

REFERENCES IN THESE NOTES ARE TO THE OBC (2024 OHIO BUILDING CODE). ALL AREAS OF THIS BUILDING ARE TO MEET THE STANDARDS PRESCRIBED THEREIN.

 STORAGE ROOM.

EXISTING BUILDING AREA = 2,782 SQ. FT.

① PROPOSED ADDITION = 2,752 SQ. FT. = AREA BEING PERMITTED
THE OVERALL BUILDING AREA IS NOW 3,200 SQ. FT.

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DOOR WIDTHS MEET THE REQUIREMENTS OF SECTION 1005.1. THE CAPACITY OF EGRESS COMPONENTS EXCEEDS THE REQUIREMENTS OF SECTION 1005. THE QUANTITY OF EXITS MEETS THE REQUIREMENTS OF SECTION 1015.

ALL DOORS WITH GLASS MEET OR EXCEED THE REQUIREMENTS FOR HUMAN IMPACT LOADS, PER SECTION 2406.1.

DIMENSIONS AND CEILING HEIGHTS MEET THE REQUIREMENTS OF SECTION 1208.0.

THE EQUIPMENT ROOM IS EXISTING AND UNCHANGED. NEW EQUIPMENT IS REPLACING OBSOLETE ITEMS.

THERMAL INSULATING MATERIALS ARE EXISTING AND UNCHANGED.

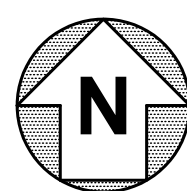
FIRE EXTINGUISHING EQUIPMENT SHALL COMPLY WITH THE PROVISIONS OF SECTION 906.0.

ELECTRICAL PLAN - SEE PLAN FOR ADDITIONAL NOTES; INSTALLED BY A LICENSED ELECTRICAL CONTRACTOR. ALL WORK TO CONFORM TO LOCAL CODES AND THE NATIONAL ELECTRIC CODE.

ICE MELTER PLAN - SEE PLAN FOR ADDITIONAL NOTES; INSTALLATION BY HEATING CONTRACTOR. ALL WORK TO CONFORM TO STATE AND LOCAL CODES.

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A map of a neighborhood in Minneapolis, Minnesota. The map shows a grid of streets. A blue location pin is placed on Lincoln Way E, with the address "3006 Lincoln Way E" written below it. To the west of this location is "The Breastfeeding Center", marked with a shopping bag icon. To the east is "The Eye Clinic", also marked with a shopping bag icon. Various other streets are labeled, including Jackson Ave. NW, Sheila St. NW, Tanya Ave. NW, Jeffrey Ave. NW, Kolpwood Ave. NW, Smively Ave. NW, Canford Ave. NW, Marion Ave. NW, Banyan St. NW, Genoa Ave. NW, Hilton St. NW, Rowford Ave. SW, Lennox Ave. SW, Elmford Ave. SW, Harsh Ave. SE, 25th St. SE, 26th St. SE, 27th St. SE, Berrower Ave. SW, and Grau Ave. SW.



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VICINITY MAP

APPLICABLE CODES

- SEE BUILDING CODE NOTES FOR BUILDING USE CLASSIFICATION.

- RISK CATEGORY (TABLE 1604.5): II
- FLOOR LIVE LOAD STORAGE (TABLE 1607.1): 125 PSF
- ROOF LIVE LOAD (SECTION 1607.12): 20 PSF
- ULTIMATE DESIGN WIND SPEED: 107 MPH
- WIND EXPOSURE: B
- GROUND SNOW LOAD FIG. (TABLE 1608.2): 20 PSF
- SNOW IMPORTANCE FACTOR: 1.00
- SNOW EXPOSURE FACTOR: 0.90
- SEISMIC LOADS

- ### GENERAL NOTES

- ALL WORK ON THIS PROJECT SHALL COMPLY WITH THE PROVISIONS OF THE DRAWINGS AND SPECIFICATIONS AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES, A.D.A. AND REGULATIONS REQUIRED BY REGULATING AUTHORITY.
- THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS BEFORE ORDERING MATERIALS AND BEGINNING WORK.
- THE CONTRACTOR SHALL VERIFY ANY TRUSS DRAWINGS, METAL BUILDING PLANS OR OTHER SHOP DRAWINGS FOR PROPOSED CONSTRUCTION PRIOR TO ORDERING.
- THE CONTRACTOR SHALL NOTIFY THE DESIGN PROFESSIONAL OF ANY DISCREPANCIES ON THE PLANS AND/OR ANY THAT ARE IDENTIFIED IN THE FIELD BEFORE PERFORMING WORK.
- ALL DETAILS AND SECTIONS ARE CONSIDERED TYPICAL AND ARE TO BE USED BY THE CONTRACTOR TO DEVELOP COMPLETE DETAILS OF CONSTRUCTION FOR EACH PHASE OF THE WORK.
- DESIGN, DETAILING AND IMPLEMENTATION OF ALL SHORING AND BRACING THAT MAY BE REQUIRED FOR THE PROJECT DURING CONSTRUCTION IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- DO NOT SCALE PLANS, DETAILS OR SECTIONS. IF THERE IS ANY QUESTION ABOUT DETAILS OR DIMENSIONS, CONTACT THE ENGINEER FOR INFORMATION.
- TRENCH PROTECTION - THE CONTRACTOR SHALL SUPPORT ALL TRENCHES AND EXCAVATION IN ACCORDANCE WITH RULE 4121:1-3-13 OF THE SPECIFIC SAFETY REQUIREMENTS OF THE OHIO BUREAU OF WORKERS COMPENSATION RELATING TO CONSTRUCTION, LATEST EDITION.
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER COMPLETION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE, AND TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS.
- INSTALL ALL MANUFACTURED ITEMS, MATERIALS, AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS OR INSTRUCTIONS, EXCEPT WHEN PROJECT SPECIFICATIONS ARE MORE STRINGENT, SHALL BE FOLLOWED.
- AN APPROVED SET OF CONSTRUCTION DOCUMENTS SHALL BE KEPT AT THE SITE OF THE WORK AND ALWAYS SHALL BE AVAILABLE FOR REFERENCE BY THE BUILDING OFFICIAL WORKING HOURS WHILE SUCH WORK IS IN PROGRESS.
- EACH CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY AND PROTECTION OF THEIR PROSPECTIVE WORK.
- ALL CONTRACTORS TO COORDINATE WITH STRUCTURAL, ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS.
- EACH CONTRACTOR IS RESPONSIBLE FOR MEETING THE SAFETY REQUIREMENTS FOR THEIR PERSONNEL.

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A1.0	FLOOR PLAN - EXISTING / DEMOLITION		
A1.1	FLOOR PLAN - PROPOSED		
A3.0	EXTERIOR ELEVATIONS - EXISTING / DEMOLITION		
A3.1	EXTERIOR ELEVATIONS - PROPOSED		
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P1.0	PLUMBING PLANS		
USE GROUP	CONST. TYPE	MAXIMUM OCCUPANCY LOAD	ADDITION SQUARE FEET
B	5B	UNCHANGED	2,639 SF ADDITION

IF THE ABOVE DIMENSION DOES NOT
MEASURE ONE INCH (1") EXACTLY ,
THIS DRAWING WILL HAVE BEEN
ENLARGED OR REDUCED, AFFECTING
ALL LABELED SCALES.

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CONSTRUCTION
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CARWASH ALTERATION / ADDITION
EPIC CASCADES CAR WA
 3006 LINCOLN WAY EAST
 MASSILLON, OHIO 44646

Michael A. Lehman, P.E.
M. A. Lehman Professional Engineering, LLC

15057 ARNOLD ROAD
DALTON, OHIO 44618
PH (330) 465-1387
FX: (330) 828-8537

TITLE SHEET

ICC A117.1-2017 : Standard for Accessible and Usable Buildings and Facilities

SECTION 606 - LAVATORIES AND SINKS

606.2 Clear floor space. A clear floor space complying with Section 305.3, positioned for forward approach, shall be provided. Knee and toe clearance complying with Section 306 shall be provided. The depth of the overflow shall not be considered in determining knee and toe clearances.

- Exceptions:
1. A clear floor space providing a parallel approach shall be permitted at a kitchen sink in a space where a cook top or conventional range is not provided.
 2. The requirement for knee and toe clearance shall not apply to a lavatory in a toilet or bathing facility for a single occupant, accessed only through a private office and not for common use or public use.
 3. A knee clearance of 24 inches (610 mm) minimum above the floor shall be permitted at lavatories and sinks used primarily by children ages 6 through 12 where the higher of the rim or counter surface is 31 inches (785 mm) maximum above the floor.
 4. A clear floor space providing a parallel approach shall be permitted at lavatories and sinks used primarily by children ages 5 and younger.
 5. The requirement for knee and toe clearance shall not apply to more than one bowl of a multibowl sink.
 6. A clear floor space providing a parallel approach shall be permitted at wet bars.

606.3 Height. The front of lavatories and sinks shall be 34 inches (865 mm) maximum above the floor, measured to the higher of the rim or counter surface.

Exception:

A lavatory in a toilet or bathing facility for a single occupant, accessed only through a private office and not for common use or public use, shall not be required to comply with Section 606.3.

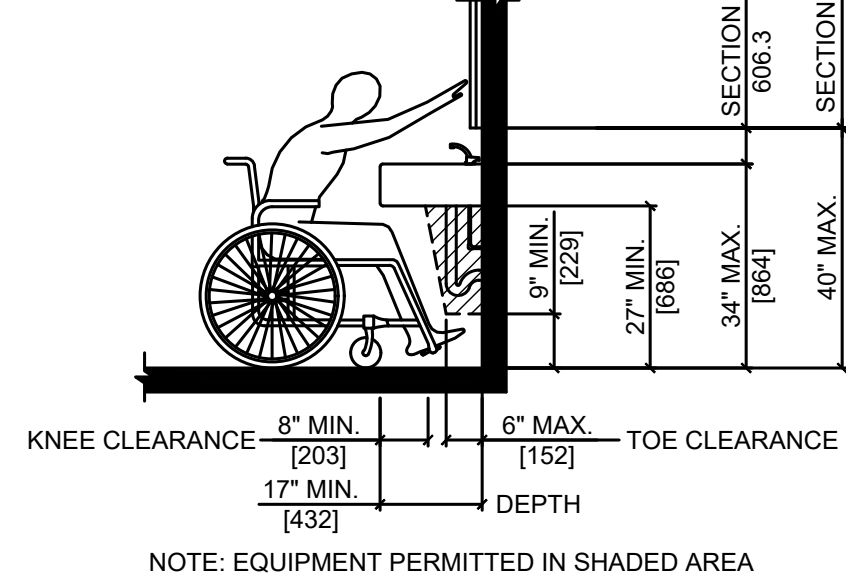


FIGURE C606.2(a) LAVATORIES AND SINKS

606.4 Faucets. Faucets shall comply with Section 309. Hand operated metering faucets shall remain open for 10 seconds minimum.

Exception:

Automatic faucets shall not be required to comply with Section 309 provided that the reach depth to activate the faucets and the reach depth to the water flow is 11 inches (280 mm) maximum.

606.5 Lavatories with enhanced reach range. Where enhanced reach range is required at lavatories, faucets and soap dispenser controls shall have a reach depth of 11 inches (280 mm) maximum. Water and soap outlets shall be provided with a reach depth of 11 inches (280 mm) maximum. The lavatory shall be 34 inches (865 mm) maximum above the floor, measured to the higher of the rim or counter surface.

- Exceptions:
1. Enhanced reach range faucets shall not be required on lavatories provided with automatic faucets where the reach depth to activate the faucets and the reach depth to the water outlet is 11 inches (280 mm) maximum.
 2. Enhanced reach range soap dispensers shall not be required on lavatories provided with automatic dispensers where the reach depth to activate the soap dispensers and the reach depth to the soap outlet is 11 inches (280 mm) maximum.

606.6 Exposed pipes and surfaces. Water supply and drainpipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks.

SECTION 608 - SHOWER COMPARTMENTS

608.2 Size, clearance and seat. Shower compartments shall have sizes, clearances and seats complying with Section 608.2.

608.2.1 Transfer-type shower compartments. Transfer type shower compartments shall comply with Section 608.2.1.

608.2.1.1 Size. Transfer-type shower compartments shall have a clear inside dimension of 36 inches (915 mm) in width and 36 inches (915 mm) in depth, measured at the center point of opposing sides. An entry 36 inches (915 mm) minimum in width shall be provided.

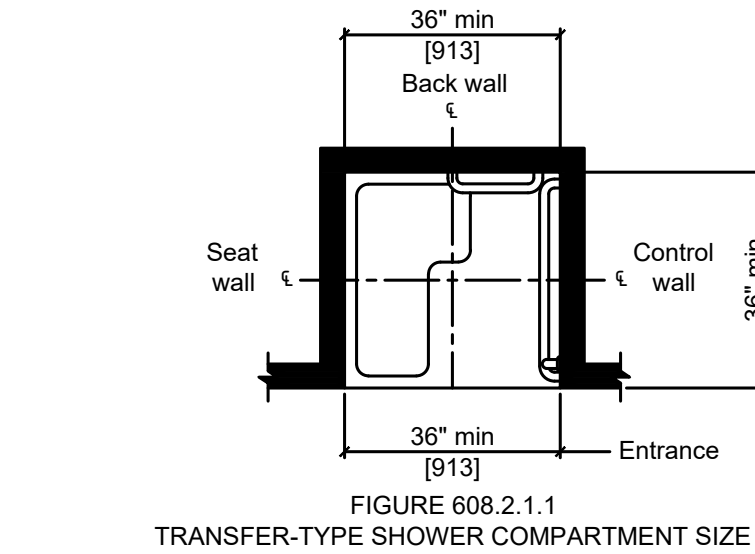


FIGURE 608.2.1.1 TRANSFER-TYPE SHOWER COMPARTMENT SIZE

608.2.1.2 Clearance. 608.2.1.2.1 New buildings and facilities. In new buildings and facilities, a clearance of 52 inches (1320 mm) minimum in length and 36 inches (915 mm) minimum in depth shall be provided adjacent to the open face of the compartment. The length of the clear floor space shall be measured perpendicular from either the control wall or from 4 inches (100 mm) behind the control wall.

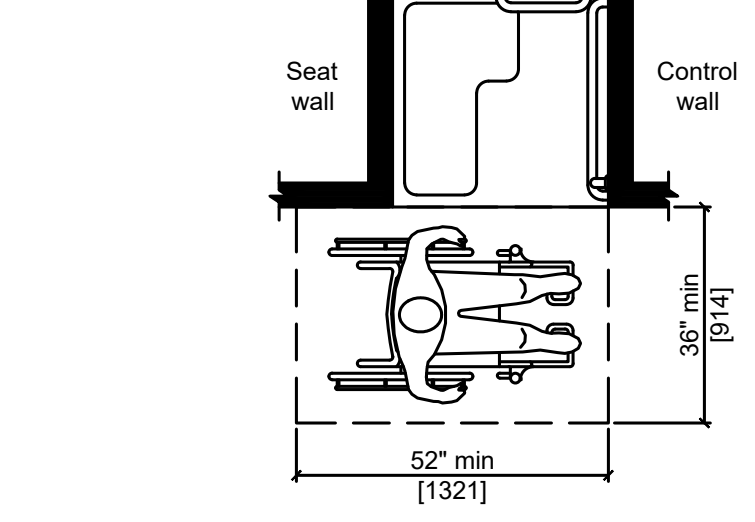


FIGURE 608.2.1.2(A) TRANSFER-TYPE SHOWER COMPARTMENT CLEARANCES NEW BUILDINGS - OPTION 1

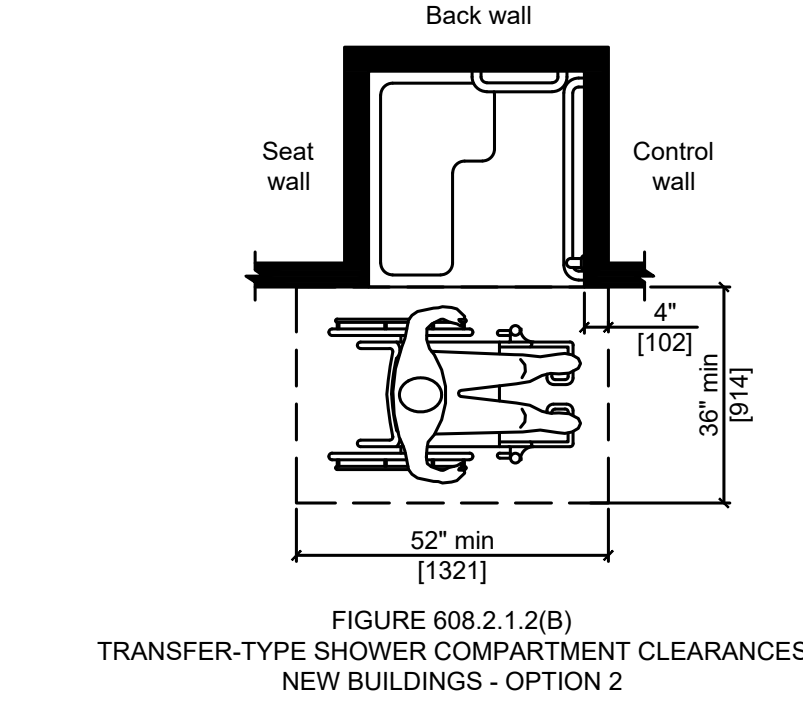


FIGURE 608.2.1.2(B) TRANSFER-TYPE SHOWER COMPARTMENT CLEARANCES NEW BUILDINGS - OPTION 2

608.2.1.2.2 Existing buildings and facilities. In existing buildings and facilities, a clearance of 48 inches (1220 mm) minimum in length measured perpendicular from the control wall, and 36 inches (915 mm) minimum in depth shall be provided adjacent to the open face of the compartment.

