

**ARCHITECT'S ADDENDUM**

Addendum Number: 03

Date: September 6, 2024

RE: Fort Zumwalt School District

Transportation Center

Prepared By: John Strassburger  
Cordogan Clark

CC Project No.: 224205

To: Prospective Bidders

Subject: Addendum No. 03 to the Construction Documents for the Fort Zumwalt School District Transportation Center

This Addendum forms a part of the Construction Documents and modifies the original Construction Documents, dated August 13, 2024. Acknowledge receipt of this Addendum in space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

THE FOLLOWING ITEMS ARE TO BE INCLUDED IN THE PROPOSAL.

**General Clarifications:**

N/A

**Bidder Questions with Answers:**

Q – The architectural floor plan and elevations do not show bollards at the (3) OH doors on the South elevation. However, there's a note on the elevations calling these out, but doesn't show the bollards. My question is, is the intent to match the bollard layout of the (3) OH doors on the North elevation? Or are bollards not required at the OH doors on the South elevation?

A – *Bollards are required at both the north and south elevations. The layout at the south elevation should be the same as the north elevation. See revised sheets this addendum.*

Q – Does the MUA SA Duct in the Service Bay need to follow 3.12, D. Is this considered exposed to public view? Or can this just be lined?

A – *Please bid it per the spec and provide a voluntary alternate as needed. All duct size changes (spiral vs rectangular) would require coordination with electrical / lighting etc.*

Q – Are there any specs for signage? The only place I see any is on A5.01. Please advise.

A – *Signage is Owner provided by a separate vendor,*

Q - Is the dumpster enclosure on detail A0.03 intended to be 12" split face materials or 12" smooth face materials. I assume it will be a colored CMU enclosure to match the building? Please clarify.

A – *Trash enclosure to be 12" split face color to match CMU-1*

Q - The column wraps at the (6) building shell canopy columns are noted to be composed of 4x4x8 smooth CMU Units (CMU 3). These units will not bond together as drawn without a lot of cut and plug pieces at the corners. Is it safe to assume we can use a standard 4" CMU backup at the columns and install a 4x8x4 (CMU 2) unit wrapping the backup CMU column? Please clarify.

A - *We take no exception to using a 4" CMU backup and CMU-2 veneer at the canopy columns.*

Q - Could the AISC requirements be waived for this project for qualified fabricators?

A - *Compliance of the fabricator and installer with AISC Quality Certification requirements is acceptable in lieu of participation.*

Q - Addendum #1 changes all steel in the wash bay to hot dipped galvanized, can they give a wide flange alternate to the 16K joists? Galvanizing the joist will be troublesome and costly in my opinion. As I see it that is the material between grid line 1 & 2. Looks to me like line 2 would not be galvanized since this bay ends at the masonry wall, please confirm.

A - *Provide galvanized steel as directed in addendum #1. Columns and girder truss at column line 2 will not need to be galvanized but joists bearing on girder truss at column line 2 from inside the wash bay will need to be hot dipped galvanized per addendum #1.*

Q - Is abuse board required on all walls 8' high like spec section 092900 states?

A - *Abuse resistant gyp. board is not required anywhere in the building. Remove from project scope.*

Q - What is to be quoted for ACT 2, manufacturer & tile not specified.

A - *Revise all ACT-2 references to be ACT-1.*

Q - Can it please be clarified whether WH-2 will be removed under alternate 2 as keyed note #11 on PF1.21 might imply, or whether this water heater will remain?

A - *WH-2 is removed under Alternate 2*

Q - Interior finishes are not called out in shop areas -Service Bays 140, Parts Storage 151, Wash Bay 152, and Compressor 153.

A - *Floor finish to be sealed concrete SC-1, wall finish to be PT-1, exposed structure, ducts, conduits, etc. to be painted PT-4.*

Q - A0.02 General Note #1 calls for sod at all non-paved / non-mulch areas. C3 shows sod per hatching on legend (limited to around the building). Which is correct?

A - *Revise General Note #1 on sheet A0.02 to read "Refer to Civil drawings for areas to receive sod".*

Q - When reviewing the specs for this project I see that they are requesting AWI Certification. While StoneTree meets/exceeds all the guidelines set forth by AWI, we are not a certified shop therefore will not be able to provide the labels. Please let me know if this is something the architect is willing to waive.

A - *The AWI Certification can be waived. However, the fabricator shall comply with item 1.5A of section 123523.13 and 1.6A of section 064116.*

Q - What is to be quoted for ACT; manufacturer & tile not specified.

A - *Per Material Finish Key on sheet A10.01 ceiling tile is to be HHF-197 "Fine Fissured" by CertainTeed.*

Q - A10.01 calls for T-3 in Shower Rooms. Elevations on A8.02 do not show tile. Please confirm finish for shower rooms including height, layout, etc.

A – *No wall tile in Shower Rooms, revise to be PT-1.*

Q - Are Panels L3 and L4 in the service bay area supposed to be recessed in the CMU wall or surface mounted?

A – *Surface mounted as indicated and shown on the panel schedules.*

Q - What size underground communication conduit for the communication backbone line from the road/utility provider location should be installed and should it stub up in the data closet 138?

A - *Provide 4" schedule 40 PVC from Salt River Road to Data Rm 138. Coordinate final location with utility provider and data rack location. Allow for (1) quazite pull box.*

Q - Verify that there is no requirement for dowel baskets at control joints.

A - *No dowel baskets are required.*

Q - Can you define the limits for planting the rain gardens? Plantings on bottom only and fescue sod on slopes? Plantings on bottom and slopes?

A - *Plantings on bottom only and fescue sod on slopes.*

Q - Can we use a safety spray "dryfog" for the ceilings in these bays in lieu of the Sher Cryl?

A – *A safety spray "dryfog" is acceptable in the maintenance bays. In the Wash Bay use the Sher Cryl.*

Q - A0.02 shows a Knox Box at only the north emergency access gate. C3 shows a Knox Box at the north emergency access gate and the west slide access gate. Which is correct?

A- *Slide gate would only need for the fire dept. to have the access code. See revised drawing this addendum.*

Q – On sheet S2.01 Foundation Plan note 5 states that the Geotechnical Engineer is to be retained by the contractor shouldn't this be by Owner?

A - *Revise Foundation Plan note 5 to read "... GEOTECHNICAL ENGINEER RETAINED BY OWNER"*

Q - Is mulch or pea-gravel required at the rain garden bottom?

A – *See revised Civil sheets this addendum.*

Q - Is slope protection required between the curb cuts and rain garden bottom? Is a forebay/rip-rap area required where storm sewer daylight to rain garden?

A - *See revised Civil sheets this addendum.*

Q - Is there a spacing requirement / mix ratio for the plants and plant sizes?

A - *See revised Civil sheets this addendum.*

Q - Can you define the requirements for the "Grass Filtration Strip?"

A - *See revised Civil sheets this addendum.*

Q - Is a detail available for the "3' Rock Strip for Infiltration" shown on C3? Need to know rock size / type, depth, fabric, etc.

A - *See revised Civil sheets this addendum*

Q – Ref. sheet A5.01. What type of fence is the mechanical enclosure going to be. It is not in the specs.

A – *The mechanical enclosure fencing is a decorative vinyl fence as specified in section 323119.13.*

Q – Ref. Sheet C8 and A0.03. What type of dumpster gate are they wanting, composite or the vinyl noted in the specs on section 323119.13 2.4 – A1.

A – *Dumpster gate is to be composite lumber slats on steel frame per detail 2/A0.03 and specification 062013.*

Q – Ref. Sheet C8. Typical swing gate detail is a pipe gate. This is not indicated on plans. Are they considering this to be the emergency access gate on sheet A0.02. If so the site will not be secure since the rest of the fence is 8'-0"

A – *Emergency access gate is to be an 18'-0" wide by 8'-0" tall single swing chainlink fence gate to match the rest of the fencing.*

Q - I don't see where section 18/S4.01 is to be applied. I don't see it cut on plan views. Can you ask where it is required?

A – *Detail 18/S4.01 is a typical detail demonstrating that the top of the wall is required to be braced while still allowing for movement of the members passing through the wall plane. At the mezzanine above the Parts Storage room there are (3) or (4) wide flanged beams that pass over a wall that needs to be braced. The wide flange would be independent of the wall below (not bearing) but bracing the top of the wall with the continuous angles. At the high roof over the wash, there is a possibility the joist bottom chord does not terminate prior to passing through the CMU wall. So, we would need a similar detail along this plane as well. The CMU extends all the way up in both cases but use the joists/wide flange to help brace the wall. We can make sure this is well coordinated during the shop drawing phase.*

Q - The drawings show post sizing to be 2" lines and 2 1/2" terminals, but this is not typical for an 8' tall fence. I would typically quote a 2 1/2" line post and 3" terminal. I also didn't see anything listed in the specs regarding this. Also, is there a specific post size for gates?

A – *We agree with the increased post sizes. Use 6" post for gates.*

Q - Specs call for framework and posts to be schedule 40 would ss40 be acceptable for posts and ss20 for rail?

A – *Yes ss40 for posts and ss20 for rails is acceptable.*

Q - Plans reference an emergency access gate near the staff parking spaces. What size is this gate? Is it a single or double drive gate? Also, is this the gate that is referenced on page 13 as the "typical swing gate" made out of 3 1/2" diameter pipe or is that gate in reference to something else?

A - *18'-0" wide single swing gate*

Q - Plans show brace rail to be 2" pipe would 1 5/8" be acceptable?

A - *Yes*

#### **Clarifications to the Specifications:**

##### 1. Specification Section 072100– Thermal Insulation

- a. Substitution request for Enverge OnePass HFO Spray Foam insulation is rejected. Spray-foam insulation included in the specifications is intended to fill small misc. voids not as building insulation see insulation schedule.

2. Specification Section 074213.13 – Formed Metal Wall Panels
  - a. Substitution request for HWP16 formed metal wall panels by DMI is accepted.
3. Specification Section 084113 – Aluminum Framed Entrances and Storefronts
  - a. Substitution request for Aluminum Storefronts by Arcadia, Inc. is rejected.
4. Specification Section 088853 – Security Glazing
  - a. Substitution request for Childgard security glazing by Global Security Glazing is rejected
5. Specification Section 095113 – Acoustical Panel Ceilings
  - a. Substitution request for Radar 2410 Ceiling Tile by United States Gypsum is rejected.
6. Specification Section 092900 – Gypsum Board
  - a. Delete section 092900 part 2.3 D “Abuse-Resistant Gypsum Board” from specifications.
7. Specification Sections 265119, 265219, 265613, 265619.
  - a. Substitution request for lighting manufacturers proposed by Meglio & Associates is approved. Individual fixtures will be reviewed during the submittal process. Include a calculation for fixtures used at the parking lots with the submittal.

#### Clarifications to the Drawings:

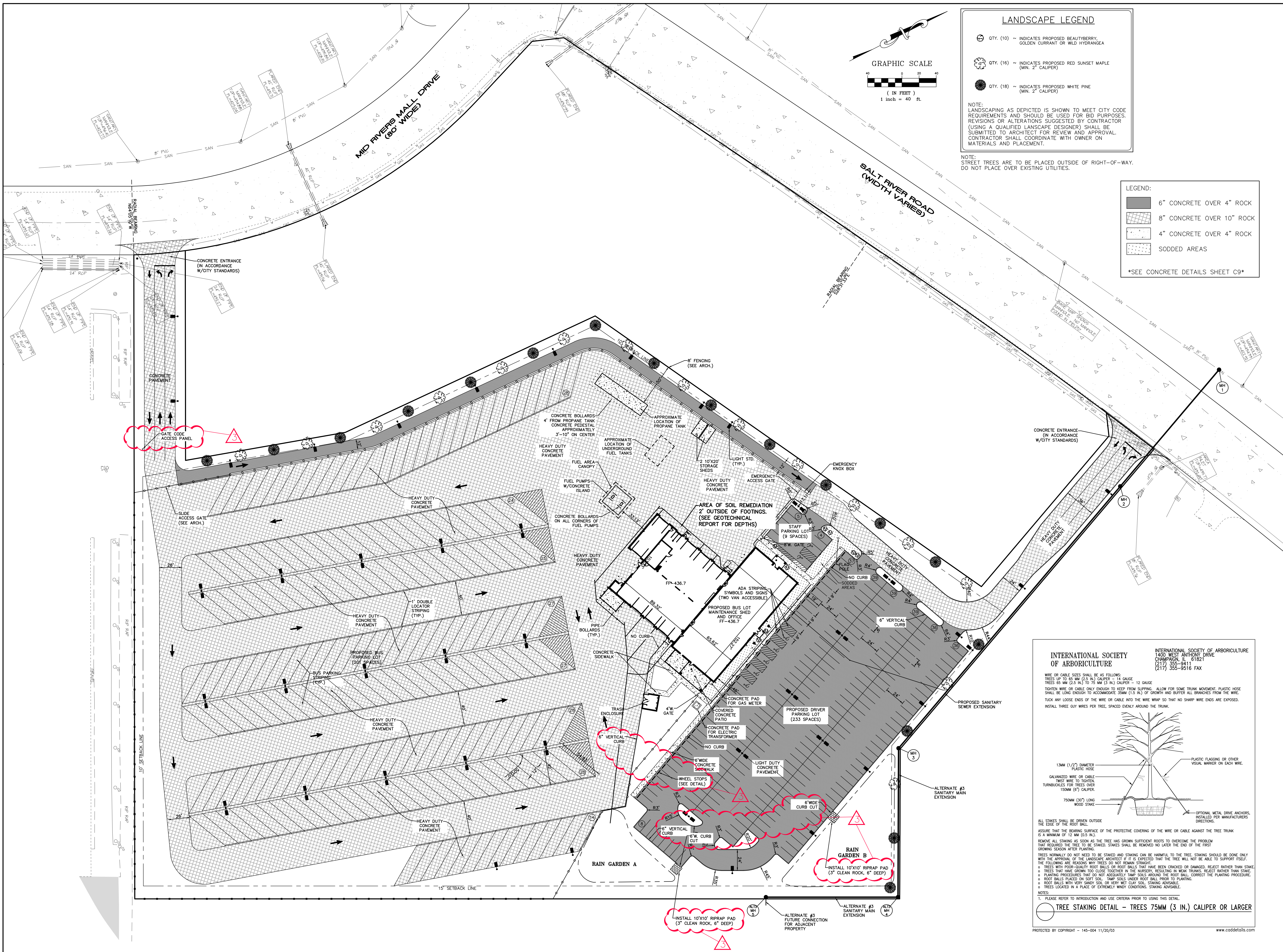
1. C3
  - a. Removed 3’ Rock Infiltration Strip callout
  - b. Added wheel stops to spaces along sidewalk
  - c. Modified number of curb cuts, added riprap at curb cuts
  - d. Added vertical curb near dumpster area
  - e. Revised callout of “Knox Box” at bus drive slide gate to “Gate Code Access Panel”
2. C5
  - a. Revised grading at Rain Garden Area A.
3. C9
  - a. Added wheel stop detail
4. C10
  - a. Revised Rain Garden details, added detail for Filtration Strip Seed Mix and Rain Garden Soil Mix
5. A2.01
  - a. Add bollards to south side of Service Bays 140 at overhead doors.
6. A3.01
  - a. Revise ceilings in rooms Staff Break 135 and Mechanic Break Room 150 to be ACT-1.
7. A5.01
  - a. Add bollards at overhead doors to South Building Elevation 3/A5.01.
8. A10.01
  - a. Revise Material General Finish Notes 6, 8, and 9 to correct paint colors.

