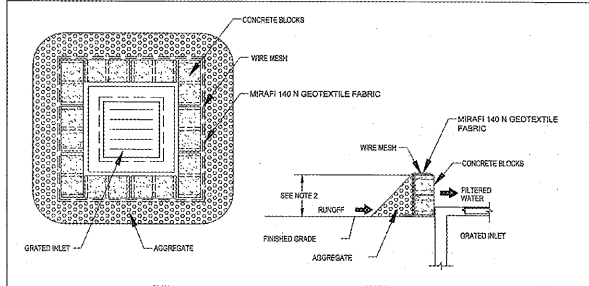


RECEIVED  
MAR 22 2018  
1234 E. SUNSHINE ST. SUITE 417  
SPRINGFIELD, MO

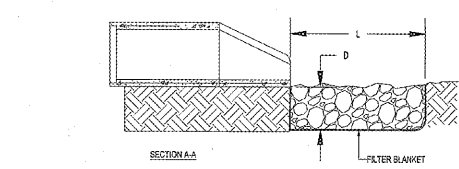
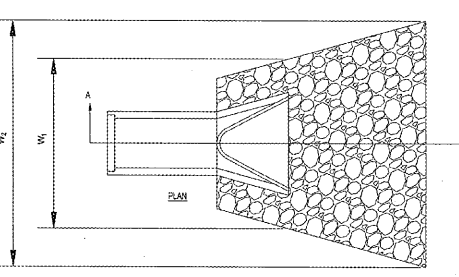


**CONCRETE BLOCKS**  
**WIRE MESH**  
**MIRAFI 140 N GEOTEXTILE FABRIC**  
**GRATE INLET**  
**AGGREGATE**  
**SECTION**  
**CONCRETE BLOCKS**  
**WIRE MESH**  
**MIRAFI 140 N GEOTEXTILE FABRIC**  
**GRATED INLET**  
**AGGREGATE**  
**FISHED GRADE**  
**GRATED INLET**

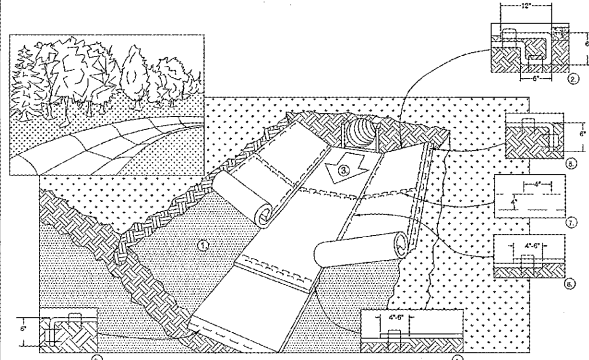
- NOTES:**
1. PLACE CONCRETE BLOCKS IN A SINGLE ROW AROUND PERIMETER OF INLET ON THEIR SIDES, WITH ENDS OF ADJACENT BLOCKS ABUTTING. HEIGHT OF BARRIER VARIES. USE STACKS OF 4", 8" OR 12" BLOCKS. MIN. HEIGHT OF BARRIER SHALL BE 12" AND MAX. HEIGHT SHALL BE 24".
  2. PLACE HARDWARE CLOTH WIRE MESH W/ MAX. 1/2" OPENINGS OVER VERTICAL FACE OF CONCRETE BLOCKS.
  3. THE AGGREGATE SHALL BE 3/4" ANGLE IRON CLEAN STOCK, WHICH WILL SLOW THE FLOW OF THE WATER AND ALLOW IT TO FILTER THROUGH AND OVER THE MATERIAL BEFORE ENTERING THE INLET.
- MAINTENANCE NOTES:**
1. INLET PROTECTION DEVICES MUST BE INSPECTED FOR SEDIMENT ACCUMULATION WITHIN THE CATCH BASIN (IF USING INSET-TYPE DEVICE) OR UPSTREAM OF THE INLET.
  2. REMOVAL OF SEDIMENT ACCUMULATED IN OR ADJACENT TO A STORM DRAIN INLET MUST BEGIN IMMEDIATELY UPON DISCOVERY, WITH COMPLETION OF THE ACTIVITY OCCURRING NO LATER THAN THE END OF THE FOLLOWING BUSINESS DAY.
  3. INLET PROTECTION DEVICES SHALL BE INSPECTED FOR UNDESIRABLE BYPASS OR IMPROPER FLOW-PATHS THAT MAY CAUSE DOWNSTREAM FLOODING.
  4. CONTACT THE CEC FOR ALTERNATE INLET PROTECTION IF THE DESIGNED PROTECTION MAY IMPACT DOWNSTREAM BMPs, ADJACENT SLOPES, ETC. DUE TO PONDING ISSUES. ENSURE THAT NO UNDESIRABLE INLET PROTECTION DEVICES HAS OCCURRED.
  5. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.
- NOCDNR MAINTENANCE NOTE:**  
TEMPORARY BLOCK AND AGGREGATE INLET PROTECTION: INSPECT THE BARRIER AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL AND MAKE REPAIRS AS NEEDED. REMOVE SEDIMENT FROM THE SURFACE OF THE BARRIER AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL. PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE ALL MATERIALS AND ANY UNDESIRABLE SOIL AND EITHER SALVAGE OR DISPOSE OF IT PROPERLY. BRING THE DISTURBED AREA TO PROPER GRADE, THEN SMOOTH AND COMPACT IT APPROPRIATELY. STABILIZE ALL BARE AREAS AROUND THE INLET.

