

King County Metro Transit Bus Stop Expansion Project
Northbound Columbia St and Alaskan Way (Stop 1558) - 61 Columbia St
Northbound Alaskan Way and S Jackson St (New Stop) - 304 Alaskan Way S/74 S Jackson St
Southbound Alaskan Way and S Jackson St (New Stop) - 401 Alaskan Way S
Jerry Roberson, (206) 263-0776
Application: December 1, 2020

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Project Description

King County Metro seeks Pioneer Square Preservation Board approval for the installation of three new RapidRide Stations on Alaskan Way.

Background - New Transit Routing

- Prior to Alaskan Way Viaduct Demolition, Metro routes serving West Seattle and Southwest King County traveled along the Viaduct and used the Columbia and Seneca Street ramps to connect to the Seattle CBD.
- With the completion of the Viaduct Demolition, Alaskan Way Reconstruction, and Columbia St 2-Way Project, these routes now use SR 99, the Alaskan Way surface street, and Columbia St for both ingress and egress of the Seattle CBD.
- In 2021, Waterfront Seattle will add transit-only lanes from S Dearborn St to Columbia St to improve transit speed and reliability.

New RapidRide Stations on Alaskan Way

- Being able to run on Alaskan Way and Columbia St allows Metro to better serve people who live, work, and visit Pioneer Square and Downtown.
- Temporary bus stops are currently provided at Columbia St, but current construction of Waterfront Seattle doesn't allow for temporary stops at S Jackson St.
- In 2021, permanent RapidRide stations will be constructed at Columbia St and S Jackson St.
 - These will serve RapidRide C and H Lines and routes 21, 37, 55, 56, 57, 113, 121, 122, 123, 125
- In Fall 2021, the existing Route 120 will be upgraded to the RapidRide H Line.

New RapidRide Kit of Parts

- Metro's new RapidRide "kit of parts" is at 100% design.
 - Kit of Parts includes: shelter, tech pylon, bench, and lean rail
- The new kit of parts is designed to be more rider-friendly: more transparent surfaces, higher-quality materials, and flexible configuration.
- RapidRide brand will be consistent across King County
 - Important for rider's ease of understanding regardless of where they are.
- RapidRide kit of parts flexibility
 - Shelters come in small/medium/large lengths and narrow/wide roofs
 - Windscreens on sides and back can be added or removed based on site constraints

- Stations have a typical layout, but elements can be moved around based on site constraints.
- Cladding colors are applied to station furnishings as a final installation element.

RapidRide Stations Description

- The locations of the three new RapidRide stations and the civil work to support them (e.g., foundations, conduit) have already been approved by the Office of the Waterfront. The design for Waterfront Seattle has already been approved by the Pioneer Square Preservation Board. This application pertains only to the above-ground elements of the stations.
- Each RapidRide station will include the following elements:
 - RapidRide shelter (2 at northbound Columbia, 1 at northbound Jackson, 2 at southbound Jackson)
 - Each shelter is cantilevered and installed in a concrete foundation.
 - Each shelter consists of a steel frame, a portion of which is covered in aluminum cladding, rear and side windscreens made of clear glass, steel roof frame, and frosted glass roof panels.
 - Each shelter includes light strips on the front sign band and around the map case.
 - Each shelter includes a map case and applied graphics indicating the stop location, RapidRide line letters, and regulatory information.
 - RapidRide tech pylon
 - Each tech pylon consists of a steel frame covered in aluminum cladding, two real-time information system (RTIS) displays, an ORCA card reader, backlit “RapidRide” logo, a small down light for visibility, and internal electronics.
 - Each tech pylon includes applied graphics indicating RapidRide route information, RapidRide line letters, and regulatory/accessibility information.
 - Signage: one route information sign at the head of the stop and one with area information at the rear of the stop
 - Standard 35-gallon trash receptacle
 - Standard small electrical cabinet
- Area lighting (pedestrian-scale) will be provided by Waterfront Seattle. Metro will not be installing additional lighting beyond what’s provided by the shelter and tech pylon.
- The RapidRide station elements will be installed in the June 2021 and March 2022. Timeframe is dependent on Waterfront Seattle construction, Metro kit of parts availability, and contractor selection.

Architectural Review Committee (ARC) Decision – Cladding Color

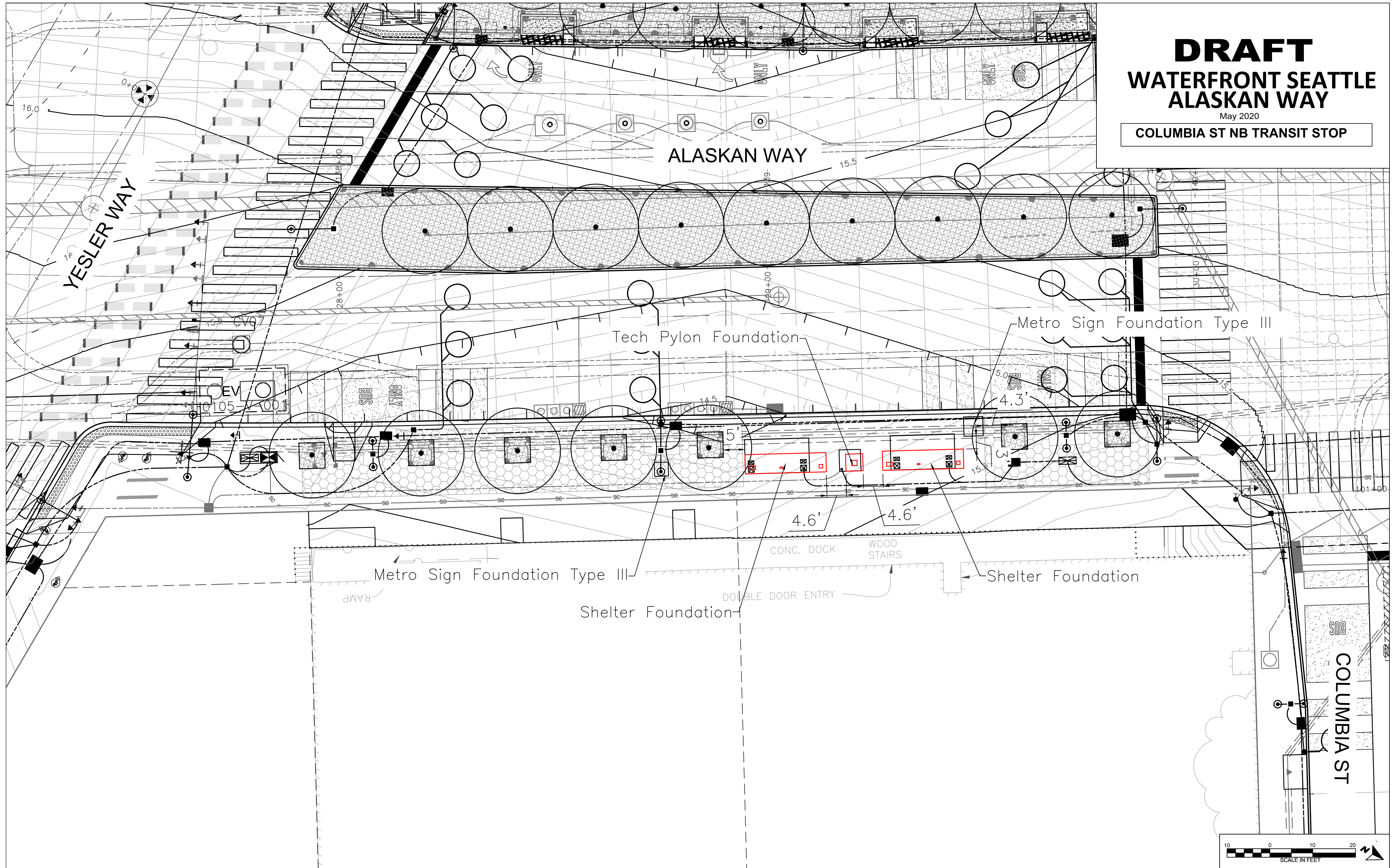
- Metro is seeking approval to use its standard “RapidRide Red” color for the cladding on the shelter and tech pylon.
 - Bus rider focus groups identified the red color as distinctive to the brand, and understood that it meant they could show up at the station and knew a bus would arrive shortly.
 - A consistent color scheme helps riders identify RapidRide stations across the entire county.

- The portion of the historic district where the new stations will be built is almost entirely new. There will be new roadways, sidewalks, plazas, bike paths, and landscaping, so the new RapidRide kit of parts will be compatible even clad in red.
 - The PSPB has allowed use of other bright, non-neutral colors in the district. Example: northeast corner of 1st and Jackson – building trim is bright blue and railing is pink.
- Light gray is presented as alternative, but not preferred, cladding option. The cladding would be the same color as the painted steel part of the frame.
 - This light gray is an inferior option to the RapidRide red because extensive use of the light gray instead of red takes away consistent, branded visibility of important transit destinations for the public.
 - Transit riders will be approaching and looking for these RapidRide stations from all directions. The extensive light gray in place of the red is unhelpful for a rider looking for a RapidRide station.
 - While this option shows one area of RapidRide Red on the top of the tech pylon, this signage won't be easily visible from all points of view/approach for a prospective rider.

