTH PER AIR DEVICE. STRETCH FLEXIBLE DUCT TO AT LEAST 90% OF FULLY EXTENDED LENGTH.
 - SPIN-IN BRANCH TAP FITTING, STRAIGHT SIDE WITH MANUAL DAMPER. DAMPER SHAFT IN HORIZONTAL. INTEGRAL INSULATION GUARD SLEEVE REQUIRED FOR TAP FITTING TO MAIN DUCT WITH INTERNAL INSULATION, AND EXTENDED DAMPER SHAFT AND HANDLE WITH STAND-OFF TO ACCOMMODATE EXTERNAL INSULATION.
 - DUCT STRAP HANGER. ATTACH TO STRUCTURE.
 - ROUND SHEET METAL BRANCH DUCT, SAME SIZE AS DIFFUSER INLET UNLESS NOTED OTHERWISE.

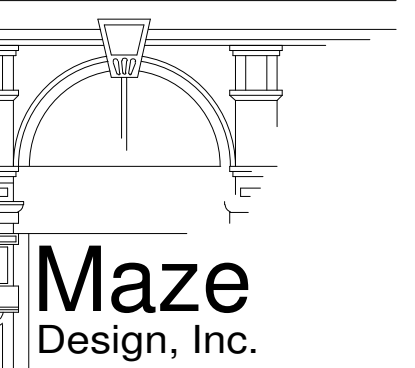
① CEILING DIFFUSER DUCT CONNECTION NTS



- NOTES
- SHEET METAL PLENUM, FULL SIZE OF GRILLE NECK, MINIMUM 4" TALLER THAN DUCT RUNOUT SIZE, WITH SAME INTERNAL OR EXTERNAL INSULATION AS RETURN OR EXHAUST DUCT, CONNECT TO GRILLE.
 - FLEXIBLE DUCT, SAME DIAMETER AS BRANCH DUCT, 7 FT. MAXIMUM TOTAL LENGTH PER AIR DEVICE. STRETCH FLEXIBLE DUCT TO AT LEAST 90% OF FULLY EXTENDED LENGTH.
 - SPIN-IN BRANCH TAP FITTING, STRAIGHT SIDE WITH MANUAL DAMPER. DAMPER SHAFT IN HORIZONTAL. INTEGRAL INSULATION GUARD SLEEVE REQUIRED FOR TAP FITTING TO MAIN DUCT WITH INTERNAL INSULATION. EXTENDED DAMPER SHAFT AND HANDLE WITH STAND-OFF REQUIRED FOR EXTERNALLY INSULATED DUCTWORK.
 - SPIN-IN TAP FITTING, NO DAMPER.
 - DUCT STRAP HANGER. ATTACH TO STRUCTURE.
 - STRAP HANGER REQUIRED IF LENGTH OF FLEXIBLE DUCT IS LONGER THAN 4 FT.
 - ROUND SHEET METAL BRANCH DUCT, SIZE AS INDICATED IN ADJACENT SCHEDULE UNLESS NOTED OTHERWISE ON PLANS.
 - CEILING T-BAR SUPPORT (FOR LAY-IN APPLICATIONS). COORDINATE AND VERIFY T-BAR TYPE FOR COMPATIBILITY WITH GRILLE.

② RETURN/EXHAUST GRILLE CONNECTION NTS

| HVAC DESIGN CRITERIA | | | |
|-----------------------------------|--|-----------------------------------|----------------------|
| GENERAL DESIGN INFORMATION | | OUTDOOR DESIGN INFORMATION | |
| LOCATION: | WINCHESTER, INDIANA | SUMMER DRY BULB: | 90.3°F (ASHRAE 0.4%) |
| | | SUMMER WET BULB: | 73.8°F (ASHRAE 0.4%) |
| | | WINTER DRY BULB: | 0.6°F (ASHRAE 99.6%) |
| APPLICABLE CODES | | INDOOR DESIGN INFORMATION | |
| MECHANICAL: | 2014 INDIANA MECHANICAL CODE | INDOOR SUMMER DRY BULB: | 75°F |
| PLUMBING: | 2012 INDIANA PLUMBING CODE | INDOOR SUMMER RELATIVE HUMIDITY: | 60% MAX |
| ENERGY: | ASHRAE 90.1-2007 | INDOOR WINTER DRY BULB: | 70°F |
| VENTILATION: | ASHRAE 62.1-2016 or 2014 INDIANA MECHANICAL CODE | INDOOR WINTER RELATIVE HUMIDITY: | AMBIENT |



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Project No. 2025128
Coordinator. JPO

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HVAC SCHEDULES
& DETAILS

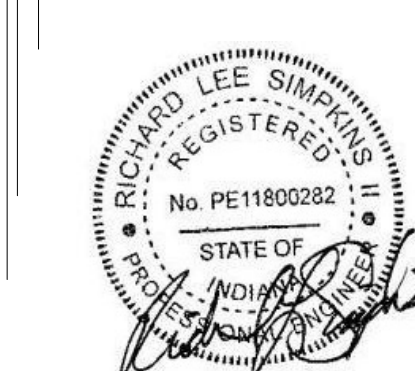
drawing

HO.2

DRAWING NOTES

1. EXTEND EXHAUST DUCT TO EXTERIOR WALL AND TERMINATE WITH WALL VENT CAP.
2. PROVIDE DUCT SMOKE DETECTOR AND SHUTDOWN RELAY ON RETURN DUCTWORK. ALL WIRING SHALL BE BY THE ELECTRICAL CONTRACTOR.
3. NEW ROOFTOP UNIT. UNIT SHALL BE LOCATED A MINIMUM OF 10'-0" FROM EDGE OF BUILDING. BALANCE VENTILATION AIR TO VALUE INDICATED IN SCHEDULE.
4. PROVIDE NEW FULLY DIGITAL 7 DAY PROGRAMMABLE TYPE THERMOSTAT WITH CLEAR LOCKABLE COVER.
5. COORDINATE DUCTWORK WITH OVERHEAD DOOR TRACK.
6. PROVIDE HIGH VOLUME LOW SPEED (HVLS) FAN MOUNTED TO ROOF STRUCTURE.
7. PROVIDE HVLS FAN CONTROLLER. COORDINATE FAN CONTROLLER LOCATION WITH OTHER TRADES.
8. HOLD DUCTWORK TIGHT TO STRUCTURE ABOVE.
9. MOUNT AIR DEVICE ON BOTTOM OF DUCT.

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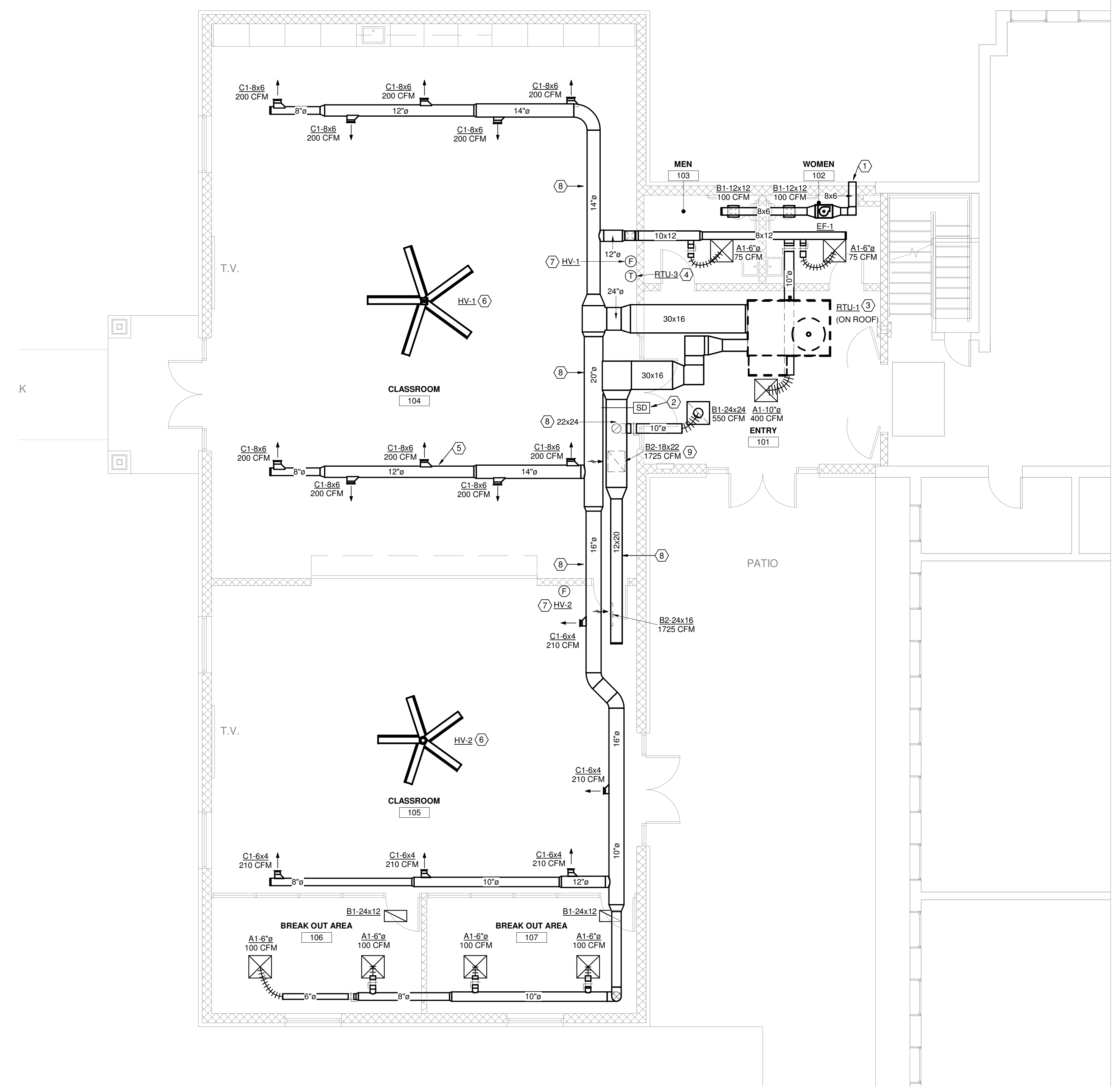
Project No. 2029128
 Coordinator JPO

Date 12-08-2025

Revision: No. Date

HVAC FLOOR
 PLAN

drawing
 H1.1



1 FIRST FLOOR HVAC PLAN
 3/16" = 1'-0"

PLUMBING SPECIFICATIONS

A. GENERAL CONDITIONS

- WORK UNDER THIS CONTRACT SHALL CONSIST OF, BUT NOT LIMITED TO: FURNISHINGS, INSTALLATION, TESTING, AND WARRANTY OF PLUMBING AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN.
- PLUMBING SHALL BE INSTALLED BY A LICENSED CONTRACTOR. WARRANTY SHALL BE FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
- THE WORD "PROVIDE" SHALL BE DEFINED TO MEAN "FURNISH AND INSTALL, COMPLETE, AND OPERATING."
- WHERE THE WORD "EQUAL TO" IS USED THE CONTRACTOR SHALL HAVE THE OPTION OF SELECTING BETWEEN ONE OF THE ADDITIONAL NAMES OR MANUFACTURERS LISTED OR MAY SUBMIT PRODUCTS SUBJECT TO ENGINEER'S APPROVAL.
- ALL PERMIT AND INSPECTION FEES ARE TO BE INCLUDED IN CONTRACTOR'S SCOPE.
- PROVIDE THE OWNER CERTIFICATES OF APPROVAL FROM INSPECTION AGENCIES.
- WORK MUST CONFORM TO ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS, ORDINANCES, AND REGULATIONS.

B. INSTALLATIONS

- INSPECT THE EXISTING FACILITY AND VERIFY LOCATIONS OF ALL EXISTING UTILITIES.
- DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS. HOWEVER, MAKE FIELD ADJUSTMENTS TO INSURE CORRECT FIT.
- PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL EQUIPMENT OR ABOVE ACCESS TO SAME PER "NEC" GUIDELINES.
- WORK SHALL BE PLANNED AND EXECUTED TO PROVIDE REASONABLY CONTINUOUS SERVICE OF EXISTING FACILITIES.
- PROVIDE WALL OR CEILING ACCESS PANELS WHERE REQUIRED FOR ACCESS TO CONCEALED VALVES, EQUIPMENT, ET. PANELS SHALL BE MINIMUM 18"x18" OR LARGER AS REQUIRED AND SHALL BE COMPATIBLE WITH THE AREA IN WHICH THEY ARE INSTALLED. PANELS IN FIRE RATED BUILDING ELEMENTS SHALL BE LABELED IN COMPLIANCE WITH THE RATING OF THE BUILDING ELEMENT.
- PROVIDE ALL CUTTING AND PATCHING NECESSARY TO INSTALL THE WORK. SAW CUT OR DRILL OPENINGS.
- ALL FERROUS METAL WHICH IS NOT FACTORY SHOP PAINTED, GALVANIZED WHICH WILL BE EXPOSED IN FINISHED AREAS OR OUTSIDE THE BUILDING SHALL BE PRIME COATED.
- PROVIDE PIPE SLEEVES AT PENETRATIONS OF BUILDING ELEMENTS. SLEEVES MAY BE GALVANIZED SHEET METAL OR STEEL PIPE. FIRE STOPPING SHALL BE PROVIDED AT ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. FIRE STOPPING SHALL BE UL LISTED AND PROVIDE A FIRE RATING EQUAL TO THAT OF THE CONSTRUCTION BEING PENETRATED.
- ALL WELDERS SHALL BE FULLY CERTIFIED IN ACCORDANCE WITH ASME QUALIFICATIONS.
- PROVIDE PIPE LABELING AND VALVE TAGGING USING MANUFACTURED LABELS: TAGS IN COMPLIANCE WITH ANSI A13.1
- FLUSH NEW PIPING SYSTEM PRIOR TO OPERATION. PROVIDE SERVICES OF A FIRM REGULARLY ENGAGED IN DISINFECTION SERVICES TO DISINFECT THE DOMESTIC WATER SYSTEM IN ACCORDANCE WITH AWWA GUIDELINES.
- BALANCE DOMESTIC HOT WATER RECIRCULATION SYSTEM TO FLOW RATES INDICATED ON THE DRAWINGS.
- PREPARE TEST AND INSPECTION REPORTS.
- TEST AND CERTIFY BACKFLOW PREVENTERS AND PRESSURE VACUUM BREAKERS ACCORDING TO CODE AND STANDARD PER AUTHORITY HAVING JURISDICTION.
- REPLACE DEFECTIVE PRODUCTS AND/OR MATERIALS WITH NEW.
- PROVIDE ATMOSPHERIC VENT DRAIN CONNECTION OR BACKFLOW PREVENTERS AND EXTEND PIPING TO FLOOR DRAIN FOR INDIRECT DISCHARGE WITH MINIMUM 2" AIR GAP.

C. INSTALLATIONS

- BEFORE CONSTRUCTION OR INSTALLATION OF MATERIALS OR EQUIPMENT: CONTRACTOR SHALL SUBMIT AN ELECTRONIC COPY OF SHOP DRAWINGS TO BE REVIEWED BY THE ENGINEER.
- SHOP DRAWINGS SHALL INDICATE INDIVIDUAL COMPONENTS, MODEL NUMBERS, AND ELECTRICAL INFORMATION.
- SHOP DRAWINGS FOR THE FOLLOWING SHALL BE SUBMITTED.
 - PIPE FITTINGS
 - VALVES
 - HEATERS
 - PLUMBING FIXTURES
 - INSULATION
 - DRAINS, CLEANOUTS, AND CARRIERS

D. TESTING

- ALL PIPING PROVIDED SHALL BE PRESSURE TESTED.
 - DOMESTIC WATER: HYDROSTATIC AT 125 PSI FOR 1.5 TIMES MAXIMUM OPERATING PRESSURE FOR 6 HOURS.
 - UNDERGROUND WATER: HYDROSTATIC AT 125 PSI FOR 6 HOURS AND/OR IN CONFORMANCE WITH AWWA PROCEDURES.
 - SOIL, WASTE, VENT, AND STORM: IN CONFORMANCE WITH PLUMBING CODE.
 - INTERIOR NATURAL GAS: 50 PSI COMPRESSED AIR FOR 6 HOURS.

- E. EXCAVATION:** EXCAVATE FOR ALL UNDERGROUND PIPING. BACKFILL AND COMPACT TO FINISH GRADE OR TO LEVELS CONSISTENT WITH THE GENERAL CONTRACTOR'S ACTIVITIES. PROVIDE COMPACTED BACKFILL OF GRADED PEA GRAVEL, GRADED COURSE SAND, OR CRUSHED LIMESTONE (MAXIMUM 0.75" SIZE) UNDER ANY PAVED OR OTHER HARD SURFACED AREAS. EXCAVATION, TRENCH WALL SUPPORTING AND OPEN TRENCH BARRICADING, AND SIGNAGE SHALL BE PER OSHA AND LOCAL REQUIREMENTS. A UTILITY LOCATOR SERVICE SHALL BE PROVIDED TO IDENTIFY AND/OR VERIFY THE LOCATION OF EXISTING PRIVATE UTILITIES WITHIN THE EXCAVATION AREA.
- F. HANGERS:** ALL INTERIOR ABOVE GRADE PIPING SHALL BE SUPPORTED BY ATTACHMENT TO THE BUILDING STRUCTURAL ELEMENTS. HANGER ROD SIZES AND HANGER/SUPPORT SPACING SHALL BE PER THE FOLLOWING SCHEDULES. FIRE SUPPRESSION HANGER AND SUPPORT REQUIREMENTS SHALL BE PER NFPA STANDARDS.

| PIPE SIZE | MINIMUM HANGER ROD DIAMETER |
|-----------|-----------------------------|
| ≤ 1" | 0.25" |
| 1.25"-3" | 0.375" |
| 4"-6" | 0.5" |

| PIPE MATERIAL SIZE | MAXIMUM HANGER/SUPPORT SPACING | |
|--------------------|--------------------------------|------------|
| | VERTICAL | HORIZONTAL |
| STEEL | BASE AND 15' | |
| COPPER | BASE AND 10' | |
| CAST IRON | BASE AND EACH FLOOR LEVEL | |
| PLASTIC | PER MANUFACTURER | |
| | HORIZONTAL | |
| STEEL/ ≤ 2" | 8' | |
| STEEL/ 2.5"-6" | 10' | |
| STEEL/ > 6" | 12' | |
| COPPER/ ≤ 1.25" | 6' | |
| COPPER/ ≤ 1.5"-2" | 8' | |
| COPPER/ > 2" | 10' | |
| CAST IRON | 10' AND EACH FITTING/JOINT | |
| PLASTIC | PER MANUFACTURER | |

G. INSULATION: PROVIDE INSULATION ON ALL NEW DOMESTIC WATER AND INTERIOR HORIZONTAL STORM DRAINAGE PIPING (INCLUDING HORIZONTAL OVERFLOW) AND INSULATION ON THE UNDERSIDE OF ALL ROOF DRAIN SUMP(S) WITH FIBERGLASS TUBULAR CLOSED CELL PIPE INSULATION IN COMPLIANCE WITH ASHRAE 90.1. FIBERGLASS INSULATION SHALL BE FACTORY MOLDED TUBULAR FIBERGLASS WITH ALL SERVICE JACKET, INTEGRAL VAPOR BARRIER, AND FACTORY ADHESIVE OVERLAPPING JOINTS. PROVIDE FACTORY MOLDED PVC COVERS AND INSULATION FOR FITTINGS, VALVES, AND DEVICES. TUBULAR CLOSED CELL INSULATION SHALL BE FOAM PLASTIC TYPE WITH PRESSURE-SENSITIVE ADHESIVE TAPE CLOSURE SYSTEM AND/OR VAPOR SEALING ADHESIVE. COMPOSITE INSULATING SYSTEMS SHALL NOT EXCEED A MAXIMUM FLAME SPREAD OF 25. ADEQUATE SMOKE DEVELOPMENT OF 50 AS ESTABLISHED BY NFPA TEST METHODS. FIBERGLASS INSULATION MANUFACTURERS: OWENS-CORNING, JOHNS MANVILLE, MASON, OR KNAUFF. TUBULAR CLOSED CELL INSULATION SHALL BE EQUAL TO ARMSTRONG ARMACELL ARMAFLEX 2000. INSULATION THICKNESS SHALL COMPLY WITH THE FOLLOWING SCHEDULE:

| PIPE SYSTEM | RUNOUTS <12' | ≤1" | 1.25"-2" | 2.5"-4" | 5'-6" | ≥6" |
|----------------------------|--------------|------|----------|---------|-------|------|
| DOMESTIC COLD WATER | 0.5" | 0.5" | 0.5" | 1.0" | 1.0" | 1.0" |
| DOMESTIC HOT WATER | 0.5" | 1.0" | 1.0" | 1.0" | 1.5" | 1.5" |
| DOMESTIC HOT RETURN | 0.5" | 1.0" | 1.0" | 1.5" | 1.5" | 1.5" |
| STORM (INCLUDING OVERFLOW) | - | - | - | 1.0" | 1.0" | 1.0" |

H. PLUMBING FIXTURES: PROVIDE PLUMBING FIXTURES COMPLETE WITH SUPPORTS, CARRIERS, AND SUPPLY AND WASTE TRIM. SURFACES TO EACH FIXTURE SHALL BE INDIVIDUALLY VALVED. ALL WASTE AND SUPPLY TRIM SHALL BE CHROME PLATED BRASS. FIXTURES SHALL BE WHITE UNLESS OTHERWISE SPECIFIED. SEAL JOINTS AROUND EACH FIXTURE AT THE WALL, FLOOR, AND ANY ADJACENT CONSTRUCTION. JOINT SEALANT SHALL BE ONE PART, MILDEW RESISTANT SILICONE, ASTM C920, TYPE S, GRADE NS, CLASS 25 WITH FUNGICIDE, EQUAL TO PECORA 898.

I. VALVES: VALVES SHALL BE TWO-PIECE, BRONZE BODY, BALL TYPE, 150 WSP, EQUAL TO NIBCO T-580-70, T-585-70, AND T-580-70-66. CHECK VALVES SHALL BE BRONZE, SWING TYPE, 125 WSP, EQUAL TO NIBCO T-413-Y. BALANCING SHUTOFF VALVES SHALL BE GLOBE TYPE, POSITIVE SHUTOFF DESIGN, 125 PSI, WITH MEMORY STOP, GAUGE PORTS, AND PORTABLE GAUGE KIT, EQUAL TO ARMSTRONG CBV SERIES.

