TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	BR-NHE-40(16)	8
CONST.	2014	BR-NH-40(16)	8

REV. 05-14-14: ADDED NATIVE GRASS SEED MIXTURE TABLE.

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

STREAM/WETLAND

(1) ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G., FOR PIER FOOTING, RIP-RAP PLACEMENT, MULTI-BARREL CULVERT/BRIDGE CONSTRUCTION, ETC.) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. ALL ITEMS USED WITHIN THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW (OR EXPECTED FLOW), UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR THE TEMPORARY DIVERSION CHANNELS, EC-STR-31 AND TEMPORARY DIVERSION CULVERTS, EC-STR-32 FOR SINGLE BARREL CULVERT CONSTRUCTION.

KNOWN EXCEPTIONAL TENNESSEE WATERS

(2) FOR PROJECTS THAT DISCHARGE INTO KNOWN EXCEPTIONAL TENNESSEE WATERS OR WATERS IMPAIRED BY SILTATION, AN OUTFALL IN A DRAINAGE AREA OF 5 ACRES OR MORE, A TEMPORARY (OR PERMANENT) SEDIMENT BASIN THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A 5-YEAR/ 24-HOUR STORM EVENT AND RUNOFF FROM EACH ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE. THE ENVIRONMENTAL AND DESIGN DIVISIONS MAY BE CONTACTED TO REVIEW AND CONCUR WITH ANY REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE OUTFALL PROCEEDS, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CONSTRUCTION GENERAL PERMIT.

(3) FOR PROJECTS THAT DISCHARGE INTO KNOWN EXCEPTIONAL TENNESSEE WATERS OR WATERS IMPAIRED BY SILTATION, A 60 FOOT NATURAL RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STREAM WITH THIS DESIGNATION SHALL BE PRESERVED, TO THE MAXIMUM EXTENT PRACTICABLE, DURING CONSTRUCTION ACTIVITIES AT THE SITE. BUFFER ZONES ARE NOT SEDIMENT CONTROL MEASURES AND SHOULD NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL MEASURES. THE RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA. THE 60 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 30 FEET AT ANY MEASURED LOCATION. EVERY ATTEMPT SHALL BE MADE FOR CONSTRUCTION ACTIVITIES NOT TO TAKE PLACE WITHIN THE BUFFER ZONES. BEST MANAGEMENT PRACTICES (BMPS) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL RIPARIAN ZONE MAY BE USED. A JUSTIFICATION FOR USE AND DESIGN EQUIVALENCY SHALL BE DOCUMENTED WITHIN THE SWPPP. THE ENVIRONMENTAL AND DESIGN DIVISIONS SHALL REVIEW AND APPROVE THIS REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE SITE PROCEEDS, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CONSTRUCTION GENERAL PERMIT. WHERE ISSUED, ARAP/401 REQUIREMENTS WILL PREVAIL IF IN CONFLICT WITH THESE BUFFER ZONE REQUIREMENTS.

NPDES

(4) NO WORK SHALL BE STARTED UNTIL THE CONTRACTOR'S PLAN FOR THE STAGING OF THEIR OPERATIONS, INCLUDING THE PLAN FOR STAGING OF TEMPORARY AND PERMANENT EPSC MEASURES, HAS BEEN ACCEPTED BY THE ENGINEER. THE CONTRACTOR'S EPSC PLAN SHALL INCORPORATE AND SUPPLEMENT, AS ACCEPTABLE, THE BASIC EPSC DEVICES ON THE EPSC PLAN CONTAINED IN THE APPROVED SWPPP.

(5) THE EPSC MEASURES AND/OR PLAN SHALL BE MODIFIED AS NECESSARY SO THAT THEY ARE EFFECTIVE AT ALL TIMES THROUGHOUT THE COURSE OF THE PROJECT.

(6) THE ACCEPTED EPSC PLAN SHALL REQUIRE THAT EPSC MEASURES BE IN PLACE BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OCCURS, EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES, INCLUDING WITHOUT LIMITATION AS FOLLOWS:

A. INITIAL CLEARING AND GRUBBING SHALL BE LIMITED TO THAT NECESSARY FOR THE INSTALLATION OF APPLICABLE EPSC MEASURES IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

B. NO OTHER CLEARING AND GRUBBING OPERATIONS SHALL BE STARTED BEFORE APPLICABLE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

C. NO CULVERT OR BRIDGE CONSTRUCTION SHALL BE STARTED BEFORE APPLICABLE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

D. NO GRADING, EXCAVATION, CUTTING, FILLING, OR OTHER EARTHWORK SHALL BE STARTED BEFORE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

(7) PERMANENT EPSC MEASURES SHALL BE INITIATED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OF ANY SEQUENCE OR PHASE. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OR WHEN CONSTRUCTION ACTIVITIES ON A PORTION OF THE SITE ARE TEMPORARILY CEASED AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME UNTIL AFTER 14 CALENDAR DAYS. PERMANENT STABILIZATION WITH PERENNIAL VEGETATION OR OTHER PERMANENTLY STABLE NON-ERODING SURFACE SHALL REPLACE ANY TEMPORARY MEASURES AS SOON AS PRACTICABLE. UNPACKED GRAVEL CONTAINING FINES (SILT AND CLAY SIZED PARTICLES) OR CRUSHER-RUN WILL NOT BE CONSIDERED A NON-ERODIBLE SURFACE.

