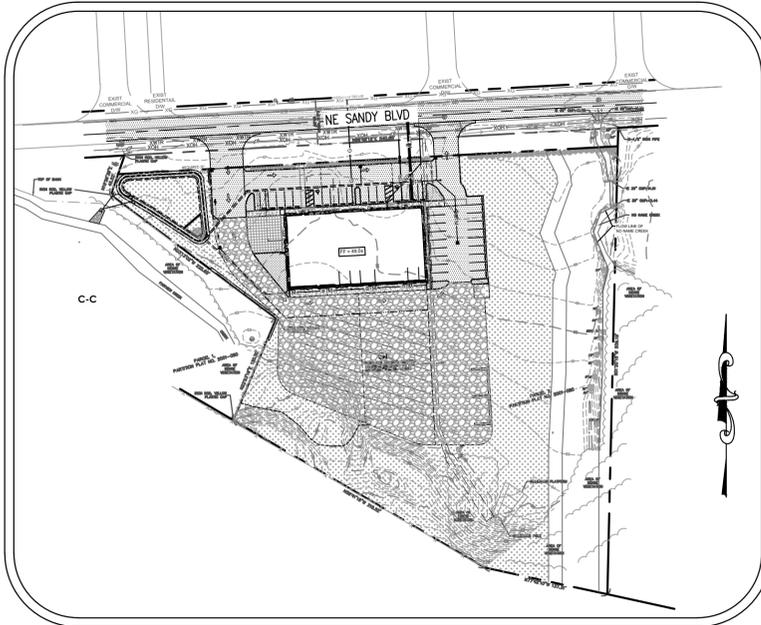
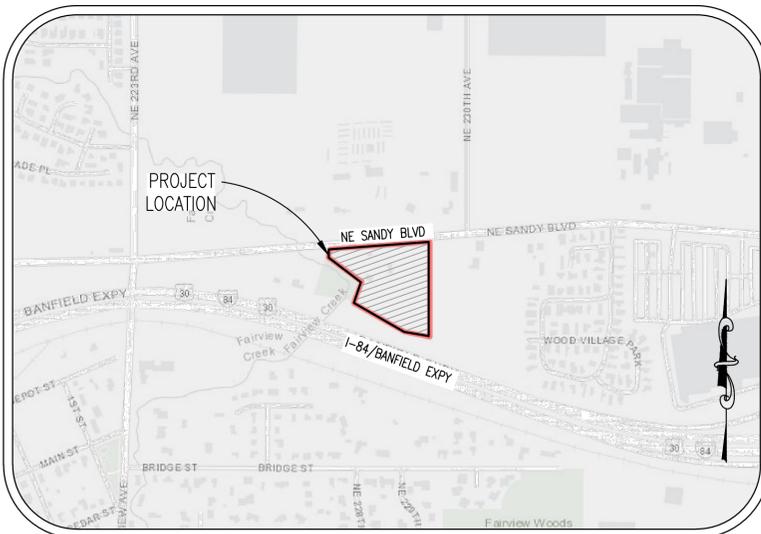


# SAMPLE EROSION AND SEDIMENT CONTROL PLAN (ESCP) DRAWINGS



**SITE MAP** 1"=100'-0"



**VICINITY MAP** NTS

**PROJECT LOCATION:**  
 XXXX NE SANDY BLVD  
 THE CITY OF FAIRVIEW, OREGON  
 LATITUDE = XXXX, LONGITUDE = XXXX

**PROPERTY DESCRIPTION:**  
 TAX LOT: XXXX (MULTNOMAH COUNTY TAX MAP (XXXXXX) LOCATED IN A PORTION OF THE SE 1/4 OF THE NW 1/4 OF SECTION 27, TOWNSHIP 1 NORTH, RANGE 3 EAST, WILLAMETTE MERIDIAN, MULTNOMAH COUNTY, OREGON.

**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 CENTER. YOU MUST NOTIFY THE CENTER AT LEAST TWO BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL 503-246-6699.

**OWNER** \_\_\_\_\_ **ARCHITECT** \_\_\_\_\_

**CIVIL ENGINEERS** \_\_\_\_\_ **SURVEYOR** \_\_\_\_\_

**NARRATIVE DESCRIPTIONS**

**EXISTING SITE CONDITIONS**  
 \* THE EXISTING SITE IS A SINGLE TAX LOT WITH TWO GRAVEL ACCESS DRIVEWAYS, THREE CONCRETE SLABS FROM PREVIOUS BUILDINGS, GRAVEL PARKING AREAS, AND NATIVE DENSE GRASS, BRUSH AND TREE AREAS. THERE ARE TREES ON THE EAST SIDE OF THE PROPERTY NEAR "NO NAME CREEK". "FAIRVIEW CREEK" IS JUST WEST OF THE PROPERTY. THE SITE SLOPES FROM THE SOUTH TO THE NORTHWEST WITH A STEEPLY SLOPING FILL SLOPE BANK BOUNDING THE SOUTH PROPERTY LINE WHICH ABUTS THE I-84 FREEWAY AND SLOPES MORE GRADUALLY FROM THE TOE OF THE EMBANKMENT TO SANDY BLVD. THE ONSITE PROPERTY IS APPROXIMATELY 172,433 SF IN SIZE AFTER THE NEW 20 FT SANDY BLVD RIGHT-OF-WAY DEDICATION. SANDY BLVD ROW INCLUDES AN ASPHALT ROADWAY AND ROADSIDE DITCHES AND GENERALLY SLOPES WEST.

**DEVELOPED CONDITIONS**  
 \* THE PROPOSED ONSITE DEVELOPMENT CONSISTS OF THE CONSTRUCTION OF 1 STEEL FRAME BUILDING, CONCRETE SIDEWALKS, A PAVED ASPHALT PARKING LOT, A GRAVEL PARKING FLEET AREA, A STORM WATER QUALITY AND DETENTION FACILITY AND LANDSCAPING AREAS.  
 \* NEW BUILDING, CONCRETE SIDEWALK, AC PAVEMENT = 24,503 SF  
 \* NEW GRAVEL PARKING AREA = 44,311 SF  
 \* NEW STORM BASIN AREA & NEW OR EXISTING TO REMAIN LANDSCAPING AND VEGETATION = 100,772 SF

\* THE PROPOSED OFFSITE DEVELOPMENT CONSISTS OF (2) NEW DRIVEWAYS CONNECTING THE SITE TO NE SANDY BLVD AND NEW OR EXISTING LANDSCAPING.  
 \* NEW AC PAVEMENT DRIVEWAYS = 3,433 SF  
 \* NEW OR EXISTING TO REMAIN LANDSCAPING AND VEGETATION = 13,629 SF

**NATURE OF CONSTRUCTION ACTIVITY AND ESTIMATED TIME TABLE**

- \* CLEARING (Oct - Dec 2018)
- \* MASS GRADING (Oct-Dec 2018)
- \* UTILITY INSTALLATION (Nov 2018 - April 2019)
- \* PAVING CONSTRUCTION (March 2019 - May 2019)
- \* FINAL STABILIZATION (March 2019 - Nov 2019)

**ESTIMATE OF TOTAL PERMITTED PROJECT AREA**

\* TOTAL ESTIMATED PERMITTED SITE AREA = 192,468 SF = 4.42 ACRES

**TOTAL DISTURBED AREA**

\* TOTAL PRIVATE ONSITE AREA = 111,021 SF = 2.55 ACRE  
 \* TOTAL PUBLIC OFFSITE AREA = 17,063 SF = 0.39 ACRE  
 TOT. = 2.94 ACRES

**SITE SOIL CLASSIFICATION:**

WOLLENT SILT LOAM, 0-3% SLOPES  
 HYDROLOGIC SOIL GROUP C/D  
 EROSION POTENTIAL IS LOW TO MODERATE

**RECEIVING WATER BODIES:**

FAIRVIEW CREEK AND NO NAME CREEK

**PERMITTEE'S SITE INSPECTOR:**

COMPANY/AGENCY: \_\_\_\_\_  
 PHONE: \_\_\_\_\_  
 FAX: \_\_\_\_\_  
 E-MAIL: \_\_\_\_\_  
 DESCRIPTION OF EXPERIENCE: \_\_\_\_\_

**INSPECTION FREQUENCY:**

SITE CONDITION	MINIMUM FREQUENCY
1. ACTIVE PERIOD	DAILY WHEN STORMWATER RUNOFF, INCLUDING RUNOFF FROM SNOW MELT, IS OCCURRING.  AT LEAST ONCE EVERY 14 DAYS, REGARDLESS OF WHETHER STORMWATER RUNOFF IS OCCURRING.
2. PRIOR TO THE SITE BECOMING INACTIVE OR IN ANTICIPATION OF SITE INACCESSIBILITY.	ONCE TO ENSURE THAT EROSION AND SEDIMENT CONTROL MEASURES ARE IN WORKING ORDER. ANY NECESSARY MAINTENANCE AND REPAIR MUST BE MADE PRIOR TO LEAVING THE SITE.
3. INACTIVE PERIODS GREATER THAN FOURTEEN (14) CONSECUTIVE CALENDAR DAYS.	ONCE EVERY MONTH.
4. PERIODS DURING WHICH THE SITE IS INACCESSIBLE DUE TO INCLEMENT WEATHER.	IF PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT AND ACCESSIBLE DISCHARGE POINT OR DOWNSTREAM LOCATION.
5. PERIODS DURING WHICH DISCHARGE IS UNLIKELY DUE TO FROZEN CONDITIONS.	MONTHLY. RESUME MONITORING IMMEDIATELY UPON MELT, OR WHEN WEATHER CONDITIONS MAKE DISCHARGES LIKELY.

