PROJECT

SE 134th AVE & SE FOSTER ROAD SANITARY SEWER EXTENSION

LOCATION

6445 SE 134th AVENUE CITY OF PORTLAND 97230 MULTNOMAH COUNTY, OREGON

DEVELOPER:

MARK PERKINS 11471 SE CLOVER LANE

PORTLAND, OR 97266 PHONE (503) 793-5678

EMAIL: jmarkperkins@gmail.com

ENGINEER

PINNACLE ENGINEERING ASSOCIATES CORPORATION (JAMES STORMO) 17757 KELOK ROAD LAKE OSWEGO, OREGON 97034 TELEPHONE (503) 636-4005 FAX: (503) 636-4015 EMAIL: jamesstormo@comcast.net

GENERAL NOTES:

FROM BUREAU OF DEVELOPMENT SERVICES.

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 (JAMES STORMO OF PINNACLE ENGINEERING AT 503-636-4005) TO HAVE THE CORRECTIONS MADE. ALL CHANGES WILL REQUIRE THE APPROVAL OF THE BES CHIÉF ENGINEER PRIOR TO THE WORK BEGINNING

2. ALL CONSTRUCTION SHALL CONFORM TO 2010 CITY OF PORTLAND STANDARD CONSTRUCTION SPECIFICATIONS (SCS). CONTRACTOR AND/OR SUBCONTRACTOR SHALL HAVE A MINIMUM OF ONE SET OF APPROVED PLANS AND CITY OF PORTLAND STANDARD CONSTRUCTION SPECIFICATIONS ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.

3. ELEVATIONS ARE BASED ON CITY OF PORTLAND DATUM USING BENCHMARK NO. 3061 ELEVATION OF BRASS CAP = 248.087 LOCATED AT THE INTERSECTION OF SE GLENWOOD STREET SE 134th AVENUE.

4. ATTENTION EXCAVATORS: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY 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.

5. CONTRACTOR SHALL MAINTAIN FLOWS IN THE EXISTING SYSTEM AT ALL TIMES.

6. ALL SEWER TRENCH LINES AND EXCAVATIONS SHALL BE PROPERLY SHORED AND BRACED TO PREVENT CAVING AS REQUIRED BY OREGON OCCUPATIONAL SAFETY AND HEALTH (OSHA) AND SECTION 00405.41(F) OF THE CITY OF PORTLAND STANDARD CONSTRUCTION SPECIFICATIONS.

7. EXCAVATED SEWER TRENCH SPOIL MATERIAL SHALL BE DISPOSED OF AT A PROPER LANDFILL, OR APPLICANT SHALL OBTAIN A FILL 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. ANY WORK OUTSIDE THE PUBLIC RIGHT OF WAY. INCLUDING CUTS FILLS GRADING AND CLEARING MAY REQUIRE PERMITS

8. UNANTICIPATED CONTAMINATION ENCOUNTERED DURING CONSTRUCTION IN CITY RIGHT OF WAY. A) THE APPLICANT IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH PROPER CHARACTERIZATION, IDENTIFICATION ANALYSIS, MANAGEMENT AND DISPOSAL OF CONTAMINATED MEDIA ENCOUNTERED WITHIN THE CITY RIGHT-OF-WAY OR ON CITY PROPERTY. THE APPLICANT IS ALSO RESPONSIBLE FOR ALL RESULTANT DELAYS.

B) THE APPLICANT WILL PROVIDE THE CITY (ENGINEER AND INSPECTORS) 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 SLIPS AMOUNTS SHALL BE CHECKED AGAINST INSPECTOR'S DAILY REPORTS. THE APPLICANT MUST USE AN OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY- APPROVED DISPOSAL FACILITY FOR DISPOSAL OF THE CONTAMINATED MEDIA.

9. FOUNDATION STABILIZATION MAY BE NECESSARY AS PER CITY OF OF PORTLAND STANDARD CONSTRUCTION SPECIFICATIONS AND APPROVED BY BES.

10. MAINTAIN MINIMUM OF 36" OF COVER OVER ALL PIPE IN UNPAVED EASEMENT AREAS.

11. THE CONTRACTOR SHALL INSTALL MARKER BALLS ON ALL STORM AND SANITARY SEWER MAINLINE PIPE AND LATERALS. SEE SPECIFICATION SECTION 00446.

12. MARK ENDS OF ALL STUB OUTS AND LATERALS W/CONTINUOUS PRESSURE TREATED 2" X 4". TOP 12' TO 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 2" X 4" TO I.E. OF STUB OR LATERAL

13. CITY OF PORTLAND MAINTENANCE OF HOUSE BRANCHES END AT THE CURB LINE IN RIGHTS-OF-WAY AND AT THE END OF THE TEE IN EASEMENTS.

14. BUREAU OF DEVELOPMENT SERVICES (BDS) PLUMBING DIVISION APPROVALS AND PERMITS ARE REQUIRED FOR PRIVATELY MAINTAINED SEWER, INLETS, INLET LEADS & SERVICE LATERALS CONSTRUCTED OUTSIDE OF PUBLIC RIGHT-OF-WAY OR SEWER EASEMENT. ALL WORK APPROVED UNDER PLUMBING PERMITS SHALL BE PRIVATELY OWNED AND MAINTAINED.

15. STREET RESTORATION SHALL BE PER THE REQUIREMENTS OF THE PBOT STREET OPENING

16. INSTALL LATERAL CURB MARKERS ON ALL NEW LATERALS PER SPECIFICATION 00446.11.

PIPE TESTING REQUIREMENTS:

17. ALL STORM AND SANITARY SEWERS WILL BE AIR TESTED AND SHALL BE SUBJECT TO OTHER TESTING REQUIREMENTS AS OUTLINED IN THE CITY OF PORTLAND STANDARD CONSTRUCTION

18. SEWER SHALL BE VIDEO INSPECTED (TV'D) AT THE SOLE EXPENSE OF THE APPLICANT/CONTRACTOR. APPLICANT/CONTRACTOR TO PROVIDE A VIDEO OF THE FINAL FULL INSPECTION TO BES MAINTENANCE ENGINEERING.

19. MANDREL TESTING IS REQUIRED ON ALL HDPE AND PVC PIPE. A 30-DAY WAITING PERIOD IS REQUIRED ON ALL MANDREL TESTING.

PRECONSTRUCTION REQUIREMENTS:

20. A TEMPORARY TRAFFIC CONTROL PLAN (TTCP) IS REQUIRED BEFORE ANY WORK CAN COMMENCE WITHIN THE PUBLIC RIGHT OF WAY. THE TTCP IS PART OF THE TEMPORARY USE OF THE RIGHT OF WAY PERMIT. THE APPLICATION CAN BE FOUND AT THE FOLLOWING LINK: HTTP://WWW.PORTLANDOREGON.GOV/TRANSPORTATION/ARTICLE/174124

21. A COPY (EITHER ELECTRONIC OR PAPER) OF THE APPROVED TTCP SHALL BE PROVIDED TO THE INSPECTOR BEFORE ANY STREET OR SIDEWALK CLOSURES. CONTACT BEN BALDWIN AT TRI-MET 14-DAYS PRIOR TO STARTING CONSTRUCTION AT 503-962-2140.

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

23. LOCATIONS OF EXISTING STRUCTURES AND UTILITIES ARE FOR INFORMATION PURPOSES ONLY. APPLICANT/CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH (ELEVATION) OF EXISTING UTILITIES AND OTHER FIELD CONDITIONS PRIOR TO CONSTRUCTION

24. CONTRACTOR TO SUBMIT UTILITY SUPPORT PLAN TO BES CONSTRUCTION SERVICES 14-DAYS PRIOR TO STARTING WORK, OR, IF SPECIFICALLY REQUESTED BY PWB.

25. CONTRACTOR TO SUBMIT ENGINEERED SUPPORT PLAN FOR CROSSING THE WATER LINE TO BES CONSTRUCTION SERVICES 14-DAYS PRIOR TO STARTING WORK.

26. CONTRACTOR TO SUBMIT ENGINEERED SHORING PLAN TO BES CONSTRUCTION SERVICES FOR EXCAVATIONS 20' DEEP OR GREATER A MINIMUM OF 14 DAYS PRIOR TO CONSTRUCTION.

27. PRECONSTRUCTION MEETING REQUIRED. APPLICANT/CONTRACTOR TO CONTACT RAY LIONS AT BES A MINIMUM OF 4 BUSINESS DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION TO SCHEDULE MEETING. (503) 823-7128.

28. ALL COST OF SANITARY SEWER CONSTRUCTION BORNE BY THE DEVELOPER/OWNER OF 6445 SE 134th AVENUE (CROSSCREEK MEADOWS PROJECT). 29. PUBLIC STREET IMPROVEMENTS ALONG SE 134th AVENUE TO BE CONSTRUCTED UNDER

PORTLAND OFFICE OF TRANSPORTATION PERMIT JOB NO. THO491.

30. THIS PROJECT WAS REIMBURSED (LINE AND BRANCH) FROM THE FOLLOWING PROPERTIES: TAX LOT 4900 (R249968), 6432 SE 134th AVE (R249969), 6436 SE 134th AVE (R201446), 6464 SE 134th AVE (R237194), 6478 SE 134th AVE (R201450), 6469 SE 134th AVE (R201457), 6470 SE 134th AVE (R237195), 6481 SE 134th AVE (R201453).