608.2.1.3 Seat. A folding or non-folding seat complying with Section 610 shall be provided on the wall opposite the control wall.

Exception: A seat is not required to be installed in a shower for a single occupant, accessed only through a private office and not for common use or public use, provided reinforcement has been installed in walls and located so as to permit the installation of a shower seat.

608.2.2 Standard roll-in-type shower compartments. Standard roll-in-type shower compartments shall comply with Section 608.2.2.

608.2.2.1 Size. Standard roll-in-type shower compartments shall have a clear inside dimension of 60 inches (1525 mm) minimum in width and 30 inches (760 mm) minimum in depth, measured at the center point of opposing sides. An entry 60 inches (1525 mm) minimum in width shall be provided.

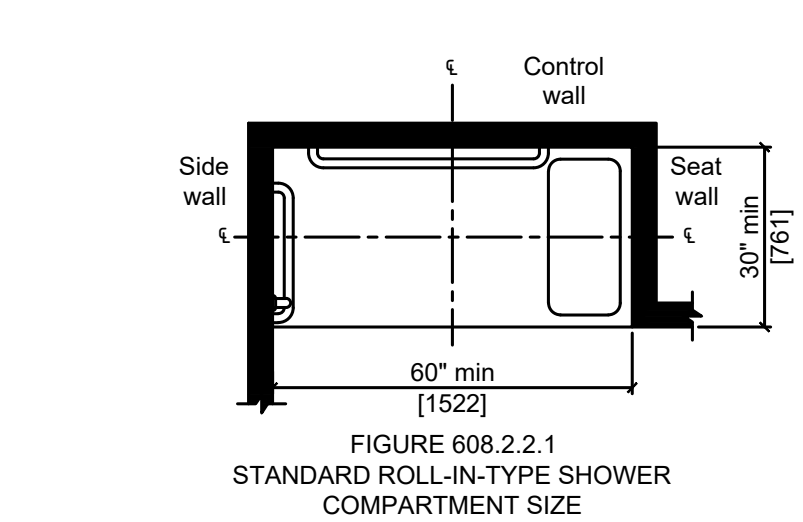


FIGURE 608.2.2.1 STANDARD ROLL-IN-TYPE SHOWER COMPARTMENT SIZE

608.2.2.2 Clearance. A clearance of 60 inches (1525 mm) minimum in length adjacent to the 60-inch (1525 mm) width of the open face of the shower compartment, and 30 inches (760 mm) minimum in depth, shall be provided.

Exception: A lavatory complying with Section 606 shall be permitted at the end of the clearance opposite the seat.

608.2.2.3 Seat. A folding seat complying with Section 610 shall be provided on an end wall.

- Exceptions:
1. A seat is not required to be installed in a shower for a single occupant accessed only through a private office and not for common use or public use, provided reinforcement has been installed in walls and located so as to permit the installation of a shower seat.
 2. A fixed seat shall be permitted where the seat does not overlap the minimum clear inside dimension required by Section 608.2.2.1.

608.2.3 Alternate roll-in-type shower compartments. Alternate roll-in-type shower compartments shall comply with Section 608.2.3.

608.2.3.1 Size. Alternate roll-in shower compartments shall have a clear inside dimension of 60 inches (1525 mm) minimum in width, and 36 inches (915 mm) in depth, measured at the center point of opposing sides. An entry 36 inches (915 mm) minimum in width shall be provided at one end of the 60-inch (1525 mm) width of the compartment. A seat wall, 24 inches (610 mm) minimum and 36 inches (915 mm) maximum in length, shall be provided on the entry side of the compartment.

608.2.3.2 Seat. A folding seat complying with Section 610 shall be provided on the seat wall opposite the back wall.

Exception: A seat is not required to be installed in a shower for a single occupant, accessed only through a private office and not for common use or public use, provided reinforcement has been installed in walls and located so as to permit the installation of a shower seat.

608.3 Grab bars. Grab bars shall comply with Section 609 and shall be provided in accordance with Section 608.3. Where multiple grab bars are used, required horizontal grab bars shall be installed at the same height above the floor.

Exception: Grab bars shall not be required to be installed in a shower for a single occupant, accessed only through a private office and not for common use or public use, provided reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with Section 608.3.

608.3.1 Transfer-type showers. Grab bars for transfer type showers shall comply with Section 608.3.1.

608.3.1.1 Horizontal Grab Bars. Horizontal grab bars shall be provided across the control wall and on the back wall to a point 18 inches (455 mm) from the control wall.

608.3.1.2 Vertical grab bar. A vertical grab bar 18 inches (455 mm) minimum in length shall be provided on the control end wall 3 inches (75 mm) minimum and 6 inches (150 mm) maximum above the horizontal grab bar, and 4 inches (100 mm) maximum inward from the front edge of the shower.

608.3.2 Standard roll-in-type showers. Grab bars in standard roll-in showers

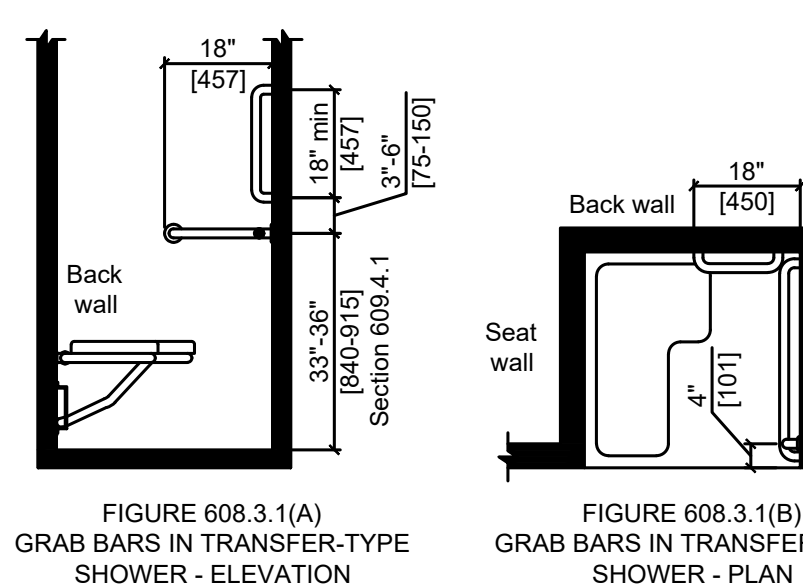


FIGURE 608.3.1(A) GRAB BARS IN TRANSFER-TYPE SHOWER - ELEVATION

shall comply with Sections 608.3.2.1 through 608.3.2.3.

608.3.2.1 Back-wall grab bar. In standard roll-in type showers, a grab bar shall be provided on the back wall beginning at the edge of the seat. The grab bars shall not be provided above the seat. The back-wall grab bar shall extend the length of the wall and extend within 6 inches (150 mm) maximum from the adjacent side wall opposite the seat.

- Exceptions:
1. The back wall grab bar shall not be required to exceed 48 inches (1220 mm) in length.
 2. The back-wall grab bar is not required to extend within 6 inches (150 mm) of the adjacent side wall opposite the seat if it would require the grab bar length to exceed 48 inches (1220 mm) in length.

608.3.2.2 Side-wall grab bars. Where a side wall is provided opposite the seat within 72 inches (1830 mm) of the seat wall, a grab bar shall be provided on the side-wall opposite the seat. The side wall grab bar shall extend the length of the wall and extend within 6 inches (150 mm) maximum from the adjacent back wall.

Exception: The side-wall grab bar shall not be required to exceed 30 inches (760 mm) in length.

608.3.2.3 Vertical grab bar. Where a side wall is provided opposite the seat within 72 inches (1830 mm) of the seat wall a vertical grab bar shall be provided. A vertical grab bar 18 inches (455 mm) minimum in length shall be provided on the end wall 3 inches (75 mm) minimum and 6 inches (150 mm) maximum above the horizontal grab bar, and 4 inches (100 mm) maximum inward from the front edge of the shower.

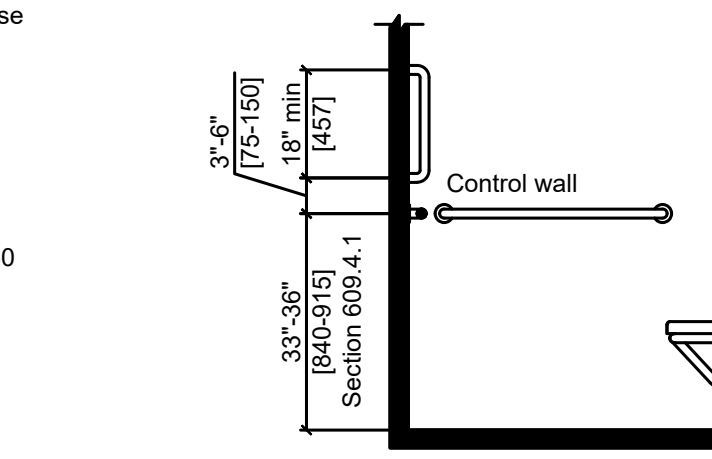


FIGURE 608.3.2(A) GRAB BARS IN STANDARD ROLL-IN-TYPE SHOWER - ELEVATION

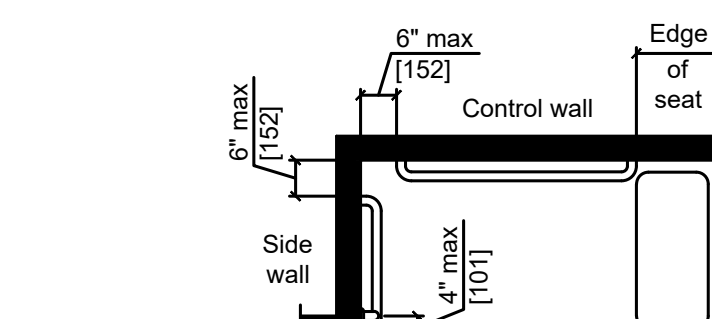


FIGURE 608.3.2(B) GRAB BARS IN STANDARD ROLL-IN-TYPE SHOWER - PLAN

608.3.3 Alternate roll-in-type showers. In alternate roll-in type showers, grab bars shall be provided on the back wall and the side wall adjacent to the seat. Grab bars shall not be provided above the seat. Grab bars shall be 6 inches (150 mm) maximum from the adjacent wall.

608.4 Controls and hand showers. Controls and hand showers shall comply with Sections 608.4 and 309.4.

608.4.1 Transfer-type showers. In transfer-type showers, the controls and hand shower shall be located:

1. On the control wall opposite the seat.
2. At a height of 38 inches (965 mm) minimum and 48 inches (1220 mm) maximum above the shower floor, and
3. 15 inches (380 mm) maximum, from the centerline of the control wall toward the shower opening.

608.4.2 Standard roll-in showers. In standard roll-in showers, the controls and hand shower shall be located above the seat. Controls and hand showers shall be located according to the following:

1. On the back wall,
2. At a height of 38 inches (965 mm) minimum and 48 inches (1220 mm) maximum above the shower floor and
3. 16 inches (405 mm) minimum and 27 inches (685 mm) maximum from the wall behind the seat.

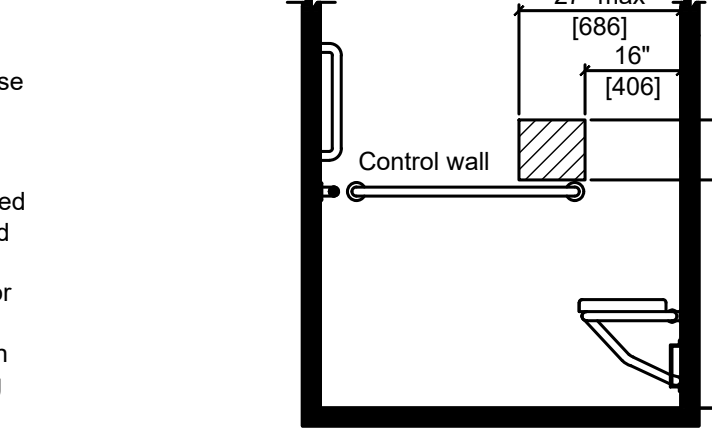


FIGURE 608.4.2 STANDARD ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION

608.4.3 Alternate roll-in showers. In alternate roll-in showers, the controls and hand shower shall be located:

1. At a height of 38 inches (965 mm) minimum and 48 inches (1220 mm) maximum above the shower floor, and
2. Where the controls and hand shower are located on the end wall adjacent to the seat, the controls and hand shower shall be 16 inches (405 mm) minimum and 27 inches (685 mm) maximum from the wall behind the seat wall, or
3. Where the controls and hand shower are located on the back wall opposite the seat, the controls and hand shower shall be located within 15 inches (380 mm) maximum from the centerline of the seat toward the transfer space.

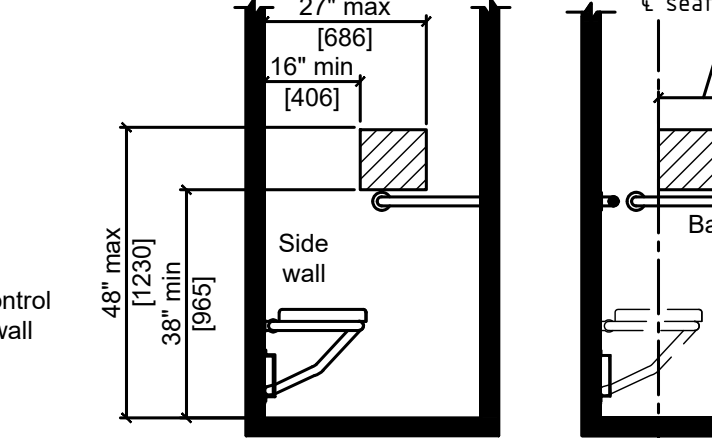


FIGURE 608.4.3(A) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - END WALL - ELEVATION

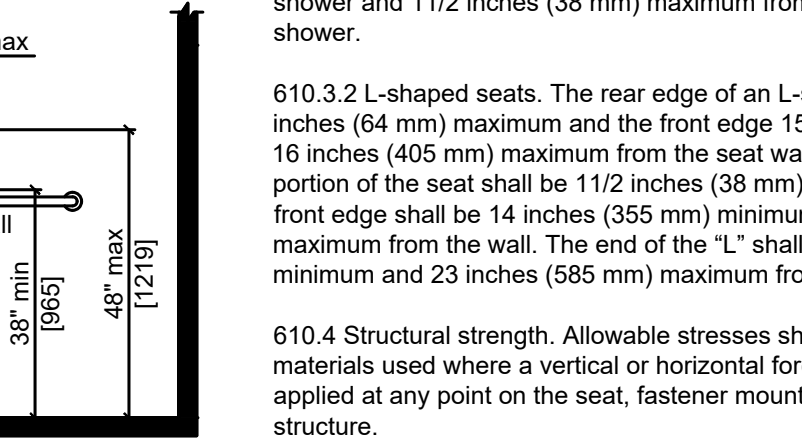


FIGURE 608.4.3(B) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(C) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(D) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(E) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(F) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(G) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(H) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(I) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(J) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(K) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(L) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(M) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(N) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(O) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(P) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(Q) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(R) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(S) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(T) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(U) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(V) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(W) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(X) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(Y) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(Z) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(1) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(2) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(3) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(4) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(5) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(6) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

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FIGURE 608.4.3(16) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(17) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(18) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(19) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(20) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(21) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(22) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(23) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(24) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(25) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(26) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(27) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(28) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(29) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(30) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(31) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(32) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(33) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(34) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(35) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(36) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(37) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(38) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(39) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(40) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(41) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(42) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

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FIGURE 608.4.3(46) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

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FIGURE 608.4.3(48) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

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FIGURE 608.4.3(50) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(51) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(52) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(53) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(54) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(55) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(56) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

