




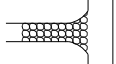





















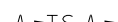




Tollway Standard Drawing Revisions

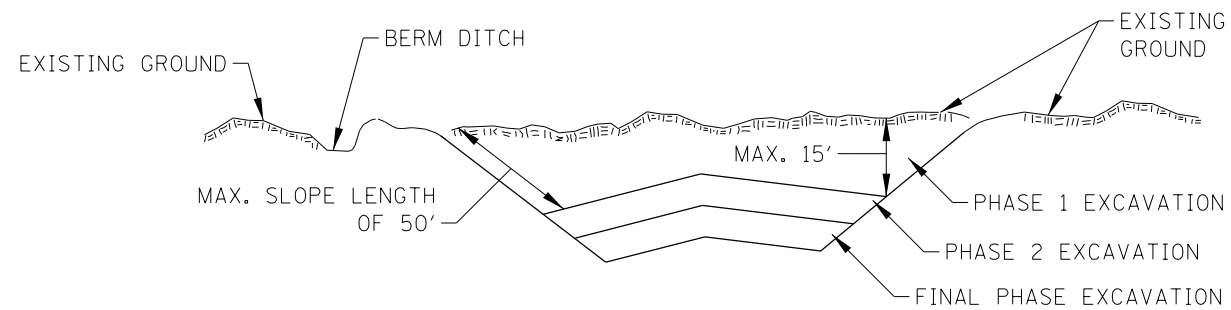
Section K	Temporary Erosion & Sediment Control		
	Standard	Modification Summary	Effective: 03/11/15
	All	Revised detail descriptions to match Tollway Coded Pay Items	
		Updated drawings to follow IDOT highway standard levels	
	Sheet 1	General Notes	
		Note 18. Changed "construction section engineer" to "engineer"	
		Note 19. Corrected: Contractor's "Certification" Statement	
		Note 21. Referenced "Tollway" ESC Manual	
		Note 22. Changed "hazard" to "obstacle" per Traffic Barrier Guidelines	
	Sheet 2	Standard Symbols	
		New symbol for "Filter Fabric Inlet protection, Cover Type"	
		New symbol for "Filter Fabric Inlet protection, Basket Type"	
	Sheet 3	Embankment Phasing Plan-Fill Section-Detail	
		Deleted note 2B, changed 2A to 2.	
	Sheet 4	Temporary Rock Check Dam-Detail	
		Added note 5	
	Sheet 6	Synthetic Porous Runoff Control Structure-Detail	
		Added dimension "C" for panel height to detail	
		Creek Buffer Strip and Silt Fence-Detail	
		Note 1. Deleted second sentence	
	Sheet 7	Silt Fence-Detail	
		Deleted note 5; Renumbered note 6 to 5	
	Sheet 8	Super Silt Fence-Detail	
		Deleted note 6; Renumbered note 7 to 6	
	Sheet 9	Culvert Inlet Protection Fence-Detail	
		Note 1. Revised maximum post spacing from 6' to 3'	
	Sheet 10	Flotation Boom Detail	
		Revised drawing to show boom reaching bottom of waterway	
	Sheet 11	Filter Fabric Inlet Protection-Detail	
		Added new symbol for "Filter Fabric Inlet protection, Cover Type"	
		Added new symbol for "Filter Fabric Inlet protection, Basket Type"	

 New Sheet

 Retired Standard

STANDARD SYMBOLS

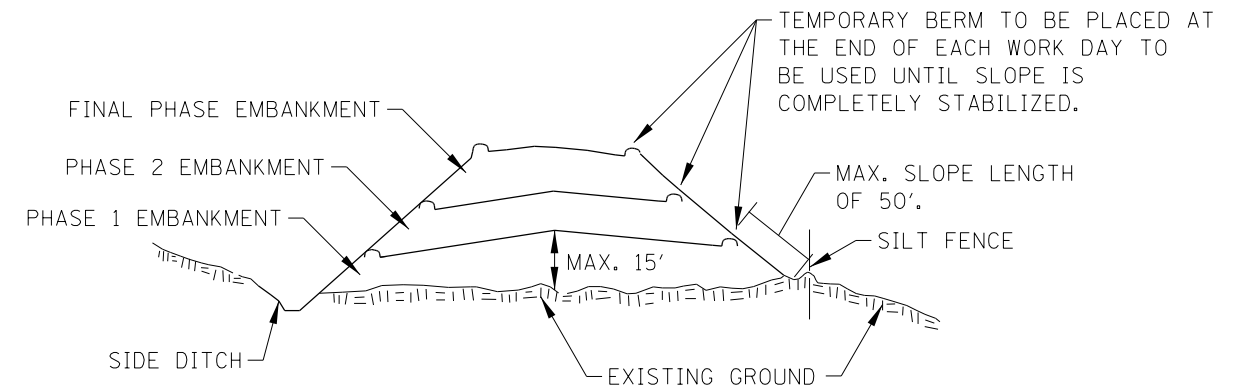
	CLEARING & GRADING LIMITS (LIMITS OF CONSTRUCTION)		SILT FENCE
	CULVERT INLET PROTECTION-FENCE		STABILIZED CONSTRUCTION ENTRANCE
	CULVERT INLET PROTECTION-STONE		STONE OUTLET STRUCTURE SEDIMENT TRAP
			STREAM DIVERSION
	DEWATERING BASINS		SUPER SILT FENCE
	DIVERSION DIKE		(SPRCS) SYNTHETIC POROUS RUNOFF CONTROL STRUCTURE
	DRAINAGE DIVIDE		(REDC) TEMPORARY DITCH CHECK ROLLED EXCELSIOR LOG
	EXISTING DRAINAGE PATH		(UFDC) TEMPORARY DITCH CHECK URETHANE FOAM GEOTEXTILE
	FILTER FABRIC INLET PROTECTION, COVER TYPE		TEMPORARY PIPE SLOPE DRAIN
	FILTER FABRIC INLET PROTECTION, BASKET TYPE		TEMPORARY RIPRAP
	FLOTATION BOOM		TEMPORARY ROCK CHECK DAM
	INITIAL CONSTRUCTION ITEM		TEMPORARY STREAM CROSSING
	PROPOSED DRAINAGE PATH		TEMPORARY SWALE
	RECTANGULAR INLET PROTECTION		TREE PROTECTION
	SEDIMENT BASIN AGGREGATE BERM		
	SEDIMENT BASIN		



NOTES:

1. ALL CUT SLOPES SHALL BE EXCAVATED AND STABILIZED (PLACE TOPSOIL PREPARE SEEDBED, APPLY SEED, PROTECT SLOPE WITH MULCH OR EROSION BLANKET) AS THE WORK PROGRESSES.
2. CONSTRUCTION SEQUENCE:
 - A) EXCAVATE AND STABILIZE BERM, SIDE AND OUTLET DITCHES, PROVIDE SEDIMENT TRAPS FOR DITCHES.
 - B) PERFORM PHASE 1 EXCAVATION AND STABILIZE SLOPES WITH PERMANENT SEEDING.
 - C) PERFORM PHASE 2 EXCAVATION AND STABILIZE SLOPES WITH PERMANENT SEEDING. OVER SEED PHASE 1 SLOPES, IF REQUIRED.
 - D) PERFORM FINAL PHASE EXCAVATION, DRESS, SEED AND MULCH SLOPES WITH PERMANENT SEEDING. STABILIZE SURFACE DRAIN DITCHES. OVER SEED PHASE 1 & 2 SLOPES, IF REQUIRED, AS DETERMINED BY THE ENGINEER.
3. IF PERMANENT SEEDING CANNOT BE PLACED DUE TO CONTRACT REQUIREMENTS REGARDING PLANTING SEASONS, THE CUT SLOPE IS TO HAVE TOPSOIL PLACED AND SEEDING PREPARED PRIOR TO USING TEMPORARY STABILIZATION WITH STRAW MULCH OR TEMPORARY SEEDING WITH EROSION BLANKET.
4. THE CONTRACTOR HAS THE OPTION OF DELAYING TOPSOIL SEEDING BEYOND THE 15 FOOT LIMITATION. IF THIS OPTION IS CHOOSSEN, THE CUT SLOPE MUST BE "TEMPORARY STABILIZED" AT NO COST TO THE TOLLWAY.
5. ONCE THE EXCAVATION WITHIN A SPECIFIC AREA HAS BEGUN, THE OPERATION SHALL BE CONTINUOUS FROM STRIPPING THROUGH THE COMPLETION OF THE GRADING AND PLACEMENT OF SLOPE STABILIZATION MEASURES. ANY INTERRUPTIONS IN THE OPERATION OF 14 DAYS OR MORE MUST BE APPROVED BY THE ENGINEER. ANY VIOLATION OF THIS REQUIREMENT WILL RESULT IN THE CONTRACTOR ASSUMING THE RESPONSIBILITY OF PLACING TEMPORARY STABILIZATION AT HIS OWN COST AND EXPENSE.

EXCAVATION PHASING PLAN - CUT SECTION



NOTES:

1. THE EMBANKMENT WILL BE MADE IN STAGES NOT TO EXCEED 15' IN HEIGHT OR 50' IN SLOPE LENGTH. THE EMBANKMENT SLOPES WILL BE STABILIZED USING TEMPORARY MEASURES BEFORE BEGINNING NEXT STAGE.
2. AT THE END OF EACH WORK DAY TEMPORARY BERMS (EARTH) AND TEMPORARY PIPE SLOPE DRAINS WILL BE CONSTRUCTED ALONG THE TOP EDGE(S) OF THE EMBANKMENT TO INTERCEPT SURFACE RUNOFF.
3. CONSTRUCTION SEQUENCE:
 - A) EXCAVATE AND STABILIZE SIDE DITCH AND/OR INSTALL PROPOSED PERIMETER CONTROLS AT THE TOE OF SLOPE.
 - B) PLACE PHASE 1 EMBANKMENT AND STABILIZE WITH TEMPORARY SEEDING AND MULCH.
 - C) PLACE PHASE 2 EMBANKMENT AND STABILIZE WITH TEMPORARY SEEDING AND MULCH.
 - D) PLACE FINAL PHASE EMBANKMENT AND STABILIZE WITH PERMANENT VEGETATIVE PLAN ON THE ENTIRE SLOPE.
4. ONCE THE PLACEMENT OF FILL WITHIN A SPECIFIC AREA HAS BEGUN, THE OPERATION SHALL BE CONTINUOUS FROM STRIPPING THROUGH THE COMPLETION OF THE GRADING AND PLACEMENT OF PERMANENT VEGETATIVE PLAN. ANY INTERRUPTIONS IN THE OPERATION OF 14 DAYS OR MORE MUST BE APPROVED BY THE ENGINEER. ANY VIOLATION OF THIS REQUIREMENT WILL RESULT IN THE CONTRACTOR ASSUMING THE RESPONSIBILITY OF PLACING TEMPORARY STABILIZATION AT HIS OWN COST AND EXPENSE.


