

## Description of Proposed Work

Modifications to existing MarketFront railings (guardrail and handrail) associated with the City's new Overlook Walk Project, presented to the Pike Place Market Historic District Commission (Commission) on May 4<sup>th</sup> and May 11<sup>th</sup>, 2022. This application includes railing details of modifications to the existing railings at the Market Front connection, so that it will tie into the new railings on the Overlook Walk. In addition, this application includes the finish of the weight transfer beam placed in the Pike Place Market Garage at the Market Garage connection.

## Statement of the Reason for Demolition

The demolition of the existing guardrail and handrail was included in prior application materials.

## Description of Replacement Structure or Object

The structure replacing the railings to be demolished is similar to existing, modified to tie into Overlook Walk.

See rendering of the completed Overlook Walk project at the link below.

[Waterfront Seattle](#)

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## 100% SUBMITTAL



# WATERFRONT SEATTLE OVERLOOK WALK IMPROVEMENTS

JOB NO.	PC	TS5766A
	R/W	
	CO	
VAULT PLAN NO.		
790-621		
SHEET	01	OF 533



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**Seattle**  
**Department of**  
**Transportation**  
NO. 125475 PW NO. 2020-003  
R ID: TC367330



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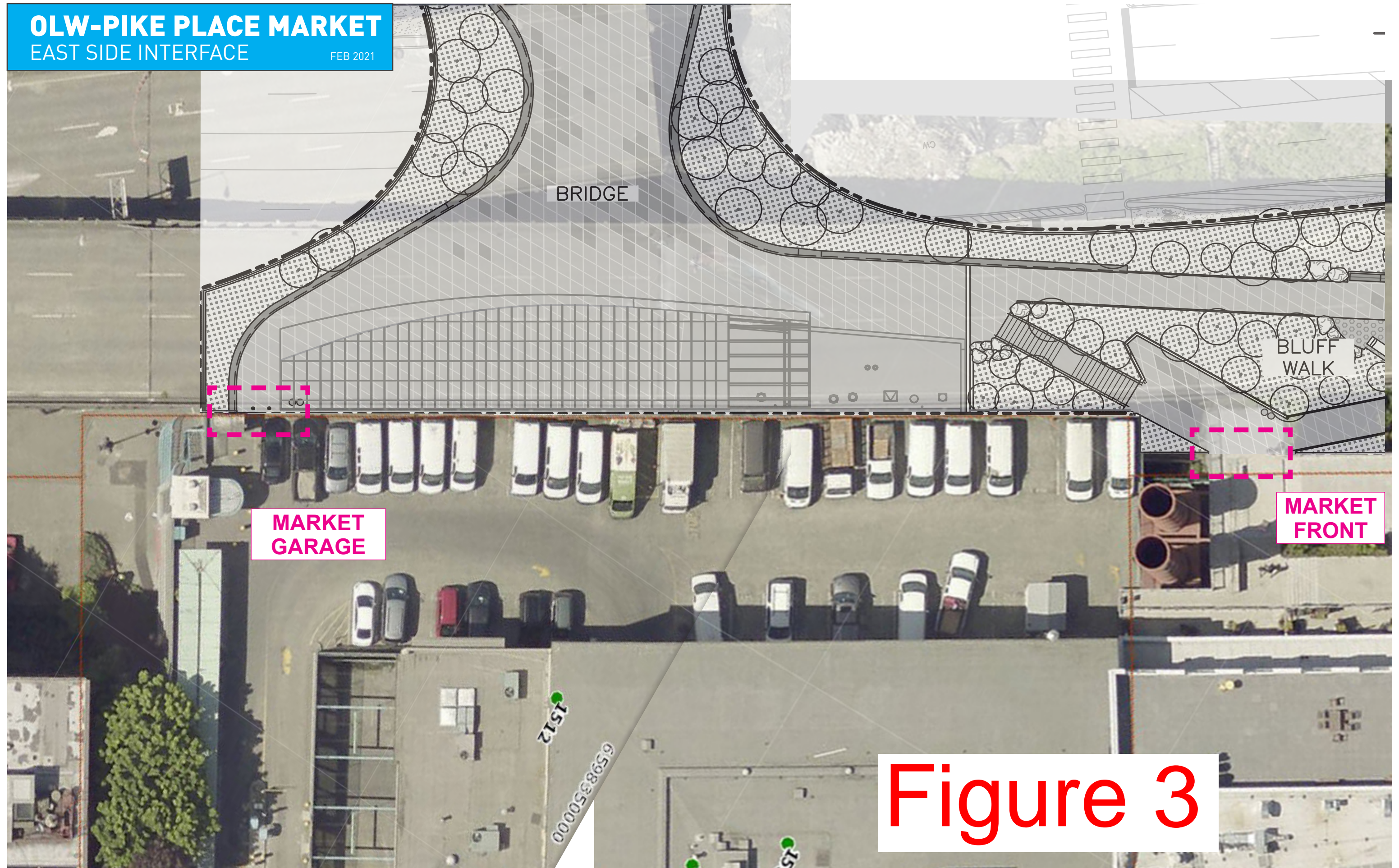
# Figure 1

## ARCHITECTURAL DEMO PLANS WESTERN AND MARKET ACCESS AR010



**OLW-PIKE PLACE MARKET**  
EAST SIDE INTERFACE

FEB 2021



**Figure 3**





Existing Conditions  
Market Front





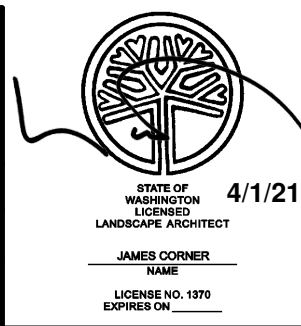
Existing  
Conditions  
Market Front



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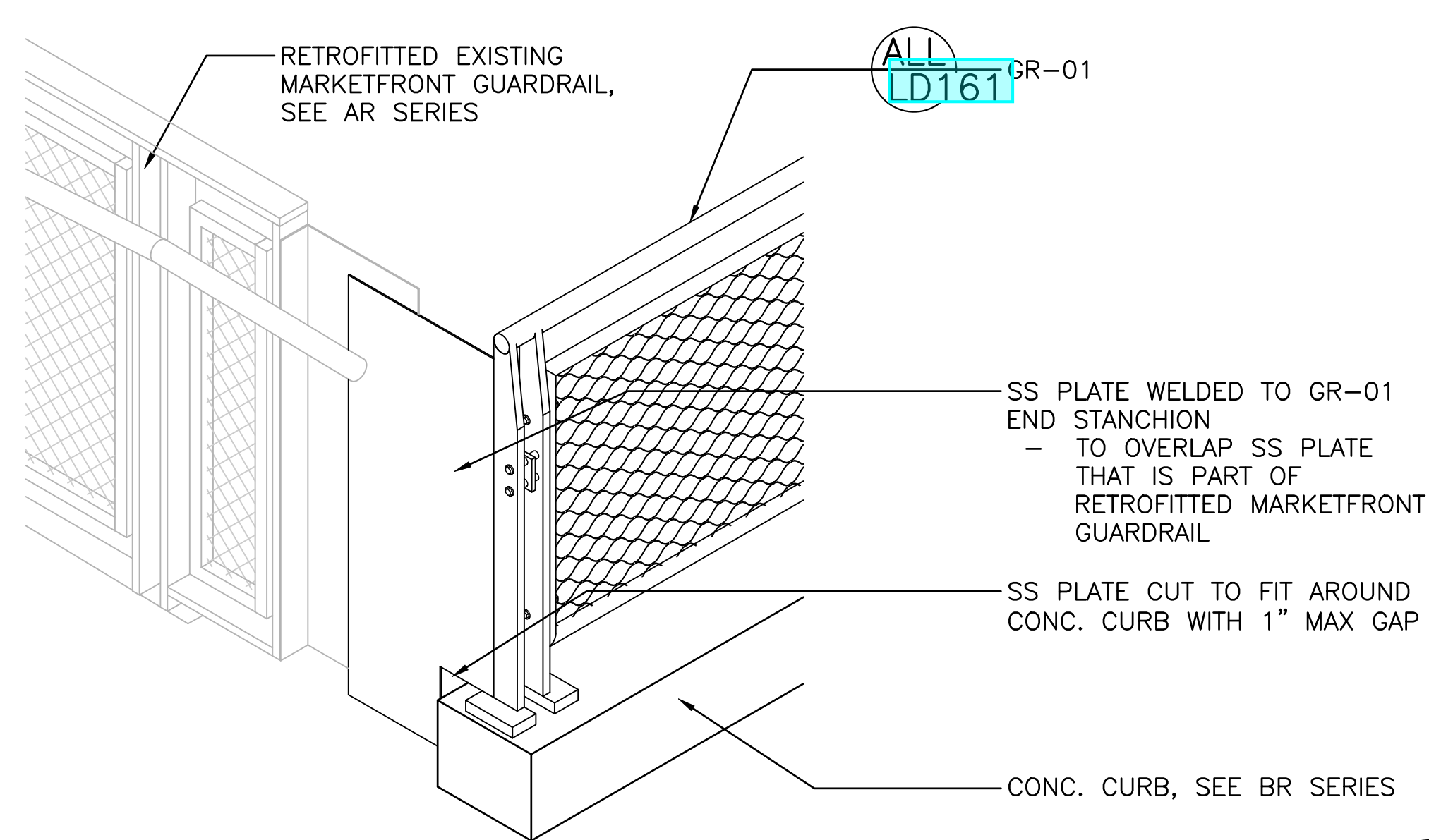
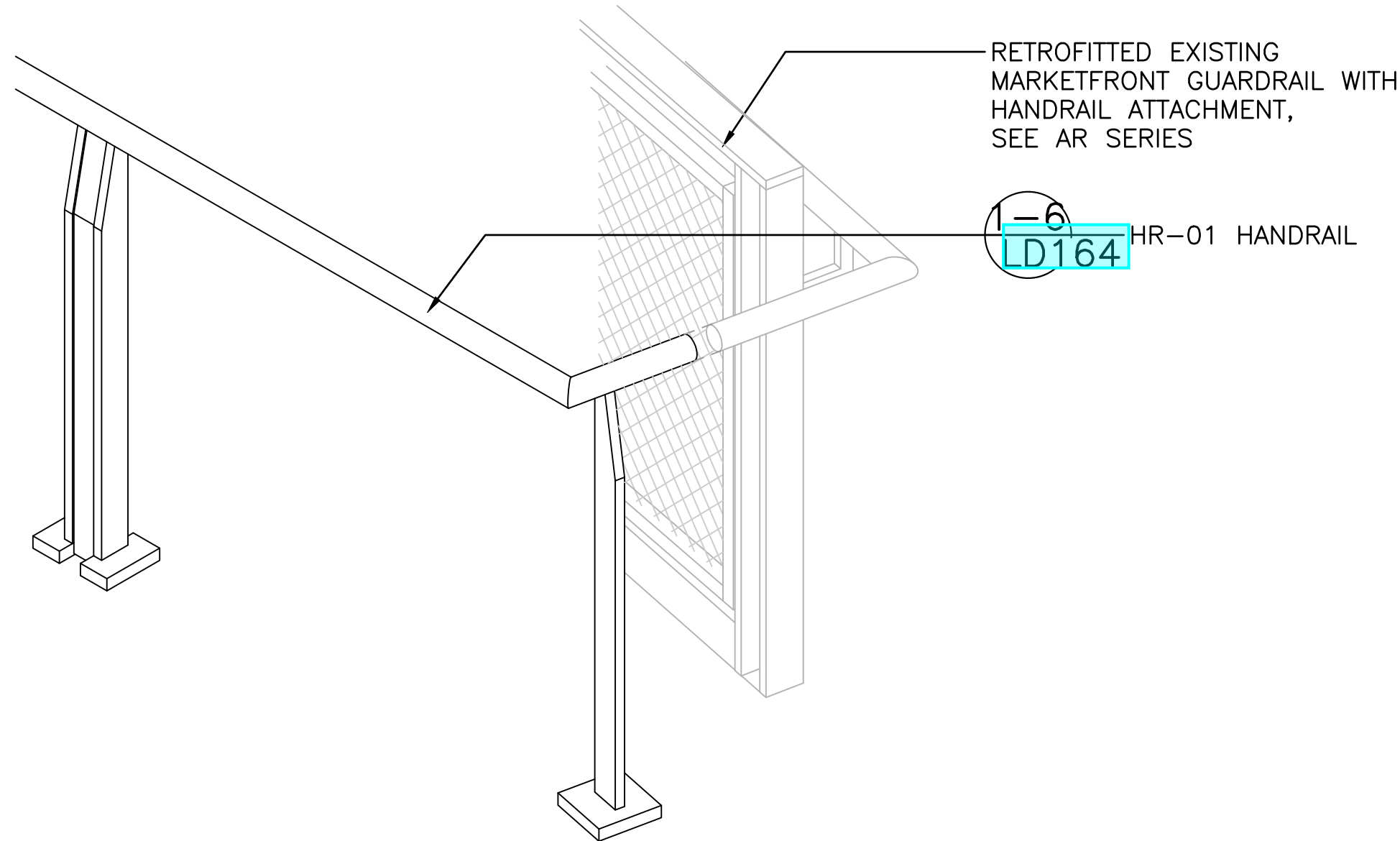


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# WATERFRONT SEATTLE OVERLOOK WALK IMPROVEMENTS

JOB NO.	PC	XX
	R/W	XX
	CO	XX
VAULT PLAN NO. XX		
SHEET 110 OF 559		



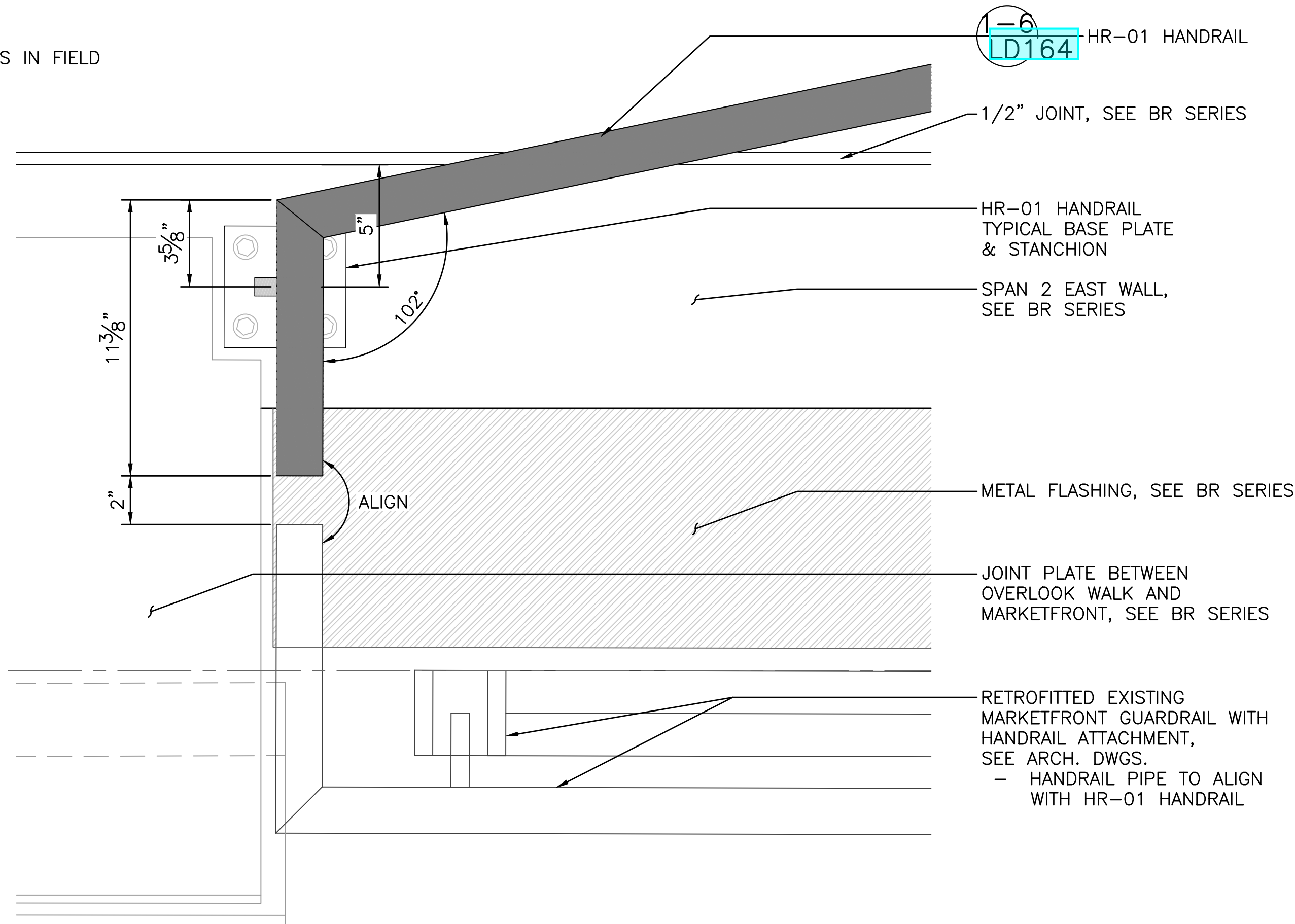
TRANSITION BETWEEN HR-01 AND MARKETFRONT GUARDRAIL – AXON DIAGRAM

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TRANSITION BETWEEN GR-01 AND MARKETFRONT GUARDRAIL – AXON DIAGRAM

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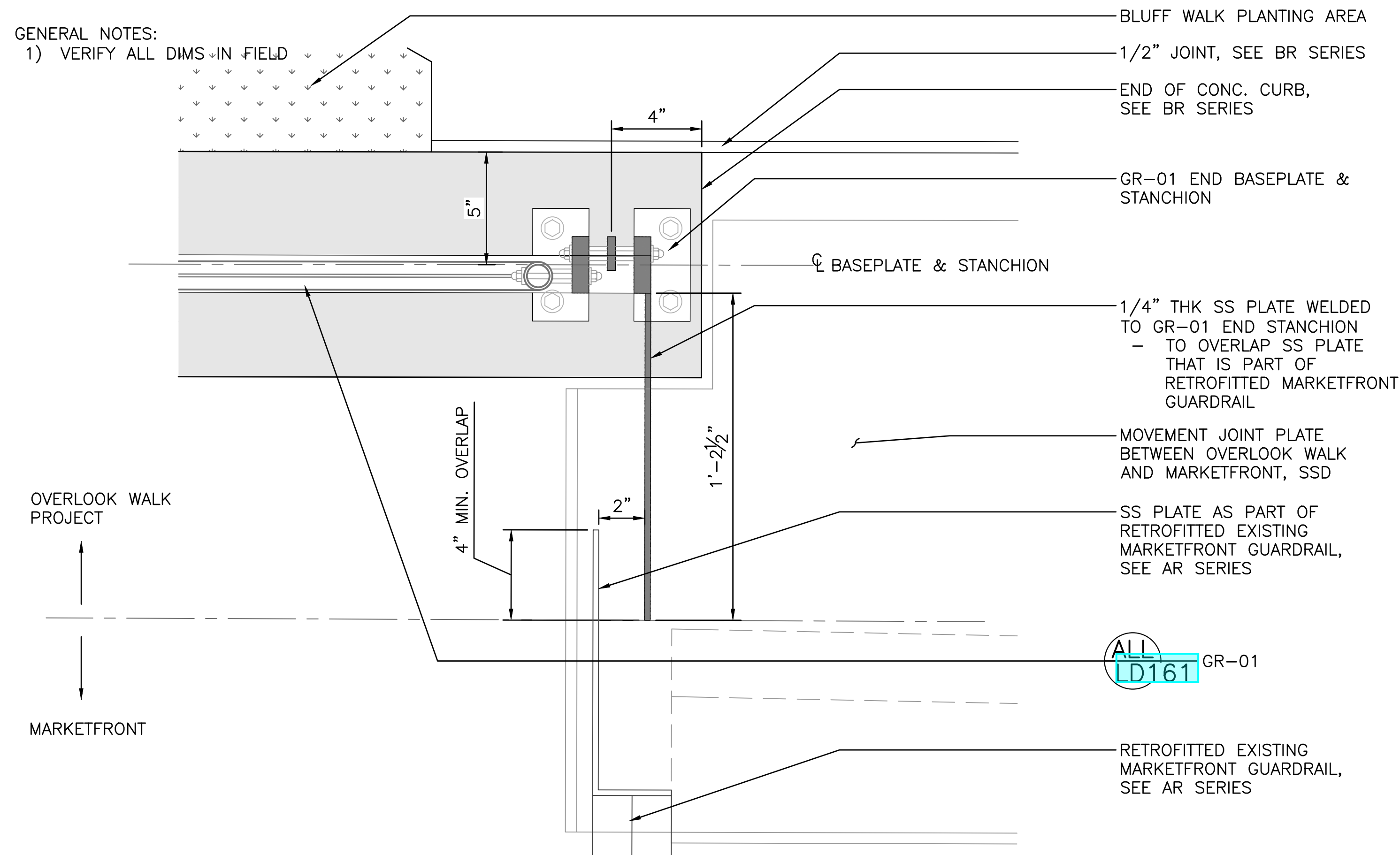
GENERAL NOTES:  
1) VERIFY ALL DIMS IN FIELD



TRANSITION BETWEEN HR-01 AND MARKETFRONT GUARDRAIL – PLAN DETAIL

3

GENERAL NOTES:  
1) VERIFY ALL DIMS IN FIELD



TRANSITION BETWEEN GR-01 AND MARKETFRONT GUARDRAIL – PLAN DETAIL

1

OVERLOOK WALK  
RAILING DETAILS  
LD170

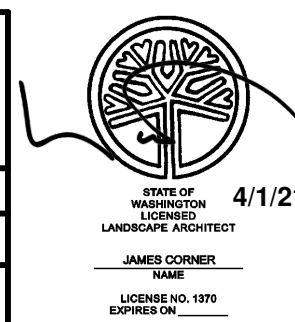
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Transportation

