

POMHAM SOLAR PERMITTING PLANS

PROPERTY:

OFF IRON MINE HILL ROAD
NORTH SMITHFIELD, RI 02896
AP 16 LOTS 18 & 19

LOT 18 PROPERTY OWNER:

JOSEPH AND SANDRA AUTHIER
850 IRON MINE HILL ROAD
NORTH SMITHFIELD, RI 02896

LOT 19 PROPERTY OWNER / PREPARED FOR:

ISLANDER SOLAR, LLC
396 SPRINGFIELD AVENUE, 2ND FLOOR
SUMMIT, NJ 07901

JANUARY 7, 2022

PREPARED BY:



environmental consulting
& engineering services

404 Wyman Street, Suite 375
Waltham, Massachusetts 02451
p 781.419.7696
www.essgroup.com



DRAWING INDEX

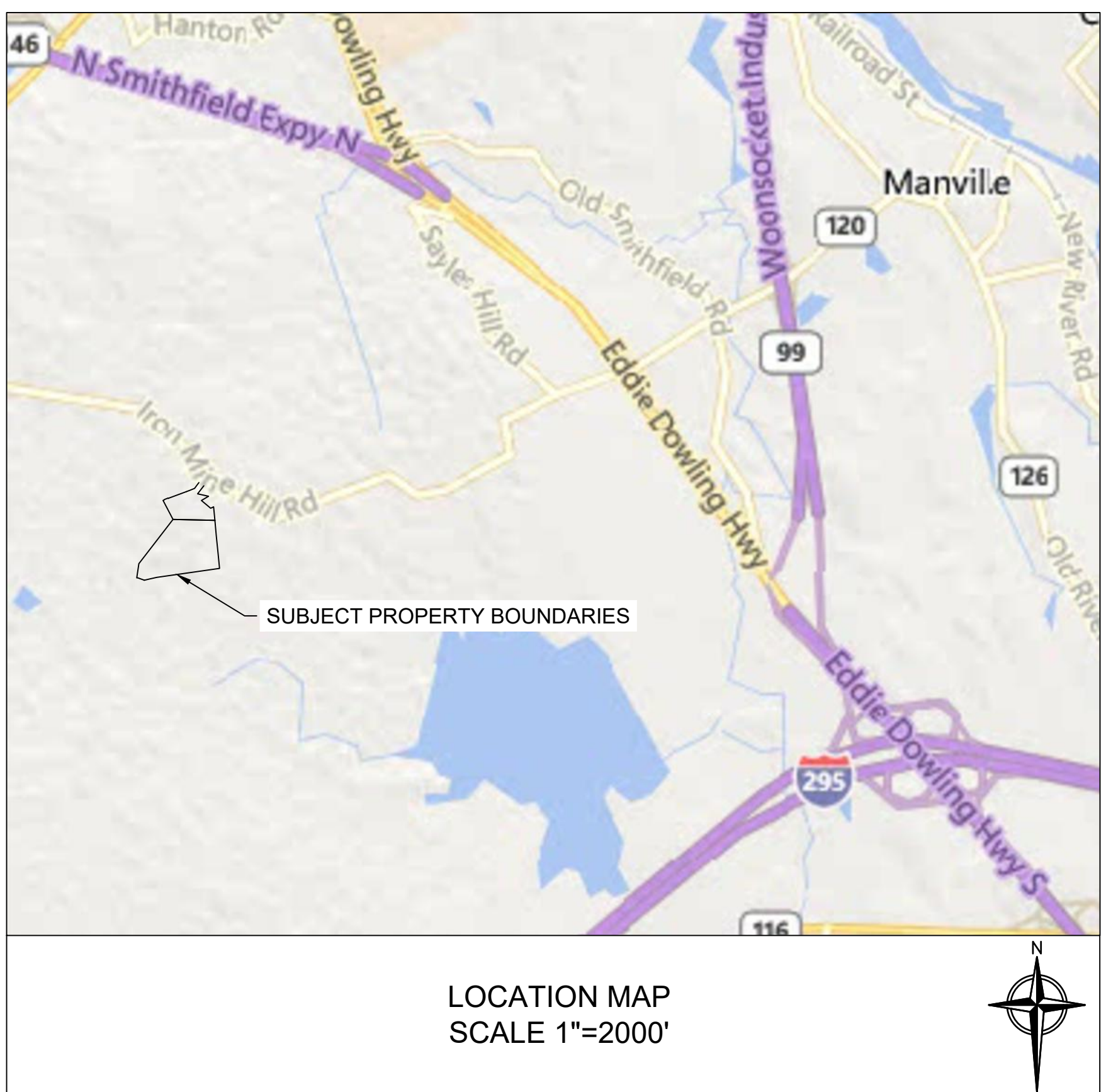
DRAWING NUMBER	Sheet Title
-	COVER
N-1	NOTES
N-2	NOTES
SO-1	SITE OVERVIEW PLAN
R-1	200-FT RADIUS MAP
C-1	LAYOUT AND MATERIALS PLAN
C-2	LAYOUT AND MATERIALS PLAN
C-3	GRADING AND DRAINAGE PLAN
C-4	GRADING AND DRAINAGE PLAN
C-5	EROSION AND SEDIMENT CONTROL PLAN
C-6	EROSION AND SEDIMENT CONTROL PLAN
D-1	DETAILS
D-2	DETAILS
D-3	DETAILS
D-4	DETAILS
D-5	DETAILS

ATTACHMENTS

"LIMITED CONTENT BOUNDARY SURVEY", DATED DECEMBER 19, 2019,
NORTHEAST ENGINEERS & CONSULTANTS.

"ONE LINE DIAGRAM", DATED SEPTEMBER 11, 2018 AND REVISED
DECEMBER 19, 2018 AND FEBRUARY 12, 2019, PURE POWER ENGINEERING.

FOR PERMITTING ONLY



1. BASE PLAN: "LIMITED CONTENT BOUNDARY SURVEY WITH EXISTING CONDITIONS AND TOPOGRAPHY", DATED DECEMBER 17, 2019, NORTHEAST ENGINEERS & CONSULTANTS.
2. ENGINEER'S ENDORSEMENT IS FOR PERMITTING PURPOSES ONLY. PLANS NOT INTENDED FOR CONSTRUCTION.
3. WETLANDS WERE DELINEATED BY TETRATECH IN 2019 AND SUBSEQUENTLY BY ESS IN AUGUST 2019.
4. PORTIONS OF EXISTING TRAIL SCALED FROM RIGIS WINTER 2019-2020 (LEAF-OFF) DIGITAL AERIAL PHOTOGRAPH.
5. A PORTION OF THE SITE IS LOCATED WITHIN A RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT NATURAL HERITAGE AREA. NATURAL HERITAGE AREA BOUNDARY OBTAINED FROM RHODEMAP, RIGIS, AND RIDEM DATED DECEMBER 2021. NATURAL HERITAGE AREA BOUNDARY LOCATIONS ARE APPROXIMATE.
6. SITE IS NOT LOCATED WITHIN A TOWN REGULATED GROUNDWATER PROTECTION OVERLAY DISTRICT.

3. NO CHANGES ARE TO BE MADE UNLESS AUTHORIZED BY THE OWNER.
2. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING, UNDERSTANDING, AND COMPLYING WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL SAFETY CODES, REGULATIONS, LEGAL REQUIREMENTS, PERMIT CONDITIONS, ETC.
3. ALL PRODUCTS TO BE INSTALLED PER MANUFACTURER'S OR DISTRIBUTOR'S INSTRUCTIONS. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO INSTALLATION.
4. UNLESS OTHERWISE NOTED, ALL WORK SHALL CONFORM TO RIDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION AMENDED 2018, WITH ALL REVISIONS AND R.I. STANDARD DETAILS, 1998 EDITION, WITH ALL REVISIONS.
5. REFER TO CONSTRUCTION RECOMMENDATIONS INCLUDED IN THE "GEOTECHNICAL ENGINEERING REPORT" PREPARED BY TERRACON CONSULTANTS, INC., DATED JANUARY 21, 2021 AS REVISED.
6. THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL WALKS, STREETS, PAVEMENTS, HIGHWAY GUARDS, CURBING, EDGING, TREES AND PLANTINGS, ETC. ON OR OFF THE PREMISES, AND SHALL REPAIR AND REPLACE OR OTHERWISE MAKE GOOD AT THE CONTRACTOR'S EXPENSE ANY ITEMS DAMAGED AS A RESULT OF THE CONTRACTOR'S WORK.
7. IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, SEDIMENT, GROUNDWATER, OR OTHER MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECT MATERIAL AND SHALL NOTIFY THE OWNER IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.
8. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING AND GENERATED RUBBLE, DEBRIS AND OTHER DELETERIOUS MATERIAL IN ACCORDANCE WITH THE SPECIFICATIONS AND ALL APPLICABLE CODES AND REGULATIONS.
9. THE CONTRACTOR SHALL MAINTAIN THE PROJECT SITE IN A SAFE AND CLEAN CONDITION FOR THE DURATION OF CONSTRUCTION.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
11. UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWINGS, IN THE SPECIFICATIONS, AND IN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, OR FIRE HYDRANTS WITHOUT APPROPRIATE PERMITS.
12. AREAS OUTSIDE THE LIMITS OF THE PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE AND NO ADDITIONAL COST TO THE OWNER.
13. DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND NO ADDITIONAL COST TO THE OWNER.
14. THE CONTRACTOR SHALL USE DESIGNATED LOCATIONS WITHIN THE ESTABLISHED LIMITS OF DISTURBANCE TO ACCESS THE SITE.