**BLOCK AND AGGREGATE INLET PROTECTION**  
NOT TO SCALE

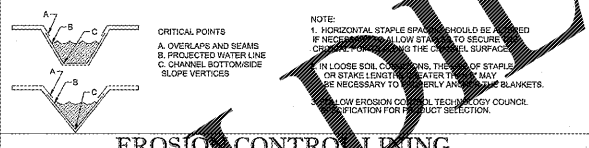
OUTLET NO.	RIPRAP SIZE (IN)	RIPRAP TYPE	INITIAL WIDTH (FT)	TERMINAL WIDTH (FT)	LENGTH (FT)
EW1	18	CLASS 2	12	6.0	8.0



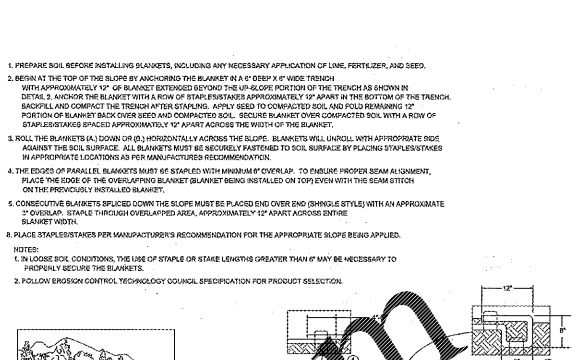
**RIPRAP OUTLET PROTECTION**  
NOT TO SCALE



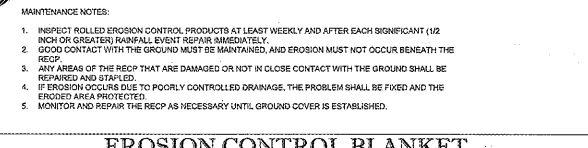
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 4" DEEP X 4" WIDE TRENCH WITH APPROXIMATELY 1/2" OF BLANKET EXTENDING BEYOND THE UP-SLOPE PORTION OF THE TRENCH AS SHOWN IN DETAIL 1. ANCHOR THE BLANKET WITH A ROW OF STAPLES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 1/2" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAPLES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAPLES IN APPROPRIATE LOCATIONS AS PER MANUFACTURER'S RECOMMENDATIONS.
4. PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4" OVERLAP. USE A DOUBLE ROW OF STAPLES/STAPLES 4" APART AND 4" ON CENTER TO SECURE BLANKETS.
5. FULL LENGTH ENDS OF BLANKETS AT TOP OF SLOPE MUST BE ANCHORED WITH A ROW OF STAPLES/STAPLES APPROXIMATELY 12" APART IN A 4" DEEP X 4" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 4" OF OVERLAPPING BLANKET TYPE AND STAPLED. TO INSURE PROPER BEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE BEAM STITCH ON THE BLANKET BEING OVERLAPPED.
7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 45 FOOT (9-15M) INTERVALS. USE A DOUBLE ROW OF STAPLES/STAPLES 4" APART AND 4" ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
8. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAPLES APPROXIMATELY 12" APART IN A 4" DEEP X 4" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
9. PLACE STAPLES/STAPLES PER MANUFACTURER'S RECOMMENDATION FOR THE APPROPRIATE CHANNEL FLOW CONTROL APPLICATION.