DRAFT WATERFRONT SEATTLE ALASKAN WAY

May 2020

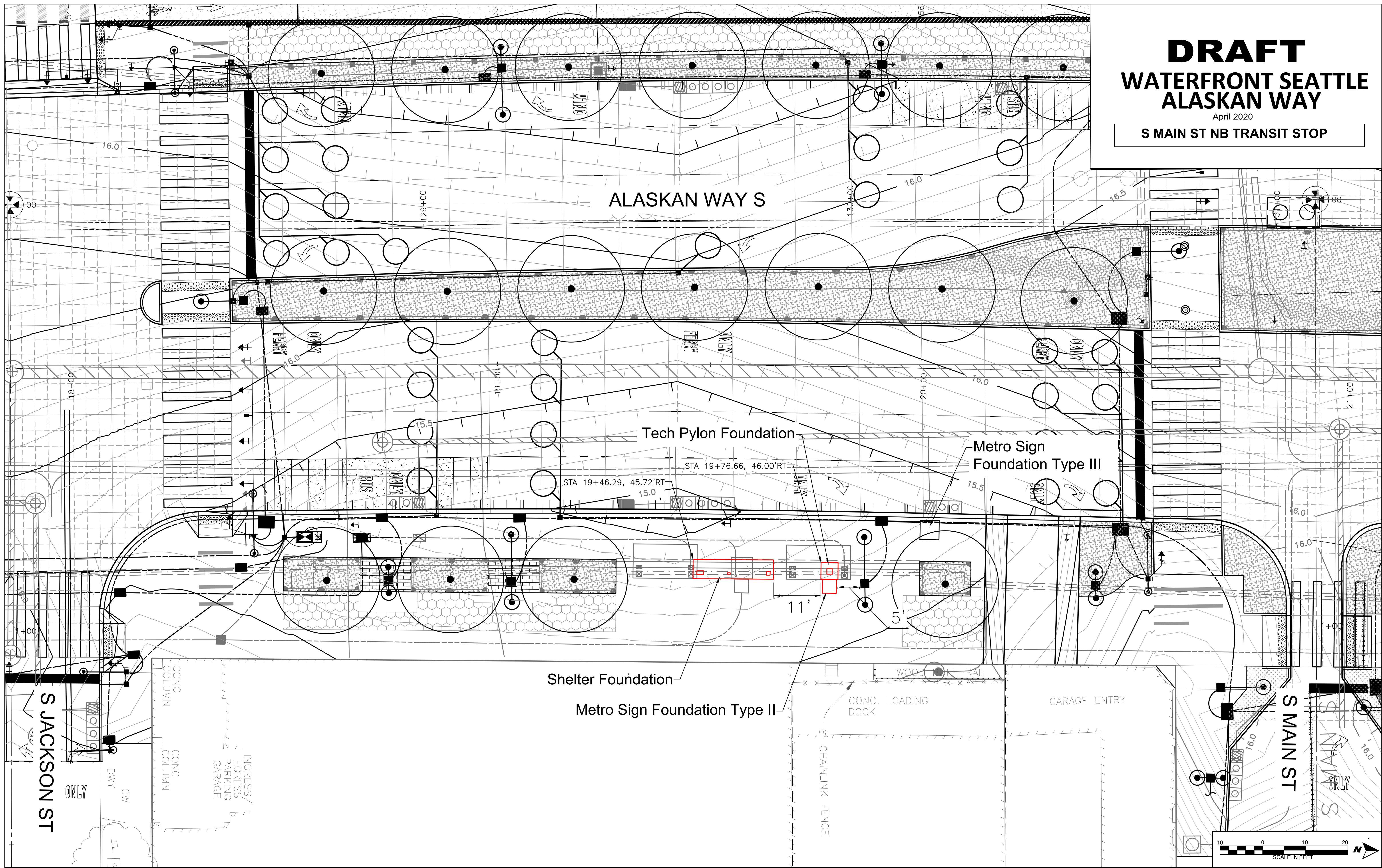
COLUMBIA ST NB TRANSIT STOP



DRAFT WATERFRONT SEATTLE ALASKAN WAY

April 2020

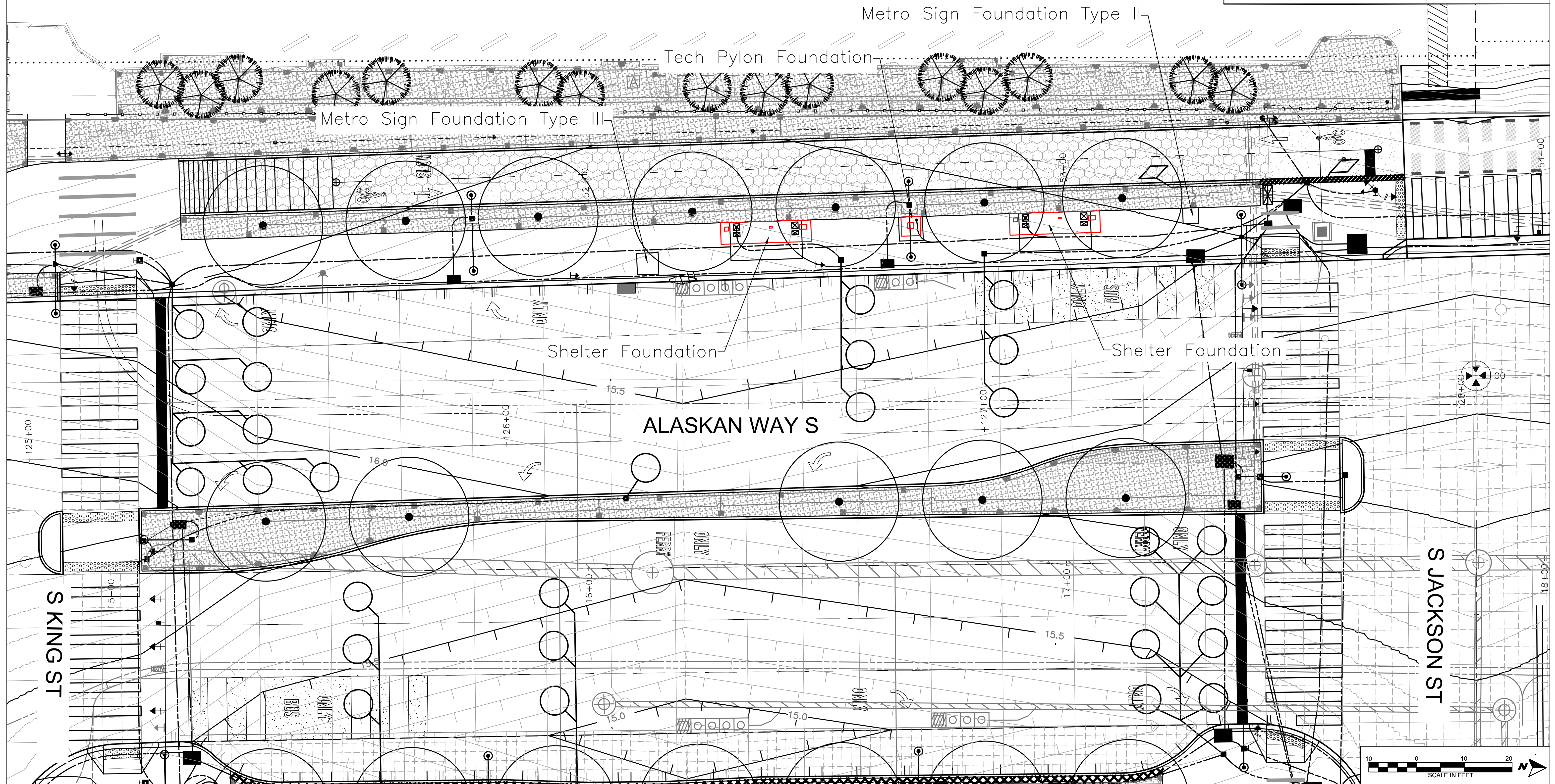
S MAIN ST NB TRANSIT STOP



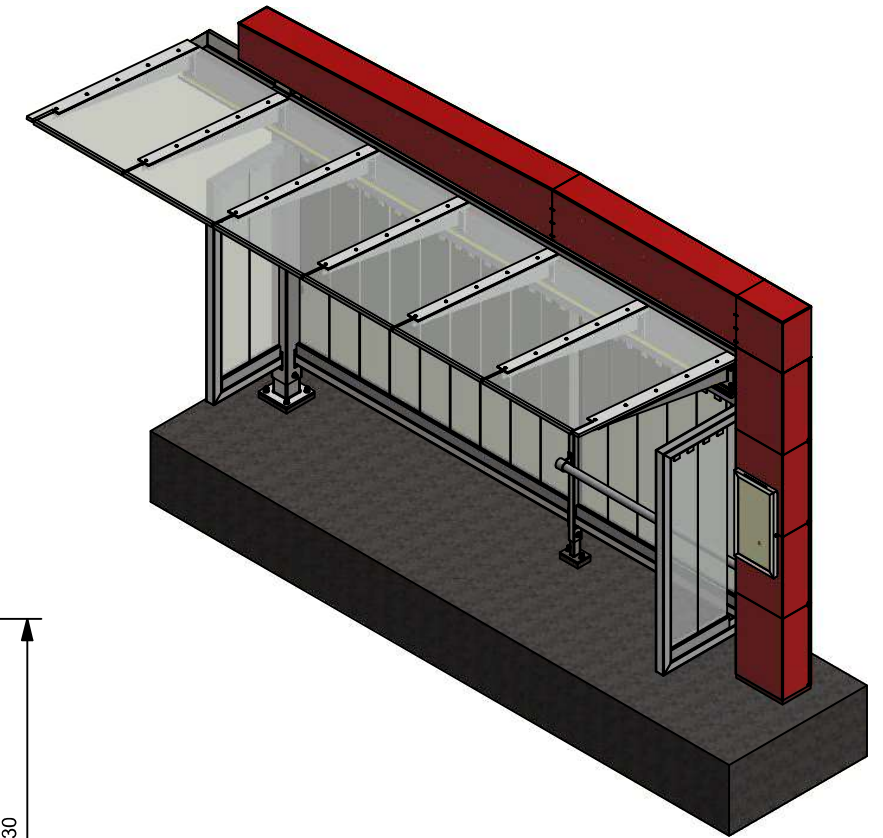
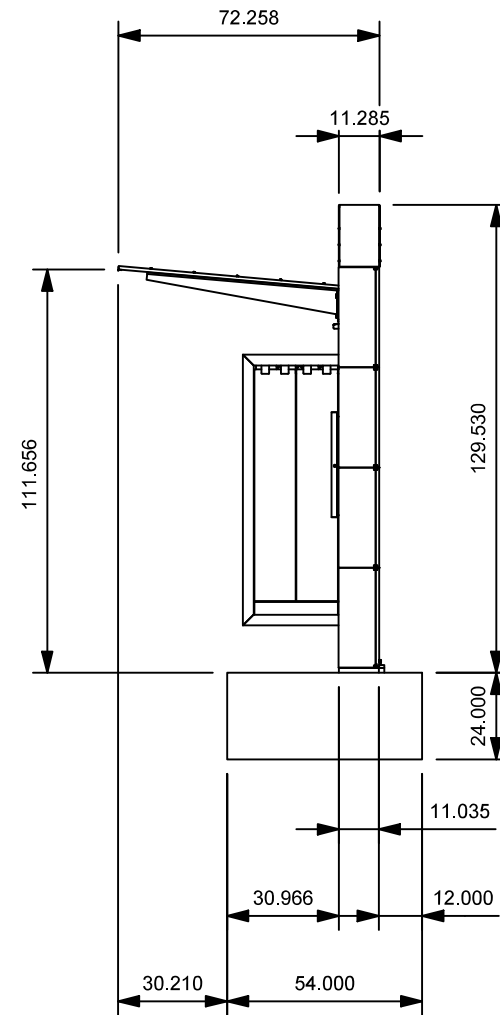
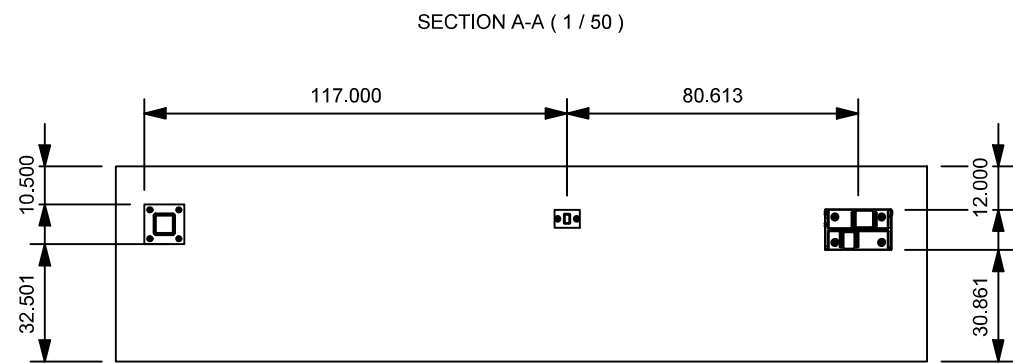
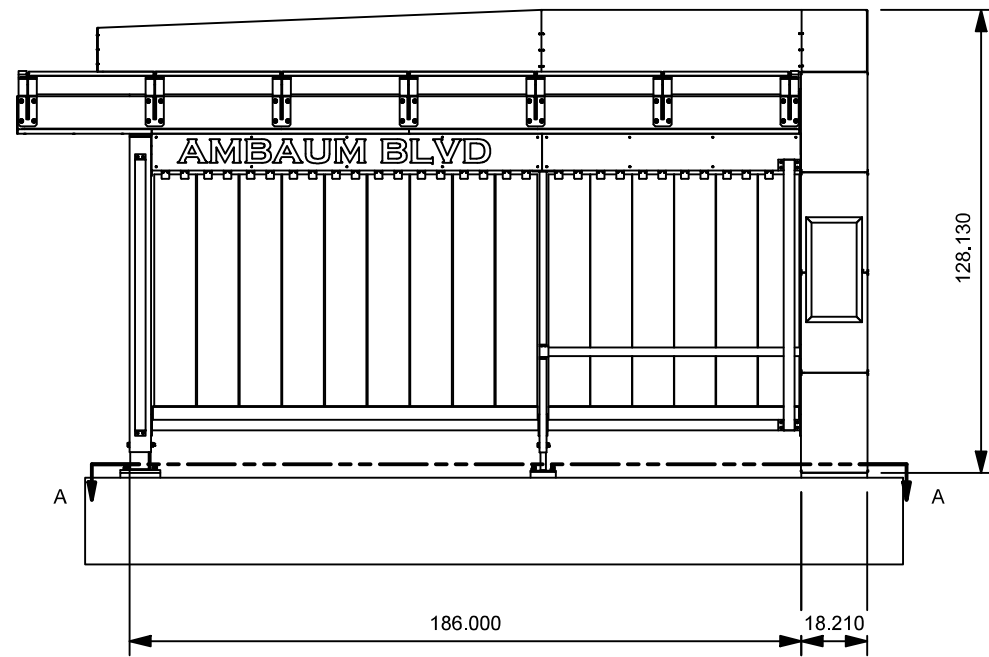
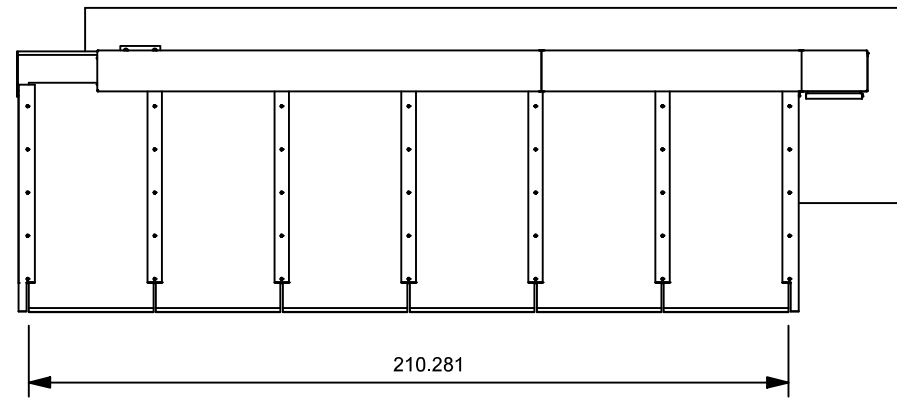
DRAFT WATERFRONT SEATTLE ALASKAN WAY

May 2020

S JACKSON ST SB TRANSIT STOP



IF IN DOUBT ASK

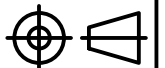


Rev	Initials	Date	Revision details
C	R	11/27/20	Updated Design Details
B	R	06/05/20	Updated Details
A	R	05/26/20	First issue