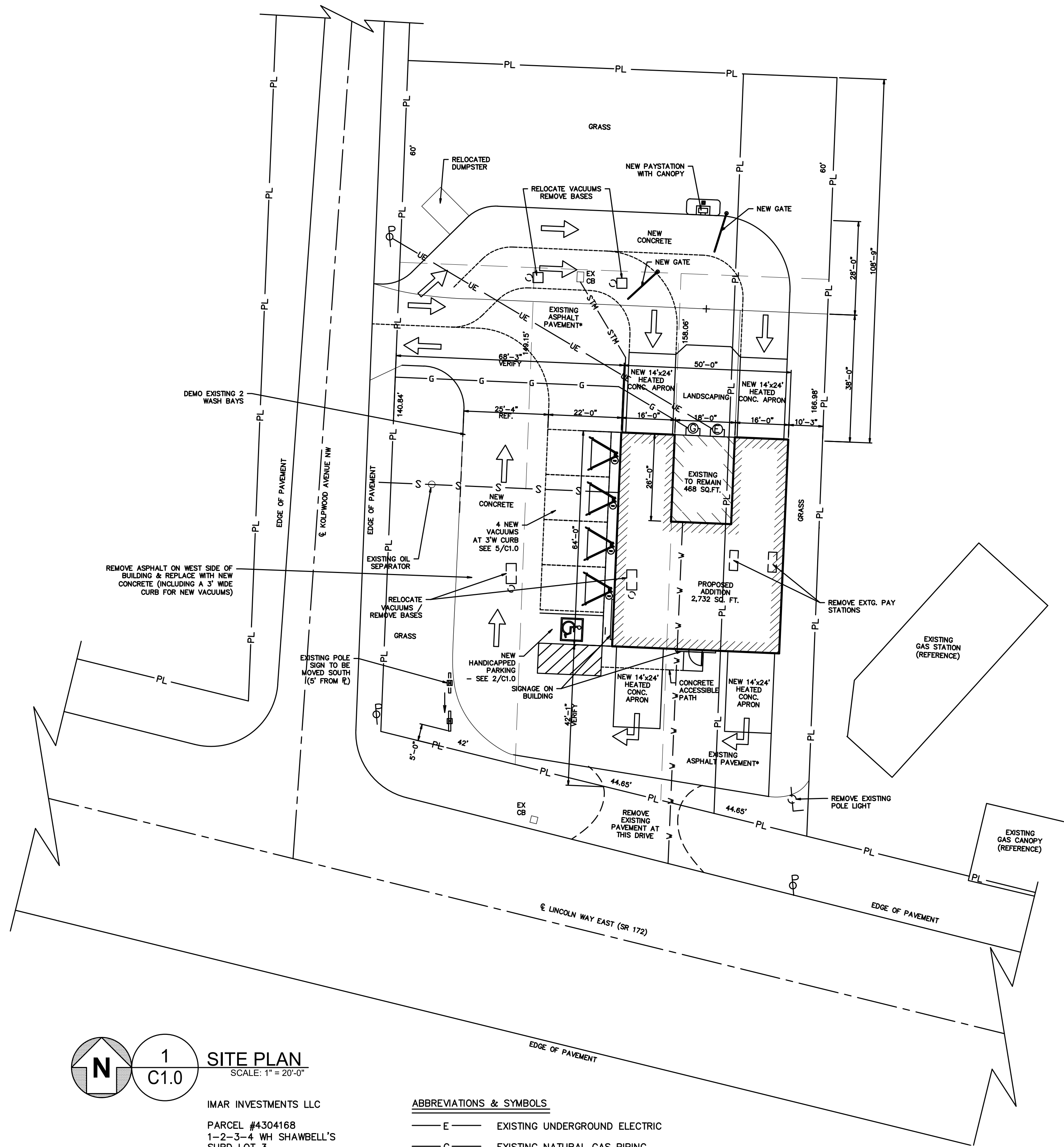
FIGURE 608.4.3(57) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(58) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(59) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(60) ALTERNATE ROLL-IN-TYPE SHOWER CONTROLS AND HAND SHOWER LOCATION - CONTROL WALL - ELEVATION

FIGURE 608.4.3(61) ALTERNATE ROLL-IN-T



1 SITE PLAN
C1.0
SCALE: 1" = 20'-0"

IMAR INVESTMENTS LLC
PARCEL #4304168
1-2-3-4 WH SHAWBELL'S
SUBD LOT 3
.646A
PERRY TOWNSHIP
STARK COUNTY, OHIO

CONTRACTOR TO VERIFY
EXISTING UTILITY LOCATIONS

ABBREVIATIONS & SYMBOLS

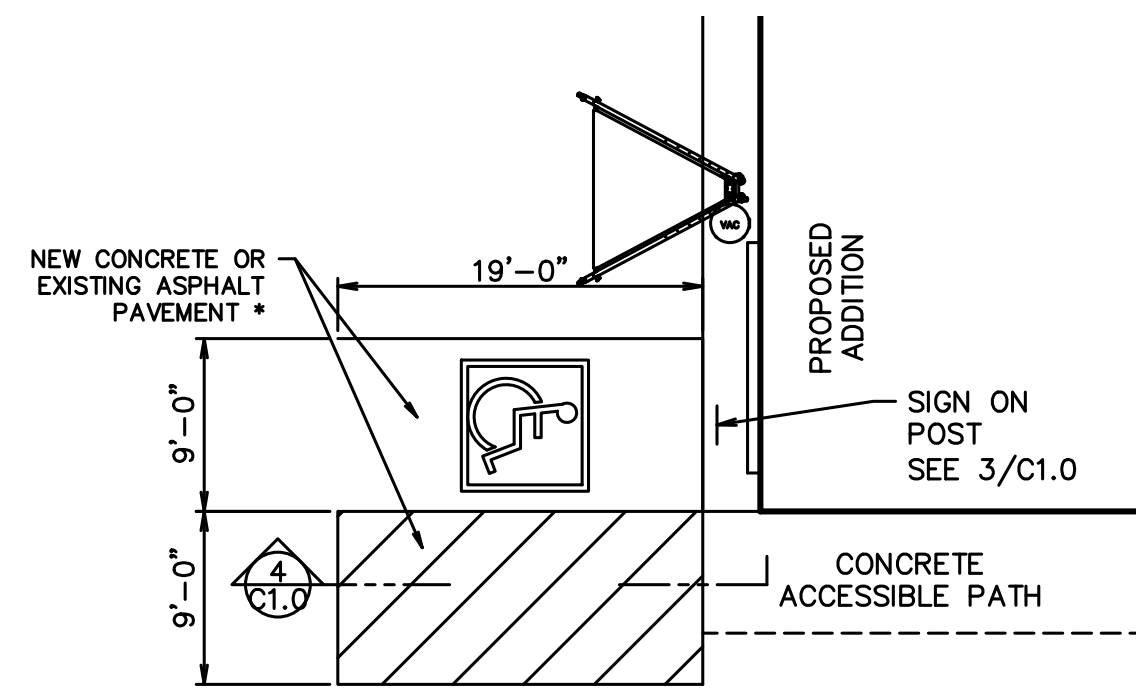
- E — EXISTING UNDERGROUND ELECTRIC
- G — EXISTING NATURAL GAS PIPING
- S — EXISTING SANITARY SEWER PIPING
- W — EXISTING WATER PIPING
- PL — PROPERTY LINE
- ⊕ EXISTING POWER POLE
- ⊙ EXISTING POLE LIGHT
- EX □ CB EXISTING CATCH BASIN

CONTRACTOR TO VERIFY UTILITY LOCATIONS.

NOTE:
IF DISTURBING ONE OR MORE ACRES OF GROUND, AN EPA PERMIT
IS REQUIRED. THE OWNER/CONTRACTOR WILL SECURE THE
SERVICES OF A LICENSED CIVIL ENGINEER TO PREPARE CIVIL PLANS.

NOTES: * SEE CIVIL PLANS FOR UPDATES TO SITE
ASPHALT & CONCRETE PAVING.

SEE CAR WASH EQUIPMENT CONDUIT LAYOUT
FOR CONDUIT SIZE & CONDUCTOR SIZES.



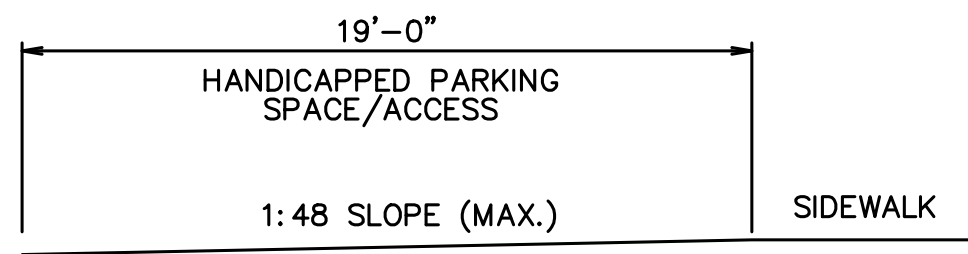
2 HANDICAPPED PARKING DETAIL
C1.0
SCALE: 1" = 10'-0"

* PATCH OR REPLACE THE EXISTING PAVED
SURFACE, AS NECESSARY. ANY
REPLACEMENTS SHALL BE MIN. 5" THICK
CONCRETE OR ASPHALT PAVING.



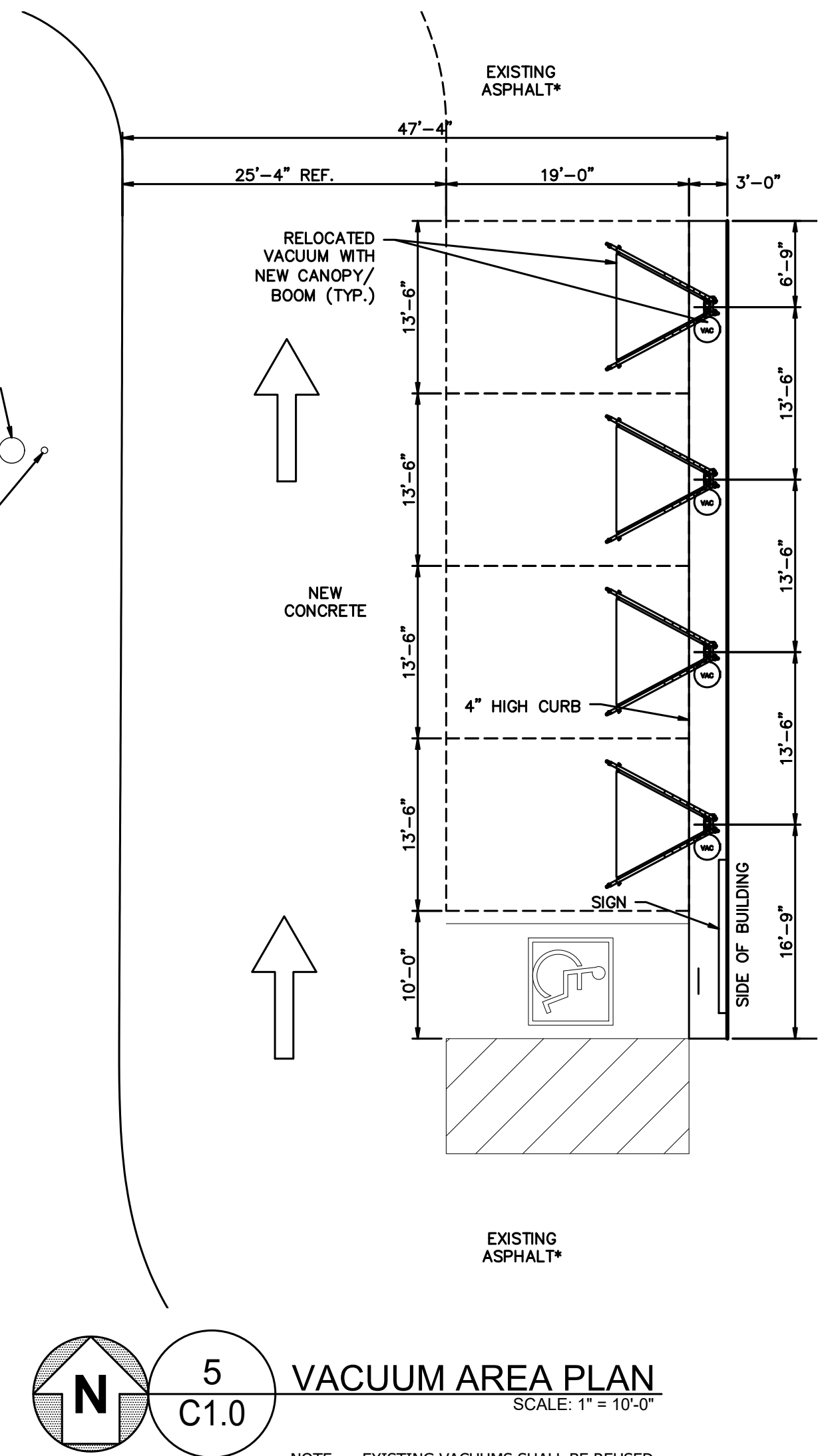
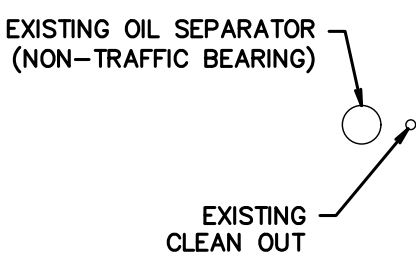
3 HANDICAPPED PARKING SIGNAGE
C1.0
SCALE: NONE

PROVIDE VERTICAL SIGNAGE FOR
HANDICAPPED PARKING SPACE AS
RECOMMENDED BY ICC A117.1-2009 502.7
AND AS REQUIRED BY LOCAL ORDINANCE.



4 HANDICAPPED PARKING PROFILE
C1.0
SCALE: NONE

PARKING AND ACCESSIBLE PATH SHALL
COMPLY WITH ICC A117.1-2009, SECTION 502.



5 VACUUM AREA PLAN
C1.0
SCALE: 1" = 10'-0"

NOTE: EXISTING VACUUMS SHALL BE REUSED,
MOUNTED TO NEW CANOPY BOOMS WITH
BUILT-IN LIGHTING.

CALL BEFORE YOU DIG
8-1-1 OR 1-800-362-2764



Michael A. Lehman, P.E.
M. A. Lehman Professional Engineering, LLC
15057 ARNOLD ROAD
DALTON, OHIO 44618
PH (330) 465-1387
FX: (330) 828-8537

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CARWASH ALTERATION / ADDITION
EPIC CASCADES CAR WASH
3006 LINCOLN WAY EAST
MASSILLON, OHIO 44646

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MEASURE ONE INCH (1") EXACTLY,
THIS DRAWING WILL HAVE BEEN
ENLARGED OR REDUCED, AFFECTING
ALL LABELED SCALES.

