



PROPOSED AGRIVOLTAICS FIELD

SHAW DRIVE

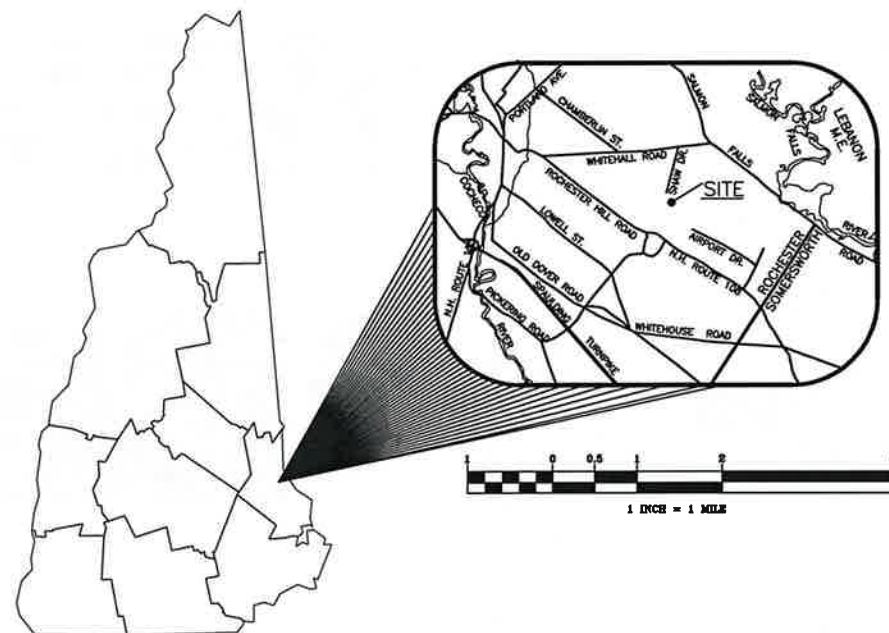
PREPARED FOR

GNM SOLAR 17, LLC

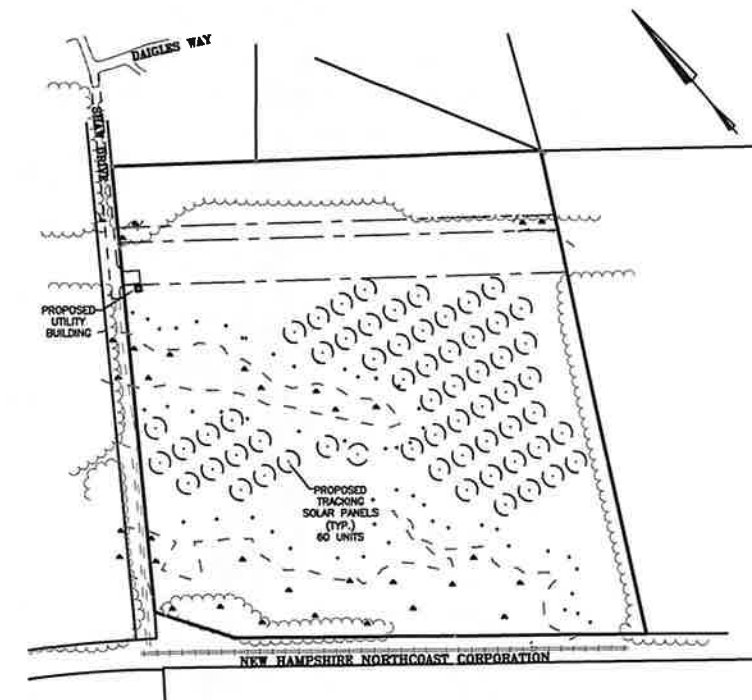
SEPTEMBER 2022

REVISED JUNE 2023

REVISIONS:
06/2/23 - REVISE PER AOT COMMENTS, MOONEY SHAW DRIVE



NEW HAMPSHIRE FISH AND GAME AOT PERMIT CONDITIONS RELATED TO THREATENED AND ENDANGERED SPECIES:
ALL OBSERVATIONS OF THREATENED OR ENDANGERED SPECIES SHALL BE REPORTED IMMEDIATELY TO THE NEW HAMPSHIRE FISH AND GAME DEPARTMENT NONGAME AND ENDANGERED WILDLIFE ENVIRONMENTAL REVIEW PROGRAM BY PHONE AT 603-271-2461 AND BY EMAIL AT NHFGREVIEW@WILDLIFE.NH.GOV. EMAIL SUBJECT LINE: NH22-2361, 60 SHAW DRIVE WILDLIFE SPECIES OBSERVATION.
PHOTOGRAPHS OF THE OBSERVED SPECIES AND NEARBY ELEMENTS OF HABITAT OR AREAS OF LAND DISTURBANCE SHALL BE PROVIDED TO NHF&G IN DIGITAL FORMAT AT THE ABOVE EMAIL ADDRESS FOR VERIFICATION AS FEASIBLE.
IN THE EVENT A THREATENED OR ENDANGERED SPECIES IS OBSERVED ON THE PROJECT SITE DURING THE TERM OF THE PERMIT, THE SPECIES SHALL NOT BE DISTURBED, HANDLED, OR HARMED IN ANY WAY PRIOR TO CONSULTATION WITH NHF&G, IF ANY, TO ASSURE THE PROJECT DOES NOT APPRECIABLY JEOPARDIZE THE CONTINUED EXISTENCE OF THREATENED AND ENDANGERED SPECIES AS DEFINED IN FIS 1002.04.
THE NHF&G, INCLUDING ITS EMPLOYEES AND AUTHORIZED AGENTS, SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE PERMIT.



OVERALL SITE

1" = 200'

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.

STATE AND FEDERAL PERMITS:

STATE OF NEW HAMPSHIRE PERMIT NUMBERS:
NHDES ALTERATION OF TERRAIN: AOT-2417
NHDES WETLANDS PERMIT: 2023-00870
NHDES DAM PERMIT: NOT REQUIRED
NHDES SUBDIVISION PERMIT: NOT REQUIRED
NHDES SUBSURFACE SYSTEMS PERMIT: NOT REQUIRED
NHDES WASTEWATER PERMIT: NOT REQUIRED
NHDOT DRIVEWAY/ENTRANCE PERMIT: NOT REQUIRED

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES):
NPDES PERMITS ARE ONLY REQUIRED FOR PROJECTS MEETING THE DISTURBED AREA CRITERIA BELOW AND HAVING A POINT SOURCE STORMWATER DISCHARGE FROM THE SITE TO AN ADJACENT WETLAND OR WATER BODY (I.E. CULVERT, SWALE, ETC. OUTLETING TO A WETLAND, CREEK, STREAM OR RIVER).

NPDES PERMIT: NOT REQUIRED

NPDES PERMITS CONSIST OF A NOTICE OF INTENT (NOI) FILED WITH THE ENVIRONMENTAL PROTECTION AGENCY AT LEAST 14 DAYS PRIOR TO CONSTRUCTION COMMENCING AND A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) BEING PREPARED, KEPT ON SITE AND FOLLOWED BY THE CONTRACTOR.

FOR STATUS OF THIS PERMIT, CONTACT THE PROJECT GENERAL CONTRACTOR.

FINAL APPROVAL BY
ROCHESTER PLANNING BOARD

CERTIFIED BY: *[Signature]* DATE: 8.16.23
Aug 7 PBM Meeting

SHEET INDEX		
SHEET	COVER	
E-1	EXISTING FEATURES	1" = 100'
C-1	OVERALL SITE PLAN	1" = 100'
C-2	GRADING, DRAINAGE EROSION AND SEDIMENTATION CONTROL PLAN	1" = 100'
C-3	UTILITY PLAN	1" = 50'
C-4	SHAW DRIVE IMPROVEMENT PLAN AND PROFILE	AS SHOWN
C-5	CONSTRUCTION DETAILS	AS SHOWN
C-6	TEMPORARY EROSION AND SEDIMENTATION CONTROL DETAILS	AS SHOWN
C-7	PERMANENT EROSION AND SEDIMENTATION CONTROL DETAILS	AS SHOWN

CIVIL ENGINEERS
NORWAY PLAINS ASSOCIATES, INC.
2 CONTINENTAL BOULEVARD
ROCHESTER, NEW HAMPSHIRE 03867
(603) 335-3948

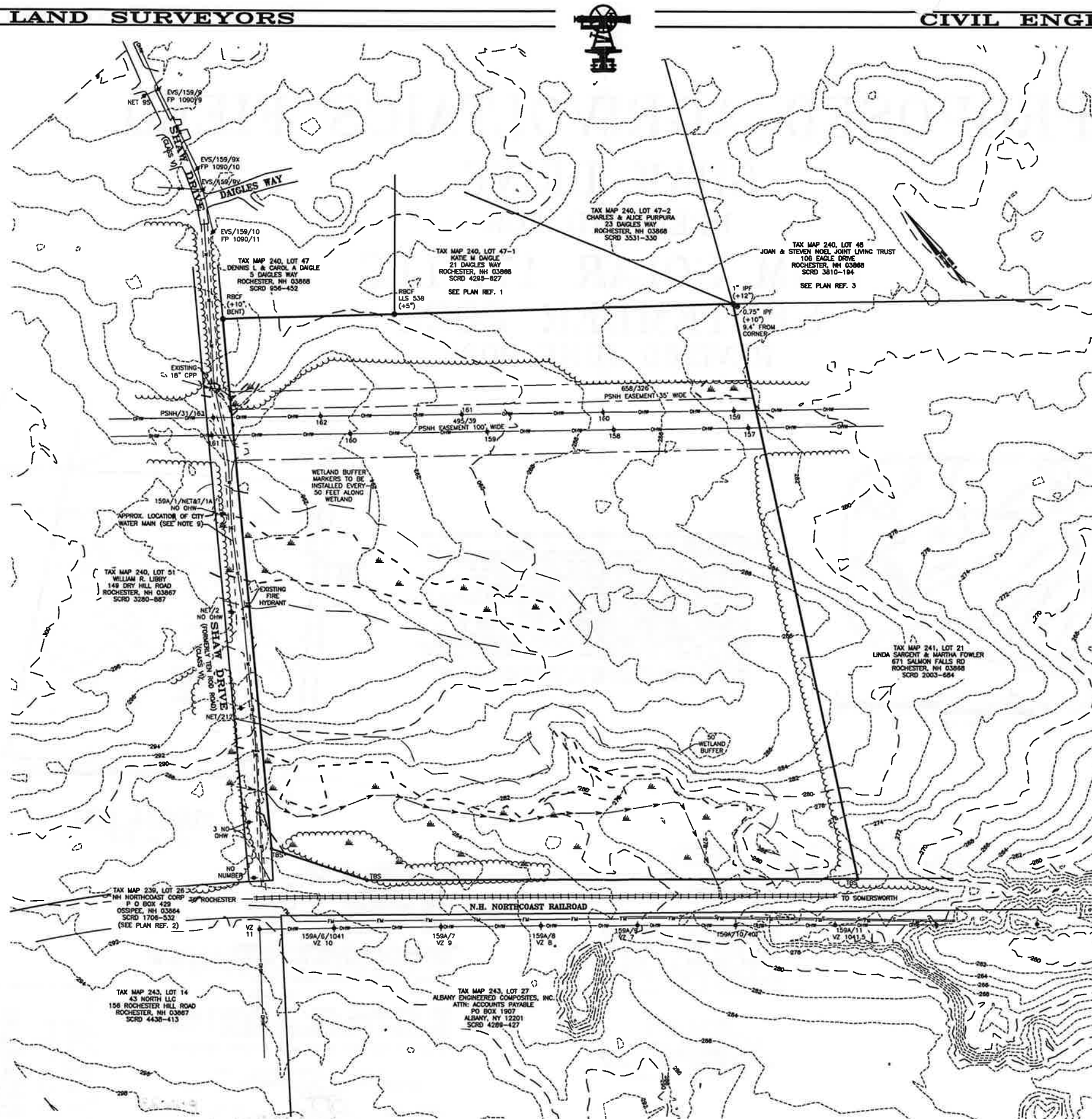
OWNER OF RECORD
TAX MAP 240, LOT 49
GNM SOLAR 17, LLC
123 WASHINGTON STREET
ROCHESTER N.H. 03867
SCRD BOOK 4946, PAGE 485