CLIENT: \_\_\_\_\_ ENGINEER: \_\_\_\_\_

**STANDARD EROSION AND SEDIMENT CONTROL PLAN DRAWING NOTES:**

- HOLD A PRE-CONSTRUCTION MEETING OF PROJECT CONSTRUCTION PERSONNEL THAT INCLUDES THE INSPECTOR TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS. (SCHEDULE A.8.C.I.(3))
- ALL INSPECTIONS MUST BE MADE IN ACCORDANCE WITH DEQ 1200-C PERMIT REQUIREMENTS. (SCHEDULE A.12.B AND SCHEDULE B.1)
- INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200-C PERMIT REQUIREMENTS. (SCHEDULE B.1.C AND B.2)
- RETAIN A COPY OF THE ESCP AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEQ, AGENT, OR THE LOCAL MUNICIPALITY. DURING INACTIVE PERIODS OF GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS, THE ABOVE RECORDS MUST BE RETAINED BY THE PERMIT REGISTRANT BUT DO NOT NEED TO BE AT THE CONSTRUCTION SITE. (SCHEDULE B.2.C)
- ALL PERMIT REGISTRANTS MUST IMPLEMENT THE ESCP. FAILURE TO IMPLEMENT ANY OF THE CONTROL MEASURES OR PRACTICES DESCRIBED IN THE ESCP IS A VIOLATION OF THE PERMIT. (SCHEDULE A.8.A)
- THE ESCP MUST BE ACCURATE AND REFLECT SITE CONDITIONS. (SCHEDULE A.12.C.I)
- SUBMISSION OF ALL ESCP REVISIONS IS NOT REQUIRED. SUBMITTAL OF THE ESCP REVISIONS IS ONLY UNDER SPECIFIC CONDITIONS. SUBMIT ALL NECESSARY REVISION TO DEQ OR AGENT WITHIN 10 DAYS. (SCHEDULE A.12.C.IV AND V)
- PHASE CLEARING AND GRADING TO THE MAXIMUM EXTENT PRACTICAL TO PREVENT EXPOSED INACTIVE AREAS FROM BECOMING A SOURCE OF EROSION. (SCHEDULE A.7.A.II)
- IDENTIFY, MARK, AND PROTECT (BY CONSTRUCTION FENCING OR OTHER MEANS) CRITICAL RIPARIAN AREAS AND VEGETATION INCLUDING IMPORTANT TREES AND ASSOCIATED ROOTING ZONES, AND VEGETATION AREAS TO BE PRESERVED. IDENTIFY VEGETATIVE BUFFER ZONES BETWEEN THE SITE AND SENSITIVE AREAS (E.G., WETLANDS), AND OTHER AREAS TO BE PRESERVED, ESPECIALLY IN PERIMETER AREAS. (SCHEDULE A.8.C.I.(1) AND (2))
- PRESERVE EXISTING VEGETATION WHEN PRACTICAL AND RE-VEGETATE OPEN AREAS. RE-VEGETATE OPEN AREAS WHEN PRACTICABLE BEFORE AND AFTER GRADING OR CONSTRUCTION. IDENTIFY THE TYPE OF VEGETATIVE SEED MIX USED. (SCHEDULE A.7.A.V)
- MAINTAIN AND DELINEATE ANY EXISTING NATURAL BUFFER WITHIN THE 50-FOOT OF WATERS OF THE STATE. (SCHEDULE A.7.B.II AND (2)(A)(B))
- INSTALL PERIMETER SEDIMENT CONTROL, INCLUDING STORM DRAIN INLET PROTECTION AS WELL AS ALL SEDIMENT BASINS, TRAPS, AND BARRIERS PRIOR TO LAND DISTURBANCE. (SCHEDULE A.8.C.I.(5))
- CONTROL BOTH PEAK FLOW RATES AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS AND DOWNSTREAM CHANNELS AND STREAMBANKS. (SCHEDULE A.7.C)
- CONTROL SEDIMENT AS NEEDED ALONG THE SITE PERIMETER AND AT ALL OPERATIONAL INTERNAL STORM DRAIN INLETS AT ALL TIMES DURING CONSTRUCTION, BOTH INTERNALLY AND AT THE SITE BOUNDARY. (SCHEDULE A.7.D.I)
- ESTABLISH CONCRETE TRUCK AND OTHER CONCRETE EQUIPMENT WASHOUT AREAS BEFORE BEGINNING CONCRETE WORK. (SCHEDULE A.8.C.I.(6))
- APPLY TEMPORARY AND/OR PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS AS GRADING PROGRESSES. TEMPORARY OR PERMANENT STABILIZATION MEASURES ARE NOT REQUIRED FOR AREAS THAT ARE INTENDED TO BE LEFT UNVEGETATED, SUCH AS DIRT ACCESS ROADS OR UTILITY POLE PADS. (SCHEDULE A.8.C.II.(3))
- ESTABLISH MATERIAL AND WASTE STORAGE AREAS, AND OTHER NON-STORMWATER CONTROLS. (SCHEDULE A.8.C.I.(7))
- PREVENT TRACKING OF SEDIMENT ONTO PUBLIC OR PRIVATE ROADS USING BMPs SUCH AS: CONSTRUCTION ENTRANCE, GRAVELED (OR PAVED) EXITS AND PARKING AREAS, GRAVEL ALL UNPAVED ROADS LOCATED ONSITE, OR USE AN EXIT TIRE WASH. THESE BMPs MUST BE IN PLACE PRIOR TO LAND-DISTURBING ACTIVITIES. (SCHEDULE A.7.D.II AND A.8.C.I.(4))
- WHEN TRUCKING SATURATED SOILS FROM THE SITE, EITHER USE WATER-TIGHT TRUCKS OR DRAIN LOADS ON SITE. (SCHEDULE A.7.D.II.(5))
- CONTROL PROHIBITED DISCHARGES FROM LEAVING THE CONSTRUCTION SITE, I.E., CONCRETE WASH-OUT, WASTEWATER FROM CLEANOUT OF STUCCO, PAINT AND CURING COMPOUNDS. (SCHEDULE A.6)
- USE BMPs TO PREVENT OR MINIMIZE STORMWATER EXPOSURE TO POLLUTANTS FROM SPILLS, VEHICLE AND EQUIPMENT FUELING, MAINTENANCE, AND STORAGE; OTHER CLEANING AND MAINTENANCE ACTIVITIES; AND WASTE HANDLING ACTIVITIES. THESE POLLUTANTS INCLUDE FUEL, HYDRAULIC FLUID, AND OTHER OILS FROM VEHICLES AND MACHINERY, AS WELL AS DEBRIS, FERTILIZER, PESTICIDES AND HERBICIDES, PAINTS, SOLVENTS, CURING COMPOUNDS AND ADHESIVES FROM CONSTRUCTION OPERATIONS. (SCHEDULE A.7.E.I.(2))
- IMPLEMENT THE FOLLOWING BMPs WHEN APPLICABLE: WRITTEN SPILL PREVENTION AND RESPONSE PROCEDURES, EMPLOYEE TRAINING ON SPILL PREVENTION AND PROPER DISPOSAL PROCEDURES, SPILL KITS IN ALL VEHICLES, REGULAR MAINTENANCE SCHEDULE FOR VEHICLES AND MACHINERY, MATERIAL DELIVERY AND STORAGE CONTROLS, TRAINING AND SIGNAGE, AND COVERED STORAGE AREAS FOR WASTE AND SUPPLIES. (SCHEDULE A.7.E.II)
- USE WATER, SOIL-BINDING AGENT OR OTHER DUST CONTROL TECHNIQUE AS NEEDED TO AVOID WIND-BLOWN SOIL. (SCHEDULE A.7.A.VI)
- THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS TO MINIMIZE NUTRIENT RELEASES TO SURFACE WATERS. EXERCISE CAUTION WHEN USING TIME-RELEASE FERTILIZERS WITHIN ANY WATERWAY RIPARIAN ZONE. (SCHEDULE A.9.B.II)
- IF AN ACTIVE TREATMENT SYSTEM (FOR EXAMPLE, ELECTRO-COAGULATION, FLOCCULATION, FILTRATION, ETC.) FOR SEDIMENT OR OTHER POLLUTANT REMOVAL IS EMPLOYED, SUBMIT AN OPERATION AND MAINTENANCE PLAN (INCLUDING SYSTEM SCHEMATIC, LOCATION OF SYSTEM, LOCATION OF INLET, LOCATION OF DISCHARGE, DISCHARGE DISPERSION DEVICE DESIGN, AND A SAMPLING PLAN AND FREQUENCY) BEFORE OPERATING THE TREATMENT SYSTEM. OBTAIN PLAN APPROVAL BEFORE OPERATING THE TREATMENT SYSTEM. OPERATE AND MAINTAIN THE TREATMENT SYSTEM ACCORDING TO MANUFACTURER'S SPECIFICATIONS. (SCHEDULE A.9.D)
- TEMPORARILY STABILIZE SOILS AT THE END OF THE SHIFT BEFORE HOLIDAYS AND WEEKENDS, IF NEEDED. THE REGISTRANT IS RESPONSIBLE FOR ENSURING THAT SOILS ARE STABLE DURING RAIN EVENTS AT ALL TIMES OF THE YEAR. (SCHEDULE A.7.B)
- AS NEEDED BASED ON WEATHER CONDITIONS, AT THE END OF EACH WORKDAY SOIL STOCKPILES MUST BE STABILIZED OR COVERED, OR OTHER BMPs MUST BE IMPLEMENTED TO PREVENT DISCHARGES TO SURFACE WATERS OR CONVEYANCE SYSTEMS LEADING TO SURFACE WATERS. (SCHEDULE A.7.E.II.(2))
- CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVATION AND BARE GROUND ACTIVITIES DURING WET WEATHER. (SCHEDULE A.7.A.I)
- SEDIMENT FENCE: REMOVE TRAPPED SEDIMENT BEFORE IT REACHES ONE THIRD OF THE ABOVE GROUND FENCE HEIGHT AND BEFORE FENCE REMOVAL. (SCHEDULE A.9.C.I)
- OTHER SEDIMENT BARRIERS (SUCH AS BIOBAGS): REMOVE SEDIMENT BEFORE IT REACHES TWO INCHES DEPTH ABOVE GROUND HEIGHT AND BEFORE BMP REMOVAL. (SCHEDULE A.9.C.I)
- CATCH BASINS: CLEAN BEFORE RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT. SEDIMENT BASINS AND SEDIMENT TRAPS: REMOVE TRAPPED SEDIMENTS BEFORE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT AND AT COMPLETION OF PROJECT. (SCHEDULE A.9.C.II & IV)
- WITHIN 24 HOURS, SIGNIFICANT SEDIMENT THAT HAS LEFT THE CONSTRUCTION SITE, MUST BE REMEDIATED. INVESTIGATE THE CAUSE OF THE SEDIMENT RELEASE AND IMPLEMENT STEPS TO PREVENT A RECURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS. ANY IN-STREAM CLEAN-UP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO THE OREGON DIVISION OF STATE LANDS REQUIRED TIMEFRAME. (SCHEDULE A.9.B.I)
- THE INTENTIONAL WASHING OF SEDIMENT INTO STORM SEWERS OR DRAINAGE WAYS MUST NOT OCCUR. VACUUMING OR DRY SWEEPING AND MATERIAL PICKUP MUST BE USED TO CLEANUP RELEASED SEDIMENTS. (SCHEDULE A.9.B.II)
- THE ENTIRE SITE MUST BE TEMPORARILY STABILIZED USING VEGETATION OR A HEAVY MULCH LAYER, TEMPORARY SEEDING, OR OTHER METHOD SHOULD ALL CONSTRUCTION ACTIVITIES CEASE FOR 30 DAYS OR MORE. (SCHEDULE A.7.F.I)
- PROVIDE TEMPORARY STABILIZATION FOR THAT PORTION OF THE SITE WHERE CONSTRUCTION ACTIVITIES CEASE FOR 14 DAYS OR MORE WITH A COVERING OF BLOWN STRAW AND A TACKIFIER, LOOSE STRAW, OR AN ADEQUATE COVERING OF COMPOST MULCH UNTIL WORK RESUMES ON THAT PORTION OF THE SITE. (SCHEDULE A.7.F.II)
- DO NOT REMOVE TEMPORARY SEDIMENT CONTROL PRACTICES UNTIL PERMANENT VEGETATION OR OTHER COVER OF EXPOSED AREAS IS ESTABLISHED. ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED, ALL TEMPORARY EROSION CONTROLS AND RETAINED SOILS MUST BE REMOVED AND DISPOSED OF PROPERLY, UNLESS DOING SO CONFLICTS WITH LOCAL REQUIREMENTS. (SCHEDULE A.8.C.II.(1) AND D.3.C.II AND III)

Draft an ESCP sheet for each of these stages. More if necessary and depending on the size of the project.

