

FILTER FABRIC DESIGN CRITERIA:

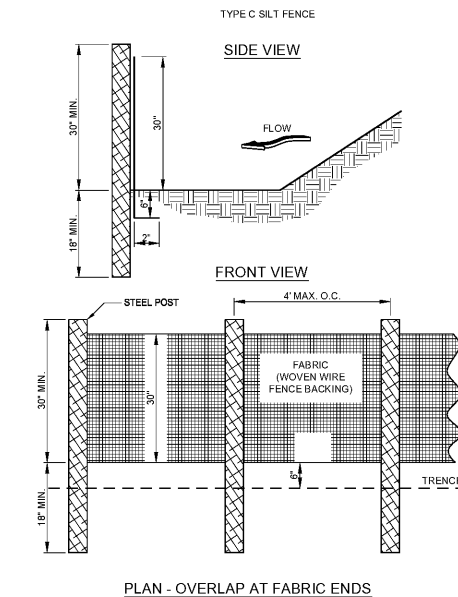
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) AND SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS, AS SHOWN IN FIGURE 6-28.1. TYPE S SILT FENCE SUPPORTED BY STEEL POSTS SHOULD BE USED. THE STAKES SHALL BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3 FEET APART, AND SECURELY DRIVEN INTO THE GROUND, APPROXIMATELY 18 INCHES DEEP. THE FABRIC SHALL BE 3/8 INCHES TALL AND ENTRENCHED 12 INCHES AND BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL. FABRIC AND WIRE SHALL BE SECURELY FASTENED TO THE POSTS, AND FABRIC ENDS MUST BE OVERLAPPED A MINIMUM OF 18 INCHES OR WRAPPED TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS FABRIC BARRIER AROUND THE INLET.

MAINTENANCE REQUIREMENTS:

THE TRAP SHALL BE INSPECTED DAILY AND AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP. SEDIMENT SHALL NOT BE WASHED INTO THE INLET. IT SHALL BE REMOVED FROM THE SEDIMENT TRAP AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLET, AGAIN. WHEN CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, ALL MATERIALS AND ANY SEDIMENT SHALL BE REMOVED, AND EITHER SALVAGED OR DISPOSED OF PROPERLY. THE DISTURBED AREA SHALL BE BROUGHT TO PROPER GRADE, THEN SMOOTHED AND COMPACTED. APPROPRIATELY STABILIZE ALL DISTURBED AREAS AROUND THE INLET.

NOTE:

1. THE MAXIMUM DRAINAGE AREA ALLOWED TO FLOW TO ANY ONE INLET SEDIMENT TRAP IS 1.0 ACRE.
2. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
3. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART).
4. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
5. THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.



SPECIFICATIONS:

1. USE STEEL POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. THE SILT FENCE SHALL BE 36 INCHES WIDE WITH WIRE REINFORCEMENT.
3. TYPE C SILT FENCE SHALL BE USED WHERE RUNOFF FLOWS OR VELOCITIES ARE PARTICULARLY HIGH OR WHERE SLOPES EXCEED A VERTICAL HEIGHT OF 10 FEET.

NOTES:

