# A Construction Drawings, Specifications, and Engineering Standards

# General Notes

## GENERAL NOTES

1. UNLESS OTHERWISE SPECIFIED BY INDIVIDUAL LANDOWNERS, THE CONTRACTOR SHALL INSTALL TEMPORARY ACCESS GATES A MINIMUM OF 50' OFF OF THE EXISTING STATE, COUNTY, AND TOWN ROADS TO CONTROL CONSTRUCTION, LIMIT SITE ACCESS, AND PROVIDE SECURITY TO THE GENERAL PUBLIC. TEMPORARY GATE TYPE AND LOCATION AS PER THE ENGINEER AND NOBLE ENVIRONMENTAL POWER.
2. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT THE EXISTING CONDITIONS SHOWN ON THE CONTRACT DOCUMENTS MAY VARY FROM ACTUAL SITE CONDITIONS. TOPOGRAPHICAL AND SUBSOIL INVESTIGATIONS TO VERIFY EXISTING FIELD CONDITIONS PRIOR TO BEGINNING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LAYOUT DIMENSIONS SHOWN ON THE PLANS AND STAKE OUT THE PROJECT TO THE SATISFACTION OF THE DESIGNATED NOBLE ENVIRONMENTAL POWER SITE REPRESENTATIVE. THE OWNER WILL PROVIDE BASELINE SURVEY INFORMATION AND ELEVATION POINTS.
4. CONTRACTOR PERSONNEL, EQUIPMENT AND MATERIALS ARE NOT ALLOWED OUTSIDE THE ESTABLISHED AREAS DEFINED BY THE DESIGNATED NOBLE ENVIRONMENTAL POWER SITE REPRESENTATIVE. ALL AREAS DISTURBED BY THE CONTRACTOR WITHOUT AUTHORIZATION BY THE DESIGNATED NOBLE ENVIRONMENTAL POWER SITE REPRESENTATIVE SHALL BE RESTORED BY THE CONTRACTOR AT HIS/HER OWN EXPENSE.
5. ALL PROPOSED ENTRANCE ROADWAY CONSTRUCTION, INCLUDING DRAINAGE AND EROSION/SEDIMENT CONTROL WORK, SHALL CONFORM TO THE LATEST SPECIFICATIONS AND STANDARDS OF OSHA, MUTCD, ASHTO, NYSDOT, AND ASTM.
6. REMOVE ALL TREES, STUMPS AND OTHER VEGETATION THAT CONFLICTS WITH PROPOSED GRADING AT THE DIRECTION OF THE DESIGNATED NOBLE ENVIRONMENTAL POWER SITE REPRESENTATIVE.
7. TOPOGRAPHIC MAPPING IS BASED ON HORIZONTAL DATUM NAD 83 (94) NEW YORK STATE PLANE WEST ZONE – U.S. FOOT.
8. THE CONTRACTOR SHALL GRADE THE PROPOSED ROADWAYS AND CONFORM TO THE DESIGN AS SHOWN ON THE ROADWAY PLANS AND STANDARD DETAILS.
9. ROADWAY CENTERLINES AND PROPERTY LINES ARE BASED ON DELINEATED CORRIDORS DETERMINED FROM LANDOWNERS PREFERENCE, AVOIDANCE OF SENSITIVE NATURAL AREAS AND ENGINEERING JUDGMENT AS DISCUSSED WITH NOBLE ENVIRONMENTAL POWER, L.L.C. AND RECEIVED IN FEBRUARY 2008.
10. THE LOCATION OF EXISTING UNDERGROUND AND OVERHEAD UTILITIES ARE APPROXIMATE AND ARE NOT NECESSARILY COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATIONS OF ALL UTILITIES BEFORE COMMENCING EXCAVATION. PRIOR TO ANY EXCAVATION, THE CONTRACTOR IS TO CONTACT 'DIG SAFE NY' AT TELEPHONE NUMBER 1-800-962-7962 TO COORDINATE ANY AND ALL UTILITY WORK. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND HAVE THEM FIELD MARK ALL UTILITIES IN THE AREA OF CONSTRUCTION. HAND EXCAVATION SHALL BE EMPLOYED NEAR EXISTING UTILITIES. IF THE AFFECTED COMPANIES SO INDICATE, WORK SHALL NOT PROGRESS UNLESS THEIR INSPECTORS ARE PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL UTILITIES.
11. THE PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. PROPOSED DEVIATIONS FROM THE APPROVED PLANS AND SPECIFICATIONS OTHER THAN MINOR FIELD CHANGES MUST BE SUBMITTED TO THE ENGINEER IN WRITING FOR REVIEW AND APPROVAL. NO CHANGES SHALL BE MADE WITHOUT PROPER AUTHORIZATION FROM THE ENGINEER AND/OR NOBLE ENVIRONMENTAL SITE REPRESENTATIVE.
12. THE ALLOWABLE TOLERANCES FROM FINISH GRADE AND ELEVATIONS SHOWN ON THE DRAWINGS SHALL BE:
    1. TO THE NEAREST 0.01 FOOT, PLUS OR MINUS WHEN SHOWN IN HUNDREDTHS OF A FOOT
    2. TO THE NEAREST 0.05 FOOT, PLUS OR MINUS WHEN SHOWN IN TENTHS OF A FOOT
    3. TO THE NEAREST 0.2 FOOT, PLUS OR MINUS WHEN SHOWN IN FEET.
13. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION PROCEDURES FROM START TO FINISH WITH ALL APPROPRIATE PUBLIC AGENCIES, ANY UTILITY COMPANY AND OTHER PRIVATE CONTRACTOR(S) THAT MAY BE WORKING IN THE PROJECT AREA AND SHALL ADVISE THE ENGINEER IMMEDIATELY OF ANY PROBLEMS ENCOUNTERED DURING CONSTRUCTION.
14. ALL DEBRIS SHALL BE DISPOSED OFF SITE AT LOCATION(S) PROVIDED BY THE CONTRACTOR.
15. CONTRACTOR SHALL SCHEDULE ALL OPERATIONS SUCH THAT INTERRUPTION OF PUBLIC SERVICES IS MINIMIZED AND SHALL BE RESPONSIBLE FOR RESTORATION OF ANY DISRUPTED SERVICES OR FACILITIES.
16. THE CONTRACTOR SHALL RESTORE THE PROJECT SITE TO THE SAME OR SUPERIOR CONDITION WHICH EXISTED PRIOR TO CONSTRUCTION.
17. NO CONSTRUCTION SHALL BEGIN UNTIL ALL NECESSARY PERMITS AND APPROVALS HAVE BEEN RECEIVED.
18. CERTIFIED AS-BUILT RECORD DRAWINGS WILL BE PROVIDED BY NOBLE ENVIRONMENTAL POWER AND SUBMITTED TO THE TOWN ENGINEER WITHIN 45 DAYS OF COMPLETION OF CONSTRUCTION FOR THE FINAL 16' WIDE MAINTENANCE ACCESS ROADWAY.
19. NO EQUIPMENT, MATERIAL AND/OR PRIVATE VEHICLES SHALL BE STORED OVERNIGHT WITHIN 30 FEET OF THE ROADWAY TRAVEL LANES.

