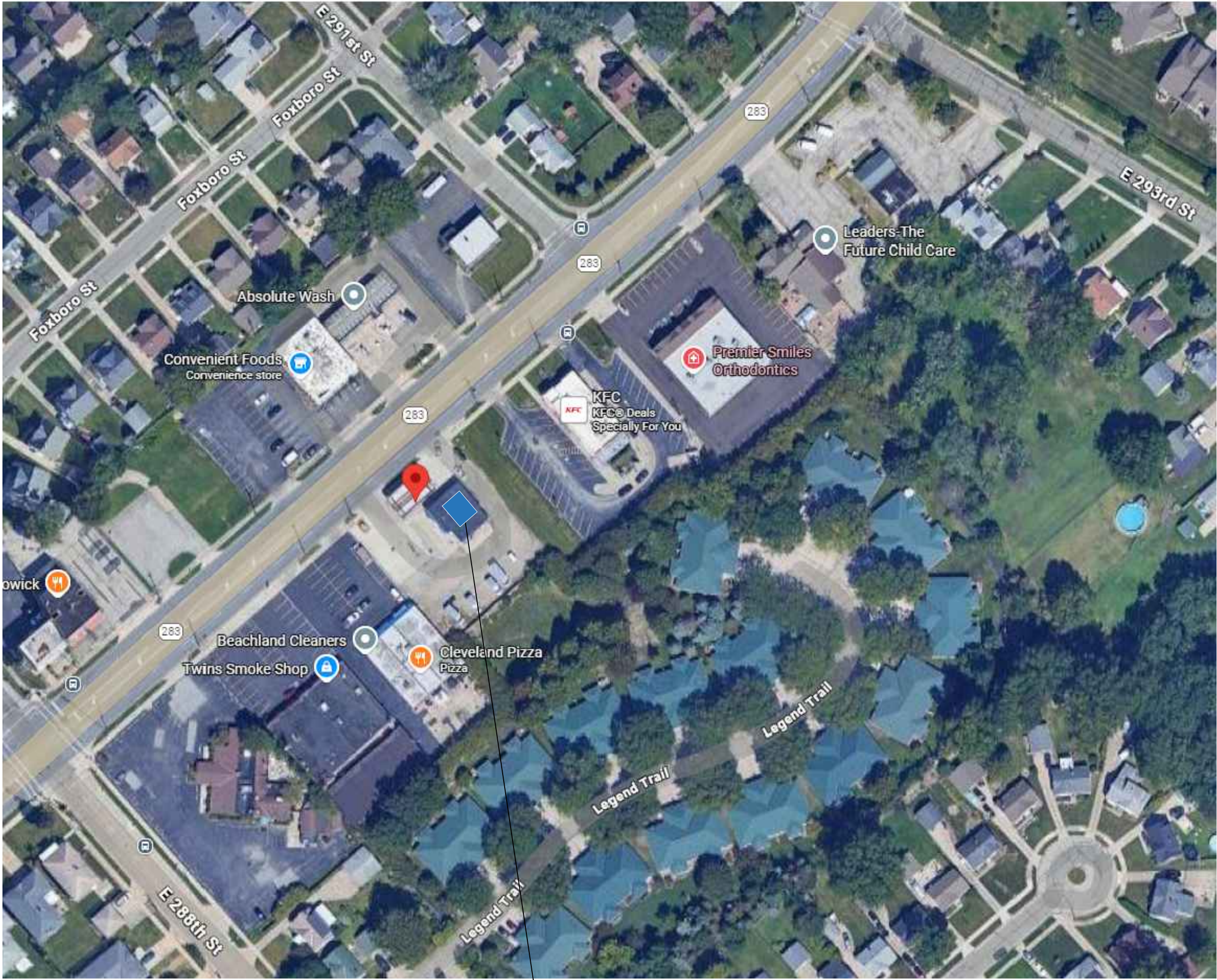




SITE LOCATION MAP



# REMODELING FOR: SUNOCO

29000 LAKESHORE BLVD.  
WILLOWICK, OHIO 44095  
LAKE COUNTY

## LIST OF DRAWINGS

|       |                                                  |
|-------|--------------------------------------------------|
| A000  | TITLE SHEET<br>CODE INFORMATION<br>SITE LOCATION |
| C2.00 | EXISTING SITE PHOTOS                             |
| C2.01 | TOPOGRAPHIC SURVEY                               |
| D100  | DEMOLITION PLAN                                  |
| S1    | STRUCTURAL SPECIFICATIONS                        |
| S2    | STRUCTURAL SPECIFICATIONS                        |
| S3    | STRUCTURAL DEMOLITION PLAN<br>FRAMING PLAN       |
| S4    | SECTIONS                                         |
| S5    | STRUCTURAL DETAILS                               |
| A100  | FLOOR PLAN<br>DOOR / ROOM SCHEDULES              |
| A110  | CEILING PLAN                                     |
| A300  | WALL SECTIONS                                    |
| A400  | EXTERIOR ELEVATIONS                              |

## CODE REFERENCES

2024 OHIO BUILDING CODE  
2024 OHIO MECHANICAL CODE  
2024 OHIO PLUMBING CODE  
2017 OHIO ENERGY CONSERVATION CODE  
2017 NATIONAL ELECTRIC CODE  
2009 ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

## 2024 OBC CODE INFORMATION

USE SUMMARY:

INTERIOR/EXTERIOR REMODELING OF EXISTING CONVENIENCE STORE

CONSTRUCTION TYPE (OBC 602)

5B COMBUSTIBLE/UNPROTECTED

MASONRY BEARING WALLS WITH WOOD JOISTS AND DECK ROOF FRAMING. CONCRETE SLAB ON GRADE FLOOR

USE GROUP CLASSIFICATION

EXISTING: M-MERCANTILE

PROPOSED: M-MERCANTILE

TOTAL ALLOWABLE AREA (TABLE 506.2)

PERMITTED NS: 14,000 S.F.

PROPOSED NS: 1,800 S.F. SINGLE FIRE AREA

BUILDING NOT EQUIPT WITH SPRINKLER SYSTEM

OCCUPANCY (TABLE 1004.1.1)

RETAIL 60 SF GROSS/ OCC. 960 SF / 60 = 16 OCCUPANTS

STOCK AREA 300 SF GROSS/ OCC. 840 SF / 300 = 3 OCCUPANTS

19 OCCUPANTS

REQUIRED EGRESS CAPACITY: 19 X .2 = 3.8"

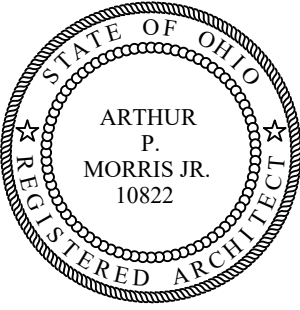
1 RESTROOM FIXTURE PROPOSED AT UNISEX RESTROOM



AM ARCHITECTURE, INC.  
ARCHITECTURE • DESIGN-BUILD

7210 GRANBY DRIVE  
HUDSON, OHIO 44236

Phone (330) 881-4128  
E-Mail: apm.amarchitecture@outlook.com



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WILLOWICK, OHIO 44095

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| DD:    | CHECKED BY:  | AM |
| FINAL: | REVIEWED BY: | AM |

VERIFY ALL  
DIMENSIONS IN FIELD

251101

CODE INFORMATION

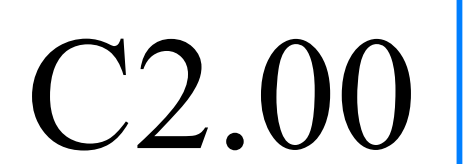
A000

## SITE SURVEY

RIVERSTONE  
LAND SURVEYING/ENGINEERING/DESIGN  
3800 LAKESIDE AVENUE  
CLEVELAND, OHIO 44114  
216-491-2000  
WWW.RIVERSTONESURVEY.COM

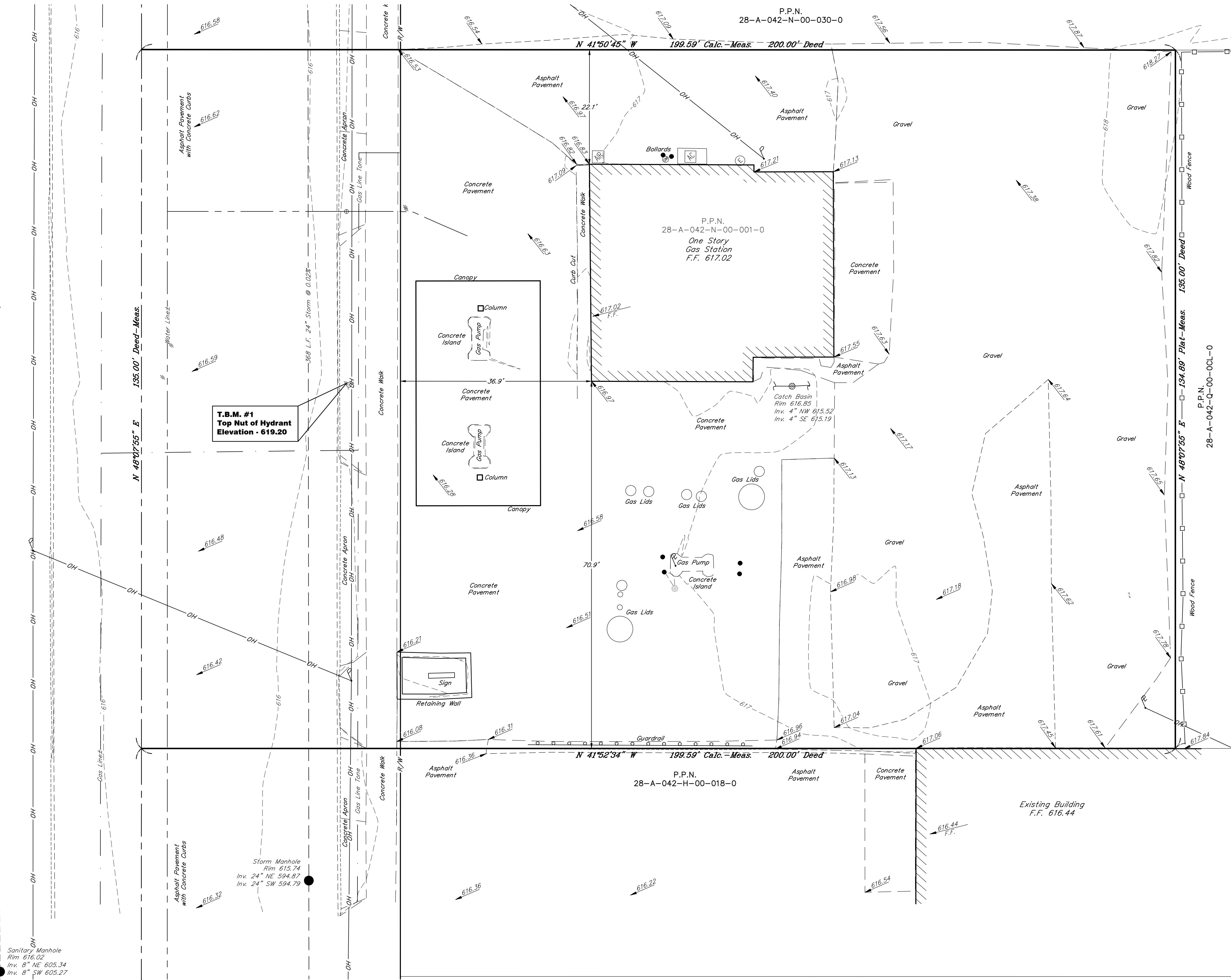
## STRUCTURAL ENGINEER

CARUSO ENGINEERING  
5545 WILSON MILLS ROAD  
HIGHLAND HEIGHTS, OHIO 44143  
440-459-6709  
WWW.CARUSO.ENG.COM



LAKESHORE BOULEVARD 80'  
(STATE ROUTE 283)  
(A PUBLIC RIGHT-OF-WAY)

302 L.F. 8" Sanitary @ 0.8%



P.P.N.  
28-A-042-Q-00-0CL-0

**LEGEND**

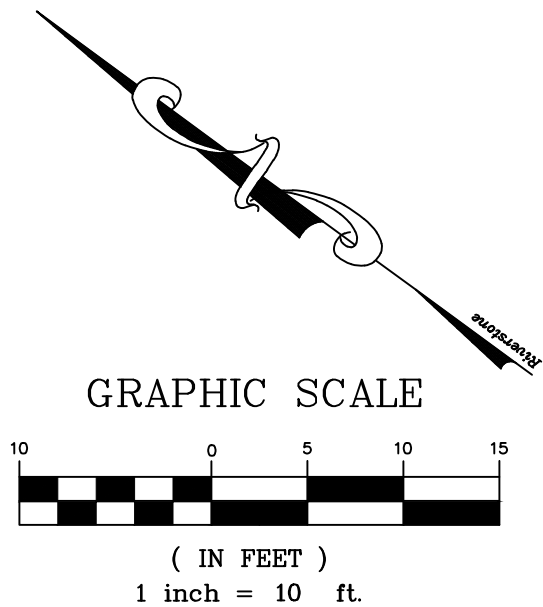
|  |                                                           |  |                       |
|--|-----------------------------------------------------------|--|-----------------------|
|  | = Monument Box Found                                      |  | = Spot Elevation Tag  |
|  | = Iron Pin or Pipe Found                                  |  | = Hydrant             |
|  | = 5/8" Iron Pin Set and Capped Riverstone Company PS 8740 |  | = Water Service Valve |
|  | = P.K. Nail                                               |  | = Water Valve         |
|  | = Gas Meter                                               |  | = Water Meter         |
|  | = Gas Valve                                               |  | = Reducer             |
|  | = Utility Pole                                            |  | = Storm Manhole       |
|  | = Light Pole                                              |  | = Sanitary Manhole    |
|  | = Guy Anchor & Line                                       |  | = Curb Inlet          |
|  | = Telephone Box                                           |  | = Catch Basin         |
|  | = Electric Box                                            |  | = Property Line       |
|  | = Cable Box                                               |  | = Centerline          |
|  | = Bollard                                                 |  |                       |
|  | = Cleanout / Test Tee                                     |  |                       |

