

# THREE CORNERS SOLAR GENERATOR LEAD LINE PROJECT

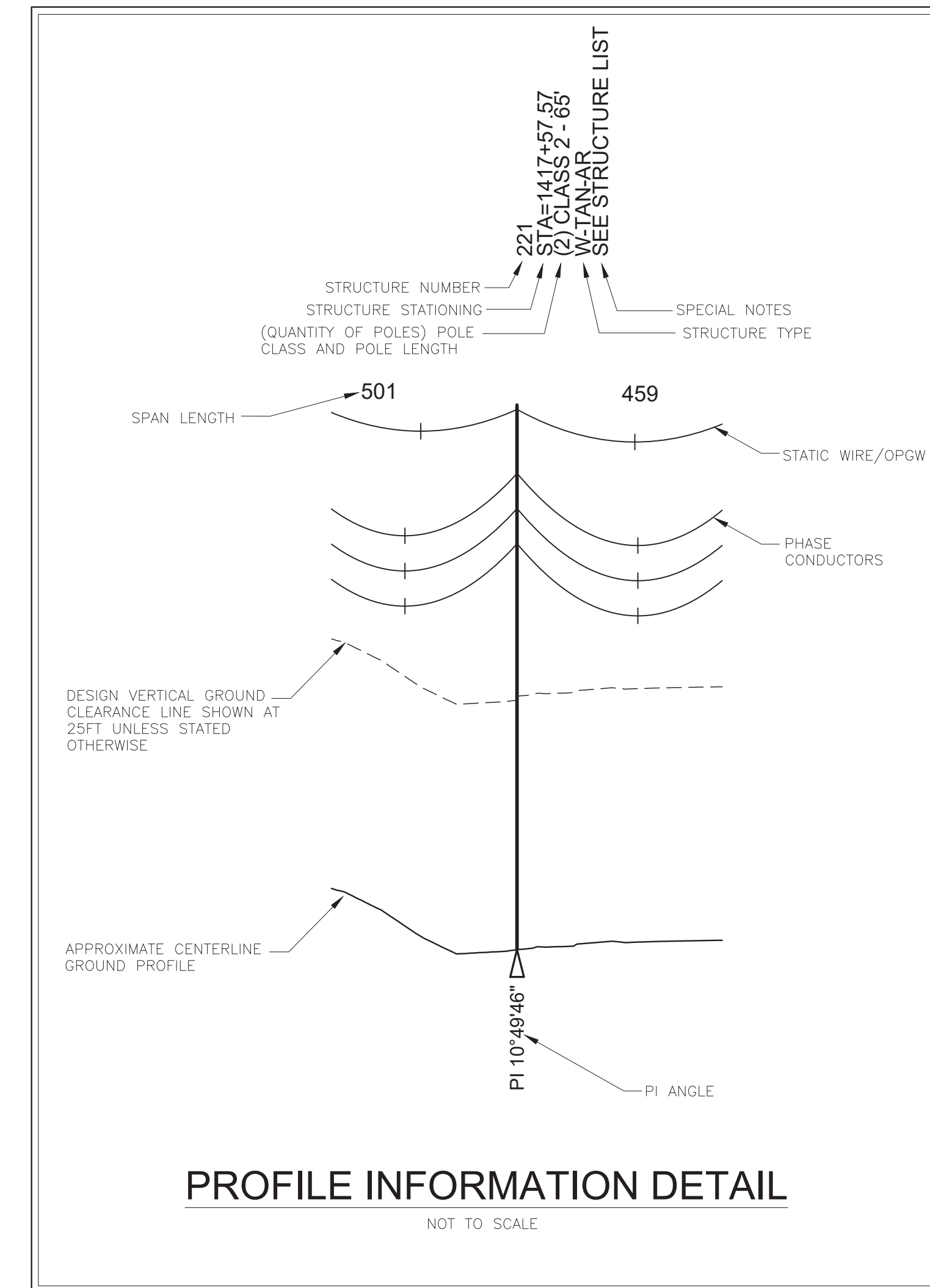
115 kV TRANSMISSION LINE  
KENNEBEC COUNTY, MAINE



PRELIMINARY  
NOT FOR CONSTRUCTION  
REV. 0  
JANUARY 26, 2022

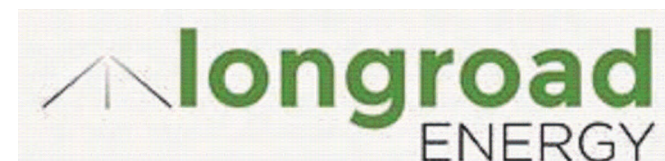
LONGROAD ENERGY THREE CORNERS SOLAR GENERATOR LEAD LINE SGC PROJECT NUMBER 1166004			
DRAWING NUMBER	SH.	TITLE	REV.
11660-11-1100	SH. 1 OF 3	COVER	0
11660-11-1100	SH. 2 OF 3	DRAWING INDEX & LEGENDS	0
11660-11-1100	SH. 3 OF 3	KEY SHEET OVERVIEW	0
11660-12-1200	SH. 1 OF 5	PLAN AND PROFILE	0
11660-12-1200	SH. 2 OF 5	PLAN AND PROFILE	0
11660-12-1200	SH. 3 OF 5	PLAN AND PROFILE	0
11660-12-1200	SH. 4 OF 5	PLAN AND PROFILE	0
11660-12-1200	SH. 5 OF 5	PLAN AND PROFILE	0
11660-13-1250	SH. 1 OF 1	TYPICAL STRUCTURE TYPES	0
11660-13-1300	SH. 1 OF 3	EROSION CONTROL DETAILS	0
11660-13-1300	SH. 2 OF 3	EROSION CONTROL DETAILS	0
11660-13-1300	SH. 3 OF 3	EROSION CONTROL DETAILS	0

PLAN LEGEND	
	PROPOSED ANCHOR
	PROPOSED STRUCTURE
	EXISTING STRUCTURE
	CENTERLINE PROPOSED TRANSMISSION LINE
	EXISTING TRANSMISSION LINE
	EXISTING OVERHEAD DISTRIBUTION LINE
	ROW ACCESS
	SIGNIFICANT VERNAL POOL (250FT SETBACK)
	PROPERTY BOUNDARIES
	EASEMENT AREA
	CLEARING LIMITS
	DEER WINTERING AREA
	WATER
	WETLAND
	VERNAL POOL
	TEMPORARY LAYDOWN AREA
	PULLING PAD



- NOTES:
- OPGW AND 7#8 STATIC DISPLAYED AT 90°.
  - PHASE CONDUCTORS (795 ACSR "DRAKE") DISPLAYED AT UPLIFT, 60°, AND 212°.
  - GROUND CLEARANCE LINE SHOWN AT 25'.
  - CENTERLINE ELEVATIONS BASED ON DATA PROVIDED BY LONGROAD.
  - WETLAND AND VERNAL POOL DATA FROM LONGROAD.
  - THE DATA SET FILES REFERENCED IN THIS DESIGN ARE AS FOLLOWS:  
 3cornersolar\_1ft\_cnts  
 three\_corners\_centerline\_20201010\_tm  
 Three\_Corners\_Tline\_Culvert  
 ThreeCorners\_Tline\_Heron\_Rookery  
 ThreeCorners\_Tline\_OpenWaterFeature  
 3c\_tline\_access  
 3c\_property\_20210928  
 3c\_clearing\_20220119  
 3C\_DelineatedStreams  
 3C\_DelineatedVernalPool\_poly  
 3C\_DelineatedVernalPool\_SVP\_250  
 3c\_genlead\_easement\_20220119  
 3c\_row\_landings\_20211213  
 Delineated\_Streams\_20211229  
 Delineated\_Wetlands\_20211229  
 Maine\_Deer\_Wintering\_Areas

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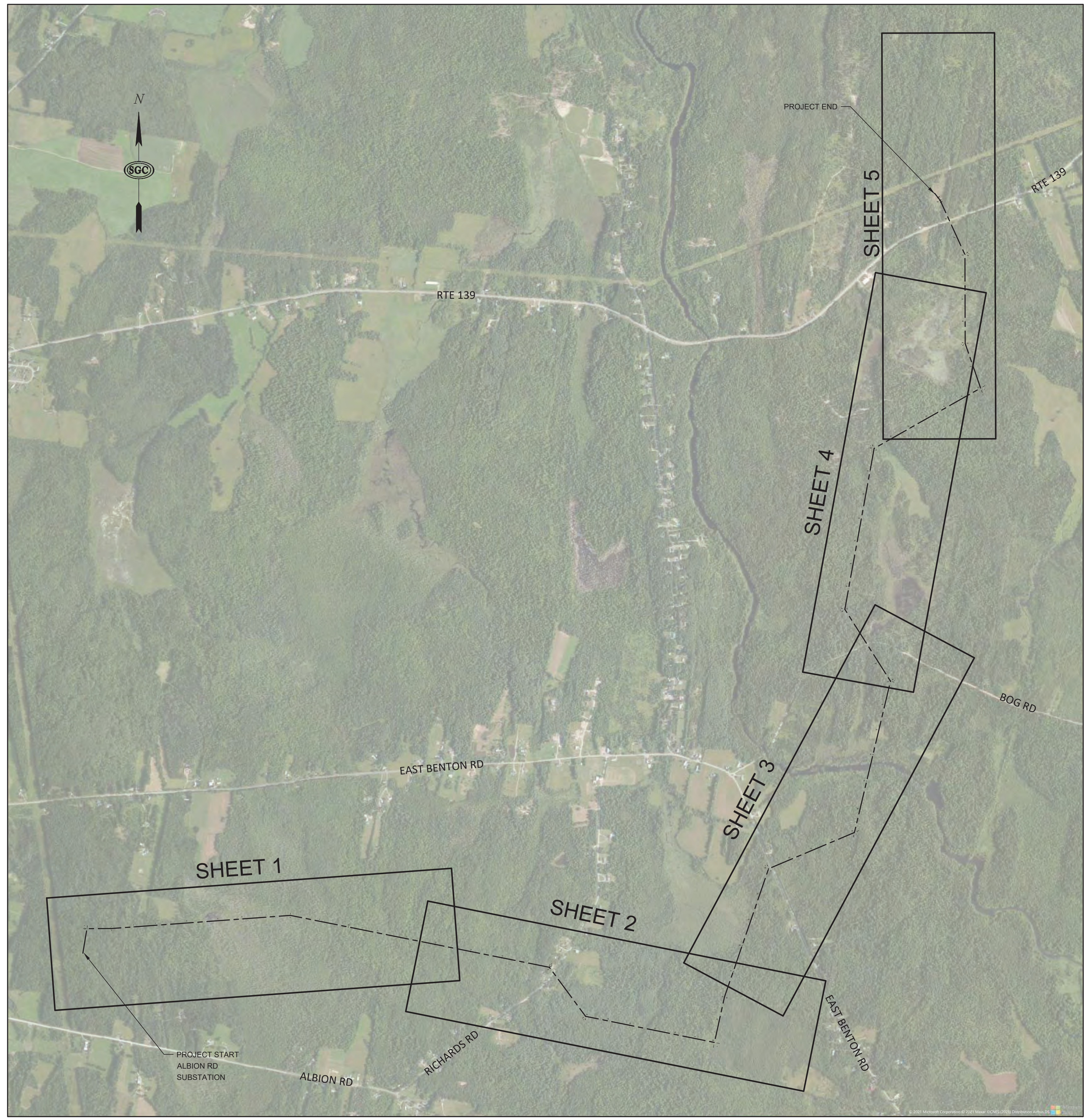
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OCTOBER 29, 2021	AS NOTED	SJF	DLH	NRB

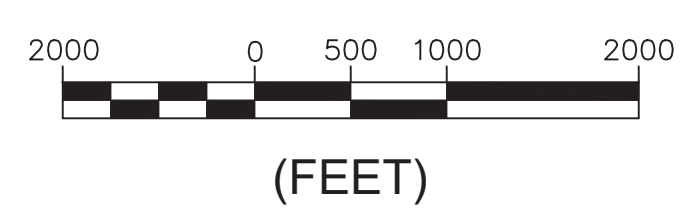
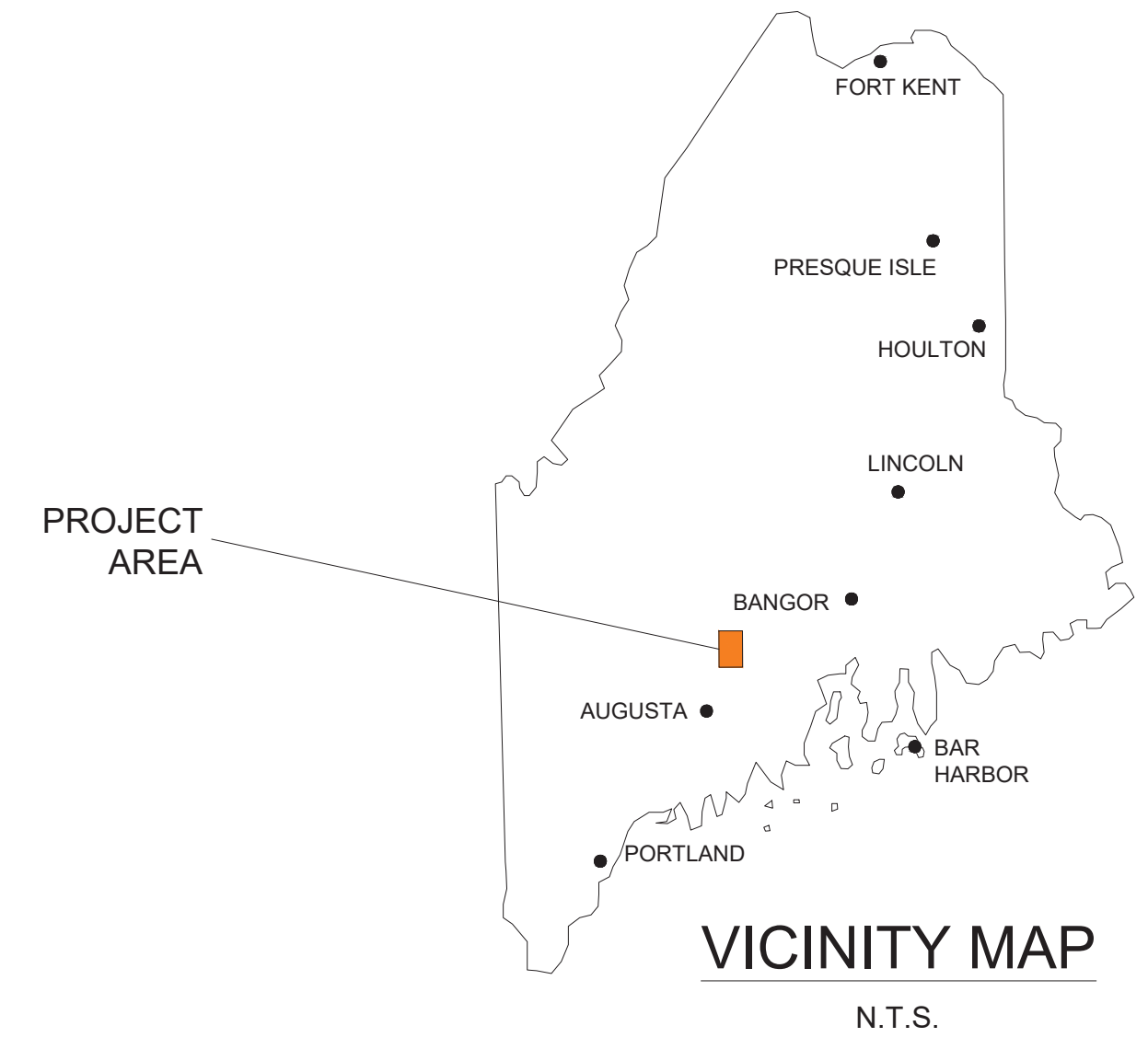
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NO.	REVISIONS:	APPD:	DATE:	TITLE:	SGC PROJECT NUMBER
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				PROJECT: THREE CORNERS SOLAR KENNEBEC COUNTY, MAINE	DRAWING NUMBER 11660-11-1100
				CLIENT: LONGROAD ENERGY MANAGEMENT, LLC 330 CONGRESS ST., BOSTON, MA 02210	REVISION 
					SHEET NUMBER 2 OF 3

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**LOCATION PLAN**



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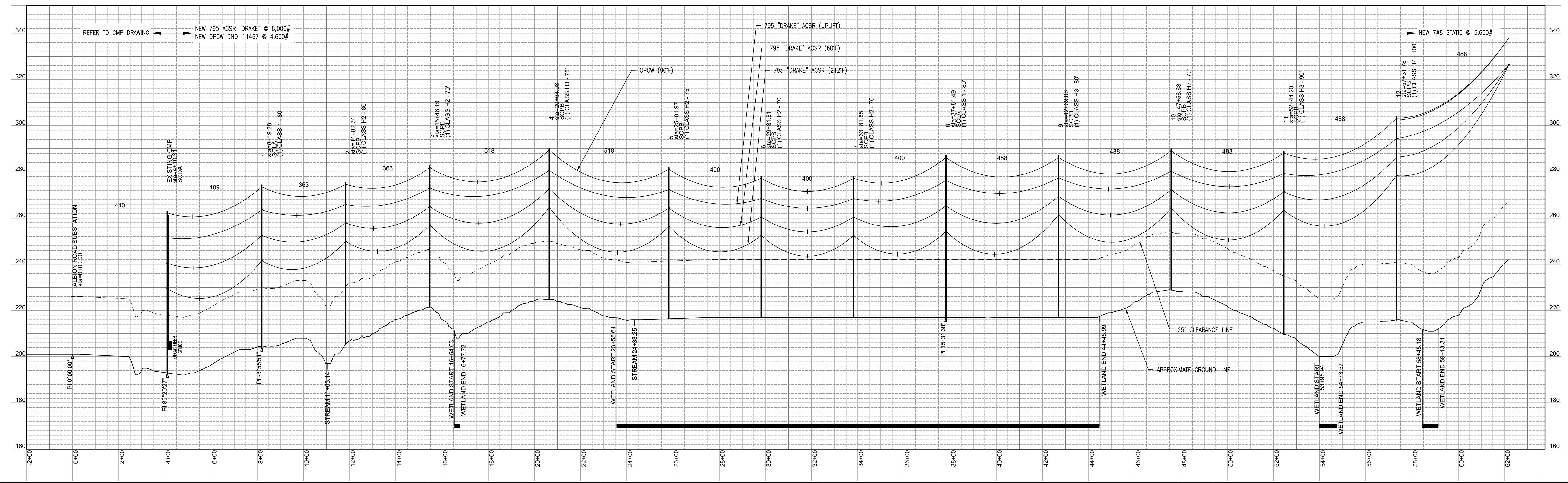
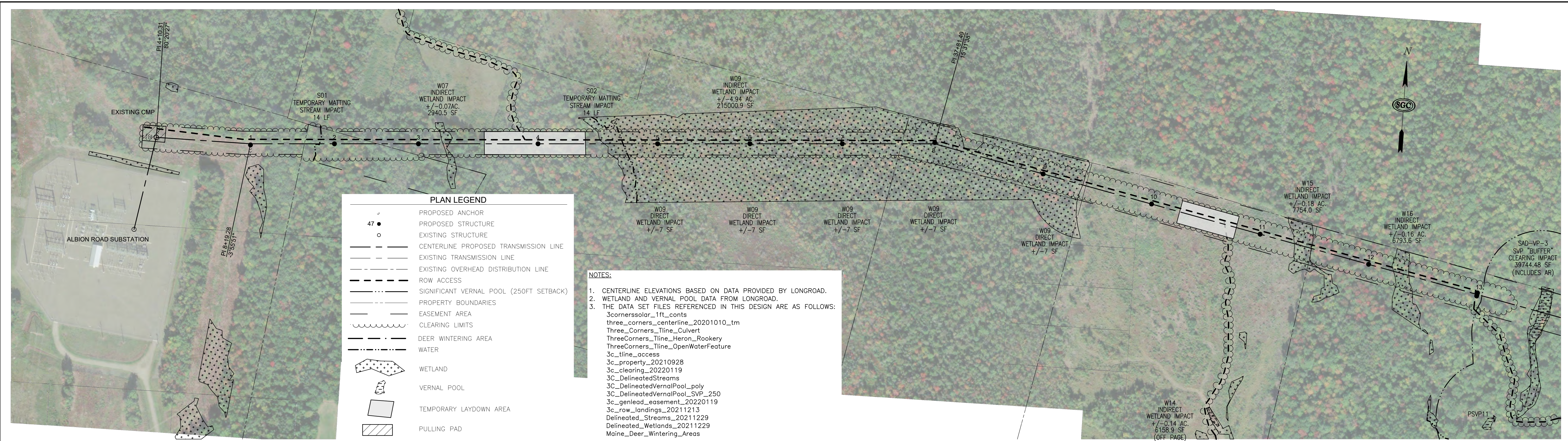
DATE: OCTOBER 29, 2021    SCALE: AS NOTED    DRAWN: SJF    DESIGN: DLH    APPROVED: NRB

