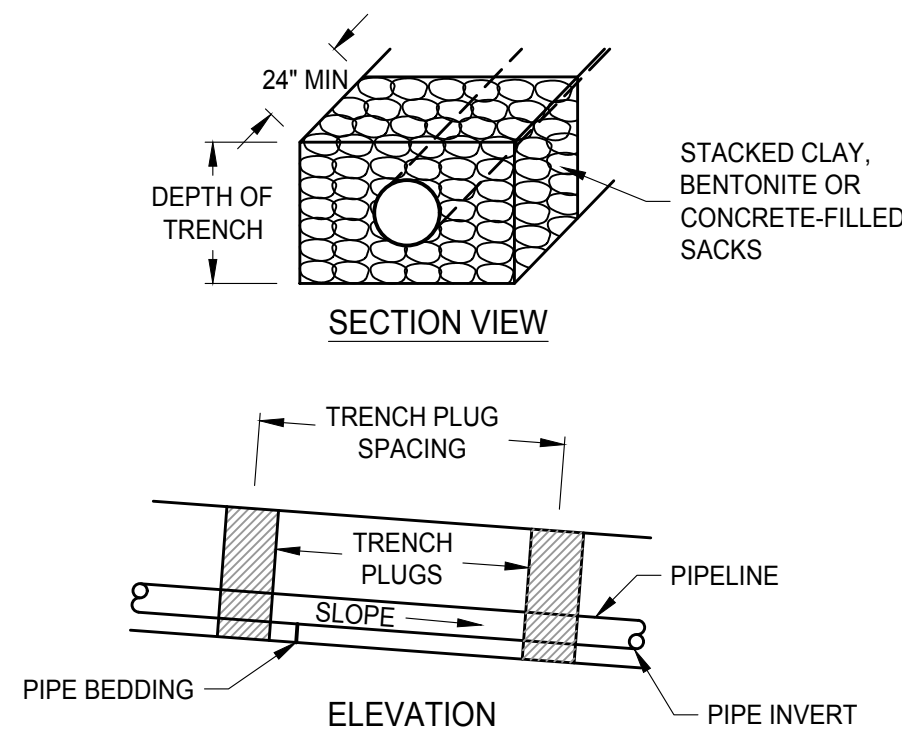


- GENERAL NOTES:**
1. A STABILIZED PAD OF WASHED STONE SHALL BE LOCATED WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC STREET.
 2. STONE TO BE SURGE STONE OR 2"-3" RAILROAD BALLAST.
 3. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS OR EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 4. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC STREETS MUST BE REMOVED IMMEDIATELY.
 5. WHEN NECESSARY, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING A PUBLIC STREET. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN.
 6. FILTER FABRIC SHALL BE MIRAFI 500 OR EQUIVALENT.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE DETAIL

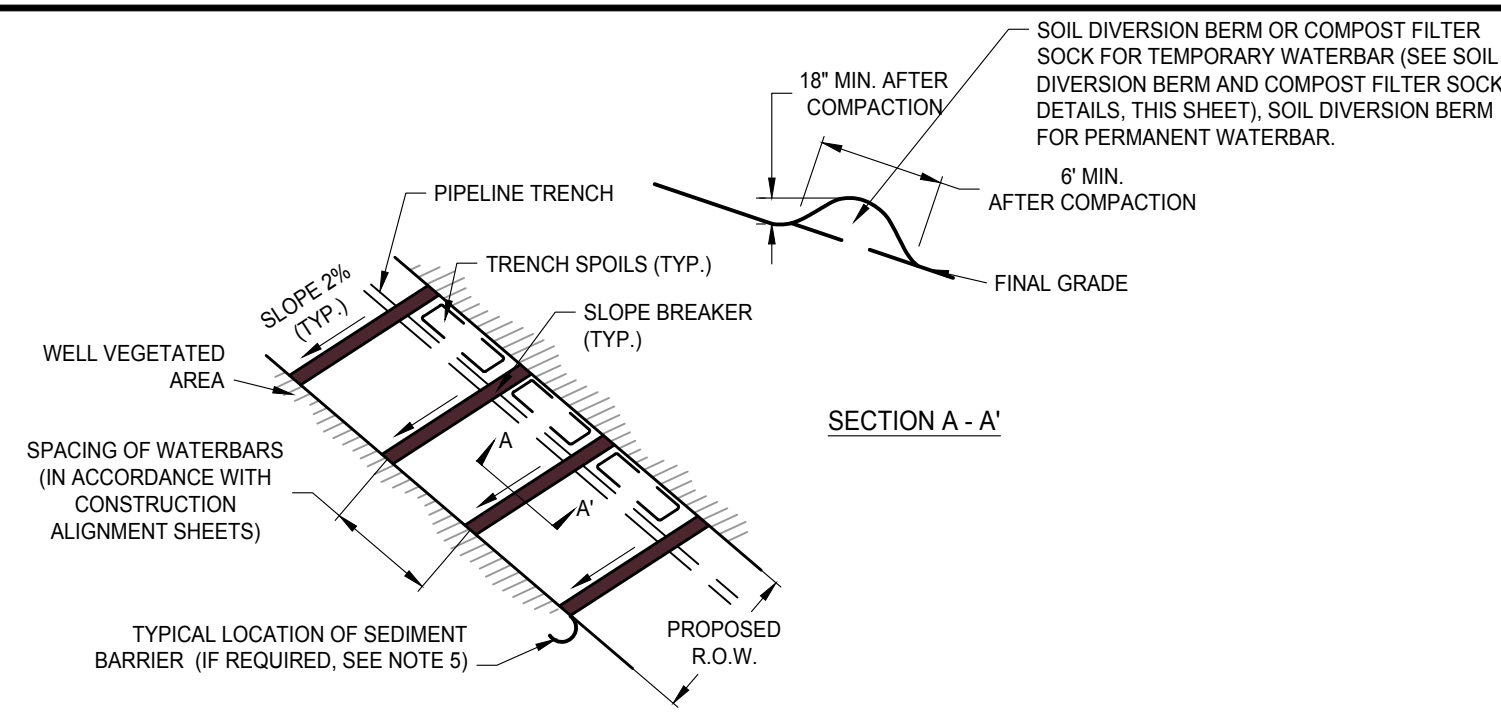
NOT TO SCALE



- CONSTRUCTION NOTES:**
1. TRENCH PLUGS ARE REQUIRED AT ALL STREAM, RIVER, WETLAND, OR OTHER WATER BODY CROSSINGS REGARDLESS OF TRENCH SLOPE.
 2. TOPSOIL MAY NOT BE USED TO FILL SACKS.
 3. TRENCH PLUG LOCATION AND SPACING SHALL BE IN ACCORDANCE WITH CONSTRUCTION ALIGNMENT SHEETS, OR AS OTHERWISE DIRECTED BY THE EI.

TRENCH PLUG DETAIL

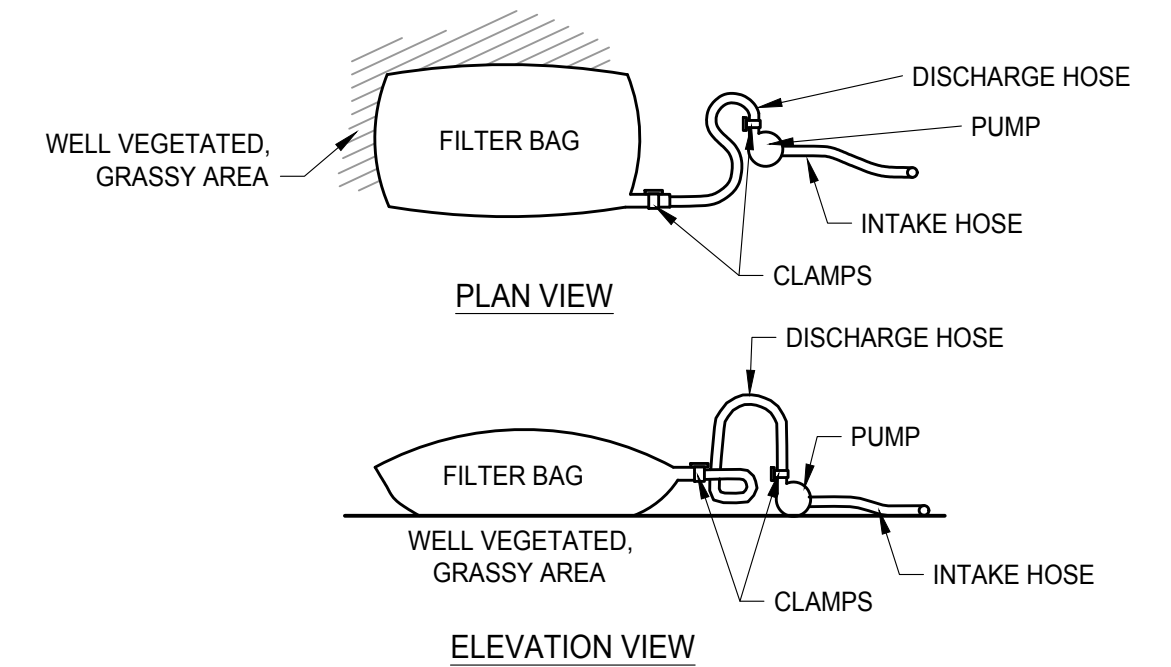
NOT TO SCALE



- NOTES:**
1. TEMPORARY SLOPE BREAKERS SHALL BE INSTALLED UPON INITIAL DISTURBANCE OF THE SOIL. PERMANENT WATERBARS SHALL BE INSTALLED AFTER THE TRENCH HAS BEEN BACKFILLED.
 2. WATERBARS SHALL NOT DISCHARGE TO THE OPEN TRENCH AND SHOULD BE ALIGNED SO THAT DISCHARGES DO NOT FLOW BACK ONTO THE RIGHT-OF-WAY. RUNOFF SHALL BE DIRECTED TO THE DOWNSLOPE SIDE OF THE DISTURBED AREA.
 3. SLOPES GREATER THAN 30% MAY REQUIRE THE INSTALLATION OF A PARALLEL COLLECTION DITCH AND SEDIMENT TRAP AT THE BOTTOM OF THE SLOPE IN PLACE OF WATERBARS.
 4. WATERBARS MUST BE INSTALLED AT ALL PUBLIC ROADWAY AND RAILROAD CUT SLOPES.
 5. IF A SUITABLE VEGETATIVE FILTER STRIP DOES NOT EXIST AT THE POINT OF DISCHARGE FOR ANY WATERBAR, A SEDIMENT BARRIER SHALL BE PROVIDED (E.G., FILTER SOCK, SILT FENCE, OR SOIL DIVERSION BERM, SEE DETAILS, THIS SHEET).

RIGHT-OF-WAY DIVERSION (WATERBAR) DETAIL

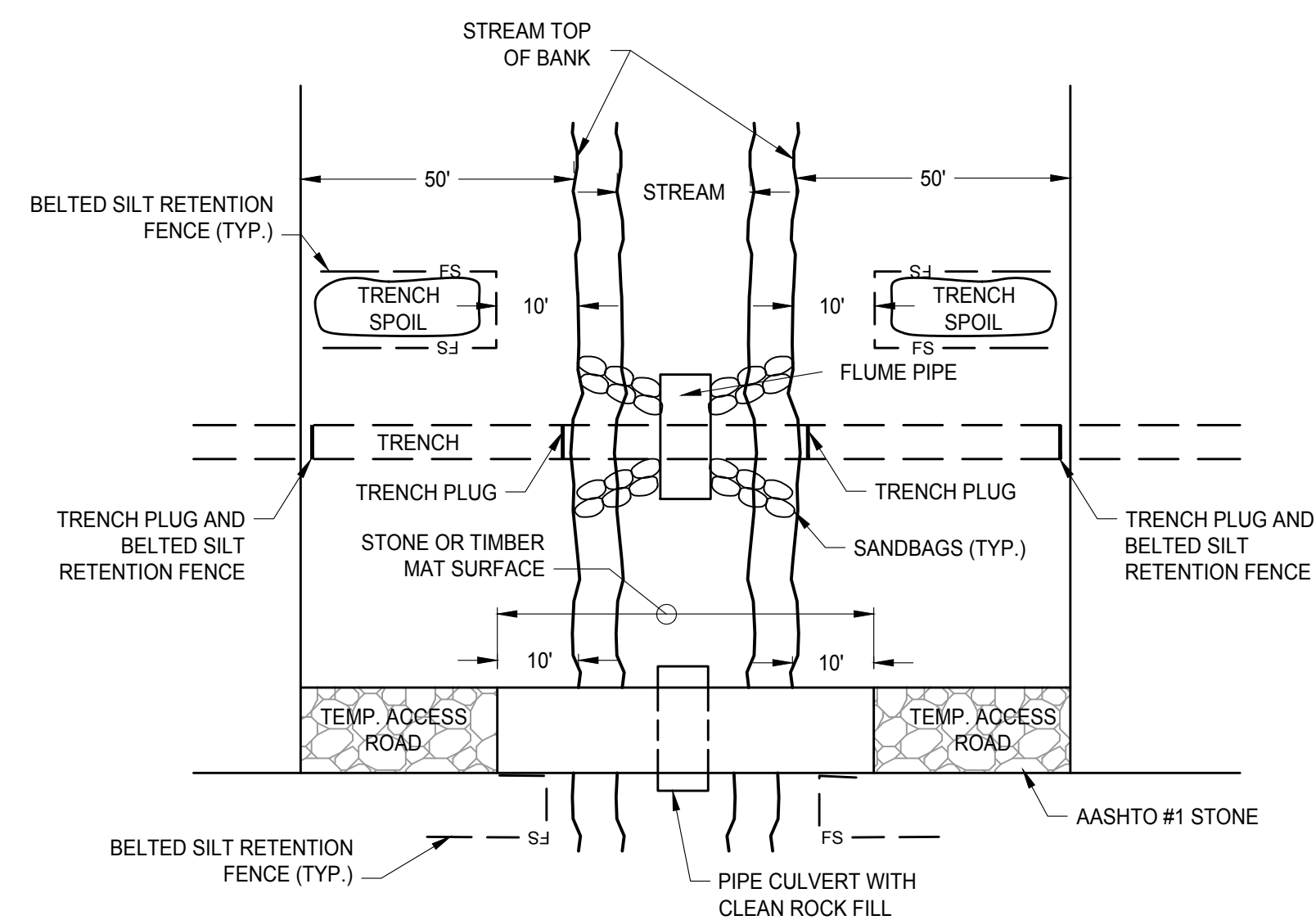
NOT TO SCALE



- CONSTRUCTION NOTES:**
1. FILTER BAGS MAY BE USED TO FILTER WATER PUMPED FROM DISTURBED AREAS PRIOR TO DISCHARGING TO WATERS OF THE COMMONWEALTH. THEY MAY ALSO BE USED TO FILTER WATER PUMPED FROM THE SEDIMENT STORAGE AREAS OF SEDIMENT BASINS.
 2. THE PUMPING RATE SHOULD BE DETERMINED BY THE CONTRACTOR BASED UPON THE ACTUAL AMOUNT OF GROUNDWATER ENCOUNTERED DURING CONSTRUCTION. PUMPING RATES WILL VARY DEPENDING ON THE SIZE OF THE FILTER BAG AND THE TYPE AND AMOUNT OF SEDIMENT DISCHARGED TO THE BAG.
 3. FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS.
 4. A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES MUST BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED.
 5. BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREAS AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE FLOW PATH SHALL BE PROVIDED. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%.
 6. THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED.
 7. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHOULD BE FLOATING AND SCREENED.

FILTER BAGS DETAIL

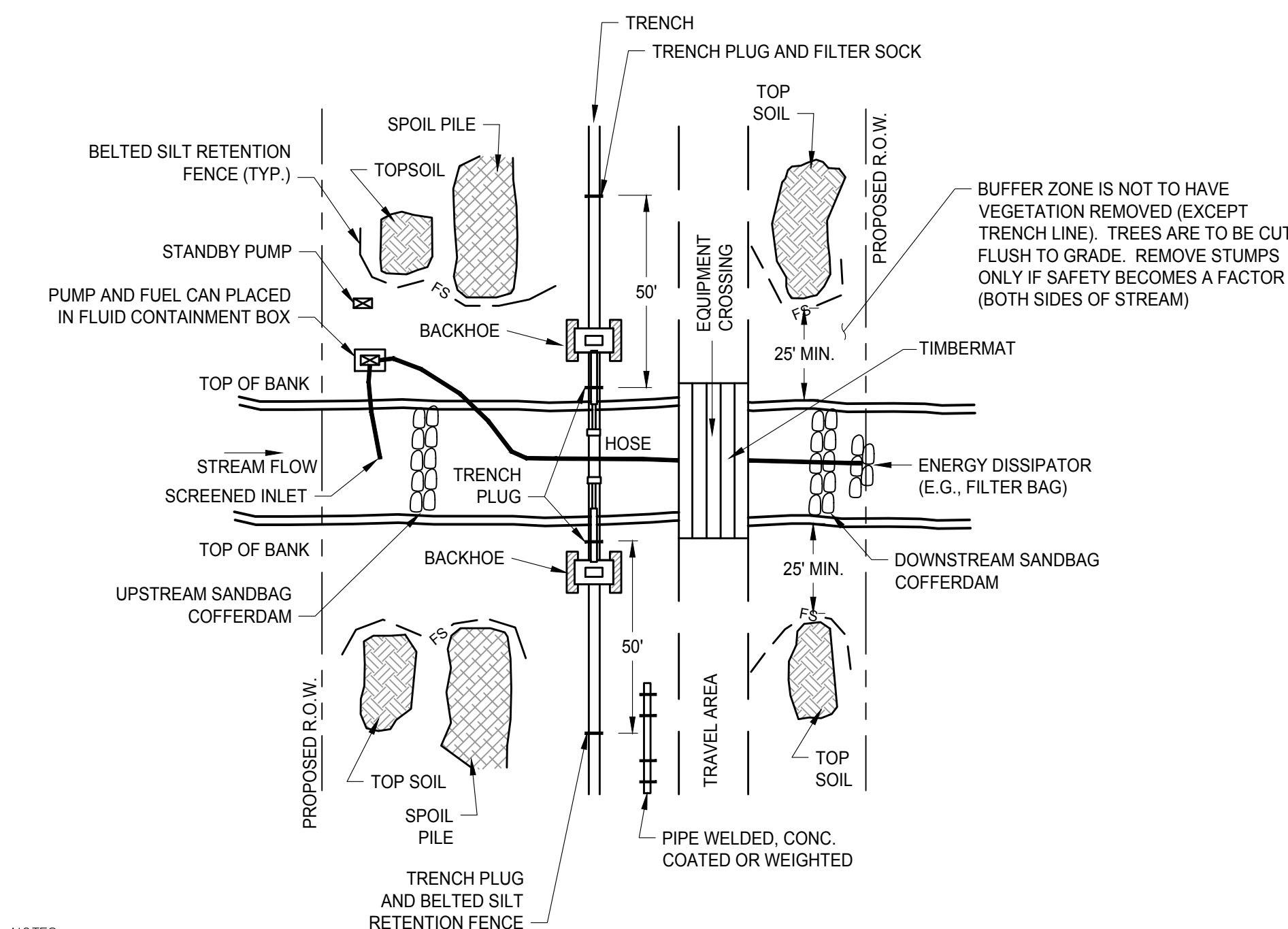
NOT TO SCALE



- NOTES:**
1. GRUBBING SHALL NOT TAKE PLACE WITHIN 50 FT OF TOP OF BANK UNTIL ALL MATERIALS REQUIRED TO COMPLETE THE CROSSINGS ARE ON SITE AND PIPE IS READY FOR INSTALLATION.
 2. PIPE CULVERT FOR FLUME AND ACCESS ROAD MAY BE ONE CONTINUOUS PIPE.
 3. WATER ACCUMULATING WITHIN THE WORK AREA SHALL BE PUMPED TO A PUMPED WATER FILTER BAG PRIOR TO DISCHARGING INTO SURFACE WATER.
 4. ALL EXCESS MATERIAL SHALL BE IMMEDIATELY REMOVED FROM THE STREAM CROSSING AREA.
 5. ALL DISTURBED AREAS WITHIN 50 FEET OF TOP OF BANK SHALL BE BLANKETED OR MATTED WITHIN 24 HOURS OF INITIAL DISTURBANCE FOR MINOR STREAMS OR 48 HOURS OF INITIAL DISTURBANCE FOR MAJOR STREAMS, UNLESS OTHERWISE AUTHORIZED.
- STREAM CROSSING RESTORATION:**
1. ONCE THE SOIL EROSION AND SEDIMENT CONTROL MEASURES AND THE REQUIRED WATER FLOW CONTROL MEASURES ARE IN PLACE, CONTRACTOR CAN PROCEED WITH TRENCH EXCAVATION.
 2. ALL EXCAVATED MATERIALS THAT WILL BE USED AS BACKFILL SHALL BE PLACED IN A TEMPORARY STOCKPILE LOCATED OUTSIDE THE CHANNEL. CHANNEL BED MATERIAL SHALL BE SEGREGATED FOR LATER USE. A SEDIMENT BARRIER SHALL BE INSTALLED BETWEEN THE STOCKPILE AND STREAM CHANNEL.
 3. COMPLETE TRENCH EXCAVATION FOR PIPELINE CONSTRUCTION, PLACE PIPELINE AND BACKFILL.
 4. STREAM BANKS SHALL BE RESTORED TO PRE-CONSTRUCTION CONFIGURATIONS, AS MUCH AS POSSIBLE, AND STABILIZED.
 5. RE-SEED RESTORED STREAM BANKS USING SEED MIXTURES AS SPECIFIED HEREIN.
 6. RESTORED STREAM BANKS AND ADJACENT DISTURBED AREAS TO BE STABILIZED WITH APPROVED EROSION CONTROL BLANKET USING MANUFACTURER RECOMMENDED STAPLES AND PATTERNS.
 7. PLACE SALVAGED BED MATERIAL ON THE CHANNEL BED IN THE DISTURBED AREA.

DRY DITCH CROSSING 1: FLUME CROSSING DETAIL

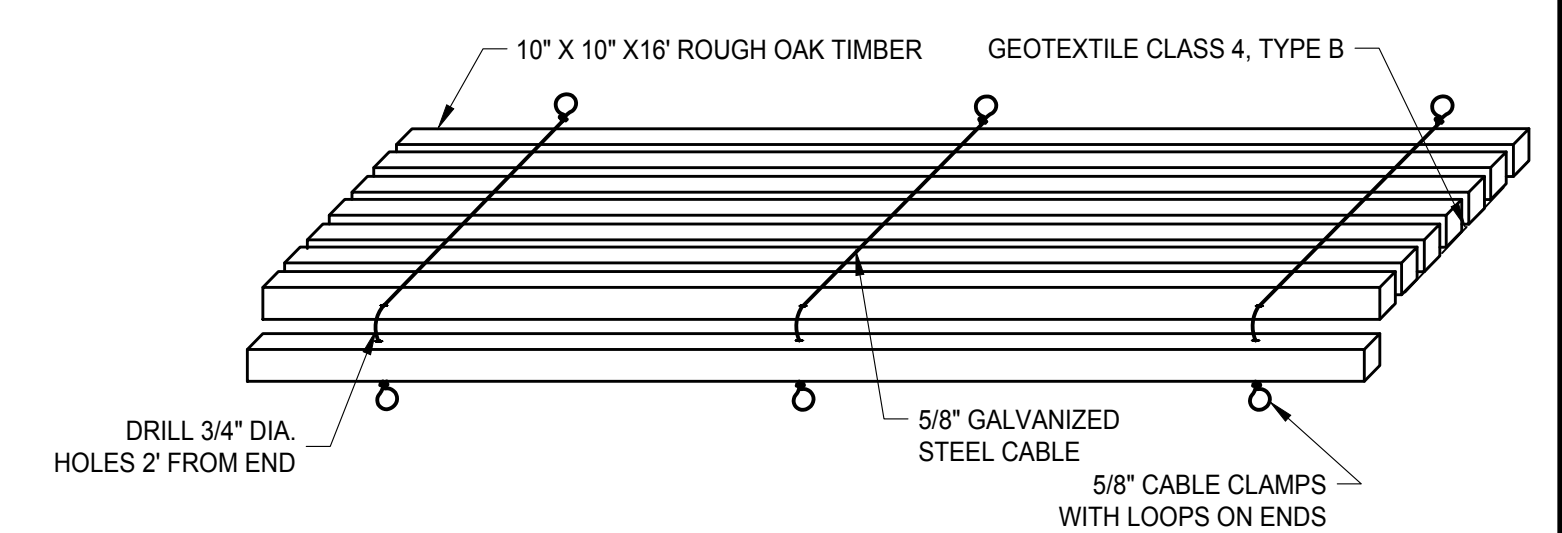
NOT TO SCALE



- NOTES:**
1. USE DAM AND PUMP METHOD ON NARROW WATERCOURSES WITH LIMITED STREAM FLOW TO PREVENT SEDIMENTATION AND INTERRUPTION OF STREAM FLOW DURING CROSSING CONSTRUCTION. IF FISH PASSAGE IS A CONCERN, THIS METHOD IS NOT APPROPRIATE.
 2. SCHEDULE CONSTRUCTION DURING PERIOD OF LOW STREAM FLOW.
 3. SET UP PUMP AND HOSE AS SHOWN, OR USE OTHER PRACTICAL ALTERNATIVES. PUMP SHOULD HAVE TWICE THE PUMPING CAPACITY OF ANTICIPATED FLOW. HAVE STANDBY PUMP ON SITE.
 4. INSTALL UPSTREAM DAM COMPOSED OF SANDBAGS OR CLEAN GRAVEL WITH PLASTIC UNDERLINING. INSTALL DOWNSTREAM DAM IF REQUIRED TO KEEP STREAMBED DRY.
 5. EXCAVATE TRENCH AND INSTALL PIPE BY LOWERING IN UNDER HOSE. MOVE HOSE AS REQUIRED OR DISCONNECT IF TEMPORARY FLOW BLOCKAGE IS ACCEPTABLE.
 6. DISMANTLE DOWNSTREAM DAM, THEN UPSTREAM DAM. KEEP PUMP RUNNING TO MAINTAIN FLOW.
 7. MONITOR DAM AND PUMP FOR PROPER OPERATION THROUGHOUT THE CROSSING INSTALLATION.
 8. IN HIGH QUALITY (HQ) OR EXCEPTIONAL VALUE (EV) STREAMS, USE 12" FILTER SOCK IN PLACE OF SILT FENCE.
 9. ENSURE DISTURBED AREAS ARE SEEDED AND MULCHED USING SEED MIXTURES AS SPECIFIED IN THE INCLUDED TABLE.
- STREAM CROSSING RESTORATION:**
1. ONCE THE SOIL EROSION AND SEDIMENT CONTROL MEASURES AND THE REQUIRED WATER FLOW CONTROL MEASURES ARE IN PLACE, CONTRACTOR CAN PROCEED WITH TRENCH EXCAVATION.
 2. ALL EXCAVATED MATERIALS THAT WILL BE USED AS BACKFILL SHALL BE PLACED IN A TEMPORARY STOCKPILE LOCATED OUTSIDE THE CHANNEL. CHANNEL BED MATERIAL SHALL BE SEGREGATED FOR LATER USE. A SEDIMENT BARRIER SHALL BE INSTALLED BETWEEN THE STOCKPILE AND STREAM CHANNEL.
 3. COMPLETE TRENCH EXCAVATION FOR PIPELINE CONSTRUCTION, PLACE PIPELINE AND BACKFILL.
 4. STREAM BANKS SHALL BE RESTORED TO PRE-CONSTRUCTION CONFIGURATIONS, AS MUCH AS POSSIBLE, AND STABILIZED.
 5. RE-SEED RESTORED STREAM BANKS AT THE RATE OF 15 LBS./ACRE WITH "RIPARIAN BUFFER MIX" BY ERNST CONSERVATION SEEDS (MIX ERNMIX-178) OR APPROVED EQUAL.
 6. RESTORED STREAM BANKS AND ADJACENT DISTURBED AREAS TO BE STABILIZED WITH APPROVED EROSION CONTROL BLANKET USING MANUFACTURER RECOMMENDED STAPLES AND PATTERNS.
 7. PLACE SALVAGED BED MATERIAL ON THE CHANNEL BED IN THE DISTURBED AREA.

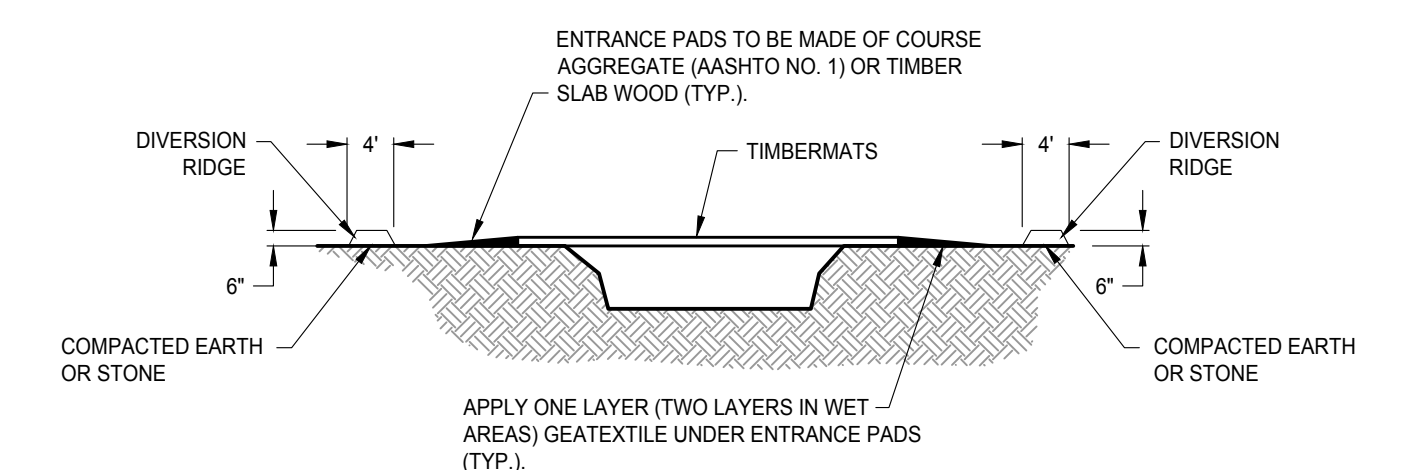
DRY DITCH CROSSING 2: DAM AND PUMP DETAIL

NOT TO SCALE



WETLAND TIMBER MATTING DETAIL

NOT TO SCALE

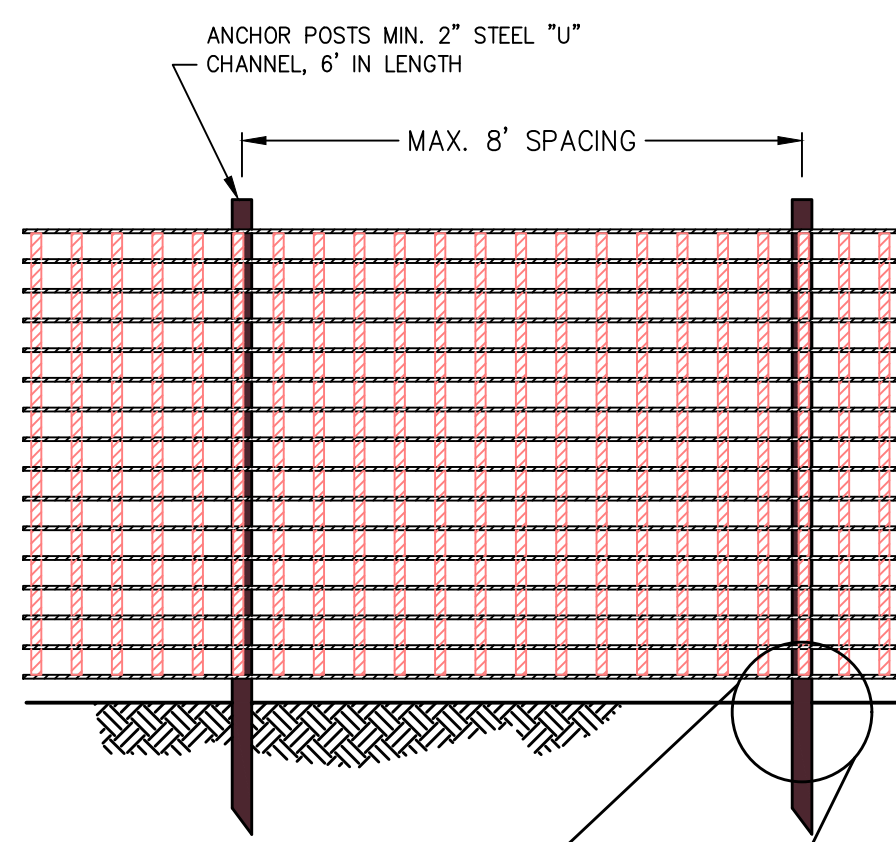


- NOTES:**
1. ONLY CLEARING EQUIPMENT AND EQUIPMENT NECESSARY FOR INSTALLATION OF EQUIPMENT BRIDGES MAY CROSS WATER BODIES PRIOR TO BRIDGE INSTALLATION. LIMIT THE CROSSING OF EACH WATERBODY TO ONE PIECE OF CLEARING EQUIPMENT.
 2. INSTALL BELTED SILT RETENTION FENCE ACROSS THE DISTURBED AREA OF THE RIGHT OF WAY.
 3. APPLY GEOTEXTILE UNDER ENTRANCE PADS.
 4. EXCESS MUD IS TO BE REMOVED FROM THE ENTRANCE PADS AND MATS DURING CONSTRUCTION.
 5. DURING FINAL CLEAN UP WHEN MATS, CULVERTS, CLEAN ROCK FILL, ETC. ARE REMOVED, INSTALL BELTED SILT RETENTION FENCE ACROSS THE ENTIRE RIGHT OF WAY ON BOTH SIDES OF STREAM.

TEMPORARY BRIDGE CROSSING

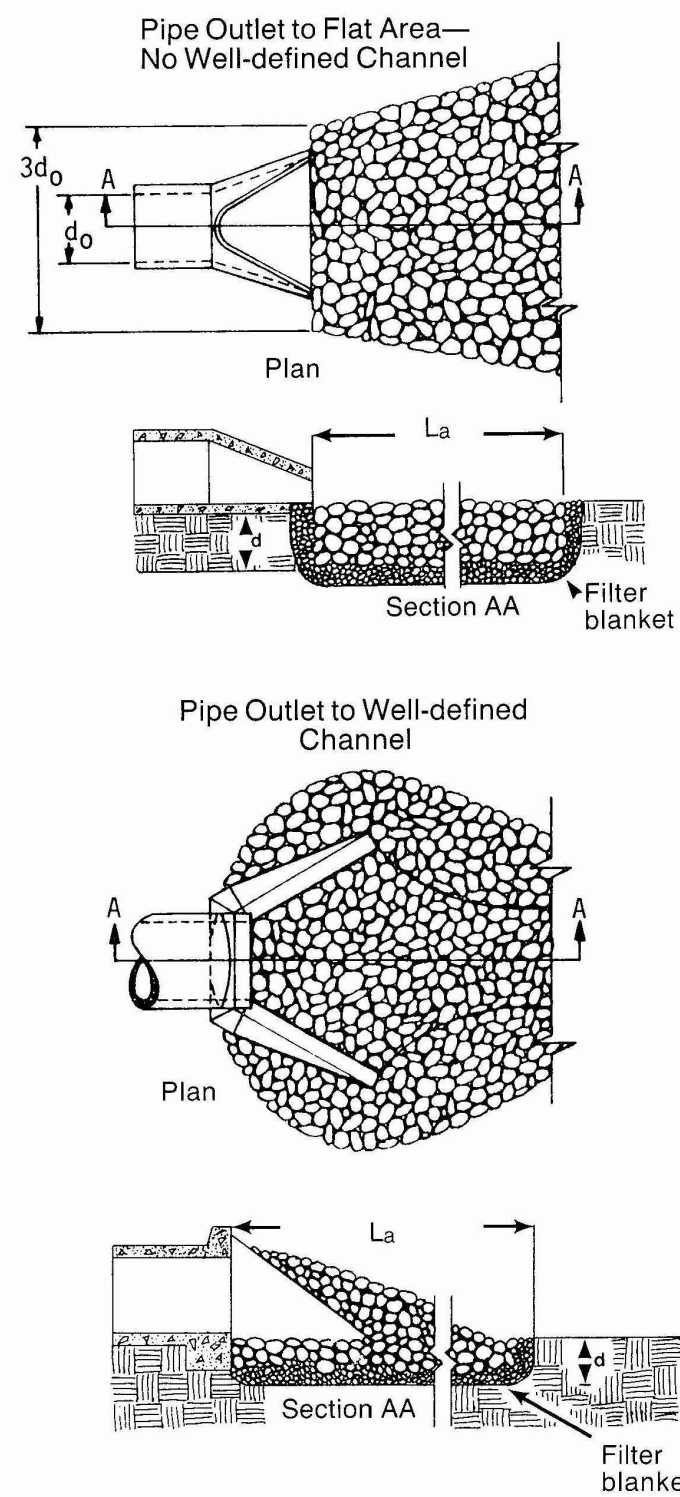
NOT TO SCALE

GENERAL NOTES AND COMMENTS:				REVISION INFORMATION		PROJECT/TASK	APP.	SEAL		Environmental Resources Management		Atlantic Coast Pipeline, LLC					
SYM.	DATE	BY										925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000 ATLANTIC COAST PIPELINE EROSION AND SEDIMENT CONTROL NOTES					
												DISTRICT:	COUNTY:	STATE: NC	GROUP:	DWG. NO.:	REV.:
												DIR/FILE:	ACPNorth Carolina/Details			1 OF 4	0
	03/09/17	JR										DRAWN:	JR	03/09/2017			
												CHECKED:	SL	03/03/2017			
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- NOTES:
- PROTECTION BARRIER SHALL BE 4' HIGH, CONSTRUCTED OF DURABLE AND HIGHLY VISIBLE MATERIAL (PLASTIC ORANGE CONSTRUCTION FENCE AND SNOW FENCE MAY BE USED).
 - PROTECTION BARRIERS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE WORK AT THE SITE.
 - ADDITIONAL WARNING SIGNS SHOULD ALSO BE PLACED ON THE FENCING AND IN APPROPRIATE AREAS NEAR THE WORK ZONE.

