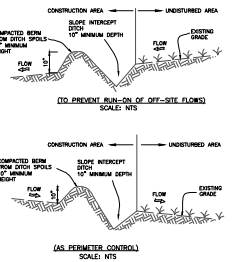
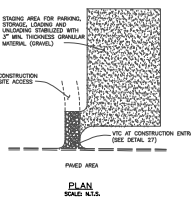
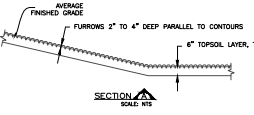
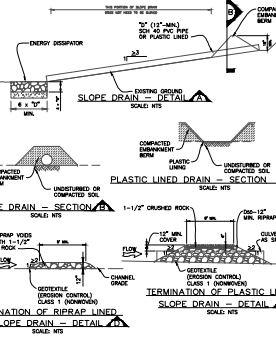
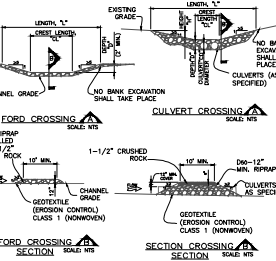
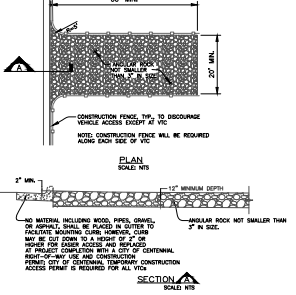
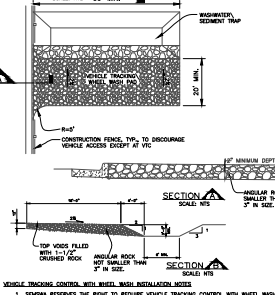


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UTILITY NOTIFICATION CENTER OF COLORADO CALL BEFORE YOU DIG 811 Call 2 days prior to any digging, grading or excavating for the marking of underground member utilities	SOUTHEAST METRO STORMWATER AUTHORITY 7437 SOUTH FAIRPLAY STREET CENTENNIAL COLORADO 80112-4486 (303) 858-8844 • INSPECTION DIVISION			GRADING EROSION AND SEDIMENT CONTROL STANDARD NOTES AND DETAILS REVISED APRIL 2019	GESC SHEET 1 OF 4
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 SLOPE INTERCEPT DITCH INSTALLATION NOTES 1. MATERIALS CUT OUT OF DITCH TO FORM A COMPACTED BEAM ADJACENT TO AND ON THE CONSTRUCTION AREA SIDE OF DITCH. 2. SLOPE INTERCEPT DITCH SHALL HAVE A MINIMUM DEPTH OF 10". 3. COMPACTED BEAM SHALL HAVE A MINIMUM HEIGHT OF 10". 4. SLOPE INTERCEPT DITCH SHALL BE CUT IN THE CENTER. 5. SLOPE INTERCEPT DITCH CAN BE USED IN PLACE OF SILT FENCE (SF) AND SEDIMENT CONTROL LOGS (SCL). 6. SEE PLAN VIEW FOR LOCATION. SLOPE INTERCEPT DITCH MAINTENANCE NOTES 1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE. 2. SEDIMENT ACCUMULATED IN DITCH SHALL BE REMOVED WHEN DITCH REACHES 1/2 FULL. REMOVED SEDIMENT SHALL BE PLACED ON AND COMPACTED WITH THE ADJACENT BEAM. 3. BEAM MATERIAL IN DITCH UPON COMPLETION OF CONSTRUCTION, ALL DISTURBED AREAS TO BE RESEED AND CRIMP MAINTAINED PER DETAIL 10. 22 SLOPE INTERCEPT DITCH	 STABILIZED STAGING AREA INSTALLATION NOTES 1. SEE PLAN VIEW FOR GENERAL LOCATION OF STAGING AREA. CONTRACTOR MAY MODIFY LOCATION AND SIZE OF STABILIZED STAGING AREA WITH PERMIT APPROVAL. 2. STABILIZED STAGING AREA SHALL BE SUFFICIENTLY TO FULLY CONTAIN PARKING, STORAGE, AND UNLOADING AND LOADING OPERATIONS SHALL BE LIMITED TO FULLY CONTAIN PARKING, STORAGE, AND UNLOADING AND LOADING OPERATIONS. 3. IF REQUIRED BY SEVERAL SITE ACCESS ROADS SHALL BE STABILIZED IN THE SAME MANNER AS THE STAGING AREA. 4. STAGING AREA SHALL BE STABILIZED PRIOR TO ANY OTHER OPERATIONS ON THE SITE. 5. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM OF 2" OF GRANULAR MATERIAL (SMALL). STABILIZED STAGING AREA MAINTENANCE NOTES 1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE. 2. GESC MANAGER SHALL PROVIDE ADDITIONAL THICKNESS OF GRANULAR MATERIAL IF ANY PUTTING OCCURS OR UNDESIRABLE EROSION BECOMES EXPOSED. 3. STABILIZED STAGING AREA SHALL BE MAINTAINED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING AND LOADING OPERATIONS. 4. ANY ACCUMULATED SEDIMENT OR DEBRIS SHALL BE REMOVED FROM THE SURFACE OF THE STABILIZED STAGING AREA. 5. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE RECOVERED OR, IF APPROVED BY SEVERAL, USED ON SITE, AND THE AREA TOPGRADED, SILL, SEEDS AND CRIMP MAINTAINED OR OTHERWISE STABILIZED. 