

**CONTRACT CHANGE ORDER**

Change Order No. 3	
Project: 46th Ave & Bryant LID, NE	Project No. T00872
Construction Manager: Consultant, See	Fed Aid No.
Contractor: WESTECH CONSTRUCTION, INC 2204 NE 194th Ave Portland, OR 97230	Contract No. 30008643
	Bid No. 00002187
	Ordinance No. 189347
THIS CONTRACT IS HEREBY MODIFIED AS FOLLOWS BY THIS CONTRACT CHANGE ORDER (CCO): (DESCRIPTION AND LOCATION OF WORK COVERED BY THIS CCO)	

CCO 003.001 - REMOVAL OF CURBS - Remove curbs per attached sheets, 1, 1A, 1C, 2A-2, 2B-3, 2D-4, 2E-2, 2F-12, 2F-13, 6, 6A, 8, 9, IL-01 thru IL-04, S-01 thru S-05.

CCO 003.002 - REMOVAL OF WALKS AND DRIVEWAYS, - Remove walks and driveways per attached sheets, 1, 1A, 1C, 2A-2, 2B-3, 2D-4, 2E-2, 2F-12, 2F-13, 6, 6A, 8, 9, IL-01 thru IL-04, S-01 thru S-05.

CCO 003.003 - REMOVAL OF SURFACING'S TO SUBGRADE, - Remove surfacing's per attached sheets, 1, 1A, 1C, 2A-2, 2B-3, 2D-4, 2E-2, 2F-12, 2F-13, 6, 6A, 8, 9, IL-01 thru IL-04, S-01 thru S-05.

CCO 003.004 - GENERAL EXCAVATION - Excavate per attached sheets, 1, 1A, 1C, 2A-2, 2B-3, 2D-4, 2E-2, 2F-12, 2F-13, 6, 6A, 8, 9, IL-01 thru IL-04, S-01 thru S-05.

CCO 003.005 - AGGREGATE BASE, 6 INCHES THICK - Install aggregate base per attached sheets, 1, 1A, 1C, 2A-2, 2B-3, 2D-4, 2E-2, 2F-12, 2F-13, 6, 6A, 8, 9, IL-01 thru IL-04, S-01 thru S-05.

CCO 003.006 - PLAIN CONCRETE PAVEMENT, DOWELLED, 12 INCHES THICK - Install concrete pavement per attached sheets, 1, 1A, 1C, 2A-2, 2B-3, 2D-4, 2E-2, 2F-12, 2F-13, 6, 6A, 8, 9, IL-01 thru IL-04, S-01 thru S-05.

CCO 003.007 - BIKE RACK SIGN SUPPORTS - Install bike rack sign supports per attached sheets, 1, 1A, 1C, 2A-2, 2B-3, 2D-4, 2E-2, 2F-12, 2F-13, 6, 6A, 8, 9, IL-01 thru IL-04, S-01 thru S-05.

CCO 003.008 - AGGREGATE BASE - Install aggregate base per attached sheets, 1, 1A, 1C, 2A-2, 2B-3, 2D-4, 2E-2, 2F-12, 2F-13, 6, 6A, 8, 9, IL-01 thru IL-04, S-01 thru S-05.

CCO 003.009 - REMOVAL AND REINSTALL EXISTING SIGNS - Remove and install signs per attached sheets, 1, 1A, 1C, 2A-2, 2B-3, 2D-4, 2E-2, 2F-12, 2F-13, 6, 6A, 8, 9, IL-01 thru IL-04, S-01 thru S-05.

CCO 003.010 - TRIMET SECURITY FENCING MATERIALS - Procure fencing materials per attached sheet TriMet Columbia-L100.

CCO 003.011 - TRIMET SECURITY FENCING INSTALLATION - Install fence per attached sheet TriMet Columbia-L100.

CCO 003.012 - TRIMET FILL ON PROPERTY - Install embankment materials per attached sheet TriMet Columbia-L100.

CCO 003.013 - 2" TRIMET CONDUIT 46TH AND COLUMBIA - Install conduit per attached sheet TriMet Columbia-L100.

CCO 003.014 - REVIS 00180.50(f), May 30, 2025 - Modify Contract time to include an additional 181 Calendar Days for the work covered by this CCO.

001 - MOBILIZATION - Delete Pay Item.

CCO 003.015 - MOBILIZATION - Add pay item, mobilize per attached sheets, 1, 1A, 1C, 2A-2, 2B-3, 2D-4, 2E-2, 2F-12, 2F-13, 6, 6A, 8, 9, IL-01 thru IL-04, S-01 thru S-05 and per contract documents.

006 - FLAGGERS - Increase pay item quantity 960 hours.

015 - CHANNELIZING DEVICES - Increase pay item quantity 360 feet.

016 - TEMPORARY CURB RAMPS CONSTRUCTED - Increase pay item quantity 2 EACH.

017 - TEMPORARY TYPE CL-6R - Increase pay item quantity 916 feet.

019 - SEDIMENT BARRIER, TYPE 3 - Increase pay item quantity 671feet.

020 - INLET PROTECTION TYPE 3 - Increase pay item quantity 1 each.

023 - CLEARING AND GRUBBING - Delete Pay Item.

CCO 003.016 - CLEARING AND GRUBBING - Add pay item clear and grub per attached sheets, 1, 1A, 1C, 2A-2, 2B-3, 2D-4, 2E-2, 2F-12, 2F-13, 6, 6A, 8, 9, IL-01 thru IL-04, S-01 thru S-05 and per contract documents..

025 - EMBANKMENT IN PLACE - Increase pay item quantity 166 cuyd.

026 - 12 INCH SUBGRADE STABILIZATION - Increase pay item quantity 248 sqyd.

027 - SUBGRADE GEOTEXTILE - Increase pay item quantity 1656 sqyd.

028 - GEOGRID TEXTILE - Increase pay item quantity 410 sqyd.

035 - ADJUSTING BOXES - Increase pay item quantity 3 each.

036 - ADJUSTING INLETS - Increase pay item quantity 1 each.

042 - COLD PLANE PAVEMENT REMOVAL, 4 INCHES DEEP - Increase pay item quantity 417 sqyd.

044 - AGGREGATE BASE, 18 INCHES THICK - Increase pay item quantity 1246 sqyd.

045 - LEVEL 3, 1/2 INCH ACP MIXTURE WITH 64-22 ASPHALT - Increase pay item quantity 630 ton.

046 - LEVEL 4, 1/2 INCH ACP MIXTURE WITH 70-22ER ASPHALT - Increase pay item quantity 395 ton.

047 - ASPHALT APPROACHES - Increase pay item quantity 172 sqft.

051 - CONCRETE CURBS, STANDARD CURB - Increase pay item quantity 31 feet.

052 - CONCRETE DRIVEWAYS - Increase pay item quantity 608 sqft.

053 - MONOLITHIC CURB AND SIDEWALKS- Increase pay item quantity 5913 sqft.

055 - EXTRA FOR CURB RAMPS - Increase pay item quantity 2 each.

056 - TRUNCATED DOMES ON NEW SURFACES - Increase pay item quantity 35 sqft.

057 - THERMOPLASTIC, EXTRUDED, SURFACE, NON-PROFILED - Increase pay item quantity 600 feet.

058 - PAVEMENT LEGEND, TYPE B-HS: ARROWS - Increase pay item quantity 2 each.

059 - PAVEMENT BAR, TYPE B-HS - Increase pay item quantity 324 sqft.

061 - REMOVE EXISTING SIGNS - Delete Pay Item.

CCO 003.017 - REMOVE EXISTING SIGNS - Add pay item, remove signs per attached sheets, 1, 1A, 1C, 2A-2, 2B-3, 2D-4, 2E-2, 2F-12, 2F-13, 6, 6A, 8, 9, IL-01 thru IL-04, S-01 thru S-05 and per contract documents.

062 - SIGN SUPPORT FOOTINGS, BREAKAWAY - Increase pay item quantity 5 each.

063 - PIPE BREAKAWAY SIGN SUPPORTS - Increase pay item quantity 5 each.

SPECIFICATIONS AND PROVISIONS - THE WORK TO BE DONE UNDER THIS CCO IS TO BE PERFORMED, MEASURED, AND PAID FOR IN ACCORDANCE WITH THE TERMS FOR THE ABOVE CONTRACT EXCEPT AS MODIFIED AS FOLLOWS:

Item No. CCO 003.001, REMOVAL OF CURBS, is payment to perform the work covered by this change order per 00310.
 Item No. CCO 003.002, REMOVAL OF WALKS AND DRIVEWAYS, is payment to perform the work covered by this change order per 00310.
 Item No. CCO 003.003, REMOVAL OF SURFACING'S TO SUBGRADE, is payment to perform the work covered by this change order per 00310.
 Item No. CCO 003.004, GENERAL EXCAVATION, is payment to perform the work covered by this change order per 00330.
 Item No. CCO 003.005, AGGREGATE BASE, 6 INCHES THICK, is payment to perform the work covered by this change order per 00640.
 Item No. CCO 003.006, PLAIN CONCRETE PAVEMENT, DOWELLED, 12 INCHES THICK, is payment to perform the work covered by this change order per 00756.
 Item No. CCO 003.007, BIKE RACK SIGN SUPPORTS, is payment to perform the work covered by this change order per 00930.
 Item No. CCO 003.008, AGGREGATE BASE, is payment to perform the work covered by this change order per 00640.
 Item No. CCO 003.009, REMOVAL AND REINSTALL EXISTING SIGNS, is payment to perform the work covered by this change order per 00905.
 Item No. CCO 003.010, TRIMET SECURITY FENCING MATERIALS, is payment in full for furnishing all materials, and incidentals complete the work.

