

# SITE DEVELOPMENT PLAN

## BORGER REPLACEMENT PROJECT TOWN OF DRYDEN, TOMPKINS COUNTY, NEW YORK

AUGUST 2020

DRAWING INDEX	
SHEET No.	DRAWING TITLE
C-1	GENERAL NOTES & LEGEND
C-2	EXISTING CONDITIONS PLAN
C-3	PROPOSED SITE LAYOUT AND GRADING PLAN
C-4	EROSION & SEDIMENT CONTROL PLAN
C-5	PCSM DETAILS
C-6	EROSION AND SEDIMENT CONTROL NOTES
C-7	CONSTRUCTION AND E&S CONTROL DETAILS

PREPARED BY:



complex world | CLEAR SOLUTIONS™

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PREPARED FOR:



707 EAST MAIN STREET, RICHMOND, VIRGINIA 23219



LOCATION MAP  
BORGER COMPRESSOR STATION  
TOWN OF DRYDEN, TOMPKINS COUNTY, NEW YORK

0 1000 2000  
SCALE IN FEET

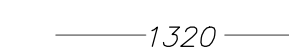

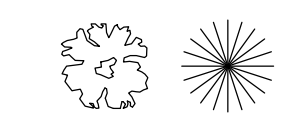





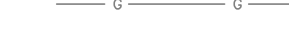










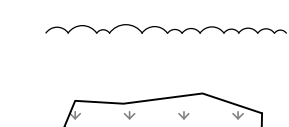



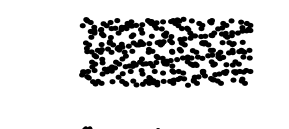

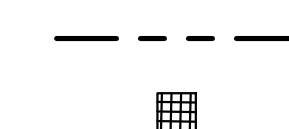

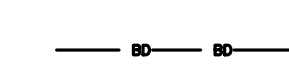



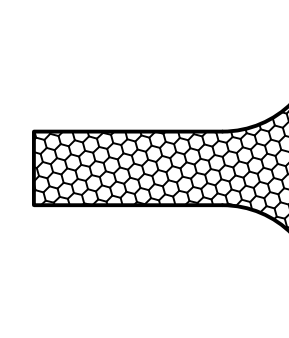
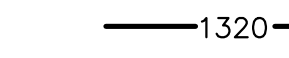
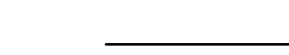


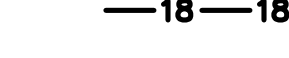
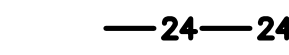



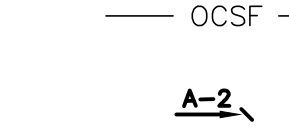
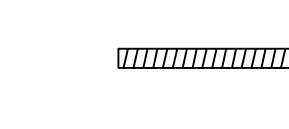

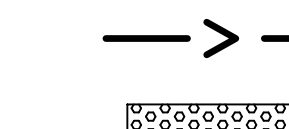

**NOTES:**

1. THE PROJECT TAKES PLACE WITHIN THE TOWN OF DRYDEN, TOMPKINS COUNTY, NEW YORK.
2. SITE DRAINS TO CASCADILLA CREEK.

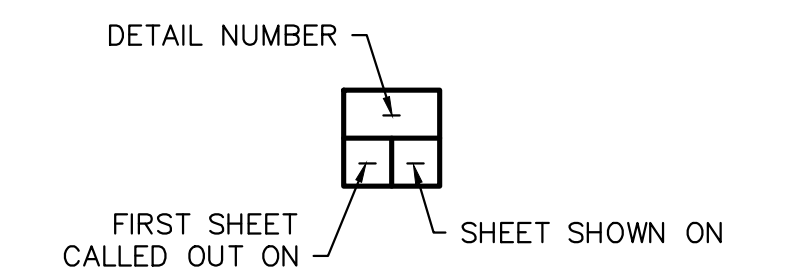
**PROJECT NARRATIVE:**

DOMINION ENERGY TRANSMISSION, INC. (DETI) PROPOSES TO REPLACE TWO EXISTING TURBINES WITH NEW UNITS AT ITS BORGER STATION IN THE TOWN OF DRYDEN. EACH UNIT WILL HAVE ITS OWN NEW BUILDING WITH A 3RD NEW BUILDING FOR AUXILIARIES. IN ADDITION, DETI WILL INSTALL AN OXIDATION CATALYST ON AN EXISTING TURBINE TO FURTHER REDUCE EMISSIONS, INSTALL THREE NEW MICROTURBINES, REPLACE BLOWDOWN SILENCERS/VENTS TO ALLOW FOR CAPPED EMERGENCY SHUTDOWNS TO REDUCE EMISSIONS, REPLACE AN AGING BOILER SYSTEM, AND INSTALL OTHER MINOR STATION PIPING AND UPDATES. TWO EXISTING TURBINES WILL BE DISCONNECTED AND REMOVED FROM SERVICE AFTER THE REPLACEMENT TURBINES ARE BROUGHT IN-SERVICE WITH THE EXISTING BUILDING BEING USED FOR OPERATIONS AND STORAGE. ALL WORK WILL OCCUR WITHIN DETI OWNED PROPERTY.

**LEGEND**

-  EXISTING 10' CONTOUR
-  EXISTING 2' CONTOUR
-  EXISTING TREE
-  EXISTING FENCELINE
-  EXISTING STREAM
-  EXISTING DITCH
-  EXISTING ELECTRIC OVERHEAD
-  EXISTING GAS LINE
-  EXISTING UNDERGROUND ELECTRIC LINE
-  EXISTING WATER LINE
-  EXISTING OIL LINE
-  EXISTING AIR LINE
-  EXISTING BLOWDOWN LINE
-  EXISTING UNKNOWN UTILITY
-  EXISTING EDGE OF ROAD
-  EXISTING BUILDING/EQUIPMENT
-  EXISTING LIGHT POLE
-  EXISTING UTILITY POLE
-  EXISTING TREE LINE
-  EXISTING PEM WETLAND
-  EXISTING CULVERT/UNDERGROUND PIPE
-  PROPOSED CULVERT
-  PROPOSED GRAVEL PAD
-  PROPOSED PAVEMENT
-  PROPOSED CONCRETE
-  PROPOSED BUILDING/EQUIPMENT
-  PROPERTY LINE
-  PROPOSED YARD DRAIN
-  PROPOSED LIGHT POLE
-  PROPOSED BLOWDOWN LINE
-  LIMIT OF DISTURBANCE
-  STABILIZED CONSTRUCTION ENTRANCE
-  PROPOSED 10' CONTOUR
-  PROPOSED 2' CONTOUR
-  12" COMPOST FILTER SOCK
-  18" COMPOST FILTER SOCK
-  24" COMPOST FILTER SOCK
-  COMPOST SOCK SEDIMENT TRAP
-  COMPOST SOCK SEDIMENT TRAP DRAINAGE AREA
-  ORANGE CONSTRUCTION FENCE
-  PROPOSED EARTH DIKE
-  PERMANENT FLOW SPREADER
-  TEMPORARY FLOW SPREADER
-  PROPOSED LINED WATERWAY
-  PROPOSED GRASS FILTER STRIP
-  VEGETATION PROTECTION AREA

**DETAIL INDICATOR**



GENERAL NOTES AND COMMENTS:

SYM.	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.

ORIGINAL CONSTRUCTION INFORMATION	
PROJECT/TASK: 212C-BF-00135	
DRAWN: DZ	1/14/2020
CHECKED: TD	1/17/2020
APP. FOR BID:	
APP. FOR CONST.:	
SCALE: NO SCALE	

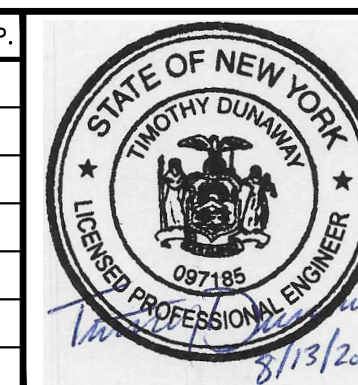
**Dominion Transmission, Inc.**  
707 EAST MAIN STREET RICHMOND, VA 23219

