

# ESC PLAN FOR SITES 1 TO 5 ACRES

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

- 1. 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. 2. The ESCP measures shown on this plan are minimum requirements for anticipated site conditions. During the construction
- period, upgrade these measures as needed to comply with all applicable local, state, and federal erosion and sediment control regulations.
- 3. 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. 4. Phase clearing and grading to the maximum extent practical to prevent exposed inactive areas from becoming a source of
- 5. Identify, mark, and protect (by fencing off 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. 6. Preserve existing vegetation when practical and re-vegetate open areas. Re-vegetate open areas when practicable before and
- and must remain in place and be maintained, repaired, and promptly implemented following procedures established for the duration of construction, including protection for active storm drain inlets and catch basins and appropriate non-stormwater

### 8. Establish concrete truck and other concrete equipment washout areas before beginning concrete work. Direct all wash water into a pit or leak—proof container. Handle wash water as waste, concrete discharge to waters of the state is prohibited.

- 9. Apply temporary and/or permanent soil stabilization measures immediately on all disturbed areas as grading progresses and for all roadways including gravel roadways.
- 10. Establish material and waste storage areas, and other non-stormwater controls.
- 11. Prevent tracking of sediment onto public or private roads using BMPs such as: 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
- 12. When trucking saturated soils from the site, either use water-tight trucks or drain loads on site.
- 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, leftover paints, solvents, and alues from construction operations

- nutrient releases to surface waters. Exercise caution when using time—release fertilizers within any waterway riparian zone. 17. If a stormwater 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
- 18. 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.

- before BMP removal. 22. 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. 23. 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
- 24. 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.
- 25. Provide permanent erosion control measures on all exposed areas. Do not remove temporary sediment control practices until permanent vegetation or other cover of exposed areas is established. However, do remove all temporary erosion control measures as exposed areas become stabilized, unless doing so conflicts with local requirements. Properly dispose of
- 26. If vegetative seed mixes are specified, seeding must take place no later that September 1; the type and percentages of seed in the mix must be identified on the plans.
- sediment control BMP i.e. (filter bag).
- 29. (If water of the state is within the project site or within 50 feet of the project boundary, maintain the existing natural buffer within the 50-foot zone for the duration of the permit coverage, or maintain less than the entire existing natural buffer and provide additional erosion and sediment control BMPs.

\* 3 HOMES, 3 OUT BUILDINGS, FORESTED AREAS, PASTURE AREAS, AND DRIVEWAYS

### \* 39 LOT RESIDENTIAL SUBDIVISION WITH PUBLIC STREETS AND UTILITIES

NATURE OF CONSTRUCTION ACTIVITY AND ESTIMATED TIME TABLE

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11B - CORNELIUS AND KINTON SILT LOAMS, 2 TO 7 PERCENT SLOPES 11D - CORNELIUS AND KINTON SILT LOAMS, 12 TO 20 PERCENT SLOPES 11E - CORNELIUS AND KINTON SILT LOAMS, 20 TO 30 PERCENT SLOPES 11F - CORNELIUS AND KINTON SILT LOAMS, 30 TO 60 PERCENT SLOPES

ON-SITE SOILS HAVE A MODERATE TO HIGH EROSION POTENTIAL. ALL FILL

N	MINIMUM FREQUENCY				
	WEEKLY WHEN STORMWATER RUNOFF, INCLUDING RUNOFF FROM SNOW MELT, IS OCCURRING.				
	AT LEAST ONCE EVERY MONTH, REGARDLESS OF WHETHER STORMWATER RUNOFF IS OCCURRING.				
CTIVE OR SIBILITY.	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.				
<mark>fourteen</mark> S.	ONCE EVERY MONTH.				
IS INACCESSIBLE	IF PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT AND ACCESSIBLE DISCHARGE POINT OR DOWNSTREAM LOCATION.				
e is unlikely	MONTHLY. RESUME MONITORING IMMEDIATELY UPON MELT, OR WHEN WEATHER CONDITIONS MAKE DISCHARGES LIKELY.				

