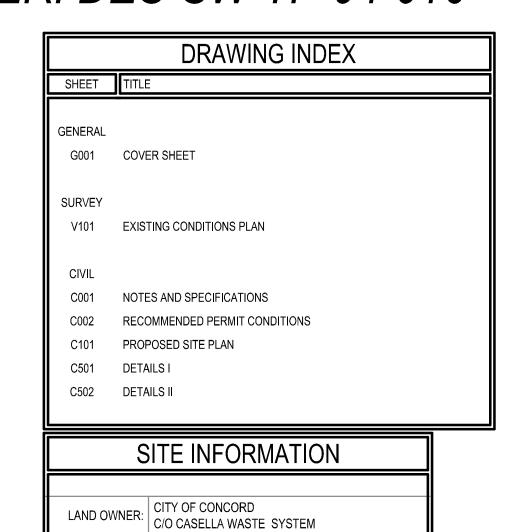
CITY OF CONCORD LANDFILL SOLAR PROJECT

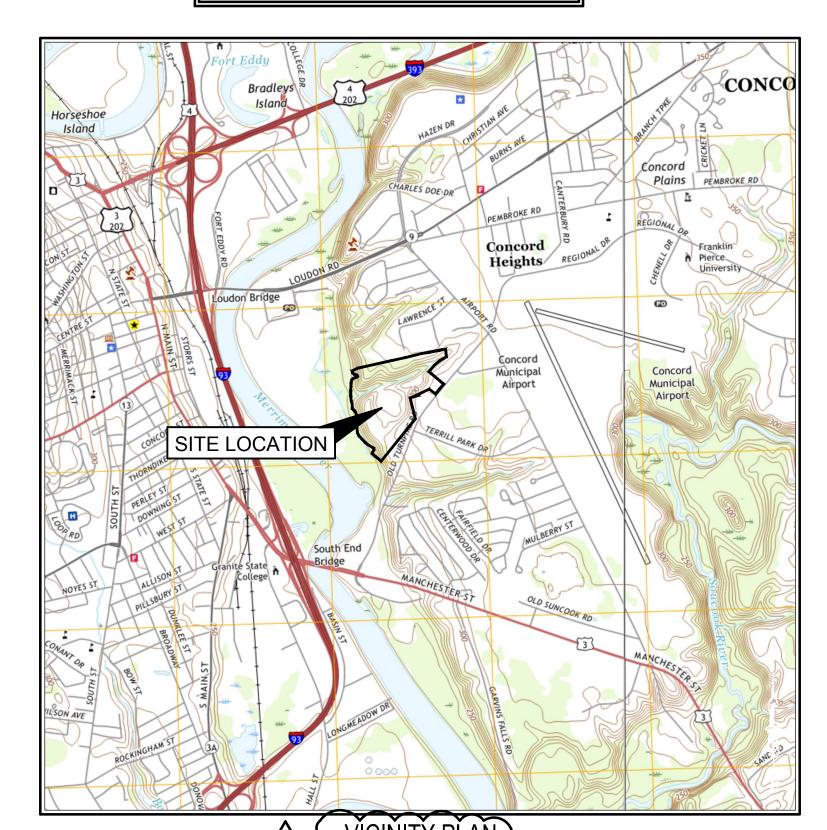
PROPOSED 5 MW(AC) SOLAR PHOTOVOLTAIC (PV) PROJECT 77 OLD TURNPIKE ROAD, CONCORD, NEW HAMPSHIRE FACILITY: CONCORD MUNICIPAL LANDFILL

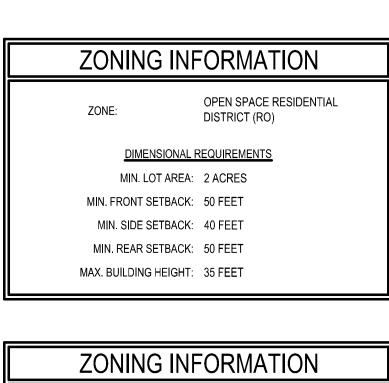
PERMIT NUMBER: DES-SW-TP-94-016

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INDUSTRIAL DISTRICT (IN) MIN. LOT AREA: 40,000 SQUARE FEET MIN. FRONT SETBACK: 50 FEET MIN. SIDE SETBACK: 25 FEET MIN. REAR SETBACK: 30 FEET MAX, BUILDING COVERAGE OF AREA: 45 FEET