CONSTRUCTION FENCE DETAIL
NOT TO SCALE



OUTLET PROTECTION DETAIL
NOT TO SCALE

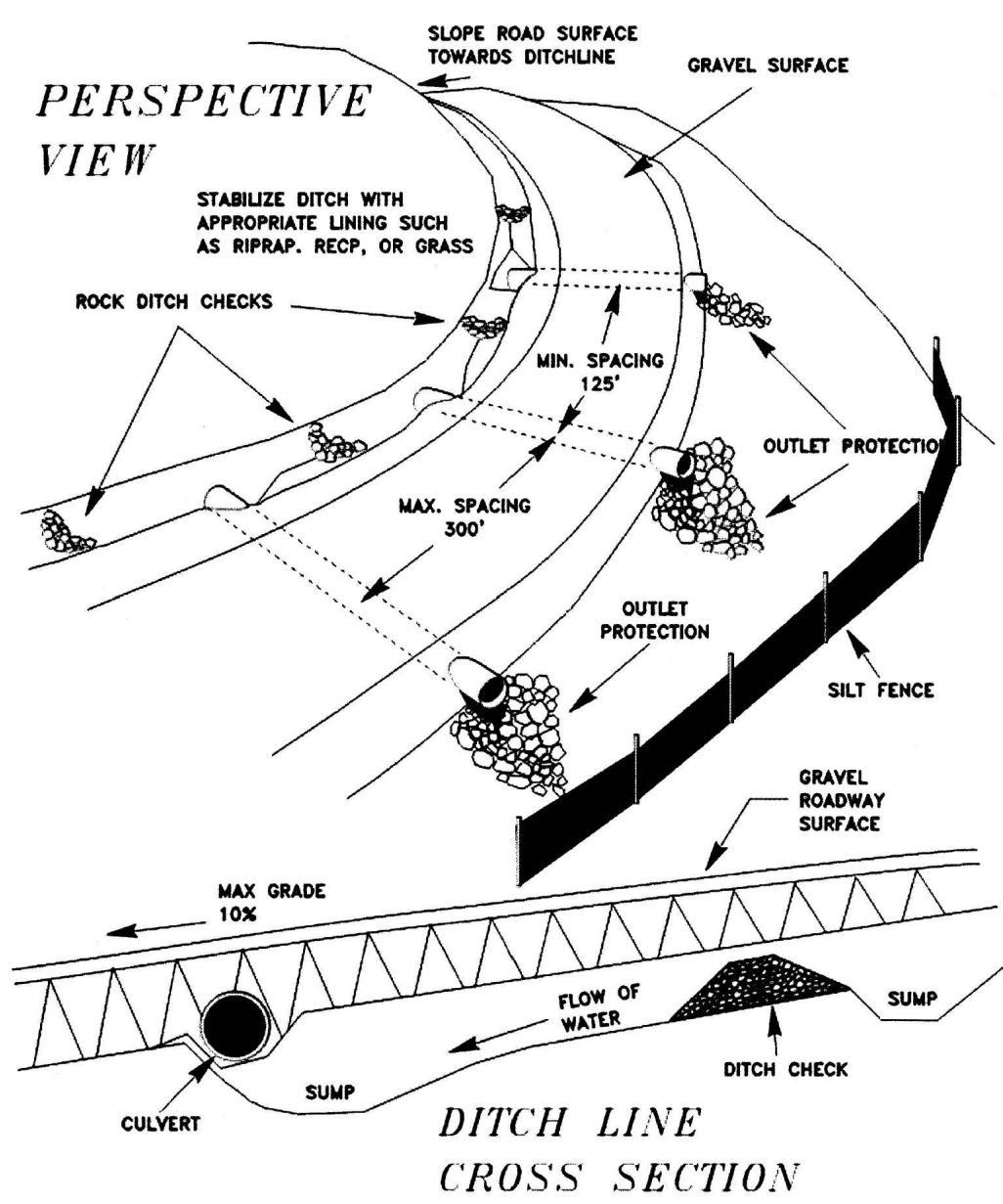
INTRODUCTION

- PROTECTIVE FENCING SHOULD BE INSTALLED TO PREVENT ACCESS TO POTENTIALLY HAZARDOUS AREAS OF A CONSTRUCTION SITE.
 - APPLICABLE TO ANY CONTROL MEASURE OR SERIES OF MEASURES, WHICH CAN BE CONSIDERED UNSAFE BY VIRTUE OF POTENTIAL FOR ACCESS BY THE PUBLIC. THE DESIGNER, DEVELOPER, AND CONTRACTOR SHOULD ALWAYS BE SURE THAT THE MOST APPROPRIATE TYPE OF FENCE IS UTILIZED FOR A PARTICULAR NEED.
 - SAFETY FENCES SHOULD BE LOCATED SO AS TO CREATE A FORMIDABLE BARRIER TO UNDESIRABLE ACCESS, WHILE ALLOWING FOR THE CONTINUATION OF NECESSARY CONSTRUCTION OPERATIONS.
 - SAFETY FENCES ARE MOST APPLICABLE TO THE CONSTRUCTION OF TRAPS AND DAMS. IN USE WITH THOSE STRUCTURES, SAFETY FENCES SHOULD BE LOCATED FAR ENOUGH BEYOND THE OUTER TOE OF THE EMBANKMENT TO ALLOW FOR THE PASSAGE OF MAINTENANCE VEHICLES. FENCES SHOULD NOT BE INSTALLED ACROSS THE SLOPE OF A DAM OR DIKE.
 - SIGNS NOTING POTENTIAL HAZARDS SUCH AS "DANGER" OR "HAZARDOUS AREA - KEEP OUT" SHOULD BE POSTED AND EASILY SEEN BY ANYONE APPROACHING THE PROTECTED AREA.
 - PLASTIC (POLYETHYLENE) FENCE MAY BE USED AS SAFETY FENCING, PRIMARILY IN SITUATIONS WHERE THE NEED IS FOR A TEMPORARY BARRIER. THE FENCE SHOULD MEET THE PHYSICAL REQUIREMENTS NOTED IN TABLE 3.04.1.
 - SAFETY FENCES SHOULD BE INSTALLED PRIOR TO THE SEDIMENT CONTROL MEASURE BECOMING ACCESSIBLE.
 - APPLICABLE WARNING SIGNS NOTING HAZARDOUS CONDITIONS MUST BE INSTALLED IMMEDIATELY UPON INSTALLATION OF SAFETY FENCE.
 - CHAIN LINK FENCE SHOULD BE USED FOR PERMANENT STRUCTURES (GREATER THAN ONE YEAR).
- MAINTENANCE**
- SAFETY FENCE SHALL BE CHECKED REGULARLY FOR WEATHER-RELATED OR OTHER DAMAGE. ANY NECESSARY REPAIRS MUST BE MADE IMMEDIATELY.
 - CARE SHOULD BE TAKEN TO SECURE ALL ACCESS POINTS (GATES) AT THE END OF EACH WORKING DAY. ALL LOCKING DEVICES MUST BE REPAIRED OR REPLACED AS NECESSARY.

TABLE 3.04.1 PHYSICAL PROPERTIES OF PLASTIC SAFETY FENCE

PHYSICAL PROPERTY	TEST	REQUIREMENTS
RECOMMENDED COLOR	N/A	INTERNATIONAL ORANGE
TENSILE YIELD	ASTM D638	AVERAGE 2,000 lbs.
ULTIMATE TENSILE STRENGTH	ASTM D638	AVERAGE 2,000 lbs. per 4FT. WIDTH
ELONGATION AT BREAK(%)	ASTM D638	GREATER THAN 1000%
CHEMICAL RESISTANCE	N/A	INERT TO MOST CHEMICALS/ACIDS

SAFETY FENCE SPECIFICATIONS

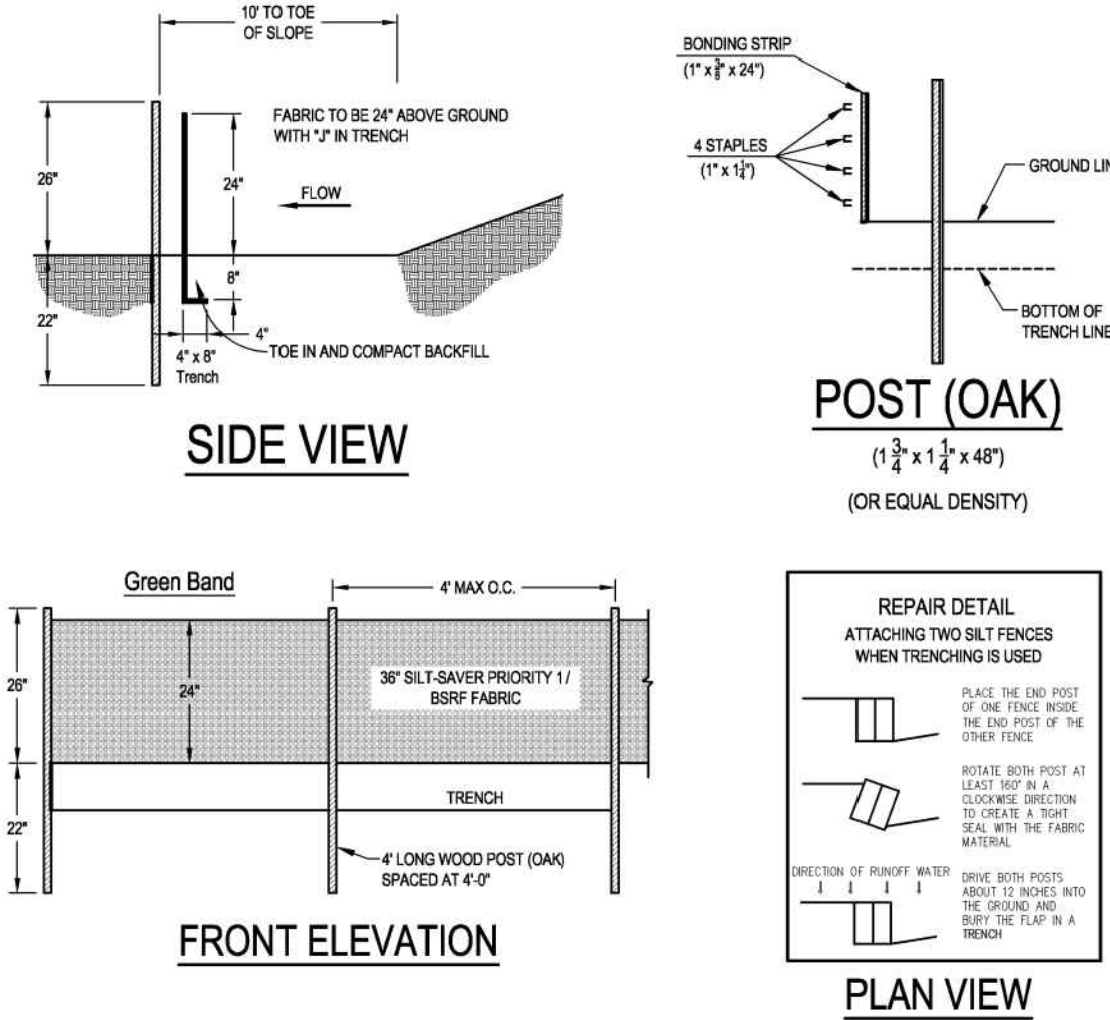


CULVERT SIZING TABLE

DRAINAGE AREA (AC)	PIPE DIAMETER (IN)	PIPE CAPACITY (CFS)
10	15	5
20	18	9
30	21	12
50	24	18
80	27	24
100	30	29
300	36	60
500	42	85

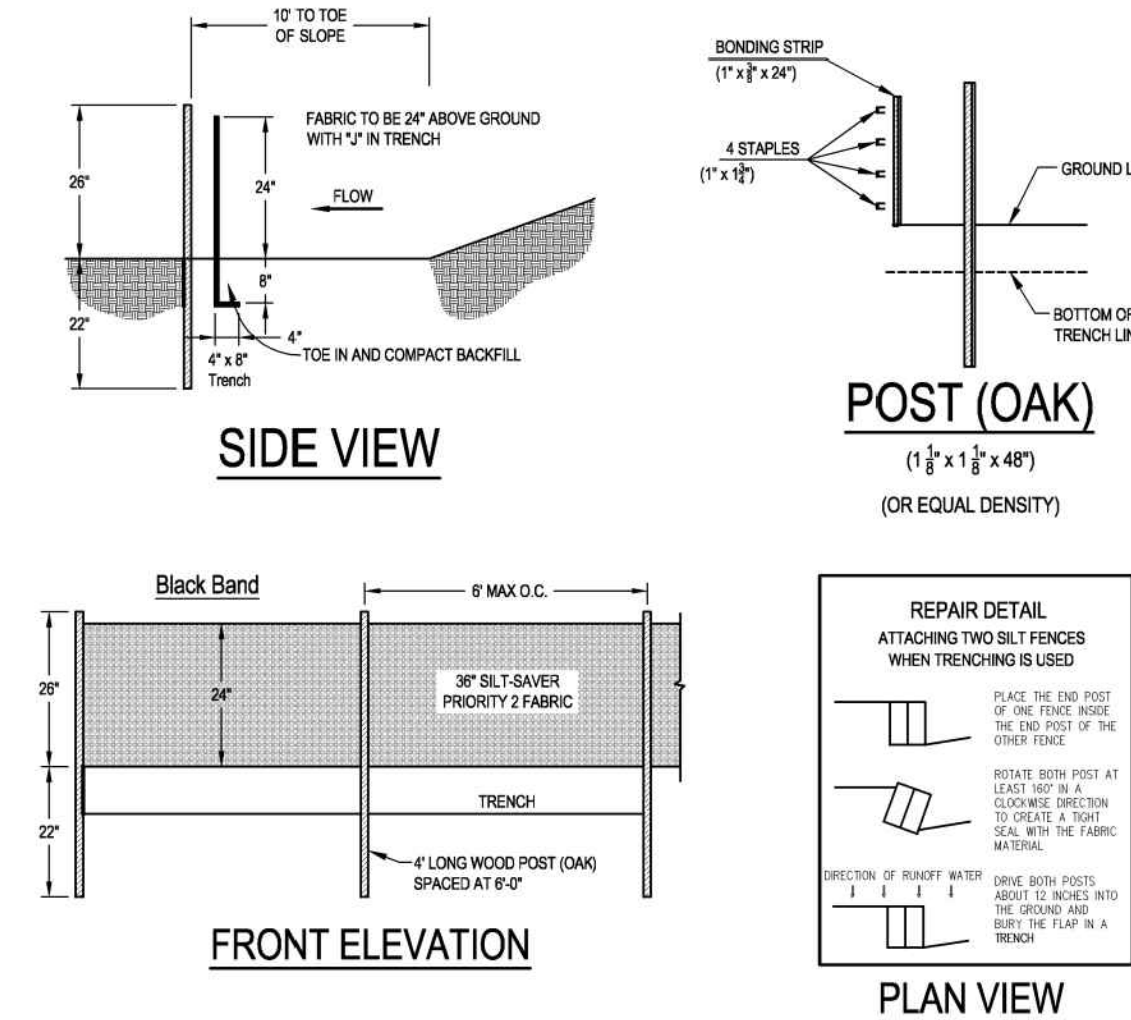
SOURCE: WEST VIRGINIA EROSION AND SEDIMENT CONTROL FIELD MANUAL, MAY 2012

SEDIMENT AND EROSION CONTROL FOR ACCESS ROADS AND DRIVEWAYS
NOT TO SCALE



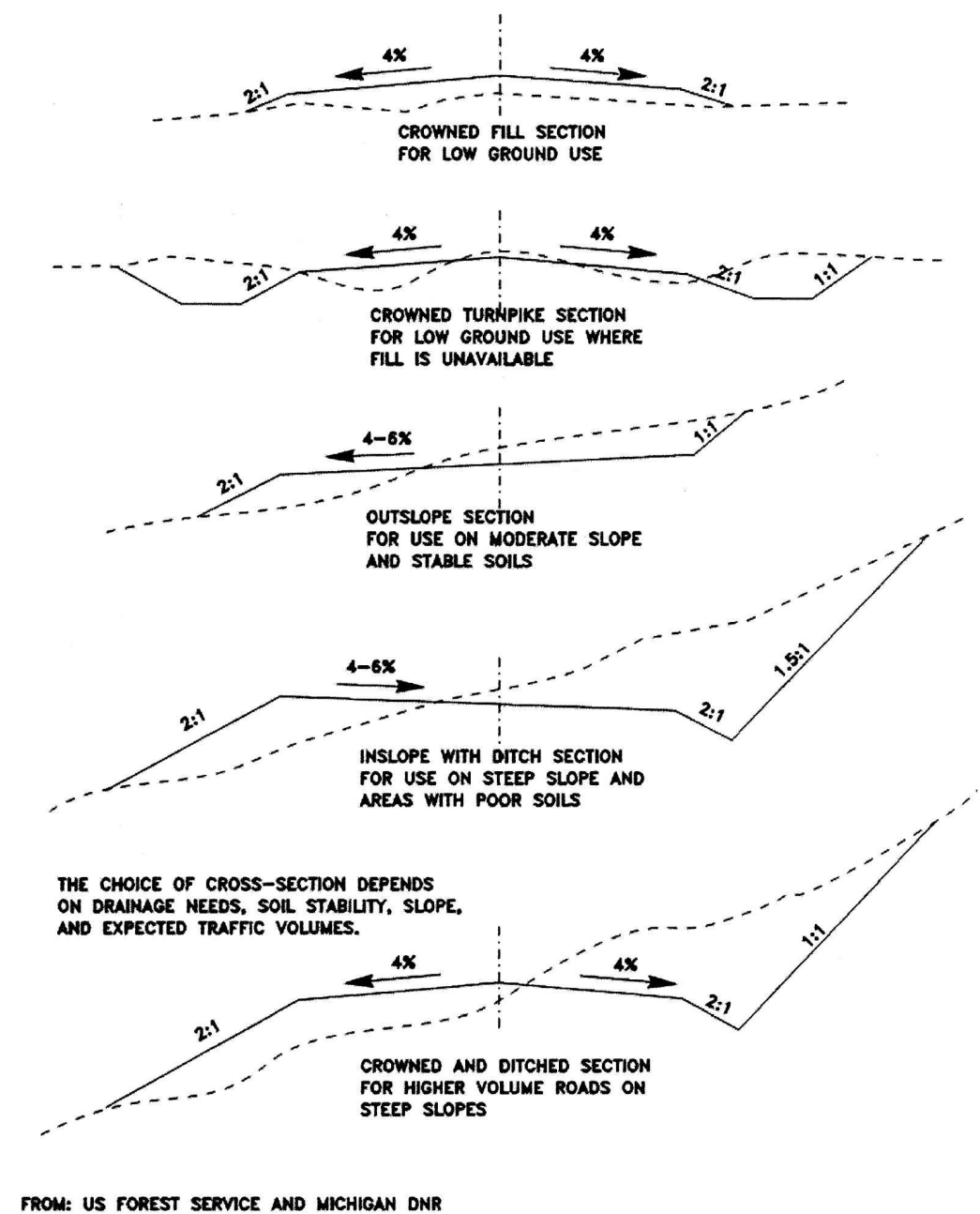
- NOTES:
- PRIORITY 1 - GREEN BAND BELTED SILT RETENTION FENCE SHALL BE INSTALLED UPGRADIENT OF WATERBODIES, WETLANDS, AND OTHER SENSITIVE RESOURCES.
 - USE OF BSRF PRIORITY 1 AND 2 IN OTHER AREAS WILL BE AT THE DISCRETION OF THE OWNER.

BELTED SILT RETENTION FENCE (BSRF) PRIORITY 1 - GREEN BAND
NOT TO SCALE



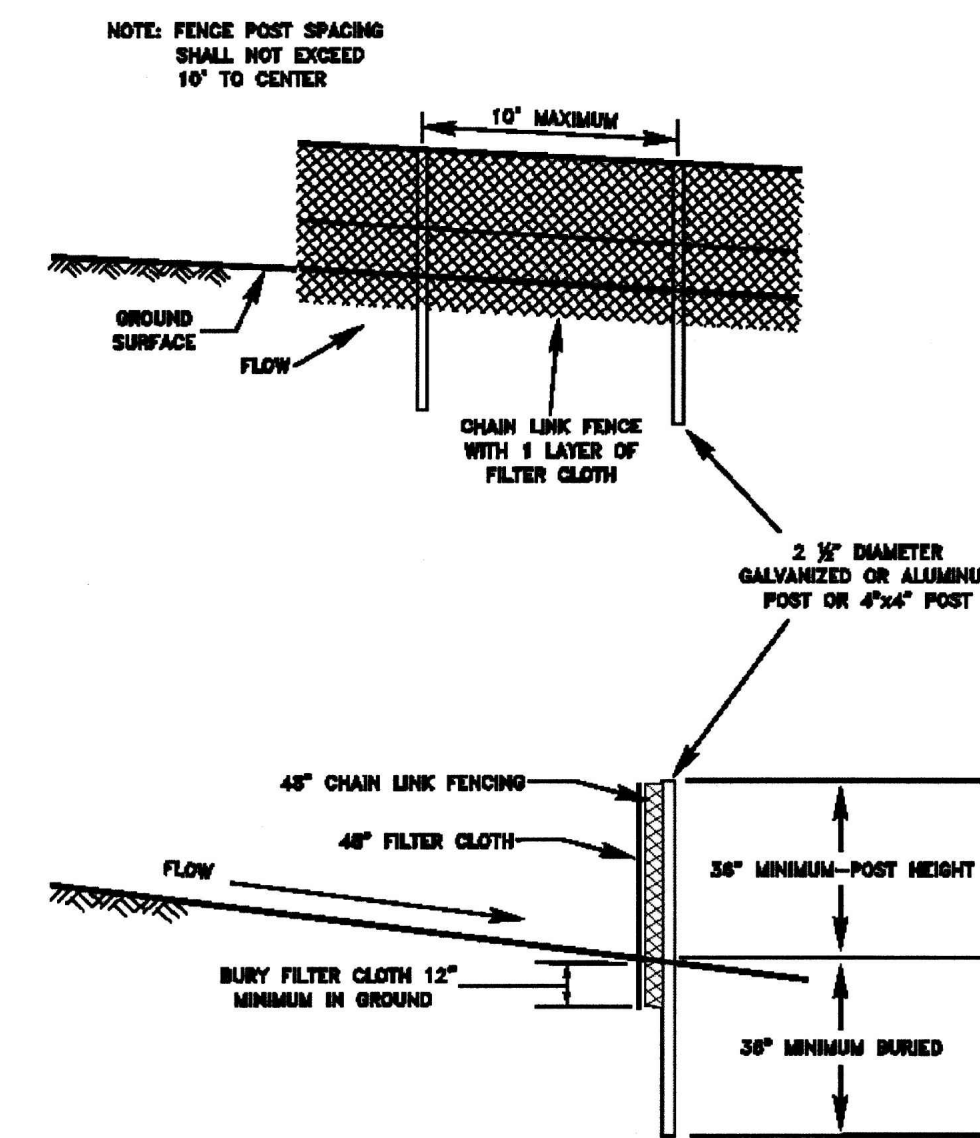
BELTED SILT RETENTION FENCE (BSRF) PRIORITY 2 - BLACK BAND
NOT TO SCALE

FIGURE 3.35.1 TYPES OF ROAD CROSS-SECTIONS



TYPES OF ROAD CROSS-SECTIONS
NOT TO SCALE

FIGURE 3.28.1 SUPER SILT FENCE



NOTE: WHERE SUPER SILT FENCE IS SHOWN ON THE ALIGNMENT SHEETS AN ACCEPTABLE SUBSTITUTE SHALL BE A PYRAMID STACK OF THREE 18 INCH DIAMETER COMPOST FILTER SOCKS, SUBJECT TO THE APPROVAL OF THE E.I.

SUPER SILT FENCE
NOT TO SCALE

GENERAL NOTES AND COMMENTS:

SYM.	DATE	BY	REVISION INFORMATION

PROJECT/TASK	APP.	SEAL

Environmental Resources Management

ERM

DRAWN: JR 03/09/2017

CHECKED: SL 03/09/2017

APP. FOR BID:

APP. FOR CONST.:

SCALE: AS NOTED

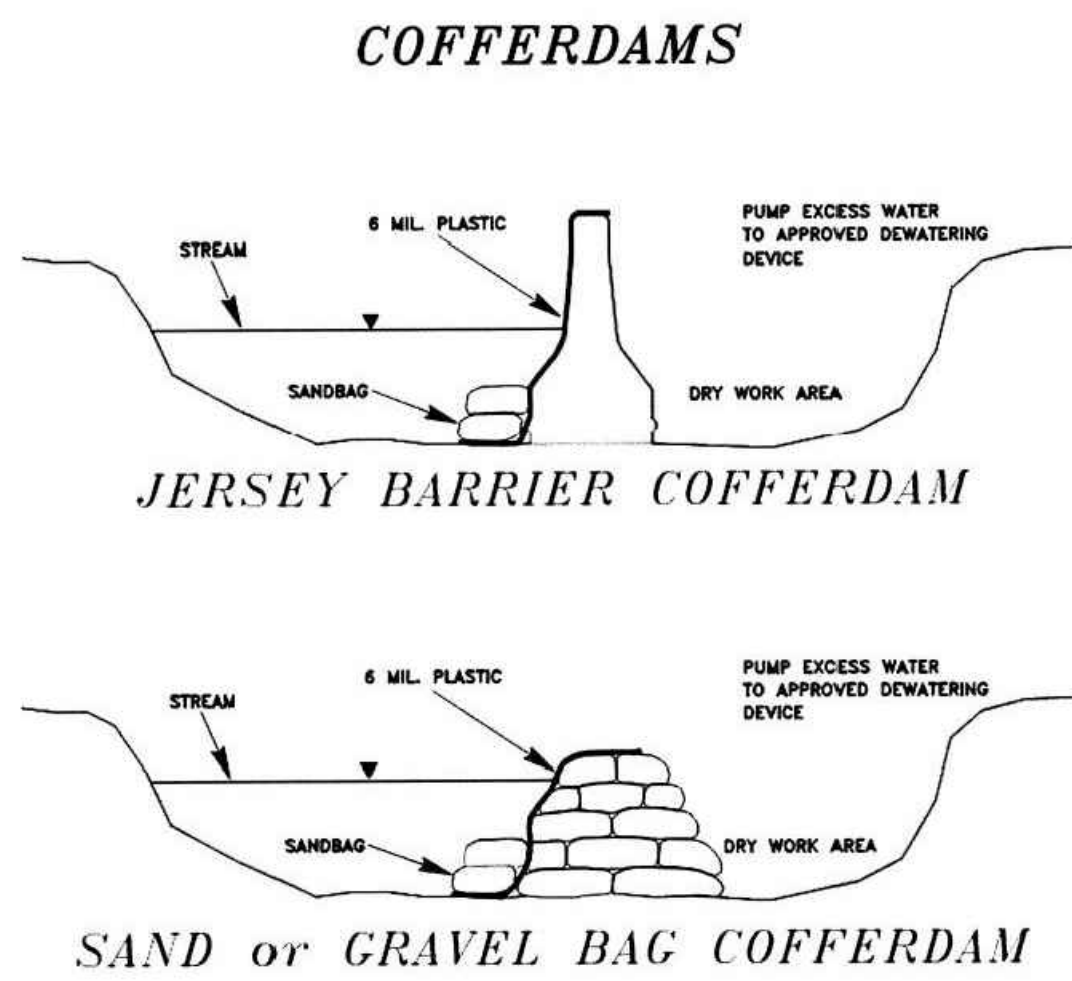
Professional Engineer Seal: Scott A. Robinson, March 10, 2017

Atlantic Coast Pipeline, LLC

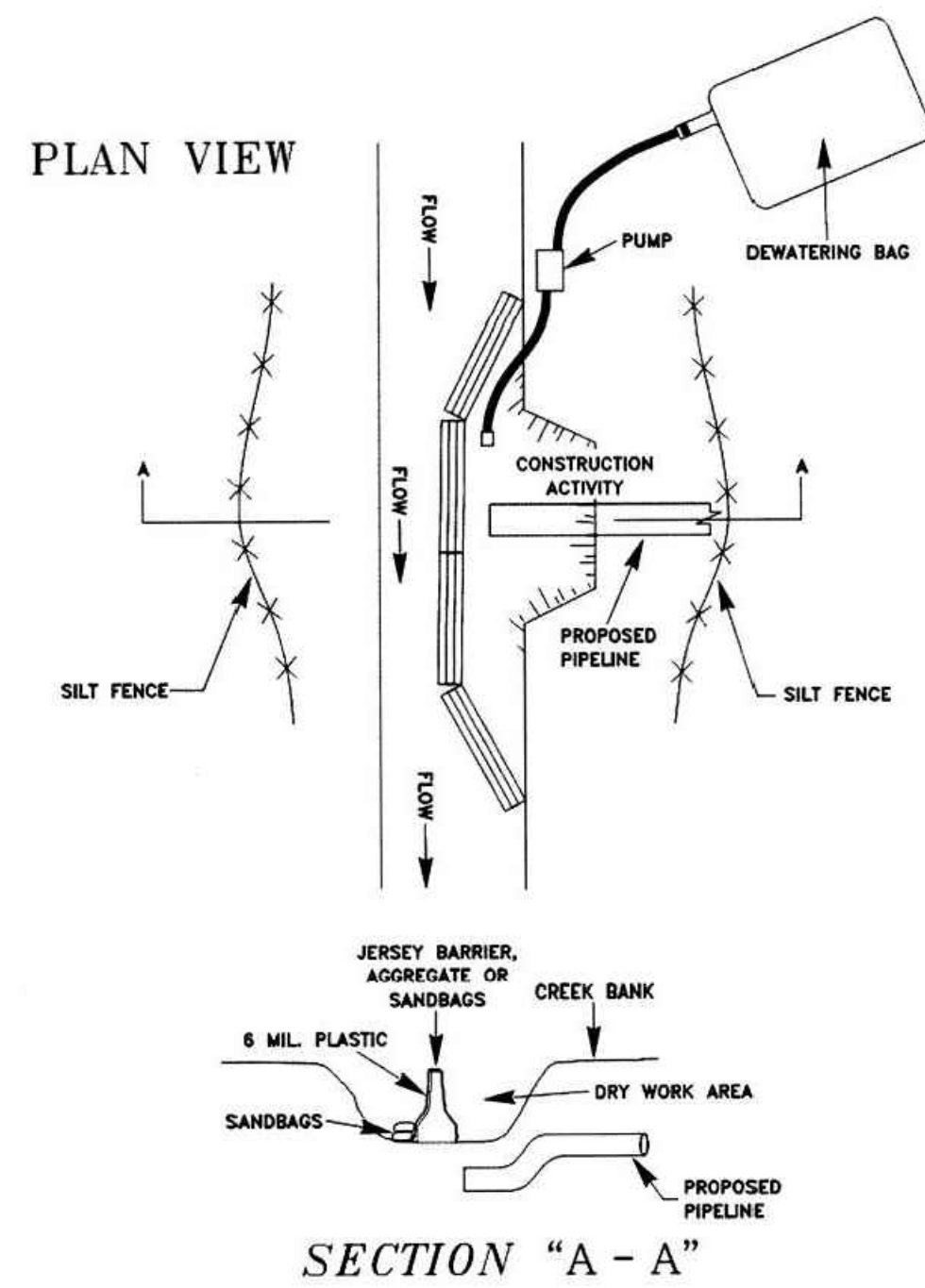
925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000

TITLE: **ATLANTIC COAST PIPELINE EROSION AND SEDIMENT CONTROL DETAILS**

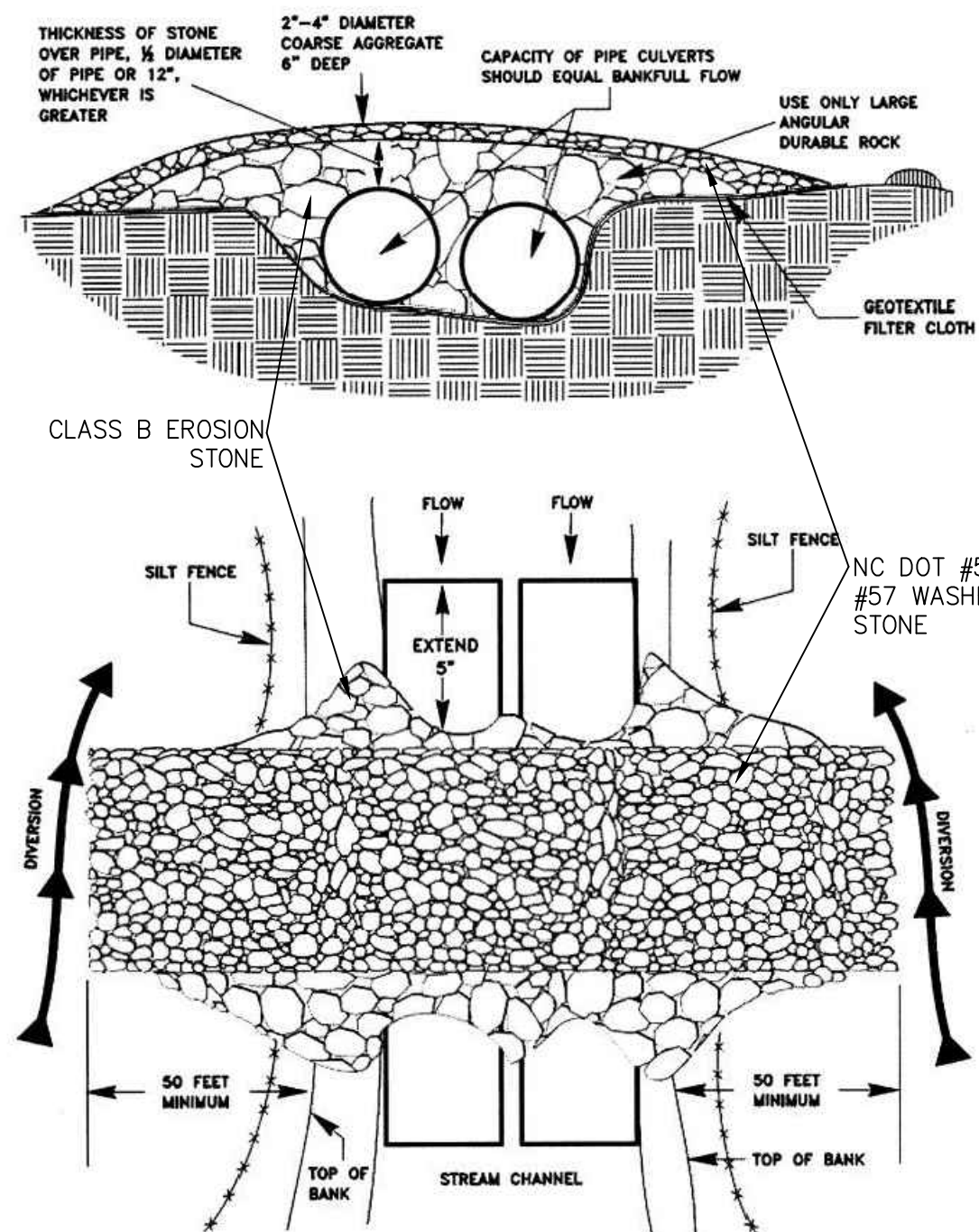
DISTRICT: COUNTY: STATE: NC GROUP: DWG. NO. 2 OF 4 REV. 0