J. PIPING

- INTERIOR DOMESTIC WATER: PIPING SHALL BE TYPE L SEAMLESS HARD DRAWN COPPER TUBING WITH WROUGHT COPPER OR CAST BRONZE FITTINGS AND SOLDERED JOINTS. SOLDER SHALL BE LEAD-FREE TIN ALLOW, 95-5 TIN-ANTIMONY, OR SILVER BEARING TIN. UNDER FLOOR BURIED PIPING SHALL BE TYPE K SOFT COPPER TUBING WITH SILVER BRAZED JOINTS. PIPE NIPPLES EXTENDING OUT OF THE WALL TO SERVE FIXTURES SHALL BE CHROME PLATED BRASS WITH SCREWED ENDS.
- INTERIOR SOIL, WASTE, AND VENT PIPING INCLUDING IN GRADE BELOW THE FLOOR SLAB, SHALL BE SCHEDULE 40 INTERIOR SOIL, WASTE, FITTING SHALL BE DRAINAGE TYPE. JOINTS SHALL BE SOLVENT WELDED. FLOOR DRAIN TRAPS SHALL BE THE SAME MATERIAL AS THE CONNECTING PIPING. PROVIDE CLEANOUTS WHERE SHOWN ON THE DRAWINGS AND WHERE REQUIRED BY THE GOVERNING PLUMBING CODE.
- EXTERIOR NATURAL GAS SERVICE PIPING: THE PIPING SHALL BE AS APPROVED BY THE GAS COMPANY. PIPING SHALL BE POLYETHYLENE PLASTIC, TYPE 2308 OR 2406, TYPE II, GRADE 3, OR PE3408 OR 3409, TYPE III, GRADE 3, CONFORMING TO ASTM D2513. FITTINGS SHALL BE MOLDED POLYETHYLENE AND JOINTS SHALL BE BUTT HEAT-FUSION TYPE CONFORMING TO ASTM D2513 AND D2683. UNDERGROUND VALVES SHALL BE PLASTIC BALL VALVE, 125 PSI, EQUAL TO NORDSTROM POLYVALVE. PROVIDE A VALVE BOX AND COVER AT GRADE. ABOVE GROUND VALVES SHALL BE IRON BODY LUBRICATED PLUG VALVE, 200 PSI, EQUAL TO NORDSTR0M #142 AND #143. PROVIDE MINIMUM 30" OF BURIAL DEPTH AND A COPPER TRACER WIRE. VERIFY WITH THE GAS COMPANY THE LOCATION OF CONNECTION TO SOURCE, AVAILABLE GAS PRESSURE, SERVICE SIZE, METER AND REGULATOR SETTING REQUIREMENTS, ETC. BEFORE INSTALLING ANY WORK. CONTRACTOR SHALL BE A FULLY QUALIFIED INSTALLER TO PERFORM COVERED TASKS AS REQUIRED BY THE DOT AND PUCCO OPERATOR QUALIFICATION RULE AND SHALL BE LISTED AS A QUALIFIED CONTRACTOR OF THE SERVICING GAS COMPANY.
- INTERIOR NATURAL GAS PIPING: PIPING SHALL BE SCHEDULE 40 BLACK STEEL, ASTM A53, TYPE E OR F. FITTINGS SHALL BE STEEL WELDING TYPE AND THREADED MALLEABLE IRON TYPE, CONSISTENT WITH JOINT REQUIREMENTS. JOINTS SHALL BE WELDED, EXCEPT THAT THREADED JOINTS MAY BE USED ON THREADED VALVES AND UNIONS, AT FINAL CONNECTIONS TO EQUIPMENT. VALVES, UNIONS, AND THREADED JOINTS ARE NOT PERMITTED IN INACCESSIBLE CONCEALED LOCATIONS. SHUTOFF VALVES 2" AND SMALLER SHALL BE TWO-PIECE FORGED BRASS BALL VALVE, 600 PSI NON-SHOCK WOG, SCREWED ENDS, EQUAL TO HAMMOND 8901. SHUTOFF VALVES 2.5" AND LARGER SHALL BE IRON BODY LUBRICATED PLUG VALVE, 200 PSI, FLANGED ENDS, EQUAL TO NORDSTR0M #143. MATERIALS AND INSTALLATION SHALL CONFORM TO THE INTERNATIONAL FUEL GAS CODE AND NFPA 54 NATIONAL FUEL GAS CODE. VENT PIPING SHALL BE EXTENDED INDIVIDUALLY FROM EACH GAS VENTING DEVICE TO OUTSIDE THE BUILDING.

GENERAL NOTES

- PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ALL FEES AND PERMITS ASSOCIATED WITH HIS PORTION OF THE WORK.
- PLUMBING CONTRACTOR SHALL COORDINATE ALL ASPECTS OF WORK WITH OTHER TRADES PRIOR TO AND DURING CONSTRUCTION/INSTALLATION.
- WORK PLANS TO BE CONSIDERED AS DIAGRAMMATIC AND ALONG WITH THE SPECIFICATIONS, REFLECT A MINIMUM ACCEPTABLE STANDARD. ALL WORK SHALL CONFORM TO THE INDIANA PLUMBING CODE, AND THE AMERICANS WITH DISABILITIES ACT GUIDELINES.
- UNLESS OTHERWISE NOTED, ALL FLOOR DRAINS SHALL BE THREE (3") INCH IN SIZE.
- WHEN A CONFLICT BETWEEN PLANS AND SPECIFICATIONS OR NOTES OCCURS, THE ENGINEER SHALL DECIDE WHICH GOVERNS. GENERALLY, THE MORE RESTRICTIVE, MORE SPECIFIC, OR STRICTER PROVISION SHALL GOVERN. IF ANY DISCREPANCIES ARE DISCOVERED ON THE PLANS OR BETWEEN THE PLANS AND THE SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER AND OBTAIN CLARIFICATION OF THE INTENT FROM THE ENGINEER PRIOR TO CONSTRUCTION OR INSTALLATION OF PROPOSED IMPROVEMENTS.
- REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE HEIGHTS AND ACCESSIBILITY REQUIREMENTS.

PIPING NOTES

- FIXTURES TO BE COMPLETE WITH SUPPLY PIPES WITH STOPS. SUPPLIES AND STOPS TO BE CHROME PLATE W/SET SCREW ESCUTCHIONS, WHERE EXPOSED TO VIEW.
- ACCESSIBLE SHUTOFF VALVES SHALL BE PROVIDED FOR EACH TOILET ROOM AND EXTERIOR WALL HYDRANTS. PLUMBING CONTRACTOR TO PROVIDE 8"x8" (MIN.) ACCESS PANELS FOR SHUTOFF VALVES WHERE REQUIRED, COORDINATE TYPE AND FINISH WITH DIV. 8 REQUIREMENTS.
- PROVIDE SHOCK ARRESTORS AT COLD AND HOT WATER CONNECTIONS TO WASHING MACHINE AND REFRIGERATOR ICE MAKER. PROVIDE AIR CHAMBERS AT WATER SUPPLY CONNECTIONS TO ALL OTHER FIXTURE OR PROVIDE SHOCK ARRESTORS PER FIXTURE GROUP AS RECOMMENDED BY PDI INSTITUTE AND MANUFACTURER.
- PLUMBING VENTS SHALL BE A MINIMUM OF 12'-0" FROM ANY HVAC OUTDOOR AIR OPENINGS.
- PROVIDE CLEANOUTS AT BASE OF ALL DWV AND STORM RISERS AND WITHIN 5'-0" (EITHER SIDE) OF EXTERIOR WALL AS REQUIRED BY CODE, WHETHER OR NOT DIRECTLY INDICATED ON PLUMBING PLAN.
- DRAINAGE (STORM OR SANITARY) PIPE SIZE BELOW FLOOR TO BE 2" MINIMUM. FOR SIZES REFER TO PLANS AND ISOMETRICS.
- ROOF DRAIN PIPING TO BE ROUTED AT 1/8" PER FOOT PITCH UNLESS OTHERWISE NOTED ON DRAWINGS.
- COORDINATE PLACEMENT OF ROOF DRAINS, ROOF DRAIN OVERFLOW UNITS AND INSTALLATION OF TAPERED ROOF INSULATION. INSULATE ROOF DRAIN ASSEMBLY AND STORM WATER PIPING THE ENTIRE LENGTH OF INITIAL HORIZONTAL RUN INCLUDING ELBOW DOWN TO VERTICAL. REFER TO SCHEDULE FOR ADDITIONAL INFORMATION.
- ROUTE GAS AND WATER PIPING AS HIGH AS POSSIBLE, OFFSET WHERE IN CONFLICT WITH OTHER TRADES.
- GAS MAIN ROUTED THROUGH CEILING SPACE SHALL BE INSTALLED IN SUCH A MANNER SO AS NOT TO SUBJECT PIPING TO POSSIBLE DAMAGE. VALVES SHALL NOT BE INSTALLED IN CEILING SPACE.
- NATURAL GAS EQUIPMENT CONNECTIONS SHALL BE PROVIDED WITH VALVES, UNIONS, DIRT LEGS, ETC. AS NECESSARY FOR A COMPLETE INSTALLATION. INSTALL "AGA" APPROVED FLEXIBLE GAS SUPPLY CONNECTION WHERE SPECIFICALLY NOTED. REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- BACKFILL AROUND UNDERGROUND PIPING WITH 3/8" CLEAN (CA-16) GRAVEL ALL AROUND. BACKFILL A MINIMUM OF TWO TIMES THE PIPE OUTSIDE DIAMETER, PRIOR TO FINAL BACKFILL. PVC PIPING SHALL BE PROPERLY SUPPORTED EVERY 4'-0" ALONG ITS HORIZONTAL RUN PRIOR TO BACKFILLING.
- DWV, SUPPLY, GAS AND STORM PIPING Routed THROUGH FINISHED AREAS SHALL BE CONCEALED ABOVE CEILING OR IN FURRED-OUT WALL. DWV, SUPPLY, GAS AND STORM PIPING PIPING SHALL NOT BE EXPOSED IN FINISHED AREAS, EXCEPT WHERE NOTED ON DRAWINGS.

EQUIPMENT NOTES:

- INSTALL AL THERMOMETERS IN ACCESSIBLE AND READABLE POSITIONS.

FINISH NOTES:

- PAINT ALL PLUMBING PIPE SUPPORTS WITH A RUST INHIBITIVE PRIMER AND TWO COATS OF GLOSS GRAY OR BLACK ENAMEL OR ACRYLIC PAINT.
- PAINT ALL UNINSULATED/UNJACKETED PLUMBING PIPING EXPOSED TO OUTDOORS, INCLUDING PIPING COMPONENTS, VALVES, UNIONS, & ETC., WITH ONE COAT OF RUST INHIBITIVE PRIMER AND TWO COATS OF GLOSS ENAMEL OR ACRYLIC PAINT.
- THE PLUMBING CONTRACTOR SHALL PROVIDE ALL FIRESTOPPING FOR PLUMBING PIPE PENETRATIONS THROUGH SMOKE AND FIRE RATED ASSEMBLIES. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL RATED ASSEMBLIES. ALL PENETRATIONS SHALL BE FIRESTOPPED TO ORIGINAL ASSEMBLY RATING AND FLOOR PENETRATIONS SEALED WATER TIGHT WITH A FLEXIBLE SEALANT.

PLUMBING LEGEND

| SYMBOL | DESCRIPTION | ABBREVIATIONS |
|-----------|-------------------------------------|--|
| ---v--- | VENT PIPING | ADA AMERICAN WITH DISABILITIES ACT |
| -SAN- | SANITARY PIPING | AFF ABOVE FINISHED FLOOR |
| -GW- | GREASE WASTE PIPING | BFP BACKFLOW PREVENTER |
| -NG- | NATURAL GAS PIPING | CO CLEANOUT |
| -CW- | DOMESTIC COLD WATER PIPING | CW DOMESTIC COLD WATER |
| -HW- | DOMESTIC HOT WATER PIPING | DS DOWNSPOUT |
| -HWR- | DOMESTIC HOT WATER RETURN PIPING | ET EXPANSION TANK |
| ○ | BALL VALVE | EX EXISTING |
| ∩ | CHECK VALVE | FCO FLOOR CLEANOUT |
| ↺ | BALANCING VALVE | FD FLOOR DRAIN |
| ↺ | BACKFLOW PREVENTER | FSEC FOOD SERVICE EQUIPMENT CONTRACTOR |
| 🔧 | HOT WATER RETURN RECIRCULATION PUMP | GMR GAS METER/REGULATOR |
| —○— | PIPE CAP | GS GAS SERVICE |
| —○— | PIPE UP | GT GREASE TRAP OR KITCHEN WASTE |
| —○— | PIPE DOWN | HB HOSE BIBB |
| --- | EXISTING PIPING TO REMAIN | HW DOMESTIC HOT WATER |
| - - - - - | EXISTING PIPING TO BE DEMOLISHED | HWR DOMESTIC HOT WATER RETURN |
| --- | NEW PIPING | IND INDIRECT WASTE |
| ▶ | FLOW ARROW | LV LAVATORY |
| # | KEYNOTE DESIGNATION | MB MOP BASIN |
| K# | KITCHEN EQUIPMENT DESIGNATION | NG NATURAL GAS |
| 1 P1.1 | DETAIL DESIGNATION | NP NON POTABLE WATER |
| | | NTS NOT TO SCALE |
| | | OD OVERFLOW STORM DRAIN |
| | | ODS OVERFLOW DOWNSPOUT |
| | | SAN SANITARY |
| | | SD STORM DRAIN |
| | | SK SINK |
| | | TP TRAP PRIMER |
| | | TYP. TYPICAL |
| | | UR URINAL |
| | | VR VENT RISER |
| | | VS VENT STACK |
| | | VTR VENT THRU ROOF |
| | | WC WATER CLOSET |
| | | WCO WALL CLEANOUT |
| | | WH WATER HEATER |
| | | WS WATER SERVICE |
| | | WTC WATER COOLER |
| | | YCO YARD CLEANOUT |

PLUMBING INDEX OF DRAWINGS

| SHEET NUMBER | SHEET NAME |
|--------------|-----------------------------------|
| P0.1 | PLUMBING LEGEND AND GENERAL NOTES |
| P0.2 | PLUMBING SCHEDULES & DETAILS |
| P1.1 | PLUMBING FLOOR PLANS |

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WINCHESTER,
INDIANA

Project No. ... 2025128
Coordinator ... JDO

Date ... 12-08-2025

Revision No. ... Date

PLUMBING
LEGEND AND
GENERAL NOTES

drawing
P0.1

| GAS PIPE SIZING | |
|-------------------------|---------|
| PIPE SIZE (BLACK STEEL) | MAX MBH |
| 0.5" | 72 |
| 0.75" | 151 |
| 1" | 284 |

GENERAL NOTES:

- SIZING BASED ON LESS THAN 2 PSIG PRESSURE, 0.5 PSIG DROP PER TABLE 402.4(2) OF IFGC
- TOTAL DEVELOPED LENGTH = 50 FT.

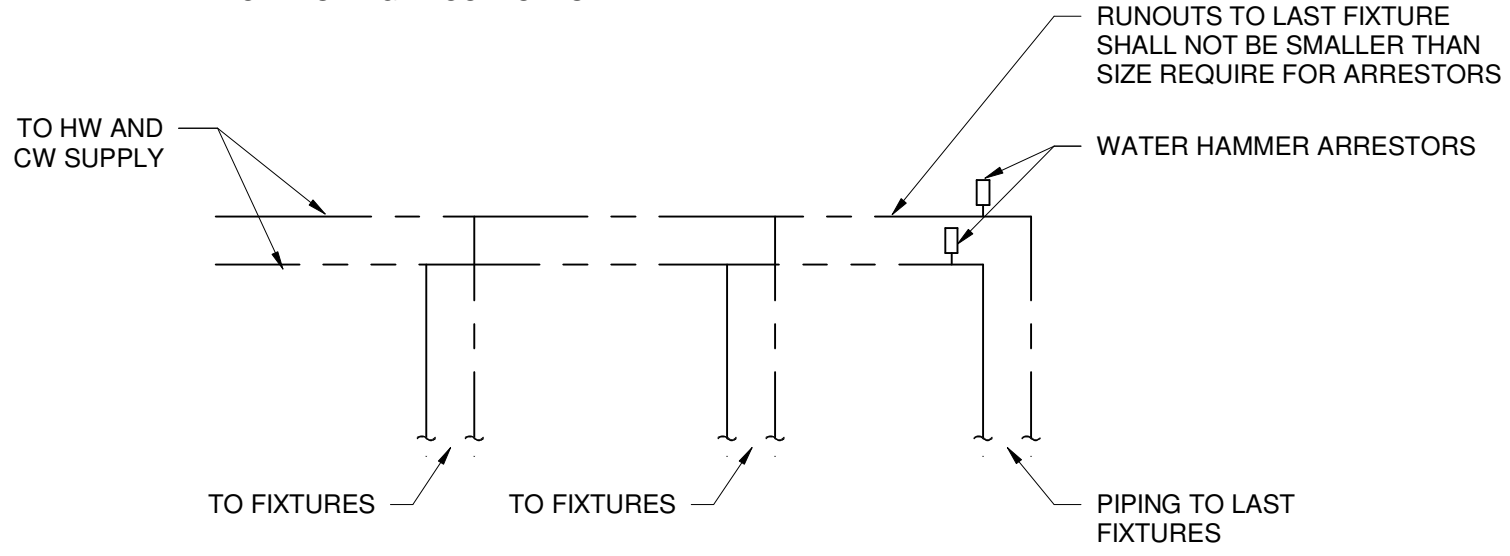
| WATER HAMMER ARRESTOR SIZING CHART | | |
|------------------------------------|---------------------|------------------------------------|
| FIXTURE UNIT RATING | FIXTURE UNIT RATING | PIPE SIZE (FOR 50' OF PIPE LENGTH) |
| 1-11 | J.R. SMITH 5005 | 3/4" |
| 12-32 | J.R. SMITH 5010 | 1" |
| 33-60 | J.R. SMITH 5020 | 1" |
| 61-113 | J.R. SMITH 5030 | 1" |
| 114-154 | J.R. SMITH 5040 | 1" |
| 155-300 | J.R. SMITH 5050 | 1" |

GENERAL NOTES

A. PIPING WITH SEVERAL FIXTURES ON BRANCH LINE SHALL HAVE ARRESTOR MOUNTED AT THE END OF THE BRANCH LINE BETWEEN THE LAST TWO FIXTURES SERVED.

B. SIZING IS BASED ON 65 PSI OR LESS. WHEN OPERATIONG PRESSURE EXCEEDS 65 PSI, USE THE NEXT LARGER UNIT.

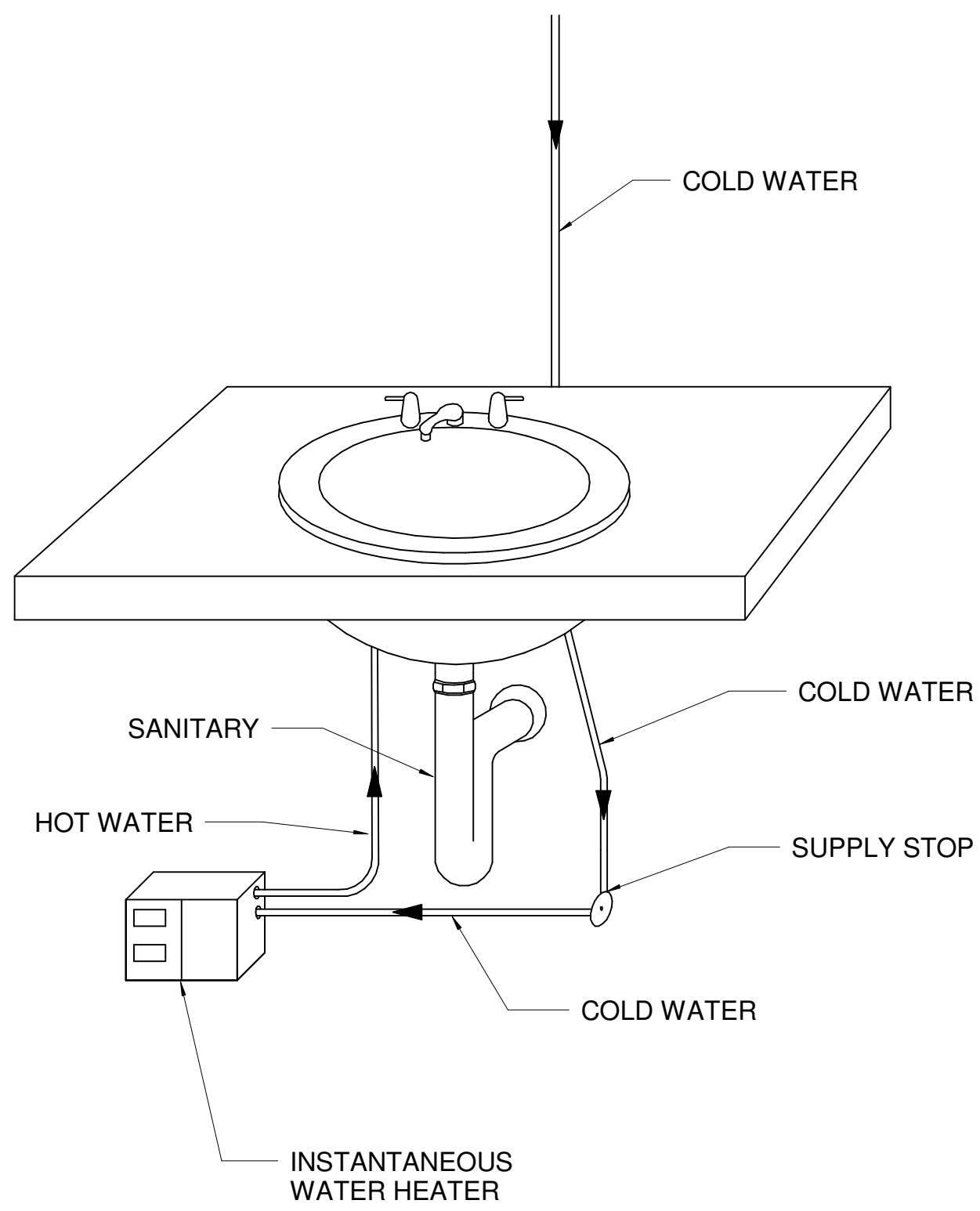
C. REFER TO P.D.I. (PLUMBING DRAINAGE INSTITUTE STANDARD PDI WH-201) FOR ADDITIONAL SIZING PROCEDURES.