9. S2.01
  - a. Revise foundation plan note 5 to read "ALL EXCAVATION, SUBGRADE PREPARATION AND BACKFILL TO PROJECT ELEVATIONS SHALL BE PERFORMED UNDER DIRECT SUPERVISION OF GEOTECHNICAL ENGINEER RETAINED BY THE OWNER, AND IBC SPECIAL INSPECTIONS SHALL BE PROVIDED PER GENERAL NOTE.
  - b. Revise detail callout at mechanical unit conc. support to 13/S3.01 in lieu of 16/S3.01

Attachments:

1. Sheet C3
2. Sheet C5
3. Sheet C9
4. Sheet C10
5. Sheet A2.01
6. Sheet A3.01
7. Sheet A5.01
8. Sheet A10.01
9. Sheet S2.01

End Of Addendum No. 03

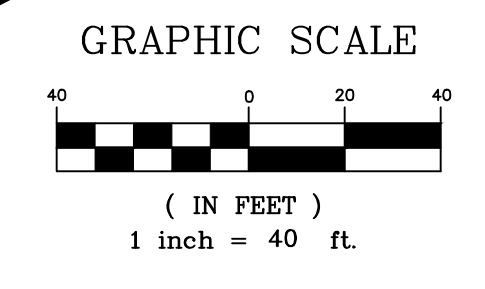


### LANDSCAPE LEGEND

- QTY. (10) ~ INDICATES PROPOSED BEAUTYBERRY, GOLDEN CURRANT OR WILD HYDRANGEA
- QTY. (16) ~ INDICATES PROPOSED RED SUNSET MAPLE (MIN. 2" CALIPER)
- QTY. (18) ~ INDICATES PROPOSED WHITE PINE (MIN. 2" CALIPER)

NOTE: LANDSCAPING AS DEPICTED IS SHOWN TO MEET CITY CODE REQUIREMENTS AND SHOULD BE USED FOR BID PURPOSES. REVISIONS OR ALTERATIONS SUGGESTED BY CONTRACTOR (USING A QUALIFIED LANDSCAPE DESIGNER) SHALL BE SUBMITTED TO ARCHITECT FOR REVIEW AND APPROVAL. CONTRACTOR SHALL COORDINATE WITH OWNER ON MATERIALS AND PLACEMENT.

NOTE: STREET TREES ARE TO BE PLACED OUTSIDE OF RIGHT-OF-WAY. DO NOT PLACE OVER EXISTING UTILITIES.



### LEGEND:

- 6" CONCRETE OVER 4" ROCK
- 8" CONCRETE OVER 10" ROCK
- 4" CONCRETE OVER 4" ROCK
- SODDED AREAS

\*SEE CONCRETE DETAILS SHEET C9\*

### INTERNATIONAL SOCIETY OF ARBORICULTURE

1400 WEST ANTHONY DRIVE  
CHAMPAIGN, IL 61821  
(217) 352-3411  
(217) 355-9516 FAX

WIRE OR CABLE SIZES SHALL BE AS FOLLOWS:  
TREES UP TO 65 MM (2.5 IN.) CALIPER - 14 GAUGE  
TREES 65 MM (2.5 IN.) TO 75 MM (3 IN.) CALIPER - 12 GAUGE  
TORN WIRE OR CABLE ONLY ENOUGH TO KEEP FROM SLIPPING. ALLOW FOR SOME TRUNK MOVEMENT. PLASTIC HOSE SHALL BE LONG ENOUGH TO ACCOMMODATE 30MM (1.5 IN.) OF GROWTH AND BUFFER ALL BRANCHES FROM THE WIRE.

TUCK ANY LOOSE ENDS OF THE WIRE OR CABLE INTO THE WIRE WRAP SO THAT NO SHARP WIRE ENDS ARE EXPOSED. INSTALL THREE CUM WIRE PER TREE, SPACED EVENLY AROUND THE TRUNK.

13MM (1/2") DIAMETER PLASTIC HOSE  
GALVANIZED WIRE OR CABLE - TWIST WIRE TO TIGHTEN.  
TURNBUCKLES FOR TREES OVER 150MM (6") CALIPER.  
750MM (30") LONG WOOD STAKE  
PLASTIC FLAGGING OR OTHER VISUAL MARKER ON EACH WIRE.  
OPTIONAL METAL DRIVE ANCHORS, INSTALLED PER MANUFACTURERS DIRECTIONS.

ALL STAKES SHALL BE BROKEN OUTSIDE THE EDGE OF THE ROOT BALL.  
ASSURE THAT THE BEARING SURFACE OF THE PROTECTIVE COVERING OF THE WIRE OR CABLE AGAINST THE TREE TRUNK IS A MINIMUM OF 12 MM (0.5 IN.).  
REMOVE ALL STAKING AS SOON AS THE TREE HAS GROWN SUFFICIENT ROOTS TO OVERCOME THE PROBLEM THAT REQUIRED THE TREE TO BE STAKED. STAKES SHALL BE REMOVED NO LATER THE END OF THE FIRST GROWING SEASON AFTER PLANTING.  
TREES NORMALLY DO NOT NEED TO BE STAKED AND STAKING CAN BE HARMFUL TO THE TREE. STAKING SHOULD BE DONE ONLY WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT IF IT IS EXPECTED THAT THE TREE WILL NOT BE ABLE TO SUPPORT ITSELF. THE FOLLOWING ARE REASONS WHY TREES DO NOT REMAIN STRAIGHT:  
o TREES WITH POOR-QUALITY ROOT BALLS OR ROOT BALLS THAT HAVE BEEN CRACKED OR DAMAGED. REJECT RATHER THAN STAKE.  
o TREES THAT HAVE GROWN TOO CLOSE TOGETHER IN THE NURSERY, RESULTING IN WEAK TRUNKS. REJECT RATHER THAN STAKE.  
o PLANTING PROCEDURES THAT DO NOT ADEQUATELY TAMP SOIL AROUND THE ROOT BALL. CORRECT THE PLANTING PROCEDURE.  
o ROOT BALLS PLACED ON SOFT SOIL - TAMP SOILS UNDER ROOT BALL PRIOR TO PLANTING.  
o ROOT BALLS WITH VERY SANDY SOIL OR VERY WET CLAY SOIL - STAKING ADVISABLE.  
o TREES LOCATED IN A PLACE OF EXTREMELY WINDY CONDITIONS. STAKING ADVISABLE.

NOTES:  
1. PLEASE REFER TO INTRODUCTION AND USE CRITERIA PRIOR TO USING THIS DETAIL.

### TREE STAKING DETAIL - TREES 75MM (3 IN.) CALIPER OR LARGER

PROTECTED BY COPYRIGHT - 145-004 11/20/03 [www.caddetails.com](http://www.caddetails.com)

A SET OF CONSTRUCTION PLANS FOR  
**FORT ZUMWALT TRANSPORTATION CENTER**  
 SALT RIVER ROAD  
 ST. PETERS, MO

PREPARED FOR:  
 FORT ZUMWALT DISTRICT  
 305 E. TERRA LANE  
 ST. PETERS, MO 65076  
 07/26/24

**ENGINEERING PLANNING SURVEYING**  
 221 Point West Blvd.  
 St. Charles, MO 63301  
 636-928-5552  
 FAX 636-928-1718  
 Six Engineering Company, Inc.  
 Missouri State Certificate of Authority  
 Engineering #000635  
 Missouri State Certificate of Authority  
 Surveying #000144

REVISIONS

DISCLAIMER OF RESPONSIBILITY  
 I hereby disclaim any responsibility for all other drawings, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural or engineering project or survey other than those authorized by this set of plans.

