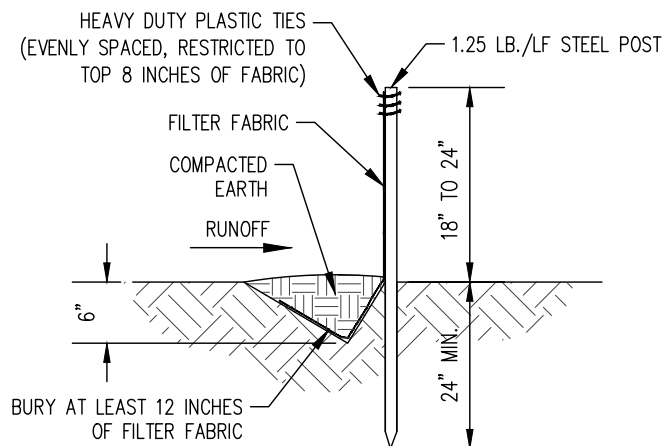


ISOMETRIC VIEW



TRENCH DETAIL

INSTALLATION:

1. SILT FENCES SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
2. INSTALL MINIMUM 10' (OR GREATER AS SPECIFIED ON PLANS) CHECKS (TIE-BACKS) AT END TO PREVENT FLOWS FROM BY-PASSING SILT FENCE, AND EVERY 50'-100' WHERE SILT FENCE IS INSTALLED WITH SLOPE AND CONCENTRATED FLOWS ARE EXPECTED ALONG FENCE.
3. SILT FENCE SLURRY FLOW RATE TO BE 0.3 GPM/FT², LESS THAN THE CLEAR WATER FLOW RATE OF 10 GPM/FT².

INSPECTION AND MAINTENANCE:

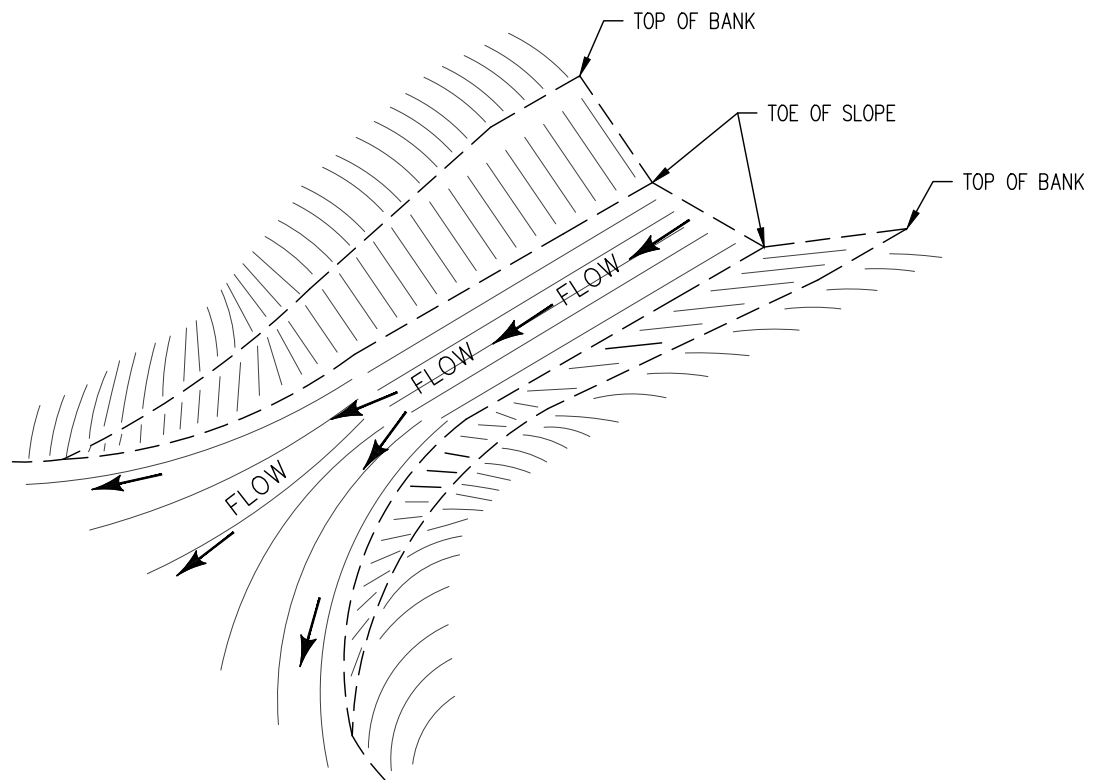
1. INSPECT AND REPAIR SILT FENCE AT LEAST ONCE EVERY CALENDAR WEEK..
2. SEDIMENT SHALL BE REMOVED WHEN IT IS 1/3 THE HEIGHT OF THE SILT FENCE.
3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
4. UPON PROJECT COMPLETION, THE SILT FENCE SHALL BE REMOVED AND HAULED OFF-SITE. ANY DEPOSITED SEDIMENT SHALL BE PROPERLY GRADED AND SEEDED.

