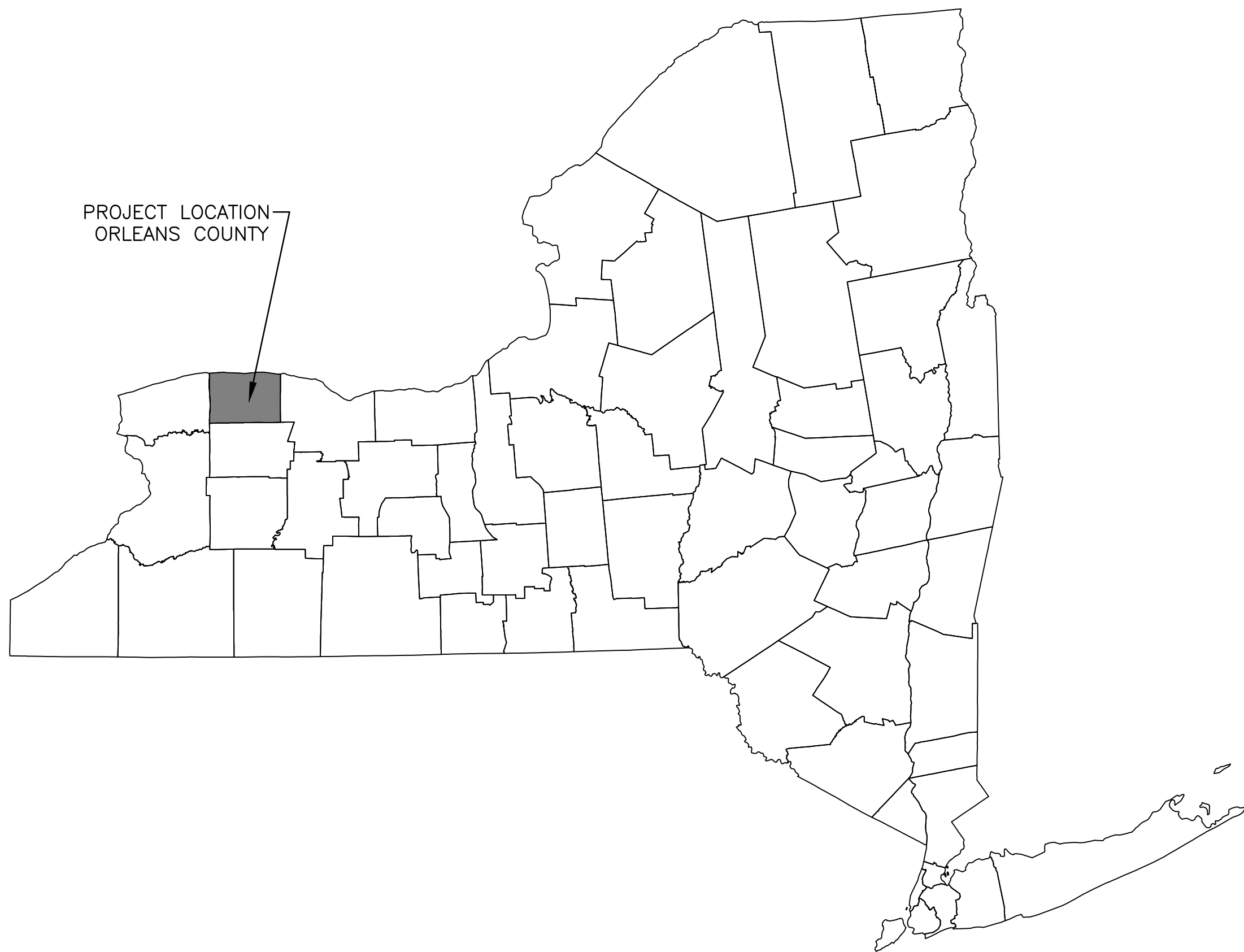


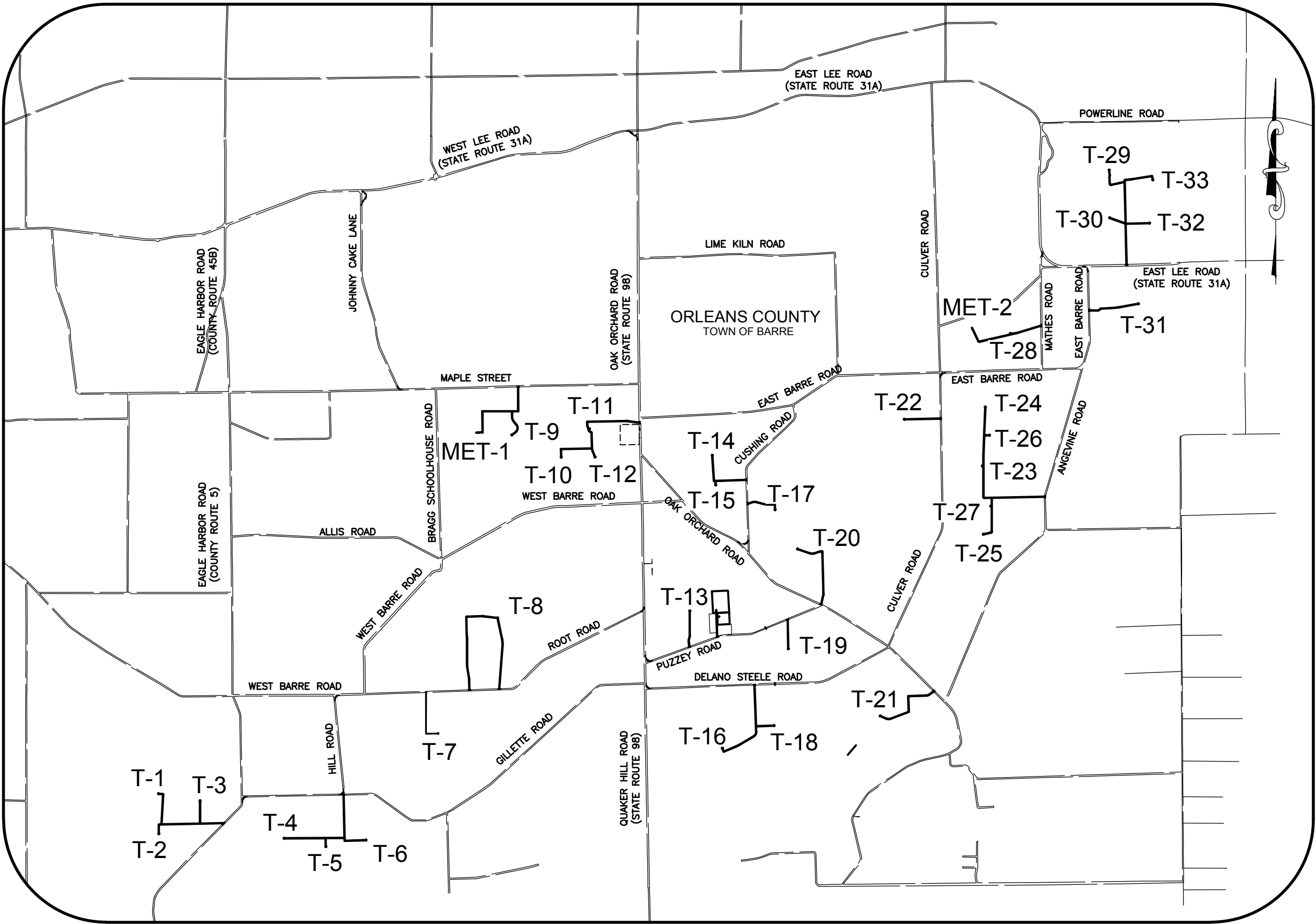
HERITAGE WIND PROJECT

PRELIMINARY PLANS

TOWN OF BARRE ORLEANS COUNTY, NEW YORK




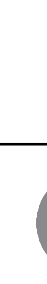
NEW YORK STATE MAP
N.T.S.

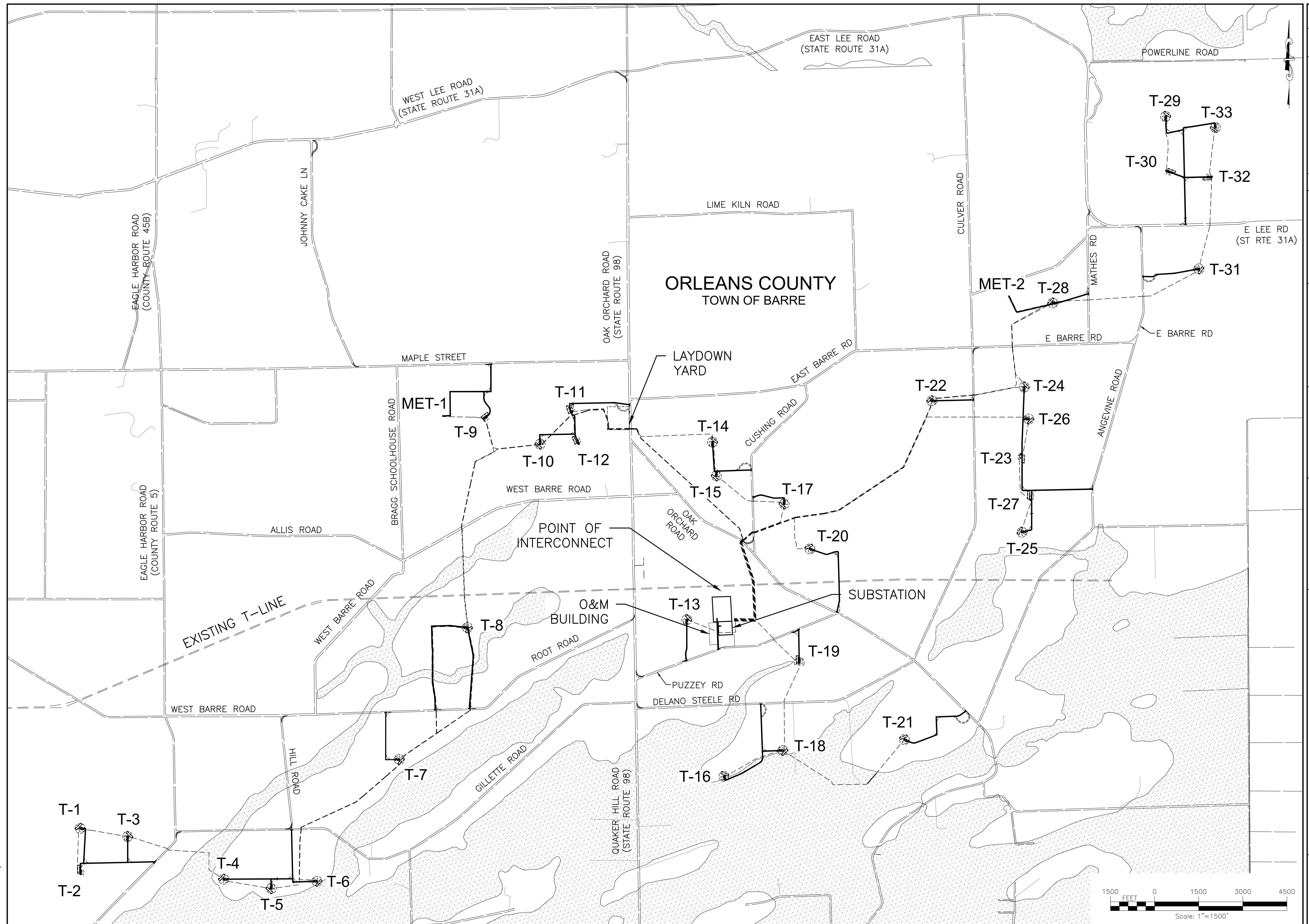


LOCATION MAP
N.T.S.

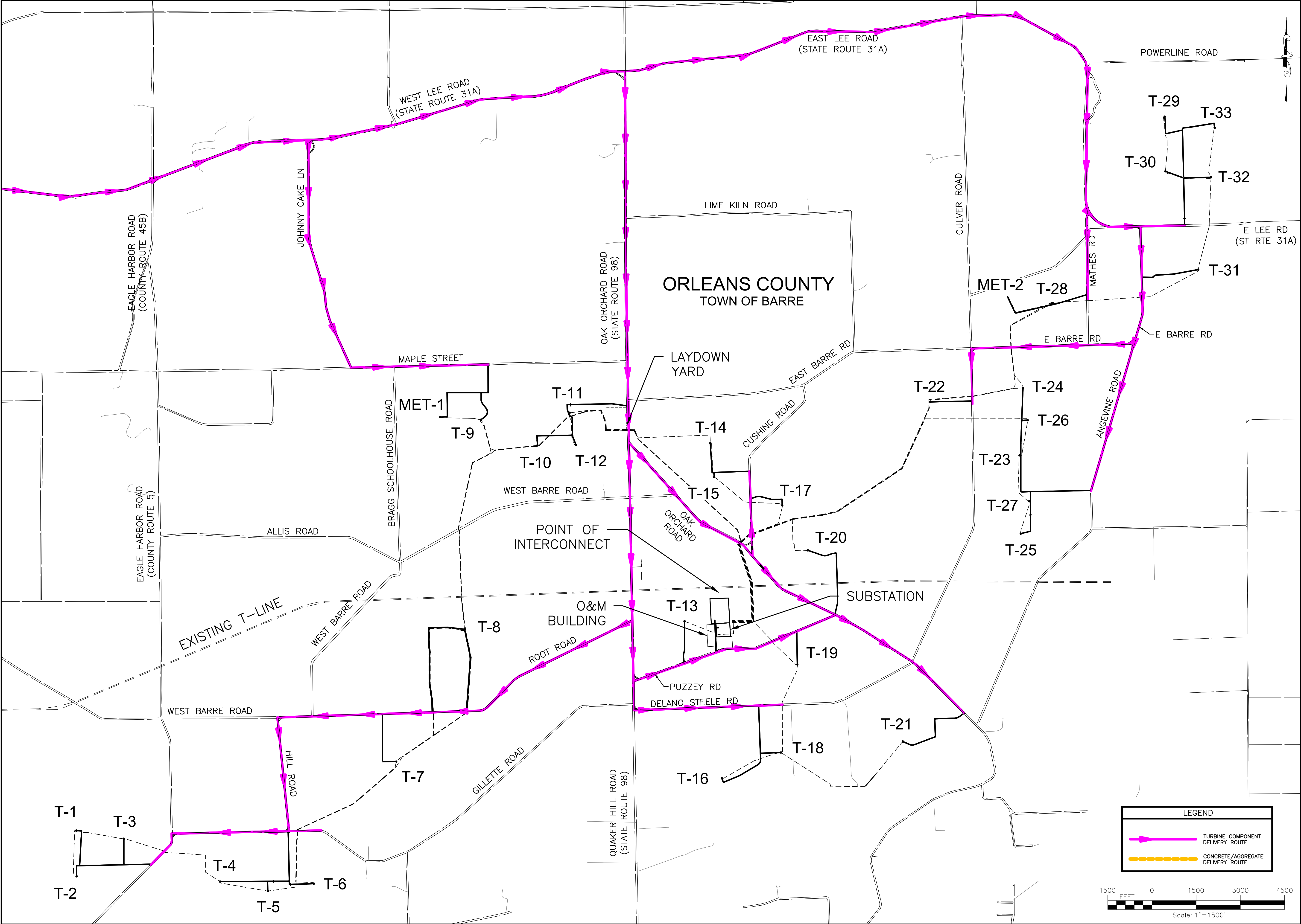
INDEX OF DRAWINGS:



DRAWING NO.	DESCRIPTION
C-001	COVER
C-010	GENERAL PLAN
C-020	TRANSPORTATION PLAN
C-030	TURBINE COORDINATES
C-040	GENERAL NOTES
C-050,060,070,090	DETAILS
C-100'S	PUBLIC ROAD IMPROVEMENT PLANS
C-200'S	ACCESS ROAD PLANS
C-300'S	COLLECTION LINE PLANS

DRAWING NO. C-001 SHEET 001 OF 078	PROJECT HERITAGE WIND FARM ORLEANS COUNTY NOT FOR CONSTRUCTION		FISHER ASSOCIATES FISHER www.fisherassoc.com		FA PROJECT NO. 185052 PROJECT MANAGER S. WILKINSON DRAWN BY DP SCALE AS SHOWN	ISSUE DATE 01/20	COPYRIGHT © 2019 FISHER ASSOCIATES, P.E., L.S., L.A., D.P.C.			7		
							New York State Education Law, Section 1602(2)(b) requires that all drawings be prepared for any person, unless they are prepared by a duly licensed professional engineer or land surveyor, to alter on them in any way, the drawing engineer or land surveyor shall be held responsible for the accuracy of the information contained therein and the alteration, and a specific description of the alteration.			6		
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FILE NAME: H:\Projects\185052-00-Heritage_Wind_Form\Eng\CAD\185052_Transportation Plan.dwg
DATE/TIME: 1/15/2020 10:43:56 AM
USER: Doug Perrotto



PROJECT HERITAGE WIND FARM ORLEANS COUNTY NOT FOR CONSTRUCTION		DRAWING NO. C-020	SHEET 003 OF 078		
				TITLE OF DRAWING TRANSPORTATION PLAN	
					
				FA PROJECT NO. 185052 PROJECT MANAGER S. WILKINSON DRAWN BY DP SCALE AS SHOWN	
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ISSUE DATE 01/20		DESCRIPTION REV			
DATE		BY			

Heritage Turbine Coordinates (HER_LAY_035)				
Turbine Number	Easting*	Northing*	Ground Elevation (AMSL FEET)	Top of Pedestal Elevation (AGL FEET)
T1	1233357.93	1145174.35	633.11	635.50
T2	1233369.63	1143623.26	640.19	645.00
T3	1234972.93	1144900.46	657.40	659.00
T4	1238235.32	1143445.61	634.54	636.50
T5	1239854.57	1143124.27	644.68	649.50
T6	1241413.98	1143375.01	631.61	637.00
T7	1244212.69	1147518.99	639.81	641.50
T8	1246530.00	1152006.27	643.97	646.00
T9	1247083.05	1159117.66	659.79	663.00
T10	1249002.86	1158249.17	661.62	664.00
T11	1250095.53	1159356.01	655.68	659.00
T12	1250315.60	1158258.99	654.04	656.50
T13	1253993.41	1152280.03	649.91	655.50
T14	1254866.89	1158323.62	665.84	670.00
T15	1255000.70	1157169.71	653.58	657.00
T16	1255256.16	1146949.87	646.31	649.00
T17	1257305.76	1156211.99	649.34	651.00
T18	1257262.58	1147825.77	643.08	645.00
T19	1257818.26	1150812.12	642.08	645.00
T20	1258177.85	1154685.69	651.23	653.00
T21	1261394.18	1148199.77	671.10	675.00
T22	1262326.93	1159723.81	670.95	674.50
T23	1265359.67	1157908.65	653.36	657.50
T24	1265473.95	1160195.92	652.04	654.00
T25	1265396.77	1155254.88	644.93	646.50
T26	1265629.22	1159103.66	655.00	656.50
T27	1265685.30	1156353.20	680.90	682.50
T28	1266442.59	1163054.14	666.56	668.50
T29	1270280.98	1169403.46	668.86	670.50
T30	1270305.11	1167549.05	664.29	667.00
T31	1271416.40	1164214.29	652.24	654.00
T32	1271852.15	1167345.89	660.00	664.00
T33	1271977.56	1169026.33	669.49	671.00
MET-1	1245698.07	1159207.63	662.51	663.50
*COORDINATES BASED ON NAD83 NEW YORK STATE PLANES, WEST ZONE, US FEET				

PROJECT

HERITAGE WIND FARM
ORLEANS COUNTY
NOT FOR CONSTRUCTION


TITLE OF DRAWING


TURBINE COORDINATES

DRAWING NO.