## EXCAVATION NOTES

20. EXCESS SUBSOIL THAT IS NOT TO BE REUSED ON SITE SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF IN ACCORDANCE WITH NEW YORK STATE ENVIRONMENTAL STANDARDS AND APPROVED DOCUMENTED LOCATION BY THE DESIGNATED NOBLE ENVIRONMENTAL POWER SITE REPRESENTATIVE.
21. UNDER NO CONDITION SHALL EXCESS SOIL BE USED TO FILL WETLANDS AND UNDER NO CIRCUMSTANCE WILL CONTRACTOR PERSONNEL, MATERIAL, AND EQUIPMENT BE ALLOWED OUTSIDE THE ESTABLISHED LIMITS OF WORK AS DEFINED BY THE DESIGNATED NOBLE ENVIRONMENTAL POWER SITE REPRESENTATIVE.
22. EXCESS TOPSOIL SHALL REMAIN ON SITE AT A STOCKPILED AREA DETERMINED BY THE DESIGNATED NOBLE ENVIRONMENTAL POWER SITE REPRESENTATIVE AT THE END OF THE PROJECT.
23. TOPSOIL AND SUBSOIL SHALL NOT BE MIXED. TOPSOIL THAT IS MIXED WITH UNSUITABLE SOIL WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
24. THE DEPTH OF THE EXISTING TOPSOIL HAS BEEN FOUND TO VARY FROM 6 TO 18 INCHES.

