



PLANNING DEPARTMENT
6101 SE Johnson Creek Blvd
Milwaukie OR 97206

PHONE: 503-786-7630
FAX: 503-774-8236
E-MAIL: planning@ci.milwaukie.or.us

Application for Land Use Action

Master File #: CSU-12-03

Review type*: I II III IV V

CHECK ALL APPLICATION TYPES THAT APPLY:

<ul style="list-style-type: none"> <input type="checkbox"/> Amendment to Maps and/or Ordinances: <ul style="list-style-type: none"> <input type="checkbox"/> Comprehensive Plan Text Amendment <input type="checkbox"/> Comprehensive Plan Map Amendment <input type="checkbox"/> Zoning Text Amendment <input type="checkbox"/> Zoning Map Amendment <input type="checkbox"/> Code Interpretation <input checked="" type="checkbox"/> Community Service Use <input type="checkbox"/> Conditional Use <input type="checkbox"/> Development Review <input type="checkbox"/> Director Determination <input checked="" type="checkbox"/> Downtown Design Review <input type="checkbox"/> Extension to Expiring Approval <input type="checkbox"/> Habitat Conservation Area Review <input type="checkbox"/> Historic Resource <ul style="list-style-type: none"> <input type="checkbox"/> Alteration <input type="checkbox"/> Demolition <input type="checkbox"/> Status Designation <input type="checkbox"/> Status Deletion 	<ul style="list-style-type: none"> <input type="checkbox"/> Land Division <ul style="list-style-type: none"> <input type="checkbox"/> Final Plat <input type="checkbox"/> Lot Consolidation <input type="checkbox"/> Partition <input type="checkbox"/> Property Line Adjustment <input type="checkbox"/> Replat <input type="checkbox"/> Subdivision <input type="checkbox"/> Miscellaneous: <ul style="list-style-type: none"> <input type="checkbox"/> Barbed Wire Fencing <input type="checkbox"/> Bee Colony <input type="checkbox"/> Multifamily Recycling Area <input type="checkbox"/> Mixed Use Overlay Review <input type="checkbox"/> Modification to Existing Approval <input type="checkbox"/> Natural Resource Review <input type="checkbox"/> Nonconforming Use Alteration <input type="checkbox"/> Parking: <ul style="list-style-type: none"> <input type="checkbox"/> Quantity Determination <input type="checkbox"/> Quantity Modification <input type="checkbox"/> Shared Parking <input type="checkbox"/> Structured Parking 	<ul style="list-style-type: none"> <input type="checkbox"/> Planned Development <input type="checkbox"/> Residential Dwelling: <ul style="list-style-type: none"> <input type="checkbox"/> Accessory Dwelling Unit (Type 1) <input type="checkbox"/> Accessory Dwelling Unit (Type 2) <input type="checkbox"/> Manufactured Dwelling Park <input type="checkbox"/> Temporary Dwelling Unit <input type="checkbox"/> Sign Review <input type="checkbox"/> Transportation Facilities Review <input checked="" type="checkbox"/> Variance: <ul style="list-style-type: none"> <input type="checkbox"/> Use Exception <input checked="" type="checkbox"/> Variance <input type="checkbox"/> Willamette Greenway Review <input type="checkbox"/> Other: _____ <p>Use separate application forms for:</p> <ul style="list-style-type: none"> • Annexation and/or Boundary Change • Compensation for Reduction in Property Value (Measure 37) • Daily Display Sign • Appeal
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RESPONSIBLE PARTIES:

APPLICANT (owner or other eligible applicant—see reverse): TriMet c/o Leah Robbins	
Mailing address: 710 NE Holladay Street	Zip: 97232
Phone(s): 503 962 2264	E-mail: RobbinsL@tri-met.org
APPLICANT'S REPRESENTATIVE (if different than above): KLK Consulting LLC c/o Jeff Joslin	
Mailing address: 906 NW 23 rd Avenue Portland, OR	Zip: 97210
Phone(s): 503 329 2143	E-mail: jeffjoslin@klk-consulting.com

SITE INFORMATION:

Address: 11301 SE 21ST AVE		Map & Tax Lot(s): C224713 / 11B36BC03300	
Comprehensive Plan Designation: Town Ctr.	Zoning: DO	Size of property: approximately 1 acre	

PROPOSAL (describe briefly):

A light rail station area, to include: a light rail stop/platform, shelters, bike racks and a bike shelter, small plazas, and a stair connection between the station area and Lake Road below.

SIGNATURE:

ATTEST: I am the property owner or I am eligible to initiate this application per Milwaukie Municipal Code (MMC) Subsection 19.1001.6.A. If required, I have attached written authorization to submit this application. To the best of my knowledge, the information provided within this application package is complete and accurate.

Submitted by: Leah Robbins Date: March 26, 2012

IMPORTANT INFORMATION ON REVERSE SIDE

*For multiple applications, this is based on the highest required review type. See MMC Subsection 19.1001.6.B.1.

WHO IS ELIGIBLE TO SUBMIT A LAND USE APPLICATION (excerpted from MMC Subsection 19.1001.6.A):

Type I, II, III, and IV applications may be initiated by the property owner or contract purchaser of the subject property, any person authorized in writing to represent the property owner or contract purchaser, and any agency that has statutory rights of eminent domain for projects they have the authority to construct.

Type V applications may be initiated by any individual.

PREAPPLICATION CONFERENCE:

A preapplication conference may be required or desirable prior to submitting this application. Please discuss with Planning staff.

REVIEW TYPES:

This application will be processed per the assigned review type, as described in the following sections of the Milwaukee Municipal Code:

- Type I: Section 19.1004
- Type II: Section 19.1005
- Type III: Section 19.1006
- Type IV: Section 19.1007
- Type V: Section 19.1008

THIS SECTION FOR OFFICE USE ONLY:

FILE TYPE	FILE NUMBER	FEE AMOUNT*	PERCENT DISCOUNT	DISCOUNT TYPE	DEPOSIT AMOUNT	DATE STAMP
Master file	BU-12-03	\$ 1700			\$	<p>RECEIVED</p> <p>MAR 27 2012</p> <p>CITY OF MILWAUKIE PLANNING DEPARTMENT</p>
Concurrent application files	VR-12-02	\$ 1275 - (1175)			\$	
	DR-12-04	\$ 1275			\$	
		\$ -100 → - \$100 -		Prompt app conf.	\$	
		\$			\$	
SUBTOTALS		\$ 4150			\$	
TOTAL AMOUNT RECEIVED: \$ 4150		RECEIPT #:		RCD BY:		
Associated application file #s (appeals, modifications, previous approvals, etc.):						
Neighborhood District Association(s):						
Notes:						

*After discount (if any)



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For all Land Use Applications
(except Annexations and Development Review)

Submittal Requirements

All land use applications must be accompanied by a signed copy of this form (see reverse for signature block) and the information listed below. The information submitted must be sufficiently detailed and specific to the proposal to allow for adequate review. Failure to submit this information may result in the application being deemed incomplete per the Milwaukie Municipal Code (MMC) and Oregon Revised Statutes.

Contact Milwaukie Planning staff at 503-786-7630 or planning@ci.milwaukie.or.us for assistance with Milwaukie's land use application requirements.

1. **All required land use application forms and fees**, including any deposits.
Applications without the required application forms and fees will not be accepted.
2. **Proof of ownership or eligibility to initiate application** per MMC Subsection 19.1001.6.A.
Where written authorization is required, applications without written authorization will not be accepted.
3. **Detailed and comprehensive description** of all existing and proposed uses and structures, including a summary of all information contained in any site plans.
Depending upon the development being proposed, the description may need to include both a written and graphic component such as elevation drawings, 3-D models, photo simulations, etc. Where subjective aspects of the height and mass of the proposed development will be evaluated at a public hearing, temporary on-site "story pole" installations, and photographic representations thereof, may be required at the time of application submittal or prior to the public hearing.
4. **Detailed statement** that demonstrates how the proposal meets all applicable application-specific approval criteria (check with staff) and all applicable development standards (listed below):
 - a. **Base zone standards** in Chapter 19.300.
 - b. **Overlay zone standards** in Chapter 19.400.
 - c. **Supplementary development regulations** in Chapter 19.500.
 - d. **Off-street parking and loading standards and requirements** in Chapter 19.600.
 - e. **Public facility standards and requirements**, including any required street improvements, in Chapter 19.700.
5. **Site plan(s), preliminary plat, or final plat** as appropriate.
See Site Plan, Preliminary Plat, and Final Plat Requirements for guidance.
6. **Copy of valid preapplication conference report**, when a conference was required.

APPLICATION PREPARATION REQUIREMENTS:

- Five copies of all application materials are required at the time of submittal. Staff will determine how many additional copies are required, if any, once the application has been reviewed for completeness.
- All application materials larger than 8½ x 11 in. must be folded and be able to fit into a 10- x 13-in. or 12- x 16-in. mailing envelope.
- All application materials must be collated, including large format plans or graphics.

ADDITIONAL INFORMATION:

- Neighborhood District Associations (NDAs) and their associated Land Use Committees (LUCs) are important parts of Milwaukie's land use process. The City will provide a review copy of your application to the LUC for the subject property. They may contact you or you may wish to contact them. Applicants are strongly encouraged to present their proposal to all applicable NDAs prior to the submittal of a land use application and, where presented, to submit minutes from all such meetings. NDA information: <http://www.ci.milwaukie.or.us/communityservices/neighborhoods-program>.
- Submittal of a full or partial electronic copy of all application materials is strongly encouraged.

As the authorized applicant I, (print name) LEAH ROBBINS, attest that all required application materials have been submitted in accordance with City of Milwaukie requirements. I understand that any omission of required items or lack of sufficient detail may constitute grounds for a determination that the application is incomplete per MMC Subsection 19.1003.3 and Oregon Revised Statutes 227.178. I understand that review of the application may be delayed if it is deemed incomplete.

Furthermore, I understand that, if the application triggers the City's sign-posting requirements, I will be required to post signs on the site for a specified period of time. I also understand that I will be required to provide the City with an affidavit of posting prior to issuance of any decision on this application.

Applicant Signature: Leah Robbins

Date: 3/23/12

Official Use Only

Date Received (date stamp below):



Received by: lrc

Date: August 2, 2011
To: City of Milwaukie Planning Department
From: Leah Robbins, TriMet, PMLR East Segment Director
Subject: Application Submittal Authorization

UP

This memorandum authorizes KLK Consulting LLC to submit Land Use applications on behalf of TriMet pertaining to the Portland-Milwaukie Light Rail Project.

Furthermore, please be informed that TriMet does have the authority to apply for applications on any sites and ownerships within per MMC 19.1001.6 Applications:

A. Initiation

Type I, II, III, and IV applications may be initiated by the property owner or contract purchaser of the subject property, any person authorized in writing to represent the property owner or contract purchaser, and any agency that has statutory rights of eminent domain for projects they have the authority to construct.

TriMet's enabling statute vests the district with eminent domain authority. Specifically, ORS 267.200(2) provides that TriMet may "[a]cquire by condemnation, purchase, lease, devise, gift or voluntary grant real and personal property or any interest therein, located inside the boundaries of the district and take, hold, possess and dispose of real and personal property purchased or leased from, or donated by, the United States, or any state, territory, county, city or other public body, nonprofit corporation or person for the purpose of providing or operating a mass transit system in the district and aiding in the objects of the district."

MLW-4667
MP.15E.D.836

CITY OF MILWAUKIE

PreApp Project ID #: 11-012PA

PRE-APPLICATION CONFERENCE REPORT

This report is provided as a follow-up to a meeting that was held on 11/17/2011 at 11:00 am

Applicant Name: JEFF JOSLIN
Company: KLK CONSULTING
Applicant 'Role': Architect
Address Line 1: 906 NW 23RD AVE
Address Line 2:
City, State Zip: PORTLAND OR 97210
Project Name: PORTLAND-MILWAUKIE LIGHT RAIL DOWNTOWN STATION
Description:
ProjectAddress: SE 21st AVE & SE LAKE RD
Zone: Downtown Office (DO), small portion of site within 100 ft of HCA
Occupancy-Group:
ConstructionType:
Use: Transit stop.
Occupant Load:
AppsPresent: Jeff Joslin, Joe Recker, Karen Karlsson, Jeb Doran
Staff Attendance: Kenny Asher, Katie Mangle, Wendy Hemmen, Susan Shanks, Li Alligood, Zach Weigel

BUILDING ISSUES

ADA:

Structural:

Mechanical:

Plumbing:

Plumb Site Utilities:

Electrical:

Notes: No comment at this time. For questions contact: Tom Larsen; (503) 786-7611 or larsent@ci.milwaukie.or.us.

Please note all drawings must be individually rolled. If the drawings are small enough to fold they must be individually folded.

FIRE MARSHAL ISSUES

Fire Sprinklers:

Fire Alarms:

Fire Hydrants:

Turn Arounds:

Addressing:

Fire Protection:

Fire Access:

Hazardous Mat.:

Fire Marshal Notes:

PUBLIC WORKS ISSUES

- Water:** The water System Development Charge (SDC) is based on the size of water meter serving the property. The corresponding water SDC will be assessed with installation of a water meter. Water SDC credit will be provided based on the size of any existing water meter serving the property removed from service. The water SDC will be assessed and collected at the time the building permits are issued.
- Sewer:** If wastewater service is extended to serve the light rail station, the following applies. The wastewater SDC is assessed using a plumbing fixture count from Table 7-3 of the Uniform Plumbing Code. The wastewater SDC connection units are calculated by dividing the fixture count of new plumbing fixtures by sixteen. The wastewater SDC will be assessed and collected at the time the building permits are issued.
- Storm:** Submission of a storm water management plan by a qualified professional engineer is required as part of the proposed development. The plan shall conform to Section 2 - Stormwater Design Standards of the City of Milwaukie Public Works Standards. The storm water management plan shall demonstrate that the post-development runoff does not exceed the pre-development, including any existing storm water management facilities serving the development property. Also, the plan shall demonstrate compliance with water quality standards. The City of Milwaukie has adopted the City of Portland 2008 Stormwater Management Manual for design of water quality facilities. All new impervious surfaces, including replacement of impervious surface with new impervious surfaces, are subject to the water quality standards. See City of Milwaukie Public Works Standards for design and construction standards and detailed drawings.
- The storm SDC is based on the amount of new impervious surface constructed at the site. One storm SDC unit is the equivalent of 2,706 square feet of impervious surface. The storm SDC will be assessed and collected at the time the building permits are issued.

Street: N/A

Frontage: The light rail station as proposed does not trigger the requirements of MMC Section 19.700.

Right of Way: N/A

Driveways: N/A

Erosion Control: N/A

Traffic Impact Study: N/A

PW Notes:

PLANNING ISSUES

Setbacks: Downtown Office zone: No minimum or maximum setbacks along northwest property line, adjacent to the light rail platform; setbacks on Lake Rd and 21st Ave frontages are 0 ft minimum setback and 10 ft maximum setback.

Landscape: No minimum landscaping required.

Parking: The site is not in the area of downtown that is exempt from minimum parking requirements. The proposed use, a transit stop, is not listed in Table 16.605.1, and the quantity requirements must be determined per MMC 19.605.2. This is a Type II land use application subject to the criteria contained in MMC 19.605.2.C.

Any off-street parking requirement could be met through a shared parking agreement. The standards and procedures for review of a shared parking agreement are detailed in MMC 19.605.4.

Bicycle parking would be required at a ratio of 10% of the minimum parking requirement. Compliance with standards in MMC 19.609 would be required for the design and location of bike parking.

Transportation Review: The Engineering Director has indicated that the project does not trigger compliance with MMC 19.700. Please see the Public Works section of these notes for more information.

Application Procedures: The proposal is subject to Community Service Use (CSU) review; Downtown Design Review (DR); Variance Request (VR) review; and Parking Quantity Modification (P) review. Any requirement for a Type I construction management plan review (see Natural Resource Review below) would be completed at the time of building permit review and would not involve any additional time or cost.

The proposed site is composed of a small existing tax lot and a portion of the railroad right-of-way. No information has been provided about potential boundary changes or land divisions needed to create the development site. These actions may require land use applications under MMC Title 17 Land Division. The applications, timelines, and costs for such applications are not included in these notes.

Community Service Use (CSU): CSU approval is required for the proposed use, which is identified as a Utility – Passenger Terminal. The application fee is \$1,700. The application is reviewed through a Type III review per MMC 19.1006. The approval criteria for a CSU application are in MMC 19.904.4.

Downtown Design Review (DR): The application fee is \$1,700. The application is reviewed through a Type III review per MMC 19.1006; with a Design Review Meeting by the Design and Landmarks Committee (DLC) per MMC 19.1011. The Design Review Meeting is held by the DLC as a public

meeting, and is a forum for the DLC to make a recommendation to the Planning Commission about approval of the DR application. The DLC considers only the DR portion of the proposal and does not consider other concurrent applications. The DLC's decision is a non-binding recommendation to the Planning Commission. The Planning Commission is the final decision maker for DR applications, and their review is conducted at a public hearing. The application requirements and approval criteria for a DR application are in MMC 19.907.

Variance Request (VR): The application fee is \$1,700. The application is reviewed through a Type III review per MMC 19.1006. The procedures and approval criteria for a VR application are in MMC 19.911.4

Parking Quantity Modification (P): The application fee is \$900. The application is reviewed through a Type II review per MMC 19.1005. The procedures and approval criteria for a P application are in MMC 19.605.2.B-C. This application can be submitted independently of the other applications.

For the City's initial review, the applicant should submit 5 complete copies of the application, including all required forms and checklists. A determination of the application's completeness will be issued within 30 days. If deemed incomplete, additional information will be requested. If deemed complete, additional copies of the application will be required for referral to other departments, the Neighborhood District Association (NDA), and other relevant parties and agencies. City staff will inform the applicant of the total number of copies needed.

General application procedures:

Land use applications need to include the land use application form, the submittal requirements form, and the site plan requirements checklist. Copies can be obtained from our office or on the City's website. The application narrative must address the applicable criteria and standards, which are identified in these notes.

Fees:

There is a fee discount for concurrent land use applications. The application with the highest fee is charged, and all other land use application fees are reduced by 25%. The discount does not apply to deposits. In addition, half of the \$200 preapplication conference fee can be discounted from the total application fee amount.

Natural Resource Review: The project site does not contain any Water Quality Resource or Habitat Conservation Area. It appears that a small portion of the site along the Lake Rd property line is with 100 ft of a Habitat Conservation Area (HCA) south of the site. Development within this area would require that a construction management plan be submitted to document the measures used to avoid impacts to the HCA during construction. The construction management plan should include the information outlined in MMC 19.402.9, and is subject to Type I review. There is no fee for this application.

Lot Geography: The proposed site is triangular in shape. The minimum lot size for a new lot in the Downtown Office zone is 5,000 sq ft, and a minimum of 30 ft of frontage on a public street is required. There are no specified dimensions for lot width or depth.

Planning Notes: 1) Development Standards

As proposed, the transit stop would require an adjustment to three development standards.

The first is the maximum 10 ft setback along Lake Rd and 21st Ave. The proposed structures are set back between approximately 0 ft and 50 ft from 21st Ave. Staff believes the maximum setback issue could be addressed through a Type III variance, based on the argument that the location of the transit stop shelter and associated structures are a unique use that has desirable public benefits.

The second standard is the required off-street parking requirements. This requirement could be addressed through a Type II Parking Quantity Modification (P) application, per MMC 19.605.2. A suggested basis for a request of no required parking would be comparison of other jurisdictions with a similarly-scaled high capacity transit stop.

The third standard is the Floor Area Ratio (FAR) for the DO zone. The minimum FAR for new development in the DO zone is 0.5:1. The proposed development does not include enclosed space and does not meet this requirement. A Type III Variance Request to this standard will be required.

2) Design Standards

According to the information provided, it appears that the majority of the elements of the proposed transit stop would meet the design standards in MMC 19.310.6.C. The level of detail provided was insufficient for staff review of the retaining walls on site, which will be subject to the design standards of MMC 19.310.6.C.2.

3) Downtown Design Guidelines

The level of detail provided was insufficient for staff review of the proposed development with respect to the Downtown Design Guidelines. Based on the information provided, staff believes that the following design guidelines would be applicable to the proposed development. The application narrative should discuss how the proposal substantially conforms to each of these guidelines.

Milwaukie Character Guidelines:

Potentially applicable guidelines: 'Reinforce Milwaukie's Sense of Place'; 'Integrate the Environment'; 'Promote linkages to Horticultural Heritage'; 'Establish or Strengthen Gateways'; 'Consider View Opportunities'; and 'Integrate Art'. Conformance with 'Sense of Place' can be bolstered by providing special relationships at the pedestrian level through wall treatments, design references, or landscaping. The 'Promote Linkages to Horticultural Heritage' guideline would suggest that the small plazas and open spaces should be nicely planted and feature dogwoods, cherry, and other flowering, ornamental trees. The 'Establish or Strengthen Gateways' guideline would suggest the use of non-utilitarian gateway materials that indicate transitions from public to private spaces. The guidelines for 'Integrate the Environment' and 'Consider View Opportunities' would suggest making visual linkages toward the riverfront and Kellogg Lake area as much as possible. The 'Integrate Art' guideline would suggest that art be designed for and integrated into the site, and used sparingly overall. Review of the public art would be restricted to substantial conformance with this guideline.

Pedestrian Emphasis Guidelines:

Potentially applicable guidelines: 'Reinforce and Enhance the Pedestrian System'; 'Define the Pedestrian Environment'; 'Create Successful Outdoor Spaces'; and 'Integrate Barrier-Free Design.' Substantial compliance with the 'Reinforce and Enhance the Pedestrian System' guideline should involve a discussion of the reasons for any transit stop-related pedestrian routes that are indirect or present barriers in the form of gates and other obstructions. Depending on the final design and program for the open areas at the northwest corner (bike parking area) and southeast corner of the site, the 'Create Successful Outdoor Spaces' guideline may apply.

Architectural Guidelines:

Potentially applicable guidelines: 'Wall Materials'; 'Wall Structure'; 'Silhouette and Roofline'; and 'Green Architecture.'

Lighting Guidelines:

Potentially applicable guidelines: 'Exterior Building Lighting'; 'Landscape Lighting'; and 'Sign Lighting'.

Sign Guidelines:

Potentially applicable guidelines: 'Information and Guide Signs'; 'Kiosks and Monument Signs'.

Based on the information provided, it appears that the following components of the proposed transit stop would be subject to design review: bicycle parking shelter and lockers; TVM shelters; platform shelter; public art; retaining walls; cantilevered platform area; jump span lighting; railings; site and platform lighting; signage; and pedestrian connection and circulation to the north; and plaza areas in the north and southeast areas of the site. Depending on the final design, additional elements may be subject to design review. The applicant should provide as much information as possible about these elements (exact location, design, materials, etc.) with the application.

As part of the Design Review application, it is important that the applicant define the transit stop's 'Elements of Consistency' and 'Elements of Distinction'. The application narrative should include a discussion of the 'Consistency' options available and the reason the proposed package was chosen. The narrative should also identify areas of the 'Distinction' options that are open to DLC influence and input.

4) Downtown Office uses: The proposed transit stop would meet the use standards in the DO zone as a Community Service Use.

5) On-site staging: As long as the entire site is under TriMet ownership, a Community Service Use (CSU) application would not be required for use of the eastern portion of the site as a staging area. It is unclear if a CSU application for staging use would be required if a portion of the property is divided and sold to another party while construction is underway.

6) Additional Information

Additional information is needed for thorough evaluation of the proposal, including: small components shown and not labeled in the submitted plans; proposed site signage; cantilevered deck details, including the design of the jump span lighting; signal bungalow details; the design and proposed location of the bike shelters and lockers; the design of the shelter platform and TVM shelters; pedestrian and ADA access to the platform; the program (if any) for the small open areas/plazas at the northwest and southeast corners of the site; landscaping on site; and the final extent of the site and location of property lines, including what portions of the station site will be located in the public right-of-way.

7) Though the application for the light rail bridge indicated that a stormwater facility would be located on the light rail station site, the above-ground design of the facility has not been reviewed. The stormwater facility and its components (walls, art, landscaping etc.) are subject to design review as part of the station site land use process. The design of the stormwater facility must first be approved before the City can issue construction permits. See Public Works notes for additional information about when this facility will likely need to be constructed as part of the Kellogg Bridge permitting process.

8) The preapplication conference is valid for purposes of submitting future land use applications as described in 19.1002.4. In general, a preapplication conference is valid for 2 years.

ADDITIONAL NOTES AND ISSUES

County Health Notes:

Dated Completed: 3/6/2012

City of Milwaukie DRT PA Report

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Other Notes:

This is only preliminary preapplication conference information based on the applicant's proposal and does not cover all possible development scenarios. Other requirements may be added after an applicant submits land use applications or building permits. City policies and code requirements are subject to change. If you have any questions, please contact the City staff that attended the conference (listed on Page 1). Contact numbers for these staff are City staff listed at the end of the report.

Sincerely,

City of Milwaukie Development Review Team

BUILDING DEPARTMENT

Tom Larsen - Building Official - 503-786-7611
Bonnie Lanz - Permit Specialist - 503-786-7613

ENGINEERING DEPARTMENT

Gary Parkin - Engineering Director - 503-786-7601
Brad Albert - Civil Engineer - 503-786-7609
Zach Weigel - Civil Engineer - 503-786-7610
Jason Rice - Civil Engineer - 503-786-7605
Matt Palmer - Associate Engineer - 503-786-7602

COMMUNITY DEVELOPMENT DEPARTMENT

Jeanne Garst - Administrative Supervisor - 503-786-7655
Marcia Hamley - Admin Specialist - 503-786-7656
Blanca Marston - Admin Specialist - 503-786-7600
Alicia Martin - Admin Specialist - 503-786-7600

PLANNING DEPARTMENT

Katie Mangle - Planning Director - 503-786-7652
Susan P. Shanks - Senior Planner - 503-786-7653
Brett Kelyer - Associate Planner - 503-786-7657
Ryan Marquardt - Associate Planner - 503-786-7658
Li Alligood - Assistant Planner - 503-786-7627

CLACKAMAS FIRE DISTRICT

Doug Whiteley - Lieutenant Deputy Fire Marshal - 503-742-2692

DOWNTOWN DESIGN REVIEW CHECKLIST

Project/Applicant Name: PORTLAND MILWAUKIE LIGHT RAIL DOWNTOWN STATION / TRIMET
 Project Address: 11301 SE 21st AVE.
 Application Submission Date: 3-26-12
 Zoning: DO
 Building Use: LIGHT RAIL STATION AREA
 Completed By: JEFF JOSLIN / KKK CONSULTING on: 3-22-12

STANDARDS AND GUIDELINES

	Complies		
A. Development and Design Standards	Yes	No	NA
1. Development Standards			
a. Permitted Use	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Minimum Lot Size	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Floor Area Ratio	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. Building Height	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e. Residential Density	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f. Street Setbacks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g. Side and Rear Setbacks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
h. Ground-floor Retail	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
i. Ground-floor Windows/Doors	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
j. Drive-through Facilities	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
k. Off-street Parking Requirements <i>- T.B.D by P Review</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
l. Landscaping	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Design Standards			
a. Residential Entries and Porches	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. Garages and Parking Areas	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c. Courtyards	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d. Balconies	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e. Walls	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f. Windows	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g. Roofs	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
B. Design Guidelines			
1. Milwaukie Character			
a. Reinforce Milwaukie's Sense of Place	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Integrate the Environment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Promote Linkages to Horticultural Heritage	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Establish or Strengthen Gateways	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Consider View Opportunities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f. Consider Context	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g. Promote Architectural Compatibility	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
h. Preserve Historic Buildings	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
i. Use Architectural Contrast Wisely	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
j. Integrate Art	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

DOWNTOWN DESIGN REVIEW CHECKLIST

		Complies		
		Yes	No	NA
2. Pedestrian Emphasis				
a.	Reinforce and Enhance the Pedestrian System.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b.	Define the Pedestrian Environment.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c.	Protect the Pedestrian from the Elements.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d.	Provide Places for Stopping and Viewing.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e.	Create Successful Outdoor Spaces.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f.	Integrate Barrier-Free Design.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Architecture				
a.	Corner Doors.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b.	Retail and Commercial Doors.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c.	Residential Doors.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d.	Wall Materials.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e.	Wall Structure.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f.	Retail Windows.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g.	Residential Bay Windows.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
h.	Silhouette and Roofline.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i.	Rooftops.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
j.	Green Architecture.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
k.	Building Security.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
l.	Parking Structures.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Lighting				
a.	Exterior Building Lighting.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b.	Parking Lot Lighting.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c.	Landscape Lighting.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d.	Sign Lighting.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Signs				
a.	Wall Signs.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b.	Hanging or Projecting Signs.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c.	Window Signs.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d.	Awning Signs.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e.	Information and Guide Signs.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f.	Kiosk Monument Signs.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g.	Temporary Signs.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Notes:



PORTLAND-MILWAUKIE
LIGHT RAIL PROJECT

Downtown Milwaukie Station

MILWAUKIE, OREGON

APPLICATION FOR
Community Service Use Review
Design Review
Variances Review

RECEIVED

APR 26 2012

CITY OF MILWAUKIE
PLANNING DEPARTMENT

KLK CONSULTING LLC
April 25, 2012



DOWNTOWN MILWAUKIE STATION
APPLICATION STANDARDS AND CRITERIA RESPONSE

Procedure Type
MNQJ/Planning Commission

Reviews Required

DESIGN REVIEW
COMMUNITY SERVICE USE REVIEW
VARIANCE REVIEW

REVIEW EXTENT

VARIANCE

As it's been identified that two development standards (setbacks, and floor area ratio) are not met, variance reviews are required.

DESIGN REVIEW

As the Station is with the DO (Downtown Office) Zone, Design Review is required.

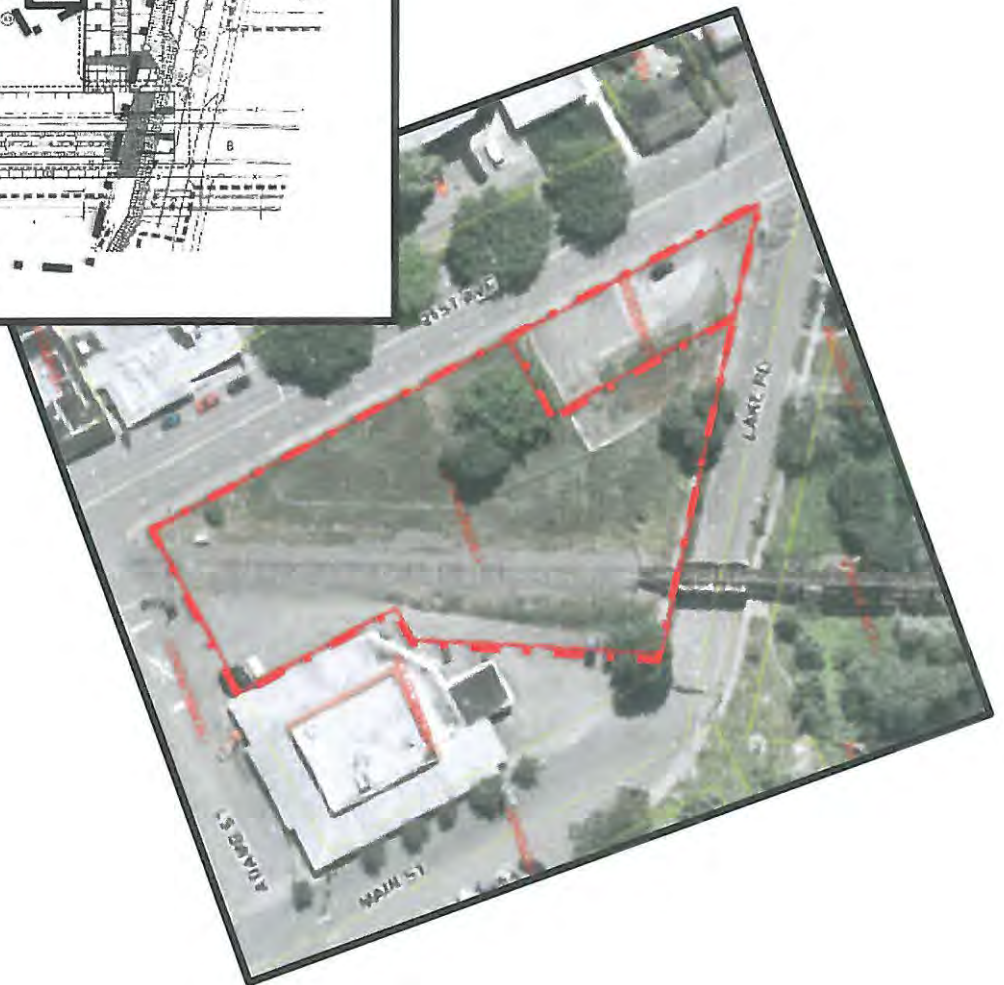
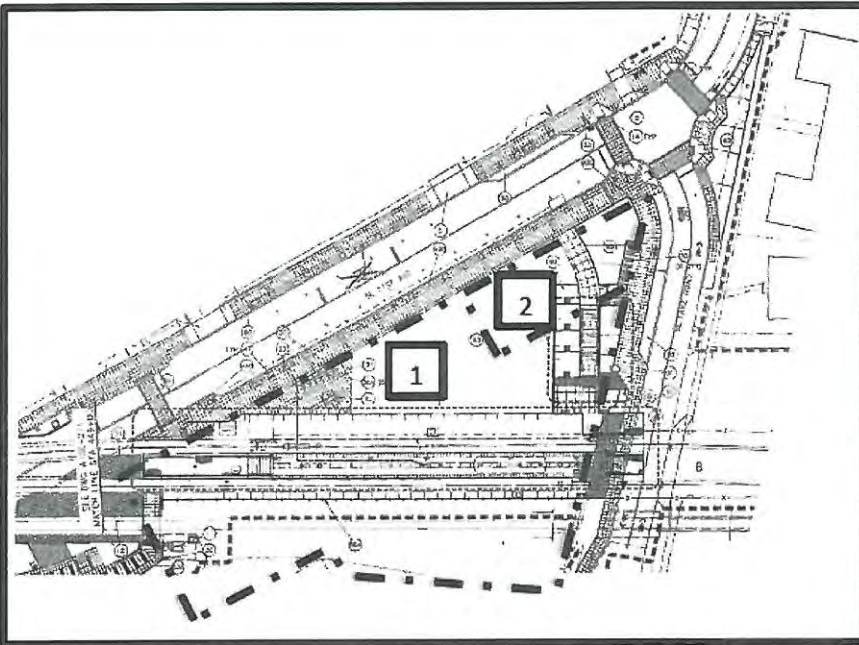
COMMUNITY SERVICE USE

As the Station use has been defined as Utility-Passenger Terminal, a Community Service Use Review is required.

RECEIVED
APR 26 2012
CITY OF MILWAUKIE
PLANNING DEPARTMENT

PROPERTIES WITHIN THE EXTENT OF THE REVIEW

lot #	Street	Property ID #	Assessor Reference #
1	No Address Available	not available	11E36BC03300
2	11301 SE 21ST AVE	C224713	11E36BC03300



DETAILED PROPOSAL DESCRIPTION

The Portland Milwaukie Light Rail project is a 7.3 mile extension of the TriMet regional rail system. The rail system includes a station in downtown Milwaukie, and another just south of Milwaukie at Park Avenue and McLoughlin (Exhibits O1 and O2).

Various portions and aspects of the project have gone through land use reviews, and others will come through future reviews. Among the elements in the immediate vicinity already reviewed are: the “jump span” bridge over Lake Road, and the abutment wall also along Lake Road directly underneath the jump span.

One condition of approval from the WG-11-01 final decision applies directly to this review, and is addressed accordingly. That condition reads as follows:

6. The DLC requested more information and different light fixture options for lighting underneath the jump span than what was presented by the applicant at the Oct 17 DLC design review meeting. The applicant shall resubmit this design item for consideration during the land use proceedings for the Milwaukie Light Rail Station. A summary of the DLC’s design direction to the applicant is as follows:
 - A. Provide more detailed information about the underside of the jump span (the “ceiling” of the room) and the light from the light fixtures that demonstrates how the light interacts with the ceiling to make for a comfortable, attractive, and safe pedestrian environment.
 - B. Provide more detailed information about the light from the light fixtures that demonstrates how the location, output, and angle of the light enhances the proposed wall treatments and provides for a comfortable, attractive, and safe pedestrian environment.
 - C. Provide a less modern and utilitarian light fixture option. Specifically, provide detailed information that demonstrates how the style and color of the light fixture and the method of mounting compliments the style of the proposed wall treatments and provides for a comfortable, attractive, and safe pedestrian environment.
 - D. Provide illustrations and analysis demonstrating that the proposed lighting achieves the following during both daytime and nighttime conditions:
 - Uniform lighting of the sidewalk
 - Minimal glare
 - Minimal deep shadows beneath the structure
 - E. Explore other energy efficient and low-pollutant lighting options with a focus on comparing fluorescent lighting with LED and other feasible lighting options. Provide a memo that summarizes key findings and includes a rationale for the final lighting selection.

The purpose of this application is to seek the following approvals for the downtown station design and use specifically, and is limited to the elements in the area circumscribed by Lake Road, SE 21st Avenue, and an existing railroad right-of-way.

1. The station use, characterized as Utility-Passenger Terminal, is subject to a **Community Service Use Review**.
2. The need for a **Variance Review** for setbacks and floor area ratio requirements has also been identified.

3. **Design Review** approval for station elements include.

- The platform access, cantilevered over Lake Road.
- The abutment wall along Lake Road, except for the portion already approved through the earlier Kellogg Crossing Design Review.
- The rail station platform.
- Retaining walls on-site.
- The rail station shelter color and glass canopy roof material.
- Stairs connecting the platform to Lake road to the south end of the station area.
- A bicycle shelter.
- Location of Bicycle racks, and a bicycle locker.
- Railings, paving, landscaping, and other associated site treatments.
- The lighting under the jump span bridge, per the Condition of Approval identified above, demonstrating compliance with Condition 6 of WG-11-01. The narrative response (key findings) is found in Exhibit P19, addressing each of the components of the Condition. Associated Exhibits (Exhibits P5A, P5B, P6, P6A, P6B, P6C, P6D, and 6E) are included to fully describe and assess these lighting elements in response to all aspects of the condition.

Future Station and Private Development Areas

- A graded area seeded as lawn preserves space for a future city building project and a landscape bed between the station trackway, and the lawn area preserves future station platform. These designs are proposed until such time as the site is otherwise segregated and developed as per a memorandum of understanding between the city and TriMet.

There is also public art (Exhibits P15, P16, P17, P18), integrated into the project in three different areas including the station shelter, a plaza area to the north, and another integral to the abutment wall along Lake Road. The art is being vetted through a public art process, and is complimentary to the station design.

Throughout the light rail system, there has been an effort to define both “Elements of Continuity” and “Elements of Distinction”.

Elements of Continuity (Exhibits P7) are those that serve to provide a familiarity and continuity from station to station. Use of like elements at respective stations serves a number of purposes. Successfully guiding passengers as they get on and off at each station is one: the similarity of such elements serves to help orient passengers. This orientation aspect also contributes to the safety of passengers, as they successfully and efficiently navigate their way through the station sequence. Cost-effectiveness of both acquisition and maintenance is also best-served by these standardized elements.

Elements of Continuity include: internal signs, track, catenary poles, platform lighting, ticket vending machines, equipment boxes, light standards, and shelter structures. These elements are within the area being reviewed and are included for reference, however these items are not subject to review.

In addition, railroad facilities and equipment, including track, signals, and signal bungalows, are a part of the railroad system and are subject to the federal Interstate Commerce Commission Termination Act of 1995, which preempts local and state law related to that subject matter. Therefore, the location, design, and other features of these elements are not subject to review.

Elements of Distinction (Exhibits P9, P10, P11, P12)) are those that have been selected or modified to give stations a unique character, and contribute to the successful integration of the station area into the respective context. In the case of Milwaukie, a number of Elements of Distinction are proposed. They include:

- An ashlar masonry pattern for the Lake Road abutments and other wall surfaces.
- Light standards (though not subject to review, as they are public improvements) consistent with downtown Milwaukie street lighting. The Milwaukie lighting standard has also been incorporated into the Stairway design leading to the south platform to extend streetscape design.
- Off-platform bollards, and benches selected to be consistent with the downtown street furniture.
- Railings designed in a Milwaukie-specific motif.
- The painting of these respective identified elements to correspond to the downtown Milwaukie street furniture palette.
- Plantings schemes created to connect thematically to nearby natural areas, enhance station area design and anticipate future development.
- Glass canopy for the station shelter with historic Milwaukie black color used on painted metal materials. The glass canopy is an atypical treatment, and the use of Milwaukie Black is unique to this station.

The applicable standards and approval criteria have been identified and addressed below. The proposal has been designed to be consistent with those approval criteria, and seeks an approval at this time.

APPLICABLE APPROVAL CRITERIA

Those Code sections determined to be Applicable have been identified as follows.

Community Service Use

19.904.4 APPROVAL CRITERIA COMMUNITY SERVICE USE

19.904.9 Specific Standards for Institutions..and other Facilities not Covered by Other Standards
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Design Review

19.907.7 APPROVAL CRITERIA FOR DESIGN REVIEW

MILWAUKIE DOWNTOWN DESIGN GUIDELINES

Variance Review

19.911.4.B.1 APPROVAL CRITERIA for Variances

APPLICABLE DEVELOPMENT STANDARDS

The site is located in the DO Zone – Development Standards of MMC 19.310.4 apply. The development standards which need to be addressed through the variance review have been identified as follows. All others are met.

	Standard	Response
19.310.4, B.5 setbacks and Table 19.310.4		
	19.310.4, B.5 and Table 19.310.4 identify a maximum 10' setback, applied to the front setback (not to side and rear),	The requirement applies along Lake Road and SE 21 st Avenue. The proposed structures are setback between 0 feet and 50 feet from 21 st Avenue. Therefore, a Variance is required, and has been assessed below.
19.310.4, B.2 Floor Area Ratios and Table 19.310.4		
	19.310.4, B.2 and Table 19.310.4 identifies floor area ratio (FAR) requirements as a minimum of .5:1 and a maximum of 3:1.	The proposed structures are not enclosed structures and, as such, do not count towards FAR. Therefore, a Variance is required, and has been assessed below.

COMMUNITY SERVICE USE

The use is allowed in the DO Zone as a CSU-Utility, and is subject to the CSU Standards of MMC 19.904.4. As such, elements associated with this use such as the Station platform, \, nearby bike parking, railings, and associated landscaping are subject to review.

19.904.4 Approval Criteria

Criteria	Findings
<p>1. The building setback, height limitation, and off-street parking and similar requirements governing the size and location of development in the underlying zone are met. Where a specific standard is not proposed in the CSU, the standards of the underlying zone are met</p>	<p>Off-street parking requirements are being addressed through earlier- submitted Application #P-12-01. The Parking Determination Review application requests approval for no off-street parking, given the site’s use as a public transit facility. Bike parking for 6 covered racks (12 spaces) and 6 bike lockers (12 spaces) is identified in that application.</p> <p>Variations are necessary for building setback and floor area ratio requirements. All other underlying zone standards are met by-right.</p> <p>The variance requests have been addressed within this application, and have been found to be consistence with variance approval criteria.</p> <p>With approval of the variances, the criterion is therefore met.</p>
<p>2. Specific standards for the proposed uses as found in Subsections 19.904.7-11 are met</p>	<p>The activities have been assessed against the specific standards for the proposed uses as found in Subsections 19.904.7-11 (specifically, 19.904.9), and have been found to be met (see below),</p> <p>The criterion is met.</p>
<p>3. The hours and levels of operation of the proposed use are reasonably compatible with surrounding uses</p>	<p>The hours and levels of use of the station area are tied to the train activity, which is reflective of commuter needs. Trains are anticipated to run at intervals varying from 10 to 30 minutes, occurring between 5 a.m. and 1:30 a.m. The downtown area surrounding the station contains predominately commercial uses, with some residential and Community amenities (Milwaukie High School) located to the south and east respectively. The trains will service Downtown businesses, transport students to the high school, and daily commuters connecting to entertainment and employment centers both in Milwaukie and the surrounding region. These uses have varying hours that collectively coincide with the station’s operating hours.</p> <p>As such, the hours and level of the use enhance surrounding uses, and existing transportation network, and are therefore compatible with them.</p> <p>The criterion is therefore met.</p>

<p>4. The public benefits of the proposed use are greater than the negative impacts, if any, on the neighborhood</p>	<p>The public benefits resulting from the construction, completion, and utilization of the rail system are substantial, both locally and regionally. They include a more efficient transit system, reduced automobile usage and associated reduction in vehicle emissions and congestion, improved access and mobility for residents, a significant increase in local construction jobs, an accessible connection to the region’s light rail system, enhanced regional economic competitiveness, and eventual downtown economic benefits typically associated with transit-oriented development.</p> <p>Locally, benefits will include access to job corridors in the region readily accessible by light rail, and a reduction in congestion on 99E and other nearby roads.</p> <p>The only negative impacts anticipated are acoustic, which have been mitigated according to the Federal Transit Authority rules and guidelines.</p> <p>The criterion is met.</p>
<p>5. The location is appropriate for the type of use proposed</p>	<p>The station platform location has been vetted through a protracted Final Environmental Impact Statement (FEIS) process, as well as a substantial ongoing public outreach program and multiple public hearings, to ensure its location maximizes potential benefits, appropriately serves the downtown area, enhances bike and pedestrian amenities, connects to parks and open spaces in the area, serves community amenities, such as the high school, and is consistent with the Portland-Milwaukie Light Rail Locally Preferred Alternative adopted by the City of Milwaukie, Metro, and other regional partners. Additionally, the City of Milwaukie approved the South Downtown Concept Plan, which anticipates the future light rail station in this location.</p> <p>The site is located in the downtown area, which is designed to support - and be supported by – transit. As the site is currently vacant, there is no disruption of existing uses.</p> <p>The criterion is met.</p>

19.904.9 Specific Standards for Institutions...and other Facilities not Covered by Other Standards		
Criteria		Findings
A. Utilities, streets, or other improvements necessary for the public facility or institutional use shall be provided by the agency constructing the use.		All utilities and street improvements warranted by the project are being constructed as part of the project and are being provided by TriMet. Temporary utilities for staging and construction purposes including power and water will be removed following construction completion. The criterion is met.
B. When located in or adjacent to a residential zone, access should be located on a collector street if practicable. If access is to a local residential street, consideration of a request shall include an analysis of the projected average daily trips to be generated by the proposed use and their distribution pattern, and the impact of the traffic on the capacity of the street system which would serve the use. Uses which are estimated to generate fewer than 20 trips per day are exempted from this subsection.		As there is not permanent vehicular access, the criterion has been found to be inapplicable.
C. When located in a residential zone, lot area shall be sufficient to allow required setbacks that are equal to a minimum of $\frac{2}{3}$ the height of the principal structure. As the size of the structure increases, the depth of the setback must also increase to provide adequate buffering.		The location is not within a residential zone. The criterion is not applicable.
D. The height limitation of a zone may be exceeded to a maximum height of 50 ft provided Subsection 19.904.9.C of this subsection is met.		The maximum station shelter height is approximately 12'-6" from the surface of platform, therefore the structure does not exceed the height limit. The criterion is met.
E. Noise-generating equipment shall be sound-buffered when adjacent to residential areas.		There will be no noise generating equipment present on site. The criterion is met.
F. Lighting shall be designed to avoid glare on adjacent residential uses and public streets.		Lighting associated with the facility has been designed to meet all safety standards, while being placed and shielded to ensure light is focused downward and does not impact residences and public streets. The criterion is met

<p>G. Where possible, hours and levels of operation shall be adjusted to make the use compatible with adjacent uses.</p>	<p>The hours and levels of use of the station area are tied to the train activity.</p> <p>The downtown area is commercial with community amenities such as the high school and post office. The trains will bring customers to and from the area.</p> <p>As such, the hours and level of the use enhance surrounding uses and are therefore compatible with them.</p> <p>The criterion is met</p>
<p>H. A spire on a religious institution may exceed the maximum height limitation. For purposes of this subsection, "spire" means a small portion of a structure that extends above the rest of the roofline, or a separate structure that is substantially smaller than the main structure and extends above the roofline of the main structure. "Spire" includes but is not limited to ornamental spires, bell towers, other towers, minarets, and other similar structures or projections. The number of spires on a religious institution property is not limited, so long as the spires remain only a small portion of the area of the structures</p>	<p>No spire is being proposed by this project</p> <p>The criterion is not applicable</p>
<p>I. The minimum landscaping required for religious institutions is the lesser of 15% of the total site area and the percentage required by the underlying zone.</p>	<p>No religious institution is being proposed, and the DO zone has no minimum landscaping requirement.</p> <p>The criterion is not applicable</p>
<p>J. Park-and-ride facilities may be encouraged for institutions along transit routes that do not have days and hours in conflict with weekday uses (e.g., religious institutions or fraternal organizations). Such uses may be encouraged to allow portions of their parking areas to be used for park-and-ride lots.</p>	<p>This development will not include an off-street parking area.</p> <p>The criterion is not applicable</p>

VARIANCES

The site is located in the DO Zone and requires variances from two development standards of MMC 19.310.4.VARIANCE 1

Table 19.310.4 identifies a maximum 10' setback. As this setback applies to primary frontage (not to side and rear), the requirement applies along Lake Road and 21st Avenue. The proposed structures are setback between 0 feet and 50 feet from 21st Avenue.

19.911.4.B.1 Approval Criteria

Criteria	Findings
<p>1. Discretionary Relief Criteria a. The applicant's alternatives analysis provides, at a minimum, an analysis of the impacts and benefits of the variance proposal as compared to the baseline code requirements.</p>	<p>The station platform location is consistent with the FEIS. The station platform orientation must align parallel to the trackway to allow level boarding access for all patrons. In addition, the station location must accommodate a future city-led development on site.</p> <p>As a result, The station and associated structures will include structures set back further than ten feet from SE 21st. Along 21st, the station platform is setback approximately ninety feet from the intersection. This increased setback from the street is required to allow safe train operations near the intersection.</p> <p>Along Lake Road, the topography results in a station platform elevated above Lake Road grade requiring a substantial abutment wall, penetrated by a stair to provide station access to the south of the platform. The baseline code requirements are intended to ensure development connects to the street activity and contributes to urban enclosure. The platform layout maintains connections to existing and future streets, bike, and pedestrian amenities. The activity generated by the station will greatly enhance the vitality of the area, and will contribute to the creating an environment that will support new Downtown development activities along nearby streets.</p> <p>Additionally, The city and TriMet have agreed to a Memorandum of Understanding that guides the site layout to provide adequate space for future development of the site with a building. The City of Milwaukie and TriMet have committed to examine joint development opportunities that enhance the vitality of the downtown. The site layout retains approximately 8900 square feet of developable area on the two parcels. This area accommodates concept designs for a future development established by the city that will contribute to downtown economic revitalization, and increased Light Rail ridership.</p>

	<p>The concept design is consistent with the South Downtown Plan. Both the development concept design and South Downtown Plan have been endorsed by the City Council. After construction activities have ceased, and prior to completion of the PMLR project, TriMet will adjust the property boundaries of the site and work with staff to pursue a developer. The city will take ownership of the development parcel adjacent SE 21st. The future building is anticipated to meet all setback requirements.</p> <p>In the interim, the future development portion of the site will be landscaped to further contribute to the enhancement of the area. The enclosure that would be provided by required setbacks is fully provided on Lake Road by the abutment wall. The stairs, cantilevered platform area above, and the station platform itself all provide eyes on Lake Road, and increase safety and security while contributing to its sense of activity.</p> <p>Similarly, the proposed shelters and plazas will contribute to the activity and safety on SE 21st. Landscaping, street trees, and the bike shelter will contribute to the sense of urban enclosure along this street.</p> <p>The criterion is met.</p>
<p>b. The proposed variance is determined by the Planning Commission to be both reasonable and appropriate, and it meets one or more of the following criteria:</p> <ol style="list-style-type: none"> (1) The proposed variance avoids or minimizes impacts to surrounding properties. (2) The proposed variance has desirable public benefits. (3) The proposed variance responds to the existing built or natural environment in a creative and sensitive manner. 	<p>The station area contains a number of structures placed at various distances from SE 21st Avenue. The proposed variance results in minimal impact to adjacent parcels as the site is bounded on all sides: by streets to the north, east, and south, and the existing RR tracks to the west. Therefore the site is essentially isolated from adjacent properties.</p> <p>In addition, The structures are nominally visible to other properties on SE 21st Avenue, given their modest scale, transparent glass roofline, and distance, as well as being screened by a rich landscape of street trees along SE 21st Avenue, to be installed at the time of construction. The proposed variance results in multiple desirable public benefits. The configuration allows for level boarding access to the trains on traveling along the LRT trackway. In addition, the layout preserves future development potential for the site as adopted by the City Council.</p> <p>The site configuration also responds to the built and natural environment as the trackway LRT tracks and station align with the existing freight railroad. This minimizes impacts to adjacent parcels and natural area, while reflecting the current built amenities. In addition, two small plaza areas to the south and to the north contain art features, further enhance the area and highlight connections to the street, and provide pedestrian</p>

	<p>and bicycle amenities.</p> <p>Along Lake Road, the abutment wall, stair railings, cantilevered platform access above, all result in a treatment that activates the area and gracefully responds to the topography of the site, transitioning from Lake Road below to the station area with high-quality and thematically-appropriate materials that respond to the natural environment as well as the historical Milwaukie traditions.</p> <p>The criterion is met.</p>
<p>c. Impacts from the proposed variance will be mitigated to the extent practicable.</p>	<p>The impacts from the proposed variance will be the lack of structures immediately adjacent to SE 21st Avenue. The site layout mitigates the impacts as it preserves the ability for the future development on the site. The placement of bike facilities, art, and landscape areas in proximity to the street also anticipate and accentuate the future development of the site. Impacts are also mitigated through the use of quality materials, public art, and the activity that will result from the passenger activity.</p> <p>The criterion is met.</p>

VARIANCE 2

Table 19.310.4 identifies floor area ratio (FAR) requirements as a minimum of .5:1 and a maximum of 3:1. The proposed structures are not enclosed structures and, as such, do not count towards FAR.

19.911.4.B.1 Approval Criteria	
Criteria	Findings
<p>1. Discretionary Relief Criteria</p> <p>a. The applicant’s alternatives analysis provides, at a minimum, an analysis of the impacts and benefits of the variance proposal as compared to the baseline code requirements.</p>	<p>The station and associated structures will not result in building area that is measurable as FAR. The station is a unique use with desirable public benefits.</p> <p>The baseline code requirements are intended to ensure that development supports street activity and makes efficient use of land and available services.</p> <p>The activity generated by the station will greatly enhance the vitality of the area, and will contribute to the creating an environment that will support new downtown development activities along nearby streets. The increased use of transit will also allow for more efficient development of adjacent properties by minimizing parking demand.</p> <p>Additionally, the site layout makes efficient use of the site as it</p>

	<p>preserves a potential future building site that would continue to support efficient and viable future development, which may ultimately result in the site being developed to an even more contributory degree.</p> <p>Other broader public benefits resulting from the construction, completion, and utilization of the station, and rail system, are substantial, both locally and regionally. They include a more efficient transit system, reduced automobile usage and associated reduction in vehicle emissions and congestion, improved access and mobility for residents, a significant increase in local construction jobs, an accessible connection to the region's light rail system, enhanced regional economic competitiveness, and eventual downtown economic benefits typically associated with transit-oriented development.</p> <p>The local benefits directly associated with requiring a minimum FAR include supporting existing nearby development by providing increased pedestrian activity and an enlarged customer base,</p> <p>The number of people brought to the area because they use the light rail station will greatly exceed the number that would be produced by a building on the site meeting the FAR requirements, and this will ultimately support new development activities and associated benefits. Therefore the variance allowing the station construction is entirely consistent with the purpose of FAR standard, which is to ensure land is developed to an appropriate density that contributes to the activity and vitality of an area, and is suitable for the services available.</p> <p>The criterion is met.</p>
<p>b. The proposed variance is determined by the Planning Commission to be both reasonable and appropriate, and it meets one or more of the following criteria:</p> <p>(1) The proposed variance avoids or minimizes impacts to surrounding properties.</p> <p>(2) The proposed variance has desirable public benefits.</p> <p>(3) The proposed variance responds to the existing built or natural environment in a creative and sensitive</p>	<p>The station area contains a number of structures placed at various distances from SE 21st Avenue. The proposed variance results in minimal impact to adjacent parcels as the site is bounded on all sides: by streets to the north, east, and south, and the existing RR tracks to the west. Therefore the site is essentially isolated from adjacent properties.</p> <p>In addition, The structures are nominally visible to other properties on SE 21st Avenue, given their modest scale, transparent glass roofline, and distance, as well as being screened by a rich landscape of street trees along SE 21st.</p> <p>The proposed variance results in multiple desirable public benefits. The configuration allows for level boarding access to the trains on traveling along the LRT trackway. In addition, the layout preserves future development potential for the site as adopted by the City Council.</p> <p>The site configuration also responds to the built and natural</p>

<p>manner.</p>	<p>environment as the trackway LRT tracks and station align with the existing freight railroad. This minimizes impacts to adjacent parcels and natural area, while reflecting the current built amenities. In addition, two small plaza areas to the south and to the north contain art features, further enhance the area and highlight connections to the street, and provide pedestrian and bicycle amenities.</p> <p>Along Lake Road, the abutment wall, stair railings, cantilevered platform access above, all result in a treatment that activates the area and gracefully responds to the topography of the site, transitioning from Lake Road below to the station area with high-quality and thematically-appropriate materials that respond to the natural environment as well as the historical Milwaukie traditions.</p> <p>The criterion is met.</p>
<p>c. Impacts from the proposed variance will be mitigated to the extent practicable.</p>	<p>The impacts from the proposed variance will be the lack of occupiable development in the near term. These impacts have been mitigated through execution of a Memorandum of Understanding that defines City of Milwaukie and TriMet efforts to develop the site. In addition, the activity that will occur at the station, as well as the resulting overall enhancement of the immediate area and lack of impact to adjacent properties further mitigates impacts. This enhancement is furthered through the use of quality materials, and public art.</p> <p>The criterion is met.</p>

DESIGN REVIEW

The site is located in the Downtown Office zone and is subject to Downtown Design Review. Addressed below are the following:

- The applicable approval criteria of MMC 10.907.7
- The Condition of Approval from the preceding Design Review intended to be addressed at this time.
- The applicable Design Guidelines.

19.907.7 Approval Criteria for Design Review		
Criteria		Findings
A. Compliance with Title 19;		The applications requirements and development standards of Title 19 have been met, but for the required variances addressed above. With approval of the variances, the criterion is therefore met.
B. Substantial consistency with the Downtown Design Guidelines;		The project has been reviewed below, and has been found to be consistent with the applicable Downtown Design Guidelines The criterion is met.
C. Submittal of a complete application and applicable fee as adopted by the City Council.		The project has been reviewed for completeness; missing items have been identified, and are herein addressed. The criterion is met.

Condition of Approval from WG 11-11-01 (Previous Design Review		
Criteria		Findings
A. Provide more detailed information about the underside of the jump span (the “ceiling” of the room) and the light from the light fixtures that demonstrates how the light interacts with the ceiling to make for a comfortable, attractive, and safe pedestrian environment.		More detailed information about the design of the jump span, the lighting approaches, and the anticipated lighting results, have been provided (Exhibits P5, P6). The result is a well-integrated approach that results in a comfortable, attractive, and safe pedestrian environment.
B. Provide more detailed information about the light from the light fixtures that demonstrates how the location, output, and angle of the light enhances the proposed wall treatments and provides for a comfortable, attractive, and safe pedestrian environment.		More detailed information about the specific light fixtures, and the anticipated lighting results, have been provided (Exhibits P5, P6). The result is a well-integrated approach that enhances the proposed wall treatments and results in a comfortable, attractive, and safe pedestrian environment. This portion of the Condition is therefore met.

<p>C. Provide a less modern and utilitarian light fixture option. Specifically, provide detailed information that demonstrates how the style and color of the light fixture and the method of mounting compliments the style of the proposed wall treatments and provides for a comfortable, attractive, and safe pedestrian environment.</p>	<p>New light fixtures have been identified and proposed that are well-suited for the environment, compliment the proposed wall treatments, and results in a comfortable, attractive, and safe pedestrian environment.</p> <p>This portion of the Condition is therefore met.</p>
<p>D. Provide illustrations and analysis demonstrating that the proposed lighting achieves the following during both daytime and nighttime conditions:</p> <ul style="list-style-type: none"> • Uniform lighting of the sidewalk • Minimal glare • Minimal deep shadows beneath the structure 	<p>Illustrations and analysis (Exhibits P5, P6) have been provided that demonstrate the new lighting approach and its success in achieving: uniform sidewalk lighting, minimized glare, and minimal deep shadows beneath the structure.</p> <p>This portion of the Condition is therefore met.</p>
<p>E. Explore other energy efficient and low-pollutant lighting options with a focus on comparing fluorescent lighting with LED and other feasible lighting options. Provide a memo that summarizes key findings and includes a rationale for the final lighting selection.</p>	<p>The most efficient fixtures available that meet the other lighting goals of the Condition have been selected and proposed.</p> <p>A memo is provided as Exhibit P19 more fully addressing each component of this condition.</p> <p>This portion of the Condition is therefore met.</p>

DESIGN GUIDELINES: MILWAUKIE CHARACTER

Guideline	Findings
<p><u>Reinforce Milwaukie's Sense of Place</u></p> <p>Strengthen the qualities and characteristics that make Milwaukie a unique place.</p>	<p>Milwaukie's history is largely formed and defined by its natural surroundings and unique transportation systems. The project's parallel relationship to the existing rail trestle reinforces this transportation/technological history. Light rail is the steamship of the 21st century, and will provide Milwaukie with a new link to the region. It will provide unique views to the natural and urban areas that are Milwaukie today and will reinforce Milwaukie's qualities and characteristics in the future.</p> <p>As a result of public participation efforts, including public workshops, meetings with officials, and input from the Design and Landmarks Committee, numerous elements have been integrated into the design of the station that are specifically responsive to Milwaukie's unique qualities and characteristics. These elements include: stone-patterning of the various wall treatments (including those adjacent to the future platform), bollard and furniture treatments appropriate to Milwaukie's palette, pedestrian scale street light standards consistent with Milwaukie's current pattern, custom rail treatments incorporating detail, complimentary landscape design, and motifs specific to Milwaukie. The guideline is met.</p>
<p><u>Integrate the Environment</u></p> <p>Building design should build upon environmental assets.</p>	<p>The design of the station area, respects the character of the nearby natural area through simple detailing, material selection, and landscaped areas. The cantilevered platform access to the south will afford unique views to the environmental assets of Kellogg Lake and Kronberg Park, as well as to the Willamette River and hills beyond.</p> <p>Removal of invasive plants currently on the vacant site, and landscaping with appropriate replacements, will further enhance the immediate environmental quality.</p> <p>The inclusion of a water quality facility, where art is used to both highlight and celebrate stormwater, raises awareness of water quality at Kellogg Lake, south of the station, and the Willamette River to the west. The art is reflective of a waterfall and natural streambed. In addition, access and circulation patterns to the station facilitate enhanced pedestrian connections to existing parks and natural areas.</p> <p>Though the station does not consist of, or include, a building, the guideline is met.</p>

<p><u>Promote Linkages to Horticultural Heritage</u></p> <p>Celebrate Milwaukie’s heritage of beautiful green spaces.</p>	<p>The station area, by making a visual connection to Kellogg Lake and Kronberg Park, provides new and unique views to those areas, and celebrates those spaces.</p> <p>The design of the station also acknowledges and celebrates Milwaukie’s green space heritage, through its simple detailing, artistic representation, sympathetic materials and colors, incorporated landscape, and environmental art pieces.</p> <p>Landscape plantings on site have been designed to provide visual interest and uniqueness to the city. Careful consideration has been given to the planting palate to select unique foliage textures, colors, and flowers so that these planted spaces will help extend the existing character and uniqueness of this area while adding to planting diversity.</p> <p>All plants selected for use in stormwater planters meet city standards for these types of facilities and will tolerate periods of inundation. Dogwood trees have been located in areas where appropriate and street tree species have been selected in accordance with the CoM downtown master plan for street trees.</p> <p>The guideline is met.</p>
<p><u>Establish or Strengthen Gateways</u></p> <p>Projects should use arches, pylons, arbors or other transitions to mark special or primary entries and/or borders between public and private spaces.</p>	<p>The carefully designed station platform is accentuated on all sides by railings with openings at designated safe entry points. The 42” high metal railings with historic Milwaukie motif demarcate the site and guide users to designated entry points. These access points are marked by small glass roofed shelters that house the Ticket vending machines. Signage and inlaid bronze lettering at the base of the ramps to the platform further delineate the threshold to the station area. The cantilevered platform access also serves as a promontory, connecting the station visually to public and private spaces beyond.</p> <p>The stone-patterned abutment walls, patterned masonry, landscaped plazas, unique Milwaukie-specific ornamental handrails, street enhancements, and public art; all serve to transition gracefully between the public station area and the surrounding private areas and properties.</p> <p>The guideline is met.</p>

<p><u>Consider View Opportunities</u></p> <p>Building designs should maximize views of natural features or public spaces.</p>	<p>The station platform and platform access will result in new and very different viewpoints of Kellogg Lake, Kronberg Park, and views to the river and Greenway beyond, for the many passengers riding it each day. The plazas include seating, which allows viewing from, and between, these new public spaces.</p> <p>Though the project does not include building design, to the extent it is applicable, the guideline is met.</p>
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<p><u>Use Architectural Contrast Wisely</u></p> <p>Contrast is essential to creating an interesting urban environment. Used wisely, contrast can provide focus and drama, announce a socially significant use, help define an area and clarify how the downtown is organized.</p>	<p>The use of Milwaukie Black is proposed on all street elements and railings. However certain elements of the station shelters and the light poles are proposed as a bead blasted stainless steel. While this aligns with TriMet standards, the design offers an interesting contrast to the black to accentuate the platform area. When combined with the glass roof of the shelters, artwork, and railing design, the platform becomes a distinctive community amenity that is still easily recognized as part of the Light rail system. The simple detailing of the abutment wall, landscape plantings, and stairs along Lake Road add dramatic elements that will pronounce permanence and welcoming appropriate to this significant public work.</p> <p>The small public plazas - with associated landscaping, surface treatments, and furniture – will further serve to define the site as a public amenity, while providing a graceful transition between the neighborhood and the platform area.</p> <p>The south platform access, serving as a promontory overlooking Kellogg Lake and Kronberg Park, will further pronounce the station’s public purpose in a dramatic-yet-integrated manner.</p> <p>The guideline is met.</p>
<p><u>Integrate Art</u></p> <p>Public art should be used sparingly. It should not overwhelm outdoor spaces or render building mere backdrops. When used, public art should be integrated into the design of the building or public open space.</p>	<p>TriMet’s public art program installs a variety of artwork at locations along its light rail lines. The art is developed to be sensitively integrated, and specifically respectful of this guideline. The art has been vetted through the Public Art Advisory Committee, with input from the committed Milwaukie public and respective City Commissions in order to ensure the result is appropriate and contributory.</p> <p>The station art consists of two “milling wheels” at the north end near the bike shelters, carved “tree” columns under the station shelter, and a carved streambed and waterfall at the south end, included as part of the storm water treatment landscaping. These respective art elements are highly specific to the site, tied thematically to Milwaukie heritage.</p> <p>To the extent this guideline is applicable, it is met.</p>

DESIGN GUIDELINES: PEDESTRIAN EMPHASIS

Guideline	Findings
<p><u>Reinforce and Enhance the Pedestrian System</u></p> <p>Barriers to pedestrian movement and visual and other nuisances should be avoided or eliminated, so that the pedestrian is the priority in all development projects.</p>	<p>The station area preserves existing pedestrian paths, and creates a number of additional and well-defined new paths.</p> <p>The sidewalk along SE 21st will be widened to 16' to improve circulation. Pedestrian scaled lighting will be introduced. There are specifically introduced guardrails and signal control devices designed to guide pedestrian movement, protecting the pedestrian from grade changes and allowing track crossings at appropriate and safe locations. These features combine to enhance the focus on the pedestrian as the priority.</p> <p>A universal primary access is provided at the north end of the station, which provides direction connections to the Bus transfers at 21rst and Washington, as well as the adjacent high school, businesses, and new and existing pedestrian amenities along the streets. In addition, Stairs from Lake Road are used to overcome significant grade differences, to introduce a secondary pedestrian pathway to the station. Guard and hand Rails throughout the project area are designed in a manner that provides paths and visual cues to move them safely and efficiently about the site.</p> <p>All associated elements maintain a high degree of quality and craftsmanship. These areas are well lit and avoid obstructions, further prioritizing the pedestrian.</p> <p>Overall, the project results in a well-defined visual attraction that will enhance the pedestrian experience.</p> <p>The guideline is met.</p>
<p><u>Define the Pedestrian Environment</u></p> <p>Provide human scale to the pedestrian environment, with variety and visual richness that enhance the public realm.</p>	<p>The station platform and shelters are modest in scale. The shelters, paving materials, wall materials, guardrail designs, landscaping, plazas, and associated furniture all contribute to the variety and richness of the area.</p> <p>Along Lake Road, the masonry abutment walls are patterned to a pedestrian scale. Highly detailed and integrated stair and rails enhance this portion of the public realm.</p> <p>The views to and from the cantilevered platform access further add to the richness and enhancement of the</p>

		<p>public realm.</p> <p>This guideline is met.</p>
<p><u>Protect the Pedestrian from the Elements</u></p> <p>Protect pedestrians from wind, sun and rain.</p>		<p>The station shelter designs provide windscreens with integrated benches, and a widened roof to protect pedestrians from wind and rain. The glass roof is coated for UV protection from the sun. TVM shelters are also provided as shelter for patrons while purchasing fare.</p> <p>The guideline is met.</p>
<p><u>Provide Places for Stopping and Viewing</u></p> <p>Provide safe, comfortable places where people can stop to sit and rest, meet and visit with each other, and otherwise enjoy the downtown surroundings.</p>		<p>The station and TVM shelters will provide places to gather sheltered from the weather, and the station platform includes benches. Additional city standard benches are provided on Adams near the proposed bike locker amenities. The introduction of plazas around the station area will provide places to meet as well. The integrated art areas will certainly become landmarks for meeting up with others, as well as an opportunity to enjoy the art in its own right.</p> <p>The guideline is met.</p>
<p><u>Create Successful Outdoor Spaces</u></p> <p>Spaces should be designed for a variety of activities during all hours and seasons.</p>		<p>The variety and placement of plazas, and the additional gathering areas such as the cantilevered platform access and the station area, results in a flexible layering of spaces that will support various uses during all hours and all seasons. Art and plaza spaces will provide energy and interest along new paths at all hours. Landscaped areas will change with the seasons.</p> <p>The guideline is met.</p>
<p><u>Integrate Barrier-free Design</u></p> <p>Accommodate handicap access in a manner that is integral to the building and public right-of-way and not designed merely to meet minimum building code standards.</p>		<p>Tri Met consistently includes exceptional barrier free design in all of its projects. The station is a part of a region wide accessible transportation network, and all elements associated with the project will exceed minimum standards, both technically and aesthetically. The station area provides level boarding for all patrons, and a primary access point that is universal and connects directly to the proposed on-street LIFT space, bus stops at SE 21st and Washington, and existing sidewalk and street networks. While the north end is a stairway, a ramp option was not deemed viable at this location. Given the significant grade changes at the south end of the platform, a ramped access would result in a longer path of travel for patrons, than if they went to the primary access at the north. The TVM landing and</p>

	<p>connections between the proposed and future platforms provide level access in anticipation of the ADA access from the future building development.</p> <p>In addition, TriMet has vetted the design with the Citizens for Accessible Transportation Committee, a vital resource for determining appropriate accessible station design throughout the Light Rail system.</p> <p>This guideline is met.</p>
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DESIGN GUIDELINES: ARCHITECTURE

Guideline	Comments
<p><u>Wall Materials</u></p> <p>Use materials that create a sense of permanence.</p>	<p>TriMet consistently applies the use of long lasting, high quality materials to ensure low maintenance costs for its facilities and enhance the quality of the communities. In this case, the concrete, bead blasted stainless steel, glass, painted metal, and hardy landscape plants have been selected and utilized in a manner that will ensure that the structure is of a consistent and well maintained quality, both physically and visually for the life of the project.</p> <p>The guideline is met.</p>
<p><u>Wall Structure</u></p> <p>Use scale-defining devices to break up the longitudinal dimensions of buildings, creating a comfortable sense of enclosure by establishing an uninterrupted street edge.</p>	<p>Shelter structures are highly detailed and articulated, in order to provide comfortable protection and define gathering areas in a way that is pedestrian scaled and finished. Landscape, art, a bike shelter, and street trees, further reinforce the street edge.</p> <p>Although, this guideline applies exclusively to buildings, the guideline is met to the extent applicable.</p>
<p><u>Silhouette and Roofline</u></p> <p>Create interest and detail in silhouette and roofline.</p>	<p>The rooflines of the shelters will be enhanced both by their form, and by their modulated and fine-scaled detail, whether viewed from across the site, or from down below.</p> <p>The roof material is glass, with structural steel roof supports painted black. The black color allows the structure to recede, yet the transparency of the glass allows the materials to visibly accentuate the roofline. These elements will be further enhanced by the more subtle play of light and shadow and color that will result from the contrast in color and texture</p> <p>This guideline is met.</p>

<p><u>Green Architecture</u></p> <p>New construction or building renovation should include sustainable materials and design.</p>	<p>TriMet consistently uses long lasting, high quality materials to ensure low maintenance costs for its facilities and enhance the quality of the communities. In this case, the concrete, glass, painted metal and Stainless steel have been designed and detailed in a manner that will ensure that the structures are sustainable with low life cycle costs. The steel elements, as well as the concrete, will include recycled content, and have been structurally designed to be as efficient as possible. LED lights are being utilized for the jump-span lighting, and platform lighting, to provide high efficiency lighting throughout the project.</p> <p>Finally, a majority of the materials are potentially recyclable – most readily the predominant use of steel – should the project ever have an end-of-use.</p> <p>The guideline is met.</p>
<p><u>Building Security</u></p> <p>Buildings and site planning should consider and employ techniques that create a safe environment.</p>	<p>Safety is a prime design consideration for Tri Met in all its projects. Crime Prevention Through Environmental Design (CPTED) principles are followed throughout the station area design. TriMet’s safety and security committee has reviewed the project and determined that in both construction and use, the design will contribute to a visibly open, safe, and inviting environment. TriMet has included intrusion detection on the bridge adjacent the platform, to deter trespass, and will install security cameras on the platforms for added security. In addition, lighting has been provided that exceed safety standards and maintain uniformity on the platform. Signage, signals, and railings have been included in the design, with the track crossing circulation oriented toward the direction of train travel to where possible, so patrons can see and acknowledge oncoming trains.</p> <p>The station platform has been cited to ensure safe train operations for adjacent track crossings at the street level.</p> <p>This guideline is met.</p>

DESIGN GUIDELINES: LIGHTING

Guideline	Findings
<p><u>Exterior Building Lighting</u></p> <p>Architectural lighting should be an integral component of the facade composition.</p>	<p>This guideline is intended to apply typically to buildings when implementing an architectural lighting plan. The architectural lighting the station is limited to lighting integrated into the design of the shelters. There is street and platform lighting placed about the overall station area that has been selected and composed to integrate into overall context. The lighting under and about the jump span has been further refined in response to the DLC's guidance and associated Condition of Approval, resulting in a highly-integrated approach that will contribute to the quality and safety of this evolved lighting approach.</p> <p>The guideline is met.</p>
<p><u>Parking Lot Lighting</u></p> <p>Ornamental streetlights should be used to be compatible with downtown streetlight standards identified in the Public Area Requirements.</p>	<p>Proposed ornamental streetlights are consistent with downtown streetlight standards.</p> <p>The guideline is met.</p>
<p><u>Landscape Lighting</u></p> <p>Lighting should be used to highlight sidewalks, street trees and other landscape features. Landscape lighting is especially appropriate as a way to provide pedestrian safety during holiday periods.</p>	<p>The sidewalks and other pedestrian routes have lighting placed to maximize visibility and exceed safety standards, while minimizing glare.</p> <p>In response to the DLC's guidance and associated Condition of Approval, particular attention has been paid to developing a lighting program under and around the jump span the lights the sidewalks evenly and effectively.</p> <p>Lights along the stairs from Lake Road are sensitively integrated to enhance the safety and experience of that important path.</p> <p>Lighting is also included to accentuate the art pieces.</p> <p>Together, these lighting amenities highlight the station area and provide safe, uniform lighting for the site.</p> <p>The guideline is met.</p>

<p><u>Sign Lighting</u></p> <p>Sign lighting should be designed as an integral component of the building and sign composition.</p>	<p>Signs on site are to be directional and informative in nature, and modest in scale. They are not to be interiorly lit, as they are too small to warrant integrated lighting. However station signs are located on Light poles and placed to be adequately illuminated by the ambient light resulting from pole-mounted fixtures above. The signs themselves are carefully placed and mounted to be both legible by patrons on the platforms as well as trains, and well integrated with the various elements to which they are attached. The digital displays are internally lit by definition, and are well integrated into the respective shelter design.</p> <p>The guideline is met.</p>
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DESIGN GUIDELINES: SIGNS

Guideline	Findings
<p><u>Wall Signs</u></p> <p>Signs should be sized and placed so that they are compatible with the building's architectural design.</p>	<p>Signs on site are to be directional and informative in nature, and modest in scale. The signs are carefully placed and mounted to be both legible, and well integrated with the various elements to which they are attached. The digital displays are well integrated into the respective shelter design.</p> <p>The guideline is met.</p>
<p><u>Hanging or Projecting Signs</u></p> <p>Hanging signs should be oriented to the pedestrian, and highly visible from the sidewalk.</p>	<p>Station signage is oriented both toward platform entrances and the approaching trains, as well toward a train stopped at the platform for easy station identification. All are easily visible and highly recognized as part of the Light Rail system.</p> <p>The guideline is met.</p>
<p><u>Information and Guide Signs</u></p> <p>Directional signs should be small scale and of consistent dimensions, and located in a visually logical order. These signs also should provide on-site directional information.</p>	<p>Signs on site are to be directional and informative in nature, modest in scale, and placed in a visually logic order to guide passengers. They are scaled to be no larger than necessary, but appropriately legible, and consistent with station signage throughout the light rail system.</p> <p>The guideline is met.</p>

Date: April 15, 2012
To: Li Aligood, City of Milwaukie Senior Planner
From: Jeff Joslin
Subject: Response to Condition 6 of Case No. WG-11-01, Pertaining To Jump Span Lighting Options

Background

TriMet received final land use approval from the City of Milwaukie on January 17, 2012 for a light rail bridge over Kellogg Lake that spans between Lake Road and the planned bridge abutment on the south side of SE McLoughlin Blvd. This memo serves to satisfy Condition 6, and particularly 6E. The condition reads as follows with the relevant portion of 6E underlined:

6. The DLC requested more information and different light fixture options for lighting underneath the jump span than what was presented by the applicant at the Oct 17 DLC design review meeting. The applicant shall resubmit this design item for consideration during the land use proceedings for the Milwaukie Light Rail Station. A summary of the DLC's design direction to the applicant is as follows:
 - A. Provide more detailed information about the underside of the jump span (the "ceiling" of the room) and the light from the light fixtures that demonstrates how the light interacts with the ceiling to make for a comfortable, attractive, and safe pedestrian environment.
 - B. Provide more detailed information about the light from the light fixtures that demonstrates how the location, output, and angle of the light enhances the proposed wall treatments and provides for a comfortable, attractive, and safe pedestrian environment.
 - C. Provide a less modern and utilitarian light fixture option. Specifically, provide detailed information that demonstrates how the style and color of the light fixture and the method of mounting compliments the style of the proposed wall treatments and provides for a comfortable, attractive, and safe pedestrian environment.
 - D. Provide illustrations and analysis demonstrating that the proposed lighting achieves the following during both daytime and nighttime conditions:
 - Uniform lighting of the sidewalk
 - Minimal glare
 - Minimal deep shadows beneath the structure
 - E. Explore other energy efficient and low-pollutant lighting options with a focus on comparing fluorescent lighting with LED and other feasible lighting options. Provide a memo that summarizes key findings and includes a rationale for the final lighting selection.

