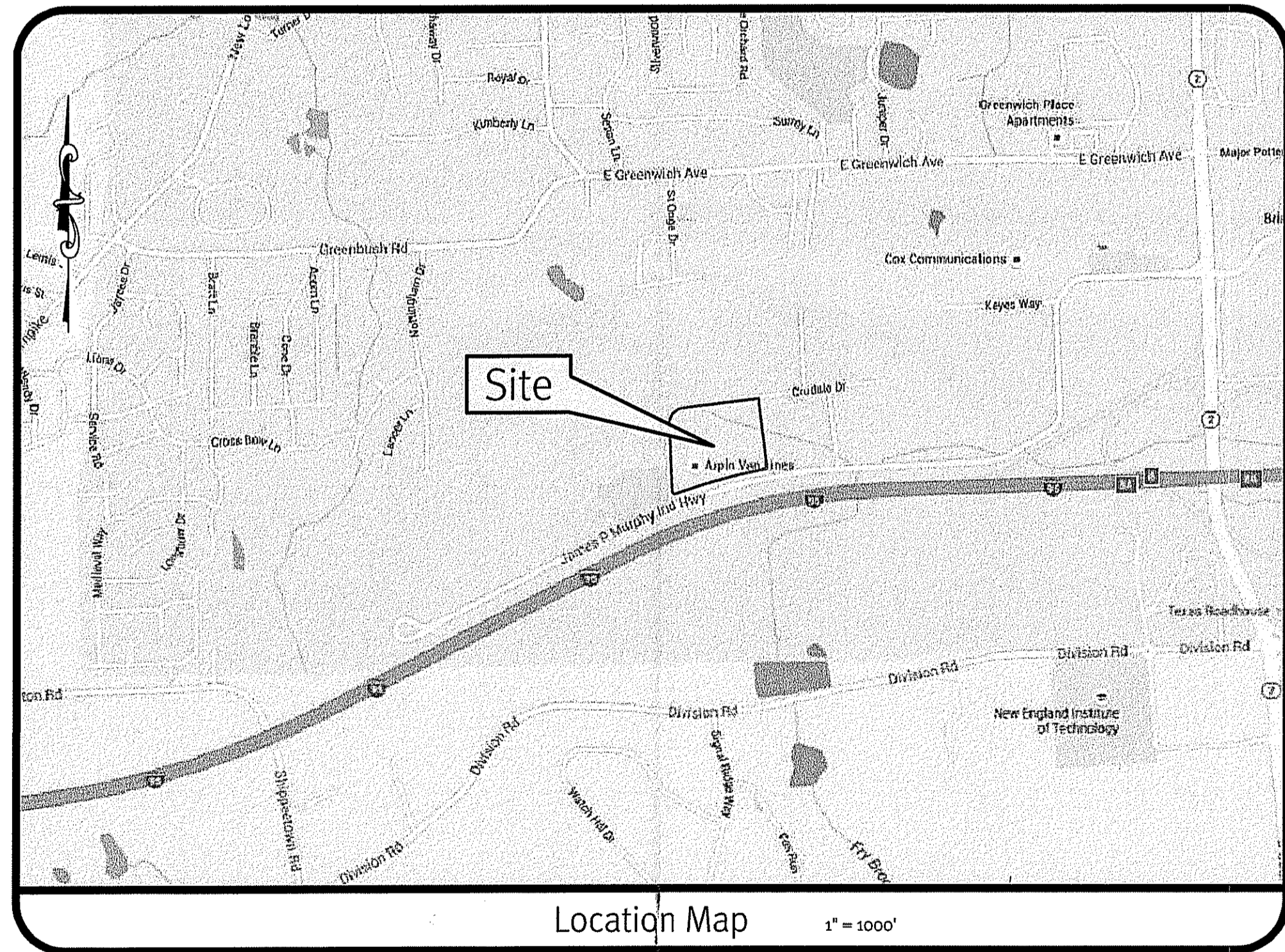


Master Plan/RIDEM Preliminary Determination

James P. Murphy Highway Wind Energy

West Warwick, Rhode Island
Assessor's Plat 12 Lot 331



Sheet Index

- Co.0 Cover Sheet
- Co.1 Aerial Half Mile Radius Plan
- C1.0 Topographic Survey (Sheet 1 of 1)
- C2.0 Site Plan
- C3.0 Detail Sheet

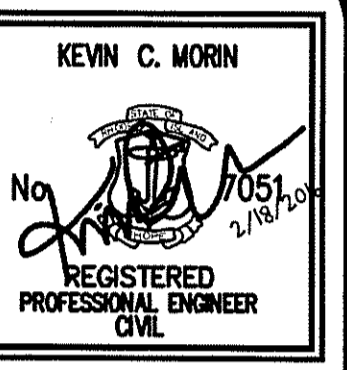
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 2 2016 FILE # 16-0015
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Hallett

FEB 19 2016

SESC
The Soil Erosion and Sediment Control Plan (SESC) is a required document with this plan set and must be maintained by the contractor and owner onsite.



This regulatory submission set shall not be used for construction purposes unless stamped, issued for construction and signed by a DiPrete Engineering representative.
The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

No.	Date	Description	Drawn By: D.R.N.	Design By: K.C.M.
1	2-18-2016	Response to Comments, Master Plan/RIDEM	D.R.N.	
0	1-20-2016	Master Plan/RIDEM Wetlands Submission	D.R.N.	

Cover Sheet
James P. Murphy Highway Wind Energy
Assessor's Plat 12, Lot 331
West Warwick, Rhode Island
Wind Energy Development, LLC
3760 Quaker Lane, North Kingstown, Rhode Island 02882
tel (401) 295-4998
DE Job No. 0601-011. Copyright 2016 by DiPrete Engineering Associates, Inc.