Item No. CCO 003.011, TRIMET SECURITY FENCING INSTALLATION, is payment in full for placing all materials, furnishing all equipment, labor and incidentals to complete the work.

Item No. CCO 003.012, TRIMET FILL ON PROPERTY, is payment in full for furnishing and placing all materials, furnishing all equipment labor and incidentals to complete the work.

Item No. CCO 003.013, 2" TRIMET CONDUIT 46TH AND COLUMBIA, is payment in full for furnishing and placing all materials, furnishing all equipment, labor and incidentals to complete the work.

Replace 00180.50(f) Contract Time to Complete work with the following:

00180.50(f) Contract Time to Complete Work - Complete all Work to be done under the Contract, except for seeding establishment and plant establishment, not later than May 30, 2025.

PAY ITEM CHANGES:

ITEM #	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
CCO 003.001	REMOVAL OF CURBS	413.0000	FOOT	\$10.34	\$4,270.42
CCO 003.002	REMOVAL OF WALKS AND DRIVEWAYS,	173.0000	SQYD	\$32.62	\$5,643.26
CCO 003.003	REMOVAL OF SURFACING'S TO SUBGRADE	946.0000	SQYD	\$27.10	\$25,636.60
CCO 003.004	GENERAL EXCAVATION	1,042.0000	CUYD	\$68.12	\$70,981.04
CCO 003.005	AGGREGATE BASE, 6 INCHES THICK	411.0000	SQYD	\$30.60	\$12,576.60
CCO 003.006	PLAIN CONCRETE PAVEMENT, DOWELLED, 12 INCHES THICK	410.0000	SQYD	\$267.12	\$109,519.20
CCO 003.007	BIKE RACK SIGN SUPPORTS	2.0000	EACH	\$1,207.50	\$2,415.00
CCO 003.008	AGGREGATE BASE	1,327.0000	TON	\$59.00	\$78,293.00
CCO 003.009	REMOVAL AND REINSTALL EXISTING SIGNS	1.0000	LS	\$1,732.50	\$1,732.50
CCO 003.010	TRIMET SECURITY FENCING INSTALLATION	1.0000	LS	\$1.00	\$247,978.50
CCO 003.011	TRIMET SECURITY FENCING MATERIALS	1.0000	LS	\$.00	\$348,862.50

CCO 003.012	TRIMET FILL ON PROPERTY	2,347.0000	CUYD	\$74.44	\$174,710.68
CCO 003.013	2" TRIMET CONDUIT 46TH AND COLUMBIA	1.0000	LS	\$28,350.00	\$28,350.00
CCO 003.014	REVISE 00180.50(f), May 30, 2025	.0000		\$.00	\$.00
001	MOBILIZATION	-1.0000	LS	\$262,850.00	-\$262,850.00
CCO 003.015	MOBILIZATION	1.0000	LS	\$440,502.98	\$440,502.98
006	FLAGGERS	960.0000	HOURL	\$66.00	\$63,360.00
015	CHANNELIZING DEVICES	360.0000	FOOT	\$29.00	\$10,440.00
016	TEMPORARY CURB RAMP, CONSTRUCTED	2.0000	EACH	\$1,211.00	\$2,422.00
017	TEMPORARY TYPE CL-6R CHAIN LINK FENCE	916.0000	FOOT	\$12.00	\$10,992.00
019	SEDIMENT BARRIER, TYPE 3	671.0000	FOOT	\$4.50	\$3,019.50
020	INLET PROTECTION, TYPE 3	1.0000	EACH	\$181.00	\$181.00
023	CLEARING AND GRUBBING	-1.0000	LS	\$12,300.00	-\$12,300.00
CCO 003.016	CLEARING AND GRUBBING	1.0000	LS	\$43,469.10	\$43,469.10
025	EMBANKMENT IN PLACE	166.0000	CUYD	\$101.00	\$16,766.00
026	12 INCH SUBGRADE STABILIZATION	248.0000	SQYD	\$29.80	\$7,390.40
027	SUBGRADE GEOTEXTILE	1,656.0000	SQYD	\$1.30	\$2,152.80
028	DRAINAGE GEOTEXTILE, TYPE 2	410.0000	SQYD	\$5.90	\$2,419.00
035	ADJUSTING BOXES	3.0000	EACH	\$200.00	\$600.00
036	ADJUSTING INLETS	1.0000	EACH	\$1,295.00	\$1,295.00
042	COLD PLANE PAVEMENT REMOVAL, 4 INCHES DEEP	417.0000	SQYD	\$20.55	\$8,569.35
044	AGGREGATE BASE, 18 INCHES THICK	1,246.0000	SQYD	\$32.75	\$40,806.50
045	LEVEL 3, 1/2 INCH ACP MIXTURE WITH PG 64-22 ASPHALT	630.0000	TON	\$151.00	\$95,130.00
046	LEVEL 4, 1/2 INCH ACP MIXTURE WITH PG 70-22ER ASPHALT	395.0000	TON	\$160.75	\$63,496.25
047	ASPHALT APPROACHES	172.0000	SQFT	\$4.25	\$731.00
051	CONCRETE CURBS, STANDARD CURB	31.0000	FOOT	\$74.50	\$2,309.50
052	CONCRETE DRIVEWAYS	608.0000	SQFT	\$20.20	\$12,281.60
053	MONOLITHIC CURB AND SIDEWALKS	5,913.0000	SQFT	\$12.10	\$71,547.30
055	EXTRA FOR NEW CURB RAMPS	2.0000	EACH	\$3,913.00	\$7,826.00
056	TRUNCATED DOMES ON NEW SURFACES	35.0000	SQFT	\$31.44	\$1,100.40
057	THERMOPLASTIC, EXTRUDED, SURFACE, NON-PROFIED	600.0000	FOOT	\$2.18	\$1,308.00
058	PAVEMENT LEGEND, TYPE B-HS: ARROWS	2.0000	EACH	\$415.06	\$830.12
059	PAVEMENT BAR, TYPE B-HS	324.0000	SQFT	\$12.01	\$3,891.24
061	REMOVE EXISTING SIGNS	-1.0000	LS	\$546.13	-\$546.13
CCO 003.017	REMOVE EXISTING SIGNS	1.0000	LS	\$2,730.65	\$2,730.65
062	SIGN SUPPORT FOOTINGS, BREAKAWAY	5.0000	EACH	\$491.52	\$2,457.60
063	PIPE BREAKAWAY SIGN SUPPORTS	5.0000	EACH	\$600.75	\$3,003.75
064	SIGNS, STANDARD SHEETING, SHEET ALUMINUM	29.0000	SQFT	\$34.95	\$1,013.55
066	POLE FOUNDATIONS	-1.0000	LS	\$16,165.54	-\$16,165.54
CCO 003.018	POLE FOUNDATIONS	1.0000	LS	\$22,885.54	\$22,885.54
067	LIGHTING POLES	-1.0000	LS	\$29,491.19	-\$29,491.19
CCO 003.019	Construction Contract	1.0000	LS	\$39,256.19	\$39,256.19

068	LIGHTING POLE ARMS	-1.0000	LS	\$5,460.00	-\$5,460.00
CCO 003.020	LIGHTING POLE ARMS	1.0000	LS	\$7,507.50	\$7,507.50
069	LUMINAIRES	-1.0000	LS	\$7,425.00	-\$7,425.00
CCO 003.021	LUMINAIRES	9,567.0000	LS	\$1.00	\$9,567.00
070	SWITCHING, CONDUIT AND WIRING	-1.0000	LS	\$131,600.00	-\$131,600.00
CCO 003.022	SWITCHING, CONDUIT AND WIRING	1.0000	LS	\$181,868.75	\$181,868.75
073	PERMANENT SEEDING, SLOPE	.1000	ACRE	\$6,007.47	\$600.75
074	TOPSOIL	3.0000	CUYD	\$69.91	\$209.73
075	DECIDUOUS TREES, 2-1/2 INCH CALIPER	6.0000	EACH	\$1,252.53	\$7,515.18
076	ROCK MULCH	3.0000	TON	\$54.61	\$163.83
077	ROOT BARRIER	54.0000	FOOT	\$15.29	\$825.66
Current Contract Amount					\$2,676,419.41
Estimated Net Cost Effect of this Agreement on the Contract					\$1,839,574.16
Estimated Revised Contract Amount					\$4,515,993.57

Approved By:

Contractor: Confirm your agreement by signing and dating below. Work shall not begin until you are notified that the agreement has either been approved or that work may commence under advance approval. Your signature further confirms agreement that payments in accordance with the agreement constitute full and complete compensation for all costs, both direct and indirect, arising out of the described work covered by this agreement, and releases and discharges the Owner from other costs except as provided herein.	
WESTECH CONSTRUCTION, INC	Portland Bureau of Transportation
SIGNATURE:	SIGNATURE:
DATE:	DATE:

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	<i>Cover Sheet</i>
1A	<i>Index of Sheets Continued</i>
1B	<i>Symbols and Abbreviations</i>
1C	<i>Sheet Layout Plan</i>

City of Portland Bureau of Transportation

Plans for Proposed Project

*Grading, Drainage, Paving, Striping, Signing,
Signals, Street Lighting, Water & Roadside Development*

NE 46th Avenue & Bryant Street LID Phase I

NE 42nd Ave, NE 46th Ave & NE Columbia Blvd Improvements

END OF PROJECT
STA. "42" 3+77.80

BEGINNING OF PROJECT
STA. "C" 12+35.61

END OF PROJECT
STA. "C" 28+66.48

Multnomah County
July 2023

END OF CONSTRUCTION
STA. "46" 1+68.09

Overall Length of Project - 1590 Feet



SEC. 13, T. 1 N., R. 1 E., W.M.
SEC. 18, T. 1 N., R. 2 E., W.M.

