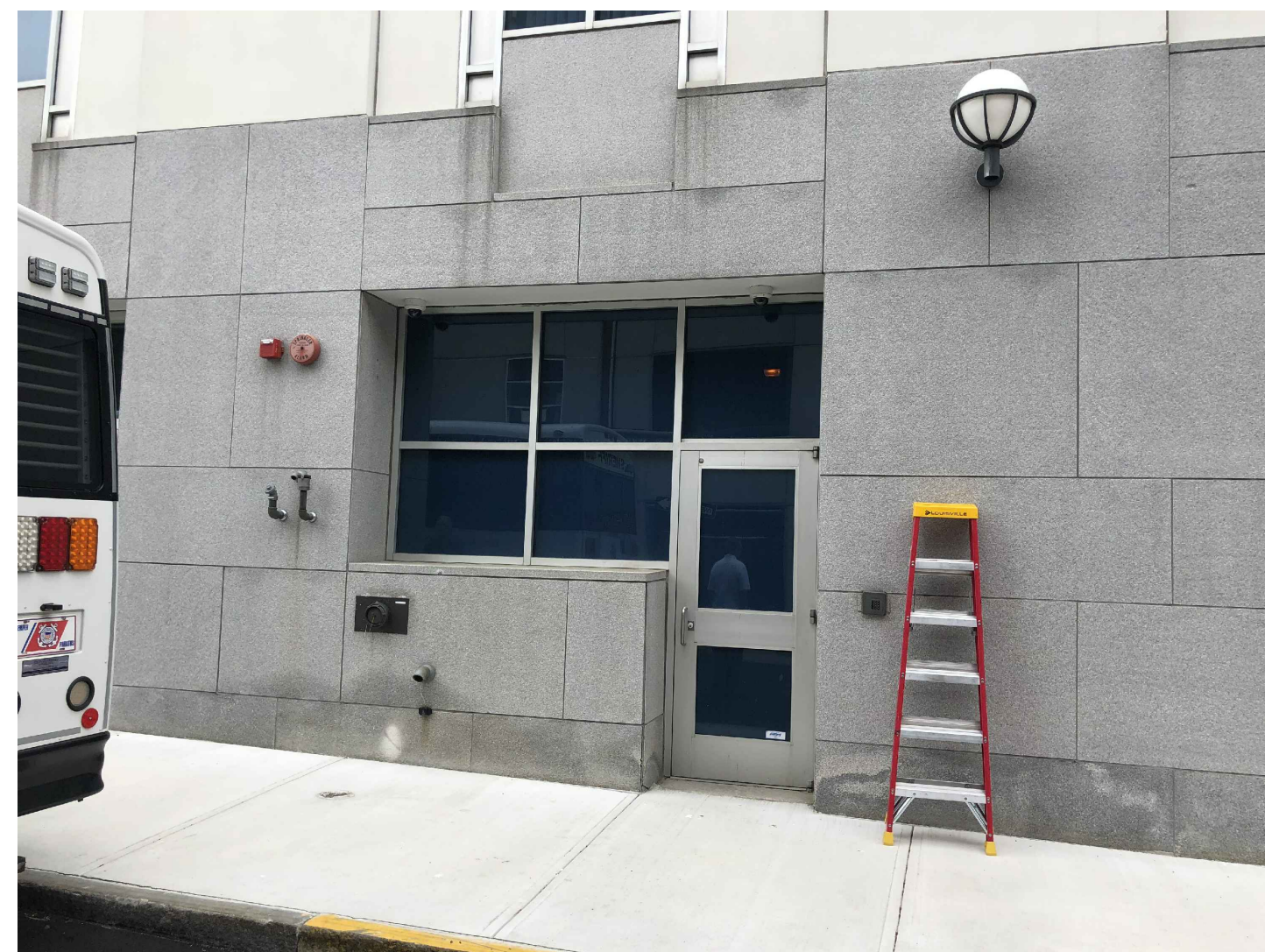
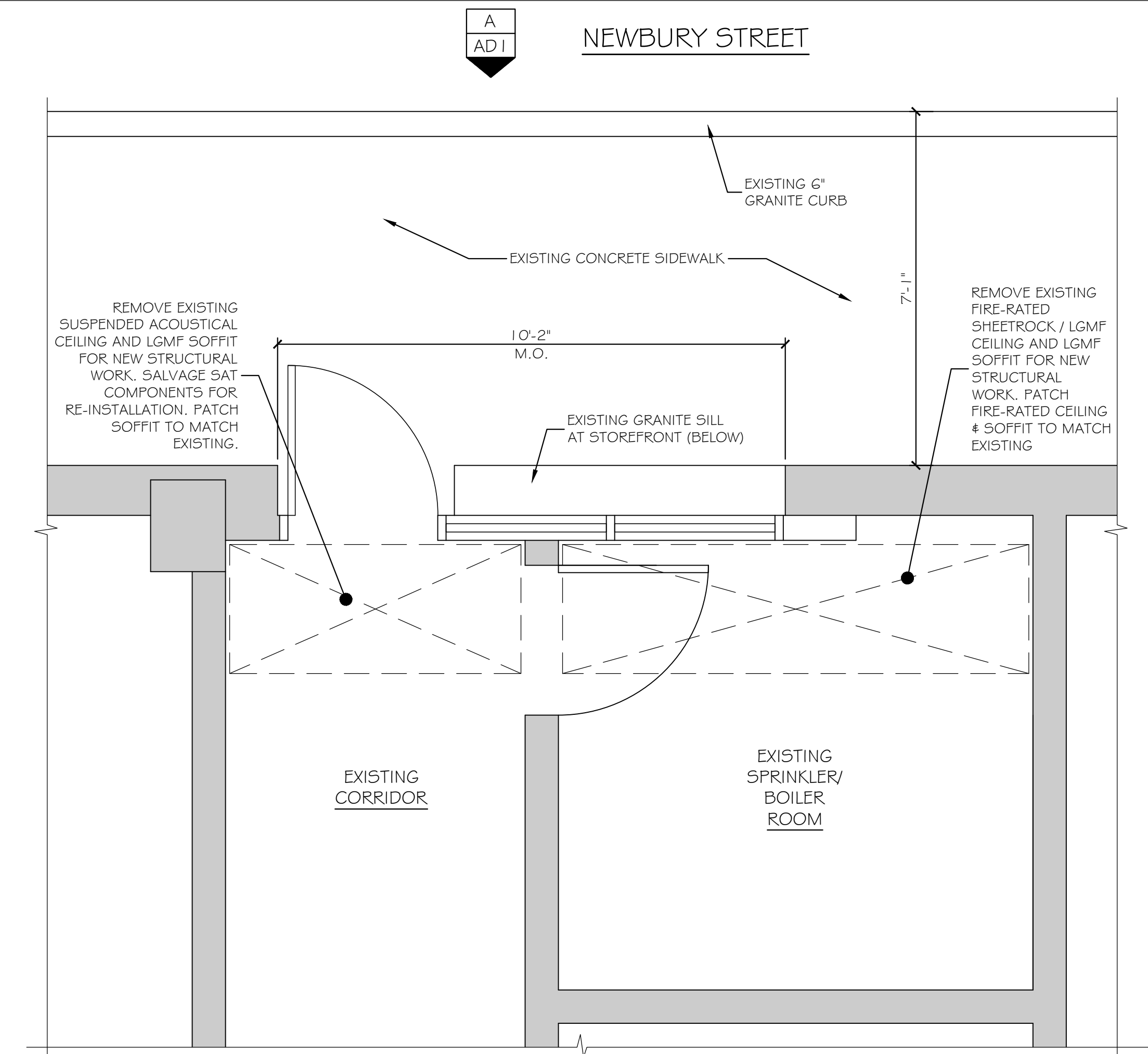


**EXISTING BUILDING**  
SCALE: 1/16" = 1'-0"

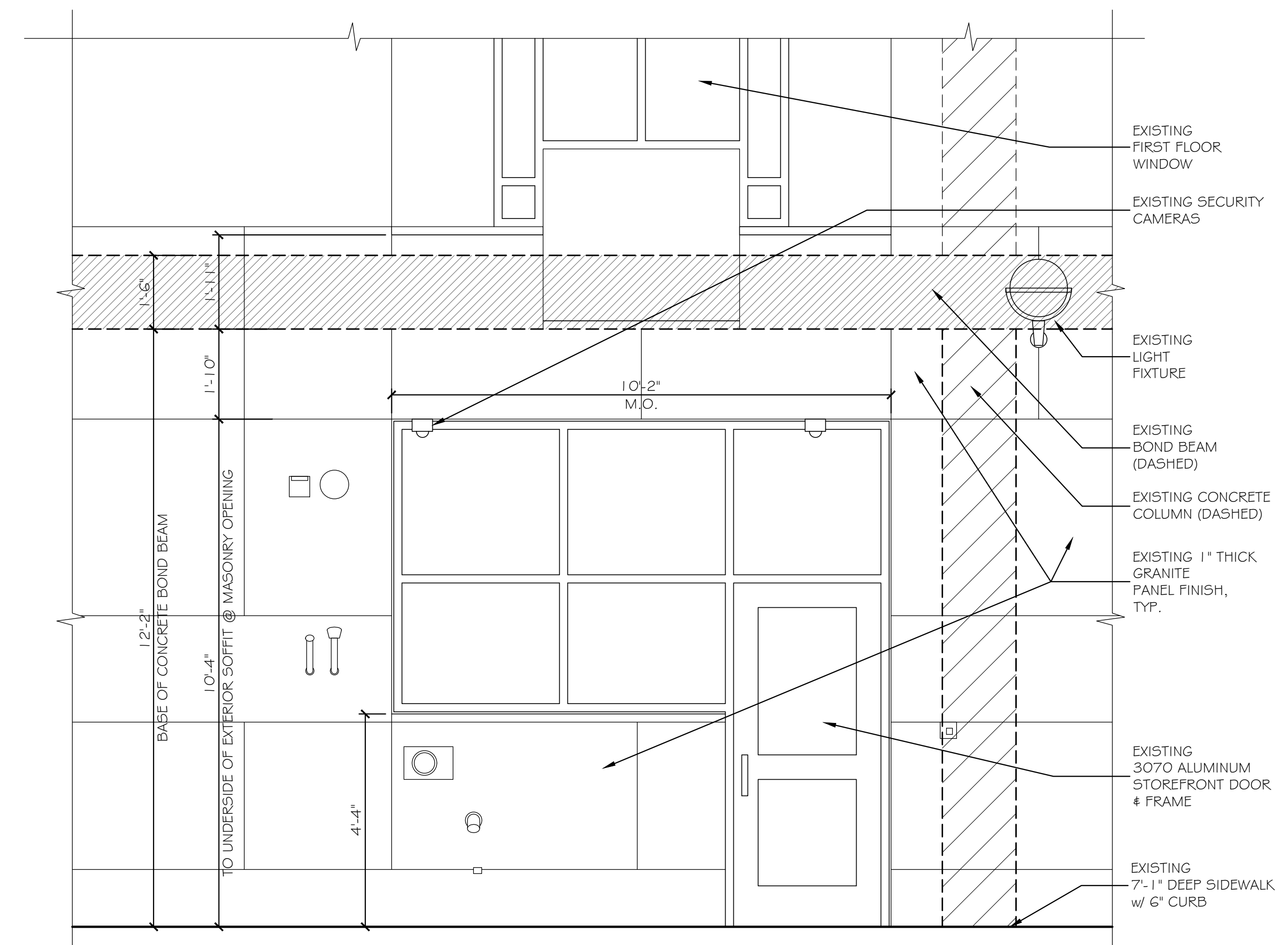


**EXISTING CONDITIONS PHOTOGRAPH**

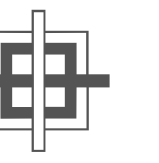
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**A EXISTING / DEMOLITION JUDGES' ENTRANCE**  
SCALE: 1/2" = 1'-0"  
NOTE: SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION AT GRANITE PANELS & CONCRETE / CMU STRUCTURE.



