SIDE VIEW

SEDIMENT DEWATERING BAG NOTES:

- CONTRACTOR SHALL PROVIDE SEDIMENT DEWATERING BAG(S) FOR ALL DEWATERING DISCHARGES.
- DEWATERING BAGS SHALL BE NON-WOVEN GEOTEXTILE MEETING THE MINIMUM REQUIREMENTS AS SPECIFIED BELOW, WITH HIGH STRENGTH DOUBLE STITCHED "J" TYPE SEAMS MEETING ASTM D-4884, AND SEWN IN SPOUT/NOZZLE TO ACCEPT DEWATERING DISCHARGE PIPE/HOSE, SIZED AS RECOMMENDED BY MANUFACTURER FOR FLOW CONDITIONS ENCOUNTERED. NOZZLE SHALL BE FURNISHED WITH HIGH STRENGTH MECHANICAL STRAPS FOR HOLDING THE PIPE/HOSE IN PLACE.
- MINIMUM GEOTEXTILE PROPERTIES:

	ı		T	_
PROPERTY	ASTM	8 OZ./YD ²	10 OZ./YD ²	12 OZ./YD ²
		WEIGHT	WEIGHT	WEIGHT
TENSILE STRENGTH	D-4632	200 LBS.	250 LBS.	300 LBS.
ELONGATION @ BREAK	D-4632	50%	50%	50%
MULLEN BURST	D-3786	350 PSI	350 PSI	350 PSI
TRAPEZOIDAL TEAR	D-4533	85 LBS.	100 LBS.	115 LBS.
CBR PUNCTURE	D-6241	525 LBS.	700 LBS.	850 LBS.
AOS	D-4751	80 SIEVE	100 SIEVE	100 SIEVE
PERMITTIVITY	D-4491	1.35 SEC ⁻¹	1.2 SEC ⁻¹	1.0 SEC ⁻¹
WATER FLOW RATE	D-4491	90 GPM/FT ²	85 GPM/FT ²	75 GPM/FT ²
UV RESISTANCE	D-4355	70% @ 500	70% @ 500	70% @ 500
		HRS.	HRS.	HRS.

DETAIL - SEDIMENT DEWATERING BAG NOT TO SCALE

TEMPORARY CONSTRUCTION ENTRANCE NOTES:

PURPOSE

- TO PROVIDE STABLE ENTRANCE/EXIT CONDITIONS FROM AN INDIVIDUAL LOT OR BUILDING SITE.
- TO KEEP MUD AND SEDIMENT OFF OF PUBLIC ROADWAYS.

SPECIFICATIONS • LOCATION - AVOID LOCATING ON STEEP SLOPES OR AT CURVES IN

- PUBLIC ROADS.
- DIMENSIONS:
- o WIDTH = 12 FEET MINIMUM OR FULL WIDTH OF ENTRANCE/EXIT DRIVE, WHICHEVER IS GREATER.
- o LENGTH = 50 FEET MINIMUM OR FULL LENGTH OF DRIVE,
- WHICHEVER IS GREATER. o THICKNESS = SIX INCHES MINIMUM.

MATERIALS:

SEDIMENT TRAP OR BASIN.

- o ONE TO TWO AND ONE-HALF INCH DIAMETER WASHED AGGREGATE (INDOT NO. 2).
- o ONE-HALF TO ONE AND ONE-HALF INCH WASHED AGGREGATE (INDOT NO. 53); OPTIONAL, USED PRIMARILY WHERE THE PURPOSE
- OF THE PAD IS TO KEEP SOIL FROM ADHERING TO VEHICLE TIRES. o GEOTEXTILE FABRIC UNDERLAYMENT (USED AS A SEPARATION LAYER TO PREVENT INTERMIXING OF AGGREGATE AND THE UNDERLYING SOIL MATERIAL AND TO PROVIDE GREATER BEARING STRENGTH WHEN ENCOUNTERING WET CONDITIONS OR SOILS

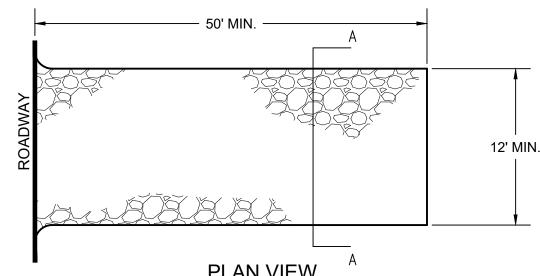
INSTALLATION

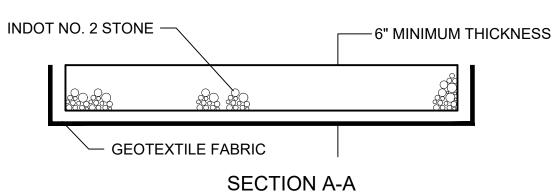
 REMOVE ALL VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA.

