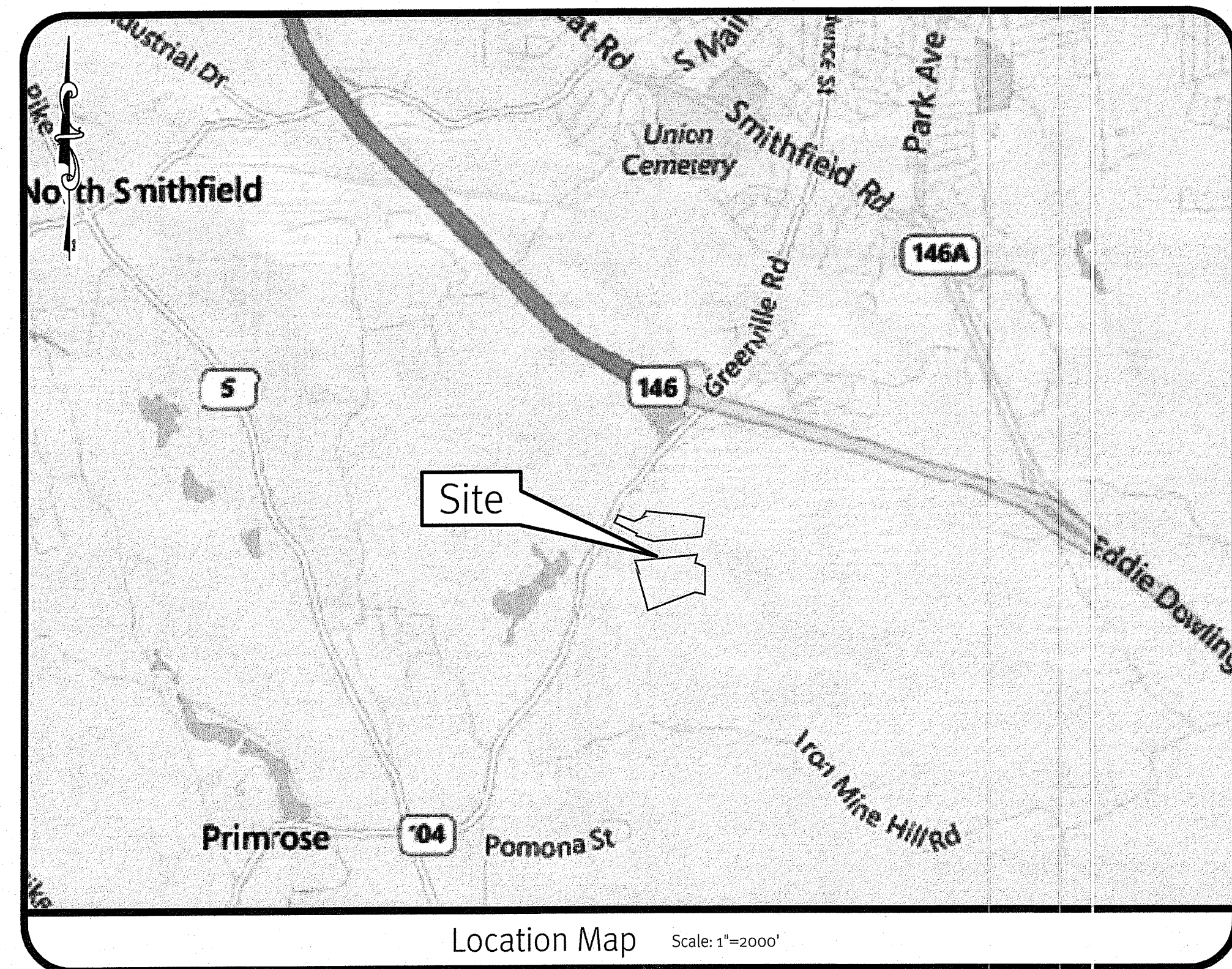


RIDEM Preliminary Determination Submission

Grand Banks Solar

North Smithfield, Rhode Island 02896

Assessor's Plat 12 Lots 156 & 156-A

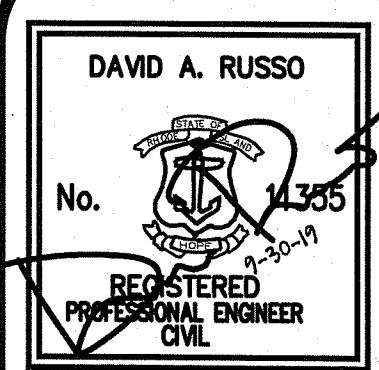


Sheet Index

- 1 Cover Sheet
- 2 Aerial Half-Mile Radius and USGS Map
- 3 Existing Analysis Plan
- 4 Soil Erosion and Sediment Control Plan
- 5 Site Layout Plan
- 6 Drainage Details
- 7 Detail Sheet

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED FEB 7 2019 FILE # 19-0273
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Signature

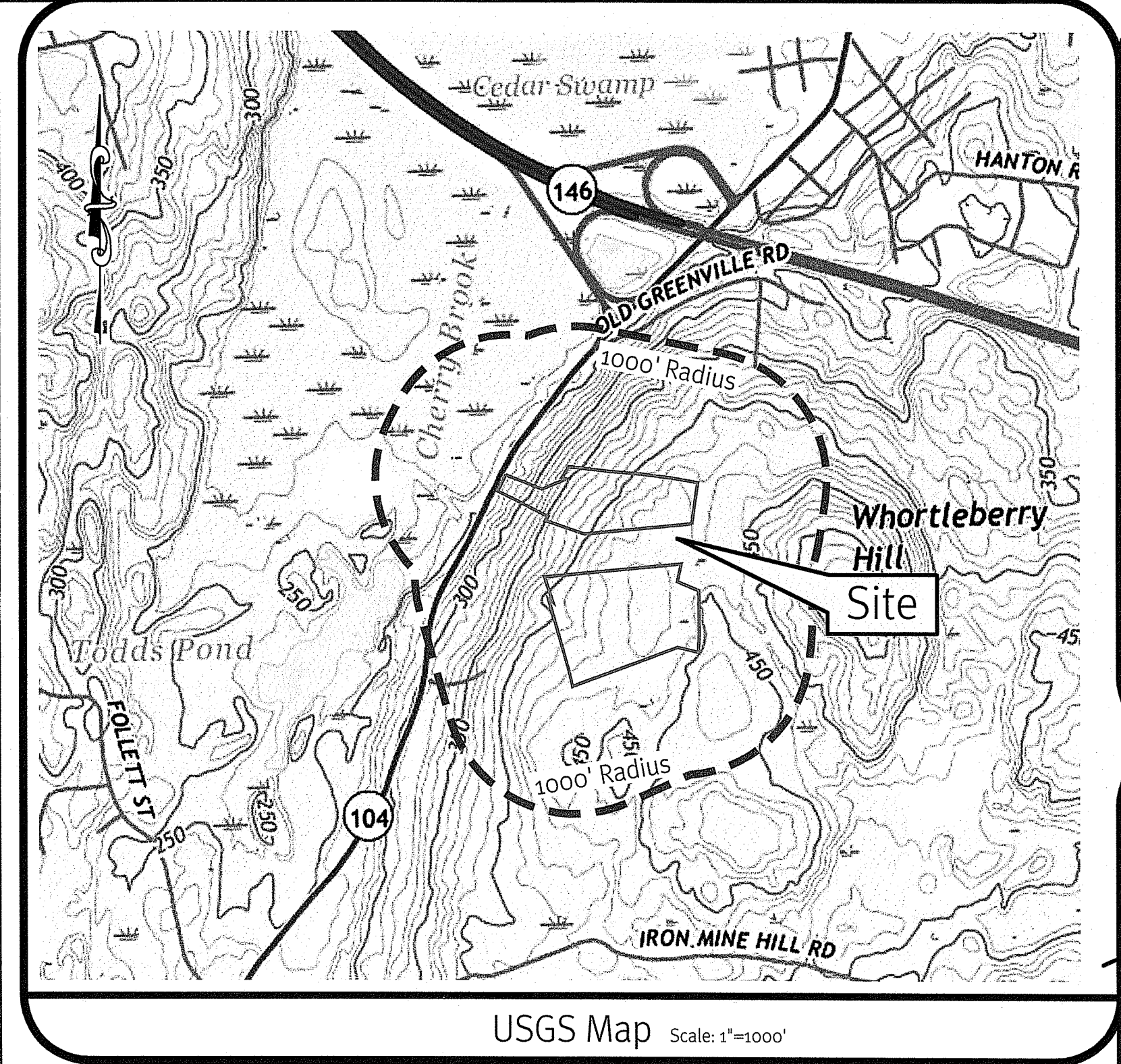
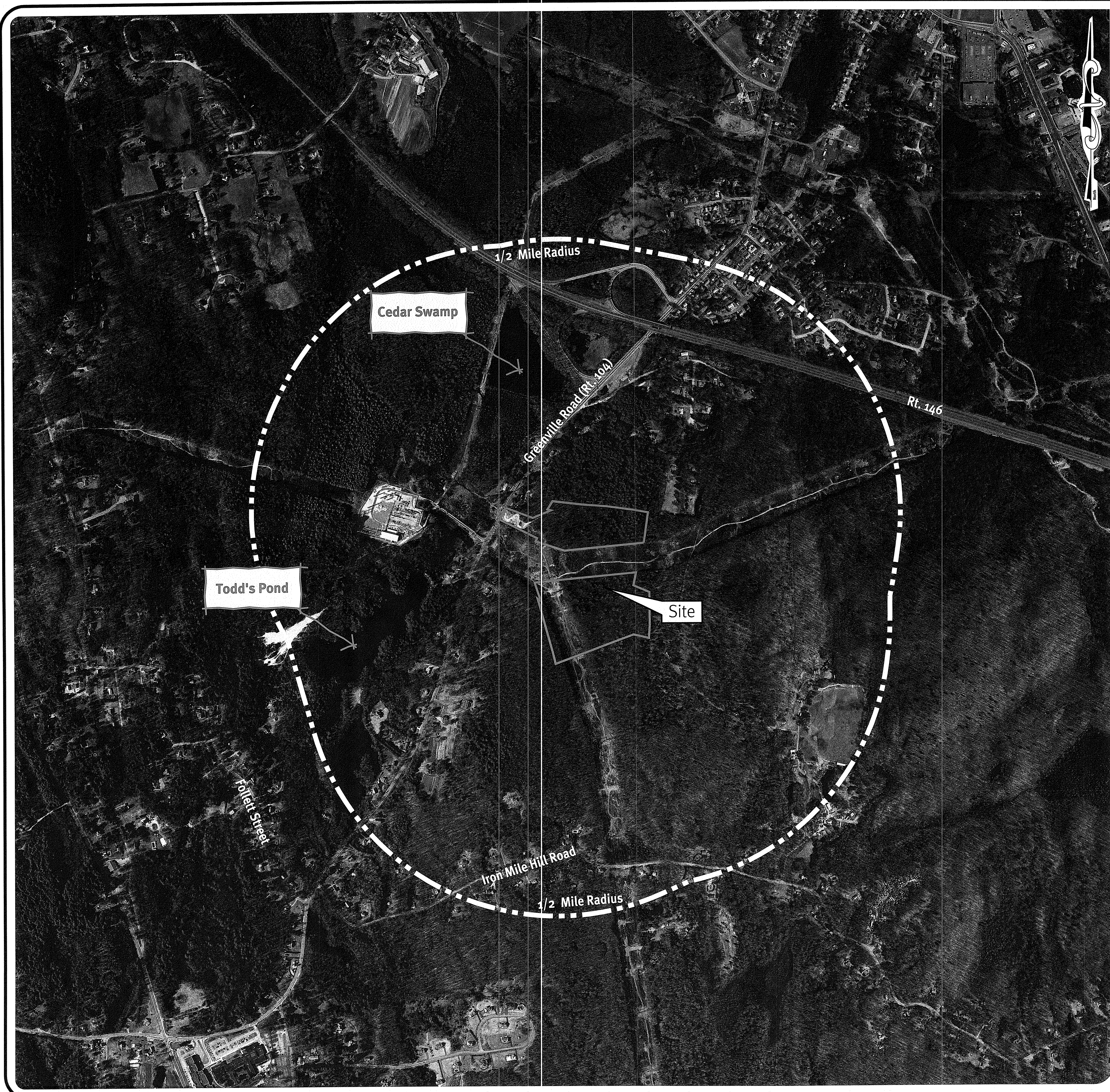


No.	Date	Description	Drawn By: M.A.H.	Design By: D.A.R.
1	08-06-2018	RIDEM Preliminary Determination Submission		
2	08-06-2018	Preliminary Plan Submission		

Cover Sheet
Grand Banks Solar
 Assessor's Plat 12 Lots 156 & 156A
 North Smithfield, Rhode Island 02896
Econox Renewables, Inc.
 48 Waterfield Road, P.O. Box 808
 Wrentham, MA 02590

z:\dmain\projects\2612-005 grand banks solar\autocad drawings\2612-005-cvr.dwg Plotted: 10/7/2019

c:\hemain\projects\2612-005 grand banks solar\unaccu drawings\2612-005-over.dwg Plotter: 10/1/2019



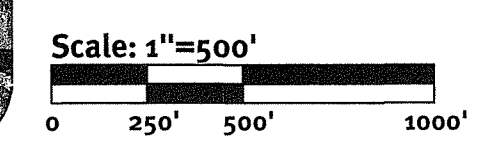
USGS Map Scale: 1"=1000'

Environmental Management
 OCT 4 2019
 Office of Water Resources

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
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David A. Russo

Photo Obtained from the RIGIS 2014 database.