EMBANKMENT PHASING PLAN - FILL SECTION

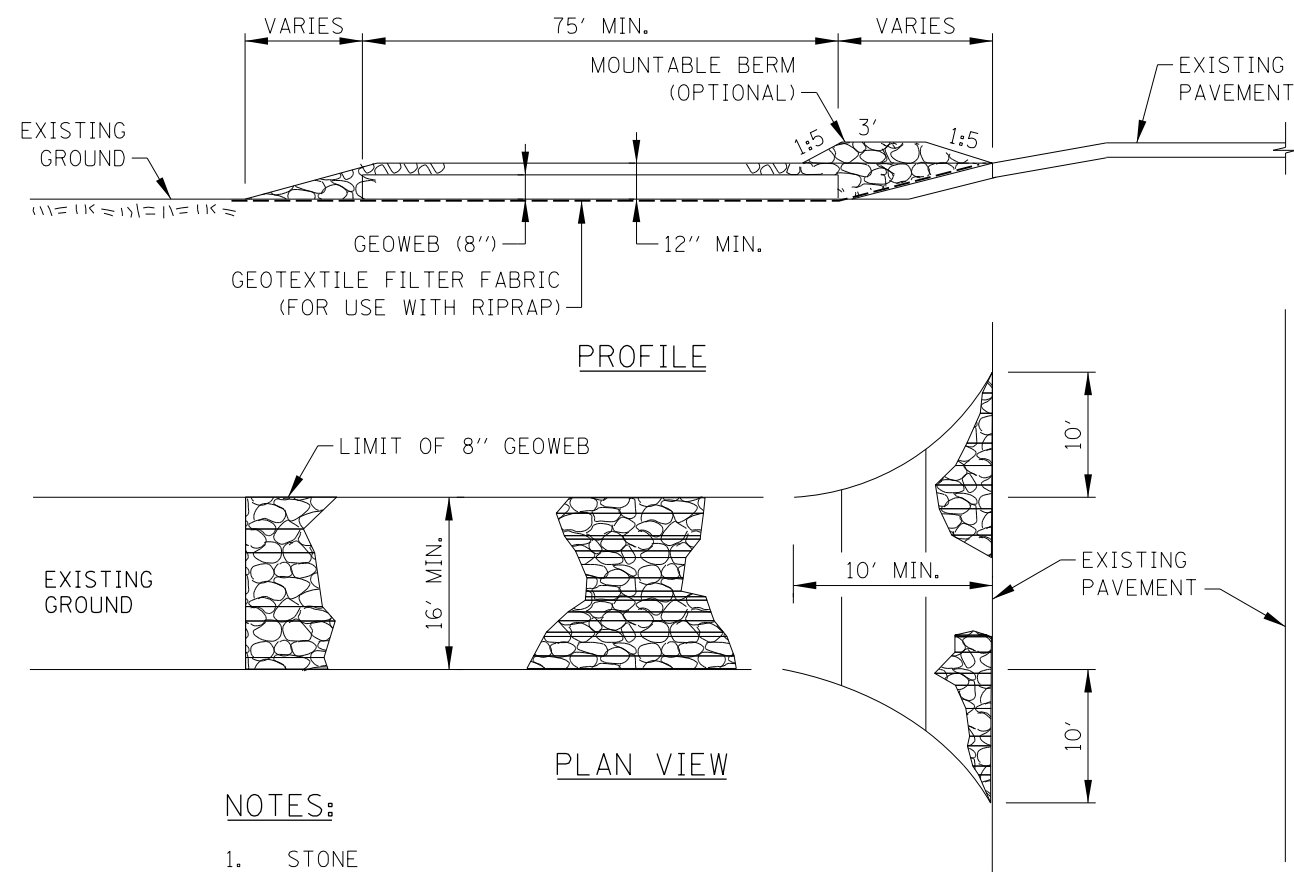
SHEET 3 OF 11



TEMPORARY EROSION
AND SEDIMENT CONTROLS

STANDARD K1-05

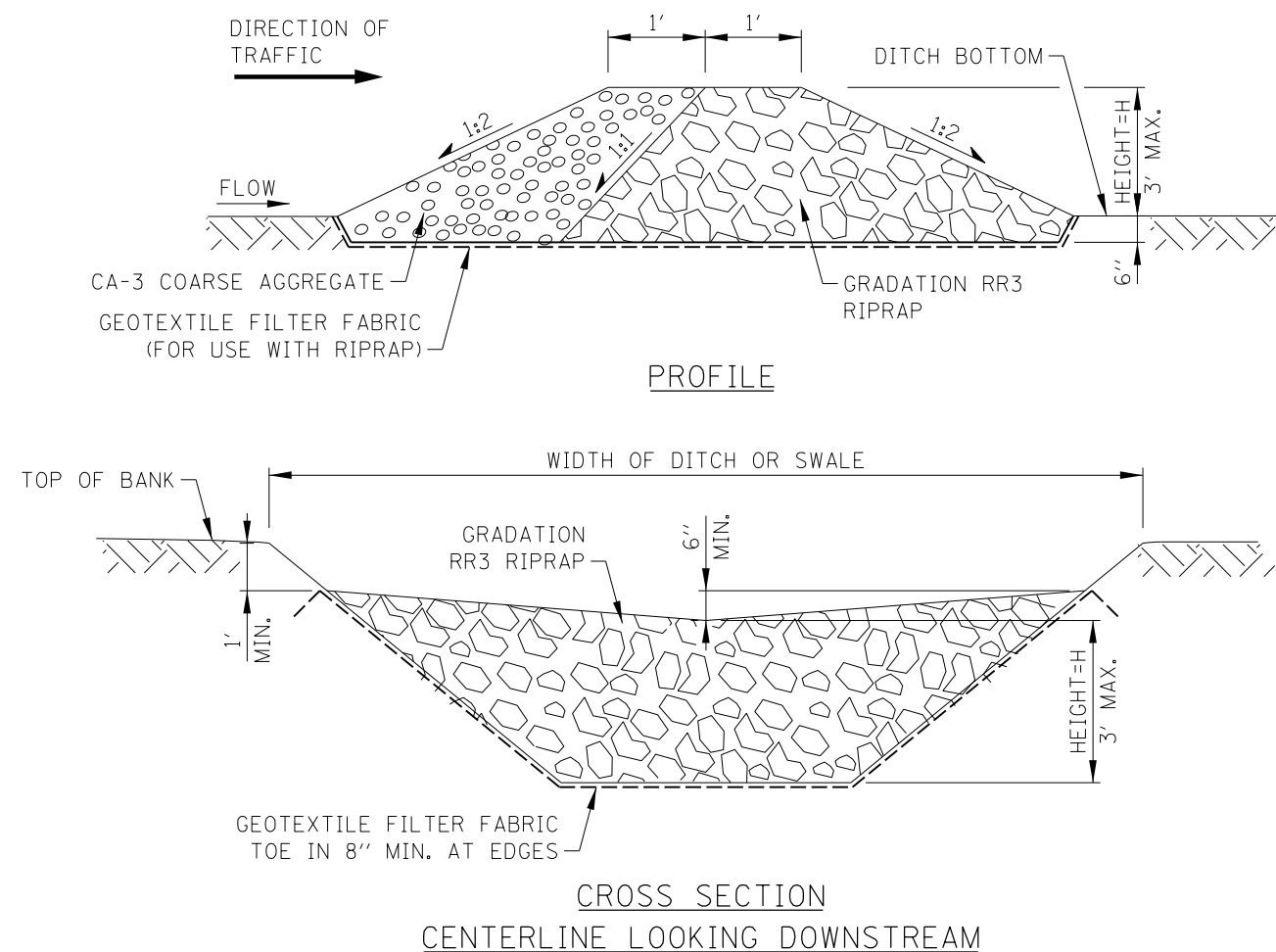
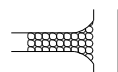

 APPROVED..... CHIEF ENGINEER DATE 2-7-2012



NOTES:

- STONE
 - STONE SIZE - CA-3
 - LENGTH - AS REQUIRED, BUT NOT LESS THAN 75'.
 - THICKNESS - NOT LESS THAN 4" ABOVE TOP OF GEOWEB.
- WIDTH - 16' MINIMUM FOR ONE WAY TRAFFIC; 24' MINIMUM FOR TWO-WAY TRAFFIC; BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- GEOWEB NOT LESS THAN 8" IN DEPTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 1:5 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY SHALL BE REMOVED IMMEDIATELY.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER HEAVY USE AND EACH RAINFALL EVENT.
- TO BE USED TO REDUCE OR ELIMINATE TRACKING OF SEDIMENT ONTO PUBLIC STREETS. PLACE AT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS. DISTURBED AREAS TO BE RESTORED UPON REMOVAL.