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.
(NOTE: THE TELEPHONE NUMBER FOR
THE OREGON UTILITY NOTIFICATION
CENTER IS (503)-232-1987).

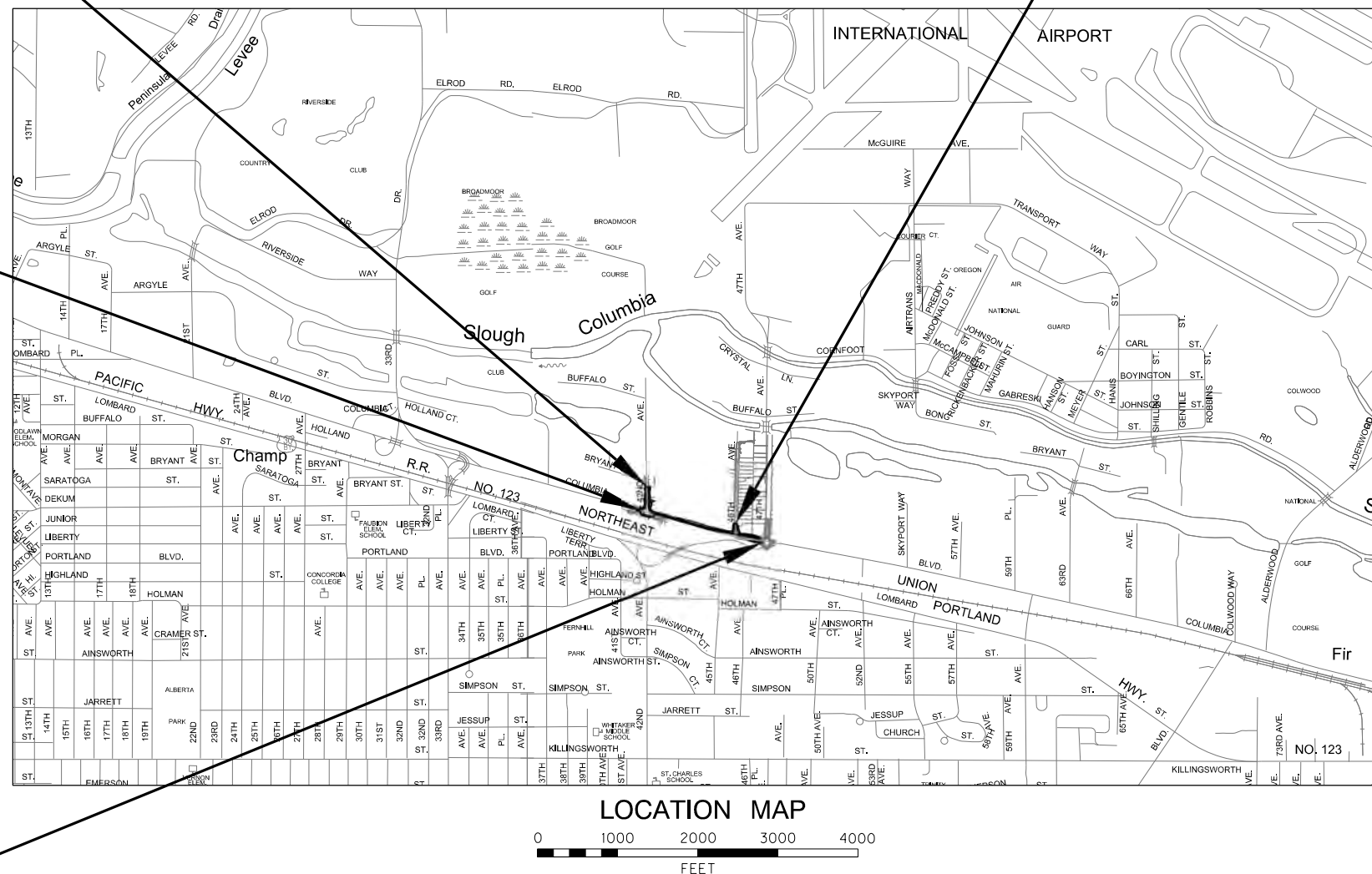
POTENTIAL UNDERGROUND FACILITY OWNERS

Dig Safely.

Call the Oregon One-Call Center
DIAL 811 or 1-800-332-2344

EMERGENCY TELEPHONE NUMBERS

NW NATURAL GAS
M-F 7am-6pm 503-226-4211 Ext.4313
AFTER HOURS 503-226-4211
PGE 503-464-7777
QWEST 1-800-573-1311
CITY BUREAU OF MAINTENANCE 503-823-1700
CITY WATER 503-823-4874
VERIZON 1-800-483-1000

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INDEX OF SHEETS CONTINUED	
SHEET NO.	DESCRIPTION
2A-1 and 2A-2	Typical Sections
2B-1 through 2B-4	Construction Details
2C-1 through 2C-6	Staging Plan
2D-1 through 2D-5	Erosion Control Plan
2E-1 and 2E-3	Horizontal Alignment Plan
2F-1 through 2F-14	Elevation Detail Plan
2G-1 through 2G-2	Street Concrete Joint Plan
3 through 9	Plan and Profile
D-1	Stormwater Plan
D-2	Pipe Data Table
R-1	Retaining Wall Overview
R-2	Retaining Wall Sheet
R-3	Retaining Wall Details
R-4	Fence Railing Details
R-5	Modular Block Wall Details
S-01 through S-03A	Signing and Striping Plan
S-04	Signing Legend
S-05	Sign and Post Data Table
IL-01	Illumination Notes and Legend
IL-02 through IL-03	Illumination Plan
IL-04	Illumination Details
TS-1	Traffic Signal Notes and Legend
TS-2	Traffic Signal Plan
TS-3	Traffic Signal Detail
TS-4	Detector Plan
TS-5	Signal Wiring Diagram
TS-6 through TS-7	Signal Details
IC-01	Interconnect Legend
IC-02	Interconnect Plan
IC-03 through IC-05	Interconnect Details

City of Portland Std. Drg. Nos.

P-101	- Pipe Bedding And Pipe Zone
P-151	- Maintenance Hole Cast-in-Place Base & Precast Base Slab
P-150	- Precast Concrete Maintenance Hole
P-168	- Step for Precast Maintenance Hole
P-171	- Maintenance Hole Frame - 6-inch Depth
P-172	- Maintenance Hole Frame - 10-inch Depth
P-174	- Maintenance Hole Riser Ring
P-176	- Maintenance Hole Cover

P-201 - Adjust Concrete Inlet
P-258 - Sanitary Sewer Terminal Cleanout
P-259 - Sanitary Cleanout Frame Foundation
P-260 - Sanitary Cleanout Frame and Cover
P-261 - Sanitary Cleanout Frame & Cover Landscape

- P-300 - Concrete Inlet Type Metal
- P-301 - Concrete Inlet Type Metal Rotated
- P-302 - Concrete Inlet Type Metal Metal Inlet Assembly
- P-305 - Concrete Inlet Type Metal With G-1 Or G-2 Grate
- P-307 - Planter Walls
- P-308 - Curb Extension Outlet Notch
- P-309 - Beehive Inlet
- P-310 - Overflow Slotted Drain
- P-331 - Utility Coordination Sewer Service Requirements
- P-332 - Utility Coordination Water Service Line Sleeving
- P-333 - Utility Coordination Water Asset Clearances
- P-340 - Linear Attachment And Pipe Boot

P-400	- Sign Placement
P-405	- Breakaway Anchor Traffic Sign Supports
P-406	- Breakaway Dome Traffic Sign Supports
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 Lane Lines and Parking
P-435	- Pavement Markings Standard Detail Blocks Traffic Calming and Transit


- P-507 - Manhole Frame Adjustment
- P-518 - AC Pavement Trench Resurfacing On Busy Streets
- P-528 - Typical Separated Sidewalk Driveway
- P-531 - Curb Tight Sidewalk Fully Lowered Driveway
- P-536 - Driveway Connection Detail
- P-540 - Curbs
- P-544 - Miscellaneous Curb Details
- P-546 - Keyed Combination Curb And Sidewalk
- P-548 - Sidewalk Ramp With Planter Strip Placement Options
- P-551 - Sidewalks
- P-581 - Typical Street Tree Installation
- P-582 - Street Tree Protection Detail - Prescriptive Path
- P-583 - Street Tree Protection Alternate Fencing for Underground Utilities

City of Portland Std. Drg. Nos. Continued

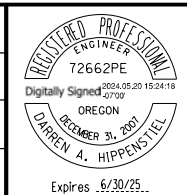
- P-602 - Combination Mast Arm Pole Details
- P-603 - Dual Mast Arm Pole Details
- P-604(A) - Mast Arm Pole Flange Plate Details
- P-604(B) - Mast Arm Pole Base Plate Details
- P-604(C) - Mast Arm Pole Recessed Terminal Cabinet
- P-605 - Mast Arm Pipe Tenon Attachment And Luminaire Arm Details
- P-606 - Signal Pole Footing & Anchor Bolts Type 1
- P-607 - Signal Pole Footing & Anchor Bolts Type 2 & 3
- P-610 - Base Mounted Signal Post Footing & Type 332 Cabinet Foundation Details
- P-612 - Signal Wiring Color Code
- P-620 - "APS" Pushbutton Assembly
- P-622 - Pedestrian Signal Mounting On Steel And Wood Poles
- P-623 - Pedestrian Signal, Sensor, And Pushbutton On Frangibles, Ornaments, And Pipe Post
- P-624 - Controller Cabinet And Communication Interface Details
- P-625 - Service Installation On Steel And Wood Poles
- P-626 - Service Cabinets for Steel and Wood Poles and on Pedestals
- P-627 - Signal Equipment Pole & Mast Arm Mounted Details
- P-629 - Overhead Street Name And Aluminum Sign Mounting Details
- P-632 - Pull Box Type A & B Details
- P-634 - Detector Loop & Loop Pocket Details
- P-651 - Street Lighting Cobra-Head Pole Details
- P-660 - Street Lighting Standard Street Light Standard Pole Footing
- P-671 - Street Lighting Service Cabinet Details
- P-680 - Street Lighting Pole Wiring Diagrams

ODOT Std. Drg. Nos.