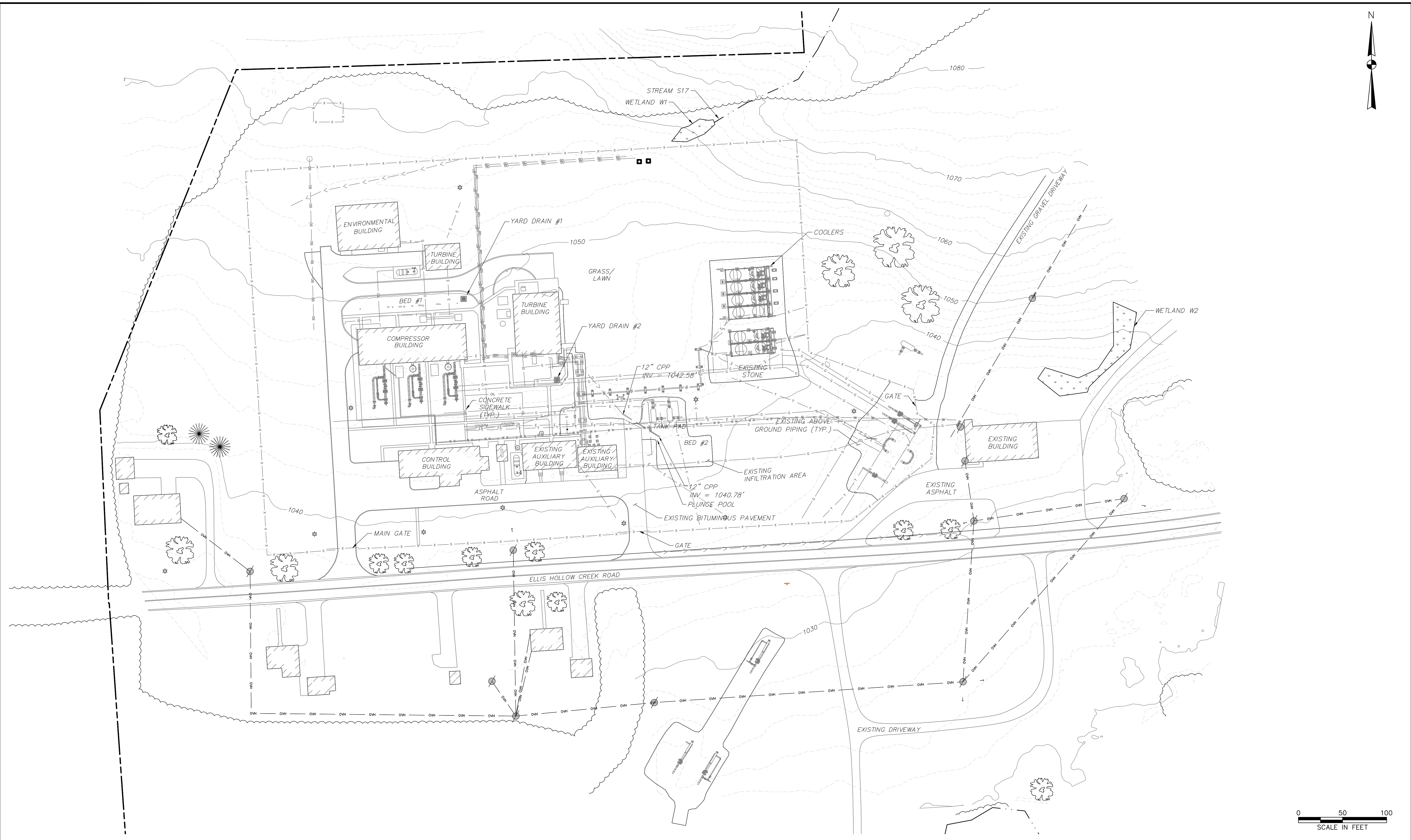
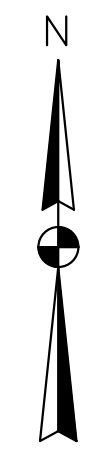
FOR: **BORGER REPLACEMENT PROJECT**

TITLE: **GENERAL NOTES AND LEGEND**

TOWN: DRYDEN, NY	COUNTY: TOMPKINS	GROUP	DWG. NO. <b>C-1</b>	REV. <b>0</b>
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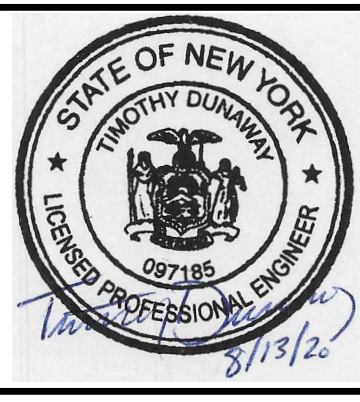




GENERAL NOTES AND COMMENTS:

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	7/27/20	TD	REVISED PER TOWN OF DRYDEN COMMENTS		

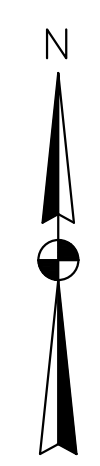
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CHECKED: TB	1/17/2020
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APP. FOR CONST.:	
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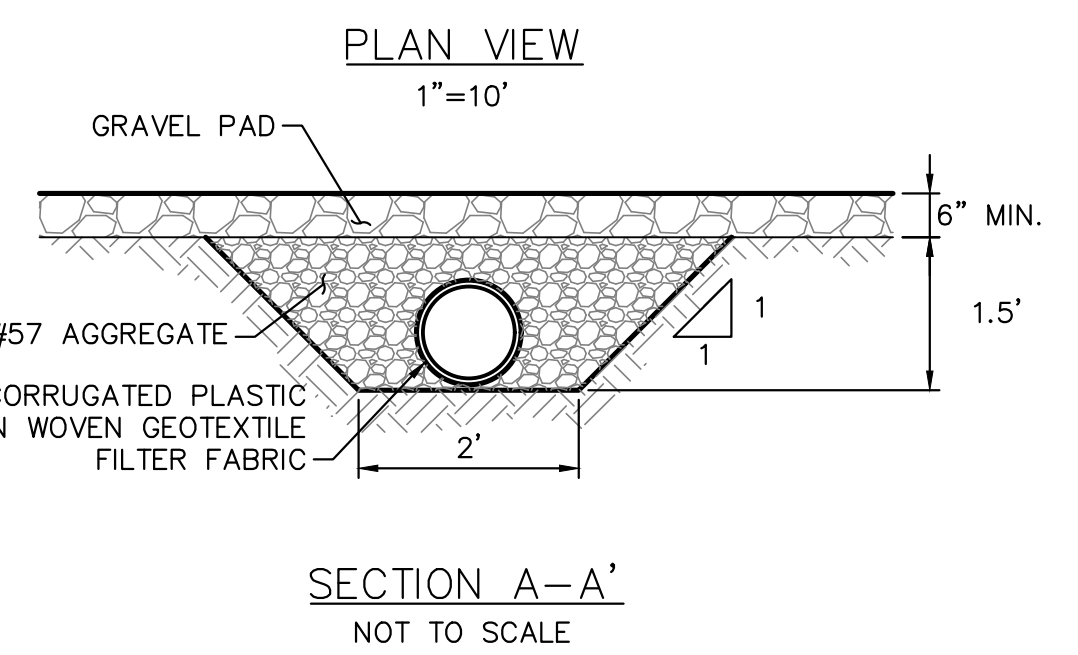
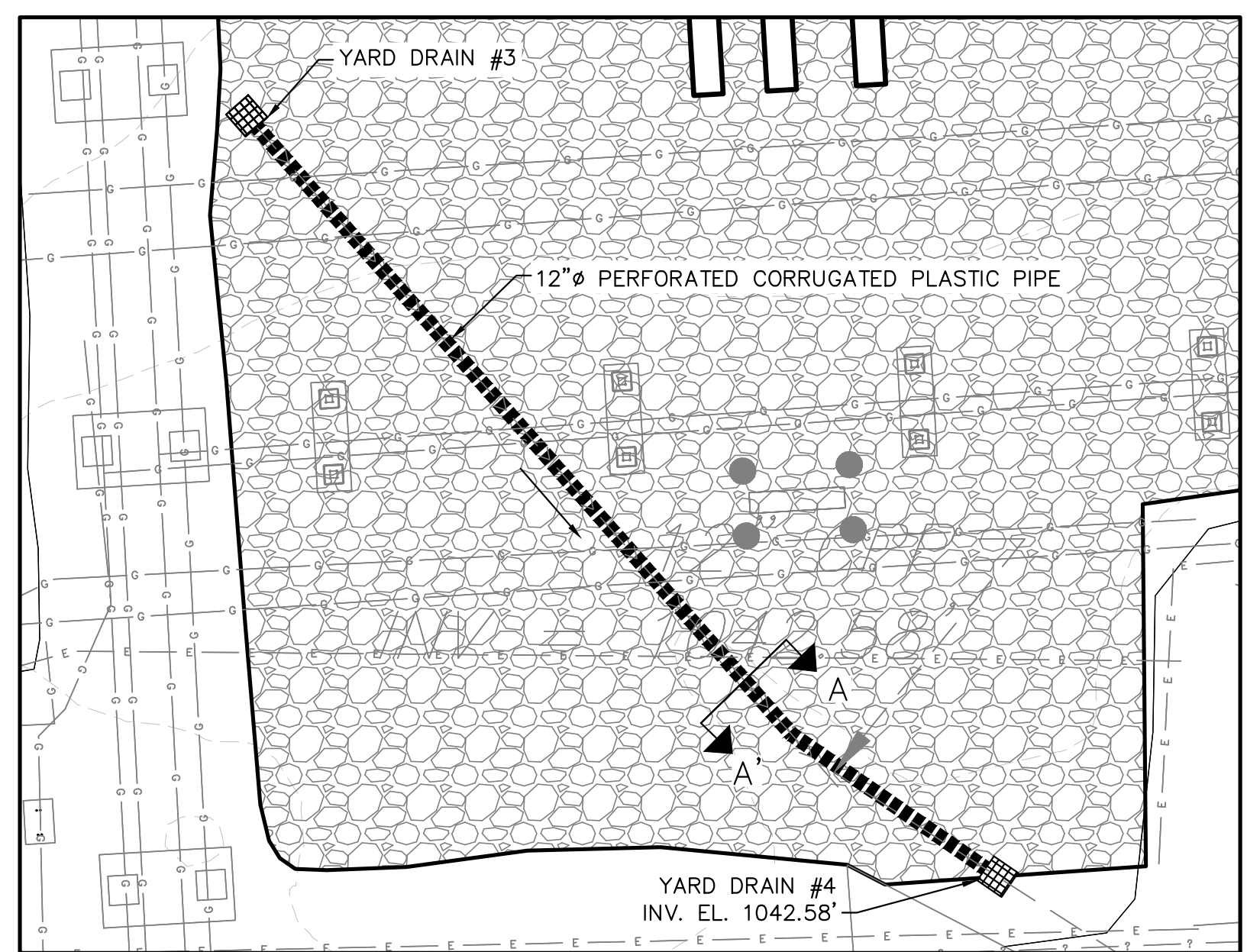
**Dominion Transmission, Inc.**  
707 EAST MAIN STREET RICHMOND, VA 23219