The narrative response (key findings) is below, in response to each of the components of the Condition. Associated Exhibits (Exhibits P5A, P5B, P6, P6A, P6B, P6C, P6D, and 6E) are included in the land use application CSU 12-03 to fully describe and assess these lighting elements in response to all aspects of the condition.

Condition and Key Findings

- A. Provide more detailed information about the underside of the jump span (the “ceiling” of the room) and the light from the light fixtures that demonstrates how the light interacts with the ceiling to make for a comfortable, attractive, and safe pedestrian environment.

Findings:

The proposed lighting solution utilizes linear LED luminaires mounted at intervals in recesses in the concrete slabs that span Lake Road, as well as linear LED wall-wash fixtures at perimeter walls. The solution provides an uncluttered lighting design that will provide uniform light levels under the bridge with minimal glare. Light reflected off of the adjacent walls, roadway, and sidewalks will create a glow on the ceiling of the space, creating, at night, a frame of light that reinforces the sense of gateway already established by the jump span walls, piers, and ceiling. The well-lit environment will unify the space and create a sense of safety. The pattern and texture of joints and recesses, and the interesting pattern of lights at the underside of the jump span, will create a rich visual environment, enhancing the pedestrian experience.

- B. Provide more detailed information about the light from the light fixtures that demonstrates how the location, output, and angle of the light enhances the proposed wall treatments and provides for a comfortable, attractive, and safe pedestrian environment.

Findings:

The wall-wash light fixtures will provide light on the patterned walls of the concrete abutment and piers, highlighting the architectural treatment by accentuating the texture of the wall surface. The location and spacing of the fixtures is designed to cast an even light across the walls, avoiding dark areas or excessively bright areas, contributing to a comfortable and safe environment.

- C. Provide a less modern and utilitarian light fixture option. Specifically, provide detailed information that demonstrates how the style and color of the light fixture and the method of mounting compliments the style of the proposed wall treatments and provides for a comfortable, attractive, and safe pedestrian environment.

Findings:

The minimal dimensions of the light fixtures, and their mounting in recesses in the jump span slabs, allow the individual fixtures to recede and become part of the larger composition of textures and surfaces of the jump span elements. The pattern of parallel lighting recesses alternating with the joints between the concrete slabs of the jump span, along with the pattern

of the light fixtures themselves, creates a visual richness and variety in the ceiling of the jump span that complements the texture of the adjacent walls and is sympathetic to the pattern and character of the bridge art proposal.

- D. Provide illustrations and analysis demonstrating that the proposed lighting achieves the following during both daytime and nighttime conditions:

- Uniform lighting of the sidewalk

Findings:

Photometric analysis of the proposed lighting layout shows uniform light levels at the sidewalks.

- Minimal glare

Findings:

The uniform light levels shown in the photometric analysis of the proposed lighting layout will prevent the glare that can occur with contrasting light levels.

- Minimal deep shadows beneath the structure

Findings:

The even light levels on roadway, sidewalk, wall, and ceiling surfaces will eliminate deep shadows.

- E. Explore other energy efficient and low-pollutant lighting options with a focus on comparing fluorescent lighting with LED and other feasible lighting options. Provide a memo that summarizes key findings and includes a rationale for the final lighting selection.

Findings:

LED lighting fixtures are among the most efficient light fixtures currently available on the market. They are significantly more energy efficient than fluorescent fixtures when comparing equivalent light output. LED lamps last significantly longer than lamps of other lighting types, requiring minimal maintenance. Their minimal size makes them material efficient, and allows lighting solutions that enhance, without competing with, architectural and landscape spaces.

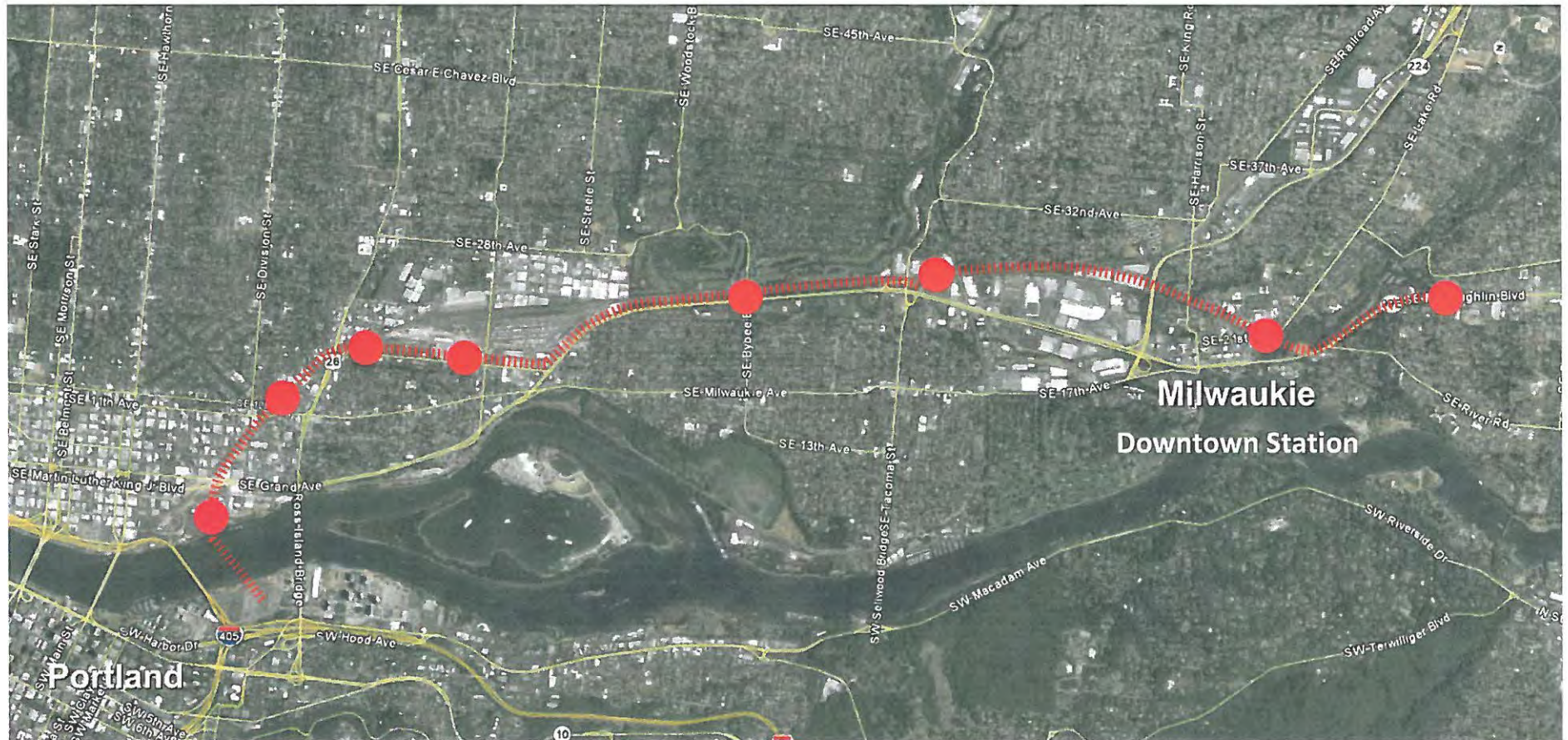
Conclusion

As the lighting elements discussed in this memo have already been vetted with the Design and Landmarks Committee and found to be appropriately response, additional detailed information has been provided, and the memo itself is here provided, Approval is requested determining compliance with Condition 6 of WG-11-01.

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APR 26 2012

CITY OF MILWAUKIE
PLANNING DEPARTMENT

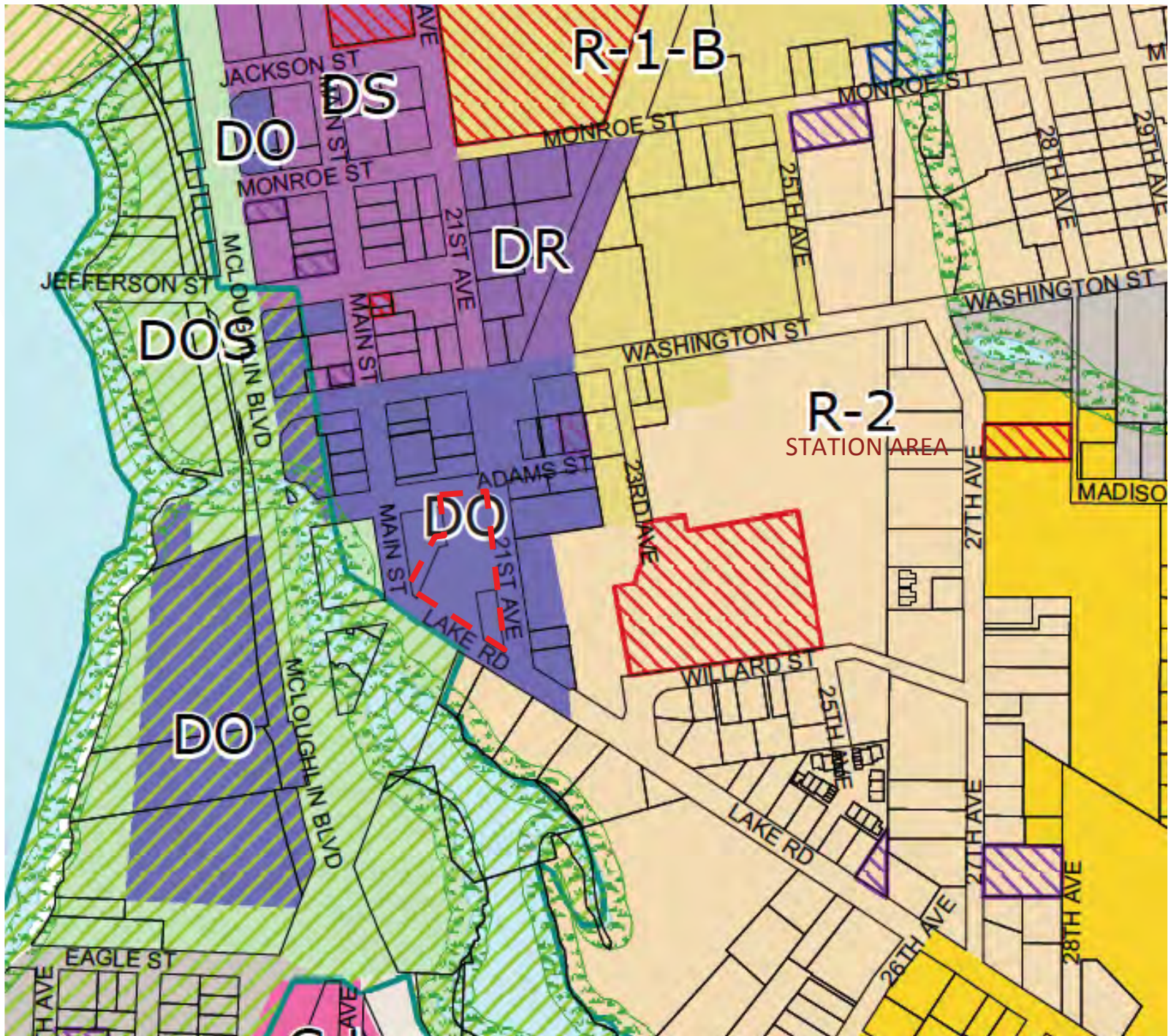


Downtown Station In Context of Overall Line

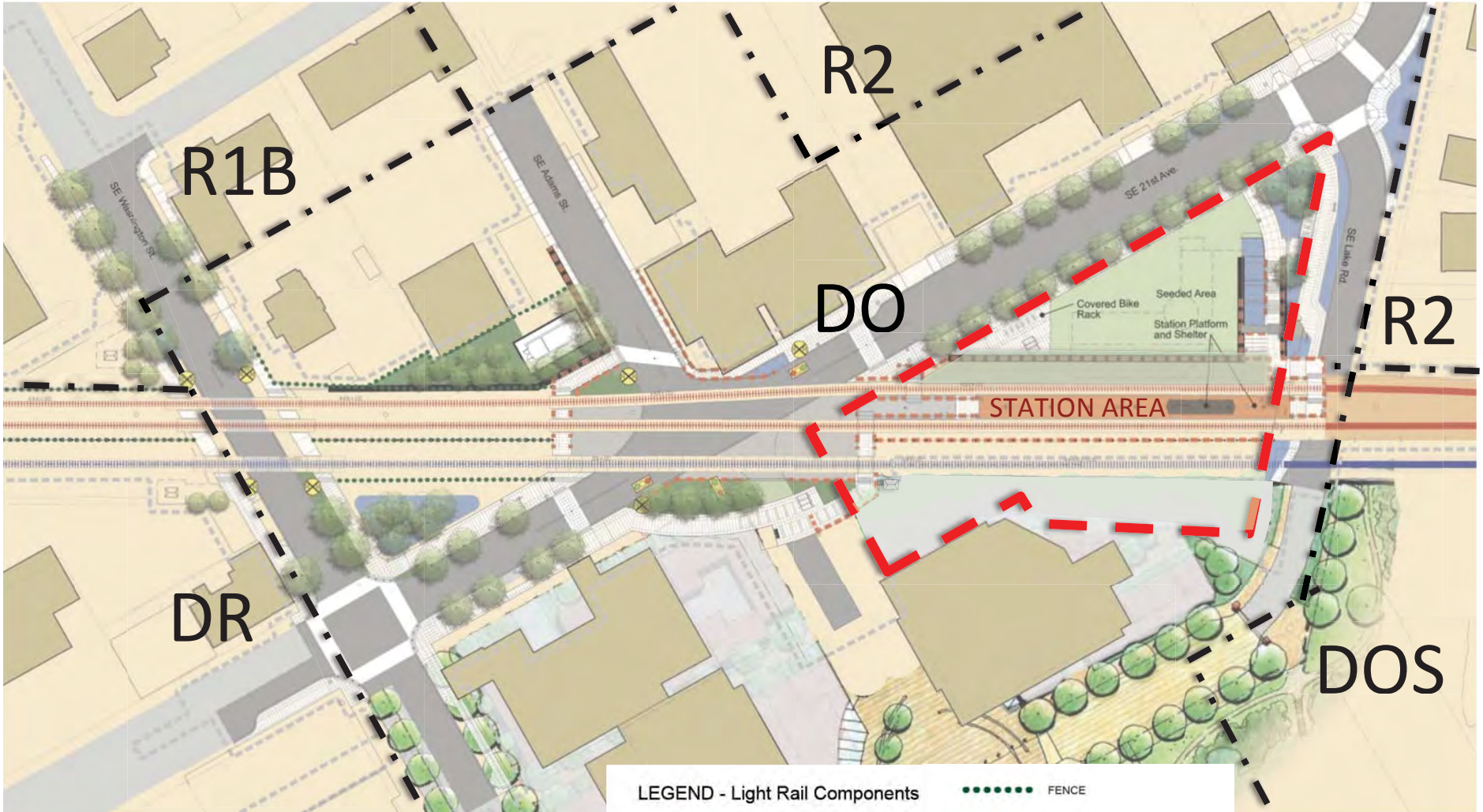
Exhibit O 1



Downtown Station and Adjacent Stations



Site Location and Downtown Zoning

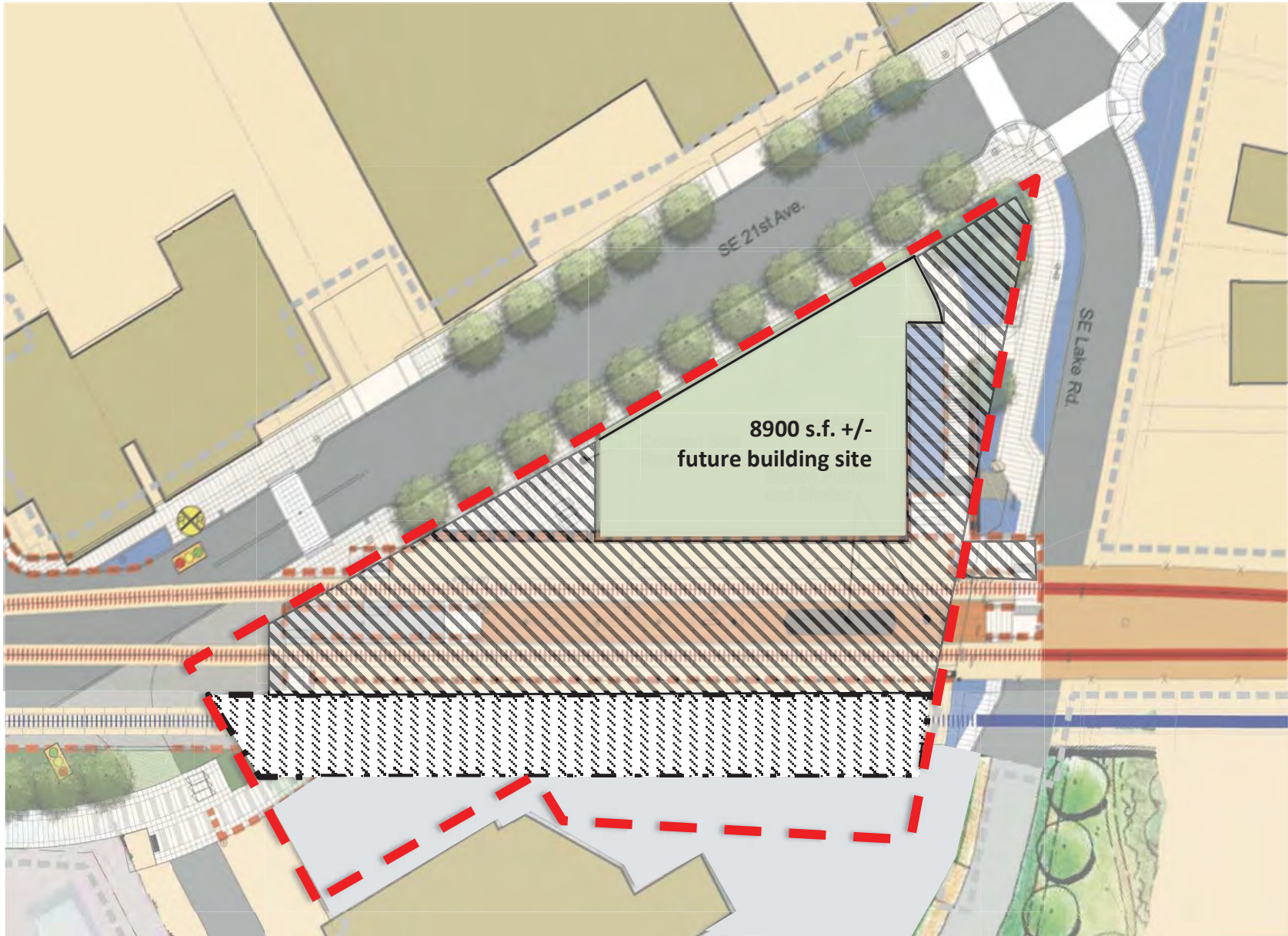


Affected Lot Boundary

LEGEND - Light Rail Components

	HEAVY RAIL & CROSSING		FENCE
	LIGHT RAIL LINE & CROSSING		RAILING
	EXISTING STREETS		STATION PLATFORM / SHELTER
	STREET IMPROVEMENTS		
	EXISTING BUILDING		
	PROPOSED BUILDING		
	RETAINING WALL		
	SAFETY WALL		

Zoning Approximations – Immediate Station Vicinity



Area of Review Focus



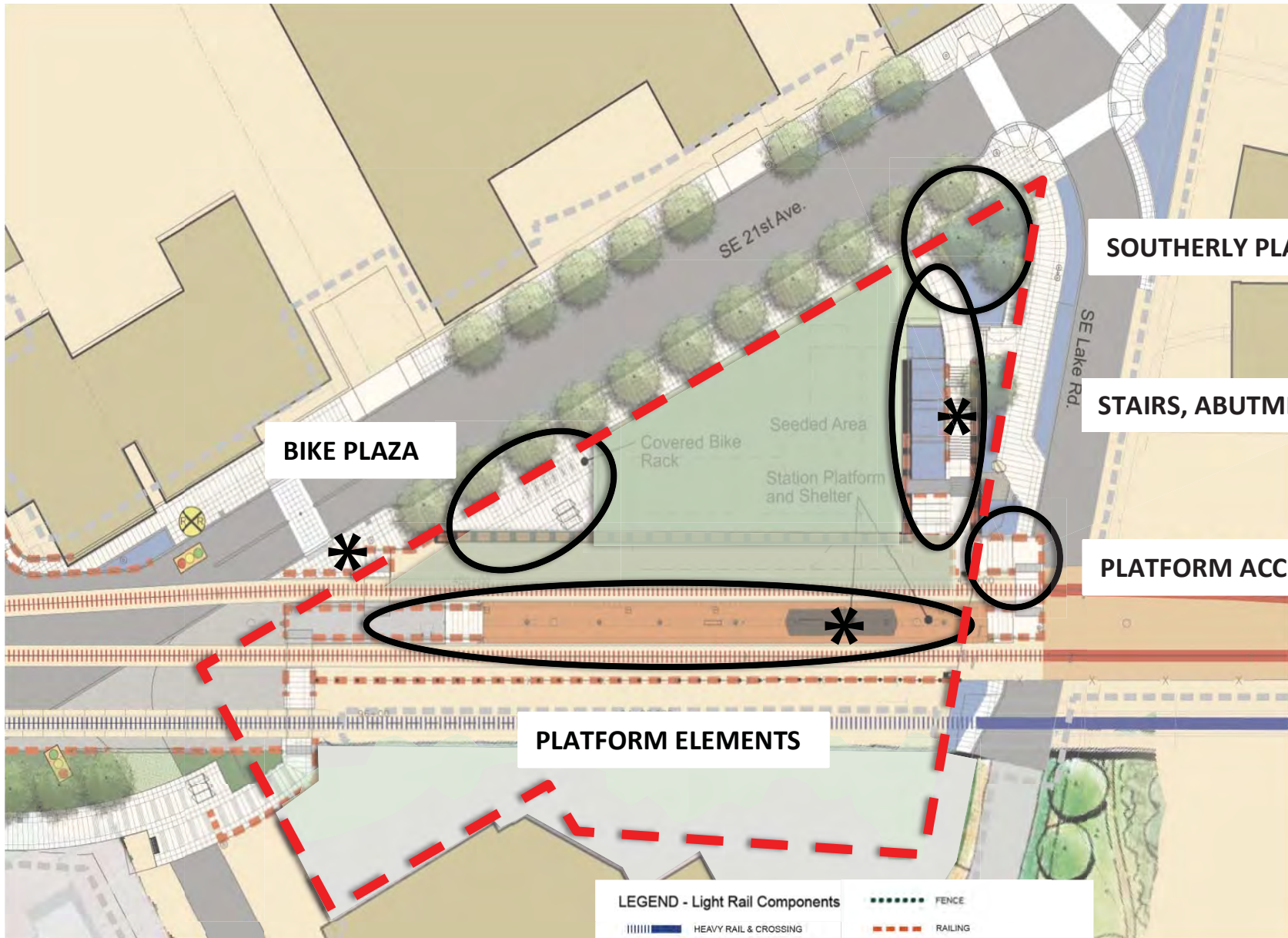
Area of Site Within Railroad Corridor



Affected Lot Boundary

Review Focus

Exhibit O 5



Affected Lot Boundary

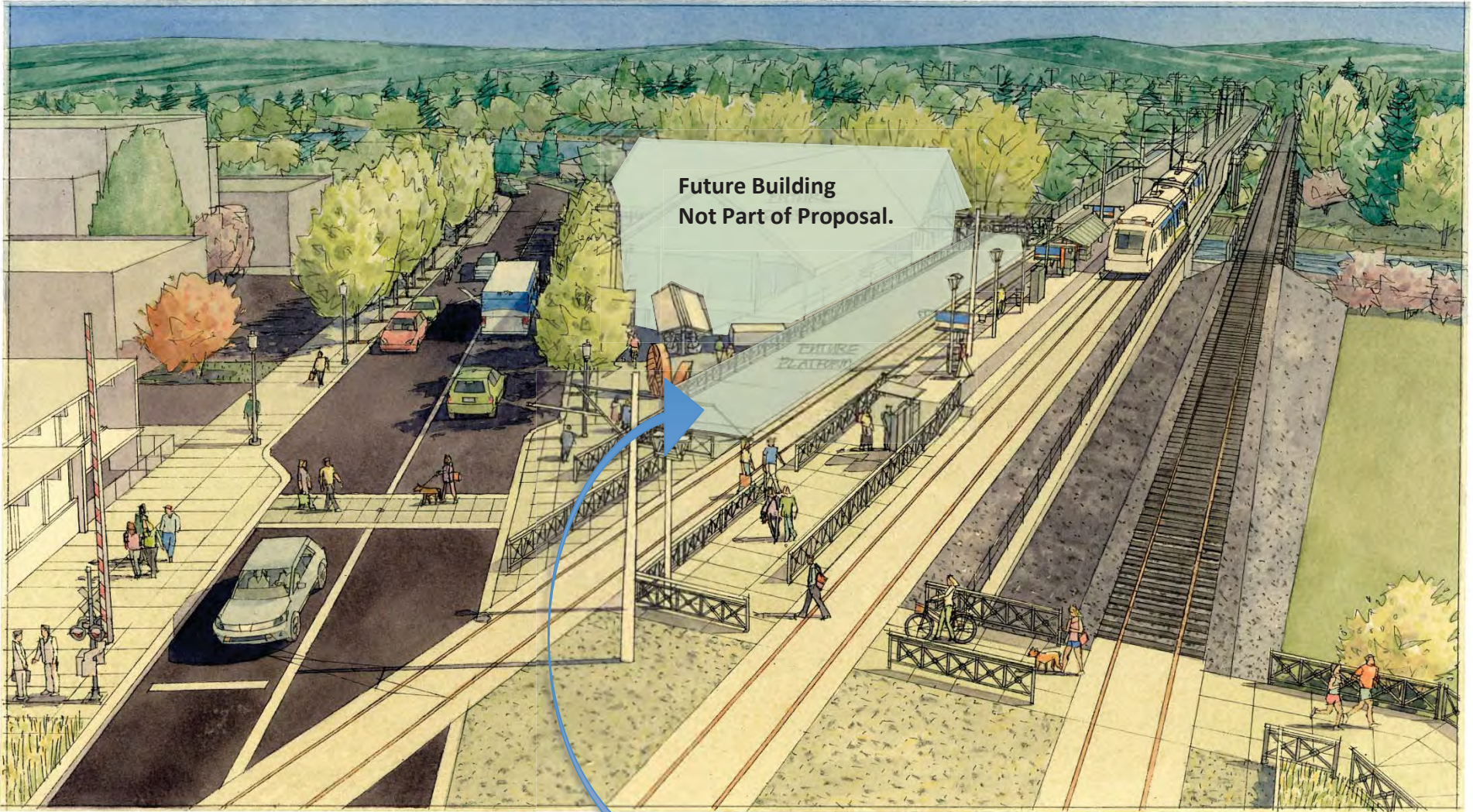
Art Locations (not in review – for reference only)

LEGEND - Light Rail Components

	HEAVY RAIL & CROSSING		FENCE
	LIGHT RAIL LINE & CROSSING		RAILING
	EXISTING STREETS		STATION PLATFORM / SHELTER
	STREET IMPROVEMENTS		
	EXISTING BUILDING		
	PROPOSED BUILDING		
	RETAINING WALL		
	SAFETY WALL		

Primary Elements of Review

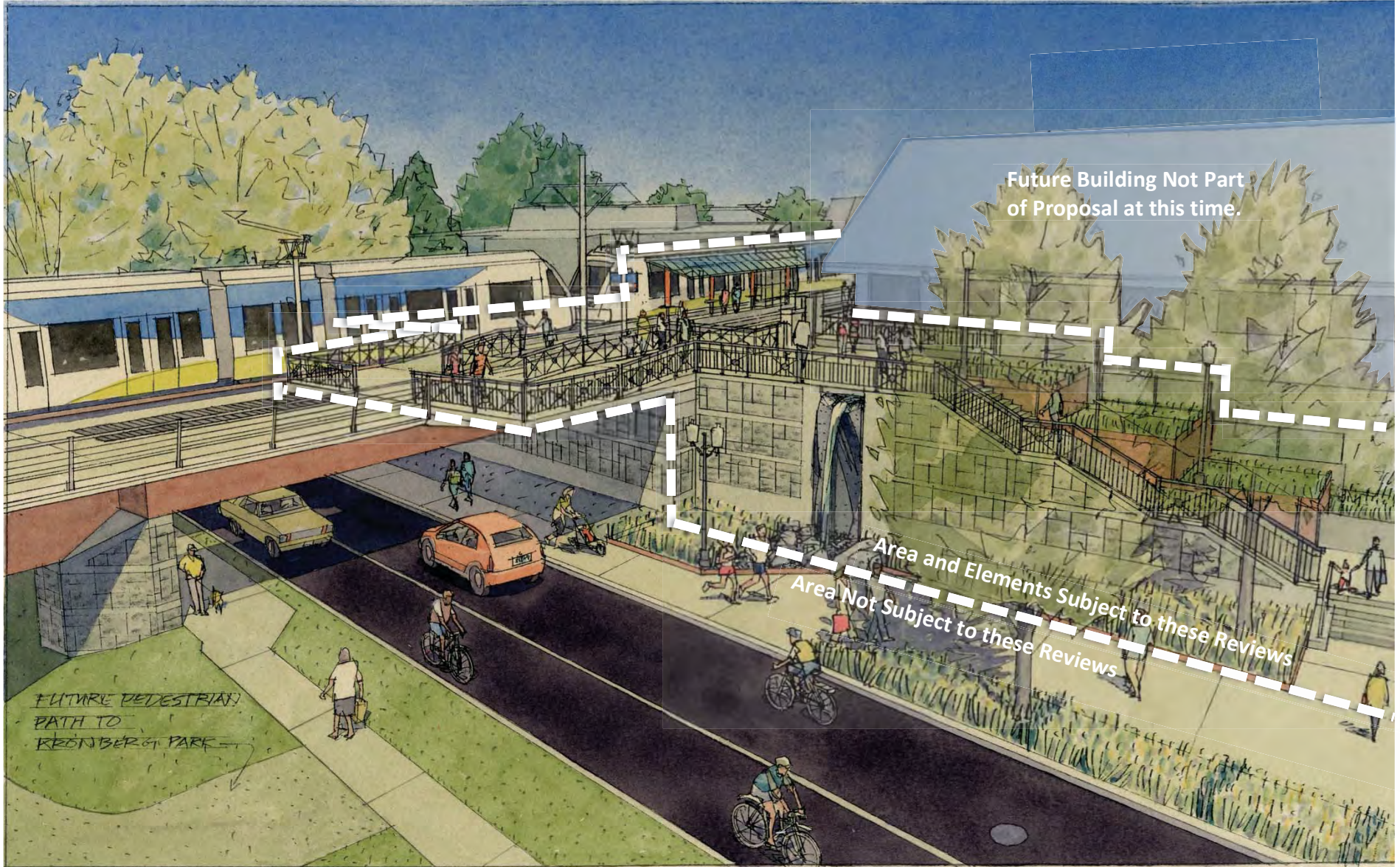
Exhibit O 6



**Future Building
Not Part of Proposal.**

Additional Platform Anticipated As A Future Phase

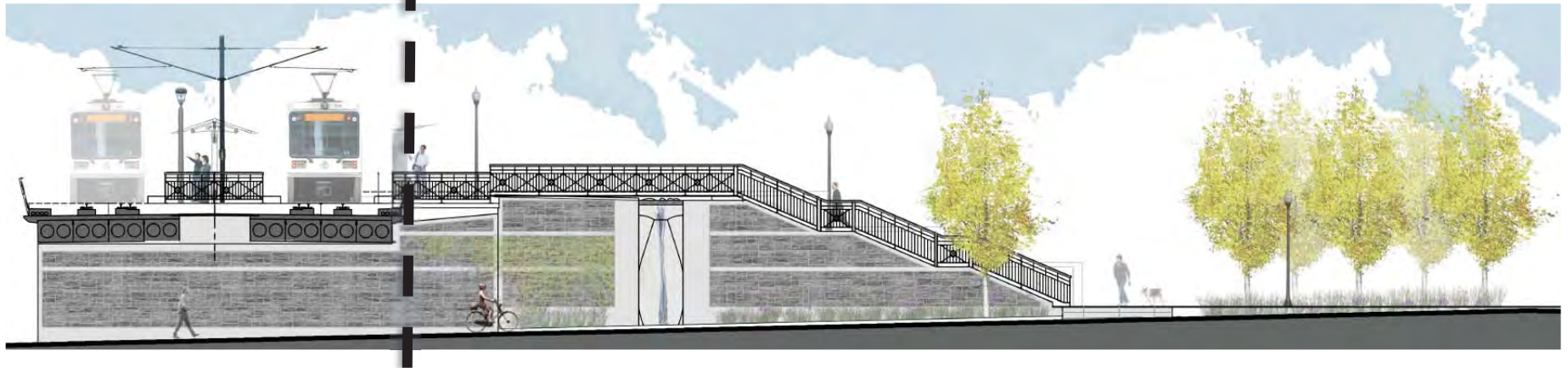
View of Downtown Station from North




View of Downtown Station from South

Earlier Review

Current Review



Abutment Wall, Stairs, and Cantilevered Access, and Art Location



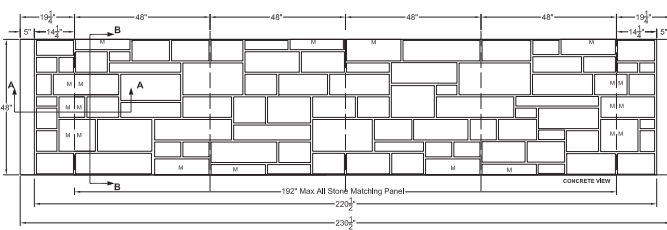
**FITZGERALD
FORMLINERS**
Forming The Future™

**PATTERN 16999
Georgia Ashlar**
Linear cut ashlar block

GrayLastic™
Elastomeric Urethane • up to 100 uses,
Mold bonded to 0.75" plywood, Add 1.125" to liner thickness.

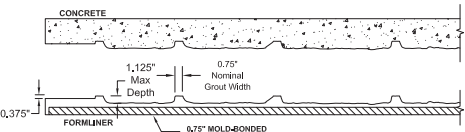
Stone & Rock
Part Size: 220.5" W x 48" H
Max Depth: 1.125"
Stone Sizes: 7"- 28" W
3"- 12" H

M= Match point
Dashed line Indicates
vertical match point locations
192" Max All Stone Matching Panel

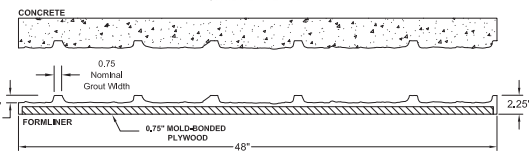


192" Max All Stone Matching Panel

**SECTION A-A
FORMLINER DETAIL**



**SECTION B-B
FORMLINER DETAIL**




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Pattern can be requested in AutoCad format.
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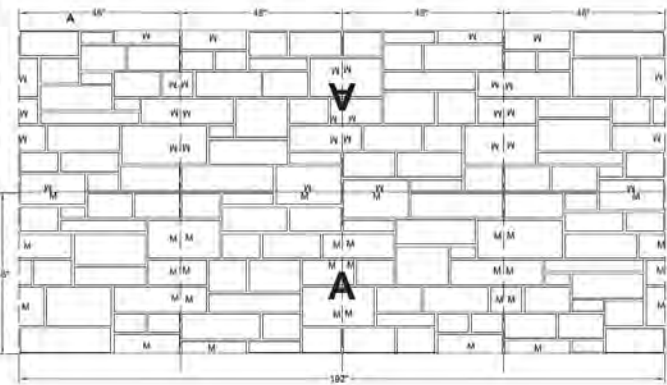
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192" Max All Stone Matching Panel



192"

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Pattern can be requested in AutoCad format.
File Name: S-16999-GR-02-07 Page 1 of 2



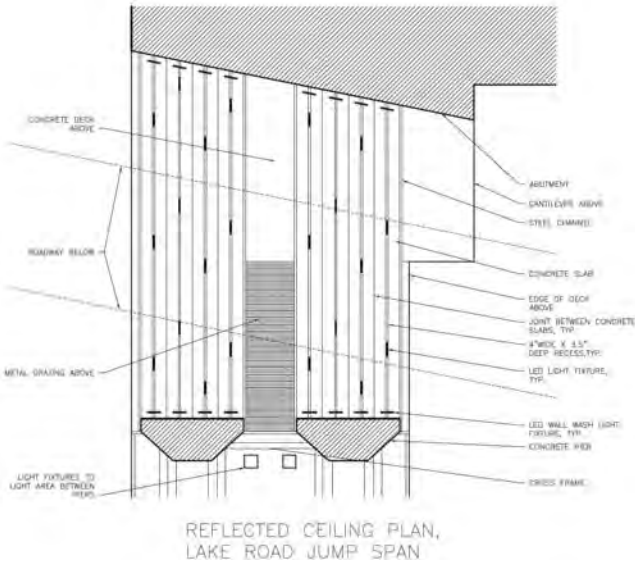
Ashlar Abutment Wall Details



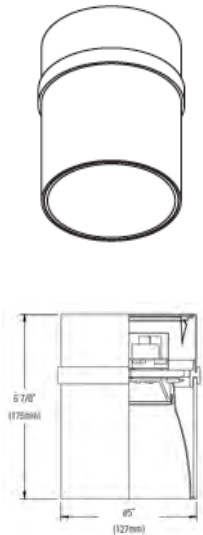
View Under Jump Span Showing Fixture Placement



Night View – Lake Road



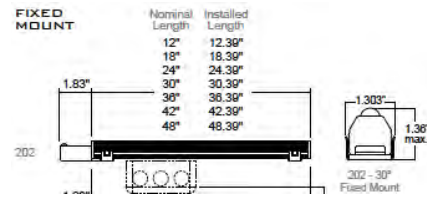
Jump Span Reflected Lighting Plan



Mid-Column Fixtures



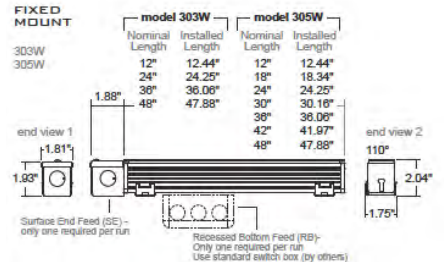
FIXED MOUNT



Wall Washing Fixtures

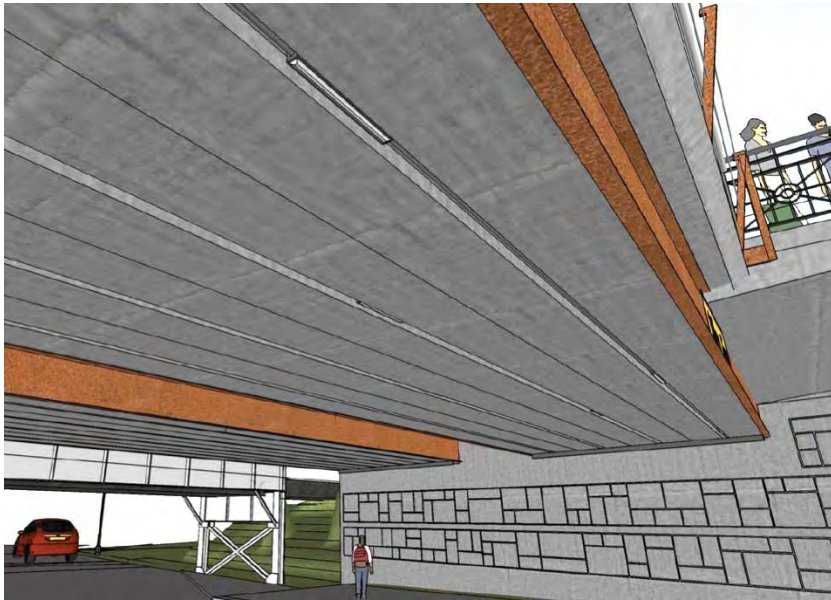


FIXED MOUNT



Recess Mounted Fixtures

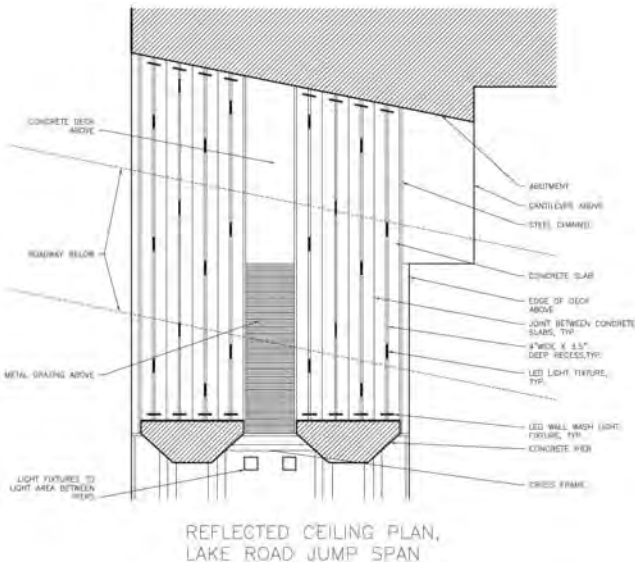
Jump Span Lighting Refinements



View Under Jump Span Showing Fixture Placement



Night View – Lake Road



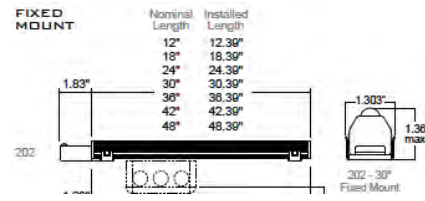
Jump Span Reflected Lighting Plan



Mid-Column Fixtures



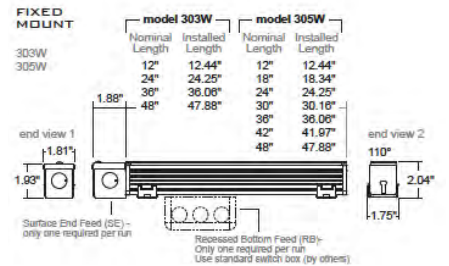
FIXED MOUNT



Wall Washing Fixtures



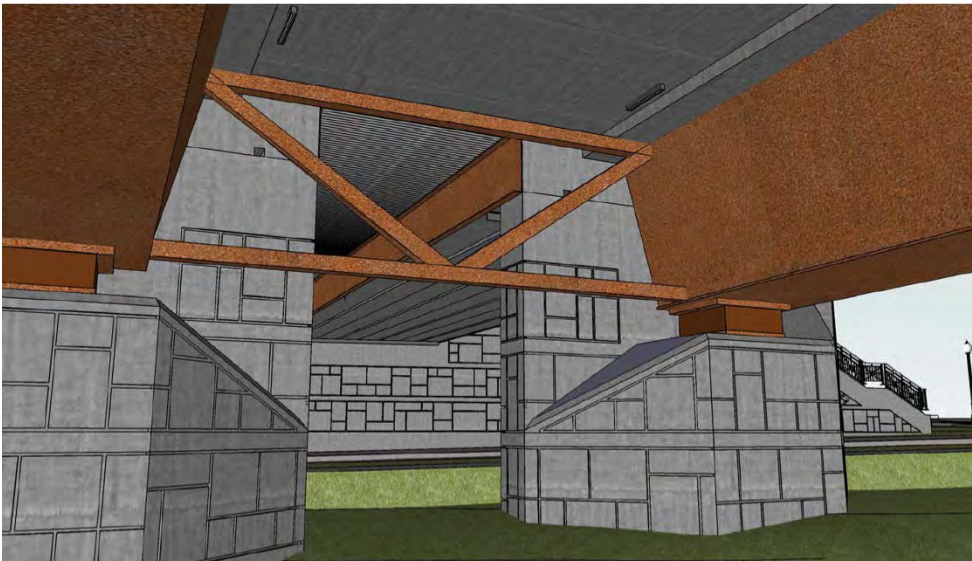
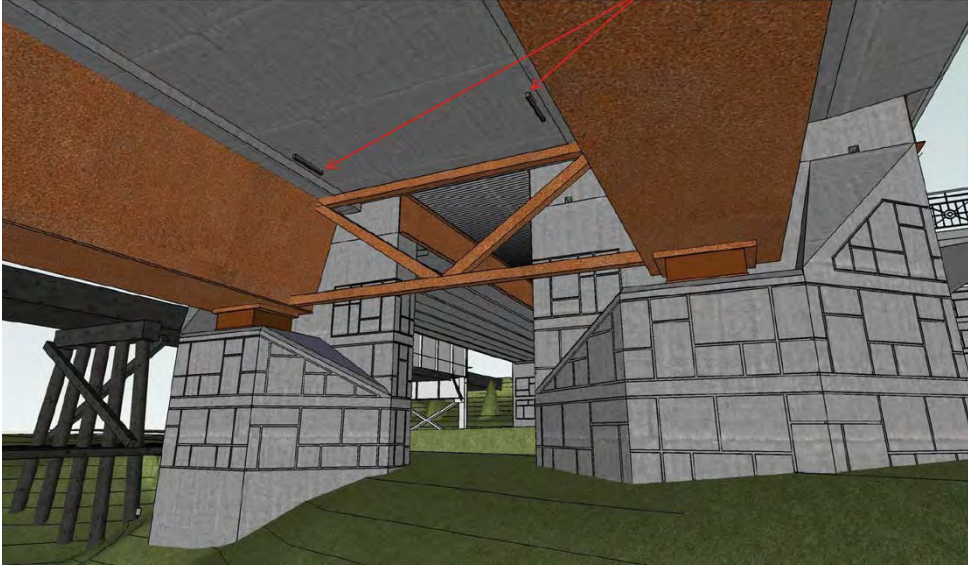
FIXED MOUNT



Recess Mounted Fixtures

Jump Span Lighting Refinements

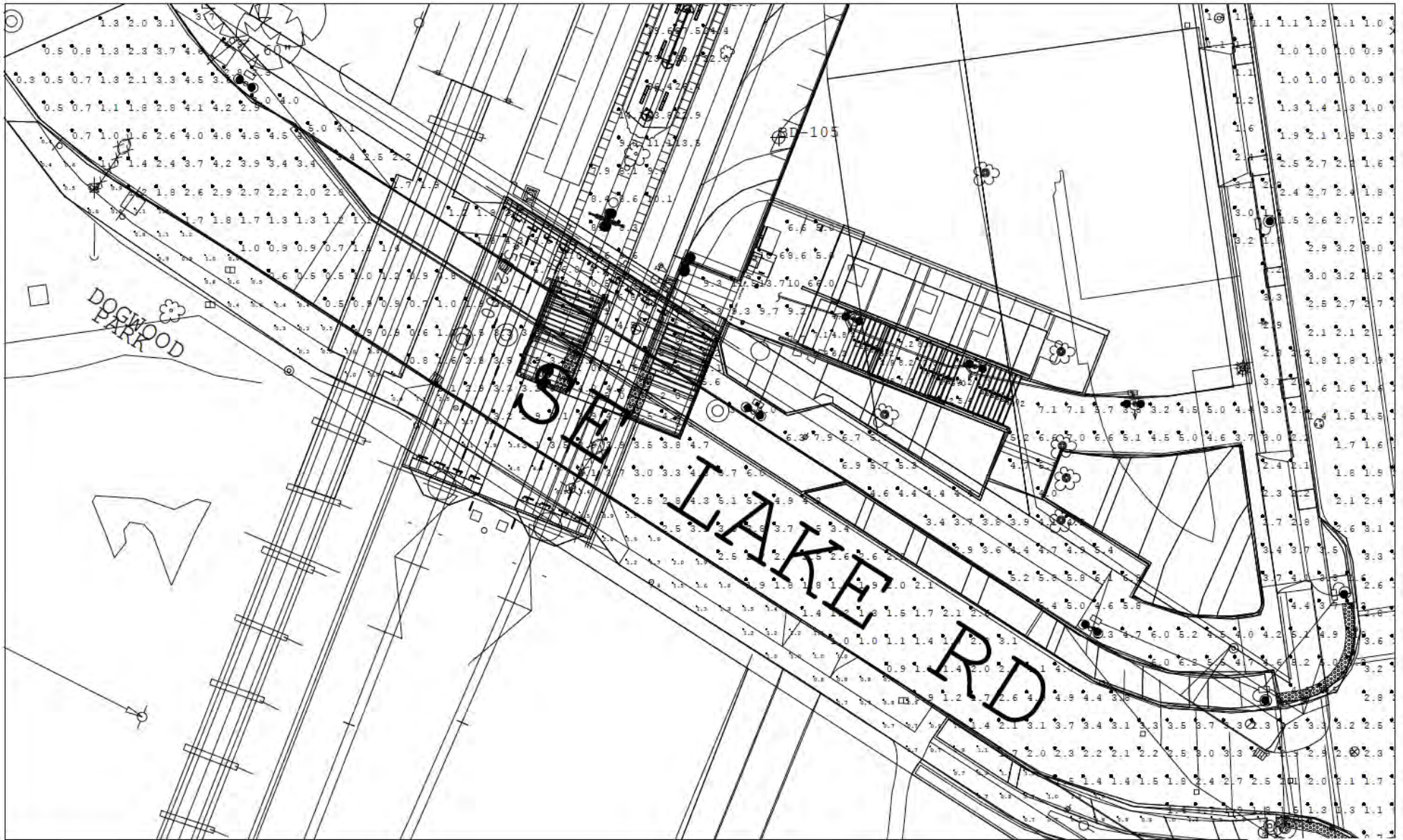
Light fixtures at Pier 2

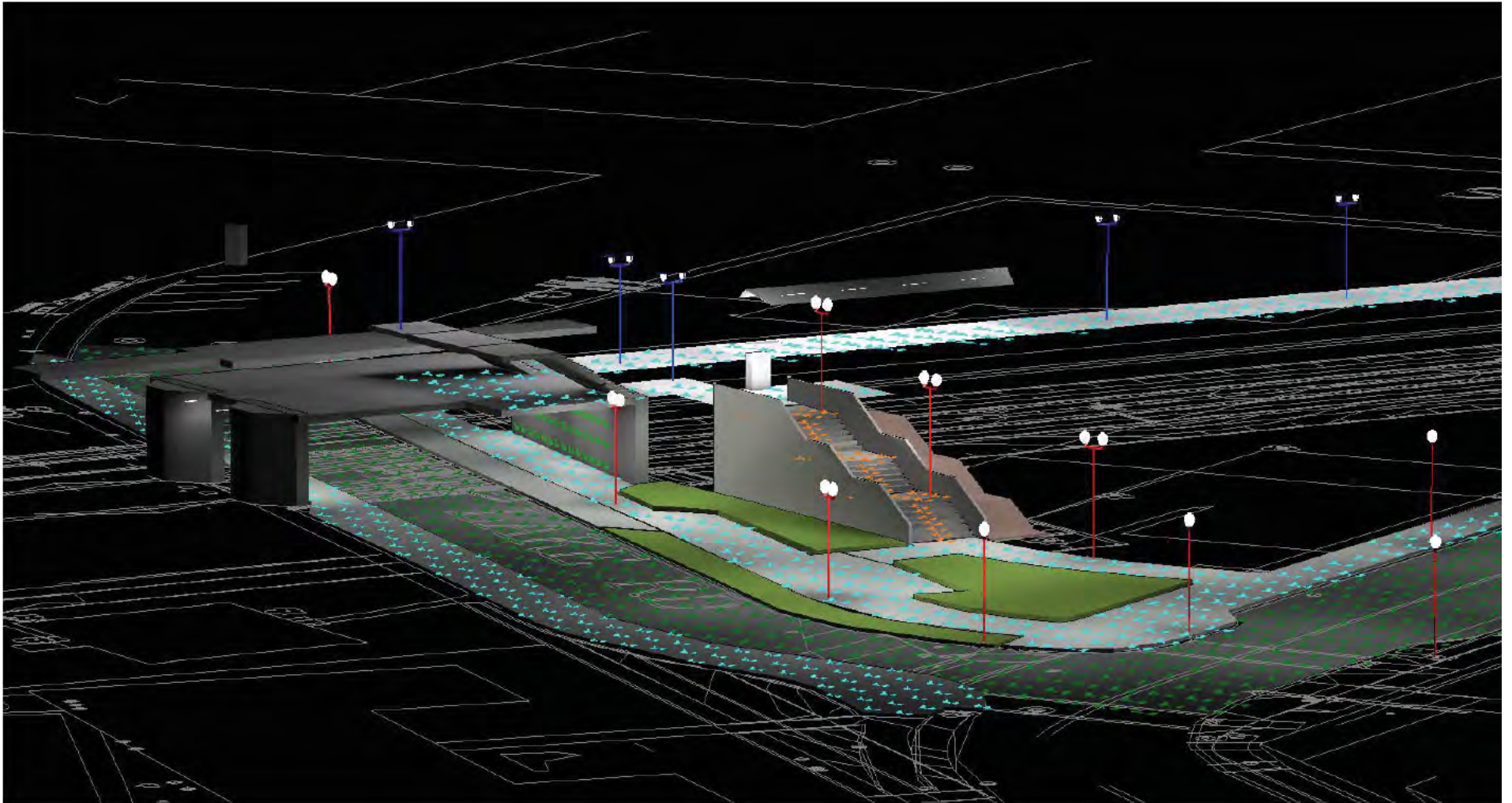


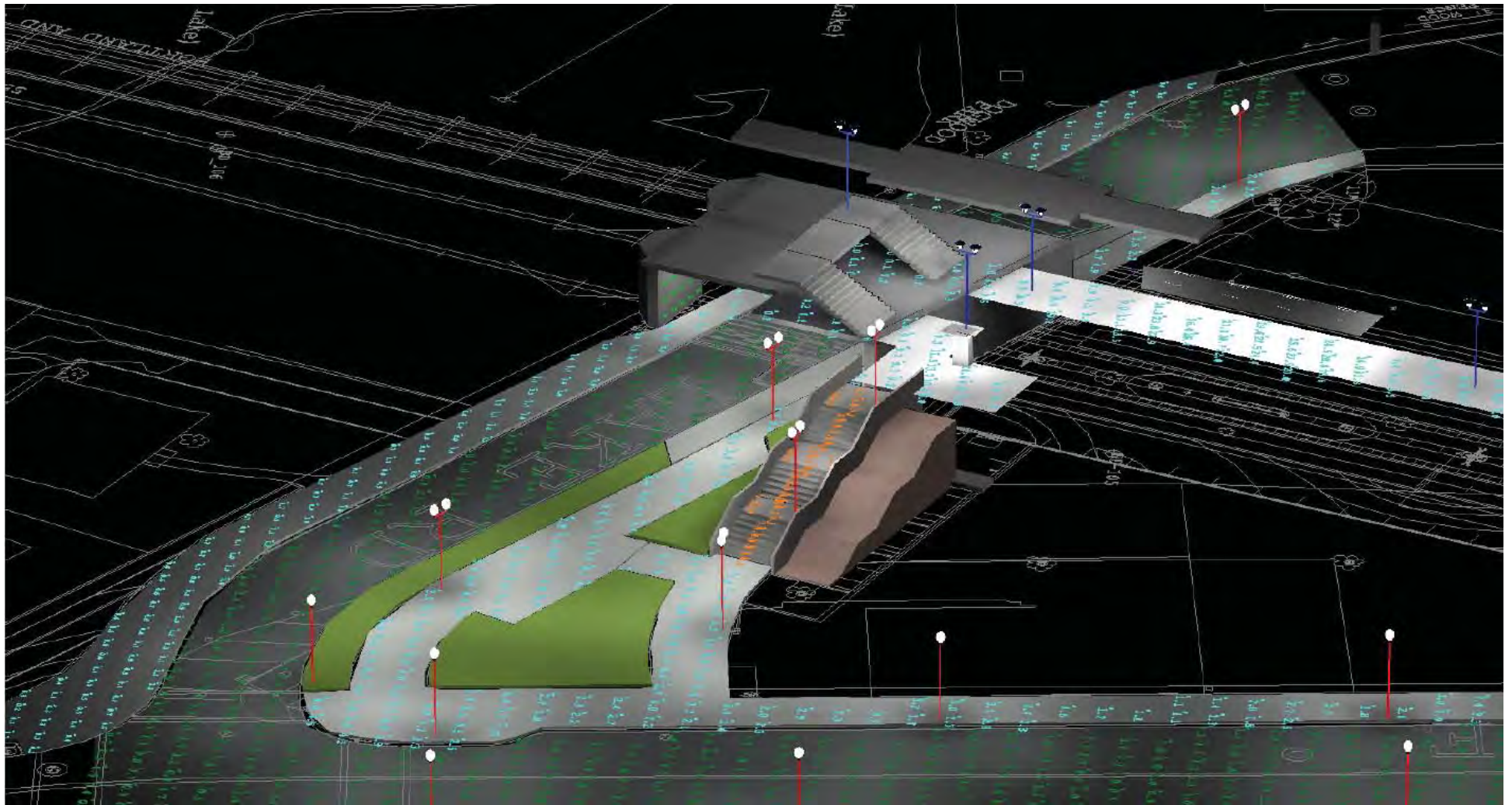
Fixture Placement By Columns

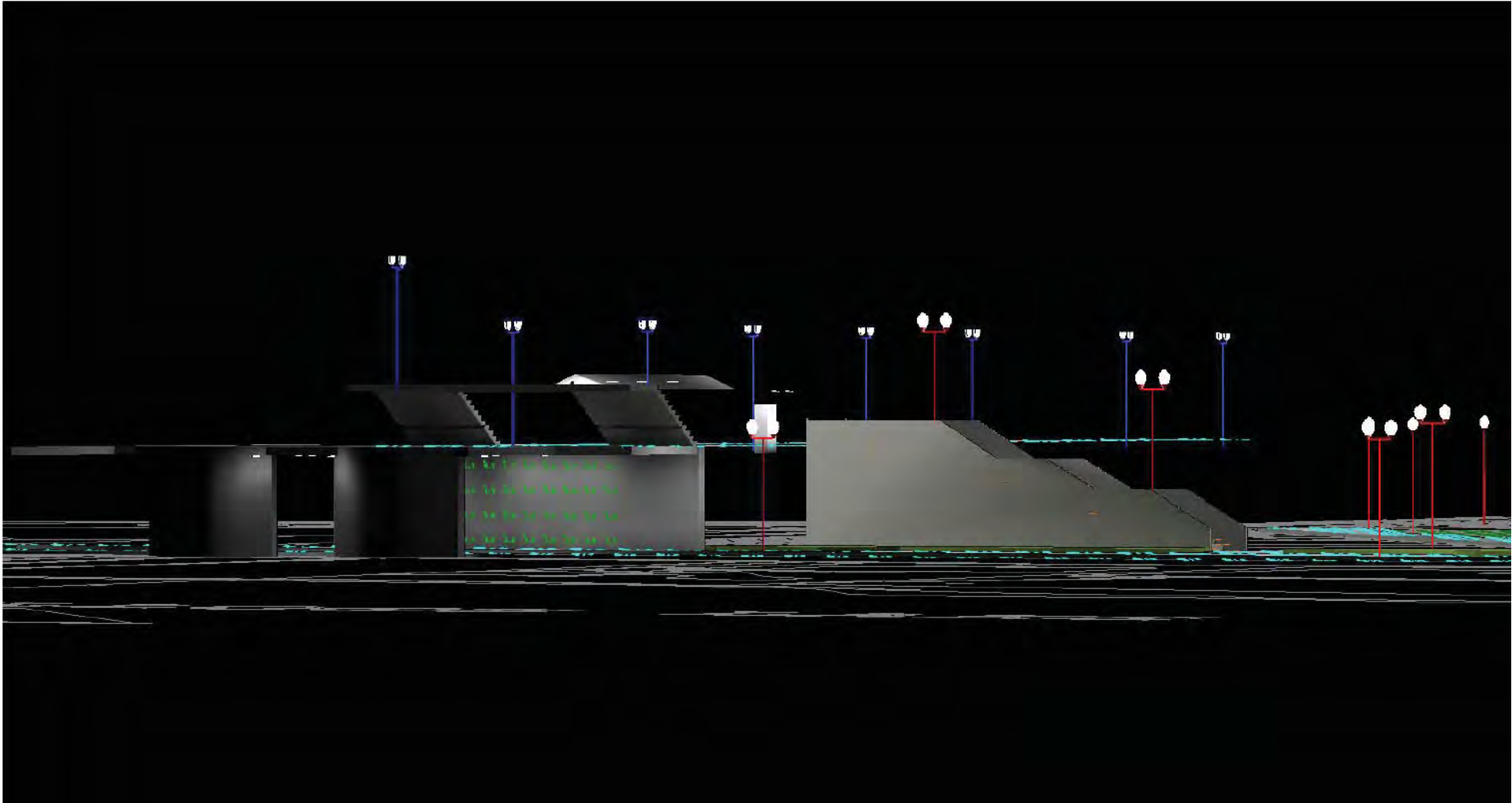
Jump Span Lighting: Night and Day from Lake Road

Jump Span Lighting Refinements














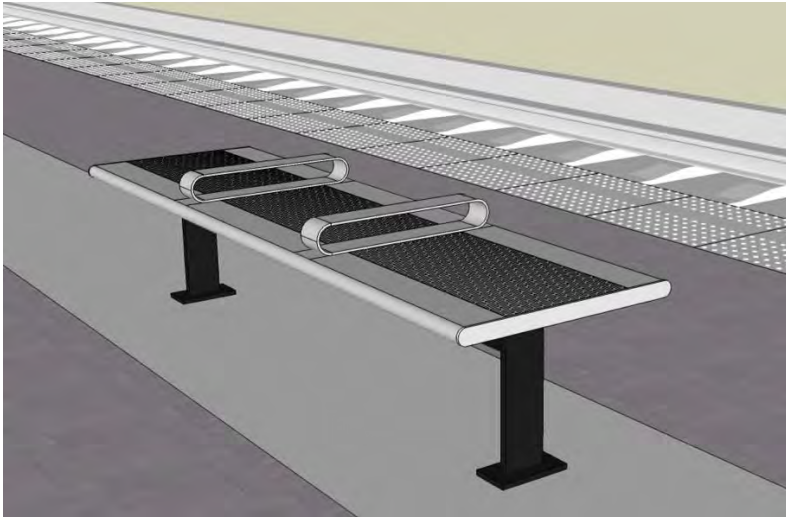


Photometric Analysis

Exhibit P 6D

Luminaire Schedule						
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description
	4	TVM	SINGLE	N.A.	0.279	TVM - Winona WSL 305W 65 5k LTL20528
	8	SA15	SINGLE	5800	0.711	SA15 Guth Marquee 2T8
	8	SA3	BACK-BACK	N.A.	0.808	SA3 - Beta ARE EDR 5M 10 D UL 350 60K (350mA)
	6	SA5B	BACK-BACK	16000	0.595	SA5B - Hadco TW5
	16	SA21A	SINGLE	4196	0.183	SA21A - Winona WSL-305W-4-30-30K-ND24V-A-NAA
	24	SA21	SINGLE	N.A.	0.182	SA21 - Winona WSL-305W-4-110-30K-ND24V-A-NAA
	12	SA5A	SINGLE	16000	0.595	SA5B - Hadco TW5

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
ABUTMENT	Illuminance	Fc	3.62	6.9	0.7	5.17	9.86
Lake Road_Top_1	Illuminance	Fc	2.43	6.0	0.3	8.10	20.00
PIER 1	Illuminance	Fc	3.58	6.1	1.7	2.11	3.59
PIER 2	Illuminance	Fc	4.36	6.9	2.5	1.74	2.76
Platform Planar	Illuminance	Fc	7.68	30.7	0.0	N.A.	N.A.
Sidewalk1_Top_1	Illuminance	Fc	3.86	7.9	1.1	3.51	7.18
Sidewalk2_Top	Illuminance	Fc	1.18	6.5	0.2	5.90	32.50
Stairs_1_Side_11	Illuminance	Fc	6.20	6.2	6.2	1.00	1.00
Stairs_1_Side_13	Illuminance	Fc	5.50	5.5	5.5	1.00	1.00
Stairs_1_Side_15	Illuminance	Fc	4.90	4.9	4.9	1.00	1.00
Stairs_1_Side_17	Illuminance	Fc	4.00	4.0	4.0	1.00	1.00
Stairs_1_Side_19	Illuminance	Fc	0.00	0.0	0.0	N.A.	N.A.
Stairs_1_Side_5	Illuminance	Fc	6.97	10.0	3.5	1.99	2.86
Stairs_1_Side_7	Illuminance	Fc	7.10	7.1	7.1	1.00	1.00
Stairs_1_Side_9	Illuminance	Fc	7.00	7.0	7.0	1.00	1.00
Stairs_2_Side_11_1	Illuminance	Fc	3.50	3.5	3.5	1.00	1.00
Stairs_2_Side_13_1	Illuminance	Fc	5.00	5.0	5.0	1.00	1.00
Stairs_2_Side_15_1	Illuminance	Fc	5.80	5.8	5.8	1.00	1.00
Stairs_2_Side_17_1	Illuminance	Fc	5.20	5.2	5.2	1.00	1.00
Stairs_2_Side_5_1	Illuminance	Fc	5.00	7.1	3.1	1.61	2.29
Stairs_2_Side_7_1	Illuminance	Fc	2.50	2.5	2.5	1.00	1.00
Stairs_2_Side_9_1	Illuminance	Fc	2.90	2.9	2.9	1.00	1.00
Stairs_Side_11_1	Illuminance	Fc	3.10	3.1	3.1	1.00	1.00
Stairs_Side_13_1	Illuminance	Fc	3.90	3.9	3.9	1.00	1.00
Stairs_Side_15_1	Illuminance	Fc	3.70	3.7	3.7	1.00	1.00
Stairs_Side_17_1	Illuminance	Fc	4.00	4.0	4.0	1.00	1.00
Stairs_Side_19_1	Illuminance	Fc	4.20	4.2	4.2	1.00	1.00
Stairs_Side_5_1	Illuminance	Fc	2.90	5.4	0.0	N.A.	N.A.
Stairs_Side_7_1	Illuminance	Fc	3.00	3.0	3.0	1.00	1.00
Stairs_Side_9_1	Illuminance	Fc	3.10	3.1	3.1	1.00	1.00
LAKE ROAD - UNDER OVERPASS	Illuminance	Fc	3.05	6.9	0.0	N.A.	N.A.