\\estorage1\demash\projects\0601-011_james.p._murphy_highway\subarea_drawing\0601-011_dem_dwg_platset_2/18/2016

\\mastereng\klemah\projects\0801-011 James P. Murphy Highway\aircraft drawings\0801-011-draw\dwg\Plate2_218\2016

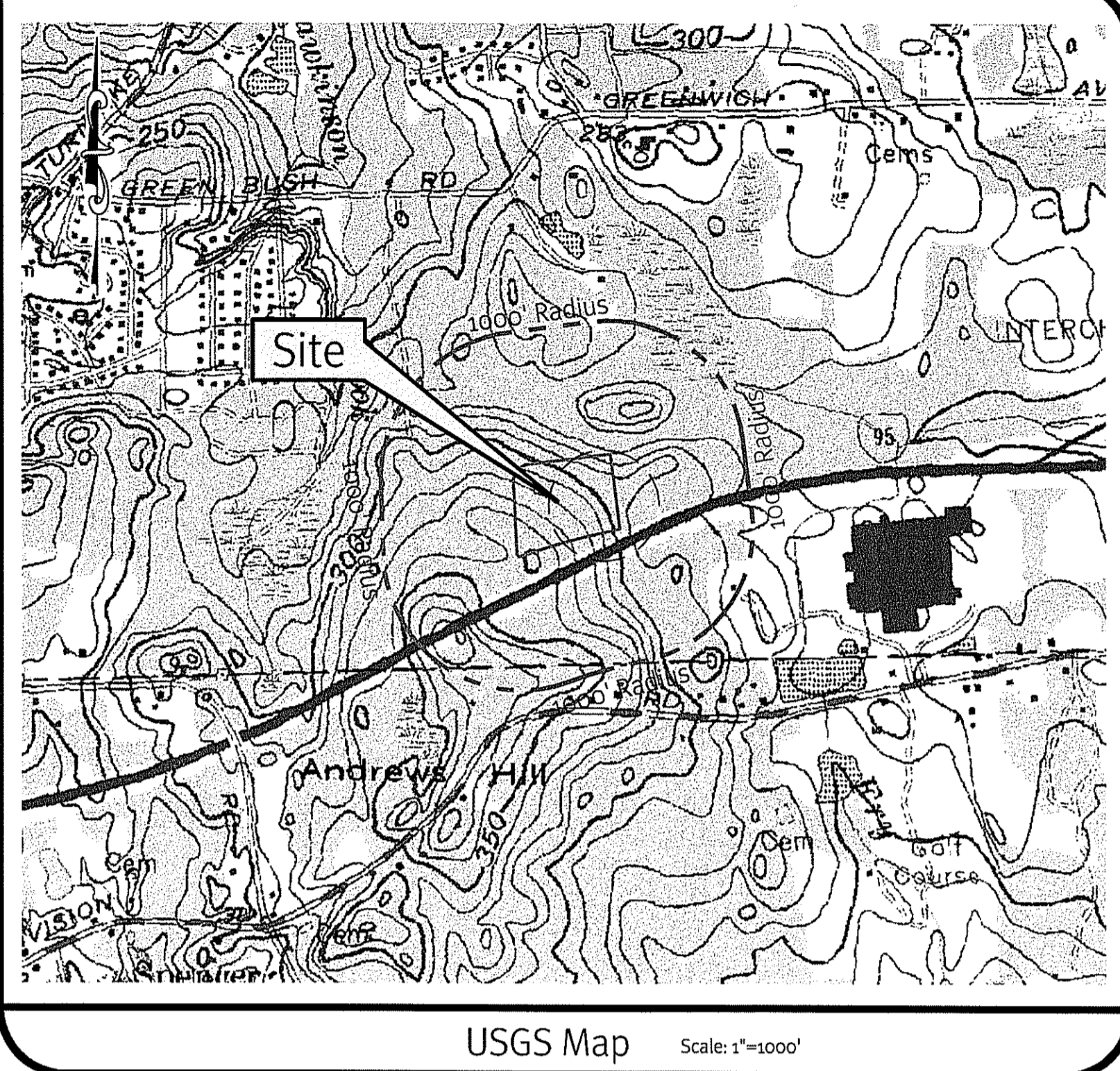


Photo obtained from the RI-GIS.

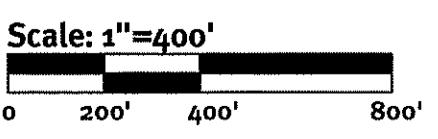
Legend:

- PROPERTY LINE 
- 1000' RADIUS LINE 
- HALF MILE RADIUS LINE 

Kindly be advised that
Permit is not a guarantee of
verification of the type and extent
of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF PERMITS
FRESHWATER WETLANDS
APPROVED FOR CONSTRUCTION
AS SPECIFIED IN THE PERMIT
MAR 2 2016
DATED: FEB 16 2015
NO CHANGES ALLOWED WITHOUT PERMITTING AGENCY
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Hester



DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-664-6006 www.diprete-eng.com

Boston • Providence • Newport

KEVIN C. MORIN
No. 051-11620
REGISTERED PROFESSIONAL ENGINEER CIVIL

This regulatory submission set shall not be used for construction purposes unless stamped, issued for construction, and signed by a DiPrete Engineering representative.

