

CLINTON DESIGN ARCHITECTS

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NEW X-FIT BUILDING

10 OCEANANA WALL  
NORWOOD MA

Drawn By	Author
Checked By	Checker
Project Issue	9/23/15
Revisions	REV 1 6/25/15



FLOOR PLAN  
Scale: As indicated  
A-1

### PLAN SYMBOLS

TOILET

2X2 RECESSED LIGHTING IN 5/8" ACOUSTIC TILE CEILING

2X4 RECESSED LIGHTING IN 5/8" ACOUSTIC TILE CEILING

INSTALL NEW DOOR

3 5/8" METAL STUDS @ 16" O.C. W/ 5/8" GWB TYPE X EA. SIDE U.L. NO. U405 TYP.

8" MASONRY WALL INSULATED

### EXIT & EMERGENCY SYMBOLS

EXIT SIGN WITH DIRECTION SIGN

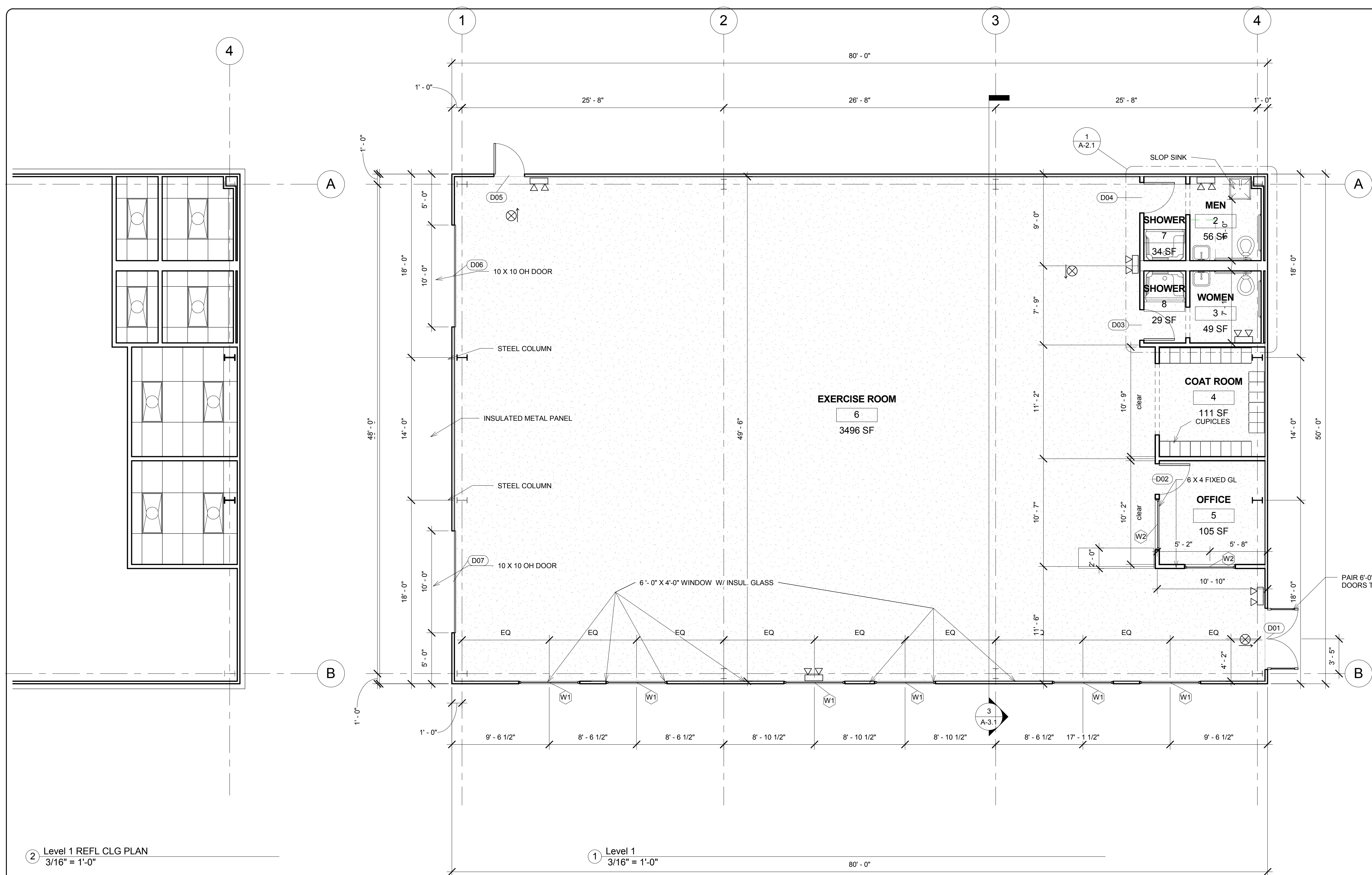
EMERGENCY LIGHT

PLAN SYMBOLS  
3/16" = 1'-0"

GROSS BUILDING AREA			
Area Type	Area	Level	Comments
Gross Building Area	4000 SF	Level 1	
Grand total: 1	4000 SF		

qa-Door Quantities						
Mark	Door Description	Count	Type	Width	Height	Comments
D01	Double-Glass 1	1	72" x 84"	6' - 0"	7' - 0"	
D02	Single-Flush	1	36" x 84"	3' - 0"	7' - 0"	
D03	Single-Flush	1	36" x 84"	3' - 0"	7' - 0"	
D04	Single-Flush	1	36" x 84"	3' - 0"	7' - 0"	
D05	Single-Flush	1	36" x 84"	3' - 0"	7' - 0"	
D06	Overhead-Sectional	1	10 X 10	10' - 0"	10' - 0"	
D07	Overhead-Sectional	1	10 X 10	10' - 0"	10' - 0"	
Grand total: 7		7				

qa-Window Quantities								
Description	Mark	Count	Window Description	Type	Width	Height	Head Height	Comments
W1	5	1	Fixed	72" x 48"	6' - 0"	4' - 0"	7' - 0"	INSUL GLASS
W1	6	1	Fixed	72" x 48"	6' - 0"	4' - 0"	7' - 0"	INSUL GLASS
W1	7	1	Fixed	72" x 48"	6' - 0"	4' - 0"	7' - 0"	INSUL GLASS
W1	8	1	Fixed	72" x 48"	6' - 0"	4' - 0"	7' - 0"	INSUL GLASS
W1	9	1	Fixed	72" x 48"	6' - 0"	4' - 0"	7' - 0"	INSUL GLASS
W1	10	1	Fixed	72" x 48"	6' - 0"	4' - 0"	7' - 0"	INSUL GLASS
W2	12	1	Fixed	60" x 48"	5' - 0"	4' - 0"	7' - 0"	FIXED GLASS
W2	13	1	Fixed	60" x 48"	5' - 0"	4' - 0"	7' - 0"	FIXED GLASS
Grand total		8						