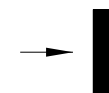
STABILIZED CONSTRUCTION ENTRANCE
STANDARD SYMBOL



NOTES:

- FOR LOCATIONS AND HEIGHTS OF ROCK CHECK DAMS REFER TO CONSTRUCTION DRAWINGS.
- TEMPORARY ROCK CHECK DAMS SHALL BE REPLACED WHEN THEY CEASE TO FUNCTION AS INTENDED DUE TO WASHOUT OR CONSTRUCTION TRAFFIC DAMAGE.
- SEDIMENT SHALL BE REMOVED WHEN IT REACHES 50% OF DAM HEIGHT. THIS PRACTICE IS NOT A SUBSTITUTE FOR MAJOR PERIMETER TRAPPING SUCH AS A TEMPORARY SEDIMENT TRAP OR BASIN.
- SPACING BETWEEN DAMS SHALL BE SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS TOP OF RIPRAP AT THE CENTER OF THE DOWNSTREAM DAM.
- WHEN A TEMPORARY ROCK CHECK DAM IS IN THE CLEAR ZONE, IT MUST BE MADE TRAVERSABLE TO AN ERRANT VEHICLE. THE MAXIMUM UNSHIELDED TRANSVERSE SLOPE ALLOWED TO FACE TRAFFIC SHALL BE 1:10 (V:H) AND THE MAXIMUM TRANSVERSE FACING AWAY FROM TRAFFIC SHALL BE 1:4 (V:H). AN UNSHIELDED TEMPORARY ROCK CHECK DAM SHALL HAVE AN ADDITIONAL LAYER OF CA-3 COURSE AGGREGATE (6" MIN.) PLACED ON THE DOWNSTREAM SIDE OF THE ROCK CHECK DAM. THE GEOTEXTILE FILTER FABRIC SHALL BE PLACED ALONG THE ENTIRE BASE OF THE TEMPORARY ROCK CHECK DAM.

TEMPORARY ROCK CHECK DAM
STANDARD SYMBOL



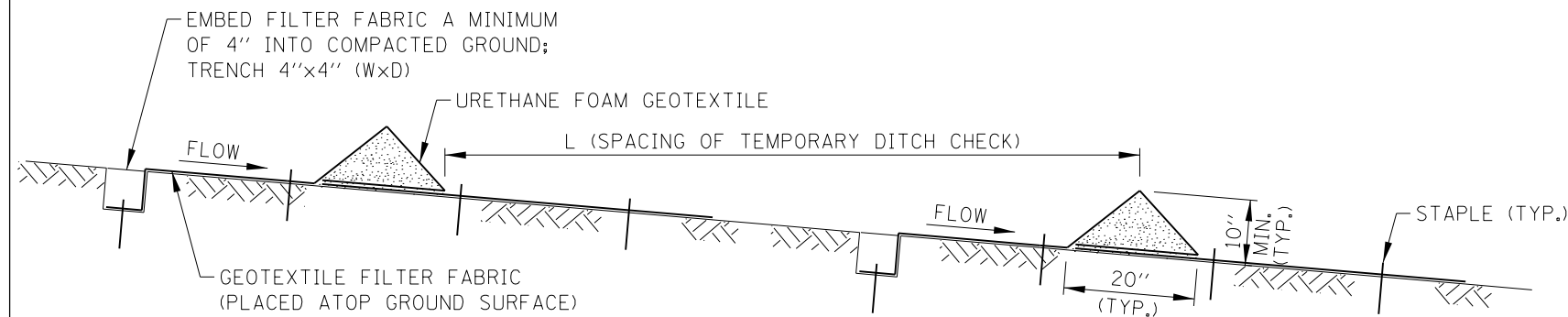
SHEET 4 OF 11



TEMPORARY EROSION
AND SEDIMENT CONTROLS

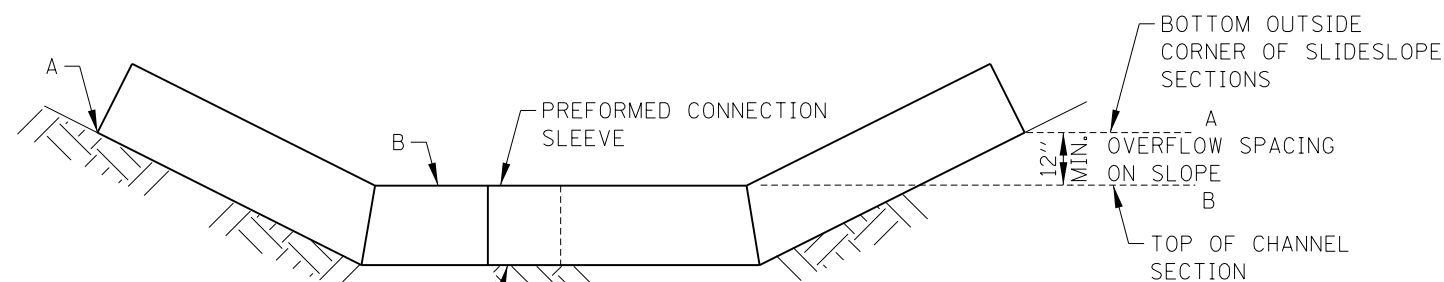
STANDARD K1-05

APPROVED: *Paul Kovacs* DATE: 2-7-2012
CHIEF ENGINEER



$$L = \text{MINIMUM HEIGHT (FT.)} / \text{DITCH GRADIENT (\%)} \times 100.$$

SECTION



PLACE STAPLES WHERE UNITS OVERLAP (SEE NOTE 2)

ELEVATION

NOTES:

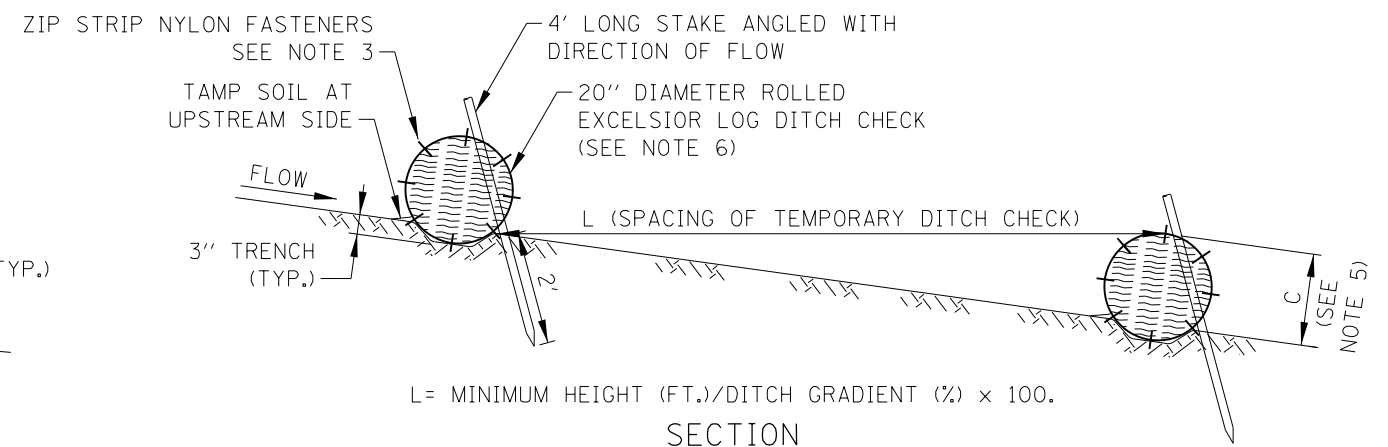
1. UPSTREAM EDGE OF DITCH CHECK APRON TO BE PLACED IN A 4"x4" TRENCH AND ANCHORED WITH A ROW OF WIRE STAPLES ON 18" CENTERS TO ENSURE THAT STORM WATER IS FORCED THROUGH THE DITCH CHECK RATHER THAN UNDER IT.
2. BUTT ENDS OF DITCH CHECKS TOGETHER BY OVERLAP FABRIC AND STAPLE SEAM AT BASE.
3. PLACE WIRE STAPLES IN PATTERN AS SPECIFIED BY THE MANUFACTURER WITH A MINIMUM OF 8 STAPLES PER SQUARE YARD OF APRON. WIRE STAPLES TO BE A MINIMUM OF NO. 11 GAUGE, 8" LONG.
4. URETHANE FOAM/GEOTEXTILE DITCH CHECKS ARE SUPPLIED IN STANDARD 7 FOOT LENGTHS AND SHOULD NOT BE CUT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SILT SHALL BE REMOVED WHEN IT REACHES 50% OF DITCH CHECK HEIGHT.
6. FOR ALTERNATE SIZE DITCH CHECK SEE GENERAL NOTE 21 ON SHEET 1 IN THIS SERIES.
7. TEMPORARY DITCH CHECK TO BE USED TO CONTROL FLOW IN DITCHES. THE DITCH CHECK IS NOT A SUBSTITUTE FOR SEDIMENT TRAPS OR BASINS. PLACE UPSTREAM OF TRAPS OR BASINS AND MAINTAIN IN PLACE UNTIL SEEDING IS ESTABLISHED.

TEMPORARY DITCH CHECK
URETHANE FOAM/GEOTEXTILE
STANDARD SYMBOL



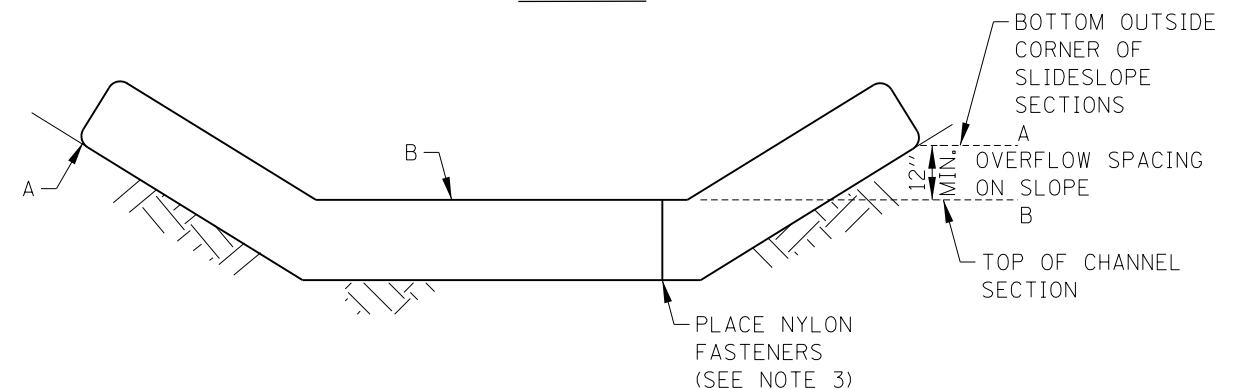
(UFDC)

APPROVED: *Paul Kovacs* DATE: 2-7-2012
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$$L = \text{MINIMUM HEIGHT (FT.)} / \text{DITCH GRADIENT (\%)} \times 100.$$