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 Boston • Providence • Newport

DAVID A. RUSSO
 No. 1335
 REGISTERED PROFESSIONAL ENGINEER CIVIL

No.	Date	Description	Drawn By	Checked By	Design By
1	09-30-2019	Initial Preliminary Determination Submission			D.A.R.
2	01-07-2020	Final Submission			D.A.R.

Aerial Half-Mile Radius and USGS Map
Grand Banks Solar
 48 Waterfield Road, P.O. Box 808
 North Smithfield, Rhode Island 02896
Econox Renewables, Inc.
 DE Job No: 2612-005 Copyright: 2019 by Diprete Engineering Associates, Inc.



General Notes:

1. THE SITE IS LOCATED ON THE TOWN OF NORTH SMITHFIELD, RHODE ISLAND ASSESSOR'S PLAT 12 LOTS 156 AND 156-A.
2. AP 12 LOT 156 IS APPROXIMATELY 11.6 ACRES AND AP 12 LOT 156-A IS APPROXIMATELY 18.92 ACRES. BOTH LOTS ARE ZONED RURAL RESIDENTIAL (RR) (ALSO KNOWN AS RA AND RA-65 IN ZONING ORDINANCE).
3. THE OWNER OF AP 12 LOTS 156 AND 156-A IS: GRAND BANKS COMMERCE PARK LLC, PO BOX 663, SLATERSVILLE, RI 02876
4. THIS SITE IS LOCATED IN FEMA FLOOD ZONE X UNSHADED. ZONE X UNSHADED AREAS ARE DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN. REFERENCE FEMA FLOOD INSURANCE RATE MAP 4407001805, 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. THE SITE IS WITHIN A: NATURAL HERITAGE AREA (RIDEM)
THE SITE IS NOT WITHIN A: GROUNDWATER PROTECTION OVERLAY DISTRICT (TOWN)
7. 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 IS CORRECT TO THE BEST OF OUR BELIEF.
8. WETLAND AREAS PROVIDED BY RIDEM ENVIRONMENTAL RESOURCE MAP.

Plan Reference:

THIS PLAN HAS BEEN COMPILED FROM PLAN ENTITLED: "GARY EZOVSKI, AP 12 LOT 156A, GREENVILLE ROAD, OWNED BY: GRAND BANKS COMMERCE PARK, LLC, NORTH SMITHFIELD, RHODE ISLAND, EXISTING CONDITIONS" BY NATIONAL SURVEYORS-DEVELOPERS, INC., WOONSOCKET, RI DATED 11-12-2018 SCALE 1" = 60'

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	~~~~~
WETLAND EDGE AND FLAG	———
WETLAND HATCH	▨
50' PERIMETER WETLAND	———
100' RIVERBANK WETLAND	———
STREAM	———
SOIL LINE AND DESIGNATION	HkC CaD
STONE WALL	———
OVERHEAD ELECTRIC WIRE	———

Soil Information:

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

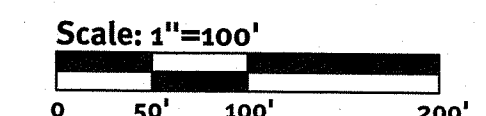
SOIL NAME	DESCRIPTION
CeC	CANTON AND CHARLTON FINE SANDY LOAMS, VERY ROCKY, 3 TO 15 PERCENT SLOPES
ChB	CANTON AND CHARLTON VERY STONY FINE SANDY LOAMS, 3 TO 8 PERCENT SLOPES
ChD	CANTON AND CHARLTON VERY STONY FINE SANDY LOAMS, 15 TO 25 PERCENT SLOPES
Rf	RIDGEBURY, WHITMAN, AND LEICESTER EXTREMELY STONY FINE SANDY LOAMS

Environmental Management
OCT 4 2019
Office of Water Resources

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
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Signature



DiPrete Engineering
Two Stafford Court Cranston, RI 02920
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DAVID A. RUSSO
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REGISTERED PROFESSIONAL ENGINEER
CIVIL

No.	Date	Description	By
1	09-10-2019	RRM Preliminary Determination Submission	L.A.S.
2	03-02-2020	Preliminary Plan Submission	M.A.H.
3			
4			

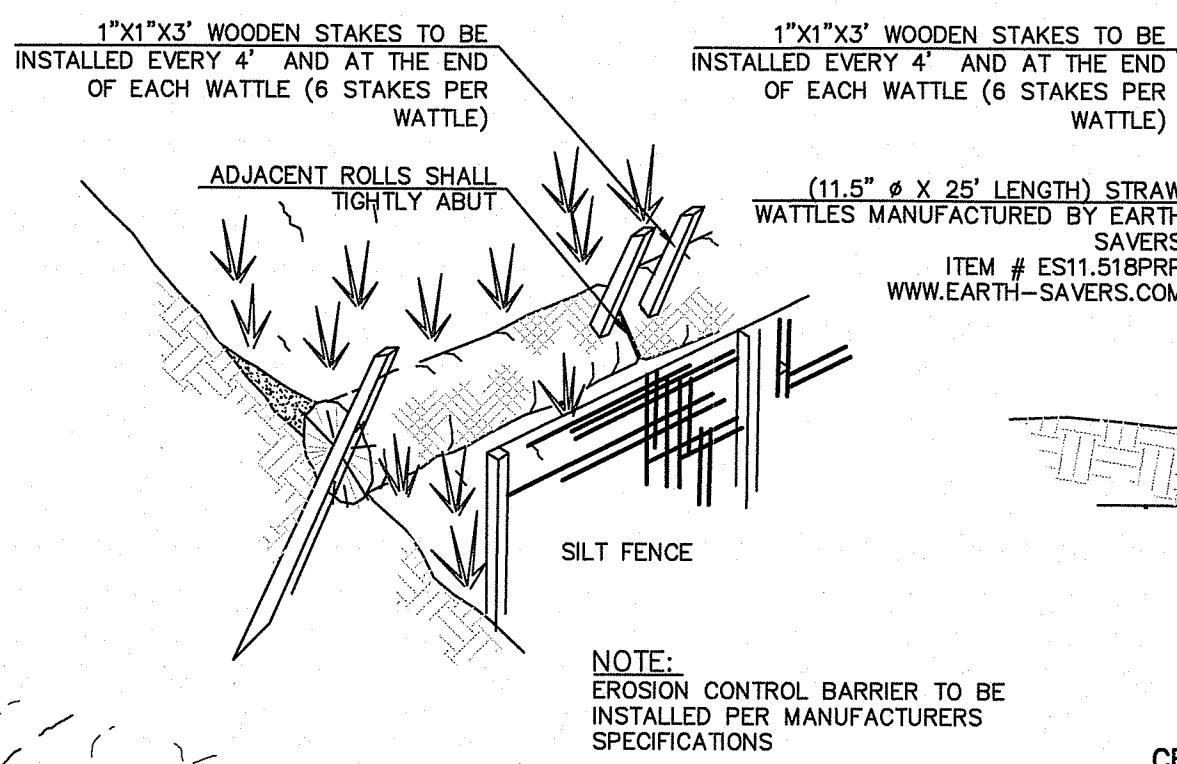
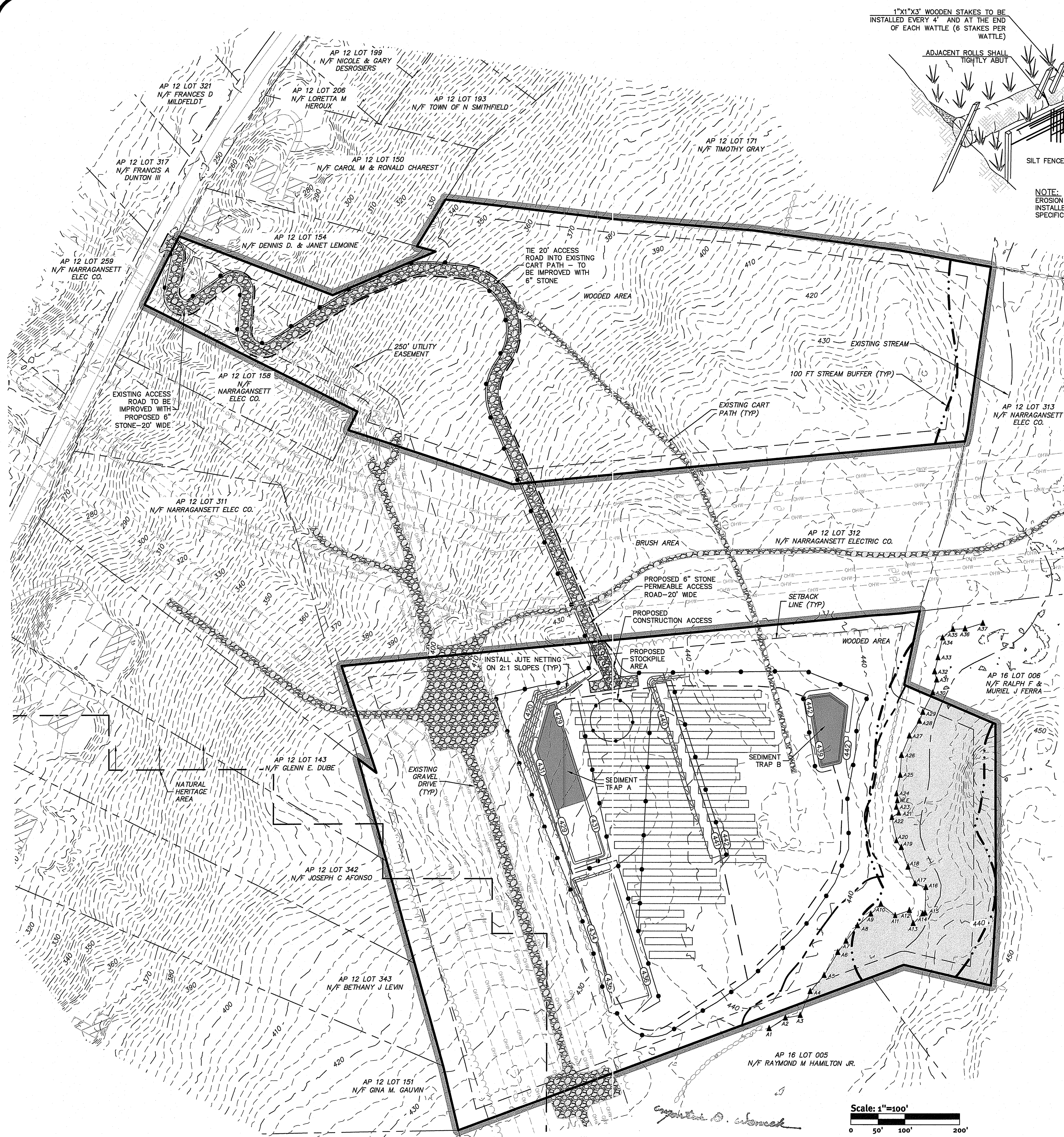
Design By: D.A.R.
Drawn By: M.A.H.