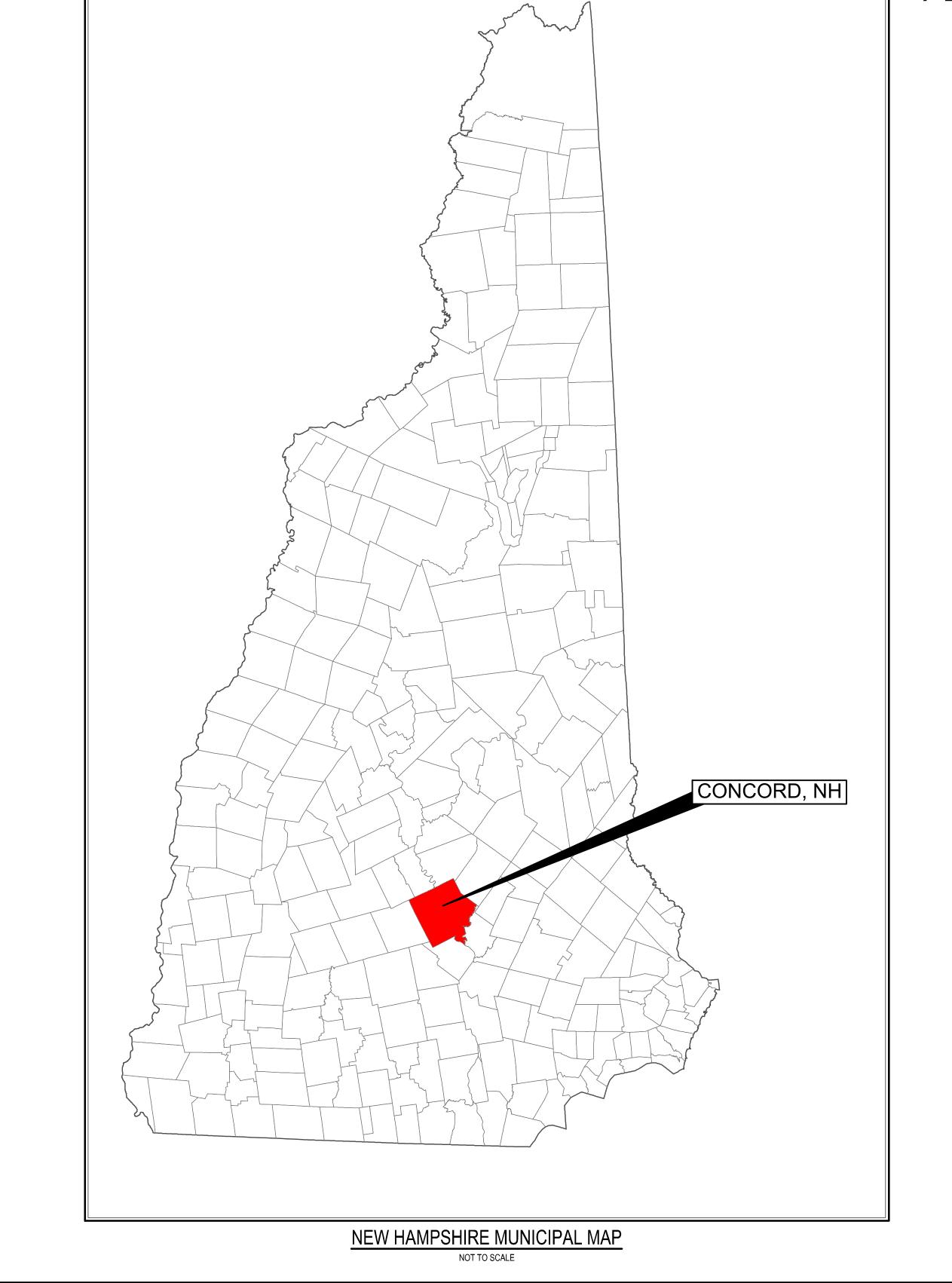


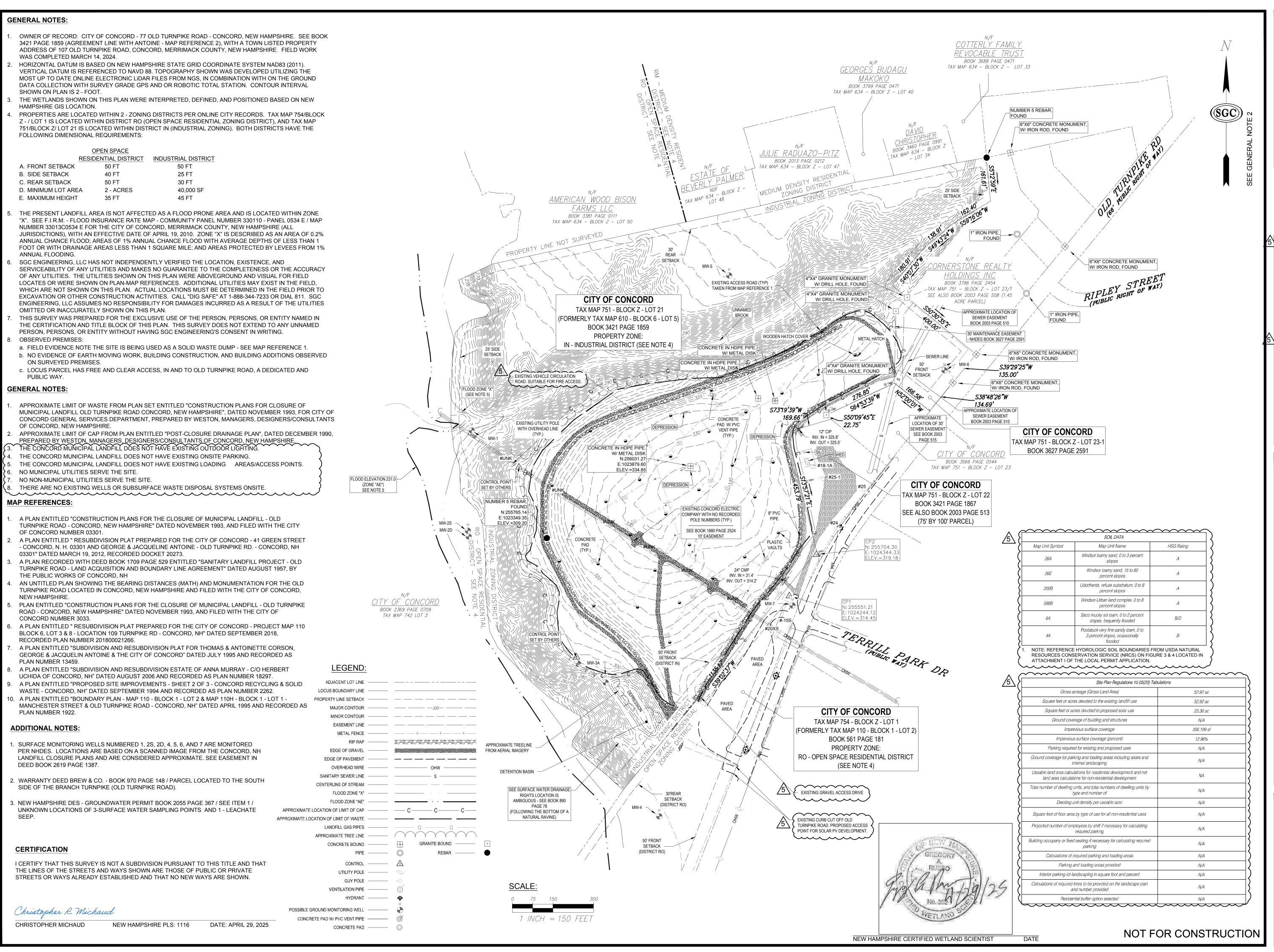
			Seal:	
5	REVISED PER CITY COMMENTS	04/28/2025		
4	NHFG RECOMMENDED PERMIT CONDITIONS 03/14/2025			
3	NO CHANGES THIS SHEET	02/11/2025		
2	ISSUED FOR PERMITTING - TYPE 1B	01/30/2025		
1	NO CHANGES THIS SHEET 01/03/2025			
0	ISSUED FOR PERMITTING - AOT	10/24/2024		
REV#	DESCRIPTION	DATE		

Know what's below. Call before you dig.

SITE AERIAL MAP

NOT FOR CONSTRUCTION PERMITTING 10/24/2024 G001 **COVER SHEET**





Concord Landfill
Solar PV Development

Facility:
Concord Municipal Landfill

Permit Number: DES-SW-TP-94-016

77 Old Turnpike Road Concord, NH

Weston & Sampson

Weston & Sampson Engineers, Inc. 150 Dow St, Tower 4, Suite 350 Manchester, NH 03101 603.263.9296 800.SAMPSON

603.263.9296 800.SAMPSON www.westonandsampson.com

City of Concord
41 Green Street
Concord, NH 03301

roject Developer / Co-Applicant:

KEARSARGE

ENERGY

Kearsarge Old Turnpike Road LLC

1380 Soldiers Field Road

Suita 3000

1380 Soldiers Field Road
Suite 3900
Boston, MA 02135
Tel: (617) 393-4222
www.kearsargeenergy.com

5 04/28/2025 REVISED PER CITY COMMENTS
4 03/14/2025 NO CHANGES THIS SHEET
3 02/11/2025 NO CHANGES THIS SHEET
2 01/30/2025 ISSUED FOR PERMITTING - TYPE 1
1 01/03/2025 NO CHANGES THIS SHEET
0 10/24/2024 ISSUED FOR PERMITTING - AOT
No. Date Description