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NO.	REVISIONS:	APPD:	DATE:
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TITLE:	115 kV GENERATOR LEAD LINE KEY SHEET
PROJECT:	THREE CORNERS SOLAR KENNEBEC COUNTY, MAINE
CLIENT:	LONGROAD ENERGY MANAGEMENT, LLC 330 CONGRESS ST., BOSTON, MA 02210

SGC PROJECT NUMBER	1166004
DRAWING NUMBER	11660-11-1100
REVISION	△
SHEET NUMBER	3 OF 3



HORIZONTAL GRAPHIC SCALE  
(FEET)

VERTICAL GRAPHIC SCALE  
(FEET)

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DRAWN: SJF

DESIGN: DLH

APPROVED: NRB

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TITLE: 115 kV GENERATOR LEAD LINE  
PLAN & PROFILE

PROJECT: THREE CORNERS SOLAR  
KENNEBEC COUNTY, MAINE

CLIENT: LONGROAD ENERGY MANAGEMENT, LLC  
330 CONGRESS ST., BOSTON, MA 02210

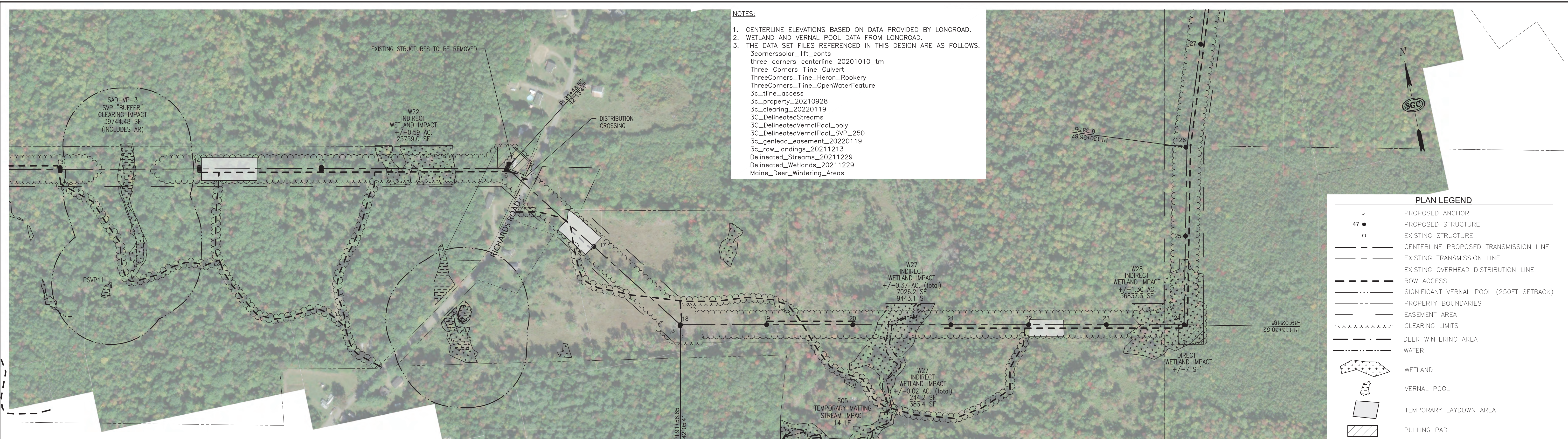
SGC PROJECT NUMBER: 1166004

DRAWING NUMBER: 11660-12-1200

REVISION:

SHEET NUMBER: 1 OF 5

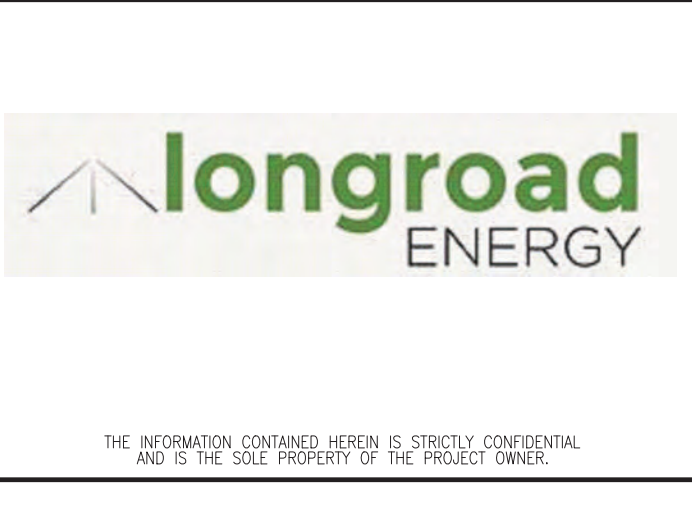
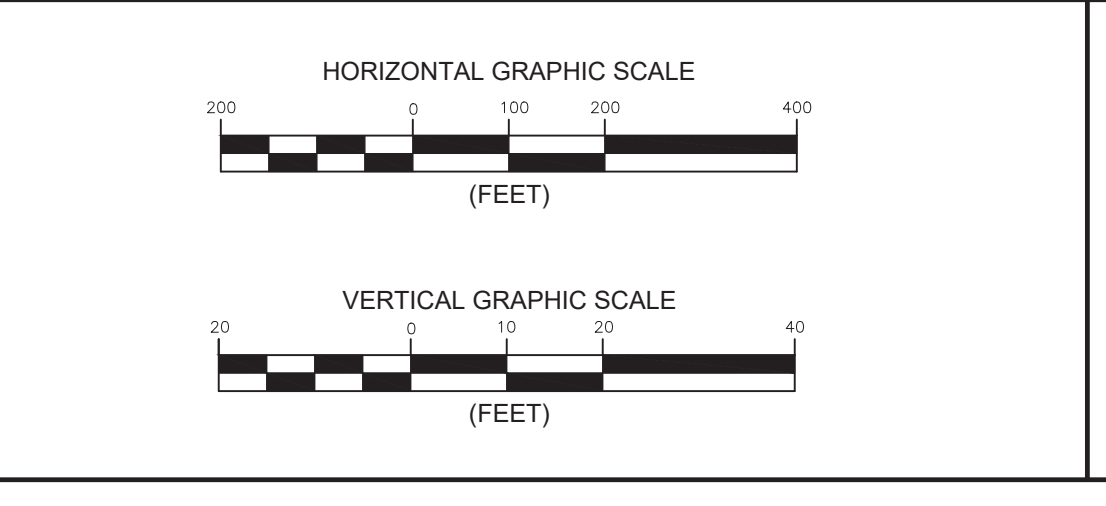
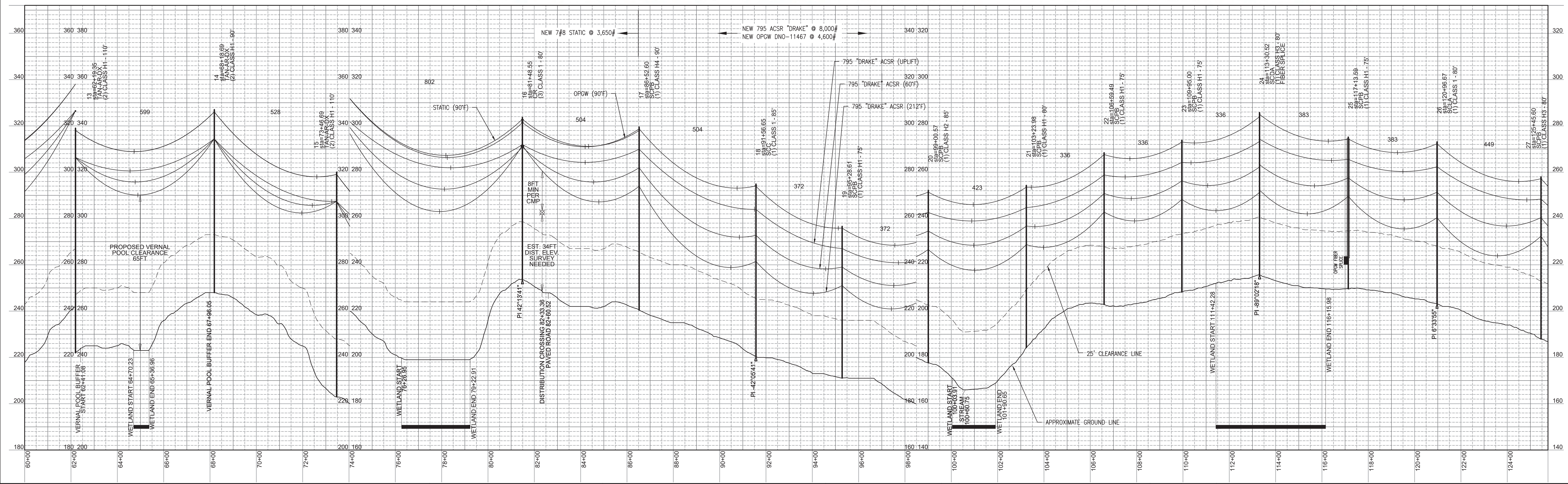
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- NOTES:
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 Delineated\_Streams\_20211229  
 Delineated\_Wetlands\_20211229  
 Maine\_Deer\_Wintering\_Areas

**PLAN LEGEND**

	PROPOSED ANCHOR
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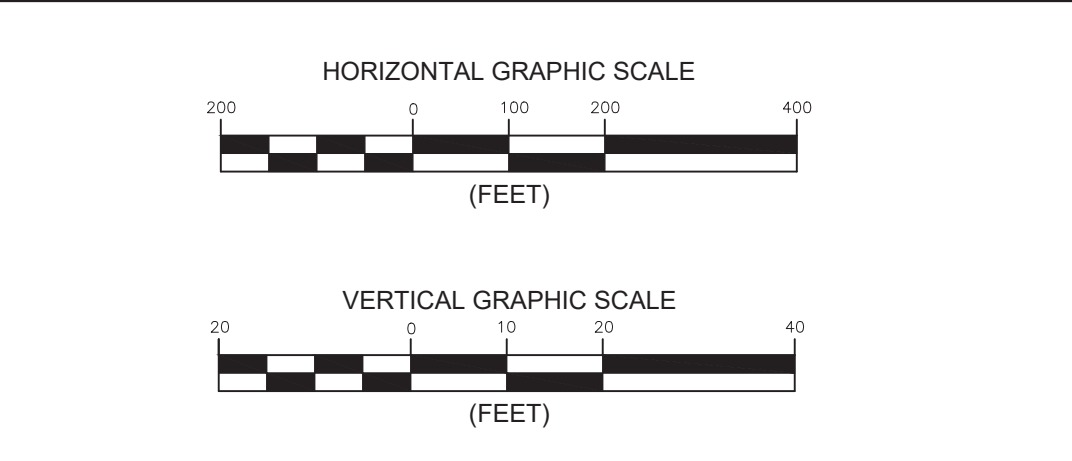
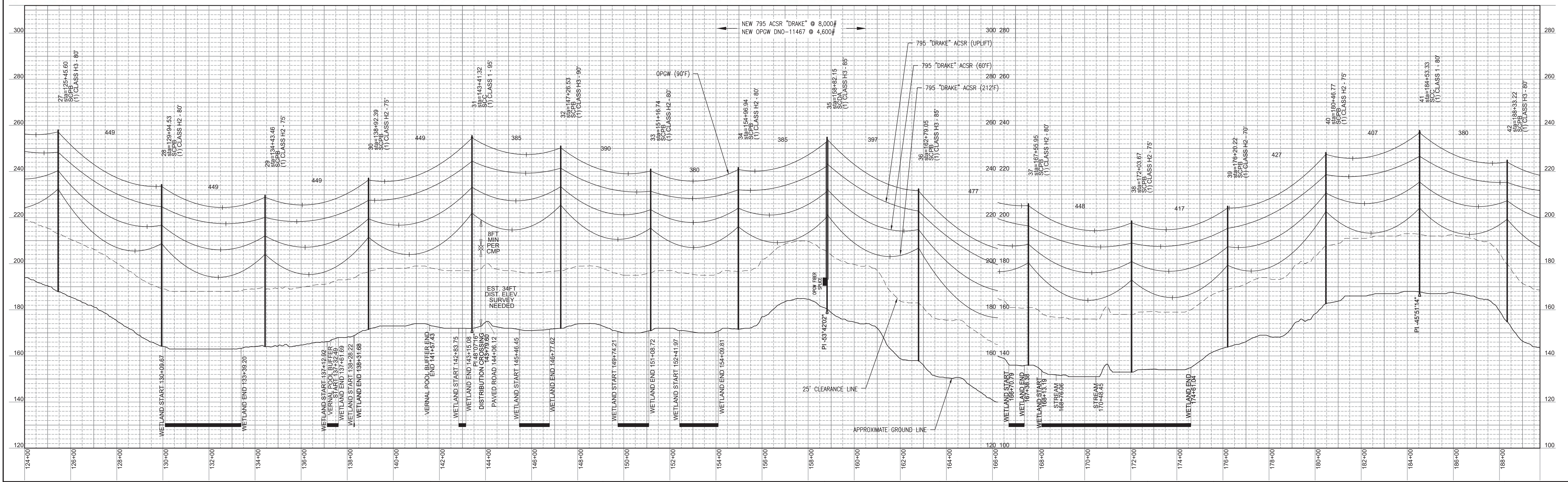
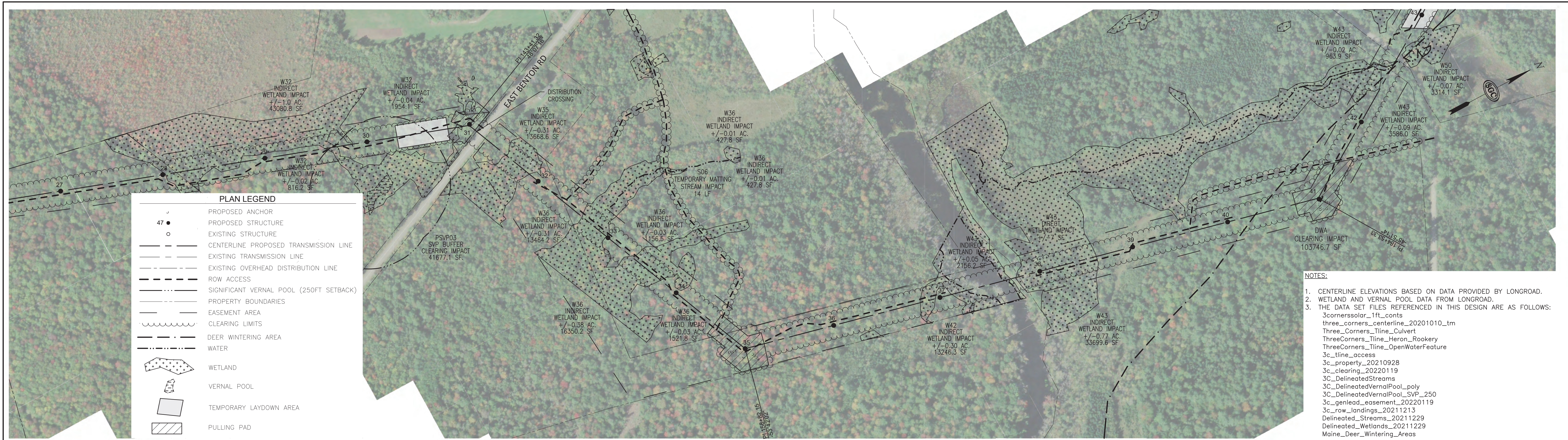
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PROJECT:	THREE CORNERS SOLAR KENNEBEC COUNTY, MAINE	DRAWING NUMBER	11660-12-1200
CLIENT:	LONGROAD ENERGY MANAGEMENT, LLC 330 CONGRESS ST., BOSTON, MA 02210	REVISION	
		SHEET NUMBER	2 OF 5

