Site Plans

Issued for Local Approvals

Date Issued June 26, 2023

Latest Issue September 22, 2023

Proposed
Large-Scale
Ground-Mounted
Solar Photovoltaic
Installation

0 Route 25 Wareham, MA

Owner

David Fletcher PO Box 829 Plymouth, MA 02362

Applicant

Wareham PV I, LLC 330 Congress Street 6th Floor Boston, MA 02210

Assessor's Map 115: Lot 1000



Sheet Index			
No.	Drawing Title	Latest Issue	
C1.00	Legend and General Notes	June 26, 2023	
C2.00	Overall Site Plan	September 22, 2023	
C2.01-2.03	Layout, Grading, Drainage, and Erosion Control Plan	September 22, 2023	
C3.01-3.02	Site Details	June 26, 2023	

Reference Drawings		
No.	Drawing Title	Latest Issue
Sv-1 - S	v-6 Existing Conditions Plan of Land	January 12, 2021



Designer/Developer/Electrical Engineer

Wareham PV I, LLC 330 Congress Street, 6th Floor Boston, MA 02210 617.377.4301 Prop.

ZONING LINE

PROJECT LIMIT LINE

BUILDING SETBACK

PARKING SETBACK

CONSTRUCTION LAYOUT

RIGHT-OF-WAY/PROPERTY LINE

Legend

Exist.

Exist.

27.35 TC ×

26.85 BC×

132.75 ×

Prop.

27.35 TC ×

26.85 BC×

132.75 ×

CONCRETE

BUILDINGS

RIPRAP

HEAVY DUTY PAVEMENT

CONSTRUCTION EXIT

SPOT ELEVATION

MATCHLINE

TOP OF CURB ELEVATION

BOTTOM OF CURB ELEVATION

TOP & BOTTOM OF WALL ELEVATION

Abbreviations

General	
ABAN	ABANDON
ACR	ACCESSIBLE CURB RAMP
ADJ	ADJUST
APPROX	APPROXIMATE
BIT	BITUMINOUS
BS	BOTTOM OF SLOPE
BWLL	BROKEN WHITE LANE LINE
CONC	CONCRETE
DYCL	DOUBLE YELLOW CENTER LINE
EL	ELEVATION
ELEV	ELEVATION
EX	EXISTING
FDN	FOUNDATION
FFE	FIRST FLOOR ELEVATION
GRAN	GRANITE
GTD	GRADE TO DRAIN
LA	LANDSCAPE AREA
LOD	LIMIT OF DISTURBANCE
MAX	MAXIMUM
MIN	MINIMUM
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PERF	PERFORATED
PROP	PROPOSED
REM	REMOVE
RET	RETAIN
R&D	REMOVE AND DISPOSE
R&R	REMOVE AND RESET
SWEL	SOLID WHITE EDGE LINE
SWLL	SOLID WHITE LANE LINE
TS	TOP OF SLOPE
TYP	TYPICAL
Utility	
Utility CB	CATCH BASIN
	CATCH BASIN CORRUGATED METAL PIPE
СВ	
CB CMP	CORRUGATED METAL PIPE
CB CMP CO	CORRUGATED METAL PIPE CLEANOUT
CB CMP CO DCB	CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN
CB CMP CO DCB DMH	CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE
CB CMP CO DCB DMH CIP	CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE
CB CMP CO DCB DMH CIP COND	CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT
CB CMP CO DCB DMH CIP COND	CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE
CB CMP CO DCB DMH CIP COND DIP FES	CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION
CB CMP CO DCB DMH CIP COND DIP FES FM F&G	CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN
CB CMP CO DCB DMH CIP COND DIP FES FM F&G	CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE
CB CMP CO DCB DMH CIP COND DIP FES FM F&G F&C	CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE FRAME AND COVER
CB CMP CO DCB DMH CIP COND DIP FES FM F&G F&C GI GT	CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE FRAME AND COVER GUTTER INLET GREASE TRAP
CB CMP CO DCB DMH CIP COND DIP FES FM F&G F&C GI GT HDPE	CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE FRAME AND COVER GUTTER INLET GREASE TRAP HIGH DENSITY POLYETHYLENE PIPE
CB CMP CO DCB DMH CIP COND DIP FES FM F&G F&C GI GT HDPE HH	CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE FRAME AND COVER GUTTER INLET GREASE TRAP HIGH DENSITY POLYETHYLENE PIPE HANDHOLE
CB CMP CO DCB DMH CIP COND DIP FES FM F&G F&C GI GT HDPE HH HW	CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE FRAME AND COVER GUTTER INLET GREASE TRAP HIGH DENSITY POLYETHYLENE PIPE HANDHOLE HEADWALL
CB CMP CO DCB DMH CIP COND DIP FES FM F&G F&C GI GT HDPE HH HW HYD	CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE FRAME AND COVER GUTTER INLET GREASE TRAP HIGH DENSITY POLYETHYLENE PIPE HANDHOLE HEADWALL HYDRANT
CB CMP CO DCB DMH CIP COND DIP FES FM F&G F&C GI GT HDPE HH HW HYD	CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE FRAME AND COVER GUTTER INLET GREASE TRAP HIGH DENSITY POLYETHYLENE PIPE HANDHOLE HEADWALL HYDRANT INVERT ELEVATION
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CB CMP CO DCB DMH CIP COND DIP FES FM F&G F&C GI GT HDPE HH HW HYD INV I= LP	CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE FRAME AND COVER GUTTER INLET GREASE TRAP HIGH DENSITY POLYETHYLENE PIPE HANDHOLE HEADWALL HYDRANT INVERT ELEVATION LIGHT POLE
CB CMP CO DCB DMH CIP COND DIP FES FM F&G F&C GI GT HDPE HH HW HYD INV I= LP MES	CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE FRAME AND COVER GUTTER INLET GREASE TRAP HIGH DENSITY POLYETHYLENE PIPE HANDHOLE HEADWALL HYDRANT INVERT ELEVATION LIGHT POLE METAL END SECTION
CB CMP CO DCB DMH CIP COND DIP FES FM F&G F&C GI GT HDPE HH HW HYD INV I= LP MES PIV	CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE FRAME AND COVER GUTTER INLET GREASE TRAP HIGH DENSITY POLYETHYLENE PIPE HANDHOLE HEADWALL HYDRANT INVERT ELEVATION LIGHT POLE METAL END SECTION POST INDICATOR VALVE
CB CMP CO DCB DMH CIP COND DIP FES FM F&G F&C GI GT HDPE HH HW HYD INV I= LP MES PIV PWW	CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE FRAME AND COVER GUTTER INLET GREASE TRAP HIGH DENSITY POLYETHYLENE PIPE HANDHOLE HEADWALL HYDRANT INVERT ELEVATION INVERT ELEVATION LIGHT POLE METAL END SECTION POST INDICATOR VALVE PAVED WATER WAY
CB CMP CO DCB DMH CIP COND DIP FES FM F&G F&C GI GT HDPE HH HW HYD INV I= LP MES PIV PWW PVC	CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE FRAME AND COVER GUTTER INLET GREASE TRAP HIGH DENSITY POLYETHYLENE PIPE HANDHOLE HEADWALL HYDRANT INVERT ELEVATION LIGHT POLE METAL END SECTION POST INDICATOR VALVE PAVED WATER WAY POLYVINYLCHLORIDE PIPE
CB CMP CO DCB DMH CIP COND DIP FES FM F&G F&C GI GT HDPE HH HW HYD INV I= LP MES PIV PWW PVC RCP	CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE FRAME AND COVER GUTTER INLET GREASE TRAP HIGH DENSITY POLYETHYLENE PIPE HANDHOLE HEADWALL HYDRANT INVERT ELEVATION LIGHT POLE METAL END SECTION POST INDICATOR VALVE PAVED WATER WAY POLYVINYLCHLORIDE PIPE REINFORCED CONCRETE PIPE
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CB CMP CO DCB DMH CIP COND DIP FES FM F&G F&C GI GT HDPE HH HW HYD INV I= LP MES PIV PWW PVC RCP R=	CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE FRAME AND COVER GUTTER INLET GREASE TRAP HIGH DENSITY POLYETHYLENE PIPE HANDHOLE HEADWALL HYDRANT INVERT ELEVATION LIGHT POLE METAL END SECTION POST INDICATOR VALVE PAVED WATER WAY POLYVINYLCHLORIDE PIPE REINFORCED CONCRETE PIPE
CB CMP CO DCB DMH CIP COND DIP FES FM F&G F&C GI GT HDPE HH HW HYD INV I= LP MES PIV PWW PVC RCP R= RIM=	CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE FRAME AND COVER GUTTER INLET GREASE TRAP HIGH DENSITY POLYETHYLENE PIPE HANDHOLE HEADWALL HYDRANT INVERT ELEVATION LIGHT POLE METAL END SECTION POST INDICATOR VALVE PAVED WATER WAY POLYVINYLCHLORIDE PIPE RIM ELEVATION
CB CMP CO DCB DMH CIP COND DIP FES FM F&G F&C GI GT HDPE HH HW HYD INV I= LP MES PIV PWW PVC RCP R= RIM=	CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE FRAME AND COVER GUTTER INLET GREASE TRAP HIGH DENSITY POLYETHYLENE PIPE HANDHOLE HEADWALL HYDRANT INVERT ELEVATION LIGHT POLE METAL END SECTION POST INDICATOR VALVE PAVED WATER WAY POLYVINYLCHLORIDE PIPE RIM ELEVATION RIM ELEVATION

UTILITY POLE

Notes

General

- 1. CONTRACTOR SHALL NOTIFY "DIG-SAFE" (1-888-344-7233) AT LEAST 72 HOURS BEFORE EXCAVATING.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
- 3. ACCESSIBLE ROUTES, PARKING SPACES, RAMPS, SIDEWALKS AND WALKWAYS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE FEDERAL AMERICANS WITH DISABILITIES ACT AND WITH STATE AND
- 4. AREAS DISTURBED DURING CONSTRUCTION AND NOT RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) SHALL RECEIVE 6 INCHES LOAM AND SEED.
- 5. WITHIN THE LIMITS OF THE BUILDING FOOTPRINT, THE SITE CONTRACTOR SHALL PERFORM EARTHWORK OPERATIONS REQUIRED UP TO SUBGRADE ELEVATIONS.

LOCAL LAWS AND REGULATIONS (WHICHEVER ARE MORE STRINGENT).

6. WORK WITHIN THE LOCAL RIGHTS-OF-WAY SHALL CONFORM TO LOCAL MUNICIPAL STANDARDS. WORK WITHIN STATE RIGHTS-OF-WAY SHALL CONFORM TO THE LATEST EDITION OF THE STATE

HIGHWAY DEPARTMENTS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.

- 7. 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. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, AND FIRE HYDRANTS, WITHOUT
- 8. TRAFFIC SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 9. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S
- 10. IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, GROUNDWATER, AND 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 TO AVOID FURTHER SPREADING OF THE MATERIAL, AND SHALL NOTIFY THE OWNER IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.
- 11. CONTRACTOR SHALL PREVENT DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS AND CORRECTIVE ACTION IF SUCH OCCURS.
- 12. DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
- 13. CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION TO PREVENT ADVERSE IMPACTS TO OFF SITE AREAS, AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY, AT NO COST TO OWNER.
- 14. THIS PROJECT DISTURBS MORE THAN ONE ACRE OF LAND AND FALLS WITHIN THE NPDES CONSTRUCTION GENERAL PERMIT (CGP) PROGRAM AND EPA JURISDICTION. PRIOR TO THE START OF CONSTRUCTION CONTRACTOR IS TO FILE A CGP NOTICE OF INTENT WITH THE EPA AND PREPARE A STORMWATER POLLUTION PREVENTION PLAN IN ACCORDANCE WITH THE NPDES REGULATIONS. CONTRACTOR SHALL CONFIRM THE OWNER HAS ALSO FILED A NOTICE OF INTENT WITH THE EPA.