SILT FENCE DETAIL

NOT TO SCALE

Detail
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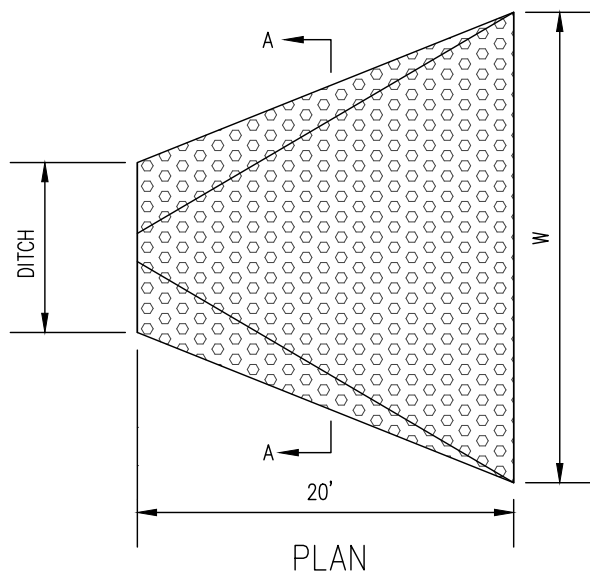


DITCH TAPER NOTES:

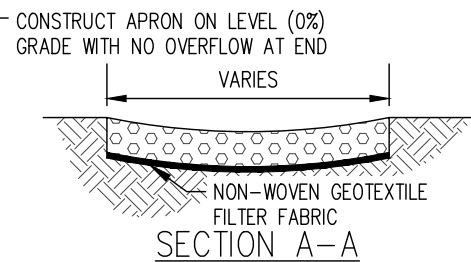
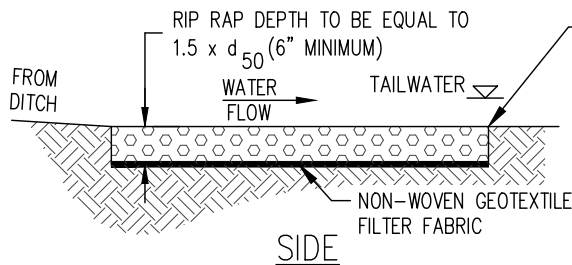
1. TAPER DITCH TO ENSURE THAT SURFACE WATER FLOW IS SPREAD AS MUCH AS POSSIBLE (SHEETFLOW) BEFORE BEING DISCHARGED OFF OF PROPERTY.
2. DITCH TO BE FLARED BEFORE REACHING PROPERTY LINE.

DITCH TAPER DETAIL

NOT TO SCALE



RIP RAP GRADATION CHART		
SEIVE SIZE	% PASSING	
	d50=6"	d50=12"
24"		100%
12"	100%	50%
6"	50%	20%
4"	20%	
2"		0%
1"	0%	



INSTALLATION:

1. ENSURE THAT THE SUBGRADE FOR THE RIP RAP FOLLOWS THE REQUIRED LINES AND GRADES SHOWN ON THE PLANS. COMPACT ANY FILL REQUIRED IN THE SUBGRADE TO THE DENSITY OF THE SURROUNDING UNDISTURBED MATERIAL. LOW AREAS IN THE SUBGRADE ON UNDISTURBED SOIL MAY ALSO BE FILLED BY INCREASING THE RIP RAP THICKNESS.
2. THE RIP RAP MUST CONFORM TO THE SPECIFIED GRADING LIMITS SHOWN.
3. STONE QUALITY – SELECT STONE FOR RIP RAP FROM FIELD STONE OR QUARRY STONE. THE STONE SHOULD BE HARD, ANGULAR, AND HIGHLY WEATHER-RESISTANT. THE SPECIFIC GRAVITY OF THE INDIVIDUAL STONES SHOULD BE AT LEAST 2.5.
4. INSTALL A NON-WOVEN GEOTEXTILE FABRIC FILTER TO PREVENT SOIL MOVEMENT THROUGH THE OPENINGS IN THE RIP RAP.
5. FILTER FABRIC MUST MEET DESIGN REQUIREMENTS AND BE PROPERLY PROTECTED FROM PUNCHING OR TEARING DURING INSTALLATION. REPAIR ANY DAMAGE BY REMOVING THE RIP RAP AND PLACING ANOTHER PIECE OF FILTER FABRIC OVER THE DAMAGED AREA. ALL CONNECTING JOINTS SHOULD OVERLAP A MINIMUM OF 1 FT. IF THE DAMAGE IS EXTENSIVE, REPLACE THE ENTIRE FILTER FABRIC.
6. TAKE CARE TO AVOID DAMAGING THE FILTER FABRIC WHEN PLACING RIP RAP BY EQUIPMENT.
7. IF A STREAM IS PRESENT, ENSURE THE APRON IS PROPERLY ALIGNED WITH THE RECEIVING STREAM AND PREFERABLY STRAIGHT THROUGHOUT ITS LENGTH. IF A CURVE IS NEEDED TO FIT SITE CONDITIONS, PLACE IT IN THE UPPER SECTION OF THE APRON.
8. IMMEDIATELY AFTER CONSTRUCTION, STABILIZE ALL DISTURBED AREAS WITH VEGETATION.

INSPECTION AND MAINTENANCE:

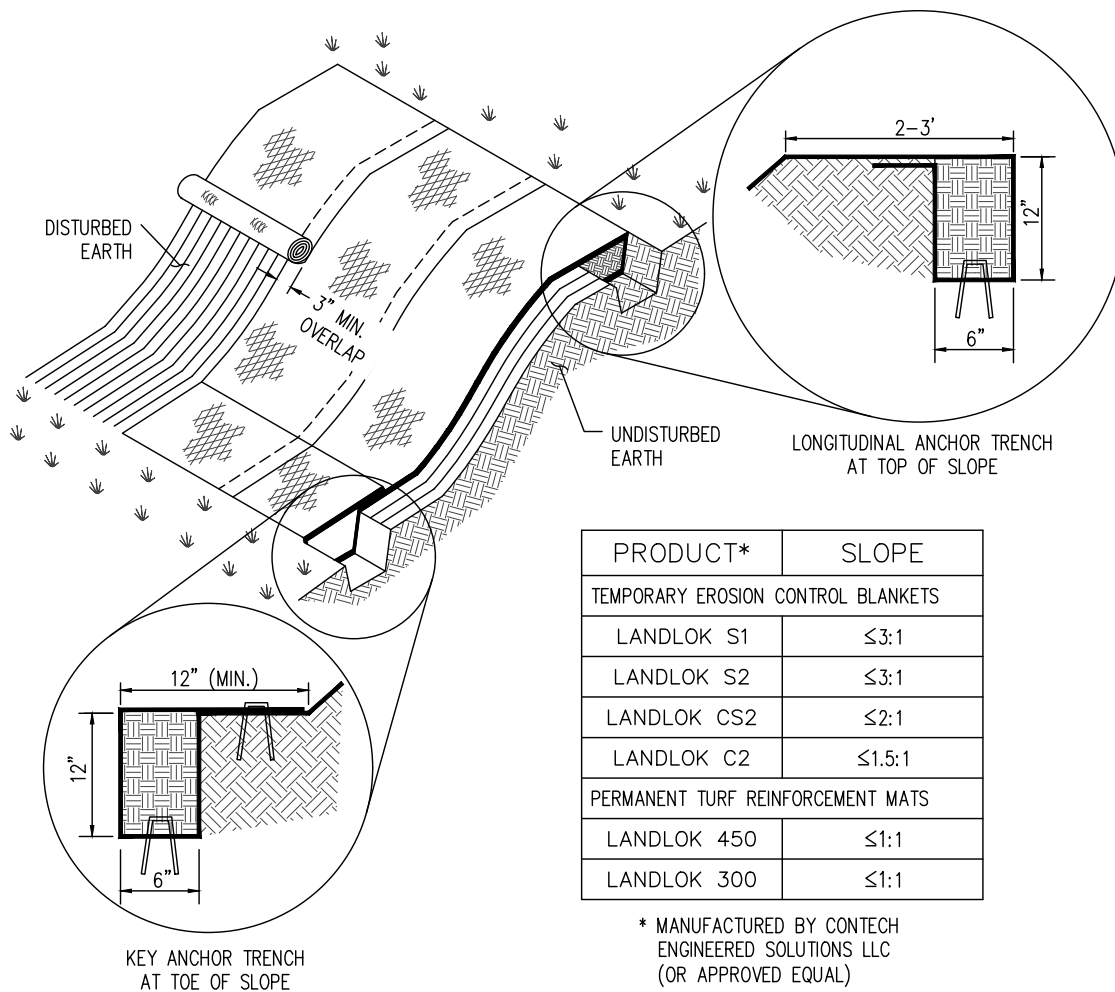
1. INSPECT ALL OUTLET PROTECTION, APRONS, PLUNGE POOLS, AND STRUCTURAL OUTLETS FOR DAMAGE AT LEAST ONCE PER CALENDAR WEEK. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.
2. REMOVE ANY DEBRIS THAT MAY HAVE ACCUMULATED ON THE RIP RAP APRON.
3. IF ANY EVIDENCE OF EROSION OR SCOURING IS APPARENT, MODIFY THE DESIGN TO PROVIDE LONG TERM PROTECTION (KEEPING IN MIND FISH PASSAGE REQUIREMENTS IF APPLICABLE)

