

Columbia Blvd: Bank St to Macrum Ave, N

Phase II

Beginning of Project
Sta. "C" 106+27.58

NOTICE TO EXCAVATORS:
ATTENTION: OREGON LAW REQUIRES YOU
TO FOLLOW RULES ADOPTED BY THE
OREGON UTILITY NOTIFICATION CENTER.
THOSE RULES ARE SET FORTH IN OAR
952-001-0010 THROUGH OAR
952-001-0090. YOU MAY OBTAIN
COPIES OF THE RULES BY CALLING THE
CENTER.
RULES ARE ALSO LOCATED AT
WWW.DIGSAFELYOREGON.COM
NOTE: THE TELEPHONE NUMBER FOR
THE OREGON UTILITY NOTIFICATION
CENTER IS (503)-232-1987.

Dig  Safely.

EMERGENCY TELEPHONE NUMBERS

End of Project

Sta. "C-1" 201+67.50



			DESIGNED BY L. Williams	DATE APPROVED Feb. 2020	X REGISTERED PROFESSIONAL ENGINEER 17307PE OREGON JULY 19, 1994 LINDA M. WILLIAMS Expires: 6/30/20	APPROVALS:	 SUPERVISING ENGINEER REG. PROF. ENGR. NO. 84470PE  DIV. ENGINEER REG. PROF. ENGR. NO. 51538PE	 PORTLAND BUREAU OF TRANSPORTATION CHLOE EUDALY STEVE TOWNSEN, P.E. COMMISSIONER CITY ENGINEER	 Columbia Blvd: Bank St to Macrum Ave, N Phase II	1/4 SECTION 2023 2024
			CAD BY B. Winchcomb	DIV. ENGINEER S. Townsen						PROJECT NO. T00821
			CHECKED BY J. Joe							SHEET NO.
NO.	DATE	DESCRIPTION	APPD.							
		REVISION								

Plot Date: 3/31/2020 9:42:06 AM Filename: C:\Users\winchcomb\Desktop\CAD\T00821\Phase II\PLAN_SHEETS\SHI 01A.dgn

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	Cover Sheet
1A	Index Of Sheets
1B	Symbols And Abbreviations
1C	Index of Sheets
2A	Typical Sections
2B	Construction Details
2E-1	Horizontal Alignment Plan
2E-2	Horizontal Alignment Plan
2F-1	Elevation Detail Plan
2F-2	Elevation Detail Plan
3	Street Plan
4	Street Plan
4A	Street Profiles
5	Street Plan
5A	Street Profile
S-1	Permanent Signing and Striping Plan
S-2	Permanent Signing and Striping Plan
S-3	Permanent Signing Legends
S-4	Sign and Post Data Table
IL-1	Illumination Plans
IL-2	Illumination Plans
IL-3	Illumination Plans
IL-4	Illumination Plans
TS-1	Interconnect Plan

Standard Drg. Nos.

- P-400

Sign Placement
- P-405

Breakaway Anchor Traffic Sign Supports
- P-406

Breakaway Dome Traffic Sign Supports
- P-407

Modified Bike Rack Sign Mount
- P-410

Sign Bracket,Cap Details
- P-411

Sign Bracket,Strong-Back Details
- P-420

Street Name Sign Detail
- P-434

Pavement Markings Standard Detail Blocks
- P-435

Pavement Markings Standard Detail Blocks
-
- P-506

Asphalt Concrete Pavement Repair Adjacent To Curb
- P-507

Modified Bike Rack Sign Mount
- P-518

AC Pavement Trench Resurfacing On Busy Streets
- P-532

Curb Tight Sidewalk Partially Lowered Driveway
- P-536

Driveway Connection Detail
- P-548

Sidewalk Ramp With Planter Strip Placement Options
- P-551

Sidewalks
-
- P-601

Single Mast Arm Pole & Weld Details
- P-604(A)

Mast Arm Pole Flange Plate Details
- P-604(B)

Mast Arm Pole Base Plate Details
- P-604(C)

Mast Arm Pole Recessed Terminal Cabinet
- P-606

Signal Pole Footing & Anchor Bolts Type 1
- P-610

Base-Mounted Signal Post Footing & Type 332 Cabinet Foundation Details
- P-612

Signal Wiring Color Code
- P-622

Pedestrian Signal Mounting on Steel and Wood Poles
- P-627

Signal Equipment Pole & Mast Arm Mounted Details
- P-629

Overhead street Name and Aluminum Sign Mounting Details
- P-631

School Zone Flasher Details
- P-632

Pull Box Type A & B
- P-640

Rectangular Rapid Flash Beacon (Solar Powered) Pole Assembly Detail
- P-651

Street Lighting Cobra-Head Pole Details
- P-653-B

Street Lighting Bottle Neck Type Luminaire Pole
- P-660

Street Lighting Standard Street Light Standard Pole Footing
- P-671

Street Lighting Service Cabinet Details
- P-680

Street Lighting Pole Wiring Diagrams

RD364 Concrete Inlets Type G-1,G-2,G-2M, and G-2MA

- RD705

Islands
- RD706

Traffic Separators and Transitions
- RD710

Accessible Route Islands
- RD759

Detectable Warning Surface Details & Placement Locations

RD1010 Inlet Protection Type 2,3,6,7,10 and 11

NO.	DATE	DESCRIPTION	APPRO.		
REVISION					

DESIGNED BY	DATE APPROVED
L. Williams	Apr. 2020
CAD BY	DIV. ENGINEER
B. Winchcomb	S. Townsen
CHECKED BY	
J. Joe	

X

REGISTERED PROFESSIONAL ENGINEER

17307PE

DIGITAL SIGNATURE

OREGON

JULY 19, 1999

LINDA M. WILLIAMS

Expires 6/30/2024

APPROVALS:



SUPERVISING ENGINEER

REG. PROF. ENGR. NO. 84470PE



CITY ENGINEER

REG. PROF. ENGR. NO. 51538PE

PBOT

PORTLAND BUREAU OF TRANSPORTATION

CHLOE EUDALY

STEVE TOWNSEN, P.E.

COMMISSIONER

CITY ENGINEER



Columbia Blvd: Bank St to Macrum Ave, N Phase II

Index of Sheets

17A SECTION

2023

2024

PROJECT NO.

T00821

SHEET NO.

1A

ABBREVIATIONS

Utilities	
---TV---	Existing utility, CATV UG
Proposed utility, CATV UG	
 	Existing/proposed utility, fiber optic standpipe
---F0---	Existing utility, fiber optic UG
---F0---	Existing utility, fiber optic UG
 	Existing/proposed utility, gas meter
---G---	Existing utility, gas UG
---G---	Proposed utility, gas UG
Existing utility, gas vault	
Proposed utility, gas vault	
 	Existing/proposed utility, gas valve
 	Existing/proposed utility, pole
	Existing utility power anchor
	Existing utility, power box
Proposed utility, power box	
 	Existing/proposed utility, power manhole
 	Existing/proposed utility, power meter
---E---	Existing utility, power UG
---E---	Proposed utility, power UG
Existing utility, power vault	
Proposed utility, power vault	
 	Proposed single/double ornamental street light pole
 	Existing/proposed utility, street light
 	Existing/proposed utility, telephone manhole
 	Existing/proposed utility, telephone pedestal
---TEL---	Existing utility, telephone UG
---TEL---	Existing utility, telephone UG
	Existing utility, unknown fuel filler
	Existing utility, unknown manhole
#4	Existing utility, unknown manhole text
	Existing utility, unknown valve
---E/0---	Existing utility, wire OH
---E/0---	Proposed utility, wire OH
Vegetation	
Existing vegetation, brush	
Proposed vegetation, brush	
Existing vegetation, drip line	
Existing vegetation, edge	
Proposed vegetation, edge	
Existing vegetation, edge planter	
Proposed vegetation, edge planter	
Existing vegetation, lawn	
Proposed vegetation, lawn	
---LN---	Existing/proposed vegetation, shrub
	Existing vegetation, text
	Existing/proposed vegetation, tree
Water	
	Existing/proposed water, FDC
	Existing/proposed water, fountain
	Existing/proposed water, hydrant
	Existing/proposed water, irrigation box
	Existing/proposed water, irrigation sprinkler
---IR---	Existing water, irrigation
---IR---	Proposed water, irrigation
---M---	Existing water, main
---M---	Proposed water, main
	Existing/proposed water, manhole
	Existing/proposed water, meter
	Existing/proposed water, standpipe
	Existing/proposed water, valve
	Existing/proposed water, vault

DOT/PB01 Inlets

		Existing/proposed concrete inlet, type G-1 (RD364)
		Existing/proposed concrete inlet, type G-2 (RD364)
		Existing/proposed concrete inlet, type G-2M (RD364)
		Existing/proposed concrete inlet, type G-2MA (RD364)
		Existing/proposed concrete inlet, type CG-1 (RD366)
		Existing/proposed concrete inlet, type CG-2 (RD366)
		Existing/proposed concrete inlet, type CG-3 (RD372)
		Existing/proposed field inlet (RD374)

BES Inlets

		Existing/proposed concrete inlet (BES type Metal)
		Existing/proposed concrete inlet (BES type Concrete)
		Existing/proposed concrete inlet (BES type Beehive)
		Existing/proposed concrete inlet (BES type Metal Modified)
		Existing/proposed channel & grate inlet (BES type channel & grate)

SECTION & DETAIL IDENTIFICATION

Section Number

2

2A-2

Sheet on which section is shown

Section

2

2A-2

Sheet on which section is from

Typical Section Cut Section drawing

Section Identification

Detail Letter

A

2A-2

Sheet on which detail is shown

Detail Letter

A

2A-2

Sheet on which detail is from

Typical Detail Call-outs Detail drawing

General Detail Identification

See Std. Drg. No. P-xxx

Standard Drawing No.

P-xxx

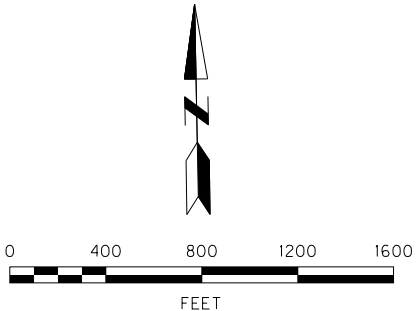
Typical Detail Call-out Detail drawing

City of Portland

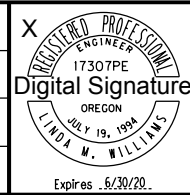
Standard Detail Identification

AC	Asphaltic Concrete	Nom	Nominal
Al	Alignment	Norm	Normal
Aggr	Aggregate	N	North
Appr	Approach	NE	Northeast
Approx	Approximate	NW	Northwest
Asph	Asphalt	NWE, CO	Northwestern Energy
AP	As Painted	NTS	Not To Scale
ASTM	American Society of Testing Materials	No	Number
Ave	Avenue	OPS	Operations
Bkfl	Backfill	OL	Overhead Lines
BM	Bench Mark	ODOT	Oregon Department of Transportation
Bkwy	Bikeway	OF	Outfall
Bit	Bituminous	PNB	Pacific Northwest Bell Co.
BH	Bore Hole	PM	Parking Meter or Power Meter
Bott	Bottom	Pvmt	Pavement
Bdry	Boundary	Ped	Pedestrian
Br	Bridge	Perf	Perforated
Bldg	Building	Perm	Permanent
BES	Bureau of Environmental Services	Ph	Phase
BWW	Bureau of Water Works	PL	Place
CED	Curb Elevation Detail	Plt	Planter Tub
CL	Centerline or Clearance	P	Power or Signal Pole
CLSM	Concrete Low Strength Mix	PC	Point of Curvature
C-L FC	Chain-Link Fence	PCC	Portland Concrete Cement
CI	Cast Iron	or Point Of Compound Curvature	
CO	Clean Out or County	PCR	Point Of Curb Return
Comp	Compacted	PGE	Portland General Electric
Conc	Concrete	PI	Point Of Intersection
Conn	Connection	POWC	Point of Vertical Curve
Const	Construct	PP	Power Pole
Cont'd	Continued	PRC	Point of Reverse Curvature
Cr	Creek	PT	Point of Tangent
Xing	Crossing	PT&T	Public Telephone & Telegraph
CP	Control Point	PVC	Point of Vertical Curve or Polyvinyl Chloride
CMP	Corrugated Metal Pipe	PWI	Point Of Vertical Intersection
CSP	Concrete Sewer Pipe	Lb	Pound
Crse	Course	PEP	Private Energy Partners
CY	Cubic Yard	Prof	Profile
Culv	Culvert	QC	Quarter Section Corner
D	Delta or Diameter	QWEST	Qwest Communications
Dia	Diameter	R	Radius
Distr	Distribution	RR	Railroad
Dr	Drive or Drainage	Ref	Reference
Dwy	Driveway	Rebar	Reinforcing Bar, Steel
Drq	Drawing	Reinf	Reinforce
DS	Downspout	RCP	Reinforced Concrete Pipe
Dwg	Drawing	Reinst	Reinstall
Esmt	Easement	Replace	Replacement
E	East	Req'd	Required
EB	Electric Box	Rev	Revise or Reverse
Elec	Electric or Electrical	RPT	Reference Point
Elev	Elevation	R/W	Right of Way
Emb	Embankment	RSR	Riser
Equa	Equation	Rt	Right
Exc	Excavation	Rdwy	Roadway
Exist	Existing	RD	Roof Drain at Curb
Ex	Extra	Salv	Salvage
Exp	Exposure	San	Sanitary
Ft	Feet, Foot or Font	Sec	Section
Fin	Finished	Sed	Sedimentation
FH	Fire Hydrant	SC	Section Corner
FL	Flow Line	Seg	Segment
FP	Flag Pole	Swr	Sewer
Fdn	Foundation	Swk	Sidewalk
Frwy	Freeway	S	Slope, Sewer or South
FF	Fuel Filler Cap or Finished Floor	Sht	Sheet
Galv	Galvanized	Shts	Sheets
GAS	Gas Main	Shldr	Shoulder
GM	Gas Meter	SE	Southeast
GS	Gas Standpipe	SW or SW	Southwest or Sidewalk
GV	Gas Valve	Sq Ft	Square Feet
Gen	General	Std	Standard
gb	Grade Break	Sta	Station
GR	Guardrail	Steam	Steam Pressurized Utility
g	Gutter Elevation	SH	Steel
GA	Guy Anchor	SS	Storm Sewer
GP	Guy Pole	SL	Street Light or Slope
H	Height	Str	Street
HDPE	High-density polyethylene	Str	Structure of Strength
HMAC	Hot-Mixed Asphalt Concrete	Surf	Surfacing
Horiz	Horizontal	SU	Sump
HR	Horse Ring	T	Tangent Length or Telephone
Hwy	Highway	TB	Telephone Booth, Tel. Box or Traffic Box
Incl	Include	tc	Top of Check Dam
Inst	Install	Tel	Telephone
IE	Invert Elevation	Temp	Temporary
IR	Iron Rod	TBM	Temporary Bench Mark
Irrig	Irrigation	TCI	Telecommunications Inc.
Jct	Junction	Ter	Terrace
J	Junction Box	Thkn	Thickness
K	Kelvin	tc or TC	Top of Curb, or Traffic Control
KM	Kilometer	TP	Top of Pavement or Telephone Pole
Lt	Left	TCP	Topographic Control Points or Traffic Control Plan
Lv	Level	Topo	Topography
LP	Light Pole	Tracks	Tracks, Buried Streetcar
Lin	Linear	Tr	Trench
Loc	Location	TV	Television
L	Loop	Typ	Typical
Lum	Luminaire	U	Unknown
MH	Manhole	UG	Underground
Matl	Material	UV	Unknown Valve
Med	Median	UVC	Unknown Vertical Conduit
M	Meter	Var	Varies of Variable
Max	Maximum	Vert	Vertical
Mbx	Mailbox	W	West, Width or Water
Mhr	Metal Handrail	WATER	Water Main
MMAC	Minor Hot Mixed Asphalt Concrete	WF	Water Faucet or Hose Bibb
Min	Minimum	WM	Water Meter or Water Main
Mix	Mixture	WT	Water Tower or Weight
Mod	Modified	WV	Water Valve
Multi	Multiple	Yd	Yard
MWAC	Minor Warm-Mixed Asphalt Concrete		

[illegible]

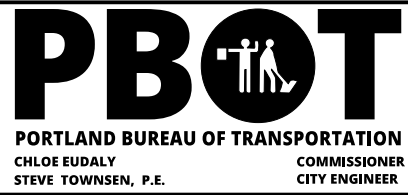
[illegible]

DESIGNED BY <i>L. Williams</i>	DATE APPROVED <i>Feb. 2020</i>
CAD BY <i>B. Winchcomb</i>	DIV. ENGINEER <i>S. Townsen</i>
CHECKED BY <i>J. Joe</i>	



APPROVALS:

	
SUPERVISING ENGINEER	REG. PROF. ENGR. NO. 84470PE
	
CITY ENGINEER	REG. PROF. ENGR. NO. 51538PE

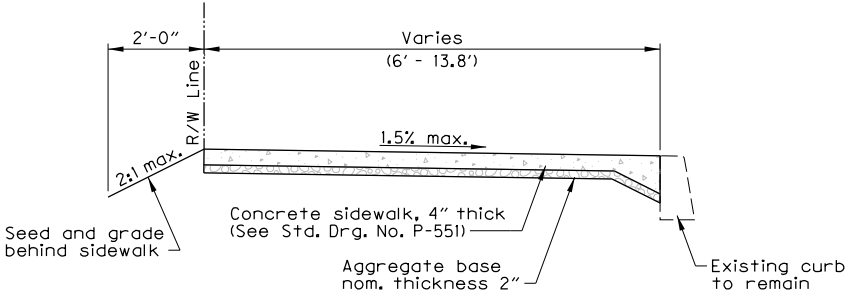


*Columbia Blvd: Bank St to Macrum Ave, N
Phase II*

Sheet Layout Plan

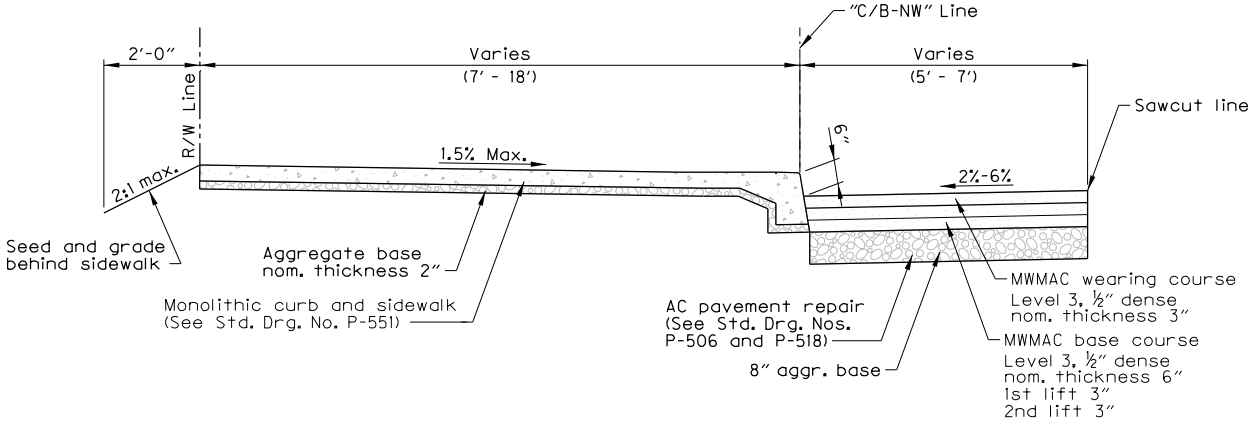
1/4 SECTION 2023 2024
PROJECT NO. T00821
SHEET NO. 1C

Plot Date: 2/12/2020 9:34:29 AM Filename: S:_LLDesign\T00821 - Columbia Blvd - Bank St to Macrum Ave\NCAD\Phase II\PLAN_SHEETS\SHT_02A_TYPICAL_SECTIONS\TYPICAL_SECTION_SHT_02A.dgn



Sta. "C" 106+27.58 to 106+54.00

Typical Section 1
Scale: 1/2" = 1'-0"

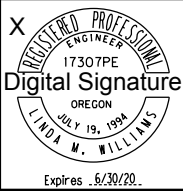


Typical Section 2
Scale: 1/2" = 1'-0"

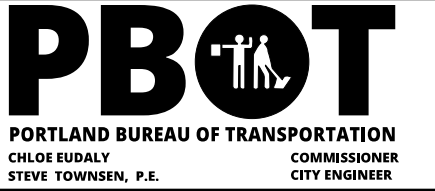
WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

NO.	DATE	DESCRIPTION	APPD.
		REVISION	

DESIGNED BY L. Williams	DATE APPROVED Feb. 2020
CAD BY B. Winchcomb	DIV. ENGINEER S. Townsen
CHECKED BY J. Joe	



APPROVALS:	
<i>Paul B. Antigen</i> SUPERVISING ENGINEER	REG. PROF. ENGR. NO. 84470PE
<i>Steve Townsen</i> CITY ENGINEER	REG. PROF. ENGR. NO. 51538PE



Columbia Blvd: Bank St to Macrum Ave, N
Phase II

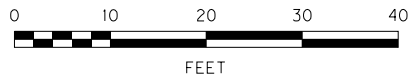
Typical Sections

1/4 SECTION 2023 2024
PROJECT NO. T00821
SHEET NO. 2A

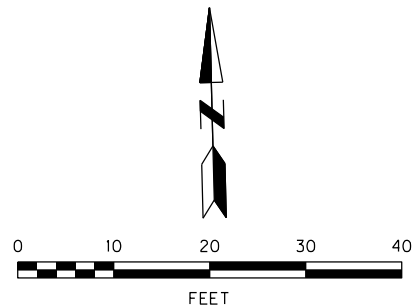


- 1 Install tree protection fencing (TPF) prior to any ground disturbing activity. Inspection and approval of fencing by the urban forestry tree inspector is required prior to commencement of work, including equipment and materials staging and mobilization.
- 2 Call 823-TREE (8733) to schedule the tree protection inspection once the TPF is installed.
- 3 No entry is allowed into tree protection areas for the duration of the project unless permitted by the urban forestry tree inspector.
- 4 Tree protection fencing shall not be moved, altered or removed throughout the duration of the project.
- 5 Where tree roots are encountered or anticipated, excavation shall be completed with hand tools carefully without damage (i.e. vac truck, air spade, etc.).
- 6 Tree roots over 2-inch diameter may not be cut or damaged without a root pruning inspection and permit issued by the urban forestry tree inspector. Call the assigned tree inspector or 823-TREE (8733) for root inspection permitting specific to this project.
 - a. Inspection and issuance of a permit may take up to 48 hours.
 - b. If approved, roots must be properly pruned using approved arboricultural.
- 7 Field adjustments or alternative methods may be needed if large roots are encountered. Contact the assigned tree inspector to discuss.
- 8 Trees within the limits of disturbance designated to be protected will not be removed. Contractor is directed to complete cut and fill operations with care next to these trees.
- 9 Maintain fencing throughout the entire project. No access is permitted within fenced areas through the duration of the project unless otherwise stated in the tree protection plan.

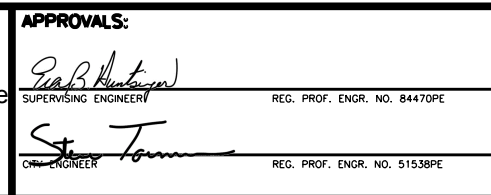
			DESIGNED BY L. Williams	DATE APPROVED Feb. 2020		APPROVALS:  SUPERVISING ENGINEER REG. PROF. ENGR. NO. 84470PE  CITY ENGINEER REG. PROF. ENGR. NO. 51538PE			Columbia Blvd: Bank St to Macrum Ave, N Phase II	174 SECTION 2023 2024
			CAD BY B. Winchcomb	DIV. ENGINEER S. Townsen						PROJECT NO. T00821
			CHECKED BY J. Joe							SHEET NO. 2B
NO.	DATE	DESCRIPTION	APPD.							
REVISION										



				DESIGNED BY L. Williams	DATE APPROVED Feb. 2020	X REGISTERED PROFESSIONAL ENGINEER 17307PE OREGON JULY 19, 1994 LINDA M. WILLIAMS Expires 6/30/20.	APPROVALS:	PB OT PORTLAND BUREAU OF TRANSPORTATION CHLOE EUDALY STEVE TOWNSEN, P.E. COMMISSIONER CITY ENGINEER	CITY OF PORTLAND OREGON 1851	Columbia Blvd: Bank St to Macrum Ave, N Phase II	174 SECTION 2023 2024
				CAD BY B. Winchcomb	DIV. ENGINEER S. Townsen		Chad B. Montez SUPERVISING ENGINEER			REG. PROF. ENGR. NO. 84470PE	PROJECT NO. T00821
				CHECKED BY J. Joe			Steve Townsen CITY ENGINEER			REG. PROF. ENGR. NO. 51538PE	SHEET NO.
NO.	DATE	DESCRIPTION		APPD.							
REVISION											



DESIGNED BY <i>L. Williams</i>	DATE APPROVED <i>Apr. 2020</i>
CAD BY <i>B. Winchcomb</i>	DIV. ENGINEER <i>S. Townsen</i>
CHECKED BY <i>J. Joe</i>	



Horizontal Alignment Plan

174 SECTION
2023
2024

PROJECT NO.
T00821

SHEET NO.
2E-2



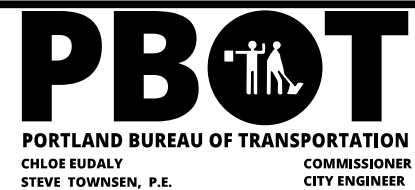
NO.	DATE	DESCRIPTION	APPD.
		REVISION	

DESIGNED BY <i>L. Williams</i>	DATE APPROVED <i>Apr. 2020</i>
CAD BY <i>B. Winchcomb</i>	DIV. ENGINEER <i>S. Townsen</i>
CHECKED BY <i>J. Joe</i>	



APPROVALS:

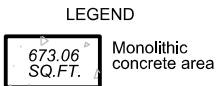
 SUPERVISING ENGINEER	REG. PROF. ENGR. NO. 84470PE
 CHIEF ENGINEER	REG. PROF. ENGR. NO. 5153RPF



*Columbia Blvd: Bank St to Macrum Ave, N
Phase II*

Elevation Detail Plan

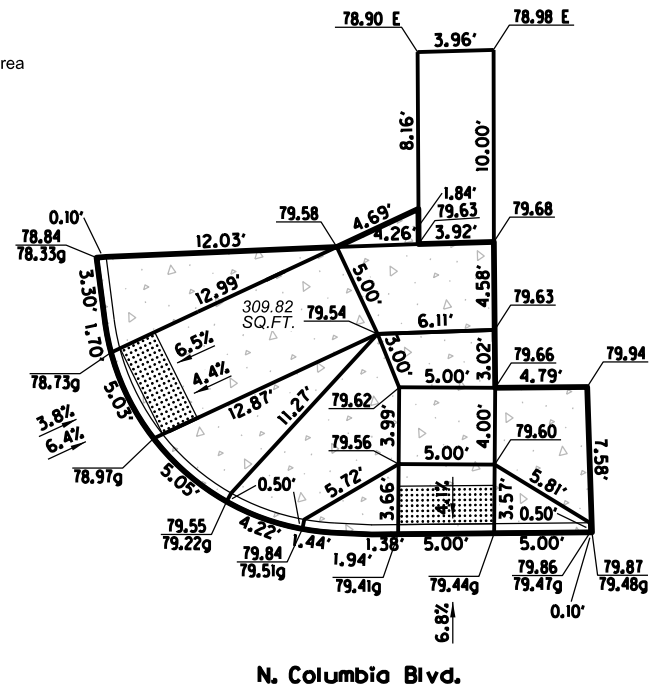
74 SECTION
2023
2024
PROJECT NO.
T00821
SHEET NO.
2F-1



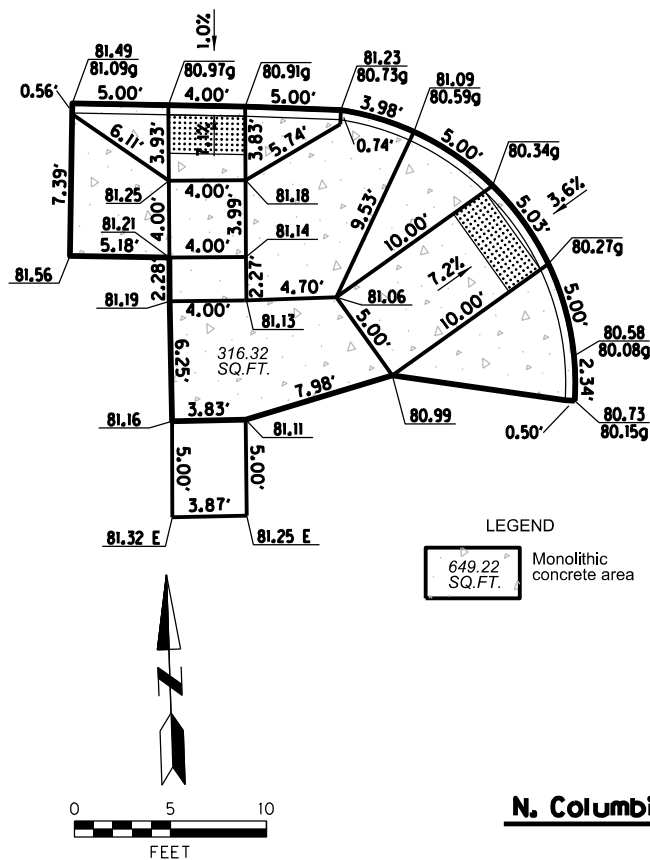
N. Oregonian Ave.

Plan

N. Columbia Blvd. at N. Oregonian Ave.



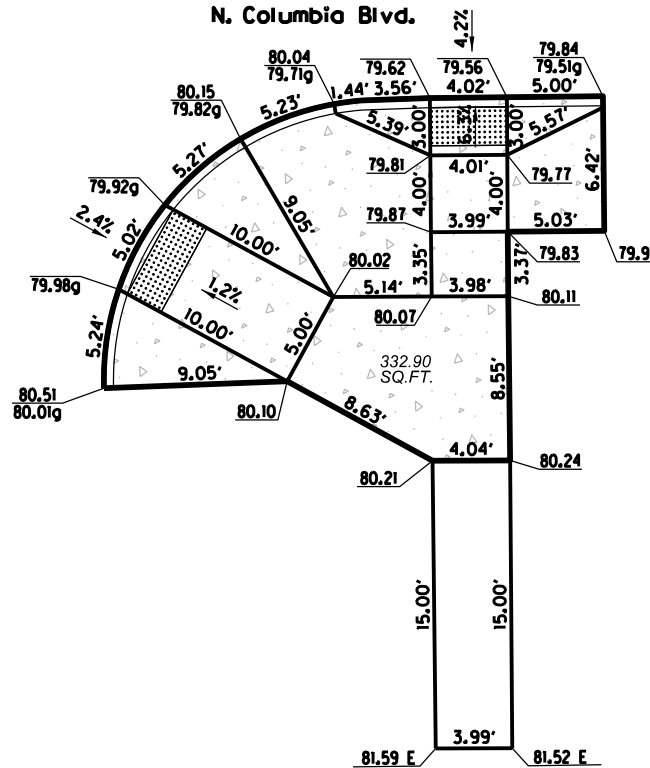
N. Columbia Blvd.



N. Oregonian Ave.

Plan

N. Columbia Blvd. at N. Oregonian Ave.



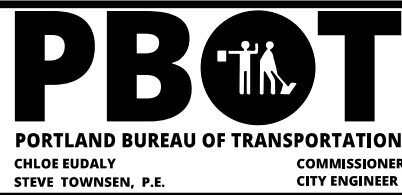
NO.	DATE	DESCRIPTION	APPROV.
		REVISION	

DESIGNED BY <i>L. Williams</i>	DATE APPROVED <i>Apr. 2020</i>
CAD BY <i>B. Winchcomb</i>	DIV. ENGINEER <i>S. Townsen</i>
CHECKED BY <i>J. Joe</i>	



APPROVALS:

 SUPERVISING ENGINEER	REG. PROF. ENGR. NO. 84470PE
 CHIEF ENGINEER	REG. PROF. ENGR. NO. 51538PE

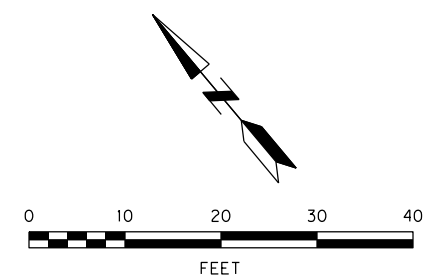
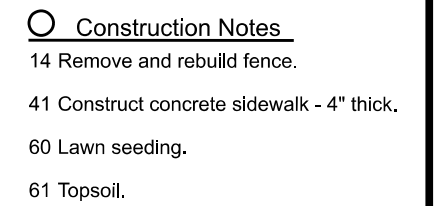


*Columbia Blvd: Bank St to Macrum Ave, N
Phase II*

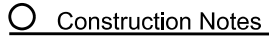
Elevation Detail Plan

174 SECTION
2023
2024
PROJECT NO.
T00821
SHEET NO.
2F-2

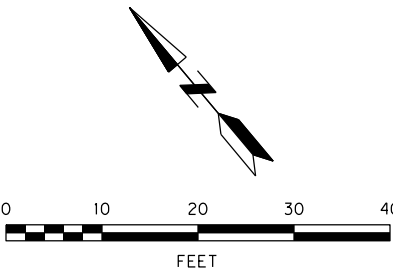
Plot Date: 3/31/2020 9:42:07 AM
Filename: C:\Users\bwinchcomb\Desktop\CAD\T0082\Phase 02F-02 ELEVATION DETAIL PLAN\T0082\T0082_PLOT_SHT_02F-02.dgn



			DESIGNED BY L. Williams	DATE APPROVED Apr. 2020		APPROVALS:  SUPERVISING ENGINEER REG. PROF. ENGR. NO. 84470PE  CHIEF ENGINEER REG. PROF. ENGR. NO. 51538PE	 PORTLAND BUREAU OF TRANSPORTATION CHLOE EUDALY STEVE TOWNSEN, P.E. COMMISSIONER CITY ENGINEER	 Columbia Blvd: Bank St to Macrum Ave, N Phase II Street Plan	174 SECTION 2023 2024
			CAD BY B. Winchcomb	DIV. ENGINEER S. Townsen					PROJECT NO. T00821
			CHECKED BY J. Joe						SHEET NO. 3
NO.	DATE	DESCRIPTION	APPRO.						
REVISION									



- 3 Install inlet protection - 5.
See Std. Drg. No. RD1010.
- 3 Save tree - 2.
- 13 Install orange plastic tree protection fence prior to beginning any work. See Sht. 2B.
- 16 Remove sign and post - 2.
- 19 Remove inlet.
- 41 Construct concrete sidewalk - 4 in. thick.
- 42 Construct standard curb.
- 43 Construct monolithic curb and sidewalk.
See Std. Drg. No. P-551.
- 48 Construct AC pavement repair.
See Std. Drg. No. P-506 and P-518.
- 50 Adjust manhole (minor) - 1.
- 52 Construct Type "C" mountable island, 6" exposure.
See Std. Drg. Nos. RD705 and RD710.
- 53 Install concrete traffic separator.
Per ODOT Std. Drg. No. RD706.
- 55 Construct monolithic sidewalk ramp. See Sheet 2F-1.
- 57 Construct Type G-2 inlet - 1.
See ODOT Std. Drg. No. RD364.
- 59 Connect to existing inlet lead. 12" pipe with flexible coupling with full-width stainless steel band or concrete closure collar.
If proposed inlet lead has less than 1.5' vertical clearance from existing water mains, a site specific utility protection plan will be required.
- 60 Install lawn seeding.
- 61 Install topsoil.
- 67 22.5 degree PVC bend, ASTM D3034 SDR 35.
- 68 Install 12" PVC pipe - 5'.
- 69 Install 10" PVC pipe - 9'.
- 70 Contractor to reconnect existing roof drain into new catch basin.

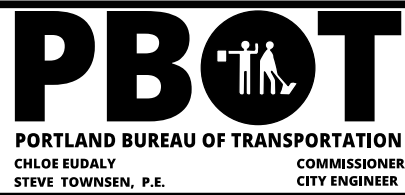
[illegible]

DESIGNED BY <i>L. Williams</i>	DATE APPROVED <i>Apr. 2020</i>
CAD BY <i>B. Winchcomb</i>	DIV. ENGINEER <i>S. Townsen</i>
CHECKED BY <i>J. Joe</i>	



APPROVALS:

 SUPERVISING ENGINEER	REG. PROF. ENGR. NO. 84470PE
 CHIEF ENGINEER	REG. PROF. ENGR. NO. 51538PE



*Columbia Blvd: Bank St to Macrum Ave, N
Phase II*

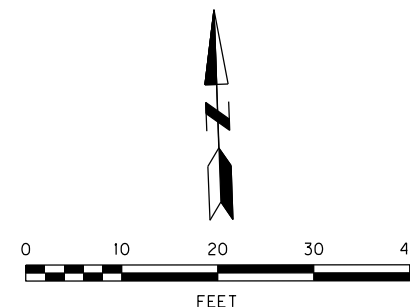
Street Plan

174 SECTION
2023
2024

PROJECT NO.
T00821

SHEET NO.
4

			DESIGNED BY L. Williams	DATE APPROVED Apr. 2020		APPROVALS:  SUPERVISING ENGINEER REG. PROF. ENGR. NO. 84470PE  CIVIL ENGINEER REG. PROF. ENGR. NO. 51538PE			Columbia Blvd: Bank St to Macrum Ave, N Phase II	17A SECTION 2023 2024 PROJECT NO. T00821 SHEET NO. 4A
			CAD BY B. Winchcomb	DIV. ENGINEER S. Townsen						
			CHECKED BY J. Joe							
NO.	DATE	DESCRIPTION	APPD.							
REVISION										



174 SECTION
2023
2024
PROJECT NO.
T00821
SHEET NO.
5

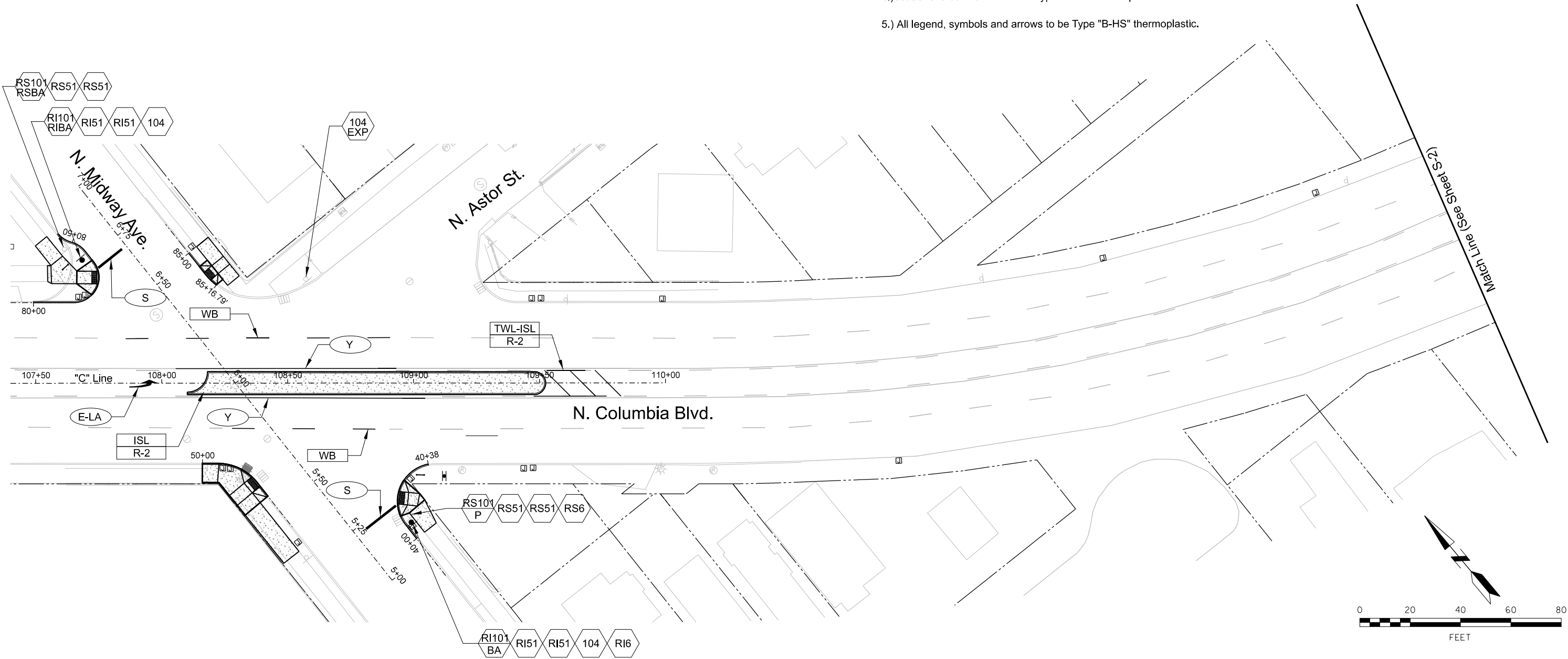


																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					</
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

- ⬡

Signing Notes:
- 1.) Refer to traffic sign bubble legend shown on sheet S-3.
- 2.) Refer to traffic sign number legend shown on sheet S-3.
- ⬢

Striping Notes:
- 1.) Remove all conflicting striping and pavement markings.
- 2.) Refer to pavement marking standard detail blocks shown on Std. Drg. Nos. TM500, TM503, P-434, and P-435.
- 3.) All longitudinal line work to be non-profile, 90 mil., extruded thermoplastic.
- 4.) All transverse line work to be Type "B-HS" thermoplastic.
- 5.) All legend, symbols and arrows to be Type "B-HS" thermoplastic.



NO.	DATE	DESCRIPTION	APPD.
REVISION			

DESIGNED BY J. Finkle	DATE APPROVED Feb. 2020
CAD BY C. Shearer	
CHECKED BY W. Cawley	

X

REGISTERED PROFESSIONAL ENGINEER
19146PE
OREGON
JULY 15, 1997
WENDY S. PETERS CANNETT

Digital Signature

Expires 12/31/21

APPROVALS:	
CITY TRAFFIC ENGINEER	REG. PROF. ENGR. NO. 16660PE
CITY ENGINEER	REG. PROF. ENGR. NO. 51538PE

PBOT
PORTLAND BUREAU OF TRANSPORTATION
CHLOE EUDALY
STEVE TOWNSEN, P.E.

COMMISSIONER
CITY ENGINEER



Columbia Blvd: Bank St to Macrum Ave, N
Phase II

Signing and Striping Plan

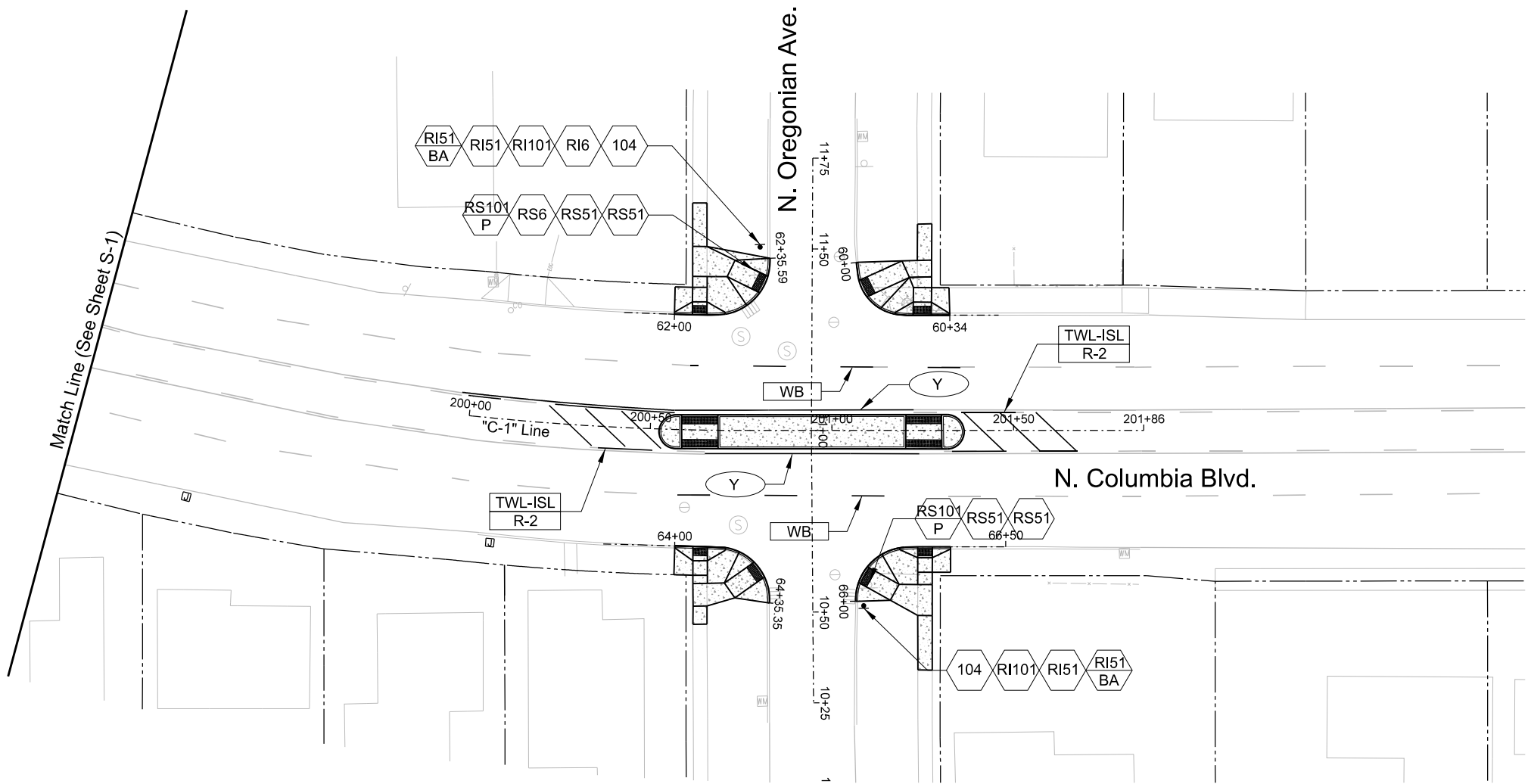
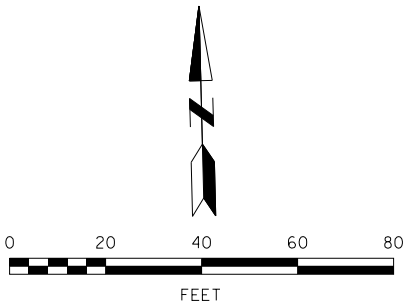
1/4 SECTION 2023 2024
PROJECT NO. T00821
SHEET NO. S-1

Signing Notes:

- 2.) Refer to traffic sign number legend shown on sheet S-3.

Striping Notes:

- 1.) Remove all conflicting striping and pavement markings.
- 2.) Refer to pavement marking standard detail blocks shown on Std. Drg. Nos. TM500, TM503, P-434, and P-435.
- 3.) All longitudinal line work to be non-profile, 90 mil., extruded thermoplastic.
- 4.) All transverse line work to be Type "B-HS" thermoplastic.
- 5.) All legend, symbols and arrows to be Type "B-HS" thermoplastic.

[illegible]

Plot Date: 2/12/2020 9:34:36 AM Filename: S:_L\Design\T00821 - Columbia Blvd - Bank St to Macrum Ave, N\CAD\Phase II\PLAN_SHEETS\SH T S-03 PERMANENT SIGNING LEGEND\PLOT_SHT_S-03.dgn

 Install new sign (N)

 Install new sign (N) on sign support (M)

 Remove existing sign(N)

 Remove existing sign(N) and sign support (M)

 Remove existing sign (N) and maintain and protect existing sign support (M)

Denotes Existing Sign

N = Sign Number. See "Traffic Signs" Legend for the numbers.

M = Material for Pole or Post

Material Options are:

BA = Breakaway Anchor

BD = Breakaway Dome

P = Pipe Post

MB = Modified Bike Rack

SP = Signal Pole

UP = Utility Pole

W = Wood Post



Traffic Sign Number Legend



R6100
R5-2
24" X 24"
Sign No. 6



G5501
C.O.P.
Varies x 8"
Sign No. 51



R1010
R1-1
30" X 30"
Sign No. 101



R3020
R3-2
24" X 24"
Sign No. 104

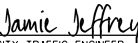
NO.	DATE	DESCRIPTION	APPD.
		REVISION	

DESIGNED BY	J. Finkle	DATE APPROVED	Feb. 2020
CAD BY	C. Shearer		
CHECKED BY	W. Cawley		

X



Digital Signature

APPROVALS:	
	REG. PROF. ENGR. NO. 16660PE
	REG. PROF. ENGR. NO. 51538PE



PORTLAND BUREAU OF TRANSPORTATION

CHLOE EUDALY

STEVE TOWNSEN, P.E.

COMMISSIONER

CITY ENGINEER



Columbia Blvd: Bank St to Macrum Ave, N
Phase II

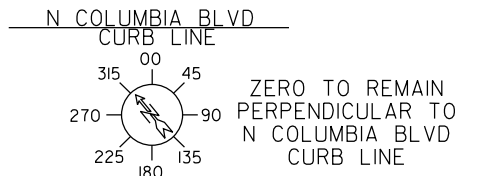
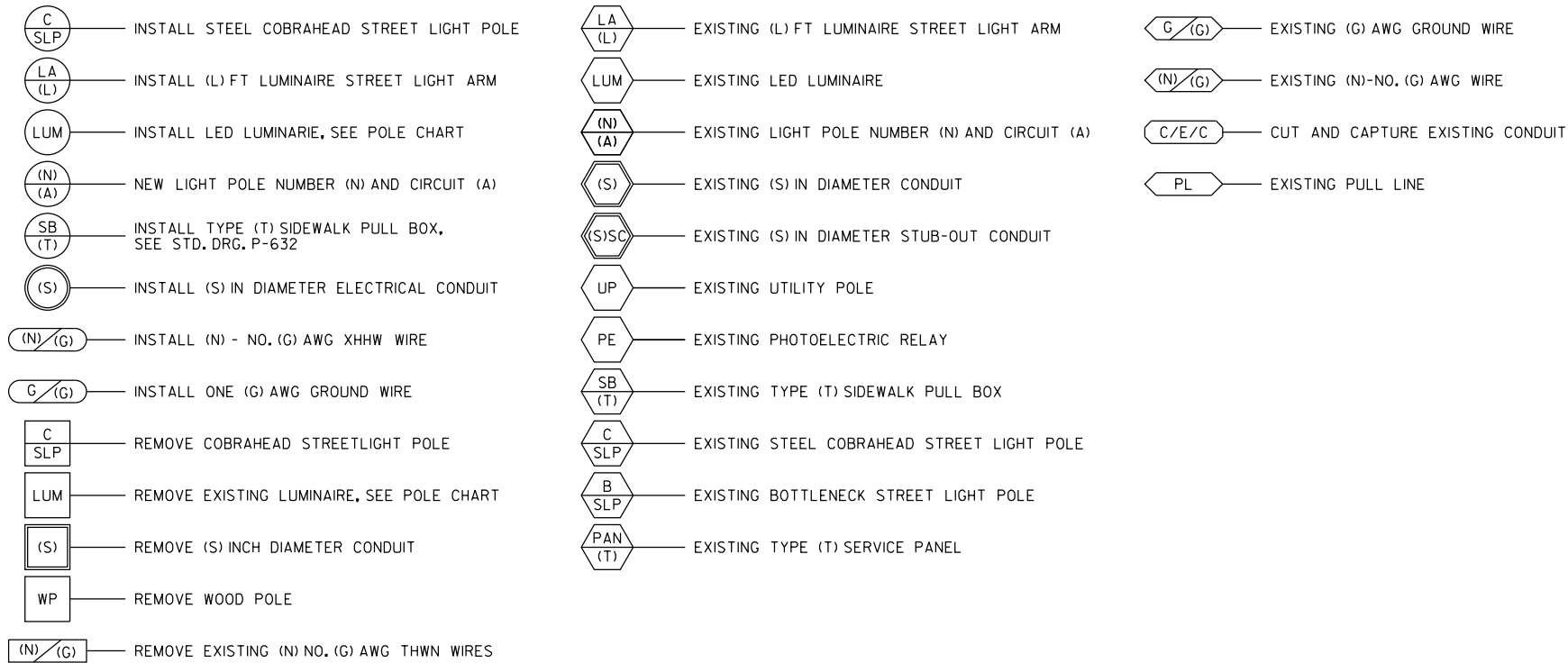
Permanent Signing Legends

1/4 SECTION	2023 2024
PROJECT NO.	T00821
SHEET NO.	S-3

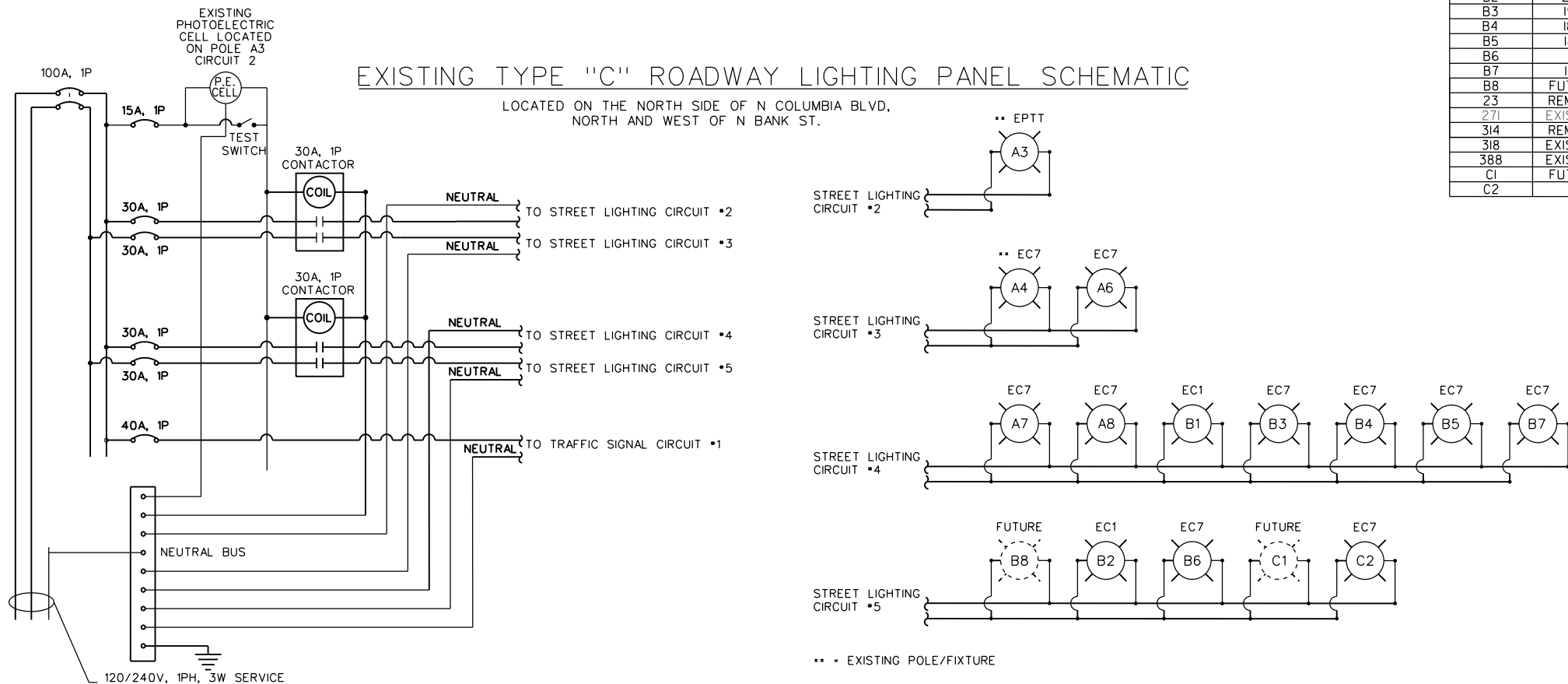
1/ IF SIGN LOCATION IS IN CONFLICT WITH OR BLOCKED BY EXISTING STREET FEATURES CONTACT THE ENGINEER PRIOR TO INSTALLATION	2/ DISTANCE REFERENCED FROM THE NEW STOP BAR LOCATIONS ON N COLUMBIA EXCEPT FOR NEW SIGNS ON BANK ST WHICH ARE MEASURED FROM THE NEAREST FACE OF CURB ON N. MIDWAY
---	--

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

LEGEND



POLE NO.	LUMINAIRE ARM	HAND HOLE	MOUNTING HEIGHT	XY COORD.	NEW LUMINAIRE DETAILS	DISTRIBUTION TYPE	CIRCUIT NUMBER
A3	-	EXISTING	EXISTING	7629835.71',711619.89'	EXISTING	EXISTING	C-2
A4	EXISTING	EXISTING	EXISTING	7629805.40',711557.70'	EXISTING	EXISTING	C-3
A5	I80	270	35	7629600.72',711816.65'	92W 9600 LUMENS	TYPE 3	C-6
A6	0	90	35	7629748.56',711603.73'	92W 9600 LUMENS	TYPE 3	C-3
A7	I80	270	35	7629910.24',711554.34'	92W 9600 LUMENS	TYPE 3	C-4
A8	I80	270	35	7629993.15',711486.82'	I40W I3200 LUMENS	TYPE 3	C-4
28	REMOVE	REMOVE	REMOVE	7629609.28',711815.07'	REMOVE	REMOVE	C-6
86	EXISTING	-	EXISTING	7629906.57',711629.20'	EXISTING	EXISTING	PGE
317	REMOVE	-	REMOVE	7629909.41',711468.39'	REMOVE	REMOVE	PGE
I413	0	-	35	7629649.81',711674.14'	92W 9600 LUMENS	TYPE 3	C-6
B1	225	315	30	7630149.16',711377.92'	40W 4500 LUMENS	TYPE 3	C-4
B2	225	315	30	7630145.75',711236.97'	29W 2900 LUMENS	TYPE 2	C-5
B3	I90	315	35	7630233.08',711286.83'	92W 9600 LUMENS	TYPE 3	C-4
B4	I80	270	35	7630282.76',711243.98'	92W 9600 LUMENS	TYPE 3	C-4
B5	I80	270	35	7630427.17',711444.56'	92W 9600 LUMENS	TYPE 3	C-4
B6	0	90	35	7630312.18',71134.27'	92W 9600 LUMENS	TYPE 3	C-5
B7	I80	270	35	7630508.03',71110.64'	92W 9600 LUMENS	TYPE 3	C-4
B8	FUTURE	FUTURE	FUTURE	-	FUTURE	FUTURE	C-5
23	REMOVE	-	REMOVE	7630378.73',711091.45'	REMOVE	REMOVE	PGE
271	EXISTING	-	EXISTING	7630105.35',711298.29'	92W 9600 LUMENS	TYPE 2	PGE
314	REMOVE	-	REMOVE	7630235.18',711194.72'	REMOVE	REMOVE	PGE
318	EXISTING	-	EXISTING	7630035.64',711362.91'	92W 9600 LUMENS	TYPE 3	PGE
388	EXISTING	-	EXISTING	7630566.40',711023.03'	92W 9600 LUMENS	TYPE 3	PGE
C1	FUTURE	FUTURE	FUTURE	-	FUTURE	FUTURE	C-5
C2	0	90	35	7630649.10',711009.06'	92W 9600 LUMENS	TYPE 3	C-5



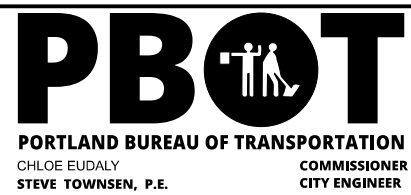
NO.	DATE	DESCRIPTION	APPD.
		REVISION	

DESIGNED BY <i>J. Shrader</i>	DATE APPROVED <i>Feb. 2020</i>
CAD BY <i>J. Shrader</i>	DIV. ENGINEER <i>P. Koonce</i>
CHECKED BY <i>C. Radosta</i>	INTER. NUMBER



APPROVALS:

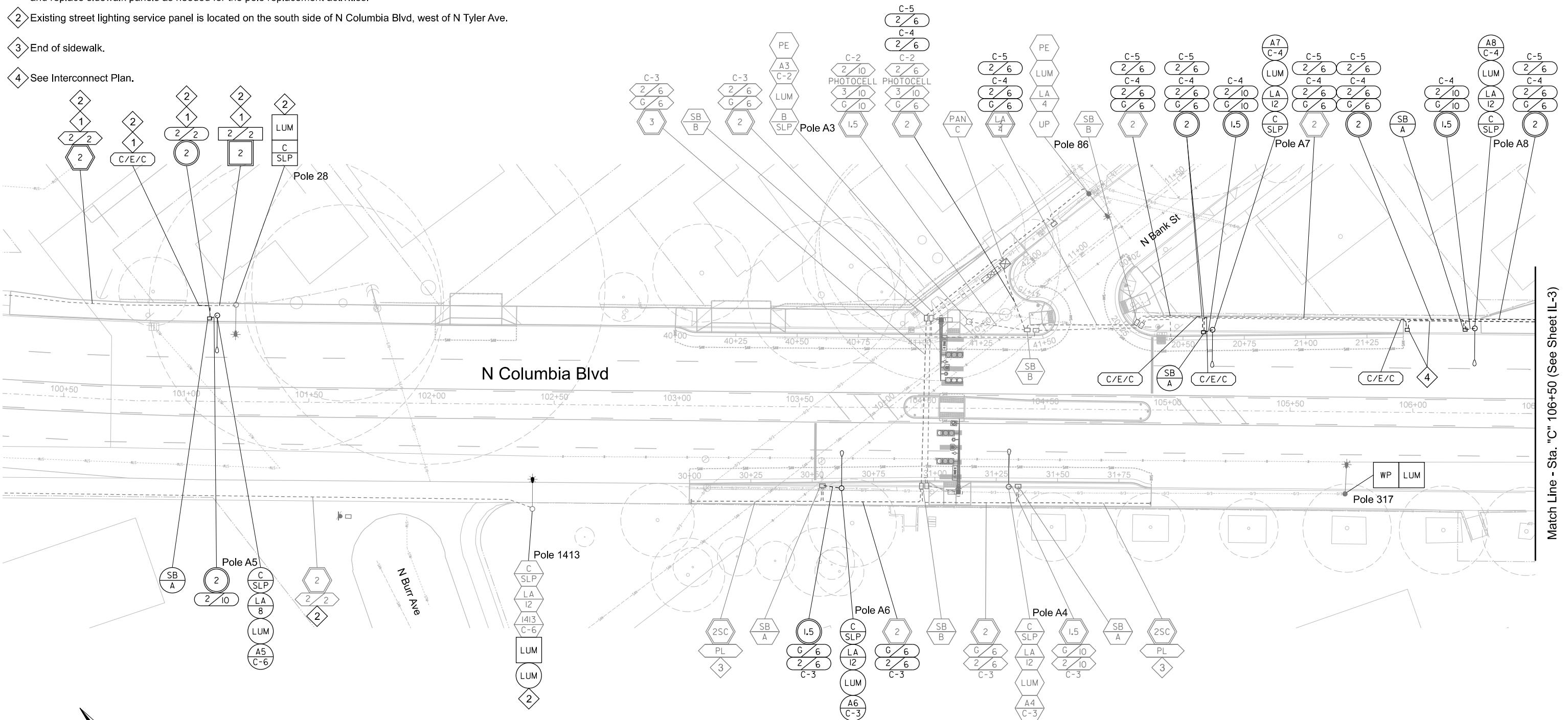
 PRINCIPAL ENGINEER	REG. PROF. ENGR. NO. 53882PE
 CIVIL ENGINEER	REG. PROF. ENGR. NO. 51538PE



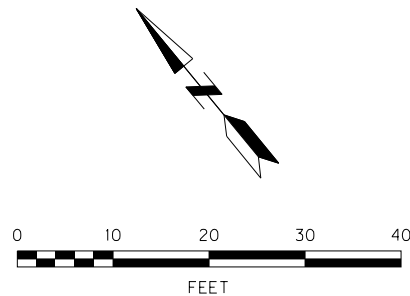
*Columbia Blvd: Bank St to Macrum Ave, N
Phase II*

Illumination Plans

- 1 Cut and intercept existing 2" conduit. Pull existing #2 wires back and relocate into new 2" conduit to pole A5. Remove and replace sidewalk panels as needed for the pole replacement activities.
- 2 Existing street lighting service panel is located on the south side of N Columbia Blvd, west of N Tyler Ave.
- 3 End of sidewalk.
- 4 See Interconnect Plan.

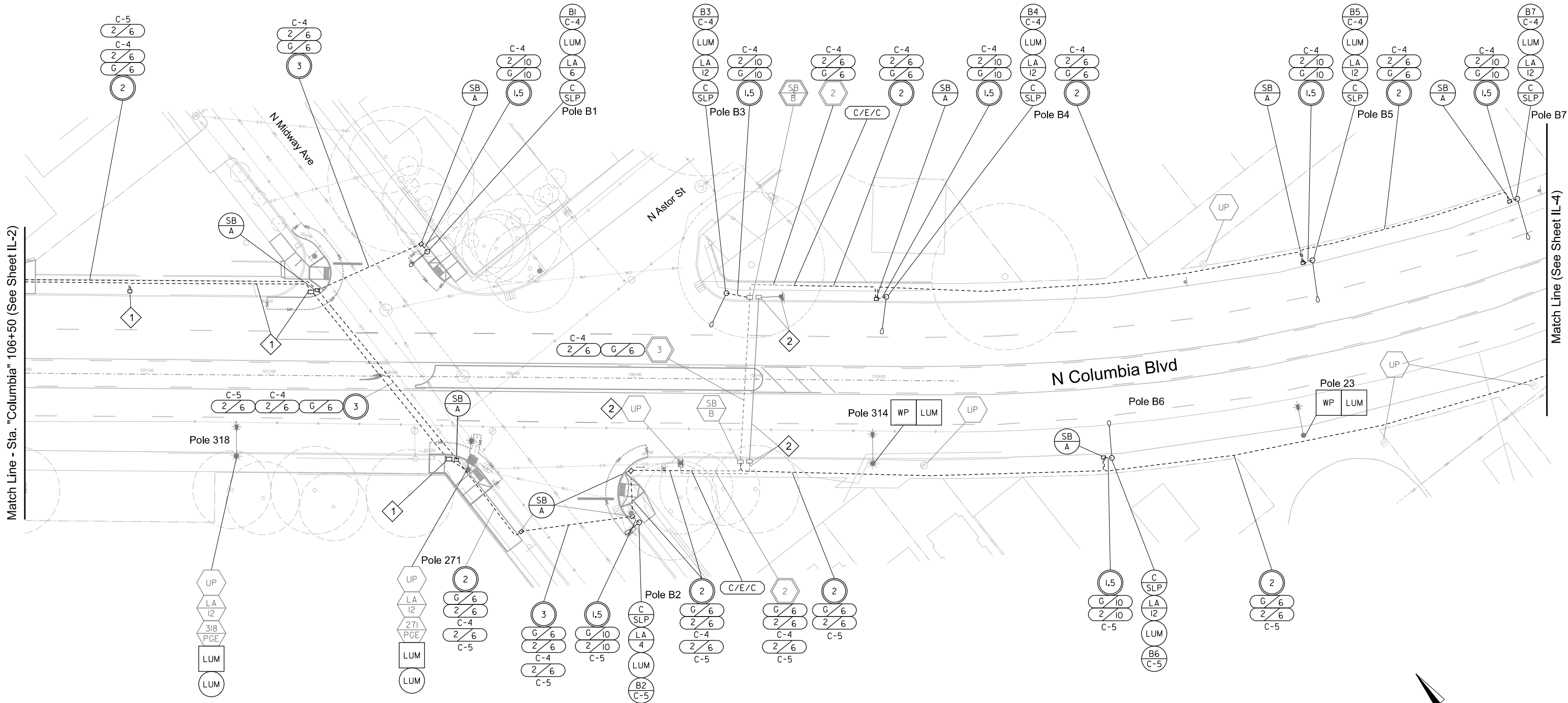


- Where electrical conduits will be installed by directional drilling near water mains, pothole to verify depth of cover prior to starting any directional drilling work. Contact Roy Martinez at 503-823-8311 at least 48 City of Portland working hours in advance of potholing any water facility to obtain Portland Water Bureau Inspection assistance.
- Where electrical conduits will be installed via open trench construction and will pass under existing water mains, a site specific UPP will be required for protecting and maintaining service in water mains.

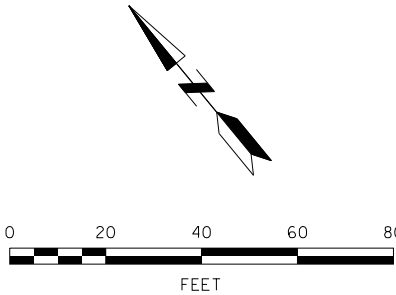


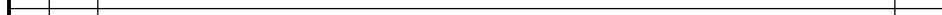
			DESIGNED BY J. Shrader	DATE APPROVED Feb. 2020		APPROVALS:  REG. PROF. ENGR. NO. 53882PE  REG. PROF. ENGR. NO. 51538PE	 PORTLAND BUREAU OF TRANSPORTATION CHLOE EUDALY STEVE TOWNSEN, P.E.	 COLUMBIA BLVD: BANK ST TO MACRUM AVE, N Phase II Illumination Plans	174 SECTION 2023 2024
			CAD BY J. Shrader	DIV. ENGINEER P. Koonce					PROJECT NO. T00821
			CHECKED BY C. Radosta	INTER. NUMBER					SHEET NO.
NO.	DATE	DESCRIPTION	APPD.						IL-2
REVISION									

- 1 See Interconnect Plans.
- 2 See as-built of Beacon Plan.

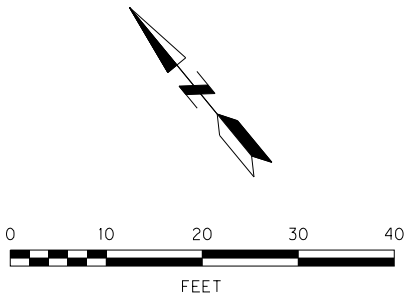


- Where electrical conduits will be installed by directional drilling near water mains, pothole to verify depth of cover prior to starting any directional drilling work. Contact Roy Martinez at 503-823-8311 at least 48 City of Portland working hours in advance of potholing any water facility to obtain Portland Water Bureau Inspection assistance.
- Where electrical conduits will be installed via open trench construction and will pass under existing water mains, a site specific UPP will be required for protecting and maintaining service in water mains.



			DESIGNED BY J. Shrader	DATE APPROVED Feb. 2020		APPROVALS:  REG. PROF. ENGR. NO. 53882PE  REG. PROF. ENGR. NO. 51538PE	 PORTLAND BUREAU OF TRANSPORTATION CHLOE EUDALY STEVE TOWNSEN, P.E.	 Columbia Blvd: Bank St to Macrum Ave, N Phase II Illumination Plans	174 SECTION 2023 2024
			CAD BY J. Shrader	DIV. ENGINEER P. Koonce					PROJECT NO. T00821
			CHECKED BY C. Radostia	INTER. NUMBER					SHEET NO.
NO.	DATE	DESCRIPTION	APPD.						
REVISION									

- Where electrical conduits will be installed by directional drilling near water mains, pothole to verify depth of cover prior to starting any directional drilling work. Contact Roy Martinez at 503-823-8311 at least 48 City of Portland working hours in advance of potholing any water facility to obtain Portland Water Bureau Inspection assistance.
- Where electrical conduits will be installed via open trench construction and will pass under existing water mains, a site specific UPP will be required for protecting and maintaining service in water mains.



--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TRAFFIC SIGNAL LEGEND

- (M)
(T)

EXISTING MODEL (M) CONTROLLER IN TYPE (T) CABINET
- COM

EXISTING COMMUNICATIONS EQUIPMENT PER COMMUNICATIONS COMPONENT SCHEDULE
- MAP

EXISTING MAST ARM POLE
- SB
SP

EXISTING SIDEWALK PULL BOX (SEE AS-BUILT OF SIGNAL PLAN)
- (S)

EXISTING (S) IN DIAMETER CONDUIT
- SP

EXISTING SIGNAL CONDUIT (SEE AS-BUILT OF SIGNAL PLAN)
- DC

EXISTING DETECTION CONDUIT (SEE AS-BUILT OF DETECTION PLAN)
- EB

INSTALL 5/8" IN EYEBOLT
- WH

INSTALL WEATHERHEAD
- SB
(T)

INSTALL TYPE (T) SIDEWALK PULL BOX, SEE STD. DRG. P-632
- (S)

INSTALL (S) IN DIAMETER ELECTRICAL CONDUIT
- PL

INSTALL PULL LINE
- C/E/C

CUT EXISTING CONDUIT AND SPLICE TO NEW CONDUIT

Plot Date: 2/10/2020 3:04:32 PM
Filename: \\P001FILE\Grp\SIG\PROJECTS\T00821 - Columbia - Bank to Macrum\CAD\PLAN SHEETS\SH1 IL ILLUMINATION_SHT TS TRAFFIC SIGNALS\Phase II\TS-1 Columbia Bank to Macrum - Interconnect Plan Ph2.dgn

EXISTING COMMUNICATIONS COMPONENTS SCHEDULE

Location	Equipment			
	Fiber Optic Switch	Fiber Optic Cable	Fiber Optic Patch Panel	Power Strip
N. Columbia Blvd. & Bank St.	1	2	1	1

Construction Notes

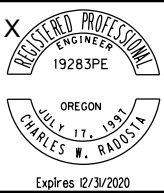
- 1 For future use.
- 2 Extend conduit to pole.
Install 2" pole riser for future use.
- 3 See Illumination Plans.
- 4 Intercept existing conduit.

General Notes

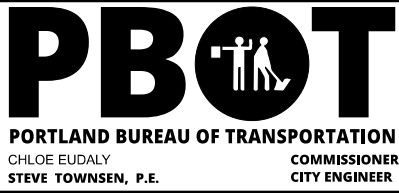
1. Where electrical conduits will be installed by directional drilling near water mains, pothole to verify depth of cover prior to starting any directional drilling work. Contact Roy Martinez at 503-823-8311 at least 2 City of Portland working days in advance of potholing any water facility to obtain Portland Water Bureau Inspection assistance.
2. Where electrical conduits will be installed via open trench construction and will pass under existing water mains, a site specific utility protection plan will be required for protecting and maintaining service in water mains.

NO.	DATE	DESCRIPTION	APPRO.
REVISION			

DESIGNED BY L. Okimoto	DATE APPROVED Feb. 2020
CAD BY L. Okimoto	DIV. ENGINEER P. Koonce
CHECKED BY C. Radosta	INTER. NUMBER 1613



APPROVALS:	
 CHLOE EUDALY CITY ENGINEER	REG. PROF. ENGR. NO. 53882PE
 STEVE TOWNSEN, P.E. COMMISSIONER	REG. PROF. ENGR. NO. 51538PE



Columbia Blvd: Bank St to Macrum Ave, N
Phase II

Interconnect Plan

1/4 SECTION 2023 2024
PROJECT NO. T00821
SHEET NO. TS-1