Ex. Parcel line  
Original Sublot Line  
Original Lot Line  
Centerline  
Property Line  
Right-of-way Line  
Easement Line  
Railroad Tracks

Electric Line  
Gas Line  
Sanitary/Combination Sewer  
Storm Sewer  
Waterline  
Fence Line (Wooden)  
Fence Line (Chain-Link)  
Guardrail

Ac. Acres  
Adj. Adjacent  
A.F.N. Auditor's File Number  
Asp. Asphalt  
B.F. Basement Floor  
BW Bottom of Wall  
Calc./C. Calculated  
CB Catch Basin  
C.C.M.R. Cuyahoga County Map  
C.L.F. Chain-link Fence  
Clr. Clears  
C.O. Clean Out  
Comb. Combination  
Conc. Concrete  
Conn. Connection  
Conn. Connection  
D.H. Drill Hole  
D.I.W.M. Ductile Iron Water  
Elec. Electric  
Elev. Elevation  
Encr. Encroaches  
Ex. Existing  
F.F. Finished Floor  
GUT Gutter  
Inv. Invert

L.C.A. Limited Common Area  
L.F. Lineal Feet  
M.E. Match Existing  
Meas./M. Measured  
MH Manhole  
Obs. Observed  
Pg. Page  
P.P.N. Permanent Parcel  
Number  
Prop. Proposed  
Rec./R. Record  
R/W Right-of-way  
San. Sanitary  
S.F. Square Feet  
S/L Sublot  
Stm. Storm  
T.B.M. Temporary Bench Mark  
TBR To Be Removed  
T/C Top of Curb  
Tele. Telephone  
T.F. Top Of Footer  
T.T. Test Tee  
TW Top of Wall  
Typ. Typical  
Vol. Volume  
Wat. Water



GILCREST DRIVE  
(A PUBLIC RIGHT-OF-WAY)

EAST 288TH STREET  
(A PUBLIC RIGHT-OF-WAY)

Preliminary  
Not for  
Construction

**RIVERSTONE**  
LAND SURVEYING - ENGINEERING - DESIGN  
3800 LAKESIDE AVENUE - SUITE 100  
CLEVELAND, OHIO 44114  
PHONE: (216) 991-9640  
WWW.RIVERSTONEDESIGN.COM

2025-194

PLAN REVISIONS:

PAGE REVISIONS:

ISSUED FOR:  
DATE  
NOT FOR CONSTRUCTION

SPEEDY MART  
29000 LAKESHORE BOULEVARD  
WILLOWICK, OHIO  
EXISTING CONDITIONS

Ohio Utilities Protection Service  
**Call 811**  
before you dig

OGPUPS  
Ohio Oil & Gas Producers Underground Protection Service  
Call (614) 765-2861 or 811

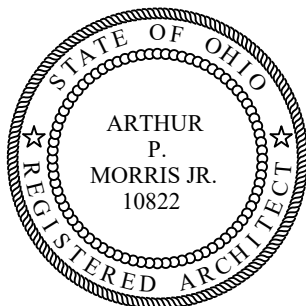
C2.01



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DD: CHECKED BY: AM  
FINAL: REVIEWED BY: AM

VERIFY ALL  
DIMENSIONS IN FIELD

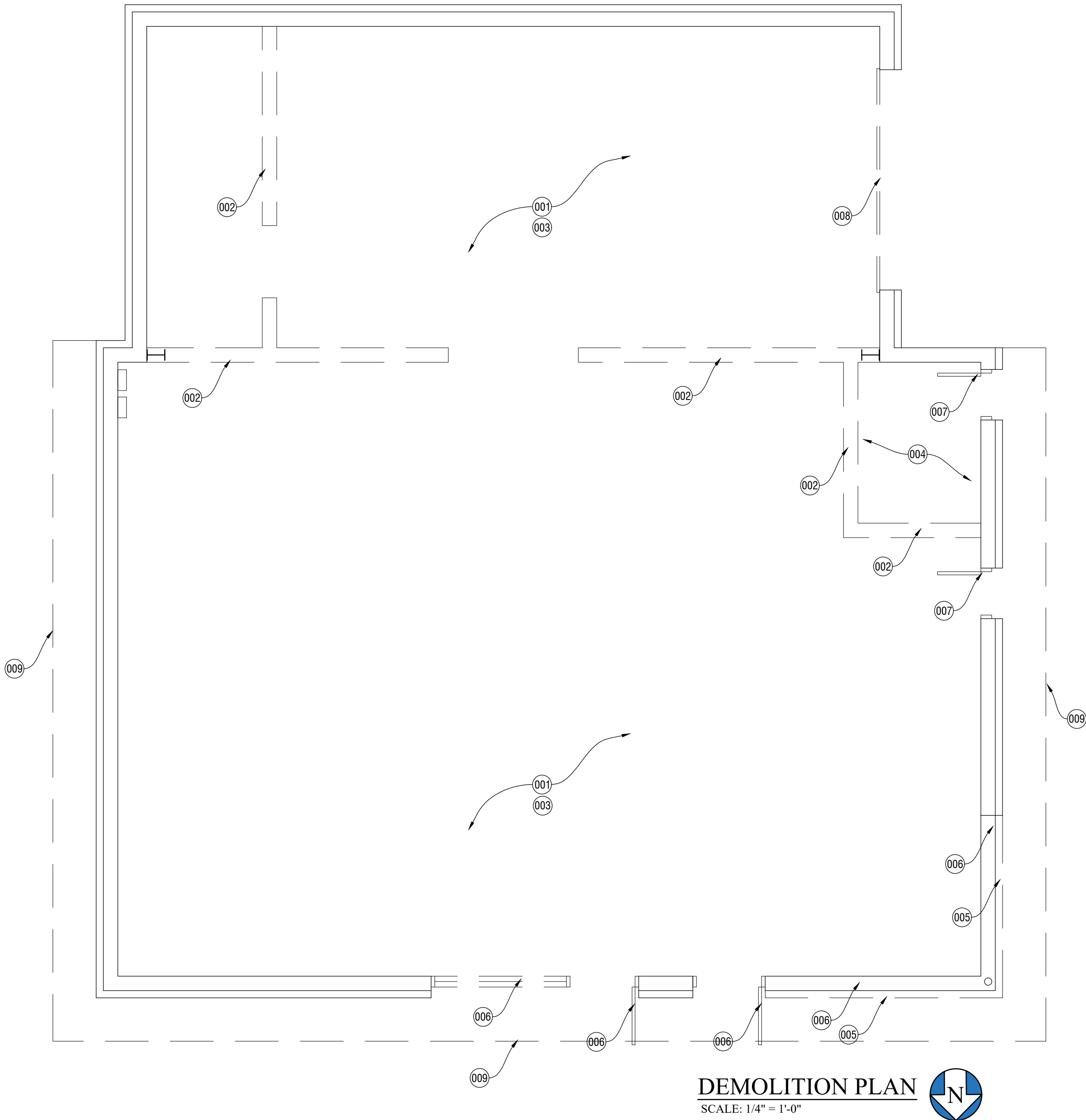
251101

DEMOLITION PLAN

D100

DEMO PLAN CODED NOTES

- 001 STRIP EXISTING FLOORING AND PREP FOR NEW CERAMIC TILE FLOOR FINISH
- 002 DEMO EXISTING RESTROOMS AND UTILITY ROOM. DEMO EXISTING CMU PARTITION WALL=SEE STRUCTURAL
- 003 DEMO EXISTING SUSPENDED CEILINGS
- 004 DEMO EXISTING PLUMBING FIXTURES—CAP ROUGH PLUMBING AT SOURCE MAIN. PROVIDE SEALED CAP AT CONC. FLOOR PENETRATIONS. LEVEL WITH CONCRETE TO ALIGN WITH EXISTING CONC.
- 005 DEMO EXISTING BRICK VENEER
- 006 DEMO EXISTING STOREFRONT DOORS AND WINDOWS
- 007 DEMO EXISTING HM DOOR AND FRAME
- 008 DEMO EXISTING OH DOOR AND RELATED FRAME
- 009 DEMO EXISTING OVERHANG AND FASCIA



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



CODES AND STANDARDS:

1. OHIO BUILDING CODE (OBC) 2024  
2. ASCE 7-22

DESIGN LOADS

1. GROUND SNOW LOAD, 30 PSF  
2. ROOF LIVE LOAD, 20 PSF

WIND AND SEISMIC CRITERIA

RISK CATEGORY = II

1. WIND LOAD CRITERIA:  
BASIC WIND SPEED = 115 MPH  
IMPORTANCE FACTOR, I<sub>w</sub> = 1.00  
EXPOSURE CAT. = C
2. SEISMIC CRITERIA:  
S<sub>1</sub> = 0.044g  
S<sub>S</sub> = 0.141g  
IMPORTANCE FACTOR, I<sub>e</sub> = 1.50  
SITE CLASS = D  
R<sub>w</sub> = 6.5  
C<sub>t</sub> = 0.020  
SEISMIC DESIGN CATEGORY = B
3. SNOW LOAD CRITERIA:  
P<sub>g</sub> = 30 PSF  
C<sub>e</sub> = 0.9  
C<sub>t</sub> = 1.0  
IMPORTANCE FACTOR, I<sub>s</sub> = 1.20  
P<sub>s</sub> = 0.7 C<sub>e</sub> C<sub>t</sub> I<sub>s</sub> P<sub>g</sub> = 23 PSF  
= 23 PSF (GOVERNING)

SOILS

1. PRESUMPTIVE BEARING CAPACITY: 2,000 PSF

ABBREVIATIONS

|       |                                          |
|-------|------------------------------------------|
| AB    | ANCHOR BOLT                              |
| AESS  | ARCHITECTURALLY EXPOSED STRUCTURAL STEEL |
| CJ    | CONTROL JOINT                            |
| EJ    | EXPANSION JOINT                          |
| EE    | EACH END                                 |
| EF    | EACH FACE                                |
| EW    | EACH WAY                                 |
| EOS   | EDGE OF SLAB                             |
| HSS   | HOLLOW STRUCTURAL STEEL                  |
| IF    | INSIDE FACE                              |
| LW    | LONG WAY                                 |
| NFP   | NO FIREPROOFING                          |
| NTS   | NOT TO SCALE                             |
| OC    | ON CENTER                                |
| SIM   | SIMILAR                                  |
| SOG   | SLAB ON GRADE                            |
| STL   | STEEL                                    |
| T&B   | TOP AND BOTTOM                           |
| TOC   | TOP OF CONCRETE                          |
| TOS   | TOP OF SLAB                              |
| TOSTL | TOP OF STEEL                             |
| TOW   | TOP OF WALL                              |
| UON   | UNLESS OTHERWISE NOTED                   |
| VIF   | VERIFY IN FIELD                          |
| WP    | WORKING POINT                            |
| WWF   | WELDED WIRE FABRIC                       |

GENERAL

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. IN CASE OF CONFLICT, MORE COSTLY REQUIREMENTS GOVERN FOR BIDDING. SUBMIT CLARIFICATION REQUEST PRIOR TO PROCEEDING WITH WORK.
2. ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE.
3. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK. UNLESS NOTED OTHERWISE, DETAILS IN STRUCTURAL DRAWINGS ARE TYPICAL AS INDICATED BY CUTS, REFERENCES, OR TITLES.
4. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES:  
4.1. OBC AND LATEST REVISIONS REFERRED TO HERE AS "THE CODE", AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK.
5. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT NOT BE LIMITED TO BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
6. ASTM SPECIFICATIONS ON THE DRAWINGS SHALL BE OF THE LATEST REVISION.
7. CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
8. CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED ROOF. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.
9. UNLESS NOTED OTHERWISE, EXPANSION BOLTS IN CONCRETE SHALL BE 1/2" DIAMETER X 3 1/2" EMBEDMENT HILTI KWIK BOLTS 11 (ICBO 462T) OR APPROVED ALTERNATE WITH ALLOWABLE VALUES EQUAL TO OR EXCEEDING THOSE FOR HILTI, PER CURRENT ICBO RESEARCH REPORT. UNLESS NOTED OTHERWISE, ALL EPOXY ANCHORS SHALL BE 1/2" DIAMETER WITH 4 1/4" EMBEDMENT HILTI HIT SYSTEM (ICBO 4016) OR APPROVED ALTERNATE WITH ALLOWABLE VALUES EQUAL TO OR EXCEEDING THOSE FOR HILTI, PER CURRENT ICBO RESEARCH REPORT. INSTALL EXPANSION AND EPOXY ANCHORS PER MANUFACTURERS RECOMMENDATIONS.
10. GROUT OTHER THAN FOR MASONRY CELLS SHALL BE NON-SHRINK, NON-METALLIC, MEETING ASTM C-827, C-191 AND C-109, MIXED AND INSTALLED PER MANUFACTURER SPECIFICATIONS. MINIMUM COMPRESSIVE STRENGTH 5,000 PSI IN TWO DAYS.
11. PROVIDE HEADERS AT ALL WALL OPENINGS AS INDICATED. MINIMUM (2)2X6 HEADER SHALL BE PROVIDED AT ALL DOOR AND WINDOW OPENINGS IF NONE IS SPECIFIED. ALL HEADERS SHALL BE SUPPORTED ON TIMBER POSTS AS INDICATED. IF NO POSTS ARE INDICATED, PROVIDE A MINIMUM OF (2)2X4.