1. PHASING AND CONSTRUCTION SEQUENCE SHALL BE IMPLEMENTED TO MINIMIZE THE AMOUNT OF EARTH DISTURBANCE AT ANY ONE TIME. EARTH DISTURBANCE ACTIVITIES DURING EACH PHASE OF CONSTRUCTION SHALL BE LIMITED TO A MAXIMUM OF 5 ACRES WITH A COMMON DRAINAGE LOCATION. INITIATE APPROPRIATE STABILIZATION PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN DAYS AFTER THE CONSTRUCTION ACTIVITY IN THE AREA HAS TEMPORARILY OR PERMANENTLY CEASED AND PRIOR TO INITIATING LAND DISTURBANCE IN SUBSEQUENT PHASES.
2. WORK ASSOCIATED WITH THE PROJECT IS EXPECTED TO OCCUR IN THE FOLLOWING GENERAL ORDER, THOUGH SOME TASKS MAY OCCUR SIMULTANEOUSLY OR IN A DIFFERENT ORDER BASED ON CONTRACTOR'S MEANS AND METHODS:

- 2.1.1. ERECT OR POST A TWELVE (12) INCH WIDE BY EIGHTEEN (18) INCH LONG WEATHER RESISTANT SIGN WHICH BOLDLY STATES THE RIDEM PERMIT NUMBER. SIGN SHALL NOT BE INSTALLED TO A LIVE TREE.
- 2.1.2. CLEARLY MARK LIMITS OF DISTURBANCE FOR ALL PHASES.
- 2.1.3. INSTALL ALL PERIMETER EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES THAT ARE REQUIRED TO BE IN PLACE AND FUNCTIONAL BEFORE ANY SITE WORK BEGINS. THIS SHALL BE DONE IN ACCORDANCE WITH THE RI SESC HANDBOOK. UPON ACCEPTABLE COMPLETION OF SITE PREPARATION AND INSTALLATION OF EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES, SITE CONSTRUCTION ACTIVITIES MAY COMMENCE.
- 2.1.4. MARK SHADE TREES TO BE CUT FOR APPROVAL.
- 2.1.5. CLEAR TREES AND SELECTIVELY CUT APPROVED SHADE TREES
- 2.1.6. CLEAR AND GRUB ONLY AREAS REQUIRED TO COMPLETE THE WORK INCLUDED IN PHASE 1.
- 2.1.7. INSTALL AND MAINTAIN CONSTRUCTION ENTRANCE AND LAYDOWN AREA.

- 2.2.1. INSTALL INTERIOR EROSION AND SEDIMENT CONTROLS.
- 2.2.2. CLEAR AND GRUB ONLY AS NEEDED TO COMPLETE THE WORK INCLUDED IN PHASE 2.
- 2.2.3. INSTALL BASINS.
- 2.2.4. SPECIAL CARE SHALL BE TAKEN TO PREVENT SEDIMENT-LADEN RUNOFF FROM ENTERING THE BASINS. ANY SEDIMENT DEPOSITED WITHIN THE BASINS OR TRAPPED BY THE FILTER SOCK MUST BE PROMPTLY REMOVED. SEDIMENT-LADEN RUNOFF HAS THE POTENTIAL TO ADVERSELY AFFECT THE INFILTRATION CAPACITY OF UNDERLYING SOILS. IF SEDIMENT IS DEPOSITED INTO THE BASINS THE UNDERLYING SOILS MUST BE EXCAVATED TO REMOVE ANY DEPOSITED SEDIMENT AND SUPPLEMENTED TO RE-ESTABLISH THE INFILTRATION CAPACITY OF THE UNDERLYING SOILS TO THEIR PRE-CONSTRUCTION CONDITION.

- 2.3.1. CLEAR AND GRUB ONLY AS NEEDED TO COMPLETE THE WORK INCLUDED IN PHASE 3.
- 2.3.2. INSTALL TEMPORARY SEDIMENT TRAPS.
- 2.3.3. GRADE AND PREPARE AREA WITHIN FENCE AS NECESSARY FOR SOLAR ARRAY INSTALLATION.
- 2.3.4. INSTALL TEMPORARY STABILIZATION.
- 2.3.5. RESTORE TEMPORARY SEDIMENT TRAPS.
- 2.3.6. INSTALL PERIMETER FENCE, SOLAR ARRAY, AND ASSOCIATED WORK.

- 2.4.1. PERMANENTLY STABILIZE SITE.
- 2.4.2. INSPECT, CLEAN, AND REPAIR ALL BASINS AND FOREBAYS.
- 2.4.3. REMOVE RIDEM PERMIT SIGN, LOD MARKINGS, TEMPORARY POLLUTION PREVENTION MEASURES, AND TEMPORARY EROSION AND SEDIMENT CONTROLS. INSPECT AND REPAIR OR REPLACE PERMANENT FILTER SOCK INSTALLED IN BASIN 1 SAND FILTER.
- 2.4.4. COMPLETE FINAL SITE STABILIZATION OF ALL REMAINING DISTURBED AREAS AFTER REMOVAL OF TEMPORARY EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES.
- 2.4.5. COMPLETE SITE CLEANUP AND RESTORATION.

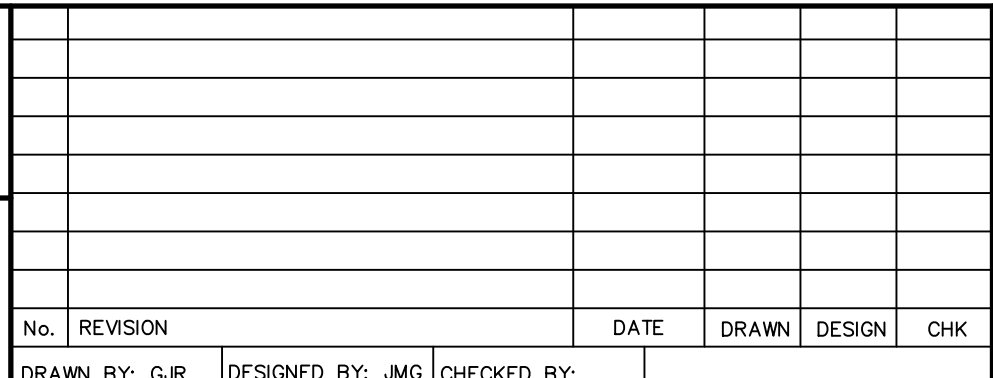
3. THE CONTRACTOR IS REQUIRED TO REVIEW AND IMPLEMENT THE SOIL EROSION AND SEDIMENT CONTROL PLAN THROUGHOUT CONSTRUCTION. THE PLAN MUST BE MAINTAINED AT THE SITE. IT IS THE OPERATOR'S RESPONSIBILITY TO MANAGE THE SITE DURING EACH CONSTRUCTION PHASE SO AS TO PREVENT POLLUTANTS FROM LEAVING THE SITE. THIS MAY REQUIRE THE CONTRACTOR TO REVISE AND AMEND THE SESC PLAN DURING CONSTRUCTION TO ADDRESS VARYING SITE AND/OR WEATHER CONDITIONS, SUCH AS BY ADDING OR REALIGNING EROSION OR SEDIMENT CONTROLS TO ENSURE THE SESC PLAN REMAINS COMPLIANT WITH THE RIDGES CONSTRUCTION GENERAL PERMIT.
2. EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED AS SHOWN HEREIN OR AS DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING EROSION CONTROL MEASURES TO PREVENT OFF-SITE TRACKING OF EARTH, SEDIMENT AND DEBRIS. THE CONTRACTOR SHALL REMOVE ANY SEDIMENT TRACKED ONTO PUBLIC RIGHT OF WAYS AT THE END OF EACH DAY.
4. TEMPORARY CONSTRUCTION ENTRANCE SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. THE ENTRANCE SHALL BE APPROXIMATELY 50 FEET LONG, AND SHALL BE MADE OF CRUSHED STONE CONSISTENT WITH RIDOT MATERIAL SPECIFICATION M.01.09 TABLE I, COLUMN II. THE WIDTH OF THE CONSTRUCTION ENTRANCE SHALL BE EQUAL TO THE WIDTH OF THE PROPOSED SITE ENTRANCE. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED BY THE CONTRACTOR IN A CONDITION THAT SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO ROADS. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO ROADS SHALL BE REMOVED. DURING WET WEATHER, IT MAY BE NECESSARY TO WASH VEHICLE TIRES AT THESE LOCATIONS PRIOR TO VEHICLES LEAVING THE SITE.
5. PERIMETER SOIL AND EROSION CONTROLS SHALL BE PLACED PRIOR TO ANY CONSTRUCTION ACTIVITIES. CONTRACTOR TO NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITIES. ALL SOIL AND EROSION CONTROLS SHALL BE CHECKED AND REPAIRED AS NECESSARY.
6. ALL TEMPORARY EROSION, RUNOFF, SEDIMENT, AND POLLUTION PREVENTION CONTROL MEASURES SHALL BE INSTALLED BY THE TIME EACH PHASE OF EARTH DISTURBANCE HAS BEGUN.
7. EXISTING PLANTABLE SOIL SHALL BE PRESERVED TO THE MAXIMUM EXTENT FEASIBLE AND AS NECESSARY TO SUPPORT HEALTHY VEGETATION, PROMOTE SOIL STABILIZATION, AND INCREASE STORMWATER INFILTRATION RATES.
8. EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF EACH STORM EVENT GREATER THAN 0.25 INCHES OF RAINFALL. ALL DAMAGED FILTER SOCKS SHALL BE REPLACED. ACCUMULATED SEDIMENT SHALL BE STOCKPILED FOR LATER REUSE.
9. INITIATE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THE AREA HAS TEMPORARILY OR PERMANENTLY CEASED. ANY DISTURBED AREA THAT WILL NOT HAVE ACTIVE CONSTRUCTION ACTIVITY OCCURRING WITHIN 14 DAYS MUST BE STABILIZED IN ACCORDANCE WITH THE RIDGES HANDBOOK.
10. TEMPORARY STRAW MULCH, WOOD CHIP MULCH, OR TEMPORARY EROSION CONTROL BLANKETS SHALL BE USED WHERE NON-VEGETATIVE COVER IS REQUIRED FOR A PERIOD GREATER THAN 14 DAYS BUT LESS THAN SIX MONTHS. MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MACHINE RESULTING IN 100% COVERAGE OF THE DISTURBED SOIL. IF ANCHORING IS NECESSARY, TACKIFIERS AND/OR NETTING EITHER WITH THE MULCH OR IMMEDIATELY FOLLOWING MULCH APPLICATION SHALL BE USED.

