

Z:\CLIENTS\TND\NUSC\58466_NPT\DESIGN\SUBSTATION\600-DEERFIELD\CADD\CIVIL-SITE\NPTT603-C100.DWG 12/29/2016 9:35 AM RLREED

SIT	E NOTES:
1.	REFER TO SHEET NPTT602-G001 FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS, AND LEGENDS.
2.	THE SUBSTATION ELECTRICAL EQUIPMENT, ENCLOSURES, FOUNDATIONS, OTHER SUBSTATION APPURTENANCES, OVERHEAD TRANSMISSION, AND UNDERGROUND TRANSMISSION ARE SHOWN FOR REFERENCE ONLY.
3.	THIS DRAWING IS INTENDED TO DEPICT SITE LAYOUT ONLY.
4.	CONTRACTOR SHALL TAKE PRECAUTIONS TO ENSURE NO DISTURBANCE BEYOND DEPICTED LIMIT OF NPDES/LIMIT OF DISTURBANCE.
F	

- 5. NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM HORIZONTAL DATUM - NAD83 VERTICAL DATUM - NAVD88
- 6. UPON COMPLETION OF SITE CLEARING, THE CONTRACTOR SHALL FURNISH AND INSTALL PERMANENT BENCHMARKS IN THE LOCATIONS DEPICTED ON THE PLANS IN ACCORDANCE WITH THE STATE OF NEW HAMPSHIRE SURVEYING CODES AND STANDARDS. BENCHMARK ELEVATIONS SHALL BE SET IN FIELD AND VERIFIED PRIOR TO START OF CONSTRUCTION.
- 6 SF.) 7. OFFSITE ROADWAY (TOWN AND/OR STATE) IMPROVEMENTS AS A RESULT OF THE STATION DEVELOPMENT ARE NOT ANTICIPATED.



PURPOSES ONLY NOT FOR CONSTRUCTION



- 1. REFER TO SHEET NPTT602-G001 FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS, AND LEGENDS.
- 2. REFER TO SHEET NPTT609-C300 FOR GRADING CROSS SECTIONS.
- 3. NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM HORIZONTAL DATUM - NAD83 VERTICAL DATUM - NAVD88
- 4. PROPOSED CONTOURS AND SPOT ELEVATIONS INDICATED REFER TO TOP OF FINISH SURFACE.
- 5. ALL FILL AND CUT SLOPES ARE 3-FT HORIZONTAL TO 1-FT VERTICAL (3:1) UNLESS NOTED OTHERWISE.
- 6. CONTRACTOR SHALL PLACE 4" TOPSOIL AND SEED ON ALL CUT AND FILL SLOPES AS SPECIFIED UNLESS ANOTHER SURFACE MATERIAL IS INDICATED. EROSION CONTROL BLANKETS (NORTH AMERICAN GREEN SC250 OR ENGINEER APPROVED EQUAL) SHALL BE PLACED OVER ALL SEEDED SIDE SLOPES.
- 7. AFTER COMPLETION OF YARD SUBGRADE WORK, THE SURFACE COURSE FOR THE SUBSTATION (INSIDE THE FENCE, 3-FT OUTSIDE THE FENCE, AND WHERE INDICATED ON THE PLANS) SHALL CONSISTS OF A 4-INCH LAYER OF CRUSHED BASALT (ANGULAR STONE) STONE MEETING THE GRADATION REQUIREMENTS EXPLAINED IN THE SPECIFICATIONS.
- CONTRACTOR SHALL PROTECT/REPAIR ALL SLOPES UNTIL FINAL 8. VEGETATIVE OR STONE STABILIZATION.



- 9. ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED AND STABILIZED ON A DAILY BASIS BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION OPERATIONS.
- 10. STABILIZE ALL DITCHES, SWALES, AND PONDS PRIOR TO DIRECTING STORMWATER RUNOFF TO THEM.
- 11. TURF REINFORCEMENT MAT (TRM) SHALL BE INSTALLED ON ALL 3-FT HORIZONTAL TO 1-FT VERTICAL SLOPES (3:1) OR STEEPER, AND BE NORTH AMERICAN GREEN SC250 OR APPROVED EQUAL.
- 12. EARTHWORK AND COMPACTION SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS MADE IN THE GEOTECHNICAL ENGINEERING **REPORT BY OTHERS.**

	L	AYOUT POII	NTS TABLE	
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	233660.85	1111918.54	387.00	CL 2' DITCH
101	233981.72	1112146.85	385.00	CL 2' - 4' DITCH
102	234014.26	1112170.12	381.00	CL 4' DITCH
103	234001.90	1112177.80	385.00	TSLOPE
104	233962.14	1112234.39	385.00	TSLOPE
105	233966.26	1112267.96	385.00	TSLOPE
106	233004.22	1112201.00	385.00	
107	224020.07	1112231.77	384.00	
107	234029.07	1112317.52	304.00	TSLOPE
108	234032.51	1112319.92	384.00	
109	234072.08	1112345.81	384.00	32' SPILLWAY
110	234100.96	1112361.77	384.00	32' SPILLWAY
111	234156.87	1112324.10	385.00	TSLOPE
112	234175.94	1112305.24	386.00	TSLOPE
113	234159.75	1112280.76	380.00	BSLOPE
114	234161.24	1112294.82	380.00	BSLOPE
115	234119.94	1112345.95	380.00	BSLOPE
116	234107.24	1112348.37	380.00	BSLOPE
117	234036.85	1112308.38	380.00	BSLOPE
118	233975.99	1112256.54	380.00	BSLOPE
119	233974.34	1112243.11	380.00	BSLOPE
120	234023.45	1112174.46	380.00	BSLOPE
121	234030.68	1112176.70	380.00	BSLOPE
122	234095.40	1112228.76	380.00	BSLOPE
123	234028.61	1112324.61	384.00	TSLOPE
124	234152.06	1112390.41	384.00	TSLOPE
125	234174.86	1112388.80	384.00	TSLOPE
126	234189.89	1112402.08	384.00	TSLOPE
127	234130 41	1112429 68	377.00	TSLOPF
128	234030.26	1112356 97	383.00	TSLOPE
129	233988 17	1112345 26	383.00	
120	233055 67	1112257 16	383.00	
101	20000001	1112005 14	282.00	
131	200921.00	1112395.11	303.00	
132	200050.00	1112306.18	004.00	
133	233853.39	1112359.15	384.00	ISLOPE
134	233829.69	1112407.22	380.00	TSLOPE
135	233888.72	1112443.26	378.00	FOREBAY/SFILTER
136	233860.69	1112378.12	378.00	CL 4' DITCH
137	233916.25	1112420.70	376.00	CL 4' DITCH
138	233972.78	1112381.87	374.00	CL 4' DITCH
139	233896.80	1112489.81	370.00	CL 4' DITCH
140	233838.33	1112405.51	378.00	FOREBAY/SFILTER
141	233856.88	1112389.53	381.00	T/SLOPE
142	233906.33	1112428.62	379.00	T/SLOPE
143	233864.72	1112457.23	379.00	T/SLOPE
144	233826.65	1112424.67	379.00	T/SLOPE
145	233844.28	1112338.45	385.00	BSLOPE
146	233892.50	1112447.01	378.00	13' SPILLWAY
147	233787.26	1112470.95	375.00	BSLOPE
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NPTT604-C10

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NPTT605-C10.

NOTES:

- 1. SEE SHEET NPTT610-C500 FOR EROSION AND SEDIMENTATION NOTES.
- 2. TOTAL LIMIT OF DISTURBANCE = 365,902 SF = 8.40 ACRES



PLANTING PLAN NOTES:

REFER TO SHEET NPTT602-G001 FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS, AND LEGENDS.

THIS DRAWING IS INTENDED TO DESCRIBE LANDSCAPE INFORMATION ONLY.

ALL DISTURBED AREAS NOT OTHERWISE DEVELOPED SHALL HAVE A MINIMUM OF 4" OF LOAM AND THE FOLLOWING SEED MIXTURE:

- NHDOT TYPE 44 (MIN. 80 LBS/ACRE): 44% CREEPING RED FESCUE (MIN. 35 LBS/ACRE)
- 38% PERENNIAL RYEGRASS (MIN. 30 LBS/ACRE)
- 6% REDTOP (MIN. 5 LBS/ACRE)
- 6% ALSIKE CLOVER (MIN. 5 LBS/ACRE)
- 6% BIRDSFOOT TREFOIL (MIN. 5 LBS/ACRE)

ALL SEEDING SHALL BE IN ACCORDANCE WITH THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (2010) SECTION 644 -- GRASS SEED AND THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES STORMWATER MANUAL VOLUME 3 PERMANENT VEGETATION IN SECTION 4.1.

4. NO SEEDING SHALL BE PLACED BEFORE ROUGH GRADING HAS BEEN PROPERLY COMPLETED.

TOPSOIL SHALL BE INSTALLED AT A MINIMUM DEPTH OF 4". CONTRACTOR SHALL SUBMIT SAMPLES FROM EACH PROPOSED TOPSOIL SOURCE TO A CERTIFIED TESTING LABORATORY TO DETERMINE pH, FERTILITY, ORGANIC CONTENT AND MECHANICAL COMPOSITION. CONTRACTOR SHALL SUBMIT THE TEST RESULTS TO OWNER OR LANDSCAPE ARCHITECT FOR REVIEW. CONTRACTOR SHALL INCORPORATE AMENDMENTS FOR PROPER SOIL pH AND PLANT GROWTH AS RECOMMENDED BY TEST REPORTS AT NO INCREASE IN CONTRACT PRICE.

TEMPORARY AND PERMANENT SEEDING SHALL SHALL BE IN ACCORDANCE WITH THE PLANTING PLAN, NH DES STORMWATER MANUAL VOLUME 3, AND NH DOT STANDARD SPECIFICATIONS SECTION 644.

AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES -- 6 TO 12 INCHES ON COMPACTED SOILS -- PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING.

PLACING LOAM ON SITE: ALL SUBGRADE ELEVATIONS SHOULD BE UNIFORMLY GRADED TO RECEIVE LOAM AND SHALL BE INSPECTED AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO PLACEMENT OF LOAM. PLACE LOAM TO FORM A MINIMUM DEPTH OF 4" WHEN ROLLED, UNLESS OTHERWISE INDICATED. ALL DEPRESSIONS EXPOSED DURING THE ROLLING SHALL BE FILLED WITH ADDITIONAL LOAM.

SEED BED PREPARATION: AFTER FINISH GRADING AND JUST BEFORE SEEDING, THE AREAS TO BE SEEDED SHALL BE LOOSENED TO PROVIDE A ROUGH, FIRM BUT FINELY PULVERIZED SEEDBED. THE INTENT IS A TEXTURE CAPABLE OF RETAINING WATER, SEED AND FERTILIZER WHILE REMAINING STABLE AND ALLOWING SEED TIME TO GERMINATE. SEED SHALL BE APPLIED TO THE CONDITIONED SEEDBED NOT MORE THAN 48 HOURS AFTER THE SEEDBED HAS BEEN PREPARED.

10. LIME AND FERTILIZER SHALL BE INCORPORATED INTO THE SOIL PRIOR TO OR AT THE TIME OF AT THE TIME OF SEEDING. A MINIMUM OF 2 TONS PER ACRE OF AGRICULTURAL LIMESTONE AND 500 LBS. PER ACRE OF 10-20-20 FERTILIZER SHALL BE APPLIED. SEEDING PRACTICES SHALL COMPLY WITH LOCAL USDA SOIL CONSERVATION SERVICES RECOMMENDATIONS.