2 Level 1 REFL CLG PLAN  
3/16" = 1'-0"

1 Level 1  
3/16" = 1'-0"

### 780 CMR 8TH EDITION

OCCUPANCY ; A-3 IBC 303.1 GYMNASIUMS (WITHOUT SPECTATOR SEATING)  
CONSTRUCTION TYPE; IIB

IBC TABLE 503 ALLOWABLE AREA & HEIGHT FOR USE GROUP A-3 ;  
9,500 SF & 2 STORY

TOTAL AREA PROVIDED = 4,000 SF TOTAL HEIGHT = 1 STORY 20 FEET

IBC 1004.1 DESIGN OCCUPANT LOAD 50 SF PER OCCUPANT  
MAX ALLOWED OCCUPANTS 80 occupants

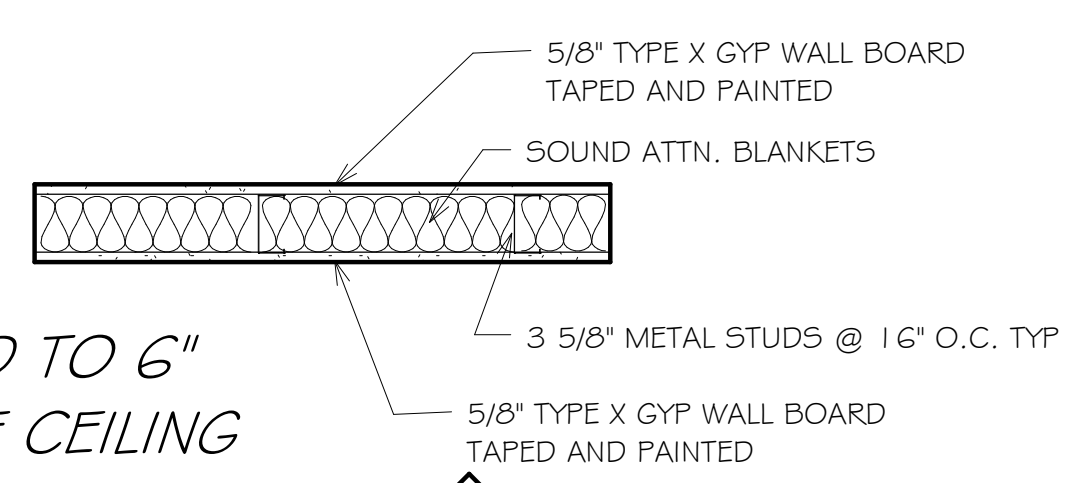
SPRINKLER SYSTEM NOT REQUIRED  
AUTOMATIC SPRINKLER SYSTEM IBC 903.2.1 GROUP A-3  
(IF AREA EXCEED 12,000 SF SPRINKLER SYSTEM REQUIRED)

TRAVEL DISTANCE ALLOWABLE IBC TABLE 1016-1 = 200 FEET

TRAVEL DISTANCE MAXIMUM ACTUAL = 82 FEET

MINIMUM CLEAR EGRESS WIDTH IS 44" OR 3'-8"  
MIN. DOOR WIDTH IS 36" OR 3'-0"

CODE ANALYSIS  
1/4" = 1'-0"



EXTEND TO 6"  
ABOVE CEILING

INTERIOR WALL TYPE

WALL TYPE  
1" = 1'-0"



**GENERAL NOTES**

- G1. ALL WORK SHALL CONFORM TO THE MASSACHUSETTS STATE BUILDING CODE, MOST CURRENT EDITION.
- G2. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO CHECK AND COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS. IN CASE OF CONFLICT, THE ARCHITECT SHALL BE NOTIFIED AND SHALL RESOLVE THE CONFLICT.
- G3. CONTRACTORS SHALL EXAMINE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR VERIFICATION OF LOCATION AND DIMENSIONS OF CHASES, INSERTS, OPENINGS, SLEEVES, WASHERS, DRIPS, REVEALS, DEPRESSIONS, AND OTHER PROJECT REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS.
- G4. SHOP DRAWINGS- PRIOR TO ANY FABRICATION, ALL SHOP DRAWINGS FOR REINFORCING STEEL, STRUCTURAL STEEL, METAL DECKING AND WOOD FRAMING SHALL BE REVIEWED BY THE GENERAL CONTRACTOR BEFORE SUBMITTAL. ERECTION OF STEEL SHALL BE MADE FROM APPROVED SHOP DRAWINGS ONLY. A RECORD OF APPROVED SHOP DRAWINGS SHALL BE KEPT IN THE FIELD BY THE GENERAL CONTRACTOR.
- G5. UNLESS OTHERWISE NOTED, DETAILS SHOWN ON THE DRAWINGS, ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.

**FOUNDATIONS AND BACKFILL**

- F1. ALL FOUNDATIONS SHALL BEAR ON UNDISTURBED NATURAL SOIL OR ON 95% COMPACTED STRUCTURAL FILL, HAVING A MINIMUM CAPACITY OF 4,000 PSF. CONTRACTOR TO VERIFY BEARING CAPACITY PRIOR TO PLACING FOOTINGS.
- F2. NO FOOTINGS SHALL BE PLACED IN WATER, NOR UPON FROZEN GROUND. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND PROTECTING EXCAVATIONS FROM DAMAGE AS NECESSARY DURING CONSTRUCTION.
- F3. ALL EXISTING FOUNDATION WALLS AND RETAINING WALLS SHALL BE BRACED DURING BACKFILL OPERATIONS AND SHALL REMAIN BRACED UNTIL PERMANENT RESTRAINTS HAVE BEEN INSTALLED.
- F4. FOUNDATIONS AT THE EXTERIOR SHALL BE SET AT OR BELOW THE FROST DEPTH (4'-0" BELOW GRADE).

