

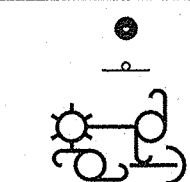
# PUBLIC IMPROVEMENTS

## N HUMBOLDT ST WEST OF N GAY AVE

### LEGEND

#### EXISTING

---	---	RIGHT OF WAY (ROW) LINE
---	---	CENTERLINE
---	---	LOT LINE
---	---	UNDERGROUND LIGHT CONDUIT
---	---	OVERHEAD LINE
XOH	XOH	GAS LINE
XG	XG	COMBINATION SEWER LINE
XCOMBO	XCOMBO	SANITARY SEWER
XSS	XSS	STORM LINE
XSD	XSD	WATER LINE
XW	XW	1' CONTOUR LINE
-549-	-549-	5' CONTOUR LINE
-550-	-550-	CURB
●	●	BOLLARD
○	○	SIGN



UTILITY POLE



ORNAMENTAL STREET LIGHT



GAS VALVE



WATER VALVE



WATER METER



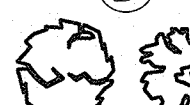
SANITARY SEWER MANHOLE



STORM INLET



STORM SEWER MANHOLE



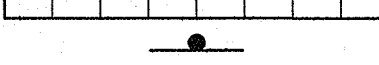
DECIDUOUS TREE

#### PROPOSED

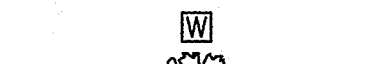
---	---	SAWCUT LINE
---	---	SANITARY SEWER LATERAL
---	---	WATER LINE
---	---	GAS LINE
---	---	STANDARD CURB



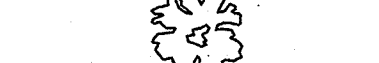
SIDEWALK



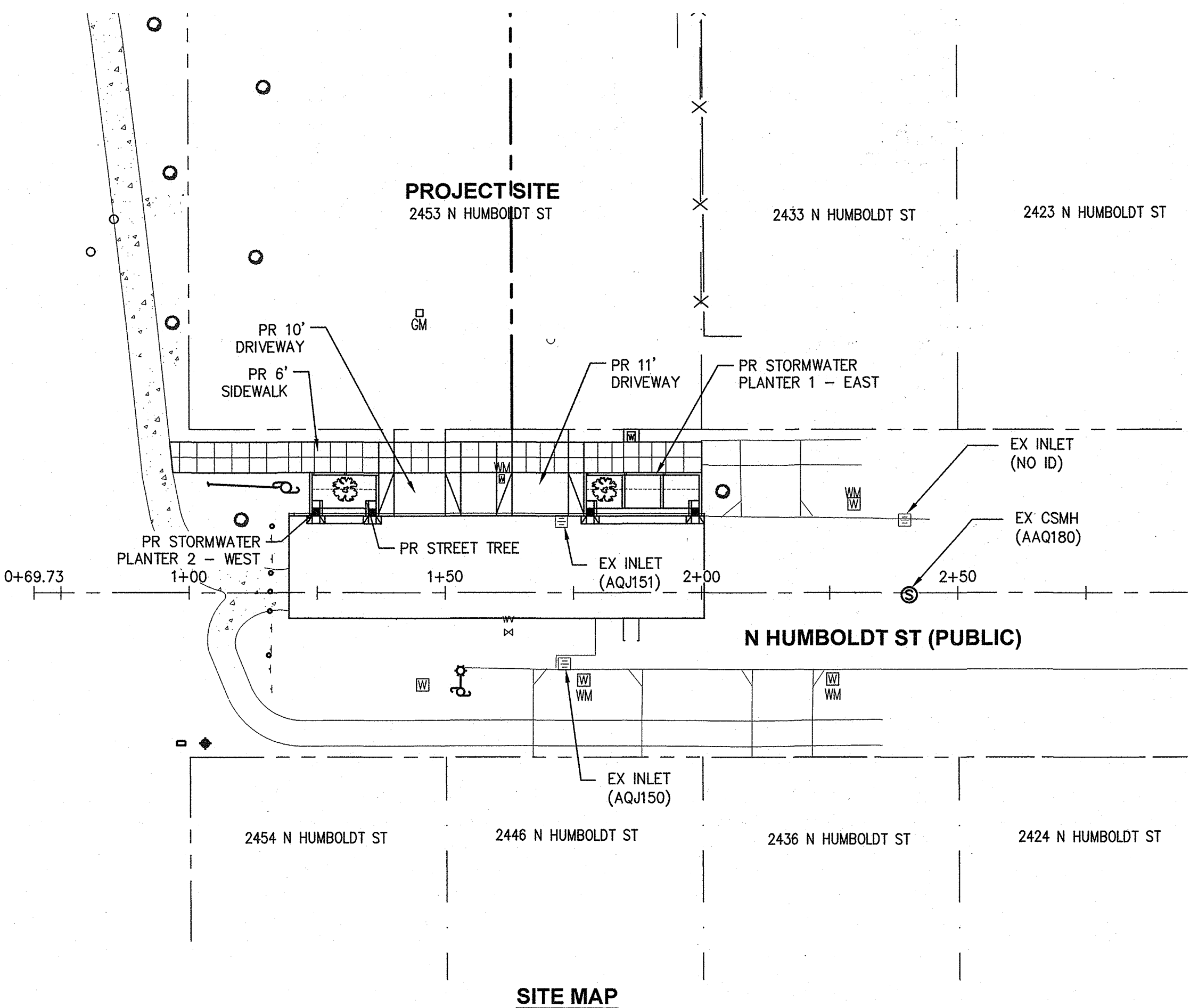
SIGN



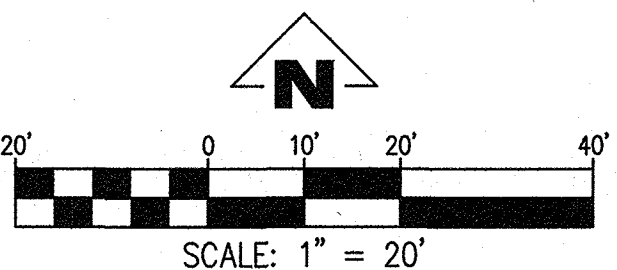
WATER METER



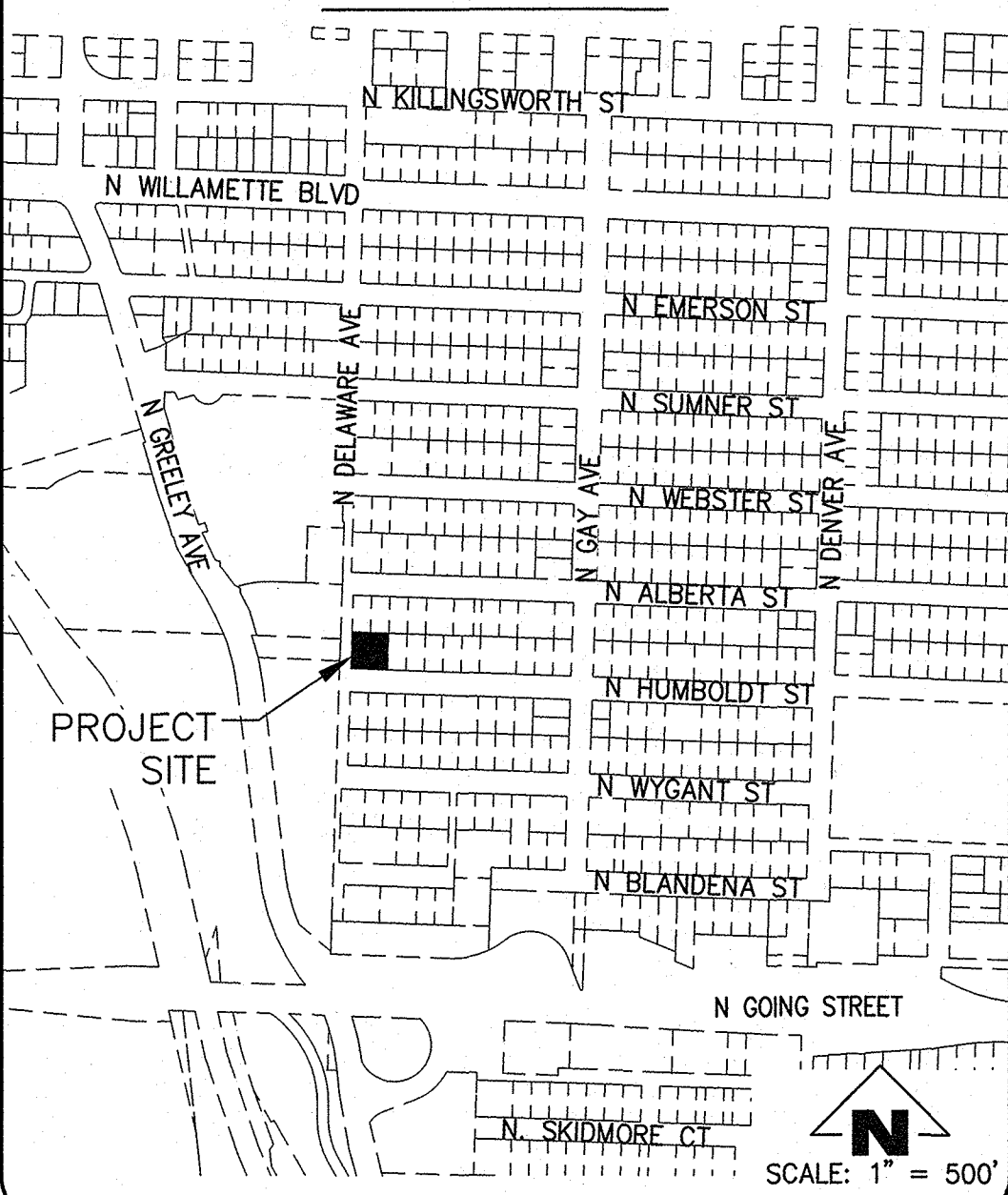
STREET TREE



SITE MAP



### VICINITY MAP



SCALE: 1" = 500'

### DRAWING INDEX

- COVER SHEET
- NOTES AND TYPICAL SECTIONS
- EXISTING CONDITIONS AND DEMOLITION PLAN
- N HUMBOLDT ST PLAN AND PROFILE
- N HUMBOLDT ST GRADING PLAN
- STORMWATER FACILITY PLAN
- INLET AND PLANTER DETAILS
- STANDARD DETAILS
- STANDARD DETAILS
- EROSION CONTROL PLAN
- EROSION CONTROL NOTES AND DETAILS

### 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
CENTURYLINK	1-800-573-1311
CITY BUREAU OF MAINTENANCE	503-823-1700
CITY WATER	503-823-4874
VERIZON	1-800-483-1000

### STORMWATER NARRATIVE

#### PUBLIC

INFILTRATION PLANTERS ARE PROPOSED TO TREAT AND DETAIN 1,710 SF OF DEVELOPED IMPERVIOUS AREA. STORMWATER COLLECTED ON N HUMBOLDT ST WILL BE TREATED AND DETAINED IN 3 PUBLIC STORMWATER FACILITIES. ANY OVERFLOW FROM FACILITIES WILL FLOW INTO EXISTING INLET AQJ151 IN THE COMBINED SEWER SYSTEM ON N HUMBOLDT ST OR FLOW WEST TOWARDS MADRONA CITY PARK.

#### PRIVATE

BASED THE INFILTRATION TESTING RESULTS, THE ONSITE STORMWATER DISCHARGE WILL OCCUR IN ON-SITE DRYWELLS

### ENGINEER'S NOTE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT THOSE SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS.

THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

### PROJECT CONTACTS

#### APPLICANT:

YVES LABISSIERE  
2453 N HUMBOLDT ST  
PORTLAND, OR 97217  
503-358-3566  
E-MAIL: LABISSIERE@GMAIL.COM

#### CIVIL ENGINEER:

EMERIO DESIGN, LLC  
6445 SW FALLBROOK PL  
BEAVERTON, OR 97008  
(503) 639-9592 (F)  
CONTACT: STEVE HANSEN, P.E.  
(503) 746-8812 (P)

#### SURVEYOR:

ZTEC ENGINEERS INC.  
3880 S.E. 8TH AVE., SUITE 280  
PORTLAND, OR 97202  
CONTACT: CHRIS FISCHBORN  
P: 503-235-8785  
F: 503-233-7889

### ABBREVIATIONS

EX - EXISTING	RT - RIGHT	ELEV - ELEVATION
PR - PROPOSED	LT - LEFT	BPZ - BACK OF PEDESTRIAN ZONE ELEVATION
SF - SQUARE FEET	COP - CITY OF PORTLAND	DG - DEPRESSED GUTTER ELEVATION
ROW - RIGHT OF WAY	STD - STANDARD	DN - DRAINAGE NOTCH ELEVATION
STA - STATION	DWG - DRAWING	FG - TOPSOIL FINISHED GRADE ELEVATION
CL - CENTERLINE	SS - SANITARY SEWER	G - GUTTER ELEVATION
PC - POINT OF CURVATURE	MH - MANHOLE	SW - SIDEWALK ELEVATION
PT - POINT OF TANGENCY	CO - CLEANOUT	TC - TOP OF CURB ELEVATION
PVC - POINT OF VERTICAL CURVATURE	CSP - CORRUGATED STEEL PIPE	TP - TOP OF PAVEMENT ELEVATION
PVT - POINT OF VERTICAL TANGENCY	CI - CAST IRON	TW - TOP OF WALL ELEVATION
		TD - TOP OF CHECKDAM ELEVATION

### SITE INFORMATION

SITE ADDRESS:  
2453 N HUMBOLDT ST  
PORTLAND, OR 97217

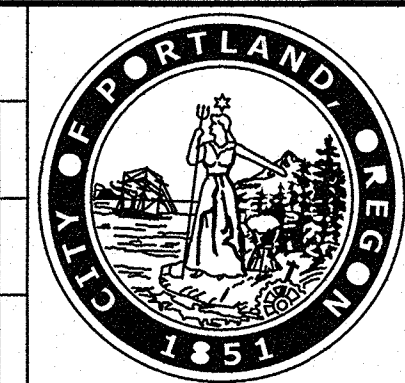
LOTS 23 & 24, BLOCK 2 OF "BRAINARD TRACT" LOCATED IN THE N.E. 1/4 SECTION 21, T.1N., R.1E., W.M., IN THE CITY OF PORTLAND, MULTNOMAH COUNTY, OREGON

### BENCH MARK INFORMATION

THE DATUM FOR THIS SURVEY IS BASED UPON CITY OF PORTLAND BENCHMARK NO. 458, BRASS DISC IN CURB AT THE N.W. CORNER OF N SUMNER ST. & N. GAY ST. ELEVATION = 193.41', COP DATUM.

NO.	DATE	DESCRIPTION	APPD.
		REVISIONS	

CONSTRUCTED BY	DESIGNED BY	DATE APPROVED
	SWH	
PROJECT COMPLETED	CAD BY	SECTION ENGR
	SWH	
MAP CORRECTED BY	CHECKED BY	BES REVIEWER
	SWH	
CHECKED BY		PBOT REVIEWER
		AM

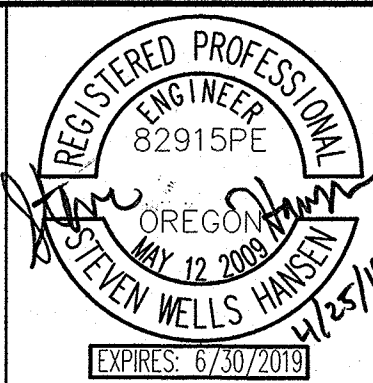


APPROVALS:	
BES CHIEF ENGINEER	5/13/19
PBOT PRINCIPAL ENGINEER	5/14/19
PBOT CITY ENGINEER	5/15/19

BUREAU OF ENVIRONMENTAL SERVICES	
NICK FISH	COMMISSIONER
WILLIAM F. RYAN, P.E.	CHIEF ENGINEER

BUREAU OF TRANSPORTATION	
CHLOE EUDALY	COMMISSIONER
STEVE TOWNSEN, P.E.	CITY ENGINEER

**EMERIO Design**  
6445 SW FALLBROOK PL, STE 100  
BEAVERTON, OREGON 97008  
TEL: (503) 746-8812  
www.emeriodesign.com



PUBLIC IMPROVEMENTS	
N HUMBOLDT ST WEST OF N GAY AVE	
COVER SHEET	

BES JOB NO.	EP492
PBOT JOB NO.	TH0793
SHEET NO.	1 OF 9



GENERAL NOTES

1. ERRORS AND OMISSIONS ARE THE RESPONSIBILITY OF THE 'ENGINEER OF RECORD'. IF ERRORS OR OMISSIONS ARE FOUND AFTER THE PERMIT HAS BEEN ISSUED, THE PERMITTEE OR ITS CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD (STEVE HANSEN OF EMERIO DESIGN AT 503-746-8812) TO HAVE THE CORRECTIONS MADE. ALL CHANGES WILL REQUIRE THE APPROVAL OF THE CITY ENGINEER PRIOR TO THE WORK BEGINNING.
2. THE CONTRACTOR SHALL HAVE AT ALL TIMES ON-SITE, THE APPROVED CONSTRUCTION DRAWINGS & SPECIAL SPECIFICATIONS, CITY OF PORTLAND STANDARD SPECIFICATIONS & STANDARD DRAWINGS, AND ALL OTHER APPLICABLE SPECIFICATIONS BOOKS AND MANUALS. ELECTRONIC EQUIVALENT ARE ACCEPTABLE.
3. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THESE DRAWINGS AND THE APPLICABLE REQUIREMENTS OF THE 2010 EDITION OF THE CITY OF PORTLAND STANDARD CONSTRUCTION SPECIFICATIONS AND ALL REVISIONS AND SPECIAL SPECIFICATIONS.
4. A PRECONSTRUCTION CONFERENCE WITH CITY STAFF AND AN APPROVED TEMPORARY TRAFFIC CONTROL PLAN (ISSUED IN CONJUNCTION WITH A STREET /SIDEWALK CLOSURE PERMIT) ARE REQUIRED BEFORE COMMENCING WORK. SEE PERMIT FOR SCHEDULING A PRECONSTRUCTION CONFERENCE AND ACQUISITION OF THE TTCP.
5. ELEVATIONS ARE BASED ON CITY OF PORTLAND DATUM FROM BENCH MARK NO. 458, ELEVATION = 193.41, LOCATED AT THE N.W. CORNER OF N. SUMNER ST. & N. GAY ST.
6. ATTENTION EXCAVATORS: 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 THESE RULES FROM THE CENTER BY CALLING [503.232.1987]. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CALL CENTER. YOU MUST NOTIFY THE CENTER AT LEAST 2 BUSINESS DAYS, BUT NOT MORE THAN 10 BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL [811 OR 1-800-332-2344].

ENCROACHMENTS

7. STREET FURNISHINGS ARE SHOWN FOR REFERENCE ONLY. THE INSTALLATION OF ALL STREET FURNITURE INCLUDING BUT NOT LIMITED TO BENCHES, NON CITY INSTALLED BIKE RACKS, GARBAGE CANS, ELECTRICAL SYSTEMS (CONDUIT, CONDUCTORS, OUTLETS), AND PUBLIC ART, ARE NOT AUTHORIZED UNDER THIS PERMIT. A SEPARATE REVOCABLE PERMIT IS REQUIRED.

UNANTICIPATED CONTAMINATED MATERIAL

8. REMOVE AND DISPOSE (AT A PROPER LOCATION OR LANDFILL) ALL MATERIALS EXCAVATED FROM WORK IN THE RIGHT-OF-WAY. FOR DISPOSAL ON PRIVATE PROPERTY, SECURE A FILL PERMIT, PRIOR TO BEGINNING WORK FROM THE BUREAU OF DEVELOPMENT SERVICES (BDS). PROVIDE A COPY OF THE APPROVED FILL PERMIT TO THE STREET CONSTRUCTION INSPECTOR.