WITH A SEASONAL HIGH WATER TABLE LIMITATION).

- GRADE THE FOUNDATION AND CROWN FOR POSITIVE DRAINAGE. • INSTALL A CULVERT PIPE UNDER THE PAD IF NEEDED TO MAINTAIN
- PROPER PUBLIC ROAD DRAINAGE.
- IF WET CONDITIONS ARE ANTICIPATED, PLACE GEOTEXTILE FABRIC ON THE GRADED FOUNDATION TO IMPROVE STABILITY.
- PLACE AGGREGATE (INDOT NO. 2) TO THE DIMENSIONS AND GRADE SHOWN IN THE CONSTRUCTION PLANS, LEAVING THE SURFACE
- SMOOTH AND SLOPED FOR DRAINAGE. • TOP-DRESS THE DRIVE WITH WASHED AGGREGATE (INDOT NO.53). WHERE POSSIBLE, DIVERT ALL STORM WATER RUNOFF AND DRAINAGE FROM THE TEMPORARY CONSTRUCTION INGRESS/EGRESS PAD TO A

- TOP-DRESS WITH CLEAN AGGREGATE AS NEEDED.
- IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED
- ONTO PUBLIC ROADS.
- FLUSHING SHOULD ONLY BE USED IF THE WATER FROM THE



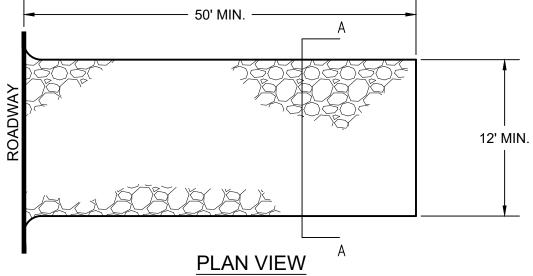


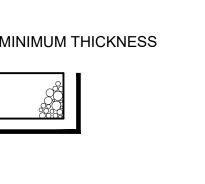
DETAIL - TEMPORARY CONSTRUCTION ENTRANCE NOT TO SCALE

MAINTENANCE INSPECT DAILY.

- RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.

CONSTRUCTION DRIVE CAN BE CONVEYED INTO A SEDIMENT TRAP OR



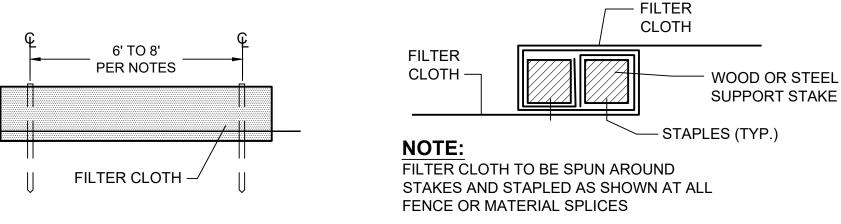


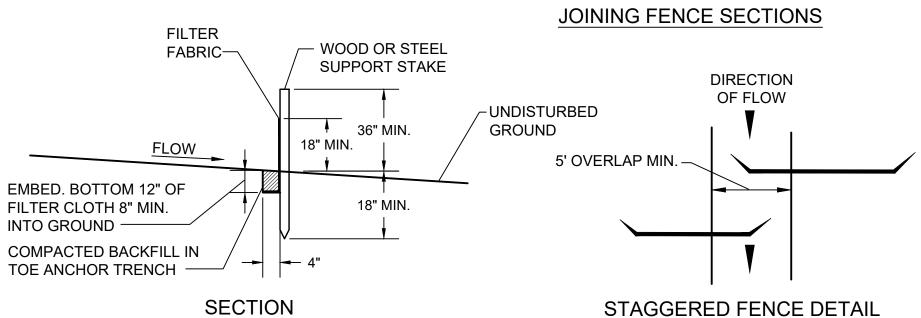
EXISTING SITE MATERIAL TO BE REUSED AND/OR NEW MATERIAL TO BE INSTALLED IN THE WORK.