The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

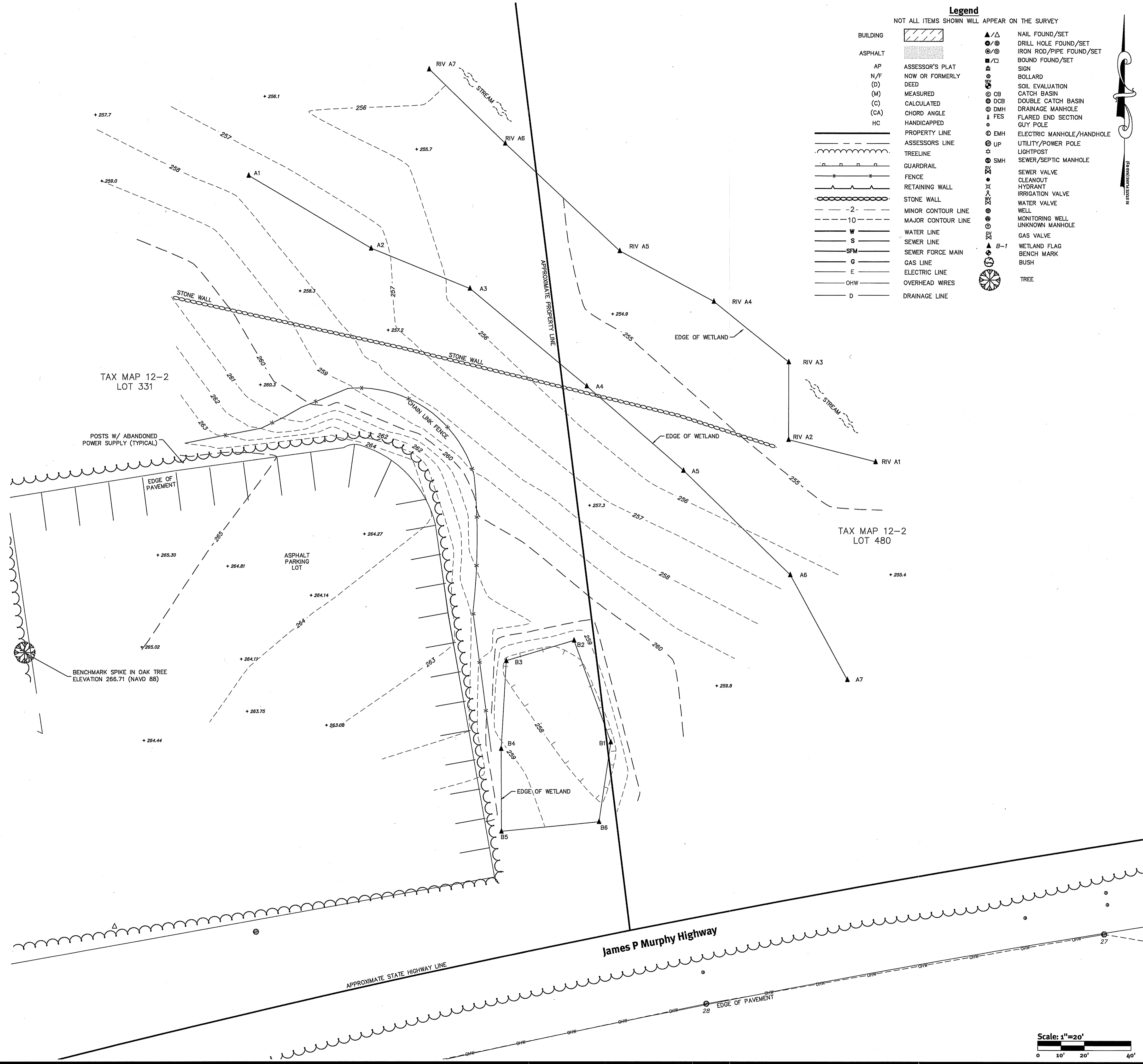
No.	Date	Description	By
1	2-18-2016	Response to Comments, Master Plan (RIS/200)	D.R.N.
2	2-20-2016	Master Plan (RIS/20) Wetlands Submission	D.R.N.

Drawn By: D.R.N. Design By: K.C.M.

Aerial Half Mile Radius Plan
James P. Murphy Highway Wind Energy
Assessor's Plat 12, Lot 331
West Warwick, Rhode Island