SHEET INDEX TITLE SHEET & NOTES SANITARY LINE "A" PLAN

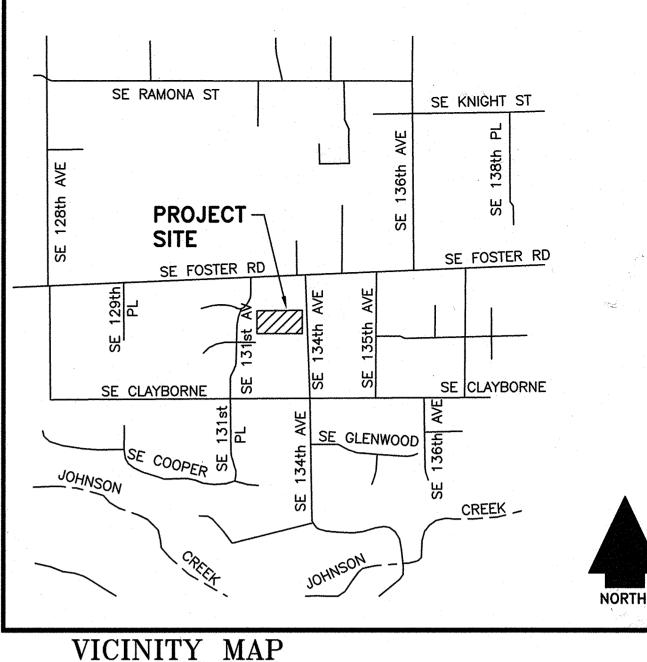
STANDARD DETAILS STANDARD DETAILS

& PROFILE

STANDARD DETAILS

EROSION CONTROL PLAN

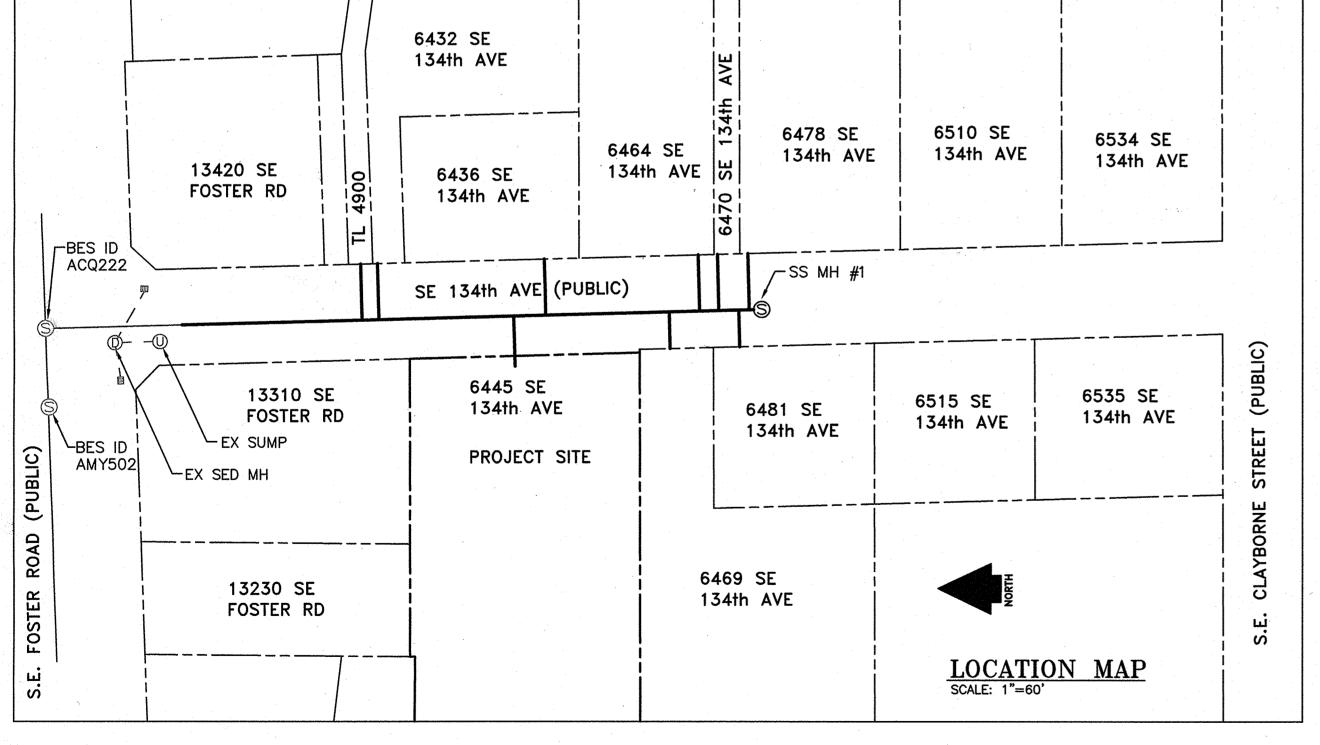
EROSION CONTROL DETAILS



SCALE: 1"=600'

LEGEND

EXISTING CURB NEW CURB NEW SANITARY LINE NEW SIDEWALK EXISTING SANITARY LINE EXISTING STORM LINE: - - - 12" SD - -**EXISTING CONCRETE EXISTING INLET** EX. EDGE OF GRAVEL BOUNDARY LINE PROPOSED EDGE ASPHALT PROPOSED CENTERLINE EXISTING CONTOUR LINE **EXISTING TREES** EXISTING WATERLINE — 6" W — — EXISTING TREES TO BE REMOVED EX. SANITARY MANHOLE NEW WATER METER BOX NEW SANITARY MANHOLE NEW WATER VALVE PROPOSED P.U.E. PROPOSED STREET TREE **NEW STREET LIGHT** EX. GAS LINE EXISTING STREET LIGHT EX. WATER VALVE **NEW FIRE HYDRANT** EX WATER METER EXISTING FIRE HYDRANT EX. WATER BLOW-OFF ASSY EX. EDGE OF PAVEMENT



FINAL MAP DATA

STORMO

STORMO

STORMO

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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). 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 503-246-6699. POTENTIAL UNDERGROUND FACILITY OWNERS Dig Safely. Call the Oregon One-Call Center 1-800-332-2344

NOTICE TO EXCAVATORS:

ATTENTION: OREGON LAW REQUIRES YOU

TO FOLLOW RULES ADOPTED BY THE

OREGON UTILITY NOTIFICATION CENTER.

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

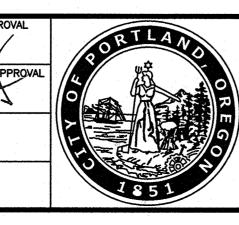
STORMWATER NARRATIVE

PRIVATE STORM WATER FROM THE ON-SITE DEVELOPMENT WILL DISPOSE OF STORM WATER ON SITE PER B.E.S. APPROVAL. ALL FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF PORTLAND STORM WATER MANAGEMENT MANUAL **PUBLIC:**

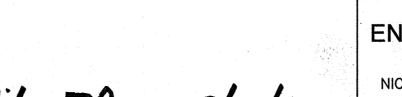
PUBLIC STORM WATER WILL BE DIRECTED TO AN EXISTING SED/SUMP SYSTEM LOCATED AT THE INTERSECTION OF SE 134th AVE AND SE FOSTER ROAD. WATER QUALITY AND DETENTION REQUIREMENTS FOR THIS PROJECT WILL BE MET BY UTILIZING THE EX. SED/SUMP SYSTEM PROJECT APPROVED TO DISCHARGE STORM WATER FROM PBOT STREET IMPROVEMENTS PROJECT NO. THO491 TO EXISTING SED/SUMP

NO. DATE DESC	RIPTIC

REVISIONS



APPROVAL:



BUREAU OF ENVIRONMENTAL SERVICES

NICK FISH COMMISSIONER

WILLIAM F. RYAN, P.E.

CHIEF ENGINEER

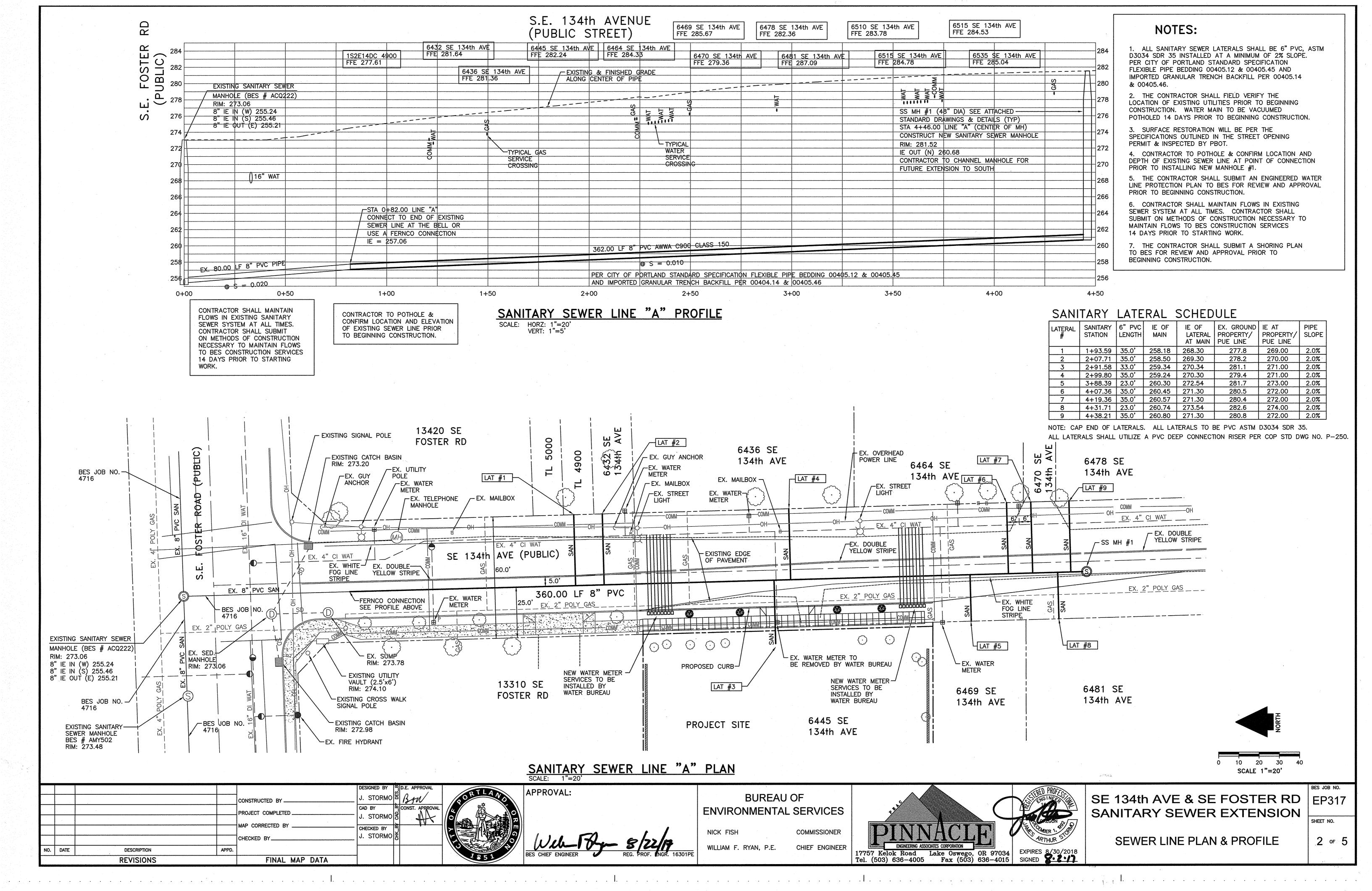
Lake Oswego, OR 97034 Fax (503) 636-4015 Tel. (503) 636-4005