Seal:

No. CHRISTOPHER
R. MICHAUD

legued For:

W&S File No.:

Orawing Title:

PERMITTING

 Scale:

 Date:
 10/24/2024

 Drawn By:
 DED

 Reviewed By:
 MRC

 Approved By:
 RJB

 W&S Project No.:
 ENG24-0294

Kearsarge

Concord, NH

EXISTING CONDITIONS PLAN

Sheet Number:

V101

CONSTRUCTION NOTES

- SATURDAYS, SUNDAYS, AND HOLIDAYS EXCLUDED, PRIOR TO EXCAVATING AT ANY LOCATION. A COPY OF THE DIG SAFE PROJECT REFERENCE NUMBER(S) SHALL BE GIVEN TO THE OWNER PRIOR TO EXCAVATION.
- 2. LOCATIONS OF EXISTING PIPES, CONDUITS, UTILITIES, FOUNDATIONS AND OTHER UNDERGROUND OBJECTS ARE NOT WARRANTED TO BE CORRECT AND THE CONTRACTOR SHALL HAVE NO CLAIM ON THAT ACCOUNT SHOULD THEY BE OTHER THAN SHOWN.
- 3. STONE WALLS, FENCES, CURBS, ETC., SHALL BE REMOVED AND REPLACED AS NECESSARY TO PERFORM THE WORK. UNLESS OTHERWISE INDICATED, ALL SUCH WORK SHALL BE INCIDENTAL TO CONSTRUCTION OF THE PROJECT.
- 4. ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND THE PROJECT AREA SHALL BE RESTORED AT NO ADDITIONAL COST TO THE OWNER.
- 5. HORIZONTAL CONTROLS REFER TO NEW HAMPSHIRE STATE PLANE COORDINATES (1983) NORTH AMERICAN DATUM).
- 6. ELEVATIONS REFER TO THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD 88).
- 7. NOTHING SHOWN OR OMITTED FROM THE DOCUMENTS PROVIDED SHALL RELIEVE THE CONTRACTOR FROM FULL COMPLIANCE WITH ALL APPLICABLE CODES, REGULATIONS, BYLAWS, AND ORDINANCES.

FROST PROTECTION AND SNOW REMOVAL:

- 1. THE CONTRACTOR SHALL, AT ITS OWN EXPENSE, KEEP EARTHWORK OPERATIONS CLEAR AND FREE OF ACCUMULATIONS OF SNOW AS REQUIRED TO CARRY OUT THE
- 2. THE CONTRACTOR SHALL PROTECT THE SUBGRADE BENEATH NEW STRUCTURES AND
- PIPES FROM FROST PENETRATION WHEN FREEZING TEMPERATURES ARE EXPECTED. ROAD SALT SHOULD NOT BE USED ON ACCESS ROADS OR ROADS WITHIN THE SOLAR FACILITY TO MINIMIZE NEGATIVE IMPACTS TO WILDLIFE HABITAT.

MATERIAL SPECIFICATIONS:

- GENERAL: INSTALLATION OF GEOTEXTILE FABRICS SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND SPECIFIC LAYOUT PLANS AND DETAILS REVIEWED BY ENGINEER.
- WOVEN GEOTEXTILE: THE WOVEN GEOTEXTILE SHALL BE MIRAFI HP 770 FABRIC, BY MIRAFI INC., OR APPROVED EQUIVALENT. THE WOVEN GEOTEXTILE SHALL BE COMPOSED OF POLYPROPYLENE STABILIZED WITH CARBON BLACK TO RESIST ULTRAVIOLET DEGRADATION AND BE RESISTANT TO BIOLOGICAL AND CHEMICAL DEGRADATION DUE TO ALL NATURALLY OCCURRING ORGANISMS OR REAGENTS NORMALLY
- ENCOUNTERED IN NATURAL SOIL ENVIRONMENTS. NON-WOVEN GEOTEXTILE:
- THE NON-WOVEN GEOTEXTILE SHALL BE MIRAFI 140N FABRIC, BY MIRAFI INC., OR APPROVED EQUIVALENT. THE NON-WOVEN GEOTEXTILE SHALL BE COMPOSED OF POLYPROPYLENE FIBERS AND SHALL BE INERT TO BIOLOGICAL DEGRADATION AND RESISTANT TO NATURALLY ENCOUNTERED CHEMICALS, ALKALIS, AND ACIDS.