C-030

SHEET 004 OF 078




WWW.FISHERASSOC.COM

FA PROJECT NO.
185052
PROJECT MANAGER
S. WILKINSON

DRAWN BY
DP
SCALE
AS SHOWN

ISSUE DATE
01/20

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New York State Education Law, Section
1605(4) requires that all drawings created
after July 1, 2009, be signed by the
licensed professional engineer or land
surveyor, to alter an item in any way.

If an item bearing the seal of and
signature of a licensed professional engineer
or land surveyor is altered, the
altering engineer or land surveyor
must sign and date the alteration, and
the notation "Altered by," followed by the
signature of the altering engineer or
land surveyor, and a specific description
of the alteration.

- PROJECT COORDINATES ARE IN NAD83 NEW YORK STATE PLANES, WEST ZONE - US FOOT.
2. THE PLANIMETRIC FEATURES AND CONTOURS ARE FROM THE NYS GIS DATA CLEARINGHOUSE.
3. THE ELEVATIONS SHOWN ON THESE DRAWINGS ARE TO BE CONSIDERED GUIDANCE AND SHOULD BE ADJUSTED TO FIT ACTUAL FIELD CONDITIONS DURING CONSTRUCTION. THE CONTRACTOR SHALL USE JUDGEMENT WHEN ESTABLISHING CONSTRUCTION GRADES AND ELEVATIONS.
4. SURVEYED BOUNDARY LINES FOR PROPERTIES AND RIGHT-OF-WAY INFORMATION WERE GATHERED FROM ORLEANS COUNTY.
5. FROM THE CONTROL POINTS AND BENCHMARKS PROVIDED BY THE OWNER'S ENGINEER, THE CONTRACTOR SHALL SUPPLY ALL CONSTRUCTION SURVEYING AND STAKING REQUIRED TO BUILD THE PROJECT IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR EXTRACTING STAKING COORDINATES FROM THE CONSTRUCTION DRAWINGS PROVIDED BY THE OWNER'S ENGINEER. ELECTRONIC COPIES OF THE CONSTRUCTION DRAWINGS WILL BE PROVIDED TO THE CONTRACTOR IF REQUESTED. ALL STAKEOUT SHALL BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION.
6. ALL MATERIALS AND SOILS SHALL BE DISPOSED OF IN PERMITTED DISPOSAL SITES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ADDITIONAL NYSDEC PERMITTED DISPOSAL SITES.
7. THE CONTRACTOR SHALL APPLY FOR AND SECURE PERMITS FROM THE STATE AS NECESSARY BEFORE DRIVING CONSTRUCTION EQUIPMENT OVER AND ACROSS THE STATE HIGHWAYS AND ROADS.
8. MATERIALS USED SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION (NYSDOT) "STANDARD SPECIFICATIONS AND DETAILS".
9. WORK WITHIN A STATE RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NEW YORK DEPARTMENT OF TRANSPORTATION (NYSDOT) "STANDARD SPECIFICATIONS AND DETAILS" AND "NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS".
10. ALL WORK PERFORMED WITHIN A STATE RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE PERMIT ISSUED BY THE NEW YORK DEPARTMENT OF TRANSPORTATION ON FILE WITH THE OWNER'S ENGINEER AND PROVIDED TO THE CONTRACTOR. THE CONTRACTOR SHALL OBTAIN AND PROVIDE AN INDIVIDUAL HIGHWAY PERMIT BOND BEFORE BEGINNING WORK ON STATE RIGHT-OF-WAY.
11. SOIL DISTURBANCE LIMITS ARE SHOWN ON THE CONSTRUCTION DRAWINGS. THE CONTRACTOR SHALL KEEP ALL EARTHWORK ACTIVITY BETWEEN THESE LIMITS. OTHER CONSTRUCTION ACTIVITY INCLUDING TRAVELING BETWEEN TURBINE SITES, MATERIAL STORAGE, EROSION CONTROL MEASURES, AND TREE TRIMMING ARE RESTRICTED TO WITHIN THE CONSTRUCTION EASEMENTS ON LEASED PROPERTIES ONLY.
12. THE CONTRACTOR SHALL DISPOSE OF ALL EXCESS SOIL RESULTING FROM THE CONSTRUCTION OF THE ROADS OR TURBINE FOUNDATIONS IN AN APPROVED MANNER. NO TOPSOIL WILL BE ALLOWED TO LEAVE THE PROPERTY FROM WHICH IT WAS DUG. EXCESS TOPSOIL SHALL BE DISTRIBUTED INTO A THIN LAYER ON LAND IMMEDIATELY ADJACENT TO WHERE THE TOPSOIL ORIGINATED. WHILE DOING SO THE CONTRACTOR SHALL AVOID CAUSING RIDGES OR MOUNDS THAT WOULD MAKE IT DIFFICULT TO TRAVEL BETWEEN TURBINE SITES. MATERIAL STORAGE, EROSION CONTROL MEASURES, AND TREE TRIMMING ARE RESTRICTED TO WITHIN THE CONSTRUCTION EASEMENTS ON LEASED PROPERTIES ONLY.
13. THE FINISHED SURFACE OF CRANE PAD SHALL NOT SLOPE MORE THAN 1% IN ANY DIRECTION. THE CRANE PAD SHALL BE CONSTRUCTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
14. THE CONTRACTOR SHALL PROOF ROLL THE SUBGRADE PRIOR TO ANY AGGREGATE MATERIALS BEING PLACED. THE PROOF ROLL OPERATIONS SHOULD COMPLY WITH THE GEOTECHNICAL ENGINEER RECOMMENDATIONS. IF IT RAINS BETWEEN THE TIME THE FINISHED CRANE PAD SURFACE IS PROOF ROLLED AND THE TIME THE CRANE PAD SURFACE IS TO BE USED ON THE CRANE PAD, THE CRANE PAD SURFACE SHALL BE PROOF ROLLED AGAIN TO SHOW THAT RAIN HAS NOT WEAKENED IT.
15. OVER LEGAL WEIGHT VEHICLES SHALL FOLLOW THE DESIGNATED DELIVERY ROUTE ONLY.
16. PERMANENT PIPE CULVERTS SHALL BE SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE. TEMPORARY PIPE CULVERT EXTENSION MATERIALS SHALL BE DETERMINED BY THE CONTRACTOR. TEMPORARY CULVERTS SHALL BE CHOSEN BASED ON ANTICIPATED EXPOSURE TO OVERWEIGHT CONSTRUCTION TRAFFIC.
17. CONTRACTOR SHALL FIELD VERIFY THE LENGTHS OF ALL PIPE CULVERTS TO BE REMOVED AND INSTALLED PRIOR TO ORDERING THE PIPE.
18. CULVERT INVERTS SHALL BE DETERMINED DURING INSTALLATION TO PROVIDE POSITIVE FLOW IN THE DIRECTION OF EXISTING SLOPES. CONTRACTOR TO INSTALL AT ADEQUATE DEPTHS AND DAYLIGHT TO DRAIN.
19. THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY BEFORE ANY CONSTRUCTION WORK HAS BEGUN, OF OBTAINING FROM ALL UTILITIES THE EXACT LOCATION OF ANY UNDERGROUND FACILITIES IN THE AREA OF CONSTRUCTION, WHETHER INDICATED ON THE PLANS OR NOT. WHENEVER A QUESTION ARISES REGARDING THE EXISTENCE OR LOCATION OF A BURIED UTILITY, CALL THE TOLL FREE TELEPHONE NUMBER, 1-800-632-4949, BEFORE STARTING EXCAVATION. ALLOW 48 HOURS FOR ANY OTHER EMERGENCY ASSISTANCE.
20. ANY FACILITIES DISTURBED BY THE CONTRACTOR SHALL BE RESTORED AT CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL COORDINATE WITH THE PROPER UTILITY FOR THE RELOCATION OF ANY FACILITY DESIGNATED ON THE PLANS OR DEEMED NECESSARY TO BE RELOCATED IN ORDER TO COMPLETE CONSTRUCTION OF THE PROJECT.
21. RESIDENTS SHALL BE NOTIFIED OF IMPENDING SERVICE OUTAGES AND NO RESIDENCE SHALL BE WITHOUT SERVICE OVERNIGHT DUE TO CONSTRUCTION ACTIVITIES.
22. ALL ROADS SHALL REMAIN OPEN TO THROUGH TRAFFIC DURING CONSTRUCTION ON THE PRIVATE SITES.
23. THE CONTRACTOR SHALL BE REQUIRED TO RELOCATE OR TO REMOVE AND RE-INSTALL ALL ROAD SIGNS WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND TO TEMPORARILY RESET ALL SUCH SIGNS DURING CONSTRUCTION.
24. ALL WORK INVOLVING SIGNS SHALL BE GOVERNED BY THE FOLLOWING REQUIREMENTS:
 - * SIGNS SHALL NOT BE MOVED UNTIL PROCESS OF WORK DEMANDS.
 - * EVERY SIGN REMOVED MUST BE RE-ERECTED AT A TEMPORARY LOCATION IN A WORKMANLIKE MANNER AND BE VISIBLE TO HIGHWAY TRAFFIC.
 - * ALL SUCH SIGNS MUST BE MAINTAINED STRAIGHT AND NEAT FOR THE DURATION OF THE TEMPORARY SETTING.
 - * THE LATEST EDITION OF THE NATIONAL "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
25. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND ADJACENT LANDS UNTIL THE OWNED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. ALL OTHER EXISTING ROW MARKERS AND/OR PROPERTY PINS SHALL BE MAINTAINED OR REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH NEW YORK LAW.
26. A CONCRETE WASH OUT AREA SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS AT EACH TURBINE LOCATION.
27. ALL DEBRIS SHALL BE DISPOSED OF OFF-SITE AT LOCATIONS PROVIDED BY THE CONTRACTOR.
28. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE FROM ACCESS ROADS, EXCAVATIONS AND STAGING AREAS AROUND THE TURBINE SITES.
29. THE INTENT OF THE PLANS IS TO LOCATE THE ACCESS ROADS ALONG THE EDGE OF FIELDS AND TOP OF BANKS.
30. CONTRACTOR IS RESPONSIBLE FOR ALL TURNAROUNDS AND CRANE BUILD AREAS. THEIR LOCATIONS ON THE PLANS ARE APPROVED LOCATIONS, SHOULD THE CONTRACTOR DESIRE TO CONSTRUCT THEM.
31. Dewatering operations are expected throughout construction and shall be performed in accordance with the details.
32. REFER TO ELECTRICAL PLANS FOR ELECTRICAL SYSTEM SPECIFIC DETAILS. ANY CONFLICTS BETWEEN PLAN SETS SHOULD BE RESOLVED BY THE OWNER.
33. THIS PROJECT IS SUBJECT TO THE NEW YORK STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (SPDES) GENERAL PERMIT FOR CONSTRUCTION ACTIVITIES. ALL CONSTRUCTION SHALL COMPLY TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) STORMWATER MANAGEMENT DESIGN MANUAL.
34. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE NYSDEC "STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL". UPON COMPLETION OF THE PROJECT, ALL MATERIALS USED FOR TEMPORARY EROSION CONTROL SHALL BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
35. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRAINAGE THROUGHOUT THE CONSTRUCTION OF THIS PROJECT AND SHALL NOT BLOCK NATURAL OR MANMADE CREEKS OR DRAINAGE SWALES CAUSING RAINWATER TO POND. ALL DRAINAGE PATTERNS MUST BE CONTAINED TO THE EXISTING

PARCELS, CONTRACTOR CANNOT SHIFT DRAINAGE PATTERNS ONTO OTHER PARCELS. ALL ROADSIDE DITCHES WITHIN THE CONSTRUCTION LIMITS ARE TO BE CLEANED, HAVE SILT REMOVED AND BE GRADED TO DRAIN AS NEEDED.

36. THE CONTRACTOR SHALL KEEP ALL PERSONNEL AND EQUIPMENT ON THE ROADS DESIGNATED FOR USE DURING CONSTRUCTION SHOWN IN THE TRANSPORTATION ROUTE PLAN. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE POSTING OF ANY ROADS AND/OR BRIDGES OVER WHICH THEY MIGHT BE HAULING MATERIALS.

37. ALL OPEN EXCAVATIONS LEFT OVERNIGHT THROUGHOUT THE PROJECT SHALL BE PROTECTED BY FENCES AND BARRICADES 4 FEET OR TALLER.

38. ALL DISTRIBUTION AND GAS WELL LINE CROSSING SHALL BE MATTED. GAS TRANSMISSION LINES SHALL REQUIRE A TIMBER AIR BRIDGE.

39. ALL ELECTRIC COLLECTION LINES SHALL MAINTAIN A MINIMUM 24 INCH VERTICAL SEPARATION BETWEEN EXISTING DISTRIBUTION AND GAS WELL LINES.

40. INVASIVE PLANT SPECIES ARE FOUND THROUGHOUT THE PROJECT LIMITS. REFER TO THE INVASIVE SPECIES CONTROL PLAN PREPARED BY ENVIRONMENTAL DESIGN & RESEARCH (EDR).

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) CONSTRUCTION NOTES:

1. PRIOR TO ANY DISTURBANCE, THE CONTRACTOR SHALL ENSURE THAT THE NOTICE OF INTENT (NOI) PREPARED BY THE OWNER HAS BEEN SUBMITTED TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) AND THAT THE APPROPRIATE LETTER OF ACKNOWLEDGMENT CONTAINING A SPDES PERMIT IDENTIFICATION NUMBER HAS BEEN OBTAINED. COPIES OF ALL DOCUMENTS ARE TO BE MAINTAINED AT THE PROJECT SITE PRIOR TO ANY DISTURBANCE INCLUDING A COPY OF THE SWPPP. THE CONTRACTOR SHALL ENSURE THAT A PRE-CONSTRUCTION MEETING IS HELD TO ESTABLISH AN APPROVED SEQUENCE OF ACTIVITIES IN ACCORDANCE WITH THE SWPPP AND SUPPORTING DOCUMENTATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE IDENTIFIED SEQUENCE OF ACTIVITIES IS FOLLOWED PRECISELY.

2. ALL CONTRACTORS AND SUBCONTRACTORS SHALL CERTIFY THAT THEY UNDERSTAND AND AGREE TO COMPLY WITH THE TERMS AND CONDITIONS OF THE SWPPP PRIOR TO COMMENCEMENT OF ANY DISTURBANCE. THE SWPPP REPORT CONTAINS THE CONTRACTOR AND SUBCONTRACTOR CERTIFICATION FORM THAT SHALL BE USED.

3. STORM WATER DISCHARGES AUTHORIZED BY THE PERMIT SHALL NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF WATER QUALITY STANDARDS INCLUDING BUT NOT LIMITED TO THESE PROVISIONS:

A. THERE SHALL BE NO INCREASE IN TURBIDITY THAT WILL CAUSE A SUBSTANTIAL VISIBLE CONTRAST TO NATURAL CONDITIONS.

B. THERE SHALL BE NO SUSPENDED OR SETTLEABLE SOLIDS THAT WILL CAUSE DEPOSITION OR IMPAIR THE RECEIVING WATERS FOR THEIR BEST USES.

C. THERE SHALL BE NO DISCHARGE OF RESIDUES FROM PETROLEUM PRODUCTS, CHEMICAL PRODUCTS, OR FLOATING SUBSTANCES.

4. THE CONTRACTOR SHALL INSTALL A RAIN GAUGE ON-SITE, ACCURATELY RECORD ITS MEASUREMENT EVERY MORNING DURING CONSTRUCTION AND MAINTAIN A LOG ONSITE.

5. EARTH WORK SHALL BE PERFORMED ONLY WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE EXISTING WEATHER CONDITIONS AND THE WEATHER FORECAST TO DETERMINE IF THE CONDITIONS AT HAND ARE SUITABLE PRIOR TO THE COMMENCEMENT OF WORK EACH DAY. NO EARTHWORK SHALL BE PERMITTED DURING PERIODS OF HEAVY PRECIPITATION.

6. CLEARING AND GRADING SHALL BE PERFORMED TO MINIMIZE DISTURBANCE OF GROUND COVER. ONLY THE SMALLEST AREA THAT IS PRACTICAL SHALL BE DISTURBED AT ANY ONE TIME. THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE NYSDEC IF MORE THAN 5 ACRES OF DISTURBANCE AT ANY GIVEN TIME IS REQUIRED.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING DUST ORIGINATING FROM ITS CONSTRUCTION OPERATIONS TO THE SATISFACTION OF THE OWNER AND SWPPP PROFESSIONAL. THE CONTRACTOR SHALL SUPPLY THE NECESSARY EQUIPMENT AND MATERIALS TO ACCOMPLISH ADEQUATE DUST CONTROL.

8. THESE PLANS, THE SWPPP NOI AND SUPPORTING DOCUMENTS PREPARED BY THE OWNER AND INCORPORATED HEREIN, THE SPDES PERMIT, AND THE "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL" ARE THE MINIMUM ANTICIPATED EROSION AND SEDIMENT CONTROL MEASURES REQUIRED FOR THE DEVELOPMENT AS PROPOSED. ADDITIONAL MEASURES REQUIRED NECESSARY DURING CONSTRUCTION BY THE NYSDEC, MUNICIPALITIES, OR THE QUALIFIED PROFESSIONAL, SHALL BE CONSTRUCTED AND MAINTAINED BY THE CONTRACTOR.

9. IN AREAS WHERE FINAL GRADING CREATES RUN-OFF CONCENTRATIONS THAT RETARD SLOPE STABILIZATION, "JUTE-MESH", SOD, OR ENERGY DISSIPATION, AS APPROVED BY THE QUALIFIED PROFESSIONAL, SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR TO ACHIEVE FINAL STABILIZATION.