APPLICANT
GNM SOLAR 17, LLC
123 WASHINGTON STREET
ROCHESTER, NH 03867
(603) 765-9101

FILE NO. 104
PLAN NO. C-3235
DWG. NO. 21033 SP-2

LEGEND

- PROPERTY LINE
- JURISDICTIONAL WETLANDS
- 50' WETLANDS BUFFER
- EXISTING OVERHEAD WIRES
- EXISTING DRAIN LINE
- EXISTING WATER LINE
- EXISTING UTILITY POLE
- EXISTING MONUMENT
- EXISTING HYDRANT
- EXISTING WATER GATE OR SHUT-OFF VALVE



REVISIONS:
06/02/23 - REVISE PER AG COMMENTS
06/30/23 - ADD EXISTING POLES AND WIRES ON SHAW DRIVE

- GENERAL SITE PLAN NOTES
1. THE PURPOSE OF THIS PLAN IS TO DEPICT A THE EXISTING FEATURES ON TAX MAP 240, LOT 49.
 2. TOTAL PARCEL AREA: MAP 240, LOT 49 27.60 ACRES
 3. PARCEL IS ZONED AGRICULTURAL (AG).
 4. THE SURVEYED LOT IS SERVICED BY THE MUNICIPAL WATER SYSTEM. THE SURVEYED LOT HAS NO SEPTIC SYSTEM.
 5. BEARINGS SHOWN ON THIS PLAN REFER TO GRID NORTH, NH STATE PLANE, BASED ON GPS OBSERVATION TAKEN JANUARY 2022.
 6. VERTICAL DATUM NAVD83
 7. THE SURVEYED LOT IS NOT LOCATED WITHIN THE 100 YEAR FLOOD ZONE AS SHOWN ON THE FLOOD INSURANCE RATE MAP DATED 3/17/2005, COMMUNITY PANEL 3301702218D.
 8. DIMENSIONAL REGULATIONS PER ZONING ORDINANCE:
AGRICULTURAL ZONE (A):
MINIMUM LOT AREA = 45,000 SQ.FT.
MINIMUM LOT FRONTAGE = 150 FT.
MINIMUM YARD SETBACKS:
FRONT = 20 FT.
SIDE = 10 FT.
REAR = 20 FT.
 9. WATERLINE LOCATION IS APPROXIMATE BASED ON "CITY OF ROCHESTER, CONTRACT DRAWINGS FOR GRANITE STATE BUSINESS PARK WATER MAIN EXTENSION, ROCHESTER, NH, JUNE 2019, CONFORMED VERSION, AUGUST 2019, BY WRIGHT-PIERCE"
 10. WETLANDS WERE DELINEATED BY DAMON E. BURT, CWS ON MAY 13, 2022.
 11. SHAW DRIVE (FORMERLY TON ROAD) IS A CLASS W ROAD. SEE WAIVER AND RELEASE BETWEEN GNM SOLAR 17 AND THE CITY OF ROCHESTER, SCRD BOOK 5091, PAGE 31 FOR USE OF SHAW DRIVE.

REFERENCE PLANS:

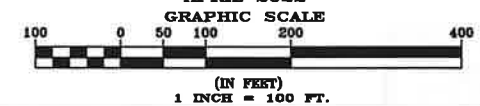
1. "SUBDIVISION PLAN FOR CAROL & DENNIS DAIGLE"
DATED: OCTOBER 2003 BY POKOPEK SURVEY & SEPTIC DESIGN
RECORDED: SCRD 85-8
2. "RIGHT OF WAY AND TRACK MAP, BOSTON AND MAINE RAILROAD, STA. 507+90 TO 580+70"
DATED: JUNE 1914, REVISED 1935 BY BOSTON AND MAINE RAILROAD
NOT RECORDED
3. "LOT LINE REVISION, SALMON FALLS ROAD, FOR JOAN MARY & STEVEN W. NOEL, SR., TRUSTEES"
DATED: MARCH 2014, BY NORWAY PLAINS ASSOCIATES, INC.
RECORDED: SCRD 107-41
4. "CITY OF ROCHESTER CONTRACT DRAWINGS FOR GRANITE STATE BUSINESS PARK WATER MAIN EXTENSION, ROCHESTER, NH JUNE 2019, CONFORMED VERSION AUGUST 2019" PREPARED BY WRIGHT-PIERCE ON FILE WITH THE CITY OF ROCHESTER



WETLAND INFORMATION:
A) Wetlands were delineated by Froggie Rock Environmental on May 13, 2022 according to the 1987 Corps of Engineers Wetlands Delineation Manual, U.S. Army Corps of Engineers, January 1987 and Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Northeast and Northcentral Regions, U.S. Army Corps of Engineers, January 2012.
B) Hydric soils were identified using the Field Indicators of Hydric Soils in the United States, A guide for Identifying and Delineating Hydric Soils, Version 7.0, 2010 and Field Indicators for Identifying Hydric Soils in New England, Version 3. NEWPOC Wetlands Work Group (May 2004).
C) Wetlands were classified by Froggie Rock Environmental utilizing the criteria of the US Fish & Wildlife Services Manual FWS/OSS-79/13 Classification of Wetlands and Deepwater Habitats of the United States (Cowardin et. al. 1979).
D) Dominance of wetland vegetation was assessed by Froggie Rock Environmental, utilizing the National List of Plant Species That Occur in Wetlands: Northeast (Region 1), U.S. Fish and Wildlife Service (May 1986).

TAX MAP 240, LOT 49
OWNER OF RECORD:
GNM SOLAR 17, LLC
123 WASHINGTON STREET
ROCHESTER N.H. 03867
SCRD BOOK 4946, PAGE 485

EXISTING FEATURES PLAN
TAX MAP 240, LOT 49
SHAW DRIVE
ROCHESTER NH
PREPARED FOR:
GNM SOLAR 17, LLC
APRIL 2022















FILE NO. 104
PLAN NO. C-3235
DWG. NO. 21033 SP-2

31 Mooney Street, Alton, N.H. 603-875-3948

NORWAY PLAINS ASSOCIATES, INC.

2 Continental Blvd., Rochester, N.H. 603-335-3948

LEGEND

- | | |
|---|-------------------------------|
|  | PROPERTY LINE |
|  | JURISDICTIONAL WETLANDS |
|  | 50' WETLANDS BUFFER |
|  | EXISTING OVERHEAD WIRES |
|  | EXISTING UTILITY POLE |
|  | EXISTING MONUMENT |
|  | PROPOSED OVERHEAD WIRES |
|  | PROPOSED UNDERGROUND ELECTRIC |
|  | PROPOSED GRAVEL |
|  | PROPOSED DRAIN LINE |
|  | PROPOSED BLUEBERRY PATCH |
|  | PROPOSED SOLAR TRACKER |



REVISIONS:
10/8/22 - REVISED PER TRG COMMENTS.
02/22/23 - REVISE SOLAR TRACKER ALIGNMENT.
03/02/23 - REVISED PER NOD
06/20/23 - REVISE SHAW DRIVE, MOVE UTILITY
BUILDING, MOVE CONCRETE WASHOUT, REMOVE TWO
WETLAND CROSSINGS.
07/31/23 - ADD GENERAL SITE PLAN NOTES 13,
14, AND 15 PER TRG COMMENTS.
08/09/23 - REVISE PER NOD