- TEMPORARY SEDIMENT TRAP NOTES

3. 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.
2. 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.
3. STABILIZE THE EARTHEN EMBANKMENT USING ANY OF THE FOLLOWING MEASURES, SEEDING FOR TEMPORARY VEGETATIVE COVER; SEEDING FOR PERMANENT VEGETATIVE COVER; OR SLOPE PROTECTION, IMMEDIATELY AFTER INSTALLATION.
4. CARRY OUT CONSTRUCTION OPERATIONS IN SUCH A MANNER THAT EROSION AND WATER POLLUTION ARE MINIMIZED.
5. 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. THE HEIGHT OF THE STONE OUTLET OR WEIR CREST SHOULD BE MAINTAINED AT LEAST 1 FOOT BELOW THE CREST OF THE EMBANKMENT. ALSO CHECK FOR SEDIMENT ACCUMULATION AND FILTRATION PERFORMANCE.
6. 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 AND IN SUCH A MANNER THAT IT WILL NOT ERODE AND CAUSE SEDIMENTATION PROBLEMS.
7. THE TEMPORARY SEDIMENT TRAP MAY BE REMOVED AFTER THE CONTRIBUTING DRAINAGE AREA IS STABILIZED.



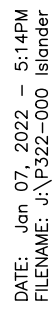
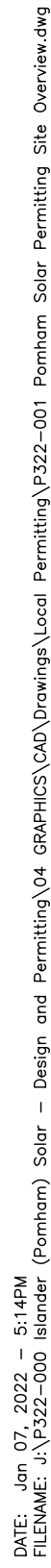
**POMHAM SOLAR
AP 16 LOTS 18 & 19
OFF IRON MINE HILL ROAD
NORTH SMITHFIELD, RI 02896**



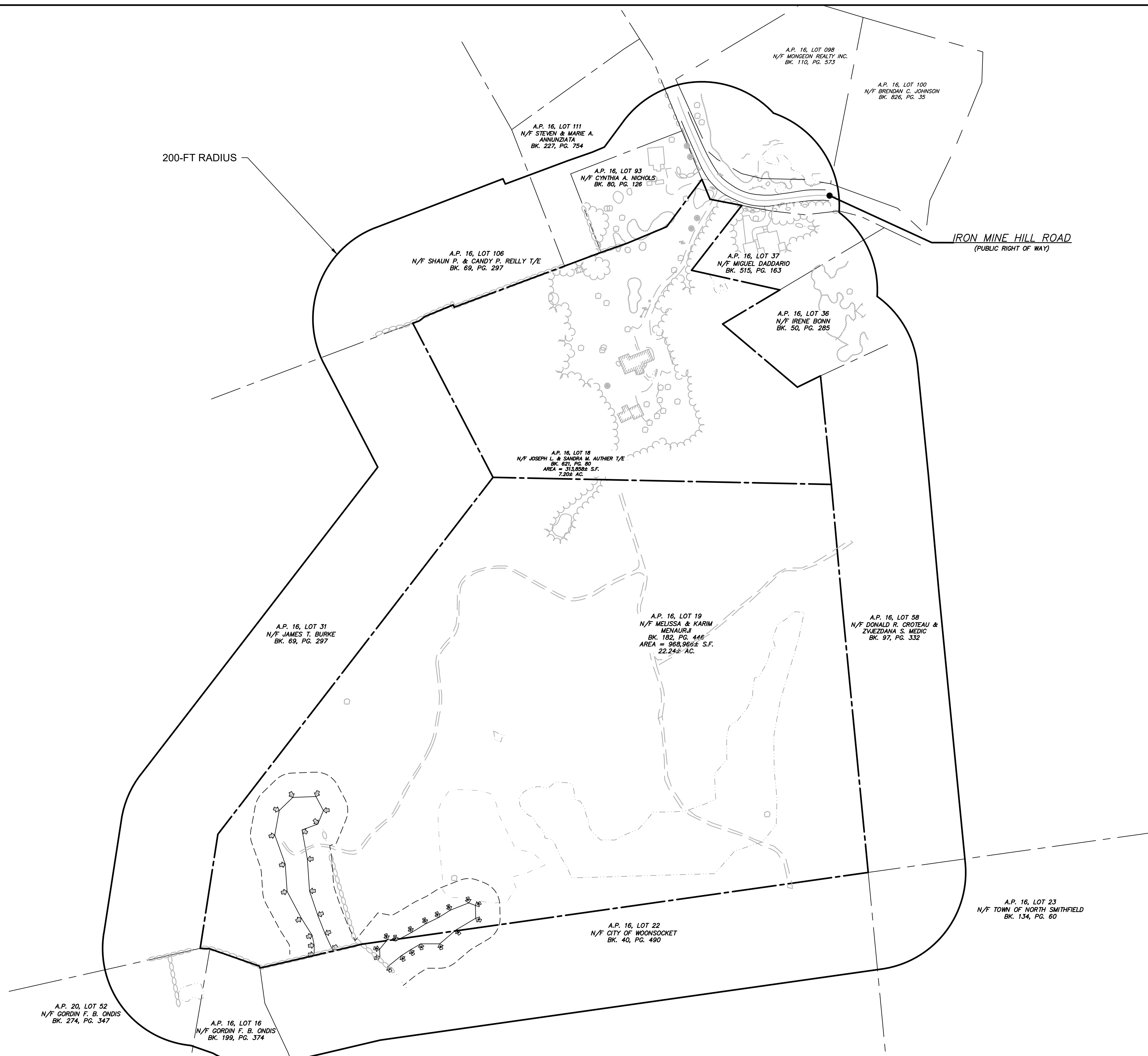
FOR PERMITTING ONLY

N-1

PROJECT NO: P322-001
DATE OF ISSUE: 1/7/2022
SHEET NO: 2 OF 16



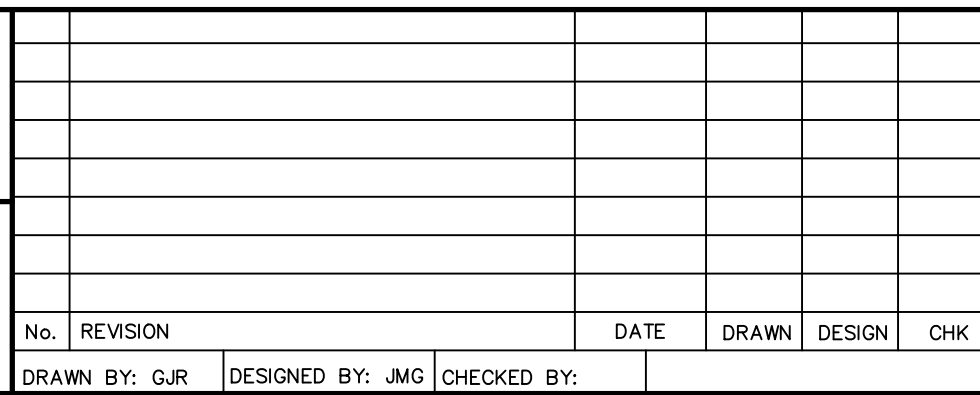
PROJECT NO: P322-001
DATE OF ISSUE: 1/7/2022
SHEET NO: 4 OF 16



JASON M. GOLD

No.  7788

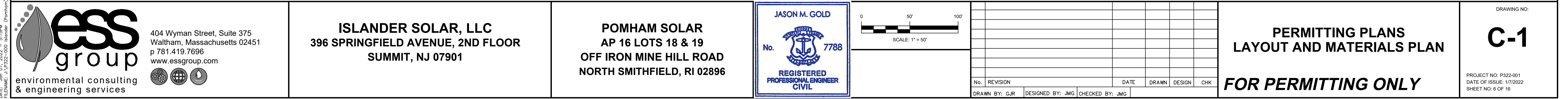
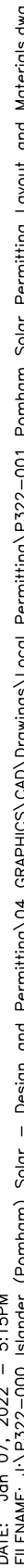
REGISTERED
PROFESSIONAL ENGINEER
CIVIL



DRAWING NO:

PROJECT NO: P322-001
DATE OF ISSUE: 1/7/2022
SHEET NO: 5 OF 16

1. FINAL LOCATION OF ALL ELECTRICAL EQUIPMENT, WIRES, POLES, INVERTERS, ETC. TO BE DETERMINED BY OTHERS AND APPROVED BY OWNER. ALL ELECTRICAL CONNECTION AND DISTRIBUTION WITHIN THE ARRAY SHALL BE UNDERGROUND. ALL UNDERGROUND ELECTRICAL NOT SHOWN ON THIS PLAN SET.
2. FINAL NUMBER AND LOCATION OF SOLAR MODULES TO BE DESIGNED BY OTHERS. PRIOR TO INSTALLATION. FINAL NUMBER AND LOCATION MAY VARY AS NEEDED WITHIN PROPOSED FENCE LINE. MAX PANEL HEIGHT SHALL NOT EXCEED 15 FEET.
3. SIGNAGE INDICATING MANUFACTURER'S IDENTIFICATION, INSTALLER'S IDENTIFICATION, EQUIPMENT INFORMATION, INDICATION OF OWNERSHIP, AND APPROPRIATE WARNING STATEMENTS SHALL BE POSTED ON OR NEAR THE SOLAR MODULES IN A CLEAR VISIBLE MANNER AND SHALL COMPLY WITH PREVAILING REGULATIONS.
4. WARNING/DANGER SIGNAGE TO BE INSTALLED AT 300 FT INTERVALS ON PERIMETER FENCE AND NO TRESPASSING SIGN TO BE INSTALLED AT 100 FT INTERVALS, WITH A MINIMUM OF ONE (1) SIGN EACH FENCE SIDE AROUND THE FULL INSTALLATION PERIMETER.
5. POST SIGNAGE WITH 24-HOUR EMERGENCY CONTACT INFORMATION ON THE VEHICLE GATE.
6. EXTERIOR LIGHTING IS NOT PROPOSED.