SECTION



ELEVATION

NOTES:

1. ROLLED EXCELSIOR LOG SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 3" AND SOIL SHALL BE TAMPED AGAINST THE UPSTREAM SIDE TO ENSURE STORM WATER IS FORCED THROUGH THE LOG, RATHER THAN UNDER IT.
2. STAKES SHALL BE 4' LONG, DRIVEN AT A SPACING OF 2' ON CENTER, 2' INTO THE GROUND. STAKES SHALL BE ENTWINED WITH THE MESH COVERING OF THE ROLL ON THE DOWNSTREAM SIDE AND ANGLED WITH THE DIRECTION OF FLOW. WOOD STAKES TO BE A MINIMUM OF 1" SQUARE. METAL STAKES SHALL BE A MINIMUM OF 1" DIAMETER.
3. WHEN MORE THAN ONE LOG IS REQUIRED TO SPAN THE DITCH, BUTT LOGS TIGHTLY TOGETHER END TO END AND FASTEN TOGETHER WITH A MINIMUM OF EIGHT EQUALLY SPACED ZIP STRIP NYLON FASTENERS.
4. ROLLED EXCELSIOR LOG DITCH CHECKS ARE SUPPLIED IN STANDARD 10 FOOT LENGTHS AND SHOULD NOT BE CUT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SILT SHALL BE REMOVED WHEN IT REACHES 50% OF ROLL HEIGHT. WHEN EXCELSIOR LOG HEIGHT BECOMES LESS THAN 10", IT SHALL BE REPLACED.
6. FOR ALTERNATE SIZE DITCH CHECK SEE GENERAL NOTE 21 ON SHEET 1 IN THIS SERIES.
7. TEMPORARY DITCH CHECK TO BE USED TO CONTROL FLOW IN DITCHES. THE DITCH CHECK IS NOT A SUBSTITUTE FOR SEDIMENT TRAPS OR BASINS. PLACE UPSTREAM OF TRAPS OR BASINS AND MAINTAIN IN PLACE UNTIL SEEDING IS ESTABLISHED.
8. SPACING OF TEMPORARY DITCH CHECK TO BE BASED ON 10" MINIMUM HEIGHT DIMENSION.

TEMPORARY DITCH CHECK
ROLLED EXCELSIOR LOG
STANDARD SYMBOL



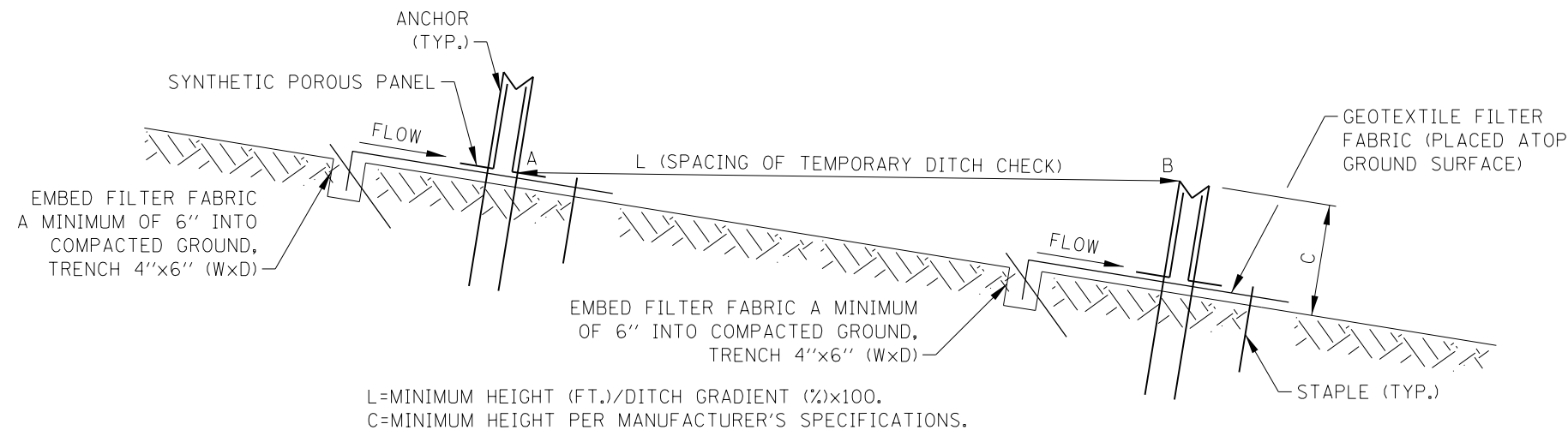
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SHEET 5 OF 11



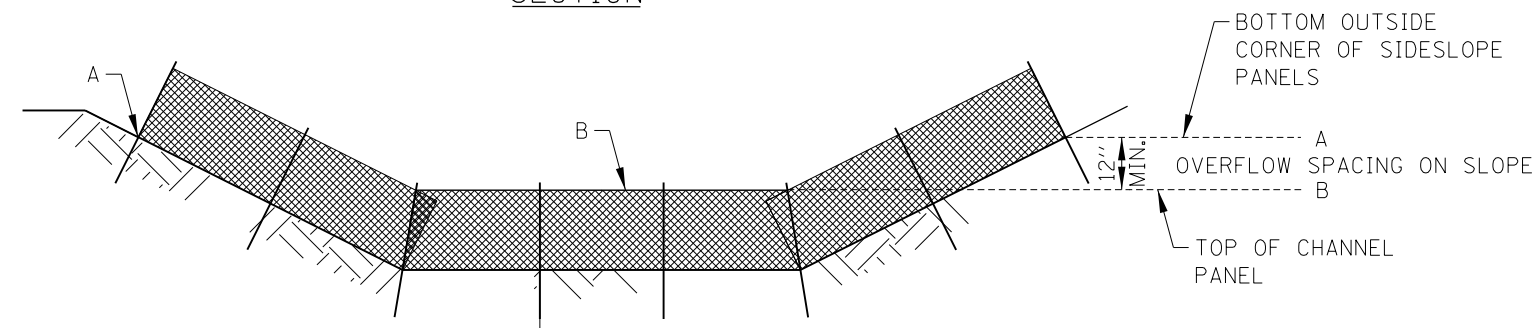
TEMPORARY EROSION
AND SEDIMENT CONTROLS

STANDARD K1-05



L=MINIMUM HEIGHT (FT.)/DITCH GRADIENT (%)×100.
C=MINIMUM HEIGHT PER MANUFACTURER'S SPECIFICATIONS.

SECTION



ELEVATION

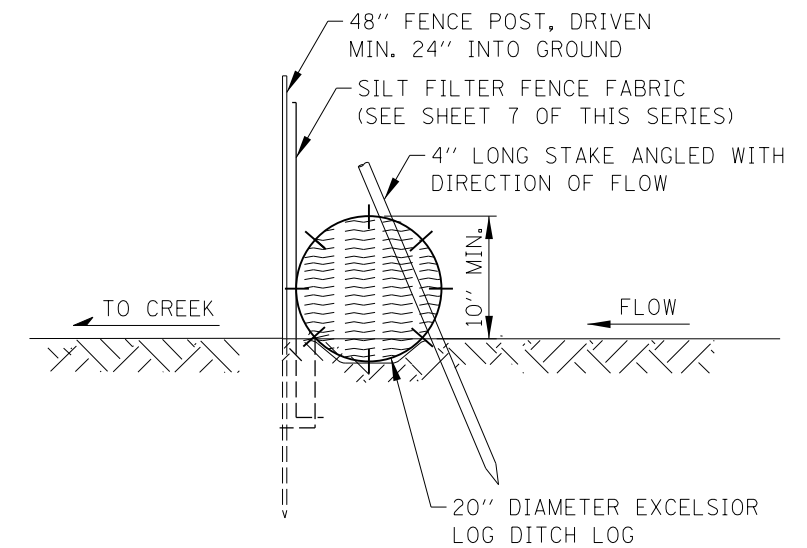
NOTES:

1. UPSTREAM EDGE OF THE POROUS RUNOFF CONTROL SYSTEM STRUCTURE FILTER FABRIC TO BE PLACED IN A 4"x6" TRENCH AND ANCHORED WITH A ROW OF STAPLES TO ASSURE THAT THE STORM WATER IS FORCED THROUGH THE POROUS PANELS RATHER UNDER IT.
2. THE RUNOFF CONTROL STRUCTURE SHALL BE PLACED PERPENDICULAR TO THE DIRECTION OF WATER FLOW. THE STRUCTURE SHALL BE COMPRISED OF A CENTRAL SECTION FORMING A HORIZONTAL POROUS WEIR AND TWO INCLINED SECTIONS EXTENDING UP THE SIDESLOPE AND BACKSLOPE.
3. THE POROUS RUNOFF CONTROL STRUCTURE SHALL BE INSTALLED IN ACCORDANCE TO THE MANUFACTURER'S REQUIREMENTS.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SILT SHALL BE REMOVED WHEN IT REACHES 50% OF THE HEIGHT OF THE STRUCTURE.
5. THE SYNTHETIC POROUS RUNOFF CONTROL STRUCTURES TO BE USED TO CONTROL FLOW IN DITCHES. IT IS NOT A SUBSTITUTE FOR SEDIMENT TRAPS OR BASINS. PLACE UPSTREAM OF TRAPS OR BASINS AND MAINTAIN IN PLACE UNTIL SEEDING IS ESTABLISHED.

