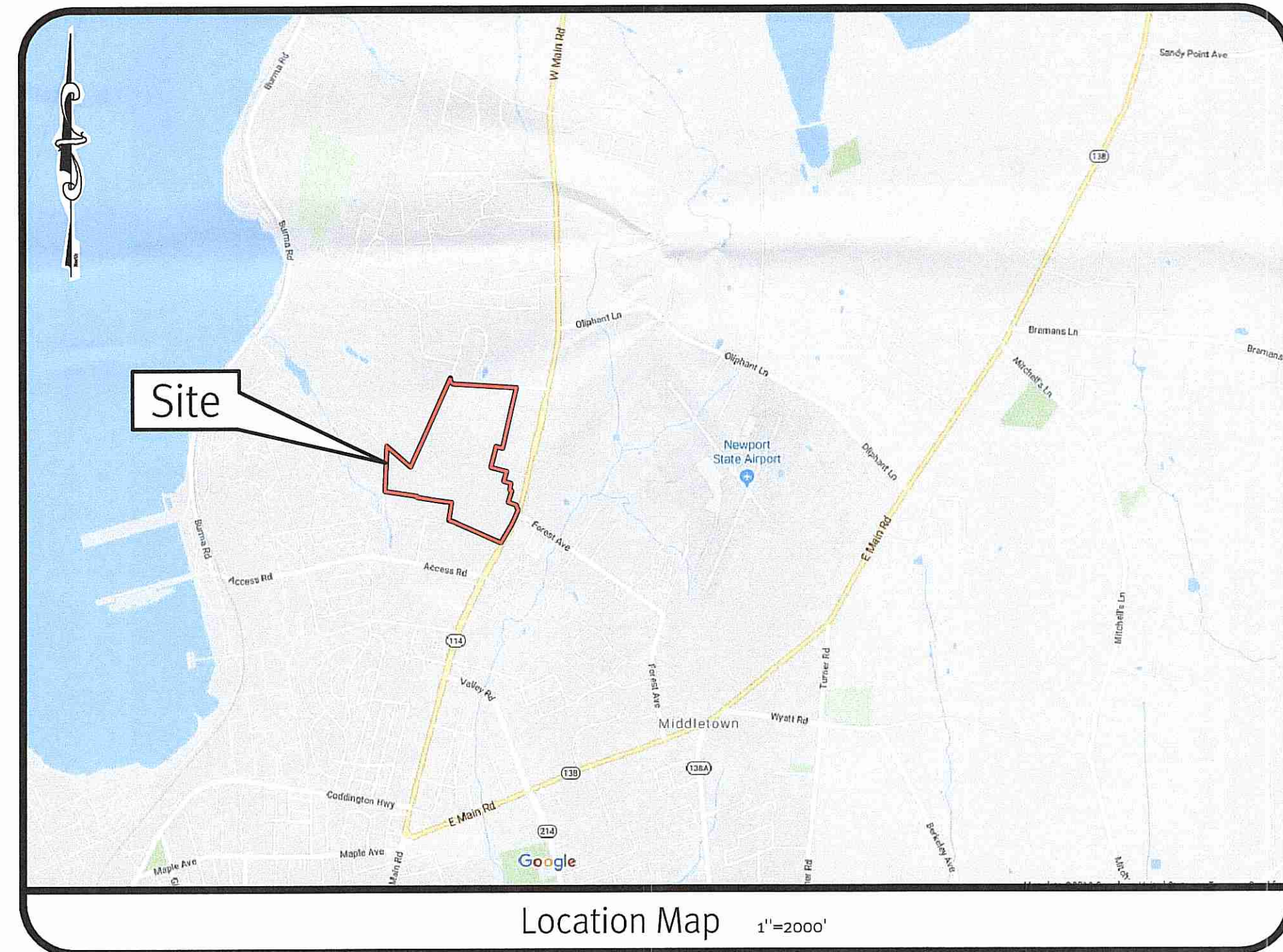


Preliminary Determination

K & K Beach Club Solar

West Main Road
 Middletown, Rhode Island
 Assessor's Plat 106 Lot 55



Sheet Index

1. Cover Sheet
2. Aerial Half Mile Radius & USGS Map
3. Overall Existing Resource Plan
4. Partial Site Plan
5. 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 DEC 31 2018 FILE # 18-0285
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Jonathan D. Jensen

DEC 14 2018
 OFFICE OF WATER RESOURCES
 DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

DAVID A. RUSSO
 No. 1435
 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.