FINISHED PART



All dimensions in inches,
Do not manually alter
CAD drawings,
Do not scale



Client
Property of KCM



Project

Title
LARGE-NARROW
SHELTER GENERAL
ARRANGEMENT

Scale
Date
2019-07-31

Drawn
Rishi
Checked

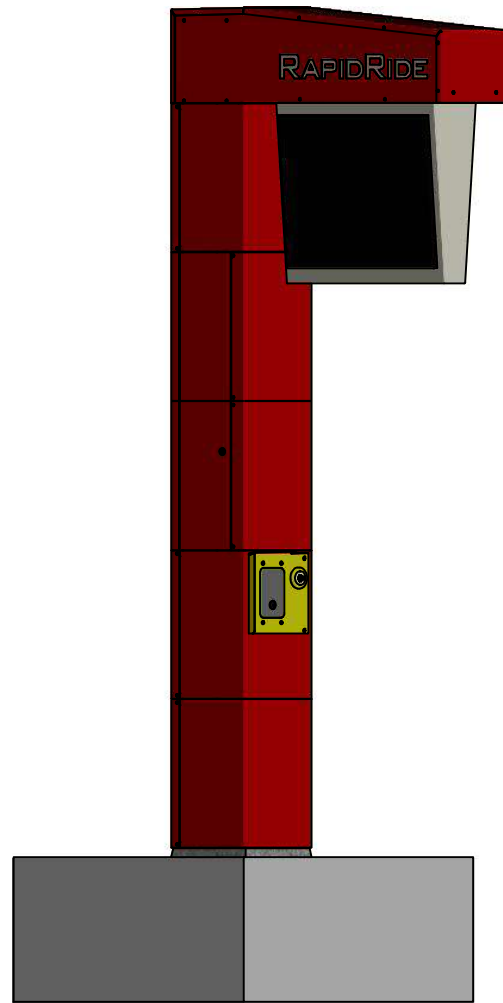
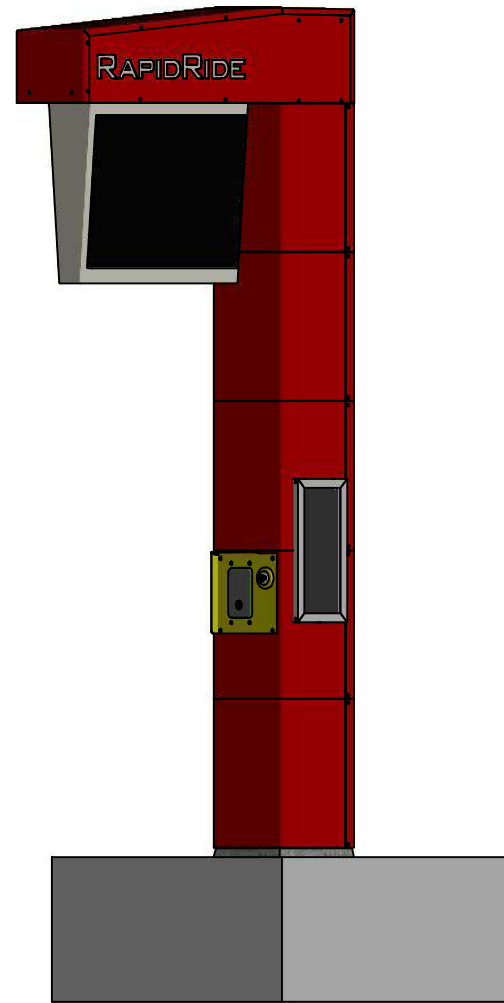
Drawing No.
FSI-105-00-004/001
Rev
C

Structural Details: Please refer to Structural documents provided by Lund-Opsahl.

Notes: Please refer to individual part and/or sub-assembly drawings for further details and dimensions.

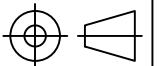
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IF IN DOUBT ASK



PARTS LIST			
ITEM	QTY	DRAWING NUMBER	DESCRIPTION
1	1	FSI-105-01-004_MOD3	TECH PYLON FRAME ASSEMBLY
2	1	ORCA Reader	
4	63	1-4 20 X 1 TAMPER PROOF SS SCREW	MCMMASTER 95635A542 SS PIN-IN-HEX
7	1	FSI-105-02-018	TECH PYLON CLADDING PANEL - New Gen ORCA
15	1	3-8 16 SS SOCKET HEAD CAP SCREW	3/8-16 SS SOCKET HEAD MCMMASTER 92196A622
17	1	FSI-105 TECH PYLON FOUNDATION GROUT	
18	1	FSI-105 TECH PYLON FOUNDATION	
19	8	3-4 IN GALV STEEL FLAT WASHER	3/4" HIGH STRENGTH GALV WASHER MCMMASTER 98119A036
20	12	3-4 10 HIGH STRENGTH STEEL HEX NUT	3/4-10 GR8 HEX NUT MCMMASTER 94895A036
23	1	ORCA Reader_New Gen_Cover Plate	INIT BACK PLATE PRM03MZS020A
27	1	FSI-105-02-032	TECH PYLON TOPMOST CLADDING PANEL ASSEMBLY
33	1	NEMA BOX	
35	8	SELF-DRILLING STEEL SCREW	#10 X 5/8" SELF-DRILLING STEEL SCREW - MCMMASTER 90064A440
36	8	1/4-20 3/4" TAMPER-RESISTANT MACHINE SCREW	TAMPER-RESISTANT SCREW - MCMMASTER 94135A824
39	1	FSI-105-02-043	TECH PYLON TOP HORIZONTAL CLADDING ASSEMBLY
44	1	FSI-105-02-053	ORCA READER HOOD
55	1	FSI-105-01-020	NEMA DOOR ASSEMBLY
56	1	RTIS MOUNT	
57	2	E_INK_42_INCH_SCREEN	EINK 42" DISPLAY
58	1	FSI-105-01-021	DEPARTURE-SIDE SIGN PANEL ASSEMBLY
59	1	FSI-105-01-022	APPROACH-SIDE SIGN PANEL ASSEMBLY
61	54	1-4 20 SS FLANGE NUT	1/4-20 SS FLANGE NUT MCM 94758A028
63	4	3-4 10 X 7 HILTI CHEMICAL ANCHOR	3/4-10 X 7" STEEL HILTI CHEMICAL ANCHOR
64	2	3-8 16 ZINC-PLATED FLANGE NUT	3/8-16 ZINC COATED FLANGE NUT
65	1	FSI-105-01-030	PYLON MAP CASE
68	2	PYLON LED STRIP LIGHT	SOLID APOLLO 5050 72W LED STRIP LIGHT
69	1	CHK41	FALCON PTT BUTTON
70	1	FSI-105-02-033	TECH PYLON BOTTOM CLADDING PANEL
71	3	FSI-105-03-028	TECH PYLON REAR CLADDING PANEL
72	1	FSI-105-02-061	NEMA-LEVEL CLADDING PANEL ASSEMBLY
76	1	FSI-105-02-062	NEMA DOOR ADJACENT CLADDING PANEL ASSEMBLY
77	1	2259N350_PIANO HINGE WITH SLOTS	2" X 4FT SS PIANO HINGE WITH SLOTS
79	1	FSI-105-03-031	TECH PYLON TOP CLADDING UNDERTRAY
80	1	QTRAN VERS-06-SW 14	VERS-06-SW-3.0-35-ENC-TL-CC-14" LINEAR LED FIXTURE
81	2	90198A107_FLAT HEAD PHILLIPS SCREW FOR SHEET MET	4 X 5/8" SS FLAT HEAD SELF-DRILLING SCREW

All dimensions in inches,
Do not manually alter
CAD drawings,
Do not scale



Client
Property of KCM

Project

Title
TECH PYLON GENERAL ASSEMBLY

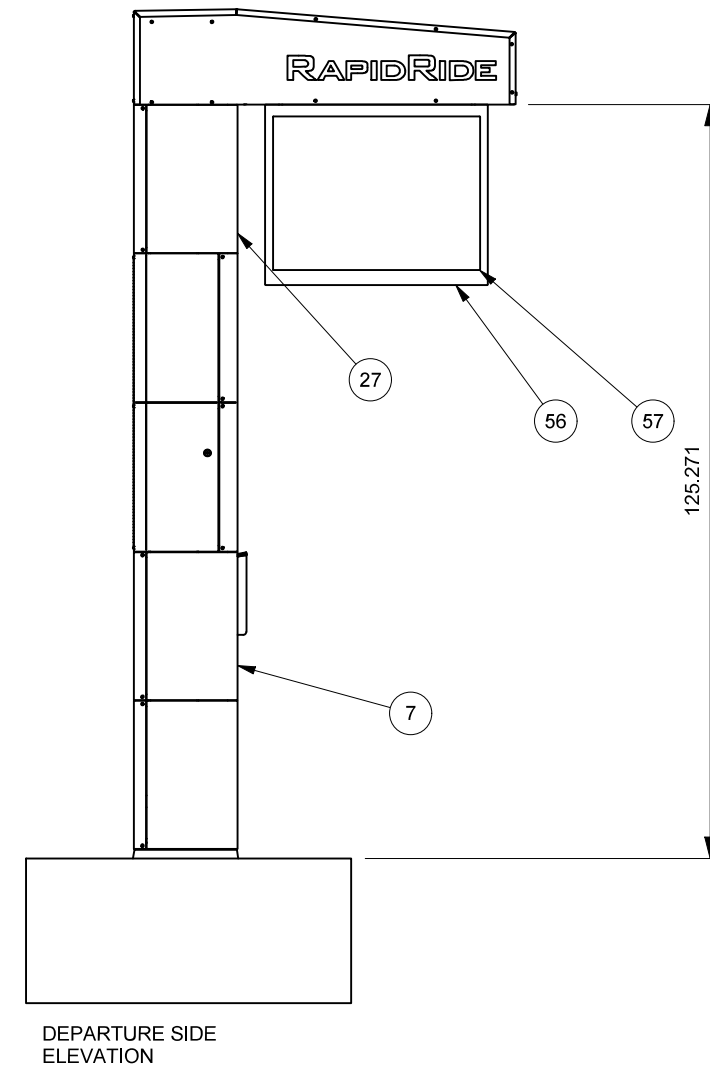
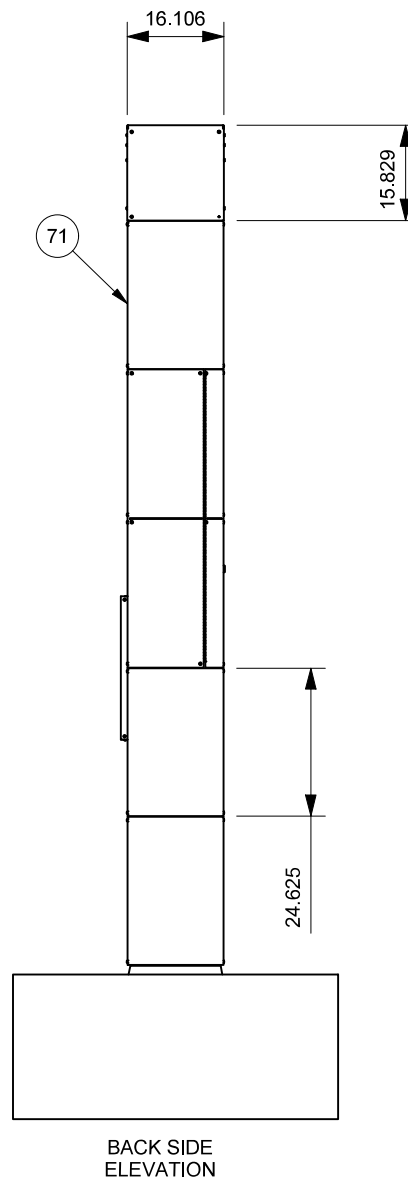
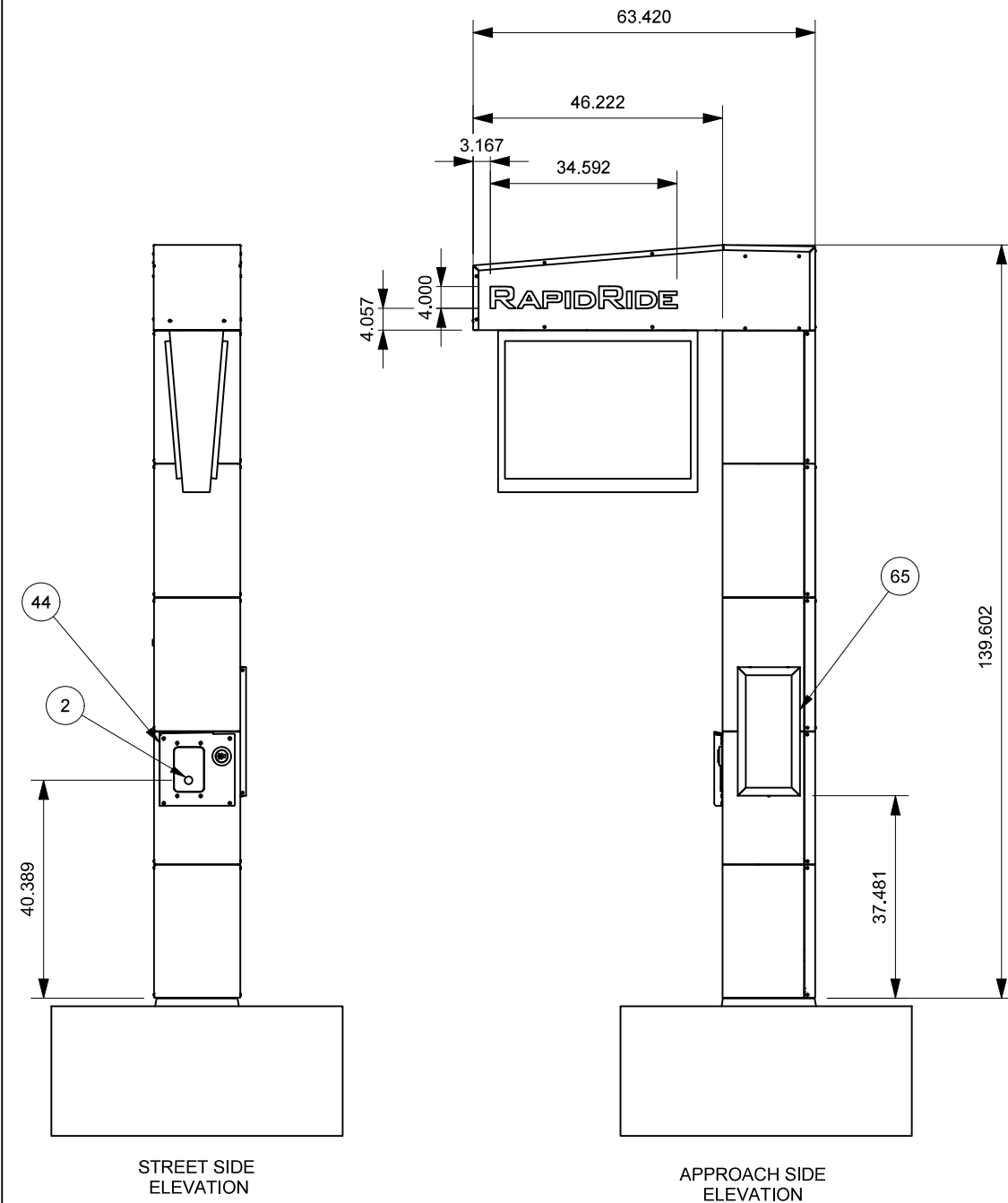
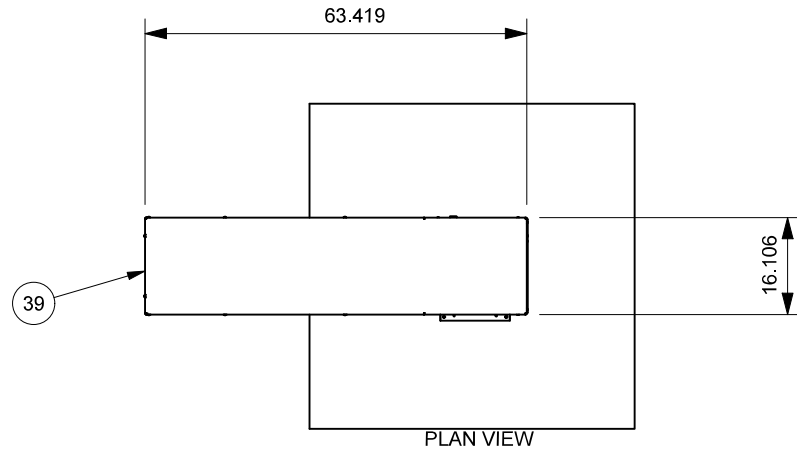
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9/20/2019