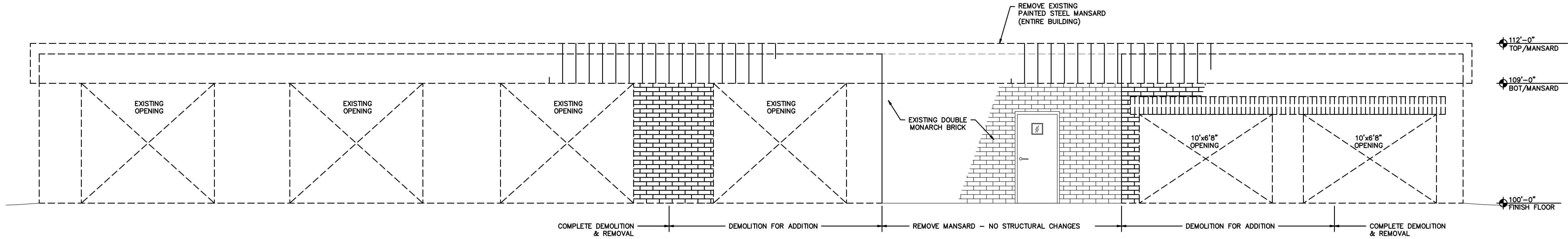
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Mark	Revisions	Scale:	AS NOTED
1	REVISED AND REDRAWN PER OWNER'S REQUEST.	Drawn By:	TAC
		Checked By:	MAL
		Job:	2546
		Sheet:	

C1.0

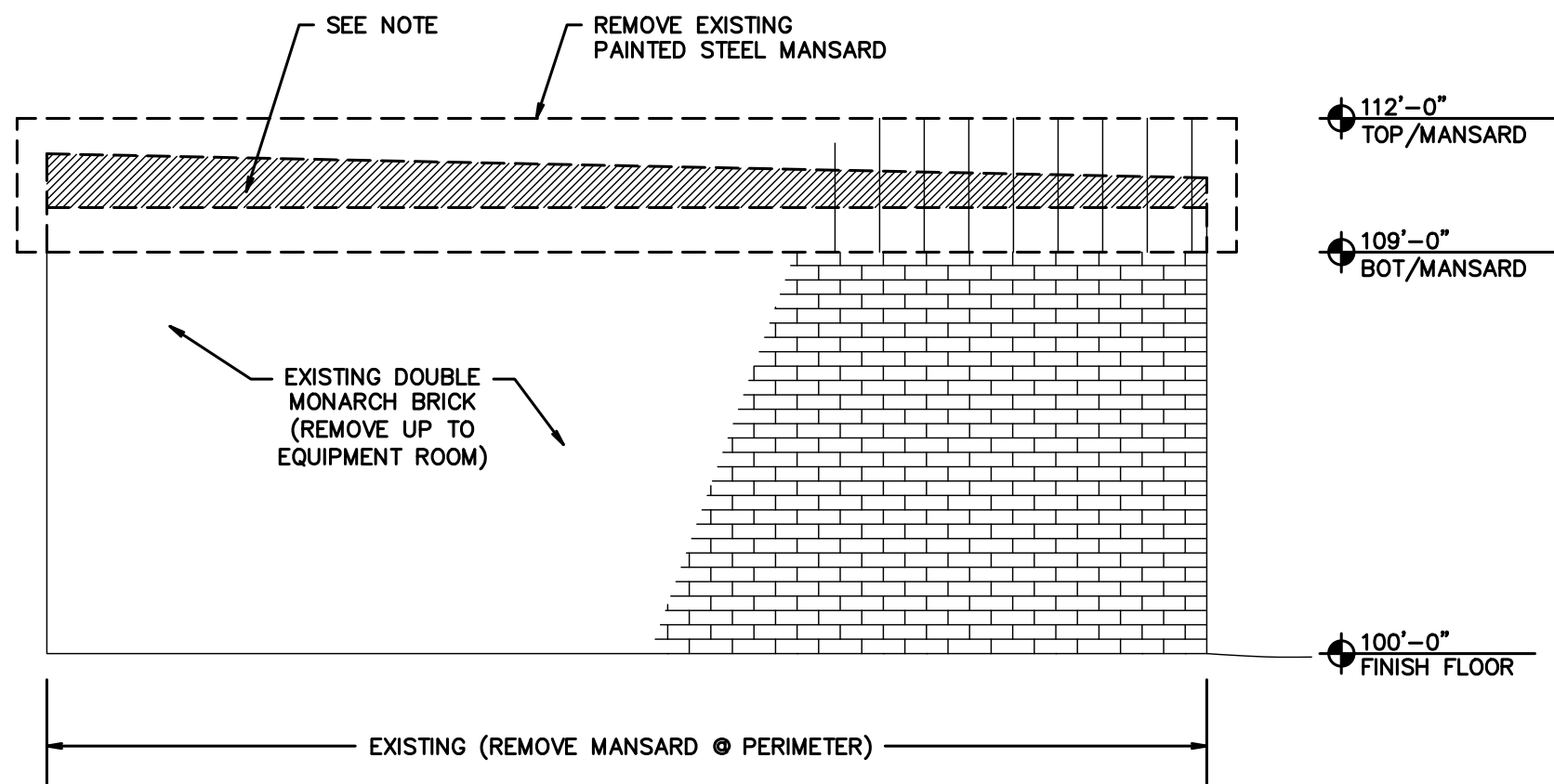
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SITE PLAN

FLOOR PLAN - PROPOSED

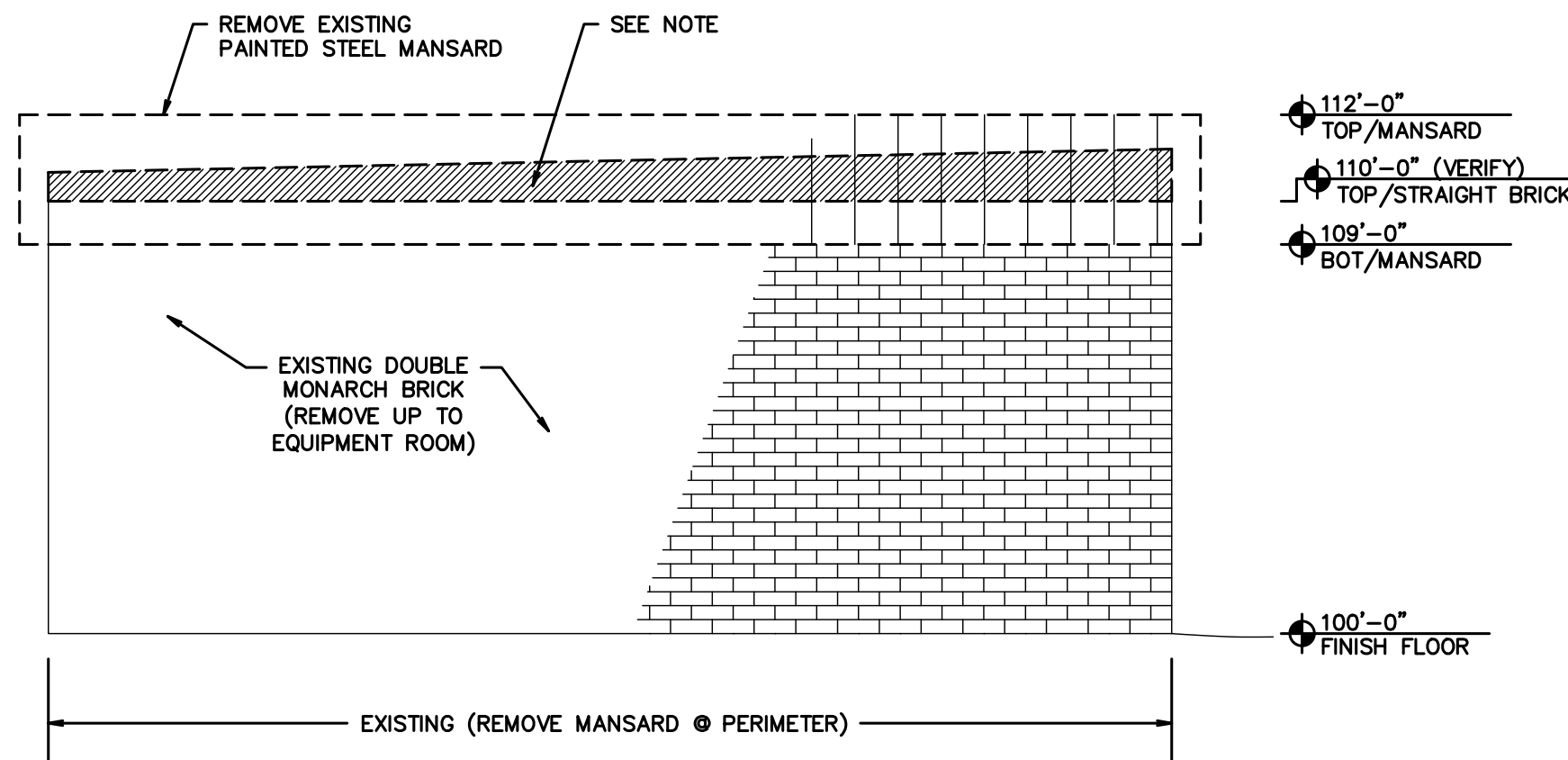


1 SOUTH ELEVATION - EXISTING / DEMOLITION
A3.0
SCALE: 1/4" = 1'-0"



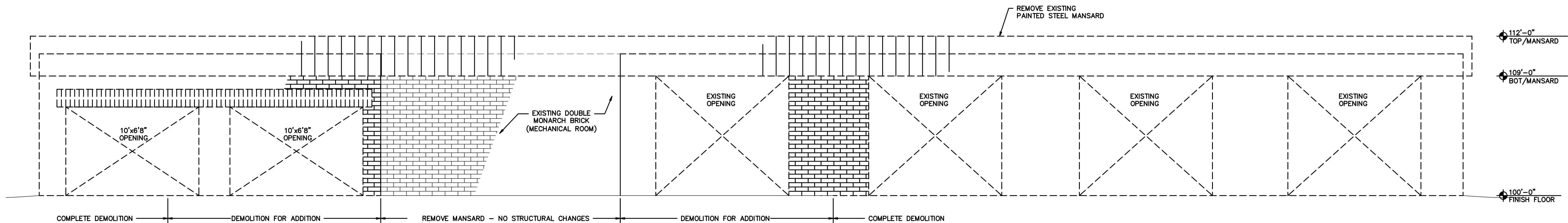
2 EAST ELEVATION - EXISTING / DEMOLITION
A3.0
SCALE: 1/4" = 1'-0"

NOTE:
THE 2 EAST AUTOMATIC BAYS ARE TO BE DEMOLISHED. ON THE REMAINING BUILDING, REMOVE THE BRICK THAT IS SLOPED OR CUT, DOWN TO THE STRAIGHT COURSE AT APPROXIMATELY 10' AFF ON THE EAST WALL OF THE EQUIPMENT ROOM. THE SHARED WALL WITH THE EQUIPMENT ROOM WILL NEED TO HAVE TEMPORARY SUPPORT FOR THE REMAINING ROOF BEFORE ANY WALL DEMOLITION.



3 WEST ELEVATION - EXISTING / DEMOLITION
A3.0
SCALE: 1/4" = 1'-0"

NOTE:
THE 4 WEST SELF-SERVE BAYS ARE TO BE DEMOLISHED. ON THE REMAINING BUILDING, REMOVE THE BRICK THAT IS SLOPED OR CUT, DOWN TO THE STRAIGHT COURSE AT APPROXIMATELY 10' AFF ON THE WEST WALL OF THE EQUIPMENT ROOM. THE SHARED WALL WITH THE EQUIPMENT ROOM WILL NEED TO HAVE TEMPORARY SUPPORT FOR THE REMAINING ROOF BEFORE ANY WALL DEMOLITION.



4 NORTH ELEVATION - EXISTING / DEMOLITION
A3.0
SCALE: 1/4" = 1'-0"

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M. A. Lehman Professional Engineering, LLC
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ALL LABELED SCALES.

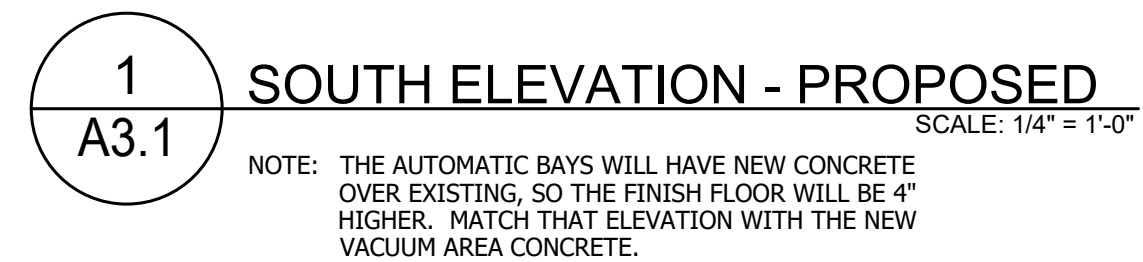
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Mark	Revisions	
1	REVISED AND REDRAWN PER OWNER'S REQUEST.	06/29/26

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Job: 2546

Sheet:
A3.0

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EXTERIOR ELEVATIONS - EXISTING / DEMOLITION

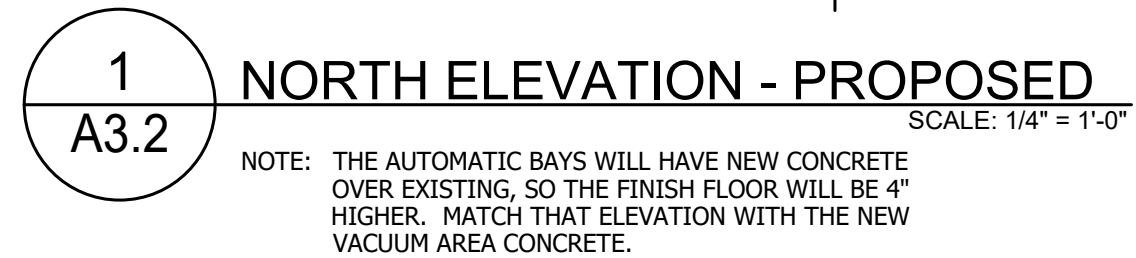


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EXTERIOR ELEVATIONS - PROPOSED

[illegible]

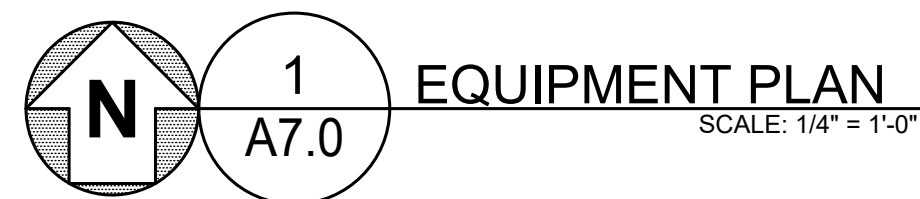


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EXTERIOR ELEVATIONS - PROPOSED

[illegible]



NOTE: EQUIPMENT LIST PROVIDED BY SUPPLIER FOR THE NEW ITEMS. EXISTING EQUIPMENT INCLUDED AS WELL.
CONTRACTOR TO VERIFY ALL EQUIPMENT.

* PAY STATION APP SOFTWARE PROVIDES WIRELESS PAYMENT.

A7.0

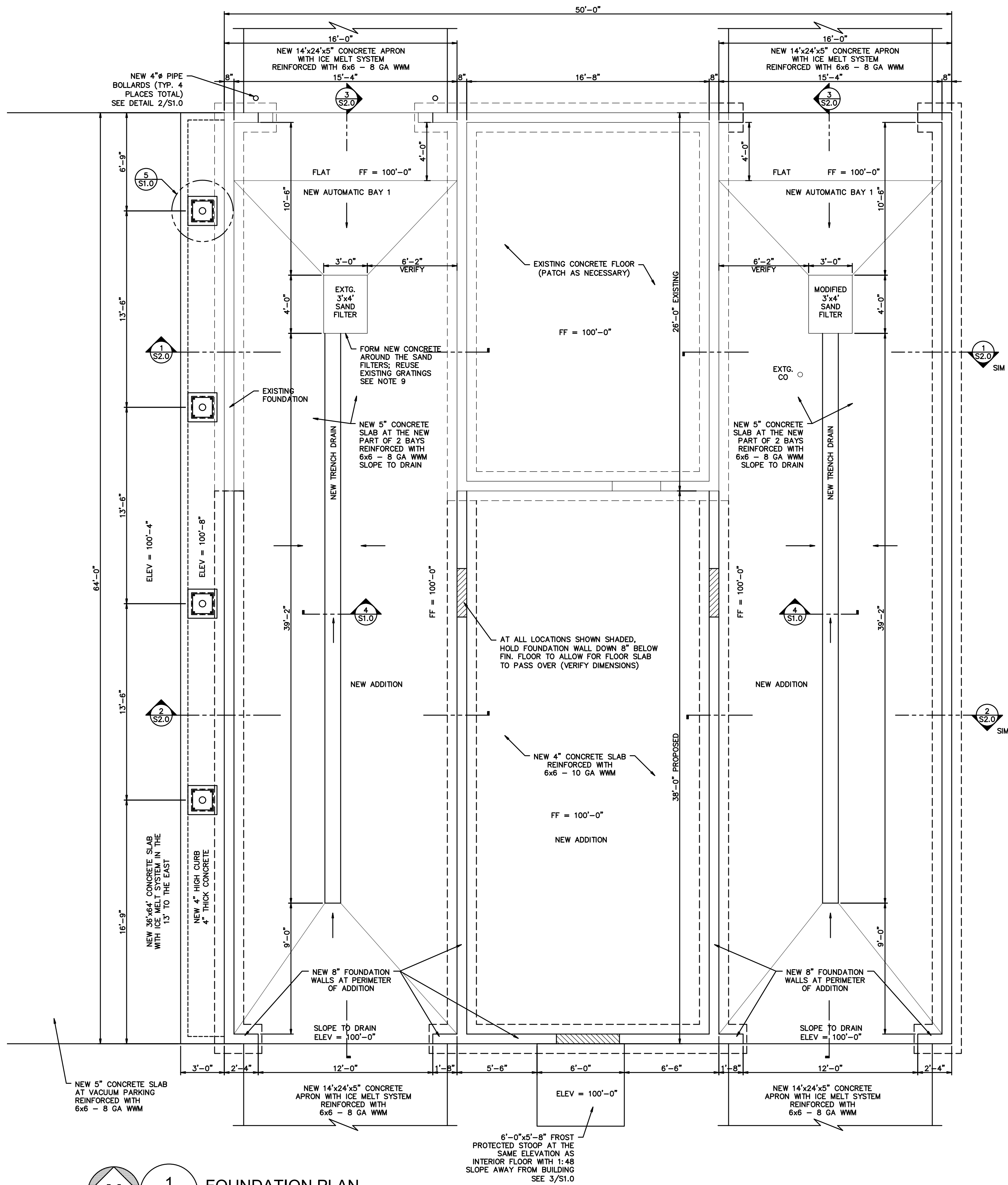
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EQUIPMENT PLAN