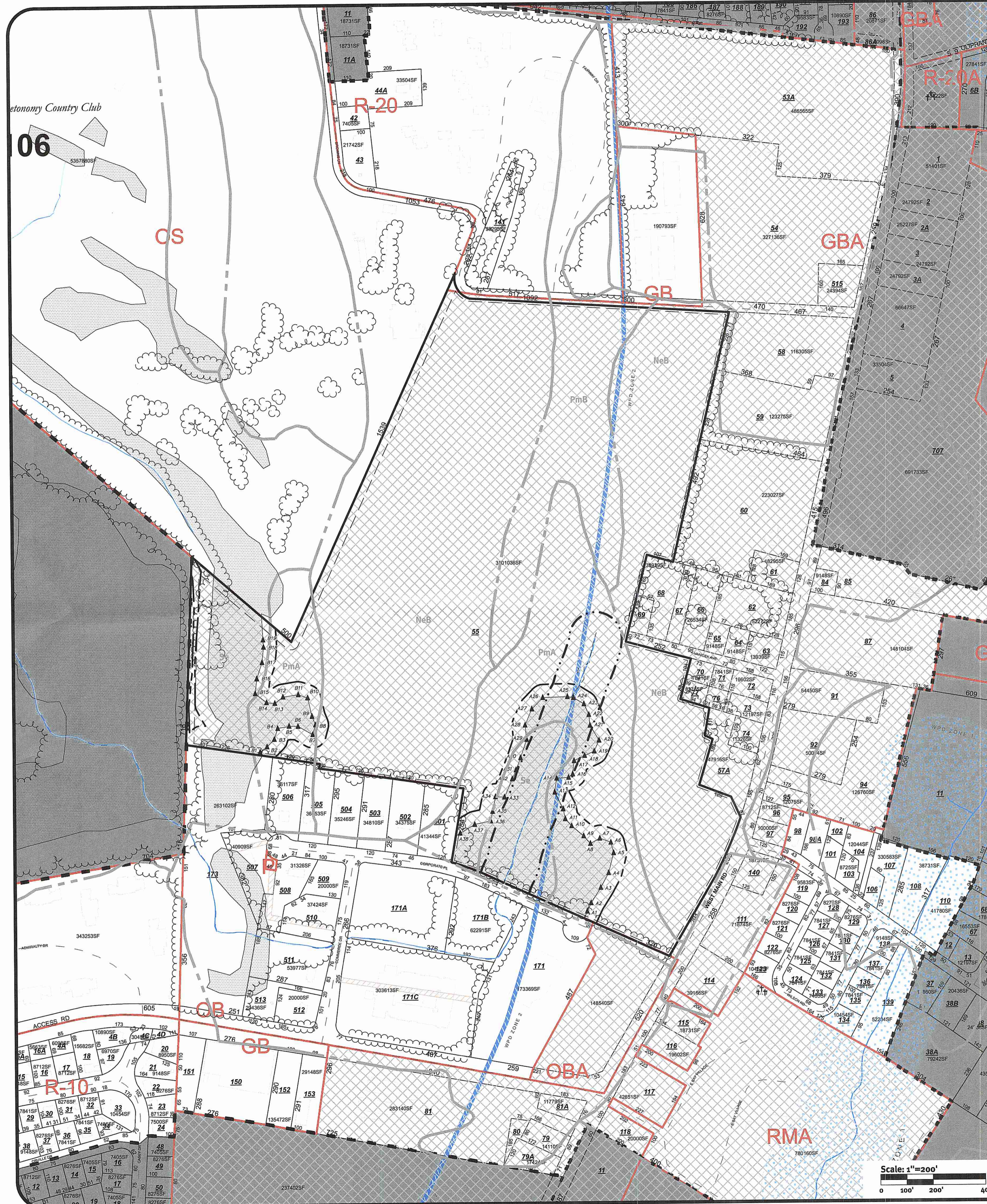
No.	Date	Description	By:
1	12/14/2018	Preliminary Determination, R.I.C.	M.A.H.
0	10/22/2018	Preliminary Determination Submission	M.A.H.

Drawn By: J.A.R. Design By: D.A.R.

Cover Sheet
K & K Beach Club Solar
 Middletown, Rhode Island
 Assessor's Plat 106 Lot 55
 Applicant
Econox Renewables, Inc.
 48 Waterfield Road, P.O. Box 808
 Winchester, MA 01890

t:\vmain\projects\2612-001-k and k beach club solar\autocad drawings\2612-004-cvr.dwg Plotter: 12/14/2018

z:\demain\projects\1612-004.k and l beach club solar\arcadial drawings\1612-004-plan.dwg Plotter: 12/14/2018



General Notes:

1. THE SITE IS LOCATED ON THE TOWN OF GLOCESTER, RHODE ISLAND ASSESSOR'S PLAT 17 LOT 26.
2. THE SITE IS APPROXIMATELY 109.01± ACRES AND IS ZONED A-4.
3. THE OWNER OF AP 17 LOT 26 IS: EDWARD J. JR. & EVA M. KELLEY
126 COVE POINT LANE
WILLIAMSBURG, VA 23185
4. THIS SITE IS LOCATED IN FEMA FLOOD ZONE X SHADED AND UNSHADED, ZONE X UNSHADED AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN, ZONE X SHADED AREAS DETERMINED TO BE WITHIN THE 0.2% ANNUAL CHANCE FLOOD PLAIN. REFERENCE FEMA FLOOD INSURANCE RATE MAP 44007C0165G, MAP REVISED MARCH 2, 2009.
5. 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.
6. SOIL MAPPING OBTAINED FROM WEBSOIL SURVEY OF RHODE ISLAND, PREPARED BY U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.
7. THE SITE NOT WITHIN A:
GROUNDWATER PROTECTION AREA (RIDEM)
COMMUNITY WELLHEAD PROTECTION AREA (RIDEM)
NON-COMMUNITY WELLHEAD PROTECTION AREA (RIDEM)
NATURAL HERITAGE AREA (RIDEM)
GROUNDWATER PROTECTION OVERLAY DISTRICT (TOWN)
S.A.M.P. AREA (CRMC)
8. THE SITE DOES NOT CONTAIN ANY HISTORICALLY SIGNIFICANT SITES OR STRUCTURES; STATE OR LOCAL HISTORIC SITES, DISTRICTS, CEMETERIES OR LANDSCAPES; ARCHAEOLOGICALLY SIGNIFICANT SITES; OR STATE DESIGNATED SCENIC AREAS. THIS WAS DETERMINED THROUGH FILE REVIEW AND SITEWALK COMPLETED BY DIPRETE ENGINEERING 04/19/2018 AND IS CORRECT TO THE BEST OF OUR BELIEF.
9. WETLAND FLAGGING PERFORMED BY DIPRETE ENGINEERING ON APRIL 12, 2018.