BID PERMIT SET 08/13/24  
 ADDENDUM 1 08/28/24  
 ADDENDUM 3 09/05/24

Cliff L. Helmann  
 Civil Engineer  
 E29817

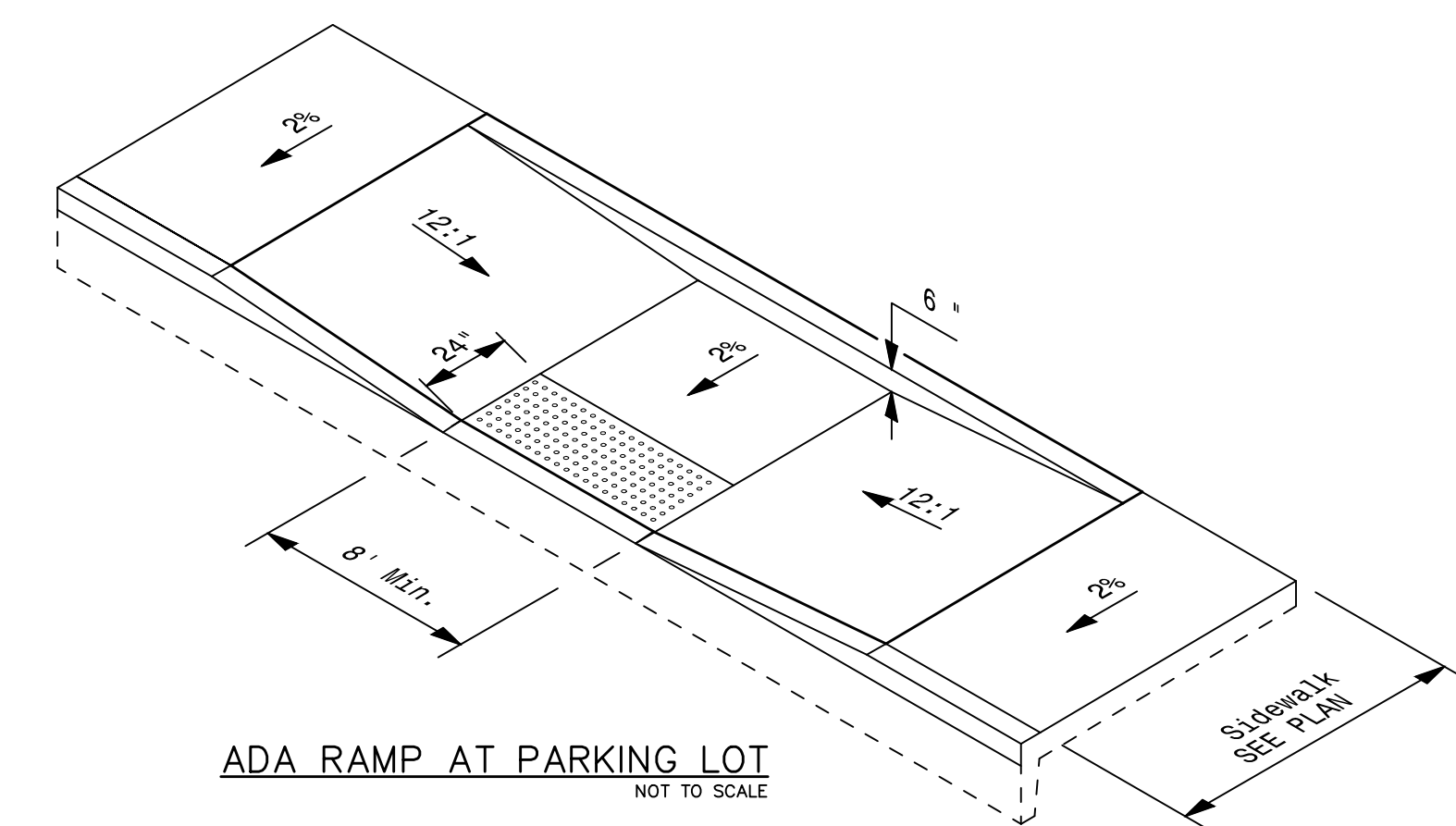
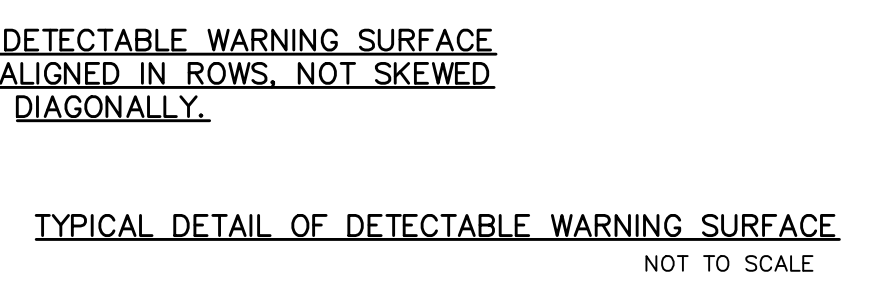
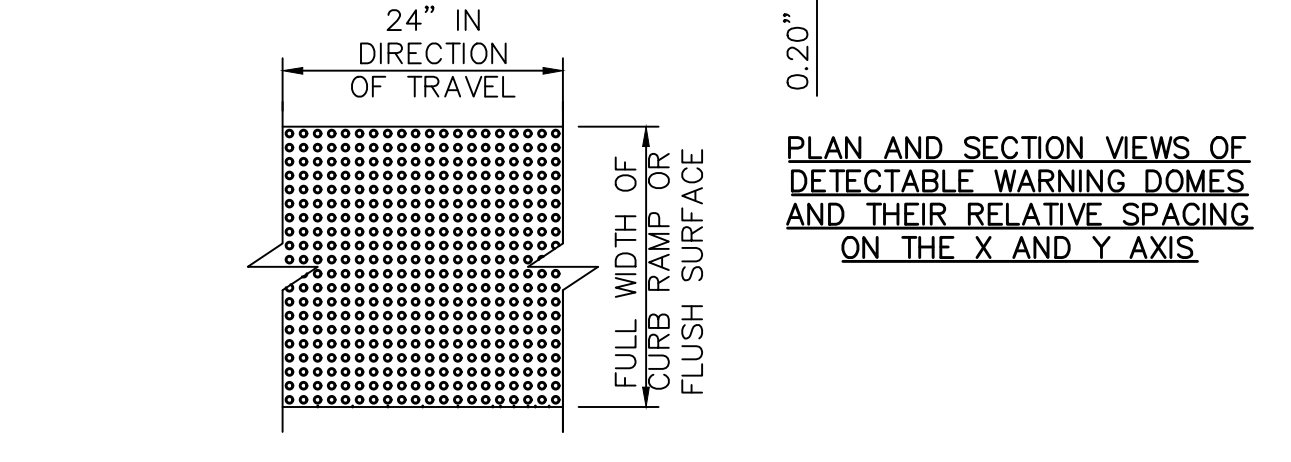
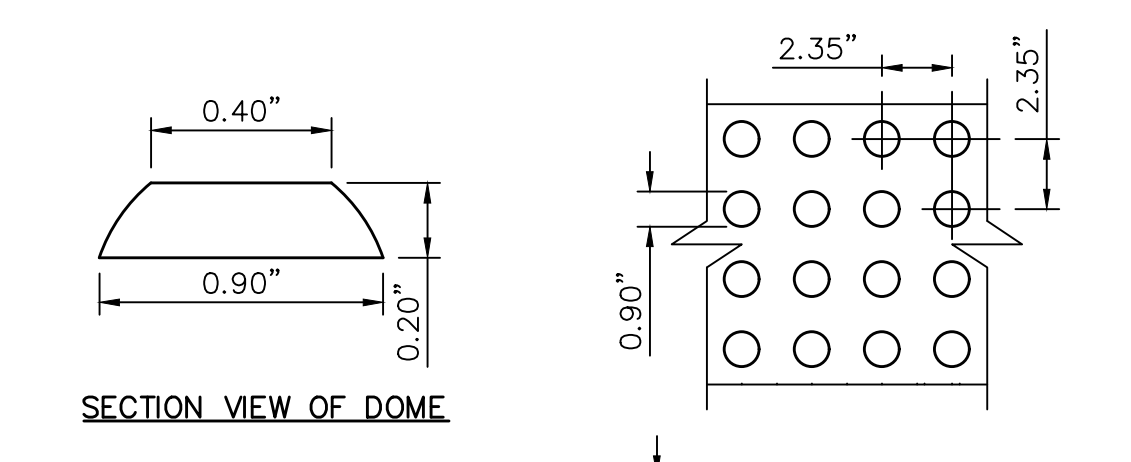
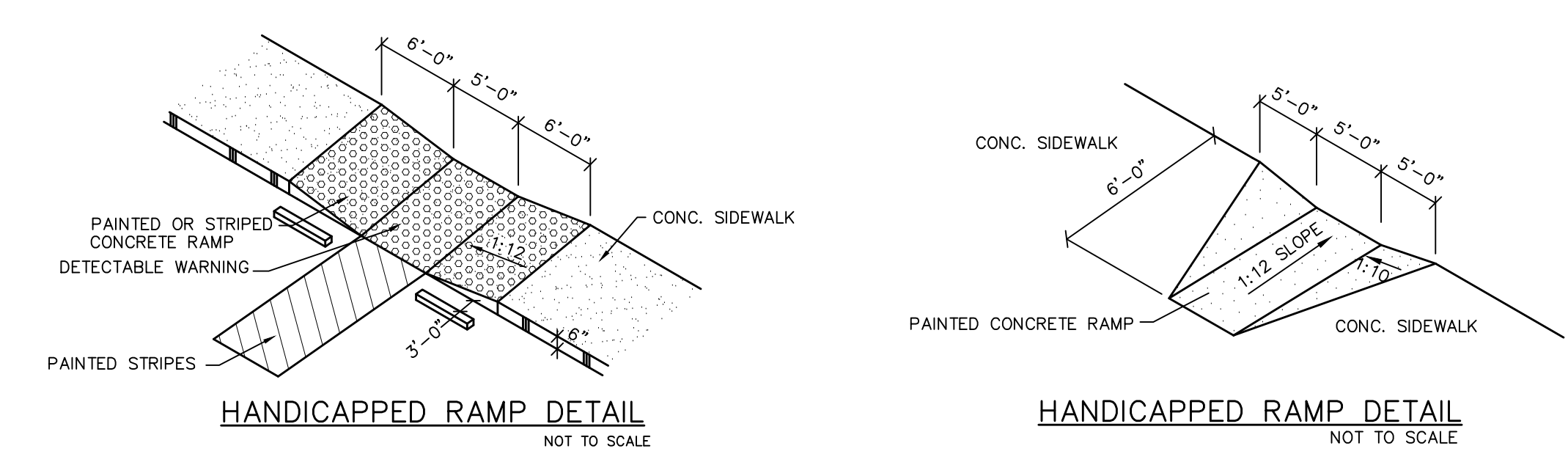
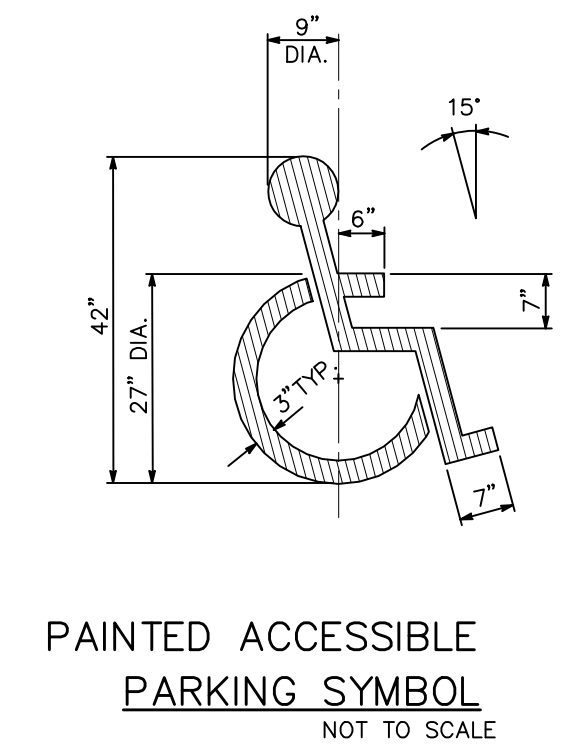
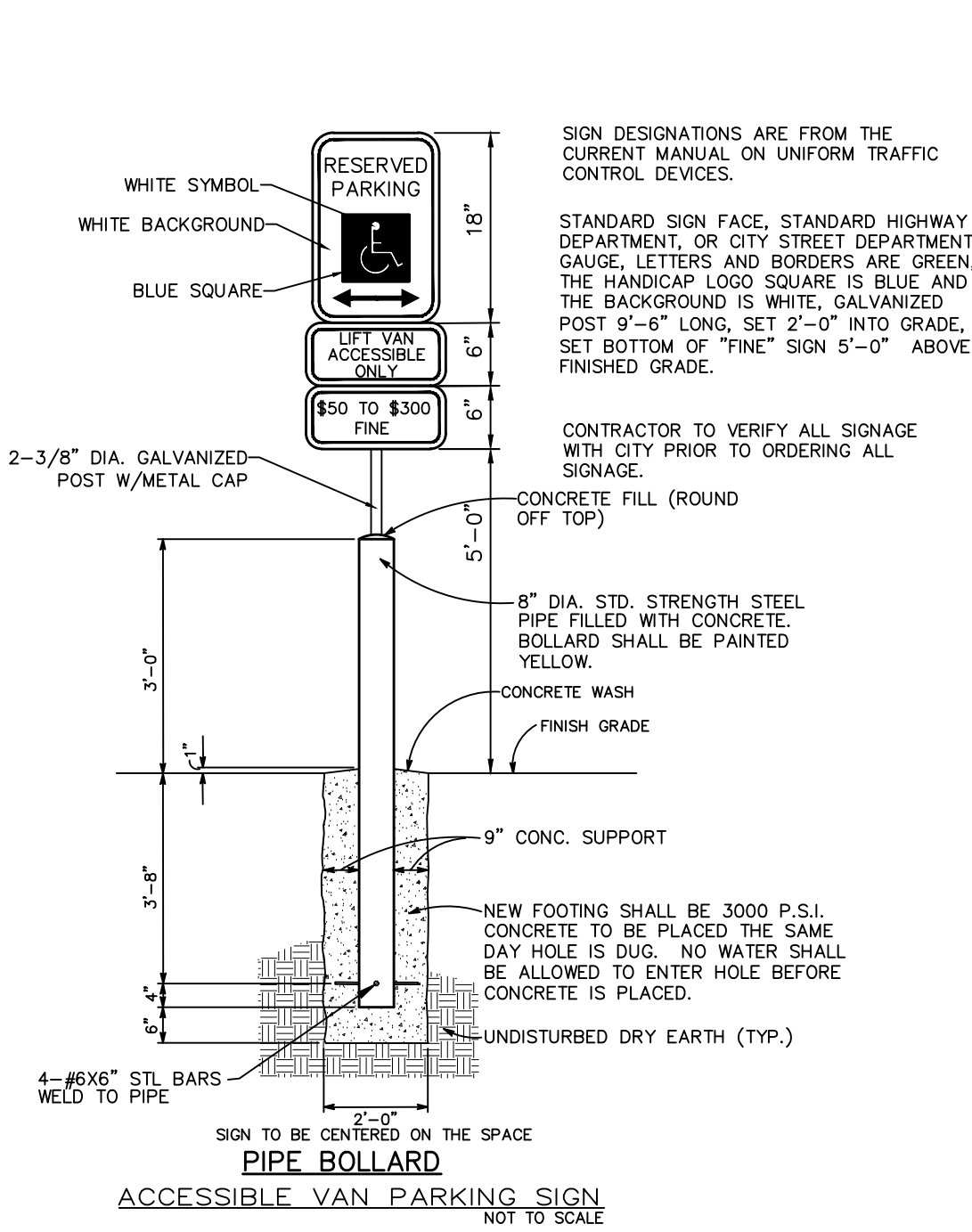
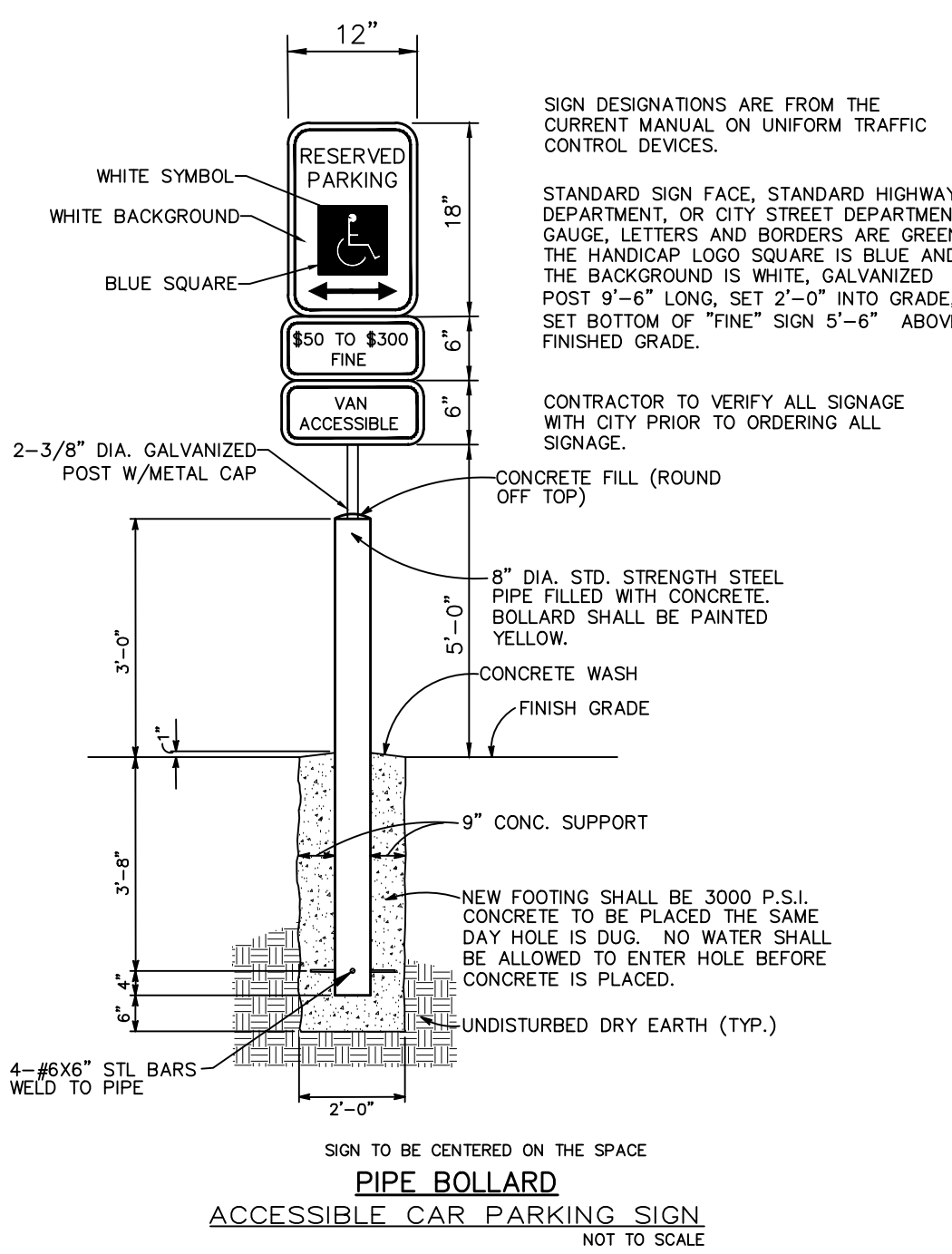
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SITE PLAN