EARTHWORK MATERIALS CRUSHED STONE FINE

CRUSHED STONE SHALL SATISFY THE REQUIREMENTS LISTED IN NHDOT SPECIFICATION SECTION 304.4, ACCEPTABLE SAND MAY BE BLENDED AS NECESSARY TO OBTAIN THE PROPER GRADATION FOR THE FINE AGGREGATE PORTION.

2 INCH 100 1 1/2 INCH 85-100 3/4 INCH 45-75 NO.4 10-45

NO. 200* *IN TOTAL SAMPLE

AS AN ALTERNATIVE, RCA OR ASPHALT MILLINGS MAY BE USED PROVIDED THEY MEET THE GRADATION REQUIREMENTS ABOVE.

0-5

BACKFILL MATERIALS

ORDINARY BORROW SHALL BE GRANULAR, WELL GRADED FRIABLE SOIL; FREE OF DEBRIS, RUBBISH, ICE, SNOW, TREE STUMPS, ROOTS, CLAY AND ORGANIC MATTER; WITH 30 PERCENT OR LESS PASSING THE NO. 200 SIEVE; NO STONE GREATER THAN TWO-THIRD (2/3) LOOSE LIFT THICKNESS, OR SIX INCHES, WHICHEVER IS SMALLER.

BACKFILL PLACEMENT AND COMPACTION:

- 1. PRIOR TO BACKFILLING. THE CONTRACTOR SHALL COMPACT THE EXPOSED NATURAL SUBGRADE TO THE DENSITIES AS SPECIFIED HEREIN
- 2. AFTER APPROVAL OF SUBGRADE BY THE ENGINEER, THE CONTRACTOR SHALL BACKFILL
- AREAS TO REQUIRED CONTOURS AND ELEVATIONS WITH SPECIFIED MATERIALS. 3. THE CONTRACTOR SHALL PLACE AND COMPACT MATERIALS IN CONTINUOUS HORIZONTAL LAYERS UNTIL FIRM. LIFT THICKNESS SHALL NOT EXCEED THE FOLLOWING
- THICKNESS: 3.1. GRAVEL ACCESS ROADS - 6 INCHES

COST TO THE OWNER.

- BALLAST BLOCKS (AS REQUIRED), CONDUIT SUPPORTS, AND EQUIPMENT PADS 6
- INCHES 4. IF THE MATERIAL REMOVED FROM THE EXCAVATION IS SUITABLE FOR BACKFILL WITH THE EXCEPTION THAT IT CONTAINS STONES LARGER THAN PERMITTED, THE CONTRACTOR HAS THE OPTION TO REMOVE THE OVERSIZED STONES AND USE THE MATERIAL FOR BACKFILL OR TO PROVIDE REPLACEMENT BACKFILL AT NO ADDITIONAL
- 4. ALL MATERIAL AND BALLAST BLOCK PLACEMENT ON THE SURFACE OF THE LANDFILL (BEYOND THE ACCESS ROAD) SHALL BE PERFORMED USING LOW GROUND PRESSURE (<10 PSI) EQUIPMENT.

CLEARING NOTES (INTERCONNECTION AREA ONLY):

- INSTALL EROSION AND SEDIMENT CONTROLS PRIOR TO CLEARING.
- 2. CONTRACTOR SHALL LIMIT THE AREA OF LAND WHICH IS EXPOSED AND FREE FROM VEGETATION DURING CONSTRUCTION. IN AREAS WHERE THE PERIOD OF EXPOSURE WILL BE GREATER THIRTY (30) DAYS. MULCHING, EROSION CONTROL MATS, TEMPORARY SEEDING, OR OTHER PROTECTIVE MEASURES SHALL BE PROVIDED WITHIN 2 WEEKS OF INITIAL SOIL DISTURBANCE. THE CONTRACTOR SHALL TAKE ACCOUNT OF THE CONDITIONS OF THE SOIL WHERE EROSION CONTROL SEEDING WILL TAKE PLACE TO INSURE THAT MATERIALS USED FOR RE-VEGETATION ARE ADAPTIVE TO THE SEDIMENT CONTROL.

SOIL STABILIZATION NOTES:

- 1. THE CONTRACTOR SHALL CALL DIG SAFE AT 811 OR 1-888-DIG-SAFE AT LEAST 72 HOURS, 51. THE MAXIMUM ALLOWABLE SLOPE IS 3:1 ALL 3:1 SLOPES SHALL BE STABILIZED WITH A SATURDAYS SLINDAYS AND HOLIDAYS EVOLUBED BRIGG TO THE WAY. TEMPORARY EROSION CONTROL BLANKET (SEE SHEET C501).