**CONCRETE**

- C1. CONCRETE WORK SHALL CONFORM TO BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-89) AND SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301-84).
- C2. CONCRETE SHALL BE CONTROLLED CONCRETE PROPORTIONED, MIXED AND PLACED UNDER THE SUPERVISION OF AN APPROVED CONCRETE TESTING AGENCY.
- C3. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS. (COORDINATE WITH SPECIFICATIONS)
  - A) SPREAD FOOTING, AND FOUNDATION WALLS NOT EXPOSED TO THE WEATHER. 3,000 PSI (NORMAL WEIGHT)
  - B) CONCRETE SLABS ON GRADE AND ON STEEL DECK. 3,000 PSI (NORMAL WEIGHT)
  - C) EXTERIOR CONCRETE EXPOSED TO WEATHER. 4,000 PSI (NORMAL WEIGHT)
  - D) ALL OTHER CONCRETE. 3,000 PSI (NORMAL WEIGHT)
 MAXIMUM SLUMP SHALL BE 3" FOR SLABS AND 4" FOR OTHER WORK. STONE AGGREGATE SHALL MAXIMUM 3/4" FOR ALL CONCRETE.
- C4. CONCRETE TO BE EXPOSED TO THE WEATHER IN THE FINISHED PROJECT SHALL BE AIR-ENTRAINED; 5% AIR CONTENT.

**REINFORCEMENT**

- R1. DETAILING FABRICATIONS AND ERECTION OF REINFORCEMENT, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE LATEST EDITIONS OF ACI "BUILDINGS CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318)" AND ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI-315)."
- R2. STEEL REINFORCEMENT SHALL CONFORM TO ASTM 615 GRADE 60 (YIELD STRESS = 60,000 PSI)
- R3. WELDED WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ASTM A185, Fy=60 ksi. ONLY FLAT SHEETS ARE PERMITTED. PROVIDE MINIMUM WWF 6x6-W1.4xW1.4 FOR ALL CONCRETE SLABS UNLESS OTHERWISE NOTED.
- R4. PROVIDE AND SCHEDULE ON SHOP DRAWINGS, ALL NECESSARY ACCESSORIES TO HOLD REINFORCEMENT SECURELY IN POSITION: MINIMUM REQUIREMENTS SHALL BE: HIGH CHAIRS, 3'-0" ON CENTER; #5 SUPPORT BAR ON HIGH CHAIRS; SLAB BOLSTERS, 3'-0" ON CENTER.

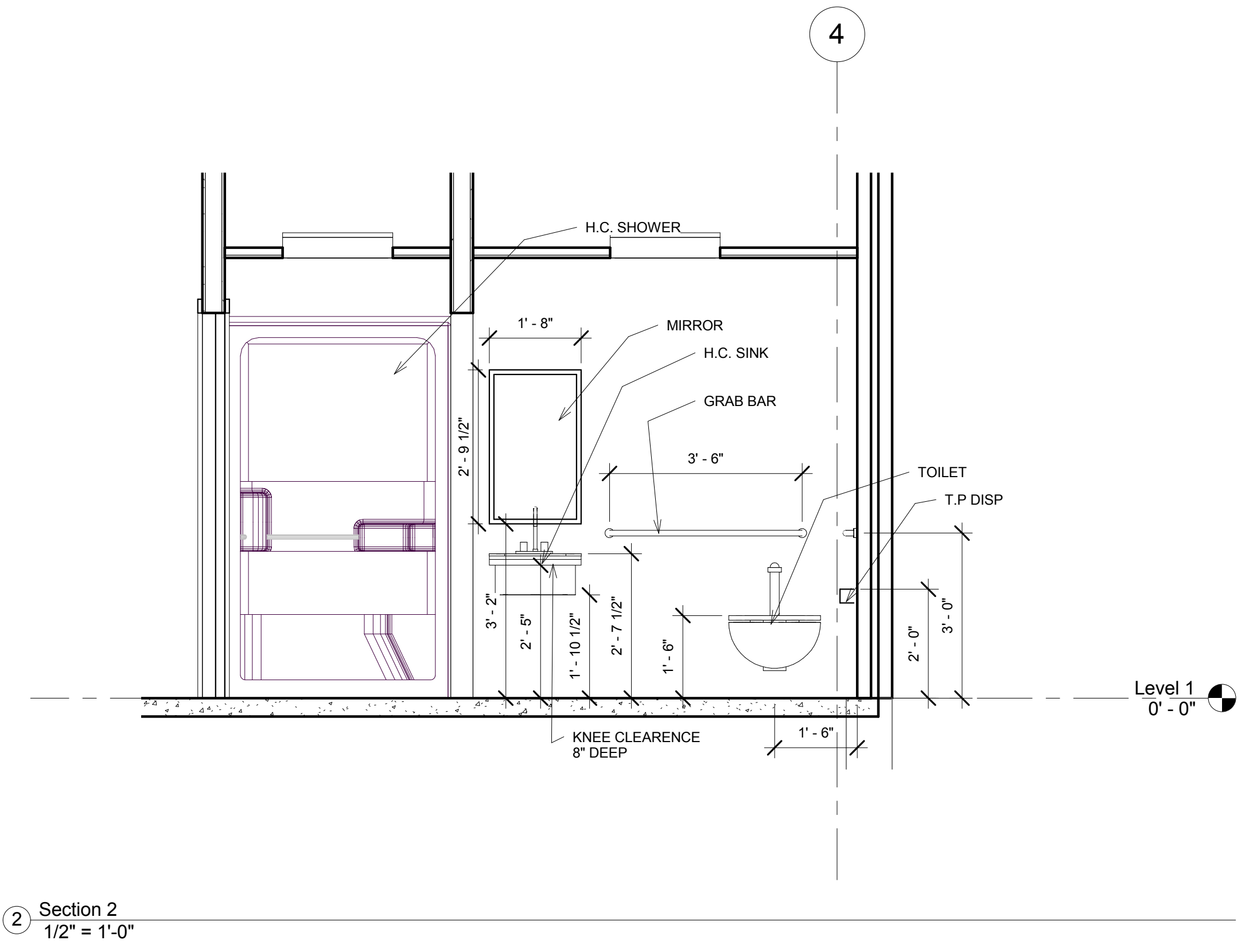
**GENERAL NOTES**  
1/4" = 1'-0"