Freestanding Platform Bench



Bike Lockers



Platform System Signage



Platform Equipment



Stainless Receptacles



Transit Information Signage



Signal Bungalows



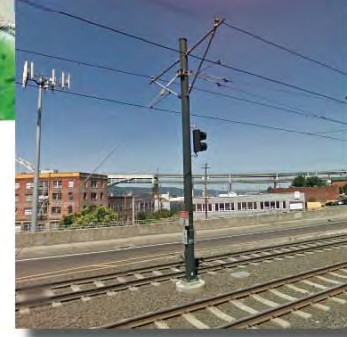
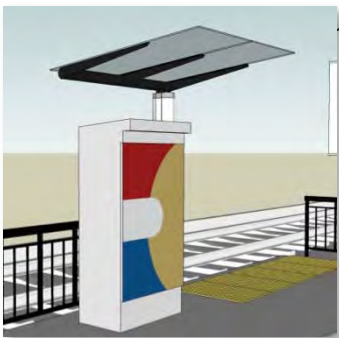
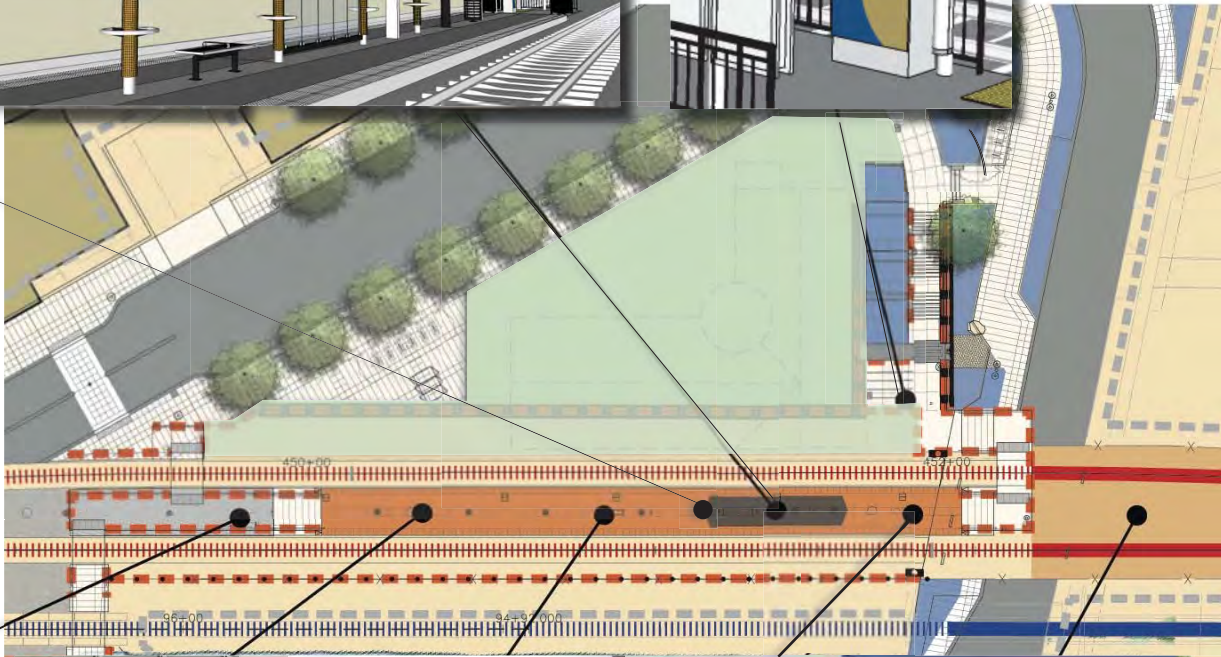
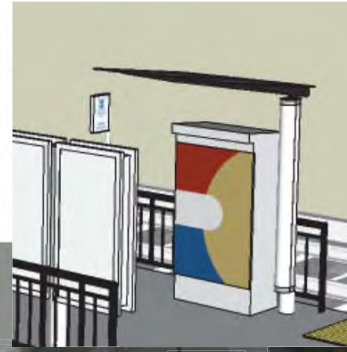
Ticket Vending Machines



OCS Poles



Phone



Station Elements



Off-Platform Milwaukie-Black Benches and Receptacles (not under review)



Milwaukie Standard Street Lights (not under review)



Milwaukie Specific Railings (mock-up shown)



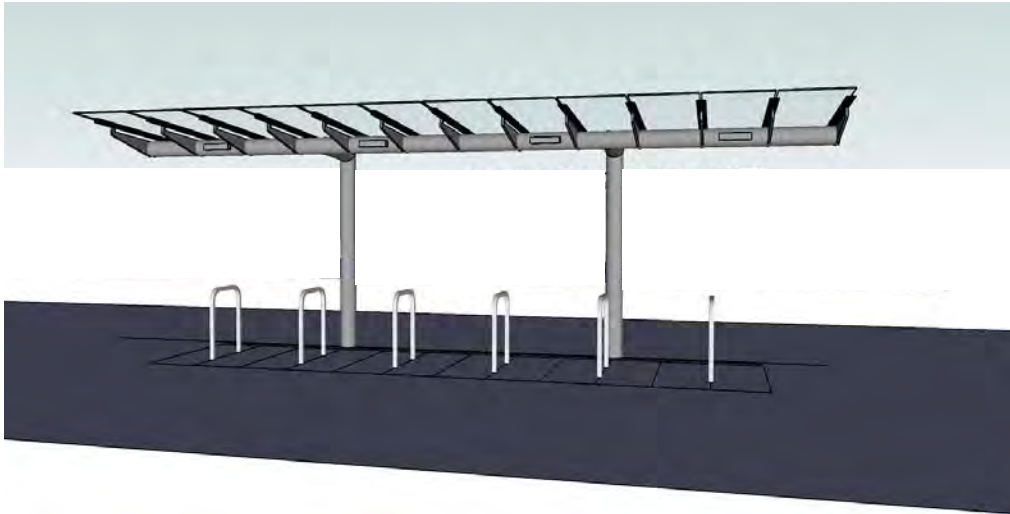
Ashlar Modular Wall



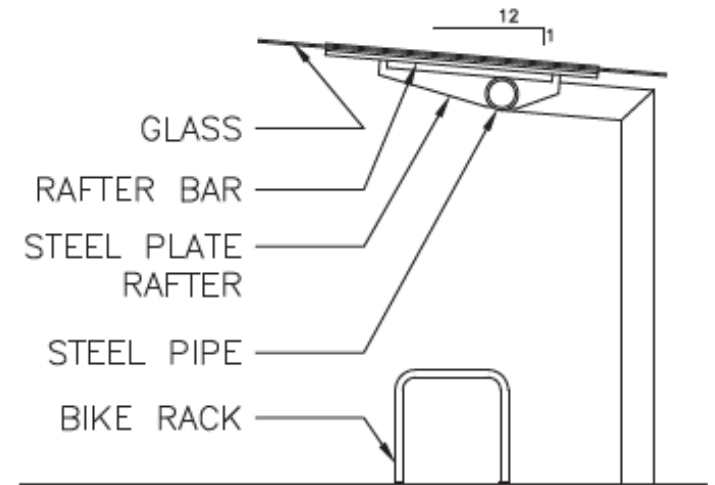
Detailed Bollards (not under review)



Milwaukie Specific Plantings



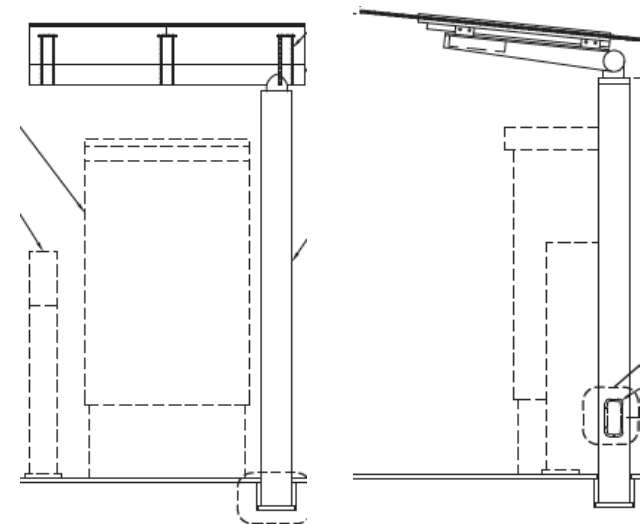
Bike Shelter and Racks



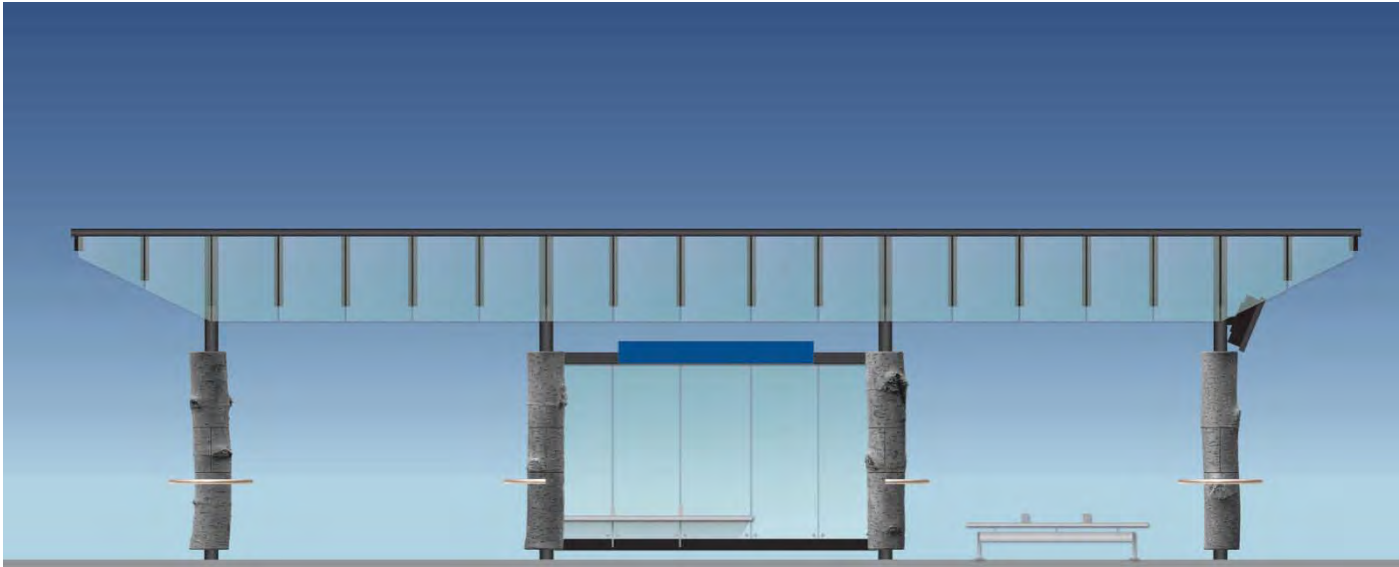
Bike Shelter Section



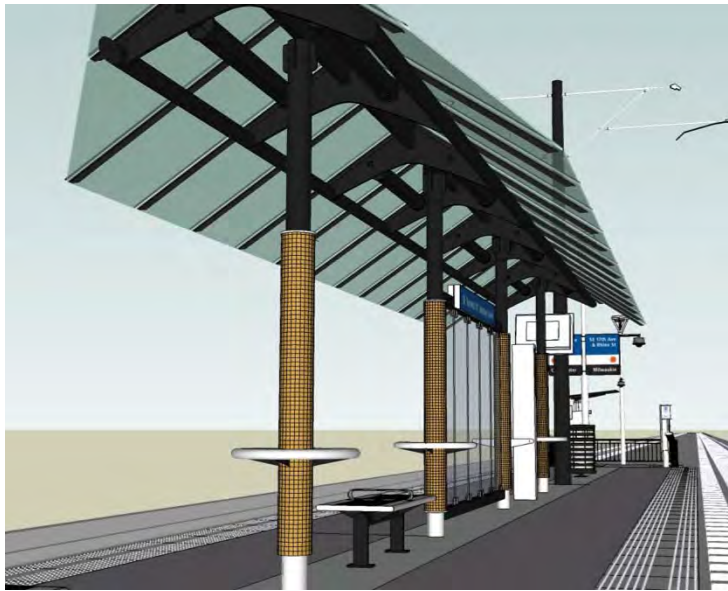
Station-specific Shelter and TVM Shelter With Other Platform Amenities



TVM Shelter Elevation & Section



View of Shelter With Integrated Art

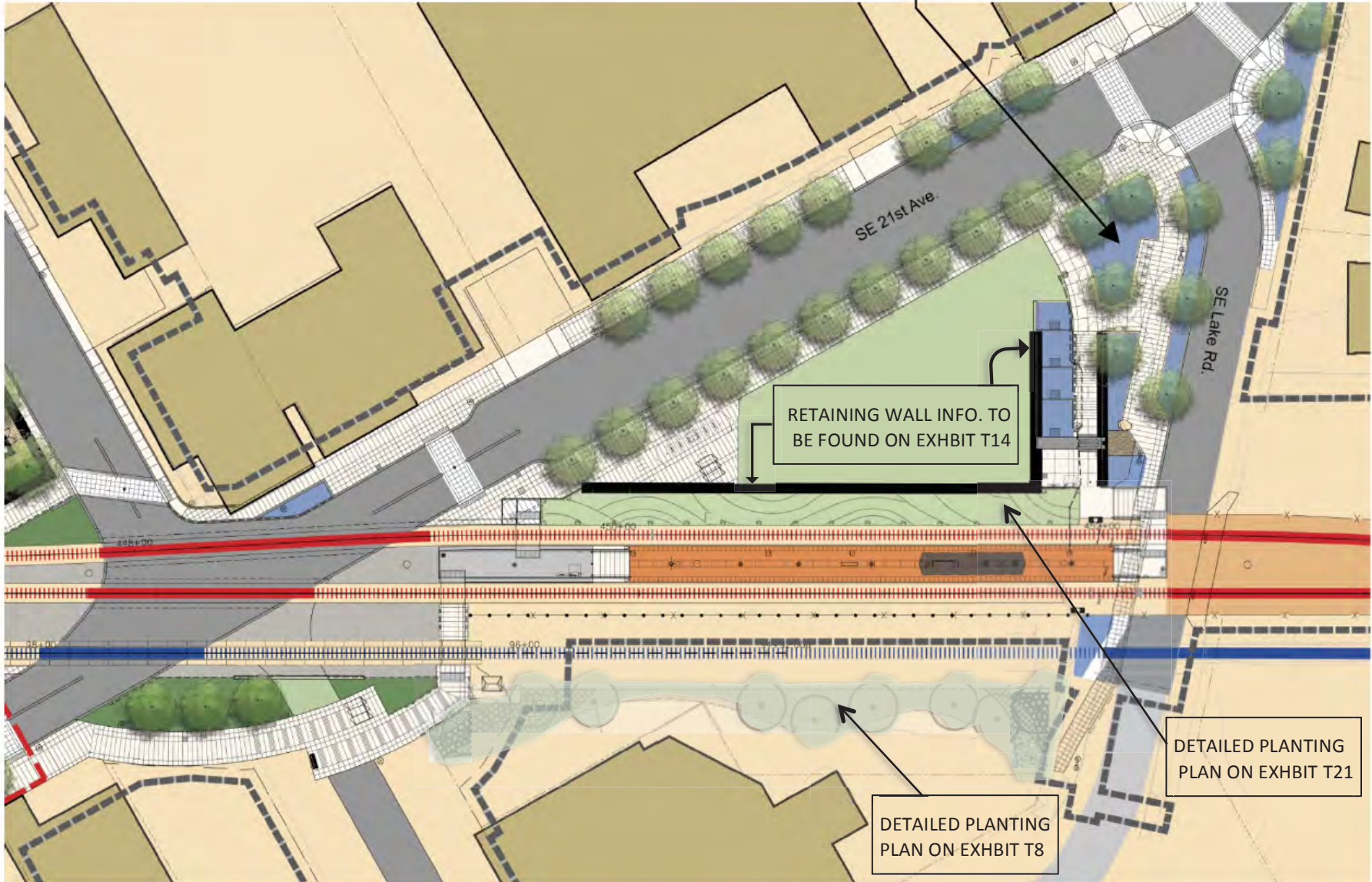


**Diagrammatic Views With Additional Platform Amenities
(See above for specific column intentions)**

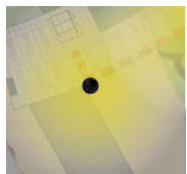
Elements of Distinction – Platform Shelter Design



STORMWATER PLANTING



Landscape Plan with Plant Selections



Street Lighting



Light from Platform Fixture Directly Above Street

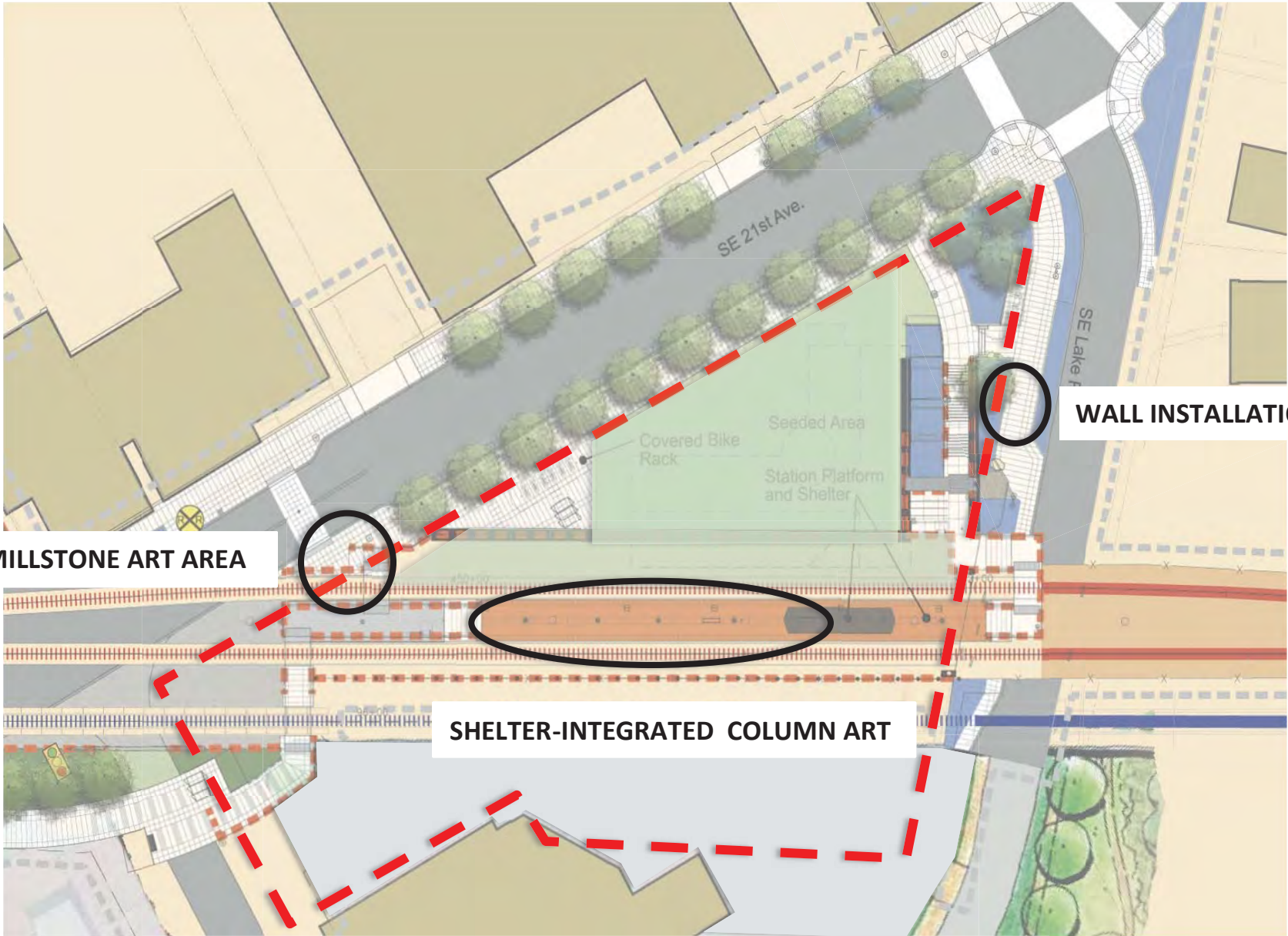
Ambient Lighting of Streets in Vicinity of the Station



Street Light
(not in review)



Platform Light
(not in review)

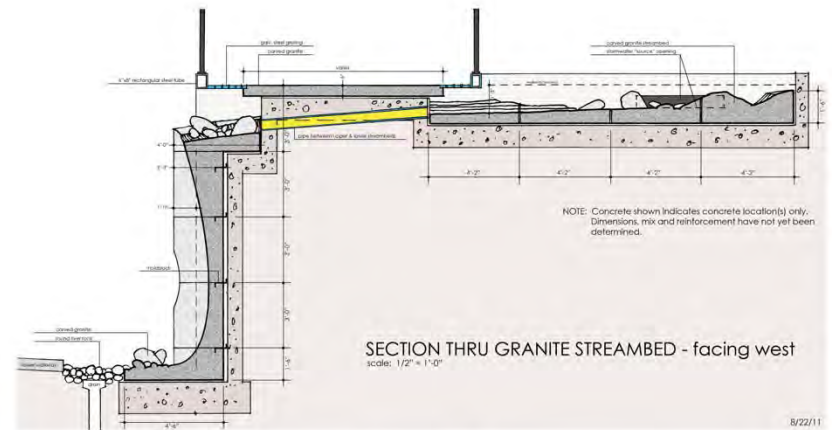


MILLSTONE ART AREA

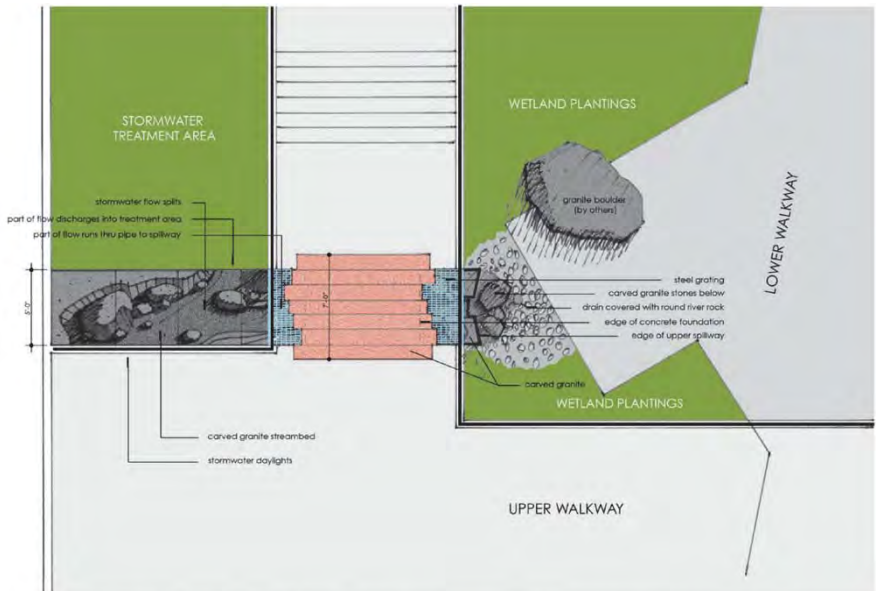
WALL INSTALLATION

SHELTER-INTEGRATED COLUMN ART

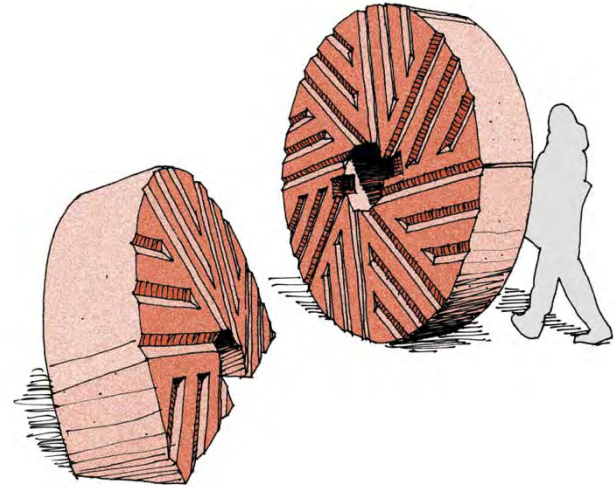
- - - - - Affected Lot Boundary



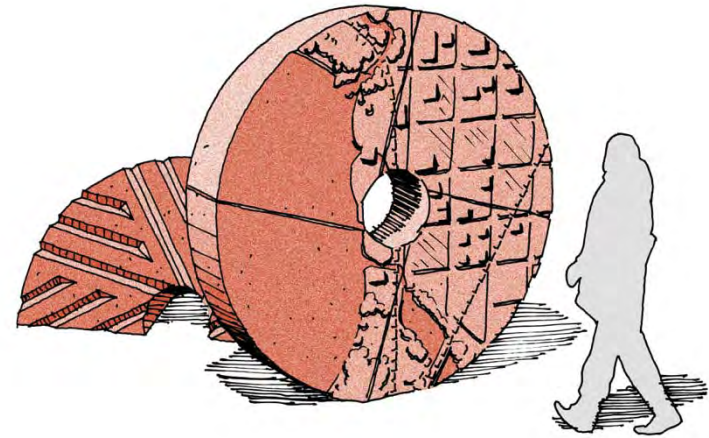
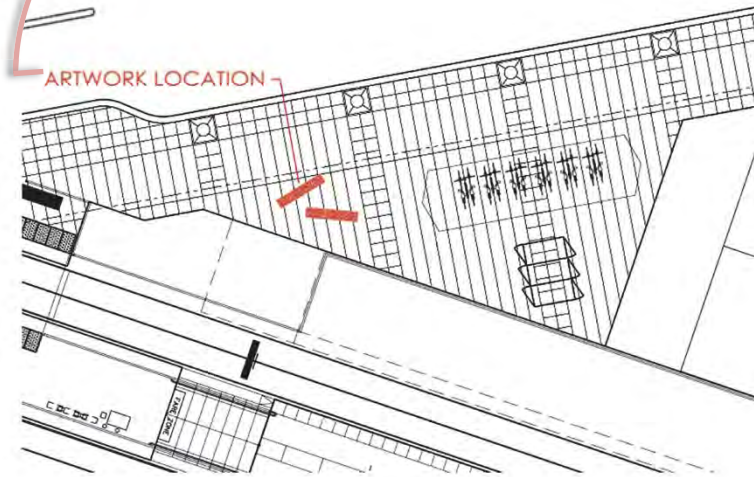
Lake Rd Station - SOUTH ENTRY Brian Goldbloom 20809 NE 389th Street, Amboy, WA 98601, 360-247-6134, L_goldbloom@hotmail.com



Milwaukie/Main St. - SOUTH ENTRY Brian Goldbloom 20809 NE 389th Street, Amboy, WA 98601, 360-247-6134, L_goldbloom@hotmail.com

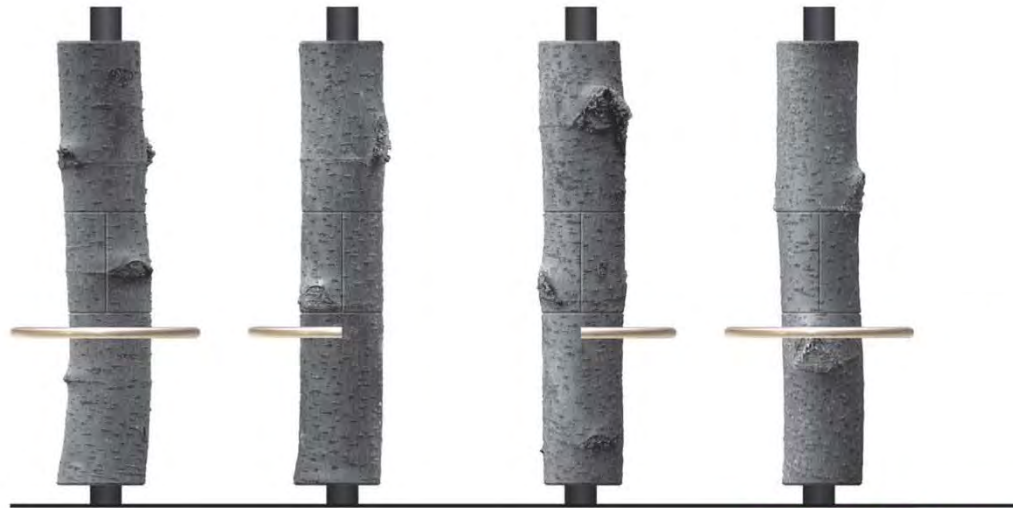


Lake Rd Station - NORTH END Brian Goldbloom 20809 NE 389th Street, Ankeny, WA 98001, 360-247-6134, bgoldbloom@hotmail.com

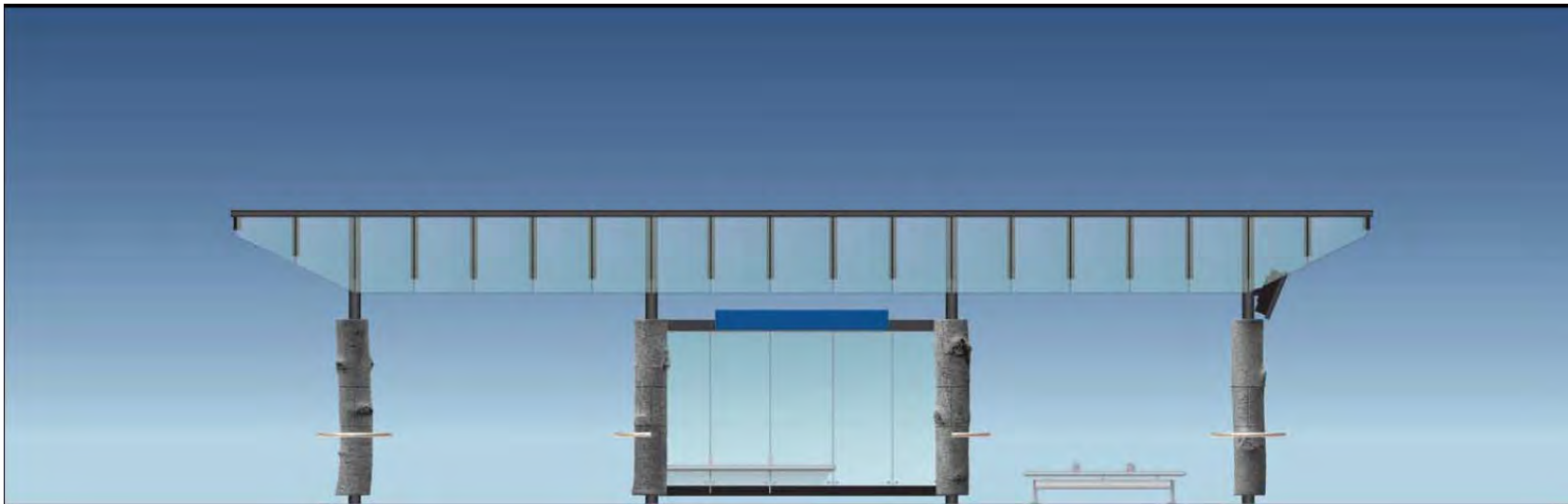


Lake Rd Station - NORTH END Brian Goldbloom 20809 NE 389th Street, Ankeny, WA 98001, 360-247-6134, bgoldbloom@hotmail.com

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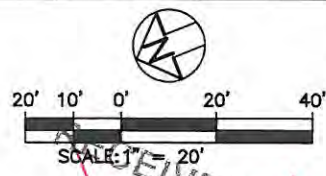


Detailed View of Columns



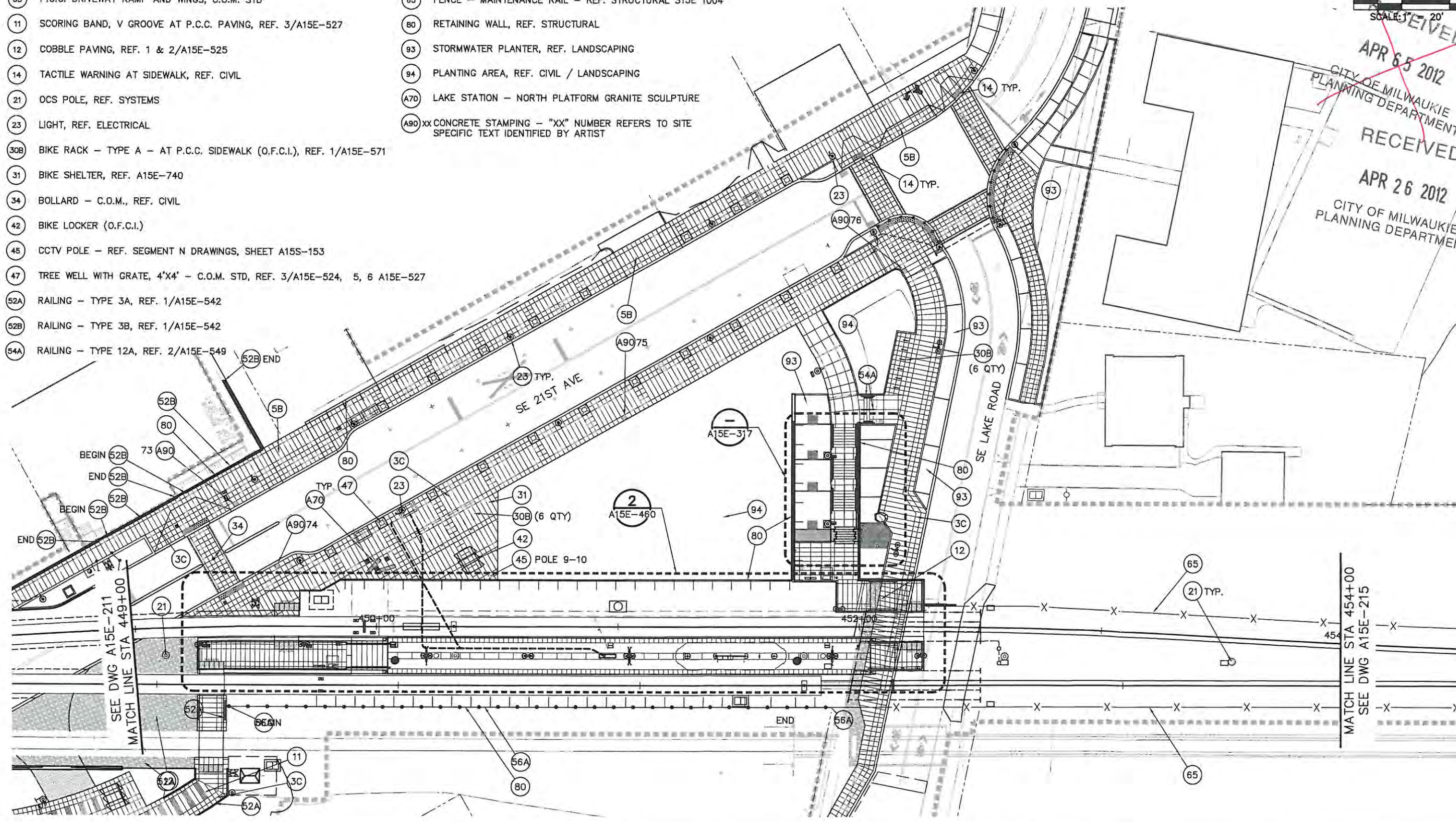
Station Platform Column Art Installation

- 3C P.C.C. SIDEWALK, C.O.M. STD, REF. 3/A15E-524
- 5B P.C.C. DRIVEWAY RAMP AND WINGS, C.O.M. STD
- 11 SCORING BAND, V GROOVE AT P.C.C. PAVING, REF. 3/A15E-527
- 12 COBBLE PAVING, REF. 1 & 2/A15E-525
- 14 TACTILE WARNING AT SIDEWALK, REF. CIVIL
- 21 OCS POLE, REF. SYSTEMS
- 23 LIGHT, REF. ELECTRICAL
- 30B BIKE RACK - TYPE A - AT P.C.C. SIDEWALK (O.F.C.I.), REF. 1/A15E-571
- 31 BIKE SHELTER, REF. A15E-740
- 34 BOLLARD - C.O.M., REF. CIVIL
- 42 BIKE LOCKER (O.F.C.I.)
- 45 CCTV POLE - REF. SEGMENT N DRAWINGS, SHEET A15S-153
- 47 TREE WELL WITH GRATE, 4'X4' - C.O.M. STD, REF. 3/A15E-524, 5, 6 A15E-527
- 52A RAILING - TYPE 3A, REF. 1/A15E-542
- 52B RAILING - TYPE 3B, REF. 1/A15E-542
- 54A RAILING - TYPE 12A, REF. 2/A15E-549
- 56A RAILING - TYPE 7A, REF. 1/A15E-550
- 65 FENCE - MAINTENANCE RAIL - REF. STRUCTURAL S15E 1004
- 80 RETAINING WALL, REF. STRUCTURAL
- 93 STORMWATER PLANTER, REF. LANDSCAPING
- 94 PLANTING AREA, REF. CIVIL / LANDSCAPING
- A70 LAKE STATION - NORTH PLATFORM GRANITE SCULPTURE
- A90 xx CONCRETE STAMPING - "xx" NUMBER REFERS TO SITE SPECIFIC TEXT IDENTIFIED BY ARTIST



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 PLANNING DEPARTMENT

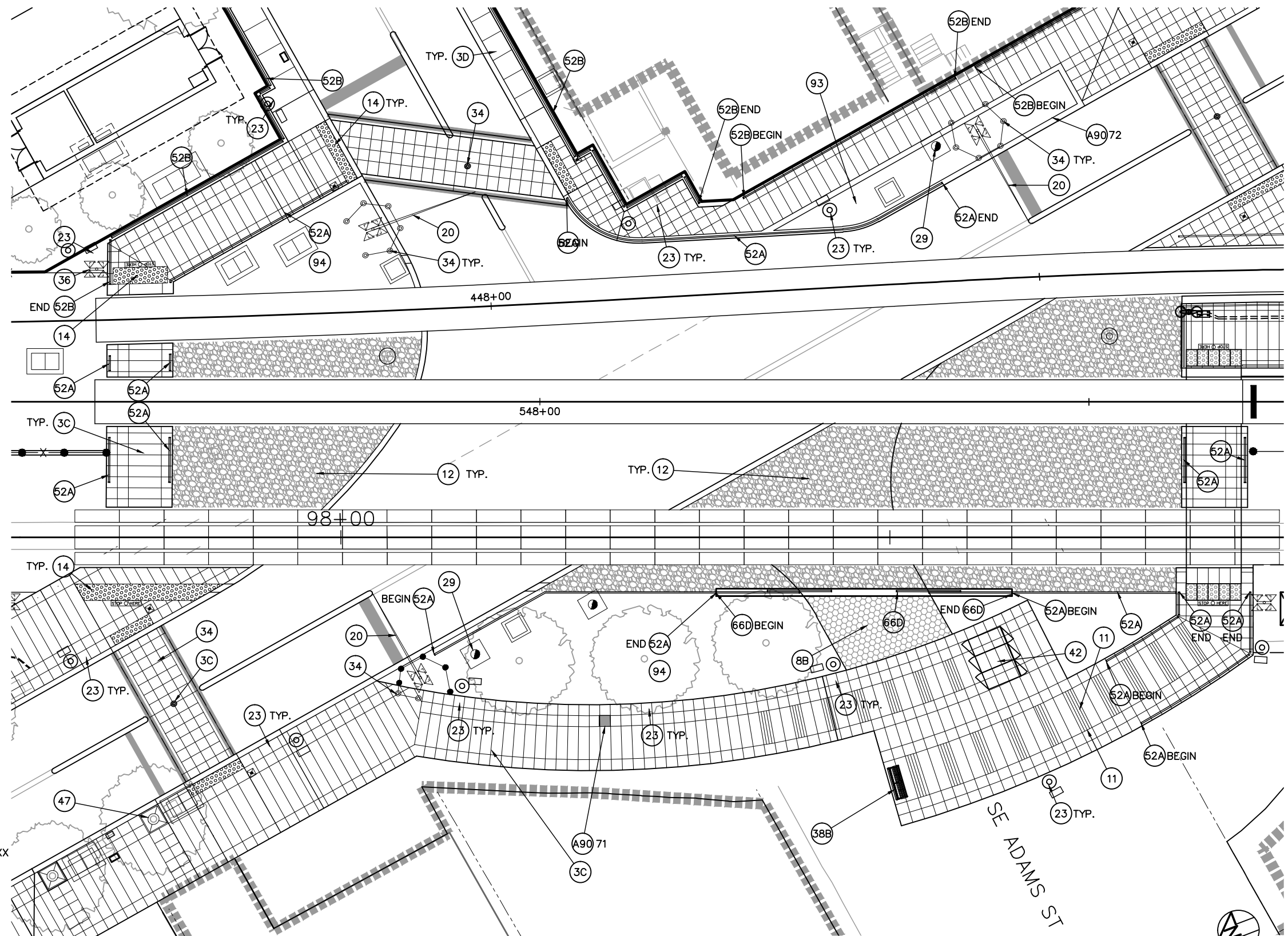
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RAH DESIGNED 06-01-11 DATE JFC DRAWN 06-01-11 DATE TLC CHECKED 11-03-11 DATE APPROVED 5-14-12 DATE								
ISSUED FOR CONSTRUCTION NO. DATE BY APPD. REVISIONS			TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON CAPITAL PROJECTS AND FACILITIES DIVISION 710 N.E. HOLLADAY STREET PORTLAND, OREGON 97232		PORTLAND TO MILWAUKIE LRT EAST SEGMENT Exhibit T 1 ARCHITECTURAL SITE PLAN (MILWAUKIE/MAIN STREET STATION) STA 449+00 TO STA 454+00		SCALE: 1"=20' DRAWING NO.: A15E-213 CONTRACT NO.: RH100544JB SHEET NO.:	

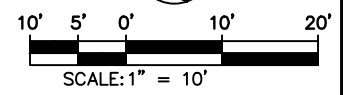
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ARCHITECTURAL KEYNOTES

- (3C) P.C.C. SIDEWALK, C.O.M. STD, REF. 3/A15E-524
- (3D) P.C.C. SIDEWALK. SCORING PER PLANS
- (8B) FLEXIBLE POROUS PAVING, REF. 1/A15E-526
- (11) SCORING BAND, V GROOVE AT P.C.C. PAVING, REF. 3/A15E-527
- (12) COBBLE PAVING, REF. 1 & 2/A15E-525
- (14) TACTILE WARNING AT SIDEWALK, REF. CIVIL
- (20) CROSSING GATE, REF. CIVIL
- (21) OCS POLE, REF. SYSTEMS
- (23) LIGHT, REF. ELECTRICAL
- (29) TRAFFIC SIGNAL POLE, REF. TRAFFIC PLANS
- (34) BOLLARD - C.O.M., REF. CIVIL
- (36) PEDESTRIAN WARNING DEVICE, REF. ELEC.
- (38B) BENCH - TYPE A - C.O.M. STD. (O.F.C.I), REF. 1/A15E-572
- (42) BIKE LOCKER (O.F.C.I.)
- (47) TREE WELL WITH GRATE, 4'X4' - C.O.M. STD, REF. 3/A15E-524, 5, 6 A15E-527
- (52A) RAILING - TYPE 3A, REF. 1/A15E-542
- (52B) RAILING - TYPE 3B, REF. 2/A15E-542
- (60B) FENCE - TYPE 9B - 72" WELDED WIRE FENCE, REF. X/A15E-XXX
- (66D) GATE - FIRE ACCESS, REF. 1/A15E-547
- (93) STORMWATER PLANTER, REF. LANDSCAPING
- (94) PLANTING AREA, REF. CIVIL / LANDSCAPING
- (A90) xx CONCRETE STAMPING - "xx" NUMBER REFERS TO SITE SPECIFIC TEXT IDENTIFIED BY ARTIST

ENLARGED PLANS - SE ADAMS STREET (1)
 SCALE: 1" = 10'-0"



NO.	DATE	BY	CHK.	APPD.	REVISIONS
5-14-12	XXX	XXX			ISSUED FOR CONSTRUCTION

RAH DESIGNED	06-01-11 DATE
JFC DRAWN	06-01-11 DATE
TLC CHECKED	11-03-11 DATE
APPROVED	5-14-12 DATE



TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON
Mayer/Reed
DAVID EVANS AND ASSOCIATES, INC.
TRI-COUNTY MET
 CAPITAL PROJECTS AND FACILITIES DIVISION
 710 N.E. HOLLADAY STREET
 PORTLAND, OREGON 97232

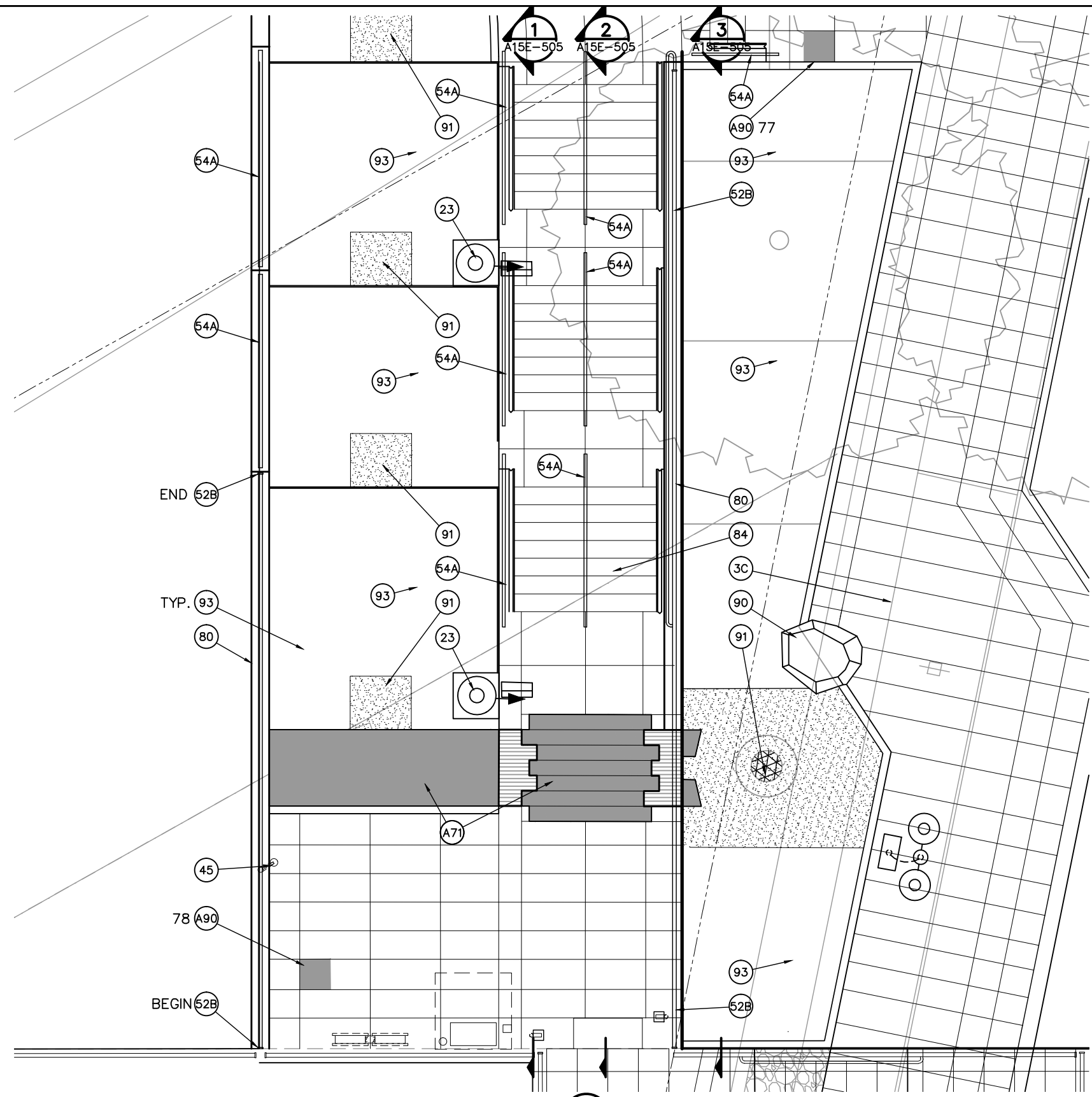
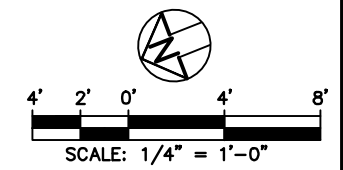
PORTLAND TO MILWAUKIE LRT
EAST SEGMENT
 ARCHITECTURAL ENLARGED PLAN
 SE ADAMS ST
Exhibit T 2

SUBMITTED: DATE: 5-14-12 APPROVED: DATE: 5-14-12
 SCALE: 1"=10' DRAWING NO.: A15E-316 CONTRACT NO.: RH100544JB SHEET NO.:

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ARCHITECTURAL KEYNOTES

- 3C P.C.C. SIDEWALK, C.O.M. STD, REF. 3/A15E-524
- 23 LIGHT, REF. ELECTRICAL
- 45 CCTV POLE - REF. SEGMENT N DRAWINGS, SHEET A15S-153
- 52A RAILING - TYPE 3A, REF. 1/A15E-542
- 52B RAILING - TYPE 3B, REF. 1/A15E-542
- 54A RAILING - TYPE 12A, REF. 2/A15E-549
- 80 RETAINING WALL, REF. STRUCTURAL
- 84 P.C.C. STEPS WITH HANDRAIL, REF. 2/A15E-549 FOR HANDRAIL, REF. STRUCTURAL FOR STEPS
- 90 GRANITE BOULDER, REF. 7/A15E-526
- 91 AGGREGATE SPLASH PAD
- 93 STORMWATER PLANTER, REF. LANDSCAPING
- A71 LAKE STATION - SOUTH PLATFORM GRANITE SCULPTURE
- A90xx CONCRETE STAMPING - "XX" NUMBER REFERS TO SITE SPECIFIC TEXT IDENTIFIED BY ARTIST

ENLARGED PLANS - SE LAKE ROAD 1
 SCALE: 1/4" = 1'-0"

NO.	DATE	BY	APPD.	REVISIONS
5-14-12	XXX	XXX		ISSUED FOR CONSTRUCTION

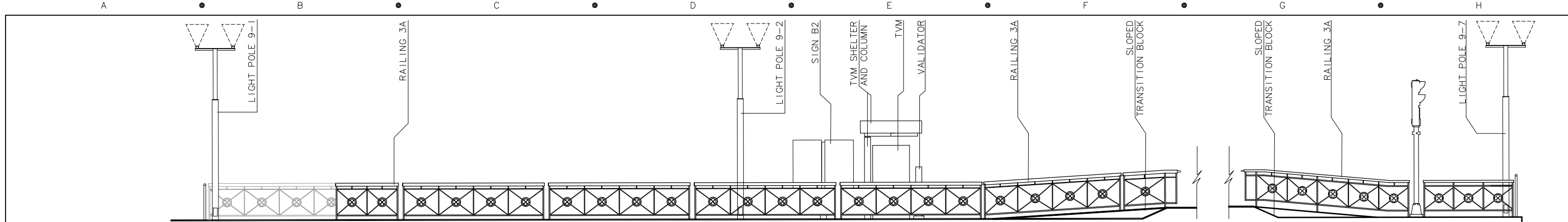
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JFC DRAWN	06-01-11 DATE
TLC CHECKED	11-03-11 DATE
APPROVED	5-14-12 DATE



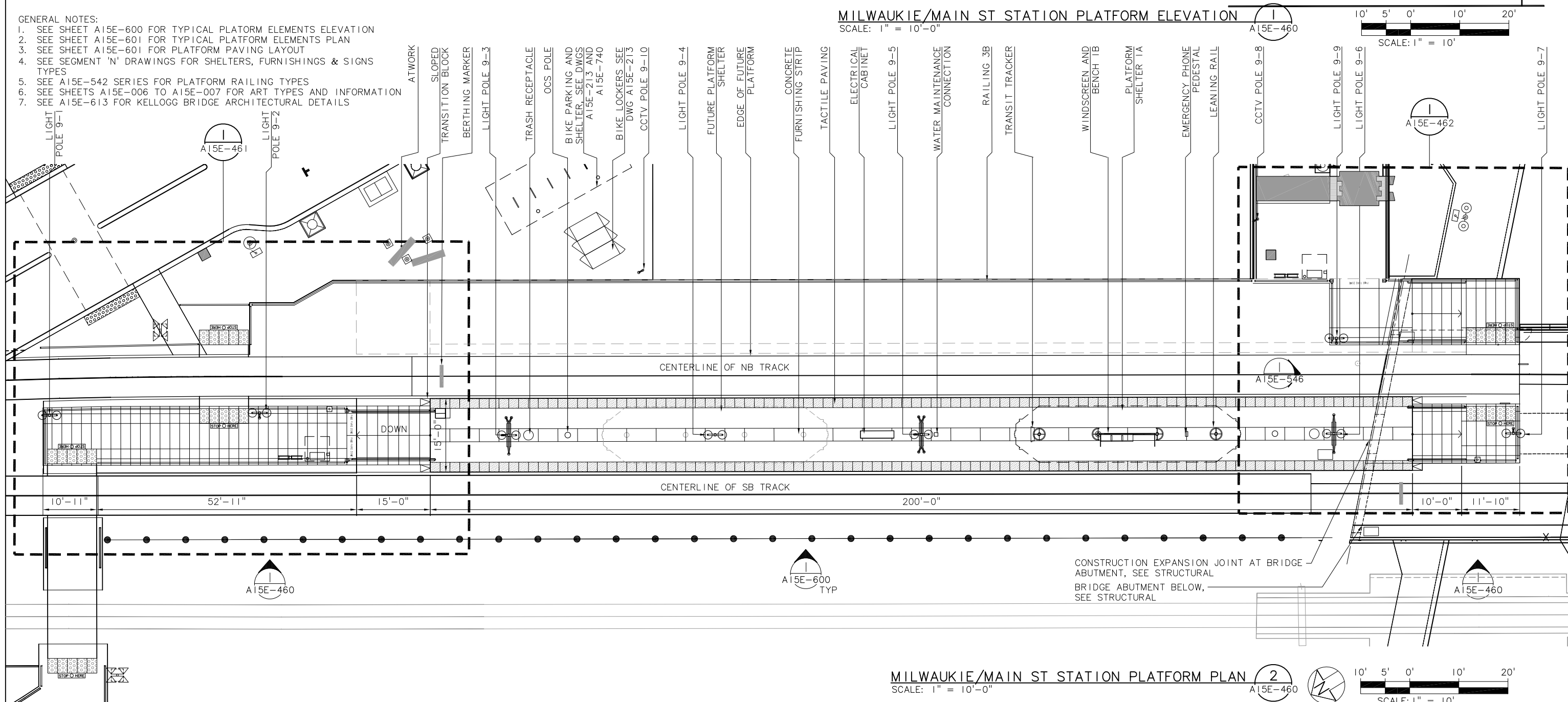
 TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON		CAPITAL PROJECTS AND FACILITIES DIVISION 710 N.E. HOLLADAY STREET PORTLAND, OREGON 97232	
 Mayer/Reed	 DAVID EVANS AND ASSOCIATES, INC.	 TRIMET	SUBMITTED: 5-14-12 DATE: 5-14-12 APPROVED: 5-14-12 DATE: 5-14-12

PORTLAND TO MILWAUKIE LRT EAST SEGMENT ARCHITECTURAL ENLARGED PLAN SE LAKE RD				Exhibit T 3			
SCALE:	1/4"=1'-0"	DRAWING NO.:	A15E-317	CONTRACT NO.:	RH100544JB	SHEET NO.:	

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 Plot Date: 3/20/2012 9:44 AM_meredith hendricks

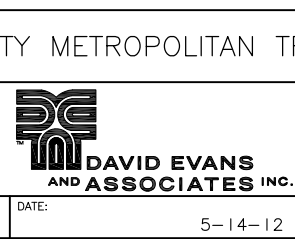


- GENERAL NOTES:
1. SEE SHEET A15E-600 FOR TYPICAL PLATFORM ELEMENTS ELEVATION
 2. SEE SHEET A15E-601 FOR TYPICAL PLATFORM ELEMENTS PLAN
 3. SEE SHEET A15E-601 FOR PLATFORM PAVING LAYOUT
 4. SEE SEGMENT 'N' DRAWINGS FOR SHELTERS, FURNISHINGS & SIGNS TYPES
 5. SEE A15E-542 SERIES FOR PLATFORM RAILING TYPES
 6. SEE SHEETS A15E-006 TO A15E-007 FOR ART TYPES AND INFORMATION
 7. SEE A15E-613 FOR KELLOGG BRIDGE ARCHITECTURAL DETAILS



NO.	DATE	BY	APPRO.	REVISIONS
	03-26-12			ISSUED FOR CONSTRUCTION

MM DESIGNED	5-01-11	DATE
MH DRAWN	5-20-11	DATE
MH CHECKED	3-08-12	DATE
APPROVED	5-14-12	DATE



TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

CAPITAL PROJECTS AND FACILITIES DIVISION
 710 N.E. HOLLADAY STREET
 PORTLAND, OREGON 97232

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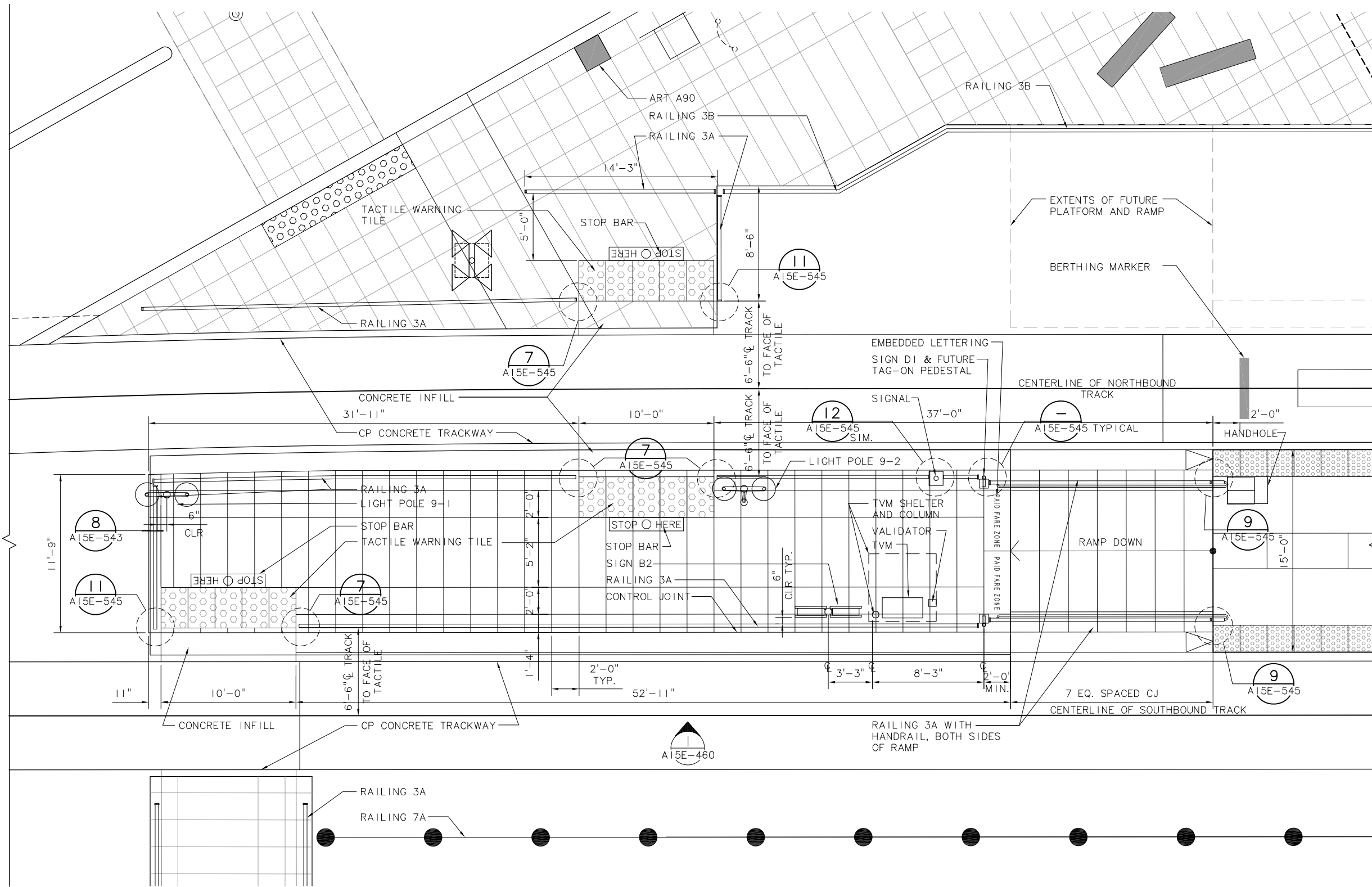
SUBMITTED: DATE: 5-14-12 APPROVED: DATE: 5-14-12

PORTLAND TO MILWAUKIE LRT
 EAST SEGMENT
 ARCHITECTURAL
 MILWAUKIE/MAIN ST STATION
 PLATFORM PLAN AND ELEVATION

Exhibit T 4

SCALE: 1" = 10'-0" DRAWING NO.: A15E-460 CONTRACT NO.: RH100544JB SHEET NO.:

P:\10_jobs\1030.01 Portland Milwaukie Light Rail\cod\Sheets\400_Segment D\A15E-461.dwg Mar. 09, 2012 - 3:08 PM meredith hendricks
 Plot Date: 3/20/2012 11:43 AM_meredith hendricks



- GENERAL NOTES:
1. SEE SHEET A15E-600 FOR TYPICAL PLATFORM ELEMENTS ELEVATION AND PLAN
 2. SEE SHEET A15E-601 FOR TYPICAL PLATFORM DETAILS
 3. SEE SEGMENT 'N' DRAWINGS FOR SHELTERS, FURNISHINGS & SIGN TYPES
 4. SEE SHEETS A15E-004 AND A15E-542 SERIES FOR PLATFORM RAILING TYPES
 5. SEE SHEETS A15E-005 FOR ART TYPES AND INFORMATION
 6. SEE TRAFFIC DRAWINGS FOR STOP BAR AND PEDESTRIAN SIGNAL INFORMATION
 7. SEE SYSTEMS DRAWINGS FOR HANDHOLES AND VAULT INFORMATION
 8. SEE CIVIL DRAWINGS FOR PRECAST CONCRETE CROSSING PANEL
 9. SEE TRAFFIC DRAWINGS AND SYSTEMS DRAWINGS FOR SIGNALS

NORTH END ENLARGED PLATFORM PLAN
 SCALE: 1/4" = 1'-0"
 A15E-461

NO.	DATE	BY	APPD.	REVISIONS
03-26-12				ISSUED FOR CONSTRUCTION

MM DESIGNED	5-01-11	DATE
MH DRAWN	03-07-12	DATE
MH CHECKED	3-07-12	DATE
APPROVED	5-14-12	DATE



TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

waterleaf architecture, interiors & planning

DAVID EVANS AND ASSOCIATES INC.

TRIOMET

CAPITAL PROJECTS AND FACILITIES DIVISION
 710 N.E. HOLLADAY STREET
 PORTLAND, OREGON 97232

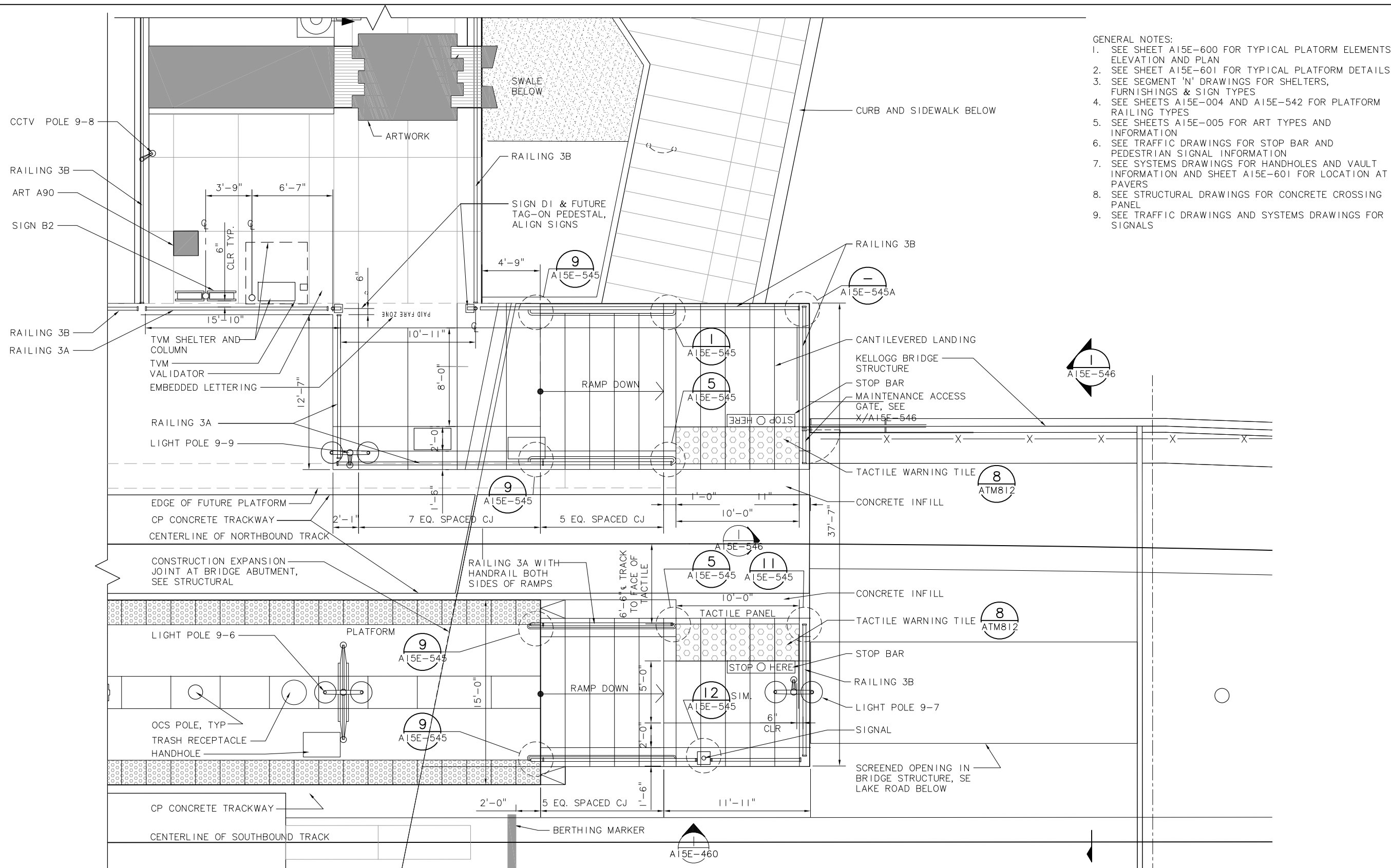
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PORTLAND TO MILWAUKIE LRT
 EAST SEGMENT
 Exhibit T 5

ARCHITECTURAL
 MILWAUKIE/MAIN ST STATION
 ENLARGED PLATFORM END PLAN

SCALE: 1/4" = 1'-0"
 DRAWING NO.: A15E-461
 CONTRACT NO.: RH100544JB
 SHEET NO.:

P:\10_jobs\1030.01 Portland Milwaukie Light Rail\cadd\Sheets\400_Segment D\A15E-462.dwg Mar. 20, 2012 - 12:16 PM meredith hendricks
 Plot Date: 3/20/2012 12:17 PM_meredith hendricks



- GENERAL NOTES:
1. SEE SHEET A15E-600 FOR TYPICAL PLATFORM ELEMENTS ELEVATION AND PLAN
 2. SEE SHEET A15E-601 FOR TYPICAL PLATFORM DETAILS
 3. SEE SEGMENT 'N' DRAWINGS FOR SHELTERS, FURNISHINGS & SIGN TYPES
 4. SEE SHEETS A15E-004 AND A15E-542 FOR PLATFORM RAILING TYPES
 5. SEE SHEETS A15E-005 FOR ART TYPES AND INFORMATION
 6. SEE TRAFFIC DRAWINGS FOR STOP BAR AND PEDESTRIAN SIGNAL INFORMATION
 7. SEE SYSTEMS DRAWINGS FOR HANDHOLES AND VAULT INFORMATION AND SHEET A15E-601 FOR LOCATION AT PAVERS
 8. SEE STRUCTURAL DRAWINGS FOR CONCRETE CROSSING PANEL
 9. SEE TRAFFIC DRAWINGS AND SYSTEMS DRAWINGS FOR SIGNALS

SOUTH END ENLARGED PLATFORM PLAN
 SCALE: 1/4" = 1'-0"

NO.	DATE	BY	APPD.	REVISIONS
	03-26-12			ISSUED FOR CONSTRUCTION

MM DESIGNED	5-01-11	DATE
MH DRAWN	3-02-12	DATE
MH CHECKED	3-02-12	DATE
APPROVED	5-14-12	DATE



TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

waterleaf architecture, interiors & planning

DAVID EVANS AND ASSOCIATES INC.