Utilities

- 1. THE LOCATIONS, SIZES, AND TYPES OF EXISTING UTILITIES ARE SHOWN AS AN APPROXIMATE REPRESENTATION ONLY. THE OWNER OR ITS REPRESENTATIVE(S) HAVE NOT INDEPENDENTLY VERIFIED THIS INFORMATION AS SHOWN ON THE PLANS. THE UTILITY INFORMATION SHOWN DOES NOT GUARANTEE THE ACTUAL EXISTENCE, SERVICEABILITY, OR OTHER DATA CONCERNING THE UTILITIES, NOR DOES IT GUARANTEE AGAINST THE POSSIBILITY THAT ADDITIONAL UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THE PLANS. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND DETERMINE THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES AND, SHALL CONFIRM THAT THERE ARE NO INTERFERENCES WITH EXISTING UTILITIES AND THE PROPOSED UTILITY ROUTES, INCLUDING ROUTES WITHIN THE PUBLIC RIGHTS OF WAY.
- WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, OR EXISTING CONDITIONS DIFFER FROM THOSE SHOWN SUCH THAT THE WORK CANNOT BE COMPLETED AS INTENDED, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED IN WRITING TO THE OWNER'S REPRESENTATIVE FOR THE RESOLUTION OF THE CONFLICT AND CONTRACTOR'S FAILURE TO NOTIFY PRIOR TO PERFORMING ADDITIONAL WORK RELEASES OWNER FROM OBLIGATIONS FOR ADDITIONAL PAYMENTS WHICH OTHERWISE MAY BE WARRANTED TO RESOLVE THE CONFLICT.
- 3. SET CATCH BASIN RIMS, AND INVERTS OF SEWERS, DRAINS, AND DITCHES IN ACCORDANCE WITH ELEVATIONS ON THE GRADING AND UTILITY PLANS.
- 4. RIM ELEVATIONS FOR DRAIN AND SEWER MANHOLES, WATER VALVE COVERS, GAS GATES, ELECTRIC AND TELEPHONE PULL BOXES, AND MANHOLES, AND OTHER SUCH ITEMS, ARE APPROXIMATE AND SHALL BE SET/RESET AS FOLLOWS:
 - A. PAVEMENTS AND CONCRETE SURFACES: FLUSH
 - B. ALL SURFACES ALONG ACCESSIBLE ROUTES: FLUSH
 - C. LANDSCAPE, LOAM AND SEED, AND OTHER EARTH SURFACE AREAS: ONE INCH ABOVE SURROUNDING AREA AND TAPER EARTH TO THE RIM ELEVATION.

5. THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY

- SERVICES SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY, THE RESPECTIVE UTILITY COMPANY (GAS, TELEPHONE, ELECTRIC, FIRE ALARM, ETC.). FINAL DESIGN LOADS AND LOCATIONS TO BE COORDINATED WITH OWNER AND ARCHITECT.
- 6. CONTRACTOR SHALL MAKE ARRANGEMENTS FOR AND SHALL BE RESPONSIBLE FOR PAYING FEES FOR POLE RELOCATION AND FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE, FIRE ALARM, AND ANY OTHER PRIVATE UTILITIES, WHETHER WORK IS PERFORMED BY CONTRACTOR OR BY THE UTILITIES COMPANY.
- 7. UTILITY PIPE MATERIALS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE PLAN:
 - A. STORM DRAINAGE PIPES SHALL BE HIGH DENSITY POLYETHYLENE (HDPE)
 - B. PIPE INSTALLATION AND MATERIALS SHALL COMPLY WITH THE STATE PLUMBING CODE WHERE APPLICABLE. CONTRACTOR SHALL COORDINATE WITH LOCAL PLUMBING INSPECTOR PRIOR TO BEGINNING WORK.
- 8. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR AND SHALL FURNISH EXCAVATION, INSTALLATION, AND BACKFILL OF ELECTRICAL FURNISHED SITEWORK RELATED ITEMS SUCH AS PULL BOXES, CONDUITS, DUCT BANKS, LIGHT POLE BASES, AND CONCRETE PADS. SITE CONTRACTOR SHALL FURNISH CONCRETE ENCASEMENT OF DUCT BANKS IF REQUIRED BY THE UTILITY COMPANY AND AS INDICATED ON THE DRAWINGS.
- CONTRACTOR SHALL EXCAVATE AND BACKFILL TRENCHES FOR GAS IN ACCORDANCE WITH GAS COMPANY'S REQUIREMENTS.
- 10. ALL DRAINAGE AND SANITARY STRUCTURE INTERIOR DIAMETERS (4' MIN.) SHALL BE DETERMINED BY THE MANUFACTURER BASED ON THE PIPE CONFIGURATIONS SHOWN ON THESE PLANS AND LOCAL MUNICIPAL STANDARDS. FOR MANHOLES THAT ARE 20 FEET IN DEPTH AND GREATER, THE MINIMUM DIAMETER SHALL BE 5 FEET.

Plant Maintenance Notes

- 1. CONTRACTOR SHALL PROVIDE COMPLETE MAINTENANCE OF THE LAWNS AND PLANTINGS. NO IRRIGATION IS PROPOSED FOR THIS SITE. THE CONTRACTOR SHALL SUPPLY SUPPLEMENTAL WATERING FOR NEW LAWNS AND PLANTINGS DURING THE ONE YEAR PLANT GUARANTEE PERIOD.
- CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT FOR THE COMPLETE LANDSCAPE MAINTENANCE WORK. WATER SHALL BE PROVIDED BY THE CONTRACTOR.
- 3. WATERING SHALL BE REQUIRED DURING THE GROWING SEASON, WHEN NATURAL RAINFALL IS BELOW
- 4. WATER SHALL BE APPLIED IN SUFFICIENT QUANTITY TO THOROUGHLY SATURATE THE SOIL IN THE ROOT ZONE OF EACH PLANT.
- 5. CONTRACTOR SHALL REPLACE DEAD OR DYING PLANTS AT THE END OF THE ONE YEAR GUARANTEE PERIOD. CONTRACTOR SHALL TURN OVER MAINTENANCE TO THE FACILITY MAINTENANCE STAFF AT THAT TIME.

Layout and Materials

- 1. DIMENSIONS ARE FROM THE FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.
- 2. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND DETAILS CONTIGUOUS TO THE BUILDING, INCLUDING SIDEWALKS, RAMPS, BUILDING ENTRANCES, STAIRWAYS, UTILITY PENETRATIONS, CONCRETE DOOR PADS, COMPACTOR PAD, LOADING DOCKS, BOLLARDS, ETC.
- 3. PROPOSED BOUNDS AND ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LAND SURVEYOR.
- 4. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL 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.

Demolition

- 1. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING MANMADE SURFACE FEATURES WITHIN THE LIMIT OF WORK INCLUDING BUILDINGS, STRUCTURES, PAVEMENTS, SLABS, CURBING, FENCES, UTILITY POLES, SIGNS, ETC. UNLESS INDICATED OTHERWISE ON THE DRAWINGS. REMOVE AND DISPOSE OF EXISTING UTILITIES, FOUNDATIONS AND UNSUITABLE MATERIAL BENEATH AND FOR A DISTANCE OF 10 FEET BEYOND THE PROPOSED BUILDING FOOTPRINT INCLUDING EXTERIOR COLUMNS.
- EXISTING UTILITIES SHALL BE TERMINATED, UNLESS OTHERWISE NOTED, IN CONFORMANCE WITH LOCAL, STATE AND INDIVIDUAL UTILITY COMPANY STANDARD SPECIFICATIONS AND DETAILS. THE CONTRACTOR SHALL COORDINATE UTILITY SERVICE DISCONNECTS WITH THE UTILITY REPRESENTATIVES.
- 3. CONTRACTOR SHALL DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND STATUTES.
- THE DEMOLITION LIMITS DEPICTED IN THE PLANS IS INTENDED TO AID THE CONTRACTOR DURING THE BIDDING AND CONSTRUCTION PROCESS AND IS NOT INTENDED TO DEPICT EACH AND EVERY ELEMENT OF DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THE DETAILED SCOPE OF DEMOLITION BEFORE SUBMITTING ITS BID/PROPOSAL TO PERFORM THE WORK AND SHALL MAKE NO CLAIMS AND SEEK NO ADDITIONAL COMPENSATION FOR CHANGED CONDITIONS OR UNFORESEEN OR LATENT SITE CONDITIONS RELATED TO ANY CONDITIONS DISCOVERED DURING EXECUTION OF THE WORK.
- 5. UNLESS OTHERWISE SPECIFICALLY PROVIDED ON THE PLANS OR IN THE SPECIFICATIONS, THE ENGINEER HAS NOT PREPARED DESIGNS FOR AND SHALL HAVE NO RESPONSIBILITY FOR THE PRESENCE, DISCOVERY, REMOVAL, ABATEMENT OR DISPOSAL OF HAZARDOUS MATERIALS, TOXIC WASTES OR POLLUTANTS AT THE PROJECT SITE. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY CLAIMS OF LOSS, DAMAGE, EXPENSE, DELAY, INJURY OR DEATH ARISING FROM THE PRESENCE OF HAZARDOUS MATERIAL AND CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ANY CLAIMS MADE IN CONNECTION THEREWITH. MOREOVER, THE ENGINEER SHALL HAVE NO ADMINISTRATIVE OBLIGATIONS OF ANY TYPE WITH REGARD TO ANY CONTRACTOR AMENDMENT INVOLVING THE ISSUES OF PRESENCE, DISCOVERY, REMOVAL, ABATEMENT OR DISPOSAL OF ASBESTOS OR OTHER HAZARDOUS MATERIALS.

Erosion Control

- 1. PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED IN FEDERAL, STATE, AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.
- 2. CONTRACTOR SHALL INSPECT AND MAINTAIN EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ON A WEEKLY BASIS (MINIMUM) OR AS REQUIRED PER THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL ADDRESS DEFICIENCIES AND MAINTENANCE ITEMS WITHIN TWENTY-FOUR HOURS OF INSPECTION. CONTRACTOR SHALL PROPERLY DISPOSE OF SEDIMENT SUCH THAT IT DOES NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.
- 3. CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT.
- 4. CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF TIME BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED TO PREVENT EROSION. REFER TO PROJECT SWPPP FOR SPECIFIC TIMEFRAMES.
- 5. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, CONTRACTOR SHALL REMOVE AND DISPOSE OF SEDIMENT CONTROL MEASURES AND CLEAN SEDIMENT AND DEBRIS FROM ENTIRE DRAINAGE AND SEWER SYSTEMS.

Existing Conditions Information

- 1. BASE PLAN: "EXISTING CONDITIONS PLAN OF LAND" DATED JANUARY 12 2021, PREPARED BY VHB.
- 2. TOPOGRAPHY: ELEVATIONS ARE BASED ON NAVD 1988.