GENERAL SITE PLAN NOTES

- GENERAL SITE PLAN NOTES
1. THE PURPOSE OF THIS PLAN IS TO DEPICT A PROPOSED SOLAR TRACKER FIELD AND BLUEBERRY PATCHES ON THE PARCEL.
 2. TOTAL PARCEL AREA: MAP 240, LOT 48 27.80 ACRES
 3. PARCEL IS ZONED AGRICULTURAL (AG)
 4. THE SURVEYED LOT IS SERVED BY THE MUNICIPAL WATER SYSTEM. THE SURVEYED LOT HAS NO SEPTIC SYSTEM.
 5. BECAUSE SHADOWN ON THIS PLAN REFER TO GRID NORTH, NH STATE PLANE, BASED ON GPS OBSERVATION TAKEN JANUARY 2022.
 6. VERTICAL DATUM NAVD83
 7. THE SURVEYED LOT IS NOT LOCATED WITHIN THE 100 YEAR FLOOD ZONE AS SHOWN ON THE FLOOD INSURANCE RATE MAP DATED 5/17/2005, COMMUNITY PANEL 33017C0216D.
 8. DIMENSIONAL REGULATIONS PER ZONING ORDINANCE:
AGRICULTURAL ZONE (A):
MINIMUM LOT AREA = 45,000 SQ.FT.
MINIMUM LOT FRONTAGE 150 FT.
MINIMUM YARD SETBACKS:
FRONT = 20 FT.
SIDE = 10 FT.
REAR = 20 FT.
 9. VARIANCE GRANTED BY ROCHESTER ZONING BOARD OF ADJUSTMENTS TO PERMIT A POWER GENERATION UTILITY IN THE AGRICULTURAL ZONE ON SEPTEMBER 14, 2022.
 10. SHAW DRIVE MUST BE ABLE TO SUPPORT ACCESS TO THE LOT FOR EMERGENCY VEHICLES.
 11. FOR MORE INFORMATION ABOUT THIS SITE PLAN, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 33 WAKEFIELD ST., ROCHESTER, NH 03667 (603) 335-1338.
 12. ALL SOLAR TRACKERS SHALL BE PROGRAMMED TO REST IN A POSITION THAT IS PARALLEL TO THE SLOPES TO PREVENT CHANNELIZED FLOW AND EROSION.
 13. ALL CONSTRUCTION ACCESS TO THE SOLAR TRACKERS SHALL BE FROM THE PROPOSED SHAW DRIVE IMPROVEMENTS AND NOT DOWN THE UNIMPROVED SECTION OF SHAW DRIVE OR ACROSS THE WETLANDS AND LAND BUFFERS.
 14. ORANGE CONTRASTANCE OR OTHER CONTINUOUS VISIBLE BOUNDARY BE INSTALLED AT THE WETLAND BUFFER LIMITS TO ASSURE NO FURTHER IMPACTS OF THE WETLANDS OR BUFFERS.
 15. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS OF PROJECT COMPLETION. PERMANENT EROSION AREAS ARE DETERMINED TO BE ESTABLISHED PER THE EROSION CONTROL NOTES ON SHEET C-7.

REFERENCE PLANS:

1. "SUBDIVISION PLAN FOR CAROL & DENNIS BAIGLE"
DATED: OCTOBER 2003 BY POHOKEP SURVEY & SEPTIC DESIGN
RECORDED: SCRD 85-8
2. "RICH OF WAY AND TRACK MAP, BOSTON AND MAINE RAILROAD, STA. 507-90 TO 560-70"
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3. "LOT LINE REVISION, SALMON FALLS ROAD, FOR JOAN MARY & STEVEN W. NOEL, SR., TRUSTEES
DATED: MARCH 2014, BY NORWAY PLANNING ASSOCIATES, INC.
RECORDED: SCRD 107-41
4. "CITY OF ROCHESTER CONTRACT DRAWINGS FOR GRANITE STATE BUSINESS PARK WATER MAIN
EXTENSION, ROCHESTER, NH, JUNE 2019, CONFORMED VERSION AUGUST 2019" PREPARED BY
WISSE & PIERCE, ON FILE WITH ROCHESTER CITY ENGINEER

**TAX MAP 240, LOT 49
OWNER OF RECORD:
GNM SOLAR 17, LLC
123 WASHINGTON STREET
ROCHESTER N.H. 03867
SCRD BOOK 4946, PAGE 485**

**OVERALL SITE LAYOUT PLAN
TAX MAP 240, LOT 49
SHAW DRIVE
ROCHESTER NH**

PREPARED FOR:
GNM SOLAR 17, LLC
SEPTEMBER 2022

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)

1 INCH = 100 FT.

C-1

FILE NO. 104
PLAN NO. C-3235
DWG. NO. 21033 SP-2

31 Mooney Street, Alton, N.H. 603-875-3948

NORWAY PLAINS ASSOCIATES, INC.

2 Continental Blvd., Rochester, N.H. 603-335-3948

LEGEND

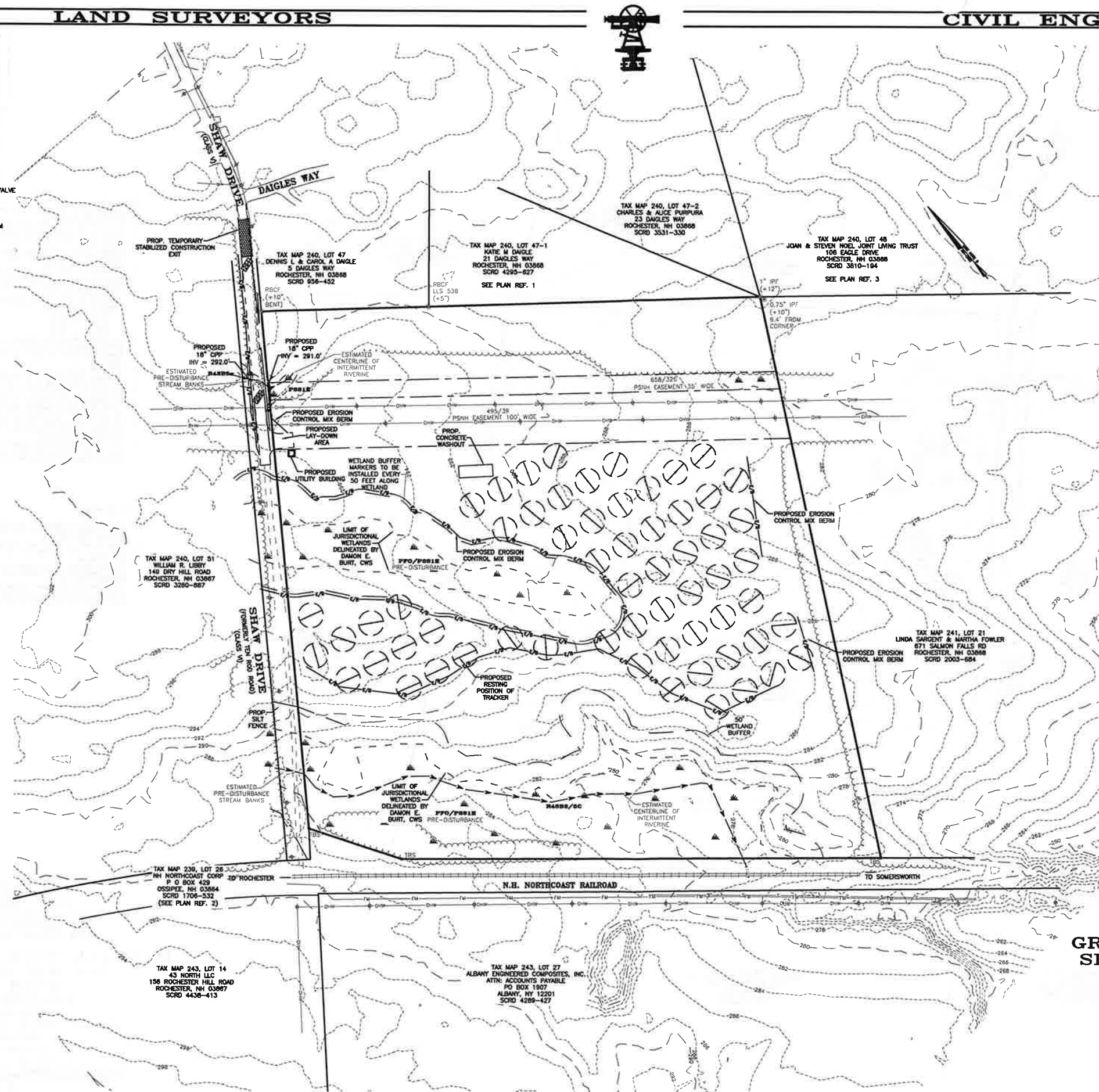
- PROPERTY LINE
- - - JURISDICTIONAL WETLANDS
- - - 50' WETLANDS BUFFER
- - - EXISTING TREE LINE
- - - EXISTING OVERHEAD WIRES
- - - EXISTING DRAIN LINE
- - - EXISTING SEWER LINE
- - - EXISTING FORCE MAIN SEWER LINE
- - - EXISTING WATER LINE
- - - EXISTING UTILITY POLE
- - - EXISTING MONUMENT
- - - EXISTING HYDRANT
- - - EXISTING WATER GATE OR SHUT-OFF VALVE
- - - PROPOSED OVERHEAD WIRES
- - - PROPOSED UNDERGROUND ELECTRIC
- - - PROPOSED EROSION CONTROL MIX BERM
- - - STABILIZED CONSTRUCTION EXIT



REVISIONS:
10/06/22 - REVISED PER TRC COMMENTS.
12/15/22 - ADD CONSTRUCTION SEQUENCE NOTES.
02/22/23 - REVISE SOLAR TRACKER ALIGNMENT.
06/23/23 - MODIFY SHAW DRIVE, MOVE UTILITY BUILDING
07/28/23 - REVISE EARTH BERM LOCATIONS

CONSTRUCTION SEQUENCE

- NOTES:
1. ESTABLISH STAGING AREA AS SHOWN ON CONSTRUCTION PLAN. USE THIS AREA FOR ALL MATERIAL STORAGE AND CONSTRUCTION EQUIPMENT.
 2. INSTALL EROSION CONTROL BERM AS SHOWN.
 3. REMOVE AND STOCKPILE WETLAND SOILS FROM SHAW DRIVE RECONSTRUCTION. STOCK PILE SHALL BE DONE ON SITE AND IN UPLAND AREAS. THE SOIL SHALL BE REUSED AS PART OF THE TEMPORARY WETLAND IMPACT AND RESTORATION AREAS.
 4. INSTALL ALL CROSS CULVERTS WITH HEADWALLS.
 5. BRING SHAW DRIVE UP TO SUB GRADE WITH SUITABLE FILL.
 6. INSTALL PROCESSED GRAVELS ON SHAW DRIVE IN ACCORDANCE WITH SHEET C-4.
 7. CONSTRUCT A LAY-DOWN AREA IN THE LOCATION SHOWN.
 8. WORKING FROM THE END OF THE PATH, DIG TRENCH FOR UNDERGROUND CONDUIT.
 9. DIG AREA FOR EACH TRACKING PANEL FOUNDATION.
 10. INSTALL UNDERGROUND CONDUIT 30" BELOW GRADE AND SURROUND IN SAND BOX AS SHOWN IN DETAIL ON SHEET C-4. CONDUIT RUN SHALL BE DONE TO AVOID REMOVAL OF TREE STUMPS.
 11. INSTALL FOUNDATION FOR SOLAR TRACKERS.
 12. INSTALL SOLAR TRACKERS.
 13. ALL CONSTRUCTION EQUIPMENT SHALL NOT DRIVE OR DISTURB ANY LAND OUTSIDE OF THE PROPOSED TRACKERS AND UNDERGROUND CONDUIT LOCATIONS.
 14. RESTORE AROUND THE TRACKERS AND OVER THE CONDUITS TO EXISTING CONDITIONS USING NEW ENGLAND SEED AT THE END OF CONSTRUCTION.
 15. REMOVE ALL EROSION CONTROL MEASURES WITHIN 30-DAYS ONCE THE LAND IS FULL ESTABLISHED.



