

LAND GRADING FOR MINIMIZING EROSION

- ONLY DISTURB, CLEAR, OR GRADE AREAS NECESSARY FOR CONSTRUCTION. FLAG OR OTHERWISE DELINEATE AREAS NOT TO BE DISTURBED. EXCLUDE VEHICLES AND CONSTRUCTION EQUIPMENT FROM THESE AREAS TO PRESERVE.
- ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN UNTIL THEY ARE PERMANENTLY STABILIZED.
- ALL SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND ACCORDING TO THE STANDARDS AND SPECIFICATIONS FOR THE APPROPRIATE EROSION CONTROL PRACTICES.
- IF TOPSOIL IS REQUIRED FOR THE ESTABLISHMENT OF VEGETATION, IT SHALL BE STOCKPILED IN THE AMOUNT NECESSARY TO COMPLETE FINISHED GRADING AND PROTECTED FROM EROSION DURING THE INTERIM.
- AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL, AND STRIPPED OF TOPSOIL.
- AREAS TO RECEIVE TOPSOIL SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 INCHES (76 MM) PRIOR TO PLACEMENT OF TOPSOIL.
- ALL FILLS SHALL BE COMPACTED AS REQUIRED BY BUILDING STANDARDS TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE AND OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES, CONDUITS, ETC., SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- THE OUTER FACE OF THE FILL SLOPE SHOULD BE ALLOWED TO STAY LOOSE, NOT ROLLED, COMPACTED, OR BLADED SMOOTH. A BULLDOZER MAY RUN UP AND DOWN THE FILL SLOPE SO THE DOZER TREADS (CLEAT TRACKS) CREATE GROOVES PERPENDICULAR TO THE SLOPE. IF THE SOIL IS NOT TOO MOIST, EXCESSIVE COMPACTION WILL NOT OCCUR.
- ALL FILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 8 INCHES (0.2 M) PER LIFT.
- USE SLOPE BREAKS, SUCH AS DIVERSIONS, BENCHES, OR CONTOUR FURROWS AS APPROPRIATE, TO REDUCE THE LENGTH OF CUT-AND-FILL SLOPES TO LIMIT SHEET AND RILL EROSION AND PREVENT GULLY EROSION. THE FINISHED CUT-AND-FILL SLOPES, WHICH ARE TO BE VEGETATED WITH GRASS AND LEGUMES, SHOULD NOT BE STEEPER THAN 2:1.
- SLOPES TO BE MAINTAINED BY TRACTOR OR OTHER EQUIPMENT SHOULD NOT BE STEEPER THAN 3:1.
- SLOPES IN EXCESS OF 2:1 MAY REQUIRE HYDROSEEDING, HYDROMULCHING, TACTIFYING, AND/OR "PUNCHING-IN" STRAW, BIOENGINEERING TECHNIQUES, OR RETAINING WALLS.
- ROUGHEN THE SURFACE OF ALL SLOPES DURING THE CONSTRUCTION OPERATION TO RETAIN WATER, INCREASE INFILTRATION, AND FACILITATE VEGETATION ESTABLISHMENT.
- SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH APPROVED METHODS.
- STABILIZE ALL GRADED AREAS WITH VEGETATION, CRUSHED STONE, RIPRAP, OR OTHER GROUND COVER AS SOON AS GRADING IS COMPLETED OR IF WORK IS INTERRUPTED FOR 21 WORKING DAYS OR MORE.
- USE MULCH TO STABILIZE AREAS TEMPORARILY WHERE FINAL GRADING MUST BE DELAYED.
- STOCKPILES, BORROW AREAS AND SPOIL AREAS SHALL BE SHOWN ON THE PLANS AND SHALL BE STABILIZED TO PREVENT EROSION AND SEDIMENTATION.