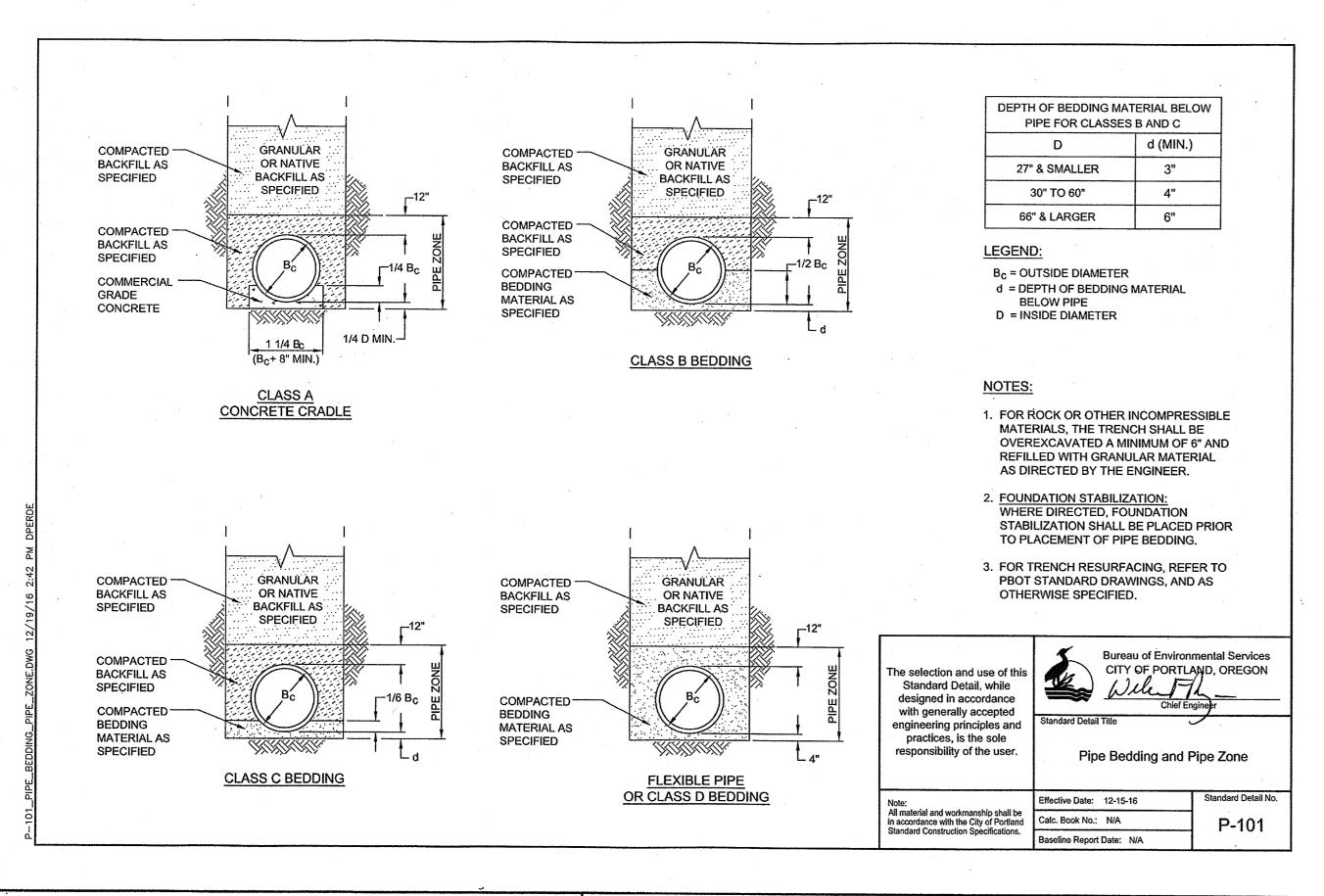
SE 134th AVE & SE FOSTER RD SANITARY SEWER EXTENSION