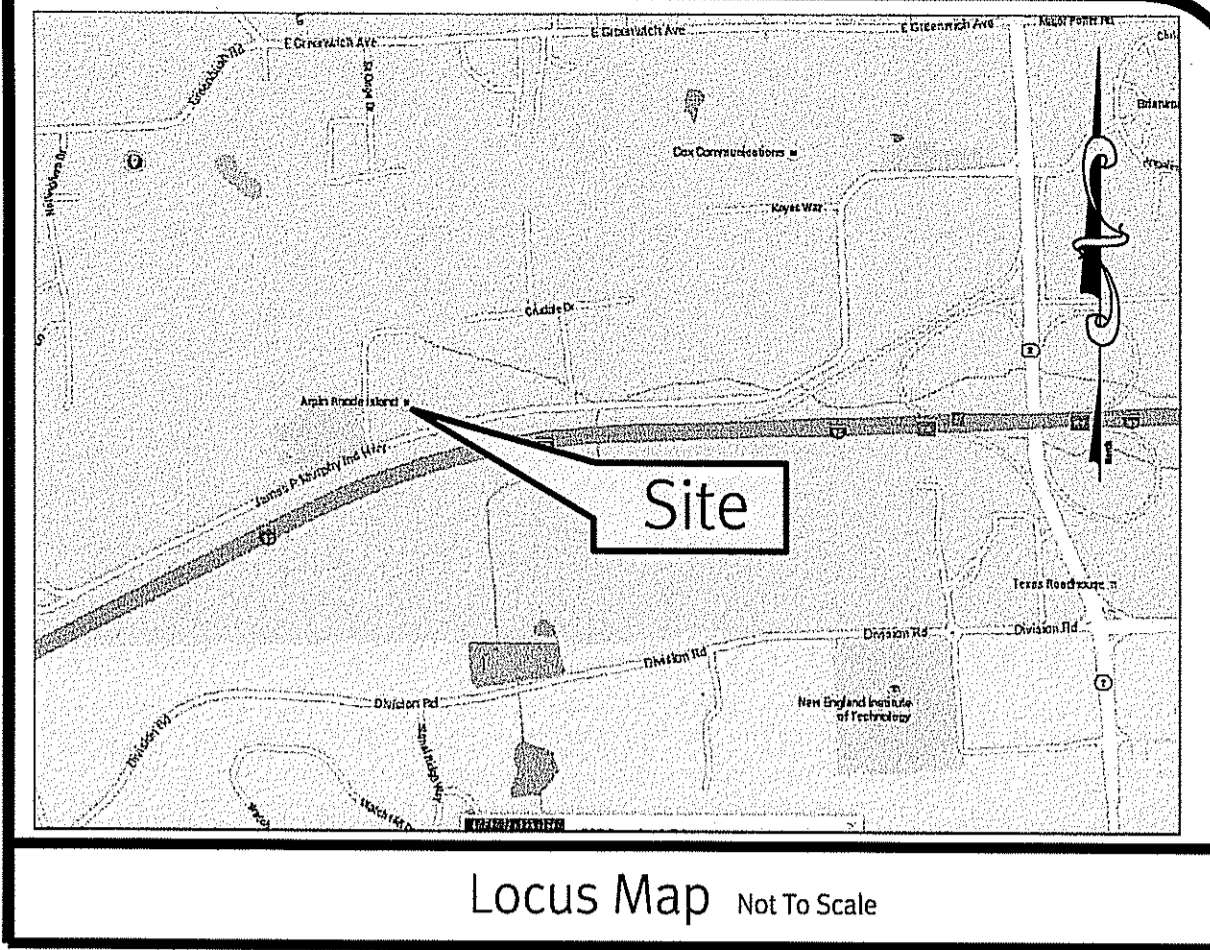
Wind Energy Development, LLC
3760 Quaker Lane, North Kingstown, Rhode Island 02882
tel (401) 295-9998

DE-REG-NOV-0801-011, Copyright 2016 by DiPrete Engineering Associates, Inc.



Legend
NOT ALL ITEMS SHOWN WILL APPEAR ON THE SURVEY

BUILDING		▲/△	NAIL FOUND/SET
ASPHALT		●/◎	DRILL HOLE FOUND/SET
N/F		◎/⊙	IRON ROD/PIPE FOUND/SET
(D)		■/◻	BOUND FOUND/SET
(M)		⊙	SIGN
(C)		⊙	BOLLARD
(CA)		⊙	SOIL EVALUATION
HC		⊙	CATCH BASIN
		⊙	DOUBLE CATCH BASIN
		⊙	DRAINAGE MANHOLE
		⊙	FLARED END SECTION
		⊙	GUY POLE
		⊙	ELECTRIC MANHOLE/HANDHOLE
		⊙	UTILITY/POWER POLE
		⊙	LIGHTPOST
		⊙	SEWER/SEPTIC MANHOLE
		⊙	SEWER VALVE
		⊙	CLEANOUT
		⊙	HYDRANT
		⊙	IRRIGATION VALVE
		⊙	WATER VALVE
		⊙	WELL
		⊙	MONITORING WELL
		⊙	UNKNOWN MANHOLE
		⊙	GAS VALVE
		⊙	WETLAND FLAG
		⊙	BENCH MARK
		⊙	BUSH
		⊙	TREE



General Notes

- FIELD SURVEY PERFORMED BY DIPRETE ENGINEERING ON JANUARY 7, 2016. THIS PLAN REFLECTS ON THE GROUND CONDITIONS AS OF THAT DATE.
- ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN HAVE BEEN LOCATED FROM FIELD SURVEY OBSERVATIONS ONLY. DIPRETE ENGINEERING IS NOT RESPONSIBLE FOR MISSING UNDERGROUND UTILITIES, EITHER IN SERVICE OR ABANDONED, NOT OBSERVED AT THE TIME OF THE SURVEY. (PLEASE CONTACT DIGSAFE 72 WORKING HOURS PRIOR TO ANY CONSTRUCTION AT 1-888-344-7233).

Datum Note:

- ELEVATIONS SHOWN HEREON, IN U.S. SURVEY FEET, ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), AS DETERMINED BY DIPRETE ENGINEERING USING REAL TIME KINEMATIC G.P.S. OBSERVATIONS.

DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-949-1000 fax 401-949-6000 www.diprete-eng.com

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ROBERT G. BABCOCK
No. 2504
PROFESSIONAL LAND SURVEYOR

CERTIFICATION:
THIS SURVEY AND PLAN CONFORMS TO THE FOLLOWING CLASS STANDARDS AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS EFFECTIVE APRIL 1, 1994.
BOUNDARY SURVEY, CLASS IV
TOPOGRAPHIC SURVEY, CLASS III

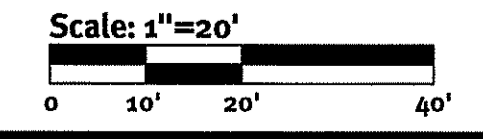
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER QUALITY
FRESHWATER WETLANDS PERMIT
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER
DATED MAR 2 2016 FILE # 16-0015
NO CHANGES ALLOWED WITHOUT APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION

Charles A. Hester

MT	By:
Topographic Survey	Description
Date	Drawn By: MTI
No.	

