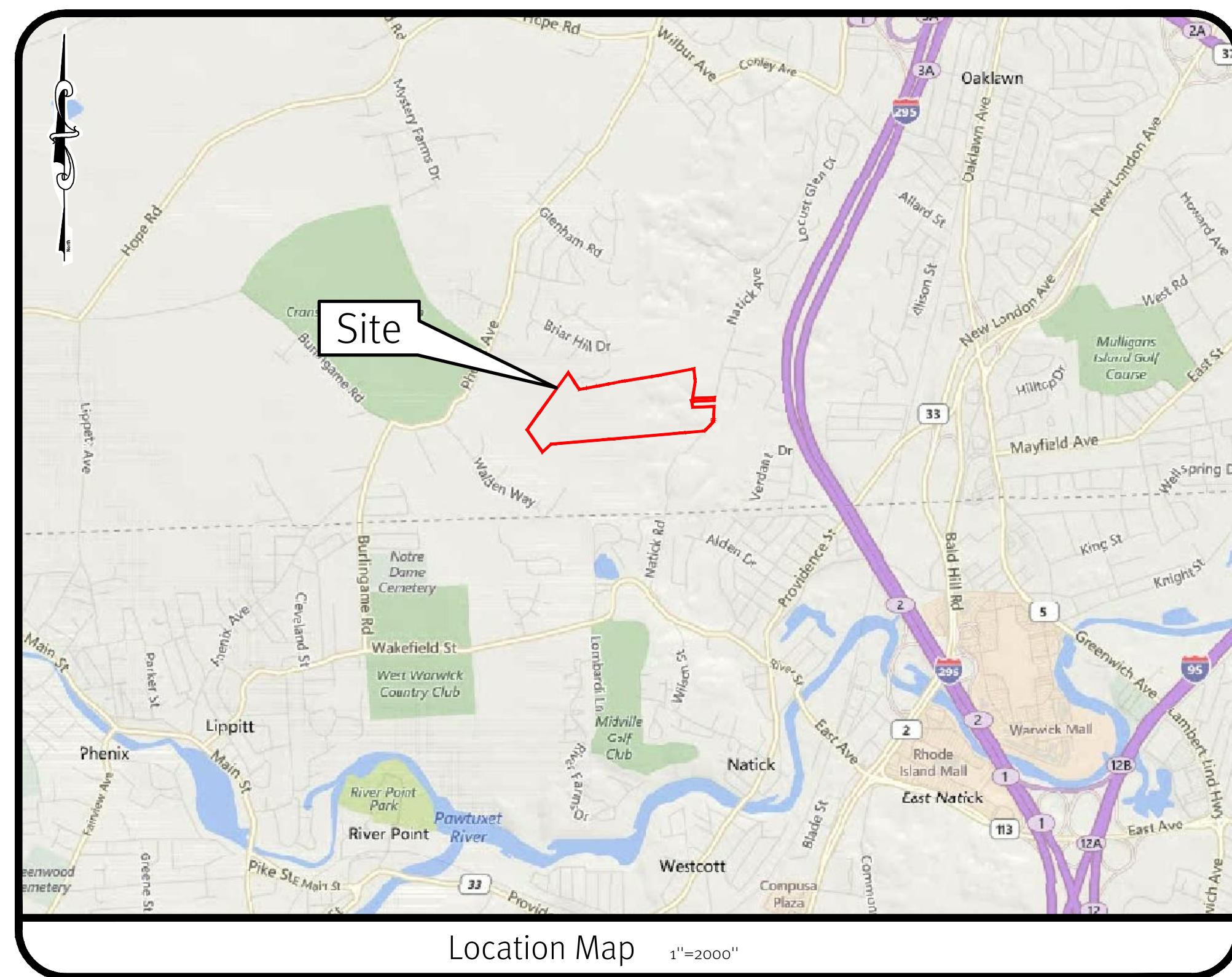


# Final Plan Submission

# Natick Avenue Solar

Located on Natick Avenue  
Cranston, Rhode Island

Assessor's Plat 22-3 Lots 108 & 119



## Sheet List Table

- 1 Cover Sheet
- 2 Half Mile Radius Aerial & USGS Map
- 3 General Notes & Legend
- 4 Existing Conditions Plan
- 5 Site Layout Plan
- 6 Site Development Plan
- 7 Soil Erosion and Sediment Control Plan
- 8 BMP Details - A & E
- 9 BMP Details - B & H
- 10 BMP Details - C, G & F
- 11 BMP Details - D & Swales
- 12 Detail Sheet
- 13 Boundary Survey

## Landscape Plans-

- Prepared by John C. Carter & Co., Inc.
- (1 of 6) Buffer Plan
  - (2 of 6) Cross Sections 1, 2, & 3
  - (3 of 6) Cross Sections 4, 5, & 6
  - (4 of 6) Cross Sections 7, 8, & 9
  - (5 of 6) Cross Sections 10, 11, & 12
  - (6 of 6) Cross Sections 13 & 14

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**SESC / O&M**  
The Soil Erosion and Sediment Control Plan (SESC) and Operations and Maintenance Plan (O&M) are required documents with this plan set and must be maintained by the contractor and owner onsite.

No.	Date	Description	Drawn By: SEK	Design By: SEK
1	11/09/2021	Final Plan Submission		
2	2/17/2021	REDAK Permit Modification		
3	12/08/2020	City Planning Comments		
4				



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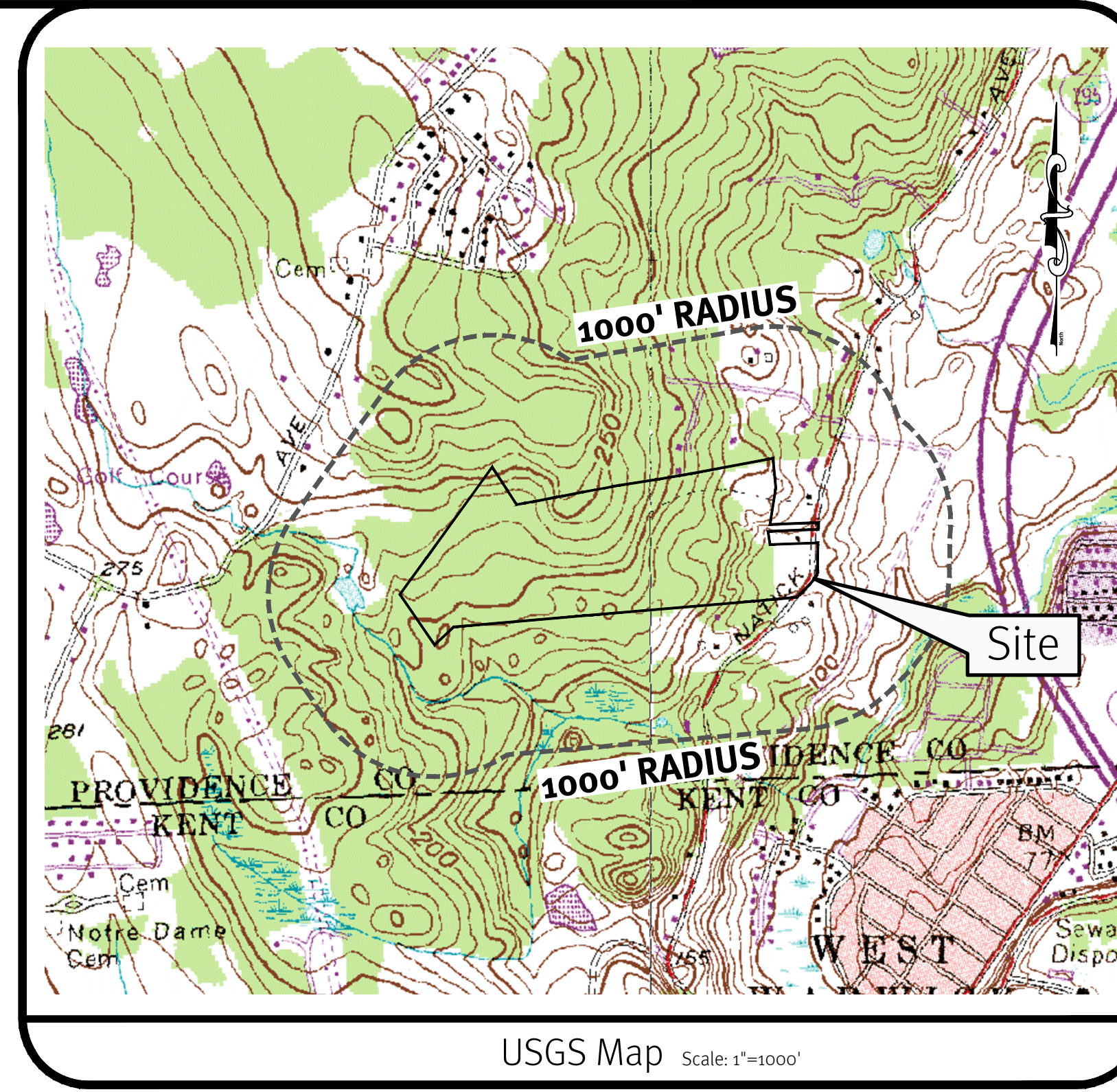
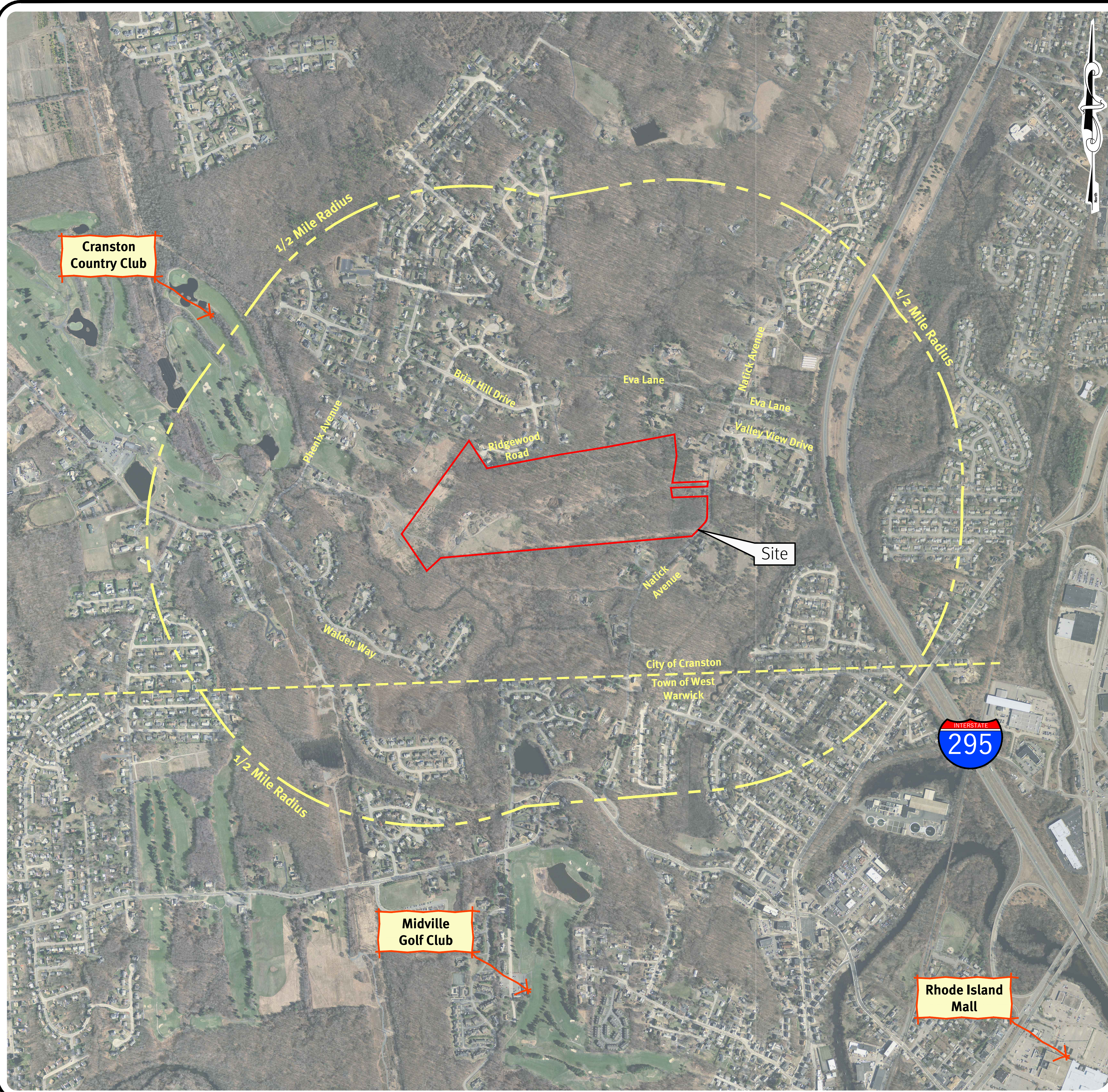
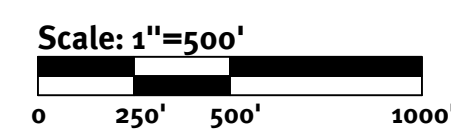


Photo Obtained from RIGIS.



**DIPrete Engineering**  
 Two Stafford Court, Cranston, RI 02920  
 Tel: 401-943-1000 Fax: 401-464-6006 www.diprete-eng.com

**KEVIN DEMERS**  
 REGISTERED PROFESSIONAL ENGINEER  
 CIVIL

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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:	Design By: SEK
1	11/02/2021	Final Plan Submission	SKM	
2	2/17/2021	RDMA Permit Application	SKM	
3	12/08/2020	City Planning Comments	SKM	
4	11/02/2021	Final Plan Submission	SKM	

**Half Mile Radius Aerial & USGS Map**  
**Natick Avenue Solar**  
 Assessor's Plat 22-3 Lots 108 & 119  
 Cranston, Rhode Island  
**Client**  
**Natick Solar, LLC**  
 17 Micro Center Blvd #2007, Warwick, Rhode Island 02886  
 Tel: 401-943-2001



**General Notes:**

- THE SITE IS LOCATED ON THE CITY OF CRANSTON ASSESSOR'S PLAT 22-3 LOTS 108 AND 119.
- THE SITE IS APPROXIMATELY 64.03 ACRES AND IS ZONED A-80.
- THE OWNER OF AP 22-3 LOTS 108 AND 119 IS: RONALD ROSSI  
1935 PHOENIX AVE  
CRANSTON, RI 02920
- THIS SITE IS LOCATED IN FEMA FLOOD ZONES X UNSHADED. REFERENCE FEMA FLOOD INSURANCE RATE MAP 44007C0407G & 44007C0246H, MAPS REVISED OCTOBER 2, 2015. (FLOOD PLAIN DESCRIPTIONS SHOWN BELOW)  
  
ZONE X (UNSHADED) - THIS SITE IS LOCATED IN FEMA FLOOD ZONE X. ZONE X ARE AREAS WHERE THERE IS MINIMAL FLOODING.
- THE BOUNDARY LINE AS SHOWN ON THIS PLAN DEPICTS THE RESULTS OF A CLASS I BOUNDARY RETRACEMENT SURVEY AS PERFORMED BY DIPRETE ENGINEERING ASSOCIATES, INC. THIS PLAN IS NOT TO BE CONSTRUED AS A CLASS I BOUNDARY RETRACEMENT SURVEY PLAN AND IS NOT SUITABLE FOR RECORDING AS A CLASS I STANDARD SURVEY PLAN. PLEASE REFER TO THE BOUNDARY SURVEY AT THE END OF THIS PLANSET.
- THE SITE IS NOT WITHIN A:  
GROUNDWATER PROTECTION AREA (RIDEM)  
NATURAL HERITAGE AREA (RIDEM)  
GROUNDWATER PROTECTION OVERLAY DISTRICT (TOWN)
- 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
  - OPERATION AND MAINTENANCE PLAN (O&M). THE O&M CONTAINS:
    - LONG TERM MAINTENANCE
    - LONG TERM POLLUTION PREVENTION
- THE SITE DOES NOT REQUIRE ANY WATER OR SEWER SERVICE.
- ALL PROPOSED CRUSHED STONE ACCESS PATHS ARE TO BE 20' WIDE.
- NO LIGHTING IS PROPOSED ON-SITE.
- TEST PITS AND SOIL EVALUATIONS WERE COMPLETED BY DIPRETE ENGINEERING ON FEBRUARY 21, 2019.
- WETLANDS ON THIS SITE WERE FLAGGED BY NATURAL RESOURCE SERVICES, INC. (NRS). REFER TO THE NRS REPORT DATED JULY 11, 2018.

**Soil Information:**

(REFERENCE: USDA NATURAL RESOURCES CONSERVATION SERVICE)

SOIL NAME	DESCRIPTION
CcD	CANTON-CHARLTON-ROCK OUTCROP COMPLEX, 15 TO 35 PERCENT SLOPES
CcC	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
Rf	RIDGEBURY, WHITMAN, AND LEICESTER EXTREMELY STONY FINE SANDY LOAMS
WcB	WAPPING VERY STONY SILT LOAM, 0 TO 8 PERCENT SLOPES

**Soil Erosion and Sedimentation Control Notes:**

- ALL EROSION CONTROL, TEMPORARY SWALES, TEMPORARY SEDIMENT TRAPS, ETC. MUST BE INSTALLED PER THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (LATEST EDITION) AND THE SOIL EROSION AND SEDIMENT CONTROL PLAN (SESC).
- TEMPORARY SWALES MUST BE USED TO CONTROL RUNOFF DURING CONSTRUCTION OF THE PROPOSED ROADWAY. TEMPORARY SWALES MUST BE VEGETATED AFTER CONSTRUCTION. EROSION CONTROL MATS MUST BE INSTALLED IF NECESSARY TO PREVENT EROSION AND SUPPORT VEGETATION. AFTER CONSTRUCTION IS COMPLETE AND TRIBUTARY AREAS TO THE SWALES HAVE BEEN STABILIZED, THE TEMPORARY SWALES MUST BE CLEARED AND FINAL CONSTRUCTION, INCLUDING INSTALLATION OF THE GRASS SWALE MUST BE PER THE DESIGN PLANS.
- ONCE THE SEDIMENT TRAPS ARE NO LONGER REQUIRED AND ALL TRIBUTARY AREAS HAVE BEEN STABILIZED, THE SEDIMENT TRAPS MUST BE CLEANED AND BROUGHT TO FINAL DESIGN GRADES.
- SEE SECTION 2.2 OF THE SESC FOR SEQUENCE OF CONSTRUCTION ACTIVITY, AND PROJECT PHASING.
- CONTRACTOR MAY MODIFY SEQUENCE OF CONSTRUCTION WITH APPROVAL FROM DESIGN ENGINEER.
- AS NOTED IN THE OPERATION & MAINTENANCE PLAN, IF SOIL EROSION IS OBSERVED BELOW THE DRIP EDGE OF THE SOLAR PANELS, TURF REINFORCEMENT MUST BE INSTALLED PER ENGINEER-APPROVED MANUFACTURER SPECIFICATIONS, ALONG AND DOWNGRADIANT OF ALL DRIP EDGES WHERE EROSION IS OBSERVED.

**General Notes - Gas Pipeline Easement**

- PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST MARK OUT AND COORDINATE WITH THE TENNESSEE GAS COMPANY (TGC) PRIOR TO CUTTING ANY TREES ALONG THE SOUTHERN PROPERTY LINE.
- PRIOR TO CLEARING ALONG THE SOUTHERN PROPERTY LINE, CONTRACTOR MUST ERECT A LINE OF ORANGE SNOW FENCE ALL ALONG THE NORTHERN LIMIT OF THE TGC PIPELINE EASEMENT.
- PRIOR TO CONSTRUCTION, CONTRACTOR MUST EMPLOY APPROPRIATE CONSTRUCTION PROTECTION MATS FOR EQUIPMENT TRAVELING OVER THE TGC PIPELINE EASEMENT. CONTRACTOR MUST COORDINATE WITH TGC PRIOR TO INSTALLING CONSTRUCTION PROTECTION MATS.
- WHILE CLEARING ALONG THE SOUTHERN PROPERTY LINE, CONTRACTOR MUST ENSURE THAT FELLED TREES DO NOT FALL WITHIN THE TGC PIPELINE EASEMENT.
- CONTRACTOR MUST ERECT THE PERMANENT FENCE ALONG THE SOUTHERN PROPERTY LINE AS SOON AS POSSIBLE.
- ANY BLASTING WITHIN 300 FEET OF THE TGC PIPELINE EASEMENT MUST BE APPROVED BY TGC. MAXIMUM ALLOWABLE PEAK PARTICLE VELOCITY IS 4.0 INCHES/SEC.

**Grading and Utility Notes:**

- THE CONTRACTOR IS RESPONSIBLE FOR ALL SOIL EROSION AND SEDIMENT CONTROL ON-SITE. THE CONTRACTOR IS TO NOTIFY THE DESIGN ENGINEER, THE DIRECTOR OF PUBLIC WORKS, THE TOWN ENGINEER, AND RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR MUST OBTAIN ALL FEDERAL, STATE AND MUNICIPAL APPROVALS PRIOR TO THE START OF CONSTRUCTION.
- CONSTRUCTION TO COMMENCE SPRING 2021 OR UPON RECEIPT OF ALL NECESSARY APPROVALS.
- ALL WORK PERFORMED HEREIN IS TO BE GOVERNED BY CURRENT EDITIONS OF THE RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION AND CITY OF CRANSTON STANDARD SPECIFICATIONS AND DETAILS.
- THE CONTRACTOR MUST COORDINATE WITH ALL OF THE APPROPRIATE UTILITY COMPANIES FOR AGREEMENTS TO SERVICE THE PROPOSED BUILDING. THIS MUST BE DONE PRIOR TO CONSTRUCTION. NO REPRESENTATIONS ARE MADE BY DIPRETE ENGINEERING THAT UTILITY SERVICE IS AVAILABLE.
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING FINISH GRADING AND DRAINAGE AROUND THE STRUCTURES TO ENSURE SURFACE WATER AND/OR GROUNDWATER ARE DIRECTED AWAY FROM THE STRUCTURE.
- PRIOR TO START OF CONSTRUCTION, CONTRACTOR MUST VERIFY EXISTING PAVEMENT ELEVATIONS AT INTERFACE WITH PROPOSED PAVEMENTS, AND EXISTING GROUND ELEVATIONS ADJACENT TO DRAINAGE OUTLETS TO ASSURE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED FACILITIES. CONTRACTOR MUST NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- ALL PROPOSED UTILITIES SERVING THE SITE AND BUILDINGS TO BE COORDINATED WITH APPLICANT, ARCHITECT, AND ENGINEER PRIOR TO INSTALLATION.
- ALL TRAFFIC CONTROL MUST CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION INCLUDING ALL REVISIONS.
- ALL RETAINING WALLS AND STEEP SLOPES ARE SHOWN SCHEMATICALLY ONLY AND DIPRETE ENGINEERING IS NOT PROVIDING THE DESIGN OF THESE ITEMS. THE ACTUAL WALLS AND SLOPES ARE TO BE DESIGNED AND BUILT UNDER THE DIRECTION OF A PROFESSIONAL GEOTECHNICAL ENGINEER AND CERTIFIED TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT. SHOP DRAWINGS MUST SUBMITTED PRIOR TO CONSTRUCTION.
- ALL CUT AND FILL AREAS MUST BE CONSTRUCTED UNDER THE DIRECTION OF A PROFESSIONAL GEOTECHNICAL ENGINEER, WITH TESTING AND CERTIFICATION TO BE PROVIDED TO THE OWNER AT THE COMPLETION OF THE PROJECT. DIPRETE ENGINEERING IS NOT PROVIDING THE FILL SPECIFICATIONS, GEOTECHNICAL ENGINEERING, STRUCTURAL ENGINEERING SERVICES, OR SUPERVISION AS PART OF THESE DRAWINGS.
- ALL COMPONENTS OF THE DRAINAGE MUST BE ASBUILT PRIOR TO COVERING. ENGINEER MUST BE NOTIFIED PRIOR TO COVERING SURVEY ASBUILT LOCATIONS. ENGINEER WILL NOT ACCEPT FIELD MEASUREMENTS FROM THE SITE CONTRACTOR.
- NO STOCKPILING OF MATERIAL TO BE LOCATED IN THE RIGHT OF WAY AND NO OPEN TRENCHES ARE TO BE LEFT OVERNIGHT.
- ALL TOPSOIL IN DISTURBED AREAS MUST BE STOCKPILED ON SITE FOR FUTURE USE. NO TOPSOIL SHALL LEAVE THE SITE.
- ALL EXCESS SOIL, TREES, ROCKS, BOULDERS, AND OTHER REFUSE, MUST BE DISPOSED OFF SITE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. STUMPS MUST BE GROUND ON SITE OR REMOVED.
- NO STUMP DUMPS ARE PROPOSED ON SITE.
- ALL EXISTING UTILITIES SHOWN ARE FROM VISIBLE INFORMATION, DRAWINGS FROM OTHERS, OR INFORMATION PROVIDED TO DIPRETE ENGINEERING AND ARE SUBJECT TO CHANGE. THE LOCATIONS OF UNDERGROUND PIPES AND CONDUITS HAVE BEEN DETERMINED FROM AFOREMENTIONED PLANS OF RECORD AND ARE APPROXIMATE ONLY. PRIOR TO CONSTRUCTION, THE PROPER UTILITY ENGINEERING DEPARTMENTS MUST BE CONTACTED AND THE ACTUAL LOCATION OF SUBSURFACE STRUCTURES MUST BE DETERMINED IN THE FIELD BY THE CONTRACTOR. CALL THE DIG SAFE CENTER TOLL FREE AT 1-888-344-7233 IN MA, ME, NH, RI, & VT PRIOR TO EXCAVATION. NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES PRIOR TO EXCAVATION. ANY DAMAGE TO UTILITIES WHICH ARE SHOWN ON THE PLANS OR DETAILED BY DIG SAFE MUST BE THE SITE CONTRACTORS RESPONSIBILITIES.
- IF CONCRETE TRUCKS ARE WASHED OUT ON-SITE, ALL WASHOUT MUST BE COMPLETED IN THE DESIGNATED CONCRETE WASHOUT AREA.
- ALL DRAINAGE PIPE INSTALLED WITHIN THE SEASONAL HIGH GROUNDWATER TABLE MUST BE WATER TIGHT.