10. ALL DISTURBED AREAS SHALL BE STABILIZED WITH EITHER TEMPORARY OR PERMANENT SEED MIXES AND MULCHED, AS SOON AS CONSTRUCTION PRACTICES AND WEATHER PERMITS. DISTURBED AREAS INCLUDING TOPSOIL STOCKPILES, SHALL NOT REMAIN UNSTABLE FOR MORE THAN 14 CONSECUTIVE DAYS AFTER CONSTRUCTION DISTURBANCE ACTIVITIES IN THE AREA HAVE TEMPORARILY OR PERMANENTLY CEASED.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE STORM WATER CONTROL DEVICES REMAIN IN PLACE AND FUNCTIONAL BY CLEANING, REPAIRING, AND, OR REPLACING THEM WHENEVER NECESSARY OR AS DIRECTED BY THE QUALIFIED PROFESSIONAL, UNTIL FINAL STABILIZATION IS ACHIEVED.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL EROSION AND SEDIMENT CONTROL DEVICES WHEN SPECIFIED BY THE QUALIFIED PROFESSIONAL.

13. FINAL STABILIZATION SHALL MEAN THAT ALL SOIL-DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED, A UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 80 PERCENT HAS BEEN ESTABLISHED OR EQUIVALENT STABILIZATION MEASURES HAVE BEEN EMPLOYED ON ALL PERVIOUS AREAS, AND ALL IMPERVIOUS COVERS HAVE BEEN INSTALLED.

14. THE CONTRACTOR SHALL NOTIFY THE OWNER WHEN CONSTRUCTION IS COMPLETE AND WHEN FINAL STABILIZATION OF THE AREAS TO BE DISTURBED IS COMPLETE, UPON RECEIPT OF SUCH NOTIFICATION, THE QUALIFIED PROFESSIONAL SHALL PREPARE A NOTICE OF TERMINATION (NOT), APPROVED BY THE OWNER/OPERATOR, FOR SUBMITTAL TO THE NYSDEC.

N.Y.S.D.O.T. STANDARD GENERAL PLAN NOTES

1. ROAD TO BE KEPT CLEAN OF MUD AND DEBRIS AT ALL TIMES.

2. ROADSIDE DRAINAGE TO BE MAINTAINED AT ALL TIMES.

3. MATERIALS, EQUIPMENT, AND VEHICLES ARE NOT TO BE STORED OR PARKED WITHIN THE NEW YORK STATE RIGHT-OF-WAY.

4. WORK ZONE TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE MOST RECENT NYSOTD STANDARD SPECIFICATIONS – SECTION 619 WORK ZONE TRAFFIC CONTROL, THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS 2009 EDITION AND THE NEW YORK STATE SUPPLEMENT.

5. NOTIFY NEW YORK STATE DEPARTMENT OF TRANSPORTATION RESIDENT ENGINEER, ERIC MEKA, ONE (1) WEEK PRIOR TO WORKING IN THE RIGHT-OF-WAY (TELEPHONE NUMBER: (716) 753-2821).

6. NOTIFY DIG SAFELY NEW YORK TWO (2) WORKING DAYS PRIOR TO DIGGING, DRILLING, OR BLASTING AT 1-800-962-7962 FOR UTILITY STAKE-OUT.

7. ALL MATERIALS USED WITHIN THE STATE RIGHT-OF-WAY MUST COMPLY WITH THE LATEST NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND THE CURRENT ADDENDA, ALONG WITH ANY APPROPRIATE CURRENT NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SHEETS.

8. ALL TRAFFIC CONTROL DEVICES MUST CONFORM TO THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (NMUTCD) FOR STREETS AND HIGHWAYS AND THE NEW YORK STATE SUPPLEMENT.

NEW YORK STATE DEPARTMENT OF AGRICULTURE AND MARKETS GUIDELINES FOR AGRICULTURAL MITIGATION FOR WIND POWER PROJECTS

THE FOLLOWING GUIDELINES SHALL APPLY TO CONSTRUCTION AREAS FOR WIND POWER CONSTRUCTION PROJECTS IMPACTING AGRICULTURAL LAND. THE PROJECT SPONSOR SHALL COORDINATE WITH THE NEW YORK STATE DEPARTMENT OF AGRICULTURE AND MARKETS (AG, AND MARKETS) TO DEVELOP AN APPROPRIATE SCHEDULE FOR INSPECTIONS TO ASSURE THAT THE GOALS OF THESE GUIDELINES ARE BEING MET. THE PROJECT SPONSOR SHALL HIRE AN ENVIRONMENTAL MONITOR TO OVERSEE THE CONSTRUCTION AND RESTORATION IN AGRICULTURAL FIELDS. THE ENVIRONMENTAL MONITOR SHALL BE ON SITE WHENEVER CONSTRUCTION OR RESTORATION WORK IS OCCURRING ON AGRICULTURAL LAND. THE ENVIRONMENTAL MONITOR SHALL MAINTAIN REGULAR CONTACT WITH THE AFFECTED FARMERS AND AG, AND MARKETS CONCERNING FARM RESOURCES AND MANAGEMENT MATTERS PERTINENT TO THE AGRICULTURAL LANDS AND THE SITE-SPECIFIC IMPLEMENTATION OF THE CONSTRUCTION AND RESTORATION GUIDELINES.

G. GOALS

MINIMIZE IMPACTS TO NORMAL FARMING OPERATIONS BY LOCATING STRUCTURES ALONG FIELD EDGES AND IN NONAGRICULTURAL AREAS WHERE POSSIBLE. AVOID DIVIDING LARGER FIELDS INTO SMALLER FIELDS, WHICH ARE MORE DIFFICULT TO FARM, BY LOCATING ACCESS ROADS ALONG THE EDGE OF AGRICULTURAL FIELDS (HEDGEROWS AND FIELD BOUNDARIES) AND IN NONAGRICULTURAL AREAS WHERE POSSIBLE. LOCATE ACCESS ROADS, WHICH CROSS AGRICULTURAL FIELDS, ALONG RIDGE TOPS AND FOLLOWING FIELD CONTOURS, WHEN POSSIBLE. LOCATING ACCESS ROADS ALONG FIELD BOUNDARIES AND RIDGE TOPS CAN REDUCE THE DISTURBANCE TO THE PERMANENT WIDTH OF ACCESS ROADS IN AGRICULTURAL FIELDS. THERE SHALL BE NO MORE THAN 20 FEET TO MINIMIZE THE LOSS OF AGRICULTURAL LAND. ALL EXISTING DRAINAGE AND EROSION CONTROL STRUCTURES SUCH AS DIVERSIONS, DITCHES, AND TIE LINES SHALL BE AVOIDED. APPROPRIATE MEASURES TAKEN TO MAINTAIN THE DESIGN AND EFFECTIVENESS OF THE EXISTING STRUCTURES. ANY STRUCTURES DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED TO A CLOSE TO ORIGINAL CONDITION AS POSSIBLE, AS SOON AS POSSIBLE, UNLESS SUCH STRUCTURES ARE TO BE ELIMINATED BASED ON A NEW DESIGN.

CONSTRUCTION REQUIREMENTS

[illegible]

RESTORATION REQUIREMENTS

FOLLOWING CONSTRUCTION, ALL DISTURBED AGRICULTURAL AREAS WILL BE DECOMPACTED TO A DEPTH OF 18 INCHES WITH A DEEP ROLLER OR HEAVY-DUTY CHISEL PLOW. SOIL COMPACTION RESULTS SHALL BE NO MORE THAN 250 POUNDS PER SQUARE INCH (PSI) AS MEASURED WITH A SOIL PENETROMETER. IN AREAS WHERE THE TOPSOIL WAS STRIPPED, SOIL DECOMPACTION SHALL BE CONDUCTED TO A DEPTH OF 18 INCHES. WHERE TOPSOIL WAS NOT STRIPPED, DECOMPACTION SHALL BE CONDUCTED TO A DEPTH OF 12 INCHES. THE SURFACE OF THE SUBSOIL PRIOR TO REPLACEMENT OF THE TOPSOIL, THE TOPSOIL WILL BE REPLACED TO ORIGINAL DEPTH AND THE ORIGINAL CONDITIONS WILL BE REESTABLISHED WHERE POSSIBLE. ALL ROCKS 4 INCHES AND LARGER SHALL BE REMOVED FROM THE SURFACE OF THE TOPSOIL. SUBSOIL DECOMPACTION AND TOPSOIL REPLACEMENT SHOULD BE AVOIDED AFTER OCTOBER 1, UNLESS THE LANDOWNER REQUESTS DECOMPACTION AND TOPSOIL REPLACEMENT BY DECEMBER 1. TOPSOIL REPLACEMENT SHOULD BE CONSIDERED CONJIGANT THAT AREAS RESTORED AFTER OCTOBER 1ST MAY NOT OBTAIN SUFFICIENT GROWTH TO PREVENT EROSION OVER THE WINTER MONTHS. IF AREAS ARE TO BE RESTORED AFTER OCTOBER 1ST, NECESSARY PROVISION SHOULD BE MADE TO RESTORE ANY ERODED AREAS IN THE SPRINGTIME, TO ESTABLISH PROPER GROWTH. ALL ACCESS ROADS WILL BE REGRADED TO ALLOW FOR FARM TRAFFIC AND TO PREVENT EROSION. ALL RESTORED AREAS SHALL BE SEEDING WITH THE SEED MIX SPECIFIED BY THE LANDOWNER, IN ORDER TO MAINTAIN CONSISTENCY WITH THE SURROUNDING AREAS. ALL SURFACE OR SUBSURFACE DRAINAGE STRUCTURES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO AS CLOSE TO PRECONSTRUCTION CONDITIONS AS POSSIBLE, UNLESS SAID STRUCTURES ARE TO BE REPLACED WITH A DIFFERENT TYPE OF DRAINAGE STRUCTURE. THE DESIGN OF THE DRAINAGE STRUCTURES SHALL BE APPROVED BY THE LANDOWNER. THE DESIGN OF THE WIND ENERGY PROJECT WILL BE CORRECTED WITH THE APPROPRIATE MITIGATION AS DETERMINED BY THE ENVIRONMENTAL MONITOR, THE DEPARTMENT AND THE LANDOWNER. ON AFFECTED FARMLAND, ANY RESTORATION PRACTICES SHALL BE POSTPONED UNTIL FAVORABLE (WETTER, RELATIVELY DRY) TOPSOIL/SUBSOIL CONDITIONS EXIST. RESTORATION SHALL NOT BE CONDUCTED WHILE SOILS ARE IN A WET OR HYDROLOGIC STATE. STOCKPILED TOPSOIL SHALL NOT BE REGRADED AND SUBSOIL SHALL NOT BE DECOMPACTION UNTIL PLANTING IS DETERMINED TO BE FAVORABLE. RESTORATION SHALL BE CONDUCTED THROUGH THE WINTER MONTHS WHEN IT OCCURS IN AGRICULTURAL FIELDS BETWEEN THE MONTHS OF OCTOBER THROUGH MAY UNLESS FAVORABLE SOIL MOISTURE CONDITIONS EXIST. THE ENVIRONMENTAL MONITOR SHALL ADVISE AG & MARKETS REGARDING TENTATIVE RESTORATION PLANNING. POTENTIAL SCHEDULES WILL BE DETERMINED BY CONDUCTING THE ATERBERG FIELDS TEST AND APPROPRIATE DEPTHS INTO TOPSOIL, STOCKPILES, AND SUBSOILS. RESTORATION SHALL BE CONDUCTED IN AGRICULTURAL FIELDS AND PASTURES. THE RESTORATION PHASE OF THE PROJECT, FOLLOWING RESTORATION, ALL CONSTRUCTION DEBRIS WILL BE REMOVED FROM THE SITE.

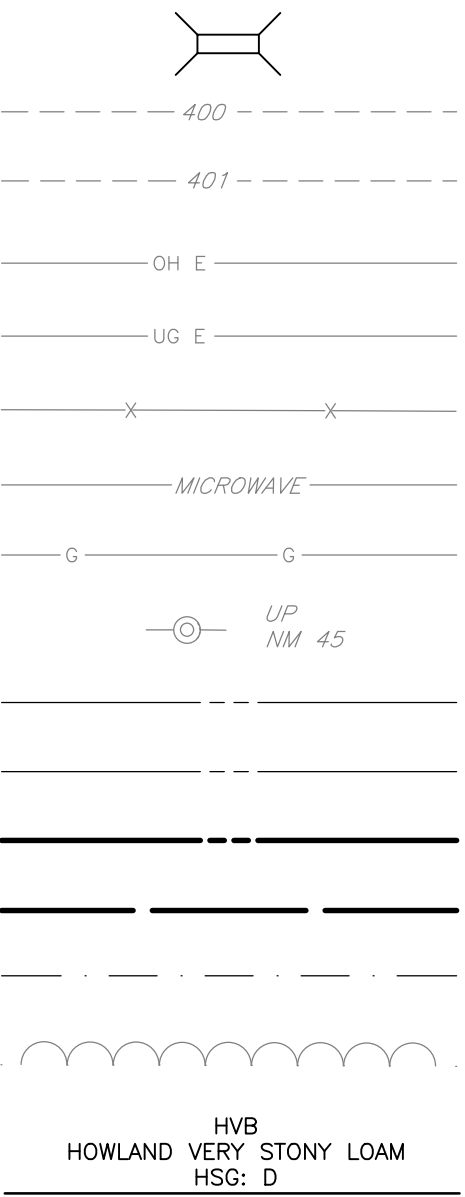
TWO YEAR MONITORING AND REMEDIATION

THE PROJECT SPONSOR WILL PROVIDE A MONITORING AND REMEDIATION PERIOD OF NO LESS THAN TWO YEARS IMMEDIATELY FOLLOWING THE COMPLETION OF INITIAL RESTORATION. THE TWO YEAR PERIOD ALLOWS FOR THE EFFECTS OF CLIMATIC CYCLES SUCH AS FROST ACTION, PRECIPITATION AND GROWING SEASONS TO OCCUR, FROM WHICH VARIOUS MONITORING DETERMINATIONS CAN BE MADE. THE MONITORING OF ALL AGRICULTURAL AREAS IMPACTED BY CONSTRUCTION AND THROUGH CONTACT WITH RESPECTIVE FARMLAND OPERATORS AND ADJACENT AGRICULTURE AND MARKETS, TOPSOIL DEFICIENCY AND TRENCH SETTLING SHALL BE MITIGATED BY CONSTRUCTION THAT ARE IN NEED OF MITIGATION AND TO IMPLEMENT THE FOLLOW-UP RESTORATION. GENERAL CONDITIONS TO BE MONITORED INCLUDE TOPSOIL THICKNESS, RELATIVE CONTENT OF ROCK AND LARGE STONES, TRENCH SETTLING, CROP PRODUCTION, DRAINAGE AND REPAIR OF SEVERED FENCES, ETC. IMPACTS WILL BE IDENTIFIED BY THE ENVIRONMENTAL MONITOR THROUGH ON SITE MONITORING OF ALL AGRICULTURAL AREAS IMPACTED BY CONSTRUCTION AND THROUGH CONTACT WITH RESPECTIVE FARMLAND OPERATORS AND ADJACENT AGRICULTURE AND MARKETS. TOPSOIL DEFICIENCY AND TRENCH SETTLING SHALL BE MITIGATED WITH IMPORTED TOPSOIL THAT IS CONSISTENT WITH THE QUALITY OF TOPSOIL ON THE AFFECTED SITE. EXCESSIVE AMOUNTS OF ROCK AND OVERSIZED STONE MATERIAL WILL BE DETERMINED BY A VISUAL INSPECTION OF DISTURBED AREAS AS COMPARED TO PORTIONS OF THE SAME FIELD LOCATED OUTSIDE THE CONSTRUCTION AREA. ALL EXCESS ROCKS AND LARGE STONES WILL BE REMOVED AND DISPOSED OF OFF SITE. THE PROJECT SPONSOR SHALL SUBMIT A REMEDIATION PLAN TO THE SUBCOMMITTEE FOR REVIEW AND APPROVAL. IF THE ADJACENT UNAFFECTED AGRICULTURAL LAND, THE PROJECT SPONSOR AS WELL AS OTHER APPROPRIATE PARTIES, WILL HELP TO DETERMINE THE APPROPRIATE REHABILITATION MEASURES TO BE IMPLEMENTED. BECAUSE CONDITIONS WHICH REQUIRE REMEDIATION MAY NOT BE NOTICEABLE AT OR SHORTLY AFTER THE COMPLETION OF CONSTRUCTION, THE SIGNING OF A RELEASE FORM PRIOR TO THE END OF THE REMEDIATION PERIOD WILL NOT OBTAIN THE PROJECT SPONSOR'S RESPONSIBILITY TO FULLY REDRESS ALL PROJECT IMPACTS. SUBSOIL COMPACTION TESTS WILL BE MADE FOR EACH SOIL TYPE IDENTIFIED ON THE AFFECTED AGRICULTURAL FIELDS. THE SUBSOIL COMPACTION TEST RESULTS WITHIN THE AFFECTED AREA WILL BE COMPARED WITH THOSE OF THE ADJACENT UNAFFECTED PORTION OF THE FARM FIELD/SOIL UNIT. WHERE REPRESENTATIVE SUBSOIL DENSITY OF THE AFFECTED AREA EXCEEDS THE REPRESENTATIVE SUBSOIL DENSITY OF THE UNAFFECTED AREAS, ADDITIONAL SHATTERING OF THE SOIL PROFILE WILL BE PERFORMED USING THE APPROPRIATE EQUIPMENT. DEEP SHATTERING OF THE SOIL PROFILE WILL BE PERFORMED TO THE DEPTH OF THE SUBSOIL COMPACTION. THE PROJECT SPONSOR WILL PREVENT ADDITIONAL SUBSOIL COMPACTION. OVERSIZED STONE/ROCK MATERIAL WHICH IS UPLOADED TO THE SURFACE AS A RESULT OF THE DEEP SHATTERING WILL BE REMOVED.

N.Y.S.D.O.T. STANDARD GENERAL PLAN NOTES

1. ROAD TO BE KEPT CLEAN OF MUD AND DEBRIS AT ALL TIMES.
2. ROADSIDE DRAINAGE TO BE MAINTAINED AT ALL TIMES.
3. MATERIALS, EQUIPMENT, AND VEHICLES ARE NOT TO BE STORED OR PARKED WITHIN THE NEW YORK STATE RIGHT-OF-WAY.
4. WORK ZONE TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE MOST RECENT NYSDOT STANDARD SPECIFICATIONS – SECTION 619 WORK ZONE TRAFFIC CONTROL, THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS 2009 EDITION AND THE NEW YORK STATE SUPPLEMENT.
5. NOTIFY NEW YORK STATE DEPARTMENT OF TRANSPORTATION RESIDENT ENGINEER, ERIC MEKA, ONE (1) WEEK PRIOR TO WORKING IN THE RIGHT-OF-WAY (TELEPHONE NUMBER: (716) 753-2821).
6. NOTIFY DI SAFELY NEW YORK TWO (2) WORKING DAYS PRIOR TO DIGGING, DRILLING, OR BLASTING AT 1-800-962-7962 FOR UTILITY STAKE-OUT.
7. ALL MATERIALS USED WITHIN THE STATE RIGHT-OF-WAY MUST COMPLY WITH THE LATEST NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND THE CURRENT APPENDIX A, WITH ANY APPROPRIATE CURRENT NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SHEETS.
8. ALL TRAFFIC CONTROL DEVICES MUST CONFORM TO THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (NMUTCD) FOR STREETS AND HIGHWAYS AND THE NEW YORK STATE SUPPLEMENT.