**STRUCTURAL STEEL**

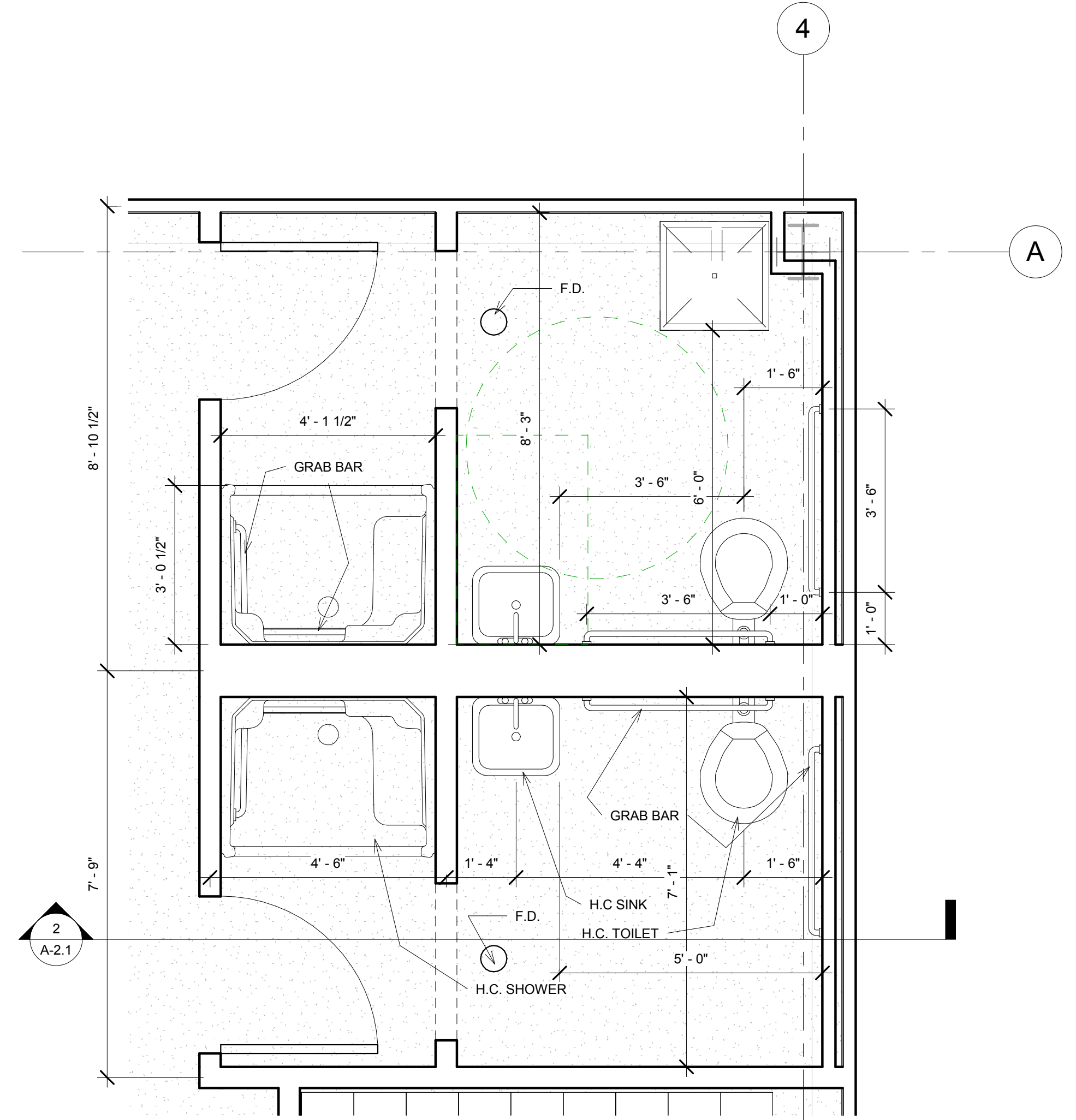
- S1. STRUCTURAL STEEL WORK SHALL CONFORM TO "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS - ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN" (AISC 1989); "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES (AISC 1986); AND STRUCTURAL WELDING CODE- STEEL (AWS D1.1), LATEST EDITION.
- S2. STRUCTURAL STEEL SHALL BE NEW STEEL CONFORMING TO ASTM A36(Fy=36ksi) FOR ALL ROLLED SHAPES, PLATES AND BARS. STEEL TUBES SHALL BE ASTM A500 GRADE B (Fy 46ksi).
- S3. STRUCTURAL STEEL SHALL BE DETAILED AND, WHERE REQUIRED, DESIGNED IN ACCORDANCE WITH THE AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS AND THE SHOP DRAFTING MANUAL, CURRENT EDITIONS.
- S4. ALL SHOP AND FIELD CONNECTIONS SHALL BE BY WELDING OR HIGH STRENGTH BOLTS, AND SHALL BE AT LEAST ABLE TO DEVELOP THE FULL AXIAL OR FLEXURAL LOADING OF THE MEMBER TO BE CONNECTED UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
- S5. WELDING SHALL BE DONE BY APPROVED CERTIFIED WELDERS AND SHALL CONFORM TO THE AMERICAN WELDING SOCIETY CODE: SEE SPECIFICATIONS. ALL FILLET WELDS SHALL BE MADE WITH A RETURN LEG ON THE WELD END WHERE POSSIBLE THE MINIMUM SIZE OF FILLET WELDS SHALL BE DETERMINED IN ACCORDANCE WITH PARAGRAPH J2.2B OF THE AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS AND SHALL BE A MINIMUM OF 1/4". PROVIDE BACKING BARS AND OR SPEACES AS REQUIRED FOR SATISFACTORY WELDING.
- S6. ELECTRODES FOR ALL FIELD AND SHOP WELDING SHALL CONFORM TO A-233(CLASS 70).
- S7. ANCHOR BOLTS, LEVELING PLATES OR BEARING PLATES SHALL BE LOCATED AND BUILT INTO CONNECTION WORK, PRESET BY TEMPLATES OR SIMILAR METHODS. PLATES SHALL BE SET IN FULL BEDS OF NON-SHRINK NON-METALLIC GROUT OF MINIMUM 5,000 PSI STRENGTH.