**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.

**Dimensional Regulations:**

CURRENT ZONING:	A-80
MINIMUM LOT AREA:	80,000 SF
MINIMUM FRONTAGE AND LOT WIDTH:	200'
MINIMUM FRONT YARD:	40'
MINIMUM SIDE YARD:	20'
MINIMUM REAR YARD:	100'

**Existing Legend**

NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS

	PROPERTY LINE		NAIL FOUND/SET
	ASSESSORS LINE		DRILL HOLE FOUND/SET
	BUILDING		BOUND FOUND/SET
	BRUSHLINE		SIGN
	TRELLINE		BOLLARD
	GUARDRAIL		SOIL EVALUATION
	FENCE		CATCH BASIN
	RETAINING WALL		DOUBLE CATCH BASIN
	STONE WALL		DRAINAGE MANHOLE
	PATH		FLARED END SECTION
	MINOR CONTOUR LINE		GUY POLE
	MAJOR CONTOUR LINE		ELECTRIC MANHOLE
	WATER LINE		UTILITY/POWER POLE
	SEWER LINE		LIGHTPOST
	SEWER FORCE MAIN		SEWER/SEPTIC MANHOLE
	GAS LINE		SEWER VALVE
	ELECTRIC LINE		CLEANOUT
	OVERHEAD WIRES		HYDRANT
	DRAINAGE LINE		IRRIGATION VALVE
	SOILS LINES		WATER VALVE
	50' PERIMETER WETLAND		WELL
	100' RIVERBANK WETLAND		MONITORING WELL
	200' RIVERBANK WETLAND		UNKNOWN MANHOLE
	FEMA BOUNDARY		GAS VALVE
	STREAM		BENCH MARK
	WETLAND LINE & FLAG		STREAM FLOW DIRECTION
	AREA SUBJECT TO STORM FLOWAGE LINE & FLAG		
	STATE HIGHWAY LINE		
	STATE FREEWAY LINE		

**Proposed Legend**

NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS

	DRAINAGE LINE		PERFORATED SUBDRAIN
	PROPERTY LINE		SWALE
	BUILDING SETBACKS		SEWER FORCE MAIN
	CHAINLINK FENCE		GAS LINE
	RETAINING WALL		WATER LINE
	MINOR CONTOUR LINE		HYDRANT ASSEMBLY
	MAJOR CONTOUR LINE		WATER VALVE
	BMP STONE BASIN/TRENCH BOTTOM MINOR CONTOUR LINE		THRUST BLOCK
	BMP STONE BASIN/TRENCH BOTTOM MAJOR CONTOUR LINE		SEWER LINE
	SPOT ELEVATION		OVERHEAD WIRE
	EDGE OF PAVEMENT		ELECTRIC, TELEPHONE, CABLE LINE
	BITUMINOUS BERM (RIDOT STD 7.5.1)		LIMIT OF DISTURBANCE/ LIMIT OF CLEARING
	CONCRETE CURB (RIDOT STD 7.1.0)		SEDIMENTATION BARRIER, SILT FENCE (RIDOT STD 9.2.0), COMPOST SOCK OR APPROVED EQUAL
	BUILDING FOOTPRINT		SLOPES STEEPER THAN 3:1 (2:1 OR 1:1 SLOPES)
	BUILDING OVERHANG		UNDERGROUND INFILTRATION OUTLINE
	ASPHALT PAVEMENT		POND ACCESS
	HEAVY DUTY ASPHALT PAVEMENT		RIPRAP
	HEAVY DUTY CONCRETE		SAND FILTER
	CONCRETE		BIO RETENTION
	ASPHALT SIDEWALK		CATCH BASIN
	SAWCUT LINE		DOUBLE CATCH BASIN
	SIGN (RIDOT STD 24.6.2 AS APPLICABLE)		MANHOLE
	SINGLE LIGHT		FLARED END SECTION
	DOUBLE LIGHT		HEADWALL
	OVERHANGING LIGHT		
	ACCESSIBLE PARKING SPACE SYMBOLS		
	BUILDING INGRESS/EGRESS		
	ELECTRIC UTILITY POLE		
	ZONING LINE		
	SOLAR ARRAY (TYP)		
	LIMIT OF DISTURBANCE		

**Zone A80**

**Zone A8**

**General Notes & Legend**

**Natick Avenue Solar**

Assessor's Plat 22-3 Lots 108 & 119  
Client: Natick Solar, LLC  
17 Metro Center Blvd #2007, Warwick, Rhode Island 02886  
Tel: 401-943-2901

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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	11/09/2021	Final Plan Submission	SKM
2	2/17/2022	RDMA Permit Modification	SKM
3	12/18/2020	City Planning Comments	SKM
4		City Planning Submission	SKM

Drawn By: SKK  
Design By: SKK

**Diprete Engineering**

Two Stafford Court, Cranston, RI 02920  
Tel: 401-943-1000 Fax: 401-464-6006 www.diprete-eng.com

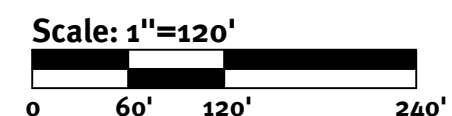
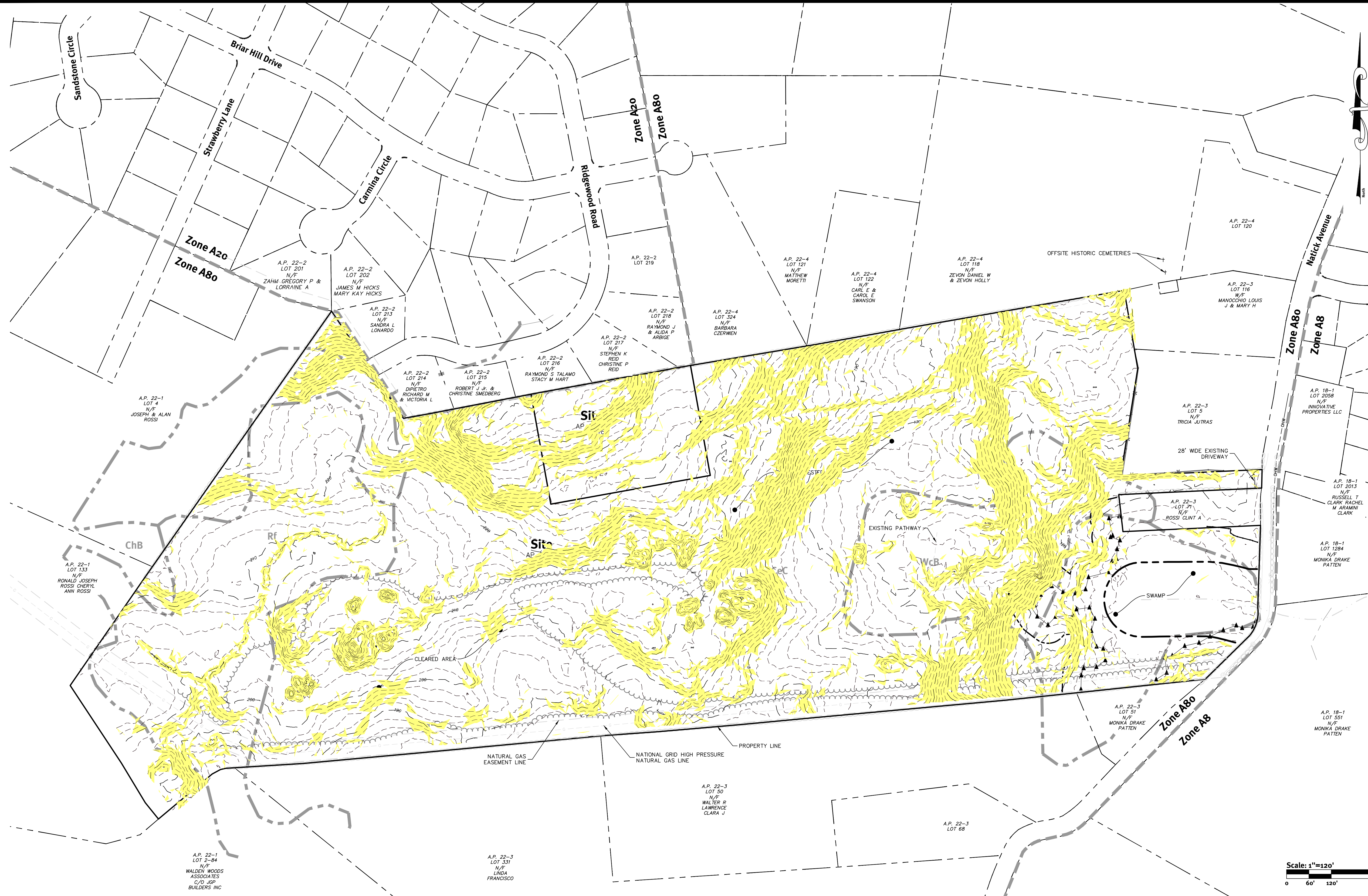
**KEVIN DEMERS**  
REGISTERED PROFESSIONAL ENGINEER CIVIL

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**Existing Conditions Note:**  
SEE SHEET 13 FOR CLASS I BOUNDARY SURVEY.

STEEP SLOPES TABLE		
SLOPE	COLOR	
>15.00%	Yellow	

**Existing Conditions Plan**  
**Natick Avenue Solar**  
Assessor's Plat 22-3 Lots 108 & 119  
Crantston, Rhode Island  
**Natick Solar, LLC**  
17 Bioco Center Blvd #2007, Warwick, Rhode Island 02886  
Tel: 401-943-2901

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3	12/08/2020	Site Planning Comments	SEK	SEK
4		Final Plan Submission	SEK	SEK

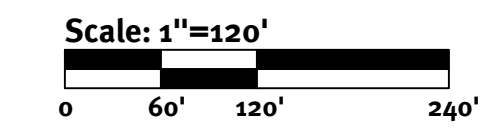
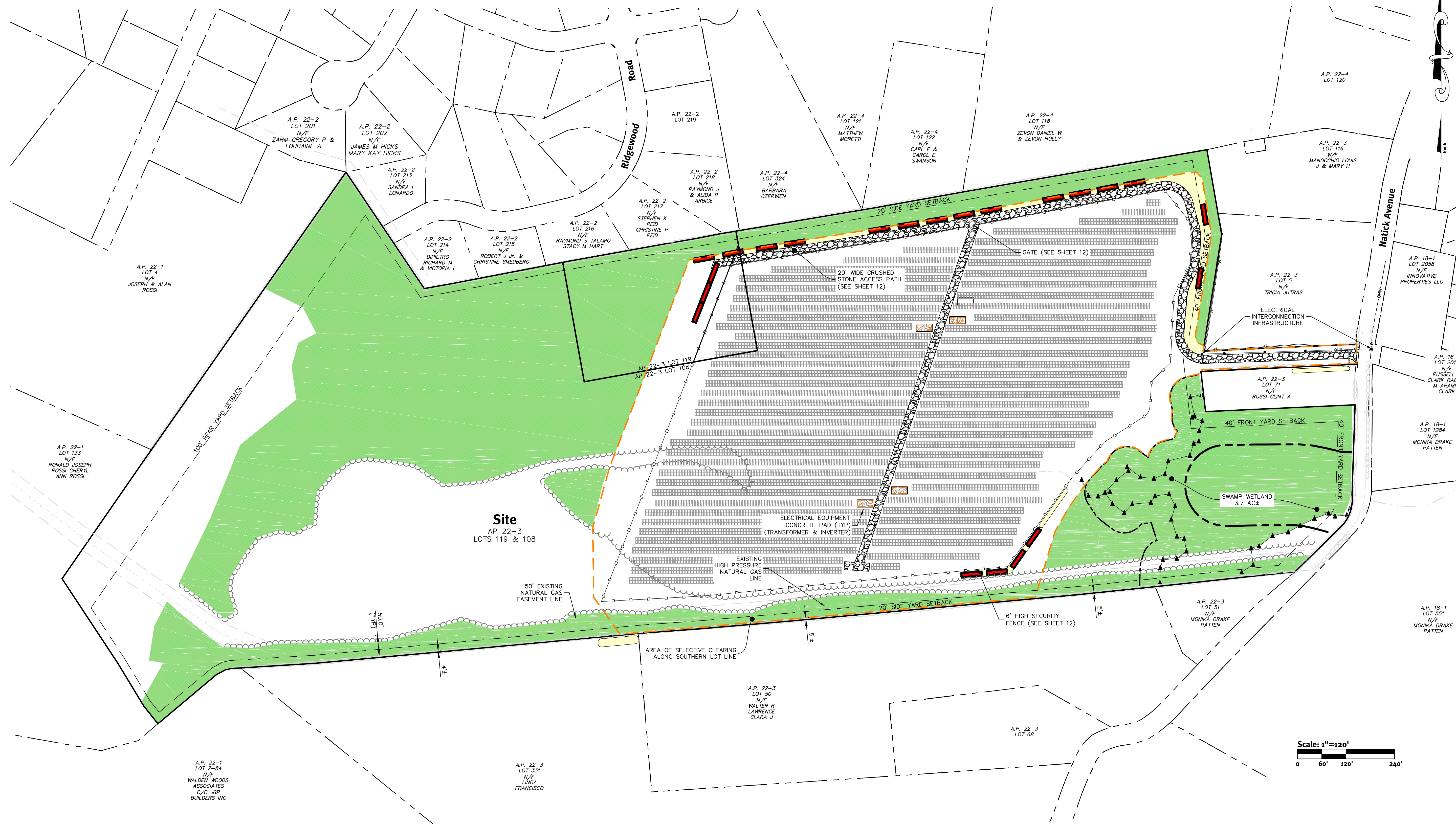
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**KEVIN DEMERS**  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL  
No. 0557-0001

**DiPrete Engineering**  
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Tel: 401-943-1000 Fax: 401-464-6006 www.diprete-eng.com  
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**Site Layout Plan Notes:**

1. THE SITE IS NOT WITHIN A NATURAL HERITAGE AREA, PER RIGIS ONLINE DATABASE.
2. THERE ARE NO KNOWN ENVIRONMENTAL HAZARDS OR IMPAIRMENTS ON SITE.

**Commercial Solar Farm**

**Site Layout Plan**  
**Natick Avenue Solar**  
 Assessor's Plat 22-3 Lots 108 & 119  
 Client  
**Natick Solar, LLC**  
 17 Metro Center Blvd #2007, Warwick, Rhode Island 02886  
 401-943-2300

**KEVIN DEMERS**  
 REGISTERED PROFESSIONAL ENGINEER  
 CIVIL

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No.	Date	Description	By:	Design By: SEK
1	11/18/2021	Final Plan Submission	SEK	SEK
2	2/17/2022	Revised Plan Submission	SEK	SEK
3	12/18/2022	City Planning Commission	SEK	SEK

**DiPrete Engineering**  
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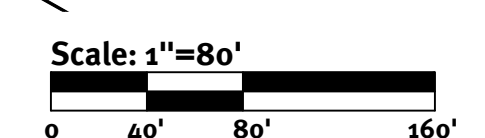


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**Dimensional Regulations:**

CURRENT ZONING:	REQUIRED	PROPOSED
MINIMUM LOT AREA:	80,000 SF	2,789,020 SF
MINIMUM FRONTAGE AND LOT WIDTH:	200'	500'
MINIMUM FRONT YARD:	60'	473'
MINIMUM SIDE YARD (NORTH):	20'	94'
MINIMUM SIDE YARD (SOUTH):	20'	100'
MINIMUM REAR YARD:	100'	1,024'
MINIMUM BUFFER (NORTH):	5'	50'
MINIMUM BUFFER (EAST):	10'	25'
MINIMUM BUFFER (SOUTH):	5'	5'-10' VARIABLE
MINIMUM BUFFER (WEST):	5'	108'



**Site Development Plan**  
**Natick Avenue Solar**  
 Assessor's Plat 22-3 Lots 108 & 119  
 Cranston, Rhode Island  
**Natick Solar, LLC**  
 17 Metro Center Blvd #2007, Warwick, Rhode Island 02886  
 TEL: 401-943-2801

**KEVIN DEMERS**  
 REGISTERED PROFESSIONAL ENGINEER CIVIL  
 No. 0557-0001

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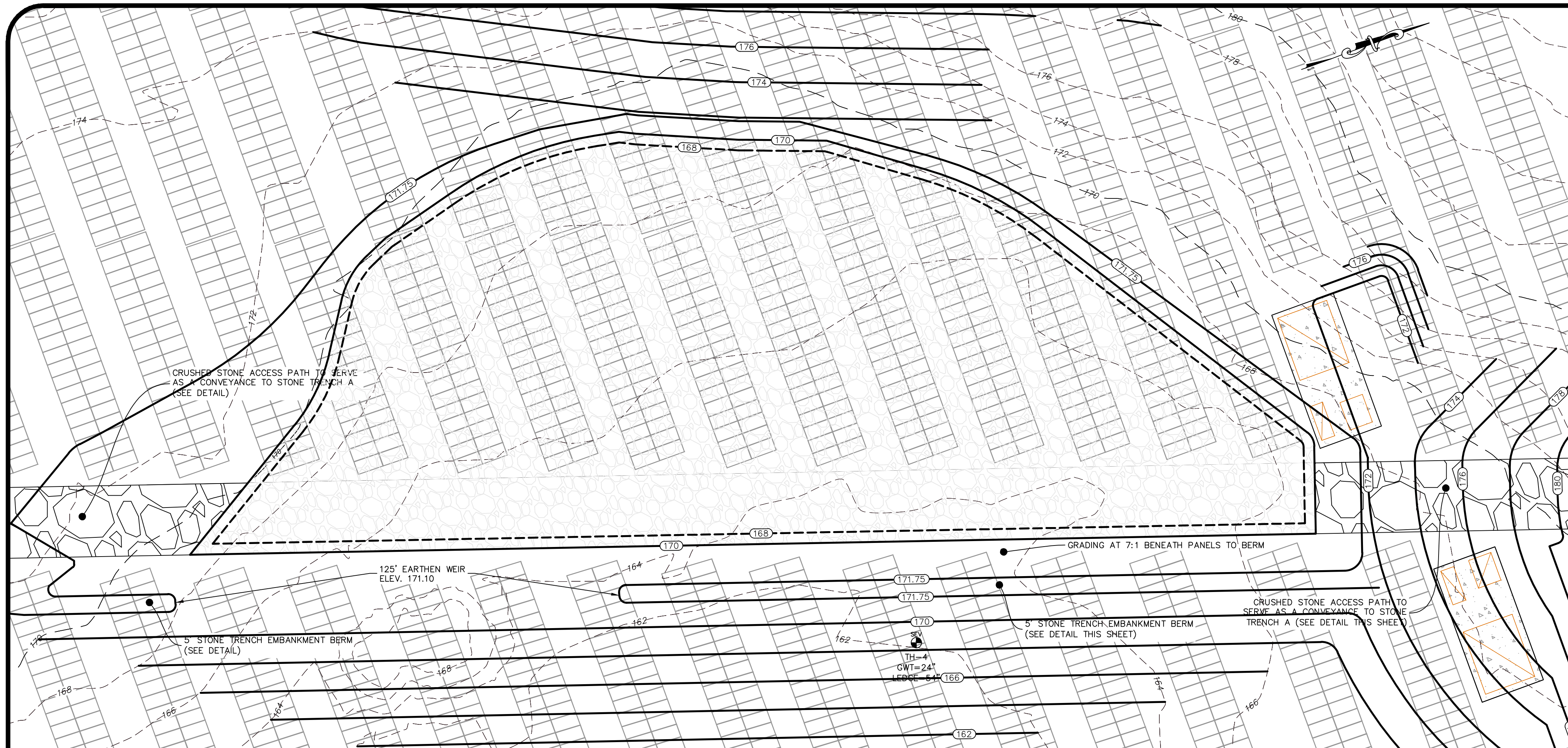
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Drawn By: SEK  
 Design By: SEK

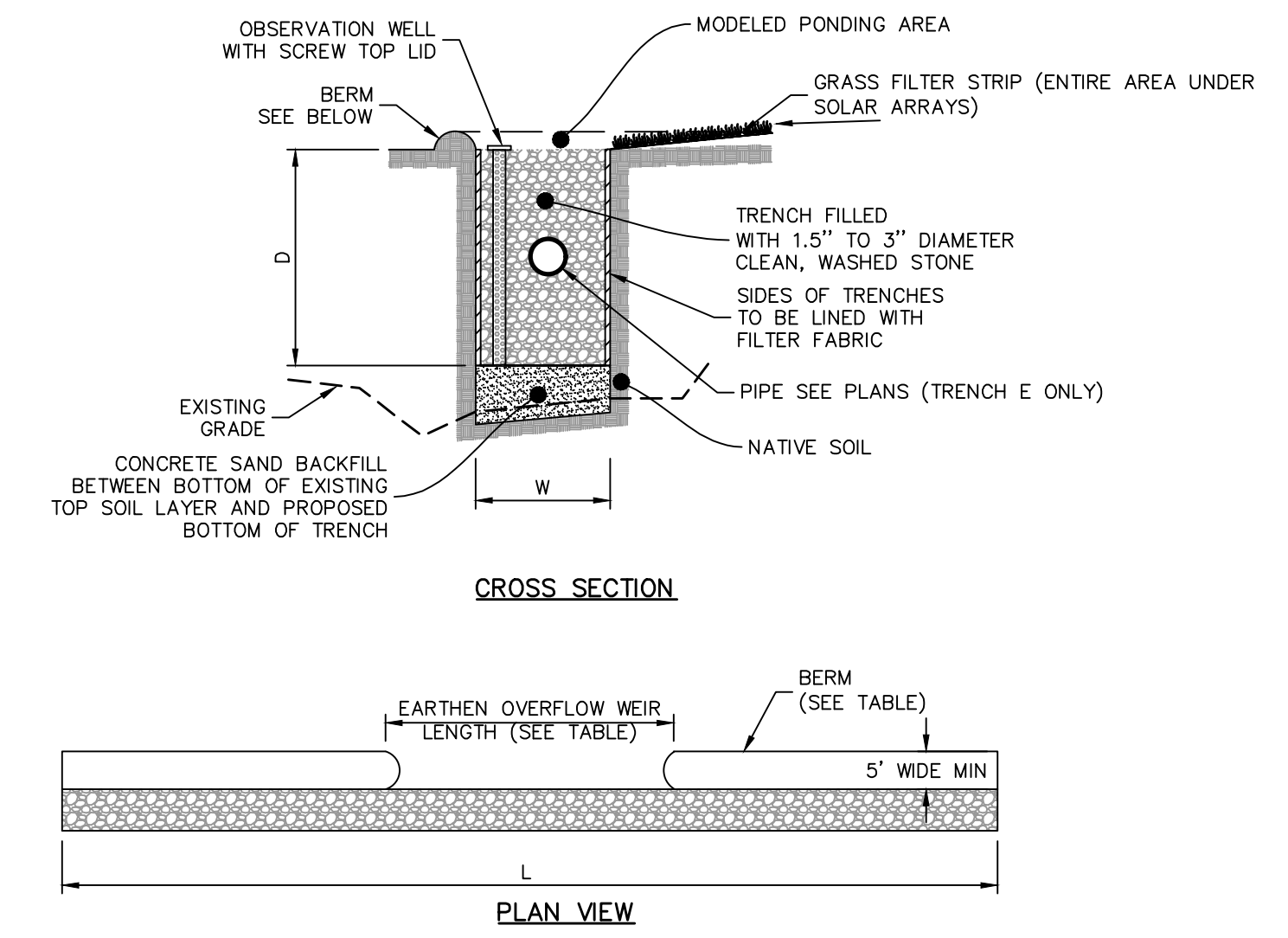
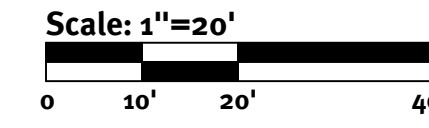








Stone Trench A

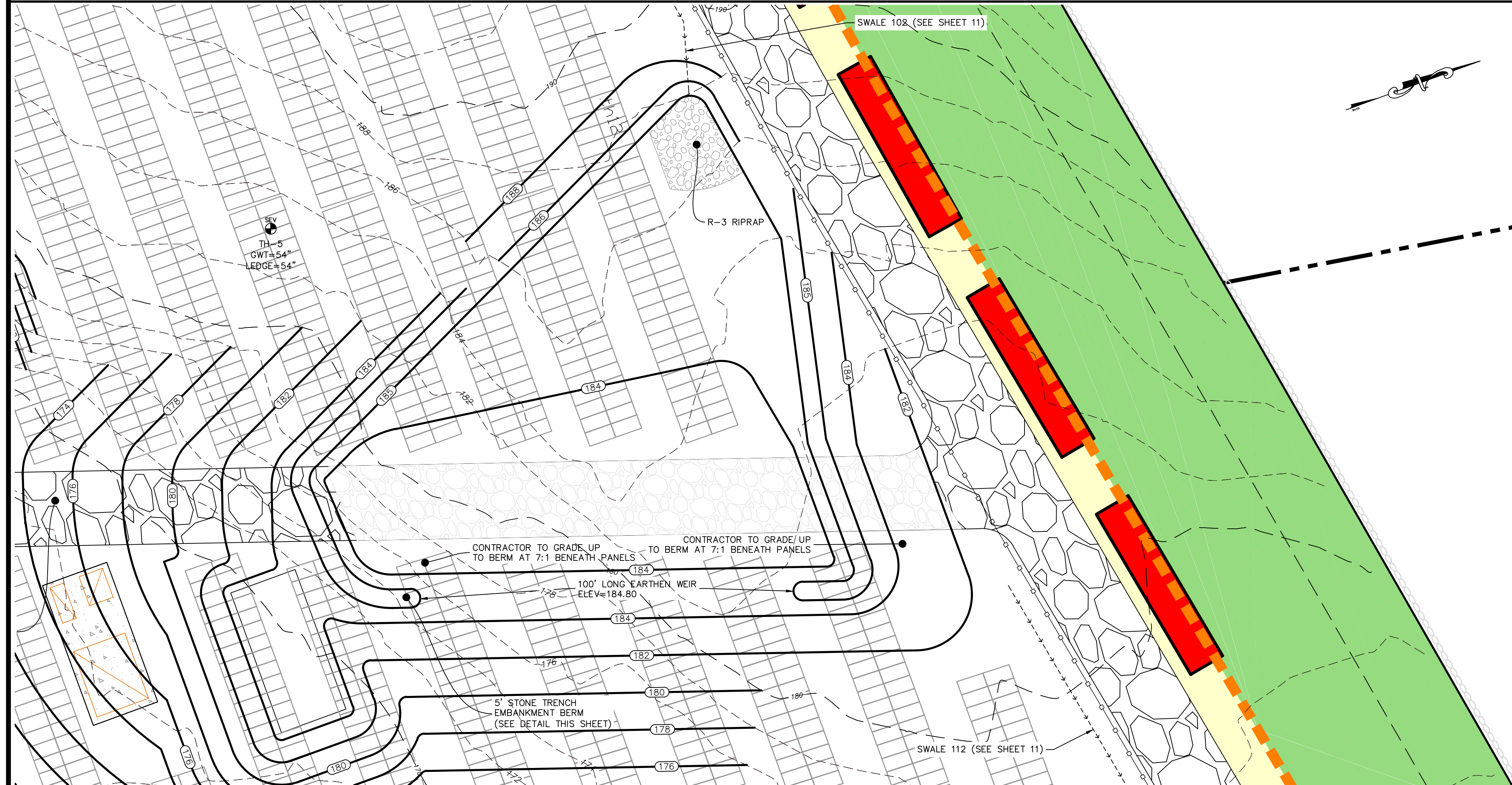


LOCATION	TRENCH DEPTH (D)	TRENCH WIDTH (W)	TRENCH LENGTH (L)	BERM HEIGHT	WEIR LENGTH	TH#: SHWT
TRENCH A	24"	VARIES	310'+	21"	125'	TH-4; 160.2
TRENCH E	24"	VARIES	160'	18"	100'	TH-5; 178.0

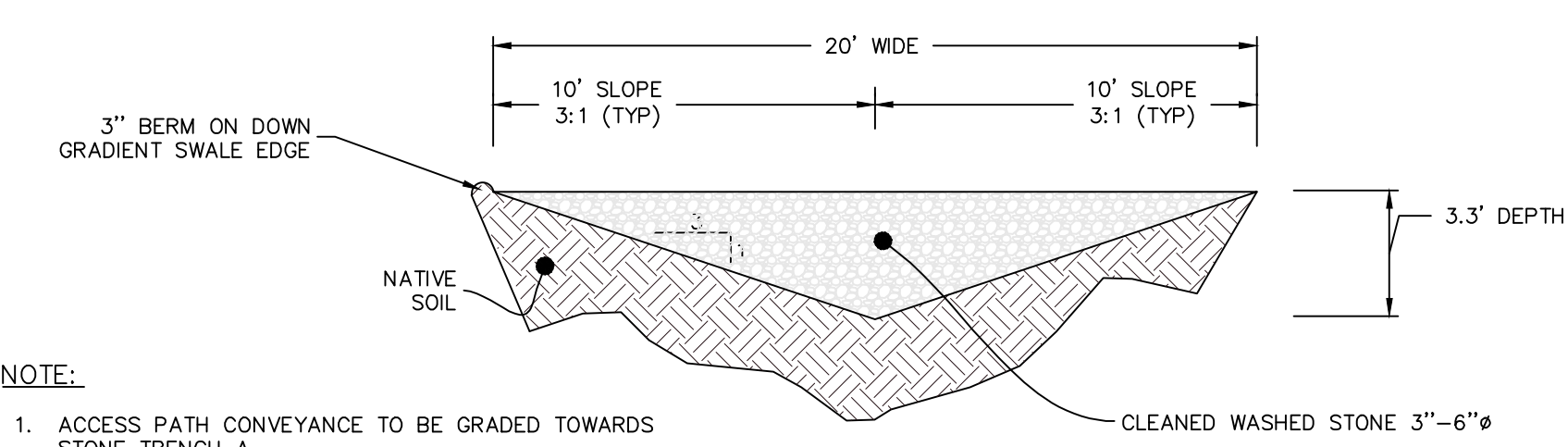
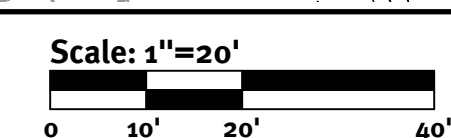
- NOTE:**
- ALL BERMS WILL RUN THE FULL LENGTH AND SIDES OF THE STONE TRENCH TO PROVIDE STORMWATER PONDING STORAGE.
  - ALL STONE TRENCHES ARE TO INCLUDE AN EARTHEN OVERFLOW WEIR (SEE TABLE AND PLANS).