Lidar Note:

CONTOUR DATA SHOWN ON THIS PLAN CONFORMS TO A T-4 TOPOGRAPHICAL SURVEY STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS; SAID DATA IS BASED ON ELEVATION INFORMATION THAT WAS COLLECTED WITH AIRBORNE LIDAR TECHNOLOGY FOR THE ENTIRE AREA OF RHODE ISLAND BETWEEN APRIL 22 AND MAY 6, 2011 AS PART OF THE NORTHEAST LIDAR PROJECT. THIS DATA'S POSITIONAL ACCURACY AND RELIABILITY HAS NOT BEEN VERIFIED BY DIPRETE ENGINEERING AND IS SUBJECT TO CHANGES AN AUTHORITY FIELD SURVEY MAY DISCLOSE.

Abbreviations:

EXISTING	EX
PROPOSED	PR
TYPICAL	TYP
ASSESSOR'S PLAT	AP
NOW OR FORMERLY	N/F

Existing Legend:

(NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS)

PROPERTY LINE	—————
ASSESSOR LINE	—————
SETBACK	-----
MINOR CONTOUR LINE	----- 2
MAJOR CONTOUR LINE	----- 10
TREELINE	~~~~~
SOIL BOUNDARY LINE	----- HkC ----- CaD ----- FEMA ZONE X
FEMA BOUNDARY	-----
WETLAND EDGE	-----
WETLAND FLAG	▲ AS
WETLAND HATCH	~~~~~
50' PERIMETER WETLAND	-----
100' RIVERBANK WETLAND	-----
STREAM	~~~~~

Soil Information:

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

SOIL NAME	DESCRIPTION
NeB	NEWPORT SILT LOAM, 3 TO 8 PERCENT SLOPES
PmB	PITTSVILLE SILT LOAM, 0 TO 3 PERCENT SLOPES
PmB	PAXTON VERY STONY FINE SANDY LOAM, 0 TO 8 PERCENT SLOPES
Se	STISSING SILT LOAM

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER RESOURCES PROGRAM
AS PART OF THE LETTER OF APPROVAL
DATED DEC 31 2018 FILE # 18-0285
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Sewer

DAVID A. RUSSO
No. 14305
REGISTERED PROFESSIONAL ENGINEER
CIVIL

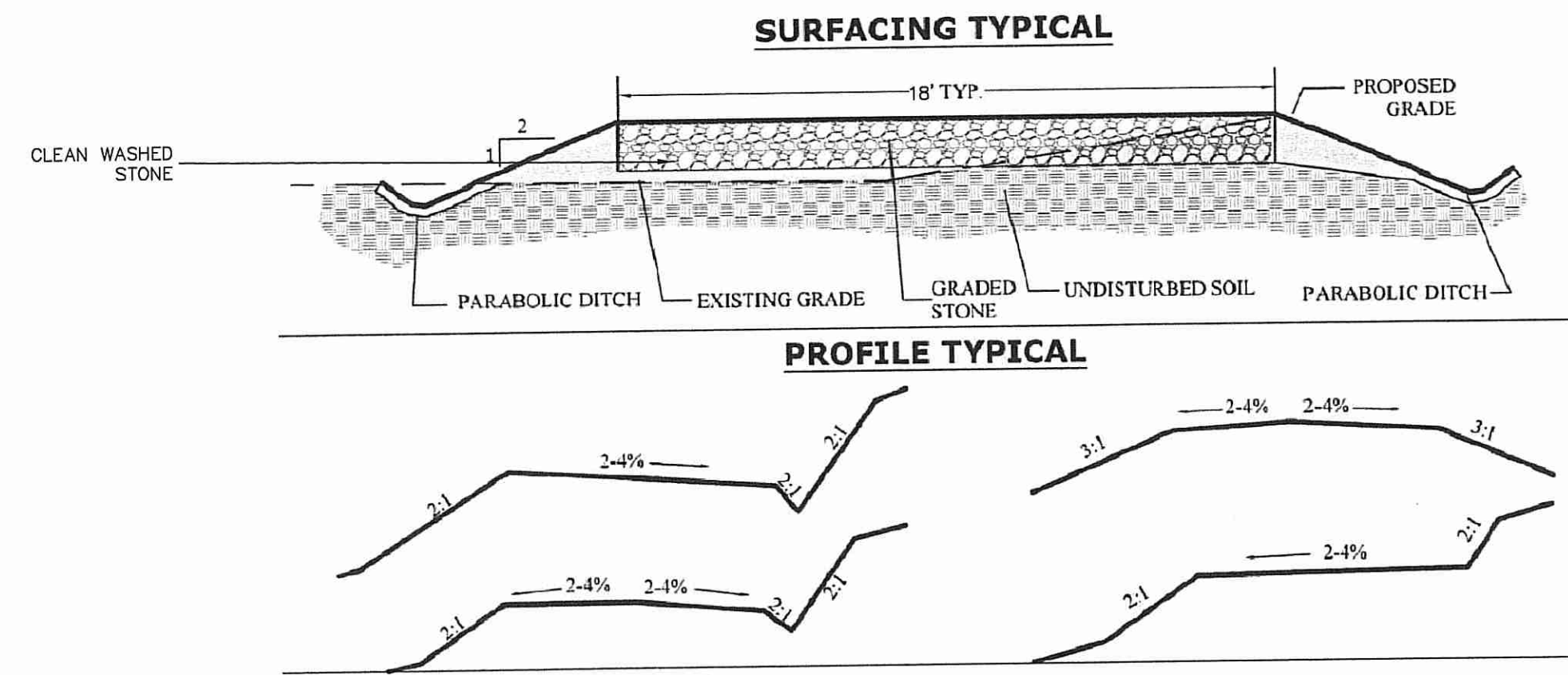
This regulatory submission set shall not be used for construction purposes unless stamped "issued for construction" and signed by a Diprete Engineering representative.