RD364	- Concrete Inlets Type G-1, G-2, G-2M & G-2MA
RD376	- Miscellaneous Drainage Structures Siphon Box, Inlet Cap & Inlet Adjustment
RD701	- Drainage Curbs
RD1010	- Inlet Protection Type 2, 3, 6, 7, 10 And 11
RD1030	- Sediment Barrier Type 2, 3 And 4
TM472	- Junction Box / Hand Holes
TM500	- Pavement Marking Standard Detail Blocks
TM501	- Pavement Marking Standard Detail Blocks
TM502	- Pavement Marking Standard Detail Blocks
TM503	- Pavement Marking Standard Detail Blocks
TM530	- Intersection Pavement Markings (Crosswalk, Stop Bar, Bike Lane Stencil)
TM531	- Turn Arrow Marking Details

	3/24	Updates to project limits. 46th/Columbia intersection and bus pullouts.	DAH
NO.	DATE	DESCRIPTION	APPD.
REVISION			

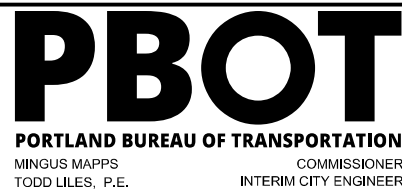
DESIGNED BY <i>N. Polenske</i>	DATE APPROVED <i>July 2023</i>
CAD BY <i>M. Ruiz-Leon</i>	PBOT REVIEWER <i>R. Bennett</i>
CHECKED BY <i>D.Hippenstiel</i>	PBOT SUPV. <i>A. Mansor</i>



APPROVALS:

EVA HUNTSINGER, ENGINEERING MANAGER, 84470PE

TODD LILES, INTERIM CITY ENGINEER, 18563PE

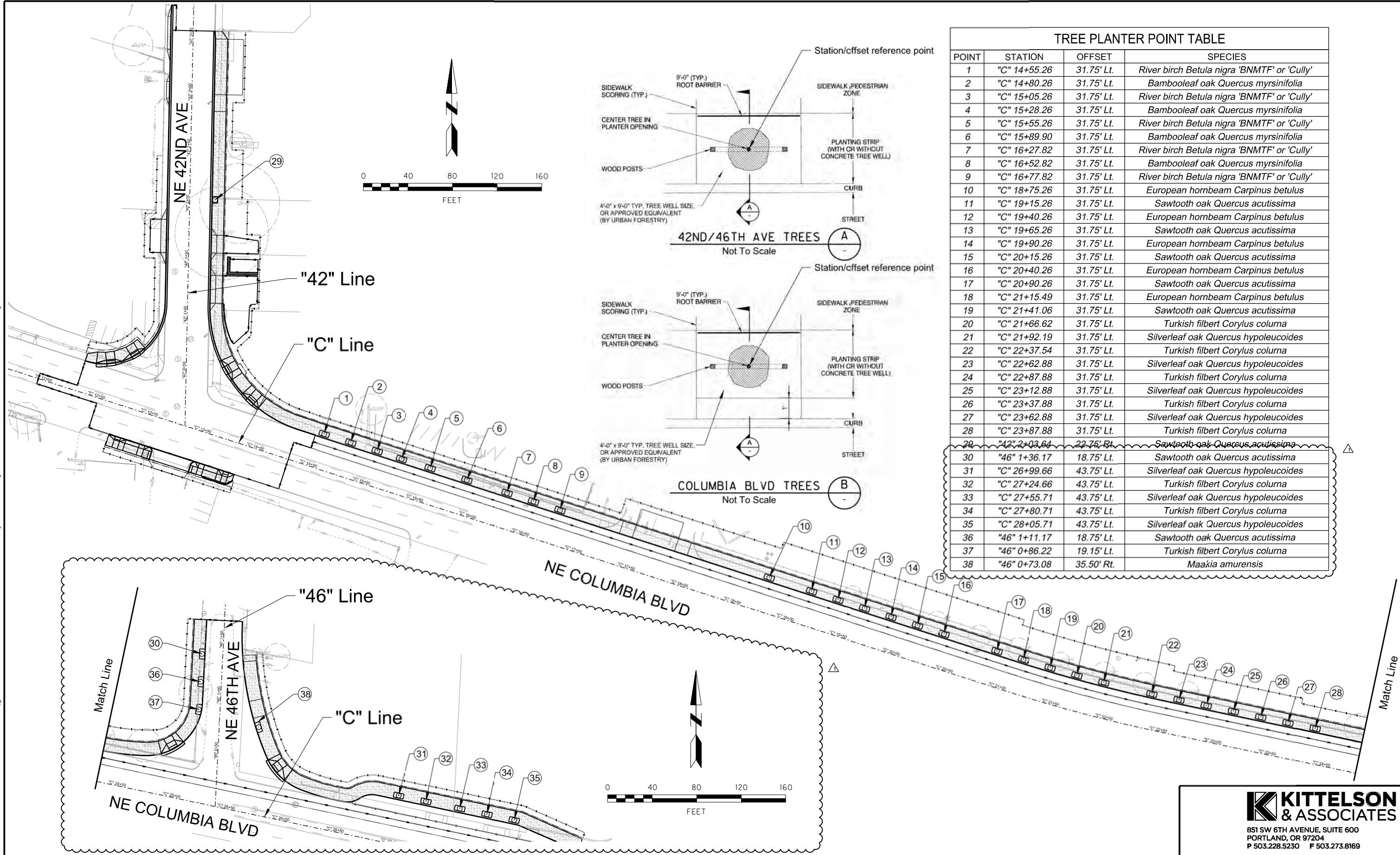


 KITTELSON & ASSOCIATES 851 SW 6TH AVENUE, SUITE 600 PORTLAND, OR 97204 P 503.228.5230 F 503.273.8169	1/4" SECTION 2335	
	PROJECT NO. T00872	
	SHEET NO. 1A	







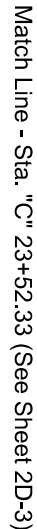
<div><div></div><div></div></div>		3/24	Updates to project limits. 46th/Columbia intersection and bus pullouts.		DAH	DESIGNED BY N. Polenske	DATE APPROVED July 2023	<div><div>REGISTERED PROFESSIONAL ENGINEER 72662PE Digitally Signed 2024.05.30 19:23:30 407007 OREGON DECEMBER 31, 2027 DARRIN A. HIPPENSTIEL Expires 6/30/25</div></div>	APPROVALS:	<div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></di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SECTION	2335
OBJECT NO.	T00872
SHEET NO.	2A-3