**ROUGH CARPENTRY**

- RC1. FRAMING LUMBER SHALL COMPLY WITH PS20 STANDARDS, PLYWOOD SHALL COMPLY WITH PS1-74 STANDARDS.
- RC2. LUMBER FOR JOISTS AND RAFTERS SHALL BE SURFACED DRY (19% MOISTURE CONTENT) HEM-FIR NO. 1 OR SOUTHERN YELLOW PINE NO. 1 WITH Fb OF 1200 PSI AND E OF 1400 KSI. STUDS SHALL BE HEM-FIR KILN DRIED NO. 2 WITH FC OF 550 PSI. FOR TRUSSES USE HEM-FIR SELECT WITH Fb OF 1200 PSI AND E OF 1500 KSI.
- RC3. PLYWOOD SHALL BE 3/4" T&G EXTERIOR GRADE, EXTERIOR GLUE, PANEL INDEX 36/16 FOR FLOORS AND ROOF AND 5/8" C-D EXTERIOR GLUE FOR WALLS.
- RC4. METAL CONNECTORS SHALL BE GALVANIZED STEEL BY SIMPSON STRONG TIE CO. (OR EQ) PROVIDE JOIST HANGERS, BEAM HANGERS, POST CAPS AND BASES FOR ALL JOINING MEMBERS WITH CONNECTOR SIZES APPROPRIATE FOR THE JOINING MEMBERS.
- RC5. LAMINATED VENEER LUMBER (LVL) SHALL BE "MICROLAM" AS MANUFACTURED BY TRUS-JOIST CO. OR SIMILAR WITH A MINIMUM BENDING STRESS OF 2900 PSI AND E OF 1900 KSI.
- RC6. "TJI" FLOOR JOIST ARE MANUFACTURED BY TRUS-JOIST CO. OR SIMILAR WITH LVL CHORDS AND OSB WEBS.
- RC7. ROOF TRUSSES SHALL BE DESIGNED AND SHOP DRAWINGS STAMPED BY A LICENSED PROFESSIONAL ENGINEER IN THE COMMONWEALTH OF MASSACHUSETTS. SEE DRAWINGS FOR DESIGN CRITERIA. ROOF TRUSS SUPPLIER SHALL PROVIDE A COMPLETE ENGINEERED ROOF SYSTEM. ADDITIONAL RAFTERS, BEAMS, TRUSSES, GIRDERS, OR OTHER MEMBERS NOT SHOWN ON THE STRUCTURAL DRAWINGS BUT REQUIRED FOR A COMPLETE SYSTEM, SHALL BE PROVIDED AS NEEDED AS PART OF THE WORK. REFER TO ARCHITECTURAL DRAWINGS FOR ALL ROOF SHAPES, GEOMETRY AND DIMENSIONS. PROVIDE ALL OVER FRAMING, BLOCKING, SHIMMING, CRICKETS, ET. AS REQUIRED. PROVIDE CEILING FRAMING WHERE REQUIRED. DESIGN TRUSSES TO SUPPORT MECHANICAL UNIT WEIGHTS.