ORDINANCE NO. 125475 PW NO.  
SUBPROJECT ID: TC367330  
SCALE: AS NOTED

WATERFRONT SEATTLE  
OVERLOOK WALK  
IMPROVEMENTS

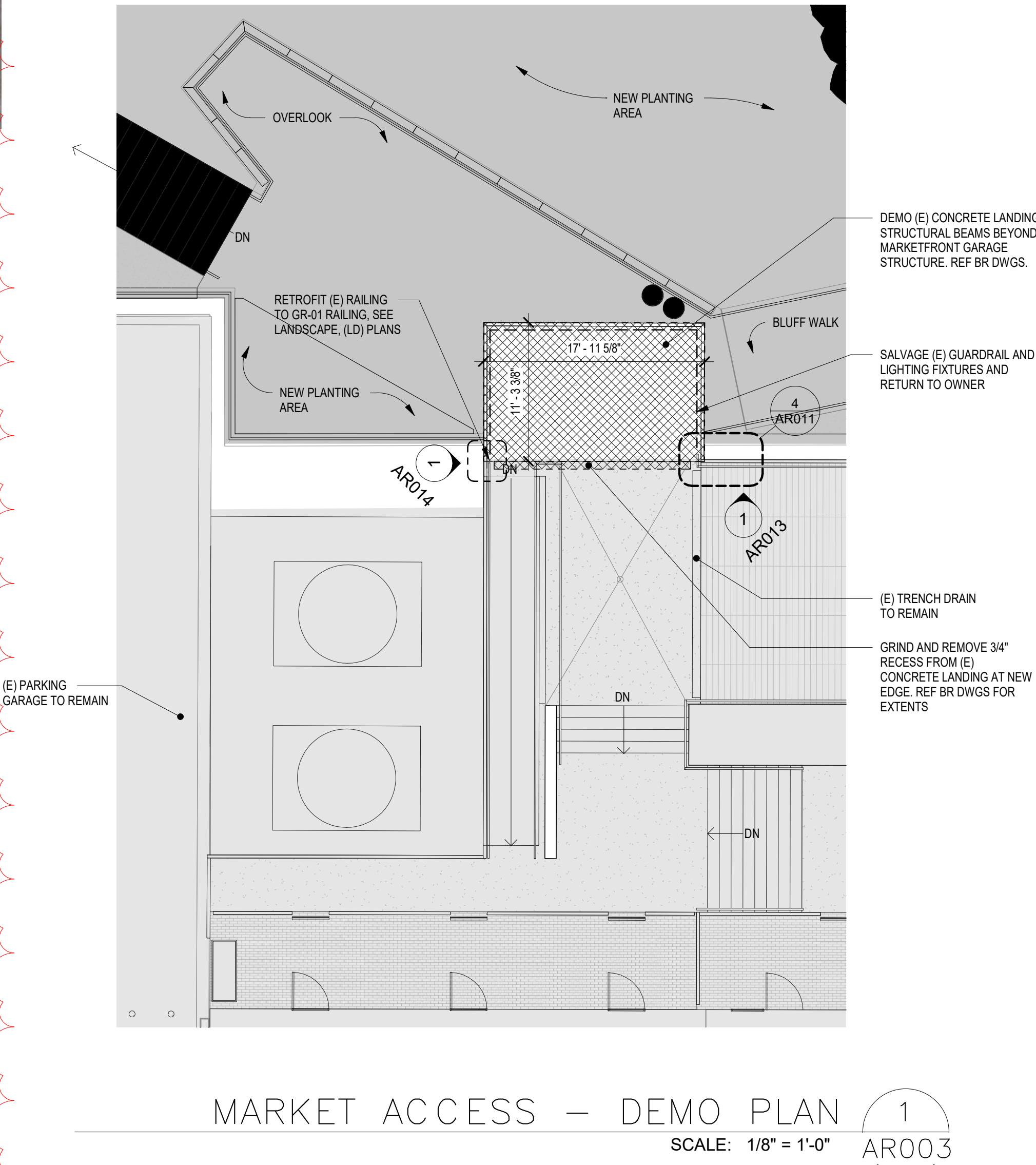
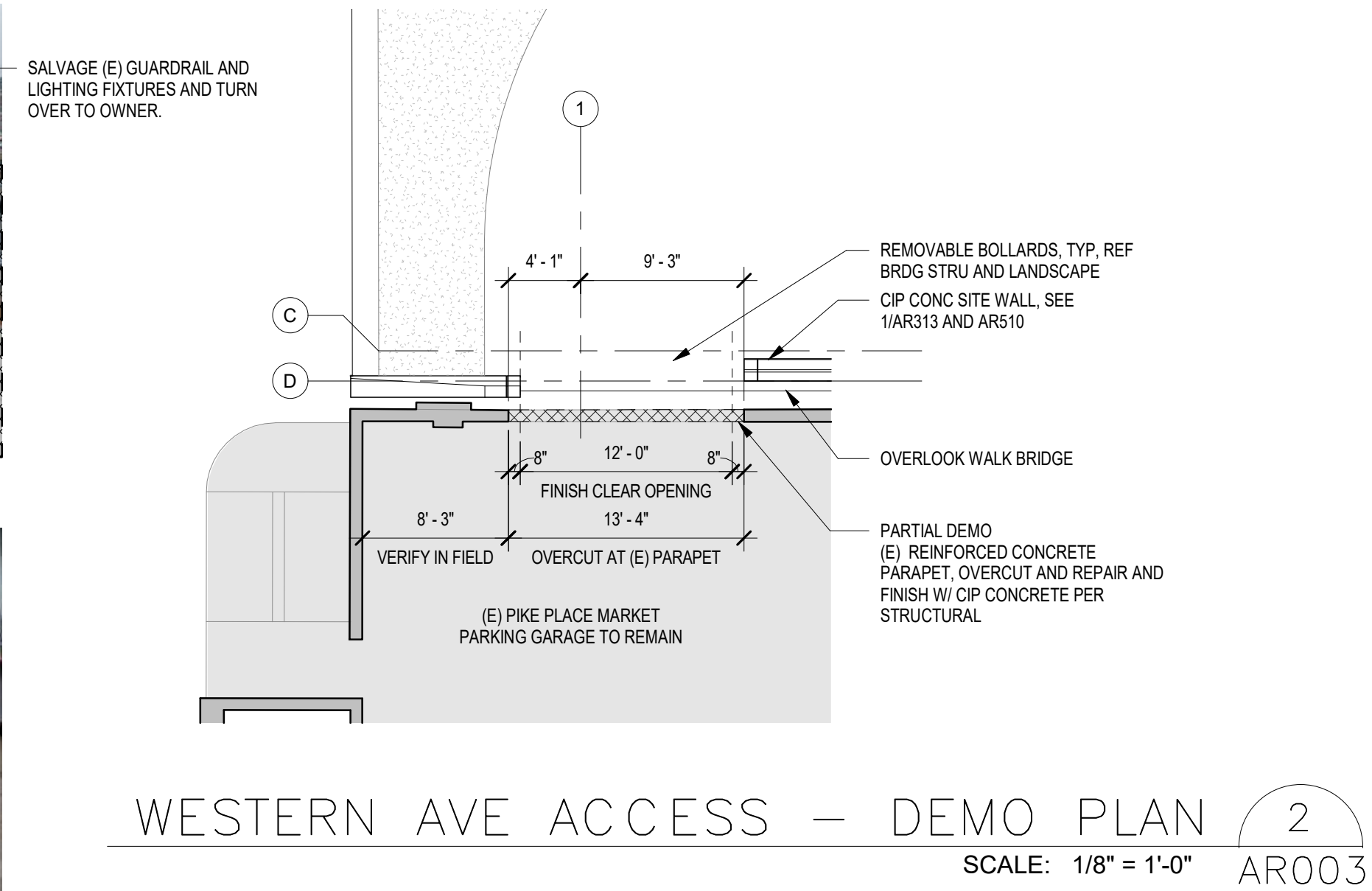
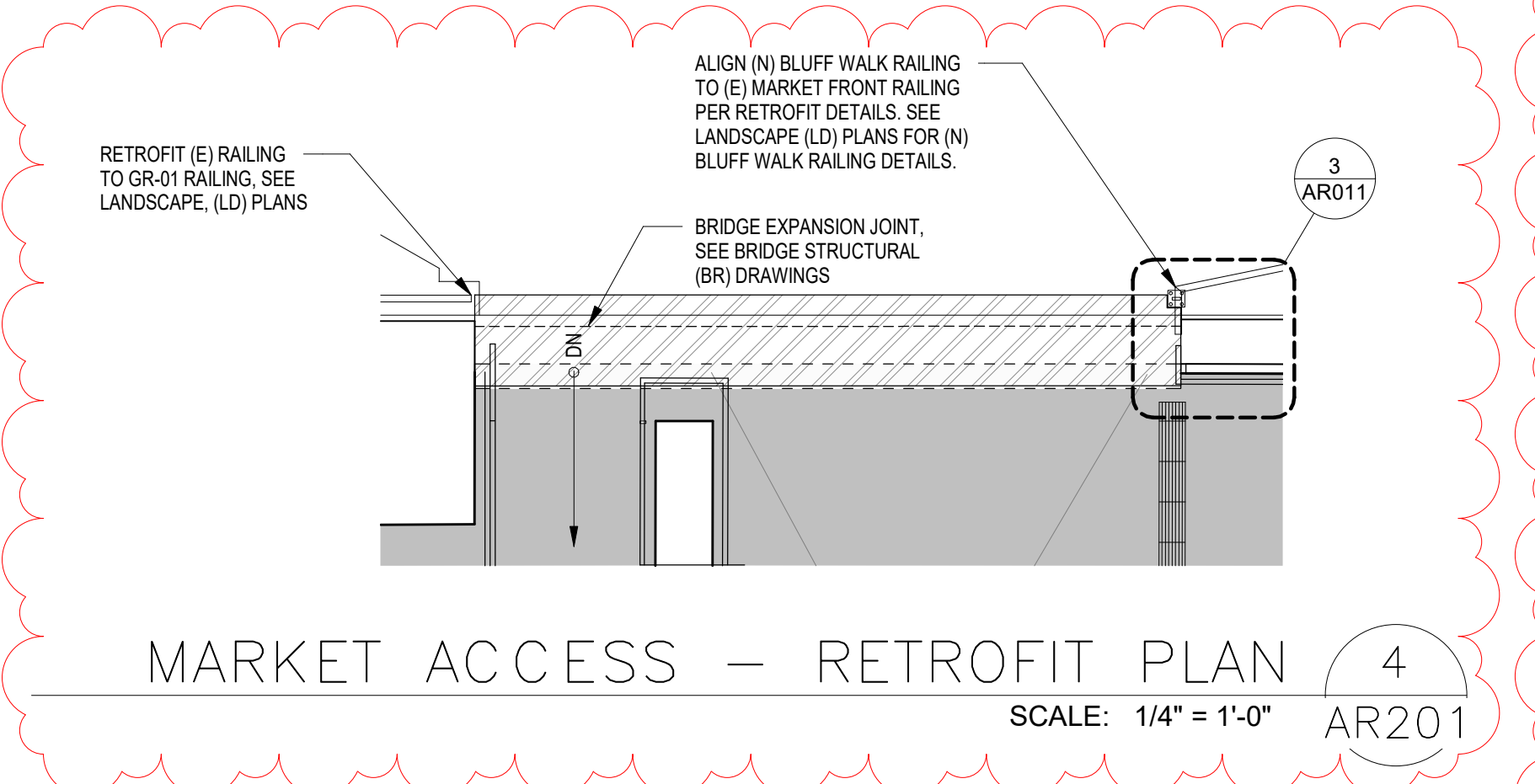
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SHEET 130 OF 559		



REVISIONS		DATE		MARK		NATURE		REVD		DATE		MARK		NATURE		REVD	
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MARKET LEVEL - EXISTING CONDITIONS



- ### DEMOLITION NOTES
- ITEMS NOTED FOR REMOVAL ARE INDICATED TO ESTABLISH GENERAL SCOPE OF DEMOLITION. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND PROVIDE ADDITIONAL DEMOLITION AS NECESSARY TO COMPLETE AND COORDINATE THE WORK.
  - NOTIFY THE OWNER OF EXISTING FURNISHINGS, EQUIPMENT AND MISCELLANEOUS OBJECTS WHICH NEED REMOVAL PRIOR TO THE CONTRACTOR MOBILIZATION. COORDINATE WITH OWNER'S REMOVAL WORK.
  - IMMEDIATELY PROVIDE TEMPORARY PROTECTIVE ENCLOSURES WHERE EXTERIOR BUILDING ENVELOPE ITEMS ARE REMOVED, INCLUDING, BUT NOT LIMITED TO, ROOF OPENINGS, WINDOWS AND DOORS, EXTERIOR WALL OPENINGS, ETC. CONTRACTOR MUST MAINTAIN A WEATHERTIGHT BUILDING AT ALL TIMES. ANY ITEMS INDICATED TO REMAIN THAT ARE DAMAGED BY WEATHER SHALL BE REPLACED TO ORIGINAL CONDITION AT NO COST TO THE OWNER.
  - PATCH ALL EXISTING FLOOR AND WALL PENETRATIONS WHERE PIPING, CONDUIT AND DUCTS ARE REMOVED TO MATCH EXISTING CONSTRUCTION AND FIRE RATING, INCLUDING REPLACING BRICK AND PORTIONS OF BRICK BY SAW CUTTING MORTAR JOINTS AND REMOVAL OF REMNANTS.
  - PROVIDE TEMPORARY SHORING AND BRACING AS REQUIRED FOR SUPPORT DURING DEMOLITION AND CONSTRUCTION.
  - CONFIRM ALL SAWCUT LOCATIONS WITH ARCHITECT PRIOR TO COMMENCING WORK.
  - NOTIFY THE OWNER OF ALL UTILITY SHUTOFFS 72 HOURS IN ADVANCE.
  - REPLACE AND REPAIR ANY INTERFACE AREAS DAMAGED DURING DEMOLITION.
  - CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DOMESTIC WATER, SPRINKLERS, POWER, FIRE ALARM AND TEL-DATA FOR PORTIONS OF THE BUILDING THAT ARE IN USE DURING DEMOLITION WORK. CONTRACTOR IS REQUIRED TO PROTECT EXISTING INFRASTRUCTURE THAT IS REQUIRED TO BE EXTENDED OR CONNECTED TO NEW WORK.
  - PROVIDE TEMPORARY SYSTEMS WHERE REQUIRED BY SEQUENCING OF WORK.

- ### CUTTING AND PATCHING
- EXECUTE CUTTING TO INTEGRATE ELEMENTS OF WORK, UNCOVER ILL-TIMED, DEFECTIVE, AND NON-CONFORMING WORK, PROVIDE OPENINGS FOR PENETRATIONS OF EXISTING SURFACES, AND PROVIDE SAMPLES FOR TESTING.
  - STRUCTURAL ELEMENTS: UNLESS INDICATED OTHERWISE, DO NOT CUT STRUCTURAL ELEMENTS IN A MANNER THAT COULD CHANGE THEIR LOAD-CARRYING CAPACITY OR LOAD-DEFLECTION RATIO. NOTIFY THE ARCHITECT IF STRUCTURAL ELEMENTS WILL BE MODIFIED BEYOND THE EXTENT INDICATED.
  - DO NOT CUT MATERIALS AND COMPONENTS IN A MANNER THAT RESULTS IN REDUCING THEIR CAPACITY TO PERFORM AS INTENDED OR THAT RESULTS IN INCREASED MAINTENANCE OR DECREASED OPERATIONAL LIFE OR SAFETY.
  - DO NOT PENETRATE WATERPROOF MEMBRANES, MOISTURE AND AIR BARRIERS, VAPOR RETARDERS, AND FLASHINGS UNLESS APPROVED OTHERWISE. PATCH AND SEAL PENETRATIONS IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE PRODUCT MANUFACTURER TO MAINTAIN THE LONG-TERM PERFORMANCE OF THE SYSTEM.
  - VISUAL REQUIREMENTS:
    - CUTTING SHALL BE PERFORMED TO THE LEAST DIMENSION POSSIBLE FOR THE CONDITION.
    - CUT IN UNIFORM LINES OR RADIIUS AS NECESSARY TO MINIMIZE THE VISUAL IMPACT OF THE CUTTING AND SUBSEQUENT PATCHING
    - REMOVE AND REPLACE CONSTRUCTION THAT HAS BEEN CUT AND PATCHED IN A VISUALLY UNSATISFACTORY MANNER AS DETERMINED BY THE ARCHITECT.
  - PATCHING:
    - PATCH AND REPAIR CUT ELEMENTS TO INTEGRATE WITH THE ADJACENT CONSTRUCTION.
    - PATCH WITH DURABLE SEAMS THAT ARE AS INVISIBLE AS POSSIBLE.
    - PROVIDE PATCH MATERIALS THAT COMPLY WITH INSTALLATION REQUIREMENTS SPECIFIED IN OTHER SECTIONS OF THESE SPECIFICATIONS.
    - EXPOSED FINISHES: RESTORE EXPOSED FINISHES OF PATCHED AREAS AND EXTEND FINISH RESTORATION INTO RETAINED ADJOINING CONSTRUCTION IN A MANNER THAT WILL ELIMINATE EVIDENCE OF PATCHING AND REFINISHING.
    - SEAL PENETRATIONS THROUGH FLOORS, WALLS, AND CEILINGS.
    - WHERE PATCHING OCCURS IN A PAINTED SURFACE, APPLY PRIMER AND INTERMEDIATE PAINT COATS OVER THE PATCH AND APPLY FINAL PAINT COAT OVER ENTIRE UNBROKEN SURFACE CONTAINING THE PATCH. PROVIDE ADDITIONAL COATS UNTIL PATCH BLENDS WITH ADJACENT SURFACES.

### DEMOLITION PLAN LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE DEMOLISHED
- EXISTING GUARD/RAILING TO BE REMOVED/ SALVAGED
- EXISTING GUARD/RAILING

SCALE IN FEET - 1/8" = 1'

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Revision No. 027  
Market Access Update



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Seattle Department of Transportation  
ORDINANCE NO. \_\_\_\_\_ PW NO. \_\_\_\_\_  
SUBPROJECT ID: \_\_\_\_\_  
SCALE: As indicated

## ARCHITECTURAL DEMO PLANS WESTERN AND MARKET ACCESS AR010

# WATERFRONT SEATTLE OVERLOOK WALK IMPROVEMENTS

PC TS5766A  
R/W  
CO  
VAULT PLAN NO. 790-621  
SHEET 380A OF 424







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- ## **DEMOLITION SHEET NOTES:**
1. REFERENCE SHEETS AR010 FOR DEMOLITION, CUTTING, PATCHING AND VISUAL REQUIREMENTS NOTES.
  2. SALVAGE REMOVED RAILING COMPONENTS FOR USE IN RETROFIT FABRICATION WHERE POSSIBLE.
  3. REFERENCE LANDSCAPE (LD) DRAWINGS FOR BLUFF WALK RAILING DETAILS.
  4. REFERENCE BRIDGE STRUCTURAL (BR) DRAWINGS FOR EXPANSION JOINT DETAILS.

### DEMOLITION PLAN LEGEND

-  EXISTING CONSTRUCTION TO REMAIN  
 EXISTING CONSTRUCTION TO BE DEMOLISHED  
 EXISTING GUARD/RAILING TO BE REMOVED/ SALVAGED  
 EXISTING GUARD/RAILING

ARCHITECTURAL DEMO - DETAILS  
MARKET ACCESS RAILING DEMO & RETROFIT  
AR011

# WATERFRONT SEATTLE OVERLOOK WALK IMPROVEMENTS

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W/FAULT PLAN NO. 790-621		
SHEET 380B OF 424		

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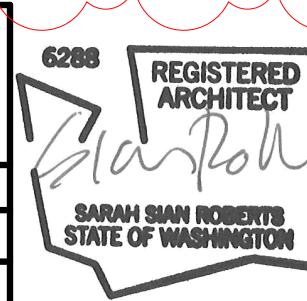
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**Seattle**  
Department of  
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ORDINANCE NO. \_\_\_\_\_  
SUBJECT IS \_\_\_\_\_

SCALE: As indicated

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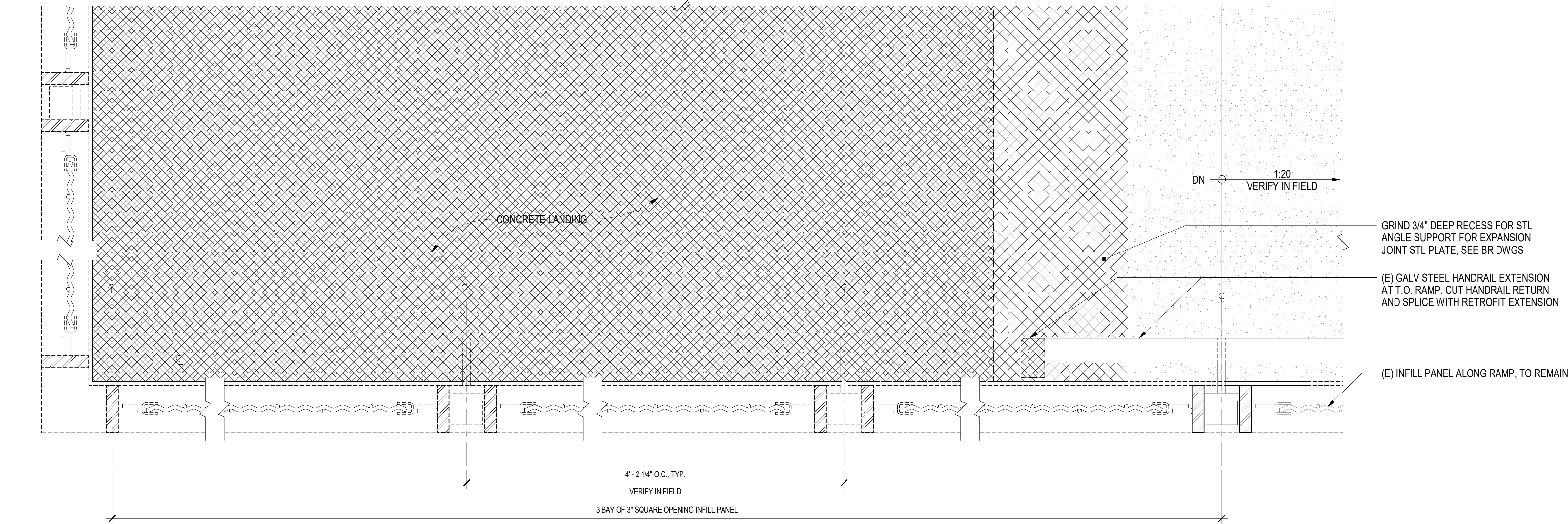
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## DEMOLITION SHEET NOTES

## DEMOLITION PLAN LEGEND



ARCHITECTURAL DEMO - DETAILS  
RAILING DEMO & RETROFIT  
AR012

JOB NO.	PC	TS5766A
	R/W	
	CO	
VAULT PLAN NO. 790-621		
SHEET 380C OF 424		

Revision No. 027  
Market Access Update

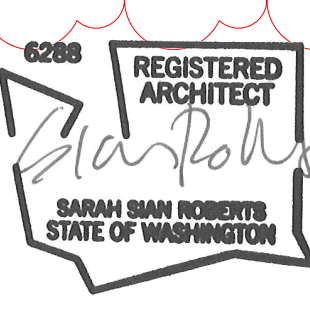


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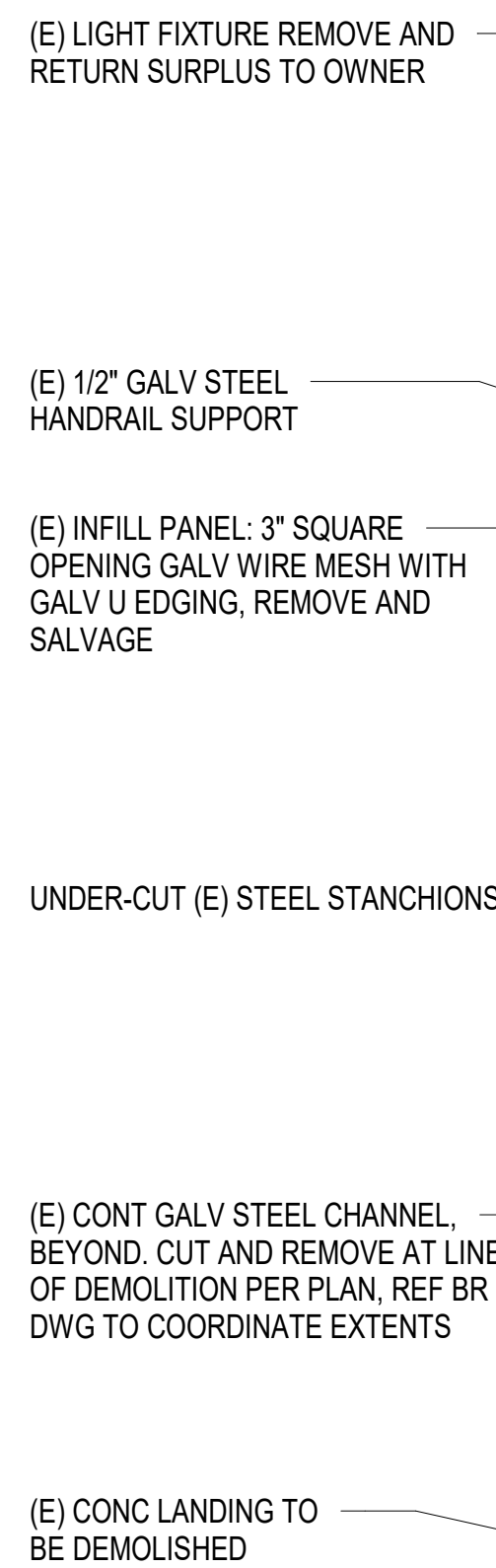