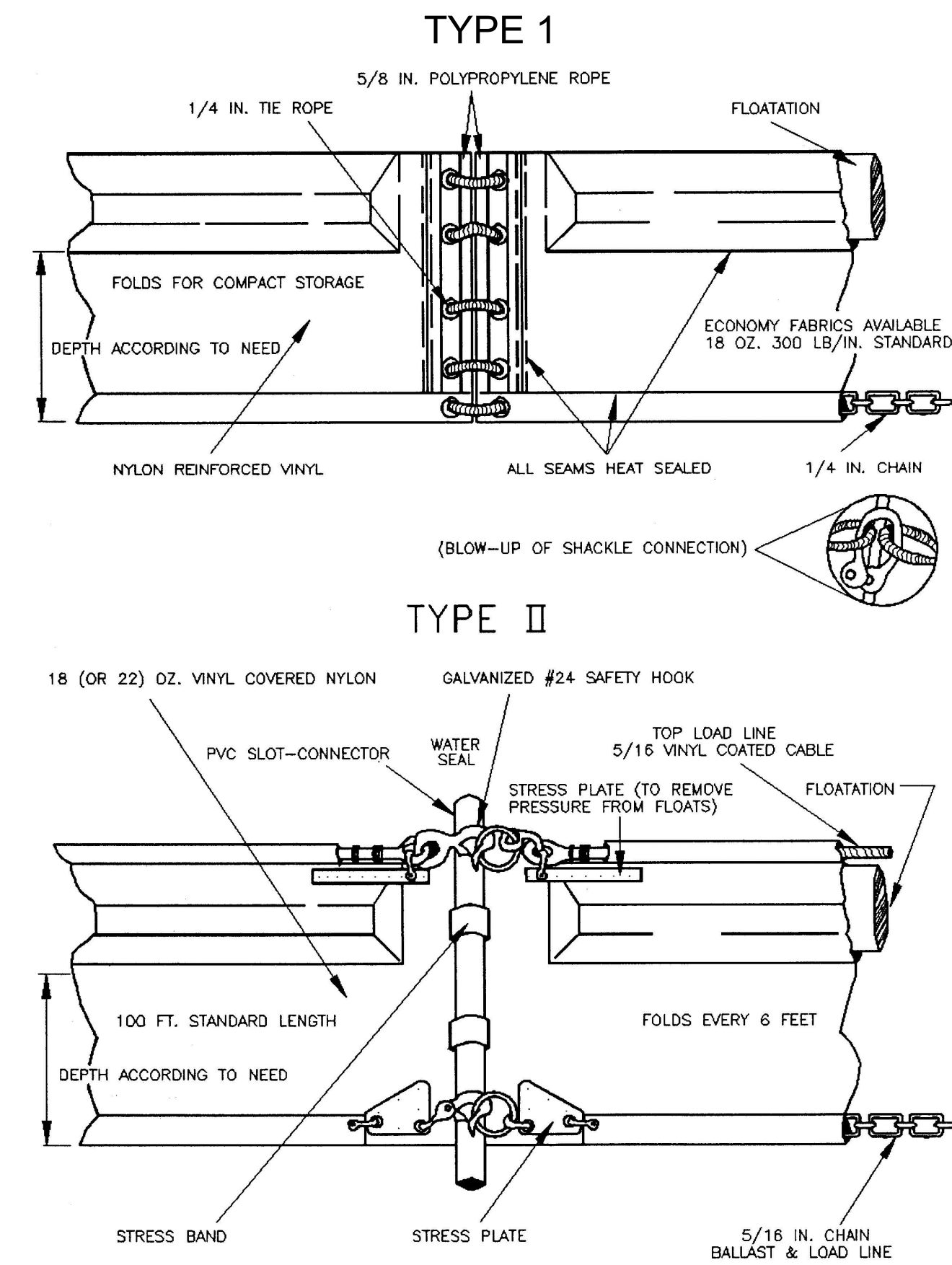
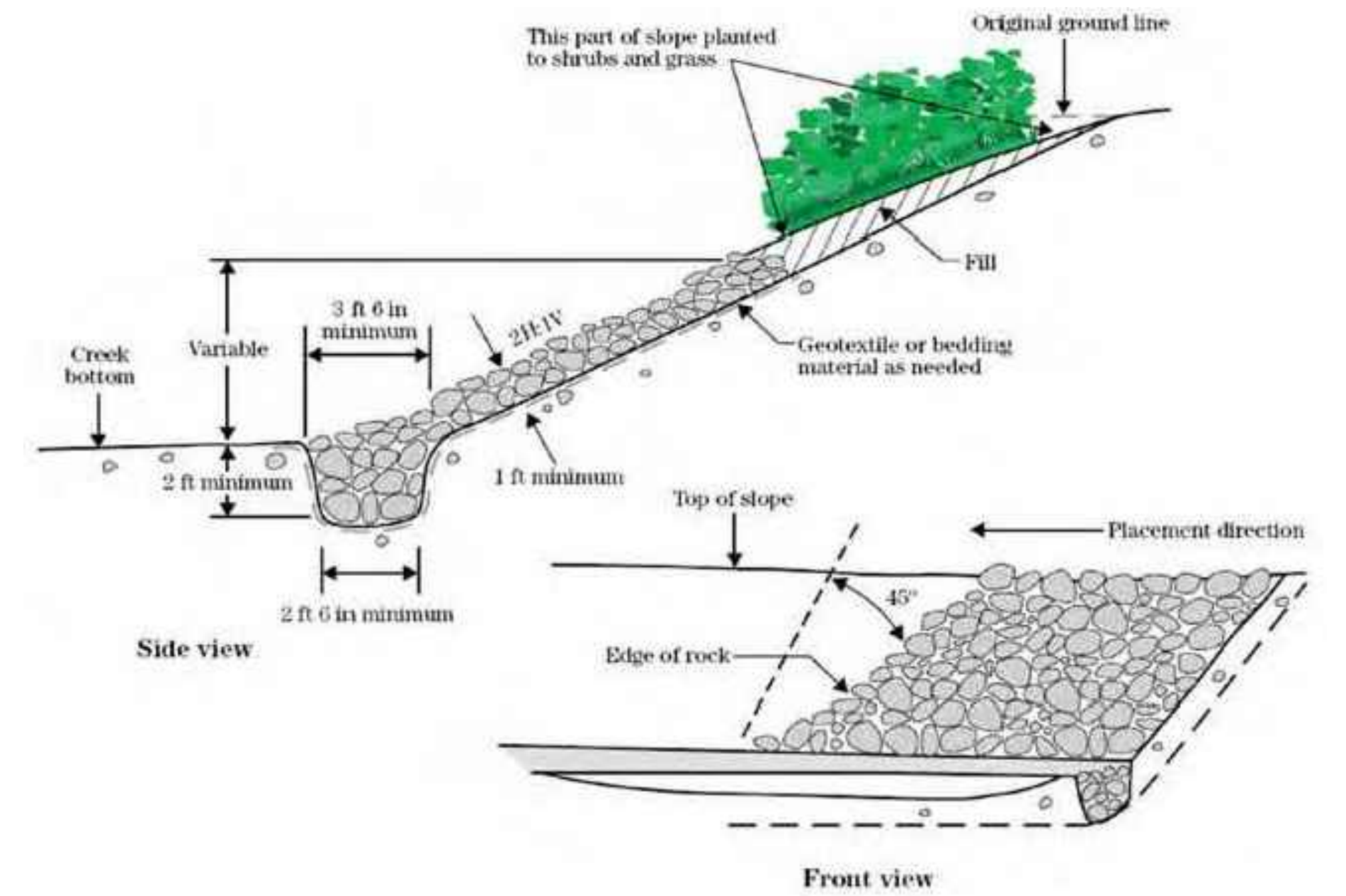
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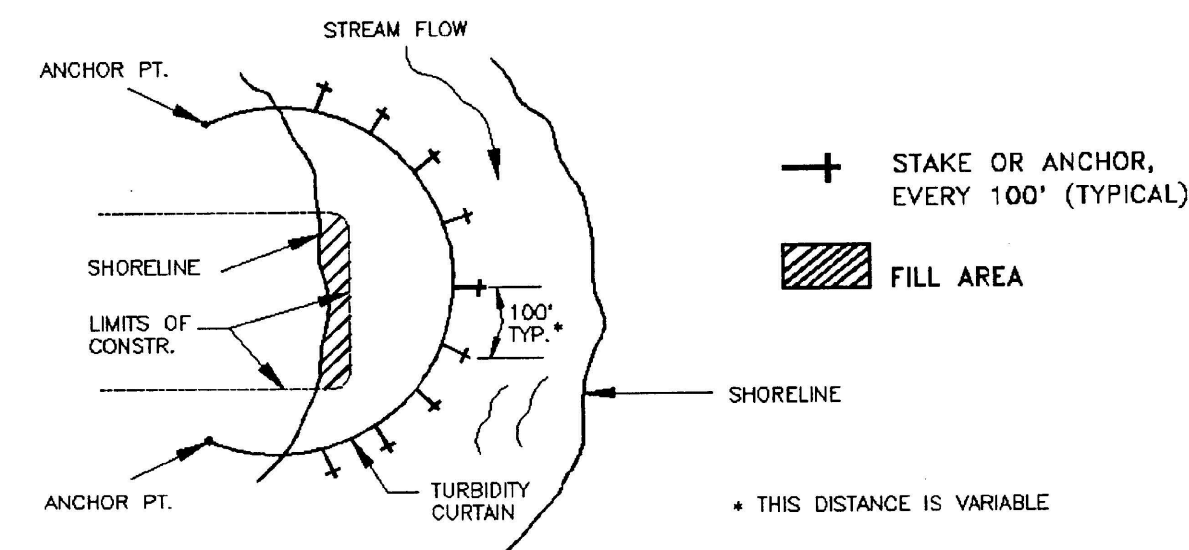
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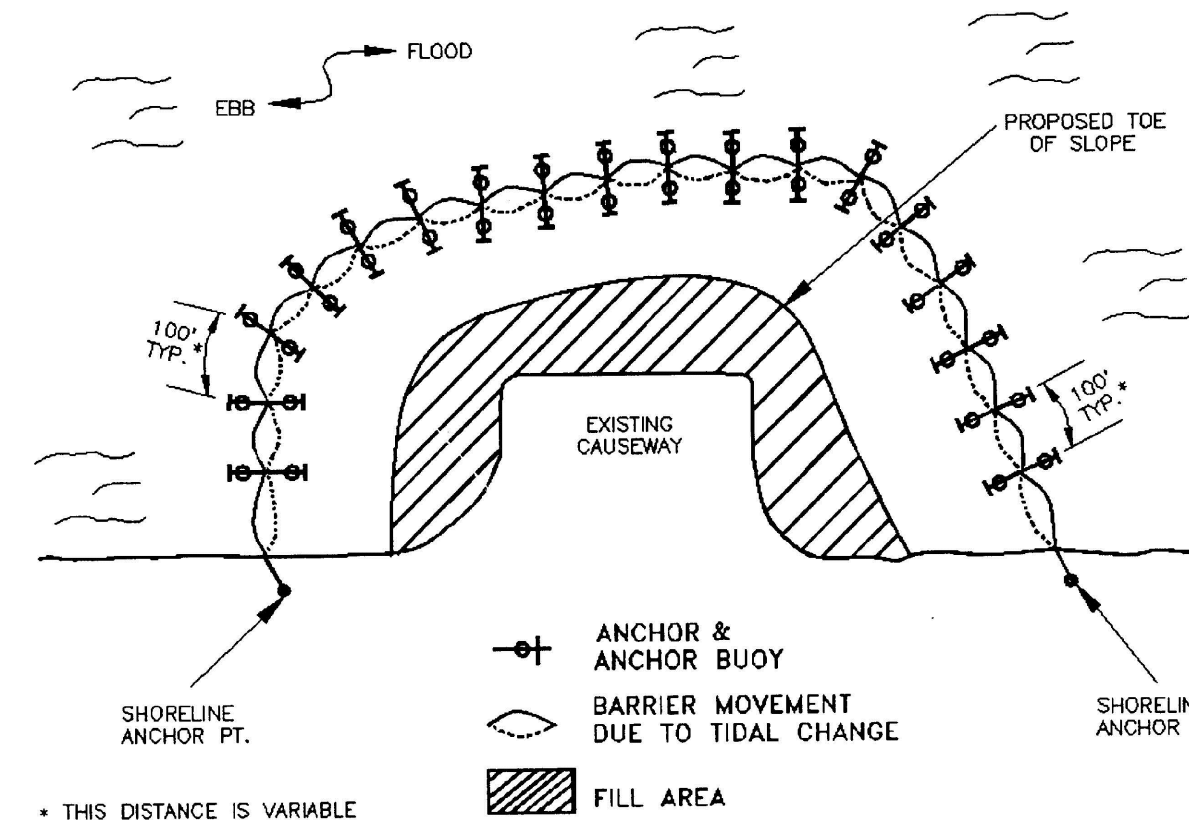
STRUCTURAL STREAMBANK STABILIZATION DETAIL
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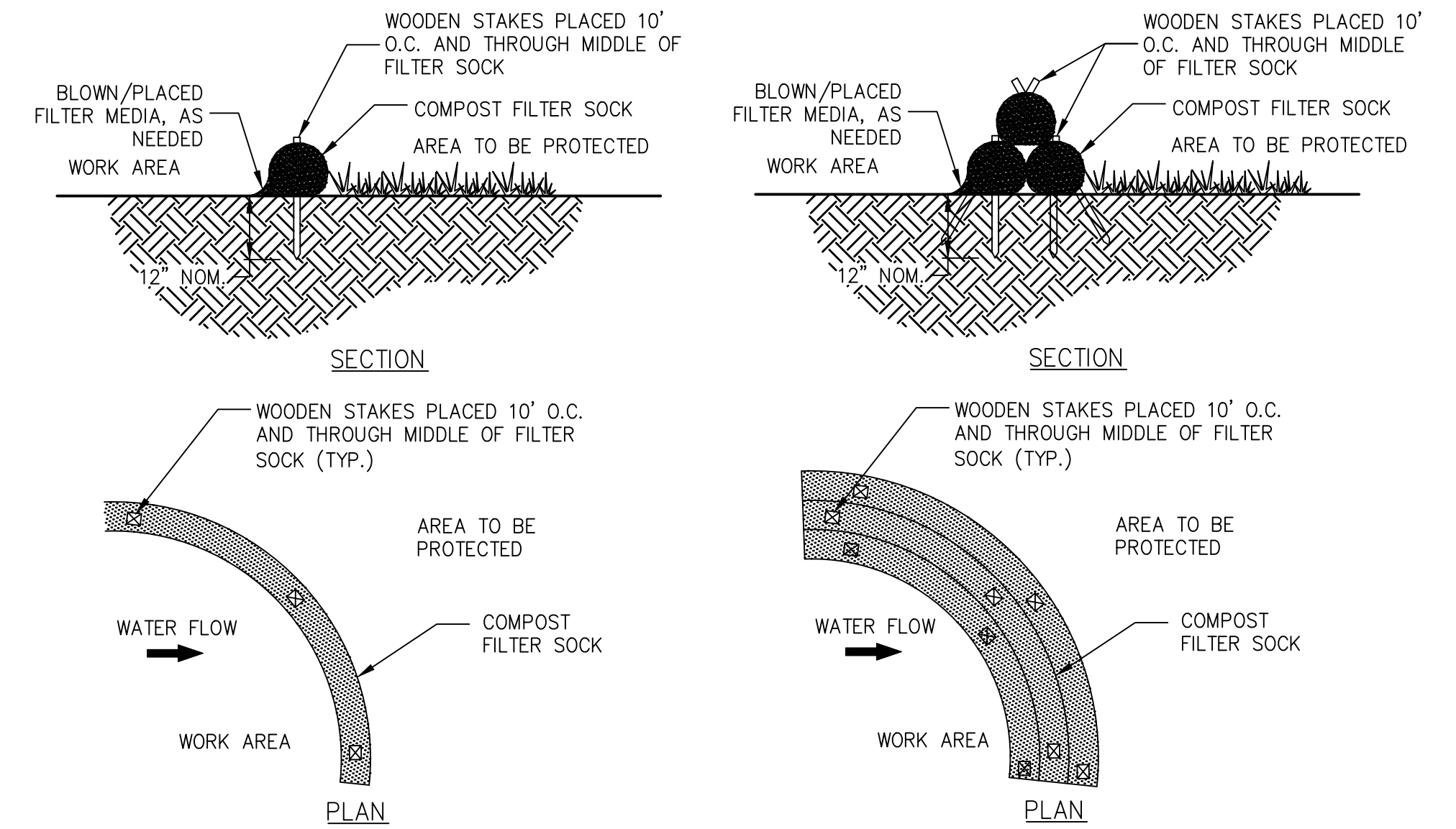
TURBIDITY CURTAIN DETAIL
NOT TO SCALE



TIDAL WATERS AND/OR HEAVY WIND & WAVE ACTION



TURBIDITY CURTAIN DETAIL
NOT TO SCALE

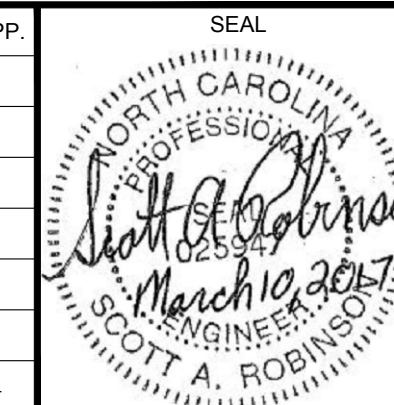


- NOTES:**
1. FILTER SOCK TO BE FILTREXX SEDIMENT CONTROL SILT SOCK OR APPROVED EQUAL. FILTER MEDIA INSIDE AND, AS NECESSARY UP-SLOPE OF FILTER SOCK, TO BE FILTREXX FILTER MEDIA OR APPROVED EQUAL.
 2. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE FILTER SOCK.

COMPOST FILTER SOCK
NOT TO SCALE

GENERAL NOTES AND COMMENTS:

SYM.	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.



ERM Environmental Resources Management

DRAWN: JR 03/09/2017
 CHECKED: SL 03/09/2017
 APP. FOR BID:
 APP. FOR CONST.:
 SCALE: AS NOTED

Atlantic Coast Pipeline, LLC
 925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000

TITLE: **ATLANTIC COAST PIPELINE EROSION AND SEDIMENT CONTROL DETAILS**

DISTRICT: COUNTY: STATE: NC GROUP: DWG. NO. REV. 3 OF 4 0

EROSION AND SEDIMENT CONTROL PLAN NARRATIVE

THE EROSION AND SEDIMENT (E&S) CONTROL MEASURES FOR THE PIPELINE CONSTRUCTION ACTIVITIES PRIMARILY CONSIST OF BUT ARE NOT LIMITED TO COMPOST FILTER SOCK, BELTED SILT RETENTION FENCE, SUPER SILT FENCE, SLOPE BREAKERS, AND TEMPORARY AND PERMANENT SEEDING AND MULCHING. BEST MANAGEMENT PRACTICES (BMP) SPECIFICATIONS FOR THE E&S CONTROL PLAN (E&SCP) ARE TO BE UTILIZED BY THE CONSTRUCTION CONTRACTOR ACCORDING TO THE PROVIDED PLAN.

GENERAL CONSTRUCTION NOTES:

- DISCHARGING SEDIMENT LADEN WATER WHICH WILL CAUSE OR CONTRIBUTE TO THE DEGRADATION OF A BENEFICIAL USE OF A WATER OF THE STATE FROM THE CONSTRUCTION SITE, A DEWATERING SITE, OR SEDIMENT BASIN/TRAP INTO ANY SURFACE WATER WITHOUT FILTRATION OR EQUIVALENT TREATMENT IS PROHIBITED.
- THE DISCHARGER SHALL AMEND THE EROSION & SEDIMENT CONTROL PLAN WHENEVER THERE IS A CHANGE IN THE CONSTRUCTION OR OPERATIONS, WHICH MAY EFFECT THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OR GROUNDWATER.
- DISCHARGES ORIGINATING FROM OFF-SITE SOURCES, WHICH FLOW THROUGH OR ACROSS THE AREAS DISTURBED BY CONSTRUCTION, MAY BE DIVERTED AROUND THE ACTIVE CONSTRUCTION AREA WHENEVER POSSIBLE.
- PERFORM PERMANENT OR TEMPORARY SOIL STABILIZATION WITHIN 7 DAYS WHEN SITE IS AT FINAL GRADE AND ON SITES THAT ARE NOT AT FINAL GRADE, BUT WILL REMAIN DORMANT FOR MORE THAN 14 DAYS.
- DUE TO VARYING SITE CONDITIONS, ADDITIONAL SEDIMENT CONTROL BMPS MAY BE NECESSARY BEYOND THE MEASURES SHOWN ON THE E&S CONTROL PLAN.
- STAGING AREAS, ASSEMBLY AREAS, TEMPORARY EQUIPMENT AND NON-HAZARDOUS MATERIAL STORAGE AREAS SHALL BE LOCATED OUTSIDE 100-YR FLOOD ZONES. HAZARDOUS MATERIAL STORAGE AREAS SHALL BE LOCATED AT LEAST 100 FEET BACK FROM SURFACE WATER BODIES.
- EQUIPMENT STORAGE IN CONSTRUCTION STAGING AREAS SHALL BE LOCATED A MINIMUM OF 100 FEET AWAY FROM WETLAND EDGE.
- AT MINIMUM, ALL BMPS ARE TO BE INSPECTED ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5-INCH PER 24-HOUR PERIOD DURING THE ENTIRE PROJECT. A WRITTEN REPORT MUST ALSO BE COMPLETED, DOCUMENTING EACH INSPECTION AND, IF NECESSARY, ANY REPAIR, REPLACEMENT OR MAINTENANCE ACTIVITY.
- THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING FACILITY SHOWN ON THE DRAWINGS, AND ANY OTHER WHICH IS NOT ON RECORD OR NOT SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL POTHOLE EXISTING UTILITIES AT THE POINTS OF CONNECTION AND ALL UTILITY CROSSINGS TO DETERMINE EXACT LOCATIONS PRIOR TO THE START OF WORK. ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND EXISTING CONDITIONS SHALL BE REPORTED TO THE ENGINEER OF RECORD IMMEDIATELY.
- ALL WORK WITHIN A PUBLIC RIGHT-OF-WAY SHALL BE COORDINATED WITH THE AGENCY HAVING JURISDICTION.
- ALL REQUIRED PERMITS MUST BE OBTAINED PRIOR TO STARTING WORK.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION, STABILIZATION AND MAINTENANCE OF ALL EXISTING AND PROPOSED SITE EROSION & SEDIMENTATION CONTROL DEVICES AND FACILITIES.
- THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING EROSION & SEDIMENTATION DEVICES AND SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE ENGINEER OF RECORD HARMLESS OF ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF ENGINEER OF RECORD.
- AS SITE SPECIFIC CONDITIONS MAY WARRANT, THE E&SCP PLAN MAY REQUIRE MINOR MODIFICATIONS TO ENSURE PROPER PROTECTION OF RECEIVING WATERS. THE RESPECTIVE PROJECT ENVIRONMENTAL INSPECTOR (EI) WILL IDENTIFY SITE SPECIFIC AREAS WHERE A CERTAIN BMP MODIFICATION(S) IS NECESSARY TO EITHER OMIT OR ENHANCE BMPS IN SUCH AREAS. THIS PROCESS ENTAILS THE EI TO IDENTIFY LOCATIONS WHERE BMPS WILL NEED TO BE ALTERED, SUBSTITUTED OR OMITTED AND CONTACT THE DOMINION GAS COMPLIANCE SPECIALIST TO REVIEW PROPOSED CHANGES. UPON REVIEW AND APPROVAL BY THE DOMINION COMPLIANCE SPECIALIST, THE EI WILL REDLINE, DATE, AND SIGN THE E&SCP DRAWING(S) DEPICTING THE REDLINE CHANGE(S). ONCE THIS PROCESS IS COMPLETED, THE EI WILL NOTIFY NCDEQ OF SUCH MINOR MODIFICATION REDLINE AMENDMENTS AS REQUIRED BY THE GENERAL PERMIT.

BMP INSTALLATION AND REMOVAL SEQUENCE

CONSTRUCTION MUST BE IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. THIS SEQUENCE IS DESIGNED TO MINIMIZE SOIL EROSION AND SEDIMENTATION. THE CONTRACTOR MAY DEVIATE SLIGHTLY FROM THE STAGING OF PERMANENT SITE IMPROVEMENTS, BUT NO DEVIATION FROM THE RELATIVE ORDER OF EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE ALLOWED.

THE STAGING OF EARTHMOVING ACTIVITIES FOR THIS PROJECT IS A GENERAL DESCRIPTION OF THE WORK REQUIRED. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH COMPANY STANDARDS, THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY REGULATIONS AND ALL OTHER APPLICABLE FEDERAL, STATE OR LOCAL REQUIREMENTS.

THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN INCLUDING THE SOIL EROSION CONTROL DRAWINGS AND NARRATIVE SHALL BE AVAILABLE ON SITE AT ALL TIMES DURING EARTH DISTURBANCE.

- STAKE AND/OR FLAG ALL LIMITS OF DISTURBANCE FOR CONSTRUCTION ACTIVITIES, CLEARLY IDENTIFYING WETLAND AND STREAM EDGES. INSTALL SIGNS TO DESIGNATE THE AREA TO IDENTIFY IMPORTANT PROJECT ATTRIBUTES SUCH AS WETLAND/STREAM BOUNDS, EXCLUSION AREAS ETC.
- INSTALL ROCK CONSTRUCTION ENTRANCES IMMEDIATELY BEFORE INITIAL DISTURBANCES. THE ROCK CONSTRUCTION ENTRANCES TO BE UNDERLAIN BY FILTER FABRIC. ALL CONSTRUCTION TRAFFIC SHOULD USE ONLY ROCK CONSTRUCTION ENTRANCE FOR INGRESS AND EGRESS. ALL MUD OR SEDIMENT TRACKED ONTO THE EXISTING ROADWAY SHALL BE REMOVED BY THE CONTRACTOR AS NECESSARY.
- INSTALL SILT FENCE AND COMPOST FILTER SOCKS AS NECESSARY ALONG THE ACCESS ROADS TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING DOWNSTREAM WATER BODIES. MAINTAIN THE ACCESS ROADS AS REQUIRED, ASSOCIATED DITCHES, AND NECESSARY OUTLET PROTECTION.
- PRIOR TO AND SIMULTANEOUS WITH GRADING AND EXCAVATION, INSTALL REMAINING EROSION CONTROL DEVICES (ECD) SHOWN ON THE PLANS.
- COMMENCE GRADING AND ASSOCIATED CUT AND FILL SLOPES. THE EARTH MOVING ACTIVITY SHALL BEGIN IN AREA OF CUT SO THAT THE CUTS CAN BE PLACED IN AREAS OF FILL. REMOVE TOPSOIL FROM AREAS TO RECEIVE FILL PRIOR TO FILLING.
- FINALIZE UTILITY INSTALLATION AND ROADWAY GRADES AND PLACE TOPSOIL ON THE CUT AND FILL AREAS. STABILIZE CUT AND FILL SLOPES, AFTER PLACEMENT OF STOCKPILED TOPSOIL ON EXCAVATED SLOPES, AND AS DIRECTED.
- RE-DISTRIBUTION OF WET SEDIMENT FROM DEVICES AND FACILITIES SHALL ONLY BE PERMITTED UPHILL OF AN EFFECTIVE SEDIMENT CONTROL DEVICE OR FACILITY. SEDIMENT LADEN RUNOFF SHALL NOT BE ALLOWED TO FLOW DIRECTLY INTO WATER BODIES.
- ANY EXPOSED TOPSOIL PILES SHOULD BE STABILIZED & SEEDED PER THE PERMIT REGULATIONS, AND BY TABLES SHOWN ON THE APPROVED EROSION CONTROL PLANS AND MULCHED WITH STRAW AS SPECIFIED BY THE PROJECT OWNER.
- UPON MINIMUM 70% UNIFORM PERENNIAL VEGETATIVE GROWTH, REMOVE TEMPORARY SEDIMENT CONTROLS. REMOVE ACCUMULATED SEDIMENTS WITHIN THE TRAPS, RE-GRADE TRAPS TO FINAL CONTOURS. STABILIZE SITE PER THE PLANS.

SEQUENCE OF CONSTRUCTION

- A PRE-CONSTRUCTION MEETING SHOULD TAKE PLACE PRIOR TO START OF CONSTRUCTION ACTIVITIES.
- BEGIN CLEARING AND GRUBBING SITE. CLEAR AND GRUB ONLY THOSE AREAS NECESSARY FOR INSTALLATION OF THE EROSION CONTROL MEASURES.
- INSTALL SILT FENCE AS SHOWN ON THE PLANS.
- ONCE EROSION CONTROL MEASURES HAVE BEEN INSTALLED AND PRIOR TO SEDIMENT REMOVAL ACTIVITIES, THE SITE IS TO BE INSPECTED BY NC DENR - LAND QUALITY.
- GRADE SITE ACCORDING TO CONTRACT DOCUMENTS. MAINTAIN EROSION CONTROL DEVICES AS NEEDED.
- INSTALL STORM DRAINAGE AS INDICATED ON PLANS.
- GRASS OR OTHERWISE STABILIZE ALL AREAS AS THEY ARE BROUGHT TO FINAL GRADES.
- THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. INSPECT AND REPAIR MEASURES AFTER EACH RAINFALL AND AS NEEDED THROUGHOUT THE PROJECT.
- CONTRACTOR TO LEAVE ALL EROSION CONTROL DEVICES IN PLACE AT THE CONCLUSION OF THIS CONTRACT. CONTRACTOR IS TO CLEAN-OUT, REPAIR AND GRASS STABILIZE ALL DENUDEED AREAS. ALL AREAS WILL BE RETURNED TO THE STATE OF EXISTING CONDITIONS PRIOR TO CONTRACT AS A MINIMUM.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTAIN SEDIMENT ONSITE. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE ENGINEER.
- ALL EROSION CONTROL MEASURES TO BE IN ACCORDANCE WITH THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN REQUIREMENTS AND LAND DEVELOPMENT STANDARDS.

MAINTENANCE SCHEDULE

AFTER FULL REVEGETATION HAS BEEN ACHIEVED, ALL BMPS WILL BE REMOVED AND ANY LAND DISTURBED BY REMOVAL WILL BE PERMANENTLY STABILIZED, UNLESS OTHERWISE SPECIFIED, ALL MAINTENANCE MUST BE COMPLETED IMMEDIATELY AFTER AN INSPECTION IDENTIFIES THAT A BMP IS NOT FUNCTIONING AS REQUIRED.

- THE ROW AND ESC DEVICES WILL BE INSPECTED DAILY AT THE ACTIVE CONSTRUCTION SITE AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS FOR ACTIVELY DISTURBED AREAS, 14 CALENDAR DAYS FOR RESTORED AREAS, AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN ONE-HALF-INCH PER 24-HOUR PERIOD.
- SEDIMENT MUST BE REMOVED WHERE ACCUMULATION REACHES ONE-HALF THE ABOVE GROUND HEIGHT OF THE CONTROL MEASURE.
- EROSION CONTROL MEASURES, WHICH HAVE BEEN UNDERMINED OR TOPPED, SHALL BE REPAIRED IMMEDIATELY.
- OTHER REQUIRED REPAIRS OR MAINTENANCE SHALL BE MADE IMMEDIATELY.
- TEMPORARY AND PERMANENT E&S CONTROL BMPS SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.

MATERIAL WASTE HANDLING AND RECYCLING

- SOLID WASTE DISPOSAL SHALL BE HANDLED THROUGH ONE OF THE LOCAL LICENSED WASTE MANAGEMENT PROVIDERS AND PERMITTED DISPOSAL FACILITIES. THE CONTRACTOR WILL PROVIDE MOBILE AND COVERED WASTE RECEPTACLES AS NEEDED ALONG THE PROJECT LIMITS. CONTRACTOR SHALL ALSO PROVIDE A COVERED JUMPSTER FOR CONSOLIDATION OF WASTE FOR PICK UP AND DISPOSAL FOR THE DURATION OF THE PROJECT. ALL SOLID WASTE SHALL BE DISPOSED OF AT A LICENSED PERMITTED MUNICIPAL LANDFILL.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY PERMITS AND DOR DISPOSAL FEES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO ASSURE THAT ALL MATERIALS AREA HANDLED AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS, RULES, AND REGULATIONS, INCLUDING BUT NOT LIMITED TO THOSE ISSUED BY THE ENVIRONMENTAL PROTECTION AGENCY, NCDEQ, AND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.
- CONTRACTOR SHALL PRACTICE GOOD HOUSEKEEPING FOR THE DURATION OF THE PROJECT INCLUDING THE ROUTINE REMOVAL AND DISPOSAL OF SOLID WASTE.
- CONTRACTOR SHALL KEEP RECORDS OF PROPER SOLID WASTE DISPOSAL AND PROVIDE COPIES TO THE EI.

SEEDING AND MULCHING

SEE SEED MIXES, SOIL AMENDMENTS, AND MULCH SPECIFICATIONS SPECIFIED IN THE ACP RESTORATION AND REHABILITATION PLAN.

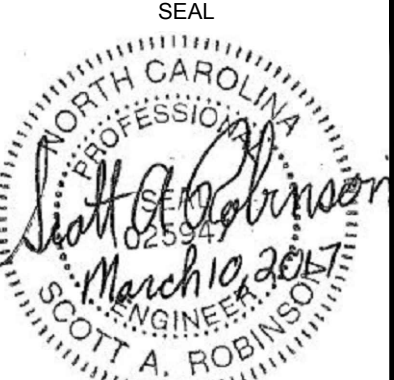

- SEEDBED PREPARATION: AREAS TO BE SEEDED SHALL BE DISKED TO A DEPTH OF 4-IN TO 6-IN WHENEVER FEASIBLE, AND SMOOTHLY GRADED.
- IN TOPSOILED AREAS, SOIL TO BE REDISTRIBUTED EVENLY AND STABILIZED PRIOR TO SEEDING.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 21 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS PERMANENTLY CEASED.
- WHERE THE INITIATION OF STABILIZATION MEASURES WITHIN 7 DAYS AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS CONDITIONS ALLOW.
- WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 21 DAYS FROM WHEN ACTIVITIES CEASED (E.G., THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY HALTED IS LESS THAN 21 DAYS), THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED.
- AREAS WHERE THE SEED HAS FAILED TO GERMINATE ADEQUATELY (UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70%) WITHIN 30 DAYS, SEEDING AND MULCHING MUST BE RE-SEEDED IMMEDIATELY, OR AS SOON AS WEATHER PERMITS.

POLLUTANT CONTROLS

- REPORTABLE SPILLS OCCURRING DURING CONSTRUCTION, OPERATION AND MAINTENANCE ARE TO BE REPORTED IMMEDIATELY TO THE MONITORING CENTER AT 1-800-835-7191. DOMINION'S ENVIRONMENTAL HEALTH AND SAFETY DEPARTMENT WILL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE AGENCIES, EXCEPT AS PROVIDED FOR BELOW.
- ANY FACILITY OWNER/OPERATOR WHO IS SUBJECT TO THE SPCC RULE MUST COMPLY WITH THE REPORTING REQUIREMENTS FOUND IN 40 CFR 112.4. A DISCHARGE MUST BE REPORTED TO THE EPA REGIONAL ADMINISTRATOR (RA) WHEN THERE IS A DISCHARGE OF:
 - MORE THAN 1,000 GALLONS OF OIL IN A SINGLE DISCHARGE TO NAVIGABLE WATERS OR ADJOINING SHORELINES.
 - MORE THAN 42 GALLONS OF OIL IN EACH OF TWO DISCHARGES TO NAVIGABLE WATERS OR ADJOINING SHORELINES OCCURRING WITHIN ANY TWELVE-MONTH PERIOD.
- IF A DOMINION REPRESENTATIVE CANNOT BE PROMPTLY CONTACTED AND THE SPILL HAS IMPACTED WATER, THE PERSON DISCOVERING THE SPILL OR RELEASE WILL CONTACT THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 AND REPORT THE RELEASE. THAT PERSON WILL CONTINUE CALLING DOMINION UNTIL A REPRESENTATIVE IS REACHED.

STABILIZATION TIMEFRAMES

PERIMETER DIKES, SWALES, DITCHES, SLOPES	7 DAYS
HIGH QUALITY WATER (HQW) ZONES	7 DAYS
SLOPES STEEPER THAN 3:1	7 DAYS
SLOPES 3:1 OR FLATTER	14 DAYS
ALL OTHER AREAS (Slopes flatter than 4:1)	14 DAYS

GENERAL NOTES AND COMMENTS: 	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:5%;">SYM.</th> <th style="width:5%;">DATE</th> <th style="width:5%;">BY</th> <th style="width:5%;">REVISION INFORMATION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	SYM.	DATE	BY	REVISION INFORMATION																									<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:15%;">PROJECT/TASK</th> <th style="width:15%;">APP.</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	PROJECT/TASK	APP.																			<h2 style="margin:0;">Atlantic Coast Pipeline, LLC</h2> <p style="margin:0;">925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000</p>
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ATLANTIC COAST PIPELINE PROJECT

COMMUNICATION TOWER (TYPICAL)

SITE PLAN

EROSION & SEDIMENT CONTROL PLAN

EROSION & SEDIMENT CONTROL PLAN NARRATIVE

THE FOLLOWING EROSION AND SEDIMENT CONTROL PLAN SHALL PROVIDE A TYPICAL STANDARD FOR BEST MANAGEMENT PRACTICES FOR THE ATLANTIC COAST PIPELINE COMMUNICATION TOWER SITES. THE COMMUNICATION TOWER SITE LAYOUT MAY NOT HAVE ALL EQUIPMENT AND COMPONENTS DEPICTED, BUT THE SITE FOOTPRINT SHALL BE CONSISTENT. COLLECTIVELY, THERE ARE 3 SITES IN WEST VIRGINIA, 19 SITES IN VIRGINIA, AND 10 SITES IN NORTH CAROLINA. THE EROSION AND SEDIMENT (E&S) CONTROL MEASURES FOR THE COMMUNICATION TOWER CONSTRUCTION ACTIVITIES PRIMARILY CONSIST OF BUT ARE NOT LIMITED TO ROCK CONSTRUCTION ENTRANCE, COMPOST FILTER SOCK, SILT FENCE, AND TEMPORARY AND PERMANENT SEEDING AND MULCHING. BEST MANAGEMENT PRACTICES (BMP) SPECIFICATIONS FOR THE E&S CONTROL PLAN (E&SCP) ARE TO BE UTILIZED BY THE CONSTRUCTION CONTRACTOR ACCORDING TO THE PROVIDED PLAN.

GENERAL CONSTRUCTION NOTES:

- DISCHARGES ORIGINATING FROM OFF-SITE SOURCES, WHICH FLOW THROUGH OR ACROSS THE AREAS DISTURBED BY CONSTRUCTION, MAY BE DIVERTED AROUND THE ACTIVE CONSTRUCTION AREA WHENEVER POSSIBLE.
- PERFORM PERMANENT OR TEMPORARY SOIL STABILIZATION WITHIN 7 DAYS WHEN SITE IS AT FINAL GRADE AND ON SITES THAT ARE NOT AT FINAL GRADE, BUT WILL REMAIN DORMANT FOR MORE THAN 14 DAYS.
- DUE TO VARYING SITE CONDITIONS, ADDITIONAL SEDIMENT CONTROL BMPs MAY BE NECESSARY BEYOND THE MEASURES SHOWN ON THE E&S CONTROL PLAN.
- AT MINIMUM, ALL BMPs ARE TO BE INSPECTED ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5-INCH PER 24-HOUR PERIOD DURING THE ENTIRE PROJECT. ALL REQUIRED PERMITS MUST BE OBTAINED PRIOR TO STARTING WORK.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION, STABILIZATION AND MAINTENANCE OF ALL EXISTING AND PROPOSED SITE EROSION & SEDIMENTATION CONTROL DEVICES AND FACILITIES.
- AS SITE SPECIFIC CONDITIONS MAY WARRANT, THE E&S PLAN MAY REQUIRE MINOR MODIFICATIONS TO ENSURE PROPER PROTECTION OF RECEIVING WATERS. THE RESPECTIVE PROJECT ENVIRONMENTAL INSPECTOR (EI) WILL IDENTIFY SITE SPECIFIC AREAS WHERE A CERTAIN BMP MODIFICATION(S) IS NECESSARY TO EITHER OMIT OR ENHANCE BMPs IN SUCH AREAS. THIS PROCESS ENTAILS THE EI TO IDENTIFY LOCATIONS WHERE BMPs WILL NEED TO BE ALTERED, SUBSTITUTED OR OMITTED AND CONTACT THE DOMINION COMPLIANCE SPECIALIST TO REVIEW PROPOSED CHANGES. UPON REVIEW AND APPROVAL BY THE DOMINION COMPLIANCE SPECIALIST, THE EI WILL REDLINE, DATE, AND SIGN THE E&SCP DRAWING(S) DEPICTING THE REDLINE CHANGE(S). ONCE THIS PROCESS IS COMPLETED, THE EI WILL NOTIFY THE DEP OF SUCH MINOR MODIFICATION REDLINE AMENDMENTS AS REQUIRED BY THE GENERAL PERMIT.

BMP INSTALLATION AND REMOVAL SEQUENCE

THE STAGING OF EARTHMOVING ACTIVITIES FOR THIS PROJECT IS A GENERAL DESCRIPTION OF THE WORK REQUIRED. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH COMPANY STANDARDS, THE STATE DEPARTMENT OF ENVIRONMENTAL QUALITY REGULATIONS AND ALL OTHER APPLICABLE FEDERAL, STATE OR LOCAL REQUIREMENTS.

THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN INCLUDING THE SOIL EROSION CONTROL DRAWINGS AND NARRATIVE SHALL BE AVAILABLE ON SITE AT ALL TIMES DURING EARTH DISTURBANCE.