FOR UNANTICIPATED CONTAMINATED MEDIA ENCOUNTERED, THE PERMITTEE/APPLICANT OR ITS AGENT SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE MANAGEMENT, AND DISPOSAL OF CONTAMINATED MEDIA ENCOUNTERED. THE PERMITTEE IS ALSO RESPONSIBLE FOR ALL RESULTANT DELAYS.

THE PERMITTEE OR ITS AGENT SHALL PROVIDE THE CITY (ENGINEERING AND INSPECTION) WITH COPIES OF ALL DISPOSAL PERMITS FROM THE PERMITTED DISPOSAL FACILITY, ANALYTICAL RESULTS USED TO GAIN ACCEPTANCE OF THE CONTAMINATED MEDIA, AND DISPOSAL RECEIPTS/DAILY WEIGH SLIPS. DAILY WEIGH SLIP AMOUNTS SHALL BE CHECKED AGAINST INSPECTOR'S DAILY REPORTS. THE PERMITTEE MUST USE AN OREGON FACILITY FOR DISPOSAL OF THE CONTAMINATED MEDIA.

UTILITIES

9. UTILITIES SHOWN ON THESE PLANS ARE FOR INFORMATION AND COORDINATION PURPOSES ONLY AND ARE NOT AUTHORIZED FOR INSTALLATION UNDER THE PUBLIC STREET IMPROVEMENT PERMIT. PRIVATE AND PUBLIC UTILITY COMPANIES ARE REQUIRED TO SECURE SEPARATE UTILITY PERMITS FROM THE PBOT FOR ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
10. COORDINATION OF ALL UTILITY RELOCATES, REMOVALS, OR INSTALLATION WITHIN THE LIMITS OF WORK IS THE RESPONSIBILITY OF THE PERMITTEE/CONTRACTOR.
11. STORM AND SANITARY SEWERS ARE BEING CONSTRUCTED UNDER A SEPARATE PERMIT AS APPROVED BY THE BUREAU OF ENVIRONMENTAL SERVICES.
12. WATER MAINS AND SERVICES ARE BEING CONSTRUCTED UNDER A SEPARATE PERMIT AS APPROVED BY THE WATER BUREAU.

STREET PAVEMENT

13. ALL MANHOLE LIDS AND VALVE BOXES SHALL BE ADJUSTED TO FINISHED STREET GRADE.
14. THE STREET INSPECTOR WILL MAKE THE FINAL DETERMINATION OF THE LIMITS OF PAVEMENT RESTORATION, INCLUDING SAWCUT LINES AND SKIN PATCHING. THE PERMITTEE/CONTRACTOR SHALL CONSULT WITH THE STREET INSPECTOR PRIOR TO SAWCUTTING OR DEMOLISHING OF PAVEMENT.
15. SAWCUTS SHALL BE STRAIGHT MATCHLINES TO CREATE A BUTT JOINT BETWEEN THE EXISTING PAVEMENT AND NEW PAVEMENT AND ALL NEW PAVEMENT JOINTS SHALL BE SAND SEALED.
16. EXISTING PAVEMENT SECTION WIDTHS OF 2 FEET OR LESS BETWEEN PROPOSED SAWCUT AND EXISTING PAVEMENT EDGE (I.E. UTILITY TRENCH REPAIR), SHALL BE RESTORED PER STD. DWG. P-505.
17. PAVEMENT SECTION SHALL BE AS SHOWN ON THE STREET TYPICAL SECTION(S) OR MATCH EXISTING PAVEMENT IF EXISTING IS A THICKER SECTION.

CURBS, SIDEWALKS, AND DRIVEWAYS

18. UTILITY LIDS, MANHOLE COVERS, VALVE COVERS (THAT ARE NOT SHOWN ON THESE CONSTRUCTION DRAWINGS) ARE NOT ALLOWED IN THE THROUGH PEDESTRIAN ZONE. THEY MUST BE PLACED IN THE SIDEWALK FURNISHING OR BUILDING ZONE IF THE PROPER PBOT UTILITY PERMIT HAS BEEN SECURED.
19. FULL HEIGHT CURBS SHALL BE CONSTRUCTED AT ALL LOCATIONS UNLESS A NEW DRIVEWAY IS CONSTRUCTED AT THE SAME TIME AS THE CURB.
20. ALL SIDEWALK CONTRACTION JOINTS SHALL BE PER SECTION 00759.49 - "CONTRACTION JOINTS" OF THE STANDARD CONSTRUCTION SPECIFICATION AND CITY STANDARD DWG P-551.
21. NO FUTURE DRIVEWAYS SHALL BE CONSTRUCTED UNLESS THERE IS A BUILDING PERMIT ISSUED FOR AN ON-SITE PARKING SPACE, OR OTHER APPROVAL FROM BDS.
22. CONTRACTOR MAY USE CONCRETE OR ASPHALT CONCRETE FROM THE PRE-APPROVED MIX DESIGNS LIST IF AVAILABLE. IF NOT, THE CONTRACTOR WILL NEED TO SUBMIT A MIX DESIGN FOR APPROVAL.
23. USE ONLY APPROVED DETECTABLE WARNING DEVICES FROM THE CITY'S CONSTRUCTION PRODUCTS LIST (CPL).
24. ALL DRIVEWAYS ARE REQUIRED TO HAVE A MINIMUM OF 3 FEET OF HARD SURFACING BEHIND SIDEWALK (SEE STD DWG P-536).

STORM SEWER PIPE

25. THE ACCEPTABLE INLET LEAD PIPE MATERIALS ARE AS FOLLOWS:
- C.S.P. ASTM C 14, CLASS 3 WITH CLASS 'B' BEDDING AND BACKFILL
  - HDPE D 3035 SDR 26 WITH FLEXIBLE PIPE BEDDING AND GRANULAR BACKFILL
  - PVC ASTM D 3034 SDR 35 WITH FLEXIBLE PIPE BEDDING AND GRANULAR BACKFILL
  - PIPE BEDDING AND BACKFILL PER STANDARD PLAN NOS. P-100 AND P-101.
  - SURFACING PER STD. DWG. P-515, P-516 AND P-517.
26. FOR PLUGGING OF ABANDONED SEWER PIPES, AND FILLING ABANDONED PIPES, MANHOLES, AND CATCH BASINS, SEE SECTIONS 00490.43 AND 00490.44 RESPECTIVELY OF THE STANDARD SPECIFICATION.

CATCH BASINS AND INLETS

27. ALL CATCH BASIN AND INLETS SHALL BE CAST-IN-PLACE. CONSTRUCT CAST-IN-PLACE CATCH BASINS AND INLETS ACCORDING TO SECTION 00470.

TRAFFIC AND PARKING CONTROL

28. THE CONTRACTOR MUST ACQUIRE AN APPROVED TEMPORARY STREET USE PERMIT (TSUP) PRIOR TO CLOSURE OF ANY STREET, SIDEWALK, TRAVEL LANE OR PARKING LANE. THE TSUP IS ACQUIRED FROM THE PERMIT CENTER LOCATED AT 1900 SW 4TH AVENUE.
29. THE CONTRACTOR SHALL NOT REMOVE OR COVER ANY TRAFFIC CONTROL SIGNS, PAVEMENT MARKINGS, OR BARRICADES THAT ARE NOT IDENTIFIED ON THE APPROVED TEMPORARY TRAFFIC CONTROL PLAN.
30. THE CONTRACTOR SHALL MAINTAIN ALL NECESSARY TEMPORARY TRAFFIC CONTROL DEVICES (INCLUDING BUT NOT LIMITED TO THE FOLLOWING -SIGNS, PAVEMENT MARKINGS, AND BARRICADES) UNTIL THE PERMANENT TRAFFIC CONTROL DEVICES ARE INSTALLED.
31. WHEN WORK INTERFERES WITH THE OPERATION OF A TRIMET BUS OR BUS STOP, CONTACT TRIMET AT 503-962-4949 A MINIMUM OF 14 DAYS PRIOR TO CLOSING OR DISRUPTING TRIMET'S OPERATION.
32. THE CONTRACTOR SHALL INSTALL OR REINSTALL ALL PERMANENT TRAFFIC CONTROL SIGNING, CURB AND PAVEMENT MARKINGS, AND BARRICADES.
33. THE CONTRACTOR SHALL SUBMIT MATERIALS LIST FOR APPROVAL 14 DAYS PRIOR TO INSTALLING PERMANENT TRAFFIC CONTROL SIGNING, CURB AND PAVEMENT MARKINGS, AND BARRICADES.
34. ALL NEW SIGN MATERIALS SHALL COMPLY WITH SECTION 2910 OF THE CITY OF PORTLAND STANDARD CONSTRUCTION SPECIFICATIONS. ALL SIGNS SHALL BE TYPE III OR IV BACKGROUND SHEETING ON ALUMINUM SIGN BLANKS. SIGN TYPES FOR EACH SIGN, AS SPECIFIED IN SECTION 2910.02, ARE NOTED IN THE PLANS.
35. SIGNS AND SIGN POSTS REMOVED BY THE PERMITTEE OR ITS AGENT SHALL BE DELIVERED TO THE BUREAU OF MAINTENANCE, ALBINA YARD. CONTACT 503-823-4056 TO ARRANGE A DELIVERY TIME. REMOVE ALL SIGNS, CONCRETE AND DEBRIS FROM THE POST PRIOR TO DELIVERY.
36. ALL CURB AND PAVEMENT MARKING MATERIALS SHALL BE ON THE CITY'S CONSTRUCTION PRODUCTS LIST (CPL) OR THE STATE'S QUALIFIED PRODUCTS LIST (QPL). ALL MATERIALS SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURERS APPROVED APPLICATION PROCEDURE.
37. ALL LONGITUDINAL LINE WORK TO BE METHOD B (NON-PROFILE) EXTRUDED THERMOPLASTIC, 120 MILS THICK.
38. ALL TRANSVERSE LINE WORK, LEGENDS, SYMBOLS, AND ARROWS SHALL BE TYPE "B-HS" PREFORMED THERMOPLASTIC. BIKE LANE STENCILS, GREEN BICYCLE LANE MARKINGS, AND BIKE PATH RAILROAD MARKINGS SHALL BE 90 MILS THICK. ALL OTHER TRANSVERSE PAVEMENT MARKINGS SHALL BE 120-125 MILS THICK.
39. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY CURB OR PAVEMENT MARKINGS DAMAGED, WORN OUT OR REMOVED DUE TO CONTRACTOR'S OPERATION.
40. OUTSIDE METERED DISTRICTS: PARKING CONTROL SIGNING WILL BE INSTALLED BY THE CONTRACTOR. CONTACT PARKING CONTROL AT 503-823-7275 14 DAYS PRIOR TO INSTALLATION TO IDENTIFY EXACT SIGN LOCATIONS.

TREES

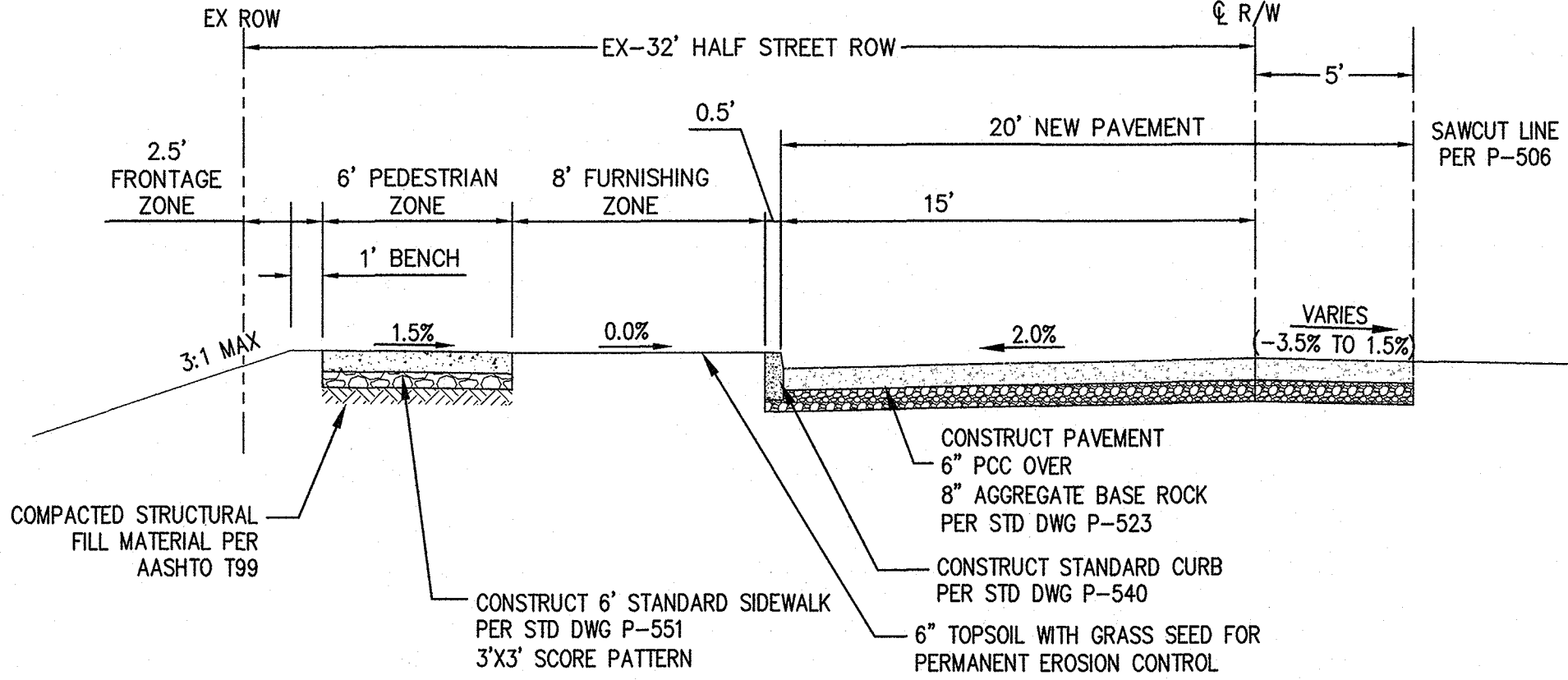
42. ALL TREE REMOVAL SHALL COMPLY WITH THE FEDERAL MIGRATORY BIRD TREATY ACT. SEE THE SPECIAL PROVISIONS FOR REQUIREMENTS PRIOR TO CUTTING OF ANY TREE.
43. ALL GROUND DISTURBANCES NEAR TREES REQUIRES ROOT INSPECTION!! CONTACT URBAN FORESTRY (URBAN FORESTRY AT 503-823-8733; FOR ROOT INSPECTIONS PRESS 3) PRIOR TO ALL EXCAVATIONS ADJACENT TO TREES. CONSULTATION WITH THE URBAN FORESTER IS REQUIRED BEFORE CUTTING OF ROOTS.
44. 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.

EROSION CONTROL

46. EROSION/SEDIMENTATION CONTROL (ESC) IS REQUIRED ON THIS PROJECT. IMPLEMENTATION OF THE ESC AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE PERMITTEE OR ITS AGENT UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED. THE PERMITTEE OR ITS AGENT SHALL PROVIDE INLET PROTECTION TO DOWNSTREAM INLETS FROM THE SITE PER THE EROSION CONTROL MANUAL [MARCH 2008]. CATCH BASIN AND STORM DRAIN INLET PROTECTION SHALL BE INSTALLED PER DETAIL DRAWINGS 4.3-B AND 4.3-G.

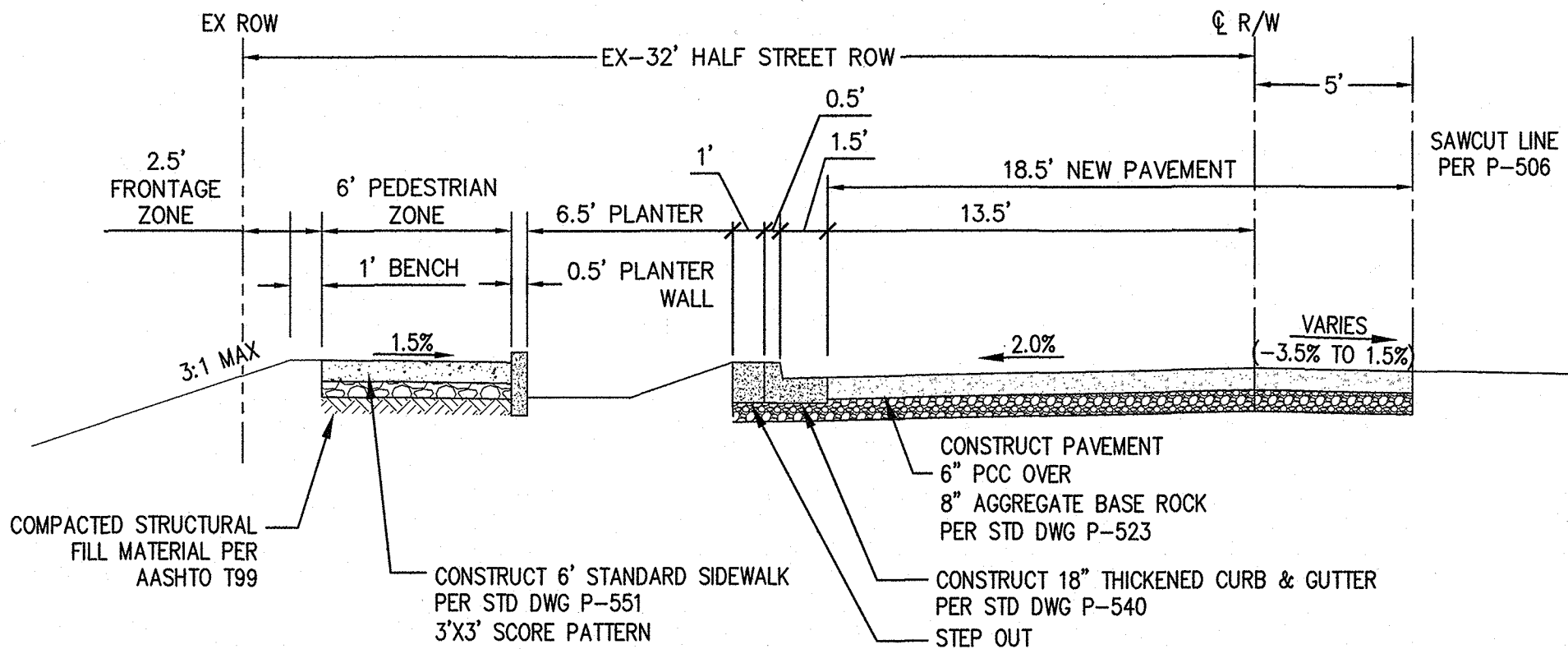
FOR JOINT PBOT/BES PERMITS ONLY

47. DISPOSE OF ALL SEWER TRENCH SPOIL MATERIAL AT A PROPER LANDFILL, OR SHALL OBTAIN A PERMIT FROM THE BUREAU OF DEVELOPMENT SERVICES BEFORE BEING DISPOSED OF ON-SITE. A COPY OF THE GRADING PERMIT AND PLAN SHALL BE PROVIDED TO THE BUREAU OF ENVIRONMENTAL SERVICES FOR CONSTRUCTION INSPECTION AT THE PRE-CONSTRUCTION MEETING. ALL WORK OUTSIDE THE PUBLIC RIGHT-OF-WAY, INCLUDING CUTS, FILLS, GRADING, AND CLEARING MAY REQUIRE PERMITS FROM THE BUREAU OF DEVELOPMENT SERVICES.
48. FOUNDATION STABILIZATION MAY BE NECESSARY AS PER CITY OF PORTLAND'S STANDARD CONSTRUCTION SPECIFICATIONS AND APPROVED BY BES.
49. MARK THE ENDS OF ALL STUB OUTS AND LATERALS WITH CONTINUOUS PRESSURE TREATED 2" X4" LUMBER. THE TOP 12' SHALL BE PAINTED WHITE AND STENCILED WITH BLACK "ST" FOR STORM OR PAINTED GREEN AND STENCILED BLACK "SS" FOR SANITARY, AND WITH PIPE SIZE, MATERIAL TYPE, AND PIPE DEPTH. BURY THE 2" X 4" LUMBER TO THE STUB OR LATERAL.
50. PROPERLY SHORE AND BRACE ALL SEWER TRENCH LINES AND EXCAVATIONS TO PREVENT CAVING AS REQUIRED BY OREGON OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OR-OSHA) AND SECTION 00510 - "STRUCTURE EXCAVATION AND BACKFILL" OF THE STANDARD CONSTRUCTION SPECIFICATIONS.
51. THE PERMITTEE OR ITS AGENT SHALL BE RESPONSIBLE FOR THE OPERATIONS AND MAINTENANCE OF THE STORMWATER FACILITIES AS PRESCRIBED IN THE APPROVED "OPERATIONS & MAINTENANCE" PLAN FOR 2 YEARS AFTER ITS ACCEPTANCE BY THE CITY.