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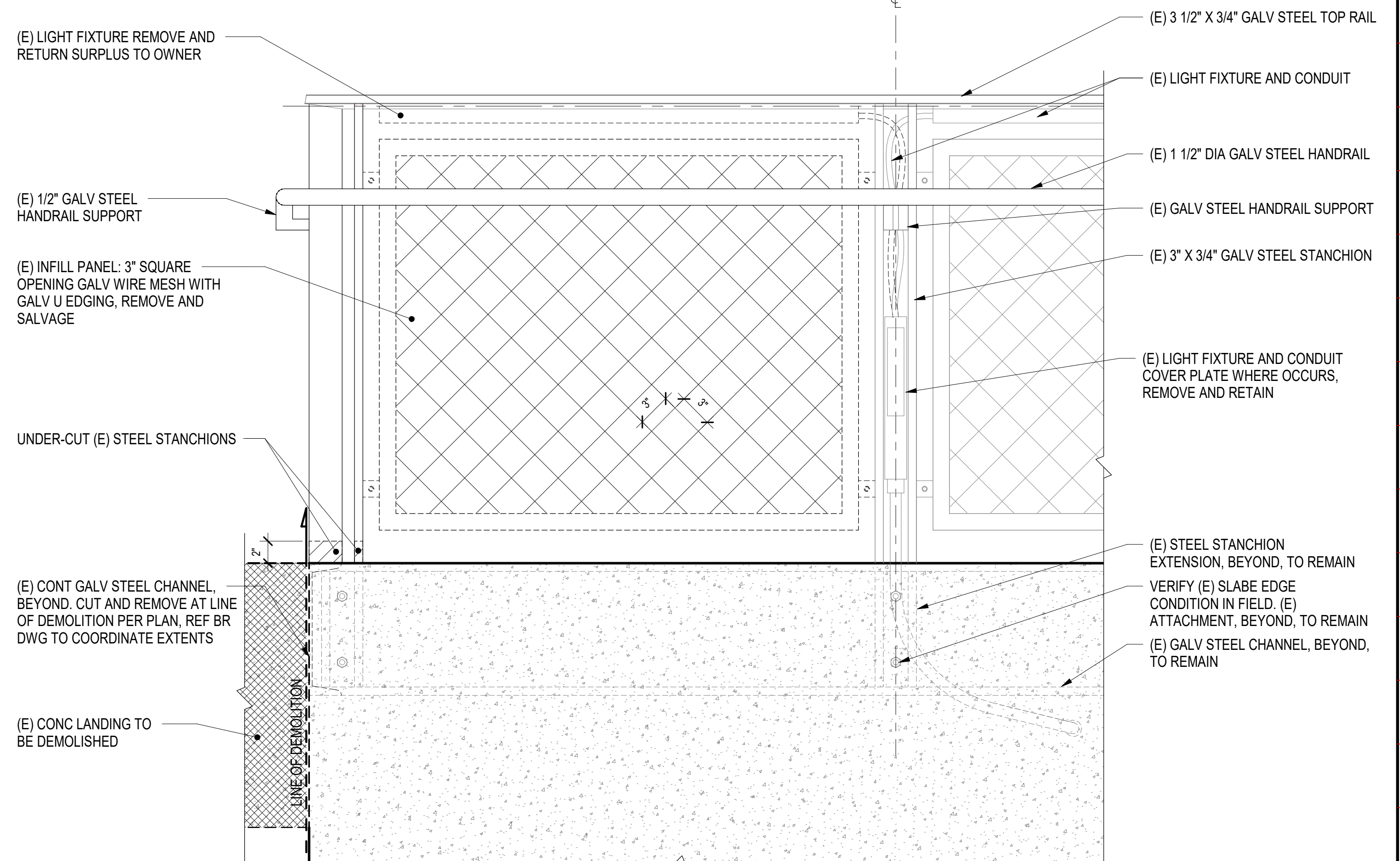


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ELEVATION - GUARD NORTH - DEMO 1  
SCALE: 1 1/2" = 1'-0" AR010

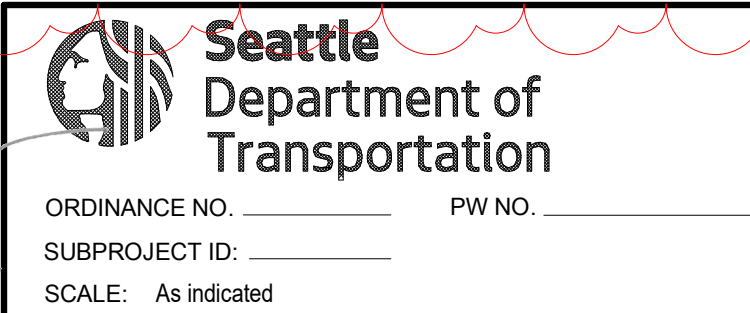
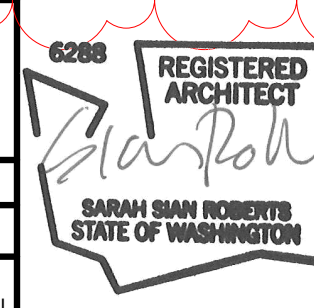


# WATERFRONT SEATTLE OVERLOOK WALK IMPROVEMENTS

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SEATTLE, WASHINGTON 20

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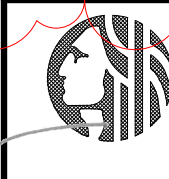




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VAULT PLAN NO. 790-621		
SHEET 380E OF 424		

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SUBPROJECT ID: \_\_\_\_\_  
SCALE: As indicated



**SECTION 32 31 15**  
**GUARDRAIL AND HANDRAIL**

**PART 1 - GENERAL**

**1.1 SUMMARY**

- A. This Section includes specifications pertaining to the guard rails and handrails on the Bluff Walk, Overlook Walk Bridge structure, Stairs and Salish Steps as shown on the Drawings and specified herein. The work performed under this Section includes all labor, material, equipment, related services and supervisions required for the manufacture and erection of the guard rails and handrail shown in the Drawings, including but not limited to:
  - 1. GR-01 Guardrail - Type 1: Typical
  - 2. GR-02 Guardrail – Type 2: with Handrail, with Lighting
  - 3. GR-03 Guardrail – Type 3: with Wood Lean Top, with Handrail, with Lighting
  - 4. HR-01 Handrail – Type 1: without Lighting
  - 5. HR-02 Handrail – Type 2: with Lighting

**1.2 ACTION SUBMITTALS**

- A. Product Data: Submit manufacturer's product data, installation instructions, use limitations and recommendations for each material used. Provide certifications stating that materials comply with requirements.
- B. Shop Drawings: Provide large scale shop drawings for fabrication, installation, and erection of parts of Work. Provide plans, elevations, and details of anchorages, connections, and accessory items and all calculations as required, including all work necessary to accept lighting in all railing types as shown in the Drawings. Provide installation templates for Work installed by others.
  - 1. Engineering design and calculations the work under Article 3.2, Performance Requirements, herein.
  - 2. For flexible mesh infill, show layout, sizes, dimensions, details, and installation of railing frame components. Include mesh aperture and rope dimensions, cable and mesh attachment hardware, tensioning devices, and mounting methodology.
  - 3. Where welded connections are called for, indicate welds in accordance with AWS Standards.
- C. Samples for initial selection:
  - 1. Provide a minimum 12-inch-long sample of Wood Lean Top.
  - 2. Provide a minimum 12-inch-long sample of Railing post types.
  - 3. Provide a minimum 12-inch-long sample of Railing handrail sections.



4. Provide a minimum 18-inch by 24-inch sample of Railing stainless steel flexible mesh infill with a frame.
5. Provide a minimum 18-inch by 24-inch sample of Perforated Metal infill
6. Provide a minimum 12-inch-long sample of each Handrail post type.
7. Provide a minimum 48-inch-long sample of HR-01
8. Provide a minimum 48-inch-long sample of HR-02 both with lighting installed.
9. Provide samples of exposed fittings and brackets.

### 1.3 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For qualified professional engineer, if required.
- B. Welding Procedure Specifications and Welder Qualifications
- C. Mill Certificates: Signed by manufacturers of stainless-steel products certifying that products furnished comply with requirements.
- D. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing

### 1.4 MOCK UPS

- A. Mockups: Build full scale mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for fabrication and installation.
  1. Build mockups in the location and of the size indicated or, if not indicated, as directed by the Engineer, including:
    - a. GR-02 Guardrail – Type 2A: Min. 8-foot-long segment.
    - b. GR-03 Guardrail – Type 3: Min. 8-foot-long segment.
    - c. HR-02 Handrail – Type 2: Min. 8-foot-long segment.
  2. Notify the Engineer 7 days in advance of dates and times when mockups will be constructed.
  3. Demonstrate the proposed range of aesthetic effects and workmanship.
  4. Where lighting is integrated into the Guardrail or Handrail, provide lighting an required power to show lighting at the time of the Engineer's review of the mockup.
  5. Obtain the Engineer's approval of mockups before starting railing installation.
  6. Maintain mockups during construction in an undisturbed condition as a standard for judging the completed Work.
  7. Demolish and remove mockups when directed.



8. Approved mockups may become part of the completed Work.

## 1.5 QUALITY ASSURANCE

- A. General: Work of this section must be fabricated and installed by an experienced fabricator or manufacturer, who has been engaged in work of equivalent scope and fabrication standards for at least 5 years. Materials, methods of fabrication, fitting, assembly bracing, supporting, fastening, operating devices and erection must be in accordance with drawings and specifications, approved shop drawings, and be of highest quality practices of the industry, using new and clean materials as specified in the Contract Documents, having structural properties sufficient to safely sustain or withstand stresses and strains to which materials and assembled work will be subjected. All work must be accurately and neatly fabricated, assembled and erected.
- B. Fabricator Qualifications: A qualified fabricator who participates in the AISC Quality Certification Program and is designated an AISC-Certified Plant. Fabricator must be experienced in preparation of shop drawings using integrated three-dimensional modeling software linking all major structural piece marks and overall framing model.
- C. Installer Qualifications: A qualified installer who participates in the AISC Quality Certification Program.
- D. Engineer Qualifications: Professional engineer legally authorized to practice in the State of Washington and experienced in providing engineering services of the kind indicated for handrails and railing systems similar to this Project in material, design, and extent, and that have a record of successful in-service performance.
- E. Welding: Quality procedures and personnel qualifications according to AWS D1.6, "Structural Welding Code-Stainless Steel".
- F. Single-Source Responsibility: Obtain handrails and railing systems of each type and material from a single manufacturer.
- G. Preassemble handrails and railings to greatest extent possible to minimize field splicing. Disassemble units as required for shipping and handling. Clearly mark units for reassembling in field.
- H. Contractor must assign a qualified staff member to perform quality control on the Contractor's own work in the field on a daily basis, for each day work is performed. The Contractor's quality control staff must review its own work for compliance with the Contract Documents before the Contractor notifies the Engineer, of readiness for required inspections, tests and observations to be provided by the Engineer or the City.
- I. Preinstallation Conference: Conduct conference at Project site.

## PART 2 - PRODUCTS

### 2.1 METALS, GENERAL

- A. Provide materials, which have been selected for their surface flatness, smoothness and freedom from surface blemishes where exposed to view in the finished unit. Exposed to view surfaces,



which exhibit pitting, seam marks, roller marks, "oil-canning" stains, discolorations, burns, burrs, rough-ground ends, or other imperfections on the finished units, will not be acceptable.

## 2.2 STAINLESS STEEL

A. Unless shown otherwise in the Drawings, materials must meet the following requirements:

1. Plates: ASTM A666 Grade 316\*, except where 316N shown
2. Bars and Shapes: ASTM A276 Grade 316\*
3. Tubing: Cold-formed steel tubing complying with ASTM A 554 Grade 316\*
4. Hollow Steel Sections (HSS): Cold-formed steel tubing complying with ASTM A 554 Grade 316L\*\*

\*For elements that require welding, Grade 316L stainless steel must be used.

\*\*For elements that do not require welding, Grade 316 stainless steel may be used.

## 2.3 STAINLESS STEEL FLEXIBLE MESH INFILL

A. Stainless Steel Flexible Mesh Infill and Anchoring Clamp:

1. Material: ASTM A 492 Type 316 stainless steel wire rope with stainless steel frame
2. Frame dimensions: 26 mm Round,
3. Anchoring Clamp: Two-way clamp for 26 mm Round Frame.
4. Cable Diameter: 1.5 mm.
5. Mesh Aperture Dimensions: 40 by 75 mm.
6. Direction (Grain) of Mesh: Long dimension of grain must be oriented parallel to finished surface, as indicated in the Drawings.
7. Net Finish: Stainless Steel.
8. Manufacturer:

a. Jakob Inc.

955 NW 17th Ave, Suite B Delray Beach, FL 33445  
(561) 330-6502  
[www.jakob-usa.com](http://www.jakob-usa.com)  
Model: Jakob Webnet Invis R

b. Or approved equal

## 2.4 STAINLESS STEEL PERFORATED METAL INFILL

B. Acceptable Manufacturers:

1. Grating Pacific, 19411 6<sup>th</sup> Avenue South, Kent, WA, 98032, Phone: 1-800-243-3939, Fax: 1-253-872-8833, Website: [www.gratingpacific.com](http://www.gratingpacific.com); or approved equal.



- C. Metal: 316 Stainless Steel
- D. Perforation Type:
  - 1. Round Hole, Staggered Pattern
  - 2. Perforation Size and Spacing: 3/16-inch round hole on 1/4-inch staggered pattern
    - a. Provide 2-inch border of non-perforated metal between punched hole and edge of metal panel
- E. Gauge: 16

#### 2.4 WOOD LEAN RAIL

- A. Certified Wood: Wood products must be certifiably reclaimed or produced from wood obtained from forests certified by an FSC-accredited certification body to comply with FSC STD-01-001, "FSC Principles and Criteria for Forest Stewardship."
  - 1. The certifying body must be an independent third-party inspection organization accredited by the FSC, such as Smartwood, Richmond, VT (802) 434-5491, Scientific Certification Systems, Oakland, CA. (510) 832-1415, or approved equal. Third-party certification is a mechanism to verify responsibly managed forestry operations along with a labeling system to recognize the products derived from those forests.
  - 2. Forest product certification involves an independent evaluation of a landowner's forestry practices according to strict environmental and socioeconomic standards. Lumbering operations that are awarded certification may label their products as originating from a well-managed forest. Primary and secondary manufacturers who wish to sell certified wood must go through a chain of custody certification which assures consumers that the lumber originated from a certified forest.
- B. Provide boards and timber surfaced smooth on four sides with eased edges hand selected for freedom from characteristics, on exposed surfaces and edges, that would impair finish appearance, including decay, honeycomb, knot holes, shake, splits, torn grain, wane, pitting, "oil-canning" stains, discolorations or other imperfections.
- C. Contractor must calculate and provide material quantities required for final installation. All necessary deviations due to unforeseen conditions or availability of material must be discussed and approved by the Engineer prior to installation.
- D. Timber and Wood Plug for Wood Lean Rail: FSC certified Reclaimed Western Red Cedar.
- E. Grade: FAS 100 percent clear heart grade, Select Grade or better, and must be certified by the lumber supplier and bearing the stamp of the National Hardwoods Lumber Association (NHLA)
  - 1. All wood must be 100% Heartwood, from outside of the pith
  - 2. Knots – All edges and ends must be free from knots to the greatest extent possible.
  - 3. Holes – Not allowed.
  - 4. Ring Shake – Not allowed.



5. Warp (bow, cup, crook and twist) – None.
  6. Splits and Checks – None.
  7. Wane and Bark Inclusions – Not allowed.
  8. Decay – Not allowed.
  9. All other defects – Not allowed.
  10. All timbers must be dense, containing not less than six annular rings per inch and 1/3 or more of summer wood.
  11. Timber must be straight-grained and parallel cut without heart center.
  12. Timber must be selected for their surface flatness, smoothness, and freedom from surface blemishes where exposed to view in the finished unit. Exposed-to-view surfaces which exhibit pitting, “oil-canning” stains, discolorations or other imperfections on finished units will not be acceptable
- F. Dimensions for Wood Lean Rail: Boards and timber sizes as shown on the Drawings for Wood Lean Rail are noted as actual sizes and must have a net section bearing the dimensions noted on the Drawings, as opposed to nominal sizes, unless noted otherwise.
- G. Seasoning: In order to reduce warping, checking, cracking, wood must be air-dried to within 2 percent of the average EMC for the Project area in accordance with USDA FPL-RN-268, prior to installation. Within 24 hours after felling, rough cut timbers must be stored in a dark dry location away from direct sunlight for a minimum of 8 months and optimally for 1 year or longer before milling. Drying lumber to be stacked in regular layers and separated by uniform stickers to ensure uniform restraint in a course. The stack must be lifted off the ground to allow for uniform air-flow and to reduce warping.
- H. Milling: Wood must be planed with a cutter blade. Blade must be changed frequently to ensure a clean and regular surface finish. Surface boards smooth on four sides with eased corners.
- I. Seasoning and Milling: Seasoning and milling must be undertaken by a broker with minimum 3-years’ experience.
- J. Acceptable Supplier:
1. Sustainable NW Wood, 2701 SE 14<sup>th</sup> Avenue, Portland, OR 97202, tel: 503-239-9663, terry@snwwood.com
  2. Hancock Timber Resource Group, Robert Bass, email: rbass@hnrg, HQ Phone: 617-747-1600, HQ Address: 197 Clarendon St. C-08-99, Boston, MA 02116.
  3. Iron Woods, 451 South River Rd. Bedford, NH 03110, 1-888-932-9663.
  4. Walk Green, Tess Lindsey, tel: 360.779.3275, cell: 530.410.5845, 20301 Bond Road, Suite 110 fax: 360.779.3918, Poulsbo, WA 98370, tess@worldforest.com.
  5. Pacific Northwest Timbers, PO Box 1931, 130 Seton Road, Port Townsend, WA 98368; 360-379-2792; pacificnorthwesttimbers.com.



6. Or approved equal.

## 2.5 FASTENERS

- A. Fastener Materials: Unless otherwise indicated, provide the following:
  1. Stainless-Steel Components: Type 316 stainless-steel fasteners.
  2. Dissimilar Metals: Type 316 stainless-steel fasteners.
  3. Wood Lean Rail: #12 by 1-inch Flat Head Square Drive Stainless Steel Wood Screws
  4. UV Rated Rubber Gaskets: Use Rubber/PVC separation gaskets to separate dissimilar metals, as indicated in Drawings, and as necessary to prevent corrosion.
- B. Fasteners for Anchoring to Other Construction: Select fasteners of type, grade, and class required to produce connections suitable for anchoring railings to other types of construction indicated and capable of withstanding design loads.
  1. Provide concealed fasteners for interconnecting railing components and for attaching railings to other work unless otherwise indicated.
  2. Provide tamper resistant flat-head screws for exposed fasteners, unless otherwise indicated.

## 2.6 MISCELLANEOUS MATERIALS

- A. Nonshrink, Nonmetallic Grout: Factory-packaged, non-staining, noncorrosive, nongaseous grout complying with ASTM C1107. Provide grout specifically recommended by manufacturer for interior and exterior applications.
- B. Anchoring Cement: Factory-packaged, non-shrink, non-staining, hydraulic-controlled expansion cement formulation for mixing with water at Project site to create pourable anchoring, patching, and grouting compound.
  1. Water-Resistant Product: At exterior locations provide formulation that is resistant to erosion from water exposure without needing protection by a sealer or waterproof coating and that is recommended by manufacturer for exterior use.

## 2.7 FINISHES

- A. General Finish Requirements
  1. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
  2. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipment.
  3. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Variations in appearance of other components



are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

4. Provide exposed fasteners with finish matching appearance, including color and texture, of railings.

### **PART 3 - EXECUTION**

#### **3.1 DRAWINGS AND SPECIFICATIONS DESIGN INTENT**

- A. Specifications and scale drawings are intended to convey the salient features, function and character of the custom railings only and do not undertake to illustrate or set forth every item or detail necessary for the Work.
- B. Minor details, not usually indicated in the Drawings nor specified, that are necessary for the proper execution and completion of the railings must be included, the same as if they were herein specified or indicated in the Drawings.
- C. Omissions: The City must not be held responsible for the omission or absence of any detail or construction feature, which may be required in the production of the railings. The responsibility of accurately fabricating the custom furniture to the fulfillment of this specification rests with the Contractor.

#### **3.2 PERFORMANCE REQUIREMENTS**

- A. General: The Drawings and Specifications indicate design intent, criteria and performance requirements of the work. The requirements shown by the details are intended to establish basic dimensions of the module and the sightlines, jointing and profiles of members. Within these parameters, the Contractor is responsible for the final design and engineering of the system, including whatever modifications and additions may be required to meet the specified requirements and maintain the visual design concept of the entire Project.
- B. For all elements requiring engineering, engineering plans and design calculations submitted to Engineer must be prepared by or under the direct supervision of a Professional Engineer, licensed under Title 18 RCW, State of Washington, in the branch of Civil or Structural Engineering. Design calculations and design plans must comply with the Shop Drawing and Professional Engineer submittal requirements of Section 00 52 00, Article 3-01, Control of Work.
- C. Structural Performance of Guardrail and Handrails Systems: Engineer, fabricate, and install handrails and railing systems to withstand the structural loads indicated in the latest Seattle Building Code without exceeding the allowable design working stress of the materials involved, including anchors and connections. Apply each load to produce the maximum stress in each of the respective components of each metal fabrication.
- D. Performance Requirements for Stainless Steel Flexible Mesh Infill: Engineer, fabricate, and install infill panel of a dimension and span so that the installation is rigid and able to withstand the live loads of a typical person standing on them without permanently deflecting or warping the material.
- E. Thermal Movements: Allow for thermal movement resulting from the following maximum change (range) in ambient temperature in engineering, fabricating, and installing handrails and railing systems to prevent buckling, opening of joints, overstressing of components and connections,



damage to adjoining construction, and other detrimental effects. Base engineering calculations on actual surface temperatures of materials due to both solar heat gain and nighttime sky heat loss.

1. Temperature Change (Range): 120 degrees F ambient, 180 degrees F material surfaces.

F. Control of Corrosion: Prevent galvanic action and other forms of corrosion by insulating metals and other materials from direct contact with incompatible materials.

### 3.3 FABRICATION

A. General: Fabricate railings to comply with requirements indicated for design, dimensions, member sizes and spacing, details, finish, and anchorage, but not less than that required to support structural loads.

B. Assemble railings in the shop to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation. Use connections that maintain structural value of joined pieces.

C. Top Rail Spacers and Base Plate Spaces: Attach all Top Rail Spacers and Base Plate Spacers to frame as indicated in the Drawings prior to arrival on site.

D. Holes in Steel: Provide holes required for securing other work to steel and for passage of other work through steel members. Cut, drill, or punch holes perpendicular to steel surfaces. Do not thermally cut bolt holes or enlarge holes by burning.

E. Stainless Steel Flexible Mesh Infill: Flexible Mesh Infill and frame to be assembled in shop as part of the railing module.

1. Install mesh infill system in accordance with manufacturer's instructions and the approved Shop Drawings. Install mesh panel infill system plumb, level, square, and taut.

2. Ensure mesh is clean, and without waves, kinks, or sags.

3. Adjust frame support cable tension and connecting hardware.

4. The installation tension must be provided from manufacturer.

F. 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. For all handrailing, refer to Para. 505.8 Handrail – Surfaces in 2010 ADA Standards for Accessible Design issued on September 15, 2010 by Department of Justice.

G. Form Work true to line and level with accurate angles and surfaces.

H. Fabricate work to be truly straight, plumb, level and square and to sizes, shapes and profiles indicated on Drawings and approved shop drawings. Ease exposed edges.

I. Fabricate all miscellaneous metal supports, brackets, braces, and the like to fully complete the work under this Section.