EXISTING LEGEND



BRIDGE

CONTOUR, MAJOR

CONTOUR, MINOR

ELECTRIC LINE, OVERHEAD

ELECTRIC LINE, UNDERGROUND

FENCE LINE

FREZNEL ZONE

GAS, UNDERGROUND

POLE, WITH UTILITY

PROPERTY LINE (APPROX.)

RIGHT OF WAY (APPROX.)

PROPERTY LINE (SURVEYED)

RIGHT OF WAY LINE
DELINEATED STREAM
TREE LINE
SOIL BOUNDARY & TYPE

NON-PARTICIPANT PROPE

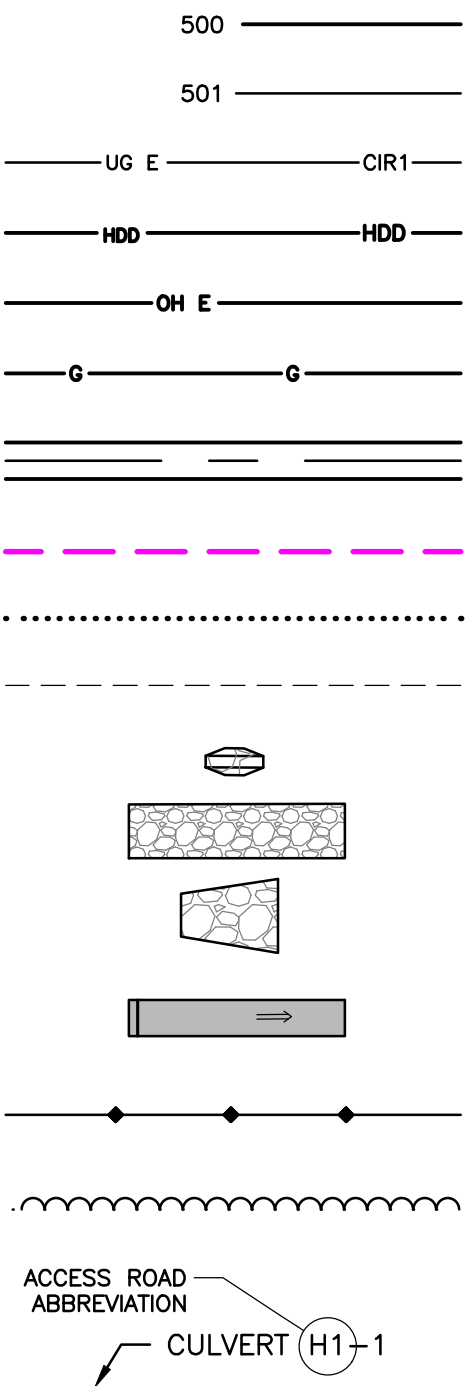
DELINEATED WETLAND
100' BUFFER AT STATE
QUALIFIED WETLANDS

DEC WETLAND

SENSITIVE AREA FOR AVOIDANCE

FEMA FLOODPLAIN

PROPOSED LEGEND





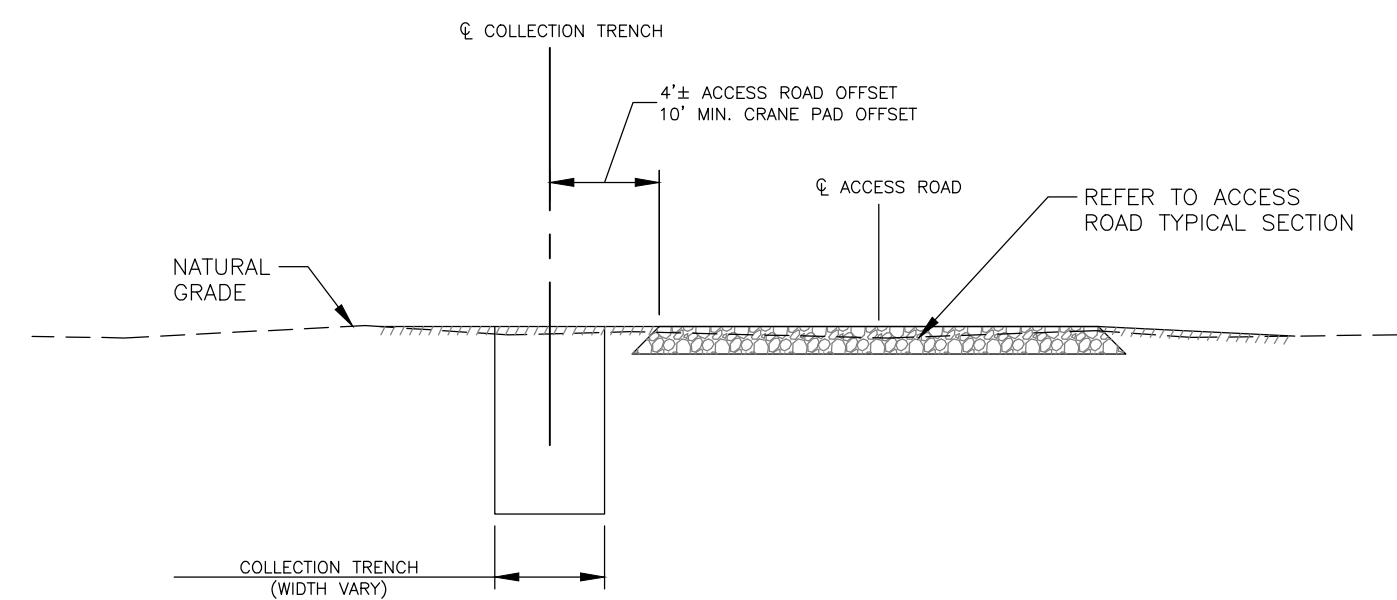
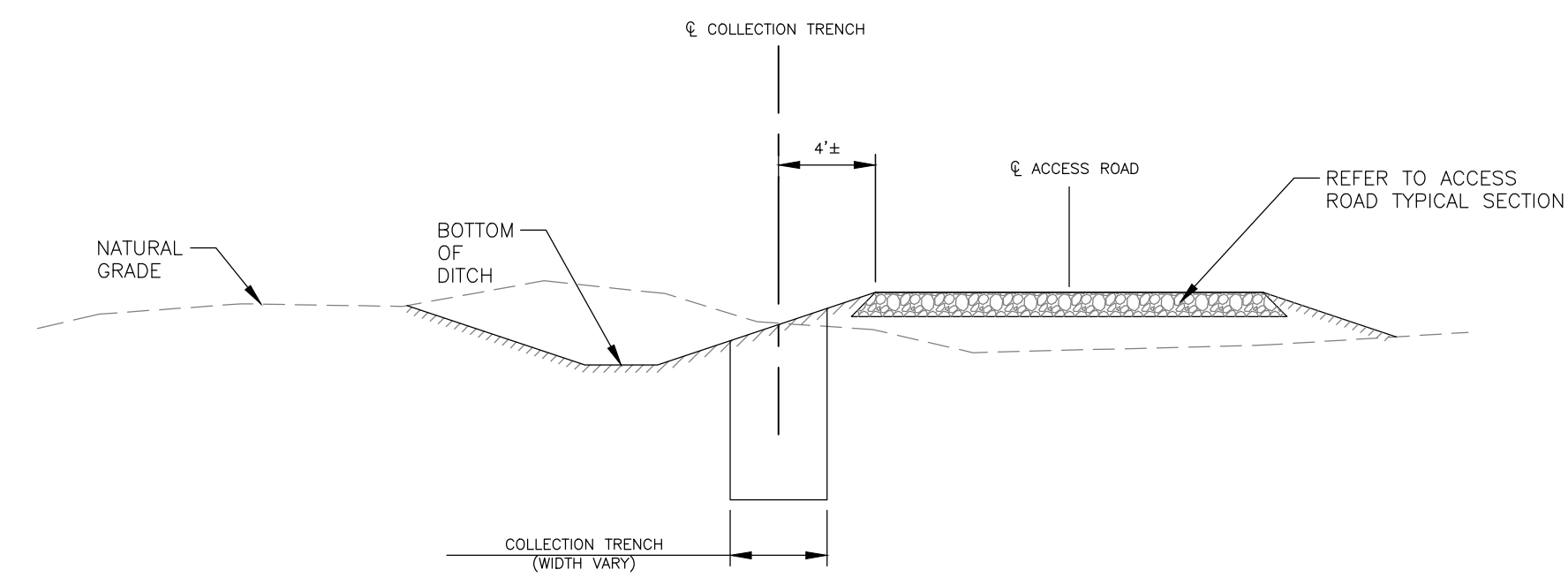
CONTOUR, MAJOR
CONTOUR, MINOR
UNDERGROUND ELECTRIC COLLECTION
(WITH CIRCUIT DESIGNATION)
HORIZONTAL DRILL ELECTRIC COLLECTION
OVERHEAD ELECTRIC TRANSMISSION
GAS LINE
NEW ACCESS ROAD
LIMIT OF DISTURBANCE
CRANE WALK PATH
TEMPORARY IMPROVEMENT
E & S, CHECK DAM
E & S, CONSTRUCTION ENTRANCE
E & S, RIP-RAP OUTLET PROTECTION
E & S, DITCH TURN OUT
E & S, SILT FENCE
TREE CLEARING LIMITS
PROPOSED PERMANENT CULVERT LABEL

CRANE BUILD AREAS

PROPOSED BORING PIT

GENERIC TURBINE FOUNDATION
SEE FOUNDATION PLANS FOR DETAILS

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			DRAWN BY DP		SCALE AS SHOWN		ISSUE DATE 01/20	
TITLE OF DRAWING GENERAL NOTES			DRAWN BY DP		SCALE AS SHOWN		ISSUE DATE 01/20	
DRAWING NO. C-040			SHEET 005 OF 078		DATE BY		REV 1	

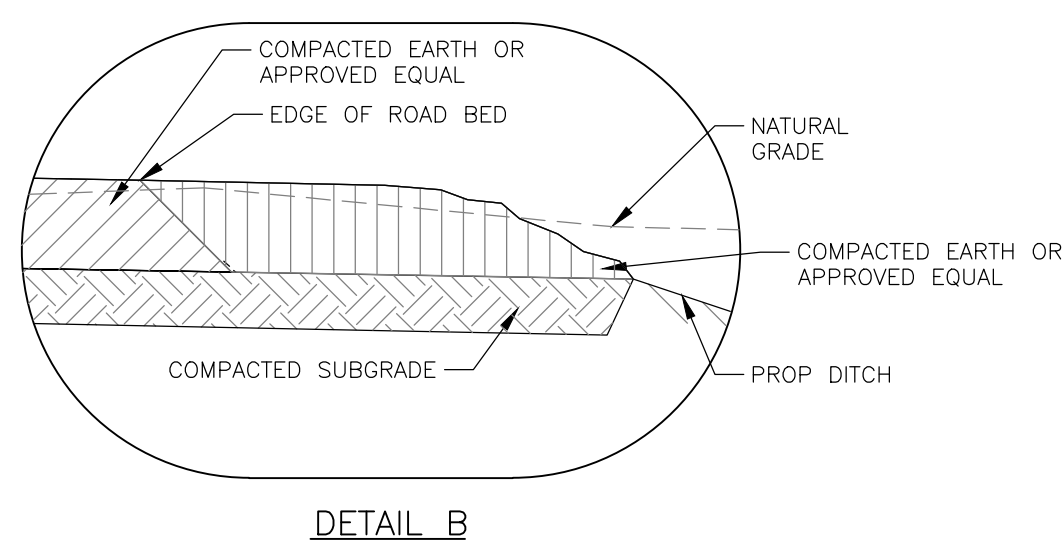
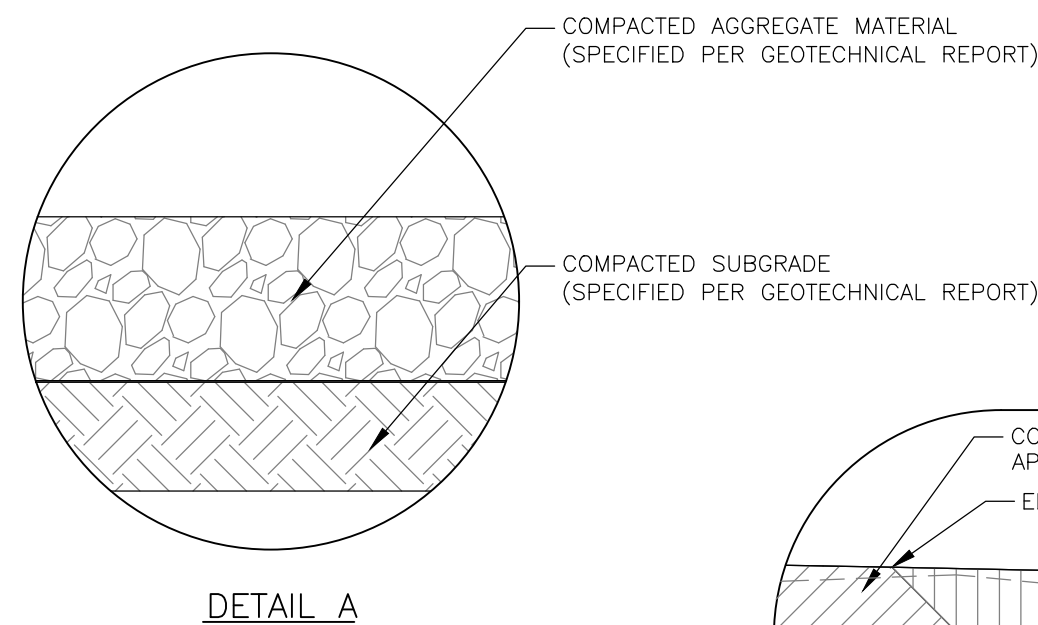
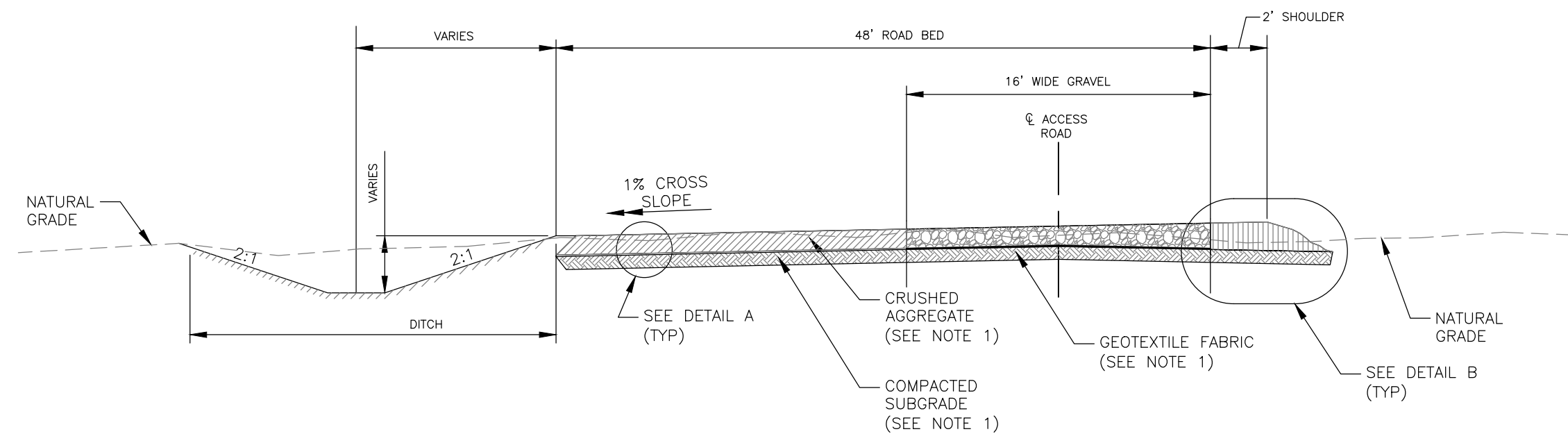
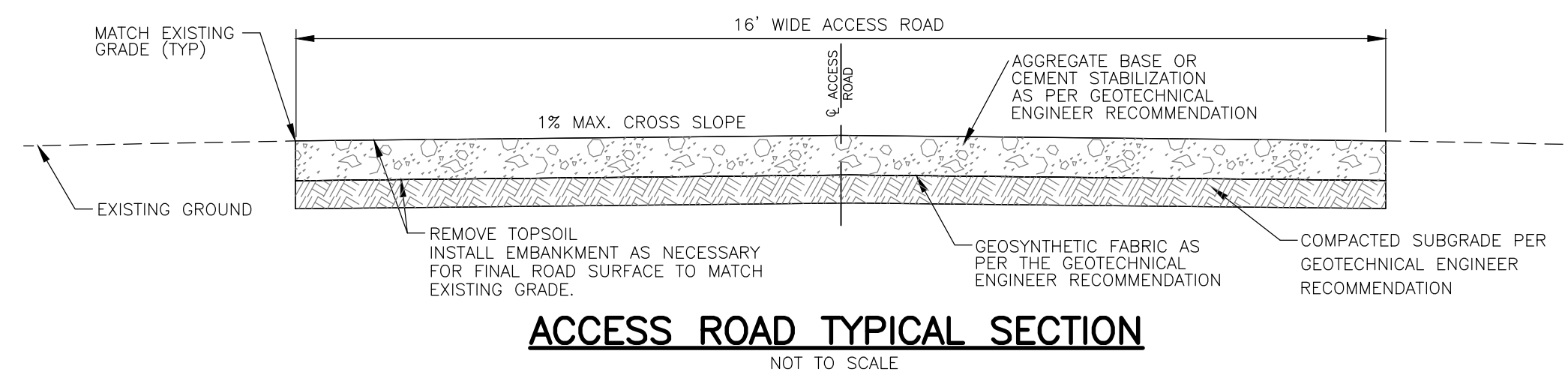