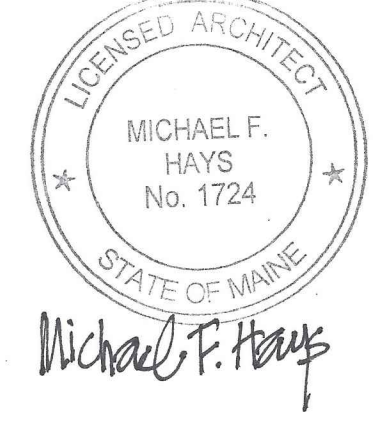
**A EXISTING JUDGES' ENTRANCE ELEVATION**  
SCALE: 1/2" = 1'-0"



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CUMBERLAND COUNTY COURTHOUSE  
205 NEWBURY STREET  
PORTLAND, MAINE 04101

SHEET

EXISTING  
CONDITIONS PLAN  
& ELEVATION

DATE  
4 OCT 2018

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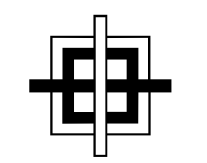
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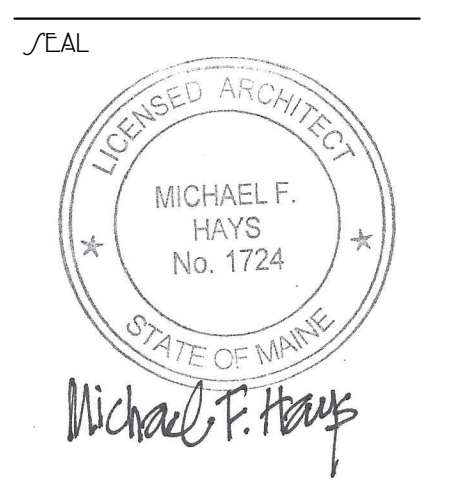
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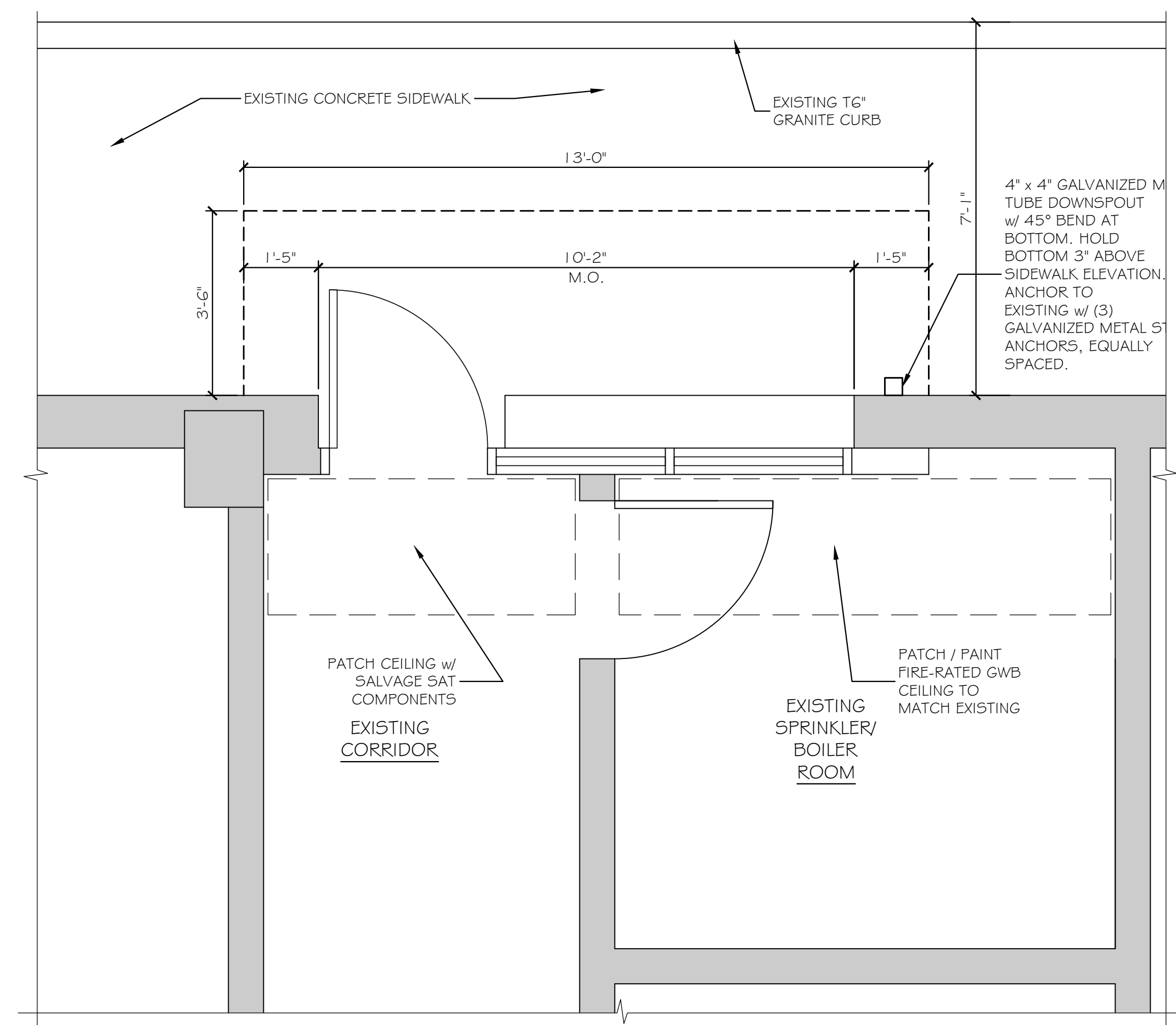
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PROPOSED  
CANOPY PLAN  
& ELEVATION