- J. Fabricate connections that will be exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate. Locate weep holes in inconspicuous locations.
- K. Cut, reinforce, drill, and tap as indicated to receive finish hardware, screws, and similar items.
- L. Connections: Fabricate railings with welded connections unless otherwise indicated.
- M. Welded Connections (Shop Connections): Comply with AWS D1.6/D1.6M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting welding work, Section 10 "Architecturally Exposed Structural Steel" of the AISC Steel Construction manual and comply with the following.
  - 1. Assemble and weld built-up sections by methods that will maintain true alignment of axes without exceeding specified tolerances.
  - 2. Use weld sizes, fabrication sequence, and equipment that limit distortions to allowable tolerances.
  - 3. Provide continuous welds of uniform size and profile.
  - 4. Make butt and groove welds flush to adjacent surfaces within tolerance of plus 1/16 inch, minus zero inch (plus 1.5 mm, minus zero mm). Do not grind unless required for clearances or for fitting other components, or unless directed to correct unacceptable work.
  - 5. Where necessary, grind butt and groove welds flush to adjacent surfaces within tolerance of plus 1/16 inch, minus zero inch (plus 1.5 mm, minus zero mm).
  - 6. At locations where welding on the far side of an exposed connection occurs, grind distortions and marking of the steel to a smooth profile aligned with adjacent material.
  - 7. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
  - 8. Make fillet welds of uniform size and profile with exposed face smooth and slightly concave. Do not grind unless directed to correct unacceptable work.
  - 9. At exposed connections, finish exposed welds to comply with NOMMA's "Voluntary Joint Finish Standards" for Type 1 welds: no evidence of a welded joint.
  - 10. Welds must be performed in the shop to the greatest extent possible.
- N. Bolted connections must allow for field adjustment. Shop drawings must indicate where field adjustment is provided.
- O. Mechanical Connections: Connect members with concealed mechanical fasteners and fittings. Fabricate members and fittings to produce flush, smooth, rigid, hairline joints.
  - 1. Fabricate splice joints for field connection using an epoxy structural adhesive if this is manufacturer's standard splicing method.
- P. Use full length pieces. Minimize all splices. Locate splices at locations as approved by Engineer.
- Q. Form changes in direction as follows:



1. As detailed.
  2. By bending to smallest radius that will not result in distortion of railing member.
- R. Bend members in jigs to produce uniform curvature for each configuration required; maintain cross section of member throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces of components.
- S. Close exposed ends of hollow railing members with prefabricated end fittings.
- T. Brackets, Flanges, Fittings, and Anchors: Provide wall brackets, flanges, miscellaneous fittings, and anchors to interconnect railing members to other work unless otherwise indicated.
- U. Provide inserts and other anchorage devices for connecting railings to concrete. Fabricate anchorage devices capable of withstanding loads imposed by railings. Coordinate anchorage devices with supporting structure.

### 3.4 PROJECT CONDITIONS

- A. Field Measurements: Verify actual locations of walls and other construction contiguous with railings by field measurements before fabrication and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

### 3.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver railings and posts wrapped in protective coverings or protective wrapping. Deliver brackets, fittings, sleeves, fasteners, and other miscellaneous materials and products in factory labeled packages. Store and handle in strict compliance with manufacturer's instructions and recommendations. Protect from possible damage.
- B. Sequence deliveries to avoid delays but minimize on-site storage.

### 3.6 COORDINATION AND SCHEDULING

- A. Coordinate installation of anchorages for railings. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.
- B. Schedule installation so wall attachments are made only to completed walls. Do not support railings temporarily by any means that do not suit structural performance requirements.

### 3.7 EXAMINATION

- A. Measurements: Take field measurements; report variance between Drawings and field dimensions and, if necessary, incorporate field measurements with Shop Drawings.
- B. Examine areas and conditions, with Installer present, for compliance with requirements for correct and level finished grade, mounting surfaces, installation tolerances, and other conditions affecting performance.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.



### 3.8 PREPARATION

- A. Strictly comply with manufacturer's instructions and recommendations, except where more restrictive requirements are specified in this Section.
- B. Installation, General: Provide anchorage devices and fasteners necessary for fastening handrail and railing systems to in-place construction using manufacturer's standard connections. Coordinate and furnish anchorages, templates, setting drawings, instructions and recommendations for installation of items embedded in concrete or masonry construction.
- C. Corrosion Protection: Thoroughly separate dissimilar materials from each other using approved protective barrier coating, membrane, or other acceptable method. Do not provide barrier coat on surfaces which are to be exposed to view or on surfaces which will require a sealant at joints so as not to interfere with adhesion of sealants.

### 3.9 INSTALLATION, GENERAL

- A. Do not weld, cut, or abrade surfaces of railing components that have been coated or finished after fabrication and that are intended for field connection by mechanical or other means without further cutting or fitting.

### 3.10 RAILING CONNECTIONS

- A. Exposed Connections: Fit exposed connections together to form tight, hairline joints
- B. Welded Connections (Field Connections): Comply with AWS D1.6 for welding procedure specifications, tolerances, appearance, and quality of welds and for methods used in correcting welding work.
  - 1. Comply with AISC's "Code of Standard Practice for Steel Buildings and Bridges" and "Specification for Structural Steel Buildings" for bearing, adequacy of temporary connections, and alignment on surfaces adjacent to field welds. Contractor must remove all weld slag using pick and brush to expose bright steel for self-verification of workmanship by the contractor and for Quality Assurance access by testing agency. This must be done on a daily basis as welding proceeds.
  - 2. Remove backing bars or runoff tabs, back gouge, and grind steel smooth.
  - 3. Fill weld access holes and grind smooth.
  - 4. Verify that weld sizes, fabrication sequence, and equipment used for architecturally exposed structural steel will limit distortions to allowable tolerances. Prevent weld show-through on exposed steel surfaces.
    - a. Grind butt welds flush.
    - b. Grind or fill exposed fillet welds to smooth profile. Dress exposed welds.
- C. Expansion Joints: Install expansion joints at locations indicated but not farther apart than required to accommodate thermal movement. Provide slip-joint internal sleeve extending 2 inches beyond joint on each side, fasten internal sleeve securely to one side, and locate joint within 6 inches of post.



### 3.11 ANCHORING

- A. Adjust railings before anchoring to ensure matching alignment at abutting joints.
- B. Fastening to In-Place Construction: Use anchorage devices and fasteners where necessary for securing railings and for properly transferring loads to in-place construction
- C. Form or drill holes for anchoring plates in concrete as shown on Drawings. Clean holes of loose material, place plates, place railing module, fill holes with epoxy resin, and place anchors in accordance with material manufacturer's written instructions.
- D. Leave anchorage joint exposed with anchoring material flush with adjacent surface.
- E. For spacing of anchor bolts, refer to the Drawings.

### 3.12 ERECTION

- A. Set steel accurately in locations and to elevations indicated and according to AISC's "Code of Standard Practice for Steel Buildings and Bridges" and "Specification for Structural Steel Buildings", as indicated in the Drawings.
  - 1. Erect to the tolerances specified in AISC 303.
- B. Align and adjust various members forming part of complete frame before permanently fastening. Before assembly, clean bearing surfaces and other surfaces that will be in permanent contact with members. Perform necessary adjustments to compensate for discrepancies in elevations and alignment.
  - 1. Level and plumb individual members of structure.
  - 2. Make allowances for difference between temperature at time of erection and mean temperature when structure is completed and in service.
  - 3. Align rails so variations from level for horizontal members and variations from parallel with rake of steps and ramps for sloping members within a tolerance of plus or minus 1/8 inch in 20 feet.
- C. Do not use thermal cutting during erection unless approved by Engineer. Finish thermally cut sections within smoothness limits in AWS D1.6.
- D. Do not enlarge unfair holes in members by burning or using drift pins. Ream holes that must be enlarged to admit bolts.
- E. No trades may field cut or alter structural members without specific approval of the Engineer. Submit dimensioned plan and detail sketch of proposed modification under cover of an RFI or cloud proposed changes on shop drawings
- F. Bolted Base Plate Connections: Clean concrete surfaces of bond-reducing materials and roughen surfaces prior to setting base plates. Clean bottom surface of base and bearing plates.
  - 1. Set base plates for structural members on wedges, shims, or setting nuts as required.

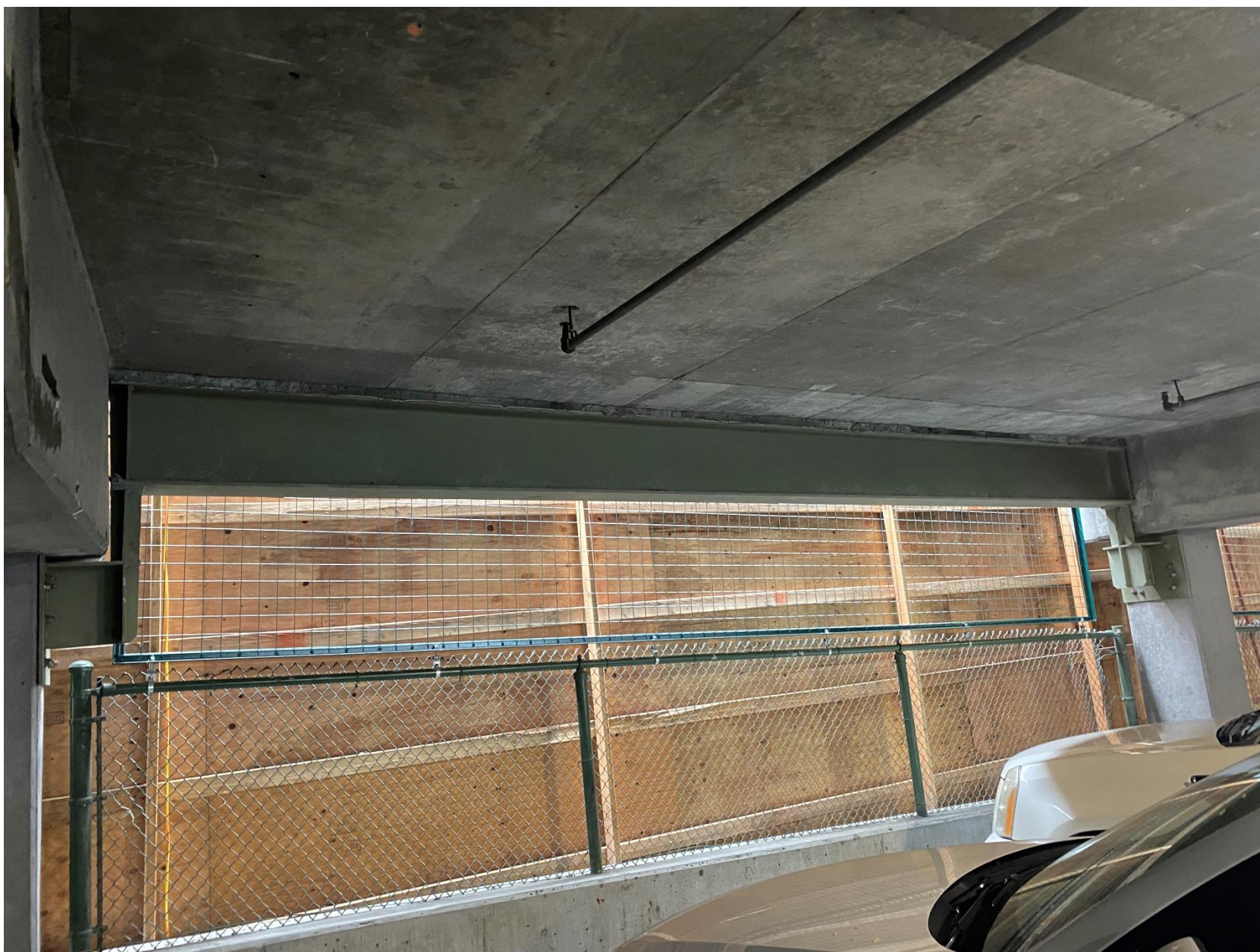
2. Snug-tighten or pretension anchor rods, as indicated in the Drawings, after supported members have been positioned and plumbed. Do not remove wedges or shims but, if protruding, cut off flush with edge of base or bearing plate before packing with grout.
3. Promptly pack grout solidly between bearing surfaces and base and bearing plates so no voids remain. Neatly finish exposed surfaces; protect grout and allow to cure. Comply with manufacturer's written installation instructions for shrinkage-resistant grouts.

3.13 FIELD QUALITY CONTROL

- A. Remove and replace railings where test results indicate that they do not comply with specified requirements unless they can be repaired in a manner satisfactory to Engineer and will comply with specified requirements.
- B. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.

**END OF SECTION**







## Submittal Transmittal & Response

Shaded areas are for internal use only

Submittal Number: **0296**

Date: **03/13/2023**

(**Contractor:** Give each submittal transmittal a consecutive number beginning with "1". Resubmittals will be identified alphabetically, e.g., 1.A ) **Note:** One form shall be filled out for each submittal item. The only exception will be if multiple items from the same supplier are submitted as a package for the same scheduled work.)

**Contract Name:** Waterfront Seattle - Overlook Walk

**PW#** 2018-076AC

**Contractor:** Hoffman Construction Company

The Contractor submits the following noted attachments to Engineer for review and response:

Sub item #	Bid Item # (or Spec Sec #, if no bid #)	CSI#	DESCRIPTION	Response
1		099000	Exterior and Interior Painting Product Submittal	MC
2		099710.23	Exterior Steel Coatings	
3				
4				
5				
6				

Submitted by:

☐ Resubmittal ☐ Supplemental Submittal

**Rodrigo Valdivia**

**Project Engineer**

**206-888-3695**

Printed Name

Title

Phone #

The Engineer has reviewed the above noted documents and responded as noted above, under "Response".

**Key:** **NE** = NO EXCEPTIONS TAKEN  
**MC** = MAKE CORRECTIONS NOTED: No resubmittal required, but corrections noted are required  
**SI** = SUBMIT SPECIFIED ITEM: Resubmittal required – rejected, see comments below  
**RR** = REVISE AND RESUBMIT: Resubmittal required – rejected, see comments below  
**RJ** = REJECTED – see comments below

**Note:** Review is only for conformance with the general design concept of the Project and does not extend to consideration of structural integrity, safety, detailed compliance with Contract requirements and any other obligation of the Contractor. Any action shown is subject to the requirements of the construction Contract. Contractor is responsible for confirming and correlating all dimensions; fabricating and construction techniques; coordinating its work with that of all other trades; and the satisfactory performance of its entire work in strict accordance with the construction Contract. The review is undertaken solely to satisfy Engineer's obligations and does not relieve Contractor from its obligation fully to perform all Contract requirements, nor shall such review give rise to any right of action or suit in favor of Contractor or third persons, against the Owner. Comments or actions may not be complete, once non-compliance is documented, the review may be discontinued and the submittal rejected.

**Engineer's Comments and Sign-off:**

# (key to above)	Comment
1	See attached comments.

Malika Kirkling	Malika Kirkling, MHP	4/10/23
Signature	Printed Name & Title	Date

☐ See Attached Engineer's Comments ☐ See Mark-Up of Submittal Documents ☐ See Other Attachments



**COMMENTS:**

- The submittal includes content from Division 09 97 10.23 Exterior Steel Coatings.
- Note that the Sprinkler Piping, where occurs at the Canopy, has been removed from the project by the Client.
- Confirm that list of areas where paint is applied is inclusive of all areas where paint is to be applied per drawings and specifications.





<b>Contract Name:</b>	Waterfront Seattle - Overlook Walk	<b>PW:</b>	2018-076AC
<b>Contractor:</b>	Hoffman Construction Company	<b>Fed Aid #</b>	N/A
<b>Subcontractor:</b>	Northwest Complete Contracting	<b>Date:</b>	3/13/2023

[illegible]

1. Source Approved: Acceptance based upon 'Satisfactory' test report for samples of materials to be incorporated into project.
2. Source Approved: Submit Manufacturer Certificate of Compliance for 'Approval' prior to use of material.
3. Source Approved: Submit millcerts prior to use of material.
4. Source Approved: Submit catalog cuts and/or shop drawings for 'Approval' prior to use or fabrication of material.
5. Source Approved: Only stamped Mat'l's Lab Inspected' or 'WSDOT Inspected' material shall be used.
6. Source Approved: Request supplier to provide 'Mat'l's Lab' or 'WSDOT' Pipe Acceptance Report (PAR) with pipe upon delivery.
7. Source Approved: Submit mix design for 'Approval' prior to incorporation of material into project.
8. Approval Withheld: Submit samples for preliminary evaluation.
9. Approval Withheld: Submit brand name, name of manufacturer, treating plant, or WSDOT Pit number.
10. Approval Withheld: Submit catalog cuts and/or shop drawings for approval.
11. Approval Withheld: Submit bid item number.
12. Approval Withheld:
13. Conditionally Approved:

Materials Engineer/SDOT Design





The City of Seattle

## Pike Place Market Historical Commission

Mailing Address: PO Box 94649, Seattle WA 98124-4649

Street Address: 600 4th Avenue, 4th Floor

### CERTIFICATE OF APPROVAL FOR DESIGN

Date: May 26, 2022

MHC 38/22

Applicant: Jessica Murphy

Business: Seattle Office of the Waterfront and Civic Projects

Address: 1901 Western Ave Seattle, WA 98101

1520 Alaskan Way Seattle, WA 98101

Building: Marketfront and PC1-S Parking Garage Buildings

At its meeting of May 11, 2022, the Pike Place Market Historical Commission approved the following:

Demolition of existing viewing area at Marketfront Plaza, demolition and reconstruction work at PC1-S Parking Garage upper level, installation of transom panels on western face of PC-1-S Parkng Garage, all work according to attached plans.

The Certificate is issued with the understanding that the applicant will obtain all other permits and approvals that may be required.

The Certificate is issued with the understanding that the applicant will obtain all other permits and approvals that may be required.

**Work must occur exactly according to approved plans and specifications. Any changes other than those specified above will require the review and approval of the Commission prior to implementation. Any work done in non-compliance with this permit will be reported directly to the Compliance Division of the Seattle Department of Construction**



**and Inspection.** The Certificate is issued with the understanding that the applicant will obtain all other permits and approvals that may be required.

Work associated with this Certificate of Approval must commence within eighteen months from the date of the issuance of this Certificate unless the Pike Place Market Historical Commission determines that extenuating circumstances justify extension of the expiration date.

Lisa Martin, Commission Chairperson

By:

A handwritten signature in dark ink, appearing to read 'Minh Chau Le', written in a cursive style.

Minh Chau Le, Commission Coordinator  
Pike Place Market Historical Commission



## Description of Proposed Work

The work within the Pike Place Market Historic District includes three (3) work areas. One is located at the southwest corner of the top level of the Pike Place Market parking garage. This area is shown on Figure 3 with the title "Market Garage". At this location, a portion of the existing parapet wall on the west side of the parking garage will be removed after installation of a steel beam per Construction Plan Sheet ST601. The wall will be repaired with cast in place (CIP) concrete. A rendering of the condition after completion of the proposed work is shown on Figure 2. Please note the existing chain link fence on top of the parapet wall is not shown in Figure 2, however the chain link fence will remain on top of the parapet wall after CIP concrete repair work is complete. Also note the coated, stainless-steel expansion joint is not shown on Figure 2; this joint will be placed between the Overlook Walk and the top level of the parking garage to bridge the gap for pedestrians. Additionally, vertical joint plates are not shown on Figure 2. Vertical joint plates are needed to help prevent access to the area between the parking garage and the Overlook Walk.

The second work area is at the existing concrete landing overhanging the public right-of-way immediately north of two large, orange-colored silos (fluid coolers) that are west of The Market Commons. This area is shown on Figure 3 with the title "Market Front". At this location, the existing landing overhanging the right-of-way will be removed as shown on Figure 1. Existing guardrails will be salvaged and provided to the owner. Illumination devices and associated electrical infrastructure attached to the guard rail will be removed and provided to the owner. An expansion joint and vertical joint plates will be placed between the Overlook Walk bridge structure and the top level of the Market Front.

The third work area is the western face of the Pike Place Market Parking Garage (PC-1 south). The Overlook Walk project proposes to place transom panels as shown on Figure 4 and Construction Plan Sheets for purposes of fall protection.

## Statement of Reason for Demolition

Demolition of the existing viewing area overhanging the public right-of-way must occur to make way for the future Overlook Walk, a pedestrian bridge connecting between the Pike Place Market, the Aquarium Ocean Pavilion, and the waterfront.

Partial demolition of the existing parapet wall at the southwest corner of the parking garage must occur to make way for a pedestrian connection to the future Overlook Walk and pedestrian plaza.



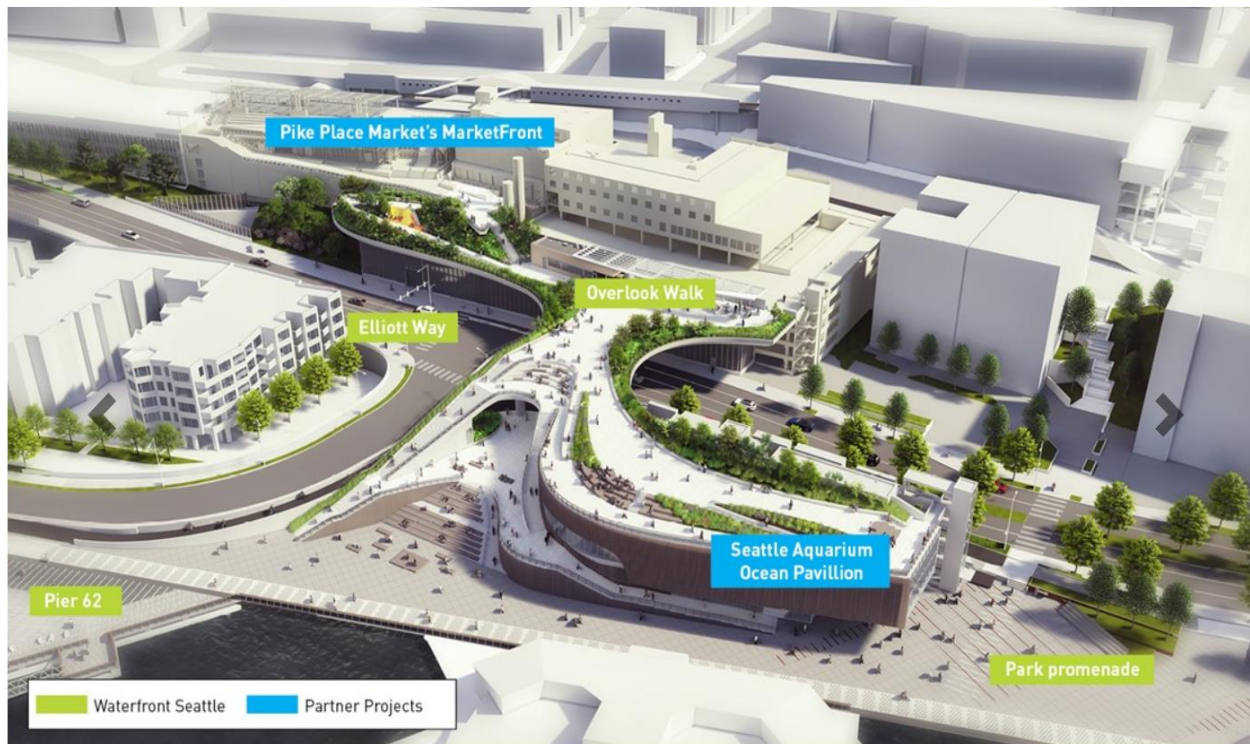
## Description of Replacement Structure or Object

The structure replacing the existing viewing area overhanging the public right-of-way is the Overlook Walk, an elevated public park and connection between the waterfront to Seattle's urban core. People can walk on the elevated pathway from Pike Place Market to the waterfront without ever crossing the new Alaskan Way. Overlook Walk will have expansive views of Elliott Bay, informal play areas, new public plazas and landscaping.

Overlook Walk is at the center of improvements from [Pier 62](#) up to Pike Place Market and east along to Seattle's urban core, including [Pike and Pine streets](#). Overlook Walk will also be integrated with Seattle Aquarium's proposed Ocean Pavilion expansion.