SPILL RESPONSE PLAN

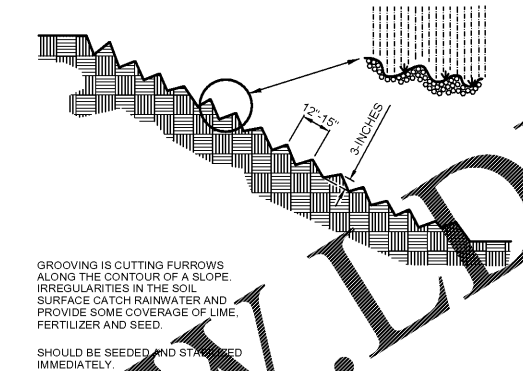
THE GOAL OF THE SPILL RESPONSE PLAN IS TO REDUCE SAFETY, HEALTH, AND ENVIRONMENTAL RISKS ASSOCIATED WITH A HAZARDOUS SUBSTANCE INCIDENT. IN THE EVENT OF A SPILL, THE FOLLOWING ACTIONS SHOULD BE IMPLEMENTED:

- SECURE AND EVACUATE THE AREA - KEEP UNAUTHORIZED PERSONS OUT OF THE AREA.
- REPORT THE SPILL - ALL SPILLS >5 GALLONS MUST BE IMMEDIATELY REPORTED TO THE FIRE DEPARTMENT AT 911.
- SPILLS THAT ARE <5 GALLONS MUST BE REPORTED IF THE SPILL ENTERS A STORM DRAIN, CREEK, LAKE, OR OTHER BODY OF WATER, OR CANNOT BE SAFELY CONTAINED AND CLEANED UP BY ORGANIZATION PERSONNEL.
- PROVIDE ANY PERTINENT INFORMATION, INCLUDING:
 - SUBSTANCE SPILLED
 - LOCATION OF SPILL
 - NATURE AND EXTENT OF INJURIES
 - EXTENT TO WHICH SPILL TRAVELED
 - ESTIMATED AMOUNT SPILLED
 - TIME SPILL OCCURRED
- PROTECT YOURSELF - EXTINGUISH SMOKING MATERIAL AND IGNITION SOURCES. IDENTIFY THE SUBSTANCE SPILLED AND OBTAIN APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT, SUCH AS:
 - PROTECTIVE GOGGLES
 - PROTECTIVE APRON
 - RUBBER OVERBOOTS
 - COMPATIBLE RUBBER GLOVES
 - RESPIRATORS
- STOP THE FLOW - STOP OR SLOW FLOW OF HAZARDOUS SUBSTANCE IF IT CAN BE DONE SAFELY.
 - PLUG OR PATCH PUNCTURED CONTAINERS
 - UPRIGHT OVERTURNED OR TIPPED CONTAINERS
 - CLOSE APPROPRIATE VALVES
- CONTAIN THE SPILL - THE SPILLED SUBSTANCE SHOULD BE CONTAINED WITHIN THE IMMEDIATE AREA. PREVENT FLOW TOWARDS DRAINS, DRAINAGE DITCHES, AND SEWER SYSTEMS IF IT CAN BE DONE SAFELY.
 - PLACE NONREACTIVE ABSORBENT MATERIAL SUCH AS SAND, EARTH, STRAW, VERMICULITE, ABSORBENT PILLOWS OR BOOMS ON THE SPILL.
 - BLOCK THE SPILL FROM ENTERING STORM DRAINS OR SEWERS BY CONSTRUCTING A DIKE AROUND ALL POINTS OF ENTRY.
 - IF THE SPILL IS ON THE GROUND, CLEAN IT UP IMMEDIATELY BY DIGGING UP THE CONTAMINATED SOIL, PLACING IT IN PROPER CONTAINERS, AND DISPOSING OF IT PROPERLY.

