Connecticut Guidelines for Soil Erosion and Sediment Control Measures
Functional Group: Measure
Key Description
Applicability
Functional Group: Measure
Key Description

5-2 Preserve and Conserve Soil


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 5-3 Vegetative Soil Cover

| Temporary Seeding |
| :--- |
| Permanent Seeding |
| Soodding |
|  |

Landscape Planting

| Temporary Soil Protection | TSP |
| :--- | :--- |
| Mulch for Seed |  |
| Landscape Mulch |  |
| Temporary | Erosion Control Blanket |
| Eermanent Turf Reinforcement Mat | ECB |
| Stone | TRM |
|  | LM |

RetainingWalls

## Riprap <br> Sarmanent Slope Drain

Channel Grade Stabilization Structure Temporary Lined Chute

Temporary Pipe Slope Drain

## vegetated Waterway

Temporary Lined Channel

Permanent Lined Waterway

Temporary Stream Crossin





## 5-4 Non-Living Soil Protection




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5-5 Stabilization Structures
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Tsc

Temporary Fill Berm Water Bar


WB

PO Amanmax

## 5-8 Subsurface Drains



## - Energy Dissipators


 Stone Check Dam

OP Syyyy


## 5-11 Sediment Impoundments, Barriers \& Filters

| Temporary Sediment Basin | SB |  | Below disturbed areas with a contributing drainage areas less than 100 acres. For drainage areas less than five acres, a Temporary Sediment Trap may be used. $\quad 0$ nly for locations where failure of the temporary sediment basin will not, within reasonable expectations, result in loss of life or damage <br> be used. 0 nly for locations where failure of the temporary sediment basin will not, within reasonable expectations, result in loss of life or damage to buildings, roads, railroads or utilities. $\quad$ N ot for use as a post-construction stormwater renovation system. |
| :---: | :---: | :---: | :---: |
| Temporary Sediment Trap | TST |  |  measure. Where the intended use is 2 years or less. For uses greater |
| Hay Bale Barrier | нв |  |  |
| Geotextile Silt Fence | GSF |  |  |
| Turbidity Curtain | TC |  |  |
| Vegetative Filter | vF |  <br>  |  lisher |
|  |  | 5-12 Tire Trac | ked Soils |
| Construction Entrance | CE | A stone stabilized pad sometimes associated with a mud rack, automotive spray, or other measures located at points of vehicular ingress and egress on a construction site. |  |

Pump Intake and Outlet Protection
Pump
Pumping Settling Basin
Portable Sediment Tank

## abutment

Abbreviation / Term
access road

## aggregate

ANSI
anti-seep collars
aquifer
apron
artesian
ASTM
auxiliary spillway
balled \& burlapped

## bare-root

barrel
base flow

## bed load

bedding
berm

## borrow area

CGS
channel
channel capacity
channel grade
stabilization structure
channel stabilization chute
clay

Page Number on which they appear
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$5-5-3,5-5-4,5-5-8,5-5-9,5-5-11,5-5-18,5-5-19,5-5-20,5-6-1,5-6-2,5-6-3$, $5-6-16,5-6-17,5-6-18,5-6-19,5-6-20,5-6-21,5-6-22,5-6-23,5-6-27,5-6-29$, $5-6-30,5-6-31,5-7-2,5-7-6,5-7-8,5-7-9,5-7-10,5-7-12,5-7-13,5-8-7,5-9-3$, 5-9-11, , 5-10-1, 5-10-2, 5-10-3, 5-10-6, 5-10-7, 5-10-12, 5-10-16, 5-11-2, 5-11-10, 5-11-11, 5-11-26, 5-11-41, C-1, C-2, C-3, C-4, C-5, C-6, C-7, C-8, C-9, C-10, C-11, F-3, F-6, I-1, J-1, L-1

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| cofferdam | 4-10, 4-11, 4-15, 5-13-11, C-2 |
| :---: | :---: |
| concrete | $\begin{aligned} & 3-7,4-3,4-45-3-6,5-5-3,5-5-4,5-5-5,5-5-9,5-5-18,5-5-20,5-6-17,5-6-18,5-6-19, \\ & 5-6-20,5-6-21,5-6-22,5-6-23,5-6-25,5-6-29,5-6-30,5-8-6,5-8-9,5-9-4,5-9-10, \\ & 5-9-11, \text {, } 5-10-3,5-10-7,5-11-7,5-11-8,5-11-9,5-11-10,5-11-42, \text { C-2, C-6, C-7, } \\ & \text { C-10, L-1 } \end{aligned}$ |
| construction entrance | 3-11, 4-2, 4-3, 4-9, 5-1-3, 5-6-30, 5-12-1, 5-12-2, 5-12-3, 5-12-4, C-2, L-1 |
| Continuity Equation | 5-6-2, 5-6-19, 5-6-22, 5-6-23, C-2 |
| contour | $\begin{aligned} & 3-4,3-5,3-75-2-10,5-2-11,5-3-7,5-3-13, \text {, 5-11-4, 5-11-30, 5-11-32, 5-11-34, } \\ & 5-11-35,5-11-36,5-11-40, \text { A-5, C-2, C-4, C-9, C-10, F-3, L-1 } \end{aligned}$ |
| control section | 5-9-11, 5-11-10, 5-11-11, A-3, C-2 |
| core trench | C-2 |
| cover | $\begin{aligned} & 2-1,2-4,2-5,2-7,3-7,3-11,4-8,4-16,5-1-1,5-1-2,5-1-3,5-2-4,5-2-5,5-2-8,5-2-10, \\ & 5-2-11,5-3-1,5-3-2,5-3-3,5-3-4,5-3-5,5-3-12,5-3-16,5-3-20,5-3-25,5-3-27,5-4-1, \\ & 5-4-2,5-4-4,5-4-6,5-4-8,5-4-9,5-4-10,5-4-12,5-4-13,5-4-14,5-5-1,5-5-8,5-5-12, \\ & 5-5-16,5-5-20,5-5-21,5-5-23,5-6-2,5-6-3,5-6-30,5-6-31,5-7-9,5-8-6,5-9-4, \\ & 5-11-7,5-11-24,5-11-31,5-13-1, \text { A-2, B-1, C-1, C-2, C-7, C-9, I-3, J-1, L-1 } \end{aligned}$ |
| creep | 1-1, 2-1, C-2, C-4 |
| crest | $\begin{aligned} & 5-2-7,5-7-6,5-9-3,5-9-4,5-9-5,5-9-9,5-9-10,5-9-11,5-9-12,5-11-6,5-11-7,5-11-8, \\ & 5-11-10,5-11-11,5-11-14,5-11-15,5-11-23,5-11-24,5-11-26,5-11-27,5-11-29, \\ & 5-13-7, \text { C-2, C-4 } \end{aligned}$ |
| critical depth | 5-6-19, C-2 |
| cross section | $5-6-3,5-6-18,5-6-19,5-9-4,5-11-6,5-11-11,5-13-16$, C-2 |
| cross-sectional area | 5-6-22, 5-8-5, 5-9-5, C-2 |
| cut | $\begin{aligned} & 3-7,3-10,4-1,4-2,4-3,4-4,5-1-3,5-1-5,5-1-95-2-7,5-2-8,5-2-10,5-3-7,5-3-12, \\ & 5-3-13,5-3-20,5-3-22,5-4-3,5-4-5,5-5-16,5-5-18,5-5-20,5-5-23,5-7-12,, 5-10-3, \\ & 5-11-26,5-11-42, \text { C-2, C-3, C-8, C-10, L-1 } \end{aligned}$ |
| dam | $\begin{aligned} & 1-1,1-3,3-11,4-9,4-12,4-13,5-1-35-9-2,5-9-4,5-9-9,5-9-10,5-9-11,5-9-12, \\ & 5-10-1,5-10-11,5-10-12,5-10-13,5-10-14,5-10-15,5-10-16,5-11-2,5-11-3,5-11-5, \\ & 5-11-6,5-11-8,5-11-11,5-11-12,5-11-14,5-11-25,5-11-30,5-11-31,5-11-35, \\ & 5-11-46, \text { C-1, C-2, C-3, C-4, C-9, C-10, C-11, F-4, L-1 } \end{aligned}$ |
| DEP | $\begin{aligned} & 1-2,3-3,3-4,3-5,3-6,3-7,3-9,5-6-16,5-6-30,5-9-2, \text { C-3, E-1, E-2, F-1, F-3, F-4, } \\ & \mathrm{J}-1, \mathrm{~L}-1 \end{aligned}$ |
| deposition | $\begin{aligned} & 2-1,2-6,2-7,3-7,3-9,3-10,3-11,5-2-13,5-6-3,5-6-20,5-7-13,5-11-5,5-11-12, \\ & 5-11-45,5-11-46, \text { B-1, C-3, C-4, C-8, I-1, I-2, I-3 } \end{aligned}$ |
| detention basin | $\begin{aligned} & 2-7,3-6,3-11,4-2,5-1-3,5-9-1,5-9-2,5-9-3,5-9-4,5-9-5,5-9-6,5-9-7,5-9-8,5-9-9, \\ & 5-9-10,5-9-11,5-9-12,5-9-13,5-9-14,5-9-15,5-9-16,5-9-17,5-9-18,5-10-2,5-11-5, \\ & 5-11-6,5-11-10,5-11-11,5-11-12,5-11-23,5-11-24, \text { C-3, C-6, L-1 } \end{aligned}$ |
| detention facility | C-3, 3-5 |
| dewatering | $\begin{aligned} & 1-3,2-4,3-9,3-10,3-11,4-4,4-11,4-13,4-14,4-15,5-1-1,5-1-3,5-5-16,5-9-4, \\ & 5-9-9,5-9-11,5-11-3,5-11-7,5-11-12,5-11-13,5-11-31,5-11-36,5-11-44,5-13-1, \\ & 5-13-2,5-13-3,5-13-4,5-13-7,5-13-8,5-13-9,5-13-11,5-13-14,5-13-15,5-13-16, \\ & \text { C-3, C-7, F-2, L-1 } \end{aligned}$ |
| dewatering of earth materials | $1-3,3-11,5-1-3,5-11-44,5-13-1,5-13-7,5-13-14,5-13-15,5-13-16, \mathrm{C} 3$, L-1 |
| dike | $5-5-25,5-9-11,5-10-2,5-11-11,5-11-25,5-11-26,5-13-1$, C-2, C-3, F-4 |
| discharge | $1-3,2-4,3-7,3-8,3-9,4-2,4-3,5-2-5,5-5-21,5-6-1,5-6-2,5-6-3,5-6-18,5-6-19$, $5-6-20,5-6-22,5-7-1,5-7-2,5-7-3,5-7-4,5-7-7,5-7-9,5-7-13,5-8-2,5-8-5,5-8-6$, $5-8-8,5-9-2,5-9-4,5-9-10,5-9-11,5-10-1,5-10-2,5-10-3,5-10-6,5-10-7,5-11-6$, $5-11-7,5-11-10,5-11-11,5-11-23,5-11-24,5-11-35,5-13-1,5-13-2,5-13-3,5-13-4$, 5-13-7, 5-13-11, 5-13-12, 5-13-14, C-1, C-2, C-3, C-5, C-6, C-7, C-8, E-2, F-1, F-2, J-1, L-1 |


