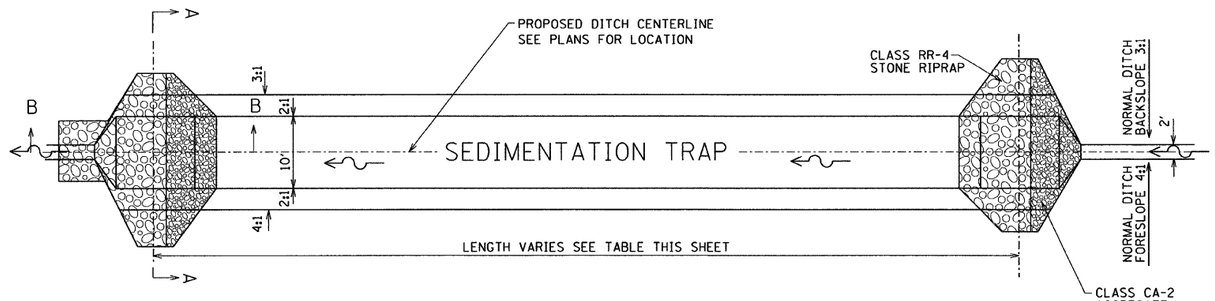
CONTRACT NO. 62700

F.A. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	*	LAKE	554	320
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

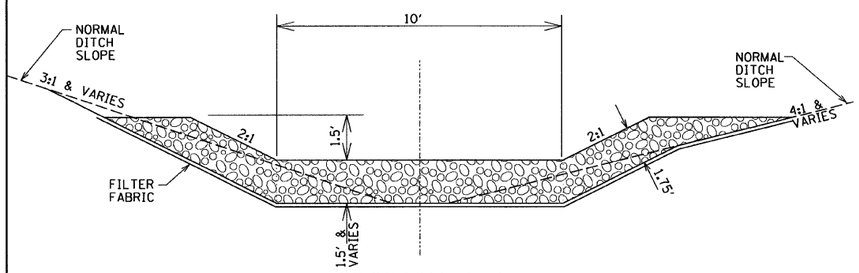
*(L-2(W,R);6,6A & 6 EXT) WRS-1



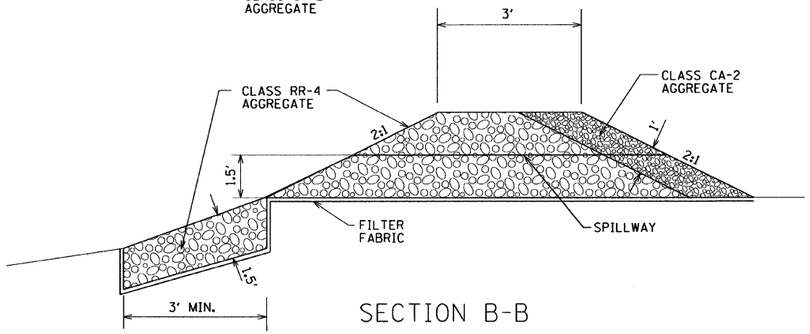
THE UNIT WEIGHT USED TO CALCULATE RR-4 STONE IS 110 PDS/CU FT.

THE UNIT WEIGHT USED TO CALCULATE CA-2 AGGREGATE IS 125 PDS/CU FT..

SEDIMENT TRAP NO.	LOCATION FROM	TO		LENGTH	WIDTH	DEPTH
1	196+68	197+68	LT	100	10	1.5
2A	212+50	213+50	LT	100	10	1.5
2B	213+50	214+50	LT	100	10	1.5
3A	212+50	213+50	RT	100	10	1.5
3B	213+50	214+50	RT	100	10	1.5
4	216+50	217+50	LT	100	10	1.5
5	216+50	217+10	RT	60	10	1.5
6A	223+00	224+00	RT	100	10	1.5
6B	228+50	229+50	RT	100	10	1.5
6C	229+50	230+50	RT	100	10	1.5
7A	224+00	225+00	LT	100	10	1.5
7B	228+00	229+00	LT	100	10	1.5
7C	229+00	230+00	LT	100	10	1.5
8	232+00	233+25	LT	125	10	1.5
9	233+25	234+25	RT	100	10	1.5
10	238+90	239+50	LT	60	10	1.5
11	240+33	240+85	LT	52	10	1.5
12	262+50	263+50	LT	100	10	1.5
13	266+25	267+25	LT	100	10	1.5
14A	274+50	275+50	LT	100	10	1.5
14B	275+50	276+50	LT	100	10	1.5
15A	277+00	278+00	LT	100	10	1.5
15B	278+00	279+00	LT	100	10	1.5
16	287+30	288+10	LT	80	10	1.5
17	306+00	307+00	RT	100	10	1.5
18A	307+50	308+50	RT	100	10	1.5
18B	308+50	309+50	RT	100	10	1.5
19	483+10	483+50	RT	40	10	1.5

