

Plans for Proposed Project

Grading, Drainage, Paving, Signing, Roadside Development

55th-57th: Killingsworth-Emerson LID, NE

Multnomah County

June 2020

Overall Length of Project - 191 Feet



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.
RULES ARE ALSO LOCATED AT
WWW.DIGSAFELYOREGON.COM
NOTE: THE TELEPHONE NUMBER FOR
THE OREGON UTILITY NOTIFICATION
CENTER IS (503)-232-1987.

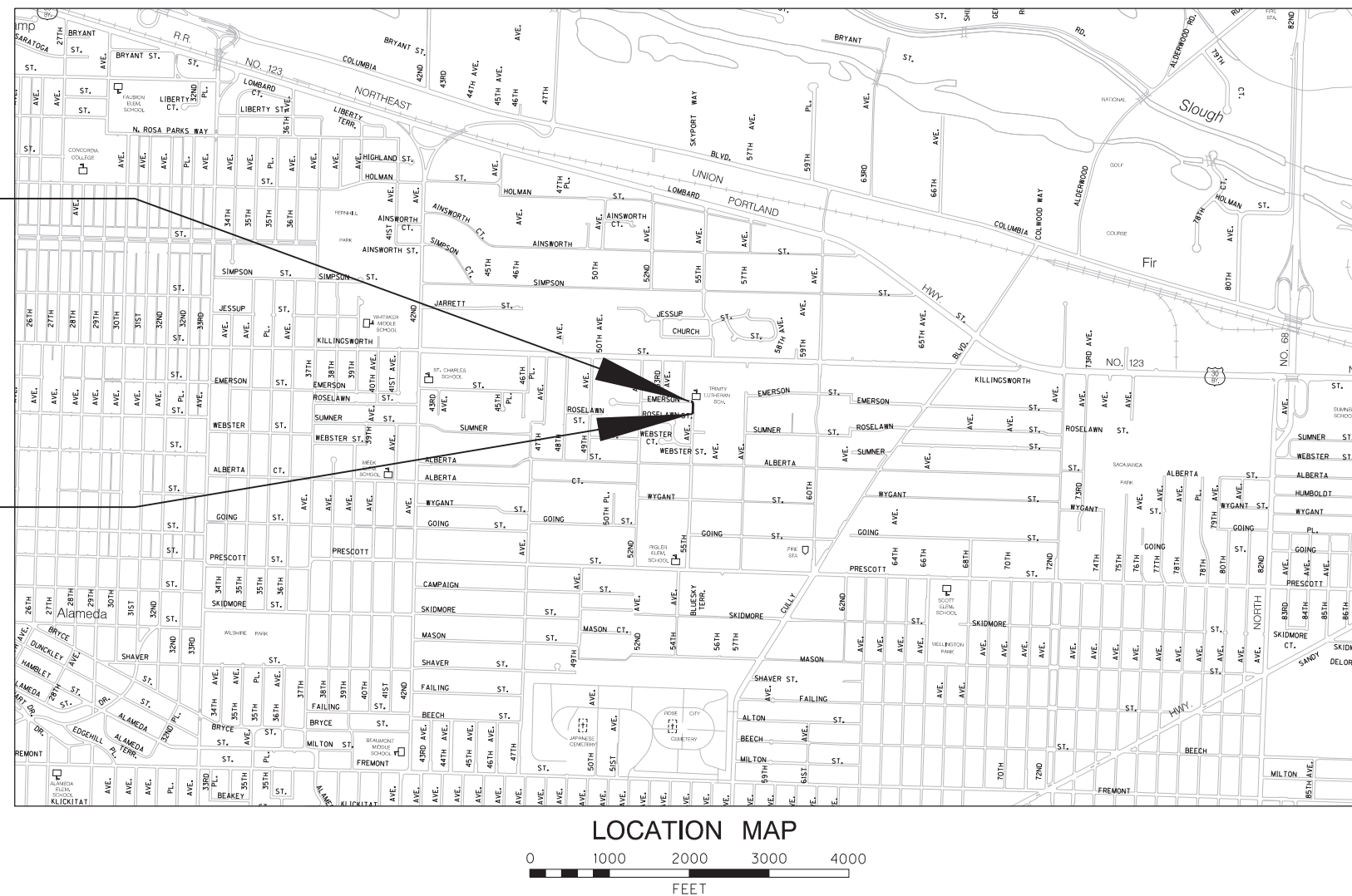
POTENTIAL UNDERGROUND FACILITY OWNERS

Dig Safely.

Website: <http://www.callbeforeyoudig.org/>
 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
CENTURYLINK 1-800-573-1311
BUREAU OF TRANS./MAINT. OPERATIONS 503-823-1700
CITY WATER 503-823-4874
VERIZON 1-800-483-1000



			DESIGNED BY G. Brittle	DATE APPROVED June 2020		APPROVALS:  _____ CIV. PROF. ENGR. NO. 84470PE  _____ CIV. PROF. ENGR. NO. 51538PE			55th-57th: Killingsworth-Emerson LID, NE Cover Sheet	174 SECTION 2536
			CAD BY P. Ferreira	DIV. ENGINEER S. Townsen						PROJECT NO. T00736
			CHECKED BY R. Webb							SHEET NO. 1
NO.	DATE	DESCRIPTION	APPD.							
		REVISION								

NO.	DATE		DESCRIPTION	APPD.
REVISION				

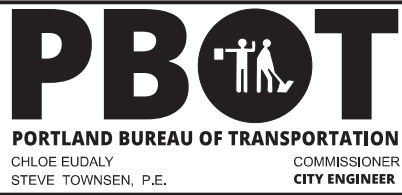
DESIGNED BY <i>G. Brittle</i>	DATE APPROVED <i>June 2020</i>
CAD BY <i>P. Ferreira</i>	DIV. ENGINEER <i>S. Townsen</i>
CHECKED BY <i>R. Webb</i>	