**EROSION CONTROL BLANKET (CHANNEL INSTALLATION)**  
NOT TO SCALE

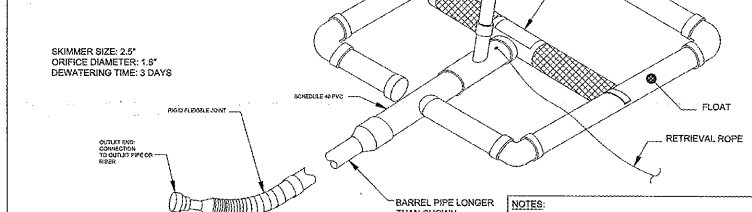


1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 4" DEEP X 4" WIDE TRENCH WITH APPROXIMATELY 1/2" OF BLANKET EXTENDING BEYOND THE UP-SLOPE PORTION OF THE TRENCH AS SHOWN IN DETAIL 1. ANCHOR THE BLANKET WITH A ROW OF STAPLES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 1/2" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAPLES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS UP (DOWN OR UP) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAPLES IN APPROPRIATE LOCATIONS AS PER MANUFACTURER'S RECOMMENDATIONS.
4. THE EDGES OF PARALLEL BLANKETS MUST BE SEARED WITH MINIMUM 4" OVERLAP. TO ENSURE PROPER BEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET BEING INSTALLED ON TOP EVEN WITH THE BEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 4" OVERLAP. STAPLES/STAPLES MUST BE PLACED AT 4" ON CENTER TO SECURE BLANKETS.
6. PLACE STAPLES/STAPLES PER MANUFACTURER'S RECOMMENDATION FOR THE APPROPRIATE SLOPE BEING APPLIED.
7. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 4" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
8. FOLLOW EROSION CONTROL TECHNOLOGY MANUAL SPECIFICATION FOR PRODUCT SELECTION.