The contractor is responsible for all of the means, methods, techniques, practices and procedures, and OSHA compliance in the implementation of this plan and design.

12-31-2018	Pauline B. Starnes	By:	Design By: D.A.R.
12-31-2018	Pauline B. Starnes	By:	
12-31-2018	Pauline B. Starnes	By:	
No.	Date	Description	

Overall Existing Resource Plan
K & K Beach Club Solar
Middletown, Rhode Island
Assessor's Map 006 L01 55

Excon Renewables, Inc.
48 Waterfield Road, P.O. Box 808
Winchester, MA 01890



SURFACING SPECIFICATIONS

Conditions:	Road Thickness	Stone Size	Fines
Base Layer with Geotextile Fabric (not excessively wet)	4" Min.	3-3 1/2	0-6%
Base Layer with Geotextile Fabric (wet conditions)	6" Min.	3-3 1/2	0-6%

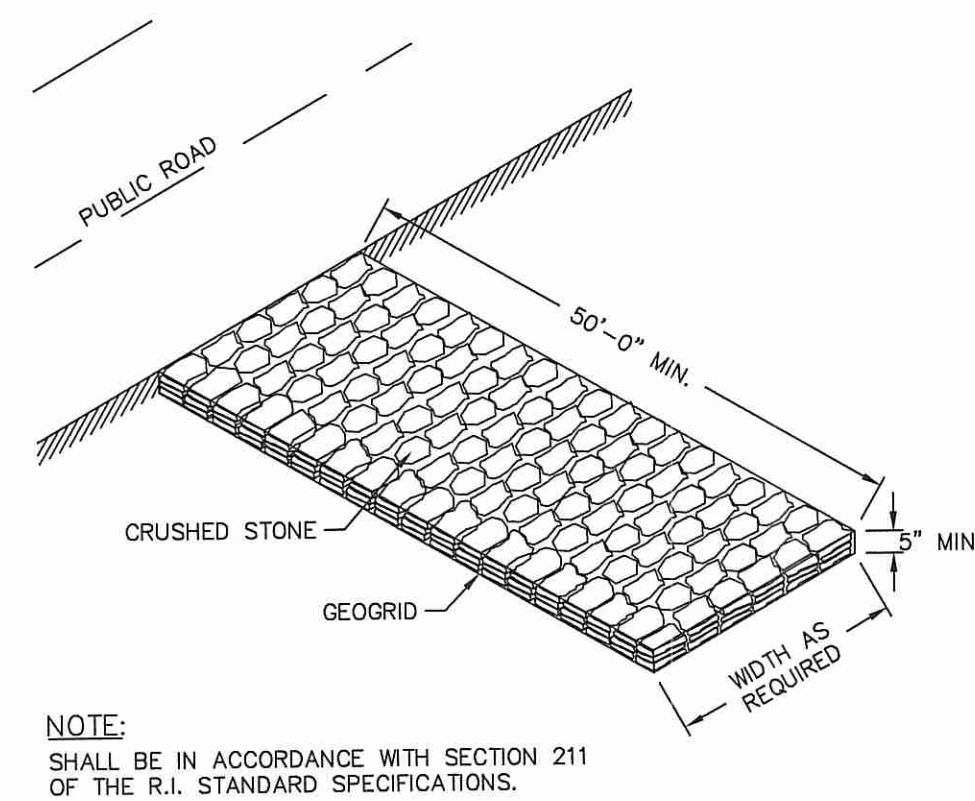
MATERIAL SPECIFICATIONS

Sieve Designation	Percentage by Mass (Weight) Passing Square Mesh Sieves
90mm (3.5 inch)	100
75 mm (3 inch)	90-100
50 mm (2 inch)	75-100
25 mm (1 inch)	50-80
12.5mm (1/2 inch)	30-60
4.75 mm (No. 4)	15-40
75um (No. 200)	0-6

NOTE:
1. CLEAN WASHED STONE IS REQUIRED FOR THE PERMEABLE ACCESS ROAD TO PROMOTE INFILTRATION.