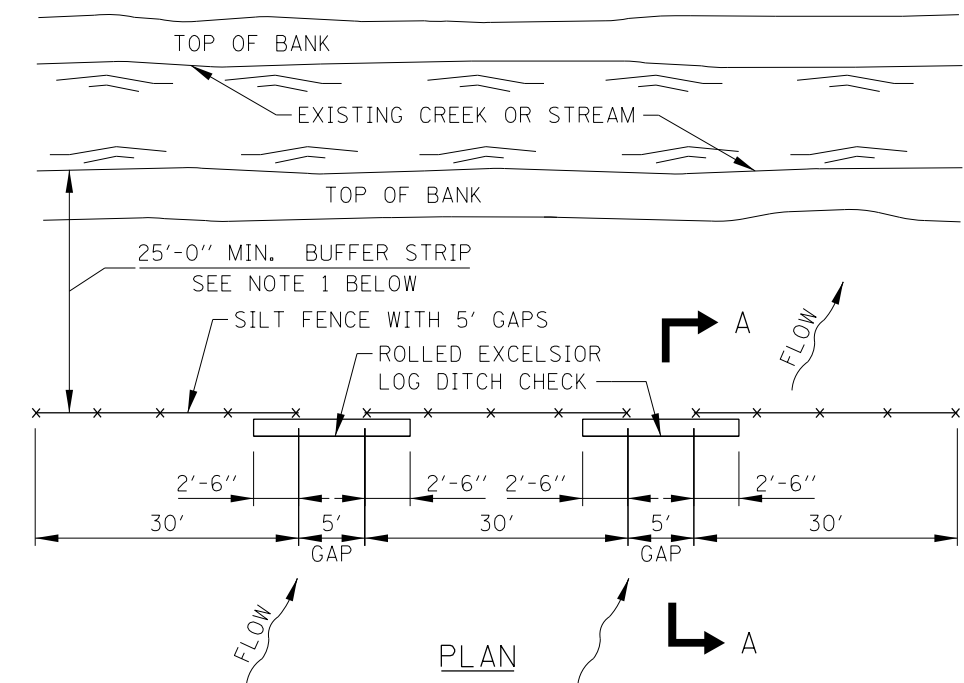
SYNTHETIC POROUS RUNOFF CONTROL STRUCTURE

STANDARD SYMBOL

(SPRCS)



SECTION A-A



NOTES:

1. A MINIMUM 25' WIDE VEGETATED BUFFER STRIP SHALL BE PRESERVED AND/OR RE-ESTABLISHED WHERE POSSIBLE ALONG EXISTING CHANNELS.
2. THE 5' GAPS IN THE SILT FENCE AND THE 20" DIAMETER TEMPORARY DITCH CHECKS ARE TO ALLOW FLOODWATER FLOW INTO THE CREEK FROM THE SITE WITHOUT DAMAGE TO THE SILT FENCE.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SILT SHALL BE REMOVED WHEN IT REACHES 50% OF ROLL HEIGHT. WHEN ROLLED EXCELSIOR LOG BECOMES LESS THAN 10" IT SHALL BE REPLACED.

CREEK BUFFER STRIP AND SILT FENCE

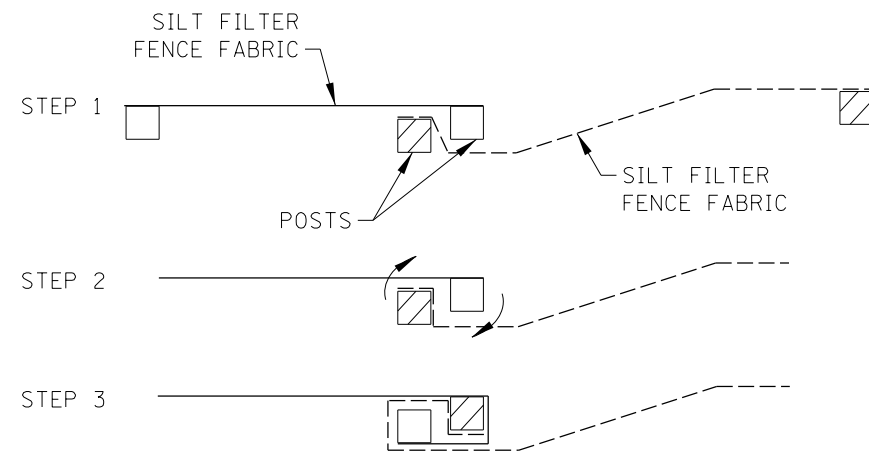
SHEET 6 OF 11



TEMPORARY EROSION
AND SEDIMENT CONTROLS

STANDARD K1-05

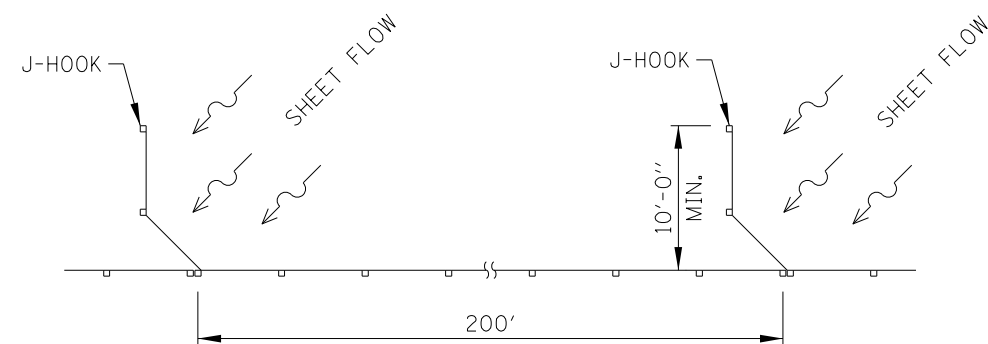
APPROVED: *Paul Kovacs* DATE: 2-7-2012
CHIEF ENGINEER



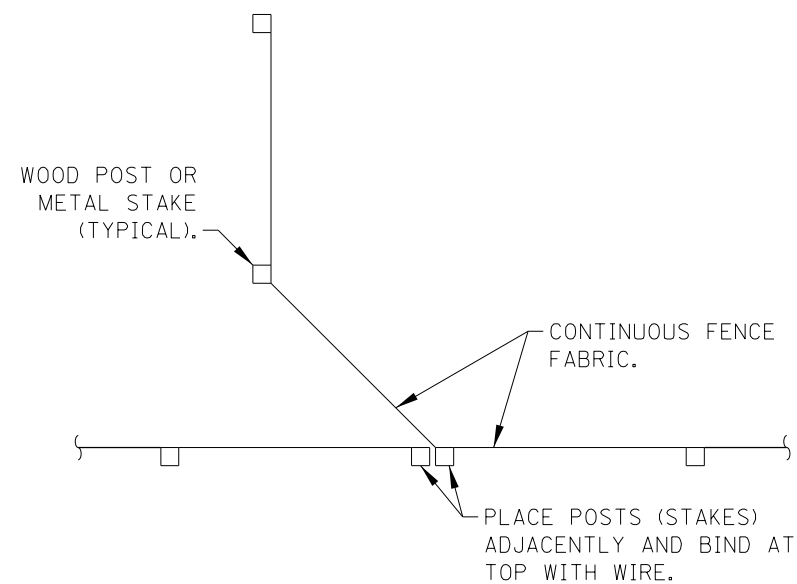
NOTES:

1. PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE.
2. ROTATE BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL.
3. DRIVE BOTH POSTS A MINIMUM OF 24" INTO THE GROUND.

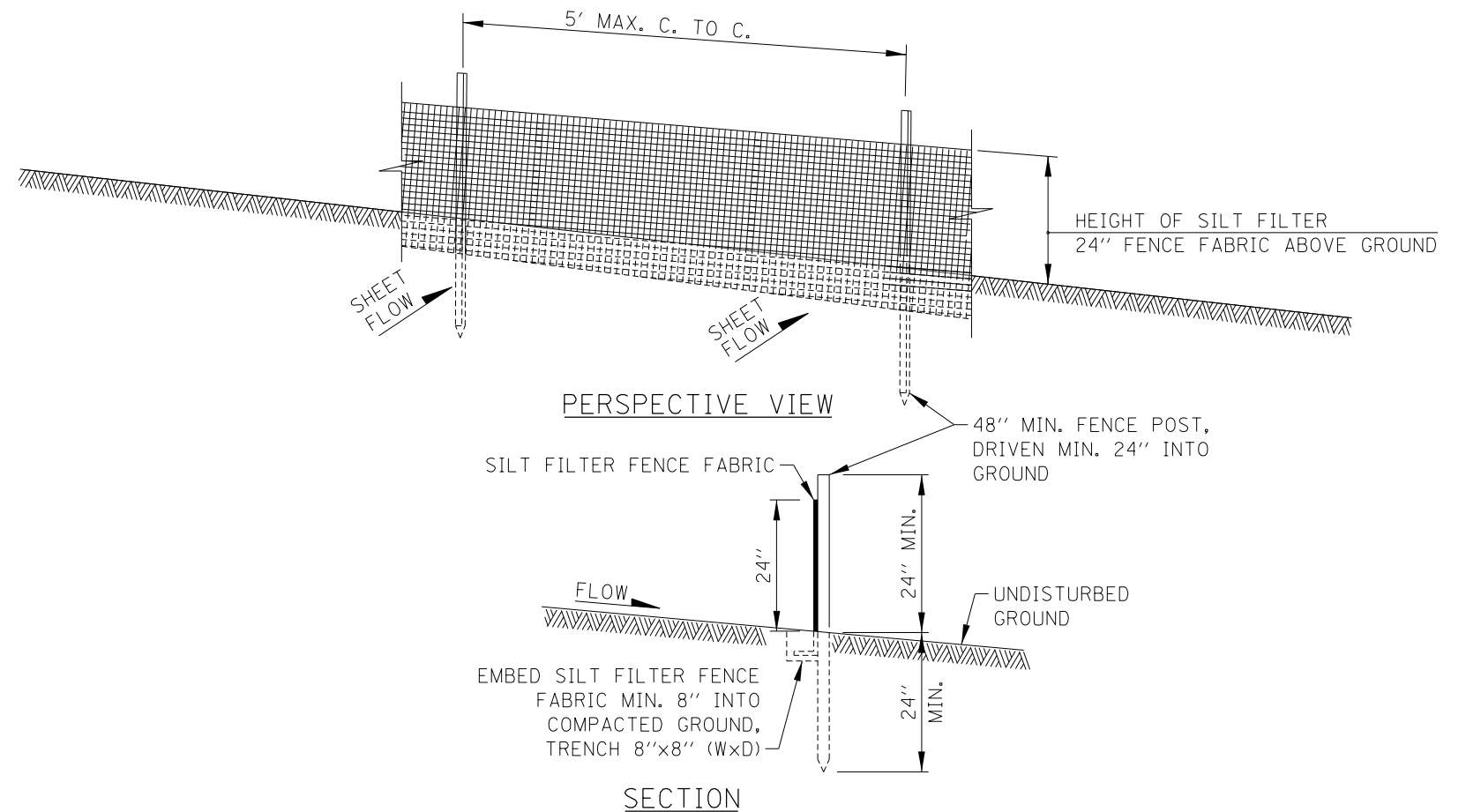
ATTACHING TWO SILT FENCES



SILT FILTER J-HOOK PLACEMENT



J-HOOK



NOTES:

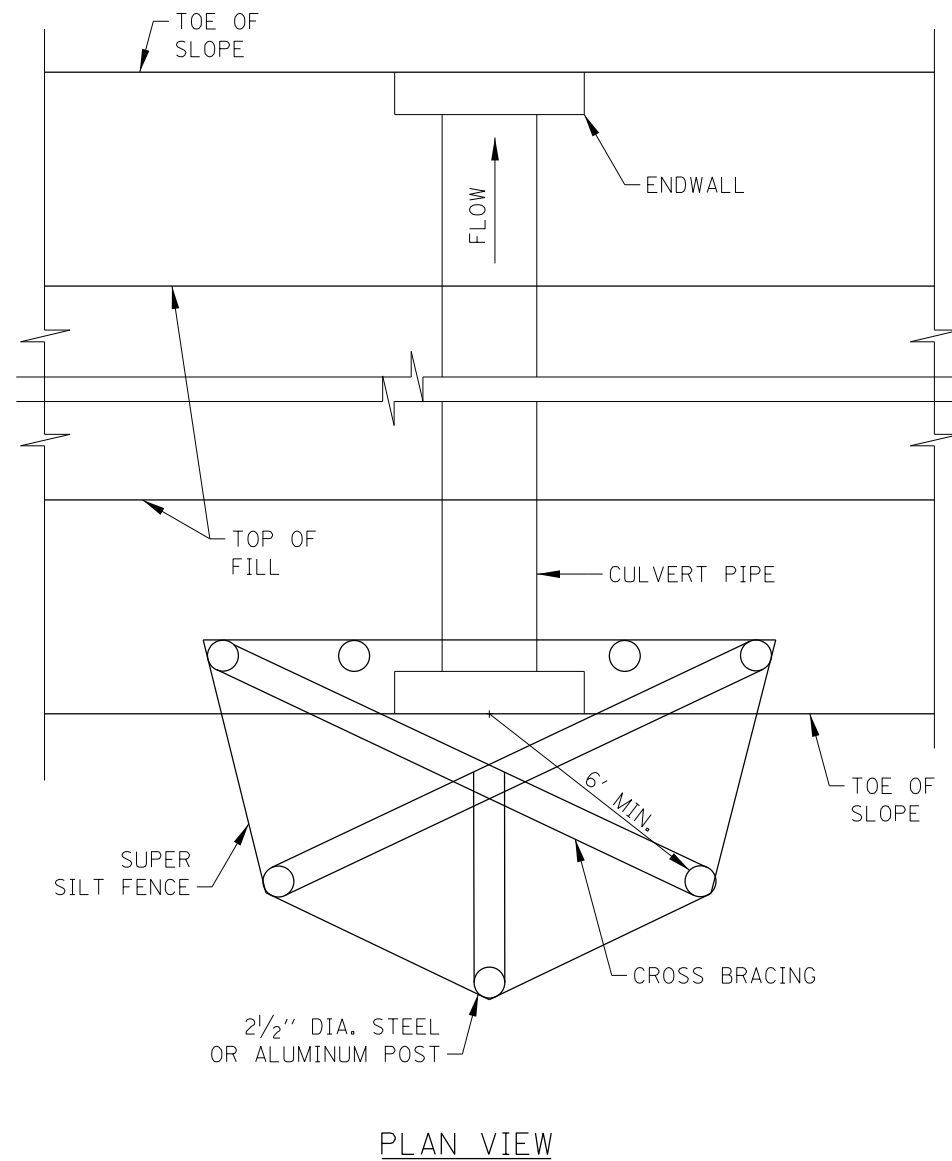
1. SILT FILTER FENCE FABRIC TO BE FASTENED SECURELY TO FENCE POSTS.
2. WHEN TWO SECTIONS OF SILT FILTER FENCE FABRIC ADJOIN EACH OTHER THEY SHALL BE SECURELY FASTENED PER THE DETAIL ATTACHING TWO SILT FENCES.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED. SILT BUILD UP AGAINST FENCE SHALL BE INSPECTED AFTER EVERY STORM EVENT AND REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE, OR WHEN SILT REACHES 50% OF FENCE HEIGHT.
4. FENCE POSTS: 2"x2" (NOMINAL) HARDWOOD OR SCHEDULE 40 METAL PIPE OR 1.33 LB/FT MIN. STANDARD T OR U SECTION STEEL POSTS.
5. THIS DEVICE IS TO CONTROL SHEET FLOW ONLY. DO NOT USE FOR CONCENTRATED FLOWS, DRAINAGE CHANNELS, ABOVE OR BELOW DRAINAGE PIPES.

SILT FENCE (SF) STANDARD SYMBOL





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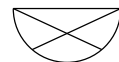


NOTES:

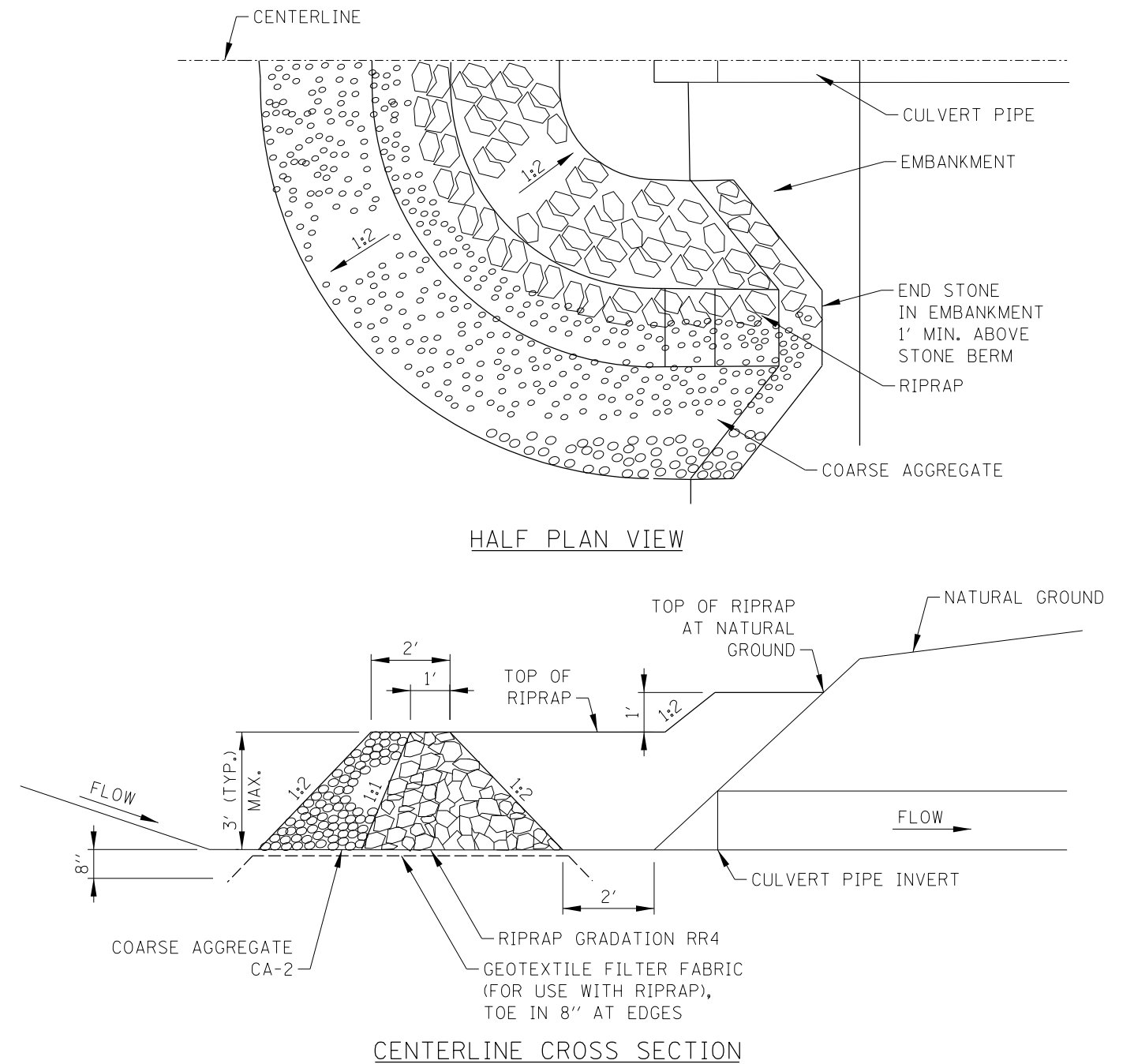
1. CONSTRUCT SUPER SILT FENCE PER SHEET 8 IN THIS SERIES, EXCEPT THE MAXIMUM POST SPACING SHALL BE 3 FEET AND THE TOPS OF POSTS SHALL BE CROSSED BRACED.
2. MAINTENANCE SHALL BE PERFORMED AS NEEDED. SEDIMENT SHALL BE REMOVED WHEN IT REACHES 50% OF THE FENCE HEIGHT.
3. THE CULVERT INLET PROTECTION AND SEDIMENT SHALL BE REMOVED WHEN CONSTRUCTION IS COMPLETE.
4. THE CULVERT INLET PROTECTION - FENCE TO BE MEASURED AND PAID FOR AS SUPER SILT FENCE.