APPROVALS:

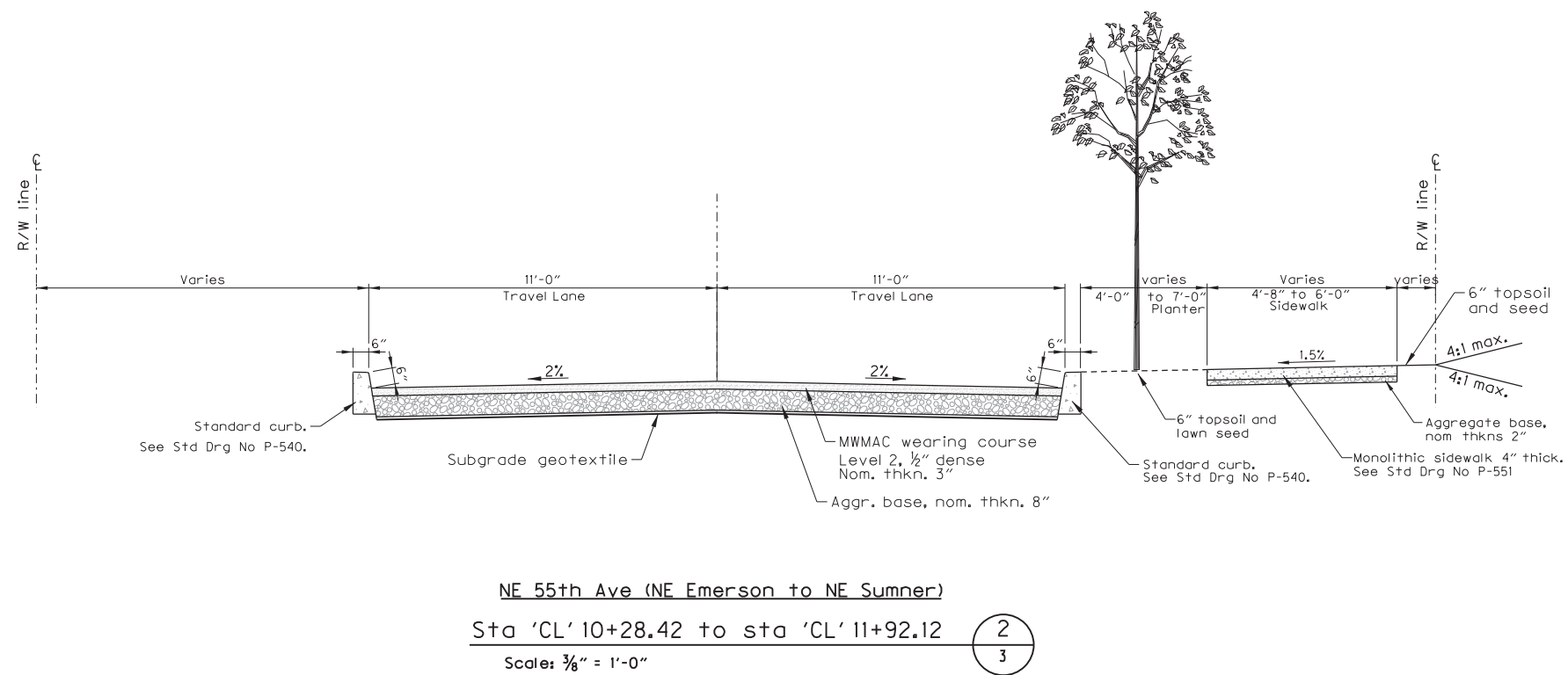
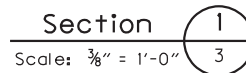
Ea.B. Kuntzgen _____
PFG. PROF. ENGR. NO. 84470PE

Steve Turner _____
G. PROF. ENGR. NO. 51538PE



Index of Sheets

1/4 SECTION
2536
PROJECT NO.
T00736
SHEET NO.
1A

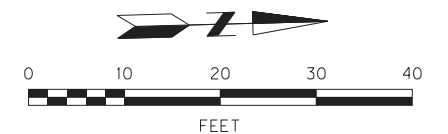
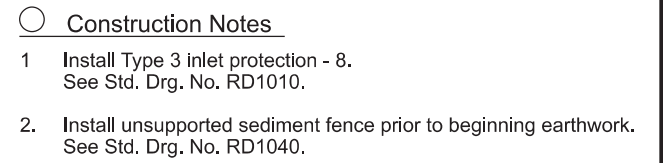


			DESIGNED BY G. Brittle	DATE APPROVED June 2020		APPROVALS:  _____ R.F.G. PROF. ENGR. NO. 84470PE  _____ G. PROF. ENGR. NO. 51538PE	 PORTLAND BUREAU OF TRANSPORTATION CHLOE EUDALY STEVE TOWNSEN, P.E.	 55th-57th: Killingsworth-Emerson LID, NE Typical Sections	174 SECTION 2536
			CAD BY P. Ferreira	DIV. ENGINEER S. Townsen					PROJECT NO. T00736
			CHECKED BY R. Webb						SHEET NO. 2A
NO.	DATE	DESCRIPTION	APPD.						
		REVISION							

