

**[SWMP TEMPLATE (PLAN SHEETS) FOR PROJECTS WITH 1 ACRE OR MORE OF DISTURBANCE (9/1/20)**

[Notes within [ ] are designer directions – delete all directions prior to final plan submittal. All XXX shall be filled in by the SWMP Administrator for Design during design phase] Black text shall not be deleted. If you want to delete text in Black, contact the region SWMP Reviewer for the project. Text in Black is a mandatory requirement of the permit and compliments CDOT specifications.

**1. SITE DESCRIPTION**

The Contractor shall comply with all CDOT contractual requirements and all requirements associated with the CDPS-SCP on this project. The SWMP Administrator for Construction shall update to reflect current project site conditions.

- A. **PROJECT SITE LOCATION:** [include the location and limits of the project and the address of the construction office]  
Location or address of construction office: \_\_\_\_\_
- B. **PROJECT SITE DESCRIPTION:** [include description and nature of the construction activities at the site; type of project, summary of grading activities, installation of utilities, paving, excavation, landscape, etc. and the final disposition of the property. The SWMP Administrator for Design may also, refer to the project Form 463 description available on ProjectWise in the folder 01 Pre-Construction]
- C. **PROPOSED SEQUENCING FOR MAJOR CONSTRUCTION ACTIVITIES:** [describe the sequence of construction events involved in the project, such as clearing and grubbing, grading, drainage, excavation, structures removal and construction that may impact water quality etc.]
- D. **ACRES OF DISTURBANCE:** [includes clearing, grading, excavation, stockpiling of fill materials, demolition, areas with heavy equipment/vehicle traffic, installation of new or improved haul roads and access roads, staging areas, dedicated borrow/fill areas and storage that will disturb existing vegetative cover. Round area up to the nearest 100th of an acre or to the nearest sq. ft.]
  - 1. Total area of construction site (LOC (PERMITTED AREA)): [XXX] acres
  - 2. Total area of proposed disturbance (LDA): [XXX] acres [Consider offsetting top of cut and toe of fill lines based on constructability considerations in the field, 10' offset is recommended]
  - 3. Total area of seeding: [XXX] acres
  - 4. Total area of pre-project impervious surface: [XXX] sq. ft. [Include all existing impervious area within the project LOC]
  - 5. Total area of final impervious surface: [XXX] sq. ft. [Include all new and existing impervious area that remains within the project LOC]
- E. **EXISTING SOIL DATA:** [includes describing list of 12 USDA soil texture classification(s) or existing potential for soil erosion. Information can be found using the USDA Web Soil Survey] <https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>
- F. **EXISTING VEGETATION, INCLUDING PERCENT COVER:**

During design the SWMP Administrator for Design in consultation with the Engineer will determine if the SWMP Administrator for Design or the SWMP Administrator for Construction will conduct the Vegetation Transects as outlined in Chapter 4.11.2 of the CDOT's Erosion Control and Stormwater Quality Guide.

[A survey including general description of existing vegetation shall be conducted by either the SWMP Administrator for Construction or the SWMP Administrator for Design prior to any ground disturbance on the project. The manager shall photo-document existing vegetation where all work will be occurring. The manager shall also perform the vegetation survey transect(s) including photo documentation as outlined in Chapter 4.11.2 of CDOT's Erosion Control and Stormwater Quality Guide.

<https://www.codot.gov/programs/environmental/landscape-architecture/erosion-storm-quality/swgchapter4.pdf> ]

Pre-Construction Date of survey: \_\_\_\_\_ % Density: \_\_\_\_\_  
Description of existing vegetation: \_\_\_\_\_  
Map or table showing transect locations in SWMP tab 17:

Post-Construction Date of survey: \_\_\_\_\_ % Density: \_\_\_\_\_  
Description of existing vegetation: \_\_\_\_\_ **Date of CDPS-SCP Closure:** \_\_\_\_\_  
Map or table showing transect locations in SWMP tab 17:  
[Transect form is located on CDOT Landscape Architecture website]  
<https://www.codot.gov/programs/environmental/landscape-architecture>

G. **POTENTIAL POLLUTANTS SOURCES:** See First Construction Activities under Potential Pollutant Sources. The SWMP Administrator for Construction shall prepare a list of all potential pollutants and their locations in accordance with subsection 107.25.