23 STABILIZED STAGING AREA	 SURFACE ROUGHENING INSTALLATION NOTES 1. SURFACE ROUGHENING SHALL BE PROVIDED ON ALL FINISHED GRADES (SLOPES AND "FLAT" AREAS) WITHIN 2 FEET OF COMPLETION OF FINISHED GRADES (FOR AREAS NOT RECLAIMED TOPSOIL) OR WITHIN 1 DAY OF TOPSOIL FILLING. 2. AREAS WHERE BUILDING FOUNDATIONS, PAVEMENT, OR SOG IS TO BE PLACED WITHIN 7-DAYS OF FINISHED GRADING DO NOT NEED TO BE SURFACE ROUGHENED. 3. DISTURBED SURFACES SHALL BE REROUGHENED USING PAVING OR TILTING EQUIPMENT ON THE CONTOUR OR TRACKING UP AND DOWN A SLOPE USING EQUIPMENT TREADS. SURFACE ROUGHENING MAINTENANCE NOTES 1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE. 2. VEHICLES AND EQUIPMENT SHALL BE LIMITED TO ACCESS DRIVES AND SHALL NOT BE DRIVEN OVER AREAS THAT HAVE BEEN SURFACE ROUGHENED. 3. IN NON-FLAT GRADE AREAS, VEHICLES AND MACHINES SHALL TAKE PLACES DIRECTLY OVER SURFACE ROUGHENED AREAS WITHOUT FIRST SMOOTHING OUT THE SURFACE. 4. IF AREAS NOT RESEED AND MAINTAINED AFTER SURFACE ROUGHENING, SURFACES SHALL BE RE-ROUGHENED AS NECESSARY TO MAINTAIN GROOVE DEPTH AND SMOOTH OVER ANY HILL CROSSLAND. 24 SURFACE ROUGHENING	 TEMPORARY SLOPE DRAIN INSTALLATION NOTES 1. SEE PLAN VIEW FOR LOCATION AND LENGTH OF SLOPE DRAIN. 2. PIPE DIAMETER, "12", AND RAMP SIZE, "36". 3. SLOPE DRAIN DIMENSIONS SHALL BE CONSIDERED MINIMUM DIMENSIONS. CONTRACTOR MAY ELECT TO INSTALL LARGER FACILITIES ANY CHANGE TO SLOPE OR SLOPE DRAIN DURING RAINY EVENTS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. 4. SLOPE DRAIN INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED PRIOR TO ANY UPSTREAM LAND-DEVELOPING ACTIVITIES. 5. FOR TEMPORARY SLOPE DRAIN, PIPE MAY BE INSTALLED ON TOP OF SLOPE HOWEVER, 12" MIN. COVER AT TOP OF SLOPE SHALL BE PROVIDED. 6. AN ENERGY DISSIPATOR SHALL BE PLACED AT THE OUTLET OF THE SLOPE DRAIN. TEMPORARY SLOPE DRAIN MAINTENANCE NOTES 1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE. 2. SEDIMENT ACCUMULATED UPSTREAM OF STREAM CROSSINGS SHALL BE REMOVED WHEN THE SEDIMENT DEPTH UPSTREAM OF CROSSING IS WITHIN 50% OF THE CREST (FOR CROSSING) OR GREATER THAN AN AVERAGE DEPTH OF 50% (FOR CULVERT CROSSING). 3. STREAM CROSSINGS ARE TO REMAIN IN PLACE UNTIL NO LONGER NEEDED, BUT SHALL BE REMOVED PRIOR TO THE END OF CONSTRUCTION. 4. WHEN STREAM CROSSINGS ARE REMOVED, THE DISTURBED AREA SHALL BE SILL, SEEDS AND CRIMP MAINTAINED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY SEVERAL. 25 TEMPORARY SLOPE DRAIN	 TEMPORARY STREAM CROSSING INSTALLATION NOTES 1. SEE PLAN VIEW FOR LOCATION OF TEMPORARY STREAM CROSSING. 2. TEMPORARY STREAM CROSSING DIMENSIONS, SILL, AND NUMBER OF CULVERTS INDICATED FOR CULVERT CROSSING SHALL BE CONSIDERED MINIMUM DIMENSIONS. CONTRACTOR MAY ELECT TO INSTALL LARGER FACILITIES ANY CHANGE TO STREAM DIMENSIONS OR EXISTING STREAM CHANNEL DURING RAINFALL OR FLOOD EVENTS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. 3. SEE SHEET 1 FOR RAMP AND 1-1/2" CRUSHED ROCK GRADATIONS. 