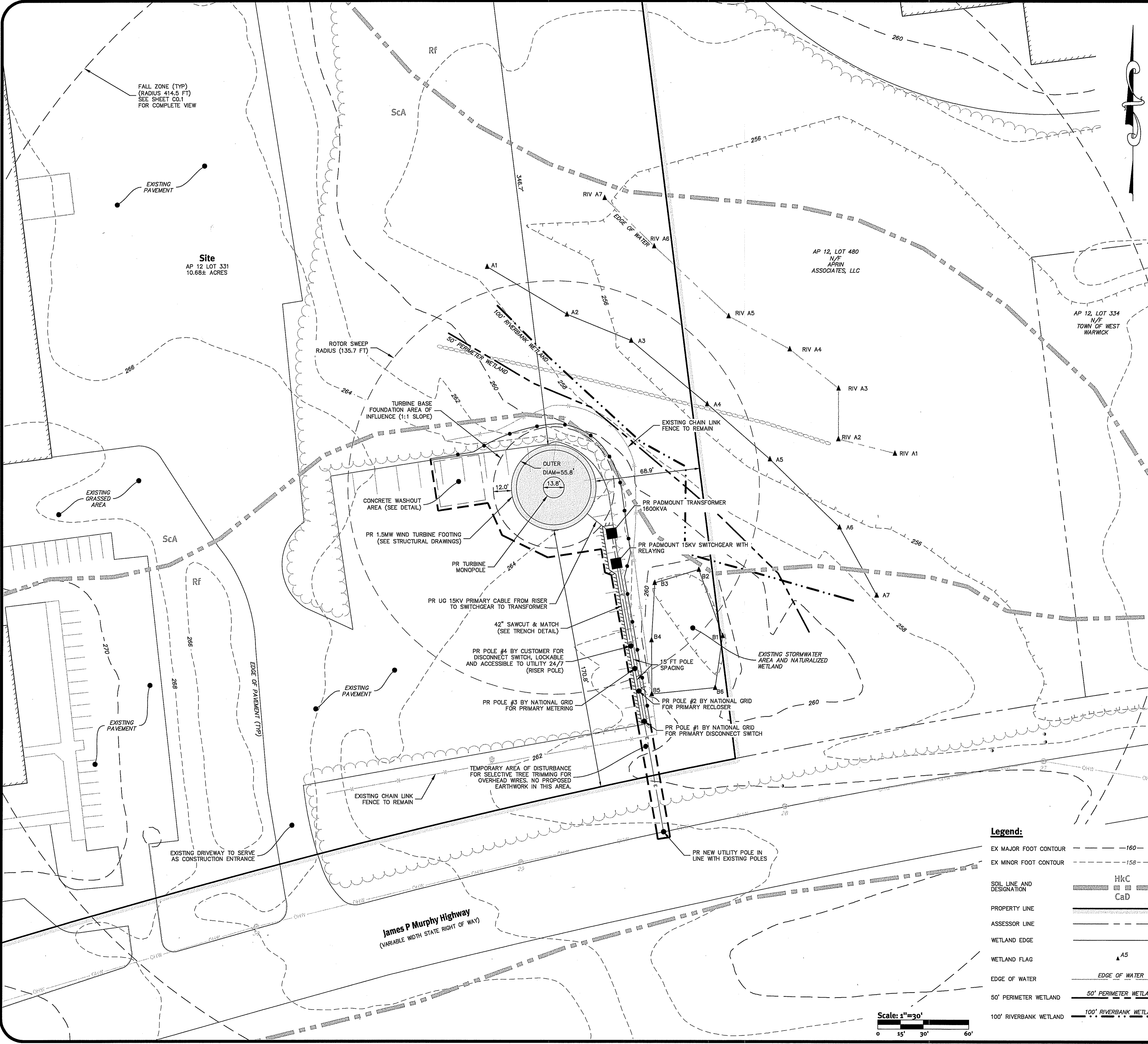
FEB 19 2016



Topographic Survey
James P. Murphy Highway Wind
West Warwick, RI

Client: **Wind Energy Development, LLC**
3760 Quaker Lane
North Kingstown, Rhode Island 02882
DE 3406 No. 002-0011 Copyright 2016 by Diprete Engineering Associates, Inc.

SHEET 1 OF 1



General Notes:

- THE SITE IS LOCATED ON THE TOWN OF WEST WARWICK ASSESSOR'S PLAT 12 LOT 331.
- THE SITE IS APPROXIMATELY 10.68± ACRES AND IS ZONED BUSINESS PARK (BP).
- THE OWNER OF AP 12, LOT 331: ARPIN ASSOCIATES, LLC, 99 JAMES P MURPHY HIGHWAY WEST WARWICK, RI 02893
- THIS SITE IS LOCATED IN FEM FLOOD ZONES X. REFERENCE FEMA FLOOD INSURANCE RATE MAP 440300117H, MAP REVISED OCTOBER 2, 2015.
- THIS PLAN IS SUBSTANTIALLY CORRECT IN ACCORDANCE WITH A CLASS IV STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. THIS PLAN IS NOT TO BE CONSTRUED AS AN ACCURATE BOUNDARY SURVEY AND MAY BE SUBJECT TO SUCH CHANGES AS AN ACCURATE BOUNDARY SURVEY MAY DISCLOSE.
- SOIL MAPPING OBTAINED FROM SOIL SURVEY OF RHODE ISLAND, PREPARED BY U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE. WETLANDS FLAGGED BY JOHN KUPA.
- THE SITE IS NOT WITHIN A: GROUNDWATER PROTECTION AREA, NATURAL HERITAGE AREA, GROUNDWATER PROTECTION OVERLAY DISTRICT
- THE FOLLOWING DOCUMENTS ARE CONSIDERED PART OF THE PROJECT PLANS AND THE CONTRACTOR/ OWNER MUST MAINTAIN THESE DOCUMENTS AS PART OF A FULL PLAN SET:
 - SOIL EROSION AND SEDIMENT CONTROL PLAN (SESC). THE SESC CONTAINS THE FOLLOWING:
 - EROSION CONTROL MEASURES
 - SHORT TERM MAINTENANCE
 - ESTABLISHMENT OF VEGETATIVE COVER
 - CONSTRUCTION POLLUTION PREVENTION
 - SEQUENCE OF CONSTRUCTION
- THIS PLAN SET REFERENCES RIDOT STANDARD DETAILS (DESIGNATED AS RIDOT STD X.X.X.). RIDOT STANDARD DETAILS ARE AVAILABLE FROM RIDOT AND ONLINE AT: WWW.DOT.STATE.RI.US/ENGINEERING/STANDARDS/INDEX.ASP.
- DETAILED SOIL EROSION AND SEDIMENT CONTROL MEASURES TO BE INCORPORATED AT THE PRELIMINARY DESIGN STAGE AND WILL CONFORM TO RIDOT BEST MANAGEMENT PRACTICES.
- THE SITE IS SERVICED BY PUBLIC WATER AND PUBLIC SEWER.
- THE SITE IS PROPOSED TO BE BUILT IN 1 PHASE.
- SOILS EXCAVATED FOR FOOTINGS AND UTILITY TRENCHES WILL BE REMOVED AND DISPOSED OF OFFSITE AND STRUCTURAL FILL IMPORTED AS NEEDED.