NOTE: USE TABLE 10-1 UNIFORM PLUMBING CODE FOR FIXTURES UNITS FOR SIZING WATER HAMMER ARRESTORS. TABLE APPLIES TO BOTH UPC & IPC.

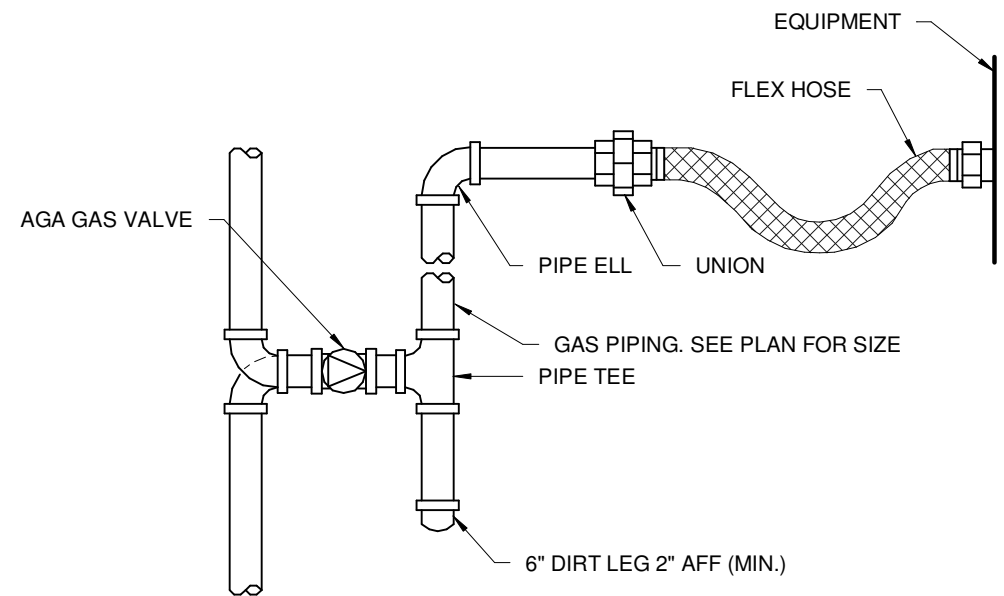
⑤ WATER HAMMER ARRESTOR

NTS



① INSTANTANEOUS WATER HEATER

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② GAS EQUIPMENT CONNECTION

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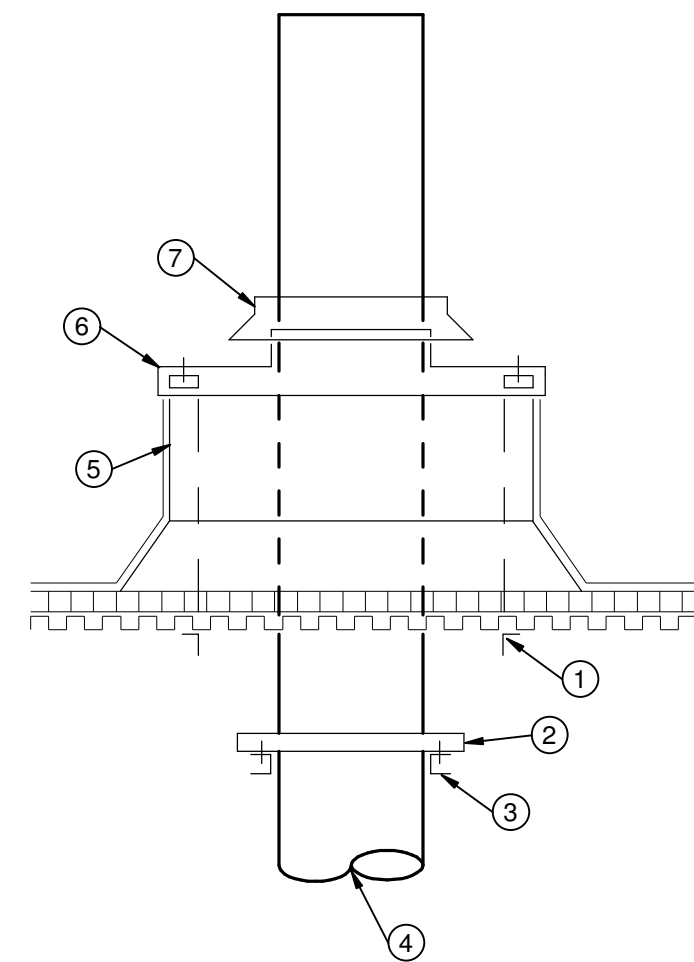
| PLUMBING FIXTURE SCHEDULE | | | SAN. | VENT | CW | HW | ACCESSORIES | | | | |
|---------------------------|--------------|--|------|------|-------|------|-------------|--|--|--|--|
| A1 | WATER CLOSET | AMERICAN STANDARD MODEL #2234.001.020 "MADERA", WHITE VITREOUS CHINA; WITH OLSONITE #95 ELONGATED, WHITE, OPEN FRONT, NO COVER SEAT, 3240 STAINLESS HINGE WITH CHECK; 481310-100 BOLT CAPS; SLOAN ROYAL #1111-1.6 MANUAL FLUSH VALVE. | 3.0" | 1.5" | 1.00" | | | | | | |
| B1 | LAVATORY | AMERICAN STANDARD MODEL #0355.012 "LUCERNE", WALL MOUNT, WHITE VITREOUS CHINA, 4" CENTER FAUCET HOLES; ELKAY MODEL #LK422L4, SINGLE CONTROL CENTERSET FAUCET W/ 4" CENTER; 1/2" SUPPLY AND STOP (TWO REQUIRED); 1-1/2" CAST BRASS L.A. P-TRAP, SUPPLY AND INSTAL PLUMEX #3011 WHITE-DRAIN INSULATOR. | 1.5" | 1.5" | 0.50" | 0.5" | | | | | |
| B2 | SINK | ELKAY MODEL #ELUHAD131650PD STAINLESS STEEL, UNDERMOUNT, ADA, 16"x18.5"x5" SINGLE BOWL, LKPD1 PERFECT DRAIN AND STRAINER INCLUDED; ELKAY MODEL #LK535GN05L2, SINGLE HOLE FAUCET WITH 5" GOOSENECK AND 2" LEVER HANDLE; 1/2" SUPPLY AND STOP (TWO REQUIRED); 1-1/2" CAST BRASS L.A. P-TRAP. | 1.5" | 1.5" | 0.50" | 0.5" | | | | | |

| PLUMBING EQUIPMENT SCHEDULE | | | COLD WATER | HOT WATER (120°F) | HOT WATER (140°F) | NATURAL GAS | NON POTABLE | WASTE | INDIRECT | FLOOR DRAIN | NOTES |
|-----------------------------|---|-------|------------|-------------------|-------------------|-------------|-------------|-------|----------|-------------|-------|
| FPWH-1 | FREEZE PROOF WALL HYDRANT-WOODFORD MODEL #65 SERIES, FREEZELESS, AUTOMATIC DRAIN, VACUUM BREAKER, BRASS FINISH, AND STAINLESS STEEL TRIM. | 0.75" | | | | | | | | | |
| EW-1 | ELECTRIC TANKLESS WATER HEATER - EQUAL TO EEMAX LAVADVANTAGE SPEX4208T-N4X: 204V/1PH, 4.1 KW | 3/8" | 3/8" | | | | | | | | |
| EW-2 | ELECTRIC TANKLESS WATER HEATER - EQUAL TO EEMAX LAVADVANTAGE SPEX4208T-N4X: 204V/1PH, 4.1 KW | 3/8" | 3/8" | | | | | | | | |
| EW-3 | ELECTRIC TANKLESS WATER HEATER - EQUAL TO EEMAX LAVADVANTAGE SPEX4208T-N4X: 204V/1PH, 4.1 KW | 3/8" | 3/8" | | | | | | | | |

| DRAIN AND CLEANOUT SCHEDULE | | APPROVED SUPPLIERS - J.R. SMITH, JOSAM, WATTS, ZURN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|------------------|---|------|------|------|-----------|-------|--------------|-----------------|--------|-------------|----------------|--------------|------|------|------------|--------|--------|-----------|---------------------|-----------|----------------|-----------------|----------|---------------|----------------|--------------|-------------|--------------|-----------|-------------|-------------|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|
| PLAN MARK | ZURN CATALOG NO. | TYPE | | | | BODY | | | | OUTLET | | STRAINER/GRATE | | | | TOP FINISH | | | | ADDITIONAL FEATURES | | | | SEE NOTE | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | FLOOR | ROOF | WALL | DECK | CAST IRON | BRASS | ACID RESIST. | STAINLESS STEEL | SIZE | BOTTOM SIDE | SIZE | ADJUSTABLE | FLAT | DOME | RECESSED | FUNNEL | HINGED | 1/2 GRATE | NICKEL-BRONZE | CAST IRON | POLISHED BRASS | STAINLESS STEEL | | ANCHOR FLANGE | FLASHING CLAMP | DBL DRAINAGE | SED. BUCKET | AUX STRAINER | GRAVELTOP | UDECK CLAMP | TRAP PRIMER | | | | | | | | | | | | | | | | | |
| DSN-1 | JR SMITH #1775 | | | | X | | | | X | 3" | X | X | 3-1/2" | | X | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FD-1 | ZN415-BZ1 | | X | | | | | | | 3" | X | | 7" | | X | | | | | | X | | | | | X | X | X | | | | | | | | | | | | | | | | 1 | | | | | |
| FCO | ZN1400-BZ1 | | X | | | | | | X | 6" | X | | 7-7/8" | | X | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GCO | Z1474-VP | | X | | | | | | X | | | | | | X | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RD-1 | Z100F | | | | | | | | X | 3" | X | | 12-5/16" DIA | | | | | | | | X | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | | |
| OD-1 | Z100F W/ 3" DAM | | | | | | | | X | 3" | X | | 12-5/16" DIA | | | | | | | | X | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | | |

NOTES:

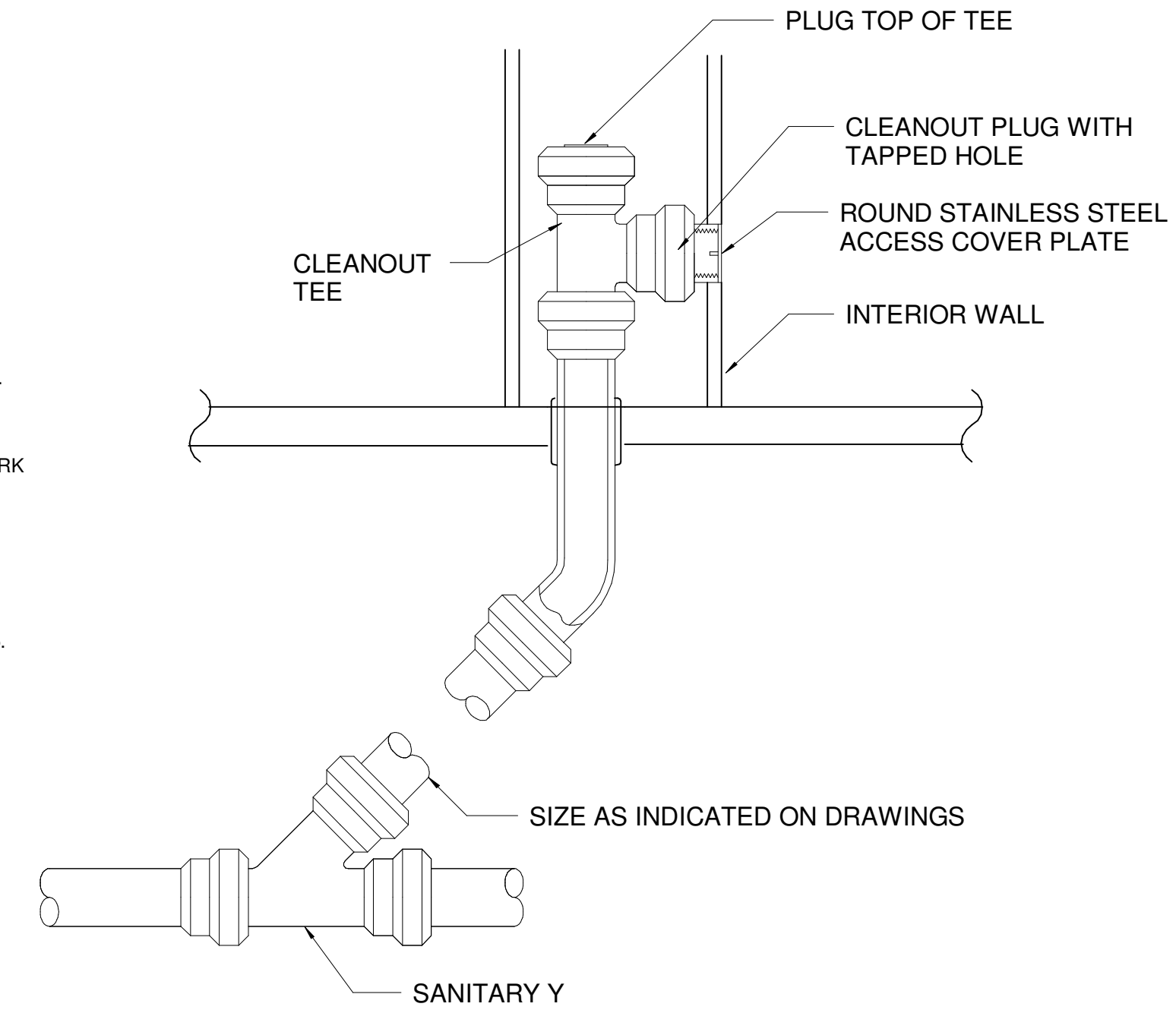
- PROVIDE TRAP SEAL PROTECTION DEVICE EQUAL TO Z1072.



④ VENT DUCTS THRU ROOF

NTS

- NOTES**
- STRUCTURAL FRAMING FOR OPENING. COORDINATE REQUIRED OPENING DIMENSIONS.
 - SUPPORT RING. FASTEN TO DUCTWORK AND CHANNEL.
 - CHANNEL SUPPORT FROM ADJACENT JOISTS.
 - FROM EQUIPMENT.
 - 14" HIGH CURB. EQUAL TO PATE PCA-5.
 - CURB CAP EQUAL TO PATE PCC.
 - STORM COLLAR FASTEN TO PIPE.