Existing Analysis Plan
Grand Banks Solar
Assessor's Plat 12, Lots 156 & 156A
North Smithfield, Rhode Island 02896

Econox Renewables, Inc.
48 Waterfield Road, P.O. Box 608
Winchester, MA 01890

DE-ENR-2019-005 Copyright 2019 by DiPrete Engineering Associates, Inc.

z:\deman\projects\2012-005 grand banks solar\landuse\drawings\2012-005-plan.dwg Plotter: 10/1/2019

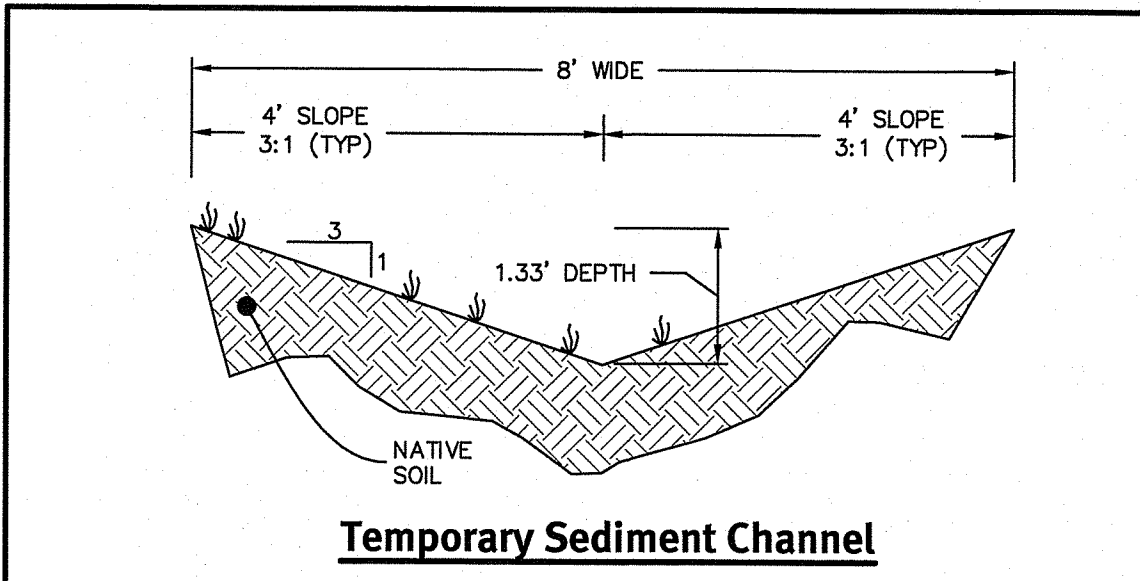


Silt Fence/Straw Wattle Sediment Barrier
NOT TO SCALE

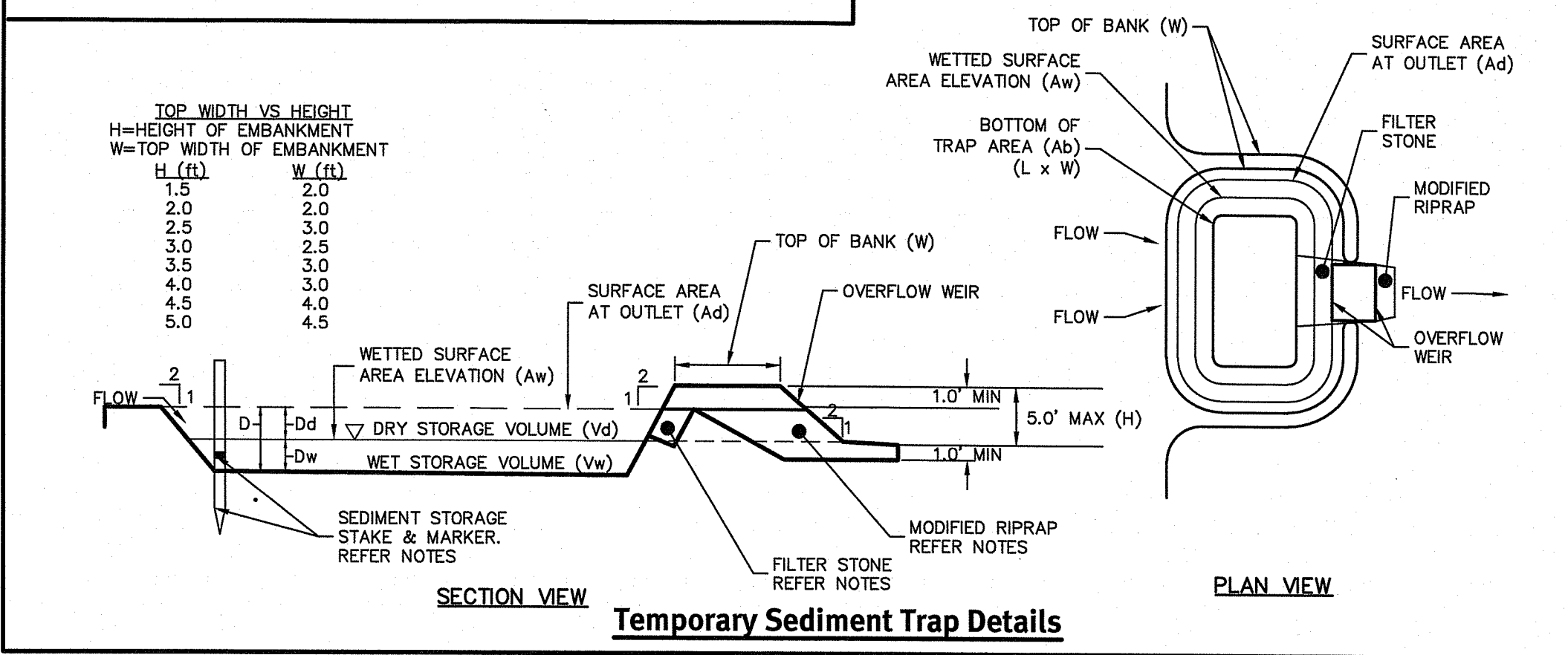
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

Legend:

- DIVERSION CHANNEL/BERM
- SILT FENCE
- LIMIT OF DISTURBANCE
- APPROXIMATE PHASE LINES (5 ACRE MAX)
- TEMPORARY SEDIMENT TRAPS
- PR FOOT CONTOUR
- CONSTRUCTION ENTRANCE (RIDOT STD 9.8.0)
- 2:1 SLOPES



SEDIMENT TRAP DIMENSIONS	TRAP A	TRAP B
TRIBUTARY DRAINAGE AREA	3,994 AC	3,056 AC
WET STORAGE DEPTH (Dw)	1.00 FT	1.00 FT
DRY STORAGE DEPTH (Dd)	1.00 FT	1.5 FT
TOTAL DEPTH (D)	2.00 FT	2.5 FT
BOTTOM OF TRAP AREA (Ab)	8,060 SQFT	5,235 SQFT
WETTED SURFACE AREA (Aw)	8,942 SQFT	6,213 SQFT
SURFACE AREA AT OUTLET (Ad)	9,855 SQFT	6,896 SQFT



Section View
Temporary Sediment Trap Details

Erosion Control Notes:

- ALL EROSION CONTROL, TEMPORARY SWALES, TEMPORARY SEDIMENT TRAPS, ETC. SHALL BE INSTALLED PER THE RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL, LATEST EDITION AND THE SOIL EROSION SEDIMENTATION CONTROL (SESC) PLAN BY DIPRETE ENGINEERING, LATEST REVISION.
- SEE SECTION 2.2 OF THE SESC PLAN BY DIPRETE ENGINEERING, LATEST REVISION, FOR PROJECT PHASING & SEQUENCE OF CONSTRUCTION ACTIVITY.
- CONSTRUCTION STORAGE AREAS MAY BE RELOCATED WITH APPROVAL FROM THE ENGINEER OF RECORD AND THE GENERAL CONTRACTOR.
- CONTRACTOR SHALL STABILIZE AREAS PER THE SESC PLAN. AREAS MAY BE STABILIZED WITH SEEDING, STONE, JUTE MESH, SOILTAC, OR APPROVED EQUAL.
- CLEARING AND GRUBBING IS NOT TO EXTEND BEYOND THE LIMIT OF DISTURBANCE.
- THE SITE CONTRACTOR IS RESPONSIBLE FOR ALL SOIL EROSION (SILT FENCE, STRAW WATTLE, RI DOT STD 9.2.0, OR APPROVED EQUAL) AND SEDIMENT CONTROL ON SITE. THE SITE CONTRACTOR IS TO NOTIFY THE CIVIL ENGINEER, TOWN OF GLOUCESTER, AND RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
- STOCKPILE AND CONCRETE WASHOUT LOCATIONS TO BE DETERMINED BY CIVIL ENGINEER, AND SITE CONTRACTOR PRIOR TO CONSTRUCTION. NO STOCKPILING OF MATERIAL TO BE LOCATED IN RIGHT OF WAY AND NO OPEN TRENCHES ARE TO BE LEFT OVERNIGHT. ALL EXCESS SOIL, TREES, ROCKS, BRICKS, AND OTHER REFUSE, SHALL BE DISCARDED OFF SITE AS DIRECTED BY THE OWNER. IF CONCRETE TRUCKS ARE WASHED OUT ON SITE, ALL WASHOUT MUST BE COMPLETED IN THE DESIGNATED CONCRETE WASHOUT AREA.
- SITE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL. DUST CONTROL TREATMENTS SHALL BE APPLIED AS NECESSARY TO CONTROL AND REDUCE THE AMOUNT OF DUST THAT MAY CAUSE OFF SITE DAMAGE, BE A HEALTH HAZARD TO HUMANS, WILDLIFE, AND PLANT LIFE, OR RIDEM BEST MANAGEMENT PRACTICES.
- SITE CONTRACTOR TO MAINTAIN SESC PLAN DOCUMENTATION ON THE SITE THROUGHOUT THE DURATION OF THE PROJECT.
- SITE CONTRACTOR SHALL STAKEOUT AND PROTECT ANY PROPOSED INFILTRATION AREAS PRIOR TO CONSTRUCTION. CONSTRUCTION TRAFFIC SHALL BE AVOIDED WITHIN INFILTRATION AREAS. THIS INCLUDES W/ INFILTRATION BASINS A, B, C, D, & E AND STONE TRENCH. AREAS SHALL BE PROTECTED FROM RUNOFF DURING CONSTRUCTION AND SHALL BE AVOIDED AS TEMPORARY SEDIMENTATION AREAS DURING CONSTRUCTION TO THE EXTENT PRACTICABLE. SILT FENCE OR EQUAL SHALL BE USED TO PROTECT INFILTRATION AREAS FROM RUNOFF. CONSTRUCTION FENCING CAN BE USED TO PROTECT AREAS FROM CONSTRUCTION TRAFFIC.
- IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, ALL DISTURBED AREAS INCLUDING THE CONTRACTOR'S STOCKPILE AND STAGING AREAS SHALL BE RESTORED TO MATCH THE DESIGN PLANS OR PRE-CONSTRUCTION CONDITIONS.
- SEQUENCE OF CONSTRUCTION PROVIDED IN SESC PLAN SHALL BE MODIFIED AS FIELD CONDITIONS WARRANT WITH PRIOR APPROVAL FROM THE OWNER OR OWNER'S REPRESENTATIVE AND THE ENGINEER OF RECORD.
- ALL LOAM IN DISTURBED AREAS IS TO BE STOCKPILED FOR FUTURE USE.
- STUMPS SHALL BE GROUND AND USED ONSITE OR REMOVED. NO STUMP DUMPS ARE ALLOWED ONSITE.
- APPROXIMATE PHASE LINES AND SEDIMENT TRAP LOCATIONS ARE SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD FIT AND DETERMINE ACTUAL SEDIMENT TRAP SIZES ALONG WITH ALL NECESSARY DIVERSION BERMS, SWALES, SILT FENCES OR OTHER APPROPRIATE SEDIMENT CONTROL MEASURES.
- EACH PROPOSED TEMPORARY SEDIMENT TRAP SHOWN SHALL BE DESIGNED TO ACCOMMODATE DRAINAGE FROM CONTRIBUTING AREAS RANGING FROM 1 TO 5 ACRES.
- ONCE ALL EARTHWORK, TREE CLEARING, STUMPING AND ROUGH BMP CREATION HAS OCCURRED THE CONTRACTOR SHALL PROPERLY CLOSE LINED SEDIMENT TRAPS AND DIVERSION CHANNELS. THIS CAN BE ACCOMPLISHED BY REMOVING AND PROPERLY DISPOSING OF SEDIMENT THE LINED TRAP HAS GATHERED AND FILING IN THE TRAP WITH AVAILABLE LOAM, TOPSOIL, OR OTHER MATERIAL APPROVED BY THE ENGINEER OF RECORD.
- ONCE REMOVED, THE CONTRACTOR SHALL SCARIFY THE BOTTOM OF THE LINED TRAP UNDER THE SUPERVISION OF THE ENGINEER OF RECORD TO ENSURE INFILTRATION CAN OCCUR IN BMP AREAS REQUIRING SUCH.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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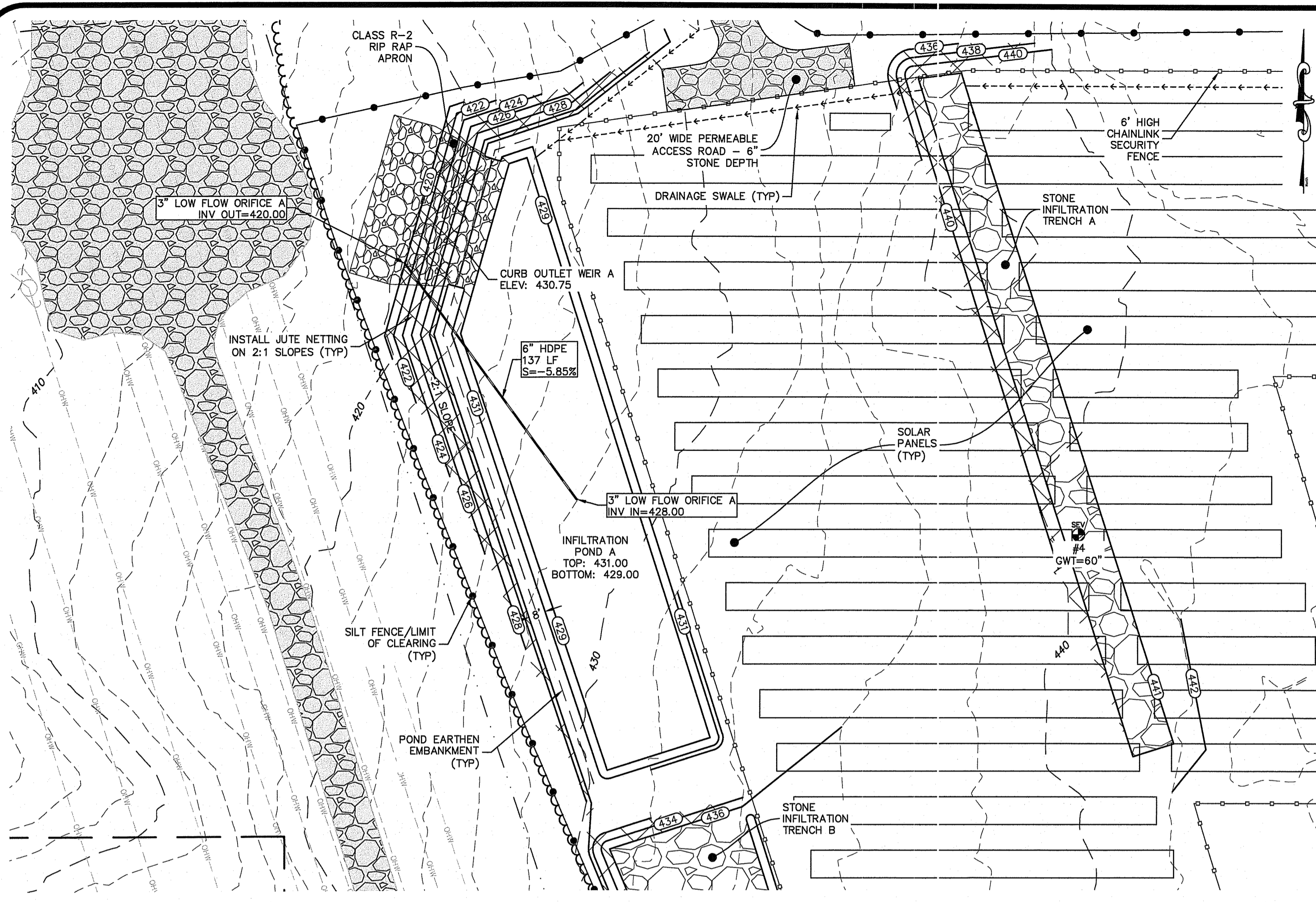
DiPrete Engineering
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DAVID A. RUSSO
No. 14355
REGISTERED PROFESSIONAL ENGINEER
CIVIL