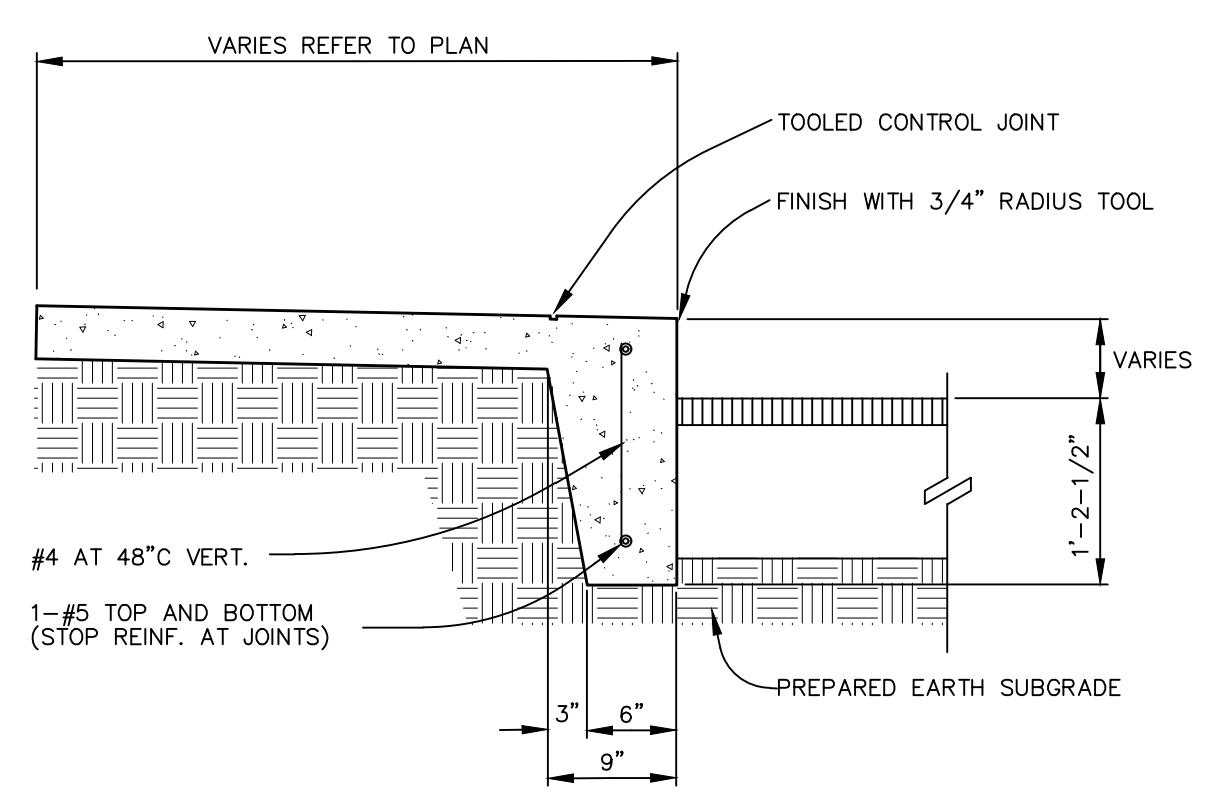
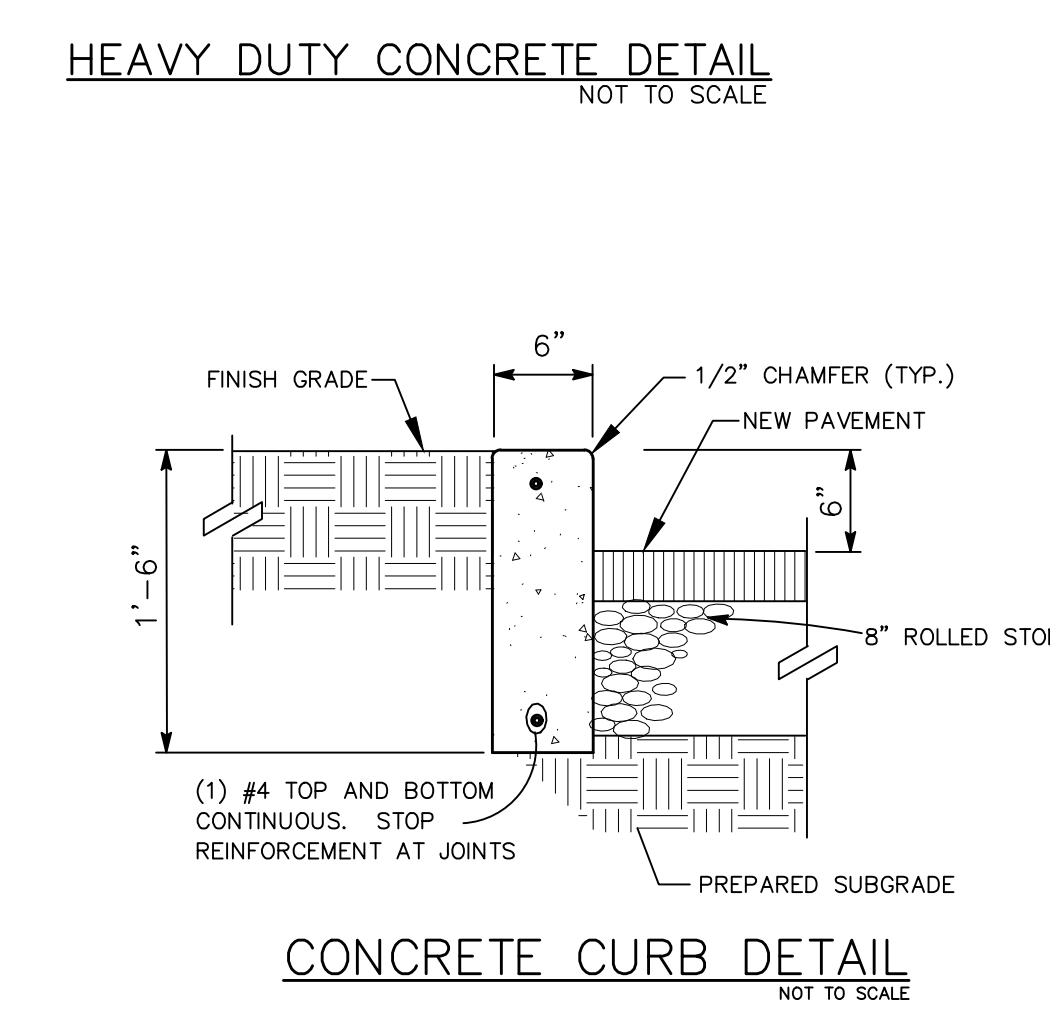
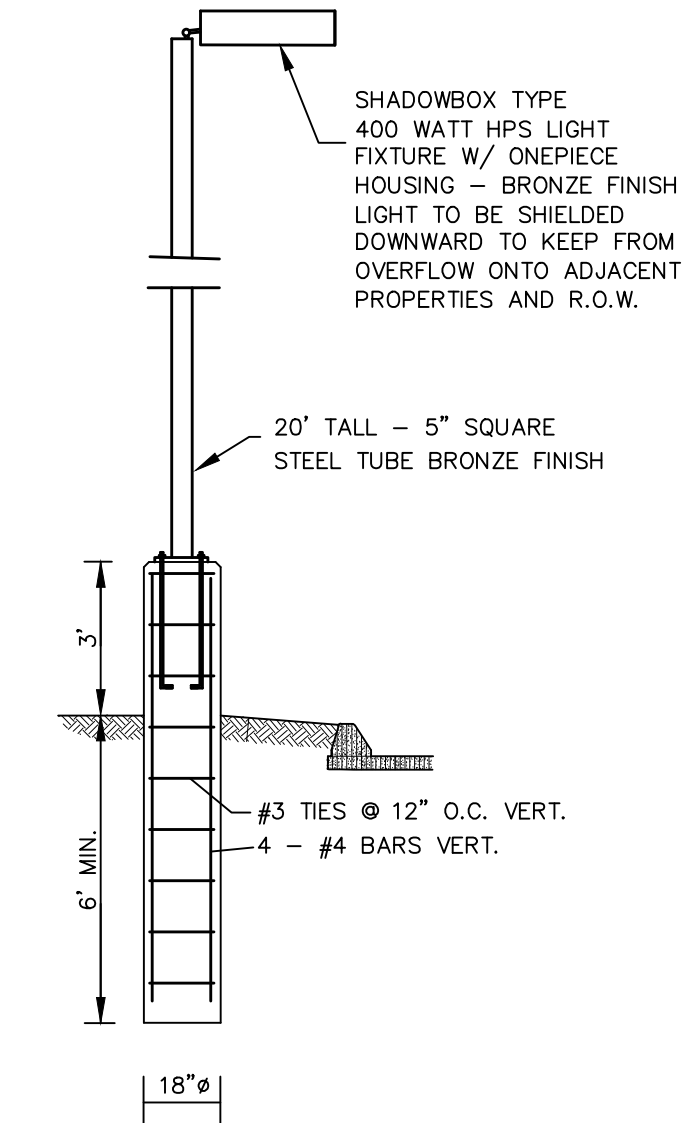
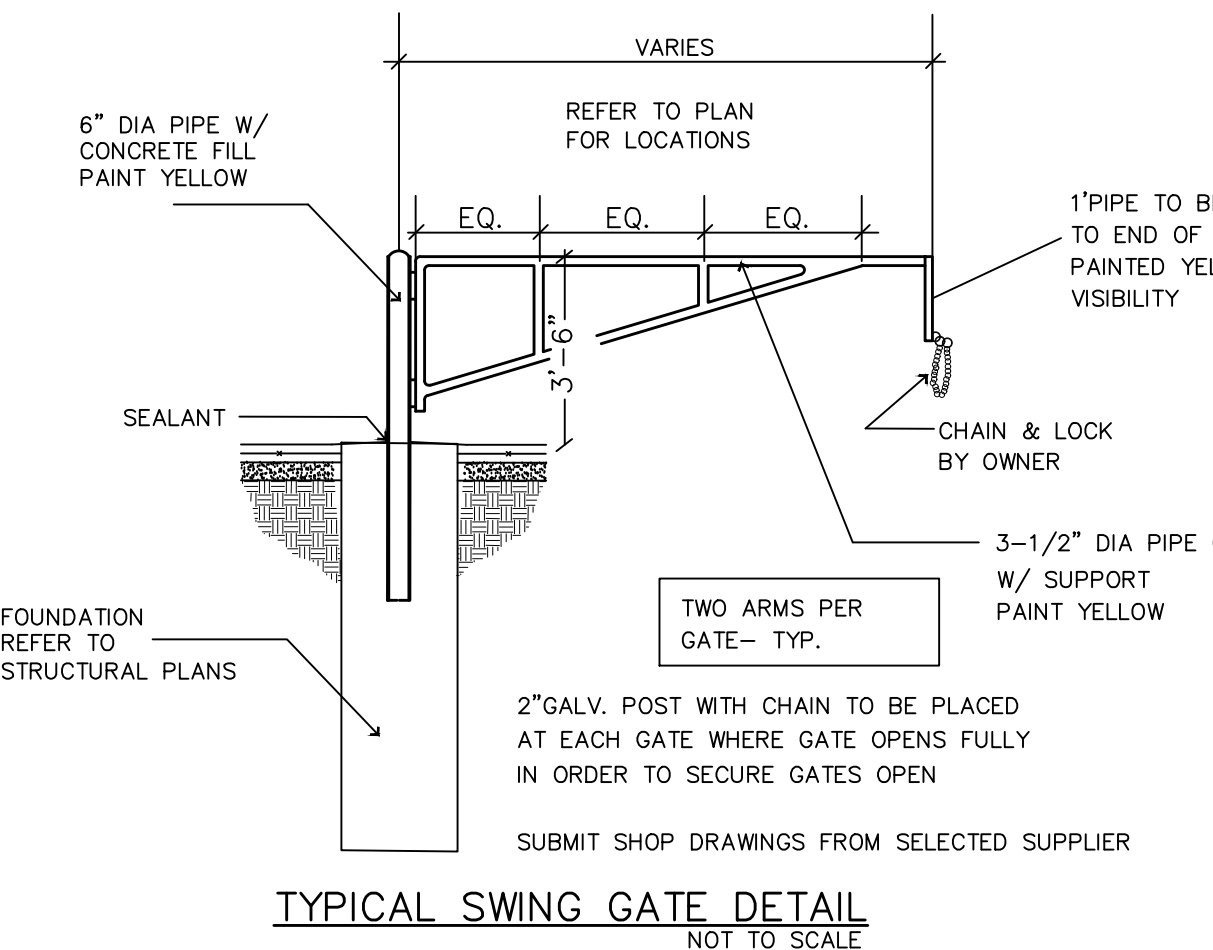
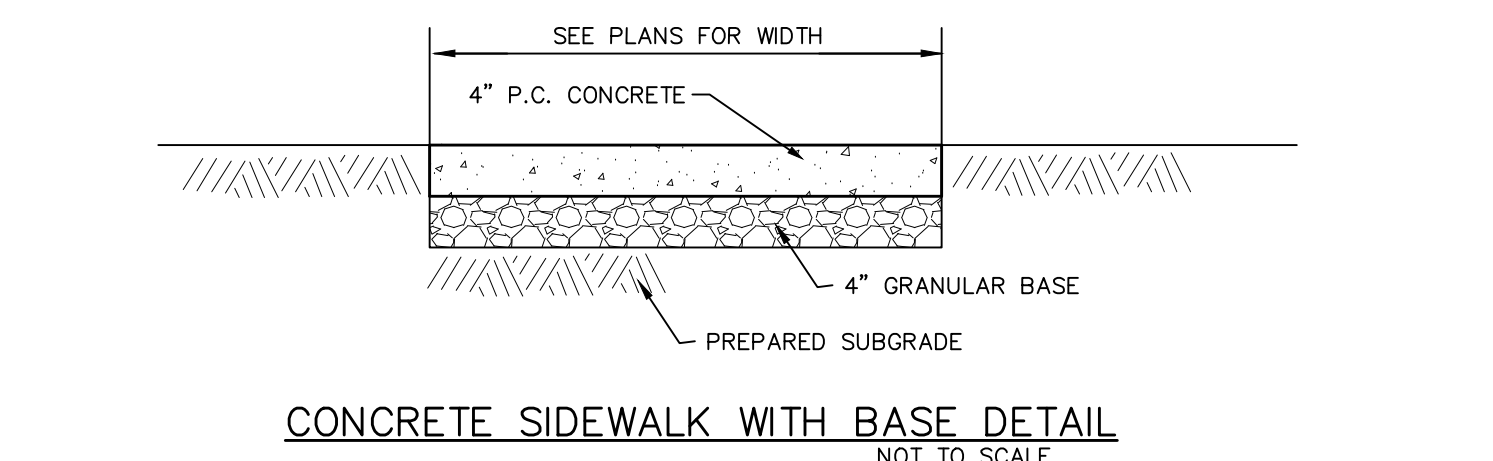
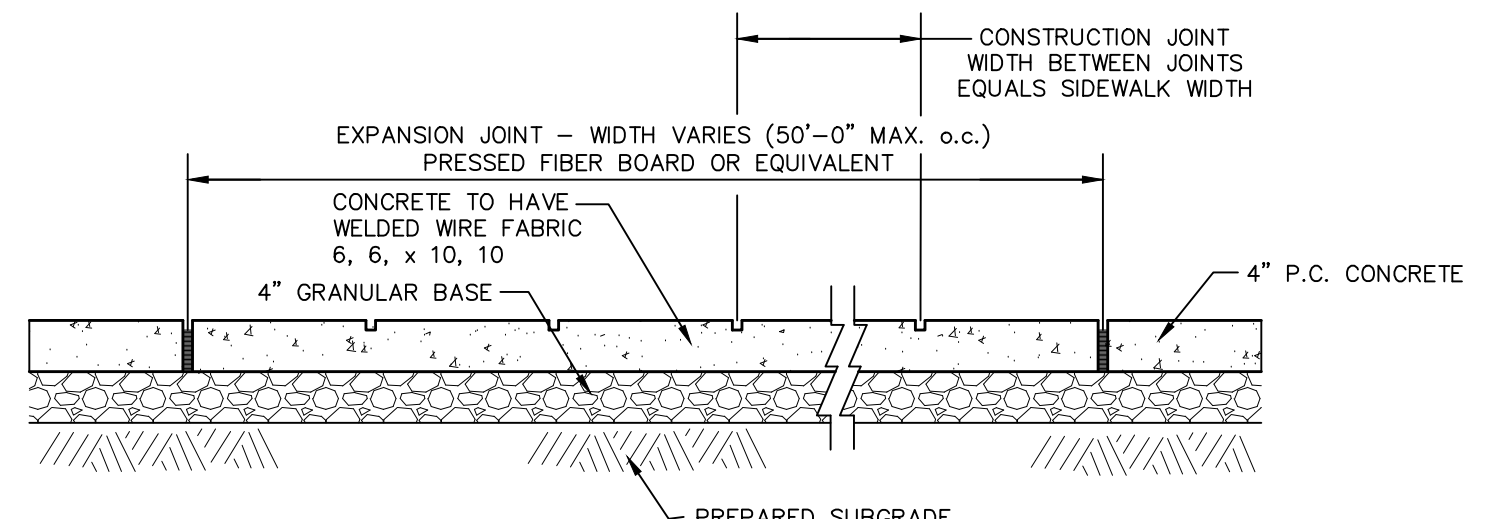
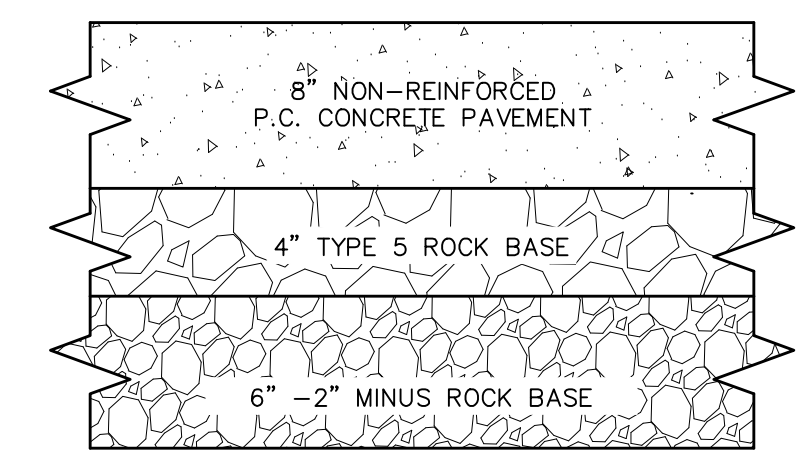
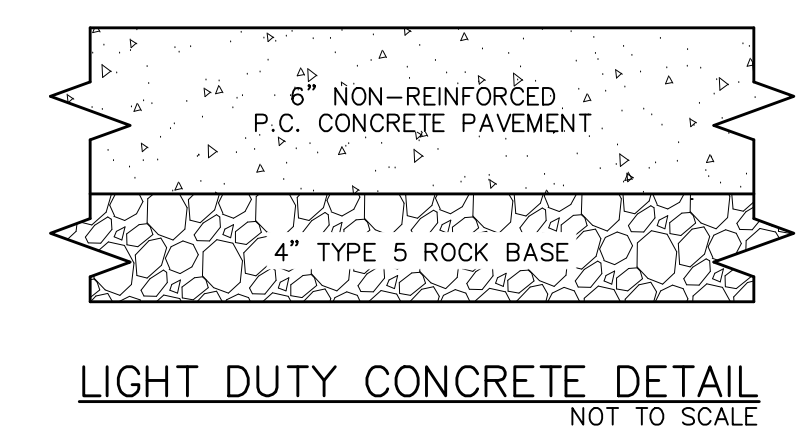
**C3**

UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE THEIR LOCATIONS SHALL BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF ALL UNDERGROUND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE LOCATED PRIOR TO ANY GRADING OR CONSTRUCTION OF THE IMPROVEMENTS.

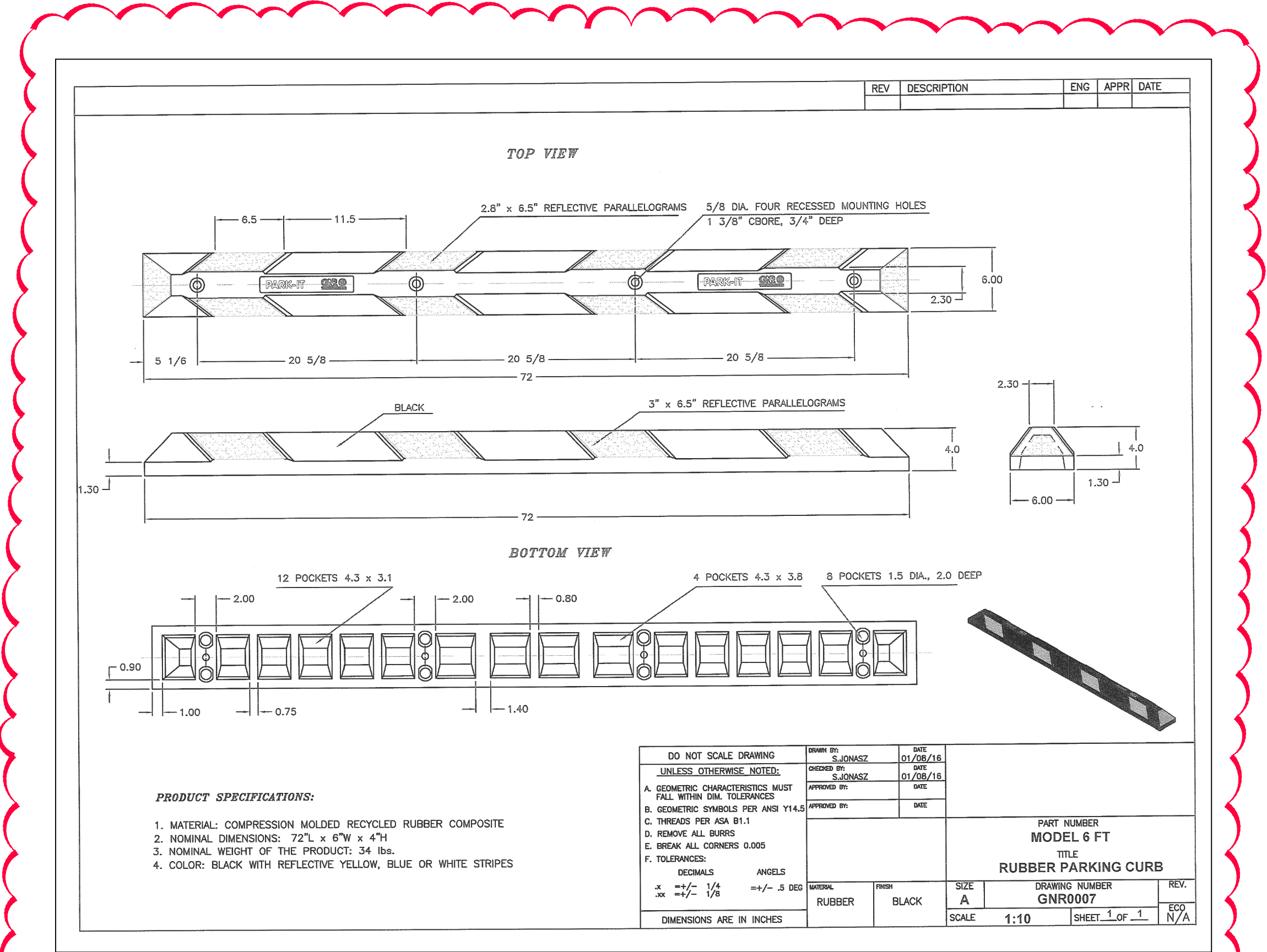




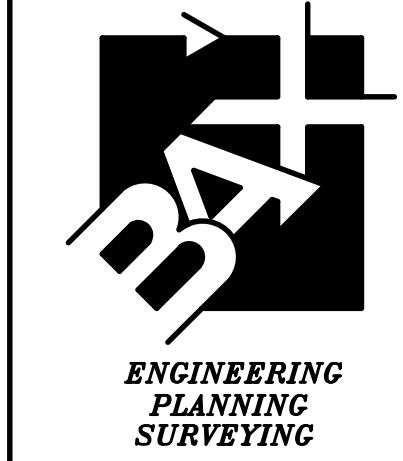
NOTE: SIGN POST AND SIGN BACK SHALL BE PAINTED BLACK PER ROADWAY NOTE 19 ON SHEET C2.



PROVIDE 1/2" PREFORMED EXPANSION JOINT FILLER AT 60° CENTERS  
PROVIDE TOOLED CONTRACTION JOINTS AT 10' C.C.



A SET OF CONSTRUCTION PLANS FOR  
**FORT ZUMWALT TRANSPORTATION CENTER**  
SALT RIVER ROAD  
ST. PETERS, MO



221 Point West Blvd.  
St. Charles, MO 63301  
636-928-5552  
FAX 928-1718

Box Engineering Company, Inc.  
Missouri State Certificate of Authority  
Engineering #000635  
Missouri State Certificate of Authority  
Surveying #000144

NO.	DATE	DESCRIPTION

DISCLAIMER OF RESPONSIBILITY  
I hereby disclaim any responsibility for all other drawings, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural or engineering project or survey other than those authorized by my seal.

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ADDENDUM 1 08/28/24  
ADDENDUM 3 09/05/24

Cliff L. Helmann  
Civil Engineer  
E28917

07/26/24  
DATE  
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PROJECT NUMBER  
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FILE NAME  
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DETAILS

C9



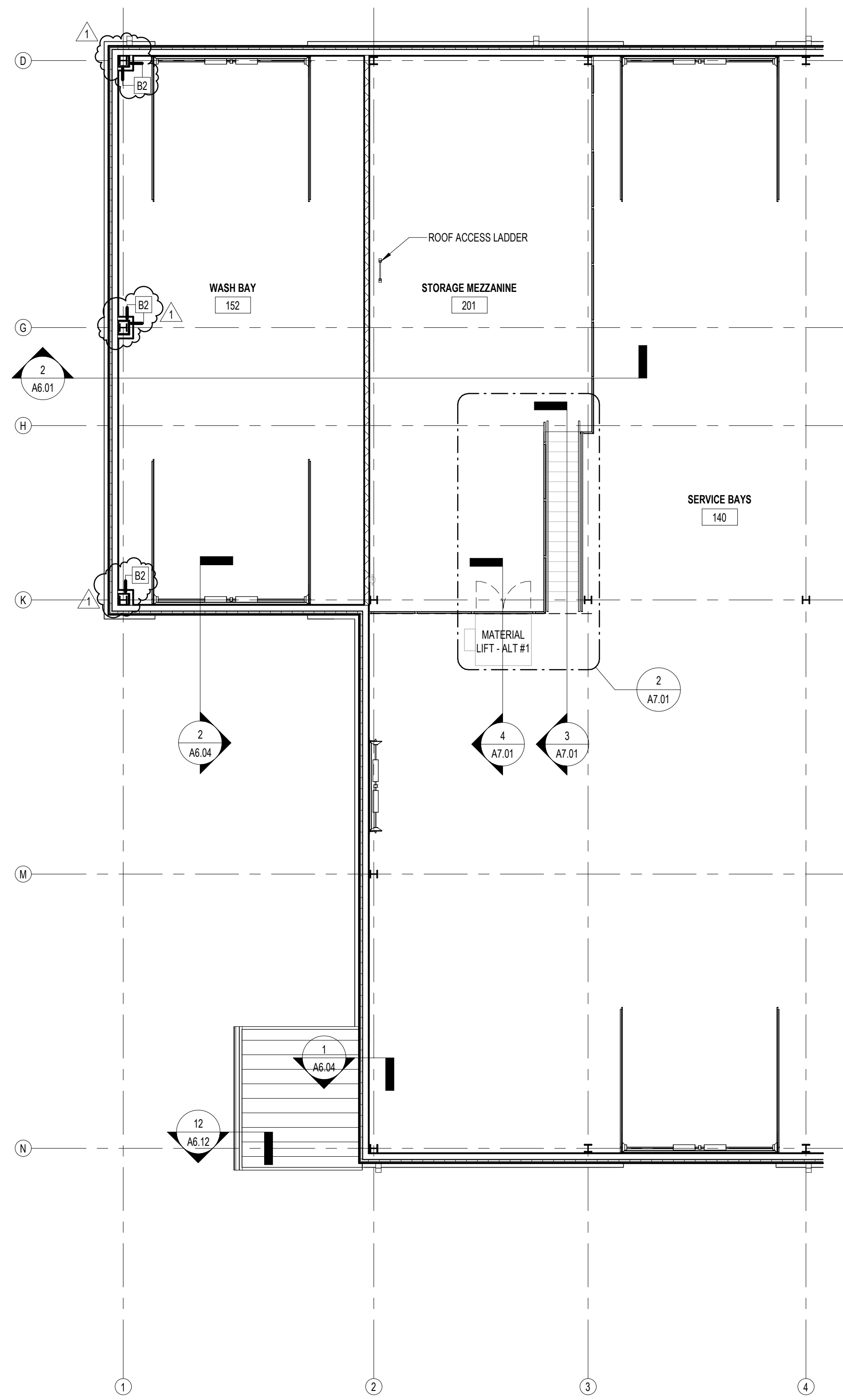
CALL BEFORE YOU DIG!  
1-800-DIG-RITE

UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE THEIR LOCATIONS SHALL BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF ALL UNDERGROUND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE LOCATED PRIOR TO ANY GRADING OR CONSTRUCTION OF THE IMPROVEMENTS.