③ WALL CLEANOUT

NTS

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Coordinator. JPO

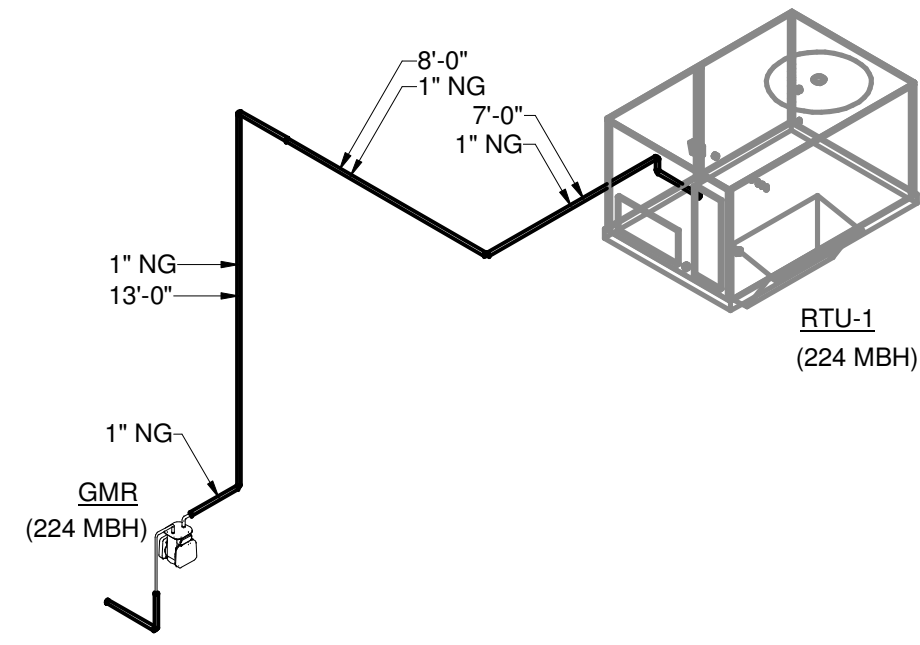
Date..... 12-08-2025

Revision No. Date

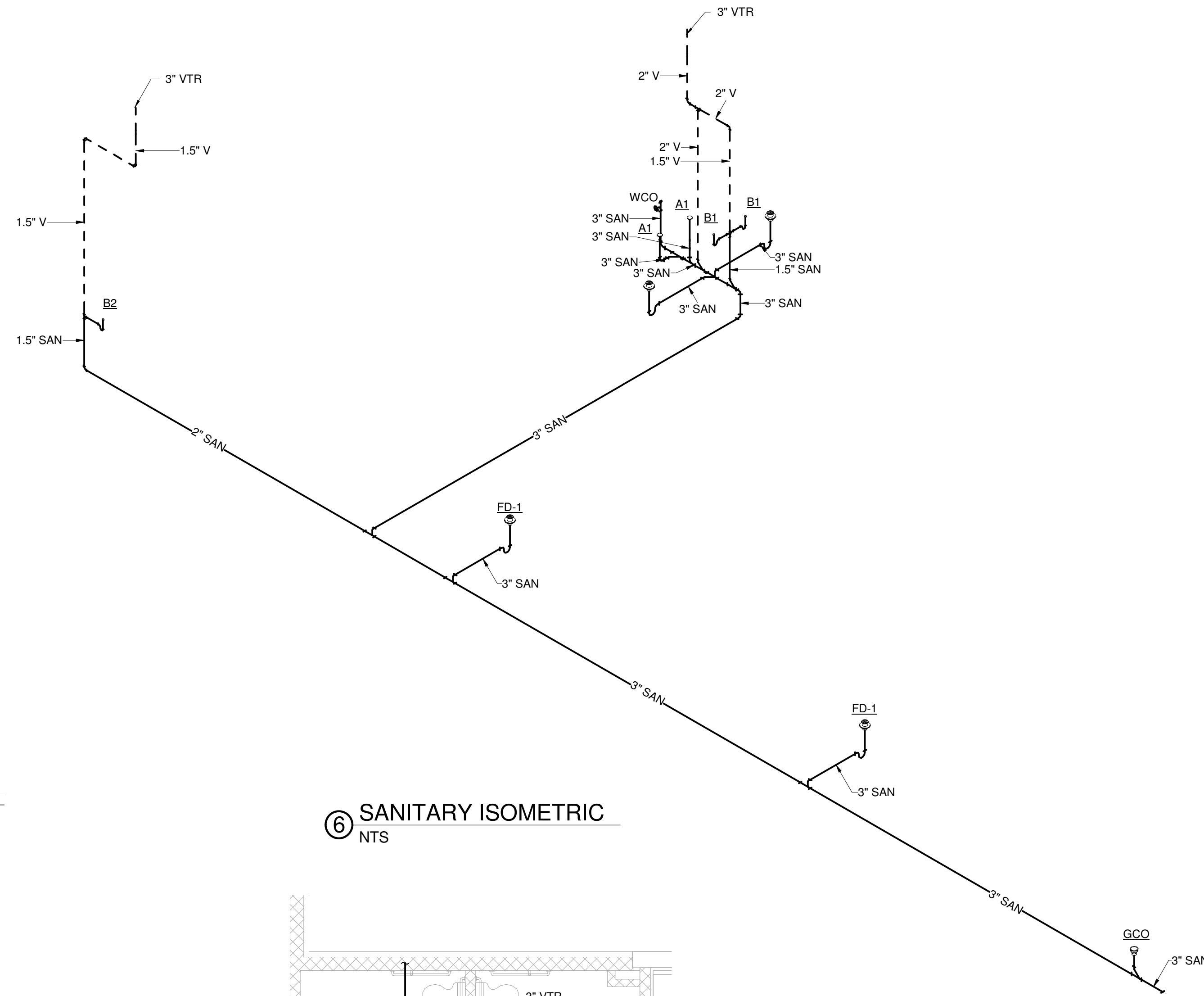
PLUMBING
SCHEDULES &
DETAILS

drawing

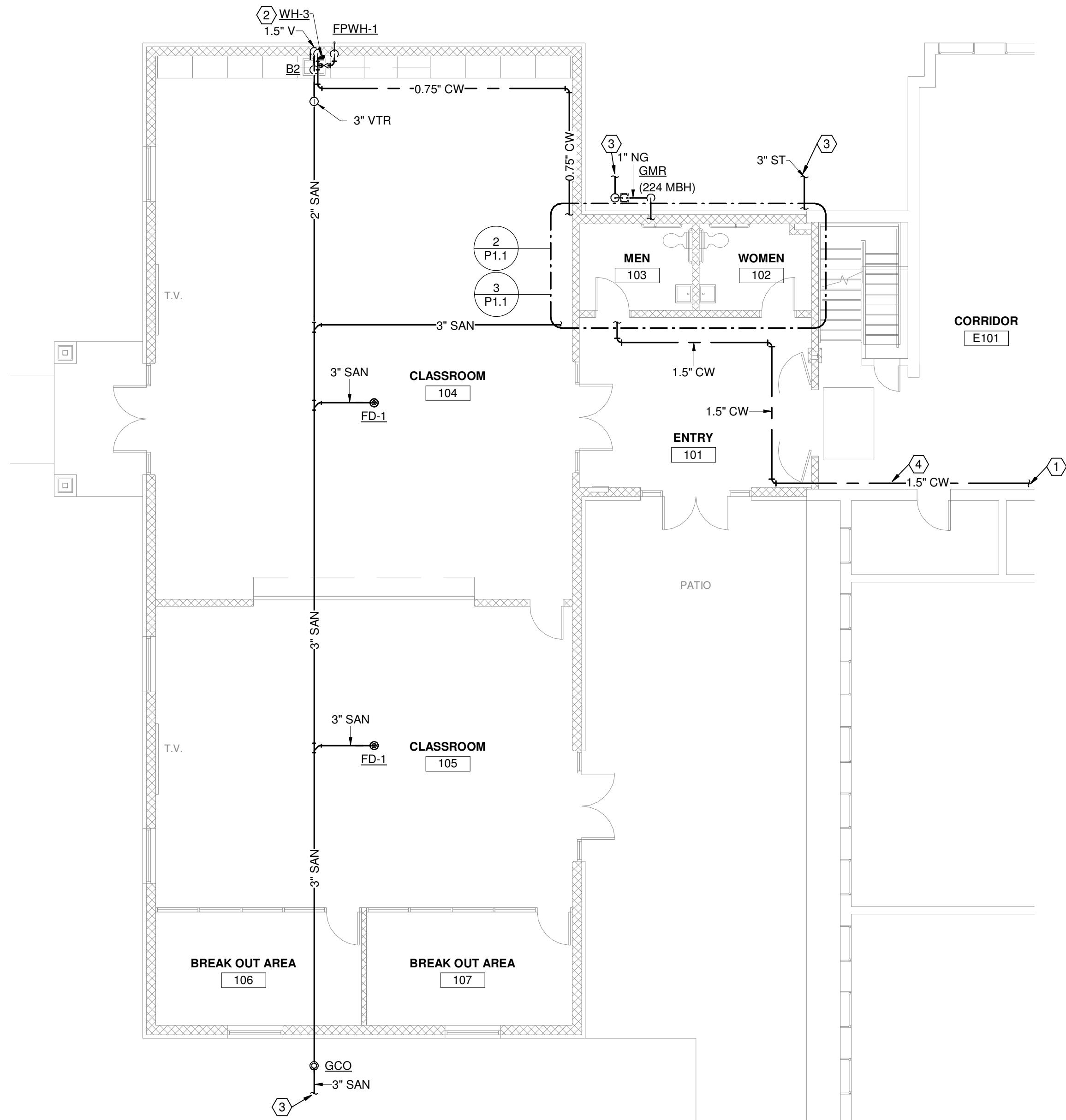
PO.2



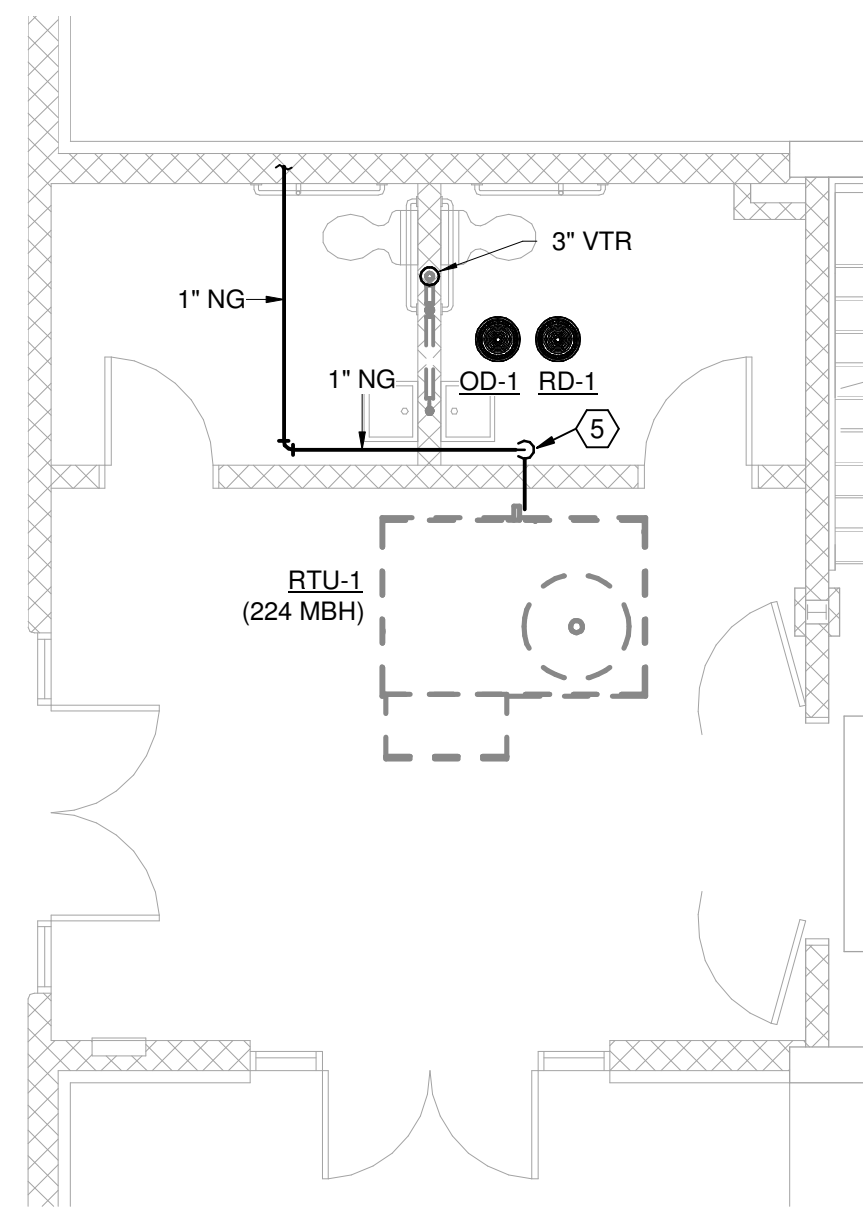
⑤ NATURAL GAS ISOMETRIC
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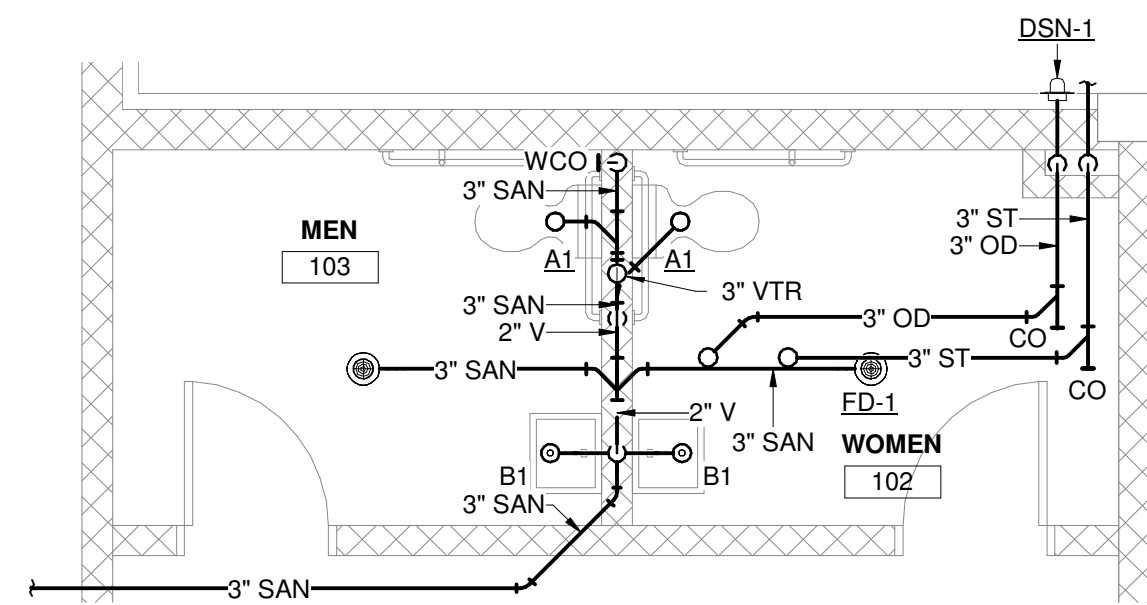
⑥ SANITARY ISOMETRIC
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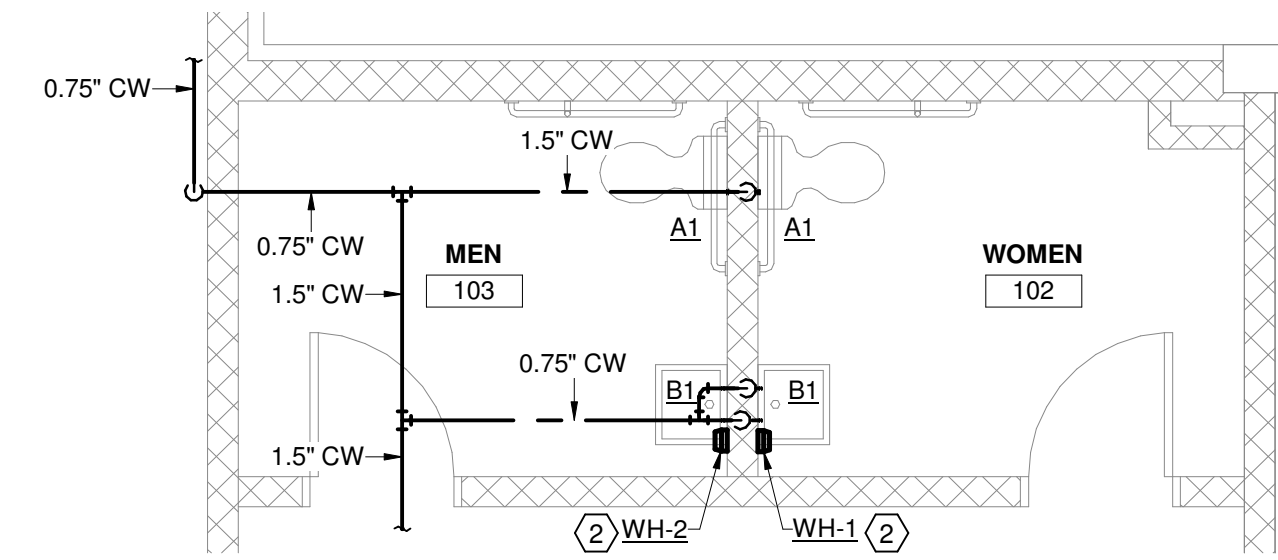
① PLUMBING PLAN - OVERALL
1/8" = 1'-0"



④ CORRIDOR ROOF PLAN
3/16" = 1'-0"



② PLUMBING PLAN - SANITARY
1/4" = 1'-0"



③ PLUMBING PLAN - DOMESTIC
1/4" = 1'-0"

DRAWING NOTES

1. EXTEND 1.5" COLD WATER PIPING TO EXISTING 1.5" MAIN LOCATED IN UTILITY TUNNEL OF EXISTING BUILDING. CONTRACTOR SHALL COORDINATE EXACT TIE-IN LOCATION WITH FACILITY MANAGER PRIOR TO ROUGH-IN.
2. ELECTRIC POINT OF USE WATER HEATER MOUNTED BELOW SINK. SET OUTPUT TEMPERATURE TO 110°F MAX. REFER TO INSTANTANEOUS WATER HEATER DETAIL FOR ADDITIONAL INFORMATION.
3. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
4. ROUTE COLD WATER PIPING IN SOFFIT. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
5. PROVIDE DIRT LEG, GAS ISOLATION VALVE, UNION, AND FLEXIBLE HOSE CONNECTION TO MECHANICAL EQUIPMENT. REFER TO DETAIL FOR ADDITIONAL INFORMATION.

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WINCHESTER,
 INDIANA

Project No. 2025128
 Coordinator: JPO

Date: 12-08-2025

Revision: No. Date

PLUMBING FLOOR
 PLANS

drawing

PI.1

GENERAL LIGHTING/POWER NOTES

- LIGHT FIXTURES DESIGNATED AS "NIGHT LIGHTS" SHALL BE ON UNSWITCHED CIRCUIT, UNLESS NOTED.
- EXIT LIGHTS SHALL BE ON UNSWITCHED CIRCUIT, UNLESS NOTED.
- ALL RECESSED DOWNLIGHTS MOUNTED IN GRID CEILING SHALL BE CENTERED IN CEILING TILE, UNLESS NOTED.
- IN ALL MECHANICAL ROOMS, COORDINATE EXACT LOCATION OF LIGHT FIXTURES WITH HVAC DUCTWORK.
- CONDUCTORS FOR BRANCH CIRCUITRY ARE #12 AWG MINIMUM, UNLESS NOTED. DERATE PER CODE WHERE CIRCUITS ARE COMBINED.
- ALL HOMERUN CONDUCTORS BACK TO PANEL SHALL BE #10 AWG MINIMUM, UNLESS NOTED. PROVIDE A GREEN GROUND CONDUCTOR IN ALL BRANCH CIRCUITRY. DERATE PER CODE WHERE CIRCUITS ARE COMBINED.
- ALL CONDUIT DROPS FOR PLENUM RATED CABLES SHALL BE PROVIDED WITH A CONDUIT BUSHING ABOVE CEILING.
- WHERE TERMINATED IN J-BOX, ALL SPARE CIRCUITRY SHALL BE LABELED WITH PANEL AND CIRCUIT NUMBER.
- COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE ALL NECESSARY AUXILIARY CONTACTS, RELAY, ETC. IN MOTOR STARTERS FOR REQUIRED CONTROL OF MECHANICAL EQUIPMENT.
- DO NOT SUPPORT CONDUIT OFF OF CEILING GRID, CEILING GRID SUPPORTS, MECHANICAL SUPPORTS, OR ANY OTHER TRADES' SUPPORTS. INSTALL CONDUITS AND BOXES ON SEPARATE SUPPORTS FROM BAR JOIST OR STRUCTURE.
- NEW FIRE ALARM DEVICES SHOWN FOR REFERENCE ONLY. FINAL DESIGN AND PERMIT DRAWINGS TO BE PROVIDED BY FIRE ALARM MANUFACTURERS THROUGH A DELEGATED DESIGN APPROACH. ANNUNCIATING STROBES SHALL BE SYNCHRONIZED. PROVIDE ADEQUATE POWER FOR NEW PANELS TO SUPPORT ALL NEW DEVICES PROVIDING ADDITIONAL 20% CAPACITY ON NAC CIRCUIT.

ABBREVIATIONS

| | |
|-------|---------------------------|
| A | AMPS |
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| BKR | BREAKER |
| C | CONDUIT |
| CATV | CABLE TELEVISION |
| CUH | CABINET UNIT HEATER |
| CKT | CIRCUIT |
| Cu | COPPER |
| E | EXISTING |
| EF | EXHAUST FAN |
| ELEC | ELECTRICAL |
| EM | EMERGENCY |
| EMT | EMERGENCY METALLIC TUBING |
| FCU | FAN COIL UNIT |
| G | GROUND |
| GFI | GROUND FAULT INTERRUPTER |
| GRC | GALVANIZED RIGID CONDUIT |
| HP | HORSEPOWER |
| J | JUNCTION BOX |
| KVA | KILOVOLT AMPERE |
| KW | KILOWATTS |
| LG TG | LIGHTING |
| MECH | MECHANICAL |
| NIC | NOT IN CONTRACT |
| NL | NIGHT LIGHT |
| NTS | NOT TO SCALE |
| PVC | POLYVINYL CHLORIDE |
| P | PHASE (POLE) |
| TTB | TELEPHONE TERMINAL BOX |
| TYP | TYPICAL |
| UON | UNLESS OTHERWISE NOTED |
| UV | UNIT VENTILATOR |
| V | VOLTS |
| VAV | VARIABLE AIR VOLUME |
| VIF | VERIFY IN FIELD |
| W | WATTS |
| WC | WATER COOLER |
| WP | WEATHERPROOF |
| UH | UNIT HEATER |
| UNO | UNLESS NOTED OTHERWISE |

GENERAL PROJECT NOTES

- WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL, STATE OF INDIANA, 2009 NEC AND NATIONAL CODES, RECOMMENDATIONS, REGULATIONS, AND REQUIREMENTS.
- COORDINATE ELECTRICAL REQUIREMENTS FOR NEW WORK WITH THE PLUMBING AND MECHANICAL CONTRACTORS. VERIFY VOLTAGE, PHASE AND ACCESSORY REQUIREMENTS, SUCH AS MOTOR STARTERS AND DISCONNECTS.
- CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING AS REQUIRED FOR HIS WORK. OPENING IN WALLS, FLOORS AND CEILINGS SHALL BE FILLED IN, PATCHED, PAINTED AND FINISHED IN A MANNER TO MATCH THE QUALITY OF THE EXISTING, LIKE ADJACENT SURFACES.
- NEW OPENINGS IN EXISTING WALLS AND FLOORS SHALL BE CORE DRILLED OR SAW CUT. OPENINGS IN NEW WALLS AND FLOORS SHALL BE PLANNED AND COORDINATED WITH GENERAL CONTRACTOR FOR THE INSTALLATION OF APPROPRIATE SLEEVES.
- ALL CONDUIT SHALL BE 3/4" MINIMUM U.N.O. MC CABLE IS ALLOWED.
- CONDUIT SHALL BE CONCEALED IN CEILING OR WALLS WHEREVER POSSIBLE.
- ALL BRANCH CIRCUITS AND FEEDERS SHALL CONTAIN A GREEN INSULATED GROUND CONDUCTOR. GROUNDING BY MEANS OF RACEWAY IS NOT PERMITTED.
- REFER TO MECHANICAL, PLUMBING, AND ARCHITECTURAL PLANS FOR EXACT LOCATION OF EQUIPMENT.
- CONTRACTOR SHALL COORDINATE EXACT HEIGHT OF DEVICES DESIGNED AS OVER COUNTER WITH CASE WORK AND FURNITURE DRAWINGS.
- VERIFY CEILING TYPES PER THE ARCHITECTURAL REFLECTED CEILING PLAN. PROVIDE APPROPRIATE TYPE FIXTURE, LAY-IN FOR GRID, FLANGE FOR DRYWALL, ETC.
- VERIFY AND COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF ALL DEVICES MOUNTED IN CASEWORK OR ABOVE COUNTERS WITH SPECIFIC EQUIPMENT FURNISHED.
- NO MORE THAN 3 PHASE CONDUCTORS SHALL BE INSTALLED IN ANY ONE CIRCUIT, UNLESS NOTED OTHERWISE. EACH BRANCH CIRCUIT SHALL CONTAIN THEIR OWN NEUTRAL CONDUCTOR. NO SHARED NEUTRALS.
- CONTRACTOR SHALL PROVIDE ALL FIRESTOPPING FOR CONDUIT OR CABLE TRAY PENETRATIONS THAT PENETRATE ACOUSTICAL RATED OR SMOKE AND FIRE RATED ASSEMBLIES. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL RATED ASSEMBLIES. ALL RATED PENETRATIONS SHALL BE FIRESTOPPED TO ORIGINAL ASSEMBLY RATING. ALL NON-RATED FLOOR PENETRATIONS SHALL BE SEALED WATER TIGHT WITH A FLEXIBLE SEALANT.
- PROVIDE ALL PULL BOXES, IN ACCESSIBLE AREA, THAT EXCEED NEC NUMBER OF BENDS OR LENGTH IN FEEDER AND BRANCH CIRCUITS. INSTALL BOXES WHERE REQUIRED PER CODE.
- ALL WIRING DEVICES SHALL BE OF HEAVY DUTY COMMERCIAL GRADE CONSTRUCTION. REFER TO ARCHITECTURAL SHEETS AND CODE SHEET FOR ALL FIRE-RATED PARTITION LOCATIONS AND RATINGS. COORDINATE COLORS WITH ARCHITECT.
- CONTRACTOR IS RESPONSIBLE FOR ALL CORE-DRILLS REQUIRED FOR INSTALLATION OF ELECTRICAL WORK.
- ROUTING OF CIRCUITRY INSTALLED IN CASEWORK, CABINETRIES, ETC. SHALL BE COORDINATED FOR PROPER CONCEALMENT AND FUNCTION OF CASEWORK, CABINETRIES, ETC.
- VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION, TRENCHING, OR DRILLING.
- ALL ROOF PENETRATIONS OR PATCHES SHALL BE MADE PER ROOFING MANUFACTURER WARRANTY REQUIREMENTS.
- ALL EXPOSED METAL CONDUITS ARE TO BE PAINTED TO MATCH THE ADJACENT SURFACE. COORDINATION OF PAINTING OF CONDUIT IS TO BE BY THE ELECTRICAL CONTRACTOR, WITH PAINTING BY OTHERS.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED JUNCTION BOXES, PULL BOXES, ETC FOR A COMPLETE INSTALLATION PER THE N.E.C. AND LOCAL CODES. ALL CONDUCTORS SHALL BE RATED FOR 90 DEGREE CELSIUS.
- COORDINATE WORK WITH OTHER TRADES. COORDINATION OR SCHEDULING SHALL BE RESPONSIBILITY OF THE INVOLVED CONTRACTORS.
- ALL LOW VOLTAGE CABLING INSTALLED IN SPACES WITHOUT A LAY-IN OR WITH A HARD CEILING SHALL BE INSTALLED IN CONDUIT AND BOXES.