H. **RECEIVING WATER:**

- 1. Outfall locations: [show on plans or table: size, type, location of pipes; ditch outfall locations; if the discharge is to a municipal separate storm sewer system (MS4), the name of that system, the location/owner of the storm sewer discharge and the ultimate receiving water]
- 2. Names of immediate receiving water(s) on site: [This includes all water courses, even if they are usually dry. If stormwater enters a ditch or storm sewer system, identify that system.]  
Does the on-site receiving water(s) have 303d impaired designation: [XXX]
- 3. Ultimate receiving water(s): [XXX]
- 4. Horizontal distance to nearest ultimate receiving water from project: [XXX]
- 5. Description of all stream crossings located within the Construction Site Boundary: [Include location, stream name and a description of any disturbed upland areas that may contribute to the stream at the stream crossing locations]

Location [Station or Mile Post]	Stream Name	Description Of Any Disturbed Upland Areas

I. **ALLOWABLE NON-STORMWATER DISCHARGES:** [The location of any anticipated sources of non-stormwater components of the discharge, such as uncontaminated springs and landscape irrigation return flow. SWMP Administrator for Construction shall provide a method statement of how discharge will be handled]

Discharge Description	Site Map #	Method Statement (Location)
Dewatering*		
Uncontaminated Spring		
Concrete Wash Water (in-ground washout structure)		
Landscape Irrigation Return Flows		
Emergency Fire Fighting		

\*Refer to CDPHE Low Risk Discharge Guidance Document of Uncontaminated Groundwater to Land. <https://www.colorado.gov/pacific/sites/default/files/WQ%20LOW%20RISK%20GW.pdf>

\*If ground water does not meet water quality standards for receiving water a separate CDPS Dewatering Permit shall be obtained by the Contractor from CDPHE in accordance with subsections 107.02 and 107.25.

**2. SITE MAP COMPONENTS:**

Pre-construction [The SWMP Administrator for Design will show the following items on the SWMP Site Map and label on the SWMP Site Map. For A-J below, SWMP Administrator for Design must reference the sheet(s) where they are shown and can be readily accessed. Make sure to use CDOT line types for the Limits of Disturbance Area (LDA) and the Limits of Construction (LOC). Limits of Disturbance Area is that area where the soil is proposed to be disturbed. Limits of Construction (LOC) is the area within the project limits.] [Locations of components are shown in the plan set, e.g. "See SWMP Site Maps"]

- A. **PROJECT CONSTRUCTION POTENTIAL SITE BOUNDARIES** [See SWMP Site Maps or reference site map #]
- B. **ALL AREAS OF GROUND SURFACE DISTURBANCE** [See SWMP Site Maps or reference site map #]
- C. **AREAS OF CUT AND FILL** [See SWMP Site Maps or reference site map X]

D. LOCATION OF ALL STRUCTURAL CONTROL MEASURES IDENTIFIED IN THE SWMP [See SWMP Site Maps or reference site map #]

E. LOCATION OF NON-STRUCTURAL CONTROL MEASURES AS APPLICABLE IN THE SWMP [See SWMP Site Maps or reference site map #]

F. STREAMS, SPRINGS, WETLANDS AND OTHER STATE WATERS, INCLUDING AREAS THAT REQUIRE PRE-EXISTING VEGETATION BE MAINTAINED WITHIN 50 FEET OF A RECEIVING WATER [See SWMP Site Maps or reference site map #]

G. PROTECTION OF TREES, SHRUBS AND CULTURAL RESOURCES [See SWMP Site Maps or reference site map #]

H. FLOW ARROWS THAT DEPICT STORMWATER FLOW DIRECTIONS ON-SITE AND RUNOFF DIRECTION [See SWMP Site Maps or reference site map #]

I. AREAS USED FOR STORING AND STOCKPILING OF MATERIALS, STAGING AREAS (field trailer, fueling, etc.) WASTE ACCUMULATION and BATCH PLANTS INCLUDING MASONARY MIXING STATIONS [See SWMP Site Maps or reference site map #, if known at time of design] [Do not include the location of staging areas off of CDOT's ROW and covered with a separate permit]

J. LOCATIONS OF ALL STREAM CROSSING LOCATED WITHIN THE CONSTRUCTION SITE BOUNDARY [See SWMP Site Maps or reference site map #]