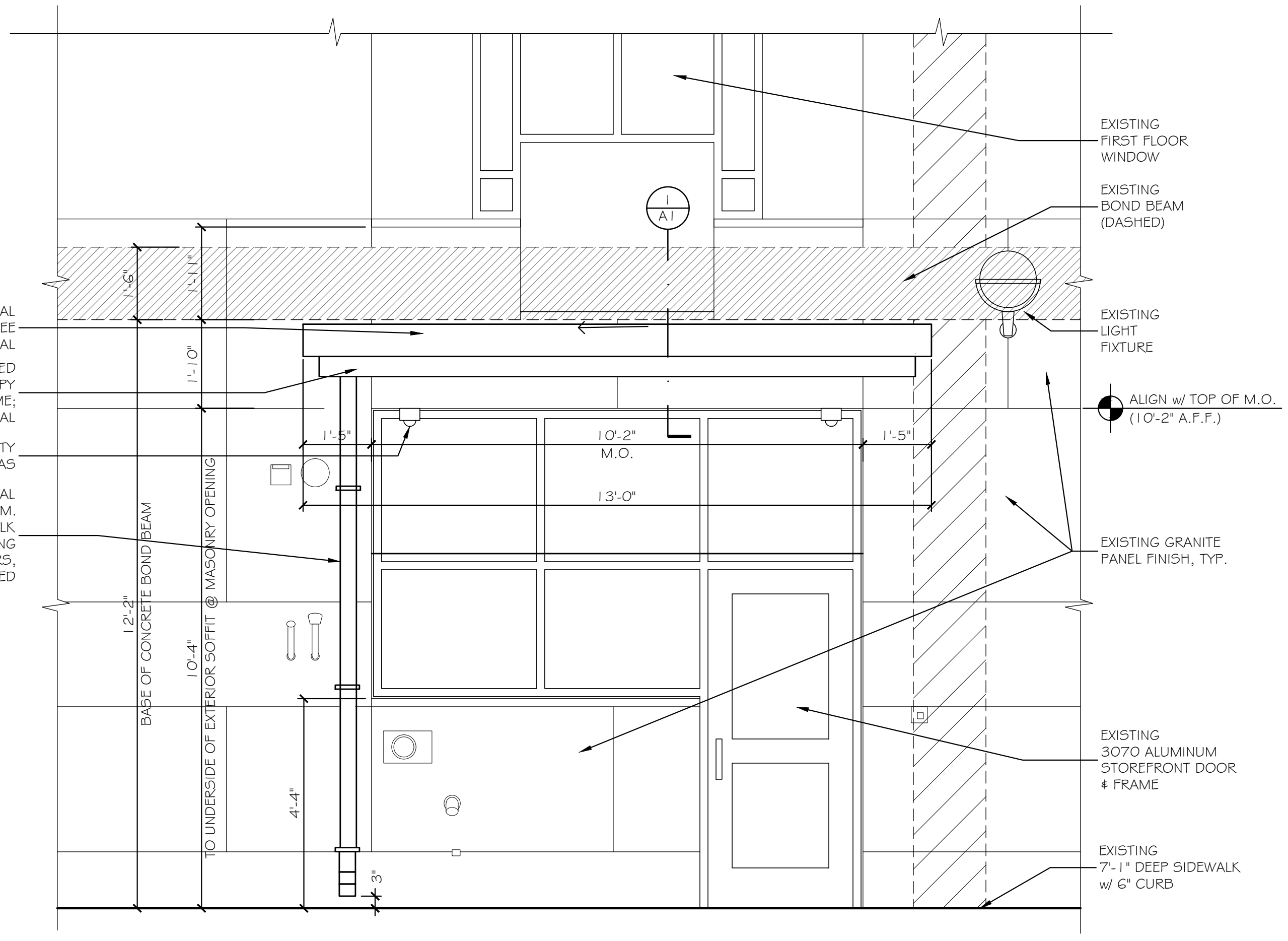
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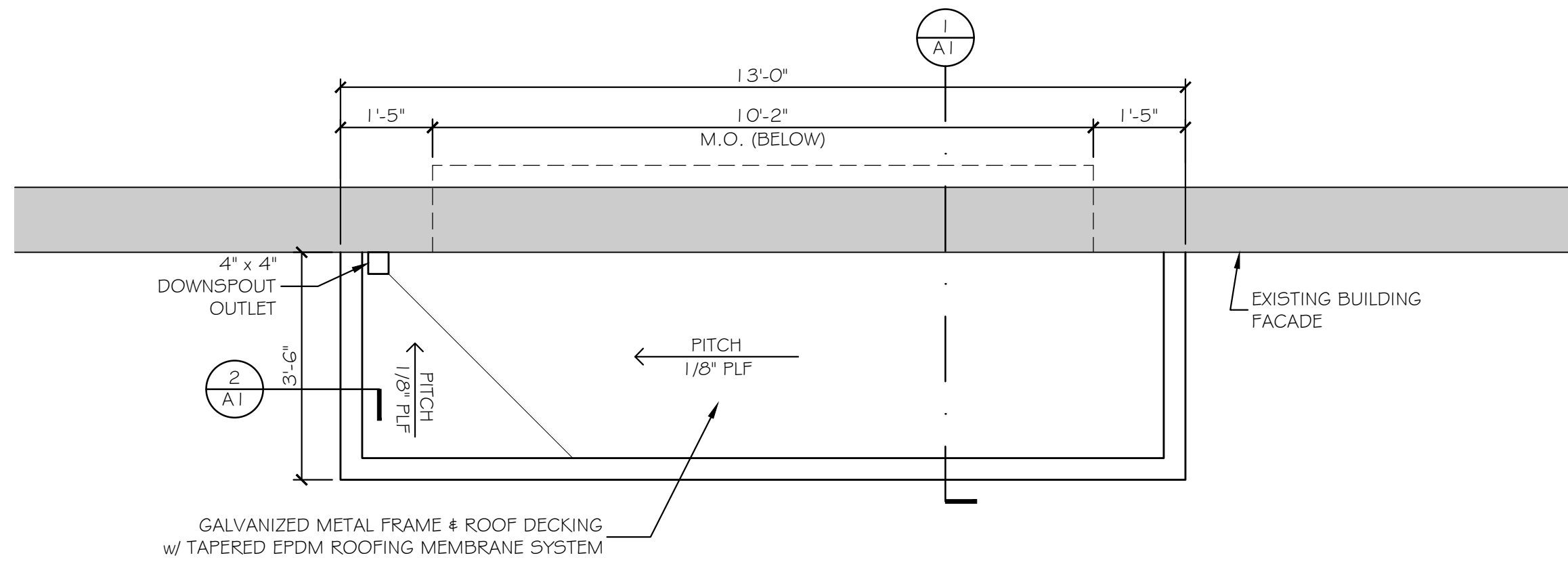
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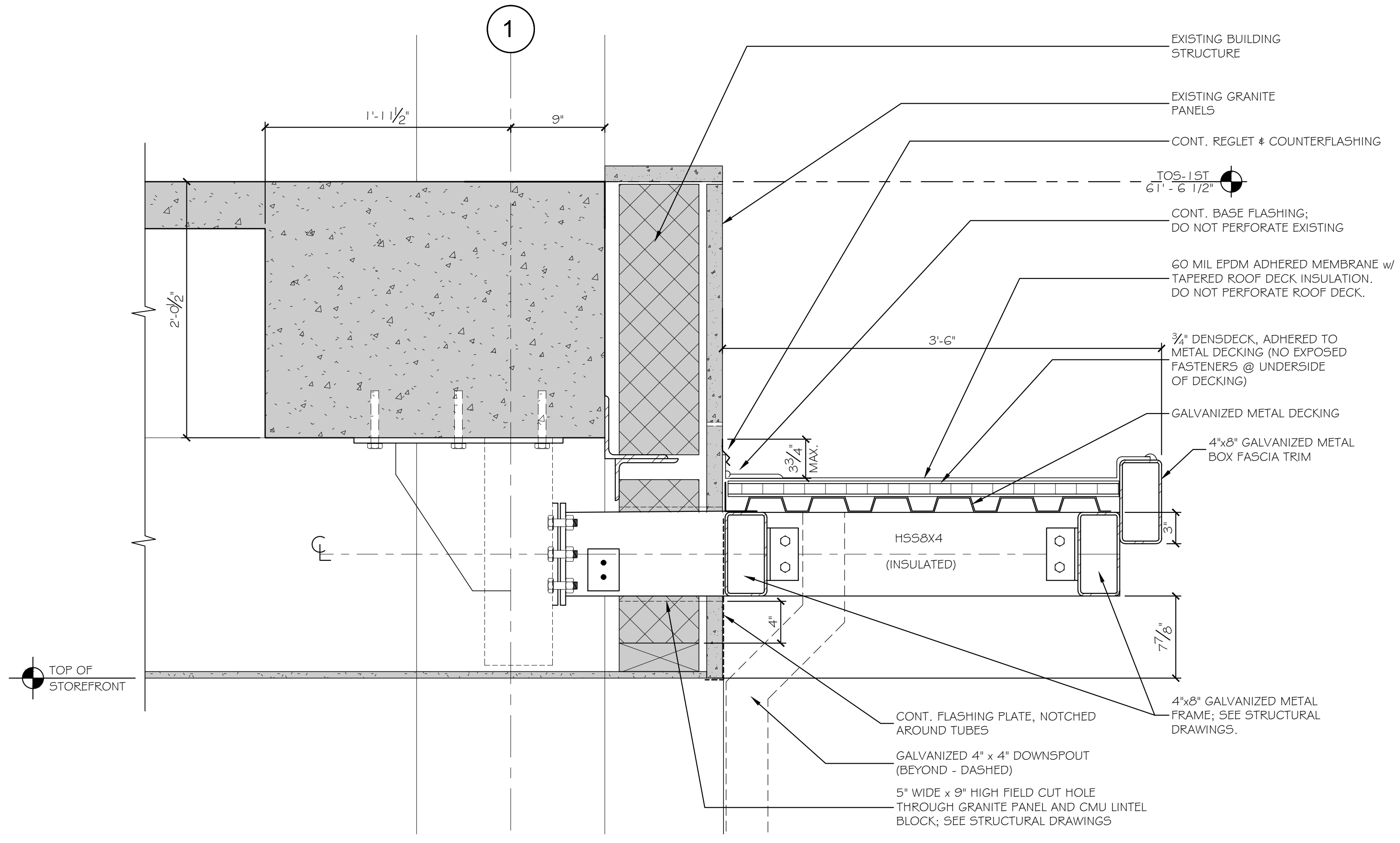
**A** PROPOSED JUDGES' ENTRANCE CANOPY PLAN  
SCALE: 1/2" = 1'-0"



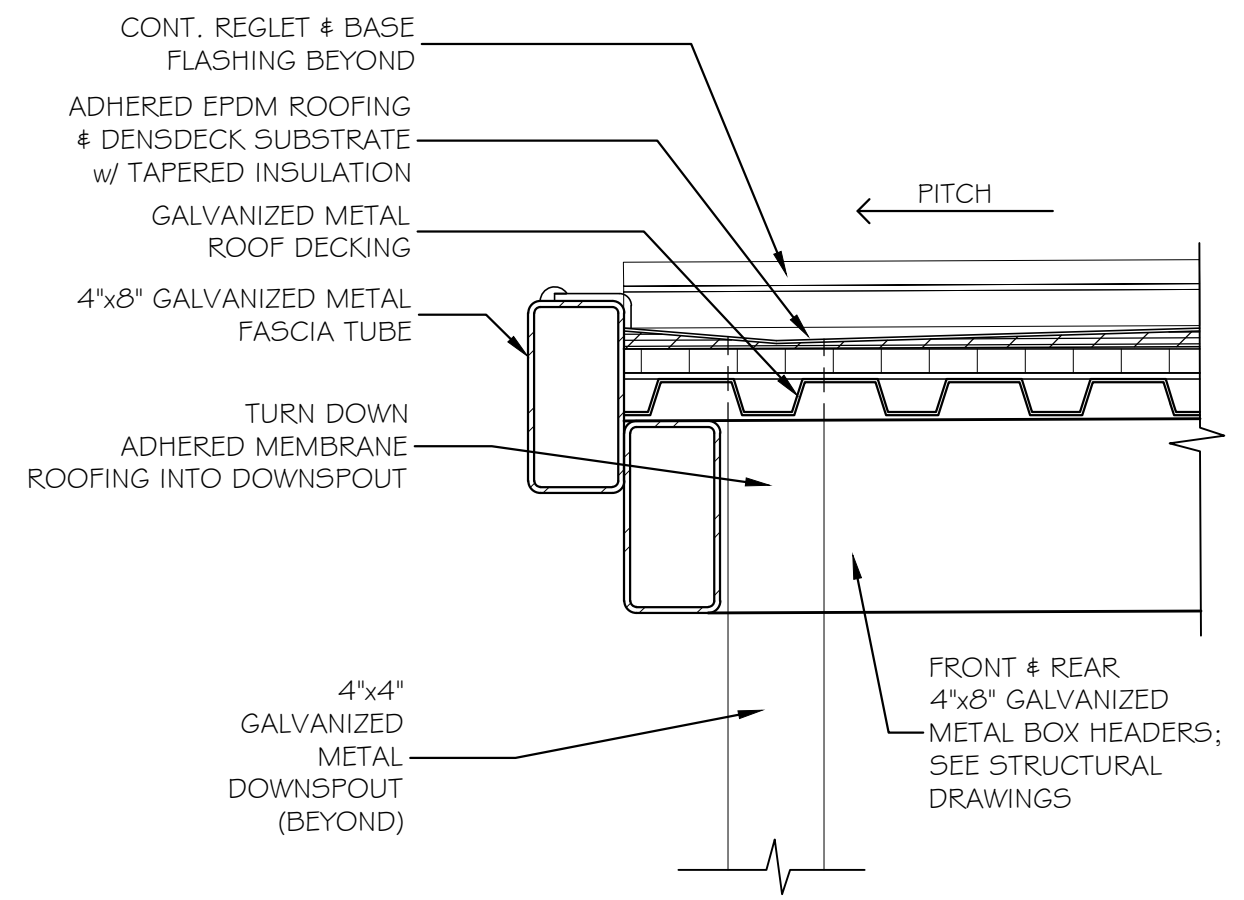
**A** PROPOSED JUDGES' ENTRANCE CANOPY ELEVATION  
SCALE: 1/2" = 1'-0"



**NEW CANOPY ROOF PLAN**  
SCALE: 1/2" = 1'-0"



**NEW CANOPY SECTION**  
SCALE: 1 1/2" = 1'-0"



**SECTION AT GUTTER**  
SCALE: 1 1/2" = 1'-0"

## SECTION 024119 - SELECTIVE DEMOLITION

## PART 1 - GENERAL

## 1.1 SUMMARY

## A. Section Includes:

- Demolition and removal of selected portions of building or structure.
- Salvage of existing items to be reused.

## 1.2 DEFINITIONS

- A. Remove: Detach items from existing construction and dispose of them off-site unless indicated to be salvaged or reinstalled.
- B. Existing to Remain: Leave existing items that are not to be removed and that are not otherwise indicated to be salvaged or reinstalled.
- C. Remove and Reinstall: Detach items from existing construction, in a manner to prevent damage, prepare for reuse, and reinstall where indicated.

## 1.3 FIELD CONDITIONS

- A. Owner will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted.
- B. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
- C. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.
- If suspected hazardous materials are encountered, do not disturb; immediately notify Architect and Owner. Hazardous materials will be removed by Owner under a separate contract.
- D. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.
- Maintain fire-protection facilities in service during selective demolition operations.

## 1.4 COORDINATION

- A. Arrange selective demolition schedule so as not to interfere with Owner's operations.

## PART 2 - PRODUCTS

## 2.1 PERFORMANCE REQUIREMENTS

- A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.

## PART 3 - EXECUTION

## 3.1 EXAMINATION

- A. Verify that utilities have been disconnected and capped before starting selective demolition operations.
- B. Verify that hazardous materials have been remediated before proceeding with building demolition operations.