ELECTRICAL LEGEND

| LIGHTING | | FIRE ALARM | |
|----------------|---|---|--|
| A1 | LIGHTING FIXTURE. REFER TO FIXTURE SCHEDULE. LETTER INDICATES TYPE. | FIRE ALARM PULL STATION, 44" AFF MOUNTING HEIGHT | FIRE ALARM HORN/STROBE, 80" AFF MOUNTING HEIGHT |
| A1 | EMERGENCY LIGHTING FIXTURE WITH EMERGENCY BATTERY BACKUP. "NL" INDICATES NIGHT LIGHT CIRCUIT. REFER TO FIXTURE SCHEDULE FOR BATTERY REQUIREMENTS. | FIRE ALARM DUCT MOUNTED SMOKE DETECTOR. S = SUPPLY, R = RETURN - COORDINATE WITH DUCTWORK. MAKE SAMPLING TUBE FULL WIDTH OF DUCT IN LENGTH. PROVIDE SMOKE DETECTOR FOR DAMPER OPERATION AND 120 VOLT POWER CONNECTION AS SHOWN ON THE POWER DRAWINGS. COORDINATE ALL CONNECTIONS WITH MECHANICAL CONTRACTOR. CONNECT TO ALARM SYSTEM. | FIRE ALARM CEILING MOUNTED SMOKE DETECTOR. |
| C1 | LIGHTING FIXTURE. LETTER INDICATES TYPE. | FIRE ALARM ANNUNCIATOR PANEL. | FIRE ALARM CONTROL PANEL. |
| C1 | EMERGENCY LIGHTING FIXTURE WITH EMERGENCY BATTERY BACKUP. | FIRE ALARM STROBE, 80" AFF MOUNTING HEIGHT. | BLUE EXTERIOR STROBE LIGHT FOR FIRE DEPARTMENT CONNECTION WP - WEATHERPROOF |
| X1 | CEILING MOUNTED EXIT SIGN. REFER TO FIXTURE SCHEDULE. SHADED AREA DENOTES FACE(S) OF UNIT. CONNECT TO LOCAL UNSWITCHED LIGHTING CIRCUIT. | SPRINKLER SYSTEM FLOW SWITCH FURNISHED AND INSTALLED BY THE FIRE PROTECTION CONTRACTOR. CONNECTED BY ELECTRICAL CONTRACTOR. | SPRINKLER SYSTEM GATE VALVE. SUPERVISORY SWITCH FURNISHED AND INSTALLED BY THE FIRE PROTECTION CONTRACTOR. CONNECTED BY ELECTRICAL CONTRACTOR. |
| X1 | WALL MOUNTED EXIT SIGN. REFER TO FIXTURE SCHEDULE. SHADED AREA DENOTES FACE(S) OF UNIT. CONNECT TO LOCAL UNSWITCHED LIGHTING CIRCUIT. | FIRE ALARM STROBE, 80" AFF MOUNTING HEIGHT. | MAGNETIC DOOR HOLD OPEN. |
| EM | EMERGENCY EGRESS LIGHT. REFER TO FIXTURE SCHEDULE. | FIRE ALARM CONTROL RELAY MODULE. | FIRE ALARM REMOTE POWER SUPPLY. |
| | CEILING MOUNTED OCCUPANCY SENSOR. | | FIRE ALARM MONITOR MODULE. |
| | SINGLE POLE WALL SWITCH, 120/277 VOLT, 20 AMP, 44" AFF. | | FIRE ALARM CONTROL RELAY MODULE. |
| | THREE WAY WALL SWITCH, 120/277V, 20 AMP, 44" AFF | | END OF THE LINE RESISTOR. |
| | FOUR WAY WALL SWITCH, 120/277V, 20 AMP, 44" AFF | | FIRE ALARM CONTROL RELAY MODULE. |
| | OCCUPANCY SENSOR WALL SWITCH, 120/277V, 20 AMP, 44" AFF | DOOR ACCESS | |
| | OCCUPANCY SENSOR WALL SWITCH WITH 0-10V DIMMING, 120/277V, 20 AMP, 44" AFF | | ELECTRIC DOOR STRIKE. |
| | SINGLE POLE WALL SWITCH WITH PILOT LIGHT, 120/277V, 20 AMP, 44" AFF | | DOOR SWITCH/CONTACT. |
| | EXTERIOR LIGHT FIXTURE. ER, EXISTING TO REMAIN, PL1 - NEW FIXTURE. REFER TO FIXTURE SCHEDULE. | | KEY OR KEYCARD ACTIVATED SWITCH IN TAMPER PROOF ENCLOSURE. WP - WEATHERPROOF. |
| POWER | | | HANDICAP DOOR ACCESS BUTTON IN FLUSH WALL BOX. |
| | DUPLX RECEPTACLE, 120 VOLT, 20 AMP, 18" AFF UNO. | INTRUDER DETECTION SYSTEM | |
| | DUPLX RECEPTACLE WITH USB PLUG, 120 VOLT, 20 AMP, 18" AFF UNO. | | CEILING MOUNTED MOTION SENSOR DEVICE. |
| | DUPLX RECEPTACLE MOUNTED AT 46" OR ABOVE BACKSPLASH, 120 VOLT, 20 AMP. | | CEILING MOUNTED MOTION SENSOR DEVICE. |
| | DOUBLE DUPLX RECEPTACLE, 120 VOLT, 20 AMP, 18" AFF UNO. | | SECURITY CAMERA |
| | 120 VOLT DOUBLE DUPLX, 20 AMP RECEPTACLE MOUNTED AT 46" AFF OR 4" ABOVE BACKSPLASH. | DATA & COMMUNICATION | |
| | DUPLX RECEPTACLE WITH GROUND FAULT PROTECTION, 120 VOLT, 20 AMP, 18" AFF UNO, WP-WEATHERPROOF BOX | | DATA /COMMUNICATION OUTLET. TWO PORTS REFER TO DETAIL FOR MOUNTING REQUIREMENTS. |
| | FLUSH FLOOR DUPLX RECEPTACLE IN FLOOR BOX | | WALL PHONE, 54" AFF. |
| | 120 VOLT SINGLE 20 AMP RECEPTACLE. | | DATA OUTLET, 18" AFF. |
| | DUPLX RECEPTACLE, CEILING MOUNTED | | DATA/COMMUNICATION, FOUR PORT DATA, 18" AFF. |
| | SPECIAL PURPOSE RECEPTACLE. REFER TO FLOOR PLANS FOR NEMA CONFIGURATION. | | DATA/COMMUNICATION, FOUR PORT DATA, 18" AFF. |
| | FRACTIONAL HP MOTOR STARTER WITH THERMAL OVERLOADS. | | WIRELESS ACCESS CONNECTION POINT WITH CEILING MOUNTED CISCO WIRELESS DEVICE. |
| | ELECTRICAL MOTOR. | | |
| | HOMERUN TO PANELBOARD. NOTION INDICATES PANEL AND CIRCUIT NUMBER. (ALL CONDUCTORS SHALL BE #10 UNLESS NOTED OTHERWISE.) | | |
| | ELECTRICAL PANELBOARD. | | |
| | JUNCTION BOX. | | |
| | CONDUIT STUB-OUT AND CAP BELOW GRADE. MARK STUB-OUT AT GRADE LEVEL. | | |
| | UNDERGROUND HIGH VOLTAGE OR SECONDARY SERVICE FEED. | | |
| | SAFETY DISCONNECT SWITCH (NON-FUSED), 4X INDICATES ENCLOSURE TYPE. | | |
| | SAFETY DISCONNECT SWITCH (FUSED). | | |
| | COMBINATON MOTOR STARTER/DISCONNECT, WITH HOA SWITCH AT UNIT (FUSIBLE), OR (CIRCUIT BREAKER FOR ELEVATOR). | | |
| | TRANSFORMER (NUMBER INDICATES WHICH TRANSFORMER). | | |
| | HAND DRYER, VERIFY MOUNTING WITH SUPPLIER | | |
| GENERAL | | | |
| | DETAIL # _____ DETAIL REFERENCE TAG, DRAWING # REFER TO DETAIL SHEETS | | |
| | KEYNOTE FOR DRAWING | | |
| | DETAIL REFERENCE TAG (SECTION) | | |
| | MECHANICAL EQUIPMENT TAG. REFER TO EQUIPMENT DATA SCHEDULE. | | |
| | INDICATES NEW WORK. | | |
| | INDICATES TO BE REMOVED. | | |
| | INDICATES EXISTING TO REMAIN. | | |

| ELECTRICAL INDEX OF DRAWINGS | |
|------------------------------|--|
| SHEET NUMBER | SHEET NAME |
| E0.1 | ELECTRICAL LEGEND AND GENERAL NOTES |
| E0.2 | ELECTRICAL EQUIPMENT AND LIGHTING SCHEDULE |
| E0.3 | ELECTRICAL SPECIFICATIONS |
| E1.1 | ELECTRICAL POWER PLAN |
| E1.2 | ELECTRICAL POWER PLAN - OVERALL |
| E2.1 | ELECTRICAL LIGHTING PLAN |
| E2.2 | SITE LIGHTING PLAN |
| E4.1 | PANELBOARD SCHEDULES AND SINGLE LINE DIAGRAM |
| E4.2 | PANELBOARD SCHEDULES |
| E5.0 | ELECTRICAL DETAILS |

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WINCHESTER,
INDIANA

Project No. 2025128
Coordinator... ATP

Date..... 12-08-2025

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ELECTRICAL
LEGEND AND
GENERAL NOTES

drawing

EO.I

EQUIPMENT ELECTRICAL DATA SCHEDULE

| PLAN SYMBOL | DESCRIPTION/LOCATION | LOAD CHARACTERISTICS | | | | | | | STARTER | | | | | DISCONNECT | | | | CTRL DEVICE | | | PANEL | CIRCUIT | FEEDER SIZE/ RACEWAY | NOTES | PLAN SYMBOL | |
|-------------|------------------------------------|----------------------|------|---------|-------|------|-------------|------|-----------|------------|------------|-------------|----------|------------|------------|------------|----------------------|-------------|------|------------|-------|----------|-------------------------|-------|-------------|------------|
| | | KW | HP | VOLTAGE | PHASE | FLA | SPEED DRIVE | TYPE | NEMA SIZE | FURNISH BY | INSTALL BY | AUXIL RELAY | LOCATION | TYPE | FURNISH BY | INSTALL BY | SWITCH/ FUSE SIZE | LOCATION | TYPE | FURNISH BY | | | | | | INSTALL BY |
| EF-1 | EXHAUST FAN - RESTROOMS | - | 1/15 | 120 | 1 | 1 | - | - | - | - | - | - | - | MC | MC | 20/NA | NEAR UNIT | - | - | - | C | 14 | (2) #12, #12G IN 3/4". | - | EF-1 | |
| RTU-1 | PACKAGED ROOFTOP AIR HANDLING UNIT | - | - | 208 | 3 | 46.4 | - | - | - | - | - | - | - | MC | EC | 70/NA | ON UNIT | - | MC | MC | C | 38,40,42 | (3) #4, #8G IN 1-1/2". | - | RTU-1 | |
| EWH-1 | ELECTRIC TANKLESS WATER HEATER | 4.1 | - | 208 | 1 | - | - | - | - | - | - | - | - | EC | EC | 30/NA | NEAR UNIT | - | - | - | C | 1,3 | (2) #10, #10G IN 3/4". | - | EWH-1 | |
| EWH-2 | ELECTRIC TANKLESS WATER HEATER | 4.1 | - | 208 | 1 | - | - | - | - | - | - | - | - | EC | EC | 30/NA | NEAR UNIT | - | - | - | C | 5,7 | (2) #10, #10G IN 3/4". | - | EWH-2 | |
| EWH-3 | ELECTRIC TANKLESS WATER HEATER | 4.1 | - | 208 | 1 | - | - | - | - | - | - | - | - | EC | EC | 30/NA | NEAR UNIT | - | - | - | C | 9,11 | (2) #10, #10G IN 3/4". | - | EWH-3 | |
| HV-1 | HVLS FAN - CLASSROOM 104 | - | 1/4 | 120 | 1 | 5.8 | - | - | - | - | - | - | - | EC | EC | 30/NA | NEAR UNIT | - | ES | EC | C | 33 | (2) #12, #12G IN 3/4". | - | HV-1 | |
| HV-2 | HVLS FAN - CLASSROOM 105 | - | 1/4 | 120 | 1 | 5.8 | - | - | - | - | - | - | - | EC | EC | 30/NA | NEAR UNIT | - | ES | EC | C | 35 | (2) #12, #12G IN 3/4". | - | HV-2 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

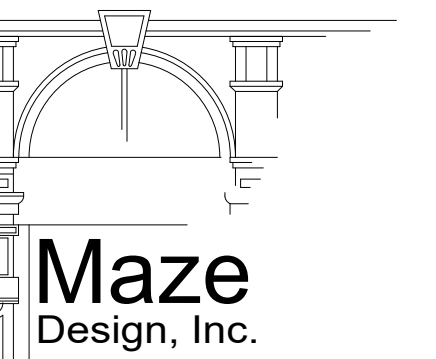
ABBREVIATIONS:
 CC - CONTROL CONTRACTOR FS - FUSED SWITCH GC - GENERAL CONTRACTOR VC - VENTILATION CONTRACTOR
 CP - CORD/PLUG FSC - FIRE SUPPRESSION CONTRACTOR HC - HEATING CONTRACTOR TS - THERMOSTAT
 EC - ELECTRICAL CONTRACTOR FSEC - FOOD SERVICE EQUIP. CONTRACTOR PC - PLUMBING CONTRACTOR NFS - NON FUSED SWITCH
 ES - EQUIPMENT SUPPLIER FVNR - FULL VOLTAGE NON-REVERSING SC - SPRINKLER CONTRACTOR SW - HORSEPOWER RATED SWITCH

NOTES:
 1 - XXX

LIGHTING FIXTURE SCHEDULE

| FIXTURE SYMBOL | FIXTURE VOLTAGE | FIXTURE INPUT WATTS | TEMPERATURE (K) | DELIVERED LUMENS | MANUFACTURER AND MODEL NUMBER | OTHER ACCEPTABLE MANUFACTURER | DIFFUSER MEDIA | CLASSIFICATION | TRIM COLOR | | | | | | MOUNTING | SIZE (IN.) | | | NOTES | |
|----------------|-----------------|---------------------|-----------------|------------------|--|-------------------------------|------------------------|----------------|------------|--------|--------|----------------|----------|----------|-----------|------------|--------|-------|-------|---|
| | | | | | | | | | WHITE | NICKEL | CHROME | BRUSHED NICKEL | STANDARD | SEE NOTE | | DIA | LENGTH | DEPTH | | |
| A1 | 120 | 17 | 4000 | 1978 | RAB #EZPAN2X2-40N/D10 | SCHOOL STANDARD | FROSTED POLYSTYRENE | N | X | | | | | | | R | 24 | 24 | 1.63 | 2 |
| F1 | 120 | 13 | 4000 | 1326 | PRESCOLITE #LBRST-6RD-M-LS-SL-CWCS9-WH | AS PRE-APPROVED | POLYCARBONATE | N | X | | | | | | | R | 6 | DIA | 4.36 | 4 |
| H1 | 120 | 73 | 4000 | 7865 | COLUMBIA #SAV-LH-40-8-SB16-CDL-1-BL | AS PRE-APPROVED | SUSPENDED BEAD ACRYLIC | N | | | | | 1 | | C | 16.5 | DIA | 23.1 | - | |
| WP1 | 120 | 30 | 4000 | 4624 | EXO #WGH2-LSCS | AS PRE-APPROVED | BOROSILICATE GLASS | N | | | | | 3 | | WM | 14.3 | 7.4 | 9.3 | 4 | |
| - | - | - | - | - | - | AS PRE-APPROVED | - | - | X | X | X | X | X | X | - | - | - | - | - | |
| - | - | - | - | - | - | AS PRE-APPROVED | - | - | X | X | X | X | X | X | - | - | - | - | - | |
| X1 | - | - | - | - | COMPASS #CCR | AS PRE-APPROVED | EMERGENCY EGRESS | EM | X | | | | | | UNIVERSAL | 19.25 | 8.125 | 1.75 | - | |
| ER | - | - | - | - | COMPASS #COBS | AS PRE-APPROVED | EMERGENCY EGRESS | EM | X | | | | | | WM-8'-0" | 4.5 | DIA | 6.7 | - | |
| CV | - | - | - | - | COMPASS #CU2 | AS PRE-APPROVED | EMERGENCY EGRESS | EM | X | | | | | | WM-8'-0" | 4 | 9 | 2.75 | - | |

NOTES:
 1. BLACK.
 2. SCHOOL STANDARD FIXTURE.
 3. DARK BRONZE.
 4. FIXTURE LUMENS AND COLOR TEMPERATURE TO BE SET BY EC DURING INSTALLATION.



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WINCHESTER,
 INDIANA

Project No. 2029128
 Coordinator... Auditor

Date..... 12-08-2029

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ELECTRICAL
 EQUIPMENT AND
 LIGHTING
 SCHEDULE

ELECTRICAL SPECIFICATIONS

GENERAL PROVISIONS

A. REFERENCE

1. THE GENERAL CONDITIONS AND OTHER CONTRACT DRAWINGS AS SET FORTH IN THE FOREGOING PAGES ARE HEREBY INCORPORATED INTO AND BECOME A PART OF THE SPECIFICATIONS FOR WORK UNDER THIS PROJECT, INsofar AS THEY APPLY HERETO.
2. ALL SPECIFICATIONS UNDER THIS DIVISION TITLE ARE DIRECTED TO AND ARE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. UNLESS OTHER TRADES OR PERSONS ARE SPECIFICALLY MENTIONED, "ELECTRICAL CONTRACTOR" IS INFERRED AND INTENDED.

B. CONTRACT DRAWINGS

1. THE DRAWINGS ACCOMPANYING THESE SPECIFICATIONS ARE COMPLEMENTARY EACH TO THE OTHER AND WHAT IS CALLED FOR BY ONE SHALL BE AS IF CALLED FOR BY BOTH.
2. CONSULT ALL CONTRACT DRAWINGS WHICH MAY AFFECT THE LOCATION OF EQUIPMENT, CONDUIT AND WIRING AND MAKE MINOR ADJUSTMENTS IN LOCATION TO SECURE COORDINATION.
3. WIRING LAYOUT IS SCHEMATIC AND EXACT LOCATIONS SHALL BE DETERMINED BY FIELD CONDITIONS.
4. OTHER THAN MINOR ADJUSTMENTS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR APPROVAL BEFORE PROCEEDING WITH THE WORK.

C. JOB-SITE COPY OF DOCUMENTS

1. MAINTAIN AT THE SITE, ONE COPY OF ALL DRAWINGS, SPECIFICATIONS, ADDENDA APPROVED SHOP DRAWINGS, CHANGE ORDERS AND OTHER MODIFICATIONS, IN GOOD ORDER AND MARKED TO RECORD ALL CHANGES MADE DURING CONSTRUCTION. THESE SHALL BE AVAILABLE TO THE OWNER'S REPRESENTATIVE. THE DRAWINGS MARKED TO RECORD ALL CHANGES MADE DURING CONSTRUCTION SHALL BE DELIVERED TO THE OWNER'S REPRESENTATIVE FOR THE OWNER UPON COMPLETION OF THE WORK. AN ADDITIONAL SET OF DRAWINGS WILL BE FURNISHED BY THE OWNER'S REPRESENTATIVE FOR THIS PURPOSE UPON REQUEST.

D. MANUFACTURER'S DRAWINGS

1. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT FOR REVIEW, (4) COPIES OF MANUFACTURER'S DRAWINGS AND WIRING DIAGRAMS (OR ELECTRONIC SUBMITTALS IN PDF FORMAT), THE ENGINEER WILL REVIEW CONTRACTOR'S SHOP DRAWINGS AND RELATED SUBMITTALS (AS INDICATED BELOW) WITH RESPECT TO THE ABILITY OF THE DETAILED WORK, WHEN COMPLETE, TO BE A PROPERLY FUNCTIONING INTEGRAL ELEMENT OF THE OVERALL SYSTEM DESIGNED BY THE ENGINEER. BEFORE SUBMITTING A SHOP DRAWING OR ANY RELATED MATERIAL TO THE ENGINEER, CONTRACTOR SHALL REVIEW EACH SUCH SUBMISSION FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATIONS OF CONSTRUCTION, AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF CONTRACTOR. APPROVE EACH SUCH SUBMISSION BEFORE SUBMITTING IT, AND SO STAMP EACH SUCH SUBMISSION BEFORE SUBMITTING IT. THE ENGINEER SHALL ASSUME THAT NO SHOP DRAWING OR RELATED SUBMITTAL COMPRISES A VARIATION UNLESS CONTRACTOR ADVISES ENGINEER OTHERWISE VIA A WRITTEN INSTRUMENT WHICH IS ACKNOWLEDGED BY ENGINEER IN WRITING. THE ITEMS, TYPES OF SUBMITTALS AND RELATED MATERIAL (IF ANY) CALLED FOR ARE INDICATED BELOW:

ITEMS SHOP DRAWINGS TYPE SUBMITTALS REQUIRED

LIGHTING FIXTURES
WIRING DEVICES
LIGHTING CONTROLS

E. GUARANTEES

1. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEFECTS, REPAIRS AND REPLACEMENTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF SUBSTANTIAL COMPLETION AS DETERMINED BY THE OWNER'S REPRESENTATIVE. PRODUCT GUARANTEES GREATER THAN ONE (1) YEAR SHALL BE PASSED ALONG TO THE OWNER FOR FULL BENEFIT OF THE MANUFACTURER'S WARRANTY.

WORK INCLUDED

A. INSTALLATION, MATERIALS, AND WORKMANSHIP

6. FURNISH AND INSTALL ALL NECESSARY ANCHORS, SUPPORTS, STRAPS, BOXES, FITTINGS AND OTHER SIMILAR APPURTENANCES NOT INDICATED ON THE DRAWINGS BUT WHICH ARE REQUIRED FOR A COMPLETE AND PROPERLY INSTALLED SYSTEM CONSISTENT WITH THE ARCHITECTURAL TREATMENT OF THE BUILDING.
7. THE ELECTRICAL CONTRACTOR, INsofar AS THE WORK IS CONCERNED, SHALL AT ALL TIMES KEEP THE PREMISES IN A NEAT AND ORDERLY CONDITION, AND AT THE COMPLETION OF THE WORK, SHALL PROPERLY CLEAN UP AND CART AWAY DEBRIS AND EXCESS MATERIALS. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF DUMPSTER & REFUSE DISPOSAL AS REQUIRED FOR ELECTRICAL WORK.
8. ALL MATERIALS SHALL BE NEW AND UNDETERIORATED AND OF A QUALITY NOT LESS THAN THE MINIMUM SPECIFIED.

B. COORDINATION OF PLANS AND SPECIFICATIONS

1. CONTACT THE OWNER'S REPRESENTATIVE IMMEDIATELY IF THERE IS ANY QUESTIONS REGARDING THE MEANING OR INTENT OF EITHER PLANS OR SPECIFICATIONS, OR UPON NOTICING ANY DISCREPANCIES OR OMISSIONS IN EITHER PLANS OR SPECIFICATIONS.