TRIOMET

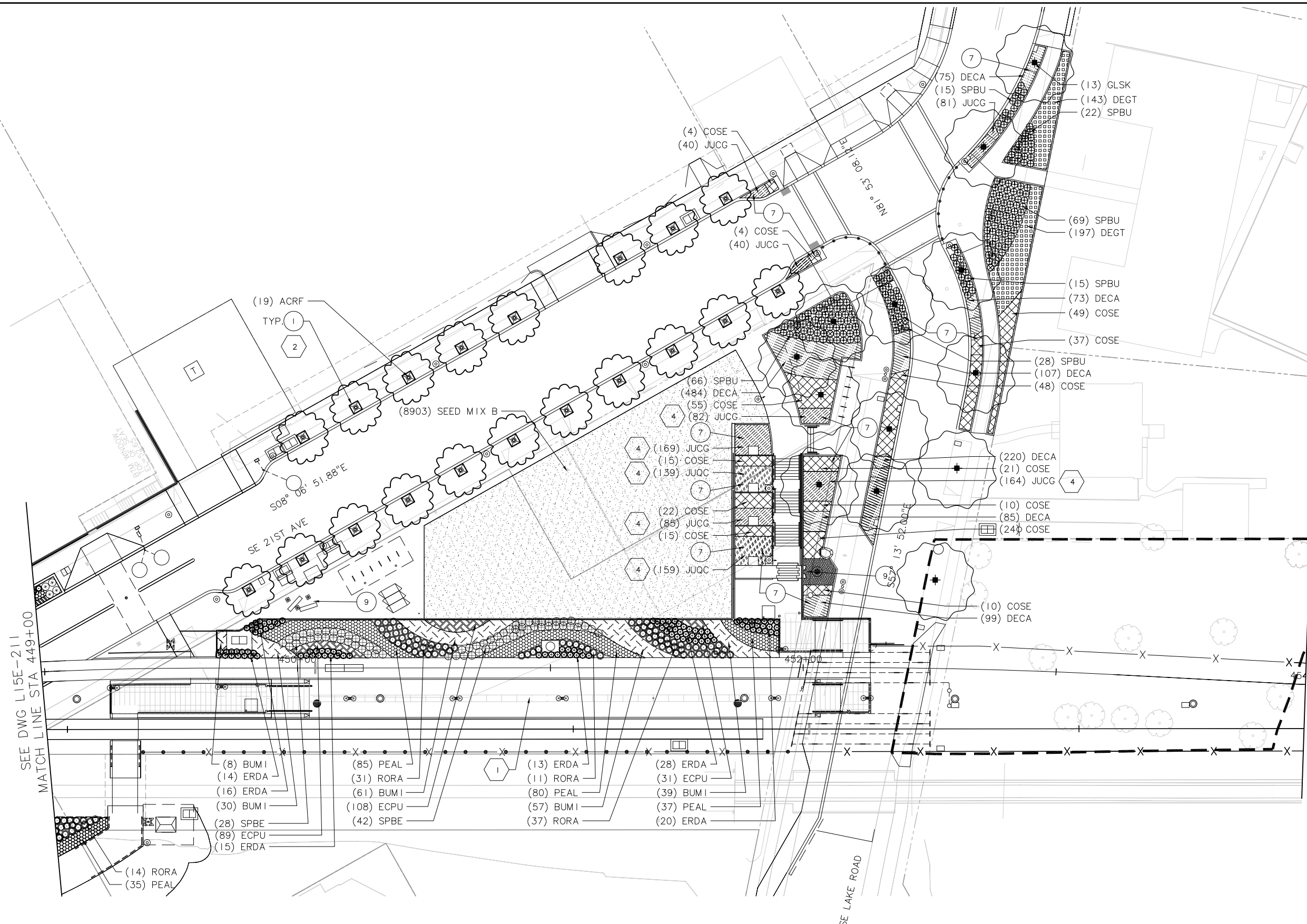
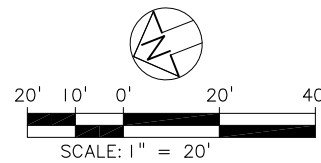
CAPITAL PROJECTS AND FACILITIES DIVISION
 710 N.E. HOLLADAY STREET
 PORTLAND, OREGON 97232

SUBMITTED: DATE: 5-14-12 APPROVED: DATE: 5-14-12

PORTLAND TO MILWAUKIE LRT
 EAST SEGMENT
Exhibit T 6

ARCHITECTURAL
 MILWAUKIE/MAIN ST STATION
 ENLARGED PLATFORM END PLAN

SCALE: 1/4" = 1'-0" DRAWING NO.: A15E-462 CONTRACT NO.: RH100544JB SHEET NO.:



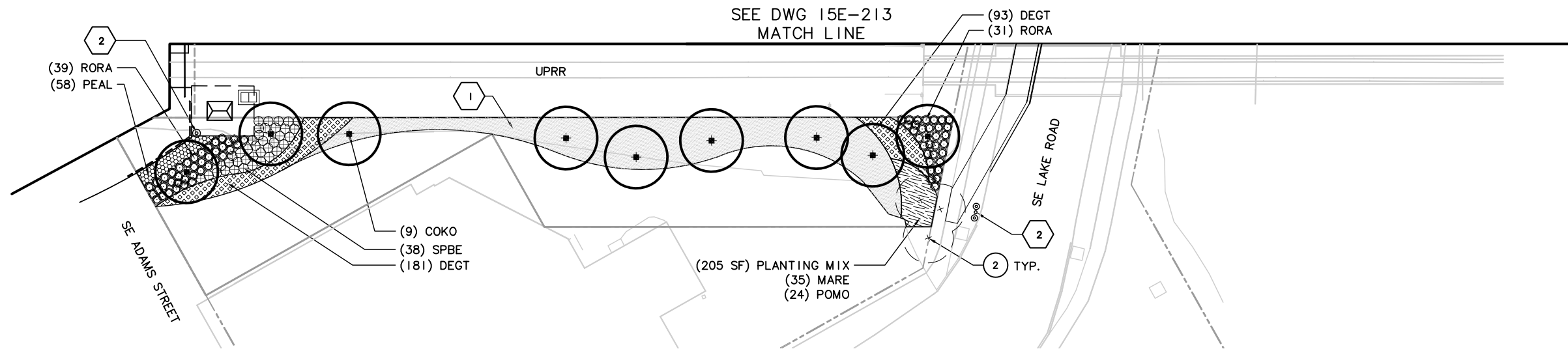
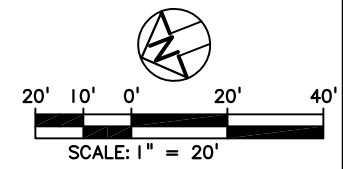
- PLANTING KEY NOTES**
REF. TO L15E-001 FOR FULL DESCRIPTION
- ① STREET TREE IN TREE WELL
 - ⑦ STORMWATER PLANTER
 - ⑨ OWNER PROVIDED ARTWORK
- SHEET NOTES:**
- ① LRT PLATFORM - MILWAUKIE/MAIN ST STATION
 - ② TREE GRATE IN TREE WELL. REFER TO DETAIL 5/L15E-300 FOR TREE ANCHORING DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR TREE GRATE DETAIL.
 - ③ NEW LIGHT POLE
 - ④ INTERPLANT IRIS TENAX (IRTE) AT 24" O.C. TOTAL QTY: 214 1 GAL. CONT.

(8) BUMI	(85) PEAL	(13) ERDA	(28) ERDA
(14) ERDA	(31) RORA	(11) RORA	(31) ECPU
(16) ERDA	(61) BUMI	(80) PEAL	(39) BUMI
(30) BUMI	(108) ECPU	(57) BUMI	(37) PEAL
(28) SPBE	(42) SPBE	(37) RORA	(20) ERDA
(89) ECPU			
(15) ERDA			
(14) RORA			
(35) PEAL			

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 Plot Date: 3/20/2012 12:52 PM shawn kummer

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SK DESIGNED	05-03-11 DATE										
CM/AP DRAWN	10-19-11 DATE										
TS CHECKED	11-01-11 DATE										
APPROVED	3-26-12 DATE										
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SUBMITTED:	DATE:										
	3-26-12										
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ISSUED FOR CONSTRUCTION	DATE:										
3-26-12 TS MF	3-26-12										
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SCALE:	DRAWING NO.:	CONTRACT NO.:	SHEET NO.:								
1"=20'	L15E-213	RH100544JB									

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 Plot Date: 4/20/2012 3:23 PM shawn kummer



PLANTING KEY NOTES
 REF. TO L15E-001 FOR FULL DESCRIPTION

(2) PRESERVE EXISTING TREES

SHEET NOTES:

(1) BARK MULCH, AS SPECIFIED

(2) LIGHT POLE

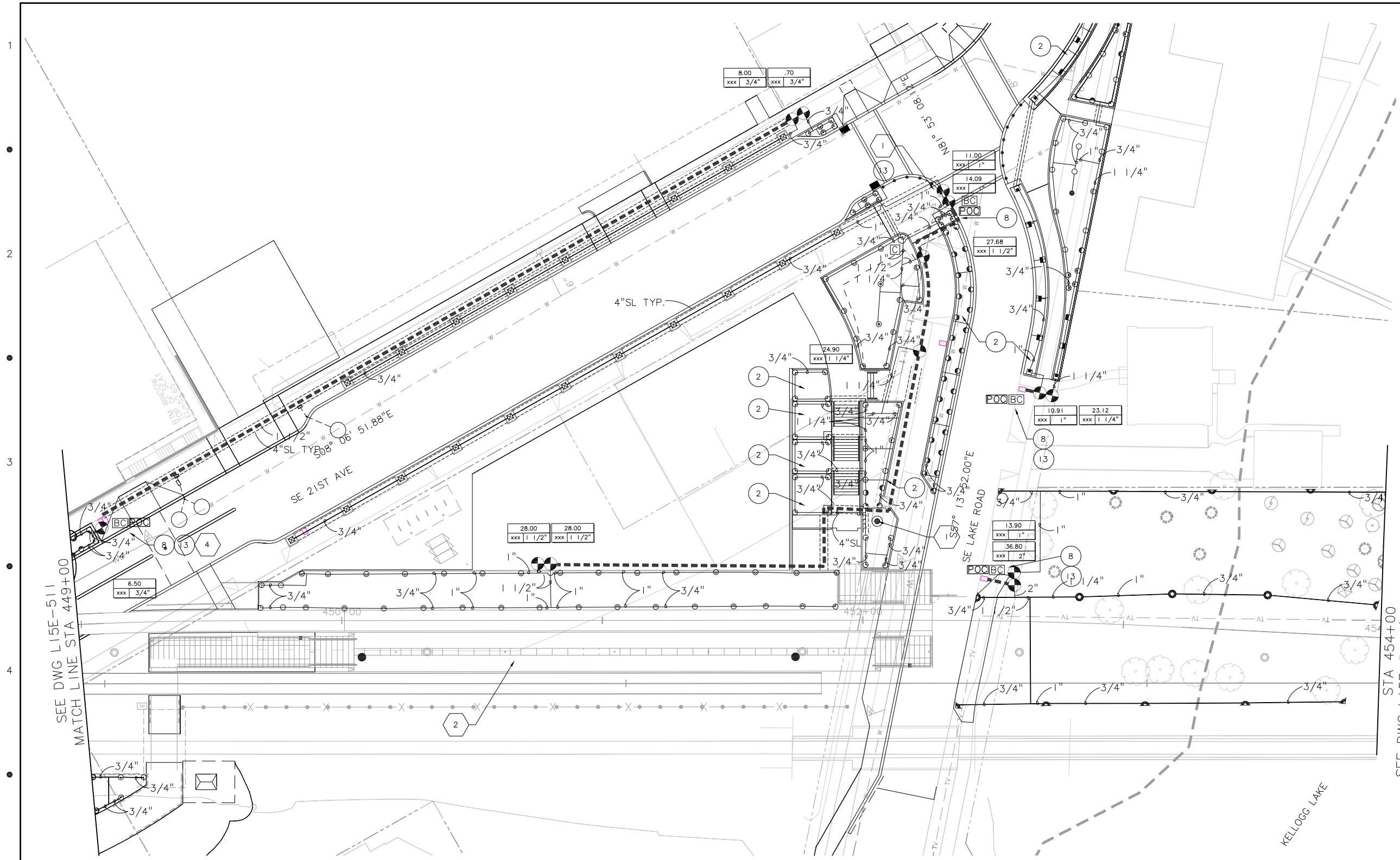
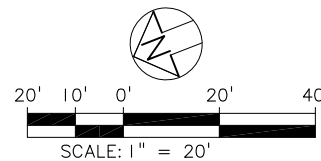
05-14-12	TS	MF	ISSUED FOR CONSTRUCTION	

SK	DESIGNED	05-03-11	DATE
CM/AP	DRAWN	10-19-11	DATE
TS	CHECKED	04-17-12	DATE
	APPROVED	05-14-12	DATE



		CAPITAL PROJECTS AND FACILITIES DIVISION 710 N.E. HOLLADAY STREET PORTLAND, OREGON 97232	
SUBMITTED:	DATE:	APPROVED:	DATE:
	05-14-12		05-14-12

PORTLAND TO MILWAUKIE LRT EAST SEGMENT LANDSCAPE PLANTING PLAN STA 449+00 TO STA 454+00			
Exhibit T 8			
SCALE:	DRAWING NO.:	CONTRACT NO.:	SHEET NO.:
1"=20'	L15E-214	RH100544JB	



SEE DWG L15E-511
MATCH LINE STA 449+00

STA 454+00
SEE DWG L15E-519 (STA 463+00)

IRRIGATION KEY NOTES
REF. TO L15E-015 FOR FULL DESCRIPTION

- (2) STORMWATER PLANTER
- (8) BATTERY OPERATED CONTROLLER
- (13) WATER METER - REFER TO UTILITY DRAWINGS FOR METER LOCATION AND INSTALLATION

SHEET NOTES:

- (1) STORMWATER TREATMENT DRAIN
- (2) LRT PLATFORM - MILWAUKIE/MAIN ST. STATION
- (3) TWO WATER METERS TO BE ADDED TO THIS LOCATION.
- (4) WATER METER TO BE LOCATED IN PLANTING AREA.

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 Plot Date: 3/20/2012 1:30 PM shawn kummer

RT	DESIGNED	12-19-11	DATE
AS/DD	DRAWN	12-19-11	DATE
MF/DE	CHECKED		DATE
3-26-12	MF/DE	MF	ISSUED FOR CONSTRUCTION
	APPROVED	3-26-12	DATE

242
 F. MICHAEL PAHA
 1988
 ARCHITECT
 OREGON

REGISTERED
 LANDSCAPE ARCHITECT
 PRELIMINARY

TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON
 CAPITAL PROJECTS AND FACILITIES DIVISION
 710 N.E. HOLLADAY STREET
 PORTLAND, OREGON 97232

SUBMITTED:	DATE:	3-26-12	APPROVED:	DATE:	3-26-12
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PORTLAND TO MILWAUKIE LRT
EAST SEGMENT
 LANDSCAPE IRRIGATION PLAN
 STA 449+00 TO STA 454+00
Exhibit T 9

SCALE:	1"=20'	DRAWING NO.:	L15E-513	CONTRACT NO.:	RH100544JB	SHEET NO.:	
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GENERAL PLANTING NOTES

1. REFER TO DRAWING NOS. L15E-002 THROUGH L15E-013 FOR PLANTING LEGENDS AND QUANTITIES.
2. REFER TO DRAWING L15E-014 FOR PLANTING SHEET LAYOUT INDEX.
3. REFER TO DRAWING NOS. L15E-300 THROUGH L15E-302, AND TRIMET DIRECTIVE DRAWINGS LTM301 AND LTM302 FOR LANDSCAPE DETAILS.
4. NUMBERS IN CIRCLES (#) REFER TO PLANTING KEY NOTES. NUMBERS IN HEXAGONS (#) REFER TO PLANTING SHEET NOTES.
5. INDIVIDUAL TEXT SYMBOL CALLOUTS ON PLAN SHEETS REFER TO PLANT SPECIES SHOWN IN LEGENDS ON SHEETS L15E-002 THROUGH L15E-007. TEXT SYMBOL CALLOUTS ARE PROVIDED FOR EACH CONTIGUOUS CLUSTER OF SIMILAR PLANTINGS PER SHEET. SOME PLANTING AREAS RECEIVE ONLY ONE TEXT SYMBOL CALLOUT PER SPECIES, PER CONTIGUOUS PLANTING AREA FOR OVERALL LEGIBILITY PER SHEET.
6. CONTRACTOR MUST FIELD VERIFY ALL EXISTING TREES IN FIELD PRIOR TO CONSTRUCTION ACTIVITIES. ALL EXISTING TREES NOT SHOWN IN CIVIL DEMO PLANS AS REMOVED ARE TO BE PROTECTED AND PRESERVED IN PLACE. REFER TO SPECIFICATION SECTION 01535 FOR TREE PRESERVATION AND PROTECTION AND EXISTING TREE PROTECTION DETAIL ON L15E-303.
7. REFER TO SPECIFICATION SECTION 32 93000 FOR LANDSCAPE PLANTINGS.
8. CONTRACTOR SHALL PROVIDE TOPSOIL, SOIL AMENDMENTS, AND COMPOST IN REQUIRED QUANTITIES TO CREATE THE PLANTING SOIL FOR PLANTED AND SEEDED AREAS IN ACCORDANCE WITH THE DETAILS AND SPECIFICATIONS AS PART OF THE CONSTRUCTION DOCUMENTATION PACKAGE. 12" DEPTH PLANTING SOIL AS SPECIFIED IN SPECIFICATION SECTION 32 93000 IS REQUIRED FOR ALL TREE AND SHRUB PLANTING AREAS (EXCEPT FOR STORMWATER FACILITIES), AND 6" DEPTH OF PLANTING SOIL FOR ALL SEEDED AREAS SHOWN ON LANDSCAPE PLANS.
9. 18" DEPTH STORMWATER FACILITY TOPSOIL, AS SPECIFIED IN SPECIFICATION SECTION 32 93000, IS REQUIRED FOR ALL STORMWATER FACILITIES, INCLUDING SWALES, PLANTERS, AND BASINS. REFER TO CIVIL DRAWINGS FOR STORMWATER FACILITY DETAILS.
10. ALL PLANTS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS AND SPECIFICATIONS PROVIDED AS PART OF THE CONSTRUCTION DOCUMENT PACKAGE.
11. QUANTITIES ARE LISTED FOR THE CONTRACTOR'S CONVENIENCE ONLY. ALL COUNTS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION. IN THE CASE OF A DISCREPANCY BETWEEN THE LEGEND AND THE PLAN, PLANTS INDICATED ON THE PLAN SHALL SUPERCEDE QUANTITIES LISTED IN THE LEGEND.
12. INSTALL AND MAINTAIN TREES FURNISHED BY TRIMET ("OWNER-FURNISHED TREES"). SEE PLANTING LEGENDS FOR SPECIES AND QUANTITIES THAT WILL BE PROVIDED. COORDINATE DELIVERY AND RECEIPT THROUGH RESIDENT ENGINEER (RE).
13. CONTRACTOR SHALL VERIFY EXACT LOCATIONS AND ROUTING OF EXISTING UNDERGROUND UTILITIES PRIOR TO STARTING EXCAVATION. REPAIR ONLY DAMAGE TO EXISTING PIPES, UTILITIES, OR RELATED FACILITIES AT THE CONTRACTOR'S EXPENSE IN A MANNER APPROVED BY THE ENGINEER.
14. ADJUST PLANT LOCATIONS SO THAT VEGETATION DOES NOT CONFLICT WITH ABOVE-GROUND UTILITIES, OR WITH TRAFFIC SIGHT LINES, SIGNS, OR OTHER APPURTENANCES.
15. PRESERVE, PROTECT, AND MAINTAIN ALL IMPROVEMENTS WITHIN WORK AREAS, INCLUDING EXISTING TREES AND VEGETATION. THOROUGHLY CLEAN ALL IMPROVEMENTS AFTER COMPLETION OF WORK.
16. PROVIDE 12" ROOT BARRIER WHERE TREES ARE WITHIN 6' OF PAVED SURFACES, CURBS, OR WALLS, AND IN ALL TREE WELLS, UNLESS OTHERWISE REQUIRED BY APPLICABLE JURISDICTIONS, OR AS INDICATED ON PLANS. REFER TO DETAIL 4, SHEET L15E-300. REFER TO STANDARD PBOT DETAIL P-581 FOR ALL STREET TREES IN CITY OF PORTLAND.
17. ALL TREES TO BE BALLED AND BURLAPPED (B&B), UNLESS OTHERWISE INDICATED IN LEGEND OR IN DRAWINGS.
18. REFER TO DEMOLITION DRAWINGS FOR TREES TO BE REMOVED.
19. CONTRACTOR SHALL PROVIDE MULCH FOR PLANTED AREAS IN ACCORDANCE WITH THE DETAILS AND SPECIFICATIONS.
20. ALL PLANTINGS LOCATED IN CITY OF PORTLAND RIGHT-OF-WAY WILL BE HAND-WATERED DURING THE 2-YEAR ESTABLISHMENT PERIOD. REFER TO IRRIGATION DRAWINGS FOR WATERING REQUIREMENTS IN ALL OTHER PLANTING AREAS OF THE PROJECT.
21. ALL TREES THAT ARE LOCATED IN SEEDED AREAS OR WHERE NO PLANTING IS SHOWN SHALL RECEIVE A 5' DIAMETER BARK MULCH RING, AT 3" DEPTH.

PLANTING KEY NOTES

1. STREET TREE IN TREE WELL - REFER TO TRIMET DIRECTIVE DRAWING 5, SHEET LTM301 FOR TREE STAKING AND PLANTING. REFER TO STANDARD PBOT DETAIL P-581 FOR ALL STREET TREES IN CITY OF PORTLAND. REFER TO DETAIL 3, SHEET L15E-300 FOR ROOT BARRIER DETAIL. INSTALL TREE GRATE AND ROOTBALL ANCHOR SYSTEM AT LOCATIONS INDICATED ON PLANS. REFER TO ARCH DRAWINGS FOR TREE GRATE DETAILS. REFER TO DETAIL 5, SHEET L15E-300 FOR ROOTBALL ANCHOR SYSTEM DETAIL.
2. PRESERVE EXISTING TREE - PRIOR TO CONSTRUCTION, INSTALL 4' HEIGHT ORANGE PLASTIC CONSTRUCTION FENCING AROUND EXISTING TREES AS INDICATED ON PLANS. TREE PROTECTION FENCING SHALL BE LOCATED AROUND EACH TREE AT THE DRIPLINE, OR AT 8' DIAMETER MINIMUM. SECURE FENCING TO STEEL POSTS PLACED 6' O.C. WITH PLASTIC TIES. REFER TO SPECIFICATION SECTION 01535 - TREE AND PLANT PROTECTION.
3. VINE PLANTING AT WALL - REFER TO DETAIL 1, SHEET L15E-300 FOR VINE PLANTING IN PLANTING AREAS, AND DETAIL 5, SHEET L15E-300 FOR VINE PLANTINGS IN PAVING.
4. MITIGATION PLANTING - REFER TO L15E-700 SERIES SHEETS FOR MITIGATION PLANTING PLANS AND DETAILS.
5. WATER QUALITY SWALE - REFER TO CIVIL DRAWINGS. PLACE 2" DEPTH OF ROCK MULCH AS SPECIFIED IN SECTION 32 9300 TO ZONE 'A' PLANTING AREAS, PLACE 2" DEPTH BARK MULCH TO ZONE 'B' PLANTING AREAS UNLESS OTHERWISE INDICATED ON PLANS. NO MULCH SHALL BE INSTALLED IN ANY SWALES LOCATED WITHIN RIGHT-OF-WAY.
6. WATER QUALITY BASIN - REFER TO CIVIL DRAWINGS. PLACE 2" DEPTH OF ROCK MULCH AS SPECIFIED IN SECTION 32 9300 TO ZONE 'A' PLANTING AREAS, PLACE 2" DEPTH BARK MULCH TO ZONE 'B' PLANTING AREAS UNLESS OTHERWISE INDICATED ON PLANS. NO MULCH SHALL BE INSTALLED IN ANY BASINS LOCATED WITHIN RIGHT-OF-WAY.
7. STORMWATER PLANTER - REFER TO CIVIL DRAWINGS. PLACE 2" DEPTH OF ROCK MULCH AS SPECIFIED IN SECTION 32 9300 THROUGHOUT FACILITY UNLESS OTHERWISE INDICATED ON PLANS. NO MULCH SHALL BE INSTALLED IN ANY PLANTERS LOCATED WITHIN RIGHT-OF-WAY.
8. EXISTING LANDSCAPE TO REMAIN - PRESERVE AND PROTECT LANDSCAPE ON PRIVATE PROPERTY. REFER TO SPECIFICATION SECTION 01535 FOR TREE AND PLANT PROTECTION.
9. OWNER-PROVIDED ARTWORK - REFER TO ARCH. DRAWINGS FOR LOCATIONS.

DETAIL REFERENCES

PLANTING DETAILS APPLY TO ALL PLANTS SHOWN ON LEGENDS AND LAYOUT SHEETS AS FOLLOWS:

TREE PLANTING AND STAKING

5
LTM301 APPLIES TO ALL DECIDUOUS AND CONIFER TREES PLANTED ON SLOPES LESS STEEP THAN 4 UNITS HORIZONTAL TO ONE UNIT VERTICAL

TREE PLANTING ON SLOPE

6
LTM301 APPLIES TO ALL DECIDUOUS AND CONIFER TREES PLANTED ON SLOPES STEEPER THAN 4 UNITS HORIZONTAL TO ONE UNIT VERTICAL

PLANTING BED GRADING

1
LTM302 TO ALL PROJECT PLANTING AREAS, EXCEPT FOR STORMWATER QUALITY FACILITIES

PLANTING

2
LTM302 APPLIES TO ALL SHRUBS AND GROUNDCOVER INSTALLED ON THE PROJECT ON SLOPES LESS STEEP THAN 4 UNITS HORIZONTAL TO ONE UNIT VERTICAL

PLANTING AT SLOPE

3
LTM302 APPLIES TO ALL SHRUBS AND GROUNDCOVER INSTALLED ON THE PROJECT ON SLOPES STEEPER THAN 4 UNITS HORIZONTAL TO ONE UNIT VERTICAL

VINE PLANTING

1
L15E-300 APPLIES TO ALL VINE PLANTINGS INSTALLED ON THE PROJECT AS SHOWN ON PLANS

VINE PLANTING IN PAVING

5
L15E-300 APPLIES TO ALL VINE PLANTINGS INSTALLED IN PAVING AREAS ON THE PROJECT AS SHOWN ON PLANS

PLANT SPACING

2
L15E-300 APPLIES TO ALL SHRUBS AND GROUNDCOVER INSTALLED IN ALL PROJECT PLANTING AREAS

ROOT BARRIER - TREES IN PLANTING STRIP

3
L15E-300 APPLIES TO ALL TREE PLANTING AREAS ADJACENT TO PAVED AREAS, AS INDICATED ON PLANS AND IN GENERAL PLANTING NOTES

TREE PLANTING - ROOTBALL ANCHOR

4
L15E-300 APPLIES TO TREE PLANTINGS LOCATED IN TREE WELLS WITH TREE GRATES AT LOCATIONS INDICATED ON PLANS.




PLANTING - 17TH AVE CORRIDOR ARTWORK

1
L15E-302 APPLIES TO ALL SHRUBS AND GRASSES INSTALLED WITHIN AND AROUND OWNER-PROVIDED ARTWORK ALONG 17TH AVENUE

TYPICAL PLANT LAYOUT PER SPACING TYPE

1
L15E-301 APPLIES TO ALL SHRUB AND GROUNDCOVER PLANTING AS REPRESENTED WITH HATCHES IN THE DRAWINGS.

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		TS DESIGNED 05-03-11 DATE					PORTLAND TO MILWAUKIE LRT EAST SEGMENT LANDSCAPE PLANTING NOTES Exhibit T 10							
		CM/AP DRAWN 08-10-11 DATE						CAPITAL PROJECTS AND FACILITIES DIVISION 710 N.E. HOLLADAY STREET PORTLAND, OREGON 97232						
		SK/TS CHECKED 11-02-11 DATE												
		APPROVED 3-26-12 DATE			SUBMITTED:		DATE: 3-26-12		APPROVED:					
3-26-12	SK/TS	MF	ISSUED FOR CONSTRUCTION				SCALE: 1"=20'		DRAWING NO.: L15E-001		CONTRACT NO.: RH100544JB		SHEET NO.:	

MASTER TREE LEGEND

DECIDUOUS TREES					
TEXT SYMBOL	BOTANICAL NAME	COMMON NAME	INSTALL SIZE	QUANTITY	
				*CF	*OF
ACCA	Acer campestre 'Evelyn'	QUEEN ELIZABETH HEDGE MAPLE	2 1/2" CAL.		7
ACCI	Acer circinatum	VINE MAPLE	7'-8', MULTI-STEM, 3 STEM MIN.	69	
ACGI	Acer ginnala 'Flame'	FLAME MAPLE	2 1/2" CAL., MULTI-STEM, 3 STEM MIN.		21
ACGR	Acer grandidentatum 'Schmidt'	ROCKY MOUNTAIN GLOW MAPLE	2 1/2" CAL.		9
ACMA	Acer macrophyllum	BIG LEAF MAPLE	2 1/2" CAL.		15
ACRF	Acer rubrum 'Franks Red'	RED SUNSET MAPLE	2 1/2" CAL.		26
ALRU	Alnus rubra	RED ALDER	2 1/2" CAL.		46
AMAL	Amelanchier alnifolia	SERVICEBERRY	2 1/2" CAL.		23
AMJF	Amelanchier laevis 'JFS-Arb' PP 15304	SPRING FLURRY SERVICEBERRY	2 1/2" CAL.		30
AMSN	Amelanchier laevis 'Snowcloud' PP 7203	SNOWCLOUD SERVICEBERRY	2 1/2" CAL.		16
ARME	Arbutus menziesii	PACIFIC MADRONE	5 GAL.	3	
BEPA	Betula papyrifera 'Renci' PP12768	RENAISSANCE REFLECTION PAPER BIRCH	2 1/2" CAL.		6
COSA	Cornus kousa 'Satomi'	SATOMI DOGWOOD	2" CAL.	2	
COEW	Cornus x 'Eddie's White Wonder'	EDDIE'S WHITE WONDER DOGWOOD	2 1/2" CAL.		26
COKO	Cornus kousa 'Chinensis'	KOUSA DOGWOOD	2 1/2" CAL.		3
CONU	Cornus nuttalli	PACIFIC DOGWOOD	5 GAL.	2	
FASY	Fagus sylvatica 'Fastigiata'	FASTIGIATE EUROPEAN BEECH	2 1/2" CAL.		23
FRLA	Fraxinus latifolia	OREGON ASH	2 1/2" CAL.		18
FRC1	Fraxinus pennsylvanica 'Cimmzam' PP8077	CIMMARON GREEN ASH	2 1/2" CAL.		30

DECIDUOUS TREES					
TEXT SYMBOL	BOTANICAL NAME	COMMON NAME	INSTALL SIZE	QUANTITY	
				*CF	*OF
FRRU	Fraxinus pennsylvanica 'Rugby'	PRAIRIE SPIRE GREEN ASH	2 1/2" CAL.		66
GIAU	Ginkgo biloba 'Autumn Gold'	AUTUMN GOLD GINKGO	2 1/2" CAL.		22
GIMG	Ginkgo biloba 'Magyar'	Magyar GINKGO	2" CAL.	18	
GIPR	Ginkgo biloba 'Princeton Sentry'	PRINCETON SENTRY GINKGO	2" CAL.		51
GLSK	Gleditsia triacanthos inermis 'Skyline'	SKYLINE HONEYLOCUST	2 1/2" CAL.		41
MAGA	Magnolia x 'Galaxy'	GALAXY MAGNOLIA	2" CAL.		70
MATR	Malus transitoria 'Schmidtcutleaf' Golden Raindrops	CUTLEAF CRABAPPLE	1 1/2" CAL.	14	
NYSY	Nyssa sylvatica	BLACK TUPELO	2 1/2" CAL.		102
PAPE	Parrotia persica	PERSIAN IRONWOOD	2 1/2" CAL.		35
PRSA	Prunus sargentii 'Columnaris'	COLUMNAR SARGENT CHERRY	2 1/2" CAL.		10
PRVI	Prunus virginiana	CHOKECHERRY	2 1/2" CAL.		14
PRCA	Prunus virginiana 'Canada Red'	CANADA RED CHOKECHERRY	2 1/2" CAL.		26
QUFR	Quercus frainetto 'Schmidt'	FOREST GREEN OAK	2 1/2" CAL.	4	95
QUGM	Quercus gambelii	GAMBEL OAK	2 1/2" CAL.		1
QUGA	Quercus garryana	OREGON WHITE OAK	A= 2 1/2" CAL. B= 3" CAL.	1	5 25
QULO	Quercus lobata	VALLEY OAK	2 1/2" CAL.		1
ULJA	Ulmus japonica x wilsoniana 'Morton'	ACCOLADE ELM	2 1/2" CAL.		18
ZEMU	Zelkova serrata 'Mussashino'	MUSSASHINO COLUMNAR ZELKOVA	2 1/2" CAL.	25	
ZESE	Zelkova serrata 'Village Green'	VILLAGE GREEN ZELKOVA	2 1/2" CAL.		41

* CF = CONTRACTOR FURNISHED OF = OWNER FURNISHED

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05-11-12	SK/TS	MF	ISSUED FOR CONSTRUCTION
TS DESIGNED	05-03-11	DATE	
CM/AP DRAWN	08-10-11	DATE	
SK/TS CHECKED	11-02-11	DATE	
APPROVED	05-14-12	DATE	

REGISTERED
LANDSCAPE ARCHITECT
PRELIMINARY

TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

GREENWORKS

DAVID EVANS AND ASSOCIATES INC.

TRIMET

CAPITAL PROJECTS AND FACILITIES DIVISION
710 N.E. HOLLADAY STREET
PORTLAND, OREGON 97232

SUBMITTED:	DATE: 05-14-12	APPROVED:	DATE: 05-14-12
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PORTLAND TO MILWAUKIE LRT EAST SEGMENT

LANDSCAPE PLANTING LEGEND **Exhibit T 11**

SCALE: 1"=20'	DRAWING NO.: L15E-002	CONTRACT NO.: RH100544JB	SHEET NO.:
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MASTER TREE LEGEND CONT'D

CONIFEROUS TREES					
TEXT SYMBOL	BOTANICAL NAME	COMMON NAME	INSTALL SIZE	QUANTITY	
				*CF	*OF
A/B 	CADE Calocedrus decurrens	INCENSE CEDAR	A=10-12' HT. B=14-16' HT.	7 119	
	CHNO Chamaecyparis nootkatensis 'Glauca Pendula'	WEeping ALASKA CEDAR	15-18' HT.	33	
	CUSE Cupressus sempervirens	ITALIAN CYPRESS	12-14' HT.	26	
A/B 	PSME Pseudotsuga menziesii	DOUGLAS FIR	A=10-12' HT. B=14-16' HT.	33 30	
	TADI Taxodium distichum 'Mickelson'	SHAWNEE BRAVE BALD CYPRESS	14' -16' HT.	26	
A/B 	THPL Thuja plicata	WESTERN RED CEDAR	A=10-12' HT. B=14-16' HT.	64 49	
A/B 	THPF Thuja plicata 'Fastigiata'	HOGAN CEDAR	A=10-12' HT. B=14-16' HT.	78 76	
A/B 	TSHE Tsuga heterophylla	WESTERN HEMLOCK	A=10-12' HT. B=14-16' HT.		

* CF = CONTRACTOR FURNISHED, OF = OWNER FURNISHED

EXISTING TREES	
	EXISTING TREE TO BE PROTECTED AND PRESERVED - SEE SPECIFICATIONS SECTION 01535. SYMBOL SIZE DOES NOT NECESSARILY REFLECT ACCURATE EXISTING CANOPY SIZE IN FIELD. CONTRACTOR MUST FIELD VERIFY CANOPY EXTENTS AND ADHERE TO TREE PRESERVATION DETAIL PER APPLICABLE JURISDICTION.

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Plot Date: 4/6/2012 4:51 PM danoe davison

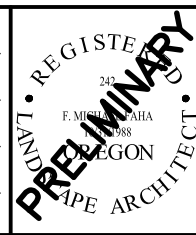
05-11-12	SK/TS	MF	ISSUED FOR CONSTRUCTION
	DESIGNED	05-03-11	DATE
	CM/AP	08-10-11	DATE
	DRAWN		
	SK/TS	11-02-11	DATE
	CHECKED		
	APPROVED	05-14-12	DATE

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CM/AP
DRAWN
08-10-11
DATE

SK/TS
CHECKED
11-02-11
DATE

APPROVED
05-14-12
DATE



TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

CAPITAL PROJECTS AND FACILITIES DIVISION
710 N.E. HOLLADAY STREET
PORTLAND, OREGON 97232

GREENWORKS

DAVID EVANS AND ASSOCIATES INC.

TRIOMET

SUBMITTED: DATE: 05-14-12 APPROVED: DATE: 05-14-12

PORTLAND TO MILWAUKIE LRT
EAST SEGMENT
LANDSCAPE PLANTING LEGEND

Exhibit T 12

SCALE: 1"=20'
DRAWING NO.: L15E-003
CONTRACT NO.: RH100544JB
SHEET NO.:

MASTER SHRUBS/GROUNDCOVER LEGEND

TEXT SYMBOL	BOTANICAL NAME	COMMON NAME	INSTALL SIZE	SPACING
⊙	Abelia x grandiflora 'Francis Mason'	FRANCIS MASON ABELIA	2 GAL.	AS SHOWN
⊖	Arbutus unedo 'Compacta'	COMPACT STRAWBERRY TREE	5 GAL.	AS SHOWN
	Arctostaphylos uva-ursi 'Massachusetts'	MASSACHUSETTS KINNICKINNICK	1 GAL.	18" O.C.
	Arctostaphylos uva-ursi	KINNICKINNICK	1 GAL.	18" O.C.
	Arctostaphylos uva-ursi 'Woods Compacta'	WOOD'S COMPACT KINNICKINNICK	1 GAL.	18" O.C.
	Berberis buxifolia 'Nana'	BOXLEAF BARBERRY	1 GAL.	18" O.C.
	Buxus microphylla 'Green Gem'	GREEN GEM BOXWOOD	1 GAL.	24" O.C.
	Calamagrostis x acutiflora 'Avalanche'	AVALANCHE FEATHER REED GRASS	1 GAL.	18" O.C.
	Calamagrostis x acutiflora 'Overdam'	VARIEGATED REED GRASS	1 GAL.	18" O.C.
	Campsis radicans 'Flava'	YELLOW TRUMPET VINE	5 GAL.	AS SHOWN STAKED
	Carex albula 'Frosty Curls'	FROSTY CURLS SEDGE	1 GAL.	18" O.C.
	Carex buchananii	LEATHERLEAF SEDGE	1 GAL.	12" O.C.
	Carex densa	DENSE SEDGE	1 GAL.	12" O.C.
	Caryopteris incana 'Sunshine Blue'	SUNSHINE BLUE CARYOPTERIS	1 GAL.	18" O.C.
	Carex morrowii 'Gold Band'	GOLD BAND JAPANESE SEDGE	1 GAL.	12" O.C.
	Carex morrowii 'Ice Dance'	ICE DANCE JAPANESE SEDGE	1 GAL.	12" O.C.
	Carex morrowii 'Variegata'	VARIEGATED JAPANESE SEDGE	1 GAL.	12" O.C.
⊙	Ceanothus thyrifolia 'Victoria'	VICTORIA CALIFORNIA LILAC	2 GAL.	AS SHOWN
	Cornus sanguinea	BLOODTWIG DOGWOOD	3 GAL.	36" O.C.
	Cornus sericea 'Kelsey'	DWARF RED-TWIG DOGWOOD	1 GAL.	24" O.C.
⊕	Cornus stolonifera	RED-TWIG DOGWOOD	3 GAL.	AS SHOWN
⊗	Cornus stolonifera 'Arctic Fire'	ARCTIC FIRE DOGWOOD	5 GAL.	AS SHOWN
	Cotoneaster adpressus 'Little Gem'	CREEPING LITTLE GEM COTONEASTER	1 GAL.	24" O.C.

TEXT SYMBOL	BOTANICAL NAME	COMMON NAME	INSTALL SIZE	SPACING
	Cotoneaster dammeri 'Lowfast'	LOWFAST BEARBERRY COTONEASTER	1 GAL.	24" O.C.
	Deschampsia cespitosa	TUFTED HAIRGRASS	1 GAL.	12" O.C.
	Deschampsia cespitosa 'Goldtau'	GOLD DEW TUFTED HAIRGRASS	1 GAL.	18" O.C.
	Echinacea purpurea 'Magnus'	MAGNUS PURPLE CONEFLOWER	1 GAL.	12" O.C.
	Eleocharis acicularis	DWARF HAIRGRASS	1 GAL.	12" O.C.
	Eleocharis palustris	CREEPING SPIKERUSH	1 GAL.	12" O.C.
	Equisetum hyemale	SCOURING RUSH	1 GAL.	12" O.C.
⊙	Erica x darleyensis 'Kramer's Rote'	KRAMER'S ROTE WINTER HEATH	2 GAL.	AS SHOWN
	Euphorbia characias ssp. characias 'Humpty Dumpty'	HUMPTY DUMPTY EUPHORBIA	1 GAL.	18" O.C.
	Festuca glauca 'Boulder Blue'	BOULDER BLUE FESCUE	1 GAL.	12" O.C.
	Festuca idahoensis	IDAHO BLUE FESCUE	1 GAL.	12" O.C.
	Fragaria chiloensis	BEACH STRAWBERRY	1 GAL.	12" O.C.
	Helictotrichon sempervirens	BLUE OAT GRASS	1 GAL.	18" O.C.
	Hesperaloe parviflora 'Yellow'	YELLOW FALSE YUCCA	1 GAL.	24" O.C.
⊙	Holodiscus discolor	OCEAN SPRAY	5 GAL.	AS SHOWN
⊙	Hydrangea quercifolia 'Pee Wee'	PEE WEE OAK LEAF HYDRANGEA	1 GAL.	AS SHOWN
⊗	Ilex crenata 'Convexa'	CONVEXA JAPANESE HOLLY	1 GAL.	AS SHOWN
⊙	Ilex vomitoria 'Stokes Dwarf'	STOKES DWARF YAUPON HOLLY	1 GAL.	AS SHOWN
---	Iris tenax	OREGON IRIS	1 GAL.	12" O.C.
	Juncus effusus	COMMON RUSH	1 GAL.	12" O.C.

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 Plot Date: 4/6/2012 4:51 PM danee davison

05-14-12	SK/TS	MF	ISSUED FOR CONSTRUCTION
	TS	05-03-11	DATE
	CM/AP	08-10-11	DATE
	SK/TS	11-02-11	DATE
	APPROVED	05-14-12	DATE

REGISTERED
 LANDSCAPE ARCHITECT
 F. MICHAEL SAHA
 2488
 SEASIDE, OREGON

PRELIMINARY

		CAPITAL PROJECTS AND FACILITIES DIVISION 710 N.E. HOLLADAY STREET PORTLAND, OREGON 97232	
			TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON
SUBMITTED:	DATE:	APPROVED:	DATE:
	05-14-12		05-14-12

PORTLAND TO MILWAUKIE LRT EAST SEGMENT LANDSCAPE PLANTING LEGEND				Exhibit T 13	
SCALE:	DRAWING NO.:	CONTRACT NO.:	SHEET NO.:		
1"=20'	L15E-004	RH100544JB			

MASTER SHRUBS/GROUNDCOVER LEGEND CONT'D

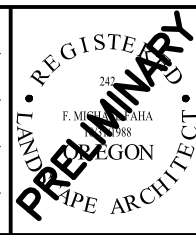
TEXT SYMBOL	BOTANICAL NAME	COMMON NAME	INSTALL SIZE	SPACING
	JUQC	Juncus effusus 'Quartz Creek'	1 GAL.	12" O.C.
	JUEN	Juncus ensifolius	1 GAL.	12" O.C.
	JUPA	Juncus patens	1 GAL.	12" O.C.
	JUCG	Juncus patens 'Carmen's Gray'	1 GAL.	12" O.C.
	JUEB	Juncus patens 'Elk Blue'	1 GAL.	12" O.C.
	JUTE	Juncus tenuis	1 GAL.	12" O.C.
	LEFO	Leucothoe fontanesiana 'Nana'	2 GAL.	AS SHOWN
	LIBB	Liriope muscari 'Big Blue'	1 GAL.	12" O.C.
	LIMU	Liriope muscari 'Evergreen Giant'	1 GAL.	12" O.C.
	LOIN	Lonicera involucrata	5 GAL.	AS SHOWN
	LOPI	Lonicera pileata	1 GAL.	AS SHOWN
	MAAQ	Mahonia aquifolium	3 GAL.	AS SHOWN
	MAAQ	Mahonia aquifolium	3 GAL.	24" O.C.
	MACO	Mahonia aquifolium 'Compacta'	2 GAL.	24" O.C.
	MANE	Mahonia nervosa	2 GAL.	AS SHOWN
	MARE	Mahonia repens	1 GAL.	18" O.C.
	MYCA	Myrica californica	5 GAL.	AS SHOWN
	NAFO	Narcissus 'Fortissimo'	3 BULBS	12" O.C.
	PATR	Parthenocissus tricuspidata	5 GAL.	AS SHOWN STAKED
	PEAL	Pennisetum alopecuroides 'Hameln'	1 GAL.	24" O.C.
	PHLE	Philadelphus lewisii	5 GAL.	AS SHOWN
	PHCA	Physocarpus capitatus	5 GAL.	AS SHOWN

TEXT SYMBOL	BOTANICAL NAME	COMMON NAME	INSTALL SIZE	SPACING
	POMU	Polystichum munitum	2 GAL.	AS SHOWN
	RHMA	Rhododendron macrophyllum	5 GAL.	AS SHOWN
	RISA	Ribes sanguineum	3 GAL.	AS SHOWN
	RORA	Rosa 'Radcor'	3 GAL.	AS SHOWN
	ROCS	Rosa 'Radsun'	1 GAL.	AS SHOWN
	RONU	Rosa nutkana	3 GAL.	AS SHOWN
	RUHI	Rudbeckia hirta 'Goldsturm'	1 GAL.	18" O.C.
	SASC	Salix scouleriana	6' MIN. HT.	36/100 SF
	SALS	Salix scouleriana	LIVE STAKES	5' O.C.
	SARA	Sambucus racemosa	3 GAL.	AS SHOWN
	SPBE	Spiraea betulifolia 'Tor'	1 GAL.	AS SHOWN
	SPBU	Spiraea x bumalda 'Gold Flame'	1 GAL.	AS SHOWN
	SPDE	Spiraea densiflora	2 GAL.	24" O.C.
	SPDO	Spiraea douglasii	3 GAL.	AS SHOWN
	SPJA	Spiraea japonica 'Goldmound'	1 GAL.	AS SHOWN
	SYMO	Symphoricarpos mollis	2 GAL.	24" O.C.
	VAOV	Vaccinium ovatum	3 GAL.	24" O.C.
	VIDA	Viburnum davidii	2 GAL.	AS SHOWN
	VIED	Viburnum edule	2 GAL.	AS SHOWN
	VITI	Viburnum tinus 'Spring Bouquet'	5 GAL.	AS SHOWN

\\gwo1\Public\Projects\110116_PMLR_Design\02_Current_Drawings\GRN_Sheets\General\15E-005.dwg Apr. 04, 2012 11:22 AM danoe davison
 Plot Date: 4/6/2012 4:51 PM danoe davison

05-11-12	SK/TS	MF	ISSUED FOR CONSTRUCTION	

DESIGNED	TS	05-03-11
DRAWN	CM/AP	08-10-11
CHECKED	SK/TS	11-02-11
APPROVED		05-14-12



TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

GREENWORKS **DAVID EVANS AND ASSOCIATES INC.**

CAPITAL PROJECTS AND FACILITIES DIVISION
 710 N.E. HOLLADAY STREET
 PORTLAND, OREGON 97232

TRI MET

SUBMITTED: DATE: 05-14-12 APPROVED: DATE: 05-14-12

PORTLAND TO MILWAUKIE LRT EAST SEGMENT

LANDSCAPE PLANTING LEGEND **Exhibit T 14**

SCALE: 1"=20' DRAWING NO.: L15E-005 CONTRACT NO.: RH100544JB SHEET NO.:



MASTER PLANTING MIXES LEGEND CONT'D

MIX G						
NOTES: OAK MIX						
TEXT SYMBOL	BOTANICAL NAME	COMMON NAME	INSTALL SIZE	SPACING	LAYOUT	PERCENTAGE
BADE	Balsamorhiza deltoidea	BALSAMROOT	1 GAL.	18" O.C.	GROUPS OF 3, 5, OR 7	5%
BRCA	Bromus carinatus	CALIFORNIA BROME	1 GAL.	18" O.C.	GROUPS OF 9, 12, OR 15	20%
CAQU	Camassia quamash	COMMON CAMAS	1 GAL.	18" O.C.	GROUPS OF 3, 5, OR 7	5%
FERO	Festuca roemerii	ROEMER'S FESCUE	1 GAL.	18" O.C.	GROUPS OF 9, 12, OR 15	20%
FERU	Festuca rubra	RED FESCUE	1 GAL.	18" O.C.	GROUPS OF 9, 12, OR 15	20%
FRCH	Fragaria chiloensis	BEACH STRAWBERRY	1 GAL.	18" O.C.	GROUPS OF 3, 5, OR 7	5%
RAOC	Ranunculus occidentalis	WESTERN BUTTERCUP	1 GAL.	18" O.C.	GROUPS OF 3, 5, OR 7	5%
SYMO	Symphoricarpos mollis	CREEPING SNOWBERRY	2 GAL.	18" O.C.	GROUPS OF 9, 12, OR 15	20%






MIX H						
NOTES: PLAZA MIX						
TEXT SYMBOL	BOTANICAL NAME	COMMON NAME	INSTALL SIZE	SPACING	LAYOUT	PERCENTAGE
AQFO	Aquilegia formosa	RED COLUMBINE	1 GAL.	18" O.C.	GROUPS OF 3, 5, OR 7	5%
ASSU	Aster subspicatus	DOUGLAS' ASTER	1 GAL.	18" O.C.	GROUPS OF 3, 5, OR 7	5%
CAQU	Camassia quamash	COMMON CAMAS	1 GAL.	18" O.C.	GROUPS OF 3, 5, OR 7	5%
DEGT	Deschampsia cespitosa 'Goldtau'	GOLD DEW TUFTED HAIRGRASS	1 GAL.	18" O.C.	GROUPS OF 9, 12, OR 15	30%
FEID	Festuca idahoensis	IDAHO FESCUE	1 GAL.	18" O.C.	GROUPS OF 9, 12, OR 15	30%
KOCR	Koehleria cristata	JUNE GRASS	1 GAL.	18" O.C.	GROUPS OF 9, 12, OR 15	20%
SIID	Sisyrinchium idahoense	BLUE-EYED GRASS	1 GAL.	18" O.C.	GROUPS OF 5, 7, OR 9	5%

SEED MIX A			
NOTES: PERMANENT SEED MIX			
BOTANICAL NAME	COMMON NAME	% PLS	APPLICATION RATE
Achillea millefolium	COMMON YARROW	1.5%	2 LBS./ 1,000 SF
Alyssum maritimum	DWARF WHITE ALLYSSUM	2.5%	
Armeria maritima	SEA PINK	2%	
Bellis perennis	DWARF ENGLISH DAISY	1%	
Festuca ovina var. azay blue	AZAY BLUE SHEEP FESCUE	18%	
Festuca rubra var. sealink	SEALINK SLENDER CREEPING RED FESCUE	55%	
Limnanthes douglasii	DOUGLAS MEADOWFOAM	4%	
Nemophila menziesii	BABY BLUE EYE'S	5%	
Trifolium fragiferum	STRAWBERRY CLOVER	8%	
Trifolium repens	MICRO CLOVER	3%	

SEED MIX B			
NOTES: 1. PROTOME 705 PDX BY HOBBS & HOPKINS 2. PERCENTAGES OF SPECIES NOT AVAILABLE, ONLY AVAILABLE AS PROPRIETARY BLEND			
BOTANICAL NAME	COMMON NAME	% PLS	APPLICATION RATE
Achillea millefolium	COMMON YARROW	N/A	1.5-2 LBS./ 1,000 SF
Festuca ovina duriuscula	HARD FESCUE	N/A	
Lobularia maritima	SWEET ALYSSUM	N/A	
Lolium perenne	DWARF PERENNIAL RYEGRASS	N/A	
Trifolium fragiferum	STRAWBERRY CLOVER	N/A	
Trifolium repens	MICRO CLOVER	N/A	

LANDSCAPE MATERIALS	
	TYPE
	BARK MULCH AS SPECIFIED IN SPECIFICATION SECTION 32 9300
	ROUNDED RIVER ROCK MULCH AS SPECIFIED IN SPECIFICATION SECTION 32 9300

\\gw01\Public\Projects\110116_PMLR_Design\02_Current_Drawings\01_CAD\02_Current_Drawings\GRN\Sheets\General\15E-007.dwg Apr. 02, 2012 1:28 PM danoe davison
 Plot Date: 4/6/2012 4:51 PM danoe davison

		TS DESIGNED 05-03-11 DATE	 <p>REGISTERED LANDSCAPE ARCHITECT PRELIMINARY</p>	 TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON	 GREENWORKS	 DAVID EVANS AND ASSOCIATES INC.	 TRI-MET	CAPITAL PROJECTS AND FACILITIES DIVISION 710 N.E. HOLLADAY STREET PORTLAND, OREGON 97232	PORTLAND TO MILWAUKIE LRT EAST SEGMENT LANDSCAPE PLANTING LEGEND Exhibit T 16		
		CM/AP DRAWN 08-10-11 DATE									
		SK/TS CHECKED 11-02-11 DATE									
		ISSUED FOR CONSTRUCTION									
		APPROVED 05-14-12 DATE									
				SUBMITTED:	DATE: 05-14-12	APPROVED:	DATE: 05-14-12	SCALE: 1"=20'	DRAWING NO.: L15E-007	CONTRACT NO.: RH100544JB	SHEET NO.:

Mar 20, 2012 10:49am
 Rhielden
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ARCHITECTURAL PLAN NOTES

- 59 FENCE - TYPE 9A/9C - 48" WELDED WIRE FENCE, REF. 3/A15E-562
- 60A FENCE - TYPE 9A - 48" WELDED WIRE FENCE, REF. 3/A15E-560
- 60B FENCE - TYPE 9B - 72" WELDED WIRE FENCE, REF. 1/A15E-560
- 60C FENCE - TYPE 9C - 48" GALVANIZED WELDED WIRE FENCE, REF. 3/A15E-560
- 60D FENCE - TYPE 9D - 72" GALVANIZED WELDED WIRE FENCE, REF. 1/A15E-560
- 61A FENCE - TYPE 10A - CL4, 48" CHAIN LINK FENCE, REF. ODOT STD DWG RD815
- 61B FENCE - TYPE 10B - CL6, 72" CHAIN LINK FENCE, REF. ODOT STD DWG RD815
- 61C FENCE GATE - TYPE 10 - CHAIN LINK FENCE GATE, REF. ODOT STD DWG RD815
- 61D FENCE - TYPE 10C - CL8R 96" CHAIN LINK FENCE, REF. ODOT STD DWG DTL 1810
- 61E FENCE - TYPE 10E - CL4, 48" CHAIN LINK FENCE, BLACK VINYL COATED, REF ODOT STD DWG RD815
- 62A FENCE - THROW BARRIER, WWM FENCING, REF. STRUCTURAL
- 62B FENCE - THROW BARRIER, MLK VIADUCT, REF. 1/A15E-563
- 62C FENCE - THROW BARRIER, CONCRETE BARRIER MOUNTED, REF. ODOT STD DWG 1830
- 63 FENCE - SCREEN, 72" WELDED WIRE FENCE, REF. 2/A15E-560
- 64 FENCE - TYPE 11 - 72" WOOD FENCE, REF A15E-564
- 65 FENCE - MAINTENANCE RAIL - REF. STRUCTURAL S15E-1004
- 66A GATE - WELDED WIRE FENCE, MATCH FENCE HEIGHT, REF. 1/A15E-561
- 66B GATE - LOCKABLE GATE AT CHAIN LINK FENCE / RAILING
- 66C GATE - ODOT STANDARD REF. 1/A15E-548
- 66D GATE - FIRE ACCESS REF. 1/A15E-547
- 66E GATE - LOCKABLE GATE AT WOOD FENCE, REF A15E-564
- 67 BOLLARD IN BALLAST TRACK, REF. 2/A15E-550
- 68 FENCE TRANSITION, REF. 2/A15E-562
- 69 NOT USED
- 70 NOT USED
- 71 NOT USED
- 72 NOT USED
- 73 NOT USED
- 74 NOT USED
- 75 NOT USED
- 76 NOT USED
- 77 NOT USED
- 78 NOT USED

- 79 NOT USED
- 80 RETAINING WALL, REF. STRUCTURAL
- 81 NOT USED
- 82 GABION RETAINING WALL, REF. STRUCTURAL
- 83 CONCRETE BARRIER, REF. CIVIL
- 84 P.C.C. STEPS WITH HANDRAIL, REF. 2/A15E-549 FOR HANDRAIL, REF. STRUCTURAL FOR STEPS
- 85 RR SAFETY WALL, REF. STRUCTURAL
- 86 SOUND WALL, REF. CIVIL / STRUCTURAL
- 87 MASONRY WALL, REF. LANDSCAPE
- 88 PARK & RIDE SIGN, REF. SEGMENT N DRAWINGS
- 89 VINE PLANTING PIT, REF. 3/A15E-522
- 90 GRANITE BOULDER, REF. 7/A15E-526
- 91 AGGREGATE SPLASH PAD, REF. 3/A15E-522
- 92 SAWCUT STREET TREE PLANTER FROM EXISTING SIDEWALK
- 93 STORMWATER PLANTER, REF. LANDSCAPING
- 94 PLANTING AREA, REF. CIVIL / LANDSCAPING
- 95 TROLLEY TRAIL, REF. CIVIL
- 96 PROPOSED BUS STOP (N.I.C.)
- 97 EXISTING BUS STOP TO REMAIN (N.I.C.)
- 98 PRESERVE AND PROTECT EXISTING TREE, REF. LANDSCAPING
- 99 UTILITY POLE

ART PLAN NOTES

- REF. ART MATRIX SHEETS A15E-010 AND A15E-011 FOR MORE INFORMATION
- A10 OMSI STATION - VIDEO DISPLAY AT SHELTER
 - A20 CLINTON STATION - LARGE FREE STANDING STEEL SCULPTURE
 - A21 CLINTON STATION - SMALL STEEL SCULPTURE
 - A30 POWELL UNDERPASS - TBD
 - A40 17TH AVE CORRIDOR - BOAT SHAPED STEEL SCULPTURES
 - A50 BYBEE STATION - KINETIC ILLUMINATED SCULPTURE
 - A60 TACOMA STATION PARK AND RIDE - LARGE SCALE "EARTH CAST" SCULPTURES
 - A70 LAKE STATION - NORTH PLATFORM GRANITE SCULPTURE
 - A71 LAKE STATION - SOUTH PLATFORM GRANITE SCULPTURE
 - A80 PARK STATION PARK AND RIDE - LARGE SCALE SCULPTURE
 - A90 xx CONCRETE STAMPING - "XX" NUMBER REFERS TO SITE SPECIFIC TEXT IDENTIFIED BY ARTIST
 - A100 KELLOGG BRIDGE - "BOTTS" ADHERED TO UNDERSIDE OF BRIDGE STRUCTURE
 - A101 SHELTER COLUMN TREATMENT
 - A102 BRIDGE ABUTMENT ART - REF. PMLRTB CONTRACT DWGS.

NO.	DATE	BY	CHK.	APPROVED
	5-14-12	XXX	XXX	ISSUED FOR CONSTRUCTION

JMS	06-01-11
DESIGNED	DATE
JFC	06-01-11
DRAWN	DATE
TLC	11-01-11
CHECKED	DATE
APPROVED	5-14-12
	DATE

PRELIMINARY

	CAPITAL PROJECTS AND FACILITIES DIVISION 710 N.E. HOLLADAY STREET PORTLAND, OREGON 97232
SUBMITTED:	DATE: 5-14-12
APPROVED:	DATE: 5-14-12




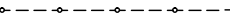

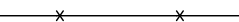


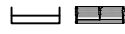

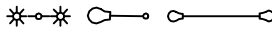







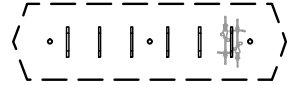






PORTLAND TO MILWAUKIE LRT EAST SEGMENT Exhibit T 18 ARCHITECTURAL GENERAL NOTES / ABBREVIATIONS AND LEGEND			
SCALE:	DRAWING NO.:	CONTRACT NO.:	SHEET NO.:
NONE	A15E-005	RH100544JB	

Mar 20, 2012 10:50am

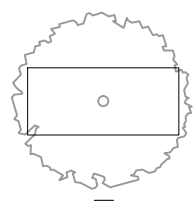
Rheiden

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LEGEND

- ART – CONCRETE STAMPING 
- BICYCLE TRAFFIC MARKING, REF. TRAFFIC PLANS 
- BOLLARD 
- BOLLARD IN BALLAST TRACK 
- COLORED P.C.C. 
- FENCING 
- FIRE HYDRANT 
- FLEXIBLE POROUS PAVING 
- FREESTANDING BENCH 
- GRAVEL 
- LIGHT 
- LIMIT OF WORK 
- MORTAR SET COBBLE PAVING 
- OCS POLE 
- PEDESTRIAN RAMP 
- PRECAST CONCRETE PAVERS 
- PRECAST TACTILE PAVERS 
- PROPOSED BIKE RACKS 
- PROPOSED BIKE RACKS WITH BIKE SHELTER 
- RAILINGS 
- RETAINING WALL 
- SHELTER – REF PLANS FOR TYPE 
- TACTILE WARNING 
- TRASH RECEPTACLE 
- TRAFFIC SIGNAL POLE 

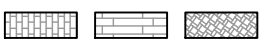
TREE AT PLANTER



TREE GRATE – TYPE 1, 4'X4'



UNIT PAVERS





UTILITY POLE



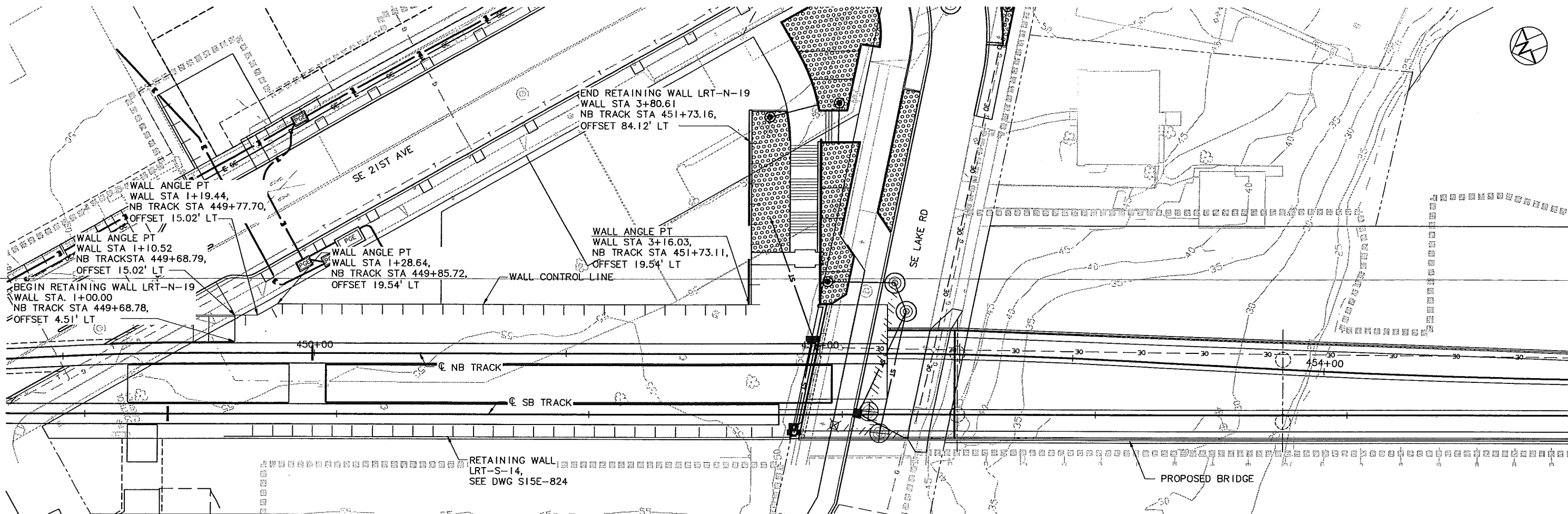
NO.	DATE	BY	APPD.	REVISIONS
5-14-12	XXX	XXX		ISSUED FOR CONSTRUCTION

JMS	06-01-11
DESIGNED	DATE
SPT	06-01-11
DRAWN	DATE
TLC	11-04-11
CHECKED	DATE
APPROVED	5-14-12
	DATE



 TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON		Mayer/Reed		 DAVID EVANS AND ASSOCIATES INC.		TRI MET		CAPITAL PROJECTS AND FACILITIES DIVISION 710 N.E. HOLLADAY STREET PORTLAND, OREGON 97232	
SUBMITTED:	DATE:	APPROVED:	DATE:	SUBMITTED:	DATE:	APPROVED:	DATE:	SUBMITTED:	DATE:
	5-14-12		5-14-12						

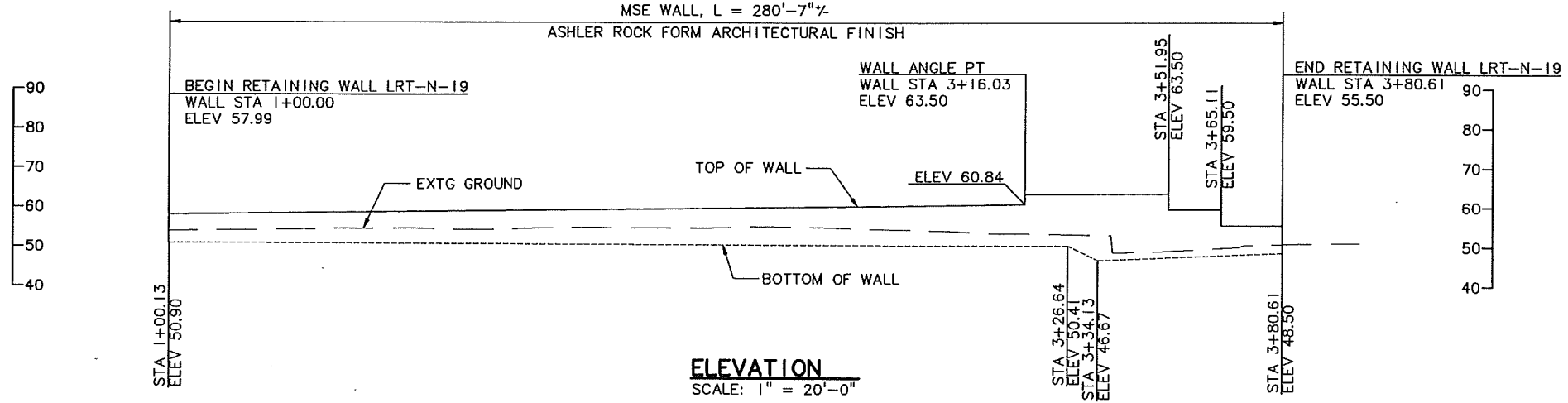
PORTLAND TO MILWAUKIE LRT EAST SEGMENT				Exhibit T 20	
ARCHITECTURAL LEGEND					
SCALE:	NONE	DRAWING NO.:	A15E-007	CONTRACT NO.:	RH100544JB
SHEET NO.:					



GENERAL NOTES:

1. WALL CONTROL LINE IS THE FRONT FACE OF WALL AT TOP OF BALLAST, UNLESS NOTED OTHERWISE.

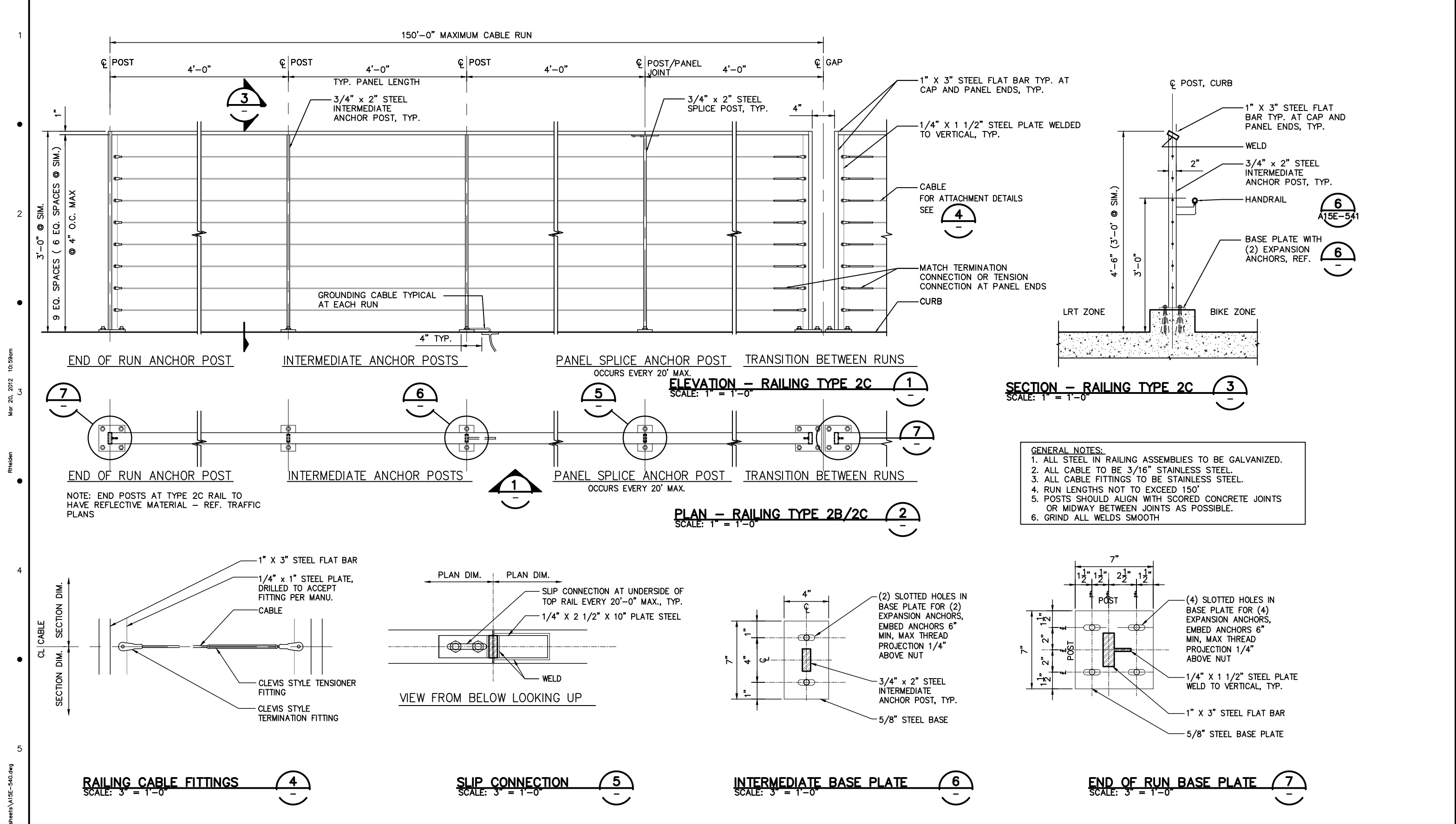
PLAN
SCALE: 1" = 20'-0"



NOTE:
ALL HORIZONTAL DIMENSIONS MEASURED ALONG WALL CONTROL LINE

R:\15-CD DUMP\15E-EAST\90% FINAL DESIGN\10- Structural\15E-823.dwg, 11/13/2011 11:28:41 AM, mcbirdej

