



Salem State University

JONES ARCH

Addendum #05

ADMINISTRATION BUILDING ROOF AND SIDEWALK REPLACEMENT
Salem State University – North Campus
Salem, MA

MASS. STATE PROJECT NO. SSU-2021-A Contract #1
CAMIS NO. J226800
JONES ARCHITECTURE PROJECT NO. 2011

September 07, 2020

A. INSTRUCTIONS TO CONTRACTORS

- Bidders shall review ALL contract drawings to determine full scope of work for their respective trades.

B. SPECIFICATION CHANGES

- Answered in narrative form below. Formal changes to the specifications to be issued with Conforming Set.
- Section 054000 COLD-FORMED METAL FRAMING was omitted from the Bid Documents and is attached herein.

C. DRAWING CHANGES

- Refer to attached SKA-004. Formal drawing changes to be issued with Conforming Set.

D. BIDDER RFIS AND ANSWERS

General

1. ARTICLE 2 OF THE OWNER CONTRACTOR AGREEMENT STATES THE TIME FOR COMPLETION AS 100 DAYS AFTER THE NOTICE TO PROCEED.
 - a. Q. WHEN IS THE CONTRACT EXPECTED TO BE AWARDED?
A: Expect award within one week, barring any irregularities.



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- b. Q. EVEN IF THE CONTRACT IS AWARDED IMMEDIATELY AFTER THE BID THIS TIMELINE DOESN'T ALLOW FOR SUBCONTRACTS TO BE PROCESSED, SUBMITTALS TO BE RECEIVED AND APPROVED, MATERIALS TO BE ORDERED, ETC. I'VE ALREADY SPOKEN TO (2) LARGE PRE-CAST COMPANIES AND THEIR PRODUCTION SCHEDULES ARE INTO OCTOBER ALREADY WHICH MEANS THAT THE PRE-CAST WOULDN'T BE AVAILABLE UNTIL LATE NOVEMBER OR LATER GIVEN THAT IT WOULDN'T BE ORDERED FOR ANOTHER MONTH AT LEAST.
A. The 100 day timeline is a preliminary. GC and Owner may find it necessary to amend schedule in Contract if 100 days is unrealistic. GC may propose a schedule in bid.
- c. Q. THIS SEEMS LIKE AN EXTREMELY TIGHT TIMELINE, ESPECIALLY GIVEN THE TIME OF YEAR IT'S GOING TO BE AWARDED. IS THE START DATE EXPECTED TO BE IN THE SPRING?
A. This question was resolved in Addendum #4. Project start is ASAP (October 2020). As noted above, GC may propose a schedule.
2. Q. SECTION 011100-B OF THE SPECIFICATIONS NOTES THAT THE HOURS ARE 8AM-5PM. TYPICALLY ROOFERS BEGIN EARLIER, AROUND 6AM AND OTHER TRADES AS WELL. WILL THIS BE ALLOWED?
A. The City ordinance does not allow work to begin before 7 AM Monday – Friday, and 8 AM on Saturdays. Assume 7 AM start is acceptable when coordinated with Owner.
3. Q. SECTION 011100-E OF THE SPECIFICATIONS SPEAKS ABOUT NOISE, VIBRATIONS AND ODORS. ALL OF THESE WILL BE TAKING PLACE ON THIS PROJECT. PLEASE ADVISE IF THE COSTS FOR WORKING OFF HOURS SHOULD BE INCLUDED IN THE BID PRICE OR NOT AND IF SO HOW MUCH OF THE WORK?
A. Some night and weekend work should be anticipated for very noisy tasks, abatement, and to accommodate weather dependent steam shutdowns. The building will be occupied weekdays from 7 AM – 7 PM.
4. Q. SECTION 015000-1.3 OF THE SPECIFICATIONS STATES THAT THE CONTRACTOR SHALL PAY FOR SEWER SERVICES, WATER SERVICES AND ELECTRICAL SERVICES. ARE WE TO PROVIDE METERS FOR EACH OF THESE UTILITIES? WE WOULD RECOMMEND THE OWNER PROVIDE THE USE OF THESE UTILITIES FOR THE CONTRACTORS AS THE COST WILL BE MUCH LESS TO THE PROJECT THAT WAY. PLEASE ADVISE.
A. Utilities will be provided by Owner.