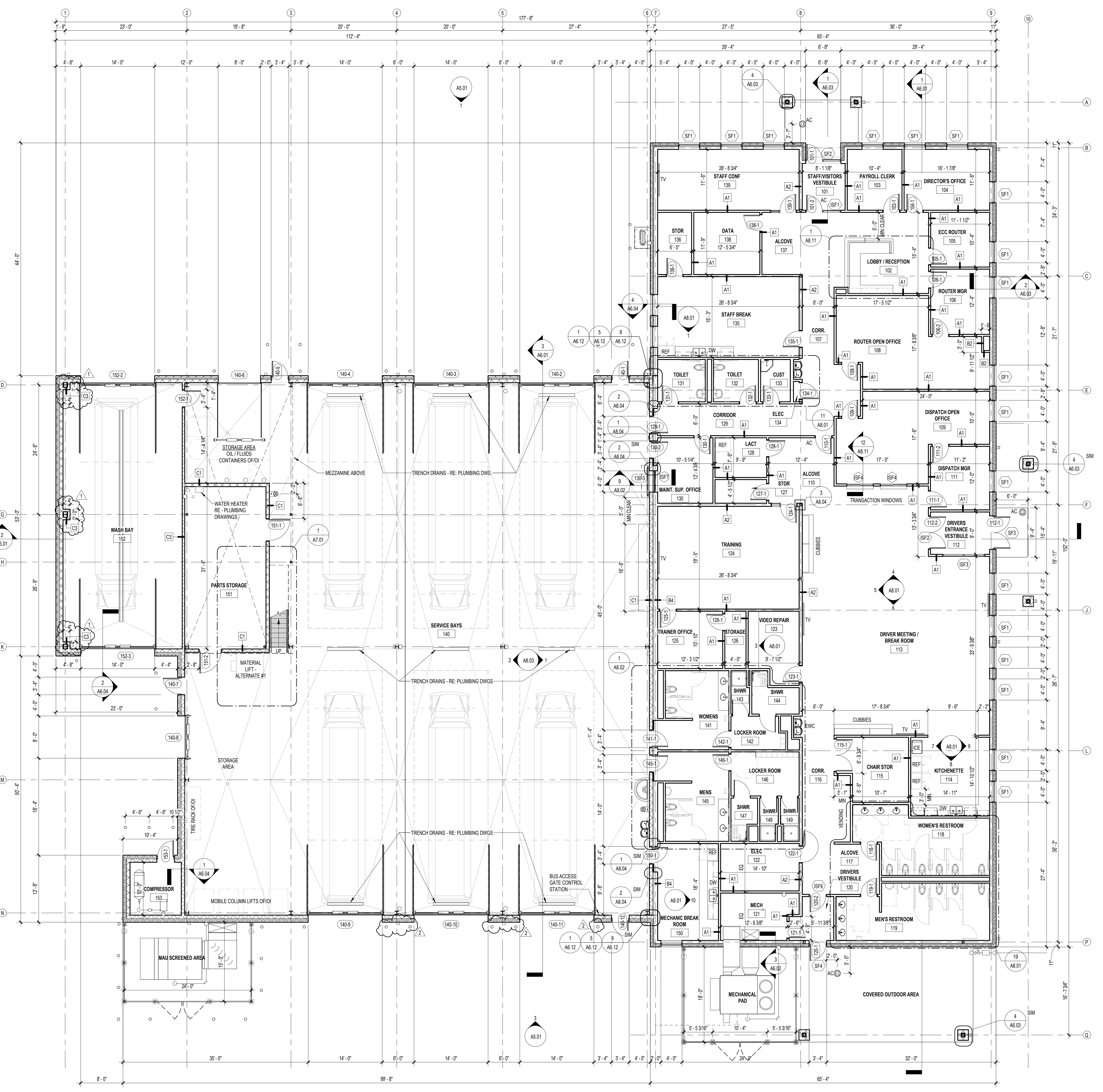


**GENERAL FLOOR PLAN NOTES**

1. FINISHED FLOOR = 0'-0" U.N.O. = ELEVATION 436.7 - REFER TO CIVIL
2. REFER TO DRAWINGS G1.01 FOR PARTITION AND ASSEMBLY TYPES.
3. REFER TO DRAWING A9.01 FOR DOOR SCHEDULE, DOOR AND FRAME TYPES, AND DETAILS.
4. REFER TO DRAWING A9.02 FOR STOREFRONT TYPES, AND DETAILS.
5. REFER TO ENLARGED PLANS FOR ADDITIONAL DIMENSIONAL INFORMATION AND PARTITION TYPES OF TAGGED AREAS SUCH AS TOILET ROOMS.
6. DIMENSIONS SHOWN ARE TO FACE OF FINISH, TO CENTER LINE OF COLUMNS, AND TO FACE OF CONCRETE OR MASONRY WALLS U.N.O.
7. ALL EXTERIOR DIMENSIONS OF OPENINGS ARE MASONRY OPENING DIMENSIONS U.N.O.
8. PROVIDE GYPSUM BOARD CONTROL JOINTS THE FULL HEIGHT OF THE PARTITION AT A SPACING OF 30'-0" O.C. MAX.
9. METAL FRAMING PERFORMANCE CRITERIA: PROVIDE NECESSARY FRAMING, GAUGES, FASTENERS, ETC. TO ACHIEVE U360 DEFLECTION AT ALL METAL FRAMING INSTALLATIONS.
10. ALL PENETRATIONS WITHIN FIRE RATED WALLS ARE TO BE SEALED WITH FIRE CAULKING TO MAINTAIN THE SPECIFIED U.L. DESIGN. THE CONTRACTOR RESPONSIBLE FOR THE PENETRATION IS RESPONSIBLE FOR THE FIRE CAULKING INSTALLATION.
11. COMBUSTIBLE MATERIALS MUST COMPLY WITH 2021 IBC, SECTION 603.1. COMBUSTIBLE MATERIALS IN CONCEALED SPACES MUST COMPLY WITH 2021 IBC, SECTION 718.5.
12. PROVIDE LEVEL SURFACES AT ALL DOORS IN ACCORDANCE TO IBC 1010.1.4
13. LOCATE DOORS 4" FROM INSIDE CORNER UNLESS OTHERWISE NOTED. PROVIDE MINIMUM 1'-0" CLEAR FLOOR SPACE AT THE PUSH SIDE OF EVERY DOOR. WITH A CLOSER, PROVIDE MINIMUM 1'-8" CLEAR AT THE PULL SIDE OF EVERY DOOR, UNLESS SPECIFICALLY DIMENSIONED, NOTED, OR SHOWN OTHERWISE.
14. PROVIDE CORNER GUARDS AS INDICATED ON FINISH PLANS AND ELEVATIONS.
15. COORDINATE MOUNTING DIMENSIONS OF TELEVISION MONITORS, MAGNETIC MARKER BOARDS, GLASS MARKER BOARDS, TACK BOARDS, CLOCKS, SPEAKERS, EQUIPMENT, ETC. WITH OWNER.
16. INSTALL FIRE EXTINGUISHER CABINETS WHERE NOTED IN PLAN AND AS NOTED IN THE FIRE PROTECTION DRAWINGS. REFER TO LIFE SAFETY PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION INCLUDING CABINET TYPES.
17. REFER STRUCTURAL DRAWINGS FOR LOCATIONS OF ALL STEEL REINFORCING IN WALL AND FLOOR CONSTRUCTION.
18. REFER ELEVATIONS AND STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION & CONTROL JOINTS. CONTRACTOR SHALL PROVIDE ADDITIONAL INTERIOR CONTROL JOINTS AS REQUIRED TO COMPLY WITH MAXIMUM SPACING REQ. IN SPECIFICATIONS. COORDINATE FINAL LOCATIONS WITH ARCHITECT.
19. MECHANICAL & ELECTRICAL EQUIPMENT SHALL BE ON HOUSEKEEPING PADS. REFER MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. PADS SHALL BE 4" MIN., 4" THICK WITH W.W.F., U.N.O.



2 MEZZANINE  
A2.01 1/8" = 1'-0"



1 FLOOR PLAN - LEVEL 01  
A2.01 1/8" = 1'-0"

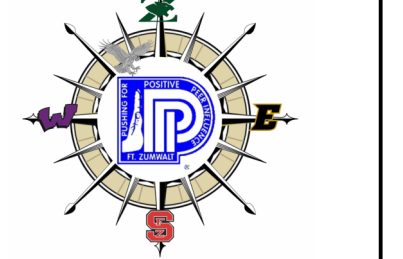
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(636) 537-0203  
NO. CERTIFICATE OF AUTHORITY NO. 20180489

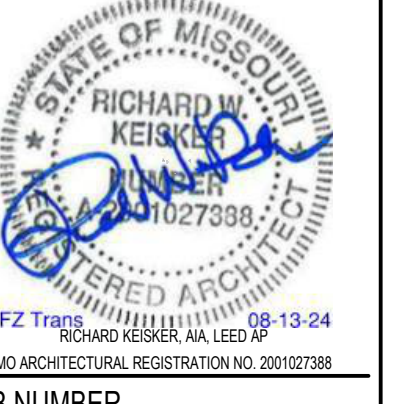
ELECTRICAL ENGINEER  
ECS CONSULTING ENGINEERS, INC.  
9986 MANCHESTER ROAD, SUITE 202  
ST. LOUIS, MO 63122  
(314) 755-1520  
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REGISTERED PROFESSIONAL ENGINEER NO. ENG. 02885  
REGISTERED PROFESSIONAL SURVEYOR NO. SURV. 60034A



**FORT ZUMWALT**  
**TRANSPORTATION CENTER**  
TOWNSHIP 47 NORTH, RANGE 4 EAST  
ST. PETERS, MO 63376

**FLOOR PLAN**



JOB NUMBER 224205  
DATE 08/13/2024

REVISIONS:  
1 Addendum 01  
2 Addendum 03

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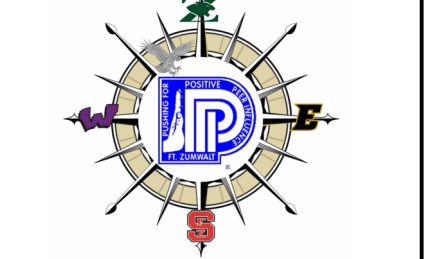
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CERTIFICATE OF AUTHORITY NO. 201901460

CONSULTANTS:  
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NO. CERTIFICATE OF AUTHORITY NO. 201901460

MECHANICAL ENGINEER  
FACILITY SOLUTIONS GROUP, INC.  
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FENTON, MO 63026  
(636) 537-0203  
NO. CERTIFICATE OF AUTHORITY NO. 201904880

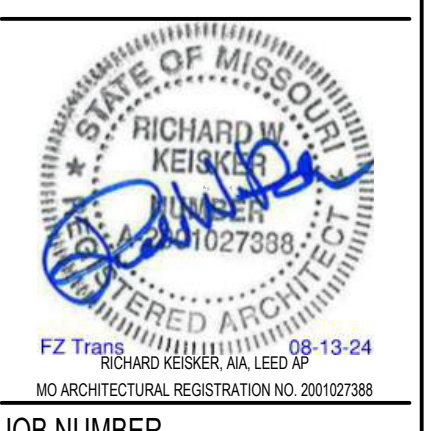
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ECS CONSULTING ENGINEERS, INC.  
9986 MANCHESTER ROAD, SUITE 202  
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NO. CERTIFICATE OF AUTHORITY NO. 630606017

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MEMBER CERTIFICATE OF AUTHORITY NO. ENG. 00005  
MEMBER CERTIFICATE OF AUTHORITY NO. SURVEYING 00004



**FORT ZUMWALT  
TRANSPORTATION CENTER**  
TOWNSHIP 47 NORTH, RANGE 4 EAST  
ST. PETERS, MO 63376

**CEILING PLAN**



JOB NUMBER: 224205  
DATE: 08/13/2024

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REVISIONS:  
2 Addendum 03

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REVISIONS:  
2 Addendum 03

**REFLECTED CEILING PLAN LEGEND**

	SUSPENDED ACOUSTIC CEILING SYSTEM AS SPECIFIED		SURFACE MOUNTED OR LINEAR PENDANT LIGHT FIXTURE - RE. ELECT. DWGS
	GYPSUM BOARD / HARD SURFACE CEILING OR SOFFIT		MECHANICAL SUPPLY, RETURN, AND EXHAUST GRILLS SHOWN FOR REFERENCE ONLY - RE. MECH. DWGS FOR EXACT NUMBER & LOCATIONS
	EXPOSED TO STRUCTURE ABOVE		CLG-01 - CEILING TYPE - RE. FINISH KEY
	RECESSED LIGHT FIXTURE - RE. ELECTRICAL DWGS		19'-0" AFF. - CEILING HEIGHT ABOVE FINISH FLOOR