[illegible]

1. FINAL LOCATION OF ALL ELECTRICAL EQUIPMENT, WIRES, POLES, INVERTERS, ETC. TO BE DETERMINED BY OTHERS AND APPROVED BY OWNER. ALL ELECTRICAL CONNECTION AND DISTRIBUTION WITHIN THE ARRAY SHALL BE UNDERGROUND. ALL UNDERGROUND ELECTRICAL NOT SHOWN ON THIS PLAN SET.
2. FINAL NUMBER AND LOCATION OF SOLAR MODULES TO BE DESIGNED BY OTHERS. PRIOR TO INSTALLATION. FINAL NUMBER AND LOCATION MAY VARY AS NEEDED WITHIN PROPOSED FENCE LINE. MAX PANEL HEIGHT SHALL NOT EXCEED 15 FEET.
3. SIGNAGE INDICATING MANUFACTURER'S IDENTIFICATION, INSTALLER'S IDENTIFICATION, EQUIPMENT INFORMATION, INDICATION OF OWNERSHIP, AND APPROPRIATE WARNING STATEMENTS SHALL BE POSTED ON OR NEAR THE SOLAR MODULES IN A CLEAR VISIBLE MANNER AND SHALL COMPLY WITH PREVAILING REGULATIONS.
4. WARNING/DANGER SIGNAGE TO BE INSTALLED AT 300 FT INTERVALS ON PERIMETER FENCE AND NO TRESPASSING SIGN TO BE INSTALLED AT 100 FT INTERVALS, WITH A MINIMUM OF ONE (1) SIGN EACH FENCE SIDE AROUND THE FULL INSTALLATION PERIMETER.
5. POST SIGNAGE WITH 24-HOUR EMERGENCY CONTACT INFORMATION ON THE VEHICLE GATE.
6. EXTERIOR LIGHTING IS NOT PROPOSED.

A.P. 16, LOT 31
N/F JAMES T. BURKE
BK. 69, PG. 297

A.P. 16, LOT 18
N/F JOSEPH L. & SANDRA M. AUTHIER T/E
BK. 621, PG. 80
AREA = 313,858± S.F.
7.20± AC.

SOLAR ARRAY
5.5± ACRES
2.8± MW DC
5,252± MODULES

A.P. 16, LOT 19
N/F MELISSA & KARIM MENAUR
BK. 182, PG. 446
AREA = 968,966± S.F.
22.24± AC.

A.P. 16, LOT 58
N/F DONALD R. CROTEAU & ZVJEZDANA S. MEDIC
BK. 97, PG. 332

MAINTAIN EXISTING VEGETATION

ERNST NORTHEAST SOLAR
POLLINATOR 3-FT MIX (ERNMX-612)
(OR APPROVED EQUAL).

SELECTIVELY CUT SHADE TREES.
STUMPS AND UNDERGROWTH TO REMAIN. STABILIZE
DISTURBED AREAS WITH NEW ENGLAND WETLAND PLANTS,
INC. EROSION CONTROL / RESTORATION MIX FOR DRY SITES
(OR APPROVED EQUAL).

NEW ENGLAND WETLAND PLANTS, INC. RESTORATION
MIX FOR DETENTION BASINS (OR APPROVED EQUAL).

BASIN 3

BOLDER
DISPOSAL
AREA

STABILIZE DISTURBED AREAS WITH NEW
ENGLAND WETLAND PLANTS, INC.
EROSION CONTROL / RESTORATION MIX
FOR DRY SITES (OR APPROVED EQUAL).

LIMIT OF SHADE TREE CLEARING

- 12 FT WIDE GATE AT EXISTING TRAIL

10-FT TRAIL

BASIN 2 -

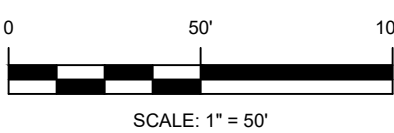
LIMITS OF DENSE
BOULDER AREA (TYP)



404 Wyman Street, Suite 375
Waltham, Massachusetts 02451
p 781.419.7696
www.essgroup.com

ISLANDER SOLAR, LLC
396 SPRINGFIELD AVENUE, 2ND FLOOR
SUMMIT, NJ 07901

**POMHAM SOLAR
AP 16 LOTS 18 & 19
OFF IRON MINE HILL ROAD
NORTH SMITHFIELD, RI 02896**



No.	REVISION				DATE	DRAWN	DESIGN	CHK	
	DRAWN BY: JGR	DESIGNED BY: JMG	CHECKED BY: JMG						

PERMITTING PLANS LAYOUT AND MATERIALS PLAN

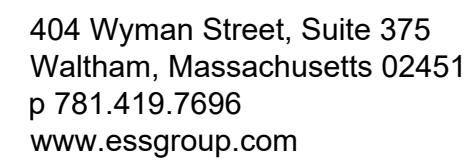
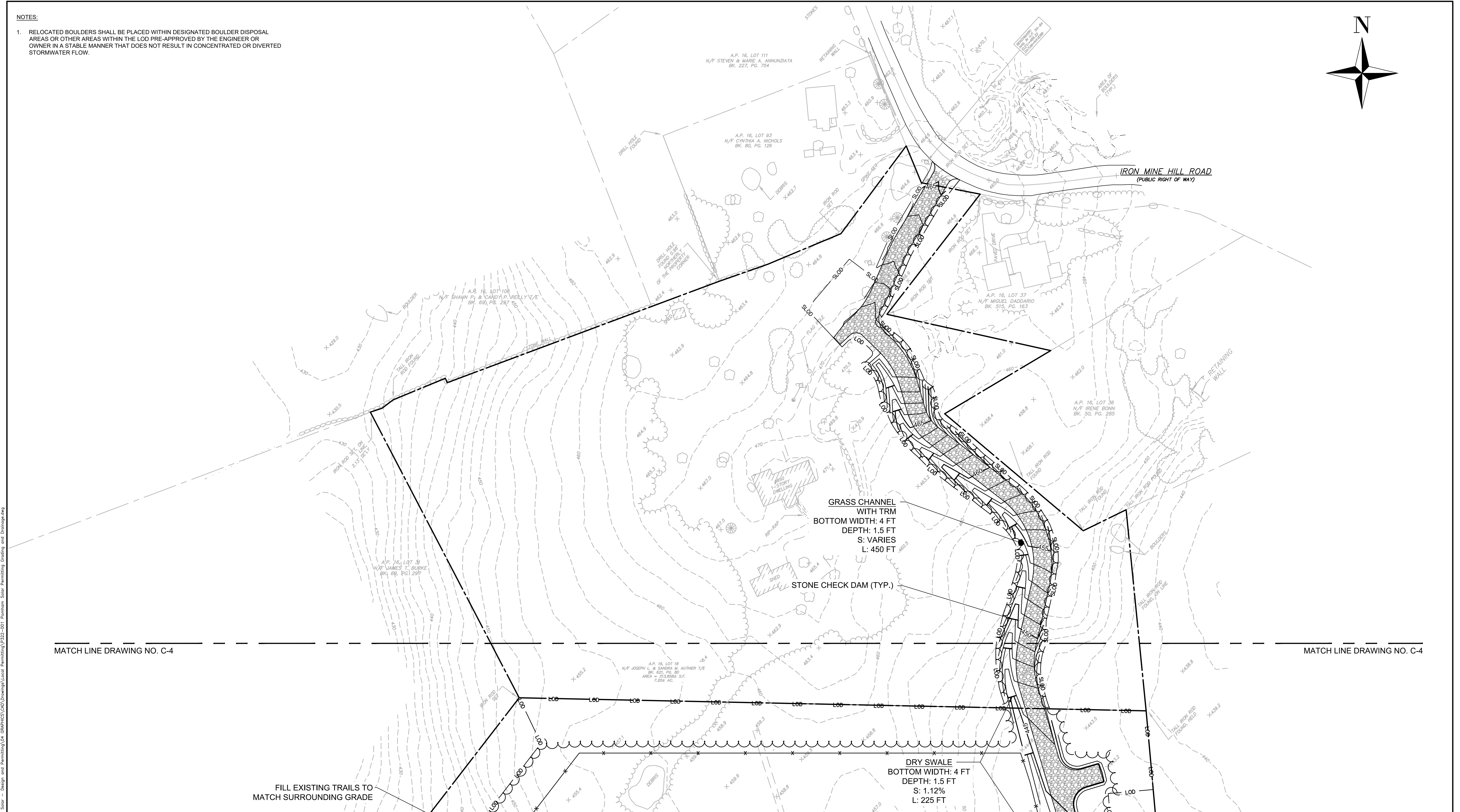
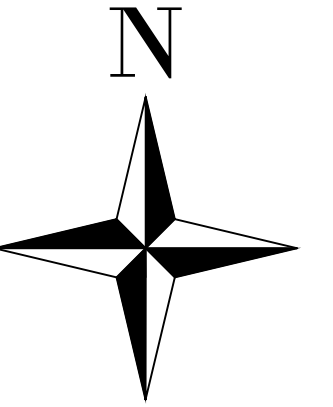
FOR PERMITTING ONLY

DRAWING NO

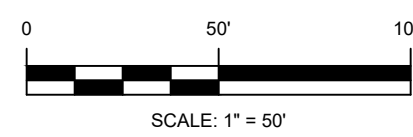
C-2

PROJECT NO: P322-001
DATE OF ISSUE: 1/7/2023
SHEET NO: 7 OF 16

1. RELOCATED BOULDERS SHALL BE PLACED WITHIN DESIGNATED BOULDER DISPOSAL AREAS OR OTHER AREAS WITHIN THE LOD PRE-APPROVED BY THE ENGINEER OR OWNER IN A STABLE MANNER THAT DOES NOT RESULT IN CONCENTRATED OR DIVERTED STORMWATER FLOW.