TAX MAP 240, LOT 49
OWNER OF RECORD:
GNM SOLAR 17, LLC
123 WASHINGTON STREET
ROCHESTER N.H. 03867
SCRD BOOK 4946, PAGE 485

GRADING, DRAINAGE, EROSION & SEDIMENTATION CONTROL PLAN
TAX MAP 240, LOT 49
SHAW DRIVE
ROCHESTER NH
PREPARED FOR:
GNM SOLAR 17, LLC
SEPTEMBER 2022
GRAPHIC SCALE



(IN FEET)
1 INCH = 100 FT.

FILE NO. 104
PLAN NO. C-3295
DWG. NO. 21033 SP-2

31 Mooney Street, Alton, N.H. 603-875-3948

NORWAY PLAINS ASSOCIATES, INC.

2 Continental Blvd., Rochester, N.H. 603-335-3948

LEGEND

—	PROPERTY LINE
- - -	JURISDICTIONAL WETLANDS
—	EXISTING OVERHEAD WIRES
—	EXISTING WATER MAIN
—	EXISTING GRAVITY SEWER MAIN
—	EXISTING HYDRANT
—	EXISTING WATER GATE OR SHUT-OFF VALVE
—	EXISTING UTILITY POLE
—	PROPOSED UNDERGROUND ELECTRIC WIRES
—	PROPOSED OVERHEAD WIRES
—	PROPOSED DRAIN LINE



REVISIONS:
10/06/22 - REVISED FOR TRG COMMENTS.
02/22/23 - REVISE SOLAR TRACKER ALIGNMENT.
06/20/23 - REVISE SHAW DRIVE, MOVE UTILITY BUILDING, REVISE UNDERGROUND UTILITIES, REMOVE TWO WETLAND CROSSINGS.

NOTES:

- CONSTRUCTION WILL CONFORM TO THE FOLLOWING UTILITIES STANDARDS AND SPECIFICATION:
A) SANITARY SEWER DISPOSAL - CITY OF ROCHESTER
B) ELECTRIC DISTRIBUTION - EVERSOURCE
C) TELEPHONE - FAIRPOINT
D) CABLE - BREEZELINE
E) WATER - CITY OF ROCHESTER
- ALL PROPOSED ON-SITE UTILITIES SHALL BE INSTALLED UNDERGROUND.
- WATERLINE LOCATION IS APPROXIMATE BASED ON "CITY OF ROCHESTER, CONTRACT DRAWINGS FOR, GRANITE STATE BUSINESS PARK WATER MAIN EXTENSION, ROCHESTER, NH, JUNE 2019, CONFORMED VERSION, AUGUST 2019, BY WRIGHT-PIERCE".
- THE LOCATION OF THE UNDERGROUND CONDUITS SHALL BE ADJUSTED TO MINIMIZE THE OVERALL EARTH DISTURBANCE AND TO AVOID ANY LARGE STUMPS, ROCKS, OR LEDGE.
- THE PROPOSED ELECTRIC WIRES WILL BE INSTALLED EITHER OVERHEAD OR UNDER THE RAILROAD AS AGREED UPON BY BOTH EVERSOURCE AND N.H. NORTHCOAST RAILROAD.

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITHIN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.

UTILITY PLAN
TAX MAP 240, LOT 49
SHAW DRIVE
ROCHESTER NH
PREPARED FOR:
GNM SOLAR 17, LLC
SEPTEMBER 2022
GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 INCH = 50 FEET

FILE NO. 104
PLAN NO. C-3235
DWG. NO. 21033 SP-2

31 Mooney Street, Alton, N.H. 603-875-3948

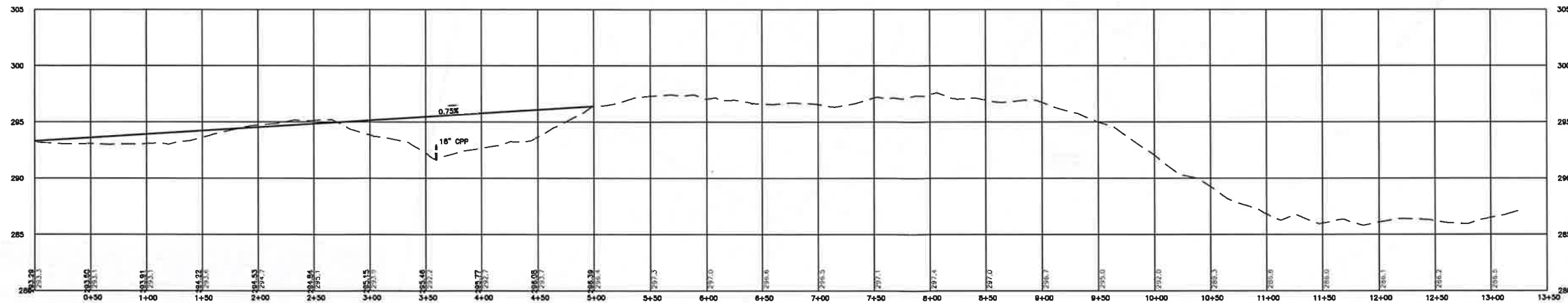
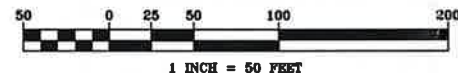
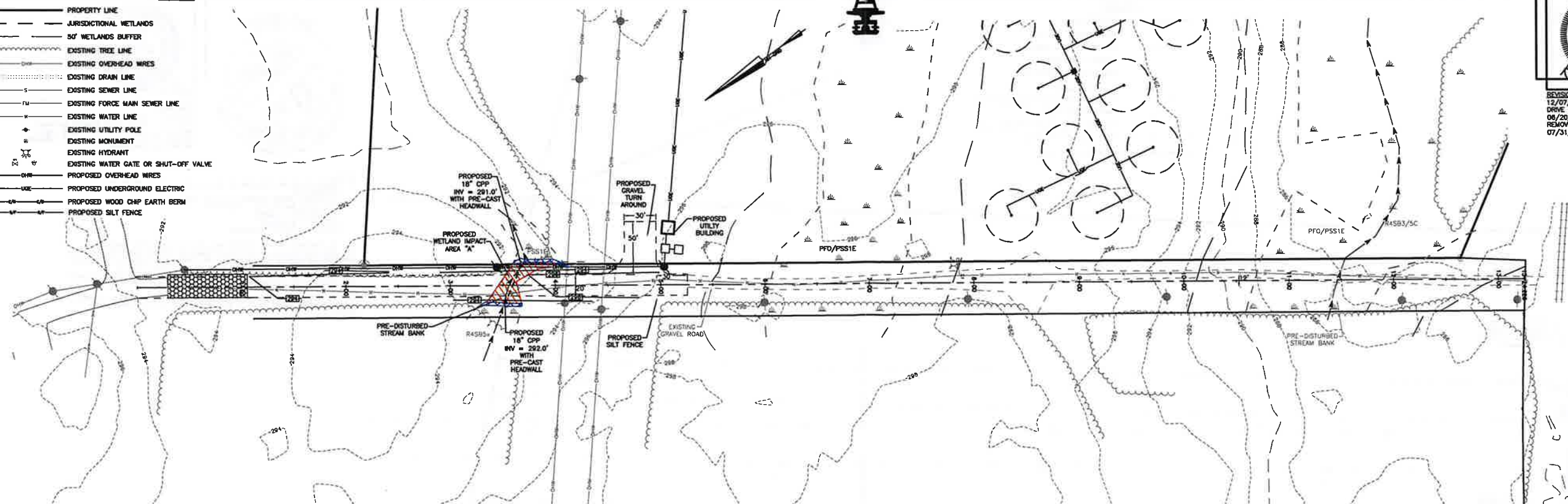
NORWAY PLAINS ASSOCIATES, INC.

2 Continental Blvd., Rochester, N.H. 603-335-3948

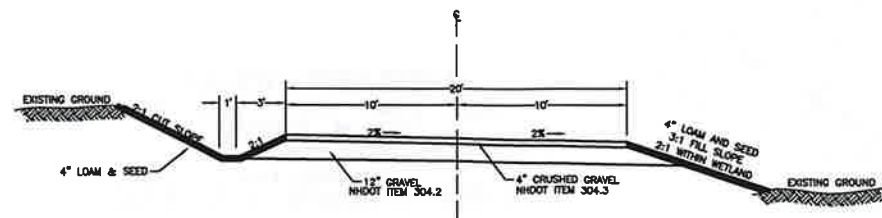


REVISIONS:
12/07/2022 - REVISE TYPICAL CROSS SECTIONS AND SHAW DRIVE RECONSTRUCTION NOTES.
08/20/23 - REVISE SHAW DRIVE, MOVE UTILITY BUILDING, REMOVE TWO WETLAND CROSSINGS, REVISE PROFILE.
07/31/23 - ADD TURN AROUND DIMENSIONS.