Soil Information:

(REFERENCE: SOIL SURVEY OF RHODE ISLAND, U.S.D.A. SOIL CONSERVATION SERVICE)

SOIL NAME	DESCRIPTION
C1C	CANTON AND CHARLTON VERY STONY FINE SANDY LOAMS, 8 TO 15 PERCENT SLOPES
Rf	RIDGEBURY, WHITMAN, AND LEICESTER EXTREMELY STONY FINE SANDY LOAMS
ScA	SCIO SILT LOAM, 0 TO 3 PERCENT SLOPES

Dimensional Regulations:

CURRENT ZONING:	BP	REQUIRED	PROVIDED
MINIMUM LOT AREA:	40,000 SF	56,983 SF (EXISTING)	
MINIMUM FRONTAGE AND LOT WIDTH:	150'	768' (EXISTING)	
MINIMUM FRONT AND CORNER SIDE YARD:	50'	170.8'	
MINIMUM SIDE YARD:	20'	68.9'	
MINIMUM REAR YARD:	50'	346.7'	
MAXIMUM STRUCTURE HEIGHT:	90'	278.8'	

Layout and Materials:

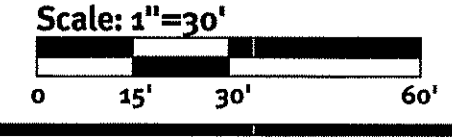
- DIMENSIONS ARE FROM THE FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.
- CURB RADII ARE 5 FEET UNLESS OTHERWISE NOTED.
- SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
- SEE STRUCTURAL DRAWINGS FOR EXACT FOUNDATION DIMENSIONS AND DETAILS.
- ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.
- CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS, BUT SHALL VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.

Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

OFFICE OF WATER QUALITY
FRESHWATER WETLANDS
APPROVED WITH
AS SPECIFIED IN THE LETTER
DATED **MAR 2 2016** FILE # **16-0015**
NO CHANGES ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE
APPROVED PLANS MUST BE AT ALL TIMES
Charles H. Hester

Legend:

EX MAJOR FOOT CONTOUR	--- 160 ---	EDGE OF PAVEMENT	---
EX MINOR FOOT CONTOUR	--- 158 ---	EX BUILDING	[Hatched Box]
SOIL LINE AND DESIGNATION	HkC CaD	EX TREELINE	[Wavy Line]
PROPERTY LINE	---	EX TREELINE	[Dashed Line]
ASSESSOR LINE	---	EX OVERHEAD WIRES	[Line with Circles]
WETLAND EDGE	---	EX UTILITY POLE	[Circle]
WETLAND FLAG	▲ A5	PR ELECTRIC LINE	— E — E —
EDGE OF WATER	EDGE OF WATER	PR UTILITY POLE	•
50' PERIMETER WETLAND	50' PERIMETER WETLAND	PR UTILITY PAD MOUNT	■
100' RIVERBANK WETLAND	100' RIVERBANK WETLAND	SAWCUT LINE	[Hatched Line]
		LIMIT OF WORK	---
		STAKED SILT FENCE (RIDOT STD 9.2.0)	[Line with Circles]



DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel. 401-949-1000 fax. 401-464-6006 www.diprete-eng.com
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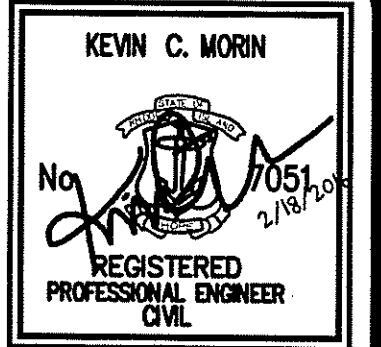
KEVIN C. MORIN
No. 7051-01
REGISTERED PROFESSIONAL ENGINEER CIVIL

This regulatory submission set shall not be used for construction purposes unless stamped/issued for construction and signed by a DiPrete Engineering representative.
The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA compliance in the implementation of this plan and design.