POINT	STATION	OFFSET	SPECIES
1	"C" 14+55.26	31.75' Lt.	River birch <i>Betula nigra</i> 'BNMTF' or 'Cully'
2	"C" 14+80.26	31.75' Lt.	Bambooleaf oak <i>Quercus myrsinifolia</i>
3	"C" 15+05.26	31.75' Lt.	River birch <i>Betula nigra</i> 'BNMTF' or 'Cully'
4	"C" 15+28.26	31.75' Lt.	Bambooleaf oak <i>Quercus myrsinifolia</i>
5	"C" 15+55.26	31.75' Lt.	River birch <i>Betula nigra</i> 'BNMTF' or 'Cully'
6	"C" 15+89.90	31.75' Lt.	Bambooleaf oak <i>Quercus myrsinifolia</i>
7	"C" 16+27.82	31.75' Lt.	River birch <i>Betula nigra</i> 'BNMTF' or 'Cully'
8	"C" 16+52.82	31.75' Lt.	Bambooleaf oak <i>Quercus myrsinifolia</i>
9	"C" 16+77.82	31.75' Lt.	River birch <i>Betula nigra</i> 'BNMTF' or 'Cully'
10	"C" 18+75.26	31.75' Lt.	European hornbeam <i>Carpinus betulus</i>
11	"C" 19+15.26	31.75' Lt.	Sawtooth oak <i>Quercus acutissima</i>
12	"C" 19+40.26	31.75' Lt.	European hornbeam <i>Carpinus betulus</i>
13	"C" 19+65.26	31.75' Lt.	Sawtooth oak <i>Quercus acutissima</i>
14	"C" 19+90.26	31.75' Lt.	European hornbeam <i>Carpinus betulus</i>
15	"C" 20+15.26	31.75' Lt.	Sawtooth oak <i>Quercus acutissima</i>
16	"C" 20+40.26	31.75' Lt.	European hornbeam <i>Carpinus betulus</i>
17	"C" 20+90.26	31.75' Lt.	Sawtooth oak <i>Quercus acutissima</i>
18	"C" 21+15.49	31.75' Lt.	European hornbeam <i>Carpinus betulus</i>
19	"C" 21+41.06	31.75' Lt.	Sawtooth oak <i>Quercus acutissima</i>
20	"C" 21+66.62	31.75' Lt.	Turkish filbert <i>Corylus colurna</i>
21	"C" 21+92.19	31.75' Lt.	Silverleaf oak <i>Quercus hypoleucoides</i>
22	"C" 22+37.54	31.75' Lt.	Turkish filbert <i>Corylus colurna</i>
23	"C" 22+62.88	31.75' Lt.	Silverleaf oak <i>Quercus hypoleucoides</i>
24	"C" 22+87.88	31.75' Lt.	Turkish filbert <i>Corylus colurna</i>
25	"C" 23+12.88	31.75' Lt.	Silverleaf oak <i>Quercus hypoleucoides</i>
26	"C" 23+37.88	31.75' Lt.	Turkish filbert <i>Corylus colurna</i>
27	"C" 23+62.88	31.75' Lt.	Silverleaf oak <i>Quercus hypoleucoides</i>
28	"C" 23+87.88	31.75' Lt.	Turkish filbert <i>Corylus colurna</i>
29	"42" 2+03.64	22.75' Rt.	Sawtooth oak <i>Quercus acutissima</i>
30	"46" 1+36.17	18.75' Lt.	Sawtooth oak <i>Quercus acutissima</i>
31	"C" 26+99.66	43.75' Lt.	Silverleaf oak <i>Quercus hypoleucoides</i>
32	"C" 27+24.66	43.75' Lt.	Turkish filbert <i>Corylus colurna</i>
33	"C" 27+55.71	43.75' Lt.	Silverleaf oak <i>Quercus hypoleucoides</i>
34	"C" 27+80.71	43.75' Lt.	Turkish filbert <i>Corylus colurna</i>
35	"C" 28+05.71	43.75' Lt.	Silverleaf oak <i>Quercus hypoleucoides</i>
36	"46" 1+11.17	18.75' Lt.	Sawtooth oak <i>Quercus acutissima</i>
37	"46" 0+86.22	19.15' Lt.	Turkish filbert <i>Corylus colurna</i>
38	"46" 0+73.08	35.50' Rt.	<i>Maakia amurensis</i>

	3/24	Updates to project limits. 46th/Columbia intersection and bus pullouts.	DAH	DESIGNED BY N. Polenske	DATE APPROVED July 2023		APPROVALS: EVA HUNTSINGER, ENGINEERING MANAGER, 84470PE TODD LILES, INTERIM CITY ENGINEER, 18563PE			NE 46th Avenue & Bryant Street LID Phase I Construction Details Tree Planter Locations	1/4 SECTION 2335
				CAD BY M. Ruiz-Leon	PBOT REVIEWER R. Bennett						PROJECT NO. T00872
				CHECKED BY D.Hippenstiel	PBOT SUPV. A. Mansor						SHEET NO.
NO.	DATE	DESCRIPTION	APPD.								2B-3
		REVISION									



- ## Construction Notes

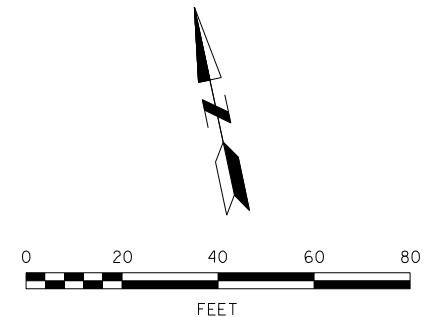
1 Install inlet protection - 2. See Std. Drg. No. RD1010.

2 Install temporary type orange plastic mesh fence, 3.5 ft. tall. See Std. Drg. No. P-582 and P-583. Roots greater than 2" diameter must be approved by Urban Forestry prior to pruning. 1 - 6' x 4.5'.

3 Install sediment barrier type 3 - 588'.
See Std. Drg. No. RD1030.

4 Remove tree - 4.

Plan


KITTELSON
 & ASSOCIATES

851 SW 6TH AVENUE, SUITE 600
PORTLAND, OR 97204
P 503.228.5230 F 503.273.8169

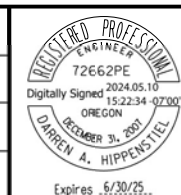
NE 46th Avenue & Bryant Street LID Phase I

Erosion Control Plan

SECTION	2335
OBJECT NO.	T00872
SHEET NO.	2D-4

3/24	Updates to project limits. 46th/Columbia intersection and bus pullouts.	DAH
NO.	DESCRIPTION	APPD.
	REVISION	

DESIGNED BY <i>N. Polenske</i>	DATE APPROVED <i>July 2023</i>
CAD BY <i>M. Ruiz-Leon</i>	PB0T REVIEWER <i>R. Bennett</i>
CHECKED BY <i>D.Hippenstiel</i>	PB0T SUPV. <i>A. Mansor</i>



APPROVALS:

EVA HUNTSINGER, ENGINEERING MANAGER, 84470PE

TODD LILES, INTERIM CITY ENGINEER, 18563PE

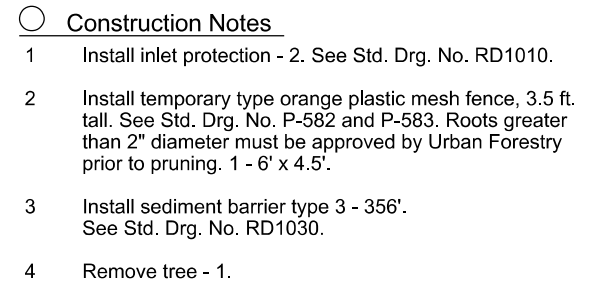
PBOT



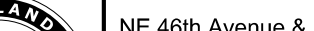
PORTLAND BUREAU OF TRANSPORTATION

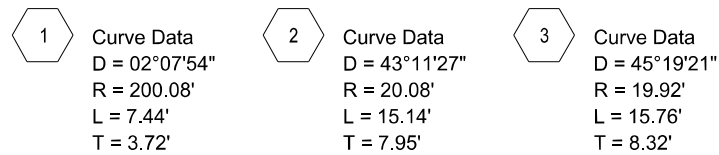
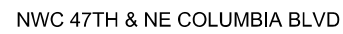
MINGUS MAPPS
TODD LILES, P.E.

COMMISSIONER
INTERIM CITY ENGINEER





2/24	Removed temporary asphalt, changed driveway width, and adjustment of conc. pvmt. joint spacing.	DAH	DESIGNED BY N. Polenske	DATE APPROVED July 2023		APPROVALS: EVA HUNTSINGER, ENGINEERING MANAGER, 84470FE TODD LILES, INTERIM CITY ENGINEER, 18563PE			NE 46th Avenue & Bryant Street LID Phase I <i>Erosion Control Plan</i>	174 SECTION 2335 PROJECT NO. T00872 SHEET NO. 2D-5
			CAD BY M. Ruiz-Leon	PBOT REVIEWER R. Bennett						
			CHECKED BY D. Hippenstiel	PBOT SUPV. A. Mansor						
NO.	DATE	DESCRIPTION	APPD.							
		REVISION								



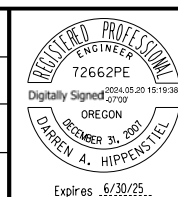
NE 46th Avenue & Bryant Street LID Phase I

Horizontal Alignment Plan

N.E. Columbia Blvd. WB Bus Pullout

3/24	Updates to project limits. 46th/Columbia intersection and bus pullouts.	DAH
NO.	DESCRIPTION	APPD.
REVISION		

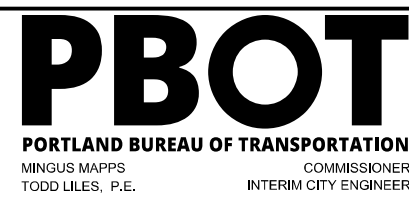
DESIGNED BY <i>N. Polenske</i>	DATE APPROVED <i>July 2023</i>
CAD BY <i>M. Ruiz-Leon</i>	PBOT REVIEWER <i>R. Bennett</i>
CHECKED BY <i>D.Hippenstiel</i>	PBOT SUPV. <i>A. Mansor</i>



APPROVALS:

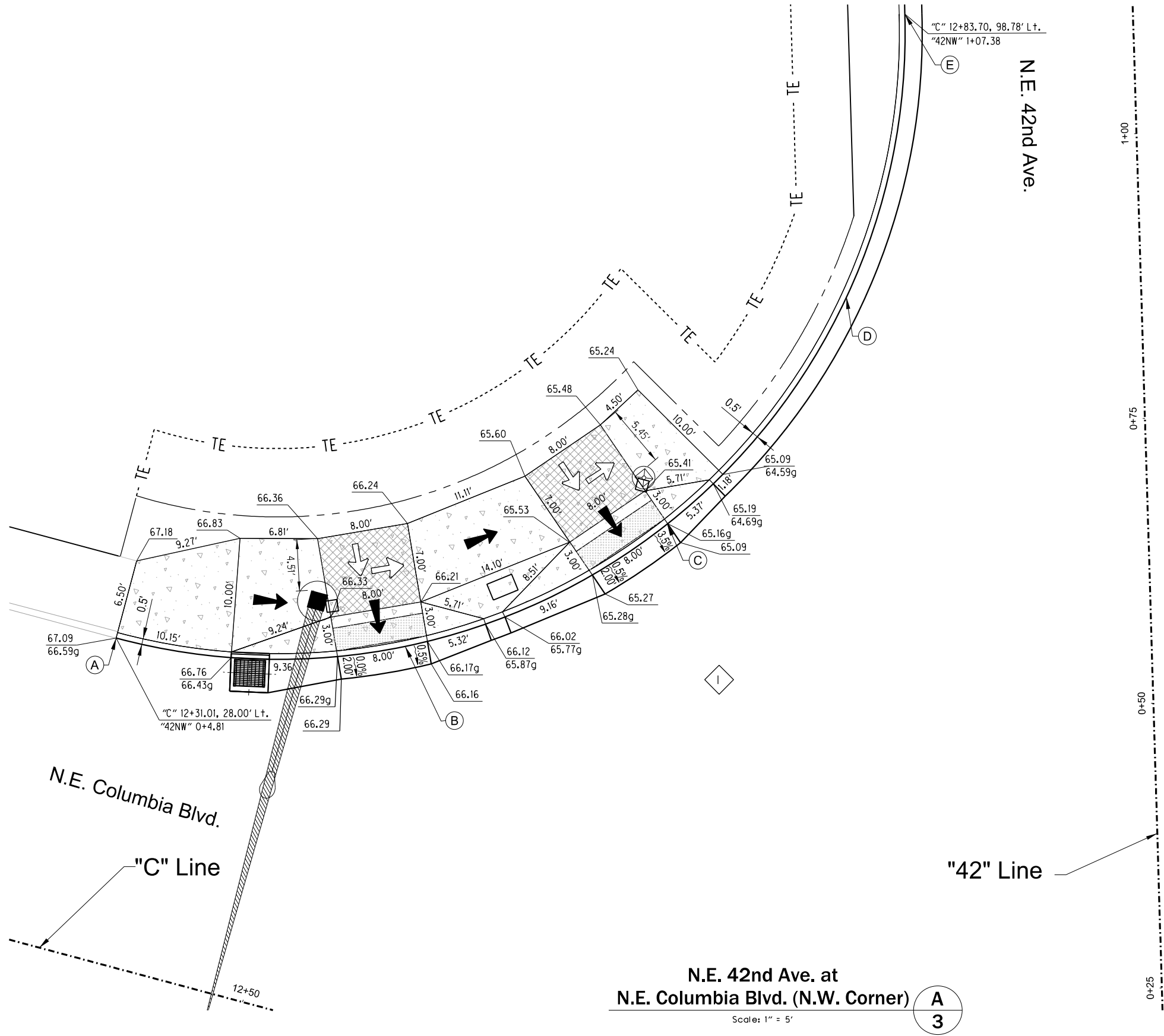
EVA HUNTSINGER, ENGINEERING MANAGER, 84470PE

TODD LILES, INTERIM CITY ENGINEER, 18563PE



SECTION	2335
OBJECT NO.	T00872
SHEET NO.	2E-3

Plot Date: 4/29/2024 10:44:08 AM File Name: H:\23\23593\2\23593-NE 46th & Bryant LID\design\CD\23593-Elevation Detail Plans-2F-L.dgn



CURB RETURN CUVE DATA TABLE								
CURVE	ARC LENGTH	RADIUS	DELTA	CHORD	START STA.	START OFF.	END STA.	END OFF.
I	102.57'	55.08'	106°41'18"	88.38'	"C" 12+31.01	28.00' Lt.	"C" 12+83.70	98.78' Lt.

CURB POINT TABLE						
CURVE	POINT	DESCR.	STATION	OFFSET	GUTTER ELEV.	TOP CURB ELEV.
I	A	PC	"C" 12+31.01	28.00' Lt.	G = 66.59	TFC = 67.09
	B	1/4	"C" 12+55.70	33.84' Lt.	G = 66.20	TFC = 66.20
	C	1/2	"C" 12+75.14	50.15' Lt.	G = 65.16	TFC = 65.16
	D	3/4	"C" 12+85.18	73.45' Lt.	G = 62.92	TFC = 63.42
	E	PT	"C" 12+83.70	98.78' Lt.	G = 60.69	TFC = 61.19

The elevations in this table are for reference only.
See detailed elevation points for curb ramps on this sheet.

LEGEND

Landing Area, max 2% slope in all directions

Slope 8.33% max

Slope 2% max

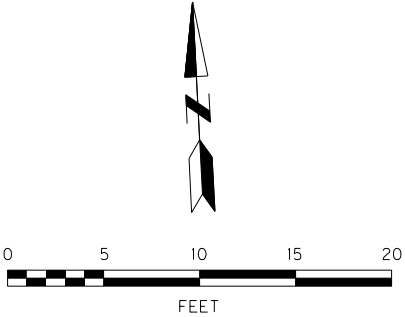
Monolithic curb and sidewalks
(535.29 SQ.FT.)

Truncated dome detectable warning surface
(33.63 SQ. FT.)

Pedestrian Push Button

Traffic Signal Mast Arm

Traffic Signal Pole



KITTELSON & ASSOCIATES
851 SW 6TH AVENUE, SUITE 600
PORTLAND, OR 97204
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NE 46th Avenue & Bryant Street LID Phase I

Elevation Detail Plans

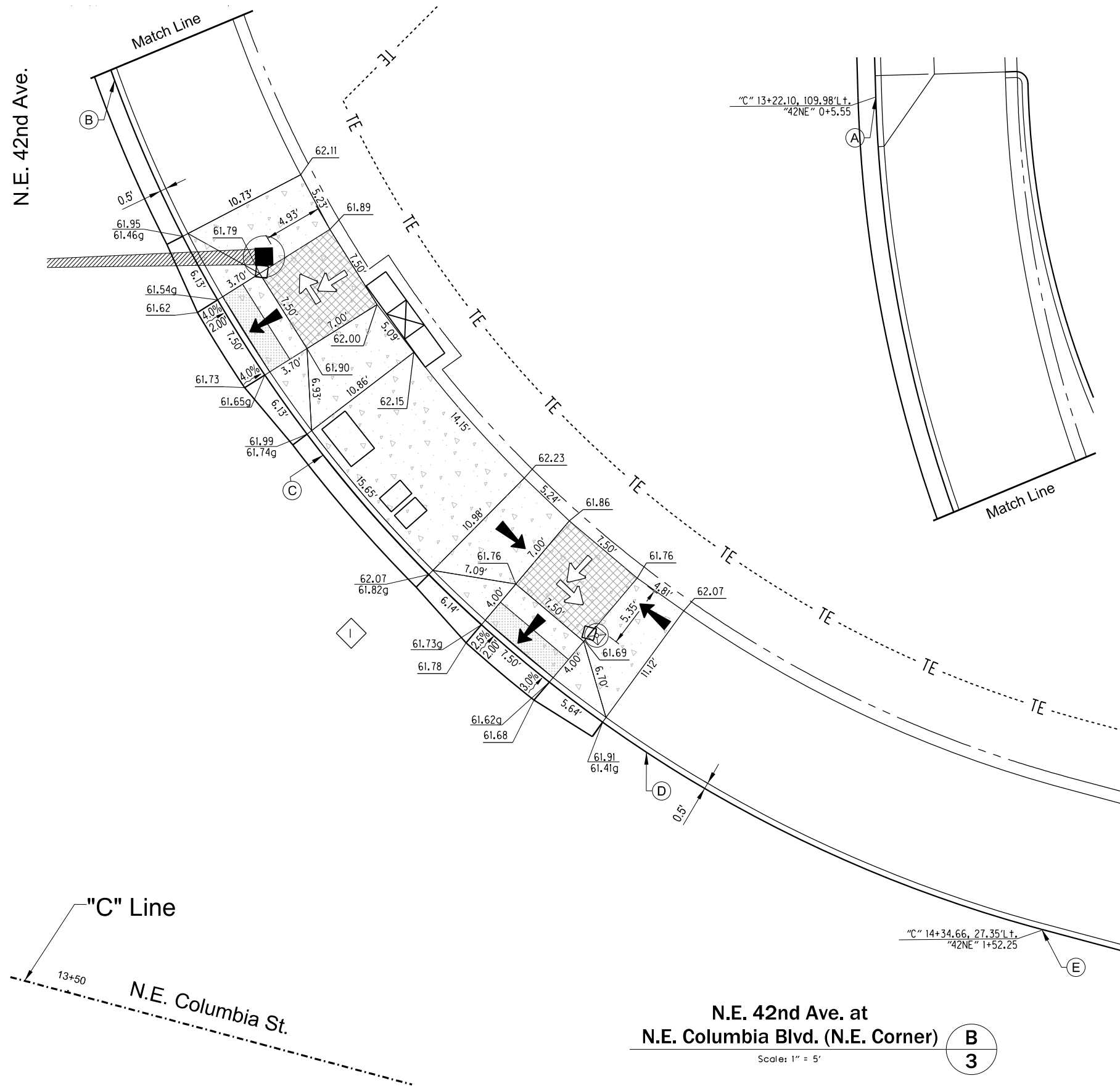
1/4 SECTION 2335
PROJECT NO. T00872
SHEET NO. 2F-1


2/24	Extend concrete gutter limits.	DAH	DESIGNED BY N. Polenske	DATE APPROVED July 2023		APPROVALS: EVA HUNTSINGER, ENGINEERING MANAGER, 84470PE TODD LILES, INTERIM CITY ENGINEER, 18563PE
			CAD BY M. Ruiz-Leon	PB0T REVIEWER R. Bennett		
			CHECKED BY D.Hippenstiel	PB0T SUPV. A. Mansor		
NO.	DATE	DESCRIPTION	APPD.			
REVISION						


PBOT
PORTLAND BUREAU OF TRANSPORTATION
MINGUS MAPPS
TODD LILES, P.E.