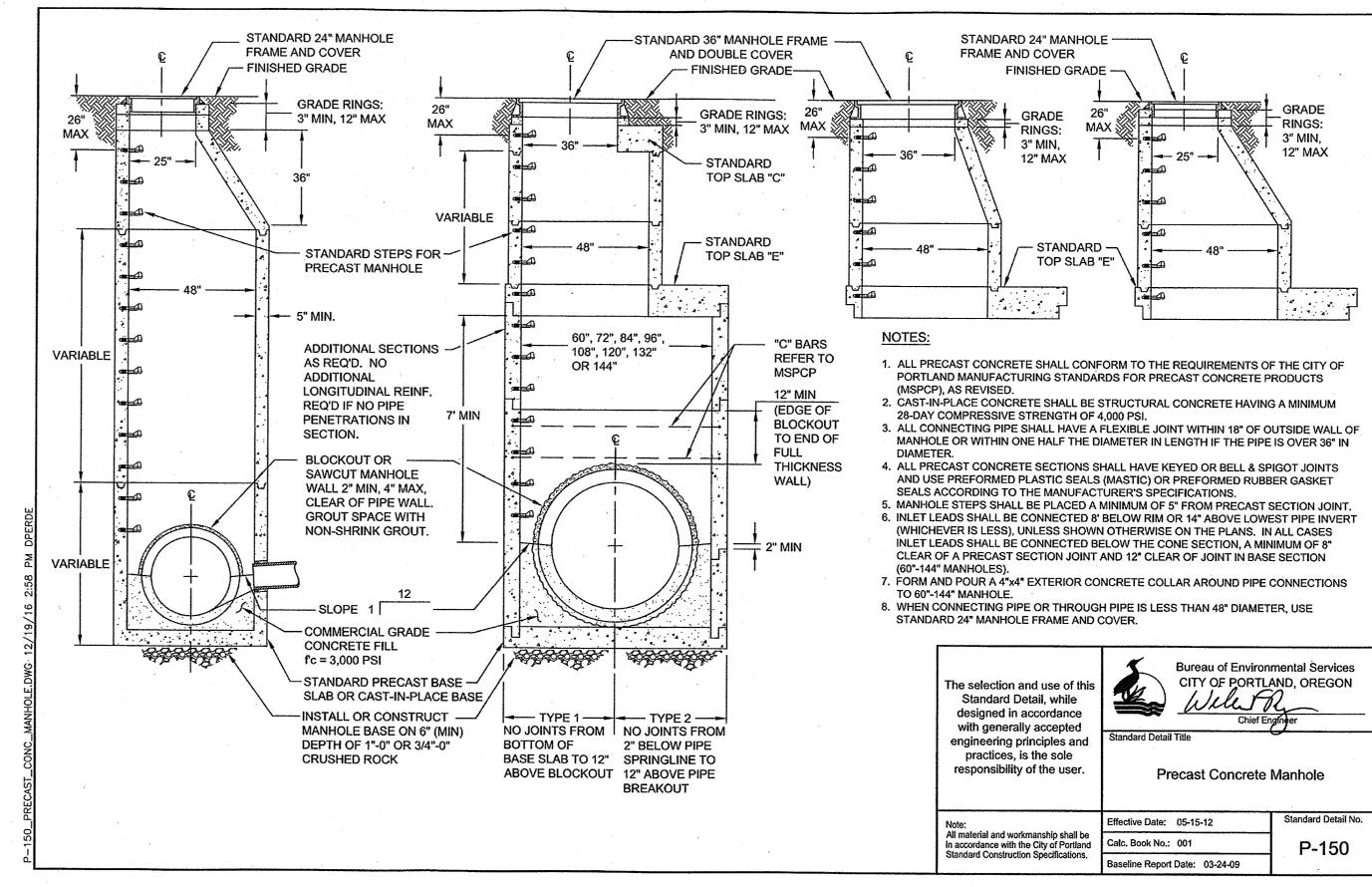
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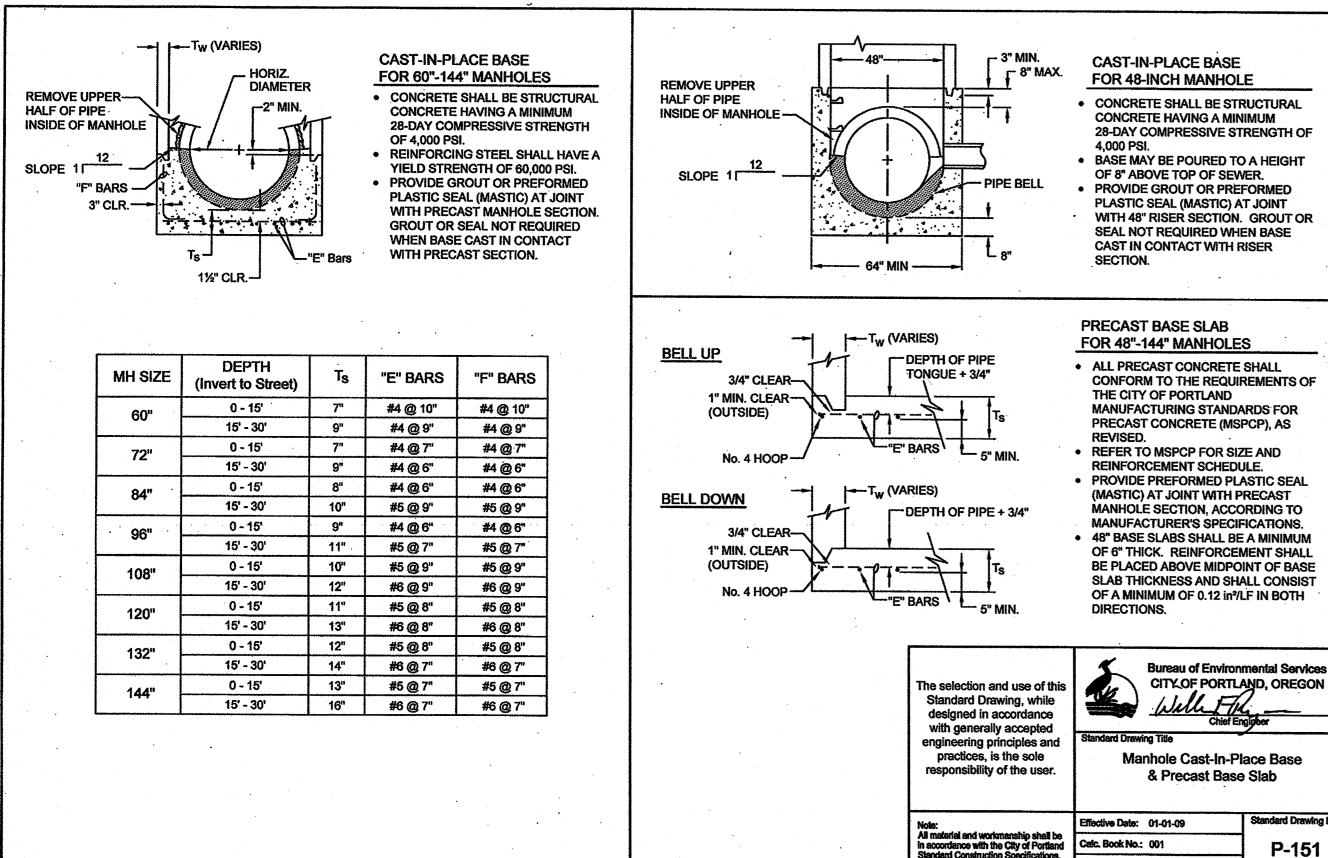
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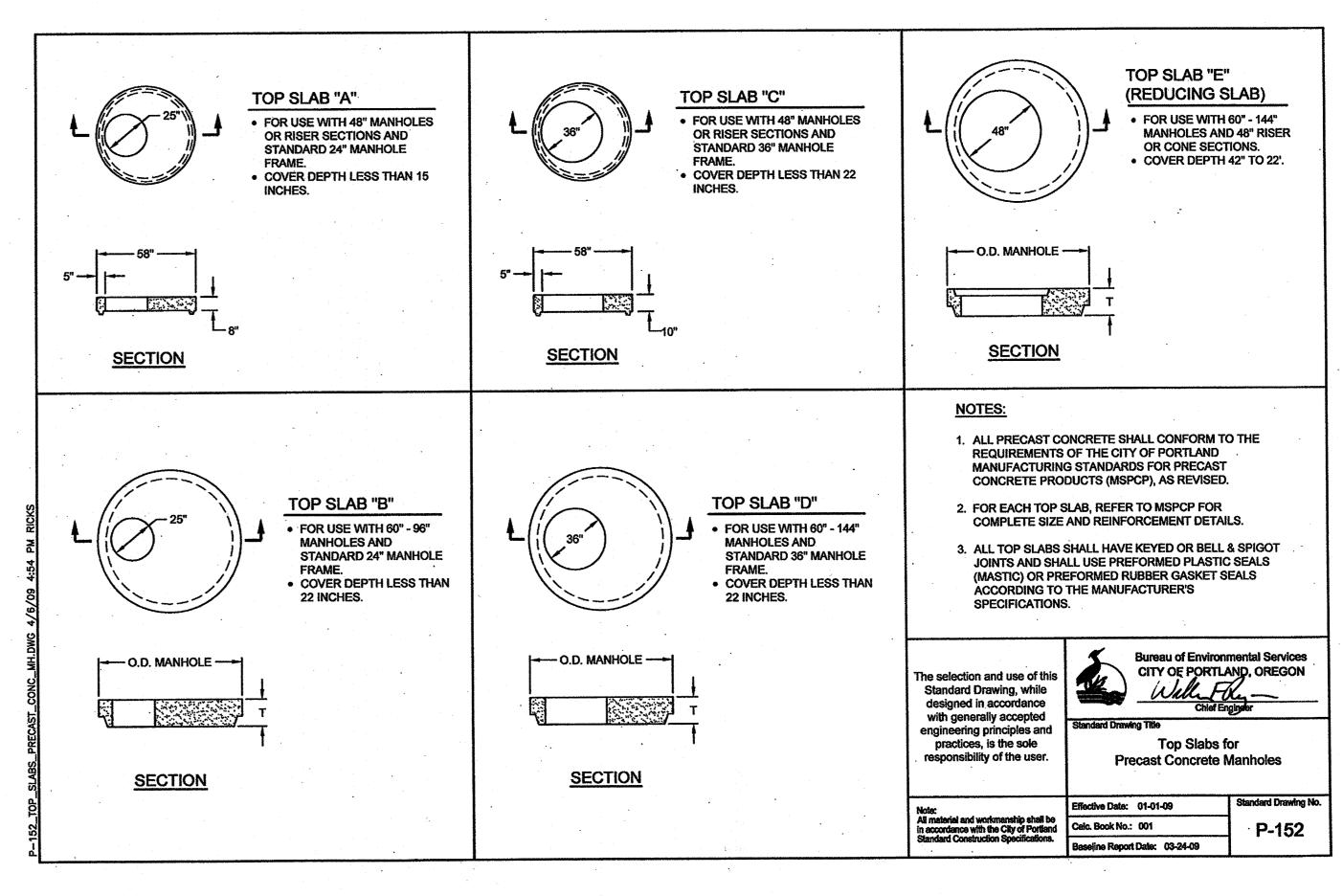
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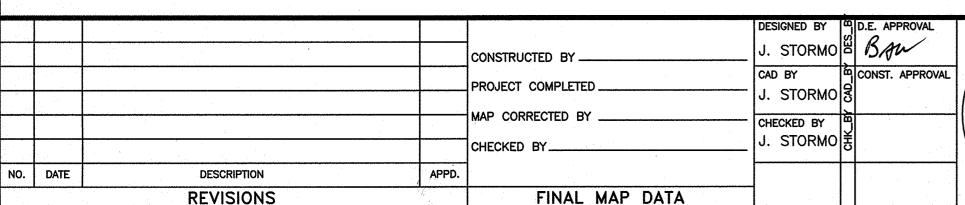


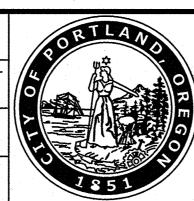












APPROVAL:

JULITOS — S/22/17
HIEF ENGINEER REG. PROF. ENGR! 16301PE

BUREAU OF ENVIRONMENTAL SERVICES

NICK FISH

COMMISSIONER

CHIEF ENGINEER

WILLIAM F. RYAN, P.E.

