

PROPOSED SOLAR ARRAY NEXTGRID, INC.

376 NASH ROAD
NEW BEDFORD, MASSACHUSETTS



SCALE: 1"=200'

ENGINEER:
FIELD ENGINEERING CO., INC.
11D INDUSTRIAL DRIVE
P.O. BOX 1178
MATTAPOISETT, MA 02739

APPLICANT
NEXTGRID, INC.
P.O. BOX 7775 #73069
SAN FRANCISCO, CA 94120

PROPERTY OWNER
NG 376 NASH LLC
P.O. BOX 7775, #73069
SAN FRANCISCO, CA 94120

SITE DRAWINGS

ISSUED FOR: PERMITTING
DATE ISSUED: JULY 12, 2021
LATEST ISSUE: AUGUST 10, 2021

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INDUSTRIAL B DISTRICT (IB)	
REGULATION	REQUIREMENT
LOT AREA	0 S.F.
LOT FRONTAGE	0 FT.
FRONT SETBACK	25 FT.
SIDE SETBACK	25 FT.
REAR SETBACK	25 FT.
BUILDING HEIGHT/ STORIES	100 FT./7 STY.
LOT BUILDING COVERAGE	50%
GREEN SPACE	20%

PROJECT LOCATION:
ASSESSORS MAP 102 LOTS 85, 95, 163 & 185
376 NASH ROAD
NEW BEDFORD, MASSACHUSETTS
DEED REFERENCES: 19261, 4622-98,
8402-193, 9472-241

PROPOSED
SOLAR ARRAY

376 NASH ROAD
MAP 102 LOTS 85, 95,
163 & 185
NEW BEDFORD, MA

**FIELD
ENGINEERING
CO., INC.**
CONSULTING ENGINEERS
11D INDUSTRIAL DRIVE
P.O. BOX 1178
MATTAPOISETT, MA 02739
TEL: (508) 758-2749
FAX: (508) 758-2849

Project No.
2399

GENERAL CONSTRUCTION NOTES

- THE MATERIALS AND CONSTRUCTION OF ALL PROPOSED UTILITIES SHALL CONFORM TO THE LOCAL D.P.W. STANDARDS AND SPECIFICATIONS AS WELL AS ALL APPLICABLE MASSDOT STANDARDS AND SPECIFICATIONS, LATEST EDITION.
- ALL CONSTRUCTION METHODS AND MATERIALS, AS WELL AS ALL MATERIAL SHOP DRAWINGS AND MANUFACTURERS DATA SHALL REQUIRE THE WRITTEN APPROVAL OF THE LOCAL D.P.W., AND THE PROJECT ENGINEER PRIOR TO FABRICATION AND INSTALLATION.
- THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES SHALL BE CONSIDERED APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION. UNDERGROUND UTILITIES SHOWN ARE FROM FIELD OBSERVATION AND THE BEST AVAILABLE RECORD INFORMATION AND ARE NOT WARRANTED TO BE EXACT, NOR IS IT WARRANTED THAT ALL UNDERGROUND PIPES OR STRUCTURES ARE SHOWN. THE CONTRACTOR SHALL CONTACT THE RESPECTIVE UTILITY COMPANIES RELATIVE TO THE LOCATION AND ELEVATION OF ALL EXISTING LINES.
- THE CONTRACTOR SHALL CONTACT "DIG SAFE" AT 811, 72 HOURS PRIOR TO ANY EXCAVATION AND/OR SUBSURFACE TESTING TO INFORM THE UTILITY COMPANIES OF ANY EXCAVATION.
- WHENEVER EXISTING STRUCTURES ARE ENCOUNTERED, THE CONTRACTOR SHALL REPAIR ANY DAMAGED STRUCTURES OR REPLACE ANY REMOVED STRUCTURES, AND MAKE ANY IMPROVEMENTS ABOVE OR BELOW GRADE TO A CONDITION BETTER THAN OR EQUAL TO PRE-EXISTING CONDITIONS.
- ALL EXCAVATED MATERIAL DESIGNATED FOR REUSE SHALL BE STOCKPILED ON SITE NO HIGHER THAN 8 FEET AND SHALL BE ENCLOSED BY TEMPORARY SILT FENCES TO PREVENT TRAVEL OF SEDIMENT TO ADJACENT PROPERTIES OR DRAINAGE WAYS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL WASTE MATERIAL AT AN APPROVED LOCATION. BURNAL OF WASTE MATERIAL ON SITE WILL NOT BE PERMITTED.
- EROSION CONTROL MEASURES SHALL REMAIN IN PLACE AND MAINTAINED IN GOOD CONDITION UNTIL SURFACE RESTORATION IS COMPLETE AND ALL AREAS DISTURBED BY THE CONTRACTORS OPERATIONS ARE STABILIZED.
- THE CONTRACTOR SHALL PROTECT ADJACENT PROPERTIES FROM ON SITE CONSTRUCTION ACTIVITIES AND REMOVE ANY SEDIMENT OR DEBRIS DEPOSITED THEREON IMMEDIATELY.
- DRAINAGE GENERATED AS A RESULT OF TRENCH DEWATERING SHALL BE DISCHARGED TO EXISTING DRAINAGE COURSES WITH PROPER EROSION CONTROL, AND DEWATERING MEASURES SUBJECT TO APPROVAL BY THE PROJECT ENGINEER. DIRECT DISCHARGE ONTO PAVEMENT, WETLANDS OR PRIVATE PROPERTY SHALL NOT BE ALLOWED WITHOUT CONSENT OF THE PROJECT ENGINEER AND THE CONSERVATION COMMISSION.
- THE PROJECT ENGINEER SHALL APPROVE ALL FIELD CHANGES IN THE WORK PRIOR TO IMPLEMENTATION. NO FIELD CHANGES SHALL BE MADE IN ANY SPECIFIED SITE WORK OR ANY MATERIALS FOR WHICH SHOP DRAWINGS HAVE BEEN SUBMITTED AND APPROVED WITHOUT PRIOR CONSULTATION OF THE OWNER AND THE PROJECT ENGINEER. ANY CHANGES SO MADE WITHOUT THE CONSENT OF THE OWNER AND THE PROJECT ENGINEER SHALL, IF DEEMED UNACCEPTABLE BY EITHER PARTY, BE PROMPTLY REMOVED FROM THE WORK AT NO EXPENSE TO THE OWNER OF THE PROJECT.
- ANY WORK OR MATERIALS NOT MEETING THE APPROVED STANDARDS AND SPECIFICATIONS OF THE LOCAL DPW SHALL BE IMMEDIATELY REMOVED AND REPLACED AT THE FULL RESPONSIBILITY AND COST/EXPENSE TO THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE PREPARATION, THE COORDINATION AND INSTALLATION OF ALL UTILITY CONNECTIONS, AND RELATED WORK INCLUDING BUT NOT LIMITED TO ALL NECESSARY SHORING, BRACING AND TRENCH DEWATERING FOR THE COMPLETE INSTALLATION OF THE PROJECT FACILITIES DURING CONSTRUCTION.
- SEE CONSTRUCTION DETAIL SHEETS FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.
- ALL OPEN EXCAVATIONS SHALL BE ADEQUATELY SAFEGUARDED IN STRICT ACCORDANCE WITH OSHA GUIDELINES AND TO THE SATISFACTION OF THE LOCAL POLICE DEPARTMENT. PROVISIONS FOR TEMPORARY BARRIERS, LIGHTS AND OTHER MEANS SHALL BE USED TO PREVENT ACCESS TO AND DAMAGE TO PROPERTY ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE SUITABLE AND SAFE BRIDGES AND OTHER CROSSINGS FOR ACCOMMODATING TRAVEL BY PEDESTRIANS AND WORKMEN. NO EXCAVATIONS SHALL REMAIN OPEN OVERNIGHT.
- NO TRENCH EXCAVATION WILL BE ALLOWED WITHOUT PROPER LOCAL PERMITS.
- UNLESS OTHERWISE SHOWN ON THESE PLANS, ANY AREAS DISTURBED BY THE CONTRACTORS SHALL BE RESTORED TO ITS PRE-EXISTING CONDITION.
- ALL WORK IN PUBLIC WAYS SHALL BE PERFORMED BY A CONTRACTOR REGISTERED WITH THE CITY OF NEW BEDFORD AS A LICENSED DRAIN LAYER.
- THE CONTRACTOR SHALL OBTAIN A STREET DISTURBANCE AND OBSTRUCTION PERMIT PRIOR TO ANY WORK BEING PERFORMED WITHIN THE CITY RIGHT OF WAY.

STORMWATER FACILITY OPERATION/MAINTENANCE PLAN

PROPERTY OWNER:
NG 378 NASH LLC
P.O. BOX 7775 #73069
SAN FRANCISCO, CA 94120

APPLICANT/PROPOONENT:
NEXTGRID, INC.
P.O. BOX 7775 #73069
SAN FRANCISCO, CA 94120

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSPECTION AND MAINTENANCE OF ALL STORMWATER MANAGEMENT FACILITIES INCLUDING THE CONTINUED STABILIZATION OF THE SITE UNTIL SUCH TIME AS THE PROJECT IS ACCEPTED BY THE OWNER. THEREAFTER, THE OWNER SHALL BE RESPONSIBLE FOR THE PROPER INSPECTION AND MAINTENANCE OF ANY STORMWATER FACILITIES IN ACCORDANCE WITH THIS OPERATION AND MAINTENANCE PLAN.
- ALL STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S), INCLUDING THE SILTATION CONTROL, SHOULD BE INSPECTED AFTER EVERY MAJOR RAINFALL EVENT EXCEEDING 1.0-INCH UNTIL THE SITE IS FULLY STABILIZED TO ENSURE NO SEDIMENTATION INTO ADJACENT PROPERTIES HAS OCCURRED.
- THEREAFTER REGULAR BMP INSPECTIONS SHOULD BE CONDUCTED ACCORDING TO THE FOLLOWING SCHEDULE:

BMP STRUCTURE	INSPECTIONS PER YEAR
CRUSHED STONE EDGE DRAIN TRENCHES	2
VEGETATED DEPRESSION AREAS	2
- ACCUMULATED SILT AND SEDIMENT AHEAD OF THE SILTATION CONTROLS SHOULD BE REMOVED IF THE ACCUMULATED DEPTH OF SEDIMENT EXCEEDS ONE HALF OF THE HEIGHT OF THE STRUCTURE. ANY ACCUMULATED SILT WITHIN THE DETENTION BASINS SHOULD BE REMOVED ONCE THE ACCUMULATED DEPTH OF SILT EXCEEDS THREE INCHES.
- THE CRUSHED STONE EDGE DRAINS SHALL BE INSPECTED TWICE PER YEAR. IF IT IS DETERMINED THAT THE TOP STONE ABOVE THE FILTER FABRIC IS SILTED OR COMPROMISED, THE TOP STONE SHALL BE REMOVED, ANY DAMAGED FILTER FABRIC SHALL BE REMOVED AND REPLACED AND CLEAN STONE SHALL BE PLACED OVER THE FILTER FABRIC.
- ALL REMOVED SEDIMENTS ARE TO BE PROPERLY DISPOSED OF AT A LOCATION TO BE APPROVED BY THE BOARD OF HEALTH, TRANSPORTATION AND DISPOSAL OF SEDIMENTS SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
- THE ACCESS DRIVEWAY INTO THE FACILITY SHALL BE PLOWED AFTER ALL SNOW EVENTS TO MAINTAIN EMERGENCY ACCESS TO THE FACILITY. SNOW SHALL BE STOCKPILED ON-SITE AND ALLOW TO MELT ON-SITE AND FLOW OVERLAND FOLLOWING NATURAL DRAINAGE PATTERNS.
- THE ACCESS DRIVEWAY SHALL BE MONITORED ON A REGULAR BASIS TO INSURE ITS SUITABILITY FOR ACCESS. GRAVEL ALONG THE ACCESS DRIVEWAY SHALL BE REPLACED AS NECESSARY TO MAINTAIN SUITABLE ACCESS TO THE ARRAY. IN ADDITION THE ENTIRE FACILITY SHALL BE MONITORED ON A REGULAR BASIS FOR ANY SIGNS OF EROSION DUE TO STORMWATER RUNOFF. ERODED AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE.
- THE SITE SHALL BE MONITORED TO INSURE PROPOSED DRAINAGE PATTERNS ARE MAINTAINED FOLLOWING CONSTRUCTION. SHOULD CHANNEL FLOW FROM RUNOFF DEVELOP WITHIN THE SITE THAT REQUIRES CORRECTIVE MEASURES, THESE MEASURES SHALL BE REVIEWED WITH THE PLANNING BOARD PRIOR TO THEIR IMPLEMENTATION.
- SIDE SLOPES AND BOTTOM AREAS OF THE VEGETATED DEPRESSIONS SHOULD BE MOWED TO A MINIMUM HEIGHT OF FOUR INCHES AT LEAST ONCE A YEAR. REMOVE ALL GRASS CLIPPINGS AND ORGANIC MATTER FROM ALL DRAINAGE WAYS AS NECESSARY.
- THE VEGETATED DEPRESSIONS SHOULD BE INSPECTED FOR TRASH ON A REGULAR BASIS. ANY ACCUMULATED TRASH, LITTER, AND DISCARDED MATERIALS SHOULD BE REMOVED.
- THE CONTRACTOR AND THE OWNER SHALL MAINTAIN A BMP INSPECTION REPORT FOLLOWING EACH SITE INSPECTION AS RECOMMENDED ABOVE. THE BMP INSPECTION REPORT SHALL IDENTIFY THE DATE OF INSPECTION, THE NAME AND CONTACT NUMBER OF THE RESPONSIBLE PARTY, SPECIFIC STRUCTURES INSPECTED, SPECIFIC MAINTENANCE REQUIRED AND OBSERVATIONS AT A MINIMUM, INSPECTION REPORTS SHOULD ADDRESS THE FOLLOWING CONDITIONS WHERE APPLICABLE:
 - EMBANKMENT SUBSIDENCE
 - EROSION
 - CRACKING OF CONTAINMENT BERM
 - INLET/OUTLET CONDITIONS
 - SEDIMENT ACCUMULATIONS
 - SLOPE STABILITY
- NO HAZARDOUS MATERIALS SHALL BE STORED ON-SITE DURING AND/OR FOLLOWING CONSTRUCTION OF THE PROPOSED SOLAR ARRAY.
- NO FERTILIZERS OR HERBICIDES OF ANY KIND SHALL BE USED OR STORED ON-SITE DURING AND/OR FOLLOWING CONSTRUCTION OF THE PROPOSED SOLAR ARRAY.

INVASIVE SPECIES CONTROL PLAN (ISCP)

- THE OWNER WILL MONITOR THE VEGETATED DEPRESSIONS PURSUANT TO THE RECOMMENDATIONS OUTLINED IN THE USACE DOCUMENT TITLED "NEW ENGLAND DISTRICT COMPENSATORY MITIGATION GUIDANCE" DOCUMENT, PAGES 24-26 SECTION 4.F. INVASIVE SPECIES. DUE TO THE PROXIMITY OF THE BMP'S TO THE EXISTING BORDERING VEGETATED WETLAND, THE APPLICANT HAS CHOSEN A MECHANICAL CONTROL METHOD OF REMOVAL. INVASIVE SPECIES WILL BE REMOVED BY HAND (PULLING, MOWING OR EXCAVATING ON-SITE). NO CHEMICAL CONTROL WILL BE UTILIZED.
- SPECIAL ATTENTION WILL BE GIVEN TO ASSURE THAT NONE OF THE FOLLOWING INVASIVE SPECIES POPULATE THE STORM WATER BMP'S: COMMON REED (PHRAGMITES AUSTRALIS), PURPLE LOOSESTIFE (LYTHRUM SALICARIA), SMOOTH AND COMMON BUCKTHORN (FRANGULA ALNUS, RHAMNUS CARTHARTICA), RUSSIAN AND AUTUMN OLIVES (ELAAGNUS ANGUSTIFOLIA AND E. UMBELLATA), MULTIFLORA ROSE (ROSA MULTIFLORA), REED CANARY-GRASS (PHALARIS ARUNDINACEA), AND JAPANESE KNOTWEED (FALLOPIA JAPONICA).

EROSION & SEDIMENTATION CONTROL PROGRAM

- ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL APPROVING AUTHORITY AND AS DIRECTED BY THE PROJECT ENGINEER.
- THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE LEFT IN AN UNTREATED OR UNVEGETATED CONDITION FOR A MINIMUM TIME. AREAS SHALL BE PERMANENTLY STABILIZED WITHIN 15 DAYS OF FINAL GRADING AND TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF THE SOIL IF THE DISTURBANCE IS WITHIN 100 FEET OF A WETLAND RESOURCE AREA. THE DISTURBED AREAS SHALL BE STABILIZED WITHIN 7 DAYS OR PRIOR TO ANY FORECASTED STORM EVENT.
- SEDIMENT BARRIERS (SILT FENCE, HAY BARRIERS, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE UPGRADED CONTRIBUTING DRAINAGE AREA. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 6:06 AFTER OCTOBER 1ST.
- INSTALL SILT FENCE AT TOE OF SLOPE TO FILTER SILT FROM RUNOFF. SEE SILT FENCE DETAIL FOR PROPER INSTALLATION.
- ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED AND/OR REPAIRED EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL, SNOW MELT OR WHEN NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION OR DECOMPOSITION. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT AND WHEN THE DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE STABILIZED BY TURF.
- NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN THREE TO ONE (3 TO 1) UNLESS NOTED OTHERWISE.
- IF FINAL SEEDING OF THE DISTURBED AREAS IS NOT COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST, USE TEMPORARY MULCH OR DORMANT SEEDING TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.
- TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINAL GRADED SHALL BE COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST TO PROTECT FROM SPRING RUNOFF PROBLEMS.
- REVEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND PREPARED FOR FINAL SEEDING AS FOLLOWS:
 - THE TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS, AND SHALL BE PLACED TO A DEPTH OF FOUR (4) INCHES ON ALL LOAM AND SEED AREAS OR AS SPECIFIED ON THE DRAWINGS.
 - APPLY FERTILIZER AT A RATE OF 800 LB PER ACRE OR 18.4 LB PER 1,000 SF. APPLY GROUND LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 3 TONS PER ACRE OR 138 LB PER 1,000 SF.
 - THE DESIGN MIX FOR SEEDING SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE. THE SEED MIX SHALL BE INOCULATED WITHIN TWENTY-FOUR (24) HOURS, BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.

LOAM AND SEED AREAS - MASSDOT SPEC M6.03.0

TYPE	% BY WEIGHT
RED FESCUE	50
KENTUCKY 31	30
DOMESTIC RYE	10
RED TOP LADINO	5
CLOVER	5
APPLICATION RATE	4.0 LBS./1000 S.F.

- HAY OR STRAW MULCH SHALL BE LOOSELY SPREAD TO A UNIFORM DEPTH AT THE RATE OF 4.5 TONS PER ACRE EXCEPT OVER SEEDED AREAS WHERE 2 TONS PER ACRE SHALL BE USED AS DIRECTED BY THE ENGINEER AND/OR THE LOCAL APPROVING AUTHORITY. A HYDRO-APPLICATION OF WOOD OR PAPER FIBER SHALL BE APPLIED FOLLOWING SEEDING. A SUITABLE BINDER SUCH AS CURASOL OR RMB PLUS WILL BE USED ON HAY MULCH FOR WIND CONTROL.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE SITE IS STABILIZED TO THE SATISFACTION OF THE LOCAL APPROVING AUTHORITY AND THE PROJECT ENGINEER.
- ADJACENT PROPERTIES WILL BE PROTECTED WITH HAY BALES AND/OR SILT FENCING INSTALLED AS SHOWN ON THE DRAWINGS. ADDITIONAL HAY BALES OR SAND BAGS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER AND/OR THE LOCAL APPROVING AUTHORITY.
- TEMPORARY HAY BALE EROSION CHECKS OR FILTER FABRIC GRATE INSERTS SHALL BE PROVIDED AT ALL DRAINAGE STRUCTURE INLETS DURING CONSTRUCTION. UPON COMPLETION OF CONSTRUCTION AND SATISFACTORY STABILIZATION OF DISTURBED AREAS, THE CONTRACTOR SHALL CLEAN ALL CATCH BASIN SUMPS AND DRAIN INVERTS.
- THE CONTRACTOR MUST REPAIR OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND SHALL DO SO AT NO ADDITIONAL EXPENSE TO THE OWNER OR APPLICANT.
- THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 1ST THROUGH JUNE 15TH AND AUGUST 15TH THROUGH OCTOBER 1ST.
- STOCKPILES OF TOP SOIL SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 1:1.

MULCH AND MULCH ANCHORING

MULCH LOCATION	MULCH	RATE (1,000 S.F.)
MILD SLOPES LESS THAN 3:1	STRAW OR HAY	200 POUNDS
HIGH WIND VELOCITY AREAS	SHREDDED OR CHOPPED CORNSTALKS	200-275 POUNDS
MODERATE TO HIGH VELOCITY AREAS	ANCHORED STRAW OR HAY (1)	200 POUNDS
STEEP SLOPES GREATER THAN 3:1	JUTE MESH OR EXCELSIOR MAT	AS REQUIRED
	JUTE MESH OR EXCELSIOR MAT	AS REQUIRED

(1) A HYDRO-APPLICATION OF WOOD OR PAPER FIBER MAY BE APPLIED FOLLOWING SEEDING. A SUITABLE BINDER SUCH AS CURASOL OR RMB PLUS SHALL BE USED ON HAY MULCH FOR WIND CONTROL.