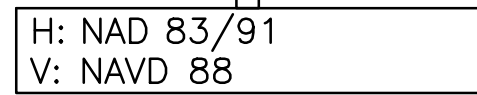
See rendering and link below.

[Waterfront Seattle](#)





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Mar-30-21 11:49am



OVERLOOK WALK  
VICINITY & LOCATION MAP & DATUM  
GS01

# WATERFRONT SEATTLE OVERLOOK WALK IMPROVEMENTS

JOB NO.	PC	TS5766A
	R/W	
	CO	
VAULT PLAN NO. 790-621		
SHEET 01 OF 533		



APPROVED FOR ADVERTISING  
LIZ ALZEER  
DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES  
SEATTLE, WASHINGTON . . . . . 20

BY: . . . . .  
PURCHASING AND CONTRACTING DIRECTOR

INITIALS AND DATE			INITIALS AND DATE	
DESIGNED	ADB	4/5/2021	REVIEWED:	
CHECKED	ADB	4/5/2021	DES.	CONST.
			SDOT	PROJ. MGR.
DRAWN			RECEIVED	
CHECKED	TC	4/5/2021		
	ADB	4/5/2021	REVISED AS BUILT	
ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR IN SECTION 0-02.3 OF THE PROJECT MANUAL.				



**Seattle**  
**Department of**  
**Transportation**

PROJECT NO. 125475 PW NO. 2020-003  
PROJECT ID: TC367330



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# Figure 1



## OVERLOOK WALK

PROPOSED ACCESS TO MARKET GARAGE ELEVATOR

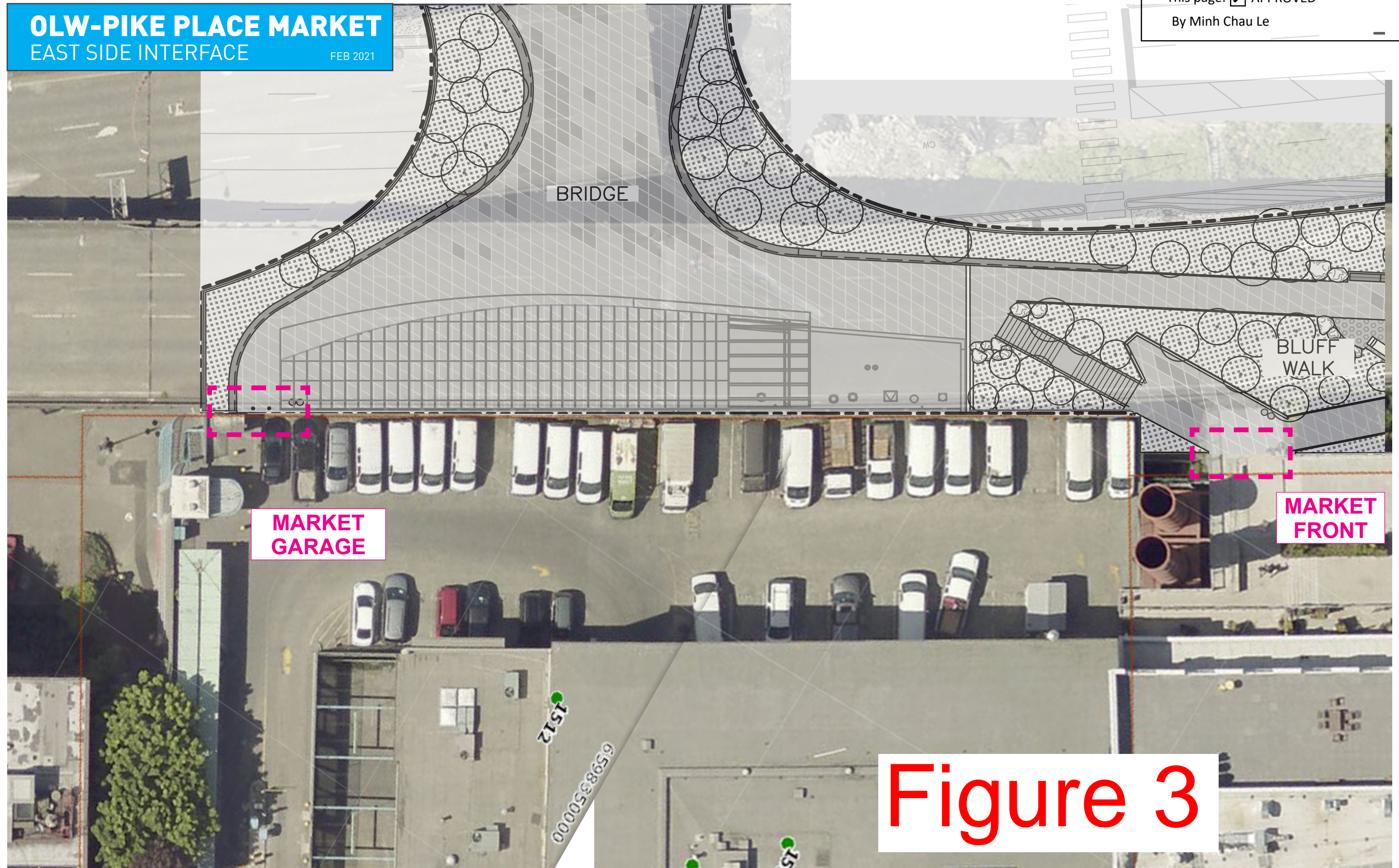


\*Schematic - see Construction Plan Sheets for details.



**OLW-PIKE PLACE MARKET**  
EAST SIDE INTERFACE

FEB 2021







# Existing Condition Market Garage





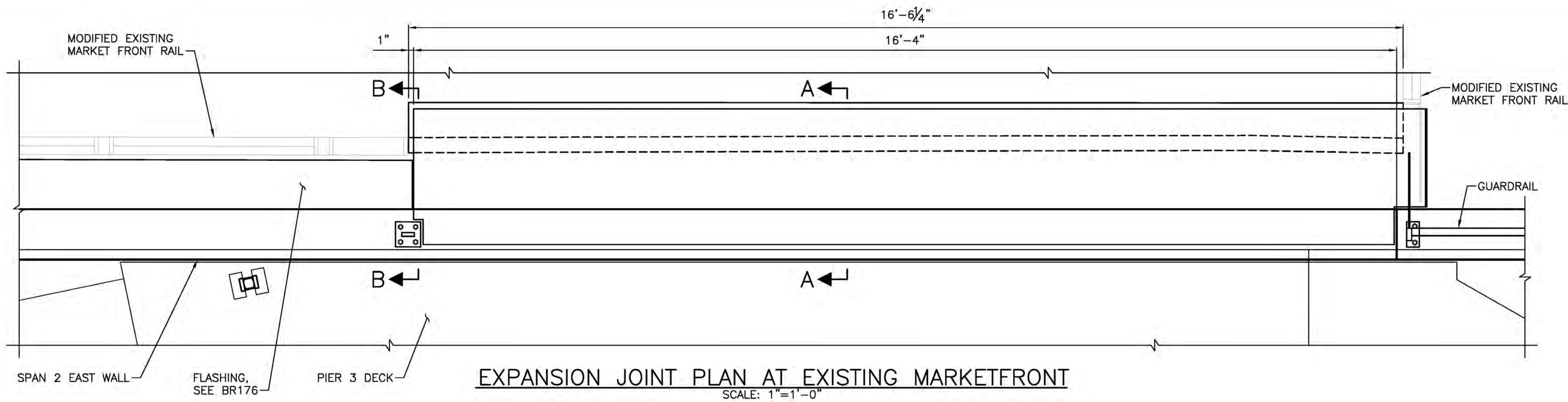
**Existing Conditions  
Market Front**



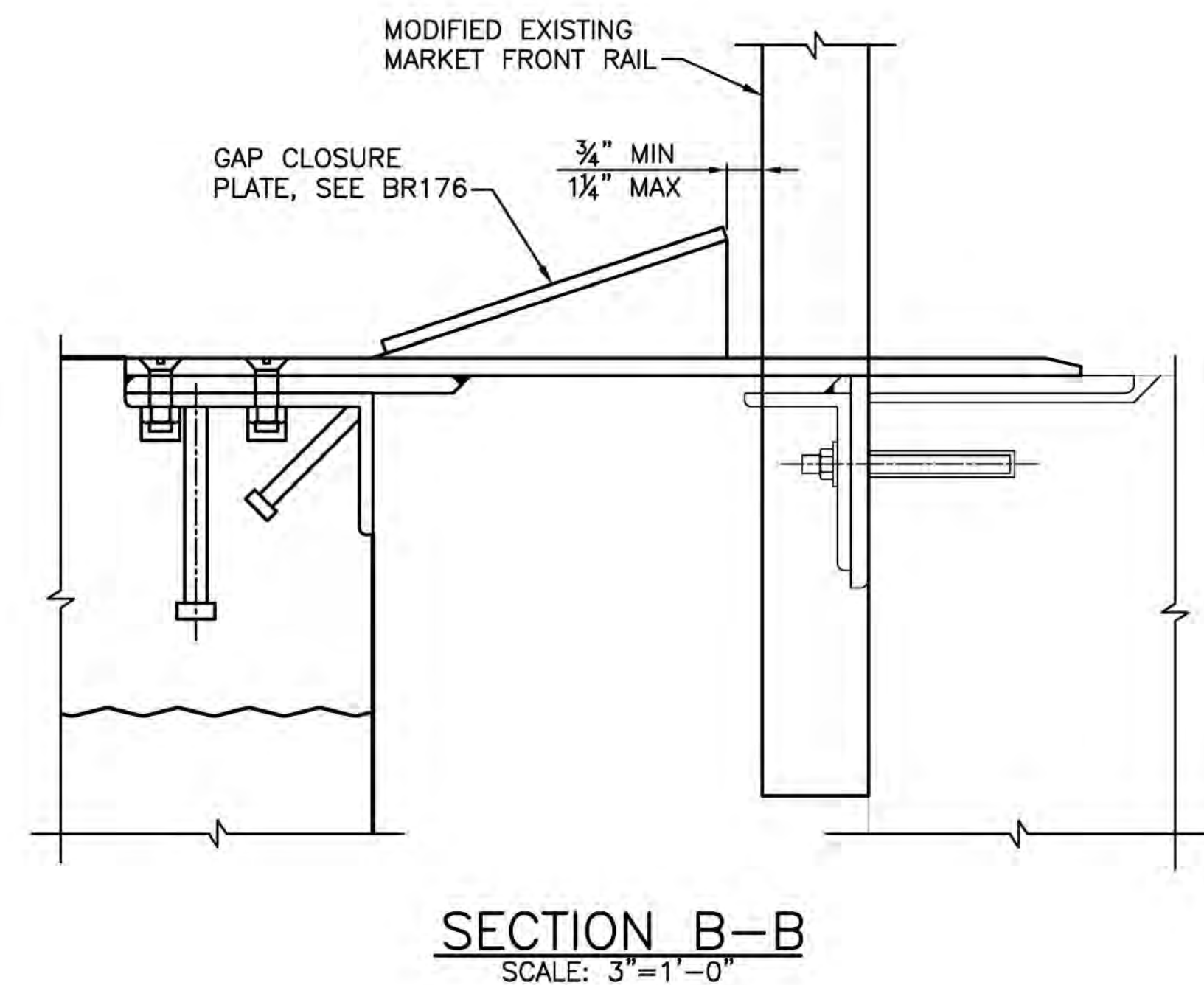
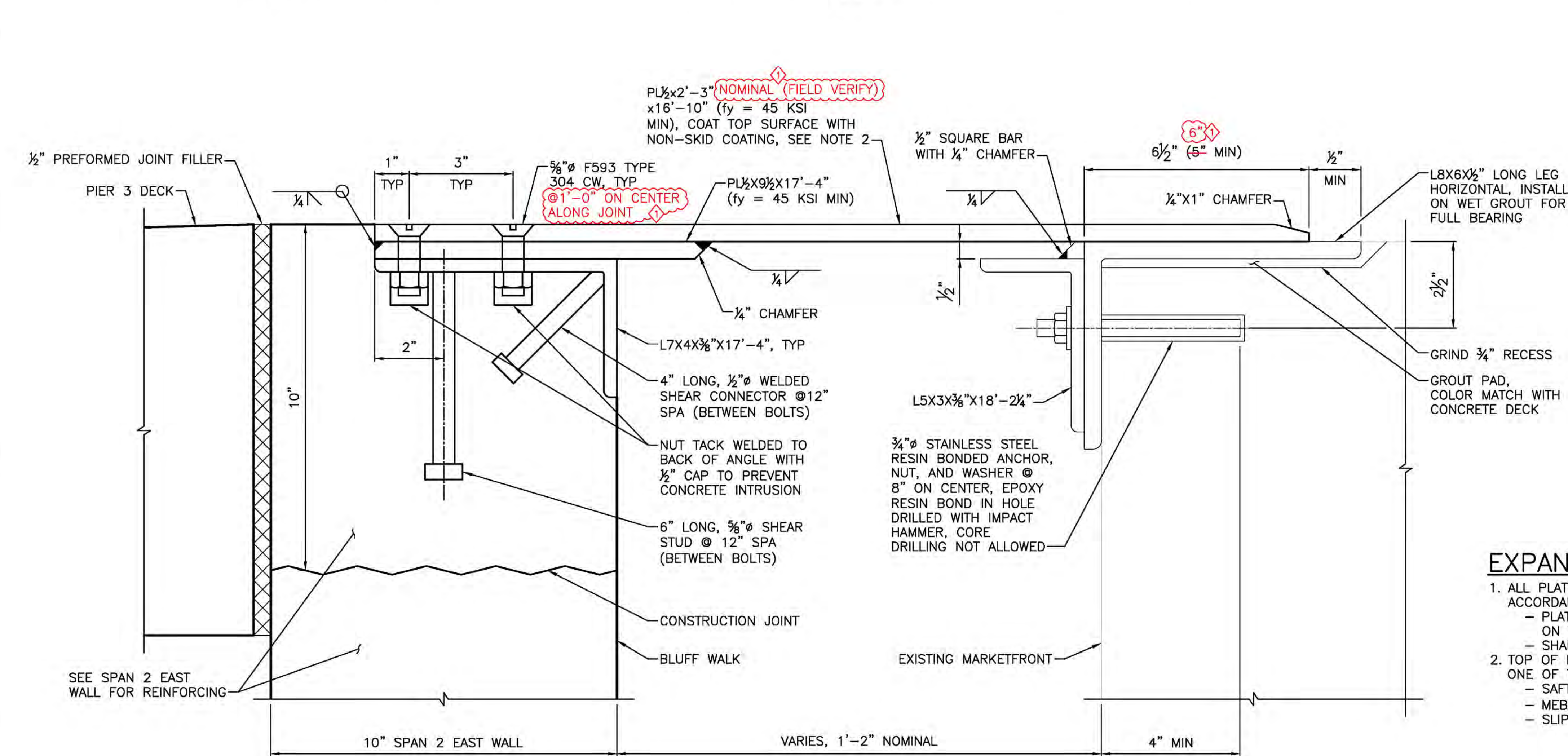


Existing  
Conditions  
Market Front





**SPECIAL DISTRICT AND LANDMARK REVIEW**  
 This page: ☒ APPROVED  
 By Minh Chau Le



### EXPANSION JOINT NOTES:

- ALL PLATES, SHAPES, BARS, AND WELDED SHEAR CONNECTORS SHALL BE STAINLESS STEEL IN ACCORDANCE WITH ASTM A276 OR ASTM A666.
  - PLATES SHALL BE TYPE 316L OR 316N WITH A MINIMUM YIELD STRENGTH AS INDICATED ON THE DRAWINGS OR 25 KSI WHERE REQUIRED STRENGTH IS NOT INDICATED.
  - SHAPES AND BARS SHALL BE TYPE 316L WITH A MINIMUM YIELD STRENGTH OF 25 KSI.
- TOP OF EXPANSION JOINT PLATE SHALL BE SLIP RESISTANT HAVING A NON-SKID COATING OF ONE OF THE FOLLOWING PRODUCTS:
  - SAFTRAX TH604
  - MEBAC #3, STAINLESS STEEL COATING
  - SLIPNOT, GRADE 2, STAINLESS STEEL

**SECTION A-A**  
 SCALE: 6"=1'-0"

BLUFF WALK  
 EXPANSION JOINT DETAILS 1  
 BR175

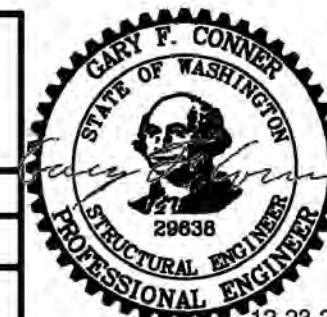
MACC- FINAL PRICING REVISION (REV #5)



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 DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES  
 SEATTLE, WASHINGTON ..... 20 .....

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DESIGNED	GC 4/5/2021	REVIEWED:	DES.
CHECKED	AC 4/5/2021		CONST.
			PROJ. MGR.
DRAWN	CG 4/5/2021	RECEIVED	
CHECKED	AC 4/5/2021	REVISED AS BUILT	

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR IN SECTION 0-02.3 OF THE PROJECT MANUAL.



**Seattle**  
 Department of  
 Transportation  
 ORDINANCE NO. 125475 PW NO. 2020-003  
 SUBPROJECT ID: TC367330  
 SCALE:

**WATERFRONT SEATTLE**  
**OVERLOOK WALK**  
**IMPROVEMENTS**

PC TS5766A  
 R/W  
 CO  
 VAULT PLAN NO.  
 790-621  
 SHEET 225 OF 559

DATE	REVISION	BY	CHK'D	REV'D
12/20/21	1	MARK	MARK	AC

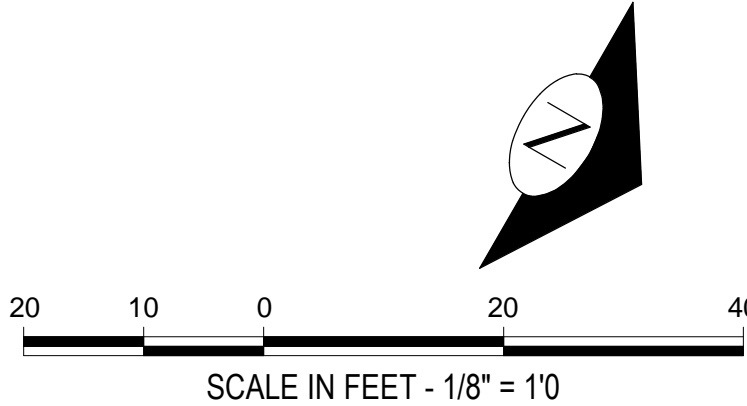
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3X\*



ST00\_ ABBREVIATIONS, DRAWING SYMBOLS, GENERAL NOTES  
ST01\_ LOAD MAPS  
ST1\_ PLANS  
ST3\_ BUILDING SECTIONS AND ELEVATIONS  
ST4\_ TYPICAL DETAILS AND SCHEDULES  
ST5\_ CONCRETE SECTIONS AND DETAILS  
ST6\_ STEEL SECTIONS AND DETAILS

1. REFERENCE FLOOR ELEVATION (BY OTHERS) IS 67'-6".
2. DEFLECTION OF THE BRIDGE SUBSTRUCTURE IS ANTICIPATED DURING CONSTRUCTION. AS SUCH, THE FOLLOWING SEQUENCING REQUIREMENTS MUST BE INCORPORATED INTO THE CONSTRUCTION SEQUENCING PLAN.
  - A. CAFE CURBS SHALL NOT BE CAST UNTIL AFTER BRIDGE SUBSTRUCTURE FORMWORK HAS BEEN REMOVED.
  - B. PRECAST SITE WALL AND TILT-UP WALL ALONG EAST PERIMETER SHALL BE CONSTRUCTED PRIOR TO NORTH AND SOUTH WALLS OF CAFE.
  - C. CAFE FINISH FLOOR SLAB TO BE CAST AS LATE IN CONSTRUCTION SEQUENCE AS POSSIBLE.
3. REMOVE ANY MILL OR FABRICATION MARKS FROM VIEW.
4. ORIENT HSS WELD SEAMS TO THE EAST, CENTERED ON THE GRIDS.

STRUCTURAL PLAN SOUTHEAST  
2 OVERLOOK LEVEL  
ST125

NAME OR INITIALS AND DATE		INITIALS AND DATE	
DESIGNED	KV, LPH, 4/5/2021	REVIEWED:	
CHECKED	LLJ, TRM, 4/5/2021	DES.	CONST.
		SDOT	PROJ. MGR.
DRAWN	CM1, 4/5/2021	RECEIVED	
CHECKED	KV, LLJ, 4/5/2021	REVISED AS BUILT	
ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR IN SECTION 04-2.3 OF THE PROJECT MANUAL.			