Rev.	Date	Description	Drawn By: D.R.N.	Design By: K.C.M.
1	03-22-2016	Revised to Comments, MassGIS, and RIDOT		
2	03-28-2016	Master Plan/Revised Wetlands Submission		

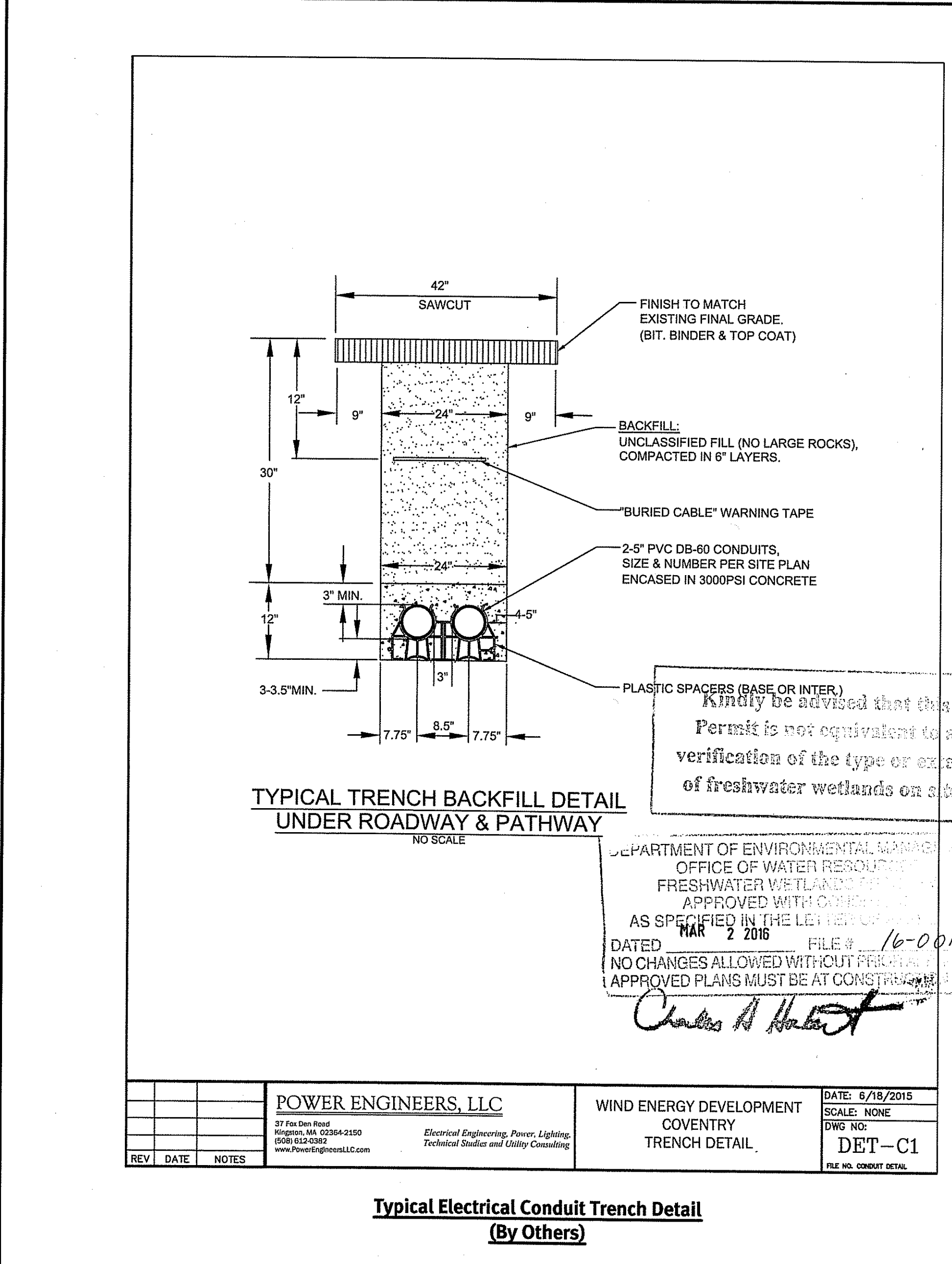
Site Plan
James P. Murphy Highway Wind Energy
Assessor's Plat 12, Lot 331
West Warwick, Rhode Island
Wind Energy Development, LLC
3760 Quaker Lane, North Kingstown, Rhode Island 02882
tel. (401) 295-4958
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SHEET C2.0 OF 5

I:\easorage\demain\projects\0601-011_James P. Murphy Highway\autocad drawings\0601-011-dm.dwg Plotter: 7/18/2016