**SEISMIC DESIGN CATEGORY 'D' - CEILING LATERAL FORCE BRACING**

VERTICAL STRUT, FASTENED TO MAIN RUNNER W/ #10 SCREW AND DECK ABOVE; HEAVY DUTY MAIN RUNNER OR MANUF. STANDARD STRUT

TIGHTLY FORMED WIRE LOOP, TYP AT ALL WIRE CONNECTIONS; SECURED BY (3) COMPLETE WRAPS COMPLETED WITHIN 3" OR LESS

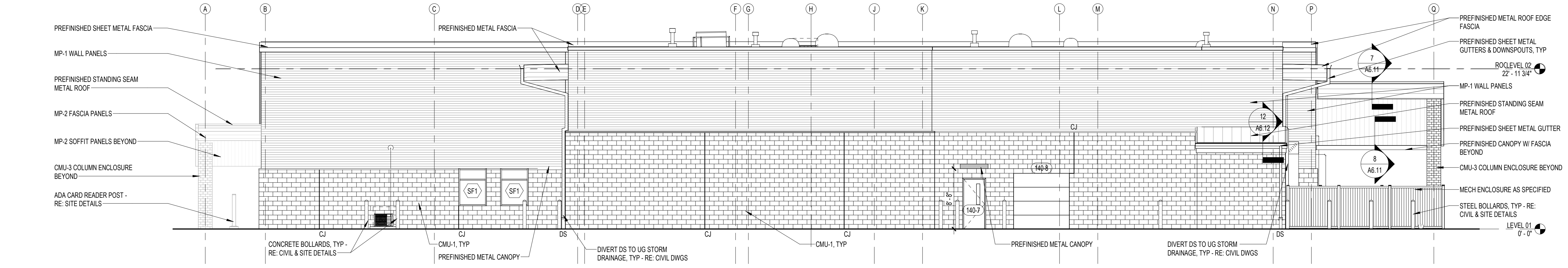
MAIN RUNNER - 180 LBS MINIMUM INTERSECTION STRENGTH WITH CROSS RUNNER

**LATERAL FORCE BRACING (CEILINGS GREATER THAN 1,000 SQUARE FEET):**  
(6) NO. 12 GAGE HEAVY-DUTY WIRES (TYPICAL), SPACED 90" FROM EACH OTHER IN 4 DIRECTIONS, AT AN ANGLE NOT EXCEEDING 45° FROM THE CEILING PLANE, ATTACHED TO MAIN RUNNER WITHIN 2" OF THE CROSS RUNNER INTERSECTION, AND TO THE BUILDING STRUCTURE ABOVE. SPACE WIRES 5" MIN. FROM ALL HORIZONTAL PIPING OR DUCTWORK NOT BRACED AGAINST HORIZONTAL FORCES.

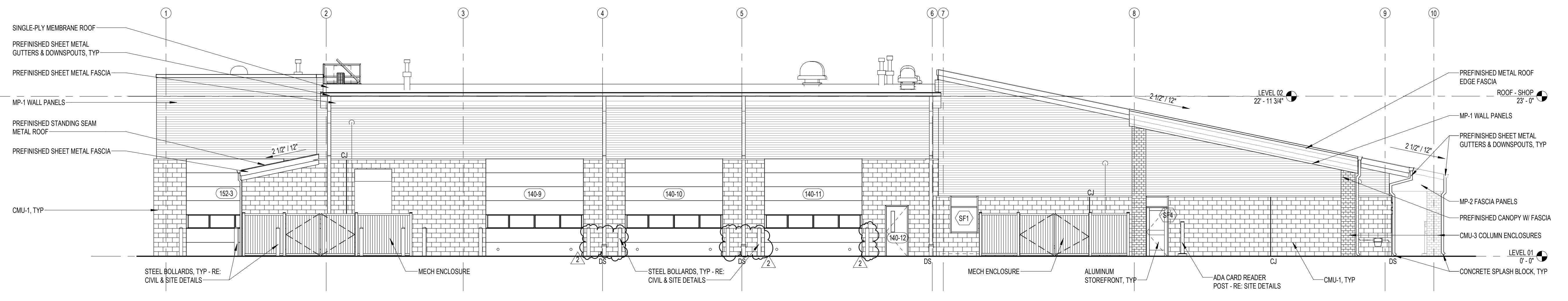
**NOTE:**  
A. NO. 12 GAGE VERTICAL HANGER WIRE (NOT SHOWN) AT 4'-0" OC SPACING ALONG MAIN RUNNER. VERTICAL HANGER WIRES SHALL BE STRAIGHT WITH NO BENDS AND SHALL NOT CONNECT TO EQUIPMENT. CONNECTION DEVICE TO STRUCTURE SHALL SUSTAIN NOT LESS THAN 100 LBS. COORDINATE LATERAL FORCE BRACING POINT LOCATIONS WITH LOCATIONS OF NO. 12 GAGE VERTICAL HANGER WIRE.

- GENERAL REFLECTED CEILING PLAN NOTES**
1. (X-X) DESIGNATES CEILING HEIGHT ABOVE FINISH FLOOR. COORDINATE ALL MEP WORK WITH CEILING HEIGHTS AND ARCHITECTURAL WORK.
  2. THE CONTRACTOR SHALL COORDINATE WITH ALL STRUCTURAL, ELECTRICAL, LIGHTING PLANS, MECHANICAL, AND FIRE PROTECTION DRAWINGS FOR LOCATION OF ALL SUPPLY, RETURN, EXHAUST, GRILLS, REGISTERS, DIFFUSERS, DUCTS, LIGHTS, SPRINKLER HEADS, PIPING, ETC. THE CONTRACTOR SHALL REPORT ANY OMISSIONS OR INCONSISTENCIES TO THE ARCHITECT.
  3. ALL CEILING MOUNTED ITEMS SHALL BE CENTERED OR SYMMETRICALLY LOCATED IN LAY-IN PANELS OR IN GYP. BD. CEILINGS LOCATED IN A CONSISTENT PATTERN, UNLESS OTHERWISE INDICATED. COORDINATE FINAL LIGHT FIXTURE LAYOUT AT GYPSUM BOARD CEILINGS WITH ARCHITECT.
  4. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE TYPES/SPECIFICATIONS.
  5. ALL CEILINGS ARE TO COMPLY WITH SEISMIC DESIGN CLASS D WITH LATERAL FORCE POINT BRACING - REFER DETAIL ABOVE.
  6. ALL NEW GYPSUM BOARD CEILINGS SHALL BE PAINTED PT 4, U.O.
  7. REFER TYPICAL CEILING TRANSITION DETAILS NOTED ON SHEET AB.04. COORDINATE GYPSUM BOARD SOFFITS AND FASCIA HEIGHTS WITH STRUCTURAL TRANSITIONS.
  8. REFER ELECTRICAL DRAWINGS FOR THE LOCATIONS OF ALL CEILING MOUNTED SMOKE DETECTORS, OCCUPANCY SENSORS, SPEAKERS, EXISTING FIRE ALARM DEVICE AND WALL MOUNTED EXT. LIGHTS, ETC.
  9. AT LOCATIONS WHERE STRUCTURE IS EXPOSED ALL STRUCTURE, DECKING, PIPES, DUCTS, CONDUIT, ETC. TO BE PAINTED.
- GENERAL SEISMIC NOTES FOR ALL CEILINGS:**
1. BRACING OF ACOUSTICAL TILE CEILINGS SHALL COMPLY WITH REQUIREMENTS FOR SEISMIC DESIGN CLASS 'D' OF SECTIONS 11.6 AND 13.5.6 OF ASCE 7, IBC SECTION 1613, AND ASTM D635, ASTM C636, AND ASTM E580. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND FOR DELEGATED DESIGN REQUIREMENTS.
  2. PERIMETER CLOSURE MUST BE A MINIMUM OF 2" CONNECTED TO PERIMETER ON TWO ADJACENT SIDES. PROVIDED WITH A 3" CLEARANCE ON TWO UNATTACHED ADJACENT SIDES, AND SUPPORTED BY VERTICAL HANGER WIRES NOT MORE THAN 6" FROM THE WALL. UNATTACHED PERIMETER RUNNER ENDS SHALL BE TIED TOGETHER.
  3. INDEPENDENTLY SUPPORTED PENETRATIONS SHALL HAVE CLOSURES PERMITTING A MINIMUM 1" MOVEMENT IN ALL DIRECTIONS.
  4. LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE GRID BY AT LEAST TWO CONNECTIONS, EACH CAPABLE OF SUPPORTING THE WEIGHT OF THE LIGHT FIXTURE. LIGHT FIXTURES SHALL HAVE A MINIMUM OF ONE NO. 12 GAGE WIRE CONNECTED TO THE HOUSING AND STRUCTURE ABOVE FOR FIXTURES 10 LBS OR LESS; TWO WIRES FOR FIXTURES 10 LBS - 50 LBS. AND 12 GAGE WIRE MUST BE ATTACHED TO THE GRID MEMBERS WITHIN 3" OF EACH CORNER OF THE LIGHT FIXTURE, UNLESS CROSS TEE RATING IS GREATER THAN OR EQUAL TO 16 LBS/FT. PENDANT-HUNG LIGHT FIXTURES SHALL BE SUPPORTED BY A MINIMUM ONE NO. 12 GAGE WIRE TO STRUCTURE ABOVE.
  5. FLEXIBLY MOUNTED MECHANICAL SERVICES SHALL BE POSITIVELY ATTACHED TO MAIN RUNNERS, OR CROSS RUNNERS WITH THE SAME LOAD-CARRYING CAPACITY AS THE MAIN RUNNERS. EQUIPMENT WEIGHING BETWEEN 20 LBS - 50 LBS REQUIRE TWO NO. 12 GAGE HANGER WIRES CONNECTED TO THE FIXTURE HOUSING ON OPPOSITE CORNERS AND CONNECTED TO STRUCTURE ABOVE.
  6. BRACING IS REQUIRED FOR CEILING PLANE ELEVATION CHANGES.
  7. PARTITION BRACING SHALL BE INDEPENDENT OF THE CEILING.
- GENERAL NOTES FOR LATERAL FORCE BRACING (CEILINGS GREATER THAN 1,000 SQUARE FEET):**
1. PROVIDE LATERAL FORCE BRACING POINTS AT ALL CONTINUOUS SUSPENDED ACOUSTICAL LAY-IN PANEL CEILINGS AT 12'-0" OC IN BOTH DIRECTIONS WITH FIRST POINT AND LAST POINTS OF EACH ROW WITHIN 6" OF TWO ADJACENT WALLS. LATERAL FORCE BRACING CONNECTION STRENGTH TO STRUCTURE SHALL BE 250 LBS MINIMUM.
  2. SEISMIC SEPARATION JOINTS ARE REQUIRED FOR CEILINGS LARGER THAN 2,500 SQUARE FEET AND MUST HAVE A RATIO OF THE LONG SIDE TO THE SHORT SIDE OF LESS THAN OR EQUAL TO 4:1.

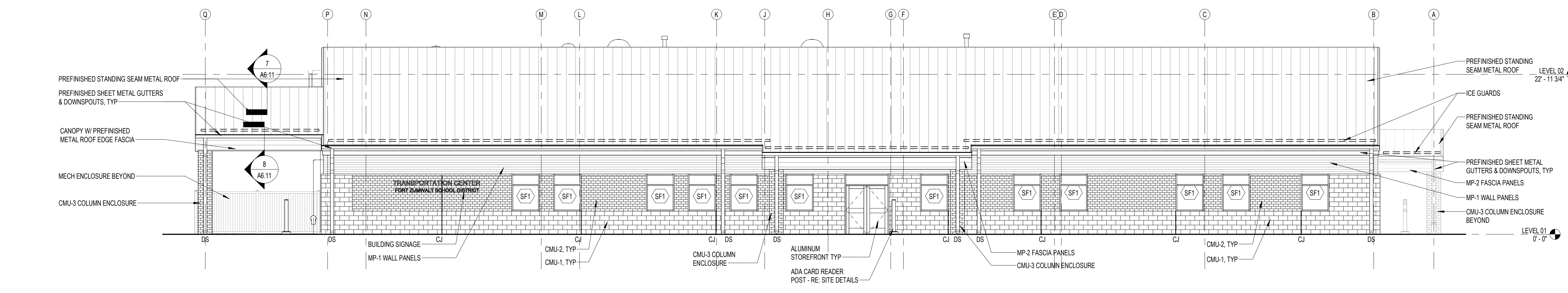




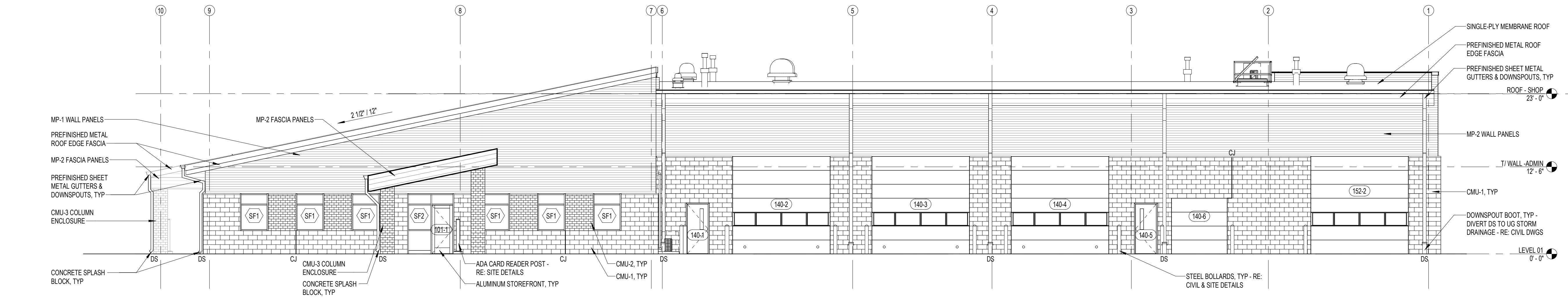
4 WEST BUILDING ELEVATION  
A5.01 1/8" = 1'-0"