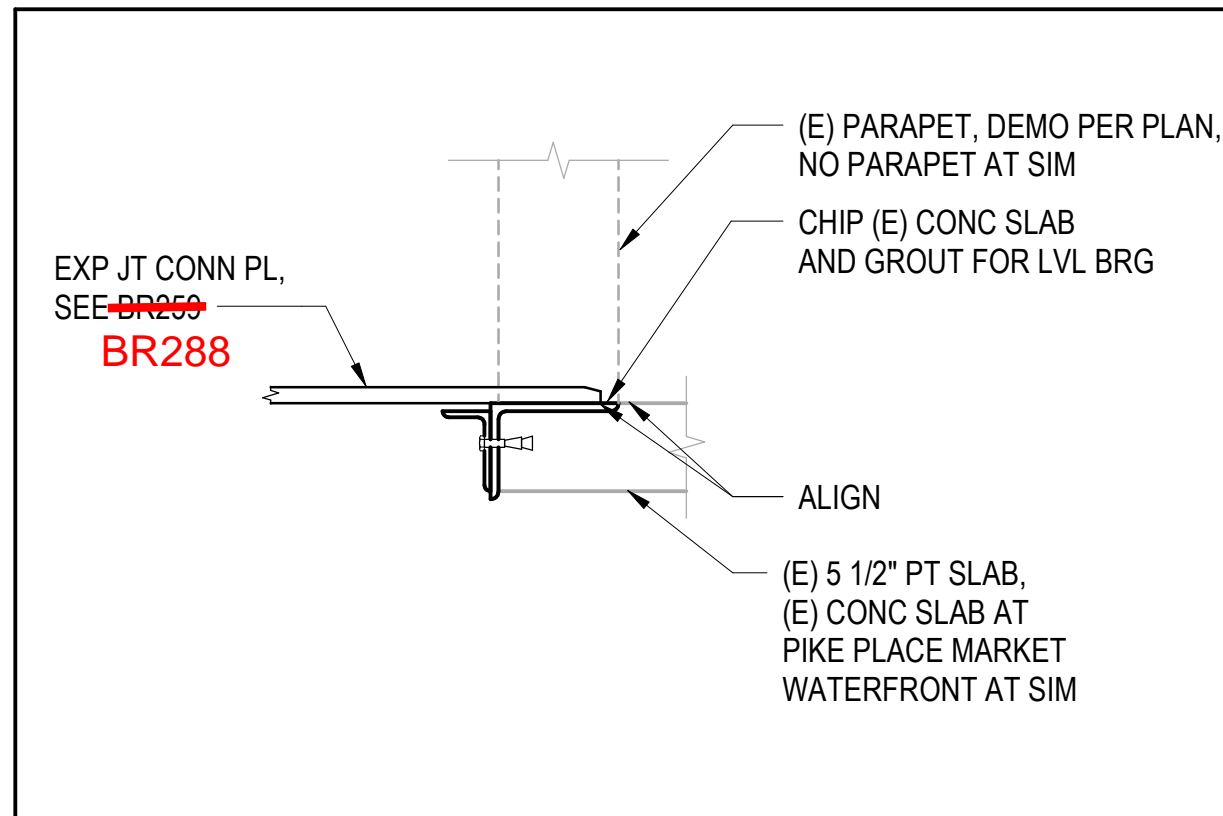


# WATERFRONT SEATTLE OVERLOOK WALK IMPROVEMENTS

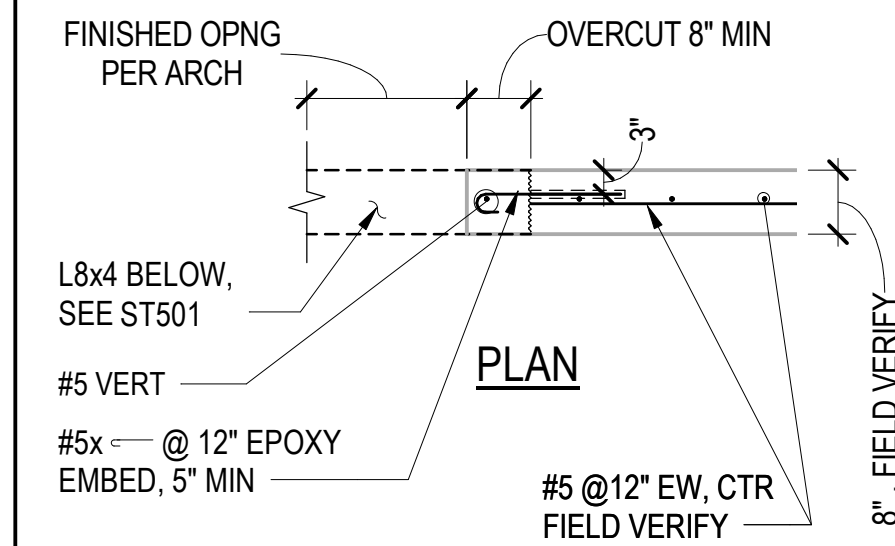
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	R/W	
	CO	
VAULT PLAN NO. 790-621		
SHEET	428	OF 533



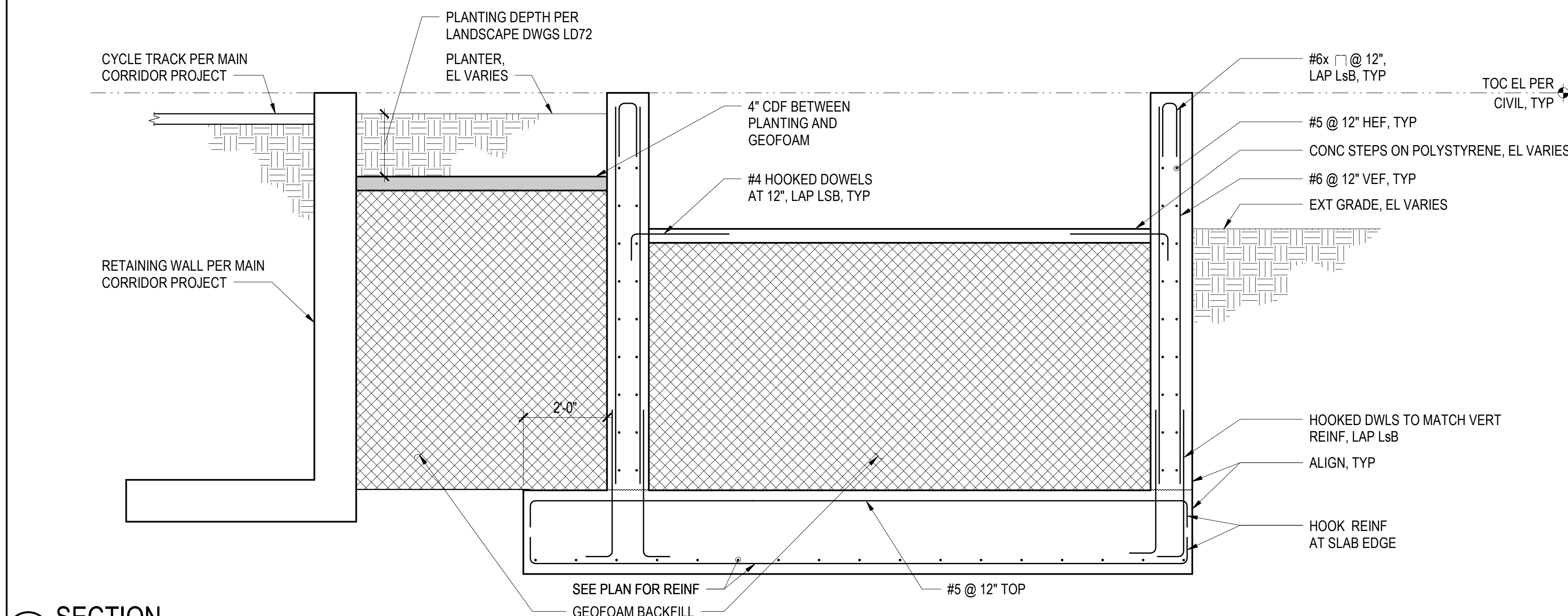
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0000						



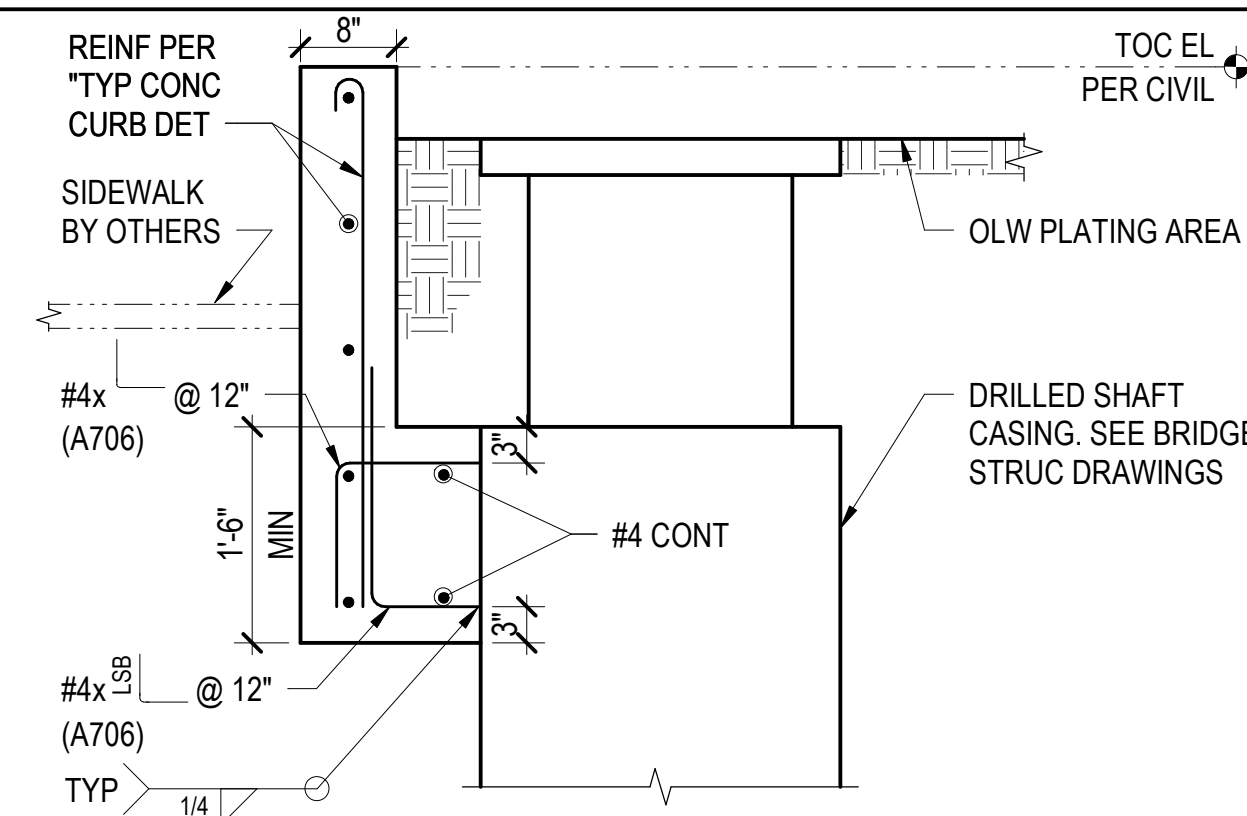
**1** SECTION  
1" = 1'-0"



6 DETAIL  
1/2" = 1'-0"



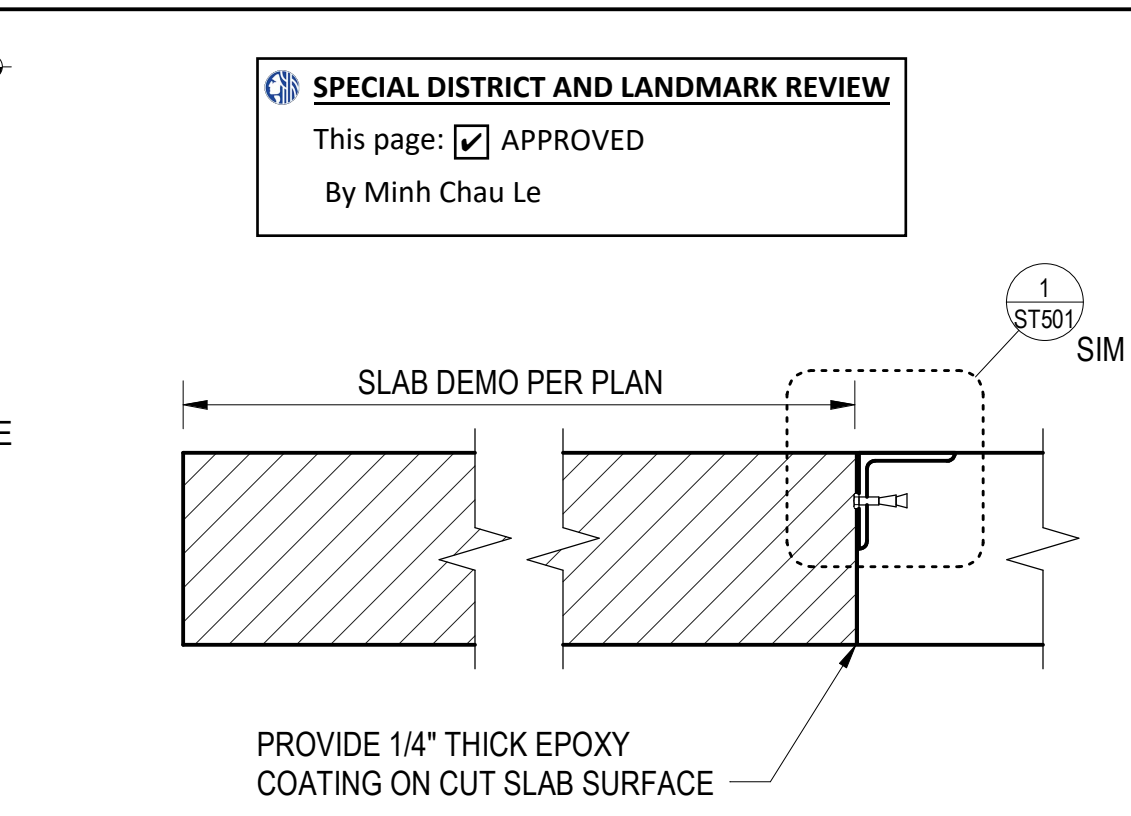
**11 SECTION**  
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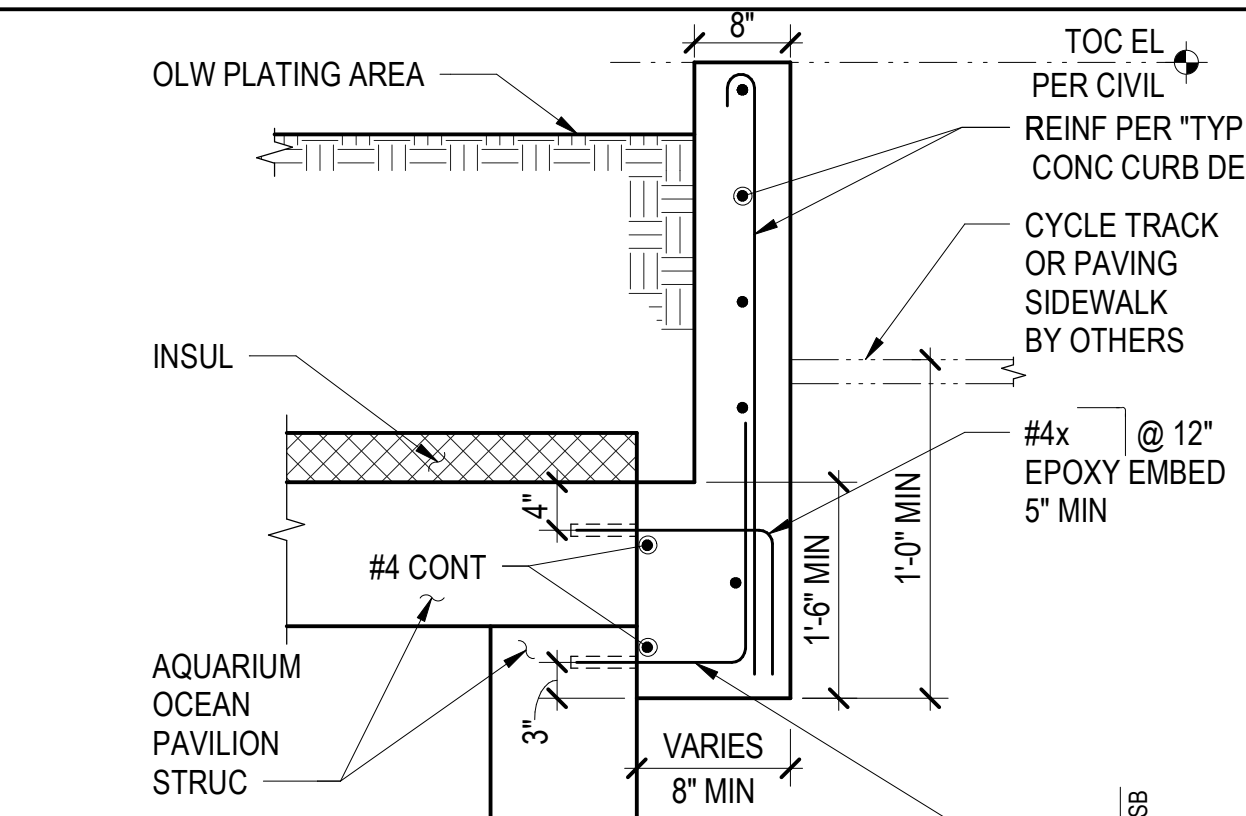
NOTES:

1. SEE 1/LS107 FOR ADDITIONAL INFORMATION

2 SECTION  
3/4" = 1'-0"



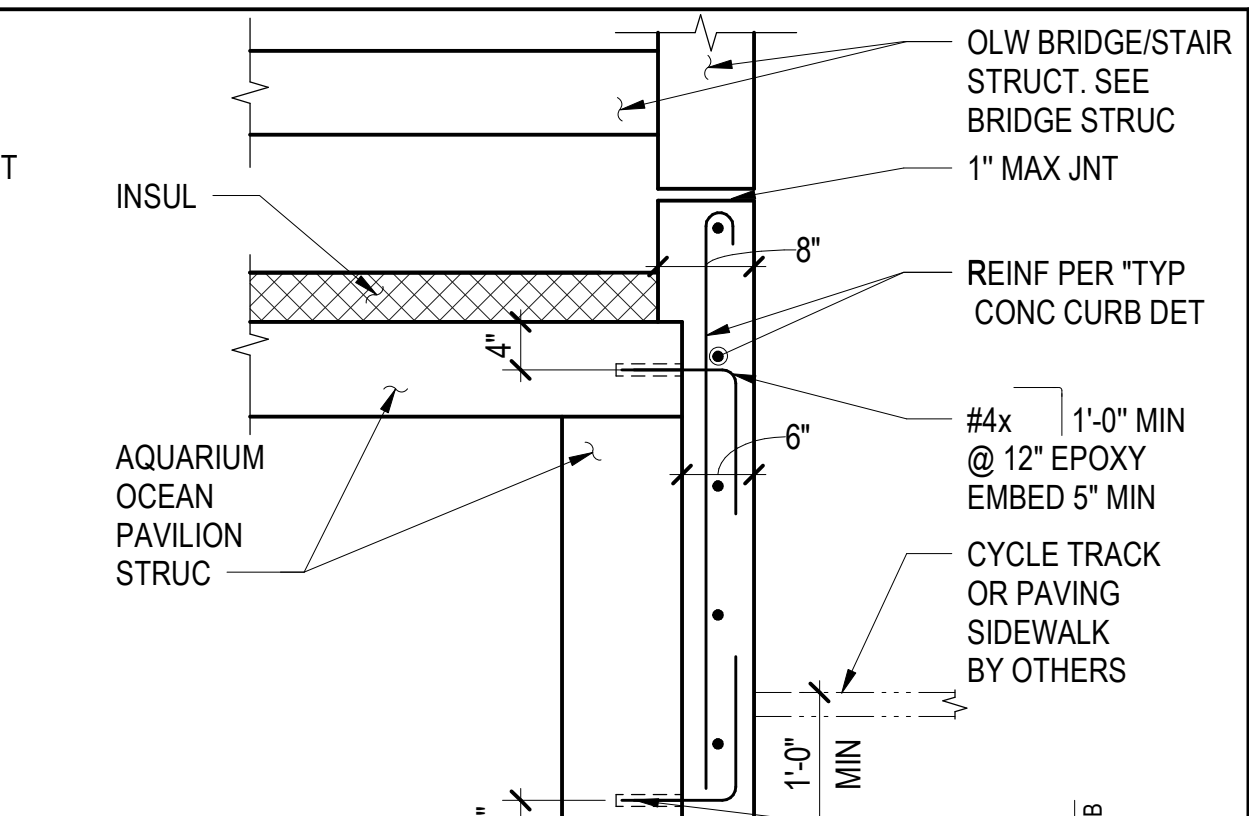
3 SECTION  
1" = 1'-0"



NOTES

1. SEE 2 AND 3 ON LS107 FOR ADDITIONAL INFORMATION

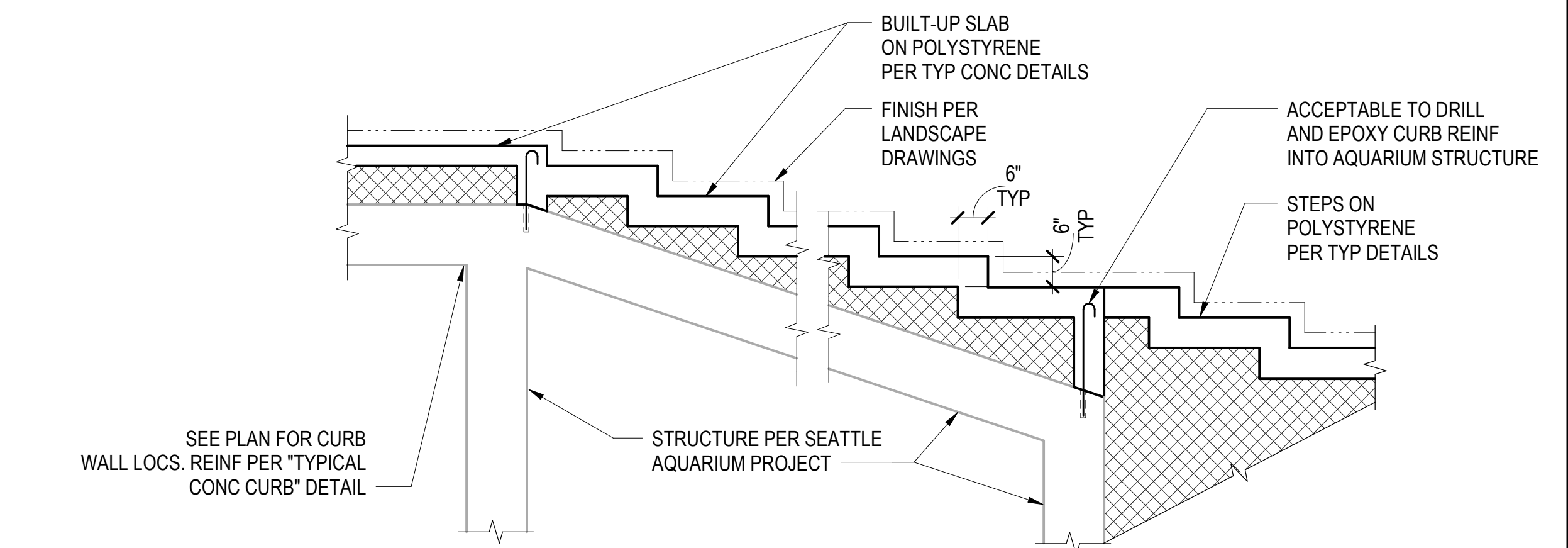
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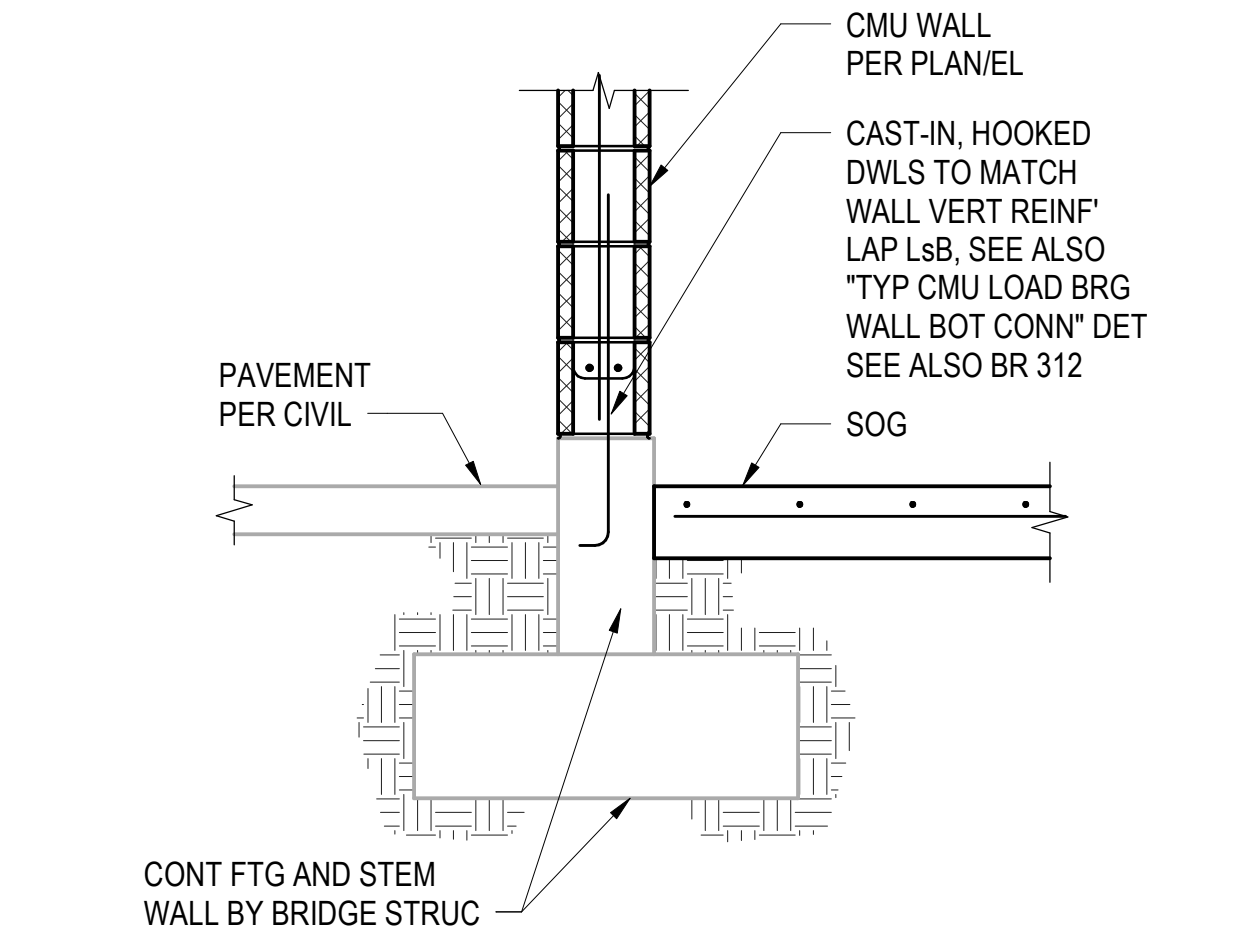
NOTES:

1. SEE 2 AND 3 ON LS 107 FOR ADDITIONAL INFORMATION

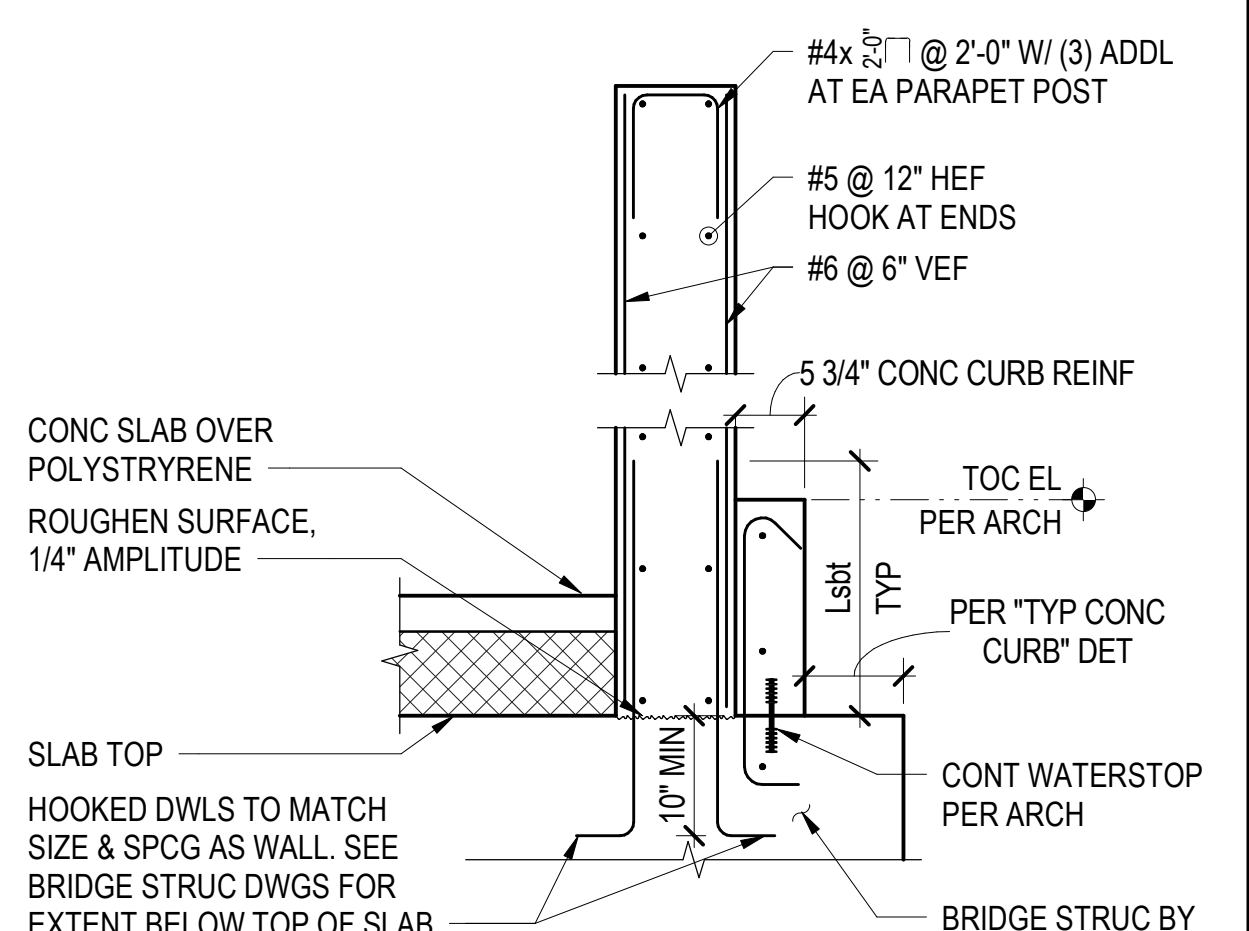
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3/4" = 1'-0"



9 SECTION  
1/2" = 1'-0"



14 SECTION  
3/4" = 1'-0"



15 SECTION  
3/4" = 1'-0"

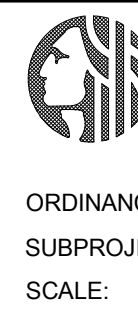
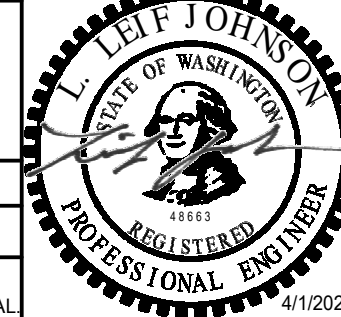
## 100% SUBMITTAL



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SEATTLE, WASHINGTON 20

BY  
CITY PURCHASING & CONSTRATING SERVICES DIRECTOR

NAME OR INITIALS AND DATE		INITIALS AND DATE	
DESIGNED	KV, LPH, 4/5/2021	REVIEWED:	
CHECKED	LLJ, TRM, 4/5/2021	DES.	CONST.
		SDOT	PROJ. MGR.
DRAWN	CMT1, 4/5/2021	RECEIVED	
CHECKED	KV, LLJ, 4/5/2021	REVISED AS BUILT	
ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR IN SECTION 0-0.3 OF THE PROJECT MANUAL			



**Seattle**  
**Department of**  
**Transportation**

E NO. 125475 PW NO. 2018-085

CT ID: TC367330

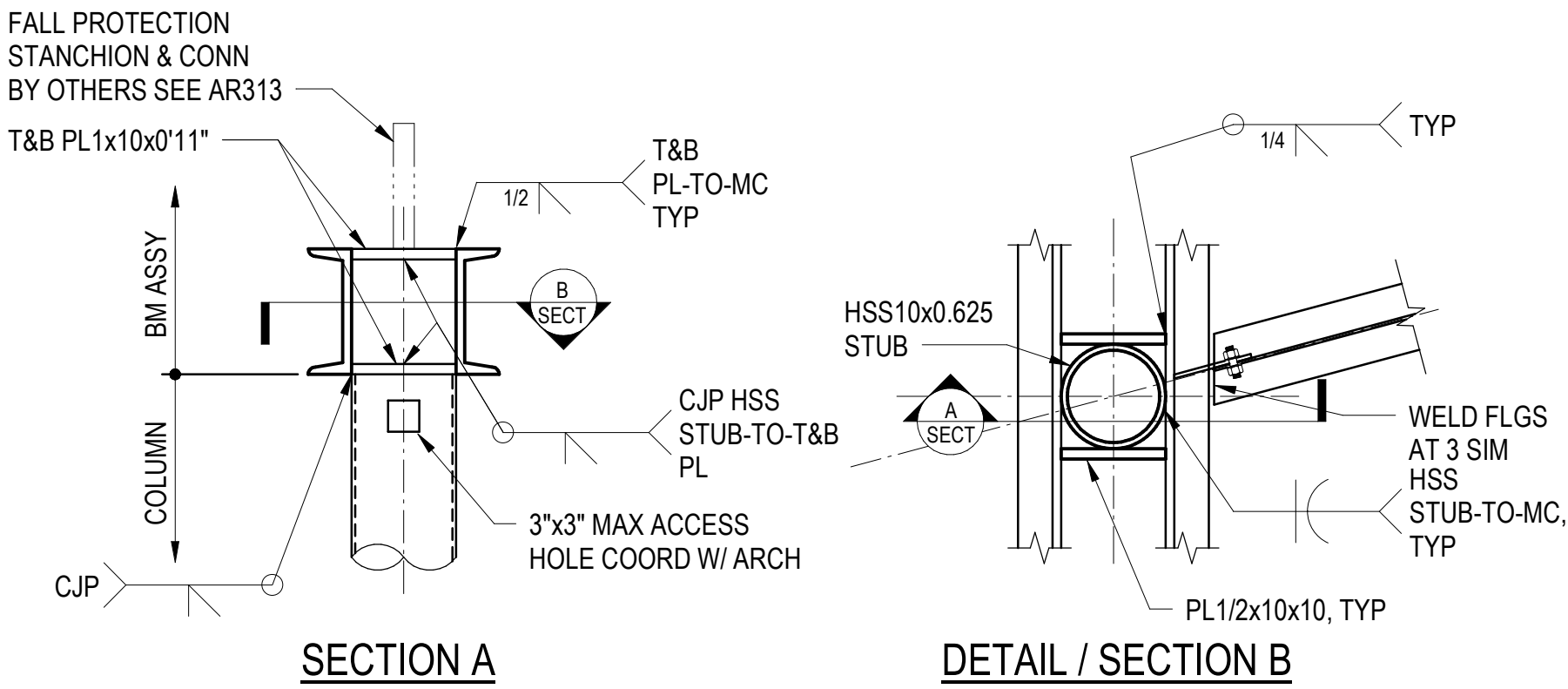
# WATERFRONT SEATTLE OVERLOOK WALK IMPROVEMENTS

JOB NO.	PC	TS5766A
	R/W	
	CO	
VAULT PLAN NO. 790-621		
SHEET 444 OF 533		

CONCRETE SECTIONS  
ST501

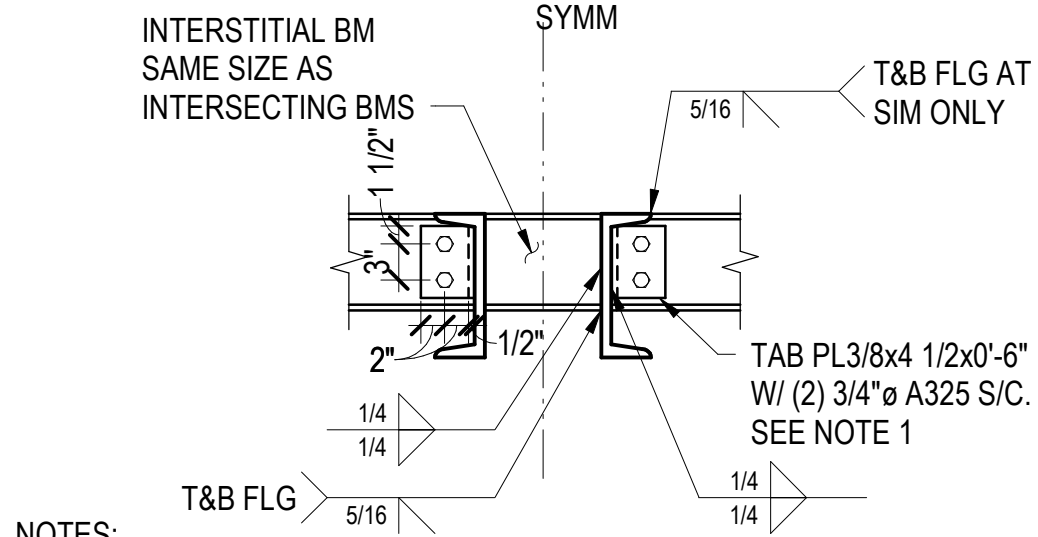


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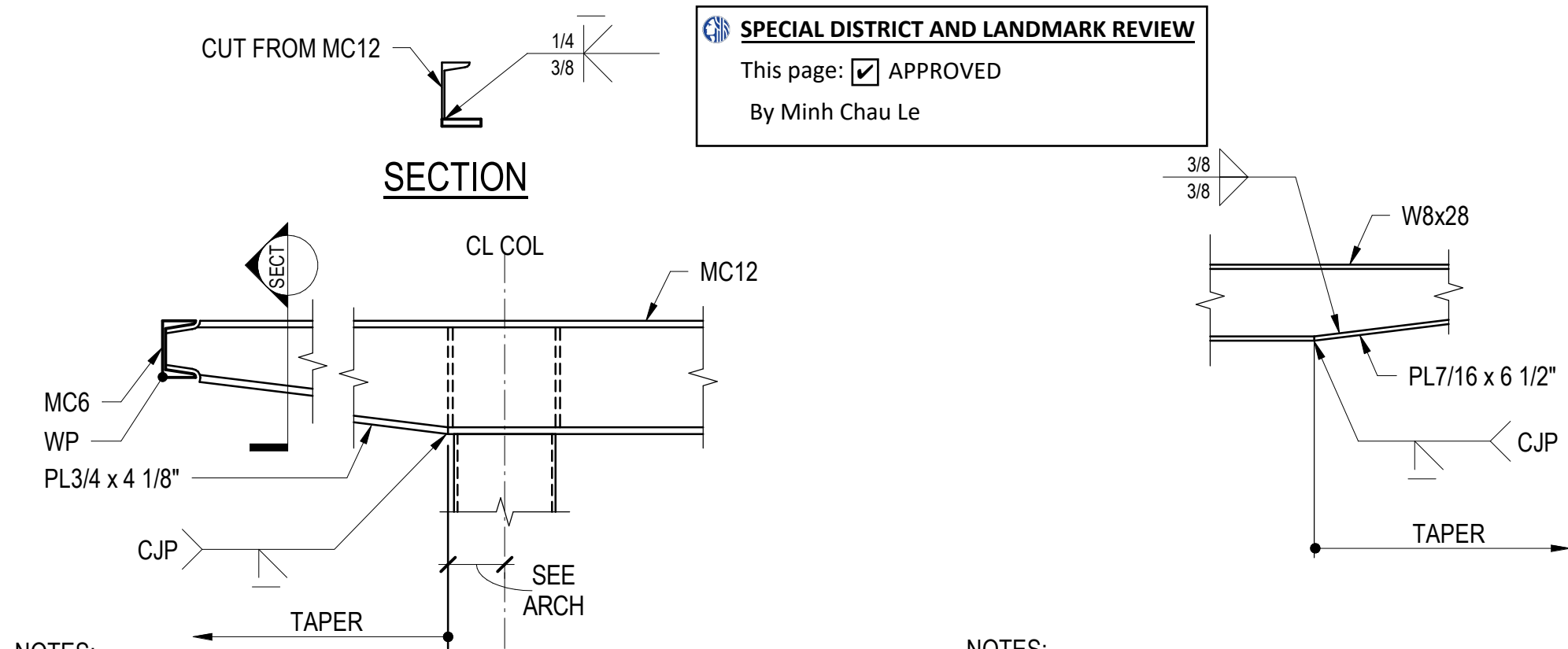
NOTES:

- ALL EXPOSED WELDS TO BE UNIFORM AND SMOOTH. REMOVE WELD SPATTER.



NOTES:

- SEE "TYPICAL SHALLOW BEAM CONNECTION" DETAIL AT W6 BEAM. ORIENT ALL BOLT HEADS ON SAME SIDE AND CONSISTENT FROM ONE CONNECTION TO ANOTHER.
- ALL EXPOSED WELDS TO BE UNIFORM AND SMOOTH. REMOVE WELD SPATTER.



NOTES:

- ALL EXPOSED WELDS TO BE UNIFORM AND SMOOTH. REMOVE WELD SPATTER.

NOTES:

- ALL EXPOSED WELDS TO BE UNIFORM AND SMOOTH. REMOVE WELD SPATTER.

## SECTION

3/4" = 1'-0"

## SECTION

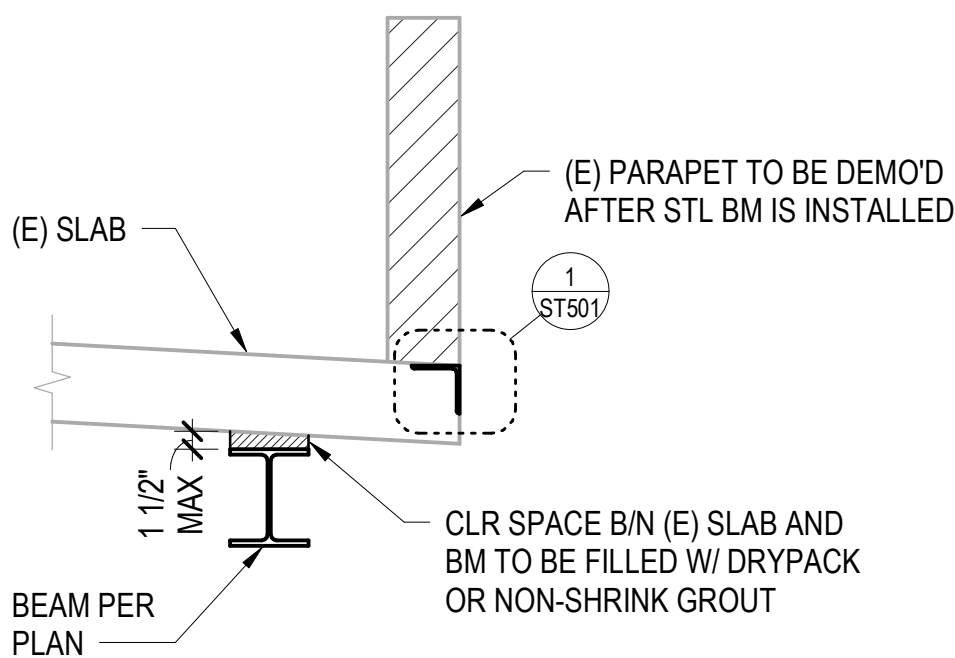
3/4" = 1'-0"

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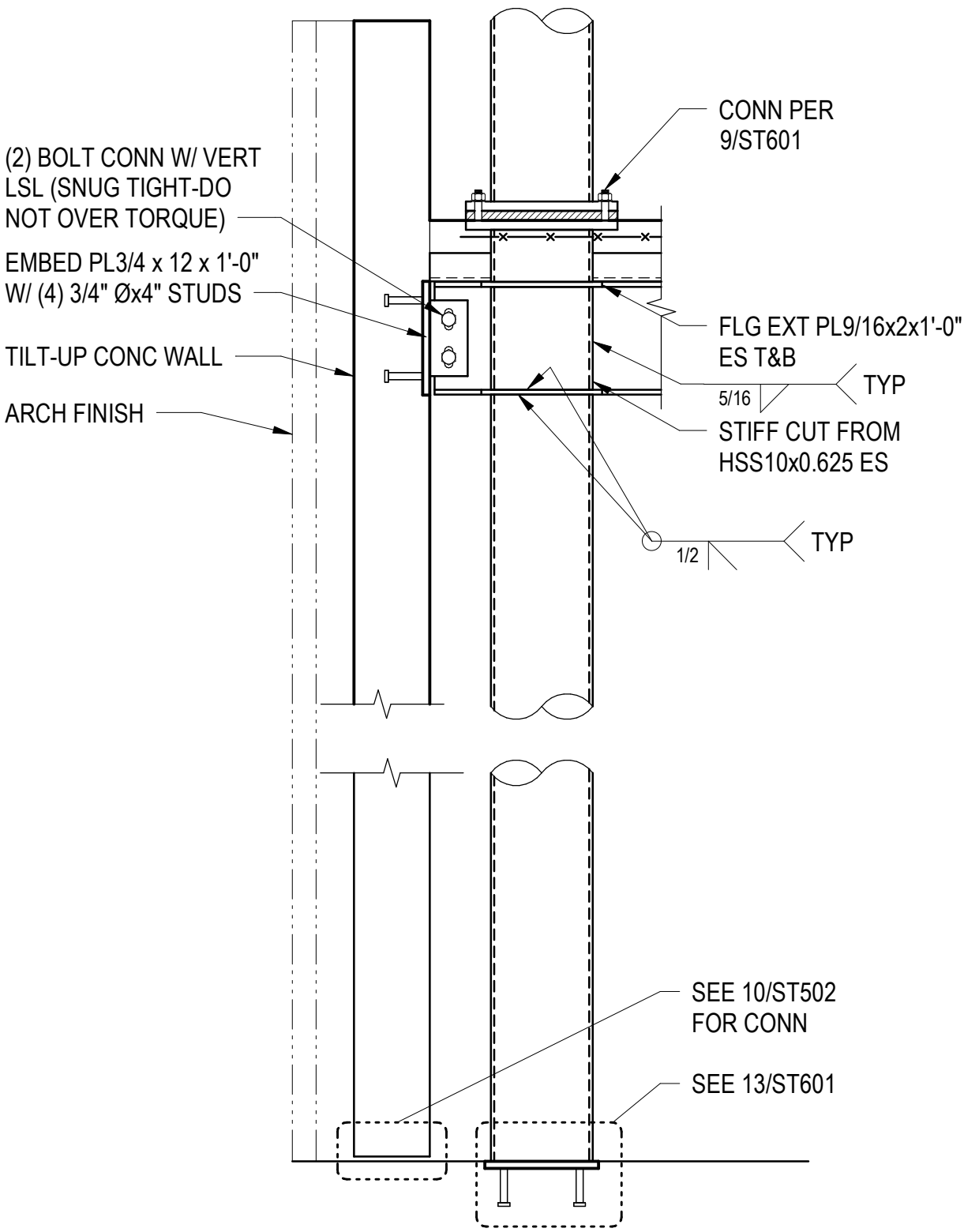
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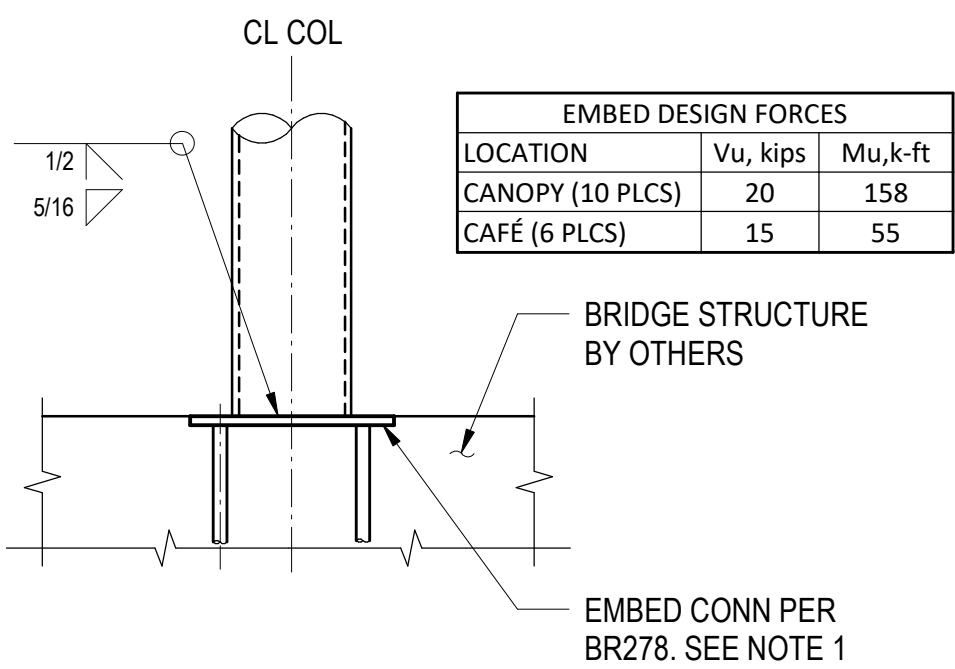
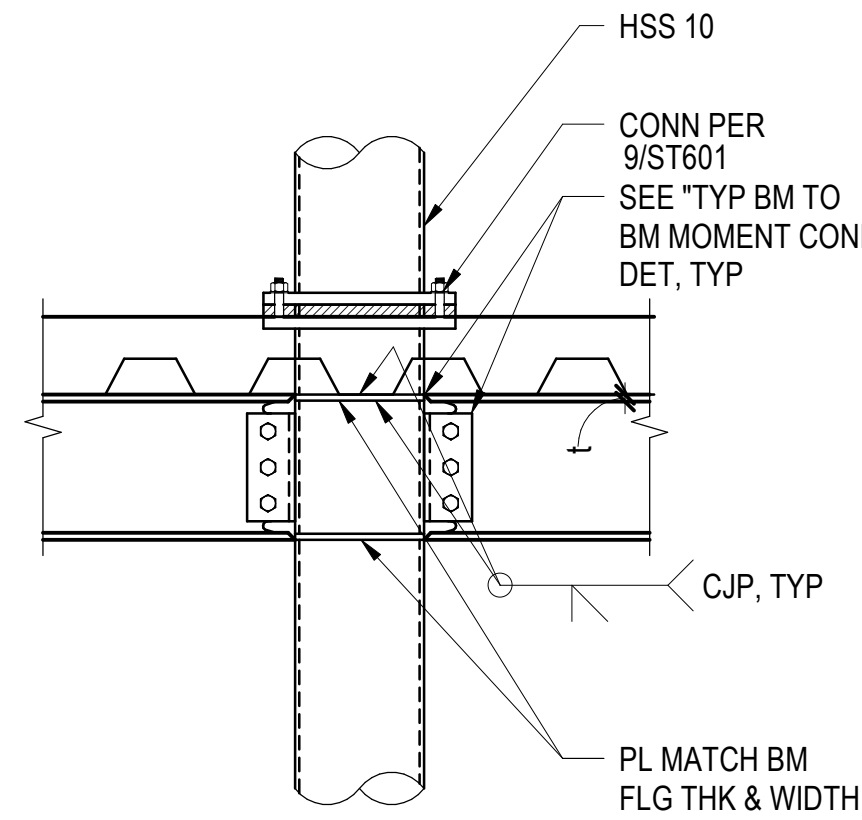
## SECTION