(8) STEEP SLOPES (A NATURAL OR CREATED SLOPE OF 35% GRADE (2.8H:1V) OR GREATER REGARDLESS OF HEIGHT) SHALL BE TEMPORARILY STABILIZED NO LATER THAN 7 CALENDAR DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED.

(9) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION SUPPORT ACTIVITIES; TDOT PROJECTS ARE COVERED UNDER THE "WASTE AND BORROW" MANUAL PER THE SSWMP.

(10) EXCEPT AS OTHERWISE SPECIFIED, THERE ARE NO KNOWN SPECIAL ENVIRONMENTAL FACTORS PRESENT ON THIS PROJECT THAT INDICATE A NEED FOR SEASONAL LIMITATIONS ON THE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OPERATIONS OR ON THE TOTAL AREA OF EXPOSED SOIL.

EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
(1)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	100
(2),(8)	209-03.23	FILTER SOCK (24 INCH)	L.F.	290
	209-05	SEDIMENT REMOVAL	C.Y.	17
	209-08.07	ROCK CHECK DAM PER	EACH	15
	209-08.08	ENHANCED ROCK CHECK DAM	EACH	4
	209-08.09	FILTER SOCK CHECK DAM	EACH	10
	209-09.04	SEDIMENT FILTER BAG(15' X 10')	EACH	2
	209-13.04	TURBIDITY CURTAIN (OCOEE LAKE)	L.F.	1500
	209-40.48	CATCH BASIN FILTER ASSEMBLY(TYPE 8)	EACH	3
(3),(8)	209-65.04	TEMPORARY IN STREAM DIVERSION	L.F.	1650
(5)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	84
	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	150
(1)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	175
(1),(4)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	320
	740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	12200
(9)	740-11.05	TEMPORARY SEDIMENT TUBE 24IN (EROSION CONTROL)	L.F.	360
(6)	801-01.06	SEEDING (SPECIAL MIXTURE)	UNIT	15
(7)	801-01.08	SEEDING (SPECIAL MIXTURE) WITH MULCH	UNIT	10
(8)	801-01.65	TEMPORARY MULCH	UNIT	5
	801-03	WATER (SEEDING & SODDING)	M.G.	2
	805-01.02	TURF REINFORCEMENT MAT (CLASS II)	S.Y.	1100
	805-12.01	EROSION CONTROL BLANKET (TYPE I)	S.Y.	200

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.	SYMBOL	ITEM	STD. DWG.
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C		CULVERT PROTECTION (TYPE 2)	EC-STR-11A
	ROCK CHECK DAM (V-DITCH)	EC-STR-6	8	CATCH BASIN FILTER ASSEMBLY (TYPE 8)	EC-STR-48
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A	TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25 *
IN DIV	INSTREAM DIVERSION	EC-STR-30 EC-STR-30A	** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	FLOATING TURBIDITY CURTAIN	EC-STR-38	** SOCK ** SOCK **	FILTER SOCK	EC-STR-8
SFB * * SFB * * SFB * * SFB *	SEDIMENT FILTER BAG	EC-STR-2		TURF REINFORCEMENT MAT	EC-STR-36
				EROSION CONTROL BLANKET	EC-STR-34

* TO BE PLACED AS DIRECTED BY THE ENGINEER

NATIVE GRASS SEED MIXTURES

	COMMON NAME	SCIENTIFIC NAME	LBS/ACRE	%
6,7	SWITCH GRASS	PANICUM VIRGATUM	15	38
6,7	INDIAN GRASS	SORGHASTRUM NUTANS	10	25
6,7	BIG BLUE STEM	ANDROPOGON GERARDII	5	12
6,7	DEERTONGUE GRASS	DICHANTHELIUM CLANDESTINUM	2	5
6,7	BOTTLEBRUSH GRASS	ELYMAS HYSTRIX	2	5
6,7	VIRGINIA WILD RYE	ELYMUS VIGINICUS	2	5
6,7	RIVER WOOD OATS	CHASMANTHIUM LATIFOLIUM	2	5
6,7	FOWL MANNA GRASS	GLYCERIA STRIATA	2	5
	TOTAL		40	100

(1) FOR TEMPORARY CONSTRUCTION EXITS TO BE PLACED AS DIRECTED BY THE ENGINEER
(2) INCLUDES 90' FOR USE WITH SEDIMENT FILTER BAG
(3) INCLUDES 1500 L.F. FOR USE AS AN ALTERNATE TO THE TURBIDITY CURTAIN DURING EXTREME LOW FLOWS.
(4) INCLUDES 100 SY FOR TEMPORARY CONSTRUCTION EXITS, 85 SY FOR SEDIMENT FILTER BAG AND 135 SY FOR ROCK SILT SCREENS
(5) INCLUDES 72 TONS FOR ROCK SILT SCREEN AND 12 TONS FOR TEMPORARY CONSTRUCTION EXITS
(6) PERMANENT SEEDING (SEE PROJECT COMMITMENTS FOR SEEDING GUIDELINES) TO BE USED WITH EROSION CONTROL BLANKET AND TURF REINFORCEMENT MAT
(7) TEMPORARY SEEDING (SEE PROJECT COMMITMENTS FOR SEEDING GUIDELINES)
(8) TO BE USED AS DIRECTED BY THE ENGINEER
(9) TO BE USED FOR CULVERT PROTECTION (TYPE 2)

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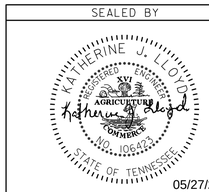

05/27/2014

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

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