Consider the soil type and topography when selecting BMPs. Erosion control methods are not one size fits all.

Don't forget to update DEQ if a new inspector is selected.

THE PERMITTEE IS REQUIRED TO MEET ALL THE CONDITIONS OF THE 1200-C PERMIT. THIS ESCP AND GENERAL CONDITIONS HAVE BEEN DEVELOPED TO FACILITATE COMPLIANCE WITH THE 1200-C PERMIT REQUIREMENTS. IN CASES OF DISCREPANCIES OR OMISSIONS, THE 1200-C PERMIT REQUIREMENTS SUPERCEDE REQUIREMENTS OF THIS PLAN.

**BMP MATRIX FOR CONSTRUCTION**

REFER TO DEQ GUIDANCE MANUAL FOR A COMPREHENSIVE LIST OF AVAILABLE BMP'S.

	CLEARING	MASS GRADING	UTILITY INSTALLATION	PAVING CONSTRUCTION	FINAL STABILIZATION	WET WEATHER (OCT. 1 - MAY 31ST)
<b>EROSION PREVENTION</b>						
PRESERVE NATURAL VEGETATION	X	X	X	X	X	X
GROUND COVER		X			X	X
<b>HYDRAULIC APPLICATIONS</b>						
PLASTIC SHEETING	X	X	X	X	X	X
STRAW MULCH COVER	X	X	X	X	X	X
ROCK COVER					X	X
DUST CONTROL	X	X	X	X	X	X
TEMPORARY/PERMANENT SEEDING		X			X	X
BUFFER ZONE	X	X	X	X	X	X
<b>OTHER:</b>						
<b>SEDIMENT CONTROL</b>						
SEDIMENT FENCE (INTERIOR)	**X	X	X	X	X	X
STRAW WATTLES					X	X
FILTER BERM					X	X
INLET PROTECTION	**X	X	X	X	X	X
DEWATERING					X	X
SEDIMENT TRAP					X	X
NATURAL BUFFER ENCROACHMENT	X	X	X	X	X	X
<b>OTHER:</b>						
<b>RUN OFF CONTROL</b>						
CONSTRUCTION ENTRANCE	**X	X	X	X	X	X
PIPE SLOPE DRAIN					X	X
OUTLET PROTECTION	X	X	X	X	X	X
SURFACE ROUGHENING		X			X	X
<b>OTHER:</b>						
<b>CHECK DAMS</b>						
<b>POLLUTION PREVENTION</b>						
PROPER SIGNAGE	X	X	X	X	X	X
HAZ WASTE MGMT	X	X	X	X	X	X
SPILL KIT ON-SITE	X	X	X	X	X	X
CONCRETE WASHOUT AREA			X	X	X	X
<b>OTHER:</b>						

\* SIGNIFIES ADDITIONAL BMP'S REQUIRED FOR WORK WITHIN 50' OF WATER OF THE STATE.  
 \*\* SIGNIFIES BMP THAT WILL BE INSTALLED PRIOR TO ANY GROUND DISTURBING ACTIVITY.

**RATIONALE STATEMENT**

A COMPREHENSIVE LIST OF AVAILABLE BEST MANAGEMENT PRACTICES (BMP) OPTIONS BASED ON DEQ'S GUIDANCE MANUAL HAS BEEN REVIEWED TO COMPLETE THIS EROSION AND SEDIMENT CONTROL PLAN. SOME OF THE ABOVE LISTED BMP'S WERE NOT CHOSEN BECAUSE THEY WERE DETERMINED TO NOT EFFECTIVELY MANAGE EROSION PREVENTION AND SEDIMENT CONTROL FOR THIS PROJECT BASED ON SPECIFIC SITE CONDITIONS, INCLUDING SOIL CONDITIONS TOPOGRAPHIC CONSTRAINTS, ACCESSIBILITY TO THE SITE, AND OTHER RELATED CONDITIONS, AS THE PROJECT PROGRESSES AND THERE IS A NEED TO REVISE THE ESC PLAN, AN ACTION PLAN WILL BE SUBMITTED.

XXX  
 INITIAL

**SHEET INDEX**

EROSION AND SEDIMENT CONTROL PLANS
ESC050 EROSION AND SEDIMENT CONTROL COVER SHEET
ESC051 CLEARING AND DEMOLITION EROSION AND SEDIMENT CONTROL PLAN
ESC052 MASS GRADING AND STABILIZATION CONSTRUCTION EROSION AND SEDIMENT CONTROL PLAN
ESC053 UTILITY CONSTRUCTION EROSION CONTROL PLAN
ESC054 FOUNDATION PLAN EROSION CONTROL PLAN
ESC055 EROSION AND SEDIMENT CONTROL DETAILS

**REVISIONS:**

10.23.2018	ESC PL CK
11.02.2018	ESC PL CK

**EROSION AND SEDIMENT CONTROL COVER SHEET**

CLIENT: \_\_\_\_\_ ENGINEER: \_\_\_\_\_

DESIGNED BY: \_\_\_\_\_ DRAWING NO.: ESC050  
 DRAWN BY: \_\_\_\_\_ SCALE: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_ DATE: SEPTEMBER 5, 2018

PREPARED FOR:

PROJECT NAME

**MULTNOMAH COUNTY OREGON**  
 TAX LOTS: XXX MULTNOMAH COUNTY TAX MAP XXX

Job Number: 18005  
 SHEET: ESC050

Engineer Stamp Here

# LEGEND

- EXISTING GROUND CONTOUR (1 FT)
- EXISTING GROUND CONTOUR (5 FT)
- PROPERTY LINE
- SEDIMENT FENCING
- CHAIN LINK CONSTRUCTION FENCE
- 50' BUFFER FROM OHWL
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- CONSTRUCTION ENTRANCE
- BIO-BAG
- EXISTING DRAINAGE FLOW DIRECTION

## PRE-CONSTRUCTION, CLEARING, AND DEMOLITION NOTES:

1. ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
2. SEDIMENT BARRIERS APPROVED FOR USE INCLUDE SEDIMENT FENCE, BERMS CONSTRUCTED OUT OF MULCH, CHIPPINGS, OR OTHER SUITABLE MATERIAL, STRAW WATTLES, OR OTHER APPROVED MATERIALS.
3. SENSITIVE RESOURCES INCLUDING, BUT NOT LIMITED TO, TREES, WETLANDS, AND RIPARIAN PROTECTION AREAS SHALL BE CLEARLY DELINEATED WITH ORANGE CONSTRUCTION FENCING OR CHAIN LINK FENCING IN A MANNER THAT IS CLEARLY VISIBLE TO ANYONE IN THE AREA. NO ACTIVITIES ARE PERMITTED TO OCCUR BEYOND THE CONSTRUCTION BARRIER.
4. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, STREET SWEEPING, AND VACUUMING, MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT. RUN-ON AND RUN-OFF CONTROLS SHALL BE IN PLACE AND FUNCTIONING PRIOR TO BEGINNING SUBSTANTIAL CONSTRUCTION ACTIVITIES. RUN-ON AND RUN-OFF CONTROL MEASURES INCLUDE: SLOPE DRAINS (WITH OUTLET PROTECTION), CHECK DAMS, SURFACE ROUGHENING, AND BANK STABILIZATION.
- 5.

Don't crowd the map! Provide the minimum amount of information necessary to communicate the erosion and sediment control needs for the specific stage of development. Also consider scale, don't try to fit a 10+ acre site on one sheet. Tile your drawings and make a key map. Review time is greatly reduced when the plan is easy to read and interpret.

The Natural Buffer is measured from the edge of the waterbody toward the upland.

When drafting your Erosion and Sediment Control Plan, consider the different stages of your project and the specific erosion and sediment control needs of each stage. Also consider your audience: make sure the construction crews can read and understand the plans.

Removing a lot of trees? Draft a sheet specifically for that. Cutting trees and removing root balls, especially on multiple acres, generates a large amount of disturbed and loose soil. Make sure to have a plan for proper management of that activity.

If less than 50' of the Natural Buffer is maintained, be sure to provide additional erosion controls and the rationale for choosing the selected BMP.

PRE-DEVELOPED STORM WATER RUN-OFF OF THE EXISTING AREA SHEET FLOWS NORTH WESTERLY TOWARDS NE SANDY BLVD TO A DITCH AND INTO FAIRVIEW CREEK.