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5. Q. SECTION 015000-2.2 OF THE SPECIFICATIONS STATES TO PROVIDE A FIELD OFFICE. IS THE ELECTRICAL FILED SUB BIDDER RESPONSIBLE FOR THE POWER AND INTERNET CONNECTION OF THIS FIELD OFFICE OR THE GC?
A. This question was resolved in Addendum #4 (Owner to provide office and power)
6. Q. THE TEMP FENCING & 8' WIDE PROTECTION CANOPY SHOWN ON G002 IS ASSUMED TO BE BY THE GC, PLEASE CONFIRM. IF THE STAGING, ETC. IS BY EACH FILED SUB BIDDER IT WOULD MAKE SENSE TO HAVE THE 8' WIDE PROTECTION BE INCLUDED IN THEIR PRICE AS WELL.
A. GC to provide protection canopy
7. Q. DRAWING A001, A100 & A510 FOR EXAMPLE NOTE TO TEMPORARILY REMOVE ALL, PIPING, CONDUIT AND APPURTENANCES AS REQUIRED. THE MEP DRAWINGS ONLY SEEM TO REFERENCE THE CEILING. PLEASE CLARIFY IF THIS IS THE INTENT? ARE ALL OF THE NEW AND EXISTING PIPES, ETC. TO BE PAINTED OR NO? REMOVED FOR PAINT OR NO?
A. Some temporary removal will be required for demo and installation of the new precast concrete slabs, particularly piping that is fastened to the ceiling in such proximity to the ceiling that removal is necessary. Wall mounted piping can likely remain in place during construction. MEP drawings and photographs attempt to define the scope as well as possible without delving into means and methods. All existing and new piping to be painted in place.
8. Q. NOTE #12 ON DRAWING A102 SAYS FOR THE GC TO HIRE A TESTING AGENCY TO INFRARED THE ROOF BEFORE AND AFTER CONSTRUCTION, BUT SPEC SECTION 014325 NOTES THE TESTING AGENCY AS BEING HIRED BY THE OWNER. PLEASE CLARIFY IF THIS IS BY THE OWNER OR THE GC.
A. 072100-3.5.B states that "Contractor shall engage a testing agency to perform infrared..." Also refer to 075400.3.8.C. The intent is that the GC provides infrared testing.
9. Q. I ASSUME THE ARROW FOR THE "NEW PARKING STRIPING" NOTED ON A110 IS JUST IN THE WRONG PLACE?
A. Correct, the leader is misplaced and should be pointing to the parking striping, not the sidewalk.
10. Q. REGARDING THE SITTING WALL SHOWN ON A110 AND DETAILS SHOWN ON A513 IS THE CONCRETE SUBSTRUCTURE BY THE GC OR THE MASONRY FILED SUB BIDDER? CAN YOU PLEASE PROVIDE



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STRUCTURAL DETAILS ON THIS AS THERE DOES NOT APPEAR TO BE ANY?

A. By GC/Concrete. Additional structural information provided in the attached sketch, SKA-004.

11. Q. GENERAL QUESTION FOR ALL OF THE FILED SUB BID TRADES, WHY ARE THERE BLOCKS ON SOME OF THE DRAWING NOTES STATING "BY MASONRY SUB-CONTRACTOR" FOR EXAMPLE, BUT NOT ALL OF THE NOTES?

A. Blocks are intended to be helpful in delineating scope but have not been included everywhere.

12. Q. ARE SECTIONS 061000, 077100, 077200 & 078410 PART OF THE ROOFING FILED SUB BID SECTION 070002? IF NOT, THEY SHOULD BE AS THE ROOFER CAN CONTROL THE FLOW OF WORK MORE EASILY DEPENDING ON CREW SIZE, ETC.

A: Whereas it may have been best to include 061000 (Rough Carpentry), 077100 (Roof Specialties) and 077200 (Roof Accessories) as part of Roofing FSB, it is now too late to change and must be included by the GC. Similar for Penetration Firestopping (078410).

13. Q. REGARDING SECTION 077200 THE TABLE OF CONTENTS AND SPEC SAYS THAT ITS NOT PART OF THE FILED SUB BID 070002, BUT THE DRAWINGS CLEARLY SHOW IT AS PART OF THE FILED SUB BID 070002 ON DRAWINGS A201 & A504 FOR EXAMPLE. PLEASE CLARIFY.

A: See response to question above. Specs govern over drawing notes, therefore Roof Accessories are By GC.