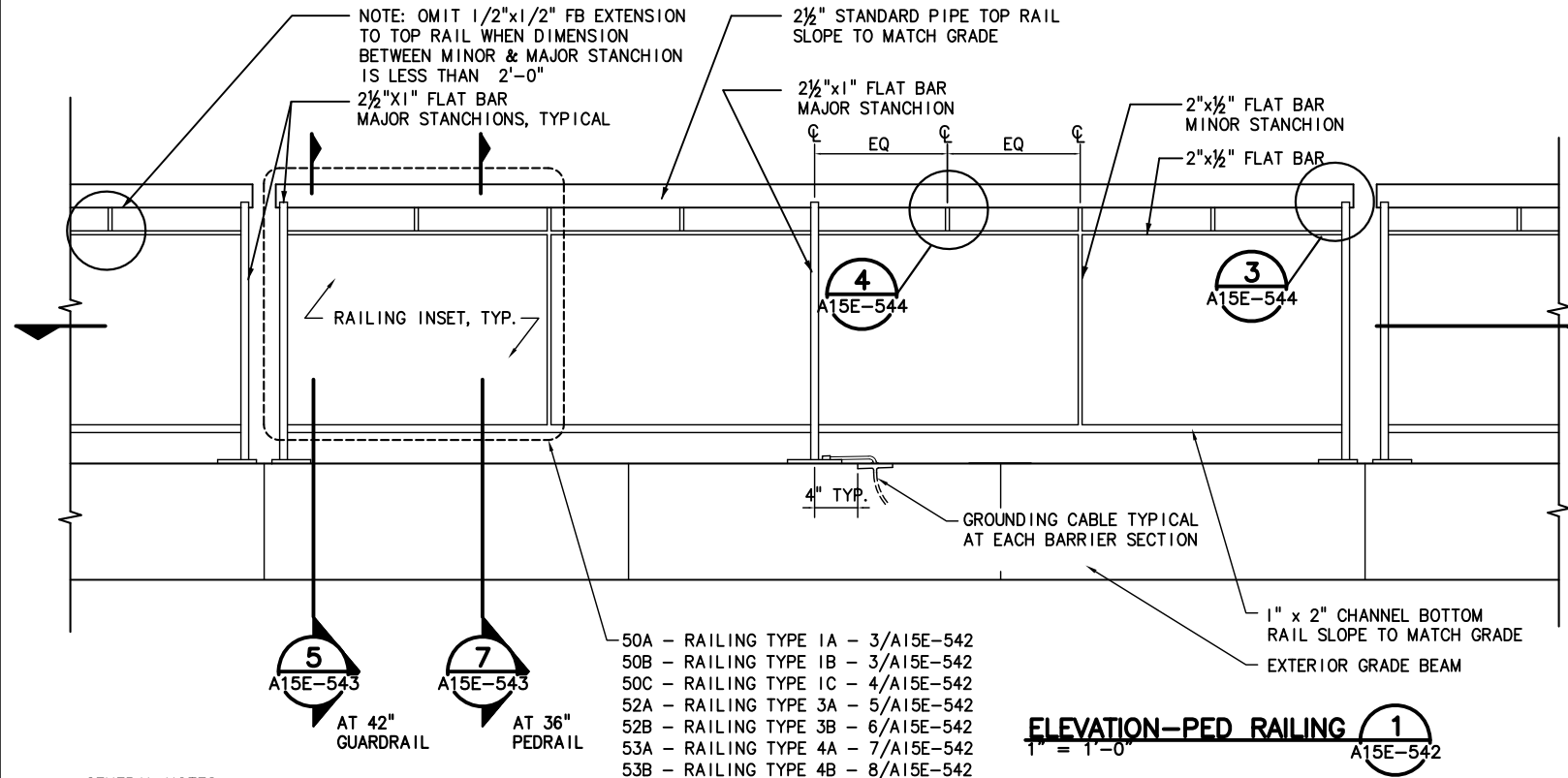
<p>90% FINAL DESIGN 11-28-11</p>				<p>GAP DESIGNED 4/27/11 DATE</p>		<p>TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON</p>				<p>PORTLAND TO MILWAUKIE LRT EAST SEGMENT Exhibit T 21 STRUCTURAL MILWAUKIE - RETAINING WALLS PLAN AND ELEVATION - LRT-N-19</p>					
				<p>JJC DRAWN 5/4/11 DATE</p>										<p>DAVID EVANS AND ASSOCIATES INC.</p>	
<p>NO. DATE BY APPD. REVISIONS</p>		<p>CHECKED DATE</p>		<p>APPROVED DATE</p>		<p>DATE</p>		<p>DATE</p>		<p>DATE</p>		<p>DATE</p>		<p>DATE</p>	
<p>AS NOTED</p>				<p>DRAWING NO.: S15E-823</p>		<p>CONTRACT NO.: RH100544JB</p>		<p>SHEET NO.:</p>							



JMS DESIGNED 10-19-11 DATE SPT DRAWN 10-19-11 DATE TLC CHECKED 11-04-11 DATE APPROVED 5-14-12 DATE				REGISTERED ARCHITECT CAROL MAYER REED LANDSCAPE ARCHITECT				TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON CAPITAL PROJECTS AND FACILITIES DIVISION 710 N.E. HOLLADAY STREET PORTLAND, OREGON 97232				PORTLAND - MILWAUKIE LRT EAST SEGMENT ARCHITECTURAL DETAILS - RAILINGS Exhibit T 22			
5-14-12 XXX XXX ISSUED FOR CONSTRUCTION NO. DATE BY APPD. REVISIONS				SUBMITTED: DATE: 5-14-12				APPROVED: DATE: 5-14-12				SCALE: VARIES DRAWING NO.: A15E-540 CONTRACT NO.: RH100544JB SHEET NO.:			

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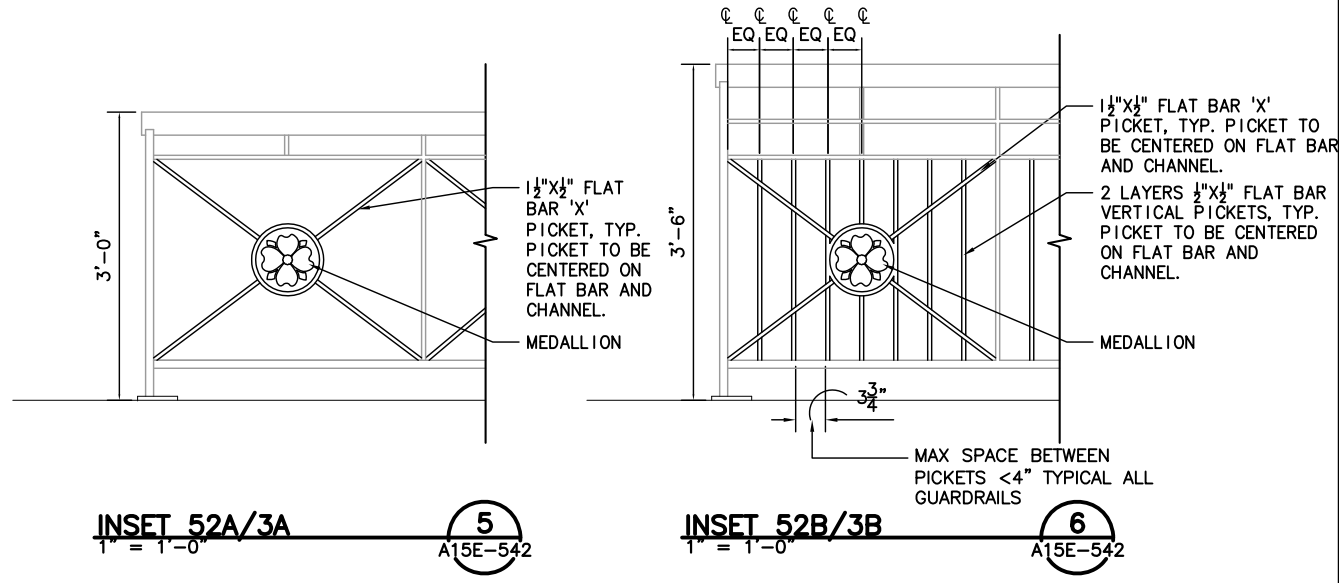
P:\10_jobs\1030.01 Portland Milwaukie Light Rail\cadd\Sheets\600_Railings\A15E-542.dwg Mar. 13, 2012 - 12:57 PM mmeredith hendricks
 Plot Date: 3/20/2012 12:19 PM mmeredith hendricks



- 50A - RAILING TYPE 1A - 3/A15E-542
 - 50B - RAILING TYPE 1B - 3/A15E-542
 - 50C - RAILING TYPE 1C - 4/A15E-542
 - 52A - RAILING TYPE 3A - 5/A15E-542
 - 52B - RAILING TYPE 3B - 6/A15E-542
 - 53A - RAILING TYPE 4A - 7/A15E-542
 - 53B - RAILING TYPE 4B - 8/A15E-542
- SEE INSET FOR RAILING TYPE DETAIL

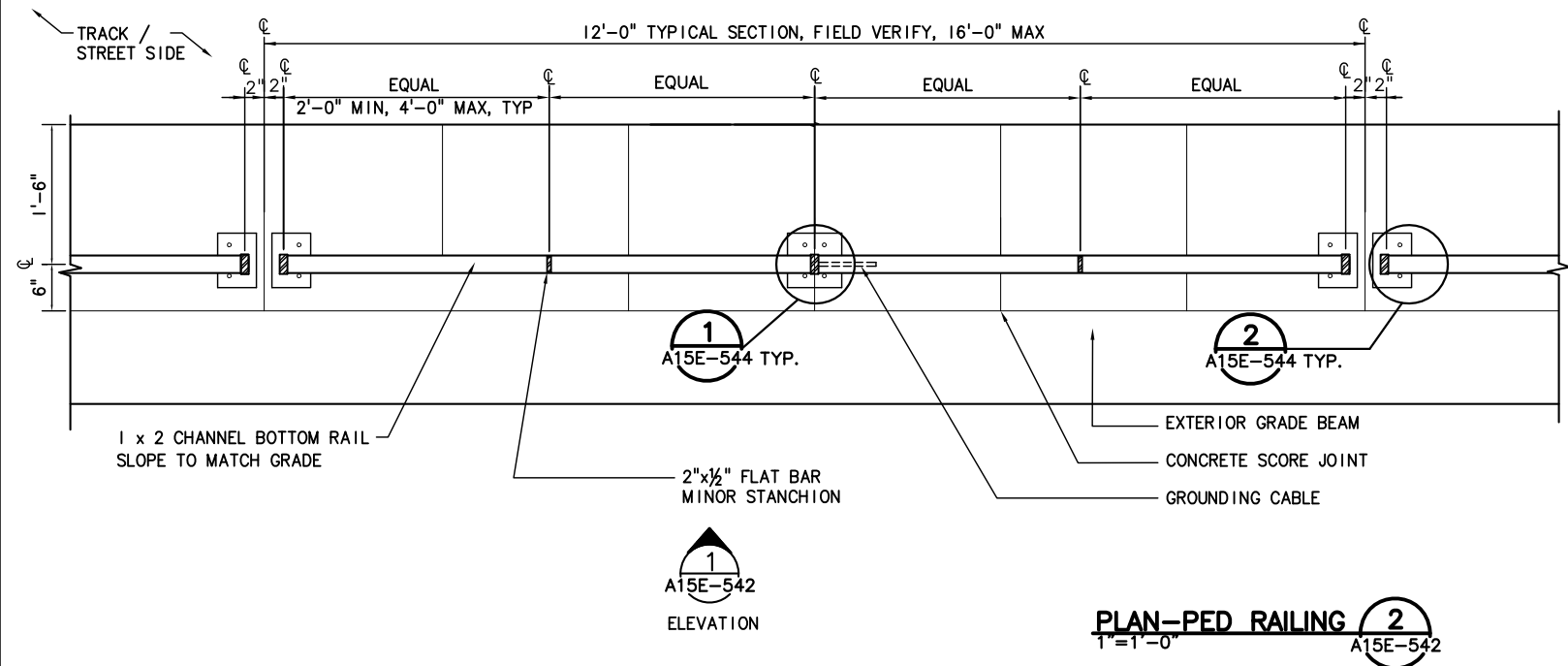
- GENERAL NOTES:**
1. SUPPORTS AND PICKETS TO BE VERTICAL, REGARDLESS OF PAVING SLOPE.
 2. BUILD GUARD/PED-RAIL IN STRAIGHT SECTIONS TANGENT WITH SIDEWALK PROFILE.
 3. HOT DIP GALVANIZE AFTER FABRICATION, TYPICAL, UNLESS OTHERWISE NOTED.
 4. RAILING COMBINATION WITH INSET 52A AND 52B TO BE PAINTED P2 BLACK, SEE SPECIFICATION. HANDRAIL, WHERE OCCURS, TO REMAIN STAINLESS STEEL FINISH.

ELEVATION-PED RAILING 1
 1" = 1'-0" A15E-542



INSET 52A/3A 5
 1" = 1'-0" A15E-542

INSET 52B/3B 6
 1" = 1'-0" A15E-542



PLAN-PED RAILING 2
 1" = 1'-0" A15E-542

NO.	DATE	BY	APPD.	REVISIONS
03-28-12				ISSUED FOR CONSTRUCTION

DESIGNED	MM	5-01-11
DRAWN	VC	10-07-11
CHECKED	WB	11-06-11
APPROVED		5-14-12



TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

waterleaf architecture, interiors & planning

Mayer/Reed

TRIOMET

CAPITAL PROJECTS AND FACILITIES DIVISION
 710 N.E. HOLLADAY STREET
 PORTLAND, OREGON 97232

SUBMITTED: DATE: 5-14-12 APPROVED: DATE: 5-14-12

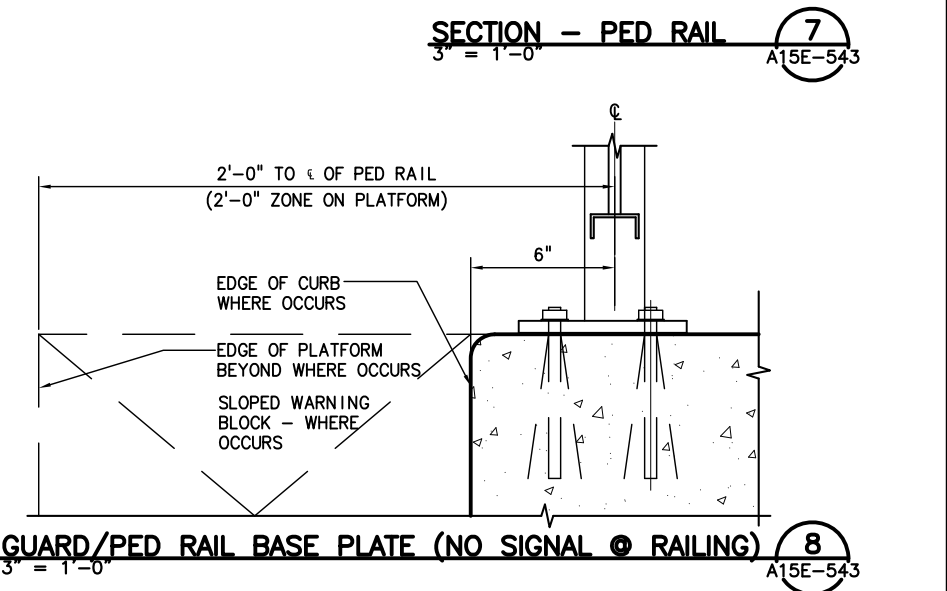
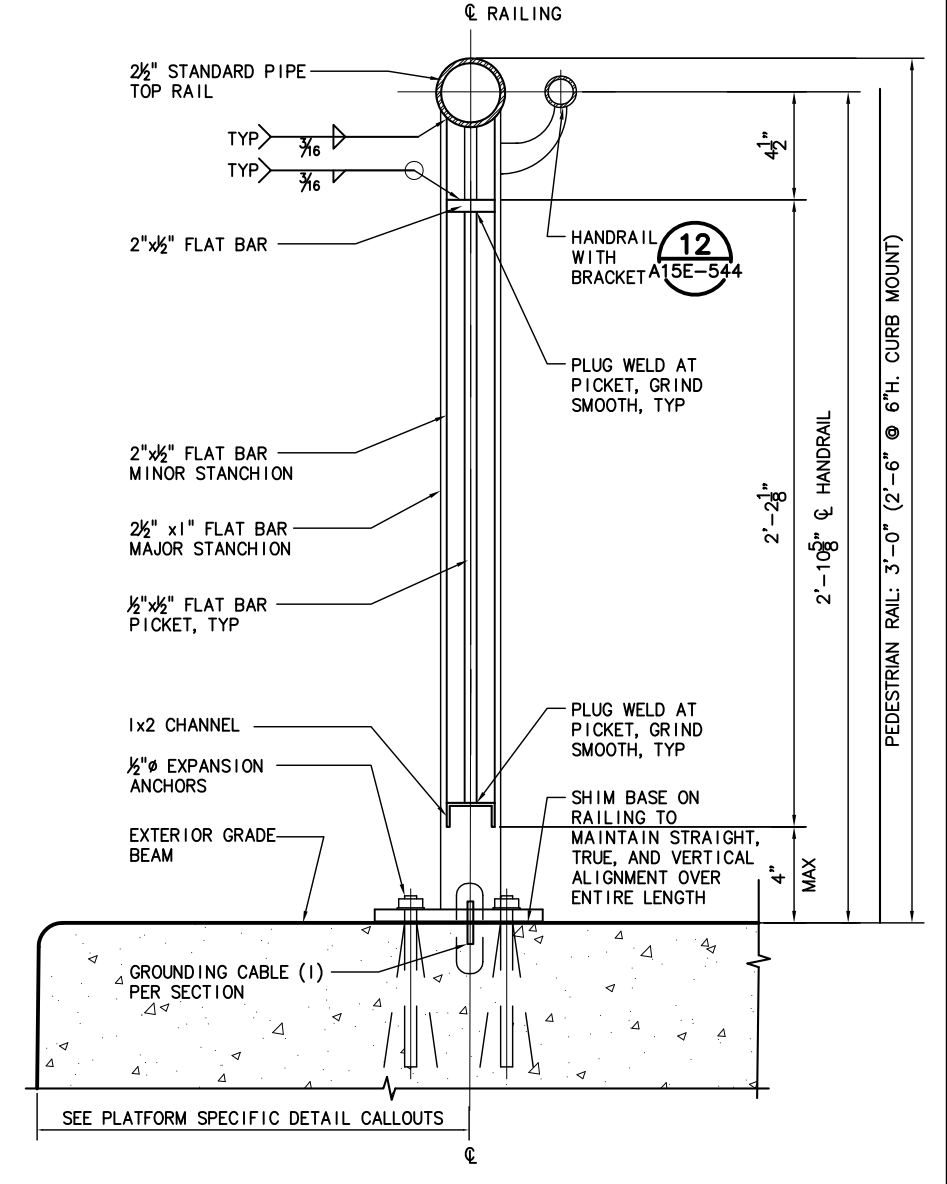
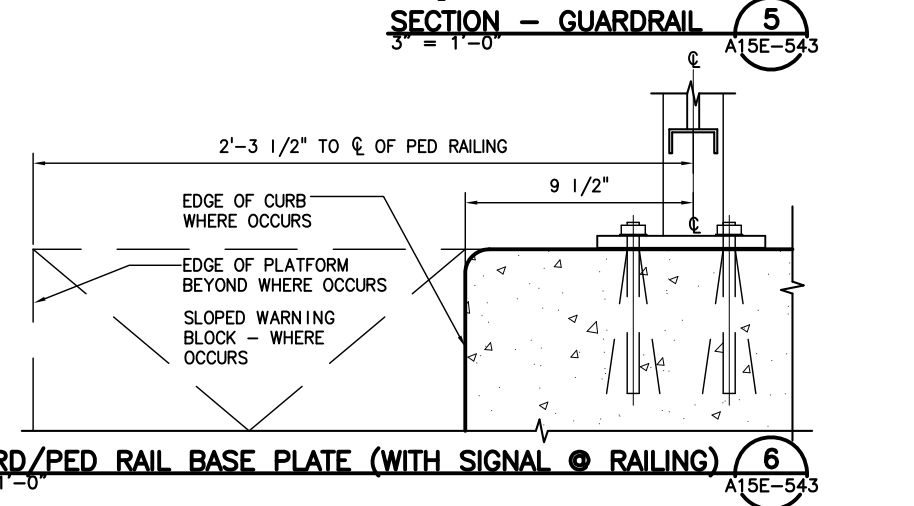
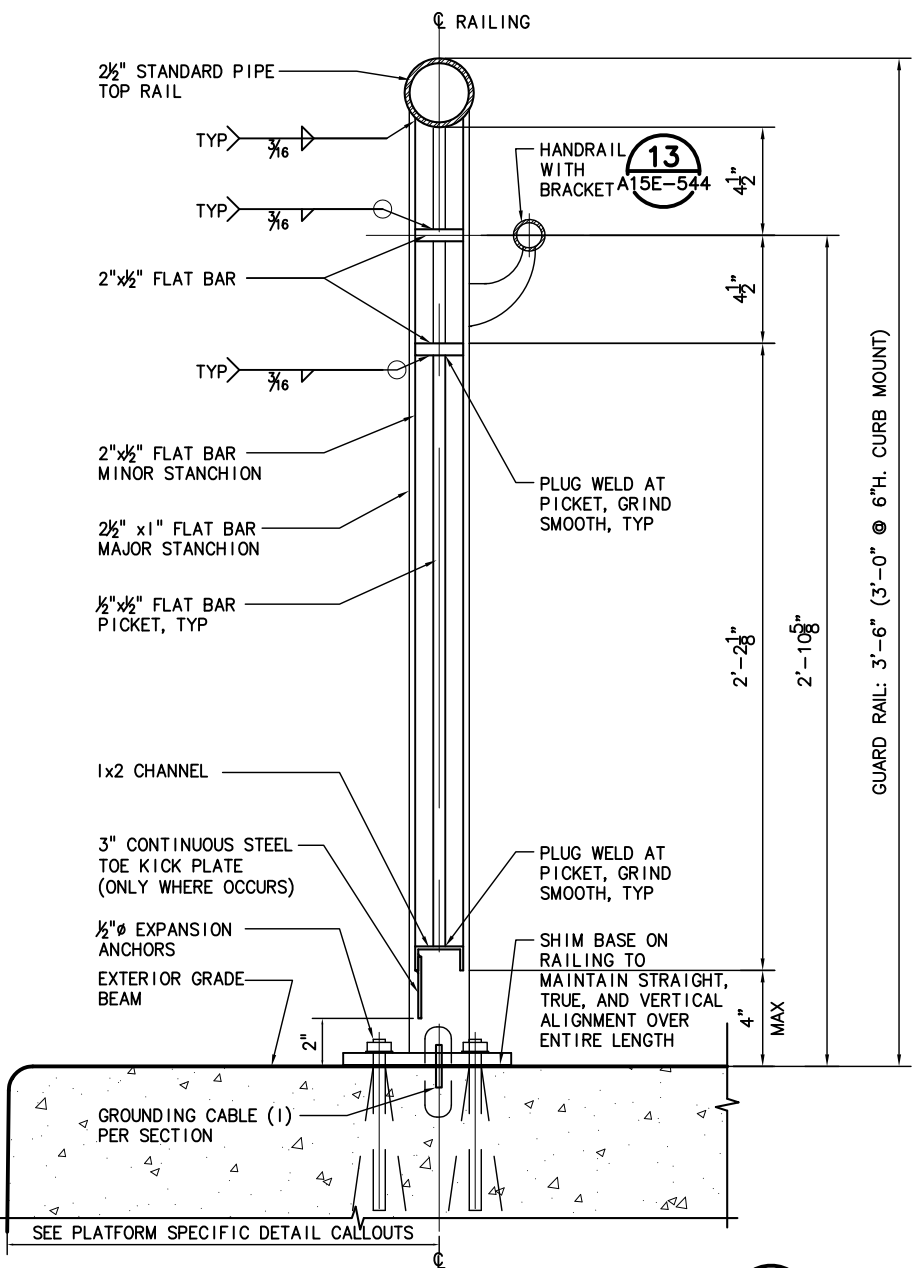
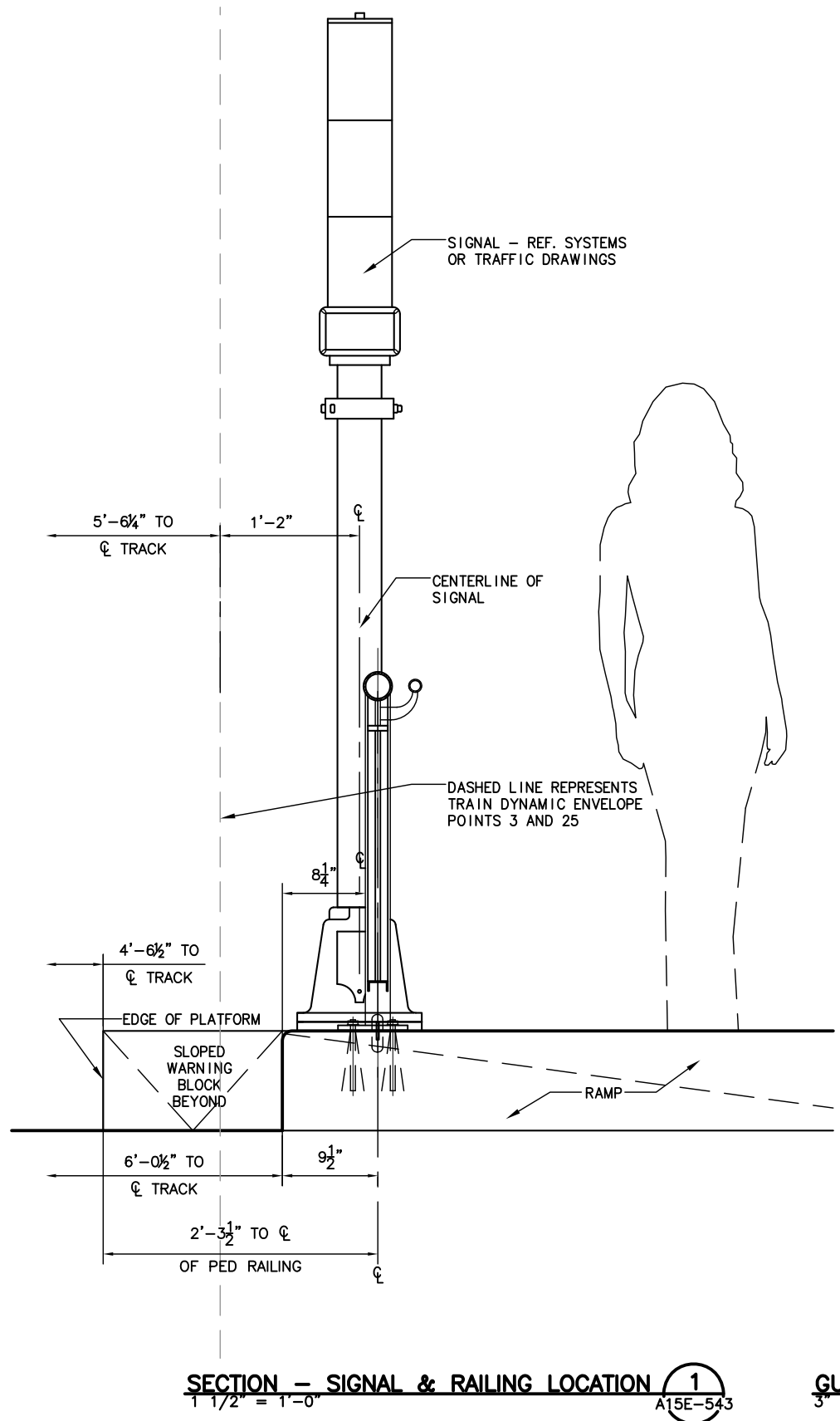
PORTLAND TO MILWAUKIE LRT EAST SEGMENT

ARCHITECTURAL TYPICAL GUARD / PED RAILING ELEVATIONS

Exhibit T 23

SCALE: VARIES DRAWING NO.: A15E-542 CONTRACT NO.: RH100544JB SHEET NO.:

P:\10_jobs\1030.01 Portland Milwaukie Light Rail\cod\Sheets\600_Railings\A15E-543.dwg Mar. 13, 2012 - 12:58 PM mmeredith hendricks
 Plot Date: 3/20/2012 12:21 PM mmeredith hendricks



NO.	DATE	BY	APPD.	REVISIONS
03-28-12				ISSUED FOR CONSTRUCTION

MM DESIGNED	5-01-11	DATE
VC DRAWN	10-07-11	DATE
WB CHECKED	11-06-11	DATE
APPROVED	5-14-12	DATE

REGISTERED ARCHITECT
 JON C. B...
 PORTLAND, OREGON
 OF OREGON
PRELIMINARY

TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

waterleaf architecture, interiors & planning

Mayer/Reed

TRIOMET

CAPITAL PROJECTS AND FACILITIES DIVISION
 710 N.E. HOLLADAY STREET
 PORTLAND, OREGON 97232

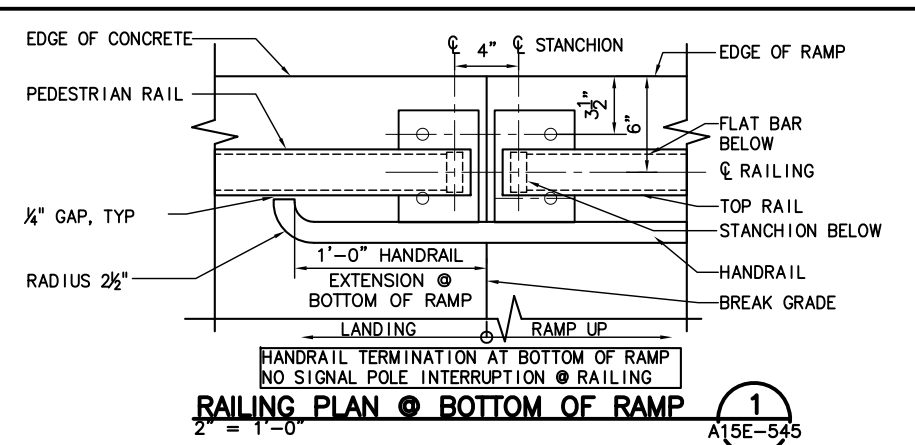
SUBMITTED: DATE: 5-14-12 APPROVED: DATE: 5-14-12

PORTLAND TO MILWAUKIE LRT EAST SEGMENT Exhibit T 24

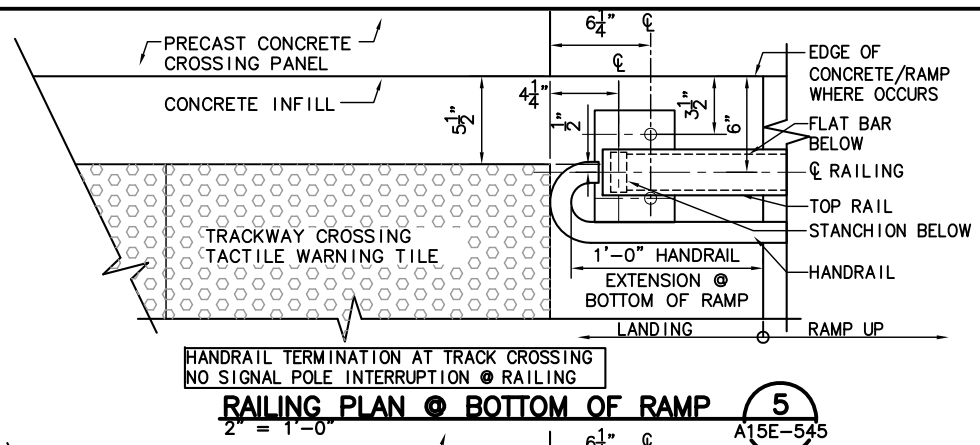
ARCHITECTURAL TYPICAL GUARD / PED RAILING SECTIONS

SCALE: VARIES DRAWING NO.: A15E-543 CONTRACT NO.: RH100544JB SHEET NO.:

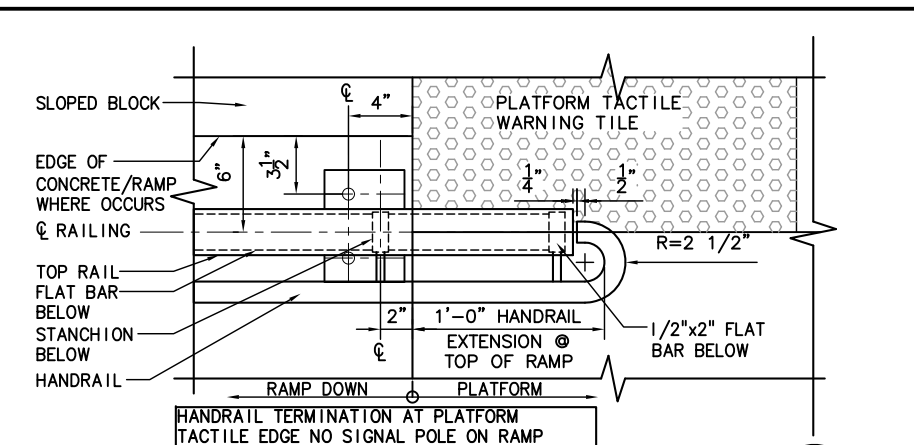
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 Plot Date: 3/20/2012 12:22 PM_meredith hendricks



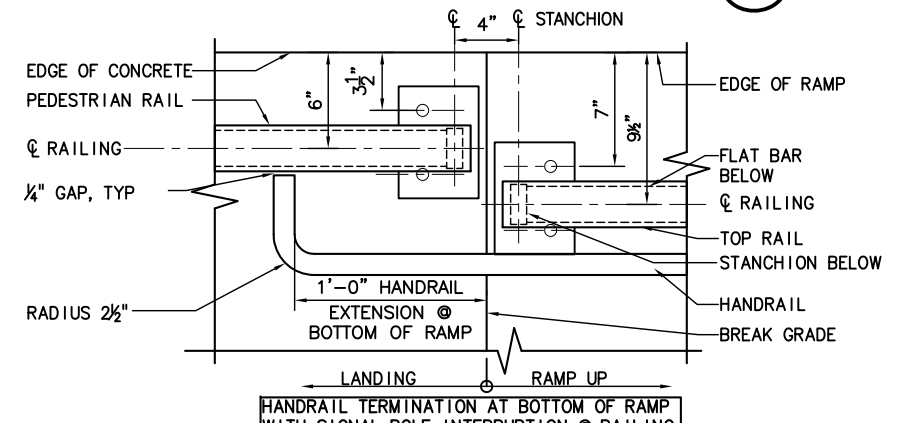
RAILING PLAN @ BOTTOM OF RAMP 1
 A15E-545



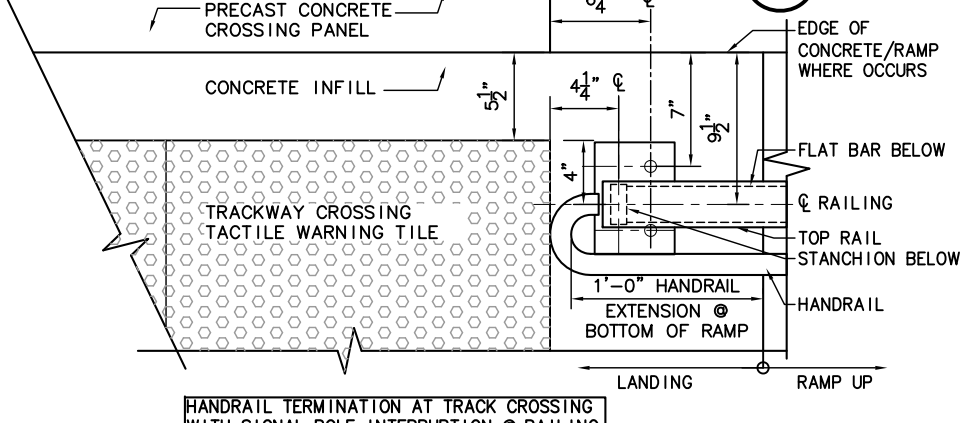
RAILING PLAN @ BOTTOM OF RAMP 5
 A15E-545



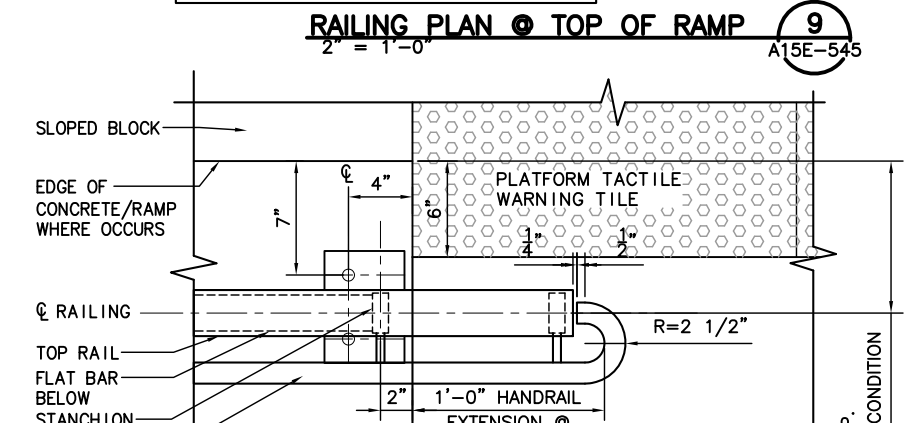
RAILING PLAN @ TOP OF RAMP 9
 A15E-545



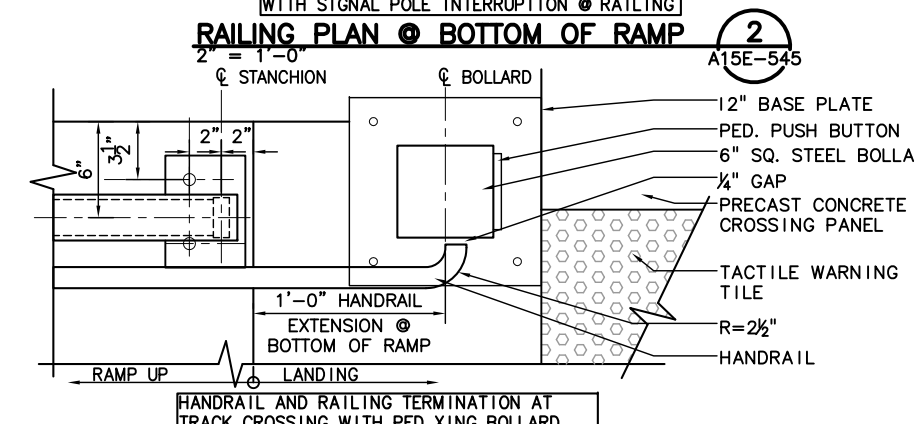
RAILING PLAN @ BOTTOM OF RAMP 2
 A15E-545



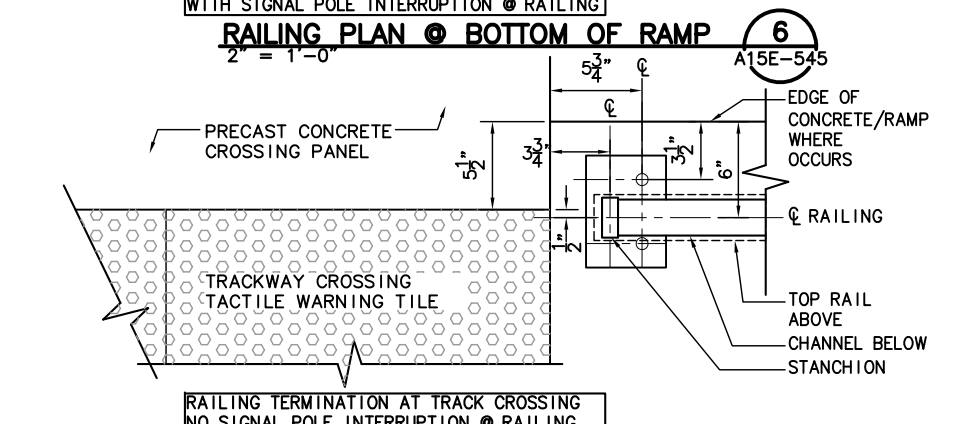
RAILING PLAN @ BOTTOM OF RAMP 6
 A15E-545



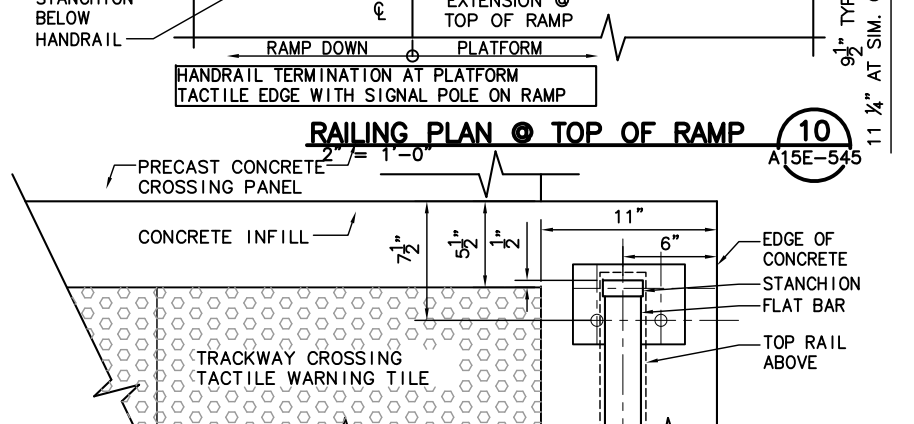
RAILING PLAN @ TOP OF RAMP 10
 A15E-545



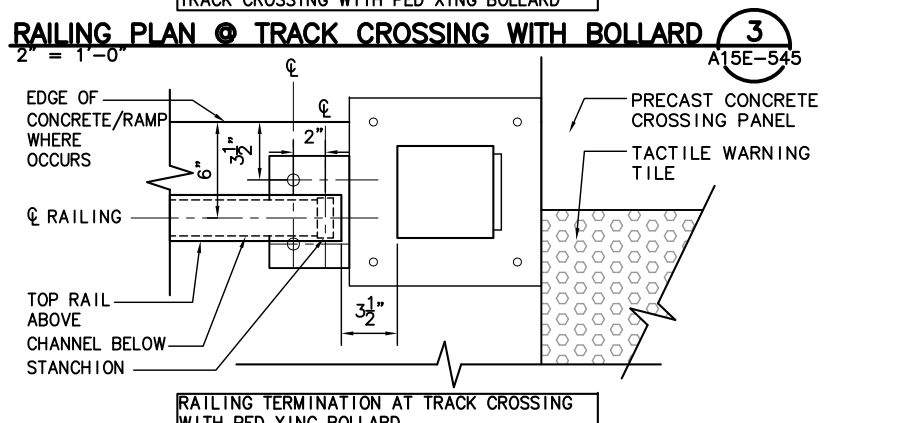
RAILING PLAN @ TRACK CROSSING WITH BOLLARD 3
 A15E-545



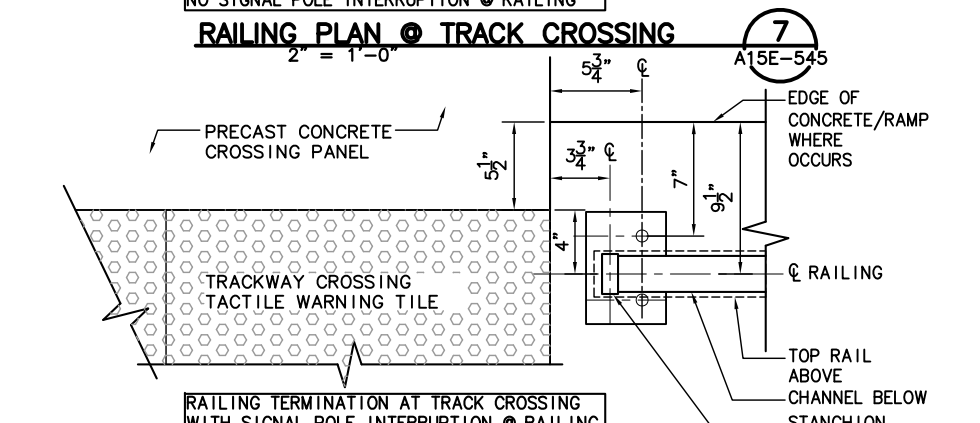
RAILING PLAN @ TRACK CROSSING 7
 A15E-545



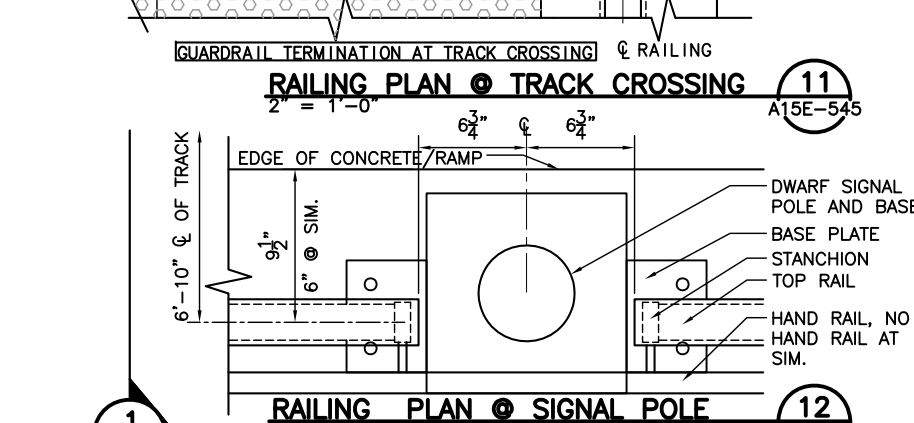
RAILING PLAN @ TRACK CROSSING 11
 A15E-545



RAILING PLAN @ TRACK CROSSING WITH BOLLARD 4
 A15E-545



RAILING PLAN @ TRACK CROSSING 8
 A15E-545



RAILING PLAN @ SIGNAL POLE 12
 A15E-545

NO.	DATE	BY	APPR.	REVISIONS
03-28-12				ISSUED FOR CONSTRUCTION

MM DESIGNED	5-09-11	DATE
VC DRAWN	10-17-11	DATE
WB CHECKED	11-06-11	DATE
APPROVED	5-14-12	DATE

REGISTERED ARCHITECT
 PRELIMINARY
 JON C. BAKER
 ARCHITECT, INTERIORS & PLANNING
 PORTLAND, OREGON

TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

waterleaf architecture, interiors & planning

Mayer/Reed

TRIOMET

CAPITAL PROJECTS AND FACILITIES DIVISION
 710 N.E. HOLLADAY STREET
 PORTLAND, OREGON 97232

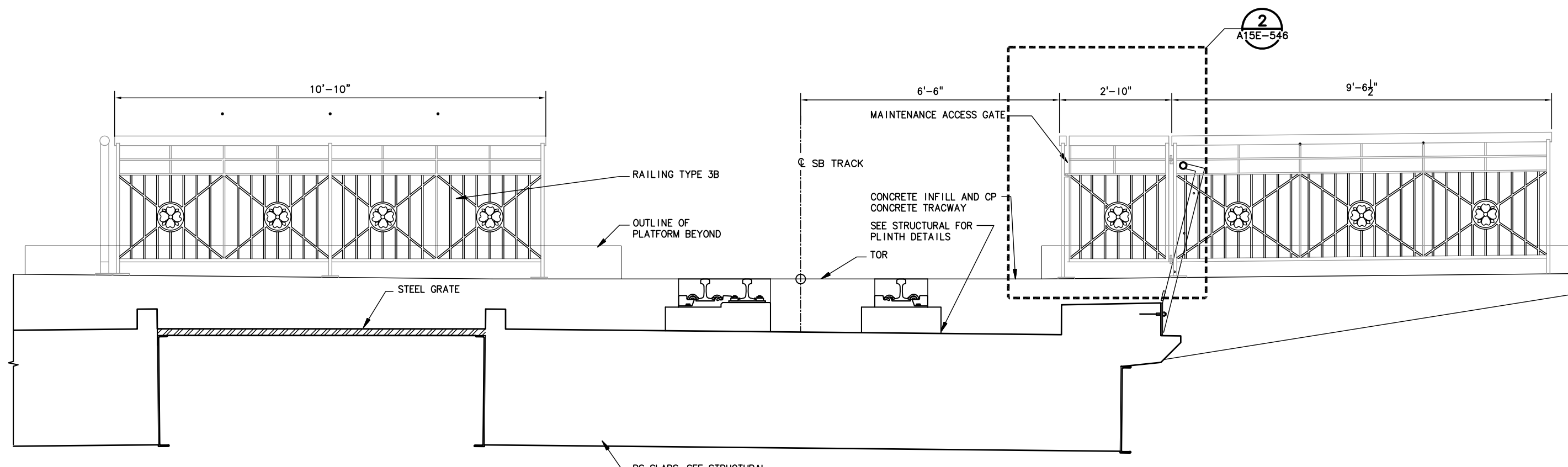
SUBMITTED: DATE: 5-14-12 APPROVED: DATE: 5-14-12

PORTLAND TO MILWAUKIE LRT
 EAST SEGMENT
 ARCHITECTURAL
 TYPICAL GUARD / PED RAILING
 DETAILS

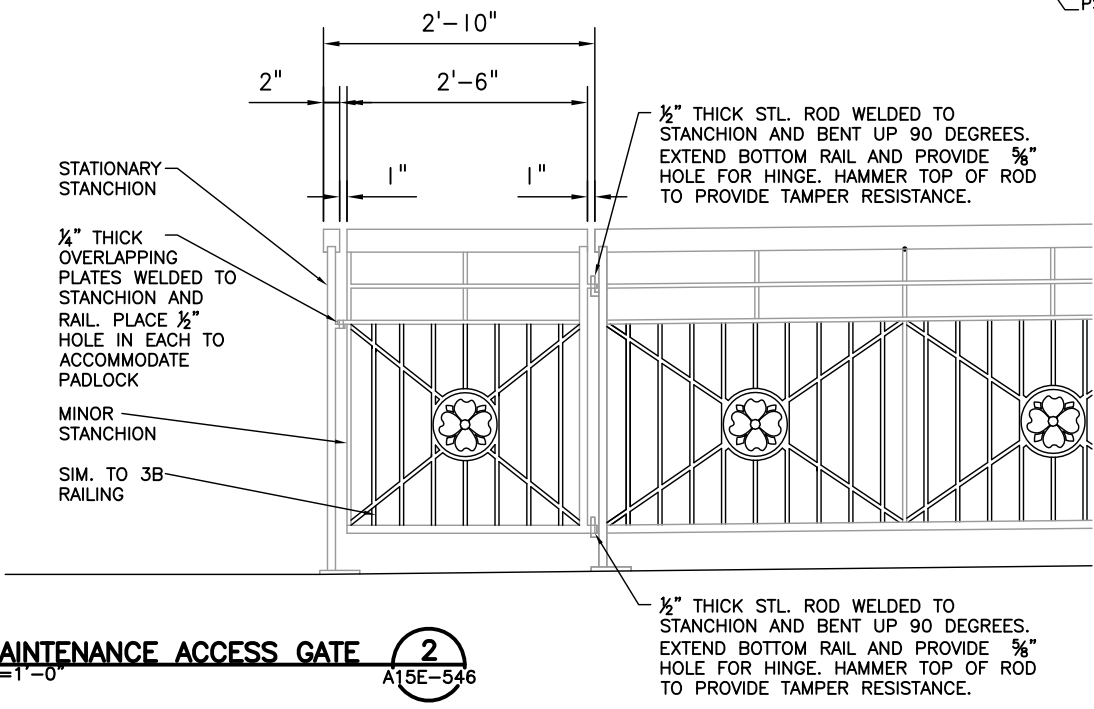
Exhibit T 25

SCALE: VARIES DRAWING NO.: A15E-545 CONTRACT NO.: RH100544JB SHEET NO.:

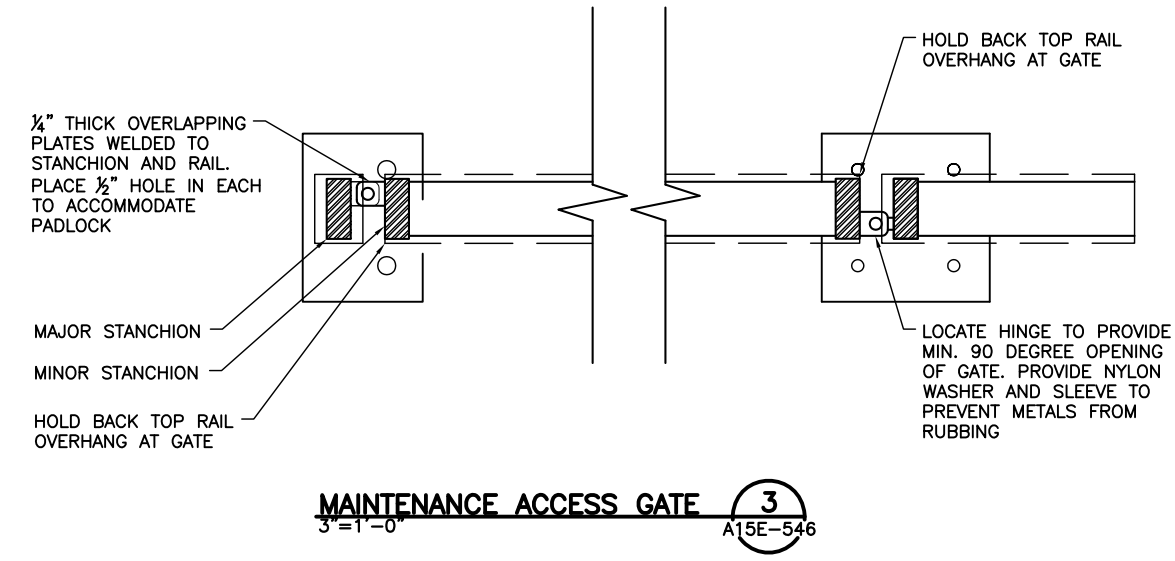
P:\10_jobs\1030.01 Portland Milwaukie Light Rail\cadd\Sheets\600_Railings\A15E-546.dwg Mar. 16, 2012 1:41 PM meredith hendricks
 Plot Date: 3/20/2012 2:47 PM_meredith hendricks



RAILING AT MILWAUKIE/MAIN ST STATION 2
 3/4"=1'-0" A15E-546



MAINTENANCE ACCESS GATE 2
 1"=1'-0" A15E-546



MAINTENANCE ACCESS GATE 3
 3"=1'-0" A15E-546

NO.	DATE	BY	APPD.	REVISIONS
03-28-12				ISSUED FOR CONSTRUCTION

MM	5-09-11
DESIGNED	DATE
MH	5-09-11
DRAWN	DATE
WB	11-06-11
CHECKED	DATE
APPROVED	5-14-12
	DATE



TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

waterleaf architecture, interiors & planning

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TRIOMET

CAPITAL PROJECTS AND FACILITIES DIVISION
 710 N.E. HOLLADAY STREET
 PORTLAND, OREGON 97232

SUBMITTED: DATE: 5-14-12 APPROVED: DATE: 5-14-12

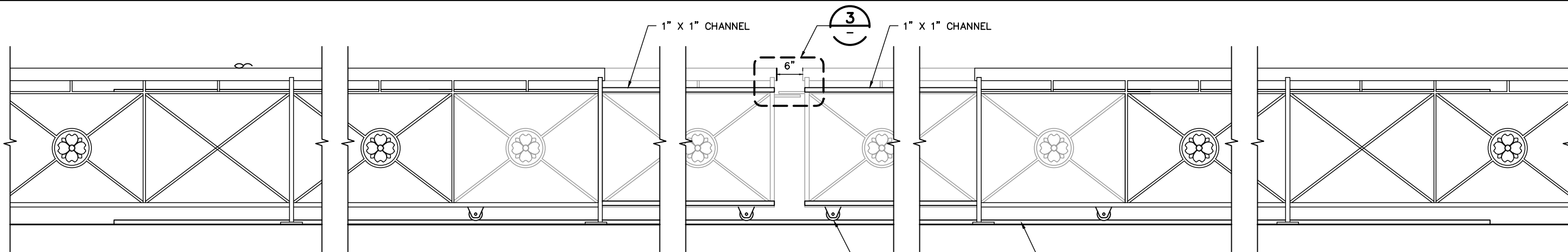
PORTLAND TO MILWAUKIE LRT
EAST SEGMENT Exhibit T 26
 ARCHITECTURAL
 GUARD RAIL DETAILS
 MILWAUKIE

SCALE: VARIES DRAWING NO.: A15E-546 CONTRACT NO.: RH100544JB SHEET NO.:

Mar 20, 2012 2:21pm

Rhielden

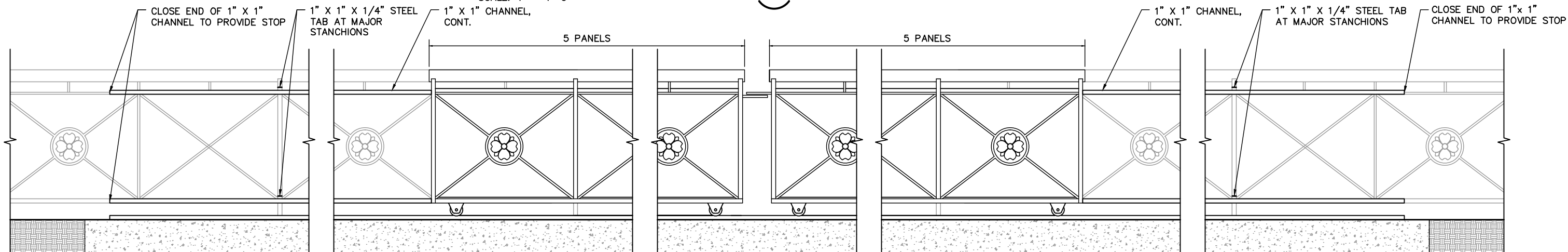
I:\Projects\PM\Projects\15E-547.dwg



FIRE ACCESS GATE - ELEVATION

SCALE: 1" = 1'-0"

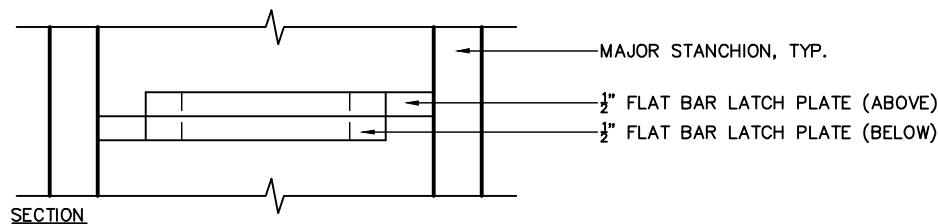
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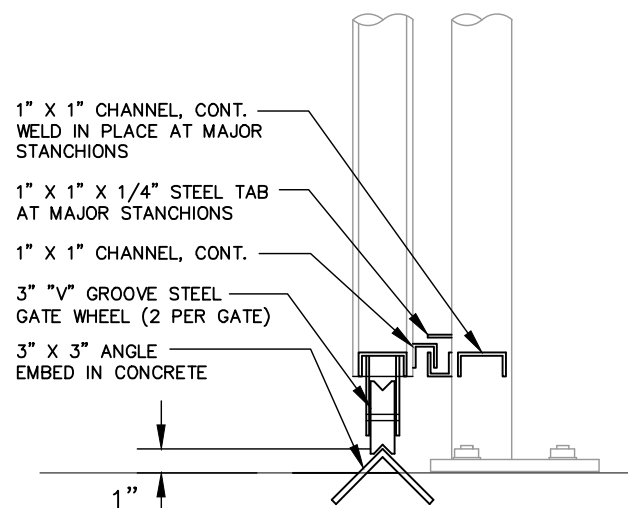
FIRE ACCESS GATE - ELEVATION

SCALE: 1" = 1'-0"

2



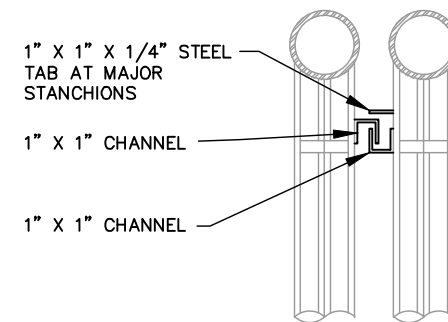
SECTION



FIRE GATE - BOTTOM CHANNEL

SCALE: 3" = 1'-0"

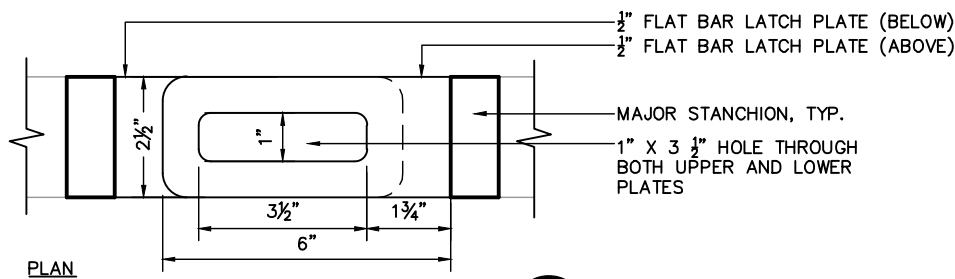
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FIRE GATE - TOP CHANNEL

SCALE: 3" = 1'-0"

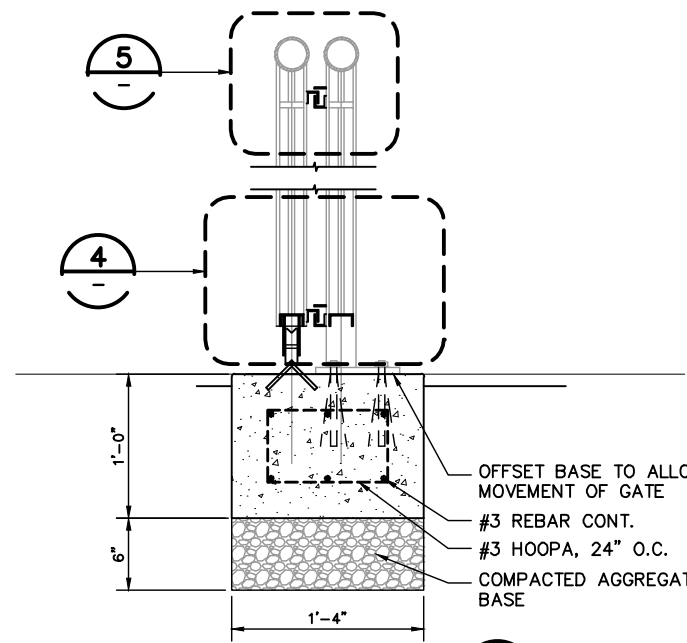
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FIRE GATE - LATCH

SCALE: 3" = 1'-0"

3



FIRE GATE - SECTION

SCALE: 1-1/2" = 1'-0"

6

NO.	DATE	BY	APPD.	REVISIONS
5-14-12	XXX	XXX		ISSUED FOR CONSTRUCTION

JMS	06-01-11
DESIGNED	DATE
SPT	06-01-11
DRAWN	DATE
TLC	11-04-11
CHECKED	DATE
APPROVED	5-14-12
	DATE

REGISTERED ARCHITECT
 CAROL MAYER
 LANDSCAPE ARCHITECT
PRELIMINARY

TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

Mayer/Reed

DAVID EVANS AND ASSOCIATES INC.

TRIMET

CAPITAL PROJECTS AND FACILITIES DIVISION
 710 N.E. HOLLADAY STREET
 PORTLAND, OREGON 97232

PORTLAND - MILWAUKIE LRT
 EAST SEGMENT

Architectural Exhibit T 27

DETAILS - FIRE GATE ACCESS

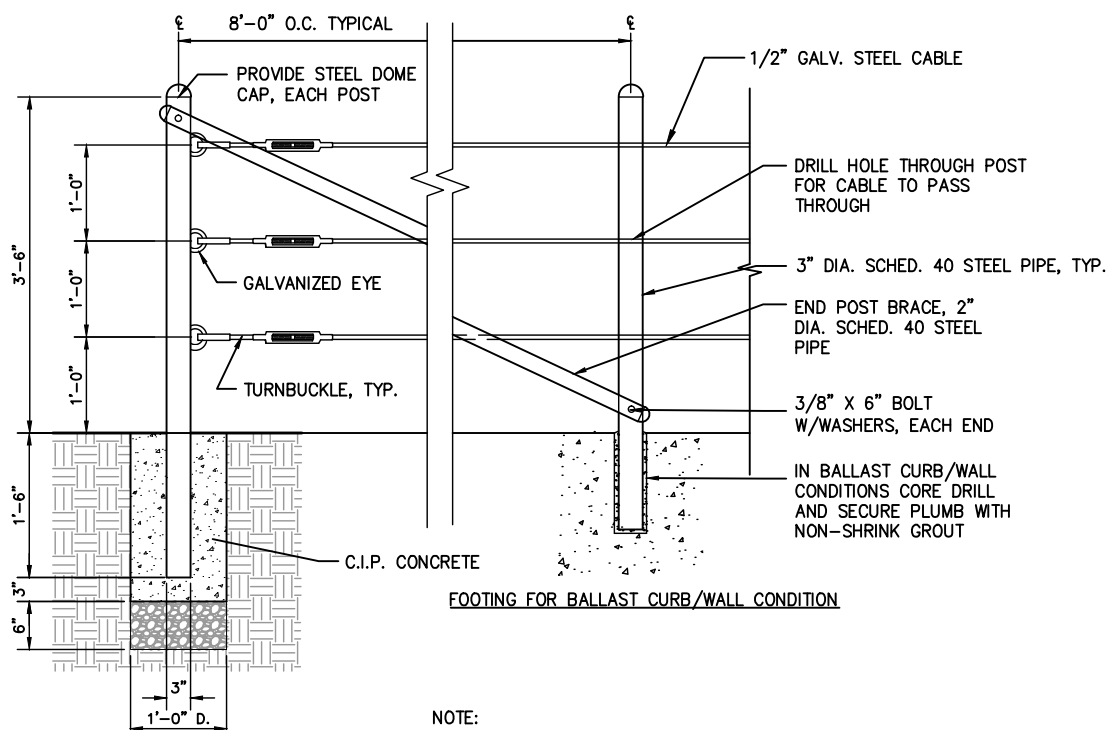
SUBMITTED: 5-14-12 DATE: 5-14-12 APPROVED: 5-14-12 DATE: 5-14-12

SCALE: VARIES DRAWING NO.: A15E-547 CONTRACT NO.: RH100544JB SHEET NO.:

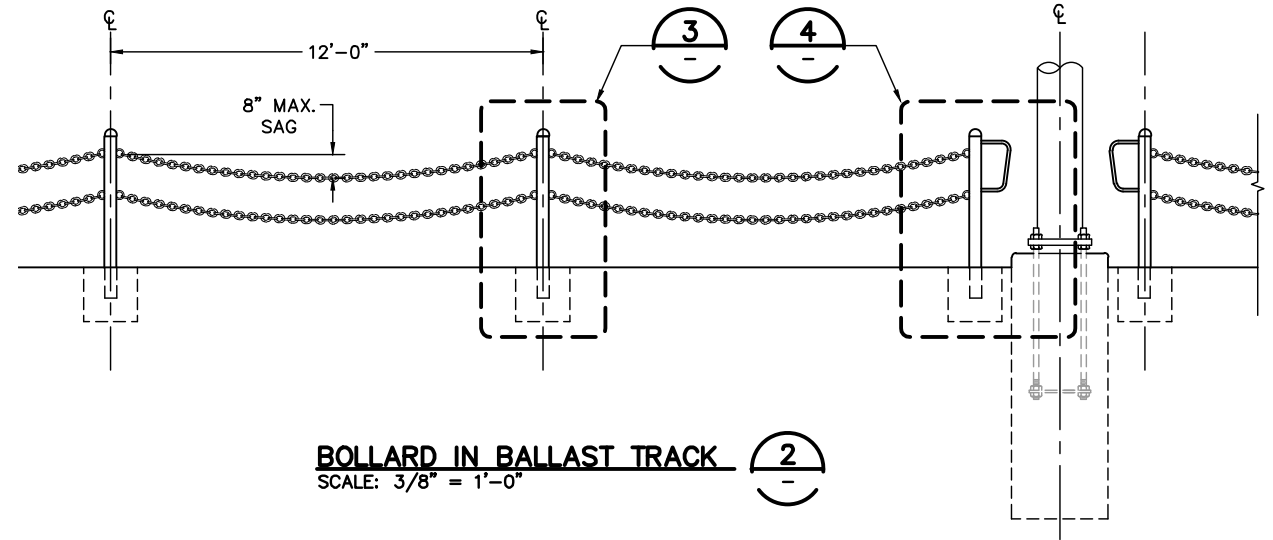
Mar 20, 2012 11:02am

Rhielden

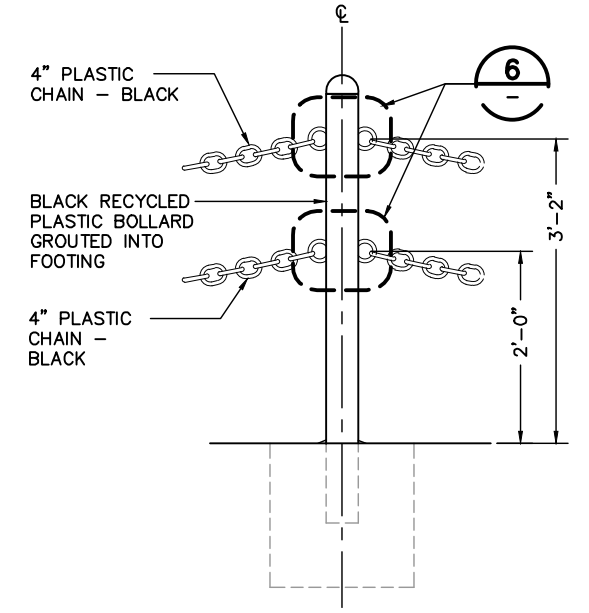
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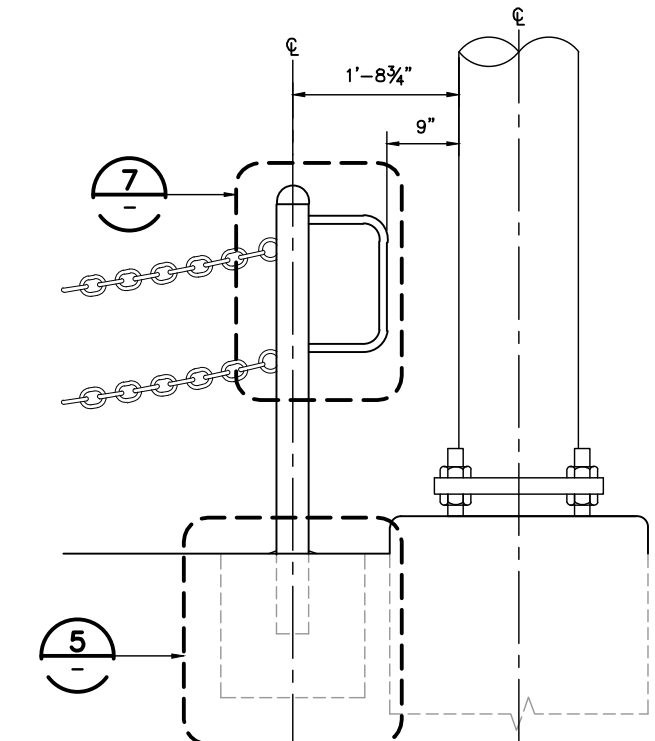
**RAILING - TYPE 7A
(CABLE SAFETY RAILING)**
SCALE: 1" = 1'-0"



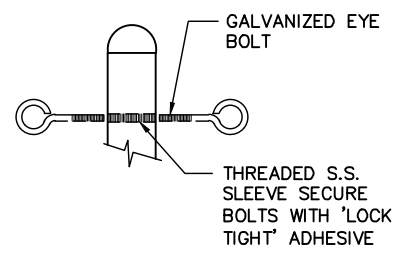
BOLLARD IN BALLAST TRACK
SCALE: 3/8" = 1'-0"



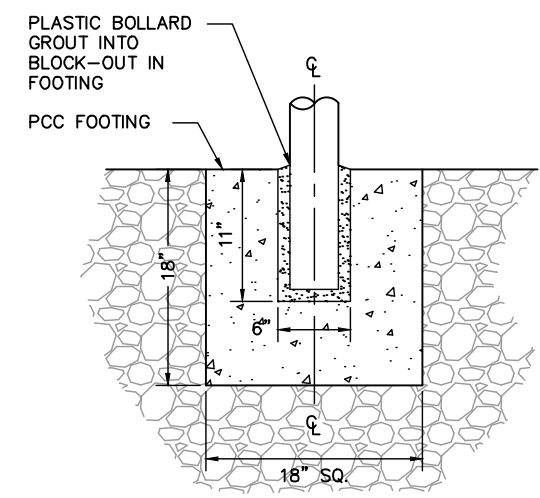
PLASTIC BOLLARD W/ CHAIN - TYPICAL
SCALE: 1" = 1'-0"



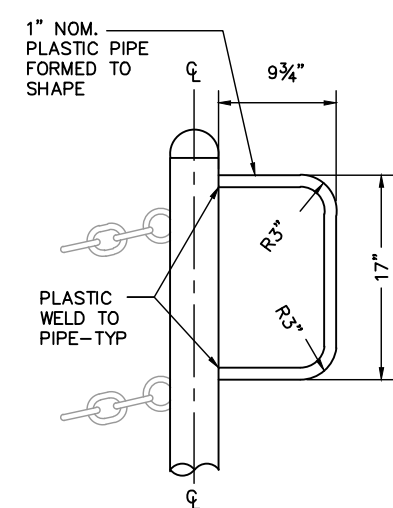
PLASTIC BOLLARD AT OCS POLE
SCALE: 1" = 1'-0"



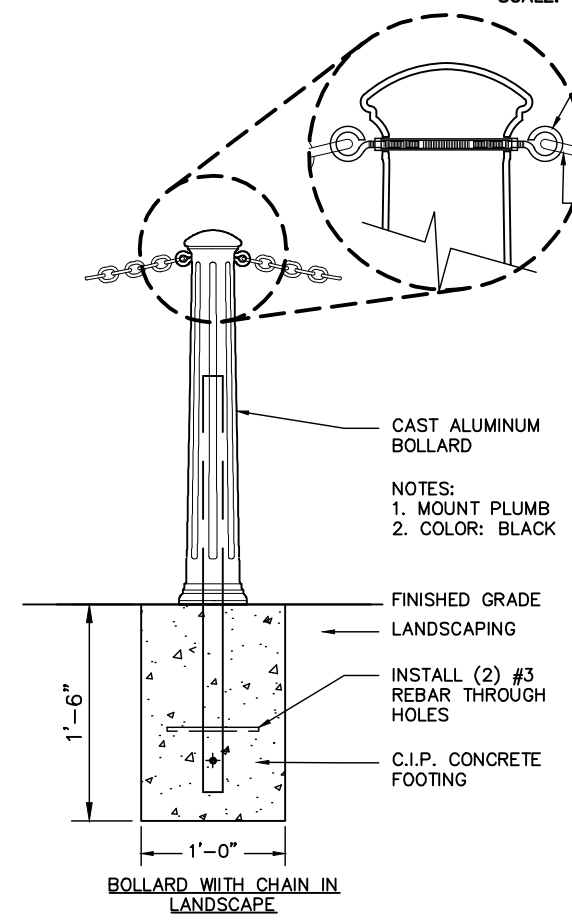
CHAIN CONNECTION DETAIL
SCALE: 1-1/2" = 1'-0"



PLASTIC BOLLARD FOOTING
SCALE: 1-1/2" = 1'-0"



PLASTIC BOLLARD EXTENSION
SCALE: 1-1/2" = 1'-0"



CITY OF MILWAUKIE BOLLARD
SCALE: 1-1/2" = 1'-0"

NO.	DATE	BY	APPD.	REVISIONS
5-14-12	XXX	XXX		ISSUED FOR CONSTRUCTION

JMS	06-01-11	DESIGNED	DATE
SPT	06-01-11	DRAWN	DATE
TLC	11-04-11	CHECKED	DATE
	5-14-12	APPROVED	DATE

REGISTERED
LANDSCAPE ARCHITECT
PRELIMINARY

TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

Mayer/Reed

DAVID EVANS AND ASSOCIATES INC.