| disturbed area | $\begin{aligned} & 3-3,3-8,4-10,5-3-6,5-3-22,5-4-3,5-7-9,5-10-3,5-11-31,5-13-14, \text { A-2, B-1, B-2, } \\ & \text { C-3, F-6, L-1 } \end{aligned}$ |
| :---: | :---: |
| diversion | $\begin{aligned} & 1-1,1-3,3-3,3-11,4-1,4-5,4-9,4-10,4-11,4-12,4-13,4-14,5-1-3,5-2-6,5-2-7, \\ & 5-4-12,5-5-23,5-6-2,5-7-1,5-7-2,5-7-3,5-7-6,5-7-9,5-7-10,5-7-11,5-7-12,5-7-13, \\ & 5-7-14,5-8-8,5-9-2,5-10-2,5-10-3,5-11-5,5-13-2,5-13-7,5-13-14, \text { C-3, C-6, C-10, } \\ & \text { C-11, F-3, I-1, L-1 } \end{aligned}$ |
| DOT Drainage Manual | $\begin{aligned} & \text { 4-11, 5-5-16, 5-6-2, 5-6-16, 5-6-17, 5-6-20, 5-6-23, 5-6-29, 5-7-12, 5-10-11, A-1, C-3, } \\ & \text { J-1, J-2, J-3, L-1 } \end{aligned}$ |
| DOT Standard Specifications | $\begin{aligned} & 4-10,5-4-14,5-5-8,5-5-9,5-5-13,5-6-19,5-6-20,5-6-23,5-6-25,5-10-11,5-11-26 \text {, } \\ & 5-12-2, \text { C-3 } \end{aligned}$ |
| downstream | $\begin{aligned} & 2-7,3-6,3-7,3-8,3-9,4-9,4-12,4-13,5-5-9,5-5-16,5-5-18,5-6-16,5-6-17,5-6-18, \\ & 5-6-19,5-6-30,5-6-31,5-7-9,5-7-13,5-9-2,5-9-3,5-9-4,5-9-5,5-9-9,5-9-11,5-9-12, \\ & 5-10-6,5-10-7,5-10-12,5-11-7,5-11-8,5-11-10,5-11-11,5-11-12, \text { A-4, C-1, C-2, C-3, } \\ & \text { C-6, C-9, C-11, J-1, L-1 } \end{aligned}$ |
| drainage area | $\begin{aligned} & 3-9,4-10,5-3-1,5-5-2,5-5-20,5-5-21,5-5-23,5-6-2,5-6-18,5-6-20,5-6-21,5-7-1, \\ & 5-7-2,5-7-3,5-7-6,5-7-9,5-7-12,5-9-2,5-9-4,5-9-11,5-10-11,5-10-12,5-11-2, \\ & 5-11-4,5-11-5,5-11-6,5-11-7,5-11-20,5-11-22,5-11-24,5-11-25,5-11-27,5-11-30, \\ & 5-11-31,5-11-35,5-11-36,5-11-40,5-11-45, \text { C-3, C-8, C-11, J-1, J-2, L-1 } \end{aligned}$ |
| drainage coefficient | C-3 |
| drainageway | 5-10-1, 5-10-6, 5-10-11, 5-10-12, 5-10-14, 5-11-4, 5-11-13, C-2, C-3, C-9, C-11, L-1 |
| drop inlet | 5-9-5, 5-9-10, 5-11-10, 5-11-33, C-3 |
| drop inlet spillway | C-3 |
| drop spillway | 5-5-18, C-3 |
| dust control | 3-11, 4-9, 5-1-2, 5-2-1, 5-2-12, 5-2-13, C-3, L-1 |
| E\&S | $\begin{aligned} & 1-3,1-4,3-1,3-2,3-3,3-4,3-5,3-9,3-10,3-12,3-13,4-2,4-3,4-4,4-5,4-6,4-7, \\ & 4-8,4-9,4-10,4-12,5-2-7,5-2-8,5-2-12,5-3-24,5-4-4,5-4-13,5-5-16,5-5-20, \\ & 5-5-21,5-6-2,5-6-4,5-6-17,5-6-29,5-8-2,5-1-4,5-1-5,5-10-6,5-10-11,5-11-3 \\ & 5-11-5,5-11-25,5-11-41,5-13-2, \text { A-6, C-4, C-6, C-7, D-2, H-1, L-1 } \end{aligned}$ |
| E\&S measure | 3-2, 3-9, 3-13, 4-3, 4-4, 4-10, C-4 |
| embankment | $\begin{aligned} & 3-7,4-4,5-2-8,5-9-2,5-9-3,5-9-4,5-9-5,5-9-9,5-9-10,5-9-11,5-9-12,5-11-5, \\ & 5-11-6,5-11-7,5-11-8,5-11-9,5-11-10,5-11-11,5-11-12,5-11-14,5-11-25,5-11-26, \\ & 5-11-27,5-11-28, \text { C-1, C-2, C-3, C-4, C-10, J-1, L-1 } \end{aligned}$ |
| emergency spillway | $\begin{aligned} & 5-9-2,5-9-3,5-9-4,5-9-5,5-9-9,5-9-10,5-9-11,5-9-12,5-11-2,5-11-5,5-11-6, \\ & 5-11-7,5-11-8,5-11-10,5-11-11,5-11-12,5-11-14,5-11-19,5-11-23,5-11-24 \text {, } \\ & 5-13-16, \text { C-1, C-3, C-4, L-1 } \end{aligned}$ |
| erosion | $1-1,1-2,1-3,1-4,2-1,2-2,2-3,2-4,2-5,2-6,2-7,3-1,3-2,3-3,3-4,3-5,3-6,3-7$, 3-8, 3-9, 3-10, 3-11, 3-12, 3-13, 4-1, 4-2, 4-3, 4-4, 4-5, 4-6, 4-7, 4-8, 4-9, 4-10, 4-11, 4-12, 4-13, 4-14, 4-15, 4-16, 5-1-1, 5-1-2, 5-1-3, 5-1-4, 5-1-5, 5-1-6, 5-1-7, 5-1-8, $5-1-9,5-1-10,5-1-11,5-2-1,5-2-2,5-2-3,5-2-4,5-2-5,5-2-6,5-2-7,5-2-8,5-2-9$, $5-2-10,5-2-11,5-2-12,5-2-13,5-3-1,5-3-2,5-3-3,5-3-4,5-3-5,5-3-6,5-3-7,5-3-8$, $5-3-9,5-3-10,5-3-11,5-3-12,5-3-13,5-3-14,5-3-15,5-3-16,5-3-17,5-3-18,5-3-19$, $5-3-20,5-3-21,5-3-22,5-3-23,5-3-24,5-3-25,5-3-26,5-3-27,5-3-28,5-4-1,5-4-2$, $5-4-3,5-4-4,5-4-5,5-4-6,5-4-7,5-4-8,5-4-9,5-4-10,5-4-11,5-4-12,5-4-13,5-4-14$, $5-5-1,5-5-2,5-5-3,5-5-4,5-5-5,5-5-6,5-5-7,5-5-8,5-5-9,5-5-10,5-5-11,5-5-12$, $5-5-13,5-5-14,5-5-15,5-5-16,5-5-17,5-5-18,5-5-19,5-5-20,5-5-21,5-5-22,5-5-23$, $5-5-24,5-5-25,5-6-1,5-6-2,5-6-3,5-6-4,5-6-5,5-6-6,5-6-7,5-6-8,5-6-9,5-6-10$, $5-6-11,5-6-12,5-6-13,5-6-14,5-6-15,5-6-16,5-6-17,5-6-18,5-6-19,5-6-20,5-6-21$, $5-6-22,5-6-23,5-6-24,5-6-25,5-6-26,5-6-27,5-6-28,5-6-29,5-6-30,5-6-31,5-6-32$, $5-6-33,5-7-2,5-7-3,5-7-4,5-7-5,5-7-6,5-7-7,5-7-8,5-7-9,5-7-10,5-7-11,5-7-12$, $5-7-13,5-7-14,5-8-2,5-8-3,5-8-4,5-8-5,5-8-6,5-8-7,5-8-8,5-8-9,5-8-10,5-8-11$, $5-8-12,5-8-13,5-8-14,5-9-2,5-9-3,5-9-4,5-9-5,5-9-6,5-9-7,5-9-8,5-9-9,5-9-10$, $5-9-11,5-9-12,5-9-13,5-9-14,5-9-15,5-9-16,5-9-17,5-9-18,5-10-1,5-10-2,5-10-3$, $5-10-4,5-10-5,5-10-6,5-10-7,5-10-8,5-10-9,5-10-10,5-10-11,5-10-12,5-10-13$, $5-10-14,5-10-15,5-10-16,5-11-2,5-11-3,5-11-4,5-11-5,5-11-6,5-11-7,5-11-8$, |