**BORGER REPLACEMENT PROJECT**  
**EXISTING CONDITIONS PLAN**

FOR:			
TITLE:			
TOWN:	DRYDEN, NY	COUNTY:	TOMPKINS
GROUP:		DWG. NO.:	C-2
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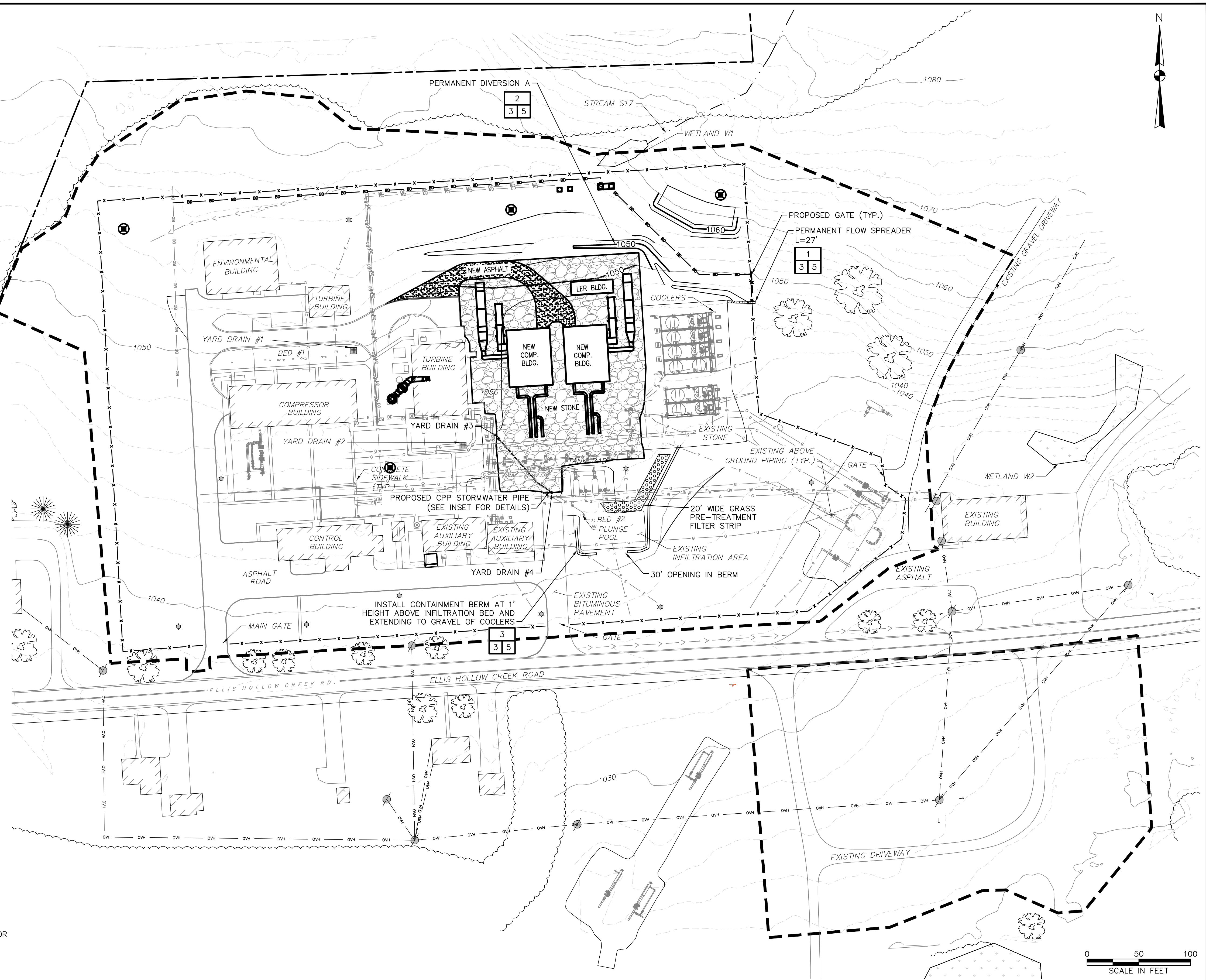


**EARTHWORK**  
 SITE WORK CUT = 243 CU. YARDS  
 SITE WORK FILL = 243 CU. YARDS  
 PERM. DIVERSION A CUT = 166 CU. YARDS  
 STOCKPILE FILL = 166 CU. YARDS



- NOTES:**
1. PROVIDE CORRUGATED PLASTIC PIPE IN EXISTING GRASS CHANNEL.
  2. PROVIDE TWO YARD DRAINS AT EACH PIPE END TO CONNECT TO EXISTING DRAIN PIPES.
  3. YARD DRAINS SHALL BE NYS DOT TYPE S 24"X32" RECTANGULAR BOX OR ENGINEER APPROVED EQUIVALENT WITH FITTING FRAME AND GRATE.
  4. THE OUTLET OF THE EXISTING YARD DRAIN #2 SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR TO DIRECTLY OUTLET INTO YARD DRAIN #3, YARD DRAIN #4, OR INFILTRATION BED #2.

**PROPOSED CPP STORMWATER PIPES**



GENERAL NOTES AND COMMENTS:

SYM.	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.
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SYM.	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.
	7/27/20	TD	REVISED PER TOWN OF DRYDEN COMMENTS		

**STATE OF NEW YORK**  
 TIMOTHY DUNN  
 LICENSED PROFESSIONAL ENGINEER  
 092185  
 9/3/20

ORIGINAL CONSTRUCTION INFORMATION	
PROJECT/TASK: 212C-BF-00135	
DRAWN: DZ	1/14/2020
CHECKED: TB	1/17/2020
APP. FOR BID:	
APP. FOR CONST.:	
SCALE:	1" = 50'

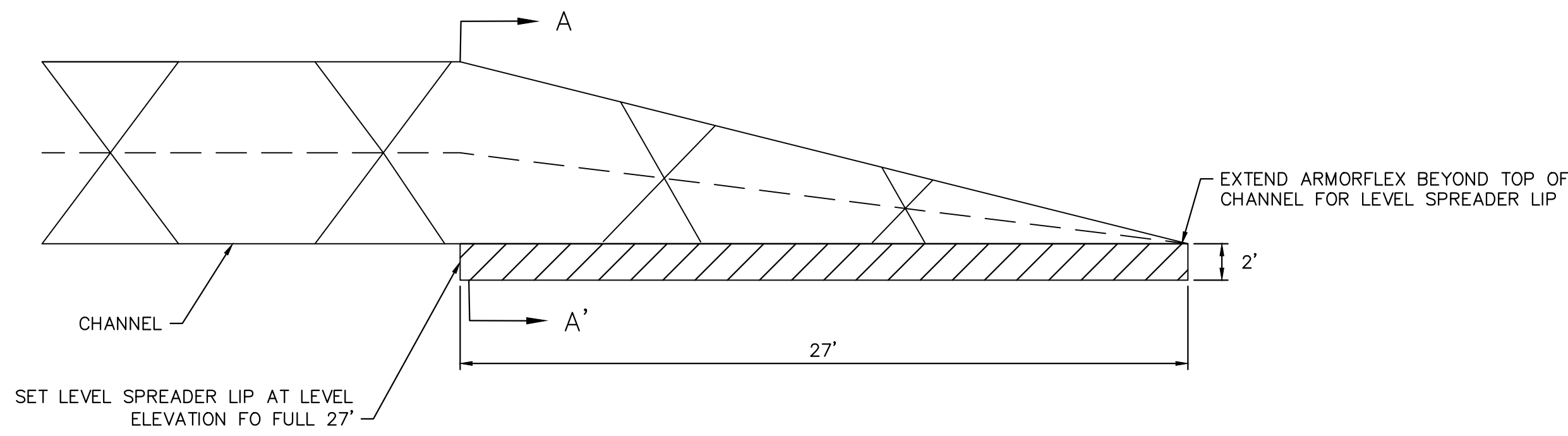
**Dominion Transmission, Inc.**  
 707 EAST MAIN STREET RICHMOND, VA 23219