### NOTES TO CONTRACTOR:

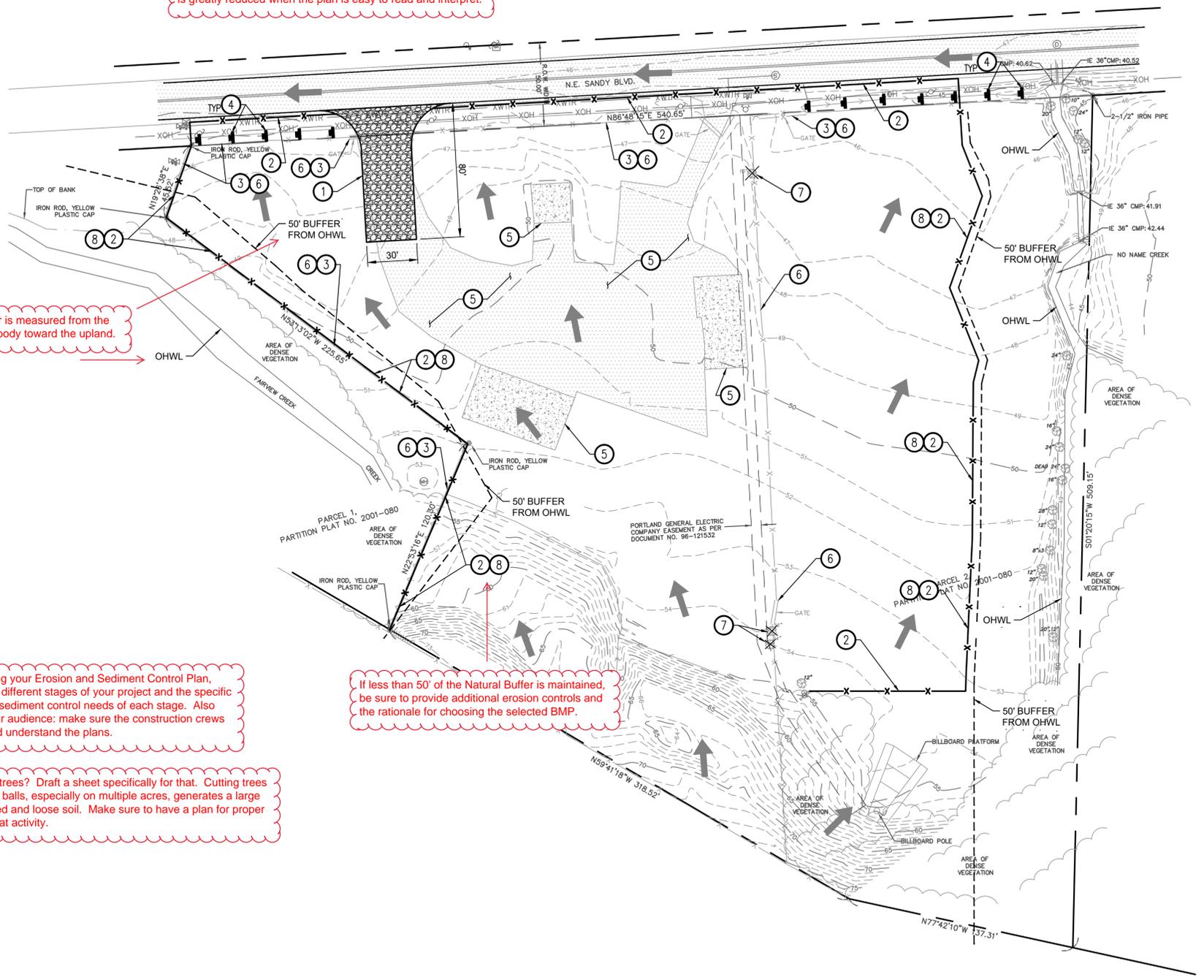
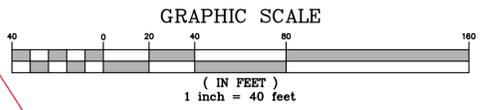
1. PROVIDE COMBINATION INLET PROTECTION AND BIO BAGS AT ALL DISCOVERED CATCH BASIN AND STORM DRAIN INLETS (TYP) PER DETAIL 1 AND 2 ON SHEET ESC053.
2. COORDINATE WITH OWNER TO PROTECT ANY DISCOVERED TREES TO REMAIN WITHIN THE CONSTRUCTION AREAS PER DETAIL 8 ON SHEET ESC055.
3. CONSTRUCTION DEWATERING MUST FOLLOW THE NOTES ON SHEETS ESC052, ESC053, ESC054.

A legend is always necessary. Any symbol you use needs to be defined here. You can use numbered or lettered keynotes for descriptions as well.

### PROJECT INFORMATION KEYNOTES

- 1 GRAVEL CONSTRUCTION ENTRANCE 30' WIDE X 80' LONG SIM TO DETAIL 3 ON SHEET ESC055.
- 2 SEDIMENT FENCE, SEE DETAIL 4 ON SHEET ESC055.
- 3 MAINTAIN EXISTING CHAIN LINK FENCE WITH GATE AROUND PERIMETER OF AREA OF CONSTRUCTION AND DISTURBANCE. SEDIMENT FENCE MAY FOLLOW CHAIN LINK FENCE WHERE APPLICABLE (TYP).
- 4 PROVIDE BIO-BAG CHECK DAMS IN EXISTING DITCH AND FLOW LINE AT 20' O.C. MIN. SEE DETAIL 2 ON SHEET ESC055.
- 5 EXISTING AC PAVEMENT/GRAVEL AND CONCRETE PADS TO BE REMOVED AND PROPERLY DISPOSED OF.
- 6 EXISTING FENCE AND GATE(S) TO BE REMOVED AND/OR RELOCATED UNDER BUILDING PERMIT.
- 7 EXISTING TREE TO BE REMOVED.
- 8 INSTALL COMPOST SOCK ALONG EAST AND WEST PROPERTY LINE INSIDE THE SEDIMENT FENCE TO PROTECT CREEK'S BUFFER ZONE.

The first sheet should communicate the existing conditions - how is stormwater flowing at the beginning of the project? What structures will be demolished? The beginning stages of the project may not involve grading, but have a level of ground disturbance and staging that have specific erosion and sediment control needs.



REVISIONS:
10.23.2018 ESC PL CK
11.02.2018 ESC PL CK

## CLEARING AND DEMOLITION EROSION AND SEDIMENT CONTROL PLAN

CLIENT: \_\_\_\_\_

ENGINEER: \_\_\_\_\_

DESIGNED BY: \_\_\_\_\_ DRAWING NO.: ESC051

DRAWN BY: \_\_\_\_\_ SCALE: 1" = 40'

CHECKED BY: \_\_\_\_\_ DATE: SEPTEMBER 5, 2018

PREPARED FOR: \_\_\_\_\_

MULTNOMAH COUNTY  
TAX LOTS: \_\_\_\_\_

OREGON  
MULTNOMAH COUNTY TAX MAP \_\_\_\_\_

JOB NUMBER  
18005

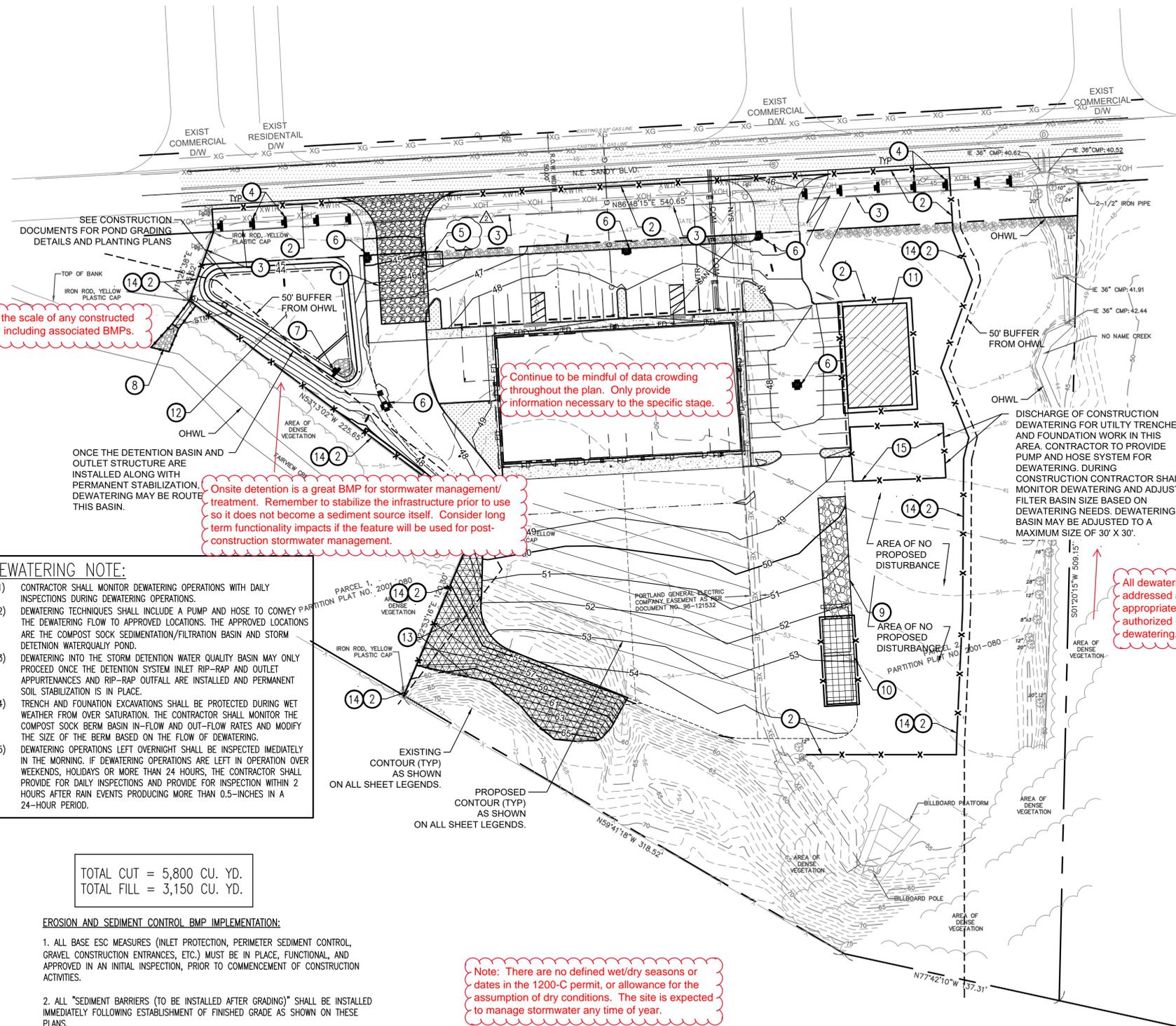
SHEET  
ESC051

# LEGEND

- EXISTING GROUND CONTOUR (1 FT)
- EXISTING GROUND CONTOUR (5 FT)
- NEW GROUND CONTOUR (1 FT)
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- PROPERTY LINE
- SILT FENCING
- CHAIN LINK CONSTRUCTION FENCE
- EXISTING TREE TO REMAIN
- CONSTRUCTION ENTRANCE
- BIO-BAG
- GRAVEL PARKING
- TEMPORARY SOIL STOCKPILE AREA
- CONCRETE WASHOUT
- TEMPORARY SOLID & HAZARDOUS WASTE STORAGE
- COCONUT OR JUTTE MATTING AREA