CULVERT INLET PROTECTION - FENCE

STANDARD SYMBOL



APPROVED: Paul Kovacs DATE 2-7-2012
CHIEF ENGINEER



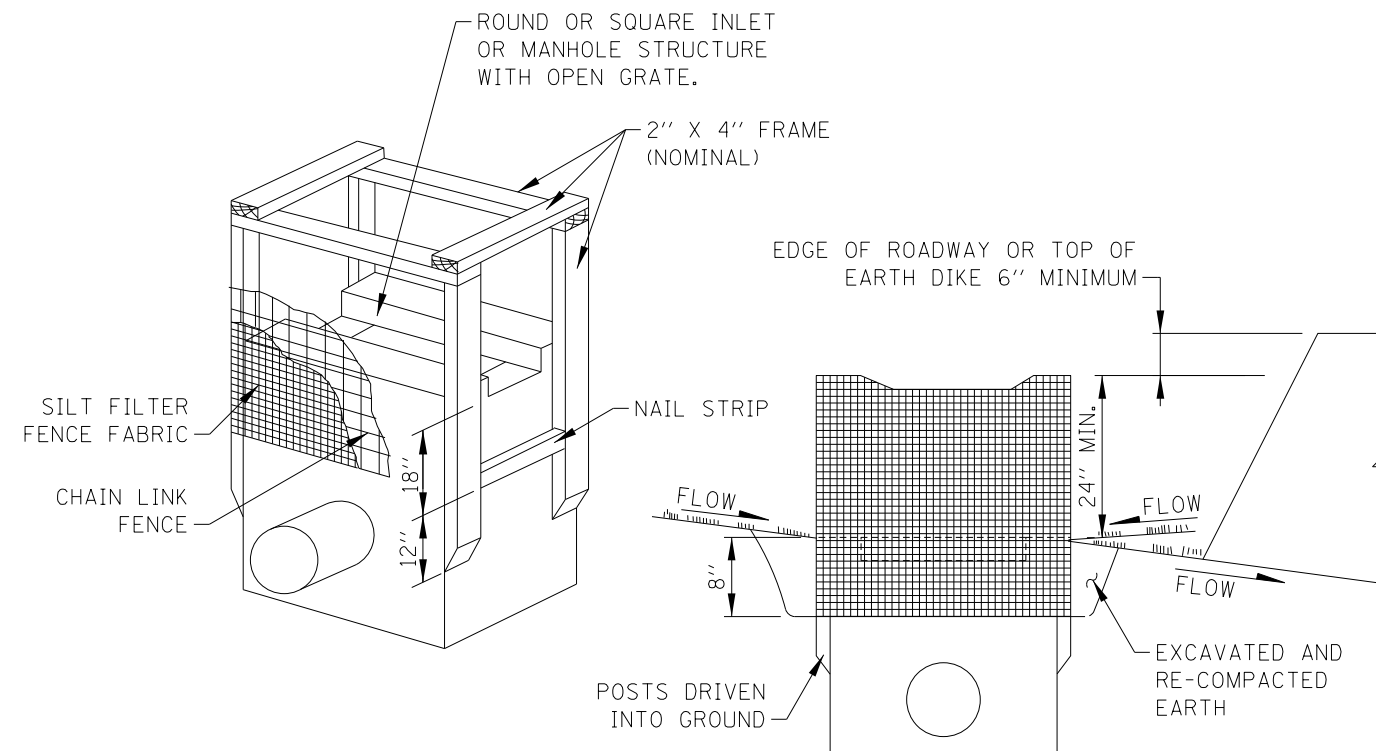
NOTES:

1. MAINTENANCE SHALL BE PERFORMED AS NEEDED. SEDIMENT SHALL BE REMOVED WHEN IT REACHES 50% OF THE STONE HEIGHT.
2. THE CULVERT INLET PROTECTION AND SEDIMENT SHALL BE REMOVED WHEN CONSTRUCTION IS COMPLETE.
3. THE CULVERT INLET PROTECTION - STONE TO BE MEASURED AND PAID FOR AS TEMPORARY RIPRAP.

CULVERT INLET PROTECTION - STONE

STANDARD	SYMBOL
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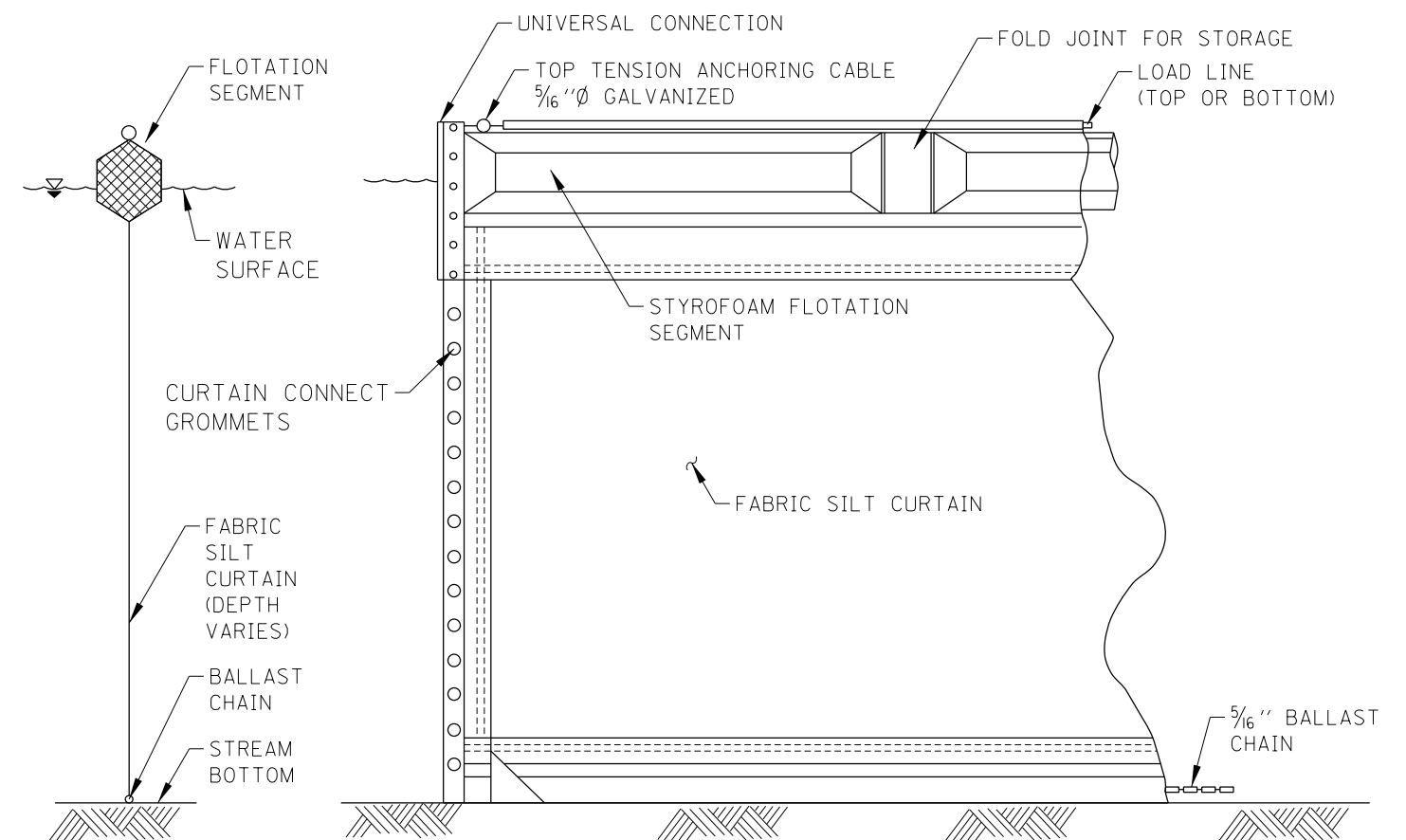




NOTES:

1. WOODEN FRAME IS TO BE CONSTRUCTED OF 2"x4" CONSTRUCTION GRADE LUMBER. IF CONTRACTOR PREFERS, SUPER SILT FENCE CAN BE CONSTRUCTED AROUND THE INLET PER SHEET 8 IN THIS SERIES.
2. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SILT REMOVED WHEN IT REACHES 50% OF FENCE HEIGHT.
3. TO BE USED TO PROTECT EXISTING AND NEW INLETS, CATCH BASINS AND MANHOLES WITH OPEN LIDS IN NON PAVED AREAS.

RECTANGULAR INLET PROTECTION STANDARD SYMBOL



SECTION

ELEVATION

NOTES:

1. FLOTATION BOOM FOR USE IN MOVING WATER SHALL BE ANCHORED TO PREVENT DRIFT SHOREWARD OR DOWNSTREAM. ANCHORAGES SHALL BE INSTALLED ON BOTH SHORE AND STREAM SIDE. BOOMS ARE NOT TO BE INSTALLED ACROSS FLOWING BODY OF WATER.
2. SHORE ANCHORS SHALL CONSIST OF A POST WITH DEADMAN OR APPROVED EQUAL. STREAM ANCHORS SHALL BE OF SUFFICIENT SIZE TO STABILIZE THE BARRIER WITH NUMBER AND SPACING DEPENDENT ON WATERWAY VELOCITIES.
3. FABRIC SECTIONS SHALL BE CONNECTED END TO END WITH MINIMUM 5/8" DIAMETER POLYPROPYLENE ROPE.
4. DESIGN OF BOOM AND ANCHORAGE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. BOTTOM OF BOOM SHALL REACH BOTTOM OF WATERWAY USING ONE VERTICAL SECTION AS REQUIRED.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED. CONTRACTOR SHALL REMOVE THE BOOM AT COMPLETION OF WORK IN A MANNER THAT WILL PREVENT SILTATION OF THE WATERWAY.
6. CONSTRUCTION DEBRIS/MATERIALS SHALL BE REMOVED IMMEDIATELY TO PREVENT DAMAGE TO THE CURTAIN AND ENTRY INTO THE WATERWAY.
7. FLOTATION BOOMS TO BE USED TO CONTROL TURBIDITY AND DEBRIS WHEN WORKING IN WATERWAYS.

