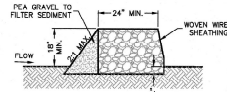


EARTHEN BERM AND SPILLWAY

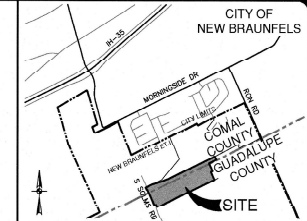
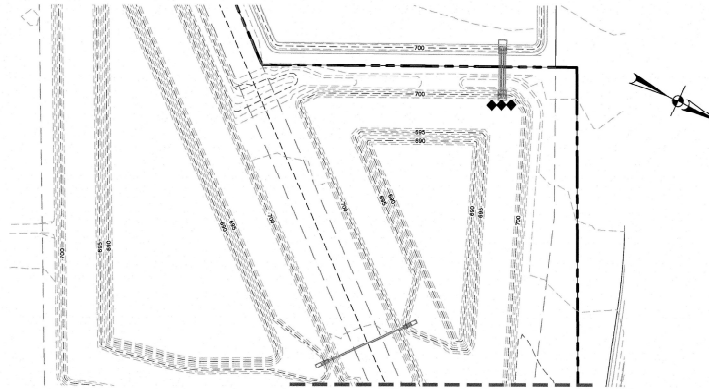
NOT TO SCALE

NOTE: EARTHEN BERMS ARE TO SPAN ACROSS PROPOSED STREET SECTION (APPROX. 30-FOOT WIDE) FROM CURB TO CURB



ROCK BERM W/ PEA GRAVEL

NOT TO SCALE



LOCATION MAP

NOT-TO-SCALE



### SWPPP LEGEND

PROJECT LIMITS	---
EXISTING CONTOUR	---
PROPOSED CONTOUR	---
FLOW ARROW (EXISTING)	---
FLOW ARROW (PROPOSED)	---
SILT FENCE	---
ROCK BERM	---
GRAVEL FILTER BAGS	---
GRATE INLET PROTECTION	---
SEDIMENT CONTROL ROLLS	---
LIMITS OF DISTURBED AREA	---
STABILIZED CONSTRUCTION ENTRANCE/EXIT (FIELD LOCATE)	---
CONSTRUCTION EQUIPMENT, VEHICLE & MATERIALS STORAGE AREA (FIELD LOCATE)	---
CONCRETE TRUCK WASH-OUT PIT (FIELD LOCATE)	---

EARTHEN BERM W/ POLYMER AND SPILLWAY FORMS ARE TO SPAN ACROSS PROPOSED STREET SECTION APPROX. 30-FOOT WIDE FROM CURB TO CURB. GRAVEL SAND BERM CAN BE REMOVED ONCE CHANNEL IS STABILIZED OR RIP-RAP IS IN PLACE.