Drawn alexl Checked

Drawing No. FSI-105-00-003/01 Rev G

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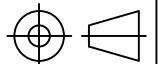


Rev	Initials	Date	Revision details
G	AL	11/17/20	UPDATED PARTS, SUBASSEMBLIES
F	AL	06/26/20	FIXED PARTS LIST
E	AL	05/21/20	90% UPDATES
D	AL	04/08/20	VARIOUS UPDATES
C	AL	27/09/19	ADDED BACKLIGHT AND MAP FRAME
B	AL	23/09/19	ADDED FOUNDATION
A	AL	20/09/19	First issue

FINISHED PART



All dimensions in inches,
Do not manually alter
CAD drawings,
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Client
Property of KCM

Project

Title
TECH PYLON GENERAL ASSEMBLY

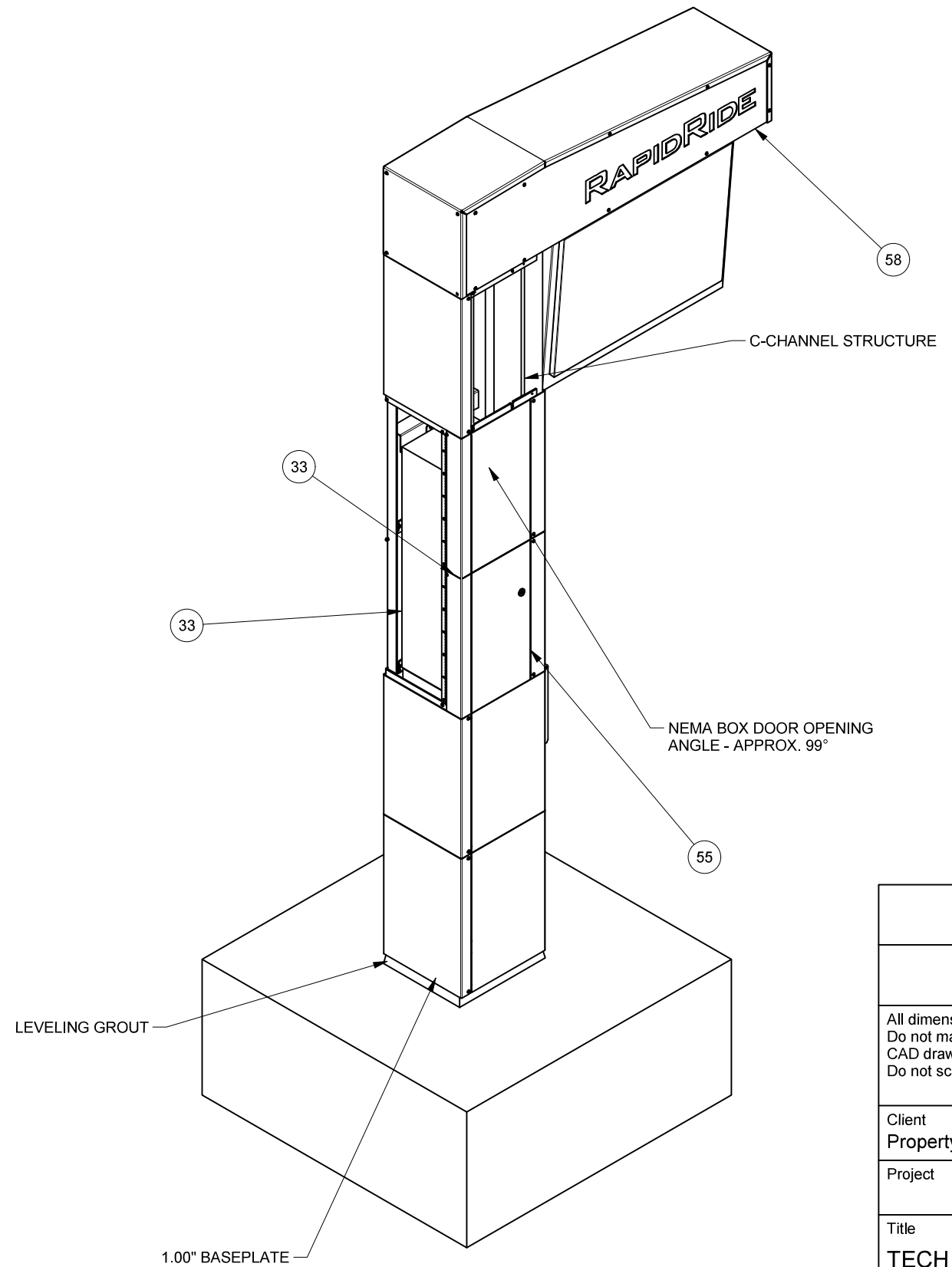
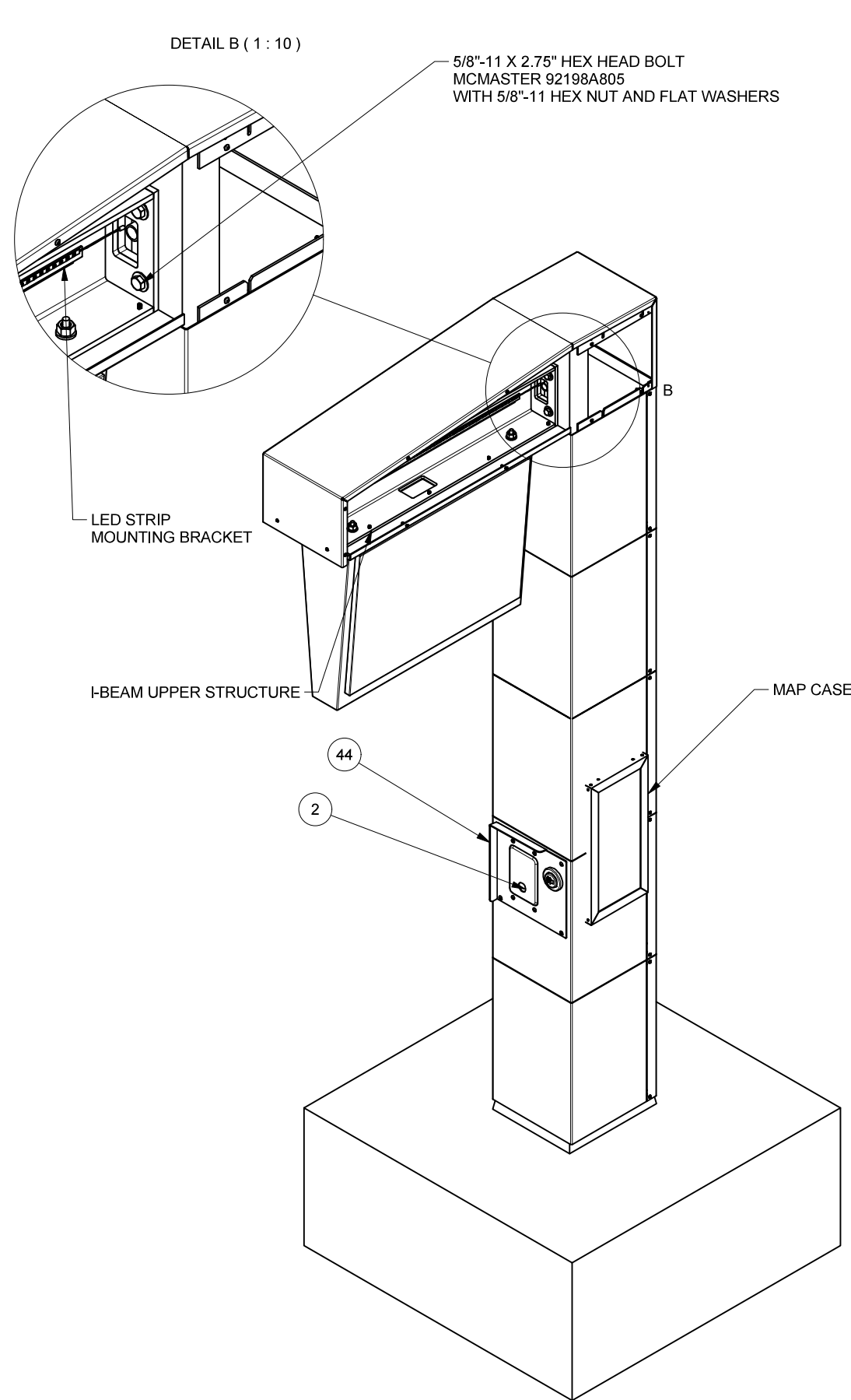
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Date
9/20/2019

Drawn
alexl
Checked

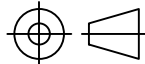
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Client Property of KCM	
Project	
Title TECH PYLON GENERAL ASSEMBLY	
Scale	Date 9/20/2019
Drawn alexl	Checked
Drawing No. FSI-105-00-003/03	Rev G

NB Colman Dock Ferry Terminal Station- Columbia St



Material Samples to be shown on separate page.

NB Colman Dock Ferry Terminal Station- Columbia St



Material samples to be shown on a separate page.

NB Jackson Street Station



Material samples to be shown on a separate page.

NB Jackson Street Station



Material samples to be shown on a separate page.

SB Jackson Street Station



Material samples will be shown on a separate page.

SB Jackson Street Station



Material samples will be shown on a separate page.