Document Use

- 1. THESE PLANS AND CORRESPONDING CADD DOCUMENTS ARE INSTRUMENTS OF PROFESSIONAL SERVICE, AND SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE OTHER THAN FOR WHICH IT WAS CREATED WITHOUT THE EXPRESSED, WRITTEN CONSENT OF VHB. ANY UNAUTHORIZED USE, REUSE, MODIFICATION OR ALTERATION, INCLUDING AUTOMATED CONVERSION OF THIS DOCUMENT SHALL BE AT THE USER'S SOLE RISK WITHOUT LIABILITY OR LEGAL EXPOSURE TO VHB.
- CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS, BUT SHALL VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.
- 3. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.

Planting Notes

- 1. ALL PROPOSED PLANTING LOCATIONS SHALL BE STAKED AS SHOWN ON THE PLANS FOR FIELD REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- CONTRACTOR SHALL VERIFY LOCATIONS OF ALL BELOW GRADE AND ABOVE GROUND UTILITIES AND NOTIFY OWNERS REPRESENTATIVE OF CONFLICTS.
- NO PLANT MATERIALS SHALL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE OF ANY CONFLICT.
- 4. A 3-INCH DEEP MULCH PER SPECIFICATION SHALL BE INSTALLED UNDER ALL TREES AND SHRUBS, AND IN ALL PLANTING BEDS, UNLESS OTHERWISE INDICATED ON THE PLANS, OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
- 5. ALL TREES SHALL BE BALLED AND BURLAPPED, UNLESS OTHERWISE NOTED IN THE DRAWINGS OR SPECIFICATION, OR APPROVED BY THE OWNER'S REPRESENTATIVE.
- 6. FINAL QUANTITY FOR EACH PLANT TYPE SHALL BE AS GRAPHICALLY SHOWN ON THE PLAN. THIS NUMBER SHALL TAKE PRECEDENCE IN CASE OF ANY DISCREPANCY BETWEEN QUANTITIES SHOWN ON THE PLANT LIST AND ON THE PLAN. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN THE NUMBER OF PLANTS SHOWN ON THE PLANT LIST AND PLANT LABELS PRIOR TO BIDDING.
- 7. ANY PROPOSED PLANT SUBSTITUTIONS MUST BE REVIEWED BY LANDSCAPE ARCHITECT AND APPROVED IN WRITING BY THE OWNER'S REPRESENTATIVE.
- 8. ALL PLANT MATERIALS INSTALLED SHALL MEET THE SPECIFICATIONS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN AND CONTRACT DOCUMENTS.
- 9. ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING DATE OF FINAL

SEEDED OR MULCHED AS DIRECTED BY OWNER'S REPRESENTATIVE.

- AREAS DESIGNATED "LOAM & SEED" SHALL RECEIVE MINIMUM 6" OF LOAM AND SPECIFIED SEED MIX. LAWNS OVER 2:1 SLOPE SHALL BE PROTECTED WITH EROSION CONTROL FABRIC.
- 11. ALL DISTURBED AREAS NOT OTHERWISE NOTED ON CONTRACT DOCUMENTS SHALL BE LOAM AND
- 12. THIS PLAN IS INTENDED FOR PLANTING PURPOSES. REFER TO SITE / CIVIL DRAWINGS FOR ALL OTHER SITE CONSTRUCTION INFORMATION.



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101 Walnut Street



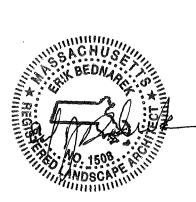
Proposed Large-Scale Ground-Mounted Solar Photovoltaic Installation O Route 25

Wareham, MA

No.	Revision	Date	Appvd

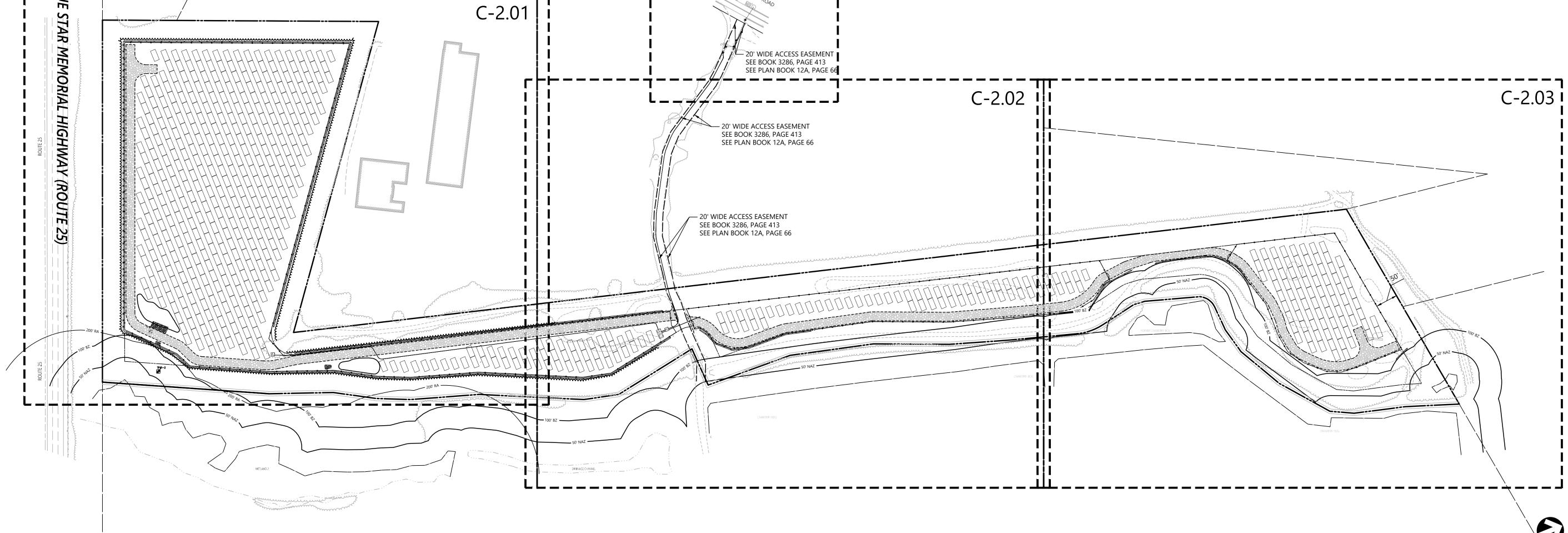
Issued for	Date
	Date
Designed by LMT	Checked by SKE

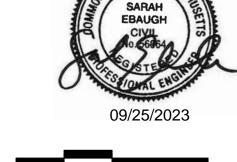
Legend and
General Notes



C1.00







NORTHEAST SOLAR POLLINATOR 3' MIX

% SEED	BOTANICAL NAME	COMMON NAME
35.0%	Elymus canadensis	Canada Wildrye
35.0%	Schizachyrium scoparium 'Camper'	Little Bluestem, 'Camper'
10.0%	Dichanthelium sphaerocarpon	Roundseed Panicgrass
4.0%	Asclepias tuberosa	Butterfly Milkweed
4.0%	Chamaecrista fasciculata	Patridge Pea
4.0%	Coreopsis lanceolata	Lanceleaf Coreopsis
4.0%	Rudbeckia hirta	Black-eyed Susan
0.9%	Pycnanthemum tenuifolium	Narrowleaf Mountain Mint
0.7%	Aster oblongifolius	Aromatic Aster
0.5%	Aster prenanthoides	Zigzag Aster
0.5%	Penstemon digitalis	Tall White Beardtongue
0.5%	Tradescantia ohiensis	Ohio Spiderwort
0.5%	Zizia aurea	Golden Alexanders
0.3%	Oenothera fruticosa var. fruticosa	Sundrops
0.1%	Solidago nemoralis	Gray Goldenrod

m

SEEDING RATE TO BE 40 LBS/ACRE USING A SEED DRILL WITH AN ADDITIONAL 30 LBS/ACRE OF COVER CROP. REFER TO "SOLAR ARRAY SEEDING SCHEDULE AND PROTOCOLS, WAREHAM, MASSACHUSETTS" DOCUMENT REVISED JUNE 14, 2023.

Zoning Summary Chart

% SEED	BOTANICAL NAME	COMMON NAME	Zoning District(s):	Residential 130	(R-130)
35.0%	Elymus canadensis	Canada Wildrye	Zoning Regulation Requirements	Required ¹	Provided
35.0%	Schizachyrium scoparium 'Camper'	Little Bluestem, 'Camper' Roundseed Panicgrass	MINIMUM LOT AREA ²	≥3 Acres	22.4 Acres
10.0% 4.0%	Dichanthelium sphaerocarpon Asclepias tuberosa	Butterfly Milkweed	FRONTAGE ³	Not Applicable	Not Applicable
4.0%	Chamaecrista fasciculata	Patridge Pea Lanceleaf Coreopsis	MINIMUM FRONT YARD SETBACK	50 Feet	Not Applicable
4.0% 4.0%	Coreopsis lanceolata Rudbeckia hirta	Black-eyed Susan	MINIMUM SIDE YARD SETBACK	50 Feet	50 Feet
0.9%	Pycnanthemum tenuifolium	Narrowleaf Mountain Mint Aromatic Aster	MINIMUM REAR YARD SETBACK	50 Feet	Not Applicable
0.7% 0.5%	Aster oblongifolius Aster prenanthoides	Zigzag Aster	MAXIMUM BUILDING HEIGHT ⁴	35 Feet	Not Applicable
0.5% 0.5%	Penstemon digitalis Tradescantia ohiensis	Tall White Beardtongue Ohio Spiderwort Golden Alexanders	(1) Zoning requirements as specified in "Zoning By-Lav 2018) (hereinafter "Zoning By-Laws").	vs Town of Wareham Massac	
0.5% 0.3%	Zizia aurea Oenothera fruticosa var. fruticosa	Sundrops	(2) Per Section 594.1.1 of Zoning By-Laws.		
0.1%	Solidago nemoralis	Gray Goldenrod	(3) Per Section 611 of Zoning By-Laws, R-130 district m	ninimum frontage requireme	nt is not applicable
tal 100%			because proposed project is not "principal building" or Article 16 of Zoning By-Laws.	"accessory building" as thos	se terms are defined in
OTE: EDING RAT	TE TO BE 40 LBS/ACRE USING A SEED DRILL WITH AN		(4) Per Section 611 of Zoning By-Laws, R-130 district m because proposed project is not "principal building" or Article 16 of Zoning By-Laws.		

Notes

- O Route 25 (Map 115, Lot 1000) (the "Project Parcel") is located outside the 100-year flood plain as noted on the FEMA Flood Insurance Rate Map (FIRM) Panels Number 25023C0487K & 25023C0489L last revised July 6, 2021.
 Access to the Project Parcel is via an existing 20-foot wide access easement from Charge Pond Road taken by MassDOT predecessor Massachusetts Department of Public Works on behalf of certain landowners (including the owner of the Project Parcel) in 1966 in connection with the development of Route 25 as a limited access highway. See Layout 5560 and Order of Taking dated April 14, 1966, recorded at the Plymouth County Registry of Deeds in Book 3286, Page 413 and Plan Book 12A, Page 66.