4. FOR A TEMPORARY STREAM CROSSING THAT WILL CARRY LOADS, THE TEMPORARY STREAM CROSSING MUST BE DESIGNED BY THE DESIGN ENGINEER, AND NOT USED IF APPROVED BY SEVERAL. TEMPORARY STREAM CROSSING MAINTENANCE NOTES 1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE. 2. SEDIMENT ACCUMULATED UPSTREAM OF STREAM CROSSINGS SHALL BE REMOVED WHEN THE SEDIMENT DEPTH UPSTREAM OF CROSSING IS WITHIN 50% OF THE CREST (FOR CROSSING) OR GREATER THAN AN AVERAGE DEPTH OF 50% (FOR CULVERT CROSSING). 3. STREAM CROSSINGS ARE TO REMAIN IN PLACE UNTIL NO LONGER NEEDED, BUT SHALL BE REMOVED PRIOR TO THE END OF CONSTRUCTION. 4. WHEN STREAM CROSSINGS ARE REMOVED, THE DISTURBED AREA SHALL BE SILL, SEEDS AND CRIMP MAINTAINED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY SEVERAL. 26 TEMPORARY STREAM CROSSING
 VEHICLE TRACKING CONTROL INSTALLATION NOTES 1. VEHICLE TRACKING CONTROL PADS SHALL BE INSTALLED AT EVERY EXIT POINT OF THE SITE. 2. VEHICLE TRACKING CONTROL PADS SHALL CONSIST OF HARD, DENSE, DURABLE STONE, AVAILABLE IN SHAPE AND RESISTANT TO WEATHERING, ROUNDED STONE OR BOLLERS WILL NOT BE ACCEPTABLE. THE STONES SHALL NOT BE SMALLER THAN 3" IN SIZE. THE STONE SHALL HAVE A SPECIFIC GRAVITY OF AT LEAST 2.4. 3. ANY CRACKED OR DAMAGED CURB AND GUTTER AND SIDEWALK SHALL BE REPLACED BY PERMITTEE. VEHICLE TRACKING CONTROL MAINTENANCE NOTES 1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE. 2. VEHICLE TRACKING CONTROL PADS SHALL BE REMOVED WHEN THE SEDIMENT DEPTH REACHES AN AVERAGE OF 50%. 3. VEHICLE TRACKING CONTROL WITH WHEEL WASH FACILITY SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE HARD MATERIAL REMOVED SHALL BE RECOVERED OR, IF APPROVED BY SEVERAL, USED ON SITE, AND THE AREA TOPGRADED, SILL, SEEDS AND CRIMP MAINTAINED OR OTHERWISE STABILIZED. 27 VEHICLE TRACKING CONTROL	 VEHICLE TRACKING CONTROL WITH WHEEL WASH INSTALLATION NOTES 1. SEVERAL RESERVES THE RIGHT TO REQUIRE VEHICLE TRACKING CONTROL WITH WHEEL WASH FACILITY AT SITES WHERE TRACKING INTO PAVED AREAS BECOMES A SIGNIFICANT PROBLEM. 2. IF VEHICLE TRACKING CONTROL WITH WHEEL WASH FACILITY ARE REQUIRED, ALL WHEELS ON EXISTING VEHICLES ENTERING THE SITE SHALL BE WASHED AT A WASH FACILITY. 3. VEHICLE TRACKING CONTROL WITH WHEEL WASH FACILITY SHALL CONSIST OF HARD, DENSE, DURABLE STONE, AVAILABLE IN SHAPE AND RESISTANT TO WEATHERING, ROUNDED STONE OR BOLLERS WILL NOT BE ACCEPTABLE. THE STONES SHALL NOT BE SMALLER THAN 3" IN SIZE. THE STONE SHALL HAVE A SPECIFIC GRAVITY OF AT LEAST 2.4. 4. ANY CRACKED OR DAMAGED CURB AND GUTTER AND SIDEWALK SHALL BE REPLACED BY CONTRACTOR. VEHICLE TRACKING CONTROL WITH WHEEL WASH MAINTENANCE NOTES 1. THE GESC MANAGER SHALL INSPECT AS NECESSARY TO ENSURE THE ADEQUACY AND FUNCTIONALITY OF THE CONTROL MEASURE. 2. ACCUMULATED SEDIMENT IN THE WASHWATER/SEDIMENT TRAP SHALL BE REMOVED WHEN THE SEDIMENT DEPTH REACHES AN AVERAGE OF 50%. 3. VEHICLE TRACKING CONTROL WITH WHEEL WASH FACILITY SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE HARD MATERIAL REMOVED SHALL BE RECOVERED OR, IF APPROVED BY SEVERAL, USED ON SITE, AND THE AREA TOPGRADED, SILL, SEEDS AND CRIMP MAINTAINED OR OTHERWISE STABILIZED. 28 VTC WITH WHEEL WASH			