N HUMBOLDT ST – TYPICAL SECTION W/O SWALE

FROM STA 1+19.50 TO 1+23.35, STA 1+30.35 TO 1+53.00,  
AND STA 1+60.00 TO 1+77.00  
SCALE: 1"=5'



N HUMBOLDT ST – TYPICAL SECTION W/ SWALE

FROM STA 1+23.35 TO 1+30.35, STA 1+53.00 TO 1+60.00,  
AND STA 1+77.00 TO 2+00  
SCALE: 1"=5'

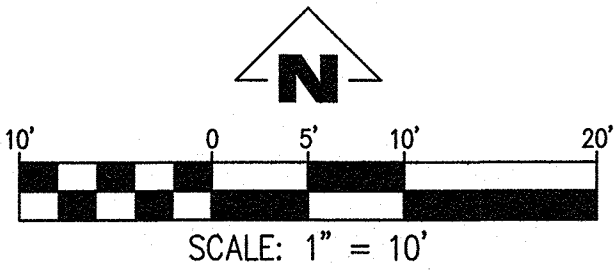
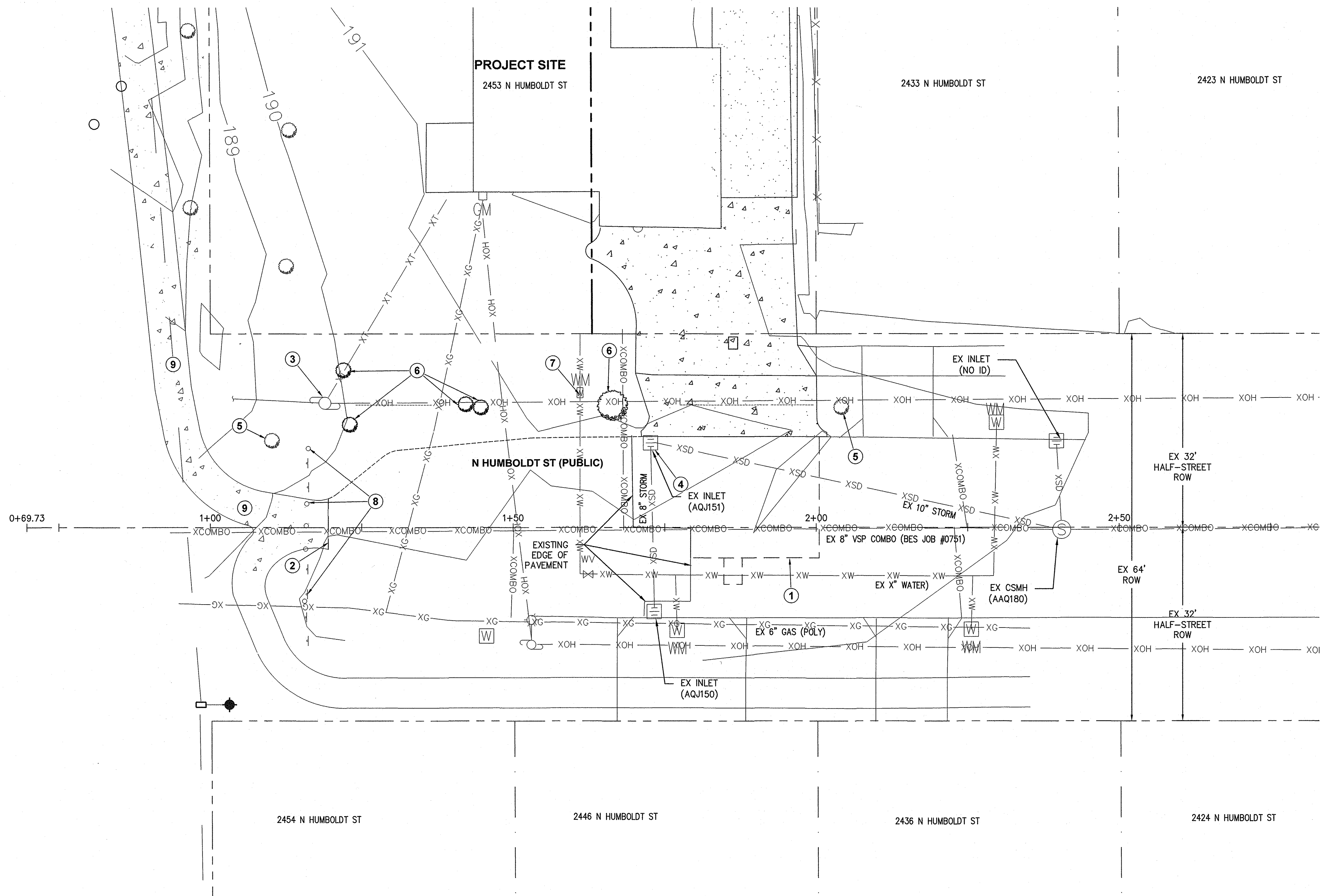
				DESIGNED BY SWH		DATE APPROVED			APPROVALS:		BUREAU OF ENVIRONMENTAL SERVICES		BUREAU OF TRANSPORTATION		 6445 SW FALLBROOK PL, STE 100 BEAVERTON, OREGON 97008 TEL: (503) 746-8812 www.emeriodesign.com	 REGISTERED PROFESSIONAL ENGINEER 82915PE OREGON MAY 12 2009 STEVEN WELLS HANSEN EXPIRES: 6/30/2019	PUBLIC IMPROVEMENTS N HUMBOLDT ST WEST OF N GAY AVE  <b>NOTES AND TYPICAL SECTIONS</b>	BES JOB NO. <b>EP492</b>
				CAD BY SWH		SECTION ENGR			Willa Ryan 5/13/19 BES CHIEF ENGINEER REG. PROF. ENGR. 16301PE		NICK FISH COMMISSIONER		CHLOE EUDALY COMMISSIONER					PBOT JOB NO. <b>TH0793</b>
				CHECKED BY SWH		BES REVIEWER RRK			PBOT PRINCIPAL ENGINEER REG. PROF. ENGR. 75155PE		WILLIAM F. RYAN, P.E. CHIEF ENGINEER		STEVE TOWNSEN, P.E. CITY ENGINEER					SHEET NO.
NO. DATE DESCRIPTION APPD.									PBOT CITY ENGINEER REG. PROF. ENGR. 51538PE									
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DEMOLITION NOTES

- 1 SAWCUT AND REMOVE EX CONCRETE AND DRIVEWAY ALONG N HUMBOLDT ST FROM STA 1+79.26, 5.0'RT TO STA 2+00.50, 5.0'RT
- 2 SAWCUT AND REMOVE EX AC ACCESS PATH EAST OF STA 1+17.05
- 3 EXISTING UTILITY POLE TO REMAIN AND BE PROTECTED
- 4 EXISTING INLET TO REMAIN AND BE PROTECTED
- 5 EXISTING STREET TREE TO REMAIN AND BE PROTECTED
- 6 EXISTING SHRUBS TO BE REMOVED
- 7 EXISTING 3/4" WATER METER REMAIN AND BE PROTECTED.
- 8 EXISTING BOLLARDS AND BARRICADES TO REMAIN AND BE PROTECTED
- 9 EXISTING CONCRETE SIDEWALK TO REMAIN AND BE PROTECTED



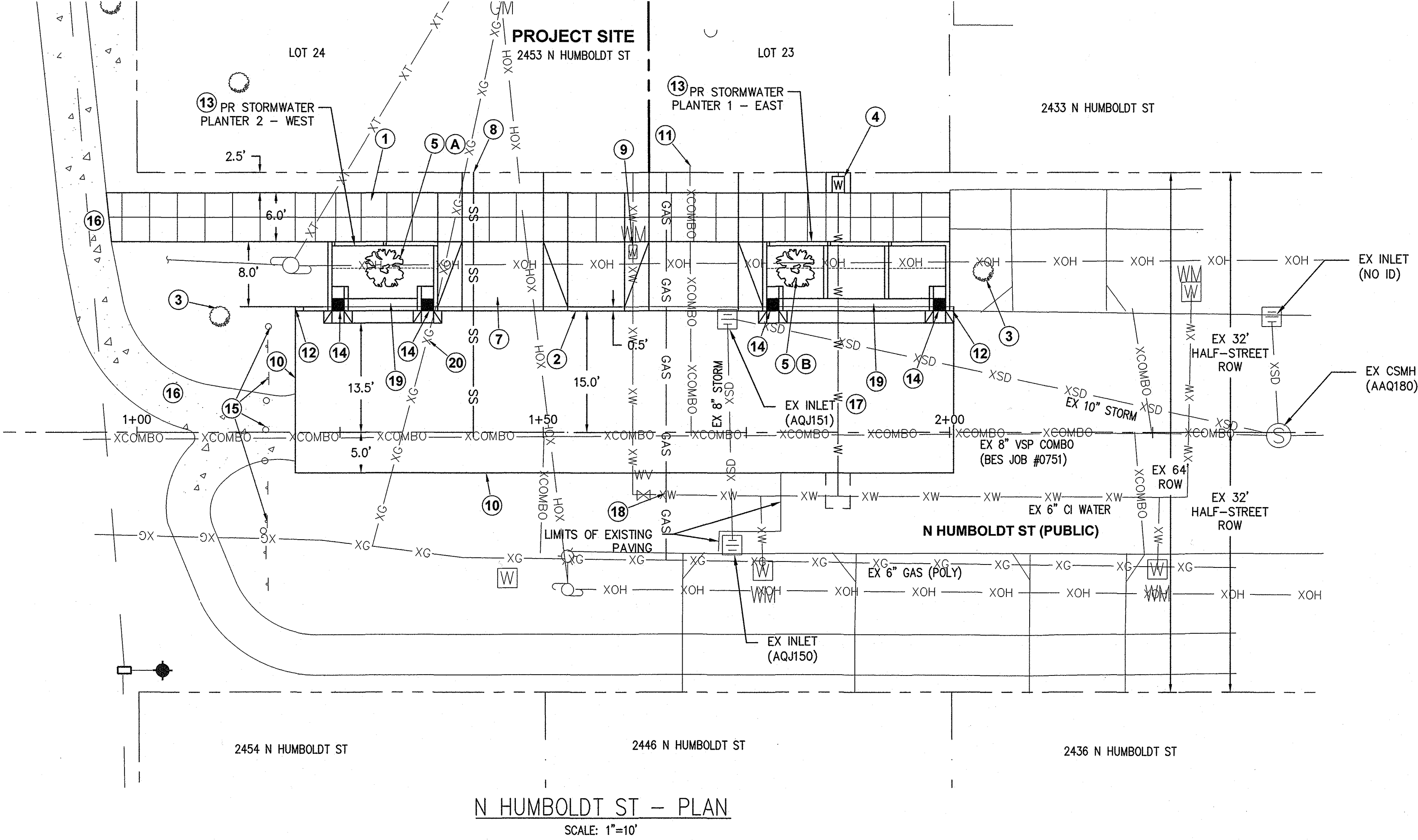
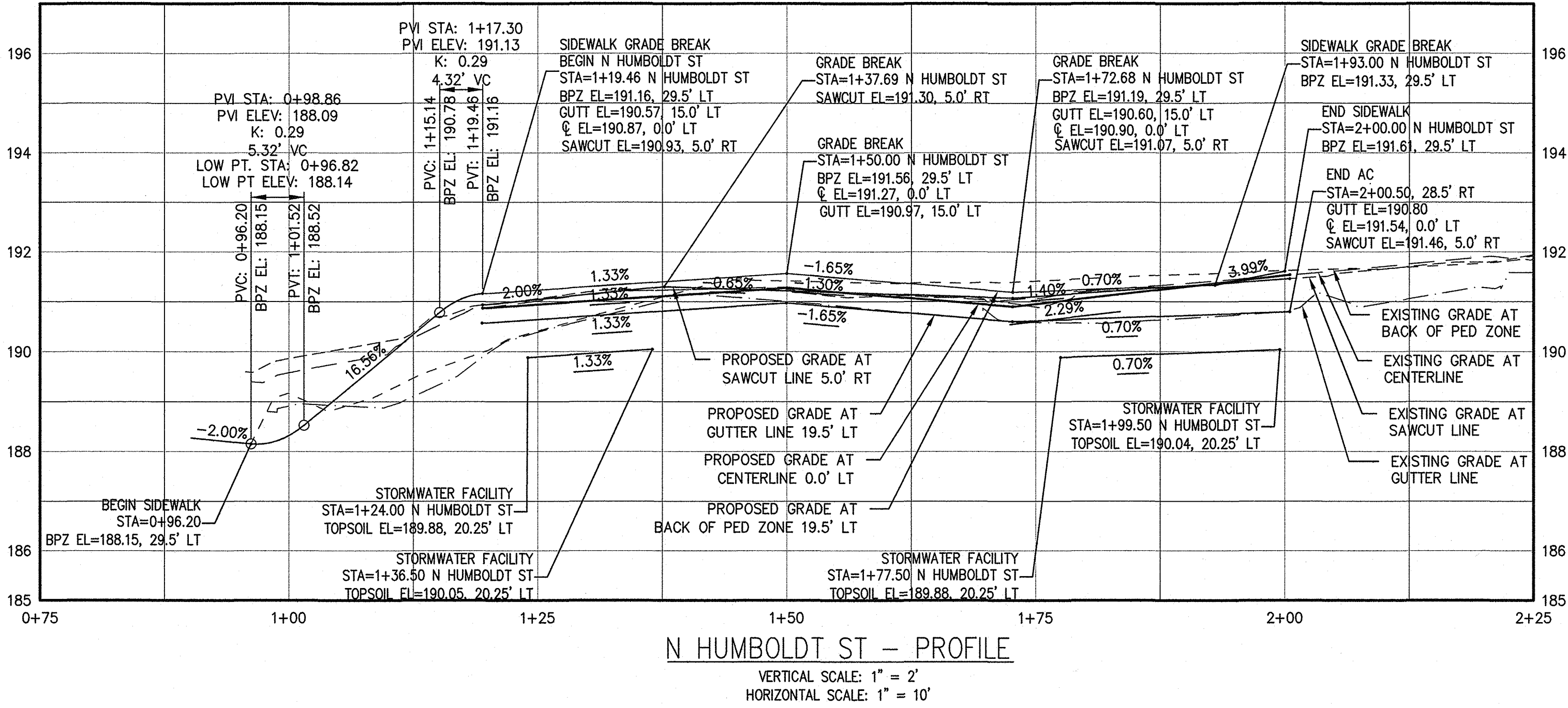
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CONSTRUCTION NOTES

- 1) CONSTRUCT 6' SIDEWALK PER STD DWG P-551 WITH 3'X3' SCORE PATTERN.
- 2) CONSTRUCT STANDARD CURB PER STD DWG P-540, 6" CURB EXPOSURE.
- 3) EXISTING STREET TREE TO REMAIN AND BE PROTECTED
- 4) INSTALL 1" METER BY PORTLAND WATER BUREAU UNDER SEPARATE PERMIT. CONTRACTOR TO CONNECT TO THE SHORT STUB-OUT ON THE BACK-SIDE OF THE NEW WATER METER BOX. CONTRACTOR TO EXTEND SIDEWALK PANEL ADJACENT TO WATER METER TO PROPERTY LINE FOR WATER METER PROTECTION.
- 5) INSTALL 2" CALIPER STREET TREE PER STD DWG P-581.
- 6) CONSTRUCT 11' CONCRETE DRIVEWAY AT STA. 1+68.50 PER STD DWG P-528. PROVIDE MINIMUM 3' PAVED DRIVEWAY CONNECTION BEHIND CONCRETE PER STD DWG P-536.
- 7) CONSTRUCT 10' CONCRETE DRIVEWAY AT STA. 1+45.00 PER STD DWG P-529. PROVIDE MINIMUM 3' PAVED DRIVEWAY CONNECTION BEHIND CONCRETE PER STD DWG P-536.
- 8) SANITARY LATERAL TO BE CONSTRUCTED AT STA. 3+70.65 UNDER SEPARATE BES CONNECTION PERMIT
- 9) PROTECT METER. CONTRACTOR TO RESET METER BOX TO GRADE AS NECESSARY. CONTACT PORTLAND WATER BUREAU IF A NEW METER BOX IS NECESSARY (503-823-1533)
- 10) CONSTRUCT PAVEMENT. 6" PCC OVER 8" AGGREGATE BASE ROCK PER STD DWG P-523 AND NON CURBED PAVEMENT EDGE PER STD DWG P-511
- 11) EX SANITARY LATERAL TO REMAIN AND SERVE LOT 23
- 12) CONSTRUCT CURB END PER STD DWG P-544
- 13) CONSTRUCT FLOW-THROUGH STORMWATER MANAGEMENT PLANTERS. SEE SHEET 6 FOR STORMWATER FACILITY GRADING, PLANTING PLAN AND TYPICAL SECTION.
- 14) CONSTRUCT CONCRETE INLET. SEE DETAIL ON SHEET 7
- 15) ALL EXISTING BOLLARDS AND BARRICADES AT END OF N HUMBOLDT ST TO REMAIN AND BE PROTECTED
- 16) EXISTING CONCRETE SIDEWALK TO REMAIN AND BE PROTECTED
- 17) EXISTING INLET TO REMAIN. ADJUST RIM TO MATCH PROPOSED GRADE PER STD DWG P-201
- 18) NEW GAS LINE CONNECTION BY NW NATURAL UNDER SEPARATE PERMIT. A UTILITY PROTECTION PLAN IS REQUIRED TO BE SUBMITTED TO PWB INSPECTION FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. (503-823-4518, ROY.MARTINEZ@PORTLANDOREGON.GOV AND WBUPP@PORTLANDOREGON.GOV).
- 19) CONSTRUCT 18" THICKENED CURB AND GUTTER AT STORMWATER PLANTER SECTION.
- 20) CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING NATURAL GAS LINE AND RELOCATE AS NECESSARY FOR CONSTRUCTION OF STORMWATER PLANTER