DESCRIPTION	A	E
TOP OF BERM ELEVATION	171.75	185.00
TOP OF STONE ELEVATION	170.00	183.50
100 YEAR STORM ELEVATION	171.31	184.93
10 YEAR STORM ELEVATION	170.68	184.81
1 YEAR STORM ELEVATION	168.34	182.65
BOTTOM OF TRENCH ELEVATION	168.00	181.50
WEIR INVERT	171.10	184.80

Stone Trench Detail  
NOT TO SCALE

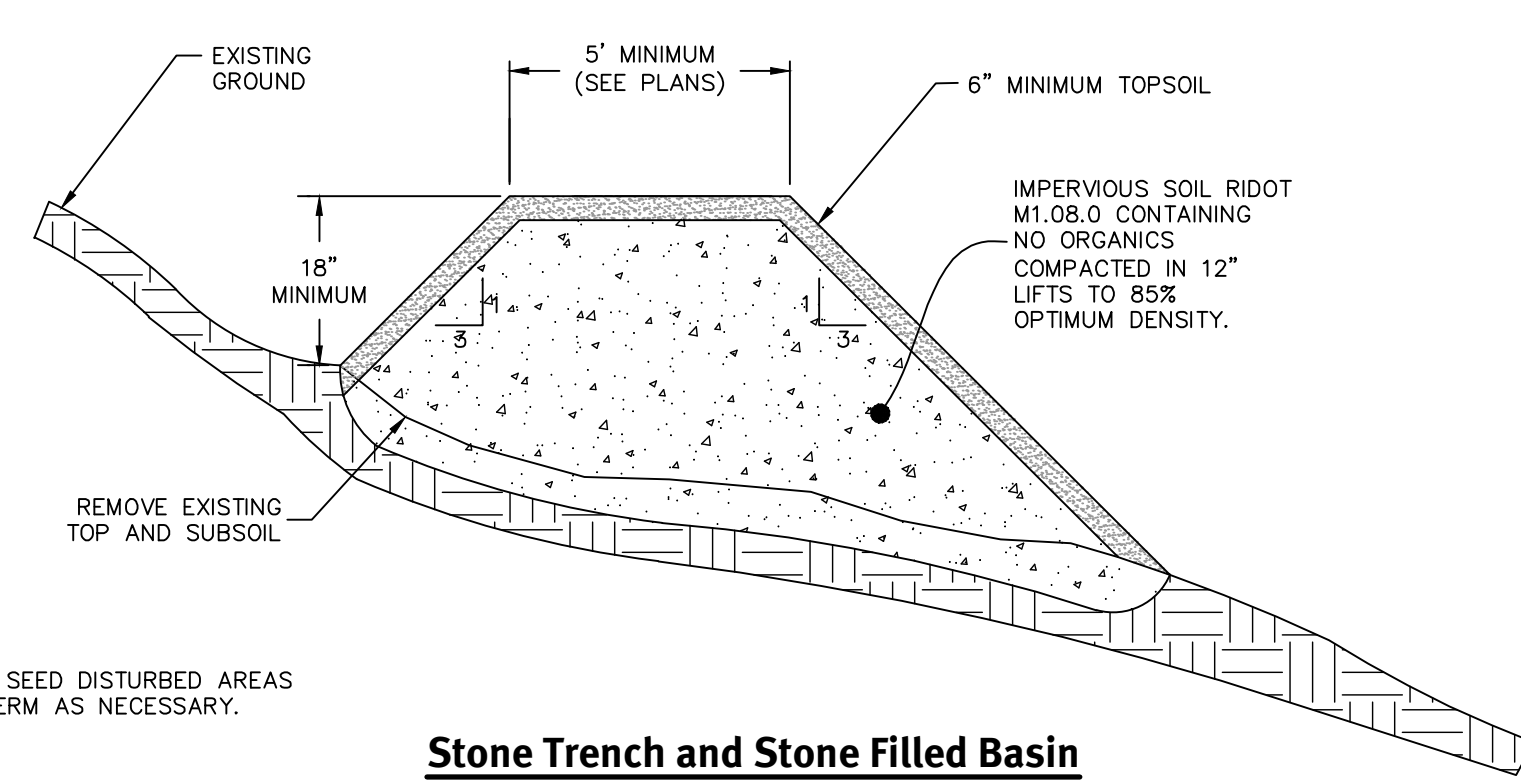


Stone Trench E



- NOTE:**
- ACCESS PATH CONVEYANCE TO BE GRADED TOWARDS STONE TRENCH A.

Crushed Stone Access Path Stone Conveyance  
NOT TO SCALE



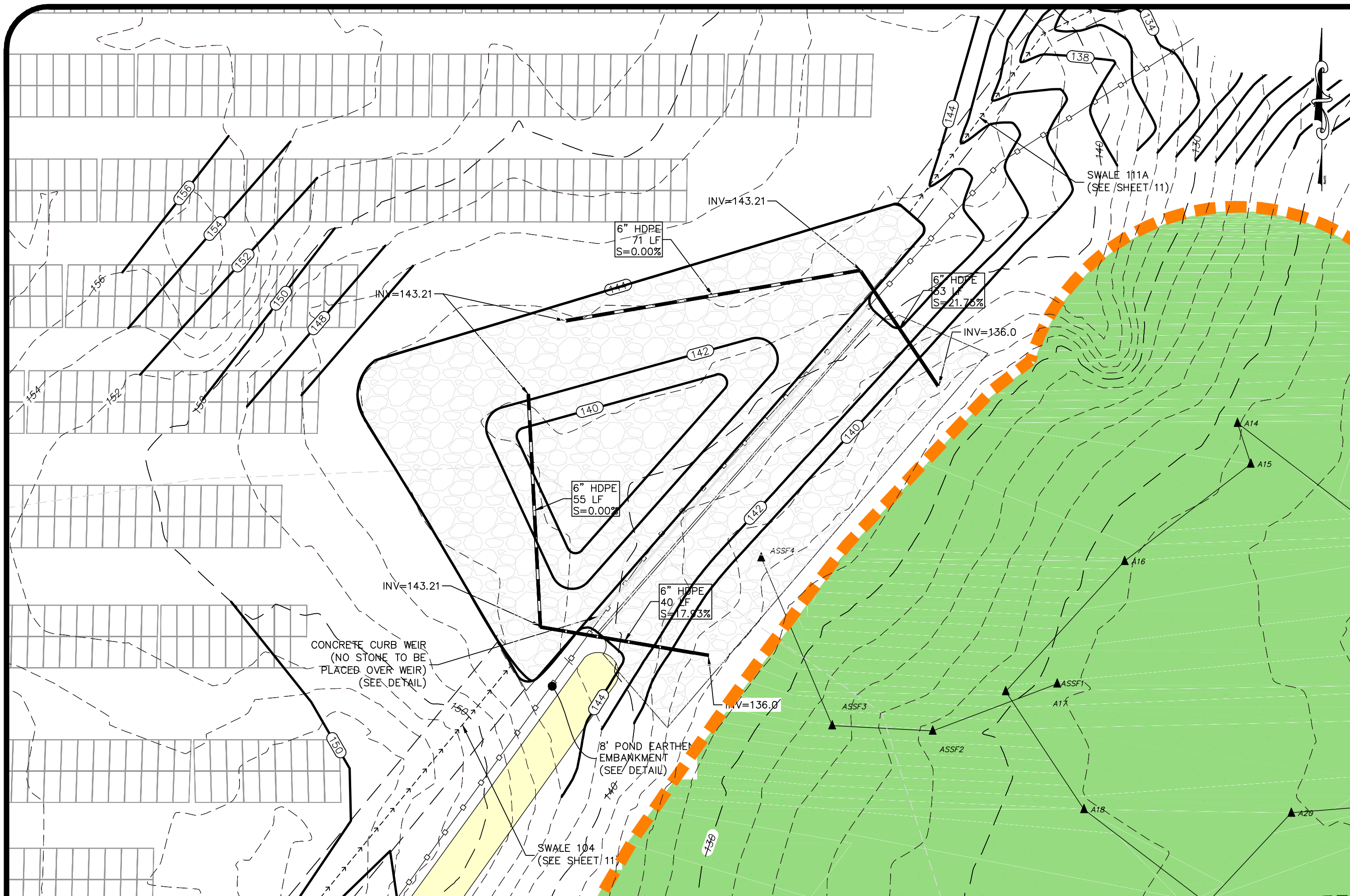
- NOTE:**
- LOAM AND SEED DISTURBED AREAS AROUND BERM AS NECESSARY.

Stone Trench and Stone Filled Basin Embankment Berm  
NOT TO SCALE

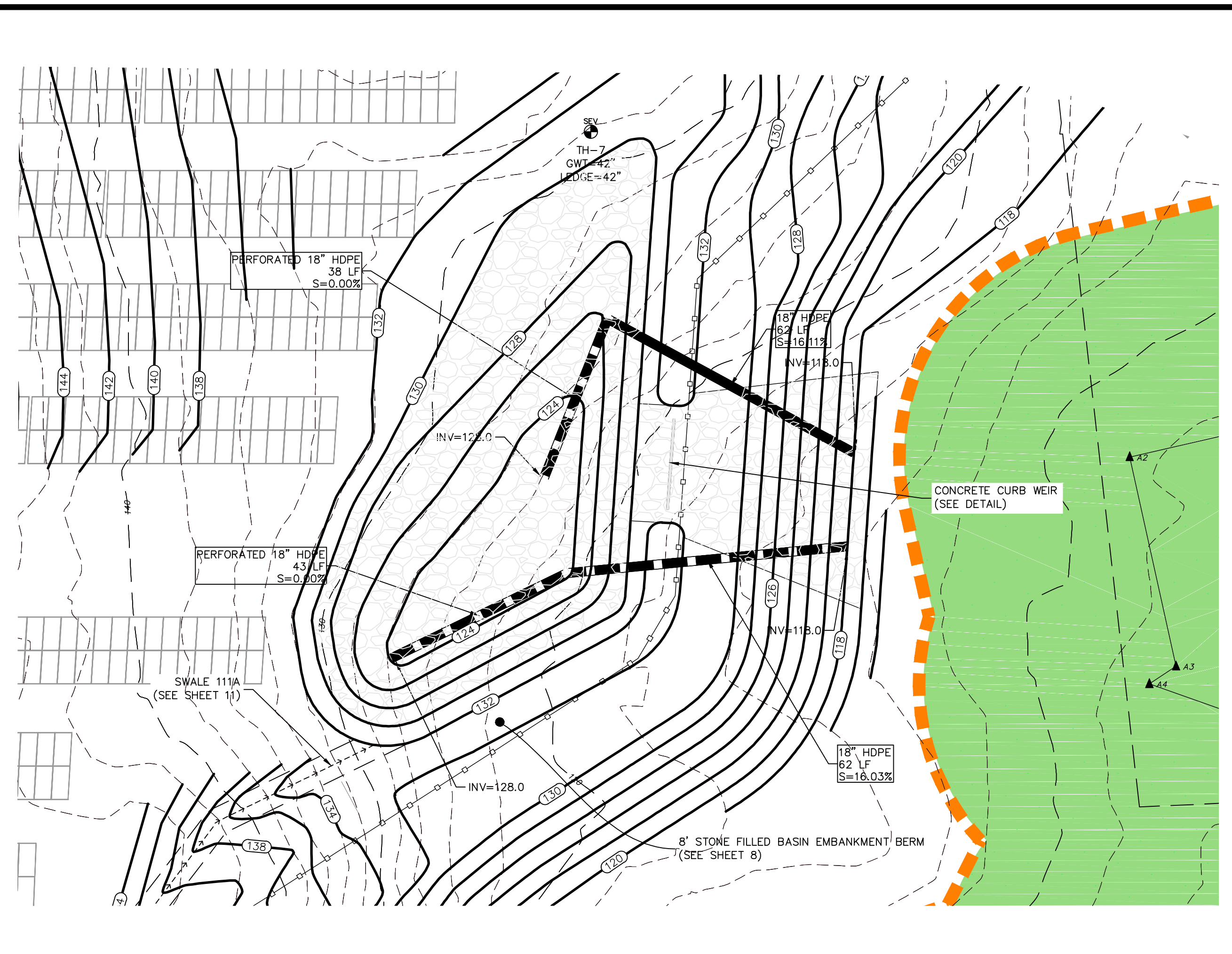
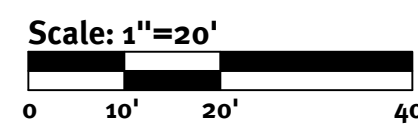
No.	Date	Description	By:
1	11/18/2021	Final Plan Submission	Design By: SEK
2	2/17/2022	RDMA Permit Modification	Design By: SEK
3	12/18/2020	City Planning Comments	Design By: SEK
4	12/18/2020	City Planning Submission	Design By: SEK

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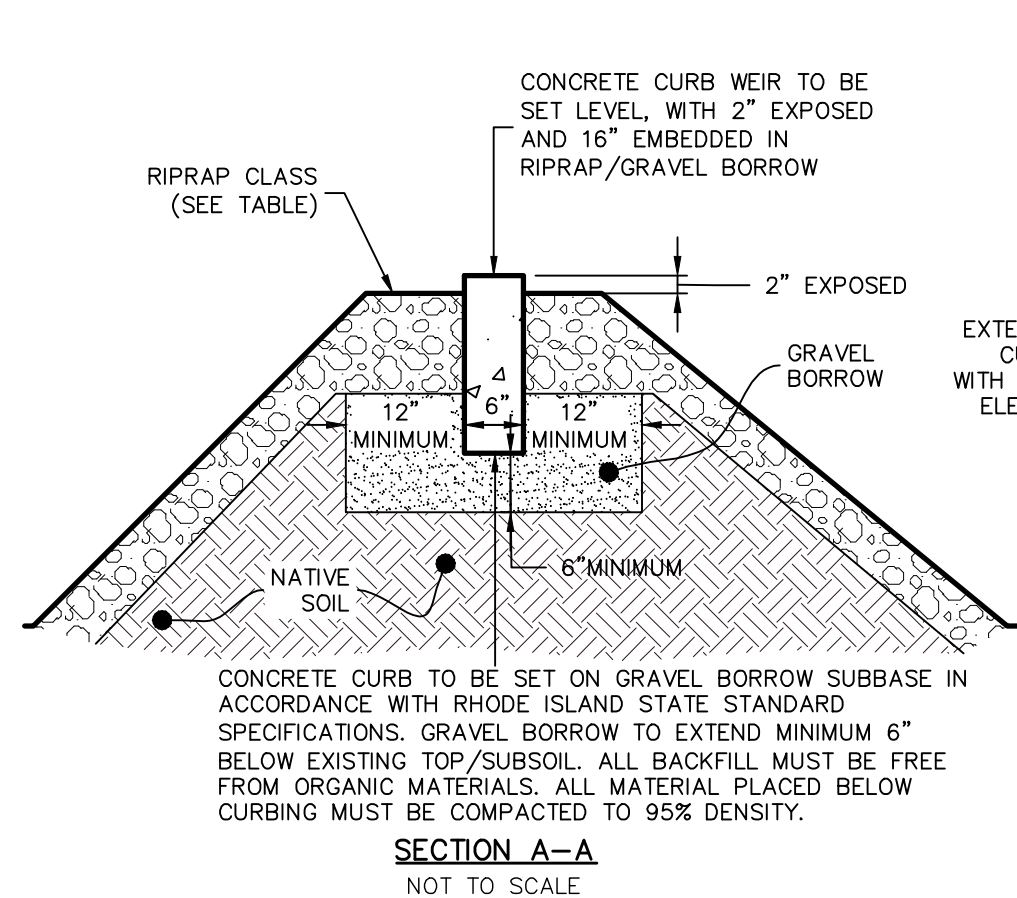
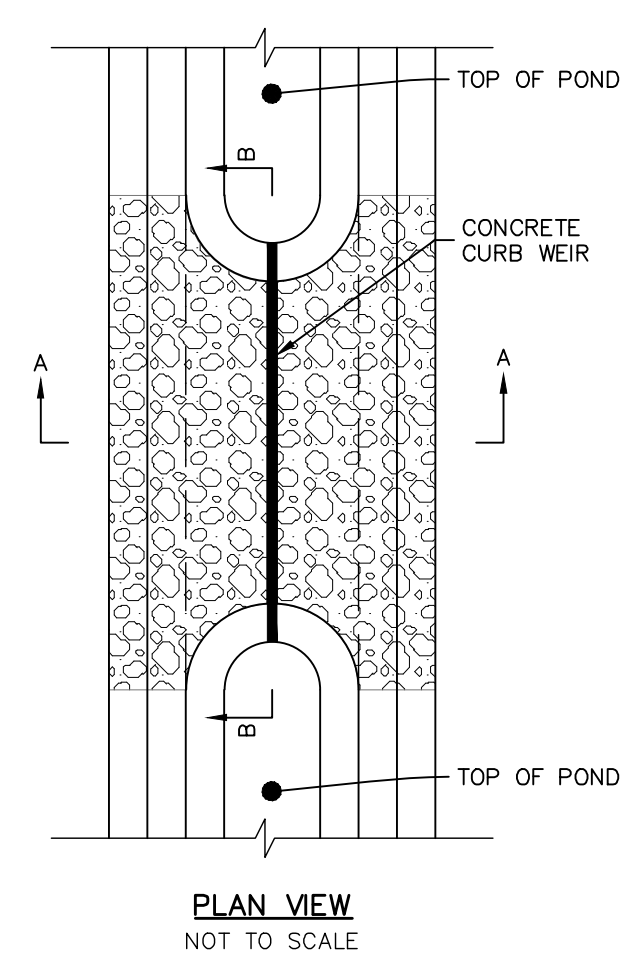
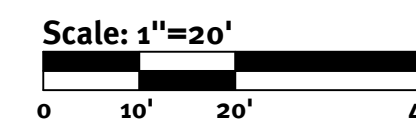




Stone Filled Basin B

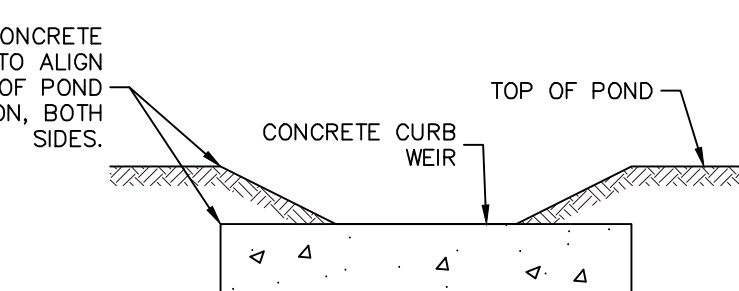


Stone Filled Basin H



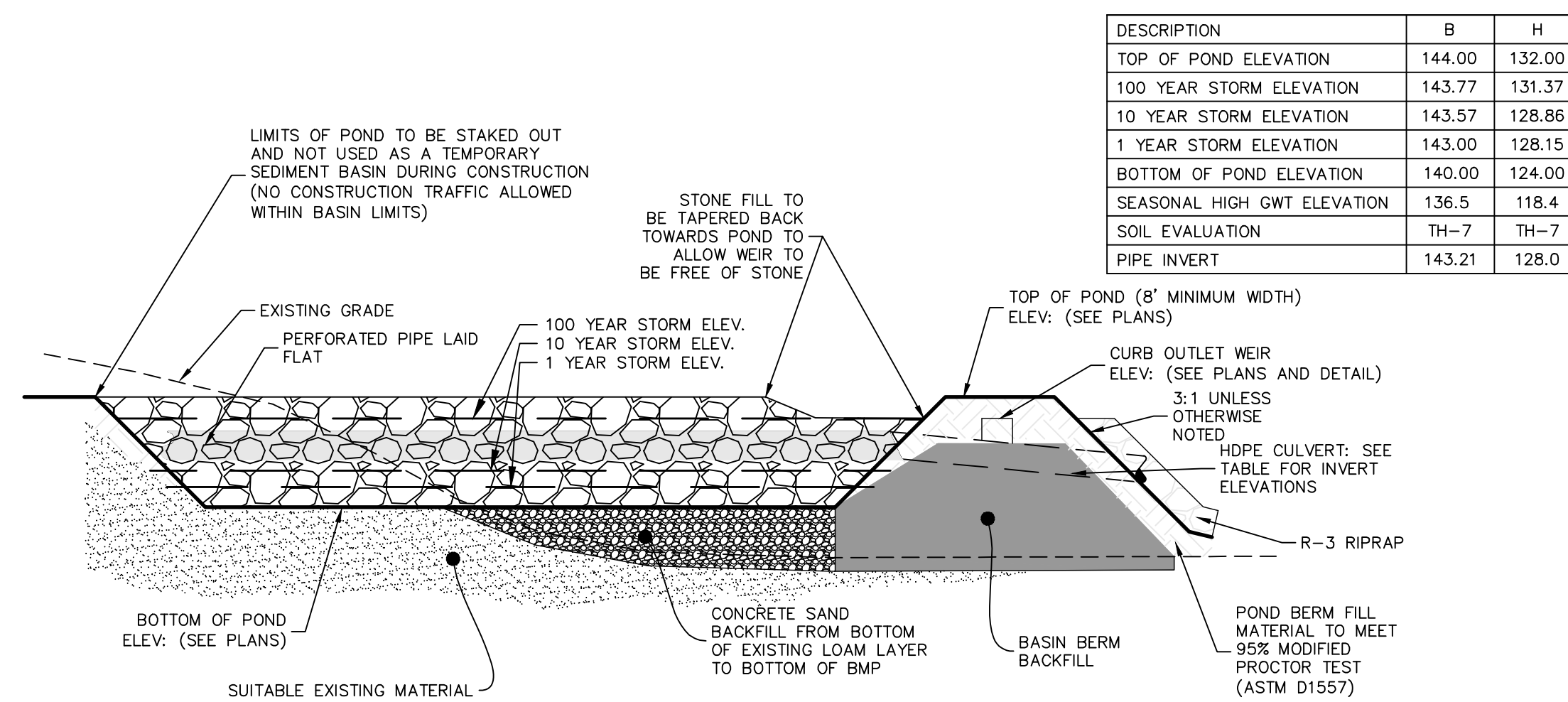
Curb Outlet Weir  
NOT TO SCALE

LOCATION	TOP ELEV.	WEIR INVERT	WEIR DEPTH	WEIR LENGTH	RIPRAP CLASS
BASIN B	144.00	143.50	0.50	100.0'	R-3
BASIN H	132.00	131.00	1.00	20.0'	R-3



SECTION B-B  
NOT TO SCALE

NOTE:  
ALL CONCRETE CURB WEIRS MUST BE MONOLITHIC.  
CONCRETE CURB WEIRS CANNOT BE MULTIPLE PRECAST CURBS JOINED IN SEQUENCE.



Stone Filled Basin  
NOT TO SCALE

DESCRIPTION	B	H
TOP OF POND ELEVATION	144.00	132.00
100 YEAR STORM ELEVATION	143.77	131.37
10 YEAR STORM ELEVATION	143.57	128.86
1 YEAR STORM ELEVATION	143.00	128.15
BOTTOM OF POND ELEVATION	140.00	124.00
SEASONAL HIGH GWT ELEVATION	136.5	118.4
SOIL EVALUATION	TH-7	TH-7
PIPE INVERT	143.21	128.0

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**DIPrete Engineering**  
Two Stafford Court, Cranston, RI 02920  
tel: 401-943-1000 fax: 401-464-6006 www.diprete-eng.com

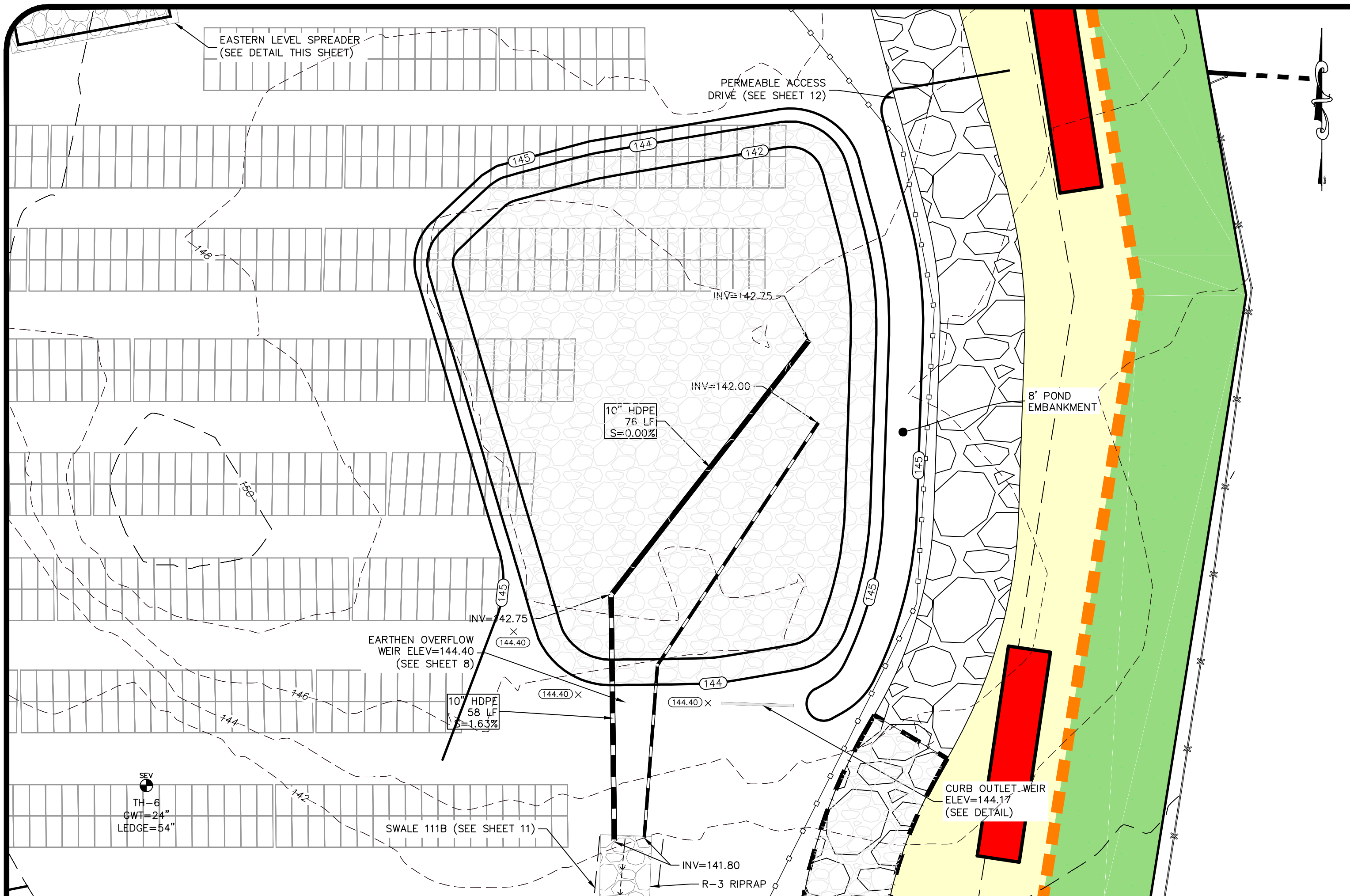
**KEVIN DEMERS**  
REGISTERED PROFESSIONAL ENGINEER CIVIL

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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.