5-11-9, 5-11-10, 5-11-11, 5-11-12, 5-11-13, 5-11-14, 5-11-15, 5-11-16, 5-11-17, $5-11-18,5-11-19,5-11-20,5-11-21,5-11-22,5-11-23,5-11-24,5-11-25,5-11-26$, 5-11-27, 5-11-28, 5-11-29, 5-11-30, 5-11-31, 5-11-32, 5-11-33, 5-11-34, 5-11-35, $5-11-36,5-11-37,5-11-38,5-11-39,5-11-40,5-11-41,5-11-42,5-11-43,5-11-44$, $5-11-45,5-11-46,5-12-2,5-12-3,5-12-4,5-13-1,5-13-2,5-13-3,5-13-4,5-13-5$, $5-13-6,5-13-7,5-13-8,5-13-9,5-13-10,5-13-11,5-13-12,5-13-13,5-13-14,5-13-15$, 5-13-16, A-1, A-2, A-3, A-4, A-5, A-6, B-1, B-2, C-1, C-2, C-3, C-4, C-5, C-6, C-7, C-8, C-9, C-10, C-11, D-1, D-2, D-3, E-1, E-2, E-3, E-4, F-1, F-2, F-3, F-4, F-5, F-6, G-1, G-2, G-3, G-4, G-5, H-1, H-2, H-3, I-1, I-2, I-3, J-1, J-2, J-3, K-1, L-1

## erosion and sediment control

$1-1,1-2,1-3,1-4,2-1,2-2,2-3,2-4,2-5,2-6,2-7,3-1,3-2,3-3,3-4,3-5,3-6,3-7$, $3-8,3-9,3-10,3-11,3-12,3-13,4-1,4-2,4-3,4-4,4-5,4-6,4-7,4-8,4-9,4-10,4-11$, 4-12, 4-13, 4-14, 4-15, 4-16, 5-1-2, 5-1-3, 5-1-4, 5-1-5, 5-1-6, 5-1-7, 5-1-8, 5-1-9, $5-1-10,5-1-11,5-2-2,5-2-3,5-2-4,5-2-5,5-2-6,5-2-7,5-2-8,5-2-9,5-2-10,5-2-11$, $5-2-12,5-2-13,5-3-2,5-3-3,5-3-4,5-3-5,5-3-6,5-3-7,5-3-8,5-3-9,5-3-10,5-3-11$, $5-3-12,5-3-13,5-3-14,5-3-15,5-3-16,5-3-17,5-3-18,5-3-19,5-3-20,5-3-21,5-3-22$, $5-3-23,5-3-24,5-3-25,5-3-26,5-3-27,5-3-28,5-4-2,5-4-3,5-4-4,5-4-5,5-4-6,5-4-7$, $5-4-8,5-4-9,5-4-10,5-4-11,5-4-12,5-4-13,5-4-14,5-5-2,5-5-3,5-5-4,5-5-5,5-5-6$, $5-5-7,5-5-8,5-5-9,5-5-10,5-5-11,5-5-12,5-5-13,5-5-14,5-5-15,5-5-16,5-5-17$, $5-5-18,5-5-19,5-5-20,5-5-21,5-5-22,5-5-23,5-5-24,5-5-25,5-6-2,5-6-3,5-6-4$, $5-6-5,5-6-6,5-6-7,5-6-8,5-6-9,5-6-10,5-6-11,5-6-12,5-6-13,5-6-14,5-6-15$, 5-6-16, 5-6-17, 5-6-18, 5-6-19, 5-6-20, 5-6-21, 5-6-22, 5-6-23, 5-6-24, 5-6-25, 5-6-26, $5-6-27,5-6-28,5-6-29,5-6-30,5-6-31,5-6-32,5-6-33,5-7-2,5-7-3,5-7-4,5-7-5$, $5-7-6,5-7-7,5-7-8,5-7-9,5-7-10,5-7-11,5-7-12,5-7-13,5-7-14,5-8-2,5-8-3,5-8-4$, $5-8-5,5-8-6,5-8-7,5-8-8,5-8-9,5-8-10,5-8-11,5-8-12,5-8-13,5-8-14,5-9-2,5-9-3$, $5-9-4,5-9-5,5-9-6,5-9-7,5-9-8,5-9-9,5-9-10,5-9-11,5-9-12,5-9-13,5-9-14,5-9-15$, $5-9-16,5-9-17,5-9-18,5-10-2,5-10-3,5-10-4,5-10-5,5-10-6,5-10-7,5-10-8,5-10-9$, $5-10-10,5-10-11,5-10-12,5-10-13,5-10-14,5-10-15,5-10-16,5-11-2,5-11-3,5-11-4$, 5-11-5, 5-11-6, 5-11-7, 5-11-8, 5-11-9, 5-11-10, 5-11-11, 5-11-12, 5-11-13, 5-11-14, 5-11-15, 5-11-16, 5-11-17, 5-11-18, 5-11-19, 5-11-20, 5-11-21, 5-11-22, 5-11-23, 5-11-24, 5-11-25, 5-11-26, 5-11-27, 5-11-28, 5-11-29, 5-11-30, 5-11-31, 5-11-32, 5-11-33, 5-11-34, 5-11-35, 5-11-36, 5-11-37, 5-11-38, 5-11-39, 5-11-40, 5-11-41, 5-11-42, 5-11-43, 5-11-44, 5-11-45, 5-11-46, 5-12-2, 5-12-3, 5-12-4, 5-13-1, 5-13-2, $5-13-3,5-13-4,5-13-5,5-13-6,5-13-7,5-13-8,5-13-9,5-13-10,5-13-11,5-13-12$, 5-13-13, 5-13-14, 5-13-15, 5-13-16, A-1, A-2, A-3, A-4, A-5, A-6, B-1, B-2, C-1, C-2, C-3, C-4, C-5, C-6, C-7, C-8, C-9, C-10, C-11, D-1, D-2, D-3, E-1, E-2, E-3, E-4, F-1, F-2, F-3, F-4, F-5, F-6, G-1, G-2, G-3, G-4, G-5, H-1, H-2, H-3, I-1, I-2, I-3, J-1, J-2, J-3, K-1, L-1
eutrophication
FHWA
filter

## floodplain

flume
freeboard
fugitive dust
gabions

## geotextile

## geotextile silt fence

2-7, C-4
5-6-19, 5-6-22, C-4
$3-11,5-1-2,5-1-3,5-1-7,5-3-12,5-3-17,5-5-4,5-5-9,5-5-10,5-5-12,5-5-13,5-5-20$, $5-6-18,5-6-20,5-7-4,5-7-6,5-7-7,5-7-9,5-8-3,5-8-6,5-8-7,5-9-10,5-9-11,5-10-7$, $5-10-16,5-11-1,5-11-3,5-11-4,5-11-8,5-11-10,5-11-14,5-11-36,5-11-45,5-11-46$, 5-13-1, 5-13-7, 5-13-14, C-4, C-5, C-11, L-1
$3-4,5-9-4,5-11-5,5-11-6$, C-4, C-6, F-4, F-6
4-1, 4-10, 4-11, 5-6-18, 5-6-19, 5-6-20, 5-6-28, C-2, C-4
$5-6-19,5-6-23,5-7-12,5-7-13,5-9-5,5-9-11,5-9-12,5-11-7,5-11-11,5-11-12$, C-4
5-2-12, 5-2-13, C-4
$3-11,4-5,4-7,5-1-2,5-5-1,5-5-2,5-5-3,5-5-4,5-5-13,5-5-14,5-5-15,5-5-20,5-10-7$, C-4, C-7, C-10, D-1, L-1
$3-11,4-3,4-4,4-6,4-7,4-8,4-9,4-10,4-12,4-14,4-15,5-1-3,5-1-5,5-1-7,5-2-12$, $5-5-9,5-5-10,5-5-12,5-5-13,5-5-20,5-5-23,5-6-3,5-6-18,5-6-19,5-6-21,5-6-30$, $5-6-31,5-7-3,5-7-4,5-7-6,5-8-5,5-8-6,5-8-14,5-10-3,5-10-12,5-10-16,5-11-1$, $5-11-2,5-11-3,5-11-4,5-11-29,5-11-30,5-11-31,5-11-34,5-11-35,5-11-36,5-11-37$, $5-11-38,5-11-39,5-11-40,5-11-45,5-11-46,5-12-2,5-12-3,5-13-7,5-13-14$, C-4, C-6, L-1