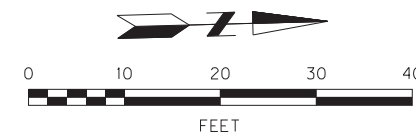


1. INSTALL TREE PROTECTION FENCING (TPF) PRIOR TO ANY GROUND DISTURBING ACTIVITY. INSPECTION AND APPROVAL OF FENCING BY THE URBAN FORESTRY TREE INSPECTOR IS REQUIRED PRIOR TO COMMENCEMENT OF WORK, INCLUDING EQUIPMENT AND MATERIALS STAGING AND MOBILIZATION
2. CALL 823-TREE (8733) TO SCHEDULE THE TREE PROTECTION INSPECTION ONCE 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 TECHNIQUES
 - C. ONCE ROOTS ARE EXPOSED. CONSULTATION WITH THE URBAN FORESTER IS REQUIRED BEFORE CUTTING OF ROOTS.
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
10. ALL TREE REMOVAL SHALL COMPLY WITH THE FEDERAL MIGRATORY BIRD TREATY ACT. SEE THE SPECIAL PROVISIONS FOR REQUIREMENTS PRIOR TO CUTTING OF ANY TREE.
11. FOR ALTERNATE TREE SPECIES OR ALTERNATE TREE PLANTING LOCATION APPROVAL (PRIOR TO PLANTING), CONTACT URBAN FORESTRY AT 503-823-8733; TO LEAVE A MESSAGE FOR THE TREE INSPECTOR PRESS 5.
12. STREET TREES NOT APPROVED FOR REMOVAL THROUGH THIS PERMIT MUST BE PRESERVED AND PROTECTED. DO NOT DAMAGE THE TRUNK, BRANCHES, OR ROOTS. DO NOT STORE MATERIALS OR DRIVE EQUIPMENT WITHIN THE TREE'S ROOTING AREA.
13. TREE PROTECTION FENCE SHALL BE INSTALLED AROUND TREES TO BE PRESERVED WITHIN IMPACT AREA. TREE PROTECTION FENCE SHALL BE 3.5' ORANGE CONSTRUCTION FENCE WHEN LOCATED IN THE RIGHT OF WAY AND 6FT CHAIN LINK FENCE WHEN LOCATED ON PARK PROPERTY.

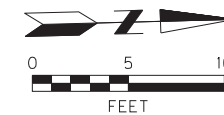
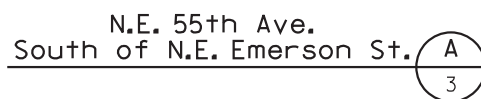
			DESIGNED BY G. Brittle	DATE APPROVED June 2020		APPROVALS:  _____ P.E.G. PROF. ENGR. NO. 84470PE  _____ P.E.G. PROF. ENGR. NO. 51538PE	 PORTLAND BUREAU OF TRANSPORTATION CHLOE EUDALY STEVE TOWNSEN, P.E.	 55th-57th: Killingsworth-Emerson LID, NE Construction Details	1/4 SECTION 2536
			CAD BY P. Ferreira	DIV. ENGINEER S. Townsen					PROJECT NO. T00736
			CHECKED BY R. Webb						SHEET NO. 2B
NO.	DATE	DESCRIPTION	APPD.						
		REVISION							



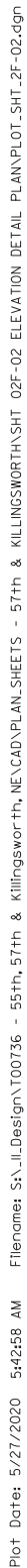
			DESIGNED BY G. Brittle	DATE APPROVED June 2020	 APPROVALS:   R.F.G. PROF. ENGR. NO. 84470PE G. PROF. ENGR. NO. 51538PE	 PORTLAND BUREAU OF TRANSPORTATION CHLOE EUDALY STEVE TOWNSEN, P.E. COMMISSIONER CITY ENGINEER		55th-57th: Killingsworth-Emerson LID, NE Erosion Control Plan	174 SECTION 2536 PROJECT NO. T00736 SHEET NO. 2D
			CAD BY P. Ferreira	DIV. ENGINEER S. Townsen					
			CHECKED BY R. Webb						
NO.	DATE	DESCRIPTION	APPD.						
		REVISION							



				DESIGNED BY G. Brittle	DATE APPROVED June 2020	X  APPROVALS:  _____ REG. PROF. ENGR. NO. 84470PE  _____ REG. PROF. ENGR. NO. 51538PE	 PORTLAND BUREAU OF TRANSPORTATION CHLOE EUDALY STEVE TOWNSEN, P.E. COMMISSIONER CITY ENGINEER		55th-57th: Killingsworth-Emerson LID, NE	Horizontal Alignment Plan	1/4 SECTION 2536 PROJECT NO. T00736 SHEET NO. 2E
			CAD BY P. Ferreira	DIV. ENGINEER S. Townsen							
			CHECKED BY R. Webb								
NO.	DATE	DESCRIPTION	APPD.								
		REVISION									