 2. ALL DISTURBED AREAS SHALL HAVE A MINIMUM OF 4-INCHES OF LOAM AND SEED AND
 - STABILIZED WITH GRASS COVER. 3. IF SUFFICIENT STABILIZATION CANNOT BE ACCOMPLISHED AFTER SEEDING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDING THE NECESSARY SOIL AMENDMENTS AND/OR LOAM UNTIL STABILIZATION IS ACHIEVED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
 - THE SMALLEST PRACTICABLE AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL DISTURBED AREA EXCEED 5 ACRES AT ANY ONE TIME BEFORE
 - DISTURBED AREAS ARE STABILIZED. 5. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED
 - AFTER SOIL DISTURBANCE: 5.1. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED.
 - 5.2. A MINIMUM OF 85 PERCENT VEGETATED GROWTH HAS BEEN ESTABLISHED. 5.3. A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP
 - HAS BEEN INSTALLED. 5.4. OR, EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED
 - UNSTABILIZED AREAS SHALL BE TEMPORARILY STABILIZED WITHIN 72 HOURS OF FINAL GRADING, OR PRIOR TO A 0.25" STORM OCCURRING AFTER THE DISTURBANCE, WHICHEVER OCCURS SOONER.
 - TEMPORARY STABILIZATION MEASURES MUST REMAIN IN PLACE THROUGHOUT CONSTRUCTION AND BE MAINTAINED AS NECESSARY TO MEET THE REQUIREMENTS OF ENV-WQ 1506.01 UNTIL FINAL SEEDING IS PLACED.
 - WHEN EARTH DISTURBANCE WILL OCCUR WITHIN 50 FEET OF A SURFACE WATER OF THE STATE, AND WETLANDS AS DEFINED IN RSA 482-A, A DOUBLE ROW OF PERIMETER CONTROLS MUST BE INSTALLED ALONG THE LIMITS OF THE EARTH DISTURBANCE.

TYPICAL SEQUENCE OF CONSTRUCTION:

PRIOR TO THE DEVELOPMENT OF THE SITE, EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS. SITE DEVELOPMENT SCHEDULING SHALL TAKE INTO CONSIDERATION THE GROWING SEASON, SUCH THAT BULK OF THE EARTHWORK IS NOT INITIATED DURING A PERIOD WHEN VEGETATIVE STABILIZATION CANNOT BE ACHIEVED WITHIN 14 DAYS OF COMPLETING THE EARTHWORK IN A GIVEN AREA. A TYPICAL SEQUENCE OF CONSTRUCTION IS:

- PRIOR TO STARTING ANY WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL OBTAIN ALL PERMITS. NOTIFY APPROPRIATE OFFICIALS OF CONSTRUCTION COMMENCEMENT, AND SUBMIT CONSTRUCTION TIMETABLE.
- ON-SITE CONSTRUCTION SHALL START WITH INSTALLATION OF ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS SHOWN ON SHEET C101. THIS INCLUDES COMPOST SOCKS, CONSTRUCTION ENTRANCE/EXIT, AND OTHER MEASURES NOTED ON THE PLAN. NO WORK SHALL TAKE PLACE UNTIL THE ENGINEER HAS INSPECTED AND APPROVED INSTALLED MEASURES. NO EROSION/SEDIMENTATION CONTROL DEVICE SHALL PENETRATE THE EXISTING LANDFILL COVER MATERIALS WITHIN THE LIMITS OF THE CAP.
- STOCKPILED TOPSOIL SHALL BE SEEDED AND MULCHED WHEN IT IS TO BE STORED MORE THAN 30 DAYS FROM TIME OF STOCKPILING. STOCKPILES SHALL NOT BE PLACED WITHIN THE 100' WETLAND BUFFER ZONE. SEE SHEET C501 FOR A TYPICAL TEMPORARY STOCKPILE DETAIL.
- CONSTRUCT GRAVEL ACCESS ROADS. INSTALL ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED TO PREVENT EROSION OF GRAVEL SURFACE.
- 5. PROCEED WITH SOLAR PHOTOVOLTAIC (PV) SYSTEM INSTALLATION/CONSTRUCTION WORK
- 6. REPAIR ALL DISTURBED AREAS, AND REAPPLY LOAM AND SEED WHERE NECESSARY. 7. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL AFTER THE SITE IS STABILIZED IN ACCORDANCE WITH THE SWPPP AND FINAL

DUST CONTROL

ACCEPTANCE IS GIVEN BY THE ENGINEER.