SOIL/AGGREGATE STOCKPILE OF MATERIALS STOCKPILE NOTES

- ALL EXISTING EXCAVATED MATERIAL THAT IS NOT TO BE REUSED IN THE WORK SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED.
- 2. RESTORE STOCKPILE SITES TO PRE-EXISTING PROJECT CONDITION AND RESEED AS REQUIRED.
- STOCKPILE HEIGHTS MUST NOT EXCEED 10 FT. UNLESS OTHERWISE DIRECTED BY OWNER. STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.

DETAIL - MATERIALS STOCKPILE





SILT FENCE NOTES

SILT FENCE

SEE DETAIL

PURPOSE

- TO TRAP SEDIMENT FROM SMALL, DISTURBED AREAS BY REDUCING THE VELOCITY OF SHEET FLOW. SILT FENCES CAPTURE SEDIMENT BY PONDING WATER TO ALLOW DEPOSITION, NOT BY FILTRATION.
- NOTE: SILT FENCE IS NOT RECOMMENDED FOR USE AS A DIVERSION AND SHOULD NOT BE USED ACROSS A STREAM, CHANNEL, DITCH, SWALE. OR ANYWHERE THAT CONCENTRATED FLOW IS ANTICIPATED

SPECIFICATIONS

- DRAINAGE AREA = LIMITED TO ONE-QUARTER ACRE PER 100 LINEAR FEET OF FENCE. FURTHER RESTRICTED BY SLOPE STEEPNESS (SEE
- EFFECTIVE LIFE = SIX MONTHS (MAXIMUM).
- LOCATION
- o INSTALLED PARALLEL TO THE SLOPE CONTOUR. o MINIMUM OF 10 FEET BEYOND THE TOE OF THE SLOPE TO PROVIDE
- A BROAD, SHALLOW SEDIMENT POOL. o ACCESSIBLE FOR MAINTENANCE (REMOVAL OF SEDIMENT AND SILT FENCE REPAIR).
- SPACING

Table 1. Slope Steepness Restrictions

Percent Slope		Maximum Distance	
< 2%	< 50:1	100 feet	
2% - 5%	50:1 to 20:1	75 feet	
5% – 10%¹	20:1 to 10:1	50 feet	
0% - 20%1	10:1 to 5:1	25 feet	
> 20%1	> 5:1	15 feet	

Consider other alternatives.

Note: Multiple rows of silt fence are not recommended on the same slope.

- DEPTH = EIGHT INCHES MINIMUM. • WIDTH = FOUR INCHES MINIMUM.
- AFTER INSTALLING FENCE, BACKFILL WITH SOIL MATERIAL AND COMPACT (TO BURY AND ANCHOR THE LOWER PORTION OF THE FENCE FABRIC).

• NOTE: AN ALTERNATIVE TO TRENCHING IS TO USE MECHANICAL EQUIPMENT TO PLOW IN THE SILT FENCE.

MATERIALS AND SILT FENCE SPECIFICATIONS

• FABRIC WOVEN OR NON-WOVEN GEOTEXTILE FABRIC MEETING SPECIFIED MINIMUMS OUTLINED IN TABLE 2.

Table 2. Geotextile Fabric Specifications for Silt Fence (minimum)

Physical Property	Woven Geotextile Fabric	Non-Woven Geotextile Fabric 85%	
Filtering efficiency	85%		
Textile strength at 20% elongation Standard strength Extra strength	30 lbs. per linear inch 50 lbs. per linear inch	50 lbs. per linear inch 70 lbs. per linear inch	
Slurry flow rate	0.3 gal./min./square feet	4.5 gal./min./square feet	
Water flow rate	15 gal./min./square feet	220 gal./min./square feet	
UV resistance	70%	85%	
Post spacing	7 feet	5 feet	

Note: Silt fences can be purchased commercially.