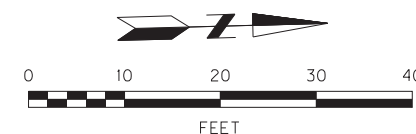
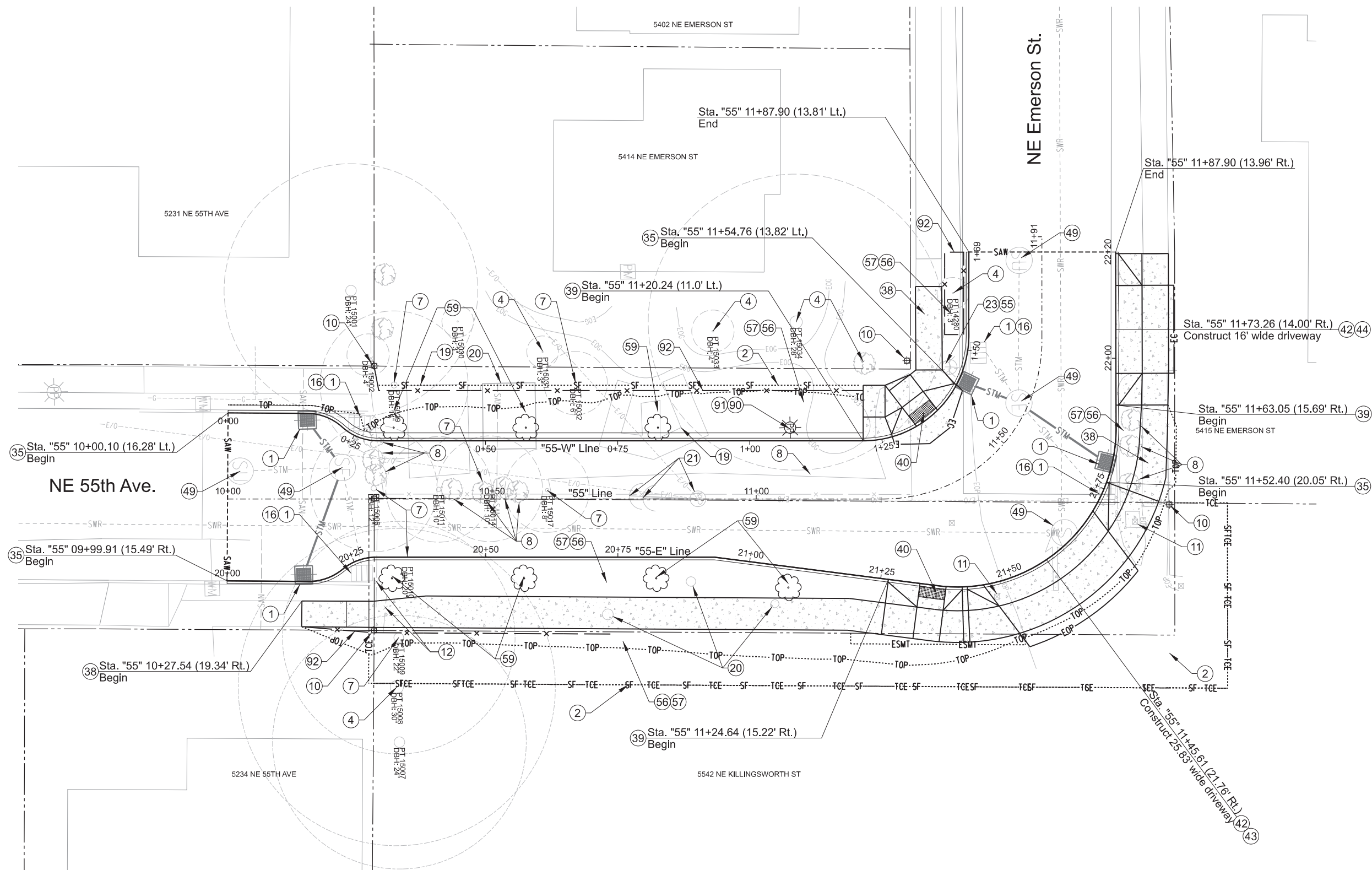


			DESIGNED BY G. Brittle	DATE APPROVED June 2020		APPROVALS:			55th-57th: Killingsworth-Emerson LID, NE Elevation Detail Plan	174 SECTION 2536
			CAD BY P. Ferreira	DIV. ENGINEER S. Townsen		 _____ P.E., PROF. ENGR. NO. 84470PE				PROJECT NO. T00736
			CHECKED BY R. Webb			 _____ :G. PROF. ENGR. NO. 51538PE				SHEET NO. 2F-1
NO.	DATE	DESCRIPTION	APPD.							
		REVISION								

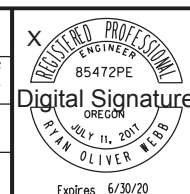


			DESIGNED BY <i>G. Brittle</i>	DATE APPROVED <i>June 2020</i>	 APPROVALS: <i>Ea.B. Huntzger</i> REG. PROF. ENGR. NO. 84470PE <i>Steve Townsen</i> REG. PROF. ENGR. NO. 51538PE	 PORTLAND BUREAU OF TRANSPORTATION CHLOE EUDALY STEVE TOWNSEN, P.E. COMMISSIONER CITY ENGINEER	 55th-57th: Killingsworth-Emerson LID, NE Elevation Detail Plan	1/4" SECTION 2536
			CAD BY <i>P. Ferreira</i>	DIV. ENGINEER <i>S. Townsen</i>				PROJECT NO. T00736
			CHECKED BY <i>R. Webb</i>					SHEET NO. 2F-2
NO.	DATE	DESCRIPTION	APPD.					
REVISION								

- 1 Install inlet protection - 8.
See Std Drg No RD1010.
- 2 Install unsupported sedimental fence prior to
beginning earthwork. See Std Drg No RD1040.
- 4 Save tree - 6.
- 7 Remove tree - 7.
- 8 Remove brush, hedge or other vegetation - 11.
- 10 Protect survey monument.
- 11 Remove gate.
- 12 Remove fence.
- 16 Remove inlet - 4.
- 19 Remove planter.
- 20 Remove structure.
- 21 Relocate utility pole / guy wire (by others).
- 23 Protect Fire Hydrant.
- 35 Construct standard curb.
- 38 Construct concrete sidewalk - 4in.
- 39 Construct monolithic curb and sidewalk.
- 40 Construct monolithic sidewalk ramp.
See Std. Drg. No P-547 and 2F sheets.
- 42 Construct concrete driveway.
See 2F sheet and Std Drg No P-528.
- 43 Construct asphalt driveway connection.
See Std Drg No P-536.
- 44 Construct concrete driveway connections.
See Std. Drg. No. P-536.
- 49 Adjust manhole (minor) - 4.
See Std. Drg. No. P-507.
- 55 Adjust water facility - 6.
- 56 Install topsoil - 6in thick.
- 57 Install lawn seeding.
- 59 Install tree (by others).
- 90 Install 35' long class IV treated wood pole.
- 91 Install new LED cobra head street light (by others).
Contact Stefan Bussey, (503) 823-5556 City of Portland
Street Lighting to coordinate work.
- 92 Install temporary orange plastic mesh fence.
See detail on sheet 2B.