**POMHAM SOLAR
AP 16 LOTS 18 & 19
OFF IRON MINE HILL ROAD
NORTH SMITHFIELD, RI 02896**



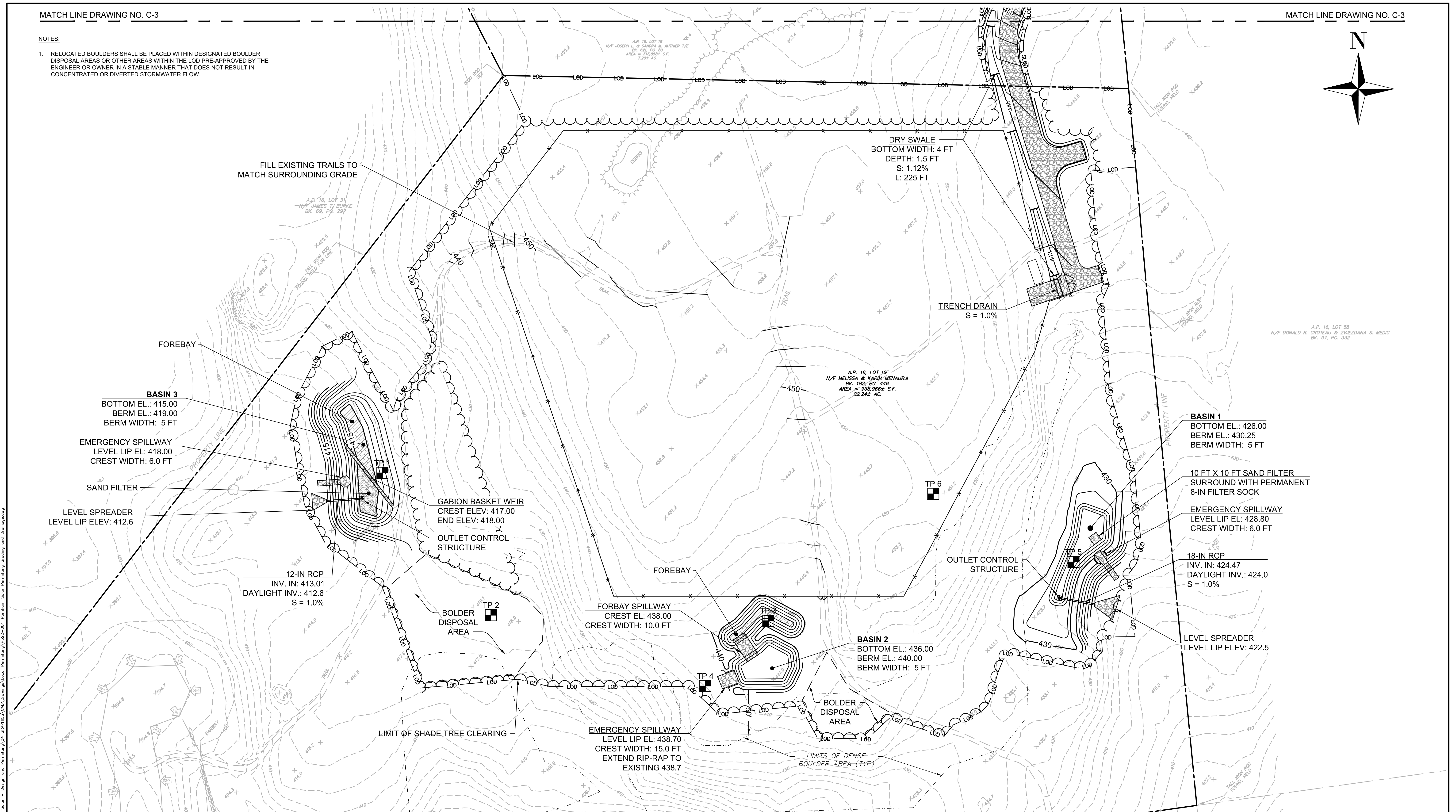
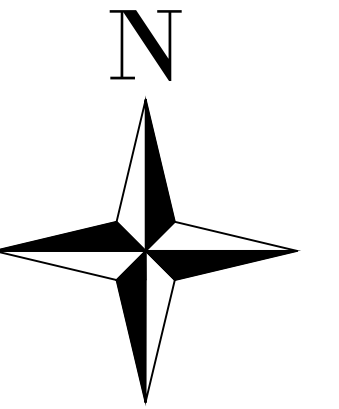
No.	REVISION				DATE	DRAWN	DESIGN	CHK	
	DRAWN BY: GJR	DESIGNED BY: JMG	CHECKED BY:						

FOR PERMITTING ONLY

C-3

PROJECT NO: P322-001
DATE OF ISSUE: 1/7/2022
SHEET NO: 8 OF 16

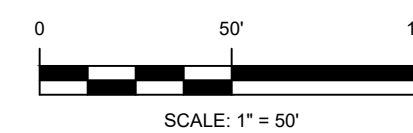
1. RELOCATED BOULDERS SHALL BE PLACED WITHIN DESIGNATED BOULDER DISPOSAL AREAS OR OTHER AREAS WITHIN THE LOD PRE-APPROVED BY THE ENGINEER OR OWNER IN A STABLE MANNER THAT DOES NOT RESULT IN CONCENTRATED OR DIVERTED STORMWATER FLOW.



JASON M. GOLD

No.  7788

REGISTERED
PROFESSIONAL ENGINEER
CIVIL



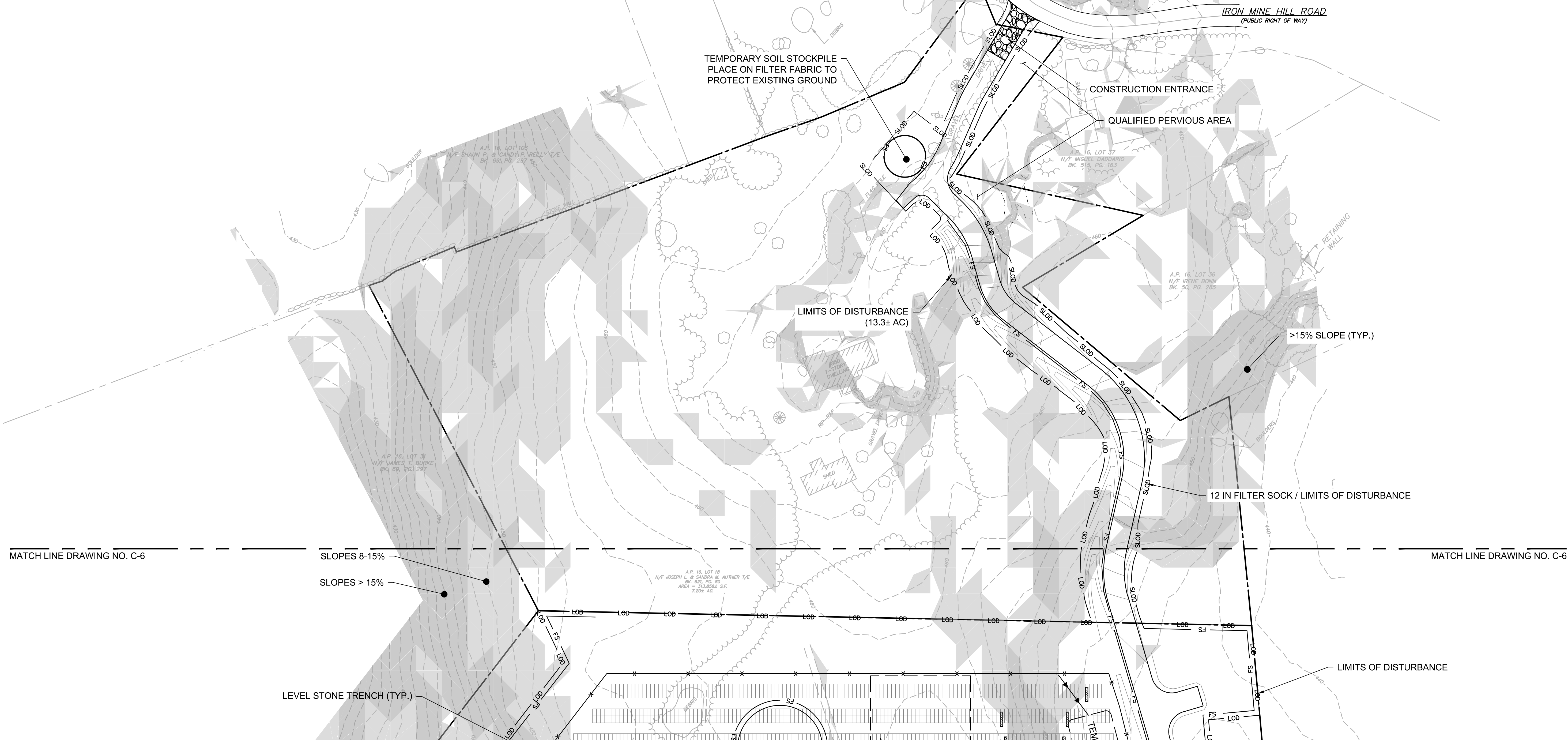
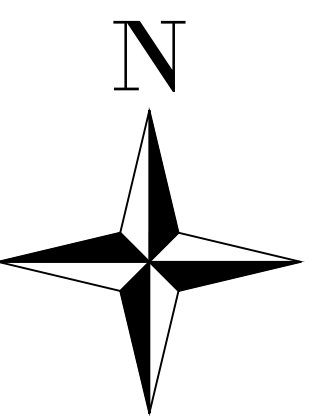
No.	REVISION				DATE	DRAWN	DESIGN	CHECKED	BY:
	DRAWN BY: GJR				DESIGNED BY: JMG	CHECKED BY:			

FOR PERMITTING ONLY

C-4

PROJECT NO: P322-001
DATE OF ISSUE: 1/7/2022
SHEET NO: 9 OF 16

1. ROLL-OFF CONTAINER AND CONCRETE WASHOUT AREA TO BE LOCATED WITHIN TEMPORARY LAYDOWN AREA. FINAL LOCATIONS OF TO BE DETERMINED BY CONTRACTOR AS APPROVED BY OWNER.