TRIOMET

CAPITAL PROJECTS AND FACILITIES DIVISION
710 N.E. HOLLADAY STREET
PORTLAND, OREGON 97232

SUBMITTED: DATE: 5-14-12 APPROVED: DATE: 5-14-12

PORTLAND - MILWAUKIE LRT
EAST SEGMENT
ARCHITECTURAL DETAILS - PED BOLLARDS

Exhibit T 28

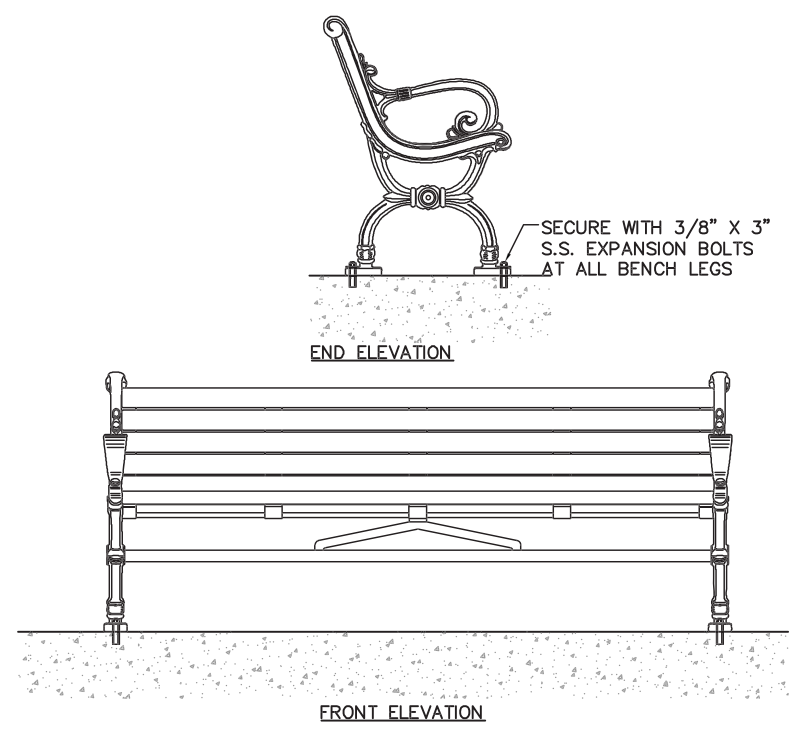
SCALE: VARIES DRAWING NO.: A15E-550 CONTRACT NO.: RH100544JB SHEET NO.:

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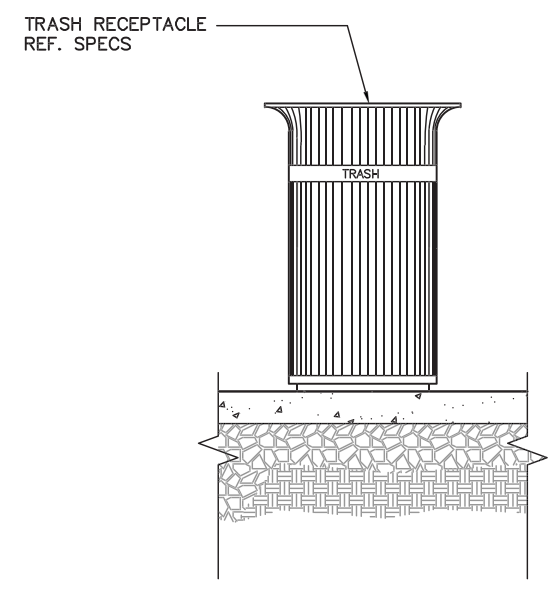
Mar 20, 2012 11:05am

Rhielden

I:\LA PROJECTS\PM\Oregon\shards\15E-572.dwg



CITY OF MILWAUKIE BENCH (1)
NTS



TRASH RECEPTACLE - TYPE 1 (O.F.C.I.) (CITY OF MILWAUKIE) (2)
NTS

NO.	DATE	BY	CHK.	APPD.	REVISIONS
5-14-12	XXX	XXX			ISSUED FOR CONSTRUCTION

JMS	06-01-11
DESIGNED	DATE
SPT	06-01-11
DRAWN	DATE
TLC	11-04-11
CHECKED	DATE
APPROVED	5-14-12
	DATE

REGISTERED
&
LANDSCAPE ARCHITECT
CAROL MAYER-REED
OREGON

TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

Mayer/Reed

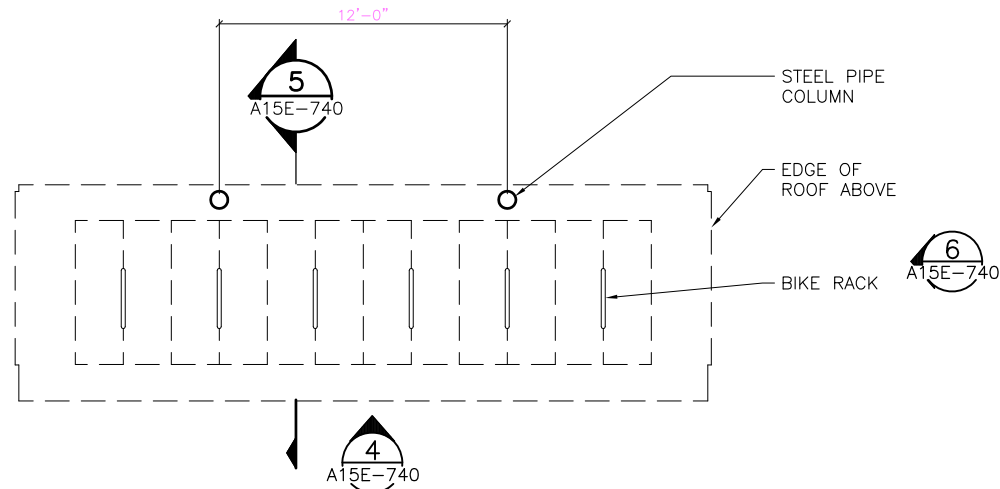
DAVID EVANS AND ASSOCIATES INC.

TRIOMET

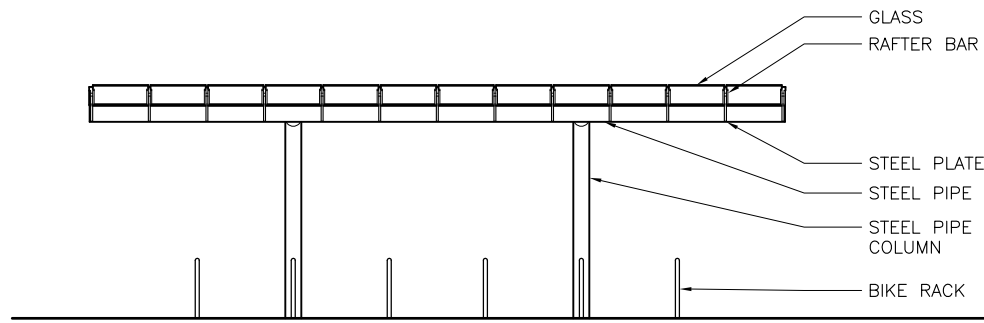
CAPITAL PROJECTS AND FACILITIES DIVISION
710 N.E. HOLLADAY STREET
PORTLAND, OREGON 97232

SUBMITTED: DATE: 5-14-12 APPROVED: DATE: 5-14-12

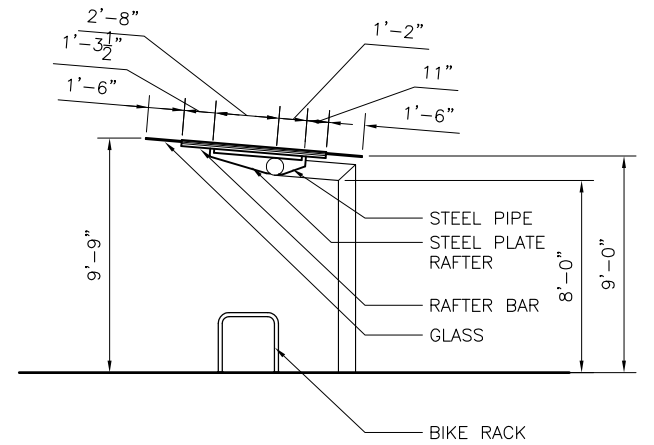
PORTLAND - MILWAUKIE LRT EAST SEGMENT Exhibit T 30 ARCHITECTURAL DETAILS - FURNISHING		SCALE:	VARIES
		DRAWING NO.:	A15E-572
CONTRACT NO.:	RH100544JB	SHEET NO.:	



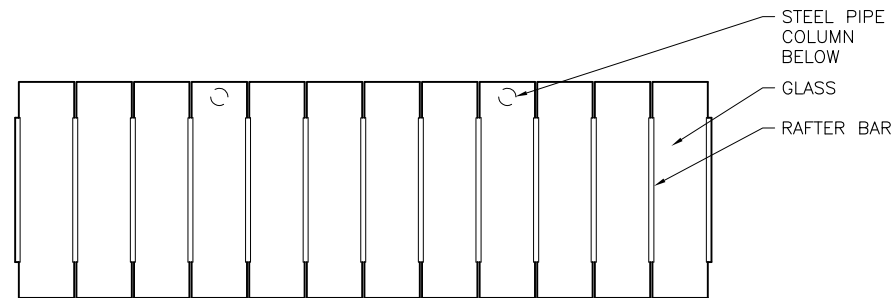
BIKE SHELTER PLAN 1
1/4" = 1'-0" A15E-740



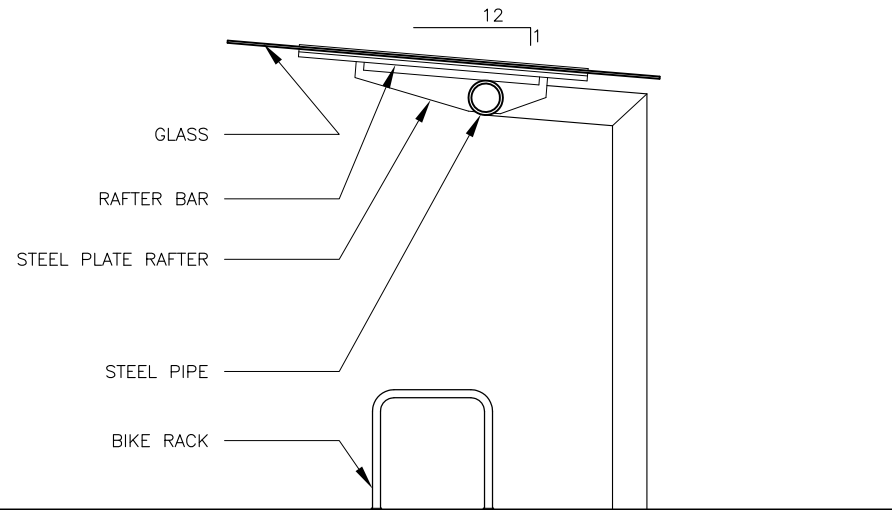
BIKE SHELTER FRONT ELEVATION 4
1/4" = 1'-0" A15E-740



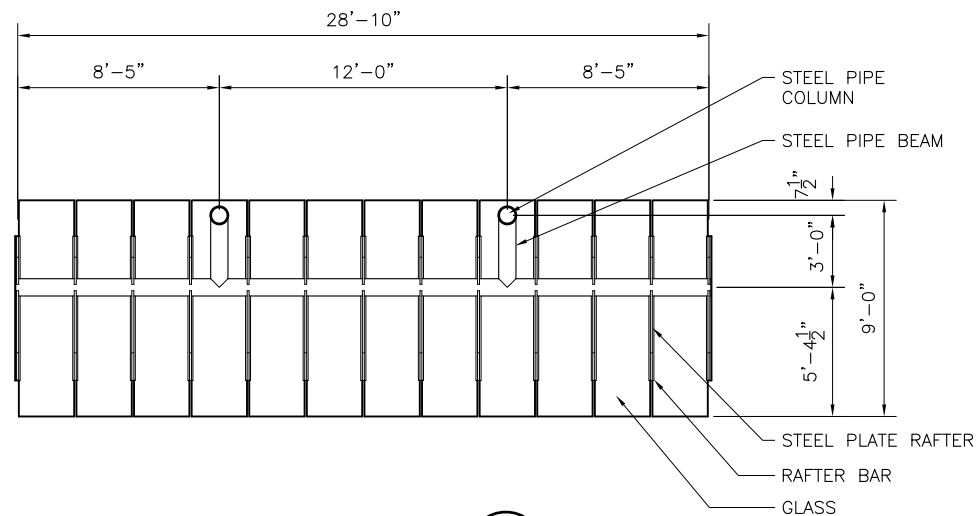
BIKE SHELTER SIDE ELEVATION 6
1/4" = 1'-0" A15E-740



BIKE SHELTER ROOF PLAN 2
1/4" = 1'-0" A15E-740



BIKE SHELTER SECTION 5
1/2" = 1'-0" A15E-740



BIKE SHELTER RCP 3
1/4" = 1'-0" A15E-740

P:\10_jobs\1030.01 Portland Milwaukie Light Rail\cod\Sheets\700_Auxiliary Buildings\A15E-740.dwg Mar. 20, 2012 - 9:28 AM meredith hendricks Plot Date: 3/20/2012 2:50 PM_meredith hendricks

NO.	DATE	BY	APPD.	REVISIONS
	05-14-12			ISSUED FOR CONSTRUCTION

MM DESIGNED	05-09-11	DATE
MH DRAWN	05-09-11	DATE
WB CHECKED	11-07-11	DATE
APPROVED	05-14-12	DATE



TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

waterleaf architecture, interiors & planning

DAVID EVANS AND ASSOCIATES INC.

TRIOMET CAPITAL PROJECTS AND FACILITIES DIVISION
710 N.E. HOLLADAY STREET
PORTLAND, OREGON 97232

SUBMITTED: DATE: 05-14-12 APPROVED: DATE: 05-14-12

PORTLAND TO MILWAUKIE LRT
EAST SEGMENT **Exhibit T 32**

ARCHITECTURAL
BIKE SHELTER
PLAN, SECTION, ELEVATION AND DETAILS

SCALE: AS SHOWN DRAWING NO.: A15E-740 CONTRACT NO.: RH100544JB SHEET NO.:

LOCATION	PLATFORM SHELTER		SHELTER WINDSCREEN			TVM SHELTER		LIGHT POLE				CCTV POLE	BENCH		TRASH RECEPTACLE	EMERGENCY PHONE	BIKE RACK	ART ENCLOSURE	SIGN										
	TYPE 1A	TYPE 2A	TYPE 1A	TYPE 1B	TYPE 1C	TYPE 1	TYPE 2	TYPE 1	TYPE 2	TYPE 3	TYPE 4		TYPE 1	TYPE 2					TYPE A1	TYPE B1	TYPE B2	TYPE C1	TYPE D1	TYPE E1	TYPE F1	TYPE G1	TYPE H1		
LINCOLN ST/SW 3RD AVE	1			1		2		2	3				1	1	2	1			6	2		1	4				2		
SOUTH WATERFRONT/SW MOODY AVE (NB)	2		2			2		2		3				3	2	1		1	3	2		2	4			1	2		
SOUTH WATERFRONT/SW MOODY AVE (SB)	2		2			2		2		3				3	2	1		1	3	2		2	4			1	2		
OMSI/SE WATER AVE (NB)	2		2			2		3		3		1		3	2	1	3	1	4		2	2	4			1	2		
OMSI/SE WATER AVE (SB)	2		2			2		3		3		2		3	2	1	9	1	4		2	2	4			1	2		
CLINTON/SE 12TH AVE		1			1	2		6	3			2	1	1	2	1	26		6		2	1	4				2		
SE 17TH AVE & RHINE ST		1		1		2		3	3		1	1	1	1	2	1	4		6		2	1	4				2		
SE 17TH AVE & HOLGATE BLVD		1			1	2		2	3		2		1	1	2	1	8		6		2	1	4				2		
SE BYBEE BLVD	1				1			2	3				1	1	4	1	29		6		2	1	4		2		2		
SE TACOMA ST/JOHNSON CREEK		1			1	2		6	3		1		1	1	2	1	17		6		2	1	4	1			2		
MILWAUKIE/MAIN ST	1			1		2		5	3				1	1	2	1	12		6		2	1	4				2		
SE PARK AVE	1			1		2	2	6	6		2		1	3	2	1	6		6		4	1	8				2		
TOTALS	12	4	8	4	4	22	2	42	27	12	6	6	8	22	26	12	114	4	62	6	20	16	52	1	2	4	24		

AMENITIES MATRIX



R:\15-CD DUMP\15N - SIGNAGE\90% FINAL DESIGN\G15N-002.dwg, 1/30/2012 1:10:47 PM, lortsb

<p>90% FINAL DESIGN 2-2-12</p>					<p>MDR DESIGNED 01-27-12 DATE</p> <p>EAC DRAWN 01-27-12 DATE</p> <p>KHF CHECKED 01-27-12 DATE</p> <p>APPROVED _____ DATE _____</p>	<p>TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON</p> <p>Mayer/Reed</p>	<p>TRI MET</p> <p>CAPITAL PROJECTS DIVISION 710 NE HOLLADAY STREET PORTLAND, OREGON 97232</p>	<p>PORTLAND TO MILWAUKIE LRT AMENITIES Exhibit T 33 AMENITIES MATRIX</p>				
NO.	DATE	BY	APPD.	REVISIONS	SUBMITTED:	DATE:	APPROVED:	DATE:	SCALE:	DRAWING NO.:	CONTRACT NO.:	SHEET NO.:
										G15N-002	RH100186JB	

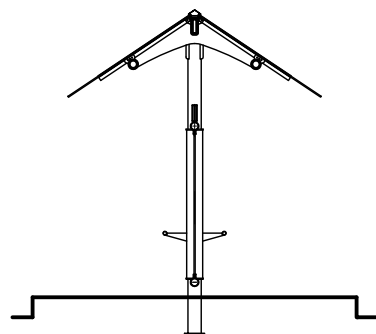
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Mar 22, 2012 1:53pm

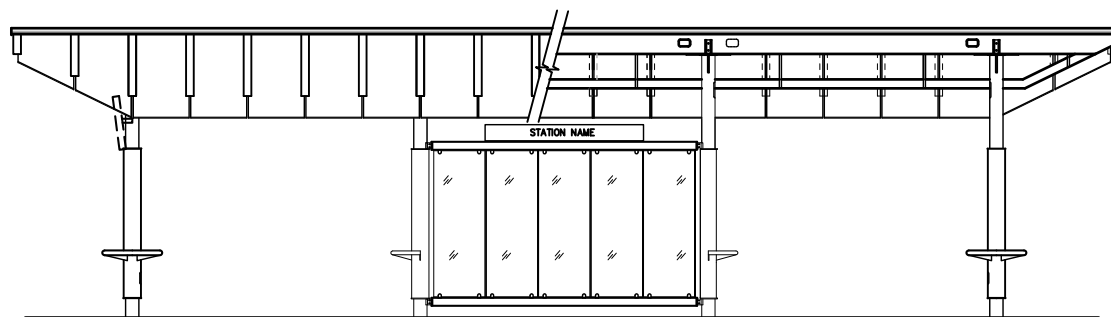
jcortson

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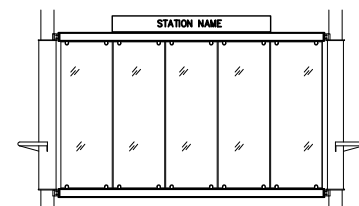
- NOTES:
1. SEE A15S-002 SCHEDULE
 2. REF. PMLR EAST & WEST SEGMENT DRAWINGS FOR QUANTITIES, A15E-006, A15W-003



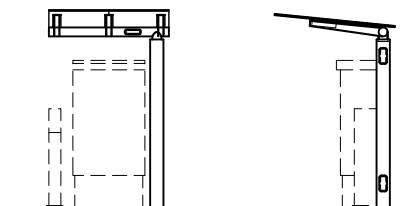
GLASS ROOF PLATFORM SHELTER - TYPE 1A
REF A15S-011



GLASS ROOF PLATFORM SHELTER - TYPE 1A
REF A15S-010



WINDSCREEN - TYPE 1A (W/O WINGS AND BENCH)
REF A15S-030






TVM SHELTER - TYPE 1
REF A15S-040

PLATFORM SHELTER & WINDSCREEN FAMILY

1

NO.	DATE	BY	APPD.	REVISIONS

MDR DESIGNED	01-27-12 DATE
JFC DRAWN	01-27-12 DATE
RAH CHECKED	03-19-12 DATE
KHF APPROVED	03-23-12 DATE

 TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON			
 Mayer/Reed	 TRI MET		
CAPITAL PROJECTS AND FACILITIES DIVISION 710 N.E. HOLLADAY STREET PORTLAND, OREGON 97232			
SUBMITTED:	DATE:	APPROVED:	DATE:

PORTLAND TO MILWAUKIE LRT AMENITIES			
Exhibit T 34			
PLATFORM SHELTER, WINDSCREEN & TVM SHELTER FAMILY			
SCALE:	DRAWING NO.:	CONTRACT NO.:	SHEET NO.:
	A15S-001	RH100186JB	1

- NOTES:
1. PLATFORM SLOPE VARIES. SEE PMLR EAST & WEST CIVIL PLANS AND FIELD VERIFY.
 2. REF. A15S-001 FOR PLATFORM SHELTER, WINDSCREEN & TVM SHELTER TYPES.
 3. REF. A15S-021 FOR LEANING RAIL TYPES.

STATION	REF. DWG.	PLATFORM SLOPE	PLATFORM SHELTER				WINDSCREEN
			TYPE	QTY.	COLOR	LEANING RAIL	TYPE
LINCOLN ST. / SW 3RD AVE.	A15W-226	3.50	1A	1	P4	2	1A
SOUTH WATERFRONT / SW MOODY AVE. (NB)	A15W-227	1.09	1A	2	P4	2	1A
SOUTH WATERFRONT / SW MOODY AVE. (SB)	A15W-228	1.09	1A	2	P4	2	1A
OMSI / SE WATER AVE. (NB)	A15E-400/A15E-401	1.09	1A	2	P4	2	1A
OMSI / SE WATER AVE. (NB)	A15E-400/A15E-401	1.09	1A	2	P4	2	1A
CLINTON / SE 12TH AVE.	A15E-410	0.52	2A	1	P4	1	1C
SE 17TH AVE. & RHINE ST.	A15E-420	0.47	2A	1	P4	1	1B
SE 17TH AVE. & HORGATE BLVD.	A15E-430	0.12	2A	1	P4	1	1C
SE BYBEE BLVD.	A15E-440	0	1A	1	P4	1	1C
SE TACOMA ST. / JOHNSON CREEK	A15E-450	0.76	2A	1	P4	1	1C
MILWAUKIE / MAIN ST.	A15E-460	1.32	1A	1	P1	1	1B
SE PARK AVE.	A15E-470	3.00	1A	1	P4	1	1B

PLATFORM SHELTER & WINDSCREEN SCHEDULE



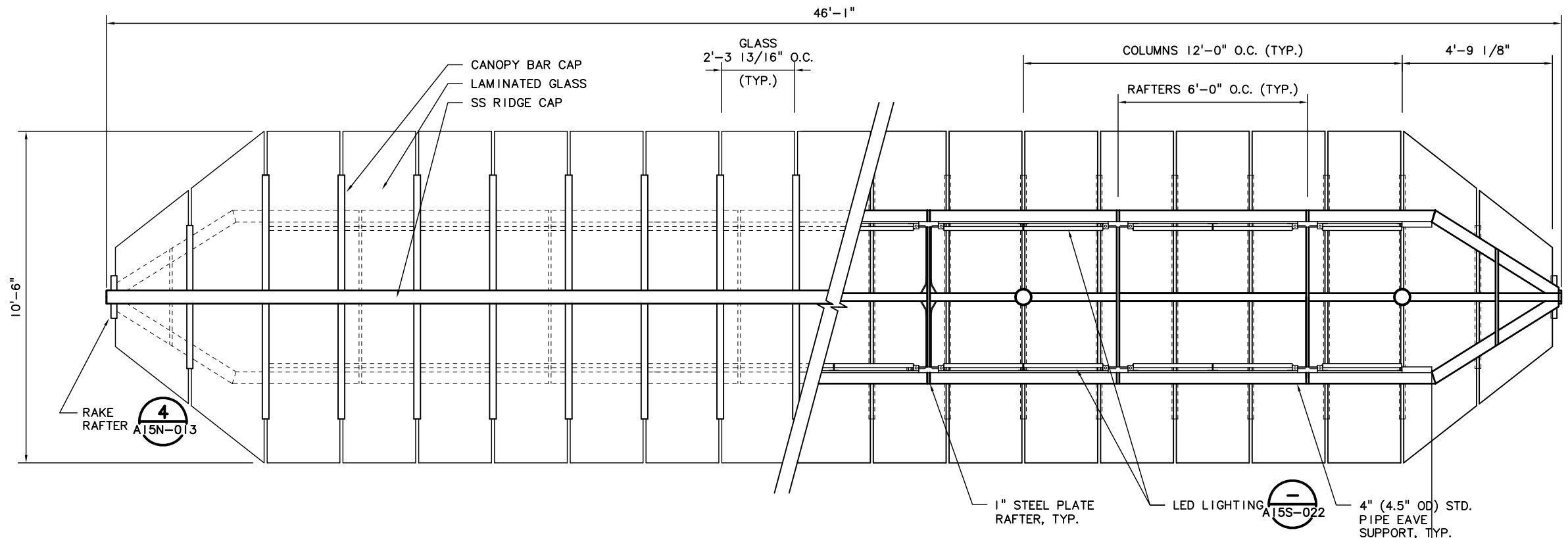
STATION	REF. DWG.	QTY.	TYPE	MIRROR LAYOUT	COLOR
LINCOLN ST. / SW 3RD AVE.	A15W-220	2	3		P4
SOUTH WATERFRONT / SW MOODY AVE. (NB)	A15W-222	2	1	1	P4
SOUTH WATERFRONT / SW MOODY AVE. (SB)	A15W-224	2	1	1	P4
OMSI / SE WATER AVE. (NB)	A15E-402	2	1	1	P4
OMSI / SE WATER AVE. (NB)	A15E-402	2	1		P4
CLINTON / SE 12TH AVE.	A15E-411	2	1		P4
SE 17TH AVE. & RHINE ST.	A15E-421	2	1		P4
SE 17TH AVE. & HORGATE BLVD.	A15E-431	2	1		P4
SE TACOMA ST. / JOHNSON CREEK	A15E-451/A153-452	2	1		P4
MILWAUKIE / MAIN ST.	A15E-461/A15E-462	2	1		P1
SE PARK AVE.	A15E-471/A15E-472	4	1		P4

TVM SCHEDULE



Mar 22, 2012 10:55pm
 jperdon
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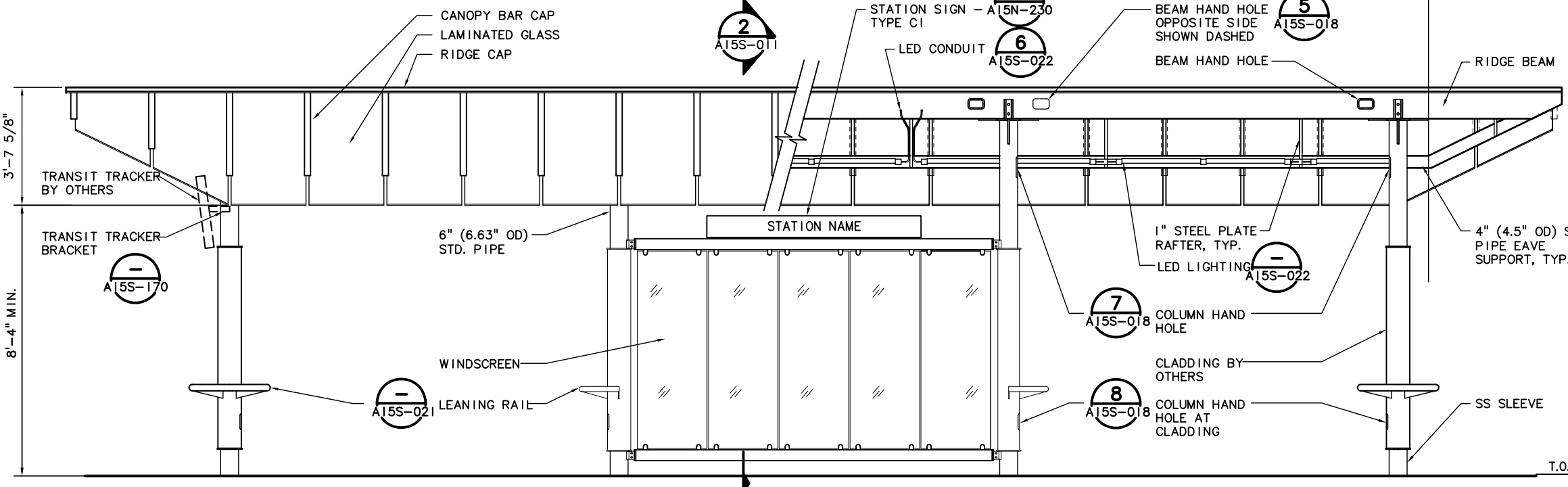
MDR DESIGNED 01-27-12 DATE JFC DRAWN 01-27-12 DATE RAH CHECKED 03-19-12 DATE KHF APPROVED 03-23-12 DATE					TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON			PORTLAND TO MILWAUKIE LRT AMENITIES Exhibit T 35 PLATFORM SHELTER, WINDSCREEN & TVM SHELTER SCHEDULE				
					Mayer/Reed			TRI MET CAPITAL PROJECTS AND FACILITIES DIVISION 710 N.E. HOLLADAY STREET PORTLAND, OREGON 97232				
NO.	DATE	BY	APPD.	REVISIONS	SUBMITTED:	DATE:	APPROVED:	DATE:	SCALE:	DRAWING NO.:	CONTRACT NO.:	SHEET NO.:
		CHK.							AS NOTED	A15S-002	RH100186JB	



TYPE IA - GLASS ROOF PLAN
SCALE: 1/2" = 1'-0"

TYPE IA - GLASS ROOF REFLECTED CEILING PLAN
SCALE: 1/2" = 1'-0"

- NOTES:
1. PLATFORM SLOPE VARIES. SEE PMLR EAST & WEST CIVIL PLANS AND FIELD VERIFY.
 2. COLUMNS SHALL BE PLUMB WITH ROOF AND WINDSCREEN STRUCTURE LEVEL REGARDLESS OF PLATFORM SLOPE.
 3. 2 HAND HOLES PER SHELTER COLUMN.
 4. SEE A15S-002 SHELTER SCHEDULE FOR WINDSCREEN TYPE, LEANING RAIL TYPE AND PAINT COLOR.
 5. SEE PMLR EAST & WEST ARCHITECTURAL PLANS FOR TRANSIT TRACKER LOCATION AND WINDSCREEN CONFIGURATION.
 6. ALL MILD STEEL COMPONENTS PAINTED, EXCEPT AS NOTED.
 7. ELECTRICAL TO LIGHT FIXTURES BY OTHERS. REF. PMLR EAST & WEST SEGMENT ELECTRICAL DRAWINGS.



TYPE IA - SIDE ELEVATION
SCALE: 1/2" = 1'-0"

TYPE IA - LONGITUDINAL SECTION
SCALE: 1/2" = 1'-0"

Mar 22, 2012 10:58pm
 jperfon
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NO.	DATE	BY	APPD.	REVISIONS

MDR DESIGNED	01-27-12 DATE
JFC DRAWN	01-27-12 DATE
RAH CHECKED	03-19-12 DATE
KHF APPROVED	03-23-12 DATE

TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

Mayer/Reed

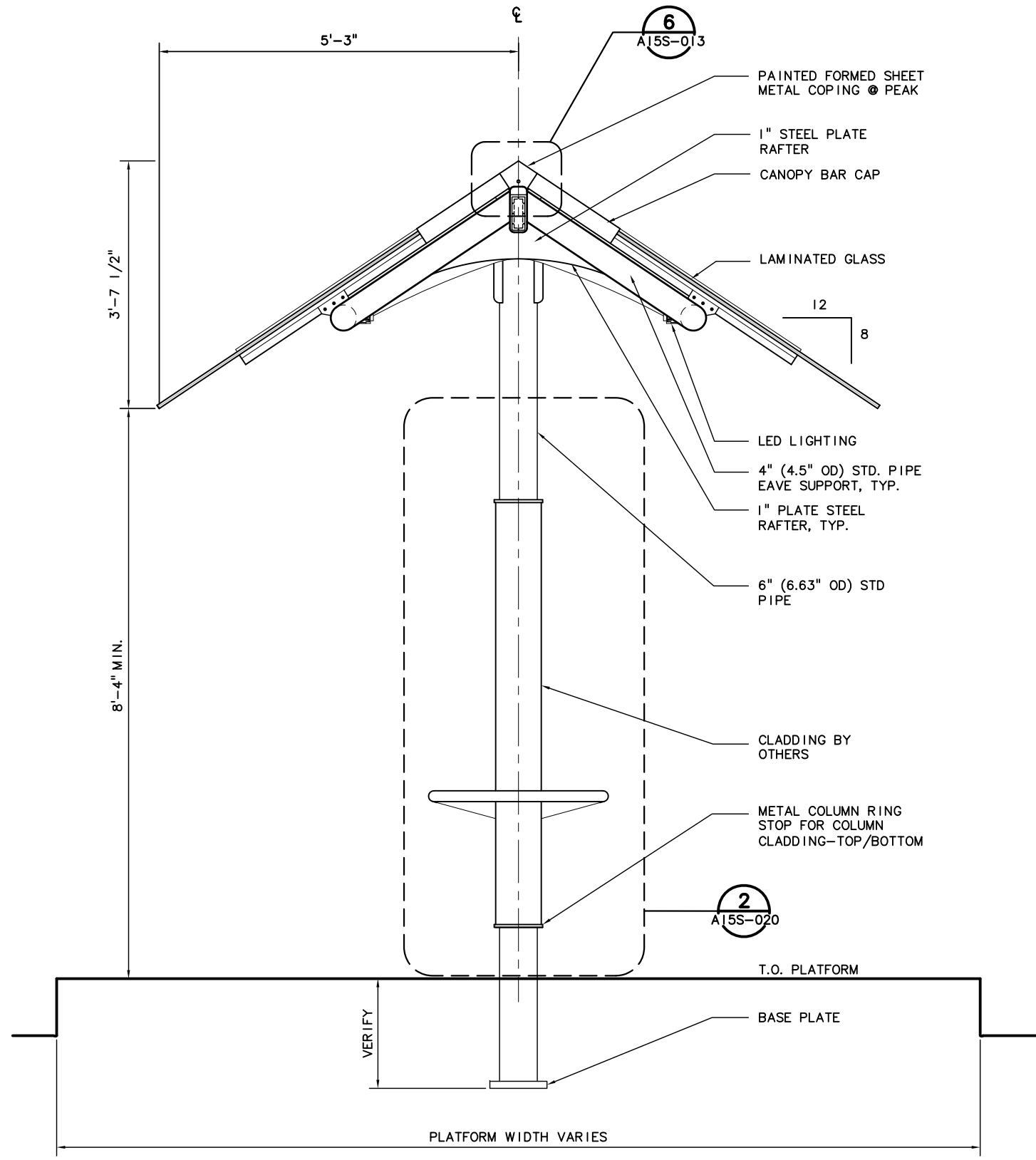
TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

CAPITAL PROJECTS AND FACILITIES DIVISION
 710 N.E. HOLLADAY STREET
 PORTLAND, OREGON 97232

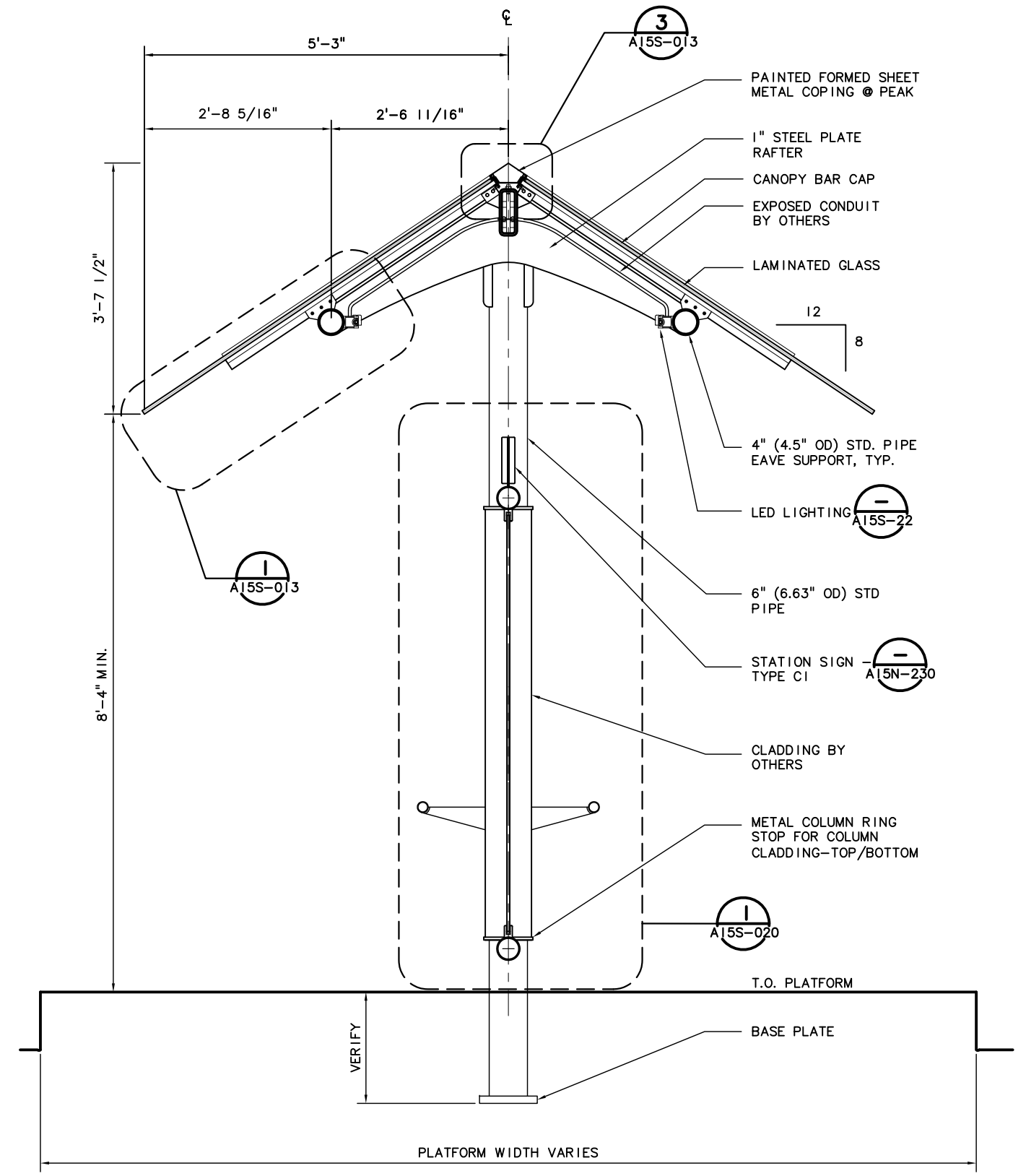
PORTLAND TO MILWAUKIE LRT
AMENITIES Exhibit T 36
 PLATFORM SHELTER - TYPE IA
 PLAN & ELEVATION

SUBMITTED:	DATE:	APPROVED:	DATE:	SCALE:	DRAWING NO.:	CONTRACT NO.:	SHEET NO.:
				AS NOTED	A15S-010	RH100186JB	

Mar 22, 2012 11:02pm
 jperdon
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TYPE AI - ELEVATION END VIEW
 SCALE: 1" = 1'-0"



TYPE AI - SECTION
 SCALE: 1" = 1'-0"

NO.	DATE	BY	APPD.	REVISIONS

MDR DESIGNED	01-27-12 DATE
JFC DRAWN	01-27-12 DATE
RAH CHECKED	03-19-12 DATE
KHF APPROVED	03-23-12 DATE

TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

Mayer/Reed

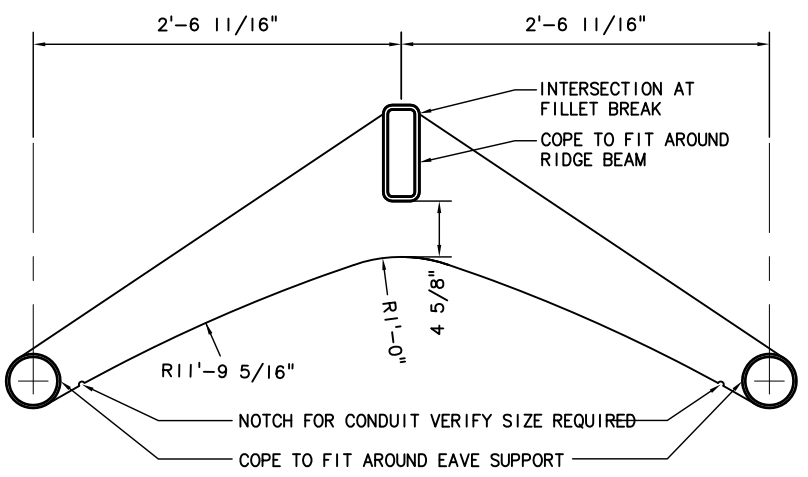
TRI MET

CAPITAL PROJECTS AND FACILITIES DIVISION
 710 N.E. HOLLADAY STREET
 PORTLAND, OREGON 97232

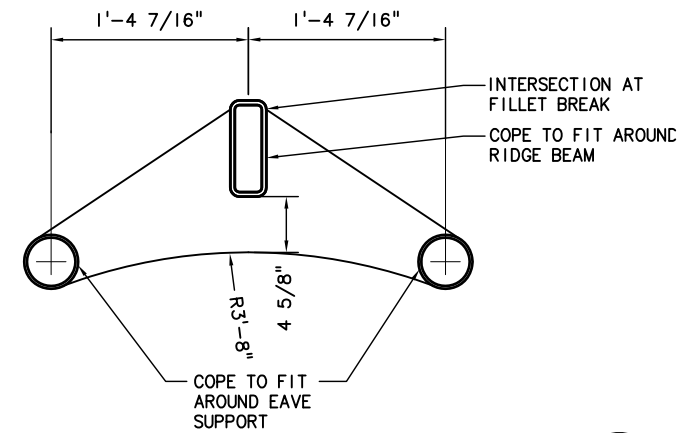
PORTLAND TO MILWAUKIE LRT
AMENITIES Exhibit T 37
 PLATFORM SHELTER - TYPE IA
 ELEVATION & SECTION

SUBMITTED:	DATE:	APPROVED:	DATE:	SCALE:	DRAWING NO.:	CONTRACT NO.:	SHEET NO.:
				AS NOTED	A15S-011	RH100186JB	

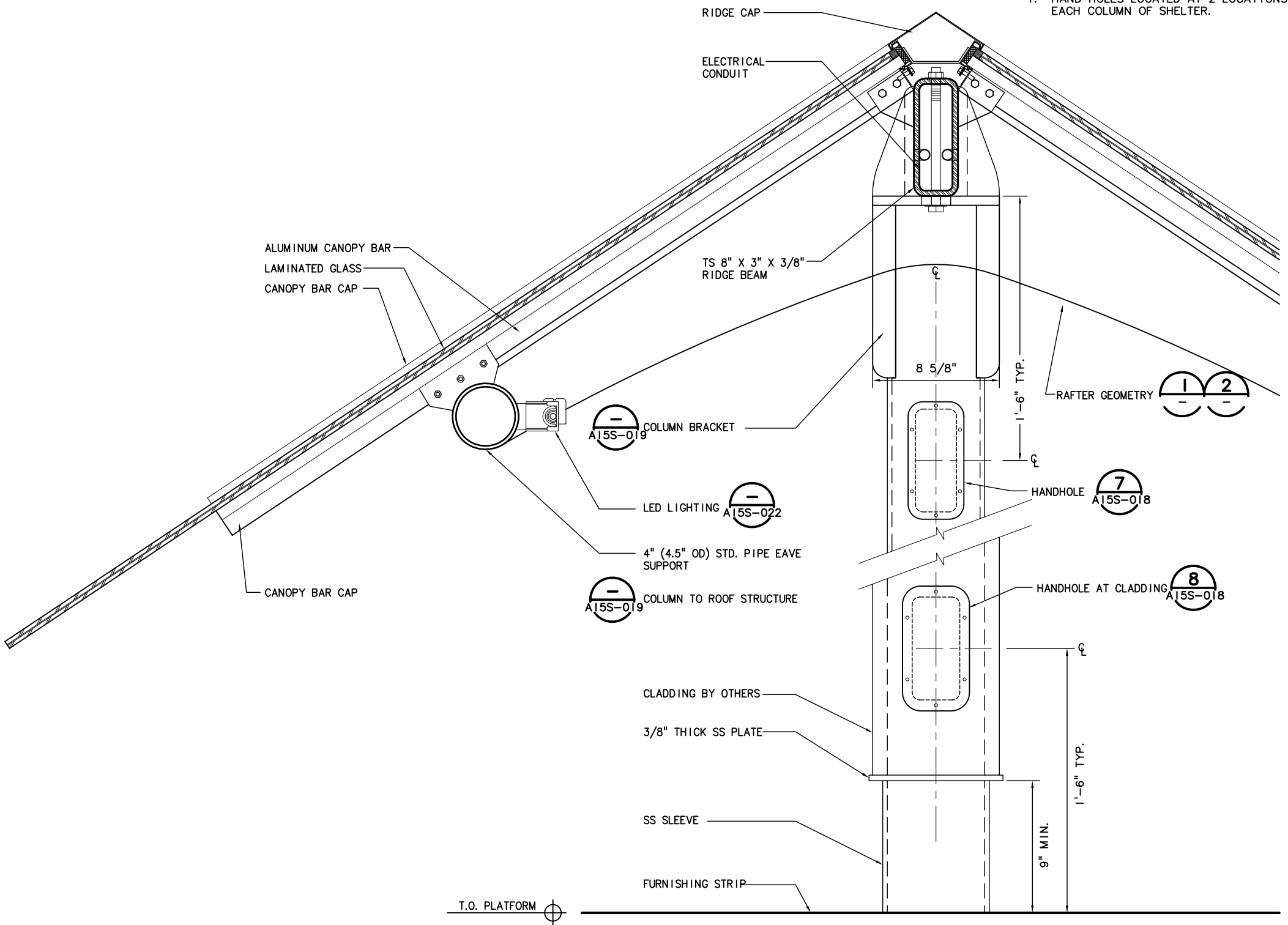
NOTES:
1. HAND HOLES LOCATED AT 2 LOCATIONS, EACH COLUMN OF SHELTER.



TYPE IA - COPING AT TYPICAL RAFTER
SCALE: 1 1/2" = 1'-0"



TYPE IA - COPING AT END RAFTER END
SCALE: 1 1/2" = 1'-0"



TYPE IA - SHELTER DETAIL
SCALE: 3" = 1'-0"

Mar 22, 2012 11:07pm

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NO.	DATE	BY	APPD.	REVISIONS

MDR	01-27-12
DESIGNED	DATE
JFC	01-27-12
DRAWN	DATE
RAH	03-19-12
CHECKED	DATE
KHF	03-23-12
APPROVED	DATE

TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

Mayer/Reed

TRI MET

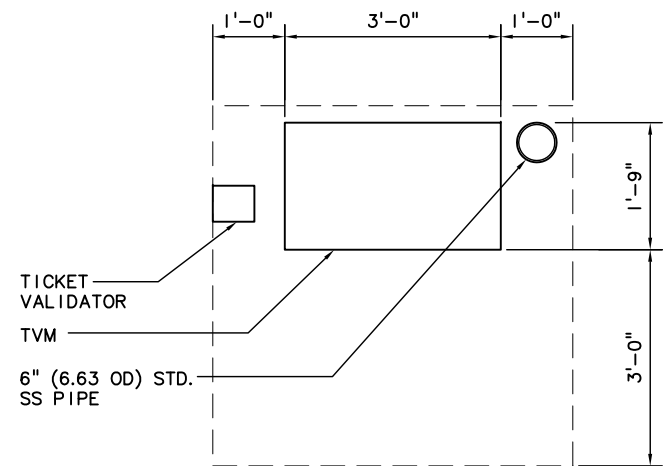
CAPITAL PROJECTS AND FACILITIES DIVISION
710 N.E. HOLLADAY STREET
PORTLAND, OREGON 97232

SUBMITTED: DATE: APPROVED: DATE:

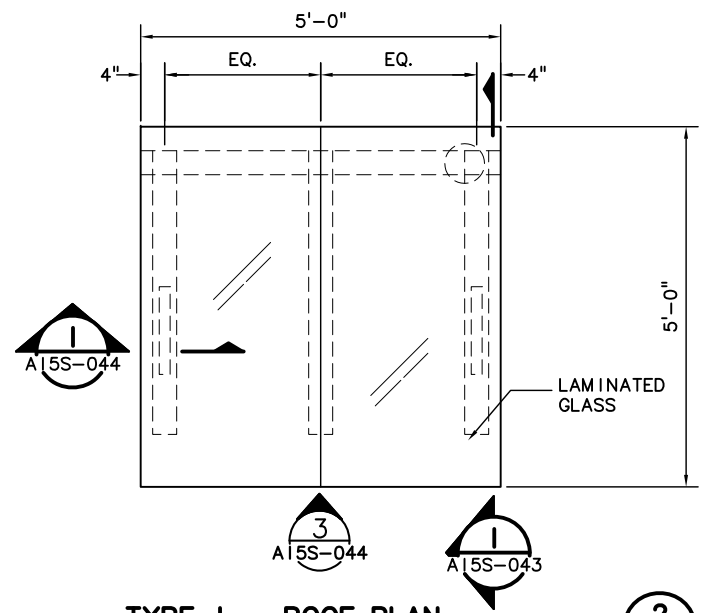
PORTLAND TO MILWAUKIE LRT
AMENITIES Exhibit T 38
PLATFORM SHELTER - TYPE IA
DETAILS

SCALE: AS NOTED
DRAWING NO.: A15S-012
CONTRACT NO.: RH100186JB
SHEET NO.:

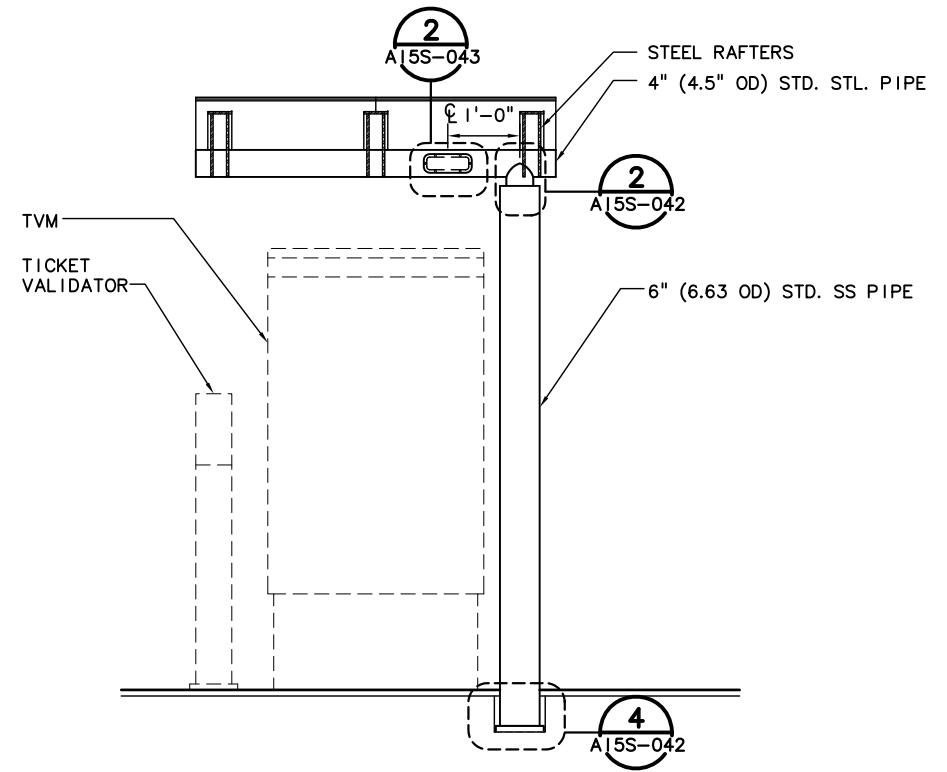
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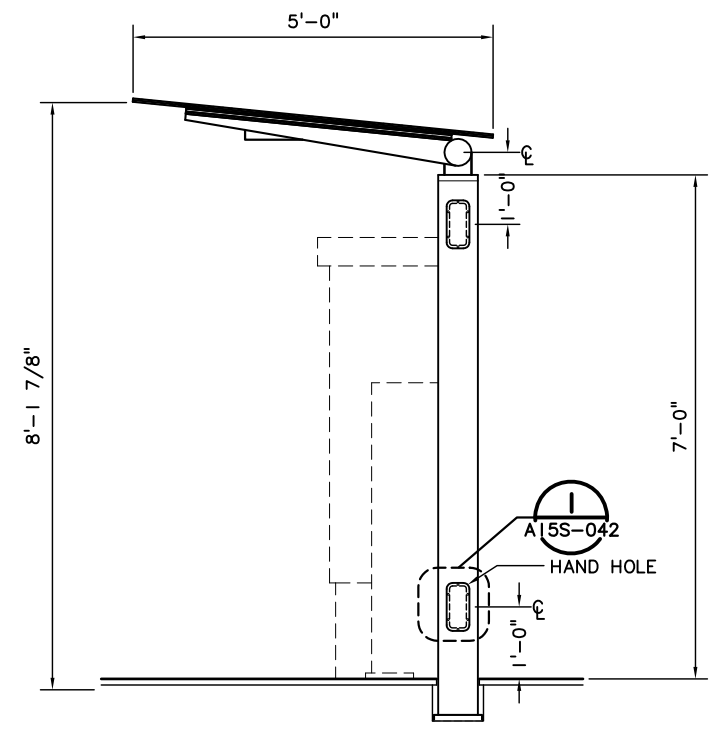
TYPE I - EQUIPMENT PLAN
SCALE: 3/4" = 1'-0"



TYPE I - ROOF PLAN
SCALE: 3/4" = 1'-0"



TYPE I - FRONT ELEVATION
SCALE: 3/4" = 1'-0"



TYPE I - SIDE ELEVATION
SCALE: 3/4" = 1'-0"

- NOTES:
1. ROOF DIMENSIONS INDICATE MINIMUM ROOF OVERHANG CLEARANCE AT TVM.
 2. MIRROR LAYOUT WITH SUPPORT COLUMN ON LEFT WHERE INDICATED ON SHELTER SCHEDULE. REF. A15S-002
 3. TVM AND TICKET VALIDATOR OWNER FURNISHED.
 4. FOUNDATION & ANCHOR BOLTS BY OTHERS. REF. PMLR EAST AND WEST SEGMENT DRAWINGS.
 5. ELECTRICAL & LIGHT FIXTURES BY OTHERS. REF. PMLR EAST & WEST SEGMENT DRAWINGS.

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NO.	DATE	BY	APPD.	REVISIONS

MDR	01-27-12
DESIGNED	DATE
EAC	01-27-12
DRAWN	DATE
RAH	03-19-12
CHECKED	DATE
KHF	03-23-12
APPROVED	DATE

TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

Mayer/Reed

TRI MET

CAPITAL PROJECTS AND FACILITIES DIVISION
 710 N.E. HOLLADAY STREET
 PORTLAND, OREGON 97232

SUBMITTED:	DATE:	APPROVED:	DATE:

PORTLAND TO MILWAUKIE LRT AMENITIES
Exhibit T 39

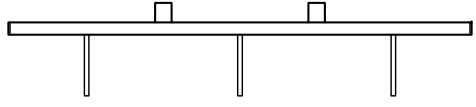
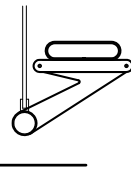
TVM SHELTER - TYPE I
 PLAN & ELEVATION

SCALE:	DRAWING NO.:	CONTRACT NO.:	SHEET NO.:
AS NOTED	A15S-040	RH100186JB	

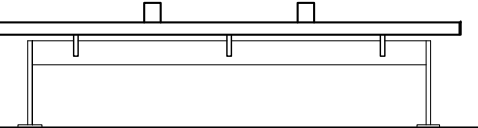
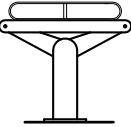
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Mar 22, 2012 11:24am
bmarth

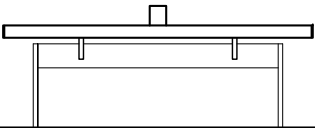
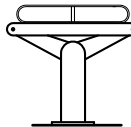
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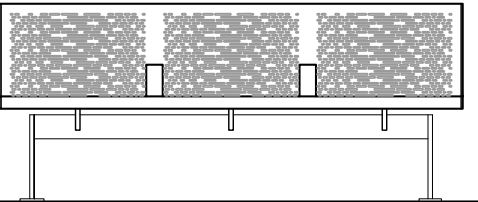
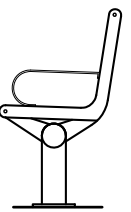
BENCH - TYPE 1
WINDSCREEN MOUNTED
REF. A15S-110



BENCH - TYPE 2
FREESTANDING, 3 SEAT
REF. A15S-111

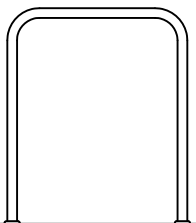


BENCH - TYPE 3
FREESTANDING, 2 SEAT
REF. A15S-112

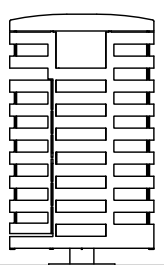


BENCH - TYPE 4
FREESTANDING, 3 SEAT W/ BACK
REF. A15S-114

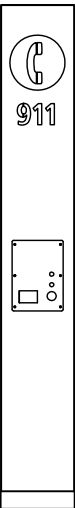
NOTES:
1. REF. PMLR EAST & WEST
SEGMENT DRAWINGS FOR
QUANTITIES, A15E-006,
A15W-003.



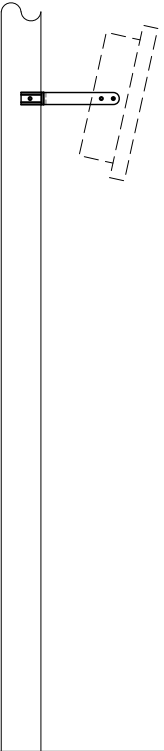
BIKE RACK
REF. A15S-134



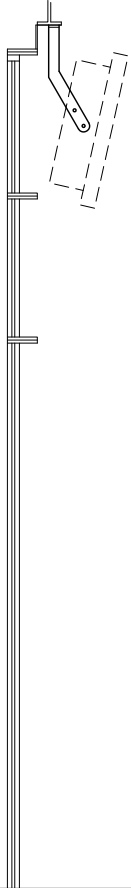
TRASH RECEPTACLE
REF. A15S-120



EMERGENCY PHONE
REF. A15S-130



TRANSIT TRACKER TYPE 1
REF. A15S-170



TRANSIT TRACKER TYPE 2
REF. A15S-171

FURNISHINGS FAMILY



NO.	DATE	BY	APPD.	REVISIONS

MDR 01-27-12
DESIGNED DATE

JFC 01-27-12
DRAWN DATE

RAH 03-19-12
CHECKED DATE

KHF 03-23-12
APPROVED DATE



TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

Mayer/Reed



CAPITAL PROJECTS
AND
FACILITIES DIVISION
710 N.E. HOLLADAY STREET
PORTLAND, OREGON 97232

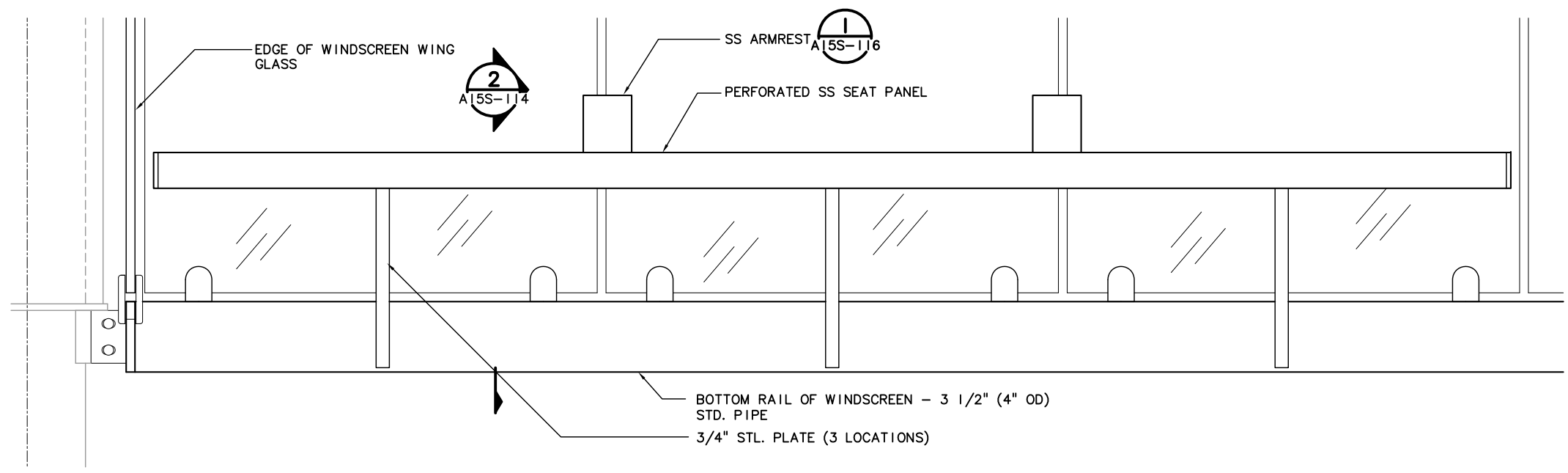
PORTLAND TO MILWAUKIE LRT
AMENITIES Exhibit T 40
FURNISHINGS FAMILY

SUBMITTED:	DATE:	APPROVED:	DATE:	SCALE:	DRAWING NO.:	CONTRACT NO.:	SHEET NO.:
				AS NOTED	A15S-100	RH100186JB	

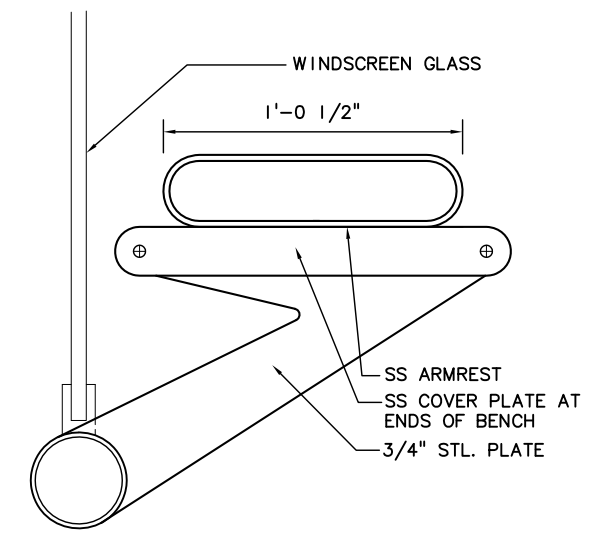
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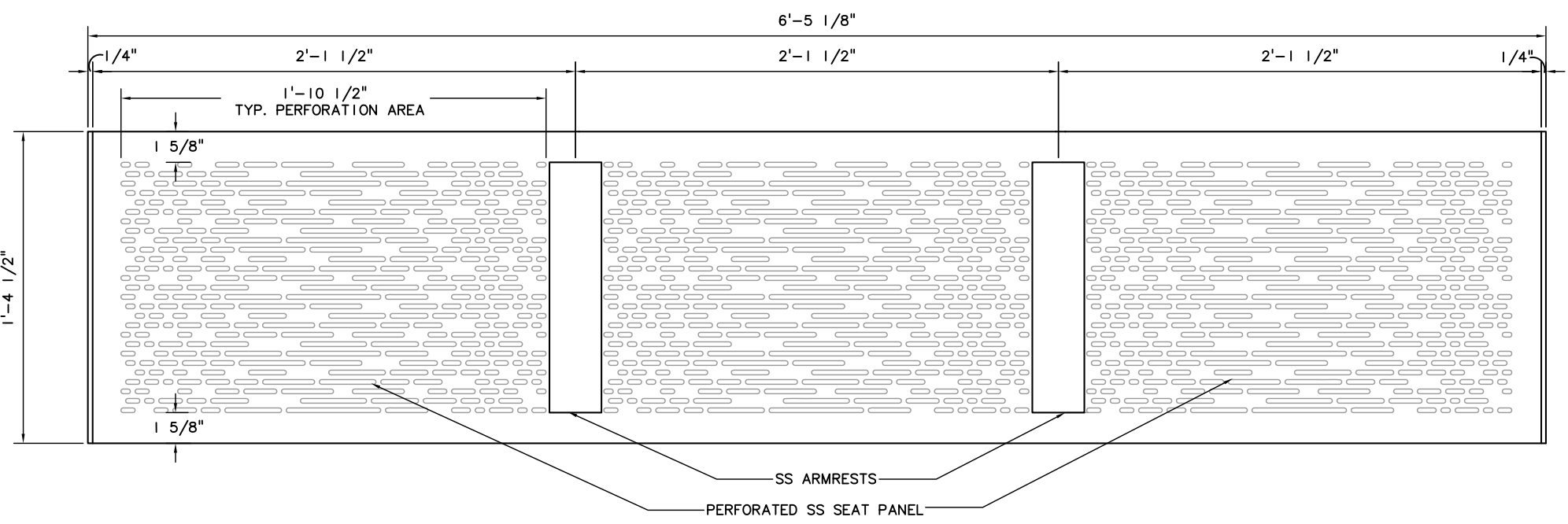
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BENCH TYPE 1 - ELEVATION AT WINDSCREEN
SCALE: 3" = 1'-0"



BENCH TYPE 1 - END ELEVATION
SCALE: 3" = 1'-0"



BENCH TYPE 1 - PLAN
SCALE: 3" = 1'-0"



- NOTES:
1. FINISH ALL STEEL BENCH COMPONENTS WITH ABRASION RESISTANT COATING EXCEPT AS NOTED. COLOR TO MATCH WINDSCREEN.
 2. STAINLESS STEEL FINISH AS SPECIFIED.
 3. PERFORATED PATTERN DIGITAL ARTWORK PROVIDED BY OWNER.