1. SEDIMENT BARRIERS SHALL BE INSTALLED WHERE RUNOFF CAN BE STORED BEHIND THE BARRIER WITHOUT DAMAGING THE SUBMERGED AREA BEHIND THE BARRIER OF THE STRUCTURE ITSELF.
2. SEDIMENT BARRIERS SHALL NOT BE INSTALLED ACROSS STREAMS, DITCHES, WATERWAYS, OR OTHER CONCENTRATED FLOW AREAS.
3. WHERE ALL RUNOFF IS TO BE STORED BEHIND THE SEDIMENT BARRIER (WHERE NO STORM WATER DISPOSAL SYSTEM IS PRESENT), MAXIMUM CONTINUOUS SLOPE LENGTH BEHIND A SEDIMENT BARRIER SHALL NOT EXCEED THOSE SHOWN IN TABLE 6-27.1. CRITERIA FOR SEDIMENT BARRIER FOR LONGER SLOPE LENGTHS, SLOPE INTERRUPTERS MUST BE USED.
4. FOR EVERY 100 FEET OF SEDIMENT BARRIER, THE DRAINAGE AREA SHALL NOT EXCEED 1/4 ACRE.
5. WHEN USING MULTIPLE TYPES OF SEDIMENT BARRIERS ON A SITE IN A SINGLE RUN, THE BARRIERS MUST BE OVERLAPPED A MINIMUM OF 18 INCHES.
6. SILT FENCING MATERIAL TO BE USED MUST BE ON THE EXISTING GEORGIA DEPARTMENT OF TRANSPORTATION QUALIFIED PRODUCTS LIST #36 (OPL-36), TYPE C SILT FENCING.
7. SENSITIVE AREAS ARE ANY AREAS THAT NEED ADDITIONAL PROTECTION. THESE AREAS INCLUDE, BUT ARE NOT LIMITED TO, STATE WATERS, WETLANDS, OR ANY AREA THE DESIGN PROFESSIONAL DESIGNATES AS SENSITIVE.
8. ALONG ALL STATE WATERS AND OTHER SENSITIVE AREAS, TWO ROWS OF TYPE S SEDIMENT BARRIERS SHALL BE USED. THE TWO ROWS OF TYPE S SHALL BE PLACED A MINIMUM OF 36 INCHES APART.
9. PLACE WOOD CHIP MULCH BEAMS A MAXIMUM OF 18" HIGH IN FRONT OF ALL SINGLE ROW SILT FENCES.
10. PLACE WOOD CHIP MULCH BERMS, HAYBALES, OR COMPOST FILTER SOCKS IN BETWEEN DOUBLE ROW SILT FENCES.

MAINTENANCE:

SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER.

SEDIMENT BARRIERS SHALL BE REPLACED WHENEVER THEY HAVE DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE PRODUCT IS REDUCED (APPROXIMATELY SIX MONTHS) OR THE HEIGHT OF THE PRODUCT IS NOT MAINTAINING 90% PROPERLY INSTALLED HEIGHT.

TEMPORARY SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ALL SEDIMENT ACCUMULATED AT THE BARRIER SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE BARRIER IS REMOVED.

TABLE 6-27.1 CRITERIA FOR SEDIMENT BARRIER

LAND SLOPE PERCENT	MAXIMUM SLOPE LENGTH ABOVE FENCE FEET	
	100	75
< 2	100	75
2 TO 5	75	50
5 TO 10	50	25
10 TO 20	25	15
> 20	15	15

"IN AREAS WHERE THE SLOPE IS GREATER THAN 20% A FLAT AREA LENGTH OF 10 FEET BETWEEN THE TOE OF SLOPE TO THE BARRIER SHOULD BE PROVIDED."

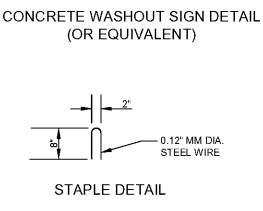
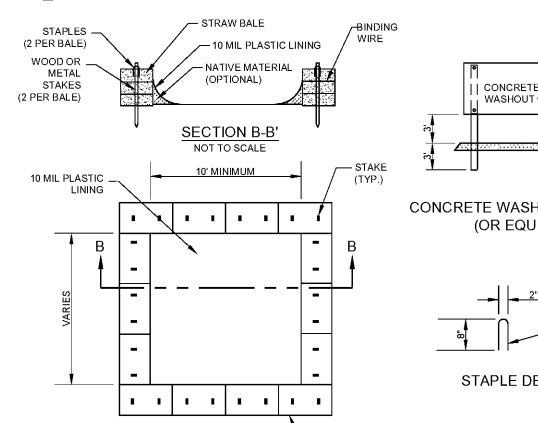
TABLE 6-27.2 POST SIZE

TYPE	MIN. LENGTH	TYPE OF POST	SIZE OF POST
S	4'	STEEL OAK	1 1/2" MIN. "X2"

TABLE 6-27.3 TYPE S SILT FENCE

TYPE S SILT FENCE	MIN. TENSILE STRENGTH (LBS. MIN. (ASTM D 4752))	MIN. ELONGATION (ASTM D 4832)	MIN. AOS (MAX. ALLOWABLE OPENING SIZE) (MAX. ALLOWABLE (ASTM D 4751))	MIN. FLOW RATE (GAL/MIN/SQ.FT.) (GDT-87)	ULTRAVIOLET STABILITY (ASTM D-4632 AFTER 300 HOURS WEATHERING IN ACCORDANCE WITH ASTM D-4398)	BURSTING STRENGTH (PSI MIN.) (ASTM D-3786 DIAPHRAGM BURSTING STRENGTH TESTER)	MINIMUM FABRIC WIDTH (INCHES)
WARF-260	150	40	#30	70	80	175	36
FILL-180	150	40	#30	70	80	175	36