3-11, 4-9, 4-12, 4-14, 4-15, 5-1-3, 5-1-5, 5-7-3, 5-7-4, 5-7-6, 5-10-12, 5-11-1, 5-11-2, $5-11-30,5-11-31,5-11-34,5-11-35,5-11-36,5-11-45,5-11-46,5-13-7,5-13-14, \mathrm{C}-4, \mathrm{~L}-1$

| grade | $\begin{aligned} & 1-3,3-9,3-11,4-3,4-6,5-1-2,5-1-3,5-2-3,5-2-5,5-2-8,5-2-13,5-3-1,5-3-2,5-3-5, \\ & 5-3-6,5-3-13,5-3-22,5-4-14,5-5-1,5-5-2,5-5-13,5-5-16,5-5-18,5-5-19,5-5-23, \\ & 5-6-2,5-6-3,5-6-21,5-6-30,5-7-3,5-7-6,5-7-9,5-7-13,5-8-2,5-8-5,5-8-6,5-8-7, \\ & 5-8-8,5-9-11,5-10-2,5-10-3,5-10-7,5-10-12,5-11-11,5-11-40,5-12-2,5-12-3, \\ & 5-13-3,5-13-8,5-13-15, \text { C-1, C-2, C-4, C-5, C-11, L-1 } \end{aligned}$ |
| :---: | :---: |
| gradient | $\begin{aligned} & 2-4,2-5,2-6,5-2-5,5-2-7,5-5-1,5-5-10,5-6-16,5-7-7,5-7-9,5-11-4,5-11-30, \\ & 5-11-31,5-11-35,5-11-36, \text { C-1, C-3, C-4, C-5, C-11, L-1 } \end{aligned}$ |
| grading |  |
| gravel filter | C-4 |
| groundwater | $\begin{aligned} & 2-7,3-4,3-5,3-7,3-12,4-5,5-13-2,5-2-7,5-2-12,5-3-7,5-5-3,5-8-2,5-8-6, \mathrm{C}-1, \\ & \text { C-5, C-11, L-1 } \end{aligned}$ |
| grub | 5-2-8, 5-9-12, 5-11-12, 5-11-26, C-5 |
| gully erosion | 1-2, 2-2, 2-3, 3-10, 3-11, 5-5-18, 5-7-12, C-5, L-1 |
| hardpan | 5-2-3, C-5 |
| hardy | 5-3-4, 5-3-16, 5-3-17, 5-3-20, 5-3-24, C-5 |
| hay bale barrier | $\begin{aligned} & 3-11,4-9,5-1-3,5-7-3,5-7-4,5-7-6,5-10-12,5-11-1,5-11-2,5-11-4,5-11-30, \\ & 5-11-31,5-11-32,5-11-33,5-11-34,5-11-45,5-13-7,5-13-8, \mathrm{C}-5, \mathrm{~L}-1 \end{aligned}$ |
| head | 5-5-2, 5-5-18, 5-9-10, 5-9-11, 5-11-10, C-2, C-3, C-5, L-1 |
| head cutting | 5-5-2, 5-5-18, 5-9-11, C-2, C-5, L-1 |
| HEC 1 | C-5 |
| HEC 2 | C-5 |
| HEC 15 | 5-6-19, C-5 |
| hydraulic gradient | C-5 |
| hydroseeding | 5-3-2, 5-3-6, 5-3-7, 5-3-11, C-5 |
| impoundment | 5-7-3, 5-9-2, 5-11-3, 5-11-41, C-3, C-5, C-7, L-1 |
| infiltration rate | 5-3-7, C-5 |
| inland wetland | 3-3, 5-2-12, C-5, F-2, F-4, F-5, F-6, 5-8-2, 5-11-5, 5-13-2, 5-9-2 |
| internal drainage | 3-7, C-5 |
| invert elevation | C-5 |
| land grading | $\begin{aligned} & 3-5,3-11,4-2,4-5,5-1-2,5-2-1,5-2-5,5-2-6,5-2-7,5-2-8,5-2-9,5-3-2,5-3-6,5-13-2, \\ & \text { C-5, L-1 } \end{aligned}$ |
| landscape mulch | $\begin{aligned} & 1-3,3-11,5-1-2,5-1-4,5-2-12,5-3-1,5-3-22,5-3-23,5-4-1,5-4-2,5-4-8,5-4-9 \text {, } \\ & 5-4-14,5-5-21, \mathrm{C}-5, \mathrm{~L}-1 \end{aligned}$ |
| landscape planting | $\begin{aligned} & 3-11,5-1-2,5-2-2,5-3-1,5-3-16,5-3-17,5-3-18,5-3-19,5-3-20,5-3-21,5-3-22, \\ & 5-3-23,5-3-24,5-3-25,5-3-26,5-3-27,5-3-28,5-4-1,5-4-8,5-4-9,5-4-11, \text { C-5, L-1 } \end{aligned}$ |
| level spreader | 3-11, 4-9, 5-1-3, 5-10-1, 5-10-2, 5-10-3, 5-10-4, 5-10-5, 5-10-7, 5-11-45, C-5, L-1 |
| liming | 5-2-4, 5-3-2, 5-3-6, 5-3-14, C-5 |
| major storm | 3-12, 5-4-13, 5-5-16, 5-9-13, C-5 |
| Manning's formula | 5-6-2, 5-6-19, 5-8-2, 5-8-5, C-5 |
| meanders | 4-9, C-6 |
| mulch for seed | $\begin{aligned} & 1-3,3-11,4-9,5-1-2,5-2-3,5-2-12,5-3-1,5-3-3,5-3-6,5-3-7,5-4-1,5-4-2,5-4-3 \\ & 5-4-5,5-4-6,5-4-7,5-4-9,5-4-10,5-4-11,5-10-3, \text { C-6, L-1 } \end{aligned}$ |
| natural rate of erosion | C-6, 2-1 |
| NAVDOCS-7.1 | 5-8-6, C-6 |
| NPDES | 1-3, C-6 |


| NRCS | $\begin{aligned} & 1-2,5-3-6,5-6-2,5-6-17,5-6-29,5-7-12,5-9-3,5-9-4,5-11-6,5-11-11, \text { C-6, C-8, E-1, } \\ & \text { I-1, L-1 } \end{aligned}$ |
| :---: | :---: |
| orifice | 5-9-4, 5-11-7, C-5, C-6 |
| outfall or outlet | C-6 |
| outlet channel | 5-5-18, 5-8-7, C-6, L-1 |
| outlet protection | $\begin{aligned} & 3-11,4-2,4-9,5-1-3,5-2-7,5-5-8,5-5-9,5-5-16,5-5-20,5-5-21,5-6-3,5-6-20,5-6-21, \\ & 5-9-10,5-9-13,5-10-1,5-10-6,5-10-7,5-10-8,5-10-9,5-10-10,5-11-35,5-13-1, \\ & 5-13-3,5-13-4,5-13-5,5-13-6,5-13-7, \text { C-6, C-8, L-1 } \end{aligned}$ |
| owner of record | 3-12, 4-2, C-6 |
| P.A. | B-1, B-2, C-6 |
| P.L. | C-6 |
| peak discharge | 5-9-2, 5-9-4, 5-11-7, C-6 |
| perennial stream | 5-9-3, C-6 |
| permanent diversion | $\begin{aligned} & 3-11,4-5,5-1-3,5-2-7,5-4-12,5-7-1,5-7-2,5-7-3,5-7-6,5-7-9,5-7-10,5-7-12, \\ & 5-7-13,5-7-14,5-8-8, \mathrm{C}-6, \mathrm{~L}-1 \end{aligned}$ |
| permanent lined waterway | $\begin{aligned} & 3-11,4-7,5-1-2,5-5-9,5-5-20,5-6-1,5-6-16,5-6-17,5-6-18,5-6-19,5-6-20,5-6-21, \\ & 5-6-22,5-6-23,5-6-24,5-6-25,5-6-26,5-6-27,5-6-28,5-7-2,5-7-6,5-7-12,5-7-13, \\ & \text { C-5, C-6, L-1 } \end{aligned}$ |
| permanent seeding | $3-11,4-6,4-7,4-8,4-9,5-1-2,5-2-2,5-2-3,5-2-12,5-3-1,5-3-4,5-3-5,5-3-6,5-3-7$, $5-3-8,5-3-9,5-3-10,5-3-11,5-4-1,5-4-3,5-4-5,5-4-6,5-4-7,5-6-3,5-6-4,5-7-12$, $5-7-13,5-9-12,5-11-12,5-11-26,5-11-45$, C-6, L-1 |
| permanent turf |  |
| reinforcement mats | 1-3, 5-4-12, 5-4-13 |
| permanent pool | 5-9-11, 5-11-6, C-6 |
| permanent slope drain | 3-11, 5-1-2, 5-5-1, 5-5-2, 5-5-16, 5-5-17, 5-5-20, C-6, L-1 |
| permeability | 2-4, 2-5, 3-8, 3-10, 4-4, 5-2-12, 5-8-2, 5-8-6, 5-11-35, C-6, H-1, I-2, L-1 |
| permissible velocity | $5-6-2,5-6-3,5-6-19,5-6-22,5-6-23,5-9-11,5-11-11$, C-6 |
| pH | 5-2-2, 5-2-3, 5-2-4, 5-3-6, 5-3-24, 5-3-25, 5-3-26, 5-3-27, 5-5-13, 5-11-9, C-6, L-1 |
| phase | $3-3,3-7,3-8,3-12,4-2,4-3,4-4,4-15,5-7-9$, C-6, C-8, F-6 |
| phreatic line | 5-11-10, C-6 |
| piping | $\begin{aligned} & 5-5-3,5-5-10,5-5-23,5-6-18,5-6-20,5-6-21,5-8-6,5-8-7,5-8-8,5-8-12,5-8-13 \\ & 5-8-14,5-9-10,5-9-11,5-11-8, \text { C-1, C-7, L-1 } \end{aligned}$ |
| planting stock | 5-3-16, C-7 |
| portable sediment tank | $1-3,3-11,5-1-3,5-13-1,5-13-2,5-13-3,5-13-11,5-13-12,5-13-13$, C-7, L-1 |
| postconstruction |  |
| stormwater management | 1-4 |
| precast concrete | 5-5-3, C-7, L-1 |
| preconstruction meeting | 4-2, 4-3, 4-4, 5-1-4, C-7 |
| principal spillway | $\begin{aligned} & 5-9-4,5-9-5,5-11-6,5-11-7,5-11-8,5-11-9,5-11-10,5-11-11,5-11-12,5-11-23, \\ & 5-11-24, \text { C-4, C-7 } \end{aligned}$ |
| pump intake and |  |
| outlet protection | 3-11, 5-1-3, 5-13-1, 5-13-3, 5-13-4, 5-13-5, 5-13-6, 5-13-7, L-1 |
| pumping settling basin | $\begin{aligned} & 1-3,3-11,4-12,5-1-3,5-11-30,5-12-2,5-13-1,5-13-4,5-13-7,5-13-8,5-13-9 \text {, } \\ & 5-13-10,5-13-11, \text { C-7, L-1 } \end{aligned}$ |
| pure live seed | 5-3-6, 5-3-11, C-7 |
| raindrop erosion | 2-2, C-7 |