- HEIGHT A MINIMUM OF 18 INCHES ABOVE GROUND LEVEL (30 INCHES
- MAXIMUM). • REINFORCEMENT - FABRIC SECURELY FASTENED TO POSTS WITH
- WOOD LATHE

NOT TO SCALE

- SUPPORT POSTS o 2 X 2 INCH HARDWOOD POSTS. STEEL FENCE POSTS MAY BE SUBSTITUTED FOR HARDWOOD POSTS (STEEL POSTS SHOULD HAVE PROJECTIONS FOR FASTENING FABRIC).
- SPACING EIGHT FEET MAXIMUM IF FENCE IS SUPPORTED BY WIRE MESH FENCING. SIX FEET MAXIMUM FOR EXTRA-STRENGTH FABRIC WITHOUT WIRE BACKING.

INSTALLATION

• LAY OUT THE LOCATION OF THE FENCE SO THAT IT IS PARALLEL TO THE CONTOUR OF THE SLOPE AND AT LEAST 10 FEET BEYOND THE TOE OF THE SLOPE TO PROVIDE A SEDIMENT STORAGE AREA. TURN THE ENDS OF THE FENCE UP SLOPE SUCH THAT THE POINT OF CONTACT BETWEEN THE GROUND AND THE BOTTOM OF THE FENCE END TERMINATES AT A HIGHER ELEVATION THAN THE TOP OF THE FENCE AT ITS LOWEST POINT.

DETAIL - SILT FENCE

- EXCAVATE AN EIGHT-INCH DEEP BY FOUR-INCH WIDE TRENCH ALONG THE ENTIRE LENGTH OF THE FENCE LINE (SEE EXHIBIT 2). INSTALLATION BY PLOWING IS ALSO ACCEPTABLE.
- INSTALL THE SILT FENCE WITH THE FILTER FABRIC LOCATED ON THE UP-SLOPE SIDE OF THE EXCAVATED TRENCH AND THE SUPPORT POSTS ON THE DOWN-SLOPE SIDE OF THE TRENCH.
- DRIVE THE SUPPORT POSTS AT LEAST 18 INCHES INTO THE GROUND, TIGHTLY STRETCHING THE FABRIC BETWEEN THE POSTS AS EACH IS DRIVEN INTO THE SOIL. A MINIMUM OF 12 INCHES OF THE FILTER FABRIC SHOULD EXTEND INTO THE TRENCH. (IF IT IS NECESSARY TO JOIN THE ENDS OF TWO FENCES, USE THE WRAP JOINT METHOD).
- LAY THE LOWER FOUR INCHES OF FILTER FABRIC ON THE BOTTOM OF THE TRENCH AND EXTEND IT TOWARD THE UP-SLOPE SIDE OF THE • BACKFILL THE TRENCH WITH SOIL MATERIAL AND COMPACT IT IN
- PLACE.
- NOTE: IF THE SILT FENCE IS BEING CONSTRUCTED ON-SITE, ATTACH THE FILTER FABRIC TO THE SUPPORT POSTS (REFER TO TABLES 1 AND 2 FOR SPACING AND GEOTEXTILE SPECIFICATIONS) AND ATTACH WOODEN LATHE TO SECURE THE FABRIC TO THE POSTS. ALLOW FOR AT LEAST 12 INCHES OF FABRIC BELOW GROUND LEVEL. COMPLETE THE SILT FENCE INSTALLATION, FOLLOWING STEPS ABOVE.

MAINTENANCE

- INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- IF FENCE FABRIC TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY. NOTE: ALL REPAIRS SHOULD MEET SPECIFICATIONS AS **OUTLINED WITHIN THIS MEASURE**
- REMOVE DEPOSITED SEDIMENT WHEN IT IS CAUSING THE FILTER FABRIC TO BULGE OR WHEN IT REACHES ONE-HALF THE HEIGHT OF THE FENCE AT ITS LOWEST POINT. WHEN CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND SEDIMENT DEPOSITS, GRADE THE SITE TO BLEND WITH THE SURROUNDING AREA. AND STABILIZE.

THIS RECORD DOCUMENT HAS BEEN PREPARED BASED ON GRW ENGINEERS, INC. HAS ATTEMPTED TO VERIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION BU SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT ENGINEER/ARCHITECT: JOSEPH P. TIERNEY CONSTRUCTION COMPANY: B.L. BROWN COSNTRUCTION DATE: <u>08/29/2023</u>

issued, sealed, and signed by Joseph P Tierney, Indiana Professional Engineer, No.19300407, on July 2022, shall not be used in lieu of a certified document.

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