D. PERMANENT STABILIZATION SUBJECT MATTER EXPERT: This qualified individual will be either a Regional Environmental Staff member, or an Independent Contractor Controller (Independent Assurance Program). This expert is a project team leader responsible for ensuring project adherence to requirements of the 207 and 212 Project Special Provisions as follows, and will be available for questions regarding permanent stabilization requirements. [See the Construction Phase Inspection and Verification Checklist on the Landscape Architecture website for regional contacts to address revegetation questions <https://www.codot.gov/programs/environmental/assets/construction-phase-inspection-and-verification-checklist-for-successful-roadside-revegetation> ]

1. Review the Topsoil Management Plan and the Permanent Stabilization Site Maps.
2. Attend the Environmental Pre-construction Conference.
3. Coordinate the Site Pre-vegetation Conference.
4. Review and recommend approval of products.
5. Review and recommend approval of the Quantities Verification Prerequisite.
6. Attend the Substantial Landscape Completion Walkthrough.
7. Attend the Final Landscape Completion Walkthrough.

Name/Title	Contact Information [phone & email]

#### 4. STORMWATER MANAGEMENT CONTROLS FOR FIRST CONSTRUCTION ACTIVITIES

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

##### A. POTENTIAL POLLUTANT SOURCES

Evaluate, identify, locate and describe all potential sources of pollutants at the site in accordance with subsection 107.25, CDPS-SCP and place in the SWMP. All control measures related to potential pollutants shall be shown on the SWMP Site Map by the Contractor's SWMP Administrator for Construction.

##### B. OFFSITE DRAINAGE (RUN ON WATER)

1. Describe and record control measures on the SWMP Site Map that have been implemented to address off site run-on water in accordance with subsection 208.03.

##### C. VEHICLE TRACKING CONTROL

1. Control measures shall be implemented in accordance with subsection 208.04.

##### D. PERIMETER CONTROL

1. Perimeter control shall be established as the first item on the SWMP to prevent the potential for pollutants leaving the construction site boundaries, entering the stormwater drainage system, or discharging to state waters. Perimeter control shall be in accordance with subsection 208.04  
 2. Perimeter control may consist of berms, silt fence, erosion logs, existing landforms, or other control measures as approved.

#### 5. DURING CONSTRUCTION

##### RESPONSIBILITIES OF THE SWMP Administrator for Construction

The SWMP should be considered a "living document" that is continuously reviewed and modified throughout the construction phasing. During construction, the following items shall be added, updated, or amended as needed by the SWMP Administrator for Construction in accordance with subsection 208.03.

During construction, indicate how items that have not been addressed during design are being handled in construction. If items are covered in the template or other sections of the SWMP, indicate below what section the discussion takes place.

A. MATERIALS HANDLING AND SPILL PREVENTION: prior to construction commencing the Contractor shall submit a Spill Prevention, Control and Countermeasure Plan, see subsection 208.06. Materials handling shall be in accordance with subsection 208.06.

B. STOCKPILE MANAGEMENT: Shall be done in accordance with subsections 107.25 and 208.07

### 3. QUALIFIED STORMWATER MANAGERS:

A. SWMP ADMINISTRATOR FOR DESIGN: CDOT Certified Individual responsible for developing SWMP Plan Sheets and SWMP Site Maps during the design phase. [The 207 & 212 requires that topsoil testing and the topsoil amendment requirements be completed by the SWMP Administrator for Design, for additional information see the SWMP development tools on the Landscape Architecture Section Website <https://www.codot.gov/programs/environmental/landscape-architecture/207-and-212-psp-required-swmp-development-tools-1>]

Name/Title	Contact Information [phone & email]	Certification #

B. SWMP ADIMISTRATOR FOR CONSTRUCTION: (As defined in Subsection 208) The Contractor shall designate a SWMP Administrator for Construction upon accepting co-permittee of the permit. The SWMP Administrator for Construction shall become the operator for the SWMP and assume responsibility for all design changes to the SWMP implementation and maintenance in accordance to 208.03, the SWMP shall remain the property of CDOT. The SWMP Administrator for Construction shall be responsible for implementing, maintaining and revising SWMP, including the title and contact information. The activities and responsibilities of the SWMP Administrator for Construction shall address all aspects of the project's SWMP. (Update the information below for each new SWMP Administrator for Construction) (Copy of TECS Certification must also be included in the SWMP.)

Name/Title	Contact Information (phone & email)	Certification #	Start Date	Engineer Approval

C. EROSION CONTROL INSPECTOR: (As defined in Subsection 208) The Contractor may designate an Erosion Control Inspector. The Erosion Control Inspector shall complete duties in accordance with subsection 208.03 (c) (Copy of TECS Certification must also be included in the SWMP.)