FOUNDATION

1. FOUNDATION ELEMENTS SHALL BEAR ON UNDISTURBED SOIL.
2. NO BACKFILL SHALL BE PLACED AGAINST FOUNDATION WALLS UNLESS SUPPORTING SLABS ARE IN PLACE AND SET OR THE WALLS ARE ADEQUATELY BRACED.
3. DEWATERING OF THE SITE IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID UNDERMINING EXISTING FOUNDATIONS. METHOD OF DEWATERING AND RELATED CALCULATIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND MUST COMPLY WITH THE SOILS AND GROUND WATER MANAGEMENT SPECIFICATIONS FOR THIS PROJECT.
4. PROVIDE DOWELS IN FOUNDATIONS FOR ALL WALLS, COLUMNS AND SHEAR WALLS OF SAME NUMBER AND SIZE AS THE VERTICAL REINFORCEMENT ABOVE.
5. PROVIDE WATERSTOPS AT ALL VERTICAL CONSTRUCTION JOINTS IN WALLS BELOW GRADE.
6. CONTRACTOR TO INSTALL ALL PIPE SLEEVES, BOXED OPENINGS, ANCHOR BOLTS, INSERTS ETC. AS REQUIRED FOR THE VARIOUS TRADES. WALL POCKETS AND EMBED FLATES, TO RECEIVE BEAMS AND SLABS, SHALL BE PROVIDED AS REQUIRED FOR THE SUPERSTRUCTURE. SHOP DRAWINGS SHOWING THE POSITION OF THE OPENINGS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO PLACEMENT OF CONCRETE.
7. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SUBSURFACE AND EXISTING CONDITIONS BEFORE COMMENCING THE WORK.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION OF ALL EXCAVATION SLOPES. WHERE NECESSARY, SHEETING, SHORING AND UNDERPINNING OF EXCAVATION SHALL BE PROVIDED WITH ALL REQUIRED TIE BACKS AND BRACING.
9. METHODS EMPLOYED IN ALL SHEETING, SHORING AND UNDERPINNING SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR AND LICENSED IN THE STATE OF OHIO.
10. TEMPORARY BRACING SHALL BE PROVIDED FOR ALL BUTTRESSES. WHERE BUTTRESSES DO NOT EXIST OR SPACING BETWEEN BUTTRESSES EXCEEDS 25 FEET, AND WHERE THE DIFFERENCE IN LEVEL BETWEEN INSIDE AND OUTSIDE GRADE IS MORE THAN 4'-0", INTERMEDIATE BRACING SHALL BE PROVIDED. WHERE RAMPS OCCUR, THE GRADE ELEVATION OUTSIDE OF RAMP WALLS SHALL BE USED IN FIGURING THE DIFFERENCE IN LEVEL. CORNER BUTTRESSES NEED NOT BE BRACED. NO BACKFILLING IS TO BE DONE BEFORE ALL SLABS WHICH PROVIDE BRACING FOR WALLS ARE IN PLACE, UNLESS APPROVED BY THE ENGINEER. PROVIDE TEMPORARY BRACING FOR ALL PIERS AND SUMP PITS.
11. ALL FOUNDATION ELEMENTS ARE TO BE CENTERED ON COLUMNS ABOVE, U.O.N.
12. FOUNDATION ELEVATIONS SHOWN ON THE DRAWINGS HAVE BEEN ESTIMATED USING THE GEOTECHNICAL REPORT. ACTUAL ELEVATIONS OF FOUNDATION ELEMENT BOTTOMS WILL BE DETERMINED BY FIELD CONDITIONS.

CONCRETE:

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19 OF THE CODE AND WITH THE PROVISIONS OF ACI 318, LATEST EDITION. REINFORCED CONCRETE IS DESIGNED BY THE "ULTIMATE STRENGTH DESIGN METHOD".
2. CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY AND APPROVED BY THE STRUCTURAL ENGINEER. MIX DESIGN METHODS (TEST HISTORY OR TRAIL BATCH METHOD) PER CODE SECTION 1905.3 SHALL BE USED TO PROPORTION CONCRETE. SUBMIT MIX DESIGN METHOD DATA.
4. SCHEDULE OF STRUCTURAL CONCRETE: 28-DAY STRENGTH AND TYPES:
- | LOCATION IN STRUCTURE | STRENGTH | DENSITY | SLUMP |
|-----------------------|----------|---------|-------|
| ALL CONCRETE FOOTINGS | 4,000    | 150 PCF | 4"-6" |
| SLAB-ON-GRADE         | 4,000    | 150 PCF | 4"-6" |
5. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE I OR II. FLY ASH IS NOT PERMITTED IN MIXES.
6. AGGREGATE FOR CONCRETE SHALL CONFORM TO ALL REQUIREMENTS AND TESTS OF ASTM C-33 AND PROJECT SPECIFICATIONS.
7. CONCRETE MIXING OPERATION, ETC. SHALL CONFORM TO ASTM C-94
8. PLACEMENT OF CONCRETE SHALL CONFORM TO CODE SECTION 1905 AND PROJECT SPECIFICATIONS. CLEAN AND ROUGHEN TO 1/4" AMPLITUDE ALL CONCRETE SURFACES AGAINST WHICH NEW CONCRETE IS TO BE PLACED.
9. ALL REINFORCING BARS, ANCHOR BOLTS, AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
10. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT. CORING CONCRETE IS NOT PERMITTED. NOTIFY THE ENGINEER OF CONDITIONS NOT SHOWN ON THE DRAWINGS IN ADVANCE OF PROCEEDING WITH WORK. SEE THESE DRAWINGS FOR ADDITIONAL RESTRICTIONS ON THE PLACEMENT OF OPENINGS IN SLABS AND WALLS.
11. PIPES LARGER THAN 1-1/2" DIAMETER SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY THE ENGINEER. PIPES SHALL NOT DISPLACE OR INTERRUPT REINFORCING BARS. SPACE EMBEDDED PIPES AT A MINIMUM OF 3 DIAMETERS.
12. CUT CONTROL JOINTS FOR SLABS ON GRADE A MAXIMUM OF 20'-0" O.C., UNLESS NOTED OTHERWISE ON THE CONTRACT DOCUMENTS. CUT JOINTS WITHIN EIGHT (8) HOURS AFTER PLACING CONCRETE. CURE CONCRETE BY WET CURING OR LIQUID SPRAY CONFORMING TO ASTM C-309. CONTRACTOR TO VERIFY CURING AGENT IS COMPATIBLE WITH ANY FLOOR ADHESIVES SPECIFIED WITHIN THE CONTRACT DOCUMENTS.

MASONRY

1. CONSTRUCT ALL MASONRY WALLS IN ACCORDANCE WITH ACI 530.1 SPECIFICATIONS UNLESS OTHERWISE SHOWN OR NOTED, WITH REQUIREMENTS FOR OWNER INSPECTION AND ACCEPTANCE DELETED.
2. MATERIALS:
- 2.1. HOLLOW LOAD BEARING UNITS: ASTM C-90 (GRADE N-I)
- 2.2. SOLID LOAD BEARING UNITS: ASTM C-145 (GRADE N-1)
- 2.3. CONCRETE BRICK: ASTM C-55 (GRADE N-I)
- 2.4. FACING BRICK: ASTM C-128, TYPE FBS, GRADE SW
- 2.5. NON LOAD BEARING UNITS: ASTM C-129
- 2.6. MORTAR (TYPE M OR S): ASTM C-270
- 2.7. GROUT: ASTM C-476 (2,500 PSI)
- 2.8. REINFORCING STEEL BARS: ASTM A-615 GRADE 60
3. MASONRY PRISM STRENGTH (F ' M) = 1,800 PSI AT 28 DAYS, U.N.O.
4. MORTAR USAGE FOR ABOVE AND BELOW GRADE WALLS:
- 4.1. REINFORCED MASONRY: TYPE M
- 4.2. LOAD BEARING (INTERIOR AND EXTERIOR): TYPE S
5. IN MASONRY WALLS, NO CHASES, RISERS, CONDUITS OR TOOTHING OF MASONRY SHALL OCCUR WITHIN 17" OF CENTERLINE OF BEAM BEARING OR CONCENTRATED LOADS.
6. USE TWO COURSES (16") OF SOLID OR GROUTED SOLID MASONRY BELOW EACH BEAM BEARING.
7. PROVIDE HORIZONTAL JOINT REINFORCING IN ALL MASONRY WALLS AT 16" O.C. VERTICALLY. HORIZONTAL JOINT REINFORCING SHALL BE DUR-O-WAL EXTRA- HEAVY-DUTY TRUSS TYPE, 3/16" GALVANIZED WIRE, OR EQUAL.
8. PROVIDE UNITS APPROPRIATE FOR THE USE, I.E., SASH, BULLNOSE, BOND, ETC. ...
9. PROVIDE FIRE RATED OR EQUIVALENT MASONRY UNITS AT FIREWALLS, STAIRWELLS. CERTIFICATES OF COMPLIANCE SHALL BE FURNISHED UPON REQUEST.

| ISSUE     |             | DATE       |
|-----------|-------------|------------|
| PERMIT    |             | 10/21/2025 |
| revisions |             |            |
| no.       | description | date       |
| 1         | ADDENDUM 1  | 10/21/25   |
|           |             |            |
|           |             |            |
|           |             |            |
|           |             |            |
|           |             |            |
|           |             |            |
|           |             |            |



STRUCTURAL MODIFICATION  
SERVICE STATION BUILDING  
29000 LAKESHORE BLVD  
WILLOWICK, OH 44095

|                            |
|----------------------------|
| PROJECT NO.<br>1226        |
| SHEET NAME<br>NOTES I      |
| SHEET NO.<br><div>S1</div> |

STRUCTURAL STEEL

1. DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO THE LATEST EDITION AS REFERENCED BY THE APPLICABLE BUILDING CODE, OF THE AISC "STEEL CONSTRUCTION MANUAL" AND AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", HEREIN REFERRED TO AS "AISC MANUAL" AND "AISC SPECIFICATION".

A. STRUCTURAL STEEL: (W SHAPES) ASTM A992 (FY=50KSI)

B. (PLATE GIRDERS) ASTM A572 GRADE 50 (FY=50KSI)

C. (M, S, C SHAPES) ASTM A36 UNO

D. (PLATE, ANGLES) ASTM A36 UNO

E. HSS: (TUBULAR SHAPES) ASTM A500 GRADE C (FY=50KSI)

F. (ROUND SHAPES) ASTM A500 GRADE C (FY=46KSI)

G. PIPE SECTIONS: ASTM A53, TYPE E OR S, GRADE B (FY=35KSI)

H. ALL ANCHOR RODS SHALL BE ASTM F1554 GRADE 36, UNO.

I. ALL STRUCTURAL STEEL NOT TO RECEIVE SPRAY FIRE-PROOFING SHALL BE PRIMED WHITE OR LIGHT GRAY; ASPHALTIC PAINTS ARE NOT ACCEPTABLE.

J. ALL COLUMN BASE PLATES SHALL HAVE A MINIMUM OF FOUR ANCHOR RODS.

2. CONNECTIONS SHOWN ON THESE DRAWINGS ARE GENERALLY SCHEMATIC. THEY ARE INTENDED TO DEFINE THE SPATIAL RELATIONSHIP OF THE FRAMED MEMBERS AND SHOW A FEASIBLE METHOD OF MAKING THE CONNECTION. ANY CONNECTION THAT IS NOT SHOWN OR IS NOT COMPLETELY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER, RETAINED BY THE FABRICATOR. DETAILS AND CONNECTIONS MAY BE DESIGNED TO CONFORM TO AISC MANUAL. COMPLETELY DETAILED MEANS THE FOLLOWING INFORMATION IS SHOWN ON THE SHOP DETAIL DRAWINGS:

A. ALL PLATE DIMENSIONS AND GRADE.

B. ALL WELD SIZES, LENGTHS, PITCHES AND RETURNS.

C. ALL HOLE SIZES AND SPACINGS.

D. NUMBER AND TYPE OF BOLTS; WHERE BOLTS ARE SHOWN BUT NO NUMBER IS GIVEN, THE CONNECTION HAS NOT BEEN COMPLETELY DETAILED.

E. WHERE PARTIAL INFORMATION IS GIVEN, IT SHALL BE THE MINIMUM REQUIREMENT FOR CONNECTION.

F. METHOD OF DESIGN.

3. SUBMIT CALCULATIONS STAMPED & SIGNED BY AN ENGINEER REGISTERED IN THE STATE OF OHIO INCLUDING, BUT NOT LIMITED TO, MOMENT CONNECTIONS (FLEXIBLE AND FULLY RESTRAINED MOMENT CONNECTIONS), BRACING GUSSET PLATES AND CONNECTION TO BEAM/COLUMN ASSEMBLY, WEB-TO-CHORD CONNECTION AT TRUSSES, AND ANY UNIQUE CONNECTIONS THAT ARE NOT COMPLETELY DETAILED ON THESE DRAWINGS.

4. DETAILS AND CONNECTIONS COMPLETELY DETAILED IN THE CONTRACT DRAWINGS MAY NOT BE ALTERED WITHOUT WRITTEN APPROVAL BY THE ENGINEER. WHERE APPROVED, ALTERED CONNECTIONS SHALL BE COMPLETELY DETAILED BY THE FABRICATOR'S ENGINEER CLEARLY ON THE SHOP DRAWINGS.

5. ALTERATIONS OF SCHEMATIC CONNECTION DETAILS MAY IMPACT ARCHITECTURAL CONCEPT AND SHALL NOT BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER.

6. MINIMUM CONNECTION PLATE THICKNESS SHALL BE 3/8", UNLESS OTHERWISE INDICATED IN THE CONTRACT DRAWINGS.

7. FOR W, M, S, AND C SHAPES, UNLESS OTHERWISE NOTED, BEAM TO BEAM CONNECTIONS AND BEAM TO COLUMN CONNECTIONS SHALL BE ONE OF THE FOLLOWING DOUBLE ANGLE (T MIN=5/16") FRAMED BEAM CONNECTIONS:

A. SHOP WELDED PER TABLE 10-2, AISC MANUAL FOR USING WELD A, AND USING 3/4" DIAMETER A325-N BOLTS IN STANDARD OR HORIZONTALLY SLOTTED HOLES FOR THE FIELD CONNECTION.