**FOR: BORGER REPLACEMENT PROJECT**

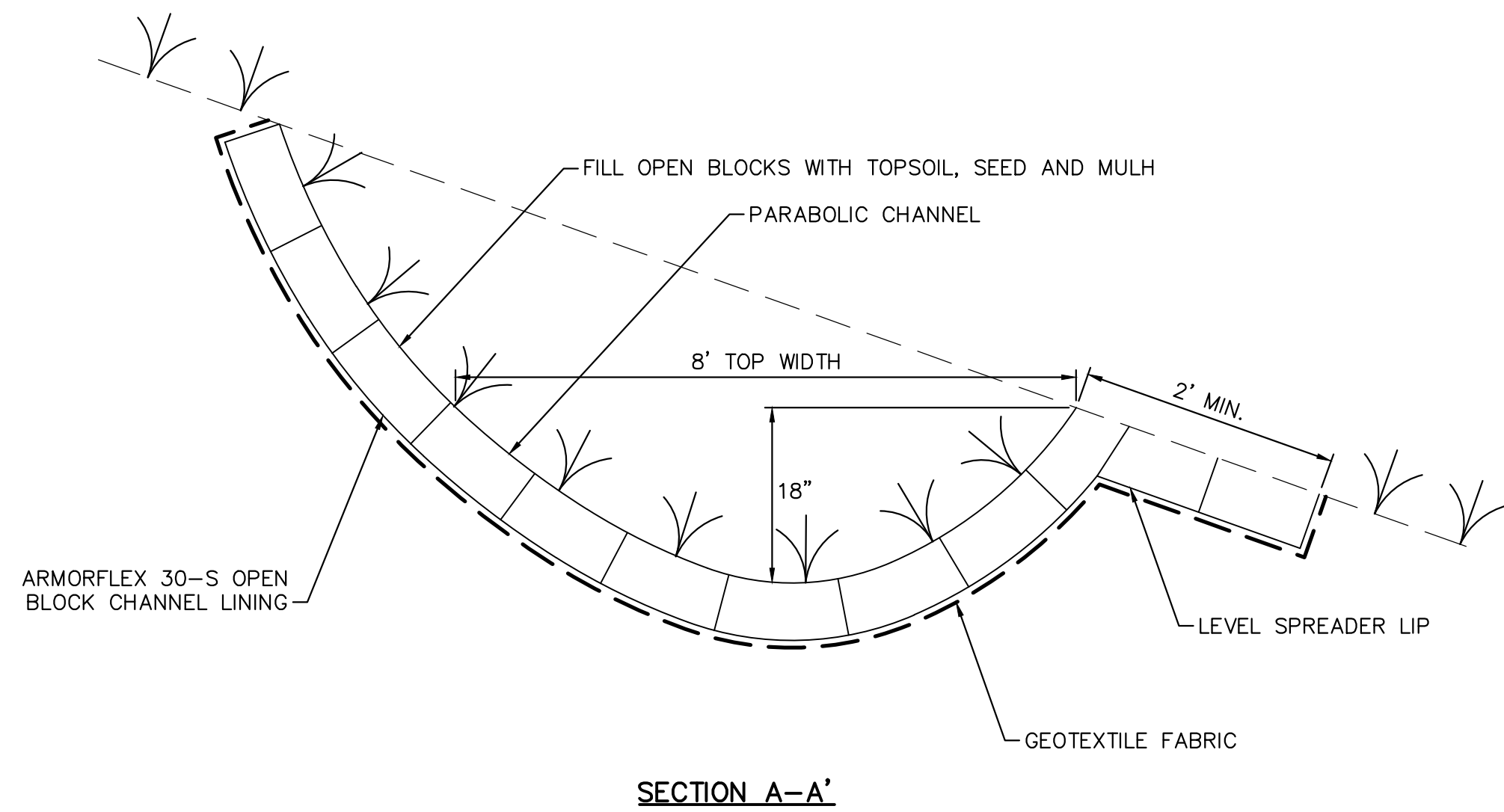
**TITLE: PROPOSED SITE LAYOUT AND GRADING PLAN**

TOWN: DRYDEN, NY	COUNTY: TOMPKINS	GROUP:	DWG. NO. C-3	REV. 0
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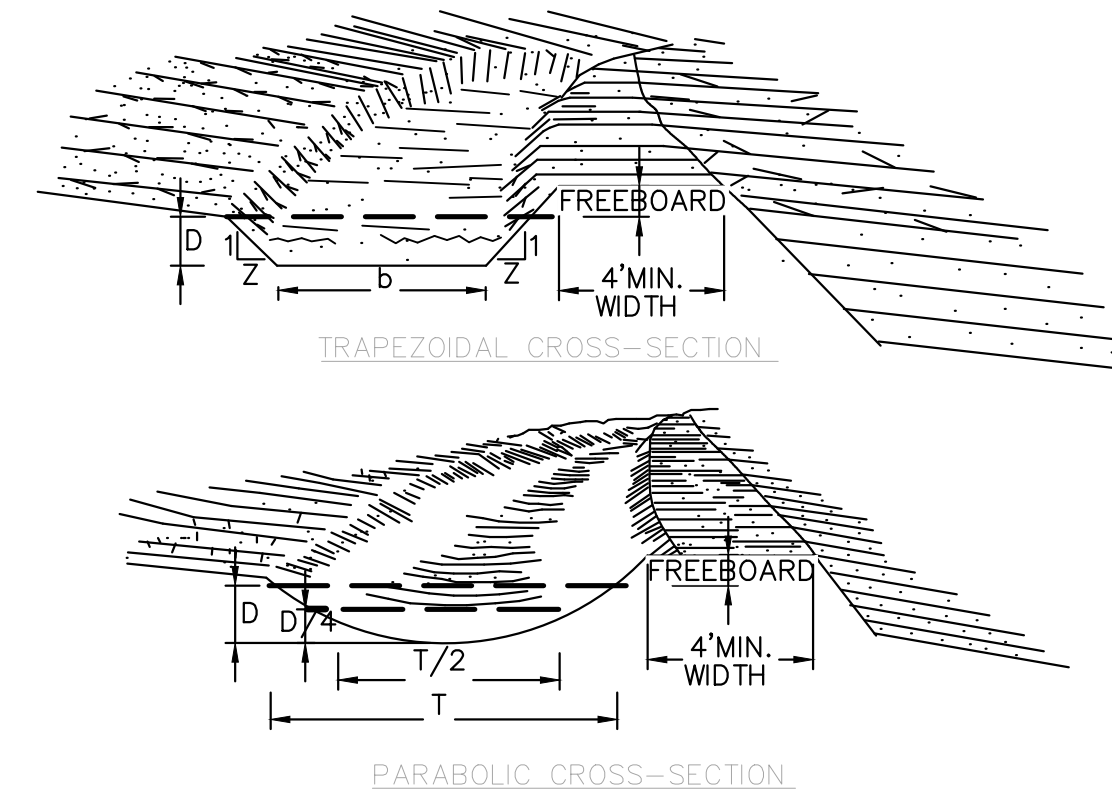
PLAN VIEW



SECTION A-A'

PERMANENT FLOW SPREADER DETAIL  
NOT TO SCALE

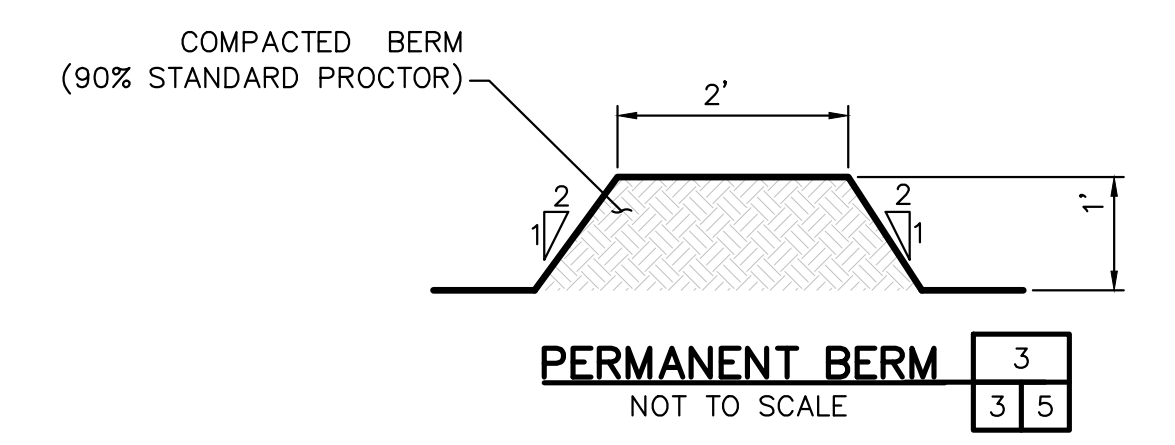
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3 5



DIVERSION	PERM/TEMP	TYPE	T	D	LINING
A	PERM	PARABOLIC	8-FT	18-IN	ARMORFLEX 30-S
B	TEMP	PARABOLIC	8-FT	24-IN	GRASS SEED PROTECED W/JUTE

**CONSTRUCTION SPECIFICATIONS**

- ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE DIVERSION.
- THE DIVERSION SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN, AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
- FILLS SHALL BE COMPACTED AS NEEDED TO PREVENT UNEQUAL SETTLEMENT THAT WOULD CAUSE DAMAGE IN THE COMPLETE DIVERSION.
- ALL EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE DIVERSION.
- STABILIZATION SHALL BE DONE ACCORDING TO THE APPROPRIATE STANDARD AND SPECIFICATIONS FOR VEGETATIVE PRACTICES.
  - FOR DESIGN VELOCITIES OF LESS THAN 3.5 FT. PER. SEC., SEEDING AND MULCHING MAY BE USED FOR THE ESTABLISHMENT OF THE VEGETATION. IT IS RECOMMENDED THAT, WHEN CONDITIONS PERMIT, TEMPORARY DIVERSIONS OR OTHER MEANS SHOULD BE USED TO PREVENT WATER FROM ENTERING THE DIVERSION DURING THE ESTABLISHMENT OF THE VEGETATION.
  - FOR DESIGN VELOCITIES OF MORE THAN 3.5 FT. PER. SEC., THE DIVERSION SHALL BE STABILIZED WITH SOD, WITH SEEDING PROTECTED BY JUTE OR EXCELSIOR MATTING OR WITH SEEDING AND MULCHING INCLUDING TEMPORARY DIVERSION OF THE WATER UNTIL THE VEGETATION IS ESTABLISHED.