### GENERAL NOTES

- DO NOT DISTURB VEGETATED AREAS (TREES, GRASS, WEEDS, BRUSH, ETC.) ANY MORE NECESSARY FOR CONSTRUCTION.
- CONSTRUCTION ENTRANCE/EXIT LOCATION, CONCRETE WASH-OUT PIT AND CONSTRUCTION EQUIPMENT AND MATERIALS STORAGE YARD TO BE DETERMINED IN THE FIELD.
- STORM WATER POLLUTION PREVENTION CONTROLS MAY NEED TO BE MODIFIED IN THE FIELD TO ACCOMPLISH THE DESIRED EFFECT. ALL MODIFICATIONS ARE TO BE NOTED ON THIS EXHIBIT AND SIGNED AND DATED BY THE RESPONSIBLE PARTY.
- RESTRICT ENTRY/EXIT TO THE PROJECT SITE TO DESIGNATED LOCATIONS BY USE OF ADEQUATE FENCING, IF NECESSARY.
- ALL STORM WATER POLLUTION PREVENTION CONTROLS ARE TO BE MAINTAINED AND IN WORKING CONDITION AT ALL TIMES.
- FOR A COMPLETE LISTING OF TEMPORARY STORM WATER POLLUTION PREVENTION CONTROLS REFER TO THE TPO'S STORM WATER POLLUTION PREVENTION PLAN.
- STORM WATER POLLUTION PREVENTION STRUCTURES SHOULD BE CONSTRUCTED WITHIN THE SITE BOUNDARIES. SOME OF THESE FEATURES MAY BE SHOWN OUTSIDE THE SITE BOUNDARIES ON THIS PLAN FOR VISUAL CLARITY.
- AS SOON AS PRACTICAL, ALL DISTURBED SOIL THAT WILL NOT BE COVERED BY PERMANENT VEGETATION, SUCH AS PARKWAY AREAS, EASEMENT AREAS, EMBANKMENT SLOPES, ETC. WILL BE STABILIZED PER APPLICABLE PRACTICAL PRECAUTIONS.
- BEST MANAGEMENT PRACTICES MAY BE INSTALLED IN STAGES TO THE DISTURBANCE OF UPSTREAM AREAS.
- BEST MANAGEMENT PRACTICES MAY BE REMOVED IN STAGES ONCE THE WATERSHED FOR THAT PORTION CONTROLLED BY THE BEST MANAGEMENT REQUIREMENTS HAS BEEN STABILIZED IN ACCORDANCE WITH TPO'S REQUIREMENTS.
- UPON COMPLETION OF THE PROJECT, INCLUDING SITE STABILIZATION, AND BEFORE FINAL PAYMENT IS ISSUED, CONTRACTOR SHALL REMOVE ALL SEDIMENT AND EROSION CONTROL MEASURES, PAYING SPECIAL ATTENTION TO ROCK BERMS IN DRAINAGE FEATURES.
- WHERE VEGETATED FILTER STRIPS ARE INDICATED, CONTRACTOR SHALL VERIFY THAT SUFFICIENT VEGETATION EXISTS, OTHERWISE, CONTRACTOR SHALL PLANT SOIL PLANTING IN LEU OF VEGETATED FILTER STRIP.
- SHADED AREA DENOTES LIMITS OF DISTURBED AREAS. OTHER AREAS WITHIN THE PROJECT LIMITS, WITH THE EXCEPTION OF A CONSTRUCTION EQUIPMENT AND MATERIALS STORAGE YARD, ARE NOT PART OF THIS TPO'S STORM WATER POLLUTION PREVENTION PLAN (SWP3) AND WILL NOT BE DISTURBED BY ANY CONSTRUCTION ACTIVITIES. YOUR CONSTRUCTION ACTIVITIES WILL REQUIRE A SEPARATE STORM WATER POLLUTION PREVENTION PLAN.
- PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL COORDINATE PLACEMENT OF TEMPORARY BEST MANAGEMENT PRACTICES WITHIN 1001 RIGHT-OF-WAY WITH TPO'S.

- NEW MULCH FUNCTION AS A SECONDARY OPERATOR ON THIS PROJECT AND WILL BE INSTALLING ELECTRIC UTILITIES FOR ON-SITE CONSTRUCTION AND OFF-SITE PLANT PAYMENT IS ISSUED, CONTRACTOR SHALL REMOVE ALL SEDIMENT AND EROSION CONTROL MEASURES, PAYING SPECIAL ATTENTION TO ROCK BERMS IN DRAINAGE FEATURES.
- FOR TPO'S REQUIREMENTS, DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITIES HAVE CEASED (TEMPORARILY OR PERMANENTLY) SHALL BE STABILIZED WITHIN 14 DAYS OF CEASING ACTIVITY WITHIN 21 DAYS. SEEDING DOES NOT CONSTITUTE AS STABILIZATION.

### SWP3 MODIFICATIONS

DATE	SIGNATURE	DESCRIPTION

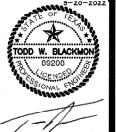
THE ENGINEERING SEAL HAS BEEN AFFIXED TO THIS SHEET ONLY FOR THE PURPOSE OF DEMONSTRATING COMPLIANCE WITH THE TPO'S STORM WATER POLLUTION PREVENTION PLAN (SWP3) REGULATIONS.

THIS SHEET HAS BEEN PREPARED FOR PURPOSES OF THE SWP3 ONLY. ALL OTHER CIVIL ENGINEERING RELATED INFORMATION SHOULD BE ACQUIRED FROM THE APPROPRIATE SHEET IN THE CIVIL IMPROVEMENT PLANS.