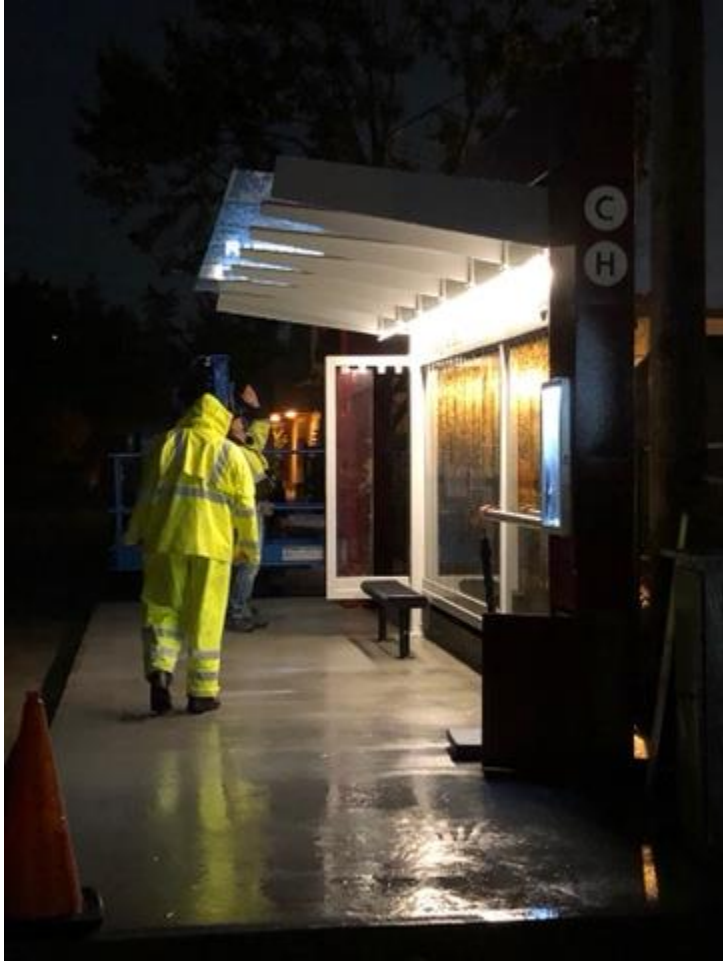
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Prototype Photos

- Below are photos showing the new RapidRide Shelter and Tech Pylon prototypes.
- These were constructed at 90% design, and aesthetically they will be the same as the 100% design to be built on the Waterfront.









NB Colman Dock Ferry Terminal Station- Columbia St



NB Colman Dock Ferry Terminal Station- Columbia St



NB Jackson Street Station



NB Jackson Street Station



SB Jackson Street Station



SB Jackson Street Station



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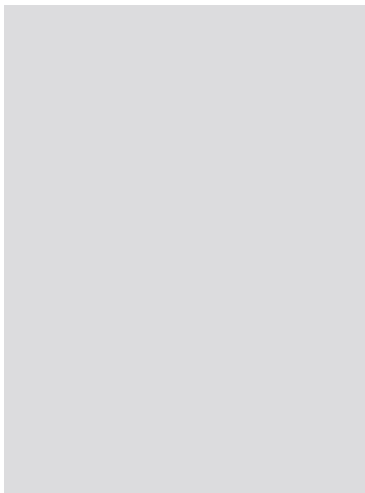
Proposed Color Samples

- For the shelter, Metro proposes to use the light gray on the steel frame and the red on the cladding.
- For the tech pylon, Metro proposes to use the red color on cladding.

Red



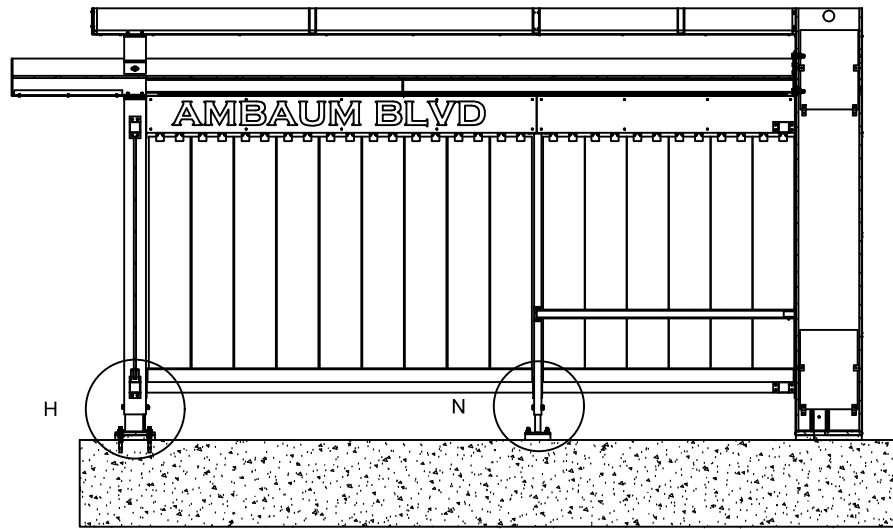
Light Gray



Note: Actual materials samples to be shown during videoconference.

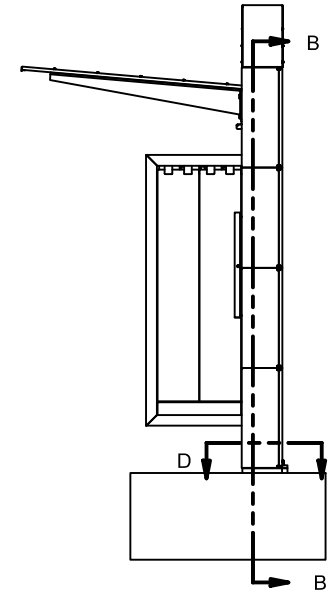
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SECTION B-B (1 / 50)

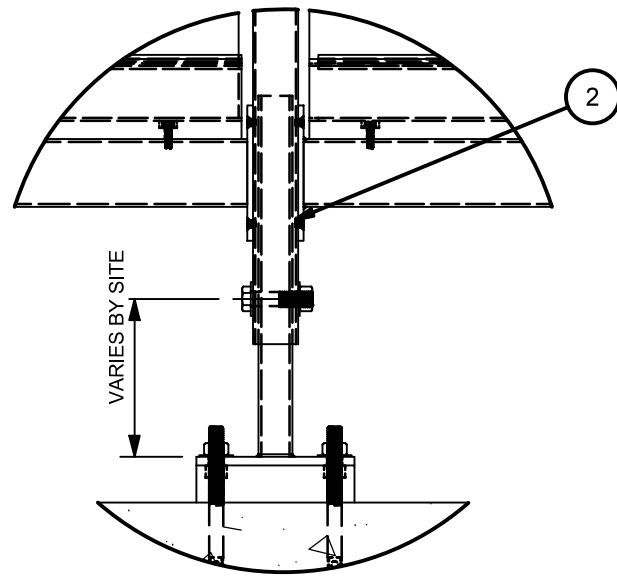


FOUNDATION ANCHORING

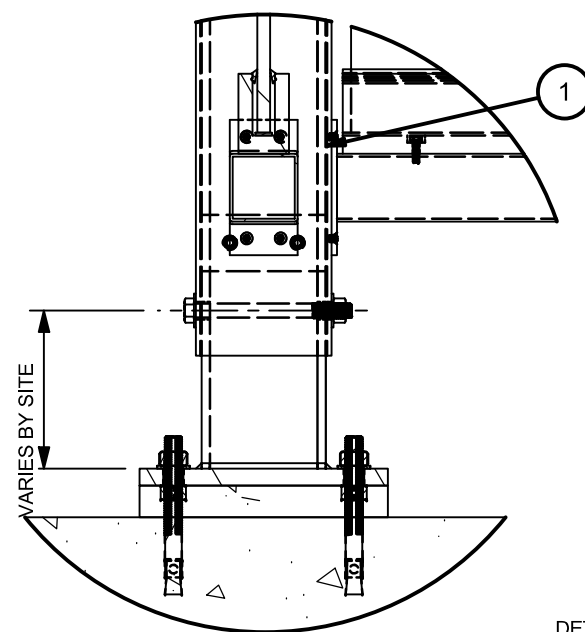
SECTION D-D (1 / 50)



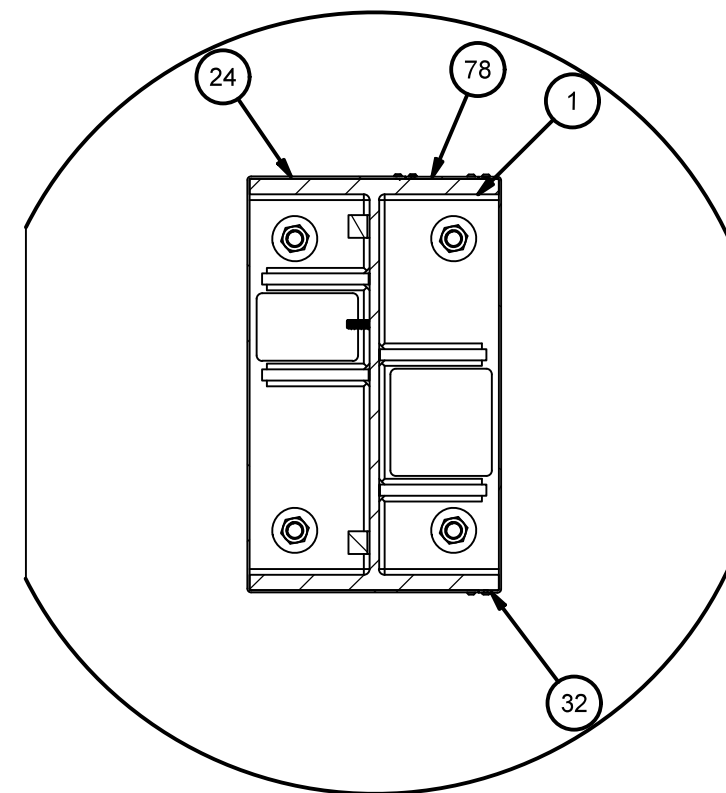
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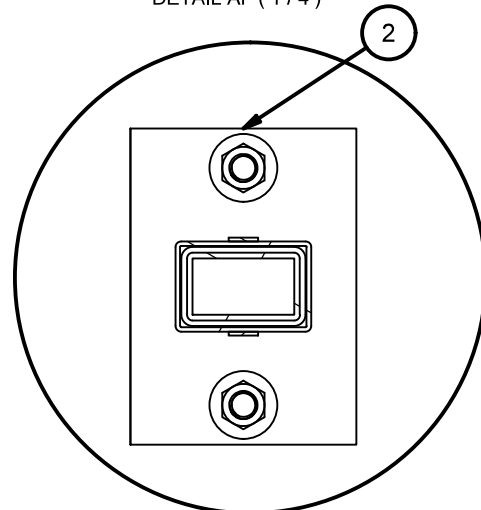
DETAIL H (1 / 8)



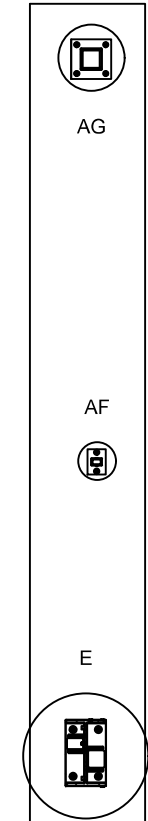
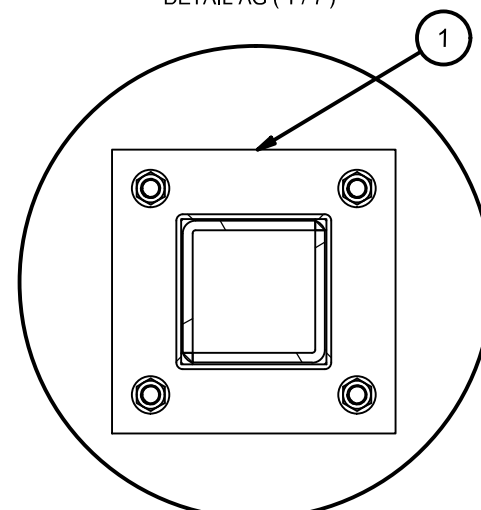
DETAIL E (1 / 8)



DETAIL AF (1 / 4)



DETAIL AG (1 / 7)