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		SHEET NUMBER:	3 OF 5

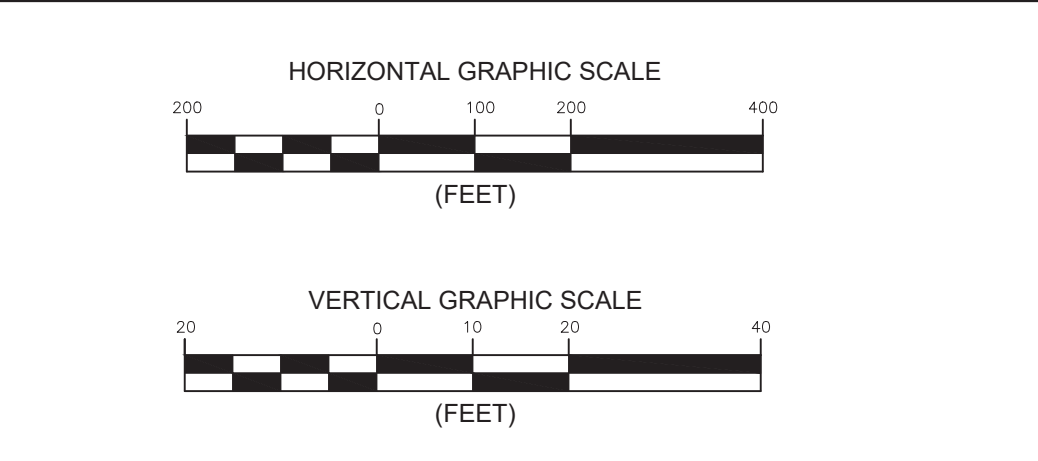
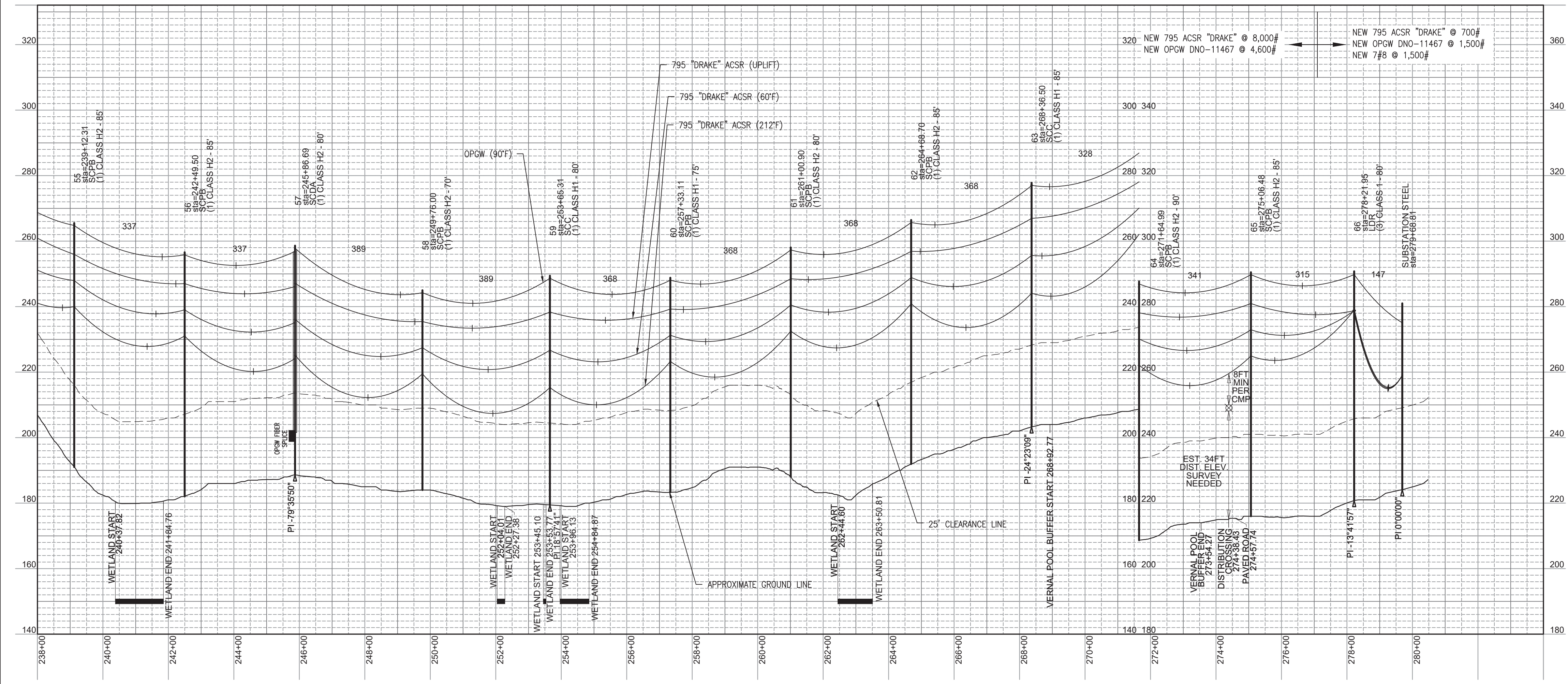
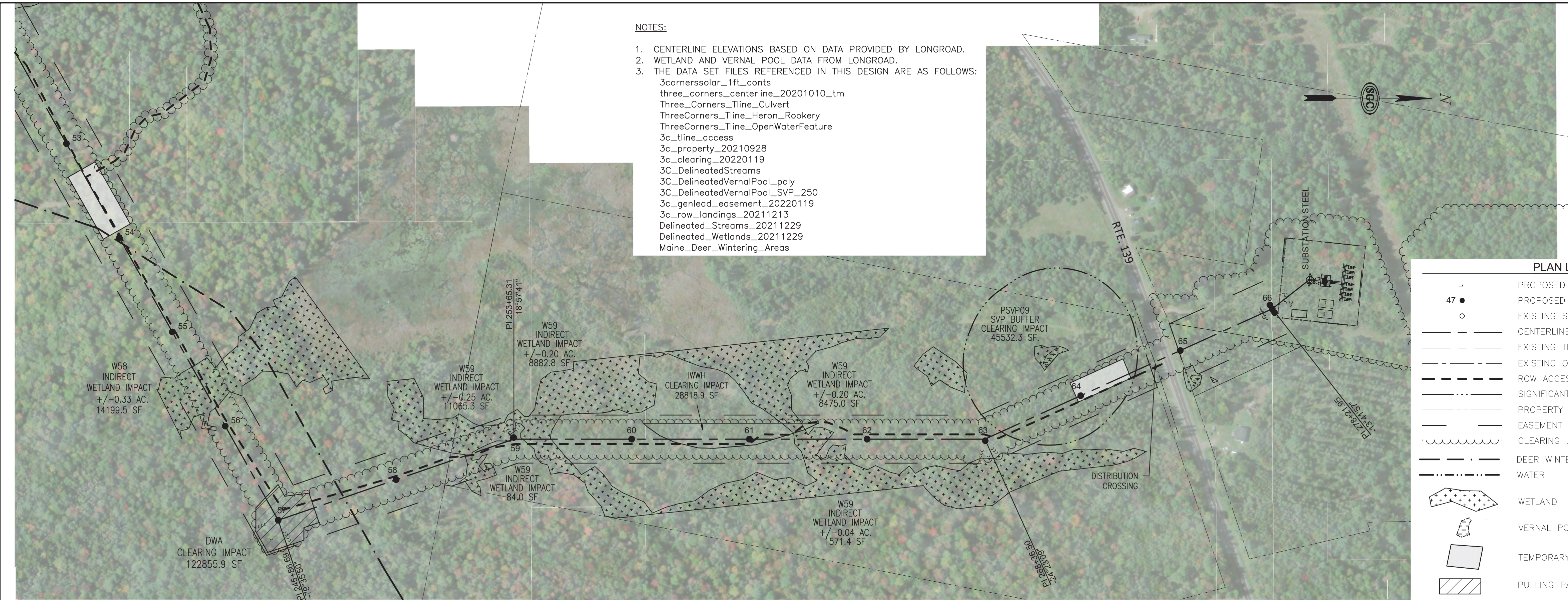
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**PLAN LEGEND**

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	EXISTING STRUCTURE
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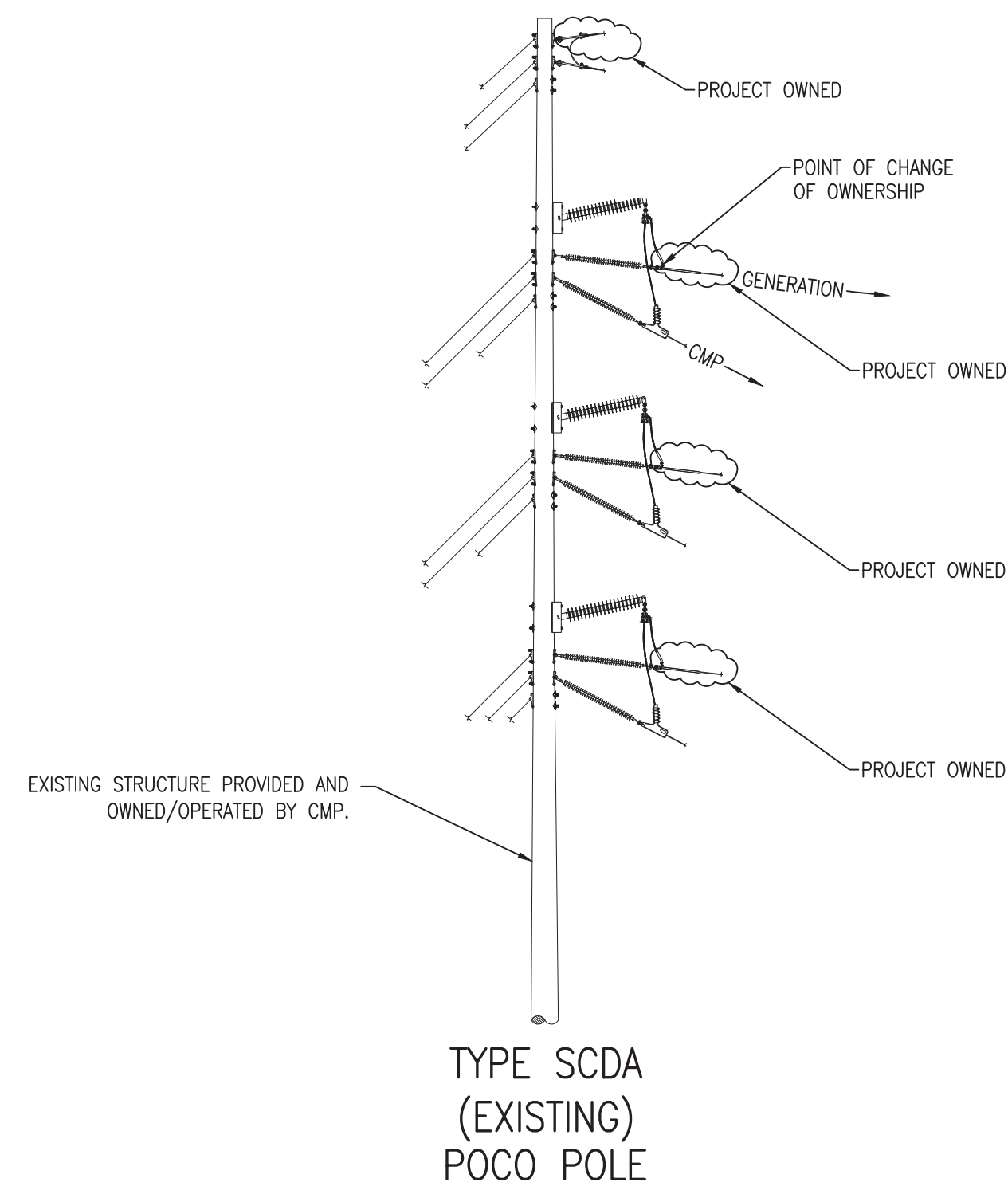
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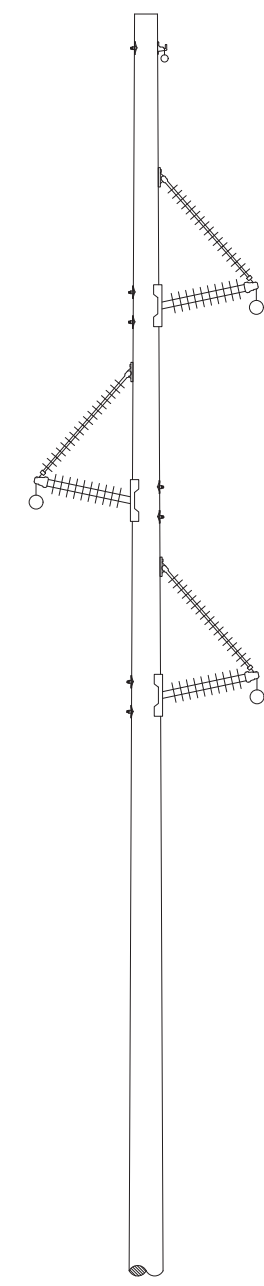
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PROJECT:	THREE CORNERS SOLAR KENNEBEC COUNTY, MAINE	DRAWING NUMBER	11660-12-1200
CLIENT:	LONGROAD ENERGY MANAGEMENT, LLC 330 CONGRESS ST., BOSTON, MA 02210	REVISION	
		SHEET NUMBER	5 OF 5

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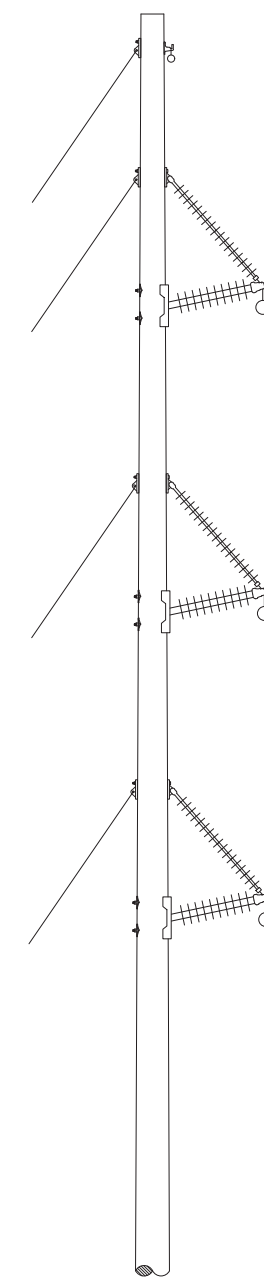




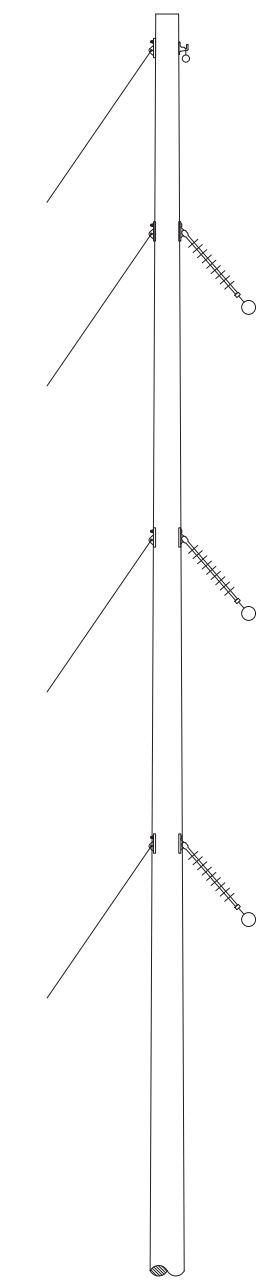
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(EXISTING)  
POCO POLE



TYPE SCPB



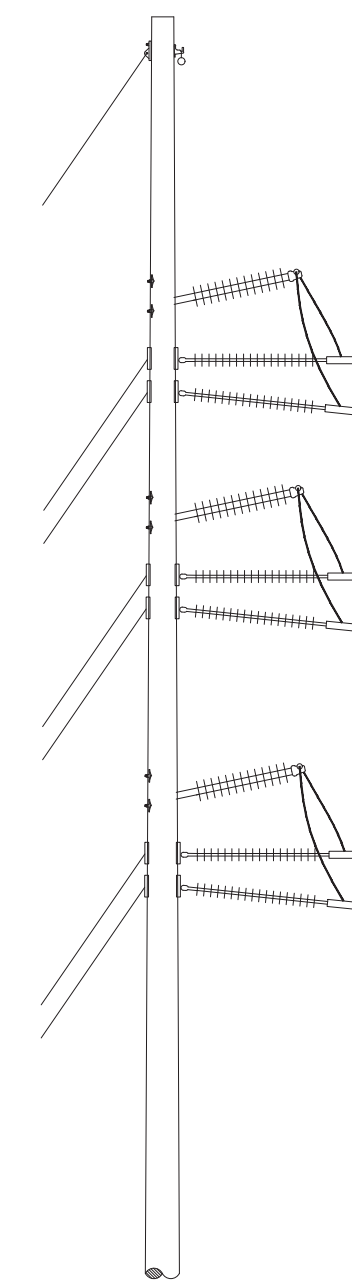
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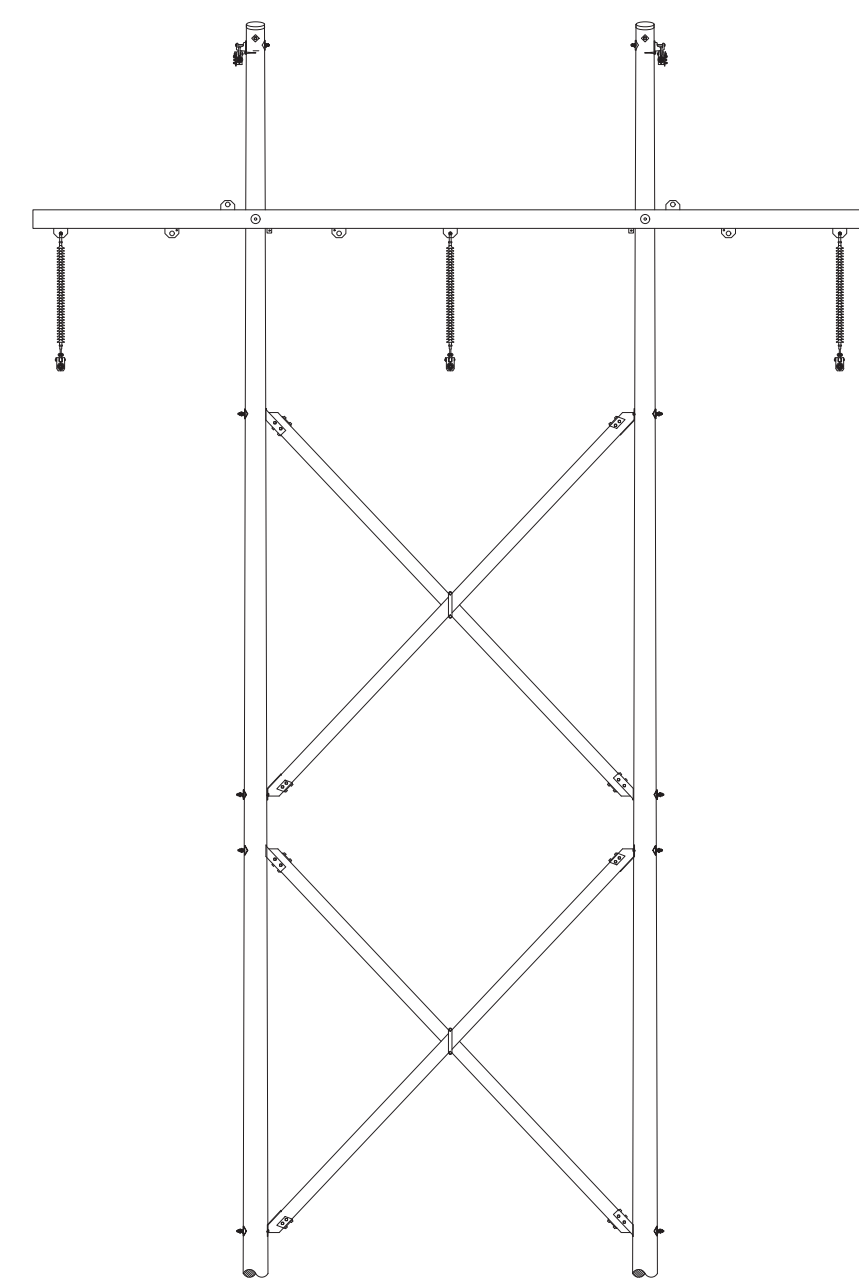
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**STRUCTURE AND LAYOUT NOTES:**