MULCH ANCHORING

MULCH ANCHORING MAY BE ACCOMPLISHED WITH PEG AND TWINE (1 SQ. YD./BLOCK); MULCH NETTING (PER MANUFACTURERS SPECIFICATIONS); OR WOOD CELLULOSE FIBER (750 LBS/ACRE)

EROSION CONTROL NOTES DURING CONSTRUCTION

- CONSTRUCTION ACTIVITY EXECUTED DURING THE WINTER CONSTRUCTION PERIOD BETWEEN NOVEMBER 1 THROUGH APRIL 1ST SHALL BE SUBJECT TO THE FOLLOWING ADDITIONAL REQUIREMENTS.
- WINTER EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
- EXPOSED AREA SHOULD BE LIMITED TO THAT WHICH CAN BE MULCHED IN ONE DAY PRIOR TO ANY NOW EVENT.
- CONTINUATION OF EARTHWORK OPERATIONS ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED SUCH THAT NO AREA IN EXCESS OF ONE ACRE IS WITHOUT EROSION CONTROL PROTECTION.
- AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW OR HAY AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE.
- BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 1ST, LOAM OR SEED WILL NOT BE PERMITTED. DURING PERIODS OF ABOVE FREEZING TEMPERATURES, THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDED AND MULCHED UNTIL SUCH TIME AS THE FINAL TREATMENT CAN BE APPLIED.
- IF THE DATE IS AFTER NOVEMBER 1ST AND IF THE EXPOSED AREA HAS BEEN LOAMED, FINAL GRADED AND IS SMOOTH, THEN THE AREA MAY BE DORMANT SEEDED AT A RATE OF 200 TO 300% HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED. IF CONSTRUCTION CONTINUES DURING FREEZING WEATHER, ALL EXPOSED AREAS SHALL BE CONTINUOUSLY GRADED BEFORE FREEZING AND THE SURFACE TEMPORARILY PROTECTED FROM EROSION BY THE APPLICATION OF MULCH. SLOPES SHALL NOT BE LEFT UNEXPOSED OVER THE WINTER OR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNLESS TREATED IN THE ABOVE MANNER.

UNTIL SUCH TIME AS WEATHER CONDITIONS ALLOW DITCHES TO BE FINISHED WITH THE PERMANENT SURFACE TREATMENT, EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF HAY BALE/SAND BAG CHECK DAMS.

- BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 1ST ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING, ASPHALT EMULSION CHEMICAL, TRACK OR WOOD CELLULOSE FIBER.

MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3% , FOR SLOPES EXPOSED TO DIRECT WINDS, AND FOR ALL OTHER SLOPES GREATER THAN 8%.

MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15% AFTER OCTOBER 1ST THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.

- ALL EROSION MITIGATION MEASURES SHALL BE IN PLACE PRIOR TO MAJOR CONSTRUCTION OR SOIL DISTURBANCE COMMENCING ON THE SITE.

CITY OF NEW BEDFORD REQUIRED NOTES

- ANY MINOR MODIFICATIONS (AS DETERMINED BY THE CITY ENGINEER) TO THE INFORMATION SHOWN ON THE APPROVED SITE PLANS SHALL BE SUBMITTED TO THE CITY ENGINEER AS A MINOR PLAN REVISION FOR APPROVAL PRIOR TO THE WORK BEING PERFORMED.
- ANY WORK AND MATERIAL WITHIN THE CITY RIGHT-OF-WAY SHALL CONFORM TO THE CITY OF NEW BEDFORD REQUIREMENTS
- ALL HANDICAP PARKING, RAMPS, AND ACCESS SHALL CONFORM TO AAB & MAAB REQUIREMENTS
- ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO CONSTRUCTION. EROSION CONTROL SHALL CONFORM TO THE CITY OF NEW BEDFORD CONSERVATION COMMISSION REQUIREMENTS .
- ALL PAVEMENT MARKINGS AND SIGNS SHALL CONFORM TO MUTCD REQUIREMENTS

GENERAL ABBREVIATIONS

ABAN.	ABANDON
ACOMP	ASPHALT COATED CORRUGATED METAL PIPE
ADJ.	ADJUST
APPROX.	APPROXIMATE
BC	BOTTOM OF CURB
BD	BUND
BIT. CONC.	BITUMINOUS CONCRETE
BY OTHERS	BY OTHERS
BM	BENCH MARK
BM	BOTTOM OF WALL
CEM. CONC.	CEMENT CONCRETE
CCB	CARE COD BERM
CD	CURB INLET
CP	CAST IRON PIPE
CT	CHANGE IN TYPE
CLF	CHAIN LINK FENCE
CLF	CEMENT LINED DUCTILE IRON
CMP	CORRUGATED METAL PIPE
CPP	CORRUGATED PLASTIC PIPE
COND.	CONDUIT
DIP	DUCTILE IRON PIPE
DR	DRIVEWAY
ELEV. OR EL.	ELEVATION
EOP	EDGE OF PAVEMENT
ETW	EDGE OF TRAVELED WAY
EXIST.	EXISTING
FL	FLARED END
F & C	FRAME AND COVER
F & G	FRAME AND GRATE
FOUND.	FOUNDATION
FND	FOUND
FND	FILLED WITH DEBRIS
GRAN.	GRANITE
H.C.	HANDICAP
HH	HAND HOLE
HMA	HOT MIX ASPHALT
HOR.	HORIZONTAL
INV.	INVERT
LO	LOAM BORROW
LAYOUT	LAYOUT
MAX.	MAXIMUM
MIN.	MINIMUM
MON.	MONUMENT
NIC	NOT IN CONTRACT
NGVD	NATIONAL GEODETIC VERTICAL DATUM
N/F	NOW OR FORMERLY
O.C.	OR CENTER
OVERHEAD WIRE	OVERHEAD WIRE
PGL	PROFILE GRADE LINE
PROP.	PROPOSED
PVC	POLYVINYLCHLORIDE PIPE
PWT	PAVEMENT
PWW	PAVED WATERWAY
RELOC.	RELOCATED
R & D	REMOVE AND DISPOSE
R & R	REMOVE AND RESET
R & S	REMOVE AND STACK
REDA.	REMODEL
RCF	REINFORCED CONCRETE PIPE
RET.	RIGHT OF WAY
RR	RAILROAD
SB	STONE BOUND
SB/DH	STONE BOUND/DRILL HOLE
SLD	SLOPED GRANITE CURB
STA.	STATION
STL	STEEL
TBM	TEMPORARY BENCH MARK
TOP	TOP OF WALL
TOS	TOP OF SLOPE
TSV & B	TAPPING SLEEVE, VALVE AND BOX
TYPE	TYPICAL
TW	TOP OF WALL
U.S.	UNDER CONSTRUCTION
USGS	U.S. GEOLOGICAL SURVEY
VCP	VITRIFIED CLAY PIPE
VERT.	VERTICAL
VOC	VERTICAL GRANITE CURB
WCR	WHEELCHAIR RAMP

PROPOSED LEGEND

100	PROPOSED INDEX CONTOUR
98	PROPOSED INTERMEDIATE CONTOUR
98.8	PROPOSED SPOT GRADE
	PROPOSED PROPERTY LINE
	PROPOSED MONUMENT
	PROPOSED BUILDING
	PROPOSED EDGE OF PAVEMENT
	PROPOSED CURB
	PROPOSED SIDEWALK
	PROPOSED EDGE GRAVEL DRIVES
	PROPOSED LIMIT OF CLEARING
	PROPOSED FENCE LINE
	PROPOSED WALL
	PROPOSED SETBACK LINE
	PROPOSED EASEMENT LINE
	PROPOSED ZONING BOUNDARY
	PROPOSED RIP RAP
	PROPOSED SIGN POST
	PROPOSED UTILITY POLE
	PROPOSED GUY POLE
	PROPOSED CATCH BASIN
	PROPOSED DRAIN MANHOLE
	PROPOSED FLARED END
	PROPOSED SEWER MANHOLE
	PROPOSED WATER MANHOLE
	PROPOSED HYDRANT
	PROPOSED WATER GATE VALVE
	PROPOSED CURB STOP
	PROPOSED WELL LOCATION
	PROPOSED ELECTRIC MANHOLE
	PROPOSED HAND HOLE
	PROPOSED TRANSFORMER PAD
	PROPOSED TELEPHONE MANHOLE
	PROPOSED CONTROLLER CABINET
	PROPOSED GAS GATE
	PROPOSED DRAIN LINE
	PROPOSED SEWER LINE
	PROPOSED WATER LINE
	PROPOSED GAS LINE
	PROPOSED ELECTRIC LINE
	PROPOSED CABLE T.V. & TELEPHONE
	PROPOSED SEPTIC SYSTEM LOCATION
	PROPOSED WETLAND REPLICATION AREA
	PROPOSED SILTATION CONTROL
	PROPOSED LIMIT OF CLEARING
	EXISTING STRUCTURE TO BE DEMOLISHED
	REMOVE & DISPOSE
	REMOVE & RESET
	ADJUST TO GRADE
	ABANDON
	ABANDON IN PLACE

EXISTING LEGEND

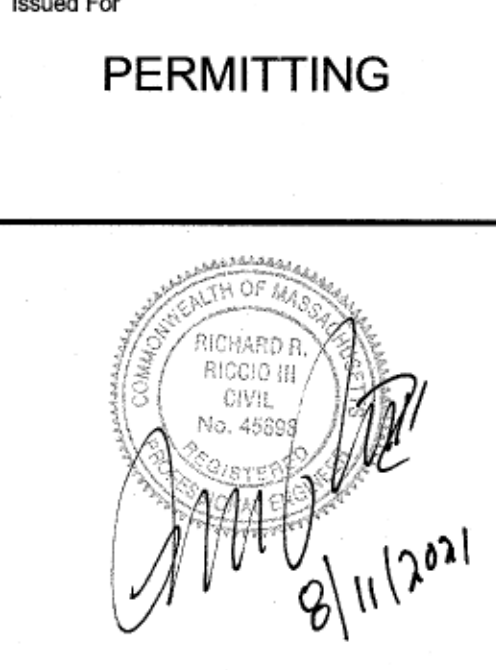
	PROPERTY LINE
95	TOPOGRAPHIC CONTOUR
DH-CB/FO	DRILL HOLE-CONCRETE BOUND/FOUND
CLF	CHAIN-LINK FENCE
WG	WATER GATE
DMH	DRAIN MANHOLE
CSBN	CATCH BASIN
DI	DROP INLET
FHD	FIRE HYDRANT
SMH	SEWER MANHOLE
CMH	CATV MANHOLE
CHH	CATV HAND HOLE
THH	TELEPHONE HAND HOLE
EMH	ELECTRIC MANHOLE
EH	ELECTRIC HAND HOLE
LP	LIGHT POLE
TRANS	TRANSFORMER
FOB	FIBER OPTIC BOX
FO	FIBER OPTIC LINE
SB	SWITCH BOX
	SOIL BORING LOCATION
	TEST PIT LOCATION