FLOTATION BOOM STANDARD SYMBOL

—FB— —FB—

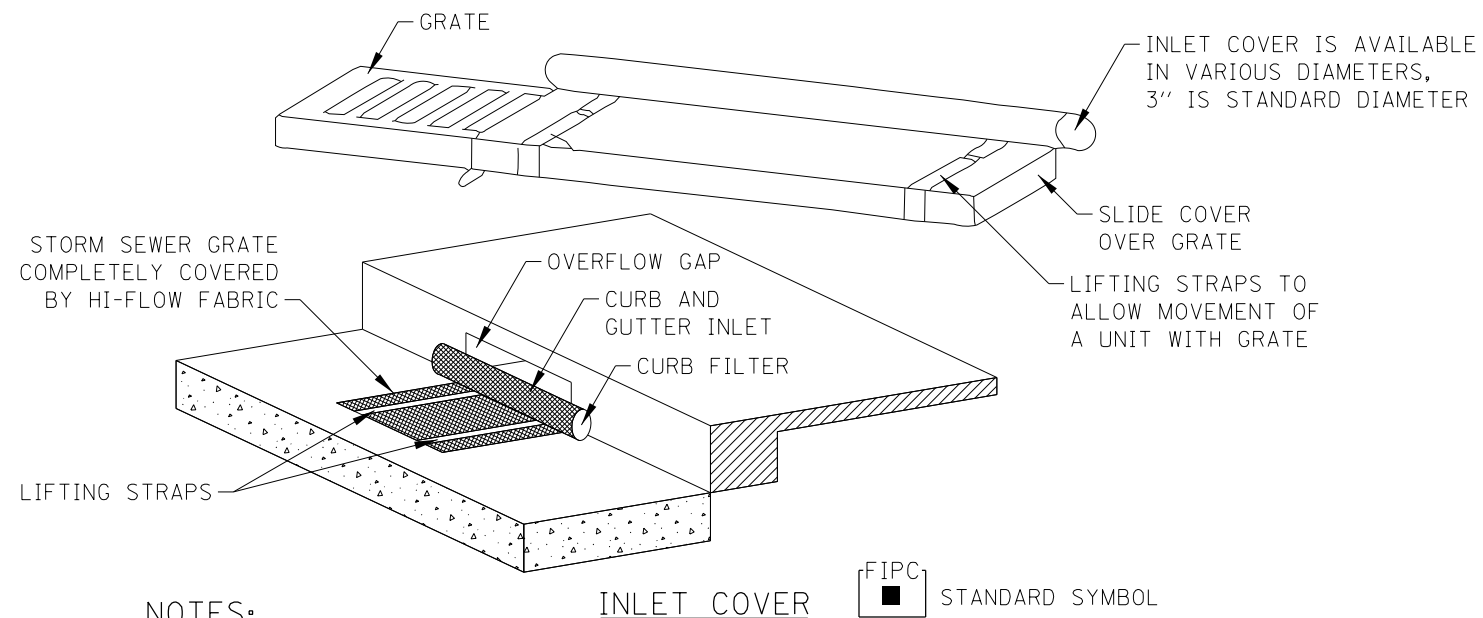
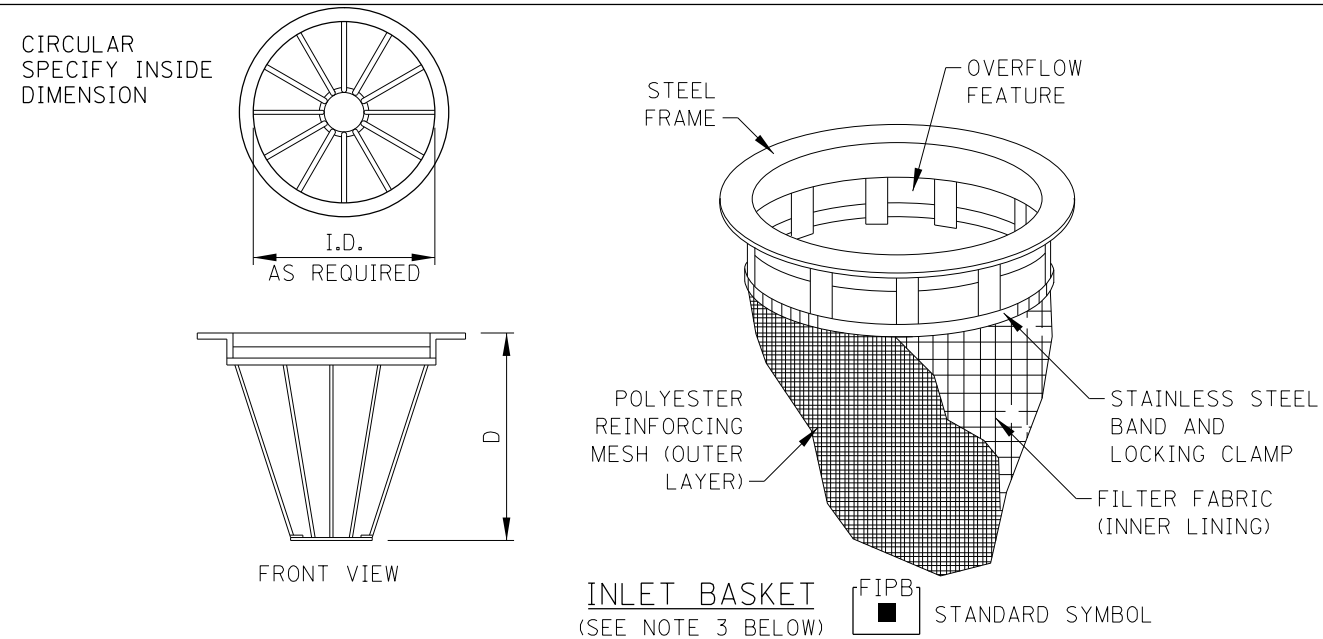
APPROVED *Paul Kovacs* DATE 2-7-2012
CHIEF ENGINEER

SHEET 10 OF 11



TEMPORARY EROSION
AND SEDIMENT CONTROLS

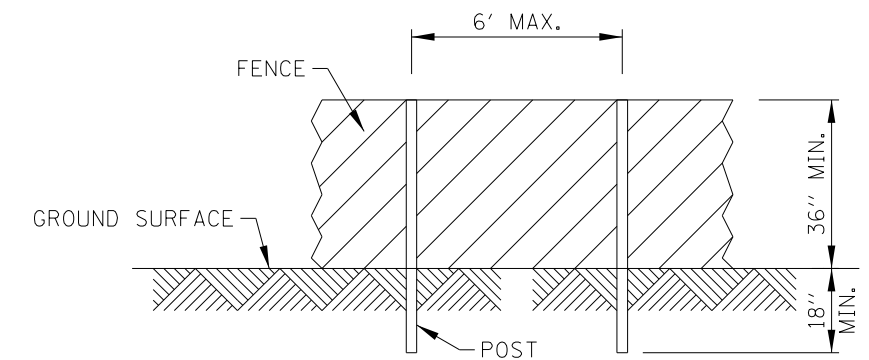
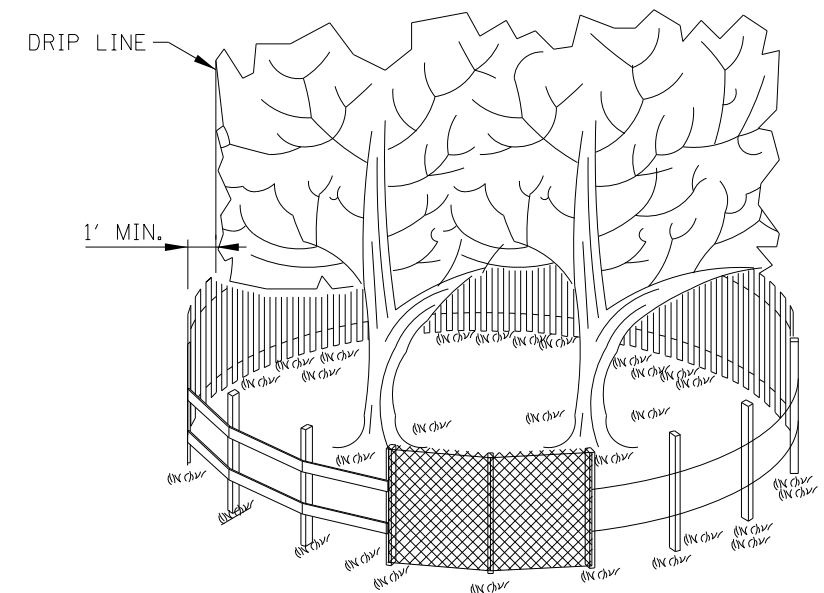
STANDARD K1-05



NOTES:

1. FILTER FABRIC INLET PROTECTION SHALL CONSIST OF INLET BASKET AND FABRIC INSERT, FABRIC INSERT, OR INLET COVER PLACED IN FRONT OF CURB INLET.
2. DEVICE SHALL BE EQUIPPED WITH AN OVERFLOW FEATURE SO DRAINAGE TO INLET IS NOT COMPLETELY BLOCKED IF DEVICE IS FULL OF SILT.
3. INLET BASKET IS AVAILABLE TO FIT ROUND, RECTANGULAR, BEEHIVE OR CURB INLET CASTINGS.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED. REMOVE SILT FROM FABRIC INSERT WHEN 50% OF CAPACITY IS REACHED. REMOVE SILT FROM INTERIOR AND EXTERIOR OF INLET COVER WHEN 50% OF COVER HEIGHT IS REACHED.
5. TO BE USED TO ONLY WITHIN PAVED AREAS WHEN DISTURBED TURF AREAS DRAIN TO PAVED AREAS. USE IN CONJUNCTION WITH ADDITIONAL UPSTREAM PROTECTIVE MEASURES SUCH AS SILT FENCE. INLET COVER NOT TO BE USED AT PAVEMENT SAGS.

FILTER FABRIC INLET PROTECTION

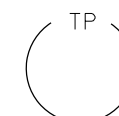


POST AND FENCE DETAIL

NOTES:

1. THE FENCE SHALL BE LOCATED 1 FOOT MINIMUM OUTSIDE THE DRIP LINE OF THE TREE TO BE SAVED AND IN NO CASE CLOSER THAN 5 FEET TO THE TRUNK OF ANY TREE.
2. CONTRACTOR SHALL USE SILT FENCE, PLASTIC FENCE, OR WOOD LATH SNOW FENCE TO PROTECT THE AREA.
3. TO BE USED TO PROTECT TREES FROM DISTURBANCE AND FROM EQUIPMENT TRAVELING OVER THE ROOT ZONE.

TREE PROTECTION STANDARD SYMBOL



SHEET 11 OF 11



TEMPORARY EROSION
AND SEDIMENT CONTROLS

STANDARD K1-05

APPROVED: *Paul Kovacs* DATE: 2-7-2012
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