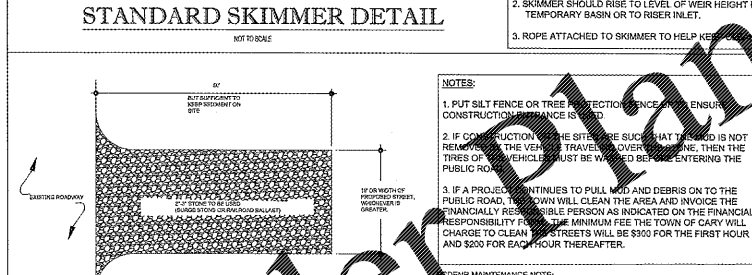


**EROSION CONTROL BLANKET (SLOPE INSTALLATION)**  
NOT TO SCALE

**NOCDNR MAINTENANCE NOTE:**  
SKIMMER: INSPECT SKIMMER AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (ONE-HALF INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. PULL THE SKIMMER TO ONE SIDE SO THAT THE SEDIMENT UNDERNEATH IT CAN BE EXCAVATED. EXCAVATE THE SEDIMENT FROM THE ENTIRE BASIN, NOT JUST AROUND THE SKIMMER OR THE FIRST CELL. MAKE SURE VEGETATION GROWING IN THE BOTTOM OF THE BASIN DOES NOT HOLD DOWN THE SKIMMER. IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY, REMOVING THE ROPE WILL MAKE THE SKIMMER POP UP AND DOWN AND DISLODGE THE DEBRIS AND RESTORE FLOW. IF THIS DOES NOT WORK, PULL THE SKIMMER OVER TO THE SIDE OF THE BASIN AND REMOVED. IF SO REMOVED, CHECK THE ORIFICE INSIDE THE SKIMMER TO SEE IF IT IS CLOGGED; IF SO REMOVE THE DEBRIS. IF THE SKIMMER ARM OR BARREL PIPE IS CLOGGED, THE ORIFICE CAN BE REMOVED AND THE OBSTRUCTION CLEARED WITH A PLUMBER'S SNAKE OR BY FLUSHING WITH WATER. BE SURE AND REPLACE THE ORIFICE BEFORE REPOSITIONING THE SKIMMER. FREEZING WEATHER CAN RESULT IN ICE FORMING IN THE BASIN. SOME SPECIAL PRECAUTIONS SHOULD BE TAKEN IN THE WINTER TO PREVENT THE SKIMMER FROM PLUGGING WITH ICE.



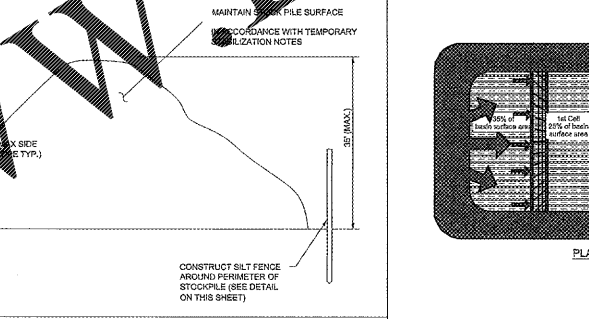
**STANDARD SKIMMER DETAIL**  
NOT TO SCALE



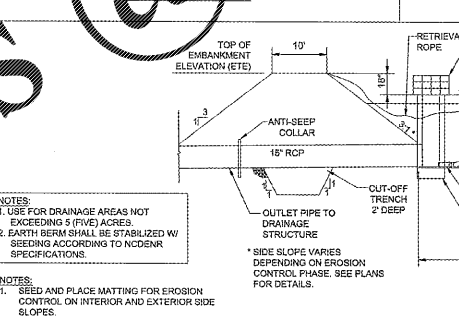
**STANDARD CONSTRUCTION ENTRANCE**  
NOT TO SCALE

- NOTES:**
1. CONCRETE WASTE MANAGEMENT PERTAINS TO WASTE FROM CONCRETE READY-MIX TRUCKS, MASONRY OPERATIONS, AND SIMILAR WASTE.
  2. CONCRETE MATERIALS ON-SITE, INCLUDING EXCESS CONCRETE, SHALL BE CONTROLLED AND MANAGED TO AVOID CONTACT WITH SURFACE WATERS, WETLANDS OR STREAMS. NO CONCRETE OR CEMENT SLURRY SHALL BE DISCHARGED FROM THE SITE. ALL HARDENED CONCRETE RESIDUE WILL BE DISPOSED OF, OR RECYCLED ON SITE, IN ACCORDANCE WITH LOCAL AND STATE SOLID WASTE REGULATIONS.
  3. DISCHARGE OF EXCESS OR WASTE CONCRETE AND/OR WASH WATER FROM CONCRETE TRUCKS IS ALLOWED AT THE CONSTRUCTION SITE. ONLY COMMERCIAL WASTE CONTAINERS ARE ALLOWED AND SHALL BE PROTECTED FROM VEHICLE TRAFFIC AND CLEARLY IDENTIFIED BY LEGIBLE SIGNAGE, AND SHALL BE LOCATED OUTSIDE OF VEGETATED AREAS AND AS FAR AS PRACTICABLE FROM STORMWATER CONVEYANCE AND IMPOUNDMENTS AND WATER BODIES. PORTABLE CONCRETE WASTE CONTAINERS SHALL CONTAIN AN ACTIVE MANAGEMENT SYSTEM TO MANAGE BOTH UNHARDENED AND HARDENED CONCRETE. CONCRETE WASTE CONTAINERS SHALL BE PLACED TO MANAGE UNHARDENED CONCRETE. THE REMAINING VOLUME IS REDUCED BY BLENDING WITH A FINAL OVERLAY IN A STORM EVENT.
  4. ALTERNATIVELY, WASTE CONCRETE CAN BE PLACED IN BAGS TO BE USED IN ANOTHER USEFUL CONCRETE PRODUCTS. PORTABLE CONCRETE WASTE CONTAINERS SHALL BE DISPOSED IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. THE GC IS RESPONSIBLE FOR ASSURE COMPLIANCE WITH THESE REGULATIONS. THE LOCATION OF CONCRETE WASTE CONTAINERS SHALL BE SHOWN ON THE SITE MAP.