FIELD ENGINEERING CO., INC. CONSULTING ENGINEERS

110 INDUSTRIAL DRIVE
P.O. BOX 1178
MATTAPAN, MA 02739
TEL: (508) 758-2749
FAX: (508) 758-2849

Revisions			
No.	Revised Per	Date	RRR
1	INITIAL CITY REVIEW	8/10/21	RRR
Date 7/12/2021			
Scale NO SCALE			
Drawn By	Designed By	Checked By	
RMS	RRR	RRR	
Issued For			
PERMITTING			

Scale NO SCALE			
Drawn By	Designed By	Checked By	
RMS	RRR	RRR	
Issued For			

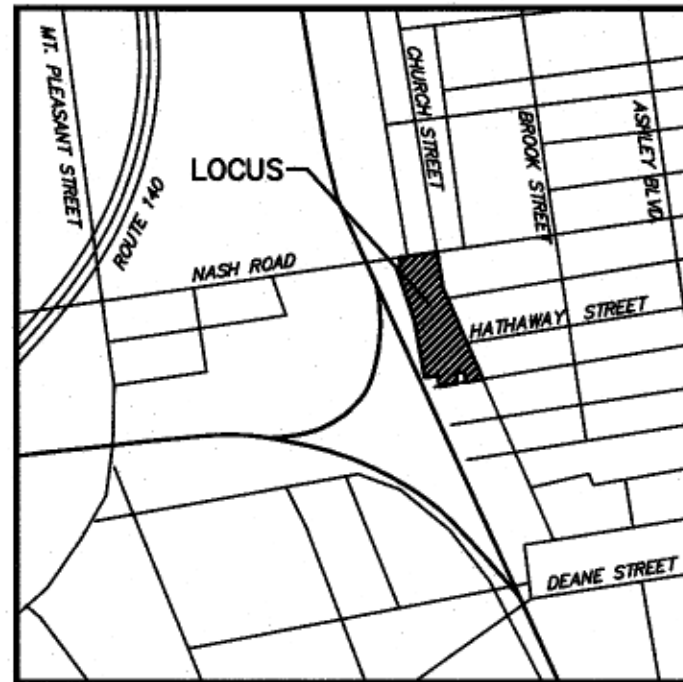


PROPOSED SOLAR ARRAY
NEXTGRID, INC.

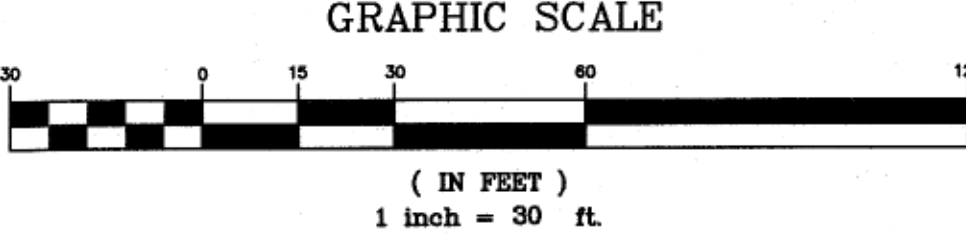
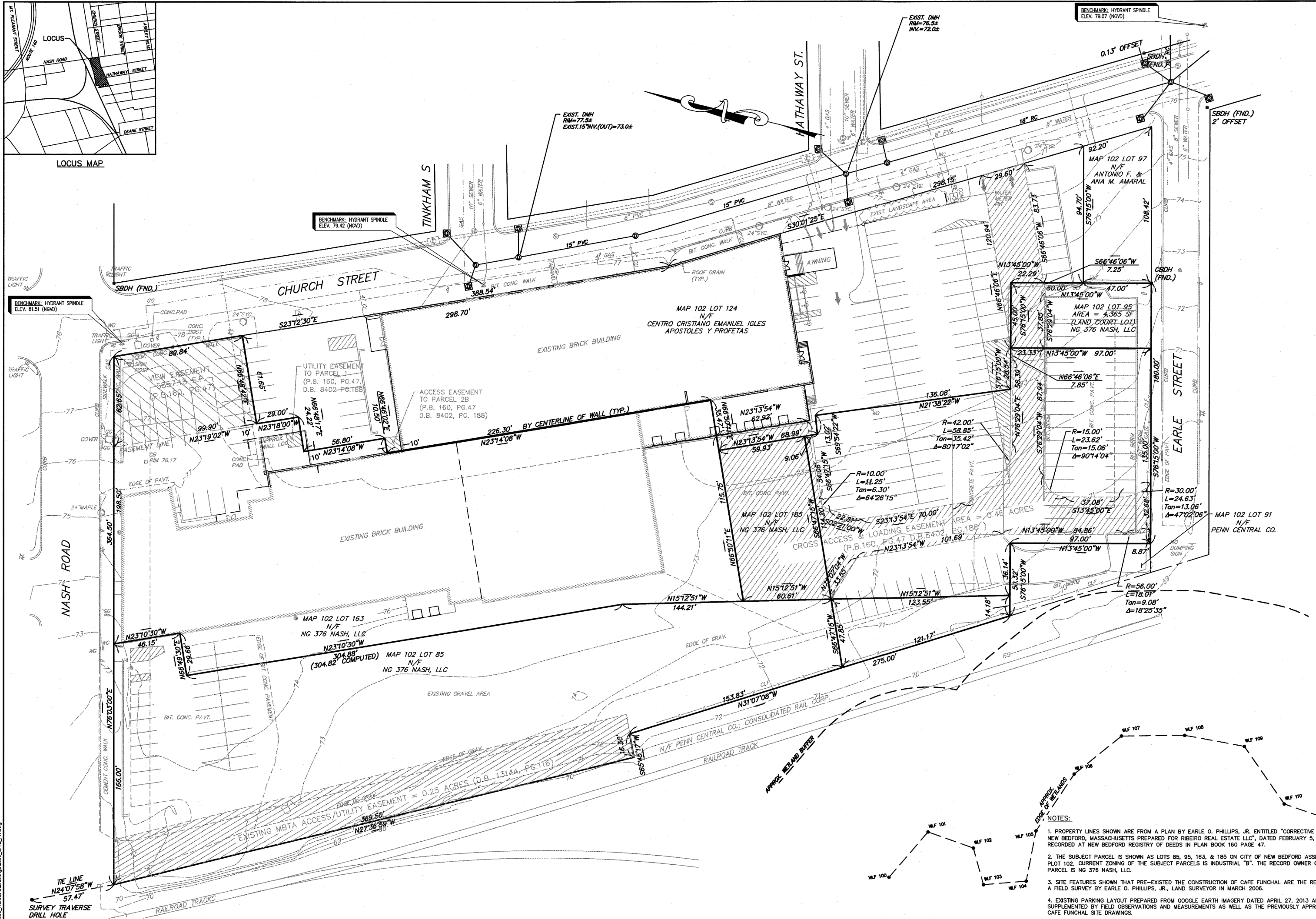
376 NASH ROAD
NEW BEDFORD, MASSACHUSETTS

Drawing Title	
NOTES & LEGEND	
Project No.	Sheet
2399	2 OF 6

N-1



LOCUS MAP



- NOTES:
1. PROPERTY LINES SHOWN ARE FROM A PLAN BY EARLE O. PHILLIPS, JR. ENTITLED "CORRECTIVE PLAN IN NEW BEDFORD, MASSACHUSETTS PREPARED FOR RIBEIRO REAL ESTATE LLC", DATED FEBRUARY 5, 2007 RECORDED AT NEW BEDFORD REGISTRY OF DEEDS IN PLAN BOOK 160 PAGE 47.
 2. THE SUBJECT PARCEL IS SHOWN AS LOTS 85, 95, 163, & 185 ON CITY OF NEW BEDFORD ASSESSORS PLOT 102. CURRENT ZONING OF THE SUBJECT PARCELS IS INDUSTRIAL "B". THE RECORD OWNER OF THE PARCEL IS NG 376 NASH, LLC.
 3. SITE FEATURES SHOWN THAT PRE-EXISTED THE CONSTRUCTION OF CAPE FUNCHAL ARE THE RESULT OF A FIELD SURVEY BY EARLE O. PHILLIPS, JR., LAND SURVEYOR IN MARCH 2006.
 4. EXISTING PARKING LAYOUT PREPARED FROM GOOGLE EARTH IMAGERY DATED APRIL 27, 2013 AND SUPPLEMENTED BY FIELD OBSERVATIONS AND MEASUREMENTS AS WELL AS THE PREVIOUSLY APPROVED CAPE FUNCHAL SITE DRAWINGS.
 5. WETLAND RESOURCE LINE SHOWN IS BASED ON A PLAN PREPARED FOR THE MASSACHUSETTS BAY TRANSPORTATION AUTHORITY ENTITLED "NEW BEDFORD MAIN LINE, EXISTING CONDITIONS PLAN, STA. 2787+60 TO STA. 2809+60" SHEET SV-313 PREPARED BY VHB HNTB AND DATED 6/01/2018.
 6. THE PURPOSE OF THIS PLAN IS TO ACCOMPANY PERMIT DRAWINGS FOR THE PROPOSED CARPORT AND ROOFTOP SOLAR ARRAYS SHOWN HEREIN. REFER TO INTERCONNECTION DRAWINGS AND ELECTRICAL DRAWINGS PREPARED BY ARC DESIGN FOR NEXTGRID FOR DETAILED INFORMATION RELATED TO THE SIZE OF THE ARRAY.