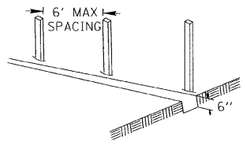


SECTION A-A

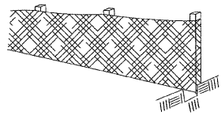


SECTION B-B

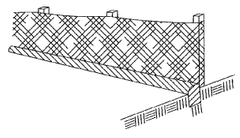
1. SET POSTS AND EXCAVATE OR SLIT-TRENCH A 6-INCH DEEP TRENCH UPSLOPE ALONG THE LINE OF POSTS



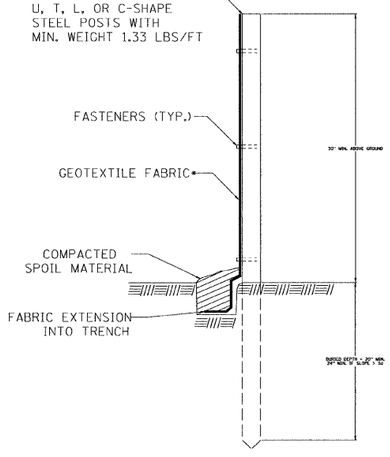
2. ATTACH GEOTEXTILE FILTER FABRIC TO EACH POST WITH A MINIMUM OF 3 (THREE) FASTENERS PER POST AND EXTEND FABRIC TO THE BOTTOM OF THE TRENCH



3. BACKFILL AND COMPACT THE EXCAVATED MATERIALS

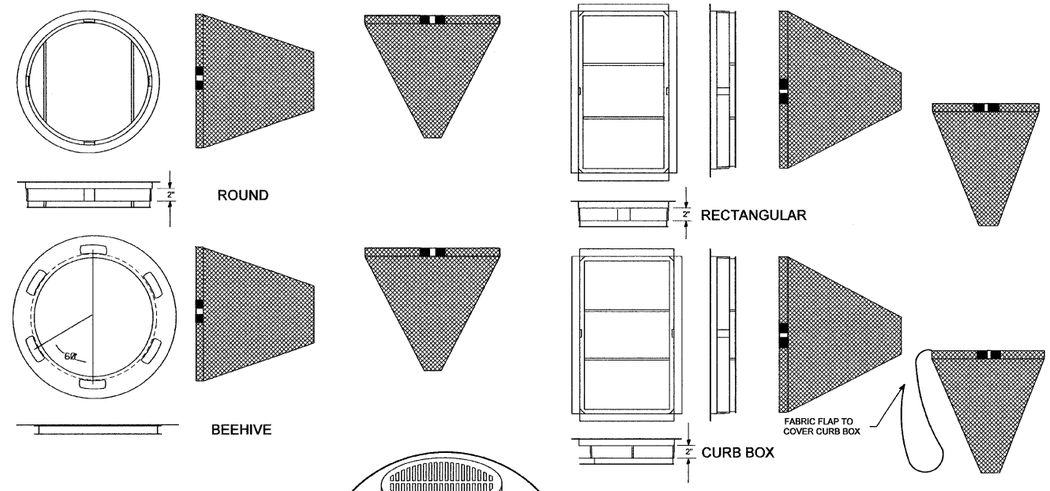


Requirements	Test Methods	Wire Backed Supported Silt Fence [a]	Unsupported Silt Fence	
			Geotextile Elongation >=50% [b]	Geotextile Elongation <50% [b]
Maximum Post Spacing		4 feet	4 feet	6 feet
Grab Strength	ASTM D 4632			
Machine direction		90 lbs	124 lbs	124 lbs
X-Machine direction		90 lbs	100 lbs	100lbs
Permittivity [c]	ASTM D 4491	0.05 sec $^{-1}$	0.05 sec $^{-1}$	0.05 sec $^{-1}$
Apparent Opening Size	ASTM D 4751	0.024in maximum average roll value		
Ultraviolet stability (retained strength)	ASTM D 4355	70% after 500 hours of exposure		