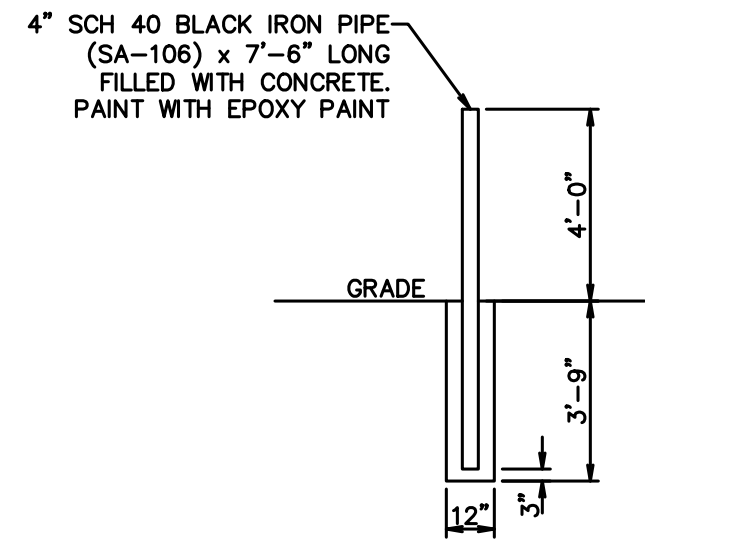
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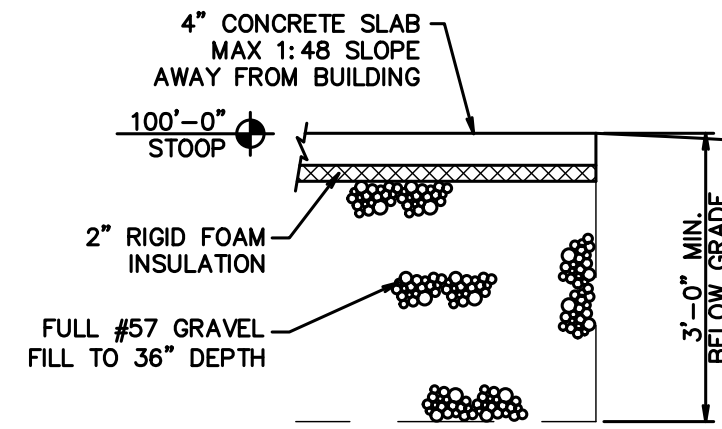
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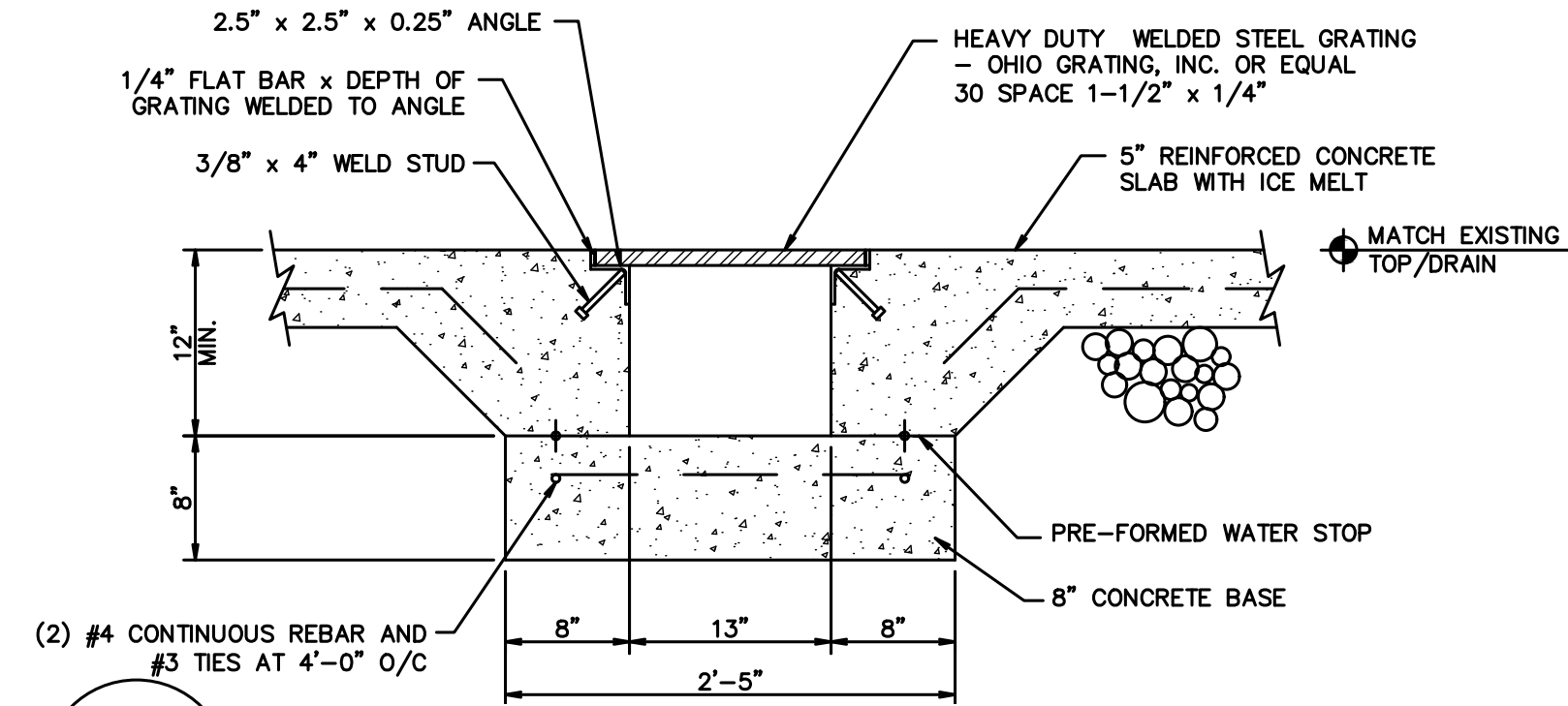
1
S1.0
FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



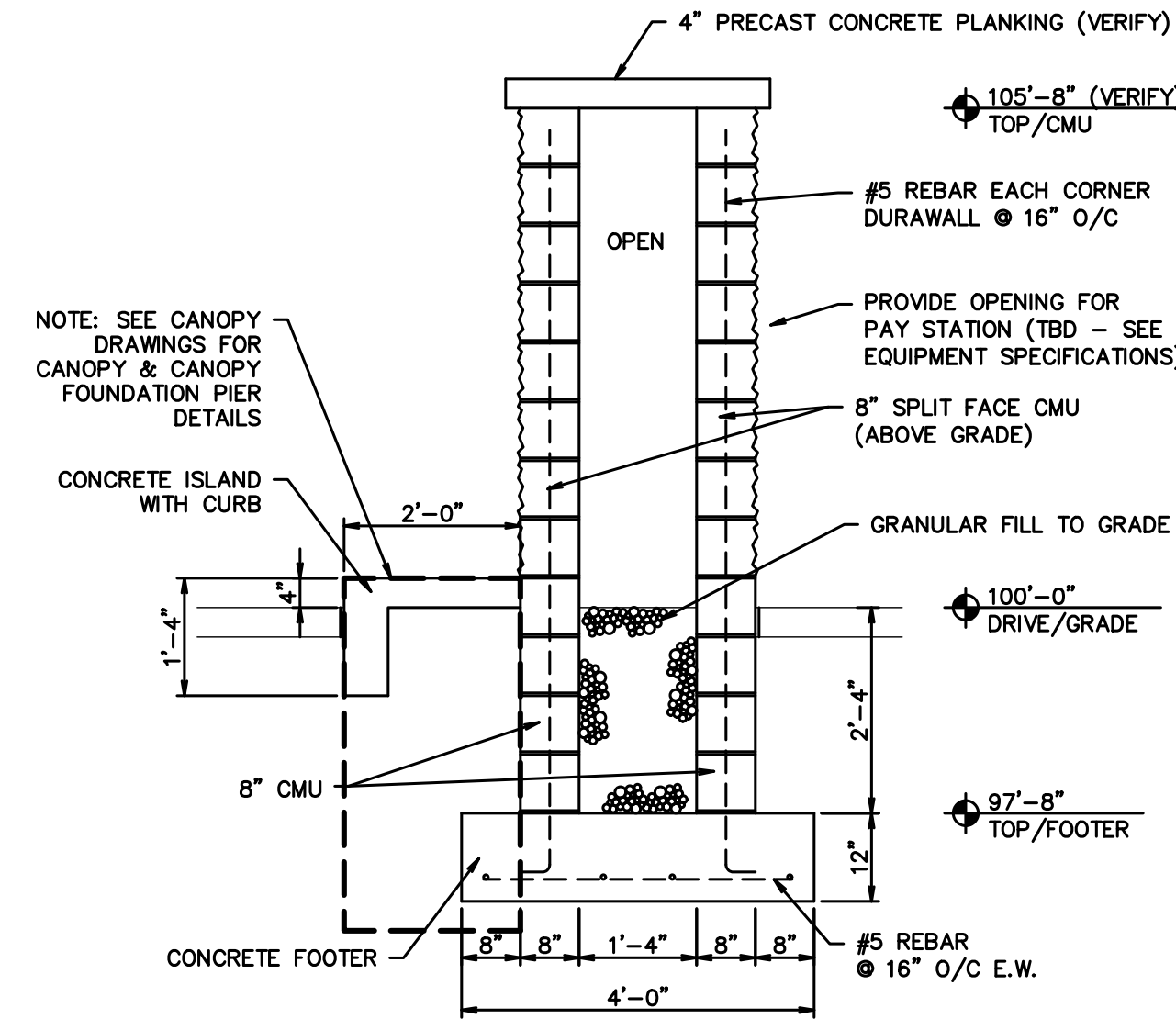
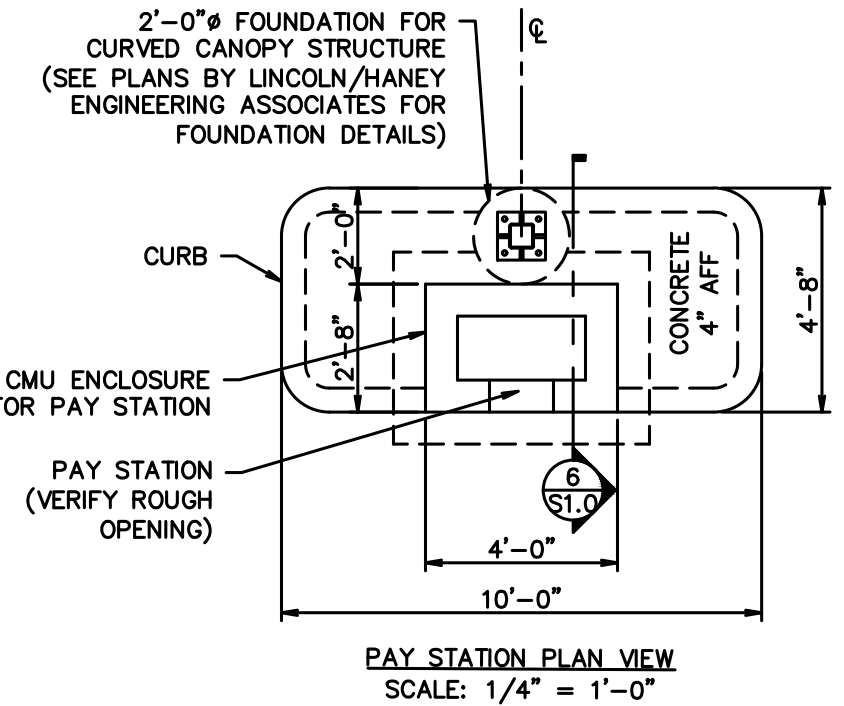
2
S1.0
BOLLARD DETAIL
SCALE: 1/4" = 1'-0"
TYPICAL (4) PLACES.



3
S1.0
FROSTPROOF STOOP DETAIL
SCALE: 1/2" = 1'-0"
TYP. (ONE) PLACES AT WALK DOOR.



4
S1.0
TRENCH DRAIN DETAIL
SCALE: 1" = 1'-0"
SLOPE TO SAND FILTER 1/10 PER 12" (MIN.);
24" DEEP MAX.



5
S1.0
VACUUM PEDESTAL FOUNDATION DETAIL
SCALE: 1/2" = 1'-0"
TYPICAL (4) PLACES.

6
S1.0
PAY STATION DETAIL
SCALE: 1/2" = 1'-0"
LOCATED NORTH OF THE BUILDING, SEE SITE PLAN.
FIELD VERIFY EXACT LOCATION.

FOUNDATION NOTES:

- FOOTERS HAVE BEEN DESIGNED BASED ON A PRESUMPTIVE SOIL BEARING CAPACITY OF 1,500 PSF, BASED ON TYPE CL (CLAY) SOIL. IT SHALL BE THE RESPONSIBILITY OF THE OWNER TO CONFIRM THE EXISTING SOIL TYPE AND TO NOTIFY THE ENGINEER IF THE SOIL IS OTHER THAN A CLAY TYPE SOIL. ANY UNSTABLE OR ORGANIC SOILS SHALL BE REMOVED AND REPLACED WITH APPROPRIATE COMPACTED FILL.
- FOUNDATION TO EXTEND TO VIRGIN SOIL (OR ROCK). THE FOUNDATION SHALL PENETRATE THROUGH ANY TOP SOIL LEFT IN PLACE, CHAPTER 18. OBC.
- ALL REINFORCING BARS SHALL CONFORM TO ASTM A615. FY = 60,000 PSI GRADE 60. (CHAPTER 19. OBC)
- ALL REINFORCING BAR LAPS SHALL BE EQUIVALENT TO 36 BAR DIAMETERS.
- ALL REINFORCING BAR BENDS SHALL COMPLY WITH CRSI STANDARDS.
- FOOTING CONCRETE SHALL BE 3,000 PSI MINIMUM, 28 DAYS.
- INTERIOR CONCRETE FLOORS SHALL BE 3,500 PSI CONCRETE MINIMUM, 28 DAYS, TROWEL FINISH. SLOPE FLOOR TO FLOOR DRAINS. EXTERIOR CONCRETE WALKS AND APPROACHES SHALL BE 4,000 PSI MINIMUM, 28 DAYS, BROOM FINISH. EXTERIOR CONCRETE TO HAVE 6% AIR ENTRAINMENT.
- CONTRACTOR TO VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS.
- MATCH PATTERN OF GRATING SUPPORT AT EXISTING SAND FILTER.

Michael A. Lehman, P.E.
M. A. Lehman Professional Engineering, LLC
15057 ARNOLD ROAD
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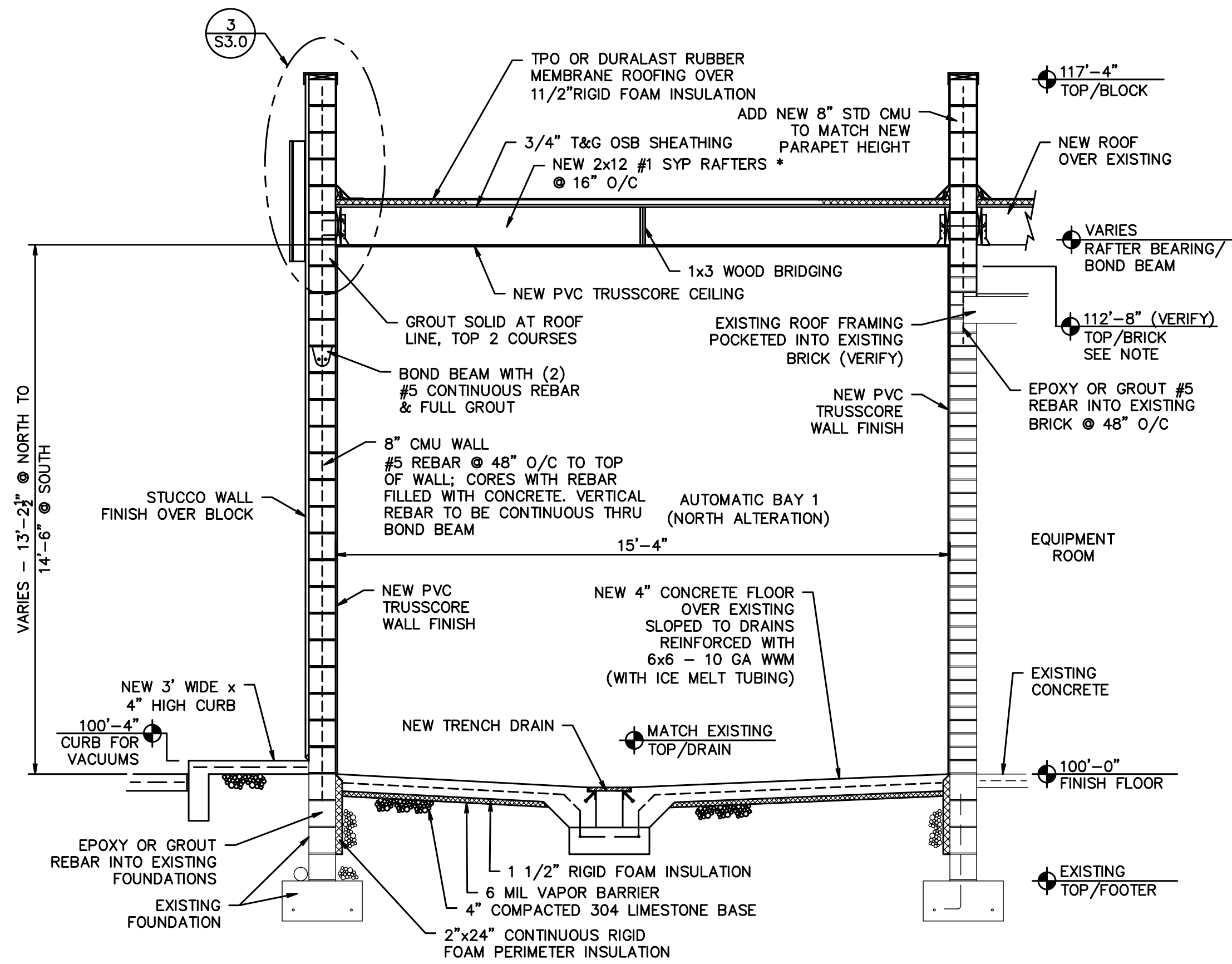
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Sheet:		

S1.0

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FOUNDATION PLAN



1
S2.0

TRANSVERSE SECTION @ AUTOMATIC BAY 1 - ALTERATION

SCALE: 3/8" = 1'-0"

TYPICAL AT THE ALTERATION AREA BAY 1 (NORTH END);
OPPOSITE/SIMILAR AT BAY 2.