11. STRAW MULCH OR JUTE MATTING SHALL BE USED WHERE INDICATED ON THE PLANS. A MINIMUM OF 1.5 TONS OF MULCH PER ACRE SHALL BE APPLIED. MULCH SHALL BE ANCHORED IN PLACE WHERE NECESSARY. JUTE MATTING SHALL BE LAID IN THE DIRECTION OF RUNOFF FLOW AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

12. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS AREA NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 15 TO SEPTEMBER 15. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS.



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14. STORM DRAINAGE SHALL BE RATED FOR HS-20 LOADING.

15. LAY UNDERDRAINS BELOW CABLE TRENCH AS SPECIFIED. PROVIDE MINIMUM 0.5% SLOPE ON ALL UNDERDRAINS. ADDITIONAL UNDERDRAINS MAY BE REQUIRED AS DEEMED NECESSARY BY THE OWNER, GEOTECHNICAL ENGINEER AND/OR ENGINEER BASED ON FINDINGS AFTER EARTHWORK AND EXCAVATION OPERATIONS COMMENCE. PROVIDE UNDERDRAIN CLEANOUTS AT A MINIMUM OF EVERY 200' OF PIPE OR ONE CLEANOUT PER PIPE RUN WHERE THE PIPE RUN IS LESS THAN 200'.

PIPE SCHEDULE						
GTH (FT)	SLOPE	SIZE				
338	0.010	24" PERF. HDPE				
42	0.015	24" PERF. HDPE				
57	0.010	24" HDPE				
27	0.065	4" PVC				
53	0.019	18" RCP				
164	0.005	12" HDPE				
54	0.005	12" HDPE				
10	0.004(*)	12" HDPE				
52	0.058	6" HDPE				
32	0.008	18" RCP				

(*) APPROXIMATE SLOPE TO MATCH EXISTING 12" CMP.

UNDERDRAIN SCHEDULE						
PIPE #	LENGTH (FT)	SLOPE				
UD-1	205	0.005				
UD-2	205	0.005				
UD-3	370	0.005				
UD-4	192	0.016				
UD-5	218	0.015				
UD-6	370	0.005				
UD-7	200	0.015				
UD-8	200	0.015				
UD-9	200	0.010				
UD-10	200	0.005				
UD-11	200	0.005				
UD-12	200	0.005				
UD-13	255	0.015				
UD-14	175	0.019				

NOTES:

1. UNDERDRAINS WITHIN SUBSTATION ARE 8" PERFORATED HDPE.

2. UNDERDRAIN WITHIN SAND FILTER ARE 6" PERFORATED HDPE.

UNDERDRAIN LAYOUT POINT TABLE						
POINT #	NORTHING	EASTING	INVERT ELEV	DESCRIPTION		
100	233659.68	1111936.95	383.52	UNDERDRAIN		
101	233537.75	1112101.94	382.50	UNDERDRAIN		
102	233415.83	1112266.92	383.52	UNDERDRAIN		
103	233713.56	1112486.59	381.71	UNDERDRAIN		
104	233827.82	1112331.98	378.58	UNDERDRAIN		
105	233957.24	1112156.85	381.71	UNDERDRAIN		
106	233887.99	1112112.03	382.60	UNDERDRAIN		
107	233769.18	1112272.92	379.60	UNDERDRAIN		
108	233834.92	1112072.81	383.20	UNDERDRAIN		
109	233716.11	1112233.70	380.20	UNDERDRAIN		
110	233781.85	1112033.59	382.90	UNDERDRAIN		
111	233663.04	1112194.48	380.90	UNDERDRAIN		
112	233728.76	1111994.36	382.60	UNDERDRAIN		
113	233609.96	1112155.25	381.60	UNDERDRAIN		
114	233579.53	1112132.76	382.00	UNDERDRAIN		
115	233460.67	1112293.61	383.00	UNDERDRAIN		
116	233621.29	1112163.62	381.50	UNDERDRAIN		
117	233502.43	1112324.47	382.50	UNDERDRAIN		
118	233520.20	1112319.19	385.01	UNDERDRAIN		
119	233725.27	1112470.74	381.26	UNDERDRAIN		
120	233685.95	1112429.25	382.80	UNDERDRAIN		
121	233790.12	1112288.29	379.40	UNDERDRAIN		



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SHEET 7 OF 1





GRADING CROSS SECTION NOTES:

- LEGENDS.
- HORIZONTAL DATUM NAD83 VERTICAL DATUM - NAVD88
- SURFACE.
- **REPORT BY OTHERS.**
- 7. STRIP AND STOCKPILE EXISTING TOPSOIL IN AREAS OF PROPOSED GRADING AND EARTHWORK.

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6. EARTHWORK AND COMPACTION SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS MADE IN THE GEOTECHNICAL ENGINEERING RECOMMENDATIONS

5. CONTRACTOR SHALL PLACE 4" TOPSOIL AND SEED ON ALL CUT AND FILL SLOPES AS SPECIFIED UNLESS ANOTHER SURFACE MATERIAL IS INDICATED.

4. PROPOSED CONTOURS AND SPOT ELEVATIONS INDICATED REFER TO TOP OF FINISH

3. NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM

2. THIS DRAWING IS INTENDED TO DESCRIBE THE GRADING CROSS SECTIONS ONLY.

1. REFER TO SHEET NPTT602-G001 FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS, AND



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OUTLET CONTROL STRUCTURE NOTES:

- CATCH BASIN STRUCTURE IS TO BE PRECAST
- 2. THE LOCATION AND ELEVATION INDICATED ON NPTT607-C104 ARE AT THE TOP CENTER OF
- GRATING SHALL BE AMICO STANDARD WELDED TYPE "W" 19W4 RESISTANCE WELDED GRATING AS MANUFACTURED BY ALABAMA METAL INDUSTRIES CORP. OR ENGINEERING



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MATERIAL	SPECIFICATIONS / TEST METHOD	SIZE	NOTES
FILTER MIXTURE	NEW HAMPSHIRE FILTER MIXTURE A; ASTM C-33 CONCRETE SAND - 50% TO 55% BY VOLUME LOAMY SAND TOPSOIL - 20% TO 30% BY VOLUME MODERATELY FINE SHREDDED BARK OR WOOD FIBER MULCH - 20% TO 30% BY VOLUME	0.02" TO 0.04" 15% TO 25% PASSING SIEVE NO. 200 BY WEIGHT < 5 PASSING SIEVE NO. 200 BY WEIGHT	SAND SUBSTITUTIONS SUCH AS DIABASE AND GREYSTONE #10 ARE NOT ACCEPTABLE. NO CALCIUM CARBONATED OR DOLOMITIC SAND SUBSTITUTIONS ARE ACCEPTABLE. "ROCK DUST" CAN BE USED FOR SAM
UNDERDRAIN PIPING	ASTM F758, TYPE PS28 OR AASHTO-M-278	6" RIGID SCHEDULE 40 PVC OR HDPE	3/8" PERFORATED @ 6" ON CENTER, 4 HOLES PER ROW, MINIMUM OF 3" OF GRAVEL OVER PIPES.
UNDERDRAIN GRAVEL	ASTM C-33	NO. 4 (0.75" TO 2")	CLEAN WASHED STONE
STONE FILL	ASTM C-33	NO. 57 (1" TO 0.187")	CLEAN WASHED STONE
PEA GRAVEL	ASTM D448	NO. 8 OR NO. 9 (3/8" TO 1/8")	CLEAN WASHED STONE
FILTER FABRIC	GEOTEXTILE	N/A	PE TYPE 1, NON WOVEN

NOTES:

1. ABSOLUTELY NO RUNOFF IS TO ENTER THE SAND FILTER UNTIL ALL CONTRIBUTING DRAINAGE AREAS HAVE BEEN STABILIZED. SURFACE OF FILTER BED IS TO BE LEVEL.

NOTE:

- SAND FILTER AREA.

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STONE FILL, 3" THICK

24" FILTER MEDIA

PEA GRAVEL, 3" THICK

18" UNDERDRAIN GRAVEL

SUBSTITUTIONS ARE ACCEPTABLE. NO

"ROCK DUST" CAN BE USED FOR SAND.

1. PERFORATIONS SHALL BE MADE IN THE 90 DEGREE BEND TO ASSURE THE DETENTION AREA COMPLETELY DRAINS TO THE SAND FILTER AREA.

2. POSITIVE DRAINAGE IS TO BE MAINTAINED FROM THE FOREBAY TO THE

PERFORATED STAND PIPE 5 C509 NOT TO SCALE

PNT	POINT TABLE					
	NORTHING	EASTING	DESCRIPTION			
1	325138.56	988610.55	CORNER OF PAD			
2	325142.78	988610.99	FENCE CORNER			
3	325531.21	988291.39	CORNER OF PAD			
4	325530.77	988295.61	FENCE CORNER			
5	326008.06	988878.03	CORNER OF PAD			
6	326003.84	988877.60	FENCE CORNER			
7	325997.97	988886.23	BEGIN ACCESS ROAD 1			
8	325894.48	988972.94	135' RAD PT TO CL OF RC			
9	325979.63	989077.69	ACCESS ROAD 1 - P.T.			
10	325955.36	989097.42	ACCESS ROAD 1 - P.C.			
11	326040.51	989202.18	135' RAD PT TO CL OF RC			
12	325961.65	989105.19	ACCESS ROAD 1 - END P			
13	325905.51	989202.18	ACCESS ROAD 1 - P.T.			
14	325905.51	989308.60	P.I. ACCESS ROADS 1 & 2			
15	325879.13	989233.53	ACCESS ROAD 2 - P.C.			
16	325785.51	989308.60	120' RAD PT TO CL OF RC			
17	325757.43	989081.76	ACCESS ROAD 2 - END P			
18	325/47.33	989089.97				
19	325/47.79	989085.72				
20	325/57.43	989081.76	BEGIN ACCESS ROAD 2			
21	325545.49	988841.05				
22	320040.93	988837.43				
23	325413.57	988948.88				
24	325825 51	980555 77				
20	325840 12	989624 22				
27	325905.51	989616.78				
	325985.51	989542.00	70' RAD PT			
29	325988.05	989611.96	TIE INTO EXISTING ROAD			
	205040 70	080131.66	30' RAD PT			

GENERAL NOTES, ABBREVIATIONS, AND LEGENDS.

FOUNDATIONS, OTHER STATION APPURTENANCES,

TRANSMISSION ARE SHOWN FOR REFERENCE ONLY.

OVERHEAD TRANSMISSION, AND UNDERGROUND

NO DISTURBANCE BEYOND DEPICTED LIMIT OF

HORIZONTAL DATUM - NAD83

CONTRACTOR SHALL FURNISH AND INSTALL

IN FIELD AND VERIFIED PRIOR TO START OF

PERMANENT BENCHMARKS IN THE LOCATIONS

DEPICTED ON THE PLANS IN ACCORDANCE WITH THE

STATE OF NEW HAMPSHIRE SURVEYING CODES AND

DEPICTED IN ACCORDANCE WITH NEW HAMPSHIRE

STANDARDS. BENCHMARK ELEVATIONS SHALL BE SET

VERTICAL DATUM - NAVD88

NPDES/LIMIT OF DISTURBANCE.