[illegible]

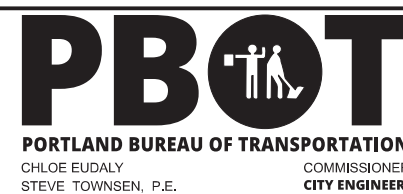
DESIGNED BY <i>G. Brittle</i>	DATE APPROVED <i>June 2020</i>
CAD BY <i>P. Ferreira</i>	DIV. ENGINEER <i>S. Townsend</i>
CHECKED BY <i>R. Webb</i>	



APPROVALS:

E. B. Hestgen _____
P.G. PROF. ENGR. NO. 84470PE

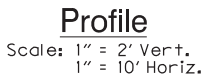
Steve Tamm _____
G. PROF. ENGR. NO. 51538PE



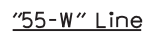
55th-57th: Killingsworth-Emerson LID, NE

Street Plan

1/4 SECTION	2536
PROJECT NO.	T00736
SHEET NO.	3



			DESIGNED BY <i>G. Brittle</i>	DATE APPROVED <i>June 2020</i>	 APPROVALS: <i>Era B. Antington</i> P.E. PROF. ENGR. NO. 84470PE <i>Steve Townsen</i> C.E. PROF. ENGR. NO. 51538PE	 PORTLAND BUREAU OF TRANSPORTATION CHLOE EUDALY STEVE TOWNSEN, P.E. COMMISSIONER CITY ENGINEER	 55th-57th: Killingsworth-Emerson LID, NE	174 SECTION 2536
			CAD BY <i>P. Ferreira</i>	DIV. ENGINEER <i>S. Townsen</i>				PROJECT NO. T00736
			CHECKED BY <i>R. Webb</i>					SHEET NO. 3A
NO.	DATE	DESCRIPTION	APPD.					
REVISION								



Profile

The diagram illustrates a vertical curve design. The existing ground profile is shown as a dashed line, while the proposed road grade is a solid line. The proposed grade starts at station 20+00.00 with an elevation of 144.33. It descends at a grade of -2.75% until station 20+50, then at -2.53% until station 21+01.24 (elevation 141.55). A vertical curve is then established with a length $L = 50.00'$, starting at station 21+01.24 and ending at station 21+51.92 (elevation 140.74). The curve grades are $G1 = +2.531\%$ and $G2 = 0.646\%$. The proposed grade continues at -0.65% until station 21+81.08 (elevation 140.55) and then at 0.56% until station 22+20.09 (elevation 140.77). The existing grade follows a similar but slightly higher path, with a peak around station 20+30.

"55-E" Line

Profile

[illegible]

DESIGNED BY <i>G. Brittle</i>	DATE APPROVED <i>June 2020</i>
CAD BY <i>P. Ferreira</i>	DIV. ENGINEER <i>S. Townsen</i>
CHECKED BY <i>R. Webb</i>	



APPROVALS:

Erz.B. Kuntziger _____
Sten Tamm _____

REG. PROF. ENGR. NO. 84470PE

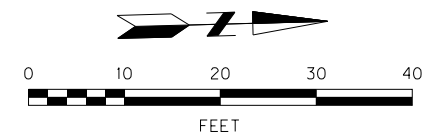
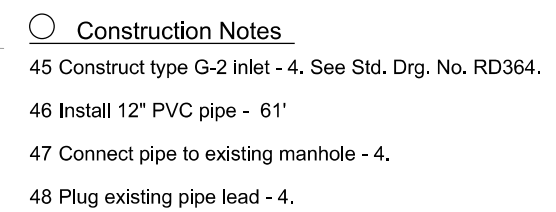
G. PROF. ENGR. NO. 51538PF

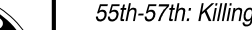


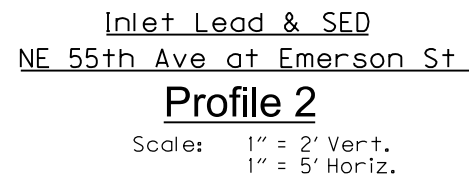
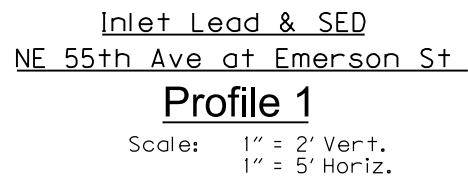
55th-57th: Killingsworth-Emerson LID, NE