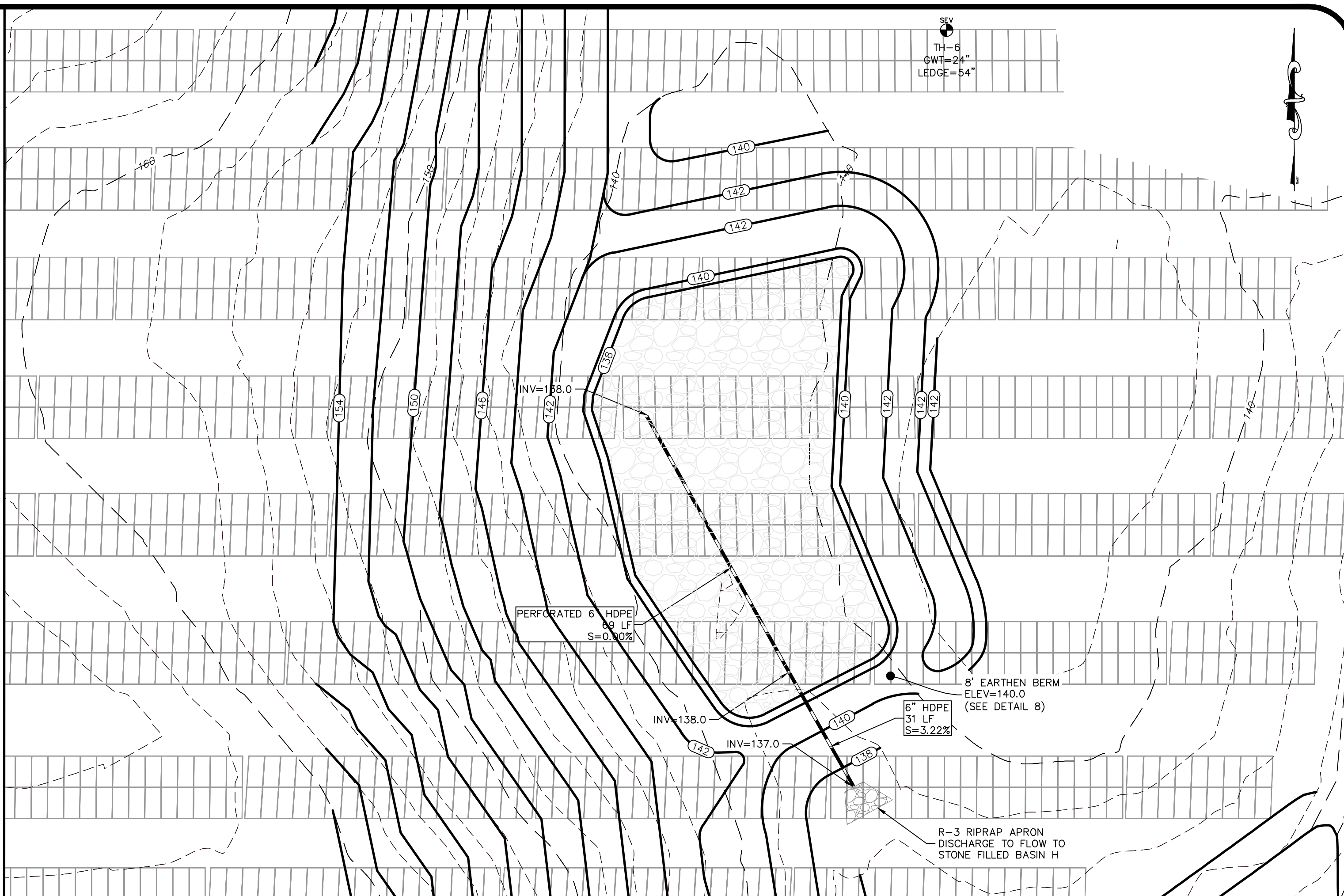
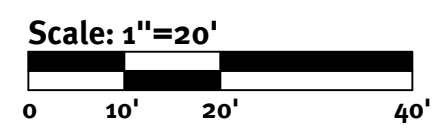
No.	Date	Description	By:	Design By: SEK
1	11/09/2021	Final Plan Submission		
2	2/17/2021	RIPRAP Permit Application		
3	12/08/2020	City Planning Comments		
4	12/08/2020	City Planning Submission		

**BMP Details - B & H**  
**Natick Avenue Solar**  
Assessor's Plat 22-3 Lots 108 & 119  
Cranston, Rhode Island  
Client: **Natick Solar, LLC**  
117 Metro Center Blvd #2007, Warwick, Rhode Island 02886  
tel: 401-943-1000

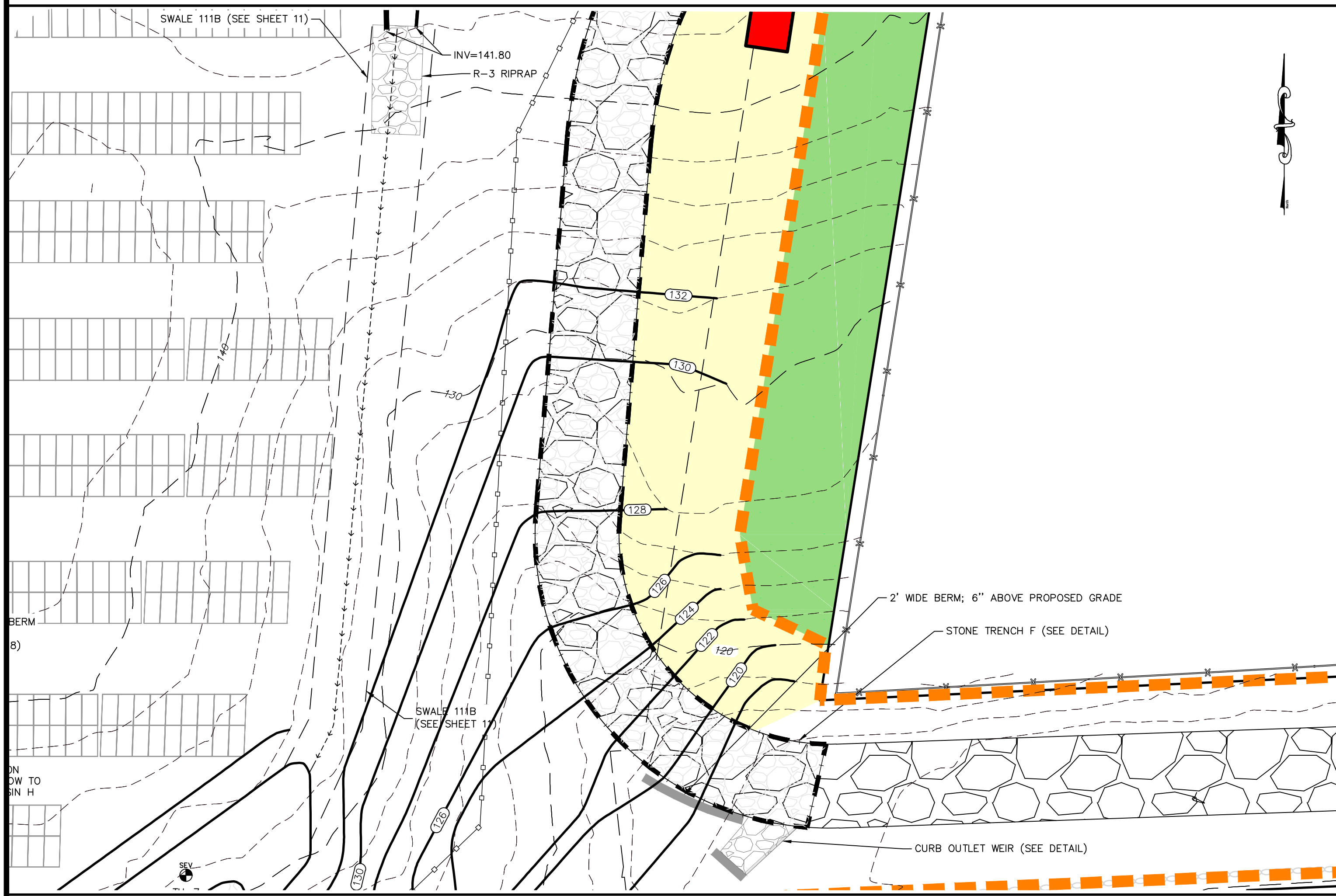
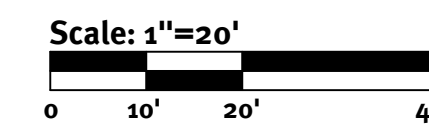




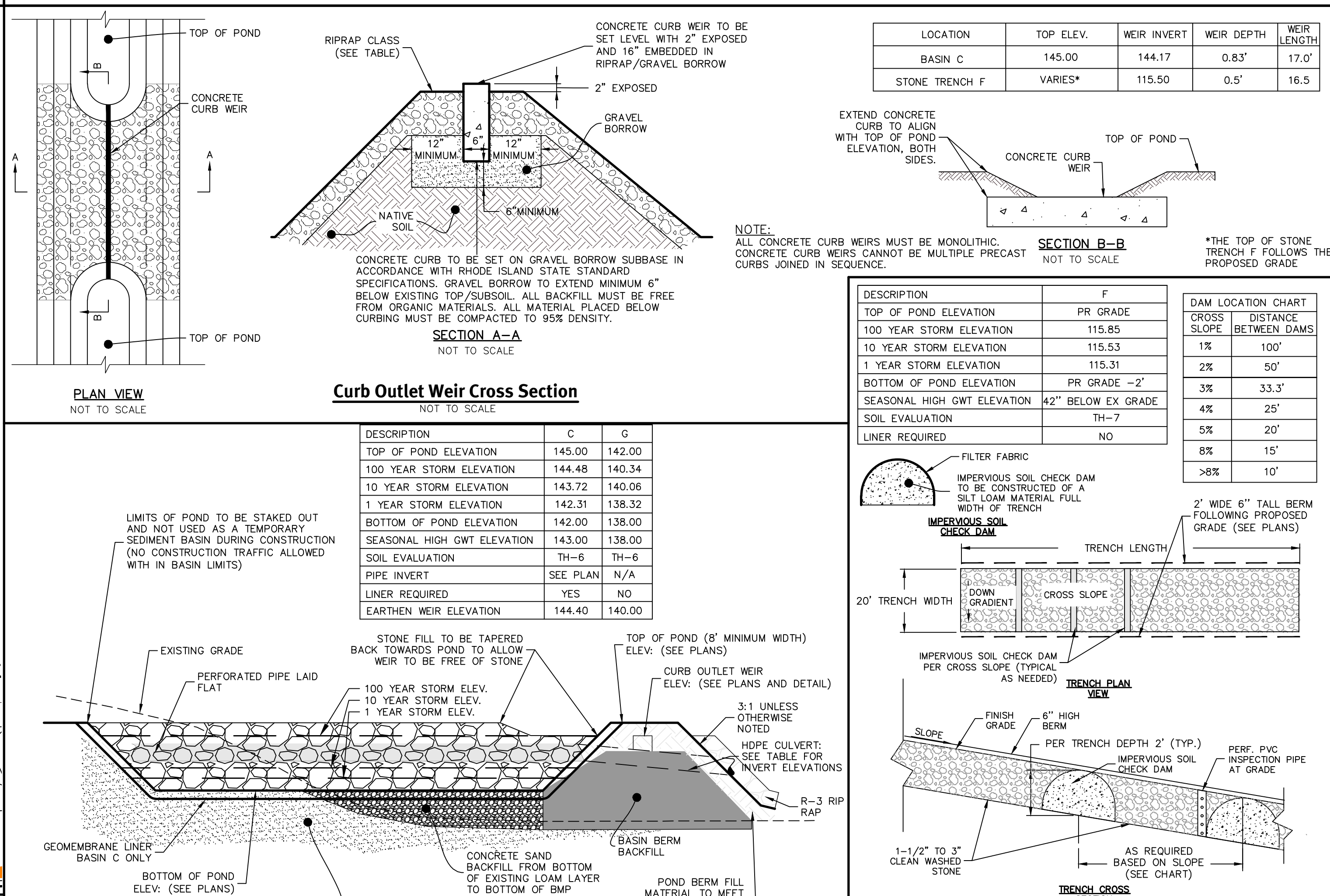
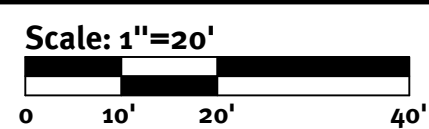
Stone Filled Basin C (LINED)



Stone Filled Basin G

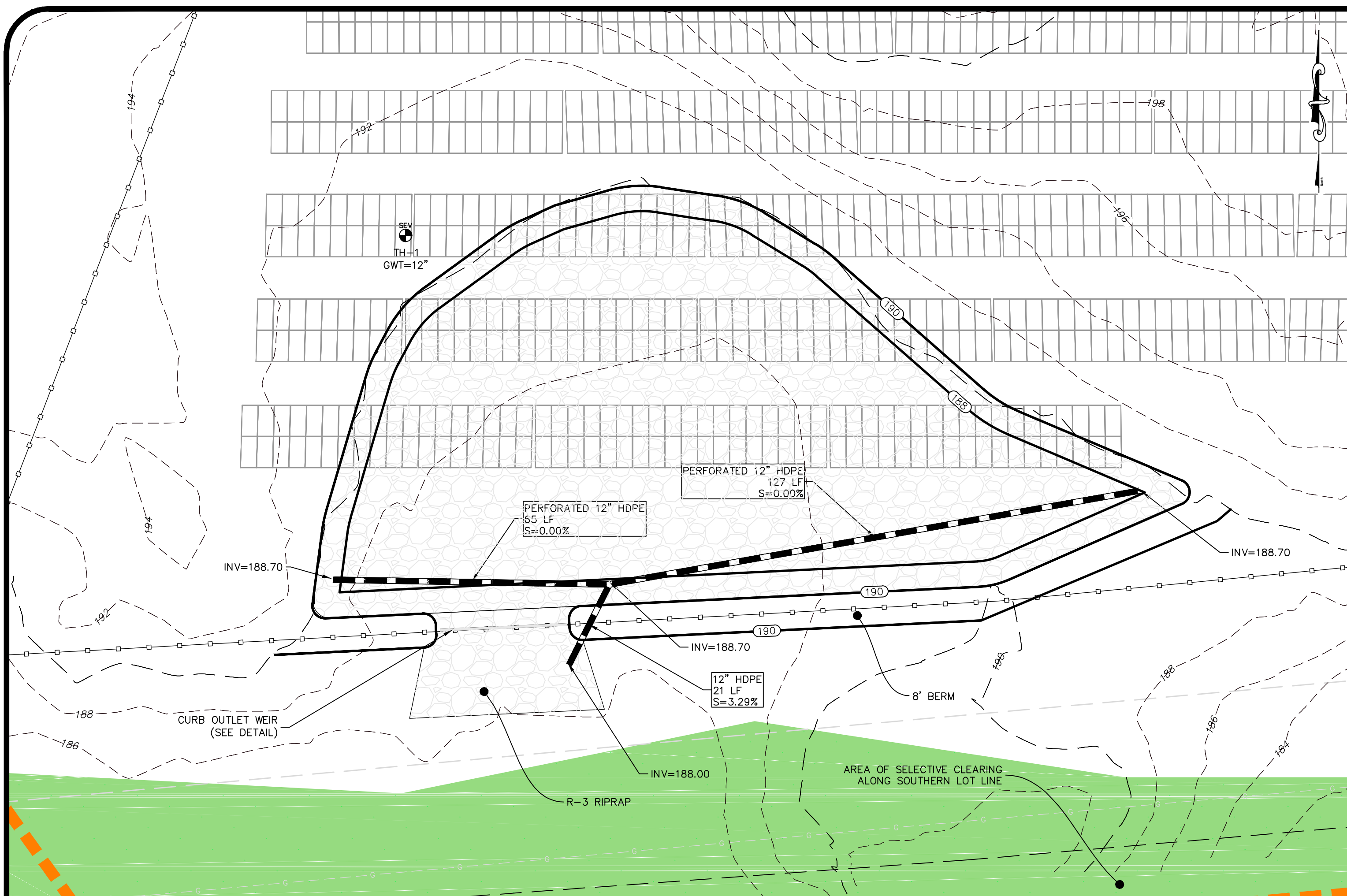


Stone Trench F

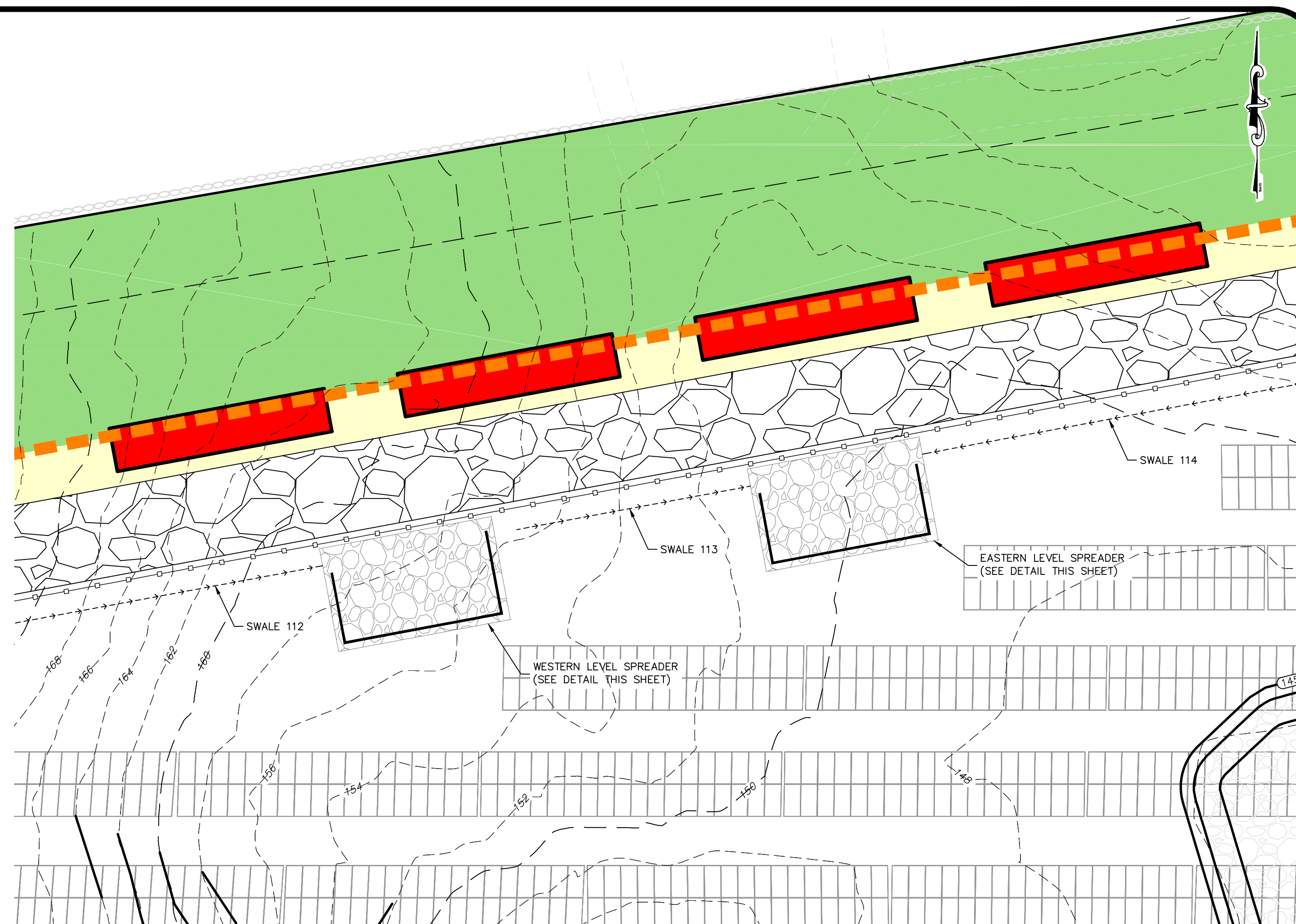
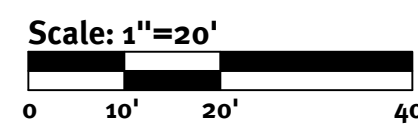


No.	Date	Description	By
1	11/09/2023	Final Plan Submission	Design By: SEK
2	2/17/2024	Revised Plan Submission	Design By: SEK
3	12/18/2024	City Planning Comments	Design By: SEK
4		City Planning Comments	Design By: SEK

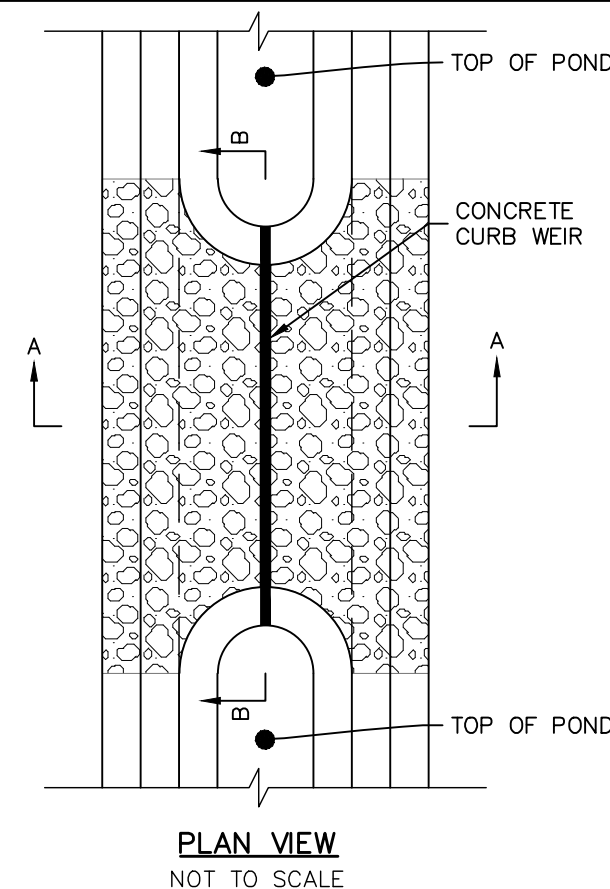
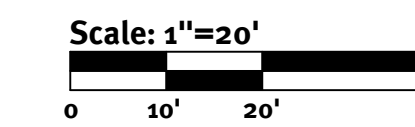




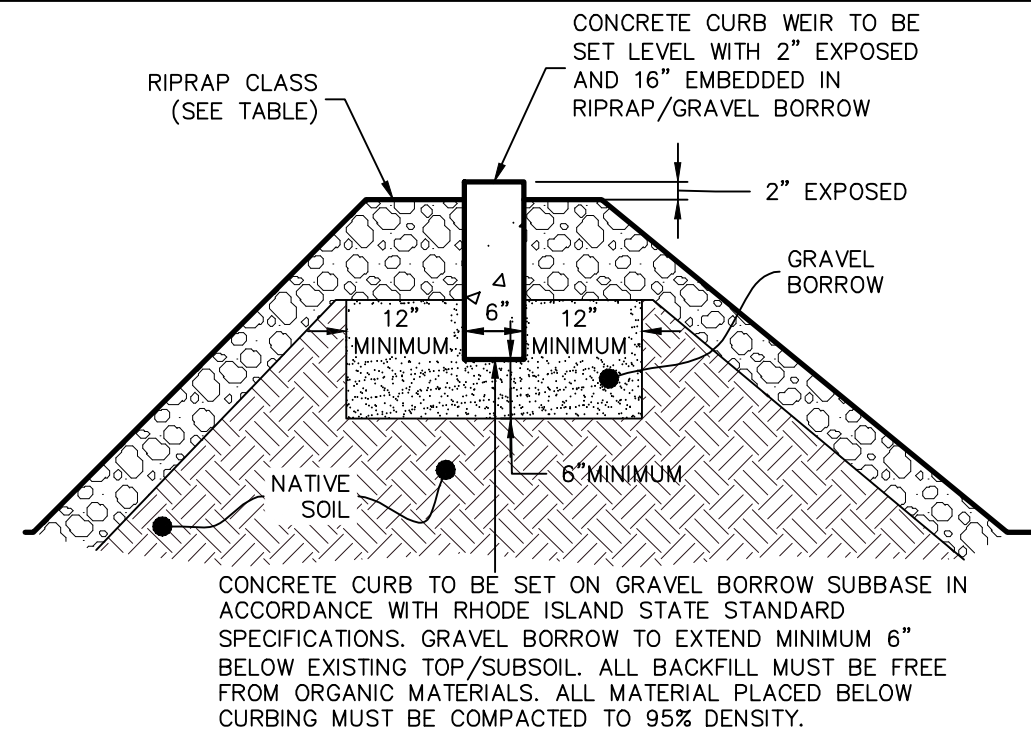
Stone Filled Basin D



Swale and Culvert Detail

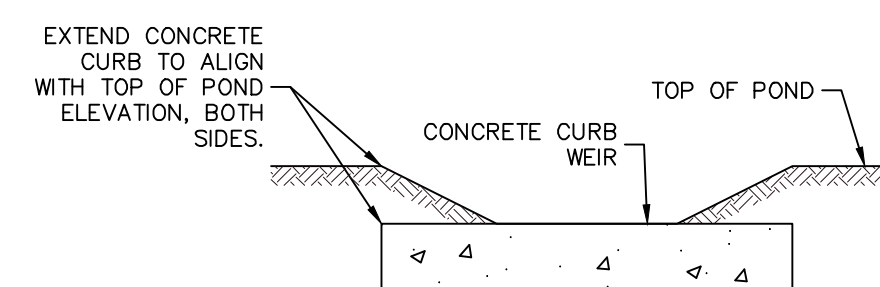


PLAN VIEW  
NOT TO SCALE



SECTION A-A  
NOT TO SCALE

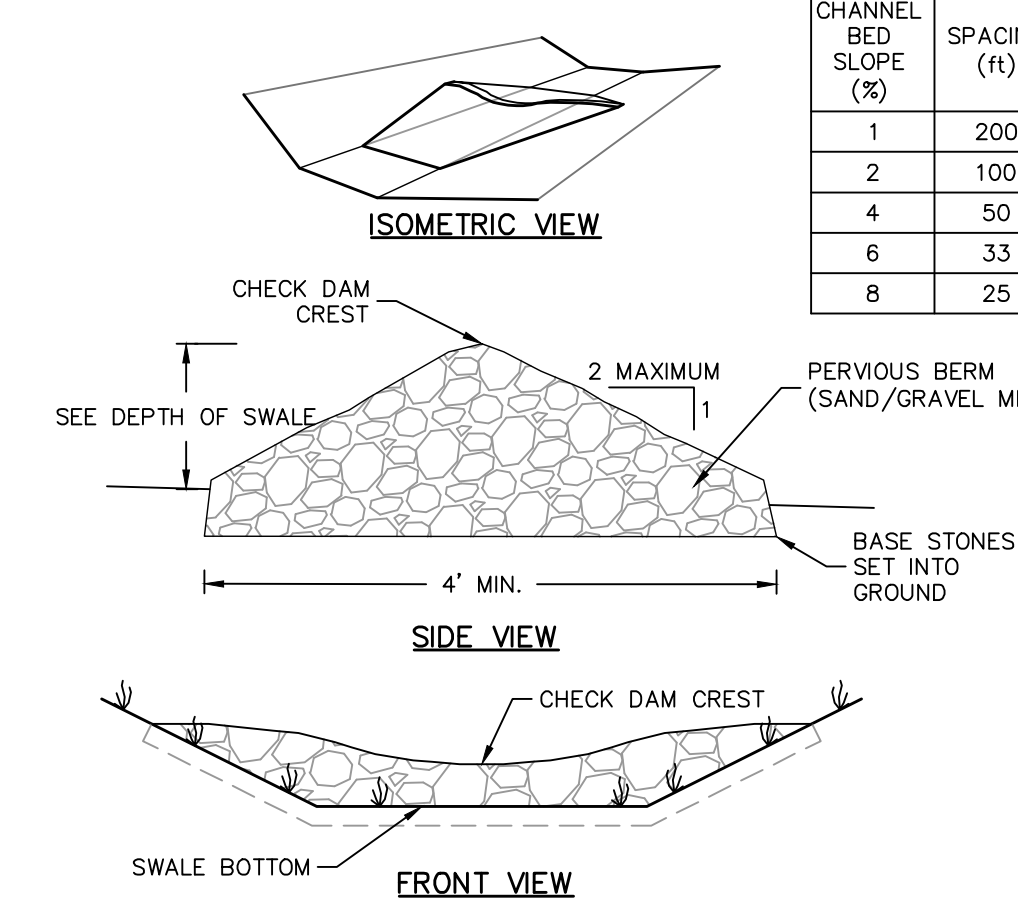
Curb Outlet Weir Cross Section  
NOT TO SCALE