EXHIBIT 1

FOR PERMIT

DATE	NO.	REVISION



**PAPE-DAWSON ENGINEERS**

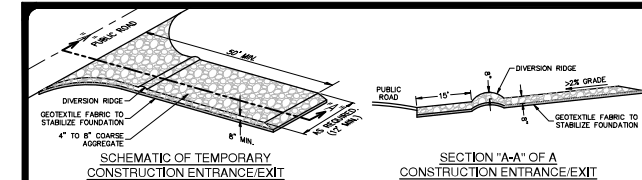
1000 W. SLOAN  
NEW BRAUNFELS, TEXAS 78130

PAPE-DAWSON ENGINEERS, INC.  
1000 W. SLOAN, SUITE 100  
NEW BRAUNFELS, TEXAS 78130  
TEL: 361-1111 FAX: 361-1112

**STEELWOOD TRAIL UNIT 4**  
NEW BRAUNFELS, TEXAS

**STORMWATER POLLUTION PREVENTION PLAN**

PLAT NO.	
JOB NO.	30034-07
DATE	MAY 2022
DESIGNER	HF
CHECKED	HF
DRAWN	SH
SHEET	C8.00

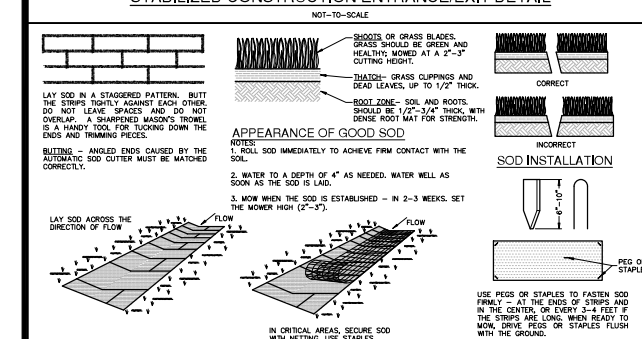


- MATERIALS**
1. THE AGGREGATE SHOULD CONSIST OF 4-INCH TO 8-INCH WASHED STONE OVER A STABLE FOUNDATION AS SPECIFIED IN THE PLAN.
  2. THE AGGREGATE SHOULD BE PLACED WITH A MINIMUM THICKNESS OF 8-INCHES.
  3. THE GEOTEXTILE FABRIC SHOULD BE DESIGNED SPECIFICALLY FOR USE AS A SOIL FILTRATION MESH WITH AN APPROXIMATE HEIGHT OF 4.0 QZ/70% A MULLEN BURST RATING OF 140 LB/IN<sup>2</sup>, AND AN EQUIVALENT OPENING SIZE GREATER THAN A NUMBER 50 SIEVE.
  4. IF A WASHING FACILITY IS REQUIRED, A LEVEL AREA WITH A MINIMUM OF 4-INCH DIAMETER WASHED STONE OR COMMERCIAL ROCK SHOULD BE INCLUDED IN THE PLANS. DIVERT WASTEWATER TO A SEDIMENT TRAP OR BASIN.
- INSTALLATION**
1. AVOID CURBS OR PUBLIC ROADS AND STEEP SLOPES. REMOVE VEGETATION AND OTHER OBSTRUCTABLE MATERIAL FROM THE FOUNDATION AREA. GRADE DOWN FOUNDATION FOR POSITIVE DRAINAGE.
  2. THE MINIMUM WIDTH OF THE ENTRANCE/EXIT SHOULD BE 12 FEET OR THE FULL WIDTH OF EXIT ROADWAY, WHICHEVER IS GREATER.
  3. THE CONSTRUCTION ENTRANCE SHOULD BE AT LEAST 50 FEET LONG.
  4. IF THE SLOPE TOWARD THE ROAD EXCEEDS 2% CONSTRUCT A RIDGE. 8-INCHES TO 8-INCHES HIGH WITH 3:1 (H:V) SIDE SLOPES. MONITOR THE FOUNDATION, APPROXIMATELY 15 FEET FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM THE PUBLIC ROAD.
  5. PLACE GEOTEXTILE FABRIC AND GRADE FOUNDATION TO IMPROVE STABILITY, ESPECIALLY WHERE WET CONDITIONS ARE ANTICIPATED.
  6. PLACE STONE TO DIMENSIONS AND GRADE SHOWN ON PLANS. LEAVE SURFACE SMOOTH AND SLOPE POSITIVE DRAINAGE.
  7. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN.
  8. INSTALL PIPE UNDER PAD AS NEEDED TO MAINTAIN PROPER ROAD DRAINAGE.