## 3.2 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

- A. Existing Services/Systems to Remain: Maintain services/systems indicated to remain and protect them against damage.

## 3.3 PROTECTION

- A. Temporary Protection: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
- B. Remove temporary barricades and protections where hazards no longer exist.

## 3.4 SELECTIVE DEMOLITION, GENERAL

- A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
- B. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
- C. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Architect, items may be removed to a suitable, protected storage location during selective demolition and cleaned and reinstalled in their original locations after selective demolition operations are complete.

## 3.5 SELECTIVE DEMOLITION PROCEDURES FOR SPECIFIC MATERIALS

- A. Masonry: Demolish in small sections. Cut masonry at junctures with construction to remain, using power-driven saw, and then remove masonry between saw cuts.

## 3.6 DISPOSAL OF DEMOLISHED MATERIALS

- A. Remove demolition waste materials from Project site.
- B. Burning: Do not burn demolished materials.

## 3.7 CLEANING

- A. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

## 3.8 SELECTIVE DEMOLITION SCHEDULE

- A. Remove: Selective portions of existing concrete masonry, granite panels, light-gage metal framing and gypsum wall board as indicated in the drawings.
- B. Remove and Reinstall: Suspended acoustical ceiling components, for reinstallation, as indicated in the drawings.

END OF SECTION 024119

## SECTION 055000 - METAL FABRICATIONS

## PART 1 - GENERAL

## 1.1 SUMMARY

## A. Section Includes:

- Steel framing and supports for applications where framing and supports are not specified in other Sections.
- B. Shop Drawings: Show fabrication and installation details. Provide Shop Drawings for the following:
- Steel framing and supports for applications where framing and supports are not specified in other Sections.

## 1.2 QUALITY ASSURANCE

- A. Welding Qualifications: Qualify procedures and personnel according to AWS D1.1/D1.1M, "Structural Welding Code - Steel."

## 1.3 FIELD CONDITIONS

- A. Field Measurements: Verify actual locations of walls and other construction contiguous with metal fabrications by field measurements before fabrication.

## PART 2 - PRODUCTS

## 2.1 METALS

- A. Metal Surfaces, General: Provide materials with smooth, flat surfaces unless otherwise indicated. For metal fabrications exposed to view in the completed Work, provide materials without seam marks, roller marks, rolled trade names, or blemishes.
- B. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M.
- C. Steel Tubing: ASTM A 500/A 500M, cold-formed steel tubing.

## 2.2 FASTENERS

- A. General: Unless otherwise indicated, provide stainless-steel fasteners for exterior use and zinc-plated fasteners with coating complying with ASTM B 633 or ASTM F 1941, Class Fe/Zn 5, at exterior walls. Select fasteners for type, grade, and class required.
- B. Steel Bolts and Nuts: Regular hexagon-head bolts, ASTM A 307, Grade A; with hex nuts, ASTM A 563; and, where indicated, flat washers.
- C. Anchors, General: Anchors capable of sustaining, without failure, a load equal to six times the load imposed when installed in unit masonry and four times the load imposed when installed in concrete, as determined by testing according to ASTM E 488/E 488M, conducted by a qualified independent testing agency.
- D. Post-Installed Anchors:
- Material for Interior Locations: Carbon-steel components zinc plated to comply with ASTM B 633 or ASTM F 1941, Class Fe/Zn 5, unless otherwise indicated.
  - Material for Exterior Locations and Where Stainless Steel Is Indicated: Alloy Group 1 stainless-steel bolts, ASTM F 593, and nuts, ASTM F 594.

## 2.3 MISCELLANEOUS MATERIALS

- A. Shop Primer for Galvanized Steel: Primer formulated for exterior use over zinc-coated metal and compatible with finish paint systems indicated.
- B. Galvanizing Repair Paint: High-zinc-dust-content paint complying with SSPC-Paint 20 and compatible with paints specified to be used over it.

## 2.4 FABRICATION, GENERAL

- A. Shop Assembly: Preassemble items in the shop to greatest extent possible. Disassemble units only as necessary for shipping and handling limitations. Use connections that maintain structural value of joined pieces. Clearly mark units for reassembly and coordinated installation.
- B. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.
- C. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing work.
- D. Form exposed work with accurate angles and surfaces and straight edges.
- E. Weld corners and seams continuously to comply with the following:

- Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
- Obtain fusion without undercut or overlap.
- Remove welding flux immediately.
- At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.

- F. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners or welds where possible. Where exposed fasteners are required, use Phillips flat-head (countersunk) fasteners unless otherwise indicated. Locate joints where least conspicuous.
- G. Fabricate seams and other connections that are exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate.
- H. Cut, reinforce, drill, and tap metal fabrications as indicated to receive finish hardware, screws, and similar items.
- I. Provide for anchorage of type indicated; coordinate with supporting structure. Space anchoring devices to secure metal fabrications rigidly in place and to support indicated loads.

## 2.5 MISCELLANEOUS FRAMING AND SUPPORTS

- A. General: Provide steel framing and supports not specified in other Sections as needed to complete the Work.
- B. Fabricate units from steel shapes, plates, and bars of welded construction unless otherwise indicated. Fabricate to sizes, shapes, and profiles indicated and as necessary to receive adjacent construction.
- C. Galvanize miscellaneous framing and supports where indicated.
- 2.6 STEEL AND IRON FINISHES
- A. Galvanizing: Hot-dip galvanize items as indicated to comply with ASTM A 153/A 153M for steel and iron hardware and with ASTM A 123/A 123M for other steel and iron products.
- Do not quench or apply post galvanizing treatments that might interfere with paint adhesion.
- B. Preparation for Shop Priming Galvanized Items: After galvanizing, thoroughly clean steel of grease, dirt, oil, flux, and other foreign matter, and treat with metallic phosphate process.

## PART 3 - EXECUTION

## 3.1 INSTALLATION, GENERAL

- A. Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for installing metal fabrications. Set metal fabrications accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; and measured from established lines and levels.
- B. Fit exposed connections accurately together to form hairline joints. Weld connections that are not to be left as exposed joints but cannot be shop welded because of shipping size limitations. Do not weld, cut, or abrade surfaces of exterior units that have been hot-dip galvanized after fabrication and are for bolted or screwed field connections.
- C. Field Welding: Comply with the following requirements:
- Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
  - Obtain fusion without undercut or overlap.
  - Remove welding flux immediately.
  - At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.
- D. Fastening to In-Place Construction: Provide anchorage devices and fasteners where metal fabrications are required to be fastened to in-place construction. Provide threaded fasteners for use with concrete and masonry inserts, toggle bolts, through bolts, lag screws, wood screws, and other connectors.
- E. Provide temporary bracing or anchors in formwork for items that are to be built into concrete, masonry, or similar construction.

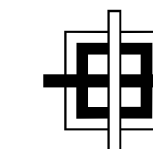
## 3.2 INSTALLING MISCELLANEOUS FRAMING AND SUPPORTS

- A. General: Install framing and supports to comply with requirements of items being supported, including manufacturers' written instructions and requirements indicated on Shop Drawings.

## 3.3 ADJUSTING AND CLEANING

- A. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas and repair galvanizing to comply with ASTM A 780/A 780M.

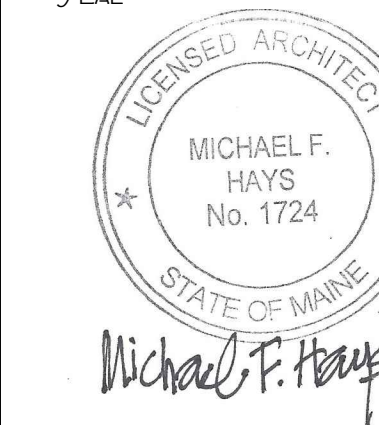
END OF SECTION 055000



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PORTLAND, MAINE 04101

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SECTION 077100 - ROOF SPECIALTIES

PART 1 - GENERAL

- 1.1 SUMMARY
  - A. Section Includes:
    1. Roof-edge drainage systems.
    2. Reglets and counterflashings.
- 1.2 ACTION SUBMITTALS
  - A. Shop Drawings: For roof specialties.
    1. Include plans, elevations, expansion-joint locations, keyed details, and attachments to other work. Distinguish between plant- and field-assembled work.
    2. Include details for expansion and contraction; locations of expansion joints, including direction of expansion and contraction.
    3. Indicate profile and pattern of seams and layout of fasteners, cleats, clips, and other attachments.
    4. Detail termination points and assemblies, including fixed points.
    5. Include details of special conditions.
  - B. Samples: For each type of roof specialty and for each color and texture specified.
- 1.3 FIELD CONDITIONS
  - A. Field Measurements: Verify profiles and tolerances of roof-specialty substrates by field measurements before fabrication, and indicate measurements on Shop Drawings.

PART 2 - PRODUCTS

- 2.1 PERFORMANCE REQUIREMENTS
  - A. General Performance: Roof specialties shall withstand exposure to weather and resist thermally induced movement without failure, rattling, leaking, or fastener disengagement due to defective manufacture, fabrication, installation, or other defects in construction.
- 2.2 ROOF-EDGE DRAINAGE SYSTEMS
  - A. Downspouts: Square complete with mitered elbows, manufactured from the following exposed metal. Furnish with metal hangers, from same material as downspouts, and anchors.
    1. Zinc-Coated Steel: Nominal 0.034-inch thickness.
  - B. Conductor Heads: Field-fabricated conductor head, with flashing flanges to be integrated into roof membrane system. Conductor head shall connect to downspout.
    1. Zinc-Coated Steel: Nominal 0.028-inch thickness.
- 2.3 REGLETS AND COUNTERFLASHINGS
  - A. Reglets: Manufactured units formed to provide secure interlocking of separate reglet and counterflashing pieces, from the following exposed metal:
    1. Zinc-Coated Steel: Nominal 0.028-inch thickness.
    2. Surface-Mounted Type: Provide reglets with slotted holes for fastening to substrate, with neoprene or other suitable weatherproofing washers, and with channel for sealant at top edge.
  - B. Counterflashings: Manufactured units of heights to overlap top edges of base flashings by 4 inches and in lengths not exceeding 12 feet designed to snap into reglets and compress against base flashings with joints lapped, from the following exposed metal:
    1. Zinc-Coated Steel: Nominal 0.028-inch thickness.

2.4 MATERIALS

- A. Zinc-Coated (Galvanized) Steel Sheet: ASTM A 653/A 653M, G90 coating designation.

2.5 MISCELLANEOUS MATERIALS

- A. Fasteners: Manufacturer's recommended fasteners, suitable for application and designed to meet performance requirements. Furnish the following unless otherwise indicated:
    1. Fasteners for Zinc-Coated (Galvanized) Steel Sheet: Series 300 stainless steel or hot-dip zinc-coated steel according to ASTM A 153/A 153M or ASTM F 2329.
  - B. Elastomeric Sealant: ASTM C 920, elastomeric polymer sealant of type, grade, class, and use classifications required by roofing-specialty manufacturer for each application.
- 2.6 FINISHES
- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
  - B. Protect mechanical and painted finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
  - C. Appearance of Finished Work: Noticeable variations in same piece are unacceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.
  - D. Coil-Coated Galvanized-Steel Sheet Finishes:
    1. High-Performance Organic Finish: Prepare, pretreat, and apply coating to exposed metal surfaces to comply with ASTM A 755/A 755M and coating and resin manufacturers' written instructions.