3 SOUTH BUILDING ELEVATION  
A5.01 1/8" = 1'-0"



2 EAST BUILDING ELEVATION  
A5.01 1/8" = 1'-0"



1 NORTH BUILDING ELEVATION  
A5.01 1/8" = 1'-0"

**ELEVATION LEGEND**

- MP-1 PREFINISHED METAL WALL PANELS
- MP-2 PREFINISHED L-SHAPE METAL SOFFIT & FASCIA PANELS
- CMU-1 8"X 16"X 4" (NOMINAL) - SPLIT FACE WITH INTEGRAL COLOR (TBO)
- CMU-2 4"X 8"X 4" (NOMINAL) SMOOTH-FACE WITH INTEGRAL COLOR (TBO)
- CMU-3 4"X 8"X 8" (NOMINAL) SMOOTH-FACE CMU - COLOR TO MATCH CMU-2



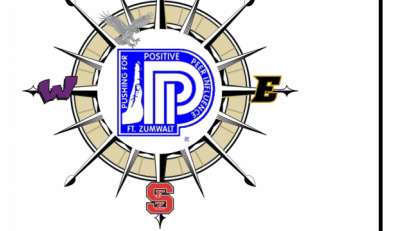
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MEMBER CERTIFICATE OF AUTHORITY NO. SURVEYING 80054



**FORT ZUMWALT  
TRANSPORTATION CENTER**  
TOWNSHIP 47 NORTH, RANGE 4 EAST  
ST. PETERS, MO 63376

**BUILDING ELEVATIONS**



JOB NUMBER 224205

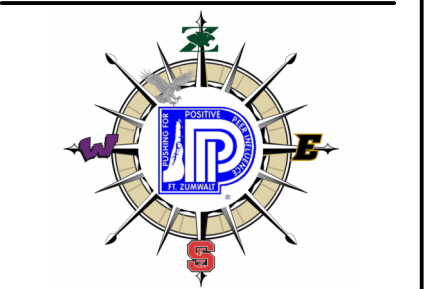
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REVISIONS:  
2 Addendum 03

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A5.01





**FORT ZUMWALT  
TRANSPORTATION CENTER**  
TOWNSHIP 47 NORTH, RANGE 4 EAST  
ST. PETERS, MO 63376

**FOUNDATION PLAN**



JOB NUMBER: 224205  
DATE: 08/13/2024

REVISIONS:  
1. Addressed 01  
2. Addressed 03

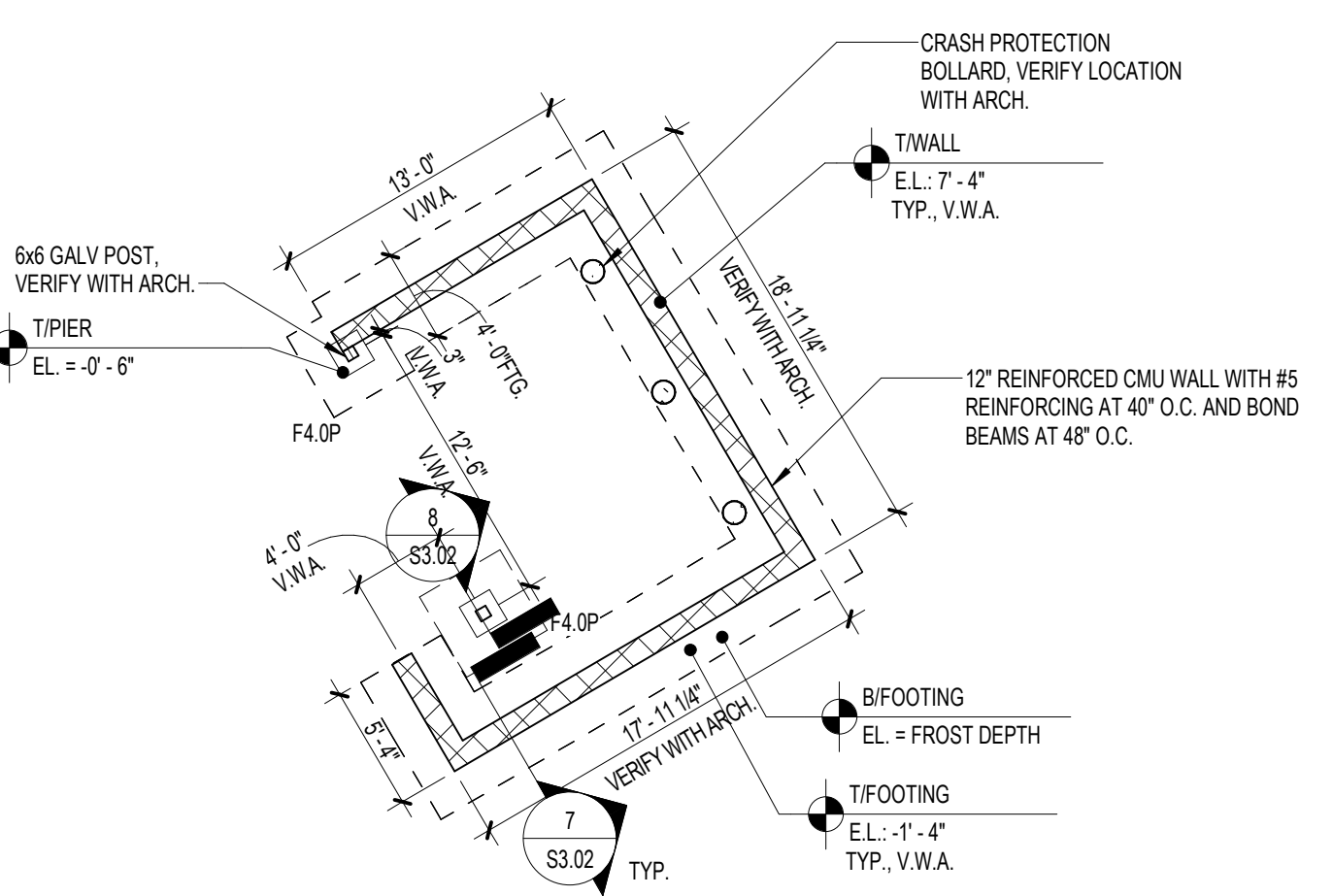
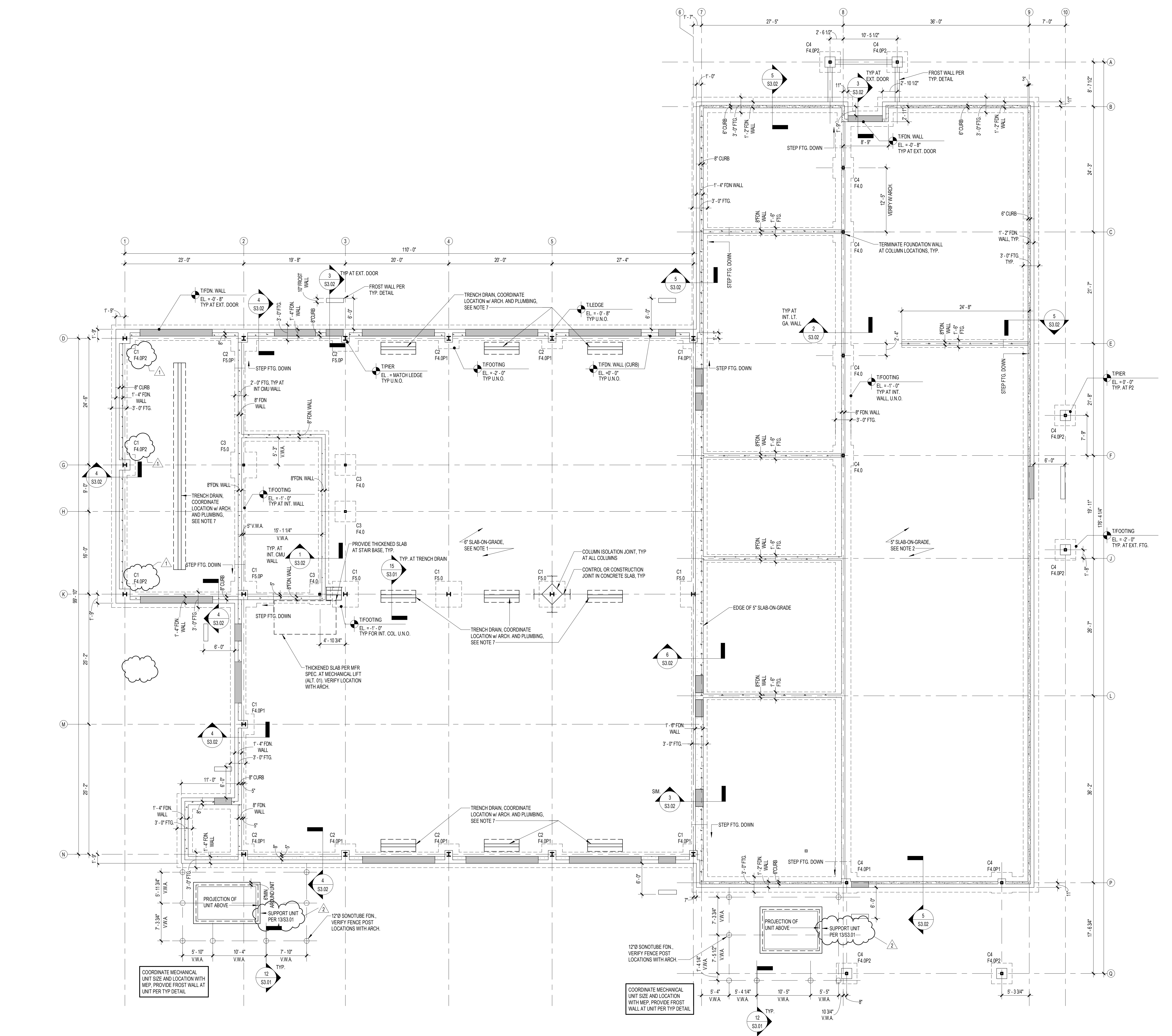
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S2.01

	C1	C2	C3	C4
SHOP ROOF LEVEL				
OFFICE ROOF LEVEL				
MEZZANINE FLOOR LEVEL				
FIRST LEVEL	W08X48	W08X48	W12X48	W12X48
BASE PLATE	T	3/4"	3/4"	3/4"
	Nx8	1-1/2x1-1/2"	1-1/2x1-1/2"	0-10x0-10"
ANCHOR BOLT	QTY.	4	4	4
	SIZE	3/4"x0	3/4"x0	3/4"x0

NOTE:  
SEE TYPICAL COLUMN BASE PLATE DETAIL FOR ADDITIONAL INFO

MARK	LENGTH	WIDTH	THICKNESS	REINFORCEMENT		PIER	TIES	REMARKS
				LONGWAY	SHORTWAY			
F4.0P1	4'-0"	4'-0"	1'-0"	#5 AT 12"	#5 AT 12"	18"x18"	10#6	#3 AT 12"
F4.0P2	4'-0"	4'-0"	1'-0"	#5 AT 12"	#5 AT 12"	24"x24"	10#6	#3 AT 12"
F4.0	4'-0"	4'-0"	1'-0"	#5 AT 12"	#5 AT 12"	---	---	---
F5.0P	5'-0"	5'-0"	1'-0"	#5 AT 12"	#5 AT 12"	18"x18"	10#6	#5 AT 12"
F5.0	5'-0"	5'-0"	1'-0"	#5 AT 12"	#5 AT 12"	---	---	---

NOTE:  
1. PROVIDE TOP AND BOTTOM BARS AT TRASH ENCLOSURE FOOTINGS. FOOTING THICKNESS TO MATCH NEARBY STRIP FOOTING DEPTH



**FOUNDATION PLAN**  
1/8" = 1'-0"  
S2.01

NOTES:  
1. AT SHOP, PROVIDE 6" SLAB ON-GRADE REINFORCED WITH (2) 6x6-W2 8W23 WWF OVER VAPOR RETARDER, 6" GRANULAR FILL AND ENGINEERED SUBGRADE. PROVIDE CONTROL OR CONSTRUCTION JOINTS PER ARCH. AND AT 15' MAX.  
2. AT OFFICES, PROVIDE 5" SLAB ON-GRADE REINFORCED WITH 6x6-W2 8W23 WWF OVER VAPOR RETARDER, 6" GRANULAR FILL AND ENGINEERED SUBGRADE. PROVIDE CONTROL OR CONSTRUCTION JOINTS PER ARCH. AND AT 15' MAX.  
3. TOP OF SLAB REFERENCE ELEVATION = 0'-0". VERIFY W/ CIVIL.  
4. EXISTING FILL, TOP SOIL, DEBRIS AND ETC. SHALL BE REMOVED UNTIL NATURAL UNDISTURBED SOIL IS REACHED PER RECOMMENDATIONS FROM GEOTECHNICAL ENGINEER. 2'-0" SOIL REMEDIATION IS REQUIRED AT FOOTING AND 3'-0" SOIL REMEDIATION IS REQUIRED AT SLAB-ON-GRADE ON SOIL FILL AS DESCRIBED IN THE GEOTECHNICAL REPORT.  
5. ALL EXCAVATION, SUBGRADE PREPARATION AND BACKFILL TO PROJECT ELEVATIONS SHALL BE PERFORMED UNDER DIRECT SUPERVISION OF GEOTECHNICAL ENGINEER RETAINED BY THE CONTRACTOR. AND IBC SPECIAL INSPECTIONS SHALL BE PROVIDED PER GENERAL NOTE 6.  
6. "C1", "F4" AND "F5" DENOTE COLUMN, CONCRETE FOOTING AND CONCRETE FOOTING WITH PER. SEE SCHEDULES.  
7. REINFORCED THICKENED SLAB, OFFSET CONTROL CONSTRUCTION JOINT PER TYPICAL DETAIL WHERE JOINT COINCIDES WITH THICKENED SLAB.  
8. MISC. STEEL, WOOD OR CONCRETE REQUIRED BY OTHER DISCIPLINES MAY NOT BE INDICATED ON STRUCTURAL DRAWINGS.