CONSTRUCTION.

ONLY.

FOR PERMITTING **PURPOSES ONLY** NOT FOR CONSTRUCTION

- 10 - 1 Fransmissior Business FRANKLIN STATION SITE LAYOUT PLAN DES: RLR CHK:JJ DRW: KRB APR: B TOWN: FRANKLIN, ANSMISSION LIN MILE NO: SHEET 3 OF 19

NPTT503-C100 EVISION: 11/10/2013

GRADING PLAN NOTES:

- 1. REFER TO SHEET NPTT502-G001 FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS, AND LEGENDS.
- 2. REFER TO SHEETS NPTT509-C300 AND NPTT510-C301 FOR GRADING CROSS SECTIONS.
- 3. NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM HORIZONTAL DATUM - NAD83 VERTICAL DATUM - NAVD88
- 4. PROPOSED CONTOURS AND SPOT ELEVATIONS INDICATED REFER TO TOP OF FINISH SURFACE.
- 5. ALL FILL AND CUT SLOPES ARE 3-FT HORIZONTAL TO 1-FT VERTICAL (3:1) UNLESS NOTED OTHERWISE.
- 6. CONTRACTOR SHALL PLACE 4" TOPSOIL AND SEED ON ALL CUT AND FILL SLOPES AS SPECIFIED UNLESS ANOTHER SURFACE MATERIAL IS INDICATED. EROSION CONTROL BLANKETS (NORTH AMERICAN GREEN SC250 OR ENGINEER APPROVED EQUAL) SHALL BE PLACED OVER ALL SEEDED SIDE SLOPES.
- AFTER COMPLETION OF YARD SUBGRADE WORK, THE SURFACE COURSE FOR THE STATION (INSIDE THE FENCE, 3-FT OUTSIDE THE FENCE, AND WHERE INDICATED ON THE PLANS) SHALL CONSIST OF A 4-INCH LAYER OF CRUSHED BASALT (ANGULAR STONE) STONE MEETING THE GRADATION REQUIREMENTS INDICATED IN THE SPECIFICATIONS.
- 8. CONTRACTOR SHALL PROTECT/REPAIR ALL SLOPES UNTIL FINAL VEGETATIVE OR STONE STABILIZATION.
- 9. ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED AND STABILIZED ON A DAILY BASIS BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION OPERATIONS.
- 10. STABILIZE ALL DITCHES, SWALES, AND PONDS PRIOR TO DIRECTING STORMWATER RUNOFF TO THEM.
- 11. TURF REINFORCEMENT MAT (TRM) SHALL BE INSTALLED ON ALL 3-FT HORIZONTAL TO 1-FT VERTICAL SLOPES (3:1) OR STEEPER, AND BE NORTH AMERICAN GREEN SC250 OR APPROVED EQUAL.
- 12. EARTHWORK AND COMPACTION SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS MADE IN THE GEOTECHNICAL ENGINEERING REPORT BY OTHERS.

POINT TABLE							
PNT	NORTHING	EASTING	ELEV.	DESCRIPTION			
45	325941.09	989501.31	303.00 2	END DIVERSION (SW-6)			
46	325935.22	989501.51	303.50	DITCH CL (SW-6) - END			
47	325915.51	989541.93	303.27	ACCESS ROAD EDGE - P.C.			
48	325895.51	989541.93	303.27	ACCESS ROAD EDGE - P.C.			
49	325988.05	989611.96	300.37	TIE INTO EXISTING ROAD			
50	325905.51	989616.78	300.71	TIE INTO EXISTING ROAD			
51	325840.12	989624.22	301.81	TIE INTO EXISTING ROAD			
52	325873.31	989509.24	304.00 2				
53	325878.38	989513.74	302.50	DITCH CL (SW-5) - END			
54	325886.51	989462.16	307.79	DITCH CL (SW-5) - P.C.			
55	325773.48	989132.14	339.00	DITCH CL (SW-5) - BEGIN			
56	325760.68	989136.76	341.99	HIGH POINT			
57	325787.18	989079.22	337.24	DITCH CL (SW-3) - END			
58	325757.43	989081.76	342.50	ACCESS ROAD 2 CL - BEGIN			
59	325747.79	989085.72	342.53	FENCE CORNER			
60	325747.33	989089.97	342.50	CORNER OF PAD			
61	325724.44	989131.69	336.83	DITCH CL (SW-4) - BEGIN			
62	325639.68	989224.68	338.40	EDGE OF BERM			
63	325628.51	989211.87	336.20	DITCH CL (SW-4) - P.C.			
64	325615.27	989197.02	342.50	EDGE OF LEVEL GRADE			
65	325595.23	989228.25	338.27	EDGE OF BERM			
66	325604.21	989213.82	336.07	DITCH CL (SW-4) - P.T.			
67	325533.76	989190.01	334.73	EDGE OF BERM			
68	325524.89	989164.46	331.50	DITCH CL (SW-4) - END			
69	325545.93	988837.43	345.67	FENCE CORNER			
70	325545.49	988841.65	345.70	CORNER OF PAD			
71	325414.01	988944.66	345.67	FENCE CORNER			
72	325413.57	988948.88	345.70	CORNER OF PAD			

FOR PERMITTING PURPOSES ONLY NOT FOR CONSTRUCTION

REFER TO SHEET NPTT502-G001 FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS, AND LEGENDS.

2. THIS DRAWING IS INTENDED TO DESCRIBE LANDSCAPE INFORMATION ONLY.

3. ALL DISTURBED AREAS NOT OTHERWISE DEVELOPED SHALL HAVE A MINIMUM OF 4" OF LOAM AND THE FOLLOWING SEED MIXTURE:

- NHDOT TYPE 44 (MIN. 80 LBS/ACRE):
- 44% CREEPING RED FESCUE (MIN. 35 LBS/ACRE) 38% PERENNIAL RYEGRASS (MIN. 30 LBS/ACRE)
- 6% REDTOP (MIN. 5 LBS/ACRE)
- 6% ALSIKE CLOVER (MIN. 5 LBS/ACRE)
- 6% BIRDSFOOT TREFOIL (MIN. 5 LBS/ACRE)

ALL SEEDING SHALL BE IN ACCORDANCE WITH THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (2010) SECTION 644 -- GRASS SEED AND THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES STORMWATER MANUAL VOLUME 3 PERMANENT VEGETATION IN SECTION 4.1.

NO SEEDING SHALL BE PLACED BEFORE ROUGH GRADING HAS BEEN PROPERLY COMPLETED.

TOPSOIL SHALL BE INSTALLED AT A MINIMUM DEPTH OF 4". CONTRACTOR SHALL SUBMIT SAMPLES FROM EACH PROPOSED TOPSOIL SOURCE TO A CERTIFIED TESTING LABORATORY TO DETERMINE pH, FERTILITY, ORGANIC CONTENT AND MECHANICAL COMPOSITION. CONTRACTOR SHALL SUBMIT THE TEST RESULTS TO OWNER OR LANDSCAPE ARCHITECT FOR REVIEW. CONTRACTOR SHALL INCORPORATE AMENDMENTS FOR PROPER SOIL pH AND PLANT GROWTH AS RECOMMENDED BY TEST REPORTS AT NO INCREASE IN CONTRACT PRICE.

TEMPORARY AND PERMANENT SEEDING SHALL SHALL BE IN ACCORDANCE WITH THE PLANTING PLAN, NH DES STORMWATER MANUAL VOLUME 3, AND NH DOT STANDARD SPECIFICATIONS SECTION 644.

AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES -- 6 TO 12 INCHES ON COMPACTED SOILS -- PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING.

PLACING LOAM ON SITE: ALL SUBGRADE ELEVATIONS SHOULD BE UNIFORMLY GRADED TO RECEIVE LOAM AND SHALL BE INSPECTED AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO PLACEMENT OF LOAM. PLACE LOAM TO FORM A MINIMUM DEPTH OF 4" WHEN ROLLED, UNLESS OTHERWISE INDICATED. ALL DEPRESSIONS EXPOSED DURING THE ROLLING SHALL BE FILLED WITH ADDITIONAL LOAM.

SEED BED PREPARATION: AFTER FINISH GRADING AND JUST BEFORE SEEDING, THE AREAS TO BE SEEDED SHALL BE LOOSENED TO PROVIDE A ROUGH, FIRM BUT FINELY PULVERIZED SEEDBED. THE INTENT IS A TEXTURE CAPABLE OF RETAINING WATER, SEED AND FERTILIZER WHILE REMAINING STABLE AND ALLOWING SEED TIME TO GERMINATE. SEED SHALL BE APPLIED TO THE CONDITIONED SEEDBED NOT MORE THAN 48 HOURS AFTER THE SEEDBED HAS BEEN PREPARED.

10. LIME AND FERTILIZER SHALL BE INCORPORATED INTO THE SOIL PRIOR TO OR AT THE TIME OF AT THE TIME OF SEEDING. A MINIMUM OF 2 TONS PER ACRE OF AGRICULTURAL LIMESTONE AND 500 LBS. PER ACRE OF 10-20-20 FERTILIZER SHALL BE APPLIED. SEEDING PRACTICES SHALL COMPLY WITH LOCAL USDA SOIL CONSERVATION SERVICES RECOMMENDATIONS.

11. STRAW MULCH OR JUTE MATTING SHALL BE USED WHERE INDICATED ON THE PLANS. A MINIMUM OF 1.5 TONS OF MULCH PER ACRE SHALL BE APPLIED. MULCH SHALL BE ANCHORED IN PLACE WHERE NECESSARY. JUTE MATTING SHALL BE LAID IN THE DIRECTION OF RUNOFF FLOW AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

12. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS AREA NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 15 TO SEPTEMBER 15. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS.

LEGEND:

LEGEND:					Transr Busi	nission ness
+ + + + +						#
	BITUMINOUS PAVEMENT GRAVEL STO	S CONCRETE			TATION PLAN	DATE: 10/1/2015
	RIP RAP STO	ONE	NORTH		FRANKLIN S PLANTING	:
			0 60' SCALE IN FEET	120'	DES: RLR DRW: KRB	CHK:JJS APR: BSS
					FRAN	KLIN, NH
		FOR	PERMITTING		TRANSMISS	SION LINE:
		PURI	POSES ONLY		MILE NO:	
					SHEET 6	OF 19

NOT FOR CONSTRUCTION

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GRADING CROSS SECTION NOTES:

- 1. REFER TO SHEET NPTT502-G001 FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS, AND LEGENDS.
- 2. THIS DRAWING IS INTENDED TO DESCRIBE THE GRADING CROSS SECTIONS ONLY.
- 3. NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM:

HORIZONTAL DATUM - NAD83 VERTICAL DATUM - NAVD88

- 4. PROPOSED CONTOURS AND SPOT ELEVATIONS INDICATED REFER TO TOP OF FINISH SURFACE.
- 5. CONTRACTOR SHALL PLACE 4" TOPSOIL AND SEED ON ALL CUT AND FILL SLOPES AS SPECIFIED UNLESS ANOTHER SURFACE MATERIAL IS INDICATED.
- 6. EARTHWORK AND COMPACTION SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS MADE IN THE GEOTECHNICAL ENGINEERING **RECOMMENDATIONS REPORT BY OTHERS.**
- 7. STRIP AND STOCKPILE EXISTING TOPSOIL IN AREAS OF PROPOSED GRADING AND EARTHWORK.