| rainfall amount | ```3-12, 5-3-3, 5-3-7, 5-3-14, 5-4-4, 5-4-7, 5-4-11, 5-4-13, 5-5-16, 5-5-21, 5-5-23, 5-6-4, 5-6-17, 5-6-21, 5-7-7, 5-7-13, 5-9-13, 5-10-3, 5-10-12, 5-11-13, 5-11-27, 5-11-31, 5-11-36, 5-11-46, C-7``` |
| :---: | :---: |
| rainfall frequency | 2-4, C-7 |
| rainfall intensity | 2-4, C-7 |
| reinforced concrete | 5-6-29, 5-9-4, 5-11-7, C-7 |
| retaining wall | 5-5-1, 5-5-2, 5-5-3, 5-5-4, 5-5-5, 5-5-6, 5-5-7, С-4, C-7 |
| retention facility | C-7 |
| revetment | 5-5-15, 5-5-20, 5-10-7, C-7, C-10, L-1 |
| rill | $\begin{aligned} & 1-2,2-2,2-3,3-10,3-11,5-3-3,5-4-4,5-4-9,5-4-10,5-6-4,5-7-12,5-7-13, \mathrm{C}-7, \mathrm{C}-10, \\ & \mathrm{I}-1, \mathrm{I}-2 \end{aligned}$ |
| rill erosion | 1-2, 2-2, 2-3, 3-10, 3-11, 5-3-3, 5-4-4, 5-4-9, 5-4-10, 5-6-4, 5-7-13, C-7, C-10, I-2 |
| riparian land | C-7 |
| riprap | $\begin{aligned} & 3-11,4-5,4-7,4-9,4-11,4-14,5-1-2,5-3-12,5-4-14,5-5-1,5-5-2,5-5-8,5-5-9, \\ & 5-5-10,5-5-11,5-5-12,5-5-13,5-5-20,5-5-25,5-6-18,5-6-19,5-6-20,5-6-21,5-6-23, \\ & 5-6-25,5-6-30,5-7-9,5-9-3,5-9-10,5-9-11,5-10-1,5-10-3,5-10-6,5-10-7,5-10-9, \\ & 5-10-10,5-11-10,5-11-14,5-11-26,5-11-28,5-11-29, \text { C-4, C-7, C-10, D-2, L-1 } \end{aligned}$ |
| riser | $5-9-3,5-9-4,5-9-9,5-11-7,5-11-8,5-11-10,5-11-14,5-11-15, ~ C-3, ~ C-8 ~$ |
| root ball | 5-3-20, 5-3-22, C-8 |
| root zone | 5-1-1, 5-1-2, 5-1-3, 5-1-4, 5-1-6, 5-2-2, C-8, L-1 |
| roughness coefficient | 5-6-22, 5-6-25, 5-8-5, C-8 |
| runoff | $\begin{aligned} & 1-2,1-4,2-2,2-5,2-6,2-7,3-1,3-5,3-6,3-7,3-8,3-9,3-11,4-5,4-9,5-1-2,5-2-4, \\ & 5-2-5,5-2-7,5-2-8,5-2-10,5-3-3,5-3-7,5-3-1-5-3-16,5-4-4,5-4-9,5-4-14,5-5-1, \\ & 5-5-8,5-5-13,5-5-16,5-5-20,5-5-23,5-6-2,5-6-17,5-6-18,5-6-19,5-7-1,5-7-3, \\ & 5-7-4,5-7-6,5-7-9,5-7-10,5-7-12,5-8-2,5-8-8,5-9-2,5-9-3,5-9-4,5-9-11, \text { A-2, A-3, } \\ & \text { A-4, B-1, 5-10-1, 5-10-2, 5-10-3, 5-10-11, 5-11-4, 5-11-5, 5-11-6, 5-11-7, 5-11-11, } \\ & 5-11-24,5-11-25,5-11-31,5-11-34,5-11-37,5-11-40,5-11-45,5-11-46,5-12-3, \text { C-1, } \\ & \text { C-3, C-4, C-5, C-7, C-8, C-9, C-10, C-11, I-1, I-2, I-3, J-1, L-1 } \end{aligned}$ |
| RUSLE | 2-4, A-1, C-8, D-2, I-1, I-2, I-3 |
| sand | $\begin{aligned} & 2-4,2-7,4-5,4-15,5-1-7,5-2-3,5-3-2,5-3-5,5-3-6,5-3-8,5-3-11,5-3-25,5-3-26, \\ & 5-6-3,5-6-20,5-8-5,5-8-6,5-9-10,5-9-12,5-10-6,5-11-7,5-11-8,5-11-12,5-11-22, \\ & 5-11-24,5-12-2,5-12-3, \text { C-1, C-2, C-4, C-8, C-9, F-2, H-1, H-3, I-2 } \end{aligned}$ |
| scale | $\begin{aligned} & 3-5,3-6,3-12,4-6,4-7,5-5-4,5-7-8,5-11-15,5-11-29,5-11-33, \text { A-3, A-5, C-6, C-8, } \\ & \text { G-1, G-4 } \end{aligned}$ |
| scarify | 5-2-8, 5-3-7, C-8 |
| scour | $\begin{aligned} & 4-16,5-5-3,5-5-12,5-6-3,5-6-20,5-6-21,5-9-9,5-9-10,5-9-13,5-10-1,5-10-6, \\ & 5-11-8,5-11-10,5-13-7, \text { C-1, C-6, C-8, D-3 } \end{aligned}$ |
| sediment load | 2-6, 5-7-10, 5-11-6, C-1, C-8, C-9, I-1 |
| sedimentation | $\begin{aligned} & 1-1,1-2,1-3,2-1,2-5,2-6,2-7,3-3,3-5,3-7,3-8,3-9,3-13,4-12,5-1-1,5-2-8,5-3-2, \\ & 5-3-5,5-3-14,5-4-10,5-6-2,5-7-12,5-9-2,5-9-4,5-9-5,5-11-27,5-11-30,5-11-35, \\ & \text { A-1, A-2, A-3, A-4, A-6, B-1, B-2, C-8, D-2, F-2, F-3, F-4, I-1, L-1 } \end{aligned}$ |
| sedimentation basin | 3-8, C-8 |
| seeding | $\begin{aligned} & 3-11,4-3,4-4,4-6,4-7,4-8,4-9,4-10,5-1-2,5-2-1,5-2-2,5-2-3,5-2-4,5-2-8,5-2-11, \\ & 5-2-12,5-3-1,5-3-2,5-3-3,5-3-4,5-3-5,5-3-6,5-3-7,5-3-8,5-3-9,5-3-10,5-3-11, \\ & 5-3-12,5-4-1,5-4-2,5-4-3,5-4-4,5-4-5,5-4-6,5-4-7,5-4-11,5-5-3,5-6-3,5-6-4, \\ & 5-7-9,5-7-12,5-7-13,5-9-12,5-11-12,5-11-26,5-11-45, \text { C-6, C-8, C-10, L-1 } \end{aligned}$ |
| seepage | $4-4,4-5,4-8,5-2-5,5-2-7,5-4-14,5-5-1,5-5-3,5-5-8,5-5-10,5-6-18,5-7-12,5-8-4$, $5-8-6,5-8-8,5-9-10,5-9-11,5-9-12,5-11-8,5-11-10,5-11-12,5-11-25$, C-1, C-7, C-8, L-1 |