HOLD A PRE-CONSTRUCTION MEETING OF PROJECT CONSTRUCTION PERSONNEL THAT INCLUDES THE INSPECTOR TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES

\* ALL INSPECTIONS MUST BE MADE IN ACCORDANCE WITH DEQ 1200-CN PERMIT

\* INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200-CN PERMIT

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, RETAIN THE ESCP AT

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		HILLSBOR PHONE:	2550 SW HILLSBORO HIGHWAY HILLSBORO, OR 97123 PHONE: 503-681-3600 FAX: 503-681-3603			EXPIRES: Manth Day Year	SHEET XXXX	

- after grading or construction. Identify the type of vegetative seed mix used. 7. Erosion and sediment control measures including perimeter sediment control must be in place before vegetation is disturbed
- pollution controls.

- 13. Use BMPs to prevent or minimize stormwater exposure to pollutants from spills; vehicle and equipment fueling, maintenance,
- 14. 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. 15. Use water, soil-binding agent or other dust control technique as needed to avoid wind-blown soil.
- 16. The application rate of fertilizers used to reestablish vegetation must follow manufacturer's recommendations to minimize
- treatment system according to manufacturer's specifications.
- 19. Construction activities must avoid or minimize excavation and creation of bare ground during wet weather October 01 May
- 20. Sediment fence: remove trapped sediment before it reaches one third of the above ground fence height and before fence
- 21. Other sediment barriers (such as biobags): remove sediment before it reaches two inches depth above ground height, and
- clean up of sediment shall be performed according to the Oregon Division of State Lands required timeframe.
- construction materials and waste, including sediment retained by temporary BMPs.
- 27. All pumping of sediment laden water shall be discharged over an undisturbed, preferably vegetated area, and through a
- All exposed soils must be covered during the wet weather period, October 01 May 31.

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

## **BMP MATRIX FOR CONSTRUCTION PHASES**

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

C EROSION PREVENTION PRESERVE NATURAL VEGETATION GROUND COVER HYDRAULIC APPLICATIONS PLASTIC SHEETING MATTING DUST CONTROL TEMPORARY/ PERMANENT SEEDING BUFFER ZONE ER: SEDIMENT FENCE (PERIMETER) SEDIMENT FENCE (PERIMETER) SEDIMENT FENCE (INTERIOR) STRAW WATTLES FILTER BERM INLET PROTECTION	x *x *x	GRADING X X X X X X	INSTALLATION X X X X X X	X X X X X	STABILIZATION X X X X X X X	(OCT. 1 - MAY 31ST) X X X X X X X
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SEDIMENT FENCE (INTERIOR) STRAW WATTLES FILTER BERM	жX					
STRAW WATTLES FILTER BERM		X	X	X	X	X
FILTER BERM			X	X	X	X
		J 1	X	X	X	X
INLET PROTECTION	X	X	X	X	· · · · · · · · · · · · · · · · · · ·	· · · · ·
INCET PROTECTION	** X	X	X	X	X	X
DEWATERING			X	X		
SEDIMENT TRAP	X	X	X	X		
NATURAL BUFFER ENCROACHMENT	<b>"X</b>	<b>*X</b>	<mark>- %</mark>	<mark>%</mark>	<b>*X</b>	<b>X</b>
R:						
RUN OFF CONTROL				X	X	
CONSTRUCTION ENTRANCE	** X	X	X	X	X	
PIPE SLOPE DRAIN	X	X	X			
OUTLET PROTECTION	X	X	X	X	X	
SURFACE ROUGHENING		1			X	
CHECK DAMS	<b>*</b> χ	X	X	X	X	F
R:		1. 1.1			1	
POLLUTION PREVENTION		· · · · · · · · · · · · · · · · · · ·				
PROPER SIGNAGE	X	X	X	X	X	X
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SPILL KIT ON-SITE	X	X	X	X	X	X
CONCRETE WASHOUT AREA	X	X	X	X	X	X
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### **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.

INITIAL

PERMITTEE'S SITE INSPECTOR: JOE INSPECTOR

COMPANY/AGENCY: PHONE:

FAX

E-MAIL:

DESCRIPTION OF EXPERIENCE: 10 YEARS OF EXPERIENCE IN THE CONSTRUCTION INDUSTRY, OF WHICH 5 YEARS WERE SPENT INSTALLING AND MAINTAINING EROSION CONTROL MEASURES. ATTENDED AN 8 HOUR TRAINING COURSE ON THE PRINCIPLES AND PRACTICES OF EROSION CONTROL AT THE UNIVERSITY OF WASHINGTON. ATTENDED IECA CONFERENCE IN 2008 AND 2013.