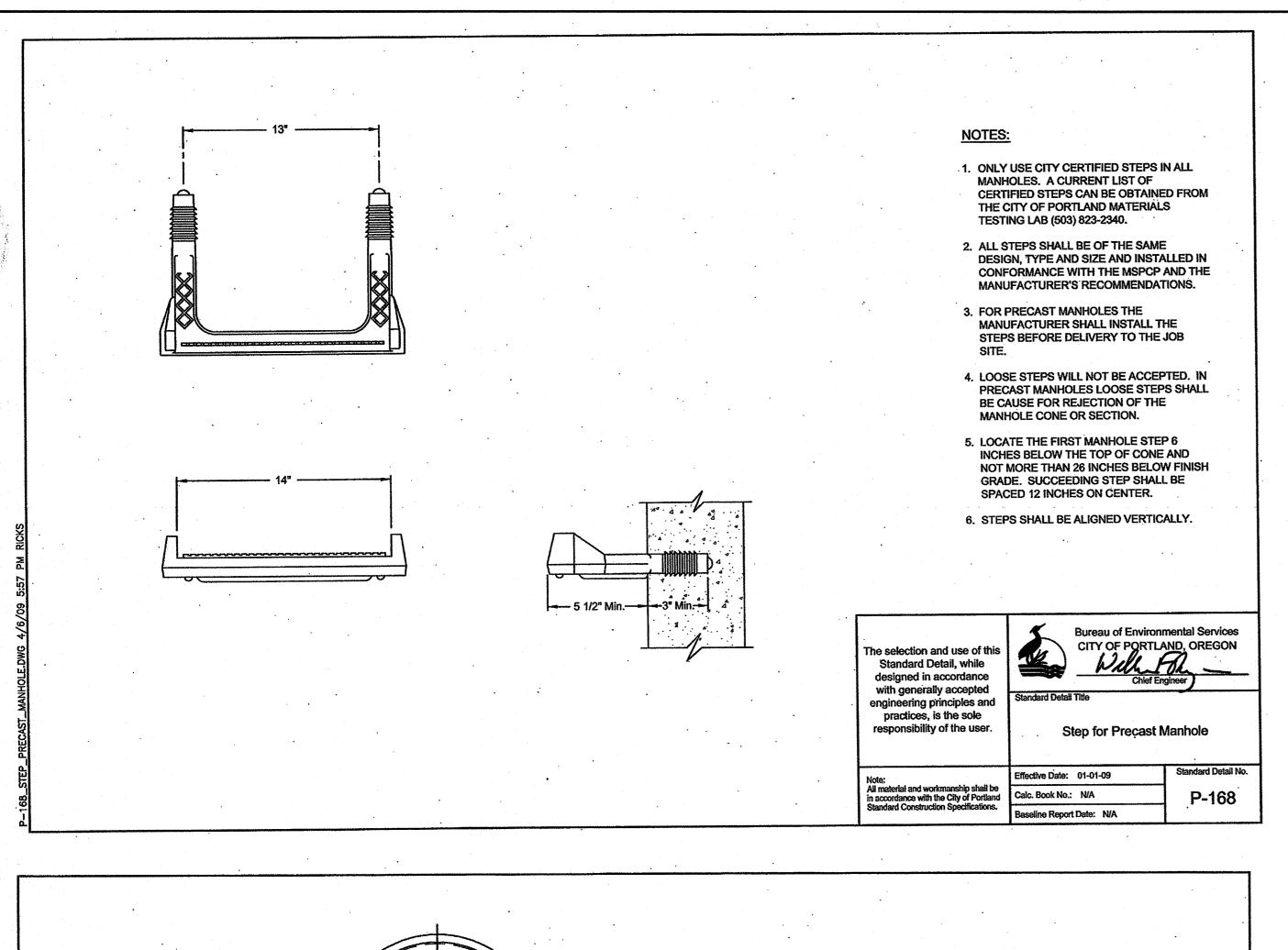


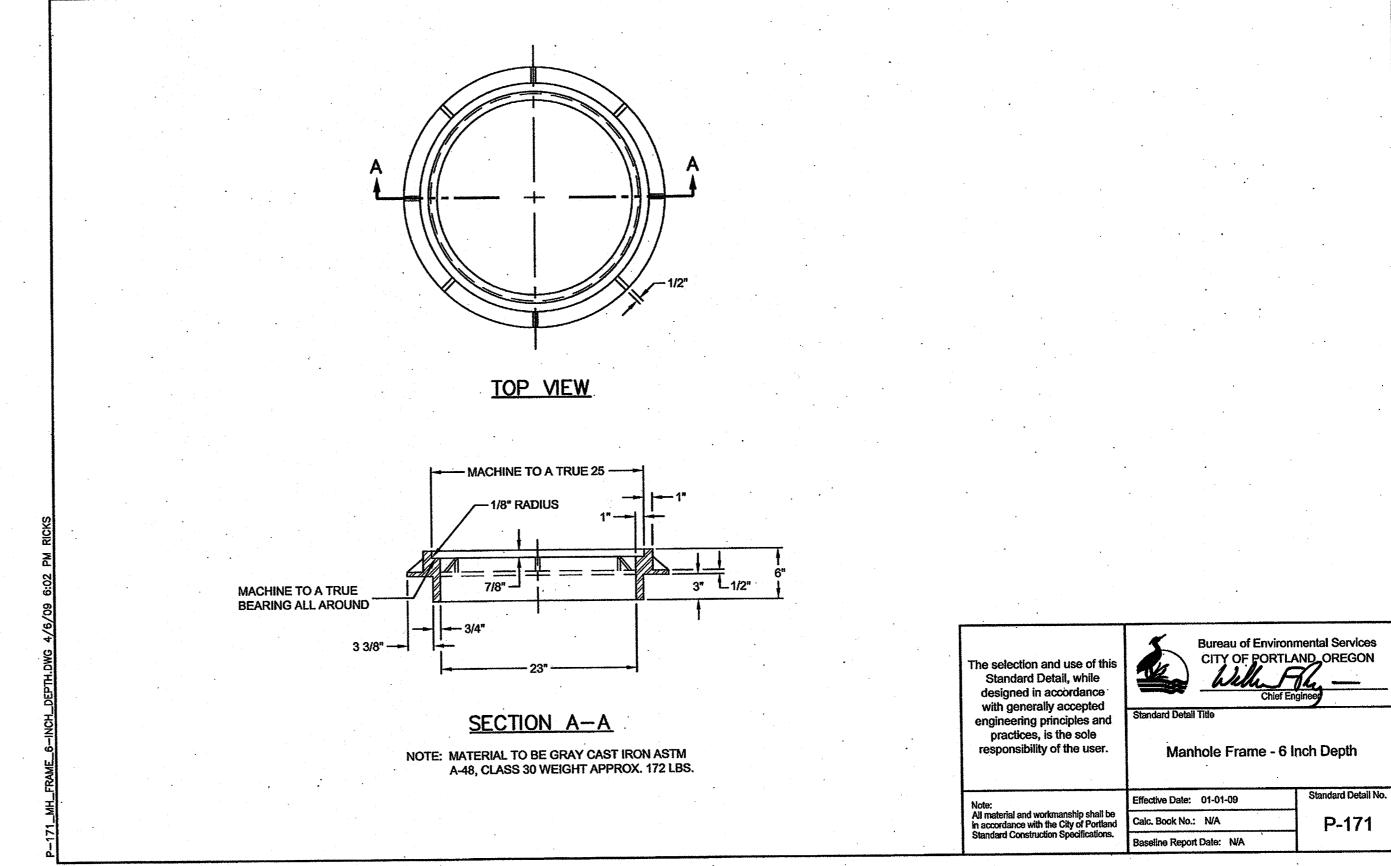
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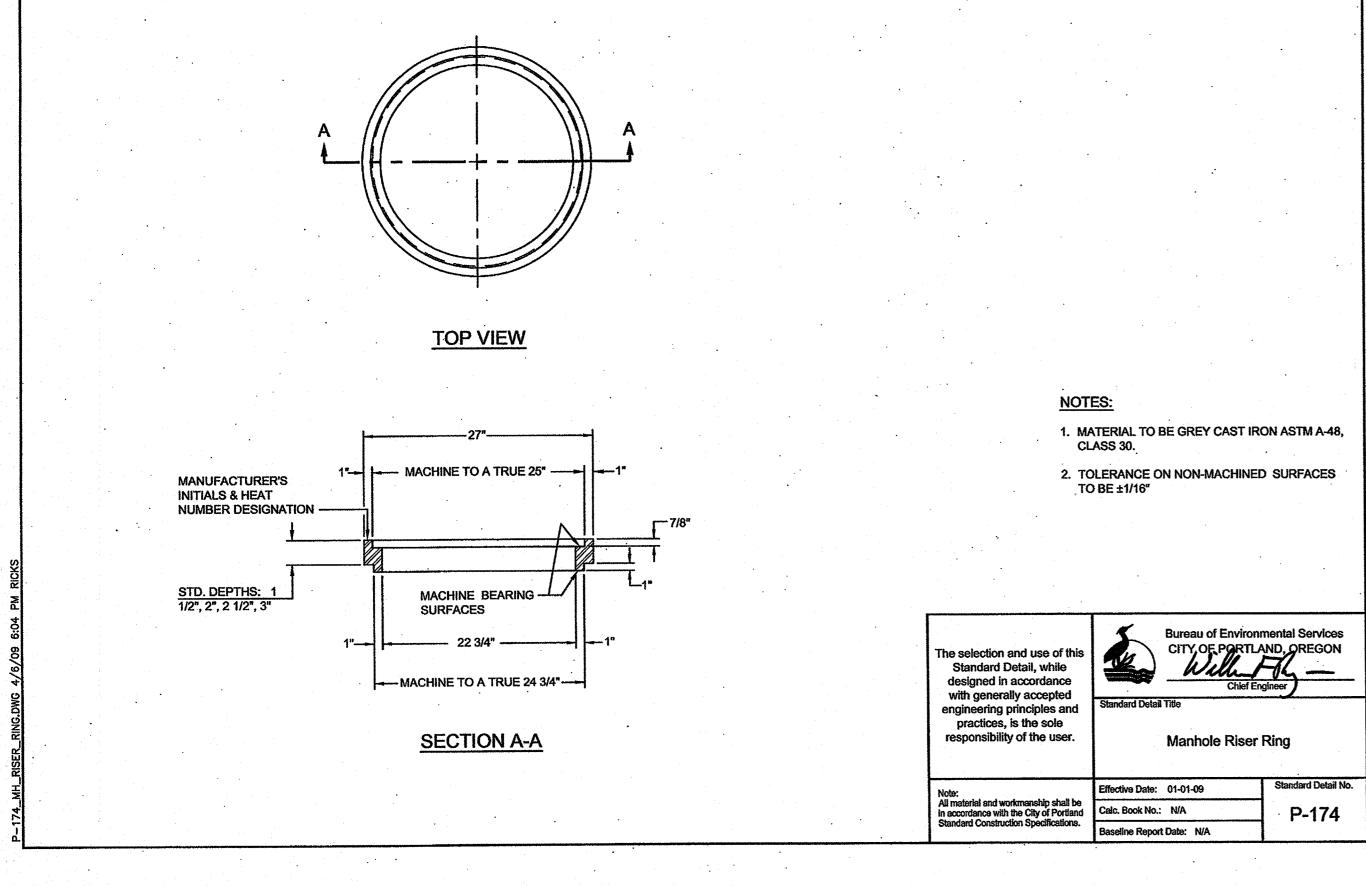
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