## GRADING, STREET AND UTILITY EROSION AND SEDIMENT CONSTRUCTION NOTES:

1. SEED USED FOR TEMPORARY OR PERMANENT SEEDING SHALL BE COMPOSED OF ONE OF THE FOLLOWING MIXTURES, UNLESS OTHERWISE AUTHORIZED:
  - A. VEGETATED CORRIDOR AREAS REQUIRE NATIVE SEED MIXES. SEE RESTORATION PLAN FOR APPROPRIATE SEED MIX.
  - B. DWARF GRASS MIX (MIN. 100 LB./AC.)
    1. DWARF PERENNIAL RYEGRASS (80% BY WEIGHT)
    2. CREEPING RED FESCUE (20% BY WEIGHT)
  - C. STANDARD HEIGHT GRASS MIX (MIN. 100LB./AC.)
    1. ANNUAL RYEGRASS (40% BY WEIGHT)
    2. TURF-TYPE FESCUE (60% BY WEIGHT)
2. SLOPE TO RECEIVE TEMPORARY OR PERMANENT SEEDING SHALL HAVE THE SURFACE ROUGHENED BY MEANS OF TRACK-WALKING OR THE USE OF OTHER APPROVED IMPLEMENTS. SURFACE ROUGHENING IMPROVES SEED BEDDING AND REDUCES RUN-OFF VELOCITY.
3. LONG TERM SLOPE STABILIZATION MEASURES SHALL INCLUDE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER VIA SEEDING WITH APPROVED MIX AND APPLICATION RATE.
4. TEMPORARY SLOPE STABILIZATION MEASURES SHALL INCLUDE: COVERING EXPOSED SOIL WITH PLASTIC SHEETING, STRAW MULCHING, WOOD CHIPS, OR OTHER APPROVED MEASURES.
5. STOCKPILED SOIL OR STRIPPINGS SHALL BE PLACED IN A STABLE LOCATION AND CONFIGURATION. STOCKPILES SHALL BE COVERED WITH PLASTIC SHEETING OR STRAW MULCH. SEDIMENT FENCE IS REQUIRED AROUND THE PERIMETER OF THE STOCKPILE.
6. EXPOSED CUT OR FILL AREAS SHALL BE STABILIZED THROUGH THE USE OF TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS OR MATS, MID-SLOPE SEDIMENT FENCES OR WATTLES, OR OTHER APPROPRIATE MEASURES. SLOPES EXCEEDING 25% MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES.
7. AREAS SUBJECT TO WIND EROSION SHALL USE APPROPRIATE DUST CONTROL MEASURES INCLUDING THE APPLICATION OF A FINE SPRAY OF WATER, PLASTIC SHEETING, STRAW MULCHING, OR OTHER APPROVED MEASURES.
8. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, TIRE WASHES, STREET SWEEPING, AND VACUUMING MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
9. ACTIVE INLETS TO STORM WATER SYSTEMS SHALL BE PROTECTED THROUGH THE USE OF APPROVED INLET PROTECTION MEASURES. ALL INLET PROTECTION MEASURES ARE TO BE REGULARLY INSPECTED AND MAINTAINED AS NEEDED.
10. SATURATED MATERIALS THAT ARE HAULED OFF-SITE MUST BE TRANSPORTED IN WATER-TIGHT TRUCKS TO ELIMINATE SPILLAGE OF SEDIMENT AND SEDIMENT-LADEN WATER.
11. AN AREA SHALL BE PROVIDED FOR THE WASHING OUT OF CONCRETE TRUCKS IN A LOCATION THAT DOES NOT PROVIDE RUN-OFF THAT CAN ENTER THE STORM WATER SYSTEM. IF THE CONCRETE WASH-OUT AREA CAN NOT BE CONSTRUCTED GREATER THAN 50' FROM ANY DISCHARGE POINT, SECONDARY MEASURES SUCH AS BERMS OR TEMPORARY SETTLING PITS MAY BE REQUIRED. THE WASH-OUT SHALL BE LOCATED WITHIN SIX FEET OF TRUCK ACCESS AND BE CLEANED WHEN IT REACHES 50% OF THE CAPACITY.
12. SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE SHALL NOT BE TRANSFERRED TO THE STORM WATER SYSTEM. SWEEPINGS SHALL BE PICKED UP AND DISPOSED IN THE TRASH.
13. AVOID PAVING IN WET WEATHER WHEN PAVING CHEMICALS CAN RUN-OFF INTO THE STORM WATER SYSTEM.
14. USE BMPs SUCH AS CHECK-DAMS, BERMS, AND INLET PROTECTION TO PREVENT RUN-OFF FROM REACHING DISCHARGE POINTS.
15. COVER CATCH BASINS, MANHOLES, AND OTHER DISCHARGE POINTS WHEN APPLYING SEAL COAT, TACK COAT, ETC. TO PREVENT INTRODUCING THESE MATERIALS TO THE STORM WATER SYSTEM.



### DEWATERING NOTE:

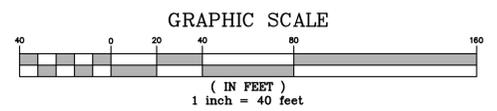
- 1) CONTRACTOR SHALL MONITOR DEWATERING OPERATIONS WITH DAILY INSPECTIONS DURING DEWATERING OPERATIONS.
- 2) DEWATERING TECHNIQUES SHALL INCLUDE A PUMP AND HOSE TO CONVEY THE DEWATERING FLOW TO APPROVED LOCATIONS. THE APPROVED LOCATIONS ARE THE COMPOST SOCK SEDIMENTATION/FILTRATION BASIN AND STORM DETENTION WATERQUALITY POND.
- 3) DEWATERING INTO THE STORM DETENTION WATER QUALITY BASIN MAY ONLY PROCEED ONCE THE DETENTION SYSTEM INLET RIP-RAP AND OUTLET APPURTENANCES AND RIP-RAP OUTFALL ARE INSTALLED AND PERMANENT SOIL STABILIZATION IS IN PLACE.
- 4) TRENCH AND FOUNDATION EXCAVATIONS SHALL BE PROTECTED DURING WET WEATHER FROM OVER SATURATION. THE CONTRACTOR SHALL MONITOR THE COMPOST SOCK BERM BASIN IN-FLOW AND OUT-FLOW RATES AND MODIFY THE SIZE OF THE BERM BASED ON THE FLOW OF DEWATERING.
- 5) DEWATERING OPERATIONS LEFT OVERNIGHT SHALL BE INSPECTED IMMEDIATELY IN THE MORNING. IF DEWATERING OPERATIONS ARE LEFT IN OPERATION OVER WEEKENDS, HOLIDAYS OR MORE THAN 24 HOURS, THE CONTRACTOR SHALL PROVIDE FOR DAILY INSPECTIONS AND PROVIDE FOR INSPECTION WITHIN 2 HOURS AFTER RAIN EVENTS PRODUCING MORE THAN 0.5-INCHES IN A 24-HOUR PERIOD.

TOTAL CUT = 5,800 CU. YD.  
TOTAL FILL = 3,150 CU. YD.

### EROSION AND SEDIMENT CONTROL BMP IMPLEMENTATION:

1. ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
2. ALL "SEDIMENT BARRIERS (TO BE INSTALLED AFTER GRADING)" SHALL BE INSTALLED IMMEDIATELY FOLLOWING ESTABLISHMENT OF FINISHED GRADE AS SHOWN ON THESE PLANS.
3. LONG TERM SLOPE STABILIZATION MEASURES "INCLUDING MATTING" SHALL BE IN PLACE OVER ALL EXPOSED SOILS AND IMMEDIATELY AFTER GRADING IS COMPLETE.
4. THE STORM WATER FACILITY SHALL BE CONSTRUCTED AND LANDSCAPED PRIOR TO THE STORM WATER SYSTEM FUNCTIONING AND SITE PAVING.
5. INLET PROTECTION SHALL BE IN-PLACE IMMEDIATELY FOLLOWING PAVING ACTIVITIES.

Note: There are no defined wet/dry seasons or dates in the 1200-C permit, or allowance for the assumption of dry conditions. The site is expected to manage stormwater any time of year.



POST-DEVELOPED STORM WATER RUN-OFF OF THE PROPOSED DEVELOPMENT AREA IS COLLECTED VIA CATCH BASINS AND ROOF DOWNSPOUTS. IT IS DIRECTED TO 18" DIA HDPE DETENTION PIPES, FLOWS THROUGH A STORM WATER QUALITY AND DETENTION BASIN, DIRECTED INTO A DETENTION CONTROL MANHOLE AND THEN DISCHARGES INTO FAIRVIEW CREEK.

### PROJECT INFORMATION KEYNOTES

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1) GRAVEL CONSTRUCTION ENTRANCE 30' WIDE X 80' LONG SIM TO DETAIL 3 ON SHEET ESC055.</li> <li>2) SEDIMENT FENCE, SEE DETAIL 4 ON SHEET ESC055.</li> <li>3) MAINTAIN EXISTING CHAIN LINK FENCE WITH GATE AROUND PERIMETER OF AREA OF CONSTRUCTION AND DISTURBANCE. SEDIMENT FENCE MAY FOLLOW CHAIN LINK FENCE WHERE APPLICABLE (TYP).</li> <li>4) PROVIDE BIO-BAG CHECK DAMS IN EXISTING DITCH AND FLOW LINE AT 20' O.C. MIN. SEE DETAIL 2 ON SHEET ESC053.</li> <li>5) SEE SHEET ESC054 FOR CONCRETE WASHOUT PIT.</li> <li>6) PROVIDE COMBINATION INLET PROTECTION AT ALL INLETS (TYP) PER DETAILS 1 AND 2 ON SHEET ESC055.</li> <li>7) PROVIDE RIP-RAP PROTECTION AND TEMPORARY BIO-BAGS SIM TO DETAIL 9 ON SHEET ESC055.</li> <li>8) PROVIDE RIP-RAP PROTECTION AT BASIN OUTFALL INTO FAIRVIEW CREEK. SEE DETAIL 9 ON SHEET ESC055. INSTALL COMPOST SOCK AROUND WORK AREA. COMPOST SOCK TO REMAIN IN PLACE AND DECOMPOSE NATURALLY OR UNTIL SOIL STABILIZATION IS MATURE.</li> <li>9) AREA FOR JOB TRAILERS, EQUIPMENT AND MATERIAL STAGING AND PORTABLE RESTROOMS. BASE ROCK SECTION SIMILAR TO ROAD PAVEMENT SECTION OF 1 1/2" - 0" COMPACTED CRUSHED ROCK.</li> </ol> | <ol style="list-style-type: none"> <li>10) AREA FOR SOLID AND HAZARDOUS WASTE, FUEL STORAGE AND REFUELING AND EQUIPMENT STORAGE AND MAINTENANCE. PROVIDE PERIMETER SEDIMENT FENCE PER DETAIL 4 ESC055.</li> <li>11) AREA FOR TEMPORARY SOIL STOCK PILE FROM EARTHWORK CUTTINGS TO BE REMOVED FROM THE SITE. COVER PER DETAIL 7 ON SHEET ESC055.</li> <li>12) PROVIDE AND MAINTAIN 2" THICK COVER LAYER OF COMPOST OVER FINAL GRADING LAYER OF DISTURBED SOIL AREA OF STORMWATER FACILITY AREA UNTIL PERMANENT GROUND COVER PLANTINGS ARE ESTABLISHED.</li> <li>13) AT EMBANKMENT CUT SLOPES, IMMEDIATELY FOLLOWING FINAL CUT SLOPE GRADING WORK, PROVIDE VEHICLE TRACKING AND INSTALL EROSION CONTROL COCONUT JUTTE MESH BLANKET. PLANT BY HYDROSEEDING OR HAND PLANT PER LANDSCAPE PLANS. THIS AREA OF CUT SHALL BE PERFORMED AND STABILIZED AS QUICKLY AS POSSIBLE. IF THIS AREA IS LEFT EXPOSED FOR MORE THAN 8 HOURS INSTALL PLASTIC SHEATHING SIM TO STOCK PILE DETAIL 7 ON SHEET ESC055.</li> <li>14) INSTALL COMPOST SOCK ALONG EAST AND WEST SEDIMENT FENCE INSIDE THE SEDIMENT FENCE TO PROTECT CREEK'S BUFFER ZONE. (TYP.)</li> <li>15) INSTALL 15' WIDE X 30' LONG COMPOST SOCK DEWATERING DISCHARGE BASIN TO PROTECT THE CREEK'S BUFFER ZONE FROM DEWATERING SEDIMENTATION.</li> </ol> |
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REVISIONS:
10.23.2018 ESC PL CK
11.02.2018 ESC PL CK

**MASS GRADING, AND  
STABILIZATION CONSTRUCTION  
EROSION/SED. CONTROL PLAN**

CLIENT:	ENGINEER:	DESIGNED BY:	DRAWING NO.:	ESC053	JOB NUMBER 18005
		DRAWN BY:	SCALE:	1" = 40'	
		CHECKED BY:	DATE:	SEPTEMBER 5, 2018	SHEET ESC052
PREPARED FOR:			<b>MULTNOMAH COUNTY</b> TAX LOTS:		
<b>OREGON</b> MULTNOMAH COUNTY TAX MAP					

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Features that will be present through multiple stages or throughout the duration of the project need to be reflected on each sheet. Examples include construction entrances, natural buffer areas, and dewatering.