## ROADWAY NOTES:

25. MODIFICATIONS TO ROADWAY DESIGN MAY BE REQUIRED TO MATCH FIELD CONDITIONS.
26. MAINTAIN EXISTING DRAINAGE COURSE ALONG ALL STATE, COUNTY, AND TOWN ROADS.
27. TOPSOIL MUST BE STOCKPILED IN AREAS APPROVED BY THE NOBLE ENVIRONMENTAL SITE REPRESENTATIVE.
28. THE CONTRACTOR SHALL MAINTAIN ALL STABILIZED CONSTRUCTION ENTRANCEWAYS. THE PURPOSE OF A STABILIZED CONSTRUCTION ENTRANCEWAY IS TO REDUCE OR ELIMINATE THE TRACKING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY OR STREETS. SEE DETAIL ON SD-3. REFER TO THE APPROVED BALL HILL WIND FARM SWPPP FOR STONE DEPTH AND FINAL LOCATION.
29. A 30' WASH AREA SHALL BE PROVIDED. ADDITIONAL GRADING MAY BE REQUIRED TO PROVIDE WASHING AREAS. REFER TO THE APPROVED BALL HILL WINDPARK SWAPP.
30. ALL PROPOSED DRAINAGE PIPES HAVE BEEN DESIGNED BY THE ENGINEER WITH SUFFICIENT CAPACITY TO CARRY PEAK FLOWS GENERATED BY A STORM EVENT UP TO THE 10 YEAR STORM. ALTERNATIVE WAYS OF CONVEYING DITCH FLOW ACROSS CONSTRUCTION ENTRANCES MAY BE DESIGNED BY THE CONTRACTOR WITH THE APPROVAL OF THE ENGINEER PRIOR TO CONSTRUCTION.
31. THE CONTRACTOR SHALL GRADE TO PREPARE ORIGINAL SUBGRADE FOR PLACEMENT OF A MINIMUM OF 12" (SECTION 304) AGGREGATE ROADWAY ON TENSAR BX1200 (OR APPROVED EQUAL) MATERIAL. THE AGGREGATE SHALL MEET THE EDGE OF EXISTING PAVEMENT. ADDITIONAL AGGREGATE MATERIAL MAY BE REQUIRED BASED ON SUBGRADE STABILITY, AND LESS AGGREGATE MAY BE REQUIRED IF ROCK LEDGE IS ENCOUNTERED. REFER TO SPECIFICATION 304-3.02
32. IF PROOF ROLLING IS NECESSARY, THE SUBGRADE SHALL BE PROOF ROLLED ACCORDING TO NEW YORK STATE DEPARTMENT OF TRANSPORTATION SPECIFICATION SECTION 203-3.13 AND 203-3.14.
33. IF COMPACTION IS NECESSARY, THE SUBGRADE SHALL BE COMPACTED ACCORDING TO SPECIFICATION SECTION 203-3.12.
34. THE CONTRACTOR SHALL IDENTIFY AREAS WHERE RUTTING AND SOIL SETTLEMENT/HEAVING HAVE TAKEN PLACE UNDER THE WEIGHT OF CONSTRUCTION EQUIPMENT. THE CONTRACTOR SHALL NOTIFY THE NOBLE ENVIRONMENTAL SITE REPRESENTATIVE AND PLACE AN ADDITIONAL 6" OF AGGREGATE ON ROADWAY, OR SUBMIT A METHOD OF STABILIZATION TO THE NOBLE ENVIRONMENTAL SITE REPRESENTAITVE FOR APPROVAL.
35. GEOTEXTILE SEPARATOR TO BE USED TO PREVENT MIXING OF AGGREGATE WITH ROADWAY SUBGRADE WHERE REQUIRED. ALL GEOTEXTILE SEPARATOR LOCATIONS TO BE APPROVED BY THE ENGINEER.
36. GEOGRID TO BE TENSAR GEOGRID MODEL BX1200 OR APPROVED EQUAL.
37. ADDITIONAL EXCAVATION IN ADDITION TO THE TOPSOIL REMOVAL MAY BE REQUIRED IN CUT SECTIONS IN ORDER TO PROVIDE THE REQUIRED ROADWAY AGGREGATE DEPTHS.
38. REMOVAL OF UNSUITABLE MATERIALS: AFTER THE COMPLETION OF CLEARING AND GRUBBING, THE CONTRACTOR SHALL REMOVE ANY TOPSOILS AND SOD FROM THE SUBGRADE. UNSUITABLE MATERIALS OTHER THAN SOD AND TOPSOIL SHALL BE REMOVED TO A DEPTH OF ONE FOOT +/- BELOW THE BOTTOM OF SUBGRADE.