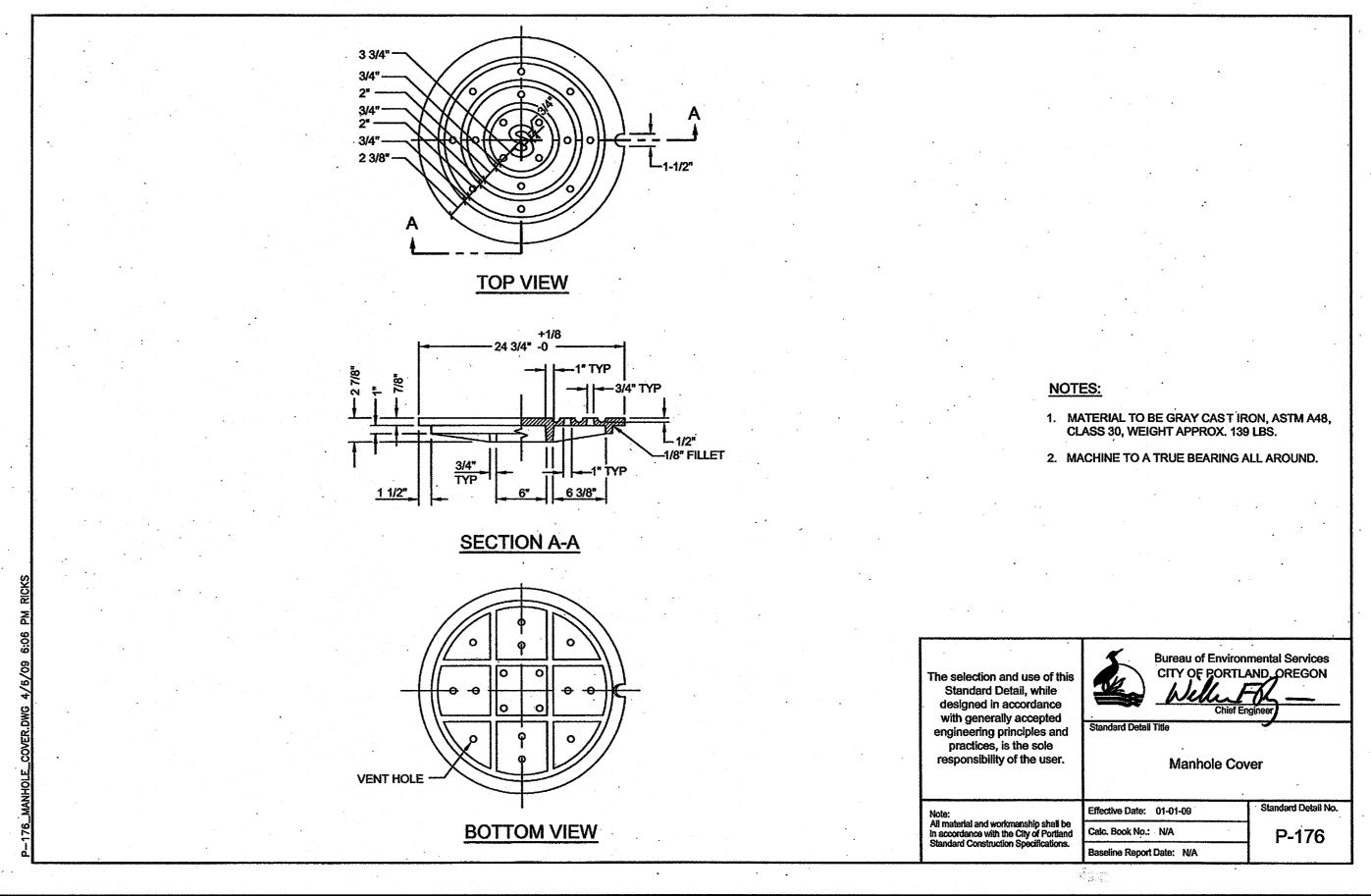
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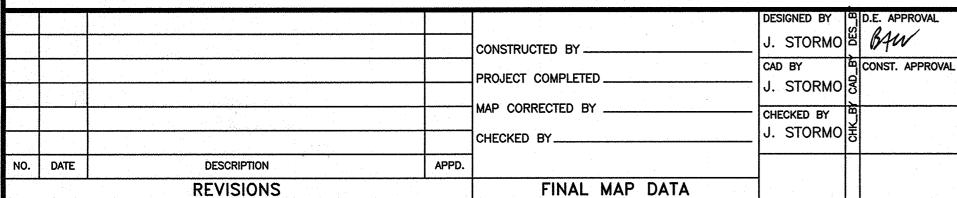
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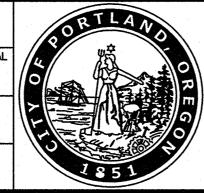