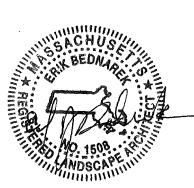
Proposed Large-Scale Ground-Mounted Solar **Photovoltaic Installation**

0 Route 25 Wareham, MA

No.	Revision	Date	Арр
1	Response to Comments	09/22/2023	Sk

Local Approvals	June 26, 202
Issued for	Date
Designed by LMT	Checked by SKE

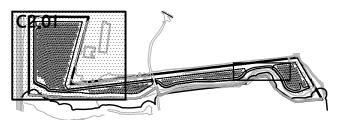
Overall Site Plan



15225.01









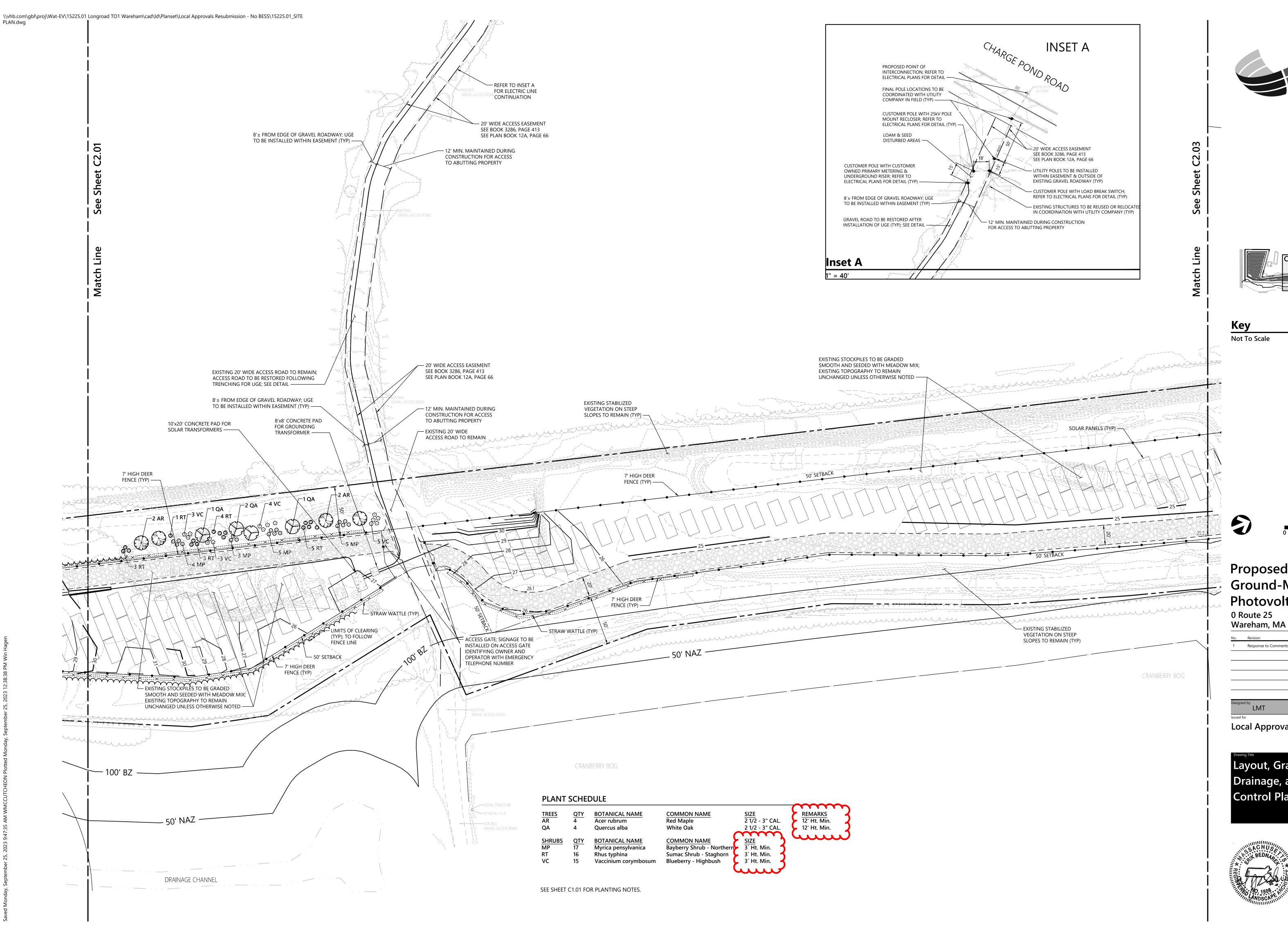
Proposed Large-Scale **Ground-Mounted Solar** Photovoltaic Installation

09/22/2023 SKE

June 26, 2023

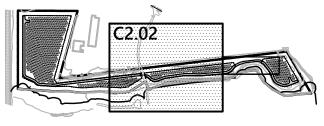
Layout, Grading, Drainage, and Erosion







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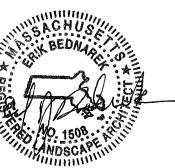
Proposed Large-Scale **Ground-Mounted Solar Photovoltaic Installation**

No.	Revision	Date	Appvd.
1	Response to Comments	09/22/2023	SKE

Designed by	Checked by
LMT	SKE
Issued for	Date
Local Approvals	June 26, 2023

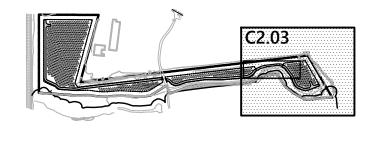
Layout, Grading,

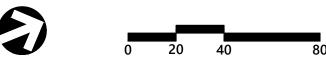
Drainage, and Erosion **Control Plan**





617.924.1770





Proposed Large-Scale **Ground-Mounted Solar** Photovoltaic Installation

0 Route 25 Wareham, MA

June 26, 2023

Local Approvals

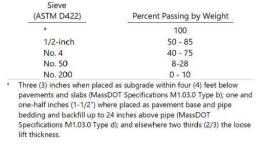
Layout, Grading, Drainage, and Erosion **Control Plan**



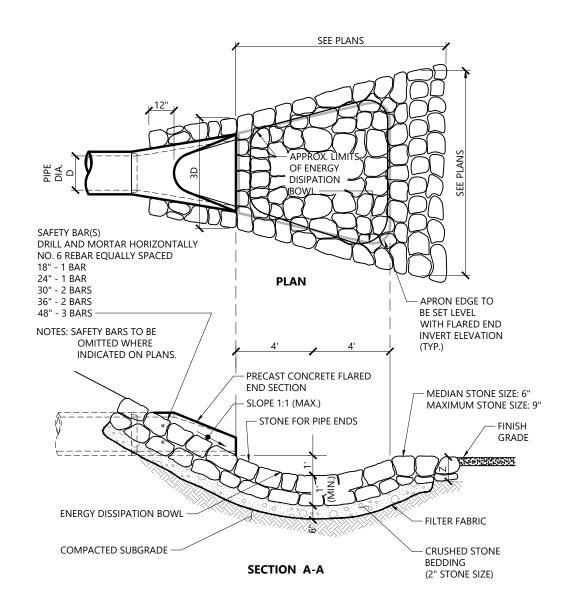
- 1. SIZE OF EQUIPMENT PAD TO BE AS INDICATED ON PLANS.
- 2. CONSTRUCTION JOINTS SHALL BE SPACED NO MORE THAN 30 FEET ON CENTER AND SHALL BE
- 3. SHOWN FOR REFERENCE; FINAL PAD DESIGN TO BE PROVIDED PRIOR TO CONSTRUCTION

SPECIFICATIONS

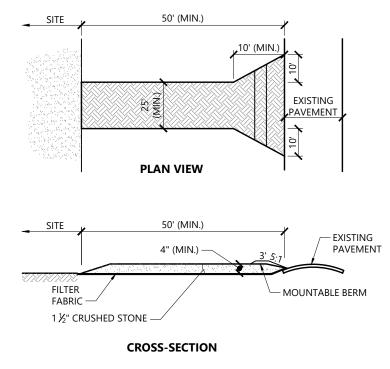
1. GRAVEL SHALL CONSIST OF INERT MATERIAL THAT IS HARD, DURABLE STONE AND COARSE SAND, FREE FROM LOAM, CLAY, SURFACE COATINGS AND DELETERIOUS MATERIALS, AND SHALL CONFORM TO THE FOLLOWING GRADATION:



Concrete Pad N.T.S. Source: VHB LD_712A

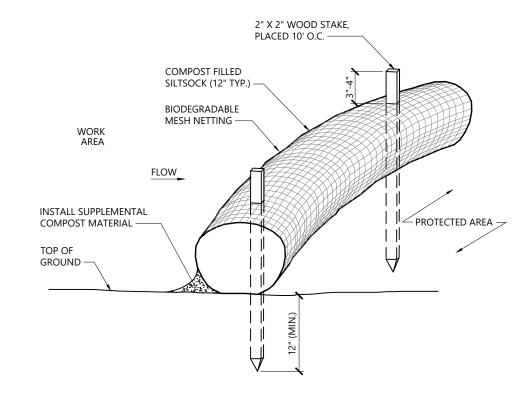






- 1. EXIT WIDTH SHALL BE A TWENTY-FIVE (25) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS
- THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. BERM SHALL BE PERMITTED. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED.
- STABILIZED CONSTRUCTION EXIT SHALL BE REMOVED PRIOR TO FINAL FINISH MATERIALS BEING INSTALLED.

Stabilized Con	1/16	
N.T.S.	Source: VHB	LD_682

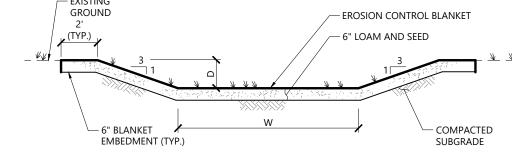


1. SILTSOCK SHALL BE FILTREXX SILTSOXX, OR APPROVED EQUAL. 2. SILTSOCKS SHALL OVERLAP A MINIMUM OF 12 INCHES.

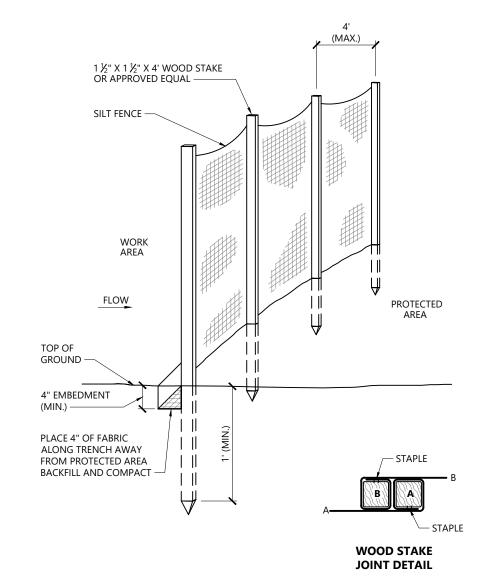
COLLECTED AND DISPOSED OF OFFSITE.