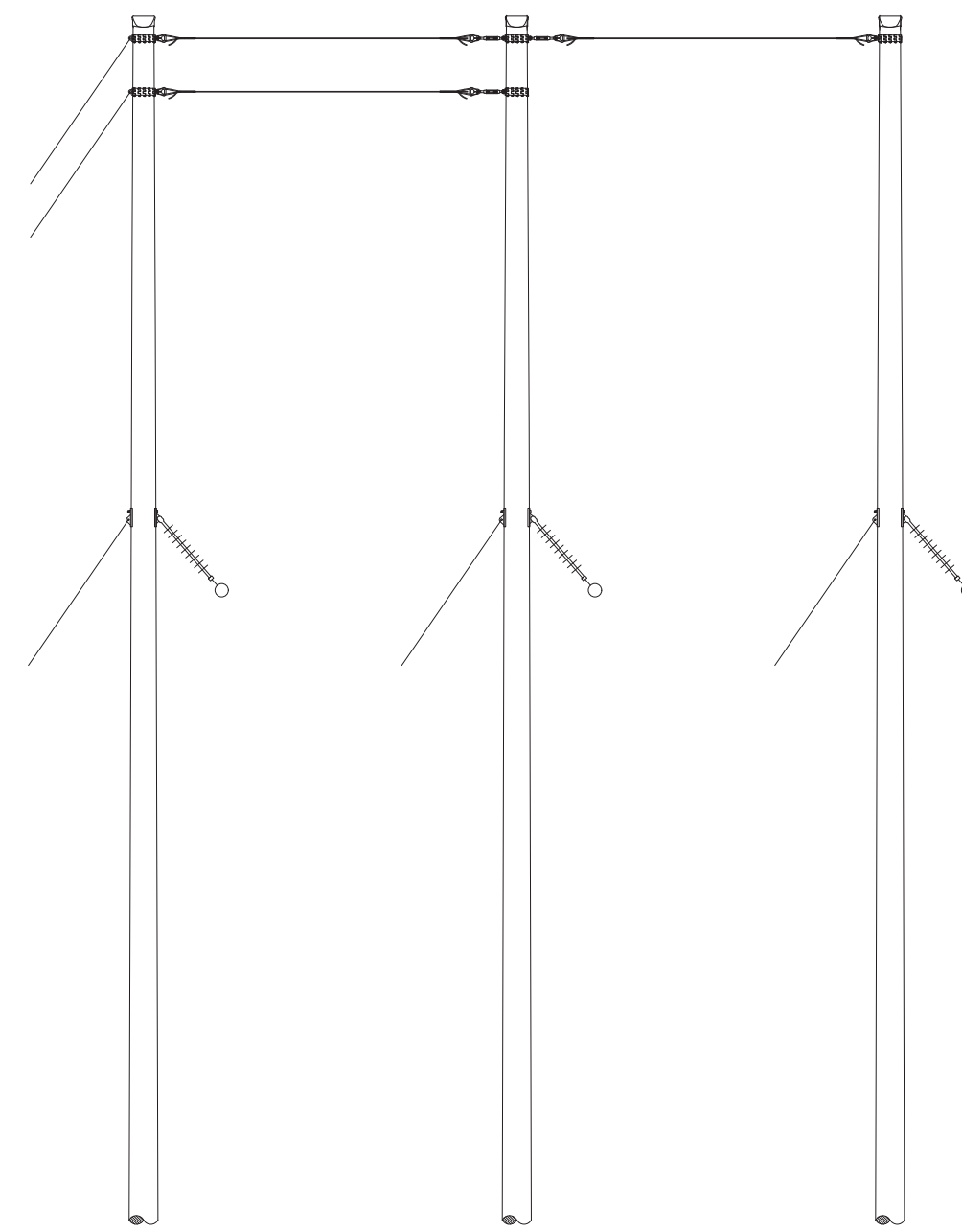
1. TYPICAL STRUCTURE HEIGHTS ON THE GENERATOR LEAD WILL RANGE FROM 70 TO 110 FEET AND WILL VARY BASED ON SITE CONDITIONS AT THE TIME OF INSTALLATION.
2. STRUCTURE CONFIGURATIONS VARY (E.G. SINGLE-POLE, H-FRAME, HORIZONTAL, VERTICAL) BASED ON SITE CONDITIONS AT THE TIME OF INSTALLATION. SEE TYPICAL STRUCTURE DETAILS (THIS SHEET) FOR STANDARD CONFIGURATIONS.
3. TYPICAL OVERHEAD SPANS (DISTANCE BETWEEN STRUCTURES) MAY VARY BETWEEN 300 AND 800 FEET. STRUCTURE LOCATIONS WILL BE GENERALLY AS REPRESENTED ON THE PERMIT PLANS. FINAL SPAN LENGTHS MAY BE ADJUSTED BASED ON SITE CONDITIONS AT THE TIME OF INSTALLATION.
4. STRUCTURES REQUIRING GUYS ARE SHOWN ON THE TYPICAL STRUCTURE DETAILS. FINAL ANCHOR LOCATIONS WILL VARY BASED ON STRUCTURE HEIGHT, TERRAIN AND SITE CONDITIONS.
5. ANCHORS WILL PREDOMINATELY BE SCREW TYPE, BUT ROCK OR SLUG ANCHORS MAY BE USED DEPENDENT ON SITE CONDITIONS.
6. FINAL POLE OR ANCHOR LOCATIONS MAY BE ADJUSTED BASED ON SITE CONDITIONS AT THE TIME OF INSTALLATION. NO ADJUSTMENTS TO POLE OR ANCHOR LOCATIONS WILL BE MADE THAT WOULD RESULT IN STRUCTURES OR ANCHORS BEING RELOCATED CLOSER THAN 25' TO A STREAM OR WITHIN WETLANDS.
7. REMOVAL OF INDIVIDUAL "DANGER TREES" BEYOND THE PROPOSED CLEARING LIMITS SHOWN ON THE DRAWINGS MAY BE REQUIRED WHERE OWNER HAS LAND CONTROL.
8. TO THE EXTENT PRACTICABLE, STRUCTURES WILL BE DESIGNED WITH REFERENCE TO THE GUIDELINES SET FORTH IN THE AVIAN POWER LINE INTERACTION COMMITTEE DOCUMENT, "SUGGESTED PRACTICES FOR AVIAN PROTECTION ON POWER LINES: THE STATE OF THE ART IN 2006". COMPLIANCE WILL BE MET PRIMARILY BY PROVIDING ADEQUATE SPACING BETWEEN CONDUCTORS WITH ADDITIONAL INSULATION OR COVERING OF ENERGIZED ELEMENTS AS SUGGESTED.
9. STRUCTURES ARE DESIGNED TO CARRY 795 ACSR, 26/7 "DRAKE" CONDUCTOR WITH OPGW FOR COMMUNICATIONS AND LIGHTNING PROTECTION.



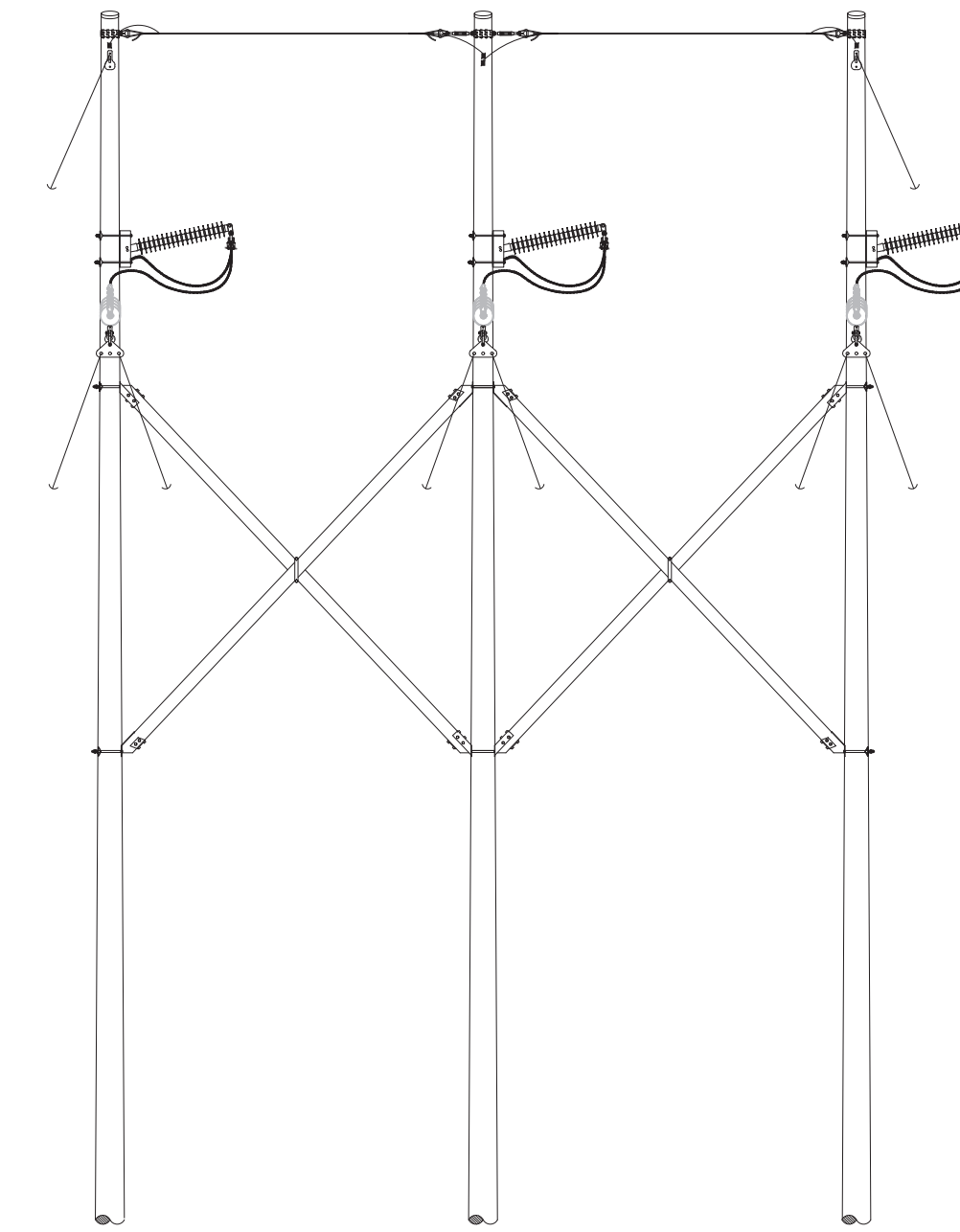
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TYPE TAN-AR-DX

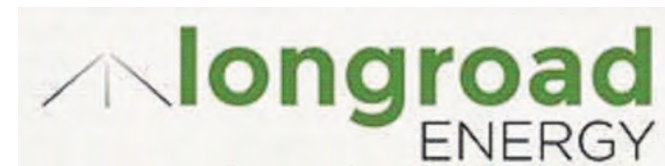


TYPE CR



TYPE LDR

**115 kV GENERATOR LEAD STRUCTURES**



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TITLE:	115 kV GENERATOR LEAD LINE TYPICAL STRUCTURE TYPES	SGC PROJECT NUMBER	1166004
PROJECT:	THREE CORNERS SOLAR KENNEBEC COUNTY, MAINE	DRAWING NUMBER	11660-13-1250
CLIENT:	LONGROAD ENERGY MANAGEMENT, LLC 330 CONGRESS ST., BOSTON, MA 02210	REVISION	△
		SHEET NUMBER	1 OF 1

**GENERAL EROSION CONTROL NOTES:**

- ALL EROSION & SEDIMENT CONTROL MEASURES SHALL BE INSTALLED & MAINTAINED IN ACCORDANCE WITH THE MAINE EROSION AND SEDIMENT BEST MANAGEMENT PRACTICES BY THE CUMBERLAND COUNTY SOIL AND WATER CONSERVATION DISTRICT AND THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION DATED MARCH, 2014 (AS REVISED).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING STORM WATER MANAGEMENT PRACTICES IN ACCORDANCE WITH LOCAL REGULATIONS AND GOVERNING AUTHORITIES AND SHALL BE RESPONSIBLE FOR ANY FINES RESULTING FROM EROSION CONTROL VIOLATIONS.
- EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND SHALL BE MAINTAINED UNTIL FINAL STABILIZATION IS ACHIEVED.
- THE CONTRACTOR SHALL PROVIDE PROPER EROSION CONTROL AND DRAINAGE MEASURES IN ALL AREAS OF WORK. PRIOR TO BEGINNING EXCAVATION WORK, SILT FENCE SHALL BE INSTALLED. EROSION CONTROL MEASURES SHOWN ON THE DRAWINGS ARE A MINIMUM; CONTRACTOR SHALL TAKE ALL OTHER NECESSARY MEASURES TO CONTROL EROSION. EROSION CONTROL MEASURES SHALL ALSO BE INSTALLED AT THE DOWNGRADIENT PERIMETER OF THE TOPSOIL STOCKPILES. ALL DISTURBED EARTH SURFACES SHALL BE STABILIZED IN THE SHORTEST PRACTICAL TIME AND TEMPORARY EROSION CONTROL DEVICES SHALL BE EMPLOYED UNTIL SUCH TIME AS ADEQUATE SOIL STABILIZATION HAS BEEN ACHIEVED. TEMPORARY STORAGE OF EXCAVATED MATERIAL SHALL BE STABILIZED IN A MANNER THAT WILL MINIMIZE EROSION.
- THE ON-SITE PLAN COORDINATOR SHALL INSPECT EPSC MEASURES ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS OF SIGNIFICANT RUNOFF EVENTS, INCLUDING THOSE THAT RESULT IN DISCHARGE OF STORMWATER FROM THE SITE. DAILY INSPECTIONS OF EPSC MEASURES SHALL BE CONDUCTED DURING THE WINTER CONSTRUCTION PERIOD (OCTOBER 15 -MAY 1). REPAIRS SHALL BE MADE AS NECESSARY. ACCUMULATED SEDIMENT TRAPPED BY EPSC DEVICES SHALL BE REMOVED AS NECESSARY.
- TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL DEVICES SHALL BE REMOVED AND THOSE ADJACENT AREAS RESTORED UPON COMPLETION OF THE WORK OR WHEN SO ORDERED BY THE ON-SITE PLAN COORDINATOR. EXPOSED SOIL RESULTING FROM REMOVAL OF TEMPORARY EPSC MEASURES SHALL BE RAKED, SEEDED, AND MULCHED OR MATTED AS NEEDED.
- PERMANENT SEED MIX SHALL BE USED AS EARLY AS PRACTICABLE BETWEEN 05/15 AND 9/15. USE TEMPORARY SEED MIX SHALL BE USED BETWEEN 9/16 AND 5/14.
- TEMPORARY SEED MIX SHALL BE USED BETWEEN 9/16 AND 5/14 AND SHALL MEET THE FOLLOWING CRITERIA:
 

SEED	% WEIGHT	% GERMINATION
WINTER RYE	80 MINIMUM	85 MIN
RED FESCUE (CREEPING)	4 MIN	80 MIN
PERENNIAL RYE GRASS	3 MIN	90 MIN
RED CLOVER	3 MIN	90 MIN
OTHER CROP GRASS	0.5 MAX	
NOXIOUS WEED SEED	0.5 MAX	
INERT MATTER	1.0 MAX	
- TEMPORARY MULCHING IS TO BE APPLIED TO ALL DISTURBED AREAS WITHIN 21 DAYS OF INITIAL DISTURBANCE AND TO AREAS LEFT INACTIVE AND UNSTABILIZED FOR A PERIOD GREATER THAN 7 DAYS AT A RATE OF 2 TONS/ACRE UNLESS:
  - STABILIZATION IS NOT REQUIRED IF WORK IS TO CONTINUE IN THE AREA WITHIN THE NEXT 24 HOURS AND THERE IS NO PRECIPITATION FORECAST FOR THE NEXT 24 HOURS.
  - STABILIZATION IS NOT REQUIRED IF THE WORK IS OCCURRING IN A SELF-CONTAINED EXCAVATION (I.E. NO OUTLET) WITH A DEPTH OF 2 FEET OR GREATER (E.G. UTILITY TRENCHES)
- PERMANENT SEED MIX SHALL BE USED AS EARLY AS PRACTICABLE BETWEEN 05/15 AND 9/15 AND MEET THE FOLLOWING CRITERIA:
 

SEED	% WEIGHT	% GERMINATION
RED FESCUE	50%	
SHEEP FESCUE	25%	
RED TOP	5%	
WHITE CLOVER	10%	
ANNUAL RYE	10%	

 OR AS OTHERWISE SPECIFIED OR APPROVED BY REGIONAL AUTHORITY
- WETLAND SEED MIX SHALL MEET THE FOLLOWING CRITERIA:
 

SEED	% WEIGHT	% GERMINATION
NODDING BUR MARIGOLD	3%	
FOX SEDGE	13%	
CREEPING BENTGRASS	14%	
RIVERBANK WILD RYE	8%	
VIRGINIA WILD RYE	14%	
SOFT RUSH	2%	
SENSITIVE FEM	1.5%	
BLUE VERVAIN	1%	
BLACKWELL SWITCH GRASS	25%	
GREY DOGWOOD	0.5%	
CREEPING RED FESCUE	18%	