2 Section 2  
1/2" = 1'-0"

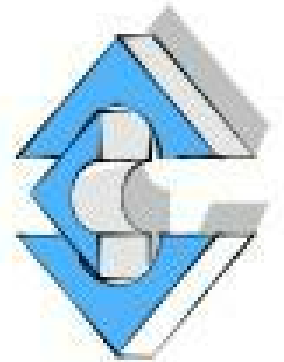


NEW X-FIT BUILDING  
10 OCEANANA WALL  
NORWOOD MA

Drawn By	Author
Checked By	Checker
Project Issue	9/29/15
Revisions	



DETAILS
Scale: As indicated
A-2.1

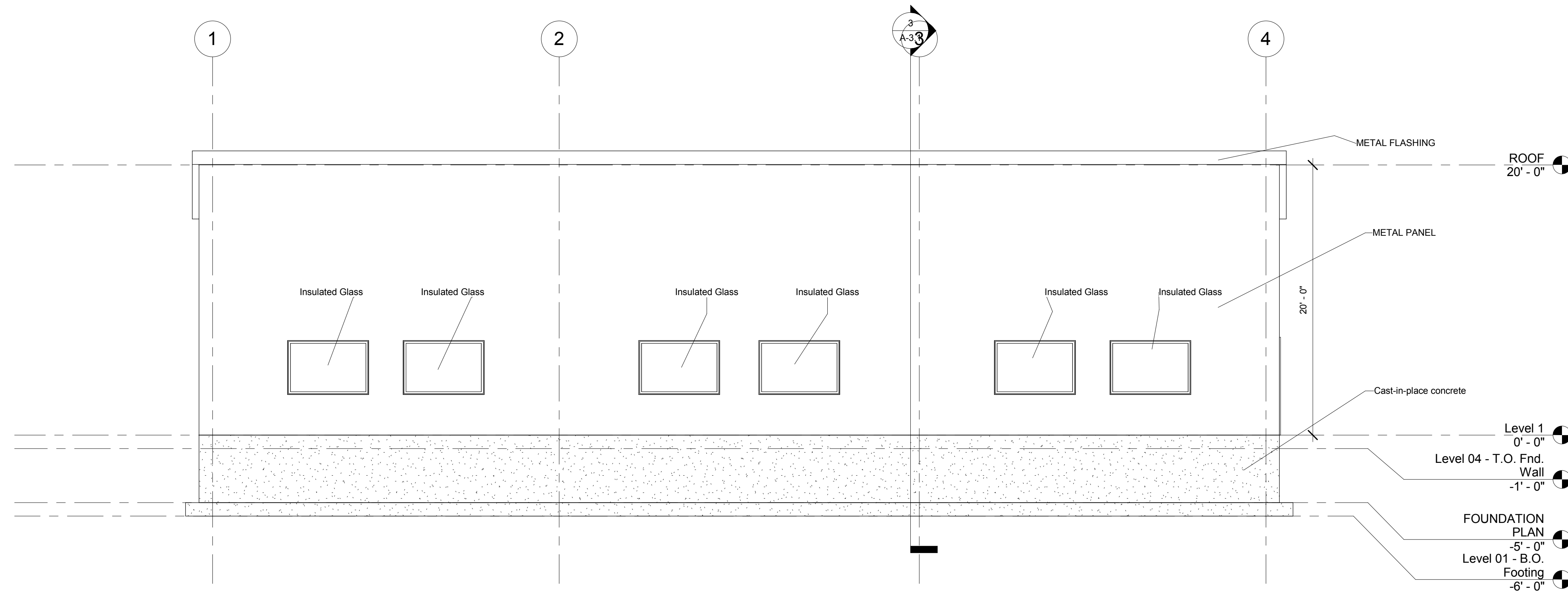


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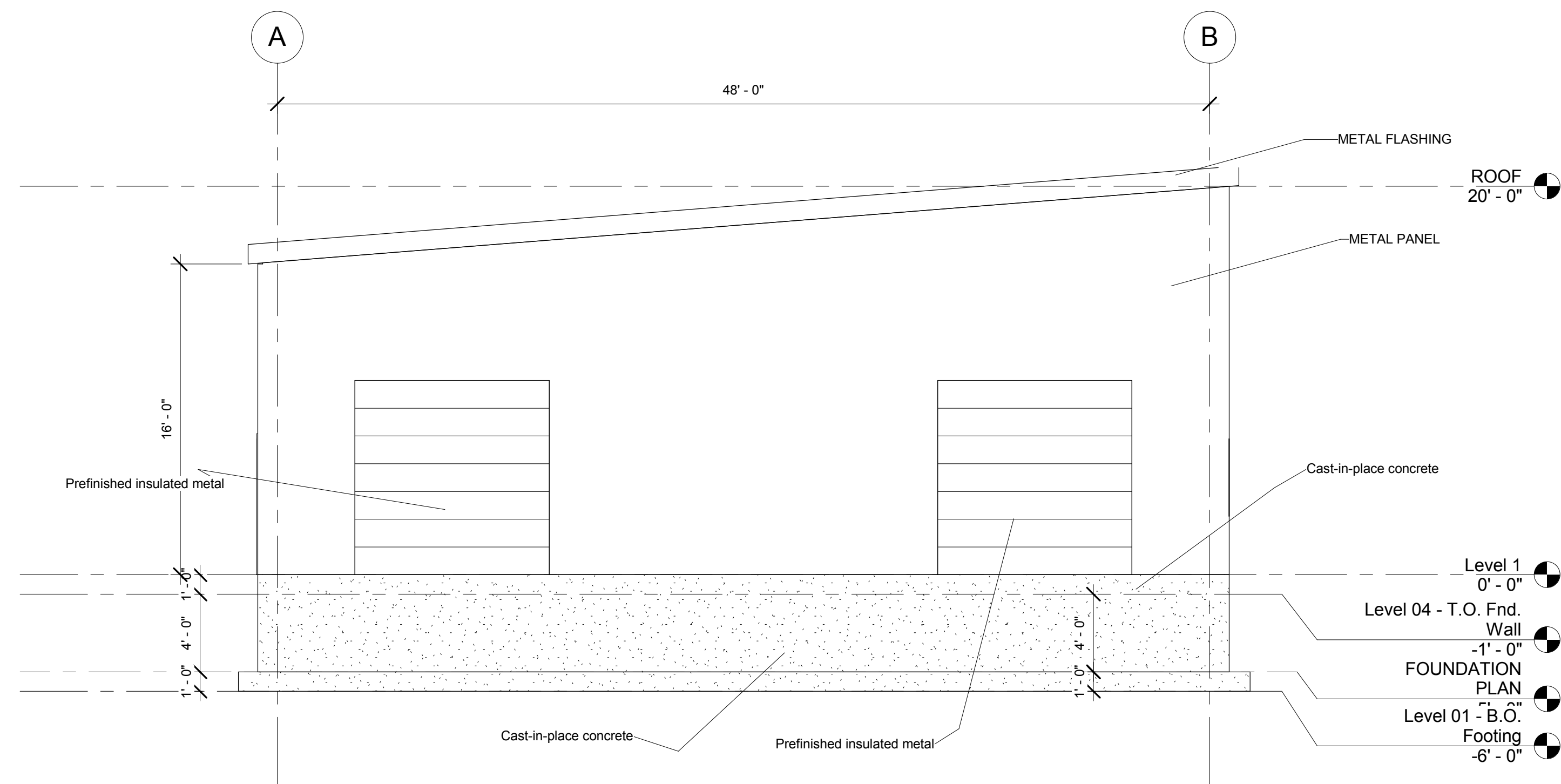
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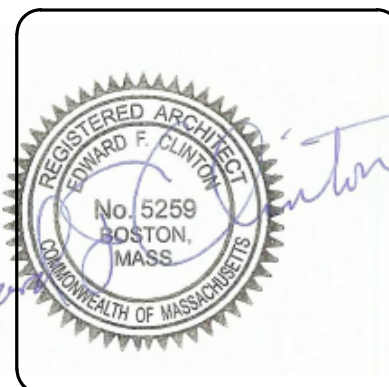


① South  
3/16" = 1'-0"



② West  
3/16" = 1'-0"