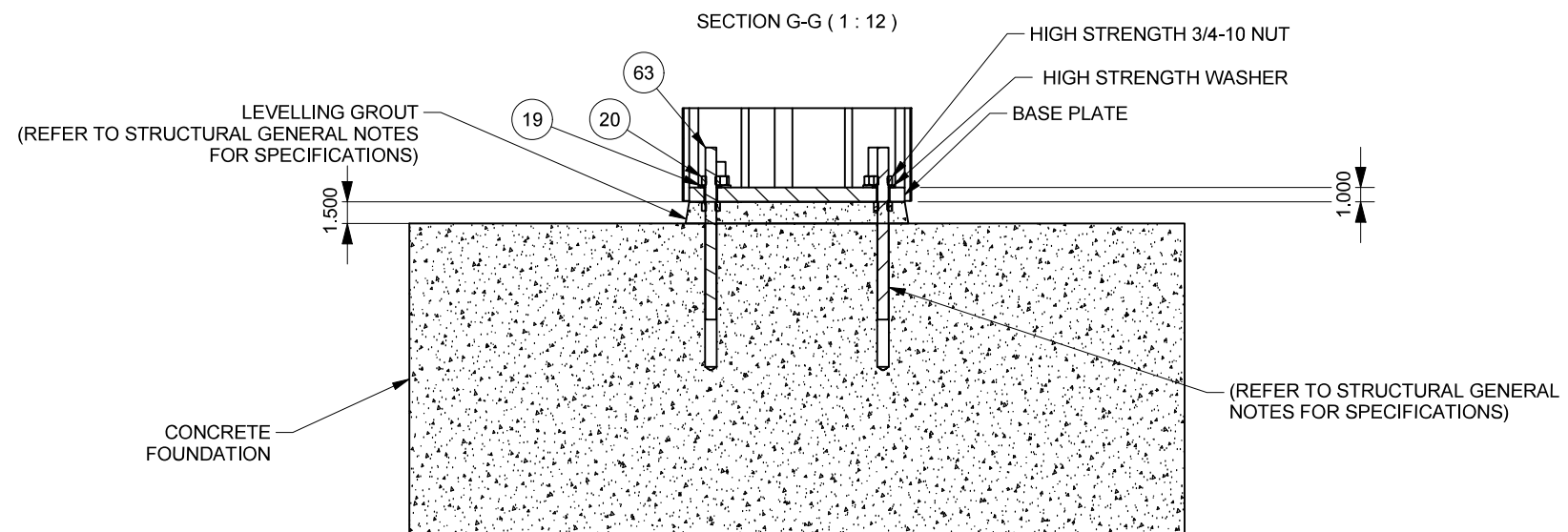
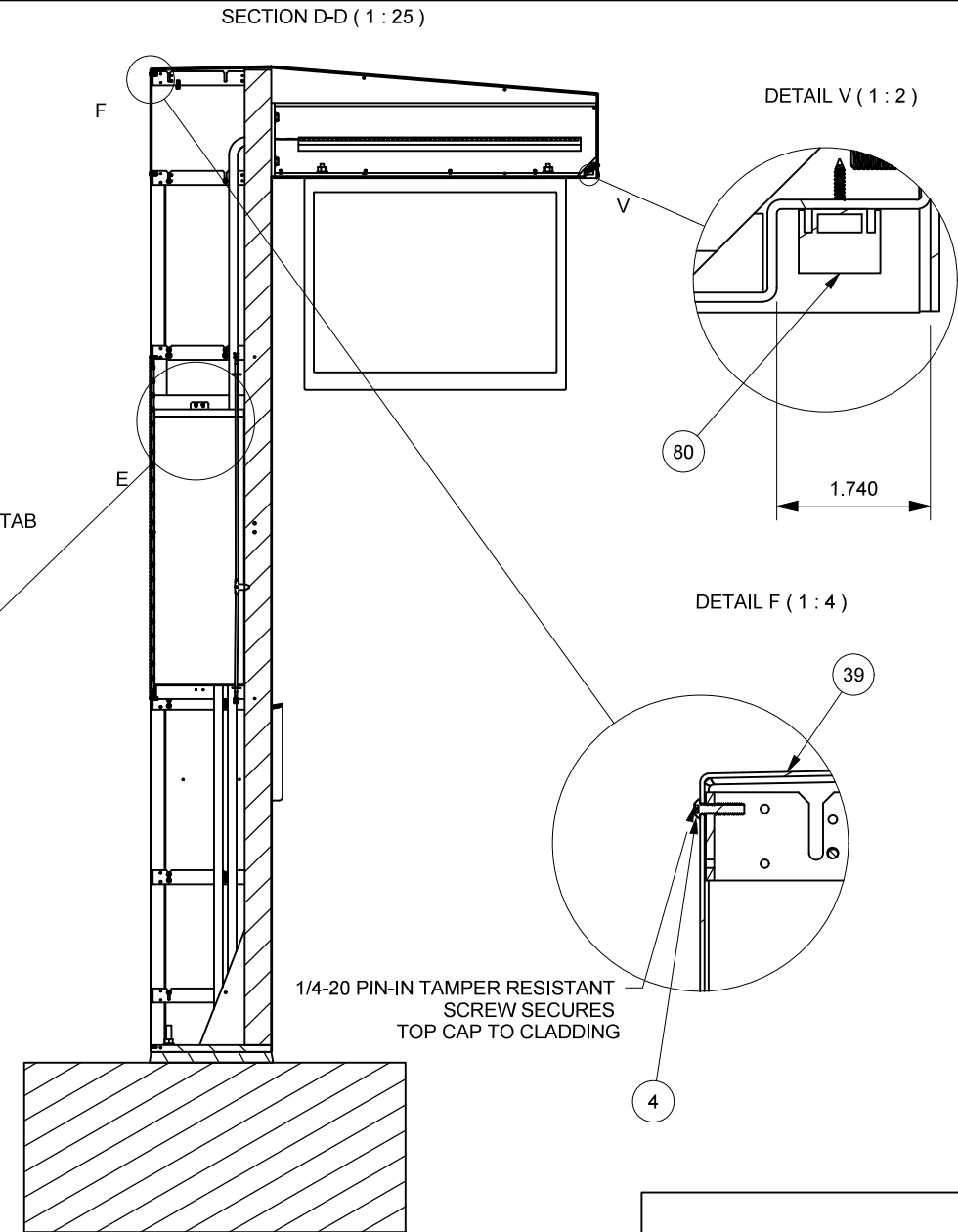
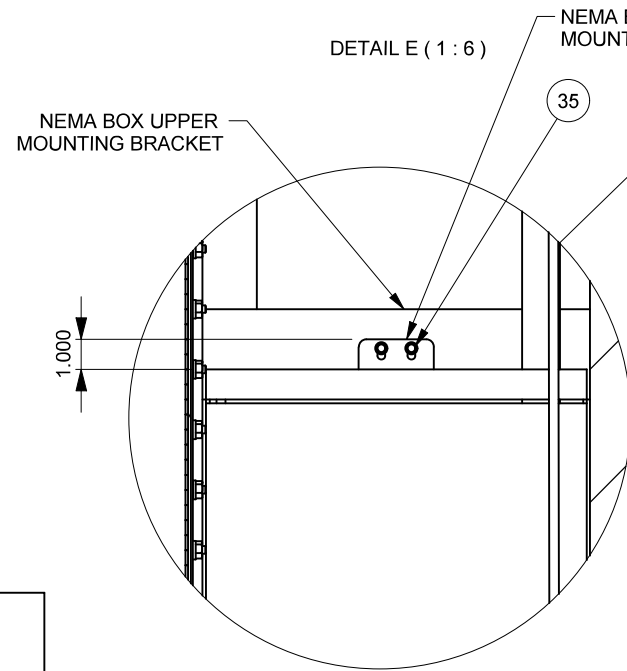
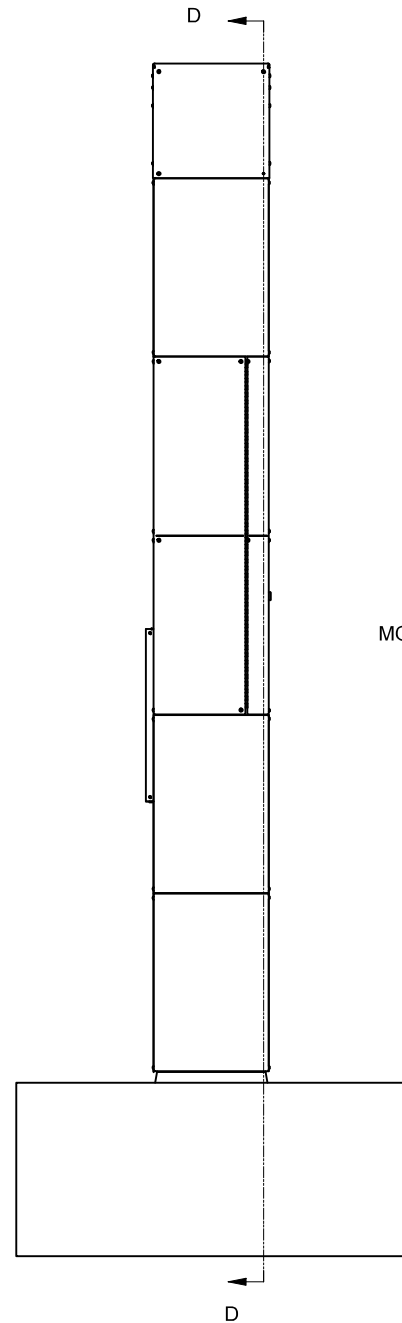
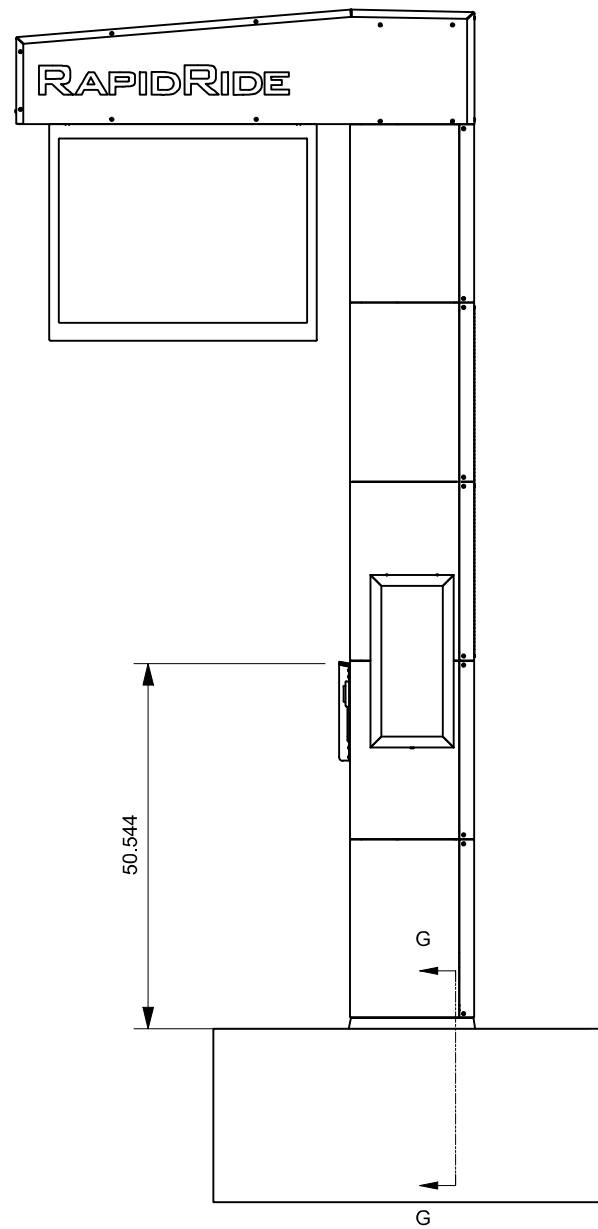


All dimensions in inches, Do not manually alter CAD drawings, Do not scale		
Client	King County METRO	
Property of KCM		
Project		
Title	LARGE-NARROW SHELTER GENERAL ARRANGEMENT	
Scale	Date	2019-07-31
Drawn	Rishi	Checked
Drawing No.	FSI-105-00-004/003	Rev C

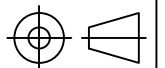
Structural Details: Please refer to Structural documents provided by Lund-Opsahl.

Remove all burrs and sharp edges unless otherwise stated. Tolerances unless stated to be at $\pm 1/32"$

IF IN DOUBT ASK



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Client
Property of KCM

Project

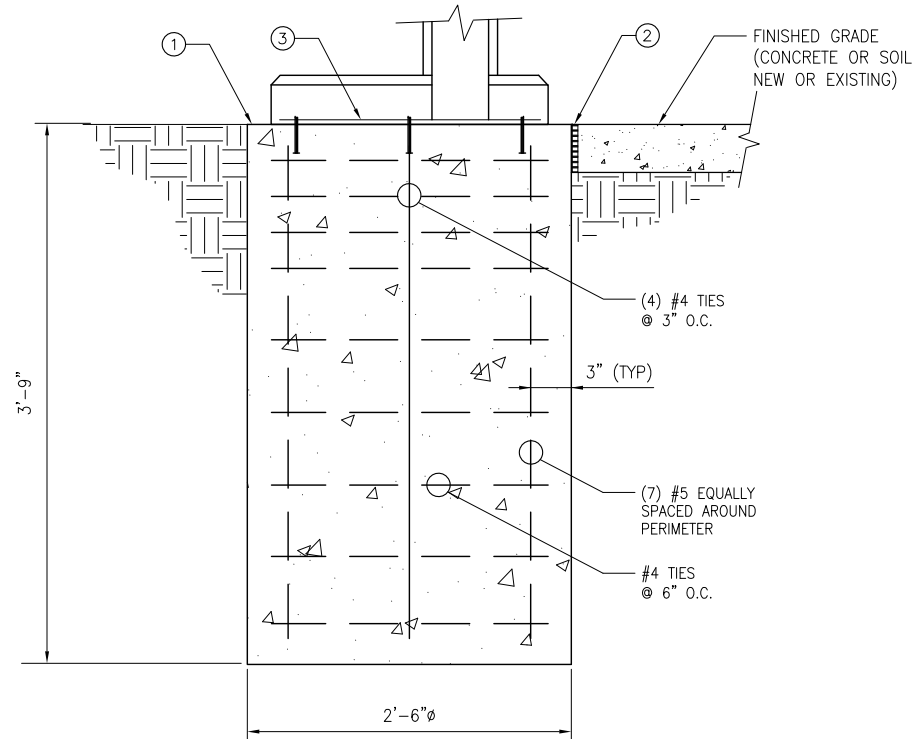
Title
**TECH PYLON GENERAL
ASSEMBLY**

Scale Date
9/20/2019

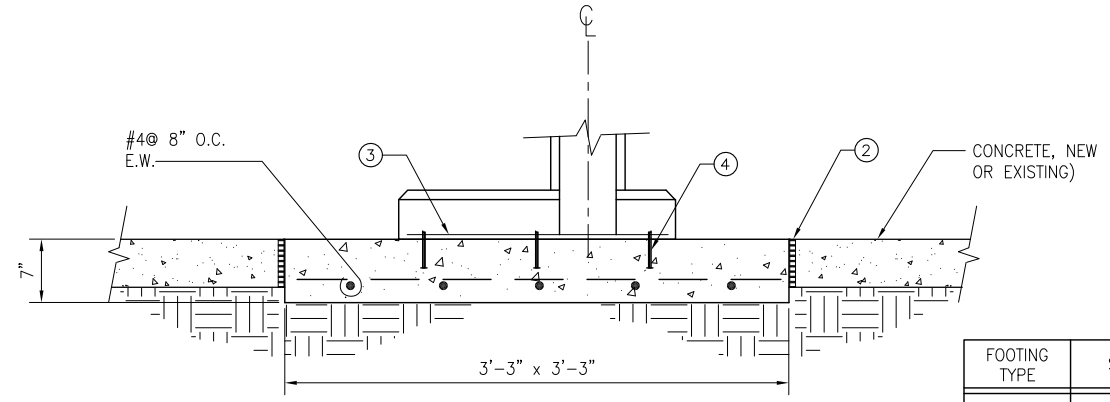
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Drawing No. Rev
FSI-105-00-003/0 G

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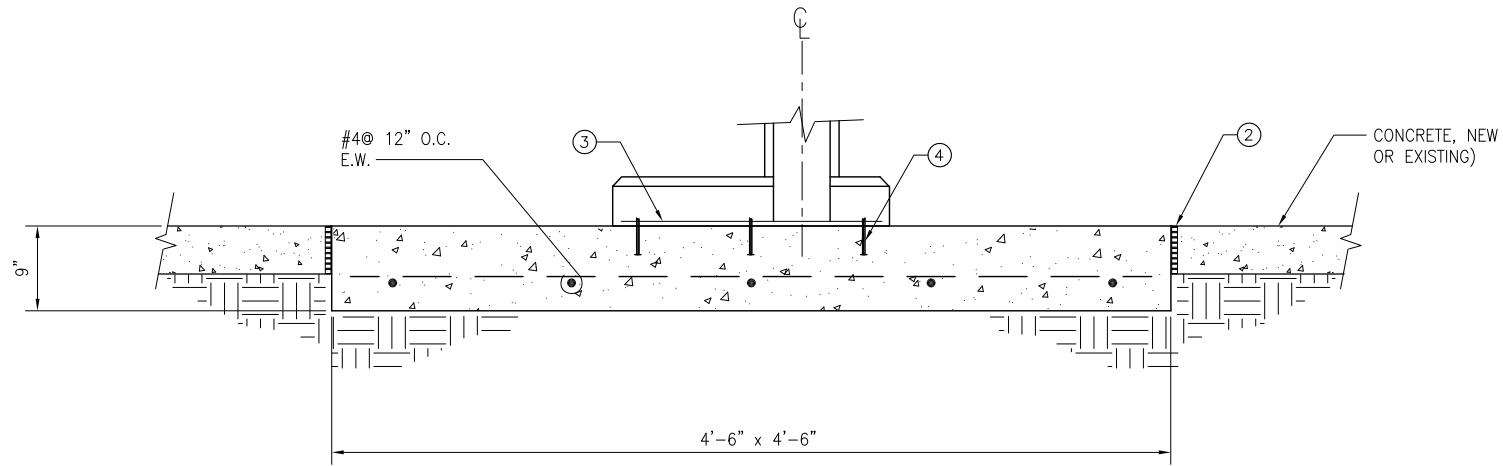
TYPE I SIGN FOOTING
ELEVATION
DETAIL
SCALE: NONE



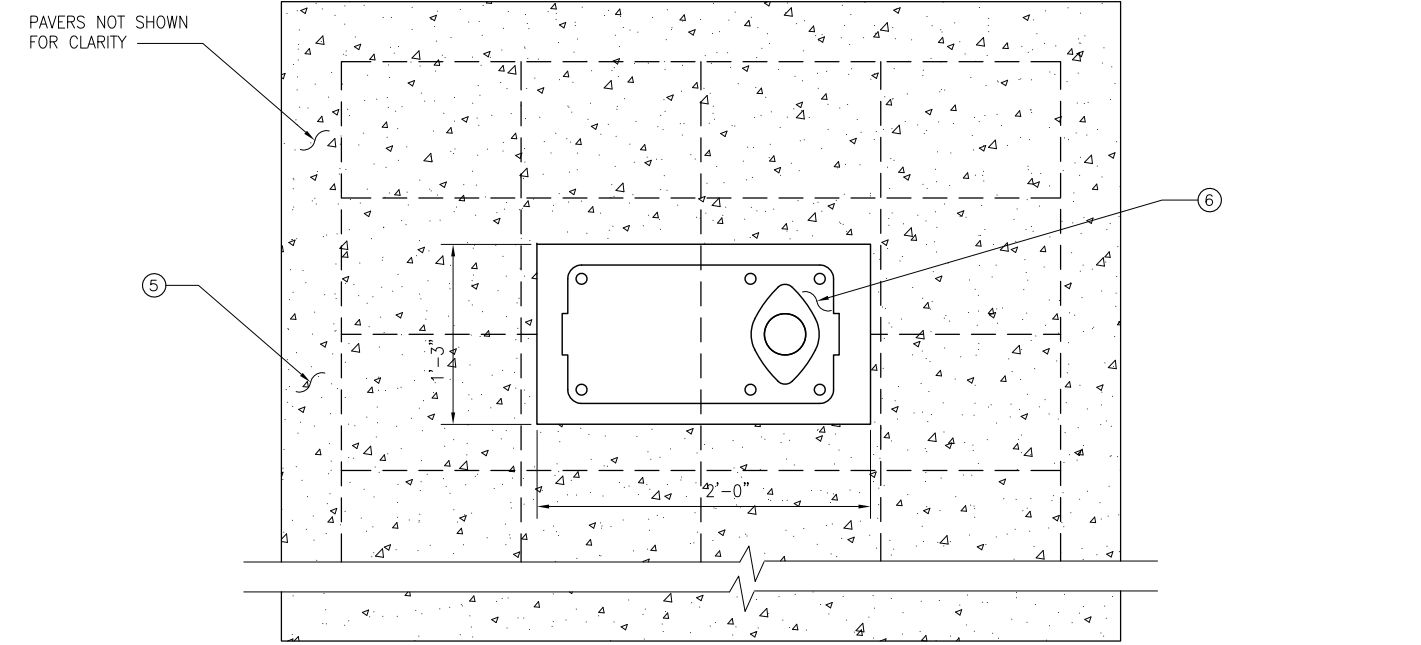
TYPE II SIGN FOOTING
ELEVATION
DETAIL
SCALE: NONE

FOOTING TYPE	SIGN TYPES
TYPE I	B1, C1, C2, D1
TYPE II	D1
TYPE III	B1, C1, C2

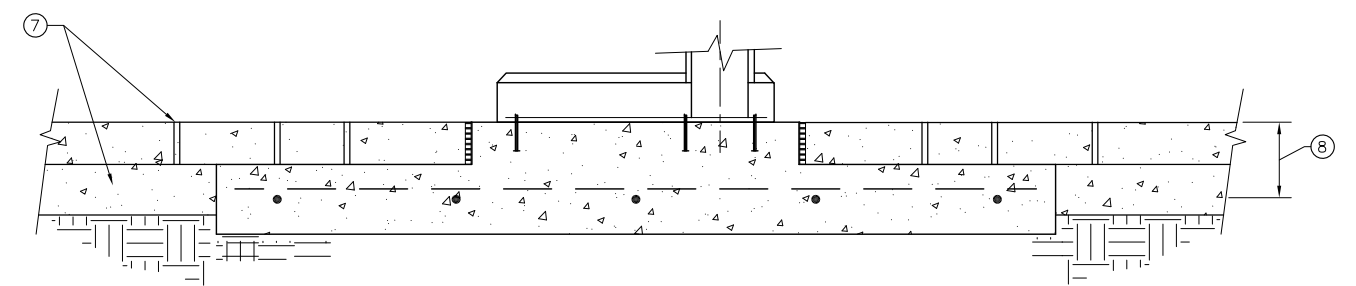
- CONSTRUCTION NOTES**
- TOP OF CONCRETE FOOTING FLUSH WITH EXISTING FINISHED GRADE ALL AROUND.
 - JOINT PER 3/D101 TO ISOLATE ALL EDGES FROM PAVEMENT, SIDEWALKS, AND OTHER STRUCTURES.
 - BASE PLATE, ANCHOR BOLTS AND SIGN INSTALLATION (BY OTHERS).
 - 3/4" S.S. THREADED ROD, TYP. 4" MIN EMBED, (6) PER SIGN. USE HILTI-HIT-RE 500-SD TO EPOXY ANCHORS IN PLACE. PROVIDE LEVELING NUTS AND NON-METALLIC NON-SHRINK GROUT TO SET SIGN PLUMB AND LEVEL (BY OTHERS).
 - SEE SITE PLAN FOR FOOTING DIMENSIONS AND TYPE.
 - SEE SITE PLAN FOR SIGN TYPE AND PLATE INSTALLATION DETAILS.
 - EXISTING PAVERS AND SIDEWALK STRUCTURE. SEE SITE PLAN FOR DETAILS AND PAVERS REMOVAL AND REINSTALLATION INSTRUCTIONS.
 - UNLESS SHOWN OTHERWISE IN THE SITE PLAN, T=9" FOR TYPE III FOOTING AND 7" FOR TYPE II FOOTING.



TYPE III SIGN FOOTING
ELEVATION
DETAIL
SCALE: NONE



PLAN VIEW



ELEVATION
TYPE II OR TYPE III SIGN FOOTING UNDER PAVERS
DETAIL
SCALE: NONE

KCMT 2020-2021 STANDARD DETAILS

No.	REVISION	BY	APPD	DATE



DESIGNED: K. CHANG YUEN	APPROVED: D. CRIPPEN
DRAWN: G. CAREY	PROJECT NO.:
CHECKED: K. CHANG YUEN	CONTRACT NO.:
CHECKED: C. ASQUITH	



METRO TRANSIT CAPITAL DIVISION
TRANSIT PASSENGER FACILITIES - IMPROVEMENTS

SIGN FOOTING DETAILS

DATE: 4/2020
DRAWING NO: D104A
SHEET NO. OF 11 20

I:\DOT\kingcounty\it\Transit\CC\CAD_Folders\Projects\Passenger Facilities\Standard Details\2020-2021 STANDARD DETAILS\SD104A.dwg | Layout D104
 PLOTTED: Apr 21, 2020 12:21:33pm By G.Carey
 XREFS: KCMT-BORDER.dwg
 IMAGES:

King County Metro Transit Bus Stop Expansion Project
Northbound Columbia St and Alaskan Way (Stop 1558) - 61 Columbia St
Northbound Alaskan Way and S Jackson St (New Stop) - 304 Alaskan Way S/74 S Jackson St
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Jerry Roberson, (206) 263-0776
Application: December 1, 2020

Lighting Description

- Each shelter includes light strips on the front sign band and around the map case.
 - The shelter roof glass is frosted, which will contain/minimize light pollution.
- Each tech pylon includes a backlit “RapidRide” logo and a small down light for visibility.
- The shelter and tech pylon will use QTran LED Lighting, Model VERS-Encapsulated (06). Website: <https://www.q-tran.com/products/linear-fixtures-vers-encapsulated-06/>
- The station lights will be connected to dimmers so that the brightness will be adjustable per bus station.
- The light temperature will be “warm” (3,000K).
- A technical specifications sheet is attached separately.

Lighting Photos from Prototype

Below are photos showing details of the lighting on the RapidRide shelter and tech pylon. Please refer to the separate “Prototype Photos” file showing the entire station lit up at night.





VERS-ENCAPSULATED (06)

Linear Fixtures



Part Number Builder

Static White



Product	W/FT	CCT	Rated	Lens	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
VERS-06-SW												
Voltage: 24 VDC	1.5 3.0 4.0 5.0	24 27 30 35 40	DRY (IP20) WET (IP67)	ENC/CL ENC/TL	S1 S2 Single (Closed exit) P1 P2 Pass through	BW CON6 CON24	CLS BW CON6 CON24	WH BK WH BK	CL2 CL2P CL2 CL2P	CC MG CC MG	ST BK BZ WH	

*Available in 1" increments for 1.5W/ft - 5.0W/ft. Maximum length of 96", plus end caps. See fixture detail on page 3. Minimum fixture length 6".