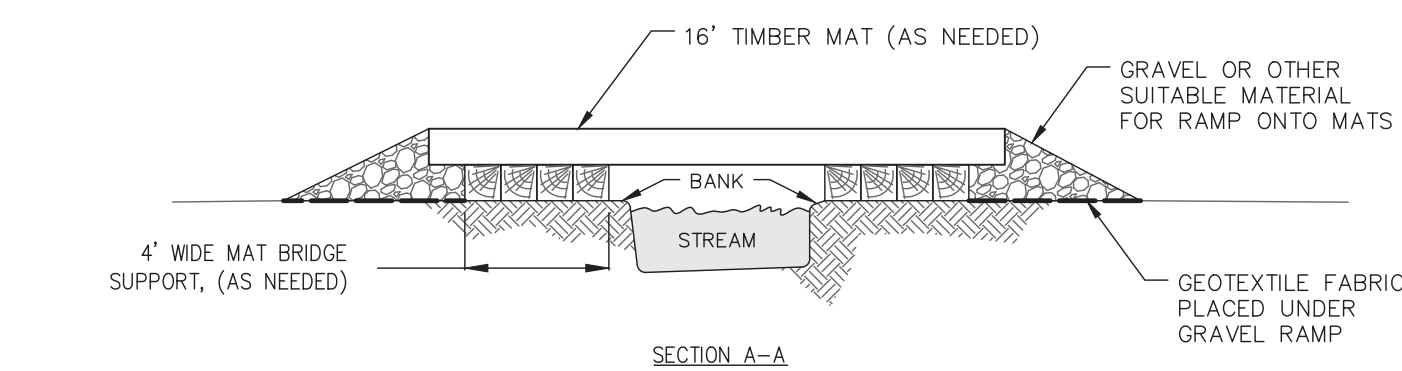
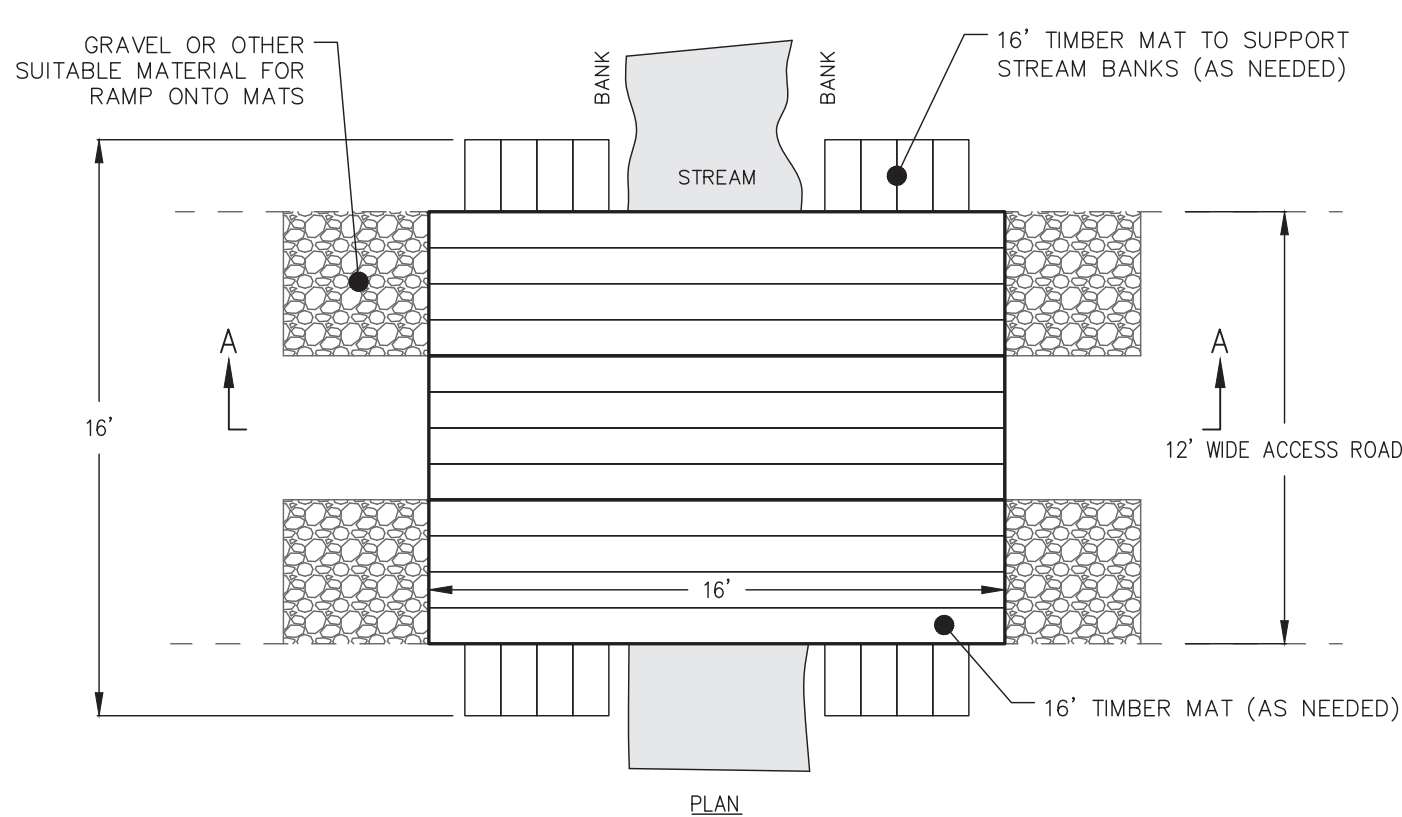
 OR AS OTHERWISE SPECIFIED OR APPROVED BY REGIONAL AUTHORITY
- THE METHOD OF STRIPPING VEGETATION SHALL BE SUCH AS TO MINIMIZE EROSION. FILLS SHALL BE PLACED AND COMPACTED IN SUCH A MANNER THAT SOIL SLIDING AND EROSION IS MINIMIZED. GRADING SHALL BE DONE IN SUCH A MANNER AS NOT TO DIVERT WATER ON TO ADJOINING PROPERTY.
- EROSION CONTROL BLANKET OR EQUIVALENT SHALL BE USED TO STABILIZE ALL DITCHES AND SIDESLOPES STEEPER THAN 3H:1V.
- SEDIMENT LOGS MAY BE SUBSTITUTED FOR SILT FENCE BY THE ON-SITE PLAN COORDINATOR AS CONDITIONS DICTATE.
- PLACE EXCAVATED MATERIAL ON THE UP GRADIENT SIDE OF THE EXCAVATION TO THE EXTENT POSSIBLE. EXCESS SOILS ARE TO BE TRANSPORTED TO AN OFF-SITE LOCATION FOR STOCKPILING. WETLAND SOILS SHALL BE STOCKPILED SEPARATELY FROM UPLAND SOILS.

**WINTER CONSTRUCTION NOTES:**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING ALL WINTER EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH SECTION A-3 OF "MAINE EROSION AND SEDIMENTATION CONTROL BMP'S".
- WINTER EXCAVATION AND EARTHWORK SHALL BE COMPLETED SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ONE TIME.
- DISTURBED AREAS ARE TO BE LIMITED TO AREAS WHERE WORK IS TO BE COMPLETED WITHIN 15 DAYS AND CAN BE MULCHED IN ONE DAY PRIOR TO A SNOW EVENT.
- AREAS OF DISTURBED SOIL SHALL BE STABILIZED AT THE END OF EACH WORK DAY, WITH THE FOLLOWING EXCEPTIONS: (1) IF NO RUNOFF EVENT IS FORECAST FOR WITHIN 24 HOURS AND WORK WILL RESUME IN THE SAME DISTURBED AREA WITHIN 24 HOURS AND/OR (2) DISTURBED AREAS THAT COLLECT AND RETAIN RUNOFF, SUCH AS OPEN UTILITY TRENCHES OR FOUNDATIONS, WHICH REQUIRE STABILIZATION AT THE END OF EACH WORK WEEK.
- SNOW PILING SHALL OCCUR WITHIN THE DESIGNATED LIMITS OF DISTURBANCE.
- DRAINAGE STRUCTURES SHALL BE KEPT OPEN AND FREE OF SNOW AND ICE DAMS.
- SILT FENCE AND OTHER PRACTICES REQUIRING EARTH DISTURBANCE SHALL BE INSTALLED PRIOR TO FROZEN GROUND CONDITIONS. SILT FENCE MAY BE INSTALLED WITH STONE BACKING DURING FROZEN GROUND CONDITIONS, SEE DETAIL.
- MULCH USED FOR TEMPORARY STABILIZATION SHALL BE APPLIED AT 4 TONS/ACRE WITH AN 80 TO 90 PERCENT UNIFORM COVER AND TRACKED IN TO PREVENT REMOVAL BY WIND.
- PRIOR TO STABILIZATION, SNOW AND/OR ICE SHALL BE REMOVED TO LESS THAN 1 INCH THICKNESS.
- STONE SHALL BE USED TO STABILIZE AREAS WHERE CONSTRUCTION VEHICLE TRAFFIC IS ANTICIPATED. STONE PATHS SHALL BE AT LEAST 14 FEET WIDE TO ACCOMMODATE VEHICULAR TRAFFIC.
- ALL SLOPES LESS THAN 3H:1V SHALL BE MULCHED AND SEEDED AT 4 TONS/ACRE AND TRACKED IN.
- THE SITE STABILIZATION SCHEDULE BEFORE WINTER SHALL BE AS FOLLOWS:

**CONSTRUCTION DEWATERING NOTES:**

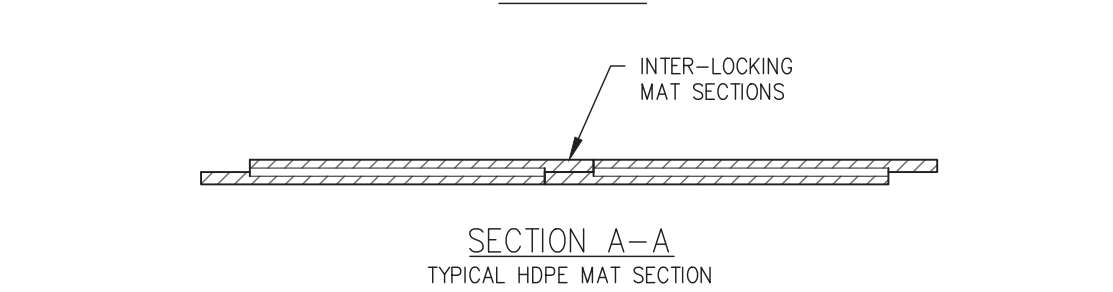
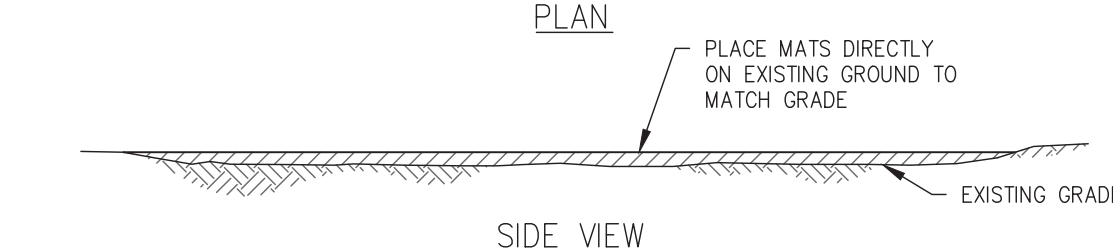
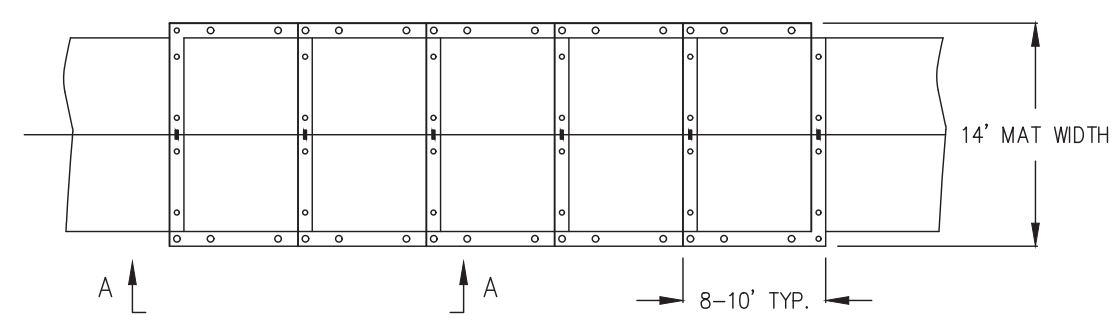
- INSTALL DIVERSION DITCHES OR BERMS TO MINIMIZE THE AMOUNT OF CLEAN STORMWATER RUNOFF ALLOWED TO DISCHARGE INTO THE EXCAVATED AREA.
- TREATMENT OF SEDIMENT BEARING WATER SHALL BE ACCOMPLISHED UTILIZING TEMPORARY SEDIMENT BASINS, MANUFACTURED FILTER 'SOCKS', CONCRETE OR STEEL SETTLING CHAMBERS OR OTHER APPROVED TECHNIQUES.
- TREATED OR CLEAN RUNOFF WITH MINIMAL TO NO DISCOLORATION FROM SEDIMENT SHALL BE DISCHARGED TO ADJACENT GRASSED AREAS THAT CONTAIN A MAXIMUM OF 0-2% SLOPES. STABILIZATION WITH CRUSHED STONE SHALL BE APPLIED TO VEGETATED AREA, AS NEEDED, TO PREVENT EROSION FROM OUTFLOW OF WATER.
- INSPECTION OF DEWATERING FACILITIES IS TO BE PERFORMED FREQUENTLY EACH DAY FOR SIGNS OF EROSION AND CONCENTRATED FLOW.
- IF COLLECTED DEWATERING DISCHARGE IS CONTAMINATED WITH OIL, GREASE, OR OTHER TOXIC/HAZARDOUS MATERIALS, THE ON-SITE PLAN COORDINATOR SHALL CONTACT THE APPROPRIATE AUTHORITY AND CEASE WORK IMMEDIATELY.
- TREATED COLLECTED DEWATERING DISCHARGE MAY BE DISCHARGED INTO EXISTING MAN-MADE STORMWATER CONVEYANCES INCLUDING STORM DRAINS, ROADSIDE DITCHES PROVIDED THAT REQUIRED PERMISSIONS FROM THE APPROPRIATE LANDOWNER, MUNICIPALITY, OR UTILITY, ETC. HAVE BEEN OBTAINED PRIOR TO DISCHARGE.
- PROLONGED DEWATERING DURING PERIODS OF HEAVY RAIN SHALL BE AT THE DISCRETION OF THE ON-SITE PLAN COORDINATOR.
- THE OSPC SHALL HAVE THE AUTHORITY TO STOP DEWATERING OPERATIONS AS CONDITIONS DICTATE.



TYPICAL "SWAMP MAT" BRIDGE  
NOT TO SCALE

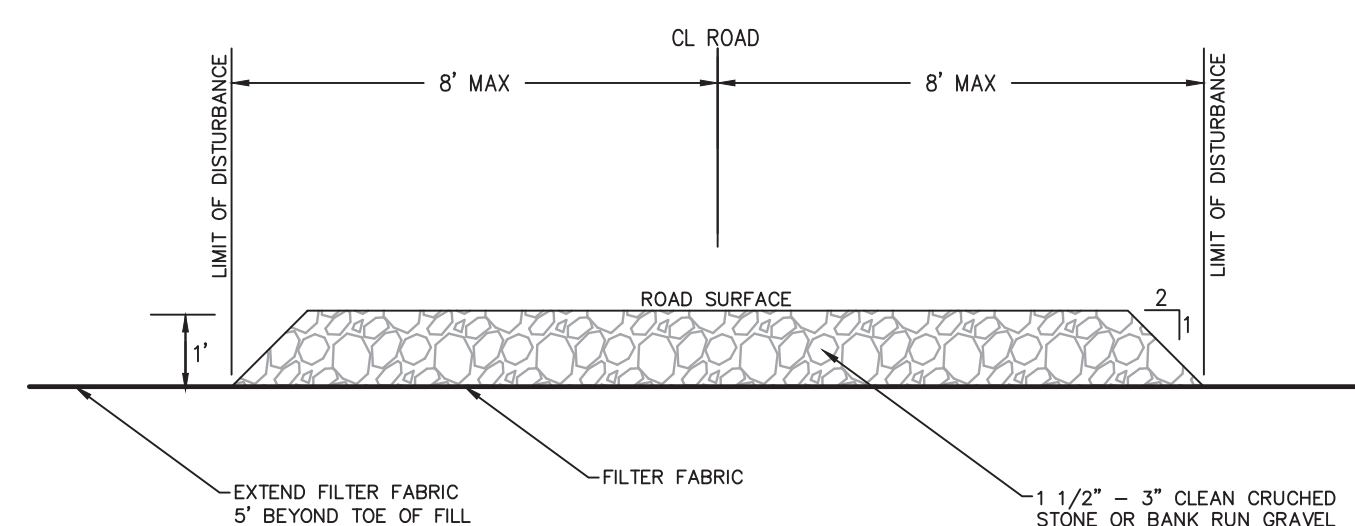
- NOTES:**
- DEPLOY EROSION CONTROLS AS NEEDED TO MINIMIZE EROSION.
  - PERFORM ROUTINE INSPECTION TO INCLUDE REMOVAL OF LOOSE SOIL TRACKED ONTO BRIDGE BY EQUIPMENT AND INSPECTION OF STREAM BANKS FOR STABILITY.
  - MATS SHALL BE POSITIONED TO MAINTAIN THE NATURAL STREAM CHARACTERISTICS.
  - MATS LAID PERPENDICULAR TO THE STREAM CAN BE SUBSTITUTED WITH PRE-FABRICATED BRIDGE STRUCTURES AS SPAN LENGTHS DICTATE OR AT THE PREFERENCE OF THE CONTRACTOR.

TYPICAL "SWAMP MAT" BRIDGE  
NOT TO SCALE

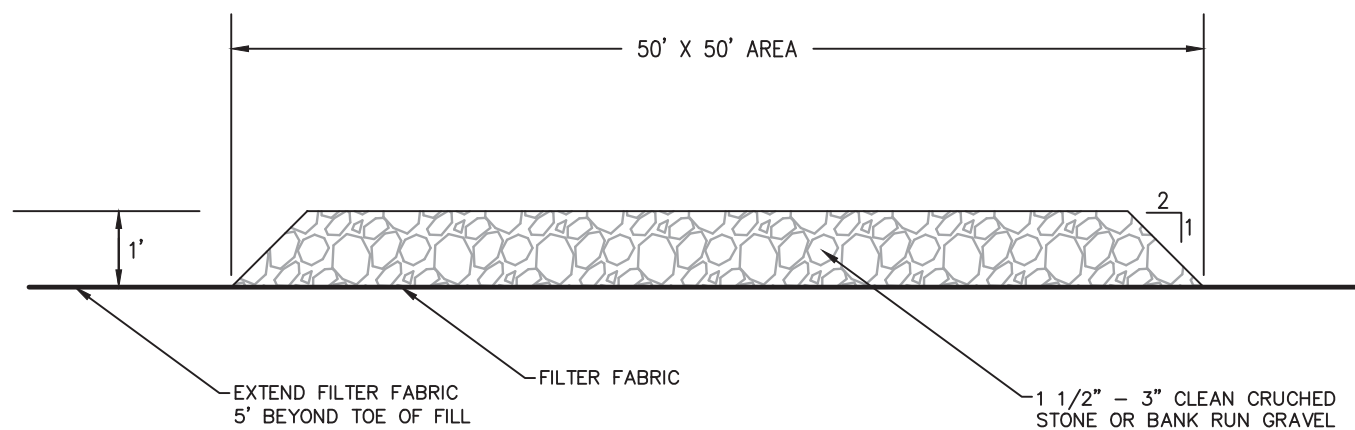


- NOTES:**
- TO BE INSTALLED AS NECESSARY TO PREVENT RUTTING DURING CONSTRUCTION ACCESS.
  - THIS DETAIL SHOWS TYPICAL MAT DIMENSIONS. MAT MATERIAL TYPICALLY INCLUDES HDPE, TIMBER, OR LAMINATED WOOD. MAT DIMENSIONS MAY BE SLIGHTLY DIFFERENT FROM WHAT IS SHOWN.
  - MATS WILL BE USED AS TEMPORARY FILL WHERE NEEDED FOR ACCESS AND WORK SPACE AND LABELED AS "TEMPORARY WETLAND IMPACTS" ON WETLAND IMPACT EXHIBIT DRAWINGS; EXCEPT WHERE IN AREAS ACCESS IS SPECIALLY SHOWN AS TEMPORARY GRAVEL AND FILTER FABRIC. MATS MAY BE SUBSTITUTED FOR GRAVEL AND FABRIC BUT GRAVEL AND FABRIC SHALL NOT BE SUBSTITUTED FOR MATS.