ACCESS ROAD/CRANE PAD WITHOUT DITCH

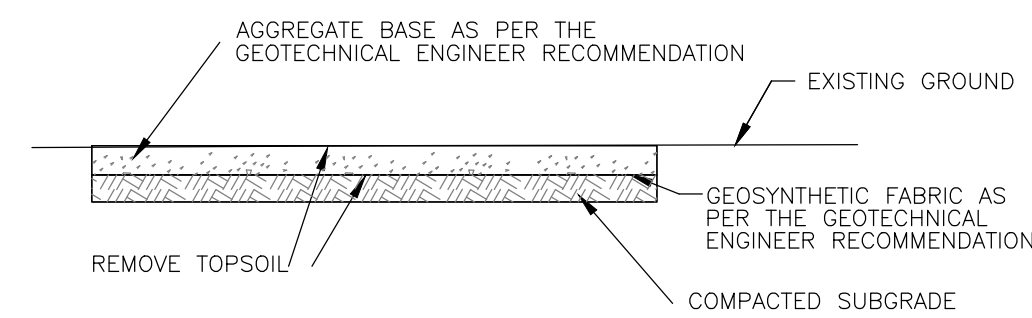
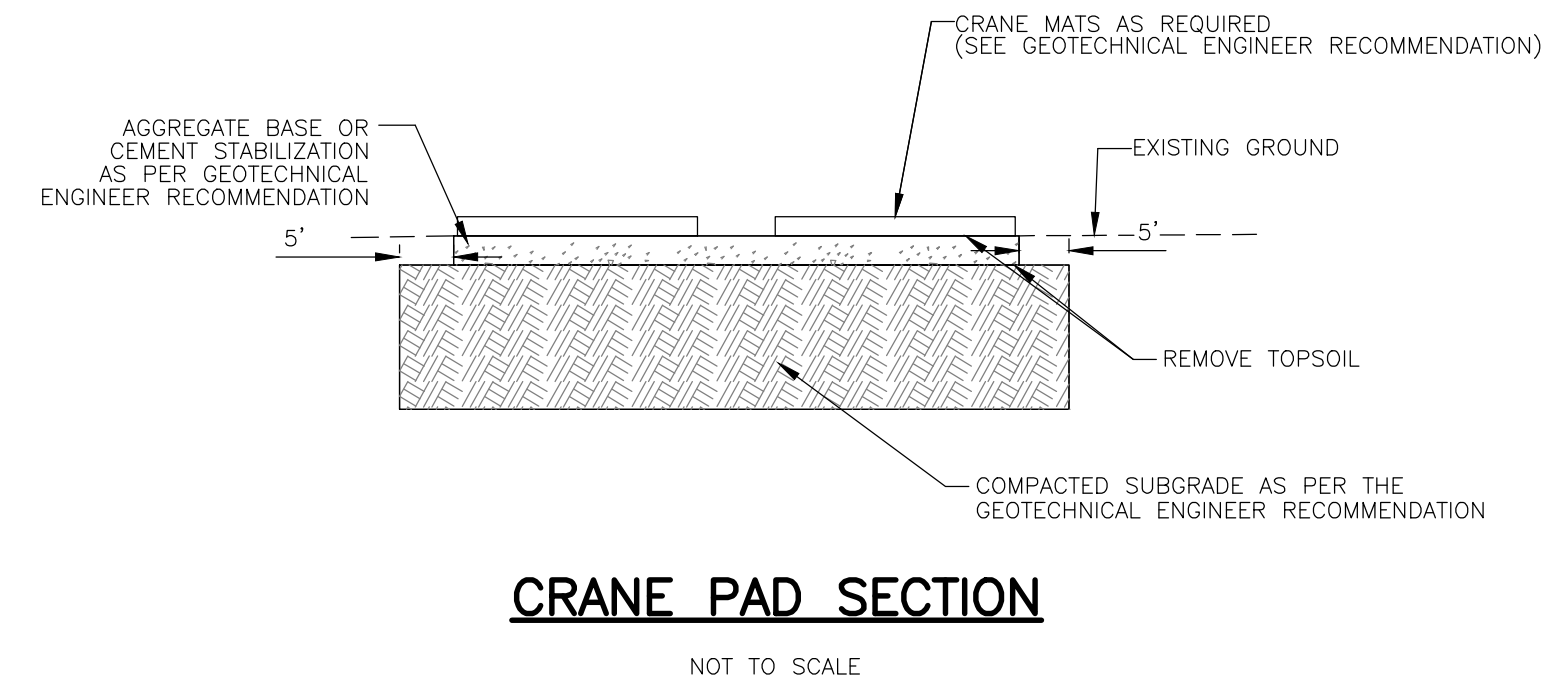
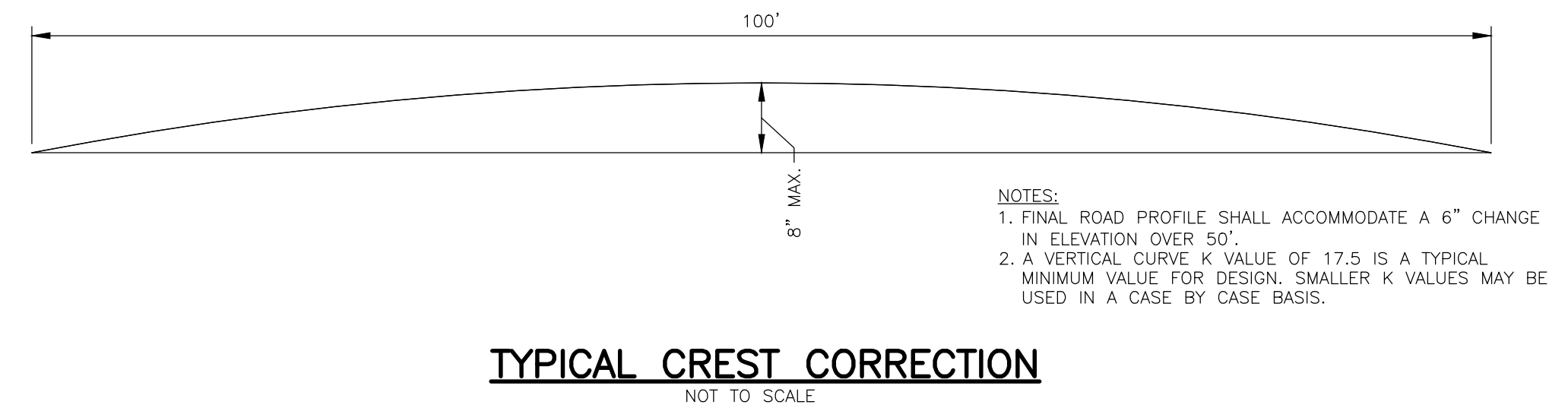
NOTE: REFER TO ELECTRICAL ENGINEER'S PLANS FOR TRENCH DETAILS

**COLLECTION CABLE ALIGNMENT ADJACENT
TO ACCESS ROAD/CRANE PAD**

NOT TO SCALE

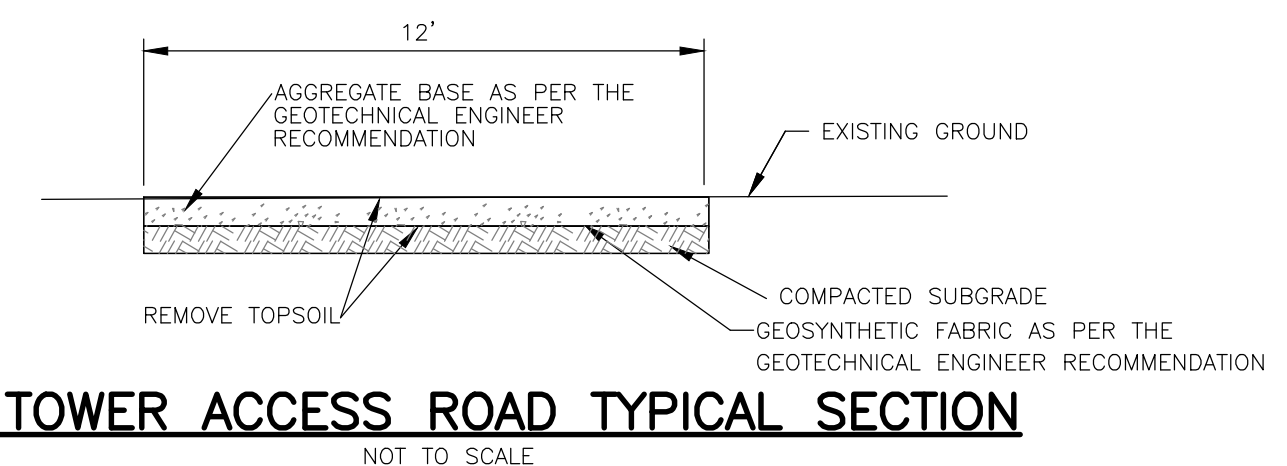
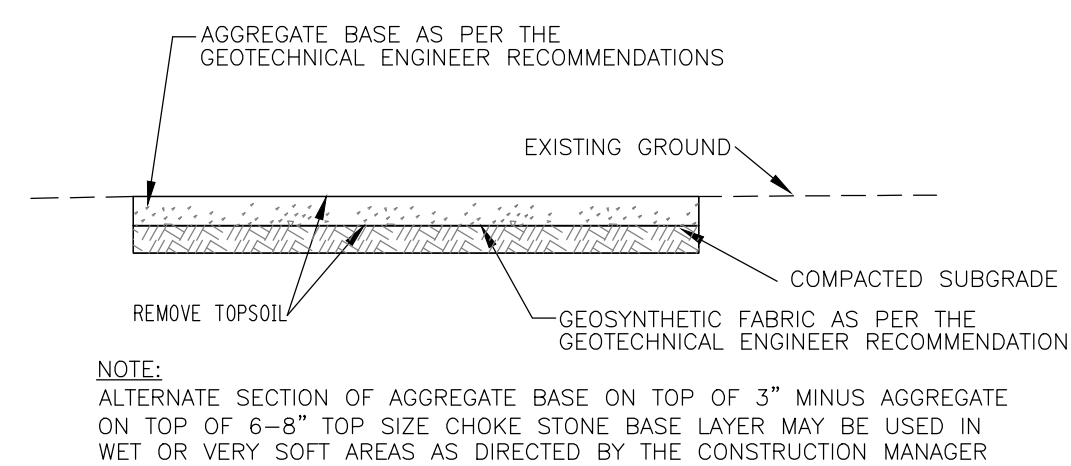


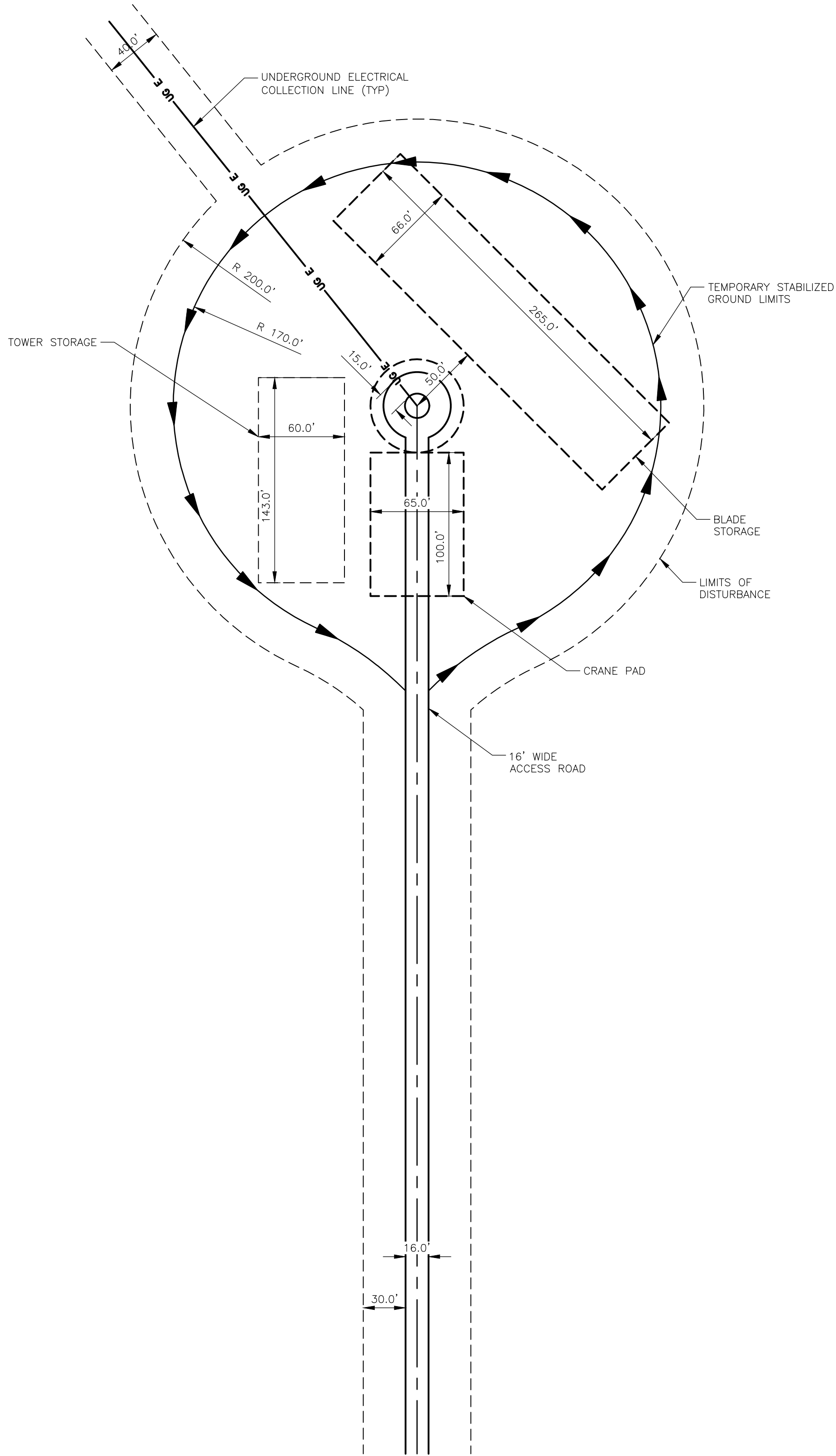
ACCESS ROAD CROSS SECTION DETAIL:
16-FT WIDE ACCESS ROAD WITH CRANE PATH
NOT TO SCALE



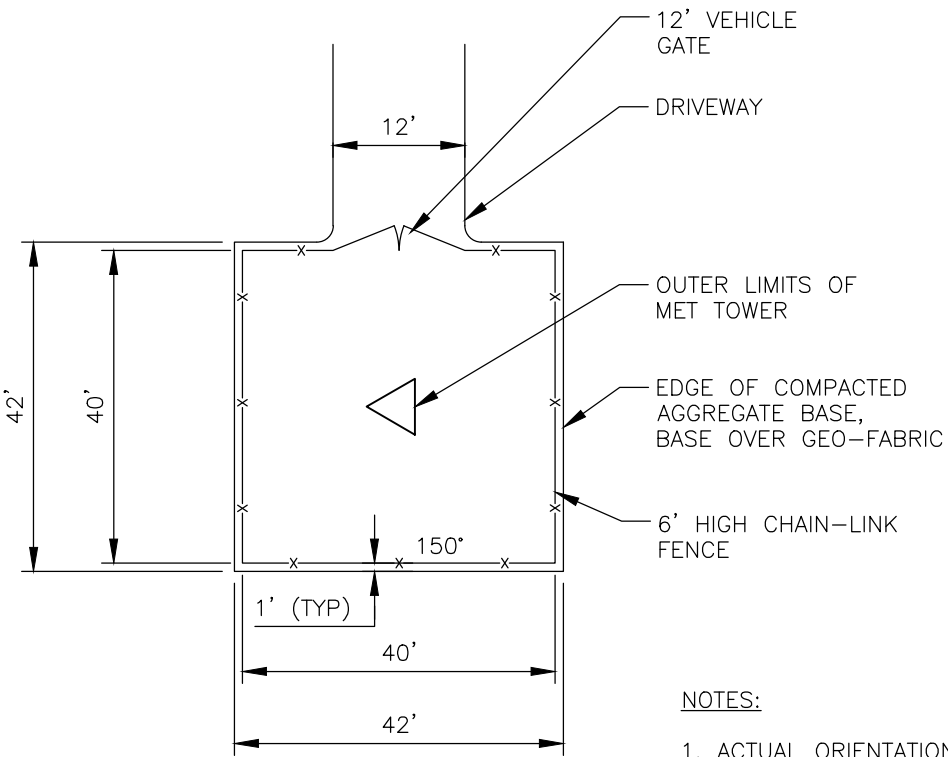
NOTES:

1. AGGREGATE TO MEET MINIMUM ELECTRICAL RESISTIVITY REQUIREMENT AS SPECIFIED IN THE ELECTRICAL PLANS AND SPECIFICATIONS.
2. ANY JUNCTION BOX ADJACENT TO A TURBINE SHALL RECEIVE A 10" WIDE APRON.

[illegible]



SITE LAYOUT TYPE "A"
NOT TO SCALE



NOTES:
1. ACTUAL ORIENTATION OF MET TOWER TO BE DETERMINED BY ENERGY ASSESSMENT.

PERMANENT MET TOWER PAD DETAIL
NOT TO SCALE

PROJECT HERITAGE WIND FARM ORLEANS COUNTY NOT FOR CONSTRUCTION	DRAWING NO. C-060	TITLE OF DRAWING CONSTRUCTION DETAILS	FISHER ASSOCIATES 185052 PROJECT MANAGER S. WILKINSON DRAWN BY DP SCALE AS SHOWN	ISSUE DATE 01/20	COPYRIGHT © 2019 FISHER ASSOCIATES, P.E., L.S., L.A., D.P.C. New York State Education Law, Section 1802(2)(b) requires that all drawings created after January 1, 2019, be signed by a professional engineer or land surveyor, to alter an item in any way. If an item bearing the seal of an engineer or land surveyor is altered, the alteration shall be noted by the engineer or land surveyor, and a specific description of the alteration.	7	DESCRIPTION	DATE	BY
						6			
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						4			
						3			
						2			
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1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
2. APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
3. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.

NOT TO SCALE

TRACKING

GROOVES WILL CATCH SEED,
FERTILIZER, MULCH AND
DECREASE RUNOFF.

NOT TO SCALE

-
- 12"
- 6"
- 6"
- 6"
- 4"
- 2"-5"
- 4"-6"
- 12"
- 6"
- 4"
- 2"-5"
- 4"-6"
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- A
- B
- C
- A
- B
- C
- CRITICAL POINTS**
- A. OVERLAPS AND SEAMS
- B. PROJECTED WATER LINE
- C. CHANNEL BOTTOM/SIDE SLOPE VERTICES
- * HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.
- ** IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED, DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH THE PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURED FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTSP CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4"-6" OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER TO SECURE BLANKETS.
5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 2"-5" (DEPENDING ON BLANKET TYPE) AND STAPLED. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE BLANKET BEING OVERLAPPED.
7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30' TO 40' INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER OVER ENTIRE WIDTH OF CHANNEL.
8. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
9. EROSION CONTROL BLANKETS INSTALLED WITHIN CHANNELS/SWALES/DITCHES SHALL BE NORTH AMERICAN GREEN SC-250 OR APPROVED EQUAL.