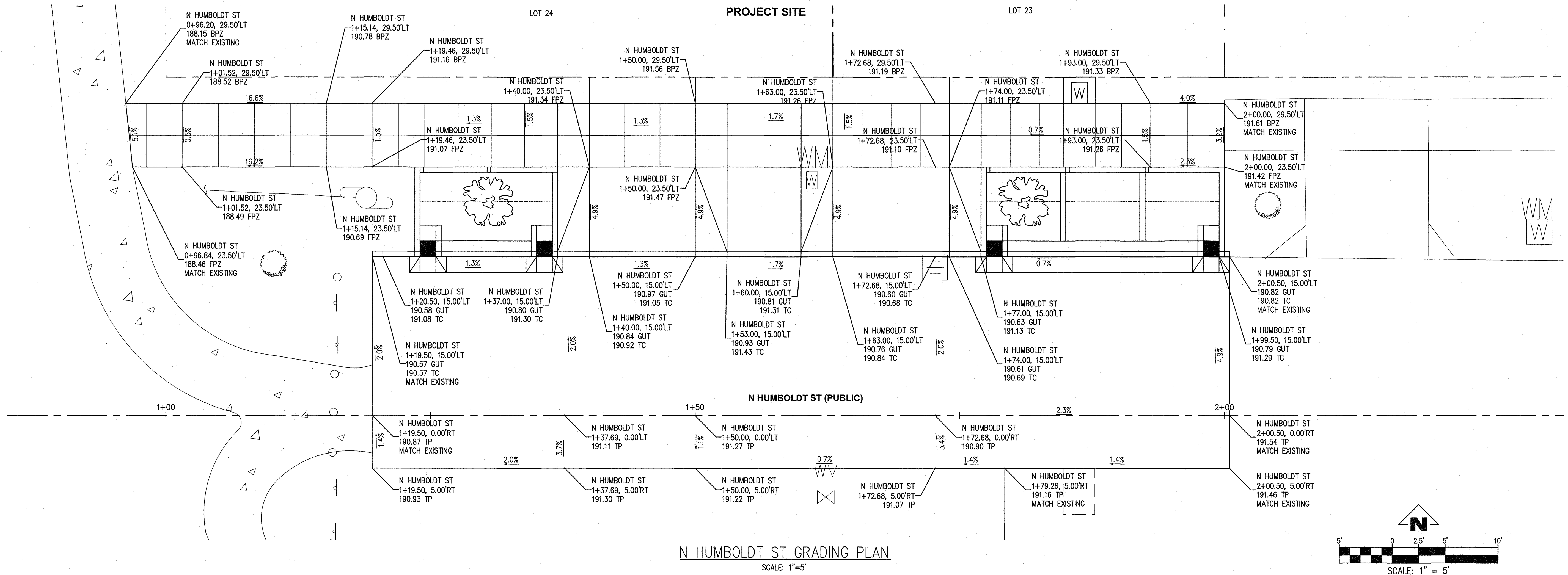
STREET TREE TABLE

- INSTALL PER P-581
- A) STA. 1+30.42, 20.25' LT  
INSTALL 2" CALIPER  
COMMON HACKBERRY  
(CELTIS OCCIDENTALIS)
- B) STA. 1+81, 20.25' LT  
INSTALL 2" CALIPER  
COMMON HACKBERRY  
(CELTIS OCCIDENTALIS)

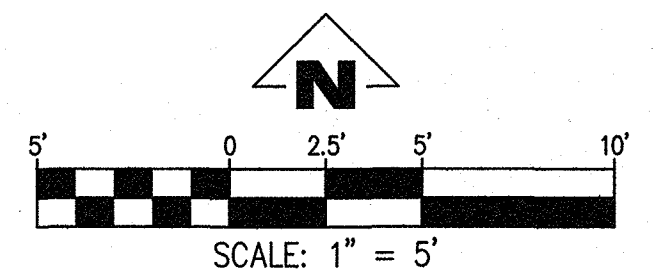




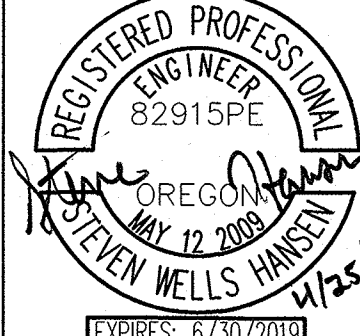
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PROJECT COMPLETED		CAD BY	SECTION ENGR	WILLIAM F. RYAN, P.E.		NICK FISH		CHLOE EUDALY		6445 SW FALLBROOK PL. STE 100 BEAVERTON, OREGON 97008 TEL: (503) 746-8812 www.emeriodesign.com		N HUMBOLDT ST WEST OF N GAY AVE		EP492	
MAP CORRECTED BY		CHECKED BY	BES REVIEWER	WILLIAM F. RYAN, P.E.		WILLIAM F. RYAN, P.E.		STEVE TOWNSEN, P.E.		REGISTERED PROFESSIONAL ENGINEER 82915PE OREGON MAY 12 2008 JOHN WELLS HANSEN EXPIRES: 6/30/2019		N HUMBOLDT ST PLAN AND PROFILE		TH0793	
CHECKED BY		PBOT REVIEWER		WILLIAM F. RYAN, P.E.		WILLIAM F. RYAN, P.E.		STEVE TOWNSEN, P.E.						SHEET NO.	
NO. DATE DESCRIPTION APPD.		FINAL MAP DATA		PBOT CITY ENGINEER		PBOT CITY ENGINEER		CITY ENGINEER						4 OF 9	





N HUMBOLDT ST GRADING PLAN  
SCALE: 1"=5'



CONSTRUCTED BY _____				DESIGNED BY SWH	DATE APPROVED		APPROVALS:		BUREAU OF ENVIRONMENTAL SERVICES		BUREAU OF TRANSPORTATION		 6445 SW FALLBROOK PL. STE 100 BEAVERTON, OREGON 97008 TEL: (503) 746-8812 www.emeriodesign.com	 REGISTERED PROFESSIONAL ENGINEER 82915PE OREGON JULY 12 2008 STEVEN WELLS HANSEN WJ25K EXPIRES: 6/30/2019	PUBLIC IMPROVEMENTS N HUMBOLDT ST WEST OF N GAY AVE		BES JOB NO. EP492
PROJECT COMPLETED _____				CAD BY SWH	SECTION ENGR		WILLIAM F. RYAN, P.E. 5/13/19 BES CHIEF ENGINEER REG. PROF. ENGR. 16301PE		NICK FISH COMMISSIONER		CHLOE EUDALY COMMISSIONER				PBOT JOB NO. TH0793		
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CHECKED BY _____					PBTOT REVIEWER AM		PBTOT CITY ENGINEER REG. PROF. ENGR. 51538PE								5 OF 9		
NO. DATE DESCRIPTION APPD.				REVISIONS				FINAL MAP DATA									



## STORMWATER FACILITY NOTES

1. STORMWATER FACILITY CONSTRUCTION TO BE INSPECTED BY BES CONSTRUCTION INSPECTOR.
2. CONTRACTOR SHALL CONTACT BES CONSTRUCTION 48-HOURS PRIOR TO STARTING CONSTRUCTION ON THE STORMWATER FACILITY. ANY WORK ON THE FACILITY WITHOUT INSPECTIONS WILL BE REJECTED.
3. CONTRACTOR SHALL PROVIDE BES CONSTRUCTION WITH TESTING DATA AS PER CITY OF PORTLAND STANDARD SPECIFICATIONS SECTION 01040.13-SOIL TESTING 14 DAYS PRIOR TO CONSTRUCTION.
4. SEE CITY OF PORTLAND STANDARD CONSTRUCTION SPECIFICATIONS SECTION 01040.14(d) STORMWATER FACILITY TOPSOIL.
5. INSTALL TOPSOIL IN A MANNER THAT ENSURES ADEQUATE INFILTRATION. PLACE IN TWO EQUAL LIFTS. LIFTS SHOULD NOT BE COMPACTED, BUT RATHER PLACED IN A MANNER TO REDUCE EXCESSIVE EROSION OR SETTLEMENT. LIFTS MAY BE LIGHTLY WATERED TO ENCOURAGE NATURAL COMPACTION OR, IF NECESSARY ROLLED WITH A WATER-FILLED LANDSCAPE ROLLER. SLIGHTLY OVERFILL THE FACILITY ABOVE PROPOSED FINISHED GRADE TO ACCOMMODATE NATURAL SETTLEMENT.
6. AFTER THE STORMWATER FACILITY CONSTRUCTION STARTS, THE BES INSPECTOR IS REQUIRED TO CHECK ON THE PROGRESS OF THE JOB AS NECESSARY UNTIL THE FACILITY HAS BEEN PLANTED. CONSTRUCTION DELAY WILL RESULT IN ADDITIONAL FEES.
7. FOLLOWING SWALE CONSTRUCTION, PLANTING SHALL OCCUR BETWEEN SEPTEMBER 1 AND NOVEMBER 1, OR BETWEEN FEBRUARY 1 AND APRIL 15. IF CONSTRUCTION IS COMPLETED DURING THESE TIME PERIODS, PLANTING SHALL OCCUR IMMEDIATELY. IF CONSTRUCTION IS COMPLETED OUTSIDE OF THESE PERIODS, TOPSOIL SHALL BE COVERED ENTIRELY WITH NORTH AMERICAN GREEN C125BN EROSION CONTROL FABRIC, SECURED WITH 12" WOODEN ECOSTAKE (18" ON-CENTER). PLANTS SHALL BE INSTALLED THROUGH HOLES CUT IN THE EROSION CONTROL FABRIC, AND FABRIC SHALL BE RESTAKED SECURELY FOR STABILITY AND SOIL COVERAGE FOLLOWING PLANTING.
8. CONTRACTOR TO PLACE EROSION CONTROL FABRIC OVER STORMWATER FACILITY TO PREVENT EROSION DURING WET WEATHER CONDITIONS. FABRIC SHALL BE 100% BIODEGRADABLE COIR FABRIC (NORTH AMERICAN C125BN OR APPROVED EQUAL).
9. PLANTS SHALL BE INSPECTED AND APPROVED BY BES VEGETATION PROGRAM PRIOR TO PLANTING. CONTACT THE BES PUBLIC WORKS INSPECTOR.

WEST PLANTER SPOT GRADE TABLE

NUMBER	STREET STATION	ELEVATION & DESCRIPTION	ELEVATION & DESCRIPTION	ELEVATION & DESCRIPTION
①	1+24.00, 15.00'LT N HUMBOLDT ST	190.63 G	191.13 TC	
②	1+24.75, 15.00'LT N HUMBOLDT ST	190.64 G	190.47 DG	
③	1+35.75, 15.00'LT N HUMBOLDT ST	190.79 G	190.62 DG	
④	1+36.50, 15.00'LT N HUMBOLDT ST	190.80 G	191.30 TC	
⑤	1+24.00, 20.25'LT N HUMBOLDT ST	189.88 FG	191.46 TW	
⑥	1+36.50, 20.25'LT N HUMBOLDT ST	190.05 FG	191.63 TW	
⑦	1+24.00, 23.50'LT N HUMBOLDT ST	189.88 FG	191.46 TW	191.13 SW
⑧	1+24.17, 23.50'LT N HUMBOLDT ST	191.05 DN	191.13 SW	
⑨	1+30.50, 23.50'LT N HUMBOLDT ST	191.14 DN	191.22 SW	
⑩	1+36.50, 23.50'LT N HUMBOLDT ST	190.05 FG	191.63 TW	191.30 SW

EAST PLANTER SPOT GRADE TABLE

NUMBER	STREET STATION	ELEVATION & DESCRIPTION	ELEVATION & DESCRIPTION	ELEVATION & DESCRIPTION	ELEVATION & DESCRIPTION
⑪	1+77.50, 15.00'LT N HUMBOLDT ST	190.63 G	191.13 TC		
⑫	1+78.25, 15.00'LT N HUMBOLDT ST	190.64 G	190.47 DG		
⑬	1+84.75, 15.00'LT N HUMBOLDT ST	190.68 G	191.18 TC		
⑭	1+92.25, 15.00'LT N HUMBOLDT ST	190.74 G	191.24 TC		
⑮	1+98.75, 15.00'LT N HUMBOLDT ST	190.78 G	190.61 DG		
⑯	1+99.50, 15.00'LT N HUMBOLDT ST	190.79 G	191.29 TC		
⑰	1+77.50, 20.25'LT N HUMBOLDT ST	189.88 FG	191.46 TW		
⑱	1+84.75, 20.25'LT N HUMBOLDT ST	189.93 FG	190.68 TD		
⑲	1+92.25, 20.25'LT N HUMBOLDT ST	189.99 FG	190.74 TD		
⑳	1+99.50, 20.25'LT N HUMBOLDT ST	190.04 FG	191.62 TW		
㉑	1+77.50, 23.50'LT N HUMBOLDT ST	189.88 FG	191.46 TW	191.13 SW	
㉒	1+77.67, 23.50'LT N HUMBOLDT ST	191.05 DN	191.13 SW		
㉓	1+84.75, 23.50'LT N HUMBOLDT ST	189.93 FG	190.68 TD	191.51 TW	191.18 SW
㉔	1+85.17, 23.50'LT N HUMBOLDT ST	191.11 DN	191.19 SW		
㉕	1+92.25, 23.50'LT N HUMBOLDT ST	189.99 FG	190.74 TD	191.57 TW	191.24 SW
㉖	1+92.67, 23.50'LT N HUMBOLDT ST	191.16 DN	191.24 SW		
㉗	1+99.50, 23.50'LT N HUMBOLDT ST	190.04 FG	191.62 TW	191.41 SW	

STORMWATER FACILITY GRADING PLAN

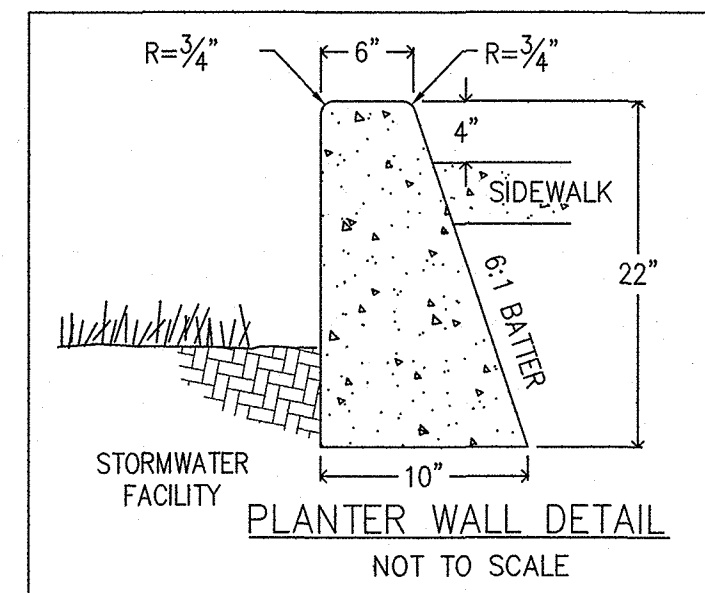
SCALE: 1"=5'

STORMWATER FACILITY PLANTING &amp; DIMENSION PLAN

SCALE: 1"=5'

N HUMBOLDT ST (PUBLIC)

N HUMBOLDT ST (PUBLIC)



## ABBREVIATIONS

G = GUTTER OR PROJECTED GUTTER ELEVATION  
DG = DEPRESSED GUTTER ELEVATION  
DN = DRAINAGE NOTCH ELEVATION  
FG = FINISHED GRADE ELEVATION PLANTER  
SW = FINISHED GRADE SIDEWALK ELEVATION  
TD = TOP OF CHECKDAM ELEVATION  
TW = TOP OF WALL ELEVATION  
TC = TOP OF CURB OR PROJECTED CURB ELEVATION

## STREET TREE TABLE




INSTALL PER DETAIL SW-361 ON SHEET 7 AND STD DWG P-581 ON SHEET 9

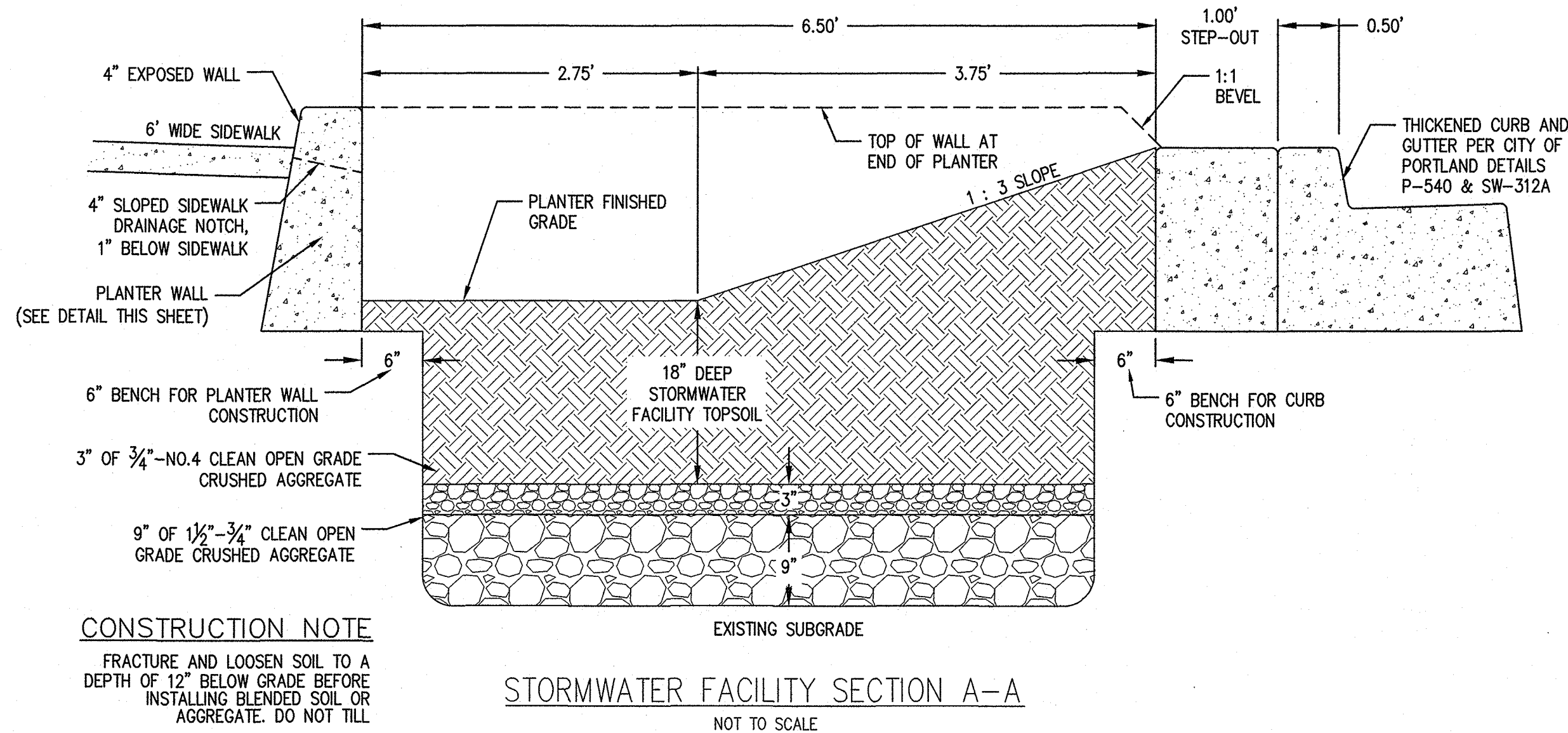
**C** STA. 1+30.42, 20.25' LT  
INSTALL 2" CALIPER  
COMMON HACKBERRY  
(CELTIS OCCIDENTALIS)

**D** STA. 1+81, 20.25' LT  
INSTALL 2" CALIPER  
COMMON HACKBERRY  
(CELTIS OCCIDENTALIS)

## SWALE PLANTING MATRIX

ZONE A AREA: 93 SF @ 115 HERBACEOUS PLANTS PER 100 SF = 107 PLANTS REQUIRED  
ZONE B AREA: 126 SF @ 12 SMALL SHRUBS & 70 GROUND COVER PER 100 SF =  
15 SMALL SHRUBS & 88 GROUND COVER REQUIRED