SECTION B-B  
NOT TO SCALE

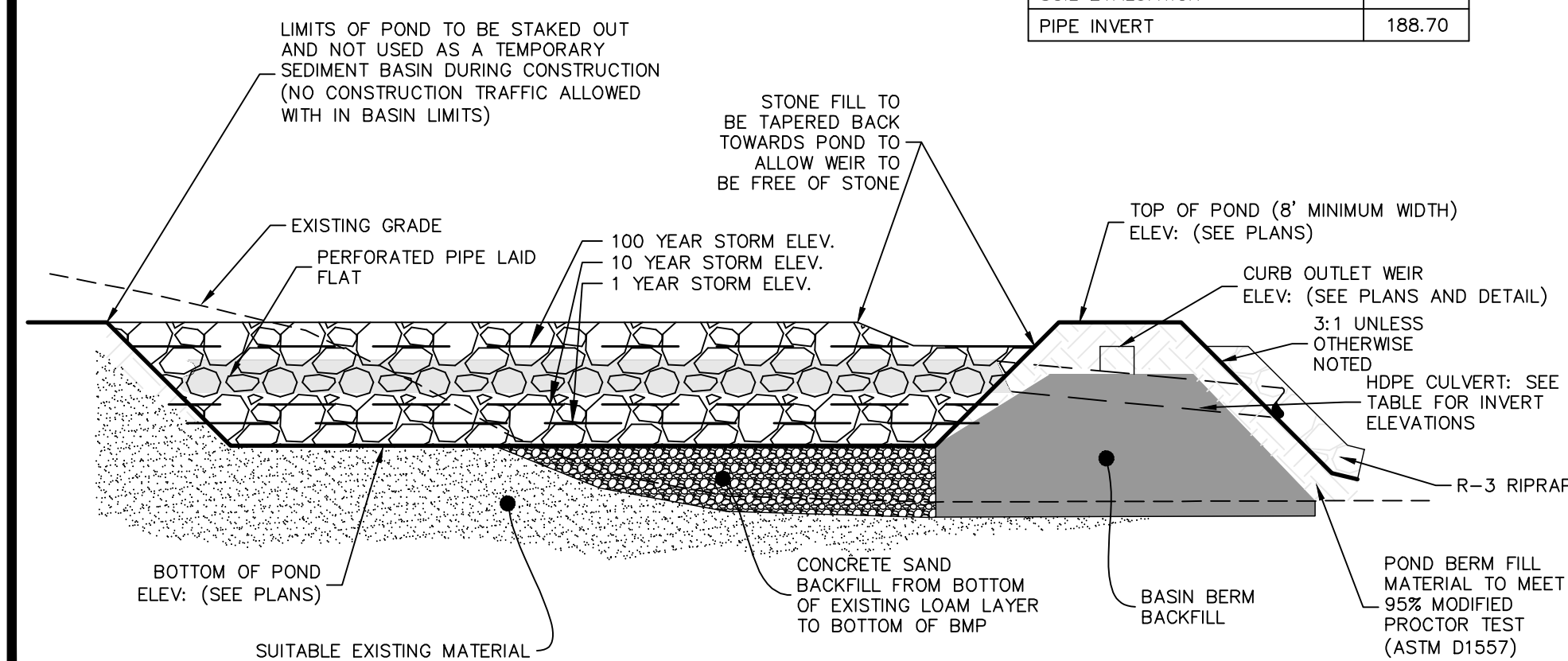
NOTE:  
ALL CONCRETE CURB WEIRS MUST BE MONOLITHIC.  
CONCRETE CURB WEIRS CANNOT BE MULTIPLE PRECAST  
CURBS JOINED IN SEQUENCE.

LOCATION	TOP ELEV.	WEIR INVERT	WEIR DEPTH	WEIR LENGTH
BASIN D	190.00	189.75	0.25'	30.0'



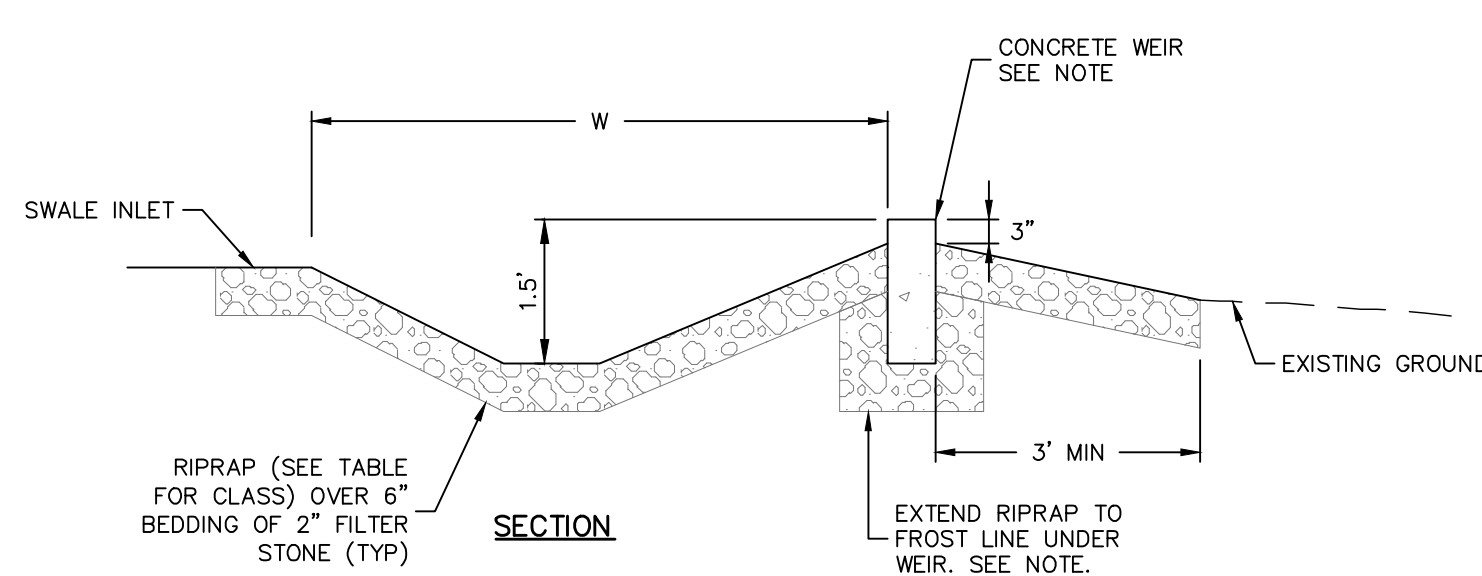
Drainage Swale Stone Check Dam  
NOT TO SCALE

DESCRIPTION	D
TOP OF POND ELEVATION	190.00
100 YEAR STORM ELEVATION	189.73
10 YEAR STORM ELEVATION	188.92
1 YEAR STORM ELEVATION	188.38
BOTTOM OF POND ELEVATION	188.00
SEASONAL HIGH GWT ELEVATION	187.0
SOIL EVALUATION	TH-1
PIPE INVERT	188.70



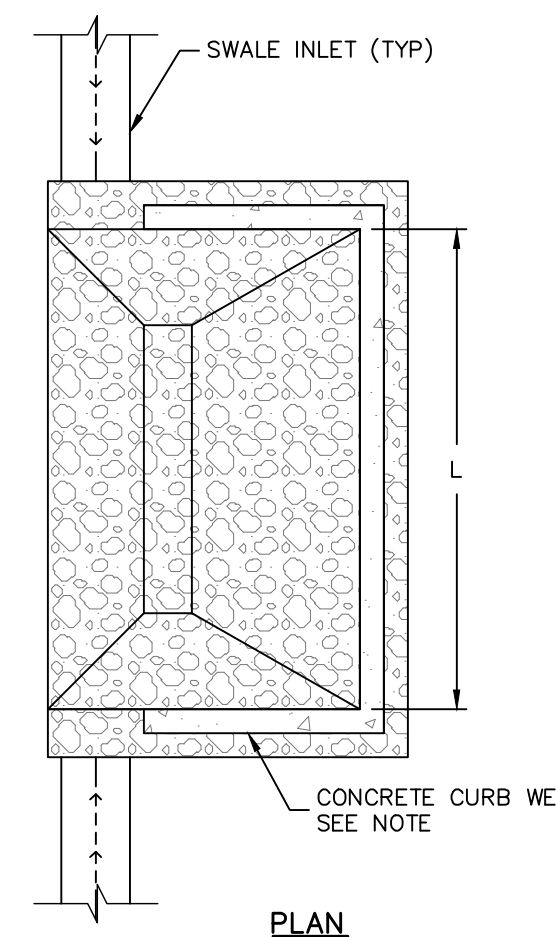
Stone Filled Basin  
NOT TO SCALE

LOCATION	INVERT	WIDTH (W)	LENGTH (L)	CONCRETE CURB WEIR ELEV.	RIPRAP CLASS
WESTERN	159.0	23'	40'	160.5	R-3
EASTERN	148.8	23'	40'	150.3	R-3

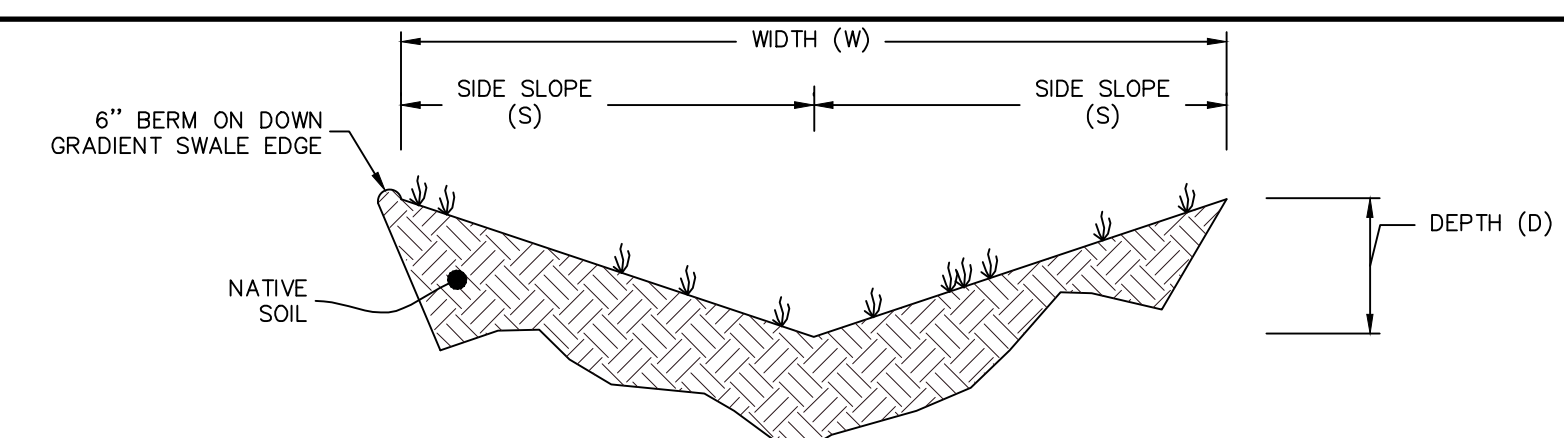


Level Spreader  
NOT TO SCALE

NOTE:  
LEVEL SPREADER CONCRETE WEIR MAY BE:  
- MONOLITHIC, CAST IN PLACE CONCRETE WITH INVERT BELOW THE FROST LINE (MINIMAL MAINTENANCE)  
- SERIES OF PRECAST CONCRETE CURB SECTIONS, NO END CHAMFERS. (FREQUENT MAINTENANCE TO KEEP WEIR LEVEL) - MUST INCLUDE GRAVEL BASE DOWN TO FROST DEPTH  
- TIMBER NOT PERMITTED



PLAN



POND OR TRENCH	101	102	104	111A	111B	112	113	114
WIDTH (W)	12'	6'	12'	6'	15'	6'	6'	6'
SIDE SLOPE (S)	7:1	3:1	3:1	3:1	7:1	3:1	3:1	3:1
LONGITUDINAL SLOPE	14.8%	9.8%	5.1%	13.2%	5.4%	11.8%	9.4%	2.6%
SWALE LENGTH	559'±	482'±	881'±	91'±	179'±	194'±	54'±	111'±
DEPTH	0.84'	1.0'	2.0'	1.0'	1.07'	1.0'	1.0'	1.0'
CHECK DAMS REQUIRED	YES	YES	YES	YES	YES	YES	YES	YES

Swale Cross Section  
NOT TO SCALE

BMP Details - D & Swales  
Natick Avenue Solar  
Assessor's Plat 22-3 Lots 108 & 119  
Cranston, Rhode Island

Natick Solar, LLC  
17 Metro Center Blvd #2007, Warwick, Rhode Island 02886  
10/18/2024

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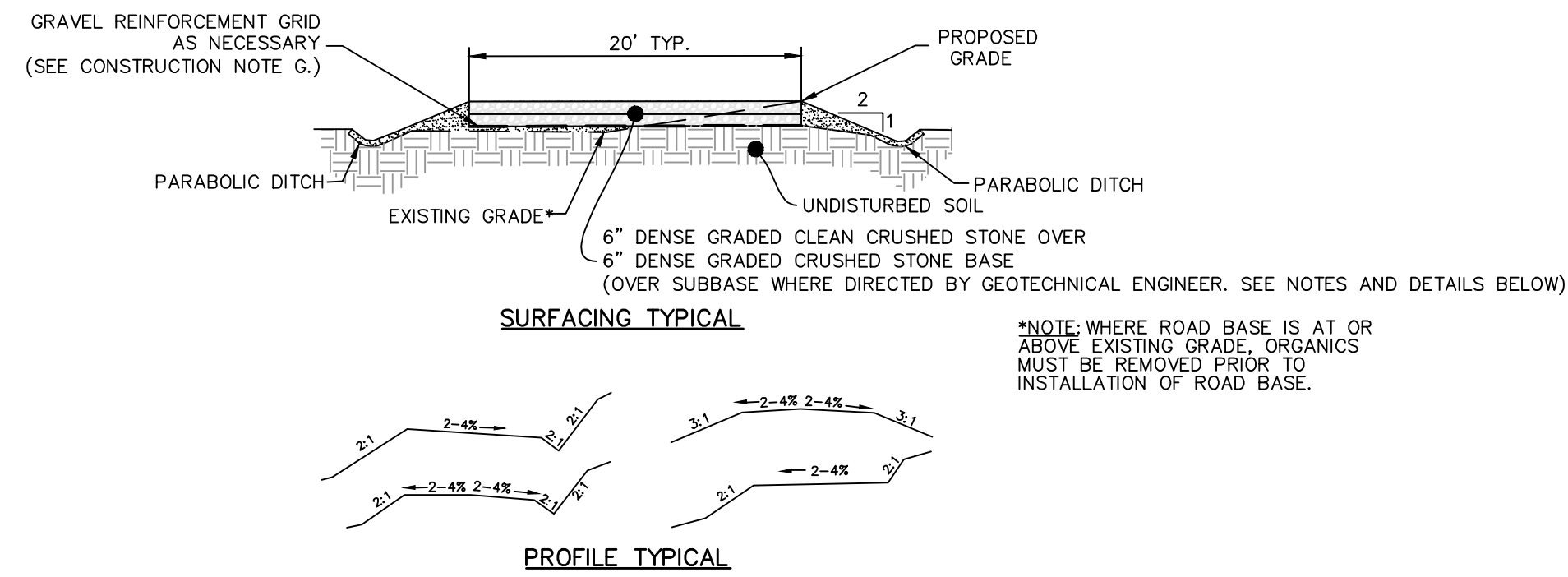
The contractor is responsible for all of the means, methods, safety, precautions and requirements, and OSHA compliance in the implementation of this plan and design.

KEVIN DEMERS  
REGISTERED PROFESSIONAL ENGINEER CIVIL

DiPrete Engineering  
Two Stafford Court, Cranston, RI 02920  
Tel: 401-943-1000 Fax: 401-464-6006 www.diprete-eng.com

Boston • Providence • Newport





CLEAN CRUSHED STONE SPECIFICATIONS	
SIEVE DESIGNATION	PERCENTAGE BY MASS (WEIGHT) PASSING SQUARE MESH SIEVES
90mm (3.5in)	100
75mm (3in)	90-100
50mm (2in)	75-100
25mm (1in)	50-80
12.5mm (0.5in)	30-60
4.75mm (No.4)	0-40
7.5um (No. 200)	0

**DENSE GRADED CLEAN CRUSHED STONE:**

A. DENSE GRADED CLEAN CRUSHED STONE MUST CONSIST OF CLEAN, WASHED, HARD, UNIFORMLY GRADED, CRUSHED STONE. IT MUST BE SUFFICIENTLY FREE FROM DIRT, DELETERIOUS MATERIAL, AND PIECES THAT ARE STRUCTURALLY WEAK AND MUST MEET THE FOLLOWING REQUIREMENTS:

B. SOURCE OF MATERIAL MUST BE OBTAINED FROM AREAS STRIPPED AND CLEANED OF SOIL AND DEBRIS BEFORE BLASTING

C. MATERIAL COARSER THAN THE 4.75mm (No. 4) SIEVE MUST NOT BE MORE THAN 30 PERCENT, BY MASS (WEIGHT), OF THIN AND/OR ELONGATED PIECES.

BASE SPECIFICATIONS	
SIEVE DESIGNATION	PERCENTAGE BY MASS (WEIGHT) PASSING SQUARE MESH SIEVES
90mm (3.5in)	100
75mm (3in)	90-100
50mm (2in)	75-100
25mm (1in)	50-80
12.5mm (0.5in)	30-60
4.75mm (No.4)	15-40
7.5um (No. 200)	0-6

**DENSE GRADED CRUSHED STONE FOR BASE:**

A. DENSE GRADED CRUSHED STONE FOR BASE MUST CONSIST OF CLEAN, HARD, UNIFORMLY GRADED, CRUSHED STONE. IT MUST BE SUFFICIENTLY FREE FROM DIRT, DELETERIOUS MATERIAL, AND PIECES THAT ARE STRUCTURALLY WEAK AND MUST MEET THE FOLLOWING REQUIREMENTS:

B. SOURCE OF MATERIAL MUST BE OBTAINED FROM AREAS STRIPPED AND CLEANED OF SOIL AND DEBRIS BEFORE BLASTING

C. MATERIAL COARSER THAN THE 4.75mm (No. 4) SIEVE MUST NOT BE MORE THAN 30 PERCENT, BY MASS (WEIGHT), OF THIN AND/OR ELONGATED PIECES.

SUBBASE SPECIFICATIONS (WHERE DIRECTED)			
CONDITIONS:	ROAD THICKNESS	STONE SIZE	FINES
SUBBASE LAYER WITH GEOTEXTILE FABRIC (NOT EXCESSIVELY WET)	4" MIN.	3-3 1/2	0-6%
SUBBASE LAYER WITH GEOTEXTILE FABRIC (WET CONDITIONS)	6" MIN.	3-3 1/2	0-6%

**CONSTRUCTION NOTE:**

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

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

C. TREES, STUMPS, ROOTS, BRUSH AND WEEDS MUST 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.

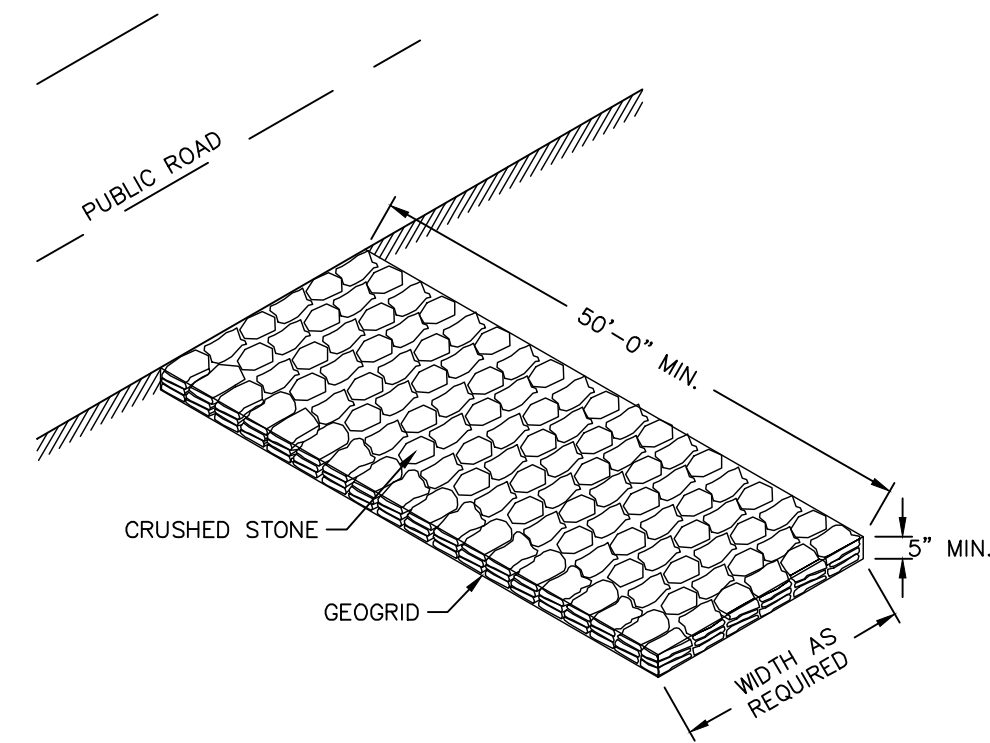
E. AT MINIMUM, ROADSIDE DITCHES MUST BE 1FT BELOW ROAD SURFACE.

F. DISCHARGE POINTS FOR DITCHES MUST NOT BE NEAR WETLANDS OR STREAMS, AND OR BE LOCATED AT THE DIRECTION OF THE DESIGN ENGINEER.

G. CONTRACTOR TO INSTALL GRAVEL REINFORCEMENT GRID AS NECESSARY TO PREVENT EROSION AND/OR VEHICULAR DAMAGE TO THE ACCESS ROAD.

**Crushed Stone Access Path Detail**

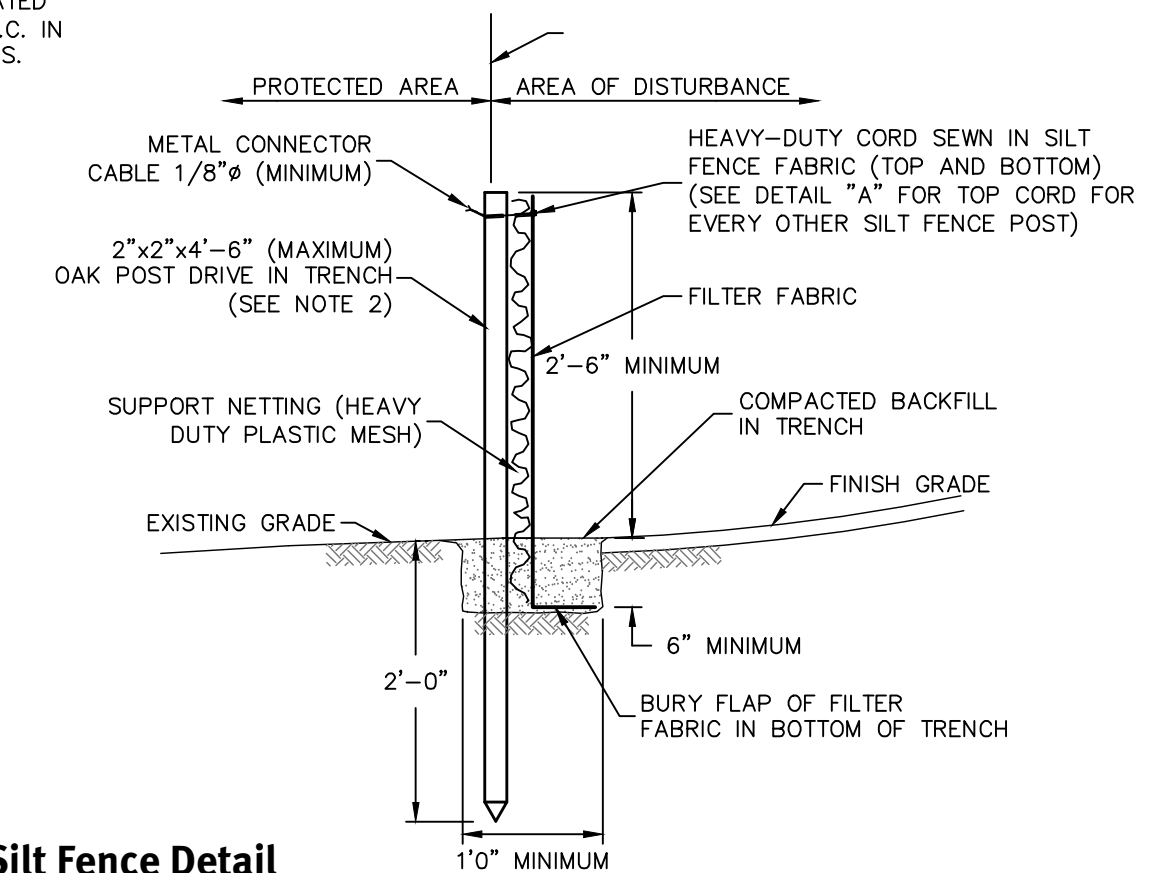
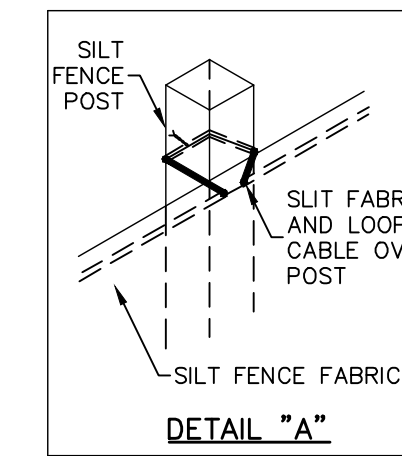
NOT TO SCALE



**Construction Access**

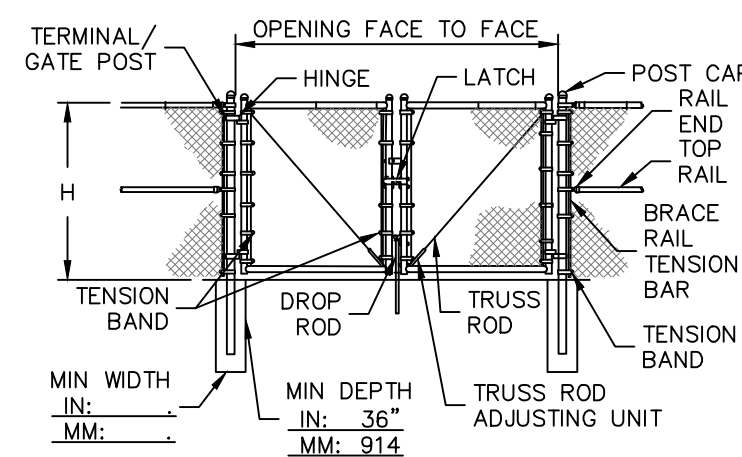
NOT TO SCALE

- NOTES:**
- 2"x2"x4'-6" (MAXIMUM) OAK POSTS FOR SILT FENCE MUST 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 MUST BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.