## settling efficiency

## sheet erosion

sheet flow

## side slope

silt

## slash <br> slope

3-7, 3-8, 3-12, 3-13, 4-1, 4-2, 4-3, 4-4, 4-5, 4-10, 4-11, 4-12, 4-13, 5-4-13, 5-5-3, $5-5-8,5-5-16,5-5-20,5-6-2,5-7-2,5-9-3$, A-2, 5-11-5, 5-11-25, A-3, C-8, G-1, G-4, I-2

5-11-1, C-8
$2-2,2-3,3-10,5-2-10, C-8, C-9$
$5-4-3,5-4-5,5-7-6,5-7-9,5-7-12,5-10-2,5-10-3, \mathrm{C}-8$, L-1
$5-2-6,5-2-7,5-6-20,5-10-2$, C-8
$2-4,2-5,3-8,3-11,4-3,4-4,4-5,4-9,4-12,4-14,4-15,5-1-3,5-1-5,5-2-3,5-2-12$, $5-3-2,5-3-5,5-3-6,5-5-23,5-6-3,5-7-3,5-7-4,5-7-6,5-7-9,5-8-5,5-8-6,5-10-6$, $5-10-12,5-11-1,5-11-2,5-11-3,5-11-4,5-11-7,5-11-12,5-11-24,5-11-30,5-11-31$, $5-11-34,5-11-35,5-11-36,5-11-37,5-11-40,5-11-41,5-11-42,5-11-45,5-11-46$, 5-13-7, 5-13-14, 5-13-16, C-1, C-4, C-8, C-9, H-1, H-3, I-2, I-3, L-1

4-2, 4-3, C-8
$1-3,2-4,2-5,2-7,3-5,3-7,3-10,3-11,4-1,4-2,4-3,4-4,4-5,4-6,4-7,4-8,4-9,4-10$, $4-16,5-1-2,5-2-1,5-2-3,5-2-5,5-2-6,5-2-7,5-2-8,5-2-9,5-2-10,5-2-11,5-2-12$, $5-3-2,5-3-5,5-3-7,5-3-12,5-3-13,5-4-1,5-4-3,5-4-4,5-4-8,5-4-9,5-4-14,5-5-1$, $5-5-2,5-5-3,5-5-8,5-5-10,5-5-12,5-5-16,5-5-17,5-5-20,5-5-21,5-5-23,5-5-24$, $5-5-25,5-6-2,5-6-3,5-6-5,5-6-18,5-6-19,5-6-20,5-6-21,5-6-22,5-6-23,5-6-30$, $5-7-2,5-7-3,5-7-4,5-7-6,5-7-8,5-7-9,5-7-12,5-7-13,5-8-2,5-8-5,5-8-6,5-8-8$, $5-9-5,5-9-10,5-9-11,5-9-12,5-10-2,5-10-3,5-10-14,5-10-15,5-11-3,5-11-4$, 5-11-10, 5-11-14, 5-11-22, 5-11-24, 5-11-26, 5-11-30, 5-11-31, 5-11-32, 5-11-33, 5-11-34, 5-11-35, 5-11-36, 5-11-37, 5-11-38, 5-11-40, 5-11-45, 5-11-46, 5-12-2, 5-13-14, C-1, C-2, C-4, C-5, C-6, C-7, C-8, C-9, C-10, C-11, D-2, I-1, I-2, I-3, L-1

4-6, 5-2-3, C-8
3-11, 4-3, 4-4, 5-1-2, 5-2-2, 5-2-4, 5-2-11, 5-2-12, 5-3-1, 5-3-5, 5-3-12, 5-3-13, 5-3-14, $5-3-15,5-4-1,5-6-2,5-6-3,5-6-4,5-7-13,5-9-11,5-11-10,5-11-12,5-11-45$, C-8, L-1
$1-1,1-2,1-3,1-4,2-1,2-2,2-3,2-4,2-5,2-6,2-7,3-1,3-2,3-3,3-4,3-5,3-6,3-7$, $3-8,3-9,3-10,3-11,3-12,3-13,4-1,4-2,4-3,4-4,4-5,4-6,4-7,4-8,4-9,4-10,4-11$, 4-12, 4-13, 4-14, 4-15, 4-16, 5-1-1, 5-1-2, 5-1-3, 5-1-4, 5-1-5, 5-1-6, 5-1-7, 5-1-8, $5-1-9,5-1-10,5-1-11,5-2-1,5-2-2,5-2-3,5-2-4,5-2-5,5-2-6,5-2-7,5-2-8,5-2-9$, $5-2-10,5-2-11,5-2-12,5-2-13,5-3-1,5-3-2,5-3-3,5-3-4,5-3-5,5-3-6,5-3-7,5-3-8$, $5-3-9,5-3-10,5-3-11,5-3-12,5-3-13,5-3-14,5-3-15,5-3-16,5-3-17,5-3-18,5-3-19$, $5-3-20,5-3-21,5-3-22,5-3-23,5-3-24,5-3-25,5-3-26,5-3-27,5-3-28,5-4-1,5-4-2$, $5-4-3,5-4-4,5-4-5,5-4-6,5-4-7,5-4-8,5-4-9,5-4-10,5-4-11,5-4-12,5-4-13,5-4-14$, $5-5-1,5-5-2,5-5-3,5-5-4,5-5-5,5-5-6,5-5-7,5-5-8,5-5-9,5-5-10,5-5-11,5-5-12$, $5-5-13,5-5-14,5-5-15,5-5-16,5-5-17,5-5-18,5-5-19,5-5-20,5-5-21,5-5-22,5-5-23$, $5-5-24,5-5-25,5-6-2,5-6-3,5-6-4,5-6-5,5-6-6,5-6-7,5-6-8,5-6-9,5-6-10,5-6-11$, $5-6-12,5-6-13,5-6-14,5-6-15,5-6-16,5-6-17,5-6-18,5-6-19,5-6-20,5-6-21,5-6-22$, $5-6-23,5-6-24,5-6-25,5-6-26,5-6-27,5-6-28,5-6-29,5-6-30,5-6-31,5-6-32,5-6-33$, $5-7-2,5-7-3,5-7-4,5-7-5,5-7-6,5-7-7,5-7-8,5-7-9,5-7-10,5-7-11,5-7-12,5-7-13$, $5-7-14,5-8-2,5-8-3,5-8-4,5-8-5,5-8-6,5-8-7,5-8-8,5-8-9,5-8-10,5-8-11,5-8-12$, $5-8-13,5-8-14,5-9-2,5-9-3,5-9-4,5-9-5,5-9-6,5-9-7,5-9-8,5-9-9,5-9-10,5-9-11$, $5-9-12,5-9-13,5-9-14,5-9-15,5-9-16,5-9-17,5-9-18,5-10-2,5-10-3,5-10-4,5-10-5$, $5-10-6,5-10-7,5-10-8,5-10-9,5-10-10,5-10-11,5-10-12,5-10-13,5-10-14,5-10-15$, $5-10-16,5-11-2,5-11-3,5-11-4,5-11-5,5-11-6,5-11-7,5-11-8,5-11-9,5-11-10$, 5-11-11, 5-11-12, 5-11-13, 5-11-14, 5-11-15, 5-11-16, 5-11-17, 5-11-18, 5-11-19, 5-11-20, 5-11-21, 5-11-22, 5-11-23, 5-11-24, 5-11-25, 5-11-26, 5-11-27, 5-11-28, $5-11-29,5-11-30,5-11-31,5-11-32,5-11-33,5-11-34,5-11-35,5-11-36,5-11-37$, 5-11-38, 5-11-39, 5-11-40, 5-11-41, 5-11-42, 5-11-43, 5-11-44, 5-11-45, 5-11-46, $5-12-1,5-12-2,5-12-3,5-12-4,5-13-1,5-13-2,5-13-3,5-13-4,5-13-5,5-13-6,5-13-7$, $5-13-8,5-13-9,5-13-10,5-13-11,5-13-12,5-13-13,5-13-14,5-13-15,5-13-16, ~ А-1$, A-2, A-3, A-4, A-5, A-6, B-1, B-2, C-1, C-2, C-3, C-4, C-5, C-6, C-7, C-8, C-9, C-10, C-11, D-1, D-2, D-3, E-1, E-2, E-3, E-4, F-1, F-2, F-3, F-4, F-5, F-6, G-1, G-2, G-3, G-4, G-5, H-1, H-2, H-3, I-1, I-2, I-3, J-1, J-2, J-3, K-1, L-1