NOT TO SCALE

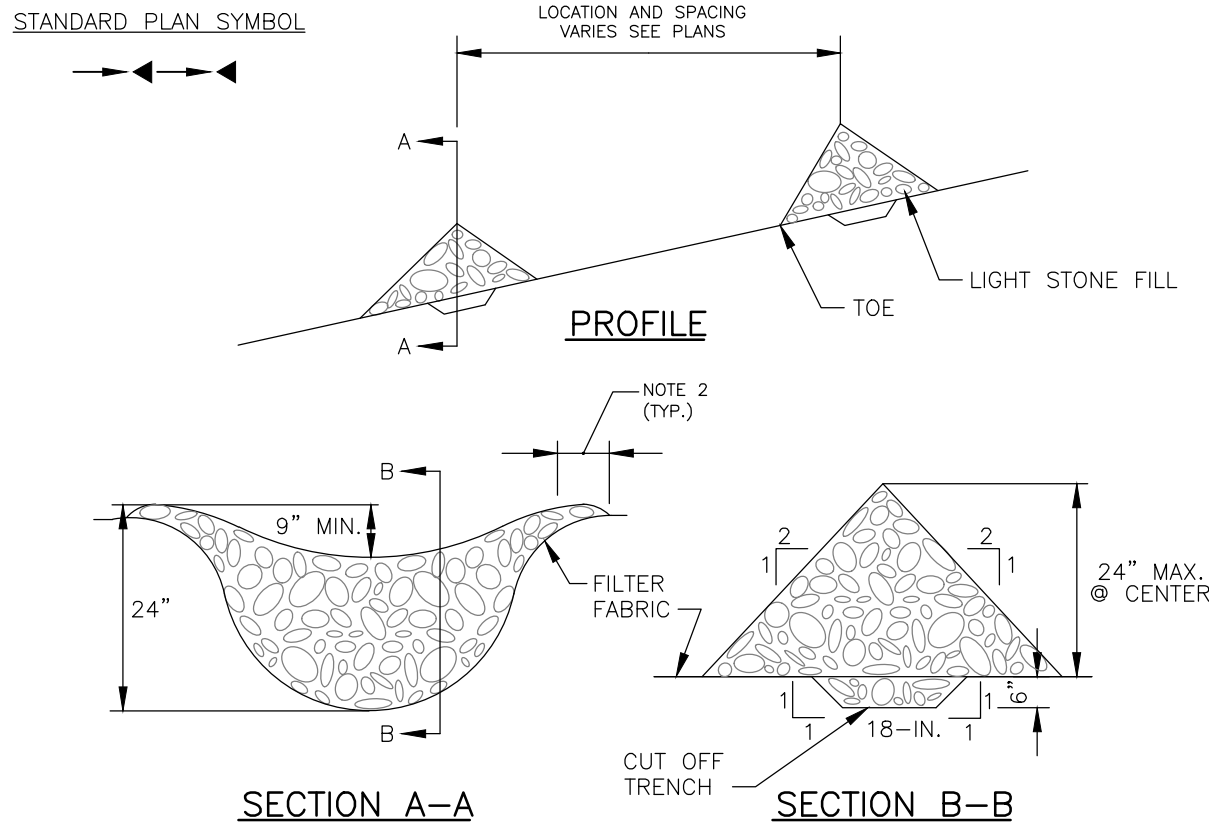
- APPLICATION NOTES:

- CONSTRUCTION SPECIFICATIONS:

- MAINTENANCE NOTES:

NOT TO SCALE

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DATE/TIME: 1/15/2020 10:44:26 AM
USER: Doug Perrotto



APPLICATION NOTES:

- CHECK DAMS SHALL BE USED TO REDUCE EROSION IN DRAINAGE CHANNEL BY RESTRICTING THE VELOCITY OF FLOW IN THE CHANNEL.
- MAXIMUM DRAINAGE AREA ABOVE THE CHECK DAM SHALL NOT EXCEED 2-ACRES.

CONSTRUCTION SPECIFICATIONS:

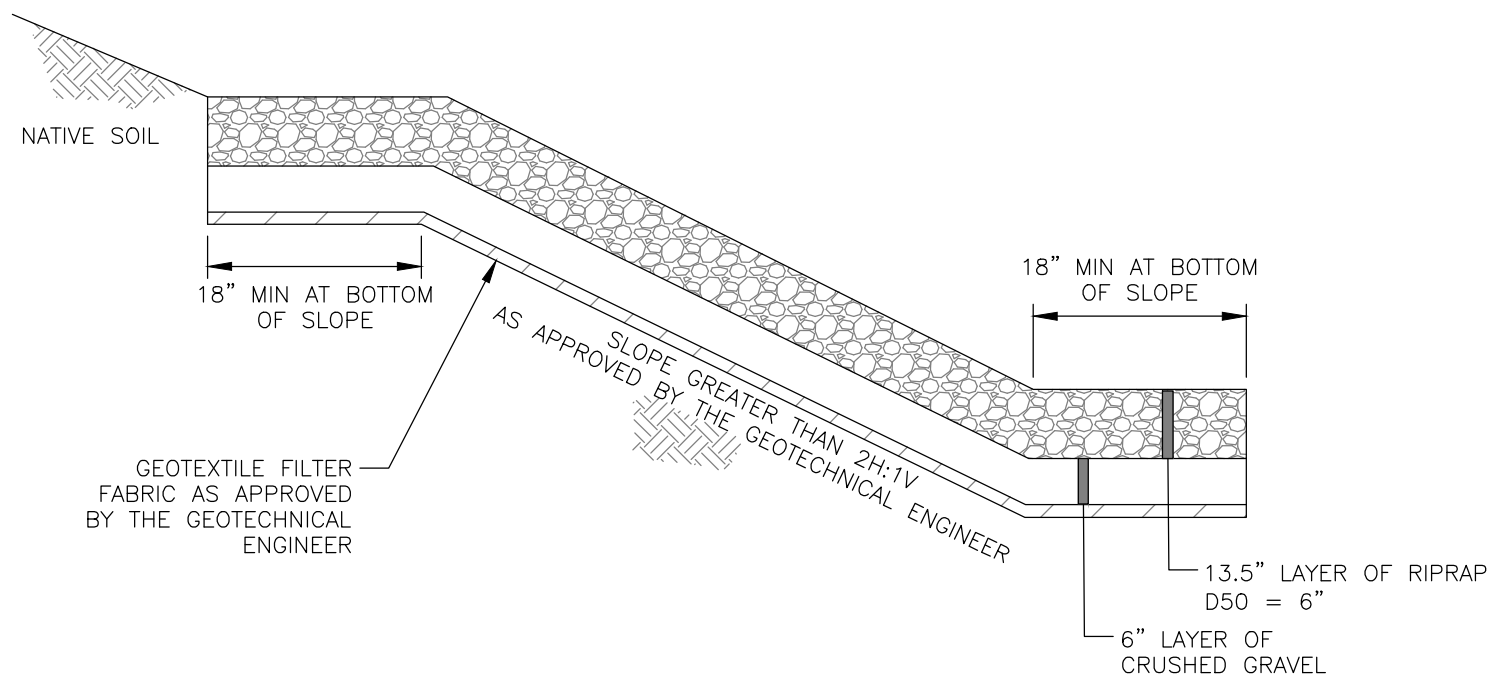
- STONE SHALL BE PLACED ON FILTER FABRIC FOUNDATION.
- EXTEND THE STONE A MINIMUM OF 1.5- FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
- PROTECT CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
- ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.

MAINTENANCE NOTES:

- INSPECT CHECK DAMS ONCE A WEEK AND AFTER RAINFALLS. REMOVE SILT FROM BEHIND DAM AS NEEDED TO PERMIT FLOW THROUGH THE DAM AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM.
- INSTALL STONE LINER IN CHANNEL UPSTREAM OF CHECK DAM IF SIGNIFICANT EROSION OCCURS.
- REPLACE STONES AS NEEDED TO MAINTAIN THE DESIGN CROSS SECTION OF THE STRUCTURES.
- UPON STABILIZATION OF THE SITE REMOVE CHECK DAMS SO AS NOT TO BLOCK STORM FLOW OR DRAINAGE.