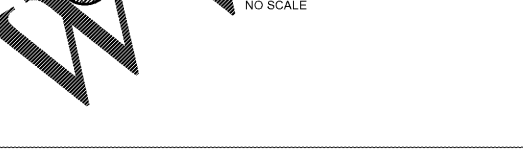
DUST CONTROL BY IRRIGATION

- THE CONTRACTOR SHALL CONDUCT OPERATIONS AND MAINTAIN THE PROJECT SITE SO AS TO MINIMIZE THE CREATION AND DISPERSION OF DUST. DUST CONTROL SHALL BE USED THROUGHOUT THE WORK AT THE SITE.
- THE CONTRACTOR MUST PROVIDE CLEAN WATER, FREE FROM SALT, OIL AND OTHER DELETERIOUS MATERIALS TO BE USED FOR ON-SITE DUST CONTROL.
- THE CONTRACTOR SHALL SUPPLY WATER SPRAYING EQUIPMENT CAPABLE OF ACCESSING ALL WORK AREAS.
- THE CONTRACTOR SHALL IMPLEMENT STRICT DUST CONTROL MEASURES DURING ACTIVE CONSTRUCTION PERIODS ON-SITE. THESE CONTROL MEASURES WILL GENERALLY CONSIST OF WATER APPLICATIONS THAT SHALL BE APPLIED A MINIMUM OF ONCE PER DAY DURING DRY WEATHER OR MORE OFTEN AS REQUIRED TO PREVENT DUST EMISSIONS.
- FOR WATER APPLICATION TO UNDISTURBED OIL SURFACES, THE CONTRACTOR SHALL:
 - APPLY WATER WITH EQUIPMENT CONSISTING OF TANK, SPRAY BAR, PUMP DISCHARGE PRESSURE GAUGE.
 - ARRANGE SPRAY BAR HEIGHT, NOZZLE SPACING AND SPRAY PATTERN TO PROVIDE COMPLETE COVERAGE OF GROUND WATER.
 - DISPERSE WATER THROUGH NOZZLES ON SPRAY BAR AT 20 PSI MINIMUM. KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS PONDING.
- FOR WATER APPLICATION TO SOIL SURFACES DURING DEMOLITION AND/OR EXCAVATION, THE CONTRACTOR SHALL:
 - APPLY WATER WITH EQUIPMENT CONSISTING OF A TANK, PUMP WITH DISCHARGE GAUGE, HOSES AND MIST NOZZLES.
 - LOCATE TANK AND SPRAYING EQUIPMENT SO THAT THE ENTIRE EXCAVATION AREA CAN BE MISTED WITHOUT INTERFERING WITH DEMOLITION AND/OR EXCAVATION EQUIPMENT OR OPERATIONS.
 - KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS PONDING.
 - APPLY WATER SPRAY IN A MANNER TO PREVENT MOVEMENT OF SPRAY BEYOND CONSTRUCTION BOUNDARIES.
- CONTRACTOR SHALL REFER TO "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" LATEST EDITION FOR ADDITIONAL INFORMATION ON TEMPORARY AND PERMANENT DUST CONTROL BMP'S.