C-9

| soil erosion | $1-1,1-2,1-3,1-4,2-1,2-2,2-3,2-4,2-5,2-6,2-7,3-1,3-2,3-3,3-4,3-5,3-6,3-7$, $3-8,3-9,3-10,3-11,3-12,3-13,4-1,4-2,4-3,4-4,4-5,4-6,4-7,4-8,4-9,4-10,4-11$, 4-12, 4-13, 4-14, 4-15, 4-16, 5-1-2, 5-1-3, 5-1-4, 5-1-5, 5-1-6, 5-1-7, 5-1-8, 5-1-9, $5-1-10,5-1-11,5-2-2,5-2-3,5-2-4,5-2-5,5-2-6,5-2-7,5-2-8,5-2-9,5-2-10,5-2-11$, $5-2-12,5-2-13,5-3-2,5-3-3,5-3-4,5-3-5,5-3-6,5-3-7,5-3-8,5-3-9,5-3-10,5-3-11$, $5-3-12,5-3-13,5-3-14,5-3-15,5-3-16,5-3-17,5-3-18,5-3-19,5-3-20,5-3-21,5-3-22$, $5-3-23,5-3-24,5-3-25,5-3-26,5-3-27,5-3-28,5-4-2,5-4-3,5-4-4,5-4-5,5-4-6,5-4-7$, $5-4-8,5-4-9,5-4-10,5-4-11,5-4-12,5-4-13,5-4-14,5-5-1,5-5-2,5-5-3,5-5-4,5-5-5$, $5-5-6,5-5-7,5-5-8,5-5-9,5-5-10,5-5-11,5-5-12,5-5-13,5-5-14,5-5-15,5-5-16$, $5-5-17,5-5-18,5-5-19,5-5-20,5-5-21,5-5-22,5-5-23,5-5-24,5-5-25,5-6-2,5-6-3$, $5-6-4,5-6-5,5-6-6,5-6-7,5-6-8,5-6-9,5-6-10,5-6-11,5-6-12,5-6-13,5-6-14,5-6-15$, $5-6-16,5-6-17,5-6-18,5-6-19,5-6-20,5-6-21,5-6-22,5-6-23,5-6-24,5-6-25,5-6-26$, $5-6-27,5-6-28,5-6-29,5-6-30,5-6-31,5-6-32,5-6-33,5-7-2,5-7-3,5-7-4,5-7-5$, $5-7-6,5-7-7,5-7-8,5-7-9,5-7-10,5-7-11,5-7-12,5-7-13,5-7-14,5-8-2,5-8-3,5-8-4$, $5-8-5,5-8-6,5-8-7,5-8-8,5-8-9,5-8-10,5-8-11,5-8-12,5-8-13,5-8-14,5-9-2,5-9-3$, $5-9-4,5-9-5,5-9-6,5-9-7,5-9-8,5-9-9,5-9-10,5-9-11,5-9-12,5-9-13,5-9-14,5-9-15$, 5-9-16, 5-9-17, 5-9-18, 5-10-2, 5-10-3, 5-10-4, 5-10-5, 5-10-6, 5-10-7, 5-10-8, 5-10-9, 5-10-10, 5-10-11, 5-10-12, 5-10-13, 5-10-14, 5-10-15, 5-10-16, 5-11-2, 5-11-3, 5-11-4, $5-11-5,5-11-6,5-11-7,5-11-8,5-11-9,5-11-10,5-11-11,5-11-12,5-11-13,5-11-14$, 5-11-15, 5-11-16, 5-11-17, 5-11-18, 5-11-19, 5-11-20, 5-11-21, 5-11-22, 5-11-23, $5-11-24,5-11-25,5-11-26,5-11-27,5-11-28,5-11-29,5-11-30,5-11-31,5-11-32$, 5-11-33, 5-11-34, 5-11-35, 5-11-36, 5-11-37, 5-11-38, 5-11-39, 5-11-40, 5-11-41, $5-11-42,5-11-43,5-11-44,5-11-45,5-11-46,5-12-2,5-12-3,5-12-4,5-13-2,5-13-3$, $5-13-4,5-13-5,5-13-6,5-13-7,5-13-8,5-13-9,5-13-10,5-13-11,5-13-12,5-13-13$, 5-13-14, 5-13-15, 5-13-16, A-1, A-2, A-3, A-4, A-5, A-6, B-1, B-2, C-1, C-2, C-3, C-4, C-5, C-6, C-7, C-8, C-9, C-10, C-11, D-1, D-2, D-3, E-1, E-2, E-3, E-4, F-1, F-2, F-3, F-4, F-5, F-6, G-1, G-2, G-3, G-4, G-5, H-1, H-2, H-3, I-1, I-2, I-3, J-1, J-2, J-3, K-1, L-1 |
| :---: | :---: |
| soil horizon | C-5, C-9 |
| spillway | $\begin{aligned} & 5-5-18,5-9-2,5-9-3,5-9-4,5-9-5,5-9-9,5-9-10,5-9-11,5-9-12,5-10-6,5-11-2, \\ & 5-11-5,5-11-6,5-11-7,5-11-8,5-11-9,5-11-10,5-11-11,5-11-12,5-11-14,5-11-19, \\ & 5-11-23,5-11-24,5-13-1,5-13-8,5-13-16, \text { C-1, C-2, C-3, C-4, C-7, C-9, C-11, L-1 } \end{aligned}$ |
| spoil | 5-2-8, 5-3-5, 5-3-8, 5-9-12, 5-11-12, C-3, C-9 |
| spreader | 3-11, 4-9, 5-1-3, 5-10-1, 5-10-2, 5-10-3, 5-10-4, 5-10-5, 5-10-7, 5-11-45, C-5, C-9, L-1 |
| standpipe | 5-13-4, C-9 |
| stilling basin | 5-9-10, 5-10-7, 5-10-10, C-9 |
| stone check dam | $\begin{aligned} & 1-3,3-11,4-9,5-1-3,5-10-1,5-10-11,5-10-12,5-10-13,5-10-14,5-10-15,5-10-16, \\ & 5-11-2,5-11-3,5-11-30,5-11-31,5-11-35,5-11-46, \text { C-9, L-1 } \end{aligned}$ |
| stone slope protection | $\begin{aligned} & 1-3,3-11,4-6,5-1-2,5-2-10,5-2-12,5-4-1,5-4-4,5-4-8,5-4-9,5-4-14,5-10-3 \text {, } \\ & 5-11-26, \text { C-9, L-1 } \end{aligned}$ |
| stormwater | $\begin{aligned} & 1-2,1-3,1-4,2-7,3-6,3-7,3-9,5-2-5,5-5-16,5-5-23,5-6-16,5-9-3,5-9-4,5-11-2, \\ & 5-11-5, \text { C-3, C-7, C-9, C-10, D-1, F-2, F-6, L-1 } \end{aligned}$ |
| stormwater runoff | C-9, 5-5-16 |
| subgrade | 4-3, 4-10, 5-2-3, 5-2-4, 5-5-4, 5-5-12, 5-6-18, 5-6-21, 5-11-38, C-9 |
| substrate | 2-7, C-9 |
| subsurface drain | $\begin{aligned} & 3-11,4-5,4-6,4-7,4-8,5-1-3,5-1-7,5-2-7,5-4-14,5-6-2,5-6-20,5-8-1,5-8-2,5-8-3, \\ & 5-8-4,5-8-5,5-8-6,5-8-7,5-8-8,5-8-9,5-8-10,5-8-11,5-8-12,5-8-13,5-8-14, \text { C-2, } \\ & C-5, \text { C-9, C-11 } \end{aligned}$ |
| sump | 5-13-3, 5-13-4, 5-13-5, C-5, C-9 |
| surface roughening | 1-3, 5-2-1, 5-2-3, 5-2-8, 5-2-10, 5-2-11, 5-3-2, 5-3-7, C-9, L-1 |
| surface runoff | 1-2, 2-7, 5-2-5, 5-2-7, 5-3-12, 5-8-2, C-5, C-9, C-10, I-2, L-1 |
| surface water | $\begin{aligned} & 2-7,3-7,4-3,5-2-5,5-2-7,5-3-2,5-3-6,5-5-2,5-5-20,5-5-23,5-6-18,5-7-12,5-8-7, \\ & 5-8-8,5-11-30,5-13-7,5-13-14, \text { C-2, C-3, C-7, C-8, C-9, F-3, L-1 } \end{aligned}$ |
| suspended load | 2-6, C-9 |