- STAKE/FLAG ALL LIMITS OF DISTURBANCE FOR CONSTRUCTION ACTIVITIES, CLEARLY IDENTIFYING WETLAND AND STREAM EDGES. INSTALL SIGNS TO DESIGNATE THE AREA TO IDENTIFY IMPORTANT PROJECT ATTRIBUTES SUCH AS WETLAND/STREAM BOUNDS, EXCLUSION AREAS ETC.
- INSTALL ROCK CONSTRUCTION ENTRANCES IMMEDIATELY BEFORE INITIAL DISTURBANCES. THE ROCK CONSTRUCTION ENTRANCES TO BE UNDERLAIN BY FILTER FABRIC. ALL CONSTRUCTION TRAFFIC SHOULD USE ONLY ROCK CONSTRUCTION ENTRANCE FOR INGRESS AND EGRESS. ALL MUD OR SEDIMENT TRACKED ONTO THE EXISTING ROADWAY SHALL BE REMOVED BY THE CONTRACTOR AS NECESSARY.
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- FINALIZE UTILITY INSTALLATION AND PLACE TOPSOIL ON THE CUT AND FILL AREAS. STABILIZE CUT AND FILL SLOPES, AFTER PLACEMENT OF STOCKPILED TOPSOIL ON EXCAVATED SLOPES, AND AS DIRECTED.
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- ANY EXPOSED TOPSOIL PILES SHOULD BE STABILIZED & SEEDED PER THE PERMIT REGULATIONS, AND BY TABLES SHOWN ON THE APPROVED EROSION CONTROL PLANS AND MULCHED WITH STRAW AS SPECIFIED BY THE PROJECT OWNER.
- UPON MINIMUM 70% VEGETATIVE STABILIZATION, REMOVE TEMPORARY SEDIMENT CONTROLS. REMOVE ACCUMULATED SEDIMENTS WITHIN THE TRAPS, RE-GRADE TRAPS TO FINAL CONTOURS. STABILIZE SITE PER THE PLANS.

SEQUENCE OF CONSTRUCTION

- LIMITS OF CONSTRUCTION MUST BE FIELD MARKED PRIOR TO CLEARING, INSTALLATION OF SEDIMENT CONTROL MEASURES, CONSTRUCTION, OR OTHER LAND DISTURBING ACTIVITIES.
- DETAILED SEQUENCE OF CONSTRUCTION:
 - INSTALL STABILIZED CONSTRUCTION ENTRANCE.
 - CLEAR AND GRADE FOR INSTALLATION OF ECDS.
 - INSTALL SEDIMENT CONTROL DEVICES.
 - PREPARE TEMPORARY PARKING AND STORAGE AREA(S).
 - CLEAR AND GRUB THE SITE, AS REQUIRED.
 - START CONSTRUCTION OF THE SITE IMPROVEMENTS.
 - BEGIN GRADING THE SITE.
 - INSTALL UTILITIES.
 - PERFORM FINAL GRADING AND INSTALL PERMANENT SEEDING AND PLANTING.
 - REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES (ONLY IF SITE IS STABILIZED).

MAINTENANCE SCHEDULE

AFTER FULL REVEGETATION HAS BEEN ACHIEVED, ALL BMPs WILL BE REMOVED AND ANY LAND DISTURBED BY REMOVAL WILL BE PERMANENTLY STABILIZED. UNLESS OTHERWISE SPECIFIED, ALL MAINTENANCE MUST BE COMPLETED IMMEDIATELY AFTER AN INSPECTION IDENTIFIES THAT A BMP IS NOT FUNCTIONING AS REQUIRED.

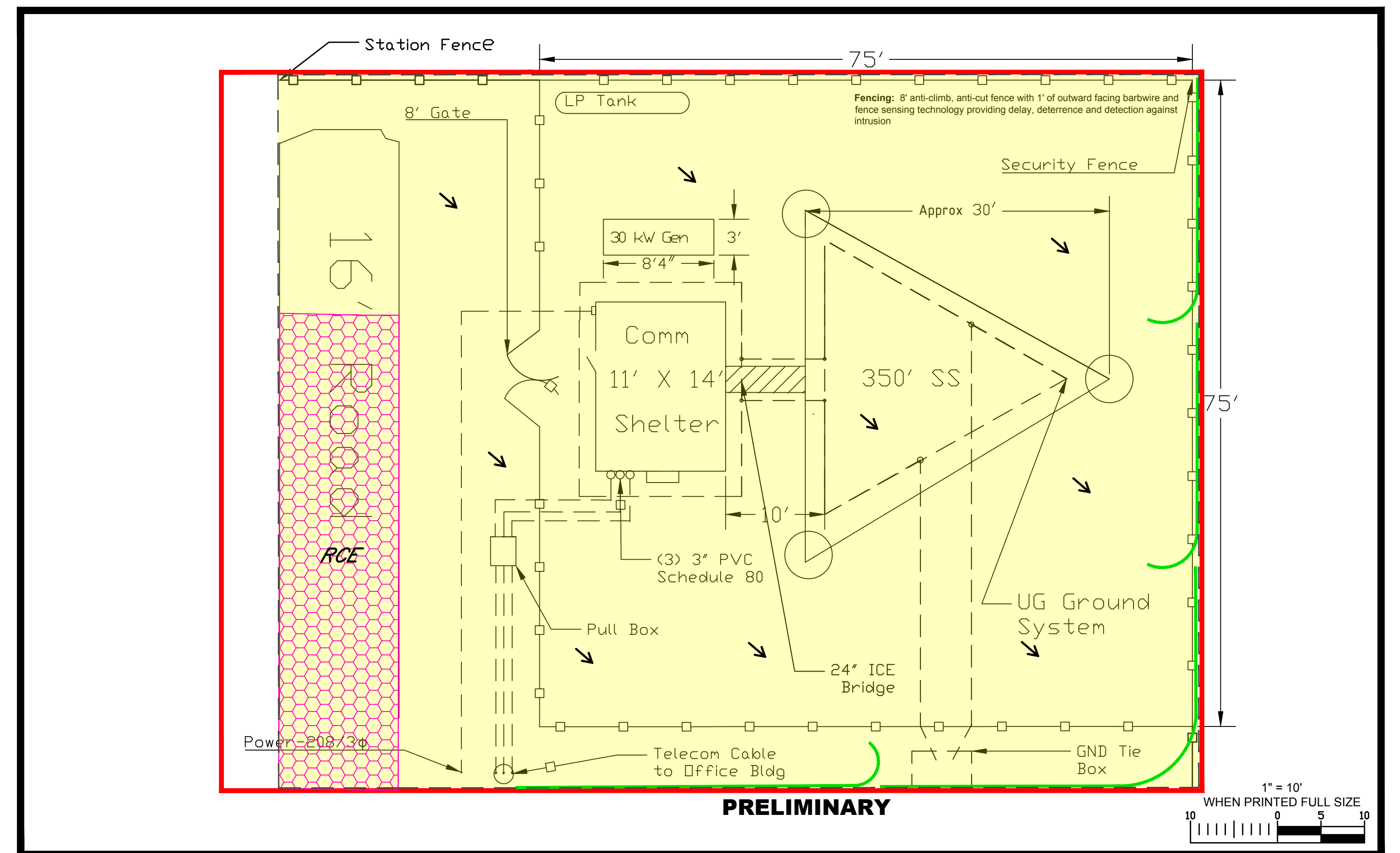
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- EROSION CONTROL MEASURES, WHICH HAVE BEEN UNDERMINED OR TOPPED, MUST IMMEDIATELY BE REPAIRED.
- OTHER REQUIRED REPAIRS OR MAINTENANCE SHALL BE MADE IMMEDIATELY.
- TEMPORARY AND PERMANENT E&S CONTROL BMPs SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.

SEEDING AND MULCHING

SEE SEED MIXES SPECIFIED IN THE ACP PROJECT RESTORATION PLAN.

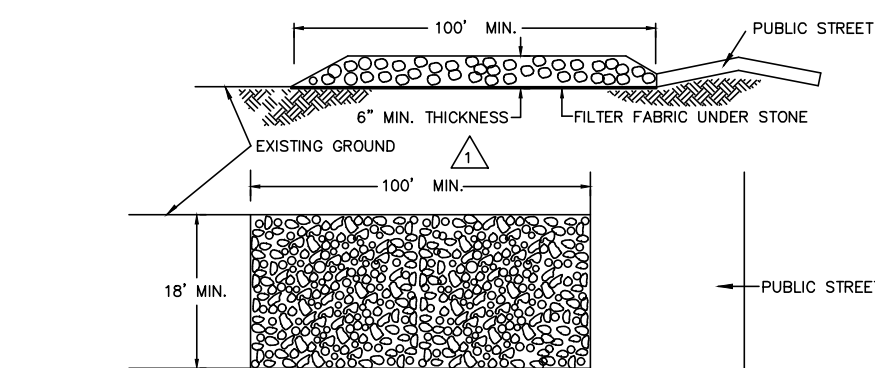
SEEDBED PREPARATION: AREAS TO BE SEEDED SHALL BE DISKED TO A DEPTH OF 4-IN TO 6-IN WHENEVER FEASIBLE, AND SMOOTHLY GRADED.

- IN TOPSOILED AREAS, SOIL TO BE REDISTRIBUTED EVENLY AND STABILIZED PRIOR TO SEEDING.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 21 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS PERMANENTLY CEASED.
- WHERE THE INITIATION OF STABILIZATION MEASURES WITHIN 7 DAYS AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS CONDITIONS ALLOW.
- AREAS WHERE THE SEED HAS FAILED TO GERMINATE ADEQUATELY (UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70%) WITHIN 30 DAYS, SEEDING AND MULCHING MUST BE RE-SEEDED IMMEDIATELY, OR AS SOON AS WEATHER CONDITIONS ALLOW.



LEGEND

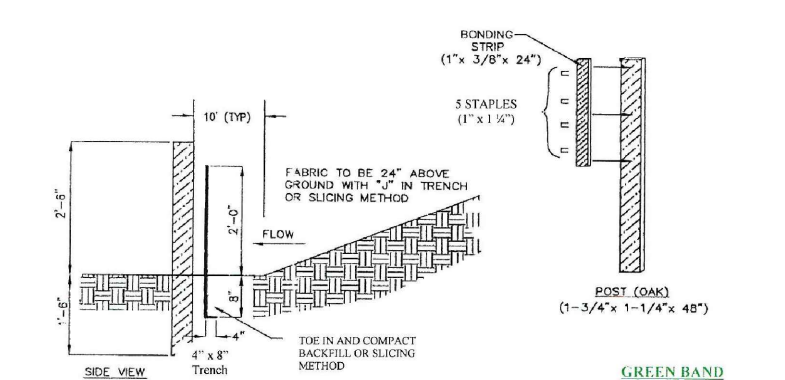
- LIMITS OF CONSTRUCTION
- LIMITS OF DISTURBANCE
- PROPOSED FEATURE
- PROPOSED FENCE
- PROPOSED COMPOST FILTER SOCK OR SILT FENCE
- ROCK CONSTRUCTION ENTRANCE (OR APPROVED ALT.)
- FLOW ARROW (PROPOSED)



- GENERAL NOTES:
- A STABILIZED PAD OF WASHED STONE SHALL BE LOCATED WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC STREET.
 - STONE TO BE SURGE STONE OR 2"-3" RAILROAD BALLAST.
 - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS TO EXISTING ADJACENT. THIS MAY REQUIRE PERIODIC TOP SPRINGING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANUP OF ANY MEASURES USED TO TRAP SEDIMENT.
 - ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC STREETS MUST BE REMOVED IMMEDIATELY.
 - WHEN NECESSARY, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING A PUBLIC STREET. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN.
 - FILTER FABRIC SHALL BE MIRAFI 500 OR EQUIVALENT.

ROCK CONSTRUCTION ENTRANCE

(N.C. STD. NO. 6.06)



BELTED SILT RETENTION FENCE (BSRF)

SILT-SAVER, INC.
 1094 CULPEPPER DRIVE • CONOVERS, GA 30024 •
 Office: 770-388-7618 • Fax: 770-388-7640 • Toll Free: 1-888-382-SILT (7428) • Website: www.silt-saver.com

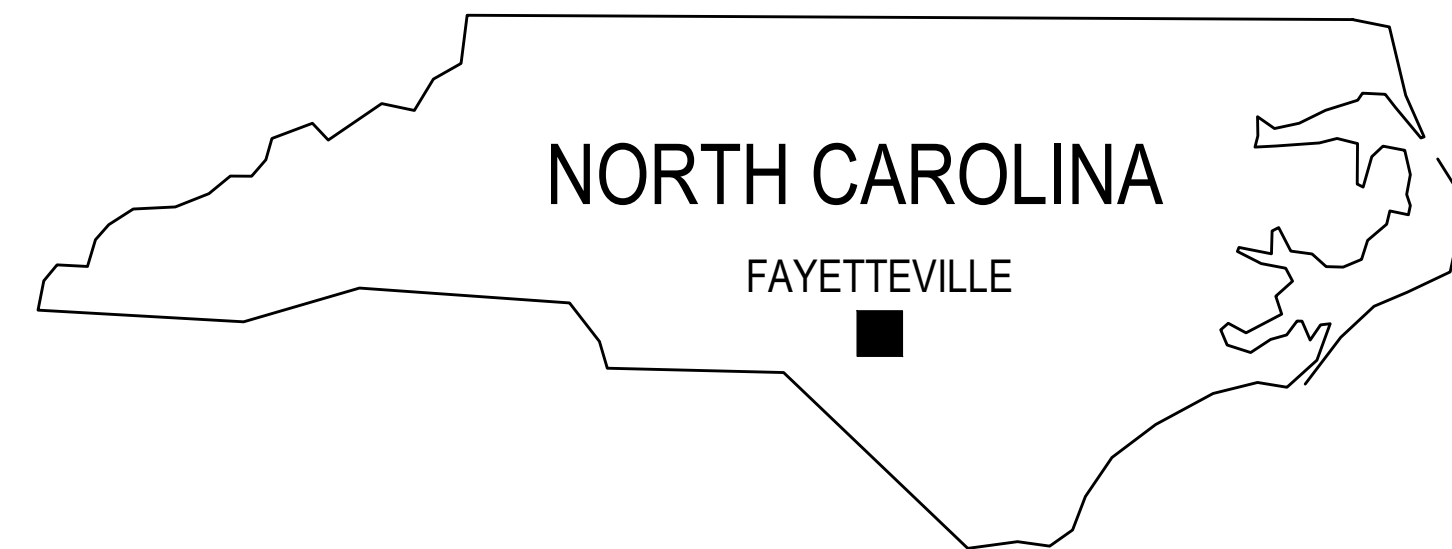
GENERAL NOTES AND COMMENTS:		SYM.	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.	SEAL
			03/07/17	WTS	ISSUED FOR REVIEW			

	DRAWN:	WTS	03/07/17
	CHECKED:	-	-
	APP. FOR BID:		
	APP. FOR CONST.:		
SCALE:	AS NOTED		

Atlantic Coast Pipeline, LLC 925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000					
ATLANTIC COAST PIPELINE COMMUNICATION TOWER ESC PLAN - TYPICAL					
DISTRICT:	COUNTY:	STATE:	GROUP:	DWG. NO.	REV.
				1-1	0

Contains Critical Energy Infrastructure Information - Filed Separately

FAYETTEVILLE M&R STATION EROSION AND SEDIMENT CONTROL PLAN



LIST OF DRAWINGS

DRAWING NO.	TITLE
PD_E 9939F	COVER SHEET
PD_E9939FA	EROSION & SEDIMENT CONTROL SITE PLAN
PD_E9939FB	EROSION & SEDIMENT CONTROL DETAILS

GENERAL NOTES

1. THE GENERAL NOTES AND LEGEND PROVIDED ON THIS SHEET APPLY TO ALL DRAWINGS, UNLESS OTHERWISE INDICATED.
2. THESE DRAWINGS ARE INTENDED FOR APPLICATION PURPOSES ONLY, AND ARE NOT RELEASED FOR CONSTRUCTION.
3. CONTOUR LINES ARE INDICATED AT 2-FOOT INTERVALS WITH ELEVATIONS MEASURED ABOVE MEAN SEAL LEVEL (MSL) DATUM, UNLESS OTHERWISE INDICATED.
4. SCALES AS ARE INDICATED ON EACH DRAWING.
5. CONTRACTOR SHALL NOTIFY NORTH CAROLINA "DIG SAFE" (1-800-632-4949) AT LEAST 3 DAYS PRIOR TO SUBSURFACE DISTURBANCE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL SITE UTILITIES PRIOR TO THE INITIATION OF ANY EXPLORATORY OR CONSTRUCTION ACTIVITIES.
6. CONTRACTOR SHALL MANAGE STORMWATER THROUGHOUT CONSTRUCTION ACTIVITIES AND PREVENT THE MIGRATION OF SEDIMENTS FROM THE SITE.
7. CONTRACTOR SHALL INSTALL TEMPORARY, AS REQUIRED, AND THREE PERMANENT BENCHMARKS PRIOR TO CONSTRUCTION. THE LOCATION OF ALL BENCHMARKS SHALL BE FIELD DETERMINED BY THE ENGINEER. ALL BENCHMARKS SHALL BE PROTECTED AND/OR RELOCATED IF A BENCHMARK MUST BE DISTURBED DURING CONSTRUCTION. BENCHMARKS SHALL BE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM (NGVD).
8. CONTRACTOR SHALL CONTROL AND MONITOR ALL CONSTRUCTION ACTIVITIES ON THE SITE TO ASSURE THAT NO ENVIRONMENTAL RELEASES TO OFFSITE AIR AND WATER RESOURCES OCCURS; ANY RELEASES SHALL IMMEDIATELY BE REPORTED TO THE OWNER, ENGINEER AND APPROPRIATE REGULATORY AGENCIES.
9. PROJECT IS LOCATED IN THE ROANOKE RIVER BASIN.

Notification of Combined Self-Monitoring and Self-Inspection Form:

The Sedimentation Pollution Control Act was amended in 2006 to require that persons responsible for land-disturbing activities inspect a project after each phase of the project to make sure that the approved erosion and sedimentation control plan is being followed. Rules detailing the documentation of these inspections took effect October 1, 2010.

To simplify documentation of Self-Inspection reports and NPDES Self-Monitoring Reports, DWQ and DEMLR developed a combined form. The self-inspection program is separate from the weekly self-monitoring program of the NPDES Stormwater Permit for Construction Activities. The focus of the self-inspection report is the installation and maintenance of erosion and sedimentation control measures according to the approved plan. The inspections should be conducted after each phase of the project, and continued until permanent ground cover is established. The form can be accessed at:

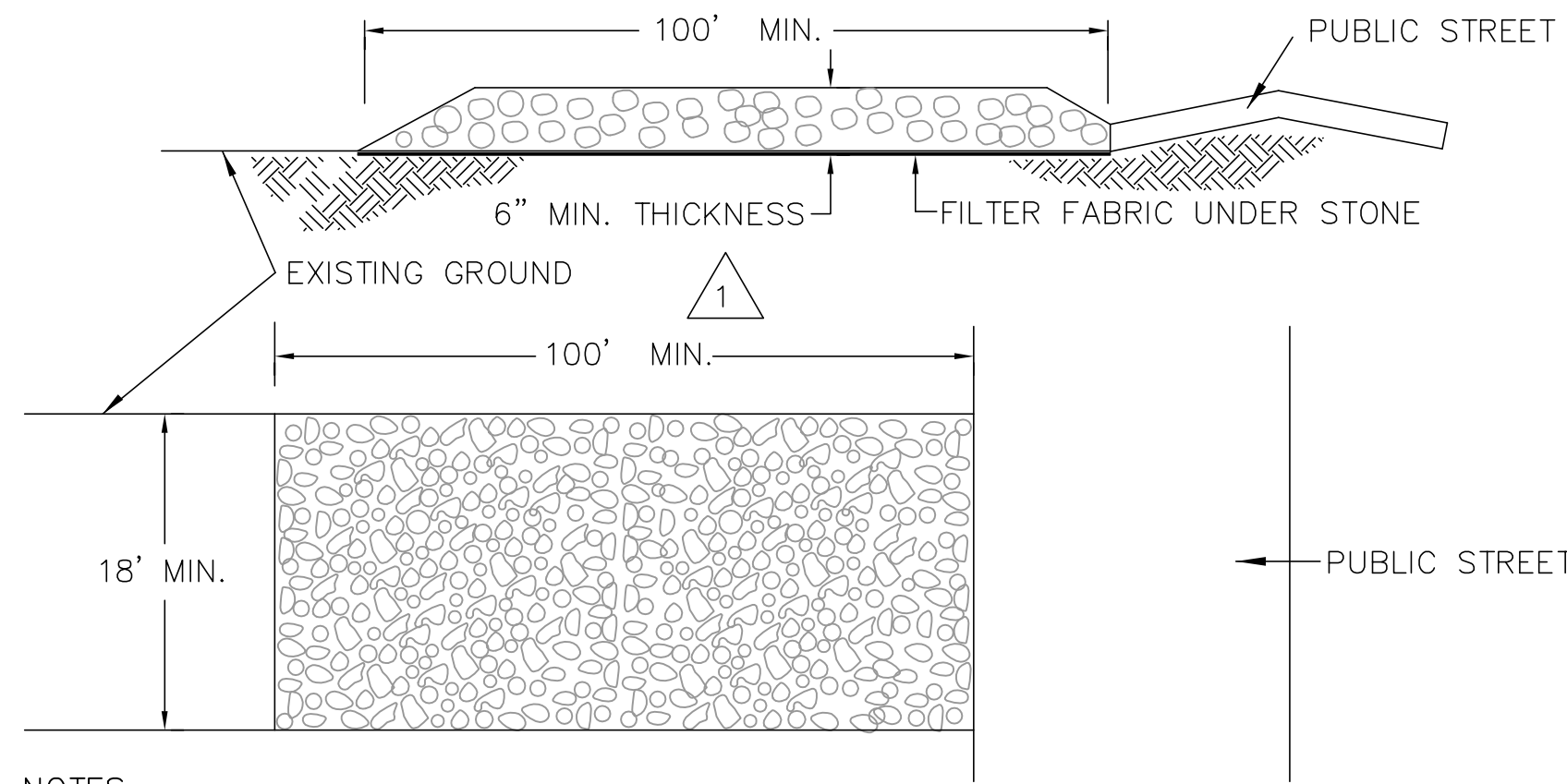
<http://portal.ncdenr.org/web/lr/erosion>

If you have questions or cannot access the form, please contact the Raleigh Regional Office at (919) 791-4200.

EROSION AND SEDIMENT CONTROLS LEGEND

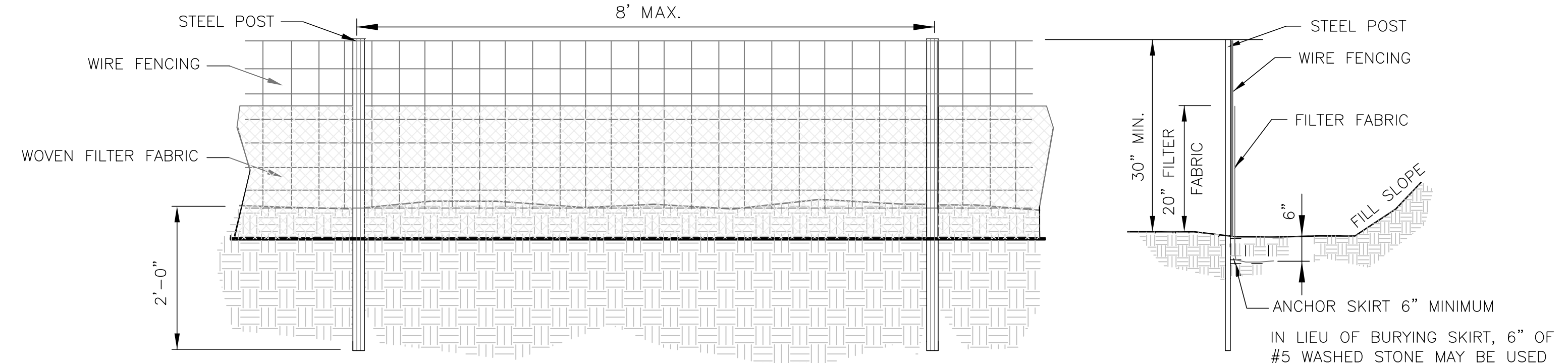
	CONSTRUCTION ENTRANCE WITH DITCH (CULVERT AS NEEDED)
	SILT FENCE
	LIMIT OF DISTURBANCE
	PROPERTY BOUNDARY
	EXISTING CONTOURS
	PROPOSED CONTOURS

SYM.	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.	SEAL	ORIGINAL CONSTRUCTION INFORMATION	Atlantic Coast Pipeline, LLC. <small>925 White Oaks Blvd. Bridgeport, West Virginia 26330 / Phone: (881) 842-3681</small>				
							PROJECT/TASK: 0345197.1001	FOR: FAYETTEVILLE M&R STATION				
							DRAWN: -	TITLE: EROSION AND SEDIMENT CONTROL COVER SHEET				
							CHECKED: -	TOWN: FAYETTEVILLE, NC	COUNTY: CUMBERLAND	GROUP: PD	DWG. NO: E9939F	REV: 0
							APP. FOR BID: -					
							APP. FOR CONST: -					
							SCALE: AS NOTED					
△	12/15/16	TS	ISSUED FOR CONSTRUCTION	0345197.1001	SL							



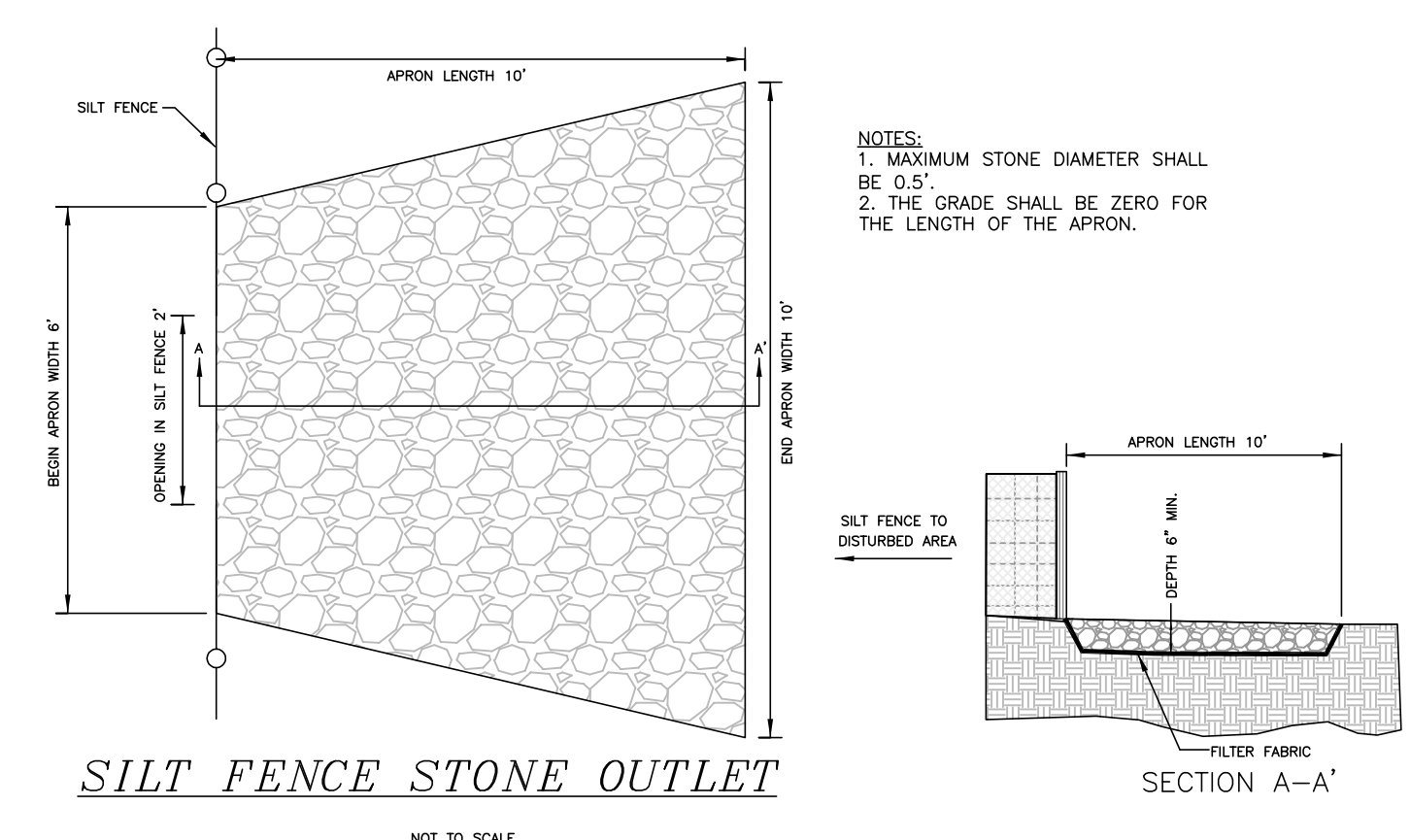
- GENERAL NOTES:**
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 - STONE TO BE SURGE STONE OR 2"-3" RAILROAD BALLAST.
 - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS OR EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 - ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC STREETS MUST BE REMOVED IMMEDIATELY.
 - WHEN NECESSARY, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING A PUBLIC STREET. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN.
 - FILTER FABRIC SHALL BE MIRAFI 500 OR EQUIVALENT.

1 TEMPORARY GRAVEL CONSTRUCTION ENTRANCE DETAIL
E9939FA NOT TO SCALE



- GENERAL NOTES:**
- FILTER FABRIC FENCE SHALL BE A MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
 - WOVEN FILTER FABRIC BE USED WHERE SILT FENCE IS TO REMAIN FOR A PERIOD OF MORE THAN 30 DAYS.
 - STEEL POSTS SHALL BE 5'-0" IN HEIGHT AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.
 - WIRE FENCING SHALL BE AT LEAST #10 GAGE WITH A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
 - TURN SILT FENCE UP SLOPE AT ENDS.
 - WIRE AND WASHED STONE WILL BE REQUIRED AND NOTED ON PLANS WHEN:
 - AT TOE OF SLOPES GREATER THAN 10 FEET VERTICAL (2:1 SLOPE)
 - AT DENUDED LIMITS WHERE AN UNDISTURBED BUFFER IS 50 FEET OR LESS AWAY
- MAINTENANCE NOTES:**
- FILTER BARRIERS SHALL BE INSPECTED BY THE FINANCIALLY RESPONSIBLE PARTY OR HIS AGENT IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS NEEDED SHALL BE MADE IMMEDIATELY.
 - SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
 - SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS REACH APPROX. HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS REMOVED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

2 SILT FENCE DETAIL
E9939FA NOT TO SCALE



3 SILT FENCE STONE OUTLET DETAIL
E9939FA NOT TO SCALE

SEEDING SPECIFICATIONS:

Date	Type	Planting Rate
Aug. 15 - Nov. 1	Tall Fescue	300 lb./ac. or 7 lb./1000 s. f.
Nov. 1 - Mar. 1	Tall Fescue and Abruzzi Rye	300 lb./ac. or 7 lb./1000 s. f. 25 lb./ac. or 1/2 lb./1000 s. f.
Mar. 1 - Apr. 15	Tall Fescue	300 lb./ac. or 7 lb./1000 s. f.
Apr. 15 - Jul. 30	Mulled Common Bermudagrass	30 lb./ac. or 1 lb./1000 s. f.
Jul. 15 - Aug. 15	Tall Fescue and Browntop Millet or Sorghum Sudan Hybrids	300 lb./ac. or 7 lb./1000 s. f. 35 lb./ac. or 7/8 lb./1000 s. f. 30 lb./ac. or 3/4 lb./1000 s. f.

Mulch with straw applied at the rate of 95-100 lb./1000 s.f.
Heavily mulched during January - March period.

Apply agricultural lime at the rate of 90 lb./1000 s.f.
Apply 10-10-10 commercial fertilizer at the rate of 20 lb./1000 s.f.
Tack: Asphalt tie down - 225 gal./ac.

SOIL AMENDMENTS
APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY 4,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 1,000 LB/ACRE 10-10-10 FERTILIZER.

MULCH
APPLY 4,000-5,000 LB/ACRE GRAIN STRAW, OR EQUIVALENT COVER OF ANOTHER SUITABLE MULCHING MATERIAL. ANCHOR MULCH BY TACKING WITH ASPHALT, ROWING, OR NETTING. NETTING IS THE PREFERRED ANCHORING METHOD ON STEEP SLOPES.

MAINTENANCE
REFERTILIZE IN THE SECOND YEAR UNLESS GROWTH IS FULLY ADEQUATE. MAY BE MOWED ONCE OR TWICE A YEAR, BUT MOWING IS NOT NECESSARY. RESEED, FERTILIZE, AND MULCH DAMAGED AREAS IMMEDIATELY.

STABILIZATION TIMEFRAMES

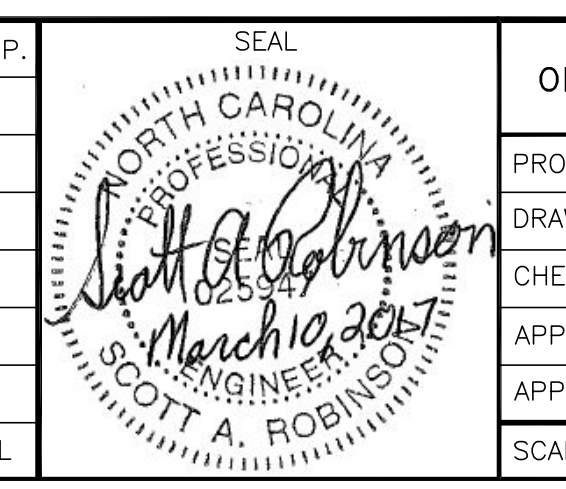
PERIMETER DIKES, SWALES, DITCHES, SLOPES	7 DAYS
HIGH QUALITY WATER (HOW) ZONES	7 DAYS
SLOPES STEEPER THAN 3:1	7 DAYS
SLOPES 3:1 OR FLATTER	14 DAYS
ALL OTHER AREAS (Slopes flatter than 4:1)	14 DAYS

- SEEDBED PREPARATION NOTES:**
- Surface water control measures to be installed according to plan.
 - Areas to be seeded shall be ripped and spread with available topsoil 3" deep.
 - Loose rocks, roots and other obstructions shall be removed from the surface so that they will not interfere with establishment and maintenance of vegetation. Surface for final seedbed preparation, at finish grades shown, shall be reasonably smooth and uniform.
 - If no soil test is taken, fertilizer and lime to be according to seeding specifications above. In addition, provide 15 lbs./1000 s.f. of super-phosphate.
 - If soil test is taken, provide fertilizer and lime according to soil test report.
 - Fertilizer and lime shall be applied uniformly and mixed with the soil during seedbed preparation.
 - Additional erosion control measures may be required depending on field conditions.
 - Mulch to be tacked or mechanically tied down within two days after mulch is spread.
 - Buffer zones to be used only as specifically denoted on plans.
 - Borrow and fill to be balanced on site.

- CONSTRUCTION SEQUENCE**
- A pre-construction meeting should take place prior to start of construction activities.
 - Begin clearing and grubbing site. Clear and grub only those areas necessary for installation of the erosion control measures.
 - Install silt fence as shown on the plans.
 - Once erosion control measures have been installed and prior to sediment removal activities, the site is to be inspected by NCDENR - Land Quality.
 - Grade site according to contract documents. Maintain erosion control devices as needed.
 - Install storm drainage as indicated on plans.
 - Grass or otherwise stabilize all areas as they are brought to final grades.
 - The contractor shall diligently and continuously maintain all erosion control devices and structures to minimize erosion. Inspect and repair measures after each rainfall and as needed throughout the project.
 - Contractor to leave all erosion control devices in place at the conclusion of this contract. Contractor is to clean-out, repair and grass stabilize all denuded areas. All areas will be returned to the state of existing conditions prior to contract as a minimum.
 - It is the contractor's responsibility to contain sediment onsite. Additional erosion control measures may be required by the Engineer.
 - All erosion control measures to be in accordance with the North Carolina Erosion and Sediment Control Planning and Design Requirements and Land Development Standards.

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SYM.	DATE	BY	PROJECT/TASK	APP.	SCALE	ORIGINAL CONSTRUCTION INFORMATION	FOR:
						PROJECT/TASK: 0345197.1001	
						DRAWN: -	
						CHECKED: -	TITLE:
						APP. FOR BID: -	
						APP. FOR CONST.: -	TOWN: FAYETTEVILLE, NC COUNTY: CUMBERLAND GROUP
						SCALE: AS NOTED	DIR/FILE:
							DWG. NO. PD
							DWG. NO. E9939FB
							REV. 0



Atlantic Coast Pipeline, LLC.
925 White Oaks Blvd. Bridgeport, West Virginia 26330 / Phone: (681) 842-3681

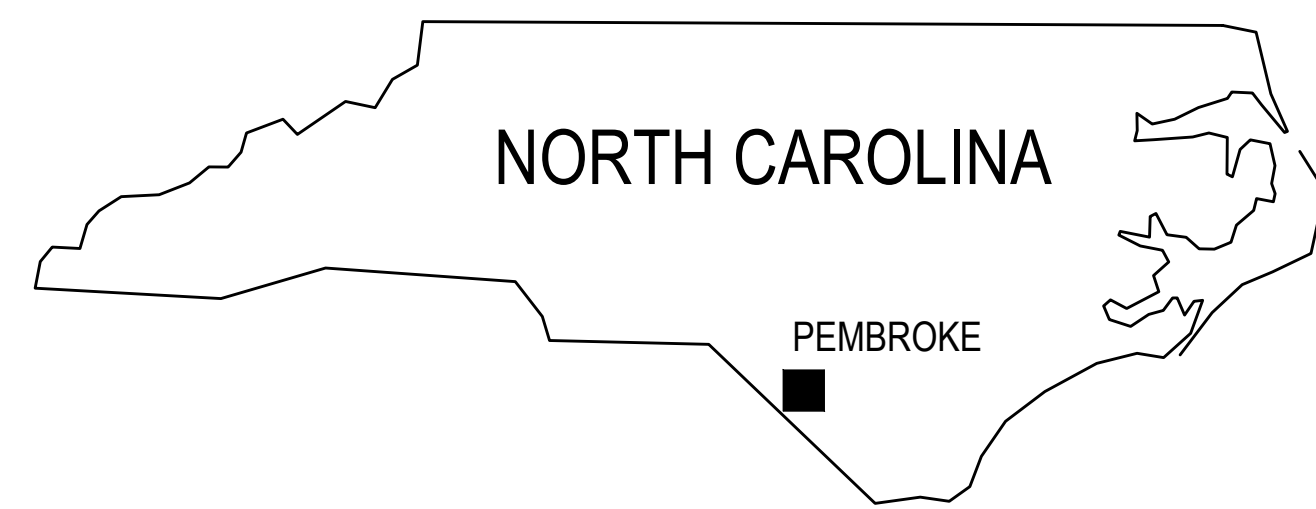
FAYETTEVILLE M&R STATION
EROSION AND SEDIMENT CONTROL
DETAILS

Contains Critical Energy Infrastructure Information - Filed Separately

PEMBROKE M&R STATION EROSION AND SEDIMENT CONTROL PLAN

LIST OF DRAWINGS

DRAWING NO.	TITLE
PD-E9940F	COVER SHEET
PD-E9940FA	EROSION & SEDIMENT CONTROL SITE PLAN
PD-E9940FB	EROSION & SEDIMENT CONTROL DETAILS



GENERAL NOTES

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4. SCALES AS ARE INDICATED ON EACH DRAWING.
5. CONTRACTOR SHALL NOTIFY NORTH CAROLINA "DIG SAFE" (1-800-632-4949) AT LEAST 3 DAYS PRIOR TO SUBSURFACE DISTURBANCE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL SITE UTILITIES PRIOR TO THE INITIATION OF ANY EXPLORATORY OR CONSTRUCTION ACTIVITIES.
6. CONTRACTOR SHALL MANAGE STORMWATER THROUGHOUT CONSTRUCTION ACTIVITIES AND PREVENT THE MIGRATION OF SEDIMENTS FROM THE SITE.
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8. CONTRACTOR SHALL CONTROL AND MONITOR ALL CONSTRUCTION ACTIVITIES ON THE SITE TO ASSURE THAT NO ENVIRONMENTAL RELEASES TO OFFSITE AIR AND WATER RESOURCES OCCURS; ANY RELEASES SHALL IMMEDIATELY BE REPORTED TO THE OWNER, ENGINEER AND APPROPRIATE REGULATORY AGENCIES.
9. PROJECT IS LOCATED IN THE LUMBER RIVER BASIN.