CITY OF PORTLAND, OREGON
1851













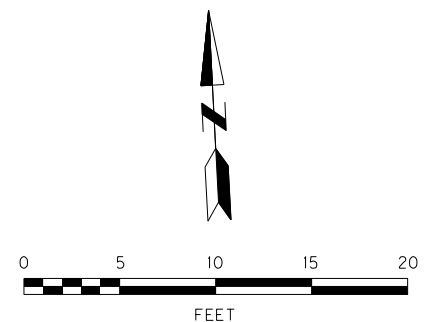
CURB RETURN CUVE DATA TABLE								
CURVE	ARC LENGTH	RADIUS	DELTA	CHORD	START STA.	START OFF.	END STA.	END OFF.
	147.25'	115.08'	73°18'42"	137.41'	"C" 13+22.10	109.98' Lt.	"C" 14+32.26	28.00' Lt.

CURB POINT TABLE						
CURVE	POINT	DESCR.	STATION	OFFSET	GUTTER ELEV.	TOP CURB ELEV.
	A	PC	"C" 13+22.10	109.98' Lt.	G = 60.77	TFC = 61.27
	B	1/4	"C" 13+38.07	77.01' Lt.	G = 61.24	TFC = 61.74
	C	1/2	"C" 13+63.60	50.74' Lt.	G = 61.78	TFC = 62.03
	D	3/4	"C" 13+96.09	33.83' Lt.	G = 61.25	TFC = 61.75
	E	PT	"C" 14+32.26	28.00' Lt.	G = 59.94	TFC = 60.44

*The elevations in this table are for reference only.
See detailed elevation points for curb ramps on this sheet.*

LEGEND

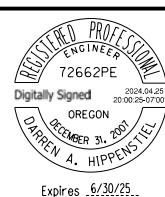
	Landing Area, max 2% slope in all directions
	Slope 8.33% max
	Slope 2% max
	Monolithic curb and sidewalks (595.54 SQ.FT.)
	Truncated dome detectable warning surface (30.68 SQ. FT.)
	Pedestrian Push Button
	Traffic Signal Mast Arm
	Traffic Signal Pole



**KITTELSON
& ASSOCIATES**
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PORTLAND, OR 97204
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2/24	Extend concrete gutter limits.	DAH
NO.	DATE	DESCRIPTION
		REVISION
		APPD.

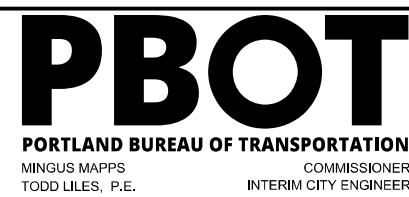
DESIGNED BY <i>N. Polenske</i>	DATE APPROVED <i>July 2023</i>
CAD BY <i>M. Ruiz-Leon</i>	PB0T REVIEWER <i>R. Bennett</i>
CHECKED BY <i>D.Hippenstiel</i>	PB0T SUPV. <i>A. Mansor</i>



APPROVALS:

EVA HUNTSINGER, ENGINEERING MANAGER, 8447DPE

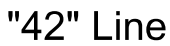
TODD LILES, INTERIM CITY ENGINEER, 18563PE




NE 46th Avenue & Bryant Street LID Phase I

Elevation Detail Plans

74 SECTION
2335
PROJECT NO.
T00872
SHEET NO.
2F-2



SECTION 2335
OBJECT NO. T00872
SHEET NO. 2F-8

	2/24	Widened driveway to 50' and updated elevations.	DAH
NO.	DATE	DESCRIPTION	APPD.
REVISION			

DESIGNED BY <i>N. Polenske</i>	DATE APPROVED <i>July 2023</i>
CAD BY <i>M. Ruiz-Leon</i>	PB0T REVIEWER <i>R. Bennett</i>
CHECKED BY <i>D.Hippenstiel</i>	PB0T SUPV. <i>A. Mansor</i>

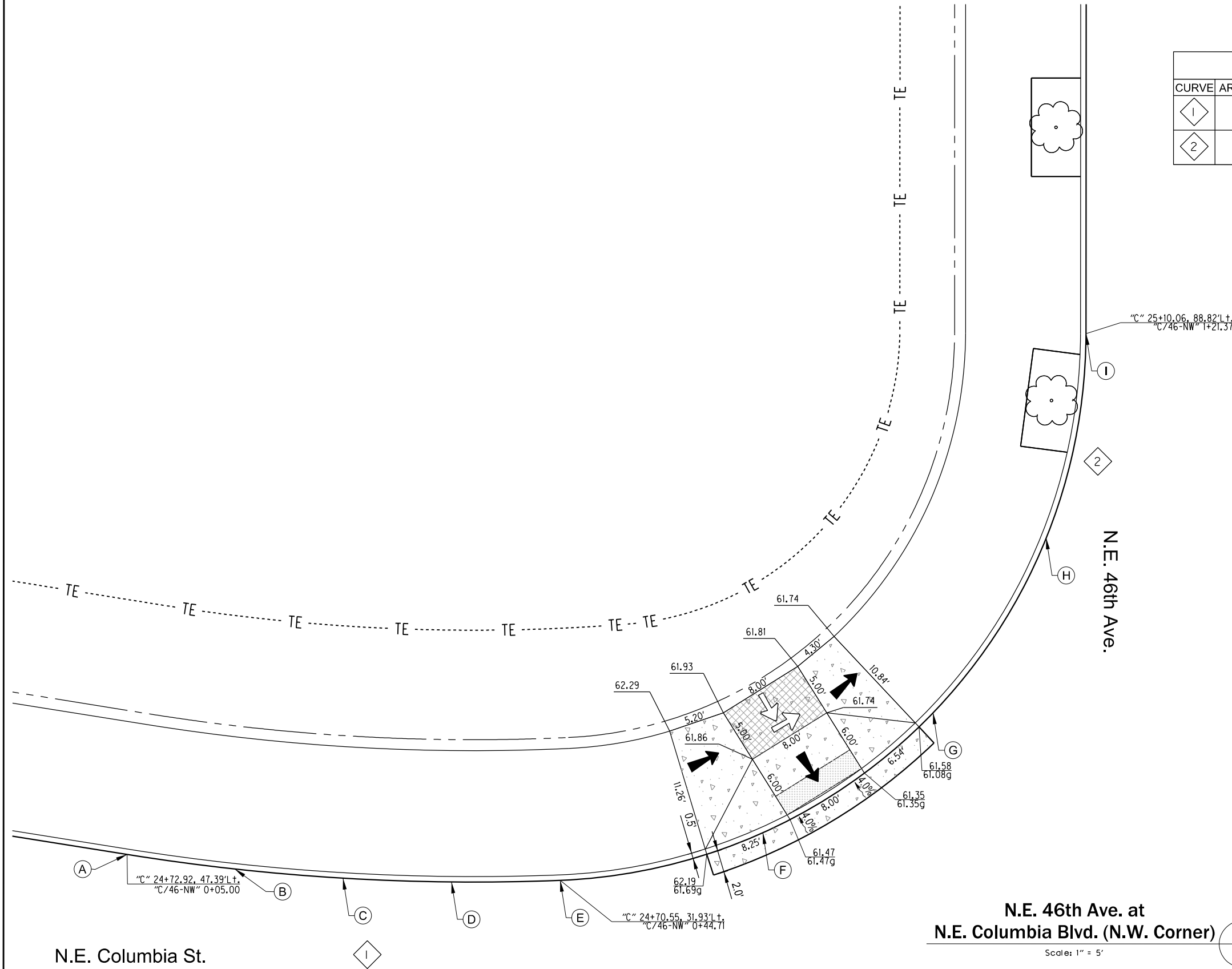


TODD LILES, INTERIM CITY ENGINEER, 18563PE

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PORTLAND BUREAU OF TRANSPORTATION
MINGUS MAPPS
TODD LILES, P.E.

COMMISSIONER
INTERIM CITY ENGINEER





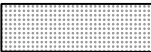


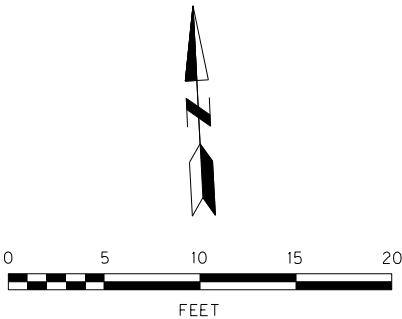


CURB RETURN CUVE DATA TABLE								
CURVE	ARC LENGTH	RADIUS	DELTA	CHORD	START STA.	START OFF.	END STA.	END OFF.
1	39.71'	200.08'	11°22'20"	39.65'	"C" 24+31.11	28.00' Lt.	"C" 24+70.55	31.93' Lt.
2	76.66'	50.08'	87°41'39"	69.39'	"C" 24+70.55	31.93' Lt.	"C" 25+10.06	88.82' Lt.