FIELD ENGINEERING CO., INC.
CONSULTING ENGINEERS
110 INDUSTRIAL DRIVE
P.O. BOX 1178
MATTAPAN, MA 02739
TEL: (508) 758-2745
FAX: (508) 758-2849

Revisions				
No.	Description	Date	Appr.	Rev.
1	REVISED PER INITIAL CITY REVIEW	8/10/21	RRR	
Date: 7/12/2021				
Scale: 1"=30'				
Drawn By	Designed By	Checked By		
RMS	RRR	RRR		

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PROPOSED SOLAR ARRAY
NEXTGRID, INC.
376 NASH ROAD
NEW BEDFORD, MASSACHUSETTS

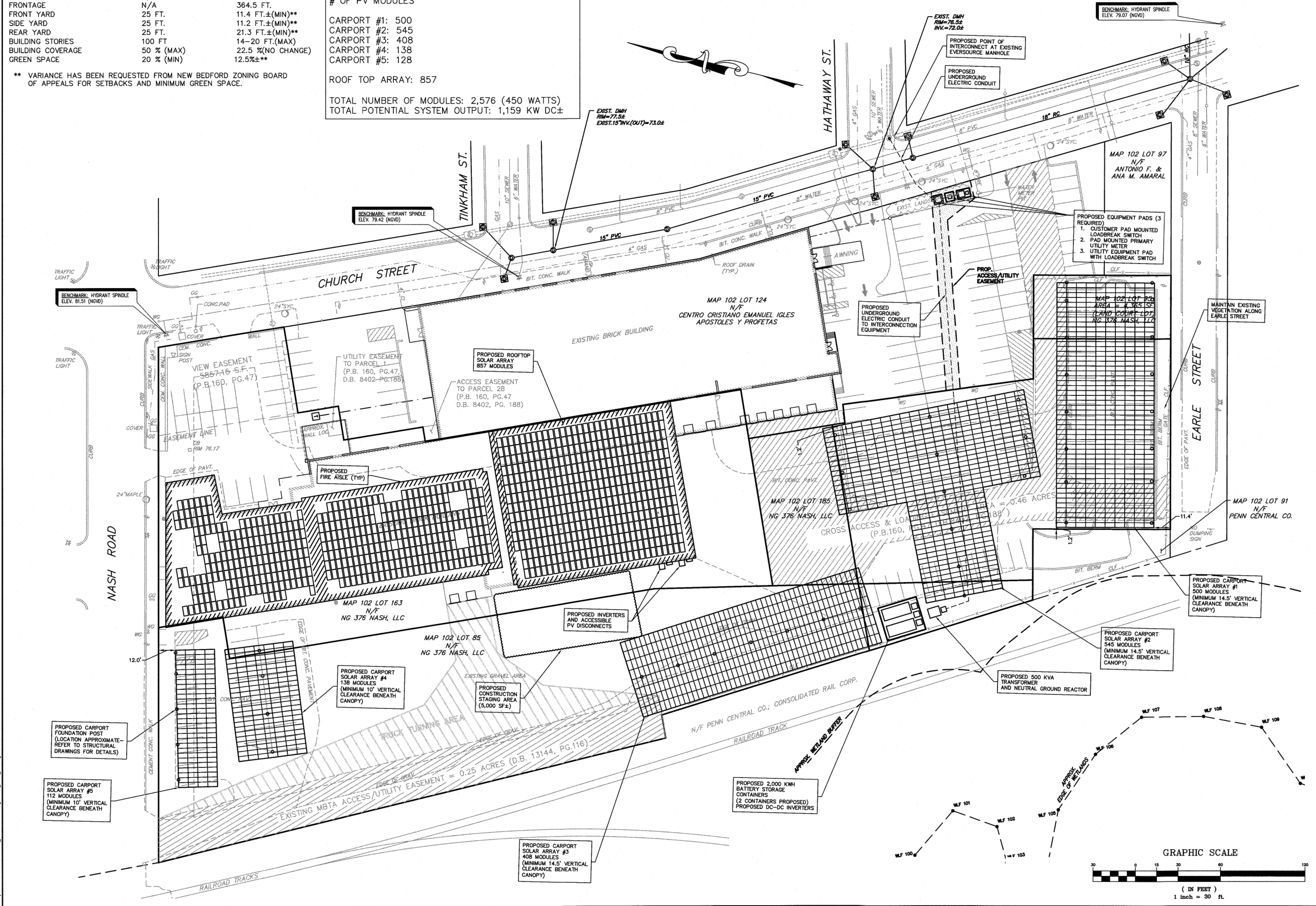
Drawing Title
EXISTING CONDITIONS
Project No. 2399
Sheet 3 OF 6

EC-1

ZONING DISTRICT INDUSTRIAL "A"		
INTENSITY OF USE:	REQUIRED	PROVIDED
LOT AREA	N/A	3.8 AC. ±
FRONTAGE	N/A	364.5 FT.
FRONT YARD	25 FT.	11.4 FT.±(MIN)**
SIDE YARD	25 FT.	11.2 FT.±(MIN)**
REAR YARD	25 FT.	21.3 FT.±(MIN)**
BUILDING STORIES	100 FT	14-20 FT.(MAX)
BUILDING COVERAGE	50 % (MAX)	22.5 %(NO CHANGE)
GREEN SPACE	20 % (MIN)	12.5%±**

** VARIANCE HAS BEEN REQUESTED FROM NEW BEDFORD ZONING BOARD OF APPEALS FOR SETBACKS AND MINIMUM GREEN SPACE.

PV SYSTEM SUMMARY	
# OF PV MODULES	
CARPORT #1: 500	
CARPORT #2: 545	
CARPORT #3: 408	
CARPORT #4: 138	
CARPORT #5: 128	
ROOF TOP ARRAY: 857	
TOTAL NUMBER OF MODULES: 2,576 (450 WATTS)	
TOTAL POTENTIAL SYSTEM OUTPUT: 1,159 KW DC±	

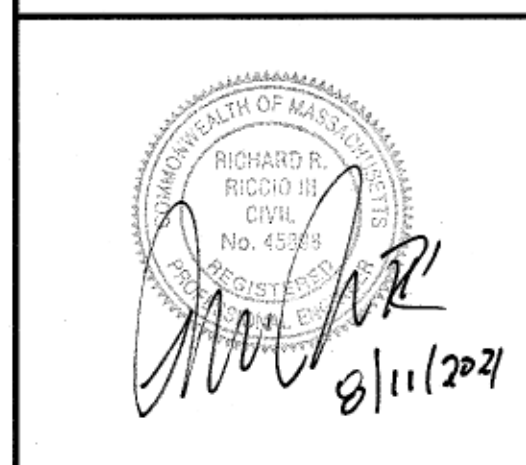


FIELD ENGINEERING CO., INC.
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110 INDUSTRIAL DRIVE
P.O. BOX 1178
MATTAPAN, MA 02726
TEL: (508) 758-2749
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Revisions			
No.	Description	Date	Appr.
1	REVISED PER INITIAL CITY REVIEW	8/10/21	RRR

Date	7/12/2021
Scale	1"=30'
Drawn By	RMS
Designed By	RRR
Checked By	RRR

Issued For
PERMITTING



PROPOSED SOLAR ARRAY
NEXTGRID, INC.
376 NASH ROAD
NEW BEDFORD, MASSACHUSETTS

Drawing Title	
SITE LAYOUT & UTILITIES PLAN	
Project No.	Sheet
2399	4 OF 6

SLU-1

[illegible]

Scale $1"=30'$

Drawn By RMS	Designed By RRR	Checked By RRR
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Rate	Rate	Rate
Issued For		

PERMITTING



PROPOSED SOLAR ARRAY
NEXTGRID, INC.

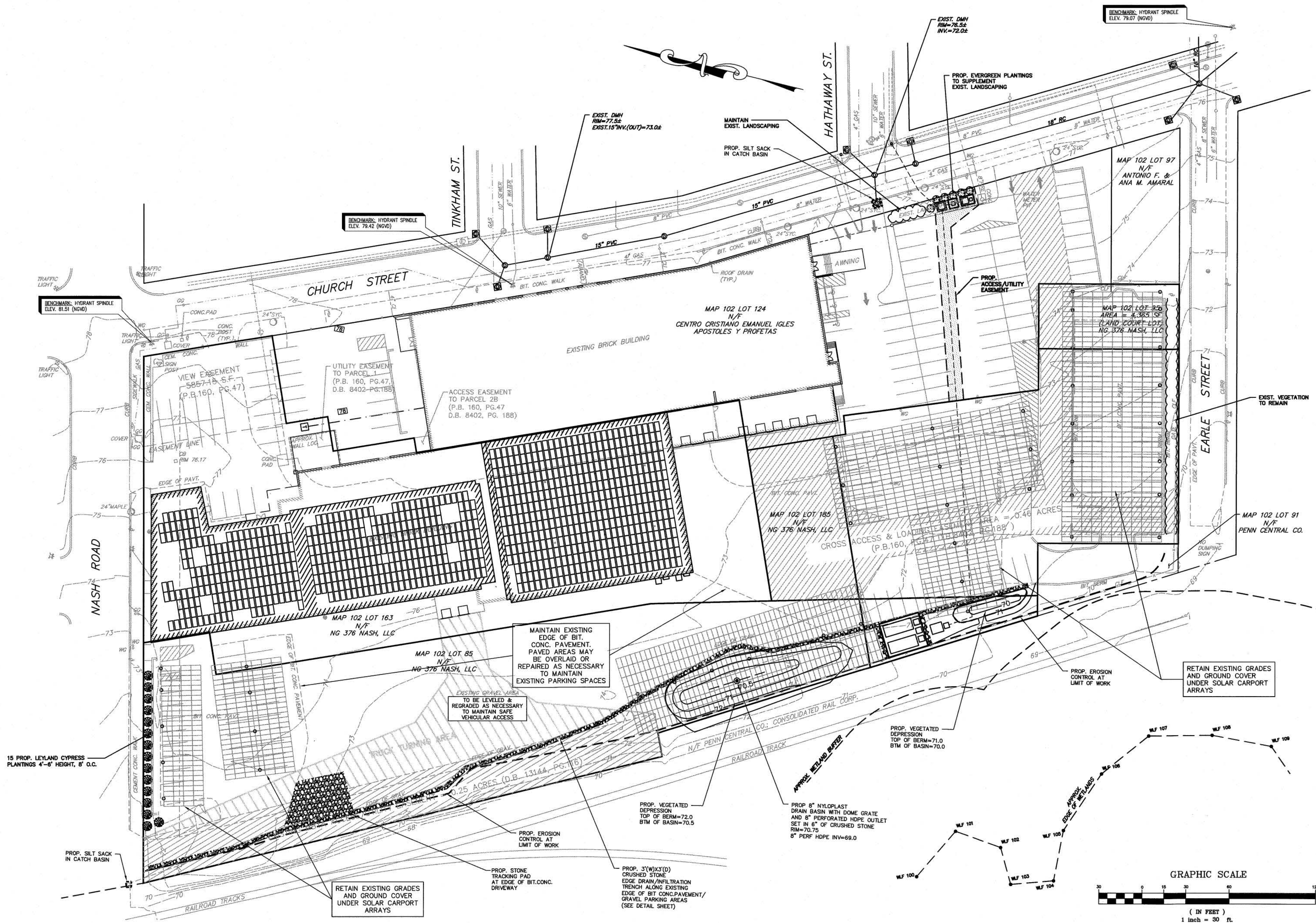
376 NASH ROAD
NEW BEDFORD, MASSACHUSETTS