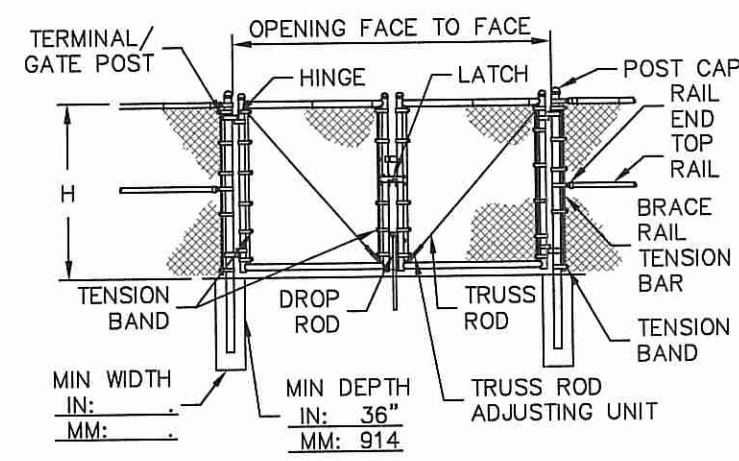
- SOURCES:**
- Surfacing Typical and Surfacing Specs: Derived from USDA NRCS drawing "Access Road; ME-ENG-AR1"
 - Profile Typical: Derived from USDA Forest Service Publication "Forest Road Construction and Maintenance"
 - Material Specs: Derived from VTrens 704.05 Subbase

PERMEABLE ACCESS DETAIL
NTS



NOTE:
SHALL BE IN ACCORDANCE WITH SECTION 211 OF THE R.I. STANDARD SPECIFICATIONS.

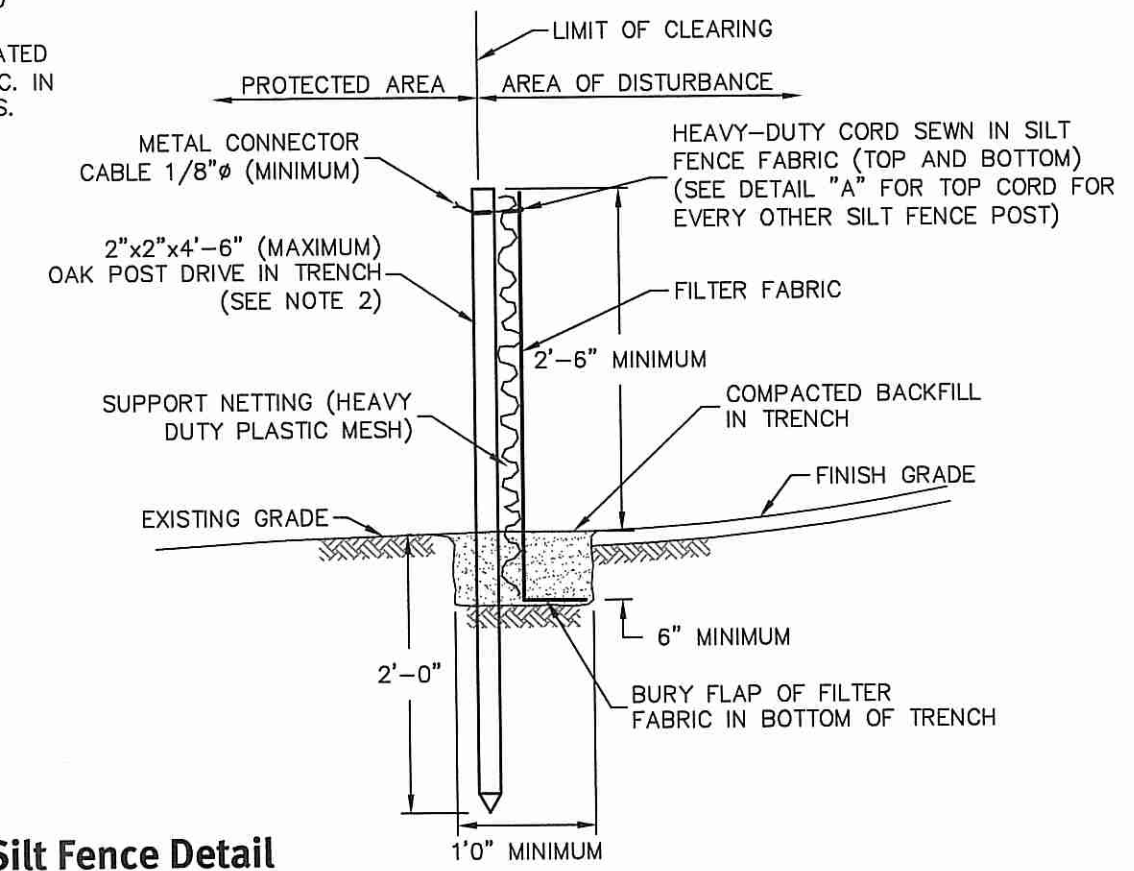
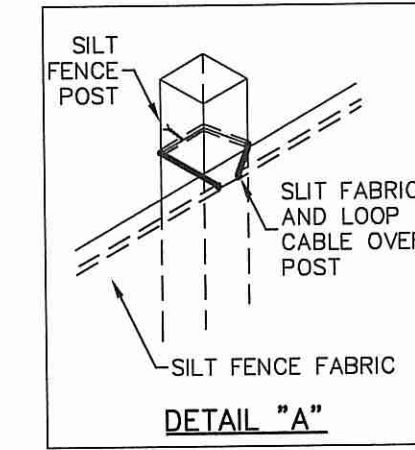
Construction Access
NOT TO SCALE