- 1. CONSTRUCTION ACTIVITIES SHALL BE SCHEDULED TO MINIMIZE AREAS OF DISTURBED SOIL EXPOSED AT ONE TIME.
- 2. DUST SHALL BE CONTROLLED ON CONSTRUCTION ROUTES AND OTHER DISTURBED AREAS SUBJECT TO SURFACE DUST MOVEMENT AND DUST BLOWING.
- MAINTAIN DUST CONTROL MEASURES PROPERLY THROUGH DRY WEATHER PERIODS UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
- 4. DUST CONTROL METHODS SHALL INCLUDE VEGETATIVE COVER, MULCH (INCLUDING GRAVEL MULCH), WATER SPRINKLING, STONE, AND/OR BARRIERS.

GENERAL MAINTENANCE PLAN (DURING CONSTRUCTION):

- 1. ALL EROSION AND SEDIMENTATION CONTROL PRACTICES SHALL BE INSPECTED WEEKLY AND AFTER EVERY HALF-INCH OF RAINFALL IN ACCORDANCE WITH THE ALTERATION OF TERRAIN PERMIT INSPECTION FREQUENCY.
- 2. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM BEHIND SEDIMENT BARRIERS WHEN ACCUMULATION HAS BEEN HALF THE DEPTH OF THE WATTLE, OR ADVERSELY AFFECTED IT'S FUNCTION. SEDIMENT BARRIERS SHALL BE REPAIRED BY REMOVING SILT AND SEDIMENTS AND THEN TAMPING LOOSE SOIL ALONG BASE, REPLACING DAMAGED OR WEAKENED SAND BAGS, OR AS NECESSARY TO MAINTAIN A BARRIER
- 3. ALL DISTURBED AREAS SHALL BE STABILIZED PER THESE SPECIFICATIONS TO MAINTAIN VIGOROUS, DENSE VEGETATION. REPAIR ANY ERODED SLOPES, REAPPLY TOPSOIL, RESEED AND STABILIZE REPAIR AREA AS REQUIRED FOR PERMANENT OR TEMPORARY MEANS. REPAIR SOIL AREAS DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT.
- 4. IMMEDIATELY REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION EQUIPMENT, MAINTENANCE OR OTHER ACTIVITY TO ANY EROSION AND SEDIMENTATION CONTROL MEASURE, OR BEST MANAGEMENT PRACTICE (BMP) OR DEVICE.
- 5. THE PRIME CONTRACTOR IS RESPONSIBLE FOR THE PERFORMANCE AND COMPLIANCE OF ITS SUBCONTRACTOR'S ACTIVITIES RELATING TO THE SWPPP. THEY SHALL MAKE FREQUENT INSPECTIONS OF THEIR WORK AND COORDINATE APPROPRIATE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL AND WATER QUALITY DEVICES.
- EMPLOY POLLUTION PREVENTION MEASURES TO CONTROL LITTER, CONSTRUCTION CHEMICALS, SEDIMENT, AND CONSTRUCTION DEBRIS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING: SALVAGE AND REUSE OF MATERIALS, MINIMIZING PACKAGING WASTE, RECYCLING, PROPER DISPOSAL AT FREQUENT INTERVALS IN ACCORDANCE WITH PREVAILING LAWS, ONSITE INSTRUCTION REGARDING APPROPRIATE SEPARATION/HANDLING/RECYCLING, PERIODIC DEBRIS REMOVAL AT DRAINAGE STRUCTURES (GRATES AND SUMPS)/SEDIMENT TRAPS/ FOREBAY AND OTHER BMPS, PROPER MAINTENANCE OF SEDIMENT/ EROSION CONTROL SYSTEMS, ROUTINE AND EVENT RELATED INSPECTIONS OF DRAINAGE AND BMP SYSTEMS PER PERMIT REQUIREMENTS, PROVIDE APPROPRIATE SANITARY FACILITIES FOR ONSITE PERSONNEL, PICK UP TRASH AND DEBRIS FREQUENTLY AND USE WATER MIST, CALCIUM CHLORIDE, OR OTHER LEGAL MEANS TO LIMIT THE SPREAD OF DUST AND SOIL PARTICLES.