If possible, determine the background turbidity of the receiving waterbody. Make sure that the discharges from your site are no more than 10% higher than that number.

- ### DEWATERING NOTE:
- 1) CONTRACTOR SHALL MONITOR DEWATERING OPERATIONS WITH DAILY INSPECTIONS DURING DEWATERING OPERATIONS.
  - 2) DEWATERING TECHNIQUES SHALL INCLUDE A PUMP AND HOSE TO CONVEY THE DEWATERING FLOW TO APPROVED LOCATIONS. THE APPROVED LOCATIONS ARE THE COMPOST SOCK SEDIMENTATION/FILTRATION BASIN AND STORM DETENTION WATERQUALITY POND.
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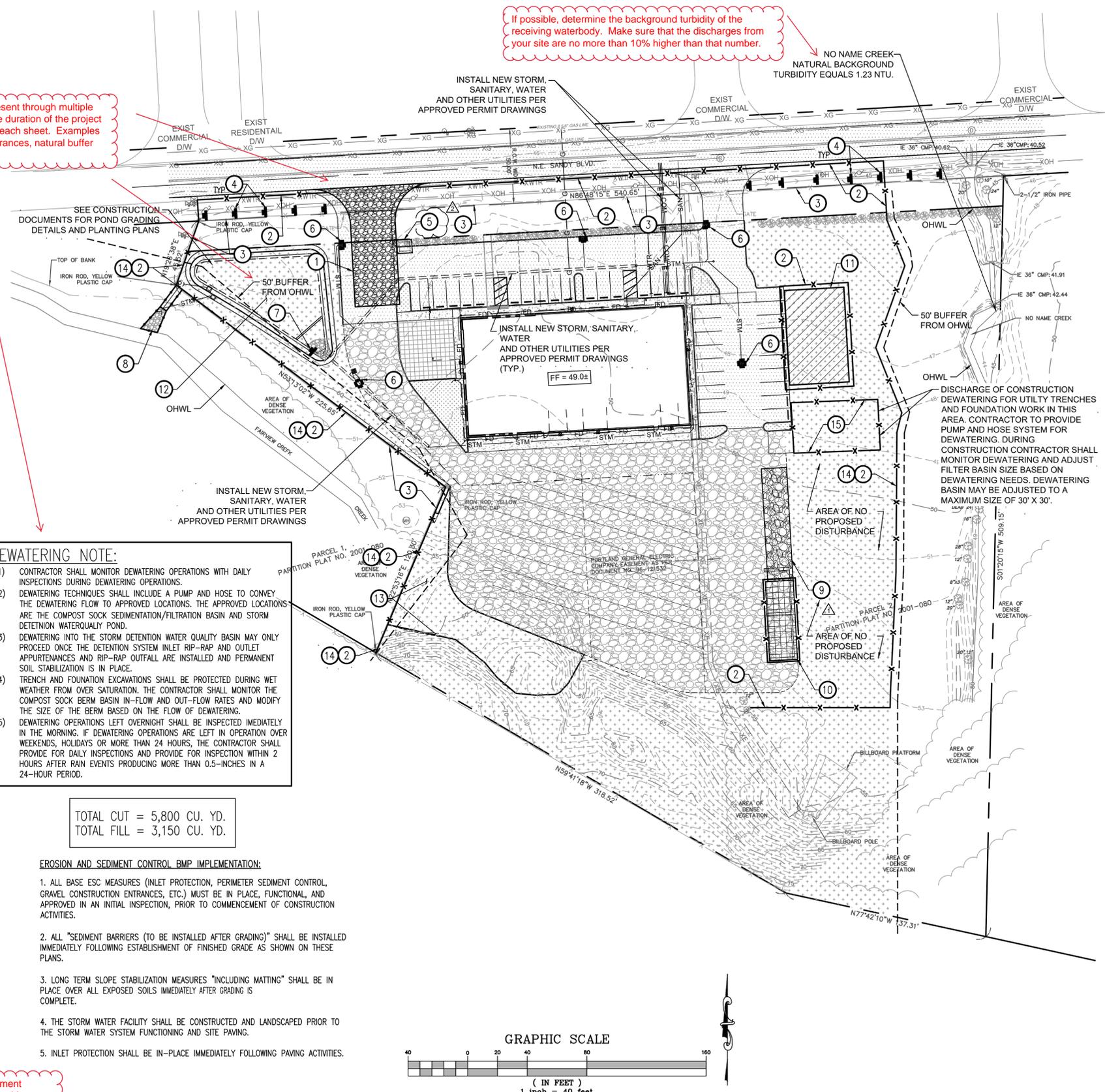
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|---|--|

Utility installation presents unique erosion and sediment control challenges. Developing a separate sheet for this stage of the project helps ensure compliance with the 1200-C.



### REVISIONS:

10.23.2018	ESC PL CK
11.02.2018	ESC PL CK

## UTILITY CONSTRUCTION EROSION/SED. CONTROL PLAN

ENGINEER:	DESIGNED BY:	DRAWING NO.:	ESC053
	DRAWN BY:	SCALE:	1" = 40'
	CHECKED BY:	DATE:	SEPTEMBER 5, 2018
PREPARED FOR:			

**MULTNOMAH COUNTY**  
TAX LOTS:

**OREGON**  
MULTNOMAH COUNTY TAX MAP

JOB NUMBER 18005
SHEET ESC053

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8. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, TIRE WASHES, STREET SWEEPING, AND VACUUMING MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
9. ACTIVE INLETS TO STORM WATER SYSTEMS SHALL BE PROTECTED THROUGH THE USE OF APPROVED INLET PROTECTION MEASURES. ALL INLET PROTECTION MEASURES ARE TO BE REGULARLY INSPECTED AND MAINTAINED AS NEEDED.
10. SATURATED MATERIALS THAT ARE HAULED OFF-SITE MUST BE TRANSPORTED IN WATER-TIGHT TRUCKS TO ELIMINATE SPILLAGE OF SEDIMENT AND SEDIMENT-LADEN WATER.
11. AN AREA SHALL BE PROVIDED FOR THE WASHING OUT OF CONCRETE TRUCKS IN A LOCATION THAT DOES NOT PROVIDE RUN-OFF THAT CAN ENTER THE STORM WATER SYSTEM. IF THE CONCRETE WASH-OUT AREA CAN NOT BE CONSTRUCTED GREATER THAN 50' FROM ANY DISCHARGE POINT, SECONDARY MEASURES SUCH AS BERMS OR TEMPORARY SETTLING PITS MAY BE REQUIRED. THE WASH-OUT SHALL BE LOCATED WITHIN SIX FEET OF TRUCK ACCESS AND BE CLEANED WHEN IT REACHES 50% OF THE CAPACITY.
12. SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE SHALL NOT BE TRANSFERRED TO THE STORM WATER SYSTEM. SWEEPINGS SHALL BE PICKED UP AND DISPOSED IN THE TRASH.
13. AVOID PAVING IN WET WEATHER WHEN PAVING CHEMICALS CAN RUN-OFF INTO THE STORM WATER SYSTEM.
14. USE BMPs SUCH AS CHECK-DAMS, BERMS, AND INLET PROTECTION TO PREVENT RUN-OFF FROM REACHING DISCHARGE POINTS.
15. COVER CATCH BASINS, MANHOLES, AND OTHER DISCHARGE POINTS WHEN APPLYING SEAL COAT, TACK COAT, ETC. TO PREVENT INTRODUCING THESE MATERIALS TO THE STORM WATER SYSTEM.