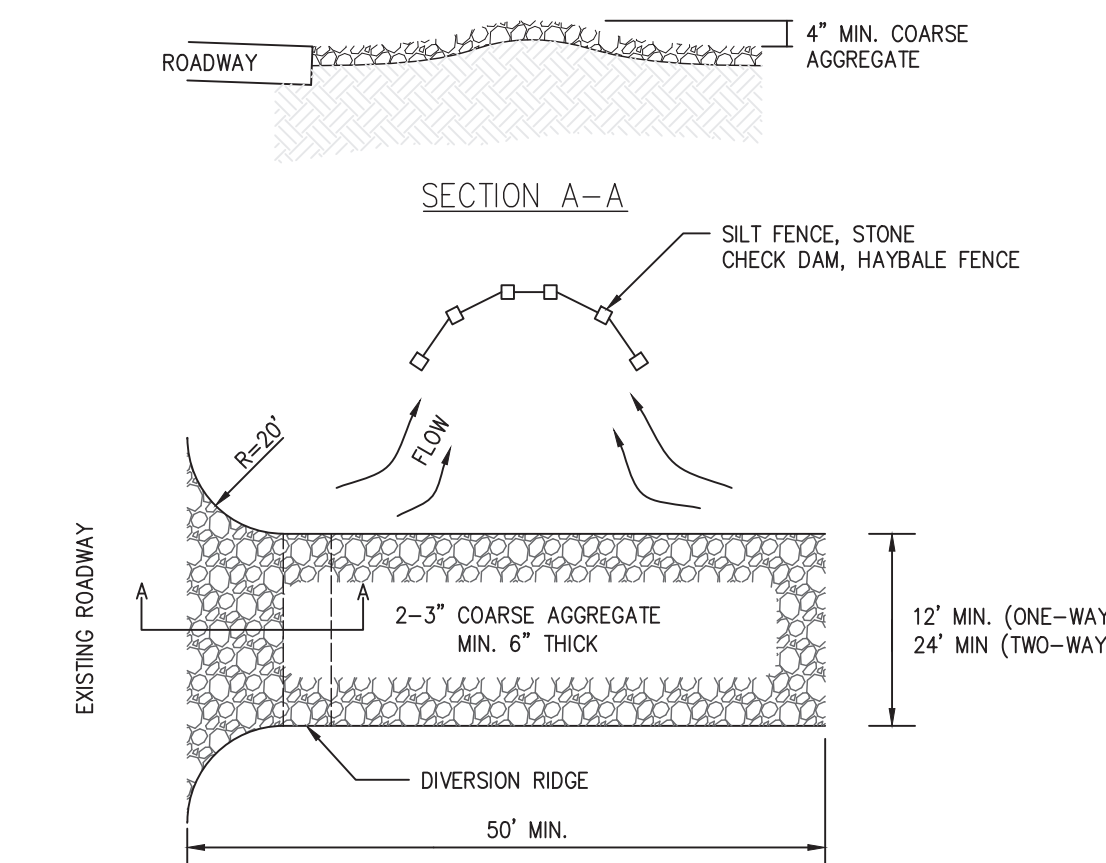
SWAMP MAT DETAIL  
NOT TO SCALE



TEMPORARY ACCESS ROAD  
NOT TO SCALE

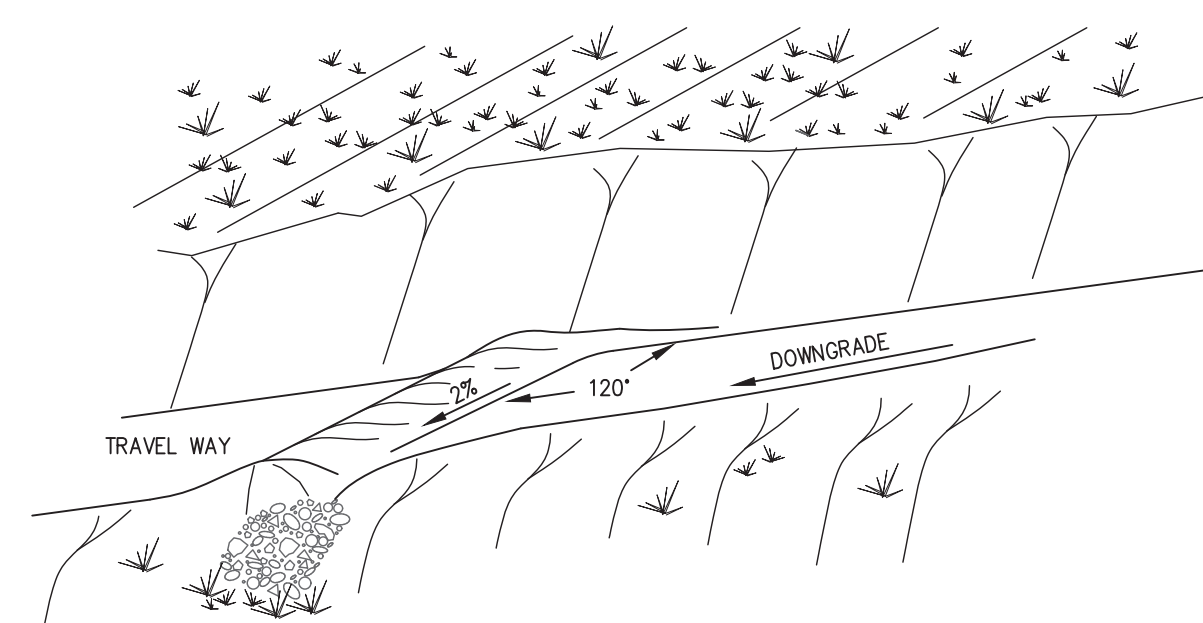


TEMPORARY CONSTRUCTION PAD  
NOT TO SCALE



- NOTES:**
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
  - WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
  - WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
  - ALL SEDIMENT SPILLED, DROPPED, OR WASHED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
  - PLACE STONE ON GEOTEXTILE FABRIC.

TEMPORARY CONSTRUCTION ENTRANCE DETAIL  
NOT TO SCALE



SLOPE (%)	SPACING (FT.)
< 5	125
5 - 10	100
10 - 20	75
20 - 35	50
> 35	25

- CONSTRUCTION NOTES:**
- INSTALL THE WATER BAR AS SOON AS THE RIGHT OF WAY IS CLEARED AND GRADED.
  - TRACK THE RIDGE TO COMPACT IT TO THE DESIGN CROSS SECTION.
  - THE OUTLET SHALL BE LOCATED ON AN UNDISTURBED AREA. FIELD SPACING WILL BE ADJUSTED TO USE THE MOST STABLE OUTLET AREAS. OUTLET PROTECTION WILL BE PROVIDED WHEN NATURAL CONDITIONS ARE NOT ADEQUATE.
  - INSPECT WATER BARS FOR EROSION DAMAGE AND SEDIMENT. CHECK OUTLET AREAS AND MAKE REPAIRS AS NEEDED TO RESTORE OPERATION.

WATERBAR DETAIL  
NOT TO SCALE



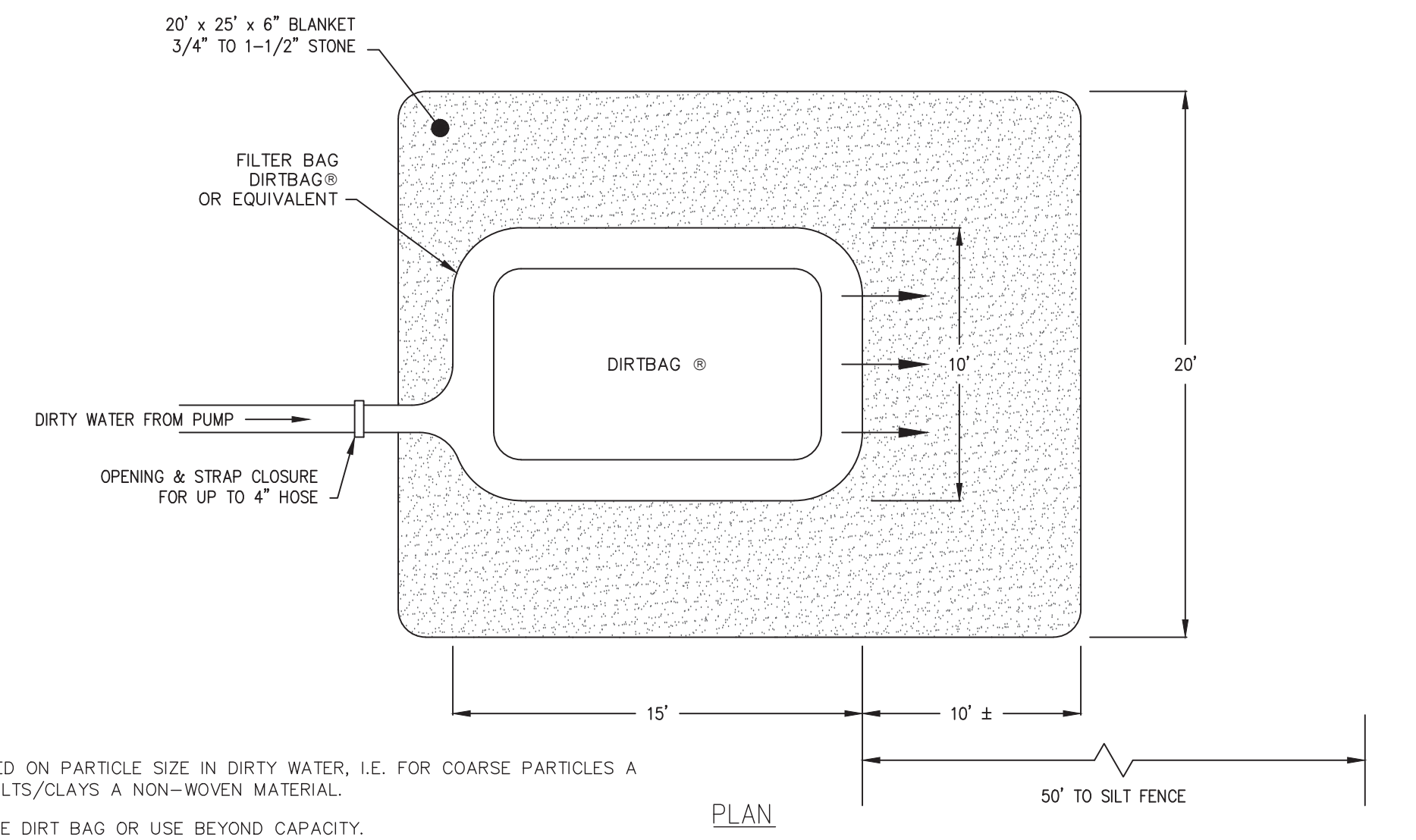
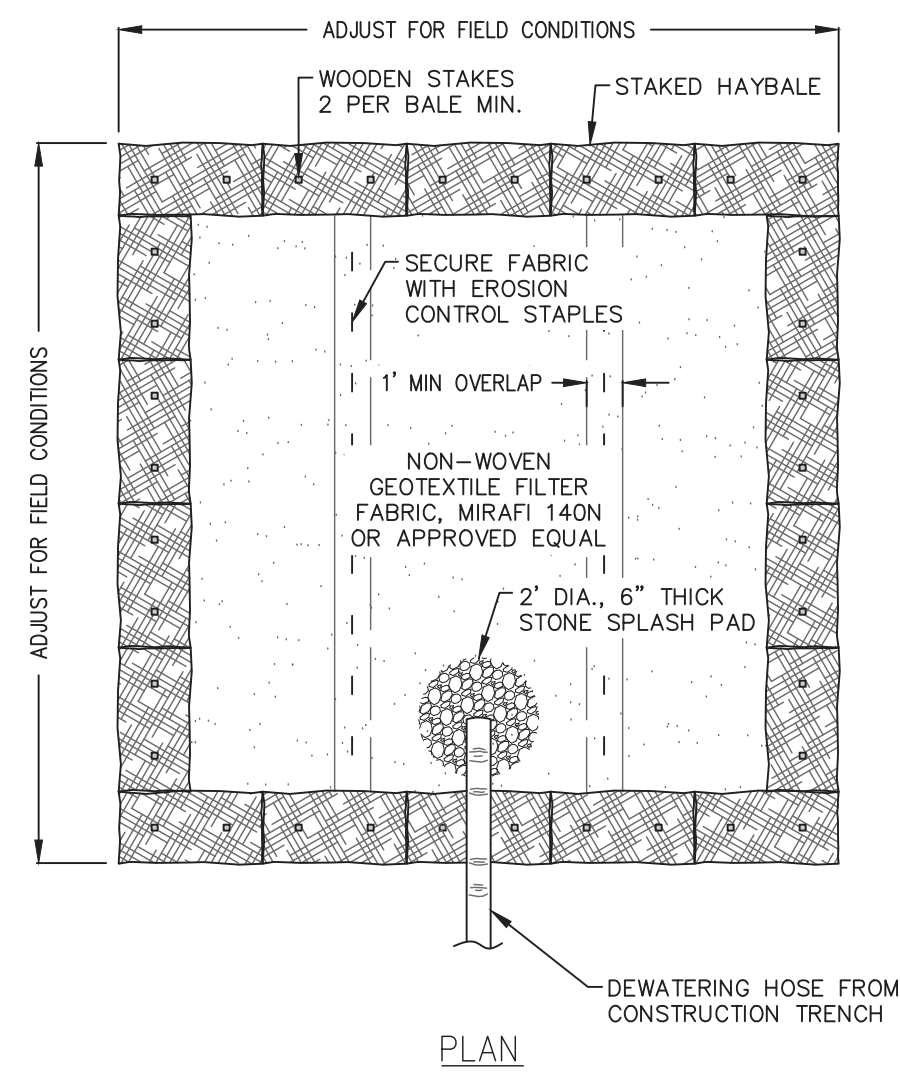
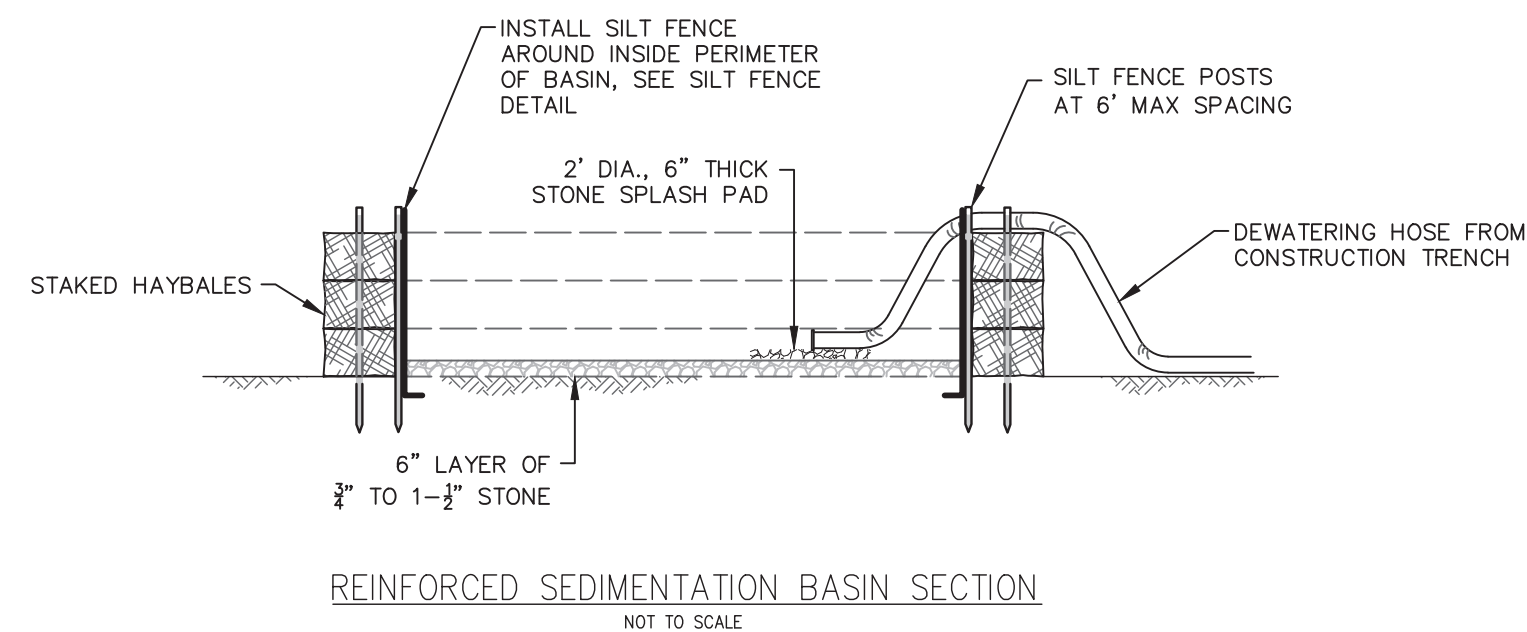
PRELIMINARY  
NOT FOR CONSTRUCTION