Street Profile

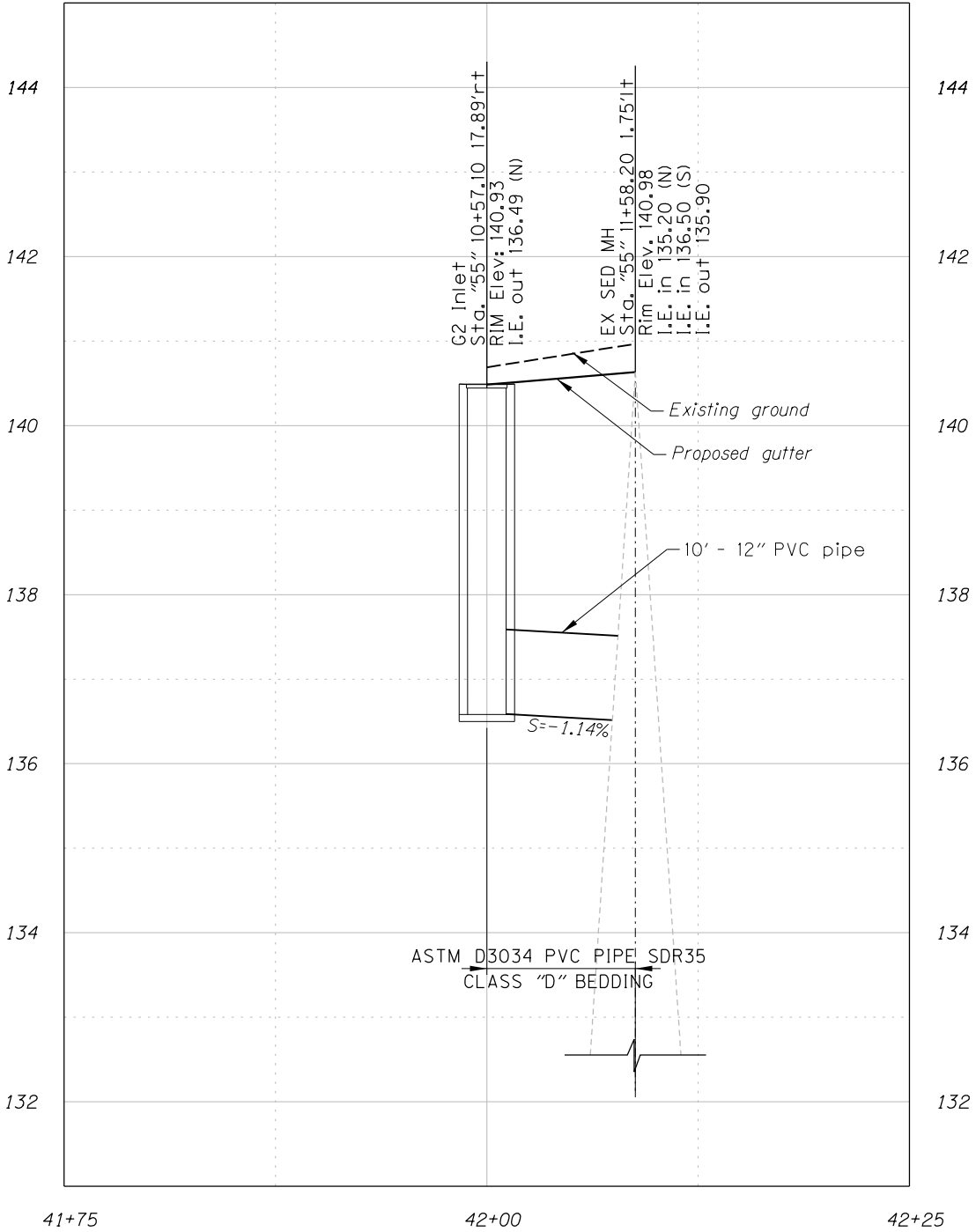
1/4 SECTION
2536
PROJECT NO.
T00736
SHEET NO.
3B



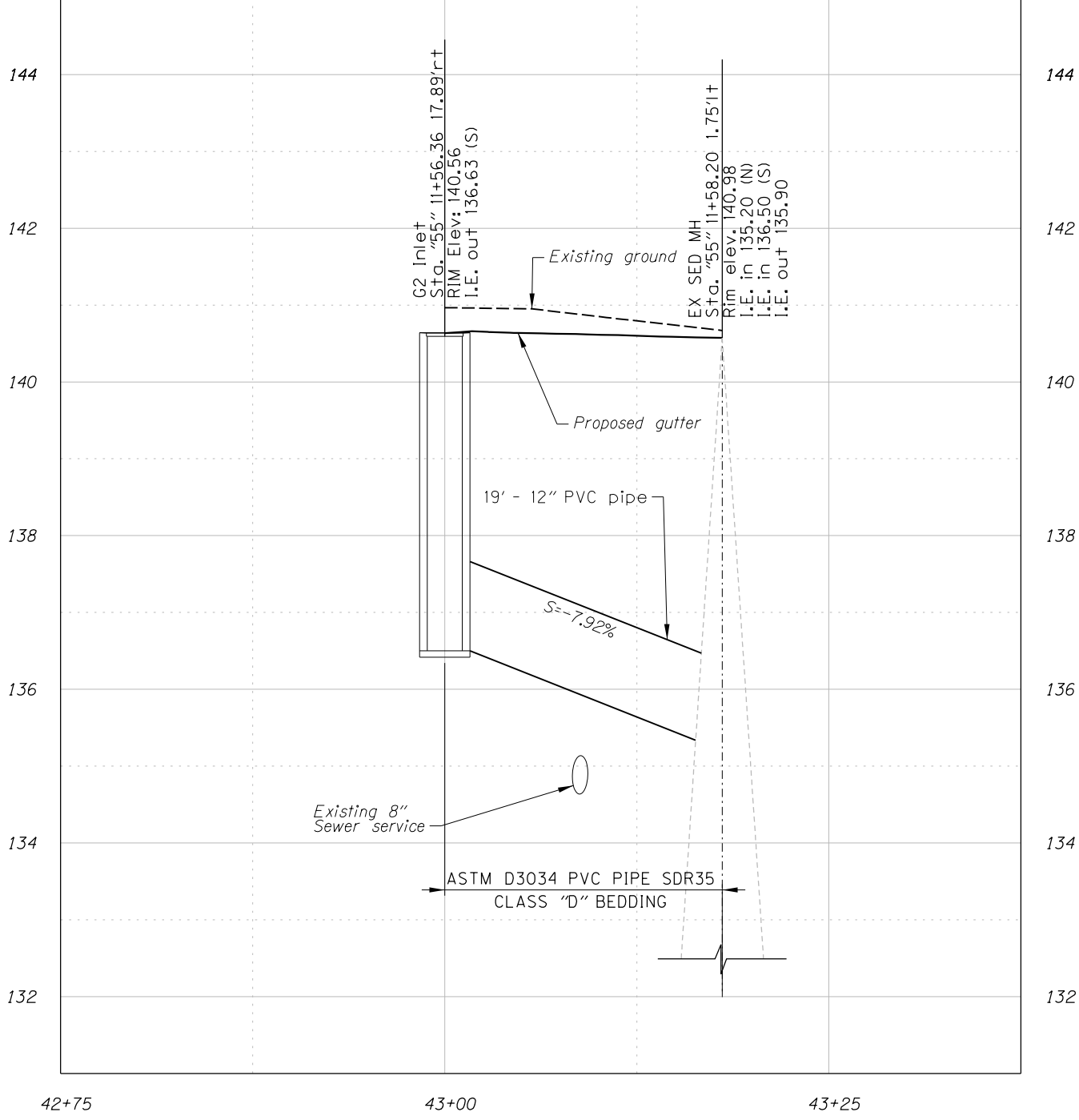
			DESIGNED BY G. Brittle	DATE APPROVED June 2020		APPROVALS:  SUPERVISING ENGINEER REG. PROF. ENGR. NO. 84470PE  CITY ENGINEER REG. PROF. ENGR. NO. 51538PE			55th-57th: Killingsworth-Emerson LID, NE Stormwater Plan	174 SECTION 2536 PROJECT NO. T00736 SHEET NO. D-1
			CAD BY P. Ferreira	DIV. ENGINEER S. Townsen						
			CHECKED BY R. Webb							
NO.	DATE	DESCRIPTION	APPD.							
REVISION										