Drawing Title

**SITE GRADING
& DRAINAGE PLAN**

Project No.	Sheet
2399	5 OF 6

SGD-1



[illegible]

1	REVISED PER INITIAL CITY REVIEW	8/10/21	RRR
No.	Description	Date	Appv
Date 7/12/2021			

Scale	AS NOTED
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Drawn By RMS	Designed By RRR	Checked By RRR
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Issued For

PERMITTING



**PROPOSED SOLAR ARRAY
NEXTGRID, INC.**

376 NASH ROAD
NEW BEDFORD, MASSACHUSETTS

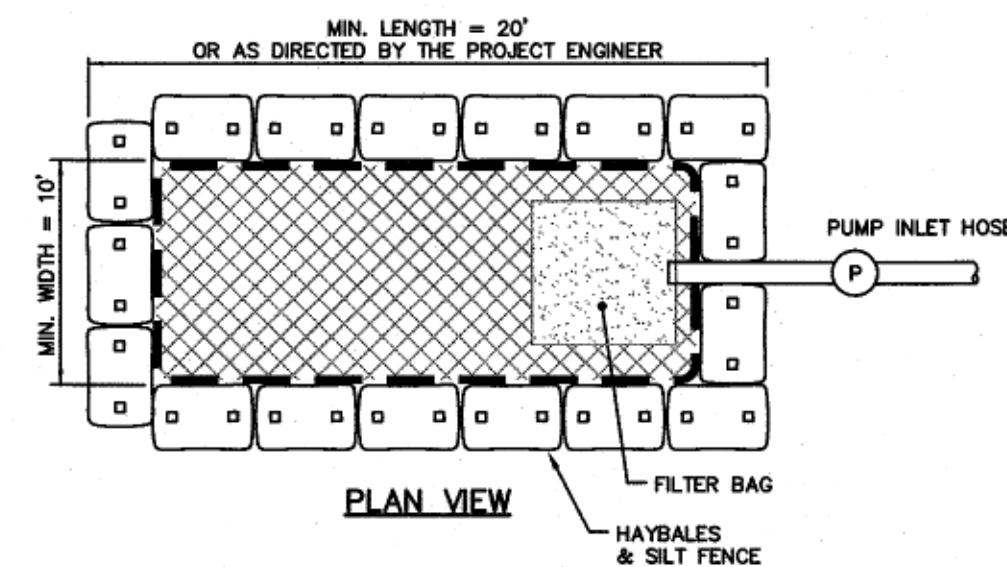
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DETAIL
SHEET

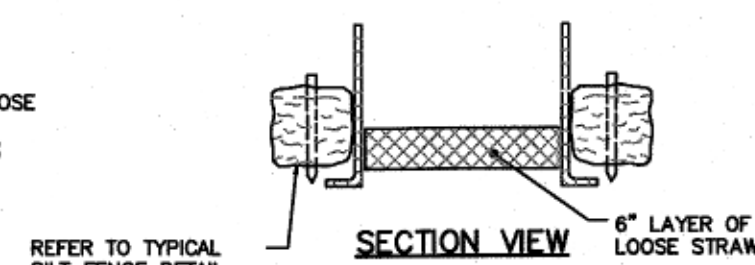
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Sheet
6 OF 6

SD-1

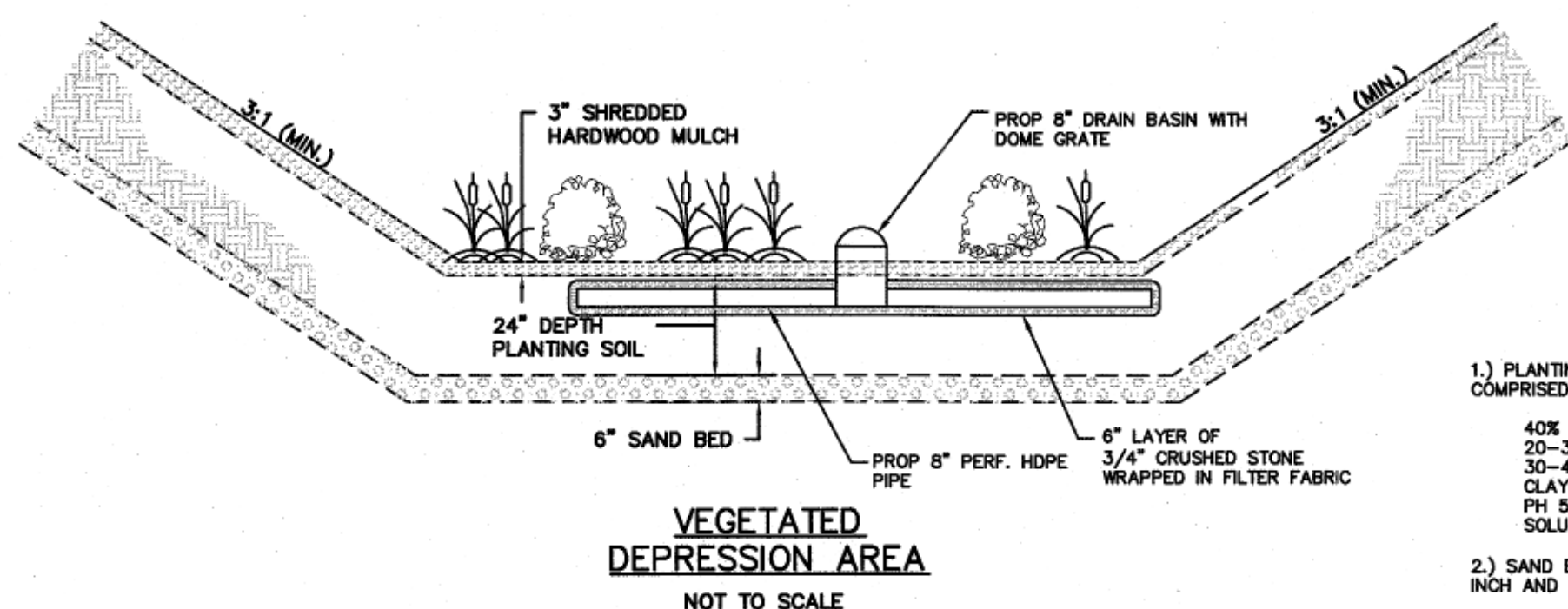


DEWATERING BASIN
NOT TO SCALE



DEWATERING SPECIFICATIONS

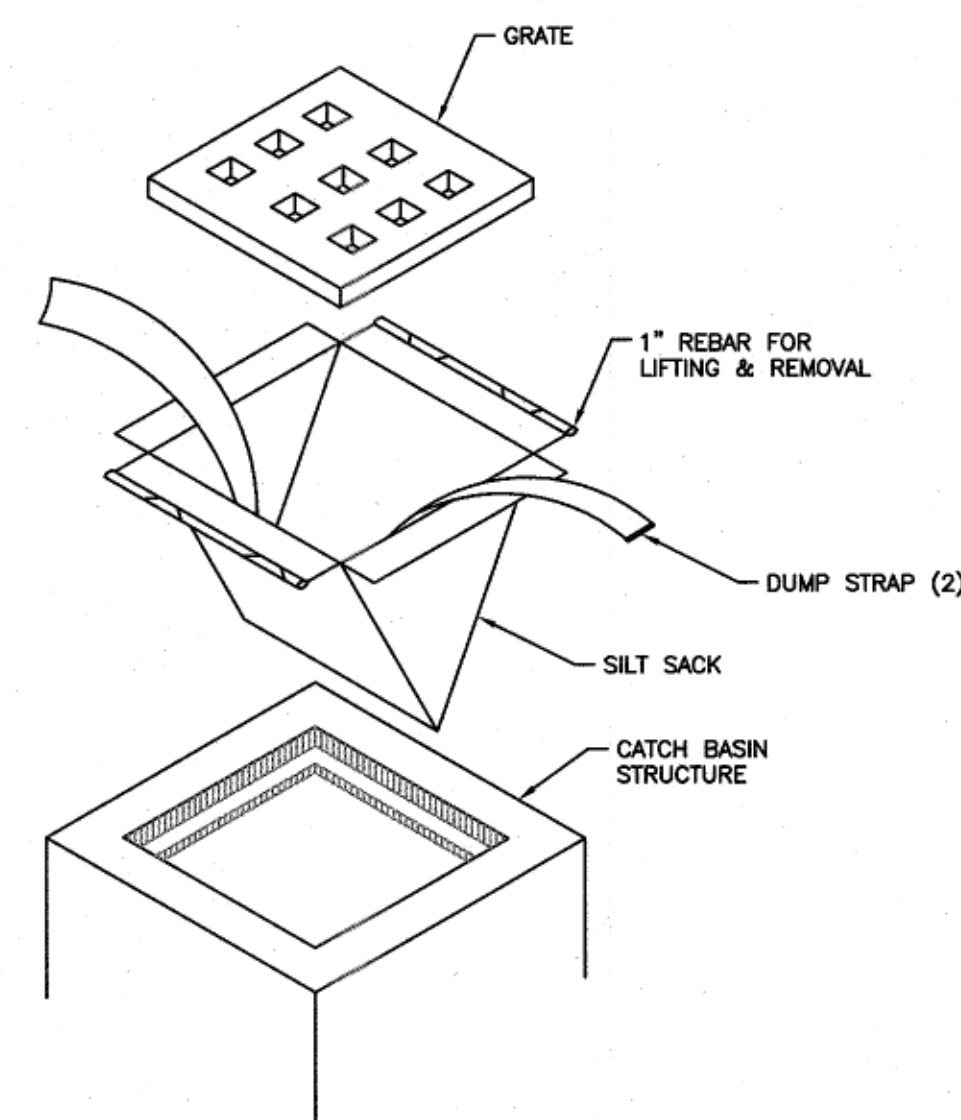
1. DEWATERING BASINS SHALL BE CONSTRUCTED BEFORE ANY DEWATERING OPERATION COMMENCE. DISCHARGE FROM THE DEWATERING BASINS SHALL BE DIRECTED TO THE NEAREST DRAINAGE OUTFALL.
2. HAY BALES/SILT DEWATERING BASINS SHALL BE CONSTRUCTED BEFORE DEWATERING BEGINS.
3. ALL SEDIMENT SHALL BE REMOVED AND FINISHED GRADES RESTORED UPON COMPLETION OF DEWATERING OPERATIONS.
4. TRENCHING OPERATIONS FOR CONDUIT INSTALLATION MAY REQUIRE DEWATERING.