Name/Title	Contact Information (phone & email)	Certification #	Start Date	Engineer Approval



Project Special Provision should be used. See SWMP Site Map for locations. [The SWMP Administrator for Design should review the selected material for use under structures with the region environmental staff and hydraulic engineer]

H. RESEEDING OPERATIONS/CORRECTIVE STABILIZATION:

Prior to partial acceptance. [Select item(s) that apply]

1. All seeded areas shall be reviewed during the 7 day inspections by the SWMP Administrator for Construction and or Erosion Control Inspector for bare soils caused by surface or wind erosion. Bare areas caused by surface or gully erosion, blown away mulch, etc. shall be re-graded, seeded, and have the designated mulching applied as necessary, at no additional cost to the project.
2. The Contractor shall maintain seeding/mulch/tackifier/blanket/TRM, mow to control weeds or apply herbicide to control weeds in the seeded areas until Partial Acceptance of the stormwater construction work.

I. LONG TERM STORMWATER MANAGEMENT

See Item #18 (as defined in section 208.03(D)(1) of the SWMP for long term management practices to control pollutants in stormwater discharges that will occur after construction operations are completed. [The SWMP Administrator for Design should work with the design team to determine if permanent water quality is required on the project]

**10. PRIOR TO PROJECT FINAL ACCEPTANCE**

- A. Partial Acceptance shall be in accordance with subsections 107.25 (d), 208.10 and 214.04. At the Partial Acceptance of the project, it shall be determined by the SWMP Administrator for Construction and the Engineer which temporary control measures shall remain until 70% revegetation is established or which shall be removed. When directed by the Engineer, removal and disposal of temporary control measures shall be included in the cost of work.
- B. At the end of the project, all ditch checks shall either consist of temporary erosion logs (or equivalent) or permanent riprap.
- C. All storm drains shall be cleaned prior to the Final Acceptance of the project. Work shall be included in 202 Clean Culvert. [**\*\*Check with Region Water Quality staff to see if CLEAN CULVERT PSP is needed and what Pay Item to use.\*\***]

**11. NARRATIVES:** [Below are the CDOT narratives covered in CDOT's Standard Specifications and M Standard Plans. Proposed non-standard control measures during design should be added to the matrix. Place an X in the column for M-208 Standard or "X" for Non-Standard and provide a narrative. The narrative shall include what, when, where and why the control measure is being used. Also place an X in the appropriate implementation column(s)] [During design place a "B" in the Initial Activities Column for any control measures that must be installed before construction activity starts.]

**Control Measure Matrixes During Construction:**

- Control measure narratives have been included for the CDOT Standard Specifications and Standard Plan M-208 and M-216 along with any non-standard control measures approved during the design process. If a Non-Standard Control Measure not included in the SWMP is proposed and approved by the Engineer the SWMP Administrator for Construction shall do the following: Place an "X" in the column for non-standard and complete a Non-Standard Control Measure Specification and Narrative covering the what, when, where and why the control measure is being used shall be add to the SWMP. The appropriate "X" shall also be added to the implementation phase(s).
- The SWMP Administrator for Construction shall place an "X" in the column In Use On Site when the control measure has been installed.
- A "B" in the Initial Activities Column indicates that the control measure shall be installed **before** construction activity starts. Locations and quantities will be discussed during the Environmental Pre-Construction Conference with the Regional Water Pollution Control Manager.