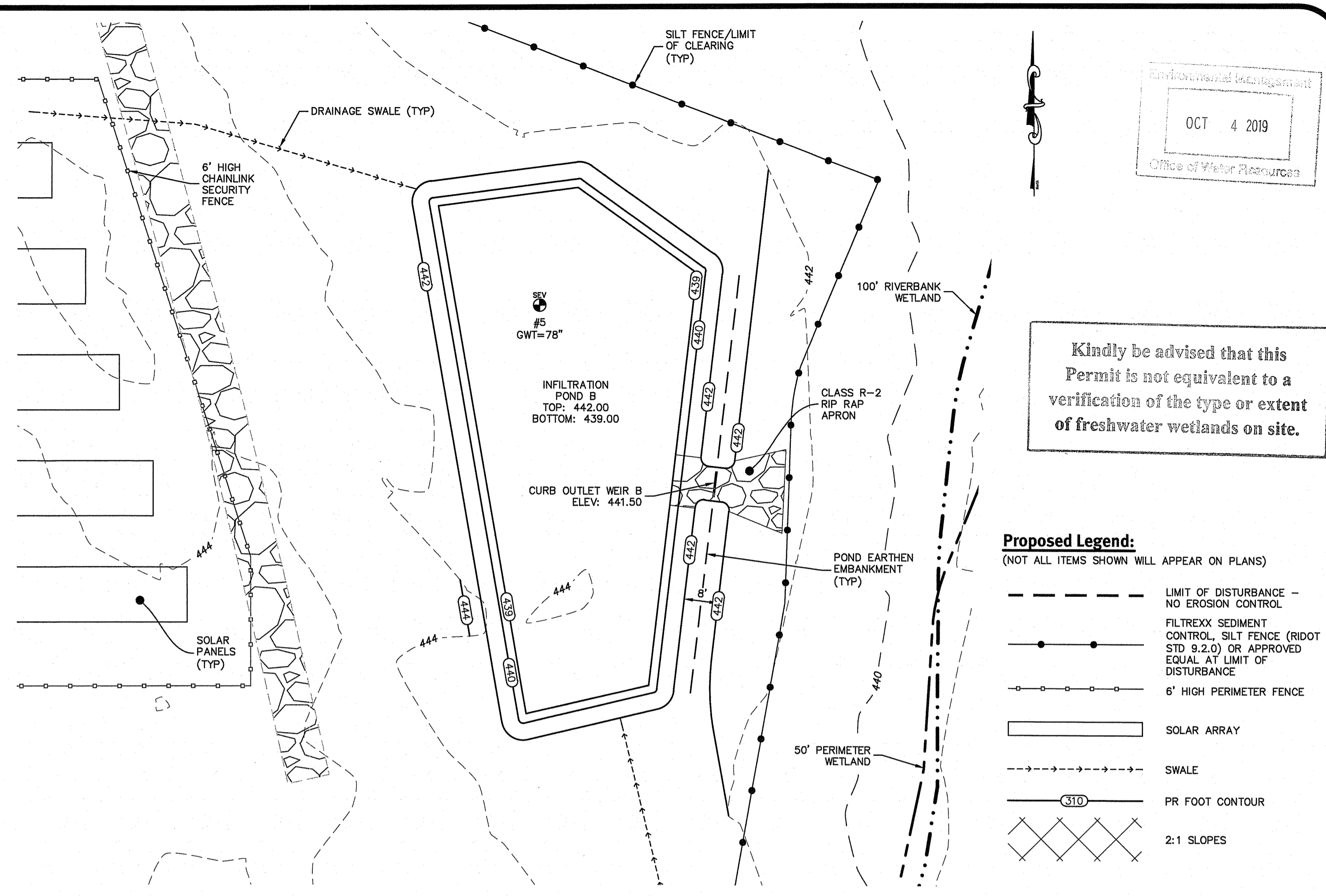
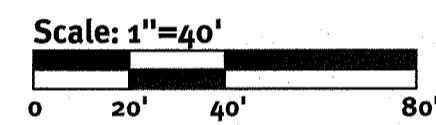
OCT 4 2019
Office of Water Resources

No.	Date	Description	Drawn By: M.A.H.	By:
1	05-05-2020	PRISTINE Wetland Inventory (Mammals, Birds, Salamanders)	L.A.R.	
2	05-05-2020	PRISTINE Wetland Inventory (Mammals, Birds, Salamanders)	M.A.H.	
3	05-05-2020	PRISTINE Wetland Inventory (Mammals, Birds, Salamanders)	M.A.H.	

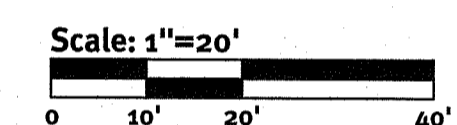
Soil Erosion and Sediment Control Plan
Grand Banks Solar
Assessor's Plat 12, Lots 156 & 156A
North Smithfield, Rhode Island 02896
Econox Renewables, Inc.
48 Waterfield Road, P.O. Box 808
Winchester, MA 01890