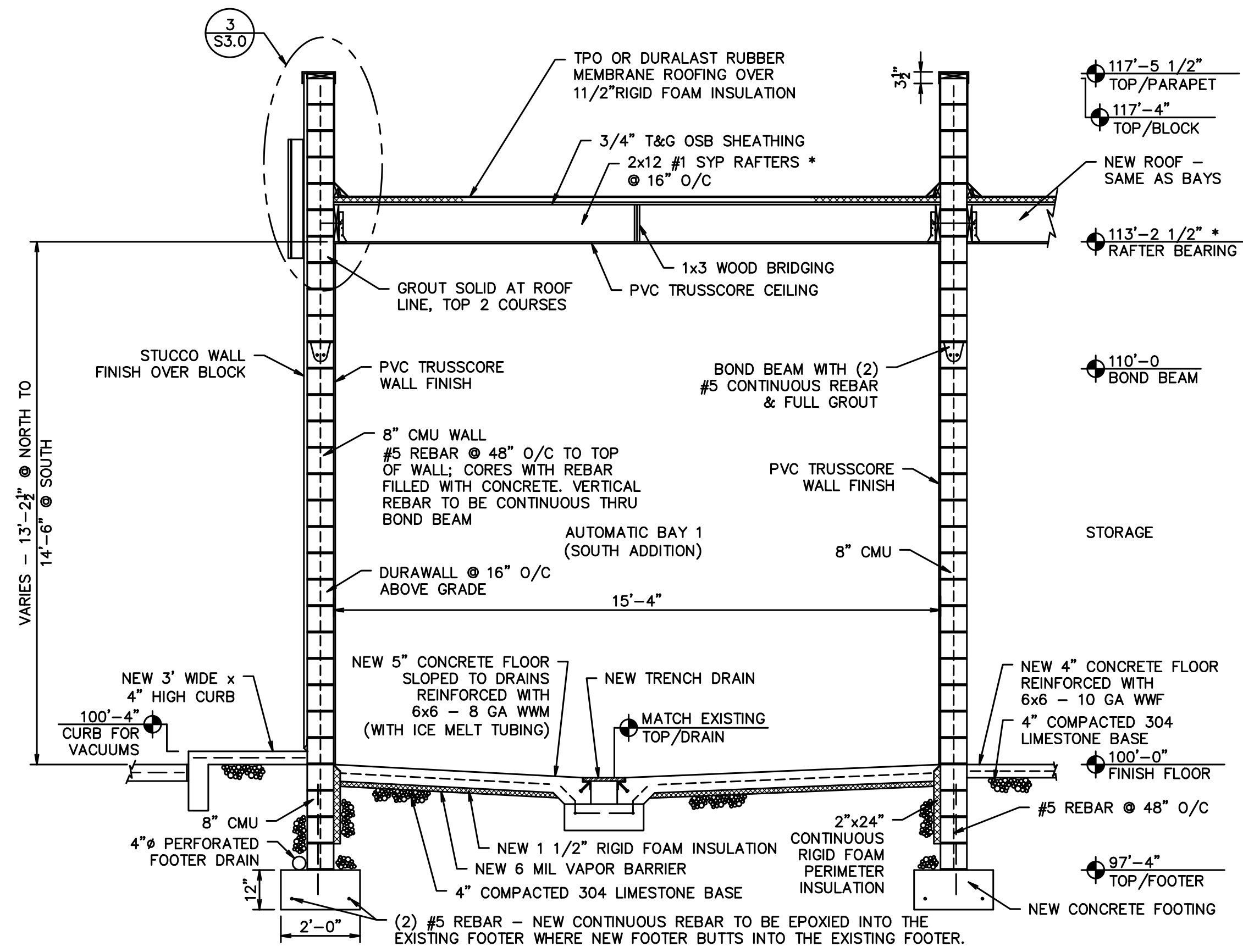
LDT = LARGE DIAMETER TAPCON (CONCRETE ANCHOR)

PROVIDE VERTICAL (CONTROL) EXPANSION JOINTS AT
20' MAX INTERVALS. ALL MORTAR SHALL BE TYPE "M".

EXISTING BRICK NOTE:
THE EXISTING BRICK WALL ON THE MECHANICAL ROOM IS TO BE
TAKEN DOWN TO THE TOP FULL COURSE LAID FLAT (APPROX. 12'-8"
AFF). PROVIDE TEMPORARY SUPPORT FOR THE MECHANICAL ROOM
RAFTERS AND REMOVE ANY BRICKS INSTALLED ON A SLOPE OR
CUT AT A SLOPE.

* RAFTERS / LEDGER TO BE INSTALLED SLOPING 1/4:12
TO A 13'-2-1/2" RAFTER BEARING AT THE BACK
(NORTH) OF THE AUTOMATIC BAYS.

SEE DRAWING S3.0 FOR
STUCCO AND TRUSSCORE DETAILS



2
S2.0

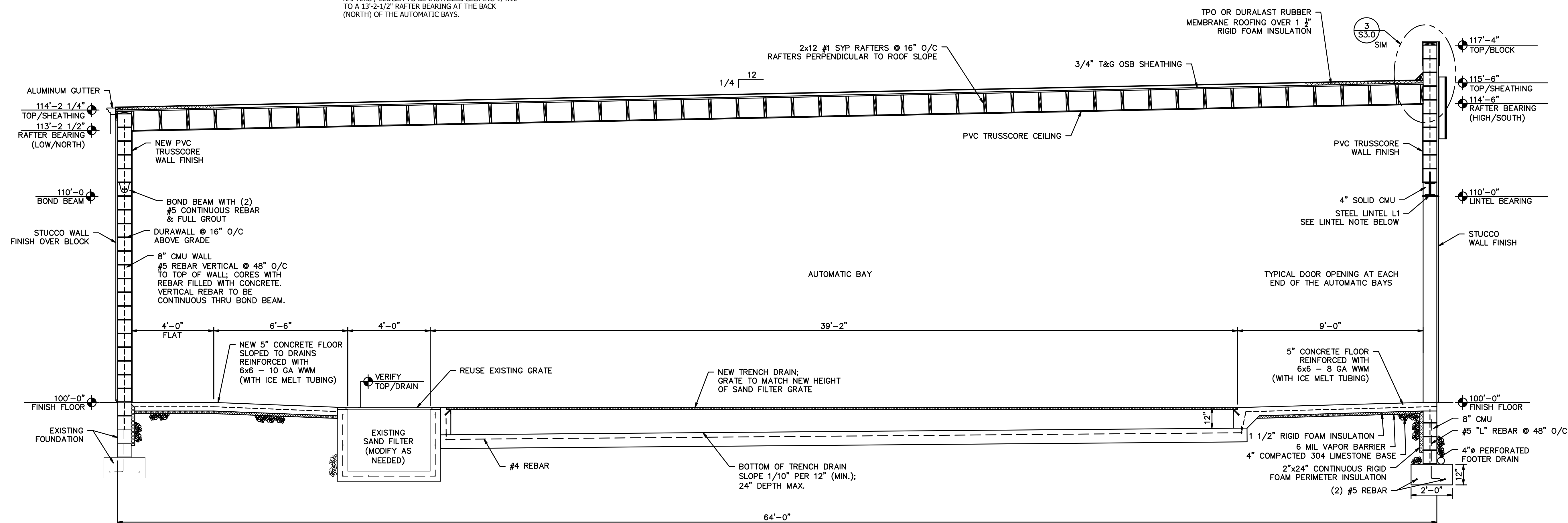
TRANSVERSE SECTION @ AUTOMATIC BAY 1 - ADDITION

SCALE: 3/8" = 1'-0"

TYPICAL AT THE ADDITION BAY 1 (SOUTH END);
OPPOSITE AT BAY 2.

LDT = LARGE DIAMETER TAPCON (CONCRETE ANCHOR)

* RAFTERS / LEDGER TO BE INSTALLED SLOPING 1/4:12
TO A 13'-2-1/2" RAFTER BEARING AT THE BACK
(NORTH) OF THE AUTOMATIC BAYS.



3
S2.0

LONGITUDINAL SECTION - AUTOMATIC BAY

SCALE: 3/8" = 1'-0"

LINTEL NOTE:
L1 - W8x10 WITH 5/16" x 7-1/4" BOTTOM PLATE TO SUPPORT MASONRY ABOVE
AND 1/2" DIA x 6" LONG GALV STEEL STUD BOLTS AT 24" O/C FOR MASONRY
ANCHORING.

- STEEL COMPONENTS TO BE GALVANIZED

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CARWASH ALTERATION / ADDITION

EPIC CASCADES CAR WASH

3006 LINCOLN WAY EAST

MASSILLON, OHIO 44646

1" = ACTUAL

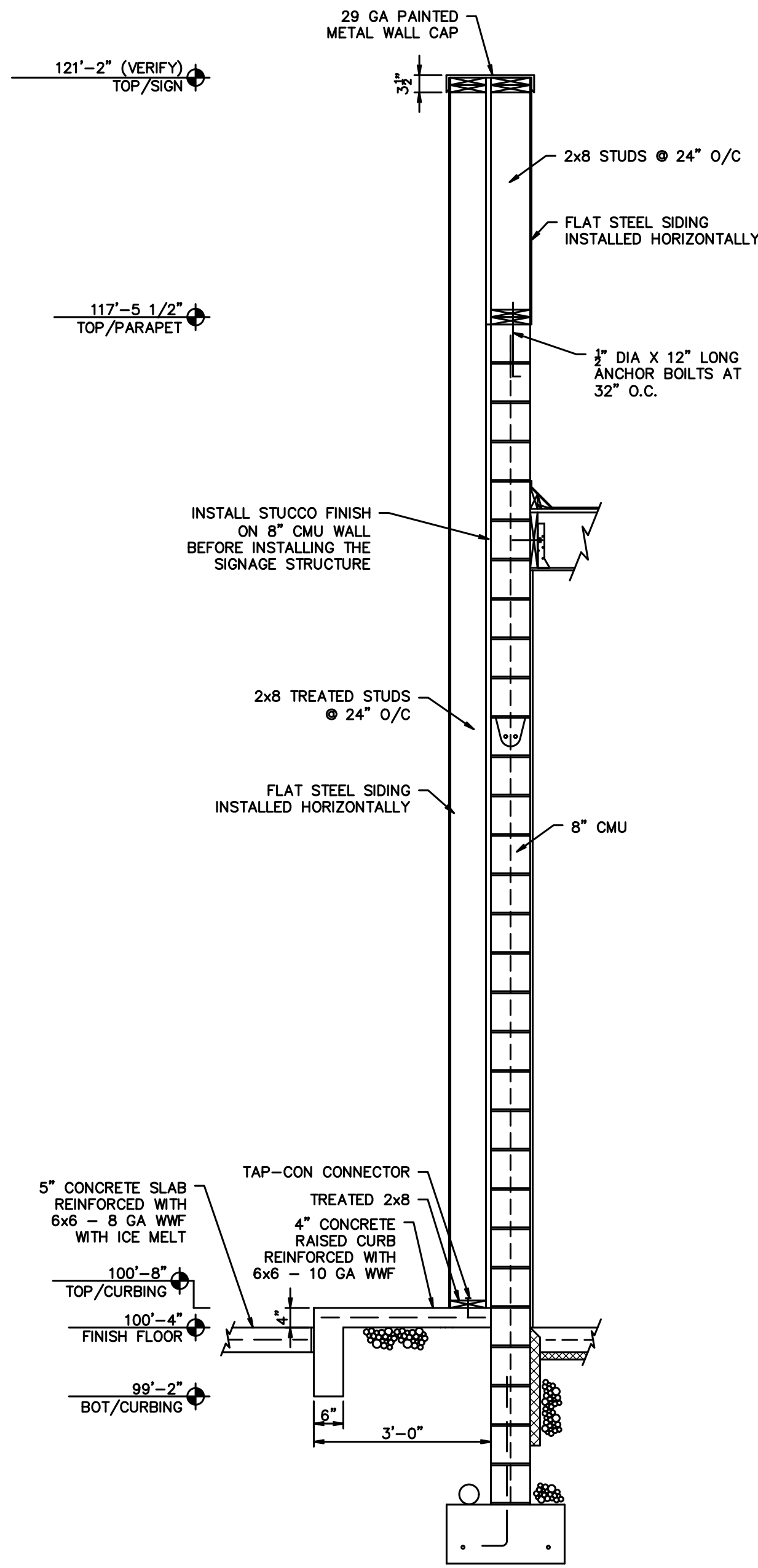
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ALL LABELED SCALES.