- 3. SILTSOCK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM
- EVENTS, AND REPAIR OR REPLACEMENT SHALL BE PERFORMED PROMPTLY 4. COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY THE
- 5. IF NON BIODEGRADABLE NETTING IS USED THE NETTING SHALL BE

Siltsock - Sediment Control Barrier	1/16



Grassed Swale Source: VHB



Silt Fence Barrier
N.T.S. LD_650 Source: VHB

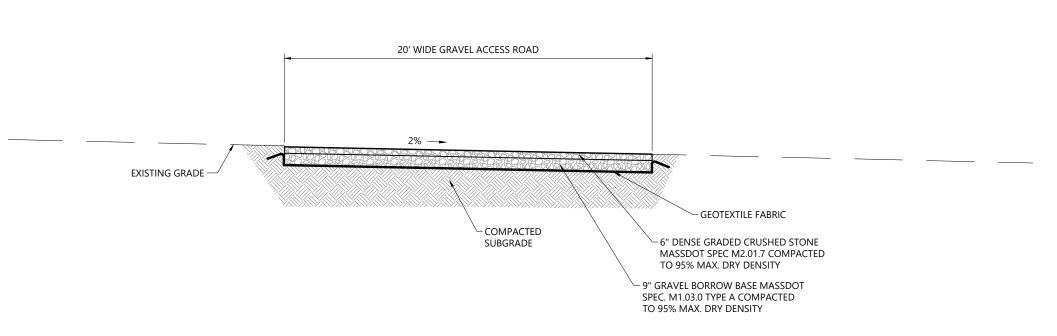
PAVEMENT SECTION LANDSCAPED AREA

PAVED AREA SEE APPLICABLE

COMPACTED GRANULAR FILL —

Utility Trench

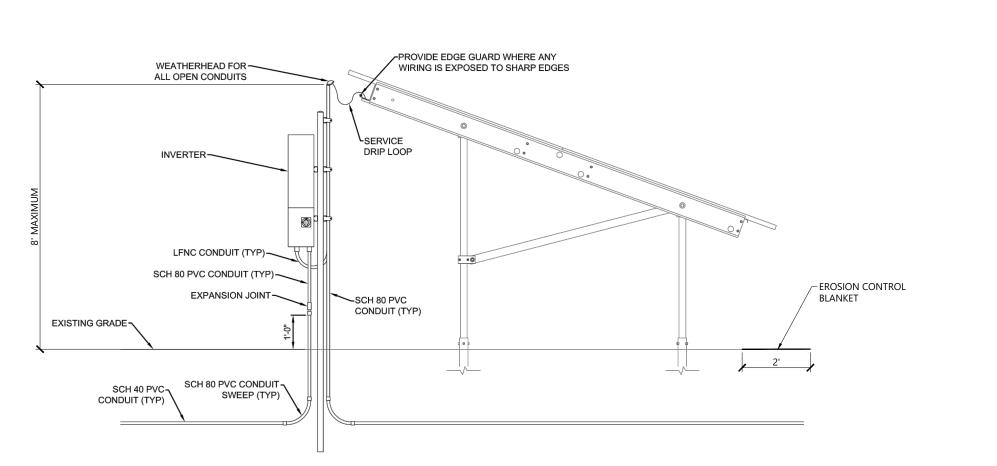
N.T.S.



- . GRAVEL ACCESS ROAD SHALL HAVE A SURFACE BEARING CAPACITY OF 20,000 LBS (MIN).
- STONE MATTRESS TO BE INSTALLED AS NEEDED TO PROVIDE FOR ADEQUATE DRAINAGE OF SURFACE RUNOFF AND PREVENT EROSION. DETAIL TO BE USED FOR INTERNAL ACCESS DRIVE THROUGHOUT SITE AS WELL AS RECONSTRUCTION OF GRAVEL ROAD WITHIN ACCESS EASEMENT TO

Gravel Access Road - Typical Section

Source: VHB



SHOWN FOR REFERENCE ONLY. FINAL PANEL AND RACKING DESIGN DETERMINED BY ELECTRICAL ENGINEER/SOLAR INSTALLER

Source: Ameresco Inc.

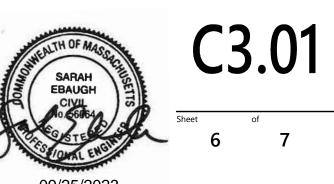
Inverter and Array Detail (Side)

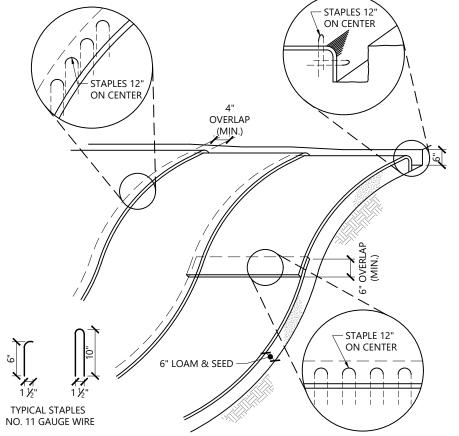
Proposed Large-Scale **Ground-Mounted Solar Photovoltaic Installation** 0 Route 25 Wareham, MA

No.	Revision	Date	Арр

Local Approvals	June 26, 202
Issued for	Date
Designed by LMT	Checked by SKE







- 1. BEGIN AT THE TOP OF BLANKET INSTALLATION AREA BY ANCHORING BLANKET IN A 6" DEEP TRENCH BACKFILL AND COMPACT TRENCH AFTER STAPLING.
- 2. ROLL THE BLANKET DOWN THE SWALE IN THE DIRECTION OF THE WATER FLOW. 3. THE EDGES OF BLANKETS MUST BE STAPLED WITH APPROX. 4 INCH OVERLAP WHERE 2

OR MORE STRIP WIDTHS ARE REQUIRED.

- 4. WHEN BLANKETS MUST BE SPLICED DOWN THE SWALE, PLACE UPPER BLANKET END
- OVER LOWER END WITH 6 INCH (MIN.) OVERLAP AND STAPLE BOTH TOGETHER.
- 5. METHOD OF INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS. 6. EROSION CONTROL BLANKETS SHALL BE USED IN ALL AREAS WHERE SLOPES EXCEED 3:1.

Erosion Contr	ol Blanket Slope Installation	1/16
N.T.S.	Source: VHB	LD 680

Outlet Control Structure

COMPACTED MATERIAL

BY GEOTECHNICAL ENGINEER -

SEE NOTE 1. -

OUTLET

COMPACTED

COMPACTED GRAVEL -

COMPACTED SUBGRADE —

AS RECOMMENDED

1. PROVIDE OPENINGS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE

2. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.

OF PIPE. MORTAR ALL PIPE CONNECTIONS.

TRASH GRATE, GALVANIZED STEEL

OPENING SIZE)

NORMAL WATER

CEMENT CONCRETE

OR APPROVED EQUAL (2" X 2" MAX.

> — DEPTH AND SURFACE TREATMENT VARIES WARNING TAPE - HAND TAMPED HAUNCHING COMPACTED BEDDING SUBGRADE 1. WHERE UTILITY TRENCHES ARE CONSTRUCTED THROUGH DETENTION BASIN BERMS OR OTHER SUCH SPECIAL SECTIONS, PLACE TRENCH BACKFILL WITH MATERIALS SIMILAR TO THE

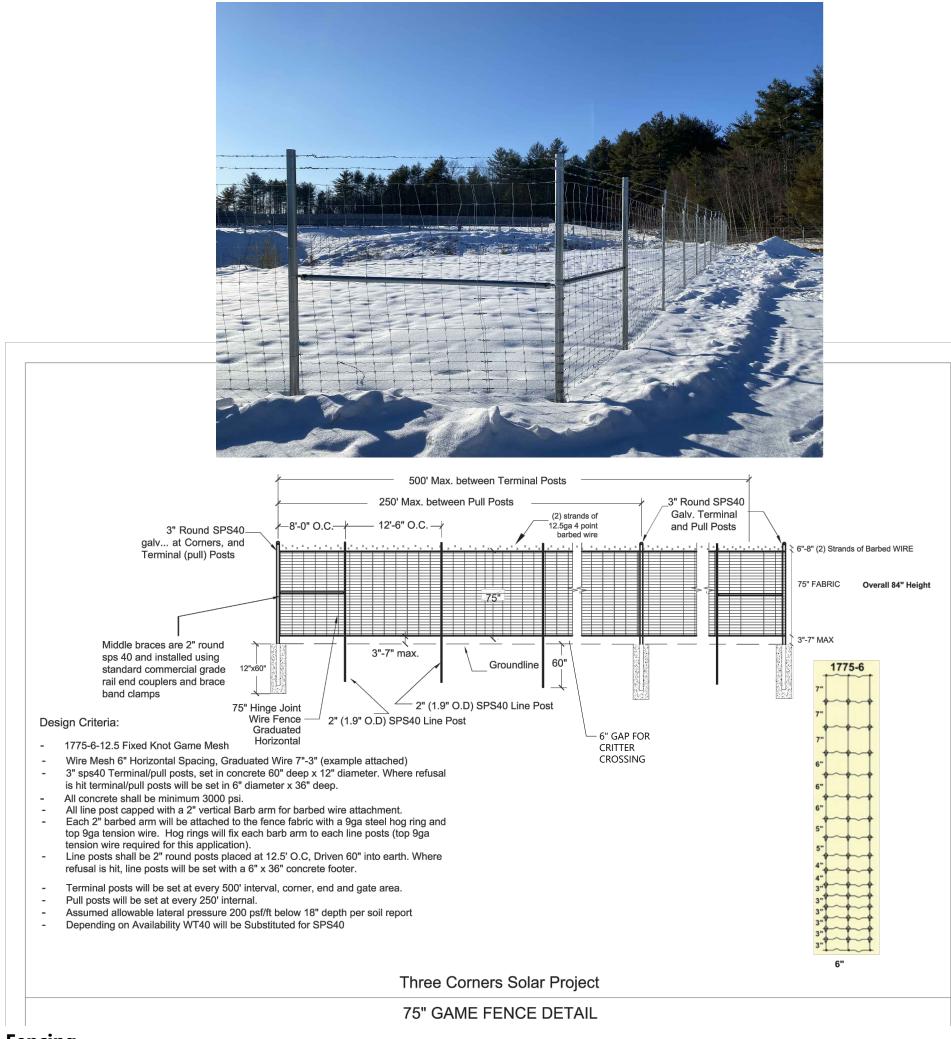
SPECIAL SECTION REQUIREMENTS. 2. USE METALLIC TRACING/WARNING TAPE OVER ALL PIPES.

Source: VHB

LD_300

15225.01

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Deer Fencing
N.T.S.