14. IS EACH FILED SUB BID TRADE RESPONSIBLE FOR THEIR OWN DEMO, DISPOSAL, ACCESS (LIFTS, STAGING, ETC.), MATERIAL HANDLING (CONSTRUCTION FORKLIFT, CRANE, ETC.)?

A. Yes.

15. Q. IS SECTION 079201 PART OF THE 070001 FILED SUB BID?

A. Resolved in Addendum #4 (Yes, 079201 Exterior Joint Sealant should be part of the 070001 Waterproofing sub bid)

16. Q. THE 1" INSULATION AND WATERPROOFING SHOWN IN THE DETAILS ON A512 ARE NOTED AS BY THE WATERPROOFING FILED SUB BIDDER, BUT WHAT ABOUT THE PITCHED CEMENTITIOUS THIN COAT IN SOME OF THE SAME NOTES?

A. Resolved in Addendum #4 (thin coat by GC)



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17. Q. THERE ARE NOTES ON A502 FOR THE GC TO FURNISH & INSTALL 8" CFMF. THIS ABBREVIATION IS NOT LISTED ON A000, PLEASE PROVIDE DIRECTION AS TO WHAT THIS IS AND VERIFY IF IT IS BY THE ROOFING FILED SUB BIDDER OR THE GC AS THERE IS A SEPARATE NOTE ON THE PAGE THAT STATES "BY ROOFING SUBCONTRACTOR TYPICAL".
- A. CFMF = Cold Formed Metal Framing. Spec section appears to have been omitted from the spec and is provided as an attachment to this Addendum. Since it is too late to be included by, CFMF shall be included by GC.
18. Q. CAN YOU PLEASE CLARIFY WHO OWNS MODIFYING THE EXISTING LADDERS ON A102 AND A103? IS IT BY THE ROOFING FILED SUB BIDDER, THE MISC. METALS FILED SUB BIDDER OR THE GC?
- A. Resolved in Addendum #4 (Misc Metals FSB)
19. Q. OUR SIGN SUBCONTRACTOR IS ASKING FOR A SIGNAGE DESIGN-INTENT/SCHEDULE. WILL A SIGNAGE DESIGN-INTENT / SCHEDULE BE ISSUED VIA ADDENDUM?
- A. Ignore signage - Section appears to be legacy from earlier spec and will be removed.

Attachments:

- Specifications: CFMF
- Revised Drawing
 - *SKA-004 Section Detail at Seat Wall*

SECTION 054000

COLD-FORMED METAL FRAMING

PART 1 - GENERAL

1.1 GENERAL PROVISIONS

- A. Attention is directed to the CONTRACT AND GENERAL CONDITIONS and all Sections within DIVISION 01 - GENERAL REQUIREMENTS which are hereby made a part of this Section of the Specifications.

1.2 DESCRIPTION OF WORK

- A. Work Included: Provide labor, materials and equipment necessary to complete the work of this Section, including but not limited to the following:
 - 1. Exterior non-load-bearing wall framing at roof perimeters.

1.3 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Design framing, including comprehensive engineering analysis by a qualified professional engineer, using performance requirements and design criteria indicated.
- B. Structural Performance: Provide cold-formed metal framing capable of withstanding design loads within limits and under conditions indicated.
 - 1. Design Loads: As required by code.
 - 2. Deflection Limits: Design framing systems to withstand design loads within deflections greater than the following:
 - a. Exterior Non-Load-Bearing Framing:
 - 1) Horizontal deflection of $l/240$ of the wall height for metal panel systems.
 - 2) Horizontal deflection of $1/600$ of the wall height for masonry systems.
 - 3. Design framing systems to provide for movement of framing members without damage or overstressing, sheathing failure, connection failure, undue strain on fasteners and anchors, or other detrimental effects when subject to a maximum ambient temperature change of 120 deg F.
 - 4. Design framing system to maintain clearances at openings, to allow for construction tolerances, and to accommodate live load, plus superimposed dead load, deflection of primary building structure.
- C. Cold-Formed Steel Framing, General: Design according to AISI's "Standard for Cold-Formed Steel Framing - General Provisions."
 - 1. Design exterior non-load-bearing wall framing to accommodate horizontal deflection without regard for contribution of sheathing materials.