C. CUTTING AND PATCHING

1. PATCHING SHALL MATCH EXISTING SURFACES IN KIND AND FINISH AND SHALL BE DONE BY THE GENERAL CONTRACTOR AT THE ELECTRICAL CONTRACTOR'S EXPENSE.
2. REPAIR OF DAMAGES, BY THE ELECTRICAL CONTRACTOR, TO NEWLY PATCHED AND REFINISHED AREAS SHALL BE DONE BY THE GENERAL CONTRACTOR AT THE ELECTRICAL CONTRACTOR'S EXPENSE, TO MATCH EXISTING CONDITION.
3. WHERE REQUIRED TO MAINTAIN FIRE RATING, OPENINGS SHALL BE SEALED UTILIZING 3M BRAND FIRE BARRIER PENETRATION SEALING SYSTEMS; FIRE BARRIER OR FIRE STOP SYSTEMS FROM CROUSE-HINDS, THOMAS & BETTS OR DOW CORNING MAY BE USED AT CONTRACTOR'S OPTION. THIS INCLUDES HOLES LEFT DUE TO REMOVAL OF EXISTING CONDUITS, BUS DUCT, ETC. OPENINGS SHALL BE TEMPORARILY FIRE STOPPED UNTIL PERMANENT FIRE STOPPING IS DONE.

D. CLEANING AND PAINTING

1. ALL ELECTRICAL EQUIPMENT SHALL BE KEPT DRY AND CLEAN DURING THE CONSTRUCTION PERIOD. INTERIOR OF ALL ENCLOSURES SHALL BE CLEANED OF DIRT AND DEBRIS BEFORE INSTALLING TRIM OR COVERS.
2. ALL FINISHED SURFACES OF EQUIPMENT FURNISHED UNDER THIS CONTRACT SHALL BE THOROUGHLY CLEANED OF DIRT AND ALL SCRATCHED OR DAMAGED SURFACES SHALL BE TOUCHED UP WITH MATCHING MATERIALS BEFORE FINAL ACCEPTANCE OF THE WORK.
3. WHEN ALL WORK IS COMPLETED AND ALL WORK HAS BEEN SATISFACTORILY TESTED AND ACCEPTED BY THE OWNER'S REPRESENTATIVE, ALL CONDUIT AND OTHER EXPOSED SURFACES SHALL BE THOROUGHLY CLEANED.

CODES AND FEES

A. CODES:

1. ALL WORK PERFORMED UNDER THIS SPECIFICATION SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AS PREPARED AND PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION AND ANY APPLICABLE STATE OR LOCAL CODES.

B. FEES:

1. OBTAIN AND PAY FOR ANY AND ALL PERMITS REQUIRED BY ALL LAWS AND REGULATIONS AND PUBLIC AUTHORITY HAVING SUCH JURISDICTION.

TESTS AND SPECIFICATIONS

- A. OBTAIN ALL INSPECTIONS REQUIRED BY ALL LAWS, ORDINANCES, RULES, REGULATIONS OR PUBLIC AUTHORITY HAVING JURISDICTION AND OBTAIN CERTIFICATES OF SUCH INSPECTIONS AND SUBMIT SAME TO THE OWNER'S REPRESENTATIVE. PAY ALL FEES, CHARGES AND OTHER EXPENSES IN CONNECTION THEREIN. OBTAIN OCCUPANCY PERMIT AS REQUIRED BY OWNER. FINAL PAYMENT SHALL NOT BE MADE UNTIL OCCUPANCY PERMIT IS OBTAINED.
- B. WORK SHALL BE UNACCEPTABLE WHEN FOUND TO BE DEFECTIVE OR CONTRARY TO THE PLANS SPECIFICATIONS, CODES SPECIFIED OR ACCEPTED STANDARDS OF GOOD WORKMANSHIP.
- C. THE CONTRACTOR SHALL PROMPTLY CORRECT ALL WORK FOUND UNACCEPTABLE BY THE OWNER'S REPRESENTATIVE WHETHER OBSERVED BEFORE OR AFTER SUBSTANTIAL COMPLETION AND WHETHER OR NOT FABRICATED, INSTALLED OR COMPLETED. THE CONTRACTOR SHALL BEAR ALL COSTS OF CORRECTING SUCH UNACCEPTABLE WORK, INCLUDING COMPENSATION FOR THE OWNERS REPRESENTATIVE ADDITIONAL SERVICES MADE NECESSARY THEREBY.
- D. THE ELECTRICAL CONTRACTOR SHALL TEST AND OBTAIN ACCEPTANCE FOR THE FOLLOWING SYSTEMS:
 1. EMERGENCY LIGHTING.
 2. RECEPTACLE AND EQUIPMENT POWER.
 3. LIGHTING.
 4. LIGHTING CONTROLS

CONDUIT

- A. FURNISH AND INSTALL ALL CONDUITS, BOXES, FITTINGS, ETC., FOR A COMPLETE RACEWAY SYSTEM.
- B. ALL WIRING SHALL BE RUN IN EMT CONDUIT OR MC CABLE UNLESS OTHERWISE NOTED.
- C. ALL CONDUIT SIZES STATED HEREIN OR MARKED ON THE DRAWINGS ARE MINIMUM SIZE AND SHALL BE NO LESS THAN 1/2" UNLESS OTHERWISE NOTED.
- D. ALL CONDUIT SHALL BE SUBSTANTIALLY SUPPORTED BY PIPE STRAPS OR SUITABLE CLAMPS OR HANGERS ATTACHED TO THE ELEMENTS OF THE BUILDING STRUCTURE TO PROVIDE RIGID INSTALLATION; IN NO CASE SHALL CONDUIT BE ATTACHED OR SUPPORTED FROM ADJOINING PIPE OR INSTALLED IN SUCH A MANNER AS TO PREVENT THE READY REMOVAL OF OTHER PIPE FOR REPAIRS. "MINERALAC" TYPE SUPPORTS AND "UNISTRUT" TYPE ONE BOLT SUPPORTS WITH SQUARE ENDS SHALL NOT BE USED AT ANY LOCATION.

WIRE AND CABLE

- A. ALL CONDUCTORS SHALL BE STRANDED AND OF THE AWG SIZE AND TYPE SHOWN ON THE DRAWINGS. WHERE NO SIZE OR TYPE IS SHOWN, CONDUCTORS SHALL NOT BE LESS THAN #12 TYPE XHHW, THHN, OR THWN. ALL CONDUCTORS SHALL BE COPPER AND HAVE 600 VOLT INSULATION; BE UL LABELED AND OF AMERICAN MANUFACTURER.
- B. ALL CONNECTIONS ARE TO BE MADE USING PRESSURE TYPE TERMINALS.
- C. THE FOLLOWING COLOR CODE SHALL BE USED:

208 VOLT

| | |
|------------------|-------|
| PHASE A | BLACK |
| PHASE B | RED |
| PHASE C | BLUE |
| NEUTRAL | WHITE |
| EQUIPMENT GROUND | GREEN |

- D. CONDUCTORS NO. 10 AWG OR SMALLER SHALL HAVE INSULATION COLORED AS NOTED ABOVE.
- E. CONDUCTORS NO. 8 AWG OR LARGER SHALL HAVE INSULATION COLORED AS NOTED ABOVE OR COLORED TAPE, MINIMUM SIZE 1/2", WRAPPED TWICE AROUND AT THE FOLLOWING POINTS:
 1. AT EACH TERMINAL.
 2. AT EACH CONDUIT ENTRANCE.
 3. AT INTERVALS NOT MORE THAN 12 INCHES APART.
 4. IN ALL BOXES, PANEL TUBS, SWITCHBOARDS, ETC.

- F. ALL BRANCH CIRCUITS SHALL BE MARKED IN THE PANELBOARD GUTTERS. MARKERS SHALL INDICATE CORRESPONDING BRANCH-CIRCUIT NUMBERS.

- G. EACH BRANCH CIRCUIT REQUIRING A NEUTRAL SHALL BE FURNISHED WITH A SEPARATE INDIVIDUAL NEUTRAL CONDUCTOR.

BOXES AND PLATES

- A. FURNISH AND INSTALL ALL OUTLET, JUNCTION, AND PULLBOXES AS INDICATED ON THE DRAWINGS AND AS NECESSARY TO INSTALL THE REQUIRED CONDUIT AND WIRING IN A NEAT AND WORKMANLIKE MANNER.
- B. PULLBOXES AND JUNCTION BOXES SHALL BE GALVANIZED AND OF THE CORRECT SIZE AND SIZE AND GAUGE, IN ACCORDANCE WITH CODE REQUIREMENTS AND SHALL BE UL LABELED.
- C. FLUSH OUTLET, JUNCTION AND PULLBOXES SHALL BE PRESSED STEEL GALVANIZED OR SHERARDIZED AND SHALL BE A MINIMUM OF 4" SQUARE OR OCTAGONAL SIMILAR TO APPLETON #40.
- D. SWITCH PLATES ON FLUSH AND CAST BOXES SHALL BE SIERRA NOS. P-1, P-2, P-3 ETC., AS REQUIRED, AND SHALL BE MADE OF IVORY PLASTIC.
- E. DUPLEX RECEPTACLE PLATES ON FLUSH AND CAST BOXES SHALL BE SIERRA NO. P-8 IVORY PLASTIC.
- F. ALL BOXES SHALL BE RIGIDLY SUPPORTED FROM BUILDING STRUCTURE INDEPENDENT OF THE CONDUIT SYSTEM. BOXES CAST INTO MASONRY OR CONCRETE ARE CONSIDERED TO BE RIGIDLY SUPPORTED.

WIRING DEVICES

- A. WIRING DEVICES SHALL BE FURNISHED IN STRICT ACCORDANCE WITH THE CATALOG NUMBERS AND MANUFACTURERS LISTED IN THE SCHEDULE WHICH FOLLOWS. OTHER SPECIAL PURPOSE DEVICES SHALL BE AS SPECIFIED ON THE DRAWINGS.
- B. COORDINATE DEVICE COLOR WITH ARCHITECT.

IDENTIFICATION

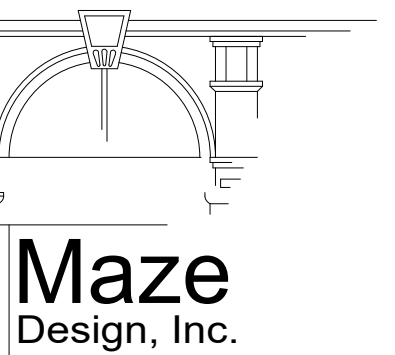
- H. EACH PIECE OF ELECTRICAL EQUIPMENT AND INDIVIDUAL SWITCHES, ALL DISCONNECTS, STARTERS ALL EXHAUST FAN MANUAL STARTING SWITCHES, ALL POWER AND LIGHTING PANELS, ALL CABINETS AND PULL BOXES, ETC., SHALL BE IDENTIFIED ON THE FRONT COVER OR TRIM WITH ITS NAME AND/OR DESIGNATION NUMBER OR LETTER AS SHOWN ON THE DRAWINGS AND WITH THE VOLTAGE AVAILABLE WITHIN THE PANEL.
- I. IDENTIFICATION SHALL BE IN THE FORM OF LAMINATED PLASTIC NAMEPLATES, BLACK FACE, WITH THE LETTERS ENGRAVED INTO THE WHITE BACKGROUND, MINIMUM 1/4" HIGH. PLATES SHALL BE DRILLED ON EACH END FOR SHEETMETAL SCREW ATTACHMENT, NO "DYMO" OR SIMILAR TYPE LABELS WILL BE ALLOWED.
- J. THE FOLLOWING IS AN EXAMPLE OF THE NAMEPLATE LAYOUT AND WORDING:
AC-1 DISCONNECT
208V - 1- CKT B-1,2
- K. PLASTIC NAMEPLATES SHALL BE ATTACHED TO FACE OF ELECTRICAL DEVICE BY SHEETMETAL SCREWS. LOCATE PLATE SO WORDING READS HORIZONTALLY AND PLATE DOES NOT OBSTRUCT OTHER IDENTIFICATION PLATES, LATCHES OR OPERATORS.
- L. WHERE CIRCUIT BREAKERS OR FUSES ARE APPLIED IN COMPLIANCE WITH THE SERIES COMBINATION RATINGS MARKED ON THE EQUIPMENT BY THE MANUFACTURER, THE EQUIPMENT ENCLOSURE(S) SHALL BE LEGIBLY MARKED IN THE FIELD TO INDICATE THE EQUIPMENT HAS BEEN APPLIED WITH A SERIES COMBINATION RATING. THE MARKING SHALL BE READILY VISIBLE AND STATE "CAUTION - SERIES RATED SYSTEM."

GROUNDING

- A. ALL FEEDERS AND BRANCH CIRCUITS OVER 100 VOLTS SHALL INCLUDE A GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH NEC TABLE 250.122, EXCEPT NOT BE SMALLER THAN #12 FOR POWER AND LIGHTING CIRCUITS AND #14 FOR CONTROL CIRCUITS. ALL GROUND CONDUCTORS SHALL BE GREEN, OR AS SPECIFIED UNDER SECTION "WIRE AND CABLE."
- B. ALL GROUND CLAMPS SHALL BE PENN-UNION "GPL" TYPE OR SIMILAR BY O.Z. OR BURNDY.
- C. CONDUIT FOR SOLITARY GROUND CONDUCTORS SHALL BE RIGID SCHEDULE 40 PVC NON-METALLIC ELECTRICAL CONDUIT WITH UL LABEL. SOLITARY GROUND CONDUCTORS SHALL NOT BE PLACED THROUGH METALLIC SLEEVES OR CONDUITS AND SHALL NOT BE COMPLETELY ENCIRCLED BY METALLIC HANGERS OR SUPPORTS.
- D. THE GROUND CONDUCTOR SHALL BE CONNECTED TO THE NEUTRAL IN ONLY TWO LOCATIONS - ON THE SUPPLY SIDE OF THE SERVICE DISCONNECT MEANS PER NEC 250.24 AND ON SEPARATELY DERIVED SYSTEMS PER NEC 250.30.
- E. AT EACH RECEPTACLE BOX, THE GROUND CONDUCTOR SHALL ENTER AND CONNECT, WITH NORMAL WIRING CONNECTOR, TO: 1) THE GROUND PIGTAIL TO RECEPTACLE; 2) THE GROUND PIGTAIL TO BOX GROUND SCREW; AND 3) THE OUTGOING GROUND CONDUCTOR TO NEXT DEVICE, IF NOT AT END OF RUN, METAL TO METAL CONTACT BETWEEN THE DEVICE YOKE AND THE OUTLET BOX IS NOT ACCEPTABLE AS A BOND FOR EITHER SURFACE MOUNTED BOXES OR FLUSH TYPE BOXES.
- F. CONDUIT SYSTEM SHALL BE ELECTRICALLY CONTINUOUS. ALL LOCK NUTS SHALL CUT THROUGH ENAMELED OR PAINTED SURFACES ON ENCLOSURES. WHERE ENCLOSURES AND NON-CURRENT CARRYING METALS ARE ISOLATED FROM THE CONDUIT SYSTEM, USE BONDING JUMPERS WITH APPROVED CLAMPS. WHERE REDUCING WASHERS ARE USED AND WHERE CONCENTRIC OR ECCENTRIC KNOCKOUTS ARE NOT COMPLETELY REMOVED BONDING BUSHINGS SHALL BE REQUIRED.

LIGHTING FIXTURES

- A. FLUSH FIXTURES MAY BE FURNISHED WITH PRE-WIRED FEATURE PROVIDED THEY ARE UL APPROVED FOR 75.C WIRING AND THE JUNCTION BOX CAPACITY IS SUFFICIENT FOR THE CIRCUIT WIRING REQUIREMENTS.
- B. CLEARANCES FOR RECESSED PORTIONS OF FIXTURES FROM COMBUSTIBLE MATERIAL AND THERMAL INSULATION, SHALL BE IN ACCORDANCE WITH NEC ARTICLE 410.66.
- C. ANY FIXTURES SCRATCHED, BENT, CRACKED OR IN ANY WAY DAMAGED BEFORE ACCEPTANCE BY OWNER SHALL BE REPLACED AT THIS CONTRACTOR'S EXPENSE.
- D. ALL FIXTURES SHALL BE IN WORKING ORDER AT THE TIME OF FINAL ACCEPTANCE OF THE WORK BY THE OWNER.
- E. ALL LIGHTING FIXTURES ARE TO BE GROUNDED ON THE INTERIOR OF THE FIXTURE HOUSING, ON CLEAN BARE METAL (FREE OF PAINT), BY USE OF A PIGTAIL AND FASTENED BY A SCREW USED FOR NO OTHER PURPOSE.



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Project No. 2029128

Coordinator. Auditor

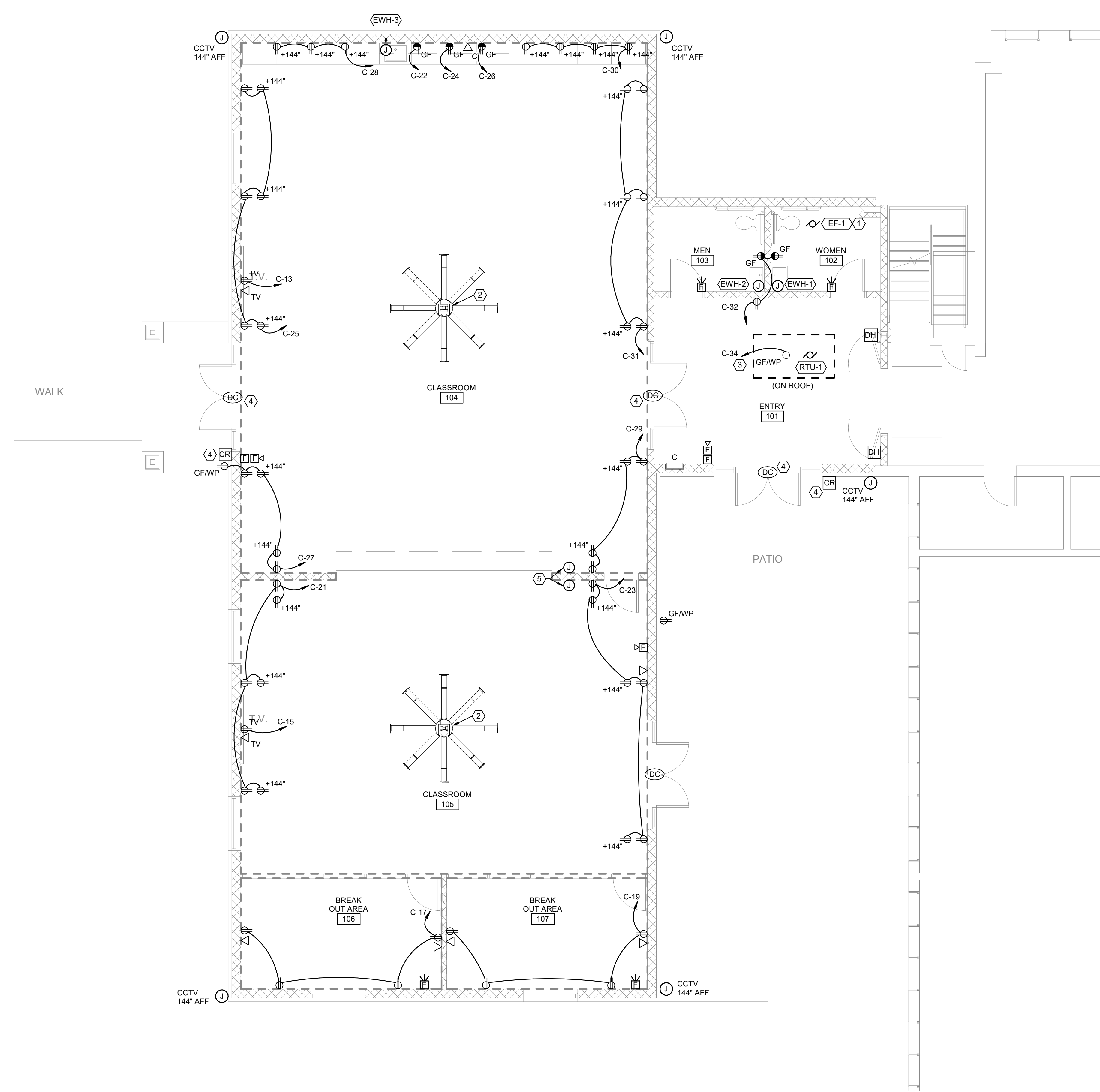
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Revision: No. Date

ELECTRICAL
SPECIFICATIONS

drawing

EO.3



- DRAWING NOTES**
1. EXHAUST FAN IS TO BE POWERED THROUGH LIGHTING CIRCUIT AND CONTROLLED BY SWITCH IN SPACE.
 2. COORDINATE EXACT LOCATION OF JUNCTION BOX FOR CEILING FAN.
 3. PROVIDE NEW 120V-20A CIRCUIT TO RECEPTACLE PROVIDED WITH RTU.
 4. PROVIDE BOX AND CONDUIT TO ABOVE ACCESSIBLE CEILING OR TO ROOF DECK FOR FUTURE ACCESS CONTROLS BY OWNER. PROVIDE WEATHERPROOF COVER FOR EXTERIOR BOXES.
 5. PROVIDE SINGLE-GANG BOX AND CONDUIT TO ROOF DECK FOR FUTURE EQUIPMENT BY OWNER.

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Project No. 2029128
 Coordinator.... Aulder
 Date..... 12-08-2029
 Revision: No. Date

ELECTRICAL
 POWER PLAN

① POWER PLAN - NEW WORK
 3/16" = 1'-0"

DRAWING NOTES

1. LOCATION OF EXISTING PANELBOARD 'C' TO BE RELOCATED.
2. RUN NEW FEEDERS ABOVE EXISTING CEILING NEAR WALLS, AS POSSIBLE. COORDINATE WITH EXISTING UTILITIES. REFER TO SINGLE-LINE DIAGRAM FOR NEW FEEDER REQUIREMENTS.
3. RELOCATE PANELBOARD 'C' TO LOCATION INDICATED. PROVIDE NEW COVER FOR RECESSED MOUNTING.
4. UTILIZE EXISTING CIRCUIT BREAKER IN DISTRIBUTION PANEL SERVING PANELBOARD 'C'.