RIP RAP OUTLET **PROTECTION DETAIL**

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Detail
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PRODUCT*	SLOPE
TEMPORARY EROSION CONTROL BLANKETS	
LANDLOK S1	$\leq 3:1$
LANDLOK S2	$\leq 3:1$
LANDLOK CS2	$\leq 2:1$
LANDLOK C2	$\leq 1.5:1$
PERMANENT TURF REINFORCEMENT MATS	
LANDLOK 450	$\leq 1:1$
LANDLOK 300	$\leq 1:1$

* MANUFACTURED BY CONTECH
ENGINEERED SOLUTIONS LLC
(OR APPROVED EQUAL)

INSTALLATION:

1. EROSION CONTROL BLANKETS OR TURF REINFORCEMENT MATS ARE REQUIRED ON ALL SLOPES 2:1 OR STEEPER THAT MEET OR EXCEED 6' IN HEIGHT, OR AS NOTED ON PLANS.
2. PREPARE SOIL BEFORE INSTALLING BLANKETS OR MATS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED.
3. EXCAVATE A 12" X 6" LONGITUDINAL ANCHOR TRENCH 2'-3' OVER CREST OF SLOPE.
4. INSTALL TOP END OF MATERIAL INTO TRENCH AND SECURE TO BOTTOM OF TRENCH USING GROUND ANCHORING DEVICES SPACED 12" MAXIMUM. BACKFILL AND COMPACT SOIL INTO TRENCH.
5. UNROLL MATERIAL DOWN SLOPE, WITH NET ON TOP.
6. UNROLL MATERIAL IN A MANNER TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT PULL TAUT. SECURE TO GROUND SURFACE USING ANCHORING DEVICES AND PATTERN AS RECOMMENDED BY THE MANUFACTURER.
7. OVERLAPS OF ADJACENT ROLLS SHALL BE 6" MINIMUM AND ANCHORED EVERY 12" ALONG THE OVERLAP. OVERLAPS ARE SHINGLED AWAY FROM PREVAILING WINDS.
8. EXCAVATE A 12" X 6" KEY ANCHOR TRENCH AT TOE OF SLOPE.
9. INSTALL BOTTOM END OF MATERIAL INTO TRENCH AND SECURE TO BOTTOM OF TRENCH USING GROUND ANCHORING DEVICES SPACED 12" MAXIMUM. BACKFILL AND COMPACT SOIL IN TRENCH.

INSPECTION AND MAINTENANCE:

1. IRRIGATE AS NECESSARY TO ESTABLISH/MAINTAIN VEGETATION. DO NOT OVER-IRRIGATE.
2. INSPECT AREAS PROTECTED BY EROSION CONTROL BLANKETS AND TURF REINFORCEMENT MATS ONCE EVERY CALENDAR WEEK FOR DISLOCATION OR FAILURE.
3. IF THERE IS EVIDENCE THAT THE BLANKET OR MAT IS NOT SECURELY FASTENED TO THE SOIL, PROVIDE ADDITIONAL PINS OR STAPLES.
4. IF WASHOUT OR BREAKAGE OCCURS, REPAIR ALL DAMAGED AREAS IMMEDIATELY BY RESTORING THE SOIL TO FINISHED GRADE, RE-APPLY FERTILIZER AND SEED, AND REPLACE THE BLANKET OR MAT MATERIAL AS NEEDED.

EROSION CONTROL BLANKET AND MATTING DETAIL

NOT TO SCALE

Detail
NOT TO SCALE

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