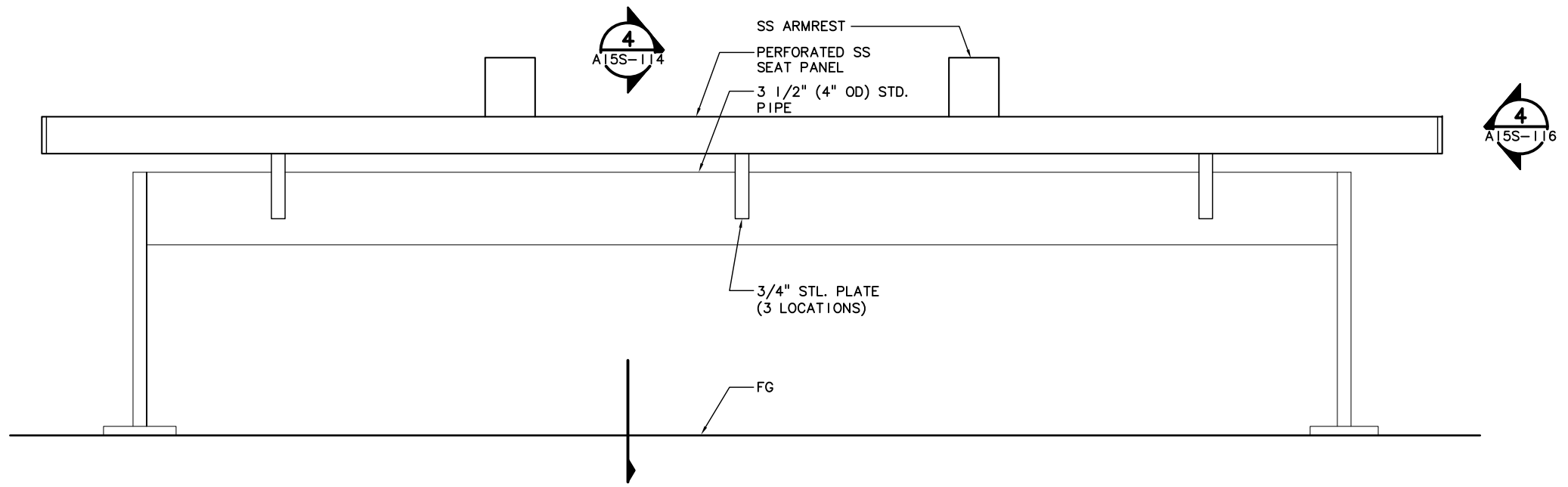
NO.	DATE	BY	APPD.	REVISIONS

MDR DESIGNED	01-27-12 DATE
EAC DRAWN	01-27-12 DATE
RAH CHECKED	03-19-12 DATE
KHF APPROVED	03-23-12 DATE

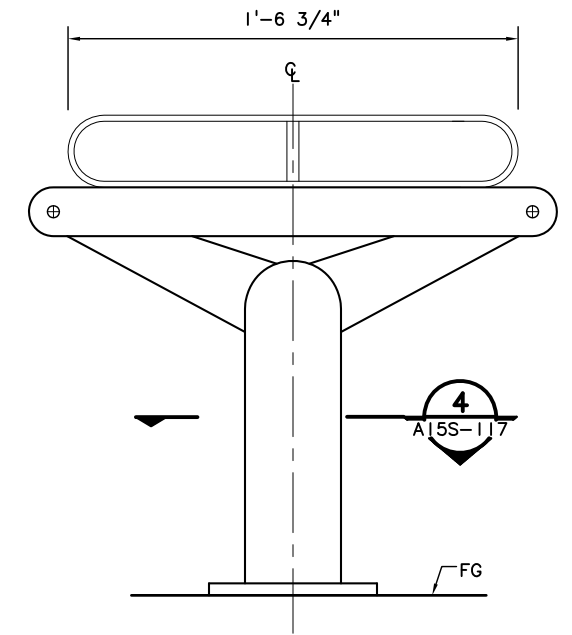
TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON			
CAPITAL PROJECTS AND FACILITIES DIVISION 710 N.E. HOLLADAY STREET PORTLAND, OREGON 97232			
SUBMITTED:	DATE:	APPROVED:	DATE:

PORTLAND TO MILWAUKIE LRT AMENITIES Exhibit T 41 BENCH - TYPE 1 PLAN & ELEVATION			
SCALE:	DRAWING NO.:	CONTRACT NO.:	SHEET NO.:
AS NOTED	A15S-110	RH100186JB	

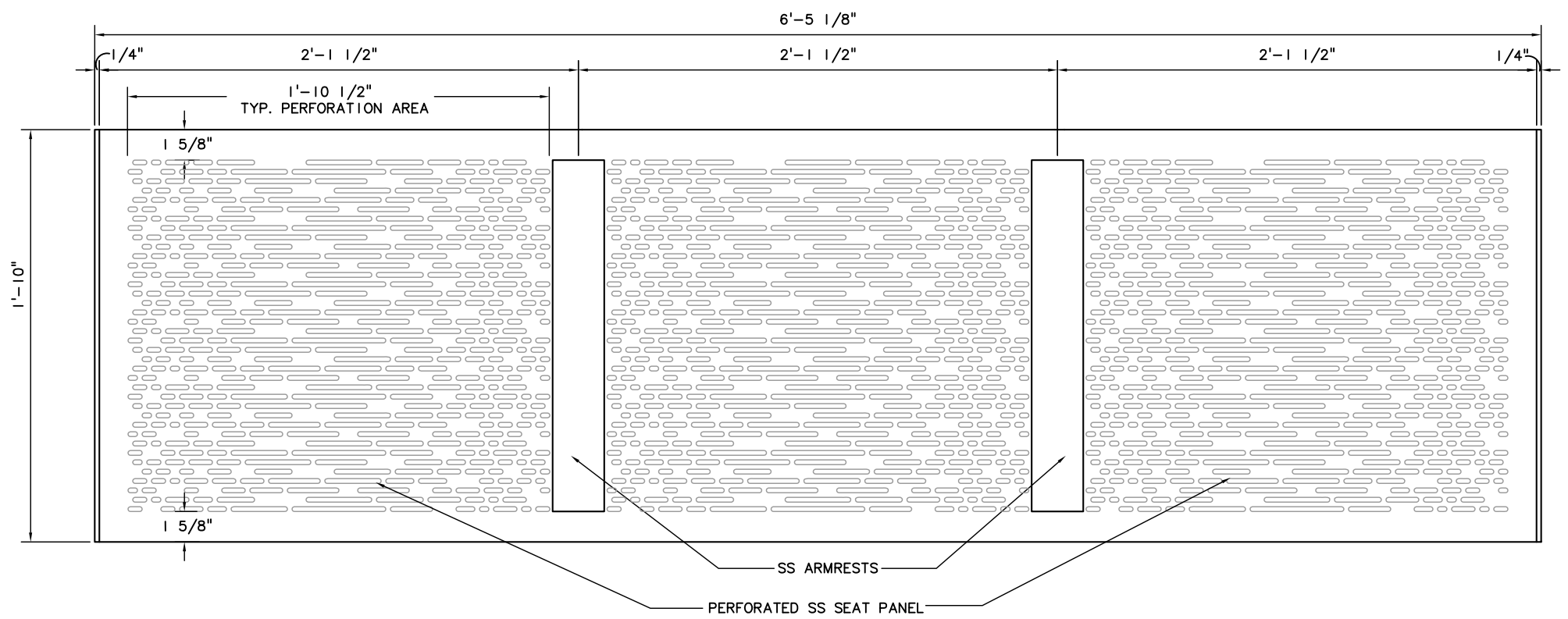
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BENCH TYPE 2 - ELEVATION
SCALE: 3" = 1'-0"



BENCH TYPE 2 - END ELEVATION
SCALE: 3" = 1'-0"



BENCH TYPE 2 - PLAN
SCALE: 3" = 1'-0"

- NOTES:**
1. FINISH ALL STEEL BENCH COMPONENTS WITH ABRASION RESISTANT COATING EXCEPT AS NOTED. COLOR TO MATCH WINDSCREEN.
 2. STAINLESS STEEL FINISH AS SPECIFIED.
 3. PERFORATED PATTERN DIGITAL ARTWORK PROVIDED BY OWNER.

NO.	DATE	BY	APPD.	REVISIONS

MDR DESIGNED	01-27-12 DATE
EAC DRAWN	01-27-12 DATE
RAH CHECKED	03-19-12 DATE
KHF APPROVED	03-23-12 DATE

TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

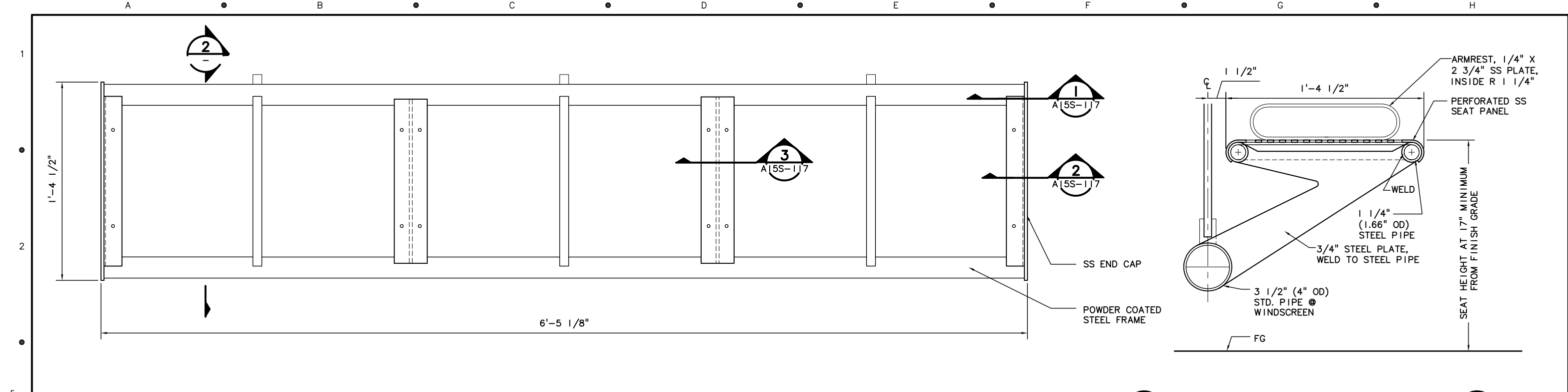
Mayer/Reed

TRI MET

CAPITAL PROJECTS AND FACILITIES DIVISION
 710 N.E. HOLLADAY STREET
 PORTLAND, OREGON 97232

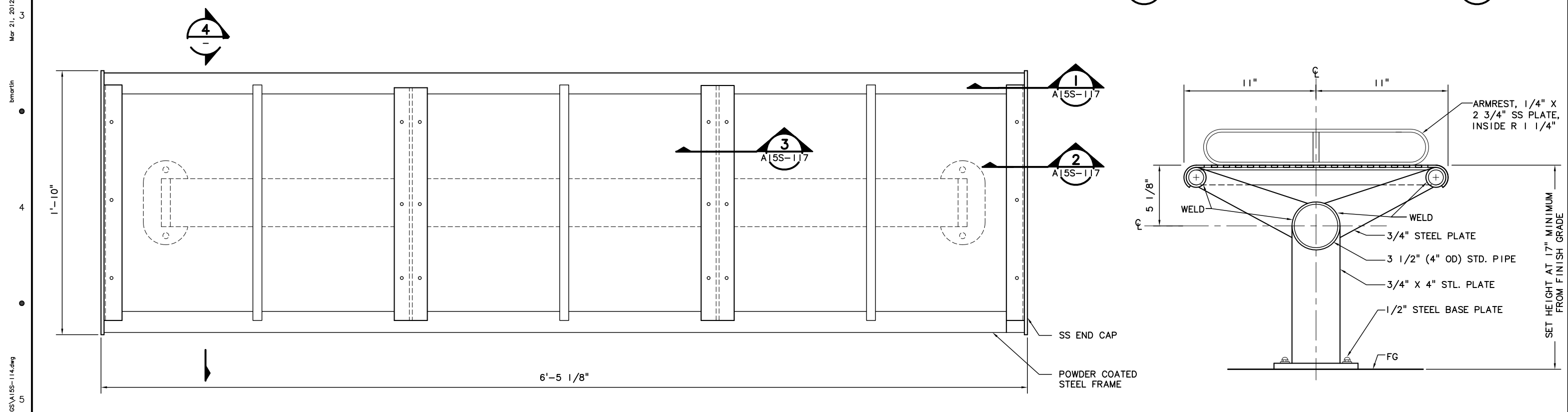
PORTLAND TO MILWAUKIE LRT
AMENITIES Exhibit T 42
 BENCH - TYPE 2
 PLAN & ELEVATION

SUBMITTED:	DATE:	APPROVED:	DATE:	SCALE:	DRAWING NO.:	CONTRACT NO.:	SHEET NO.:
				AS NOTED	A15S-111	RH100186JB	



BENCH TYPE 1 - FRAME PLAN
SCALE: 3" = 1'-0"

BENCH TYPE 1 - SECTION
SCALE: 3" = 1'-0"



BENCH TYPE 2 - FRAME PLAN
SCALE: 3" = 1'-0"

BENCH TYPE 2 - SECTION
SCALE: 3" = 1'-0"

Mar 21, 2012 10:09pm
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 100% DWGS A15S-114.dwg

NO.	DATE	BY	APPD.	REVISIONS

MDR DESIGNED	01-27-12 DATE
EAC DRAWN	01-27-12 DATE
RAH CHECKED	03-19-12 DATE
KHF APPROVED	03-23-12 DATE

TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

Mayer/Reed

TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

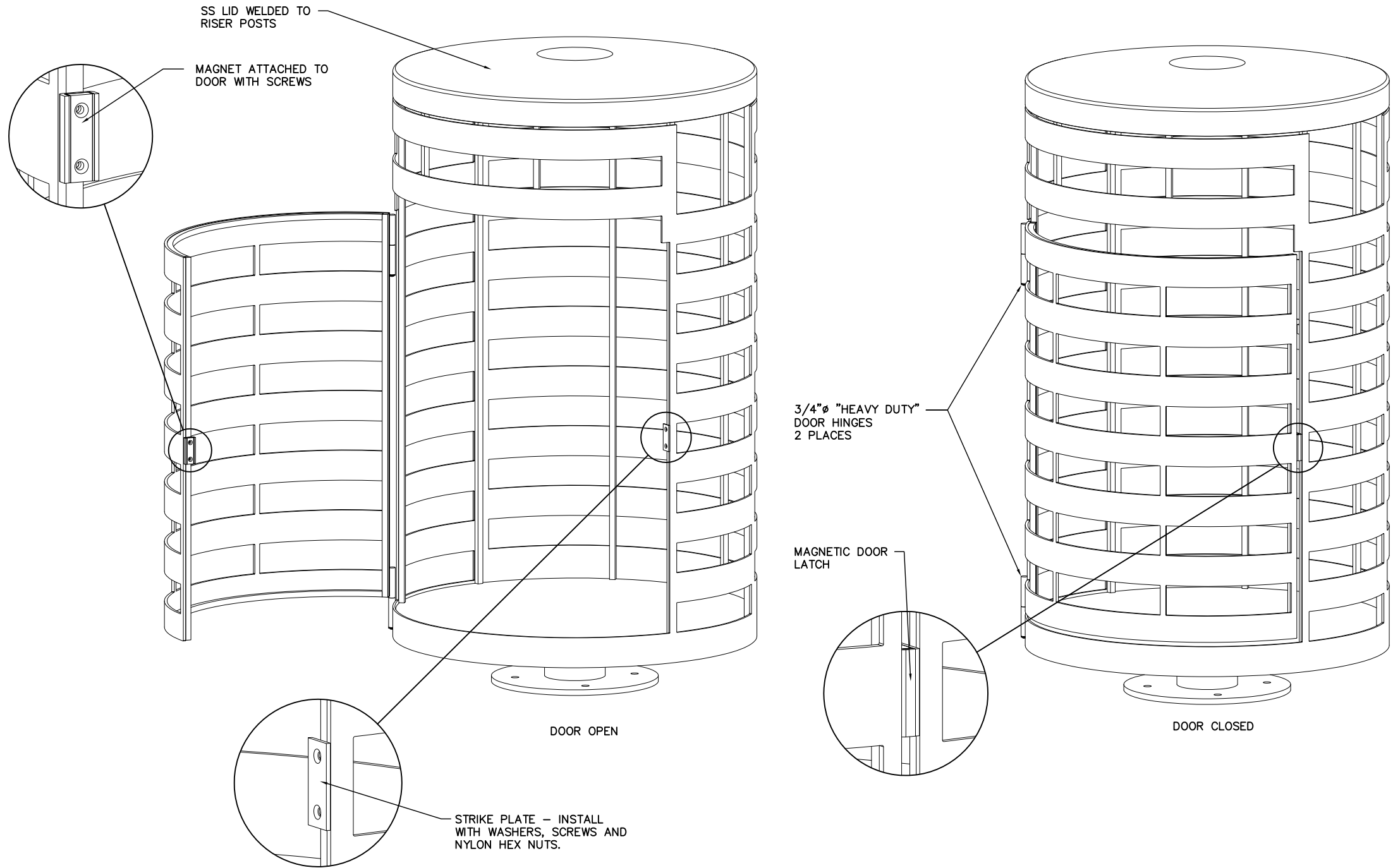
CAPITAL PROJECTS AND FACILITIES DIVISION
 710 N.E. HOLLADAY STREET
 PORTLAND, OREGON 97232

PORTLAND TO MILWAUKIE LRT
AMENITIES Exhibit T 43
 BENCH - TYPE 1 & 2
 FRAME PLAN & SECTION

SCALE: AS NOTED	DRAWING NO.: A15S-114	CONTRACT NO.: RH100186JB	SHEET NO.:
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- NOTES:
1. POWDERCOAT COLOR MATCH TO PLATFORM SHELTER COLOR. REF. A15S-002
 2. NON-CORROSIVE ANCHORING HARDWARE SUPPLIED BY OTHERS.
 3. PROVIDE (2) CLEAR 36 GALLON PLASTIC LINERS PER TRASH RECEPTACLE.



TRASH RECEPTACLE - PERSPECTIVE
SCALE: NTS

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I:\2 VC PROJECTS\TMA\001\2012-05-23 100% DWGS\A15S-120.dwg

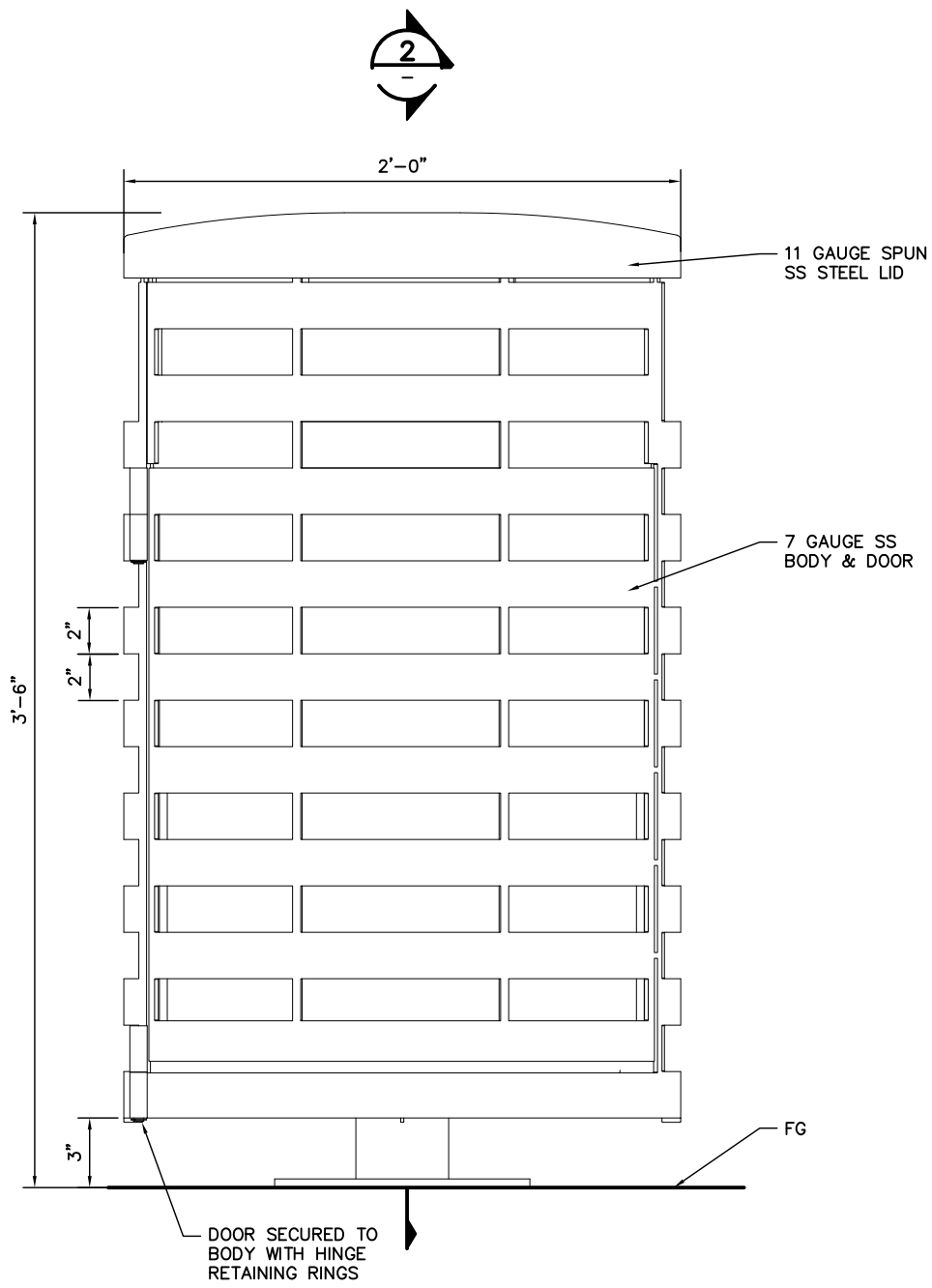
NO.	DATE	BY	APPD.	REVISIONS

MDR DESIGNED	01-27-12 DATE
EAC DRAWN	01-27-12 DATE
RAH CHECKED	03-19-12 DATE
KHF APPROVED	03-23-12 DATE

TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON	
CAPITAL PROJECTS AND FACILITIES DIVISION 710 N.E. HOLLADAY STREET PORTLAND, OREGON 97232	
SUBMITTED:	DATE:
APPROVED:	DATE:

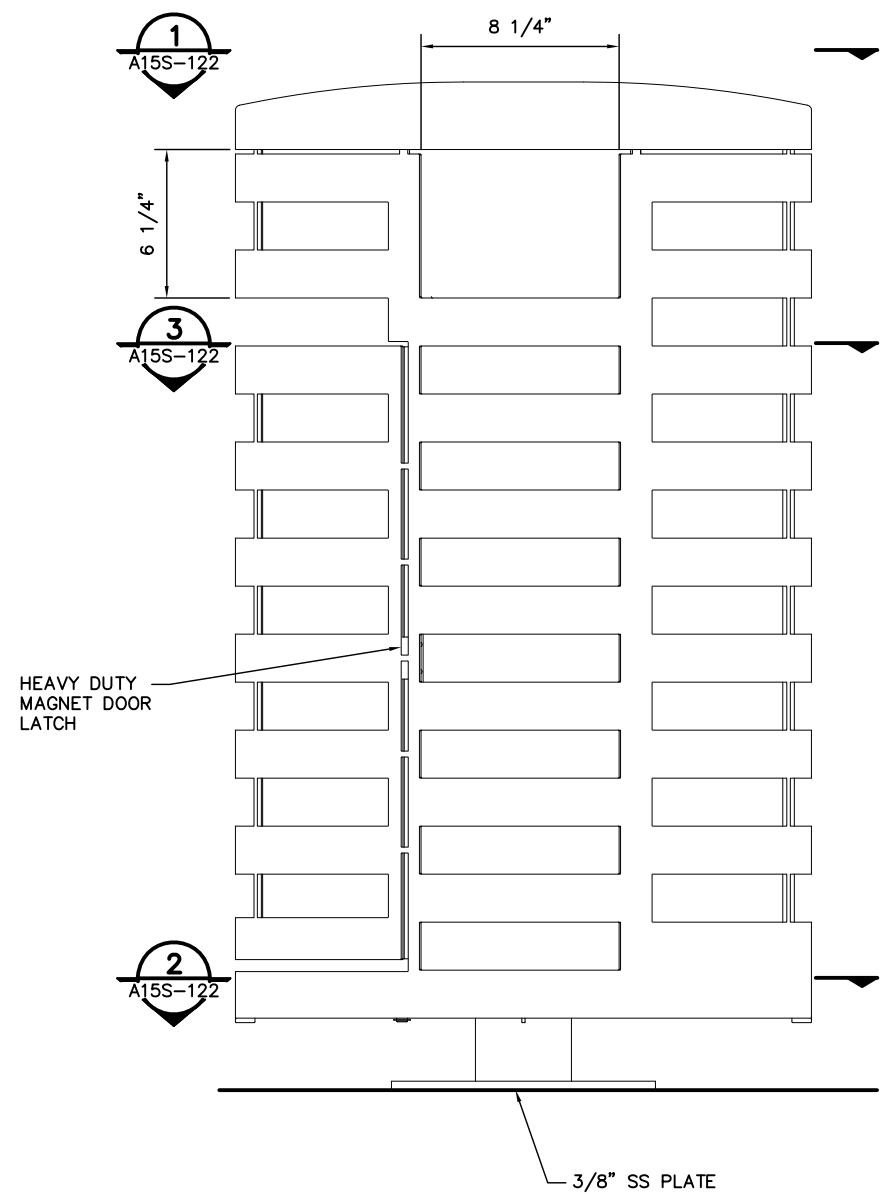
PORTLAND TO MILWAUKIE LRT AMENITIES			
Exhibit T 44			
TRASH RECEPTACLE - TYPE 1			
SCALE:	DRAWING NO.:	CONTRACT NO.:	SHEET NO.:
AS NOTED	A15S-120	RH100186JB	

- NOTES:
1. POWDERCOAT COLOR MATCH TO PLATFORM SHELTER COLOR. REF. A15S-002
 2. NON-CORROSIVE ANCHORING HARDWARE SUPPLIED BY OTHERS.
 3. PROVIDE (2) CLEAR 36 GALLON PLASTIC LINERS PER TRASH RECEPTACLE.



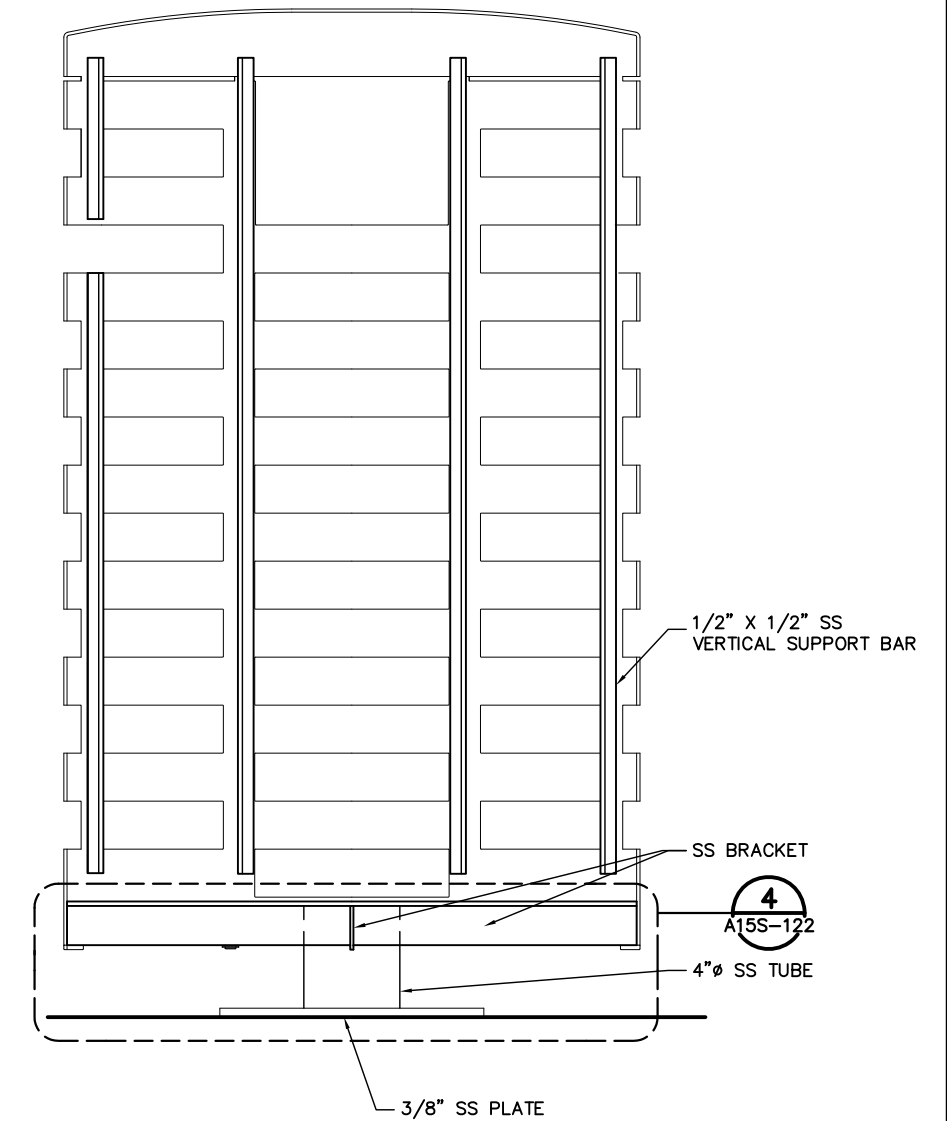
TRASH RECEPTACLE - ELEVATION
SCALE: 3" = 1'-0"

1



TRASH RECEPTACLE - ELEVATION
SCALE: 3" = 1'-0"

2



TRASH RECEPTACLE - SECTION
SCALE: 3" = 1'-0"

3

I:\2 VC PROJECTS\TMA\001\2012-05-23 100% DWGS\A15S-121.dwg Mar 22, 2012 1:28pm

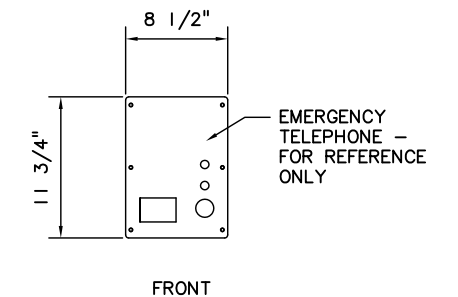
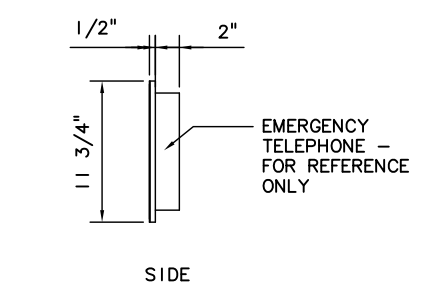
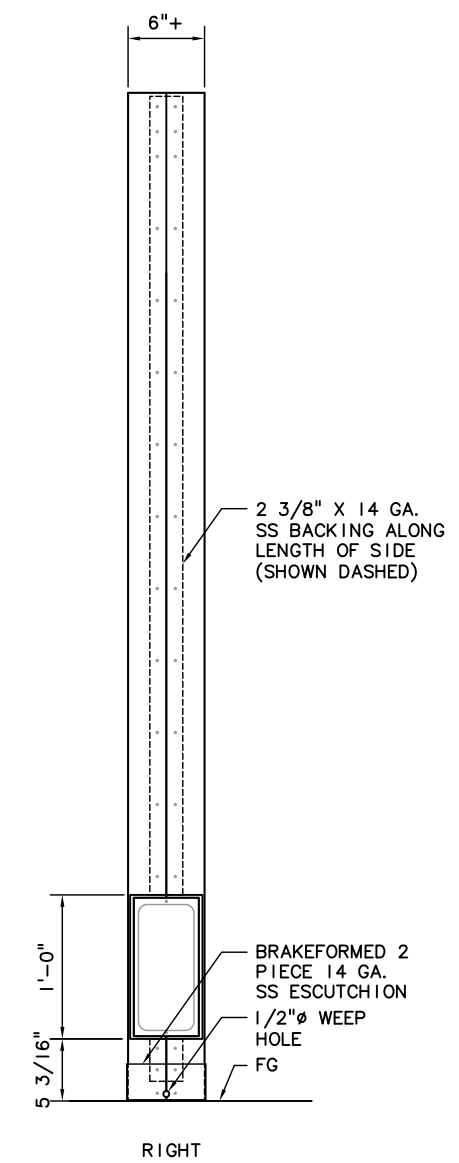
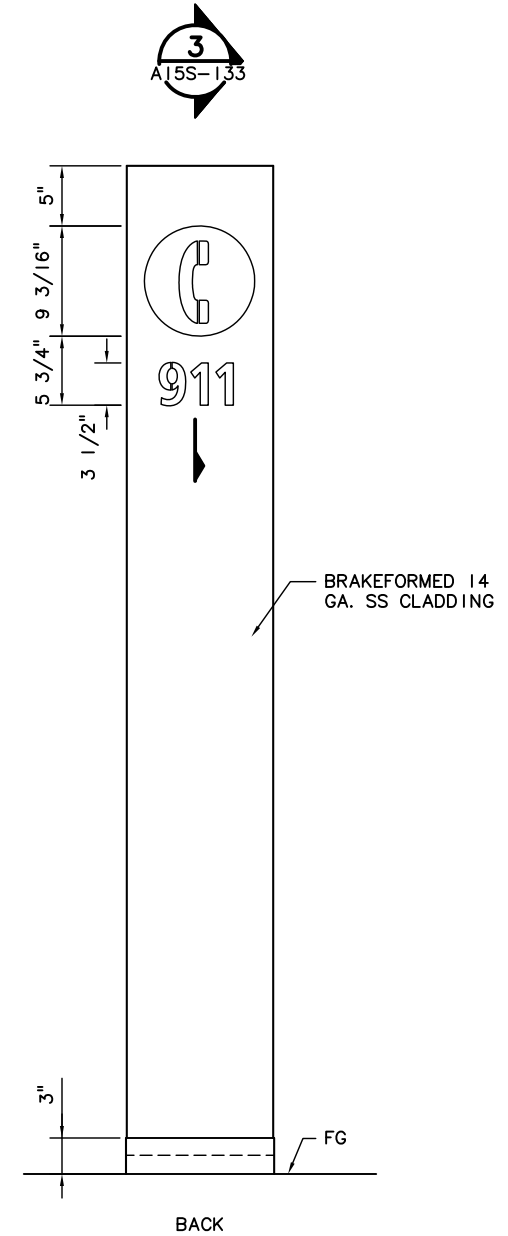
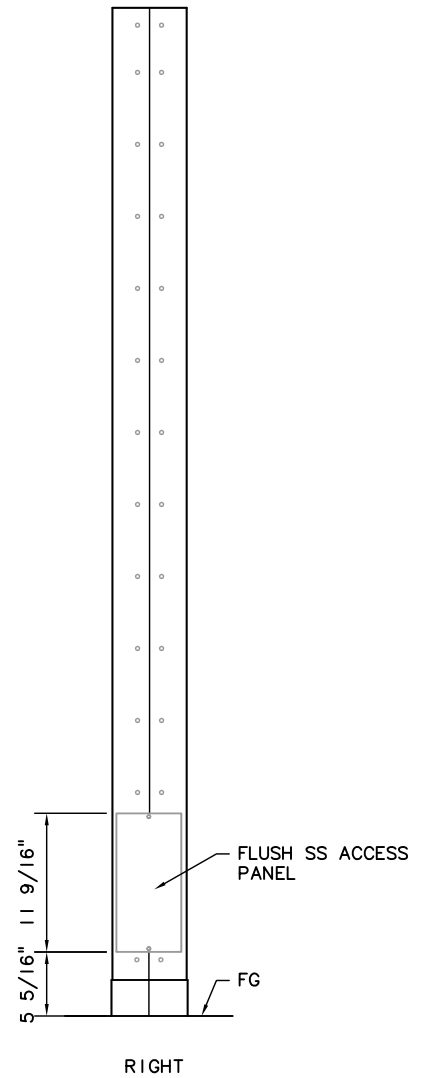
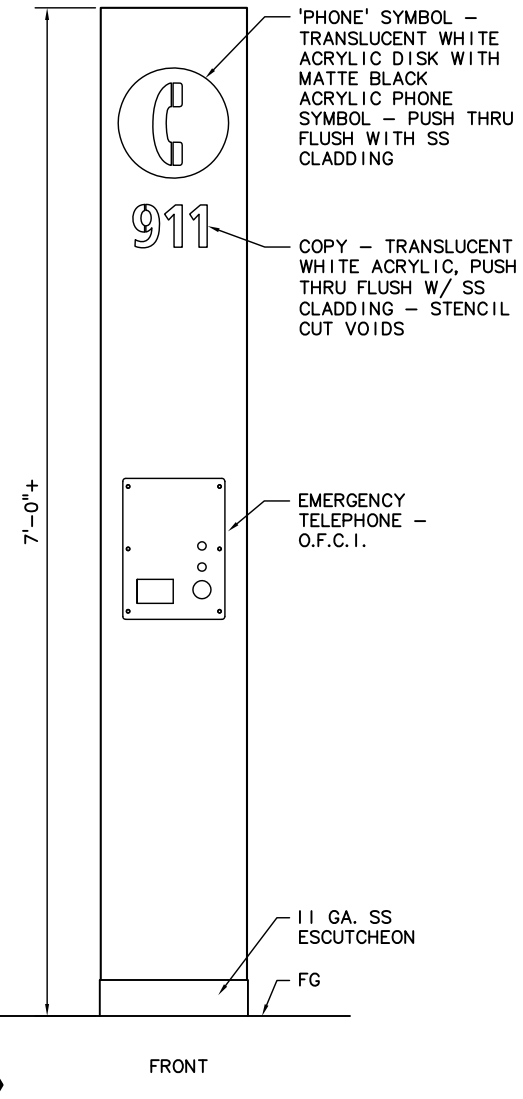
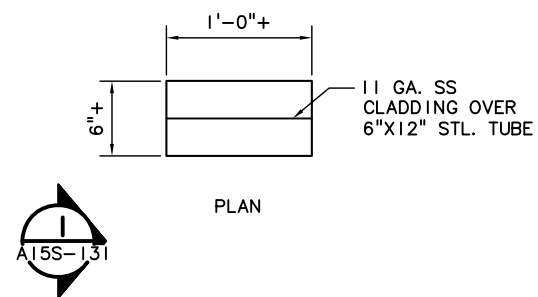
NO.	DATE	BY	APPD.	REVISIONS

MDR DESIGNED	01-27-12 DATE
EAC DRAWN	01-27-12 DATE
RAH CHECKED	03-19-12 DATE
KHF APPROVED	03-23-12 DATE

		TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON	
		CAPITAL PROJECTS AND FACILITIES DIVISION 710 N.E. HOLLADAY STREET PORTLAND, OREGON 97232	
SUBMITTED:	DATE:	APPROVED:	DATE:

PORTLAND TO MILWAUKIE LRT AMENITIES Exhibit T 45 TRASH RECEPTACLE - TYPE 1 ELEVATION & SECTION			
SCALE:	DRAWING NO.:	CONTRACT NO.:	SHEET NO.:
AS NOTED	A15S-121	RH100186JB	

- NOTES:
1. STAINLESS STEEL FINISH: AS SPECIFIED.
 2. REF. PMLR EAST & WEST SEGMENT ARCHITECTURAL PLANS FOR LOCATIONS.
 3. PHONE TO BE LOCATED ON THE PEDESTAL SIDE CLOSEST TO THE CENTER OF PLATFORM.
 4. FOUNDATION & ANCHOR BOLTS BY OTHERS. REF. PMLR EAST & WEST DRAWINGS.
 5. DIGITAL ARTWORK FOR SIGN LAYOUT TO BE PROVIDED BY OWNER.
 6. TELEPHONE PROVIDED BY OWNER.



TELEPHONE
SCALE: 1 1/2" = 1'-0" (2)

EMERGENCY PHONE PEDESTAL ELEVATION
SCALE: 1 1/2" = 1'-0" (1)

Mar 21, 2012 10:14pm
bmarth
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NO.	DATE	BY	APPD.	REVISIONS

MDR DESIGNED	01-27-12 DATE
JFC DRAWN	01-27-12 DATE
RAH CHECKED	03-19-12 DATE
KHF APPROVED	03-23-12 DATE

TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

Mayer/Reed

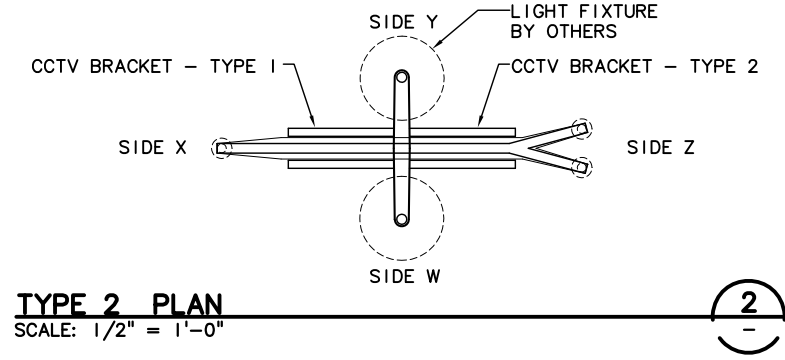
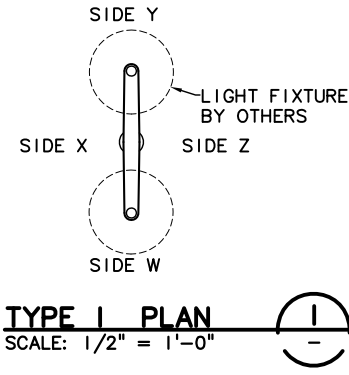
TRI MET

CAPITAL PROJECTS AND FACILITIES DIVISION
 710 N.E. HOLLADAY STREET
 PORTLAND, OREGON 97232

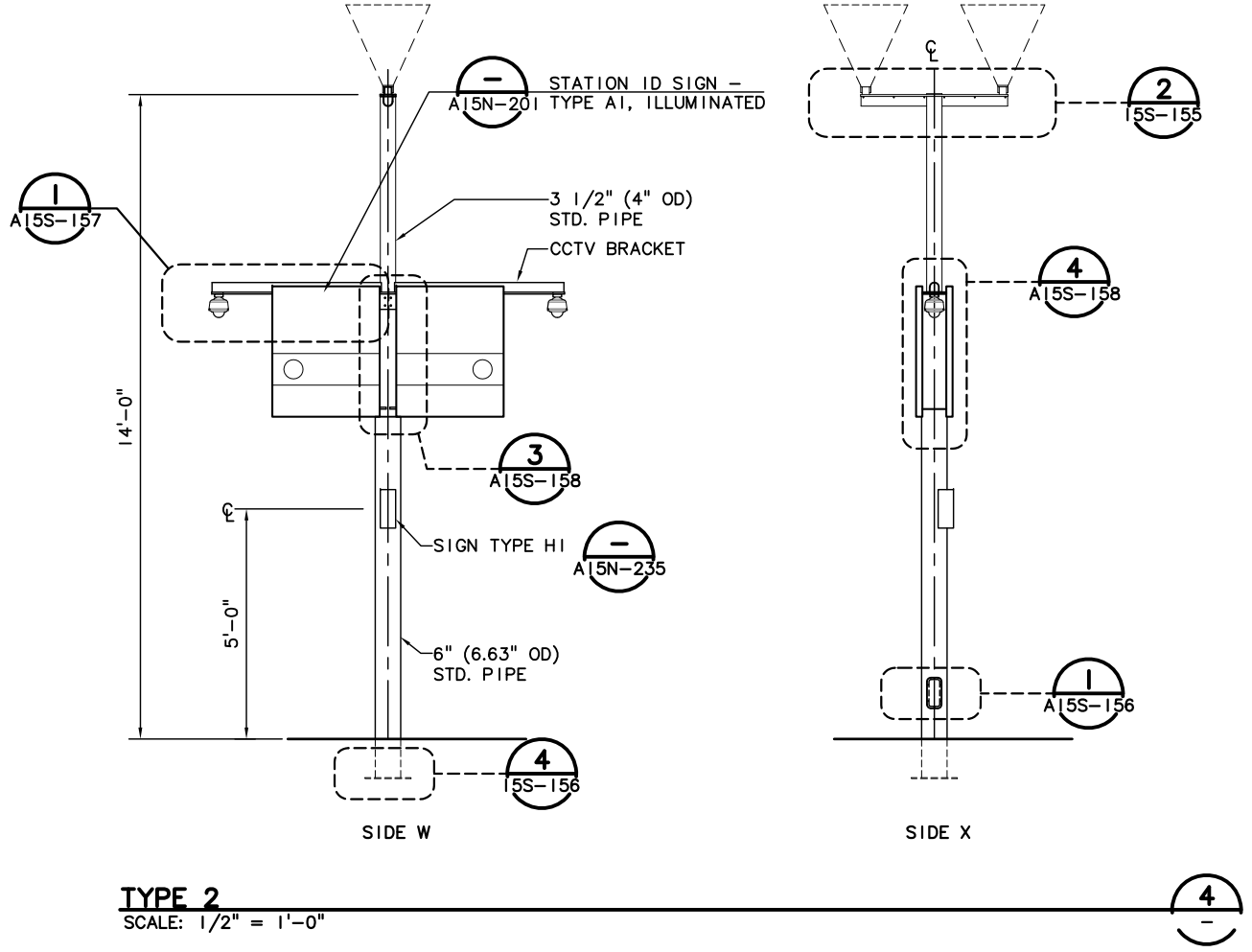
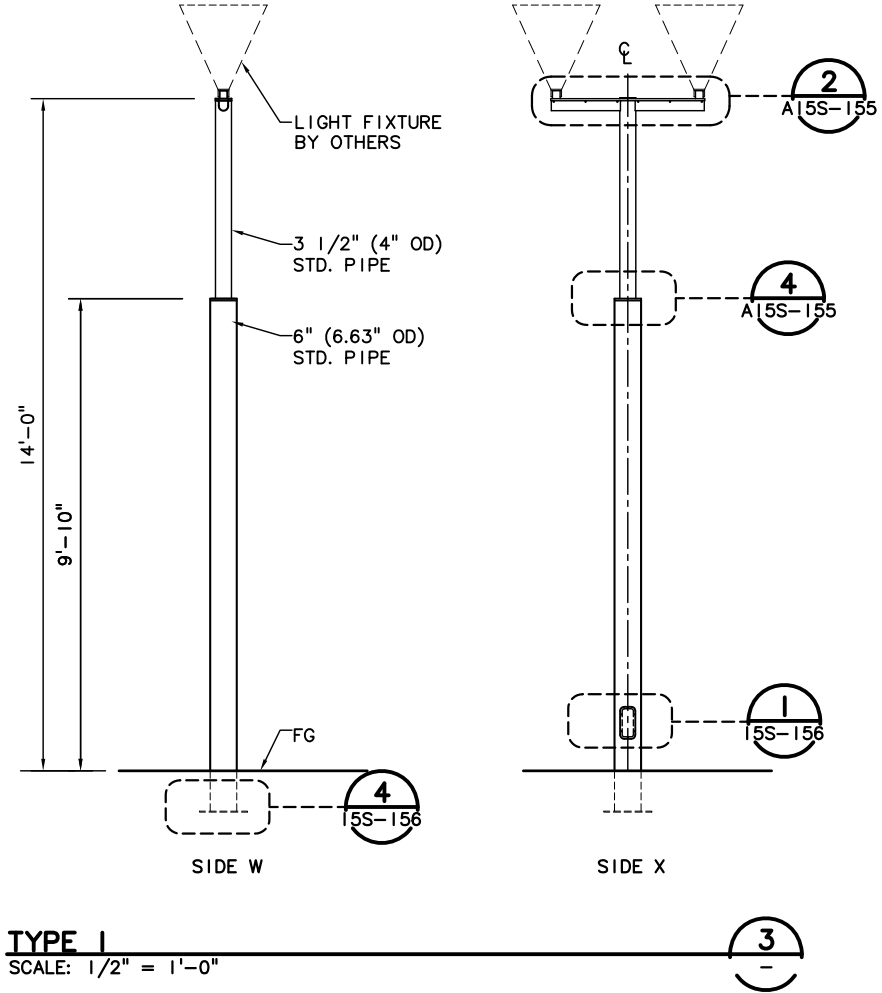
SUBMITTED:	DATE:	APPROVED:	DATE:
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PORTLAND TO MILWAUKIE LRT
AMENITIES Exhibit T 46
 EMERGENCY PHONE PEDESTAL ELEVATION

SCALE: AS NOTED	DRAWING NO.: A15S-130	CONTRACT NO.: RH100544JB	SHEET NO.:
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- NOTES:
- SIDE "W" TO BE ORIENTED TO SOUTHBOUND END OF PLATFORM.
 - CCTV BRACKET TYPE AND POSITION VARIES. REF. A15S-153, A15S-154 LIGHT AND CCTV POLE SCHEDULE.
 - REF. A15S-157 FOR CCTV BRACKET TYPE 1 & 2.
 - SIGHT TYPE HI NOT APPLIED TO ALL LIGHT POLES. REF. A15N-281 FOR LOCATIONS.
 - FOUNDATION & ANCHOR BOLTS BY OTHERS. REF. EAST & WEST SEGMENT DRAWING.
 - ELECTRICAL, LIGHT FIXTURE & CCTV CAMERAS BY OTHERS. REF. PMLR EAST & WEST SEGMENT DRAWINGS.



Mar 22, 2012 1:52pm
 bmarth
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NO.	DATE	BY	APPD.	REVISIONS

MDR DESIGNED	01-27-12 DATE
EAC DRAWN	01-27-12 DATE
RAH CHECKED	03-19-12 DATE
KHF APPROVED	03-23-12 DATE

TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

Mayer/Reed

TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

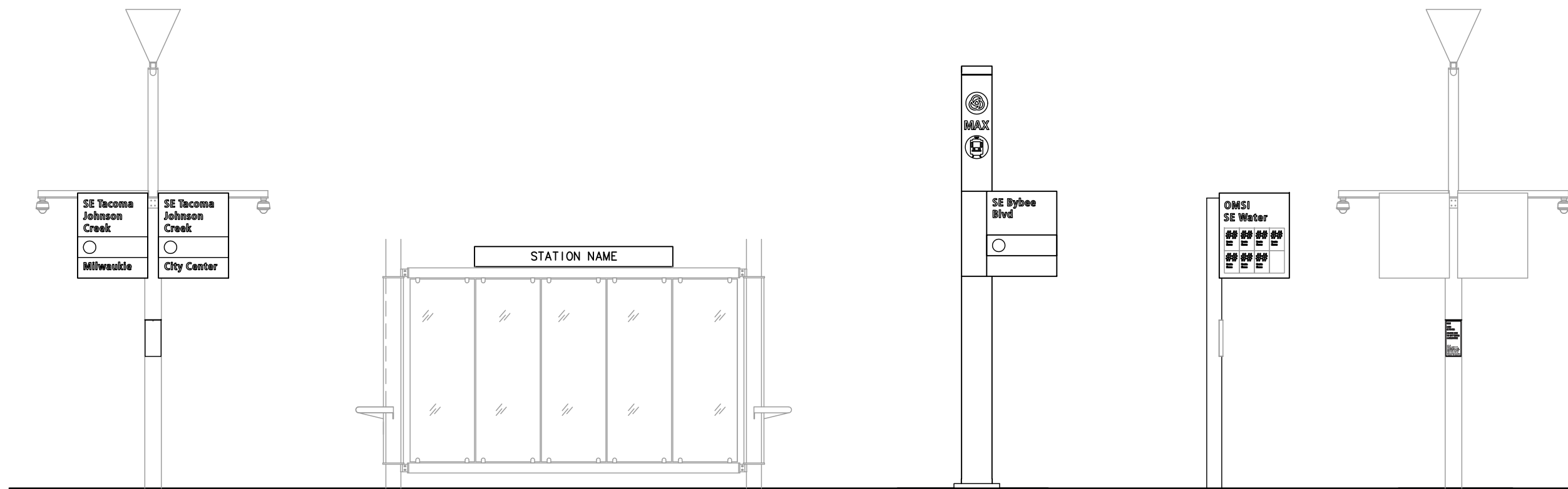
CAPITAL PROJECTS AND FACILITIES DIVISION
 710 N.E. HOLLADAY STREET
 PORTLAND, OREGON 97232

SUBMITTED:	DATE:	APPROVED:	DATE:
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PORTLAND TO MILWAUKIE LRT
AMENITIES Exhibit T 47
 LIGHT POLE - TYPE 1 & 2
 PLAN & ELEVATION

SCALE: AS NOTED	DRAWING NO.: A15S-150	CONTRACT NO.: RH100186JB	SHEET NO.:
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NOTES:
 1. REF. PMLR EAST & WEST SEGMENT DRAWINGS FOR QUANTITIES, A15E-006, A15W-003.



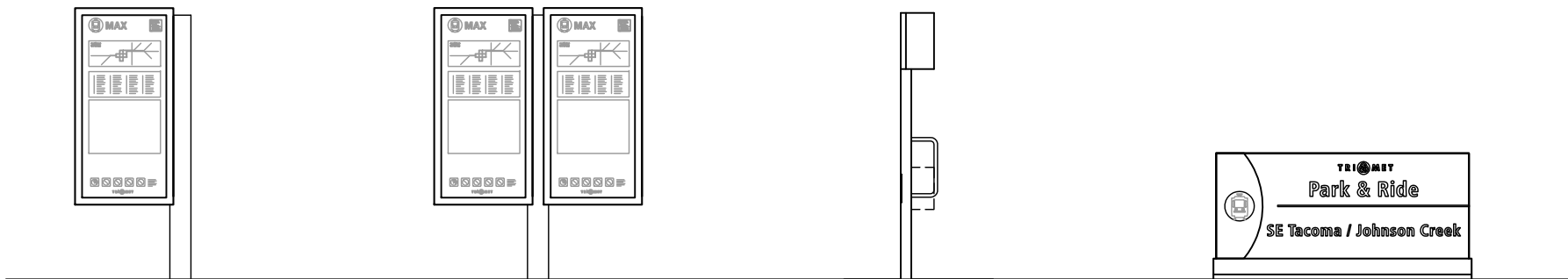
STATION ID SIGN - TYPE A1
 LIGHT POLE MOUNTED
 REF. A15N-210

STATION ID SIGN - TYPE C1
 WINDSCREEN MOUNTED
 REF. A15N-230

STATION ID PYLON SIGN - TYPE F1
 REF. A15N-260

BUS STOP SIGN - TYPE G1
 REF. A15N-270

TACTILE SIGN - TYPE H1
 REF. A15N-280



TRANSIT INFORMATION SIGN - TYPE B1
 DOUBLE SIDED
 REF. A15N-220

TRANSIT INFORMATION SIGN - TYPE B2
 SINGLE SIDED
 REF. A15N-220

FARE ZONE SIGN - TYPE D1
 REF. A15N-216

PARK & RIDE SIGN - TYPE E1
 REF. A15N-217

SIGN FAMILY



Mar 22, 2012 2:43pm

bmarth

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NO.	DATE	BY	APPD.	REVISIONS

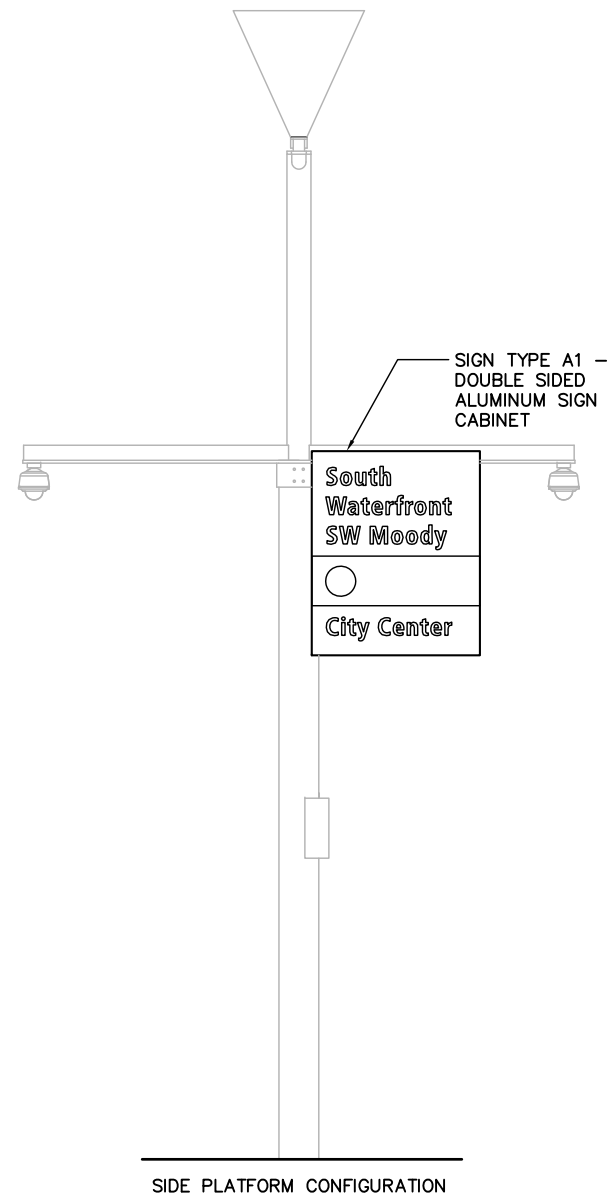
MDR DESIGNED	01-27-12 DATE
JFC DRAWN	01-27-12 DATE
DFS CHECKED	03-19-12 DATE
KHF APPROVED	03-23-12 DATE

TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON			
Mayer/Reed	TRI MET		
CAPITAL PROJECTS AND FACILITIES DIVISION 710 N.E. HOLLADAY STREET PORTLAND, OREGON 97232			
SUBMITTED:	DATE:	APPROVED:	DATE:

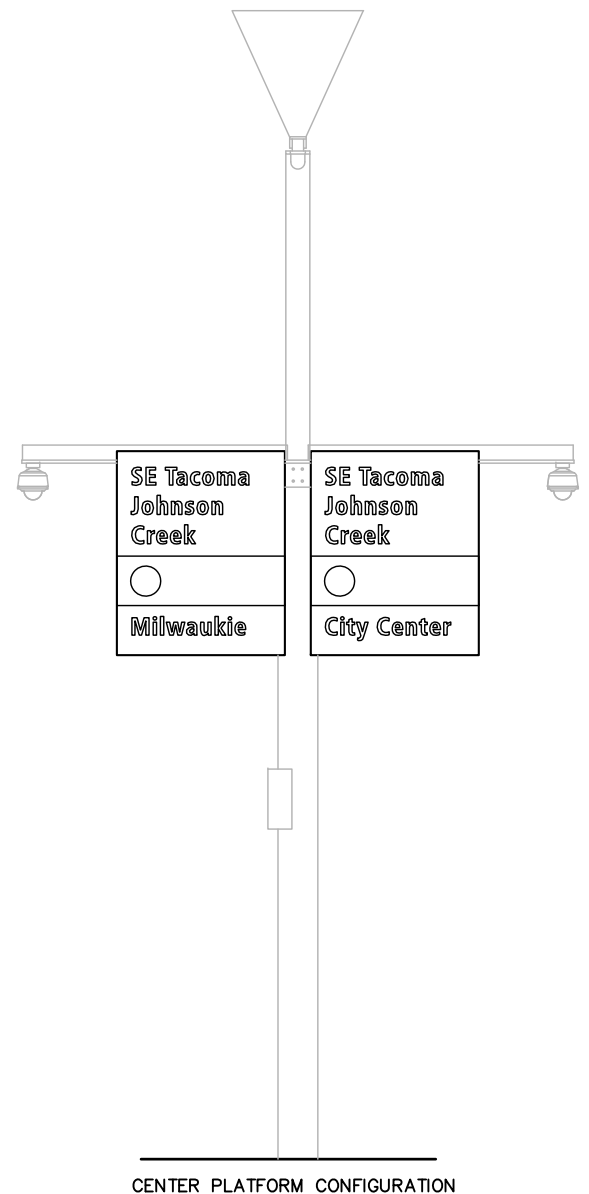
PORTLAND TO MILWAUKIE LRT AMENITIES SIGN FAMILY Exhibit T 48			
SCALE:	DRAWING NO.:	CONTRACT NO.:	SHEET NO.:
AS NOTED	A15N-200	RH100544JB	

1
2
3
4
5

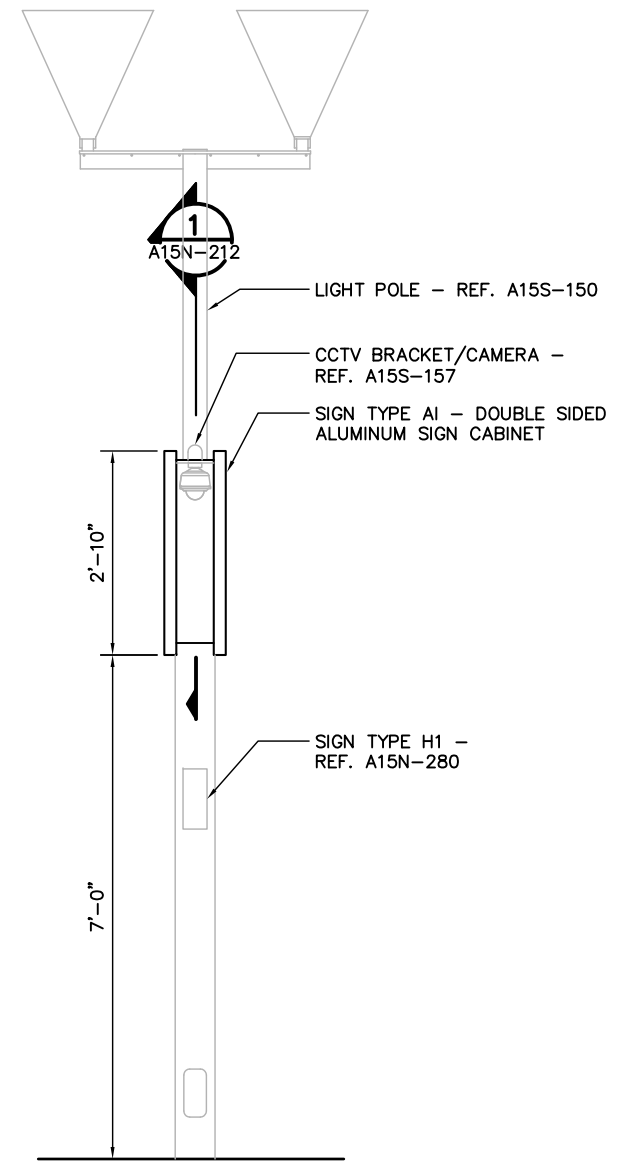
- NOTES:
- COORDINATE SIGN INSTALLATION FIT-UP WITH LIGHT POLE FABRICATION. REF. A15S-150.
 - DIGITAL ARTWORK FOR SIGN LAYOUTS PROVIDED BY OWNER.
 - ELECTRICAL TO LIGHT FIXTURE BY OTHERS. REF. PMLR EAST & WEST DRAWINGS.



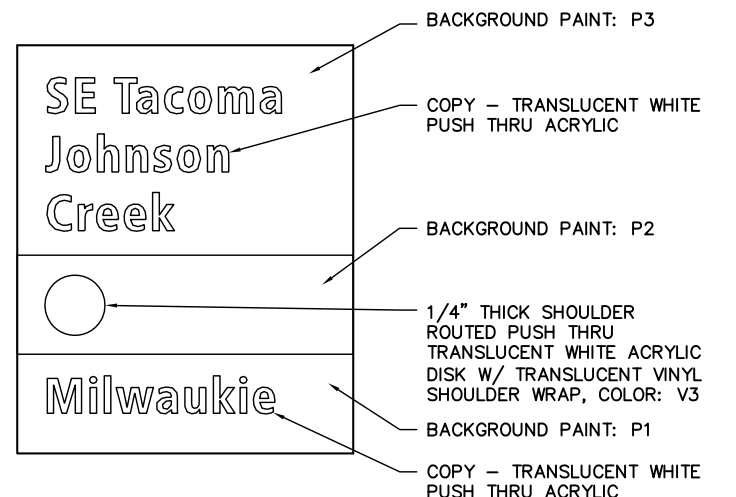
TYPE A1 - SINGLE SIGN
SCALE: 3/4" = 1'-0"



TYPE A1 - DOUBLE SIGN
SCALE: 3/4" = 1'-0"



TYPE A1 - END VIEW
SCALE: 3/4" = 1'-0"



TYPE A1 - SIGN FACE DETAIL
SCALE: 1 1/2" = 1'-0"

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NO.	DATE	BY	APPD.	REVISIONS

MDR	01-27-12
DESIGNED	DATE
JFC	01-27-12
DRAWN	DATE
DFS	03-19-12
CHECKED	DATE
KHF	03-23-12
APPROVED	DATE

TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

Mayer/Reed

TRI MET

CAPITAL PROJECTS AND FACILITIES DIVISION
710 N.E. HOLLADAY STREET
PORTLAND, OREGON 97232

SUBMITTED: DATE: APPROVED: DATE:

PORTLAND TO MILWAUKIE LRT

AMENITIES Exhibit T 49

STATION ID SIGN - TYPE A1
ELEVATION

SCALE: AS NOTED DRAWING NO.: A15N-210 CONTRACT NO.: RH100544JB SHEET NO.:

1
2
3
4
5

- NOTES:
1. DIGITAL ARTWORK FOR SIGN LAYOUTS PROVIDED BY OWNER.
 2. LAYOUT THE SAME FOR BOTH SIDES OF CABINET.
 3. REFERENCE A15S-153 AND A15S-154 POLE SCHEDULE FOR LOCATIONS.