CURB POINT TABLE						
CURVE	POINT	DESCR.	STATION	OFFSET	GUTTER ELEV.	TOP CURB ELEV.
1	A	PC	"C" 24+31.11	28.00' Lt.	G = 62.98	TFC = 63.48
	B	1/4	"C" 24+41.03	28.25' Lt.	G = 63.00	TFC = 63.50
	C	1/2	"C" 24+50.93	28.98' Lt.	G = 63.03	TFC = 63.53
	D	3/4	"C" 24+60.77	30.21' Lt.	G = 62.89	TFC = 63.39
	E	PCC	"C" 24+70.55	31.93' Lt.	G = 62.44	TFC = 62.94
2	F	1/4	"C" 24+88.14	39.15' Lt.	G = 61.58	TFC = 61.72
	G	1/2	"C" 25+01.75	52.42' Lt.	G = 60.81	TFC = 61.31
	H	3/4	"C" 25+09.43	69.82' Lt.	G = 58.06	TFC = 58.56
	I	PT	"C" 25+10.06	88.82' Lt.	G = 55.31	TFC = 55.81


*The elevations in this table are for reference only.
See detailed elevation points for curb ramps on this sheet.*

LEGEND	
	Landing Area, max 2% slope in all directions
	Slope 8.33% max
	Slope 2% max
	Monolithic curb and sidewalks (279.61 SQ.FT.)
	Truncated dome detectable warning surface (SQ. FT.)

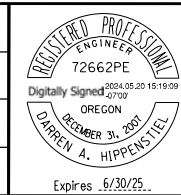


**N.E. 46th Ave. at
N.E. Columbia Blvd. (N.W. Corner)**

Scale: 1" = 5'

	3/24	Updates to project limits. 46th/Columbia intersection and bus pullouts.	DAH
NO.	DATE	DESCRIPTION	APPD.
REVISION			

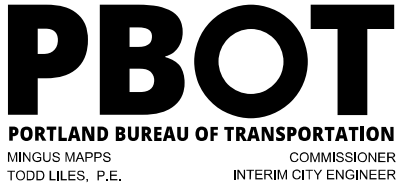
DESIGNED BY <i>N. Polenske</i>	DATE APPROVED <i>July 2023</i>
CAD BY <i>M. Ruiz-Leon</i>	PB0T REVIEWER <i>R. Bennett</i>
CHECKED BY <i>D.Hippenstiel</i>	PB0T SUPV. <i>A. Mansor</i>



APPROVALS:

EVA HUNTSINGER, ENGINEERING MANAGER, 84470PE

TODD LILES, INTERIM CITY ENGINEER, 18563PE

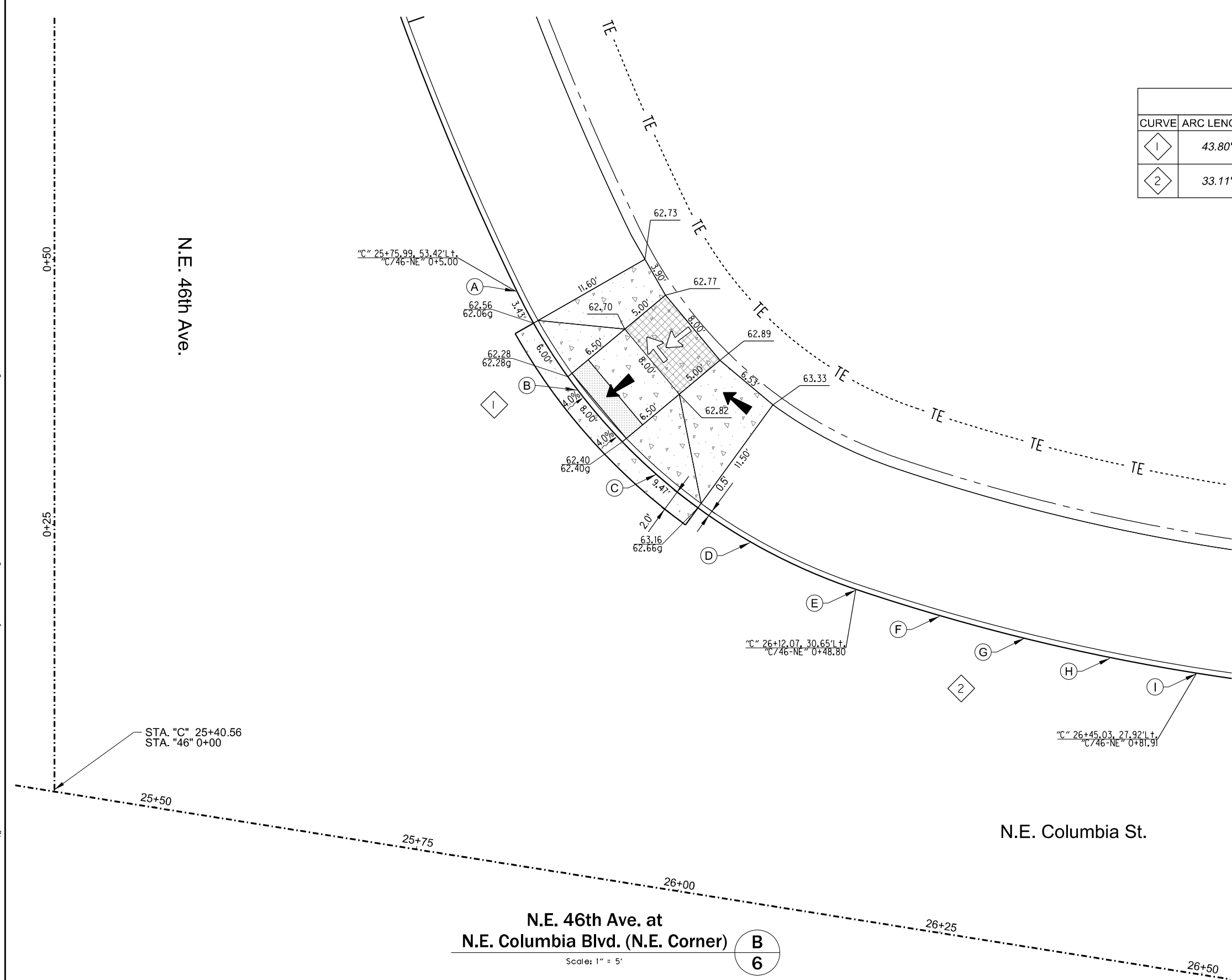


NE 46th Avenue & Bryant Street LID Phase I

Elevation Detail Plans

1/4 SECTION	2335
PROJECT NO.	T00872
SHEET NO.	2F-12

Plot Date: 5/3/2024 2:08:30 PM Filename: H:\23\23593 1/2 PBOT Streets On-Call\001- NE 46th & Bryant LID\design\CD\23593-Elevation Detail Plans-2F-13.dgn



CURB RETURN CUVE DATA TABLE								
CURVE	ARC LENGTH	RADIUS	DELTA	CHORD	START STA.	START OFF.	END STA.	END OFF.
1	43.80'	55.08'	45°33'39"	42.66'	"C" 25+75.99	53.42' Lt.	"C" 26+12.07	30.65' LT.
2	33.11'	200.04'	9°29'1"	33.07'	"C" 26+12.07	30.65' Lt.	"C" 26+45.03	27.92' LT.

CURB POINT TABLE						
CURVE	POINT	DESCR.	STATION	OFFSET	GUTTER ELEV.	TOP CURB ELEV.
1	A	PC	"C" 25+75.99	53.42' Lt.	G = 61.93	TFC = 62.43
	B	1/4	"C" 25+83.12	45.13' Lt.	G = 62.31	TFC = 62.31
	C	1/2	"C" 25+91.74	38.40' Lt.	G = 62.66	TFC = 62.99
	D	3/4	"C" 26+1.06	33.57' Lt.	G = 63.34	TFC = 63.84
	E	PCC	"C" 26+12.07	30.65' Lt.	G = 63.91	TFC = 64.41
2	F	1/4	"C" 26+120.26	29.46' Lt.	G = 63.82	TFC = 64.32
	G	1/2	"C" 26+28.49	28.60' Lt.	G = 63.72	TFC = 64.22
	H	3/4	"C" 26+36.75	28.09' Lt.	G = 63.39	TFC = 63.89
	I	PT	"C" 26+45.03	27.92' Lt.	G = 63.18	TFC = 63.68

The elevations in this table are for reference only.
See detailed elevation points for curb ramps on this sheet.

LEGEND

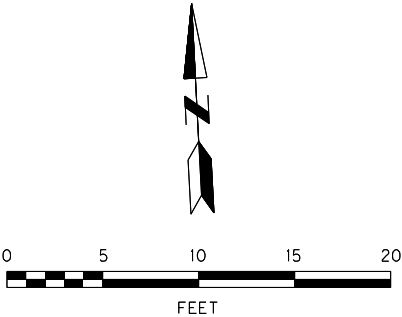
Landing Area, max 2% slope in all directions

Slope 8.33% max

Slope 2% max

Monolithic curb and sidewalks (336.95 SQ.FT.)

Truncated dome detectable warning surface (SQ. FT.)



N.E. 46th Ave. at
N.E. Columbia Blvd. (N.E. Corner)

Scale: 1" = 5'

B
6

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& ASSOCIATES

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3/24	Updates to project limits. 46th/Columbia intersection and bus pullouts.	DAH
NO.	DATE	DESCRIPTION
		REVISION

DESIGNED BY	N. Polenske
CAD BY	M. Ruiz-Leon
CHECKED BY	D.Hippenstiel
DATE APPROVED	July 2023
PBOT REVIEWER	R. Bennett
PBOT SUPV.	A. Mansor



APPROVALS:
EVA HUNTSINGER, ENGINEERING MANAGER, 84470PE
TODD LILES, INTERIM CITY ENGINEER, 18563PE

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TODD LILES, P.E.

COMMISSIONER
INTERIM CITY ENGINEER



NE 46th Avenue & Bryant Street LID Phase I

Elevation Detail Plans

1/4 SECTION	2335
PROJECT NO.	700872
SHEET NO.	2F-13