SYMBOL	COMMON NAME	SCIENTIFIC NAME	PLANT TYPE	ZONE	SIZE	POTENTIAL HEIGHT	SPACING ON CENTER	PLANTS				TOTAL PLANTS
								A1	A2	A3	A4	
	SLOUGH SEDGE	"CAREX OBNUPA"	HERBACEOUS	A	1 GAL.	48"	12"	72		40		112
	SPREADING RUSH	"JUNCUS PATENS"	HERBACEOUS	A	1 GAL.	36"	12"		40		41	81
TOTAL ZONE A HERBACEOUS PLANTS (192 REQUIRED)												193
								PLANTS				
	COASTAL STRAWBERRY	"FRAGARIA CHILOENSIS"	GROUND COVER	B	1 GAL.	6"	12"	13		7		20
	DULL OREGON GRAPE	"MAHONIA NERVOSA"	SMALL SHRUB	B	1 GAL.	24"	24"	2		2		4
	KINNICKINNICK	"ARCTOSTAPHYLOS UVA-URS"	GROUND COVER	B	1 GAL.	6"	12"		7		8	15
	SALAL	"GAULTHERIA SHALLON"	SMALL SHRUB	B	1 GAL.	24"	24"		1		2	3
TOTAL ZONE B GROUND COVER PLANTS (35 REQUIRED)												35
TOTAL ZONE B SMALL SHRUBS (6 REQUIRED)												7

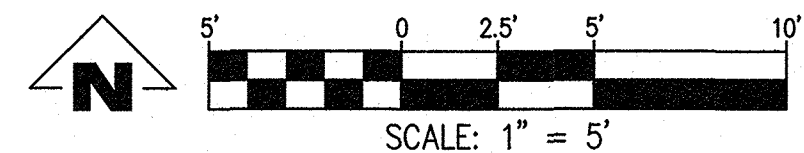


## CONSTRUCTION NOTE

FRACTURE AND LOOSEN SOIL TO A DEPTH OF 12" BELOW GRADE BEFORE INSTALLING BLENDED SOIL OR AGGREGATE. DO NOT TILL

STORMWATER FACILITY SECTION A-A

NOT TO SCALE



NO.	DATE	DESCRIPTION	APPD.
REVISIONS			
FINAL MAP DATA			

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PROJECT COMPLETED	CAD BY	SECTION ENGR
MAP CORRECTED BY	CHECKED BY	BES REVIEWER
CHECKED BY		PBOT REVIEWER



## APPROVALS:

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STEVE TOWNSEN, P.E. 5/14/19  
PBOT PRINCIPAL ENGINEER REG. PROF. ENGR. 75155PE  
STEVE TOWNSEN, P.E. 5/14/19  
PBOT CITY ENGINEER REG. PROF. ENGR. 51538PE

## BUREAU OF ENVIRONMENTAL SERVICES

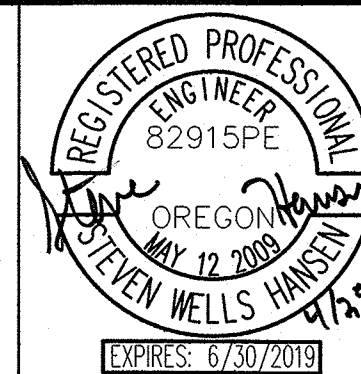
NICK FISH COMMISSIONER  
WILLIAM F. RYAN, P.E. CHIEF ENGINEER

## BUREAU OF TRANSPORTATION

CHLOE EUDALY COMMISSIONER  
STEVE TOWNSEN, P.E. CITY ENGINEER

EMERIO  
Design

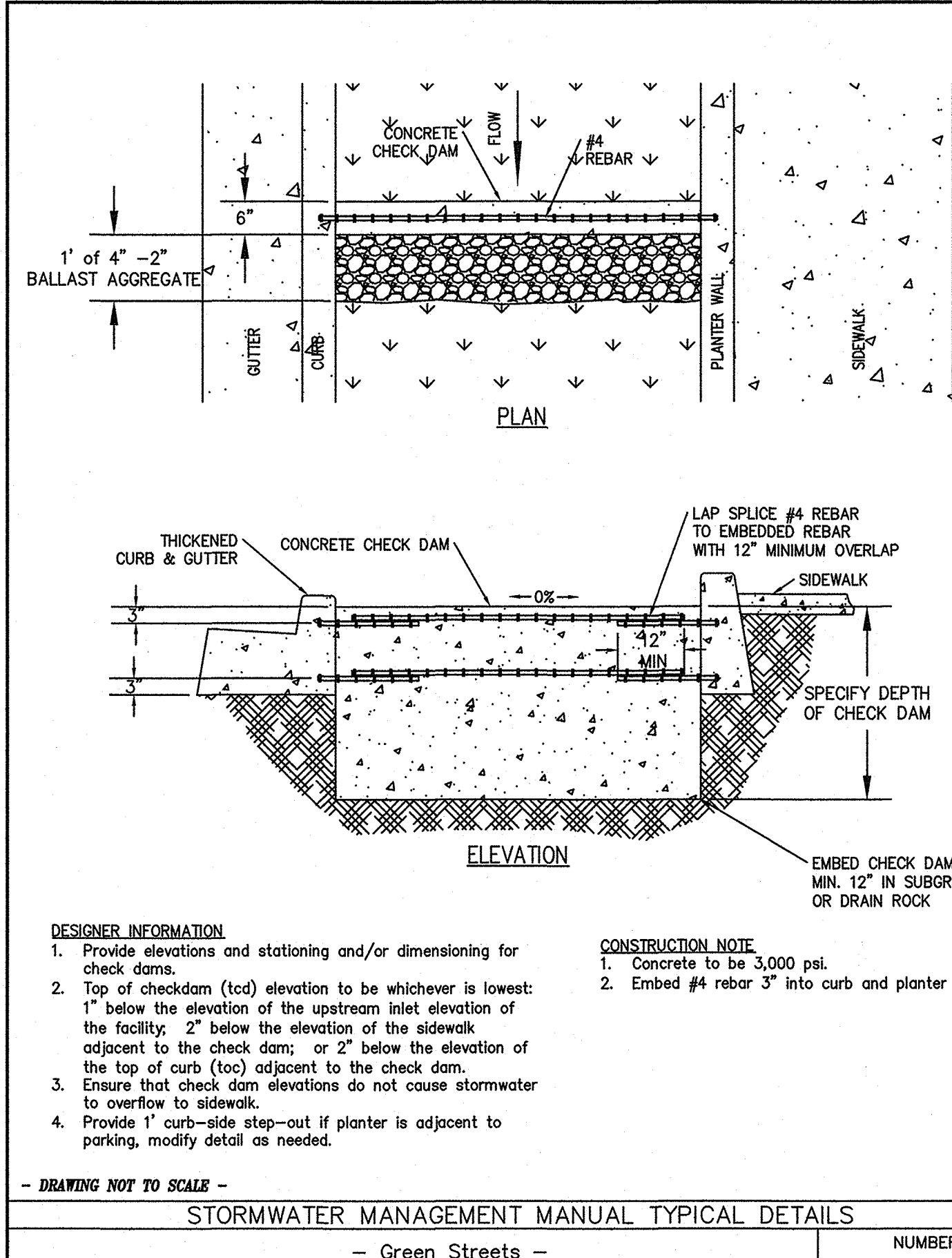
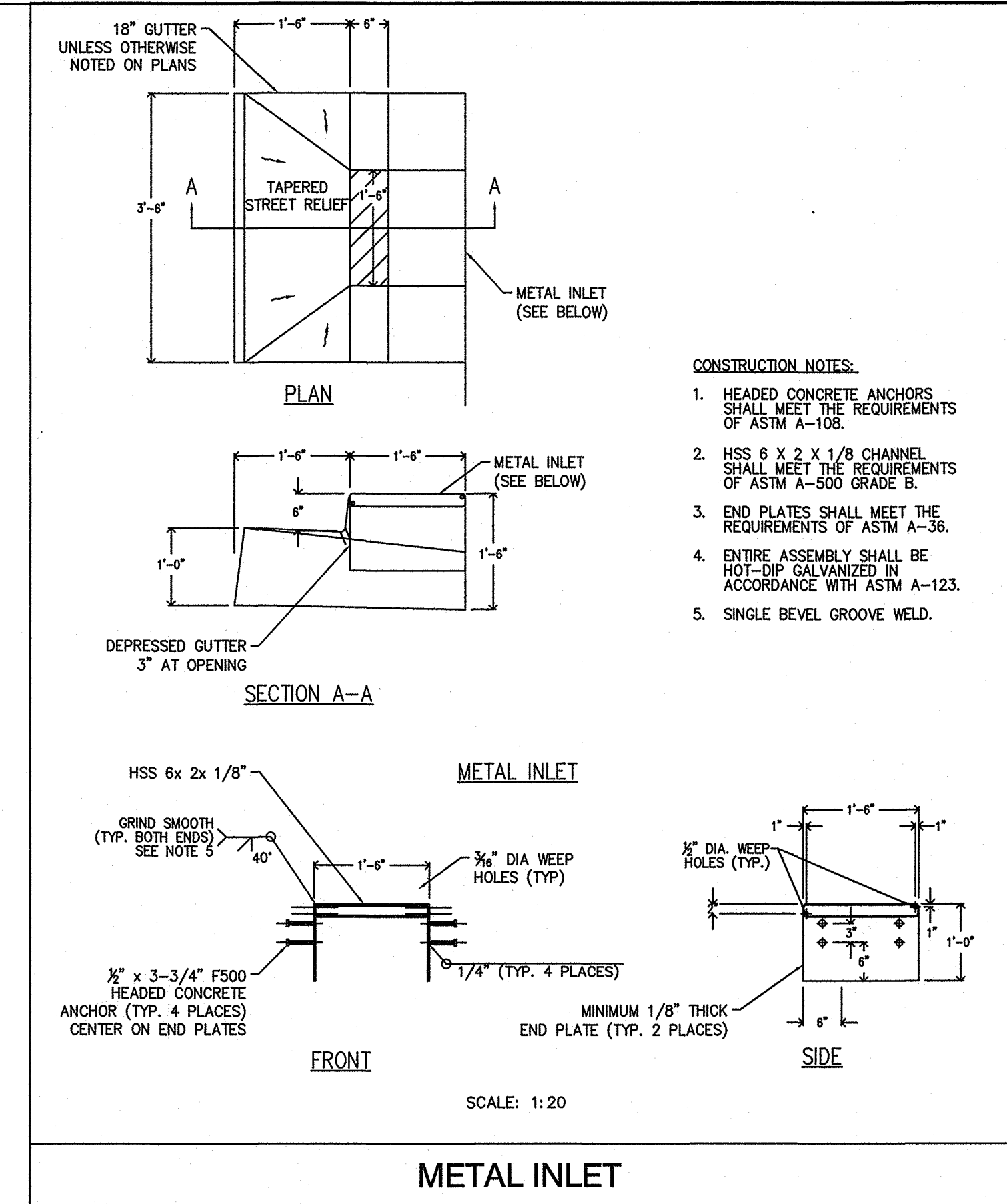
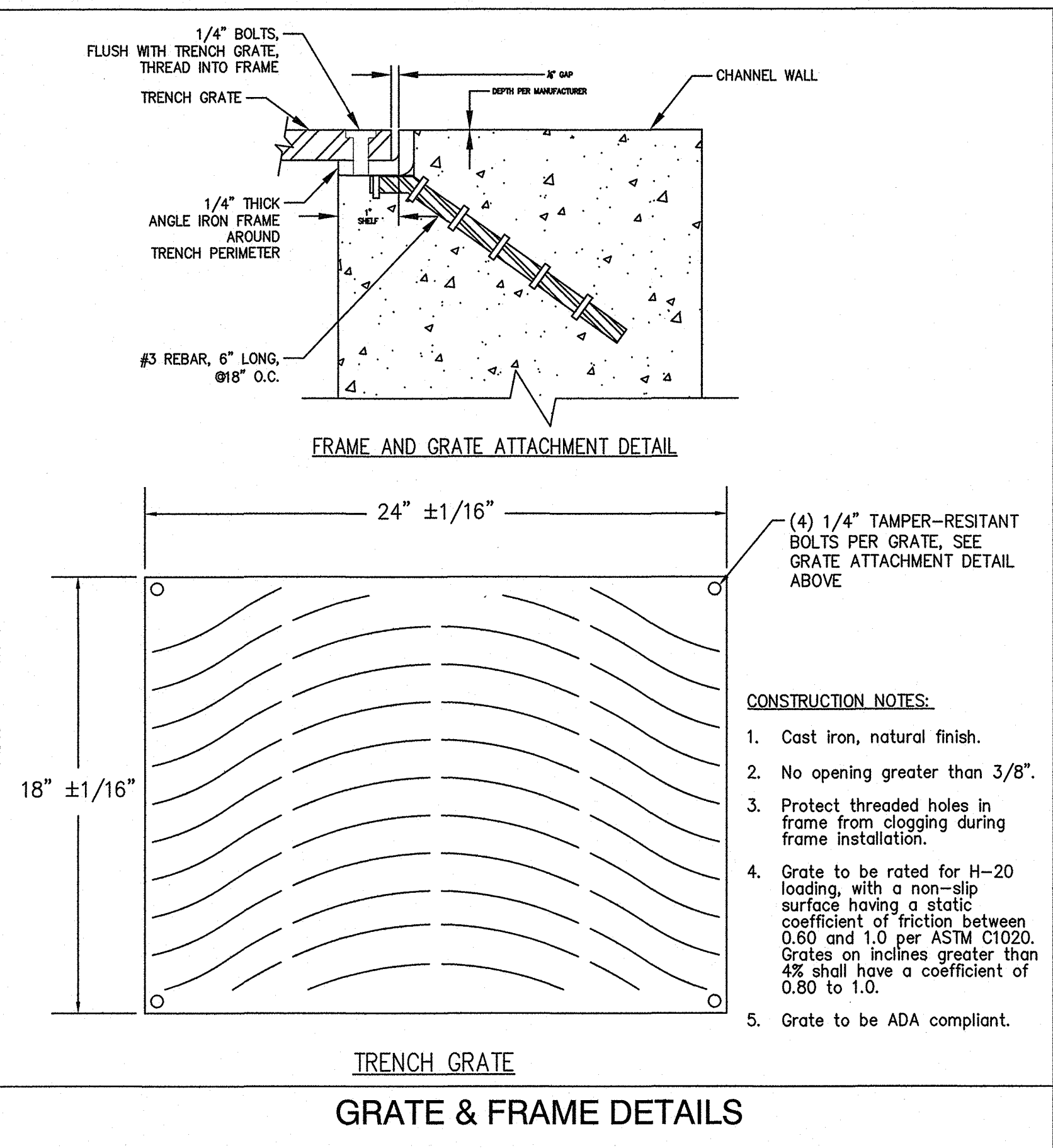
6445 SW FALLBROOK PL, STE 100  
BEAVERTON, OREGON 97008  
TEL: (503) 746-8812  
www.emeriodesign.com

PUBLIC IMPROVEMENTS  
N HUMBOLDT ST WEST OF N GAY AVESTORMWATER FACILITY  
PLAN

BES JOB NO.  
EP492  
PBOT JOB NO.  
TH0793  
SHEET NO.