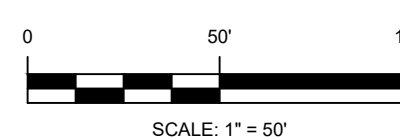
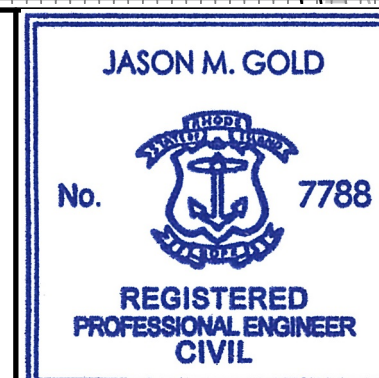


404 Wyman Street, Suite 375
Waltham, Massachusetts 02451
p 781.419.7696
www.essgroup.com



ISLANDER SOLAR, LLC
396 SPRINGFIELD AVENUE, 2ND FLOOR
SUMMIT, NJ 07901

**POMHAM SOLAR
AP 16 LOTS 18 & 19
OFF IRON MINE HILL ROAD
NORTH SMITHFIELD, RI 02896**

[illegible]

PERMITTING PLANS
EROSION AND SEDIMENT CONTROL PLAN

FOR PERMITTING ONLY

DRAWING NO:

C-5

PROJECT NO: P322-001
DATE OF ISSUE: 1/7/2022
SHEET NO: 10 OF 16

DATE: Jan 07, 2022 - 5:15PM
 FILENAME: J:\P322-000 Islander (Pomhoh) Solar - Design and Permitting\04 GRAPHICS\CAD\Drawings\Local Permitting\P322-001 Pomhoh Solar Permitting ESC.dwg

Copyright © ESS Group, Inc. 2022

1. ROLL-OFF CONTAINER AND CONCRETE WASHOUT AREA TO BE LOCATED WITHIN TEMPORARY LAYDOWN AREA. FINAL LOCATIONS OF TO BE DETERMINED BY CONTRACTOR AS APPROVED BY OWNER.

SLOPES > 15%

TEMPORARY DIVERSION (TYP.)

FILTER SOCK (TYP.)

COMBINED SILT FENCE AND FILTER SOCK

STOCKPILE

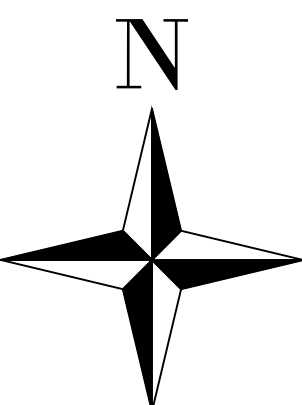
TEMP.
LAYDOWN

TEMP. SED TRA

LIMITS OF DISTURBANCE

CONSTRUCTION ENTRANCE

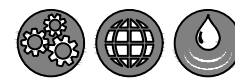
A.P. 16, LOT 58
N/F DONALD R. CROTEAU & ZWJEZDANA S. MEDIC
BK. 97, PG. 332



DATE: Jan 07, 2022 - 5:15PM
 FILENAME: J:\P322-000 Islander (Pomham) Solar - Design and Permitting\04 GRAPHICS\CAD\Drawings\Local Permitting\P322-001 Pomham Solar Permitting ESC.dwg

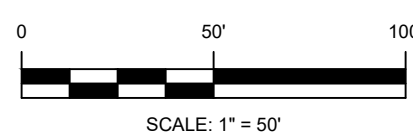


404 Wyman Street, Suite 375
Waltham, Massachusetts 02451
p 781.419.7696
www.essgroup.com



ISLANDER SOLAR, LLC
396 SPRINGFIELD AVENUE, 2ND FLOOR
SUMMIT, NJ 07901

**POMHAM SOLAR
AP 16 LOTS 18 & 19
OFF IRON MINE HILL ROAD
NORTH SMITHFIELD, RI 02896**



No.	REVISION				DATE	DRAWN	DESIGN	CHK	
	DRAWN BY: GJR	DESIGNED BY: JMG	CHECKED BY:						

PERMITTING PLANS
EROSION AND SEDIMENT CONTROL PLAN

FOR PERMITTING ONLY

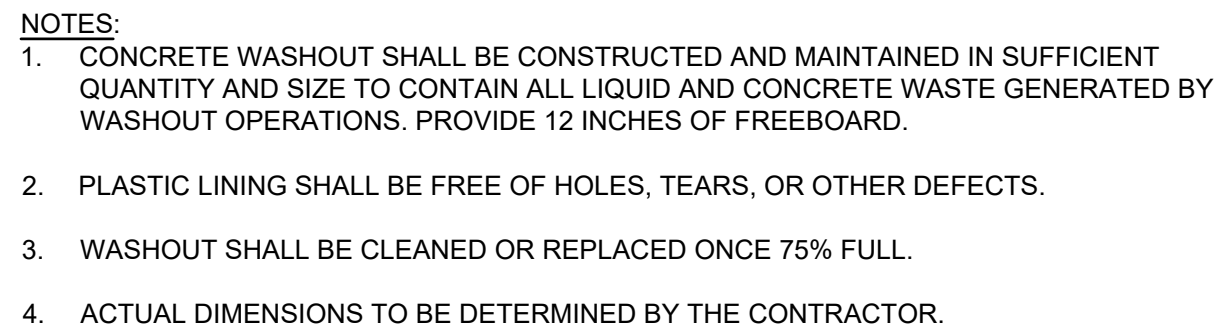
DRAWING NO:

C-6

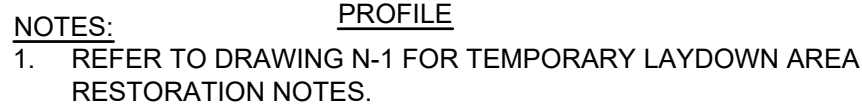
PROJECT NO: P322-001
DATE OF ISSUE: 1/7/2023
SHEET NO: 11 OF 16



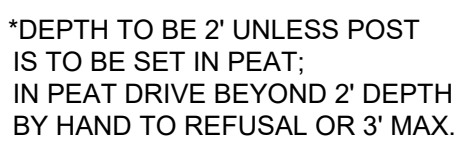
SCALE: NTS



SCALE: NTS



SCALE: NTS



10	SCA
----	-----



1. SIGN SHALL BE 0.040 IN. RUST FREE ALUMINUM.
2. SIGN SHALL COMPLY WITH ANSI Z535.
3. DANGER SIGN TO BE SPACED EVERY 300 FEET ALONG FENCE LINE.

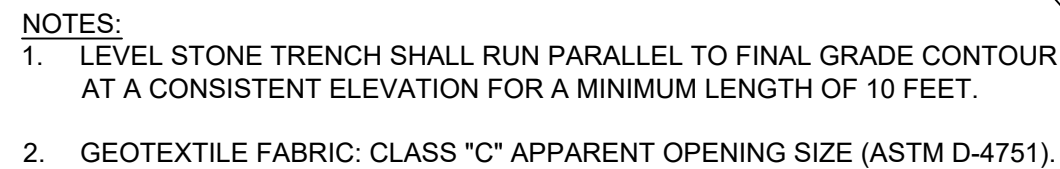


1. SIGN SHALL BE 0.040 IN. RUST FREE ALUMINUM.
2. SIGN SHALL COMPLY WITH ANSI Z535.
3. NO TRESPASSING SIGN TO BE SPACED EVERY 100 FEET ALONG FENCE LINE.



1. SIGN SHALL BE REFLECTIVE RUST FREE ALUMINUM.
2. EMERGENCY CONTACT TELEPHONE NUMBER TO BE PROVIDED BY OWNER.

12	SCA
----	-----



12 SCAR



12 SC



JASON M. GOLD

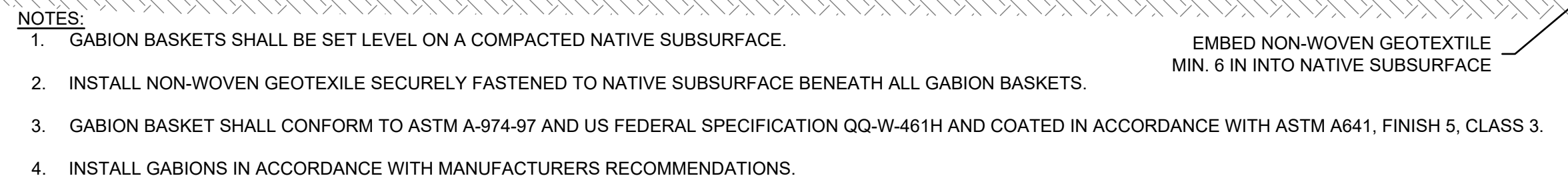
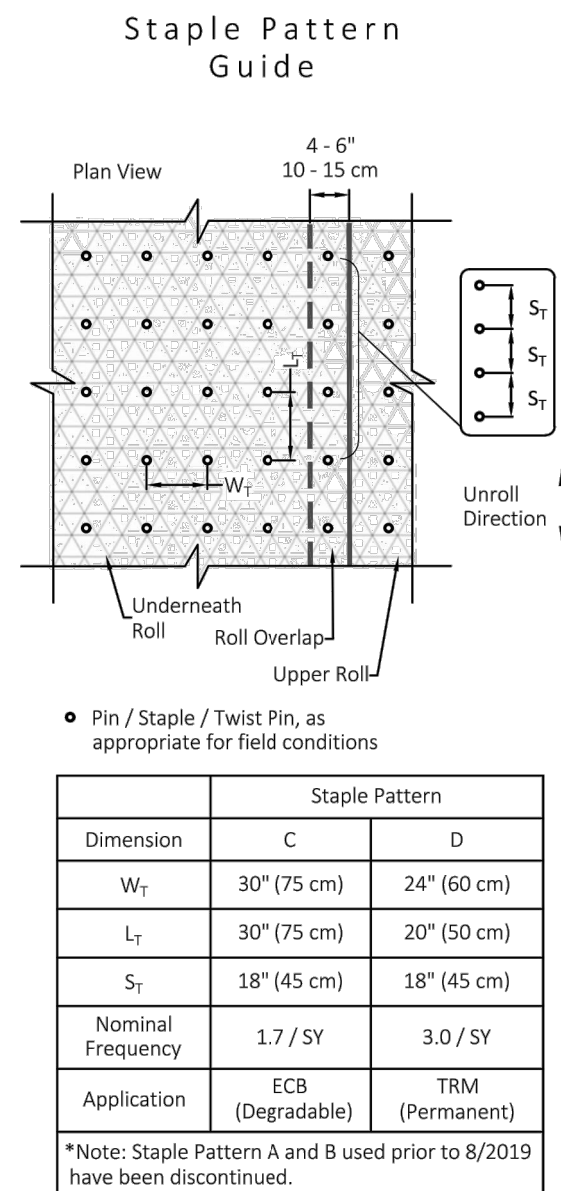
No.  7788

REGISTERED
PROFESSIONAL ENGINEER
CIVIL

No.	REVISION				DATE	DRAWN	DESIGN	CHKD BY:		
	DRAWN BY: GJR				DESIGNED BY: JMG	CHECKED BY:				