# SHEET INDEX

### EROSION AND SEDIMENT CONTROL PLANS

C050 EROSION AND SEDIMENT CONTROL COVER SHEET CO51 CLEARING AND DEMOLITION EROSION AND SEDIMENT CONTROL PLAN C052 GRADING, STREET AND UTILITY CONSTRUCTION EROSION AND SEDIMENT CONTROL PLAN C053 EROSION AND SEDIMENT CONTROL DETAILS C054 EROSION AND SEDIMENT CONTROL DETAILS

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EXISTING GROUND CONTOUR (10 FT)	
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EXISTING TREE TO BE REMOVED	XX
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SEDIMENT BARRIER (INTERIOR)	xx
ORANGE CONSTRUCTION FENCE	<del></del>
SEDIMENT TRAP	$\sim$
BRUSH BARRIER	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
CHECK DAM	
CONSTRUCTION ENTRANCE	
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DIVERSION DIKE/SWALE	
INLET PROTECTION	
SEDIMENT MAT	
TEMPORARY SLOPE DRAIN	$\vdash \neg \triangleleft$
ROCK FILTER BERM	
TEMPORARY SLOPE STABILIZATION MEASURES	
DRAINAGE FLOW DIRECTION	$\rightarrow$

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.

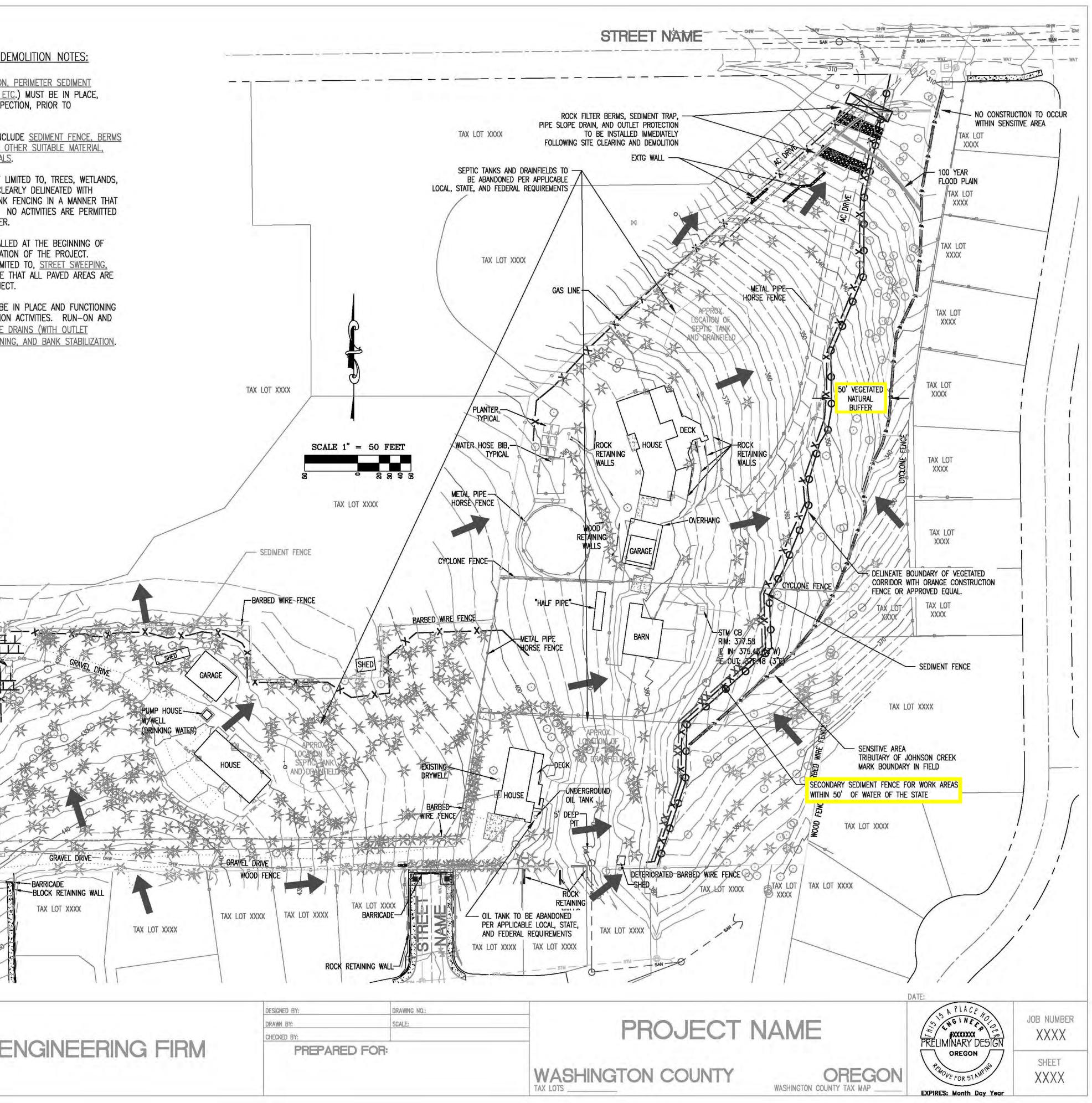
5. RUN-ON AND RUN-OFF CONTROLS SHALL BE IN PLACE AND FUNCTIONING PRIOR TO BEGINNING SUBSTANTIAL CONSTRUCTION ACTIVITIES. RUN-ON AND RUN-OFF CONTROL MEASURES INCLUDE: SLOPE DRAINS (WITH OUTLET PROTECTION), CHECK DAMS, SURFACE ROUGHENING, AND BANK STABILIZATION.