Notification of Combined Self-Monitoring and Self-Inspection Form:

The Sedimentation Pollution Control Act was amended in 2006 to require that persons responsible for land-disturbing activities inspect a project after each phase of the project to make sure that the approved erosion and sedimentation control plan is being followed. Rules detailing the documentation of these inspections took effect October 1, 2010.

To simplify documentation of Self-Inspection reports and NPDES Self-Monitoring Reports, DWQ and DEMLR developed a combined form. The self-inspection program is separate from the weekly self-monitoring program of the NPDES Stormwater Permit for Construction Activities. The focus of the self-inspection report is the installation and maintenance of erosion and sedimentation control measures according to the approved plan. The inspections should be conducted after each phase of the project, and continued until permanent ground cover is established. The form can be accessed at:

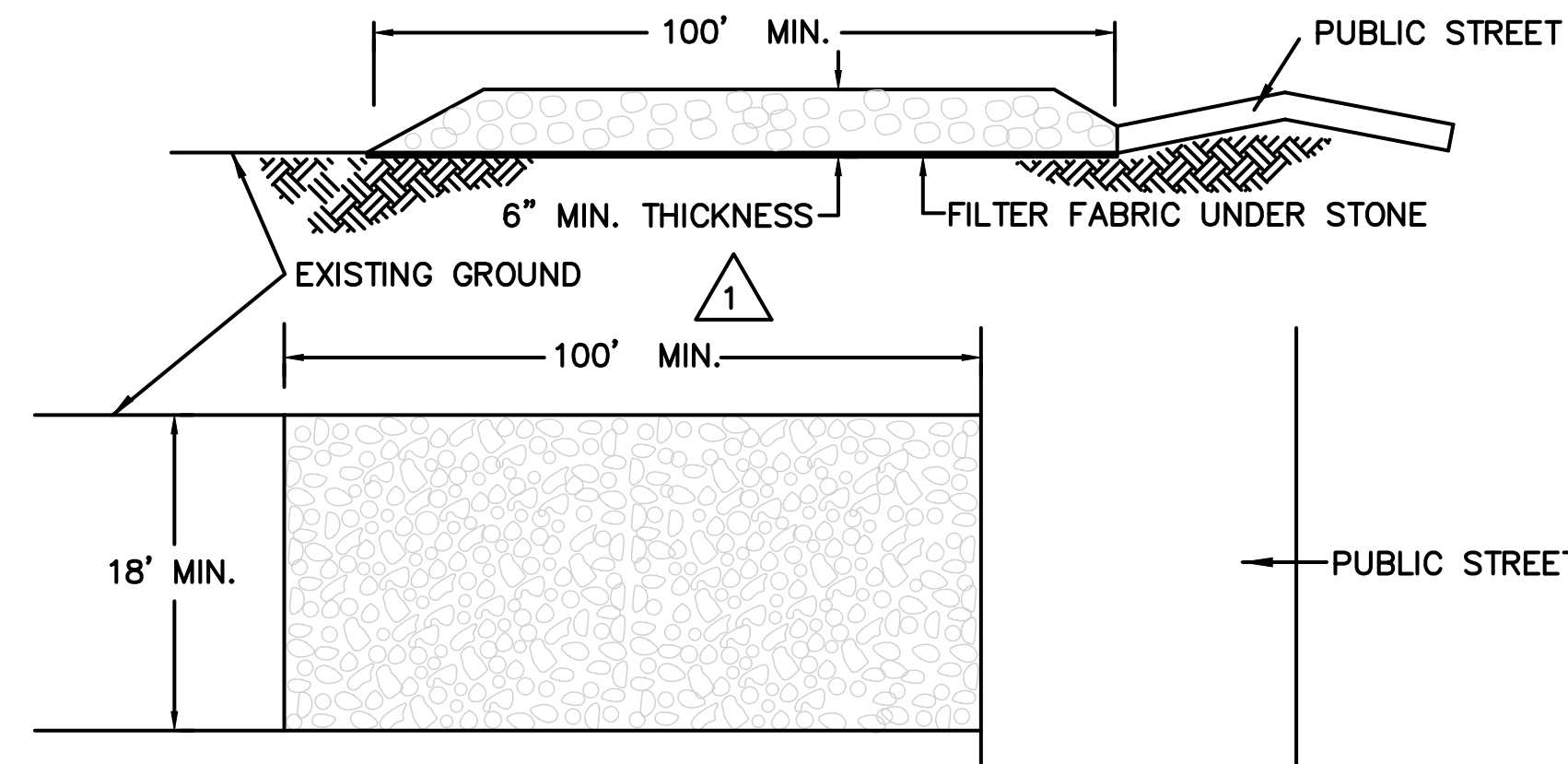
<http://portal.ncdenr.org/web/lr/erosion>

If you have questions or cannot access the form, please contact the Raleigh Regional Office at (919) 791-4200.

EROSION AND SEDIMENT CONTROLS LEGEND

- CONSTRUCTION ENTRANCE WITH DITCH (CULVERT AS NEEDED)**
- SILT FENCE**
- LIMIT OF DISTURBANCE**
- PROPERTY BOUNDARY**
- EXISTING CONTOURS**
- PROPOSED CONTOURS**

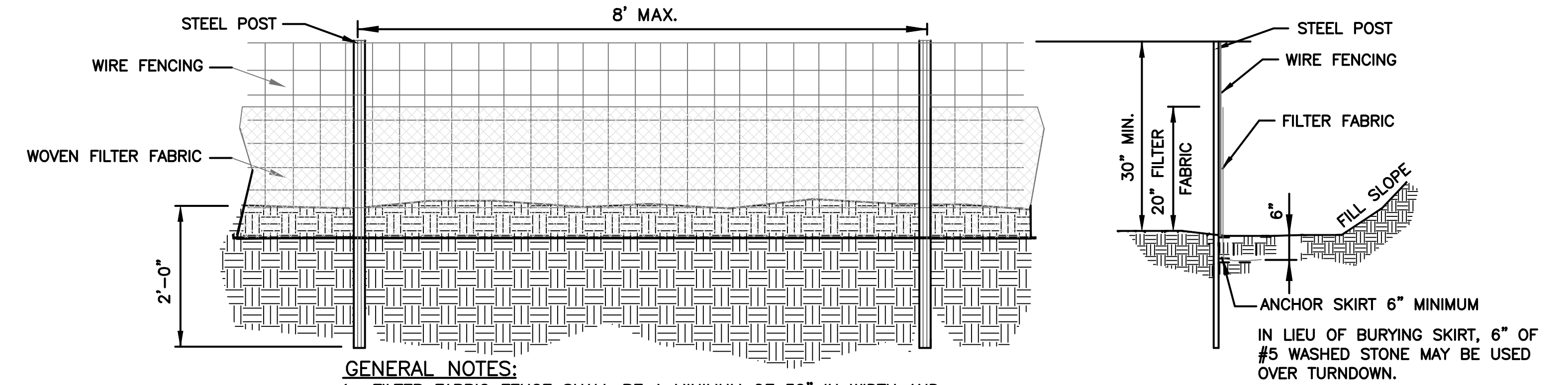
SYM			DATE			BY			REVISION INFORMATION			PROJECT/TASK			APP.			SEAL			ORIGINAL CONSTRUCTION INFORMATION			Atlantic Coast Pipeline, LLC.					
																								PROJECT/TASK: 0345197.1001 DRAWN: R. KEEN CHECKED: -- APP FOR BD: -- APP FOR CONST: -- SCALE: AS NOTED			FOR: PEMBROKE M&R STATION TITLE: EROSION & SEDIMENT CONTROL COVER SHEET TOWN: PEMBROKE, NC COUNTY: ROBESON GROUP: PD DWG NO: E9940F REV: 0		
12/16/18 TS									ISSUED FOR CONSTRUCTION			0345197.1001			SL														



GENERAL NOTES:

1. A STABILIZED PAD OF WASHED STONE SHALL BE LOCATED WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC STREET.
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6. FILTER FABRIC SHALL BE MIRAFI 500 OR EQUIVALENT.

1 TEMPORARY GRAVEL CONSTRUCTION ENTRANCE DETAIL
E9940FA NOT TO SCALE



GENERAL NOTES:

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2. WOVEN FILTER FABRIC BE USED WHERE SILT FENCE IS TO REMAIN FOR A PERIOD OF MORE THAN 30 DAYS.
3. STEEL POSTS SHALL BE 5'-0" IN HEIGHT AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.
4. WIRE FENCING SHALL BE AT LEAST #10 GAGE WITH A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
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6. WIRE AND WASHED STONE WILL BE REQUIRED AND NOTED ON PLANS WHEN:
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 - B. AT DENUDED LIMITS WHERE AN UNDISTURBED BUFFER IS 50 FEET OR LESS AWAY

MAINTENANCE NOTES:

1. FILTER BARRIERS SHALL BE INSPECTED BY THE FINANCIALLY RESPONSIBLE PARTY OR HIS AGENT IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS NEEDED SHALL BE MADE IMMEDIATELY.
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2 SILT FENCE DETAIL
E9940FA NOT TO SCALE

SEEDING SPECIFICATIONS:

Date	Type	Planting Rate
Aug. 15 - Nov. 1	Tall Fescue	300 lb./ac. or 7 lb./1000 s.f.
Nov. 1 - Mar. 1	Tall fescue and Abruzzi Rye	300 lb./ac. or 7 lb./1000 s.f. 25 lb./ac. or 1/2 lb./1000 s.f.
Mar. 1 - Apr. 15	Tall Fescue	300 lb./ac. or 7 lb./1000 s.f.
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Jul. 15 - Aug. 15	Tall Fescue and Browntop Millet or Sorghum Sudan Hybrids	300 lb./ac. or 7 lb./1000 s.f. 35 lb./ac. or 7/8 lb./1000 s.f. 30 lb./ac. or 3/4 lb./1000 s.f.

Mulch with straw applied at the rate of 95-100 lb./1000 s.f.
Heavily mulched during January - March period.

Apply agricultural lime at the rate of 90 lb./1000 s.f.
Apply 10-10-10 commercial fertilizer at the rate of 20 lb./1000 s.f.
Tack: Asphalt tie down - 225 gal./ac.

SOIL AMENDMENTS

APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY 4,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 1,000 LB/ACRE 10-10-10 FERTILIZER.

MULCH

APPLY 4,000-5,000 LB/ACRE GRAIN STRAW, OR EQUIVALENT COVER OF ANOTHER MOWED ONCE OR TWICE A YEAR, BUT MOWING IS NOT NECESSARY. RESEED, FERTILIZE, AND MULCH DAMAGED AREAS IMMEDIATELY.

STABILIZATION TIMEFRAMES

PERIMETER DIKES, SWALES, DITCHES, SLOPES	7 DAYS
HIGH QUALITY WATER (HQW) ZONES	7 DAYS
SLOPES STEEPER THAN 3:1	7 DAYS
SLOPES 3:1 OR FLATTER	14 DAYS
ALL OTHER AREAS (Slopes flatter than 4:1)	14 DAYS

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1. Surface water control measures to be installed according to plan.
2. Areas to be seeded shall be ripped and spread with available topsoil 3" deep.
3. Loose rocks, roots and other obstructions shall be removed from the surface so that they will not interfere with establishment and maintenance of vegetation. Surface for final seedbed preparation, at finish grades shown, shall be reasonably smooth and uniform.
4. If no soil test is taken, fertilizer and lime to be according to seeding specifications above. In addition, provide 15 lbs./1000 s.f. of super-phosphate.
5. If soil test is taken, provide fertilizer and lime according to soil test report.
6. Fertilizer and lime shall be applied uniformly and mixed with the soil during seedbed preparation.
7. Additional erosion control measures may be required depending on field conditions.
8. Mulch to be tacked or mechanically tied down within two days after mulch is spread.
9. Buffer zones to be used only as specifically denoted on plans.
10. Borrow and fill to be balanced on site.

CONSTRUCTION SEQUENCE

1. A pre-construction meeting should take place prior to start of construction activities.
2. Begin clearing and grubbing site. Clear and grub only those areas necessary for installation of the erosion control measures.
3. Install silt fence as shown on the plans.
4. Once erosion control measures have been installed and prior to sediment removal activities, the site is to be inspected by NCDENR - Land Quality.
5. Grade site according to contract documents. Maintain erosion control devices as needed.
6. Install storm drainage as indicated on plans.
7. Grass or otherwise stabilize all areas as they are brought to final grades.
8. The contractor shall diligently and continuously maintain all erosion control devices and structures to minimize erosion. Inspect and repair measures after each rainfall and as needed throughout the project.
9. Contractor to leave all erosion control devices in place at the conclusion of this contract. Contractor is to clean-out, repair and grass stabilize all denuded areas. All areas will be returned to the state of existing conditions prior to contract as a minimum.
10. It is the contractor's responsibility to contain sediment onsite. Additional erosion control measures may be required by the Engineer.
11. All erosion control measures to be in accordance with the North Carolina Erosion and Sediment Control Planning and Design Requirements and Land Development Standards.

SYM.	DATE	BY	PROJECT/TASK	APP.	SEAL	ORIGINAL CONSTRUCTION INFORMATION	Atlantic Coast Pipeline, LLC.				
						PROJECT/TASK: 0345197.1001	925 White Oaks Blvd. Bridgeport, West Virginia 28330 / Phone: (811) 842-3681				
						DRAWN: -	FOR: PEMROKE M&R STATION				
						CHECKED: -	TITLE: EROSION AND SEDIMENT CONTROL DETAILS				
						APP. FOR BID: -					
						APP. FOR CONST: -	TOWN: PEMROKE, NC	COUNTY: ROBESON	GROUP: PD	DWG. NO. E9940FB	REV. 0
						SCALE: AS NOTED	DIR/FILE:				
12/16/16	TS		ISSUED FOR CONSTRUCTION	0345197.1001	SL						

ATLANTIC COAST PIPELINE PROJECT CONTRACTOR YARDS FAYETTEVILLE REGION

CUMBERLAND COUNTY NORTH CAROLINA

EROSION & SEDIMENT CONTROL PLAN

PROJECT CONTACTS



OWNER/APPLICANT
DOMINION TRANSMISSION, INC.
5000 DOMINION BOULEVARD
GLEN ALLEN, VA 23060
PHONE: 804-335-4923



CONSULTANT
ENVIRONMENTAL RESOURCES MANAGEMENT
1000 IDS CENTER
80 SOUTH EIGHTH STREET
MINNEAPOLIS, MN 55402
WAYNE SICORA, PE, CPESC
612-347-7128
www.nc811.org

EXISTING INFORMATION SOURCES

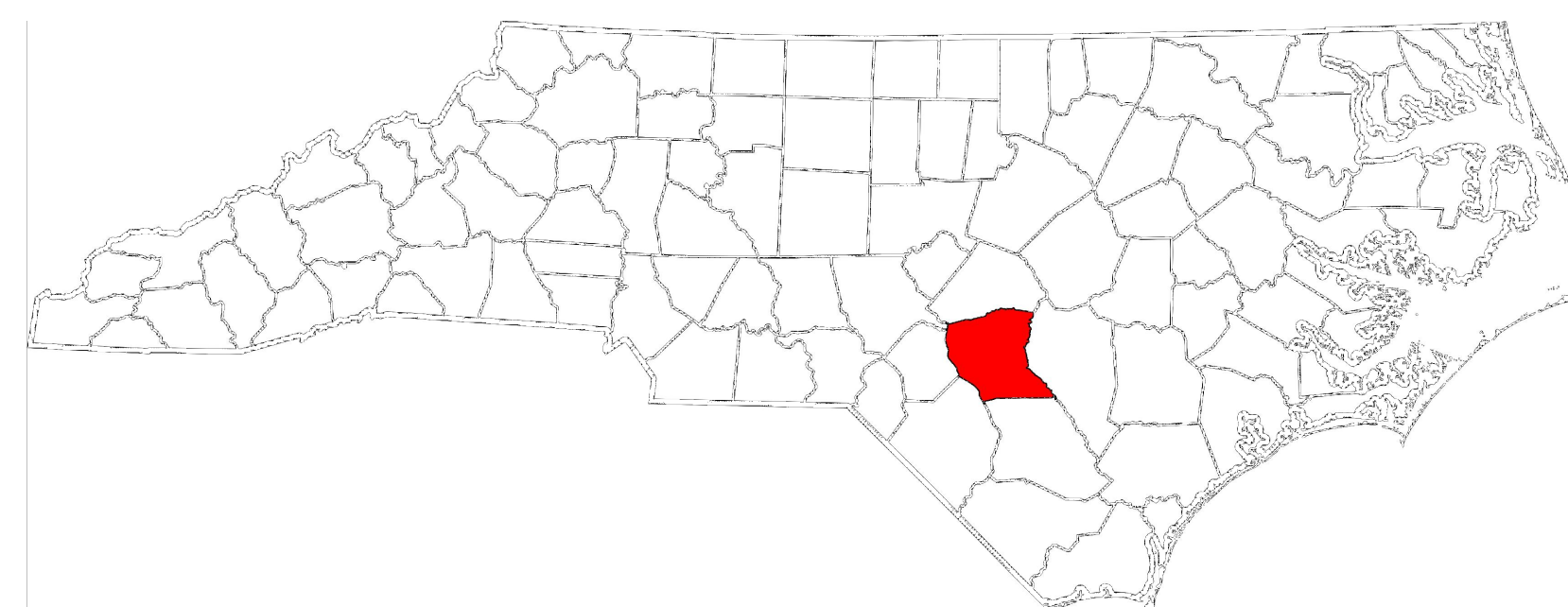
CONTOURS AND BASE MAP PROVIDED BY IS CONSULTING, LLC WITH ADDITIONAL CONTOURS OBTAINED FROM THE USGS NATIONAL ELEVATION DATASET.

PLAN REPRODUCTION WARNING

THE PLANS HAVE BEEN CREATED ON 24" x 36" SHEETS FOR REDUCTIONS. REFER TO GRAPHIC SCALE.

THE PLANS HAVE BEEN CREATED FOR FULL COLOR PLOTTING, AND SET OF THE PLANS THAT IS NOT PLOTTED IN FULL COLOR SHALL NOT BE CONSIDERED ADEQUATE FOR CONSTRUCTION PURPOSES.

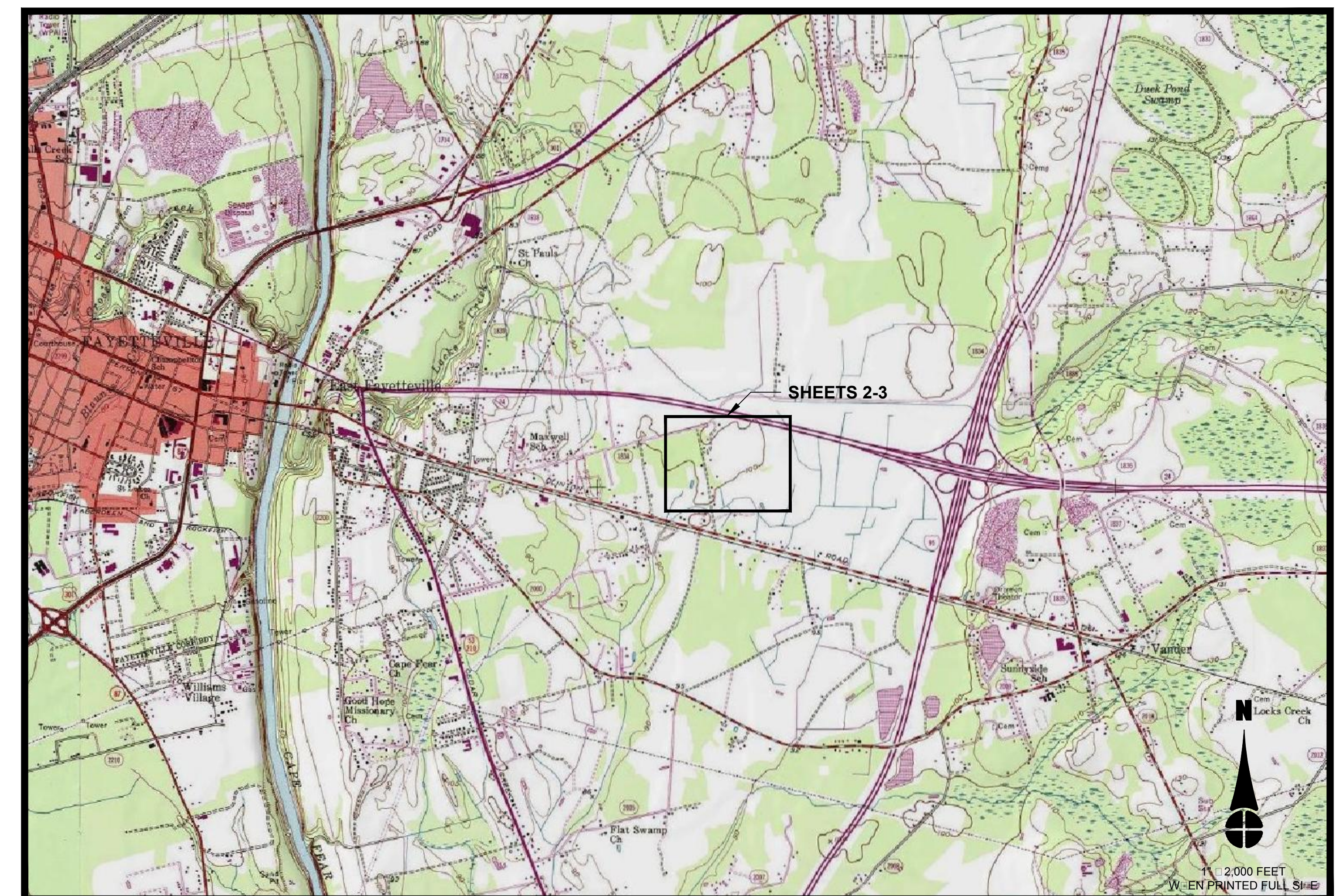
WARNING INFORMATION MAY BE LOST IN COPYING AND/OR GRAY SCALE PLOTTING.



NORTH CAROLINA

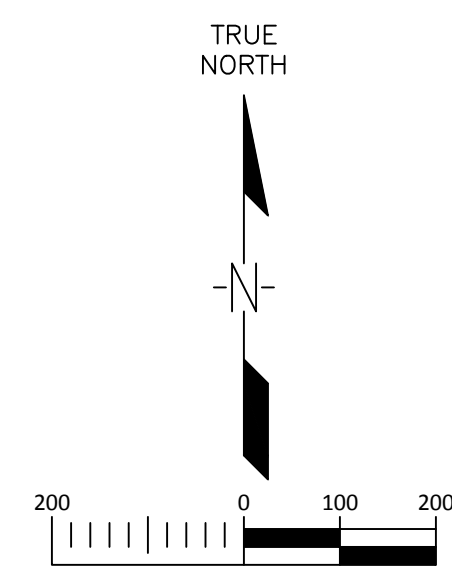
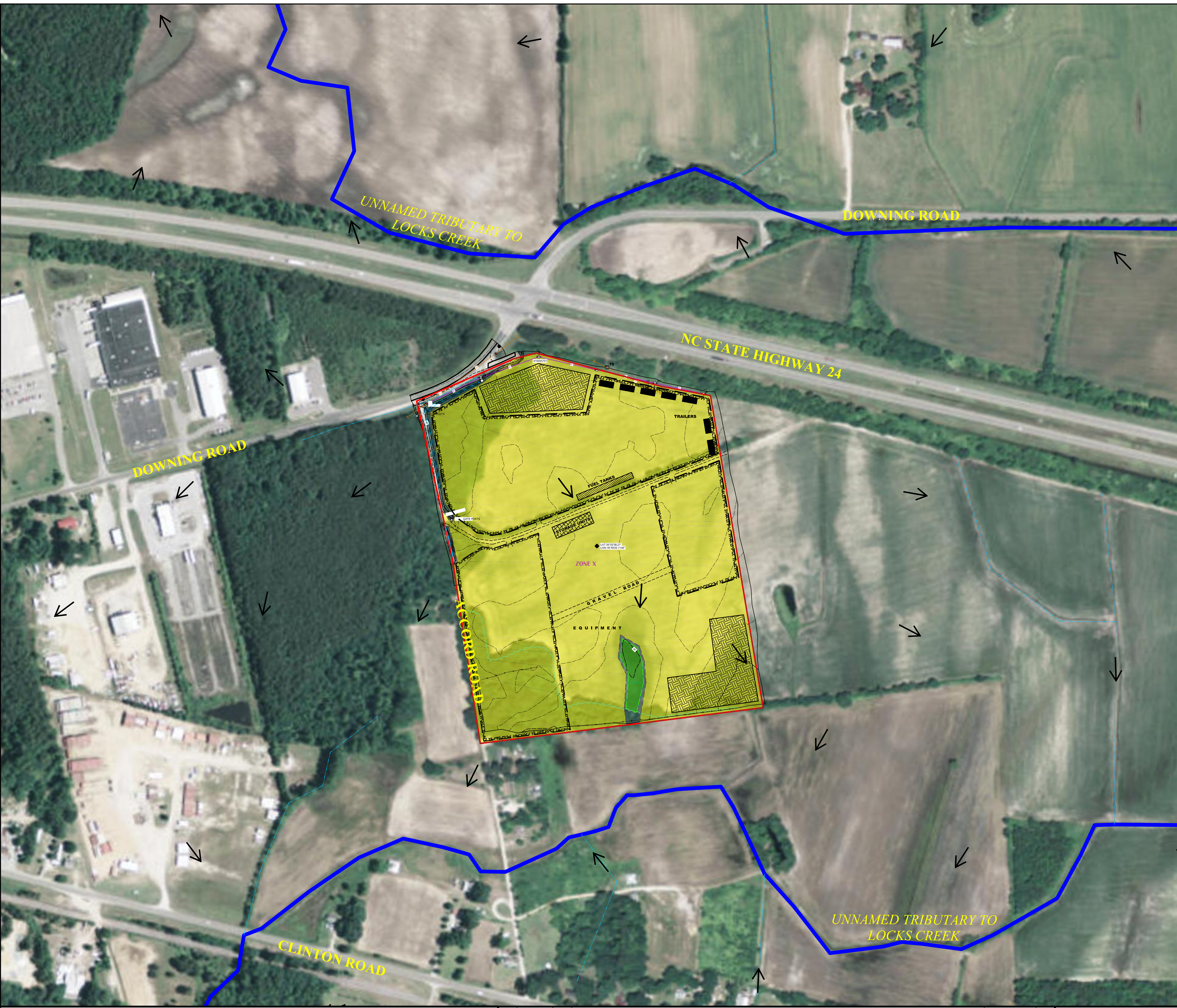


LOCATION MAP



SHEET INDEX

●	03/10/2017	SHEET 1 - COVER SHEET
●	03/10/2017	SHEET 2 - FAYETTEVILLE SP10-CY SPR10-A AERIAL OVERVIEW
●	03/10/2017	SHEET 3 - FAYETTEVILLE SP10-CY SPR10-A ESCP
●	03/10/2017	SHEET 4 - ESCP NOTES
●	03/10/2017	SHEET 5 - ESCP DETAILS
●	03/10/2017	SHEET 6 - ESCP DETAILS
●	03/10/2017	SHEET 7 - ESCP DETAILS
DRAWING INDEX LEGEND		
<p> FILLED CIRCLE INDICATES DRAWING INCLUDED WITH THIS ISSUE MOST RECENT REVISION NUMBER MOST RECENT ISSUE OR REVISION DATE </p>		
●	- 03/10/2017	SHEET 1 - SHEET TITLE

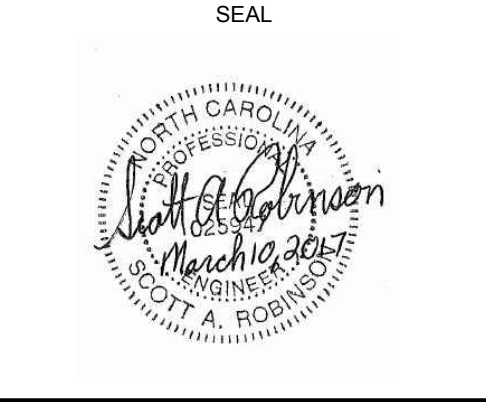


LEGEND

- LIMITS OF CONSTRUCTION
- LIMITS OF DISTURBANCE
- CONTRACTOR YARD LIMITS
- OVERHEAD ELECTRIC LINE
- UNDERGROUND GAS LINE
- FENCE
- DITCH
- STREAM
- CONTOUR
- WETLAND
- FUEL TANK AREA (25' x 250')
- TRAILER (24' x 60')
- STORAGE UNITS
- TOP SOIL SEGREGATION AREA
- GRAVEL AREA
- UTILITY POLE
- GUY ANCHOR
- GUY POLE
- UTILITY VALVE
- LINE MARKER
- POST
- TEST STAND
- TEMPORARY BENCH MARK
- FLOW ARROW

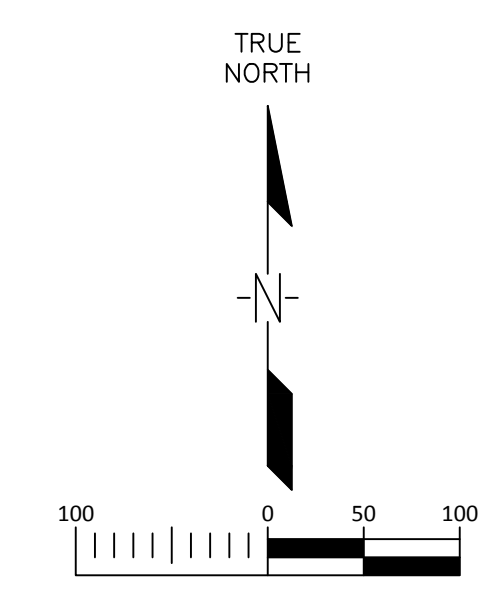
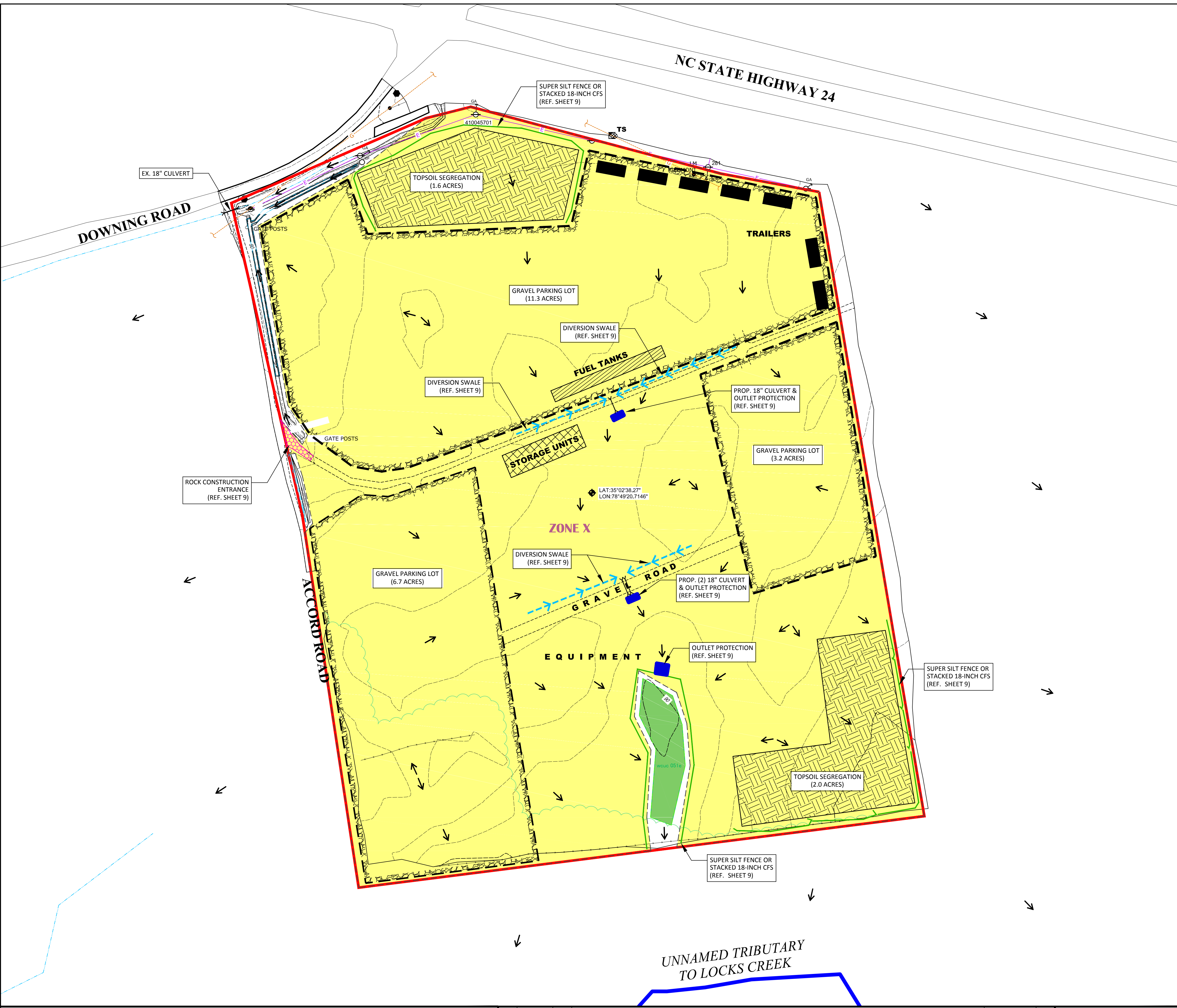
GENERAL NOTES AND COMMENTS:
 1. CONTOURS AND BASE MAP PROVIDED BY I3 ENGINEERING AND CONSULTING, LLC WITH ADDITIONAL CONTOURS OBTAINED FROM THE USGS NATIONAL ELEVATION DATASET. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ITS ACCURACY.
 2. DISCREPANCIES FOUND IN THE PROJECT LISTING CONDITIONS MUST BE REPORTED TO THE PROJECT ENGINEER/OWNER.
 3. NO GUARANTEE OR ASSURANCE IS GIVEN BY THE OWNER OR ENGINEER AS TO THE ACCURACY, COMPLETENESS, OR VALIDITY OF THE LISTING UTILITIES. CONTRACTOR TO PERFORM "CALL BEFORE YOU DIG" TO COORDINATE WITH UTILITY COMPANIES, AND LOCATE AND IDENTIFY ALL UTILITIES PRIOR TO CONSTRUCTION.
 4. DOMINION RESERVES THE RIGHT TO USE EITHER, OR BOTH, 12" COMPOST FILTER SOCK OR STANDARD SILT FENCE, FOR ANY APPLICATION IN WHICH EITHER OF THESE TWO CONTROL MEASURES ARE SPECIFIED.

SYM.	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.
△	03/10/17	NJB	ISSUED FOR REVIEW		



Environmental Resources Management	DRAWN: NJB	03/10/17
	CHECKED: -	-
	APP. FOR BID: -	-
	APP. FOR CONST.: -	-
	SCALE: AS NOTED	

Atlantic Coast Pipeline, LLC			
925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000			
TITLE: ATLANTIC COAST PIPELINE FAYETTEVILLE CONTRACTOR YARD AERIAL OVERVIEW			
DISTRICT: -	COUNTY: CUMBERLAND	STATE: NC	GROUP: -
			DWG. NO. 2 OF 7
			REV. 0

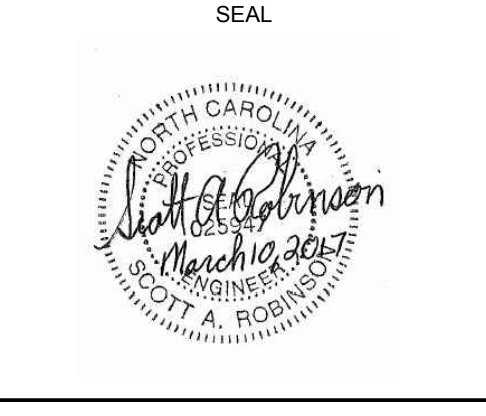


LEGEND

- LIMITS OF CONSTRUCTION (40.8 ACRES)
- LIMITS OF DISTURBANCE (39.4 ACRES)
- CONTRACTOR YARD LIMITS
- OVERHEAD ELECTRIC LINE
- UNDERGROUND GAS LINE
- FENCE
- DITCH
- STREAM
- CONTOUR
- WETLAND
- FUEL TANK AREA (25' x 250')
- TRAILER (24' x 60')
- STORAGE UNITS
- TOP SOIL SEGREGATION AREA
- GRAVEL AREA
- PROPOSED COMPOST FILTER SOCK OR SILT FENCE
- UTILITY POLE
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- GUY POLE
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- LINE MARKER
- POST
- TEST STAND
- TEMPORARY BENCH MARK
- FLOW ARROW
- ROCK CONSTRUCTION ENTRANCE (OR APPROVED ALT.)
- OUTLET PROTECTION
- PROPOSED CULVERT
- PROPOSED DIVERSION SWALE

GENERAL NOTES AND COMMENTS:
 1. CONTOURS AND BASE MAP PROVIDED BY I3 ENGINEERING AND CONSULTING, LLC WITH ADDITIONAL CONTOURS OBTAINED FROM THE USGS NATIONAL ELEVATION DATASET. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ITS ACCURACY.
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SYM.	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.
△	03/10/17	NJB	ISSUED FOR REVIEW		



Environmental Resources Management
 ERM
 DRAWN: NJB 03/10/17
 CHECKED: -
 APP. FOR CONST.: -
 SCALE: AS NOTED

Atlantic Coast Pipeline, LLC
 925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000
ATLANTIC COAST PIPELINE
FAYETTEVILLE CONTRACTOR YARD ESCP
 DISTRICT: - COUNTY: CUMBERLAND STATE: NC GROUP: - DWG. NO.: 3 OF 7 REV.: 0
 DIR/FILE: ACP\North Carolina

EROSION AND SEDIMENT CONTROL PLAN NARRATIVE

THE EROSION AND SEDIMENT (E&S) CONTROL MEASURES FOR THE PIPELINE CONSTRUCTION ACTIVITIES PRIMARILY CONSIST OF BUT ARE NOT LIMITED TO COMPOST FILTER SOCK, BELTED SILT RETENTION FENCE, SUPER SILT FENCE, SLOPE BREAKERS, AND TEMPORARY AND PERMANENT SEEDING AND MULCHING. BEST MANAGEMENT PRACTICES (BMP) SPECIFICATIONS FOR THE E&S CONTROL PLAN (E&SCP) ARE TO BE UTILIZED BY THE CONSTRUCTION CONTRACTOR ACCORDING TO THE PROVIDED PLAN.