- COMMON TROUBLE POINTS**
1. INADEQUATE RUNOFF CONTROL-SEDIMENT WASHES ON PUBLIC ROAD.
  2. STONE TOO SMALL OR GEOTEXTILE FABRIC ABSENT, RESULTS IN MUDDY CONDITION AS STONE IS PRESSED INTO SOIL.
  3. PAD TOO SHORT FOR HEAVY CONSTRUCTION TRAFFIC-EXTEND PAD BEYOND THE MINIMUM 50-FOOT LENGTH AS NECESSARY.
  4. PAD NOT FLARED SUFFICIENTLY AT ROAD SURFACE. RESULTS IN MUD BEING TRACKED ON TO ROAD AND POSSIBLE DAMAGE TO ROAD.
  5. UNSTABLE FOUNDATION - USE GEOTEXTILE FABRIC UNDER AND/OR IMPROVE FOUNDATION DRAINAGE.
- INSPECTION AND MAINTENANCE GUIDELINES**
1. THE ENTRANCE SHOULD BE MAINTAINED IN A CONDITION WHICH WILL 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 CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
  2. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY SHOULD BE REMOVED IMMEDIATELY BY CONTRACTOR.
  3. WHEN NECESSARY, MATERIALS SHOULD BE CLEANED TO REMOVE SEDIMENT FROM TO ENTRANCE AND PUBLIC RIGHTS-OF-WAY.
  4. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINAGE INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
  5. ALL SEDIMENT SHOULD BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATER COURSE BY USING APPROVED METHODS.

**STABILIZED CONSTRUCTION ENTRANCE/EXIT DETAIL**

NOT-TO-SCALE



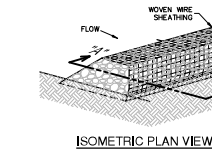
- MATERIALS**
1. SOD SHOULD BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4\"/>
  - 2. PIECES OF SOD SHOULD BE CUT TO THE SUPPLIER'S STANDARD WIDTH AND LENGTH WITH A MAXIMUM ALLOWABLE VARIATION IN ANY DIMENSION OF 3% TORN OR UNEVEN PADS SHOULD NOT BE ACCEPTABLE.
  - 3. STANDARD SIZE SECTIONS OF SOD SHOULD BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND THEIR SIZE AND SHAPE WHEN SUSPENDED FROM A FIRM GRASP ON ONE END OF THE SECTION.
  - 4. SOD SHOULD BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS.
- SITE PREPARATION**
1. PRIOR TO SOD PREPARATION, AREAS TO BE SODDED SHOULD BE BROUGHT TO FINAL GRADE IN ACCORDANCE WITH THE APPROVED PLAN.
  2. THE SURFACE SHOULD BE CLEARED OF ALL TRASH, DEBRIS AND OF ALL ROCKS, BRUSH, WIRE, GRAVE STAKES AND OTHER OBJECTS THAT MAY INTERFERE WITH PLANTING, FERTILIZING OR MAINTENANCE OPERATIONS.
  3. FERTILIZE - ACCORDING TO SOD TESTS. FERTILIZER NEEDS CAN BE DETERMINED BY A SOIL TESTING LABORATORY OR REGIONAL RECOMMENDATIONS SHOULD BE WORKED INTO THE SOIL TO A DEPTH OF 3 INCHES WITH A RIG. FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE CONTOUR.
- INSTALLATION IN CHANNELS**
1. SOD STRIPS IN WATERWAYS SHOULD BE LAID PERPENDICULAR TO THE DIRECTION OF FLOW. CARE SHOULD BE TAKEN TO BUTT ENDS OF STRIPS TIGHTLY (SEE FIGURE ABOVE).
  2. AFTER ROLLING OR TAMPING, SOD SHOULD BE PEGGED OR STAPLED TO HOLD IN PLACE UNTIL ROOTS HAVE FORMED. SOD SHOULD BE PEGGED OVER THE SOD FOR EXTRA PROTECTION IN CRITICAL AREAS.