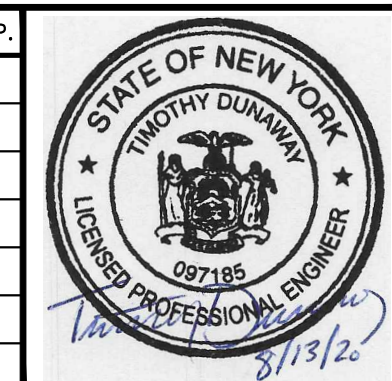


DIVERSION DETAIL  
NOT TO SCALE

2
3 5

GENERAL NOTES AND COMMENTS:

SYM.	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.
	7/27/20	TD	REVISED PER TOWN OF DRYDEN COMMENTS		



ORIGINAL CONSTRUCTION INFORMATION	
PROJECT/TASK: 212C-BF-00135	
DRAWN: DZ	1/14/2020
CHECKED: TB	1/17/2020
APP. FOR BID:	
APP. FOR CONST.:	
SCALE:	NOT TO SCALE

**Dominion Transmission, Inc.**  
707 EAST MAIN STREET RICHMOND, VA 23219

FOR: **BORGER REPLACEMENT PROJECT**

TITLE: **PCSM DETAILS**

TOWN: DRYDEN, NY	COUNTY: TOMPKINS	GROUP	DWG. NO. <b>C-5</b>	REV. <b>0</b>
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DIR/FILE:

## CONSTRUCTION SEQUENCE:

THE FOLLOWING CONSTRUCTION SEQUENCE IS A RECOMMENDED SEQUENCE BASED ON THE PROPOSED WORK AND THE REGULATORY REQUIREMENTS. PERFORM THE WORK WITHIN THIS GENERAL SEQUENCE OR MODIFY THE SEQUENCE AS NEEDED. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE REGULATIONS AND THE APPROVED SWPPP.

AT A MINIMUM:

- LOCATE AND STAKE OUT THE LOD AND STAKE OUT/FLAG ALL WETLANDS AND STREAMS WITHIN THE PROJECT VICINITY.
- PROVIDE ALL STABILIZED CONSTRUCTION ACCESS ENTRANCES AS INDICATED.
- PROVIDE COMPOST FILTER SOCK TRAP AND COMPOST FILTER SOCK IN ALL LOCATIONS AS INDICATED. INSTALL DIVERSION DRAIN AND ASSOCIATED STABILIZED OUTLETS IN ALL LOCATIONS AS INDICATED.
- AREAS WHERE VEGETATION IS PROTECTED INSIDE OF THE LOD SHALL ONLY BE USED FOR ACTIVITIES THAT DO NOT UPROOT OR OTHERWISE HARM TREES AND VEGETATION. SUCH ACTIVITIES MAY INCLUDE FENCE POST INSTALLATION, FENCE POST REMOVAL, E&S INSTALLATION SHORT-TERM MATERIALS STAGING, PASSENGER VEHICLE PARKING, AND CLEAN WATER DISCHARGE FROM DEWATERING ACTIVITY.
- SET UP WORK TRAILERS AND PORTABLE SANITARY FACILITIES IN THE STAGING AREA.
- COMMENCE MAJOR EARTH DISTURBING CONSTRUCTION ACTIVITIES AFTER THE ENVIRONMENTAL INSPECTOR HAS APPROVED THE INSTALLATION OF EROSION AND SEDIMENT CONTROLS. SEGREGATE TOPSOIL IN A SEPARATE STOCKPILE FOR REUSE ONSITE. ENSURE THAT INFILTRATION BEDS ARE PROTECTED FROM SEDIMENT LADEN RUNOFF AT ALL TIMES DURING CONSTRUCTION.
- DURING CONSTRUCTION, PROVIDE PERMANENT OR TEMPORARY SEED AS APPROPRIATE TO SOIL STOCKPILES AND OTHER AREAS THAT ARE OUTSIDE OF THE ONGOING CONSTRUCTION ACTIVITY. PROVIDE ADDITIONAL SEDIMENT BARRIERS IMMEDIATELY DOWNSLOPE OF SOIL STOCKPILES AS NEEDED.
- INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROLS UNTIL ALL SITE WORK IS COMPLETE AND THE SITE IS PERMANENTLY STABILIZED IN ACCORDANCE WITH THE SWPPP.
- REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROLS ONCE THE SITE IS PERMANENTLY STABILIZED IN ACCORDANCE WITH THE FINAL RESTORATION PLAN.
- DECOMPACT ALL AREAS THAT WERE SUBJECT TO COMPACTION DURING CONSTRUCTION.

## GENERAL E&S NOTES:

- NO EQUIPMENT, EXCAVATED MATERIALS, OR EARTH DISTURBANCE IS PERMITTED OUTSIDE OF THE CONSTRUCTION LOD.
- CLEAR ONLY WHAT IS REQUIRED FOR IMMEDIATE CONSTRUCTION ACTIVITY. CLEARING SHALL BE PERFORMED AS CONSTRUCTION PROGRESSES. MASS CLEARINGS OF THE ENTIRE SITE SHOULD BE AVOIDED.
- WHEN SOIL DISTURBANCE IS LESS THAN FIVE (5) ACRES AT ANY ONE TIME: IN AREAS WHERE SOIL DISTURBANCE ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED, THE APPLICATION OF SOIL STABILIZATION MEASURES MUST BE INITIATED BY THE END OF THE NEXT BUSINESS DAY AND COMPLETED WITHIN FOURTEEN (14) DAYS FROM THE DATE THE CURRENT SOIL DISTURBANCE ACTIVITY CEASED. D'DFOR AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY TO BE CONSIDERED TEMPORARILY STABILIZED, THE DISTURBED AREAS SHALL BE COVERED WITH ONE OF THE FOLLOWING: A MINIMUM UNIFORM COVERAGE OF MULCH AND SEED WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION AND SEDIMENTATION, OR AN ACCEPTABLE SMP WHICH TEMPORARILY MINIMIZES ACCELERATED EROSION AND SEDIMENTATION.
- STOCKPILE HEIGHTS SHALL BE MINIMIZED AS MUCH AS PRACTICAL WITH SLOPES NO GREATER THAN NATURAL SLOUGHING.
- UNTIL THE SITE IS PERMANENTLY STABILIZED, ALL CONTROLS MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE WEEKLY (OR BIWEEKLY) INSPECTIONS OF ALL CONTROLS AND INSPECTIONS AFTER EACH MEASURABLE RAIN EVENT. ANY DEFICIENCIES SHOULD BE REPAIRED IMMEDIATELY UPON DISCOVERY.

## TEMPORARY PLANTING CRITERIA

WATER MANAGEMENT PRACTICES MUST BE INSTALLED AS APPROPRIATE FOR SITE CONDITIONS. THE AREA MUST BE ROUGH GRADED AND SLOPES PHYSICALLY STABLE. LARGE DEBRIS AND ROCKS ARE USUALLY REMOVED. SEEDBED MUST BE SEEDED WITHIN 24 HOURS OF DISTURBANCE OR SCARIFICATION OF THE SOIL SURFACE WILL BE NECESSARY PRIOR TO SEEDING. FERTILIZER OR LIME ARE NOT TYPICALLY USED FOR TEMPORARY SEEDINGS.

- IF: SPRING OR SUMMER OR EARLY FALL, THEN SEED THE AREA WITH RYEGRASS (ANNUAL OR PERENNIAL) AT 30 LBS. PER ACRE (APPROXIMATELY 0.7 LB./1000 SQ. FT. OR USE 1 LB./1000 SQ. FT.).  
 IF: LATE FALL OR EARLY WINTER, THEN SEED CERTIFIED 'AROSTOOK' WINTER RYE (CEREAL RYE) AT 100 LBS. PER ACRE (2.5 LBS./1000 SQ. FT.).

ANY SEEDING METHOD MAY BE USED THAT WILL PROVIDE UNIFORM APPLICATION OF SEED TO THE AREA AND RESULT IN RELATIVELY GOOD SOIL TO SEED CONTACT. MULCH THE AREA WITH HAY OR STRAW AT 2 TONS/ACRE (APPROX. 90 LBS./1000 SQ. FT. OR 2 BALES). QUALITY OF HAY OR STRAW MULCH ALLOWABLE WILL BE DETERMINED BASED ON LONG TERM USE AND VISUAL CONCERNS. MULCH ANCHORING WILL BE REQUIRED WHERE WIND OR AREAS OF CONCENTRATED WATER ARE OF CONCERN. WOOD FIBER HYDROMULCH OR OTHER SPRAYABLE PRODUCTS APPROVED FOR EROSION CONTROL (NYLON WEB OR MESH) MAY BE USED IF APPLIED ACCORDING TO MANUFACTURERS' SPECIFICATION. CAUTION IS ADVISED WHEN USING NYLON OR OTHER SYNTHETIC PRODUCTS. THEY MAY BE DIFFICULT TO REMOVE PRIOR TO FINAL SEEDING.