**Silt Fence Detail**

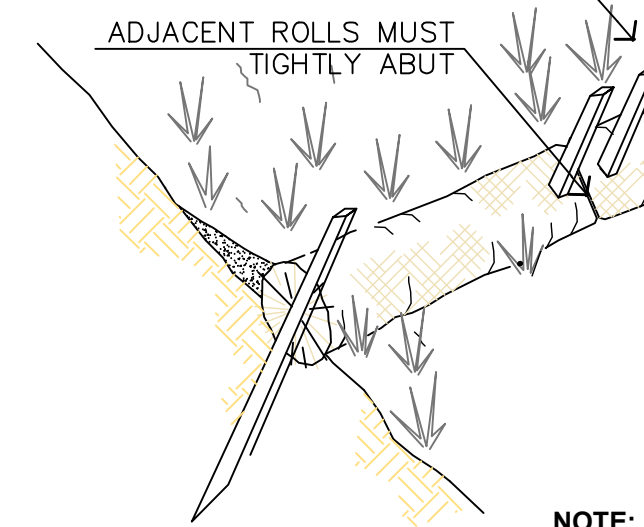
NOT TO SCALE



**Double Swing Gate 12' Opening**

NOT TO SCALE

1"x1"x3" WOODEN STAKES TO BE INSTALLED EVERY 4' AND AT THE END OF EACH WATTLE (6 STAKES PER WATTLE)



1"x1"x3" WOODEN STAKES TO BE INSTALLED EVERY 4' AND AT THE END OF EACH WATTLE (6 STAKES PER WATTLE)

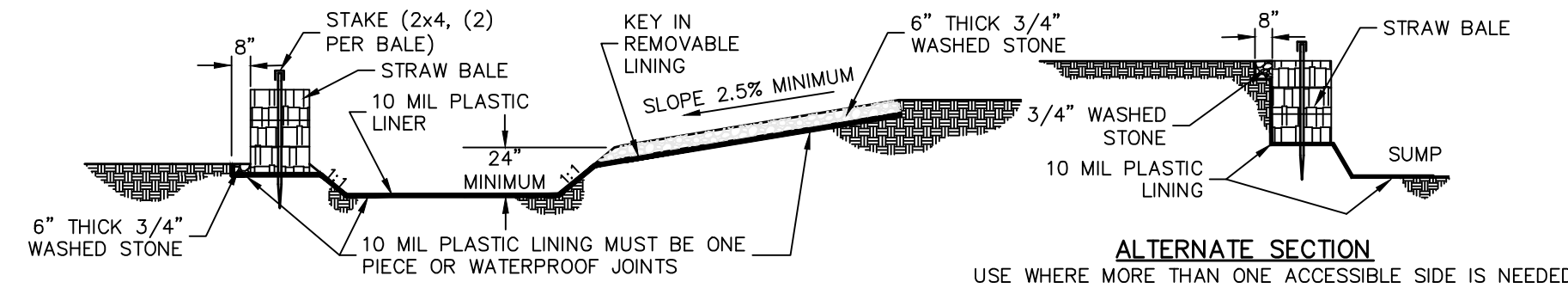
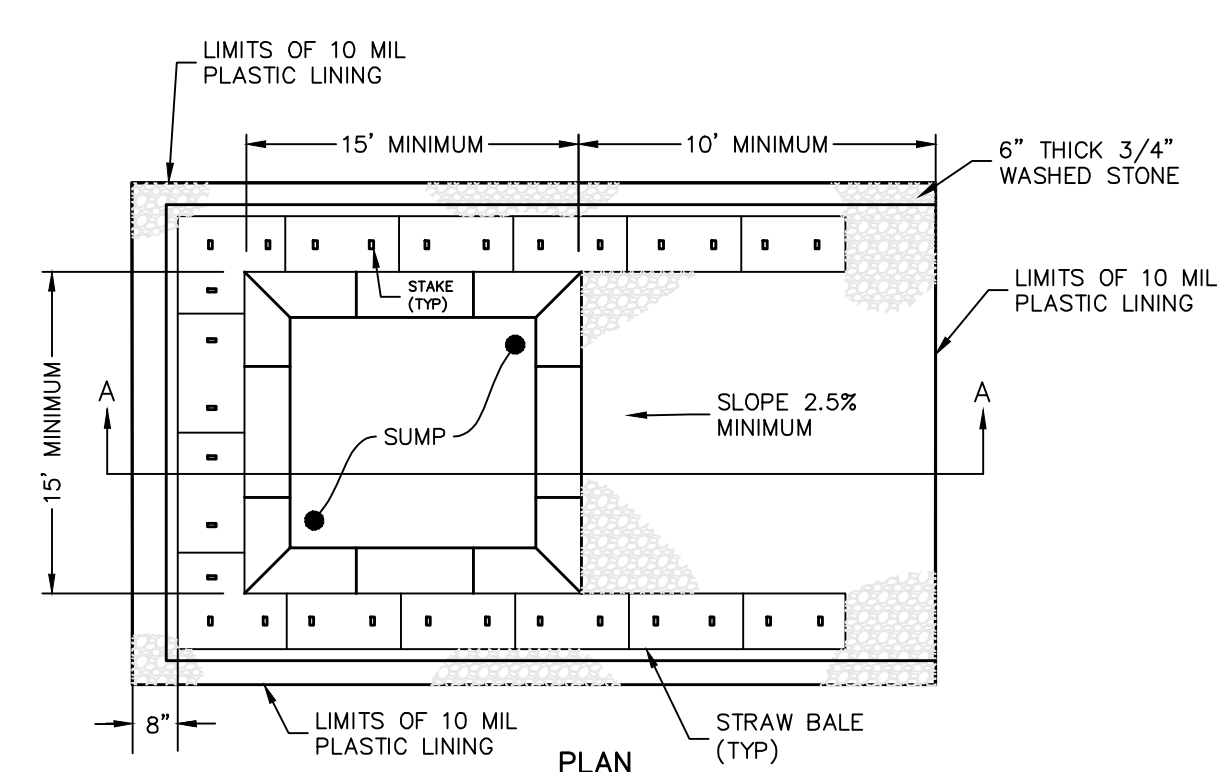
(11.5" DIA. X 25' LENGTH) STRAW WATTLES MANUFACTURED BY EARTH SAVERS ITEM # ES11.518PRP WWW.EARTH-SAVERS.COM

**NOTE:** EROSION CONTROL BARRIER TO BE INSTALLED PER MANUFACTURERS SPECIFICATIONS

**Straw Wattle Sediment Barrier**

NOT TO SCALE

CROSS SECTION VIEW



**SECTION A-A**

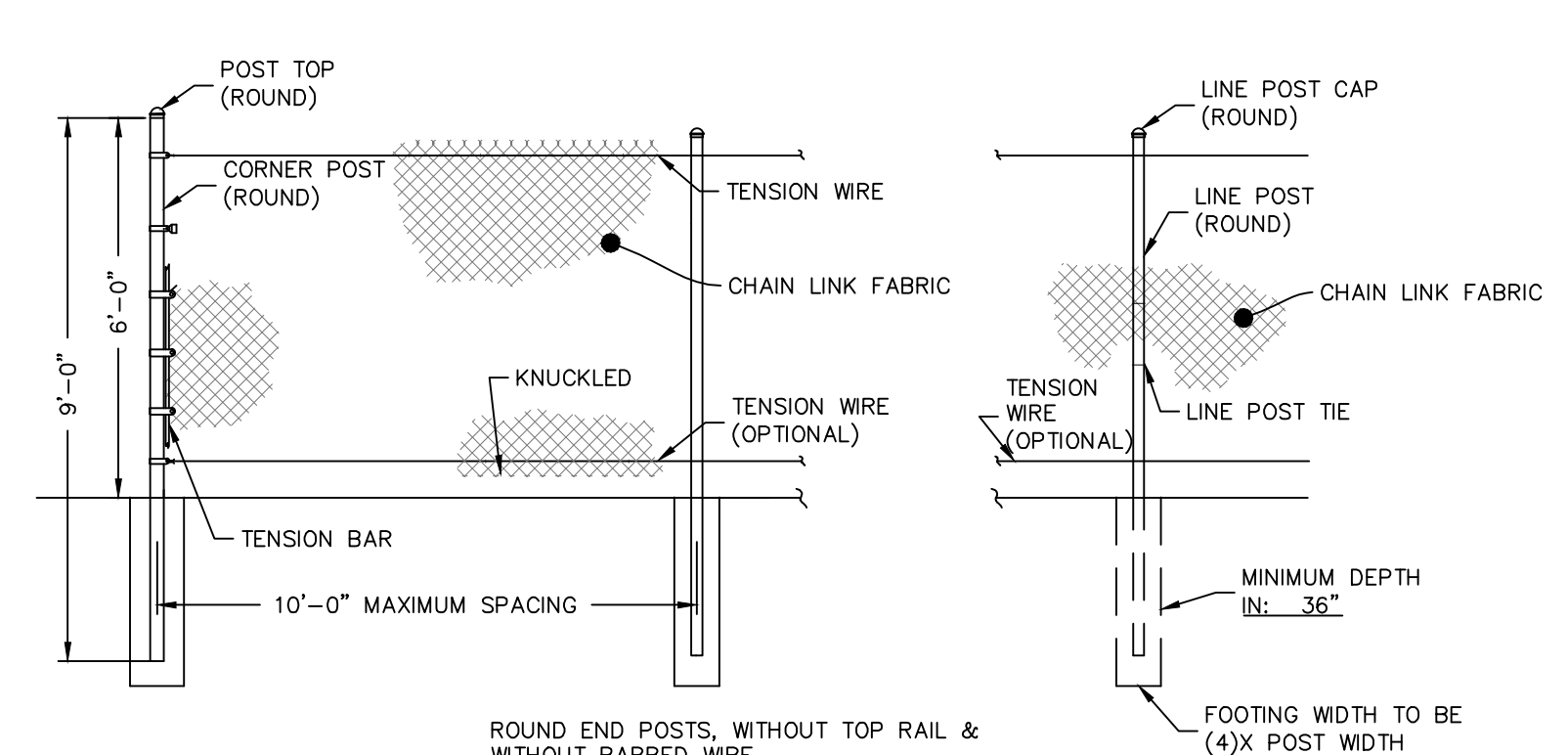
**NOTES:**

- PIT IS SPECIFICALLY DESIGNATED, DIKED AND IMPERVIOUS TO PREVENT CONTACT BETWEEN CONCRETE WASH AND STORMWATER.
- WASH WATER MUST NOT BE ALLOWED TO FLOW TO SURFACE WATER.
- FACILITY MUST HOLD SUFFICIENT VOLUME TO CONTAIN CONCRETE WASTE WITH A MINIMUM FREEBOARD OF 12."
- FACILITY MUST NOT BE FILLED BEYOND 95% CAPACITY UNLESS A NEW FACILITY IS CONSTRUCTED.
- SAWCUT PORTLAND CEMENT CONCRETE, RESIDUE FROM SAWCUT AND GRINDING MUST BE DISPOSED OF IN THE PIT.
- CONCRETE WASHOUTS MUST 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.

**WASHOUT SIGN**

**Concrete Washout Area**

(NOT TO SCALE)



**NOTE:** ENTIRE FENCE LINE TO HAVE 6-INCH GAP BETWEEN GROUND AND BOTTOM OF FENCE, FOR SMALL ANIMAL PASSAGE.

**Typical High Fence**

NOT TO SCALE

**GENERAL NOTES:**

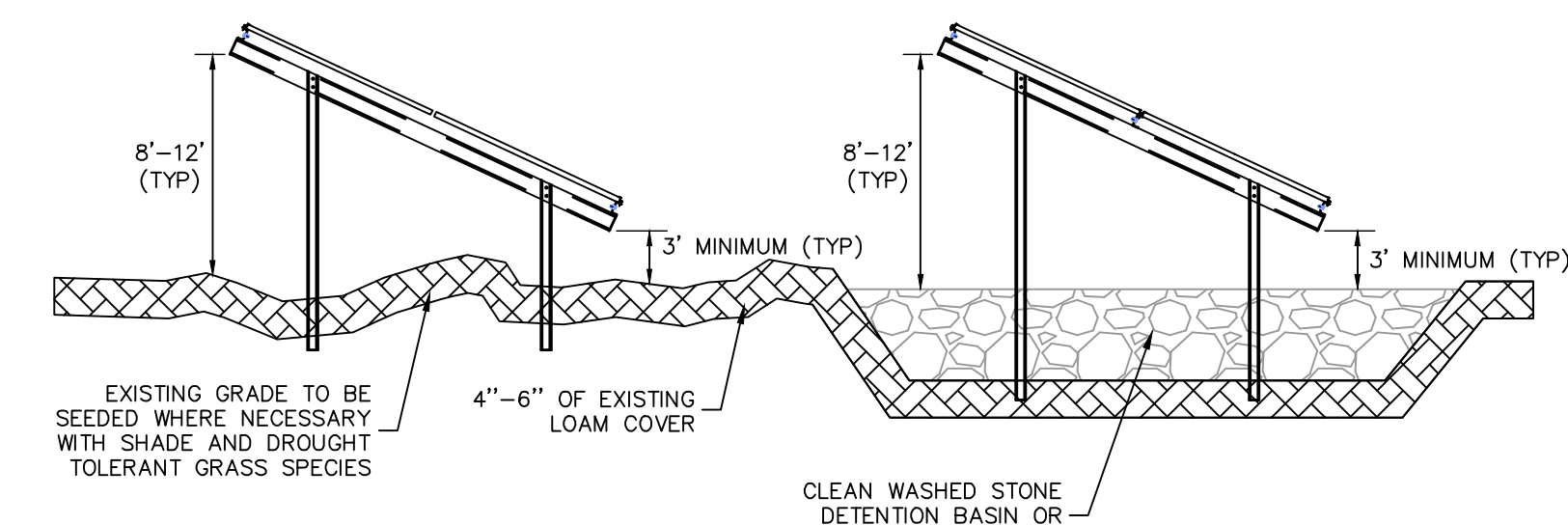
- THE TEMPORARY SEDIMENT TRAP MUST MEET ALL REQUIREMENTS FOR TEMPORARY SEDIMENT TRAPS OUTLINED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (LATEST REVISION) SECTION SIX: SEDIMENT CONTROL MEASURES
- THE TEMPORARY SEDIMENT TRAP MUST HAVE AN INITIAL STORAGE VOLUME OF 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA.
- ALL OUT AND FILL SLOPES MUST BE 2:1 OR FLATTER EXCEPT FOR THE EXCAVATED WET STORAGE AREA WHERE SLOPES MUST NOT EXCEED 1.5:1.
- THE OUTLET MUST BE LOCATED AT THE MOST DISTANT HYDRAULIC POINT FROM THE INLET.
- THE OUTLET MUST CONSIST OF A PERVIOUS STONE DIKE WITH A CORE OF MODIFIED RIPRAP AND FACED ON THE UPSTREAM SIDE WITH STONE.
- TEMPORARY SEDIMENT TRAPS MUST OUTLET ONTO STABILIZED GROUND.
- MAXIMUM HEIGHT OF A TEMPORARY SEDIMENT TRAP EMBANKMENT IS LIMITED TO 5 FEET.
- SIDE SLOPES OF THE EMBANKMENT MUST BE 2:1 OR FLATTER.
- MODIFIED RIPRAP: MUST MEET THE REQUIREMENTS OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUBSECTION M.10.03.2.
- FILTER STONE: MUST MEET THE REQUIREMENTS OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUBSECTION M.01.03 TABLE I, COLUMN V FILTER STONE.

**INSPECTION, MAINTENANCE, AND REMOVAL REQUIREMENTS:**

- INSTALL "SEDIMENT STORAGE" STAKE WITH A MARKER AT ONE HALF OF THE WET STORAGE VOLUME.
- INSPECT THE TEMPORARY SEDIMENT TRAP AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.25 INCH OR GREATER.
- CHECK THE OUTLET TO ENSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT.
- CHECK FOR SEDIMENT ACCUMULATION AND FILTRATION PERFORMANCE.
- WHEN SEDIMENTS HAVE ACCUMULATED TO ONE HALF THE MINIMUM REQUIRED VOLUME OF THE WET STORAGE, DEWATER THE TRAP AS NEEDED, REMOVE SEDIMENTS AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS.
- DISPOSE OF THE SEDIMENT REMOVED FROM THE BASIN IN A SUITABLE AREA.
- THE TEMPORARY SEDIMENT TRAP MAY BE REMOVED AFTER THE CONTRIBUTING DRAINAGE AREA IS STABILIZED.

**INSTALLATION NOTES:**

- CLEAR, GRUB AND STRIP ANY VEGETATION AND ROOT MAT FROM ANY PROPOSED EMBANKMENT AND OUTLET AREA.
- REMOVE STONES AND ROCKS WHOSE DIAMETER IS GREATER THAN THREE (3) INCHES AND OTHER DEBRIS.
- EXCAVATE WET STORAGE AND CONSTRUCT THE EMBANKMENT AND/OR OUTLET AS NEEDED TO ATTAIN THE NECESSARY STORAGE REQUIREMENTS.
- USE ONLY FILL MATERIAL FOR THE EMBANKMENT THAT IS FREE FROM EXCESSIVE ORGANICS, DEBRIS, LARGE ROCKS (OVER SIX (6) INCHES) OR OTHER UNSUITABLE MATERIALS. COMPACT THE EMBANKMENT IN 9-INCH LAYERS BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
- STABILIZE THE EARTHEN EMBANKMENT USING ANY OF THE FOLLOWING MEASURES: SEEDING FOR TEMPORARY VEGETATION COVER, SEEDING FOR PERMANENT VEGETATIVE COVER, OR SLOPE PROTECTION, IMMEDIATELY AFTER INSTALLATION.



**NOTE:**

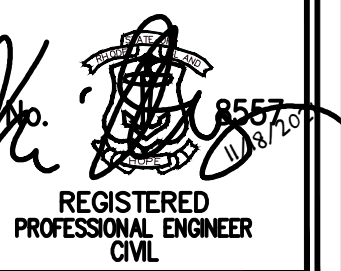
- TOPSOIL ON SITE MUST BE PRESERVED. TOPSOIL MUST NOT BE EXPORTED FROM THE SITE.

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

NOT TO SCALE

**Temporary Sediment Trap Notes**

KEVIN DEMERS



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	Drawn By: SEK	Design By: SEK
1	11/18/2023	Final Plan Submission	SEK	SEK
2	2/17/2024	RFI/MA/Permit Modification	SEK	SEK
3	12/18/2023	City Planning Comments	SEK	SEK
4		Final Plan Submission	SEK	SEK

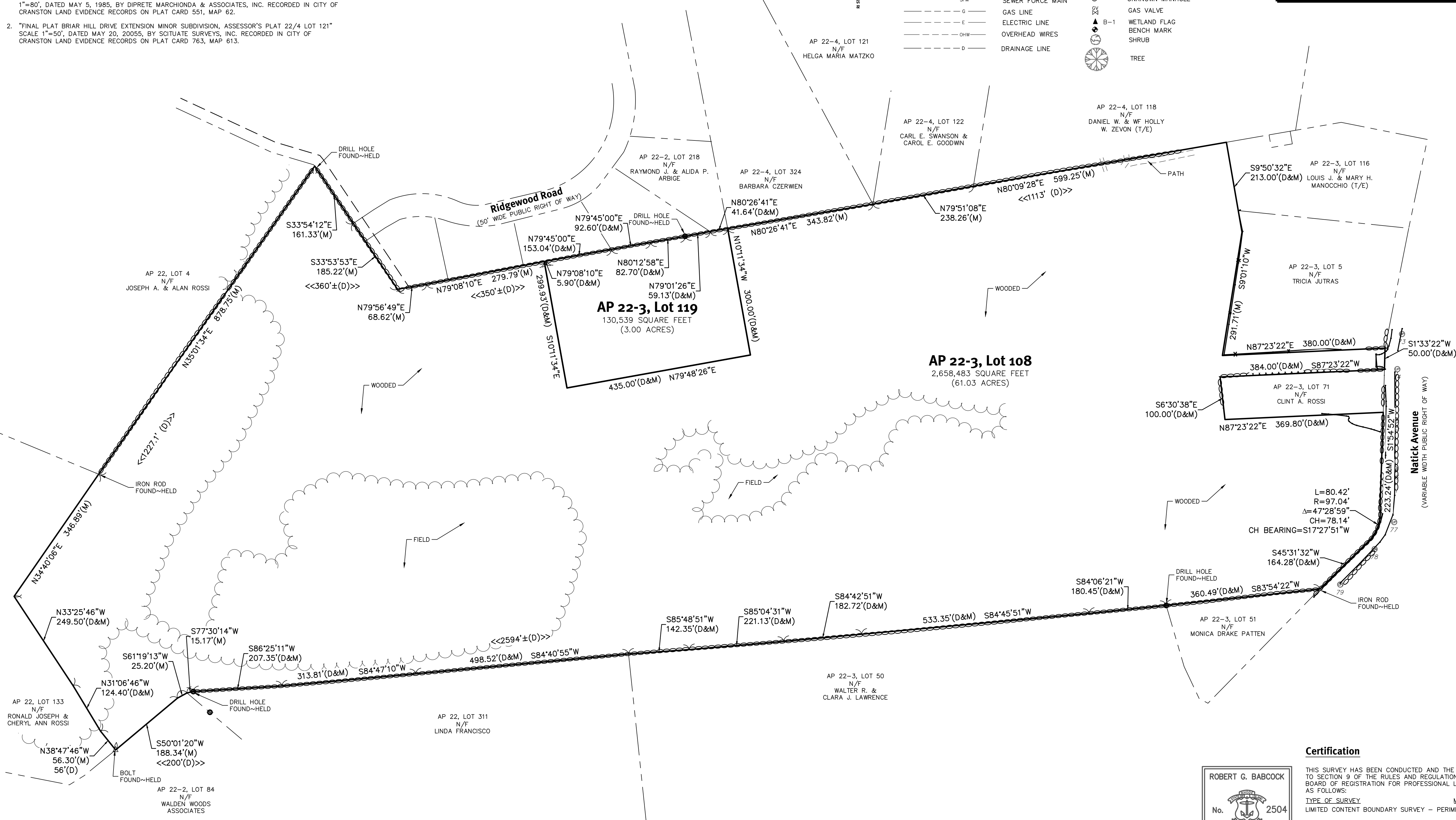


**General Notes**

1. THE PARCEL IS FOUND ON ASSESSOR'S PLAT 22, LOT 108 & 119 IN THE CITY OF CRANSTON, PROVIDENCE COUNTY, RHODE ISLAND.
2. THE OWNER PER DEED BOOK 853, PAGE 793 IS RONALD ROSSI.
3. BASED ON GRAPHICAL PLOTTING ONLY, THE PARCEL IS LOCATED IN X PER FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP 44007C0407G, DATED MARCH 2, 2009 & MAP 44003C0126H, DATED OCTOBER 2, 2015. THIS DESIGNATION MAY CHANGE BASED UPON REVIEW BY A FLOOD ZONE SPECIALIST OR BY THE RESULTS OF A COMPREHENSIVE FLOOD STUDY.
4. THE PARCEL IS ZONED A80 BASED ON VISION GOVERNMENT SOLUTIONS CRANSTON. ANY OVERLAY DISTRICTS, SPECIAL PERMITS OR VARIANCES SPECIFIC TO THIS SITE ARE NOT TAKEN INTO CONSIDERATION. PLEASE CONTACT THE ZONING DEPARTMENT FOR ANY ADDITIONAL INFORMATION OR FOR A CERTIFICATE OF ZONING.
5. THERE WERE NO CEMETERIES, GRAVE SITES AND OR BURIAL GROUNDS OBSERVED WITHIN THE LIMITS OF THE SURVEY.
6. FIELD SURVEY PERFORMED BY DIPRETE ENGINEERING ON OCTOBER 4, 2018. THIS PLAN REFLECTS ON THE GROUND CONDITIONS AS OF THAT DATE.
7. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT. DIPRETE ENGINEERING IS NOT RESPONSIBLE FOR ANY UNKNOWN OR UNRECORDED EASEMENTS, DEEDS OR CLAIMS THAT A TITLE REPORT WOULD DISCLOSE.

**Plan References:**

1. "SUBDIVISION PLAN OF BRIAR HILL PHASE III, SITUATED IN CRANSTON, RHODE ISLAND" SCALE 1"=80', DATED MAY 5, 1985, BY DIPRETE MARCHIONDA & ASSOCIATES, INC. RECORDED IN CITY OF CRANSTON LAND EVIDENCE RECORDS ON PLAT CARD 551, MAP 62.
2. "FINAL PLAT BRIAR HILL DRIVE EXTENSION MINOR SUBDIVISION, ASSESSOR'S PLAT 22/4 LOT 121" SCALE 1"=50', DATED MAY 20, 2005, BY SCITUATE SURVEYS, INC. RECORDED IN CITY OF CRANSTON LAND EVIDENCE RECORDS ON PLAT CARD 763, MAP 613.