GENERAL CONSTRUCTION NOTES:

- DISCHARGING SEDIMENT LADEN WATER WHICH WILL CAUSE OR CONTRIBUTE TO THE DEGRADATION OF A BENEFICIAL USE OF A WATER OF THE STATE FROM THE CONSTRUCTION SITE, A DEWATERING SITE, OR SEDIMENT BASIN/TRAP INTO ANY SURFACE WATER WITHOUT FILTRATION OR EQUIVALENT TREATMENT IS PROHIBITED.
- THE DISCHARGER SHALL AMEND THE EROSION & SEDIMENT CONTROL PLAN WHENEVER THERE IS A CHANGE IN THE CONSTRUCTION OR OPERATIONS, WHICH MAY EFFECT THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OR GROUNDWATER.
- DISCHARGES ORIGINATING FROM OFF-SITE SOURCES, WHICH FLOW THROUGH OR ACROSS THE AREAS DISTURBED BY CONSTRUCTION, MAY BE DIVERTED AROUND THE ACTIVE CONSTRUCTION AREA WHENEVER POSSIBLE.
- PERFORM PERMANENT OR TEMPORARY SOIL STABILIZATION WITHIN 7 DAYS WHEN SITE IS AT FINAL GRADE AND ON SITES THAT ARE NOT AT FINAL GRADE, BUT WILL REMAIN DORMANT FOR MORE THAN 14 DAYS.
- DUE TO VARYING SITE CONDITIONS, ADDITIONAL SEDIMENT CONTROL BMPs MAY BE NECESSARY BEYOND THE MEASURES SHOWN ON THE E&S CONTROL PLAN.
- STAGING AREAS, ASSEMBLY AREAS, TEMPORARY EQUIPMENT AND NON-HAZARDOUS MATERIAL STORAGE AREAS SHALL BE LOCATED OUTSIDE 100-YR FLOOD ZONES. HAZARDOUS MATERIAL STORAGE AREAS SHALL BE LOCATED AT LEAST 100 FEET BACK FROM SURFACE WATER BODIES.
- EQUIPMENT STORAGE IN CONSTRUCTION STAGING AREAS SHALL BE LOCATED A MINIMUM OF 100 FEET AWAY FROM WETLAND EDGE.
- AT MINIMUM, ALL BMPs ARE TO BE INSPECTED ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5-INCH PER 24-HOUR PERIOD DURING THE ENTIRE PROJECT. A WRITTEN REPORT MUST ALSO BE COMPLETED, DOCUMENTING EACH INSPECTION AND, IF NECESSARY, ANY REPAIR, REPLACEMENT OR MAINTENANCE ACTIVITY.
- THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING FACILITY SHOWN ON THE DRAWINGS, AND ANY OTHER WHICH IS NOT ON RECORD OR NOT SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL POTHOLE EXISTING UTILITIES AT THE POINTS OF CONNECTION AND ALL UTILITY CROSSINGS TO DETERMINE EXACT LOCATIONS PRIOR TO THE START OF WORK. ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND EXISTING CONDITIONS SHALL BE REPORTED TO THE ENGINEER OF RECORD IMMEDIATELY.
- ALL WORK WITHIN A PUBLIC RIGHT-OF-WAY SHALL BE COORDINATED WITH THE AGENCY HAVING JURISDICTION.
- ALL REQUIRED PERMITS MUST BE OBTAINED PRIOR TO STARTING WORK.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION, STABILIZATION AND MAINTENANCE OF ALL EXISTING AND PROPOSED SITE EROSION & SEDIMENTATION CONTROL DEVICES AND FACILITIES.
- THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING EROSION & SEDIMENTATION DEVICES AND SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE ENGINEER OF RECORD HARMLESS OF ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF ENGINEER OF RECORD.
- AS SITE SPECIFIC CONDITIONS MAY WARRANT, THE E&S PLAN MAY REQUIRE MINOR MODIFICATIONS TO ENSURE PROPER PROTECTION OF RECEIVING WATERS. THE RESPECTIVE PROJECT ENVIRONMENTAL INSPECTOR (EI) WILL IDENTIFY SITE SPECIFIC AREAS WHERE A CERTAIN BMP MODIFICATION(S) IS NECESSARY TO EITHER OMIT OR ENHANCE BMPs IN SUCH AREAS. THIS PROCESS ENTAILS THE EI TO IDENTIFY LOCATIONS WHERE BMPs WILL NEED TO BE ALTERED, SUBSTITUTED OR OMITTED AND CONTACT THE DOMINION GAS COMPLIANCE SPECIALIST TO REVIEW PROPOSED CHANGES. UPON REVIEW AND APPROVAL BY THE DOMINION COMPLIANCE SPECIALIST, THE EI WILL REDLINE, DATE, AND SIGN THE E&S DRAWING(S) DEPICTING THE REDLINE CHANGE(S). ONCE THIS PROCESS IS COMPLETED, THE EI WILL NOTIFY NCDEQ OF SUCH MINOR MODIFICATION REDLINE AMENDMENTS AS REQUIRED BY THE GENERAL PERMIT.

BMP INSTALLATION AND REMOVAL SEQUENCE

CONSTRUCTION MUST BE IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. THIS SEQUENCE IS DESIGNED TO MINIMIZE SOIL EROSION AND SEDIMENTATION. THE CONTRACTOR MAY DEVIATE SLIGHTLY FROM THE STAGING OF PERMANENT SITE IMPROVEMENTS, BUT NO DEVIATION FROM THE RELATIVE ORDER OF EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE ALLOWED.

THE STAGING OF EARTHMOVING ACTIVITIES FOR THIS PROJECT IS A GENERAL DESCRIPTION OF THE WORK REQUIRED. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH COMPANY STANDARDS, THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY REGULATIONS AND ALL OTHER APPLICABLE FEDERAL, STATE OR LOCAL REQUIREMENTS.

THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN INCLUDING THE SOIL EROSION CONTROL DRAWINGS AND NARRATIVE SHALL BE AVAILABLE ON SITE AT ALL TIMES DURING EARTH DISTURBANCE.

- STAKE AND/OR FLAG ALL LIMITS OF DISTURBANCE FOR CONSTRUCTION ACTIVITIES, CLEARLY IDENTIFYING WETLAND AND STREAM EDGES. INSTALL SIGNS TO DESIGNATE THE AREA TO IDENTIFY IMPORTANT PROJECT ATTRIBUTES SUCH AS WETLAND/STREAM BOUNDS, EXCLUSION AREAS ETC.
- INSTALL ROCK CONSTRUCTION ENTRANCES IMMEDIATELY BEFORE INITIAL DISTURBANCES. THE ROCK CONSTRUCTION ENTRANCES TO BE UNDERLAIN BY FILTER FABRIC. ALL CONSTRUCTION TRAFFIC SHOULD USE ONLY ROCK CONSTRUCTION ENTRANCE FOR INGRESS AND EGRESS. ALL MUD OR SEDIMENT TRACKED ONTO THE EXISTING ROADWAY SHALL BE REMOVED BY THE CONTRACTOR AS NECESSARY.
- INSTALL SILT FENCE AND COMPOST FILTER SOCKS AS NECESSARY ALONG THE ACCESS ROADS TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING DOWNSTREAM WATER BODIES. MAINTAIN THE ACCESS ROADS AS REQUIRED, ASSOCIATED DITCHES, AND NECESSARY OUTLET PROTECTION.
- PRIOR TO AND SIMULTANEOUS WITH GRADING AND EXCAVATION, INSTALL REMAINING EROSION CONTROL DEVICES (ECD) SHOWN ON THE PLANS.
- COMMENCE GRADING AND ASSOCIATED CUT AND FILL SLOPES. THE EARTH MOVING ACTIVITY SHALL BEGIN IN AREA OF CUT SO THAT THE CUTS CAN BE PLACED IN AREAS OF FILL. REMOVE TOPSOIL FROM AREAS TO RECEIVE FILL PRIOR TO FILLING.
- FINALIZE UTILITY INSTALLATION AND ROADWAY GRADES AND PLACE TOPSOIL ON THE CUT AND FILL AREAS. STABILIZE CUT AND FILL SLOPES, AFTER PLACEMENT OF STOCKPILED TOPSOIL ON EXCAVATED SLOPES, AND AS DIRECTED.
- RE-DISTRIBUTION OF WET SEDIMENT FROM DEVICES AND FACILITIES SHALL ONLY BE PERMITTED UPHILL OF AN EFFECTIVE SEDIMENT CONTROL DEVICE OR FACILITY. SEDIMENT LADEN RUNOFF SHALL NOT BE ALLOWED TO FLOW DIRECTLY INTO WATER BODIES.
- ANY EXPOSED TOPSOIL PILES SHOULD BE STABILIZED & SEEDED PER THE PERMIT REGULATIONS, AND BY TABLES SHOWN ON THE APPROVED EROSION CONTROL PLANS AND MULCHED WITH STRAW AS SPECIFIED BY THE PROJECT OWNER.
- UPON MINIMUM 70% UNIFORM PERENNIAL VEGETATIVE GROWTH, REMOVE TEMPORARY SEDIMENT CONTROLS. REMOVE ACCUMULATED SEDIMENTS WITHIN THE TRAPS, RE-GRADE TRAPS TO FINAL CONTOURS. STABILIZE SITE PER THE PLANS.

SEQUENCE OF CONSTRUCTION

- A PRE-CONSTRUCTION MEETING SHOULD TAKE PLACE PRIOR TO START OF CONSTRUCTION ACTIVITIES.
- BEGIN CLEARING AND GRUBBING SITE. CLEAR AND GRUB ONLY THOSE AREAS NECESSARY FOR INSTALLATION OF THE EROSION CONTROL MEASURES.
- INSTALL SILT FENCE AS SHOWN ON THE PLANS.
- ONCE EROSION CONTROL MEASURES HAVE BEEN INSTALLED AND PRIOR TO SEDIMENT REMOVAL ACTIVITIES, THE SITE IS TO BE INSPECTED BY NC DENR - LAND QUALITY.
- GRADE SITE ACCORDING TO CONTRACT DOCUMENTS. MAINTAIN EROSION CONTROL DEVICES AS NEEDED.
- INSTALL STORM DRAINAGE AS INDICATED ON PLANS.
- GRASS OR OTHERWISE STABILIZE ALL AREAS AS THEY ARE BROUGHT TO FINAL GRADES.
- THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. INSPECT AND REPAIR MEASURES AFTER EACH RAINFALL AND AS NEEDED THROUGHOUT THE PROJECT.
- CONTRACTOR TO LEAVE ALL EROSION CONTROL DEVICES IN PLACE AT THE CONCLUSION OF THIS CONTRACT. CONTRACTOR IS TO CLEAN-OUT, REPAIR AND GRASS STABILIZE ALL DENUDED AREAS. ALL AREAS WILL BE RETURNED TO THE STATE OF EXISTING CONDITIONS PRIOR TO CONTRACT AS A MINIMUM.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTAIN SEDIMENT ONSITE. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE ENGINEER.
- ALL EROSION CONTROL MEASURES TO BE IN ACCORDANCE WITH THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN REQUIREMENTS AND LAND DEVELOPMENT STANDARDS.

MAINTENANCE SCHEDULE

AFTER FULL REVEGETATION HAS BEEN ACHIEVED, ALL BMPs WILL BE REMOVED AND ANY LAND DISTURBED BY REMOVAL WILL BE PERMANENTLY STABILIZED, UNLESS OTHERWISE SPECIFIED, ALL MAINTENANCE MUST BE COMPLETED IMMEDIATELY AFTER AN INSPECTION IDENTIFIES THAT A BMP IS NOT FUNCTIONING AS REQUIRED.

- THE ROW AND ESC DEVICES WILL BE INSPECTED DAILY AT THE ACTIVE CONSTRUCTION SITE AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS FOR ACTIVELY DISTURBED AREAS, 14 CALENDAR DAYS FOR RESTORED AREAS, AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN ONE-HALF-INCH PER 24-HOUR PERIOD.
- SEDIMENT MUST BE REMOVED WHERE ACCUMULATION REACHES ONE-HALF THE ABOVE GROUND HEIGHT OF THE CONTROL MEASURE.
- EROSION CONTROL MEASURES, WHICH HAVE BEEN UNDERMINED OR TOPPED, SHALL BE REPAIRED IMMEDIATELY.
- OTHER REQUIRED REPAIRS OR MAINTENANCE SHALL BE MADE IMMEDIATELY.
- TEMPORARY AND PERMANENT E&S CONTROL BMPs SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.

MATERIAL WASTE HANDLING AND RECYCLING

- SOLID WASTE DISPOSAL SHALL BE HANDLED THROUGH ONE OF THE LOCAL LICENSED WASTE MANAGEMENT PROVIDERS AND PERMITTED DISPOSAL FACILITIES. THE CONTRACTOR WILL PROVIDE MOBILE AND COVERED WASTE RECEPTACLES AS NEEDED ALONG THE PROJECT LIMITS. CONTRACTOR SHALL ALSO PROVIDE A COVERED JUMPSTER FOR CONSOLIDATION OF WASTE FOR PICK UP AND DISPOSAL FOR THE DURATION OF THE PROJECT. ALL SOLID WASTE SHALL BE DISPOSED OF AT A LICENSED PERMITTED MUNICIPAL LANDFILL.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY PERMITS AND DOR DISPOSAL FEES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO ASSURE THAT ALL MATERIALS AREA HANDLED AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS, RULES, AND REGULATIONS, INCLUDING BUT NOT LIMITED TO THOSE ISSUED BY THE ENVIRONMENTAL PROTECTION AGENCY, NCDEQ, AND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.
- CONTRACTOR SHALL PRACTICE GOOD HOUSEKEEPING FOR THE DURATION OF THE PROJECT INCLUDING THE ROUTINE REMOVAL AND DISPOSAL OF SOLID WASTE.
- CONTRACTOR SHALL KEEP RECORDS OF PROPER SOLID WASTE DISPOSAL AND PROVIDE COPIES TO THE EI.

SEEDING AND MULCHING

SEE SEED MIXES, SOIL AMENDMENTS, AND MULCH SPECIFICATIONS SPECIFIED IN THE ACP RESTORATION AND REHABILITATION PLAN.

- SEEDBED PREPARATION: AREAS TO BE SEEDED SHALL BE DISKED TO A DEPTH OF 4-IN TO 6-IN WHENEVER FEASIBLE, AND SMOOTHLY GRADED.
- IN TOPSOILED AREAS, SOIL TO BE REDISTRIBUTED EVENLY AND STABILIZED PRIOR TO SEEDING.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 21 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS PERMANENTLY CEASED.
- WHERE THE INITIATION OF STABILIZATION MEASURES WITHIN 7 DAYS AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS CONDITIONS ALLOW.
- WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 21 DAYS FROM WHEN ACTIVITIES CEASED (E.G., THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY HALTED IS LESS THAN 21 DAYS), THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED.
- AREAS WHERE THE SEED HAS FAILED TO GERMINATE ADEQUATELY (UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70%) WITHIN 30 DAYS, SEEDING AND MULCHING MUST BE RE-SEEDED IMMEDIATELY, OR AS SOON AS WEATHER PERMITS.

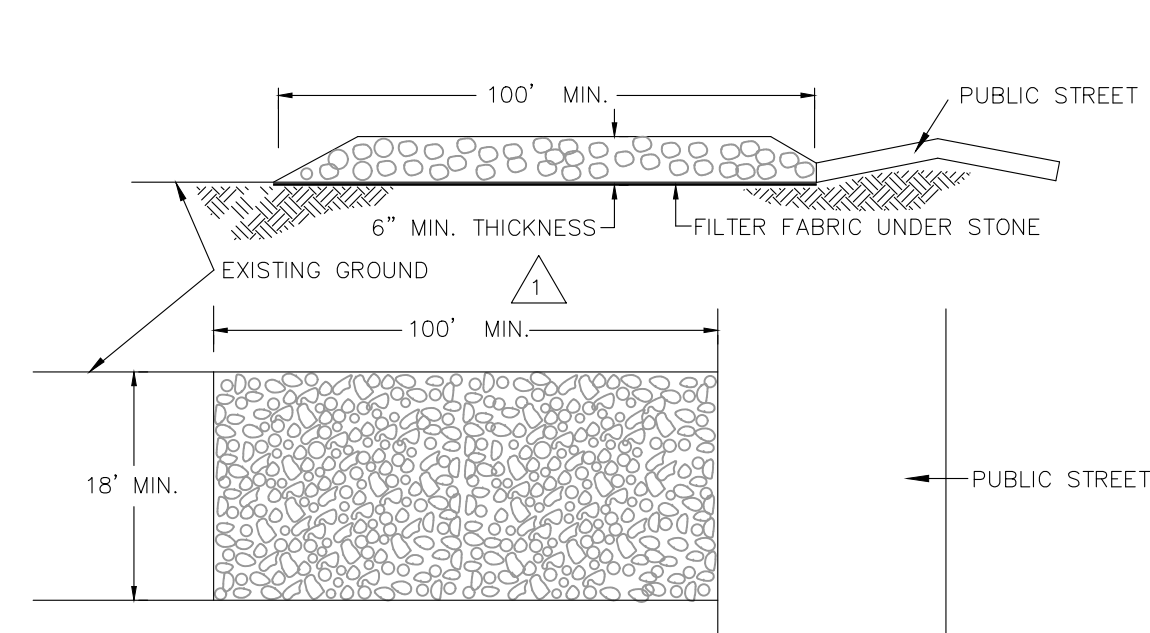
POLLUTANT CONTROLS

- REPORTABLE SPILLS OCCURRING DURING CONSTRUCTION, OPERATION AND MAINTENANCE ARE TO BE REPORTED IMMEDIATELY TO THE MONITORING CENTER AT 1-800-835-7191. DOMINION'S ENVIRONMENTAL HEALTH AND SAFETY DEPARTMENT WILL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE AGENCIES, EXCEPT AS PROVIDED FOR BELOW.
- ANY FACILITY OWNER/OPERATOR WHO IS SUBJECT TO THE SPCC RULE MUST COMPLY WITH THE REPORTING REQUIREMENTS FOUND IN 40 CFR 112.4. A DISCHARGE MUST BE REPORTED TO THE EPA REGIONAL ADMINISTRATOR (RA) WHEN THERE IS A DISCHARGE OF:
 - MORE THAN 1,000 GALLONS OF OIL IN A SINGLE DISCHARGE TO NAVIGABLE WATERS OR ADJOINING SHORELINES.
 - MORE THAN 42 GALLONS OF OIL IN EACH OF TWO DISCHARGES TO NAVIGABLE WATERS OR ADJOINING SHORELINES OCCURRING WITHIN ANY TWELVE-MONTH PERIOD.
- IF A DOMINION REPRESENTATIVE CANNOT BE PROMPTLY CONTACTED AND THE SPILL HAS IMPACTED WATER, THE PERSON DISCOVERING THE SPILL OR RELEASE WILL CONTACT THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 AND REPORT THE RELEASE. THAT PERSON WILL CONTINUE CALLING DOMINION UNTIL A REPRESENTATIVE IS REACHED.

STABILIZATION TIMEFRAMES

PERIMETER DIKES, SWALES, DITCHES, SLOPES	7 DAYS
HIGH QUALITY WATER (HQW) ZONES	7 DAYS
SLOPES STEEPER THAN 3:1	7 DAYS
SLOPES 3:1 OR FLATTER	14 DAYS
ALL OTHER AREAS (Slopes flatter than 4:1)	14 DAYS

GENERAL NOTES AND COMMENTS:	SYM.	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.			<h2 style="margin: 0;">Atlantic Coast Pipeline, LLC</h2> <p style="margin: 0;">925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000</p>																		
									TITLE: ATLANTIC COAST PIPELINE EROSION AND SEDIMENT CONTROL NOTES																		
									DRAWN:	JR	03/09/2017	CHECKED:	SL	03/09/2017	DISTRICT:	-	COUNTY:	-	STATE:	NC	GROUP	-	DWG. NO.	4 OF 7	REV.	0	
									APP. FOR BID:			APP. FOR CONST.:			DIR/FILE:	ACPNorth Carolina/Details											
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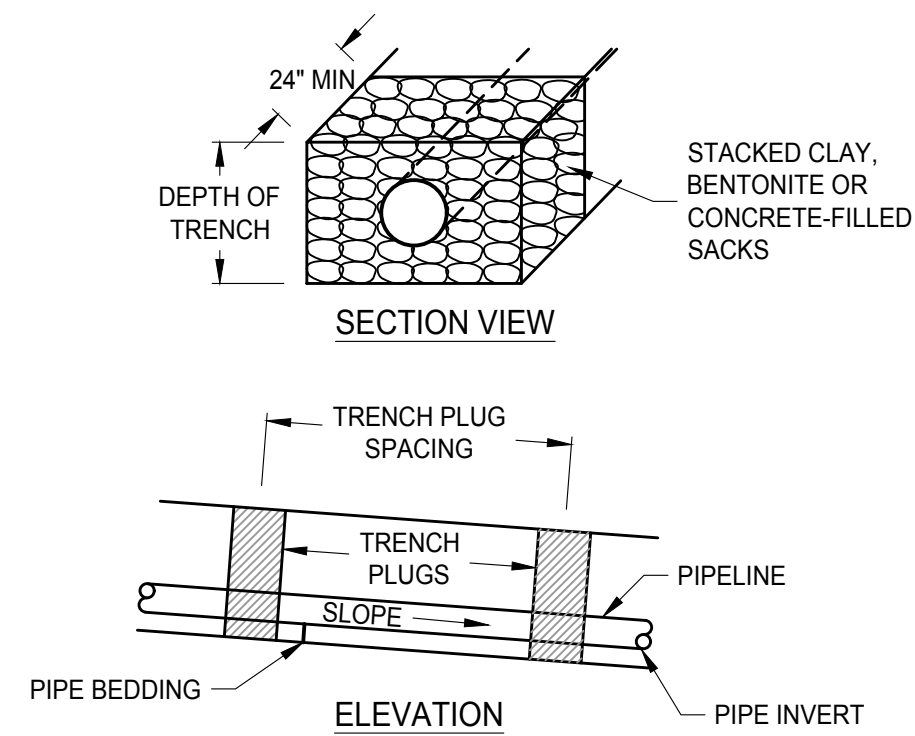


GENERAL NOTES:

1. A STABILIZED PAD OF WASHED STONE SHALL BE LOCATED WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC STREET.
2. STONE TO BE SURGE STONE OR 2"-3" RAILROAD BALLAST.
3. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS OR EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE, AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
4. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC STREETS MUST BE REMOVED IMMEDIATELY.
5. WHEN NECESSARY, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING A PUBLIC STREET. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN.
6. FILTER FABRIC SHALL BE MIRAFI 500 OR EQUIVALENT.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE

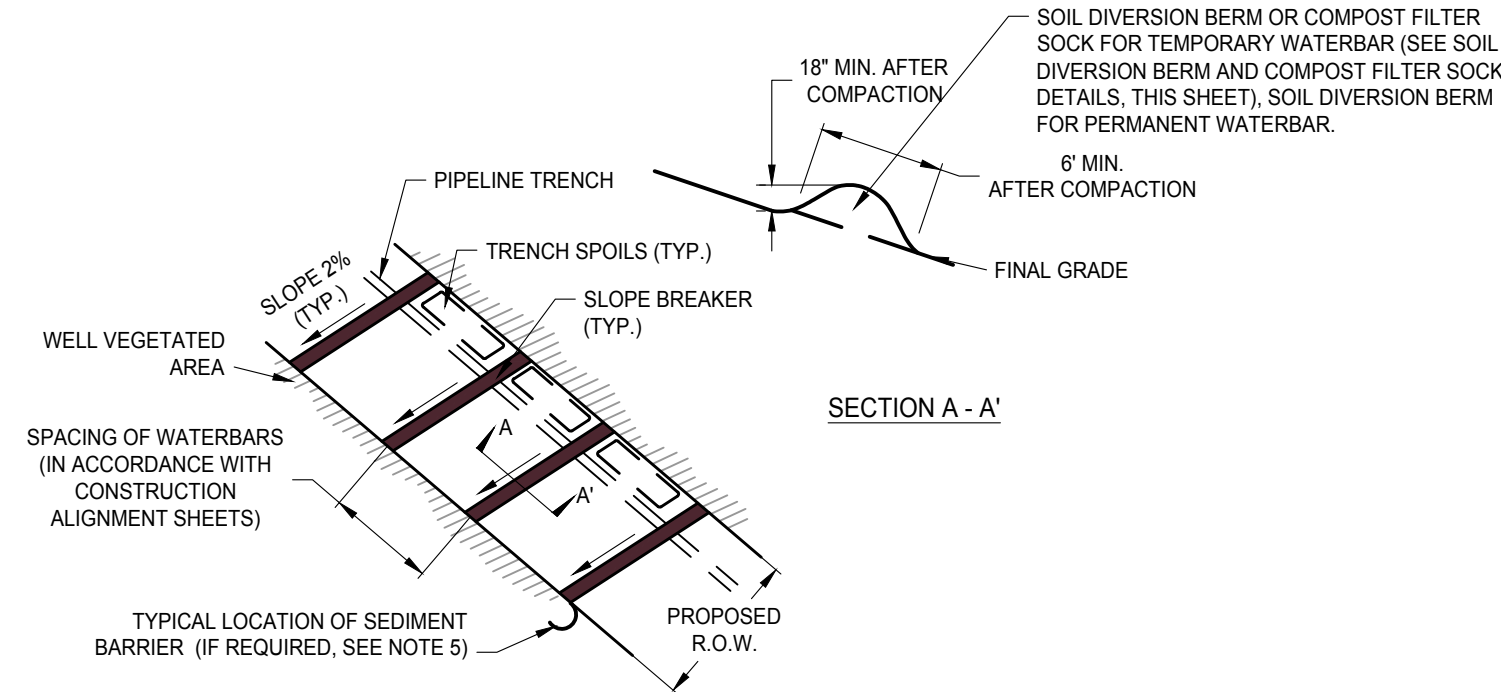


CONSTRUCTION NOTES:

1. TRENCH PUGS ARE REQUIRED AT ALL STREAM, RIVER, WETLAND, OR OTHER WATER BODY CROSSINGS REGARDLESS OF TRENCH SLOPE.
2. TOPSOIL MAY NOT BE USED TO FILL SACKS.
3. TRENCH PUG LOCATION AND SPACING SHALL BE IN ACCORDANCE WITH CONSTRUCTION ALIGNMENT SHEETS, OR AS OTHERWISE DIRECTED BY THE E.I.

TRENCH PLUG DETAIL

NOT TO SCALE

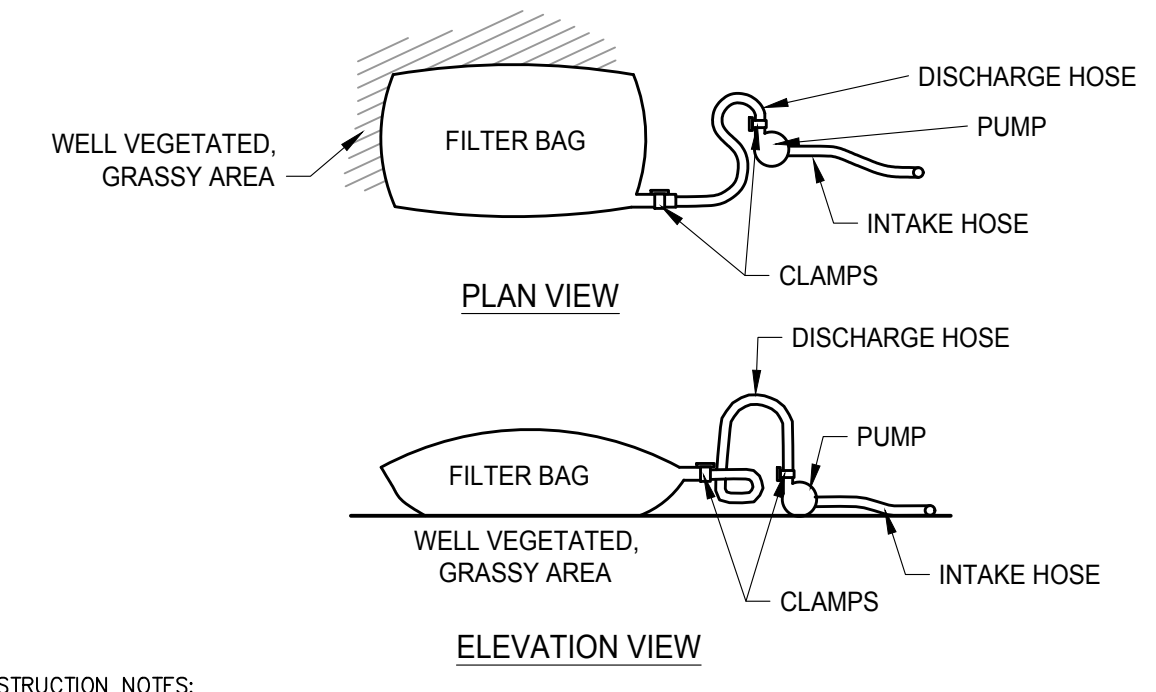


NOTES:

1. TEMPORARY SLOPE BREAKERS SHALL BE INSTALLED UPON INITIAL DISTURBANCE OF THE SOIL. PERMANENT WATERBARS SHALL BE INSTALLED AFTER THE TRENCH HAS BEEN BACKFILLED.
2. WATERBARS SHALL NOT DISCHARGE TO THE OPEN TRENCH AND SHOULD BE ALIGNED SO THAT DISCHARGES DO NOT FLOW BACK ONTO THE RIGHT-OF-WAY. RUNOFF SHALL BE DIRECTED TO THE DOWNSLOPE SIDE OF THE DISTURBED AREA.
3. SLOPES GREATER THAN 30% MAY REQUIRE THE INSTALLATION OF A PARALLEL COLLECTION DITCH AND SEDIMENT TRAP AT THE BOTTOM OF THE SLOPE IN PLACE OF WATERBARS.
4. WATERBARS MUST BE INSTALLED AT ALL PUBLIC ROADWAY AND RAILROAD CUT SLOPES.
5. IF A SUITABLE VEGETATIVE FILTER STRIP DOES NOT EXIST AT THE POINT OF DISCHARGE FOR ANY WATERBAR, A SEDIMENT BARRIER SHALL BE PROVIDED (E.G., FILTER SOCK, SILT FENCE, OR SOIL DIVERSION BERM, SEE DETAILS, THIS SHEET)

RIGHT-OF-WAY DIVERSION (WATERBAR) DETAIL

NOT TO SCALE

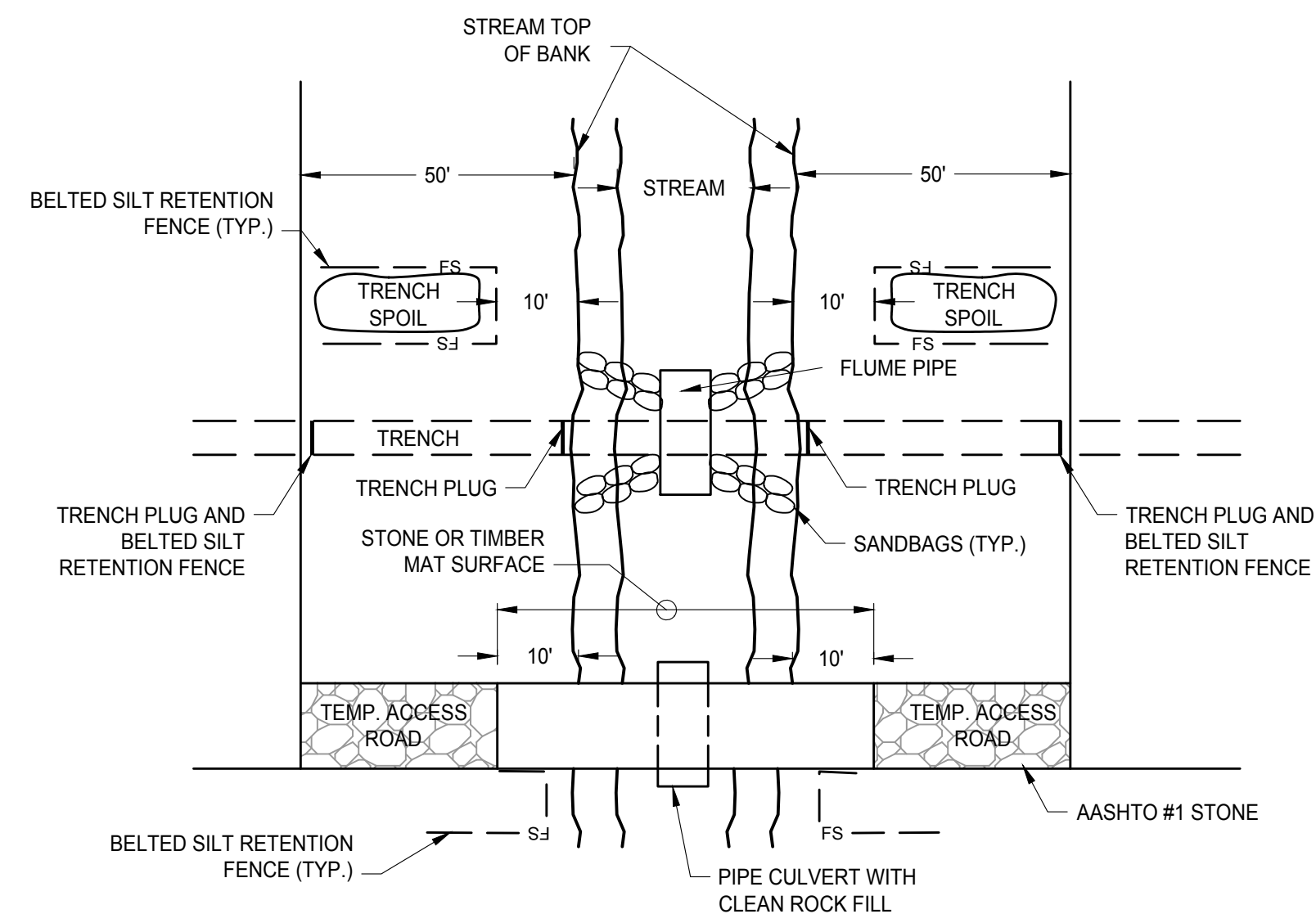


CONSTRUCTION NOTES:

1. FILTER BAGS MAY BE USED TO FILTER WATER PUMPED FROM DISTURBED AREAS PRIOR TO DISCHARGING TO WATERS OF THE COMMONWEALTH. THEY MAY ALSO BE USED TO FILTER WATER PUMPED FROM THE SEDIMENT STORAGE AREAS OF SEDIMENT BASINS.
2. THE PUMPING RATE SHOULD BE DETERMINED BY THE CONTRACTOR BASED UPON THE ACTUAL AMOUNT OF GROUNDWATER ENCOUNTERED DURING CONSTRUCTION. PUMPING RATES WILL VARY DEPENDING ON THE SIZE OF THE FILTER BAG AND THE TYPE AND AMOUNT OF SEDIMENT DISCHARGED TO THE BAG.
3. FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS.
4. A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES MUST BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED.
5. BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREAS AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE FLOW PATH SHALL BE PROVIDED. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5:K.
6. THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED.
7. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHOULD BE FLOATING AND SCREENED.