**STRUCTURAL Control Measures** that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to:

APPLICATION, CONTROL MEASURE	NARRATIVE	M- 208 STANDARD or "X" for NON- STANDARD	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITIES	INTERIM ACTIVITIES	PERMANENT STABILIZATION
PROTECTION OF EXISTING WETLANDS <i>Fence (plastic) and erosion logs</i>	Fence (plastic) shall be placed in combination with erosion logs to prevent encroachment of construction traffic and sediment into state waters prior to start of construction disturbances. Fence (plastic) shall be placed adjacent to the wetlands; erosion logs shall be placed between the plastic fence and disturbance area. Logs shall be placed to direct flows away from or filter water running into wetlands from disturbance areas.			B or X	X	
PROTECTION OF EXISTING TREES/LANDSCAPING <i>Fence (plastic)</i>	Fence (plastic) shall be used in areas indicated in the plans to prevent encroachment of construction traffic and sediment for the protection of mature trees and/or existing landscaping prior to start of construction disturbances.			B or X	X	
CHECK DAM/DITCH CHECK <i>Erosion log, silt berm, silt dike, rock check dam</i>	Placed in ditches immediately upon completion of ditch grading to reduce velocity of runoff in ditch. For existing ditches, place prior to start of construction disturbances.	M-208		X	X	
Storm Drain Inlet Protection In Paved Roadways (Type 1, 2 and 3 as shown on M-208-1, sheet 5 of 11)	Manufactured storm drain inlet protection placed prior to construction disturbances as detailed in M-208-1, to protect existing inlets or immediately upon completion of new inlets to prevent sediment from entering the inlet throughout construction.	M-208		B or X	X	X
Storm Drain Inlet Protection In Native Seed Areas (M-604 Standard Inlets Type C and D)	Erosion logs or aggregate bags placed around inlet grate to prevent sediment from entering inlet. Place prior to construction disturbances to protect existing inlets or immediately upon completion of new inlets.	M-208		B or X		
CULVERT INLET/OUTLET PROTECTION <i>Erosion logs, aggregate bags</i>	Placed at mouth of culvert inlets and over top of culvert at inlet and outlet where disturbance may be occurring adjacent to pipe to prevent sediment laden water from entering pipe or drainage. Place prior to start of construction disturbances.	M-208		B or X	X	X
TYPE C, TYPE D AND TYPE 13 PROTECTION <i>Erosion logs, aggregate bags, erosion bales</i>	Placed around inlet grate or slope and ditch paving to prevent sediment from entering inlet. Place prior to start of construction disturbances.	M-208		B or X	X	X
STOCKPILE PROTECTION <i>Temporary berm, erosion logs, aggregate bags*</i>	Placed within specified distance, in accordance with subsection 208.06, from toe to contain sediment around stockpile. *Aggregate bags are easily moved and replaced for access during the work day. Place prior to start of stockpile, increase control as stockpile increases size.	M-208			X	
TOE OF FILL PROTECTION <i>Erosion logs, temporary berm, silt fence, topsoil windrow*</i>	Place prior to slope/embankment work to capture sediment and protect and delineate undisturbed areas. *Can be used to stockpile topsoil for salvage.	M-208		X	X	
PERIMETER CONTROL <i>Erosion logs, silt fence, temporary berm, topsoil windrow*</i>	Placed prior to construction commencing to address potential run-on water from off site, and to divert around disturbed area. *Can be used to stockpile topsoil for salvage.	M-208		B or X	X	
SEDIMENT CONTROL/ SLOPE CONTROL <i>Silt fence, erosion logs</i>	Placed on the contour of a slope to contain and slow down construction runoff. Place prior to start of construction disturbances.	M-208		X	X	
TEMPORARY SEDIMENT TRAP	Used to capture sediment laden runoff from disturbed areas < 5 acres during construction. Place prior to start of construction disturbances. Outlets that withdraw water from or near the surface may be installed when discharging from basins and impoundments.	M-208		X	X	
EMBANKMENT PROTECTION OR TEMPORARY SLOPE DRAIN OUTLET PROTECTION	Placed as a conduit or chute to drain runoff down slope and to prevent erosion of slope. Material placed as energy dissipater to prevent erosion at outlet structure.	M-208 M-601-12			X X	X X

<i>Riprap, or approved other</i>					
CONCRETE WASHOUT <i>In-ground or fabricated</i>	Construction control, used for waste management of concrete and concrete equipment cleaning. Place prior to start of concrete activities.	M-208		X	X
VEHICLE TRACKING PAD	Source control, placed to prevent tracking of sediment from disturbed area to offsite surface. Place prior to start of construction disturbances.	M-208		B or X	X
Engineered SEDIMENT BASIN	Constructed early in project, prior to storm sewer/ditches and in accordance with 208.05(p) to capture storm flow. Outlet structure and/or outfall shall be modified for temporary sediment control using an approved non-standard detail. Outlets that withdraw water from or near the surface shall be installed when discharging from basins and impoundments, unless infeasible			X	X
DEWATERING <i>(Contractor is responsible for obtaining a permit from Colorado Department of Health and Environment.)</i>	Shall be done in such a manner to prevent potential pollutants from entering state waters.			X	X
TEMPORARY STREAM CROSSING	Constructed over stream or drainage to prevent discharge of pollutants from construction equipment into water.			X	X
CLEAN WATER DIVERSION	Placed to divert clean surface or ground water around disturbance area to prevent it from mixing with construction runoff.			X	X
OTHER					

**NON-STRUCTURAL Control Measures** that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to:

Erosion control devices are used to limit the amount of soil loss on site. Sediment control devices are designed to capture sediment on the project site. Construction controls are control measures related to construction access and staging. Control Measure locations are indicated on the SWMP Site Map.