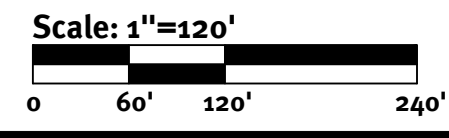


**Certification**

ROBERT G. BABCOCK  
No. 2504  
PROFESSIONAL LAND SURVEYOR

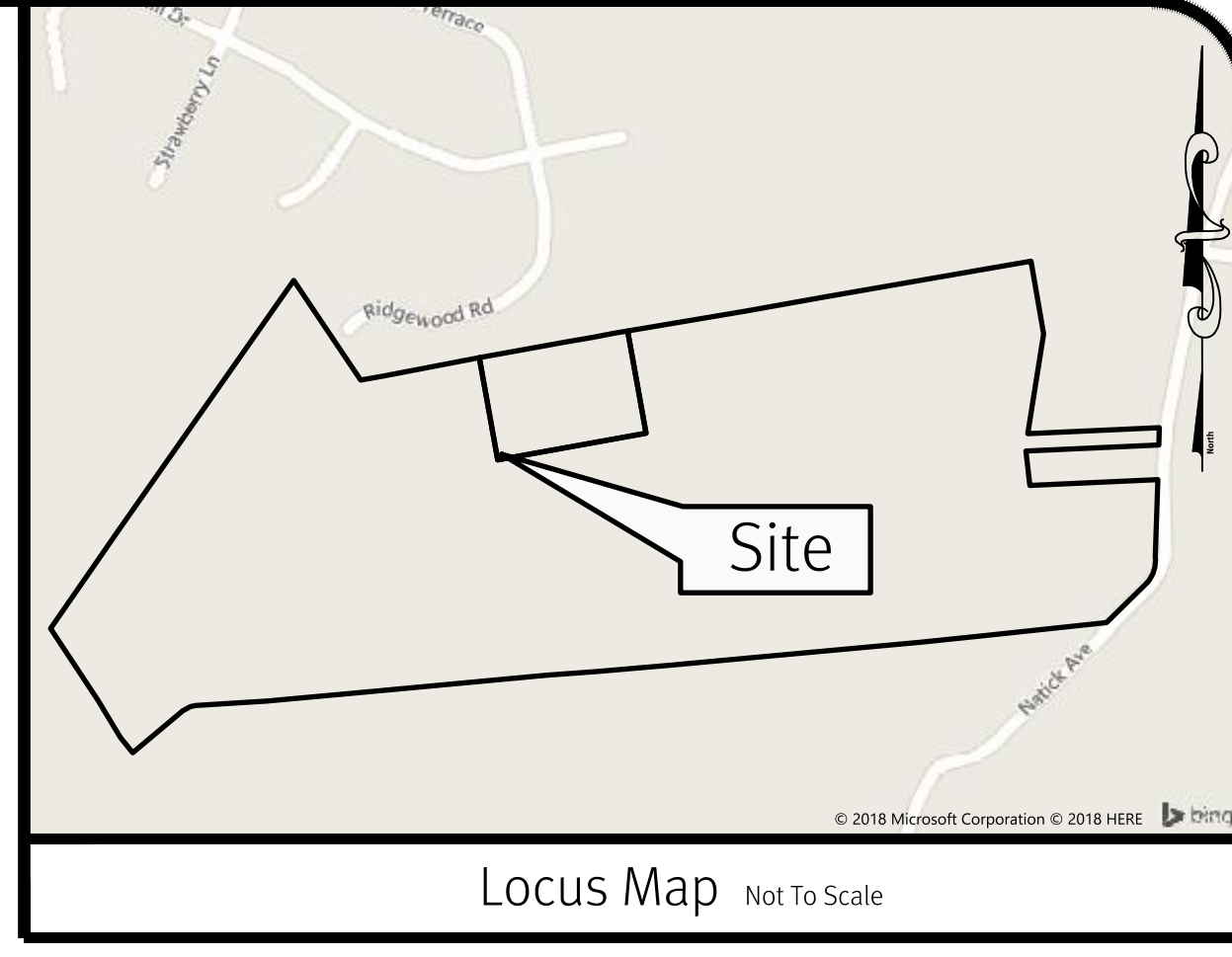
THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON JANUARY 1, 2016, AS FOLLOWS:  
TYPE OF SURVEY: LIMITED CONTENT BOUNDARY SURVEY - PERIMETER CLASS I  
MEASUREMENT SPECIFICATION:  
THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:  
PERIMETER RETRACEMENT PERFORMED BY DIPRETE ENGINEERING FOR THE PURPOSE OF SITE ENGINEERING AND PERMITTING.

*Robert G. Babcock*  
ROBERT G. BABCOCK, RIPLS #2504, COA #S.000A160  
11/9/2018



**Legend**

- NOT ALL ITEMS SHOWN WILL APPEAR ON THE SURVEY
- |  |                    |  |                           |
|--|--------------------|--|---------------------------|
|  | BUILDING           |  | NAIL FOUND/SET            |
|  | ASSESSOR'S PLAT    |  | DRILL HOLE FOUND/SET      |
|  | NOW OR FORMERLY    |  | IRON ROD/PIPE FOUND/SET   |
|  | DEED               |  | BOUND FOUND/SET           |
|  | MEASURED           |  | SIGN                      |
|  | CHORD ANGLE        |  | BOLLARD                   |
|  | HANDICAPPED        |  | SOIL EVALUATION           |
|  | PROPERTY LINE      |  | CATCH BASIN               |
|  | ASSESSOR'S LINE    |  | DOUBLE CATCH BASIN        |
|  | TREELINE           |  | DRAINAGE MANHOLE          |
|  | GUARDRAIL          |  | FLARED END SECTION        |
|  | FENCE              |  | GUY POLE                  |
|  | RETAINING WALL     |  | ELECTRIC MANHOLE/HANDHOLE |
|  | STONE WALL         |  | UTILITY/POWER POLE        |
|  | MINOR CONTOUR LINE |  | LIGHTPOST                 |
|  | MAJOR CONTOUR LINE |  | SEWER/SEPTIC MANHOLE      |
|  | WATER LINE         |  | SEWER VALVE               |
|  | SEWER LINE         |  | CLEANOUT                  |
|  | SEWER FORCE MAIN   |  | HYDRANT                   |
|  | GAS LINE           |  | IRRIGATION VALVE          |
|  | ELECTRIC LINE      |  | WATER VALVE               |
|  | OVERHEAD WIRES     |  | WELL                      |
|  | DRAINAGE LINE      |  | MONITORING WELL           |
|  |                    |  | UNKNOWN MANHOLE           |
|  |                    |  | GAS VALVE                 |
|  |                    |  | WETLAND FLAG              |
|  |                    |  | BENCHMARK                 |
|  |                    |  | SHRUB                     |
|  |                    |  | TREE                      |



**Diprete Engineering**  
Two Stafford Court, Cranston, RI 02920  
Tel: 401-943-1000 Fax: 401-664-6006 www.diprete-eng.com

**Boston • Providence • Newport**

No.	Date	Boundary Survey Description	E.L.T.	By:
10/11/2018	10/11/2018	Boundary Survey		

Drawn By: E.L.T.

**Boundary Survey**  
**Natick Avenue Solar**  
Cranston, Rhode Island

**Southern Sky Renewable Energy RI, LLC**  
Client  
117 Metro Center Blvd #2007, Warwick, Rhode Island 02886  
Tel: 781-371-2001

DE JOB No: 2437-015 Copyright: 2018 by Diprete Engineering Associates, Inc.



# LANDSCAPE PLANS

## NATICK AVENUE SOLAR

LOCATED AT:

Natick Avenue  
Assessor's Plat 22-3, Lots 108 & 119  
Cranston, Rhode Island

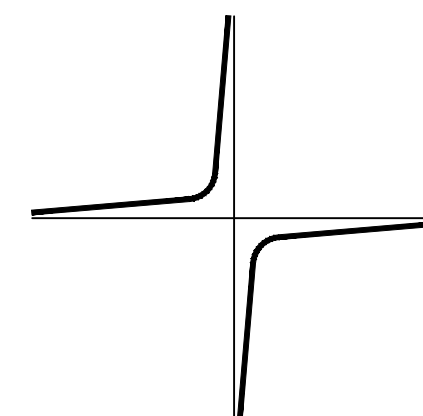
PREPARED FOR THE:

**REVITY ENERGY, LLC**  
117 Metro Center Blvd.  
Warwick, Rhode Island

### SHEET INDEX

NUMBER	TITLE	ISSUED FOR PERMITTING			REVISIONS					
	COVER SHEET									
1	BUFFER PLAN	05-08-2020	07-22-2020	10-07-2020	10-22-2020	11-30-2020	01-14-2021			11-09-2021
2	CROSS SECTIONS 1, 2, & 3	05-08-2020	07-22-2020	10-07-2020	10-22-2020	11-30-2020				
3	CROSS SECTIONS 4, 5, & 6	05-08-2020	07-22-2020	10-07-2020	10-22-2020					
4	CROSS SECTIONS 7, 8 & 9	05-08-2020	07-22-2020	10-07-2020	10-22-2020					
5	CROSS SECTIONS 10, 11, 12	05-08-2020	07-22-2020	10-07-2020	10-22-2020					
6	CROSS SECTIONS 13 & 14			10-07-2020	10-22-2020	11-30-2020	01-14-2021	01-15-2021		11-09-2021

PREPARED BY:



**JOHN C. CARTER & CO., INC.**

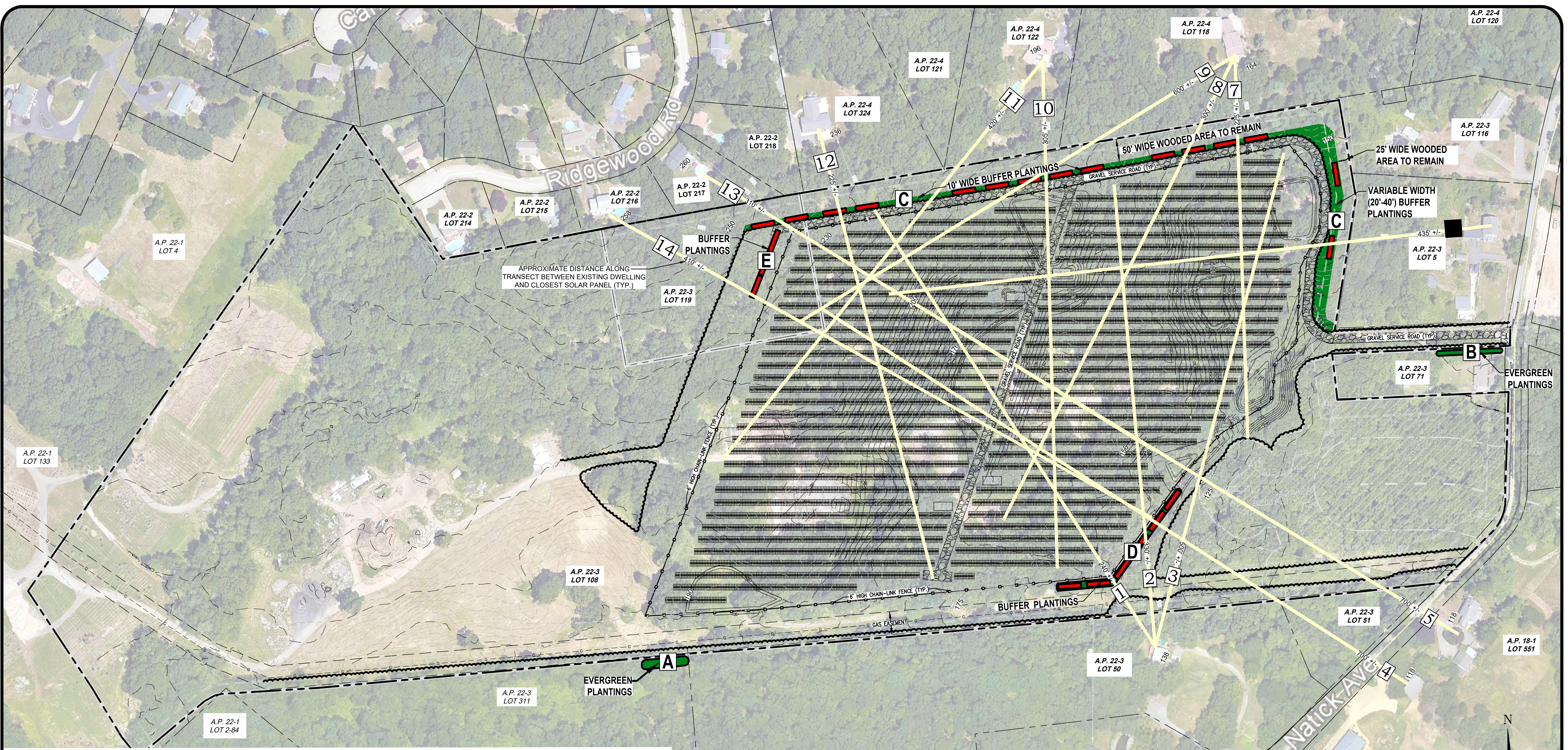
960 BOSTON NECK RD., NARRAGANSETT, RI  
(401) 783 - 3500

LANDSCAPE ARCHITECTURE  
DESIGN & BUILD

ENGINEER

DiPrete Engineering  
2 Stafford Court  
Cranston, Rhode Island  
401-943-1000





**NOTES:**

**GENERAL:**

1. THE EXISTING SITE INFORMATION WAS TAKEN FROM A PLAN PREPARED BY DIPRETE ENGINEERING, TITLED 'SITE LAYOUT PLAN', DATED 6-15-2018, AND '2437-015-PRLM-DATA-OLAR-20200921', DATED 9-21-2020 AND FROM SITE OBSERVATIONS PERFORMED BY JOHN C. CARTER & CO.
2. ANY PROPERTY LINES DEPICTED ON THIS PLAN ARE PICTORIAL ONLY. THIS PLAN IS TO BE USED FOR THE SELECTION, LOCATION AND INSTALLATION OF LANDSCAPE MATERIALS ONLY AND IS NOT TO BE USED FOR ANY OTHER PURPOSE. ALL FOUNDATIONS, RETAINING WALLS AND DRAINAGE COMPONENTS SHALL BE STAKED OUT BY THE ENGINEER OR SURVEYOR.
3. WRITTEN DIMENSIONS AND SPECIFICATIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS.
4. THE LOCATION OF UTILITIES IF SHOWN ON THIS PLAN ARE APPROXIMATE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES BEFORE ANY EXCAVATION. DIG-SAFE SHALL BE CONTACTED AT LEAST 72 HOURS BEFORE EXCAVATION. DIG-SAFE CAN BE REACHED AT 1-888-344-7233.

NOTE: PLANT AREAS 'A' AND 'B' ARE NOT PART OF THE NATICK AVENUE SOLAR PROJECT UNDER REVIEW BY THE CITY OF CRANSTON. THESE PLANTING AREAS HAVE BEEN INCLUDED FOR ILLUSTRATIVE PURPOSES ONLY AND WILL BE DETERMINED BY PRIVATE AGREEMENTS WITH THE RESPECTIVE PROPERTY OWNERS.

**PROJECT NARRATIVE:**

**PROGRAM:**

THE GOAL OF THIS PLANTING PLAN IS TO PROVIDE A VISUAL BUFFER FROM THE ADJUTING RESIDENTIAL HOMES TO THE PROPOSED SOLAR FARM.

**ASSESSMENT:**

IN ORDER TO DETERMINE THE LOCATION AND HEIGHT OF AN EFFECTIVE VISUAL BUFFER, TRANSECTS WERE DEVELOPED DEMONSTRATING SIGHT LINES FROM THE ADJACENT HOMES ONTO THE PROPOSED SOLAR FARM.

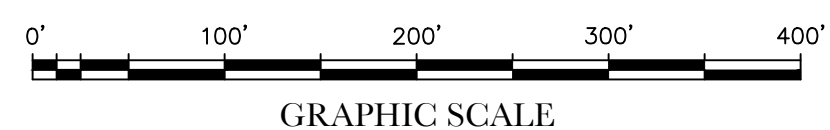
A SIGHT LINE WAS DRAWN FROM AN EYE LEVEL AT EACH RESIDENTIAL PROPERTY TO THE LOCATION OF THE HIGHEST AND LOWEST VISIBLE SOLAR PANEL ALLOWING THE HEIGHT AND LOCATION OF THE BUFFER TO BE DETERMINED.

**PROCESS:**

AS A RESULT OF ONSITE ANALYSIS AND INVENTORY OF THE EXISTING VEGETATION, IT WAS DETERMINED THAT IN ADDITION TO THE NO CUT BUFFER ADJACENT TO THE NORTHERLY AND EASTERLY PROPERTY LINES, AN ADDITIONAL CLEARED AREA WILL BE PLANTED WITH A MIXTURE OF DECIDUOUS AND EVERGREEN TREES AND SHRUBS.

**CONCLUSION:**

A COMBINATION OF EXISTING VEGETATION (WHICH IS PROPOSED TO REMAIN) AND SUPPLEMENTAL PLANTINGS (AS DEMONSTRATED ON THE CROSS SECTIONS AND DETAILS) WILL PROVIDE A SIGNIFICANT VISUAL BUFFER BETWEEN THE ADJACENT HOMES AND THE SOLAR FARM.



**LEGEND**

- PROPERTY LINE
- CONTOURS EXISTING
- CONTOURS PROPOSED
- CHAIN-LINK FENCE PROPOSED
- SOLAR PANELS PROPOSED
- PROPOSED TREE LINE
- TRANSECT
- CLEARED AREA WITH 50'X10' PLANTING PATTERN
- SUPPLEMENTAL BUFFER PLANTINGS

REGISTERED LANDSCAPE ARCHITECT  
 JOHN C. CARTER & COMPANY, INC.  
 NO. 206  
 STATE OF RHODE ISLAND

NO.	DATE	DESCRIPTION	BY
04-11-09-21		PER PRELIMINARY APPROVAL	L.M.W.
04-10-13-21		PLANTING AREAS 'D' & 'E'	L.M.W.
04-11-30-20		PLANTING AREAS 'D' & 'E' GRADING	L.M.W.
04-11-30-20		PLANTING PATTERNS ADDED	L.M.W.
07-10-07-20		BUFFER & TRANSECTS ADDED	L.M.W.
01-17-22-20		GRADING	L.M.W.

**BUFFER PLAN**  
**NATICK AVENUE SOLAR**  
 ASSESSOR'S PLAT 22-3 LOTS 108 & 119  
 CRANSTON, RHODE ISLAND

PREPARED BY  
**JOHN C. CARTER & COMPANY, INC.**  
**LANDSCAPE ARCHITECTURE**  
 960 Boston Neck Road  
 Narragansett, RI 02882  
 (401)783-3500 Fax: (401) 792-1327

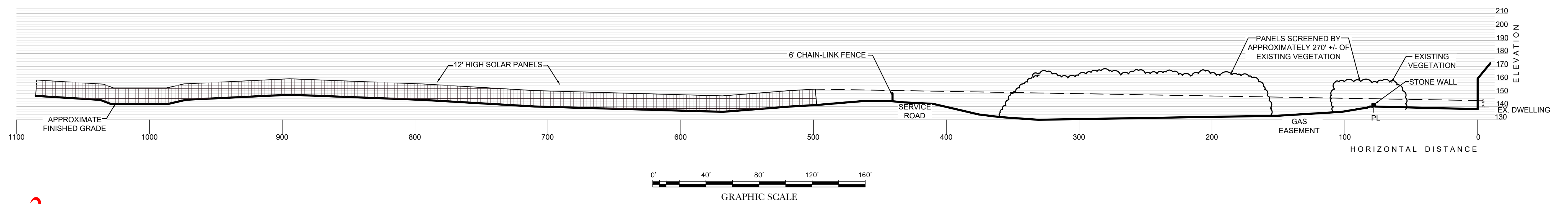
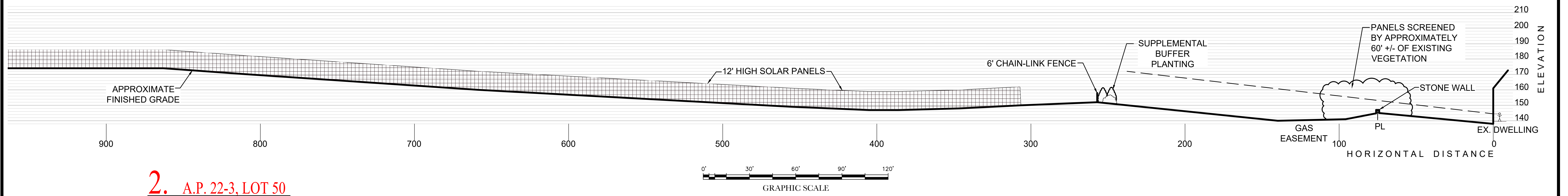
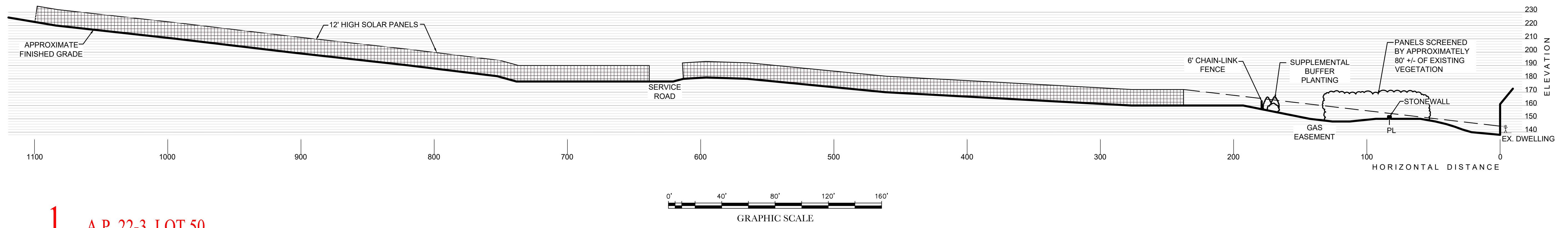
PREPARED FOR  
**REVITY ENERGY, LLC.**  
 117 Metro Center Blvd.  
 Warwick, RI

MAY 8, 2020  
 DWN. BY: L.M.W.

SHEET **1** OF 6

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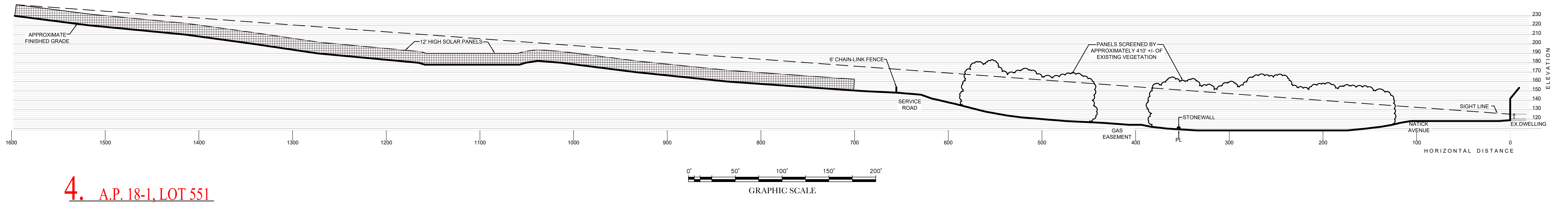




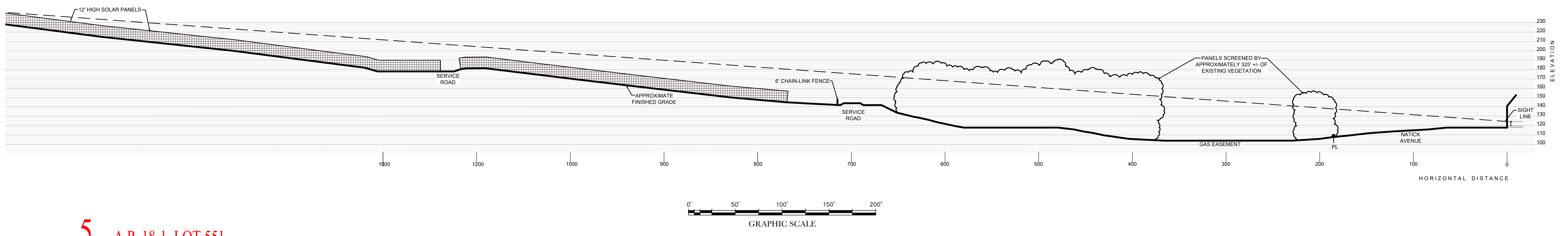
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		<b>CROSS SECTIONS 1</b> <b>NATICK AVENUE SOLAR</b> ASSESSOR'S PLAT 22-3 LOTS 108 & 119 CRANSTON, RHODE ISLAND	
		PREPARED BY <b>JOHN C. CARTER &amp; COMPANY, INC.</b> <b>LANDSCAPE ARCHITECTURE</b> 960 Boston Neck Road Narragansett, RI 02882 (401)783-3500 Fax: (401) 792-1327	
PREPARED FOR <b>REVITY ENERGY, LLC.</b> 117 Metro Center Blvd. Warwick, RI		SHEET <b>2</b> OF 6	
NO.	DATE	DESCRIPTION	BY
04-11-20-20		TRANSSECTS UPDATED	L.M.W.
03-10-20-20		TRANSSECTS UPDATED	L.M.W.
02-10-07-20		TRANSSECTS UPDATED	L.M.W.
01-17-22-20		GRADING	L.M.W.
MAY 8, 2020		DWN. BY: L.M.W.	

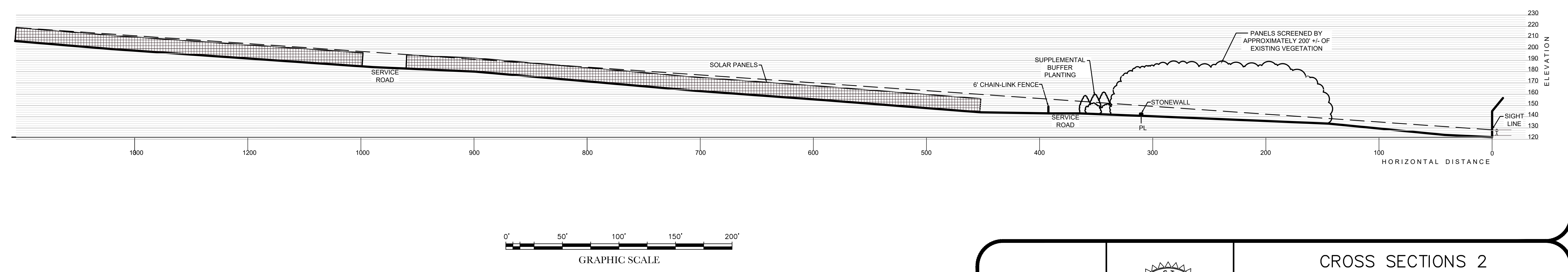




4. A.P. 18-1, LOT 551



5. A.P. 18-1, LOT 551



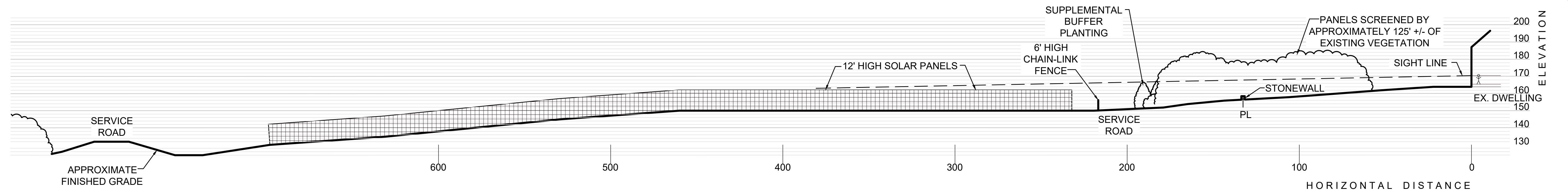
6. A.P. 22-3, LOT 5

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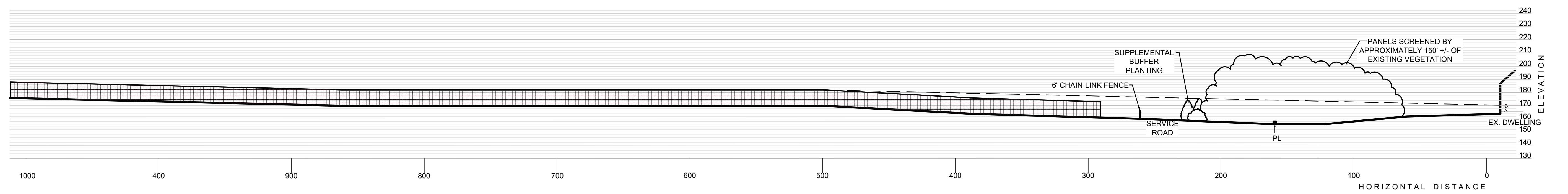
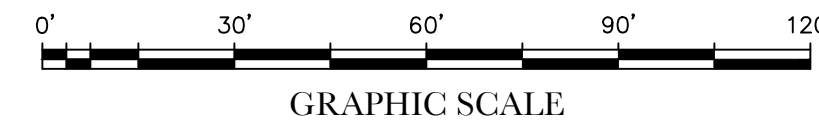
		<b>CROSS SECTIONS 2</b> <b>NATICK AVENUE SOLAR</b> ASSESSOR'S PLAT 22-3 LOTS 108 & 119 CRANSTON, RHODE ISLAND	
		PREPARED BY <b>JOHN C. CARTER &amp; COMPANY, INC.</b> <b>LANDSCAPE ARCHITECTURE</b> 960 Boston Neck Road Narragansett, RI 02882 (401)783-3500 Fax: (401) 792-1327	
PREPARED FOR <b>REVITY ENERGY, LLC.</b> 117 Metro Center Blvd. Warwick, RI		MAY 8, 2020 DWN. BY: L.M.W.	
SHEET <b>3</b> OF 6			

NO.	DATE	DESCRIPTION	BY
0310-22-20		TRANSECTS UPDATED	L.M.W.
0210-07-20		TRANSECT ADDED	L.M.W.
0117-22-20		GRADING	L.M.W.