[illegible]

Plot Date: 6/10/2020 11:31:43 AM
Filename: S:_LIDesign\T00736 - 55th, 57th & Killingsworth, NE\CAD\PLAN_SHEETS - 57th & Killingsworth\SHD-D-01B STORMWATER PROFILES\T00736 - 57th & Killingsworth\SHD-D-01B.dgn



Inlet Lead & SED
NE 55th Ave at Emerson St
Profile 3
Scale: 1" = 2' Vert.
1" = 5' Horiz.

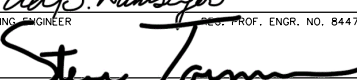


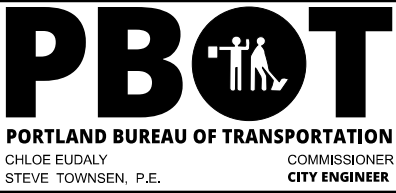
Inlet Lead & SED
NE 55th Ave at Emerson St
Profile 4
Scale: 1" = 2' Vert.
1" = 5' Horiz.

NO.	DATE	DESCRIPTION	APPD.
		REVISION	

DESIGNED BY G. Brittle	DATE APPROVED June 2020
CAD BY P. Ferreira	DIV. ENGINEER S. Townsen
CHECKED BY R. Webb	



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



55th-57th: Killingsworth-Emerson LID, NE

Stormwater Profiles

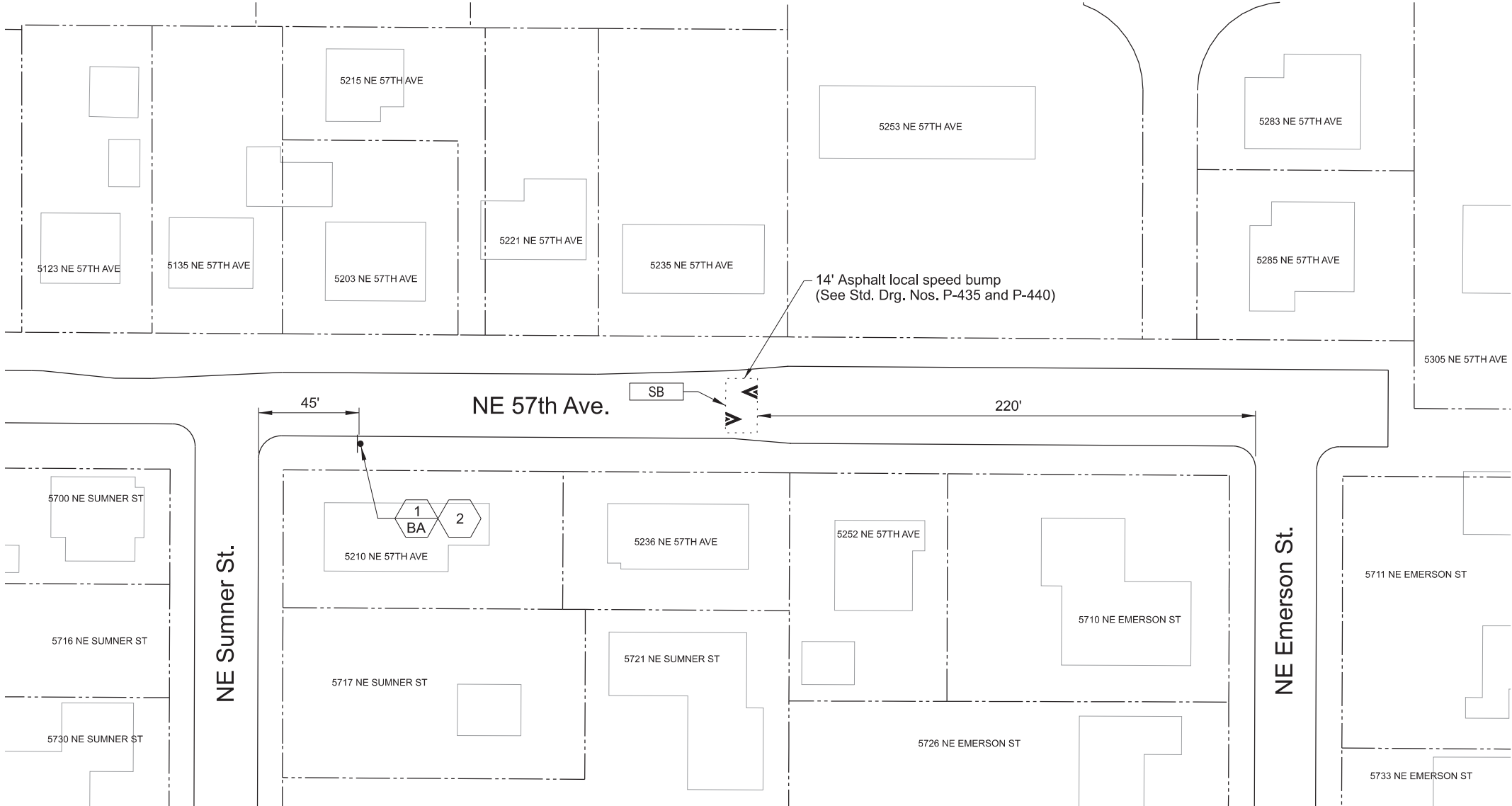
1/4 SECTION 2536
PROJECT NO. T00736
SHEET NO. D-1B