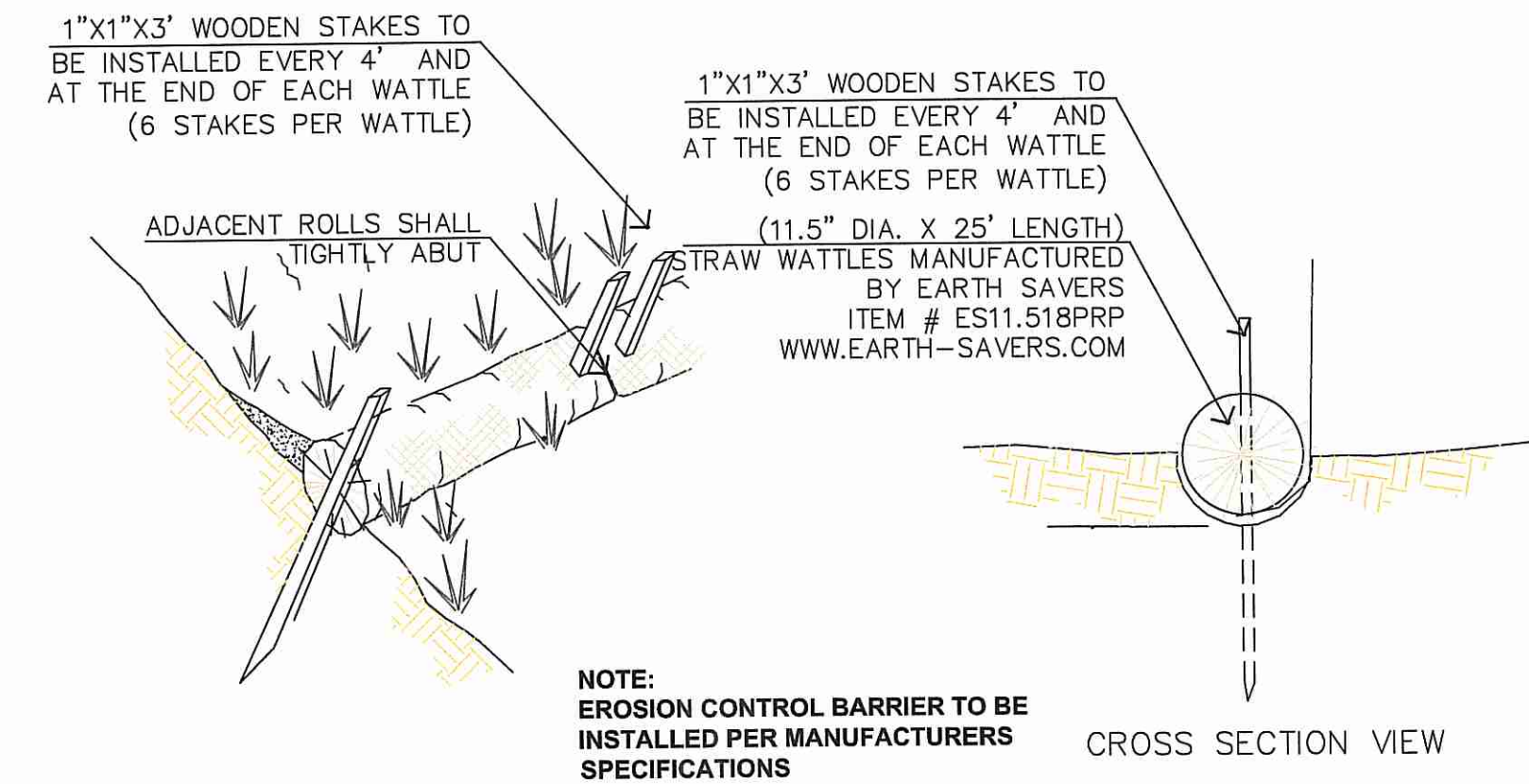
NOTE:
1. METRIC DIMENSIONS ARE NOMINAL EQUIVALENTS TO U.S. DIMENSIONS.
2. SPECIFICATIONS SHOWN CAN BE CHANGED BY THE MANUFACTURER ONLY.
3. FOOTING WIDTH TO BE (4)X POST WIDTH.