- GENERAL INSTALLATION (VA. DEPT. OF CONSERVATION, 1992)**
1. SOD SHOULD NOT BE CUT OR LAD IN EXCESSIVELY WET OR DRY WEATHER. SOD ALSO SHOULD NOT BE LAD ON SOIL SURFACES THAT ARE FROZEN.
  2. DURING PERIODS OF HIGH TEMPERATURE, THE SOIL SHOULD BE LIGHTLY REDUCED IMMEDIATELY PRIOR TO LAYING THE SOD, TO COOL THE SOIL AND REDUCE ROOT BURNING AND DISEASE.
  3. THE FIRST ROW OF SOD SHOULD BE LAD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO IT AND BUTTING TIGHTLY AGAINST EACH OTHER. LATERAL JOINTS SHOULD BE STAGGERED TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. CARE SHOULD BE EXERCISED TO INSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT JOINTS WHICH WOULD CAUSE DRYING OF THE ROOTS (SEE FIGURE ABOVE).
  4. ON SLOPES 3:1 OR GREATER, OR WHEREVER EROSION MAY BE A PROBLEM, SOD SHOULD BE LAD WITH STAPLES OR SECURED BY STAPLING OR OTHER APPROVED METHODS. SOD SHOULD BE INSTALLED WITH THE LENGTH PERPENDICULAR TO THE SLOPE (ON CONTOUR).
  5. AS GOING ON CLEARLY DEFINED AREAS IS COMPLETED, SOD SHOULD BE ROLLED OR TAMPED TO PROVIDE FIRM CONTACT BETWEEN ROOTS AND SOIL.
  6. AFTER ROLLING, SOD SHOULD BE IRRIGATED TO A DEPTH SUFFICIENT THAT THE PURPOSE OF THE SOD PAD AND THE SOD 4 INCHES BELOW THE SOD IS THOROUGHLY WET.
  7. UNTIL SUCH TIME A GOOD ROOT SYSTEM BECOMES DEVELOPED, IN THE EVENT OF DROUGHT OR NORMAL CONSTRUCTION ACTIVITIES SUCH AS THE RITE OF OR DISTURBANCE OF SMALL STABILIZATION SHOULD BE REPAIRED AS RITE AS PRACTICAL.

- INSPECTION AND MAINTENANCE GUIDELINES**
1. SOD SHOULD BE INSPECTED WEEKLY AND AFTER EACH RAIN EVENT TO LOCATE AND REPAIR ANY DAMAGE.
  2. DURING PERIODS OF NORMAL CONSTRUCTION ACTIVITIES SUCH AS THE RITE OF OR DISTURBANCE OF SMALL STABILIZATION SHOULD BE REPAIRED AS RITE AS PRACTICAL.