GRAVEL SECTION SEE APPLICABLE GRAVEL ROAD DETAIL LANDSCAPED AREA ORDINARY BORROW; 90% COMPACTED LOAM & MEADOW MIX WITHIN LANDSCAPE AREA - WARNING TAPE - FIBER OPTIC CABLE IN (3) MVAC CONDUCTORS -- COMPACTED SUBGRADE

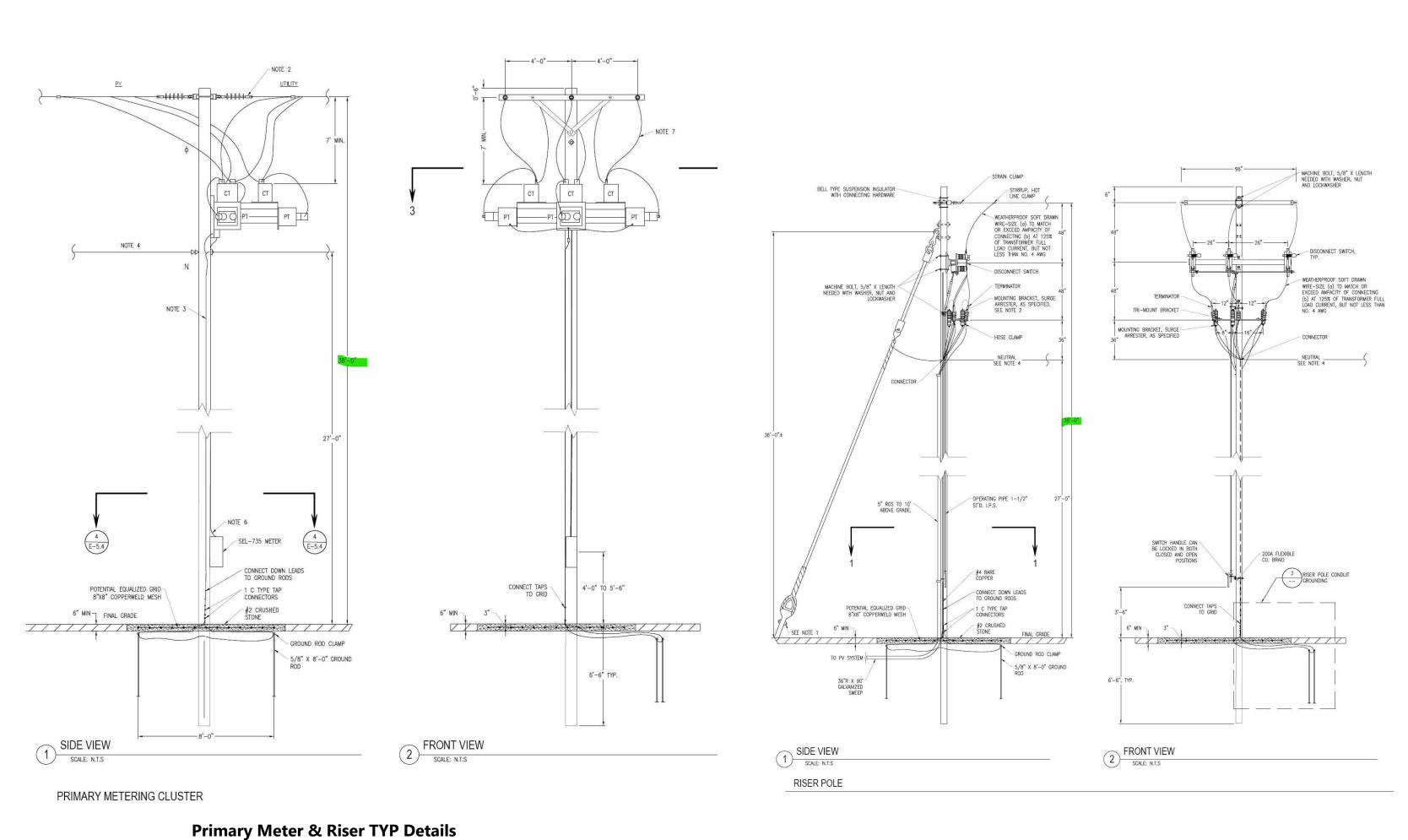
> WHERE UTILITY TRENCHES ARE CONSTRUCTED THROUGH DETENTION BASIN BERMS OR OTHER SUCH SPECIAL SECTIONS, PLACE TRENCH BACKFILL WITH MATERIALS SIMILAR TO THE SPECIAL SECTION REQUIREMENTS. 2. USE METALLIC TRACING/WARNING TAPE OVER ALL PIPES.

FILTER FABRIC WHERE EARTH
EMBANKMENT AND LOW PERMEABILITY
CORE MATERIAL ABUT THE GABIONS BERM WIDTH SEE PLAN EMBANKMENT AND **EMBANKMENT AND** LOW PERMEABILITY LOW PERMEABILITY CORE MATERIAL CORE MATERIAL DETENTION LOAM AND SOD BASIN **FOREBAY** OVER COMPACTED GABION BASKETS COMMON FILE COMPACTED **SECTION B-B** LOW PERMEABILITY CORE MATERIAL BEYOND GABION — 6" LOAD AND SEED -TOP OF BERM PLAN DIRECTION OF FLOW TOP OF FOREBAY BERM TOP OF GABION 1. CORE MATERIAL SHALL HAVE A PERMEABILITY OF LESS SEDIMENT SEDIMENT SEDIMENT DETENTION THAN 1X10^-5 INCHES PER HOUR. BASIN 2. THE BERM SECTION MAY BE BASED ON THE RESULTS OF TOP OF BERM FURTHER GEOTECHNICAL INVESTIGATIONS. 3. COMBINE GABIONS TO MEET WIDTH AND LENGTH 6" EMBEDMENT DIMENSIONS AND ELEVATIONS SHOWN ON PLAN. TYPICAL GABION IS 3' WIDE x 3' HIGH x 3' LONG. 4. PROVIDE FILTER FABRIC TO PREVENT EARTH COMPACTED EMBANKMENT FROM SILTING INTO GABIONS. COMMON FILL / — COMPACTED ORDINARY BORROW -SUBGRADE 5. SEE SPECIFICATIONS FOR EMBANKMENT MATERIALS. COMPACTED LOW 6. GABION ROCK TO BE PER EARTHWORK SPECIFICATIONS; PERMEABILITY STONE FOR PIPE ENDS WITH CORE MATERIAL —— SIZE D₅₀=50. SECTION A-A **Sediment Forebay Berm** LD_164 Source: VHB

- HARDWOOD STAKES OR DEADMEN (TYP.) — TREE PIT STAKING IS NOT REQUIRED FOR TREES UNDER 10' HIGH. 2. PAINT TOP OF STAKES ORANGE OR REFLECTIVE RED TAPE. – NYLON TREE TIE WEBBING – TRUNK FLARE SHALL BE SET 2" ABOVE THE ESTABLISHED FINISHED GRADE — 3" BARK MULCH, DO NOT PLACE MULCH WITHIN 3" OF TRUNK – 2"X2" HARDWOOD STAKE OR TIGHTEN AS SHOWN - SLOPE TO FORM A 3" HIGH SAUCER. – PLANT BACKFILL MIXTURE. - UNTIE AND CUT AWAY BURLAP FROM 1/3 OF ROOTBALL (MIN.); IF SYNTHETIC WRAP IS USED, REMOVE COMPLETELY - SIT ROOTBALL ON EXISTING UNDISTURBED SOIL OR ON COMPACTED SUBGRADE HOLE - THREE TIMES ROOTBALL DIAMETER WITH SLOPED SIDES **Evergreen Tree Planting**

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LD_604



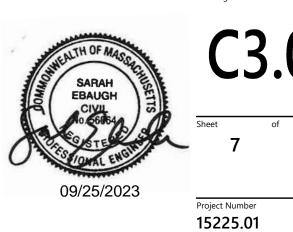
Source: Longroad

Proposed Large-Scale **Ground-Mounted Solar Photovoltaic Installation** 0 Route 25

Wareham, MA

LMT June 26, 2023 **Local Approvals**

Site Details



Underground Electric Trench



General Notes

- 1) THE PROPERTY LINES SHOWN ON THIS PLAN ARE BASED UPON AN ACTUAL FIELD SURVEY CONDUCTED BY VHB, INC. IN DECEMBER, 2020 AND FROM DEEDS AND PLANS OF RECORD.
- 2) THE EXISTING CONDITIONS SHOWN ON THIS PLAN WERE DEVELOPED FROM A COMBINED EFFORT OF AERIAL PHOTOGRAMMETRIC AND LIDAR METHOD MAPPING BY EASTERN TOPOGRAPHICS, INC., BASED ON AERIAL PHOTOGRAPHS TAKEN ON NOVEMBER 29, 2020 AND FROM AN ACTUAL ON-THE-GROUND INSTRUMENT SURVEY PERFORMED BY VHB, INC. IN MAY, 2021.
- 3) THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED ON FIELD OBSERVATIONS AND INFORMATION OF RECORD. THEY ARE NOT WARRANTED TO BE EXACTLY LOCATED NOR IS IT WARRANTED THAT ALL UNDERGROUND UTILITIES OR OTHER STRUCTURES ARE SHOWN ON THIS PLAN.
- 4) HORIZONTAL DATUM IS BASED ON MASS. GRID SYSTEM, NAD 1983. ELEVATIONS SHOWN ON THIS PLAN REFER TO NAVD OF 1988.
- 5) THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT AND MAY BE SUBJECT TO ADDITIONAL INFORMATION DISCLOSED IN SUCH.
- 6) THE WETLANDS SHOWN ON THIS PLAN WERE FLAGGED AND LOCATED (USING GPS) BY VHB ENVIRONMENTAL DEPARTMENT IN FEBRUARY, 2020.

Record Owner

DAVID FLETCHER MAP 115 LOT 1000 BOOK 34514, PAGE 232



101 Walnut Street PO Box 9151 Watertown, MA 02471 617.924.1770

Legend

D DRAIN MANHOLE ■ CATCH BASIN S SEWER MANHOLE © ELECTRIC MANHOLE TELEPHONE MANHOLE MANHOLE HH□ HAND HOLE WATER GATE FIRE HYDRANT

GAS GATE ■ BOLLARD w/LIGHT → STREET SIGN □ LIGHT POLE -O- UTILITY POLE

GUY POLE GUY WIRE MONITORING WELL FLOOD LIGHT

WELL WELL سلا MARSH F.F.E.=45.27'
FINISHED FLOOR ELEVATION

CNO COULD NOT OPEN NPV NO PIPES VISIBLE DYL DOUBLE YELLOW LINE DWL DASHED WHITE LINE

SYL SINGLE YELLOW LINE LSA LANDSCAPED AREA EDGE OF PAVEMENT CONCRETE CURB VERTICAL GRANITE CURB SLOPED GRANITE EDGE BITUMINOUS BERM

BITUMINOUS CURB T GUARD RAIL ---- DRAINAGE LINE — — — — SEWER LINE

----- E ----- UNDERGROUND ELECTRIC — G — GAS LINE OOOOOO STONE WALL TREE LINE

—— 100'BZ ———— 100-FT BUFFER ZONE ----- 100'RA ------ 100-FT RIVER FRONT AREA ———— 200'ra ——— 200-ft RIVER FRONT AREA AF1-100 · LIMIT MEAN ANNUAL HIGH WATER
LIMIT OF BANK
WEGETATED WETLAND BOUNDARY

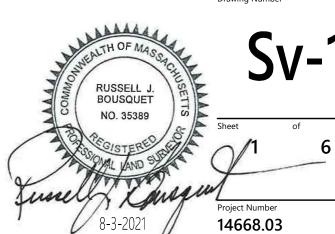
Proposed Solar Array

Route 25

Wareham, Massachusetts

January 12, 2021







Legend

DRAIN MANHOLE

CATCH BASIN

SEWER MANHOLE

ELECTRIC MANHOLE

TELEPHONE MANHOLE

MANHOLE HH HAND HOLE

WATER GATE

FIRE HYDRANT GAS GATE ■ BOLLARD w/LIGHT → STREET SIGN □ LIGHT POLE

-O- UTILITY POLE GUY POLE GUY WIRE MONITORING WELL

FLOOD LIGHT WELL WELL <u>₩</u> MARSH

F.F.E.=45.27'
FINISHED FLOOR ELEVATION CNO COULD NOT OPEN NPV NO PIPES VISIBLE DYL DOUBLE YELLOW LINE DWL DASHED WHITE LINE