Infiltration Pond A



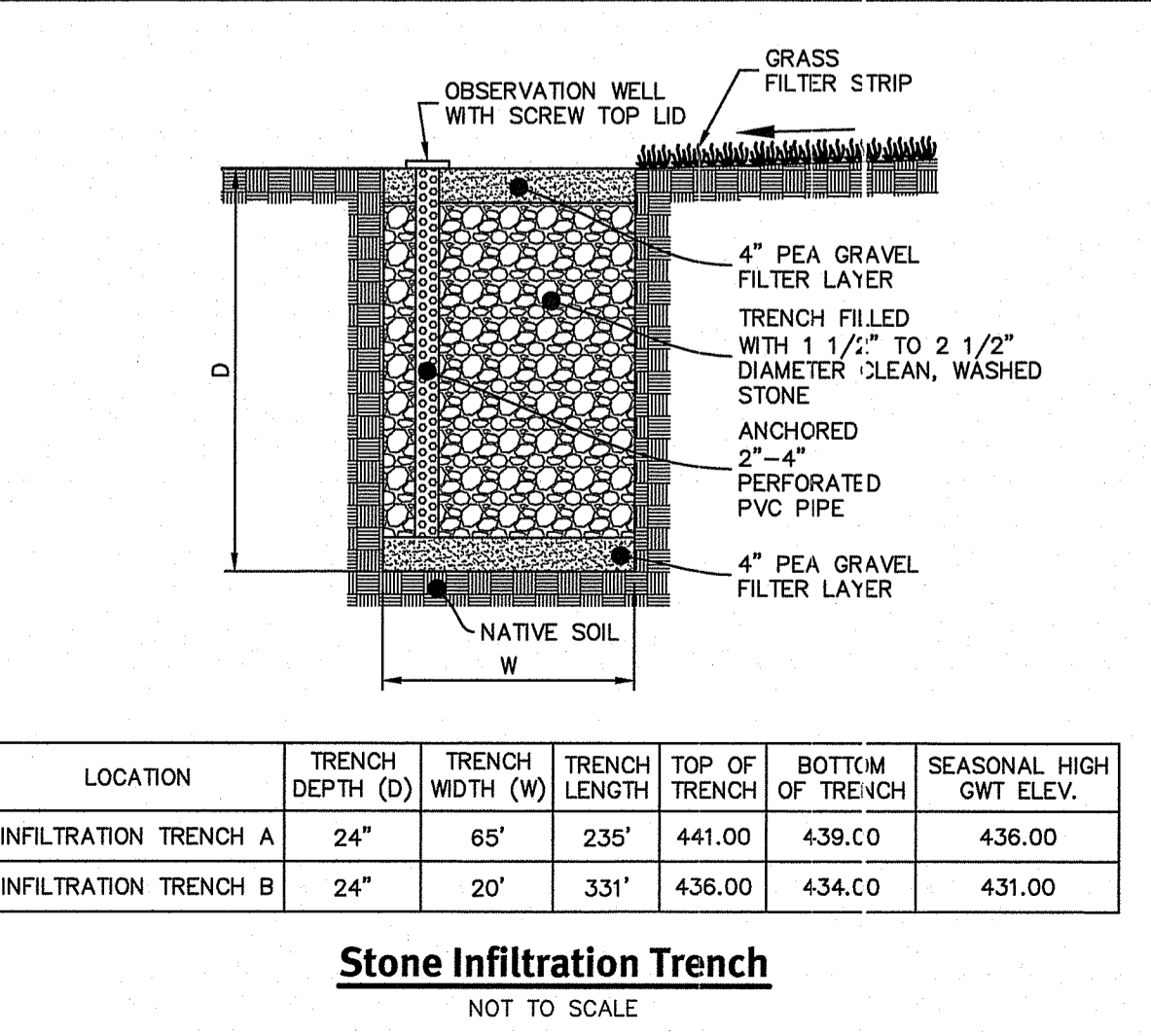
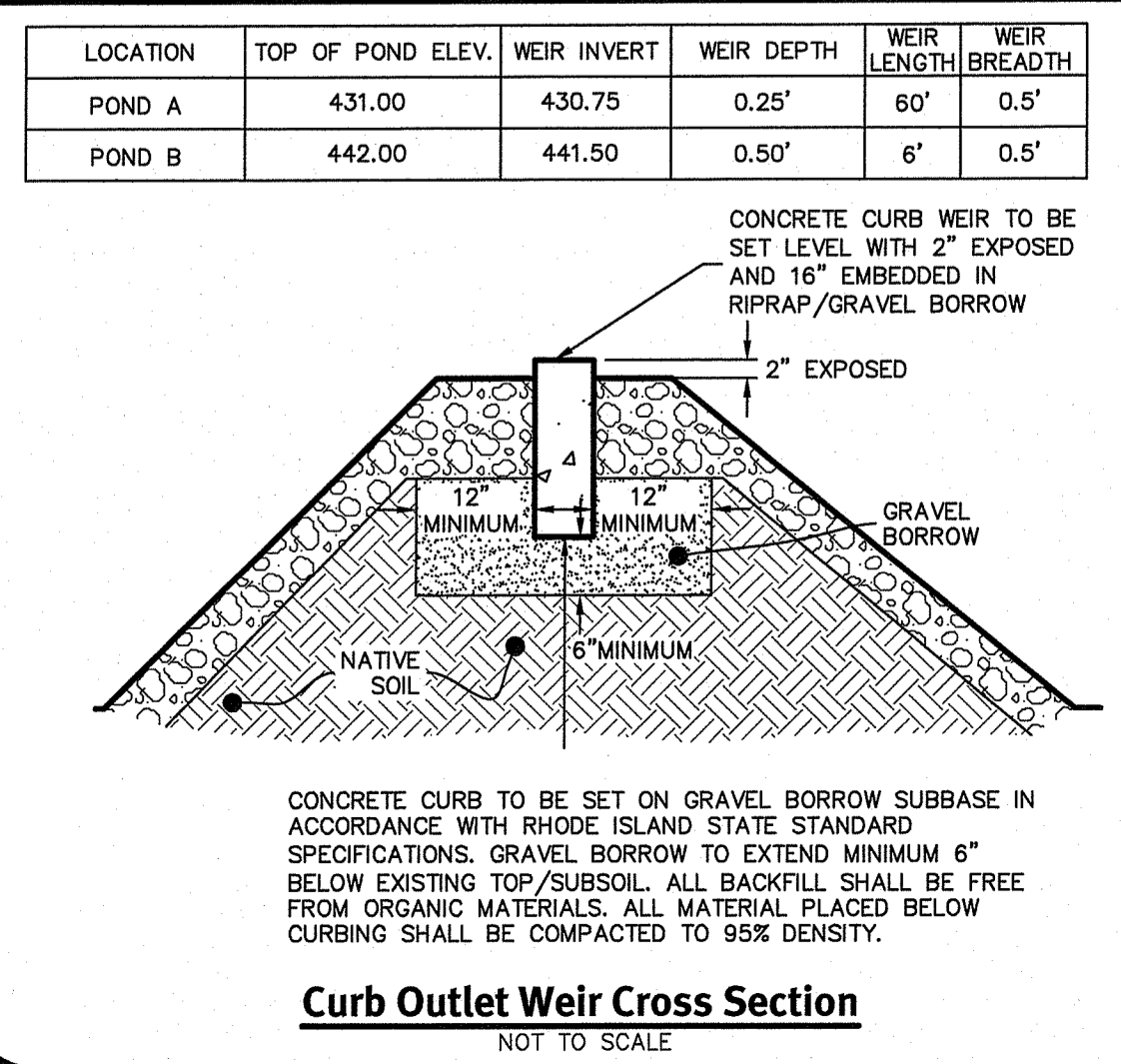
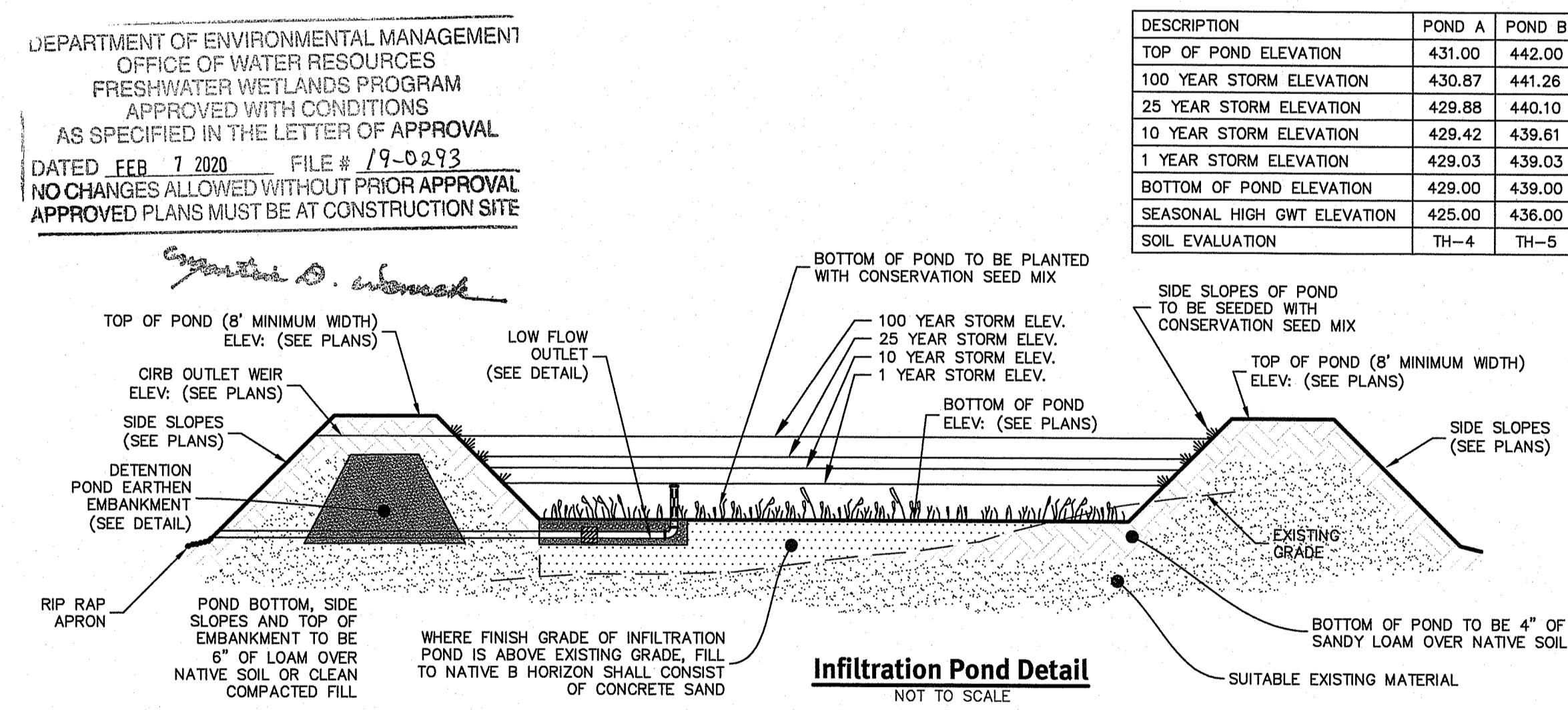
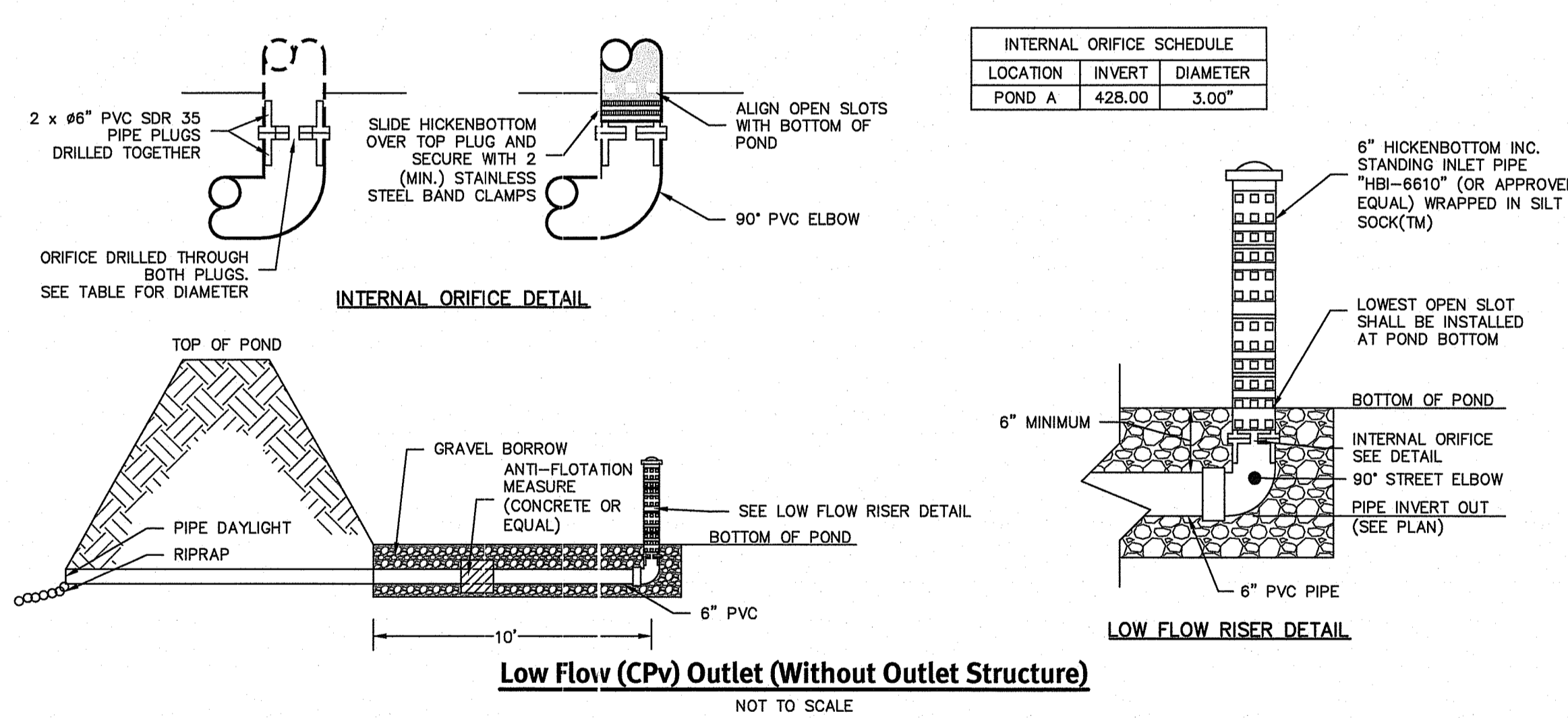
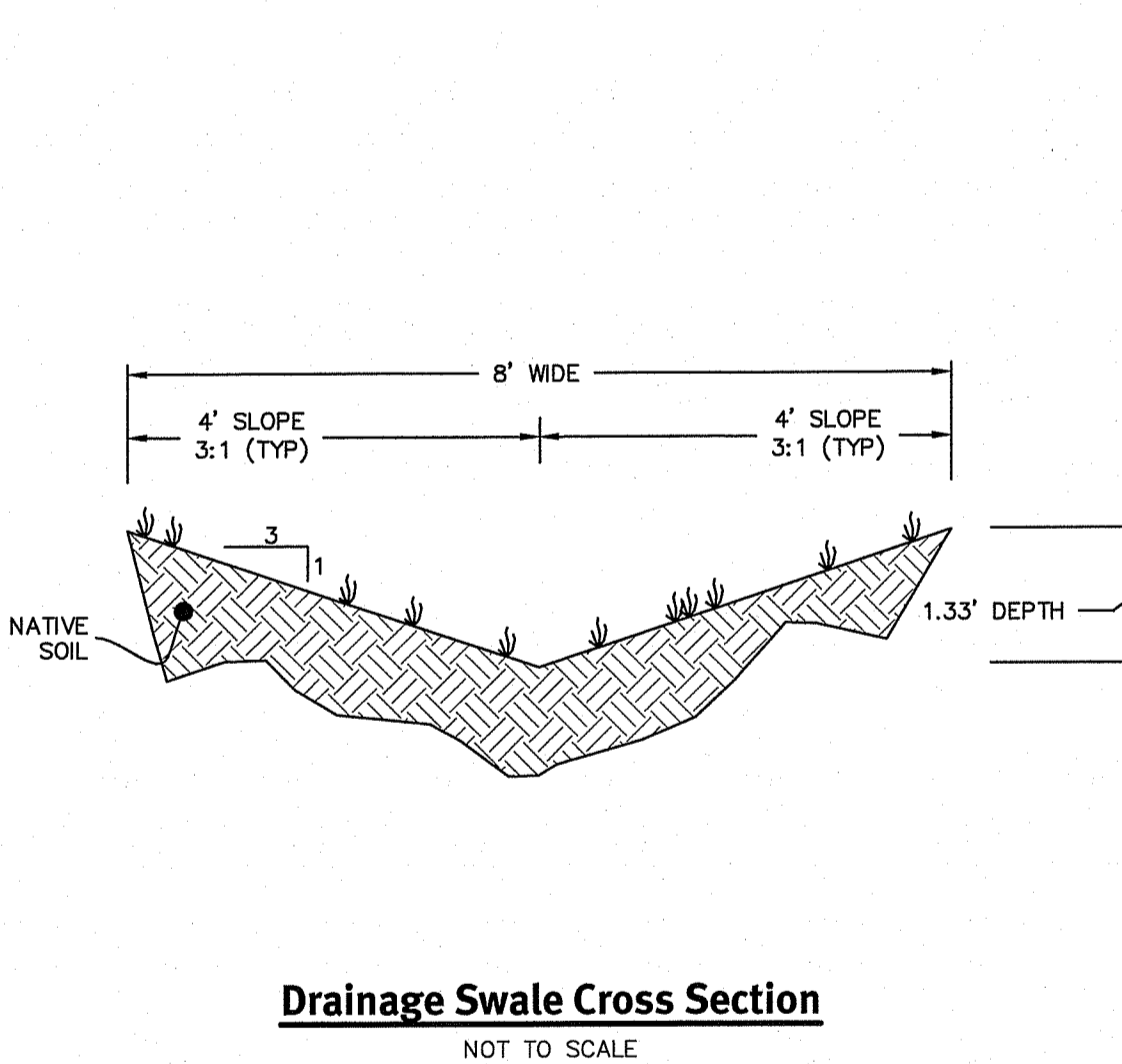
Infiltration Pond B