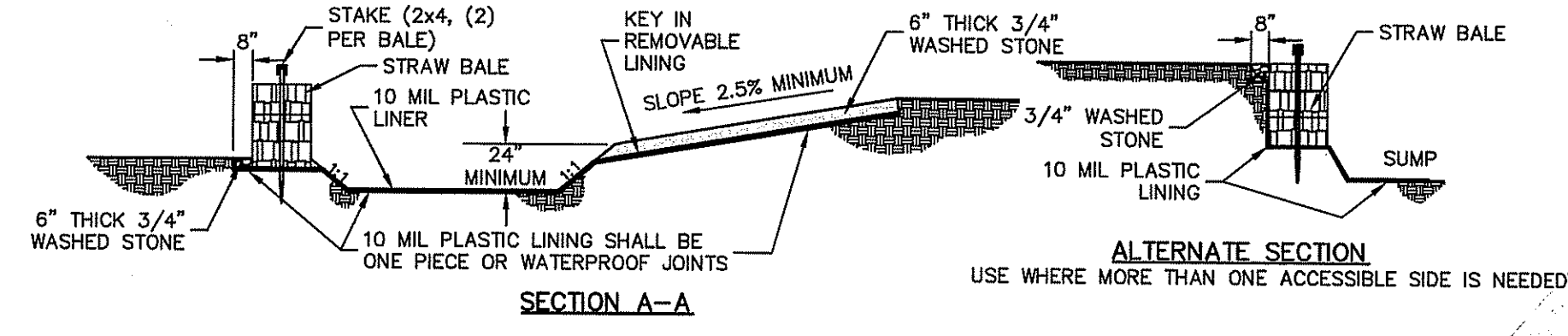
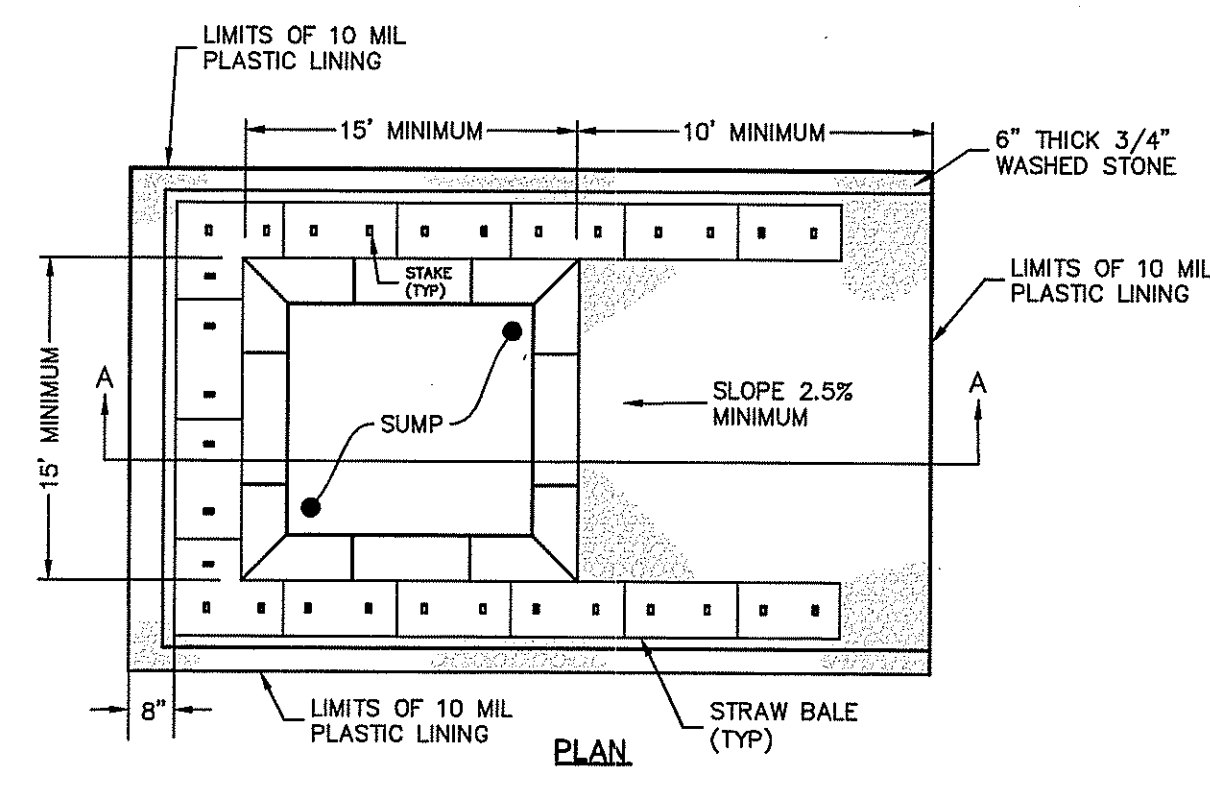


This regulatory submission set shall not be used for construction purposes unless stamped 'Issued for Construction' and signed by a Diprete Engineering representative.
 The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA compliance in the implementation of this plan and design.

RESPONSIBLE ENGINEER	DESIGNER	DATE	DESCRIPTION
KEVIN C. MORIN	KEVIN C. MORIN	6/19/2015	DESIGN
PROJECT MANAGER	DATE	DESCRIPTION	
CHARLES A. HORTON	2-18-2016	REVISION	
NO.	DATE	DESCRIPTION	
1	2-18-2016	RESPONSE TO COMMENTS, MAJOR REVISIONS	
2	2-18-2016	RESPONSE TO COMMENTS, MINOR REVISIONS	
3	2-18-2016	RESPONSE TO COMMENTS, MINOR REVISIONS	
4	2-18-2016	RESPONSE TO COMMENTS, MINOR REVISIONS	



Typical Electrical Conduit Trench Detail (By Others)



WASHOUT SIGN

Concrete Washout Area (NOT TO SCALE)

- NOTES:**
- PIT IS SPECIFICALLY DESIGNATED, DIKED AND IMPERVIOUS CONTAINMENT TO PREVENT CONTACT BETWEEN CONCRETE WASH AND STORMWATER.
 - WASH WATER SHALL NOT BE ALLOWED TO FLOW TO SURFACE WATER.
 - FACILITY MUST HOLD SUFFICIENT VOLUME TO CONTAIN CONCRETE WASTE WITH A MINIMUM FREEBOARD OF 12".
 - FACILITY SHALL NOT BE FILLED BEYOND 95% CAPACITY UNLESS A NEW FACILITY IS CONSTRUCTED.
 - SAWCUT PORTLAND CEMENT CONCRETE, RESIDUE FROM SAWCUT AND GRINDING TO BE DISPOSED OF IN THE PIT.
 - CONCRETE WASHOUTS SHALL BE LOCATED A MINIMUM OF 100' FROM DRAINAGE WAYS, INLETS, AND SURFACE WATERS.
 - MANUFACTURED CONCRETE WASHOUT DEVICES MAY BE USED IF REMOVED FROM THE SITE WHEN 95% FULL CAPACITY.