**SOD INSTALLATION DETAIL**

NOT-TO-SCALE

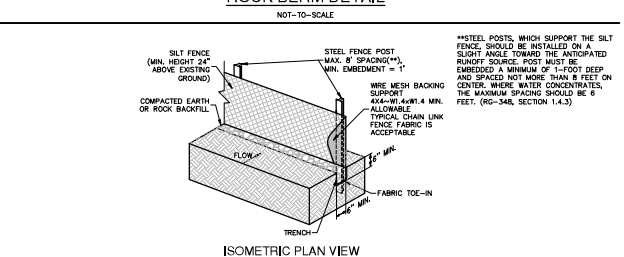


- ROCK BERMS**
- THE PURPOSE OF A ROCK BERM IS TO SERVE AS A CHECK DAM IN AREAS OF CONCENTRATED FLOW, TO INTERCEPT SEDIMENT-LADEN RUNOFF, DETAIN THE SEDIMENT AND RELEASE THE WATER IN SHEET FLOW. THE ROCK BERM SHOULD BE USED WHEN THE CONTRIBUTING DRAINAGE AREA IS LESS THAN 5 ACRES. ROCK BERMS ARE USED IN AREAS WHERE THE VOLUME OF RUNOFF IS TOO GREAT FOR A SILT FENCE TO CONTAIN. THEY ARE LESS EFFECTIVE FOR SEDIMENT REMOVAL THAN SILT FENCES, PARTICULARLY FOR FINE PARTICLES, BUT ARE ABLE TO WITHSTAND HIGHER FLOWS THAN A SILT FENCE. AS SUCH, ROCK BERMS ARE OFTEN USED IN AREAS OF CHANNEL FLOWS (DITCHES, GULLIES, ETC.). ROCK BERMS ARE MOST EFFECTIVE AT REDUCING RED LOAM IN CHANNELS AND SHOULD NOT BE SUBSTITUTED FOR OTHER EROSION AND SEDIMENT CONTROL MEASURES FARTHER UP THE WATERSHED.

- INSPECTION AND MAINTENANCE GUIDELINES**
1. INSPECTION SHOULD BE MADE WEEKLY BY THE RESPONSIBLE PARTY. FOR INSTALLATIONS IN STREAMBEDS, ADDITIONAL DAILY INSPECTIONS SHOULD BE MADE.
  2. REMOVE SEDIMENT AND OTHER DEBRIS WHEN BUILDUP REACHES 8 INCHES AND DISPOSE OF THE ACCUMULATED SILT IN AN APPROVED MANNER THAT WILL NOT CAUSE ANY ADDITIONAL SITUATION.
  3. REPAIR ANY LOOSE WIRE SHEATHING.
  4. THE BERM SHOULD BE RESHAPED AS NEEDED DURING INSPECTION.
  5. THE BERM SHOULD BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
  6. THE ROCK BERM SHOULD BE LEFT IN PLACE UNTIL ALL UPSTREAM AREAS ARE STABILIZED AND ACCUMULATED SILT REMOVED.

**ROCK BERM DETAIL**

NOT-TO-SCALE



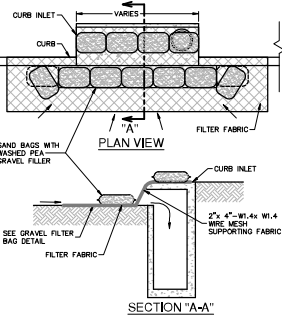
- SILT FENCE**
- A SILT FENCE IS A BARRIER CONSISTING OF GEOTEXTILE FABRIC SUPPORTED BY METAL POSTS TO PREVENT SOIL AND SEDIMENT LOSS FROM A SITE WHEN PROPERLY USED. SILT FENCES CAN BE HIGHLY EFFECTIVE AT CONTROLLING SEDIMENT FROM DISTURBED AREAS. THEY CAUSE RUNOFF TO POND, ALLOWING HEAVIER SOLIDS TO SETTLE OUT. IF NOT PROPERLY INSTALLED, SILT FENCES ARE NOT LIKELY TO BE EFFECTIVE.
- THE PURPOSE OF A SILT FENCE IS TO INTERCEPT AND DETAIN WATER-BORN SEDIMENT FROM UNPROTECTED AREAS OF A LIMITED EXTENT. SILT FENCE IS USED DURING THE PERIOD OF CONSTRUCTION NEAR THE PERIMETER OF A DISTURBED AREA TO INTERCEPT SEDIMENT WHILE ALLOWING WATER TO PERCOLATE THROUGH. THIS FENCE SHOULD REMAIN IN PLACE UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED. SILT FENCE SHOULD NOT BE USED WHERE THERE IS A CONCENTRATION OF WATER IN A CHANNEL OR DRAINAGE WAY. IF CONCENTRATED FLOW OCCURS AFTER INSTALLATION, CORRECTIVE ACTION MUST BE TAKEN SUCH AS PLACING A ROCK BERM IN THE AREAS OF CONCENTRATED FLOW.
- SILT FENCING WITHIN THE SITE MAY BE TEMPORARILY MOVED DURING THE DAY TO ALLOW CONSTRUCTION ACTIVITY PROVIDED IT IS REPLACED AND PROPERLY ANCHORED TO THE GROUND AT THE END OF THE DAY. SILT FENCES ON THE PERIMETER OF THE SITE OR AROUND DRAINAGEWAYS SHOULD NOT BE MOVED AT ANY TIME.