B. ALL BOLTED CONNECTIONS PER TABLE 10-1, AISC MANUAL. CONTROLLING STRENGTH OF CONNECTION SHALL BE LEAST OF BOLT / ANGLE STRENGTH OR BEAM WEB STRENGTH TAKING INTO ACCOUNT COPED FLANGES. THE MINIMUM LENGTH OF CONNECTION ANGLES SHALL BE EQUAL TO ONE-HALF THE DEPTH OF THE MEMBER TO BE SUPPORTED.

8. UNLESS OTHERWISE NOTED, ALL CONNECTIONS AT HSS SECTIONS SHALL BE DESIGNED AND DETAILED IN ACCORDANCE WITH THE AISC MANUAL AND AISC SPECIFICATION.

9. WHERE THE REACTIONS OF UNIFORMLY LOADED BEAMS AND GIRDERS ARE NOT SHOWN ON THE DRAWINGS, THE CONNECTIONS SHALL BE DESIGNED TO SUPPORT THE REACTIONS DUE TO THE MAXIMUM ALLOWABLE UNIFORM LOAD AS INDICATED IN THE LOAD TABLES OF THE AISC MANUAL, PART 3 FOR THE GIVEN BEAM SIZE AND SPAN. FOR BEAMS AND GIRDERS NOT UNIFORMLY LOADED SEE PLAN FOR REACTION; IF NO REACTION IS SHOWN, CONTACT ENGINEER OF RECORD FOR REACTIONS.

10. ALL BOLTS SHALL BE CONSIDERED BEARING BOLTS. DO NOT OVERTIGHTEN BEARING BOLTS, ESPECIALLY FOR BEAMS TO SUPPORT CONCRETE SLABS. TIGHTEN BEARING BOLTS TO A SNUG CONDITION ONLY, PER AISC SPECIFICATIONS.

11. TWIST-OFF TYPE TENSION CONTROL BOLTS ARE NOT PERMITTED TO BE USED AS BEARING BOLTS.

12. ALL MOMENT PLATE CONNECTIONS SHALL BE DESIGNED FOR THE FULL MOMENT CAPACITY (AS TABULATED IN THE AISC MANUAL, PART 3) OF THE BEAM, UNLESS NOTED OTHERWISE. LOCAL STRESSES AT BOLT HOLES DO NOT GOVERN.

13. ALL WELDING SHALL BE DONE USING E-70XX ELECTRODES IN ACCORDANCE WITH THE LATEST AWS SPECIFICATIONS.

14. WORK THESE DRAWINGS WITH ARCHITECTURAL DRAWINGS FOR NAILER HOLES AND ARCHITECTURAL CLEARANCES.

15. GENERAL CONTRACTOR SHALL VERIFY ALL STRUCTURAL BEAM LOCATIONS, MECHANICAL UNIT WEIGHTS AND OPENING SIZES AND LOCATIONS WITH MECHANICAL CONTRACTOR AND VENDOR'S DRAWINGS FOR ACTUAL MECHANICAL UNIT PURCHASED.

16. SPLICING OF STRUCTURAL MEMBERS WHERE NOT DETAILED ON THE DRAWINGS IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.

17. SCREED PLATES, FOUR STOPS AND SLAB SUPPORTS AT SLAB OPENINGS, AT SLAB EDGES AND SUPPORTS FOR METAL DECK AROUND COLUMNS SHALL BE FURNISHED BY THE CONTRACTOR AS REQUIRED TO COMPLETE THE WORK.

18. CUTS, HOLES, COPING, ETC. REQUIRED FOR WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS AND MADE IN THE SHOP. CUTS OR BURNING OF HOLES IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED, UNLESS SPECIFICALLY APPROVED IN EACH CASE BY THE STRUCTURAL ENGINEER.

19. ALL HSS SHAPES (ROUND, SQUARE, RECTANGULAR, ETC.) ARE TO HAVE A 1/4" CAP PLATE AT ALL EXPOSED ENDS. CAP PLATES TO BE SEAL WELDED ALL AROUND, UNO. PROVIDE 3/8"Ø WEEP HOLES IN THE CENTER OF THE PLATE.

20. ALL WELD SIZES NOT SHOWN IN DETAILS HEREIN SHALL BE THE MINIMUM REQUIRED SIZE BASED ON THICKNESS OF THINNER PART AS PER AISC SPECIFICATION, TABLES J2.3 & J2.4. EXCEPTION: AT MEMBER SPLICES WELDS OR BOLTS SHALL DEVELOP FULL STRENGTH OF THE MEMBER OR COMPONENTS BEING CONNECTED.

21. ALL AROUND WELDS INDICATED HEREIN SHALL BE DISCONTINUOUS AT THE FLANGE TIPS OF OPEN SECTIONS.

22. ALL STRUCTURAL STEEL, INCLUDING BASE PLATES AND TOPS OF ANCHOR BOLTS, TO BE EXPOSED TO SOIL ARE TO BE COATED WITH AN APPROVED COAL TAR EPOXY, 16 MILS MINIMUM THICKNESS.

23. ANY ALTERATION MADE BY THE DETAILER ON THE STRUCTURAL STEEL SHOP DRAWINGS TO SCHEMATIC OR COMPLETELY DETAILED CONNECTIONS SHOWN ON THE CONTRACT DRAWINGS MUST BE CLEARLY IDENTIFIED BY CLOUDING OR BY DIRECT NOTE ON THE SHOP DRAWING BY THE DETAILER PRIOR TO SUBMISSION TO THE ENGINEER.

24. ANY MEMBER SIZES SHOWN ON THE PLANS, AND CURRENTLY LISTED IN THE AISC MANUAL, WHICH ARE NOT CURRENTLY AVAILABLE MUST BE BROUGHT TO THE ARCHITECT'S AND STRUCTURAL ENGINEER'S ATTENTION PRIOR TO AWARD OF STEEL CONTRACT. NO CLAIM FOR ADDITIONAL COST WILL BE ACCEPTED AFTER THE AWARD, FOR MEMBER/BUILT UP MEMBER SUBSTITUTIONS FOR THESE SIZES.

25. FILLER BEAMS SHALL BE SPACED EQUALLY BETWEEN ESTABLISHED DIMENSIONS, UNLESS NOTED OTHERWISE.

26. ALL SUPPLEMENTAL STEEL ANGLES REQUIRED FOR ROOF UNITS AND ROOF OPENINGS OVER 12"x12" TO BE SUPPLIED BY STRUCTURAL STEEL FABRICATOR AND BE COORDINATED BY GENERAL CONTRACTOR WITH THE JOIST FABRICATOR, MECHANICAL DRAWINGS AND MECHANICAL EQUIPMENT SUPPLIER.

27. ALL STRUCTURAL STEEL BEAMS AND COLUMNS ADJACENT TO MASONRY SHALL HAVE ADJUSTABLE MASONRY ANCHORS AT 2'-0" O.C.

28. HOT DIP GALVANIZE PER ASTM A123 AFTER FABRICATION THE FOLLOWING STRUCTURAL STEEL MEMBERS:

A. SHELF ANGLES SUPPORTING MASONRY

B. LINTELS SUPPORTING SINGLE OR MULTIPLE WYTHE EXTERIOR MASONRY WALLS.

C. ITEMS IDENTIFIED ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. ALL STEEL PERMANENTLY EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED UNLESS SPECIFIED OTHERWISE ON THE ARCHITECTURAL DRAWINGS. FOR MEMBERS SHOWN TO BE GALVANIZED, ALL CONNECTION MATERIAL SHALL ALSO BE GALVANIZED.

29. CAMBER VALUES SHOWN ON THE PLANS FOR BEAMS AND GIRDERS SHALL BE THE AMOUNT OF CAMBER IN THE MEMBER FOLLOWING ERECTION. CONTRACTOR SHALL VERIFY THAT CAMBER INDICATED ON PLANS CORRESPONDS TO ACTUAL FIELD CONDITIONS PRIOR TO PLACEMENT OF SLAB. CONTRACTOR IS TO NOTE THAT THE STRUCTURAL STEEL BEAMS HAVE BEEN CAMBERED IN AN EFFORT TO LIMIT FLOOR LEVELING COMPOUND DUE TO THE DEFLECTION OF THE STRUCTURAL STEEL BEAMS AND GIRDERS. HOWEVER, THE AMOUNT OF ACTUAL CAMBER FOR EACH STRUCTURAL STEEL MEMBER MAY VARY DUE TO MILL OR SHOP TOLERANCE AND BEAMS WITH COMPUTED INITIAL DEFLECTIONS LESS THAN 3/4" ARE NOT CAMBERED AT ALL. THEREFORE, THE CONTRACTOR MAY NOT ASSUME THAT THE CAMBERS INDICATED ELIMINATE THE NEED FOR FLOOR LEVELING COMPOUND.

30. THE CONCRETE SLABS AND/OR STEEL DECKS ARE PART OF THE STABILITY SYSTEM FOR A COMPLETED STRUCTURE. THE CONTRACTOR

SHALL PROVIDE TEMPORARY ERECTION BRACING TO MAINTAIN STRUCTURAL STEEL IN PROPER POSITION UNTIL PERMANENTLY SECURED. REMOVE TEMPORARY BRACING AND THEIR CONNECTIONS ONLY AFTER ERECTION OF PERMANENT MEMBERS IS COMPLETE AND ALL CONCRETE SLABS HAVE BEEN PLACED AND CURED AND STEEL DECKS ARE PROPERLY FASTENED. A COMPLETED STRUCTURE HAS ITS BOUNDARIES DEFINED BY THE BUILDING EXTERIOR AND/OR INTERIOR EXPANSION JOINTS WHERE THEY EXIST BETWEEN BUILDING SEGMENTS.

| ISSUE  | DATE       |
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| PERMIT | 10/21/2025 |

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STRUCTURAL MODIFICATION  
SERVICE STATION BUILDING  
29000 LAKESHORE BLVD  
WILLOWICK, OH 44095

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| PROJECT NO.<br>1226    |
| SHEET NAME<br>NOTES II |
| SHEET NO.<br>S2        |