## PERMANENT PLANTING CRITERIA

ALL WATER CONTROL MEASURES WILL BE INSTALLED AS NEEDED PRIOR TO FINAL GRADING AND SEEDBED PREPARATION. ANY SEVERELY COMPACTED SECTIONS WILL REQUIRE CHISELING OR DISKING TO PROVIDE AN ADEQUATE ROOTING ZONE, TO A MINIMUM DEPTH OF 12". THE SEEDBED MUST BE PREPARED TO ALLOW GOOD SOIL TO SEED CONTACT, WITH THE SOIL NOT TOO SOFT AND NOT TOO COMPACT. ADEQUATE SOIL MOISTURE MUST BE PRESENT TO ACCOMPLISH THIS. IF SURFACE IS POWDER DRY OR STICKY WET, POSTPONE OPERATIONS UNTIL MOISTURE CHANGES TO A FAVORABLE CONDITION. IF SEEDING IS ACCOMPLISHED WITHIN 24 HOURS OF FINAL GRADING, ADDITIONAL SCARIFICATION IS GENERALLY NOT NEEDED, ESPECIALLY ON DITCH OR STREAM BANKS. REMOVE ALL STONES AND OTHER DEBRIS FROM THE SURFACE THAT ARE GREATER THAN 4 INCHES, OR THAT WILL INTERFERE WITH FUTURE MOWING OR MAINTENANCE. SOIL AMENDMENTS SHOULD BE INCORPORATED INTO THE UPPER 2 INCHES OF SOIL WHEN FEASIBLE. THE SOIL SHOULD BE TESTED TO DETERMINE THE AMOUNTS OF AMENDMENTS NEEDED. APPLY GROUND AGRICULTURAL LIMESTONE TO ATTAIN A PH OF 6.0 IN THE UPPER 2 INCHES OF SOIL. IF SOIL MUST BE FERTILIZED BEFORE RESULTS OF A SOIL TEST CAN BE OBTAINED TO DETERMINE FERTILIZER NEEDS, APPLY COMMERCIAL FERTILIZER AT 600 LBS. PER ACRE OF 5- 10-10 OR EQUIVALENT. IF MANURE IS USED, APPLY A QUANTITY TO MEET THE NUTRIENTS OF THE ABOVE FERTILIZER. THIS REQUIRES AN APPROPRIATE MANURE ANALYSIS PRIOR TO APPLYING TO THE SITE. DO NOT USE MANURE ON SITES TO BE PLANTED WITH BIRDSFOOT TREFLOIL OR IN THE PATH OF CONCENTRATED WATER FLOW. SEED MIXTURES MAY VARY DEPENDING ON LOCATION WITHIN THE STATE AND TIME OF SEEDING. GENERALLY, WARM SEASON GRASSES SHOULD ONLY BE SEEDED DURING EARLY SPRING, APRIL TO MAY. THESE GRASSES ARE PRIMARILY USED FOR VEGETATING EXCESSIVELY DRAINED SANDS AND GRAVELS. OTHER GRASSES MAY BE SEEDED ANY TIME OF THE YEAR WHEN THE SOIL IS NOT FROZEN AND IS WORKABLE. WHEN LEGUMES SUCH AS BIRDSFOOT TREFLOIL ARE INCLUDED, SPRING SEEDINGS ARE PREFERRED.

### GENERAL SEED MIX:

	VARIETY	LBS./ACRE	LBS./1000 SQ. FT.
BIRDSFOOT TREFLOIL, OR COMMON WHITE CLOVER <sup>1</sup>	EMPIRE/PARDEE	8 <sub>2</sub>	0.20
	COMMON	8	0.20
<b>PLUS</b>			
TALL FESCUE	KY-31/REBEL	20	0.45
<b>PLUS</b>			
REDFTOP OR RYEGRASS (PERENNIAL)	COMMON PENNFINE/LINN	2 5	0.05 0.10

<sup>1</sup> ADD INOCULANT IMMEDIATELY PRIOR TO SEEDING

<sup>2</sup> MIX 4 LBS EACH OF EMPIRE AND PARDEE OR 4 LBS OF BIRDSFOOT AND 4 LBS WHITE CLOVER PER ACRE.

TIME OF SEEDING: THE OPTIMUM TIMING FOR THE GENERAL SEED MIXTURE IS EARLY SPRING. PERMANENT SEEDINGS MAY BE MADE ANY TIME OF YEAR IF PROPERLY MULCHED AND ADEQUATE MOISTURE IS PROVIDED. LATE JUNE THROUGH EARLY AUGUST IS NOT A GOOD TIME TO SEED, BUT MAY FACILITATE COVERING THE LAND WITHOUT ADDITIONAL DISTURBANCE IF CONSTRUCTION IS COMPLETED. PORTIONS OF THE SEEDING MAY FAIL DUE TO DROUGHT AND HEAT. THESE AREAS MAY NEED RESEEDING IN LATE SUMMER/FALL OR THE FOLLOWING SPRING.

METHOD OF SEEDING: BROADCASTING, DRILLING, CULTIPACK TYPE SEEDING, OR HYDROSEEDING ARE ACCEPTABLE METHODS. PROPER SOIL TO SEED CONTACT IS KEY TO SUCCESSFUL SEEDINGS.

HYDROSEED DOES NOT REQUIRE SEPARATE APPLICATION OF MULCH AND SHALL BE PROVIDED ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS.

IRRIGATION: WATERING MAY BE ESSENTIAL TO ESTABLISH A NEW SEEDING WHEN A DROUGHT CONDITION OCCURS SHORTLY AFTER A NEW SEEDING EMERGES. IRRIGATION IS A SPECIALIZED PRACTICE AND CARE MUST BE TAKEN NOT TO EXCEED THE APPLICATION RATE FOR THE SOIL OR SUBSOIL. WHEN DISCONNECTING IRRIGATION PIPE, BE SURE PIPES ARE DRAINED IN A SAFE MANOR, NOT CREATING AN EROSION CONCERN.

## TOPSOIL

### SITE PREPARATION

- AS NEEDED, INSTALL EROSION CONTROL PRACTICES SUCH AS DIVERSIONS, CHANNELS, SEDIMENT TRAPS, AND STABILIZING MEASURES, OR MAINTAIN IF ALREADY INSTALLED.
- COMPLETE ROUGH GRADING AND FINAL GRADE, ALLOWING FOR DEPTH OF TOPSOIL TO BE ADDED.
- SCARIFY ALL COMPACT, SLOWLY PERMEABLE, MEDIUM AND FINE TEXTURED SUBSOIL AREAS. SCARIFY AT APPROXIMATELY RIGHT ANGLES TO THE SLOPE DIRECTION IN SOIL AREAS THAT ARE STEEPER THAN 5 PERCENT. AREAS THAT HAVE BEEN OVERLY COMPACTED SHALL BE DECOMPACTED TO A MINIMUM DEPTH OF 12 INCHES WITH A DEEP RIPPER OR CHISEL PLOW PRIOR TO TOPSOILING.
- REMOVE REFUSE, WOODY PLANT PARTS, STONES OVER 3 INCHES IN DIAMETER, AND OTHER LITTER.

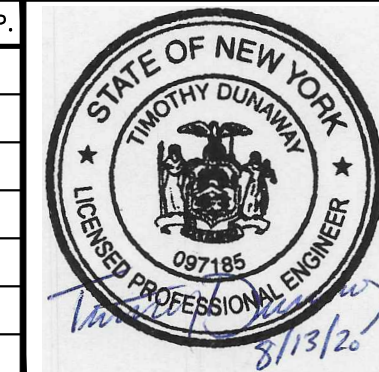
### TOPSOIL MATERIALS

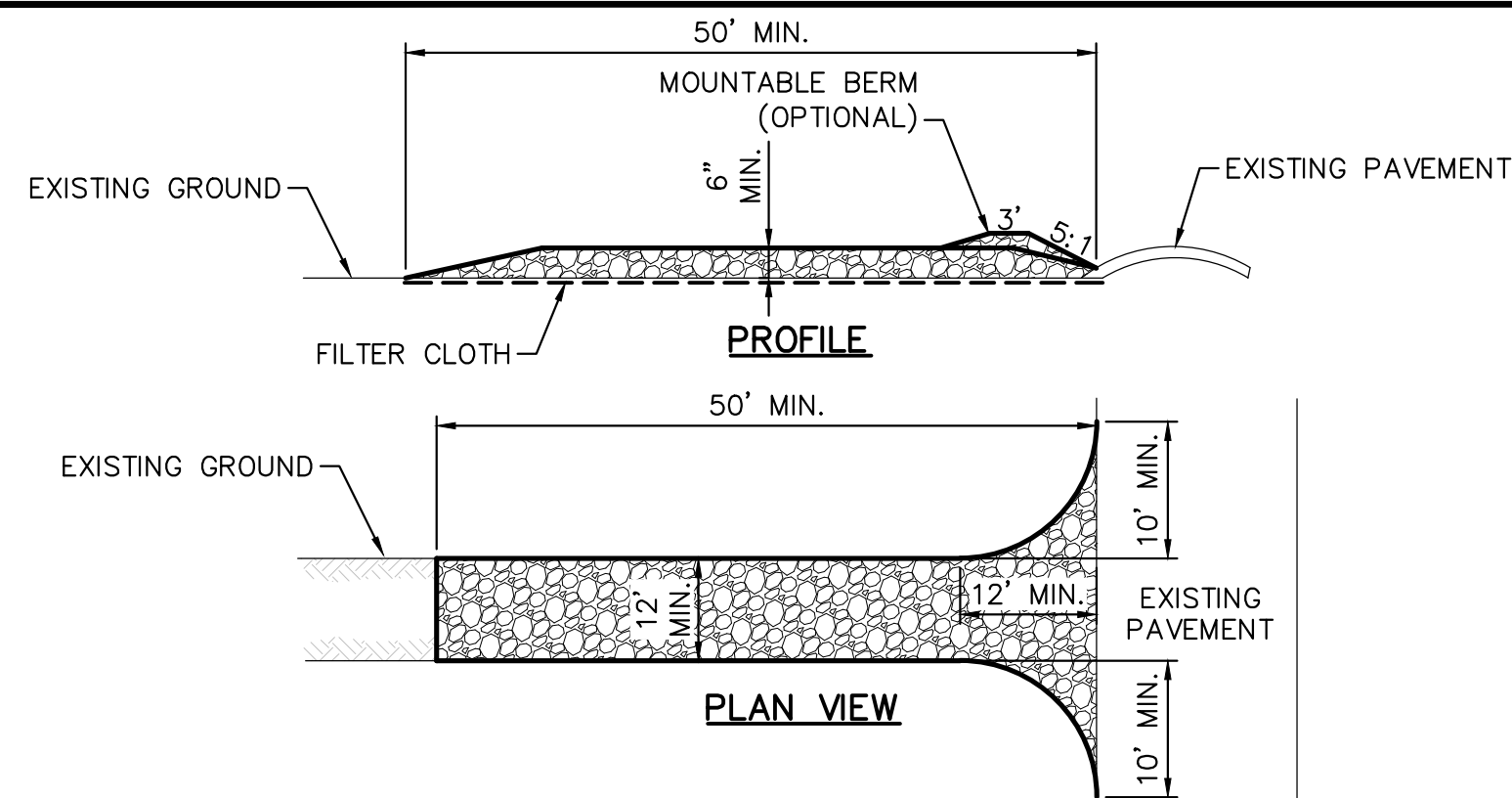
- TOPSOIL SHALL HAVE AT LEAST 6 PERCENT BY WEIGHT OF FINE TEXTURED STABLE ORGANIC MATERIAL, AND NO GREATER THAN 20 PERCENT. MUCK SOIL SHALL NOT BE CONSIDERED TOPSOIL.
- TOPSOIL SHALL HAVE NOT LESS THAN 20 PERCENT FINE TEXTURED MATERIAL (PASSING THE NO. 200 SIEVE) AND NOT MORE THAN 15 PERCENT CLAY.
- TOPSOIL TREATED WITH SOIL STERILANTS OR HERBICIDES SHALL BE SO IDENTIFIED TO THE PURCHASER.
- TOPSOIL SHALL BE RELATIVELY FREE OF STONES OVER 1 ½ INCHES IN DIAMETER, TRASH, NOXIOUS WEEDS SUCH AS NUT SEDGE AND QUACKGRASS, AND WILL HAVE LESS THAN 10 PERCENT GRAVEL.
- TOPSOIL CONTAINING SOLUBLE SALTS GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED.

