

**PART 1 - GENERAL**

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| 1.1 | Related Requirements                | .1 | Section 01 13 00 – Submittal Procedures  |
| 1.2 | Environmental Requirements          | .1 | Operation of construction equipment in water is prohibited.  |
|     |                                     | .2 | Use borrow material from watercourse beds only after receipt of written approval from Departmental Representative and authority having jurisdiction.               |
|     |                                     | .3 | Design and construct temporary crossings to minimize environmental impact to watercourse.  |
|     |                                     | .4 | Constructing temporary crossings of watercourses where spawning beds are indicated is prohibited.  |
|     |                                     | .5 | Dumping excavated fill, waste material, or debris in watercourse or wetland is prohibited.   |
| 1.3 | References                          | .1 | U.S. Environmental Protection Agency (EPA) / Office of Water   |
|     |                                     | .1 | EPA 832/R-92-005, Storm Water Management for Construction Activities: Developing Pollution Prevention Plans and Best Management Practices.                         |
|     |                                     | .2 | British Columbia Ministry of Transportation Standard Specifications for Highway Construction (SS)  |
|     |                                     | .1 | SS 766-12, Irrigation  |
|     |                                     | .2 | SS 769-12, Protection and Retention of Vegetation  |
| 1.4 | Action and Informational Submittals | .1 | Submit in accordance with Section 01 33 00 - Submittal Procedures.   |
|     |                                     | .2 | Erosion and Sedimentation Control: submit copy of erosion and sedimentation control plan in accordance with EPA 832/R-92-2005 and authorities having jurisdiction. |

**PART 2 - PRODUCTS**

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| 2.1 | Not Used | .1 | Not used. |
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**PART 3 - EXECUTION**

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| 3.1 | Existing Conditions | .1 | Maintain existing flow in natural watercourse systems.                |
|     |                     | .2 | In natural systems retain existing riffle pool and step pool systems. |

- .3 In wetland systems, maintain existing hydrological conditions.
- 3.2 Site Clearing and Plant Protection
  - .1 Temporary Erosion and Sedimentation Control:
    - .1 Provide temporary erosion and sedimentation control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways, according to sediment and erosion control drawings, site-specific sediment and erosion control plan complying with referenced standards.
    - .2 Inspect, repair, and maintain erosion and sedimentation control measures during construction until permanent vegetation has been established.
    - .3 Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.
  - .2 Minimize disturbance to vegetated buffer zones and protect trees and plants on site and adjacent properties where indicated.
  - .3 Wrap trees and shrubs adjacent to construction work, storage areas and trucking lanes in burlap.
  - .4 Protect roots of designated trees to dripline during excavation and site grading to prevent disturbance or damage.
    - .1 Avoid unnecessary traffic, dumping and storage of materials over root zones.
  - .5 Leave cuttings from trees and other vegetation on site as brush piles to allow for natural degradation.
    - .1 Secure large piles with degradable materials to prevent interference with watercourse.
  - .6 Remove only trees that may offer future blockage problems as instructed by Departmental Representative.
  - .7 Leave roots mass and stumps in place.
  - .8 Maintain temporary erosion and pollution control features installed under this contract.
- 3.3 Drainage
  - .1 Pumping of water containing suspended materials into watercourse is prohibited.

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|                      | .2 | Establish rock chute spillways to accommodate safe surface water entry to watercourse as directed by Departmental Representative.  |
|                      | .3 | Install drop pipe inlet system as directed by Departmental Representative.   |
| 3.4 Site Restoration | .1 | Establish vegetated buffer zones with suitable vegetation to minimum 3 m along edge of watercourse banks as determined by Departmental Representative.                           |
|                      | .2 | Plant vegetation natural to area, suitable for application without requirement of fertilizers, pesticides or other chemicals.  |
|                      | .3 | Control stream bank erosion in lower section of watercourse with irregular shaped riprap underlain with nontoxic filter cloth of size determined by Departmental Representative. |
|                      | .4 | Control stream bank erosion in upper section of watercourse by planting suitable vegetation as directed by Departmental Representative.  |
|                      | .1 | Ensure planting occurs within 14 days after work on watercourse is complete.   |

**END OF SECTION**