- MATERIALS**
1. SILT FENCE MATERIAL SHOULD BE POLYPROPYLENE, POLYETHYLENE, OR POLYESTER. THE FABRIC SHOULD BE 36 INCHES, WITH A MINIMUM UNIT WEIGHT OF 4.5 QZ/70% MULLEN BURST STRENGTH EXCEEDING 190 LB/IN<sup>2</sup> ULTRAVIOLET STABILITY EXCEEDING 70% AND MINIMUM APPARENT OPENING SIZE OF U.S. SIEVE NUMBER 30.
  2. FENCE POSTS SHOULD BE MADE OF HOT ROLLED STEEL, AT LEAST 4 FEET LONG WITH TOP OR 1/2-INCH CROSS SECTION. SURFACE PAINTED OR GALVANIZED, MINIMUM WEIGHT 1.25 LB/FT<sup>2</sup> AND BRINELL HARDNESS EXCEEDING 140.
  3. WOVEN WIRE BACKING TO SUPPORT THE FABRIC SHOULD BE GALVANIZED 2\"/>
  - 4. FENCE POSTS SHOULD BE MADE OF HOT ROLLED STEEL, AT LEAST 4 FEET LONG WITH TOP OR 1/2-INCH CROSS SECTION. SURFACE PAINTED OR GALVANIZED, MINIMUM WEIGHT 1.25 LB/FT<sup>2</sup> AND BRINELL HARDNESS EXCEEDING 140.
  - 5. WOVEN WIRE BACKING TO SUPPORT THE FABRIC SHOULD BE GALVANIZED 2\"/>

- INSTALLATION**
1. THREE FEET BELOW THE ANTICIPATED RUNOFF SOURCE, POSTS MUST BE EMBEDDED AT AN ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POSTS MUST BE EMBEDDED A MINIMUM OF 1-FOOT DEEP AND SPACED NOT MORE THAN 8 FEET ON. THE MAXIMUM SPACING SHOULD BE 6 FEET (SEE-348, SECTION 1.4.3).
  2. LAY OUT FENCING DOWN-SLOPE OF DISTURBED AREA, FOLLOWING THE CONTOUR AS CLOSELY AS POSSIBLE. THE FENCE SHOULD BE SET TO THE MAXIMUM DRAINAGE AREA IS 1/2 ACRE/100 FEET OF FENCE.
  3. LAY OUT FENCING DOWN-SLOPE OF DISTURBED AREA, FOLLOWING THE CONTOUR AS CLOSELY AS POSSIBLE. THE FENCE SHOULD BE SET TO THE MAXIMUM DRAINAGE AREA IS 1/2 ACRE/100 FEET OF FENCE.

**SILT FENCE DETAIL**

NOT-TO-SCALE

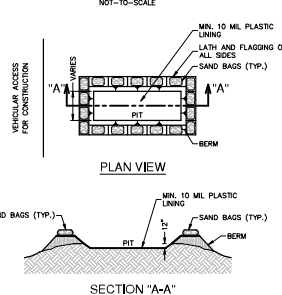


- GENERAL NOTES**
1. CONTRACTOR TO INSTALL 2\"/>
  - 2. THE BAGS SHOULD BE TIGHTLY BUTTED AGAINST EACH OTHER TO PREVENT RUNOFF FROM FLOWING BETWEEN THE BAGS.
  - 3. PLACE THE ROCK ALONG THE SHEATHING AS SHOWN IN THE DIAGRAM TO A HEIGHT NOT LESS THAN 1 FT.
  - 4. WRAP THE WIRE SHEATHING AROUND THE ROCK AND SECURE WITH THE WIRE SO THAT THE ENDS OF THE SHEATHING OVERLAP AT LEAST 2 INCHES. AND THE BERM RETAINS ITS SHAPE WHEN WALKED UPON.
  - 5. BERM SHOULD BE BUILT ALONG THE CONTOUR AT ZERO PERCENT GRADE OR AS NEAR AS POSSIBLE.
  - 6. THE ENDS OF THE BERM SHOULD BE TIED INTO EXISTING UPSLOPES GRADE AND THE BERM SHOULD BE BURIED IN A TRENCH APPROXIMATELY 3 TO 4 INCHES DEEP TO PREVENT FLOW OF THE CONTOUR.