### APPLICATION AND GRADING

- TOPSOIL SHALL BE DISTRIBUTED TO A UNIFORM DEPTH OVER THE AREA. IT SHALL NOT BE PLACED WHEN IT IS PARTLY FROZEN, MUDDY, OR ON FROZEN SLOPES OR OVER ICE, SNOW, OR STANDING WATER PUDDLES.
- TOPSOIL PLACED AND GRADED ON SLOPES STEEPER THAN 5 PERCENT SHALL BE PROMPTLY FERTILIZED, SEEDED, MULCHED, AND STABILIZED BY "TRACKING" WITH SUITABLE EQUIPMENT.

GENERAL NOTES AND COMMENTS:	SYM.	DATE	BY	REVISION INFORMATION		PROJECT/TASK	APP.	ORIGINAL CONSTRUCTION INFORMATION		Dominion Transmission, Inc. 707 EAST MAIN STREET RICHMOND, VA 23219				
				NO.	DESCRIPTION			PROJECT/TASK: 212C-BF--00135	DATE: 1/14/2020	FOR: BORGER REPLACEMENT PROJECT	TITLE: EROSION & SEDIMENT CONTROL NOTES	TOWN: DRYDEN, NY	COUNTY: TOMPKINS	GROUP
								APP. FOR BID: --						
								APP. FOR CONST.: --						
								SCALE: NOT TO SCALE						





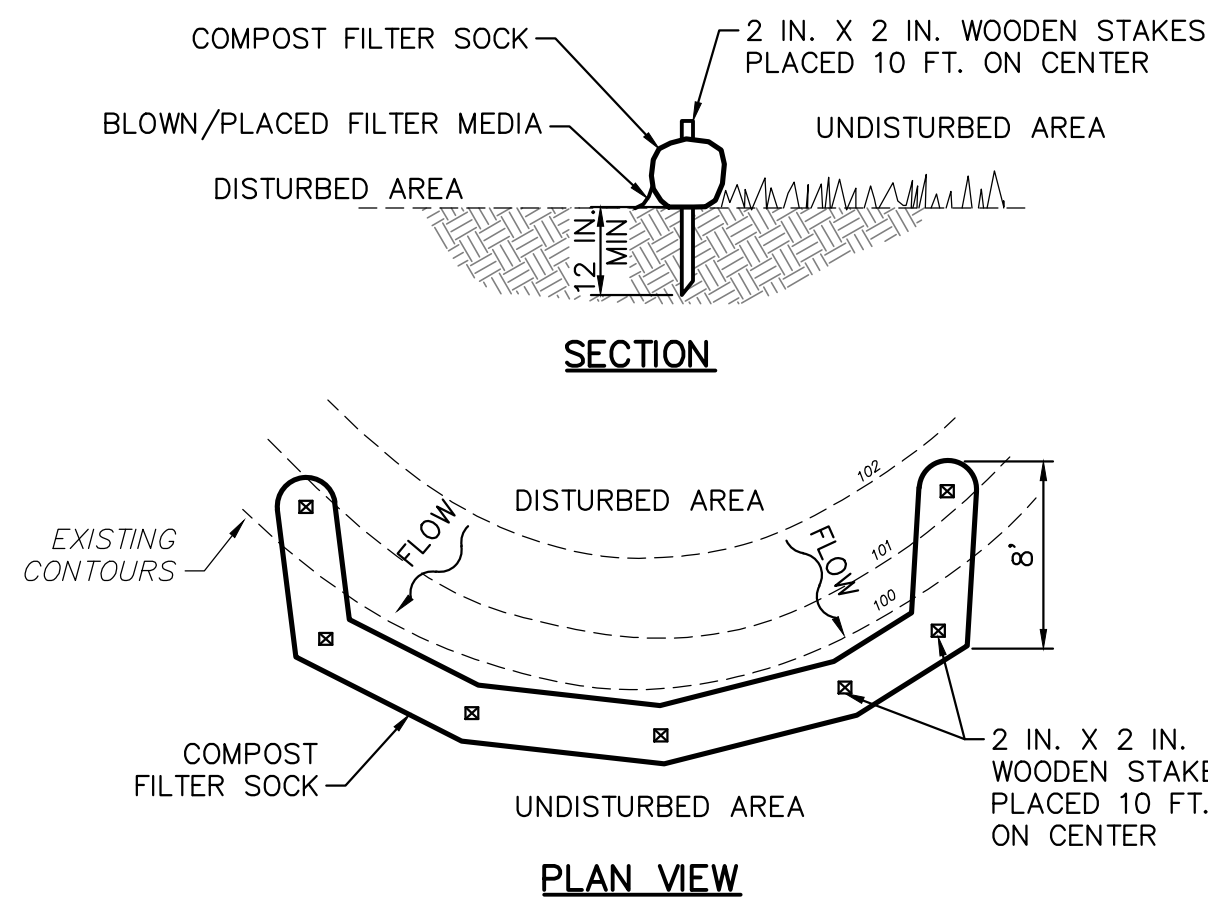
**CONSTRUCTION SPECIFICATIONS**

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

**STABILIZED CONSTRUCTION ENTRANCE DETAIL**

NOT TO SCALE

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DIA. (IN.)	SLOPE %						
	2	5	10	20	25	33	50
8	225*	200	100	50	20	--	--
12	250	225	125	65	50	40	25
18	275	250	150	70	55	45	30
24	350	275	200	130	100	60	35
32	450	325	275	150	120	75	50