0	60'	120'
	SCALE IN FEET	
0	6'	12'
	SCALE IN FEET	

FOR PERMITTING **PURPOSES ONLY** NOT FOR CONSTRUCTION

HORIZ:

VERT:

THE NORTHERN PASS							
ansmissic Business	on						
SITE CROSS SECTIONS	NOTED DATE: 10/1/2015						
: RLR CHK:J.	0 SCALE: AS						
/: KRB APR: BSS /N: FRANKLIN, NH NSMISSION LINE:							
e no: tet 9 of 1 PTT509-C3 sion: 11/10/201	9 00 3						

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C101

GRADING CROSS SECTION NOTES:

- 1. REFER TO SHEET NPTT502-G001 FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS, AND LEGENDS.
- 2. THIS DRAWING IS INTENDED TO DESCRIBE THE GRADING CROSS SECTIONS ONLY.
- 3. NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM:

HORIZONTAL DATUM - NAD83 VERTICAL DATUM - NAVD88

- 4. PROPOSED CONTOURS AND SPOT ELEVATIONS INDICATED REFER TO TOP OF FINISH SURFACE.
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- 7. STRIP AND STOCKPILE EXISTING TOPSOIL IN AREAS OF PROPOSED GRADING AND EARTHWORK.

0	60'	120'						
	SCALE IN FEET							

VERT:

HORIZ:

SCALE IN FEET

FOR PERMITTING **PURPOSES ONLY** NOT FOR CONSTRUCTION

•	•	•	•	17 RLR CJK	15 KRB BSS	DRWN CHKD			
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•				REISSUED FOR PERMITTING	ISSUED FOR PERMITTING	REVISION			
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	FRANKLIN STATION	CITE PDACO SECTIONIC		P isses	sio sis	S NOTED DATE: 10/1/2015 3			
						3/ ¹⁰ SCALE: AS NOTED DATE: 10/1/2015 3			
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					5i0 :s #	으 [편] 표 [3/ 10/ SCALE: AS NOTED DATE: 10/1/2015] ㅋ			

RLR JJS

PAVEMENT AGGREGATE BASE STONE GRADATION							
SIEVE	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVE						
2-1/2 INCH	100						
2 INCH	95-100						
3/4 INCH	50-75						
1/4 INCH	25-45						
NO. 40	5-20						
NO. 100	2-12						

1. REFER TO SHEET NPTT102-G001 FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS,

2. THE STATION ELECTRICAL EQUIPMENT, ENCLOSURES, FOUNDATIONS, OTHER STATION APPURTENANCES, OVERHEAD TRANSMISSION, AND UNDERGROUND TRANSMISSION ARE SHOWN FOR REFERENCE ONLY.

3. THIS DRAWING IS INTENDED TO DEPICT SITE LAYOUT ONLY.

4. REFER TO STATION PHYSICAL DRAWINGS FOR FENCE AND GATE DETAILS.

5. CONTRACTOR SHALL TAKE PRECAUTIONS TO ENSURE NO DISTURBANCE BEYOND DEPICTED LIMIT OF NPDES/LIMIT OF DISTURBANCE.

6. NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM HORIZONTAL DATUM - NAD83 VERTICAL DATUM - NAVD88

COMMECTICUT RIVER

7. UPON COMPLETION OF SITE CLEARING, THE CONTRACTOR SHALL FURNISH AND INSTALL PERMANENT BENCHMARKS IN THE LOCATIONS DEPICTED ON THE PLANS IN ACCORDANCE WITH THE STATE OF NEW HAMPSHIRE SURVEYING CODES AND STANDARDS. BENCHMARK ELEVATIONS SHALL BE SET IN FIELD AND VERIFIED PRIOR TO START OF CONSTRUCTION.

8. CONTRACTOR SHALL INSTALL GUIDERAIL SYSTEMS AS DEPICTED IN ACCORDANCE WITH NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND STANDARD PLANS FOR THRIE BEAM SINGLE FACED GUIDERAIL WITH STEEL POSTS AND TERMINAL UNIT TYPE G-2. THIS END SECTION IS NOT CRASH WORTHY. IT IS INTENDED FOR USE PRIMARILY ON LOW SPEED ACCESS ROADS WHERE IT CAN NOT BE HIT.

SCALE IN FEET

FOR PERMITTING

PURPOSES ONLY

NOT FOR CONSTRUCTION

NORTH

9. OFFSITE ROADWAY (TOWN AND/OR STATE) IMPROVEMENTS AS A RESULT OF THE STATION DEVELOPMENT ARE NOT ANTICIPATED.

REVISION: XXX

ES: JJS CHK:R RW: JJS APR: B

TOWN: OLD CANNAN ROAD, PITTSBURG ANSMISSION LI

MILE NO: SHEET 3 OF 19

NPTT103-C10

			P	OINT	TABLE][PC	INT T	ABLE
	PNT NO	ORTHING	EASTING	ELEV.	DESCRIPTION] [PNT N	ORTHING	EASTING	ELEV.	DESCRIPTION
	1 9	919583.55	1036267.42		CHAIN-LINK FENCE CORNER] [125	919581.11	1036098.97	1197.65	BENCH TOP - DAYLIGHT
	2 9	919535.67	1036208.40		CHAIN-LINK FENCE CORNER	[126	919546.23	1036058.26	1195.16	BENCH TOP - PC
	3 9	919435.49	1036289.67		CHAIN-LINK FENCE CORNER	╡┠	127	919441.19	1036028.00	1194.77	BENCH TOP - END
2' WIDE' FLAT	4 9	919483.37	1036348.68		CHAIN-LINK FENCE CORNER	┨┠	128	919368.93	1036163.87	1164.41	TOP OF BERM
110 BOTTOM DITCH C506	5 9	919454.53	1036274.23		CENTERLINE 20' CHAIN-LINK GATE	┨┠	129	919353.36	1036209.88	1165.25	
	69	919520.15	1036220.99		CENTERLINE 20' CHAIN-LINK GATE	┨┠	130	919593.40	1036132.85	1194.58	
EDGE OF TRANSITION	р () 9 9 9	919438.60 	1036200 06			┨┠	137	919108.65	1036299.77	1145.30	
STATION PAD (TYP.)	9 0	919534.85	1036202.62	1172.77	ASPHALT CORNER	┨┠	133	919143.45	1036323.12	1145.10	ASPHALT /CONCRETE CHANNEL - PI
	10 9	919471.84	1036124.97	1167.25	ASPHALT CORNER	┨┠	134	919173.89	1036347.17	1144.05	ASPHALT /CONCRETE CHANNEL - PT
	11 9	919404.52	1036179.59	1166.39	ASPHALT PC	1	135	919142.54	1036324.32	1145.04	FLOWLINE CONCRETE CHANNEL
	13 9	919372.23	1036178.92	1165.16	ASPHALT PT & PC] [136	919176.13	1036350.85	1143.99	FLOWLINE CONCRETE CHANNEL
	14 9	919231.05	1036191.84	1155.98	ASPHALT PT	╷╹					
	15 9	919170.90	1036268.17	1149.60	ASPHALT PI						
ND GUIDERAIL	16 9	919143.41	1036292.77	1147.66	ASPHALT PC	-					
TATION	17 9	919100.02	1036295.37	1145.34	ASPHALT PT (MATCH EXISTING)	-					
RAVEL PAD	18 9	919182.83	1036358.06	1143.94	ASPHALT PC (MATCH EXISTING)	G	RADING	G PLAN NO	DTES:		
	19 9	919174.05	1036314.23	1147.02		-	4 55			100 000	
	20 9	919190.56	1036283.62	1149.10		-	I. RE AB	REVIATIO	NPIT	EGENDS	FUR ADDITIONAL GENERAL NO
5	21 9	919255 56	1036107 59	1164 66		-	o		,		
	23 0	919364.04	1036206.37	1165.59	ASPHALT PT	1	2. RE	FER TO SI	HEET NPTT	109-C300	FOR GRADING CROSS SECTION
2' WIDE FLAT 6	24 9	919367.01	1036210.02	1165.92	ASPHALT - GRADE BREAK	1	3. NE	W HAMPS	HIRE STAT	E PLANE	COORDINATE SYSTEM
BOTTOM DITCH C506	25 9	919430.01	1036287.68	1171.41	ASPHALT CORNER	1			ONTAL DAT	UM - NAE 1 - NAV - NA)83 8
32 32 32	26 9	919388.77	1036160.17		ASPHALT CENTER 25' RADIUS	1					
	27 9	919307.74	1036252.05		ASPHALT CENTER 72.5', 85' & 97.5' RADIUS	1	4. PR	OPOSED (S AND SP	OT ELEVATIONS INDICATED REF
	28 9	919120.07	1036266.69		ASPHALT CENTER 35' RADIUS	1	UF	1 1111311 31			
	29 9	919204.85	1036330.85		ASPHALT CENTER 35' RADIUS]	5. ALI				3-FT HORIZONTAL TO 1-FT VERT
	30 9	919590.59	1036268.15	1172.79	GRAVEL PAD CORNER		UN	ILESS NOT		WISE.	
	31 9	919536.40	1036201.36	1172.79	GRAVEL PAD CORNER	1	6. CO	NTRACTO	R SHALL P	LACE 4"	TOPSOIL AND SEED ON ALL CUT
	32 9	919428.46	1036288.94	1171.39	GRAVEL PAD CORNER	4	SL(UPES AS S	SPECIFIED		ANOTHER SURFACE MATERIAL I
6' WIDE BERM	33 9	919482.65	1036355.73	1171.40		-	SC	250 OR EN	IGINEER A	PPROVE	D EQUAL) SHALL BE PLACED OVI
SEE STORMWATER	34 9	919141.63	1036325.52	1145.10		-	SE	EDED SIDI	E SLOPES.		
SYSTEM PLAN	36 0	210120.09 	1036275 00	1147.04		-	7. AF	TER COM	PLETION O	F YARD S	UBGRADE WORK, THE SURFACE
DETENTION	37 0	919240 87	1036199.58	1155.73	ACCESS ROAD CL - PC	1	FO	R THE SU	BSTATION	(INSIDE T	HE FENCE, 5-FT OUTSIDE THE F
BASIN - 1 LAYOUT	38 9	919306.77	1036115.94		ACCESS ROAD CL - PI	1			CATED ON	THE PLA	NS) SHALL CONSISTS OF A 4-INC
	39 9	919363.79	1036188.38	1164.91	ACCESS ROAD CL - GRADE BREAK	1	GR	ADATION	REQUIREN	IENTS EX	PLAINED IN THE SPECIFICATION
	40 9	919373.75	1036198.49	1165.74	ACCESS ROAD CL - PT	1	• • • •				
SLOPE WITH RIPRAP C507	100 9	919596.04	1036263.76	1170.79	DITCH CL - BEGINNING	1	o. CO VE	GETATIVE	OR STON	RUTECI E STABILI	REPAIR ALL SLOPES UNTIL FINA ZATION.
	101 9	919543.91	1036195.41	1169.93	DITCH CL - PI		0				
TO DAYLIGHT	102 9	919477.31	1036117.69	1165.16	DITCH CL - PC	1	9. ALI дг	L EXCAVA DAII Y RAS	IIONS SHA	LL BE TH	IOROUGHLY SECURED AND STA
RAP LINED)	103 9	919466.64	1036115.49	1164.68	DITCH CL - PT	4	CO	NSTRUCT	ION OPER	ATIONS.	
< INSTANCE AND A REALED AND A R	104 9	919379.46	1036169.98	1159.92	DITCH CL - PI	-	10 <u>ዮ</u> ፓ				
THE ATTICE ATTICE AND A CONTRACT OF A DECISION OF A DECISIONO OF	105 9	919361.61	1036160.38	1161.99		-	10. STA	ADILIZE AL ORMWATE		F TO THE	3, AND FUNDS PRIUK TU DIREC M.
		919224.00 919159 10	1036257 09	11/25.00		-	44 -				
29 { X/// \$X \$ /~ }	108 0	919130 13	1036277 87	1141.88	DITCH CL - PI	1	ττ. ΤU ΗΟ	RIZONTAI	JKCEMEN ⁻ _ TO 1-FT V	⊨ IMA I (FF ERTICAI	SIMPLE SEALT STALLED ON ALL SLOPES (3:1) OR STEFPFR AND
	109 9	919110.91	1036281.14	1142.04	DITCH CL - PI	1	AM	IERICAN G	REEN SC2	50 OR AP	PROVED EQUAL.
	110 9	919594.07	1036272.40	1171.29	DITCH CL - BEGINNING	1	12 ⊑^∣	RTH///OP		ΡΔΩΤΙΩΝ	
BOTTOM DITCH	111 9	919488.67	1036363.10	1168.56	DITCH CL - DAYLIGHT	1	RE	COMMEN	DATIONS M	ADE IN T	HE GEOTECHNICAL ENGINEERIN
(TREATMENT C506)	112 9	919467.91	1036367.72	1165.40	DITCH CL - BEGINNING]	BY	OTHERS.			
15 (19) 15 (35) (136) (35) (35) (35) (35) (35) (35) (35) (35	113 9	919412.08	1036302.16	1164.71	DITCH CL - PI]					
8 x 134	114 9	919358.27	1036212.36	1163.90	CATCH BASIN INLET & DITCH CL END						
	115 9	919347.69	1036203.70	1162.15	DITCH CL - BEGINNING	1					
	116 9	919258.97	1036213.84	1152.86	DITCH CL - PT	4					
	117 9	919203.80	1036293.83	1144.43		4					
CHANNEL AT ROAD INTERSECTION	118 9	919185.43	1036337.29	1140.46		-					
	120	919086.64				\mathbf{I}					
	121 0	919588 70	1036092 46	1195.98	BENCH SWALE CL - PI	1				0	30' 60'
	122 9	919553.67	1036051.57	1194.37	BENCH SWALE CL - PC	1					SCALE IN FEET
	123 9	919438.26	1036018.44	1193.10	BENCH SWALE CL - PT	1					FOR PERMITTING
TTHE	124 9	919430.72	1036037.41	1193.00	BENCH SWALE CL - DAYLIGHT	1					PURPOSES ONL
	I										IOT FOR CONSTRUC

