

APPENDIX 3B

Sample Notes for Construction Stormwater and Erosion Control Plans

I. INTRODUCTION

All notes in these sets are illustrative and require review and revision by the Engineer for each project and specific project conditions. Yellow highlights indicate a note to the designer.

2. MINIMALIST NOTE APPROACH

For construction stormwater and erosion control plan (CSECP) notes unless otherwise noted.

1. SUBMIT A CONSTRUCTION STORMWATER AND EROSION CONTROL PLAN (CSECP), TREE, VEGETATION AND SOIL PROTECTION PLAN (TVSPP), SPILL PLAN (SP), AND TEMPORARY DISCHARGE PLAN (TDP) IN ACCORDANCE WITH 8-01.3(2). Note to designer: The designer should note that TVSPP and temporary discharge are additional pay items. The engineer should determine what is required for each specific project site.
2. THE CONCEPTUAL CSEC MEASURES SHOWN ON THIS PLAN ARE THE MINIMUM BMPS FOR ANTICIPATED SITE CONDITIONS DURING THE CONSTRUCTION PERIOD. IF THE CONTRACTOR ADOPTS THIS CONCEPTUAL CSEC PLAN, THE CONTRACTOR'S MEANS AND METHODS MUST COMPLY WITH THE PLAN. THE CONTRACTOR MUST KEEP THE PLAN CURRENT IN ACCORDANCE WITH 8-01.3(3).
3. PROTECT TREES AND VEGETATION PER STANDARD SPECIFICATIONS 1 -07. 16 (2) AND 8-01.3(2)B. CONTACT SDOT URBAN FORESTRY (684-8621 OR 684-5041) FOR FIELD REVIEW OF TREE, VEGETATION, AND SOIL PROTECTION PLAN PRIOR TO CONSTRUCTION.

3. DETAILED NOTE APPROACH

For construction stormwater and erosion control plan (CSECP) notes unless otherwise noted.

1. THE CONSTRUCTION CONTRACTOR MUST USE ALL REASONABLE MEASURES TO MINIMIZE THE IMPACTS OF CONSTRUCTION ACTIVITY ON WATERS OF THE STATE. WATER QUALITY CONSTITUENTS OF CONCERN ARE TURBIDITY, SUSPENDED SEDIMENTS, SETTLEABLE SOLIDS, OIL AND GREASE, AND PH. REQUIRED CSEC MEASURES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
 - a. Submit a construction stormwater and erosion control plan (CSECP), tree, VEGETATION AND SOIL PROTECTION PLAN (TVSPP), SPILL PLAN (SP), AND TEMPORARY DISCHARGE PLAN (TDP) IN ACCORDANCE WITH 8-01.3(2). Note to designer: The designer should note that TVSPP and temporary discharge are additional pay items. The engineer should determine what is required for each specific project site.
 - b. THE CONCEPTUAL CSEC MEASURES SHOWN ON THIS PLAN ARE THE MINIMUM BMPS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD. THESE CSEC FACILITIES MUST BE UPGRADED (E.G. ADDITIONAL CATCH BASIN FILTERS, OR ADDITIONAL STORMWATER TREATMENT MEASURES) AS NEEDED, DUE

TO WEATHER OR FIELD CONDITIONS TO PREVENT SEDIMENT FROM ENTERING THE DRAINAGE SYSTEM OR OFF-SITE AREAS.