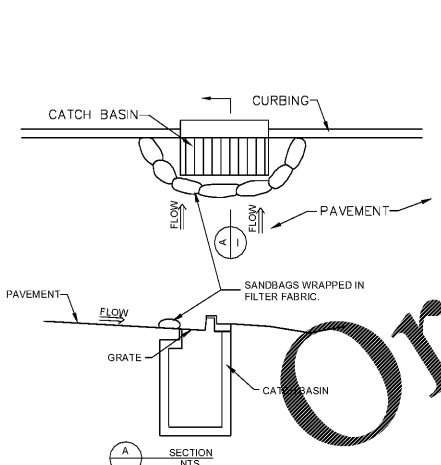
Sd2-F FILTER FABRIC WITH SUPPORT FRAME DETAIL



NOTES:

1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
2. THE CONCRETE WASHOUT SIGN (SEE FIG. 4-15) SHALL BE INSTALLED WITHIN 10' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

CW CONCRETE WASHOUT



CURB INLET PROTECTION:

ONCE PAVEMENT HAS BEEN INSTALLED, A CURB INLET FILTER SHALL BE INSTALLED ON INLETS RECEIVING RUNOFF FROM DISTURBED AREAS. THIS METHOD OF INLET PROTECTION SHALL BE REMOVED IF A SAFETY HAZARD IS CREATED.

ONE METHOD OF CURB INLET PROTECTION USES "PIGS-IN-A-BLANKET" - 8-INCH CONCRETE BLOCKS WRAPPED IN FILTER FABRIC. ANOTHER METHOD USES SANDBAGS OR GRAY BAGS CONSTRUCTED BY WRAPPING DOT (OR ONE-WAY) FILTER FABRIC, WIRE, PLASTIC MESH, OR EQUIVALENT MATERIAL.

A GAP OF APPROXIMATELY 4 INCHES SHALL BE LEFT BETWEEN THE INLET FILTER AND THE INLET TO ALLOW FOR OVERFLOW AND PREVENT HAZARDOUS PONDING IN THE ROADWAY. PROPER INSTALLATION AND MAINTENANCE IS CRUCIAL DUE TO POSSIBLE PONDING IN THE ROADWAY RESULTING IN A HAZARDOUS CONDITION.

MAINTENANCE REQUIREMENTS:

THE TRAP SHALL BE INSPECTED DAILY AND AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP. SEDIMENT SHALL NOT BE WASHED INTO THE INLET. IT SHALL BE REMOVED FROM THE SEDIMENT TRAP AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLET, AGAIN. WHEN CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, ALL MATERIALS AND ANY SEDIMENT SHALL BE REMOVED, AND EITHER SALVAGED OR DISPOSED OF PROPERLY. THE DISTURBED AREA SHALL BE BROUGHT TO PROPER GRADE, THEN SMOOTHED AND COMPACTED. APPROPRIATELY STABILIZE ALL DISTURBED AREAS AROUND THE INLET.

NOTE:

1. INSTALL FILTER AFTER ANY ASPHALT PAVEMENT INSTALLATION.
2. ADJUST THE NUMBER OF SANDBAGS LAID ON THEIR SIDE TO CONTROL FLOW THROUGH RATE.