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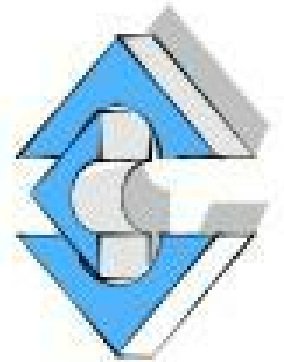


ELEVATIONS

Scale: 3/16" = 1'-0"

A-3



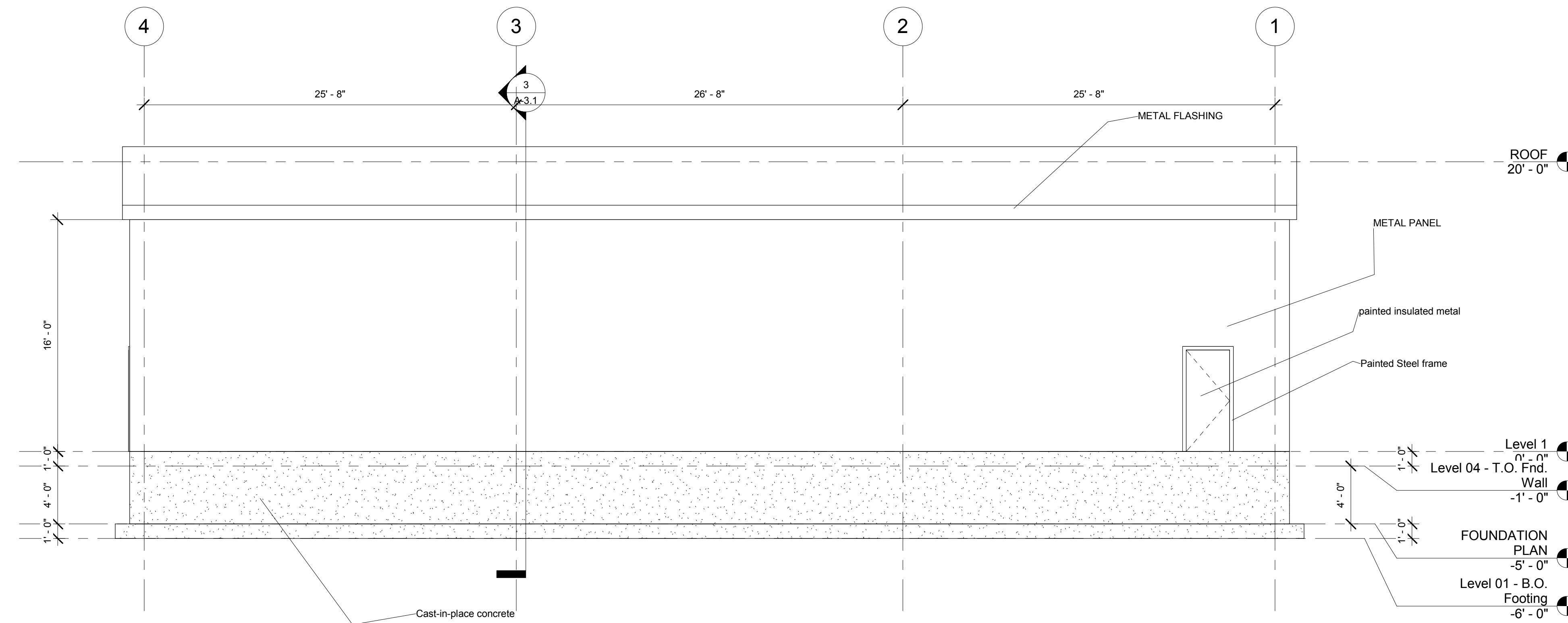


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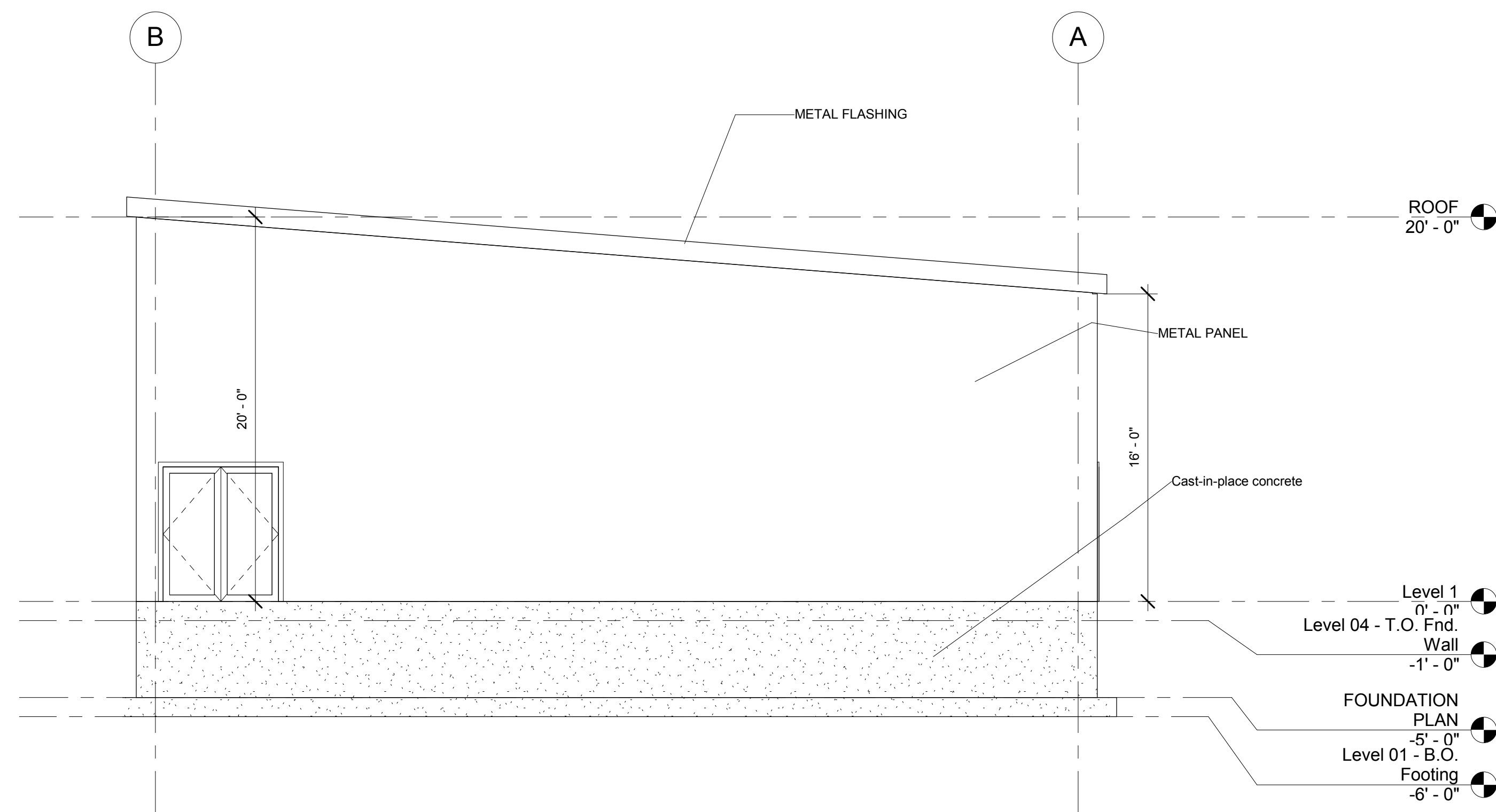
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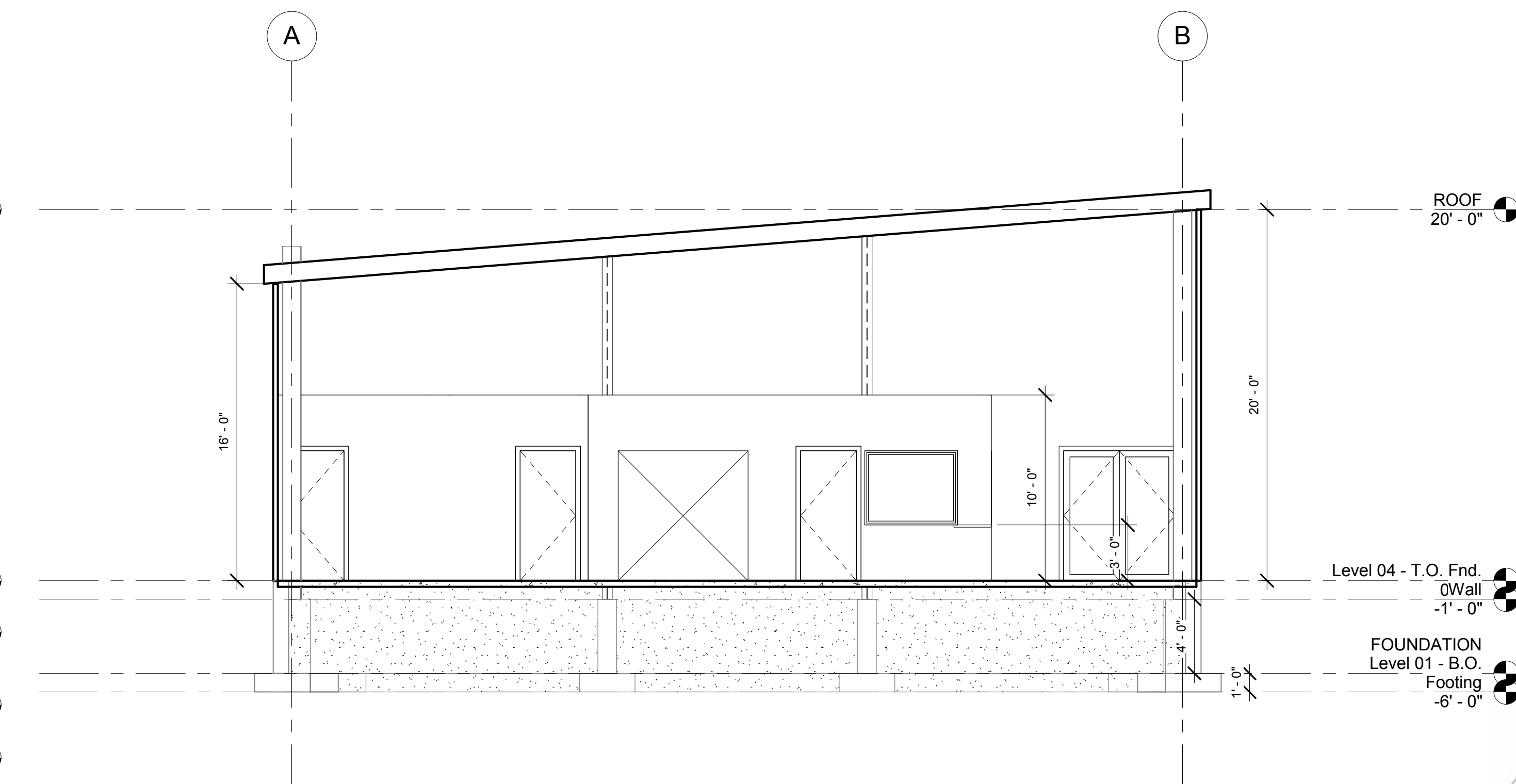
10 OCEANANA WALL  
NORWOOD MA



1 North  
3/16" = 1'-0"

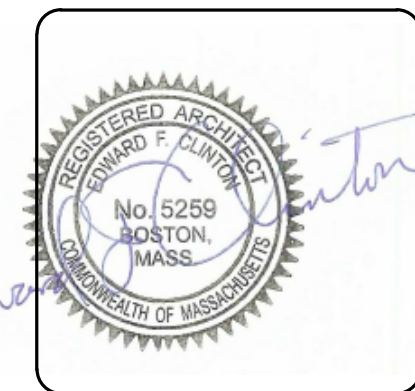


2 East  
3/16" = 1'-0"



3 Section 1  
3/16" = 1'-0"

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ELEVATIONS
Scale: 3/16" = 1'-0"
A-3.1

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