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

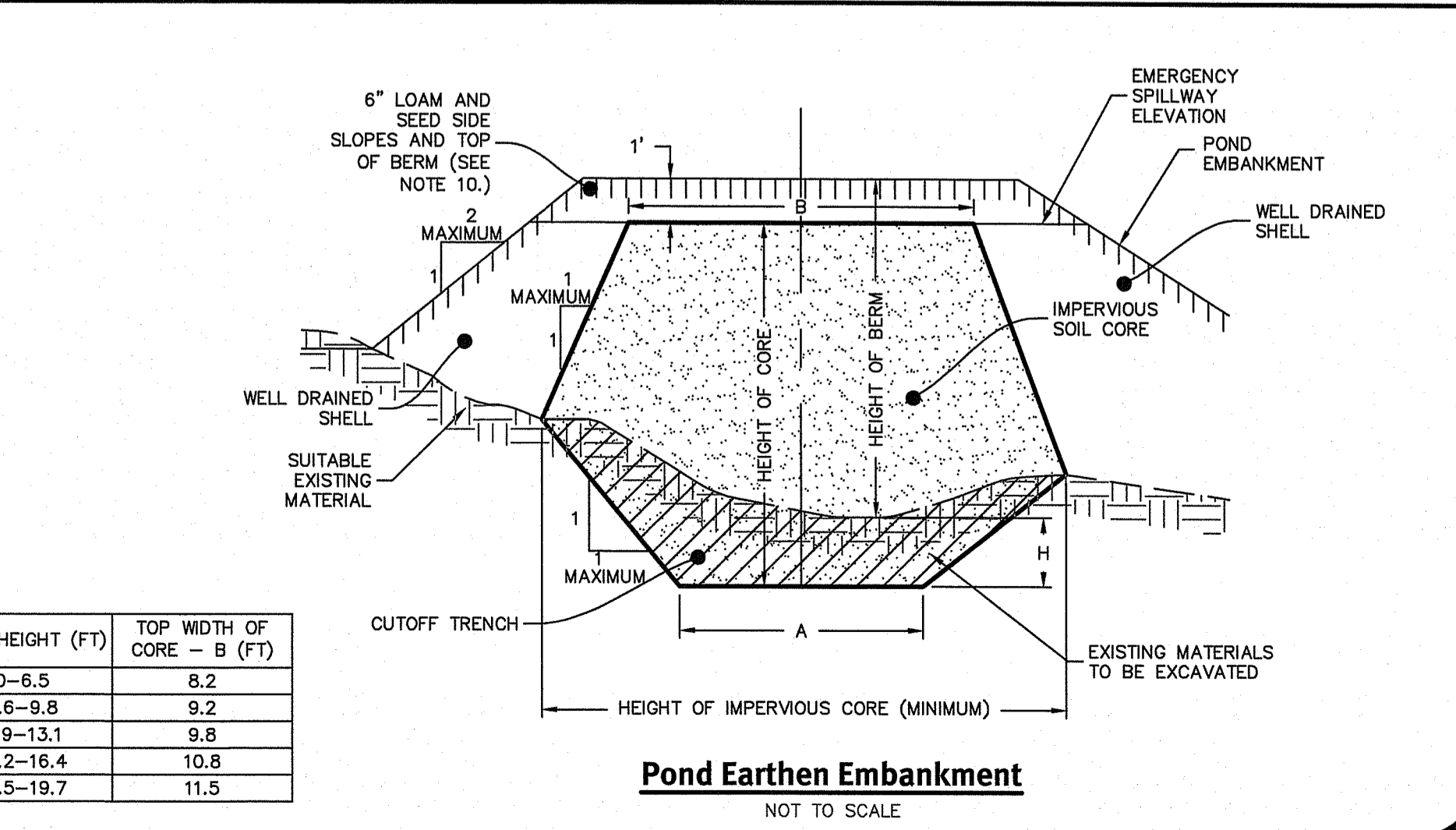
Proposed Legend:

- (NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS)
- - - - - LIMIT OF DISTURBANCE - NO EROSION CONTROL
 - - - - - FILTEREX SEDIMENT CONTROL, SILT FENCE (RIDOT STD 9.2.0) OR APPROVED EQUAL AT LIMIT OF DISTURBANCE
 - - - - - 6' HIGH PERIMETER FENCE
 - ▭ SOLAR ARRAY
 - - - - - SWALE
 - PR FOOT CONTOUR
 - ▧ 2:1 SLOPES



NOTES:

- IMPERVIOUS SOIL CORE TO BE PROVIDED FOR ALL POND EMBANKMENTS.
- IMPERVIOUS SOIL CORE TO BE CONSTRUCTED OF A MATERIAL WITH A MINIMUM OF 55% PASSING THE #200 SIEVE AND A MAXIMUM PERMEABILITY OF 0.00005 CM/S.
- WELL DRAINED SHELL TO BE CONSTRUCTED OF GRAVEL AND/OR SAND WITH LESS THAN 5% PASSING THE #200 SIEVE.
- MINIMUM DEPTH OF CUTOFF TRENCH (H) SHALL BE 3/4 OF THE TOTAL BERM HEIGHT.
- THE IMPERVIOUS CORE AT A MINIMUM SHALL EXTEND UP BOTH ABUTMENTS TO THE EMERGENCY SPILLWAY ELEVATION.
- THE MINIMUM BOTTOM WIDTH (A) SHALL BE 5'-8", AND WIDE ENOUGH TO PERMIT OPERATION OF COMPACTION EQUIPMENT.
- SIDE SLOPES OF THE TRENCH SHALL BE NO STEEPER THAN 1:1.
- IF BEDROCK IS ENCOUNTERED BELOW THE DAM THE CUT OFF TRENCH CAN BE REDUCED TO 1'x1' (A_W)
- COMPACTION REQUIREMENTS FOR THE SHELL AND IMPERVIOUS CORE TO BE 95% OF THE MODIFIED PROCTOR PER ASTM D1557. ALL FILL TO BE PLACED IN LIFTS NOT EXCEEDING 12".
- SIDE SLOPE OF POND EMBANKMENT TO BE 2:1 MAXIMUM. IF SIDE SLOPES ARE STEEPER THAN 3:1, SLOPE PROTECTION MUST BE UTILIZED ON POND EMBANKMENT. THIS INCLUDES, BUT NOT LIMITED TO, RIPRAP AND EROSION CONTROL MATS.
- THE IMPERVIOUS CORE SHALL BE KEPT FREE FROM STANDING WATER DURING THE BACKFILL OPERATION.
- ALL EMBANKMENTS TO BE DESIGNED BY A GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION. ALL EMBANKMENT INSTALLATIONS TO BE SUPERVISED BY A GEOTECHNICAL ENGINEER.



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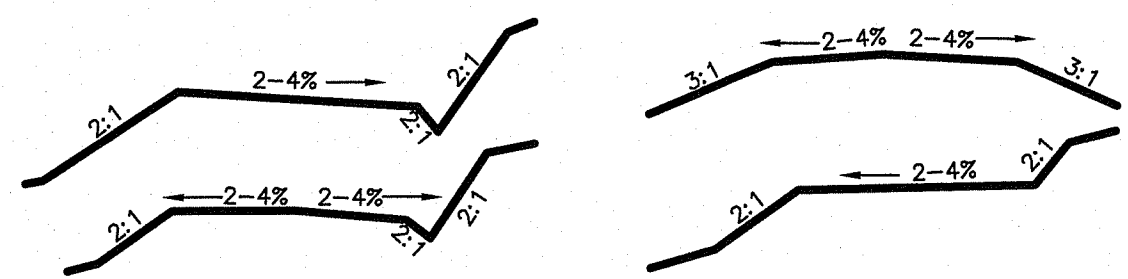
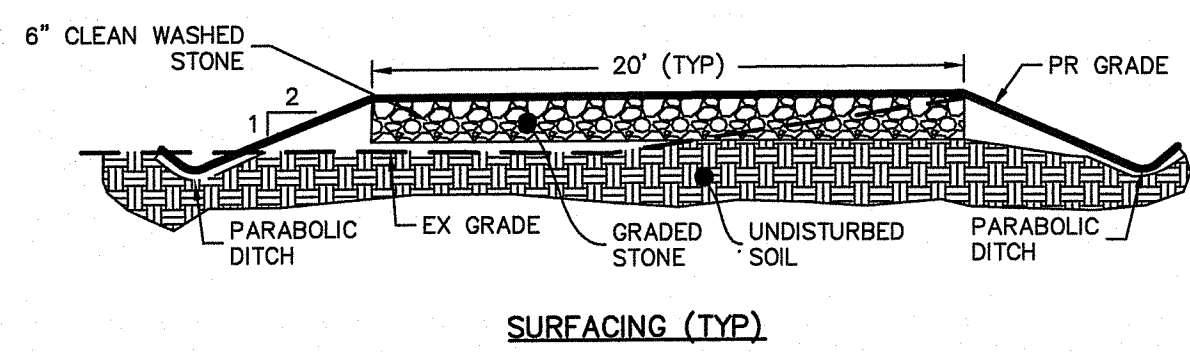
DAVID A. RUSSO
No. 1435
REGISTERED PROFESSIONAL ENGINEER CIVIL

DESIGN BY: D.A.R.
DRAWN BY: M.A.H.
CHECKED BY: M.A.H.
DATE: 10/17/2019
PROJECT: 2612-005 Grand Banks Solar
SUBMIT: 2612-005-Plan.dwg
DATE: 10/17/2019
DESCRIPTION: 2612-005-Plan.dwg

Drainage Details
Grand Banks Solar
Assessor's Plat 12 Lots 156 & 156A
North Smithfield, Rhode Island 02896

Econox Renewables, Inc.
46 Waterfield Road, P.O. Box 808
Winchester, MA 01890

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CONSTRUCTION NOTES:

A. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER AS TO MINIMIZE POTENTIAL EROSION AND WATER QUALITY DEGRADATION.

B. FIXED EROSION CONTROLS AND SITE STABILIZATION SHALL BE CONDUCTED IN ACCORDANCE WITH APPROVED BMP'S, OR PURSUANT TO PROJECT SPECIFIC PERMITS.

C. TREES, STUMPS, ROOTS, BRUSH AND WEEDS SHALL BE REMOVED FROM THE WORK AREA IF DETERMINED NECESSARY TO SAFELY CONSTRUCT ROADWAY.

D. ON WEAK BEARING SOIL, SUCH AS LOOSE ALLUVIAL, OR WETLAND SOILS, SURFACE TREATMENTS SHOULD BE UNDERLAIN WITH WOVEN GEOTEXTILES.