APPROVAL:



BUREAU OF ENVIRONMENTAL SERVICES

NICK FISH

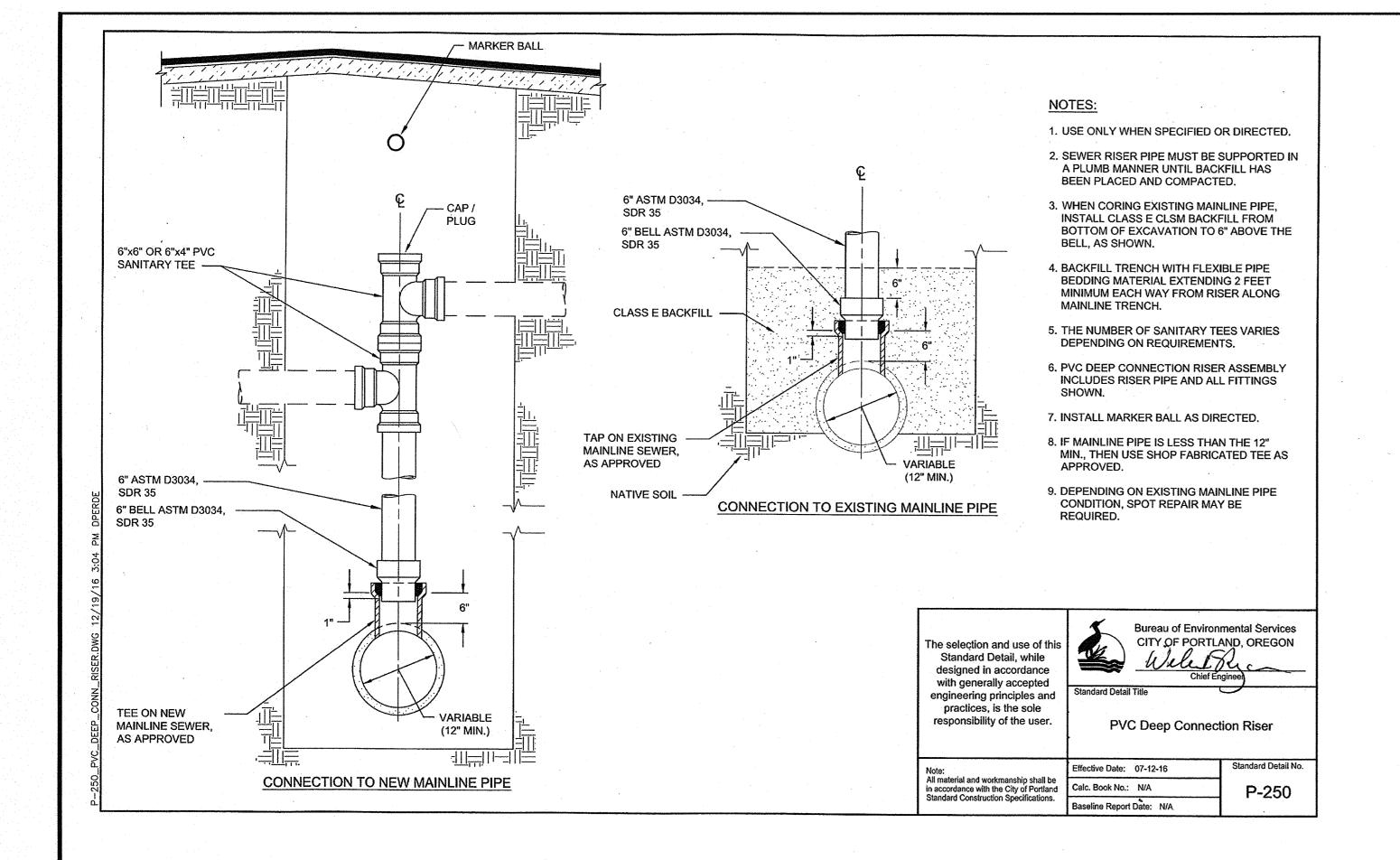
COMMISSIONER
CHIEF ENGINEER

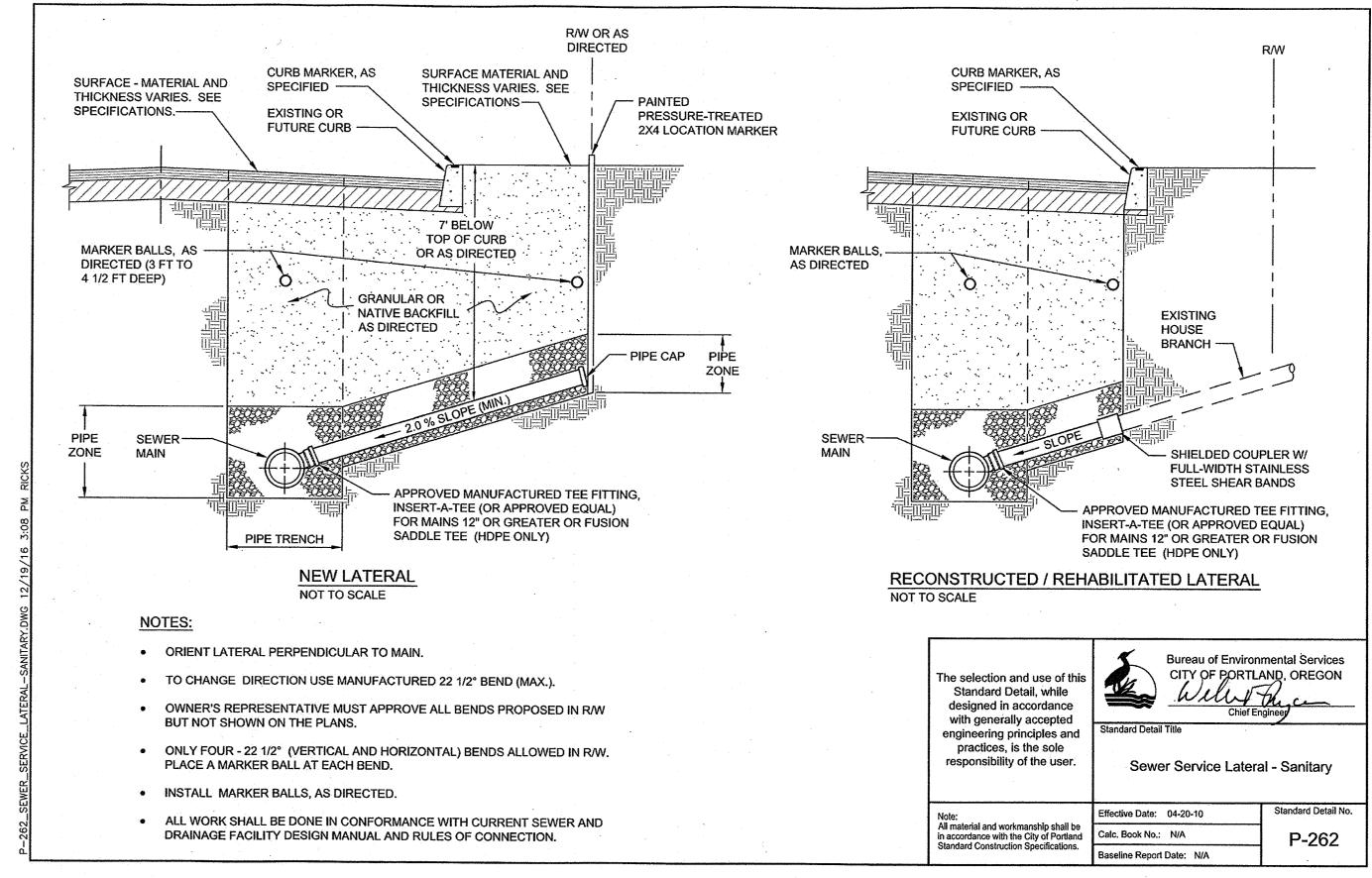


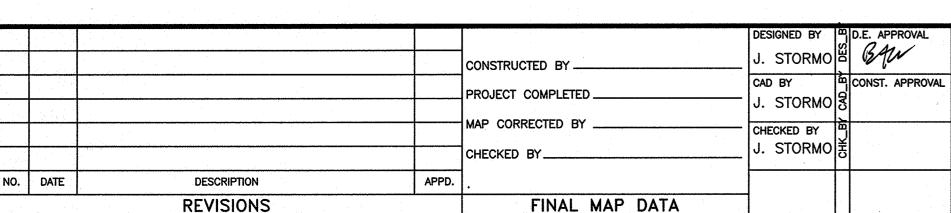
SE 134th AVE & SE FOSTER RD EP317
SANITARY SEWER EXTENSION

DETAILS

SHEET NO. 4 OF 5





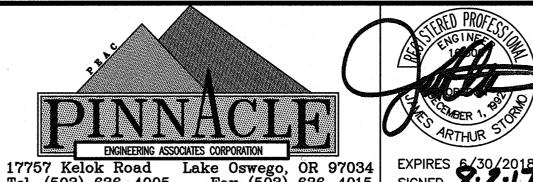




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NICK FISH

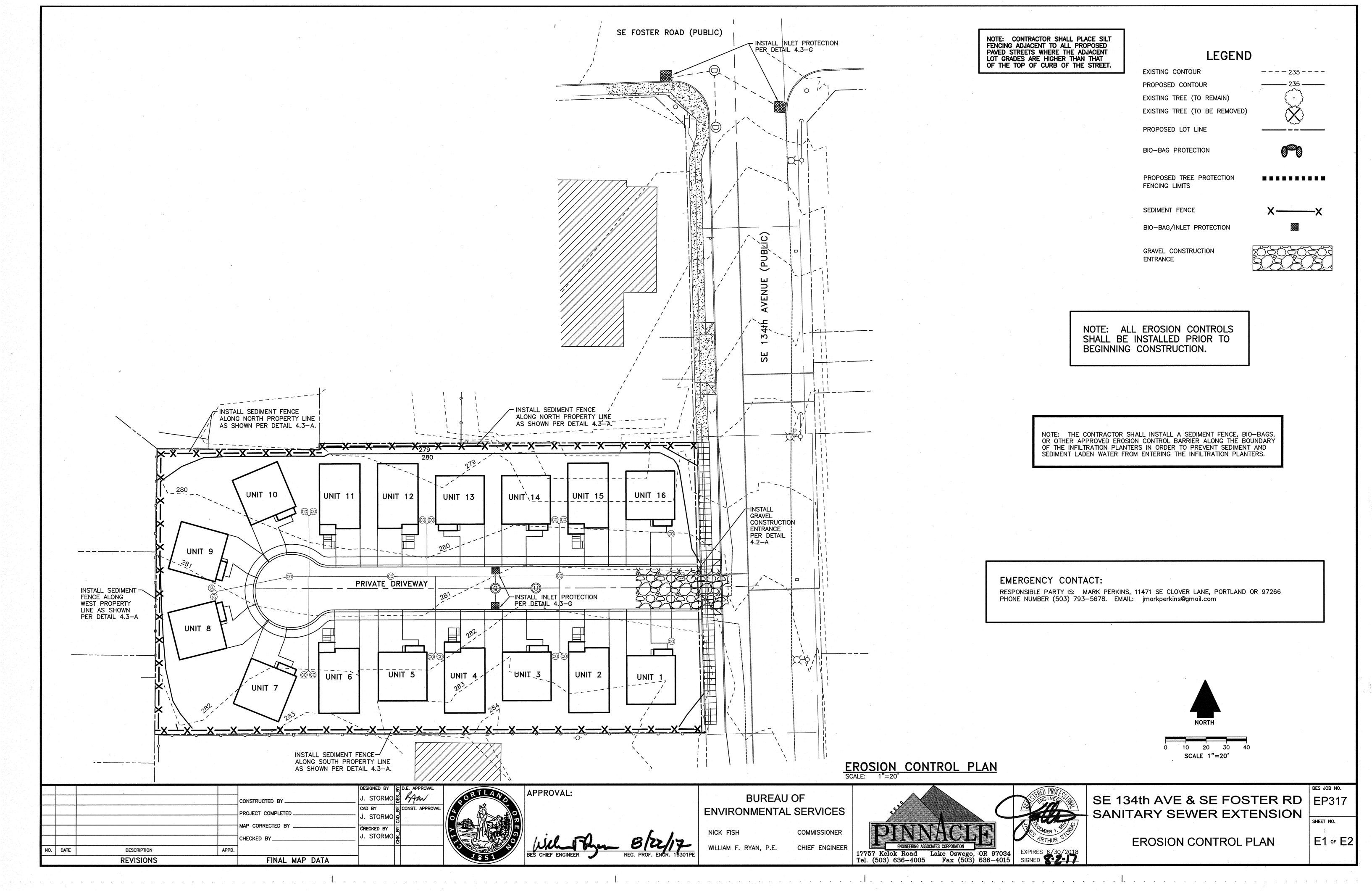
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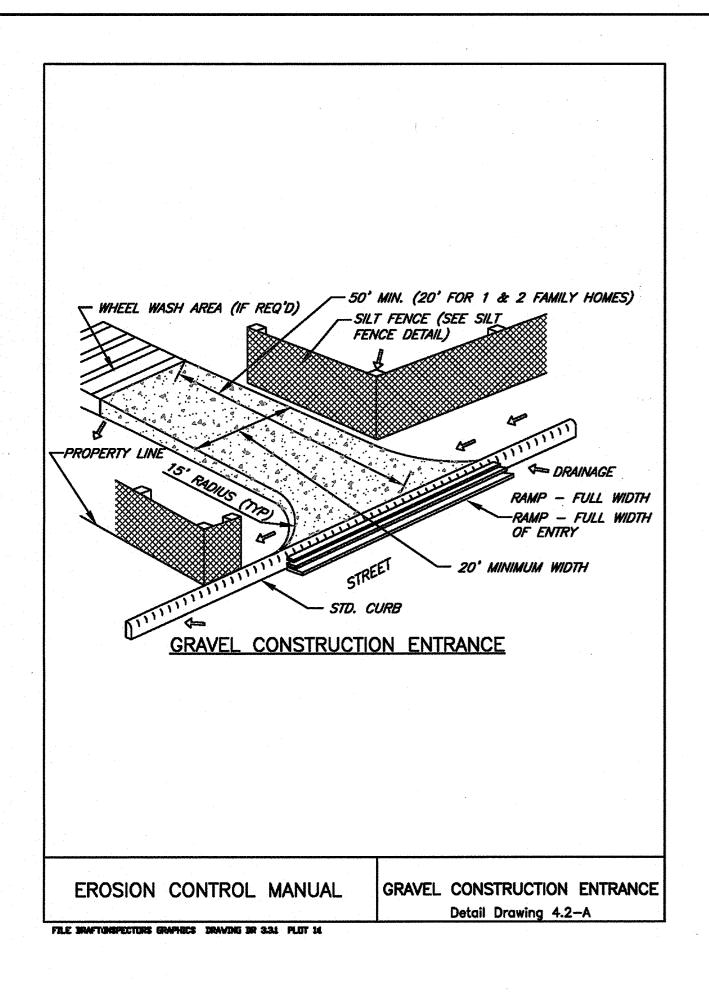