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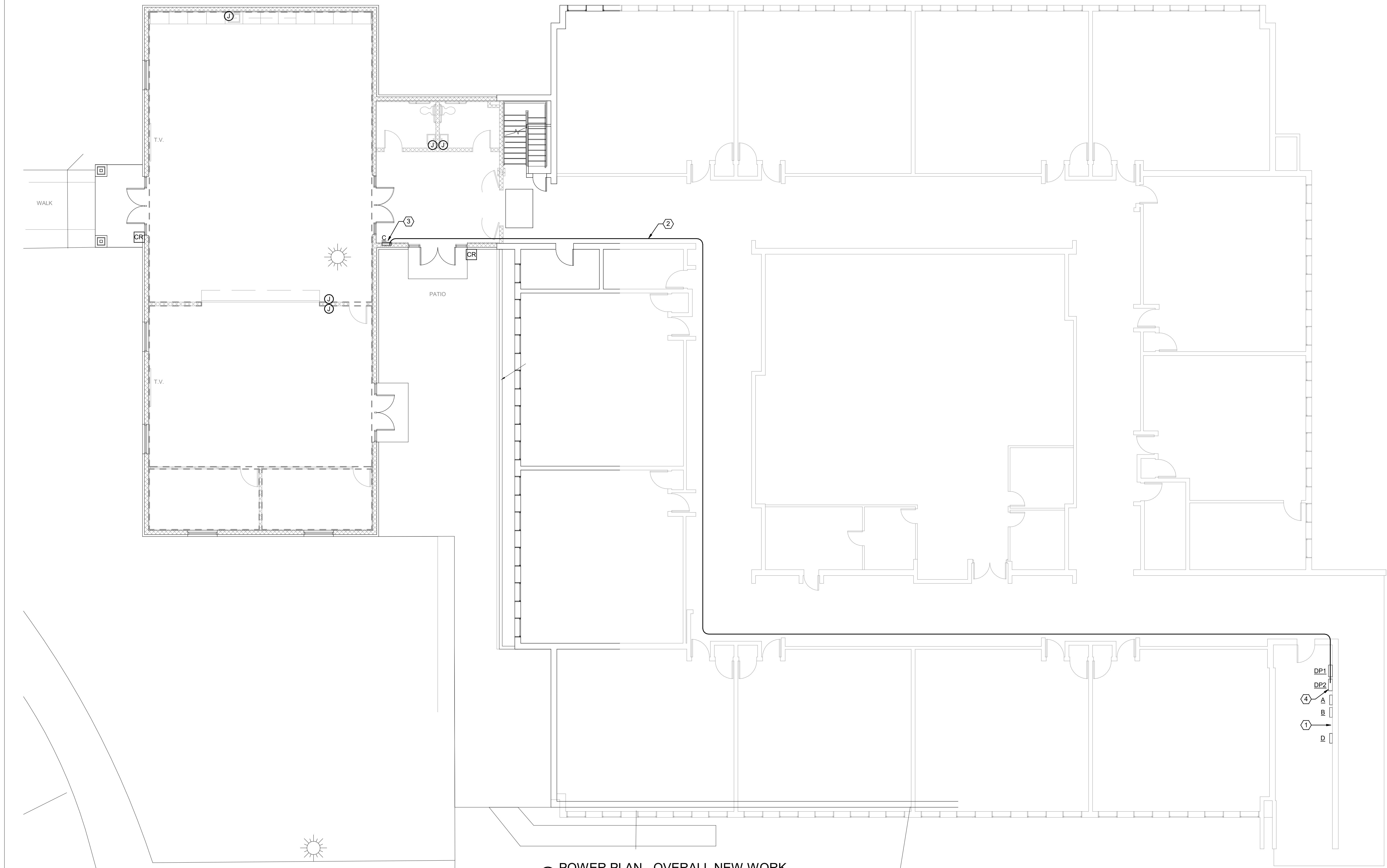
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 Coordinator.... Auditor

Date..... 12-08-2025

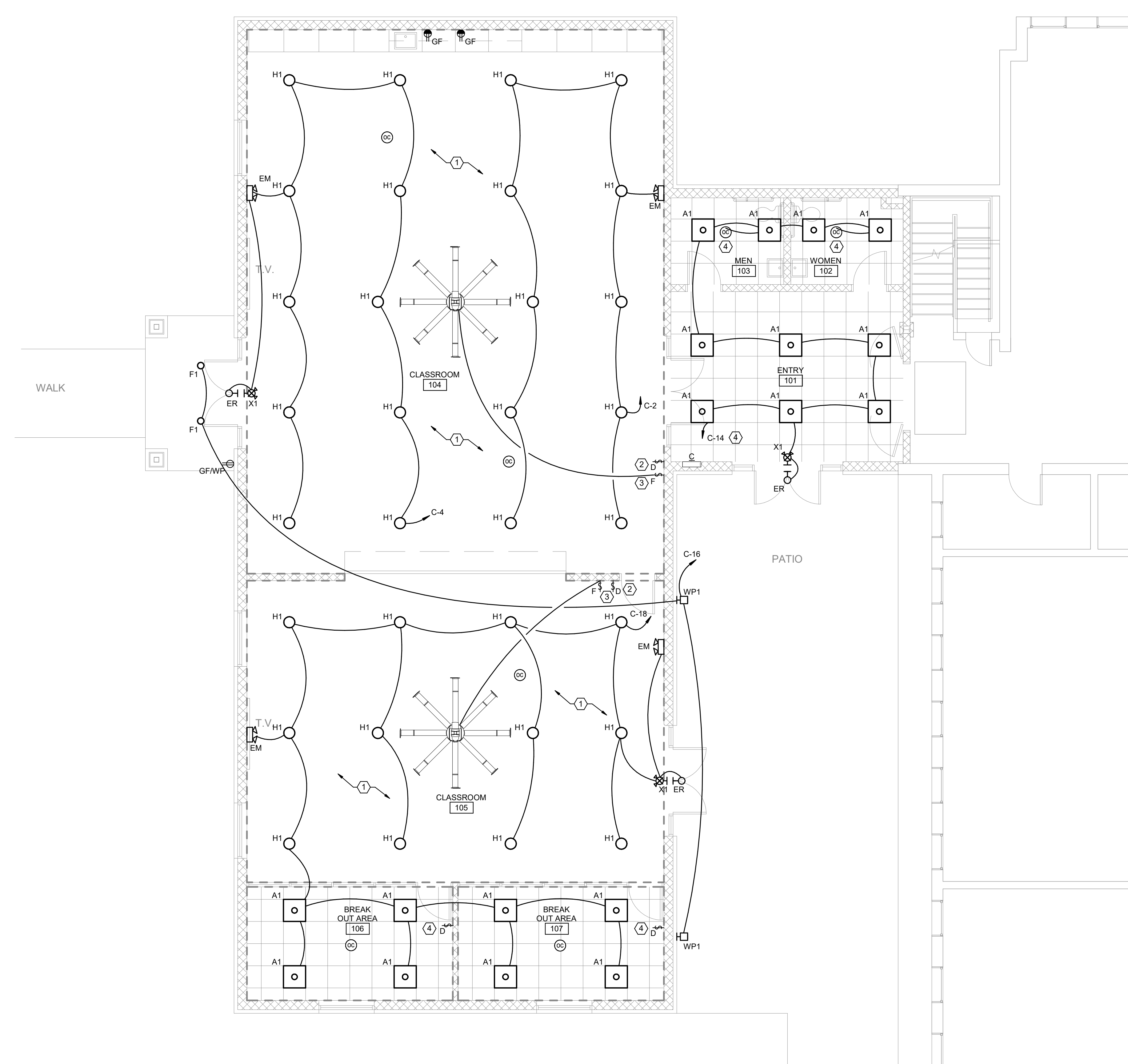
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ELECTRICAL
 POWER PLAN -
 OVERALL

drawing
 E1.2

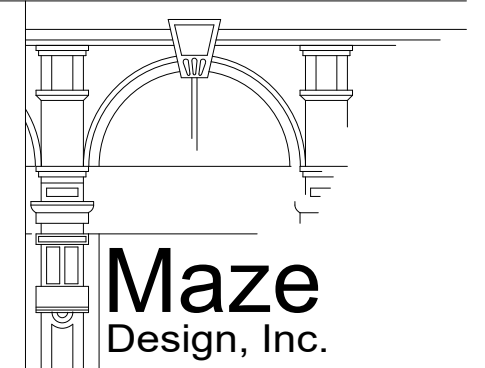


1 POWER PLAN - OVERALL NEW WORK
 1/8" = 1'-0"

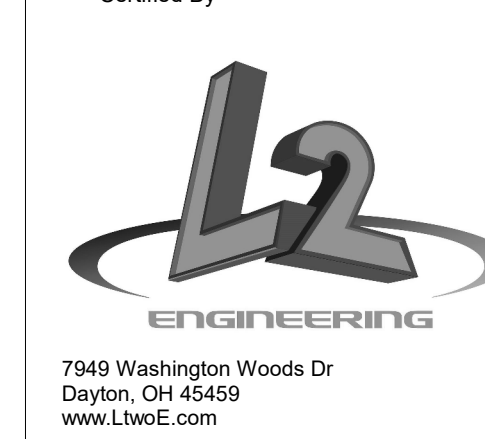
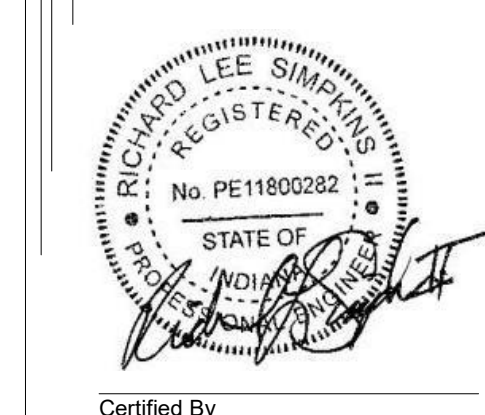


① LIGHTING PLAN - NEW WORK
3/16" = 1'-0"

- DRAWING NOTES**
1. MOUNT FIXTURES APPROXIMATELY 12'-6" AFF TO BOTTOM OF FIXTURE. COORDINATE WITH STRUCTURAL ELEMENTS.
 2. REFER TO LIGHTING CONTROL DETAILS, SHEET E5.0, FOR REQUIREMENTS.
 3. PROVIDE CONNECTION FROM HVLS FAN TO FAN MANUFACTURER PROVIDED CONTROLS.



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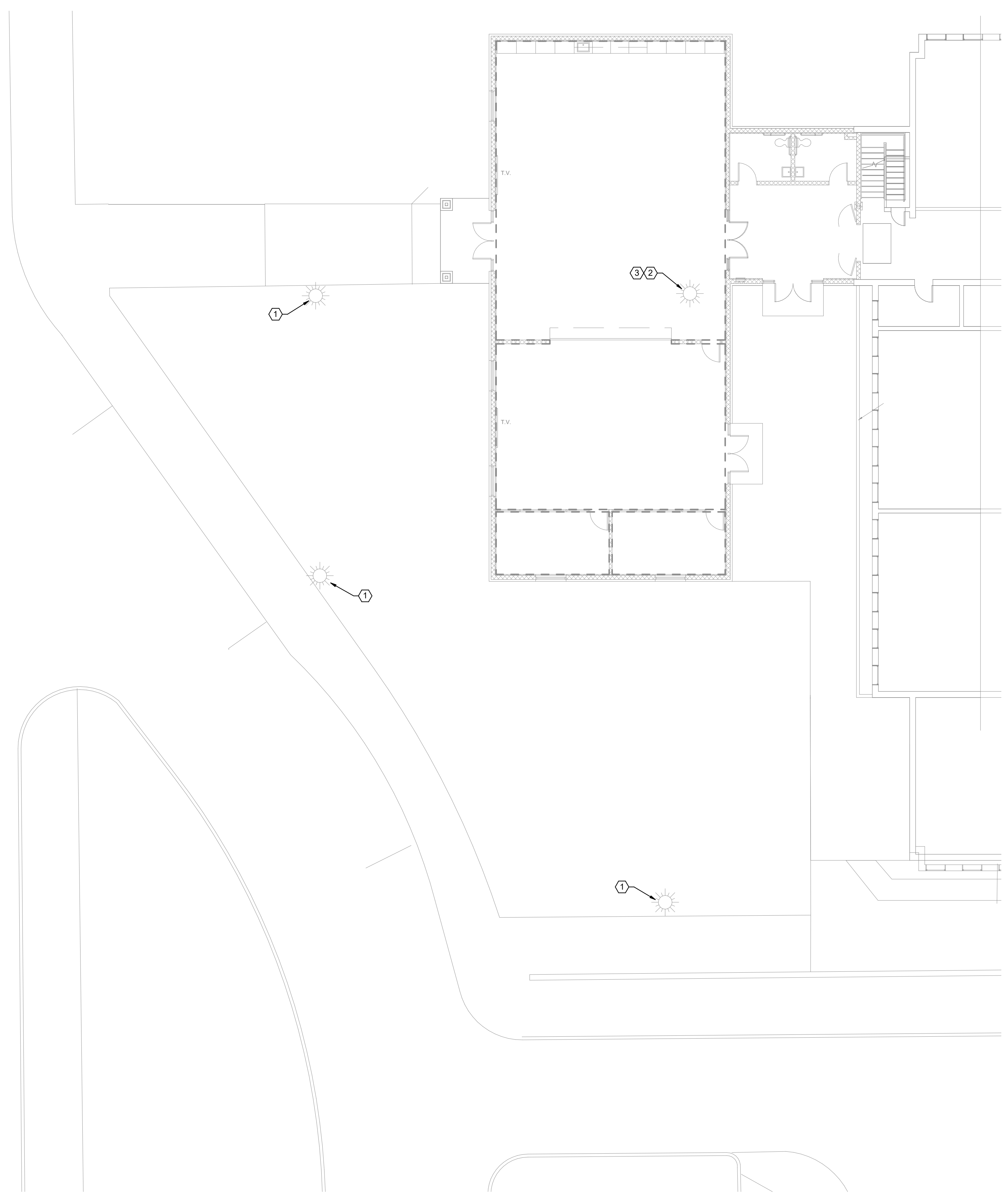
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ELECTRICAL
LIGHTING PLAN

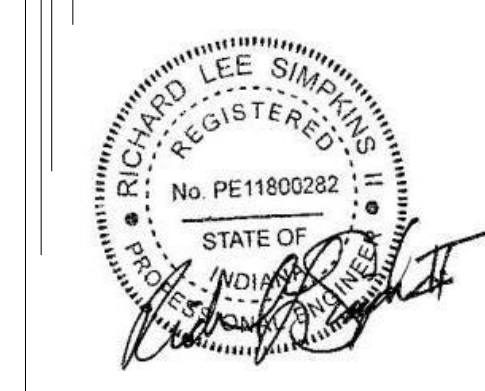


- DRAWING NOTES**
- EXISTING LIGHTING POLE AND FIXTURE TO REMAIN.
 - EXISTING LIGHTING POLE AND FIXTURE TO BE REMOVED AND TURNED OVER TO OWNER.
 - VERIFY ROUTING OF EXISTING SITE LIGHTING CIRCUIT TO ENSURE REMAINING FIXTURES OPERATE AS BEFORE.

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SITE LIGHTING
 PLAN

1 SITE LIGHTING PLAN
 1" = 10'-0"

Branch Panel: C

Location: Supply From: DP2
Mounting: Surface
Enclosure: Type 1

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

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 225 A
MCB Rating: 0 A

Notes:

| CKT | Circuit Description | Trip | Poles | A | B | C | Poles | Trip | Circuit Description | CKT | |
|--------------------|----------------------|------|-------|----------|----------|----------|-------|------|---------------------|-----|--|
| 1 | EWB-1 | 30 A | 2 | 2050 | 910 | | | 1 | 20 A | 2 | |
| 3 | -- | -- | -- | | | | | 1 | 20 A | 4 | |
| 5 | EWB-2 | 30 A | 2 | | | 2050 | 0 | 2 | 30 A | 6 | |
| 7 | -- | -- | -- | 2050 | 0 | | | -- | -- | 8 | |
| 9 | EWB-3 | 30 A | 2 | | | 2050 | 0 | 2 | 30 A | 10 | |
| 11 | -- | -- | -- | | | | | -- | -- | 12 | |
| 13 | RCPT - TELEVISION | 20 A | 1 | 180 | 400 | | | 1 | 20 A | 14 | |
| 15 | RCPT - TELEVISION | 20 A | 1 | | | 180 | 0 | 1 | 20 A | 16 | |
| 17 | RCPT - BREAKOUT 106 | 20 A | 1 | | | | | 1 | 20 A | 18 | |
| 19 | RCPT - BREAKOUT 107 | 20 A | 1 | 720 | 0 | | | 1 | 20 A | 20 | |
| 21 | RCPT - CLASSROOM 105 | 20 A | 1 | | | 1080 | 180 | 1 | 20 A | 22 | |
| 23 | RCPT - CLASSROOM 105 | 20 A | 1 | | | | | 1 | 20 A | 24 | |
| 25 | RCPT - CLASSROOM 104 | 20 A | 1 | 1080 | 180 | | | 1 | 20 A | 26 | |
| 27 | RCPT - CLASSROOM 104 | 20 A | 1 | | | 900 | 540 | 1 | 20 A | 28 | |
| 29 | RCPT - CLASSROOM 104 | 20 A | 1 | | | | | 1 | 20 A | 30 | |
| 31 | RCPT - CLASSROOM 104 | 20 A | 1 | 1080 | 540 | | | 1 | 20 A | 32 | |
| 33 | FAN - CLASSROOM 104 | 20 A | 1 | | | 528 | 180 | 1 | 20 A | 34 | |
| 35 | FAN - CLASSROOM 105 | 20 A | 1 | | | | | 1 | 20 A | 36 | |
| 37 | SPARE | 20 A | 1 | 0 | 5572 | | | 3 | 70 A | 38 | |
| 39 | SPARE | 20 A | 1 | | | 0 | 5572 | -- | -- | 40 | |
| 41 | SPARE | 20 A | 1 | | | | | -- | -- | 42 | |
| Total Load: | | | | 14762 VA | 13990 VA | 14996 VA | | | | | |
| Total Amps: | | | | 124 A | 117 A | 126 A | | | | | |

Legend:

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals |
|---------------------|----------------|---------------|------------------|------------------------------------|
| HVAC | 29016 VA | 100.00% | 29016 VA | |
| Motor | 0 VA | 0.00% | 0 VA | Total Conn. Load: 43748 VA |
| Other | 1056 VA | 100.00% | 1056 VA | Total Est. Demand: 43438 VA |
| Receptacle | 10620 VA | 97.08% | 10310 VA | Total Conn.: 121 A |
| Lighting | 3056 VA | 100.00% | 3056 VA | Total Est. Demand: 121 A |

Notes:

Branch Panel: DP2

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

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

A.I.C. Rating:
Mains Type: 800 A
MCB Rating: 800 A

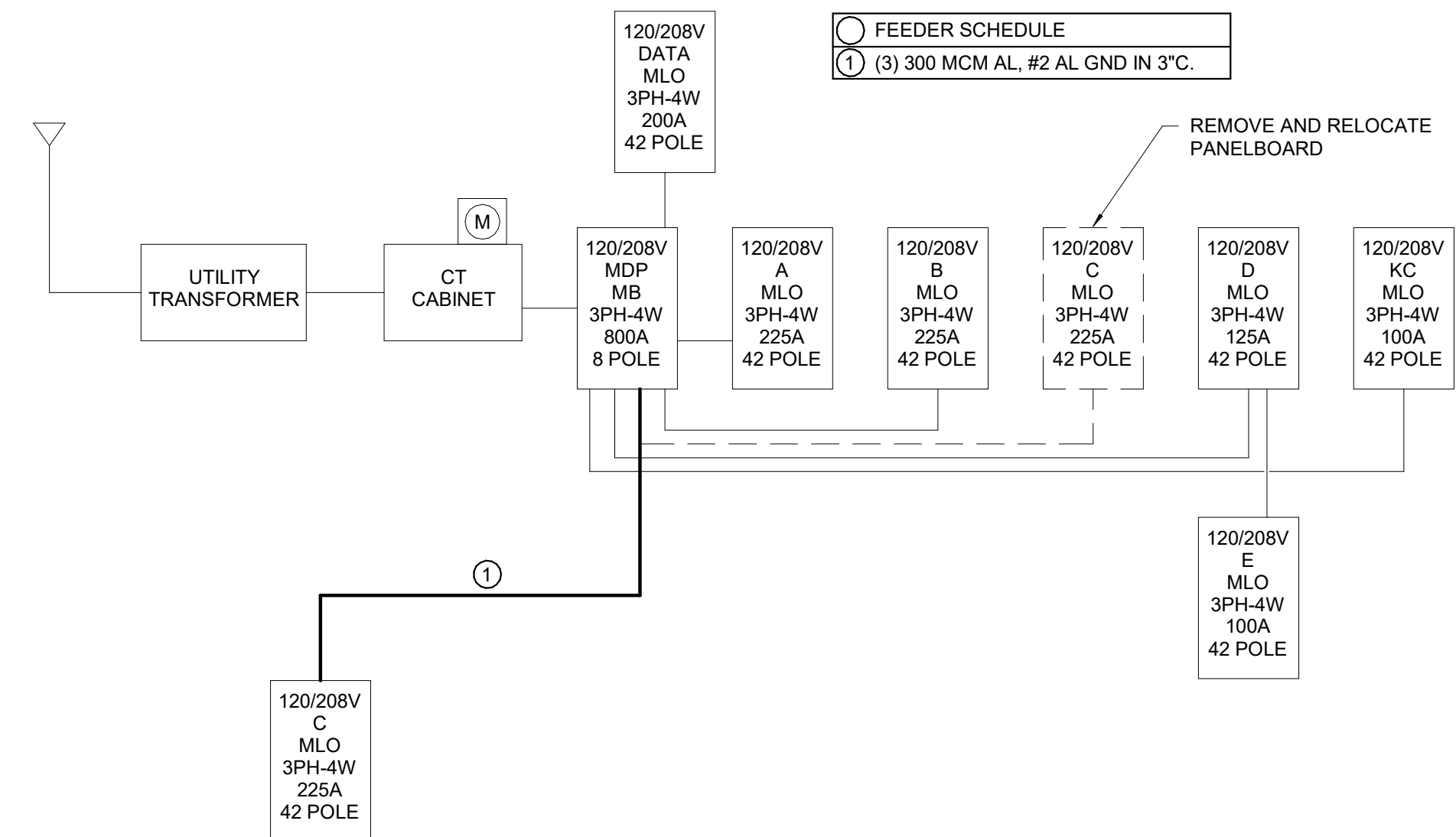
Notes:

| CKT | Circuit Description | Trip | Poles | A | B | C | Poles | Trip | Circuit Description | CKT | |
|--------------------|---------------------|-------|-------|----------|----------|----------|-------|------|---------------------|-----|--|
| 1 | DATA | 200 A | 3 | 0 | 0 | | | 3 | 200 A | 2 | |
| 3 | -- | -- | -- | | | | | -- | -- | 4 | |
| 5 | -- | -- | -- | | | 0 | 0 | -- | -- | 6 | |
| 7 | C | 200 A | 3 | 14762 | 0 | | | 3 | 200 A | 8 | |
| 9 | -- | -- | -- | | | 13990 | 0 | -- | -- | 10 | |
| 11 | -- | -- | -- | | | | 14996 | 0 | -- | 12 | |
| 13 | D | 100 A | 3 | 0 | 0 | | | 3 | 100 A | 14 | |
| 15 | -- | -- | -- | | | 0 | 0 | -- | -- | 16 | |
| 17 | -- | -- | -- | | | | | 0 | 0 | 18 | |
| 19 | SPACE | -- | 3 | -- | -- | | | 3 | -- | 20 | |
| 21 | -- | -- | -- | | | | | -- | -- | 22 | |
| 23 | -- | -- | -- | | | | | -- | -- | 24 | |
| Total Load: | | | | 14762 VA | 13990 VA | 14996 VA | | | | | |
| Total Amps: | | | | 124 A | 117 A | 126 A | | | | | |