- LEGEND**
- PROPERTY LINE
 - - - JURISDICTIONAL WETLANDS
 - - - 50' WETLANDS BUFFER
 - - - EXISTING TREE LINE
 - - - EXISTING OVERHEAD WIRES
 - - - EXISTING DRAIN LINE
 - - - EXISTING SEWER LINE
 - - - EXISTING FORCE MAIN SEWER LINE
 - - - EXISTING WATER LINE
 - - - EXISTING UTILITY POLE
 - - - EXISTING MONUMENT
 - - - EXISTING HYDRANT
 - - - EXISTING WATER GATE OR SHUT-OFF VALVE
 - - - PROPOSED OVERHEAD WIRES
 - - - PROPOSED UNDERGROUND ELECTRIC
 - - - PROPOSED WOOD CHIP EARTH BERM
 - - - PROPOSED SILT FENCE



HORIZONTAL - 1 INCH = 50 FEET
VERTICAL - 1 INCH = 5 FEET



SHAW DRIVE CROSS-SECTIONS
1 INCH = 5 FEET

WETLANDS IMPACTS

AREA	PERMANENT WETLANDS IMPACT (SQUARE FOOT)	TEMPORARY WETLANDS IMPACT (SQUARE FOOT)
A	968 SF	286 SF

SURFACE WATER IMPACTS

AREA	STREAM WETLAND IMPACT (LINEAR FEET)	STREAM BANK WETLANDS IMPACT (SQUARE FOOT)
A	50 LF	392 SF

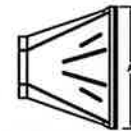
- SHAW DRIVE RECONSTRUCTION NOTES:**
1. INSTALL ALL TEMPORARY EROSION CONTROL MEASURES AS DEPICTED ON THE PLANS.
 2. REMOVE ALL TOP SOIL AND WETLAND SOILS FROM THE ROADWAY AND SIDE SLOPE AREAS. WETLAND SOILS SHALL BE REUSED FOR ALL TEMPORARY WETLAND AREAS OR WETLAND RESTORATION AREAS.
 3. ALL STOCKPILES OF TOP SOILS OR WETLAND SOILS SHALL BE LOCATED OUTSIDE THE LIMITS OF ANY JURISDICTIONAL WETLANDS OR CONSERVATION OVERLAY DISTRICT AREAS.
 4. INSTALL ALL DRAINAGE PIPE AND HEADWALL AS DEPICTED ON THE PLANS.
 5. PLACE COMMON FILL IN 12 INCH LIFTS. COMPACT COMMON FILL TO 95% MAXIMUM PROCTOR DENSITY.
 6. PLACE GRAVEL IN MAXIMUM 8 INCH LIFTS. COMPACT TO 95% MAXIMUM PROCTOR DENSITY.
 7. PLACE CRUSHED GRAVEL IN MAXIMUM 8 INCH LIFTS. COMPACT TO 95% MAXIMUM PROCTOR DENSITY.
 8. INSTALL A MINIMUM OF 4" OF LOAM ON THE ROADWAY SIDE SLOPES AND A MINIMUM OF 8" OF WETLAND SOILS AT ALL TEMPORARY WETLAND IMPACT AREAS.
 9. REMOVE TEMPORARY EROSION CONTROL MEASURES ONCE THE SIDE SLOPES AND TEMPORARY WETLAND IMPACT AREAS ARE FULLY ESTABLISHED.

**SHAW DRIVE IMPROVEMENT
PLAN & PROFILE**
TAX MAP 240, LOT 49
SHAW DRIVE
ROCHESTER NH
PREPARED FOR:
GNM SOLAR 17, LLC
SEPTEMBER 2022

FILE NO. 104
PLAN NO. C-3235
DWG. NO. 21033 SP-2

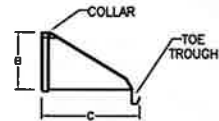


CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITHIN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.

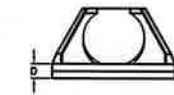


DIMENSIONS (INCHES)				
PIPE DIAMETERS	A	B	C	D
10" / 12"	42	14.5	33	6
15"	41	19	34	6
18"	48	22	43	6
24"	58.5	28	48	6
30"	68	36	63.5	6
36"	88	43	66.5	6

TOP VIEW



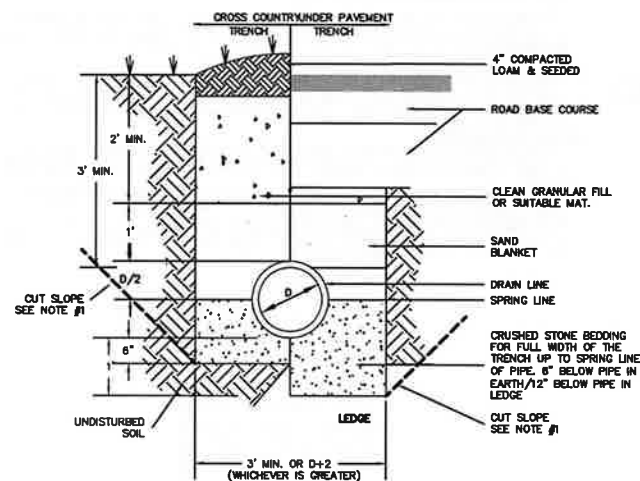
SIDE VIEW



FRONT VIEW

FLARED END SECTION DETAIL

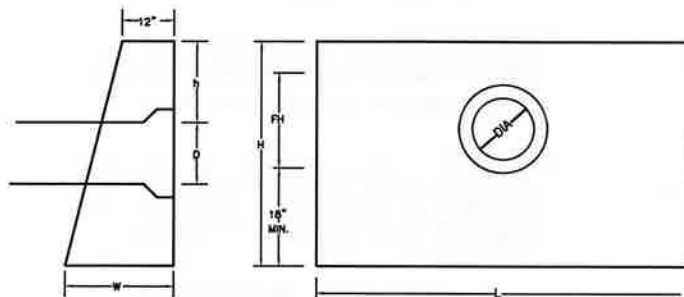
NOT TO SCALE



- NOTES:
1. PIPES MAY BE INSTALLED BY EXCAVATING AN OPEN TRENCH WITH SIDE SLOPES OF 1:1 MAXIMUM TO A DEPTH OF 4'-FT. INSTALLATIONS DEEPER THAN 4'-FT REQUIRE THE USE OF A TRENCH BOX.
 2. PIPE MATERIALS SHALL BE AS SPECIFIED ON THE DESIGN PLAN.
 3. SAND BLANKET MAY BE OMITTED FOR REINFORCED CONCRETE PIPE.

DRAINAGE PIPE TRENCH INSTALLATION DETAIL

NOT TO SCALE

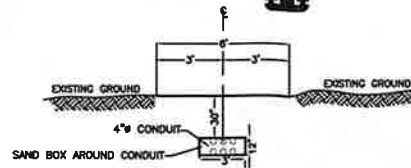


DA	HEADWALL LENGTH L	HEADWALL HEIGHT H	FILL HEIGHT FH	PIPE COVER h	HEADWALL BTM HEIGHT W
12"	4'3"	3'9"	1'1"	1'3"	2'
15"	6'	4'3"	1'7"	1'6"	2'1"
18"	7'	4'6"	1'10"	1'6"	2'2"
24"	8'	5'	2'4"	1'6"	2'3"
30"	11'	5'6"	2'10"	1'6"	2'5"
36"	13'	6'	3'4"	1'6"	2'6"
42"	15'9"	6'9"	4'1"	1'6"	2'9"
48"	17'9"	7'3"	4'7"	1'9"	2'10"

PRE-CAST HEADWALL

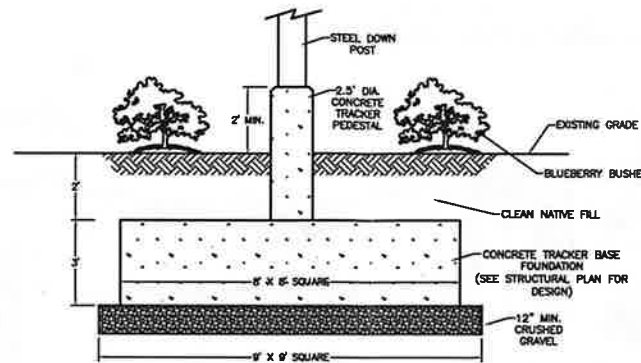
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UTILITY CONDUIT CONSTRUCTION CROSS-SECTION

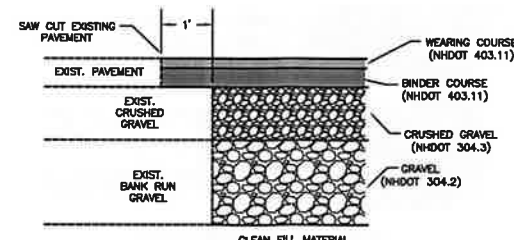
- NOTES:
1. INSTALL EROSION CONTROL BERM AS SHOWN ON SHEET C-2. THE TRENCH PATH SHALL BE PLACED TO AVOID ANY STUMPS, LEDGE OR LARGE ROCKS.
 2. DIG TRENCH FOR UNDERGROUND CONDUIT.
 3. INSTALL UNDERGROUND CONDUIT 30\"/>



STANDARD SOLAR TRACKER INSTALLATION DETAIL

NOT TO SCALE

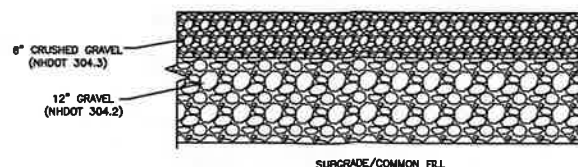
- NOTES:
1. CONCRETE TRACKER BASE OR PEDESTAL DESIGN BY OTHERS. REFER TO STRUCTURAL DESIGN.
 2. TRACKERS PLACED IN UPLAND AREAS SHALL HAVE A MINIMUM OF 4\"/>



TYPICAL PAVEMENT SAWCUT DETAIL

NOT TO SCALE

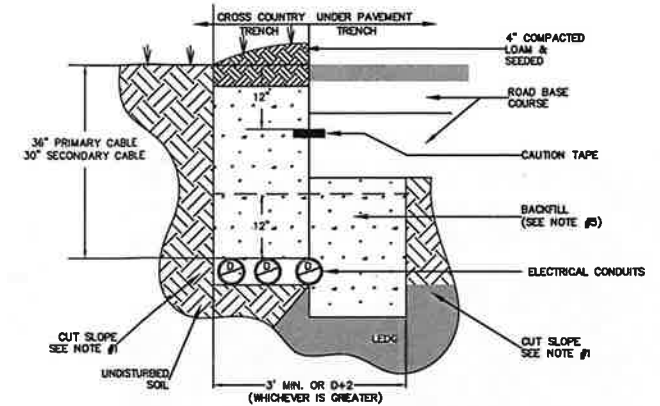
1. SAWCUT THROUGH DEPTH OF PAVEMENT AT LEAST 1 FT. FROM EDGE OR GREATER IF REQUIRED.
2. INSTALL AND COMPACT CRUSHED GRAVEL TO GRADE.
3. PLACE BINDER COURSE.
4. GRIND OR SAWCUT EXISTING PAVEMENT 1 FT. WIDE TO A DEPTH NECESSARY TO PROPERLY MATCH NEW WEARING COURSE PAVEMENT.
5. TACK COAT ALL EXISTING PAVEMENT SURFACES WITH EMULSIFIED ASPHALT (MS-1) PRIOR TO PLACING NEW PAVEMENT.



GRAVEL PARKING & TURN AROUND CROSS-SECTIONS

NOT TO SCALE

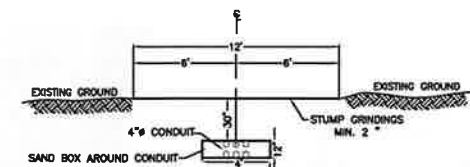
- PAVEMENT NOTES:
1. PLACE COMMON FILL IN 12 INCH LIFTS. COMPACT COMMON FILL TO 95% MAXIMUM PROCTOR DENSITY.
 2. PLACE GRAVEL IN MAXIMUM 8 INCH LIFTS. COMPACT TO 95% MAXIMUM PROCTOR DENSITY.
 3. PLACE CRUSHED GRAVEL IN MAXIMUM 8 INCH LIFTS. COMPACT TO 95% MAXIMUM PROCTOR DENSITY.



- NOTES:
1. ALL NON-METALLIC CONDUIT AND FITTINGS SHALL BE ELECTRICAL GRADE, SCHEDULE 40 PVC, AND SHALL CONFORM TO THE APPLICABLE SECTIONS OF NFPA 70-1990 AND BE UL LISTED. ONLY GRAY-COLORED CONDUIT WILL BE ACCEPTED. ANY PVC CONDUIT NOT HAVING THE PROPER NFPA AND UL MARKINGS WILL NOT BE ACCEPTED. ALL STEEL CONDUITS SHALL CONFORM TO ASTM A120 AND BE ROOD GALVANIZED STEEL. ALL PVC JOINTS MUST BE COINTEGRATED. STEEL FITTINGS SHALL BE SEALED WITH COMPOUND.
 2. ALL 90 DEGREE SWEEPS WILL BE MADE USING ROOD GALVANIZED STEEL WITH A MINIMUM RADIUS OF 36 INCHES FOR PRIMARY CABLES AND 24 INCHES FOR SECONDARY CABLES. ALL STEEL SWEEPS WITHIN 18\"/>

ELECTRICAL & UNDERGROUND UTILITY TRENCH INSTALLATION DETAIL

NOT TO SCALE



TEMPORARY IMPACT CONSTRUCTION PATH CROSS-SECTION

- NOTES:
1. INSTALL EROSION CONTROL BERM AROUND PERIMETER OF DISTURBANCE AREA AS SHOWN ON SHEET C-2.
 2. DIG TRENCH FOR UNDERGROUND CONDUIT.
 3. STOCKPILE MATERIAL WITHIN TEMPORARY IMPACT AREAS AS NEEDED. DO NOT STOCKPILE ANY MATERIAL IN WETLANDS OR WETLAND BUFFERS.
 4. INSTALL UNDERGROUND CONDUIT 30\"/>

GENERAL UTILITY NOTES

1. CONTRACTOR SHALL NOTIFY DIG-SAFE (1-888 344-7233) 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
2. ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE AS SHOWN. THE CONTRACTOR SHALL VERIFY THEIR LOCATIONS AND ELEVATIONS.
3. THESE PLAN SHOWS ONLY THOSE FEATURES THAT WERE VISUALLY APPARENT ON THE DATE OF THE SURVEY. THE ABSENCE OF SUBSURFACE STRUCTURES, UTILITIES, ETC. FROM THIS PLAN, BUT IN EXISTENCE IS NOT INTENDED OR IMPLIED.
4. ANY UTILITY POLES THAT NEED TO BE RELOCATED SHALL BE COORDINATED WITH EVERSOURCE OR VERIZON, WHOM EVER HAS CONTROL OVER THEM.
5. PROPOSED UTILITIES TO CONNECT TO THE SITE SHALL BE OVERHEAD, WHILE ALL OTHER UTILITIES ARE TO BE UNDERGROUND. COORDINATE LOCATION OF UNDERGROUND UTILITIES AND TRANSFORMER PADS WITH EVERSOURCE AND OTHER PERTINENT UTILITY COMPANIES.

CONSTRUCTION DETAILS
TAX MAP 240, LOT 49
SHAW DRIVE
ROCHESTER NH
PREPARED FOR:
GNM SOLAR 17, LLC
SEPTEMBER 2022

The image contains two technical drawings. The top drawing, titled "TYPICAL OPEN SPILLWAY", shows a plan view of a rectangular spillway. It includes labels: "RESTRICT BASH SIDES TO 3:1 OR FLATTER" pointing to the side slopes, "NOTE: SIZE SPILLWAY TO CONVEY PEAK DESIGN FLOW" pointing to the central channel, "OUTLET PIPE OR USE ALTERNATIVE OPEN SPILLWAY" pointing to a small structure at the downstream end, "EARTH EMBANKMENT" pointing to the side slopes, "OUTLET PROTECTION" pointing to a structure at the very end, and "EXCAVATE, IF NECESSARY FOR STORAGE" pointing to an area at the downstream end. The bottom drawing, titled "EMBANKMENT SECTION THRU RISER", shows a cross-section of an embankment. It includes labels: "ALL SLOPES 1:3 OR FLATTER" pointing to the side slopes, "3'-0\" MIN." pointing to the top width, "12\" MIN." pointing to the riser height, "PERFORATED RISER" pointing to the riser structure, and "WATERTIGHT CONNECTION" pointing to the base of the riser. A dimension line at the bottom left indicates "LENGTH SEE PLAN".

TYPICAL OPEN SPILLWAY

PLAN VIEW

LENGTH SEE PLAN

WIDTH SEE PLANS

2:1 SIDE SLOPES MAX

OUT FLOW

TRIBUTARY AREA (ACRES)	LENGTH OF SPILLWAY WOP Lw (FT)
0-1.0	50
1.01-2.0	37
2.01-3.0	30
3.01-4.0	19
4.01-5.0	15

EMBANKMENT

GRAVEL

WOVEN FABRIC (MIRAFI 600X OR EQUAL)

2"-5" MIN.

WATERING PIPE

20 FEET

4" MIN.

1.5" MAX.

12" MEAN DIA. STONE

5' MIN.

6" PERFORATED DEWATERING PIPE

SEALED END CAP

MAX SLOPE 3:1

2" MIN.

OUTLET PROFILE

1.5" MAX.

4" MIN. TOP WIDTH

12" MEAN DIA. STONE

5' MAX. EMBANKMENT HEIGHT

OUTLET HEIGHT

FABRIC

3:1 MAX SLOPE

2" MIN.

EXCAVATION DEPTH

SPACING BETWEEN CHECK DAMS	
SLOPE (FT/FT)	LENGTH (FT)
0.020	75
0.030	50
0.040	37
0.050	30
0.080	19
0.100	15
0.120	13
0.150	10

DRAINAGE WAY CROSS-SECTION

2" - 3" STONE

L = THE DISTANCE SUCH THAT POINTS A & B ARE OF EQUAL ELEVATION.

SPACING BETWEEN STONE CHECK DAMS

MAINTENANCE REQUIREMENTS:

1. EROSION CONTROL MIX BEMS SHOULD BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL EVENT AND AT LEAST DAILY DURING PROLONGED RAINFALL.
2. EROSION CONTROL MIX BEMS SHOULD BE PREPARED IMMEDIATELY IF THERE ARE ANY SIGNS OF EROSION OR SATURATION OF THE BARRIER.
3. IF THERE ARE SIGNS OF GAOING OR OF THE BARRIER OR IMPOUNDING OF LARGE VOLUMES OF WATER BEHIND THEM, THE EROSION CONTROL MIX BEMS SHOULD BE REMOVED WITH GREAT CARE TO PREVENT THE RELEASE OF ANY POLLUTANTS AS A DIVERSION POND DIRECTING RUNOFF TO A SEDIMENT TRAP OR BASIN.
4. EROSION CONTROL MIX BEMS SHOULD BE REMOVED IMMEDIATELY.
5. SEDIMENT DEPOSITS MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE THIRD (1/3) OF THE HEIGHT OF THE BARRIER.
6. EROSION CONTROL MIX BEMS WILL BE REAPPLIED OR REAPPLIED AS NEEDED, ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE BARRIER IS NO LONGER REQUIRED SHOULD BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SLOTTED.

SPECIFICATIONS:

SOIL PREPARATION:

1. **INSTALL NEEDED SEDIMENT TRAPS.**
2. **GRADE AS NECESSARY FOR THE ACCESS OF EQUIPMENT FOR SEEDED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.**
3. **RUNOFF SHALL BE DIVERTED FROM THE SEEDED AREA.**
4. **ON SLOPES 4:1 OR STEEPER, THE FINAL PREPARATION SHALL INCLUDE CREATING HORIZONTAL GROOVES PERPENDICULAR TO THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNOFF.**

SEEDING PREPARATION:

1. **STONES AND TRASH SHALL BE REMOVED SO AS NOT TO INTERFERE WITH THE SEEDING AREA.**
2. **WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE APPLYING SEED.**
3. **IF APPLICABLE, FERTILIZER AND ORGANIC SOIL AMENDMENTS SHALL BE APPLIED DURING THE GROWING SEASON.**
4. **APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. FERTILIZER SHALL BE RESTRICTED TO LIME, WOOD ASH OR LOW PHOSPHATE AND SLOW RELEASE NITROGEN VARIETIES, UNLESS A SOIL TEST WARRANTS OTHERWISE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL FERTILIZER AND LIMESTONE MAY BE APPLIED AT THE FOLLOWING RATES:**

**LIMESTONE APPLICATION RATE = 3 TONS/ACRE (136 LB./1,000-SF)
*EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE**

**FERTILIZER APPLICATION RATE = 870 LB./ACRE (20 LB./1,000-SF)
*LOW PHOSPHATE FERTILIZER (5-0-4) OR EQUIVALENT**

SEEDING:

1. **APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL CULTPACKER TYPE SEEDER OR HYDRO SEEDER (INCLUDEY INCLUDING SEED AND FERTILIZER). NORMAL SEEDING RATE IS FROM 1/4 TO 1/2 HILB. HYDROSEEDING THAT INCLUDES MULCH MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED BY 10% WHEN HYDROSEEDING.**
2. **TEMPORARY SEED SHALL TYPICALLY OCCUR PRIOR TO SEPTEMBER 15.**
3. **AREAS SEEDED BETWEEN MAY 15 AND AUGUST 15 SHALL BE COVERED WITH HAY OR STRAW MULCH, ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE N-HSM, VOL. 3.**
4. **VEGETATED GROWTH COVERING AT LEAST 85% OF THE DISTURBED AREA SHALL BE ACHIEVED PRIOR TO OCTOBER 15. IF THIS COVERAGE IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY STABILIZATION MEASURES FOR OVER WINTER PROTECTION.**

MAINTENANCE REQUIREMENTS:

1. **TEMPORARY SEEDING SHALL BE INSPECTED WEEKLY AFTER ANY RAINFALL EXCEEDING 1/2 INCH IN 24 HOURS OR ACTIVE CONSTRUCTION SITES. TEMPORARY SEEDING SHALL BE INSPECTED JUST PRIOR TO SEPTEMBER 15, TO ASCERTAIN WHETHER ADDITIONAL SEEDING IS REQUIRED TO PROVIDE STABILIZATION OVER THE WINTER PERIOD.**
2. **IF COVER ON INSPECTION AREAS SHALL BE RESEEDED TO ACHIEVE PLANT STABILIZATION OF EXPOSED SOILS. IF IT IS TOO LATE IN THE PLANTING SEASON TO APPLY ADDITIONAL SEED, THEN OTHER TEMPORARY STABILIZATION MEASURES SHALL BE IMPLEMENTED.**
3. **ANY MODES OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND AREAS SHALL BE RESEEDED, WITH OTHER TEMPORARY MEASURES (I.E. MULCH, ETC.) USED TO PROVIDE EROSION PROTECTION DURING THE PERIOD OF VEGETATION ESTABLISHMENT.**

Diagram illustrating the plan view of a hay bale storage structure. The structure is rectangular, with dimensions labeled as 10-FT MIN. (width) and VARIES (length). The structure is constructed using 10 MIL PLASTIC (bottom layer) and STAKE (2 PER BALE) (top layer). The interior is labeled HAY OR STRAW BALE.

THE BARRIER MUST BE A MINIMUM OF 2'-FT WIDE.

EROSION CONTROL MIX

BERM DETAIL

NOT TO SCALE

75' MIN.

(MAY BE 50' WHERE DIVERSION RIDGE IS PROVIDED)

10' MIN.

EDGE PAVEMENT

PLAN

CONCRETE WASHOUT
AREA DETAIL
NOT TO SCALE

C-6

**DUST CONTROL PRACTICES:**

1. APPLY DUST CONTROL MEASURES AS NECESSARY TO MAINTAIN CONTROL OF DUST ON SITE.
2. **WATER APPLICATION:**
 - A) MOISTEN EXPOSED SOIL SURFACES PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST.
 - B) AVOID EXCESSIVE APPLICATION OF WATER THAT WOULD RESULT IN MOBILIZING SEDIMENT AND SUBSEQUENT DEPOSITION IN NATURAL WATERBODIES.
3. **STONE APPLICATION:**
 - A) COVER SURFACE WITH CRUSHED OR COARSE GRAVEL.
 - B) IN AREAS NEAR WATERWAYS USE ONLY CHEMICALLY STABILIZED OR WASHED AGGREGATE.
4. REFER TO "NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3 CONSTRUCTION PHASE EROSION AND SEDIMENT CONTROLS, DECEMBER 2008" FOR OTHER ALLOWABLE DUST CONTROL PRACTICES (I.E. COMMERCIAL TACKERS OR CHEMICAL TREATMENTS SUCH AS CALCIUM CHLORIDE, ETC.)

STOCKPILE PRACTICES:

1. LOCATE STOCKPILES A MINIMUM OF 50-FT. AWAY FROM CONCENTRATED FLOWS OF STORMWATER, DRAINAGE COURSES OR WELLS.
2. PROTECT ALL STOCKPILES FROM STORMWATER RUN-ON USING TEMPORARY PERIMETER MEASURES SUCH AS DIVERSIONS, BERM, SANDBAGS OR OTHER APPROVED PRACTICES.
3. STOCKPILES SHALL BE SURROUNDED BY SEDIMENT BARRIERS AS DESCRIBED ON THE PLANS AND IN NHSM VOL. 3. TO PREVENT MIGRATION OF MATERIAL BEYOND THE IMMEDIATE CONFINES OF THE STOCKPILE.
4. IMPLEMENT WIND EROSION CONTROL PRACTICES AS APPROPRIATE ON ALL STOCKPILED MATERIAL.
5. PLACE BAGGED MATERIALS ON PALETTES OR UNDERCOVER.

PROTECTION OF INACTIVE STOCKPILES:

6. INACTIVE SOIL STOCKPILES SHALL BE COVERED WITH ANCHORED TARPS OR PROTECTED WITH SOIL STABILIZATION MEASURES (TEMPORARY SEED AND MULCH OR OTHER TEMPORARY STABILIZATION PRACTICE) AND TEMPORARY PERIMETER SEDIMENT BARRIERS (I.E. SILT FENCE, ETC.) AT ALL TIMES.
7. INACTIVE STOCKPILES OF CONCRETE RUBBLE, ASPHALT CONCRETE RUBBLE, AGGREGATE MATERIALS, AND SIMILAR MATERIALS SHALL BE PROTECTED WITH TEMPORARY SEDIMENT PERIMETER BARRIERS (I.E. SILT FENCE, ETC.) AT ALL TIMES. IF THE MATERIALS ARE A SOURCE OF DUST, THEY SHALL ALSO BE COVERED.

PROTECTION OF ACTIVE STOCKPILES:

8. ALL STOCKPILES SHALL BE SURROUNDED WITH TEMPORARY LINEAR SEDIMENT BARRIERS (I.E. SILT FENCE, ETC.) PRIOR TO THE ONSET OF PRECIPITATION. PERIMETER BARRIERS SHALL BE MAINTAINED AT ALL TIMES, AND ADJUSTED AS NEEDED TO ACCOMMODATE THE DELIVERY AND REMOVAL OF MATERIAL FROM THE STOCKPILE. THE INTEGRITY OF THE BARRIER SHALL BE INSPECTED AT THE END OF EACH WORKING DAY.
9. WHEN A STORM IS PREDICTED, STOCKPILES SHALL BE PROTECTED WITH AN ANCHORED PROTECTIVE COVERING.

PERMANENT VEGETATION SEEDING RECOMMENDATIONS

USE	MIXTURE	SPECIES	LBS./ACRE	LBS./ 1,000-SF
STEEP CUTS AND FILLS, BORROW AREAS AND DISPOSAL AREAS	A	TALL FESCUE	20	0.45
		CREeping RED FESCUE	20	0.45
		REDTOP	2	0.05
WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANNELS WITH FLOWING WATER	A	TALL FESCUE	20	0.45
		CREeping RED FESCUE	20	0.45
		REDTOP	2	0.05
LIGHTLY USED PARKING LOTS, OOD AREAS, UNUSED LANDS, AND LOW INTENSITY RECREATION SITES	A	TALL FESCUE	20	0.45
		CREeping RED FESCUE	20	0.45
		REDTOP	2	0.05
PLAY AREAS AND ATHLETIC FIELDS (TOPSOIL ESSENTIAL FOR GOOD TURF)	F	CREeping RED FESCUE	50	1.15
		KENTUCKY BLUEGRASS	50	1.15
		TOTAL	100	2.30

SOURCES:

1. NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3, TABLES 4-2 AND 4-3
2. MINNICK, E.L. AND H.T. MARSHALL, (AUGUST 1992)

PERMANENT VEGETATION:**SPECIFICATIONS:****SITE PREPARATION:**

1. INSTALL NEEDED EROSION AND SEDIMENT CONTROL MEASURES SUCH AS SILTATION BARRIERS, DIVERSIONS, AND SEDIMENT TRAPS.
2. GRADE AS NEEDED FOR THE ACCESS OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.
3. RUNOFF SHALL BE DIVERTED FROM THE SEEDBED AREA.
4. ON SLOPES 4:1 OR STEEPER, THE FINAL PREPARATION SHALL INCLUDE CREATING HORIZONTAL GROOVES PERPENDICULAR TO THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNOFF.

SEEDING PREPARATION:

1. WORK LINE AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OPERATION SHALL BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM, FINE SEEDBED IS PREPARED. ALL BUT CLAY AND SILT SOILS SHALL BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE.
2. REMOVE FROM THE SURFACE ALL STONES ZINCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS SUCH AS WIRE, CABLE, TREE ROOTS, CONCRETE CLOUDS, LUMPS, TRASH OR OTHER UNSUITABLE MATERIAL.
3. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED; THE AREA MUST BE TILLED AND FIRMED AS ABOVE.
4. WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED.
5. IF APPLICABLE, FERTILIZER AND ORGANIC SOIL AMENDMENTS SHALL BE APPLIED DURING THE GROWING SEASON.
6. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. FERTILIZER SHALL BE RESTRICTED TO LIME, WOOD ASH OR LOW PHOSPHATE AND SLOW RELEASE NITROGEN VARIETIES, UNLESS A SOIL TEST WARRANTS OTHERWISE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL FERTILIZER AND LIMESTONE MAY BE APPLIED AT THE FOLLOWING RATES:

LIMESTONE APPLICATION RATE = 3 TONS/ACRE (138 LB./1,000-SF)*

*EQUIVALENT TO 30X CALCIUM PLUS MAGNESIUM OXIDE

FERTILIZER APPLICATION RATE = 870 LB./ACRE (20 LB./1,000-SF)*

*LOW PHOSPHATE FERTILIZER (0-0-4) OR EQUIVALENT

SEEDING:

1. INOCULATE ALL LEGUME SEED WITH THE CORRECT TYPE OF INOCULANT.
2. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL CULTIPACKER TYPE SEEDER OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER). NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSEEDING THAT INCLUDES MULCH MAY BE LEFT ON SOIL SURFACE, WHERE FEASIBLE EXCEPT WHERE EITHER CULTIPACKER TYPE SEEDER OR HYDROSEEDER IS USED. THE SEEDBED SHALL BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A ROLLER, OR LIGHT DRAG.
3. SPRING SEEDING USUALLY GIVES THE BEST RESULTS FOR ALL SEED MIXES OR WITH LEGUMES. PERMANENT SEEDING SHALL BE COMPLETED 45 DAYS PRIOR TO FIRST KILLING FROST. WHEN CROWN VETCH IS SEEDING IN LATE SUMMER AT LEAST 35% OF THE SEED SHALL BE HARD SEED (UNSCARIFIED). IF SEEDING CANNOT BE DONE WITHIN THE SPECIFIED SEEDING DATES, MULCH ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE NHSM, VOL. 3, AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.
4. AREAS SEEDING BETWEEN MAY 15 AND AUGUST 15 SHALL BE COVERED WITH HAY OR STRAW MULCH, ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE NHSM, VOL. 3.
5. VEGETATED GROWTH COVERING AT LEAST 85% OF THE DISTURBED AREA SHALL BE ACHIEVED PRIOR TO OCTOBER 15. IF THIS CONDITION IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY STABILIZATION MEASURES FOR OVER WINTER PROTECTION.

HYDROSEEDING:

1. WHEN HYDROSEEDING (HYDRAULIC APPLICATION), PREPARE THE SEEDBED AS SPECIFIED ABOVE OR BY HAND RANGING TO LOOSEN AND SMOOTH THE SOIL AND REMOVE SURFACE STONES LARGER THAN 2 INCHES IN DIAMETER.
2. SLOPES MUST BE NO STEEPER THAN 2:1 (2 FEET HORIZONTALLY BY 1 FOOT VERTICALLY). LIME AND FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. THE USE OF FIBER MULCH ON CRITICAL AREAS IS NOT RECOMMENDED (UNLESS IT IS USED TO HOLD STRAW OR HAY). BETTER PROTECTION IS GAINED BY USING STRAW MULCH AND HOLDING IT WITH ADHESIVE MATERIALS OR 500 POUNDS PER ACRE OF WOOD FIBER MULCH.
4. SEEDING RATES MUST BE INCREASED BY 10% WHEN HYDROSEEDING.

MAINTENANCE REQUIREMENTS:

1. PERMANENT SEEDING AREAS SHALL BE INSPECTED AT LEAST MONTHLY DURING THE COURSE OF CONSTRUCTION. INSPECTION, MAINTENANCE AND CORRECTIVE ACTIONS SHALL CONTINUE UNTIL THE OWNER ASSUMES PERMANENT OPERATION OF THE SITE.
2. SEEDING AREAS SHALL BE MOVED AS REQUIRED TO MAINTAIN A HEALTHY STAND OF VEGETATION. MOWING HEIGHT AND FREQUENCY DEPEND OF TYPE OF GRASS COVER. BASED ON INSPECTION, AREAS SHALL BE RESEEDING TO ACHIEVE FULL STABILIZATION OF EXPOSED SOILS.
3. AT A MINIMUM 85% OF THE SOIL SURFACE SHALL BE COVERED BY VEGETATION.
4. IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND AREAS SHALL BE RESEEDING, WITH OTHER TEMPORARY MEASURES (I.E. MULCH, ETC.) USED TO PROVIDE EROSION PROTECTION DURING THE PERIOD OF VEGETATION ESTABLISHMENT.

GENERAL CONSTRUCTION PHASING:

1. **STABILIZATION:**

A SITE IS DEEMED STABILIZED WHEN IT IS IN A CONDITION IN WHICH THE SOIL ON SITE WILL NOT EXPERIENCE ACCELERATED OR UNNATURAL EROSION UNDER THE CONDITIONS OF A 10-YEAR STORM EVENT, SUCH AS BUT NOT LIMITED TO:

 - a) A MINIMUM OF 3-INCHES OF NON-EROSIVE COVER HAS BEEN ESTABLISHED;
 - b) A MINIMUM OF 3-INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR A CERTIFIED COMPOST BLANKET HAS BEEN INSTALLED, OR;
 - c) EROSION CONTROL BLANKETS HAVE BEEN INSTALLED.

BLANKET AREAS TO BE PAVED:

2. **TEMPORARY STABILIZATION:**

ALL AREAS OF EXPOSED OR DISTURBED SOIL SHALL BE TEMPORARILY STABILIZED AS SOON AS PRACTICABLE BUT NO LATER THAN 3 DAYS FOLLOWING FINAL GRADING. DISTURBANCE, UNLESS A SHORTER TIME IS SPECIFIED BY LOCAL AUTHORITIES, THE CONSTRUCTION SEQUENCE APPROVED AS PART OF THE ISSUED PERMIT OR AN INDEPENDENT MONITOR.

PERMANENT STABILIZATION:

3. **MAINTENANCE OF DISTURBANCE:**

ALL AREAS OF EXPOSED OR DISTURBED SOIL SHALL BE PERMANENTLY STABILIZED AS SOON AS PRACTICABLE BUT NO LATER THAN 3 DAYS FOLLOWING FINAL GRADING. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, NO MORE THAN 5 ACRES SHALL BE DISTURBED (NOT STABILIZED) AT ANY TIME. ONLY DISTURB, CLEAR, OR GRADE AREAS NECESSARY FOR CONSTRUCTION.

4. **FLAG OR OTHERWISE DELINEATE AREAS NOT TO BE DISTURBED.**

5. **EXCLUDE VEHICLES AND CONSTRUCTION EQUIPMENT FROM THESE AREAS TO PRESERVE NATURAL VEGETATION.**

6. **ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED GRADING AND DRAINAGE PLAN DEPICTED ON SHEET C-2.**

7. **ALL EROSION AND SEDIMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN DEPICTED ON SHEET C-2.**

8. **TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION AND TO BE STOCKPILED IN THE AMOUNT NECESSARY TO COMPLETE FINISHED GRADING AND BE PROTECTED FROM EROSION.**

9. **STOCKPILE BORROW AREAS AND SPOILS SHALL BE STABILIZED AS DESCRIBED UNDER "SOIL STOCKPILE PRACTICES".**

10. **SLOPES SHALL NOT BE CREATED SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTIES WITHOUT ADEQUATE PROTECTION AGAINST SEDIMENTATION, EROSION, SLURRING, SETTLEMENT, SUBSIDENCE OR OTHER RELATED DAMAGE.**

11. **AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND/OR OTHER OBJECTIONABLE MATERIALS.**

12. **AREAS SHALL BE GRADED TO A MINIMUM DEPTH OF 1-INCH PRIOR TO PLACEMENT OF TOPSOIL. TOPSOIL SHALL BE PLACED WITHOUT SIGNIFICANT COMPACTION TO PROVIDE A LOOSE BEDDING FOR PLACEMENT OF SEED.**

13. **IF INSTALLED EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND AREAS SHALL BE RESEEDING, WITH OTHER TEMPORARY MEASURES (I.E. MULCH, ETC.) USED TO PROVIDE EROSION PROTECTION DURING THE PERIOD OF VEGETATION ESTABLISHMENT.**

14. **CONDUITS AND OTHER FACILITIES, SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.**

15. **IN GENERAL, FILLS SHALL BE COMPACTED IN LAYERS RANGING FROM 6 TO 24 INCHES IN THICKNESS. THE CONTRACTOR SHALL REVIEW THE PROJECT GEOTECHNICAL REPORT AND/OR THE "PROJECT SPECIFIC PHASING NOTES" FOR SPECIFIC GUIDANCE.**

16. **ANY AND ALL FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCKS (LARGER THAN 3/4 THE DEPTH OF THE LIFT BEING INSTALLED), LOGS, STUMPS, BUILDING DEBRIS, FROZEN MATERIAL AND OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.**

17. **FROZEN MATERIAL OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE (I.E. CLAY, SILT) MATERIALS ARE SUSCEPTIBLE TO ACCELERATED SETTLEMENT AND POTENTIAL ACCELERATED EROSION. WORK IN AREAS OF THESE MATERIALS SHALL BE PERFORMED UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER.**

18. **THE OUTER FACE OF THE FILL SLOPE SHALL BE ALLOWED TO STAY LOOSE, NOT ROLLED OR COMPACTED, OR BLADE SMOOTHED. A BULLDOZER MAY RUN UP AND DOWN THE FILL SLOPE SO THE DOZER TRACKS (CLEAN TRACKS) CREATE GROOVES PERPENDICULAR TO THE SLOPE. IF THE SOIL IS NOT TOO MOIST, EXCESSIVE COMPACTION WILL NOT OCCUR. SEE "SURFACE ROUGHENING" IN THE NHSM, VOL. 3.**

19. **ROUGHEN THE SURFACE OF ALL SLOPES DURING THE CONSTRUCTION OPERATION TO RETAIN WATER, INCREASE INFILTRATION AND FACILITATE VEGETATION ESTABLISHMENT.**

20. **USE SLOPE BREAKS, SUCH AS DIVERSIONS, BENCHES, OR CONTOUR FURROWS AS APPROPRIATE TO REDUCE THE LENGTH OF CUT-FILL SLOPES TO LIMIT SHEET AND FILL EROSION AND PREVENT GULLY EROSION. ALL BENCHES SHALL BE KEPT FREE OF SEDIMENT DURING ALL PHASES OF CONSTRUCTION.**

21. **SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE EVALUATED BY A PROFESSIONAL ENGINEER (PREFERABLY THE DESIGN ENGINEER) TO DETERMINE IF THE PROPOSED DESIGN SHALL BE REVISED TO PROPERLY MANAGE THE CONDITION.**

22. **STABILIZE ALL GRADED AREAS (AS ABOVE) WITH VEGETATION, CRUSHED STONE, COMPOST BLANKET, OR OTHER GROUND COVER AS SOON AS GRADING IS COMPLETE OR IF WORK IS INTERRUPTED FOR 21 WORKING DAYS OR MORE. USE MULCH OR OTHER APPROVED METHODS TO STABILIZE AREAS TEMPORARILY WHERE FINAL GRADING MUST BE DELAYED.**

23. **ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.**

24. **THE PROJECT SHALL BE CONSTRUCTED TO MEET ALL REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER ARC 3800 RELATIVE TO INVASIVE SPECIES.**

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PROJECT SPECIFIC CONSTRUCTION PHASING:

1. REFER TO THE "GENERAL CONSTRUCTION PHASING" NOTES PRIOR TO COMMENCING CONSTRUCTION IN ACCORDANCE WITH THE FOLLOWING PHASING. THE "GENERAL CONSTRUCTION PHASING" NOTES APPLY TO THE OVERALL CONSTRUCTION AND SHALL BE ADHERED TO.
2. INSTALL ALL TEMPORARY SEDIMENT CONTROL BARRIERS (I.E. SILT FENCE, EROSION CONTROL MIX BERM, STONE CHECK DAMS, ETC.) AROUND THE OUTER PERIMETER OF THE CONSTRUCTION SITE AS DEPICTED ON SHEET C-2 PRIOR TO EARTH MOVING OPERATIONS.
3. ALL RUNOFF MUST BE DIRECTED TO TEMPORARY PRACTICES UNTIL STORMWATER BMPs ARE STABILIZED.
4. INSTALL ORANGE SNOW FENCE AROUND THE PERIMETER OF THE INFILTRATION BASINS AND THE FENCE SHALL REMAIN IN PLACE UNTIL CONSTRUCTION OF THE BASINS HAS STARTED. STUMPS, BRUSH AND OTHER ORGANIC WASTE SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.
5. INSTALL A TEMPORARY CONSTRUCTION EXIT AT THE LOCATION OF THE PROPOSED SHAW DRIVE IMPROVEMENTS. MAINTAIN