FILTER BAGS DETAIL

NOT TO SCALE

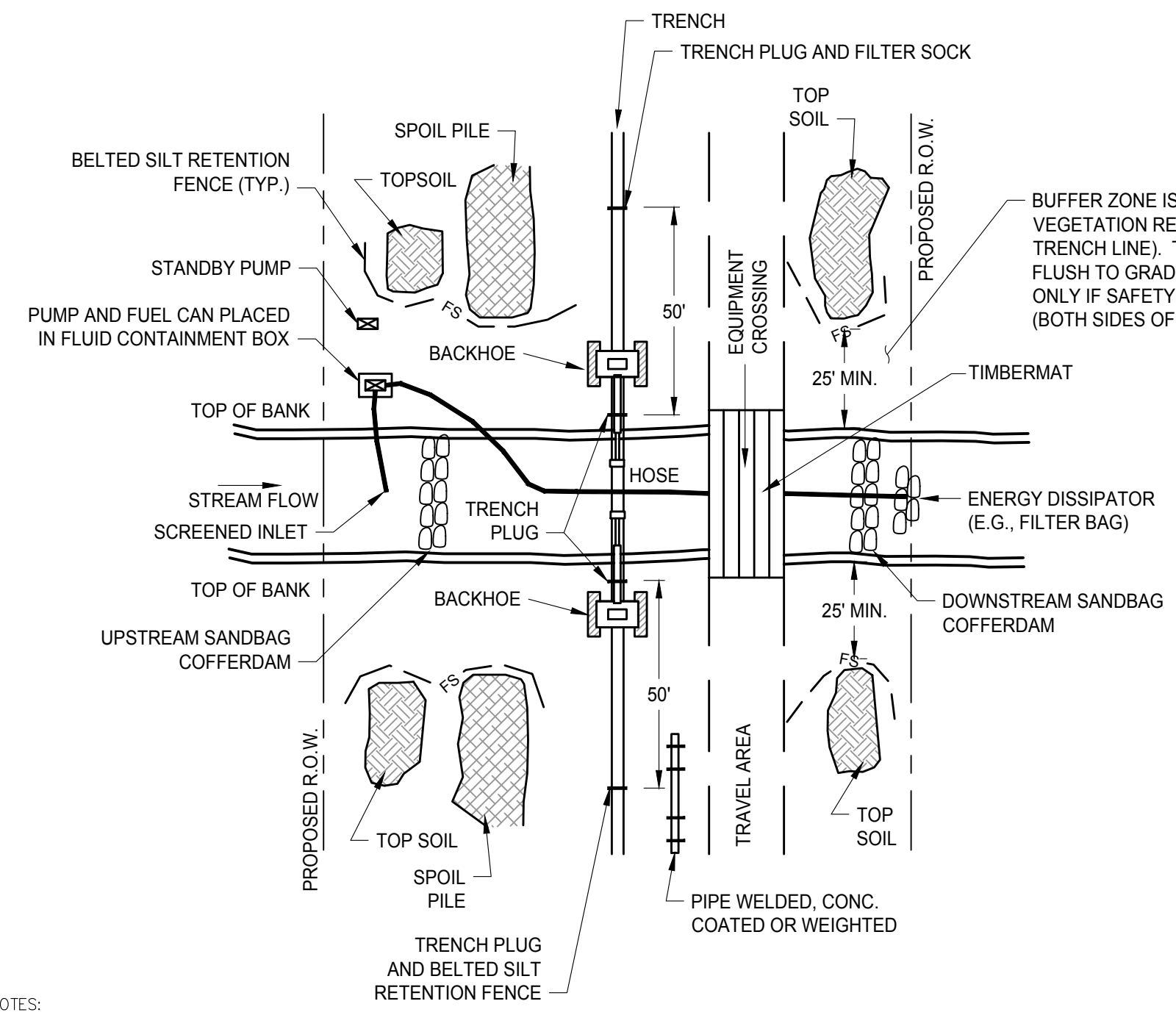


NOTES:

1. GRUBBING SHALL NOT TAKE PLACE WITHIN 50 FT OF TOP OF BANK UNTIL ALL MATERIALS REQUIRED TO COMPLETE THE CROSSINGS ARE ON SITE AND PIPE IS READY FOR INSTALLATION.
 2. PIPE CULVERT FOR FLUME AND ACCESS ROAD MAY BE ONE CONTINUOUS PIPE.
 3. WATER ACCUMULATING WITHIN THE WORK AREA SHALL BE PUMPED TO A PUMPED WATER FILTER BAG PRIOR TO DISCHARGING INTO SURFACE WATER.
 4. ALL EXCESS MATERIAL SHALL BE IMMEDIATELY REMOVED FROM THE STREAM CROSSING AREA.
 5. ALL DISTURBED AREAS WITHIN 50 FEET OF TOP OF BANK SHALL BE BLANKETED OR MATTED WITHIN 24 HOURS OF INITIAL DISTURBANCE FOR MINOR STREAMS OR 48 HOURS OF INITIAL DISTURBANCE FOR MAJOR STREAMS, UNLESS OTHERWISE AUTHORIZED.
- STREAM CROSSING RESTORATION:
1. ONCE THE SOIL EROSION AND SEDIMENT CONTROL MEASURES AND THE REQUIRED WATER FLOW CONTROL MEASURES ARE IN PLACE, CONTRACTOR CAN PROCEED WITH TRENCH EXCAVATION.
 2. ALL EXCAVATED MATERIALS THAT WILL BE USED AS BACKFILL SHALL BE PLACED IN A TEMPORARY STOCKPILE LOCATED OUTSIDE THE CHANNEL. CHANNEL BED MATERIAL SHALL BE SEGREGATED FOR LATER USE. A SEDIMENT BARRIER SHALL BE INSTALLED BETWEEN THE STOCKPILE AND STREAM CHANNEL.
 3. COMPLETE TRENCH EXCAVATION FOR PIPELINE CONSTRUCTION, PLACE PIPELINE AND BACKFILL.
 4. STREAM BANKS SHALL BE RESTORED TO PRE-CONSTRUCTION CONFIGURATIONS, AS MUCH AS POSSIBLE, AND STABILIZED.
 5. RE-SEED RESTORED STREAM BANKS USING SEED MIXTURES AS SPECIFIED HEREIN.
 6. RESTORED STREAM BANKS AND ADJACENT DISTURBED AREAS TO BE STABILIZED WITH APPROVED EROSION CONTROL BLANKET USING MANUFACTURER RECOMMENDED STAPLES AND PATTERNS.
 7. PLACE SALVAGED BED MATERIAL ON THE CHANNEL BED IN THE DISTURBED AREA.

DRY DITCH CROSSING 1: FLUME CROSSING DETAIL

NOT TO SCALE

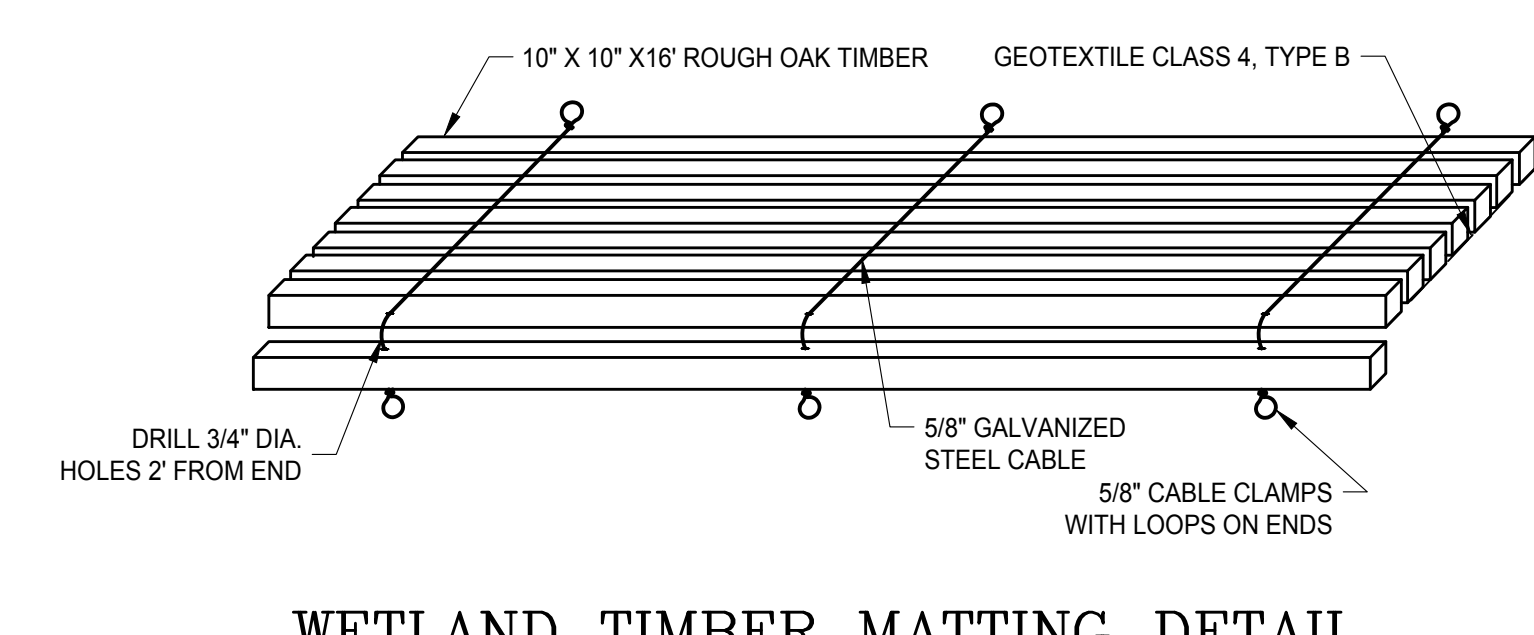


NOTES:

1. USE DAM AND PUMP METHOD ON NARROW WATERCOURSES WITH LIMITED STREAM FLOW TO PREVENT SEDIMENTATION AND INTERRUPTION OF STREAM FLOW DURING CROSSING CONSTRUCTION. IF FISH PASSAGE IS A CONCERN, THIS METHOD IS NOT APPROPRIATE.
 2. SCHEDULE CONSTRUCTION DURING PERIOD OF LOW STREAM FLOW.
 3. SET UP PUMP AND HOSE AS SHOWN, OR USE OTHER PRACTICAL ALTERNATIVES. PUMP SHOULD HAVE TWICE THE PUMPING CAPACITY OF ANTICIPATED FLOW. HAVE STANDBY PUMP ON SITE.
 4. INSTALL UPSTREAM DAM COMPOSED OF SANDBAGS OR CLEAN GRAVEL WITH PLASTIC UNDERLINING. INSTALL DOWNSTREAM DAM IF REQUIRED TO KEEP STREAMBED DRY.
 5. EXCAVATE TRENCH AND INSTALL PIPE BY LOWERING IN UNDER HOSE. MOVE HOSE AS REQUIRED OR DISCONNECT IF TEMPORARY FLOW BLOCKAGE IS ACCEPTABLE.
 6. DISMANTLE DOWNSTREAM DAM, THEN UPSTREAM DAM. KEEP PUMP RUNNING TO MAINTAIN FLOW.
 7. MONITOR DAM AND PUMP FOR PROPER OPERATION THROUGHOUT THE CROSSING INSTALLATION.
 8. IN HIGH QUALITY (HQ) OR EXCEPTIONAL VALUE (EV) STREAMS, USE 12" FILTER SOCK IN PLACE OF SILT FENCE.
 9. ENSURE DISTURBED AREAS ARE SEEDED AND MULCHED USING SEED MIXTURES AS SPECIFIED IN THE INCLUDED TABLE.
- STREAM CROSSING RESTORATION:
1. ONCE THE SOIL EROSION AND SEDIMENT CONTROL MEASURES AND THE REQUIRED WATER FLOW CONTROL MEASURES ARE IN PLACE, CONTRACTOR CAN PROCEED WITH TRENCH EXCAVATION.
 2. ALL EXCAVATED MATERIALS THAT WILL BE USED AS BACKFILL SHALL BE PLACED IN A TEMPORARY STOCKPILE LOCATED OUTSIDE THE CHANNEL. CHANNEL BED MATERIAL SHALL BE SEGREGATED FOR LATER USE. A SEDIMENT BARRIER SHALL BE INSTALLED BETWEEN THE STOCKPILE AND STREAM CHANNEL.
 3. COMPLETE TRENCH EXCAVATION FOR PIPELINE CONSTRUCTION, PLACE PIPELINE AND BACKFILL.
 4. STREAM BANKS SHALL BE RESTORED TO PRE-CONSTRUCTION CONFIGURATIONS, AS MUCH AS POSSIBLE, AND STABILIZED.
 5. RE-SEED RESTORED STREAM BANKS AT THE RATE OF 15 LBS./ACRE WITH "RIPARIAN BUFFER MIX" BY ERNST CONSERVATION SEEDS (MIX ERNMIX-178) OR APPROVED EQUAL.
 6. RESTORED STREAM BANKS AND ADJACENT DISTURBED AREAS TO BE STABILIZED WITH APPROVED EROSION CONTROL BLANKET USING MANUFACTURER RECOMMENDED STAPLES AND PATTERNS.
 7. PLACE SALVAGED BED MATERIAL ON THE CHANNEL BED IN THE DISTURBED AREA.

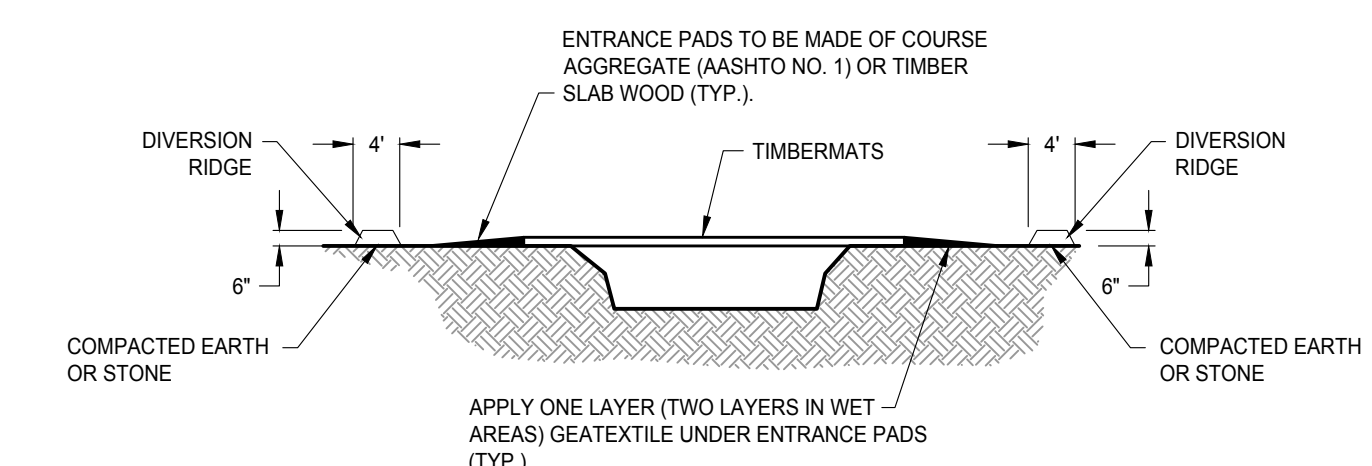
DRY DITCH CROSSING 2: DAM AND PUMP DETAIL

NOT TO SCALE



WETLAND TIMBER MATTING DETAIL

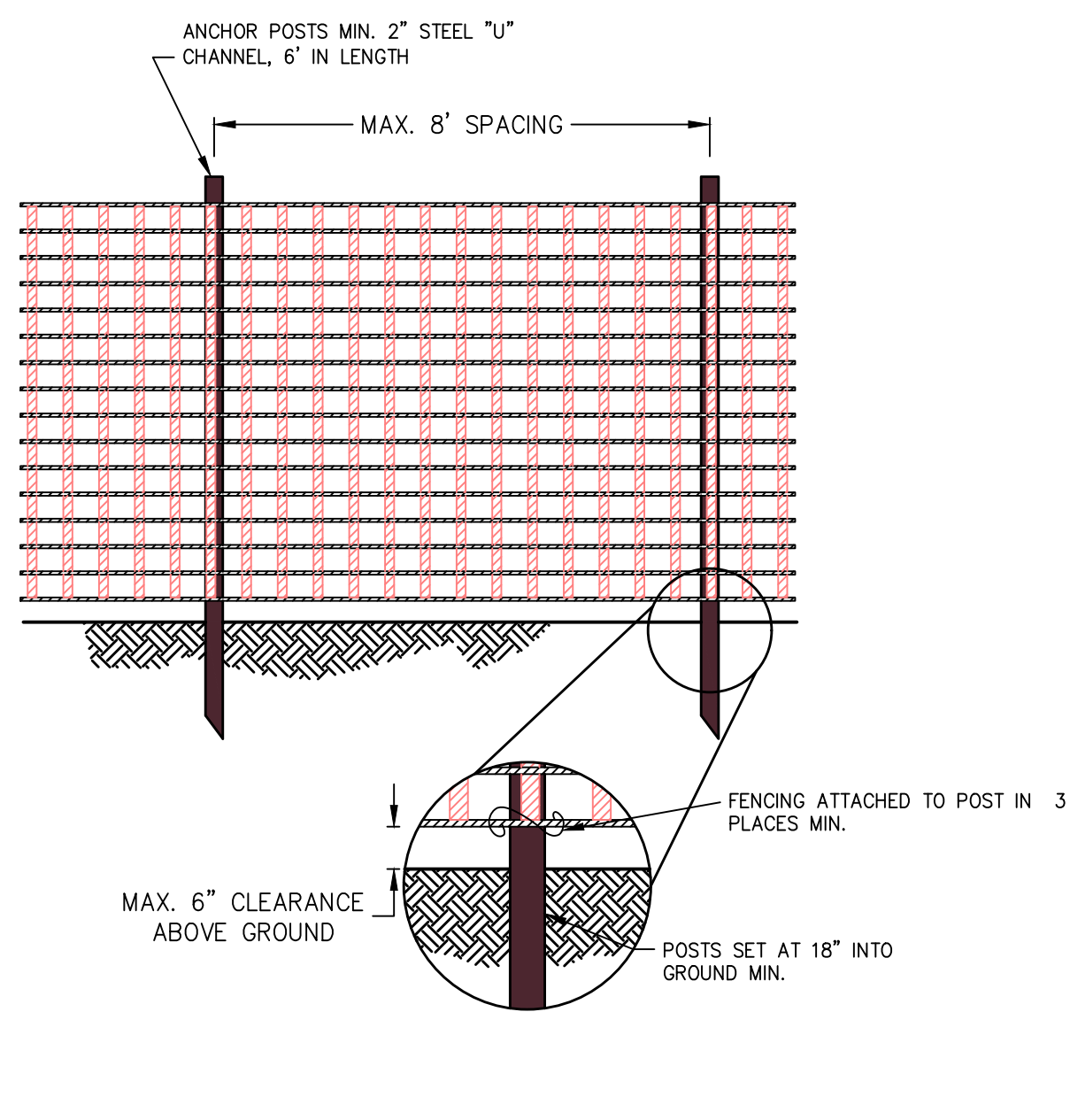
NOT TO SCALE



TEMPORARY BRIDGE CROSSING

NOT TO SCALE

GENERAL NOTES AND COMMENTS:			REVISION INFORMATION			PROJECT/TASK	APP.					<p>Atlantic Coast Pipeline, LLC 925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000</p>			
SYM.	DATE	BY							DRAWN: JR 03/09/2017 CHECKED: SL 03/03/2017 APP. FOR BID: APP. FOR CONST.: SCALE: AS NOTED	ATLANTIC COAST PIPELINE EROSION AND SEDIMENT CONTROL NOTES DISTRICT: COUNTY: STATE: NC GROUP: DWG. NO.: 5 OF 7 REV.: 0					
ISSUED FOR PERMITTING															



- NOTES:
- PROTECTION BARRIER SHALL BE 4' HIGH, CONSTRUCTED OF DURABLE AND HIGHLY VISIBLE MATERIAL (PLASTIC ORANGE CONSTRUCTION FENCE AND SNOW FENCE MAY BE USED).
 - PROTECTION BARRIERS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE WORK AT THE SITE.
 - ADDITIONAL WARNING SIGNS SHOULD ALSO BE PLACED ON THE FENCING AND IN APPROPRIATE AREAS NEAR THE WORK ZONE.

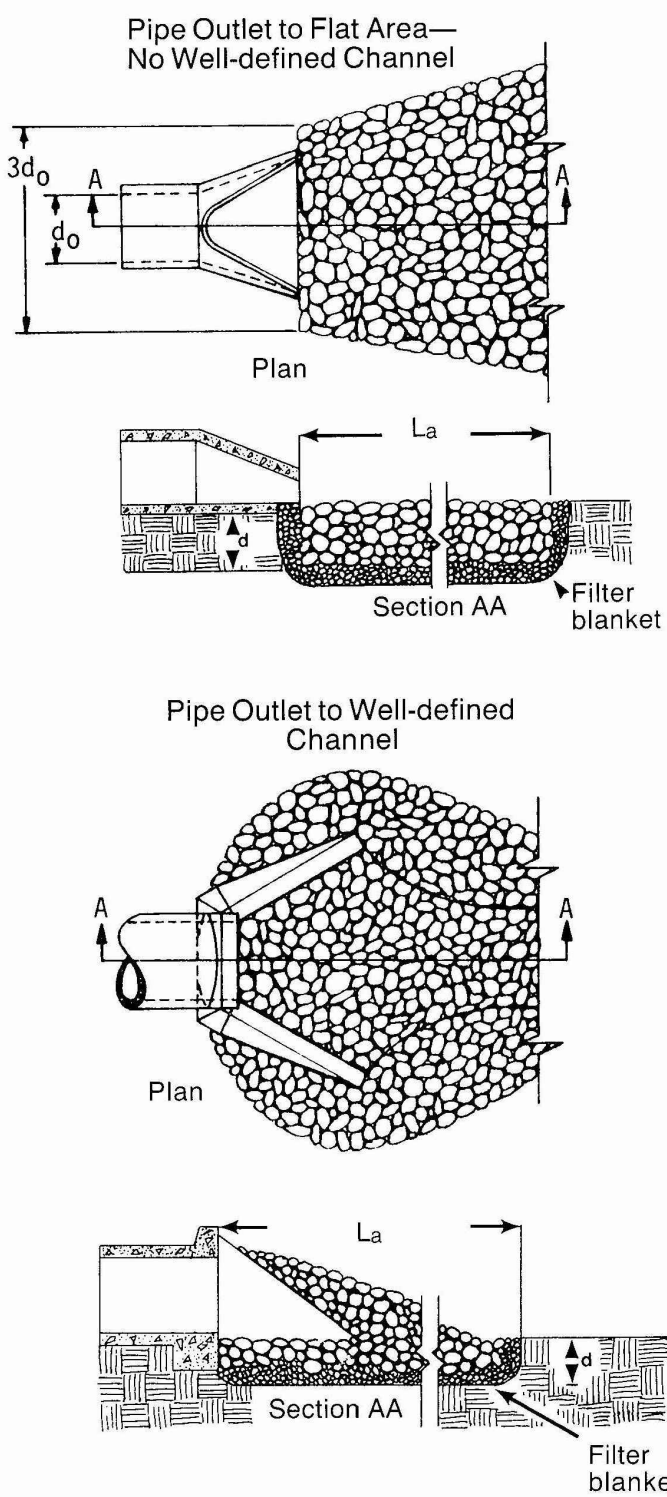
CONSTRUCTION FENCE DETAIL
NOT TO SCALE

INTRODUCTION

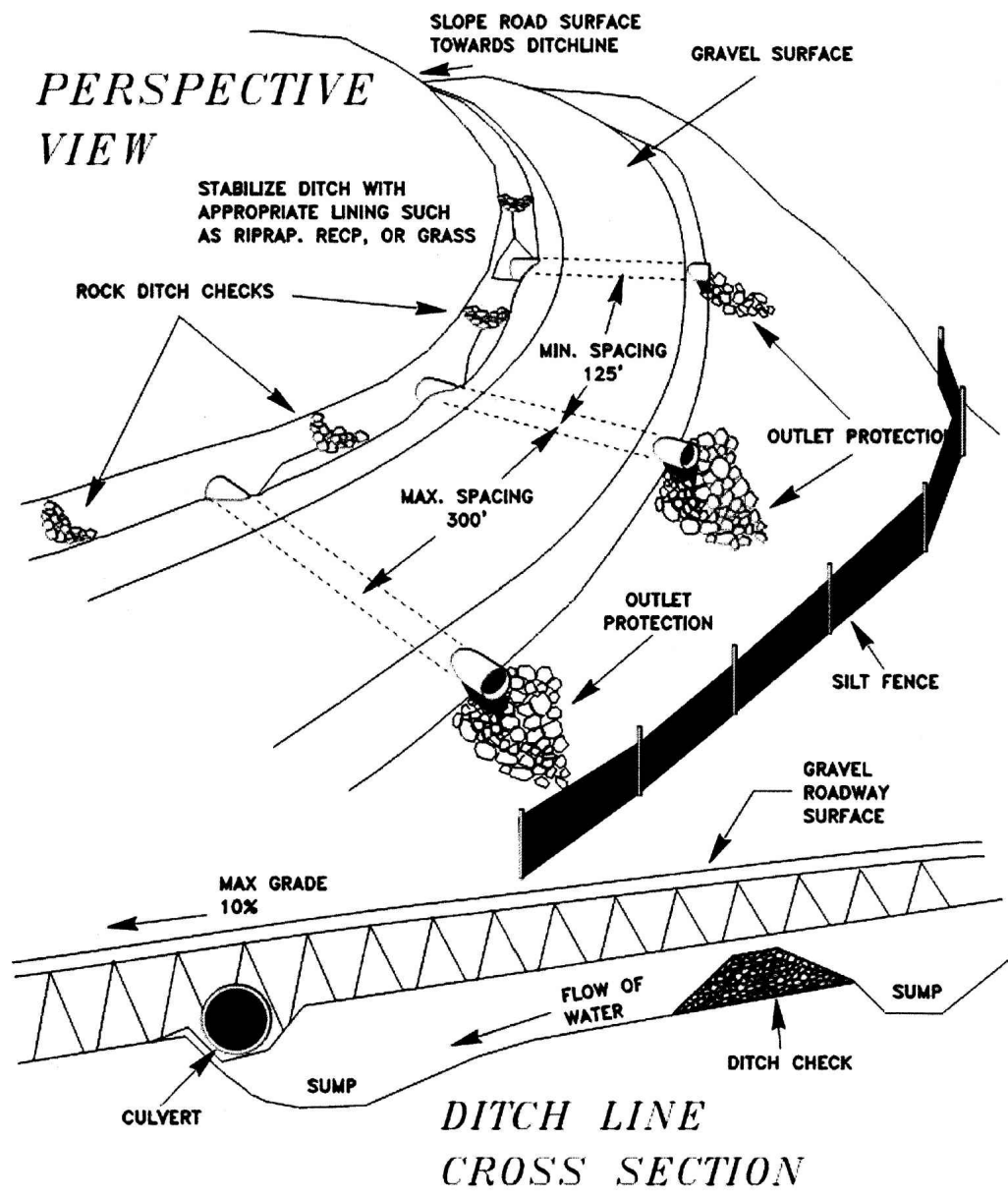
- PROTECTIVE FENCING SHOULD BE INSTALLED TO PREVENT ACCESS TO POTENTIALLY HAZARDOUS AREAS OF A CONSTRUCTION SITE.
 - APPLICABLE TO ANY CONTROL MEASURE OR SERIES OF MEASURES, WHICH CAN BE CONSIDERED UNSAFE BY VIRTUE OF POTENTIAL FOR ACCESS BY THE PUBLIC, THE DESIGNER, DEVELOPER, AND CONTRACTOR SHOULD ALWAYS BE SURE THAT THE MOST APPROPRIATE TYPE OF FENCE IS UTILIZED FOR A PARTICULAR NEED.
 - SAFETY FENCES SHOULD BE LOCATED SO AS TO CREATE A FORMIDABLE BARRIER TO UNDESIRABLE ACCESS, WHILE ALLOWING FOR THE CONTINUATION OF NECESSARY CONSTRUCTION OPERATIONS.
 - SAFETY FENCES ARE MOST APPLICABLE TO THE CONSTRUCTION OF TRAPS AND DAMS. IN USE WITH THOSE STRUCTURES, SAFETY FENCES SHOULD BE LOCATED FAR ENOUGH BEYOND THE OUTER TOE OF THE EMBANKMENT TO ALLOW FOR THE PASSAGE OF MAINTENANCE VEHICLES. FENCES SHOULD NOT BE INSTALLED ACROSS THE SLOPE OF A DAM OR DIKE.
 - SIGNS NOTING POTENTIAL HAZARDS SUCH AS "DANGER" OR "HAZARDOUS AREA - KEEP OUT" SHOULD BE POSTED AND EASILY SEEN BY ANYONE APPROACHING THE PROTECTED AREA.
 - PLASTIC (POLYETHYLENE) FENCE MAY BE USED AS SAFETY FENCING, PRIMARILY IN SITUATIONS WHERE THE NEED IS FOR A TEMPORARY BARRIER. THE FENCE SHOULD MEET THE PHYSICAL REQUIREMENTS NOTED IN TABLE 3.04.1.
 - SAFETY FENCES SHOULD BE INSTALLED PRIOR TO THE SEDIMENT CONTROL MEASURE BECOMING ACCESSIBLE.
 - APPLICABLE WARNING SIGNS NOTING HAZARDOUS CONDITIONS MUST BE INSTALLED IMMEDIATELY UPON INSTALLATION OF SAFETY FENCE.
 - CHAIN LINK FENCE SHOULD BE USED FOR PERMANENT STRUCTURES (GREATER THAN ONE YEAR).
- MAINTENANCE
- SAFETY FENCE SHALL BE CHECKED REGULARLY FOR WEATHER-RELATED OR OTHER DAMAGE. ANY NECESSARY REPAIRS MUST BE MADE IMMEDIATELY.
 - CARE SHOULD BE TAKEN TO SECURE ALL ACCESS POINTS (GATES) AT THE END OF EACH WORKING DAY. ALL LOCKING DEVICES MUST BE REPAIRED OR REPLACED AS NECESSARY.

PHYSICAL PROPERTY	TEST	REQUIREMENTS
RECOMMENDED COLOR	N/A	INTERNATIONAL ORANGE
TENSILE YIELD	ASTM D638	AVERAGE 2,000 lbs.
ULTIMATE TENSILE STRENGTH	ASTM D638	AVERAGE 2,000 lbs. per 4FT. WIDTH
ELONGATION AT BREAK(%)	ASTM D638	GREATER THAN 1000%
CHEMICAL RESISTANCE	N/A	INERT TO MOST CHEMICALS/ACIDS

SAFETY FENCE SPECIFICATIONS



OUTLET PROTECTION DETAIL
NOT TO SCALE



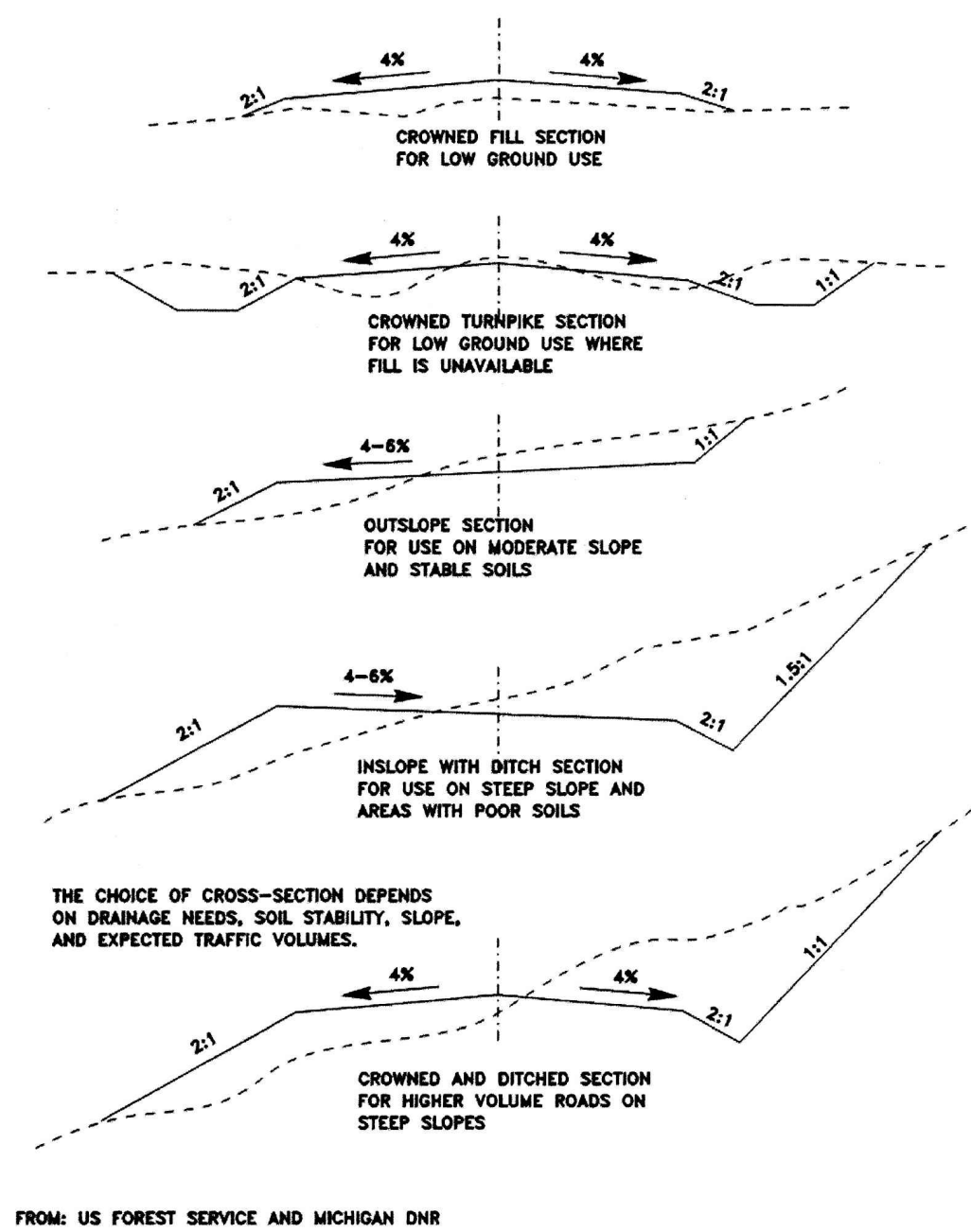
DITCH LINE CROSS SECTION

DRAINAGE AREA (AC)	PIPE DIAMETER (IN)	PIPE CAPACITY (CFS)
10	15	5
20	18	9
30	21	12
50	24	18
80	27	24
100	30	29
300	36	60
500	42	85

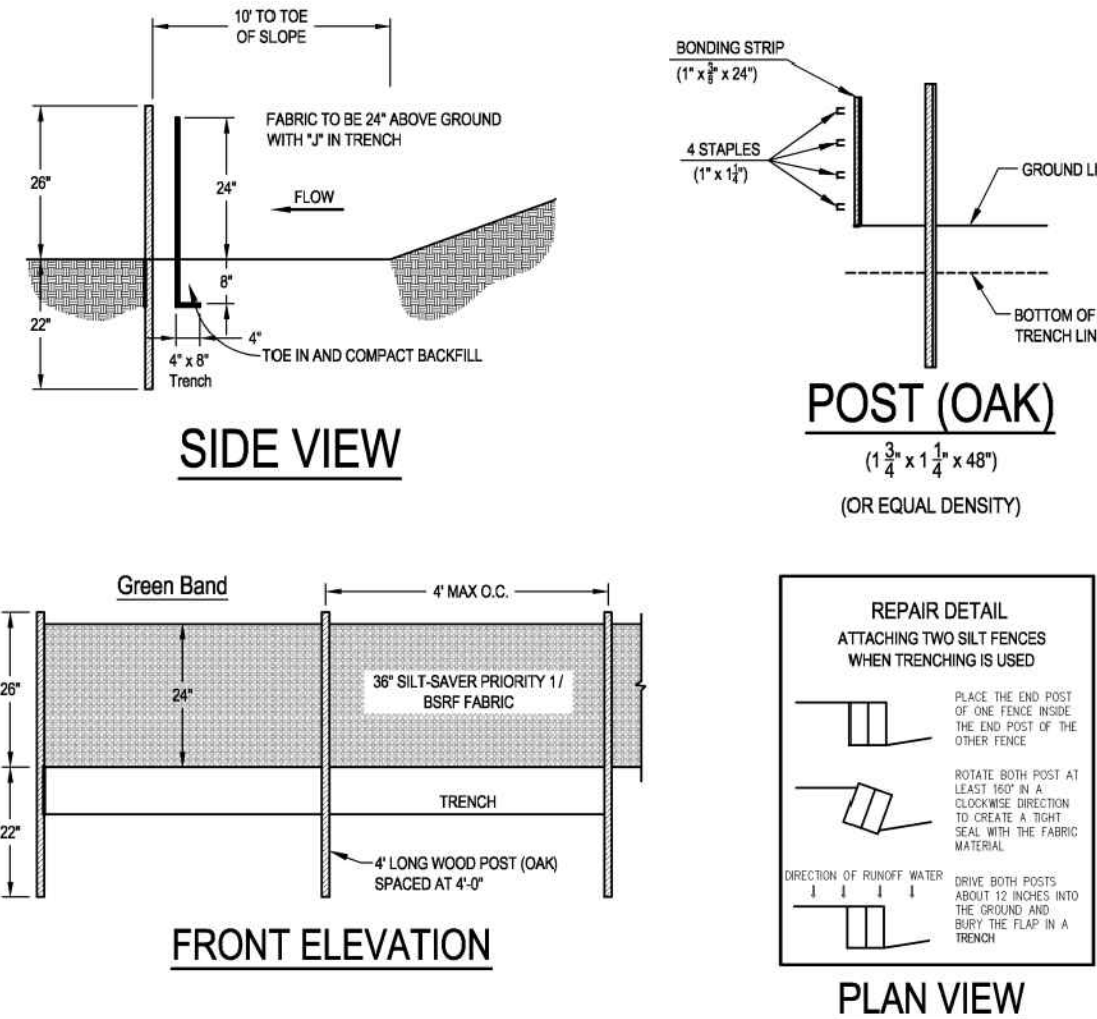
SOURCE: WEST VIRGINIA EROSION AND SEDIMENT CONTROL FIELD MANUAL, MAY 2012

SEDIMENT AND EROSION CONTROL FOR ACCESS ROADS AND DRIVEWAYS
NOT TO SCALE

FIGURE 3.35.1 TYPES OF ROAD CROSS-SECTIONS

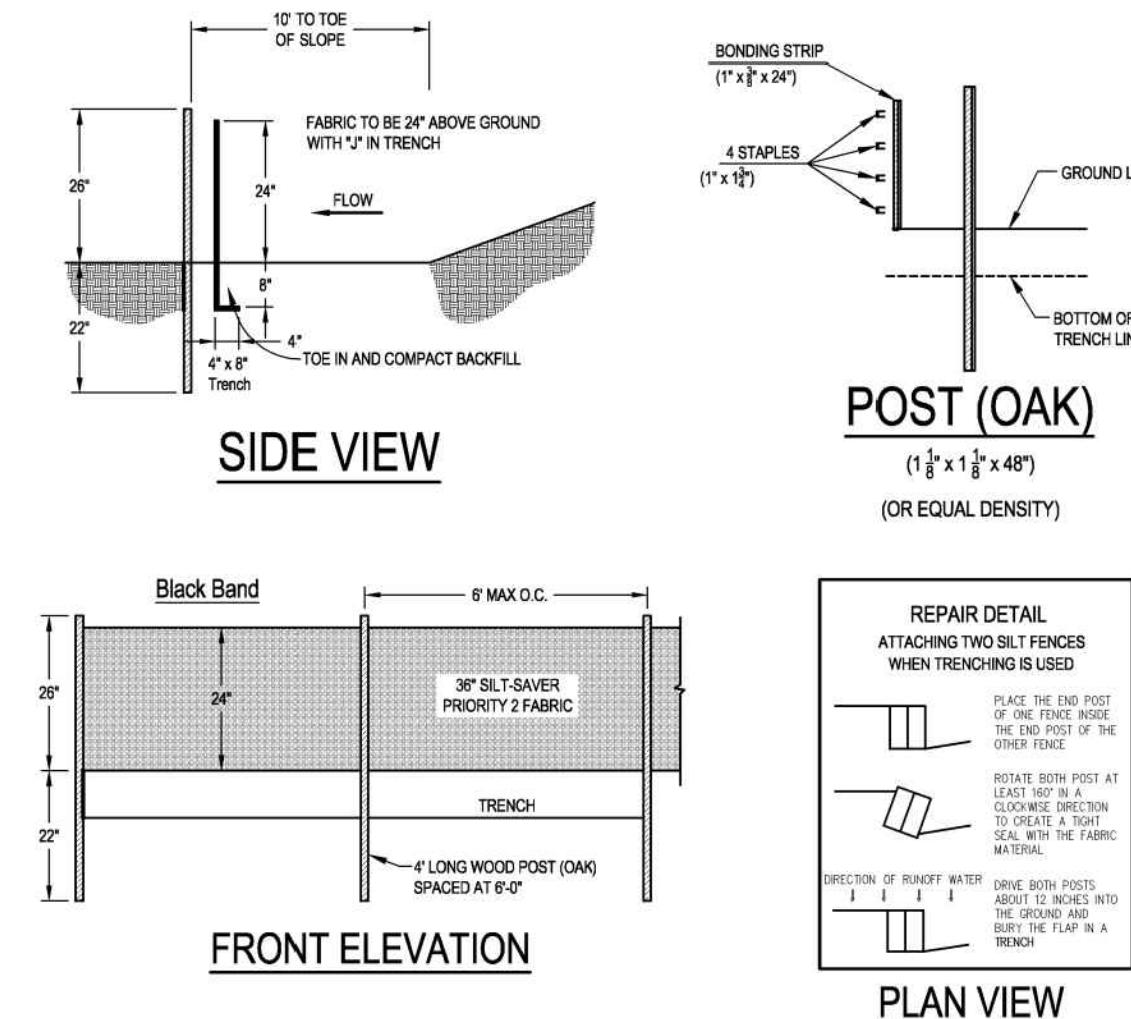


TYPES OF ROAD CROSS-SECTIONS
NOT TO SCALE



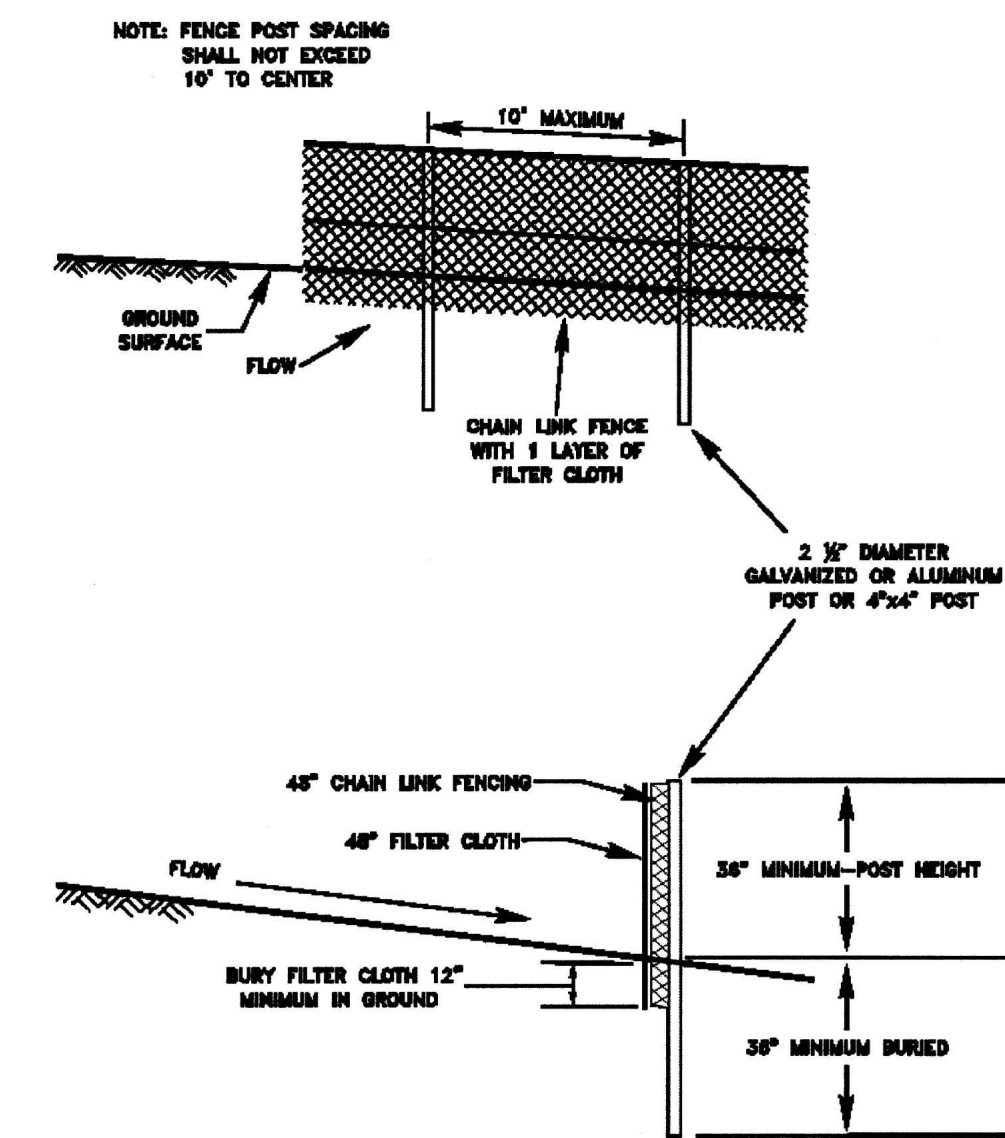
- NOTES:
- PRIORITY 1 - GREEN BAND BELTED SILT RETENTION FENCE SHALL BE INSTALLED UPGRADIENT OF WATERBODIES, WETLANDS, AND OTHER SENSITIVE RESOURCES.
 - USE OF BSRF PRIORITY 1 AND 2 IN OTHER AREAS WILL BE AT THE DISCRETION OF THE OWNER.