PART 3 - EXECUTION

- 3.1 EXAMINATION
  - A. Examine substrates, areas, and conditions, with Installer present, to verify actual locations, dimensions, and other conditions affecting performance of the Work.
  - B. Examine walls, roof edges, and parapets for suitable conditions for roof specialties.
  - C. Verify that substrate is sound, dry, smooth, clean, sloped for drainage where applicable, and securely anchored.
  - D. Proceed with installation only after unsatisfactory conditions have been corrected.
- 3.2 INSTALLATION, GENERAL
  - A. General: Install roof specialties according to manufacturer's written instructions. Anchor roof specialties securely in place, with provisions for thermal and structural movement. Use fasteners, solder, protective coatings, separators, underlayments, sealants, and other miscellaneous items as required to complete roof-specialty systems.
    1. Install roof specialties level, plumb, true to line and elevation; with limited oil-canning and without warping, jogs in alignment, buckling, or tool marks.
    2. Provide uniform, neat seams with minimum exposure of solder and sealant.
    3. Install roof specialties to fit substrates and to result in weathertight performance. Verify shapes and dimensions of surfaces to be covered before manufacture.
    4. Torch cutting of roof specialties is not permitted.
    5. Do not use graphite pencils to mark metal surfaces.
  - B. Metal Protection: Protect metals against galvanic action by separating dissimilar metals from contact with each other or with corrosive substrates by painting contact surfaces with bituminous coating or by other permanent separation as recommended by manufacturer.
  - C. Expansion Provisions: Allow for thermal expansion of exposed roof specialties.
  - D. Seal joints as required for weathertight construction. Place sealant to be completely concealed in joint. Do not install sealants at temperatures below 40 deg F.
  - E. Soldered Joints: Clean surfaces to be soldered, removing oils and foreign matter. Pre-tin edges of sheets to be soldered to a width of 1-1/2 inches; however, reduce pre-tinning where pre-tinned surface would show in completed Work. Tin edges of uncoated copper sheets using solder for copper. Do not use torches for soldering. Heat surfaces to receive solder and flow solder into joint. Fill joint completely. Completely remove flux and spatter from exposed surfaces.
- 3.3 ROOF-EDGE DRAINAGE-SYSTEM INSTALLATION
  - A. General: Install components to produce a complete roof-edge drainage system according to manufacturer's written instructions. Coordinate installation of roof perimeter flashing with installation of roof-edge drainage system.
  - B. Downspouts: Join sections with manufacturer's standard telescoping joints. Provide hangers with fasteners designed to hold downspouts securely to walls and 1 inch away from walls; locate fasteners as indicated in the drawings. Connect downspouts to underground drainage system indicated.
  - C. Conductor Heads: Anchor securely to roof structure.
- 3.4 REGLET AND COUNTERFLASHING INSTALLATION
  - A. General: Coordinate installation of reglets and counterflashings with installation of base flashings.
  - B. Surface-Mounted Reglets: Install reglets to receive flashings where flashing without embedded reglets is indicated on Drawings. Install at height so that inserted counterflashings overlap 4 inches over top edge of base flashings.
  - C. Counterflashings: Insert counterflashings into reglets or other indicated receivers; ensure that counterflashings overlap 4 inches over top edge of base flashings. Lap counterflashing joints a minimum of 4 inches and bed with butyl sealant. Fit counterflashings tightly to base flashings.
- 3.5 CLEANING AND PROTECTION
  - A. Clean exposed metal surfaces of substances that interfere with uniform oxidation and weathering.
  - B. Clean and neutralize flux materials. Clean off excess solder and sealants.
  - C. Remove temporary protective coverings and strippable films as roof specialties are installed. On completion of installation, clean finished surfaces, including removing unused fasteners, metal filings, pop rivet stems, and pieces of flashing. Maintain roof specialties in a clean condition during construction.

END OF SECTION 077100

SECTION 079200 - JOINT SEALANTS

PART 1 - GENERAL

- 1.1 SUMMARY
  - A. Section Includes:
    1. Urethane joint sealants.
    2. Butyl joint sealants.
- 1.2 FIELD CONDITIONS
  - A. Do not proceed with installation of joint sealants under the following conditions:
    1. When ambient and substrate temperature conditions are outside limits permitted by joint-sealant manufacturer.
    2. When joint substrates are wet.
    3. Where joint widths are less than those allowed by joint-sealant manufacturer for applications indicated.
    4. Where contaminants capable of interfering with adhesion have not yet been removed from joint substrates.

PART 2 - PRODUCTS

- 2.1 JOINT SEALANTS, GENERAL
  - A. Compatibility: Provide joint sealants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer, based on testing and field experience.
  - B. Colors of Exposed Joint Sealants: As selected by Architect from manufacturer's full range.
- 2.2 URETHANE JOINT SEALANTS
  - A. Urethane, S, NS, 100/50, T, NT: Single-component, nonsag, plus 100 percent and minus 50 percent movement capability, traffic- and nontraffic-use, urethane joint sealant; ASTM C 920, Type S, Grade NS, Class 100/50, Uses T and NT.
- 2.3 BUTYL JOINT SEALANTS
  - A. Butyl-Rubber-Based Joint Sealants: ASTM C 1311.
- 2.4 JOINT-SEALANT BACKING
  - A. Sealant Backing Material, General: Nonstaining; compatible with joint substrates, sealants, primers, and other joint fillers; and approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.
  - B. Cylindrical Sealant Backings: ASTM C 1330, Type C (closed-cell material with a surface skin), and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance.
  - C. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer for preventing sealant from adhering to rigid, inflexible joint-filler materials or joint surfaces at back of joint. Provide self-adhesive tape where applicable.

2.5 MISCELLANEOUS MATERIALS

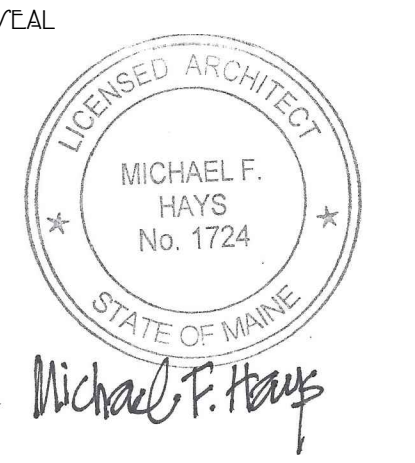
- A. Primer: Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.
- B. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturers of sealants and sealant backing materials, free of oily residues or other substances capable of staining or harming joint substrates and adjacent nonporous surfaces in any way, and formulated to promote optimum adhesion of sealants to joint substrates.
- C. Masking Tape: Nonstaining, nonabsorbent material compatible with joint sealants and surfaces adjacent to joints.

PART 3 - EXECUTION

- 3.1 EXAMINATION
  - A. Examine joints indicated to receive joint sealants, with Installer present, for compliance with requirements for joint configuration, installation tolerances, and other conditions affecting performance of the Work.
  - B. Proceed with installation only after unsatisfactory conditions have been corrected.
- 3.2 PREPARATION
  - A. Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions.
  - B. Joint Priming: Prime joint substrates where recommended by joint-sealant manufacturer or as indicated by preconstruction joint-sealant-substrate tests or prior experience. Apply primer to comply with joint-sealant manufacturer's written instructions. Confine primers to areas of joint-sealant bond; do not allow spillage or migration onto adjoining surfaces.
  - C. Masking Tape: Use masking tape where required to prevent contact of sealant or primer with adjoining surfaces that otherwise would be permanently stained or damaged by such contact or by cleaning methods required to remove sealant smears. Remove tape immediately after tooling without disturbing joint seal.

3.3 INSTALLATION OF JOINT SEALANTS

- A. General: Comply with joint-sealant manufacturer's written installation instructions for products and applications indicated, unless more stringent requirements apply.
  - B. Sealant Installation Standard: Comply with recommendations in ASTM C 1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.
  - C. Install bond-breaker tape behind sealants where sealant backings are not used between sealants and backs of joints.
  - D. Tooling of Nonsag Sealants: Immediately after sealant application and before skinning or curing begins, tool sealants according to requirements specified in subparagraphs below to form smooth, uniform beads of configuration indicated; to eliminate air pockets; and to ensure contact and adhesion of sealant with sides of joint.
- 3.4 CLEANING
- A. Clean off excess sealant or sealant smears adjacent to joints as the Work progresses by methods and with cleaning materials approved in writing by manufacturers of joint sealants and of products in which joints occur.
- 3.5 PROTECTION
- A. Protect joint sealants during and after curing period from contact with contaminating substances and from damage resulting from construction operations or other causes so sealants are without deterioration or damage at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, cut out, remove, and repair damaged or deteriorated joint sealants immediately so installations with repaired areas are indistinguishable from original work.
- 3.6 JOINT-SEALANT SCHEDULE
- A. Joint-Sealant Application: Exterior joints in vertical surfaces and horizontal nontraffic surfaces.
    1. Joint Locations:
      - a. Joints in dimension stone cladding.
      - b. Joints between different materials.
      - c. Other joints as indicated on Drawings.
    2. Joint Sealant: Urethane, S, NS, 100/50, T, NT.
    3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.
  - B. Joint-Sealant Application: Concealed mastics.
    1. Joint Locations:
      - a. Reglets and Counterflashing.
      - b. Other joints as indicated on Drawings.
    2. Joint Sealant: Butyl-rubber based.
    3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.
- 3.7 Schedule
- The installation of the 4 structural steel supports and any holes necessary in the existing building to accommodate for those will take place during off hours (SPM - 8AM). All other work can be accomplished during operational hours.
- It may be necessary to build a plastic partition around the canopy to meet the project deadline and still fit within the temperature restrictions of products. If this is necessary, this will be done at no cost to the owner.
- END OF SECTION 079200