- OTES,
- NS.
- FER TO TOP
- TICAL (3:1)
- T AND FILL IS GREEN /ER ALL
- CE COURSE FENCE, AND ICH LAYER NS.
- AL
- ABILIZED ON
- CTING
- LL 3-FT Transmission Business D BE NORTH
- ITH THE ING REPORT

CTION

REVISION: XXX

DES: JJS CHK:RLR DRW: JJS APR: BSS TOWN: OLD CANWAN ROAD, PITTSBURG, RANSMISSION LINE

MILE NO: SHEET 4 OF 19

NPTT104-C10

NSITION STATION GRADING PLAN

PASS

#

- NOTES:
- 1. REFER TO SH
- 2. TOTAL LIMIT

IENT & EI	ROSION CONTROL LEGEND	
-0		
	STONE CHECK DAM CD	
	EROSION CONTROL BLANKET ECB	
000000000000000000000000000000000000000	SILT SOCK SS	
•	SILT FENCE SF	
	STABLIZED CONSTRUCTION ENTRANCE SCE	· · · · · · · · · · · · · · · · · · ·
	STONE OUTLET SEDIMENT TRAP (SST)	· · · · · · · · · · · · · · · · · · ·
HEET NPTT11	0-C500 FOR EROSION AND SEDIMENTATION NOTES. ANCE $-132,385$ SF = 3.04 ACRES.	 · ·<
		THE NOTION STATION STATION STATION STATION STATION STATION SECURITIES IN THE NORTHERN PASS TOMES IN AND SEDIMENTATION THE NORTHERN PASS TOMES IN THE STATION THE STATION THE STATION STATICTION STATICTICUS STATICTION STATICTICUS STATICTICUS STATICTICUS STATICTUS
	PURPOSES ONLY NOT FOR CONSTRUCTION	MILE NO: SHEET 5 OF 19 NPTT105-C102

PLANTING PLAN NOTES:

- 1. REFER TO SHEET NPTT102-G001 FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS, AND LEGENDS.
- 2. THIS DRAWING IS INTENDED TO DESCRIBE LANDSCAPE INFORMATION ONLY.
- 3. ALL DISTURBED AREAS NOT OTHERWISE DEVELOPED SHALL HAVE A MINIMUM OF 4" OF LOAM AND THE FOLLOWING SEED MIXTURE:

NHDOT TYPE 44 (MIN. 80 LBS/ACRE):

- 44% CREEPING RED FESCUE (MIN. 35 LBS/ACRE) 38% PERENNIAL RYEGRASS (MIN. 30 LBS/ACRE)
- 6% REDTOP (MIN. 5 LBS/ACRE)
- 6% ALSIKE CLOVER (MIN. 5 LBS/ACRE)
- 6% BIRDSFOOT TREFOIL (MIN. 5 LBS/ACRE)

ALL SEEDING SHALL BE IN ACCORDANCE WITH THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (2010) SECTION 644 -- GRASS SEED AND THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES STORMWATER MANUAL VOLUME 3 PERMANENT VEGETATION IN SECTION 4.1.

- 4. NO SEEDING SHALL BE PLACED BEFORE ROUGH GRADING HAS BEEN PROPERLY COMPLETED.
- 5. TOPSOIL SHALL BE INSTALLED AT A MINIMUM DEPTH OF 4". CONTRACTOR SHALL SUBMIT SAMPLES FROM EACH PROPOSED TOPSOIL SOURCE TO A CERTIFIED TESTING LABORATORY TO DETERMINE pH, FERTILITY, ORGANIC CONTENT AND MECHANICAL COMPOSITION. CONTRACTOR SHALL SUBMIT THE TEST RESULTS TO OWNER OR LANDSCAPE ARCHITECT FOR REVIEW. CONTRACTOR SHALL INCORPORATE AMENDMENTS FOR PROPER SOIL pH AND PLANT GROWTH AS RECOMMENDED BY TEST REPORTS AT NO INCREASE IN CONTRACT PRICE.
- 6. TEMPORARY AND PERMANENT SEEDING SHALL SHALL BE IN ACCORDANCE WITH THE PLANTING PLAN, NH DES STORMWATER MANUAL VOLUME 3, AND NH DOT STANDARD SPECIFICATIONS SECTION 644.
- 7. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES -- 6 TO 12 INCHES ON COMPACTED SOILS -- PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING.
- 8. PLACING LOAM ON SITE: ALL SUBGRADE ELEVATIONS SHOULD BE UNIFORMLY GRADED TO RECEIVE LOAM AND SHALL BE INSPECTED AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO PLACEMENT OF LOAM. PLACE LOAM TO FORM A MINIMUM DEPTH OF 4" WHEN ROLLED, UNLESS OTHERWISE INDICATED. ALL DEPRESSIONS EXPOSED DURING THE ROLLING SHALL BE FILLED WITH ADDITIONAL LOAM.
- SEED BED PREPARATION: AFTER FINISH GRADING AND JUST BEFORE SEEDING, THE AREAS TO BE SEEDED SHALL BE LOOSENED TO PROVIDE A ROUGH, FIRM BUT FINELY PULVERIZED SEEDBED. THE INTENT IS A TEXTURE CAPABLE OF RETAINING WATER, SEED AND FERTILIZER WHILE REMAINING STABLE AND ALLOWING SEED TIME TO GERMINATE. SEED SHALL BE APPLIED TO THE CONDITIONED SEEDBED NOT MORE THAN 48 HOURS AFTER THE SEEDBED HAS BEEN PREPARED.
- 10. LIME AND FERTILIZER SHALL BE INCORPORATED INTO THE SOIL PRIOR TO OR AT THE TIME OF AT THE TIME OF SEEDING. A MINIMUM OF 2 TONS PER ACRE OF AGRICULTURAL LIMESTONE AND 500 LBS. PER ACRE OF 10-20-20 FERTILIZER SHALL BE APPLIED. SEEDING PRACTICES SHALL COMPLY WITH LOCAL USDA SOIL CONSERVATION SERVICES RECOMMENDATIONS.
- 11. STRAW MULCH OR JUTE MATTING SHALL BE USED WHERE INDICATED ON THE PLANS. A MINIMUM OF 1.5 TONS OF MULCH PER ACRE SHALL BE APPLIED. MULCH SHALL BE ANCHORED IN PLACE WHERE NECESSARY. JUTE MATTING SHALL BE LAID IN THE DIRECTION OF RUNOFF FLOW AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 12. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS AREA NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 15 TO SEPTEMBER 15. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS

PLANTING LEGEND

 $\begin{array}{c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & &$

AREA TO BE SEEDED = 2.0 ACRES

POINT TABLE									
PNT	NORTHING	EASTING	ELEV.	DESCRIPTION					
200	919377.34	1036172.99	1159.92	DRAINLINE A1 - 24" HDPE PIPE INVERT IN					
201	919358.59	1036211.69	1159.49	DRAINLINE A1 - 24" HDPE PIPE INVERT OUT					
202	919357.90	1036213.12	1159.24	DRAINLINE A2 - 24" HDPE PIPE INVERT IN					
203	919341.15	1036247.69	1158.86	DRAINLINE A2 - 24" HDPE PIPE INVERT OUT (FES)					
204	919358.27	1036212.36	1163.90	DRAINLINE A - GRATE FOR CATCH BASIN (TYPE E GF					
205	919111.76	1036285.41	1141.35	DRAINLINE B - 24" HDPE PIPE INVERT IN					
206	919183.12	1036338.59	1140.46	DRAINLINE B - 24" HDPE PIPE INVERT OUT (FES)					
207	919344.64	1036353.85	1155.50	POND OUTLET PIPE - 18" HDPE PIPE INVERT IN					
208	919324.44	1036368.58	1155.25	POND OUTLET PIPE - 18" HDPE PIPE INVERT OUT (FE					
209	919346.40	1036352.57	1160.77	POND OUTLET STRUCTURE - GRATE ELEVATION					
300	919589.18	1036268.00	1170.12	6" UNDERDRAIN INVERT - PI					
301	919535.62	1036202.00	1169.27	6" UNDERDRAIN INVERT - PI					
302	919471.99	1036123.56	1164.55	6" UNDERDRAIN INVERT - PI (INSTALL CLEANOUT)					
303	919403.89	1036178.81	1163.67						
304	919374.28	1036354 31	1162.08						
306	919429.23	1036288.32	1167.89	6" UNDERDRAIN INVERT - GRADE BREAK					
307	919361.74	1036205.18	1162.86	6" UNDERDRAIN INVERT - OUTLET					
308	919587.94	1036093.11	1193.64	6" UNDERDRAIN INVERT - BEGIN					
309	919553.04	1036052.38	1191.96	6" UNDERDRAIN INVERT - PC					
310	919439.01	1036019.26	1190.70	6" UNDERDRAIN INVERT - PT					
311	919427.61	1036047.95	1190.38	6" UNDERDRAIN INVERT - OUTLET					
400	919380.42	1036323.18	1155.61	BOTTOM OF DETENTION POND - PT					
401	919364.67	1036303.76	1155.61	BOTTOM OF DETENTION POND - PC					
402	919339.82	1036323.92	1155.61	BOTTOM OF DETENTION POND - PT					
403	919355.57	1036343.34	1155.61	BOTTOM OF DETENTION POND - PC					
404	919330.87	1036271.60	1156.86	BOTTOM OF SEDIMENT FOREBAY - PI					
405	919339.59	1036253.60	1156.86	BOTTOM OF SEDIMENT FOREBAY - PI					
407	919319.17	1036265.93	1156.86	BOTTOM OF SEDIMENT FOREBAY - PI					
408	919311.44	1036267.57	1159.36	TOP OF SEDIMENT FOREBAY SLOPE - PC					
409	919315.00	1036272.24	1159.36	TOP OF SEDIMENT FOREBAY SLOPE - PT					
410	919327.97	1036278.52	1159.36	TOP OF WEIR - PI					
411	919333.78	1036293.63	1159.36	TOP OF WEIR - PI					
412	919325.45	1036318.83	1159.36	TOP OF WET POOL SLOPE - PC					
413	919373.40	1036296.67	1159.36	TOP OF WET POOL SLOPE - PC					
414	919344.43	1036287.74	1159.36	TOP OF WEIR - PI					
415	919337.52	1036275.07	1159.36						
416	919346.77	1036255.97	1159.36						
417	919340.57	1036275 11	1158.86	BOTTOM OF WEIR SLOPE - PI					
419	919329.15	1036277.43	1158.86	BOTTOM OF WEIR SLOPE - PI					
420	919343.36	1036290.48	1158.61	BOTTOM OF WEIR SLOPE - PI					
421	919336.49	1036294.43	1158.61	BOTTOM OF WEIR SLOPE - PI					
422	919323.22	1036331.99	1161.60	BOTTOM OF SPILLWAY SLOPE - PI					
423	919321.61	1036347.46	1161.60	BOTTOM OF SPILLWAY SLOPE - PI					
424	919314.68	1036338.92	1161.60	BOTTOM OF SPILLWAY SLOPE - PI					
425	919330.15	1036340.53	1161.60	BOTTOM OF SPILLWAY SLOPE - PI					
426	919325.05	1036348.53	1162.60	TOP OF SPILLWAY SLOPE / BERM - PI					
427	919329.71	1036344.75	1162.60	TOP OF SPILLWAY SLOPE / BERM - PI					
428 720	919319.00	1036331.55	1162.60	TOP OF SPILLWAY SLOPE / BERM - PI					
430	919339 28	1036356 55	1162.60						
431	919334.63	1036360.33	1162.60	TOP OF BERM - PT					
432	919317.74	1036329.99	1162.60	TOP OF BERM - PC					
433	919312.92	1036333.58	1162.60	TOP OF BERM - PC					
434	919310.10	1036313.45	1162.60	TOP OF BERM - PT					
435	919304.24	1036314.80	1162.60	TOP OF BERM - PT					
436	919301.89	1036269.36	1162.60	TOP OF BERM - PC					
437	919295.99	1036270.46	1162.60	TOP OF BERM - PC					
438	919306.39	1036252.82	1162.60	TOP OF BERM - PT					
439	919326.68	1036216.34	1167.23	GRADE BREAK AT TOP OF POND SLOPE					
440	919354.49	1036226.98	1167.01	GRADE BREAK AT TOP OF POND SLOPE					
441	919390 25	1036281 82	1166 73	GRADE BREAK AT TOP OF POND SLOPE					
443	919417.72	1036318.94	1167.27	GRADE BREAK AT TOP OF POND SLOPE					
444	919413.13	1036348.40	1166.00	TOP OF POND SLOPE (MATCH EXISTING)					
445	919394.33	1036359.21	1162.60	TOP OF BERM (MATCH EXISTING)					
446	919399.68	1036362.28	1162.60	TOP OF BERM (MATCH EXISTING)					
			l						

	STOP	RMWATER SYSTEM PLAN NOTES:	
	1.	REFER TO SHEET NPTT102-G001 FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS, AND LEGENDS.	
	2.	THIS DRAWING IS INTENDED TO DESCRIBE THE STORMWATER SYSTEM ONLY.	
TE)	3.	NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM HORIZONTAL DATUM - NAD83 VERTICAL DATUM - NAVD88	
)	4.	STORM DRAINAGE SYSTEM CONNECTIONS, MATERIALS, AND METHODS SHALL BE IN ACCORDANCE WITH THE NH DOT STANDARDS AND NH DOT SPECIFICATION SECTIONS 603 AND 604, AS WELL AS OTHER APPLICABLE INDUSTRY CODES AND GOVERNING AGENCY REQUIREMENTS.	
	5.	THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE ELEVATION AND LOCATION OF ALL UTILITIES BY VARIOUS MEANS PRIOR TO BEGINNING ANY EXCAVATION. TEST PITS SHALL BE DUG AT ALL LOCATIONS WHERE PROPOSED STORM PIPING WILL CROSS EXISTING UTILITIES, AND THE HORIZONTAL AND VERTICAL LOCATIONS OF THE UTILITIES SHALL BE DETERMINED. THE CONTRACTOR SHALL CONTACT THE ENGINEER IN THE EVENT OF ANY DISCOVERED OR UNFORESEEN CONFLICTS BETWEEN EXISTING AND PROPOSED SANITARY SEWERS, STORM PIPING AND UTILITIES SO THAT AN APPROPRIATE MODIFICATION MAY BE MADE.	· · · · · · · · · · · · · · · · · · ·
	6.	MANHOLE RIMS AND CATCH BASIN GRATES SHALL BE SET TO ELEVATIONS SHOWN. SET ALL EXISTING MANHOLE RIMS, GRATES AND OTHER UTILITY TOPS TO BE RAISED OR LOWERED FLUSH WITH FINAL GRADE AS NECESSARY.	
	7.	THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE WITH APPLICABLE REGULATORY AGENCIES FOR STORM DRAINAGE INSTALLATIONS AND CONNECTIONS.	ITTING ITTING
	8.	THE CONTRACTOR SHALL COORDINATE WORK TO BE PERFORMED BY THE VARIOUS UTILITY PROVIDERS AND SHALL PAY ALL FEES FOR CONNECTIONS, DISCONNECTIONS, RELOCATIONS, INSPECTIONS, AND DEMOLITION UNLESS OTHERWISE STATED IN THE PROJECT SPECIFICATIONS MANUAL AND/OR GENERAL CONDITIONS OF THE CONTRACT.	· · · · · · · · · · · · · · · · · · ·
	9.	ALL PIPES SHALL BE LAID ON STRAIGHT ALIGNMENTS AND EVEN GRADES USING A PIPE LASER OR OTHER ACCURATE METHOD.	504
	10.	ALL UTILITY CONSTRUCTION IS SUBJECT TO INSPECTION FOR APPROVAL PRIOR TO BACKFILLING, IN ACCORDANCE WITH THE APPROPRIATE OWNER, UTILITY PROVIDER, AND APPLICABLE REGULATORY AGENCY REQUIREMENTS.	AVE NFO
	11.	A ONE-FOOT MINIMUM VERTICAL CLEARANCE BETWEEN ELECTRICAL AND TELEPHONE LINES TO STORM PIPING SHALL BE PROVIDED.	
	12.	SITE CONTRACTOR SHALL PROVIDE ALL BENDS, FITTINGS, ADAPTERS, ETC., AS REQUIRED FOR PIPE CONNECTIONS.	ERN PASS
	13.	THE CONTRACTOR SHALL MAINTAIN ALL FLOWS AND UTILITY CONNECTIONS WITHOUT INTERRUPTION UNLESS/UNTIL AUTHORIZED BY THE OWNER, THE ENGINEER, UTILITY PROVIDERS AND GOVERNING AUTHORITIES.	
	14.	STORM DRAINAGE SHALL BE RATED FOR HS-20 LOADING.	Business #
	15.	PROVIDE MINIMUM 1% SLOPE ON ALL UNDERDRAINS. ADDITIONAL UNDERDRAINS MAY BE REQUIRED AS DEEMED NECESSARY BY THE OWNER, GEOTECHNICAL ENGINEER AND/OR ENGINEER BASED ON FINDINGS AFTER EARTHWORK AND EXCAVATION OPERATIONS COMMENCE. PROVIDE UNDERDRAIN CLEANOUTS AT A MINIMUM OF EVERY 200' OF PIPE OR ONE CLEANOUT PER PIPE RUN WHERE THE PIPE RUN IS LESS THAN 200'.	I STATION #1 SYSTEM PLAN date: 10/1/2015
		0 30' 60' SCALE IN FEET	NOILISNATER DES: JJS CHK:RLR DRW: JJS APR: BSS TOWN: OD CAWAN ROAD, PITSBURG, NH
		FOR PERMITTING	TRANSMISSION LINE:
		PURPOSES ONLY	MILE NO: SHEET 7 OF 19
		NOT FOR CONSTRUCTION	NPTT107-C104

REVISION: XXX

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ENGTH (FT.)	В	D	SI SLC Z1	DE DPE Z2	RIPRAP GRADATION	t (IN.)		UNDERLAYMENT THICKNESS (IN.)	
306	2'	1.5'	3	3	(d50 = 12"	<u> </u>	GRAVEL	6	
310	2'	1.5'	3	3	d50 = 12"	36	GRAVEL	6	
80	2'	0	0	0	d50 = 6"	18	GRAVEL	6	
36	2'	1	3	3	d50 = 6"	18	GRAVEL	6	

NOTES:

- 1. THE SUBGRADE FOR GEOTEXTILE FABRIC AND RIP-RAP SHALL BE PREPARED TO THE LINES AND GRADES SHOWN.
- 2. THE ROCK USED FOR RIP-RAP SHALL CONFORM TO NHDOT CLASS C STONE.
- 3. GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK RIP-RAP. DAMAGED AREAS IN THE FABRIC SHALL BE PREPARED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.
- STONE FOR THE RIP-RAP MAY BE PLACED BY EQUIPMENT 4 AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE STONE SIZES.

		RIP	RAP	APRON			
OUTLET NO.	PIPE DIA Pd (IN)	SIZE (D50)	THICK. Rt (IN)	LENGTH AI (FT)	INITIAL WIDTH Aiw (FT)	TERMINAL WIDTH Atw (FT)	
Α	24	6	18	28	6	17	
В	24	9	27	21	10	27	
С	18	6	18	18	4.5	22	

				•		•	•	•		
ANSIIION SIAIION # I		ra E		•		•		•		
NCTDIICTION DETAIL						•	•			
		Image Image Image		•						
				2 REISSUE	ED FOR PERMITTING	1/13/17	SUK	RLR	RLR	
	#			1 ISSUED	FOR PERMITTING	10/1/15	SN	RLR	BSS	
DATE: 10/1/2015			SEAL	NO.	REVISION	DATE	DRWN	CHKD	APPRV.	