| ISSUE     |             | DATE       |
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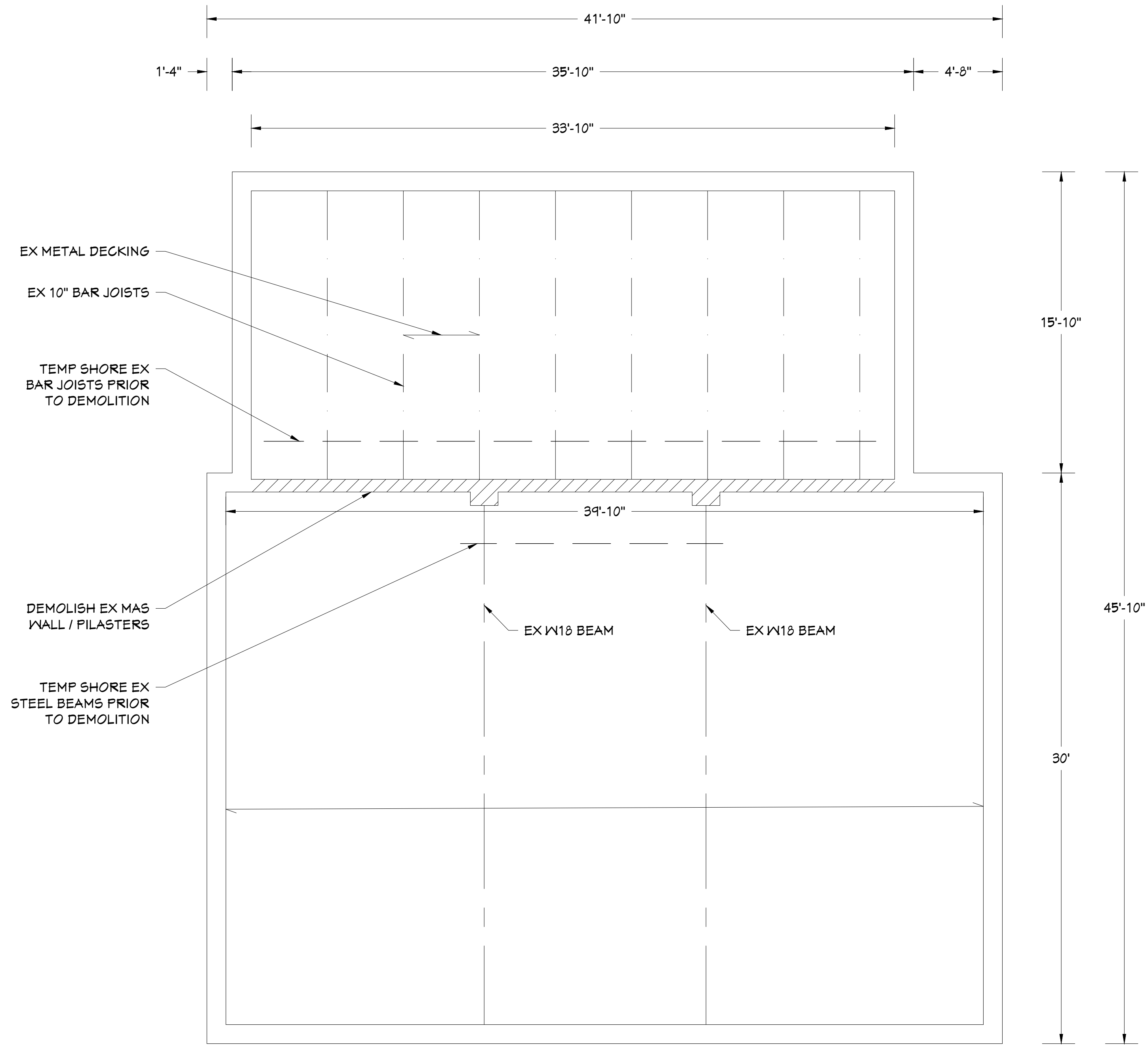
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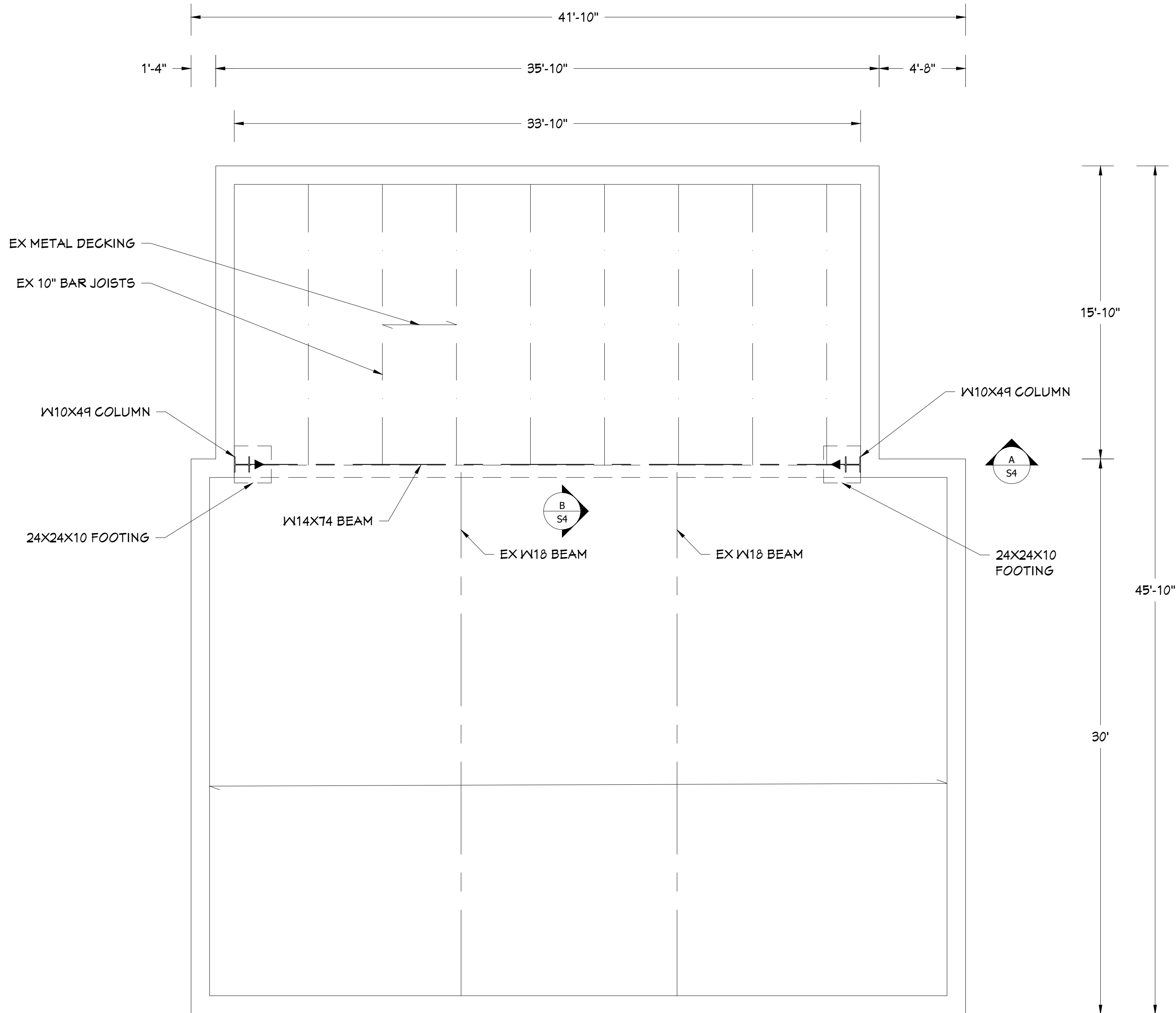
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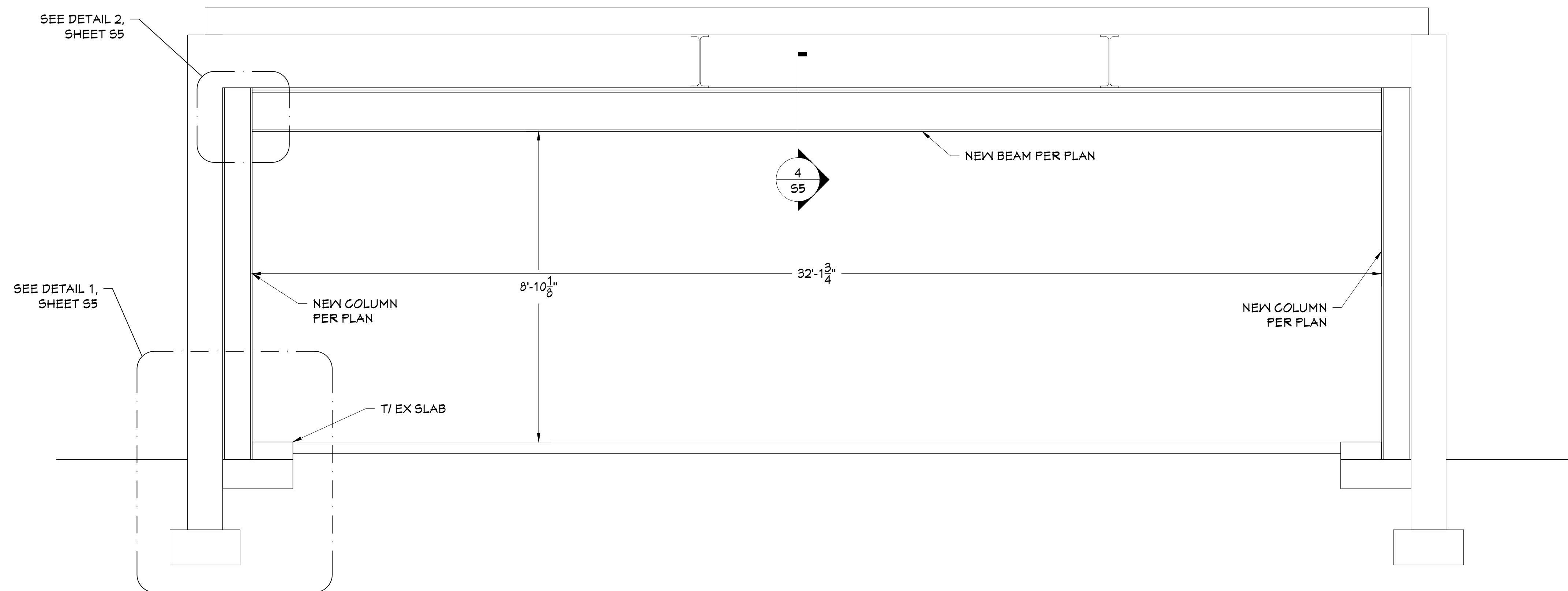
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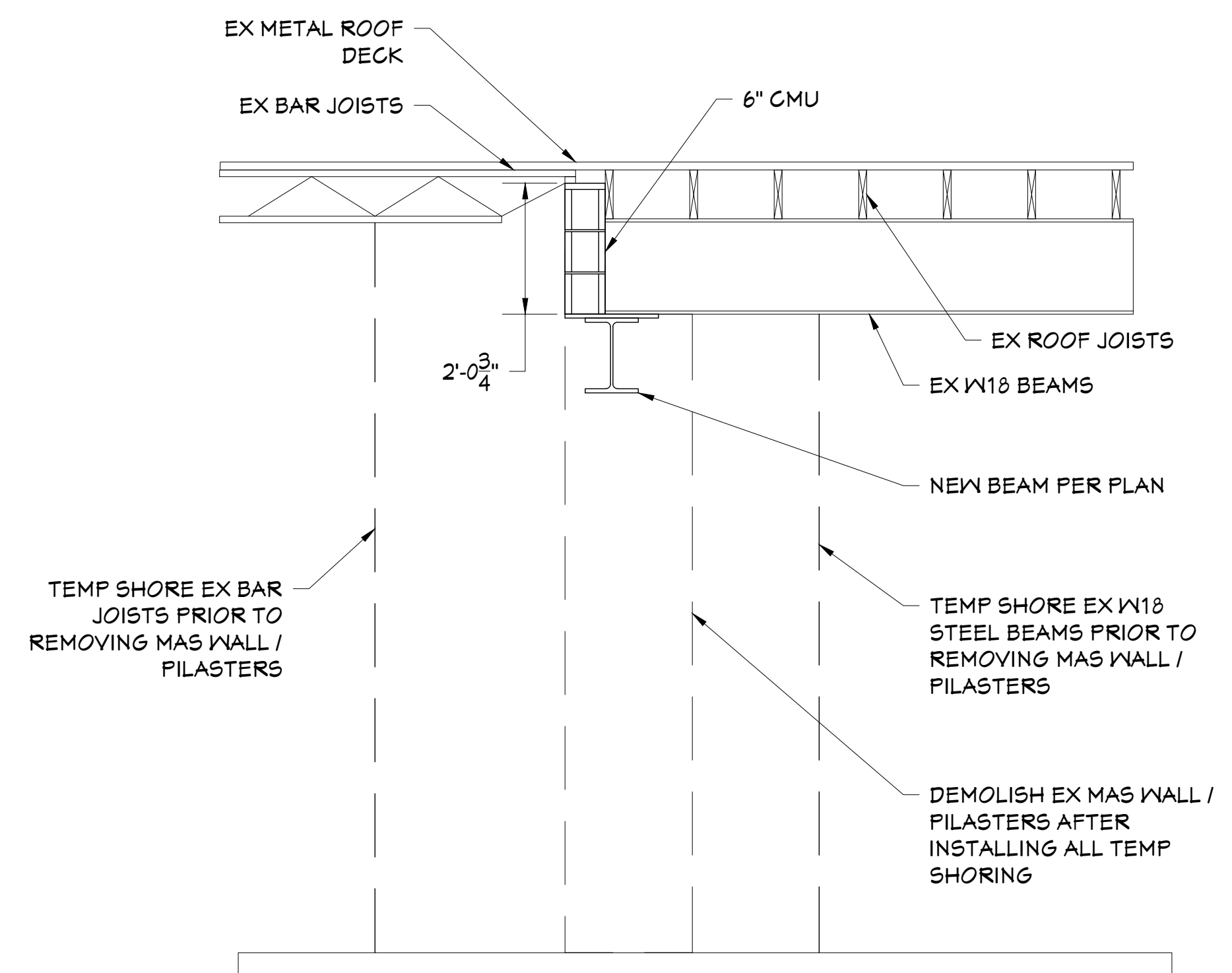
DEMOLITION PLAN  
Scale: 1/4" = 1'-0"



PROPOSED PLAN  
Scale: 1/4" = 1'-0"