THESE EROSION AND SEDIMENT CONTROL PLANS ASSUME "DRY WEATHER" CONSTRUCTION. "WET WEATHER" CONSTRUCTION MEASURES NEED TO BE APPLIED BETWEEN OCTOBER 1ST AND MAY 31ST.

\* NOTE: PRE-DEVELOPED RUN-OFF SHEET FLOWS EASTERLY INTO ON-SITE DRAINAGE AND NORTHERLY ONTO ADJACENT PROPERTIES.

**REVISIONS:** 

CLEARING, DEMOLITION, DRAWN BY: SCALE: CHECKED BY: ENGINEERING FIRM MASS GRADING, EROSION AND PREPARED FOR: SEDIMENT CONTROL PLAN



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FINISHED GRADE CONTOUR (2 FT)	
FINISHED GRADE CONTOUR (10 FT)	
SEDIMENT BARRIER (PERIMETER)	X
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BRUSH BARRIER	~~~~
CHECK DAM	
CONSTRUCTION ENTRANCE	
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DIVERSION DIKE/SWALE	
INLET PROTECTION	
SEDIMENT MAT	
TEMPORARY SLOPE DRAIN	
COMPOST BLANKET	
SEEDING & MULCHING	10-10-14
CONCRETE WASH AREA	
OUTLET PROTECTION	
ROCK FILTER BERM	
TEMPORARY SLOPE STABILIZATION MEASURES	
LONG TERM SLOPE STABILIZATION MEASURES	
NEW IMPERVIOUS SURFACE	
DRAINAGE FLOW DIRECTION	
DRAINAGE FLOW DIRECTION	
ESE EROSION AND SEDIMENT CON RY WEATHER" CONSTRUCTION. "W INSTRUCTION MEASURES NEED TO TOBER 1ST AND MAY 31ST.	ET WEATHER"

<u>GRADING, STREET AND UTILITY EROSION AND SEDIMENT</u> <u>CONSTRUCTION NOTES:</u>

SEED USED FOR TEMPORARY OR PERMANENT SEEDING SHALL BE COMPOSED 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.)

DWARF PERENNIAL RYEGRASS (80% BY WEIGHT)
CREEPING RED FESCUE (20% BY WEIGHT)
C. STANDARD HEIGHT GRASS MIX (MIN. 100LB./AC.)
ANNUAL RYEGRASS (40% BY WEIGHT)
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 DTHER APPROVED MEASURES.

5. STOCKPILED SOIL OR STRIPPINGS SHALL BE PLACED IN A STABLE LOCATION AND CONFIGURATION. DURING "WET WEATHER" PERIODS, 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 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.