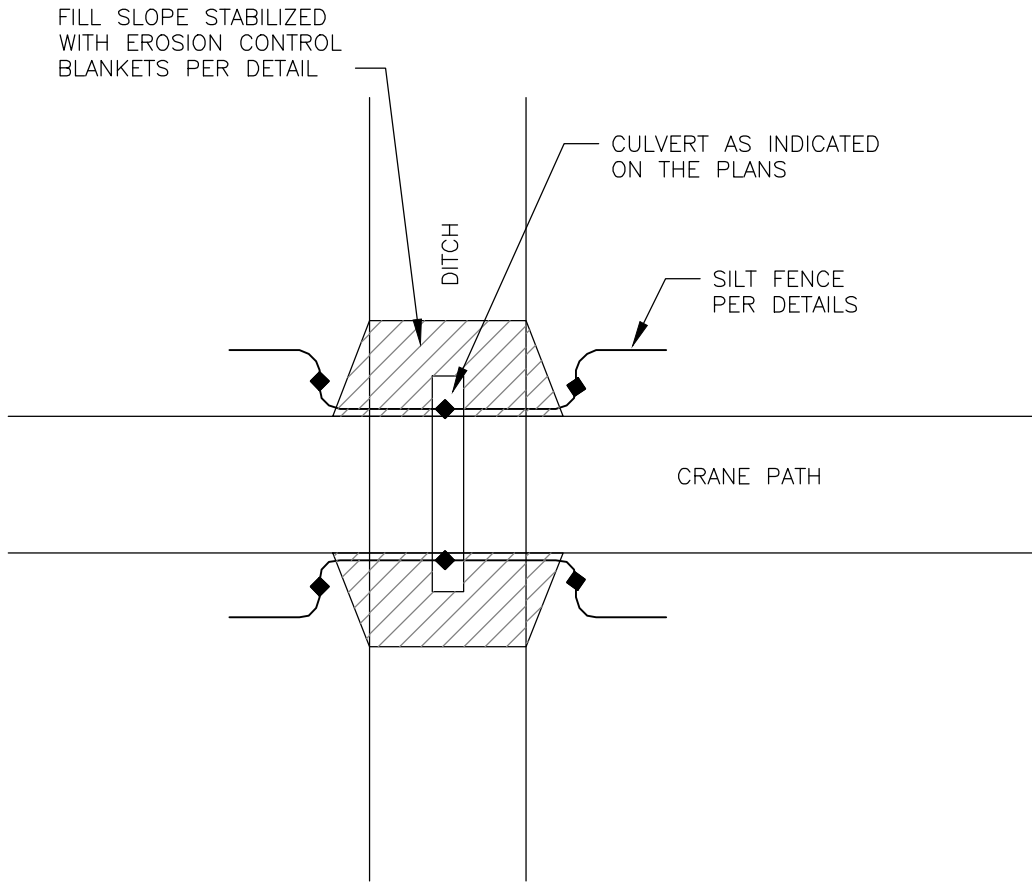
CHECK DAM DETAIL

NOT TO SCALE



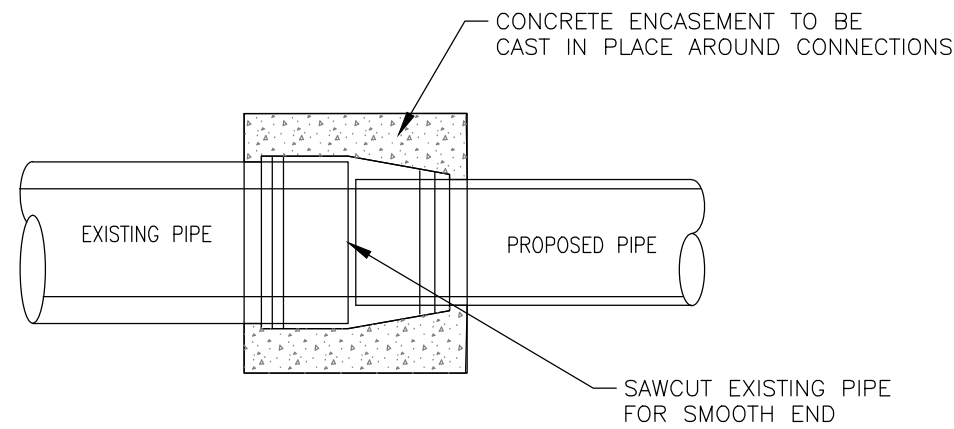
RIP-RAP SLOPE STABILIZATION DETAIL

NOT TO SCALE



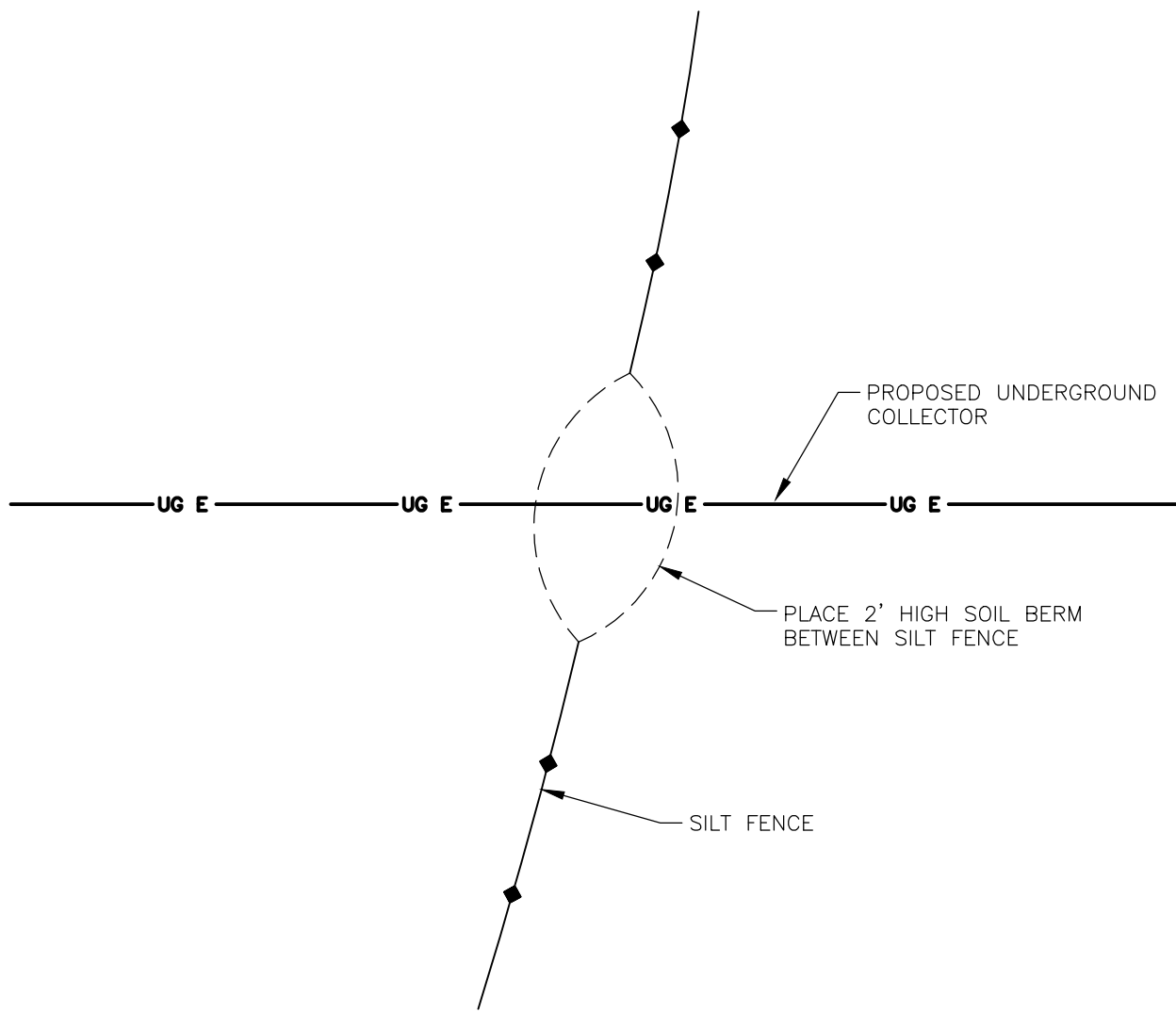
PERMANENT ACCESS ROAD AND TEMPORARY CRANE WALK DITCH CROSSING

NOT TO SCALE



CONNECT PROPOSED STORM PIPE TO EXISTING STORM PIPE

NOT TO SCALE




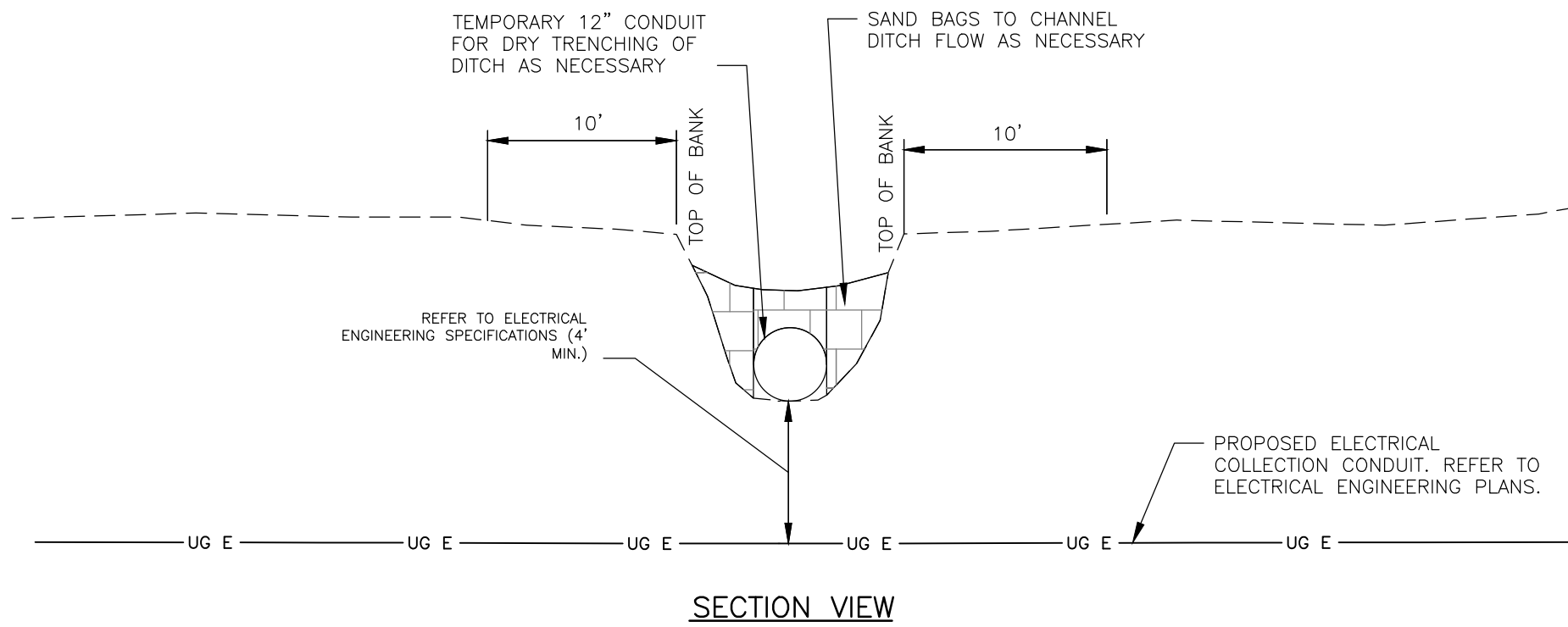
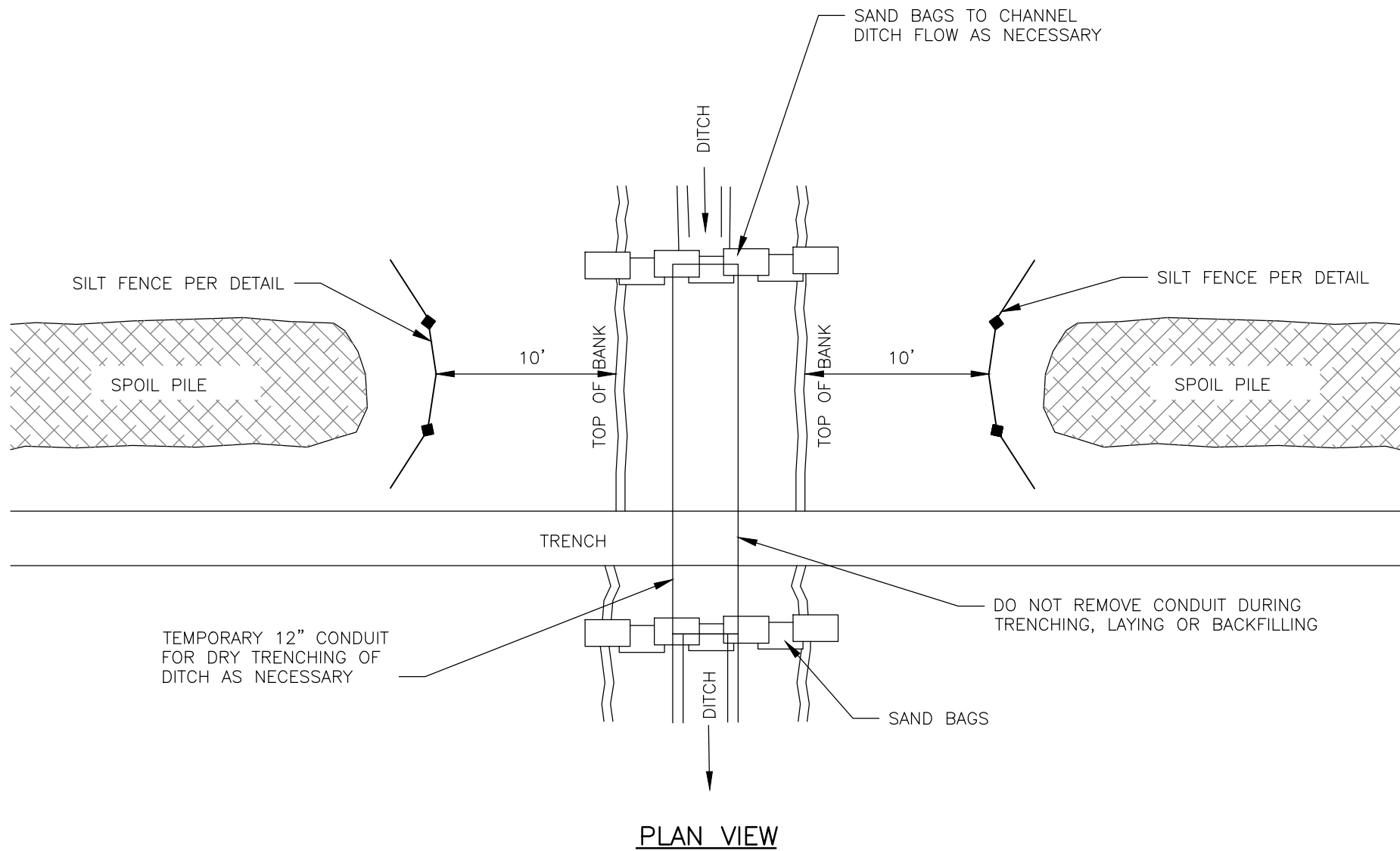
EROSION CONTROL CROSSING UNDERGROUND COLLECTION

NOT TO SCALE

NOTES:

- CULVERT INSTALLATION SHALL CONFORM WITH THE MANUFACTURERS RECOMMENDATION FOR THE INSTALLATION.
- MINIMIZE DISTURBANCE TO THE STREAM/DITCH DURING CULVERT INSTALLATION.
- RIP-RAP WITH GEOTEXTILE FABRIC MAY BE SUBSTITUTED FOR EROSION CONTROL BLANKETS WHERE NEEDED. IN STREAMS/DITCHES WITH HIGH EROSION VELOCITIES, RIP-RAP WITH GEOTEXTILE FABRIC SHALL BE SUBSTITUTED FOR EROSION CONTROL BLANKETS.
- ALL DISTURBED AREAS SHALL BE PERMANENTLY RESTORED.

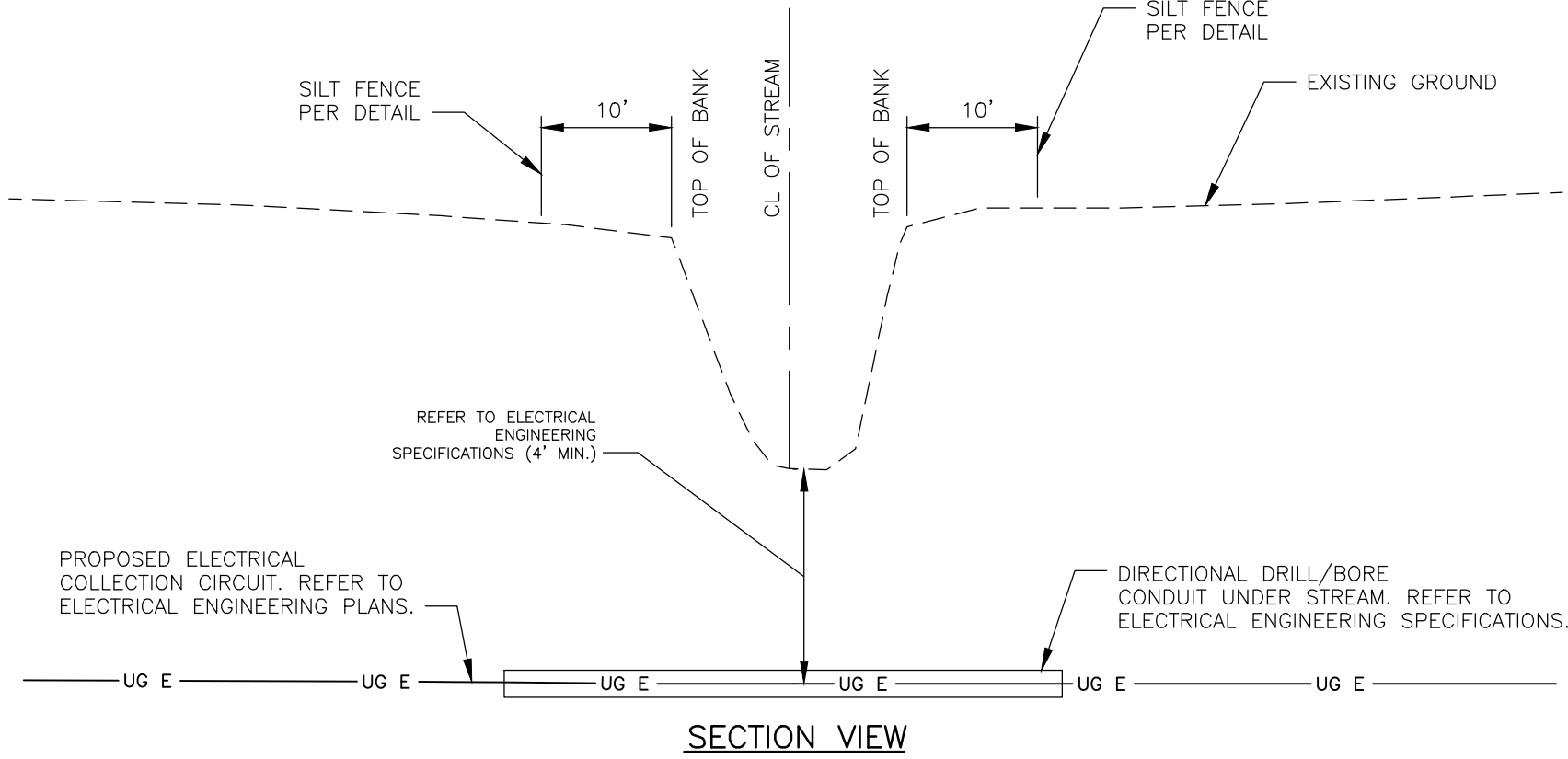
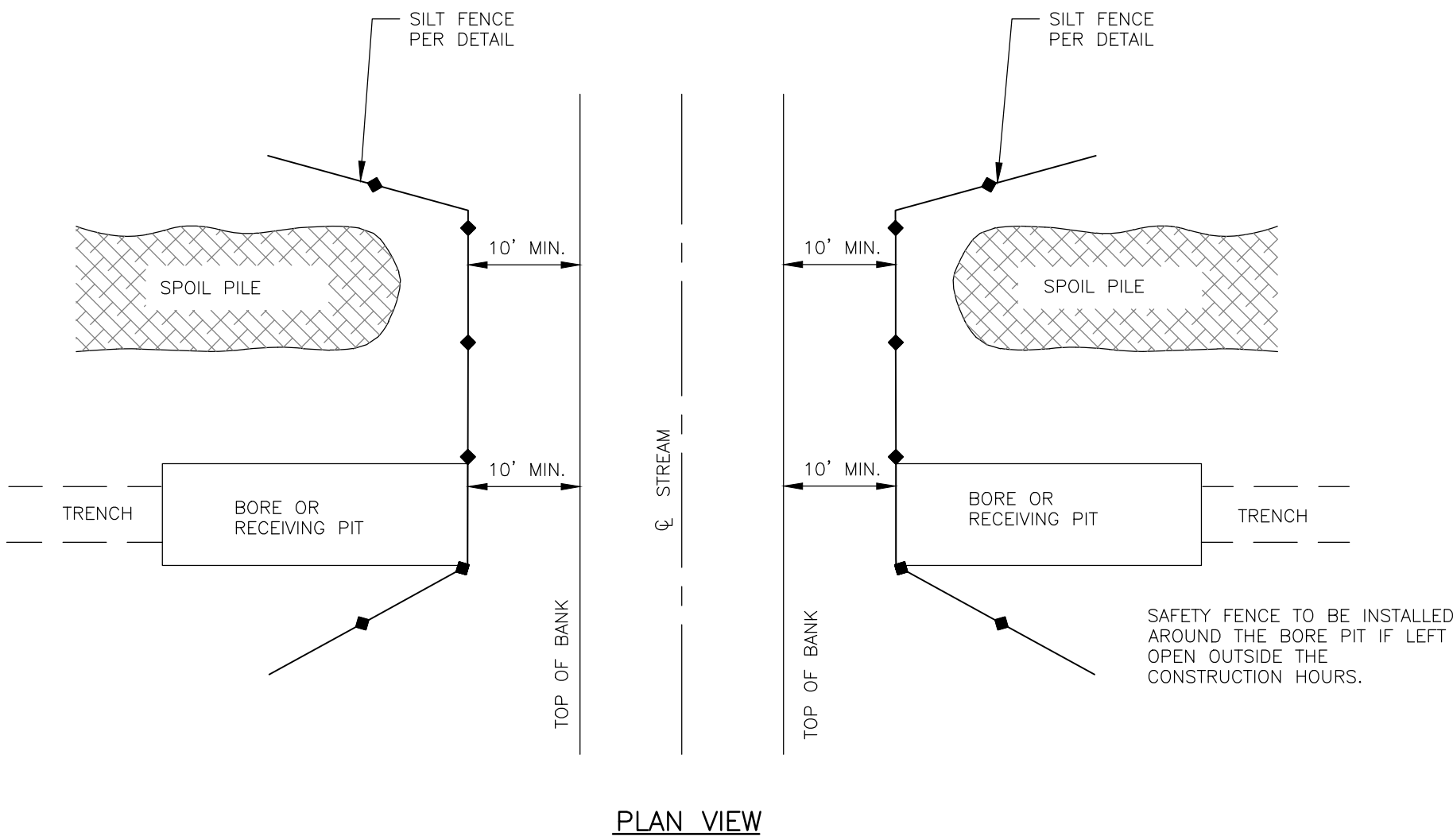
DRAWING NO.		PROJECT		FISHER ASSOCIATES		FA PROJECT NO.		COPYRIGHT © 2019 FISHER ASSOCIATES, P.E., L.S., L.A., D.P.C.		REV		DATE		BY	
C-071		HERITAGE WIND FARM ORLEANS COUNTY NOT FOR CONSTRUCTION		 FISHER ASSOCIATES WWW.FISHERASSOC.COM		185052 PROJECT MANAGER S. WILKINSON		New York State Education Law, Section 1805(2)(b) requires that it is a violation of the law for any person or firm or any of its employees to prepare or cause to be prepared any drawings or specifications for the construction of a building or structure or any part thereof, or to alter or cause to be altered any drawings or specifications, or to alter or cause to be altered any drawings or specifications, or to alter or cause to be altered any drawings or specifications, or to alter or cause to be altered any drawings or specifications, or to alter or cause to be altered any drawings or specifications, or to alter or cause to be altered any drawings or specifications, or to alter or cause to be altered any drawings or specifications, or to alter or cause to be altered any drawings or specifications, or to alter or cause to be altered any drawings or specifications, or to alter or cause to be altered any drawings or specifications, or to alter or cause to be altered any 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NOTES:

1. TEMPORARY SAND BAGS AND CONDUIT ARE TO BE INSTALLED PRIOR TO ANY CONSTRUCTION WITHIN THE LIMITS OF THE DITCH. IN THE EVENT THAT THE DITCH IS DRYING DURING CONSTRUCTION, SAND BAGS AND CONDUIT ARE NOT NECESSARY.
2. EXCAVATED TRENCH MATERIAL SHALL BE STOCKPILED ADJACENT TO THE TRENCH, NO CLOSER THAN 25' FROM THE TOP OF BANK OF THE DITCH.
3. SILT FENCE SHALL BE INSTALLED BETWEEN THE STOCKPILED MATERIAL AND THE TOP OF BANK OF THE DITCH.
4. IMMEDIATELY AFTER CONSTRUCTION IS COMPLETE, PERMANENT STABILIZATION MEASURES SHALL BE APPLIED.
5. REFER TO ELECTRICAL DESIGN FOR CONDUIT DEPTH AND TRENCH DETAILS.

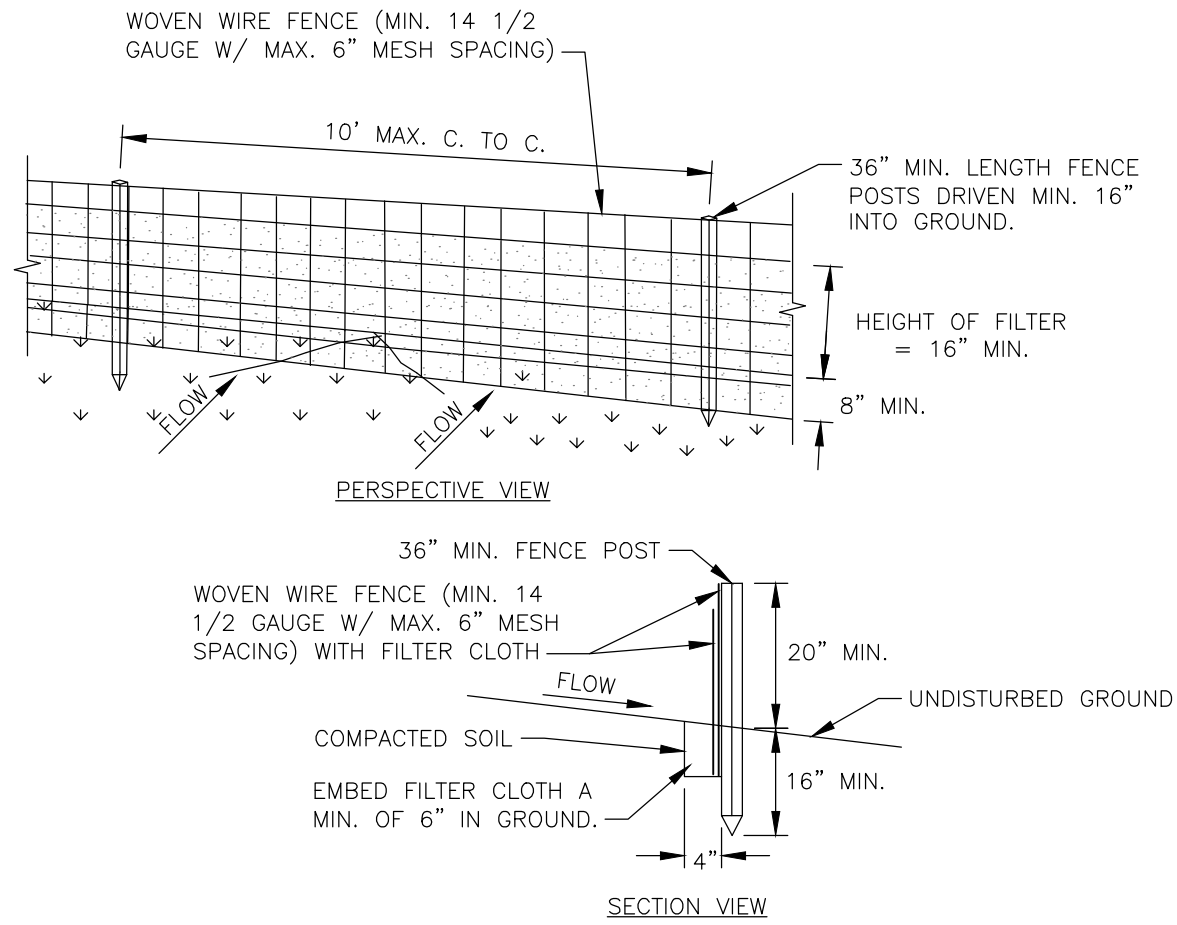
**TYPICAL EROSION CONTROL & CLEARANCE DETAIL
FOR COLLECTION LINE OPEN CUT DITCH/TILE CROSSING**
NOT TO SCALE



NOTES:

1. EXCAVATED TRENCH AND BORE/RECEIVING PIT MATERIAL SHALL BE STOCKPILED ADJACENT TO THE TRENCH, NO CLOSER THAN 10' FROM THE TOP OF BANK OF THE DITCH.
2. SILT FENCE SHALL BE INSTALLED BETWEEN THE STOCKPILED MATERIAL AND BORE/RECEIVING PIT AND THE TOP OF BANK ON BOTH SIDES OF THE STREAM.
3. IMMEDIATELY AFTER CONSTRUCTION IS COMPLETE, PERMANENT STABILIZATION MEASURES SHALL BE APPLIED.
4. THERE SHALL BE NO DISTURBANCE TO THE STREAM DURING CONSTRUCTION.
5. REFER TO ELECTRICAL DESIGN FOR CONDUIT DEPTH AND TRENCH DETAILS.