**CEMENT AND CONCRETE WASHOUT**  
NOT TO SCALE



**TEMPORARY STOCKPILE DETAIL**  
NOT TO SCALE



**TEMPORARY SKIMMER BASIN**  
NOT TO SCALE

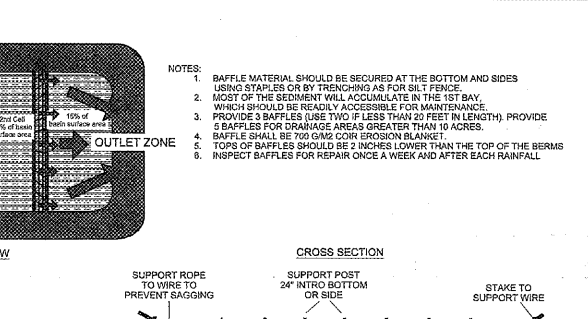
**DESIGN OF SPILLWAYS**

DRAINAGE AREA (ACRES)	WEIR LENGTH (FT)
1	4.0
2	6.0
3	8.0
4	10.0
6	12.0

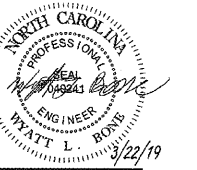
DIMENSIONS SHOWN ARE MINIMUM

**SKIMMER BASIN CROSS SECTION**

BASIN NO.	Z1 (FT)	TOP ABE. ELEV. (FT)	EMBANKMENT TOP ELEV. (FT)	CLEAN BE ELEV. (FT)	BOTTOM ELEV. (FT)	SKIMMER INVERT ELEV. (FT)
1	3	695.34	699.0	695.17	684.0	687.5



**BAFFLES DETAIL**  
NOT TO SCALE



**CRAIG A. SCHNEIDER, AIA**  
**ARCHITECT**  
1736 East Sunshine, Suite 417  
Springfield, Missouri 65804  
417.862.0558  
417.862.3265  
e-mail: architect@esterlyschneider.com

**PROJECT:**  
NEW O'REILLY AUTO PARTS STORE  
N. MAIN ST.  
WALNUT COVE, NC  
**EROSION & SEDIMENT CONTROL DETAILS I**

**O'Reilly AUTO PARTS**  
CORPORATE OFFICES  
233 SOUTH PATTERSON  
SPRINGFIELD, MISSOURI 65802  
(417) 862-2574 TELEPHONE

COMM # 4300  
DATE: 3-22-19  
REVISION DATE:  
REVISION DATE:



KNOW WHAT'S BELOW  
ALWAYS CALL 811  
BEFORE YOU DIG  
It's fast. It's free. It's law.



**BOHLER ENGINEERING NC, PLLC**  
4130 PARKWAY EAST SUITE 200 GREENSBORO, NC 27402  
PHONE (319) 754-9401 FAX (319) 753-3395

PROJECT No.: NCR182158 SCALE:  
DRAWN BY / CHECKED BY: CB/WLB CAD I.D.: NCR182158-SDP-0

**C3.3**