SYL SINGLE YELLOW LINE LSA LANDSCAPED AREA EDGE OF PAVEMENT CONCRETE CURB VERTICAL GRANITE CURB SLOPED GRANITE EDGE

BITUMINOUS BERM BITUMINOUS CURB GUARD RAIL
GHAIN LINK FENCE
DRAINAGE LINE — — — — SEWER LINE

UNDERGROUND ELECTRIC
T TELEPHONE LINE

---- 100'BZ ------ 100-FT BUFFER ZONE ----- 100'RA ----- 100-FT RIVER FRONT AREA 200-FT RIVER FRONT AREA

200-FT RIVER FRONT AREA

200-FT RIVER FRONT AREA

LIMIT MEAN ANNUAL HIGH WATER

LIMIT OF BANK

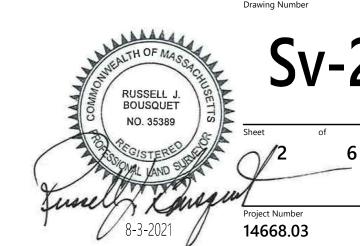
WEGETATED WETLAND BOUNDARY

Proposed Solar Array

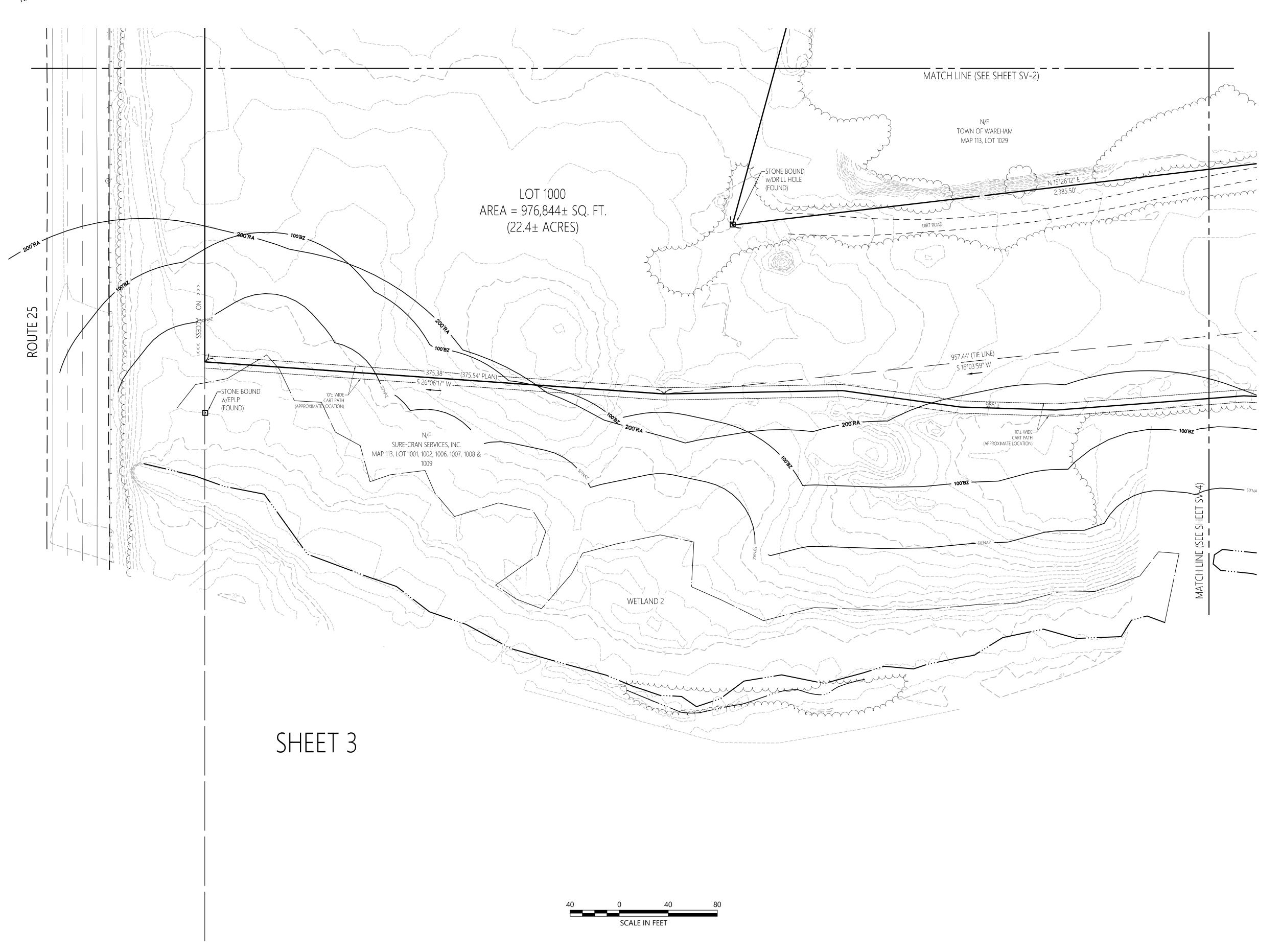
Route 25 Wareham, Massachusetts

January 12, 2021

Existing Conditions Plan of Land









Legend

DRAIN MANHOLE

■ CATCH BASIN

SEWER MANHOLE

ELECTRIC MANHOLE

TELEPHONE MANHOLE

MANHOLE

HAND HOLE

WATER GATE

FIRE HYDRANT

GAS GATE

BOLLARD W/LIGHT

STREET SIGN

LIGHT POLE

UTILITY POLE

GUY POLE

GUY WIRE

MONITORING WELL
FLOOD LIGHT
WELL
MARSH

MARSH

F.F.E.=45.27'
FINISHED FLOOR ELEVATION
CNO COULD NOT OPEN
NPV NO PIPES VISIBLE

NPV NO PIPES VISIBLE
DYL DOUBLE YELLOW LINE
DWL DASHED WHITE LINE
SYL SINGLE YELLOW LINE
LSA LANDSCAPED AREA

EOP EDGE OF PAVEMENT

CONCRETE CURB

VERTICAL GRANITE CURB

SGE SLOPED GRANITE EDGE

BB BITUMINOUS BERM

BC BITUMINOUS CURB

GUARD RAIL

O O CHAIN LINK FENCE

DRAINAGE LINE

DRAINAGE LINE

DRAINAGE LINE

SEWER LINE

OVERHEAD WIRE

UNDERGROUND ELECTRIC

T TELEPHONE LINE

G GAS LINE

GAS LINE

WATER LINE

WATER LINE

STONE WALL

TREE LINE

100'BZ 100-FT BUFFER ZONE

100-FT RIVER FRONT AREA

200-FT RIVER FRONT AREA

200-FT RIVER FRONT AREA

200-FT RIVER FRONT AREA

LIMIT MEAN ANNUAL HIGH WATER

LIMIT OF BANK

WF1-100

WF1-100

VEGETATED WETLAND BOUNDARY

Proposed Solar Array

Route 25 Wareham, Massachusetts

No. Revision Date Appro

Designed by

Checked by

Issued for

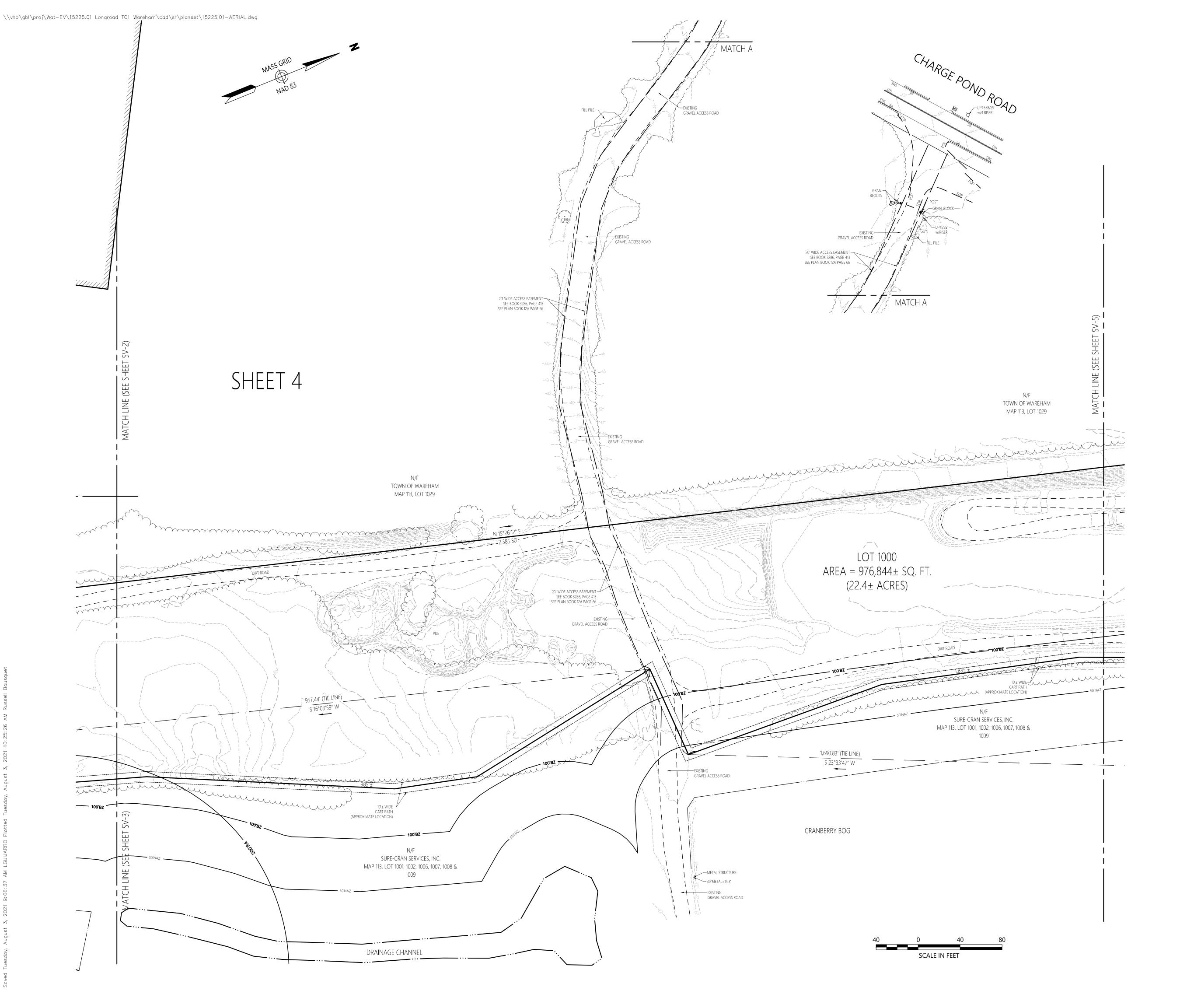
Date

January 12, 2021

January 12, 20

Existing Conditions
Plan of Land







Legend D DRAIN MANHOLE

■ CATCH BASIN

S SEWER MANHOLE © ELECTRIC MANHOLE TELEPHONE MANHOLE MANHOLE HH□ HAND HOLE WATER GATE FIRE HYDRANT GAS GATE ■ BOLLARD w/LIGHT → STREET SIGN □ LIGHT POLE -O- UTILITY POLE ○— GUY POLE GUY WIRE MONITORING WELL FLOOD LIGHT WELL WELL <u>₩</u> MARSH F.F.E.=45.27'
FINISHED FLOOR ELEVATION CNO COULD NOT OPEN NPV NO PIPES VISIBLE DYL DOUBLE YELLOW LINE DWL DASHED WHITE LINE SYL SINGLE YELLOW LINE LSA LANDSCAPED AREA EDGE OF PAVEMENT CONCRETE CURB VERTICAL GRANITE CURB SLOPED GRANITE EDGE BITUMINOUS BERM BITUMINOUS CURB ---- DRAINAGE LINE — — — — SEWER LINE UNDERGROUND ELECTRIC
T TELEPHONE LINE