## DRAINAGE NOTES:

39. EACH DRAINAGE DITCH SHALL BE RE-SHAPED AFTER THE PROPOSED ENTRANCE ROADWAY IS CONSTRUCTED AS REQUIRED BY THE ENGINEER TO PROVIDE A SMOOTH FLOW TRANSITION THROUGH THE PROJECT AREA.
40. CONTRACTOR SHALL NOT EXCEED THE MAXIMUM 3% CROSS SLOPE ALONG THE PROPOSED ENTRANCE ROADWAY TO PROVIDE ADEQUATE DRAINAGE SURFACE FLOW OFF THE ROADWAY. FINAL CROSS SLOPES SHALL BE APPROVED BY THE ENGINEER.
41. EXISTING DRAINAGE DITCHES SHALL BE REGRADED TO ATTAIN POSITIVE DRAINAGE FLOW AS REQUIRED AND AS DIRECTED BY THE ENGINEER.
42. ALL ARCH AND ROUND PIPES SHALL BE CONTECH SMOOTH COR CMP OR APPROVED EQUAL.
43. IN AREAS WHERE THE GROUNDWATER TABLE IS NEAR THE SUBGRADE, THE CONTRACTOR SHALL PROVIDE MEANS AND METHODS TO LOWER THE GROUNDWATER. THE MEANS AND METHODS SHALL AVOID DISTURBING AND UNDERMINING THE SUBGRADE.

## EROSION CONTROL STAGING NOTES

44. THE PARAMETERS OF THE SWPPP AND WETLANDS PERMIT WILL DICTATE THE MEASUREMENTS OF CONTROL THAT THE CONTRACTOR WILL UTILIZE FOR THIS CONTRACT. SWPPP AND WETLAND PERMITS SHALL BE PROVIDED BY NOBLE ENVIRONMENTAL POWER.

## MAINTENANCE AND PROTECTION OF TRAFFIC NOTES

45. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE NEW YORK STATE D.O.T. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. CONTRACTOR SHALL DEVELOP AND FOLLOW MAINTENANCE AND PROTECTION OF TRAFFIC DEVICES PROCEDURES WITH TOWN HIGHWAY SUPERVISOR DIRECTION AND GUIDELINES SHOWN ON DRAWING NUMBER MPT-1.

## TURBINE STAGING AREA NOTES

46. ALL TURBINE STAGING AREAS SHALL BE A MAXIMUM OF 300' x 300' SQUARE. THE PURPOSE OF THIS AREA IS FOR LAYING OUT EQUIPMENT, TURBINE ROTOR ASSEMBLY, AND STOCKPILING TOPSOIL.
47. WITHIN THE 300' x 300' STAGING AREA, AN APPROXIMATELY 200' x 200' SQUARE AREA WILL BE CLEARED AND GRADED TO A SLOPE OF 5% OR LESS TO FACILITATE THE LAYOUT OF TURBINE COMPONENTS. DISTURBANCE OUTSIDE OF THIS 200' x 200' SQUARE AREA WILL GENERALLY BE LIMITED TO SELECTIVE TREE CUTTING NECESSARY FOR ROTOR ASSEMBLY AND STORAGE OF EXCESS TOPSOIL, SUBSOIL OR WOODY MATERIAL INCLUDING ROOTS, LOGS, AND/OR WOOD CHIPS.
48. THE TURBINE STAGING AREA SHALL BE GRADED TO FACILITATE DRAINAGE AND PREVENT PONDING.
49. CRANE PADS SHALL BE 120' x 40'.
50. CRANE PAD LOCATIONS INDICATED ON THE PLANS ARE APPROXIMATE. FINAL CRANE PAD DESIGN AND LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR FOR APPROVAL BY THE DESIGNATED NOBLE SITE REPRESENTATIVE BASED ON FIELD CONDITIONS.