6 OF 9





STORMWATER MANAGEMENT MANUAL TYPICAL DETAILS

Green Streets

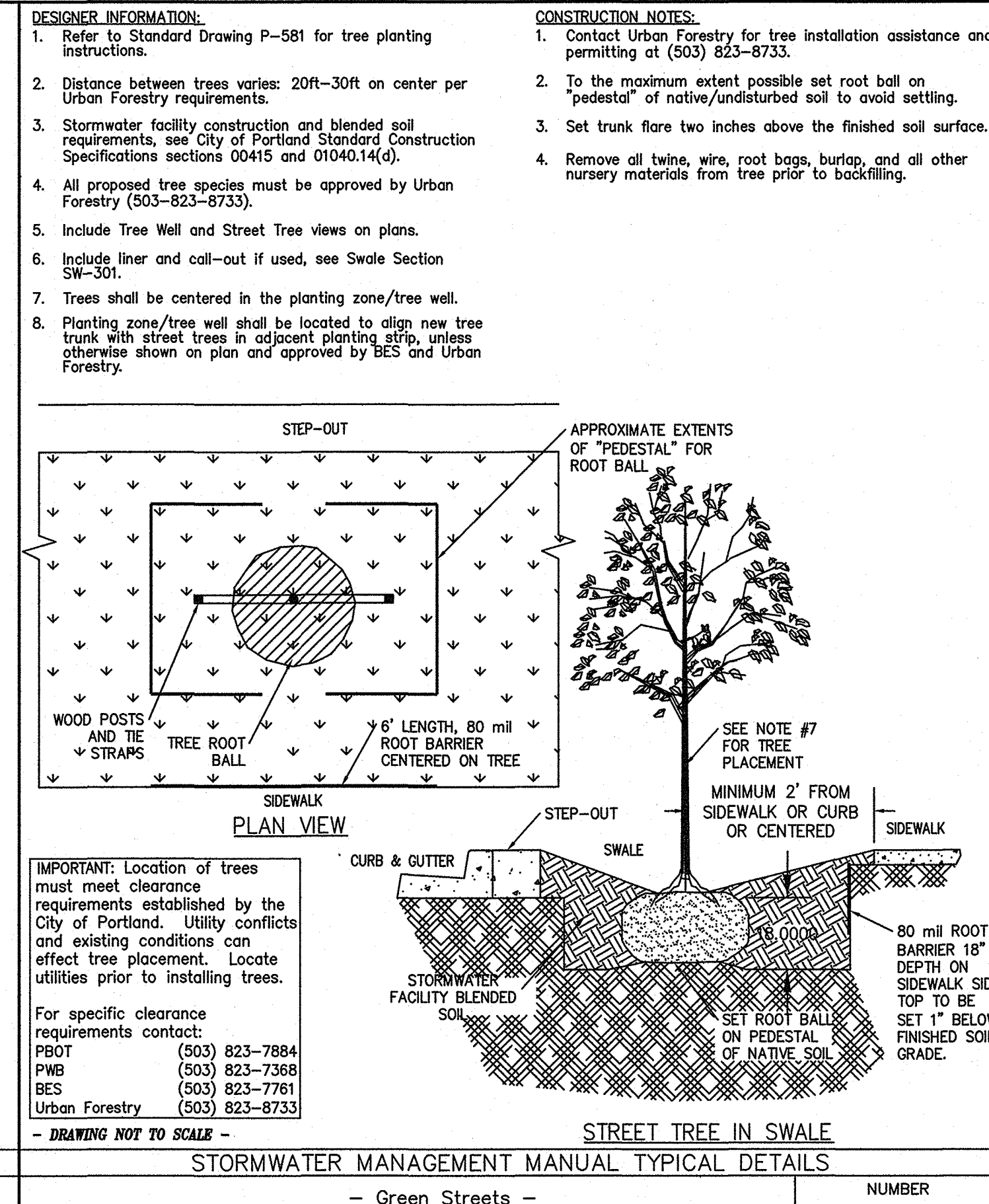
Concrete Check Dam for Planters

Check Dams

NUMBER SW-343

7-1-2016

Bureau of Environmental Services



STORMWATER MANAGEMENT MANUAL TYPICAL DETAILS

Green Streets

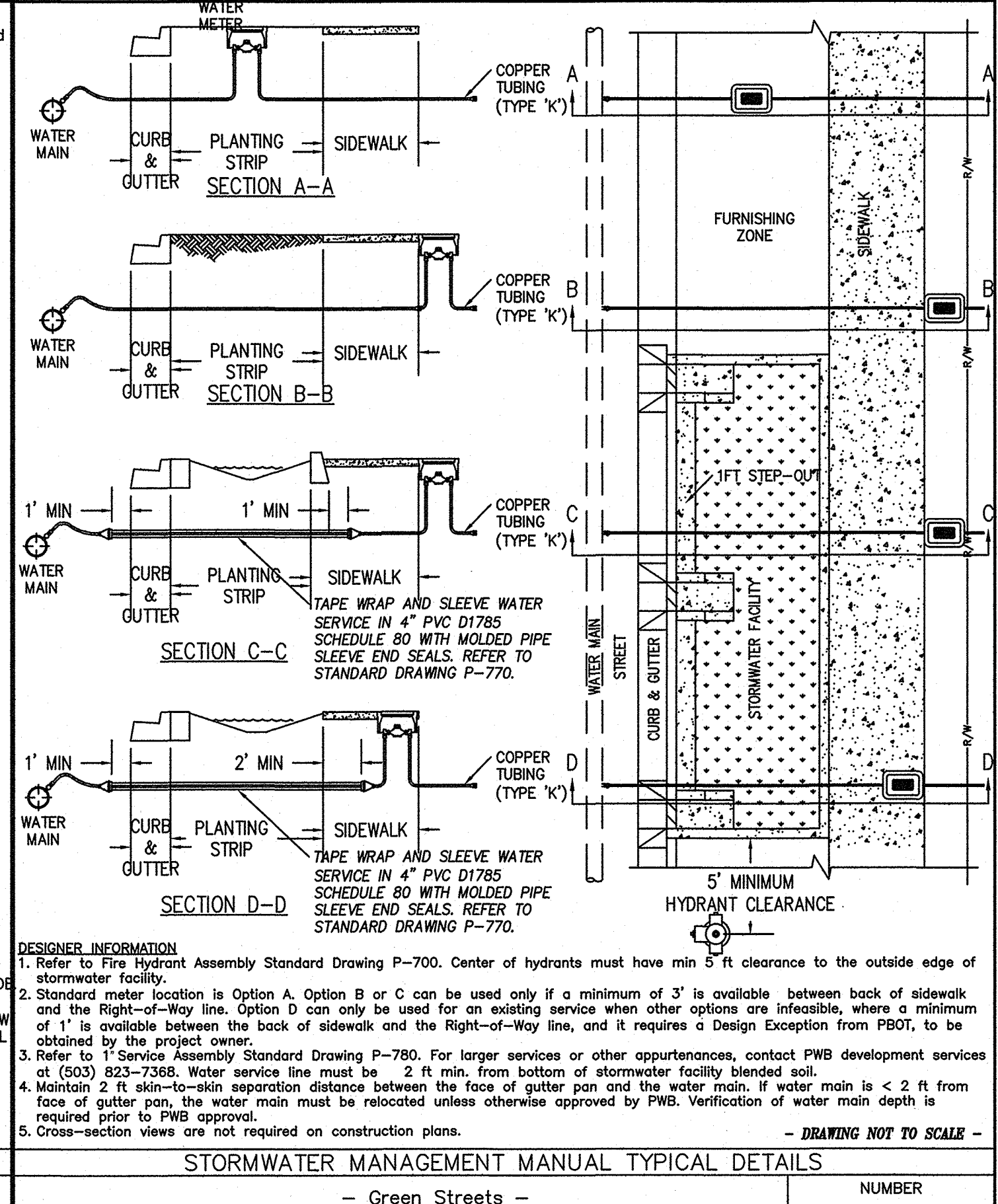
Tree Well Detail

Without Rock Storage

NUMBER SW-361

7-1-2016

Bureau of Environmental Services



STORMWATER MANAGEMENT MANUAL TYPICAL DETAILS

Green Streets

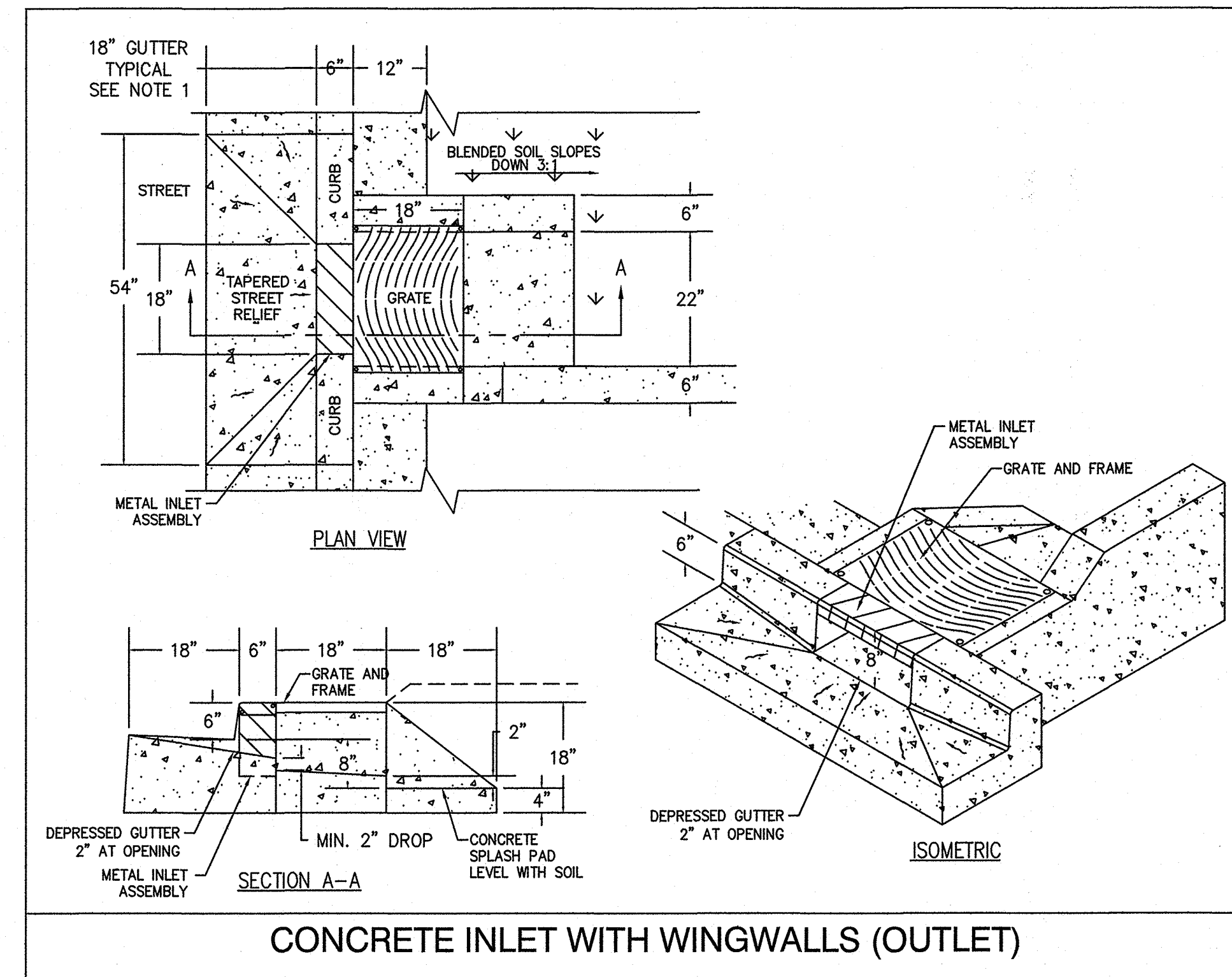
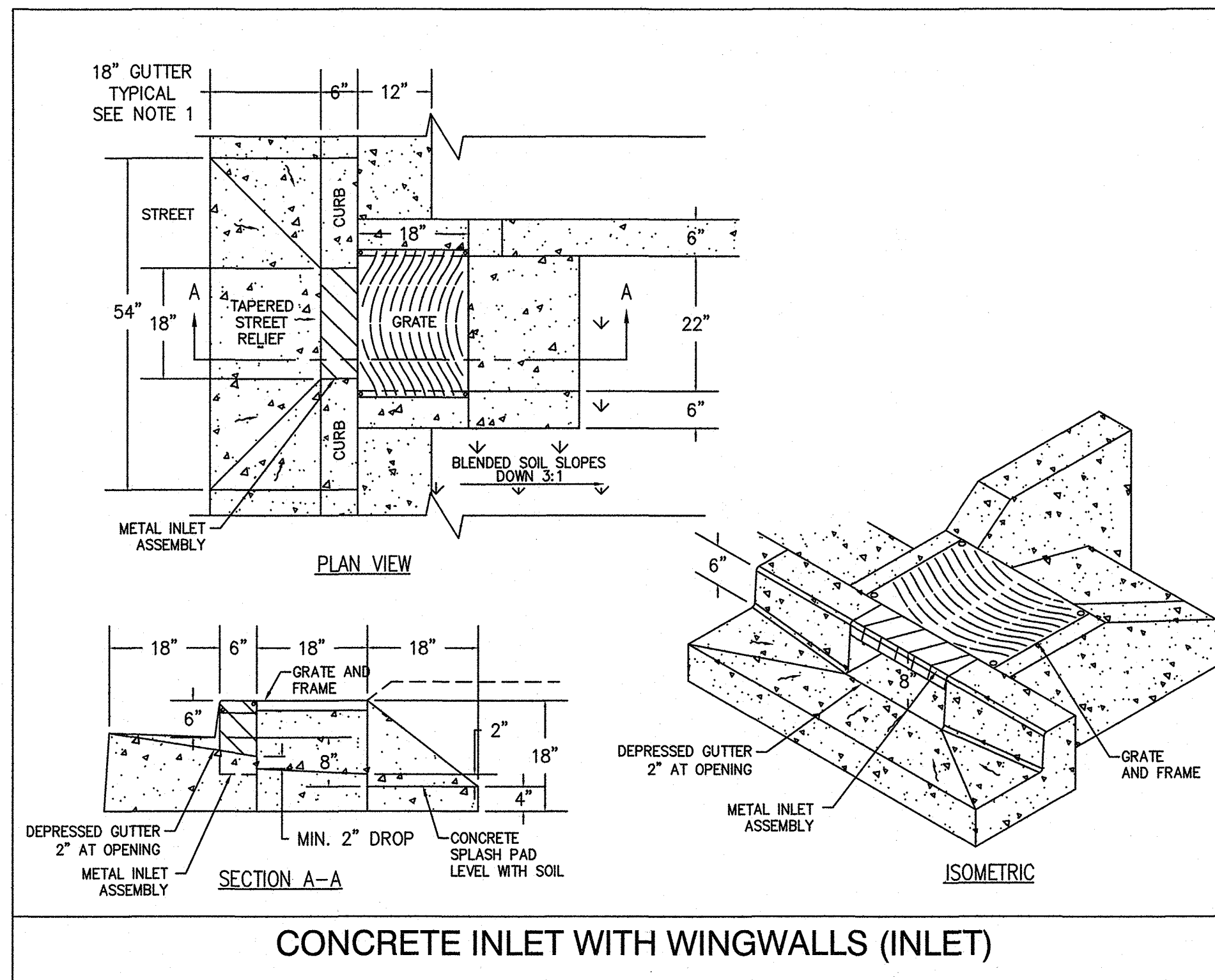
Meter & Hydrant Locations

Planter with 1' Step-out

NUMBER SW-316B

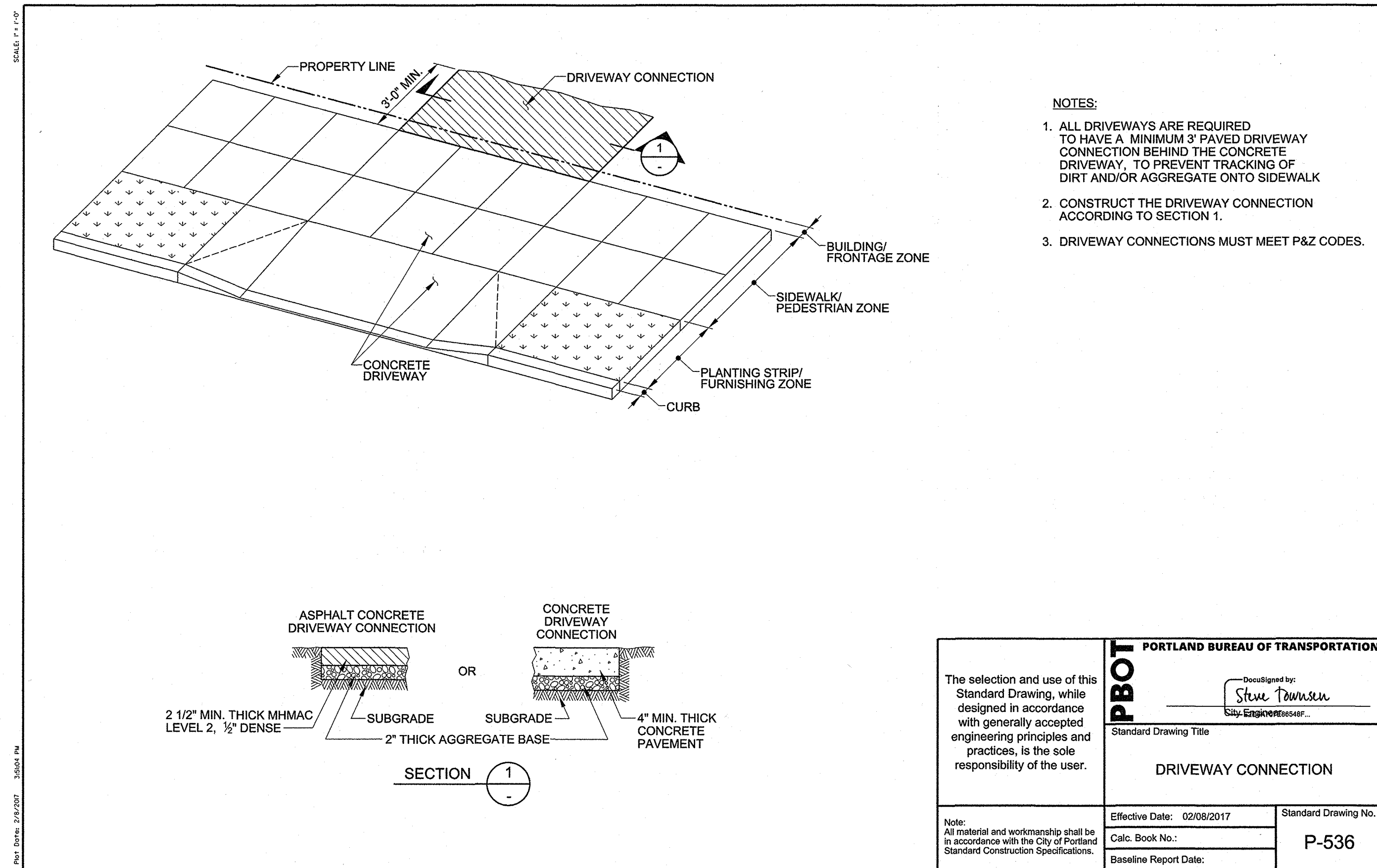
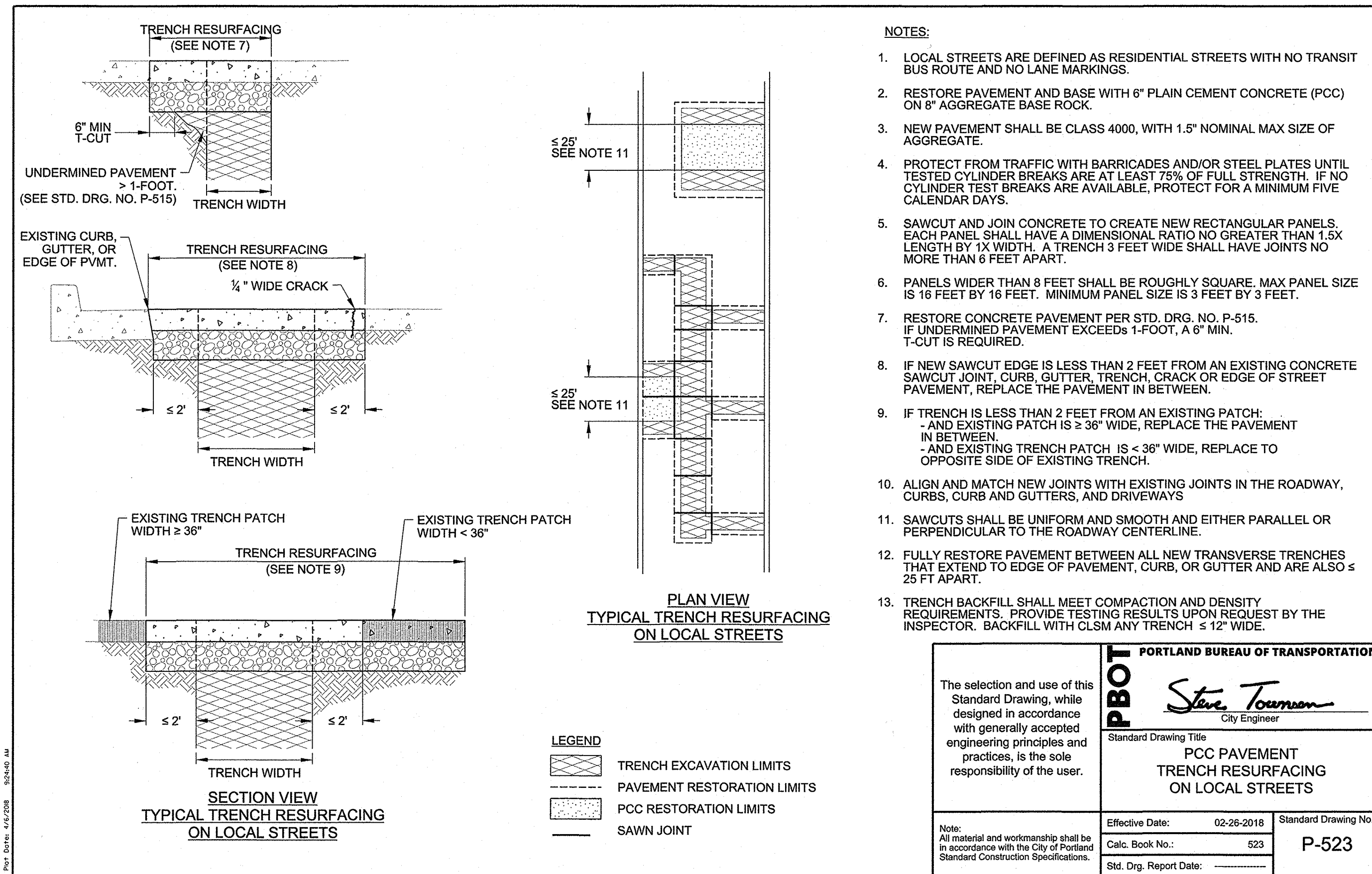
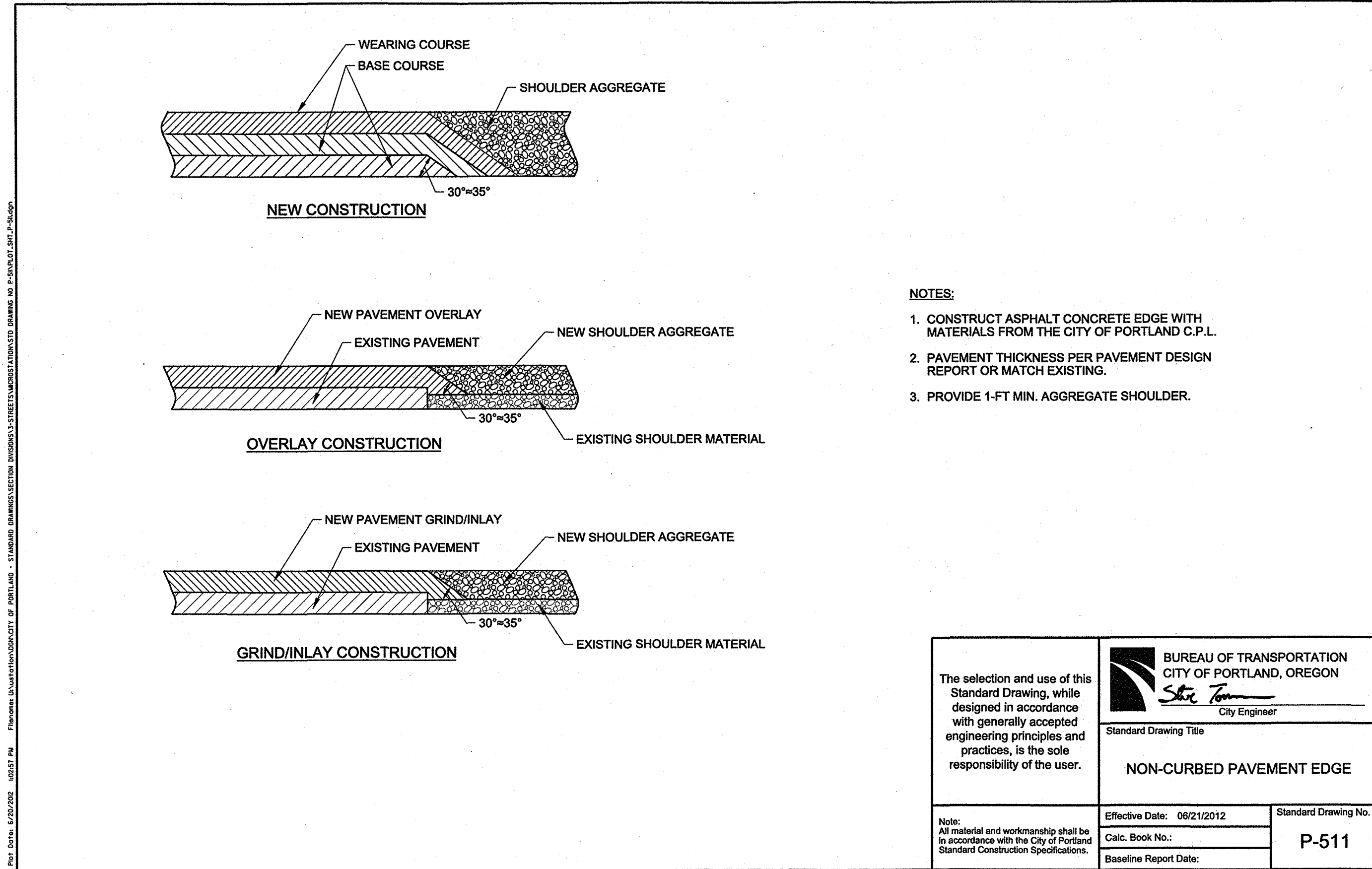
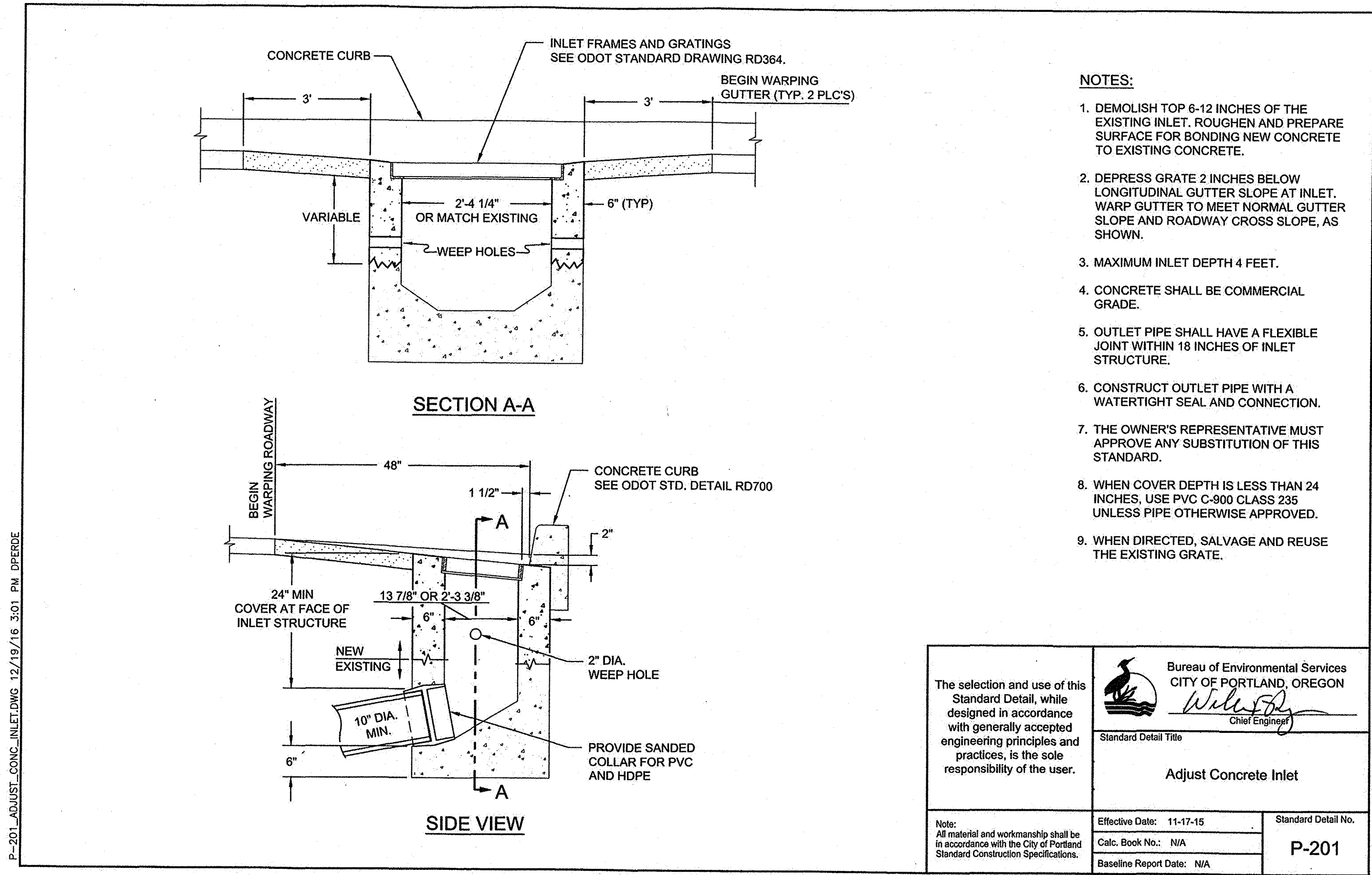
7-1-2016