Sd2-P CURB INLET PROTECTION SAND BAGS DETAIL

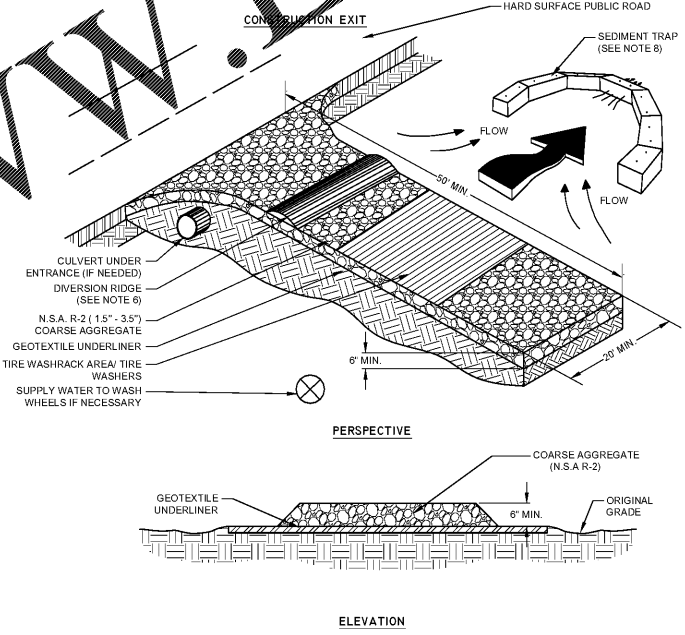
Sd2-P CURB INLET PROTECTION "PIGS-IN-A-BLANKET" DETAIL

Sd1-S SILT FENCE TYPE "C" DETAIL



NOTES:

1. THE FABRIC AND POSTS SHOULD BE SECURELY FASTENED TOGETHER. FABRIC ENDS MUST BE OVERLAPPED A MINIMUM OF 18" TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS FABRIC BARRIER.



SPECIFICATIONS:

1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION # 2 (1.5" - 3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6". PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
5. LOCATION WHERE GRADE TOWARD THE PAVED AREA IS GREATER THAN 2% ON SITES, A DIVERSION RIDGE 6" TO 8" HIGH WITH 3:1 SIDE SLOPES, SHALL BE CONSTRUCTED ACROSS THE FOUNDATION APPROXIMATELY 15 FEET ABOVE THE ROAD.
6. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
7. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
8. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY REQUIRE MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
9. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
10. THE GEOTEXTILE UNDERLINER MUST BE PLACED THE FULL LENGTH AND WIDTH OF THE ENTRANCE. GEOTEXTILE SELECTION SHALL BE BASED ON AASHTO M288-06 SPECIFICATION.
 - A. FOR SUBGRADES WITH CBR GREATER THAN OR EQUAL TO 3 OR SHEAR STRENGTH GREATER THAN 90 kPa, GEOTEXTILE MUST MEET REQUIREMENTS OF SECTION AASHTO M288-06 SECTION 7.3, SEPARATION REQUIREMENTS.
 - B. FOR SUBGRADES WITH CBR BETWEEN 1 AND 3 OR SHEAR STRENGTH BETWEEN 30 AND 90 kPa, GEOTEXTILE MUST MEET REQUIREMENTS OF SECTION AASHTO M288-06 SECTION 6, GEOTEXTILE PROPERTY REQUIREMENTS FOR SUBSURFACE DRAINAGE, SEPARATION, STABILIZATION, AND PERMANENT EROSION CONTROL (GEOTEXTILE PROPERTY REQUIREMENTS).

MAINTENANCE:

THE EXIT SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.5-3.5 INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

Co CONSTRUCTION EXIT DETAIL

NOT TO SCALE

GWINNETT COUNTY STAMP AREA (4" X 4")
PROJECT # CDP2019-00035

ENGINEER

FORESITE group

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Suite 100 f | 770.368.1944
Peachtree Corners, GA 30092

DEVELOPER

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ESTABLISHED 1952

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770-822-8864

CONTACT: MR. REX SCHUDER

ELISHA WINN HOUSE
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DACULA, GA 30019
LL # 1, DISTRICT 2, ZONE R-100
PARCEL #R2001 158

PROJECT:

SEAL

GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. 038646
LUISA C. MAZZOLI
4/08/19

GEORGIA LEVEL II CERTIFIED PROFESSIONAL # 000058923
EXPIRATION DATED: 08/21/2021

REVISIONS

NO.	DESCRIPTION	DATE
1	GWINNETT CO. RESUBMITAL	03/20/2019

PROJECT MANAGER: AWP
DRAWING BY: SSH
JURISDICTION: GWINNETT COUNTY
DATE: 08/10/2018
SCALE: AS SHOWN
TITLE:

ESPC DETAILS

SHEET NUMBER: C-4.6

COMMENTS: RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER: 223.082

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