BELTED SILT RETENTION FENCE (BSRF)
PRIORITY 1 - GREEN BAND
NOT TO SCALE



BELTED SILT RETENTION FENCE (BSRF)
PRIORITY 2 - BLACK BAND
NOT TO SCALE

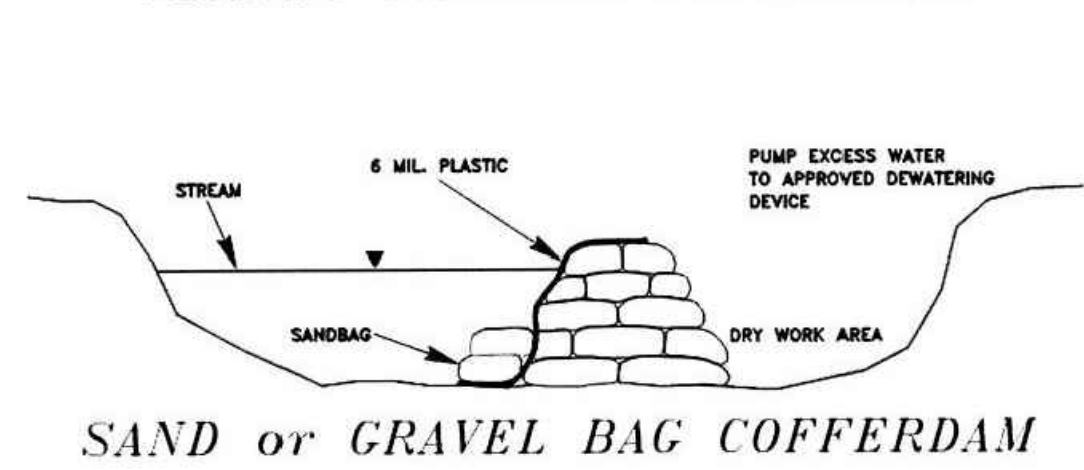
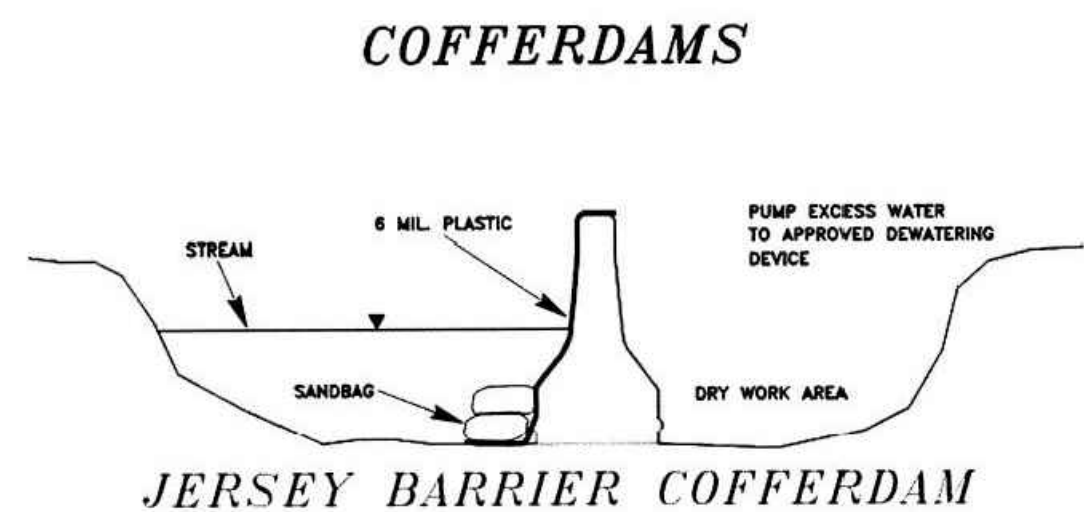
FIGURE 3.28.1 SUPER SILT FENCE



NOTE: WHERE SUPER SILT FENCE IS SHOWN ON THE ALIGNMENT SHEETS AN ACCEPTABLE SUBSTITUTE SHALL BE A PYRAMID STACK OF THREE 18 INCH DIAMETER COMPOST FILTER SOCKS, SUBJECT TO THE APPROVAL OF THE E.I.

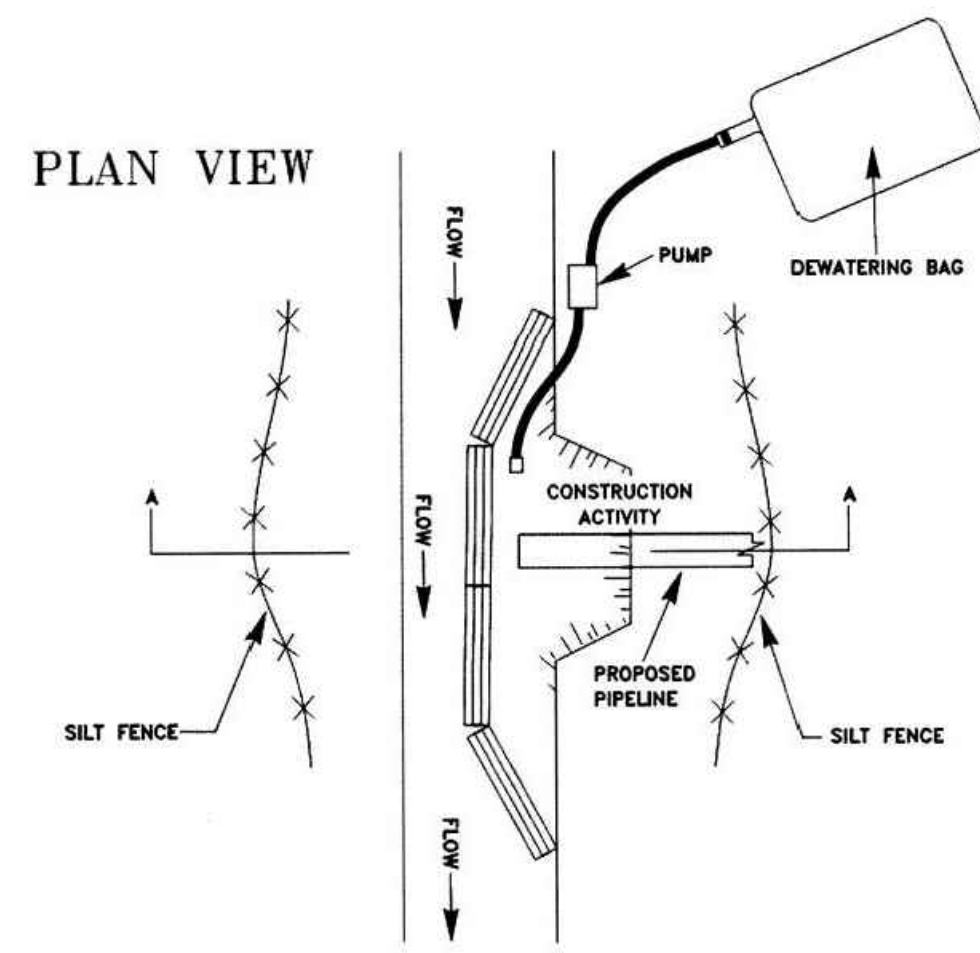
SUPER SILT FENCE
NOT TO SCALE

GENERAL NOTES AND COMMENTS:	SYM.	DATE	BY	REVISION INFORMATION		PROJECT/TASK	APP.	SEAL	Environmental Resources Management	Atlantic Coast Pipeline, LLC		
				NO.	DESCRIPTION					TITLE:	DISTRICT:	COUNTY:
		03/09/2017	JR							925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000	ATLANTIC COAST PIPELINE EROSION AND SEDIMENT CONTROL DETAILS	DISTRICT: - COUNTY: - STATE: NC GROUP: - DWG. NO. 6 OF 7 REV. 0

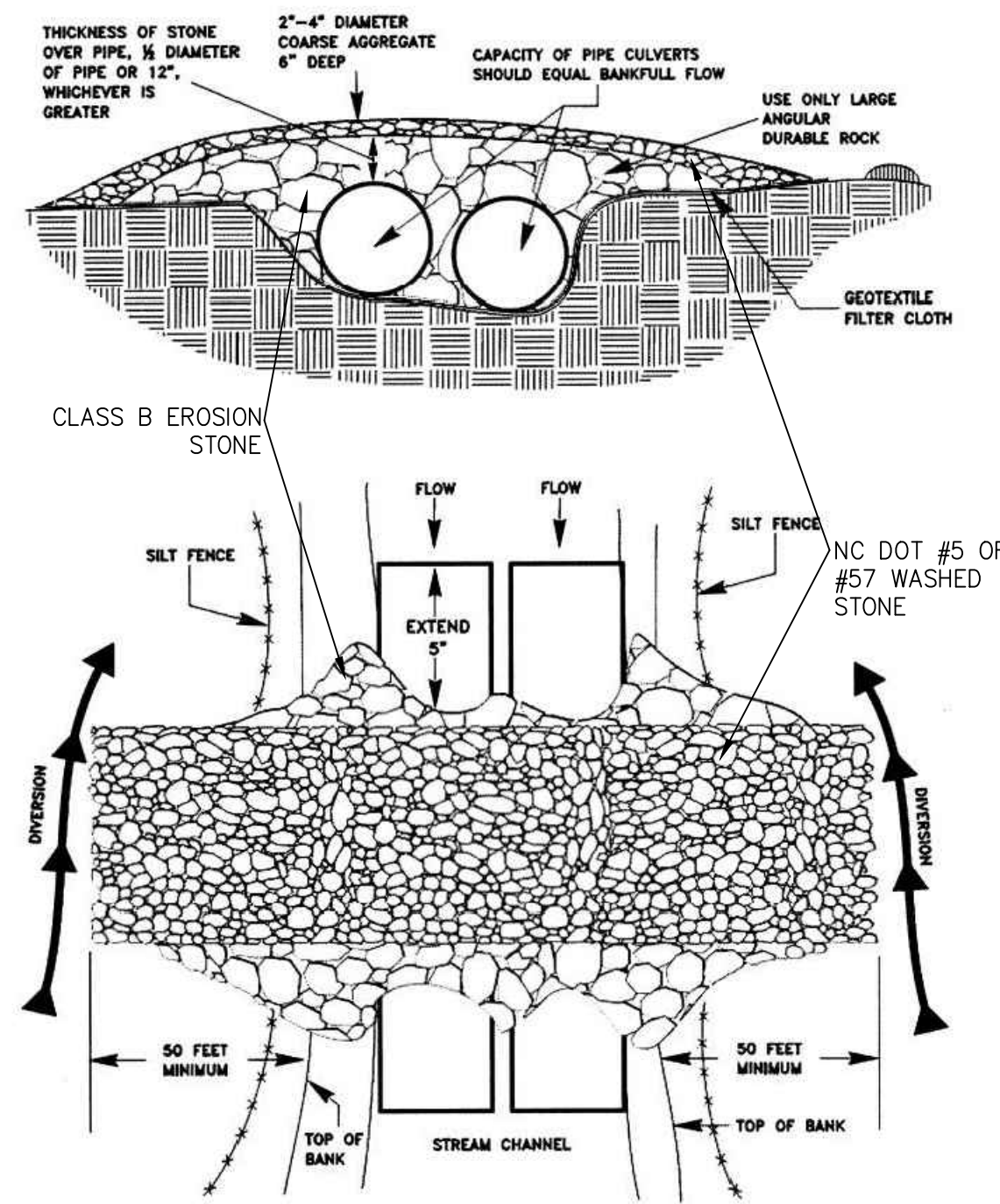


COFFERDAMS
NOT TO SCALE

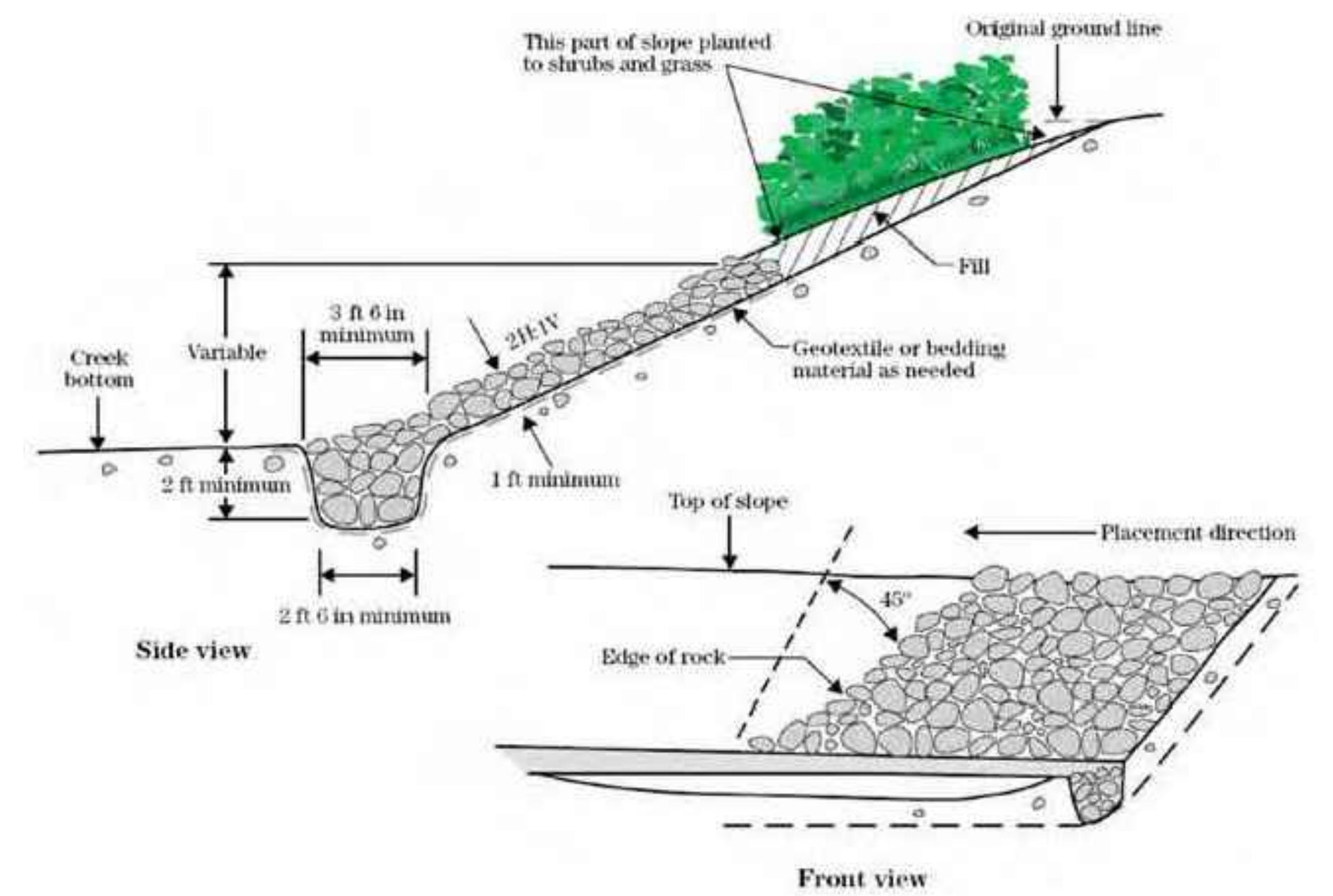
PLAN VIEW



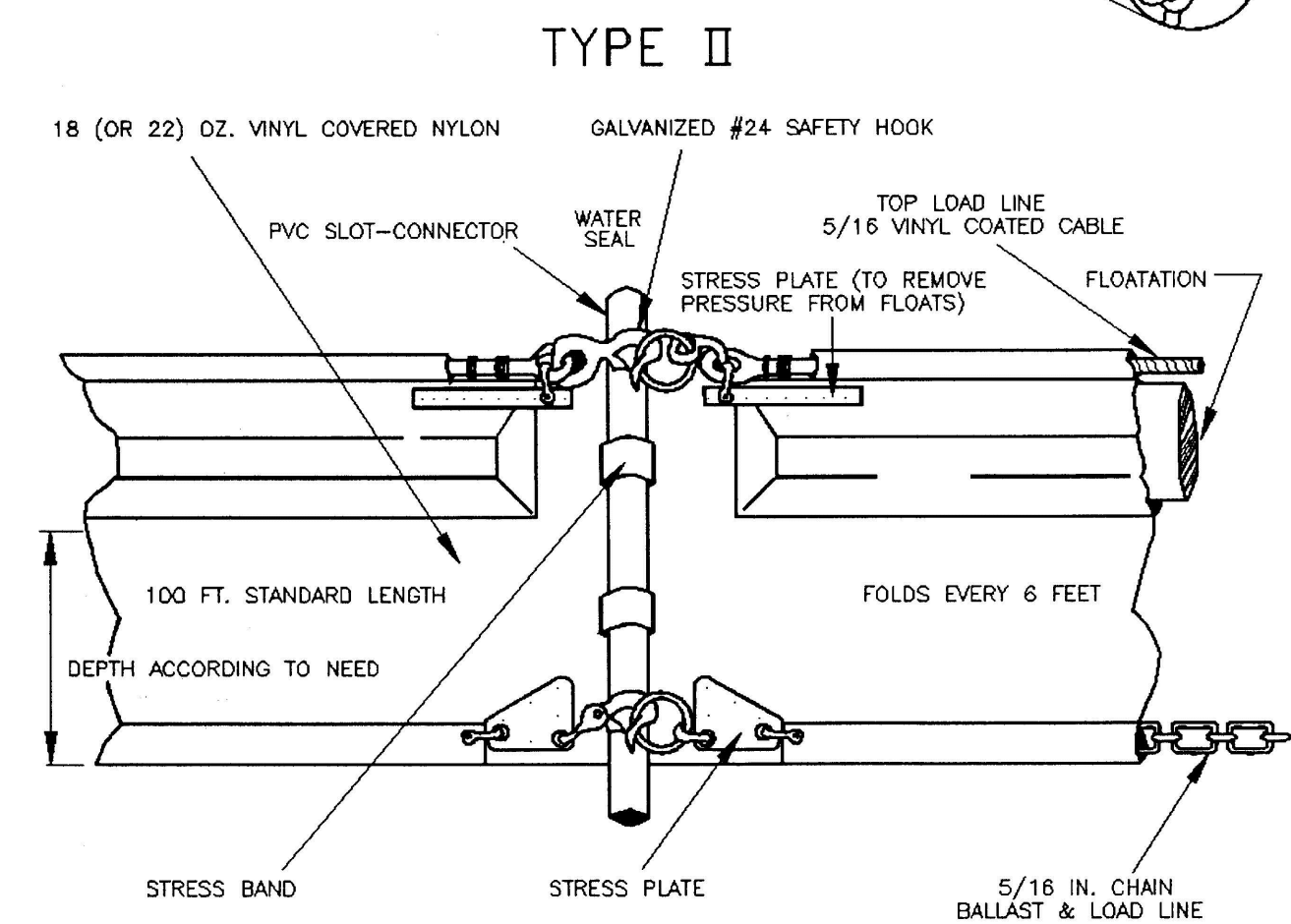
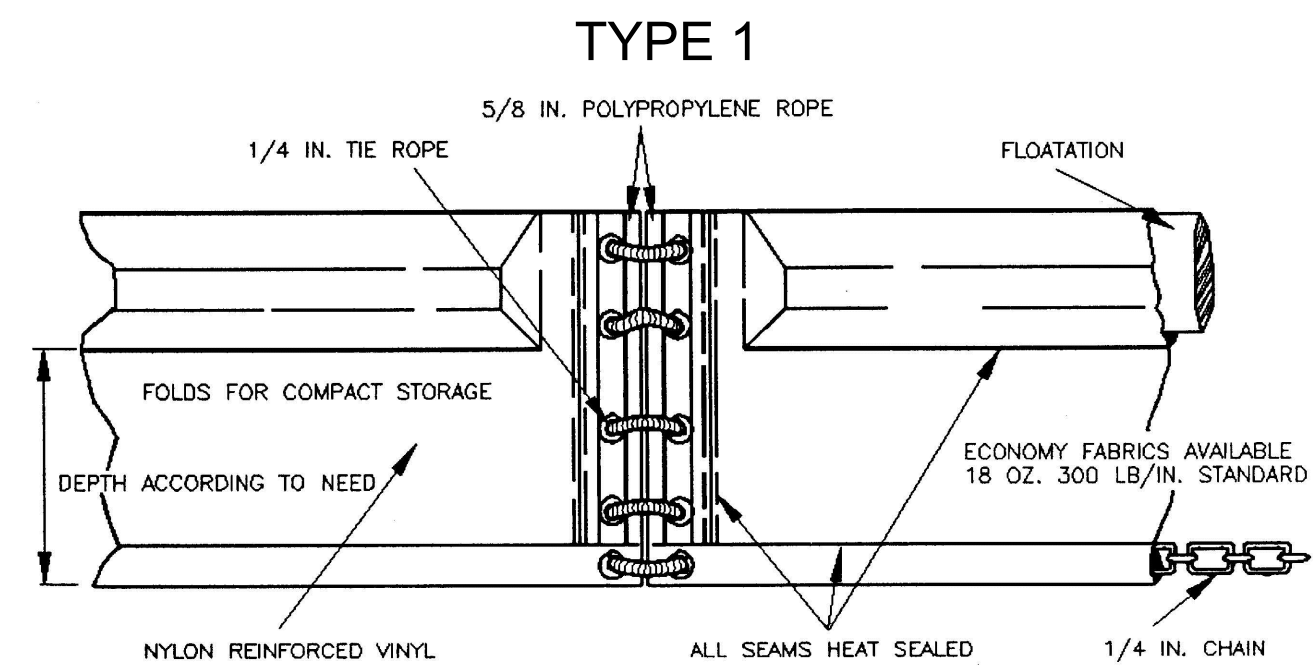
COFFERDAM CROSSING
NOT TO SCALE



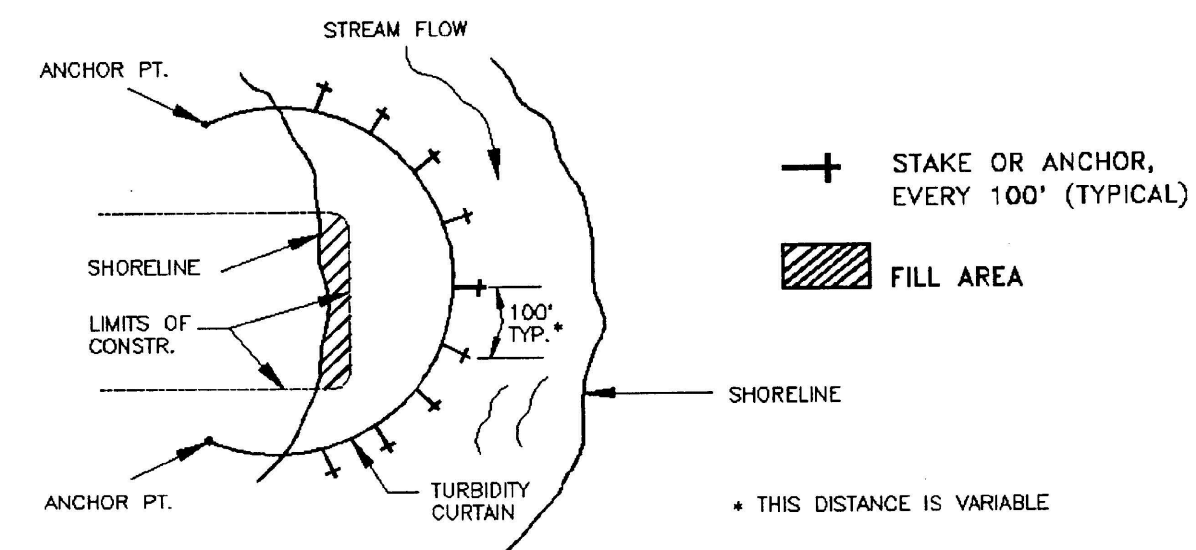
CULVERT STREAM CROSSING
NOT TO SCALE



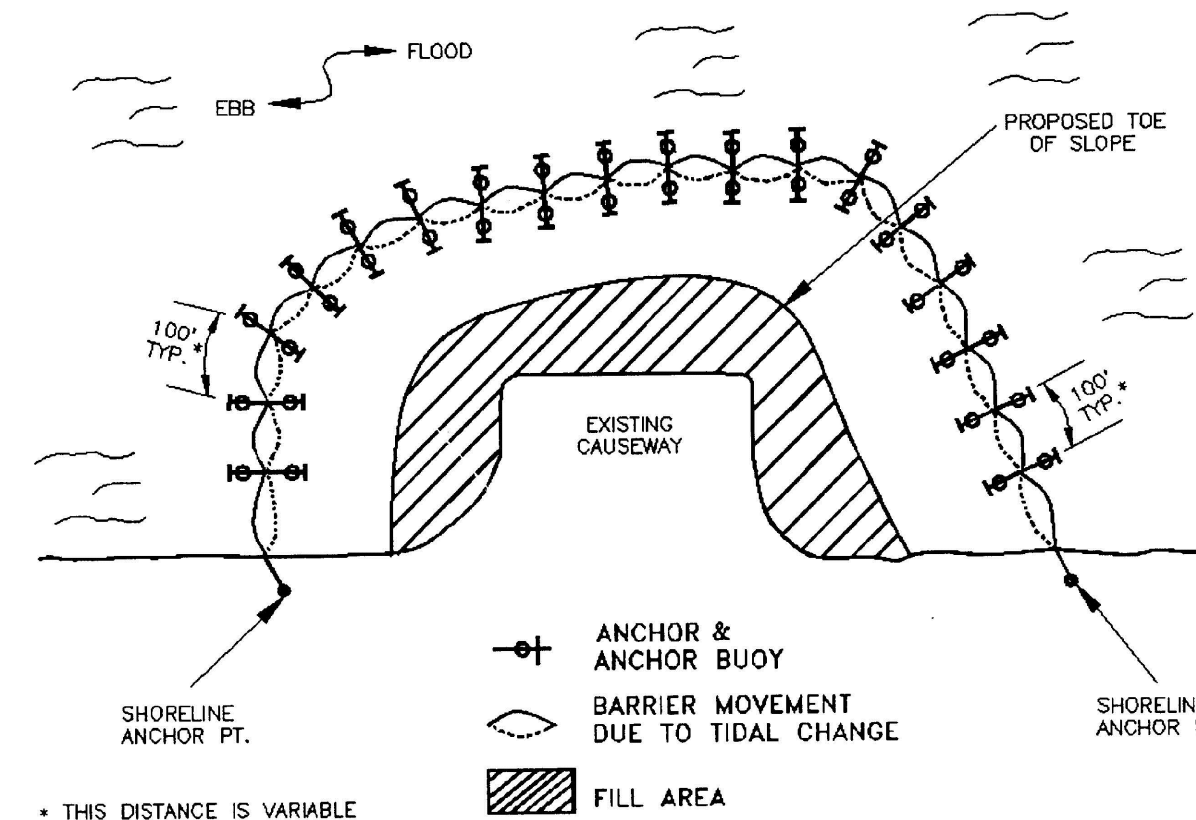
STRUCTURAL STREAMBANK STABILIZATION DETAIL
NOT TO SCALE



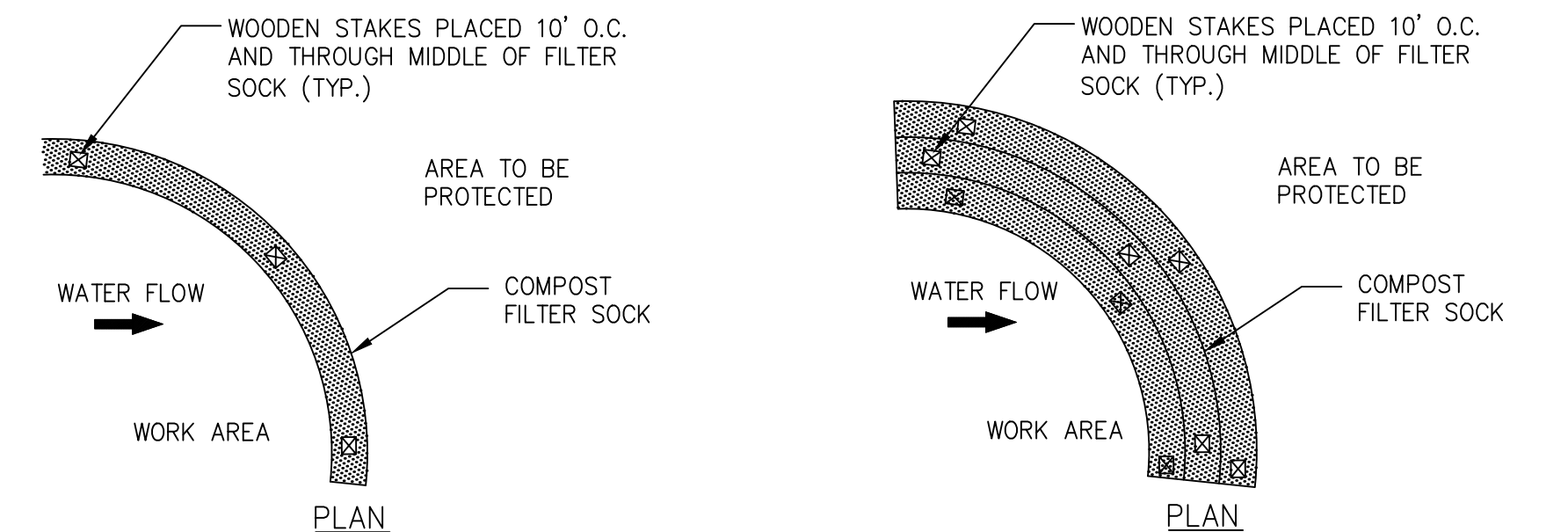
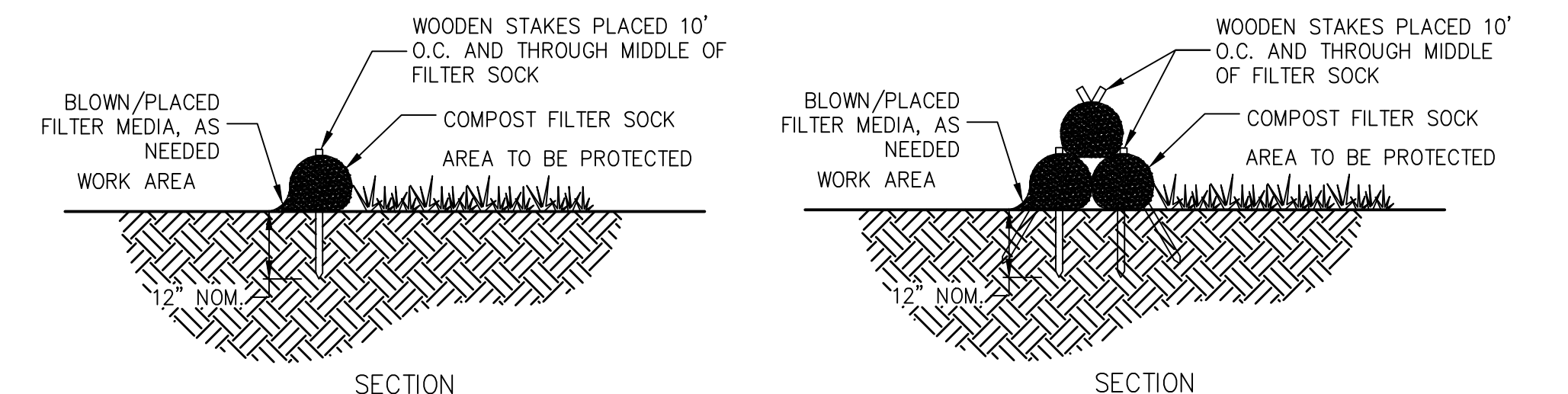
TURBIDITY CURTAIN DETAIL
NOT TO SCALE



TIDAL WATERS AND/OR HEAVY WIND & WAVE ACTION



TURBIDITY CURTAIN DETAIL
NOT TO SCALE

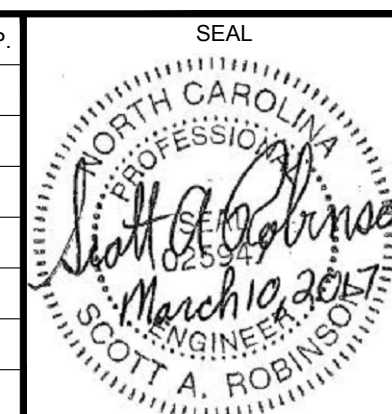


- NOTES:**
1. FILTER SOCK TO BE FILTERXX SEDIMENT CONTROL SILTSOXX OR APPROVED EQUAL. FILTER MEDIA INSIDE AND, AS NECESSARY UP-SLOPE OF FILTER SOCK, TO BE FILTERXX FILTERMEDIA OR APPROVED EQUAL.
 2. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE FILTER SOCK.

COMPOST FILTER SOCK
NOT TO SCALE

GENERAL NOTES AND COMMENTS:

SYM.	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.



ENVIRONMENTAL RESOURCES MANAGEMENT ERM	DRAWN: JR 03/09/2017	
	CHECKED: SL 03/09/2017	
	APP. FOR BID:	
	APP. FOR CONST.:	
	SCALE: AS NOTED	

Atlantic Coast Pipeline, LLC					
925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000					
TITLE: ATLANTIC COAST PIPELINE EROSION AND SEDIMENT CONTROL DETAILS					
DISTRICT:	COUNTY:	STATE: NC	GROUP:	DWG. NO. 7 OF 7	REV. 0
DIR/FILE: ACP/North Carolina/Details					