Bureau of Environmental Services



<b>REVISIONS</b> NO. DATE DESCRIPTION APPD.				<b>FINAL MAP DATA</b> DESIGNED BY SWH PROJECT COMPLETED MAP CORRECTED BY SWH CHECKED BY SWH				<b>APPROVALS:</b> BES CHIEF ENGINEER PBOT PRINCIPAL ENGINEER PBOT CITY ENGINEER				<b>BUREAU OF ENVIRONMENTAL SERVICES</b> NICK FISH WILLIAM F. RYAN, P.E. COMMISSIONER CHIEF ENGINEER				<b>BUREAU OF TRANSPORTATION</b> CHLOE EUDALY STEVE TOWNSEN, P.E. COMMISSIONER CITY ENGINEER				<b>EMERIO Design</b> 6445 SW FALLBROOK PL. STE 100 BEAVERTON, OREGON 97008 TEL: (503) 746-8812 www.emeriodesign.com				<b>PUBLIC IMPROVEMENTS</b> N HUMBOLDT ST WEST OF N GAY AVE <b>INLET AND PLANTER DETAILS</b>				<b>BES JOB NO.</b> EP492 <b>PBOT JOB NO.</b> TH0793 <b>SHEET NO.</b> 7 OF 9			
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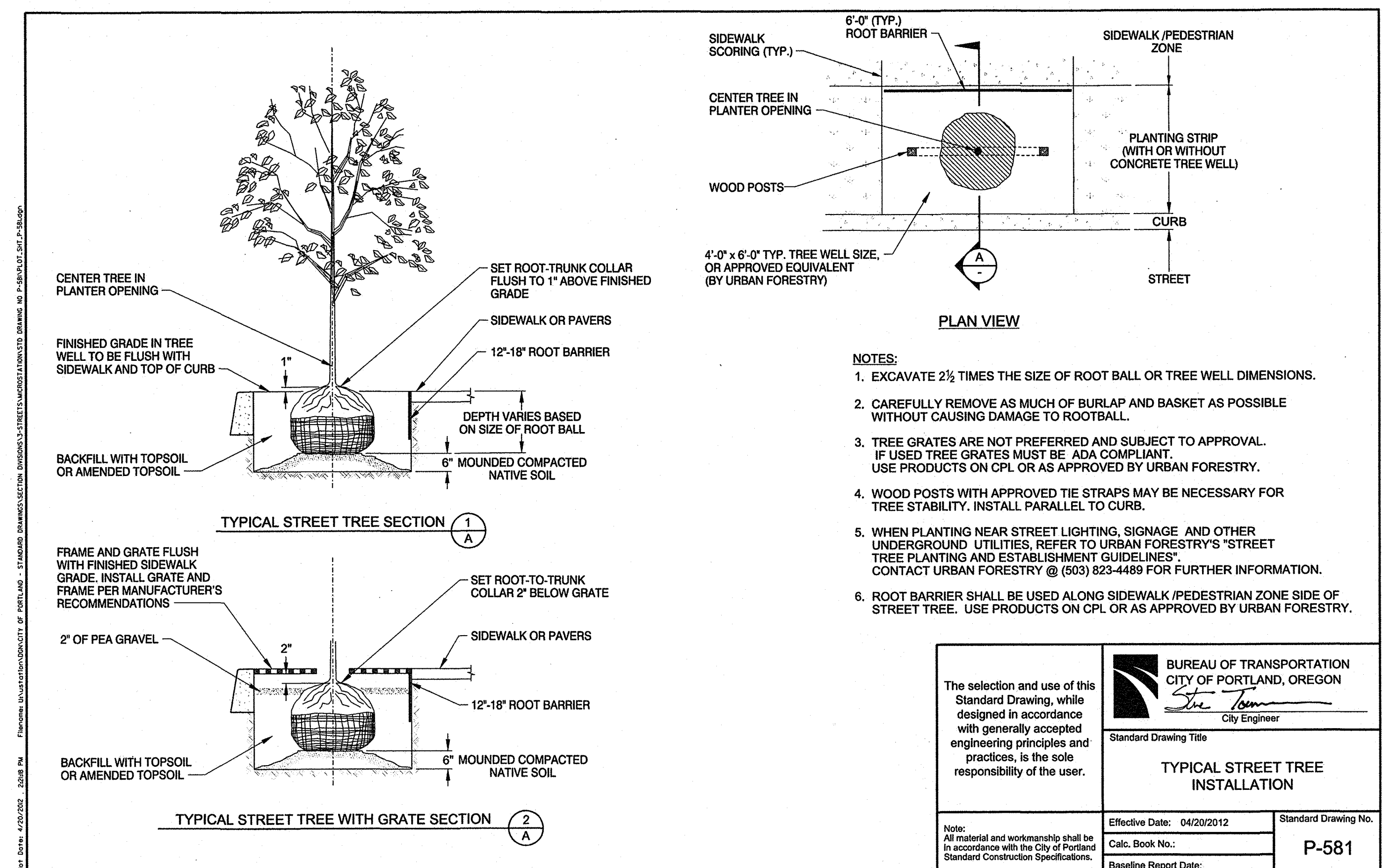
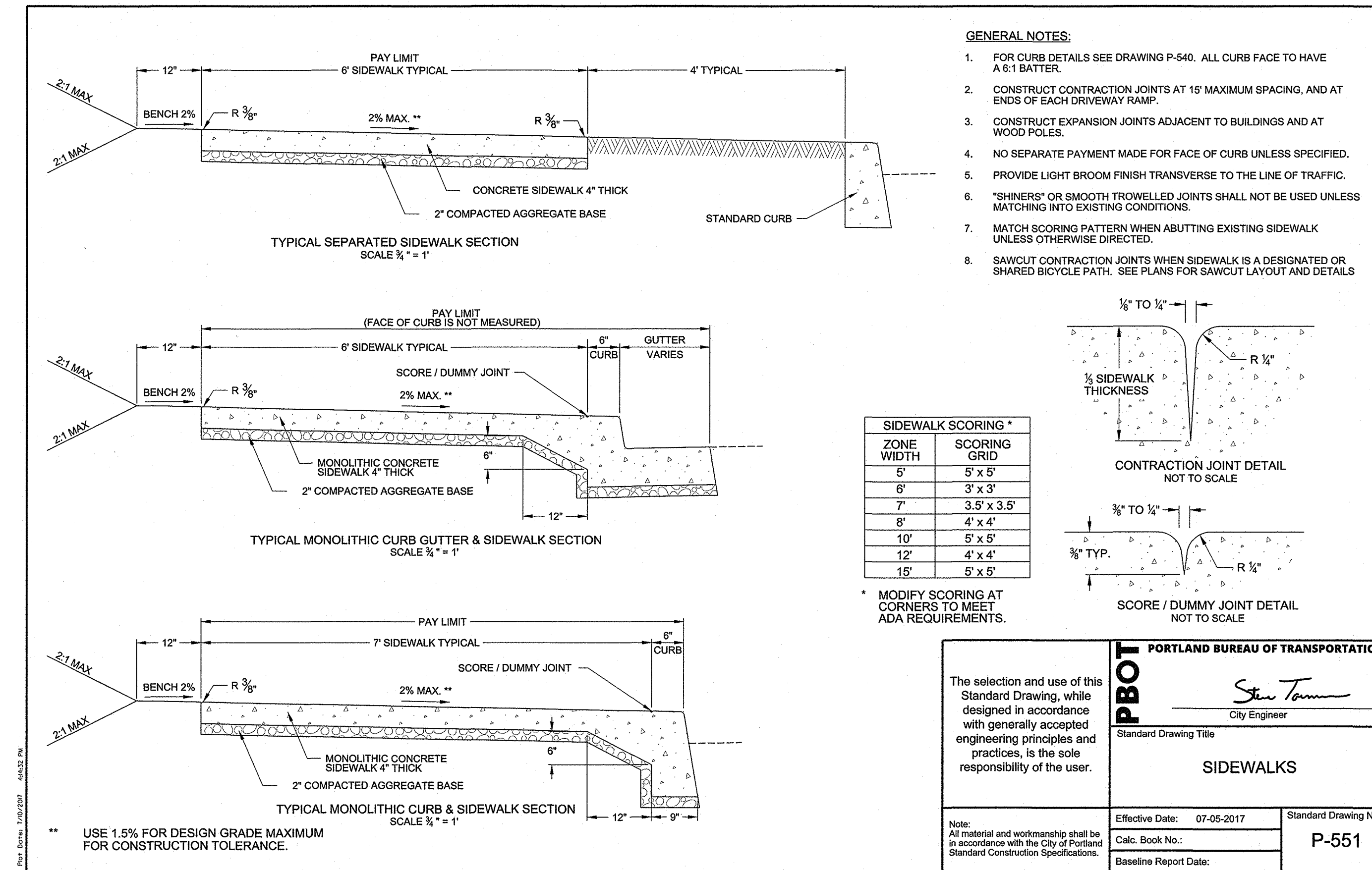
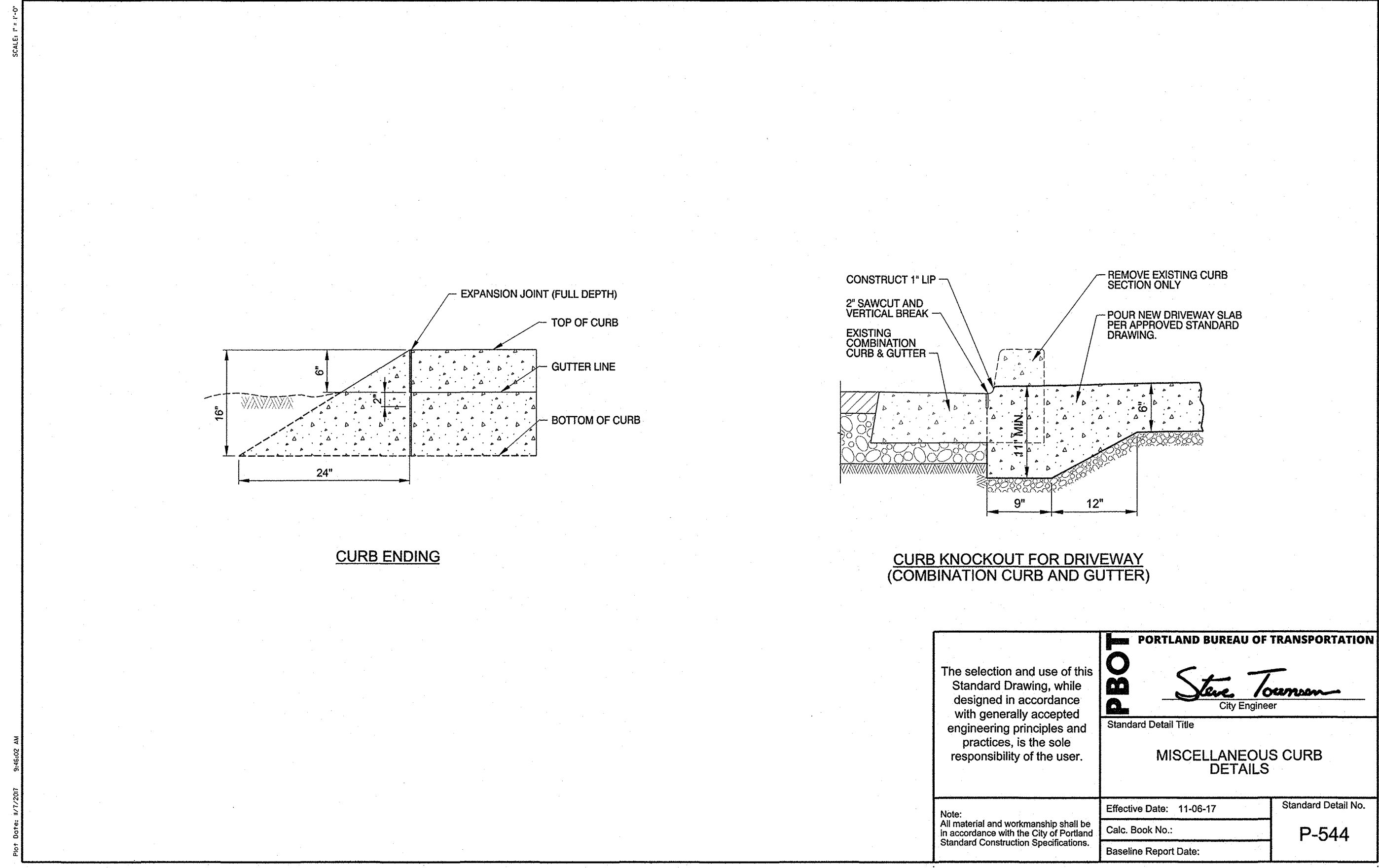
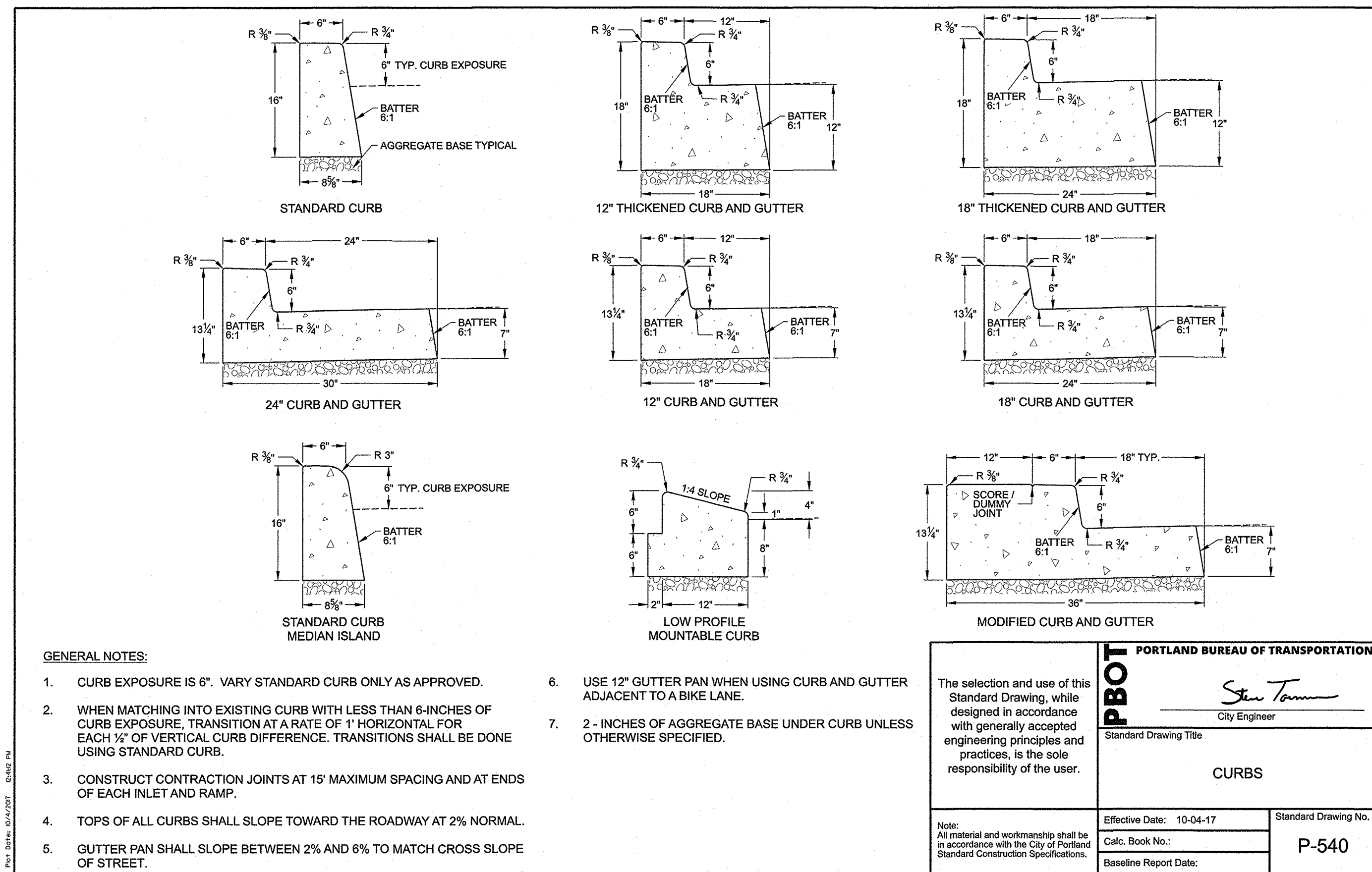