FOR PERMITTING ONLY

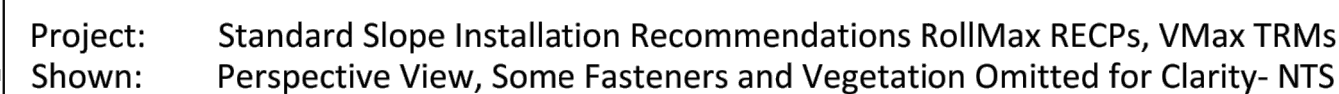
PROJECT NO: P322-001
DATE OF ISSUE: 1/7/2022
SHEET NO: 12 OF 16



SCALE: NTS



SCALE: NTS



Date: 3/24/20
Revision: 0
Drawings: 1/3

SCALE: NTS



SCALE: NTS



NOTES:

1. WIDTH OF THE ACCESS ROAD SHALL BE 20 FEET.
2. EXISTING PLANTABLE SOIL SHALL BE REMOVED UNTIL A SOLID NATIVE SUB-BASE HAS BEEN REACHED.
3. A GEOTEXTILE FABRIC SHALL BE INSTALLED ON TOP OF THE SOLID NATIVE SUB-BASE BEFORE THE AGGREGATE SUB-BASE IS INSTALLED.
4. THE AGGREGATE SURFACE SHALL BE A MINIMUM OF 6 INCHES IN DEPTH AND CONSTRUCTED COMPLETELY OUT OF ANGULAR CRUSHED STONE OR CRUSHED GRAVEL MEETING THE GRADATION OF RIDOT M.01.09 TABLE I, COLUMN II.
5. THE AGGREGATE SUB-BASE SHALL BE A MINIMUM OF 6 INCHES IN DEPTH AND CONSTRUCTED COMPLETELY OUT OF ANGULAR GRAVEL BORROW MEETING THE GRADATION OF RIDOT M.01.09 TABLE I, COLUMN I, TYPE IA.
6. AGGREGATE COMPACTION SHALL BE A MINIMUM OF 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY COMPACTED IN 6 INCH LIFTS.
7. MAXIMUM GRADE SHALL BE NO STEEPER THAN 8%.

SCALE: NTS



PROFILE VIEW

LOCATION	LEVEL LIP ELEVATION	CREST WIDTH (FT)	RIP RAP THICKNESS (IN)	RIP RAP GRADATION
BASIN 1	428.80	6.0	12	R-3
BASIN 2	438.70	15.0	12	R-3
BASIN 3	418.00	6.0	12	R-3

NOTES:

- NOTES:
1. CONCRETE CURB SHALL BE SET LEVEL ON A COMPACTED GRAVEL BORROW SUBBASE BEDDING
 2. CURB JOINTS SHALL BE SEALED WITH NON-SHRINK GROUT TO PROVIDE A CONTINUOUS FLAT TOP SURFACE.

SCALE: N



ISLANDER SOLAR, LLC
396 SPRINGFIELD AVENUE, 2ND FLOOR
SUMMIT, NJ 07901

**POMHAM SOLAR
AP 16 LOTS 18 & 19
OFF IRON MINE HILL ROAD
NORTH SMITHFIELD, RI 02896**



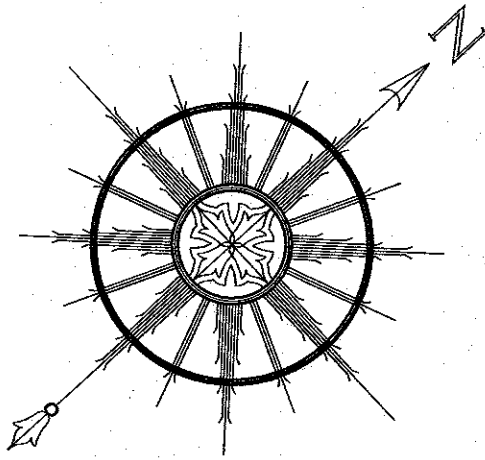
No.	REVISION				DATE	DRAWN	DESIGN	CHECKED BY:	
	DRAWN BY: GJR							DESIGNED BY: JMG	
								CHECKED BY:	

PERMITTING PLANS DETAILS

FOR PERMITTING ONLY

D-3

PROJECT NO: P322-001
DATE OF ISSUE: 1/7/2022
SHEET NO: 14 OF 16



SEE GENERAL NOTES #4

LEGEND	
	PROPERTY LINE
	ABUTTER'S PROPERTY LINE
	TOPOGRAPHIC CONTOUR
	STONE WALL
	TREE LINE
	SHRUB LINE
	WETLANDS LINE
	WETLAND FLAG
	UTILITY POLE
	GUY
	ROCK
	DECIDUOUS TREE
	CONIFER
	BOUND
	DRILL HOLE
	IRON ROD/SPIKE
	SURVEY NAIL

- GENERAL NOTES:**
- EXISTING CONDITIONS ARE THE RESULT OF A FIELD SURVEY BY NORTHEAST ENGINEERS & CONSULTANTS, INC. IN OCTOBER AND DECEMBER 2019.
 - TOPOGRAPHY PROVIDED BY BLUESKY GEOSPATIAL LTD. VIA AERIAL PHOTOGRAMMETRIC METHODS IN DECEMBER 2019.
 - VERTICAL DATUM IS NAVD83.
 - NORTH ARROW AND BASIS OF BEARING BASED ON RTK/GNSS OBSERVATION.

- PLAN REFERENCES:**
- PLAN ENTITLED "DIVISION OF LAND FOR LOUIS A. & FLORENCE R. COULOMBE NORTH SMITHFIELD, R.I.", PREPARED BY BIBEALUT AND FLORENTZ ENGINEERING CO., INC., SCALE 1 INCH = 80 FEET, DATED JANUARY, 1990.
 - PLAN ENTITLED "REDIVISION OF LAND FOR LOUIS A. & FLORENCE R. COULOMBE NORTH SMITHFIELD, R.I.", PREPARED BY BIBEALUT AND FLORENTZ ENGINEERING CO., INC., SCALE 1 INCH = 80 FEET, DATED FEBRUARY, 1990.
 - PLAN ENTITLED "MINOR SUBDIVISION FOR LOUIS COULOMBE NORTH SMITHFIELD, R.I.", PREPARED BY BIBEALUT AND FLORENTZ ENGINEERING CO., INC., SCALE 1 INCH = 80 FEET, DATED FEBRUARY, 1999.
 - PLAN ENTITLED "OXFORD CREEK FINAL PLAN ADMINISTRATIVE SUBDIVISION & MINOR SUBDIVISION OF PLAT 16, LOTS 20, 21, 28 & PLAT 20, LOTS 16 & 35", PREPARED BY MARC N. NYBERG ASSOCIATES, INC., SCALE 1"=100', DATED JULY 17, 2000.

SURVEYOR'S CERTIFICATION:

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RICR-00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON APRIL 28, 2018, AS FOLLOWS:

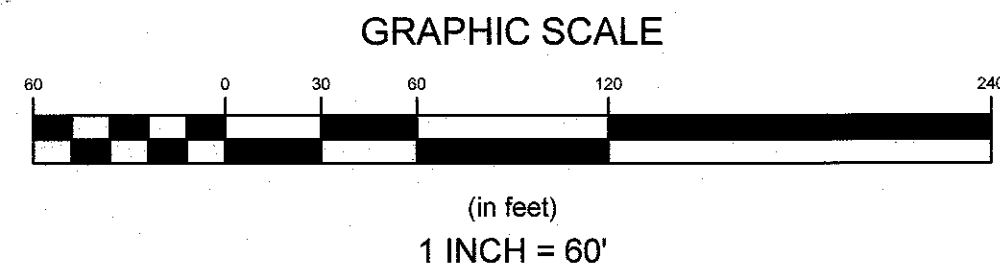
TYPE OF BOUNDARY SURVEY:	MEASUREMENT SPECIFICATION:
LIMITED CONTENT BOUNDARY SURVEY	CLASS 1
TOPOGRAPHIC SURVEY ACCURACY	CLASS T-3

STATEMENT OF PURPOSE:

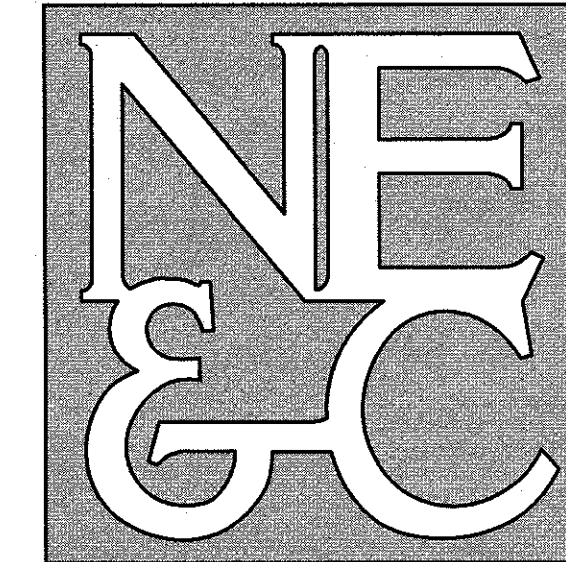
THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:

TO DETERMINE AND MONUMENT THE LOCATION OF THE PROPERTY BOUNDARIES OF A.P. 16, LOTS 18 & 19 AND TO SHOW EXISTING CONDITIONS AT THE SITE.