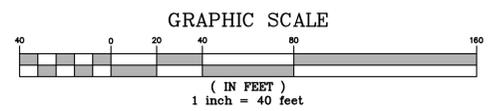
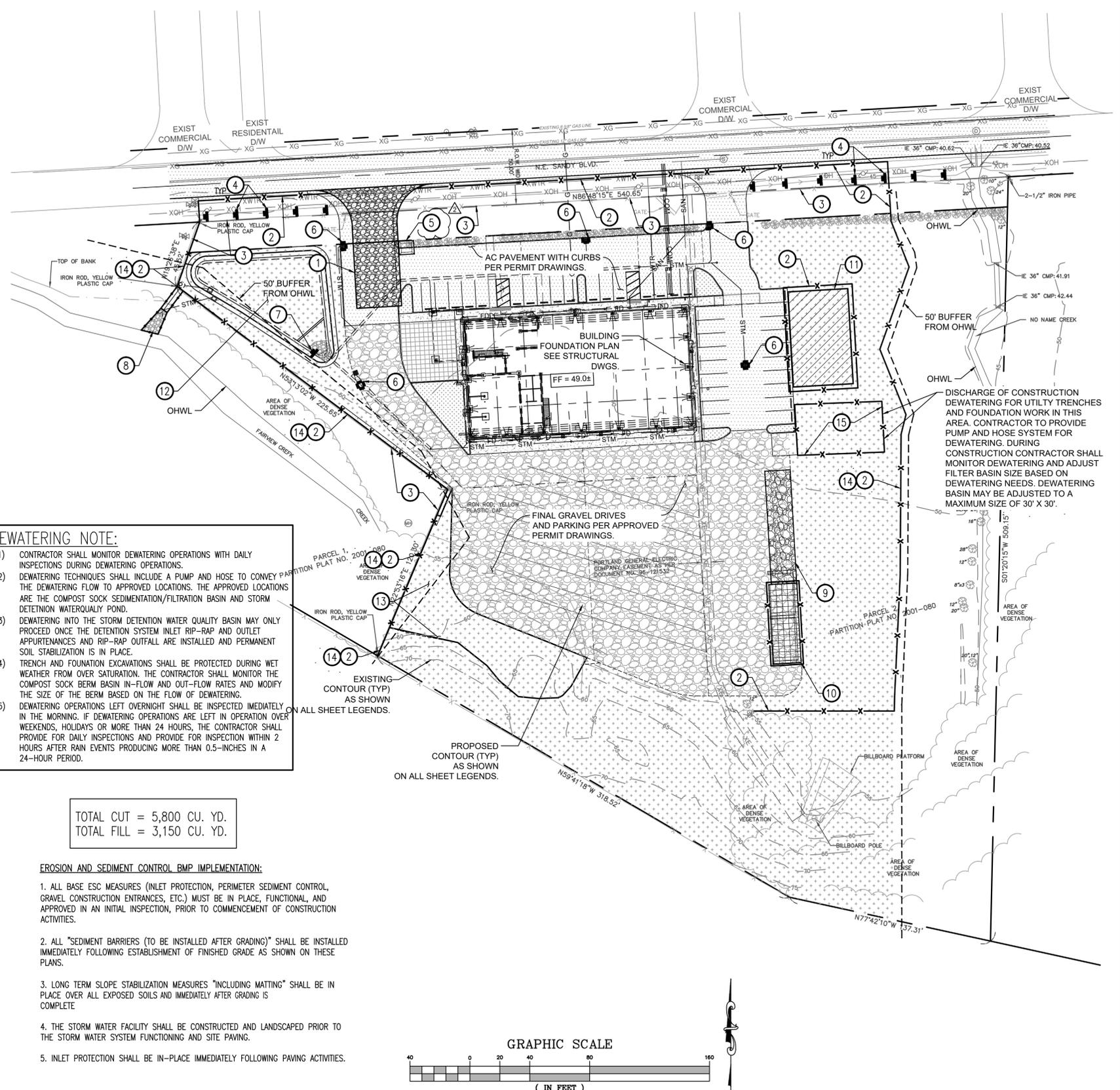
## DEWATERING NOTE:

- 1) CONTRACTOR SHALL MONITOR DEWATERING OPERATIONS WITH DAILY INSPECTIONS DURING DEWATERING OPERATIONS.
- 2) DEWATERING TECHNIQUES SHALL INCLUDE A PUMP AND HOSE TO CONVEY PUMPED WATER TO APPROVED LOCATIONS. THE APPROVED LOCATIONS ARE THE COMPOST SOCK SEDIMENTATION/FILTRATION BASIN AND STORM DETENTION WATERQUALITY POND.
- 3) DEWATERING INTO THE STORM DETENTION WATER QUALITY BASIN MAY ONLY PROCEED ONCE THE DETENTION SYSTEM INLET RIP-RAP AND OUTLET APPURTENANCES AND RIP-RAP OUTFALL ARE INSTALLED AND PERMANENT SOIL STABILIZATION IS IN PLACE.
- 4) TRENCH AND FOUNDATION EXCAVATIONS SHALL BE PROTECTED DURING WET WEATHER FROM OVER SATURATION. THE CONTRACTOR SHALL MONITOR THE COMPOST SOCK BERM BASIN IN-FLOW AND OUT-FLOW RATES AND MODIFY THE SIZE OF THE BERM BASED ON THE FLOW OF DEWATERING.
- 5) DEWATERING OPERATIONS LEFT OVERNIGHT SHALL BE INSPECTED IMMEDIATELY IN THE MORNING. IF DEWATERING OPERATIONS ARE LEFT IN OPERATION OVER WEEKENDS, HOLIDAYS OR MORE THAN 24 HOURS, THE CONTRACTOR SHALL PROVIDE FOR DAILY INSPECTIONS AND PROVIDE FOR INSPECTION WITHIN 2 HOURS AFTER RAIN EVENTS PRODUCING MORE THAN 0.5-INCHES IN A 24-HOUR PERIOD.

TOTAL CUT = 5,800 CU. YD.  
TOTAL FILL = 3,150 CU. YD.

## EROSION AND SEDIMENT CONTROL BMP IMPLEMENTATION:

1. ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
2. ALL "SEDIMENT BARRIERS (TO BE INSTALLED AFTER GRADING)" SHALL BE INSTALLED IMMEDIATELY FOLLOWING ESTABLISHMENT OF FINISHED GRADE AS SHOWN ON THESE PLANS.
3. LONG TERM SLOPE STABILIZATION MEASURES "INCLUDING MATTING" SHALL BE IN PLACE OVER ALL EXPOSED SOILS AND IMMEDIATELY AFTER GRADING IS COMPLETE.
4. THE STORM WATER FACILITY SHALL BE CONSTRUCTED AND LANDSCAPED PRIOR TO THE STORM WATER SYSTEM FUNCTIONING AND SITE PAVING.
5. INLET PROTECTION SHALL BE IN-PLACE IMMEDIATELY FOLLOWING PAVING ACTIVITIES.



POST-DEVELOPED STORM WATER RUN-OFF OF THE PROPOSED DEVELOPMENT AREA IS COLLECTED VIA CATCH BASINS AND ROOF DOWNSPOUTS. IT IS DIRECTED TO 18" DIA HDPE DETENTION PIPES, FLOWS THROUGH A STORM WATER QUALITY AND DETENTION BASIN, DIRECTED INTO A DETENTION CONTROL MANHOLE AND THEN DISCHARGES INTO FAIRVIEW CREEK.

## PROJECT INFORMATION KEYNOTES

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1) GRAVEL CONSTRUCTION ENTRANCE 30' WIDE X 80' LONG SIM TO DETAIL 3 ON SHEET ESC055.</li> <li>2) SEDIMENT FENCE, SEE DETAIL 4 ON SHEET ESC055.</li> <li>3) MAINTAIN EXISTING CHAIN LINK FENCE WITH GATE AROUND PERIMETER OF AREA OF CONSTRUCTION AND DISTURBANCE. SEDIMENT FENCE MAY FOLLOW CHAIN LINK FENCE WHERE APPLICABLE (TYP).</li> <li>4) PROVIDE BIO-BAG CHECK DAMS IN EXISTING DITCH AND FLOW LINE AT 20' O.C. MIN. SEE DETAIL 2 ON SHEET ESC053.</li> <li>5) SEE SHEET ESC054 FOR CONCRETE WASHOUT PIT.</li> <li>6) PROVIDE COMBINATION INLET PROTECTION AT ALL INLETS (TYP) PER DETAILS 1 AND 2 ON SHEET ESC055.</li> <li>7) PROVIDE RIP-RAP PROTECTION AND TEMPORARY BIO-BAGS SIM TO DETAIL 9 ON SHEET ESC055.</li> <li>8) PROVIDE RIP-RAP PROTECTION AT BASIN OUTFALL INTO FAIRVIEW CREEK. SEE DETAIL 9 ON SHEET ESC055. INSTALL COMPOST SOCK AROUND WORK AREA. COMPOST SOCK TO REMAIN IN PLACE AND DECOMPOSE NATURALLY OR UNTIL SOIL STABILIZATION IS MATURE.</li> <li>9) AREA FOR JOB TRAILERS, EQUIPMENT AND MATERIAL STAGING AND PORTABLE RESTROOMS. BASE ROCK SECTION SIMILAR TO ROAD PAVEMENT SECTION OF 1 1/2" - 0" COMPACTED CRUSHED ROCK.</li> </ol> | <ol style="list-style-type: none"> <li>10) AREA FOR SOLID AND HAZARDOUS WASTE, FUEL STORAGE AND REFUELING AND EQUIPMENT STORAGE AND MAINTENANCE. PROVIDE PERIMETER SEDIMENT FENCE PER DETAIL 4 ESC055.</li> <li>11) AREA FOR TEMPORARY SOIL STOCK PILE FROM EARTHWORK CUTTINGS TO BE REMOVED FROM THE SITE. COVER PER DETAIL 7 ON SHEET ESC055.</li> <li>12) PROVIDE AND MAINTAIN 2" THICK COVER LAYER OF COMPOST OVER FINAL GRADING LAYER OF DISTURBED SOIL AREA OF STORMWATER FACILITY AREA UNTIL PERMANENT GROUND COVER PLANTINGS ARE ESTABLISHED.</li> <li>13) AT EMBANKMENT CUT SLOPES, IMMEDIATELY FOLLOWING FINAL CUT SLOPE GRADING WORK, PROVIDE VEHICLE TRACKING AND INSTALL EROSION CONTROL COCONUT JUTTE MESH BLANKET. PLANT BY HYDROSEEDING OR HAND PLANT PER LANDSCAPE PLANS. THIS AREA OF CUT SHALL BE PERFORMED AND STABILIZED AS QUICKLY AS POSSIBLE. IF THIS AREA IS LEFT EXPOSED FOR MORE THAN 8 HOURS INSTALL PLASTIC SHEATHING SIM TO STOCK PILE DETAIL 7 ON SHEET ESC055.</li> <li>14) INSTALL COMPOST SOCK ALONG EAST AND WEST SEDIMENT FENCE INSIDE THE SEDIMENT FENCE TO PROTECT CREEK'S BUFFER ZONE. (TYP.)</li> <li>15) INSTALL 15' WIDE X 30' LONG COMPOST SOCK DEWATERING DISCHARGE BASIN TO PROTECT THE CREEK'S BUFFER ZONE FROM DEWATERING SEDIMENTATION.</li> </ol> |
|---|--|

REVISIONS:
▲ 10.23.2018 ESC PL CK
▲ 11.02.2018 ESC PL CK

**FOUNDATION PLAN**  
**EROSION/SED. CONTROL PLAN**

CLIENT: \_\_\_\_\_

ENGINEER: \_\_\_\_\_

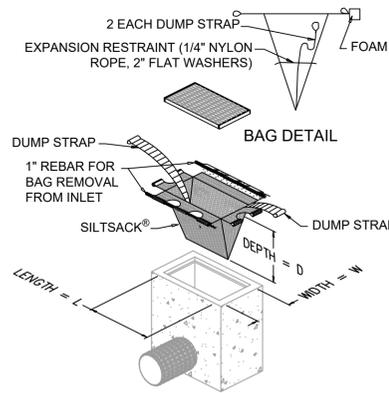
DESIGNED BY:	DRAWING NO.:	ESC053
DRAWN BY:	SCALE:	1" = 40'
CHECKED BY:	DATE:	SEPTEMBER 5, 2018
PREPARED FOR:		

**MULTNOMAH COUNTY**  
TAX LOTS:

**OREGON**  
MULTNOMAH COUNTY TAX MAP

JOB NUMBER  
18005

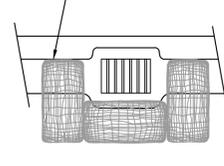
SHEET  
ESC054



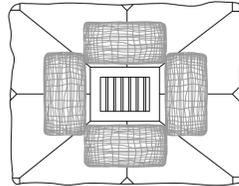
Regular Flow Only  
Do not use High Flow Insert Bags.