DESIGNED BY SWH				DATE APPROVED			
PROJECT COMPLETED				SECTION ENGR			
MAP CORRECTED BY				BES REVIEWER			
CHECKED BY				PBOT REVIEWER			
NO. DATE DESCRIPTION APPD.				AM			
REVISIONS				FINAL MAP DATA			

APPROVALS:		BUREAU OF ENVIRONMENTAL SERVICES		BUREAU OF TRANSPORTATION		EMERIO Design		PUBLIC IMPROVEMENTS		BES JOB NO.	
NICK FISH		COMMISSIONER		CHLOE EUDALY		COMMISSIONER		N HUMBOLDT ST WEST OF N GAY AVE		EP492	
WILLIAM F. RYAN, P.E.		CHIEF ENGINEER		STEVE TOWNSEN, P.E.		CITY ENGINEER		STANDARD DETAILS		TH0793	
PBOT CITY ENGINEER		REG. PROF. ENGR. 51538PE		REG. PROF. ENGR. 75155PE		REG. PROF. ENGR. 82915PE		OREGON		SHEET NO.	
PBOT PRINCIPAL ENGINEER		REG. PROF. ENGR. 16301PE		REG. PROF. ENGR. 51538PE		REG. PROF. ENGR. 82915PE		EXPIRES: 6/30/2019		8 OF 9	

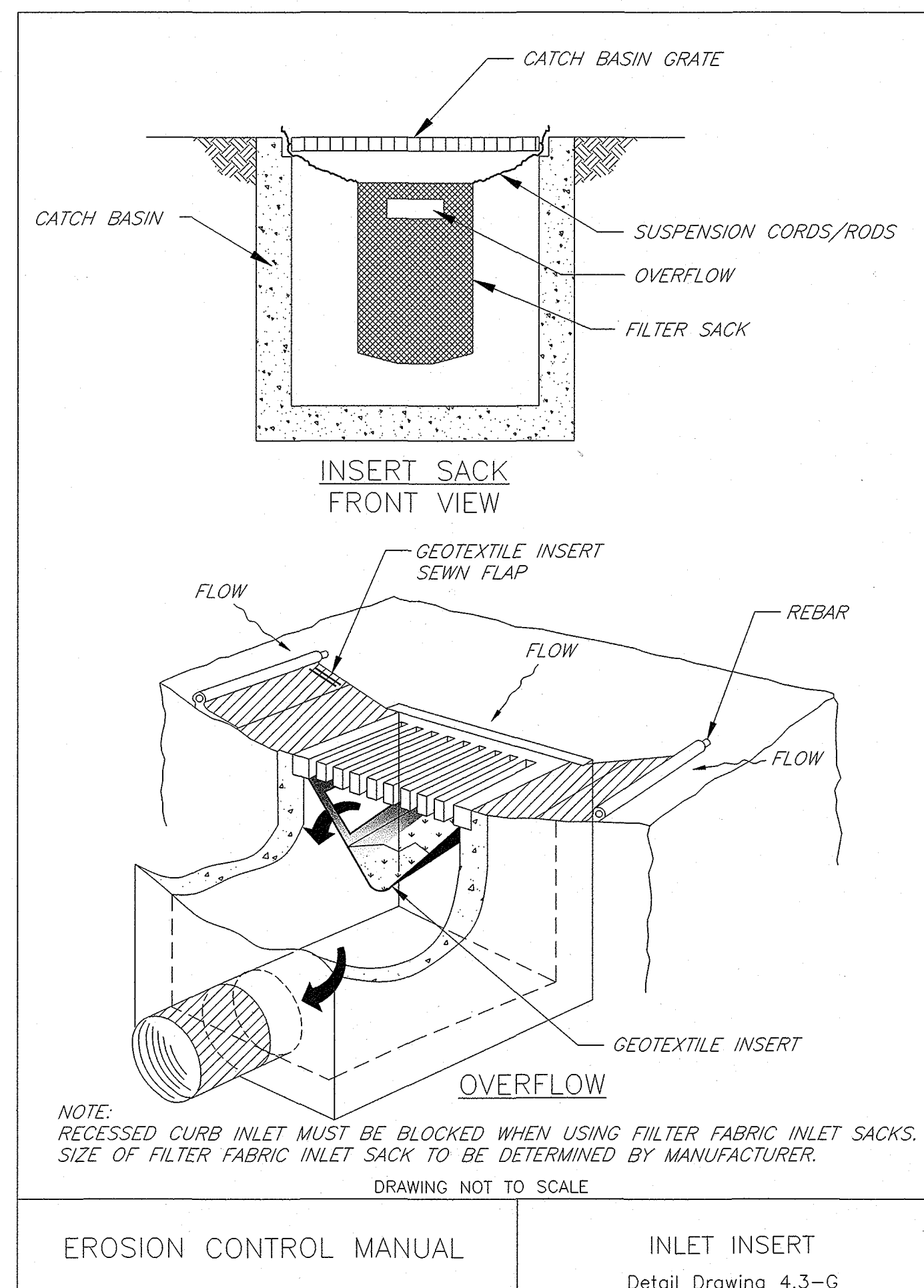
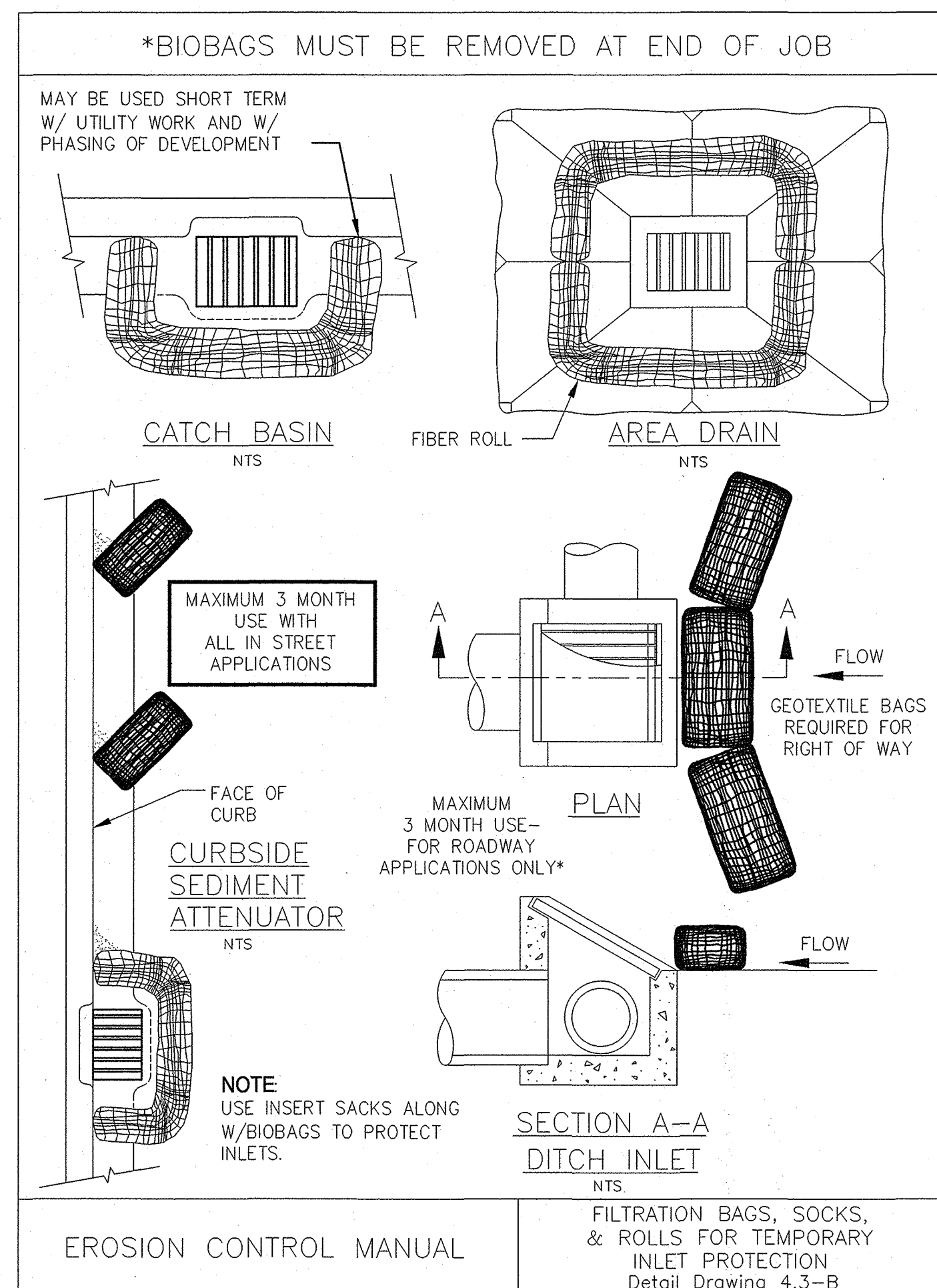




DESIGNED BY: SWH CAD BY: SWH CHECKED BY: SWH DATE APPROVED: 5/14/19				APPROVALS: BES CHIEF ENGINEER: <i>William F. Ryan</i> REG. PROF. ENGR. 18301PE PBOT PRINCIPAL ENGINEER: <i>Steve Townsend</i> REG. PROF. ENGR. 75155PE PBOT CITY ENGINEER: <i>Steve Townsend</i> REG. PROF. ENGR. 51538PE				BUREAU OF ENVIRONMENTAL SERVICES NICK FISH, COMMISSIONER WILLIAM F. RYAN, P.E., CHIEF ENGINEER				BUREAU OF TRANSPORTATION CHLOE EUDALY, COMMISSIONER STEVE TOWNSEN, P.E., CITY ENGINEER				EMERIO Design 6445 SW FALLBROOK PL., STE 100 BEAVERTON, OREGON 97008 TEL: (503) 746-8812 www.emeriodesign.com				PUBLIC IMPROVEMENTS N HUMBOLDT ST WEST OF N GAY AVE <b>STANDARD DETAILS</b>				BES JOB NO.: EP492 PBOT JOB NO.: TH0793 SHEET NO.: 9 OF 9			
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- EROSION CONTROL NOTES:

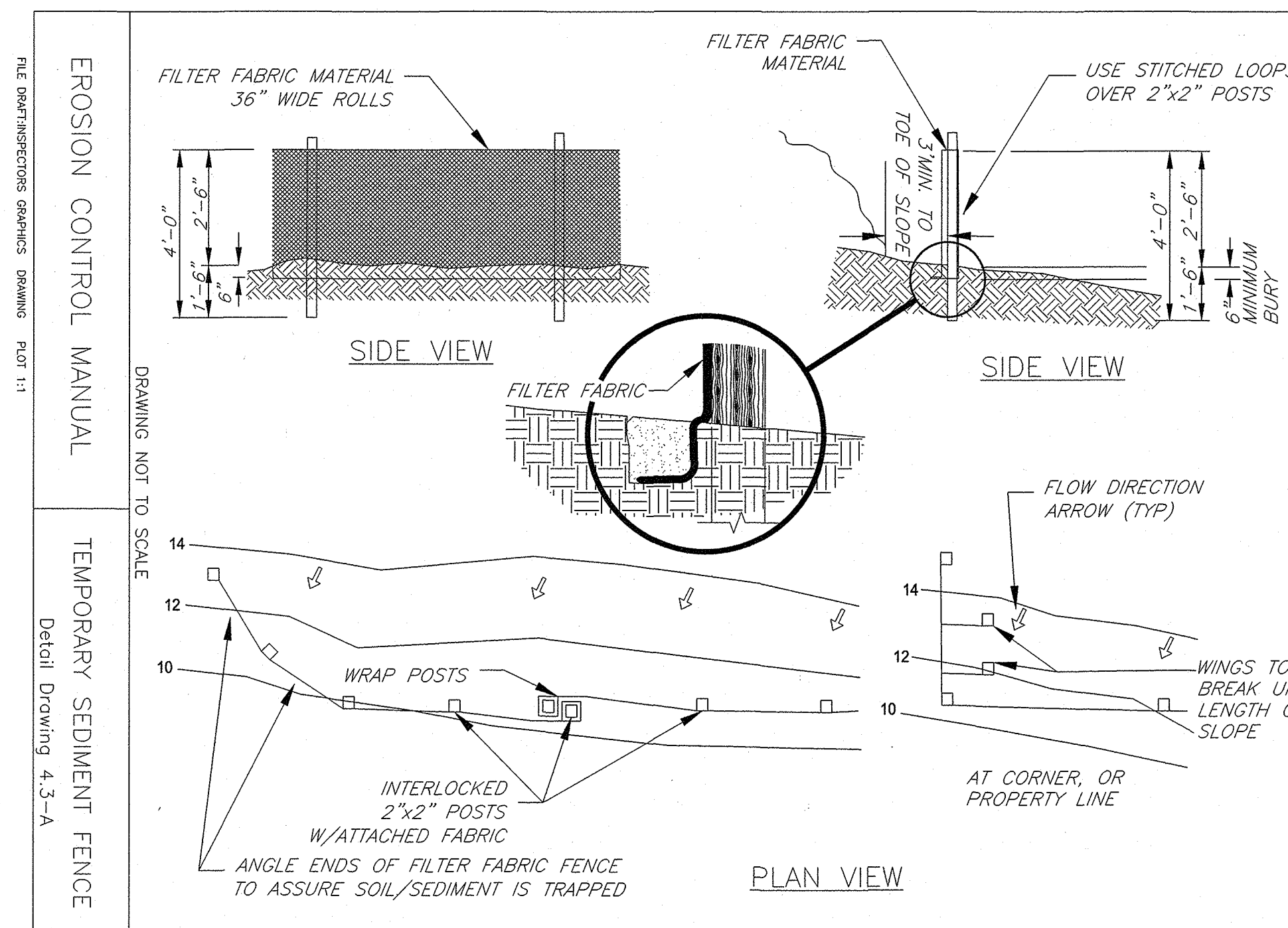
1. APPROVAL OF THIS EROSION SEDIMENT AND POLLUTION CONTROL PLAN (ESPCP) DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
2. THE IMPLEMENTATION OF THIS ESPCP AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE ESPCP FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED, VEGETATION/LANDSCAPING IS ESTABLISHED.
3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE APPLICANT/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
4. THE ESPCP FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM ROADWAYS OR VIOLATE APPLICABLE WATER STANDARDS.
5. THE ESPCP FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESPCP FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS, AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DOES NOT LEAVE THE SITE.
6. THE ESPCP FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
7. THE ESPCP FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A WEEK OR WITHIN THE 24 HOURS FOLLOWING A STORM EVENT.
8. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
9. APPLICANT/ CONTRACTOR TO PUT UP ALL REQUIRED EROSION CONTROL SIGNAGE PRIOR TO GROUND DISTURBANCE. A CD WITH ALL REQUIRED EROSION CONTROL SIGNS WILL BE PROVIDED AT THE PRE-CONSTRUCTION MEETING.

- SEDIMENTATION FENCE NOTES:

1. THE FILTER FABRIC FENCE SHALL BE INSTALLED TO FOLLOW THE CONTOURS WHERE FEASIBLE. THE FENCE POSTS SHALL BE SPACED A MAXIMUM OF 6' APART AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 24".
2. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6" OVERLAP, AND BOTH ENDS SECURELY FASTENED TO THE POST, OR OVERLAP 2" X 2" POSTS AND ATTACH AS SHOWN ON DETAIL SHEET 4-3A OF THE EROSION CONTROL MANUAL.
3. THE FILTER FABRIC SHALL HAVE A MINIMUM VERTICAL BURIAL OF 6". ALL EXCAVATED MATERIAL FROM FILTER FABRIC INSTALLATION SHALL BE BACKFILLED AND COMPACTED ALONG THE ENTIRE DISTURBED AREA.
4. STANDARD OR HEAVY-DUTY FILTER FABRIC FENCES SHALL HAVE MANUFACTURED STITCHED LOOPS FOR 2" X 2" POST INSTALLATION. STITCHED LOOPS SHALL BE INSTALLED ON THE UP HILLSIDE OF THE SLOPED AREA.
5. FILTER FABRIC FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY PROTECTED AND STABILIZED.
6. FILTER FABRIC FENCES SHALL BE INSPECTED BY APPLICANT/CONTRACTOR IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

- SIGNAGE NOTES:

1. SITE EROSION CONTROL PLANS TO BE APPROVED AND CONTROLS IN PLACE PRIOR TO GRADING AND WORKING IN THE RIGHT-OF-WAY.

[illegible]