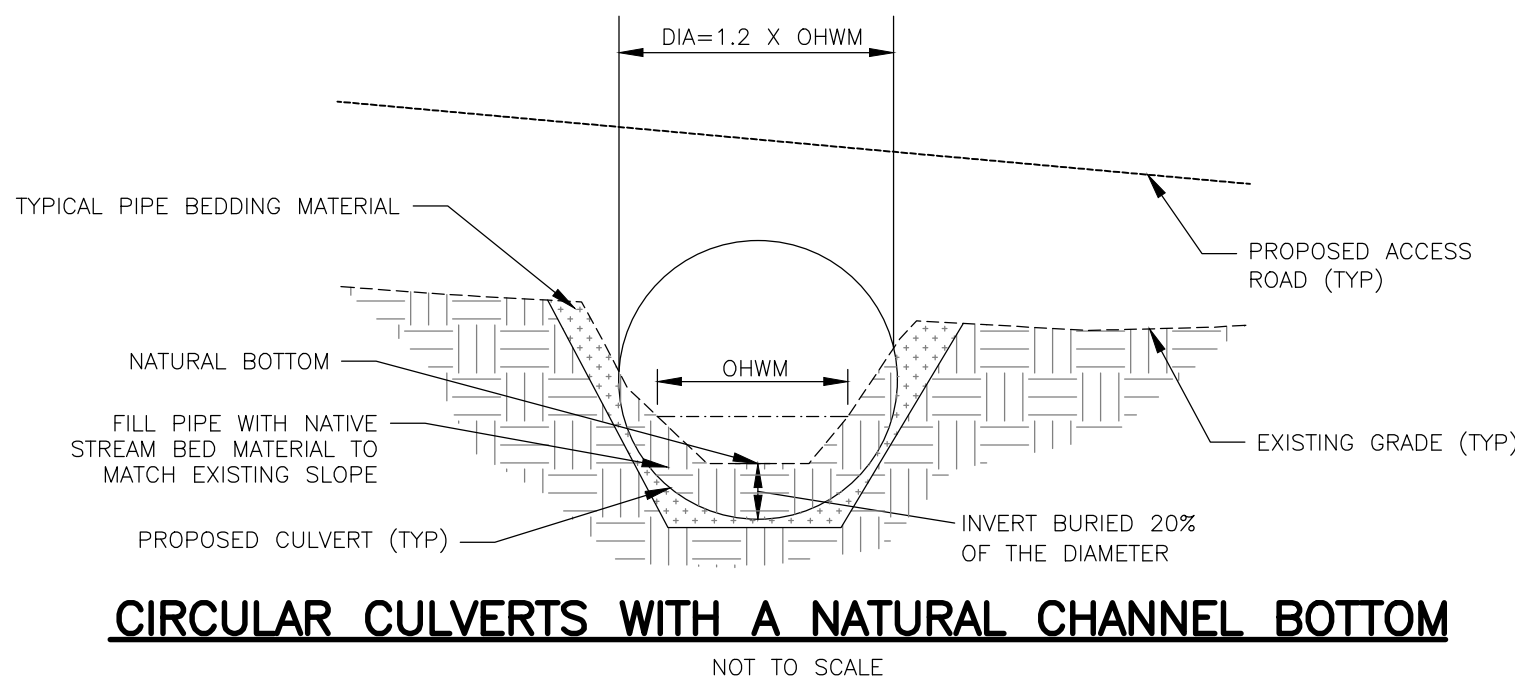
**TYPICAL EROSION CONTROL & CLEARANCE DETAIL FOR
COLLECTION LINE TRENCHLESS STREAM CROSSING**
NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. 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, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN 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.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE
NOT TO SCALE



CIRCULAR CULVERTS WITH A NATURAL CHANNEL BOTTOM
NOT TO SCALE

NOTES:

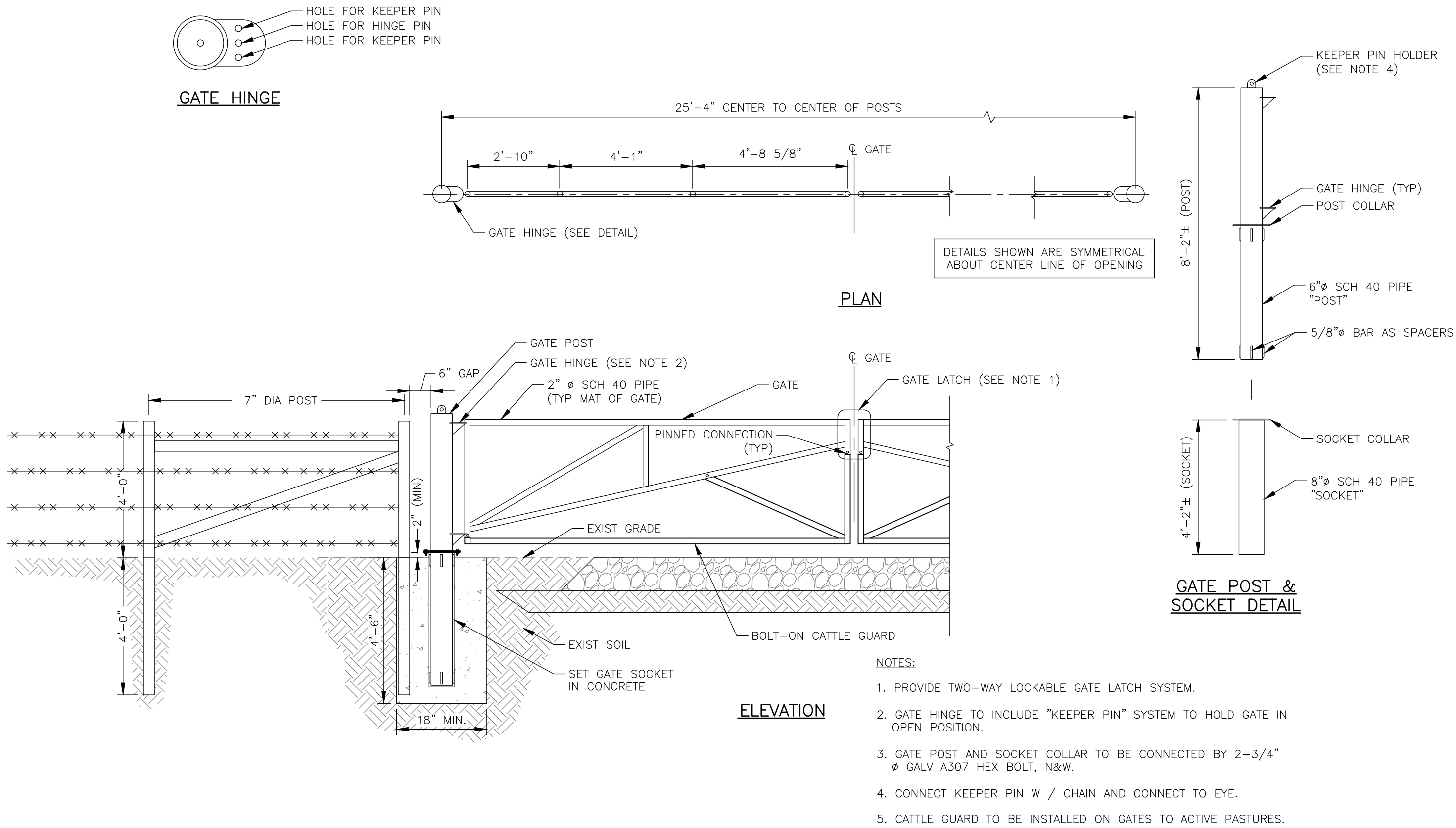
1. RIP RAP OUTLET PROTECTION NOT REQUIRED.
2. STREAM FLOW SHALL BE BYPASSED SO THAT WORK IS COMPLETED IN DRY CONDITIONS.

PROJECT		TITLE OF DRAWING		DRAWING NO.	
HERITAGE WIND FARM ORLEANS COUNTY NOT FOR CONSTRUCTION		DETAILS - E&S CONTROLS		C-073	
FA PROJECT NO.		ISSUE DATE		DATE	
185052		01/20		BY	
PROJECT MANAGER		SCALE		DESCRIPTION	
S. WILKINSON		AS SHOWN		REV	
DRAWN BY		AS SHOWN		1	
DP		AS SHOWN		2	
SCALE		AS SHOWN		3	
AS SHOWN		AS SHOWN		4	
AS SHOWN		AS SHOWN		5	
AS SHOWN		AS SHOWN		6	
AS SHOWN		AS SHOWN		7	

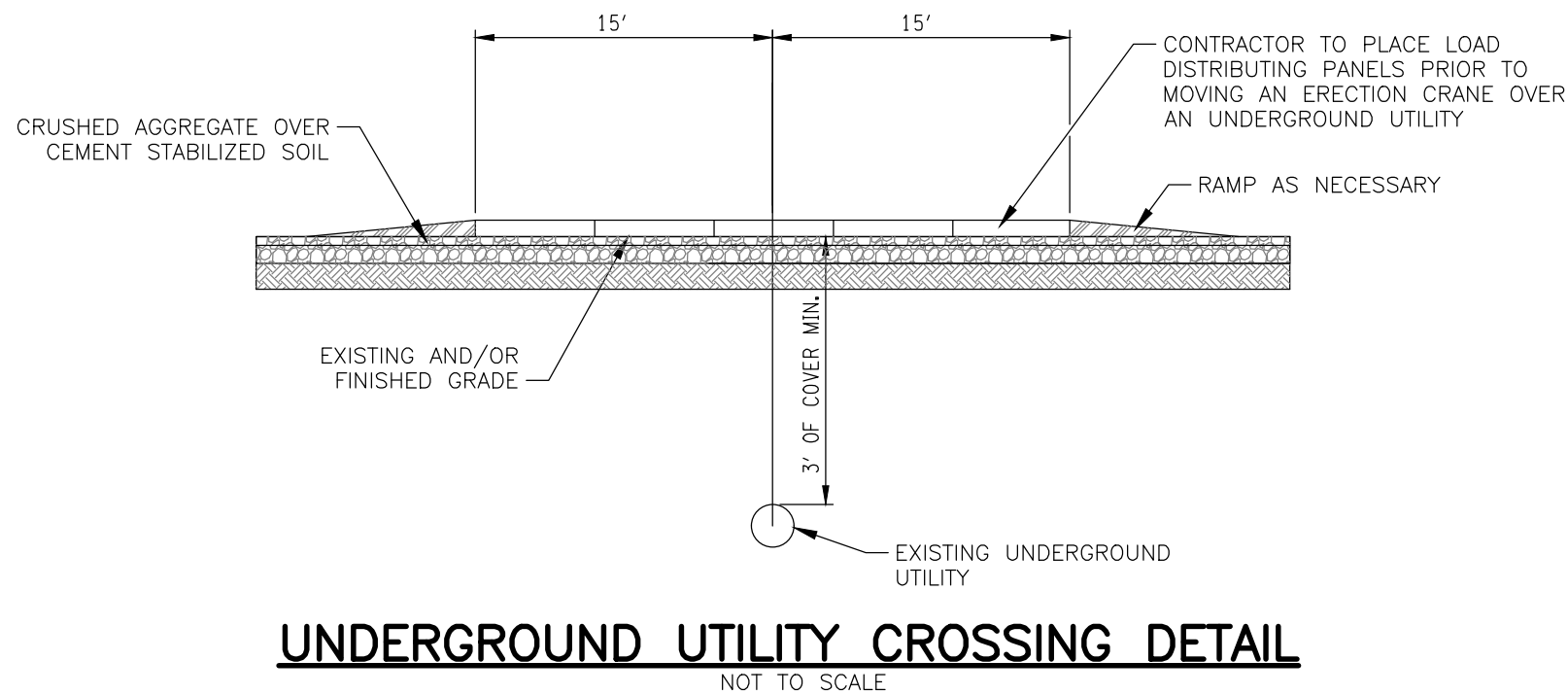
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New York State Education Law, Section 185052
This law for any person, unless by the
licensee of the State Education Department
licensed professional engineer or land
surveyor, to alter in any way,
if an item bearing the seal of said
the offering engineer or land surveyor
the notation "altered by" followed by the
alteration, and a specific description
of the alteration.

FILE NAME: H:\Projects\185052-00-Heritage_Wind_Farm\Eng\CAD\CUT\185052 - Details.dwg
DATE/TIME: 1/15/2020 10:44:31 AM
USER: Doug Perrotto

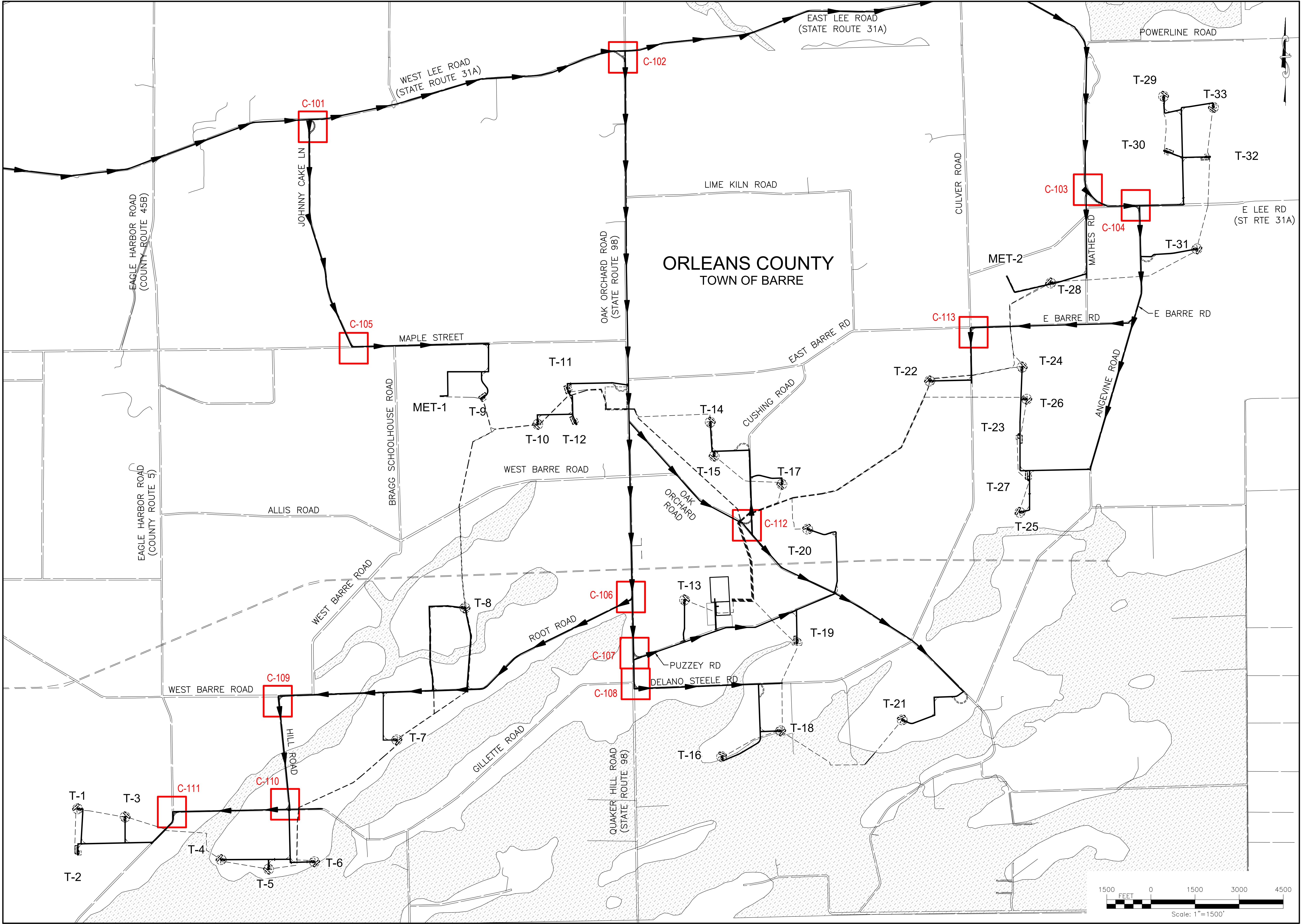


**TYPICAL ACCESS ROAD CATTLE GATE DETAIL
FOR 16-FT WIDE ACCESS ROAD**
NOT TO SCALE



DRAWING NO. C-090		PROJECT HERITAGE WIND FARM ORLEANS COUNTY NOT FOR CONSTRUCTION		TITLE OF DRAWING DETAILS	
FA PROJECT NO. 185052		PROJECT MANAGER S. WILKINSON		ISSUE DATE 01/20	
DRAWN BY DP		SCALE AS SHOWN		REV	
FISHER ASSOCIATES P.E., L.S., L.A., D.P.C.		7		DESCRIPTION	
New York State Education Law, Section 1802(2)(b) requires that all drawings be prepared by a professional engineer or land surveyor, to alter an item in any way, the drawing engineer or land surveyor must be licensed and the drawing must be signed and sealed by the drawing engineer or land surveyor, and a specific description of the alteration.		6		DATE	
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FILE NAME: H:\Projects\185052-00-Heritage_Wind_Farm\Eng\CAD\CUT\185052 - Plan Indexes.dwg
DATE/TIME: 1/15/2020 10:44:44 AM
USER: Doug Perrotto



PROJECT HERITAGE WIND FARM ORLEANS COUNTY NOT FOR CONSTRUCTION		TITLE OF DRAWING INTERSECTION IMPROVEMENT PLAN INDEX		DRAWING NO. C-100	
FISHER ASSOCIATES		FISHER ASSOCIATES		FISHER ASSOCIATES	
FA PROJECT NO. 185052		PROJECT MANAGER S. WILKINSON		ISSUE DATE 01/20	
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P.E., L.S., L.A., D.P.C.
New York State Education Law, Section 1802(2)(b) requires that the seal of a professional engineer or land surveyor be placed on all drawings prepared by or for any person, unless the seal is placed on the drawing by the professional engineer or land surveyor, to alter in any way, or to alter the meaning of, or to alter the effect of, the drawing. The seal of a professional engineer or land surveyor is required to be placed on all drawings prepared by or for any person, unless the seal is placed on the drawing by the professional engineer or land surveyor, to alter in any way, or to alter the meaning of, or to alter the effect of, the drawing.