1.4 SUBMITTALS

- A. Product Data: For each type of cold-formed metal framing product and accessory indicated.
- B. Shop Drawings: Show layout, spacings, sizes, thicknesses, and types of cold-formed metal framing; fabrication; and fastening and anchorage details, including mechanical fasteners. Show reinforcing channels, opening framing, supplemental framing, strapping, bracing, bridging, splices, accessories, connection details, and attachment to adjoining work.
 - 1. Shop drawings shall be signed and sealed by a professional engineer currently licensed in the Commonwealth of Massachusetts.
- C. Delegated-Design Submittal: For framing indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
- D. Welding certificates.
- E. Qualification Data: For professional engineer.
- F. Product Test Reports: From a qualified testing agency, unless otherwise stated, indicating that each of the following complies with requirements, based on evaluation of comprehensive tests for current products:
 - 1. Steel sheet.
 - 2. Expansion anchors.
 - 3. Power-actuated anchors.
 - 4. Mechanical fasteners.
 - 5. Vertical deflection clips.
 - 6. Miscellaneous structural clips and accessories.

1.5 QUALITY ASSURANCE

- A. Engineering Responsibility: Preparation of Shop Drawings, design calculations, and other structural data by a qualified professional engineer.
- B. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in the jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of cold-formed metal framing that are similar to those indicated for this Project in material, design, and extent.
- C. Product Tests: Mill certificates or data from a qualified independent testing agency, or in-house testing with calibrated test equipment indicating steel sheet complies with requirements, including base-metal thickness, yield strength, tensile strength, total elongation, chemical requirements, ductility, and metallic-coating thickness.
- D. Welding: Qualify procedures and personnel according to AWS D1.1/D1.1M, "Structural Welding Code--Steel," and AWS D1.3, "Structural Welding Code--Sheet Steel."
- E. AISI Specifications and Standards: Comply with AISI's "North American Specification for the Design of Cold-Formed Steel Structural Members" and its "Standard for Cold-Formed Steel Framing - General Provisions."

1. Comply with AISI's "Standard for Cold-Formed Steel Framing - Truss Design."
2. Comply with AISI's "Standard for Cold-Formed Steel Framing - Header Design."

F. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 01.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Protect cold-formed metal framing from corrosion, deformation, and other damage during delivery, storage, and handling.
- B. Store cold-formed metal framing, protect with a waterproof covering, and ventilate to avoid condensation.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering cold-formed metal framing that may be incorporated into the Work include, but are not limited to, the following:
 1. California Expanded Metals Co. (CEMCO).
 2. ClarkDietrich Building Systems.
 3. EB Metal U.S.
 4. Marino\WARE.
 5. Super Stud Building Products Inc.

2.2 MATERIALS

- A. Steel Sheet: ASTM A 1003/A 1003M, Structural Grade, Type H, metallic coated, of grade and coating weight as follows:
 1. Grade: As required by structural performance.
 2. Coating: G90.
- B. Steel Sheet for Vertical Deflection Clips: ASTM A 653/A 653M, structural steel, zinc coated, of grade and coating as follows:
 1. Grade: As required by structural performance.
 2. Coating: G90 (Z275).

2.3 EXTERIOR NON-LOAD-BEARING WALL FRAMING

- A. Steel Studs: Manufacturer's standard C-shaped steel studs, of web depths indicated, punched, with stiffened flanges, and as follows:
 1. Minimum Base-Metal Thickness: 0.0538 inch (16 gauge).
- B. Steel Track: Manufacturer's standard U-shaped steel track, of web depths indicated, unpunched, with unstiffened flanges, and as follows:

1. Minimum Base-Metal Thickness: Matching steel studs.
 2. Flange Width: 1-1/4 inches.
- C. Vertical Deflection Clips: Manufacturer's standard clips, capable of accommodating upward and downward vertical displacement of primary structure through positive mechanical attachment to stud web.
1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. ClarkDietrich Building Systems.
 - b. MarinoWARE, a division of Ware Industries.
 - c. The Steel Network, Inc.
- 2.4 FRAMING ACCESSORIES
- A. Fabricate steel-framing accessories from steel sheet, ASTM A 1003/A 1003M, Structural Grade, Type H, metallic coated, of same grade and coating weight used for framing members.
 - B. Provide accessories of manufacturer's standard thickness and configuration, unless otherwise indicated.
- 2.5 ANCHORS, CLIPS, AND FASTENERS
- A. Steel Shapes and Clips: ASTM A 36/A 36M, zinc coated by hot-dip process according to ASTM A 123/A 123M.
 - B. Anchor Bolts: ASTM F 1554, threaded carbon-steel bolts, and carbon-steel nuts; and flat, hardened-steel washers; zinc coated by hot-dip process according to ASTM A 153/A 153M, Class C.
 - C. Expansion Anchors: Fabricated from corrosion-resistant materials, with capability to sustain, without failure, a load equal to 5 times design load, as determined by testing per ASTM E 488 conducted by a qualified independent testing agency.
 1. Acceptable Manufacturers: Kwik-Bolt 3 by Hilti, Inc., TruBolt Wedge Anchor by ITW Red Head or Power-Stud by Powers Fasteners.
 - D. Power-Actuated Anchors: Fastener system of type suitable for application indicated, fabricated from corrosion-resistant materials, with capability to sustain, without failure, a load equal to 10 times design load, as determined by testing per ASTM E 1190 conducted by a qualified independent testing agency.
 - E. Mechanical Fasteners: ASTM C 1513, corrosion-resistant-coated, self-drilling, self-tapping steel drill screws.
 1. Head Type: Low-profile head beneath sheathing, manufacturer's standard elsewhere.
 - F. Welding Electrodes: Comply with AWS standards.

2.6 MISCELLANEOUS MATERIALS

- A. Galvanizing Repair Paint: High-zinc-dust-content paint for regalvanizing welds in steel, complying with SSPC-Paint 20.
 - 1. Provide interior, field-applied primer with a VOC content of 250 g/L or less.
- B. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107. Provide grout specifically recommended by manufacturer for interior and exterior applications.
 - 1. Basis of Design: Sika; SikaGrout 212.
 - 2. VOC Content: 0 g/L.
- C. Shims: Load bearing, high-density multimonomer plastic, nonleaching.
- D. Sill Sealer Gaskets: Closed-cell foam, 1/4 inch thick, selected from manufacturer's standard widths to match width of bottom track or rim track members.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine supporting substrates and abutting structural framing for compliance with requirements for installation tolerances and other conditions affecting performance.
 - 1. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Before sprayed fire-resistive materials are applied, attach continuous angles, supplementary framing, or tracks to structural members indicated to receive sprayed fire-resistive materials.
- B. After applying sprayed fire-resistive materials, remove only as much of these materials as needed to complete installation of cold-formed framing without reducing thickness of fire-resistive materials below that are required to obtain fire-resistance rating indicated. Protect remaining fire-resistive materials from damage.
- C. Install sill sealer gaskets to isolate the underside of wall bottom track or rim track and the top of foundation wall or slab at stud or joist locations.

3.3 INSTALLATION, GENERAL

- A. Cold-formed metal framing may be shop or field fabricated for installation, or it may be field assembled.
- B. Install cold-formed metal framing according to AISI's "Standard for Cold-Formed Steel Framing - General Provisions" and to manufacturer's written instructions unless more stringent requirements are indicated.
- C. Install cold-formed metal framing and accessories plumb, square, and true to line, and with connections securely fastened.

1. Cut framing members by sawing or shearing; do not torch cut.
 2. Fasten cold-formed metal framing members by welding, screw fastening, clinch fastening, or riveting. Wire tying of framing members is not permitted.
- D. Install framing members in one-piece lengths unless splice connections are indicated for track or tension members.
- E. Install temporary bracing and supports to secure framing and support loads comparable in intensity to those for which structure was designed. Maintain braces and supports in place, undisturbed, until entire integrated supporting structure has been completed and permanent connections to framing are secured.
- F. Do not bridge building expansion and control joints with cold-formed metal framing. Independently frame both sides of joints.
- G. Fasten hole reinforcing plate over web penetrations that exceed size of manufacturer's standard punched openings.
- H. Erection Tolerances: Install cold-formed metal framing level, plumb, and true to line to a maximum allowable tolerance variation of 1/8 inch in 10 feet and as follows:
1. Space individual framing members no more than plus or minus 1/8 inch from plan location. Cumulative error shall not exceed minimum fastening requirements of sheathing or other finishing materials.