\* **Use of vegetative buffer strip requirements.** The CDPHE Water Quality Control Division Technical Memorandum dated August 27, 2015 clarifies the requirements for utilization of existing vegetation as a buffer type of sediment control measure, while maintaining compliance with the CDPS permit for Stormwater Discharges Associated with Construction Activity – CDPS Permit No. COR4000000. In general, the division does not recommend that vegetated buffers be implemented as a sediment removal control measure for runoff from disturbed areas at construction sites, unless implemented as a “finishing” component of a treatment train comprised of additional, adequate up-gradient Control Measures. The entire memorandum can be found at: <https://www.colorado.gov/pacific/sites/default/files/Vegetative%20Buffer%20Memo.pdf>

APPLICATION, CONTROL MEASURE	NARRATIVE	M- STANDARD or “For NON- STANDARD	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITY	INTERIM ACTIVITIES	PERMANENT STABILIZATION
* VEGETATIVE BUFFER STRIP <i>Fence (plastic)</i>	Finishing component for filtering sediment-laden runoff from disturbance area. Area within CDOT ROW or temporary easement to be identified on SWMP prior to construction starting.			X	X	X
GRADING APPLICATIONS (LANDFORM)	Existing or created landforms may be used as a control measure if they prevent sediment from entering or leaving the disturbance area. If a landform directs flow of water to a concentrated outfall point, the outfall point shall be protected to prevent erosion. Area to be identified on SWMP prior to construction starting.	M-208		X	X	
TOPSOIL MANAGEMENT STOCKPILE/SALVAGE <i>Windrow or stockpile</i>	Prior to any site disturbance work commencing, existing topsoil shall be scraped to a depth four inches or as specified, and placed in stockpiles or windrows. Upon completion of final grading, topsoil shall be evenly distributed over embankment to a depth of four inches or as specified.	M-208		X	X	X
SURFACE ROUGHENING / GRADING TECHNIQUES	Temporary stabilization of disturbance and to minimize wind and erosion.				X	
SEEDING (TEMPORARY)	Temporary stabilization used for over wintering of disturbance or used to control erosion for areas scheduled for future construction.				X	
BONDED FIBER MATRIX or MULCHING (HYDRAULIC)	Not to be used in areas of concentrated flows, i.e. ditch lines. To be for either Interim or Permanent Stabilization placed as a surface cover for erosion control. May be used as surface cover when work is temporarily halted and as approved by the Engineer for stockpiles.				X	
Straw or Hay MULCH/MULCH TACKIFIER	Interim or Permanent Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as Interim Stabilization as a surface cover when work is temporarily halted and as approved by the Engineer				X	X
SPRAY-ON MULCH BLANKET (Not to be used in areas of concentrated flows, i.e. ditch lines.)	Interim or Permanent Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as temporary surface cover when work is temporarily halted and as approved by the Engineer				X	X

<i>SEEDING PERMANENT (NATIVE)</i>	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.					X
<i>SOIL RETENTION BLANKET (SRB)</i>	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.	M-216			X	X
<i>TURF REINFORCEMENT MAT (TRM)</i>	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas. Placed in channels or on slopes for erosion control, channel liner and seeding establishment.	M-216				X
<i>Sweeping</i>	Source control, used to remove sediment tracked onto paved surfaces and to prevent sediment from entering drainage system. Sweep daily and at the end of the construction shift as needed. Kick brooms shall not be permitted.			X	X	X
<i>OTHER</i>						

**12. TABULATION OF STORMWATER QUANTITIES**

- A. Control Measure sediment removal and disposal shall be paid for as: 208 Removal and Disposal of Sediment (Equipment) and 208 Removal and Disposal of Sediment (Labor). All other control measure maintenance shall be included in the cost of the control measure.
- B. It is estimated that [XXX] hours of blading (140-250 horsepower), dozing (130-250 horsepower) and/or combination loader (80-125 horsepower) may be required for miscellaneous erosion control work as directed by the Engineer. Work shall be paid for as: [Select appropriate pay item, delete references to others] 203 Blading, 203 Dozing and/or 203 Combination Loader]
- C. This project includes pay items 214-00008 Extended Landscape Preservation. Refer the project special provision for all work to be performed during the extended landscape maintenance period for this project. [Check with Region Water Quality staff to see if extended landscape maintenance should be included on the project and the number of months (12-36) required]