SECTION  
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SECTION  
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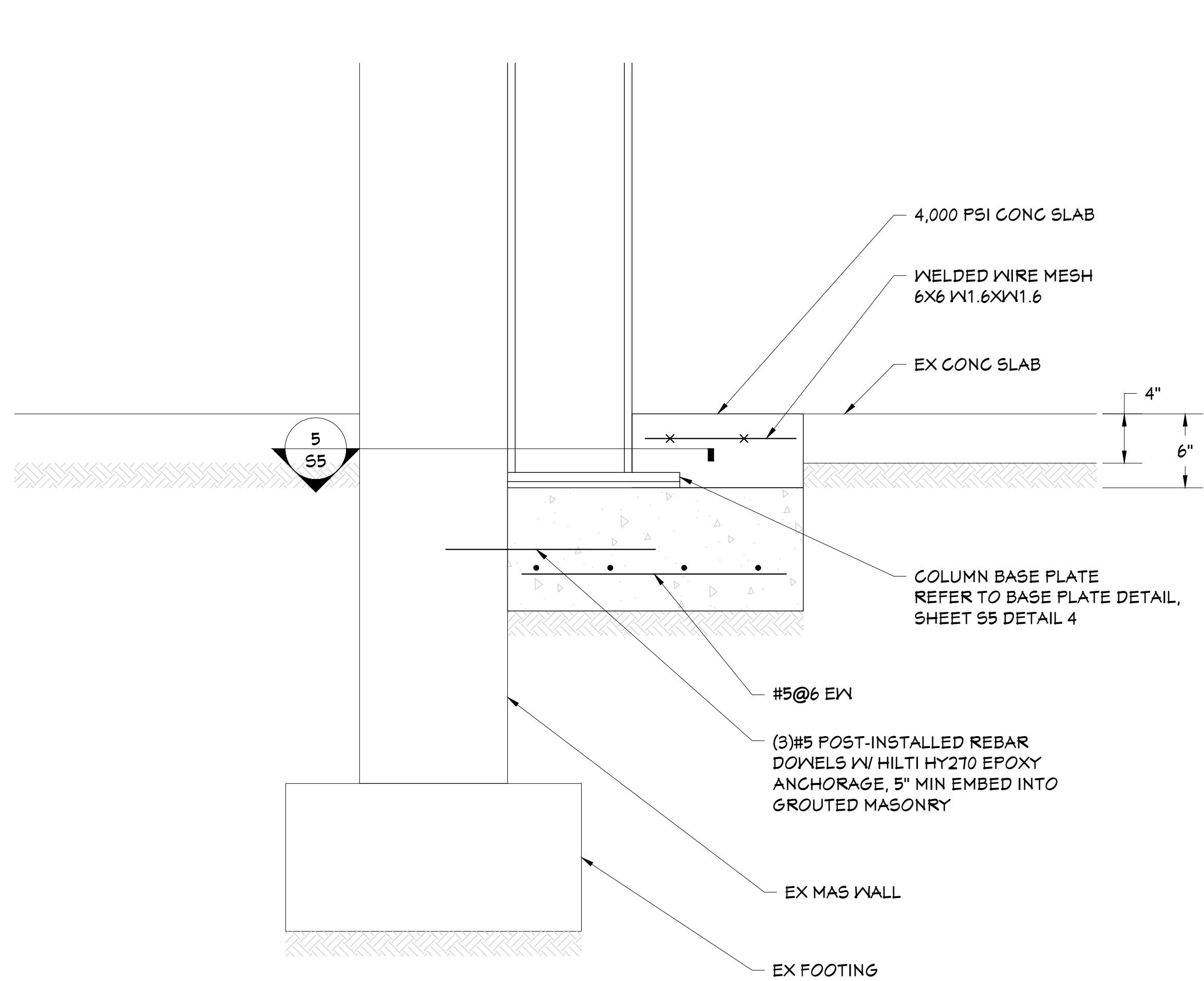
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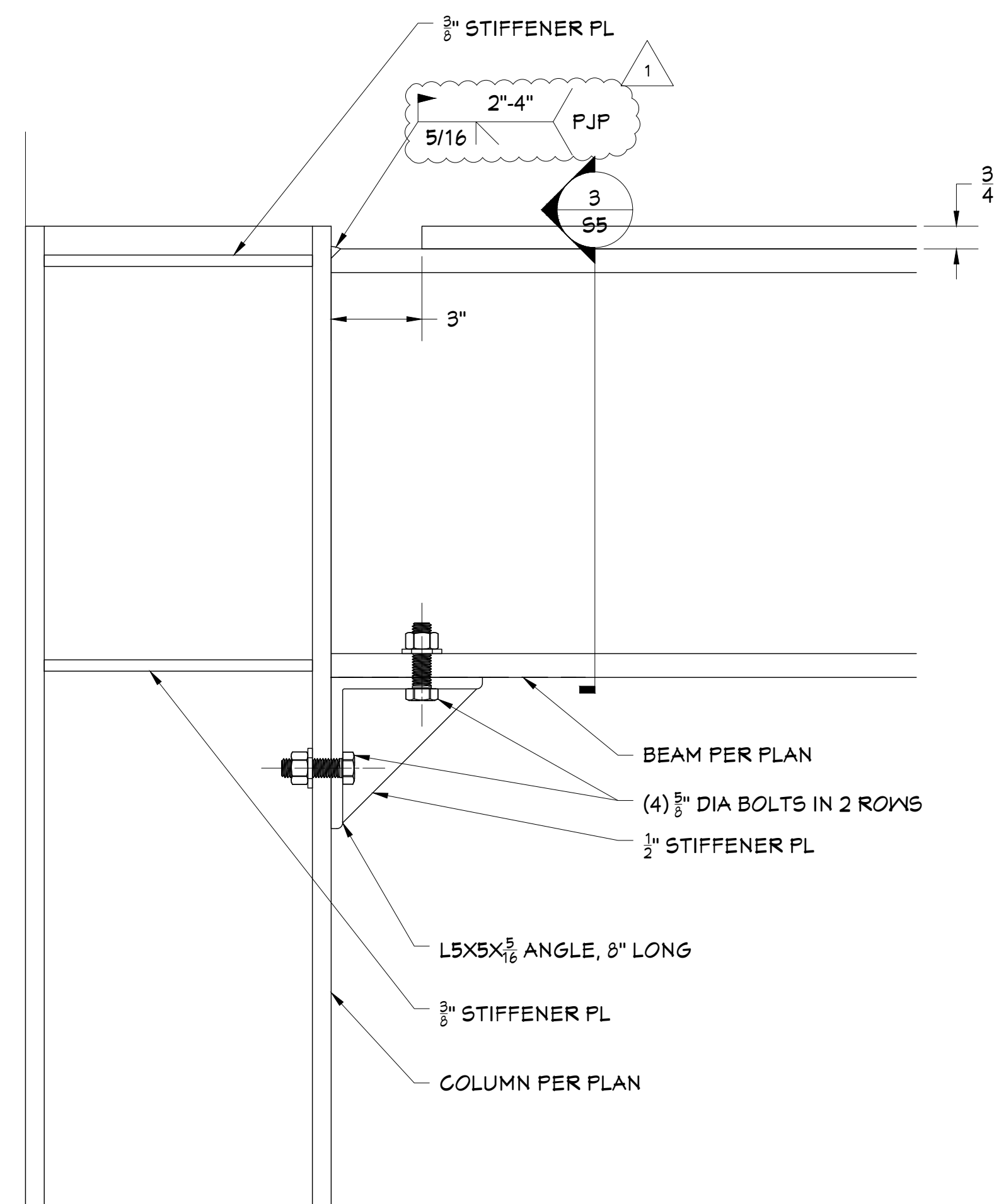
PROJECT NO.  
1226

SHEET NAME  
SECTIONS

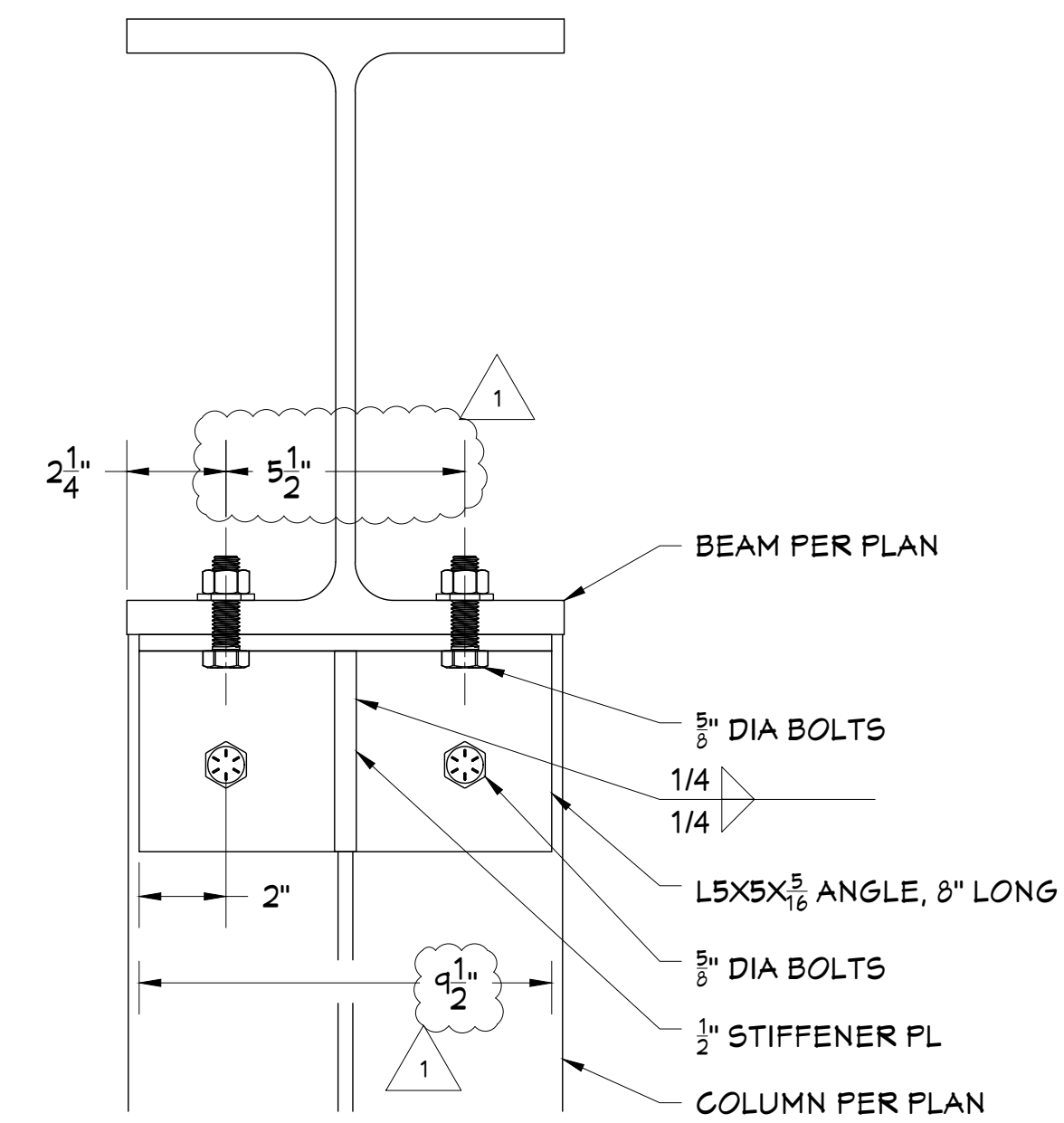
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S4



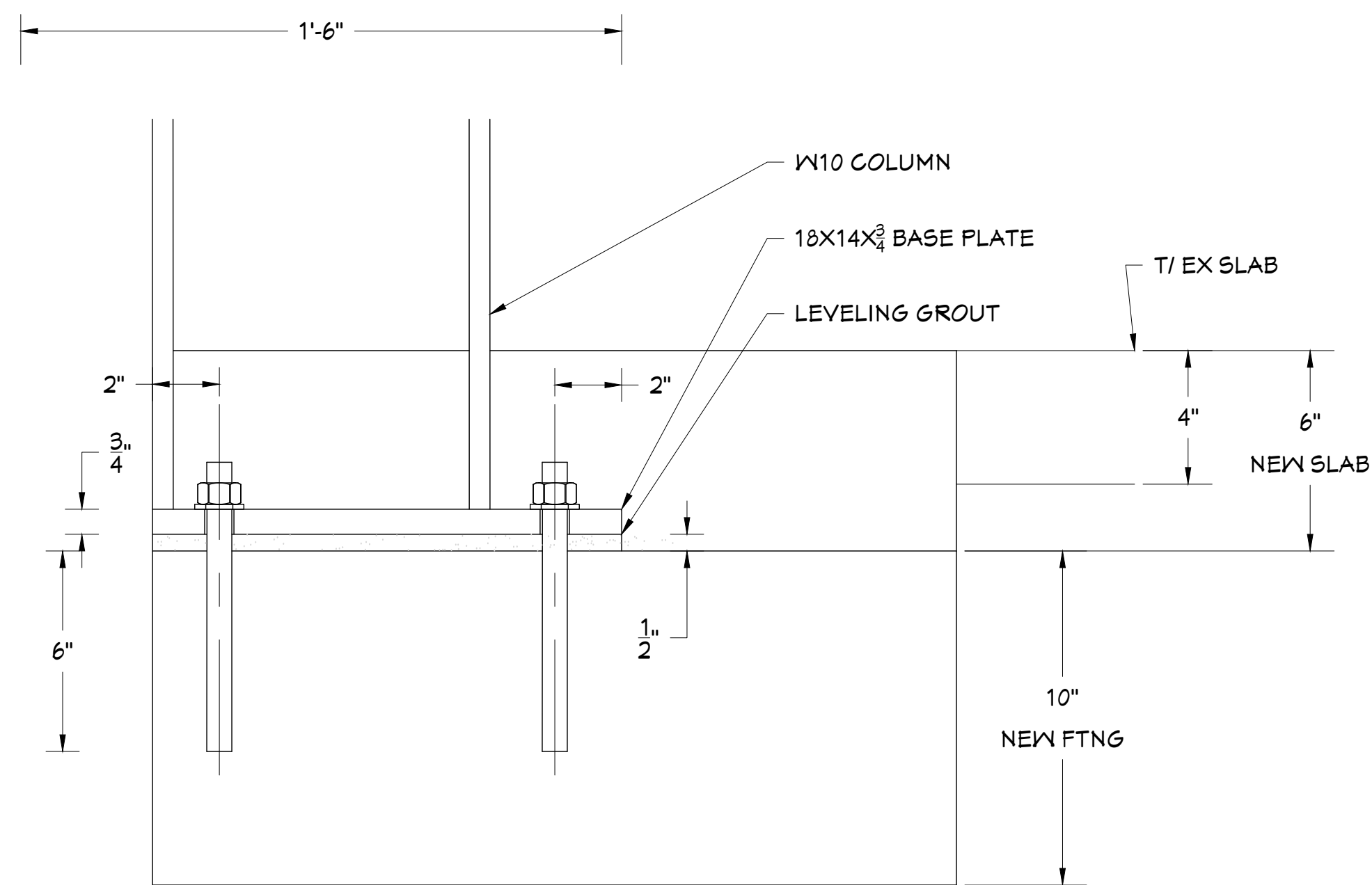
1 COLUMN BASE SECTION  
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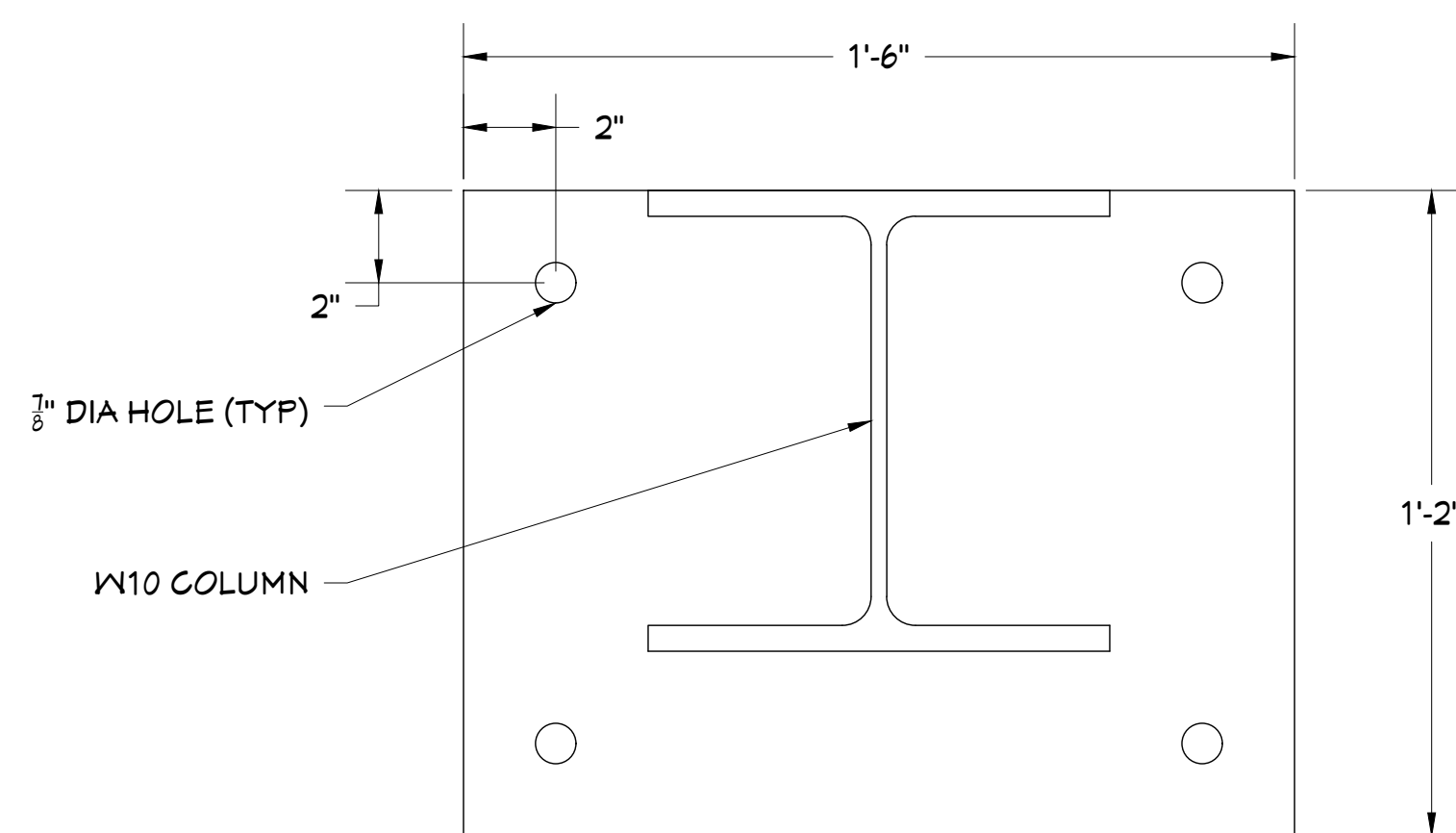
2 BEAM TO COLUMN DETAIL  
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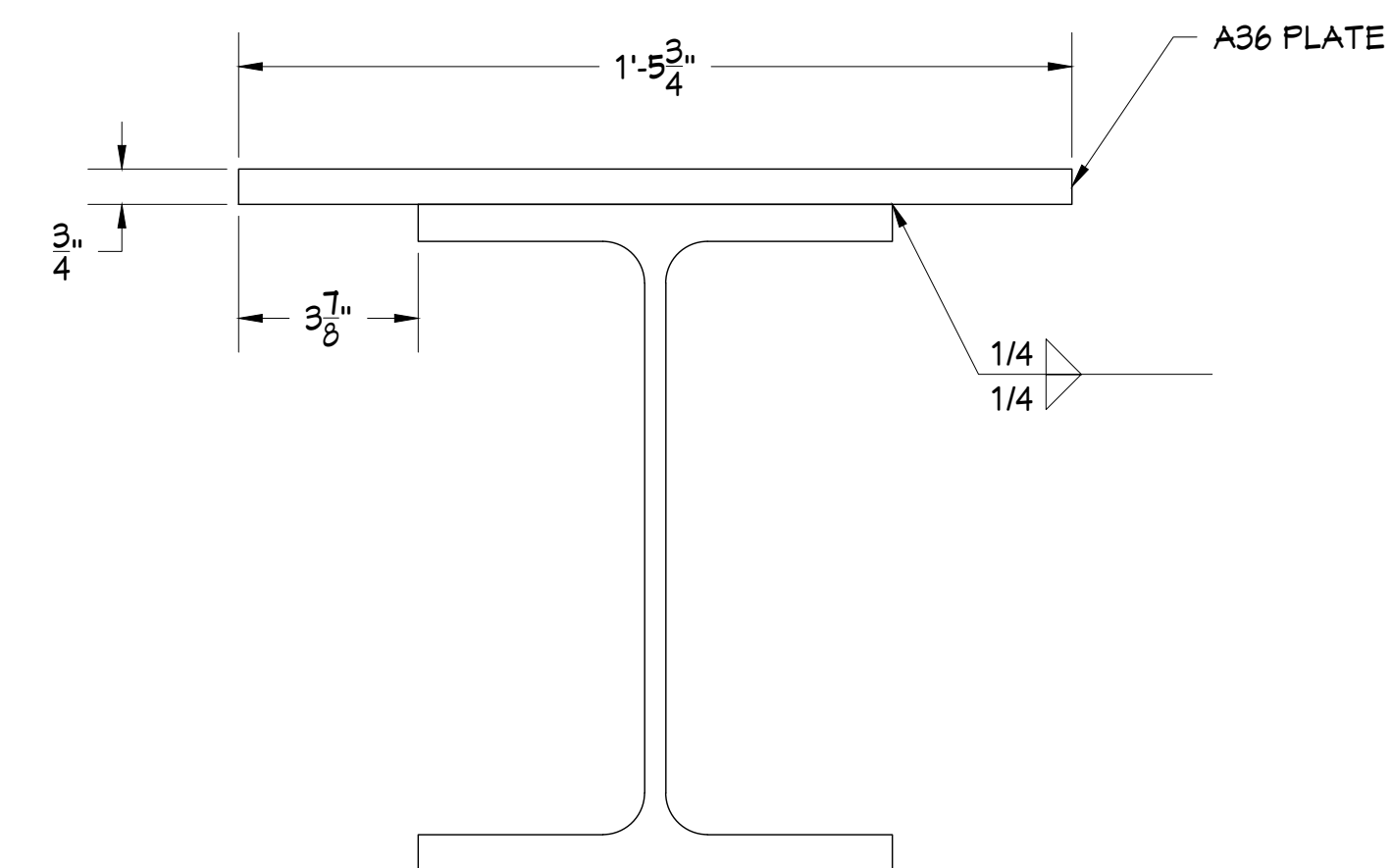
3 BEAM TO COLUMN DETAIL 2  
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4 COLUMN BASE DETAIL  
Scale: 3" = 1'-0"