Double Swing Gate 12' Opening
NOT TO SCALE

- NOTES:**
1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
 2. 2"x2"x4'-6" (MAXIMUM) OAK POSTS FOR SILT FENCE SHALL BE LOCATED 8'-0" (MAXIMUM) O.C. IN WETLAND AREAS AND 4'-0" (MAXIMUM) O.C. IN WETLAND RAVINE, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
 3. 1"x1"x4'-6" (MINIMUM) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
 4. SILT FENCE SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.

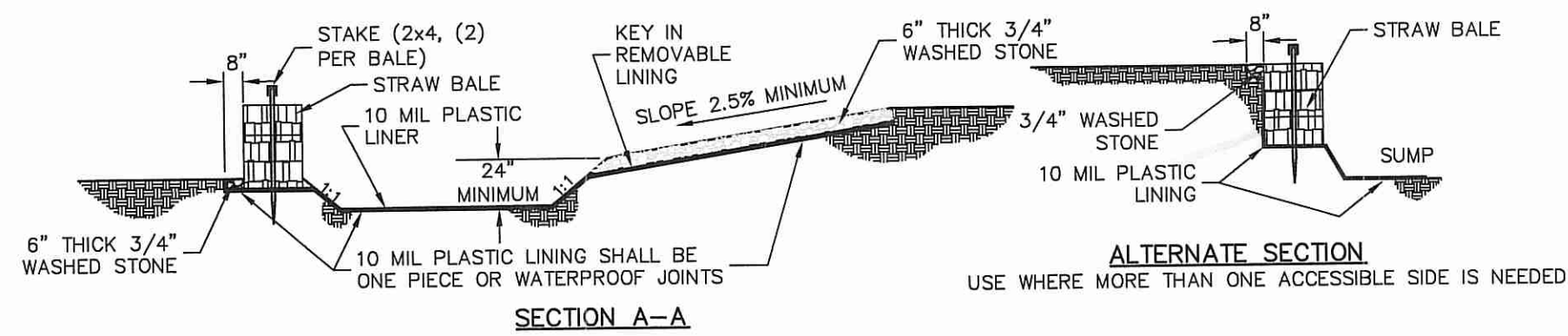
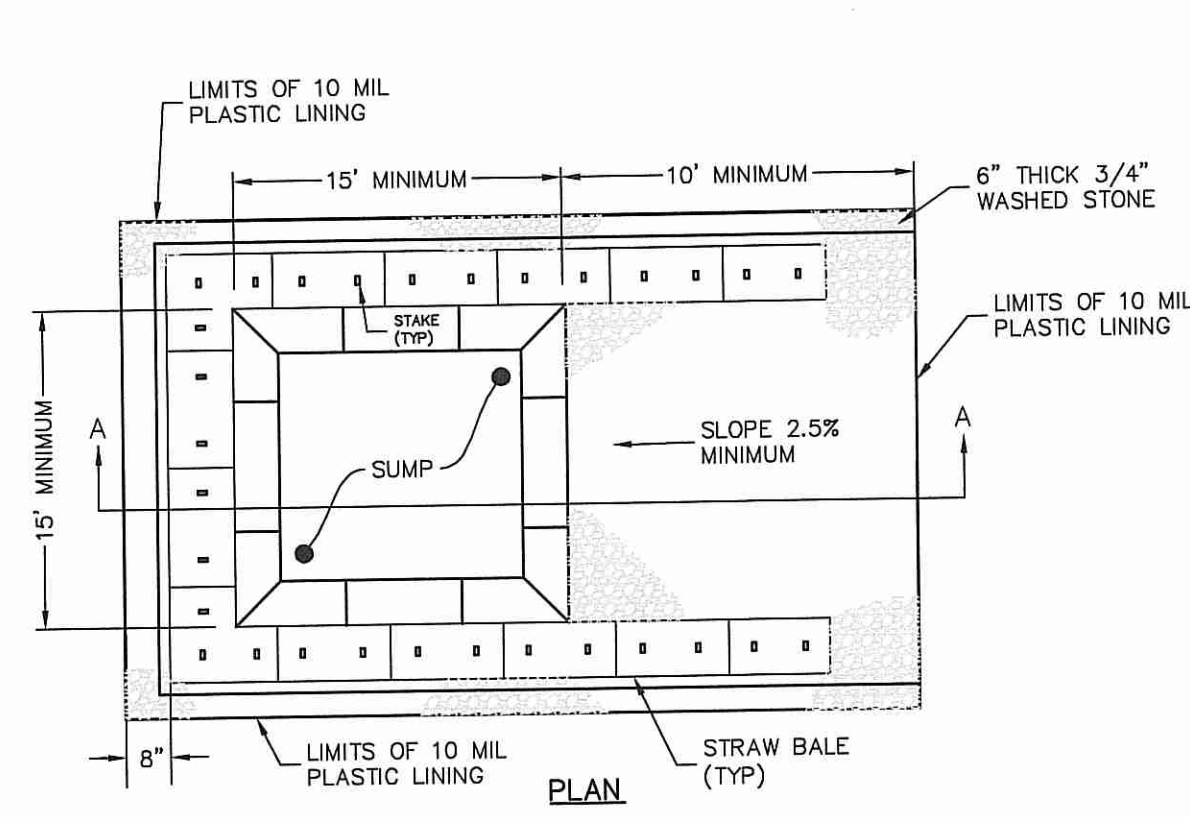