[Designer to delete all that do not apply. Designer to verify SWMP tabulations quantities are included in the Summary of Approximate Quantities]  
 [The following pay items can be used for interim stabilization as defined in section 208.04(e)(2): 213-00002, 213-00003, 213-00004, 213-00007, 213-00012, 213-00013, 213-00061, 213-00150, 213-00151]  
 [X in the PSP Spec Column refers to approved Project Special Provisions (PSP) located on the Landscape Architecture website. If used on the project the designer should make sure the PSP is included in all reviews and the final contract]  
 [R1 in the PSP Spec. Column refers to Region 1 only PSP]  
 [W in the PSP Spec. Column refers to Project Special Provision Worksheets that are available on this website [https://www.codot.gov/business/designsupport/cdot-construction-specifications/2019-construction-specifications/project-special-provision-work-sheets?b\\_start:int=20](https://www.codot.gov/business/designsupport/cdot-construction-specifications/2019-construction-specifications/project-special-provision-work-sheets?b_start:int=20)]

PSP Spec.	Pay Item	Description	Pay Unit	Initial Const	Interim Const.	Permanent Stabilization	*Total Quantity
X	202-04002	Clean Culvert	Each				
	203-01500	Blading	Hour				
	203-01550	Dozing	Hour				
X	203-01594	Combination Loader	Hour				
	207-00700	Topsoil (Onsite)	CY				
	207-00706	Seeding Media	CY				
	207-00702	Topsoil (Offsite)	CY				
	207-00703	Topsoil (wetland)	CY				
	207-00704	Subgrade Soil Preparation	SY				
	208-00001	Silt Dike	LF				
	208-00004	Silt Berm	LF				
	208-00012	Erosion Log Type 1 (9 inch)	LF				
	208-00002	Erosion Log Type 1 (12 inch)	LF				
	208-00013	Erosion Log Type 1 (20 Inch)	LF				
	208-00007	Erosion Log Type 2 (8 Inch)	LF				
	208-00008	Erosion Log Type 2 (12 Inch)	LF				
	208-00009	Erosion Log Type 2 (18 Inch)	LF				
	208-00011	Erosion Bales (Weed Free)	Each				
X	208-00015	Sand Bag	LF				

	208-00030	Sediment Basin	Each				
	208-00020	Silt Fence	LF				
	208-00021	Silt Fence (Reinforced)	LF				
	208-00022	Erosion Log Type 3 (9 Inch)	LF				
	208-00023	Erosion Log Type 3 (12 Inch)	LF				
	208-00024	Erosion Log Type 3 (20 Inch)	LF				
X	208-00025	Plastic Sheeting	SY				
X	208-00026	Coir Roll	LF				
	208-00033	Sediment Trap	Each				
	208-00035	Aggregate Bag	LF				
	208-00041	Rock Check Dam	Each				
	208-00045	Concrete Washout Structure	Each				
	208-00046	Pre-fabricated Concrete Washout Structure (Type 1)	Each				
	208-00047	Pre-fabricated Concrete Washout Structure (Type 2)	Each				
	208-00051	Storm Drain Inlet Protection (Type I)	LF				
	208-00052	Storm Drain Inlet Protection (Type II)	LF				
	208-00053	Storm Drain Inlet Protection (Type I)(84 Inch)	Each				
	208-00054	Storm Drain Inlet Protection (Type II)	Each				
X	208-00055	Rigid Inlet Protection Device	Each				
	208-00056	Storm Drain Inlet Protection (Type III)	Each				
	208-00057	Storm Drain Inlet Protection (Type I)(144 Inch)	Each				
	208-00058	Storm Drain Inlet Protection (Type I)(204 Inch)	Each				
	208-00060	Temporary Slope Drains	LF				
	208-00070	Vehicle Tracking Pad	Each				
	208-00071	**Maintenance Aggregate (Vehicle Tracking Pad)	CY				
	208-00075	Pre-fabricated Vehicle Tracking Pad	Each				
	208-00103	Removal and Disposal of Sediment (Labor)	Hour				
	208-00105	Removal and Disposal of Sediment (Equipment)	Hour				
	208-00106	Sweeping (Sediment Removal)	Hour				
	208-00107	Removal of Trash	Hour				
	208-00207	Erosion Control Management (ECM)	Day				
	208-00300	Temporary Berm	LF				