REVISIONS

NO.	DATE	DESCRIPTION

DRAWING NAME

JUDGE'S ENTRANCE CANOPY

CUMBERLAND COUNTY COURTHOUSE

205 NEWBURY STREET

PORTLAND, MAINE 04101

SPECIFICATIONS

DATE: 4 OCT 2018

SCALE: NO SCALE

DRAWN: MFH/mgk

JOB NO.: 180806

- GENERAL NOTES:**
- CONTRACTORS SHALL CONFORM TO SAFETY REQUIREMENTS OF THE OWNER, OSHA SAFETY AND HEALTH STANDARDS, AND OTHER LOCAL AUTHORITIES IN CONNECTION WITH THE PERFORMANCE OF THIS PROJECT.
  - REFERENCED STANDARDS OR PUBLICATIONS SHALL PERTAIN TO THE MOST CURRENT DATA, STANDARD OR PUBLICATION, UNLESS NOTED OTHERWISE.
  - INCONSISTENCIES WITH THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE AFFECTED PORTIONS OF THE WORK.
  - STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS. ANY DIMENSIONS OR ELEVATIONS OMITTED OR NOT SHOWN ON THE STRUCTURAL DRAWINGS SHOULD BE OBTAINED FROM THE DRAWINGS OF THE OTHER DISCIPLINES. ANY INCONSISTENCIES WITH THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE AFFECTED PORTIONS OF THE WORK.
  - IF DIFFERENCES OCCUR WITHIN OR BETWEEN THE DRAWINGS AND SPECIFICATIONS REGARDING MATERIALS, STRENGTHS OR QUANTITIES, THE BETTER, HIGHER STRENGTH, AND GREATER QUANTITY INDICATED, SPECIFIED OR NOTED SHALL BE PROVIDED.
  - THE CONTRACTOR SHALL VISIT THE SITE AT A DESIGNATED TIME APPROVED BY THE OWNER, TO VERIFY EXISTING CONDITIONS, DIMENSIONS, LOCATION OF EXISTING UTILITIES, ETC. THE CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES WITHOUT EXCEPTION.
  - THE STRUCTURE HAS BEEN DESIGNED AS A SELF-SUPPORTING SYSTEM ONCE ALL WORK CONTAINED ON THESE DRAWINGS HAS BEEN COMPLETED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ERECTION PROCEDURES AND SEQUENCE OF INSTALLATION TO ENSURE SAFETY OF THE BUILDING AND ITS OCCUPANTS DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS AND TEMPORARY SHORING, PRECAUTIONS DURING BUILDING OPERATIONS, PROTECTION OF PUBLIC AND WORKERS, REMOVAL OF WASTE MATERIAL, PROTECTION OF ADJACENT PROPERTY, PROTECTION OF HAZARDOUS OPENINGS, SAFETY PRECAUTIONS, AND SANITARY PROVISIONS OF EMPLOYEES AND SUBCONTRACTORS AS REQUIRED FOR THE DURATION OF THE CONTRACT.
  - WORK SHALL BE DONE IN AN ORDERLY AND PROFESSIONAL MANNER. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL WORK TO BE DONE BY SUBCONTRACTORS, LOCAL AUTHORITIES, STATE AGENCIES AND/OR UTILITY COMPANIES WHICH MAY HAVE JURISDICTION OVER THIS PROJECT.
  - UTILITY EXTENSIONS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH STATE AND LOCAL CODES. THE CONTRACTOR SHALL REVIEW AND SUBMIT COMPLETE SHOP DRAWINGS FOR ALL SPECIFIED PARTS OF THE WORK. NO PORTION OF THE WORK COVERED BY THESE SHOP DRAWINGS SHALL COMMENCE UNTIL RETURNED APPROVED SHOPS ARE RECEIVED BY THE CONTRACTOR. SHOP SUBMITTAL PACKAGES SHALL INCLUDE, BUT NOT BE LIMITED TO:
    - STRUCTURAL STEEL: MISCELLANEOUS STEEL FRAMING COMPONENT SHOP DRAWINGS ALONG WITH STEEL ORIGINAL AND STRENGTH/GRADES, METAL DECK.
    - ROOFING MATERIALS INCLUDING MEMBRANE, INSULATION AND COVERBOARD MATERIALS.
  - THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY EXISTING ITEMS DAMAGED BY NEW CONSTRUCTION, AND FOR ANY INCIDENTAL REPAIRS OF EXISTING FINISHED SURFACES DISTURBED BY NEW CONSTRUCTION; SUCH REPAIRS SHALL MATCH EXISTING TO THE OWNER'S SATISFACTION.
  - THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING, HANDLING, AND STORAGE OF ITEMS/MATERIALS TO REMAIN THE PROPERTY OF THE OWNER WITH THE OWNER'S REPRESENTATIVE.
  - SPECIAL INSPECTIONS AS REQUIRED BY IBC 2012 SECTION 1704 SHALL BE PERFORMED BY AN INSPECTION AGENCY CONTRACTED BY THE OWNER FOR ALL STEEL ACTIVITIES. SPECIFIC REQUIREMENTS FOR STEEL TESTING ARE OFFERED IN THE STRUCTURAL NOTES SECTION OF SF-100.

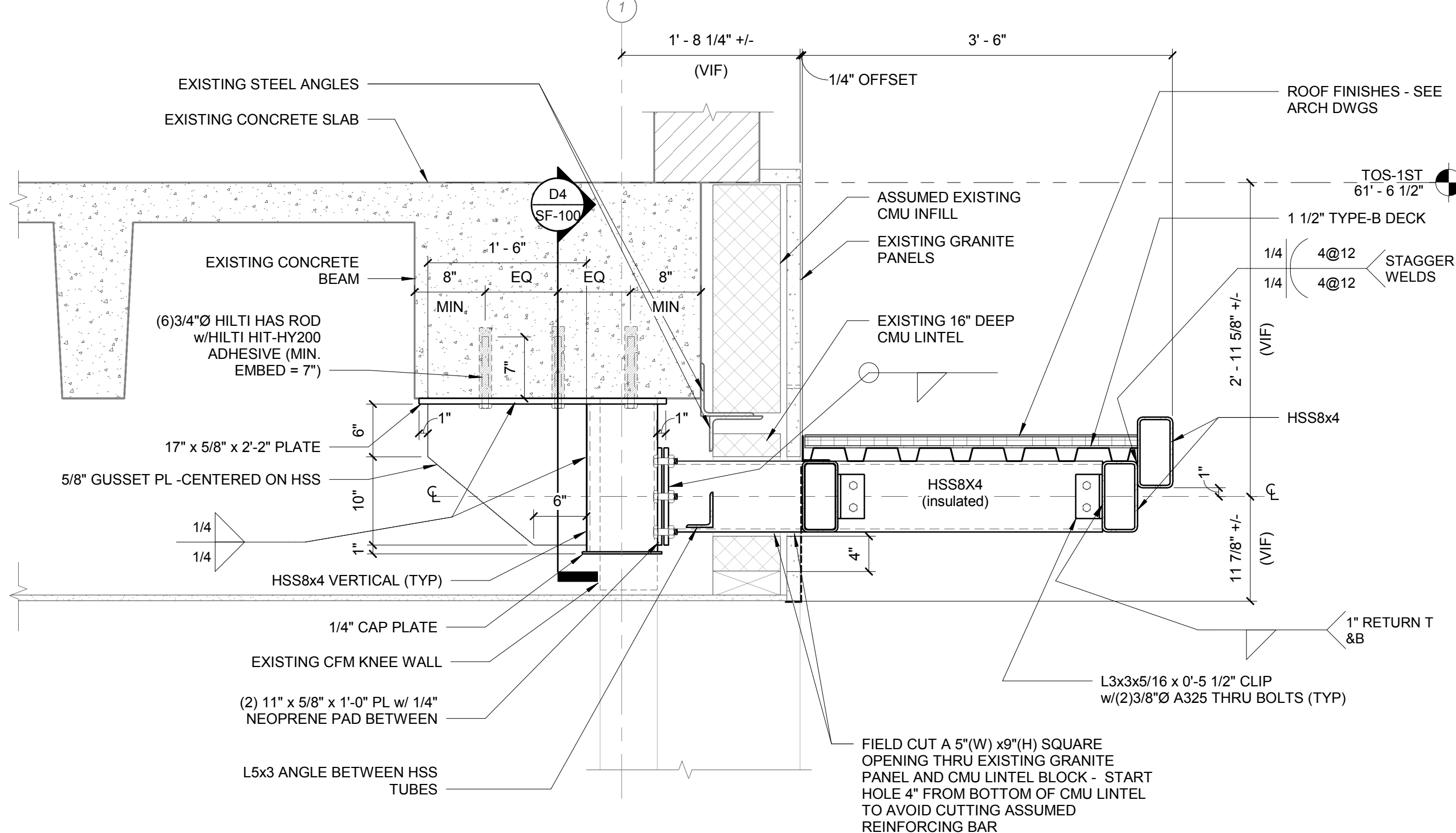
- STRUCTURAL NOTES:**
- BUILDING CODE:**
    - INTERNATIONAL BUILDING CODE - 2015
    - ASCE/SEI 7-10 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
  - MINIMUM LOADING REQUIREMENTS:**
    - ROOF SNOW LOADS - LOADS:** (EXCEPT AT DRIFTING SNOW LOCATIONS AND THOSE LISTED BELOW)
      - GROUND SNOW LOAD:**  $P_g = 60.0$  PSF
      - IMPORTANCE FACTOR:**  $I = 1.0$
      - COLD ROOF SLOPE FACTOR:**  $C_s = 1.0$
      - THERMAL FACTOR:**  $C_t = 1.2$
      - EXPOSURE FACTOR:**  $C_e = 1.0$
      - TERRAIN CATEGORY:** B
    - FLAT ROOF SNOW LOAD:**  $P_f = 50.4$  PSF
    - DRIFT -**  $P_{drift} = 162.7$  PSF - FULL ROOF SURFACE
  - ROOF DEAD LOAD:** 10.0 PSF.
  - ROOF LIVE LOAD:**
    - STANDARD ROOF LIVE LOAD: 20 PSF
  - WIND:**
    - FACTORS:**
      - BASIC WIND SPEED: ULTIMATE = 120 MPH; NOMINAL = 93 MPH
      - EXPOSURE CATEGORY: "B"
      - IMPORTANCE FACTOR: 1.0
      - BUILDING HEIGHT: <20'

- STRUCTURAL STEEL SHALL BE DESIGNED USING THE 13TH EDITION OF THE AISC STEEL CONSTRUCTION MANUAL. STEEL BEAMS SHALL CONFORM TO ASTM A992, F<sub>y</sub> = 50KSI; MISCELLANEOUS PLATES, SHAPES, CHANNELS, ANGLES ETC. SHALL CONFORM TO ASTM A36, F<sub>y</sub> = 36KSI
- STEEL TUBING: COLD-FORMED STEEL TUBING COMPLYING WITH ASTM A513
- ROOF FLOOR DECK SHALL BE 1/2" X 20 GAUGE TYPE B DECKING. FASTENED TO SUPPORT STEEL WITH 5/8" PUDDLE WELDS AT 6" ON-CENTER SPACING.
- INSPECTION REPORTS SHALL BE FURNISHED TO THE OWNER, BUILDING OFFICIAL, ARCHITECT AND SER. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR AND IF NOT CORRECTED, SHALL BE REPORTED TO THE OWNER, BUILDING OFFICIAL, ARCHITECT AND SER.