E. AT MINIMUM, ROADSIDE DITCHES SHALL BE 1 FT BELOW ROAD SURFACE. DISCHARGE POINTS FOR DITCHES SHALL NOT BE NEAR WETLANDS OR STREAMS, AND OR BE LOCATED AT THE DIRECTION OF THE EPSCS.

CONDITIONS:	ROAD THICKNESS:	STONE SIZE:	FINES:
BASE LAYER WITH GEOTEXTILE FABRIC (NOT EXCLUSIVELY WET)	4" MIN.	3-3 1/2	0-6%
BASE LAYER WITH GEOTEXTILE FABRIC (WET CONDITIONS)	6" MIN.	3-3 1/2	0-6%

SURFACING SPECIFICATIONS

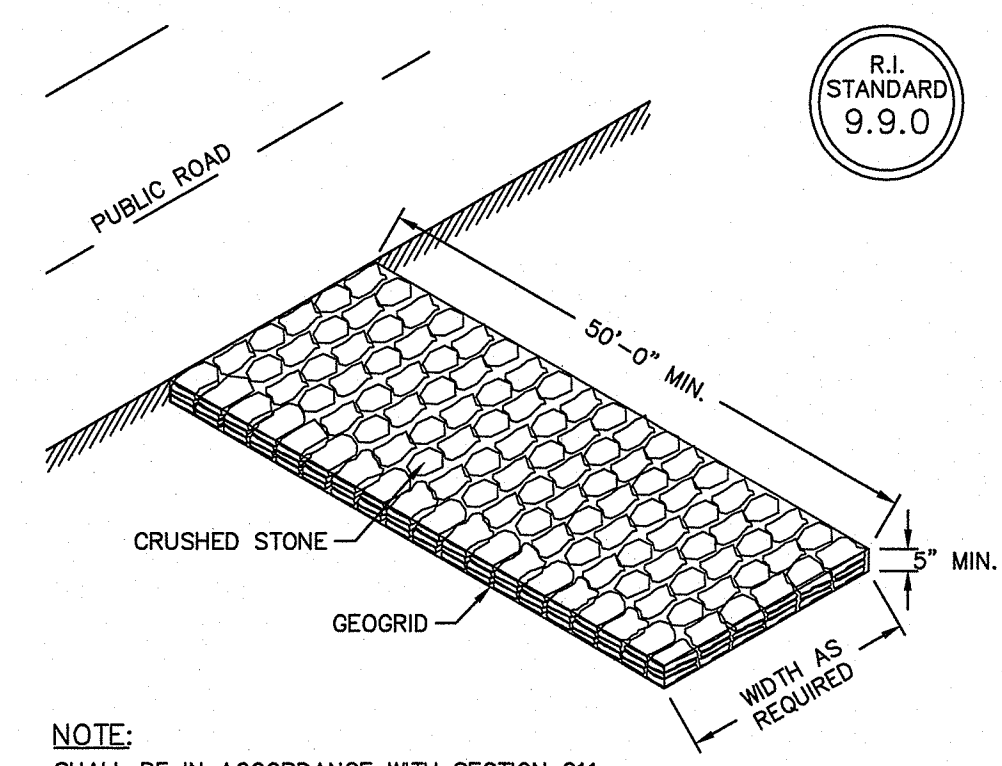
DENSE GRADED CRUSHED STONE FOR SUBBASE:

SIEVE DESIGNATION	PERCENTAGE BY MASS (WEIGHT) PASSING SQUARE MESH SIEVES
90MM (3.5 INCH)	100
75MM (3 INCH)	90-100
50MM (2 INCH)	75-100
25MM (1 INCH)	50-80
12.5MM (1/2 INCH)	30-60
4.75MM (NO. 4)	15-40
75µM (NO. 200)	0-6

MATERIAL SPECIFICATIONS

6" Stone Permeable Access Drive

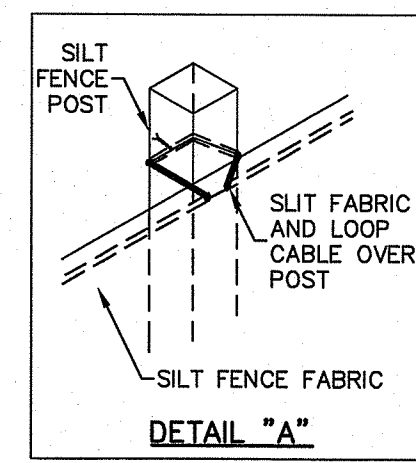
NOT TO SCALE



Construction Access

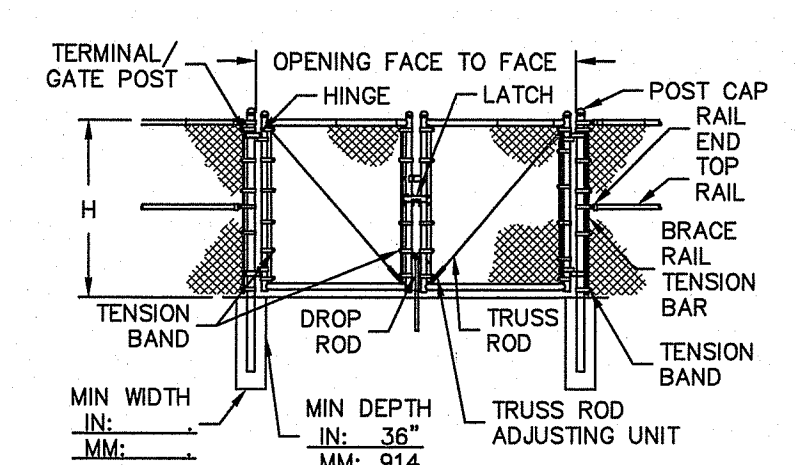
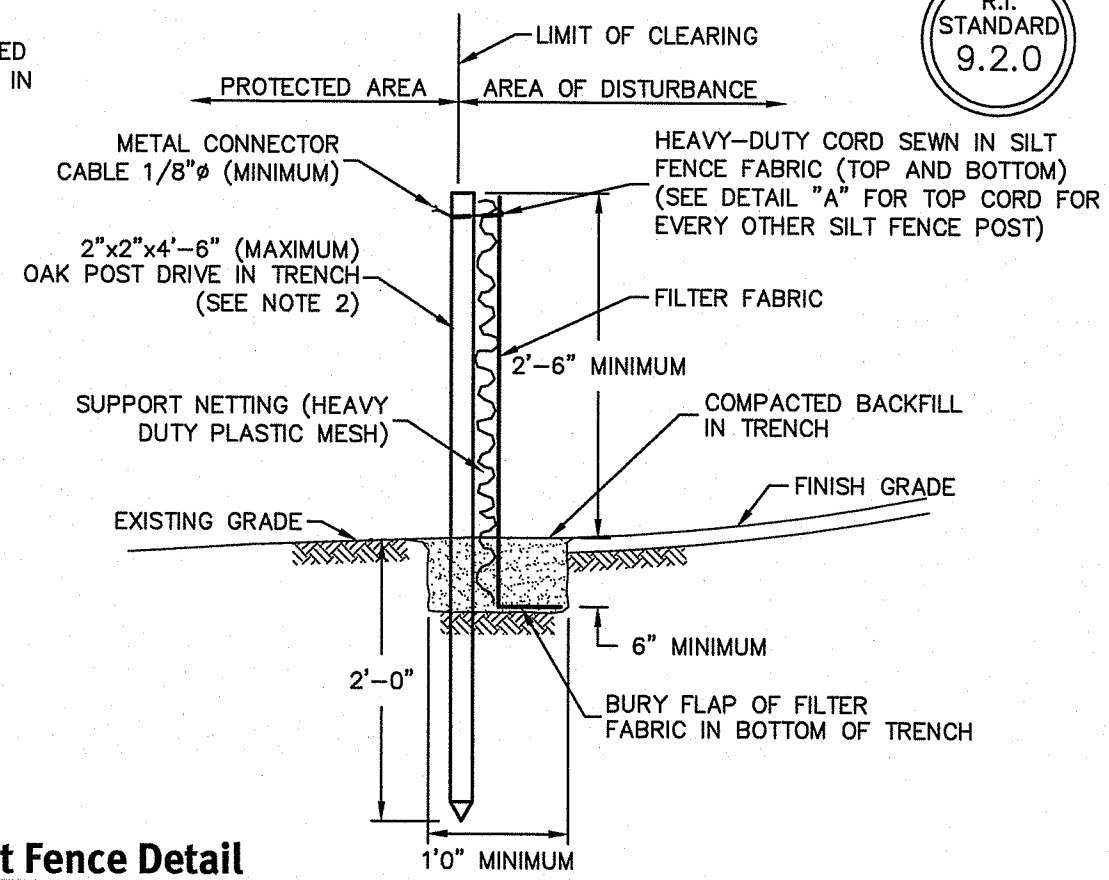
NOT TO SCALE

- NOTES:**
- SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
 - 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.
 - 1"x1"x4'-6" (MINIMUM) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
 - SILT FENCE SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.