THE NORTHERN	>
Transmissio Business	on
#	
transition station #1 construction details	
DES: JJS CHK:R	LR
TOWN: OLD CANNAN ROAD, PITTSBUR	G, N
TRANSMISSION LI	NE
MILE NO:	
SHEET 16 OF 1	9
NPTT116-C5	06

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<u> </u>	

4" MIN. LOAM OR TOPSOIL AND SEED WITH EROSION CONTROL AND REVEGETATION MAT (ECRM) (EXCELSIOR, JUTE, MIRIMAT, OR EQUAL) OR SOD

1. CHANNEL DIMENSIONS ARE FOR THE COMPLETED CHANNEL FINISH SURFACE GRADE.

3. INSTALL LINING PER MANUFACTURES SPECIFICATIONS AND RECOMMENDATIONS. SEED

OTHER PROJECTIONS THAT WILL IMPEDE NORMAL CHANNEL FLOW AND/OR PREVENT GOOD LINING TO SOIL CONTACT. THE CHANNEL SHALL BE INITIALLY OVER-EXCAVATED TO ALLOW

5. ALL CHANNELS MUST BE KEPT FREE OF OBSTRUCTIONS SUCH AS FILL GROUND, FALLEN LEAVES AND WOODY DEBRIS, ACCUMULATED SEDIMENT, AND CONSTRUCTION MATERIALS/WASTES. CHANNELS SHOULD BE KEPT MOWED AND/OR FREE OF ALL WEEDY, BRUSHY OR WOODY GROWTH. ANY UNDERGROUND UTILITIES RUNNING ACROSS/THROUGH THE CHANNEL(S) SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL(S) REPAIRED AND STABILIZED PER THE CHANNEL CROSS-SECTION DETAIL. DAMAGED LINING SHALL BE

	D	SIDE SLOPE Z ₁ Z ₂		LINING	STAPL PATTEF	E RN	SLOPE (%)
	1.5'	3	3	SC-250	Ē	y 2\	0.8
	1.5'	3	3	SC-250	E)	8.7
	1.5'	3	3	SC-250	E	Ś	2.0
)	1.5'	3	3	SC-250	E <)	0.2
	1.5'	3	3	(SC-250	E,)	0.7

C104

GRASS SWALE CROSS SECTION 6 C101

FOR PERMITTING PURPOSES ONLY NOT FOR CONSTRUCTION

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MANHOLE FRAME AND COVER DESIGNED TO HS-20 LOADINGS.

- 2. NO LOAD SHALL BE TRANSFERRED FROM MANHOLE FRAME AND COVER TO 4" PVC UNDERDRAIN **CLEANOUT OR 6" COLLECTION**
- 3. STANDARD MANUFACTURER FITTINGS SHALL BE USED TO CONNECT VERTICAL UNDERDRAINS TO 6" PVC UNDERDRAINS AND
- 4. ALL UNDERDRAIN CLEANOUT AND COLLECTION STRUCTURE COVERS SHALL BE BOLT DOWN TYPE.
- INVERTS FROM OPPOSITE DIRECTIONS MAY NOT BE AT THE SAME ELEVATIONS AS SHOWN IN DETAIL REFER TO THE PLANS FOR

UNDERDRAIN CLEANOUT NOT TO SCALE

PLANTING PLAN NOTES:

- 2. THIS DRAWING IS INTENDED TO DESCRIBE LANDSCAPE INFORMATION ONLY.
- FOLLOWING SEED MIXTURE:
 - NHDOT TYPE 44 (MIN. 80 LBS/ACRE): 44% CREEPING RED FESCUE (MIN. 35 LBS/ACRE) 38% PERENNIAL RYEGRASS (MIN. 30 LBS/ACRE) 6% REDTOP (MIN. 5 LBS/ACRE) 6% ALSIKE CLOVER (MIN. 5 LBS/ACRE) 6% BIRDSFOOT TREFOIL (MIN. 5 LBS/ACRE)

- 9. HOURS AFTER THE SEEDBED HAS BEEN PREPARED.
- SERVICES RECOMMENDATIONS.
- MANUFACTURER'S INSTRUCTIONS.

PLANTING LEGEND

AREA TO BE SEEDED = 0.24 ACRES

1. REFER TO SHEET NPTT802-G001 FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS, AND LEGENDS.

3. ALL DISTURBED AREAS NOT OTHERWISE DEVELOPED SHALL HAVE A MINIMUM OF 4" OF LOAM AND THE

ALL SEEDING SHALL BE IN ACCORDANCE WITH THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (2010) SECTION 644 -- GRASS SEED AND THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES STORMWATER MANUAL VOLUME 3 PERMANENT VEGETATION IN SECTION 4.1.

4. NO SEEDING SHALL BE PLACED BEFORE ROUGH GRADING HAS BEEN PROPERLY COMPLETED.

5. TOPSOIL SHALL BE INSTALLED AT A MINIMUM DEPTH OF 4". CONTRACTOR SHALL SUBMIT SAMPLES FROM EACH PROPOSED TOPSOIL SOURCE TO A CERTIFIED TESTING LABORATORY TO DETERMINE pH, FERTILITY, ORGANIC CONTENT AND MECHANICAL COMPOSITION. CONTRACTOR SHALL SUBMIT THE TEST RESULTS TO OWNER OR LANDSCAPE ARCHITECT FOR REVIEW. CONTRACTOR SHALL INCORPORATE AMENDMENTS FOR PROPER SOIL pH AND PLANT GROWTH AS RECOMMENDED BY TEST REPORTS AT NO INCREASE IN CONTRACT PRICE.

6. TEMPORARY AND PERMANENT SEEDING SHALL SHALL BE IN ACCORDANCE WITH THE PLANTING PLAN, NH DES STORMWATER MANUAL VOLUME 3, AND NH DOT STANDARD SPECIFICATIONS SECTION 644.

7. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES -- 6 TO 12 INCHES ON COMPACTED SOILS -- PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING.

8. PLACING LOAM ON SITE: ALL SUBGRADE ELEVATIONS SHOULD BE UNIFORMLY GRADED TO RECEIVE LOAM AND SHALL BE INSPECTED AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO PLACEMENT OF LOAM. PLACE LOAM TO FORM A MINIMUM DEPTH OF 4" WHEN ROLLED, UNLESS OTHERWISE INDICATED. ALL DEPRESSIONS EXPOSED DURING THE ROLLING SHALL BE FILLED WITH ADDITIONAL LOAM.

SEED BED PREPARATION: AFTER FINISH GRADING AND JUST BEFORE SEEDING, THE AREAS TO BE SEEDED SHALL BE LOOSENED TO PROVIDE A ROUGH, FIRM BUT FINELY PULVERIZED SEEDBED. THE INTENT IS A TEXTURE CAPABLE OF RETAINING WATER, SEED AND FERTILIZER WHILE REMAINING STABLE AND ALLOWING SEED TIME TO GERMINATE. SEED SHALL BE APPLIED TO THE CONDITIONED SEEDBED NOT MORE THAN 48

10. LIME AND FERTILIZER SHALL BE INCORPORATED INTO THE SOIL PRIOR TO OR AT THE TIME OF AT THE TIME OF SEEDING. A MINIMUM OF 2 TONS PER ACRE OF AGRICULTURAL LIMESTONE AND 500 LBS. PER ACRE OF 10-20-20 FERTILIZER SHALL BE APPLIED. SEEDING PRACTICES SHALL COMPLY WITH LOCAL USDA SOIL CONSERVATION

11. STRAW MULCH OR JUTE MATTING SHALL BE USED WHERE INDICATED ON THE PLANS. A MINIMUM OF 1.5 TONS OF MULCH PER ACRE SHALL BE APPLIED. MULCH SHALL BE ANCHORED IN PLACE WHERE NECESSARY. JUTE MATTING SHALL BE LAID IN THE DIRECTION OF RUNOFF FLOW AND APPLIED IN ACCORDANCE WITH

12. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS AREA NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 15 TO SEPTEMBER 15. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS.

SEEDING & MULCHING

FOR PERMITTING
PURPOSES ONLY
NOT FOR CONSTRUCTION

SCALE IN FEET

REVISION: XXX

ILE NO: SHEET 6 OF 18 NPTT806-C10

	PIPE AND UN	DERDRAIN S	CHEDULE			
PIPE #	LENGTH (FT)	SLOPE	SIZE			
P1 8		0.025	12" HDPE			
P2	5	0.040	2" PVC			
P3	17	0.044	12" HDPE			
P4	13	0.046	8" PVC			
P5	6	0.025	12" HDPE			
P6	22	0.050	12" RCP			
P7	6	0.050	12" RCP			

STORMWATER SYSTEM PLAN NOTES:

- 1. REFER TO SHEET NPTT802-G001 FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS, AND LEGENDS.
- 2. THIS DRAWING IS INTENDED TO DESCRIBE THE STORMWATER SYSTEM ONLY.
- 3. NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM HORIZONTAL DATUM - NAD83 VERTICAL DATUM - NAVD88
- 4. STORM DRAINAGE SYSTEM CONNECTIONS, MATERIALS, AND METHODS SHALL BE IN ACCORDANCE WITH THE NH DOT STANDARDS AND NH DOT SPECIFICATION SECTIONS 603 AND 604, AS WELL AS OTHER APPLICABLE INDUSTRY CODES AND GOVERNING AGENCY REQUIREMENTS.
- 5. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE ELEVATION AND LOCATION OF ALL UTILITIES BY VARIOUS MEANS PRIOR TO BEGINNING ANY EXCAVATION. TEST PITS SHALL BE DUG AT ALL LOCATIONS WHERE PROPOSED STORM PIPING WILL CROSS EXISTING UTILITIES, AND THE HORIZONTAL AND VERTICAL LOCATIONS OF THE UTILITIES SHALL BE DETERMINED. THE CONTRACTOR SHALL CONTACT THE ENGINEER IN THE EVENT OF ANY DISCOVERED OR UNFORESEEN CONFLICTS BETWEEN EXISTING AND PROPOSED SANITARY SEWERS, STORM PIPING AND UTILITIES SO THAT AN APPROPRIATE MODIFICATION MAY BE MADE.
- 6. MANHOLE RIMS AND CATCH BASIN GRATES SHALL BE SET TO ELEVATIONS SHOWN. SET ALL EXISTING MANHOLE RIMS, GRATES AND OTHER UTILITY TOPS TO BE RAISED OR LOWERED FLUSH WITH FINAL GRADE AS NECESSARY.
- 7. THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE WITH APPLICABLE REGULATORY AGENCIES FOR STORM DRAINAGE INSTALLATIONS AND CONNECTIONS.
- 8. THE CONTRACTOR SHALL COORDINATE WORK TO BE PERFORMED BY THE VARIOUS UTILITY PROVIDERS AND SHALL PAY ALL FEES FOR CONNECTIONS, DISCONNECTIONS, RELOCATIONS, INSPECTIONS, AND DEMOLITION UNLESS OTHERWISE STATED IN THE PROJECT SPECIFICATIONS MANUAL AND/OR GENERAL CONDITIONS OF THE CONTRACT.
- 9. ALL PIPES SHALL BE LAID ON STRAIGHT ALIGNMENTS AND EVEN GRADES USING A PIPE LASER OR OTHER ACCURATE METHOD.
- 10. ALL UTILITY CONSTRUCTION IS SUBJECT TO INSPECTION FOR APPROVAL PRIOR TO BACKFILLING, IN ACCORDANCE WITH THE APPROPRIATE OWNER, UTILITY PROVIDER, AND APPLICABLE **REGULATORY AGENCY REQUIREMENTS.**
- 11. A ONE-FOOT MINIMUM VERTICAL CLEARANCE BETWEEN ELECTRICAL AND TELEPHONE LINES TO STORM PIPING SHALL BE PROVIDED.
- 12. SITE CONTRACTOR SHALL PROVIDE ALL BENDS, FITTINGS, ADAPTERS, ETC., AS REQUIRED FOR PIPE CONNECTIONS.
- 13. THE CONTRACTOR SHALL MAINTAIN ALL FLOWS AND UTILITY CONNECTIONS WITHOUT INTERRUPTION UNLESS/UNTIL AUTHORIZED BY THE OWNER, THE ENGINEER, UTILITY PROVIDERS AND GOVERNING AUTHORITIES.
- 14. STORM DRAINAGE SHALL BE RATED FOR HS-20 LOADING.
- 15. UNDERDRAINS MAY BE REQUIRED AS DEEMED NECESSARY BY THE OWNER, GEOTECHNICAL ENGINEER AND/OR ENGINEER BASED ON FINDINGS AFTER EARTHWORK AND EXCAVATION OPERATIONS COMMENCE. PROVIDE MINIMUM 0.5% SLOPE ON ALL UNDERDRAINS. ADDITIONALLY PROVIDE UNDERDRAIN CLEANOUTS AT A MINIMUM OF EVERY 200' OF PIPE OR ONE CLEANOUT PER PIPE RUN WHERE THE PIPE RUN IS LESS THAN 200'.