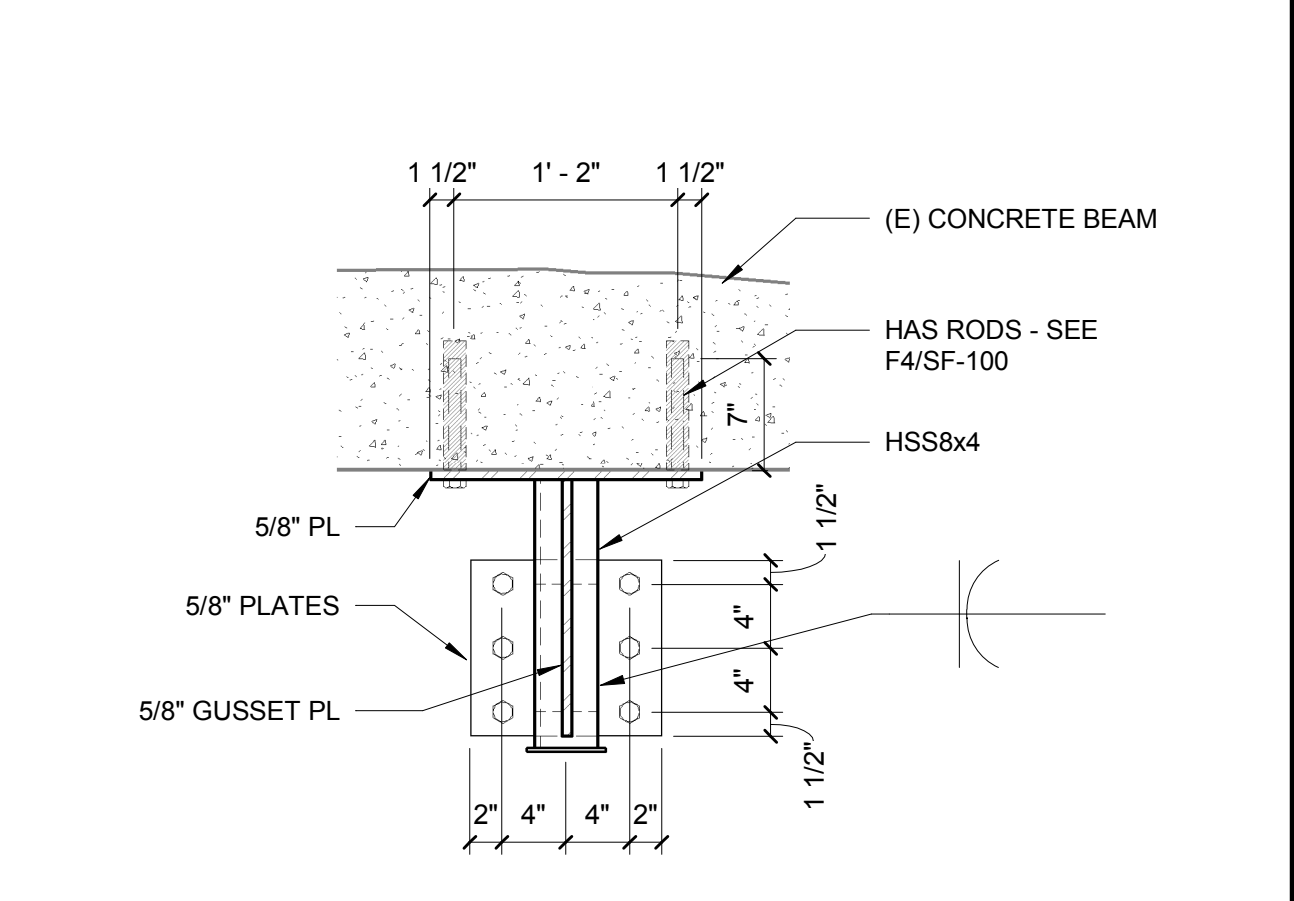
- CONNECTIONS:**
- DETAILS ARE CONCEPTUAL ONLY AND DO NOT INDICATE THE REQUIRED NUMBER OF BOLTS OR WELD SIZES, UNLESS SPECIFICALLY NOTED OTHERWISE.
  - FIELD CONNECTIONS SHALL BE FIELD BOLTED WITH A325N HIGH STRENGTH BOLTS (U.N.O.) EXCEPT WHERE SLIP CRITICAL CONNECTIONS ARE REQUIRED AND NOTED BY A325 (SC) ON THE DRAWINGS.
  - UNLESS NOTED OTHERWISE, CONNECTIONS SHALL BE WELDED OR BOLTED WITH 3/4" DIAMETER BOLTS (BEARING TYPE, DESIGNATION N, THREADS IN SHEAR PLATE) BEAM TO COLUMN CONNECTIONS SHALL BE FULL DEPTH (BOLT SPACING 3" ON-CENTER UNLESS NOTED).
  - OVERSIZE OR SLOTTED HOLES SHALL NOT BE USED FOR ANY CONNECTIONS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR APPROVED IN WRITING BY ENGINEER OF RECORD.
  - MINIMUM NUMBER OF BOLTS PER CONNECTION SHALL BE 2, UNO.
  - WELDS INDICATED SHALL BE THE MINIMUM WELD SIZED SPECIFIED BY THE AISC MANUAL OF STEEL DESIGN (SINGLE PASS AS REQUIRED) BUTT AND FULL PENETRATION WELDS SHALL BE MADE USING RUN OFF TABS THAT SHALL BE REMOVED AND GROUND SMOOTH AFTER WELD IS COMPLETED. WELD BACK UP BARS SHALL BE REMOVED AND GROUND SMOOTH AFTER WELD IS COMPLETED.

- SPECIAL INSPECTIONS:**
- SPECIAL INSPECTIONS: AN INDEPENDENT INSPECTIONS PROGRAM AND SCHEDULE SHALL BE ARRANGED BY THE BUILDING OWNER.
  - A QUALIFIED PERSON APPROVED BY THE BUILDING OFFICIALS SHALL MAKE SPECIAL INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE IBC-2015 AND AS DEFINED. SPECIAL INSPECTOR SHALL OBSERVE WORK FOR CONFORMANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS. INSPECTION REPORTS SHALL BE FURNISHED TO THE OWNER, BUILDING OFFICIAL, ARCHITECT AND SER. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR AND IF NOT CORRECTED, SHALL BE REPORTED TO THE OWNER, BUILDING OFFICIAL, ARCHITECT AND SER. THE FOLLOWING TYPES OF WORK SHALL RECEIVE SPECIAL INSPECTION OVERSIGHT: STRUCTURAL STEEL FABRICATION, ERECTION AND CONNECTIONS, AND METAL DECK FASTENING.

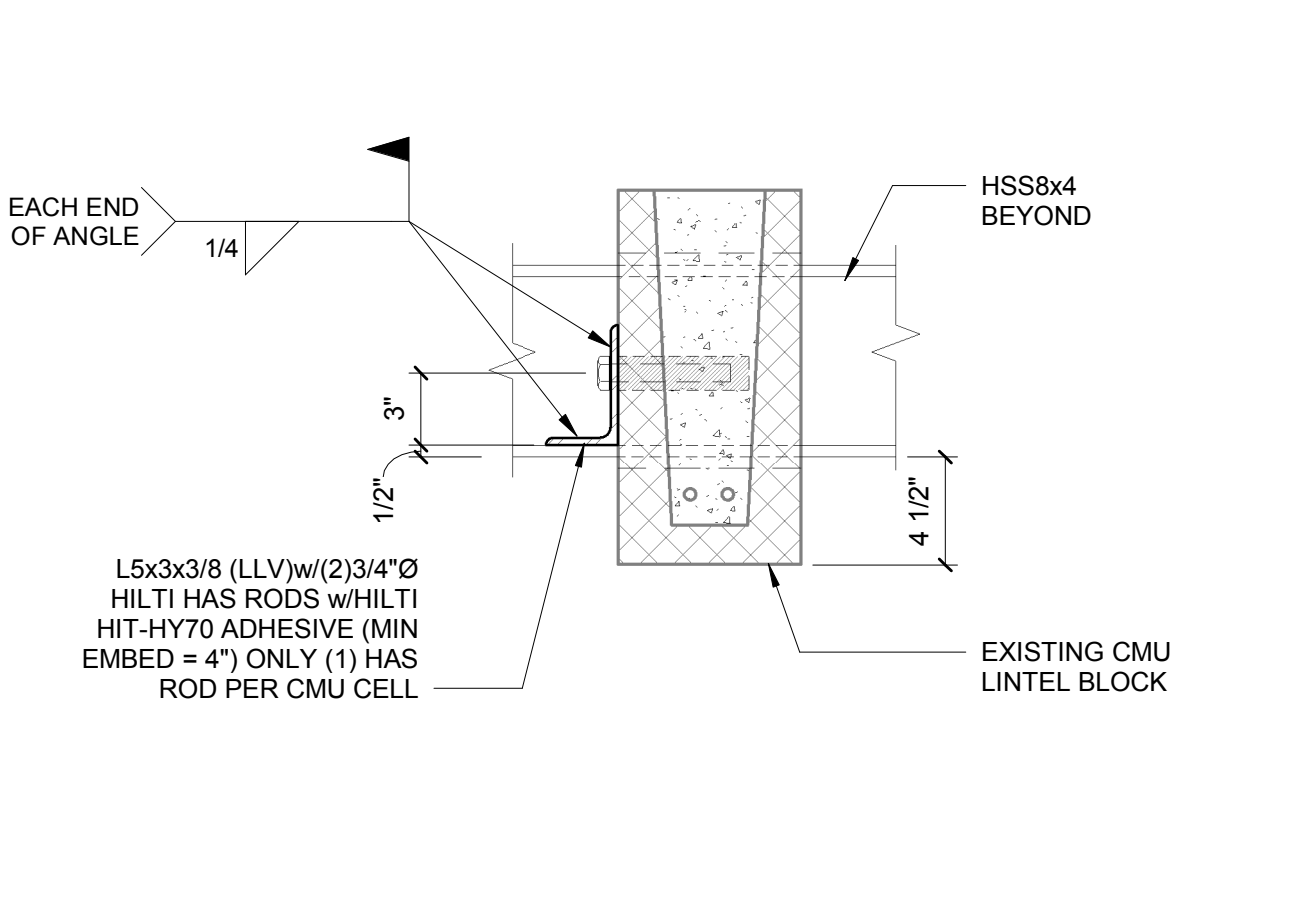
- FIELD TESTING:**
- BOLTED CONNECTIONS: 100% OF COMPONENTS AND FASTENERS IN SLIP CRITICAL CONNECTIONS, AS IDENTIFIED IN THE PROJECT CONTRACT DOCUMENTS SHALL BE VISUALLY INSPECTED AND TESTED FOR TIGHTNESS IN ACCORDANCE WITH AISC SPECIFICATIONS FOR STRUCTURAL JOINTS, PARTS 8 AND 9.
  - CHECK BY CALIBRATION TORQUE WRENCH 25% OF BOLTS IN EACH NON-SC SHEAR CONNECTION BUT NOT LESS THAN (2) PER CONNECTION.
  - FIELD WELDED CONNECTIONS: PERFORM TESTING IN ACCORDANCE WITH ANSI/AWS D1.1, CHAPTER 6.
  - CONDUCT TESTING OF 10% OF WELDS ON STRUCTURAL STEEL BY DYE PENETRATION OR MAGNETIC PARTICLE TESTING.
  - THE STRUCTURAL FABRICATOR AND ERECTOR SHALL SCHEDULE ALL WORK TO ALLOW THE ABOVE INSPECTION AND TESTING REQUIREMENTS TO BE COMPLETED.
  - HILTI FASTENERS, INSTALLED IN EXISTING CONCRETE SUBSTRATE, SHALL BE PROOF-TESTED (IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS) TO 133% OF ALLOWABLE TENSILE LOADS.