DATE: OCTOBER 29, 2021 SCALE: AS NOTED DRAWN: SJF DESIGN: DLH APPROVED: NRB

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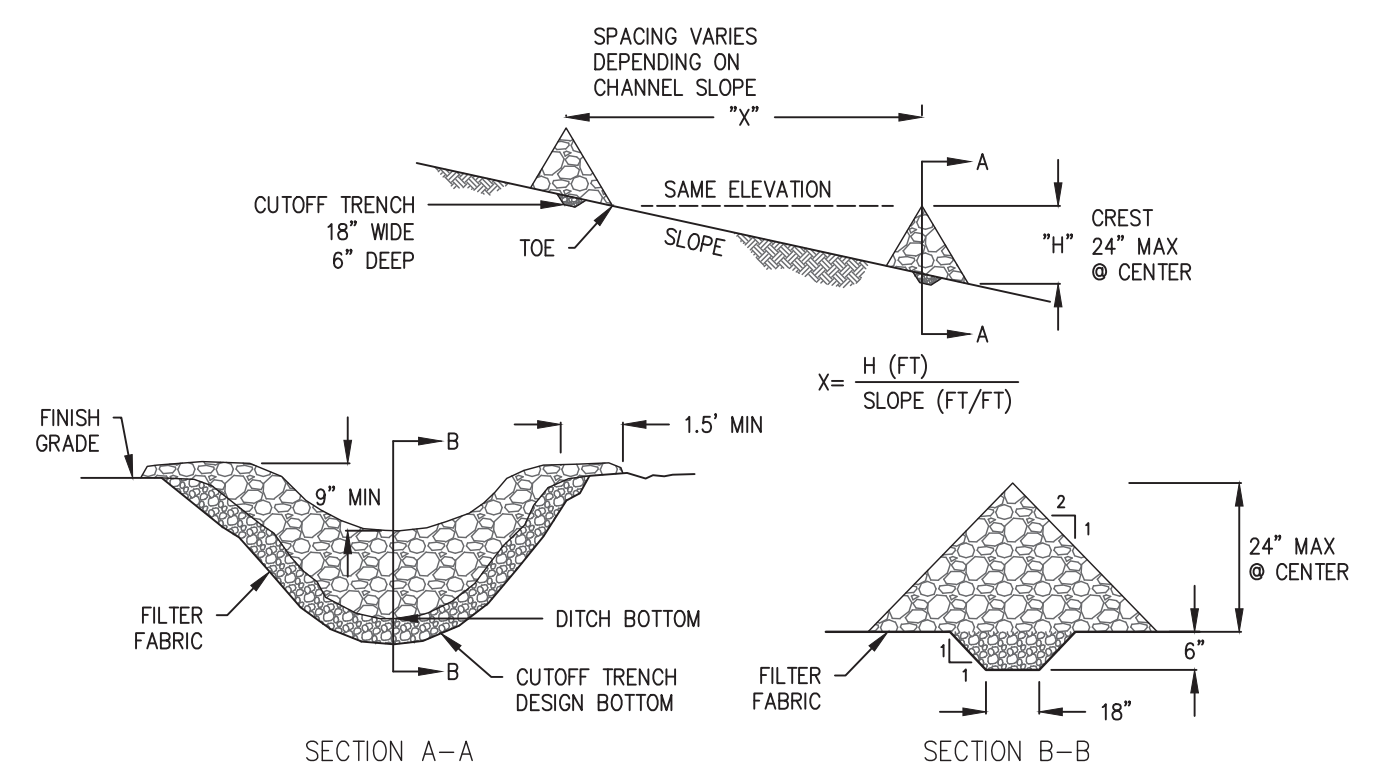
NO.	REVISIONS:	APPD:	DATE:
0	PRELIMINARY - NOT FOR CONSTRUCTION	DLH	01/26/2022

TITLE:	115 kV GENERATOR LEAD LINE EROSION & SEDIMENTATION CONTROLS	SGC PROJECT NUMBER:	1166004
PROJECT:	THREE CORNERS SOLAR KENNEBEC COUNTY, MAINE	DRAWING NUMBER:	116600-13-1300
CLIENT:	LONGROAD ENERGY MANAGEMENT, LLC 330 CONGRESS ST., BOSTON, MA 02210	REVISION:	1
		SHEET NUMBER:	1 OF 3



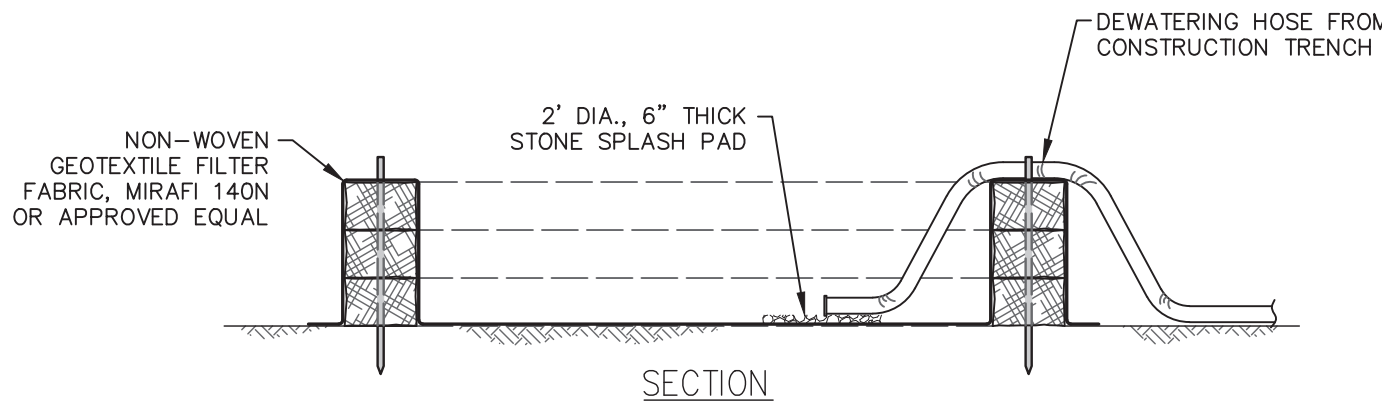
NOTES

- DIRT BAG MATERIAL BASED ON PARTICLE SIZE IN DIRTY WATER, I.E. FOR COARSE PARTICLES A WOVEN MATERIAL; FOR SILTS/CLAYS A NON-WOVEN MATERIAL.
- DO NOT OVER PRESSURIZE DIRT BAG OR USE BEYOND CAPACITY.
- LOCATE DISCHARGE SITE ON FLAT UPLAND AREAS AS FAR AWAY AS POSSIBLE FROM STREAMS, WETLANDS, AND OTHER RESOURCES AND POINTS OF CONCENTRATED FLOW.
- DOWNGRADIENT RECEIVING AREA MUST BE WELL VEGETATED OR OTHERWISE STABLE FROM EROSION, E.G. FOREST FLOOR OR COARSE GRAVEL/STONE.
- DISCHARGE NOT PERMITTED WITHIN 25' OF A STREAM OR WETLAND.



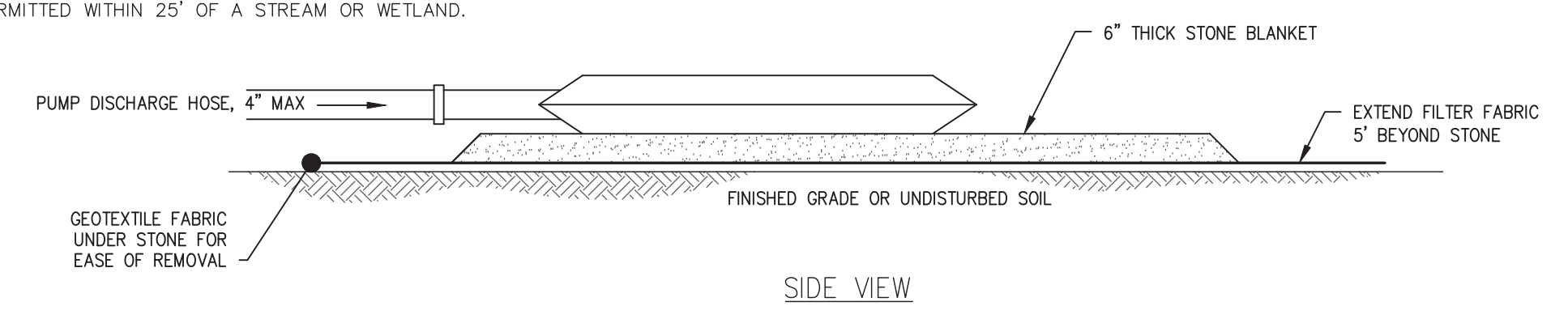
NOTES:

- STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
- SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
- EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
- PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
- ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.



NOTES

- SIZE OF BASIN AND ASSOCIATED NUMBER OF BALES MAY VARY BASED ON SITE CONDITIONS.
- THE BASIN SHALL BE SIZED TO PREVENT DISCHARGE WATER FROM OVERTOPPING BASIN. IF BASIN IS OVERTOPPED DISCONTINUE USE IMMEDIATELY AND RE-SIZE.
- KEEP BASIN AS FAR FROM WETLANDS AS PRACTICAL. DO NOT LOCATE BASIN WITHIN 25 FEET OF WETLANDS OR OTHER RESOURCES
- BASINS SHALL BE LOCATED IN AREAS THAT ARE GENERALLY FLAT WITH SLOPES FROM 0-2%.
- USE REINFORCED BASINS AS DETAILED WITH SILT FENCE AND STONE IN AREAS OF CONSIDERABLE FLOW AND FOR BASINS THAT ARE TO BE USED FOR PERIODS LONGER THAN 7 DAYS.
- CLEAN AND REMOVE BASIN AS SOON AS DEWATERING IS COMPLETE.
- CONCRETE JERSEY BARRIERS CAN BE SUBSTITUTED FOR HAYBALES AS DESIRED.

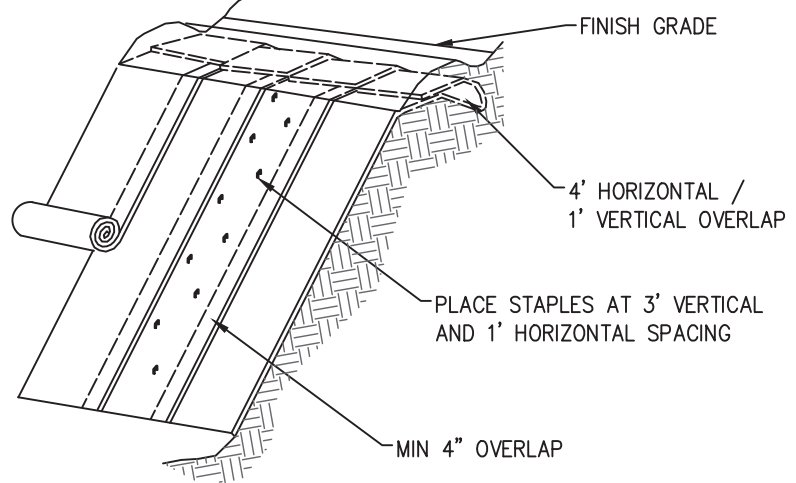


PUMPED DISCHARGE SEDIMENT CONTROL DEVICE (DIRTBAG)

NOT TO SCALE

STONE CHECK DAM DETAIL

NOT TO SCALE

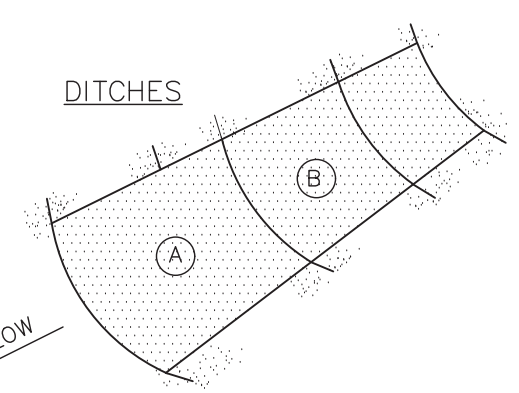


NOTES:

- SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS. BLANKETS SHALL HAVE GOOD SOIL CONTACT.
- APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
- LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
- INSTALL BLANKETS VERTICALLY DOWNSLOPE.

EROSION CONTROL BLANKET DETAIL (SLOPE)

NOT TO SCALE



NOTES:

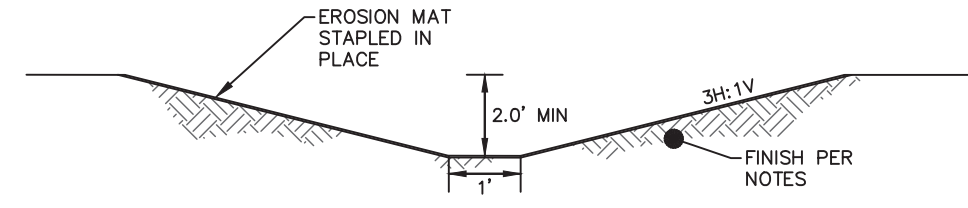
- BURY THE TOP END OF THE MESH MATERIAL IN A 12" TRENCH AND BACKFILL AND TAMP TRENCHING SECURE END WITH STAPLES AT 6" SPACING, 4" DOWN FROM EXPOSED END.
- FLOW DIRECTION JOINTS TO HAVE UPPER END OF LOWER STRIP BURIED WITH UPPER LAYERS OVERLAPPED 4" AND STAPLED, OVERLAP B OVER A.
- LATERAL JOINTS TO HAVE 4" OVERLAP OF STRIPS. STAPLE 18" ON CENTER.
- STAPLE OUTSIDE LATERAL EDGE 2" ON CENTER.
- WIRE STAPLES TO BE MIN. OF # 11 WIRE 6" LONG AND 1-1/2" WIDE.
- USE NORTH AMERICAN GREEN DS 150 OR APPROVED EQUAL.

EROSION CONTROL BLANKET DETAIL (DITCH)

NOT TO SCALE

TEMPORARY SEDIMENTATION BASIN DETAIL

NOT TO SCALE



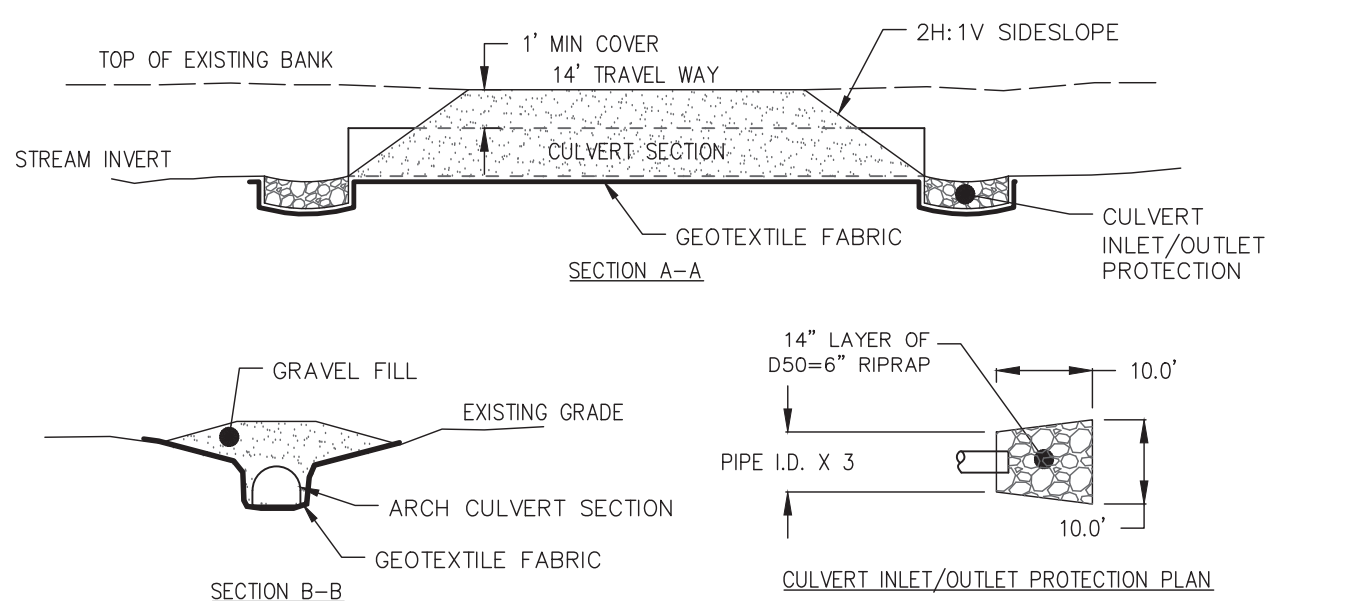
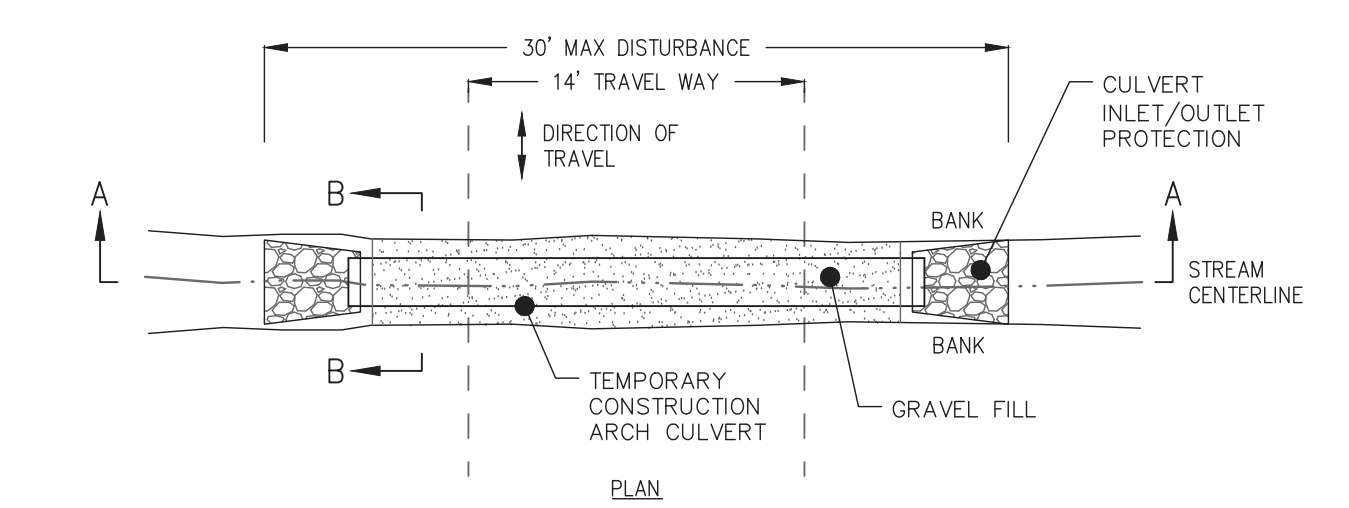
NOTES:

- 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 WATERWAY.
- THE WATERWAY 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 WATERWAY.
- 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 WATERWAY.
- GRASSED WATERWAY SHALL BE FINISHED AND STABILIZED AS FOLLOWS:

- A MINIMUM OF 4" SCREENED LOAM SHALL BE PROVIDED AS TOPSOIL.
  - DURING THE WINTER MONTHS, THE PERMETER SWALE IS TO BE LINED WITH EITHER MULCH OR EROSION CONTROL BLANKET AS GROUND CONDITIONS DICTATE.
  - THE PERMETER SWALE IS TO BE MULCHED AND SEEDED TO ENCOURAGE A GOOD CATCH OF GRASS AT THE COMPLETION OF CONSTRUCTION WHEN WINTER CONDITIONS HAVE SUBSIDED. SEED MIX SHALL MATCH ONE OF THE FOLLOWING:
- |                                   |     |
|-----------------------------------|-----|
| BROODFOOT TREFOL OR LADINO CLOVER | 27% |
| TALL FESCUE OR SMOOTH BROMEGRASS  | 67% |
| REDTOP                            | 6%  |
| OR                                |     |
| KENTUCKY BLUEGRASS                | 45% |
| CREeping RED FESCUE               | 36% |
| PERENNIAL RYEGRASS                | 19% |

GRASSED WATERWAY DETAIL

NOT TO SCALE



NOTES

- CULVERT SIZE: THE DIAMETER OF THE ARCH CULVERT PIPE SHALL BE THE LARGEST PIPE DIAMETER EQUAL TO THE UNDISTURBED CROSS SECTIONAL WIDTH OF THE BANK FULL CONDITION OF THE STREAM. IT SHOULD FIT INTO THE EXISTING CHANNEL WITHOUT EXCAVATION OF THE WATERWAY CHANNEL OR MAJOR APPROACH FILLS. IF A CHANNEL WIDTH EXCEEDS 3 FEET, ADDITIONAL PIPES MAY BE USED UNTIL THE CROSS SECTIONAL AREA OF THE PIPES APPROACHES THE EXISTING CHANNEL. THE MINIMUM CULVERT SIZE SHALL BE AN 18-INCH DIAMETER PIPE.
- CULVERT LENGTH: THE CULVERTS SHALL EXTEND A MINIMUM OF ONE FOOT BEYOND THE UPSTREAM AND DOWNSTREAM TOE OF THE AGGREGATE PLACED AROUND THE CULVERT. IN NO CASE SHALL THE CULVERT EXCEED THE WIDTH NEEDED TO ACCESS THE WORK LOCATION WITH A SINGLE LANE.
- THE INVERT ELEVATIONS OF THE CULVERT SHALL BE INSTALLED AT OR BELOW THE NATURAL STREAMBED GRADE TO MINIMIZE INTERFERENCE WITH FISH MIGRATION.
- THE CULVERT SHALL BE COVERED WITH A MINIMUM ONE FOOT OF AGGREGATE. IF MULTIPLE CULVERTS ARE USED, THEY SHALL BE SEPARATED BY AT LEAST 12 INCHES OF COMPACTED AGGREGATE FILL.
- TEMPORARY INLET AND OUTLET PROTECTION IS TO BE INSTALLED AS DETAILED.
- GEOTEXTILE FABRIC SHALL BE PLACED ON THE STREAMBED AND STREAMBANKS PRIOR TO PLACEMENT OF THE PIPE AND AGGREGATE. THE FABRIC SHALL COVER THE STREAMBED AND EXTEND A MINIMUM SIX INCHES AND A MAXIMUM ONE-FOOT BEYOND THE END OF THE CULVERT AND BEDDING MATERIAL.