High Efficacy



Product	W/FT	CCT	Rated	Lens	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
VERS-06-SW												
Voltage: 24 VDC	1.5HE 3.0HE 6.0HE	24 27 30 35 40	DRY (IP20) WET (IP67)	ENC/CL ENC/TL	S1 S2 Single (Closed exit) P1 P2 Pass through	BW CON6 CON24	CLS BW CON6 CON24	WH BK WH BK	CL2 CL2P CL2 CL2P	CC MG CC MG	ST BK BZ WH	

*Available in 2" increments to 96", plus end caps. See fixture detail on page 3. Minimum fixture length 6".

Dynamic White



Product	W/FT	CCT	Rated	Lens	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
VERS-06-DW	6.0	24/30										
Voltage: 24 VDC			DRY (IP20) WET (IP67)	ENC/CL ENC/TL	S1 S2 Single (Closed exit) P1 P2 Pass through	BW CON6 CON24	CLS BW CON6 CON24	WH BK WH BK	CL2 CL2P CL2 CL2P	CC MG CC MG	ST BK BZ WH	

*Available in 2" increments to 96", plus end caps. See fixture detail on page 3. Minimum fixture length 6".

- BW** comes in standard 36"- request custom length (Max 120") by writing it in inches next to "BW" in the order code box (ex. BW48)
- Connector/Wire In or Out** not needed to specify product. Standard configuration is Type S1, Connector/Wire In: BW & Connector/Wire Out: CLS
- Specify **CL2P** for plenum rated wire
- One Step, One Bin** based on 5W/ft
- CON6** and **CON24** are not to be used with IP67 rated strips

VERS-ENCAPSULATED (06)

Linear Fixtures



Static Color



Product	W/FT	CCT	Rated	Lens	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
VERS-06-SC	5.0											
Voltage: 24 VDC												
		GR BL RD AB	DRY (IP20) WET (IP67)	ENC/CL ENC/TL	S1 S2 Single (Closed exit) P1 P2 Pass through	BW CON6 CON24 BW CON6 CON24	CLS BW CON6 CON24	WH BK WH BK	CL2 CL2P CL2 CL2P	CC MG	ST BK BZ WH	

*Available in 2" increments to 96", plus end caps. See fixture detail on page 3. Minimum fixture length 6".

RGB



Product	W/FT	CCT	Rated	Lens	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
VERS-06-RGB	6.0	RGB										
Voltage: 24 VDC												
			DRY (IP20) WET (IP67)	ENC/CL ENC/TL	S1 S2 Single (Closed exit) P1 P2 Pass through	BW CON6 CON24 BW CON6 CON24	CLS BW CON6 CON24	WH BK WH BK	CL2 CL2P CL2 CL2P	CC MG	ST BK BZ WH	

*Available in 2" increments to 96", plus end caps. See fixture detail on page 3. Minimum fixture length 6".

RGBW



Product	W/FT	CCT	Rated	Lens	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
VERS-06-RGBW	6.0		DRY									
Voltage: 24 VDC												
		RGBW-27 RGBW-30	DRY (IP20)	ENC/CL ENC/TL	S1 S2 Single (Closed exit) P1 P2 Pass through	BW CON6 CON24 BW CON6 CON24	CLS BW CON6 CON24	WH BK WH BK	CL2 CL2P CL2 CL2P	CC MG	ST BK BZ WH	

*Available in 4" increments to 96", plus end caps. See fixture detail on page 3. Minimum fixture length 6".

- BW** comes in standard 36"- request custom length (Max 120") by writing it in inches next to "BW" in the order code box (ex. BW48)
- Connector/Wire In or Out** not needed to specify product. Standard configuration is Type S1, Connector/Wire In: BW & Connector/Wire Out: CLS
- Specify **CL2P** for plenum rated wire
- CON6** and **CON24** are not to be used with IP67 rated strips

- Field modifications void warranty
- Data subject to change, all data has +/- 5% tolerance
- Contact Q-Tran for compatible power supplies

- NRTL Listed for install in Storage Areas with Clothing, NEC Field 410.2 and 410.16 when assembled as a fixture, at Q-Tran facility

VERS-ENCAPSULATED (06)

Linear Fixtures



Technical Information

Static White [Calculated L70(6k) = 70000 hours]
Tested with VERS-06-SW-**-30-DRY-**

	1.5W/FT		3.0W/FT		4.0W/FT		5.0W/FT	
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI
ENC/CL	139	96	242	96	286	96	347	96
ENC/TL	125	96	204	96	273	96	307	96

Static Color [Calculated L70(6k) = 30000 hours]
Tested with VERS-06-SC-5.0-**-DRY-**

	Red		Green		Blue		Amber	
	LM/FT	Wavelength	LM/FT	Wavelength	LM/FT	Wavelength	LM/FT	Wavelength
ENC/CL	108	632	450	516	105	465	108	594
ENC/TL	100	632	395	515	98	465	98	594

Dynamic White

[Calculated L70(6k) = 70000 hours]
Tested with VERS-06-DW-6.0-**-DRY-**

	2400K		3000K	
	LM/FT	CRI	LM/FT	CRI
ENC/CL	204	92	218	94
ENC/TL	187	93	189	96

High Efficacy [Calculated L70(6k) = 70000 hours]
Tested with VERS-06-SW-**-30-DRY-**

	1.5HE W/FT		3.0HE W/FT		6.0HE W/FT	
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI
ENC/CL	185	97	335	96	575	96
ENC/TL	154	97	283	96	490	96

RGB [Calculated L70(6k) = 55000 hours]
Tested with VERS-06-RGB-6.0-RGB-DRY-**

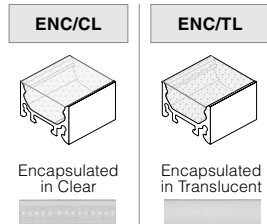
	Red		Green		Blue	
	LM/FT	Wavelength	LM/FT	Wavelength	LM/FT	Wavelength
ENC/CL	85	631	160	522	47	469
ENC/TL	71	631	127	523	37	470

RGBW [Calculated L70(6k) = 30000 hours]
Tested with VERS-06-RGBW-6.0-**-DRY-**

	2700K		3000K		Red		Green		Blue	
	LM/FT	CRI	LM/FT	CRI	LM/FT	Wavelength	LM/FT	Wavelength	LM/FT	Wavelength
ENC/CL	116	92	115	92	35	630	99	514	31	466
ENC/TL	92	92	104	93	32	633	87	512	28	464

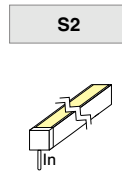
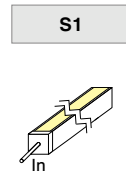
Lens

with LED visibility

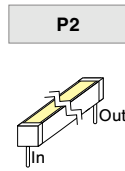
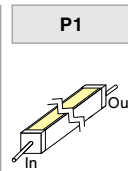


Input/Output

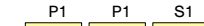
SINGLE (Input only)



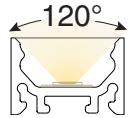
PASS THROUGH (Input/Output)



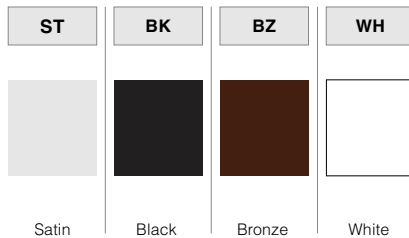
ORDER EXAMPLE



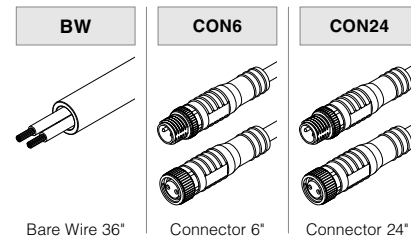
Beam Angle



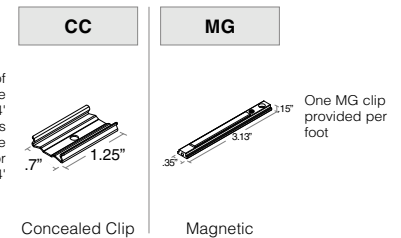
Finish



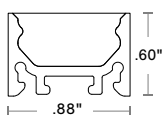
Connector/Wire – In/Out



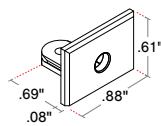
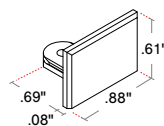
Mounting



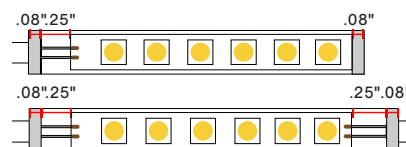
Dimensions



End Caps



LED Length (in): Add to nominal LED length for fixture length



$$\begin{aligned} &\text{Endcap\#1} \\ &\text{Endcap\#2} \\ &\text{Space to solder wire} \\ \text{S1 } &.08" + .08" + .25" = .41" \\ \text{P1 } &.08" + .08" + 2(.25") = .66" \end{aligned}$$



Connectpoint® 42"

42" Digital Real Time Display

Connectpoint's newest generation of large ePaper displays have rugged protection, enhanced energy management and superb clarity. The CP-42 offers a customizable presentation of visual mapping, real-time departures, custom messaging, and optional advertising. This display can be either AC or solar-powered and mounted to a shelter frame or enclosed in a freestanding totem.

The CP-42 has been tested for extreme weather and outdoor use and offers a high-resolution ePaper screen with crisp daytime and nighttime visibility. The system's power and content are remotely managed by its cloud-based Connectpoint Asset Management System (CPAM™) from the convenience of a desktop or mobile device.



CP 42 Specifications

Active Area	42 inches
Dimensions	38"H x 28"W x 2"D
Weight	49 lbs
Resolution	2880 x 2160
Orientation	Landscape or Portrait
Screen Protection	2 layered: 3mm Tempered and 2mm Gorilla Glass 3 (anti-glare & UV stability) / IK07
Viewing Angle	Ultra-Wide 160°
Screen Color	16 level Greyscale Monochrome
Screen Illumination	Direct Light Guide
Connectivity	Wireless Cellular (4G) or WiFi or Ethernet
Operating Temperature	-20°C to 60°C
IP Rating	IP 66
Text-to-Speech	TTS capable with audio button option
Power Requirements	Ultra Low Power 12 v, Solar/LiFePo Battery, 110v Adapter
Installation Applications	Shelter, Wall, Totem, Kiosk, Custom Build

Ordering Matrix

Code	Model	Power Source	SIM Provider	Connection Type	Orientation	Text to Speech
CP	42	DC (Solar)	CS (Connectpoint)	C (Cellular Wireless) W (WIFI)	P (Portrait) L (Landscape)	Optional

Example: CP-42-DC-CS-C-P-B

King County Metro Transit Bus Stop Expansion Project
Northbound Columbia St and Alaskan Way (Stop 1558) - 61 Columbia St
Northbound Alaskan Way and S Jackson St (New Stop) - 304 Alaskan Way S/74 S Jackson St
Southbound Alaskan Way and S Jackson St (New Stop) - 401 Alaskan Way S
Jerry Roberson, (206) 263-0776
Application: December 1, 2020

RTIS Example Photos

Below are photos showing the Connectpoint e-reader real-time information system (RTIS) signs used at other transit systems' bus stops. Metro's will look the same but hung from the technology pylon in landscape orientation.



Image Sources: Connectpoint, *Solar Powered Real-time Signage, Interactivity and Smart Lighting*, Presentation, February 2019.

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Jerry Roberson, (206) 263-0776
Application: December 1, 2020

New ORCA Reader

Metro will be installing new ORCA readers systemwide starting in 2021, including at the three stations along the Waterfront. One ORCA reader will be installed in each technology pylon.

Description

- The photo below provides an example of what Metro’s new ORCA reader will look like. It is the same model used in TriMet’s system in Portland, OR.
- There will be ORCA-specific messaging and visual indicators that this is an ORCA reader, but those are still being finalized.
- The outer color will likely be yellow and will be set into the new RapidRide technology pylon so that the face of the reader is almost flush.



Image Source: TriMet, *TriMet Fares*, <https://trimet.org/fares/img/header.jpg>, 2020.

King County Metro Transit Bus Stop Expansion Project
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Jerry Roberson, (206) 263-0776
Application: December 1, 2020

Statement of Owner Consent

- This project is located entirely within Seattle Department of Transportation (SDOT) right-of-way along Alaskan Way S; therefore, a statement of owner consent from a private property owner is not applicable.
- Metro has been closely coordinating with the Office of the Waterfront/SDOT for over three years on planning for the three new RapidRide stations on the Waterfront.
- The locations of the three new RapidRide stations and the civil work to support them (e.g., foundations, conduit) have already been approved by the Office of the Waterfront.
- The design for Waterfront Seattle has already been approved by the Pioneer Square Preservation Board. This application pertains only to the above-ground elements of the stations.
- Any permits required by SDOT for installation of the station elements, traffic control, or other installation-related requirements will be obtained prior to installation.