BY:
MARC S. THAYER
COA NO. A356 12-17-2019 NO. 1889

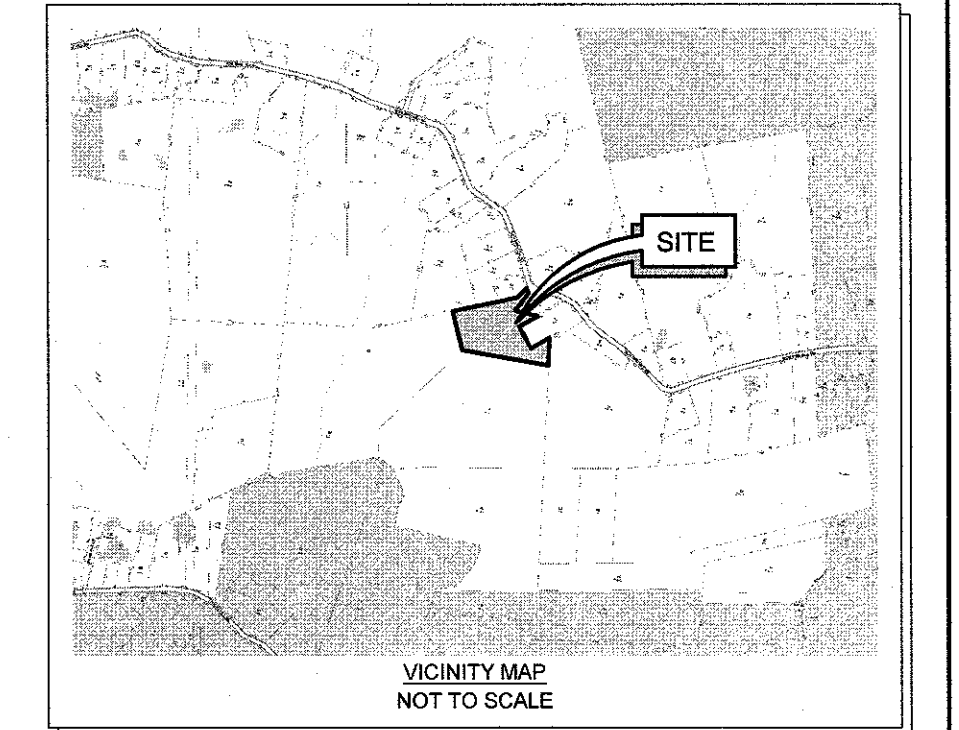


NORTHEAST ENGINEERS
& CONSULTANTS, INC.

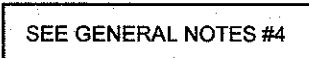


A KNOWLEDGE CORPORATION®

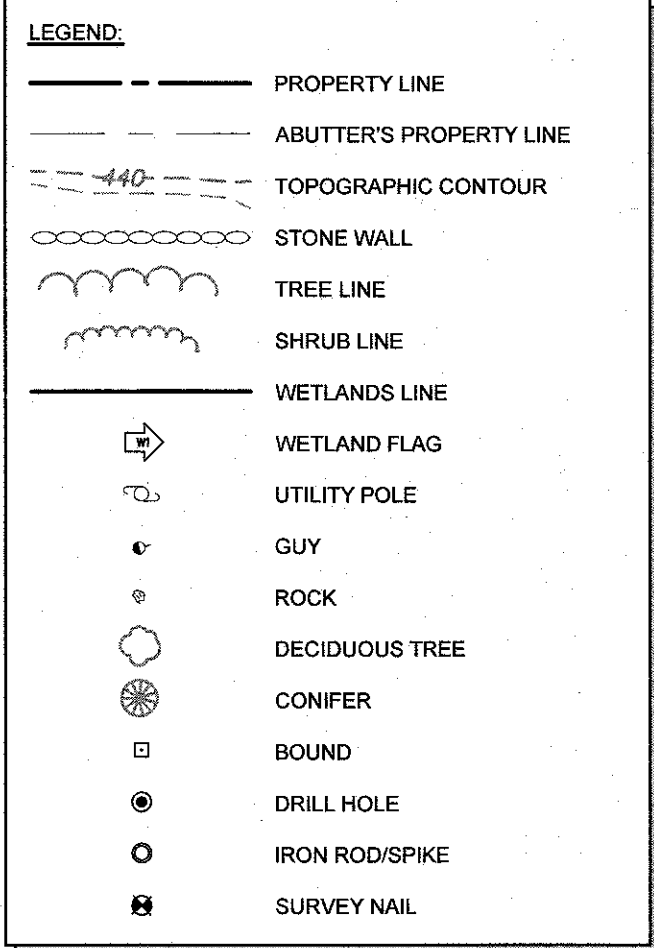
55 JOHN CLARKE ROAD MIDDLETOWN RHODE ISLAND 02842
PHONE (401) 849-0810 FAX (401) 846-4169
WWW.NORTHEASTENGINEERS.COM




No.	Revision	Date	App.
Designed By:	Drawn by: VAL	Checked by: MST	
Scale:	1"=60'	Date:	17DEC2019
Project Title:			
A.P. 16, LOTS 18 & 19 IRON MINE HILL ROAD NORTH SMITHFIELD, RHODE ISLAND			
Client/Owner:			
ESS GROUP, INC., C/O BARBARA CABRAL 10 HEMINGWAY DR., 2ND FLOOR EAST PROVIDENCE, RI 02915			
Issued for:			
Drawing Title:			
LIMITED CONTENT BOUNDARY SURVEY WITH EXISTING CONDITIONS AND TOPOGRAPHY			
Drawing Number:		L-1	
Sheet		1 of 2	
Project Number:		19178.0	
Survey Index:		25 - 16 - 18 & 19	
OWNERSHIP AND USE OF DOCUMENTS: DRAWINGS AND SPECIFICATIONS, AS INSTRUMENTS OF PROFESSIONAL SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF THE ENGINEER. THESE DOCUMENTS ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECTS OR PURPOSES, OR BY ANY OTHER PARTIES, THAN THOSE PROPERLY AUTHORIZED BY CONTRACT, WITHOUT THE EXPRESS AUTHORIZATION OF THE ENGINEER.			



SEE GENERAL NOTES #4

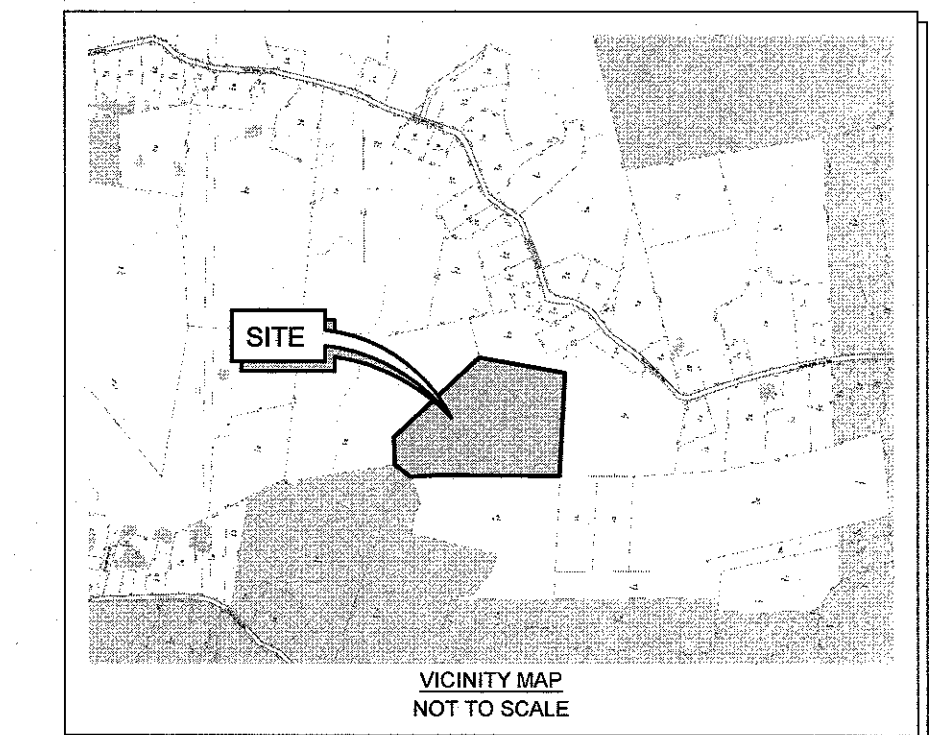


P:\Projects\2019\19178 ESS - N Smithfield\Drawings\Current\19178_L1b.dwg



A KNOWLEDGE CORPORATION

55 JOHN CLARKE ROAD MIDDLETOWN RHODE ISLAND 02842
PHONE (401) 849-0810 FAX (401) 846-4169
WWW.NORTHEASTENGINEERS.COM



ROD LD 439				
No.	Revision		Date	App.
Designed By:	Drawn by:	VAL	Checked by:	MST
Scale:	1"=60'	Date:	17DEC2019	
Project Title:				

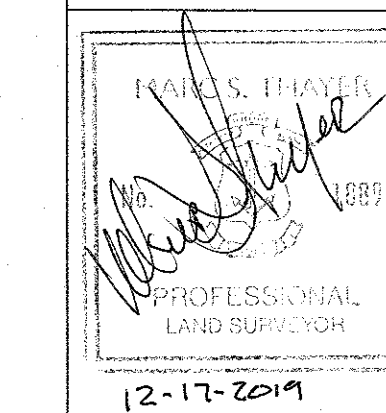
A.P. 16, LOTS 18 & 19
IRON MINE HILL ROAD
NORTH SMITHFIELD, RHODE ISLAND

Client/Owner:
ESS GROUP, INC., C/O BARBARA CABRAL
10 HEMINGWAY DR., 2ND FLOOR
EAST PROVIDENCE, RI 02915

Issued for

Drawing Title:

**LIMITED CONTENT
BOUNDARY SURVEY**
WITH EXISTING CONDITIONS
AND TOPOGRAPHY



Drawing Number	
----------------	--

L-1

Sheet 2 of 2

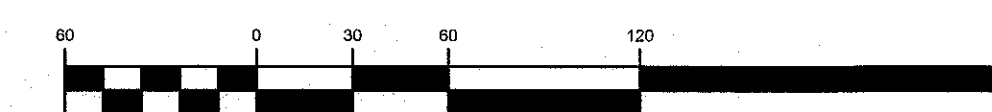
Project Number:
19178.0

Survey Index:

25 - 16 -18 & 19

OWNERSHIP AND USE OF DOCUMENTS: DRAWINGS AND SPECIFICATIONS, AS INSTRUMENTS OF PROFESSIONAL SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF THE ENGINEER. THESE DOCUMENTS ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECTS OR PURPOSES, OR BY ANY OTHER PARTIES, THAN THOSE PROPERLY AUTHORIZED BY CONTRACT, WITHOUT THE EXPRESS AUTHORIZATION OF THE ENGINEER.

GRAPHIC SCALE



(in feet)
1 INCH = 60