TEMPORARY CONSTRUCTION CULVERT DETAIL

NOT TO SCALE



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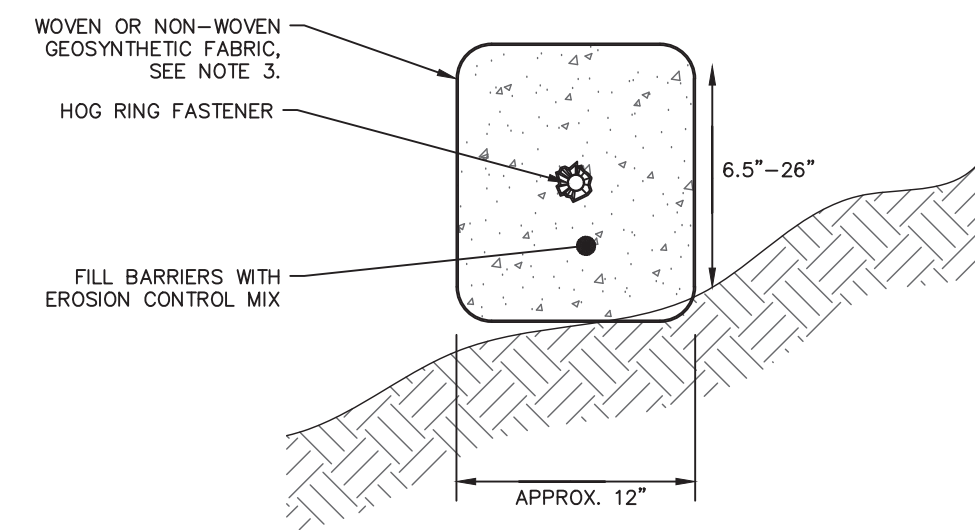
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NO.	REVISIONS:	APPD:	DATE:
0	PRELIMINARY - NOT FOR CONSTRUCTION	DLH	01/26/2022

TITLE:	115 KV GENERATOR LEAD LINE EROSION & SEDIMENTATION CONTROLS
PROJECT:	THREE CORNERS SOLAR KENNEBEC COUNTY, MAINE
CLIENT:	LONGROAD ENERGY MANAGEMENT, LLC 330 CONGRESS ST., BOSTON, MA 02210

SGC PROJECT NUMBER	1166004
DRAWING NUMBER	116600-13-1300
REVISION	1
SHEET NUMBER	2 OF 3



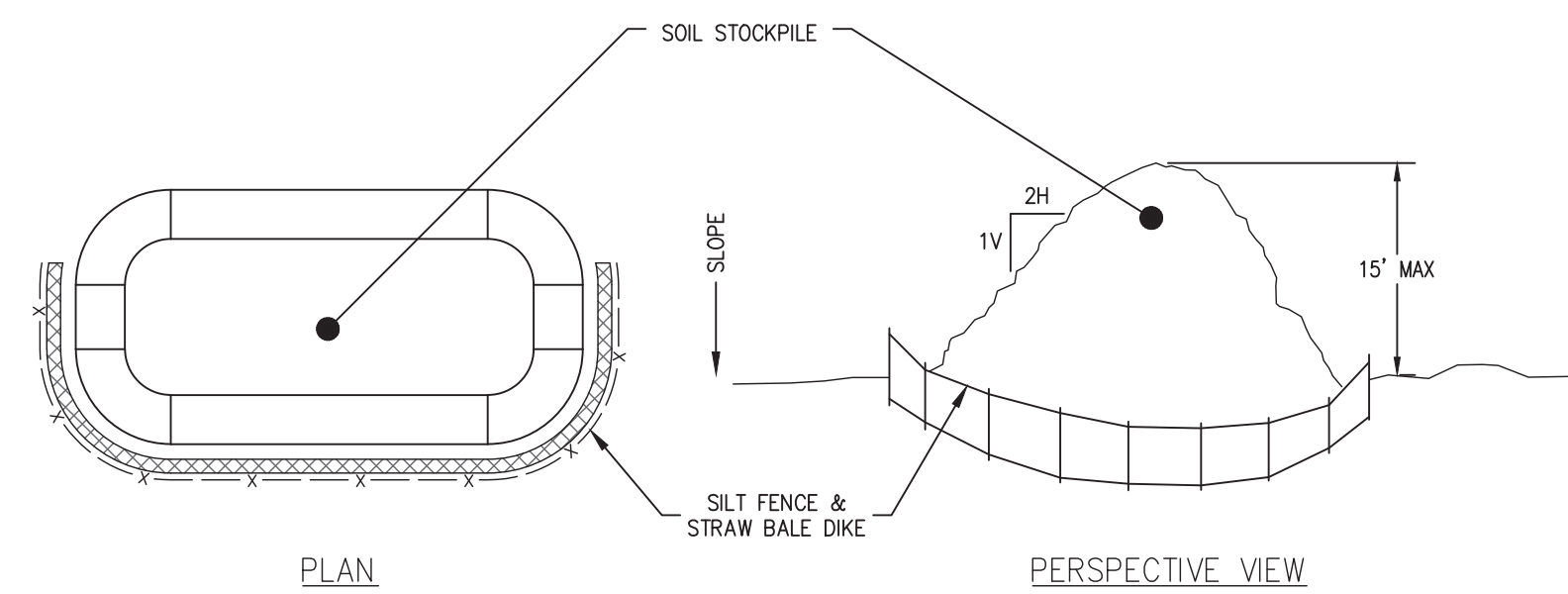
Slope %	MAXIMUM SLOPE LENGTH ABOVE BARRIER				
	8" BARRIER	12" BARRIER	18" BARRIER	24" BARRIER	32" BARRIER
<2	600	750	1000	1300	1650
5	400	500	550	650	750
10	200	250	300	400	500
15	140	170	200	325	450
20	100	125	140	260	400
25	80	100	110	200	275
30	60	75	90	130	200
35	60	75	80	115	150
40	60	75	80	100	125
45	40	50	60	80	100
50	40	50	55	65	75
INSTALLED EFFECTIVE DEPTH	6.5"	9.5"	14.5"	19"	26"

SECTION VIEW  
NOT TO SCALE

NOTES:

1. EROSION CONTROL MIX SHALL CONTAIN A WELL-GRADED MIXTURE OF PARTICLE SIZED AND MAY CONTAIN ROCKS LESS THAN 4" IN DIAMETER. EROSION CONTROL MIX MUST BE FREE OF REFUSE, PHYSICAL CONTAMINANTS, AND MATERIAL TOXIC TO PLANT GROWTH. THE MIX COMPOSITION SHALL MEET THE FOLLOWING STANDARDS:
  - 1.1. THE ORGANIC MATTER CONTENT SHALL BE BETWEEN 80 AND 100 PERCENT, DRY WEIGHT BASIS.
  - 1.2. PARTICLE SIZE BY WEIGHT SHALL BE 100 PERCENT PASSING A 6-INCH SCREEN AND A MINIMUM OF 70 PERCENT, MAXIMUM OF 85 PERCENT, PASSING A 3/4-INCH SCREEN.
  - 1.3. THE ORGANIC PORTION NEEDS TO BE FIBROUS AND ELONGATED.
  - 1.4. LARGE PORTIONS OF SILTS, CLAYS OR FINE SANDS ARE NOT ACCEPTABLE IN THE MIX.
  - 1.5. SUITABLE SALTS CONTENT SHALL BE LESS THAN 4.0 MINIMUM.
2. THE BARRIER MUST BE PLACED ALONG A RELATIVELY LEVEL CONTOUR. TALL GRASSES MAY NEED TO BE CUT TO AVOID VOID SPACES THAT WOULD ALLOW FINES TO WASH UNDER THE BARRIER.
3. BARRIER TO BE FILTEREX FILTERSOXX OR EQUIVALENT.
4. STAKES SHALL BE INSTALLED THROUGH THE MIDDLE OF THE BARRIER AT 10' CENTERS USING 2"x2" GRADE STAKES. STAKING DEPTH 12" MIN FOR SILT LOAM SOILS, 8" MIN FOR CLAY SOILS. PLACE CONCRETE BLOCKS BEHIND BARRIER IN INSTALLATIONS ON PAVEMENT OR LEDGE.
5. FROZEN GROUND, OUTCROPS OF BEDROCK AND VERY ROOTED FORESTED AREAS ARE LOCATIONS WHERE BERMS OF EROSION CONTROL MIX ARE MOST PRACTICAL AND EFFECTIVE.

EROSION CONTROL MIX FILTER 'LOG' DETAIL  
NOT TO SCALE



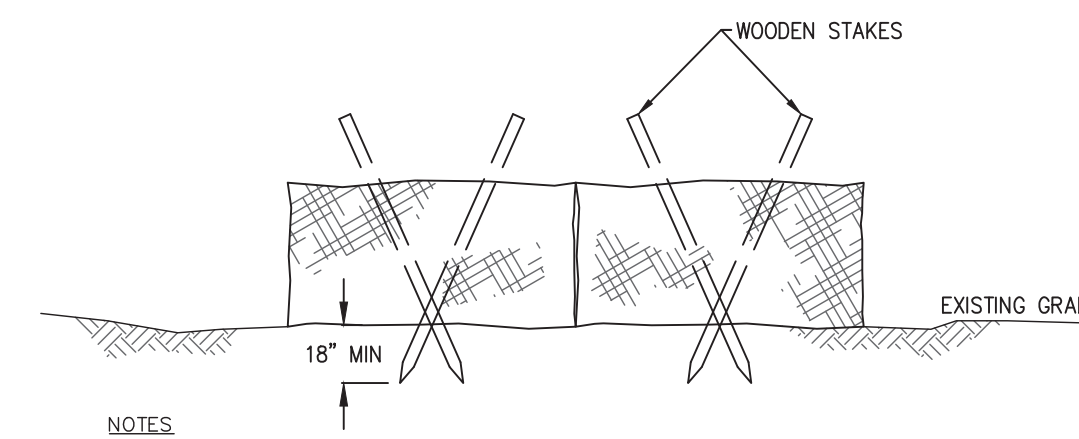
PLAN

PERSPECTIVE VIEW

NOTES:

1. SOIL STOCKPILES SHALL BE SITUATED IN A DRY AREA.
2. SILT FENCE AND STRAW BALES MUST BE PLACED AROUND THE DOWNGRADIENT PERIMETER OF ALL STOCKPILES.
3. IMMEDIATELY APPLY MULCH TO ALL STOCKPILES WHICH WILL BE INACTIVE. IN LIEU OF MULCHING, STOCKPILES MAY BE COVERED WITH A SECURE TARP.

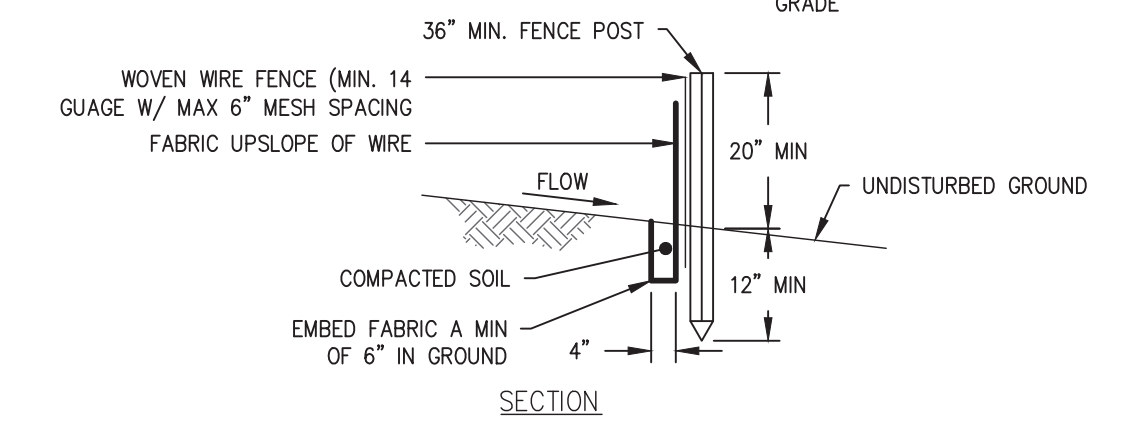
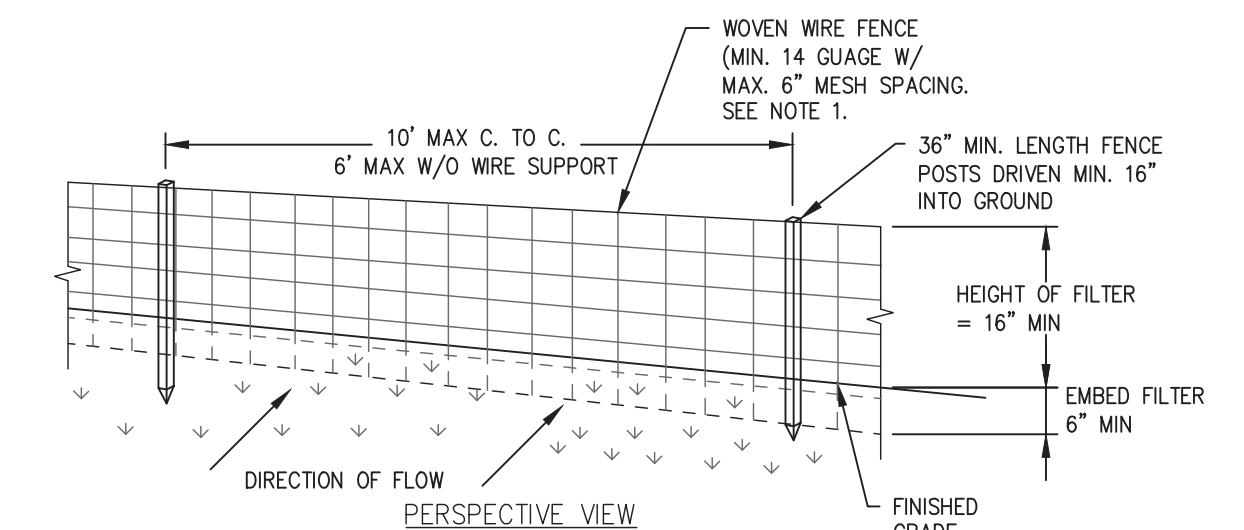
SOIL STOCKPILE DETAIL  
NOT TO SCALE



NOTES:

1. KEY IN 4" TO EXISTING GROUND AND MINIMIZE GAPS BETWEEN BALES.
2. PLACE HAYBALES PARALLEL TO EXISTING GRADE CONTOURS TO PREVENT CONCENTRATED FLOW. DO NOT USE HAYBALE FENCE IN AREAS OF CONCENTRATED FLOW.
3. DRIVE WOODEN STAKES INTO EXISTING GROUND A MINIMUM OF 18 INCHES.
4. HAYBALES SHALL BE REMOVED/REPLACED IF DAMAGED, ROTTED, OR OTHERWISE NON-FUNCTIONAL WITH MANDATORY REPLACEMENT OCCURRING AFTER A PERIOD OF 21 DAYS.
5. HAYBALES ARE TO BE SPREAD AS MULCH AT THE COMPLETION OF CONSTRUCTION ACTIVITIES, DO NOT RE-USE HAYBALES.

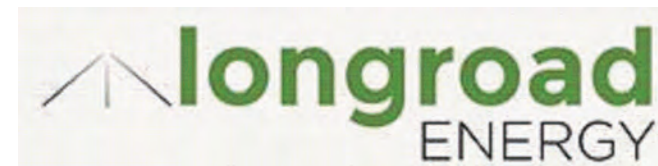
HAYBALE FENCE DETAIL  
NOT TO SCALE



NOTES:

1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" MAXIMUM RECOMMENDED STORAGE HEIGHT.
3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
4. DO NOT PLACE SILT FENCE IN STREAMS OR CONCENTRATED FLOW CONDITIONS.
5. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES. WIRE FENCE REINFORCEMENT REQUIRED WITHIN 100 FT UPSLOPE OF RECEIVING WATERS.
6. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
7. WHEN TWO SECTIONS OF FILTER CLOTH ADJON EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
8. PREFABRICATED UNITS SHALL BE GEOTAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
9. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN SEDIMENT REACHES HALF OF FABRIC HEIGHT.

SILT FENCE DETAIL  
NOT TO SCALE



PRELIMINARY  
NOT FOR CONSTRUCTION

THE INFORMATION CONTAINED HEREIN IS STRICTLY CONFIDENTIAL AND IS THE SOLE PROPERTY OF THE PROJECT OWNER.

DATE: OCTOBER 29, 2021 SCALE: AS NOTED DRAWN: SJF DESIGN: DLH APPROVED: NRB

ONLY VALID WITH ORIGINAL STAMP

NO.	REVISIONS:	APPD:	DATE:
0	PRELIMINARY - NOT FOR CONSTRUCTION	DLH	01/26/2022

TITLE:	115 kV GENERATOR LEAD LINE EROSION & SEDIMENTATION CONTROLS	SGC PROJECT NUMBER	1166004
PROJECT:	THREE CORNERS SOLAR KENNEBEC COUNTY, MAINE	DRAWING NUMBER	116600-13-1300
CLIENT:	LONGROAD ENERGY MANAGEMENT, LLC 330 CONGRESS ST., BOSTON, MA 02210	REVISION	0
		SHEET NUMBER	3 OF 3