| swale | 5-4-1, 5-6-2, 5-11-4, 5-11-35, 5-11-36, 5-11-39, C-9, C-11, L-1 |
| :---: | :---: |
| SWCD | C-9, E-3, E-4 |
| tackifier | 5-2-13, 5-4-2, 5-4-4, 5-4-6, 5-4-7, C-9 |
| tacking | C-9 |
| tailwater | 5-5-16, 5-6-18, 5-10-7, 5-10-11, C-9 |
| temporary diversion | $\begin{aligned} & 3-11,4-9,4-11,5-1-3,5-5-23,5-6-2,5-7-1,5-7-2,5-7-3,5-7-9,5-7-10,5-7-11,5-10-2, \\ & 5-13-14, \mathrm{C}-10, \mathrm{~L}-1 \end{aligned}$ |
| temporary erosion control blankets | 1-3, 5-3-7, 5-4-4, 5-4-10, 5-4-11, 5-7-9, 5-10-3 |
| temporary fill berm | 3-11, 5-1-3, 5-2-5, 5-2-8, 5-7-1, 5-7-2, 5-7-3, 5-7-4, 5-7-5, C-10, L-1 |
| temporary lined channel | 3-11, 4-9, 5-1-2, 5-5-20, 5-6-1, 5-6-16, 5-6-17, C-10, L-1 |
| temporary lined chute | 3-11, 4-4, 5-1-2, 5-5-1, 5-5-2, 5-5-16, 5-5-20, 5-5-21, 5-5-22, 5-7-3, C-10, L-1 |
| temporary pipe slope drain | $\begin{aligned} & 3-11,4-4,5-1-2,5-2-5,5-5-1,5-5-2,5-5-16,5-5-20,5-5-23,5-5-24,5-5-25,5-7-3 \\ & 5-7-4, \text { C-10, L-1 } \end{aligned}$ |
| temporary sediment basin | $\begin{aligned} & 3-11,5-1-3,5-7-1,5-9-2,5-10-1,5-10-11,5-11-1,5-11-2,5-11-5,5-11-6,5-11-7, \\ & 5-11-8,5-11-9,5-11-10,5-11-11,5-11-12,5-11-13,5-11-14,5-11-15,5-11-16, \\ & 5-11-17,5-11-18,5-11-19,5-11-20,5-11-21,5-11-22,5-11-23,5-11-24,5-11-25, \\ & 5-11-44, \text { C-10, L-1 } \end{aligned}$ |
| temporary sediment trap | $\begin{aligned} & 1-3,3-11,5-1-3,5-7-4,5-7-6,5-7-9,5-10-1,5-10-11,5-11-1,5-11-5,5-11-25, \\ & 5-11-26,5-11-27,5-11-28,5-11-29,5-11-30, \mathrm{C}-10, \text { L-1 } \end{aligned}$ |
| temporary seeding | $\begin{aligned} & 3-11,4-9,5-1-2,5-2-3,5-2-8,5-2-12,5-3-1,5-3-2,5-3-3,5-3-4,5-4-3,5-4-5,5-4-6, \\ & 5-4-7,5-7-9,5-9-12,5-11-12,5-11-26, \text { C-10, L-1 } \end{aligned}$ |
| temporary soil protection | $\begin{aligned} & 1-3,3-11,4-9,5-1-2,5-2-3,5-2-12,5-4-1,5-4-2,5-4-3,5-4-4,5-4-10,5-4-11,5-5-21, \\ & \text { C-10, L-1 } \end{aligned}$ |
| temporary stream crossing | $\begin{aligned} & 3-11,4-9,4-11,4-12,4-14,5-1-2,5-6-1,5-6-29,5-6-30,5-6-31,5-6-32,5-6-33,5-7-2 \text {, } \\ & 5-7-6, \text { C-10, L-1 } \end{aligned}$ |
| terrace | 2-5, 3-6, 5-10-2, C-10, I-1 |
| test pit | 3-10, 3-12, C-10 |
| three dimensional | 5-4-12, 5-6-2, 5-6-3, C-10 |
| geosynthetic | 5-6-2, 5-6-3, 5-11-42, C-10 |
| turf reinforcement | $\begin{aligned} & 1-3,3-11,5-1-2,5-3-1,5-3-7,5-3-12,5-4-1,5-4-12,5-4-13,5-5-21,5-6-1,5-6-2, \\ & 5-6-3,5-10-3, \text { C-10, L-1 } \end{aligned}$ |
| tidal wetland | 3-4, 3-13, C-10, F-2 |
| time of concentration | 5-6-2, 5-9-2, C-10 |
| topsoiling | $\begin{aligned} & 3-11,4-6,4-7,4-8,5-1-2,5-2-1,5-2-2,5-2-3,5-2-4,5-2-8,5-3-1,5-3-5,5-3-6, \\ & 5-3-13,5-7-12, \text { C-10, L-1 } \end{aligned}$ |
| total suspended solids (TTS) | C-10 |
| TR-20 | C-10 |
| TR-55 | 5-11-6, 5-11-10, C-10 |
| tracking | 5-2-3, 5-2-10, 5-2-11, 5-3-2, 5-6-29, 5-12-2, 5-12-3, C-2, C-10 |
| trap efficiency | 5-11-1, 5-11-6, 5-11-22, 5-11-24, C-10 |
| trash rack | 5-9-5, 5-9-6, 5-9-7, 5-9-8, 5-11-7, 5-11-8, 5-11-17, C-11 |
| tree protection | $\begin{aligned} & 3-11,4-2,4-3,4-4,5-1-1,5-1-2,5-1-3,5-1-4,5-1-5,5-1-6,5-1-7,5-1-8,5-1-9, \\ & 5-1-10,5-1-11,5-4-9, \mathrm{C}-11, \mathrm{~L}-1 \end{aligned}$ |
| tree well | 5-1-7, 5-1-8, C-11 |
| trunk | $5-1-2,5-1-3,5-1-4,5-1-5,5-1-6,5-1-11,5-3-20,5-4-9$, C-11 |


| turbidity | $\begin{aligned} & 2-4,2-6,2-7,3-11,5-1-3,5-11-1,5-11-2,5-11-3,5-11-4,5-11-41,5-11-42,5-11-43, \\ & 5-11-44,5-13-2,5-6-29, \text { C-11, L-1 } \end{aligned}$ |
| :---: | :---: |
| turbidity curtain | 3-11, 5-1-3, 5-11-1, 5-11-2, 5-11-3, 5-11-41, 5-11-42, 5-11-43, 5-11-44, C-11, L-1 |
| turf | $\begin{aligned} & 1-3,3-11,5-1-2,5-2-2,5-3-1,5-3-7,5-3-11,5-3-12,5-3-13,5-3-16,5-4-1,5-4-12, \\ & 5-4-13,5-5-21,5-6-1,5-6-2,5-6-3,5-10-3, \text { C-6, C-8, C-10, C-11, L-1 } \end{aligned}$ |
| underdrain | 5-5-4, 5-13-14, C-11 |
| upstream | $\begin{aligned} & 4-12,4-13,5-5-9,5-5-18,5-6-16,5-6-30,5-6-31,5-9-11,5-9-12,5-10-12,5-11-11, \\ & 5-11-26, \mathrm{C}-2, \mathrm{C}-4, \mathrm{C}-11, \mathrm{~J}-1 \end{aligned}$ |
| USDA | $\begin{aligned} & 3-4,3-6,4-9,4-16,5-3-20,5-5-13,5-9-4,5-11-6,5-11-7, \text { A-4, C-6, C-8, C-11, D-1, } \\ & \text { D-2, D-3, E-1, H-1, H-2, I-1 } \end{aligned}$ |
| USGS | 3-4, 3-5, C-11 |
| vegetated filter | 5-7-6, 5-7-7, 5-11-1, 5-11-3, 5-11-45, 5-11-46, 5-13-7, 5-13-14, C-11, L-1 |
| vegetated waterway | $\begin{aligned} & 3-11,5-1-2,5-2-7,5-3-13,5-4-12,5-5-20,5-6-1,5-6-2,5-6-3,5-6-4,5-6-5,5-6-6, \\ & 5-6-7,5-6-8,5-6-9,5-6-10,5-6-11,5-6-12,5-6-13,5-6-14,5-6-15,5-6-18,5-6-19 \\ & 5-7-12,5-7-13,5-9-11, \text { C-5, C-11, L-1 } \end{aligned}$ |
| velocity | $\begin{aligned} & 2-2,2-4,2-5,2-6,3-8,4-9,5-2-4,5-2-10,5-3-12,5-3-13,5-3-14,5-5-1,5-5-8,5-5-9, \\ & 5-5-13,5-5-18,5-6-2,5-6-3,5-6-4,5-6-18,5-6-19,5-6-22,5-6-23,5-7-6,5-7-9,5-8-5, \\ & 5-8-6,5-8-8,5-9-5,5-9-6,5-9-11,5-10-2,5-10-6,5-10-11,5-11-1,5-11-3,5-11-11, \\ & 5-11-30,5-11-35,5-11-41,5-11-42,5-11-45, \text { C-2, C-4, C-5, C-6, C-8, C-9, C-11, L-1 } \end{aligned}$ |
| water bar | $\begin{aligned} & 3-11,4-9,5-1-3,5-6-31,5-6-32,5-7-1,5-7-2,5-7-6,5-7-7,5-7-8,5-10-2,5-12-2 \text {, } \\ & 5-12-3, \text { C-11, L-1 } \end{aligned}$ |
| watershed | $\begin{aligned} & 2-5,3-3,3-5,3-6,3-7,3-12,3-135-6-16,5-6-17,5-7-12,5-9-2,5-9-3, \text {, 5-10-11, } \\ & 5-11-5,5-11-25,5-11-34, \text { C-3, C-10, C-11, F-3, L-1 } \end{aligned}$ |
| watertable | C-11 |
| waterway | 3-11, 4-5, 4-7, 5-1-2, 5-2-7, 5-3-13, 5-3-14, 5-4-12, 5-5-9, 5-5-18, 5-5-20, 5-6-1, $5-6-2,5-6-3,5-6-4,5-6-5,5-6-6,5-6-7,5-6-8,5-6-9,5-6-10,5-6-11,5-6-12,5-6-13$, $5-6-14,5-6-15,5-6-16,5-6-17,5-6-18,5-6-19,5-6-20,5-6-21,5-6-22,5-6-23,5-6-24$, $5-6-25,5-6-26,5-6-27,5-6-28,5-6-29,5-6-30,5-6-31,5-7-2,5-7-6,5-7-12,5-7-13$, 5-8-8, 5-9-11, 5-11-5, C-5, C-6, C-9, C-10, C-11, J-1, L-1 |
| weir | 5-9-10, 5-11-10, 5-11-29, C-2, C-11 |
| wet storage | $5-11-6,5-11-13,5-11-14,5-11-25,5-11-26,5-11-27,5-13-12, \mathrm{C}-11$ |
| wind erosion | 2-5, 3-11, 5-2-12, C-11 |