LIGHT POLE #: 1-1, 1-4, 1-5
SIGN CABINET: POLE SIDE Z

Lincoln St
SW 3rd Ave

○

City Center

LIGHT POLE #: 2-2, 2-4, 2-5
SIGN CABINET: POLE SIDE Z

South
Waterfront
SW Moody

○

City Center

LIGHT POLE #: 3-2, 3-5, 3-6
SIGN CABINET: POLE SIDE Z

OMSI
SE Water

○

City Center

LIGHT POLE #: 4-3, 4-4, 4-6
SIGN CABINET: POLE SIDE Z

Clinton St
SE 12th Ave

○

City Center

LIGHT POLE #: 5-2, 5-3, 5-5
SIGN CABINET: POLE SIDE Z

SE 17th Ave
& Rhine St

○

City Center

LIGHT POLE #: 1-1, 1-4, 1-5
SIGN CABINET: POLE SIDE X

Lincoln St
SW 3rd Ave

○

Milwaukie

LIGHT POLE #: 2-6, 2-7, 2-9
SIGN CABINET: POLE SIDE X

South
Waterfront
SW Moody

○

Milwaukie

LIGHT POLE #: 3-7, 3-8, 3-11,
SIGN CABINET: POLE SIDE X

OMSI
SE Water

○

Milwaukie

LIGHT POLE #: 4-3, 4-4, 4-6
SIGN CABINET: POLE SIDE X

Clinton St
SE 12th Ave

○

Milwaukie

LIGHT POLE #: 5-2, 5-3, 5-5
SIGN CABINET: POLE SIDE X

SE 17th Ave
& Rhine St

○

Milwaukie

LIGHT POLE #: 6-2, 6-3, 6-5
SIGN CABINET: POLE SIDE Z

SE 17th Ave
& Holgate
Blvd

○

City Center

LIGHT POLE #: 7-1, 7-3, 7-4
SIGN CABINET: POLE SIDE Z

SE Bybee
Blvd

○

City Center

LIGHT POLE #: 8-3, 8-6, 8-7
SIGN CABINET: POLE SIDE Z

SE Tacoma
Johnson
Creek

○

City Center

LIGHT POLE #: 9-3, 9-5, 9-6
SIGN CABINET: POLE SIDE Z

Milwaukie
Main St

○

City Center

LIGHT POLE #: 10-2, 10-5, 10-6,
10-8, 10-10, 10-11
SIGN CABINET: POLE SIDE X & Z

SE Park Ave

○

City Center

LIGHT POLE #: 6-2, 6-3, 6-5
SIGN CABINET: POLE SIDE X

SE 17th Ave
& Holgate
Blvd

○

Milwaukie

LIGHT POLE #: 7-1, 7-3, 7-4
SIGN CABINET: POLE SIDE X

SE Bybee
Blvd

○

Milwaukie

LIGHT POLE #: 8-3, 8-6, 8-7
SIGN CABINET: POLE SIDE X

SE Tacoma
Johnson
Creek

○

Milwaukie

LIGHT POLE #: 9-3, 9-5, 9-6
SIGN CABINET: POLE SIDE X

Milwaukie
Main St

○

Milwaukie

TYPE A1 LAYOUTS
SCALE: 3/4" = 1'-0"



I:\2 VC PROJECTS\TMA\OUT\2012-03-23 100%DWGS\A15N-211.dwg

NO.	DATE	BY	APPD.	REVISIONS

MDR DESIGNED	01-27-12 DATE
JFC DRAWN	01-27-12 DATE
DFS CHECKED	03-19-12 DATE
KHF APPROVED	03-23-12 DATE

TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

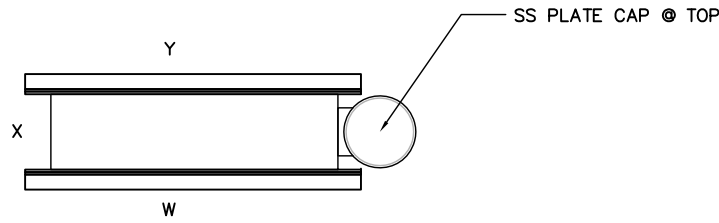
Mayer/Reed

TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

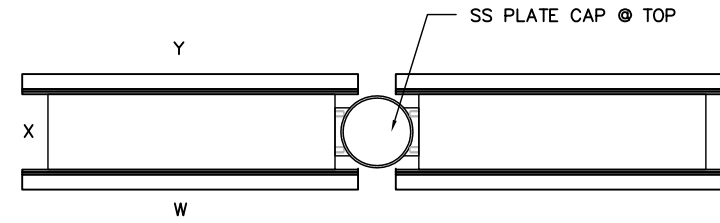
CAPITAL PROJECTS AND FACILITIES DIVISION
 710 N.E. HOLLADAY STREET
 PORTLAND, OREGON 97232

PORTLAND TO MILWAUKIE LRT
AMENITIES Exhibit T 50
 STATION ID SIGN - TYPE A1
 LAYOUTS

SUBMITTED:	DATE:	APPROVED:	DATE:	SCALE: AS NOTED	DRAWING NO.: A15N-211	CONTRACT NO.: RH100544JB	SHEET NO.:
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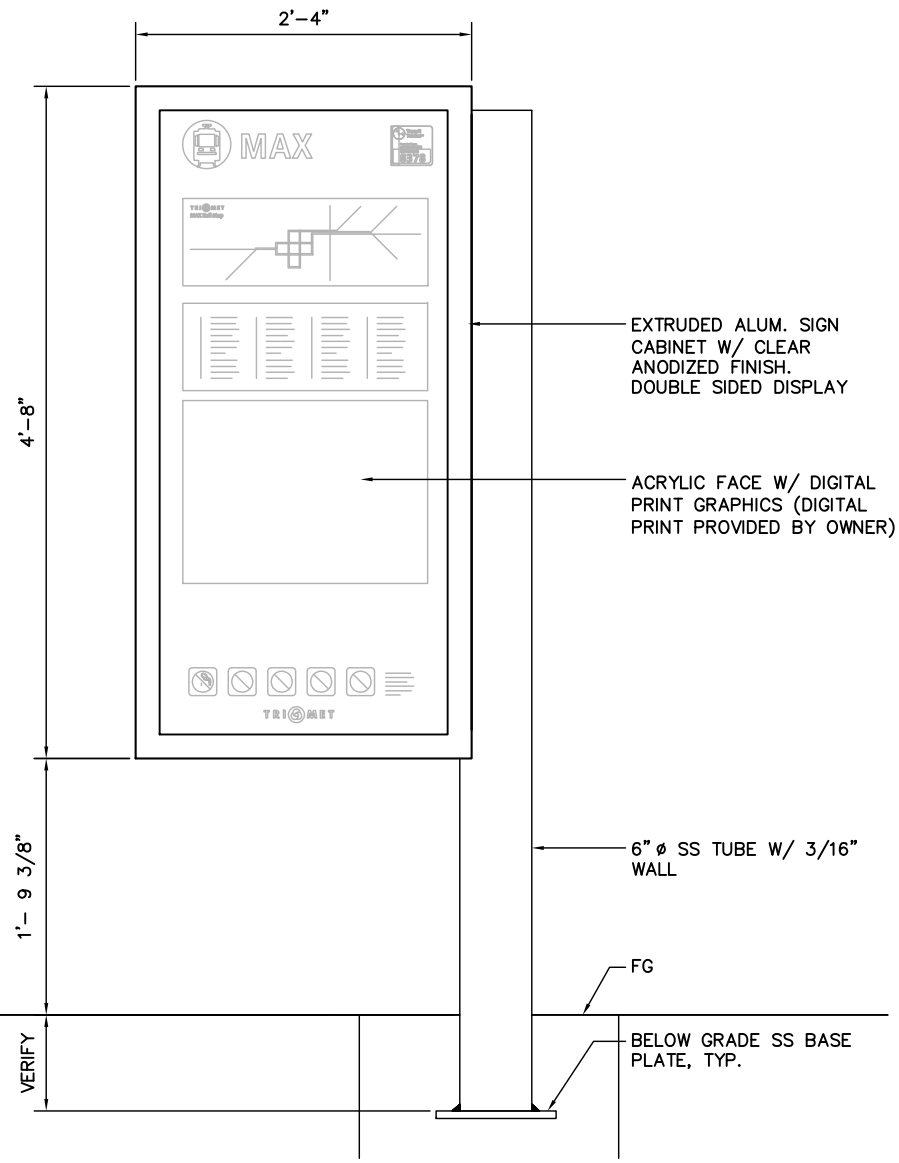
TYPE B1 - PLAN
SCALE: 1 1/2" = 1'-0"



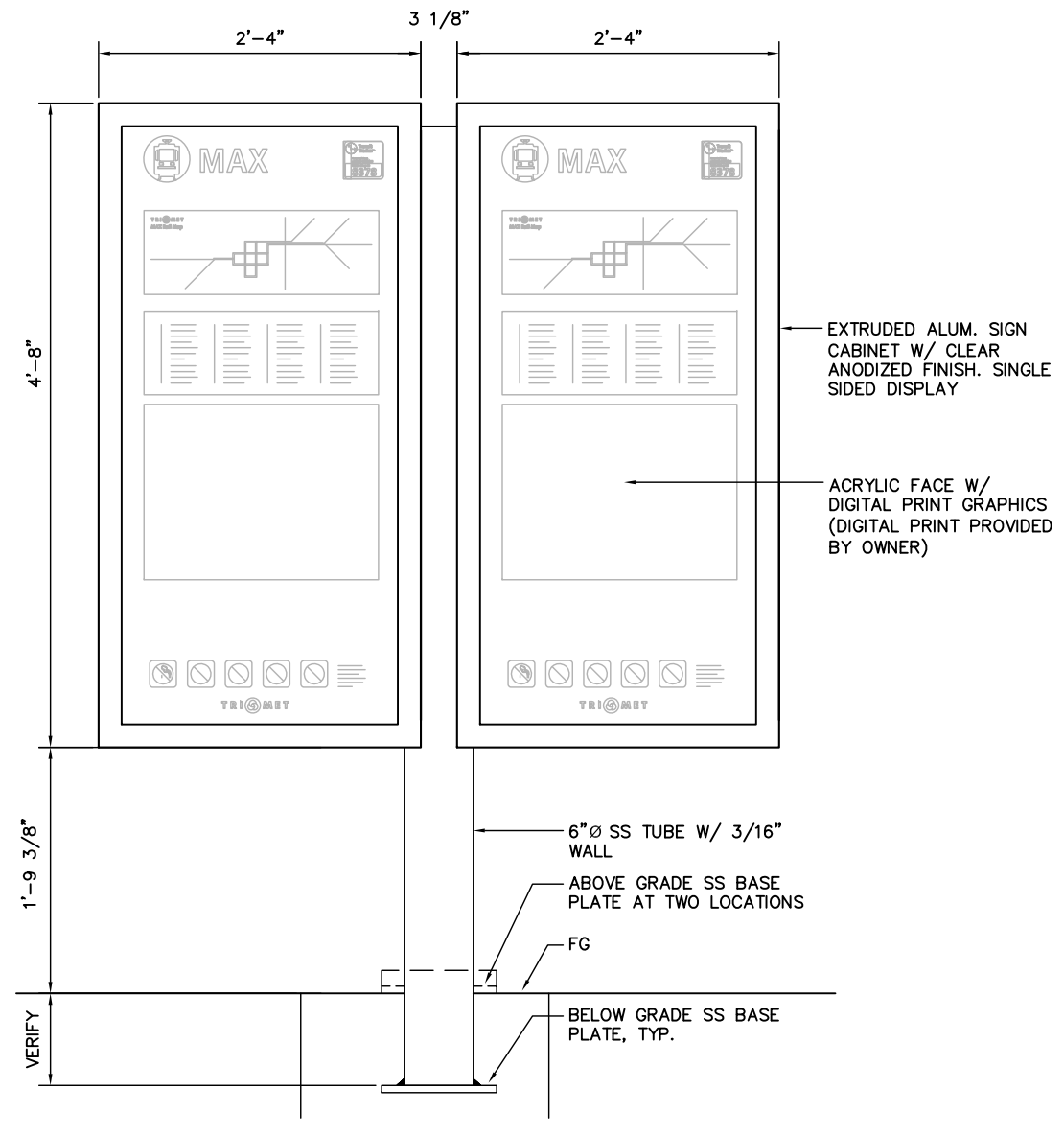
TYPE B2 - PLAN
SCALE: 1 1/2" = 1'-0"



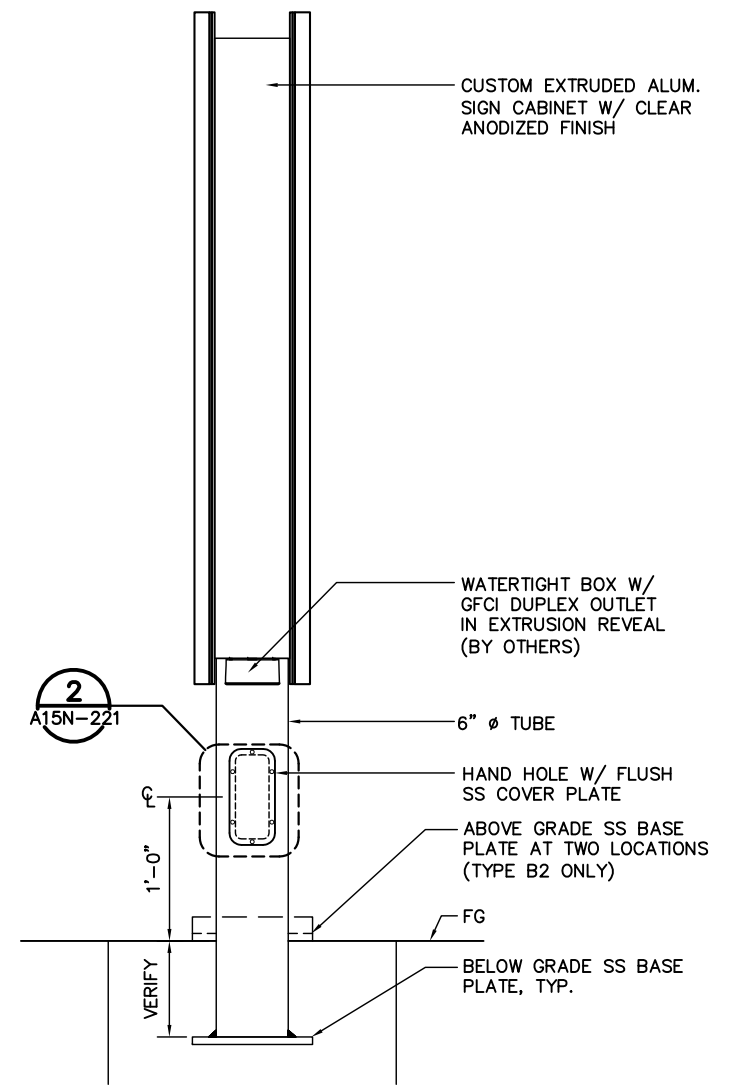
- NOTES:
1. REF. PMLR EAST & WEST SEGMENT ARCHITECTURAL PLANS FOR LOCATIONS.
 2. ABOVE GRADE BASE PLATE REQUIRED AT BYBEE STATION, REF. A15E-443.
 3. FOUNDATION & ANCHOR BOLTS BY OTHERS. REF. PMLR EAST & WEST SEGMENT DRAWINGS.
 4. ELECTRICAL TO LIGHT FIXTURE BY OTHERS. REF. PMLR EAST & WEST SEGMENT ELECTRICAL DRAWINGS.



TYPE B1 - ELEVATION W
SCALE: 1 1/2" = 1'-0"



TYPE B2 - ELEVATION W
SCALE: 1 1/2" = 1'-0"



TYPE B1 & B2 - ELEVATION X
SCALE: 1 1/2" = 1'-0"



Mar 22, 2012 2:54pm
jcorlison
14: \2 VC PROJECTS\TMA\001\2012-05-23 100X\DWGS\A15N-220.dwg

NO.	DATE	BY	APPD.	REVISIONS

MDR DESIGNED	01-27-12 DATE
JFC DRAWN	01-27-12 DATE
DFS CHECKED	03-19-12 DATE
KHF APPROVED	03-23-12 DATE

TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

Mayer/Reed

TRI MET

CAPITAL PROJECTS AND FACILITIES DIVISION
710 N.E. HOLLADAY STREET
PORTLAND, OREGON 97232

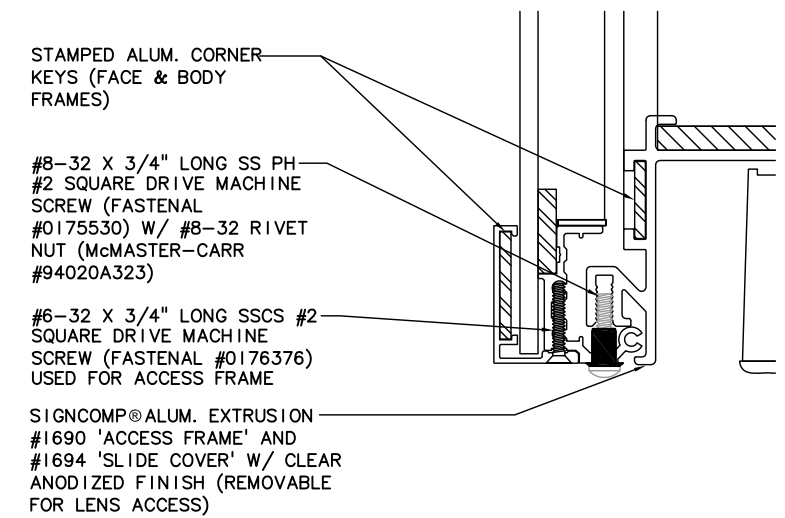
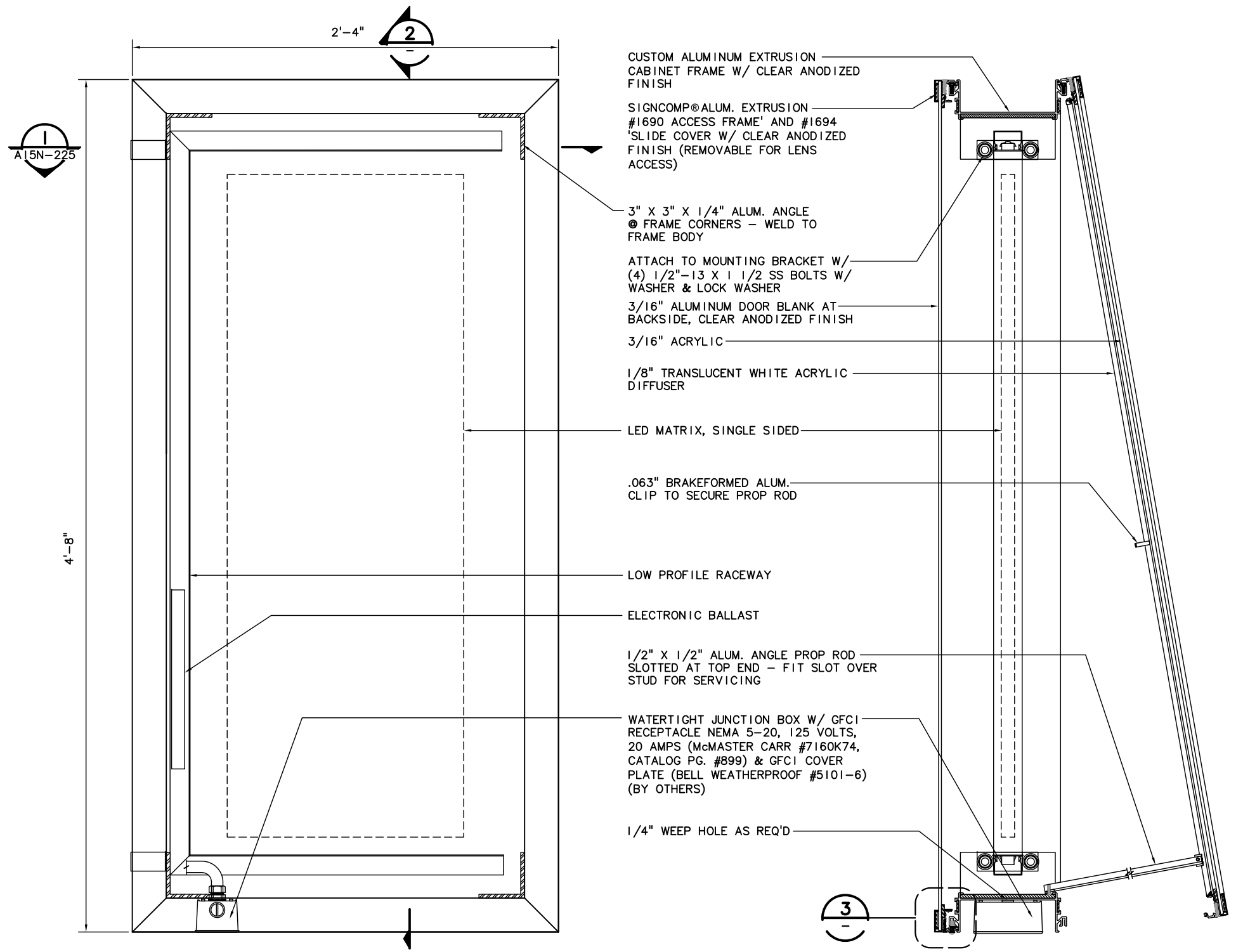
PORTLAND TO MILWAUKIE LRT AMENITIES

Exhibit T 51

TRANSIT INFORMATION SIGN - TYPE B1, B2
PLAN & ELEVATION

SCALE: AS NOTED	DRAWING NO.: A15N-220	CONTRACT NO.: RH100544JB	SHEET NO.:
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- NOTES:
1. DOOR HINGE ALLOWS FOR 45° MAX. OPEN ANGLE
 2. ALUM. ANGLE PROP ROD - ONE PER CABINET FACE, ON COLUMN SIDE



TYPE B2 - SINGLE SIDED CABINET DETAIL
SCALE: 3" = 1'-0"

TYPE B2 - SECTION
SCALE: 3" = 1'-0"

TYPE B2 - ACCESS FRAME DETAIL
SCALE: 1'-0" = 1'-0"

Mar 21, 2012 9:42pm
 bmarth
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NO.	DATE	BY	APPD.	REVISIONS

MDR DESIGNED	01-27-12 DATE
JFC DRAWN	01-27-12 DATE
DFS CHECKED	03-19-12 DATE
KHF APPROVED	03-23-12 DATE

TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

Mayer/Reed

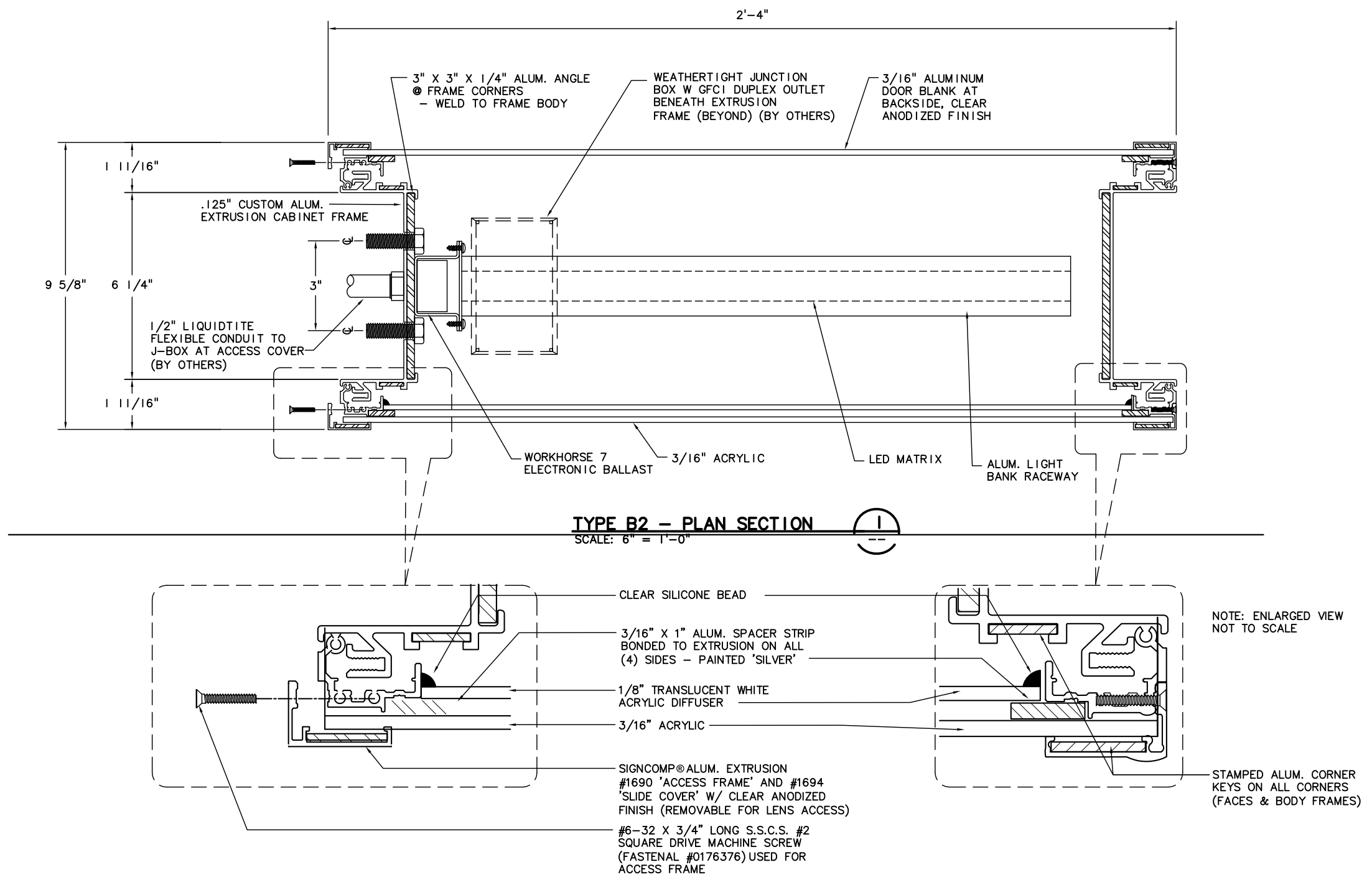
TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

CAPITAL PROJECTS AND FACILITIES DIVISION
 710 N.E. HOLLADAY STREET
 PORTLAND, OREGON 97232

PORTLAND TO MILWAUKIE LRT AMENITIES
 Exhibit T 52
 TRANSIT INFORMATION SIGN - TYPE B2
 DETAILS

SCALE: AS NOTED	DRAWING NO.: A15N-224	CONTRACT NO.: RH100544JB	SHEET NO.:
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NOTES:
 1. FACE FRAMES ARE CUT 1/16" LARGER THAN CABINETS FOR PROPER FIT.



Mar 21, 2012 9:43pm
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 100% DWGS \A15N-225.dwg

NO.	DATE	BY	APPD.	REVISIONS

MDR DESIGNED	01-27-12 DATE
JFC DRAWN	01-27-12 DATE
DFS CHECKED	03-19-12 DATE
KHF APPROVED	03-23-12 DATE

TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

Mayer/Reed

TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

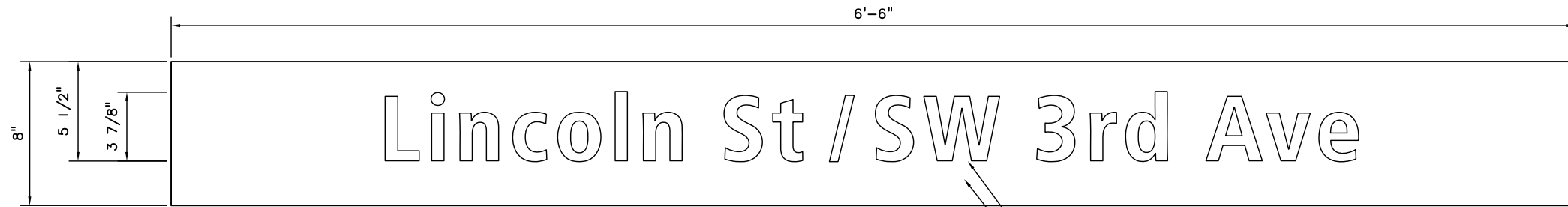
CAPITAL PROJECTS AND FACILITIES DIVISION
 710 N.E. HOLLADAY STREET
 PORTLAND, OREGON 97232

SUBMITTED:	DATE:	APPROVED:	DATE:
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PORTLAND TO MILWAUKIE LRT
AMENITIES **Exhibit T 53**
 TRANSIT INFORMATION SIGN - TYPE B2
 DETAILS

SCALE: AS NOTED	DRAWING NO.: A15N-225	CONTRACT NO.: RH100544JB	SHEET NO.:
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NOTES:
 1. DIGITAL ARTWORK FOR SIGN LAYOUTS PROVIDED BY OWNER.



PORCELAIN COPY COLOR: PE-2
 PORCELAIN BACKGROUND COLOR: PE-3

TYPE C1 - TYPICAL SIGN LAYOUT
 SCALE: 3" = 1'-0"



Lincoln St / SW 3rd Ave

South Waterfront / SW Moody

OMSI / SE Water

Clinton St / SE 12th Ave

SE 17th Ave & Rhine St

SE 17th Ave & Holgate Blvd

SE Bybee Blvd

SE Tacoma / Johnson Creek

Milwaukie / Main St

SE Park Ave

TYPE C1 - SIGN LAYOUTS
 SCALE: 1" = 1'-0"



Mar 21, 2012 9:47pm

bmarth

I:\2 VC PROJECTS\TMA\OUT\2012-03-23 100%\DWGS\A15N-231.dwg

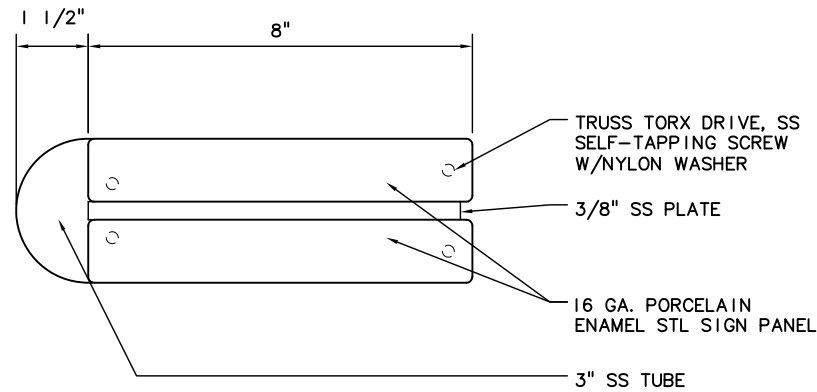
NO.	DATE	BY	APPD.	REVISIONS

MDR DESIGNED	01-27-12 DATE
JFC DRAWN	01-27-12 DATE
DFS CHECKED	03-19-12 DATE
KHF APPROVED	03-23-12 DATE

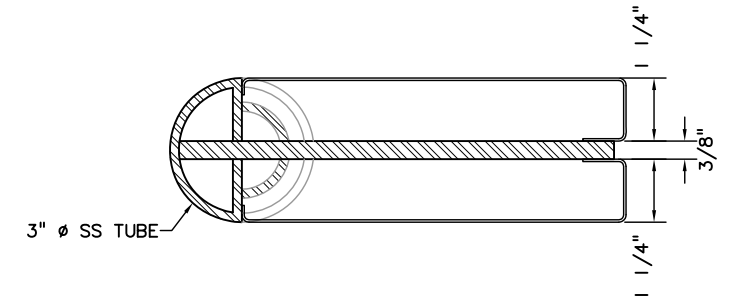
Mayer/Reed	
CAPITAL PROJECTS AND FACILITIES DIVISION 710 N.E. HOLLADAY STREET PORTLAND, OREGON 97232	
SUBMITTED:	DATE:
APPROVED:	DATE:

PORTLAND TO MILWAUKIE LRT AMENITIES Exhibit T 54 STATION ID SIGN - TYPE C1 LAYOUTS			
SCALE:	DRAWING NO.:	CONTRACT NO.:	SHEET NO.:
AS NOTED	A15N-231	RH100544JB	

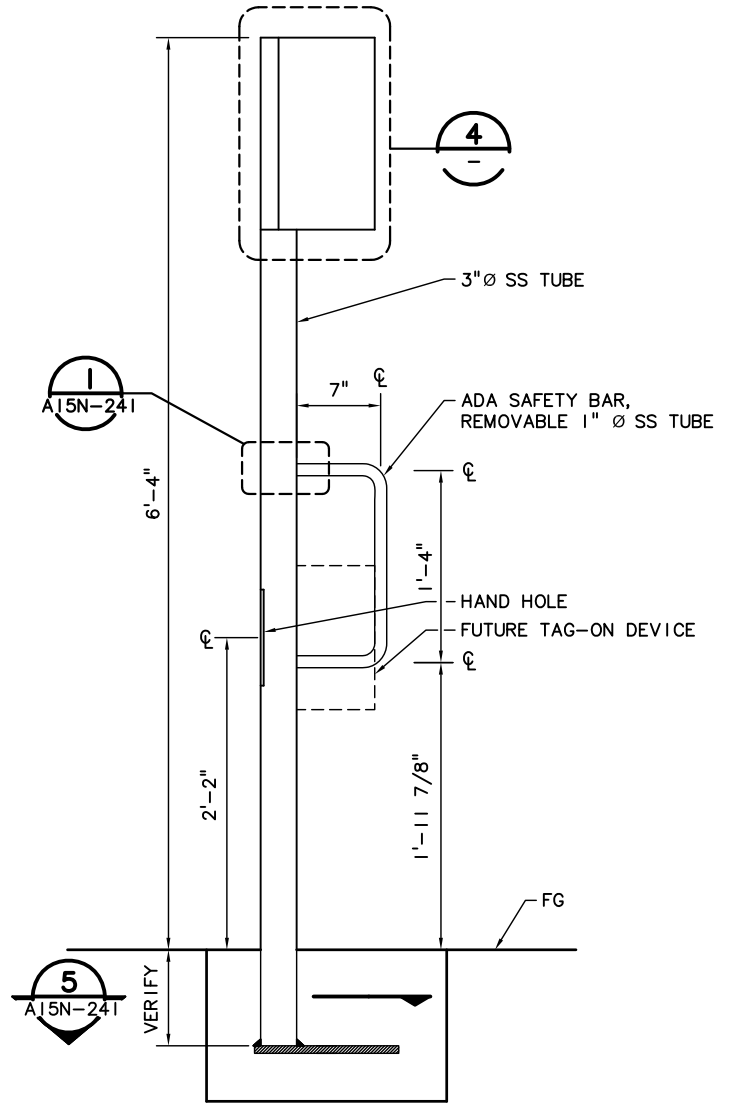
1
2
3
4
5



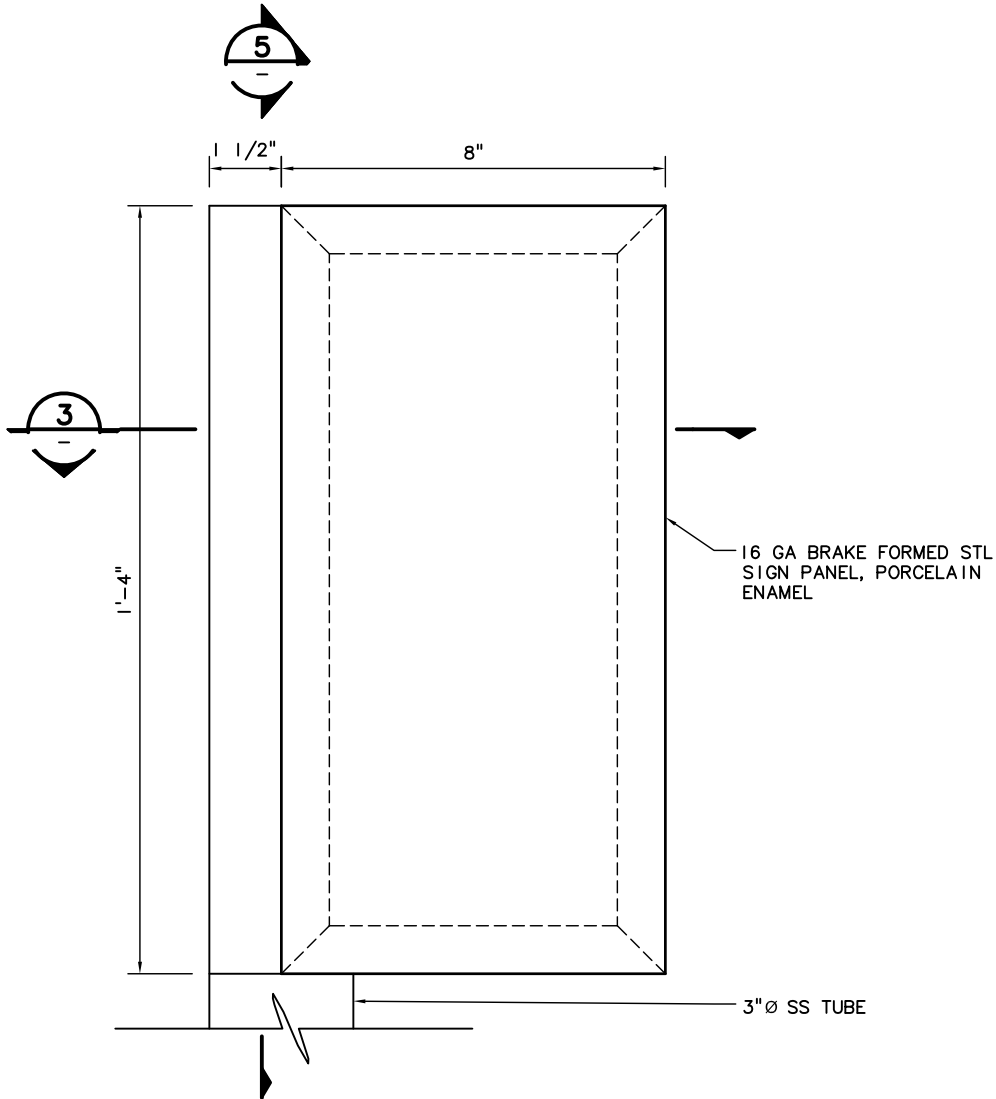
TYPE D1 - PLAN
SCALE: 6" = 1'-0" 2



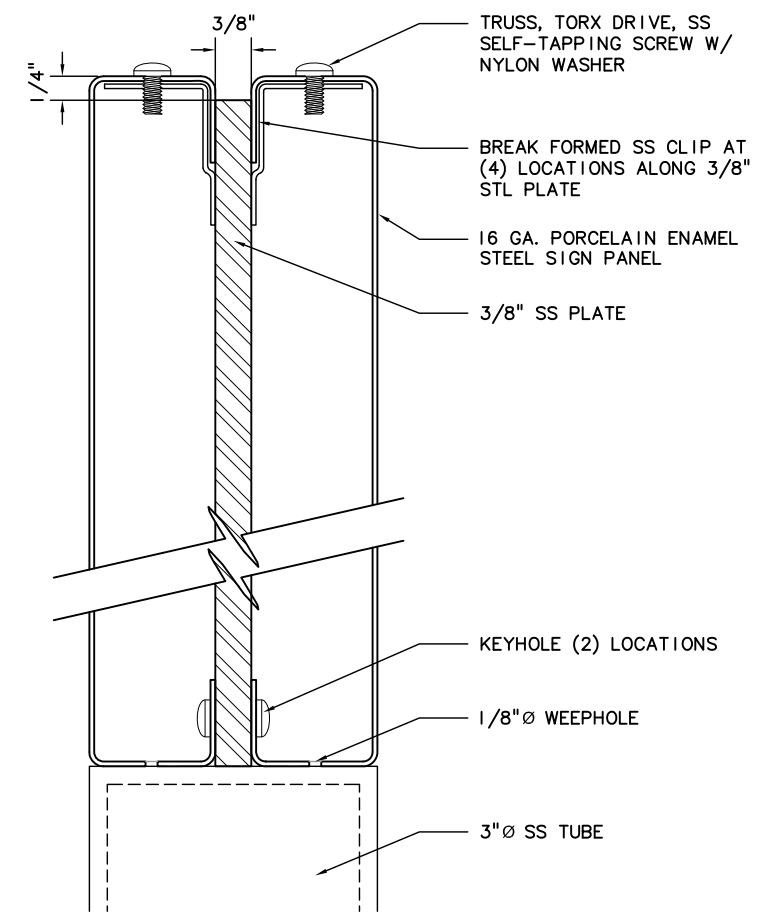
TYPE D1 - PLAN SECTION
SCALE: 6" = 1'-0" 3



TYPE D1 - SIGN POST - ELEVATION
SCALE: 1 1/2" = 1'-0" 1



TYPE D1 - SIGN DETAIL
SCALE: 6" = 1'-0" 4



TYPE D1 - SECTION
SCALE: 1'-0" = 1'-0" 5

- NOTES:
- DIGITAL ARTWORK FOR SIGN LAYOUT PROVIDED BY OWNER.
 - REFERENCE PMLR EAST & WEST ARCHITECTURAL PLANS FOR LOCATIONS.

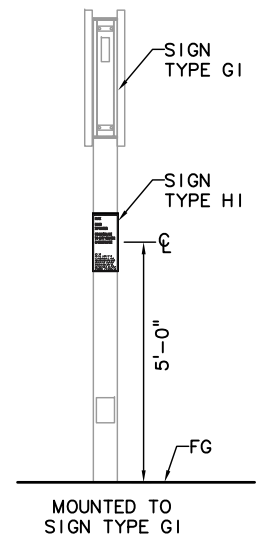
Mar 21, 2012 9:48pm
bmarth
100%DWGS\A15N-240.dwg

NO.	DATE	BY	APPD.	REVISIONS

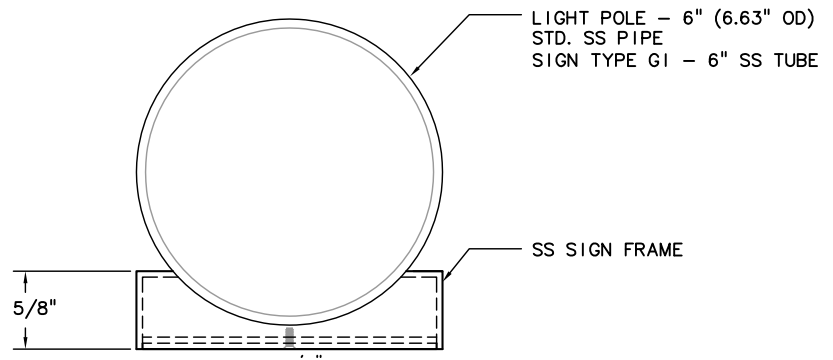
MDR DESIGNED	01-27-12 DATE
JFC DRAWN	01-27-12 DATE
DFS CHECKED	03-19-12 DATE
KHF APPROVED	03-23-12 DATE

TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON			
CAPITAL PROJECTS AND FACILITIES DIVISION 710 N.E. HOLLADAY STREET PORTLAND, OREGON 97232			
SUBMITTED:	DATE:	APPROVED:	DATE:

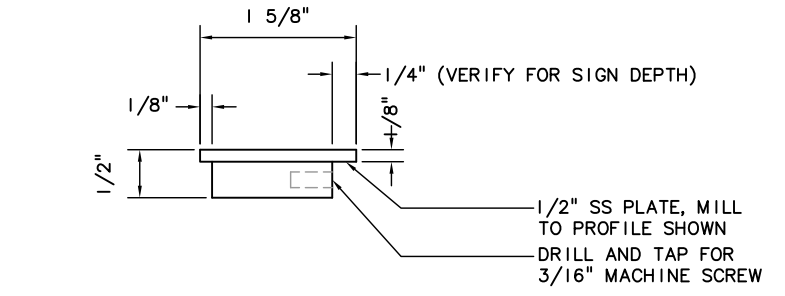
PORTLAND TO MILWAUKIE LRT AMENITIES Exhibit T 55			
FARE ZONE SIGN - TYPE D1 PLAN, ELEVATION & DETAILS			
SCALE:	DRAWING NO.:	CONTRACT NO.:	SHEET NO.:
AS NOTED	A15N-240	RH100544JB	



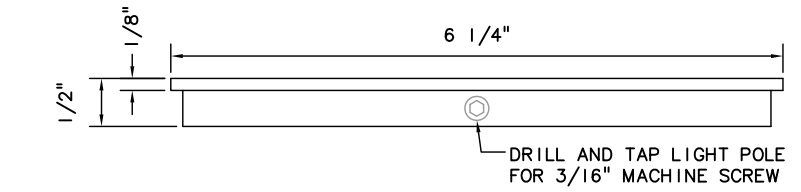
MOUNTED TO SIGN TYPE G1



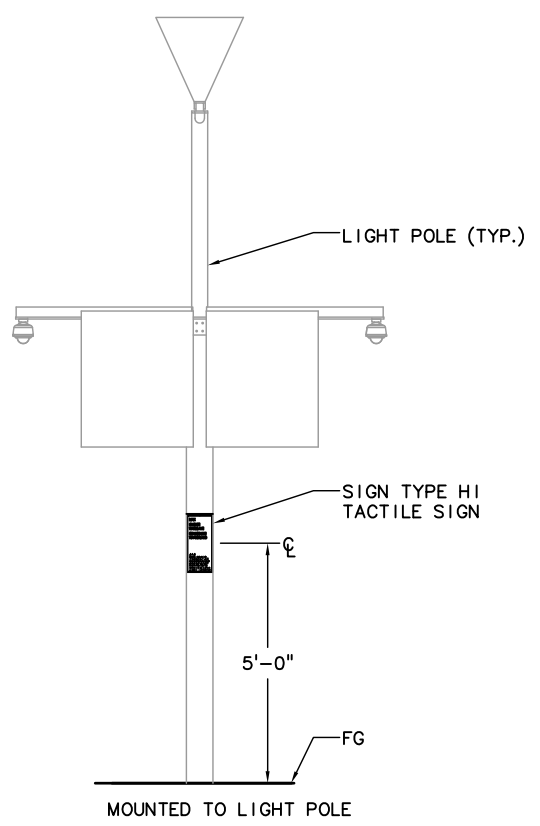
TYPE HI - PLAN
SCALE: 6" = 1'-0"



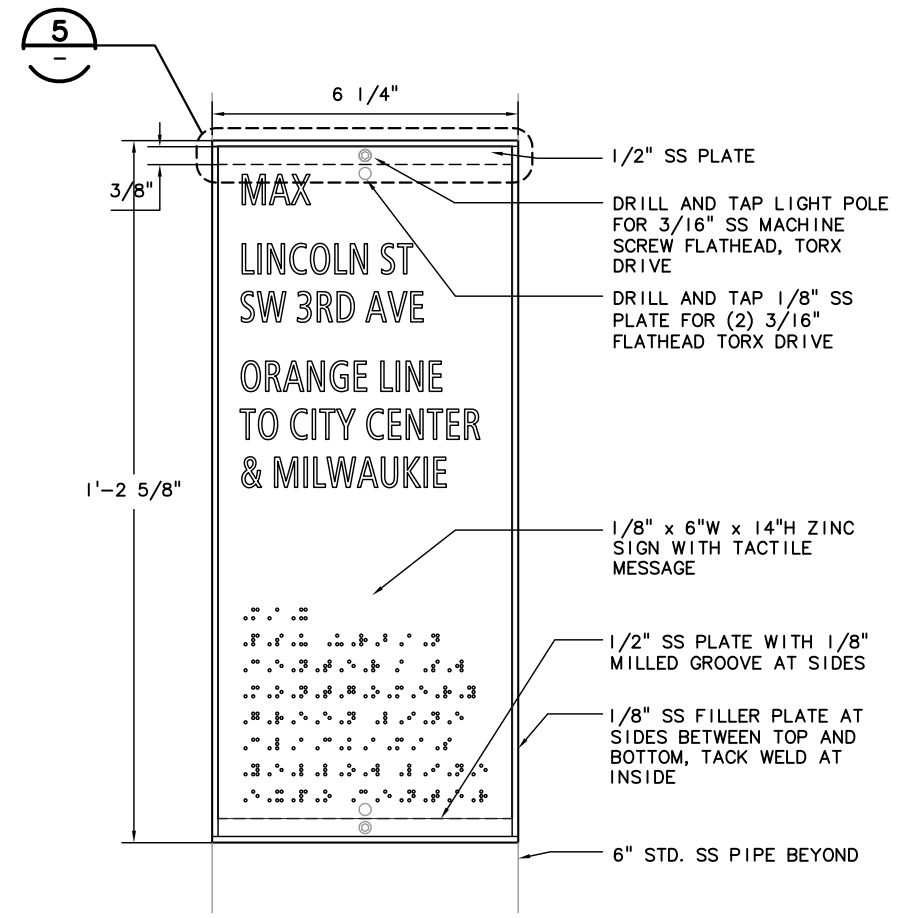
TOP/BOTTOM FRAME - DETAIL SIDE VIEW (4)
SCALE: 1'-0" = 1'-0"



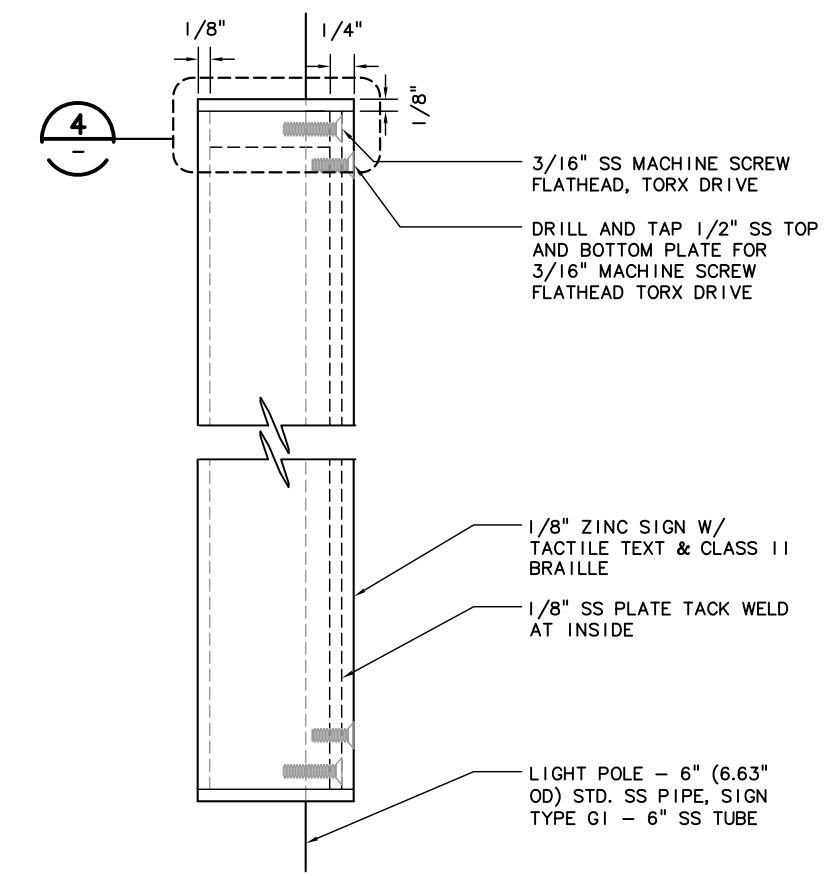
TOP/BOTTOM FRAME - DETAIL FRONT VIEW (5)
SCALE: 1'-0" = 1'-0"



TYPE HI - ELEVATION
SCALE: 1/2" = 1'-0"



TYPE HI - FRONT ELEVATION (3)
SCALE: 6" = 1'-0"



TYPE HI - SIDE ELEVATION (6)
SCALE: 1'-0" = 1'-0"

Mar 21, 2012 9:59pm
 bmarth
 100% DWG: A:15N-280.dwg

NO.	DATE	BY	APPD.	REVISIONS

MDR DESIGNED	01-27-12 DATE
JFC DRAWN	01-27-12 DATE
DFS CHECKED	03-19-12 DATE
KHF APPROVED	03-23-12 DATE

TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

Mayer/Reed

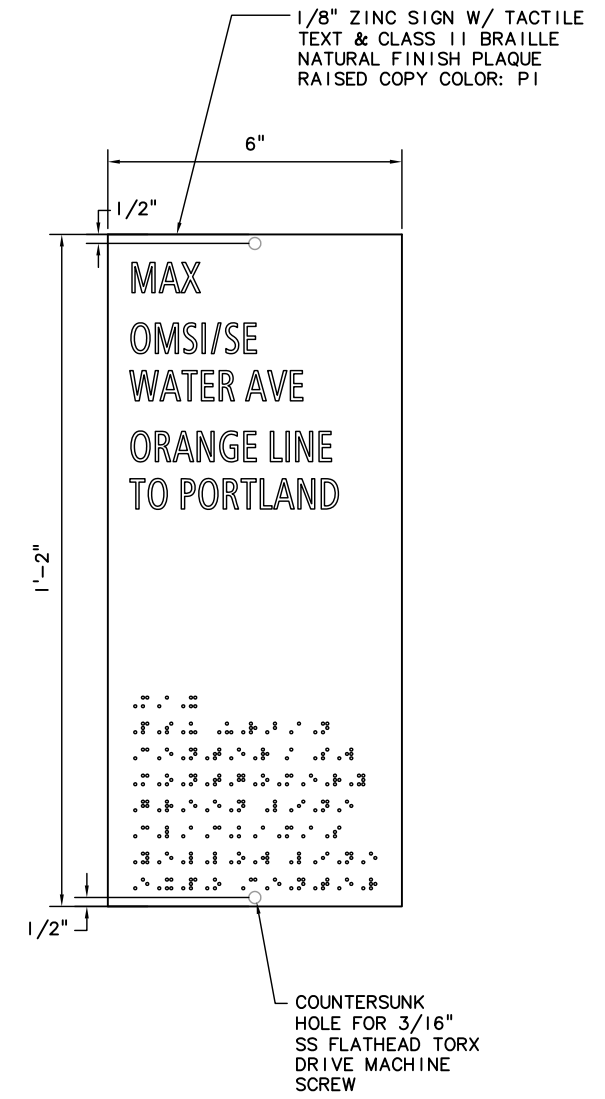
TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

CAPITAL PROJECTS AND FACILITIES DIVISION
 710 N.E. HOLLADAY STREET
 PORTLAND, OREGON 97232

PORTLAND TO MILWAUKIE LRT
AMENITIES Exhibit T 56
 TACTILE SIGN - TYPE HI
 PLAN, ELEVATION & DETAILS

SCALE: AS NOTED	DRAWING NO.: A15N-280	CONTRACT NO.: RH100544JB	SHEET NO.:
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- NOTES:
1. DIGITAL ARTWORK FOR SIGN LAYOUT PROVIDED BY OWNER.
 2. FABRICATOR IS RESPONSIBLE FOR BRAILLE TEXT.
 3. REFERENCE A15S-153 AND A15S-154 POLE SCHEDULE FOR LIGHT POLE LOCATIONS.
 4. REFERENCE:
A15E-400
A15E-401
A15W-227
A15W-228
PLAN VIEW FOR SIGN TYPE G1 LOCATIONS



<p>MAX LINCOLN ST SW 3RD AVE ORANGE LINE TO CITY CENTER & MILWAUKIE</p> <p>LIGHT POLE 1-1 SIDE Y</p> <p>LIGHT POLE 1-5 SIDE W</p>	<p>MAX SOUTH WATERFRONT SW MOODY ORANGE LINE TO CITY CENTER & MILWAUKIE</p> <p>LIGHT POLE 2-1, 2-10 SIDE Y</p> <p>LIGHT POLE 2-5, 2-6 SIDE W</p>	<p>MAX OMSI SE WATER ORANGE LINE TO CITY CENTER & MILWAUKIE</p> <p>LIGHT POLE 3-1, 3-7 SIDE Y</p> <p>LIGHT POLE 3-6, 3-12 SIDE W</p>	<p>MAX CLINTON SE 12TH AVE ORANGE LINE TO CITY CENTER & MILWAUKIE</p> <p>LIGHT POLE 4-3 SIDE Y</p> <p>LIGHT POLE 4-6 SIDE W</p>	<p>MAX SE 17TH AVE & RHINE ST ORANGE LINE TO CITY CENTER & MILWAUKIE</p> <p>LIGHT POLE 5-2 SIDE Y</p> <p>LIGHT POLE 5-5 SIDE W</p>	<p>BUS SOUTH WATERFRONT SW MOODY BUS ROUTES: ##, ##, ##, ##</p> <p>SIGN TYPE G1: NORTHBOUND</p>	<p>BUS OMSI SE WATER BUS ROUTES: ##, ##, ##, ##</p> <p>SIGN TYPE G1: NORTHBOUND</p>
<p>MAX SE 17TH AVE & HOLGATE BLVD ORANGE LINE TO CITY CENTER & MILWAUKIE</p> <p>LIGHT POLE 6-2 SIDE Y</p> <p>LIGHT POLE 6-5 SIDE W</p>	<p>MAX SE BYBEE BLVD ORANGE LINE TO CITY CENTER & MILWAUKIE</p> <p>LIGHT POLE 7-1 SIDE Y</p> <p>LIGHT POLE 7-4 SIDE W</p>	<p>MAX SE TACOMA JOHNSON CREEK ORANGE LINE TO CITY CENTER & MILWAUKIE</p> <p>LIGHT POLE 8-3 SIDE Y</p> <p>LIGHT POLE 8-7 SIDE W</p>	<p>MAX MILWAUKIE MAIN ST ORANGE LINE TO CITY CENTER & MILWAUKIE</p> <p>LIGHT POLE 9-3 SIDE Y</p> <p>LIGHT POLE 9-6 SIDE W</p>	<p>MAX SE PARK AVE ORANGE LINE TO CITY CENTER & MILWAUKIE</p> <p>LIGHT POLE 10-2, 10-8 SIDE Y</p> <p>LIGHT POLE 10-6, 10-10 SIDE W</p>	<p>BUS SOUTH WATERFRONT SW MOODY BUS ROUTES: ##, ##, ##, ##</p> <p>SIGN TYPE G1: SOUTHBOUND</p>	<p>BUS OMSI SE WATER BUS ROUTES: ##, ##, ##, ##</p> <p>SIGN TYPE G1: SOUTHBOUND</p>

TYPE HI - LAYOUTS
SCALE: 3" = 1'-0"

TYPE HI - ENLARGED LAYOUT 
SCALE: 6" = 1'-0"

Mar 21, 2012 10:00pm

bmarth

I:\2 VC PROJECTS\TMA\GUT\2012-03-23 100%DWG\A15N-281.dwg

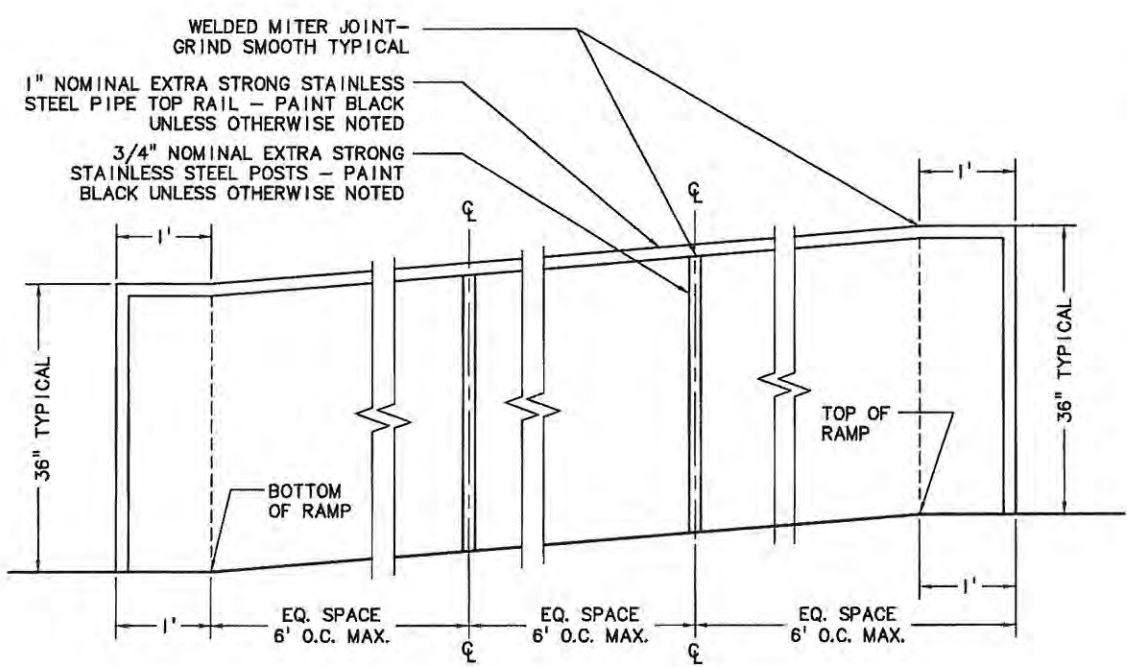
				<p>MDR 01-27-12 DESIGNED DATE</p> <p>JFC 01-27-12 DRAWN DATE</p> <p>DFS 03-19-12 CHECKED DATE</p> <p>KHF 03-23-12 APPROVED DATE</p>	<p>TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON</p> <p>Mayer/Reed</p> <p>TRI MET</p> <p>CAPITAL PROJECTS AND FACILITIES DIVISION 710 N.E. HOLLADAY STREET PORTLAND, OREGON 97232</p>		<p>PORTLAND TO MILWAUKIE LRT AMENITIES Exhibit T 57 TACTILE SIGN - TYPE HI LAYOUTS</p>					
NO.	DATE	BY	APPD.	REVISIONS	SUBMITTED:	DATE:	APPROVED:	DATE:	SCALE:	DRAWING NO.:	CONTRACT NO.:	SHEET NO.:
		CHK.							AS NOTED	A15N-281	RH100544JB	

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MAY 07 2012

CITY OF MILWAUKIE
PLANNING DEPARTMENT

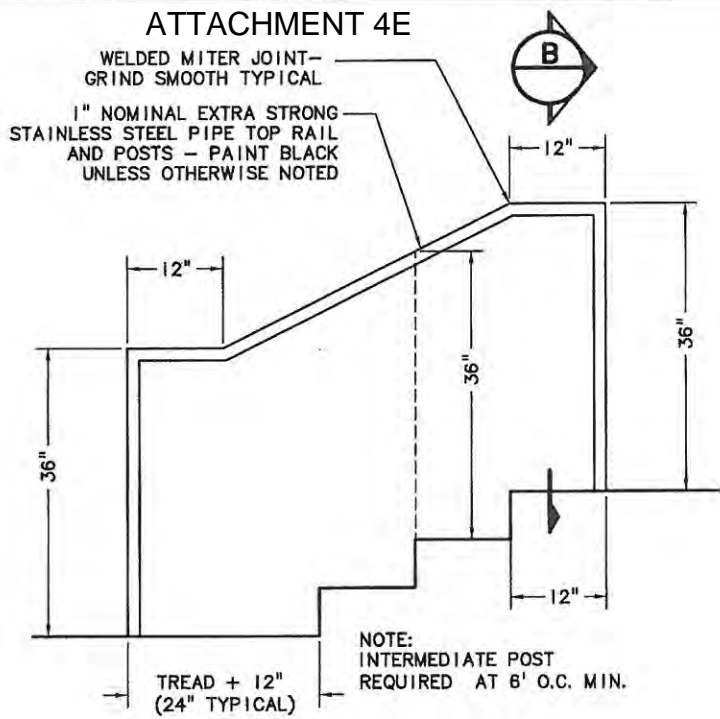
54" MIN. TO 88" MAX
CLEAR BETWEEN HANDRAILS

PROVIDE INTERMEDIATE
HANDRAILS AT STAIRS
GREATER THAN 88" WIDE.
HANDRAILS TO BE
EQUALLY SPACED.



**RAILING - TYPE 12A
HANDRAIL AT RAMP**

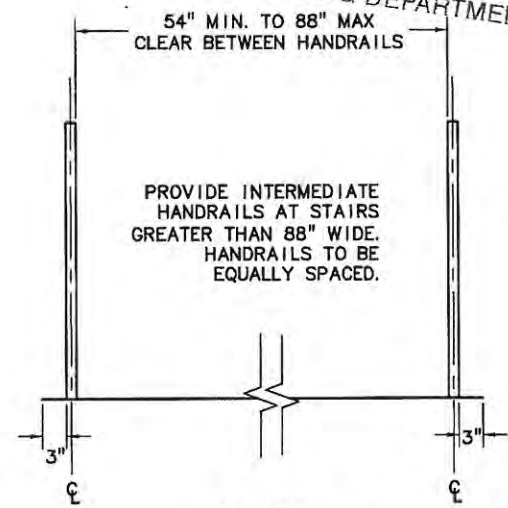
SCALE: 1" = 1'-0"



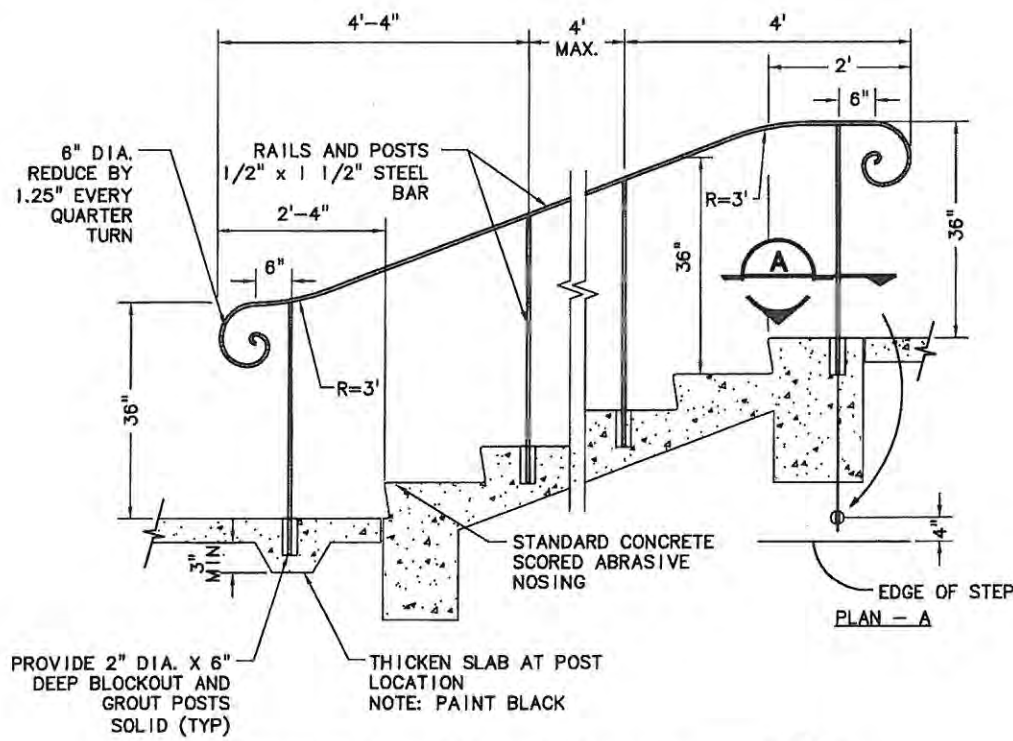
A ELEVATION

**RAILING - TYPE 12A
P.C.C. STEPS WITH HANDRAIL**

SCALE: 1" = 1'-0"

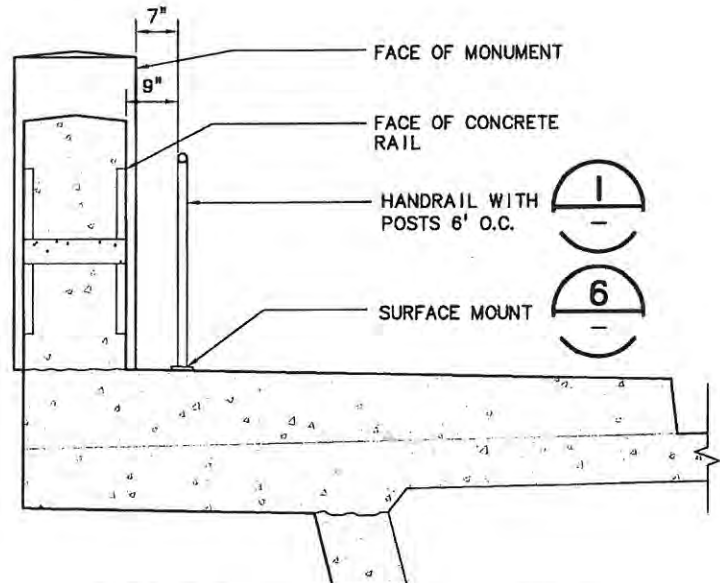


B SECTION



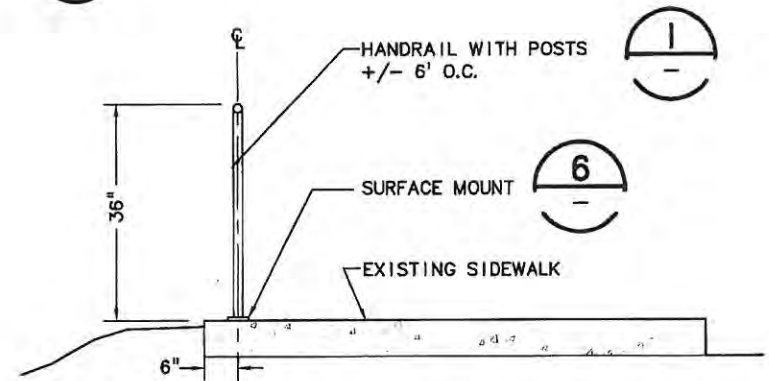
RAILING - CORTI PROPERTY

SCALE: 3/4" = 1'-0"



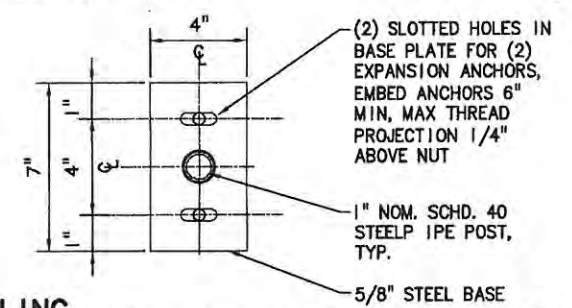
**RAILING
HANDRAIL AT BYBEE DECK**

SCALE: 3/4" = 1'-0"



**RAILING
HANDRAIL AT EXISTING SIDEWALK**

SCALE: 3/4" = 1'-0"



**RAILING
SURFACE MOUNT AT PCC SIDEWALK**

SCALE: 3" = 1'-0"

CHECK PRINT
4-23-12

JMS	DESIGNED	06-01-11	DATE
SPT	DRAWN	06-01-11	DATE
RAH	CHECKED	04-17-12	DATE
	APPROVED	5-14-12	DATE

REGISTERED
82
CAROL MAYER-REED
LANDSCAPE ARCHITECT
OREGON

TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON

Mayer/Reed

DAVID EVANS
AND ASSOCIATES INC.

TRI MET

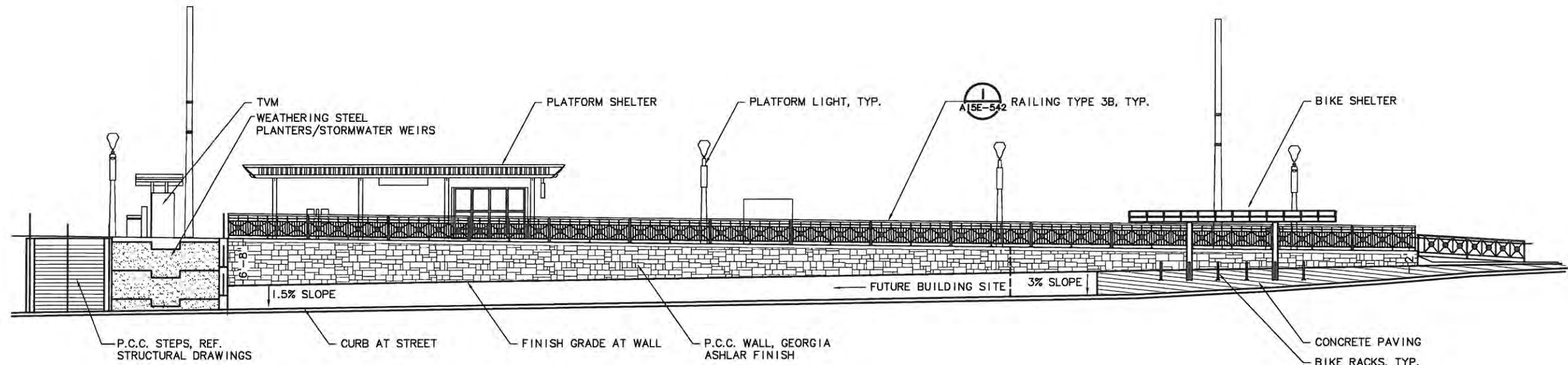
CAPITAL PROJECTS
DIVISION
710 NE HOLLADAY STREET
PORTLAND, OREGON 97232

PORTLAND - MILWAUKIE LRT
EAST SEGMENT
ARCHITECTURAL
DETAILS - RAILINGS

NO.	DATE	BY	CHK.	APPD.	ISSUED FOR CONSTRUCTION	REVISIONS	APPROVED	DATE	SUBMITTED:	DATE:	APPROVED:	DATE:	SCALE:	DRAWING NO.:	CONTRACT NO.:	SHEET NO.:
5-14-12	RAH	CMR			ISSUED FOR CONSTRUCTION					5-14-12		5-14-12		VARIES	A15E-549	RH100544-JB

R:\15-CD DUMP\15E-EASTWAR ROOM\05-Architectural\A15E-549.dwg, 4/23/2012 1:25:41 PM, mbridej

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 MAY 10 2012
 CITY OF MILWAUKIE
 PLANNING DEPARTMENT



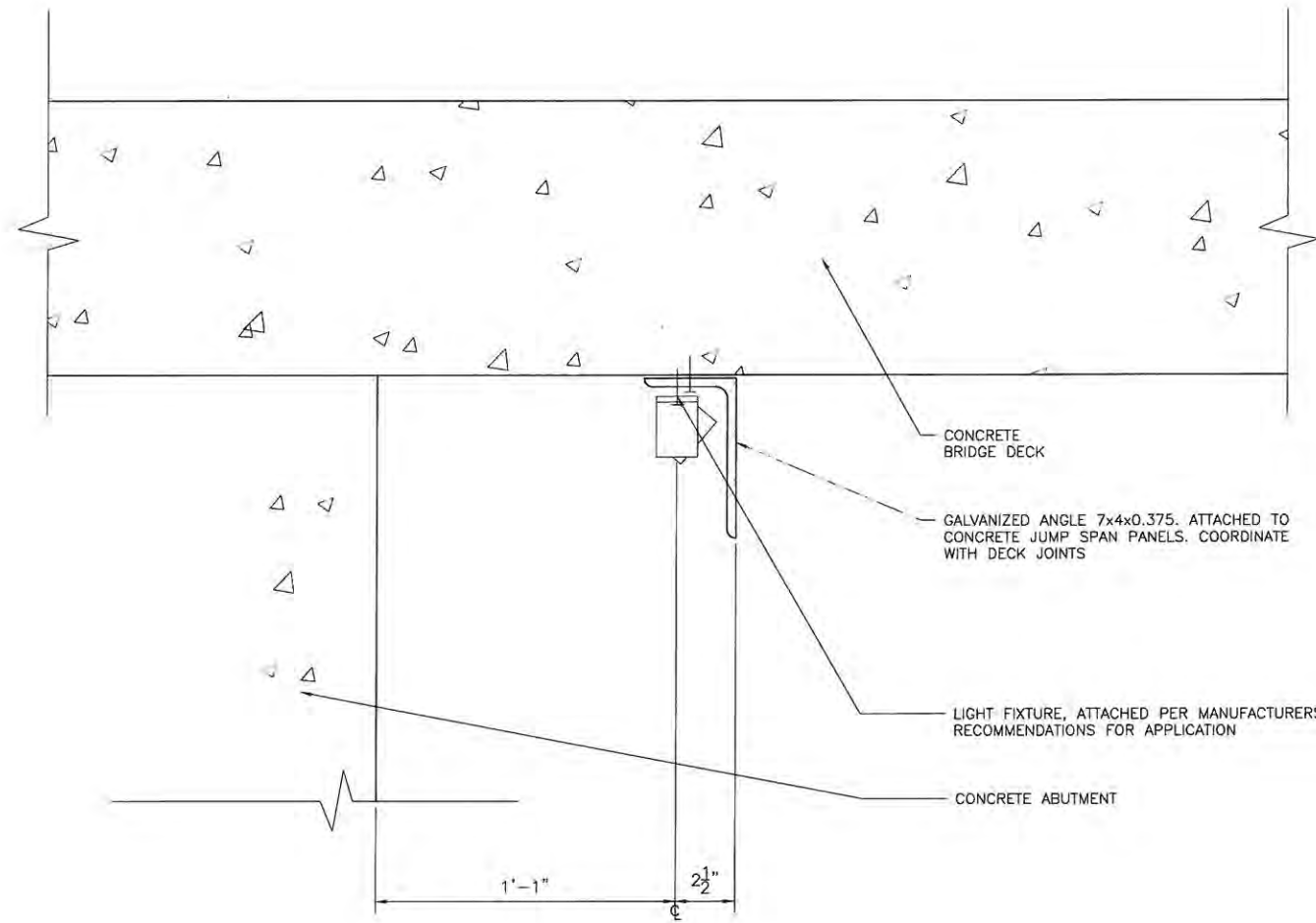
WALL - EAST ELEVATION
 SCALE: 1/8" = 1'-0"



				RAH DESIGNED 09-12-11 DATE	PRELIMINARY	TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON		PORTLAND - MILWAUKIE LRT EAST SEGMENT ARCHITECTURAL ELEVATION - MILWAUKIE PLATFORM EAST ELEVATION				
				JC DRAWN 06-01-11 DATE		Mayer/Reed	DE DAVID EVANS AND ASSOCIATES INC.	CAPITAL PROJECTS AND FACILITIES DIVISION 710 N.E. HOLLADAY STREET PORTLAND, OREGON 97232				
				JMS CHECKED 04-17-12 DATE				TRI MET				
				APPROVED 5-14-12 DATE								
NO.	DATE	BY	CHK	APPD.	REVISIONS	ISSUED FOR CONSTRUCTION			SCALE:	DRAWING NO.:	CONTRACT NO.:	SHEET NO.:
									AS SHOWN	WALL ELEV	RH100544JB	

ATTACHMENT 4G

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MAY 16 2012
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PLANNING DEPARTMENT



SHIELD AT KELLOGG JUMP SPAN 1
SCALE: 3" = 1'-0"

P:\10_ipbs\1030.01_Portland_Milwaukie_Light_Reil\Cad\Sheets\600_Platform_Details\A15E-613.dwg May 16, 2012 - 3:37 PM meredith hendricks
Plot Date: 5/16/2012 3:48 PM_meredith hendricks

		MM DESIGNED 05-01-11 DATE	TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON		CAPITAL PROJECTS AND FACILITIES DIVISION 710 N.E. HOLLADAY STREET PORTLAND, OREGON 97232		PORTLAND TO MILWAUKIE LRT							
		MH DRAWN 05-20-11 DATE					EAST SEGMENT							
		CHECKED DATE	TRI MET			ARCHITECTURAL								
		APPROVED DATE				KELLOGG BRIDGE JUMP SPAN								
			SUBMITTED:	DATE:	05-14-12	APPROVED:	DATE:	05-14-12	SCALE:	VARIES	DRAWING NO.:	CONTRACT NO.:	RH100544JB	SHEET NO.: