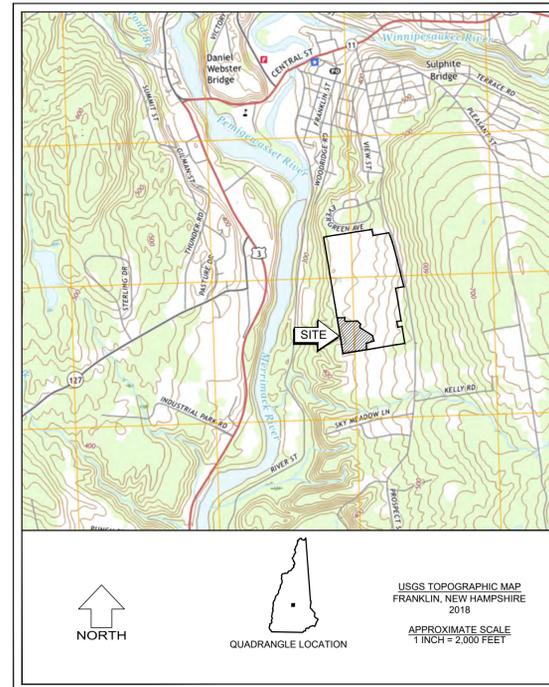


MOJALAKI SOLAR DEVELOPMENT

321 PROSPECT STREET FRANKLIN, NEW HAMPSHIRE

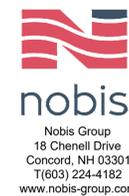
SITE ENGINEER
NOBIS GROUP - CONCORD, NH
DEVELOPER
GSSG NEW HAMPSHIRE, LLC - PORTSMOUTH, NH
SOLAR CONTRACTOR
PRECISION SOLAR RENEWABLES -
LONG ISLAND CITY, NY
LAND SURVEYOR
HAYNER/SWANSON, INC - NASHUA, NH



SHEET INDEX

I.D.	NO.	DRAWING NAME
CS		COVER SHEET
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NOVEMBER 25, 2020
REVISED JANUARY 13, 2021



NOBIS PROJECT NO. 95771.01

LEGEND

EXISTING	PROPOSED	EXISTING	PROPOSED	DESCRIPTION
---	---	---	---	SUBJECT PROPERTY LINE
---	---	---	---	OTHER PROPERTY LINE
---	---	---	---	SETBACKS
---	---	---	---	EASEMENT
---	---	---	---	SANITARY SEWER MANHOLE
---	---	---	---	RETAINING WALL
---	---	---	---	EDGE OF WETLAND
---	---	---	---	STREAM / RIVER
---	---	---	---	TREE LINE
---	---	---	---	CHAIN LINK FENCE
---	---	---	---	STOCKADE FENCE
---	---	---	---	GUARDRAIL (STEEL)
---	---	---	---	GUARDRAIL (WOOD)
---	---	---	---	CENTERLINE
---	---	---	---	EDGE OF GRAVEL
---	---	---	---	EDGE OF PAVEMENT
SGC	SGC	---	---	SLOPED GRANITE CURB
VGC	VGC	---	---	VERTICAL GRANITE CURB
VCC	VCC	---	---	VERTICAL CONCRETE CURB
BCC	BCC	---	---	BITUMINOUS CONCRETE CURB
CC	CC	---	---	CONCRETE CURB
CCB	CCB	---	---	CAPE COD BERM
TB	TB	---	---	TIP DOWN
100	100	---	---	MAJOR CONTOUR
98	98	---	---	MINOR CONTOUR
D	D	---	---	DRAIN LINE
RD	RD	---	---	ROOF DRAIN
UD	UD	---	---	UNDER DRAIN
FD	FD	---	---	FOUNDATION DRAIN
>	>	---	---	SWALE FLOW DIRECTION
X	X	---	---	SILT FENCE / WATTLE
OHW	OHW	---	---	OVERHEAD UTILITY WIRE
UGE	UGE	---	---	UNDERGROUND ELECTRIC
T	T	---	---	UNDERGROUND TELECOM
S	S	---	---	SANITARY SEWER LINE
SS	SS	---	---	SANITARY SEWER SERVICE
FM	FM	---	---	SANITARY SEWER FORCE MAIN
W	W	---	---	WATER LINE
WS	WS	---	---	WATER SERVICE
G	G	---	---	GAS LINE
ST	ST	---	---	STEAM LINE
FO	FO	---	---	FIBER OPTIC LINE
---	---	---	---	ZONING BOUNDARY LINE
---	---	---	---	FLOOD ZONE LINE

GENERAL NOTES:

- THESE DRAWINGS SHOULD BE REVIEWED IN CONJUNCTION WITH THE ACCOMPANYING DESIGN REPORT TITLED "STORMWATER MANAGEMENT REPORT FOR MOJALAKI SOLAR DEVELOPMENT, 321 PROSPECT STREET, FRANKLIN, NH" DATED NOVEMBER 25, 2020 PREPARED BY NOBIS GROUP.
- EXISTING CONDITIONS, TOPOGRAPHICAL INFORMATION, NORTH ORIENTATION, NORTH ARROW, AND COORDINATE VALUES DEPICTED ON THESE DRAWINGS ARE BASED ON PLANS TITLED "EXISTING CONDITIONS PLAN (MAP 119 PORTION OF LOT 402)", DATED JULY 29, 2020, BY HAYNER/SWANSON, INC.
- THESE DRAWINGS AND ACCOMPANYING TEXT HAVE BEEN PREPARED FOR GSSG NEW HAMPSHIRE, LLC. FOR REVIEW BY THE CITY OF FRANKLIN PLANNING BOARD, CODE ENFORCEMENT, GENERAL SERVICES, POLICE, AND FIRE DEPARTMENTS.
- THE CONTRACTOR SHALL OBTAIN COVERAGE UNDER EPA NPDES GENERAL PERMIT FOR STORM WATER DISCHARGES FOR CONSTRUCTION ACTIVITIES PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND IMPLEMENTING AN ENVIRONMENTAL PROTECTION AGENCY (EPA) STORM WATER POLLUTION PREVENTION PLAN PRIOR TO THE START OF CONSTRUCTION AND DURING CONSTRUCTION ON-SITE IN ACCORDANCE WITH THE EPA REGULATIONS UNDER THE CLEAN WATER ACT.
- THE PROJECT SHALL BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430.53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.
- WILDLIFE-FRIENDLY EROSION CONTROL MESH, IF NEEDED, SHALL BE NORTH AMERICAN GREEN SC150BN.
- ALL SOLAR ARRAY PANELS WILL BE INSTALLED IN ACCORDANCE WITH THE FEBRUARY 2020 NHDES SOLAR DESIGN GUIDANCE DOCUMENTS. PANELS WILL BE INSTALLED TO PROMOTE SHEET FLOW AND WILL BE AT A MINIMUM 15 DEGREES FROM PERPENDICULAR WITH SLOPE CONTOUR LINES. THE AREA BENEATH THE DRIP EDGE OF ALL PANELS WILL BE MONITORED DURING CONSTRUCTION ACTIVITIES. SIGNS OF EROSION WILL BE ADDRESSED IMMEDIATELY WITH THE PLACEMENT OF STONE, COMPOST MULCH, WOOD CHIPS OR EROSION CONTROL MATTING, AS DETAILED IN THESE SITE PLAN DRAWINGS.
- IN ACCORDANCE WITH RSA 485-A:17, TERRAIN ALTERATION, THIS SOLAR ENERGY PROJECT WILL REQUIRE AN ALTERATION OF TERRAIN PERMIT APPROVAL FROM THE NHDES. THE CITY OF FRANKLIN WILL RECEIVE COPIES OF THE AOT PERMIT APPLICATION AND SITE PLAN DRAWINGS FOR REVIEW AND COMMENT. CONSTRUCTION WILL COMMENCE ONLY AFTER RECEIVING FINAL APPROVAL FROM THE NHDES AND CITY OF FRANKLIN PLANNING BOARD.

EXISTING	PROPOSED	DESCRIPTION
⊙	⊙	DRAIN MANHOLE
⊕	⊕	CATCH BASIN
⊙	⊙	UTILITY POLE
⊕	⊕	PAD MOUNTED TRANSFORMER
⊕	⊕	SANITARY SEWER MANHOLE
⊕	⊕	SANITARY SEWER CLEAN-OUT
⊕	⊕	HYDRANT
⊕	⊕	WATER VALVE
⊕	⊕	WATER SHUT OFF
⊕	⊕	WATER SUPPLY WELL
⊕	⊕	GAS SHUT OFF
⊕	⊕	GAS METER
⊕	⊕	SPOT GRADE
⊕	⊕	CURB SPOT GRADE
⊕	⊕	SIGN POST
⊕	⊕	LIGHT POLE
⊕	⊕	TREE
⊕	⊕	CONCRETE
⊕	⊕	GRAVEL
⊕	⊕	RIP RAP
⊕	⊕	WETLAND
⊕	⊕	WETLAND IMPACT
⊕	⊕	FLOW DIRECTION
⊕	⊕	STONE CHECK DAM
⊕	⊕	INLET PROTECTION
⊕	⊕	SLOPE & DIRECTION
⊕	⊕	TEST PIT LOCATION
⊕	⊕	BORING LOCATION
⊕	⊕	MONITORING WELL LOCATION
⊕	⊕	PERC. TEST LOCATION
⊕	⊕	PHOTO LOCATION / DIRECTION
⊕	⊕	MANHOLE
⊕	⊕	TELECOM MANHOLE
⊕	⊕	ELECTRIC MANHOLE
⊕	⊕	STEEP SLOPE

CONSTRUCTION SEQUENCE:

- INSTALL ORANGE CONSTRUCTION SAFETY FENCING IMMEDIATELY OUTSIDE THE EDGE OF WETLAND AREAS PRIOR TO START OF CONSTRUCTION.
- CONSTRUCT TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO ANY EARTH MOVING OPERATIONS. DETENTION/SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO GRUBBING OF UPGRADIENT AREAS. BASINS SHALL BE SIZED TO HOLD RUNOFF FROM A 2-YEAR STORM EVENT DURING CONSTRUCTION (BARE EARTH CONDITION).
- INSPECT EROSION AND SEDIMENT CONTROL MEASURES WEEKLY AND WITHIN 24 HOURS OF ANY SIGNIFICANT RAINFALL EVENT (1/2" OF RAIN OR MORE). PERFORM ANY NEEDED MAINTENANCE AND STABILIZATION AS NEEDED.
- DISTURBANCES OF AREAS SHALL BE MINIMIZED. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED FOR LONGER THAN TWO WEEKS. AREAS WHICH WILL NOT BE PERMANENTLY SEEDED WITHIN TWO WEEKS OF DISTURBANCE SHALL BE TEMPORARILY SEEDED AND MULCHED. ALL AREAS SHALL BE STABILIZED WITH SEED MULCH AND TACKIFIER WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE AND PRIOR TO THE END OF THE GROWING SEASON. MULCH/TACKIFIER SHALL REMAIN IN PLACE THROUGHOUT CONSTRUCTION.
- PLACE, GRADE, AND STABILIZE DISTURBED AREAS WITH TEMPORARY SEEDING AND MULCHING. DISTURBANCE (PLANNED OR INCIDENTAL) SHALL BE LIMITED TO 5 ACRES IN AREA AT ANY ONE TIME. GROUND SURFACE SHALL BE PERMANENTLY STABILIZED WITH 85% VEGETATIVE COVER ESTABLISHMENT, 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP, OR PROPERLY INSTALLED EROSION CONTROL BLANKETS PRIOR TO ANY ADDITIONAL DISTURBANCE OR MOVING TO THE NEXT SEQUENTIAL PHASE OF CONSTRUCTION.
- PERFORM CLEARING TO LIMITS SHOWN ON SITE PLAN.
- GRUB AREAS FOR ROAD AND DETENTION/SEDIMENT BASINS. STUMPS SHALL BE GROUND AND USED FOR TEMPORARY EROSION CONTROL OR SHALL BE DISPOSED OF AT AN APPROVED OFF-SITE FACILITY.
- CONSTRUCT GRAVEL ROAD AND DETENTION/SEDIMENT BASINS. MODIFY (BLOCK) DETENTION POND OUTLET TO RETAIN 2-YEAR STORM SUCH THAT DETENTION POND ACTS AS SEDIMENTATION BASIN DURING CONSTRUCTION. STABILIZE ROAD WITH GRAVEL AND DETENTION BASIN WITH HYDROSEED AND EROSION CONTROL MATTING.
- CONSTRUCT WOOD MULCH TRAVEL PATHWAYS (10' WIDE x 6" THICK) FOR CONSTRUCTION EQUIPMENT.
- STABILIZE SOLAR ARRAY AREA WITH SEED AND HAY MULCH.
- CONDUCT UNDERGROUND UTILITY CONDUIT INSTALLATION, BACKFILL, AND COMPACTING.
- INSTALL SOLAR FOUNDATIONS, VERTICAL SUPPORTS, RACKING SYSTEM, PHOTOVOLTAIC ARRAYS AND ELECTRICAL COMPONENTS ACCORDING TO THE SITE PLAN AND ASSOCIATED DETAILS.
- ALL CUT AND FILL SLOPES SHALL BE STABILIZED, LOAMED, SEEDED, AND MULCHED. STABILIZE REMAINING DISTURBED AREAS WITH SEED AND MULCH. TOUCH UP AREAS DISTURBED BY SOLAR ARRAY INSTALLATION.
- UPON VEGETATIVE COVER ESTABLISHMENT, OPEN DETENTION BASIN OUTFALL FOR STORMWATER MANAGEMENT.
- REMOVE AND PROPERLY DISPOSE OF TEMPORARY EROSION CONTROL MEASURES FOLLOWING CONSTRUCTION AND ONCE FULL GROUND COVER HAS BEEN ESTABLISHED.

TOTAL PROJECT AREA	AREA OF CLEARING & GRUBBING	AREA OF CLEARING (NOT GRUBBED)	AREA OF STORMWATER PONDS & ROAD	AREA OF SITE GRADING (NOT PONDS)
9.7 ACRES	1.6 ACRES	1.8 ACRES	1.0 ACRES	4.4 ACRES

STORMWATER POND(S) SHALL BE SIZED TO HOLD RUNOFF FROM A 2-YEAR STORM EVENT DURING CONSTRUCTION (BARE EARTH CONDITION).

EROSION CONTROL NOTES:

- PERIMETER CONTROLS SHALL BE INSTALLED PRIOR TO EARTH MOVING OPERATIONS. WHERE INSTALLED WITHIN 50-FEET OF WETLANDS, PROVIDE TWO ROWS OF SILT FENCE.
- ALL SWALES SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF INTO THEM.
- ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY HALF-INCH OF RAINFALL.
- SCHEDULE OF WORK**
CONSTRUCTION IS ANTICIPATED TO BEGIN JUNE 1, 2021 WITH A FINAL COMPLETION DATE IN FALL 2021. TREE CUTTING WILL OCCUR OVER WINTER MONTHS PRIOR TO APRIL. IN ORDER TO AVOID IMPACTS TO NORTHERN LONG-EARED BATS.
- ADEQUATE MEASURES SHOULD BE TAKEN TO MINIMIZE AIR BORNE DUST PARTICLES ARISING FROM SOIL DISTURBANCE AND CONSTRUCTION.
- * DISTURBANCE OF AREAS SHOULD BE MINIMIZED AND NOT EXCEED 5 ACRES IN AREA AT ANY ONE TIME.
 - * NO DISTURBED AREA SHOULD BE LEFT UNSTABILIZED FOR LONGER THAN TWO WEEKS DURING THE GROWING SEASON.
 - * PERMANENT EROSION CONTROL FEATURES SHOULD BE INCORPORATED INTO THE PROJECT AT THE EARLIEST PRACTICABLE TIME, AS SPECIFIED ON THE CONTRACT PLANS.
 - * WITHIN 14 DAYS OF COMPLETING WORK IN AN AREA, AND PRIOR TO ANTICIPATED RAIN EVENTS, APPLY HAY/STRAW MULCH AND TACKIFIER ON ALL DISTURBED SOIL AREAS. APPLICATION RATES OF 2 TONS OF STRAW OR HAY PER ACRE (3-4 TONS AFTER OCTOBER 15) SHOULD BE USED TO PREVENT EROSION UNTIL VEGETATIVE COVER CAN BE ESTABLISHED. ALTERNATIVELY, APPLY WOOD CHIPS OR GROUND BARK MULCH 2 TO 6 INCHES DEEP AT A RATE OF 10 TO 20 TONS PER ACRE.
 - * WHEN EROSION IS LIKELY TO BE A PROBLEM, GRUBBING OPERATION SHOULD BE SCHEDULED AND PERFORMED SUCH THAT GRADING OPERATION AND PERMANENT EROSION CONTROL FEATURES CAN FOLLOW IMMEDIATELY THEREAFTER.
 - * PERMANENT EROSION CONTROL MEASURES SHOULD BE DONE AS REQUIRED ON AREAS PREVIOUSLY TREATED TO MAINTAIN OR ESTABLISH PROTECTIVE COVER.
 - * REMOVE ACCUMULATED SEDIMENTS AND DEBRIS WHEN SEDIMENT CONTAINMENT DEVICES REACH 33% CAPACITY.
- EROSION CONTROL IMPLEMENTATION SCHEDULE**
THE FOLLOWING GENERAL SCHEDULE IDENTIFIES THE PROPOSED SOIL EROSION AND SEDIMENT CONTROL AND STORM WATER MANAGEMENT MEASURES THAT ARE TO BE IMPLEMENTED PRIOR TO AND DURING CONSTRUCTION:
- * PERFORM LIMITED GRUBBING, STRIPPING AND SITE GRADING ONLY AS NEEDED TO COMPLETE IMMEDIATE WORK GOALS.
 - * BLOCK STORM WATER FLOW AS NECESSARY TO INSTALL ALL STORM WATER STRUCTURES IN THE DRY.
 - * INSTALL PERMANENT STORM DRAIN SYSTEM.
 - * INSTALL TEMPORARY SOIL STABILIZATION MEASURE INCLUDING SEED, MULCH, FERTILIZER, MATTING, ETC.
 - * REDIRECT FLOWS INTO FINISHED STRUCTURES PRIOR TO FILL OPERATIONS.
 - * PLACE HUMUS AND CONDUCT PERMANENT SEEDING AND MULCHING OF ALL DISTURBED GROUND.

TEMPORARY STABILIZATION:
EROSION CONTROL MEASURES SHALL BE IMPLEMENTED, AS WRITTEN HEREIN AND AS DEPICTED ON THE ACCOMPANYING PLAN, FROM THE COMMENCEMENT OF CONSTRUCTION ACTIVITY UNTIL FINAL STABILIZATION IS COMPLETE.

TEMPORARY GRADING: TEMPORARY GRADING DURING CONSTRUCTION SHOULD BE PERFORMED IN SUCH A MANNER TO FACILITATE MAXIMUM INFILTRATION OF STORMWATER AND MINIMIZE OR ELIMINATE STORMWATER RUNOFF FROM THE SITE.

MULCH: MULCHING WITH LOOSE HAY OR STRAW, AT A RATE OF 2 TONS PER ACRE, SHALL BE DONE IMMEDIATELY AFTER EACH AREA HAS BEEN FINAL GRADED. WHEN SEED FOR EROSION CONTROL IS SOWN PRIOR TO PLACING THE MULCH, THE MULCH SHOULD BE PLACED ON THE SEEDED AREAS WITHIN 48 HOURS AFTER SEEDING.

TACKIFIER: PLACEMENT OF SOIL TACKIFIER HAS PROVEN TO BE AN EFFECTIVE METHOD OF PREVENTING SOIL AND ADHERING MULCH IN PLACE. THE PLACEMENT OF A SOIL TACKIFIER SHOULD BE PERFORMED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS AND SHOULD BE REAPPLIED AS NECESSARY TO CONTROL AIR BORN DUST AND SOIL, AND MULCH LOSS UNTIL PERMANENT VEGETATION IS ESTABLISHED.

ROAD CLEANING: THE CONTRACTOR SHALL SWEEP ROADS DAILY, OR AS NEEDED TO MAINTAIN CLEAN PAVED SURFACES AT ALL CONSTRUCTION ACCESS/EGRESS POINTS.

DUST CONTROL: THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS NEEDED TO PREVENT AIRBORNE DUST PARTICLES FROM LEAVING THE SITE. DUST CONTROL MEASURES SHALL CONSIST OF USE OF A WATER TRUCK EQUIPPED WITH A SPRAY-BAR THAT DISSIPATES THE WATER EVENLY OVER THE SURFACE.

PERMANENT STABILIZATION: GRASS, TREES, SHRUBS AND MULCHED PLANTING BEDS WILL BE CONSTRUCTED AND MAINTAINED IN LOCATIONS AS SHOWN ON THE DRAWINGS TO STABILIZE AREAS NOT WITHIN THE PARKING LOT/BUILDING FOOTPRINT. THE CONTRACTOR WILL BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL FOR ONE YEAR AFTER COMPLETION.

AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
 1. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
 2. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
 3. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP RAP HAS BEEN INSTALLED;
 4. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

ALL ROADWAYS/PARKING AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.

EXCAVATION DEWATERING:
SHOULD EXCAVATION DEWATERING BE REQUIRED, THE CONTRACTOR MUST INSURE THAT ANY EXCAVATION DEWATERING DISCHARGES ARE NOT CONTAMINATED. NOTE: THE WATER IS CONSIDERED UNCONTAMINATED IF THERE IS NO GROUNDWATER CONTAMINATION WITHIN 1,000 FEET OF THE DISCHARGE.

THE CONTRACTOR MUST TREAT ANY UNCONTAMINATED EXCAVATION DEWATERING AS NECESSARY TO REMOVE SUSPENDED SOLIDS AND TURBIDITY DURING CONSTRUCTION. THE DISCHARGES MUST BE SAMPLED AT A LOCATION PRIOR TO MIXING WITH STORM WATER OR STREAM FLOW AT LEAST ONCE PER WEEK DURING WEEKS WHEN DISCHARGES OCCUR. THE SAMPLES MUST BE ANALYZED FOR TOTAL SUSPENDED SOLIDS (TSS) AND MUST MEET MONTHLY AVERAGE AND MAXIMUM DAILY TSS LIMITATIONS OF 50 MILLIGRAMS PER LITER (MG/L), RESPECTIVELY.

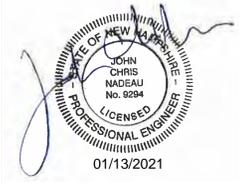
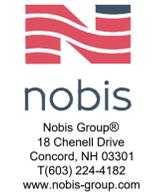
STORMWATER POLLUTION PREVENTION PLAN:
THE PROJECT IS SUBJECT TO THE REQUIREMENTS OF THE USEPA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION PERMIT, WHICH INCLUDES A WRITTEN STORM WATER POLLUTION PREVENTION (SWPPP) PLAN FOR CONSTRUCTION. THE SWPPP PLAN SHALL OUTLINE DETAILED SPECIFICATIONS FOR IMPLEMENTATION, INSPECTION, AND MAINTENANCE OF ALL EROSION CONTROL MEASURES. THE CONTRACTOR HAS SOLE RESPONSIBILITY FOR COMPLIANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN. SHALL BE RESPONSIBLE FOR AMENDING THE SWPPP ACCORDINGLY, AND SHALL BE RESPONSIBLE FOR ANY PENALTIES RESULTING FROM LACK OF COMPLIANCE.

SPECIFICATIONS FOR TEMPORARY AND PERMANENT SEEDING:
GRASS SEED MIX SHALL CONSIST OF THE MIXTURE DETAILED IN THE FOLLOWING TABLE, WITH 98% PURITY:

PERMANENT SEED MIX			
BOTANICAL NAME	COMMON NAME	BY % MASS	
FESTUCA ARUNDINACEA, FAWN	TALL FESCUE, FAWN	30	
LOTUS CORNICULATUS	BIRD'S FOOT TREFLOIL	24	
LOLIUM MULTIFLORUM	ANNUAL RYE GRASS	16	
PHLEUM PRATENSE, CLIMAX	TIMOTHY, CLIMAX	16	
TRIFOLIUM HYBRIDUM	ALSIKE CLOVER	10	
AGROSTIS ALBA	REDDTOP	4	

EROSION CONTROL SEED MIX			
SEED	BY % MASS	% GERMINATION (MIN.)	
WINTER RYE 80 (MIN.)	80 (MIN.)	85	
RED FESCUE (CREEPING)	4 (MIN.)	80	
PERENNIAL RYE GRASS	3 (MIN.)	90	
RED CLOVER	3 (MIN.)	90	
OTHER CROP GRASS	0.5 (MAX.)		
NOXIOUS WEED SEED	0.5 (MAX.)		
INERT MATTER	1.0 (MAX.)		

- WINTER CONSTRUCTION NOTES:**
- ALL PROPOSED POST-DEVELOPMENT VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE ELSEWHERE. MULCH REMAINING IN THE SPRING SHALL BE REMOVED AND REPLACED AT RATE OF 2 TONS PER ACRE. THE PLACEMENT OF EROSION CONTROL BLANKETS OR MULCH AND TACKIFIER SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND.
- ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
- AFTER OCTOBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES SHALL BE PROTECTED WITH A MINIMUM OF 3-INCHES OF CRUSHED GRAVEL PER SQUAD ITEM 308.5 OR IF CONSTRUCTION IS TO CONTINUE THROUGH THE WINTER SEASON BE CLEARED OF ANY ACCUMULATED SNOW AFTER EACH STORM EVENT.



NOT ISSUED FOR CONSTRUCTION

MOJALAKI SOLAR
321 PROSPECT STREET
FRANKLIN, NEW HAMPSHIRE

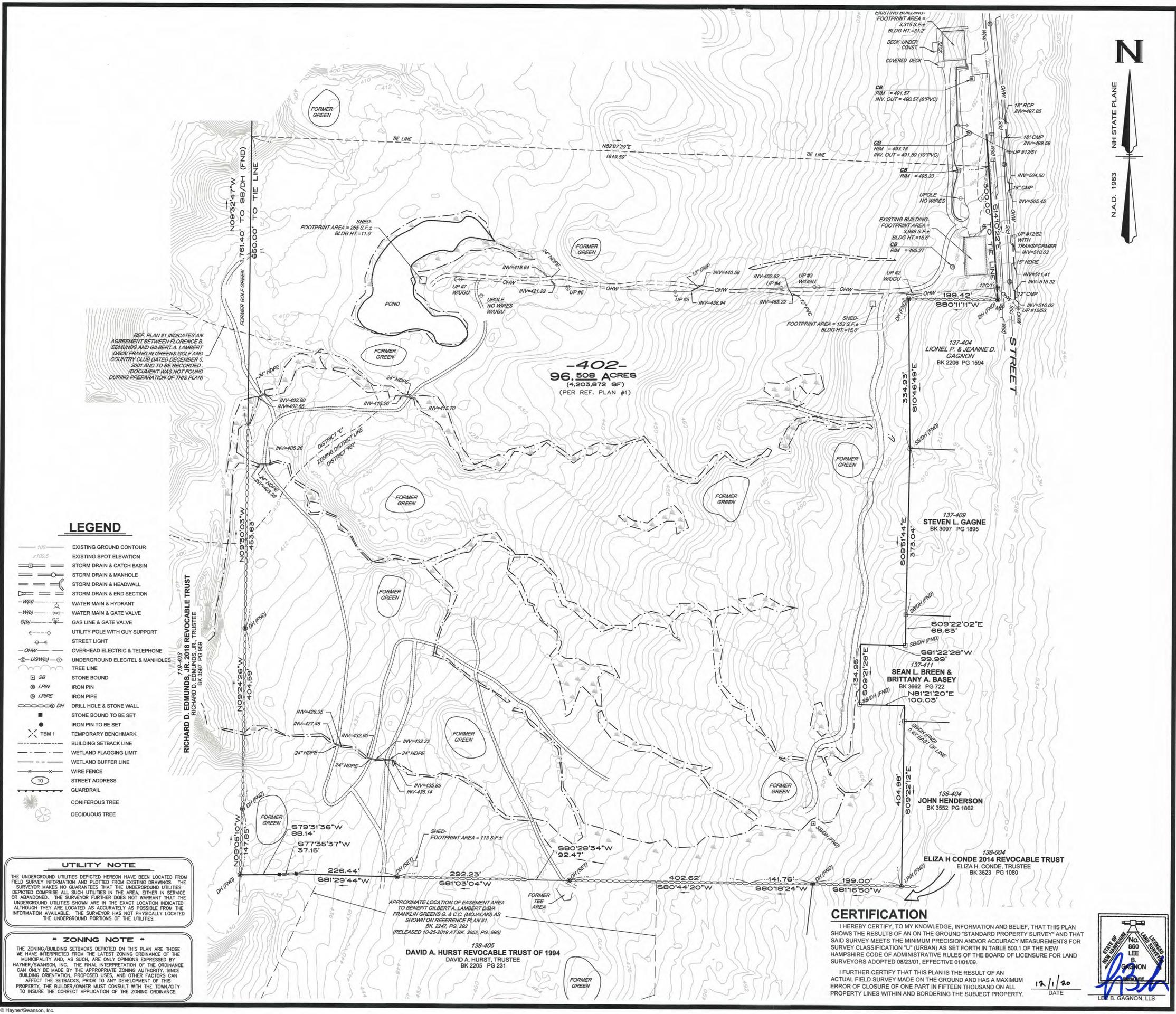
NO.	DATE	DESCRIPTION
1	01/13/2021	NHDES AOT SUBMISSION
2	12/10/2020	REV. INTERCONNECTION

SCALE: AS NOTED

DATE:	NOVEMBER 2020
NOBIS PROJECT NO.	95771.01
DRAWN BY:	NCP
CHECKED BY:	JCN
CAD DRAWING FILE:	95771.01-C-005-NOTES & LEGEND.dwg
SHEET TITLE	

GENERAL NOTES AND LEGEND

SHEET G-1



PLAN REFERENCES:

- TAX MAP 119, LOT 402, BOUNDARY SURVEY FOR GILBERT A. LAMBERT, FRANKLIN GREENS GOLF & COUNTRY CLUB, 321 PROSPECT STREET, FRANKLIN, NH, DATED DECEMBER 3, 2001, REVISED DECEMBER 5, 2001 BY LEPENE ENGINEERING & SURVEYING. RECORDED: MCRD PLAN No. 15659.
- SUBDIVISION AND ANNEXATION FOR GILBERT A. LAMBERT, LIONEL P. & JEANNE D. GAGNE, GEORGE F. SARGENT JR. & WENDY M. SARGENT, PROSPECT STREET, FRANKLIN, NH DATED APRIL 8, 1990 BY LEPENE ENGINEERING & SURVEYING. RECORDED: MCRD PLAN No. 14778.
- SUBDIVISION PLAN, TAX MAP 138, LOT 405, PROSPECT STREET, FRANKLIN, NH, OWNER OF RECORD: MARIE M. DECLERCK, DATED NOV. 1987 BY ERIC C. MITCHELL & ASSOCIATES. RECORDED: MCRD PLAN No. 10114.
- PROPOSED SUBDIVISION, PROPERTY OF RICHARD D. AND FLORENCE B. EDMUNDS, 221 FRANKLIN ST., FRANKLIN, NH, DATED 5/27/79 BY WARREN P. CATE. RECORDED: MCRD PLAN No. 5789.

NOTES:

- SITE AREA: MAP 119, LOT 402: 96.508 ACRES (4,203,872 SF) PER REF. PLAN #1
 - THE PURPOSE OF THE PLAN IS TO SHOW THE RESULTS OF AN EXISTING CONDITIONS SURVEY PERFORMED ON A PORTION OF MAP 119, LOT 402.
 - LOT NUMBERS REFER TO THE CITY OF FRANKLIN, NH ASSESSORS MAPS 119, 137, AND 138.
 - MAP 119, LOT 402 IS LOCATED IN ZONE X AS GRAPHICALLY DEPICTED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP FOR THE CITY OF FRANKLIN, NEW HAMPSHIRE, COMMUNITY NUMBER 500113, MAP NUMBER 3301300157E WITH AN EFFECTIVE DATE OF APRIL 16, 2010.
 - PRESENT ZONING PER CITY ORDINANCE:
ZONING DISTRICT: RR (RURAL RESIDENCE) & C (CONSERVATION) AS SHOWN
- | MINIMUM LOT REQUIREMENTS: | | RR DISTRICT | C DISTRICT |
|--|--|-------------|------------|
| -MIN LOT SIZE | | 65,500 SF | 225,000 SF |
| -MIN FRONTAGE | | 225 FT | 400 FT |
| MINIMUM BUILDING SETBACK REQUIREMENTS: | | | |
| -FRONT YARD | | 40 FT | 50 FT |
| -SIDE YARD | | 25 FT | 25 FT |
| -REAR YARD | | 25 FT | 25 FT |
| -MAX BUILDING HEIGHT | | 35 FT | 50 FT |
- TOPOGRAPHY IS BASED UPON LIDAR AS PROVIDED BY CLIENT. EXISTING SITE IMPROVEMENTS ALONG PROSPECT STREET AND ADJACENT TO LOT LINES WERE LOCATED ON THE GROUND AT THE TIME OF THE FIELD SURVEY. INTERNAL SITE CONDITIONS (TREE LINE, CART PATHS, GREENS, ETC) ARE BASED UPON AERIAL PHOTOS AND HAVE NOT BEEN FIELD LOCATED.
 - WETLANDS ON A PORTION OF THE PROPERTY WERE DELINEATED BY POWELL ASSET MAPPING, LLC IN JUNE 2020 AND LOCATED BY HAYNER/SWANSON, INC.
 - SURVEY CONTROL INFORMATION:
CONTROLLED BY TRIMBLE R-10 GPS RECEIVER
RTK CORRECTIONS VIA KEYNET VRS
HORIZONTAL DATUM: NAD83 (2011)
VERTICAL DATUM: NAVD88
HORIZONTAL PROJECTION: NH STATE PLANE
UNITS: US SURVEY FEET
 - PRESENT OWNERS OF RECORD:
MAP 119, LOT 402
MOJALAKI HOLDINGS, LLC
P.O. BOX 575
TILTON, NH 03276
BK. 3654, PG. 327

EASEMENTS, RIGHTS, AND RESTRICTIONS:

- MAP 119, LOT 402 MAY BE SUBJECT TO GOLF PRIVILEGES IN FAVOR OF OTHERS AS DESCRIBED AT BOOK 3654, PAGE 327

No.	DATE	REVISION	BY
1	11/30/20	ADDITIONAL CULVERTS/INVERTS ADDED	PCL

EXISTING CONDITIONS PLAN
(MAP 119, PORTION OF LOT 402)

321 PROSPECT STREET

FRANKLIN, NEW HAMPSHIRE

PREPARED FOR:
GSSG NEW HAMPSHIRE LLC
36 MAPLEWOOD AVE. PORTSMOUTH, NEW HAMPSHIRE 03801

RECORD OWNER:
MOJALAKI HOLDINGS, LLC
P.O. BOX 575 TILTON, NEW HAMPSHIRE 03276

SCALE: 1"=100 Feet
1"=30.480 Meters

29 JULY 2020

HSI Hayner/Swanson, Inc.
Civil Engineers/Land Surveyors
3 Congress Street
Nashua, NH 03062
(603) 883-2057
www.hayner-swanson.com

131 Middlesex Turnpike
Burlington, MA 01803
(802) 203-1501

FIELD BOOK: 1241	DRAWING NAME: 5704-EC80	5704	1 OF 1
DRAWING LOG: J:\5000\5704 GSSG FRANKLIN\DWG		File Number	Sheet



N.A.D. 1983

LEGEND

- 100 EXISTING GROUND CONTOUR
- x100.5 EXISTING SPOT ELEVATION
- STORM DRAIN & CATCH BASIN
- STORM DRAIN & MANHOLE
- STORM DRAIN & HEADWALL
- STORM DRAIN & END SECTION
- WATER MAIN & HYDRANT
- WATER MAIN & GATE VALVE
- GAS LINE & GATE VALVE
- UTILITY POLE WITH GUY SUPPORT
- STREET LIGHT
- OHW OVERHEAD ELECTRIC & TELEPHONE
- UGW(U) UNDERGROUND ELEC/TEL & MANHOLES
- TREE LINE
- STONE BOUND
- IRON PIN
- IRON PIPE
- DRILL HOLE & STONE WALL
- STONE BOUND TO BE SET
- IRON PIN TO BE SET
- TBM 1 TEMPORARY BENCHMARK
- BUILDING SETBACK LINE
- WETLAND FLAGGING LIMIT
- WETLAND BUFFER LINE
- WIRE FENCE
- STREET ADDRESS
- GUARDRAIL
- CONIFEROUS TREE
- DECIDUOUS TREE

UTILITY NOTE

THE UNDERGROUND UTILITIES DEPICTED HEREON HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND PLOTTED FROM EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES DEPICTED COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND PORTIONS OF THE UTILITIES.

ZONING NOTE

THE ZONING/BUILDING SETBACKS DEPICTED ON THIS PLAN ARE THOSE WE HAVE INTERPRETED FROM THE LATEST ZONING ORDINANCE OF THE MUNICIPALITY AND, AS SUCH, ARE ONLY OPINIONS EXPRESSED BY HAYNER/SWANSON, INC. THE FINAL INTERPRETATION OF THE ORDINANCE CAN ONLY BE MADE BY THE APPROPRIATE ZONING AUTHORITY. SINCE BUILDING ORIENTATION, PROPOSED USES, AND OTHER FACTORS CAN AFFECT THE SETBACKS, PRIOR TO ANY DEVELOPMENT OF THIS PROPERTY, THE BUILDER/OWNER MUST CONSULT WITH THE TOWN/CITY TO INSURE THE CORRECT APPLICATION OF THE ZONING ORDINANCE.

CERTIFICATION

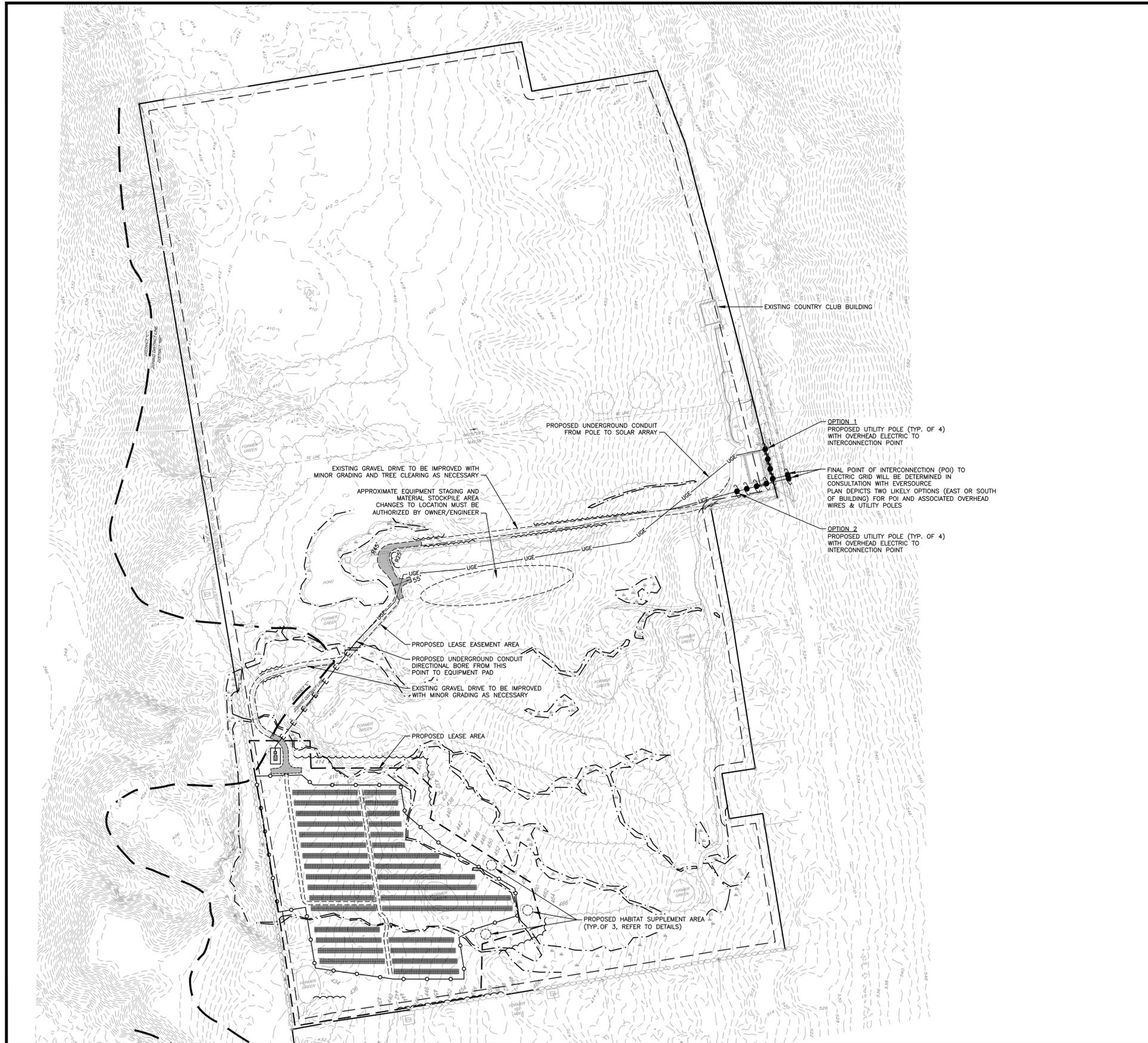
I HEREBY CERTIFY, TO MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THIS PLAN SHOWS THE RESULTS OF AN ON THE GROUND "STANDARD PROPERTY SURVEY" AND THAT SAID SURVEY MEETS THE MINIMUM PRECISION AND/OR ACCURACY MEASUREMENTS FOR SURVEY CLASSIFICATION "U" (URBAN) AS SET FORTH IN TABLE 500.1 OF THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS ADOPTED 08/23/01, EFFECTIVE 01/01/09.

I FURTHER CERTIFY THAT THIS PLAN IS THE RESULT OF AN ACTUAL FIELD SURVEY MADE ON THE GROUND AND HAS A MAXIMUM ERROR OF CLOSURE OF ONE PART IN FIFTEEN THOUSAND ON ALL PROPERTY LINES WITHIN AND BORDERING THE SUBJECT PROPERTY.

DATE: 12/1/20
LEE B. GAGNON, LLS



J:\95771.01 - Mojabak Solar\CAD\95771.01-C-200-SITE.dwg 1/13/2021 1:42 PM



- NOTES:**
1. THE PURPOSE OF THIS PLAN IS TO SHOW THE PROPOSED LOCATION OF THE PHOTOVOLTAIC ARRAY, FENCING, EQUIPMENT PAD, GRAVEL ACCESS DRIVE, AND UTILITY POLES IN RELATION TO EXISTING SITE FEATURES.
 2. DIMENSIONS SHOWN TAKE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR TO USE CAUTION WHEN SCALING REPRODUCED PLANS. IN THE EVENT OF A CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWINGS AND / OR SPECIFICATIONS, THE ENGINEER WILL BE NOTIFIED BY THE CONTRACTOR.
 3. JURISDICTIONAL WETLANDS WERE FOUND ON THE SUBJECT PARCEL BASED ON INSPECTIONS MADE BY POWELL ASSET MAPPING, LLC IN DECEMBER 2019 AND JUNE 2020. THE RESULTING WETLAND FLAGS WERE LOCATED BY HAYNER/SWANSON, INC. AS PART OF THE GROUND SURVEY.
 4. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIG SAFE (1-888-DIG-SAFE) AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR WILL COORDINATE WORK WITH THE CITY FIRE, POLICE, AND COMMUNITY DEVELOPMENT DEPARTMENTS.
 5. REFER TO CONSTRUCTION DETAIL SHEETS FOR ALL APPLICABLE SITE DETAILS.
 6. CONTRACTOR WILL NOTIFY ENGINEERS IMMEDIATELY IF SITE CONDITIONS DIFFER FROM WHAT IS SHOWN ON PLAN.
 7. REFER TO SHEET G-1 FOR GENERAL NOTES AND LEGEND.

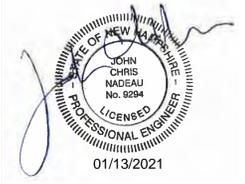
PLAN REFERENCE:
 EXISTING CONDITIONS, TOPOGRAPHICAL INFORMATION, NORTH ORIENTATION, NORTH ARROW, AND COORDINATE VALUES DEPICTED ON THESE DRAWINGS ARE BASED ON A PLAN TITLED "EXISTING CONDITIONS PLAN (MAP 119 PORTION OF LOT 402)", DATED JULY 29, 2020, BY HAYNER/SWANSON, INC.

ZONING ANALYSIS

TAX MAP/BLOCK/LOT:	MAP 119 LOT 402
ADDRESS:	321 PROSPECT STREET FRANKLIN, NH
ZONING DISTRICT:	RURAL RESIDENTIAL 'RR' DISTRICT
MINIMUM LOT AREA	PROVIDED 65,500 SF
	4,203,872 SF
MINIMUM LOT FRONTAGE	PROVIDED 225'
	1,310'
BUILDING SETBACKS REQUIRED	REQUIRED
FRONT YARD	40'
SIDE YARD	25'
REAR YARD	25'



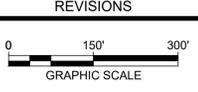
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NOT ISSUED
 FOR
 CONSTRUCTION

MOJALAKI SOLAR
 321 PROSPECT STREET
 FRANKLIN, NEW HAMPSHIRE

NO.	DATE	DESCRIPTION
1	01/13/2021	NHDES AOT SUBMISSION
2	12/10/2020	REV. INTERCONNECTION



DATE: NOVEMBER 2020
 NOBIS PROJECT NO. 95771.01
 DRAWN BY: NCP
 CHECKED BY: JCN
 CAD DRAWING FILE:
 95771.01-C-200-SITE.dwg

APPROVED
 BY THE FRANKLIN PLANNING BOARD
 THIS SITE PLAN IS APPROVED IN ACCORDANCE WITH THE CITY OF FRANKLIN
 DEVELOPMENT REGULATIONS

 CHAIR OR VICE CHAIR

 DATE

**OVERVIEW
 PLAN**

**SHEET
 C-1**

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NOTES:

1. THE PURPOSE OF THIS PLAN IS TO SHOW THE PROPOSED LOCATION OF THE PHOTOVOLTAIC ARRAY, FENCING, EQUIPMENT PAD, GRAVEL ACCESS DRIVE, AND UTILITY POLES IN RELATION TO EXISTING SITE FEATURES.
2. DIMENSIONS SHOWN TAKE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR TO USE CAUTION WHEN SCALING REPRODUCED PLANS. IN THE EVENT OF A CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWINGS AND / OR SPECIFICATIONS, THE ENGINEER WILL BE NOTIFIED BY THE CONTRACTOR.
3. JURISDICTIONAL WETLANDS WERE FOUND ON THE SUBJECT PARCEL BASED ON INSPECTIONS MADE BY POWELL ASSET MAPPING, LLC IN DECEMBER 2019 AND JUNE 2020. THE RESULTING WETLAND FLAGS WERE LOCATED BY HAYNER/SWANSON, INC. AS PART OF THE GROUND SURVEY.
4. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIG SAFE (1-888-DIG-SAFE) AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR WILL COORDINATE WORK WITH THE CITY FIRE, POLICE, AND COMMUNITY DEVELOPMENT DEPARTMENTS.
5. A MANDATORY PRE-CONSTRUCTION MEETING WITH THE CITY WILL NEED TO BE HELD PRIOR TO ISSUANCE OF ANY PERMITS TO DISCUSS INSPECTION FEES, CONSTRUCTION SCHEDULE, ETC.
6. REFER TO CONSTRUCTION DETAIL SHEETS FOR ALL APPLICABLE SITE DETAILS.
7. CONTRACTOR WILL NOTIFY ENGINEERS IMMEDIATELY IF SITE CONDITIONS DIFFER FROM WHAT IS SHOWN ON PLAN.
8. NO EXTERIOR LIGHTING IS PROPOSED AS PART OF THIS PROJECT.
9. TREE CLEARING SHALL INCLUDE THE REMOVAL OF ALL TREE COMPONENTS INCLUDING STUMPS WITHIN THE PROPOSED PANEL ARRAY FENCELINE. STUMPS SHALL REMAIN IN PLACE IN CLEARED WETLAND AREAS AND IN AREAS OF CLEARING OUTSIDE THE FENCELINE.
10. ALL STUMPS WILL BE CHIPPED AND USED AS PART OF EROSION CONTROL MEASURES. BURIAL OF STUMPS IS NOT PROPOSED.
11. THE LOCATION OF THE SOLAR ARRAY SHOWN HEREON IS APPROXIMATE AND WILL BE ADJUSTED DURING CONSTRUCTION. FINAL COMPONENTS AND CONFIGURATION OF PANELS SUBJECT TO CHANGE. THE NHDES ALTERATION OF TERRAIN PERMIT MAY REQUIRE AMENDMENTS BASED ON THE DEGREE OF CHANGE OF THE FINAL SOLAR ARRAY. THE CONTRACTOR WILL CONTACT THE DESIGN ENGINEER TO ASSIST IN THE FINAL DETERMINATION.
12. REFER TO SHEET G-1 FOR GENERAL NOTES AND LEGEND.

PLAN REFERENCE:

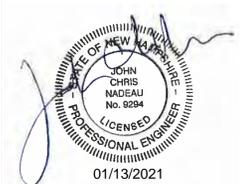
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225'	1,310'
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FRONT YARD	40'
SIDE YARD	25'
REAR YARD	25'



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FOR
CONSTRUCTION

MOJALAKI SOLAR
321 PROSPECT STREET
FRANKLIN, NEW HAMPSHIRE

NO.	DATE	DESCRIPTION
1	01/13/2021	NHDES AOT SUBMISSION
2	12/10/2020	REV. INTERCONNECTION

REVISIONS

DATE:	NOVEMBER 2020
NOBIS PROJECT NO.	95771.01
DRAWN BY:	NCP
CHECKED BY:	JCN
CAD DRAWING FILE:	95771.01-C-200-SITE.dwg

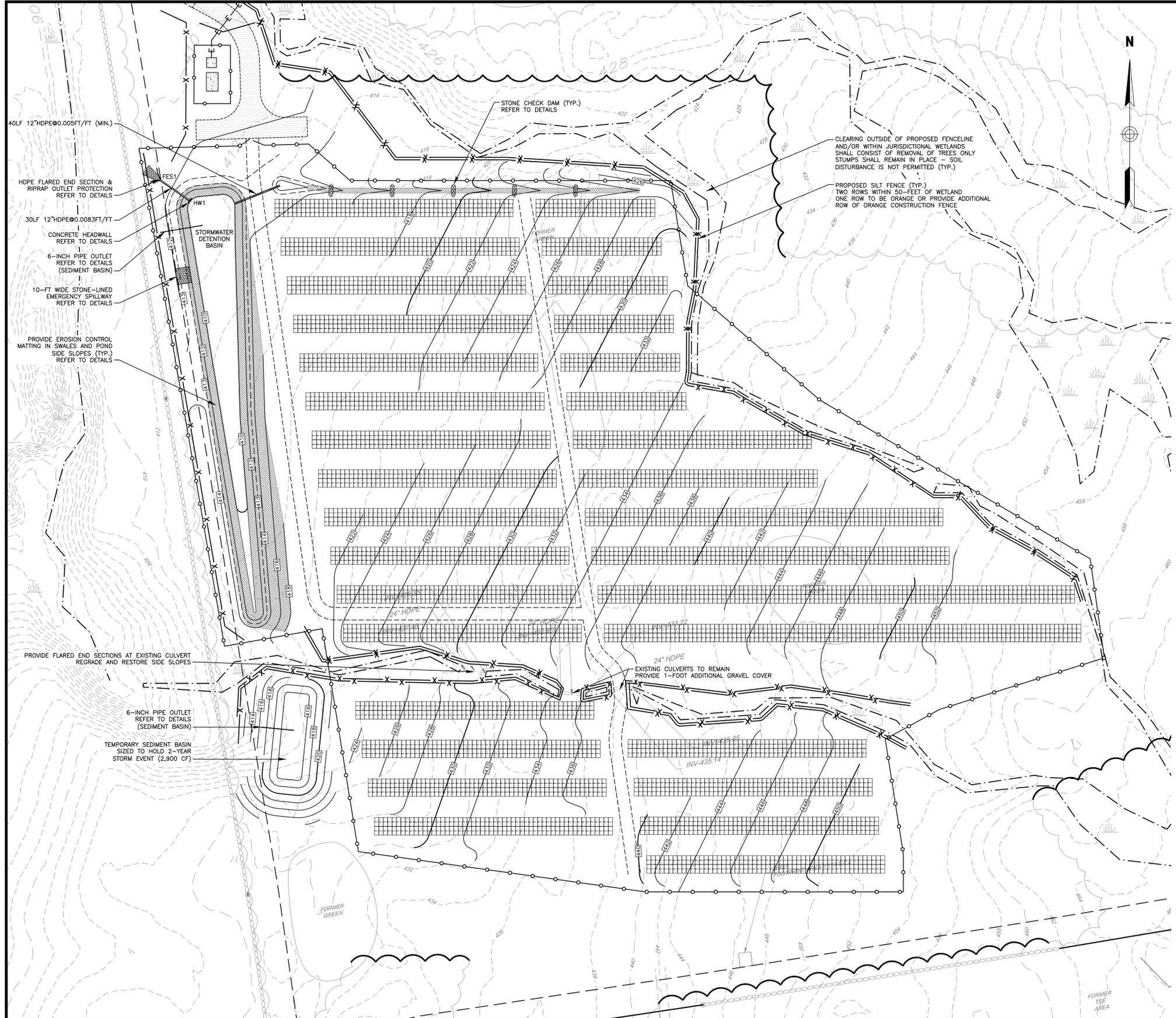
APPROVED
BY THE FRANKLIN PLANNING BOARD
THIS SITE PLAN IS APPROVED IN ACCORDANCE WITH THE CITY OF FRANKLIN DEVELOPMENT REGULATIONS

CHAIR OR VICE CHAIR

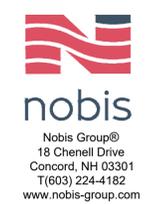
DATE

SITE PLAN

SHEET
C-2



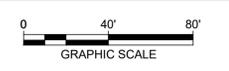
- NOTES:**
1. REFER TO SURVEYOR'S PLAN FOR BASE PLAN REFERENCES AND ADDITIONAL NOTES.
 2. ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE SURVEY PLAN AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
 3. CONTRACTOR WILL NOTIFY OWNER & ENGINEER IMMEDIATELY IF SITE CONDITIONS DIFFER FROM WHAT IS SHOWN ON PLAN.
 4. LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES ARE APPROXIMATE ONLY AND ARE BASED ON RECORDS FROM THE UTILITY COMPANIES AND FIELD MEASUREMENTS OF VISIBLE STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION AND WILL NOTIFY ENGINEER AND OWNER IMMEDIATELY OF ANY CONFLICTS.
 5. ALL WORK ON SITE. ALL UTILITY WORK AND ALL WORK WITH CITY R.O.W. WILL BE PERFORMED IN ACCORDANCE WITH THE CITY OF FRANKLIN SPECIFICATIONS, LATEST EDITION.
 6. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIG SAFE (1-888-DIG-SAFE) AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR WILL COORDINATE WORK WITH THE CITY FIRE, POLICE, AND COMMUNITY DEVELOPMENT DEPARTMENTS.
 7. DISTURBANCES OF AREAS SHALL BE MINIMIZED. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED FOR LONGER THAN TWO WEEKS DURING CONSTRUCTION. AREAS WHICH WILL NOT BE PERMANENTLY SEEDED WITHIN TWO WEEKS OF DISTURBANCE SHALL BE TEMPORARILY SEEDED AND MULCHED. ALL AREAS SHALL BE STABILIZED WITH SEED AND MULCH AND TACKIFIER WITHIN 72 HOURS OF ACHIEVING FINISH GRADE AND PRIOR TO OCTOBER 15.
 8. TREE STUMPS SHALL BE GROUND AND USED FOR TEMPORARY EROSION CONTROL OR SHALL BE DISPOSED OF AT AN APPROVED OFF-SITE FACILITY.
 9. REFER TO SHEET G-1 FOR GENERAL NOTES AND LEGEND.



NOT ISSUED
FOR
CONSTRUCTION

MOJALAKI SOLAR
321 PROSPECT STREET
FRANKLIN, NEW HAMPSHIRE

NO.	DATE	DESCRIPTION
1	01/13/2021	NHDES AOT SUBMISSION
2	12/10/2020	REV. INTERCONNECTION



DATE:	NOVEMBER 2020
NOBIS PROJECT NO.	95771.01
DRAWN BY:	NCP
CHECKED BY:	JCN
CAD DRAWING FILE:	95771.01-C-300-G&D.dwg
SHEET TITLE	

APPROVED
BY THE FRANKLIN PLANNING BOARD
THIS SITE PLAN IS APPROVED IN ACCORDANCE WITH THE CITY OF FRANKLIN
DEVELOPMENT REGULATIONS

CHAIR OR VICE CHAIR

DATE

**GRADING &
DRAINAGE PLAN**

SHEET
C-3

NOT ISSUED
FOR
CONSTRUCTION

MOJALAKI SOLAR
321 PROSPECT STREET
FRANKLIN, NEW HAMPSHIRE

01/13/2021	NHDES AOT SUBMISSION	
12/10/2020	REV. INTERCONNECTION	
NO.	DATE	DESCRIPTION

REVISIONS

SCALE:
AS NOTED

DATE:	NOVEMBER 2020
NOBIS PROJECT NO.	95771.01
DRAWN BY:	NCP
CHECKED BY:	JCN
CAD DRAWING FILE:	95771.01-C-700-DETAILS.dwg

RBI SOLAR
INSTALLATION
DETAILS

SHEET
C-4

NEW

BiHiKu
SUPER HIGH POWER BIFACIAL POLY PERC MODULE
390 W ~ 410 W
UP TO 30% MORE POWER FROM THE BACK SIDE
CS3W-390|395|400|405|410PB-AG

MORE POWER

- Up to 30% more power from the back side
- 24% more front side power than conventional modules
- Low NIMOT: $-41 \pm 3^\circ\text{C}$
Low temperature coefficient (Pmax): $-0.37\% / ^\circ\text{C}$
- Better shading tolerance

MORE RELIABLE

- Lower internal current, lower hot spot temperature
- Minimizes micro-cracks and small trails
- Heavy snow load up to 5400 Pa, wind load up to 2400 Pa*
- Fire Class A and Type 3 / Type 13

30 year linear power output warranty

10 year product warranty on materials and workmanship

MANAGEMENT SYSTEM CERTIFICATES*

ISO 9001:2015 Quality management system
ISO 14001:2015 Standards for environmental management system
OHSAS 18001:2007 International standards for occupational health & safety

PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730 VDE / CE
UL 1703 USA
IEC 61701 ESD: VDE / IEC 62716: VDE
Tale = 90%

CANADIAN SOLAR (USA), INC. is committed to providing high quality solar products, solar system solutions and services to customers around the world. No. 1 module supplier for quality and performance/price ratio in RB5 Module Customer Insight Survey. As a leading PV project developer and manufacturer of solar modules with over 33 GW deployed around the world since 2001.

*For detail information, please refer to Installation Manual.

CANADIAN SOLAR (USA), INC.
3000 Oak Road, Suite 400, Walnut Creek, CA 94597, USA | www.canadiansolar.com/na | sales.us@canadiansolar.com

ENGINEERING DRAWING (mm)

Rear View, Frame Cross Section, Mounting Hole

CS3W-400PB-AG I-V CURVES

Nominal Power (W)	Opt. Voltage (V)	Opt. Current (A)	Open Voltage (V)	Short Current (A)	Efficiency (%)			
						10% Gain**	20% Gain**	30% Gain**
390	38.3	10.19	46.8	10.74	17.45%			
410	38.3	10.71	46.8	11.28	18.35%			
429	38.3	11.21	46.8	11.81	19.20%			
468	38.3	12.23	46.8	12.89	20.95%			
507	38.3	13.25	46.8	13.96	22.69%			
390	38.5	10.26	47	10.82	17.68%			
415	38.5	10.78	47	11.36	18.57%			
435	38.5	11.3	47	11.9	19.47%			
474	38.5	12.31	47	12.96	21.21%			
513	38.5	13.34	47	14.07	22.96%			
400	38.7	10.34	47.2	10.9	17.90%			
420	38.7	10.86	47.2	11.45	18.80%			
440	38.7	11.37	47.2	11.99	19.69%			
480	38.7	12.41	47.2	13.08	21.46%			
520	38.7	13.44	47.2	14.17	23.27%			
405	38.9	10.42	47.4	10.98	18.13%			
425	38.9	10.94	47.4	11.53	19.02%			
445	38.9	11.46	47.4	12.08	19.92%			
485	38.9	12.5	47.4	13.18	21.75%			
527	38.9	13.56	47.4	14.27	23.56%			
410	39.1	10.49	47.6	11.06	18.35%			
431	39.1	11.03	47.6	11.61	19.29%			
451	39.1	11.54	47.6	12.17	20.18%			
492	39.1	12.59	47.6	13.27	22.02%			
533	39.1	13.64	47.6	14.38	23.85%			

ELECTRICAL DATA | STC*

ELECTRICAL DATA | NIMOT**

MECHANICAL DATA

Specification Data

Cell Type: Poly-crystalline
Cell Arrangement: 144 (2x (12 X6))
Dimensions: 2132 x 1042 x 30 mm (83.9 x 41.3 x 1.2 in)
Weight: 28.2 kg (62.2 lbs)
Front / Back Glass: 2.0 mm heat strengthened glass
Frame: Anodized aluminum alloy
J-Box: IP68, 3 diodes
Cable: 4.0 mm² (IEC1, 12 AWG (UL))
Connector: T4 series
Per Panel: 35 pieces
Per Container (40' Hq): 770 pieces or 560 pieces (only for US)

TEMPERATURE CHARACTERISTICS

Specification Data

Operating Temperature: -40°C ~ 85°C
Max. System Voltage: 1500 V (IEC/UL) or 1000 V (IEC/UL)
Module Fire Performance: TYPE 3 / Type 13 (UL 1703)
Max. Series Fuse Rating: 25 A
Application Classification: Class A
Power Tolerance: $0 \pm 1\%$
Power Bifaciality*: 70%
Power Bifaciality*: $\frac{P_{back}}{P_{front}}$, $\frac{P_{back}}{P_{total}}$, both P_{back} and P_{total} are based under STC, Bifaciality Tolerance: $\pm 5\%$

TEMPERATURE CHARACTERISTICS

Specification Data

Temperature Coefficient (Pmax): $-0.37\% / ^\circ\text{C}$
Temperature Coefficient (Isc): $-0.29\% / ^\circ\text{C}$
Temperature Coefficient (Voc): $0.05\% / ^\circ\text{C}$
Nominal Module Operating Temperature: $41 \pm 3^\circ\text{C}$

PARTNER SECTION

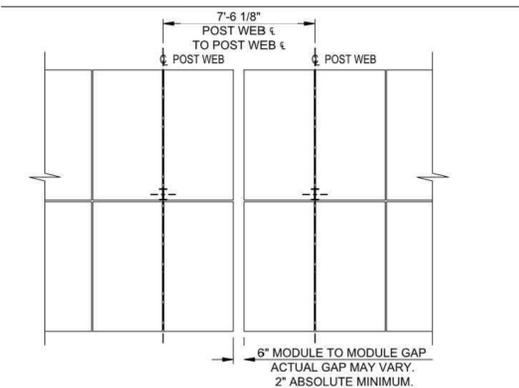
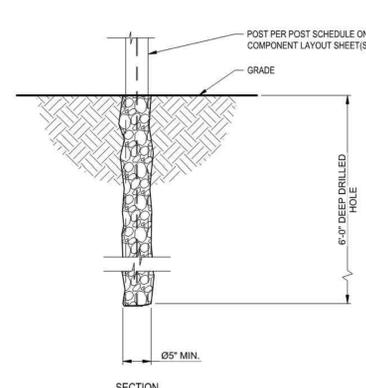
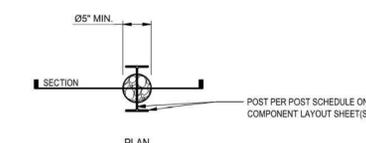
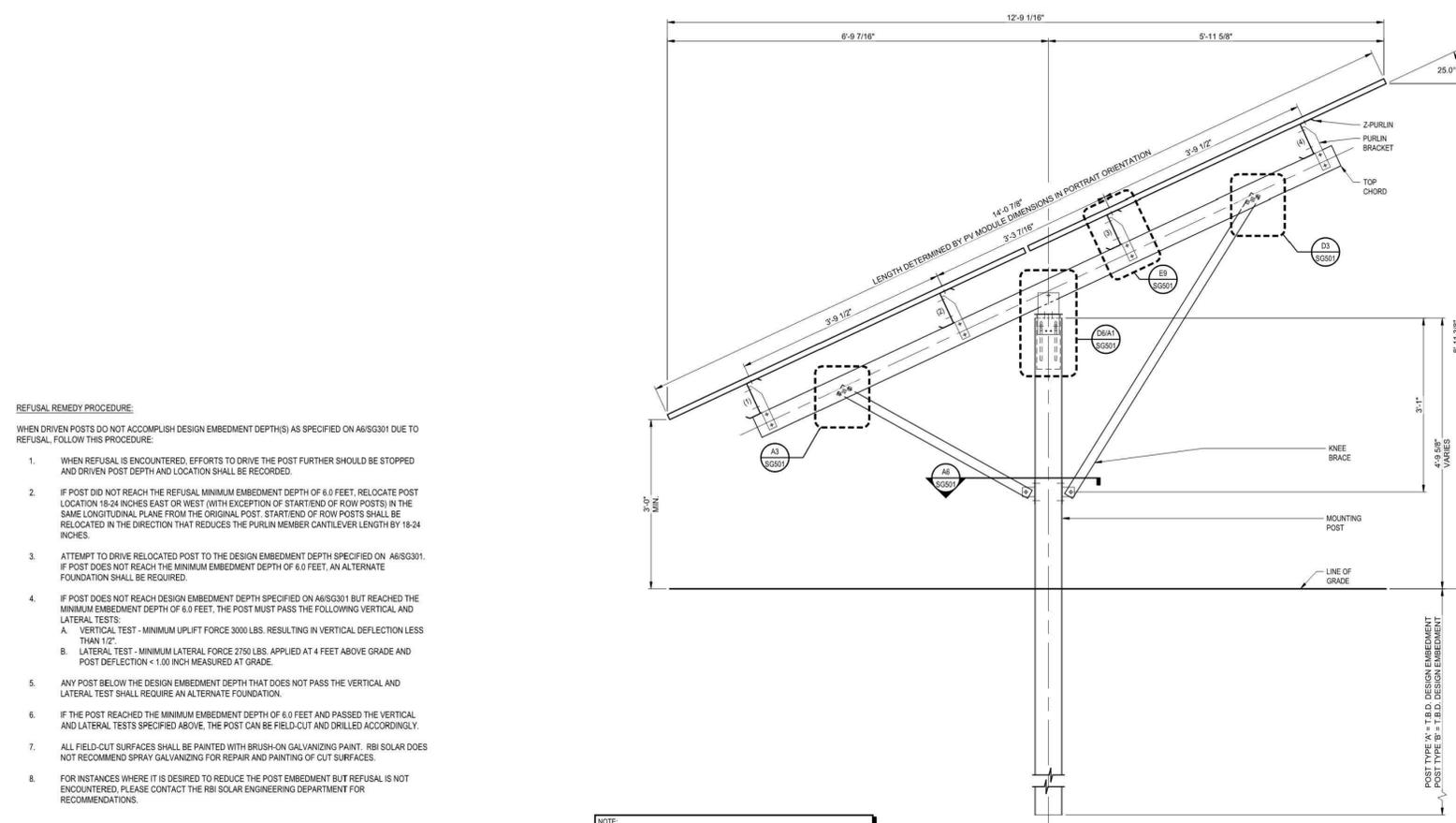
NOTE: 1. POST NOT REQUIRED TO BE CENTERED IN HOLE.
2. CONTACT RBI SOLAR PROJECT MANAGER FOR PRE-DRILL AND DRIVE PROCEDURE.
3. POST SHOULD BOTTOM OUT AT THE HOLE.

MODULE SPECIFICATION SHEETS
NOT TO SCALE

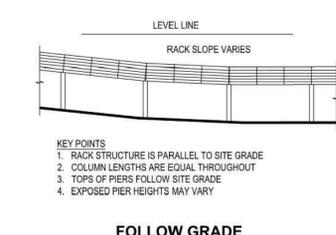
PRE-DRILL & DRIVE OPTION DETAIL
NOT TO SCALE

TYPICAL ROW BREAK DETAIL
NOT TO SCALE

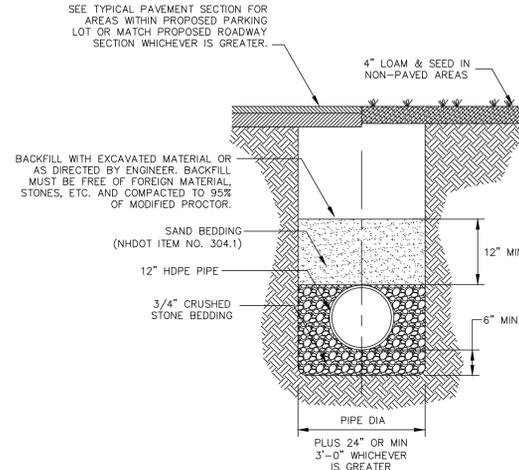
RACK SYSTEM TOPOGRAPHIC RELATIONSHIP
NOT TO SCALE



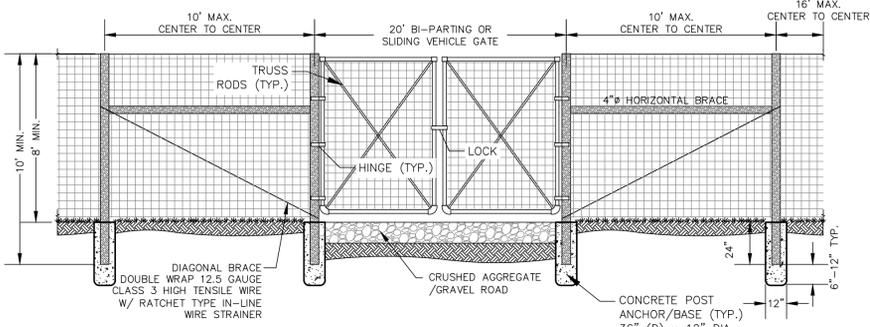
NOTE: COMPONENTS SHOWN MAY VARY FROM ACTUAL CONFIGURATION. SEE INDIVIDUAL BAY PLANS THIS SHEET FOR MORE DETAILED PLANS. INSTALL EXTENDED POST TOP ASSEMBLY AT EITHER SIDE OF ROW BREAK PER DETAIL A1/S6501.



- KEY POINTS**
- RACK STRUCTURE IS PARALLEL TO SITE GRADE
 - COLUMN LENGTHS ARE EQUAL THROUGHOUT
 - TOPS OF PIERS FOLLOW SITE GRADE
 - EXPOSED PIER HEIGHTS MAY VARY

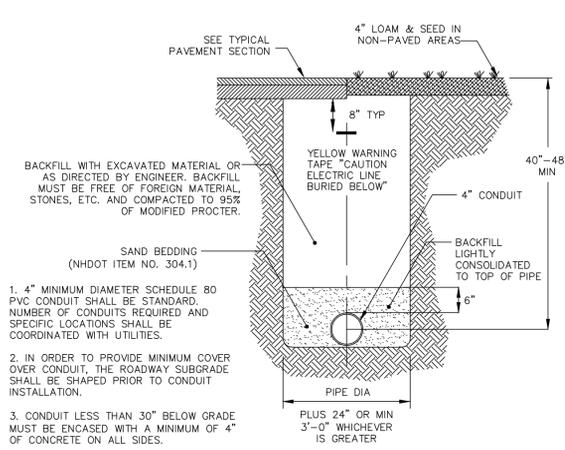


TYPICAL DRAINAGE TRENCH
NOT TO SCALE



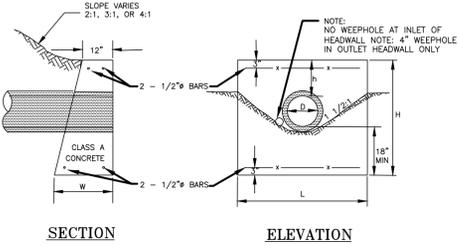
- NOTES:
1. CONCRETE ANCHOR/BASE SHALL BE MIN. 3000 PSI CAST-IN-PLACE FOR ALL CORNERS, PULL, TERMINAL AND GATE POSTS. ALL OTHER POST CAN BE DIRECT PUSH/BURIAL IF POST IS EMBEDDED MIN. 3 FEET.
 2. ALL POSTS SHALL EXTEND A MIN. 8 FEET ABOVE GROUND SURFACE.
 3. PROVIDE HORIZONTAL AND DIAGONAL BRACING AT ALL CORNERS, PULL, TERMINAL AND GATE POSTS.
 4. POST SHALL BE SPACED AT A MAXIMUM OF 18'-0", SEE DETAIL FOR GATE POST SPACING.
 5. POST SHALL BE PRESSURE TREATED PINE OR EQUIVALENT.
 6. HORIZONTAL WOOD BRACES SHALL BE PINNED OR DOWELED.
 7. GATE SHALL BE PT WOOD (4" MIN. SQUARE STOCK), METAL (2" BLACK COATED) OR APPROVED EQUIVALENT.
 8. MESH SHALL BE HIGH TENSILE STEEL 4"x4" FIXED-KNOT 12.5 GAUGE WIRE.
 9. CUT 8" WIDE BY 12" TALL FOX AND ANIMAL PASSAGE OPENING IN BOTTOM OF MESH EVERY 50 FEET.

TYPICAL WOOD POST AND KNOT WIRE FENCE
NOT TO SCALE



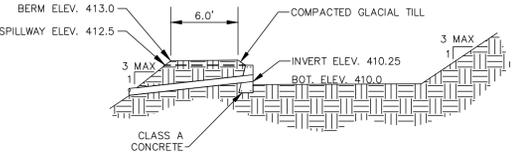
- NOTES:
1. 4" MINIMUM DIAMETER SCHEDULE 80 PVC CONDUIT SHALL BE STANDARD. NUMBER OF CONDUITS REQUIRED AND SPECIFIC LOCATIONS SHALL BE COORDINATED WITH UTILITIES.
 2. IN ORDER TO PROVIDE MINIMUM COVER OVER CONDUIT, THE ROADWAY SUBGRADE SHALL BE SHAPED PRIOR TO CONDUIT INSTALLATION.
 3. CONDUIT LESS THAN 30" BELOW GRADE MUST BE ENCASED WITH A MINIMUM OF 4" OF CONCRETE ON ALL SIDES.

TYPICAL UNDERGROUND CONDUIT TRENCH
NOT TO SCALE



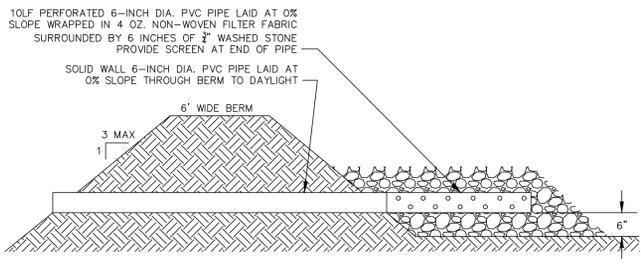
DIMENSIONS IN INCHES	NO. OF BARS	NO. OF VERTICAL BARS	NO. OF HORIZONTAL BARS	LENGTH OF BERM	L	H	W
12	0.80	11	3'-10"	4'-3"	3'-9"	3'-11"	1'-3"
15	1.32	16	5'-8"	6'-0"	4'-3"	2'-1"	1'-6"
18	1.86	16	5'-8"	7'-0"	4'-8"	2'-2"	1'-6"
24	2.41	24	8'-8"	9'-0"	5'-0"	2'-3"	1'-6"

STANDARD HEADWALL
NOT TO SCALE

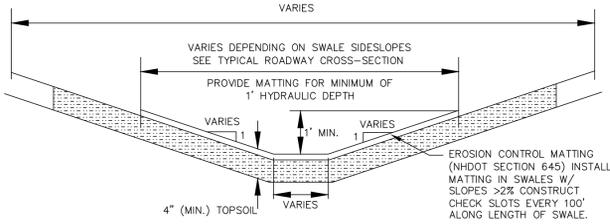


- NOTES:
1. POND OUTLET SHALL BE PLUGGED UNTIL CONSTRUCTION IS COMPLETE AND SITE VEGETATIVE COVER HAS BEEN ESTABLISHED.
 2. MAINTENANCE OF THE DETENTION POND SHALL BE PERFORMED BY THE PROJECT OWNER.
 3. TRASH RACKS/GRATES SHOULD BE INSTALLED OVER ORIFICE OPENINGS.
 4. OUTLET PIPE SHALL HAVE GASKETED (WATER-TIGHT) CONNECTIONS.

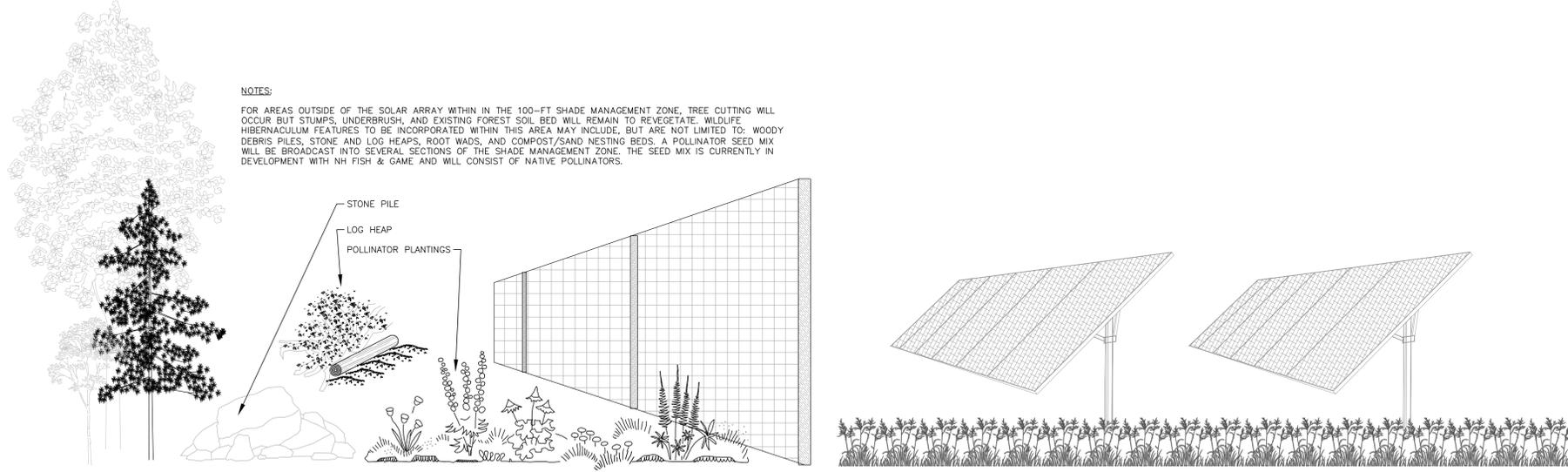
STORMWATER DETENTION BASIN
NOT TO SCALE



SEDIMENT BASIN OUTLET
NOT TO SCALE

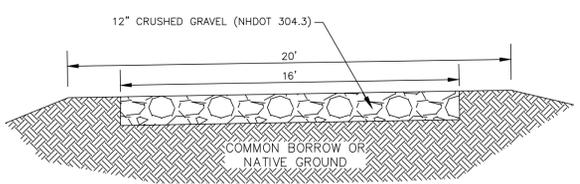


GRASS LINED SWALE SECTION
NOT TO SCALE



- NOTES:
- FOR AREAS OUTSIDE OF THE SOLAR ARRAY WITHIN THE 100-FT SHADE MANAGEMENT ZONE, TREE CUTTING WILL OCCUR BUT STUMPS, UNDERBRUSH, AND EXISTING FOREST SOIL BED WILL REMAIN TO REVEGETATE. WILDLIFE HIBERNACULUM FEATURES TO BE INCORPORATED WITHIN THIS AREA MAY INCLUDE, BUT ARE NOT LIMITED TO: WOODY DEBRIS PILES, STONE AND LOG HEAPS, ROOT WADS, AND COMPOST/SAND NESTING BEDS. A POLLINATOR SEED MIX WILL BE BROADCAST INTO SEVERAL SECTIONS OF THE SHADE MANAGEMENT ZONE. THE SEED MIX IS CURRENTLY IN DEVELOPMENT WITH NH FISH & GAME AND WILL CONSIST OF NATIVE POLLINATORS.

WILDLIFE HABITAT SUPPLEMENT AREA
NOT TO SCALE

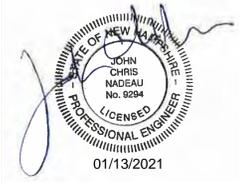


- NOTE:
- DRIVEWAY WILL HAVE MINIMUM 20' WIDE CLEAR ACCESS.

TYPICAL GRAVEL DRIVEWAY SECTION
NOT TO SCALE



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MOJALAKI SOLAR
321 PROSPECT STREET
FRANKLIN, NEW HAMPSHIRE

NO.	DATE	DESCRIPTION
1	01/13/2021	NHDES AOT SUBMISSION
2	12/10/2020	REV. INTERCONNECTION

SCALE: AS NOTED

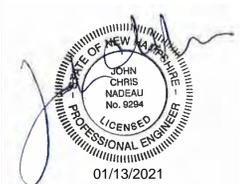
DATE: NOVEMBER 2020
NOBIS PROJECT NO. 95771.01
DRAWN BY: NCP
CHECKED BY: JCN
CAD DRAWING FILE: 95771.01-C-700-DETAILS.dwg

CONSTRUCTION DETAILS

SHEET C-5

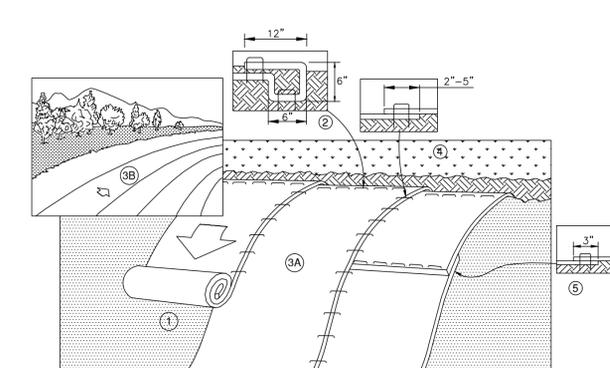


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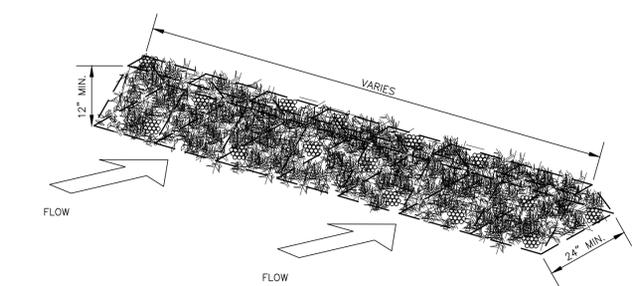
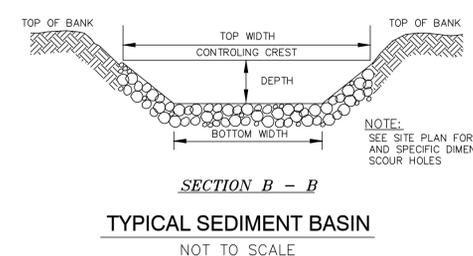
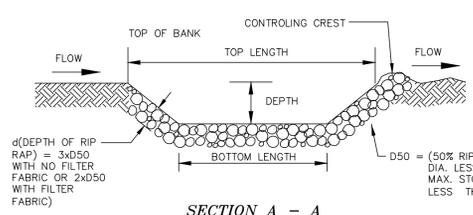
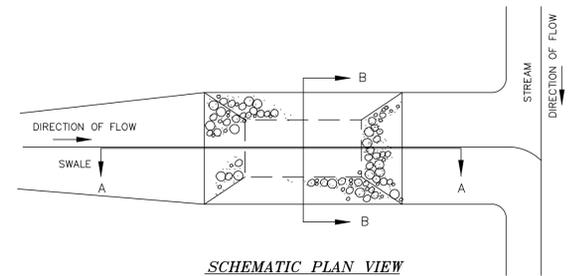
MOJALAKI SOLAR
 321 PROSPECT STREET
 FRANKLIN, NEW HAMPSHIRE



- NOTES:**
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-0-SEED DO NOT SEED PREPARED AREA. CELL-0-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
 3. ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
 5. CONSECUTIVE BLANKETS SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH. NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

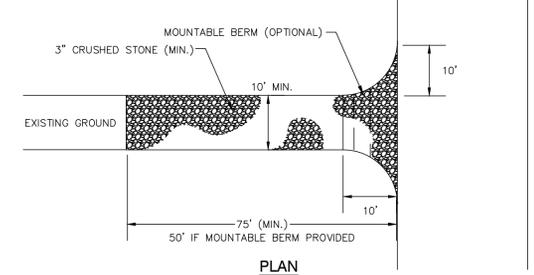
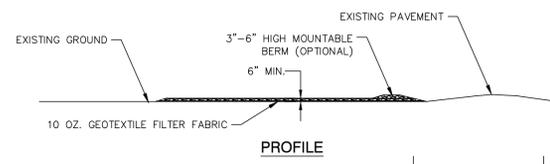
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EROSION CONTROL BLANKET SLOPE INSTALLATION
 (NORTH AMERICAN GREEN)

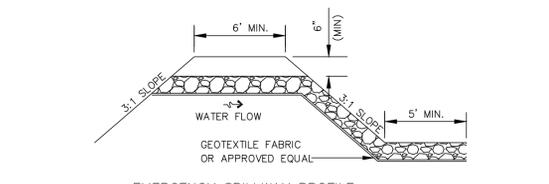
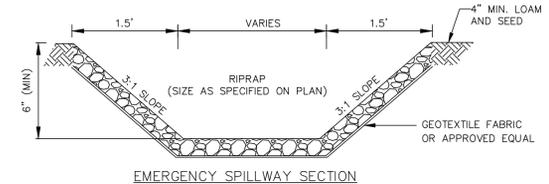


- NOTES:**
1. STUMP GRINDINGS SHOULD BE PROCURED FROM THE PROJECT SITE OR LOCALLY SOURCED AND SHOULD BE VOID OF INVASIVE SPECIES.
 2. STONE UTILIZED IN MIXED EROSION CONTROL BERM SHOULD BE NHDOT CLASS D STONE 1/2" OR APPROVED EQUAL.
 3. EROSION CONTROL BERM SHOULD BE MIXED AT A RATIO OF 2 PARTS STUMP GRINDINGS TO 1 PART STONE.
 4. THE MAXIMUM LENGTH OF SLOPE ABOVE THE MIXED EROSION CONTROL BERM IS 100'.
 5. MIXED EROSION CONTROL BERMS SHALL NOT BE INSTALLED IN LIVE STREAMS OR AS CHECK DAMS IN DRAINAGE SWALES.
 6. MIXED EROSION CONTROL BERMS MUST BE FREE OF REFUSE, PHYSICAL CONTAMINANTS, AND MATERIAL TOXIC TO PLANT GROWTH.
 7. THE ORGANIC MATTER CONTENT SHOULD BE BETWEEN 25% AND 65% BASED ON DRY WEIGHT.
 8. THE MIX SHOULD NOT CONTAIN SILTS, CLAYS OR FINE SANDS.

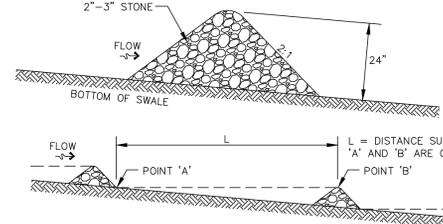
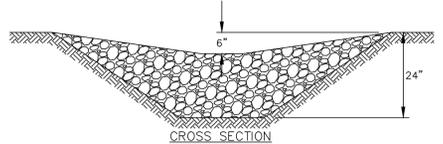
MIXED EROSION CONTROL BERM DETAIL
 NOT TO SCALE



TRACKING PAD DETAIL
 NOT TO SCALE

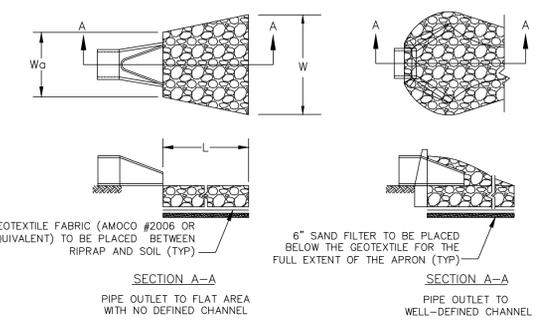


EMERGENCY SPILLWAY
 NOT TO SCALE



MAINTENANCE NOTE:
 STONE CHECK DAMS SHOULD BE CHECKED AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY NECESSARY REPAIRS SHOULD BE MADE IMMEDIATELY. PARTICULAR ATTENTION SHOULD BE GIVEN TO END RUN AND EROSION AT THE DOWNSTREAM TOE OF THE STRUCTURE. WHEN THE STRUCTURES ARE REMOVED, THE DISTURBED PORTION SHOULD BE BROUGHT TO THE EXISTING CHANNEL GRADE AND THE AREAS PREPARED, SEEDED AND MULCHED. WHILE THIS PRACTICE IS NOT INTENDED TO BE USED PRIMARILY FOR SEDIMENT TRAPPING, SOME SEDIMENT WILL ACCUMULATE BEHIND THE STRUCTURES. SEDIMENT SHALL BE REMOVED FROM BEHIND THE STRUCTURES WHEN IT HAS ACCUMULATED TO ONE HALF OF THE ORIGINAL HEIGHT OF THE STRUCTURE.

STONE CHECK DAM
 NOT TO SCALE



STRUCTURE	Wa	W	L	RIP RAP SIZE D50 (INCHES)
FES1	3'	9'	14'	4"

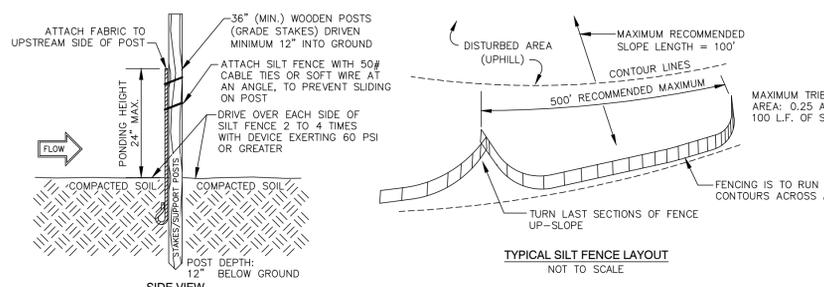
TABLE 7-24--RECOMMENDED RIPRAP GRADATION RANGES

THICKNESS OF RIPRAP = (2.25x d50) FEET (6" min)
 d50 SIZE = 4 INCHES

% OF WEIGHT SMALLER THAN THE GIVEN d50 SIZE	SIZE OF STONE (INCHES) FROM	TO
100%	(1.5x d50)	(2.0x d50)
85%	(1.3x d50)	(1.8x d50)
50%	(1.0x d50)	(1.5x d50)
15%	(0.3x d50)	(0.5x d50)

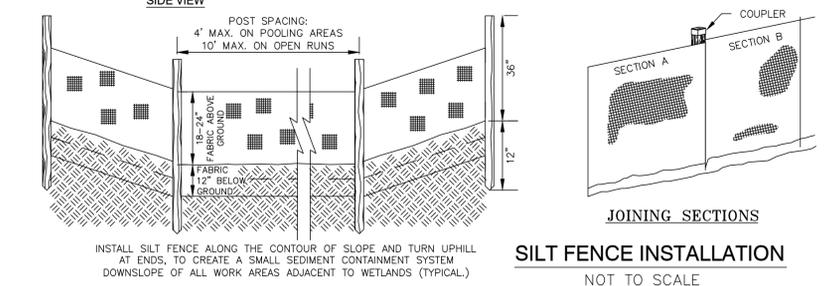
- NOTES:**
1. THE SUBGRADE FOR THE GEOTEXTILE FABRIC AND RIPRAP SHALL BE PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS.
 2. THE RIPRAP SHALL CONFORM TO THE SPECIFIED GRADATION.
 3. GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK RIPRAP. DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.
 4. STONE FOR THE RIPRAP MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE STONE SIZES.
 5. OUTLETS TO A DEFINED CHANNEL SHALL HAVE 2:1 OR FLATTER SIDE SLOPES AND SHOULD BEGIN AT THE TOP OF THE CULVERT AND TAPER DOWN TO THE CHANNEL BOTTOM THROUGH THE LENGTH OF THE APRON.
 6. **MAINTENANCE:** THE OUTLET PROTECTION SHOULD BE CHECKED AT LEAST ANNUALLY AND AFTER EVERY MAJOR STORM. IF THE RIPRAP HAS BEEN DISPLACED, UNDERMINED OR DAMAGED, IT SHOULD BE REPAIRED IMMEDIATELY. THE CHANNEL IMMEDIATELY BELOW THE OUTLET SHOULD BE CHECKED TO SEE THAT EROSION IS NOT OCCURRING. THE DOWNSTREAM CHANNEL SHOULD BE KEPT CLEAR OF OBSTRUCTIONS SUCH AS FALLEN TREES, DEBRIS, AND SEDIMENT THAT COULD CHANGE FLOW PATTERNS AND/OR TAILWATER DEPTHS ON THE PIPES. REPAIRS MUST BE CARRIED OUT IMMEDIATELY TO AVOID ADDITIONAL DAMAGE TO OUTLET PROTECTION.

RIP RAP OUTLET PROTECTION APRON
 NOT TO SCALE



SPECIFICATIONS FOR SILT FENCE INSTALLATION

1. INSTALL POSTS 4 FEET APART IN CRITICAL WATER RETENTION AREAS AND 6-10 FEET APART ON STANDARD APPLICATIONS.
2. INSTALL POSTS 12 INCHES DEEP ON THE DOWN HILL SIDE OF THE SILT FENCE, AND AS CLOSE AS POSSIBLE TO THE FABRIC.
3. SECURELY ATTACH THE FABRIC TO EACH POST WITH TIES SECURED WITHIN THE TOP 8" OF THE FABRIC. ATTACH EACH TIE DIAGONALLY 45 DEGREES THROUGH THE FABRIC, WITH EACH PUNCTURE AT LEAST 2" VERTICALLY APART.
4. WRAP APPROXIMATELY 6 INCHES OF FABRIC AROUND THE END POSTS AND SECURE WITH 3 TIES.
5. THE INSTALLATION SHOULD BE CHECKED AND CORRECTED FOR ANY DEVIATIONS BEFORE COMPACTION. USE A FLAT-BLADED SHOVEL TO TUCK FABRIC DEEPER INTO THE SILT IF NECESSARY.
6. COMPACTION IS VITALLY IMPORTANT FOR EFFECTIVE RESULTS. COMPACT THE SOIL IMMEDIATELY NEXT TO THE SILT FENCE FABRIC WITH THE FRONT WHEEL OF THE TRACTOR, SKID STEER, OR ROLLER EXERTING AT LEAST 60 POUNDS PER SQUARE INCH.



SILT FENCE INSTALLATION
 NOT TO SCALE