* NOTE: OPTIONAL WIRE SUPPORT
- MIN. 30" HEIGHT
- MIN. 14 GAUGE WIRE
- MIN. 6 HORIZ. WIRES
- MIN. 6" VERTICAL SPACING

SCALE 1" = 1'



INLET AND PIPE PROTECTION

DESCRIPTION: This work shall consist of furnishing, installation, and removal of a drainage structure inlet filter assembly, consisting of a frame and filter bag, to collect sediment in surface storm water runoff at locations shown on the plans or as directed by the Engineer.

The Contractor shall inspect the worksite and review the plans to determine the number and dimensions of the various types of drainage structure frames (circular and rectangular) into which the inlet filters will be installed prior to ordering materials.

The drainage structure inlet filter assembly shall be installed under the grate on the lip of the drainage structure frame with the fabric bag hanging down into the drainage structure.

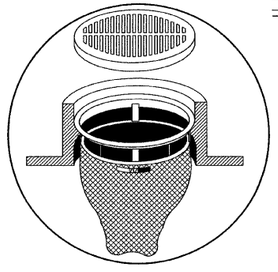
The drainage structure inlet filter assembly shall remain in place until final removal of the assembly is directed by the Engineer. The drainage structure inlet filter assembly shall remain the property of the Contractor.

Final removal of the assembly shall include the disposal of debris or silt that has accumulated in the filter bag at the time of final removal. Periodic cleaning of the filter is paid for separately.

MATERIALS: The drainage structure inlet shall be the (INLET AND PIPE PROTECTION), as furnished by Marathon Materials, Inc. 25523 W. Shultz St., Plainfield, IL 60544, (800) 983-9493, or approved equal. A detailed drawing in the plans depicts the drainage structure inlet filter assembly.

The drainage structure inlet filter assembly shall consist of a steel frame with a replaceable geotextile fabric bag attached with a steel band with locking cap that is suspended from the frame. A clean used bag and used steel frame in good condition, meeting the approval of the Engineer, may be substituted for new materials.

The drainage structure inlet filter assembly frame shall be rigid steel meeting the requirements of ASTM-A36. The frame shall include an overflow feature that is welded to the frame?s ring. The overflow feature shall be designed to allow full flow of water into the structure if the filter bag is filled with sediment. The dimensions of the assembly frame shall allow the drainage structure grate to fit into the inlet filter assembly frame opening. The assembly frame shall rest on the inside lip of the drainage structure frame for the full variety of existing and proposed drainage structure frames that are present on this contract.



DRAINAGE STRUCTURE
INLET FILTER

The drainage structure inlet filter assembly bag shall be constructed of polypropylene geotextile fabric with a minimum weight of 4 ounces per square yard, minimum flow rate of 145 gallons per minute per square foot, and designed for minimum silt and debris capacity of 2 cubic feet. The filter bag shall be reinforced with an outer layer of polyester mesh fabric with a minimum weight of 4 ounces per square yard. The filter bag shall be suspended from the steel frame with a stainless steel band and locking cap. The inlet filter assembly frame shall not cause the drainage structure grate to extend higher than 1/8-inch above the drainage structure frame.

BASIS OF PAYMENT: The work will be paid for at the contract unit price per EACH for INLET FILTER, which price shall include all cost of labor, materials, equipment, and incidental items necessary to perform the work.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
ILLINOIS ROUTE 83
FROM THE WISCONSIN STATE LINE TO
NORTH OF PETITE LAKE ROAD

EROSION CONTROL & SEDIMENTATION TRAP DETAILS

DRAWN BY: TMM
DATE: 1/30/09 CHECKED BY: RJS

GRAEF, ANHALT, SCHLOEMER & ASSOCIATES, INC.
CHICAGO, ILLINOIS

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