	208-00301	Temporary Diversion	LF				
	212-00700	Organic Fertilizer	Pounds				
	212-00701	Compost (Mechanically Applied)-	CY				
	212-00702	Biotic Soil Amendments (Hydraulic Applied)	Pounds				
	212-00703	Humate	Pounds				
	212-00704	Mycorrhizae	Pounds				
	212-00705	Elemental Sulfur	Pounds				
	212-00706	Seeding (Native) Drill	Acre				
	212-00707	Seeding (Native) Hydraulic	Acre				
	212-00708	Seeding (Native) Broadcast	Acre				
	212-00709	Seeding (Wetland) Drill	Acre				
	212-00710	Seeding (Wetland) Hydraulic	Acre				
	212-00711	Seeding (Wetland) Broadcast	Acre				
	212-00009	Seeding (Temporary)	Acre				
	213-00002	Mulching (Weed Free Hay)	Acre				
	213-00003	Mulching (Weed Free)	Acre				
	213-00004	Mulching (Weed Free Straw)	Acre				
	213-00007	Mulching Wood Strand	Acre				
	213-00012	Spray-on Mulch Blanket	Acre				
	213-00013	Spray-on Mulch Blanket	LB				
	213-00061	Mulch Tackifier	LB				
	213-00150	Bonded Fiber Matrix	Acre				
	213-00151	Bonded Fiber Matrix	LB				
W	214-00008	Extended Landscape Preservation	LS				
	216-00101	Soil Retention Blanket (Straw/Coconut) (Photodegradable Class 1)	SY				
	216-00111	Soil Retention Blanket (Excelsior) (Photodegradable Class 1)	SY				
	216-00122	Soil Retention Blanket (Coconut) (Photodegradable Class 2)	SY				
	216-00201	Soil Retention Blanket (Straw/Coconut) (Biodegradable Class 1)	SY				
	216-00211	Soil Retention Blanket (Excelsior) (Biodegradable Class 1)	SY				
	216-00222	Soil Retention Blanket (Coconut) (Biodegradable Class 2)	SY				
	216-00301	Turf Reinforcement Mat (Class1)	SY				
	216-00302	Turf Reinforcement Mat (Class 2)	SY				
	216-00303	Turf Reinforcement Mat (Class 3)	SY				
	217-00000	Herbicide Treatment	SY				
	217-00020	Herbicide Treatment	Hour				

	610-00050	Median Cover Material (Stone)	Ton				
	607-11525	Fence (Plastic)	LF				
X	615-00152	Erosion Protector (Special)	LF				
X	700-70380	F/A Erosion Control	FA				
X	700-90026	F/A Landscaping	FA				

\*It is anticipated that additional control measures and control measure quantities not shown on the SWMP Site Maps shall be required on the project for unforeseen conditions and replacement of items that are beyond their useful service life, see subsections 208.03 and 208.04. **Quantities for all control measures shown above are estimated, and have been increased for unforeseen conditions and normal control measure life expectancy.** Quantities shall be adjusted according to the conditions encountered in the field as directed and approved by the Engineer. Payment shall be for the actual work completed and material used.

\*\*Pay Item 208-00071 is included for anticipated maintenance of vehicle tracking pads based on the service life of the control measure in the field. The use of the material shall be directed and approved by the Engineer.

\*\*\* F/A refers to CDOT's Force Account Pay Items.

### 13. BIOLOGIC IMPACTS and DEWATERING

#### A. ENVIRONMENTAL IMPACTS:

1. Wetland Impacts: YES NO [Consult with the Regional Wetland Biologist for assistance] [Remove the answer which does not apply]
2. Stream Impacts: YES NO [Remove the answer which does not apply]
3. Threatened and Endangered Species: [List any species that will be impacted by the project, or state that "No species are anticipated to be impacted by the project." As a reference, start with the NEPA Biologic Assessment for T&E impacts]

#### B. DEWATERING (Not Covered Under the CDPHE Low Risk Discharge Guidance Document of Uncontaminated Groundwater to Land):

1. Dewatering: Refer to other environmental permits in accordance with subsection 107.02 and the permits contained in Tab 16 of the SWMP.

### 14. NOTES