Proposed Solar Array

----- 100'RA ------ 100-FT RIVER FRONT AREA

———— 200'RA —— 200-FT RIVER FRONT AREA

LIMIT MEAN ANNUAL HIGH WATER

LIMIT OF BANK

WF1-100

VEGETATED WETLAND BOUNDARY

Route 25 Wareham, Massachusetts

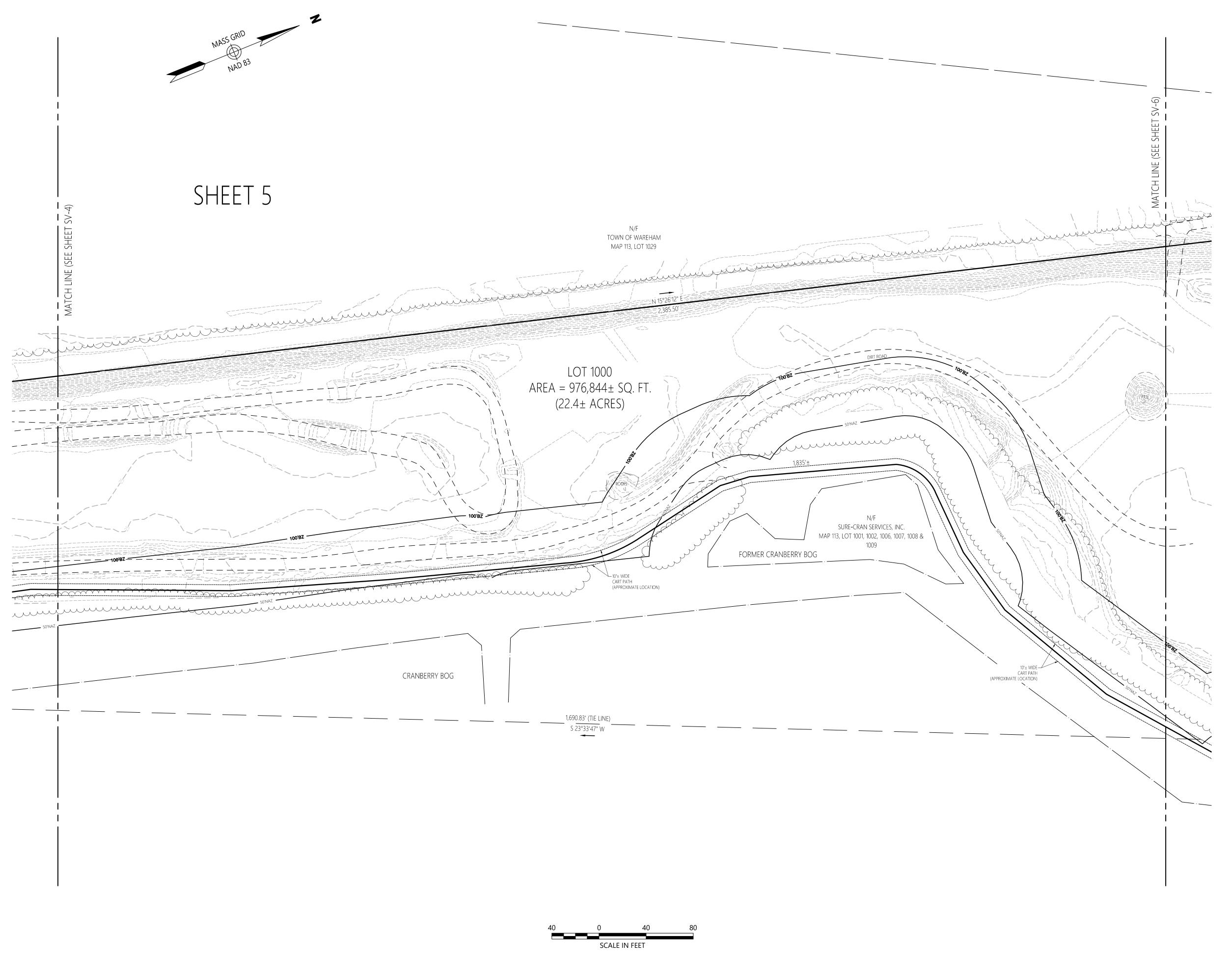
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January 12, 2021





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101 Walnut Street PO Box 9151 Watertown, MA 02471 617.924.1770

Legend

D DRAIN MANHOLE

CATCH BASIN
S SEWER MANHOLE
E ELECTRIC MANHOLE
T TELEPHONE MANHOLE
MANHOLE
HH□ HAND HOLE
WATER GATE
FIRE HYDRANT
GAS GATE
BOLLARD W/LIGHT
STREET SIGN
CHART POLE
UTILITY POLE
GUY POLE
GUY WIRE

MONITORING WELL

FLOOD LIGHT

WELL

MARSH

WELL<u>★</u>MARSHF.F.E.=45.27'FINISHED FLOOR ELEVATION

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SGE SLOPED GRANITE EDGE
BB BITUMINOUS BERM
BC BITUMINOUS CURB

GUARD RAIL

CHAIN LINK FENCE

DRAINAGE LINE

OHW

UNDERGROUND ELECTRIC

T TELEPHONE LINE
GAS LINE
WATER LINE
STONE WALL
TREE LINE
100'BZ 100-FT BUFFER ZONE

100-FT RIVER FRONT AREA
200-FT RIVER FRONT AREA
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LIMIT MEAN ANNUAL HIGH WATER
LIMIT OF BANK
VEGETATED WETLAND BOUNDARY

Proposed Solar Array

Route 25 Wareham, Massachusetts

Revision Date Appvd.

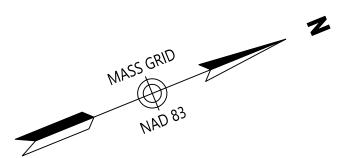
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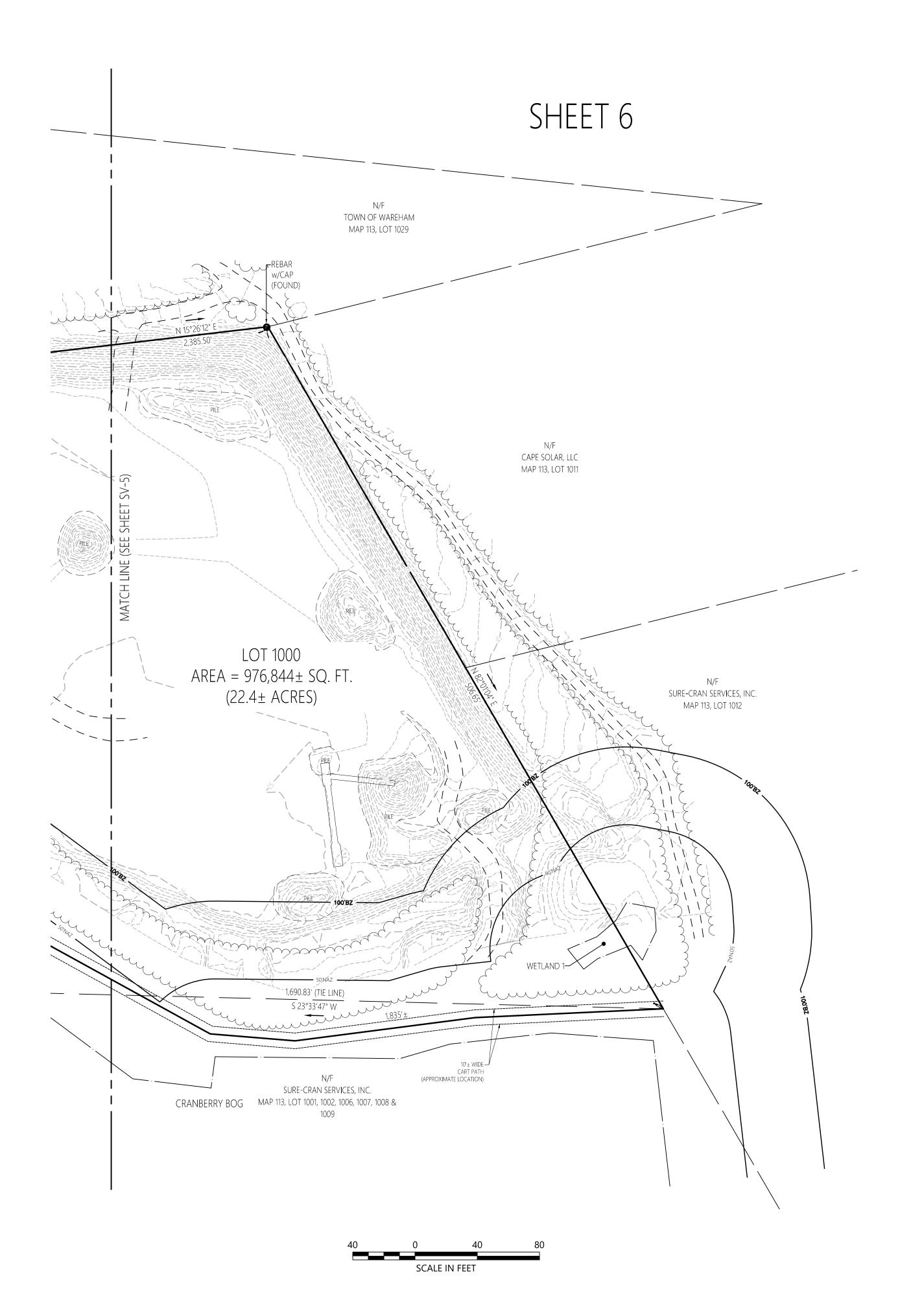
January 12, 2021

January 12, 20

Existing Conditions
Plan of Land









Legend

 D DRAIN MANHOLE
 ■ CATCH BASIN
 S SEWER MANHOLE
 E ELECTRIC MANHOLE
 TELEPHONE MANHOLE
 MANHOLE HH☐ HAND HOLE

■ WATER GATE

■ FIRE HYDRANT GAS GATE
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BB BITUMINOUS BERM
BITUMINOUS CURB GUARD RAIL

CHAIN LINK FENCE

DRAINAGE LINE — — — — SEWER LINE GAS LINE
WATER LINE
STONE WALL
TREE LINE — 100'BZ — 100-FT BUFFER ZONE ----- 100'RA ----- 100-FT RIVER FRONT AREA ------ 200'ra --- 200-FT RIVER FRONT AREA → AF1-100 · · · — LIMIT MEAN ANNUAL HIGH WATER

-- □ · · · · · · LIMIT OF BANK

-- WF1-100 · VEGETATED WETLAND BOUNDARY

Proposed Solar Array

Route 25 Wareham, Massachusetts

January 12, 2021