## ABBREVIATIONS

ELEV. – ELEVATION
PRC. – POINT OF REVERSE CURVE
TYP. – TYPICAL
L – LEFT
R – RIGHT
PT – POINT OF TANGENT
PCC – POINT OF COMPOUND CURVE
PC – POINT OF CURVE
R.O.W. – RIGHT OF WAY
V.C. – VERTICAL CURVE
CL – CLASS
STA. – STATION
N – NORTH
S – SOUTH
E – EAST
W – WEST
TEMP. – TEMPORARY
BLDG. – BUILDING
RDWY. – ROADWAY
INV. – INVERT
EXIST. – EXISTING
NO. – NUMBER
PGL – PROFILE GRADE LINE
PI – POINT OF INTERSECTION
MAX – MAXIMUM
MIN – MINIMUM
CMP – CORRUGATED METAL PIPE
DIA – DIAMETER
LF – LINEAR FEET
INV – INVERT ELEVATION
TYP – TYPICAL
℄ – CENTER LINE

NOT FOR CONSTRUCTION

PRELIMINARY PLANS
07-21-08

| REV | DATE | DESCRIPTION |
|---|---|---|
| - | | |

DRAWN BY C. BLANCHETTE
CHECKED BY N. PAGAN
RESP. ENGR. J. WASSERMAN
CHIEF DISC. ENGR. T. ELSROTH
PROJECT MANAGER M. PACY

DRAWN | CHECKED | RESP. ENGR. | CH.DISC.ENG. | PROJ. MGR.

DMJM HARRIS | AECOM

CLIENT/PROJECT TITLE
Noble ENVIRONMENTAL POWER

DEPT. | NO.

BALL HILL WINDPARK PROJECT

GENERAL NOTES

SCALE AS SHOWN

DRAWING GN-1 | REV

ARCH HVAC I & C ELECT MECH CIVIL STRUC

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| 101 | MAINTENANCE & PROTECTION OF TRAFFIC – 1 | MPT–1 | 7–21–08 | | | | |
| 102 | ROADWAY SITE DETAILS – 1 | SD–1 | 7–21–08 | | | | |
| 103 | ROADWAY SITE DETAILS – 2 | SD–2 | 7–21–08 | | | | |
| 104 | ROADWAY SITE DETAILS – 3 | SD–3 | 7–21–08 | | | | |
| 105 | ROADWAY SITE DETAILS – 4 | SD–4 | 7–21–08 | | | | |
| 106 | ROADWAY SITE DETAILS – 5 | SD–5 | 7–21–08 | | | | |
| 107 | ROADWAY SITE DETAILS – 6 | SD–6 | 7–21–08 | | | | |
| 108 | ROADWAY SITE DETAILS – 7 | SD–7 | 7–21–08 | | | | |
| 109 | ROADWAY SITE DETAILS – 8 | SD–8 | 7–21–08 | | | | |
| 110 | ROADWAY SITE DETAILS – 9 | SD–9 | 7–21–08 | | | | |
| 111 | ROADWAY SITE DETAILS – 10 | SD–10 | 7–21–08 | | | | |

NOT FOR CONSTRUCTION

PRELIMINARY PLANS
07-21-08

| REV | DATE | DESCRIPTION |
|---|---|---|

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DMJM HARRIS | AECOM

CLIENT/PROJECT TITLE
Noble ENVIRONMENTAL POWER

DEPT. | NO.

BALL HILL WINDPARK PROJECT

**DRAWING INDEX**

SCALE AS SHOWN

DRAWING DI–1 | REV

ARCH HVAC I & C ELECT MECH CIVIL STRUC