3/4" = 1'-0"



## MOMENT CONNECTION AT HSS10 COL

3/4" = 1'-0"



NOTES:

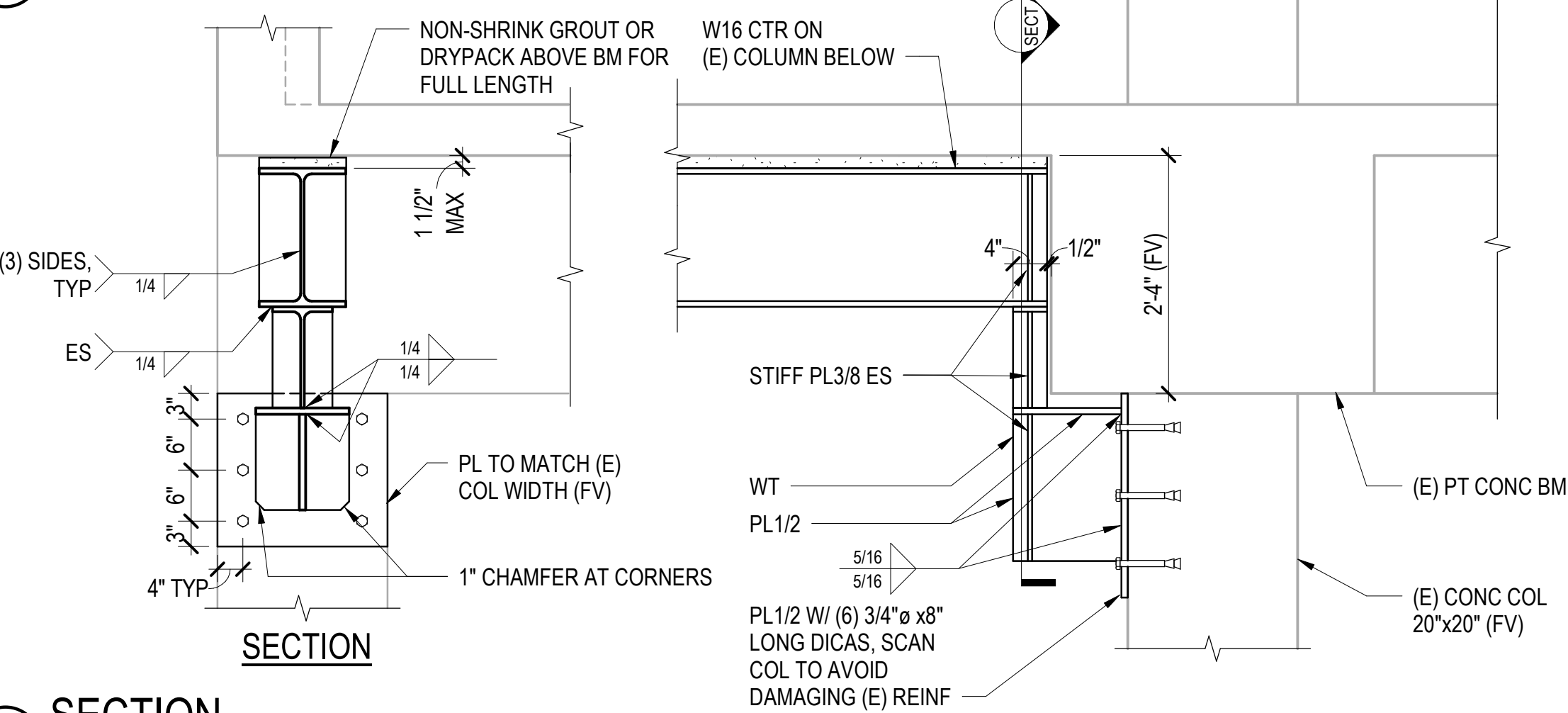
- SEE "EMBED DESIGN FORCES" TABLE FOR REACTIONS. FORCES SHOULD BE APPLIED INDEPENDENTLY IN BOTH PRIMARY DIRECTIONS.

## CANOPY COLUMN CONNECTION TO BRIDGE

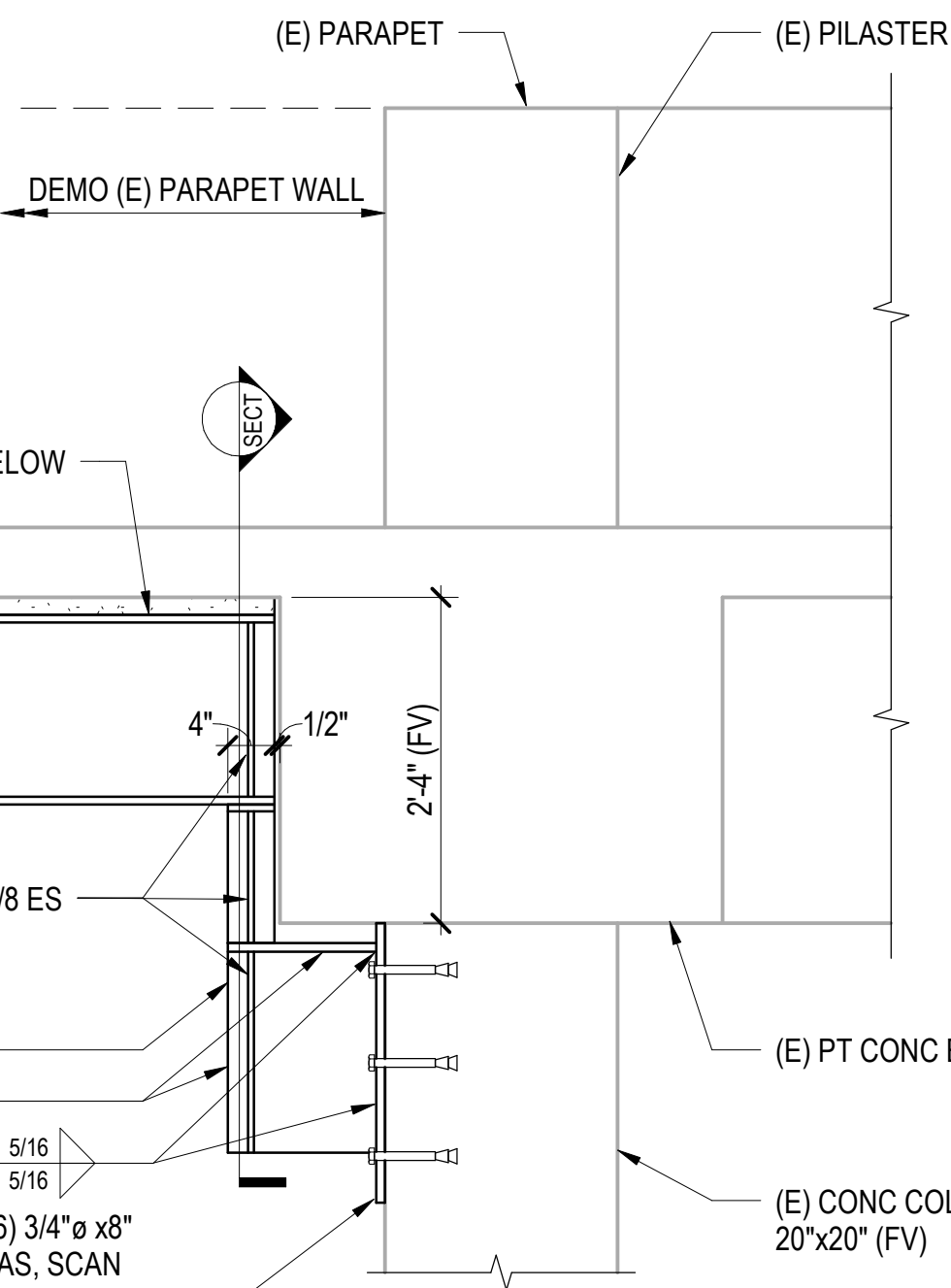
3/4" = 1'-0"

## SECTION

3/4" = 1'-0"



STRUCTURAL THERMAL BREAK DESIGN FORCES			
SERVICE LOADS			
DEAD		LIVE	
AXIAL (KIPS)	MOMENT (KIP-FT)	AXIAL (KIPS)	MOMENT (KIP-FT)
15	25	8	8
ULTIMATE LOADS			
LOAD COMBO		AXIAL (KIPS)	MOMENT (KIP-FT)
IBC 16-3		31	43
IBC 16-5		18	167



## SECTION

1/2" = 1'-0"

## SECTION

3/4" = 1'-0"

## SECTION

3/4" = 1'-0"

100% SUBMITTAL

## STRUCTURAL STEEL SECTIONS

ST601

## WATERFRONT SEATTLE OVERLOOK WALK IMPROVEMENTS

JOB NO.	PC	TS5766A
R/W		
CO		
VAULT PLAN NO.	790-621	
SHEET	446	OF 533



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 DESIGNED KV, LPH, 4/5/2021  
 CHECKED LLJ, TRM, 4/5/2021

INITIALS AND DATE  
 REVIEWED: DES. SDOT  
 CONST. PROJ. MGR.

DRAWN CMT1, 4/5/2021  
 CHECKED KV, LLJ, 4/5/2021

RECEIVED  
 REVISED AS BUILT

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR IN SECTION 0402.3 OF THE PROJECT MANUAL



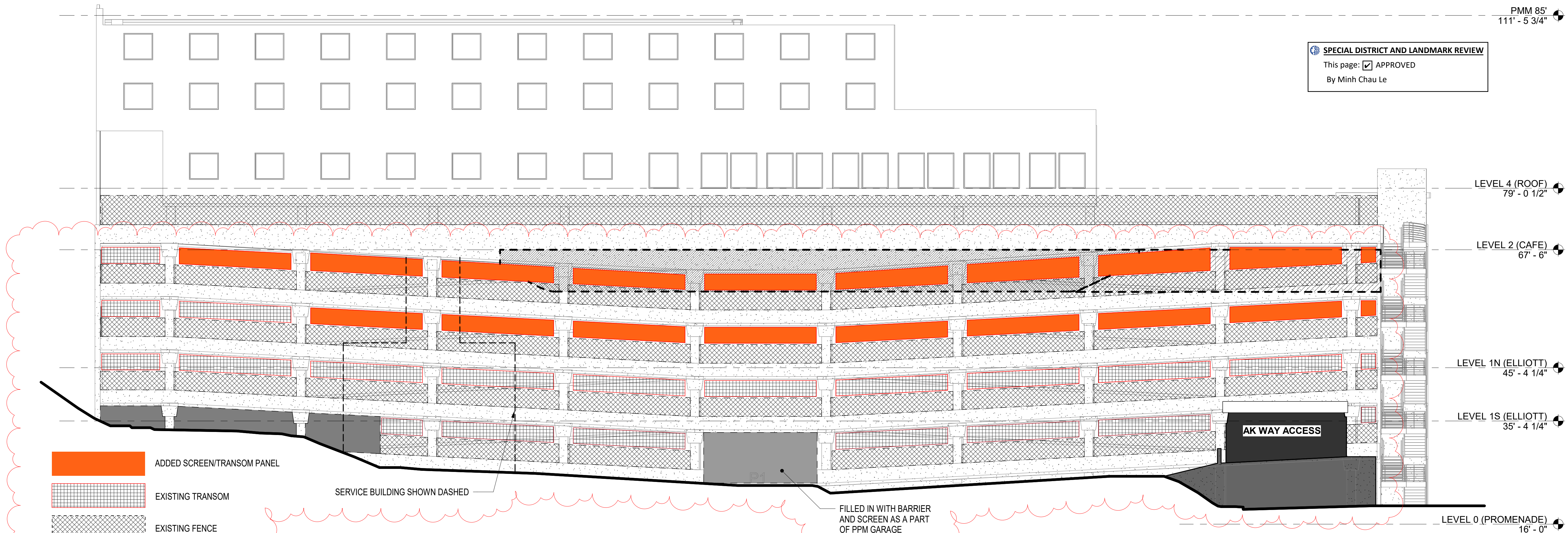
Seattle  
 Department of Transportation

ORDINANCE NO. 125475 PW NO. 2018-085  
 SUBPROJECT ID: TC367330  
 SCALE: 3/4" = 1'-0"

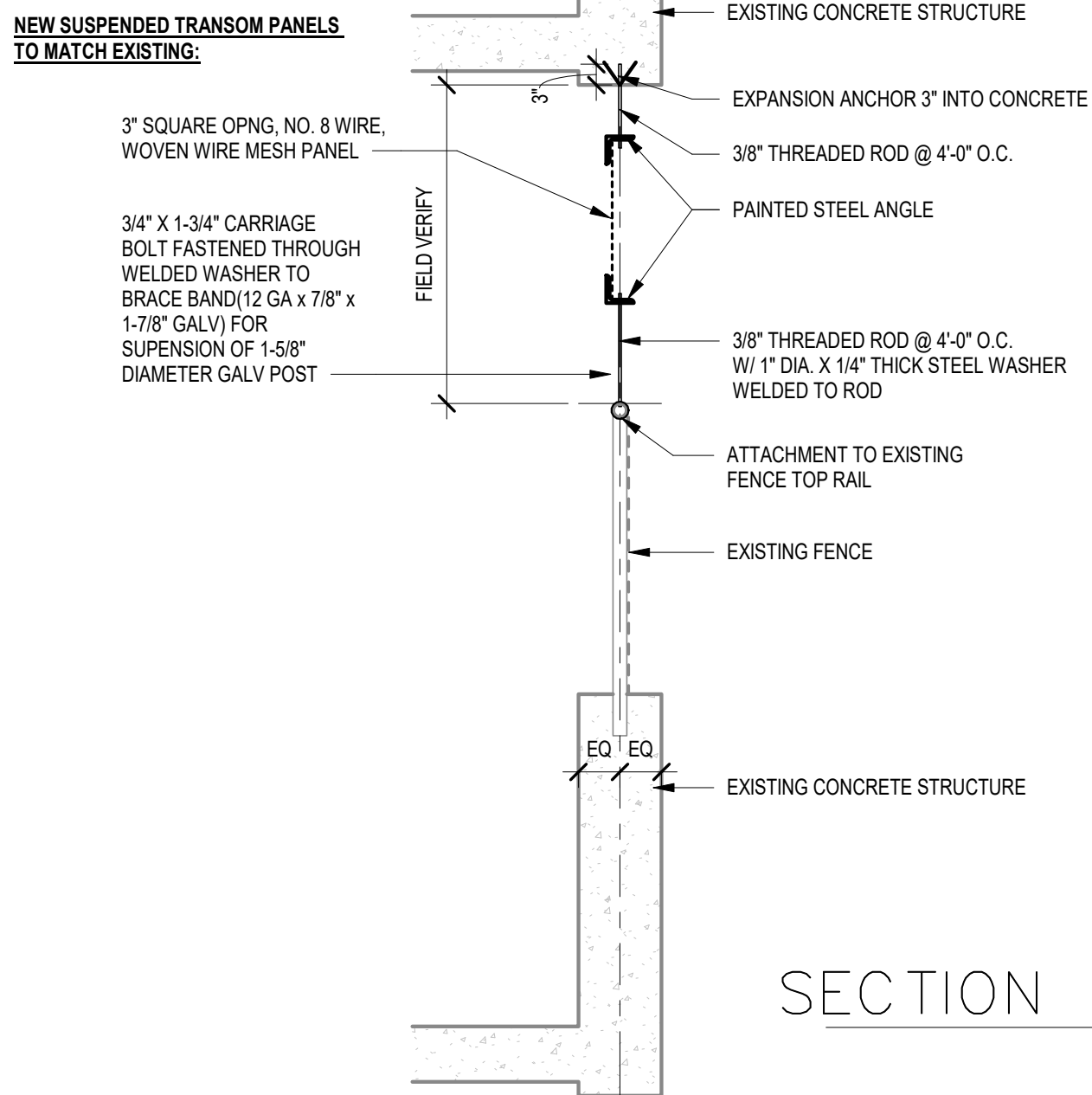


12/15/21	MADE CHKD REV'D
MACC - FINAL PRICING REVISION	MHP
NATURE	REVISIONS
DATE	MARK
VAULT SERIAL NO.	0000

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12/14/2021 12:01:32 AM



WEST ELEVATION - TRANSOM LAYOUT 1  
SCALE: 1" = 10'-0" AR004



EXISTING GARAGE FENCE AND TRANSOM FOR REFERENCE

SECTION - TRANSOM DETAIL AT GARAGE 2  
SCALE: 1/2" = 1'-0"



MACC- FINAL PRICING REVISION (REV #3)



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DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES  
SEATTLE, WASHINGTON 20  
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CITY PURCHASING & CONSTRATING SERVICES DIRECTOR

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DESIGNED MK  
CHECKED EL 03/09/2021  
DRAWN MK/CT  
CHECKED EL 03/09/2021  
ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR IN SECTION 0-02.3 OF THE PROJECT MANUAL

INITIALS AND DATE  
REVIEWED:  
DES. SDOT  
CONST. PROJ. MGR.  
RECEIVED  
REVISED AS BUILT



Seattle Department of Transportation  
ORDINANCE NO. \_\_\_\_\_ PW NO. \_\_\_\_\_  
SUBPROJECT ID: \_\_\_\_\_  
SCALE: As indicated

WATERFRONT SEATTLE  
OVERLOOK WALK  
IMPROVEMENTS

PC TS5766A  
JOB NO. R/W  
CO  
VAULT PLAN NO. 790-621  
SHEET OF



W16 STEEL SUPPORT

↑  
16"  
↓







## Stainless steel expansion joint plate slip resistance coating options (Contractor chooses 1)

### 1. [MEBAC® Anti-Slip Coatings | Slip Resistant Coating | IKG](#)



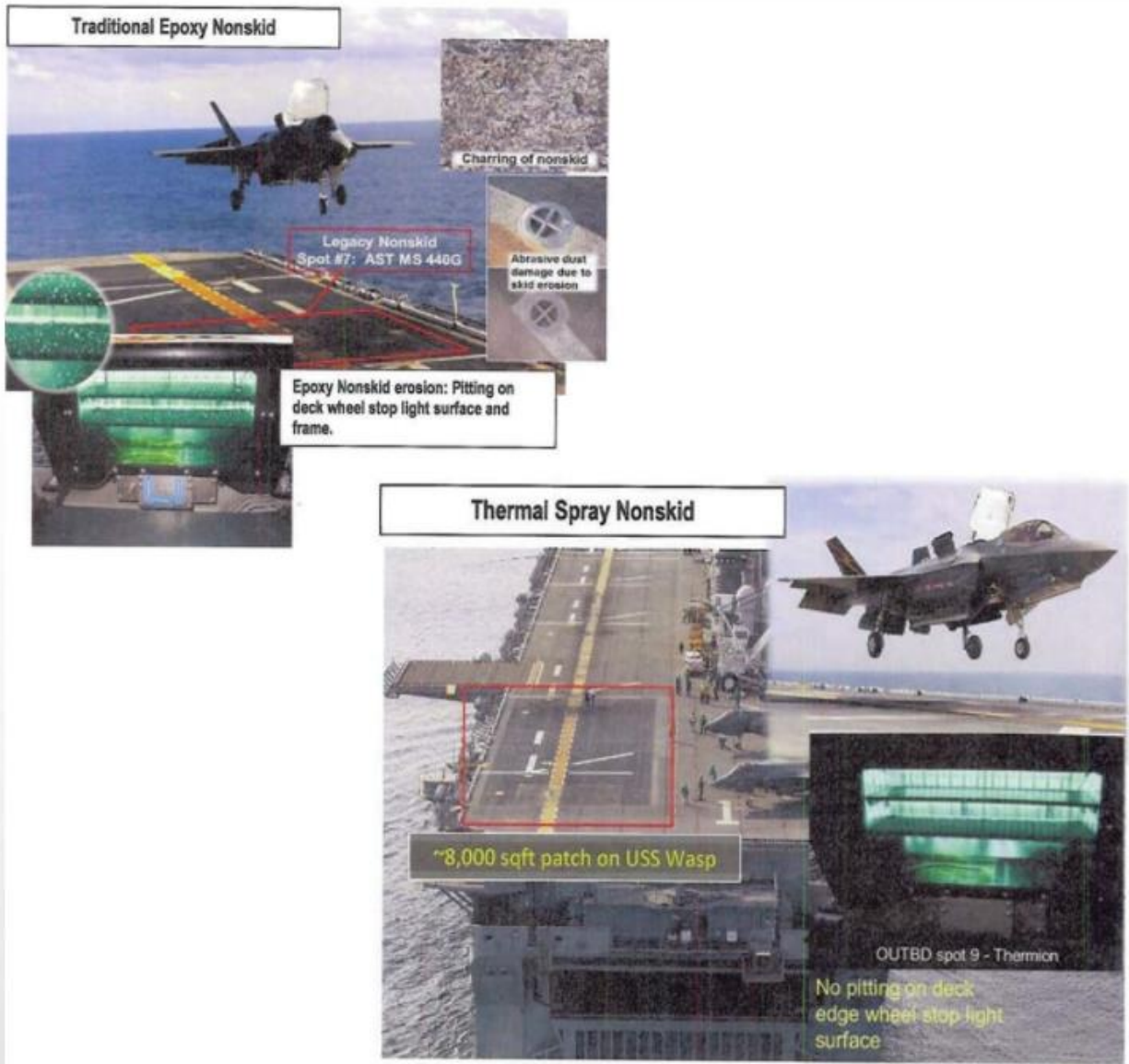
#### **Steel MEBAC 3**

MEBAC #3 is the coating of choice in high traffic areas where a slightly less aggressive surface is desired. MEBAC® anti-slip coatings #3 is the product of choice when the finished product will be galvanized. It is available only in the steel MEBAC coating and can be applied to solid plate surfaces as well as steel bar grating.

*Stainless steel MEBAC coatings are available for specialized applications. Important considerations in deciding whether to utilize this type of coating will be the longer lead times expected with this custom-made product, and significantly higher costs.*



2. [Thermal Spray SafTrax TH604 Non-Skid | Thermion \(thermioninc.com\)](https://thermioninc.com).





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By Minh Chau Le





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By Minh Chau Le





3. [SLIPNOT's Patented, High-Friction Slip-Resistant Technology | SLIPNOT®](#)



## STAINLESS STEEL

Stainless steel *SlipNOT*® can be applied to stainless steel or aluminum substrates. Our stainless steel on aluminum allows for a lightweight material and a chemical and corrosion resistant surface. *SlipNOT*® stainless steel remains completely slip resistant in countless environments, from food processing plants on catwalks, stairs