- 1.) PLANTING SOIL MIX SHALL BE A MIXTURE OF SAND COMPOST AND SOIL COMPRISED OF THE FOLLOWING:

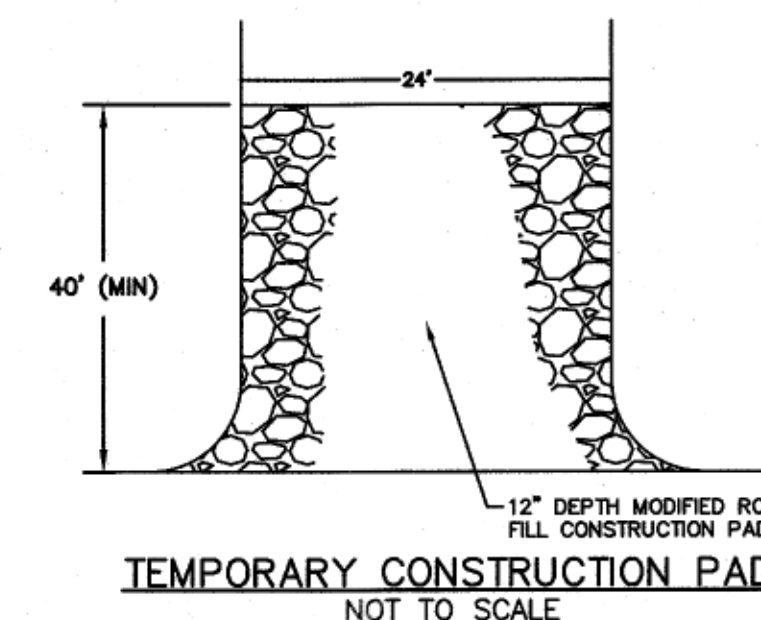
- 40% SAND
20-30% SCREENED TOPSOIL
30-40% COMPOST
CLAY CONTENT <5%
PH 5.5-6.5
SOLUBLE SALT < 500 PPM

- 2.) SAND BED SHALL CONFORM TO ASTM D422 MAX. STONE SIZE - 3/4 INCH AND NO GREATER THAN 3.0% PASSING NO. 200 SIEVE.
- 3.) BOTTOM AREA AND SIDE SLOPES SHALL BE PLANTED WITH NEW ENGLAND WETLAND SEED MIX AND SUPPLEMENTED WITH A NUMBER OF SHADE TOLERANT PLANTS. NUMBER AND SPECIES TO BE COORDINATED WITH THE OWNER PRIOR TO CONSTRUCTION.



1. INSTALL SILT SACK PER MANUFACTURER'S INSTRUCTIONS & RECOMMENDATIONS. EMPTY OR REMOVE SEDIMENT FROM SILT SACK WHEN RESTRAINT CORD IS NO LONGER VISIBLE. CLEAN, RINSE, & REPLACE AS NEEDED.
2. SILT SACKS TO BE INSTALLED DURING CONSTRUCTION OPERATIONS WHEN THE POTENTIAL FOR SEDIMENT TO ENTER EXISTING & PROPOSED BASINS EXISTS.

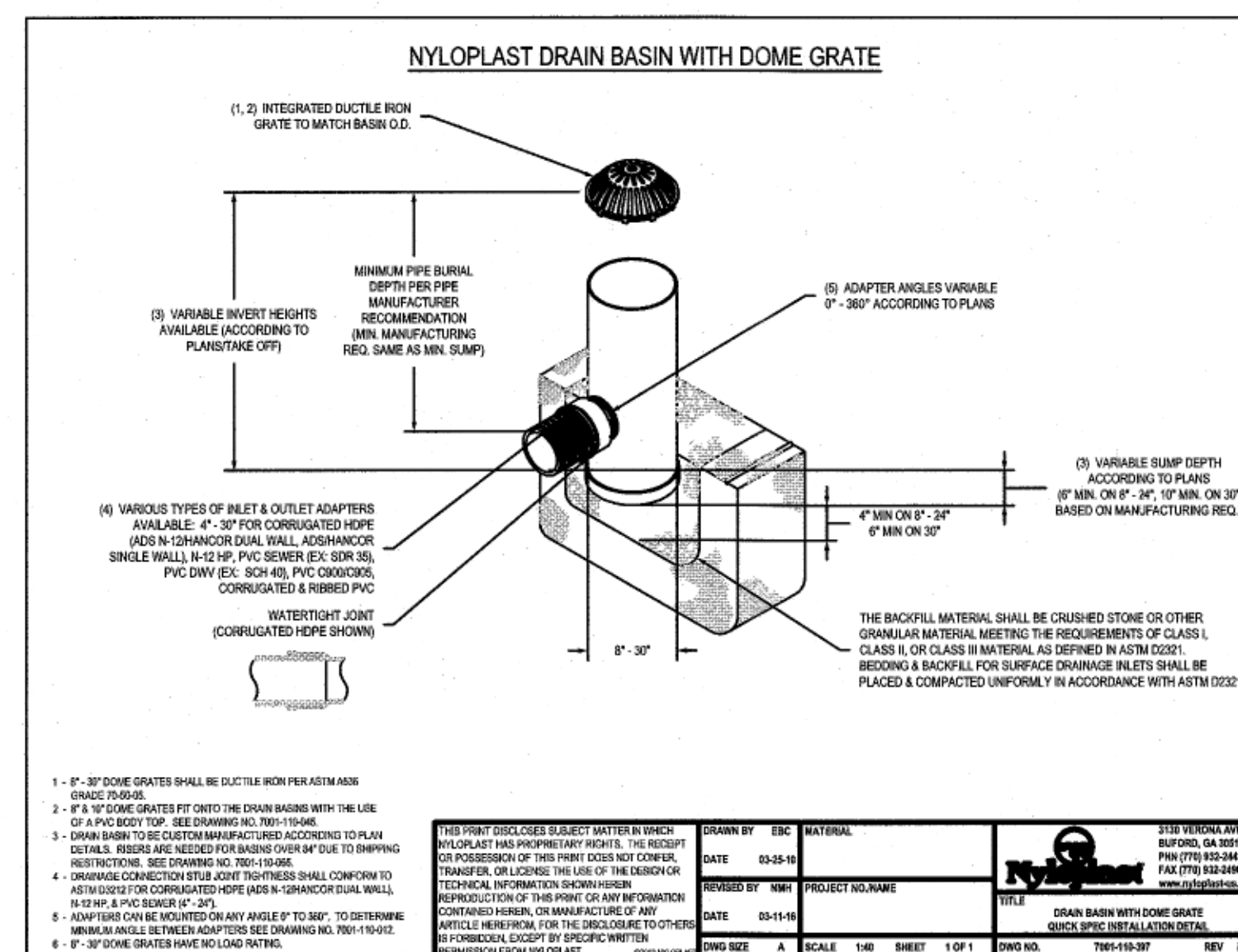
SILT SACK DETAIL
NOT TO SCALE



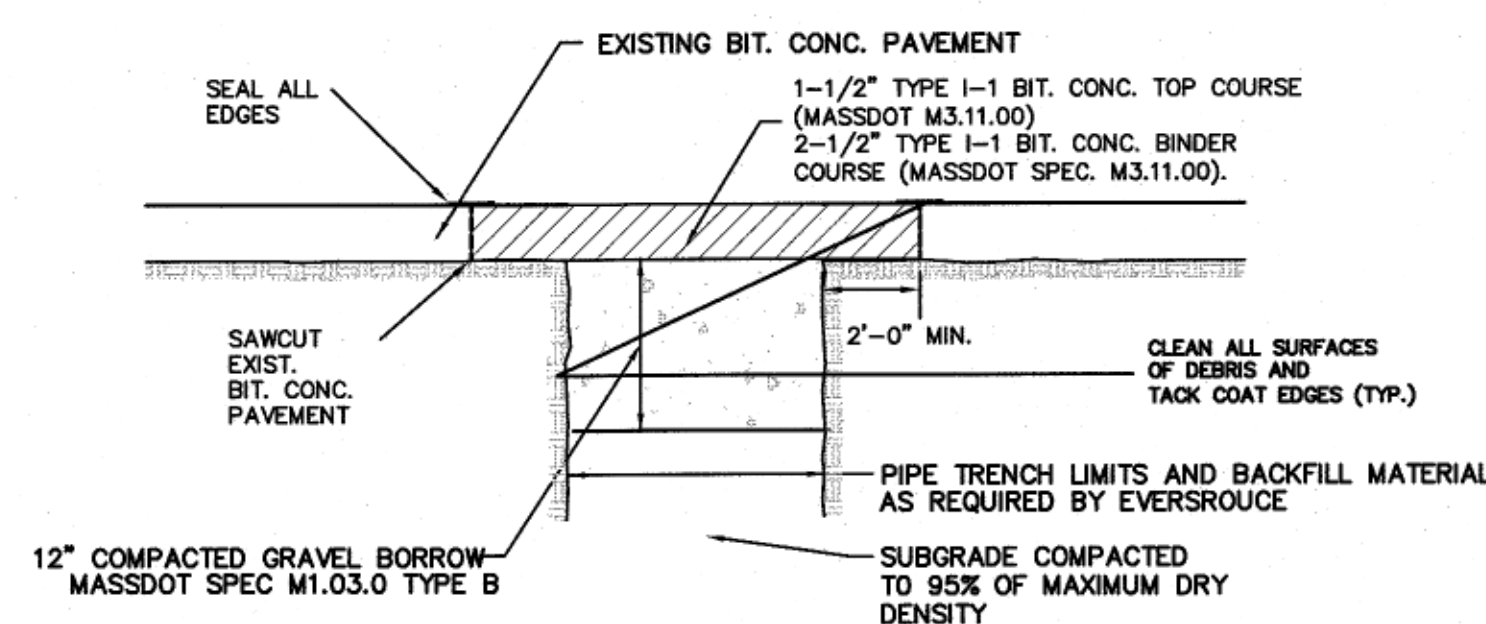
- NOTE: TEMPORARY CONSTRUCTION PADS TO BE PLACED AT ALL CONSTRUCTION ENTRANCES TO MINIMIZE TRACKING ONTO THE ROADWAY SURFACE.

NOTES:

1. FIBER ROLL AND SILT FENCE EROSION CONTROLS SHALL BE INSTALLED DOWN SLOPE OF ALL PROPOSED AND EXISTING DISTURBED AREAS, OR AS SHOWN ON THE PLANS.
2. EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL VEGETATIVE COVER HAS BEEN FIRMLY ESTABLISHED.
3. EROSION CONTROL MEASURES SHALL FOLLOW THE PERFORMANCE STANDARDS OF THE USDA SOIL CONSERVATION SERVICE, AND ANY APPLICABLE STATE/LOCAL CONSERVATION AUTHORITY.