CONSTRUCTION ROAD STABILIZATION

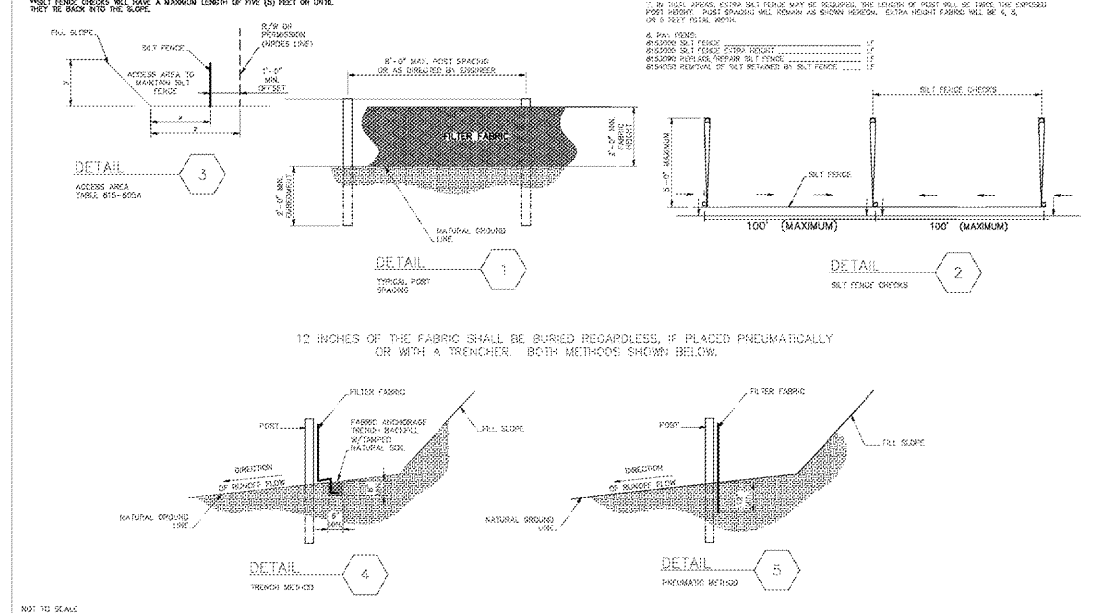


EC-03 SLOPE GROOVING

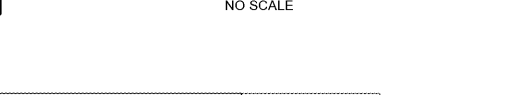


HEIGHT OF FILL OR SLOPE IN FEET	MINIMUM SILT FENCE OFFSET FROM TOE OF SLOPE IN FEET	MINIMUM SLOPE OF ANY CUT FROM TOP OF SLOPE TO SILT FENCE IN FEET	CHECKED LENGTH IN FEET
<6	2	3	2
6-10	3	4	3
10-15	4	5	4

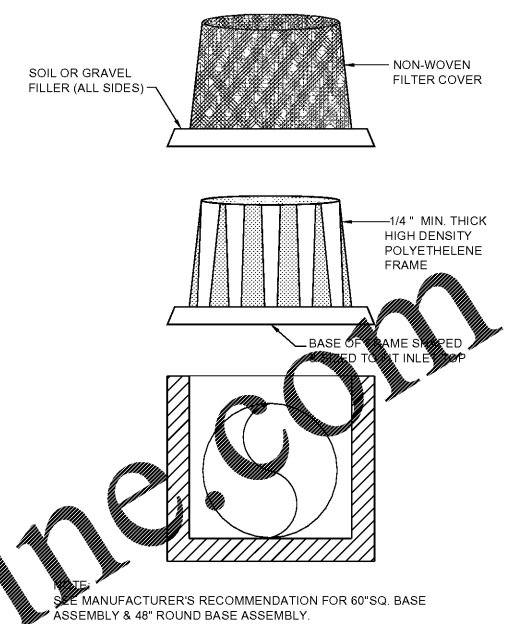
SEE 815-605-10 FOR TEMPORARY DIVERSION DIKE
SEE 815-605-20 FOR TEMPORARY SILT DITCH
SEE 815-605-30 FOR ROLLED EROSION CONTROL PRODUCT



RIGID INLET SEDIMENT TRAP-SILT SAVER



- TYPICAL CONSTRUCTION SEQUENCE FOR SILT-SAVER FRAME & FILTER
- EXCAVATE APPROXIMATELY 4" TO 6" BELOW THE TOP OF THE INLET STRUCTURE.
 - PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.
 - SLIDE THE FILTER OVER THE FRAME.
 - FILL THE FILTER POCKETS WITH SOIL #57 GRAVEL OR EQUIVALENT. THE FILTER POCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE GROUND AND INLET STRUCTURE.
 - BACK FILL AROUND THE FRAME AND FILTER ASSEMBLY IS NOT REQUIRED TO COMPLETE INSTALLATION; HOWEVER, BACK FILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.



NO.	DATE	DESCRIPTION
1	10/08/20	ISSUED FOR BID
2	10/08/20	BY
3	10/08/20	BY
4	10/08/20	BY
5	10/08/20	BY
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CLIENT: CITY OF NORTH AUGUSTA, SC
100 GEORGIA AVENUE, NORTH AUGUSTA, SC 29841
PROJECT NAME: NORTH AUGUSTA FIRE STATION 1 RELOCATION
PROJECT LOCATION: 311 W. MARTINTOWN ROAD, NORTH AUGUSTA, SC 29841

Professional Engineer Seal for William J. Byrnes, No. 212842, State of South Carolina.

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PROJECT NO. 3057.2003
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