5 COLUMN BASE PLATE DETAIL  
Scale: 3" = 1'-0"



6 BEAM DETAIL  
Scale: 3" = 1'-0"

ISSUE DATE  
PERMIT 10/21/2025

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1226

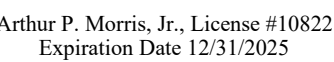
SHEET NAME  
SECTIONS & DETAILS

SHEET NO.  
**S5**





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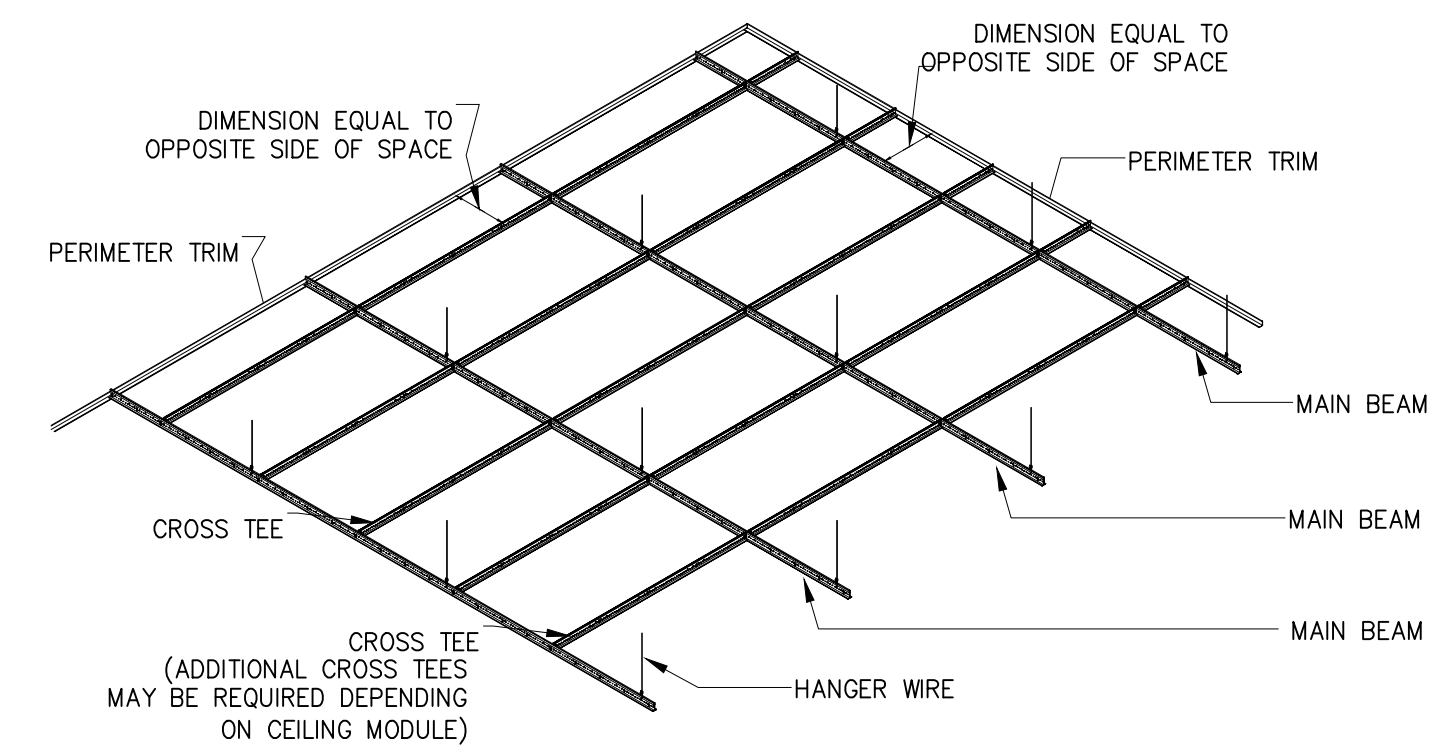
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VERIFY ALL  
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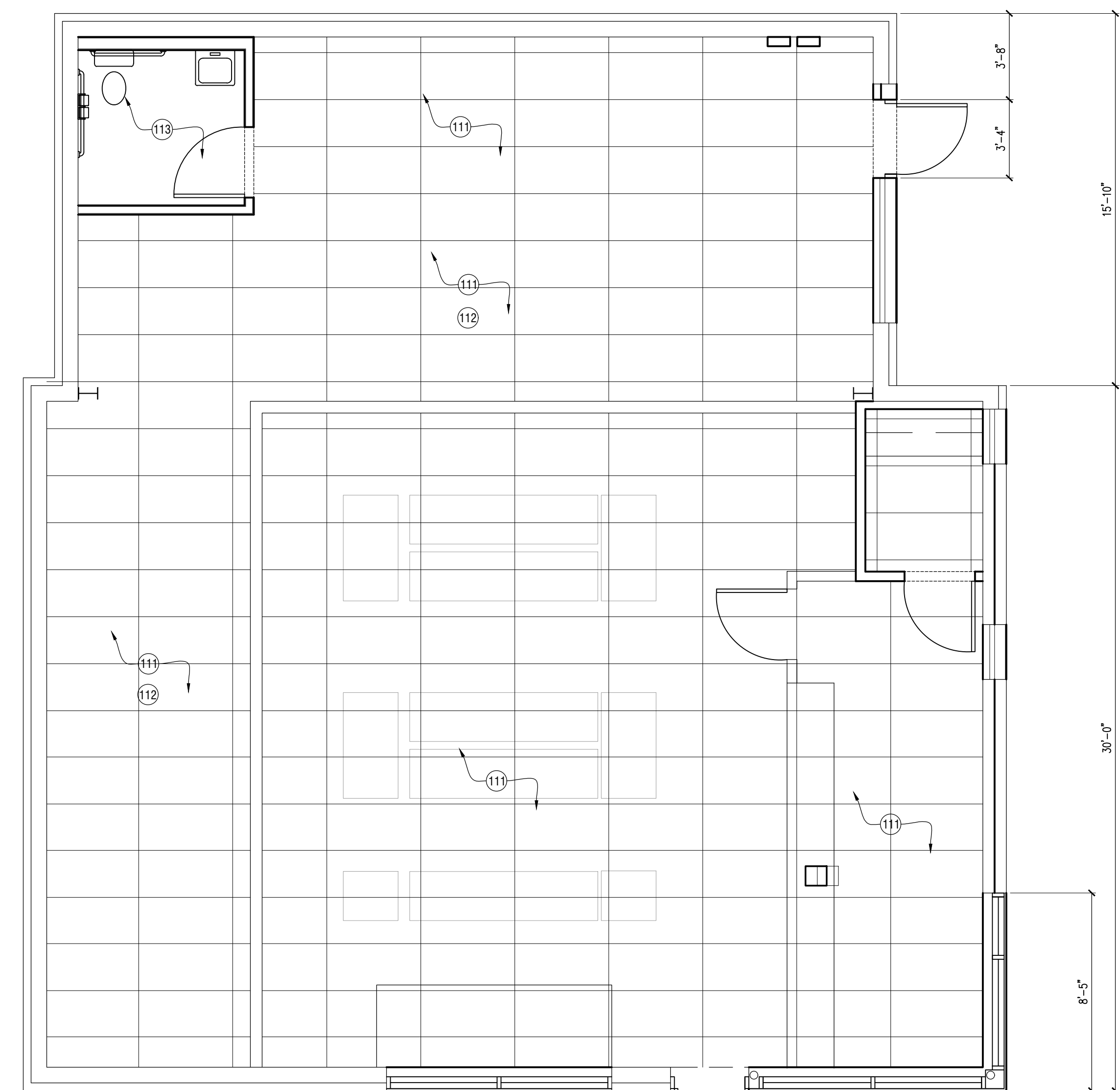
CEILING PLAN