3.4 EXTERIOR NON-LOAD-BEARING WALL INSTALLATION

- A. Install continuous tracks sized to match studs. Align tracks accurately and securely anchor to supporting structure as indicated.
- B. Fasten both flanges of studs to top and bottom track, unless otherwise indicated. Space studs as follows:
1. Stud Spacing: 16 inches.
- C. Set studs plumb, except as needed for diagonal bracing or required for nonplumb walls or warped surfaces and similar requirements.
- D. Isolate non-load-bearing steel framing from building structure to prevent transfer of vertical loads while providing lateral support.
- E. Install horizontal bridging in wall studs, spaced in rows indicated on Shop Drawings but not more than 48 inches apart. Fasten at each stud intersection.
- F. Install miscellaneous framing and connections, including stud kickers, web stiffeners, clip angles, continuous angles, anchors, fasteners, and stud girts, to provide a complete and stable wall-framing system.

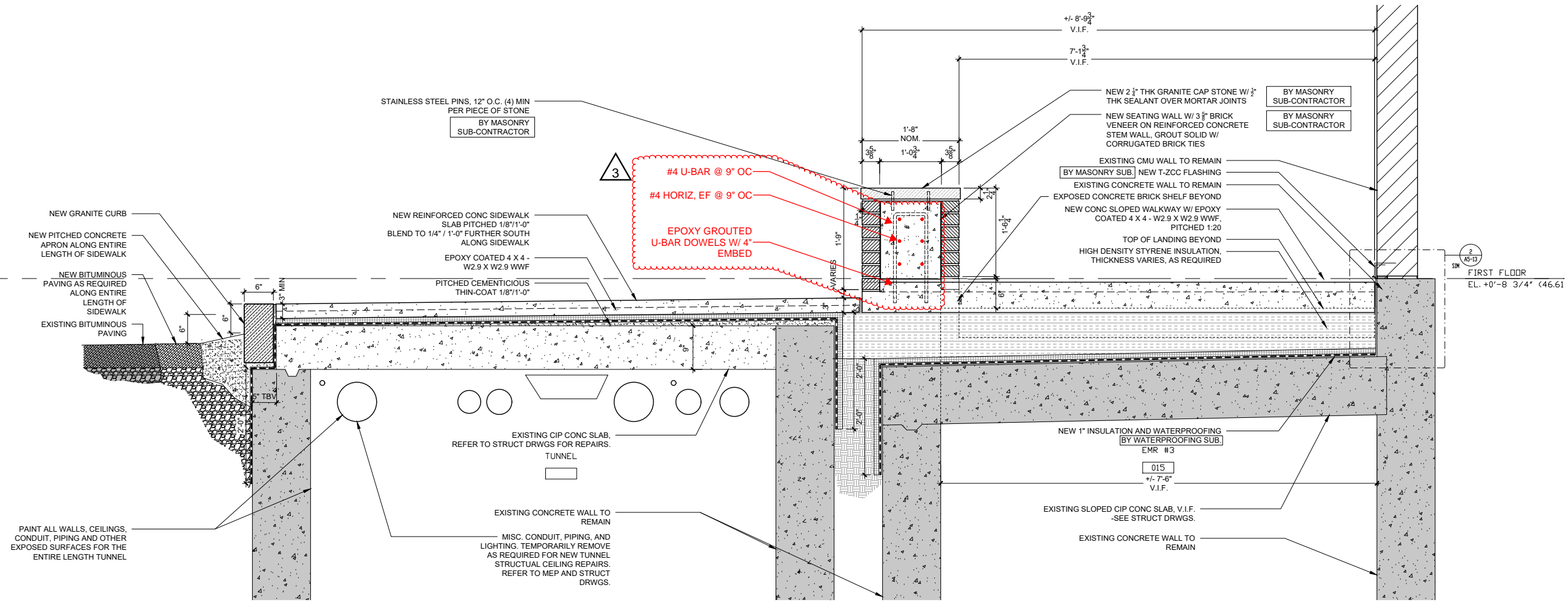
3.5 REPAIRS AND PROTECTION

- A. Galvanizing Repairs: Prepare and repair damaged galvanized coatings on fabricated and installed cold-formed metal framing with galvanized repair paint according to ASTM A 780 and manufacturer's written instructions.

- B. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and Installer, that ensure that cold-formed metal framing is without damage or deterioration at time of Substantial Completion.

END OF SECTION

SEE REVISION:
 3 ADDENDUM 5



1 SECTION DETAIL AT SIDEWALK AND ELEVATOR MACHINE ROOM
 1/2" = 1'-0"

DATE:
 SEPT 7, 2020

PROJECT #:
 SSU 2021-A
 CONTRACT #1

SCALE:
 AS NOTED

DRAWING TITLE:
 REVISED SECTION
 DETAIL AT SEATWALL