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Drawn By:		TAC	
Checked By:		MAL	
Job:		2546	
Sheet:			

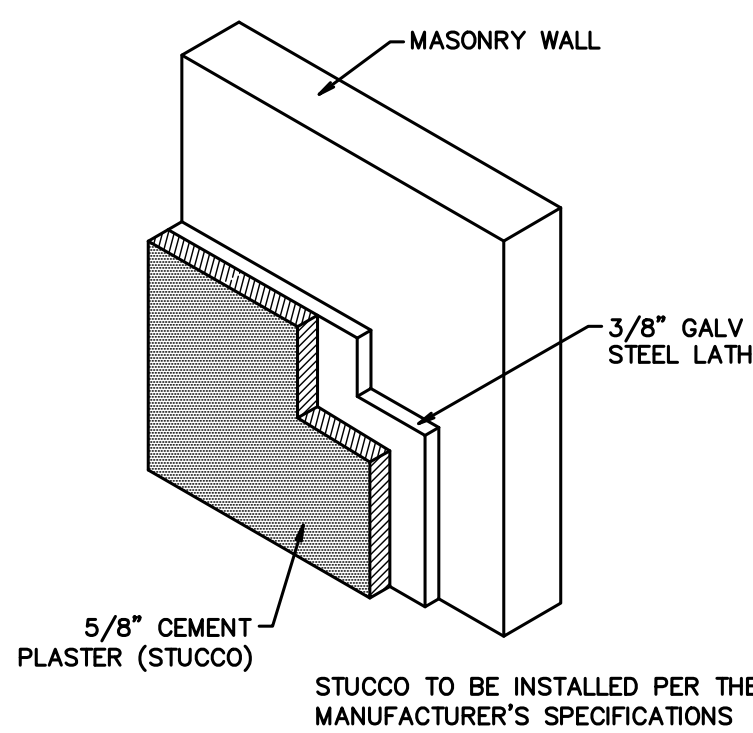
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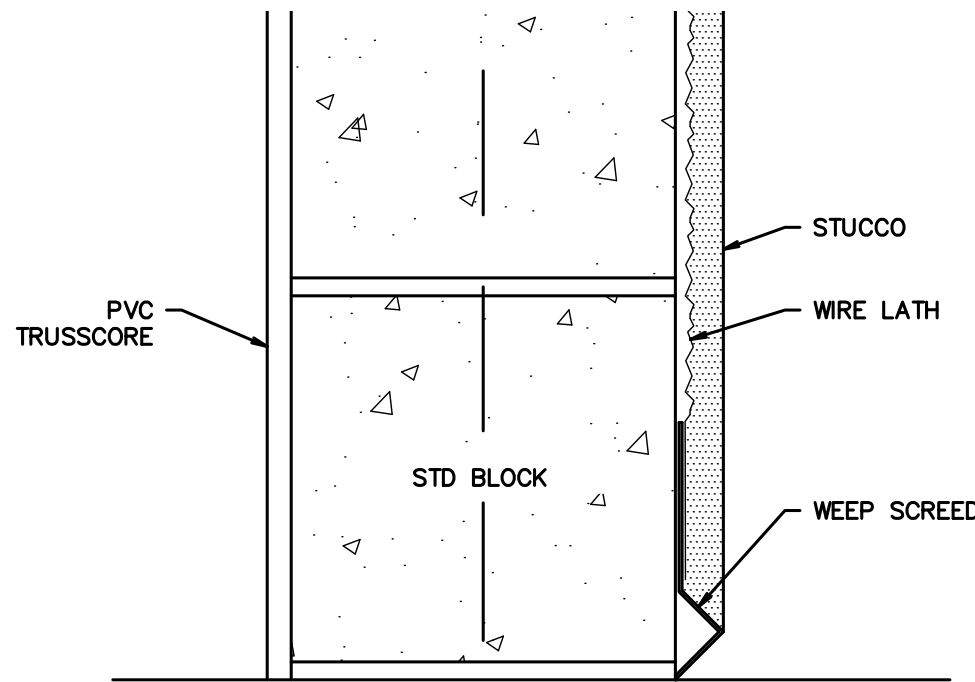
SECTIONS



1
S3.0 SECTION @ WEST SIGNAGE STRUCTURE
SCALE: 1/2" = 1'-0"
TYPICAL AT THE SIGNAGE STRUCTURE ON THE WEST SIDE; SIMILAR ON THE SOUTH SIDE OF THE ADDITION



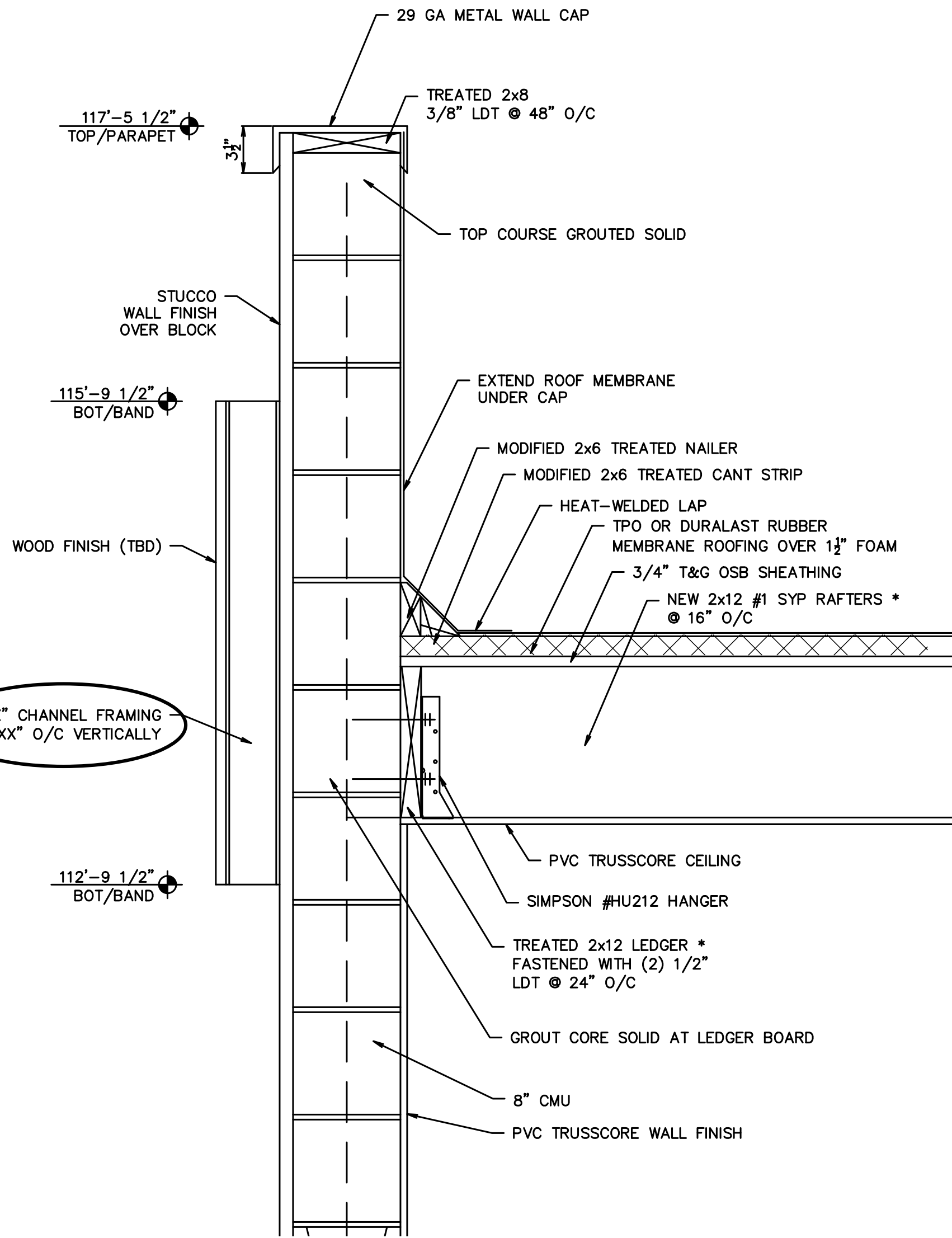
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S3.0 STUCCO DETAIL
SCALE: NONE



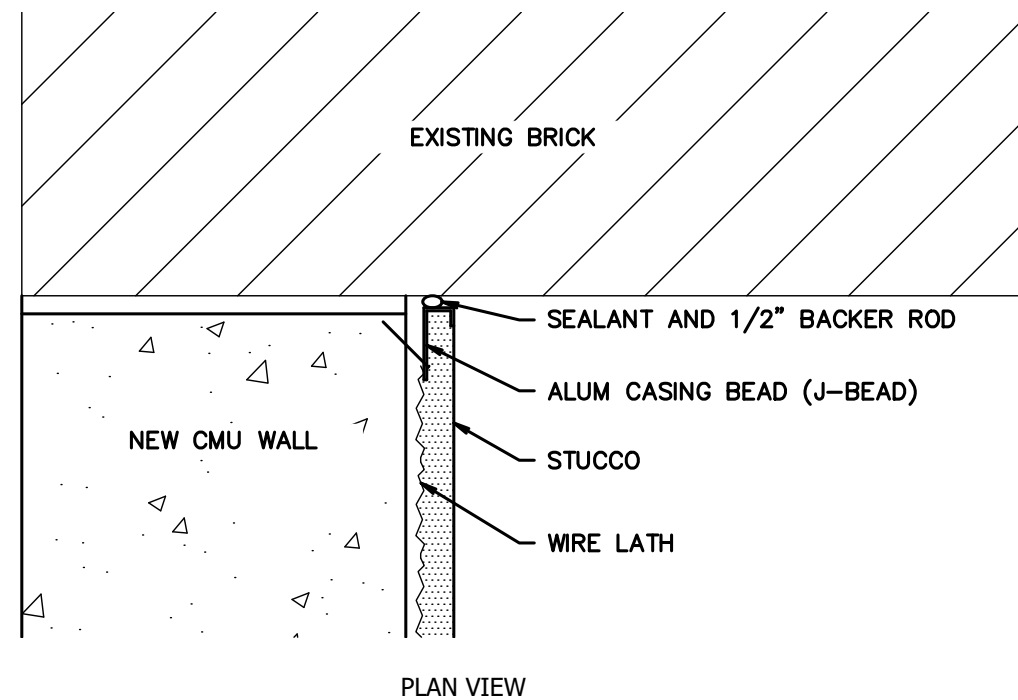
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S3.0 STUCCO TRANSITION DETAIL
SCALE: NONE
TYPICAL TRANSITION AT THE BOTTOM OF THE STUCCO.

MAL?

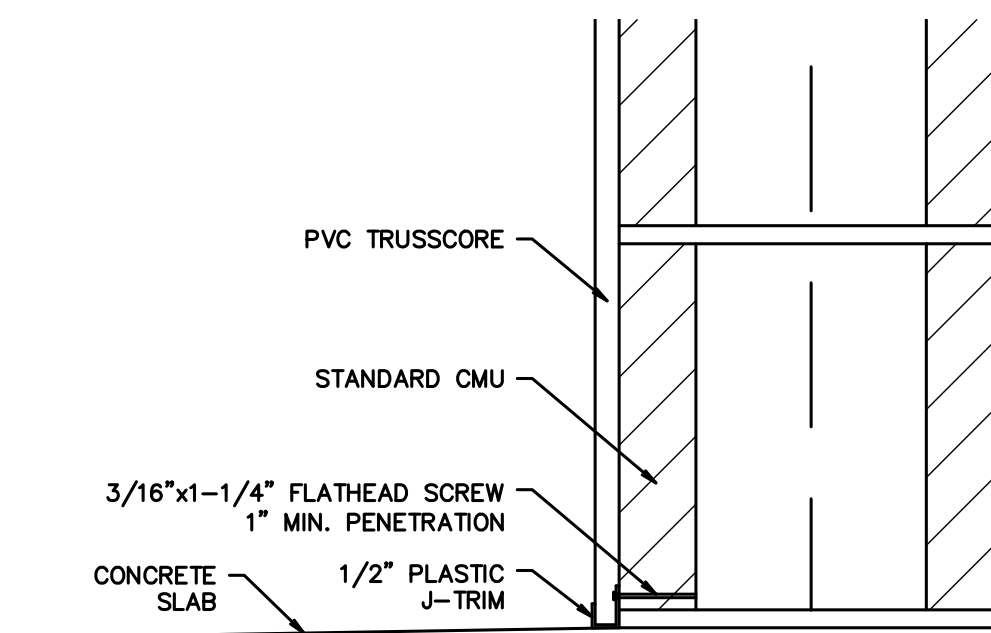
4" "Z" CHANNEL FRAMING
SET XX" O/C VERTICALLY



3
S3.0 PARAPET DETAIL
SCALE: 1-1/2" = 1'-0"
LDT = LARGE DIAMETER TAPCON (CONCRETE ANCHOR)
* RAFTERS / LEDGER TO BE INSTALLED SLOPING 1/4":12 TO A 13'-2-1/2" RAFTER BEARING AT THE BACK (NORTH) OF THE AUTOMATIC BAYS.



7
S3.0 STUCCO EXPANSION JOINT DETAIL
SCALE: NONE
TYPICAL WHERE THE NEW WALL MEETS THE EXISTING BRICK.



8
S3.0 TRUSSCORE WALL DETAIL
SCALE: NONE
TRUSSCORE NOTES:
• INSTALL WALL PANELS IN A VERTICAL ORIENTATION TO ALLOW FOR THE BEST POSSIBLE DRAINAGE.
• APPLY A SMALL BEAD OF SILICONE, APPROXIMATELY THE THICKNESS OF A STRING OF YARN, ALONG THE TONGUE OF THE PANEL AND INSERT THE TONGUE INTO THE GROOVE OF THE PREVIOUS PANEL. PRESS THE PANELS FIRMLY TOGETHER TO ENSURE A PROPER CONNECTION AND WIPE AWAY ANY EXCESS SILICONE.
• IF YOU ARE USING J-TRIM AT THE BOTTOM OF YOUR WALL, YOU MUST DRILL DRAINAGE HOLES IN THE BOTTOM OF THE J-TRIM EVERY 16" MAX.

Michael A. Lehman, P.E.
M. A. Lehman Professional Engineering, LLC
15057 ARNOLD ROAD
DALTON, OHIO 44618
PH (330) 465-1387
FX: (330) 828-8537

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CARWASH ALTERATION / ADDITION
EPIC CASCADES CAR WASH
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1" = ACTUAL
IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES.

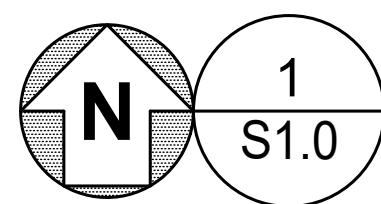
SUBMISSIONS & REVISIONS		Date
Mark	Revisions	
1	REVISED AND REDRAWN PER OWNER'S REQUEST.	06/29/26

Date: 07/07/2025
Scale: AS NOTED
Drawn By: TAC
Checked By: MAL
Job: 2546
Sheet:

S3.0

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DETAILS



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

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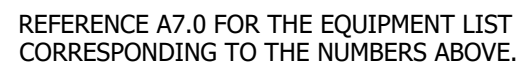
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MEASURE ONE INCH (1") EXACTLY ,
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ALL LABELED SCALES.

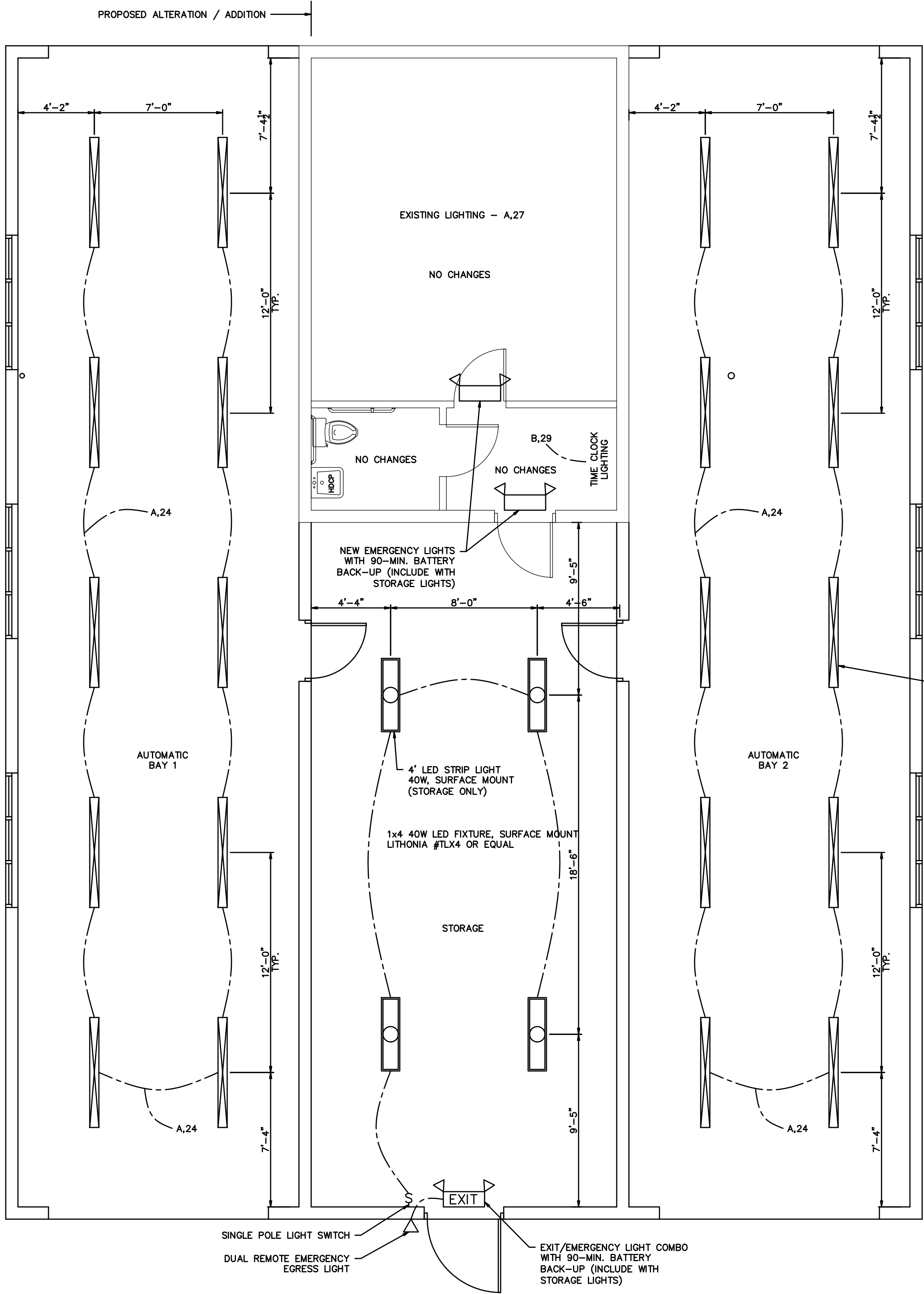
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M. A. Lehman Professional Engineering, LLC
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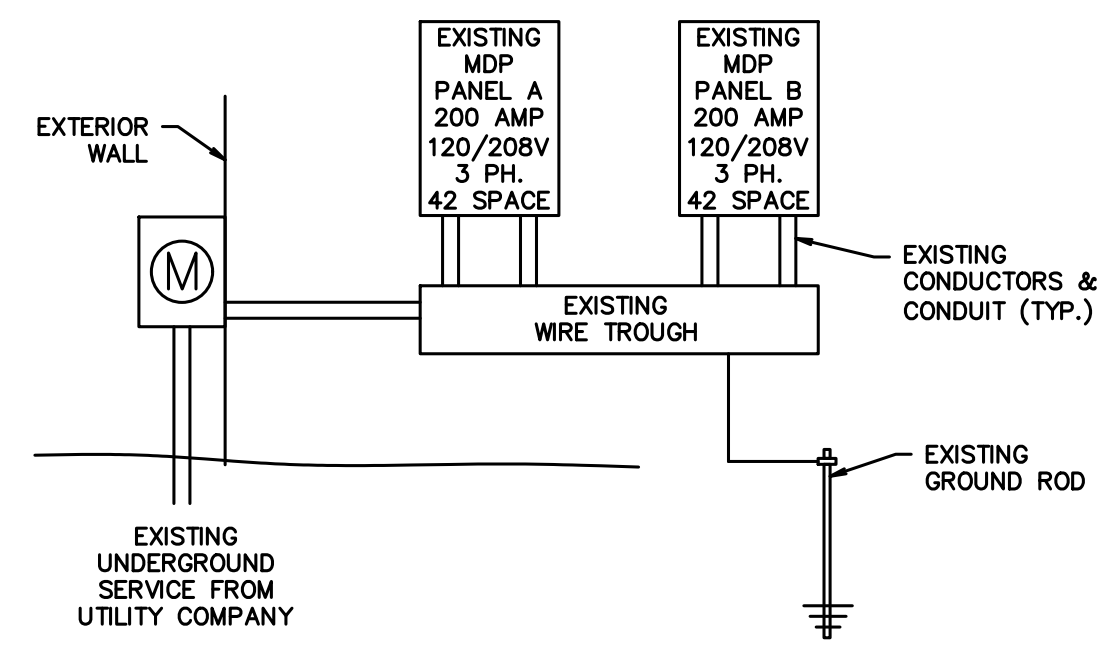
ROOF FRAMING PLAN





1 LIGHTING PLAN
SCALE: 1/4" = 1'-0"
NOTE: LIGHTING FOR THE VACUUMS ON THE WEST SIDE WILL BE PROVIDED BY THE CANOPY BOOM ON EACH VACUUM (SEE E1.0).