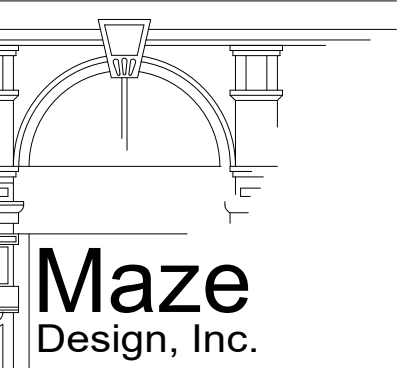
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Notes:



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 CENTRAL
 SCHOOL
 CORPORATION

WINCHESTER,
 INDIANA

Project No.: 2025128
 Coordinator: Auditor

Date: 12-08-2025

Revision: No. Date

PANELBOARD
 SCHEDULES AND
 SINGLE LINE
 DIAGRAM

| Branch Panel: A | | | | | | | | | | | |
|-------------------|---------------------|------|--------------------|-------------|------|---------------------|-------|------|---------------------|-------|----|
| Location: | | | Volts: 120/208 Wye | | | A.I.C. Rating: | | | | | |
| Supply From: DP2 | | | Phases: 3 | | | Mains Type: MLO | | | | | |
| Mounting: Surface | | | Wires: 4 | | | Mains Rating: 200 A | | | | | |
| Enclosure: Type 1 | | | | | | MCB Rating: 0 A | | | | | |
| Notes: | | | | | | | | | | | |
| CKT | Circuit Description | Trip | Poles | A | B | C | Poles | Trip | Circuit Description | CKT | |
| 1 | SPARE | 20 A | 1 | 0 | 0 | | | 1 | 20 A | SPARE | 2 |
| 3 | SPARE | 20 A | 1 | | | | | 1 | 20 A | SPARE | 4 |
| 5 | SPARE | 20 A | 1 | | | 0 | 0 | 1 | 20 A | SPARE | 6 |
| 7 | SPARE | 20 A | 1 | 0 | 0 | | | 1 | 20 A | SPARE | 8 |
| 9 | SPARE | 20 A | 1 | | 0 | 0 | | 1 | 20 A | SPARE | 10 |
| 11 | SPARE | 20 A | 1 | | | 0 | 0 | 1 | 20 A | SPARE | 12 |
| 13 | SPARE | 20 A | 1 | 0 | 0 | | | 1 | 20 A | SPARE | 14 |
| 15 | SPARE | 20 A | 1 | | 0 | 0 | | 1 | 20 A | SPARE | 16 |
| 17 | SPARE | 20 A | 1 | | | 0 | 0 | 1 | 20 A | SPARE | 18 |
| 19 | SPARE | 20 A | 1 | 0 | 0 | | | 1 | 20 A | SPARE | 20 |
| 21 | SPARE | 20 A | 1 | | 0 | 0 | | 1 | 20 A | SPARE | 22 |
| 23 | SPARE | 20 A | 1 | | | 0 | 0 | 1 | 20 A | SPARE | 24 |
| 25 | SPARE | 20 A | 1 | 0 | 0 | | | 1 | 20 A | SPARE | 26 |
| 27 | SPARE | 20 A | 1 | | 0 | 0 | | 1 | 20 A | SPARE | 28 |
| 29 | SPARE | 20 A | 1 | | | 0 | 0 | 1 | 20 A | SPARE | 30 |
| 31 | SPARE | 20 A | 1 | 0 | 0 | | | 1 | 20 A | SPARE | 32 |
| 33 | SPARE | 20 A | 1 | | 0 | 0 | | 1 | 20 A | SPARE | 34 |
| 35 | SPARE | 20 A | 1 | | | 0 | 0 | 1 | 20 A | SPARE | 36 |
| 37 | SPARE | 20 A | 1 | 0 | 0 | | | 1 | 20 A | SPARE | 38 |
| 39 | SPARE | 20 A | 1 | | 0 | 0 | | 1 | 20 A | SPARE | 40 |
| 41 | SPARE | 20 A | 1 | | | 0 | 0 | 1 | 20 A | SPARE | 42 |
| | | | | Total Load: | 0 VA | 0 VA | 0 VA | | | | |
| | | | | Total Amps: | 0 A | 0 A | 0 A | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals |
|---------------------|----------------|---------------|------------------|-------------------------|
| | | | | Total Conn. Load: 0 VA |
| | | | | Total Est. Demand: 0 VA |
| | | | | Total Conn.: 0 A |
| | | | | Total Est. Demand: 0 A |

Notes:

| Branch Panel: B | | | | | | | | | | | |
|-------------------|---------------------|------|--------------------|-------------|------|---------------------|-------|------|---------------------|-------------------------|----|
| Location: | | | Volts: 120/208 Wye | | | A.I.C. Rating: | | | | | |
| Supply From: DP2 | | | Phases: 3 | | | Mains Type: MLO | | | | | |
| Mounting: Surface | | | Wires: 4 | | | Mains Rating: 200 A | | | | | |
| Enclosure: Type 1 | | | | | | MCB Rating: 0 A | | | | | |
| Notes: | | | | | | | | | | | |
| CKT | Circuit Description | Trip | Poles | A | B | C | Poles | Trip | Circuit Description | CKT | |
| 1 | SPARE | 20 A | 1 | 0 | 0 | | | 1 | 20 A | LIBRARY (EXISTING) | 2 |
| 3 | SPARE | 20 A | 1 | | 0 | 0 | | 1 | 20 A | LIBRARY (EXISTING) | 4 |
| 5 | SPARE | 20 A | 1 | | | 0 | 0 | 1 | 20 A | LIBRARY (EXISTING) | 6 |
| 7 | SPARE | 20 A | 1 | 0 | 0 | | | 1 | 20 A | COMPUTER LAB (EXISTING) | 8 |
| 9 | SPARE | 20 A | 1 | | 0 | 0 | | 1 | 20 A | COMPUTER LAB (EXISTING) | 10 |
| 11 | SPARE | 20 A | 1 | | | 0 | 0 | 1 | 20 A | COMPUTER LAB (EXISTING) | 12 |
| 13 | SPARE | 20 A | 1 | 0 | 0 | | | 1 | 20 A | COMPUTER LAB (EXISTING) | 14 |
| 15 | SPARE | 20 A | 1 | | 0 | 0 | | 1 | 20 A | COMPUTER LAB (EXISTING) | 16 |
| 17 | SPARE | 20 A | 1 | | | 0 | 0 | 1 | 20 A | COMPUTER LAB (EXISTING) | 18 |
| 19 | SPARE | 20 A | 1 | 0 | 0 | | | 1 | 20 A | COMPUTER LAB (EXISTING) | 20 |
| 21 | SPARE | 20 A | 1 | | 0 | 0 | | 1 | 20 A | COMPUTER LAB (EXISTING) | 22 |
| 23 | SPARE | 20 A | 1 | | | 0 | 0 | 1 | 20 A | COMPUTER LAB (EXISTING) | 24 |
| 25 | SPARE | 20 A | 1 | 0 | 0 | | | 1 | 20 A | COMPUTER LAB (EXISTING) | 26 |
| 27 | SPARE | 20 A | 1 | | 0 | 0 | | 1 | 20 A | SPARE | 28 |
| 29 | SPARE | 20 A | 1 | | | 0 | 0 | 1 | 20 A | SPARE | 30 |
| 31 | SPARE | 20 A | 1 | 0 | 0 | | | 1 | 20 A | SPARE | 32 |
| 33 | SPARE | 20 A | 1 | | 0 | 0 | | 1 | 20 A | SPARE | 34 |
| 35 | SPARE | 20 A | 1 | | | 0 | 0 | 1 | 20 A | SPARE | 36 |
| 37 | SPARE | 20 A | 1 | 0 | 0 | | | 1 | 20 A | SPARE | 38 |
| 39 | SPARE | 20 A | 1 | | 0 | 0 | | 1 | 20 A | SPARE | 40 |
| 41 | SPARE | 20 A | 1 | | | 0 | 0 | 1 | 20 A | SPARE | 42 |
| | | | | Total Load: | 0 VA | 0 VA | 0 VA | | | | |
| | | | | Total Amps: | 0 A | 0 A | 0 A | | | | |

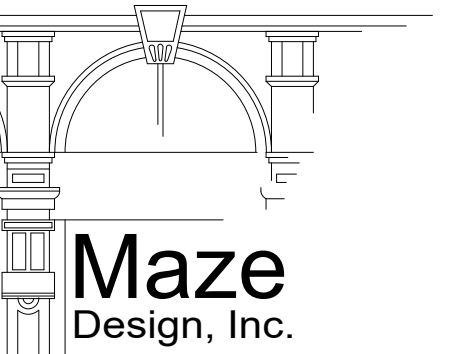
| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals |
|---------------------|----------------|---------------|------------------|-------------------------|
| | | | | Total Conn. Load: 0 VA |
| | | | | Total Est. Demand: 0 VA |
| | | | | Total Conn.: 0 A |
| | | | | Total Est. Demand: 0 A |

Notes:

| Branch Panel: D | | | | | | | | | | | |
|-------------------|---------------------|------|--------------------|-------------|------|---------------------|-------|------|---------------------|------------------|----|
| Location: | | | Volts: 120/208 Wye | | | A.I.C. Rating: | | | | | |
| Supply From: DP2 | | | Phases: 3 | | | Mains Type: MLO | | | | | |
| Mounting: Surface | | | Wires: 4 | | | Mains Rating: 100 A | | | | | |
| Enclosure: Type 1 | | | | | | MCB Rating: 100 A | | | | | |
| Notes: | | | | | | | | | | | |
| CKT | Circuit Description | Trip | Poles | A | B | C | Poles | Trip | Circuit Description | CKT | |
| 1 | VRV-1 (EXISTING) | 20 A | 2 | 0 | 0 | | | 2 | 20 A | VRV-2 (EXISTING) | 2 |
| 3 | -- | -- | -- | | 0 | 0 | | -- | -- | -- | 4 |
| 5 | VRV-3 (EXISTING) | 20 A | 2 | | | 0 | 0 | 2 | 20 A | VRV-4 (EXISTING) | 6 |
| 7 | -- | -- | -- | 0 | 0 | | | -- | -- | -- | 8 |
| 9 | VRV-5 (EXISTING) | 20 A | 2 | | 0 | 0 | | 2 | 20 A | SPARE | 10 |
| 11 | -- | -- | -- | | | 0 | 0 | -- | -- | -- | 12 |
| 13 | SPARE | 20 A | 2 | 0 | 0 | | | 2 | 20 A | SPARE | 14 |
| 15 | -- | -- | -- | | 0 | 0 | | -- | -- | -- | 16 |
| 17 | SPARE | 20 A | 1 | | | 0 | 0 | 1 | 20 A | SPARE | 18 |
| 19 | SPARE | 20 A | 1 | 0 | 0 | | | 1 | 20 A | SPARE | 20 |
| 21 | SPARE | 20 A | 1 | | 0 | 0 | | 1 | 20 A | SPARE | 22 |
| 23 | SPARE | 20 A | 1 | | | 0 | 0 | 1 | 20 A | SPARE | 24 |
| 25 | SPACE | -- | 1 | -- | -- | | | 1 | -- | SPACE | 26 |
| 27 | SPACE | -- | 1 | | -- | -- | | 1 | -- | SPACE | 28 |
| 29 | SPACE | -- | 1 | | | -- | -- | 1 | -- | SPACE | 30 |
| | | | | Total Load: | 0 VA | 0 VA | 0 VA | | | | |
| | | | | Total Amps: | 0 A | 0 A | 0 A | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals |
|---------------------|----------------|---------------|------------------|-------------------------|
| | | | | Total Conn. Load: 0 VA |
| | | | | Total Est. Demand: 0 VA |
| | | | | Total Conn.: 0 A |
| | | | | Total Est. Demand: 0 A |

Notes:



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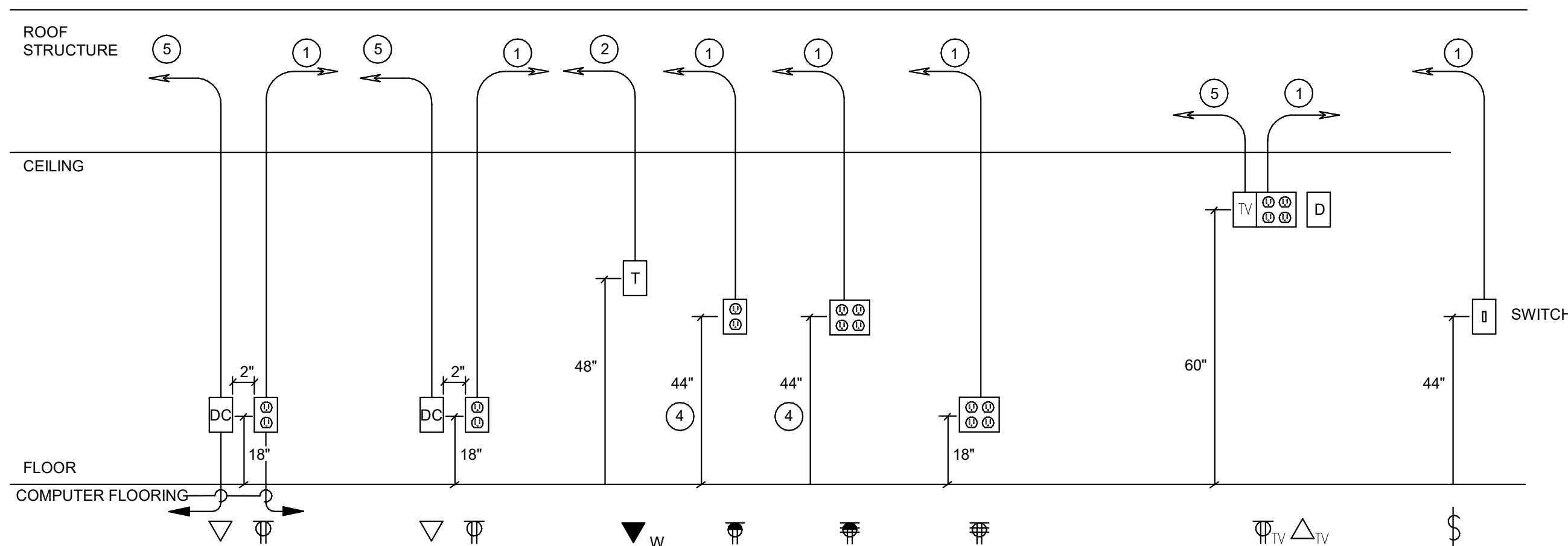
PANELBOARD
SCHEDULES

DETAIL NOTES:

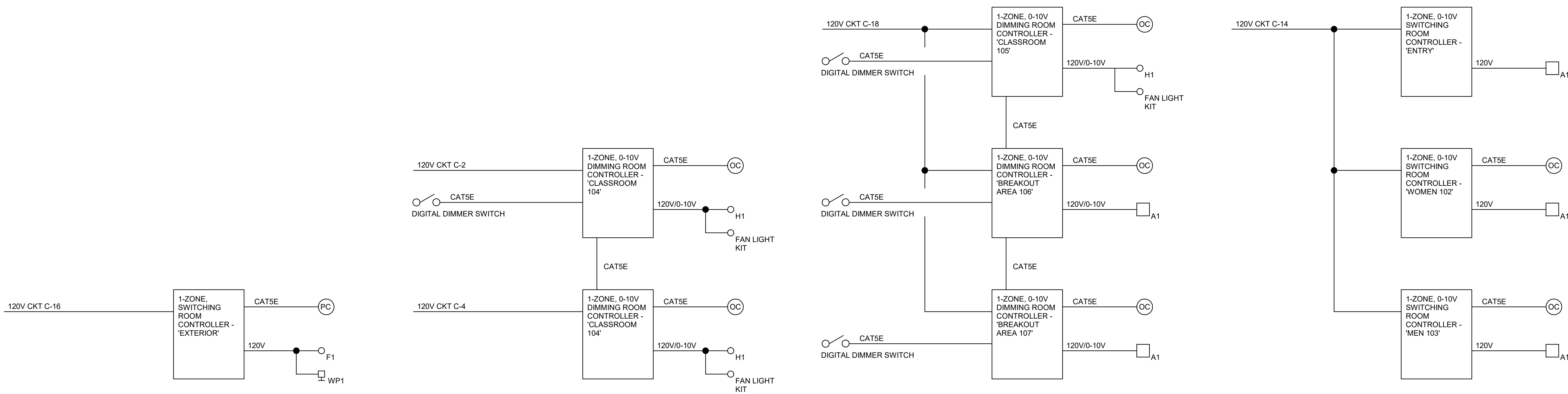
- 120V RECEPTACLE BRANCH CIRCUIT. REFER TO POWER PLANS
- 3/4" CONDUIT WITH CABLES TO CABLETRAY/DATA/COMM. BACKBOARD.
- SWITCH LEG.
- OR 4" ABOVE BACKPLASH
- STUB 1" CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE BUSHING

LEGEND

- DC DATA/COMMUNICATIONS OUTLET
- T TELEPHONE OUTLET
- TV AV BOX
- 120V POWER OUTLET
- SWITCH
- DOUBLE DUPLEX 120V POWER OUTLET



② TYPICAL DEVICE ELEVATION DETAILS
NTS



- SEQUENCE OF OPERATION**
1. EXTERIOR LIGHTING SHALL OPERATE AS AUTOMATIC ON/AUTOMATIC OFF.
 2. AUTOMATIC CONTROLS BY INTEGRAL ASTRONOMICAL TIME CLOCK.
 3. PHOTOCELL SHALL PROVIDE BACKUP CONTROL DURING STORMS, ETC.

BASIS OF DESIGN:
WATTSTOPPER DLM, CURRENT NX, OR APPROVED EQUAL.

CLASSROOM 104 DIMMING CONTROLS

- SEQUENCE OF OPERATION**
1. CLASSROOM LIGHTING SHALL OPERATE AS MANUAL ON/AUTOMATIC OFF. MANUAL SWITCH LOCATED AS SHOWN ON PLANS.
 2. AUTOMATIC OFF CONTROLS BY OCCUPANCY SENSORS.
 3. MANUAL SWITCHES SHALL VISUALLY INDICATE LOCATION WHILE OFF.
 4. MANUAL SWITCHES SHALL PROVIDE ON-RAISE-LOWER-OFF OPERATIONS.
 5. REFER TO PLANS FOR QUANTITIES OF SWITCHES AND SENSORS.

BASIS OF DESIGN:
WATTSTOPPER DLM, CURRENT NX, OR APPROVED EQUAL.

CLASSROOM 104 DIMMING CONTROLS

- SEQUENCE OF OPERATION**
1. CLASSROOM AND BREAKOUT AREA LIGHTING SHALL OPERATE AS MANUAL ON/AUTOMATIC OFF. MANUAL SWITCH LOCATED AS SHOWN ON PLANS.
 2. AUTOMATIC OFF CONTROLS BY OCCUPANCY SENSORS.
 3. MANUAL SWITCHES SHALL VISUALLY INDICATE LOCATION WHILE OFF.
 4. MANUAL SWITCHES SHALL PROVIDE ON-RAISE-LOWER-OFF OPERATIONS.
 5. REFER TO PLANS FOR QUANTITIES OF SWITCHES AND SENSORS.

BASIS OF DESIGN:
WATTSTOPPER DLM, CURRENT NX, OR APPROVED EQUAL.

CLASSROOM 105 AND BREAKOUT AREAS DIMMING CONTROLS

- SEQUENCE OF OPERATION**
1. ENTRY LIGHTING SHALL OPERATE AS TIME CLOCK ON/TIME CLOCK OFF PER INTEGRAL TIMECLOCK.
 2. PROGRAM SHALL MATCH EXISTING SCHOOL COORIDOR SCHEDULE.
 3. RESTROOM LIGHTING SHALL OPERATE AS AUTOMATIC ON/AUTOMATIC OFF.
 4. AUTOMATIC ON/OFF CONTROLS BY OCCUPANCY SENSORS. REFER TO PLANS FOR QUANTITIES OF SWITCHES AND SENSORS.

BASIS OF DESIGN:
WATTSTOPPER DLM, CURRENT NX, OR APPROVED EQUAL.

ENTRY/RESTROOM SWITCHING CONTROLS

① LIGHTING CONTROL DIAGRAMS
NTS

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Project No. 2029128
Coordinator.... Auditor

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ELECTRICAL
DETAILS

drawing

E5.0