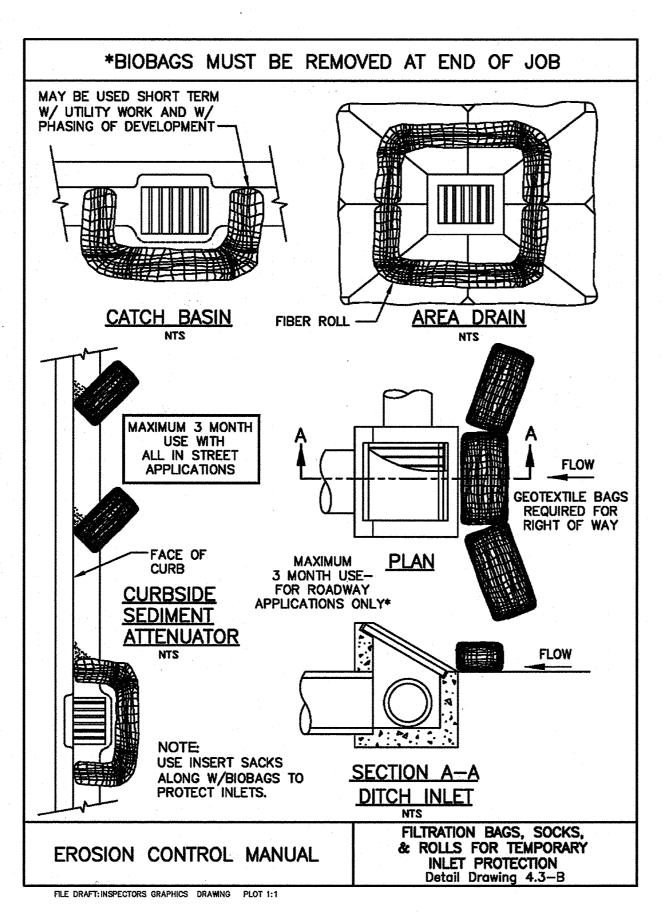
SE 134th AVE & SE FOSTER RD | EP317

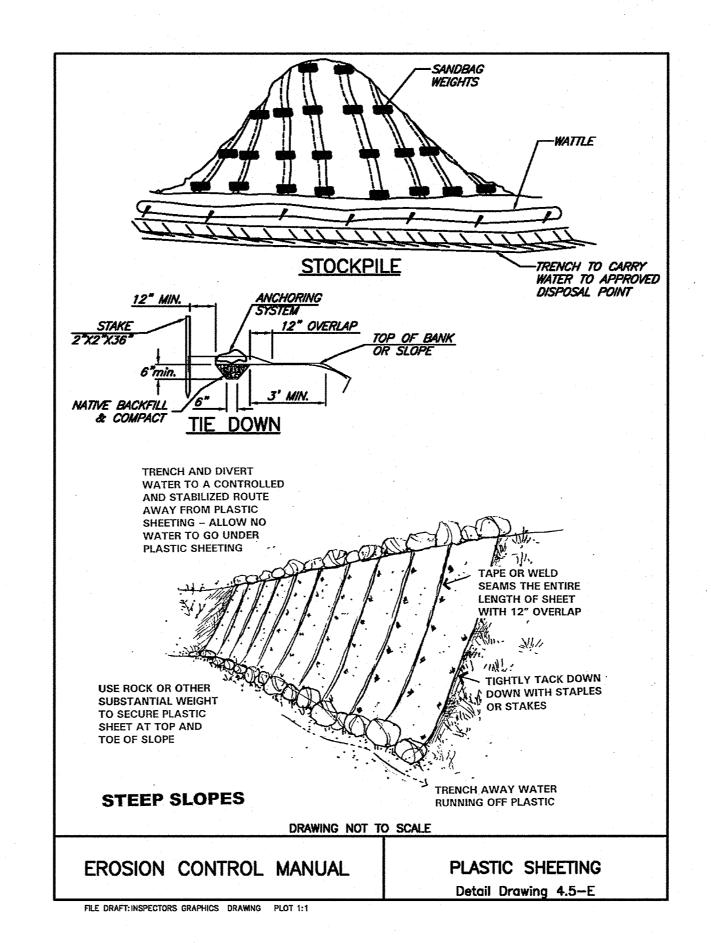
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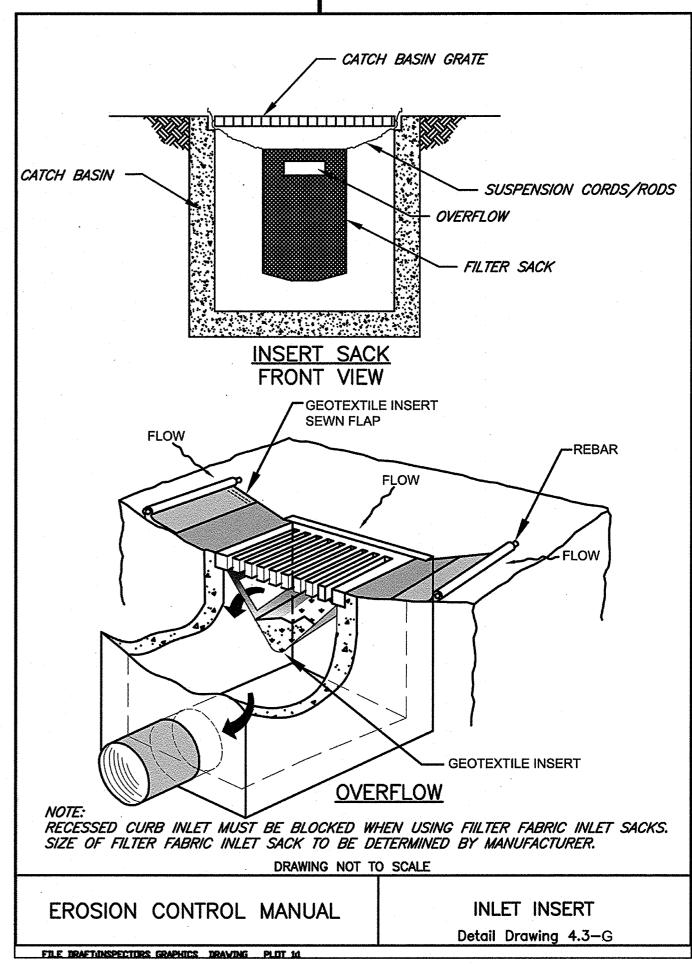
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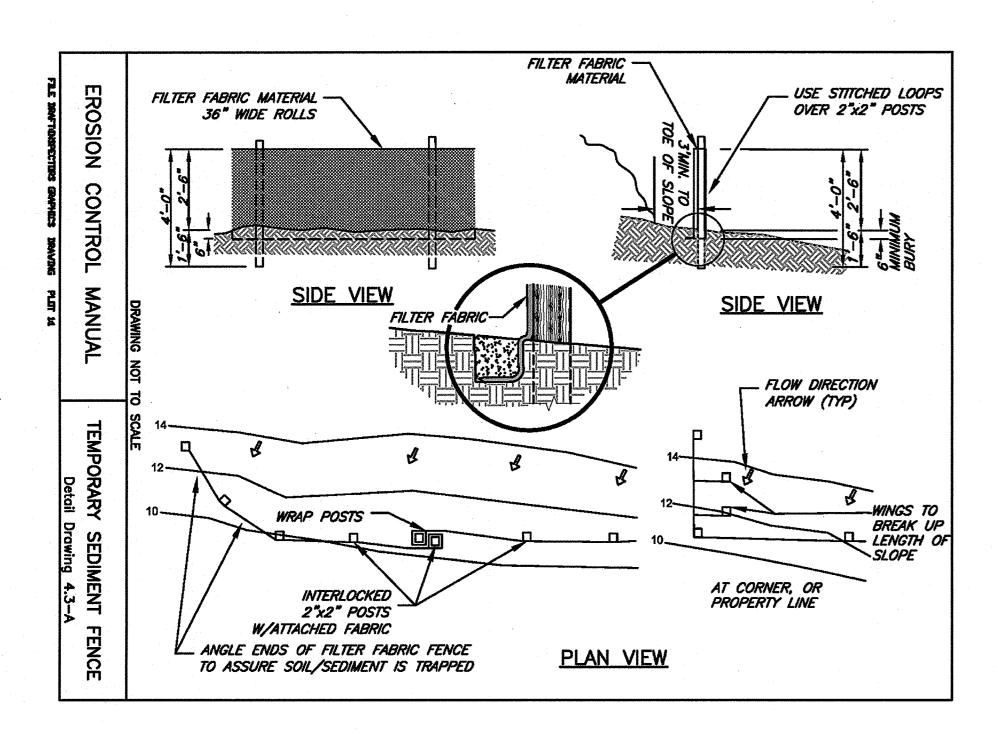












CONSTRUCTED BY

PROJECT COMPLETED

MAP CORRECTED BY

FINAL MAP DATA

CHECKED BY

APPD.

NO. DATE

DESCRIPTION

REVISIONS

EMERGENCY CONTACT:

PROVIDED AT THE PRE-CONSTRUCTION MEETING.

APPROVAL:

BAN

CONST. APPROVAL

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CHECKED BY

RESPONSIBLE PARTY IS: MARK PERKINS, 11471 SE CLOVER LANE, PORTLAND OR 97266 PHONE NUMBER (503) 793-5678. EMAIL: jmarkperkins@gmail.com

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 T 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

STANDARD NOTES FOR SEDIMENT FENCES:

- 1. 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.
- 2. 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".
- 3. THE FILTER FABRIC SHALL HAVE A MINIMUM VERTICAL BURIAL OF 6". ALL EXCAVATED MATERIAL FROM FILTER FABRIC FENCE 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.

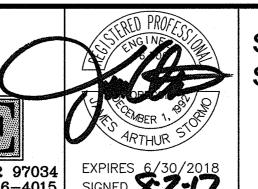
BUREAU OF ENVIRONMENTAL SERVICES

NICK FISH

WILLIAM F. RYAN, P.E.

COMMISSIONER

CHIEF ENGINEER Lake Oswego, OR 97034 Fax (503) 636-4015 Tel. (503) 636-4005



SE 134th AVE & SE FOSTER RD SANITARY SEWER EXTENSION

EROSION CONTROL DETAILS

EP317 SHEET NO.

E2 of E2