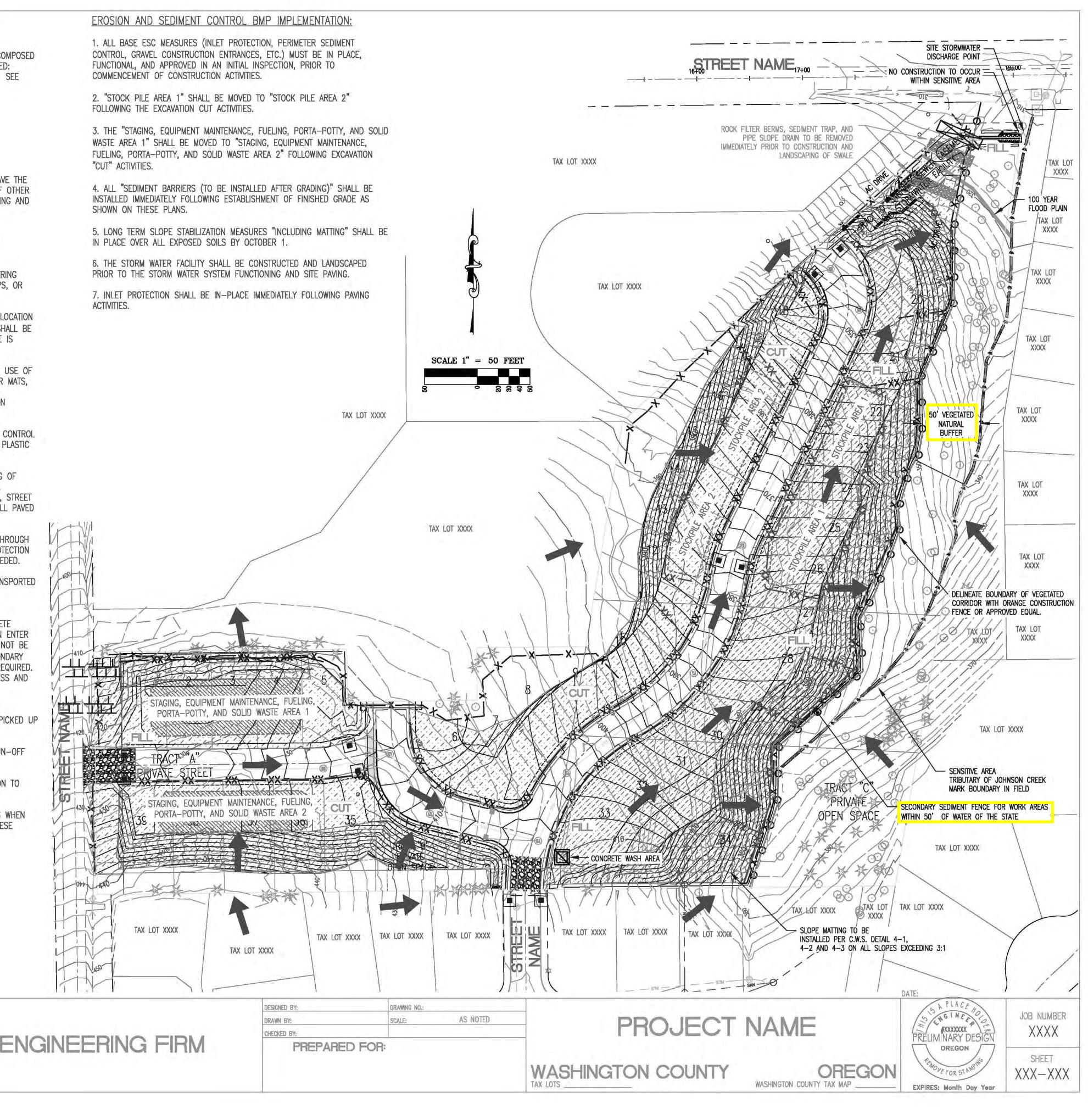
12. SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE SHALL NOT BE TRANSFERRED TO THE STORM WATER SYSTEM. SWEEPINGS SHALL BE PICKED UP AND DISPOSED IN THE TRASH.