Silt Fence Detail

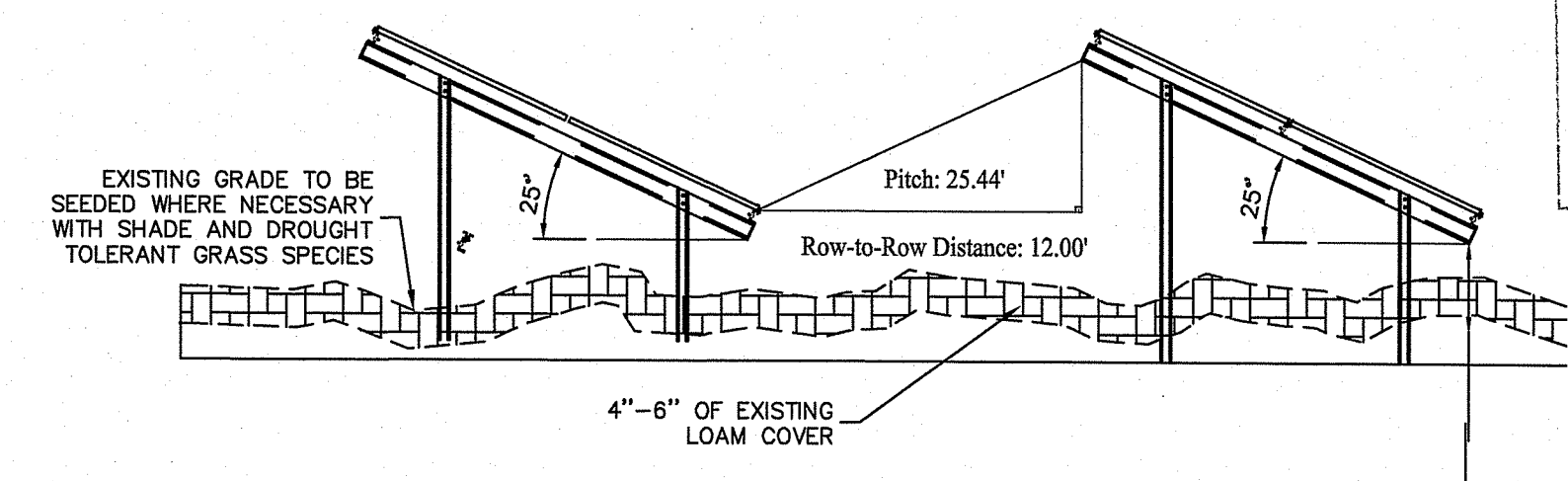
NOT TO SCALE



Double Swing Gate 12' Opening

NOT TO SCALE

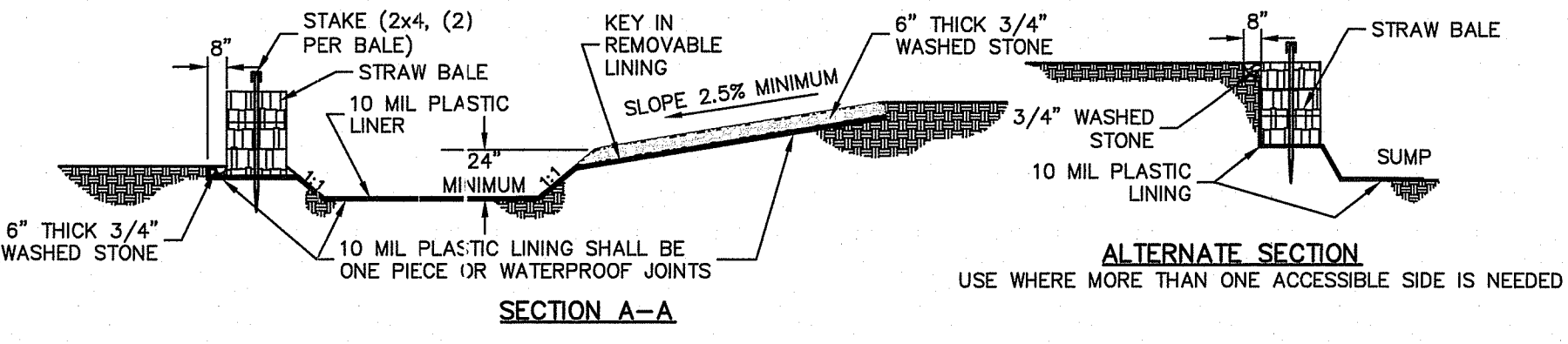
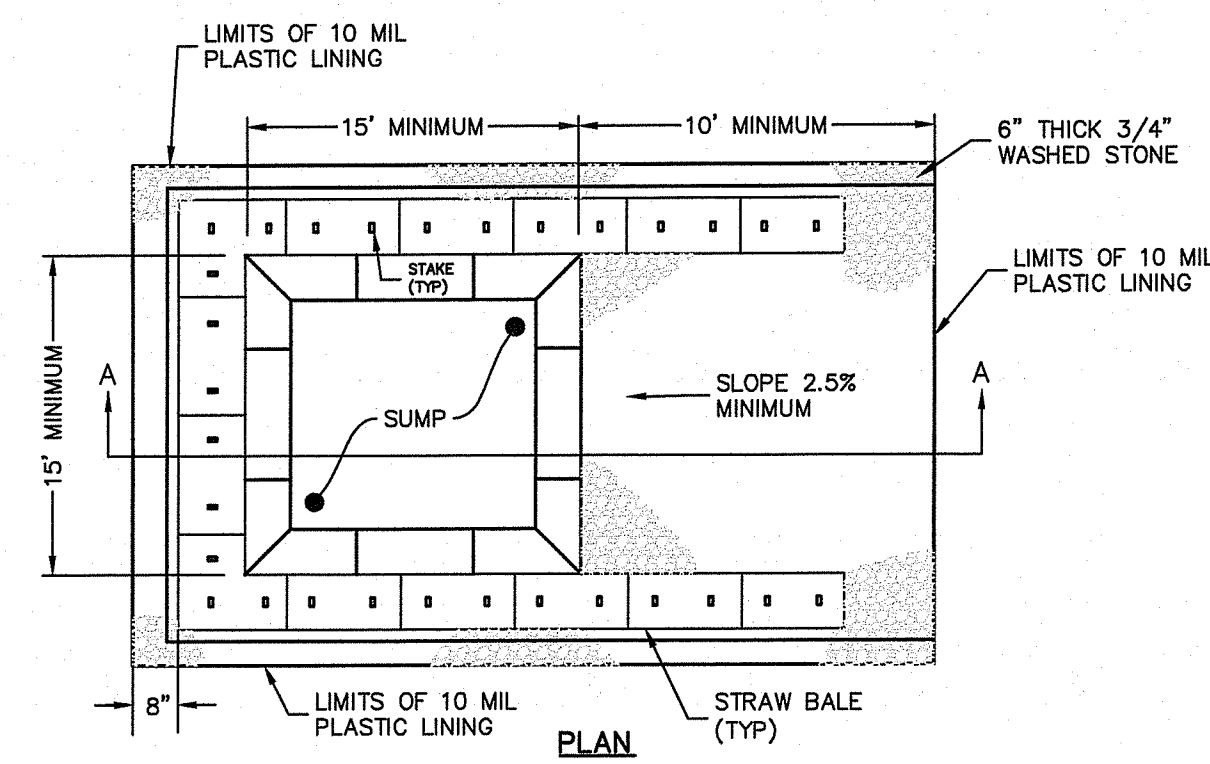
- NOTE:**
- METRIC DIMENSIONS ARE NOMINAL EQUIVALENTS TO U.S. DIMENSIONS.
 - SPECIFICATIONS SHOWN CAN BE CHANGED BY THE MANUFACTURER ONLY.
 - FOOTING WIDTH TO BE (4)X POST WIDTH.



Onsite Grading Material and PV Array Distance Scheme - Tilt, Angle, and Shading Detail

NOT TO SCALE

- NOTE:**
- TOPSOIL ON SITE SHALL BE PRESERVED. TOPSOIL SHALL NOT BE EXPORTED FROM THE SITE.



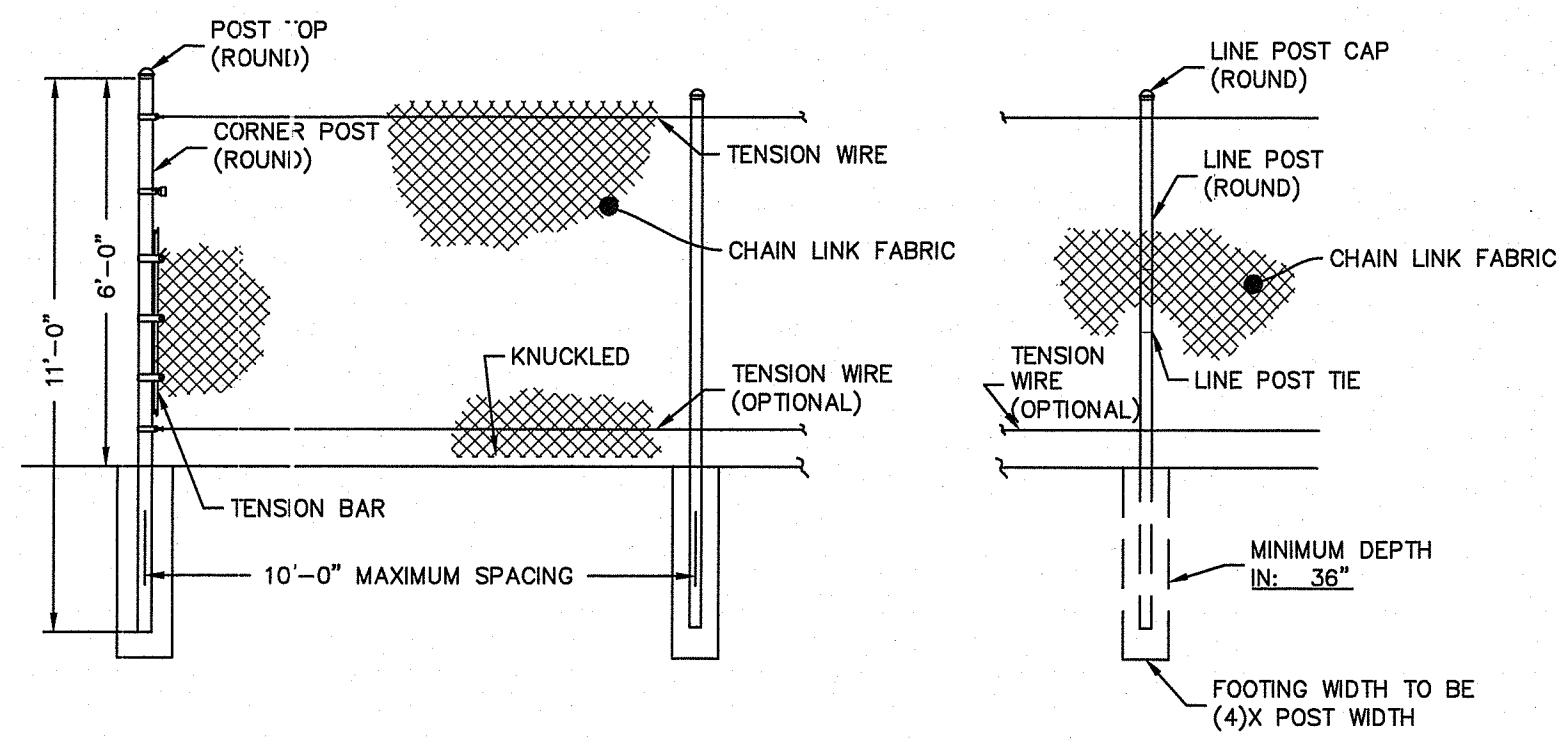
ALL CONCRETE TRUCKS SHALL WASHOUT HERE

WASHOUT SIGN

Concrete Washout Area

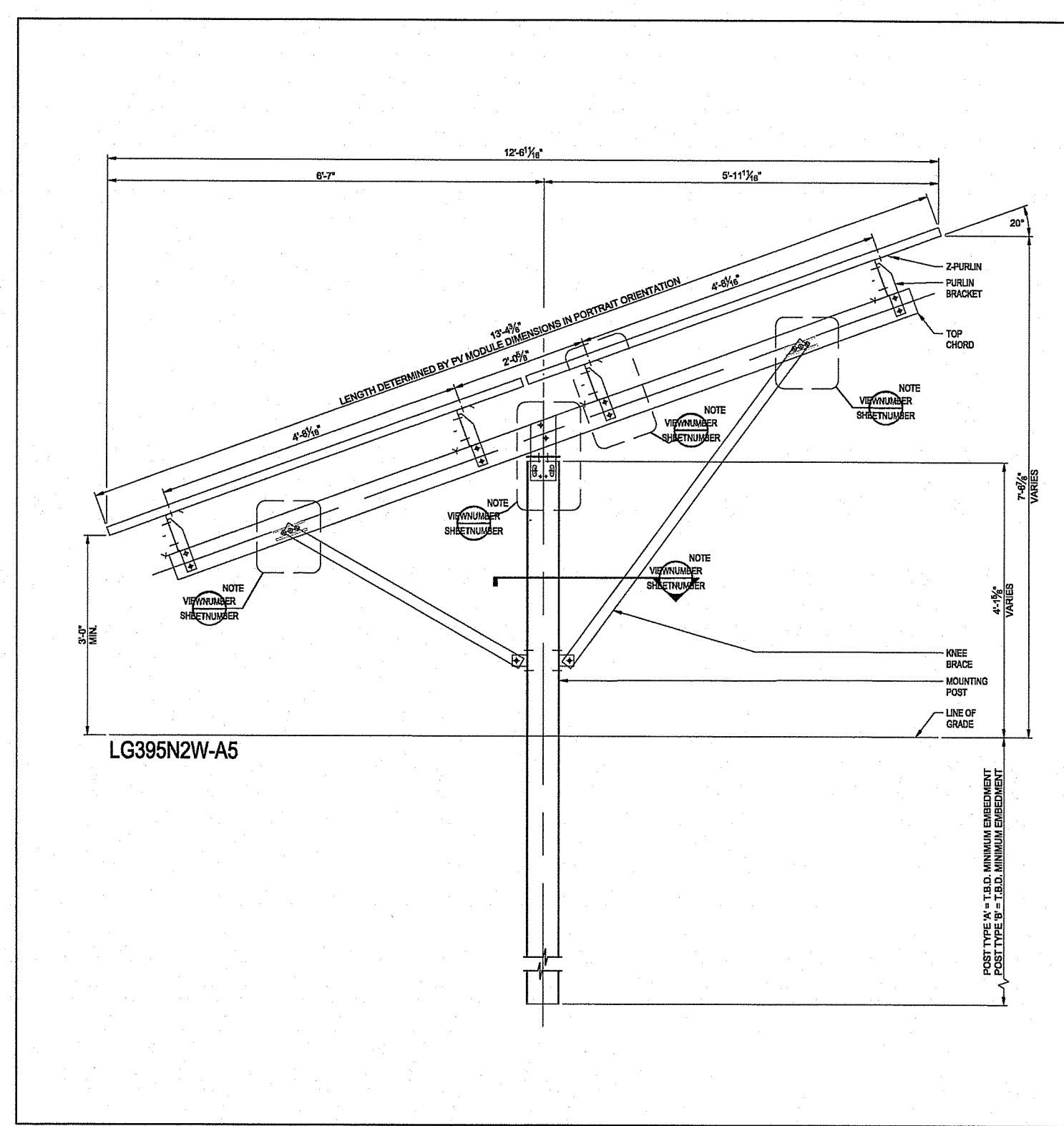
(NOT TO SCALE)

- 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.



Typical High Fence

NOT TO SCALE
ROUND END POSTS, WITHOUT TOP RAIL & WITHOUT BARBED WIRE



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED FEB 7 2020 FILE # 19-0293
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Solar Rack

NOT TO SCALE

- NOTE:**
- SOLAR DESIGN TO BE SPECIFIED BY SOLAR ENGINEER. FOR REFERENCE ONLY.
 - NO IMPERMEABLE FOUNDATIONS WILL BE INSTALLED (POST DRIVEN INSTALLATION ONLY).

Environmental Management
OCT 4 2019
Office of Water Resources

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CIVIL

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