- c. THE CONTRACTOR MUST USE PROPER EROSION AND SEDIMENT CONTROL PRACTICES ON THE CONSTRUCTION SITE AND ANY ADJACENT CONSTRUCTION STAGING AREAS TO PREVENT EROSION IN AND DOWNHILL OF DISTURBED AREAS, AND TO PREVENT THE DISCHARGE OF UPLAND SEDIMENTS OR SEDIMENT- LADEN WATER INTO WETLANDS, WATER BODIES, STREETS AND LOCAL DRAINAGE SYSTEMS.
- d. THE CSEC FACILITIES ON THE APPROVED PLAN WILL BE CONSTRUCTED PRIOR TO SITE DISTURBANCE TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATER S, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
- e. THE CONTRACTOR MUST USE BMPS (E.G., DIVERSION DITCHES, BERMS) AS APPLICABLE TO MINIMIZE OFF-SITE RUNOFF AND CLEAN STORMWATER FROM ENTERING THE PROJECT AREA.
- f. THE CONTRACTOR MUST NOT DISCHARGE TURBID WATER GENERATED FROM CONSTRUCTION ACTIVITIES, DIRECTLY TO ANY STREAMS, STORM WATER SYSTEM INLETS, OR DRAINAGE DITCHES.
- g. SOIL STOCKPILES MUST BE STABILIZED FROM EROSION, PROTECTED WITH SEDIMENT TRAPPING MEASURES, AND, WHERE POSSIBLE, LOCATED AWAY FROM STORM DRAIN INLETS.
- h. THE CONTRACTOR MUST EMPLOY DUST CONTROL MEASURES AS NEEDED TO PREVENT SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES.
- i. CATCH BASIN PROTECTION MUST BE INSTALLED IN ANY GRATED ROAD DRAINAGE STRUCTURES, EXISTING OR NEWLY INSTALLED, WHICH ARE LIKELY TO RECEIVE RUNOFF FROM THE DISTURBED AREAS DURING CONSTRUCTION. CATCH BASIN PROTECTION SHOWN ON THE CONCEPTUAL CESC PLANS ARE APPROXIMATE LOCATIONS. THE CONTRACTOR MUST ADD CATCH BASIN PROTECTION AS NECESSARY TO ALL GRATED CATCH BASINS THAT RECEIVE STORMWATER RUNOFF WITHIN THE PROJECT AREA AND THAT MAY OR MAY NOT BE SHOWN ON THE CSEC PLANS.
- j. BMPS (E.G., COMPOST SOCKS) MUST BE INSTALLED TO PREVENT SEDIMENT OR SEDIMENT LADEN WATERS FROM ENTERING GRATED ROADWAY INLETS WHICH HAVE NO SUMP AND MAY BE TOO SHALLOW TO EMPLOY CATCH BASIN FILTER SOCKS. OTHER BMPS, SUCH AS STREET SWEEPING AND VACUUMING, MUST ALSO BE EMPLOYED AS NEEDED TO REMOVE SEDIMENT.
- k. AT NO TIME MUST MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES MUST BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION MUST NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- l. PER COS STANDARD SPECIFICATION SECTION 8- 01 .3(2)A AND THE CITY'S STORMWATER CODE, AREAS OF EXPOSED SOIL IN EXCESS OF 4,000 SQUARE FEET THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE PERIOD FROM OCTOBER 1 TO APRIL 30, OR SEVEN DAYS DURING THE PERIOD FROM MAY 1 TO SEPTEMBER 30, WILL BE IMMEDIATELY STABILIZED WITH APPROVED CSCEC METHODS (E.G., SEEDING, MULCHING, NETTING, CLEAR PLASTIC COVERING).

- m. THE CONTRACTOR'S CSECL MUST REVIEW AND MODIFY THE CSEC PLANS ON AN AS NEEDED BASIS TO REFLECT THE SITE CONDITIONS AND CONSTRUCTION METHODS USED. THE CONTRACTOR'S CESCL MUST CONDUCT SITE INSPECTIONS AT LEAST ONCE EVERY CALENDAR WEEK AND WITHIN 24 HOURS OF ANY RUNOFF DISCHARGE FROM SITE. AFTER ANY 24-HOUR RUNOFF PRODUCING EVENT, THE CESCL WILL INSPECT CSEC MEASURES FOR INTEGRITY. ANY DAMAGED CSEC MEASURES WILL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND REPAIRED IMMEDIATELY.
 - n. CONCRETE SAWCUTTING DEBRIS AND SLURRY MUST BE CONTAINED AND MANAGED USING APPROPRIATE BMPS TO PREVENT CONTAMINATION OF SITE WATER AND MEET DISCHARGE REQUIREMENTS. FRESH CONCRETE CAN ALSO ADVERSELY AFFECT SITE WATER QUALITY. PH SAMPLING AND TESTING MUST BE IN COMPLIANCE WITH APPLICABLE DISCHARGE AUTHORIZATIONS FROM KING COUNTY DURING CONCRETE POURS AND SAWCUTTING. IF PH EXCEEDS DISCHARGE LIMITS, APPROPRIATE BMPS MUST BE APPLIED.
 - o. THE CONTRACTOR MUST SET ASIDE A SEPARATE AREA FOR THE WASH-OUT OF CONSTRUCTION EQUIPMENT AND TOOLS. PROCESS WATER MUST BE HAULED OFF SITE OR DISCHARGED TO SEWER IN COMPLIANCE WITH A KING COUNTY DISCHARGE AUTHORIZATION.
 - p. TEMPORARY TRENCH DEWATERING MUST BE DISCHARGED TO AN APPROVED LOCATION. DISCHARGES TO THE SEWER SYSTEM MUST COMPLY WITH ALL PROVISIONS OF ANY DISCHARGE AUTHORIZATIONS FROM KING COUNTY AND SPU, AS WELL AS COS SPECIFICATIONS SECTION 2- 08.3 AND 8- 01.3(2)D AND E.
 - q. EXCAVATION SPOILS MAY BE EXTREMELY WET. CONTRACTOR MUST PREVENT MUD AND WATER FROM BEING TRACKED ALONG HAULING ROUTES BY LINING TRUCK BEDS OR BY OTHER MEANS, AS NECESSARY.
 - r. THE CONTRACTOR IS RESPONSIBLE FOR THE SEQUENCING AND STAGING OF ALL DEMOLITION AND CSEC ACTIVITIES AT APPROPRIATE TIMES.
2. PROTECT TREES AND VEGETATION PER STANDARD SPECIFICATIONS 1 -07. 16 (2) AND 8-01.3(2)B. CONTACT SDOT URBAN FORESTRY (684-8621 OR 684-5041) FOR FIELD REVIEW OF TREE, VEGETATION, AND SOIL PROTECTION PLAN PRIOR TO CONSTRUCTION.