Silt Fence Detail
NOT TO SCALE



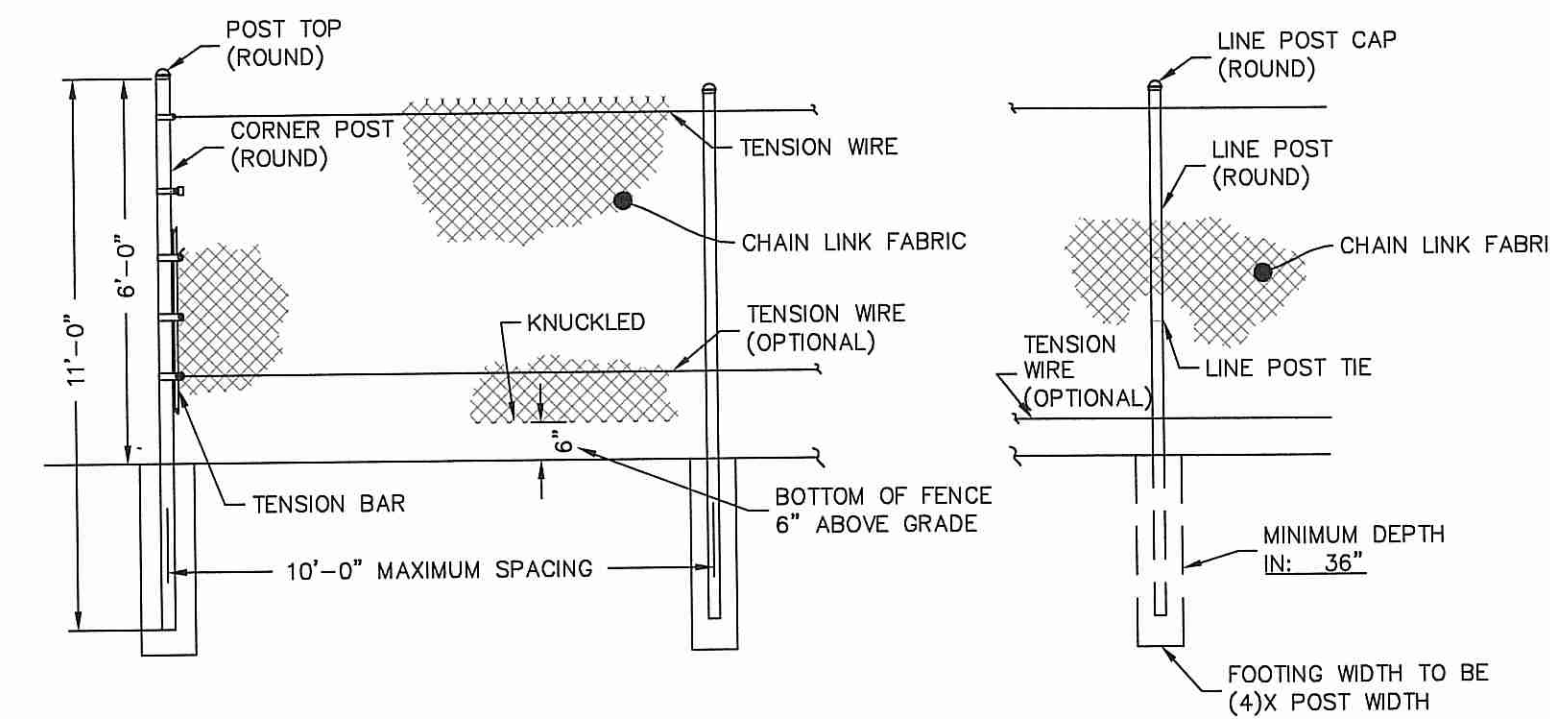
NOTE:
EROSION CONTROL BARRIER TO BE INSTALLED PER MANUFACTURERS SPECIFICATIONS

Straw Wattle Sediment Barrier
NOT TO SCALE



Concrete Washout Area
(NOT TO SCALE)

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



Typical High Fence
NOT TO SCALE

ROUND END POSTS, WITHOUT TOP RAIL & WITHOUT BARBED WIRE

DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel: 401-993-1000 fax: 401-664-6066 www.diprete-eng.com
Boston • Providence • Newport

DAVID A. RUSSO
No. 4305
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, techniques, procedures, and OSHA compliance in the implementation of this plan and design.

No.	Date	Description	By:	Design By: J.A.R.
1	12-18-2018	Permitting/Regulatory Submission	J.A.R.	J.A.R.
2	12-18-2018	Final Construction Submission	J.A.R.	J.A.R.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
CRANFORD WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED DEC 31, 2018 FILE # 18-0285
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Jonathan D. Wenzel

Detail Sheet
K & K Beach Club Solar
Middletown, Rhode Island
Applicant: **Econox Renewables, Inc.**
48 Waterfield Road, P.O. Box 808
Winchester, MA 01890
DE Job No: 2612-001. Copyright: 2018 by DiPrete Engineering Associates, Inc.