TSS LED T 6' TUBE LIGHT
IP67 WATERPROOF
40W 5000 LUMENS
(TYPICAL AT WASH BAYS)



2 RISER DIAGRAM
SCALE: NONE
NOTE: THIS ALTERATION DOES NOT AFFECT THE MAXIMUM AVAILABLE FAULT CURRENT.

PANEL A SCHEDULE120/208V, 4 WIRE-200 AMP, 42 SPACE, 3 PHASE-EXISTING													
SPACE	LOAD	VA	BRKR	WIRE	CNDT	CNDT	WIRE	BRKR	VA	LOAD	SPACE		
1											2		
NEW 3	25-HP PUMP (SIDE) #4A	24469	100	3	1"	1"	3	100	24469	#5A 25-HP PUMP (TOP)	4	NEW	
5											6		
7											8		
NEW 9	DRYER MOTOR 15-HP #57-1A	13674	50	8	1"	1"	8	50	13674	#57-2A DRYER MOTOR 15-HP	10	NEW	
11											12		
13											14		
NEW 15	DRYER MOTOR 15-HP #57-3A	13674	50	8	1"	3/4"	10	30	7557	#1A 360-I CONTROL PANEL	16	NEW	
17											18		
19											20		
NEW 21	SPOT FREE R.P. PUMP #49A	6770	25	10	1/2"	3/4"	10	30	3728	AIR COMPRESSOR	22	EXTG	
23						1/2"	12	20	960	LIGHTING -BAYS, STORAGE	24	NEW	
NEW 25	VACUUM #67-1	1920	25	10	1/2"	1/2"	10	25	1920	#67-2 VACUUM	26	NEW	
EXTG 27	EQUIP. RM. LTS & RECPT.	800	20	12	1/2"	1/2"	12	20	300	SUPER WASH SIGN	28	EXTG	
29	OPEN									OPEN	30		
31	OPEN									OPEN	32		
33	OPEN									OPEN	34		
35	OPEN									OPEN	36		
37	OPEN									OPEN	38		
39	OPEN									OPEN	40		
41	OPEN									OPEN	42		

* THE FOLLOWING EQUIPMENT WILL NOT RUN AT THE SAME TIME - TOP & SIDE PUMPS, SPOT FREE SYSTEM, AND DRYERS. THE PUMPS ARE THE LARGEST LOAD AND WILL BE COUNTED IN THE DEMAND LOAD AND THE OTHERS WILL NOT.

EQUIPMENT BREAKERS TO BE VERIFIED WITH THE SUPPLIER PRIOR TO ORDERING ELECTRICAL EQUIPMENT.

LEGEND
NEW = NEW EQUIPMENT/ITEMS
EXTG = EXISTING EQUIPMENT/ITEMS (LOADS ARE ESTIMATED)

NOTE: EXISTING CIRCUITS HAVE BEEN RELOCATED TO BETTER BALANCE THE PANEL LOADS.

ELECTRICAL LOAD SUMMARY			
LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAND FACTOR N.E.C.	DEMAND LOAD (VA)
MISC.	5,788	100%	5,788
EQUIPMENT	108,127	100% *	60,335
TOTAL	113,915		66,123

DEMAND LOAD = 66,123 VA / (208 x 1.73) = 183.8 AMPS

PANEL B SCHEDULE120/208V, 4 WIRE-200 AMP, 42 SPACE, 3 PHASE-EXISTING													
SPACE	LOAD	VA	BRKR	WIRE	CNDT	CNDT	WIRE	BRKR	VA	LOAD	SPACE		
1											2		
NEW 3	25-HP PUMP (SIDE) #4B	24469	100	3	1"	1"	3	100	24469	#5B 25-HP PUMP (TOP)	4	NEW	
5											6		
7											8		
NEW 9	DRYER MOTOR 15-HP #57-1B	13674	50	8	1"	1"	8	50	13674	#57-2B DRYER MOTOR 15-HP	10	NEW	
11											12		
13											14		
NEW 15	DRYER MOTOR 15-HP #57-3B	13674	50	8	1"	3/4"	10	30	7557	#1B 360-I CONTROL PANEL	16	NEW	
17											18		
19						1/2"	12	20	1440	FLOOR HEAT DE-ICING BOILER	20	EXTG	
NEW 21	SPOT FREE R.P. PUMP #49B	6770	25	10	1/2"	1/2"	12	20	1000	RESTROOM WALL HEATER	22	EXTG	
23						1/2"	12	20	360	EXHAUST FAN	24	EXTG	
NEW 25	VACUUM #67-3	1920	25	10	1/2"	1/2"	10	25	1920	#67-4 VACUUM	26	NEW	
NEW 27	AUTO-CASHIER (POS) #62	1200	20	12	1/2"	1/2"	12	20	360	WATER SOFTENERS RECPT.	28	EXTG	
EXTG 29	TIME CLOCK LIGHTING	100	20	12	1/2"	1/2"	12	20	180	GFI RECEPTACLE	30	EXTG	
31	RECEPTS - STORAGE	720	20	12	1/2"					OPEN	32		
33	OPEN									OPEN	34		
35	OPEN									OPEN	36		
37	OPEN									OPEN	38		
39	OPEN									OPEN	40		
41	OPEN									OPEN	42		

* THE FOLLOWING EQUIPMENT WILL NOT RUN AT THE SAME TIME - TOP & SIDE PUMPS, SPOT FREE SYSTEM, AND DRYERS. THE PUMPS ARE THE LARGEST LOAD AND WILL BE COUNTED IN THE DEMAND LOAD AND THE OTHERS WILL NOT.

ELECTRICAL LOAD SUMMARY			
LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAND FACTOR N.E.C.	DEMAND LOAD (VA)
MISC.	6,560	100%	6,560
EQUIPMENT	106,927	100% *	59,135
TOTAL	113,487		65,695

DEMAND LOAD = 65,695 VA / (208 x 1.73) = 182.6 AMPS

Michael A. Lehman, P.E.

M. A. Lehman Professional Engineering, LLC

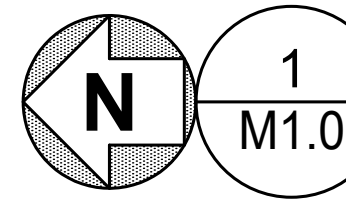
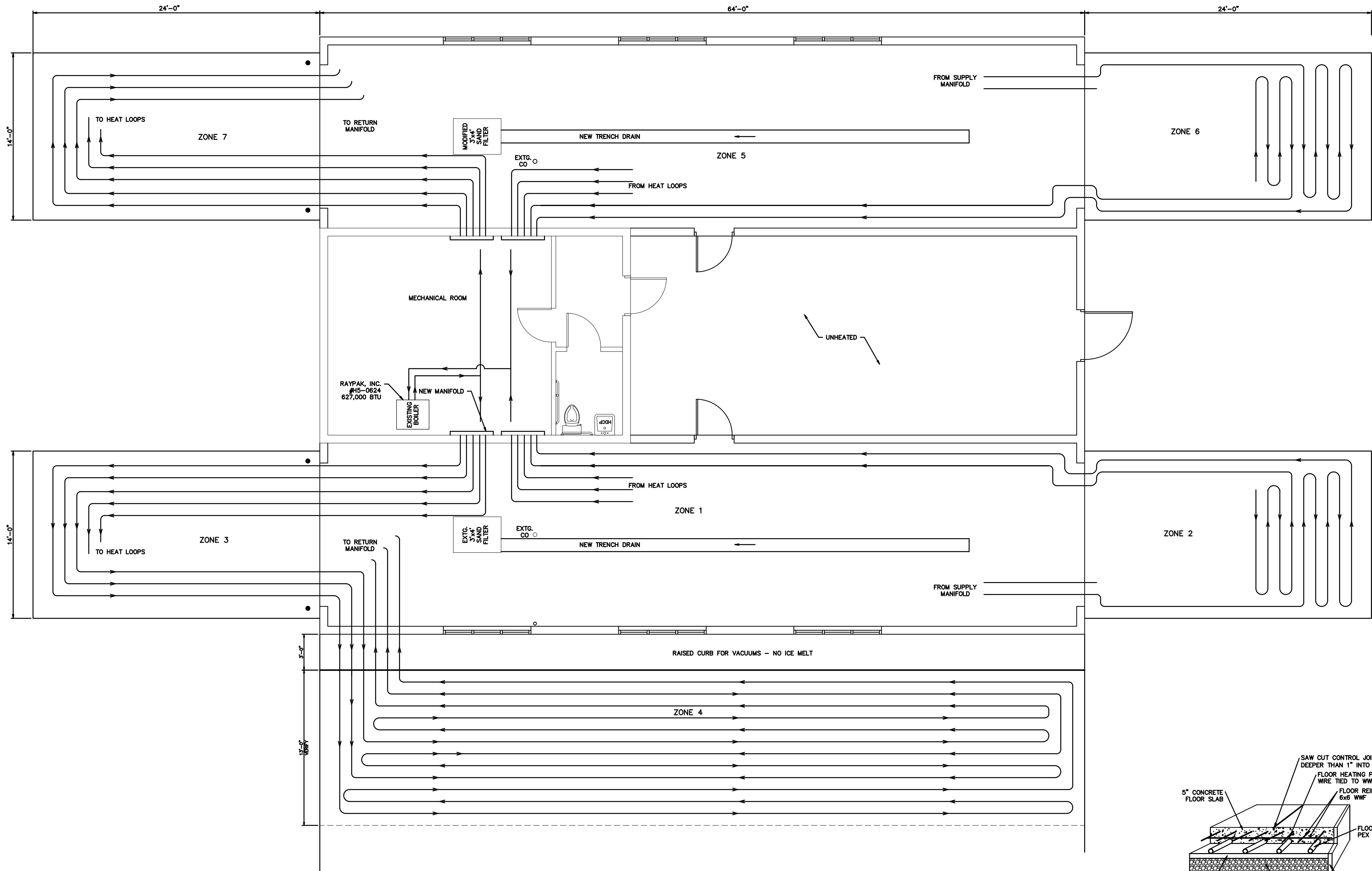
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DATE: 06/29/26
REVISIONS:
1. REVISED AND REDRAWN PER OWNER'S REQUEST.
DATE: 07/07/2025
SCALE: AS NOTED
DRAWN BY: TAC
CHECKED BY: MAL
JOB: 2546
SHEET: E2.0
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LIGHTING PLAN / RISER DIAGRAM & PANEL SCHEDULES



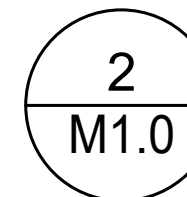
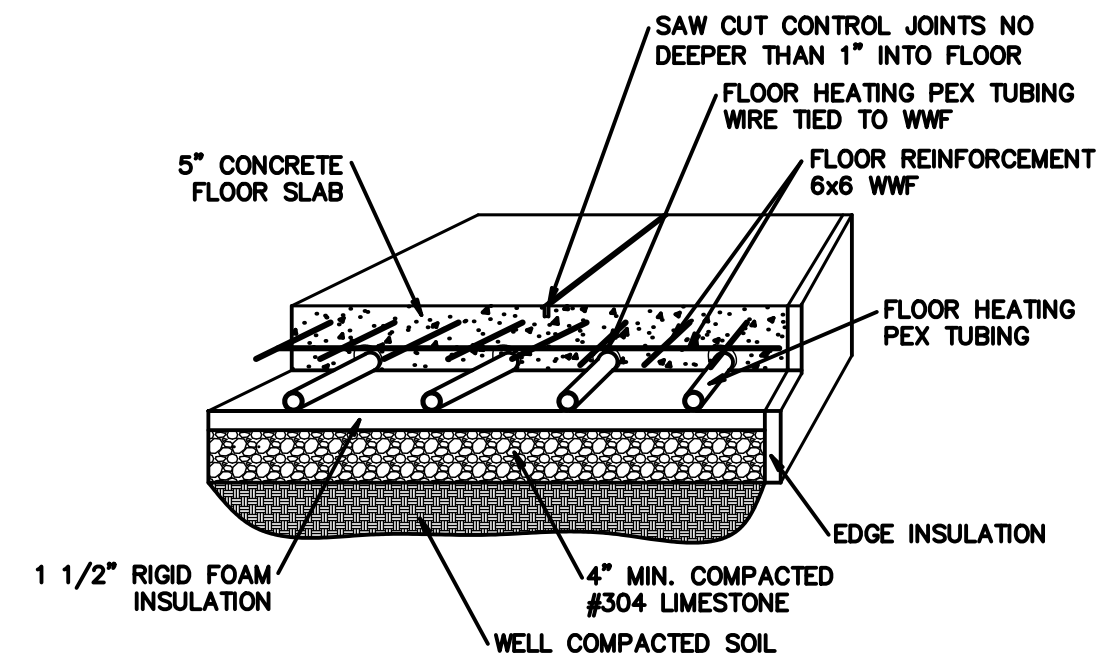
ICE MELTER PLAN
SCALE: 1/4" = 1'-0"

NOTE: THE ICE MELTER SYSTEM IS EXISTING.
THE PIPING FOR THE AUTOMATIC BAYS
& VACUUMING AREA IS NEW.

HEATING NOTES:

1. THIS DRAWING IS GENERAL IN NATURE AND IS INTENDED TO PROVIDE A COMPLETE, SAFE AND SATISFACTORY HEATING SYSTEM. ITEMS NOT SPECIFICALLY MENTIONED OR SHOWN, BUT NECESSARY FOR SUCH AN INSTALLATION SHALL BE PROVIDED.
2. THE HEATING EQUIPMENT IS EXISTING AND UNCHANGED.
3. EXHAUST FLUE SHALL CONFORM WITH THE REQUIREMENTS OF CHAPTER 8, OMC.

THIS PLAN IS ROTATED FROM THE OTHER PLANS.



SLAB DETAIL
SCALE: NONE

Michael A. Lehman, P.E.
M. A. Lehman Professional Engineering, LLC
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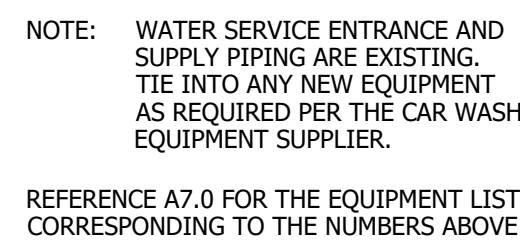
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ICE MELTER PLAN



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PLUMBING PLANS