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0	10' SCALE	20' 4	40' _	NORTH

PURPOSES ONLY

NOT FOR CONSTRUCTION

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NOTES:

- 1. DESIGN OF END SECTION SHALL CONFORM TO STANDARD REINFORCED CONCRETE PIPE.
- 2. CUT OFF WALL TO BE POURED IN FIELD, IF NECESSARY, AS DIRECTED BY THE ENGINEER.
- 3. PAYMENT FOR THE CUT OFF WALL WILL BE MADE UNDER THE APPROPRIATE CONTRACT ITEMS.
- 4. PROVIDE ANIMAL BARRIER ON OUTLET. BARRIER SHALL NOT RESTRICT STORMWATER FLOW.

ITEM NO.	PIPE DIA.	APPROX. SLOPE X to Y	A	В	С	D	R	Т
603.30112	12"	3 TO 1	4"	24"	48 7/8"	24"	9"	2"

FOR PERMITTING	
PURPOSES ONLY	
NOT FOR CONSTRUCTION	
	_

					BARREL	
				INLET		
			DIA	ELEV		
BASIN	Z1	Z2	Bd	BIE		
NO.	(FT)	(FT)	(IN)	(FT)	MAT'L	
DB-1	3:1	3:1(*)	12"	1076.00	RCP	
		(1)				

SITE PLAN NOTES:

- 1. REFER TO SHEET NPTT802-G001 FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS, AND LEGENDS.
- 2. THE STATION ELECTRICAL EQUIPMENT, ENCLOSURES, FOUNDATIONS, OTHER STATION APPURTENANCES, OVERHEAD TRANSMISSION, AND UNDERGROUND TRANSMISSION ARE SHOWN FOR REFERENCE ONLY.
- 3. THIS DRAWING IS INTENDED TO DEPICT SITE LAYOUT ONLY.
- 4. CONTRACTOR SHALL TAKE PRECAUTIONS TO ENSURE NO DISTURBANCE BEYOND DEPICTED LIMIT OF NPDES/LIMIT OF DISTURBANCE.
- 5. NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM HORIZONTAL DATUM - NAD83 VERTICAL DATUM - NAVD88
- UPON COMPLETION OF SITE CLEARING, THE CONTRACTOR SHALL FURNISH AND INSTALL PERMANENT BENCHMARKS IN THE LOCATIONS DEPICTED ON THE PLANS IN ACCORDANCE WITH THE STATE OF NEW HAMPSHIRE SURVEYING CODES AND STANDARDS. BENCHMARK ELEVATIONS SHALL BE SET IN FIELD AND VERIFIED PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL INSTALL GUIDERAIL SYSTEMS AS DEPICTED IN ACCORDANCE WITH NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND STANDARD PLANS FOR THRIE BEAM SINGLE FACED GUIDERAIL WITH STEEL POSTS AND TERMINAL UNIT TYPE G-2. THIS END SECTION IS NOT CRASH WORTHY. IT IS INTENDED FOR USE PRIMARILY ON LOW SPEED ACCESS ROADS WHERE IT CAN NOT BE HIT.
- 8. OFFSITE ROADWAY (TOWN AND/OR STATE) IMPROVEMENTS AS A RESULT OF THE STATION DEVELOPMENT ARE NOT ANTICIPATED.
- 9. CONTRACTOR SHALL PROVIDE SIGNED AND SEALED DRAWINGS AND DESIGN CALCULATIONS BY A LICENSED ENGINEER IN THE STATE OF NEW HAMPSHIRE PRIOR TO START OF CONSTRUCTION.

LAYO	UT POINT TA	BLE
NORTHING	EASTING	DESCRIPTION
649623.57	968717.70	PAD CORNER
649752.93	968756.33	WALL/PAD CORNER
649729.46	968834.91	WALL CORNER
649701.39	968928.93	WALL/PAD CORNER
649619.42	968904.45	PAD CORNER
649586.13	968878.12	PAD CORNER
649573.19	968874.87	COR PAD/DRIVE
649559.81	968871.51	DRIVE PC
649532.99	968888.06	DRIVE AT ROAD
649558.84	968783.89	DRIVE AT ROAD
649585.29	968826.67	DRIVE CORNER
649594.84	968794.70	PAD CORNER
649600.11	968796.28	PAD CORNER
649592.77	968792.48	35' RAD PT
649554.46	968892.85	22' RAD PT
649561.77	968887.23	WALL END
649656.32	968727.48	WALL END
649625.59	968721.44	FENCE CORNER
649749.19	968758.36	FENCE CORNER
649727.45	968831.17	FENCE CORNER
649603.84	968794.26	FENCE CORNER
649723.61	968830.03	PED GATE
649703.96	968824.16	GATE
649622.99	968799.98	GATE

POINT #

100

101

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NORTH

SCALE IN FEET

SHEET 3 OF 18

NPTT803-C100

	Grading Layout Point Table					
2	Point #	Northing	Easting	Elevation	Raw Description	
	100	649733.77	968827.48	1076.00	BSLOPE	
	101	649740.47	968829.48	1076.00	BSLOPE	
	102	649743.84	968835.70	1076.00	BSLOPE	
	103	649726.13	968895.01	1076.00	BSLOPE	
	104	649723.64	968896.35	1076.00	BSLOPE	
	105	649714.06	968893.49	1076.00	BSLOPE	
	106	649713.20	968896.36	1077.00	BSLOPE	
	{ 107	649722.78	968899.22	1077.00	BSLOPE	
	{ 108	649729.00	968895.86	1077.00	BSLOPE	
	(109	649734.63	968824.60	1077.00	BSLOPE	
	110	649706.37	968919.23	1080.00	TSLOPE	
	111	649715.95	968922.09	1080.00	TSLOPE	
	112	649733.37	968912.68	1080.00	TSLOPE	
	113	649755.73	968837.54	1080.00	TSLOPE	
	114	649743.91	968817.98	1080.00	TSLOPE	

GRADING PLAN NOTES:

- 1. REFER TO SHEET NPTT802-G001 FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS, AND LEGENDS.
- 2. REFER TO SHEET NPTT803-C100 FOR LOCATIONS OF WALL, PAD AND DRIVEWAY.
- 3. REFER TO SHEET NPTT808-C300 FOR GRADING CROSS SECTIONS.
- 4. NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM HORIZONTAL DATUM - NAD83 VERTICAL DATUM - NAVD88
- OF FINISH SURFACE.
- UNLESS NOTED OTHERWISE.
- 7. CONTRACTOR SHALL PLACE 4" TOPSOIL AND SEED ON ALL CUT AND FILL SLOPES AS SPECIFIED UNLESS ANOTHER SURFACE MATERIAL IS INDICATED. EROSION CONTROL BLANKETS (NORTH AMERICAN GREEN SC250 OR ENGINEER APPROVED EQUAL) SHALL BE PLACED OVER ALL SEEDED SIDE SLOPES.
- 8. AFTER COMPLETION OF YARD SUBGRADE WORK, THE SURFACE COURSE OF CRUSHED BASALT (ANGULAR STONE) STONE MEETING THE GRADATION REQUIREMENTS EXPLAINED IN THE SPECIFICATIONS.
- 9. CONTRACTOR SHALL PROTECT/REPAIR ALL SLOPES UNTIL FINAL VEGETATIVE OR STONE STABILIZATION.
- 10. ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED AND STABILIZED ON A DAILY BASIS BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION OPERATIONS.
- 11. STABILIZE ALL DITCHES, SWALES, AND PONDS PRIOR TO DIRECTING STORMWATER RUNOFF TO THEM.
- 12. TURF REINFORCEMENT MAT (TRM) SHALL BE INSTALLED ON ALL 3-FT AMERICAN GREEN SC250 OR APPROVED EQUAL.
- 13. EARTHWORK AND COMPACTION SHALL BE IN ACCORDANCE WITH THE BY OTHERS.

Grading Layout Point Table								
Point #	Northing	Easting	Elevation	Raw Description				
115	649745.63	968812.23	1080.00	TSLOPE				
116	649761.48	968839.34	1080.00	TSLOPE				
117	649739.12	968914.40	1080.00	TSLOPE				
118	649704.65	968924.98	1080.00	TSLOPE				
119	649714.23	968927.84	1080.00	TSLOPE				
120	649729.27	968933.30	1079.50	LOW POINT				
121	649737.20	968815.98	1080.00	TSLOPE				
122	649738.92	968810.23	1080.00	TSLOPE				
123	649758.44	968839.54	1080.00	CL SPILLWAY				
124	649756.63	968845.27	1080.00	CL SPILLWAY				
125	649766.12	968844.97	1077.00	CL SPILLWAY				
126	649752.17	968791.19	1078.00	TSLOPE				
127	649764.88	968813.62	0.00	BSLOPE				
128	649768.56	968843.76	1076.00	BSLOPE				

5. PROPOSED CONTOURS AND SPOT ELEVATIONS INDICATED REFER TO TOP

6. ALL FILL AND CUT SLOPES ARE 3-FT HORIZONTAL TO 1-FT VERTICAL (3:1)

FOR THE SUBSTATION (INSIDE THE FENCE, 3-FT OUTSIDE THE FENCE, AND WHERE INDICATED ON THE PLANS) SHALL CONSISTS OF A 4-INCH LAYER

HORIZONTAL TO 1-FT VERTICAL SLOPES (3:1) OR STEEPER, AND BE NORTH

RECOMMENDATIONS MADE IN THE GEOTECHNICAL ENGINEERING REPORT

NOT FOR CONSTRUCTION

NORTH

SCALE IN FEET

FOR PERMITTING

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SEDIMENT & EROSION CONTROL LEGEND

NOTES:

1. REFER TO SHEET NPTT809-C500 FOR EROSION AND SEDIMENTATION NOTES.

2. TOTAL LIMIT OF DISTURBANCE - 38,518 SF = 0.884 ACRES.