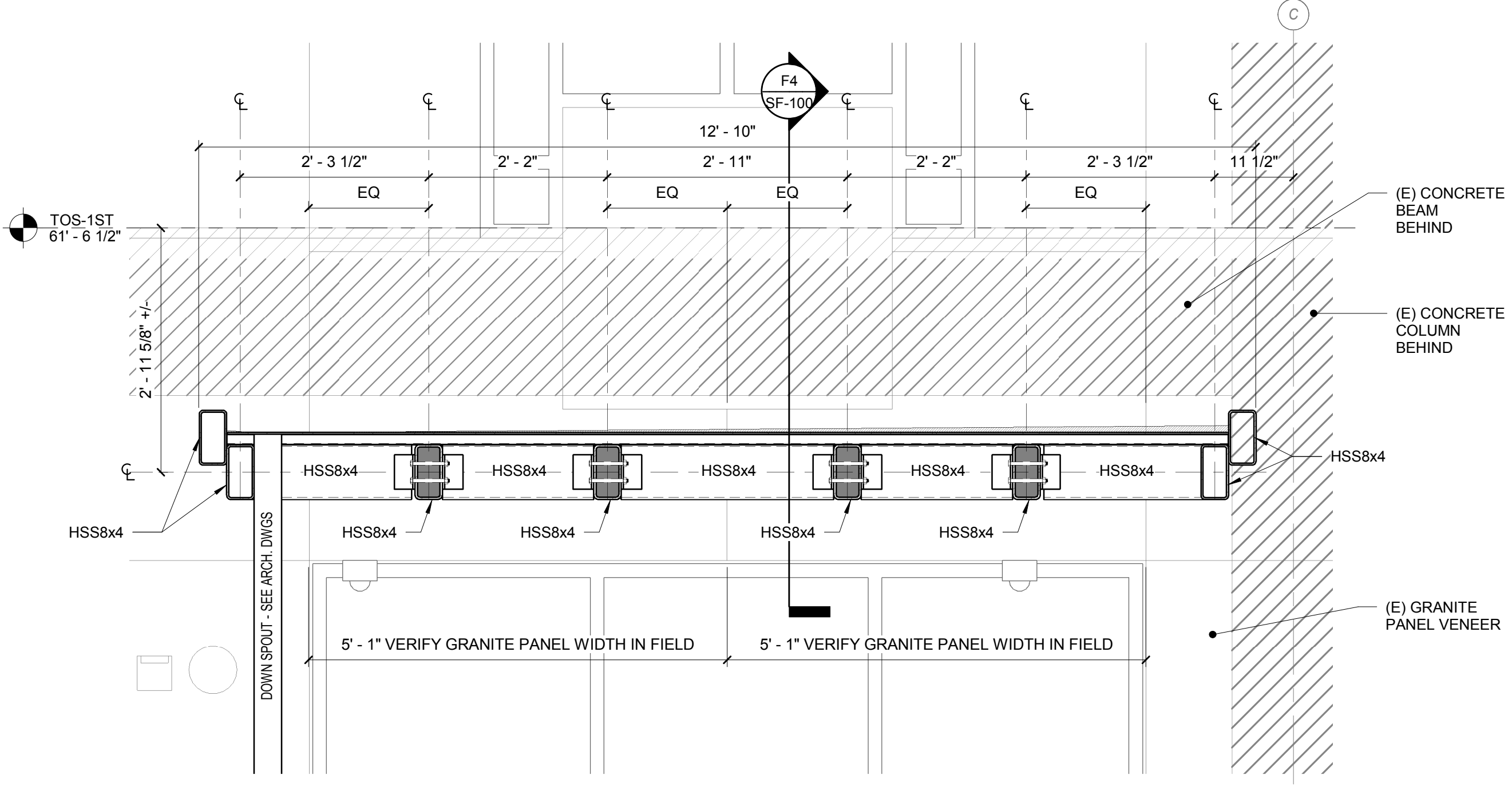
**F4 SECTION**  
1" = 1'-0"



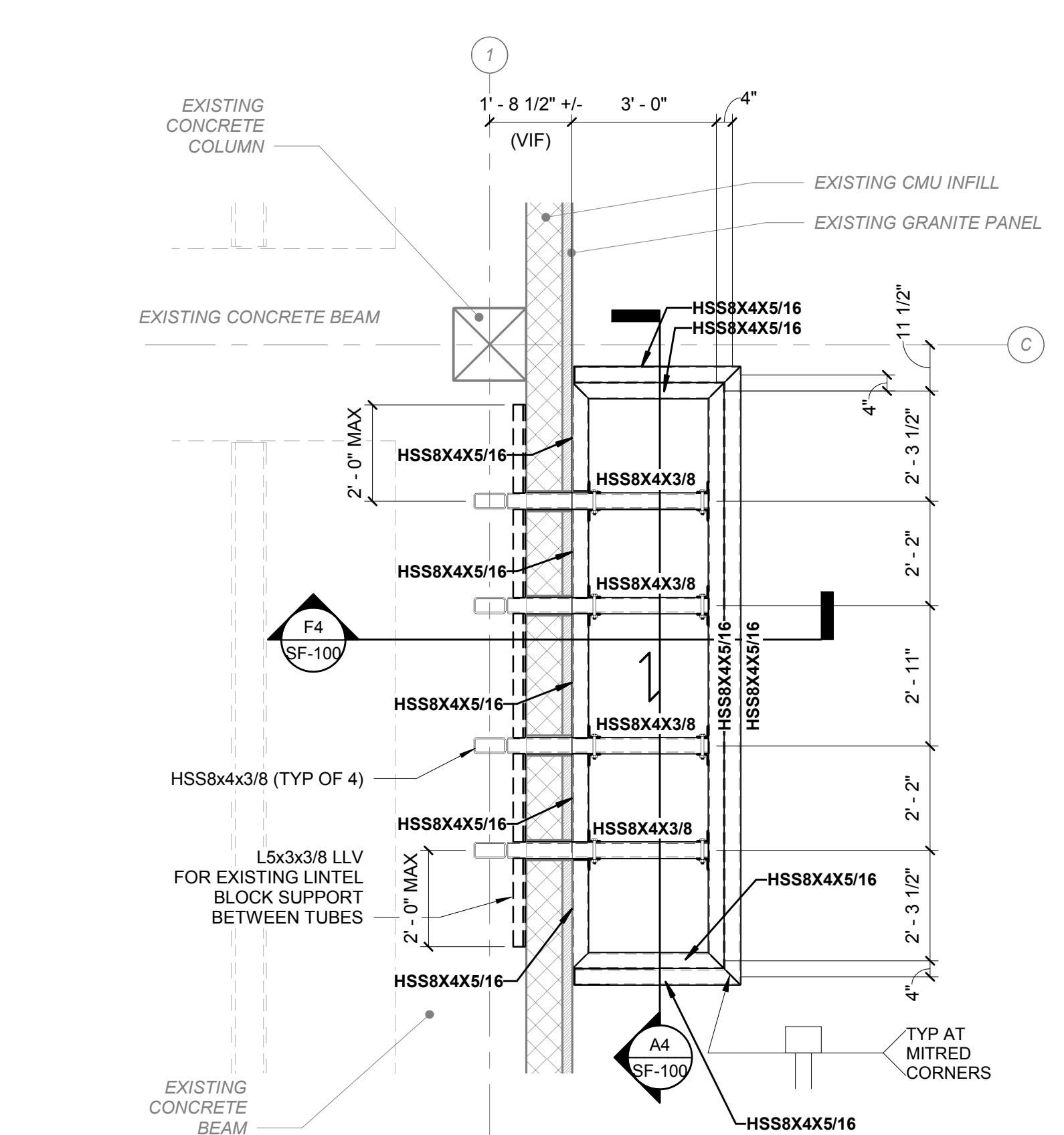
**D4 SECTION**  
1" = 1'-0"



**D6 EXISTING LINTEL BLOCK SUPPORT**  
1 1/2" = 1'-0"



**A4 SECTION / ELEVATION**  
3/4" = 1'-0"



**D8 CANOPY FRAMING PLAN**  
3/8" = 1'-0"

**NOTE:** EXTERIOR EXPOSED STEEL SECTIONS AND CONNECTION MEMBERS SHALL BE GALVANIZED  
↔ INDICATES SPAN OF 1/2", TYPE-B DECKING

**D8 CANOPY FRAMING PLAN**  
3/8" = 1'-0"

- ROOFING NOTES:**
- ROOFING SYSTEM DESIGN: PROVIDE MEMBRANE ROOFING SYSTEM THAT IS IDENTICAL TO SYSTEMS THAT HAVE BEEN SUCCESSFULLY TESTED BY A QUALIFIED TESTING AND INSPECTING AGENCY TO RESIST UPLIFT PRESSURE CALCULATED ACCORDING TO ASCE/SEI 7.
    - ALL ROOF FASTENINGS SHALL CONSIDER UPLIFT PRESSURE OF 65.5 PSF
  - SPECIAL WARRANTY: MANUFACTURER'S STANDARD OR CUSTOMIZED FORM, WITHOUT MONETARY LIMITATION, IN WHICH MANUFACTURER AGREES TO REPAIR OR REPLACE COMPONENTS OF MEMBRANE ROOFING SYSTEM THAT FAIL IN MATERIALS OR WORKMANSHIP WITHIN SPECIFIED WARRANTY PERIOD.
    - SPECIAL WARRANTY INCLUDES MEMBRANE ROOFING, BASE FLASHINGS, ROOF INSULATION, FASTENERS, COVER BOARDS, SUBSTRATE BOARD, ROOFING ACCESSORIES, AND OTHER COMPONENTS OF MEMBRANE ROOFING SYSTEM.
    - WARRANTY PERIOD: 20 YEARS FROM DATE OF SUBSTANTIAL COMPLETION.
  - EPDM: ASTM D 4637, TYPE I, NON-REINFORCED, UNIFORM, FLEXIBLE EPDM SHEET.
    - MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
      - CARLISLE SYNTEC INCORPORATED
      - FIRESTONE BUILDING PRODUCTS
      - GAF MATERIALS CORPORATION
    - THICKNESS: 60 MILS NOMINAL
    - EXPOSED FACE COLOR: BLACK
  - COMPOSITE POLYISOCYANURATE BOARD INSULATION: ASTM C 1289, TYPE II, CLASS 1, GRADE 2 WITH FACTORY APPLIED FACING BOARD ON ONE MAJOR SURFACE, AS INDICATED BELOW BY TYPE, AND FELT OR GLASS-FIBER MAT FACER ON THE OTHER.
    - TYPE VII: GLASS MAT FACED GYPSUM BOARD FACER, 1/4 INCH THICK.
    - THICKNESS: 1" MINIMUM WITH TAPER LAYERS AS NOTED
    - JOINT STYLE: OVERLAPPED, 4 INCHES WIDE
    - MATERIALS: MATCH EXISTING IN COLOR, GAGE AND DIMENSIONAL CHARACTERISTICS.
    - PROVIDE COVER BOARD: ASTM C 208, TYPE II, GRADE 2, CELLULOSIC-FIBER INSULATION BOARD, 1/2 INCH THICK.

**A8 NOTES**

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**Allied Engineering**  
Structural Mechanical Electrical Commissioning

STATE OF MAINE  
WILLIAM W. FURBER  
REGISTERED PROFESSIONAL ENGINEER  
No. 9763

REVISIONS	NO.	DATE	BY	DESCRIPTION

Date: 10-04-2018  
Drawn By: PED  
Checked By: JPM  
Project Mgr: WPF  
Cad File: 1804\_L\_S\_R18.rvt  
Graphic Scale: 1" = 0'

**STRUCTURAL - FRAMING PLAN**

CUMBERLAND COUNTY COURTHOUSE  
JUDGES ENTRANCE CANOPY  
PORTLAND, MAINE

**SF-100**