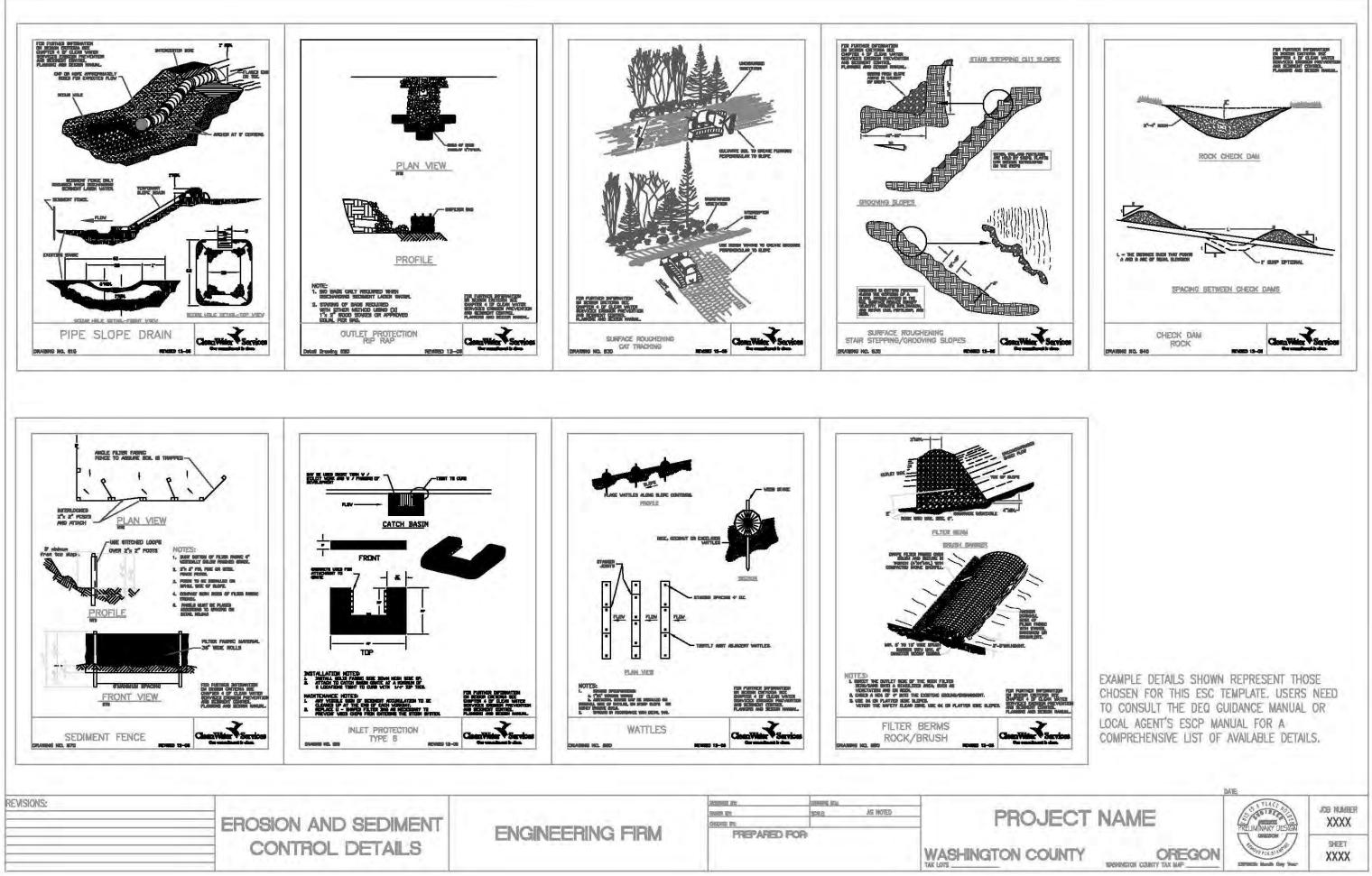
13. AVOID PAVING IN WET WEATHER WHEN PAVING CHEMICALS CAN RUN-OFF INTO THE STORM WATER SYSTEM.

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.

REVISIONS:	UTILITY + STREET CONST. GRADING + STABILIZATION EROSION/SED CONTROL PLAN	E





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