- COMMON TROUBLE POINTS**
1. INSUFFICIENT BERM HEIGHT OR LENGTH RUNOFF QUICKLY ESCAPES OVER THE TOP OR AROUND THE SIDES OF BERM.
  2. BERM NOT INSTALLED PERPENDICULAR TO FLOW LINE (RUNOFF ESCAPING AROUND ONE SIDE).

**BAGGED GRAVEL CURB INLET PROTECTION DETAIL**

NOT-TO-SCALE

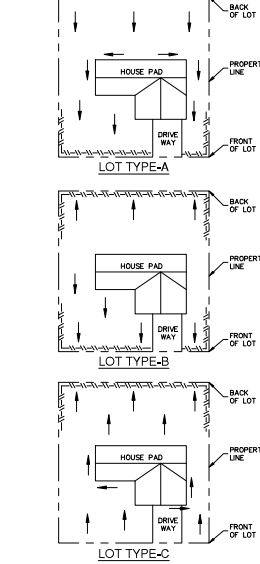


- GENERAL NOTES**
1. DETAIL ABOVE ILLUSTRATES MINIMUM DIMENSIONS. PIT CAN BE INCREASED IN SIZE DEPENDING ON EXPECTED FLOODING OF USE.
  2. WASHOUT PIT SHALL BE LOCATED IN AN AREA EASILY ACCESSIBLE TO CONSTRUCTION TRAFFIC.
  3. WASHOUT PIT SHALL NOT BE LOCATED IN AREAS SUBJECT TO INUNDATION FROM STORM WATER RUNOFF.
  4. LOCATE WASHOUT AREA AT LEAST 50 FEET FROM SENSITIVE FEATURES, STORM DRAINS, OPEN DITCHES OR WATER BODIES.
  5. TEMPORARY CONCRETE WASHOUT FACILITY SHOULD BE CONSTRUCTED WITH SUFFICIENT QUANTITY AND VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.

- MATERIALS**
- PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 ML IN POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
- MAINTENANCE**
1. WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE PROJECT, THE HARDENED CONCRETE SHOULD BE REMOVED AND DISPOSED OF.
  2. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF.
  3. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCES CAUSED BY THE PURPOSES OF THE CONSTRUCTION OF THE WASHOUT FACILITIES SHOULD BE REPAIRED AND REPAIRED.

**CONCRETE TRUCK WASHOUT PIT DETAIL**

NOT-TO-SCALE



**LEGEND**

SILT FENCE  
DRAINAGE FLOW

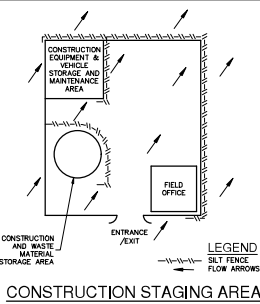
**PLAN VIEW**

**SECTION 'A-A'**

- NOTES**
1. THE FILTER BAG MATERIAL SHALL BE MADE OF POLYPROPYLENE, POLYETHYLENE OR POLYESTER WOVEN FABRIC, MIN. UNIT WEIGHT OF 4 QZ/70% MULLEN BURST STRENGTH EXCEEDING 300 PPS AND ULTRAVIOLET STABILITY EXCEEDING 70%.
  2. THE FILTER BAG SHALL BE FILLED WITH CLEAN, MEDIAN WASHED PEA GRAVEL TO COARSE GRAVEL (0.31 TO 0.75 INCH DIAMETER).
  3. SAND SHALL NOT BE USED TO FILL THE FILTER BAGS.

**GRAVEL FILTER BAG DETAIL**

NOT-TO-SCALE



**CONSTRUCTION STAGING AREA**

NOT-TO-SCALE

DATE	
NO. REVISION	



PAPE-DAWSON  
ENGINEERS

NEW BRUNSWICK, TEXAS

STEELWOOD TRAIL UNIT 4  
NEW BRUNSWICK, TEXAS

STORMWATER POLLUTION PREVENTION DETAILS

PLAT NO. 30034-02  
DATE 03-04-22  
JOB NAME 007  
DESIGNER HF  
CHECKED HF  
DRAWN BH  
SHEET C8.10

FOR PERMIT