**1**  
**055** FILTER BAG INLET  
N.T.S.

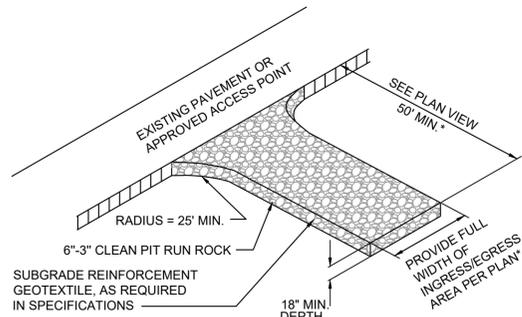
MAY BE USED SHORT TERM  
W/ UTILITY WORK AND W/  
PHASING OF DEVELOPMENT



**CATCH BASIN**  
N.T.S.

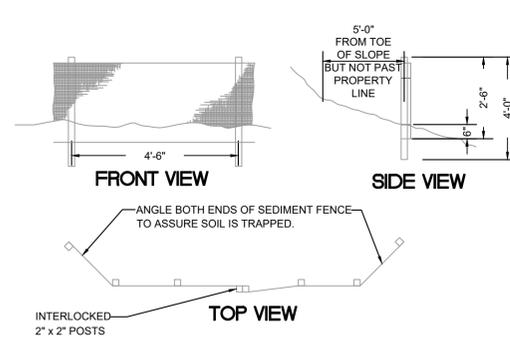


**AREA DRAIN**  
N.T.S.



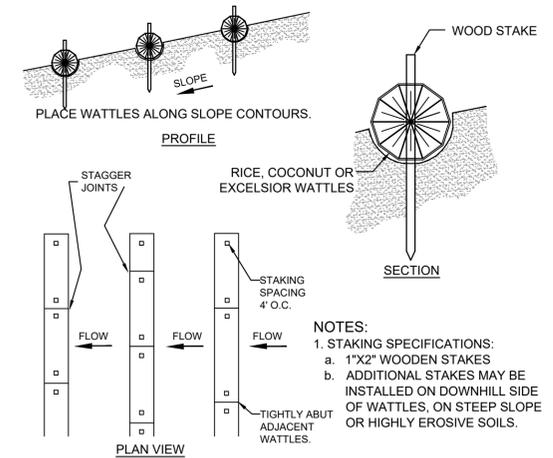
\*20\"/>

**3**  
**055** GRAVEL CONSTRUCTION ENTRANCE (SEE EROSION CONTROL NOTES)  
N.T.S.



NOTES:  
1. BURY BOTTOM OF FILTER FABRIC 6\"/>

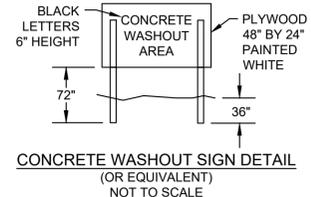
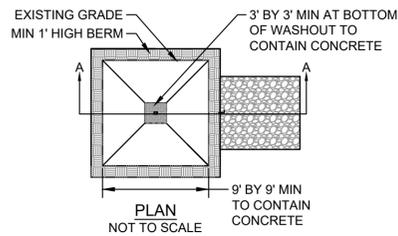
**4**  
**055** SEDIMENT FENCE  
N.T.S.



NOTES:  
1. STAKING SPECIFICATIONS:  
a. 1\"/>

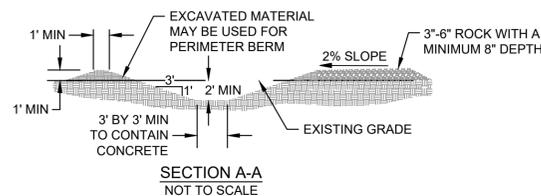
**5**  
**055** SEDIMENT CONTROL WATTLES  
N.T.S.

EROSION/StrawBaleBarrier.dwg



NOTES:

1. WASHOUT FACILITIES SHALL BE MAINTAINED TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM FREEBOARD OF 12 INCHES.
2. WASHOUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL.
3. IF THE WASHOUT IS NEARING CAPACITY, VACUUM AND DISPOSE OF THE WASTE MATERIAL IN AN APPROVED MANNER.
4. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE LOCATED A MINIMUM OF 50 FT FROM SENSITIVE AREAS INCLUDING OPEN DRAINAGE FACILITIES AND WATER SOURCES.
5. CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
6. INSTALL CONCRETE WASHOUT SIGN WITHIN 30 FEET OF TEMPORARY CONCRETE WASHOUT FACILITY.
7. TEMPORARY CONCRETE WASHOUTS MAY BE A PREFABRICATED CONTAINER THAT IS PORTABLE AND REUSABLE.

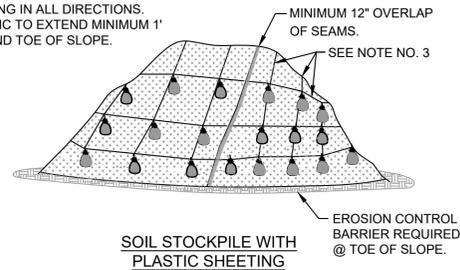


**6**  
**055** CONCRETE WASHOUT  
N.T.S.

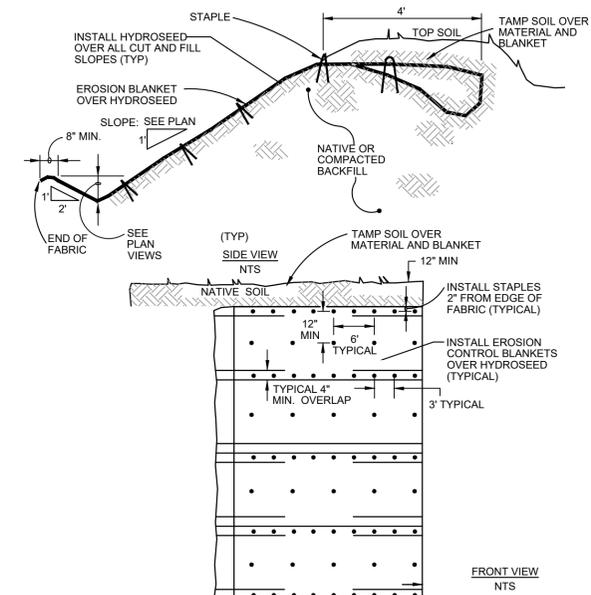
NOTES:

1. MINIMUM 12\"/>

FOR FURTHER INFORMATION ON DESIGN CRITERIA SEE CHAPTER 4 OF CLEAN WATER SERVICES EROSION PREVENTION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.



**7**  
**055** SOIL STOCKPILE DETAIL  
N.T.S.

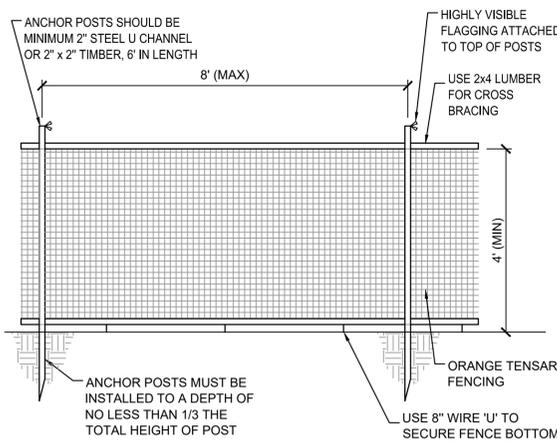


GENERAL NOTES:

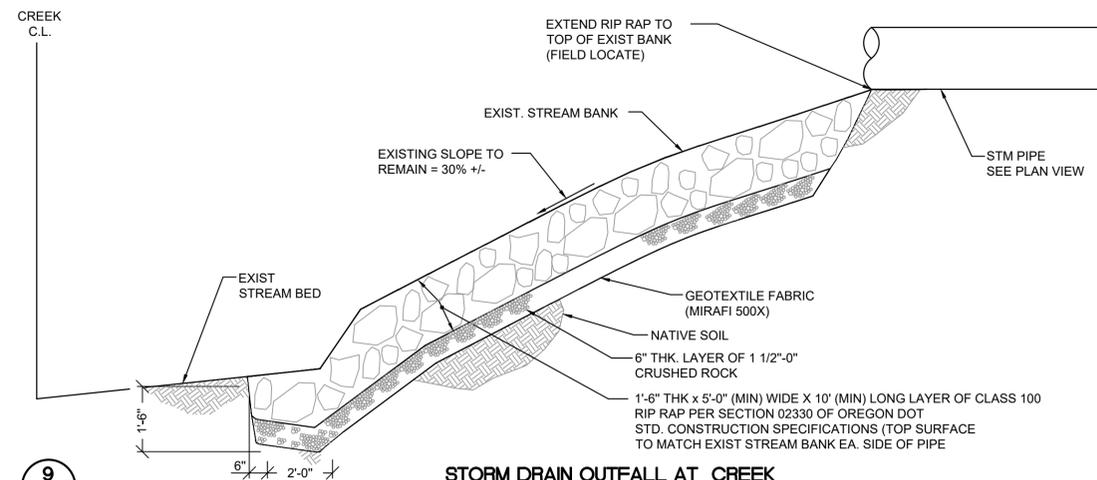
- PLACE EROSION BLANKET OVER HYDROSEED WITHIN (7) DAYS OF SLOPE GRADING.
- SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
- LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
- BLANKETS MUST BE STAPLED USING STAPLES A MINIMUM OF 6\"/>

**10**  
**055** EROSION BLANKET INSTALLATION DETAIL  
N.T.S.

EROSION/Blanket.dwg



**8**  
**055** TREE PROTECTION FENCE  
N.T.S.



**9**  
**055** STORM DRAIN OUTFALL AT CREEK  
N.T.S.

SD & SS/RipRapOutfall.dwg

REVISIONS:
10.23.2018 ESC PL CK
11.02.2018 ESC PL CK

# EROSION AND SEDIMENT CONTROL DETAILS

CLIENT: \_\_\_\_\_  
ENGINEER: \_\_\_\_\_

DESIGNED BY: \_\_\_\_\_ DRAWING NO.: ESC054  
DRAWN BY: \_\_\_\_\_ SCALE: AS NOTED  
CHECKED BY: \_\_\_\_\_ DATE: SEPTEMBER 5, 2018  
PREPARED FOR: \_\_\_\_\_

MULTNOMAH COUNTY  
TAX LOTS: \_\_\_\_\_  
OREGON  
MULTNOMAH COUNTY TAX MAP

JOB NUMBER  
18005  
SHEET  
ESC055