NOTE: \*LENGTH IN FEET

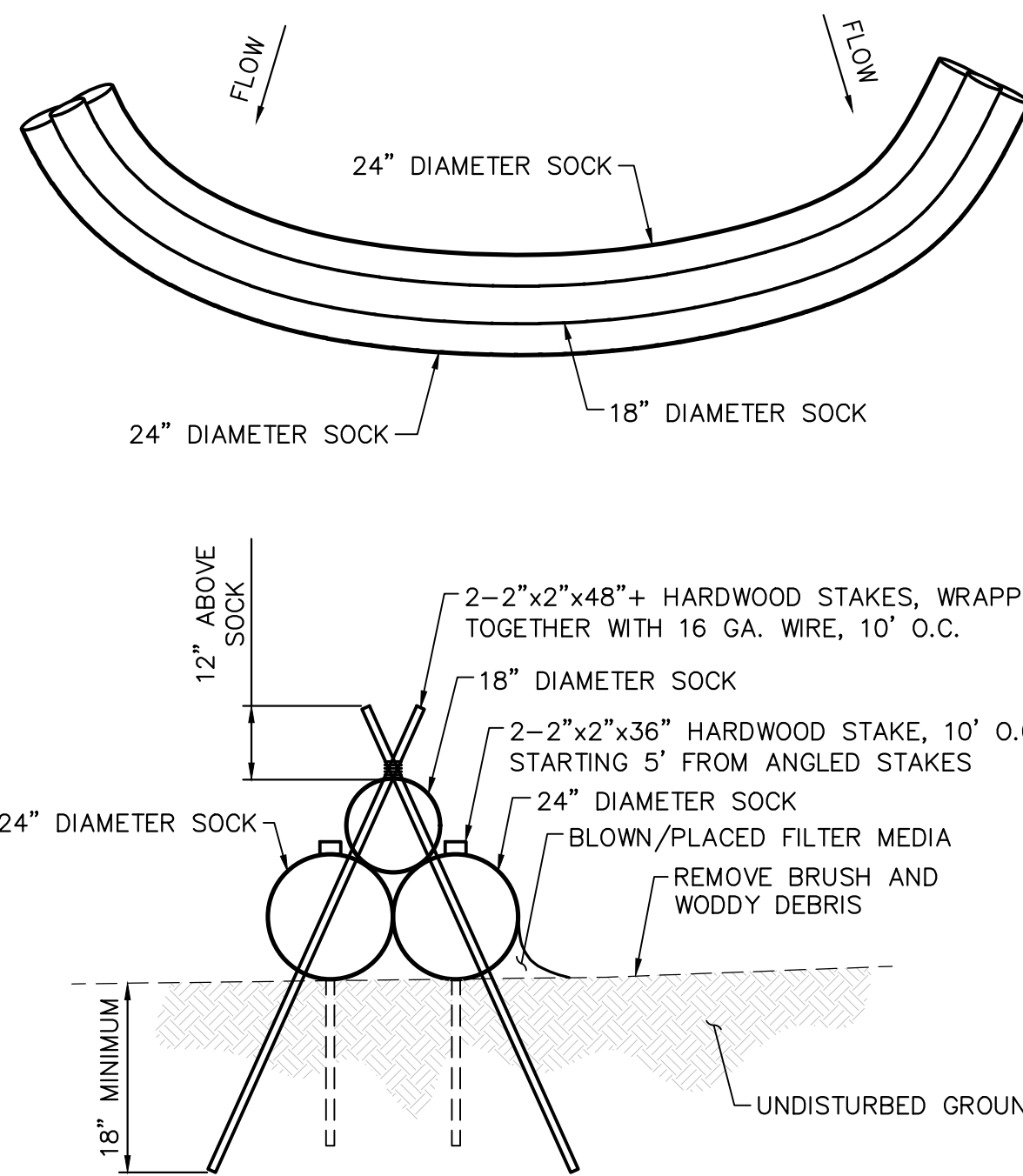
**MAINTENANCE NOTES:**

1. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED OF IN ACCORDANCE WITH THE PLAN.
3. SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED IN THE MANNER REQUIRED BY THE MANUFACTURER OR REPLACES WITHIN 24 HOURS OF INSPECTION NOTIFICATION.
4. BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE FILTER SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
5. UPON STABILIZATION OF THE AREA CONTRIBUTORY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED IN ACCORDANCE WITH THE STABILIZATION PLAN. FOR REMOVAL THE MESH CAN BE CUT AND THE COMPOST SPREAD AS AN ADDITIONAL MULCH TO ACT AS A SOIL SUPPLEMENT.

**COMPOST FILTER SOCK**

(FROM NY E&S MANUAL)  
NOT TO SCALE

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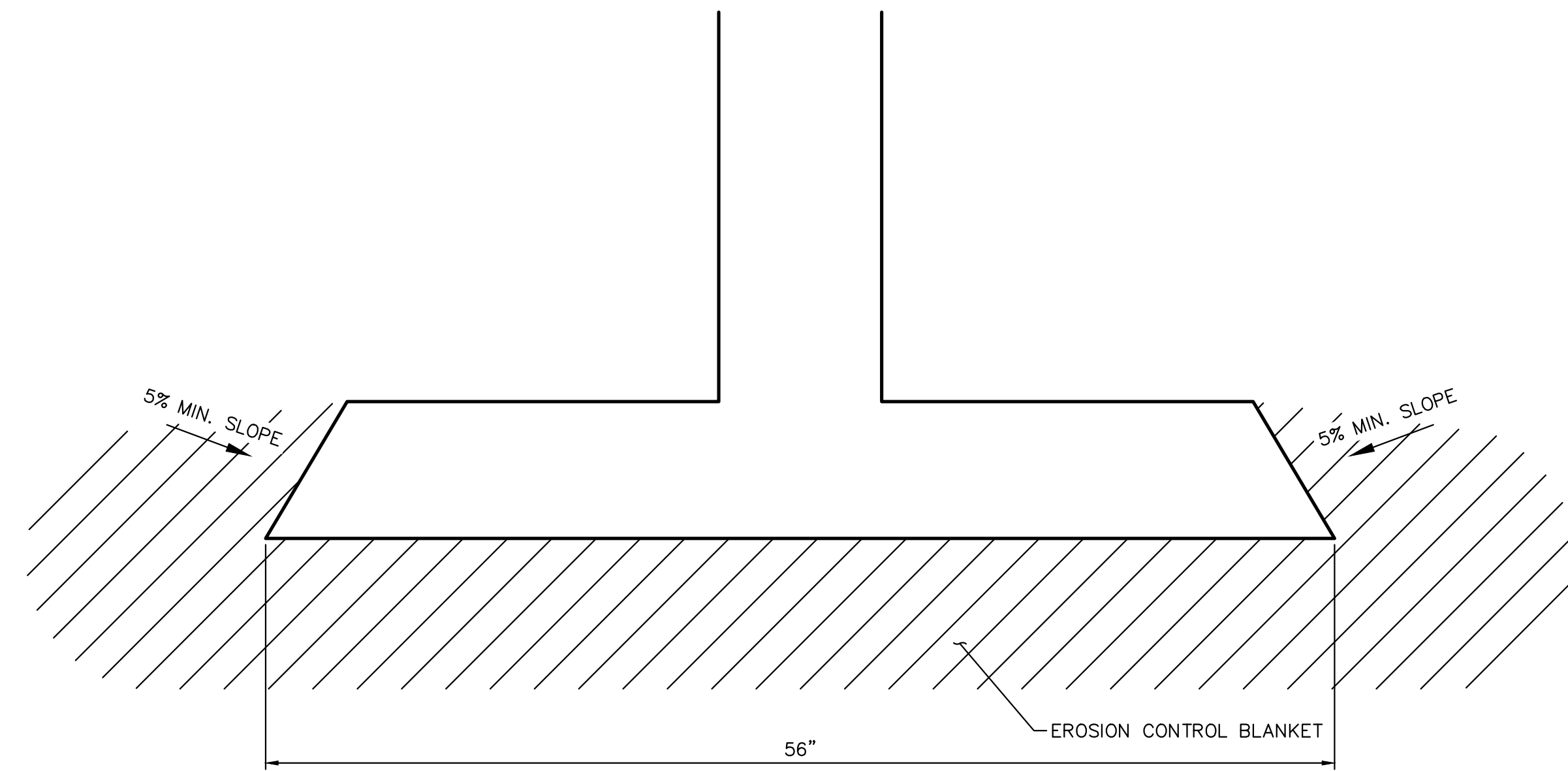
**NOTES:**

1. COMPOST SOCK SEDIMENT TRAP SHALL BE SIZED TO PROVIDE 2,000 CUBIC FEET OF STORAGE CAPACITY FOR EACH ACRE TRIBUTARY TO THE TRAP.
2. MINIMUM BASE WIDTH IS EQUIVALENT TO THE HEIGHT.
3. SEDIMENT ACCUMULATION SHALL NOT EXCEED 1/3 THE HEIGHT OF THE TRAP.
4. SOCKS SHALL BE OF LARGER DIAMETER AT THE BASE OF THE TRAP AND DECREASE IN DIAMETER FOR SUCCESSIVE LAYERS AS INDICATED.
5. ENDS OF THE TRAP SHALL BE A MINIMUM OF 1-FOOT HIGHER IN ELEVATION THAN THE MID-SECTION, WHICH SHALL BE LOCATED AT THE POINT OF DISCHARGE.
6. COMPOST SOCK TRAPS SHALL NOT EXCEED THREE SOCKS IN HEIGHT AND SHALL BE STACKED IN PYRAMIDAL FORM AS SHOWN ABOVE. MINIMUM TRAP HEIGHT IS ONE 24" DIAMETER SOCK. ADDITIONAL STORAGE MAY BE PROVIDED BY MEANS OF AN EXCAVATED SUMP 12" DEEP EXTENDING 1 TO 3 FEET UPSLOPE OF THE SOCKS.
7. COMPOST SOCK TRAPS SHALL PROVIDE 2,000 CUBIC FEET STORAGE CAPACITY WITH 12" FREEBOARD FOR EACH TRIBUTARY DRAINAGE AREA.
8. THE MAXIMUM TRIBUTARY DRAINAGE AREA IS 5.0 ACRES. SINCE COMPOST SOCKS ARE "FLOW-THROUGH", NO SPILLWAY IS REQUIRED.
9. PHOTODEGRADABLE AND BIODEGRADABLE SOCKS SHALL NOT BE USED FOR MORE THAN 1 YEAR.

**COMPOST SOCK SEDIMENT TRAP DETAIL**

NOT TO SCALE

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**PLAN VIEW**



**SECTION VIEW**

**NOTE:**

INSTALL EROSION CONTROL BLANKET BEYOND LIP WHERE VEGETATION IS NOT ESTABLISHED

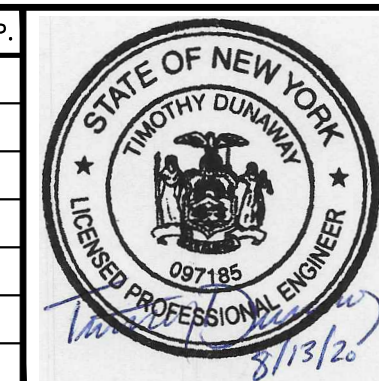
**TEMPORARY FLOW SPREADER DETAIL**

NOT TO SCALE

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GENERAL NOTES AND COMMENTS:

SYM.	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.
	7/27/20	TD	REVISED PER TOWN OF DRYDEN COMMENTS		



ORIGINAL CONSTRUCTION INFORMATION	
PROJECT/TASK: 212C-BF-00135	
DRAWN: DZ	1/14/2020
CHECKED: TB	1/17/2020
APP. FOR BID:	
APP. FOR CONST.:	
SCALE:	NOT TO SCALE

Dominion Transmission, Inc.		707 EAST MAIN STREET RICHMOND, VA 23219	
FOR: BORGER REPLACEMENT PROJECT		TITLE: CONSTRUCTION AND E&S CONTROL DETAILS	
TOWN: DRYDEN, NY	COUNTY: TOMPKINS	GROUP:	DWG. NO. C-7
DIR/FILE:		REV.:	0