-
- A graphic scale bar labeled "FEET" with markings at 0, 10, 20, 30, and 40. The bar is divided into alternating black and white segments. Above the bar is a north arrow pointing towards the top right.

			DESIGNED BY S. Kao	DATE APPROVED June 2020		APPROVALS:			55th-57th: Killingsworth-Emerson LID, NE Permanent Signing and Striping Plan	174 SECTION 2536
			CAD BY P. Ferreira			Wendy S Peters Cawley  ENGR. NO. 19146PE				PROJECT NO. T00736
			CHECKED BY W. Cawley			 :G. PROF. ENGR. NO. 51538PE				SHEET NO. S-1
NO.	DATE	DESCRIPTION	APPD.							
		REVISION								

Plot Date: 5/27/2020 5:43:00 AM Filename: S:_LDesign\T00736 - 55th, 57th & Killingsworth\NE\CAD\PLAN_SHEETS - 57th & Killingsworth\SH T S-02 PERMANENT SIGNING AND STRIPING PLAN\LOT_SHT_S-02.dgn



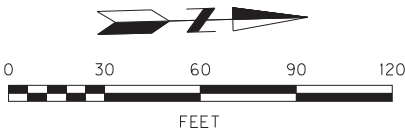
Signing Notes:

- 1.) Refer to traffic sign bubble legend shown on sheet S-3.
- 2.) Refer to traffic sign number legend shown on sheet S-3.
- 3.) See Sign and Post Data Table on Sht. S-4 for sign support and hardware information.



Striping Notes:

- 1.) Remove all conflicting striping and pavement markings.
- 2.) Refer to pavement marking standard detail blocks shown on "P-" sheets and "TM" sheets.
- 3.) All transverse line work, legends, symbols, and arrows shall be Type "B-HS" preformed thermoplastic and shall be 120-125 mills thick.

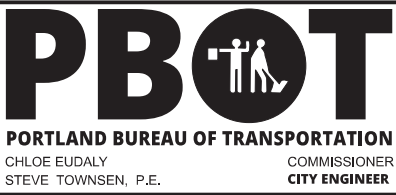


NO.	DATE	DESCRIPTION	APPD.
REVISION			

DESIGNED BY S. Kao	DATE APPROVED June 2020
CAD BY P. Ferreira	
CHECKED BY W. Cawley	



APPROVALS:	
	ENGR. NO. 19146PE
	CITY ENGINEER



55th-57th: Killingsworth-Emerson LID, NE

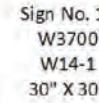
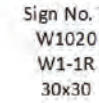
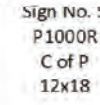
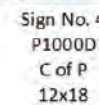
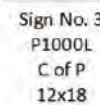
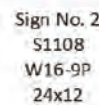
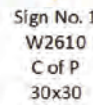
Permanent Signing
and Striping Plan

1/4 SECTION 2536
PROJECT NO. T00736
SHEET NO. S-2

	Install new sign (N)
	Install new sign (N) on new (M) sign support
	Install new sign (N) on on existing sign support (M) sign support
	Reinstall existing sign (N)
	Reinstall existing sign (N) on new (M) sign support
	Reinstall existing sign (N) and reinstall existing sign support (M)
	Remove existing sign (N)
	Remove existing sign (N) and sign support (M)
	Remove and save existing sign (N)
	Remove and save existing sign (N) and remove sign support (M)
	Remove and save existing sign (N) and maintain and protect existing sign support (M)
	Remove and save existing sign (N) and protect existing sign support (M)
	Remove and save existing sign (N) and remove and save existing sign support (M)
	Remove existing sign support (N)
	Maintain and protect existing sign (N) and support (M)

M = Material for Pole or Post

Material options are: BA = Breakaway Anchor
BD = Breakaway Dome
P = Pipe Post



Denotes
Existing
Sign

See Std. Drg No. P-420 for sign layout and dimensions

[illegible]