# A110



TYPICAL SUSPENDED GRID FRAMING DETAIL

SCALE: NTS



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

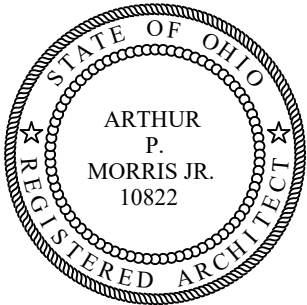




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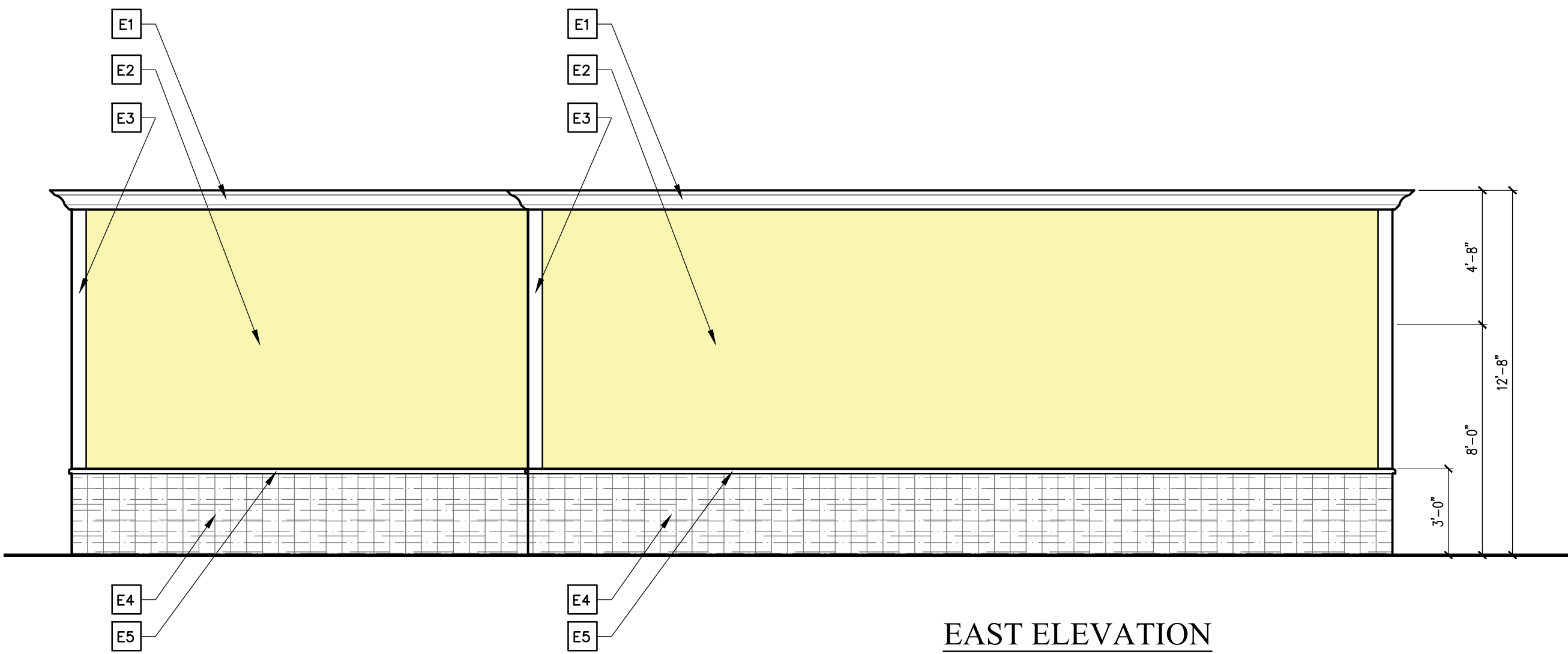
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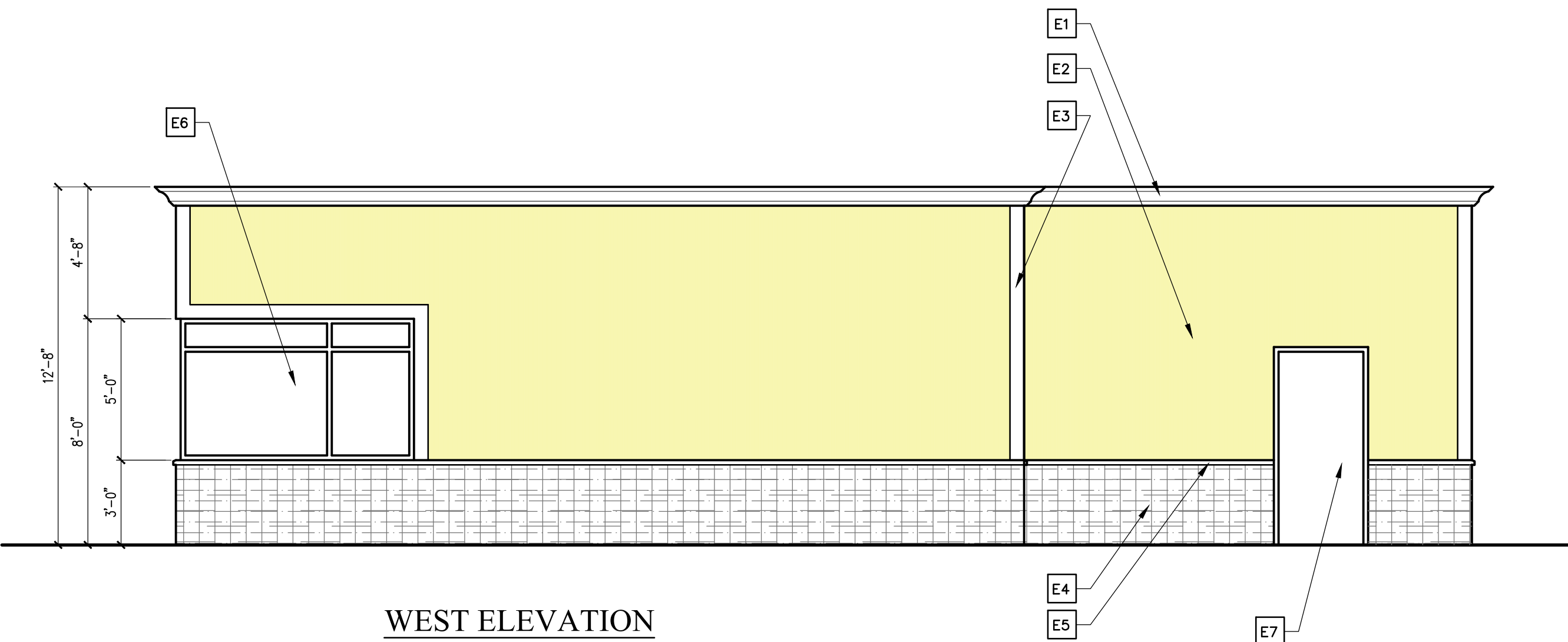
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EXTERIOR ELEVATION CODED NOTES

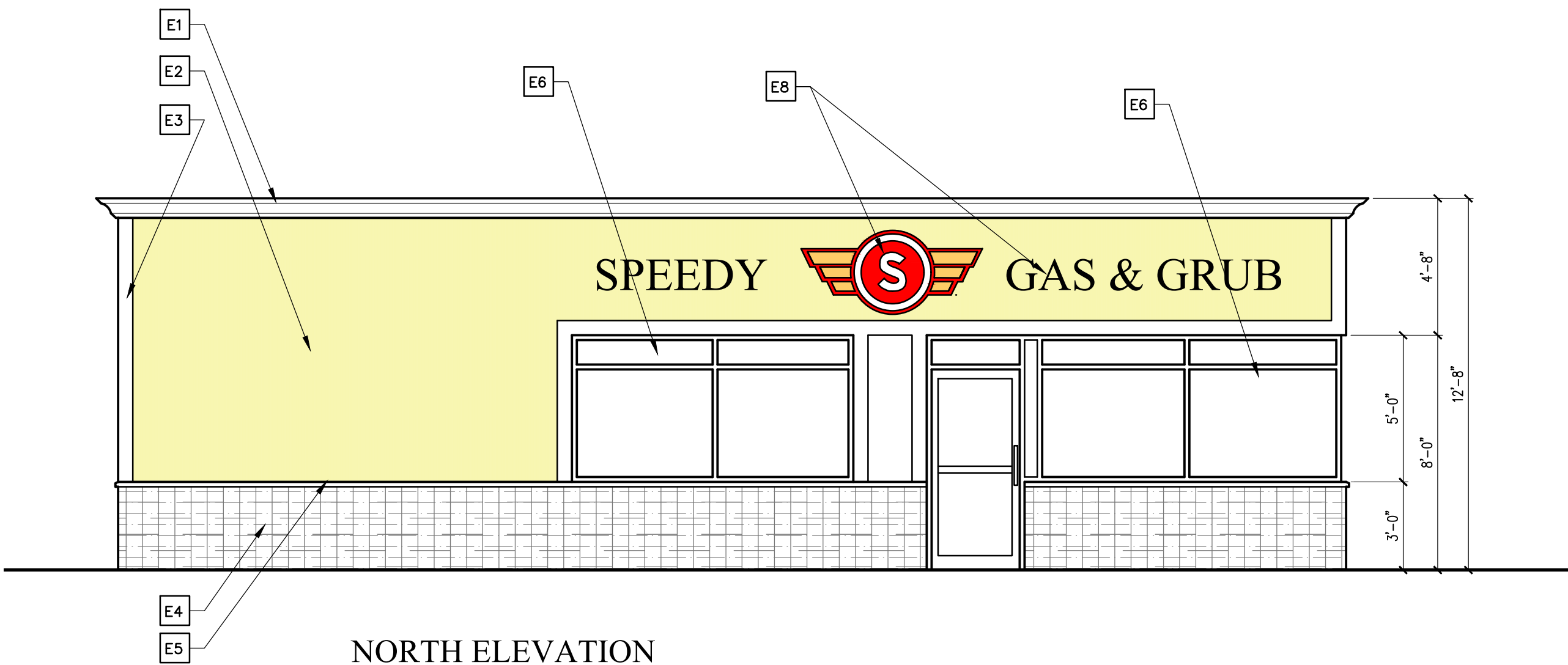
- E1 PAINTED FIBERGLASS TRIM MOULD
- E2 2" PRE-COLORED EIFS
- E3 2" EIFS CORNER TRIM [OWNER ALTERNATE FOR AZAK]
- E4 STONE VENEER
- E5 STONE VENEER-MATCHING SILL WITH 1" PROJECTION
- E6 ALUMINUM STOREFRONT WINDOWS/DOORS
- E7 INSULATED HOLLOW METAL DOOR AND FRAME
- E8 INTERNALLY ILLUMINATED SIGNAGE- BY OWNER
- E9 PREFINISHED METAL VENEER AND COPING
- E10 PAINTED CMU



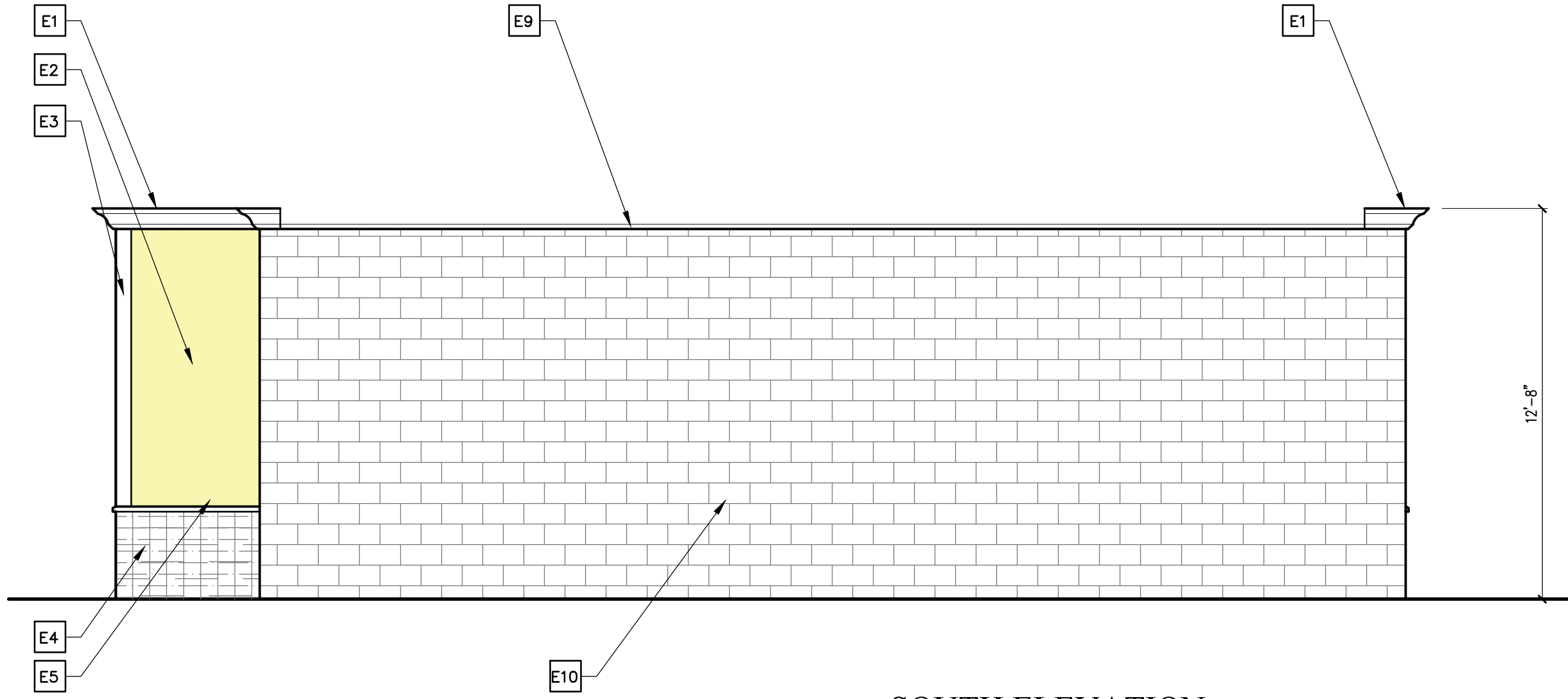
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WEST ELEVATION  
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NORTH ELEVATION  
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SOUTH ELEVATION  
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EXTERIOR ELEVATIONS  
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EXTERIOR ELEVATIONS

A400