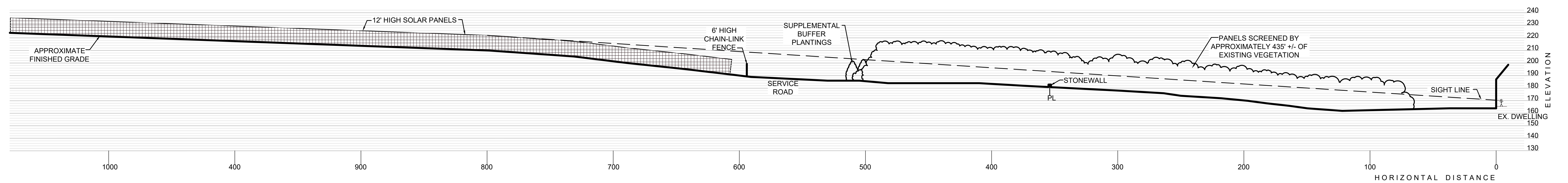
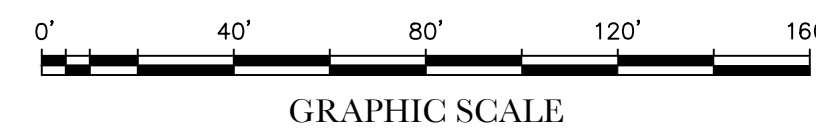




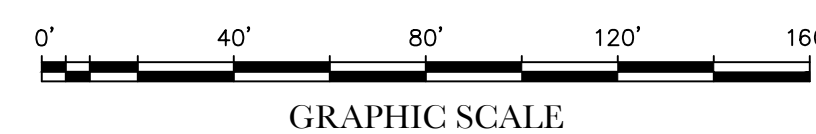
7. A.P. 22-4, LOT 118



8. A.P. 22-4, LOT 118



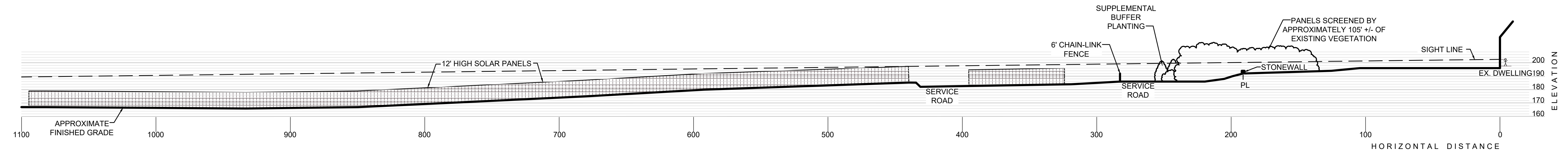
9. A.P. 22-4, LOT 118



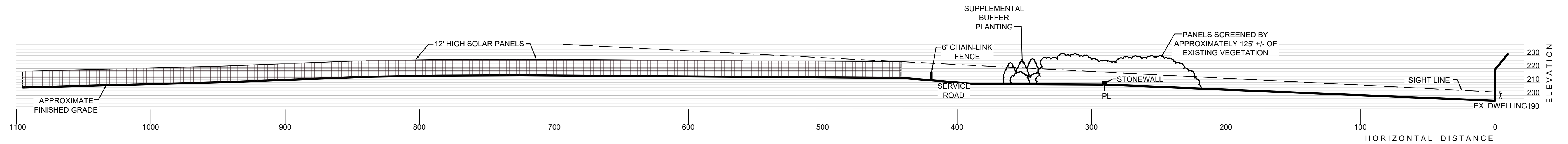
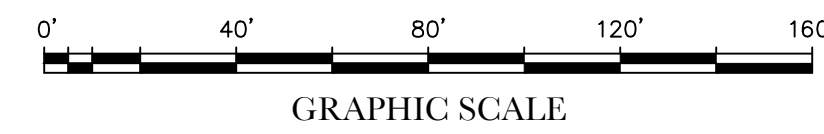
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		<b>CROSS SECTIONS 2</b> <b>NATICK AVENUE SOLAR</b> ASSESSOR'S PLAT 22-3 LOTS 108 & 119 CRANSTON, RHODE ISLAND																	
		PREPARED BY <b>JOHN C. CARTER &amp; COMPANY, INC.</b> <b>LANDSCAPE ARCHITECTURE</b> 960 Boston Neck Road Narragansett, RI 02882 (401)783-3500 Fax: (401) 792-1327																	
<table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>0310-22-20</td> <td></td> <td>TRANSECTS UPDATED</td> <td>LMW</td> </tr> <tr> <td>0210-07-20</td> <td></td> <td>TRANSECTS ADDED &amp; UPDATED</td> <td>LMW</td> </tr> <tr> <td>0117-22-20</td> <td></td> <td>GRADING</td> <td>LMW</td> </tr> </tbody> </table>		NO.	DATE	DESCRIPTION	BY	0310-22-20		TRANSECTS UPDATED	LMW	0210-07-20		TRANSECTS ADDED & UPDATED	LMW	0117-22-20		GRADING	LMW	PREPARED FOR <b>REVITY ENERGY, LLC.</b> 117 Metro Center Blvd. Warwick, RI	
		NO.	DATE	DESCRIPTION	BY														
0310-22-20		TRANSECTS UPDATED	LMW																
0210-07-20		TRANSECTS ADDED & UPDATED	LMW																
0117-22-20		GRADING	LMW																
		MAY 8, 2020 DWN. BY: L.M.W.	SHEET <b>4</b> OF 6																

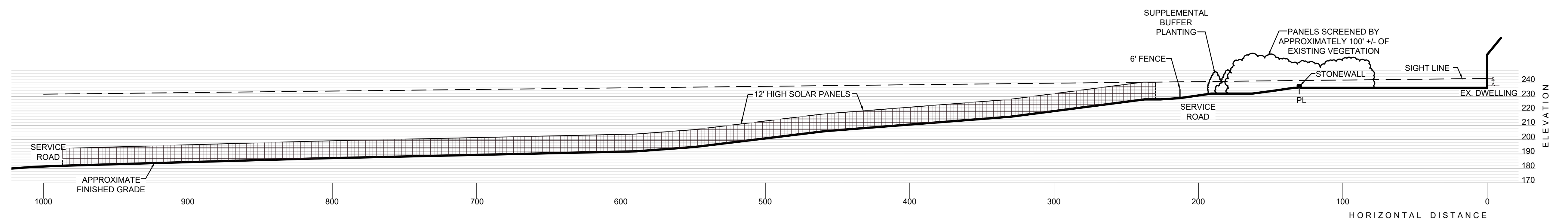
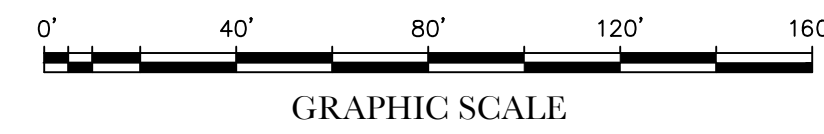




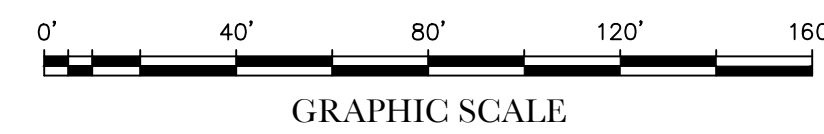
10. A.P. 22-4, LOT 122



11. A.P. 22-4, LOT 122



12. A.P. 22-4, LOT 324



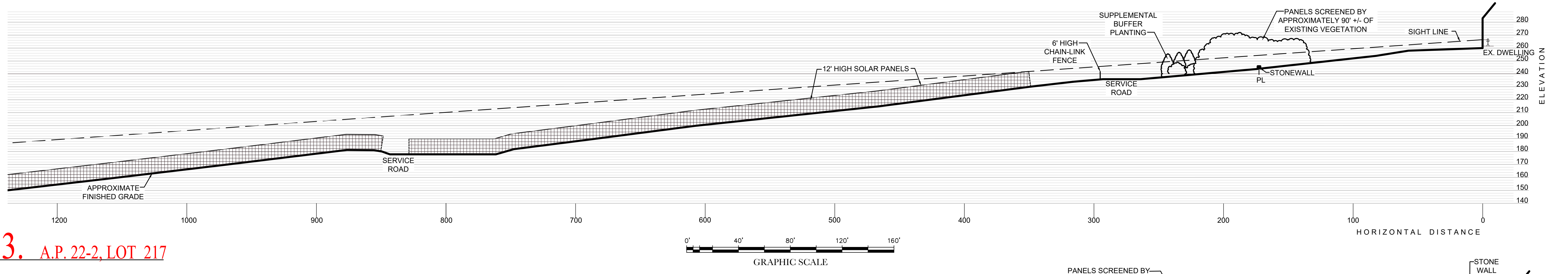
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		<b>CROSS SECTIONS 3</b> <b>NATICK AVENUE SOLAR</b> <small>ASSESSOR'S PLAT 22-3 LOTS 108 &amp; 119          CRANSTON, RHODE ISLAND</small>	
		<small>PREPARED BY</small> <b>JOHN C. CARTER &amp; COMPANY, INC.</b> <b>LANDSCAPE ARCHITECTURE</b> <small>960 Boston Neck Road          Narragansett, RI 02882          (401)783-3500 Fax: (401) 792-1327</small>	
<small>PREPARED FOR</small> <b>REVITY ENERGY, LLC.</b> <small>117 Metro Center Blvd.          Warwick, RI</small>		<small>MAY 8, 2020</small> <small>DWN. BY: L.M.W.</small>	
<small>SHEET 5 OF 6</small>			

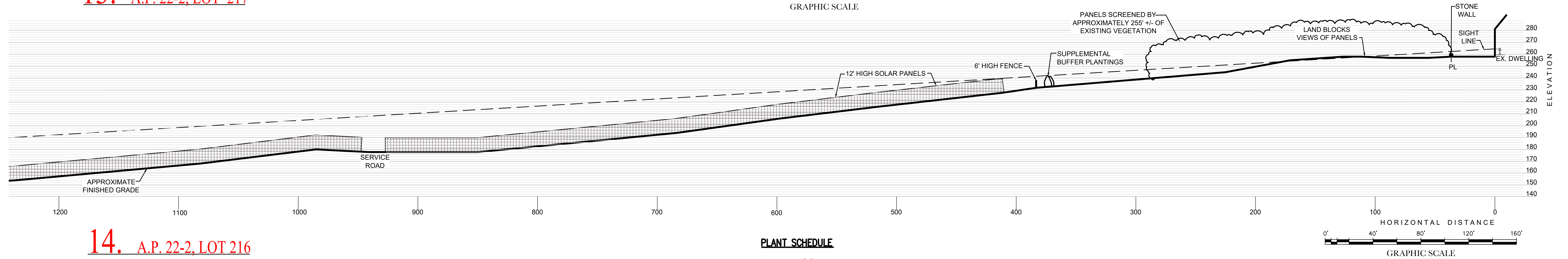
NO.	DATE	DESCRIPTION	BY
0310-22-20		TRANSFECTS UPDATED	LMW
0210-07-20		TRANSFECTS UPDATED	LMW
0117-22-20		GRADING	LMW



13. A.P. 22-2, LOT 217



14. A.P. 22-2, LOT 216



PLANT SCHEDULE

AREA 'A'

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
PS	10	PINUS STROBUS	EASTERN WHITE PINE	5-8' HT.	10' O.C.

AREA 'B'

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
PS	10	PINUS STROBUS	EASTERN WHITE PINE	5-8' HT.	10' O.C.
TP	4	THUJA PLICATA 'GREEN GIANT'	GREEN GIANT ARBORVITAE	5-8'	10' O.C.

AREAS 'C', 'D' & 'E'

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
AC1	35	AMELANCHIER CANADENSIS OR BETULA POPULIFOLIA	SHADBLOW SERVICEBERRY OR GRAY BIRCH	5-6' HT.	CLUMP
AC2	50	AMELANCHIER CANADENSIS OR BETULA POPULIFOLIA	SHADBLOW SERVICEBERRY OR GRAY BIRCH	8-10' HT.	CLUMP
IO	20	ILEX OPACA	AMERICAN HOLLY	4-5' HT.	
JV	95	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	7-8' HT.	
PS1	30	PINUS STROBUS	EASTERN WHITE PINE	4-5' HT.	
PS2	30	PINUS STROBUS	EASTERN WHITE PINE	7-8' HT.	

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE
200 TOTAL				
+		VACCINIUM CORYMBOSUM	HIGH BUSH BLUEBERRY	2 1/2-3'
+		VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	2 1/2-3'
+		MORELLA PENNSYLVANICA	BAYBERRY	2 1/2-3'
+		CORNUS RACEMOSA	GRAY DOGWOOD	2 1/2-3'

GRASS SEED MIXES  
OR APPROVED EQUAL - AVAILABLE AT: ALLEN'S SEED,  
693 SOUTH COUNTY TRAIL (RT. 2), EXETER, RI 02822.

ENERGYSCAPE SOLAR LOW/SOW GROWING MIX  
FOR THE AREA BENEATH THE SOLAR PANELS - RATE 7-8 LBS/M/SQ

PERCENT	INGREDIENT
25%	CHEWINGS FESCUE
25%	SHEEP FESCUE
12.25%	HARD FESCUE
12.25%	STRONG CREEPING RED FESCUE
12.25%	CREEPING RED FESCUE
12.25%	HARD FESCUE

SOLAR SURROUNDINGS MIX  
FOR ALL OTHER DISTURBED AREAS OTHER THAN BENEATH THE SOLAR PANELS. - RATE 30-40 LBS/ACER

PERCENT	INGREDIENT
20%	VIKING H2O HARD FESCUE
20%	SHEEP FESCUE
15%	ANNUAL RYE
15%	VIRGINIA WILD RYE
15%	LITTLE BLUE STEM
5%	INDIAN GRASS
3.5%	PARTRIDGE PEA
1.75%	BLACK EYED SUSAN
1.5%	LANCELEAF COREOPSIS
1%	OXEYE SUNFLOWER
1%	PURPLE CONE FLOWER
.25%	BUTTERFLY MILKWEED
.25%	NEW ENGLAND ASTER
.25%	PURPLE JOE PYE WEED
.25%	WILD BERGAMOT
.25%	BONESET

DETENTION PONDS AND STEEP SLOPES WILL BE SEEDED AS SPECIFIED IN THE DEM APPROVED PLAN PREPARED BY DIPRETE ENGINEERING.

- BUFFER ASSESSMENT & SUPPLEMENTARY BUFFER PLANTING**
- THE PROPOSED LIMIT OF CLEARING WILL BE DELINEATED IN THE FIELD PRIOR TO ANY LOT CLEARING.
  - LARGE TREES ON THE SOUTH PROPERTY LINE THAT CAST SHADE ON THE SOLAR ARRAY SHALL BE SELECTIVELY REMOVED.

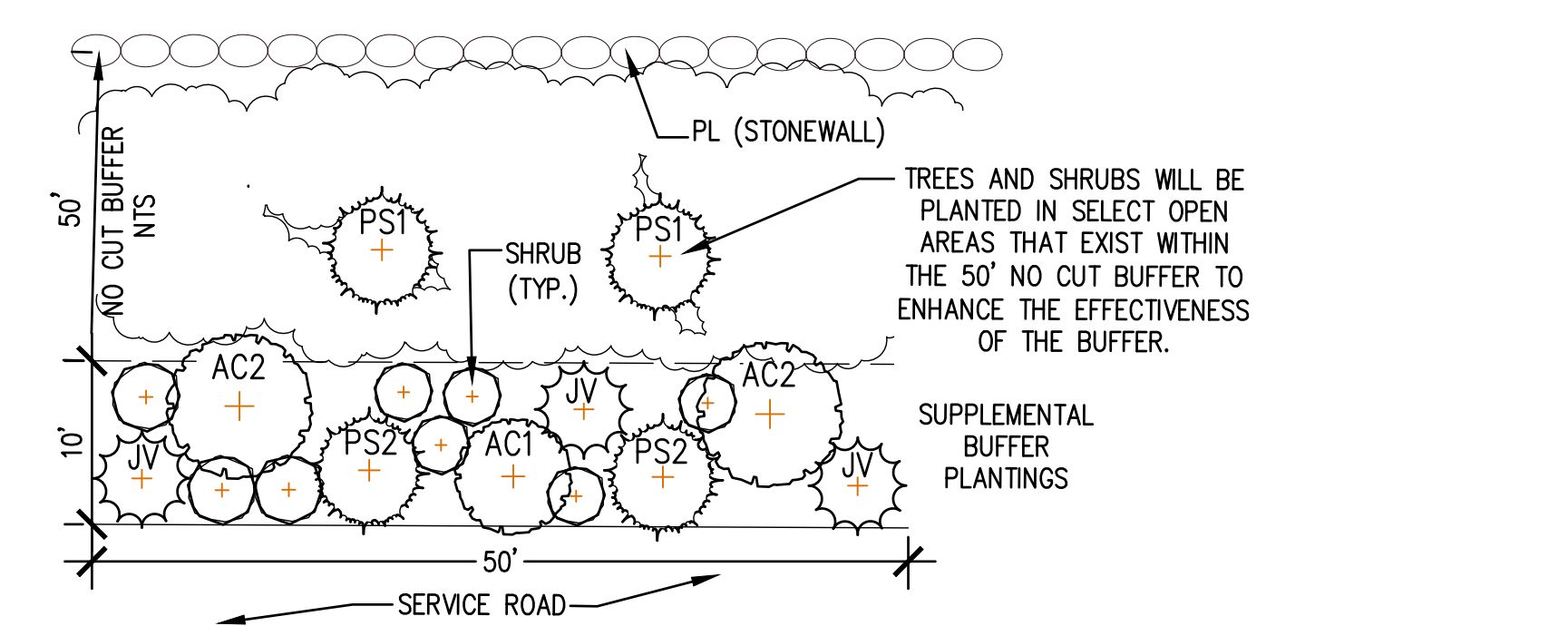
- PLANTING SEQUENCE**
- CARE SHALL BE TAKEN TO NOT DAMAGE THE EXISTING BUFFER VEGETATION WHILE INSTALLING ADDITIONAL PLANTS.
  - IF POSSIBLE, EXCAVATION SHALL BE AVOIDED WITHIN THE DRIP-LINE OF THE EXISTING TREES.

- PLANTING:**
- PROVIDE QUALITY PLANTS IN THE GENUS, SPECIES AND VARIETY INDICATED IN THE PLANT SCHEDULE, COMPLYING WITH APPLICABLE REQUIREMENTS OF "ANSI Z60.1 AMERICAN STANDARD FOR NURSERY STOCK."
  - PROVIDE PLANTS IN THE SIZE AND NUMBER INDICATED IN THE PLANT SCHEDULE.
  - DELIVER FRESH DUG TREES WHICH ARE BALLED AND BURLAPPED. SHRUBS MAY BE BALLED AND BURLAPPED OR IN CONTAINERS. ALL PLANTS ARE TO BE HEALTHY, VIGOROUS AND FREE OF INSECTS AND DISEASE.
  - PLANTS ARE TO BE INSTALLED AS SPECIFIED IN THE PLANTING DETAILS WITH ADEQUATE WATER PROVIDED DURING PLANTING TO ALLOW COMPACTION OF THE PLANTING SOIL TO PREVENT ANY AIR POCKETS OR SETTLEMENT AFTER PLANTING.
  - ALL PLANTING BEDS ARE TO BE COVERED WITH 2" OF WOOD CHIP MULCH.
  - RECOMMENDED PLANTING DATES ARE APRIL 15 TO JUNE 15 AND SEPTEMBER 15 TO NOVEMBER 15.
  - PLANT SUBSTITUTIONS SHALL BE ALLOWED BASED ON AVAILABILITY. SUBSTITUTIONS MAY BE MADE ONLY WITH DIRECT APPROVAL FROM THE APPLICANT'S LANDSCAPE ARCHITECT OR OWNER. ALL SUBSTITUTIONS SHALL BE THE SAME PLANTING HEIGHT AND GROWTH HABIT AS THE PLANT BEING SUBSTITUTED.

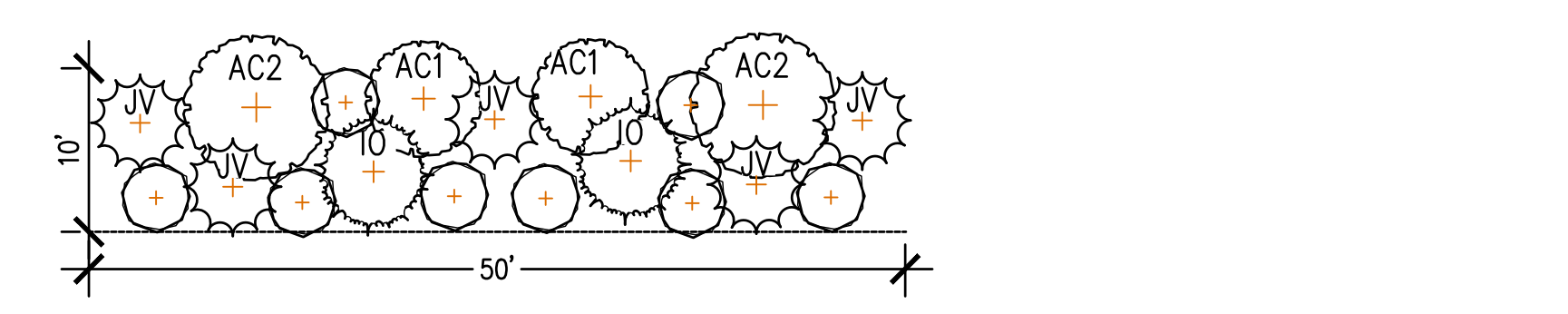
- MAINTENANCE & WARRANTY:**
- AFTER PLANTING IS COMPLETED, THE OWNER SHALL BE RESPONSIBLE TO PROVIDE ADEQUATE WATER TO ENSURE HEALTHY AND VIGOROUS GROWTH.
  - ANY PLANT WHICH IS NOT ALIVE AND GROWING SATISFACTORILY WITHIN A THREE-YEAR PERIOD SHALL BE REPLACED BY THE CONTRACTOR IN CONFORMANCE WITH THE PLANTING SPECIFICATIONS.
  - PLANTINGS IN AREA D WILL BE TRIMMED TO A HEIGHT OF NO LESS THAN 12'. PLANTINGS IN AREA E WILL BE TRIMMED TO A HEIGHT OF NO LESS THAN 18'.

**PLANTABLE SEED BED MATERIAL:**  
A MINIMUM OF 4"-6" OF SEED BED MATERIAL SHALL BE ESTABLISHED WHERE PLACED ON EXISTING SUBSOIL, AND A MINIMUM OF 6" OF SUITABLE SEED BED MATERIAL ON AREAS WITHOUT EXISTING SUBSOIL. THE MATERIAL TO BE FURNISHED SHALL CONSIST OF LOOSE, FRIABLE TOPSOIL FREE OF REFUSE, BRUSH, STUMPS, ROOTS, ROCKS, COBBLES, STONES, NOXIOUS WEEDS, LITTER AND OTHER MATERIALS WHICH ARE LONGER THAN 1 INCH IN ANY DIMENSION AND WHICH WILL PREVENT THE FORMATION OF A SUITABLE SEED BED. ORGANIC MATTER SHALL CONSTITUTE NOT LESS THAN 4 PERCENT NOR MORE THAN 20 PERCENT OF THE PLANTABLE SOIL. THE PLANTABLE SOIL SHALL HAVE AN ACIDITY RANGE OF APPROXIMATELY 5.5 PH TO 7.5 PH. THE PLANTABLE SOIL CAN BE ARRIVED AT BY THOROUGHLY MIXING A SUITABLE ORGANIC SOIL WITH A SUITABLE SUBSOIL. THE RESULTING MIX SHALL BE HOMOGENEOUS MATERIAL FREE FROM HARD LUMPS, OTHER MATERIALS SPECIFIED ABOVE AND BE CAPABLE OF SUPPORTING PLANT GROWTH.

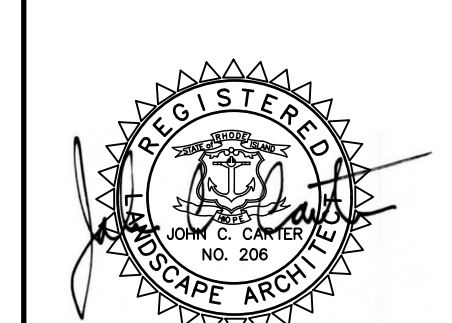
**NOTE:**  
PLANT AREAS 'A' AND 'B' ARE NOT PART OF THE NATICK AVENUE SOLAR PROJECT UNDER REVIEW BY THE CITY OF CRANSTON.



C-TYPICAL SUPPLEMENTAL PLANTING DETAIL - 50' PATTERN  
SCALE: NTS



D & E - TYPICAL (AMENDED) SUPPLEMENTAL PLANTING DETAIL - 50' PATTERN  
SCALE: NTS



CROSS SECTIONS 4  
**NATICK AVENUE SOLAR**  
ASSESSOR'S PLAT 22-3 LOTS 108 & 119  
CRANSTON, RHODE ISLAND  
PREPARED BY  
**JOHN C. CARTER & COMPANY, INC.**  
LANDSCAPE ARCHITECTURE  
960 Boston Neck Road  
Narragansett, RI 02882  
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PREPARED FOR  
**REVITY ENERGY, LLC.**  
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Warwick, RI

MAY 8, 2020  
DWN. BY: L.M.W.

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