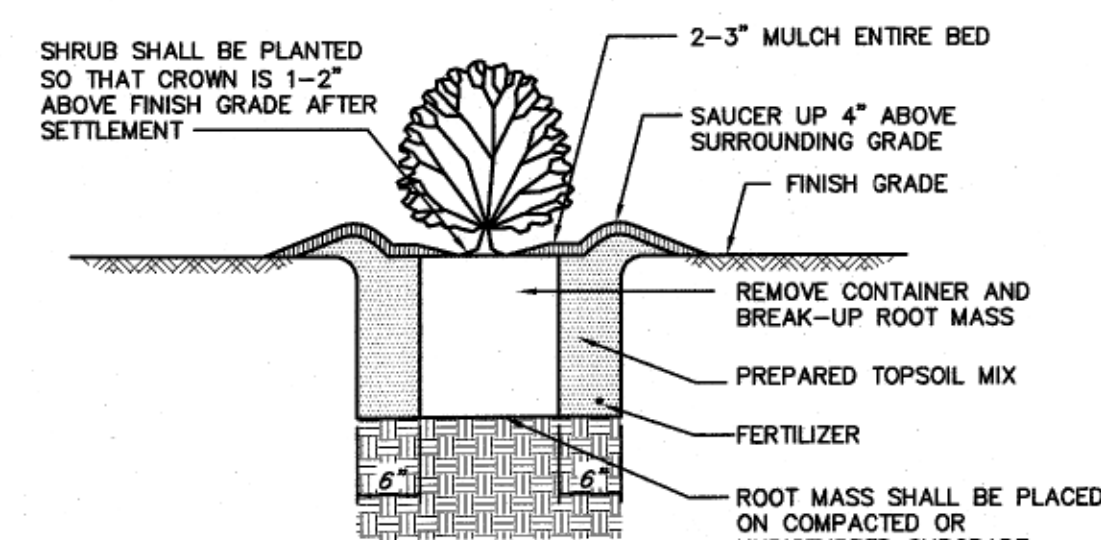
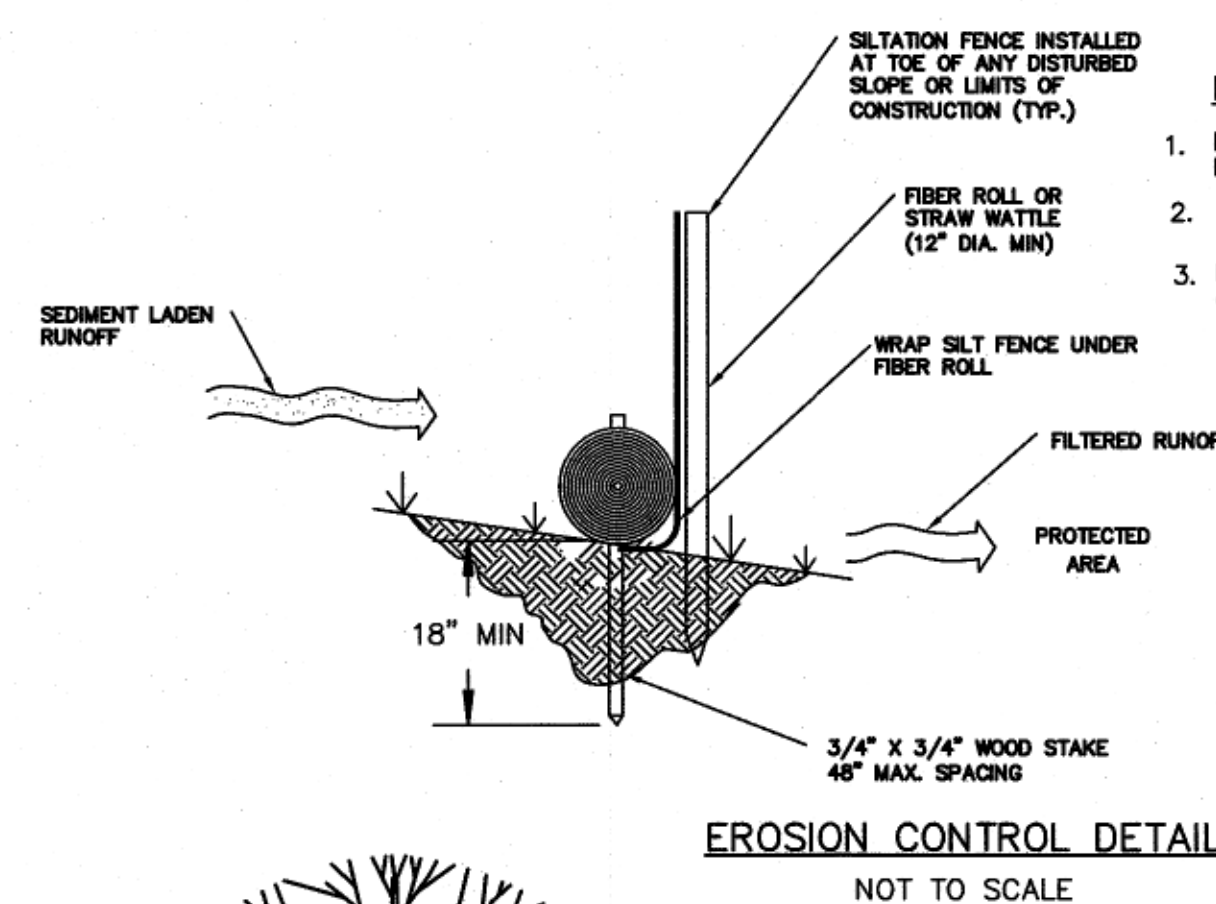


NYLOPLAST DRAIN BASIN
NOT TO SCALE



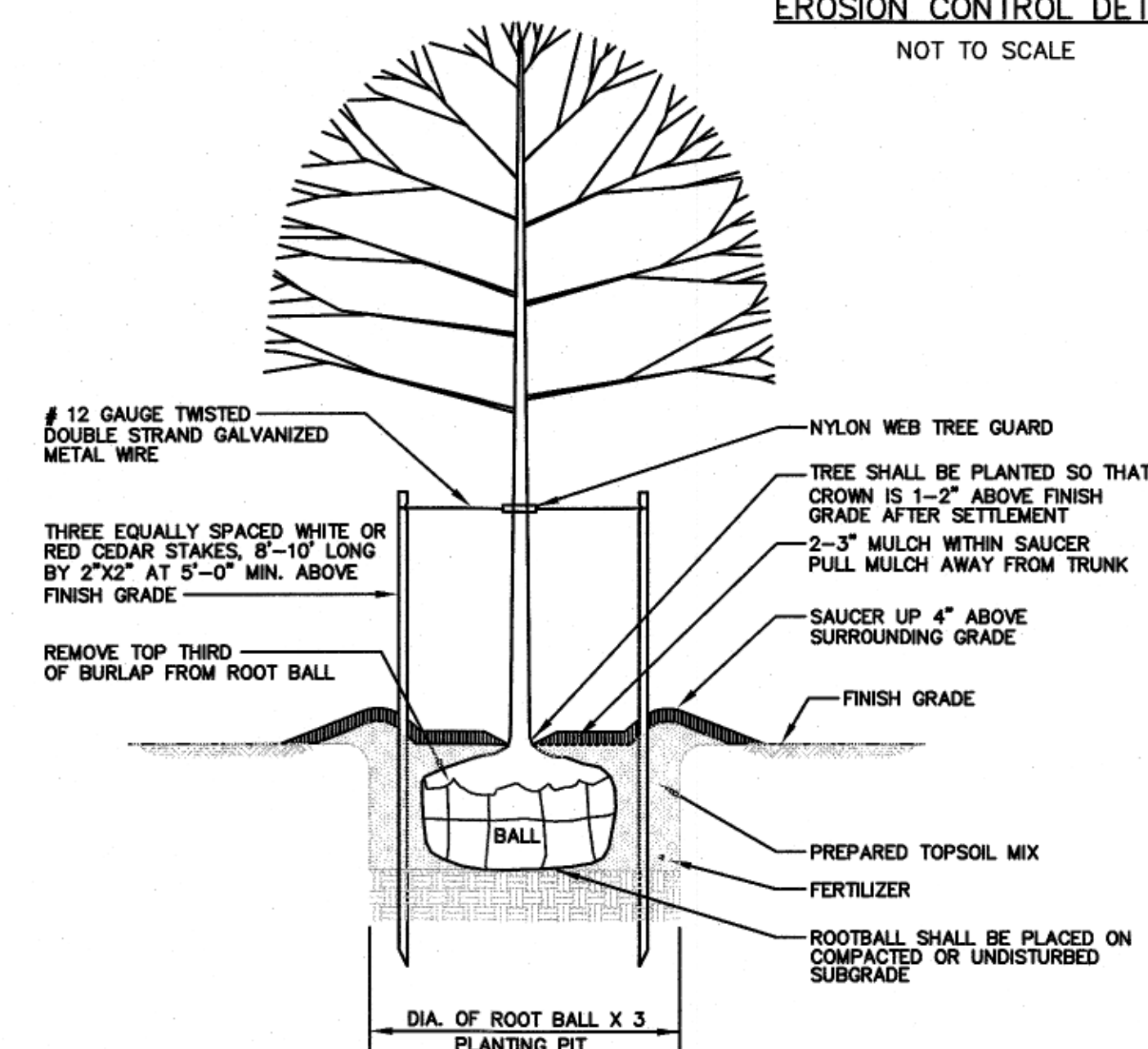
PAVEMENT RESTORATION

- NOTES:** NOT TO SCALE
1. PAVEMENT RESTORATION SHALL CONFORM TO LATEST CITY OF NEW BEDFORD DEPARTMENT OF PUBLIC INFRASTRUCTURE CONSTRUCTION STANDARDS AND SPECIFICATIONS



- 1.) PREPARED TOPSOIL MIX SHALL CONSIST OF HIGH ORGANIC SOIL NO LESS THAN 10% ORGANIC MATTER.
- 2.) ALL PLANTS SHALL BE FLOODED WITH WATER TWICE WITHIN THE FIRST TWENTY-FOUR HOUR PERIOD AFTER PLANTING.

SHRUB PLANTING DETAIL
NOT TO SCALE



- 1.) PREPARED TOPSOIL MIX SHALL CONSIST OF HIGH ORGANIC SOIL WITH NO LESS THAN 10% ORGANIC MATTER.
- 2.) ALL PLANTS SHALL BE FLOODED WITH WATER TWICE WITHIN THE FIRST TWENTY-FOUR HOUR PERIOD AFTER PLANTING.

TREE PLANTING DETAIL
NOT TO SCALE