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

- THE FOLLOWING NOTES ARE PROVIDED AS A SUMMARY REFERENCE FOR THE CONTRACTOR ONLY. THE REQUIREMENTS IN THE FULL SWPPP FOR THE PROJECT SHALL BE FOLLOWED BY THE CONTRACTOR. IN THE EVENT OF A CONFLICT BETWEEN THE DRAWINGS AND THE SWPPP, THE ENGINEER SHALL DETERMINE THE CORRECT REQUIREMENTS.
- ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE PERFORMED IN ACCORDANCE WITH THE NHDOT GUIDELINES FOR TEMPORARY EROSION AND SEDIMENT CONTROL AND STORMWATER MANAGEMENT. THE CONTRACTOR SHALL OWN AND MAINTAIN A COPY OF THE GUIDELINES ON-SITE DURING CONSTRUCTION.
- NO EROSION AND SEDIMENTATION CONTROL DEVICE SHALL PENETRATE THE EXISTING LANDFILL COVER MATERIALS WITHIN THE LIMITS OF WASTE.
- ALL DISTURBED AREAS SHALL BE KEPT TO A MINIMUM. FINAL GRADING AND RESTORATION SHALL BE ACCOMPLISHED AS SOON AS PRACTICAL. EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE INSTALLED PRIOR TO SITE WORK.
- ALL CONTROL STRUCTURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND REMOVED WHEN STABILIZATION HAS BEEN ATTAINED. IF THE PROPOSED CONTROL MEASURES ARE NOT SATISFACTORY TO THE ENGINEER, ADDITIONAL CONTROL MEASURES SHALL BE TAKEN
- ALL RUNOFF FROM THE DISTURBED AREA SHALL BE CONTROLLED AND FILTERED. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS. A NPDES CONSTRUCTION GENERAL PERMIT WILL BE REQUIRED FOR THE PROPOSED PROJECT. THE
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION AND COMPLIANCE WITH THE APPROVED NPDES NOTICE OF INTENT (NOI) AND SWPPP. THE CONTRACTOR MUST OBTAIN COPIES OF ALL APPLICABLE PERMITS PRIOR TO THE START OF WORK. 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF EROSION AND SEDIMENTATION
- CONTROL MEASURES. THIS RESPONSIBILITY INCLUDES THE ACQUISITION OF MATERIALS, INSTALLATION, AND MAINTENANCE OF EROSION AND SEDIMENTATION STRUCTURES, THE COMMUNICATION AND DETAILED EXPLANATION TO ALL PEOPLE INVOLVED IN THE SITE WORK OF THE REQUIREMENTS AND OBJECTIVE OF THE EROSION AND SEDIMENTATION CONTROL MEASURES. 11. TWO (2) WEEKS PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL PROVIDE THE NAME AND
- PHONE NUMBER OF THE INDIVIDUAL RESPONSIBLE FOR IMPLEMENTATION OF THE EROSION & SEDIMENTATION CONTROL PLAN. 12. THE ENGINEER SHALL BE NOTIFIED OF ANY PROPOSED ALTERATION TO THE EROSION AND

SEDIMENTATION CONTROL PLAN, PRIOR TO ALTERING, IN ORDER TO ENSURE THE FEASIBILITY OF THE ADDITION, SUBTRACTION, OR CHANGE IN THE PLAN.

SEEDING

- THE SEEDING OF THE SITE WILL BE DONE IN A MANNER AND WITH SPECIES THAT MEETS THE REQUIREMENTS AND INTENT OF THE INVASIVE SPECIES REGULATIONS FOUND IN NEW
- HAMPSHIRE REV. STAT. 430:53 AND CHAPTER AGR 3800. 2. ALL FILL SLOPES SHALL BE SEEDED AND LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- ALL PROPOSED VEGETATED AREAS THAT DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, 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 ACRES, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAT OR SPRING MELT EVENTS.
- 4. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.

SHADE SEEDING MIX (WITHIN PV DEVELOPMENT AREAS):

ALL DISTURBED AREAS AND EXISTING AREAS WITH LESS THAN 85% VEGETATIVE COVER WITHIN THE PHOTOVOLTAIC DEVELOPMENT AREA SHALL BE MULCHED AND/OR SEEDED IN ACCORDANCE WITH THE FOLLOWING CONSTRUCTION METHODS:

- 1. THE LIMING, FERTILIZING, AND SEEDING TO BE ACCOMPLISHED UNDER THIS SECTION SHALL BE DONE DURING A PERIOD OF TIME TO BE APPROVED BY THE ENGINEER OR LANDSCAPE ARCHITECT. CONTRACTOR SHALL NOTIFY THE ENGINEER OR ARCHITECT 30 DAYS PRIOR TO THE TIME THAT HE/SHE INTENDS TO BEGIN THIS WORK.
- 2. SEEDING SHOULD NOT BE COMPLETED USING HYDROSEEDING METHODS DUE TO THE POSSIBLE NEGATIVE IMPACTS TO WILDLIFE AND WILDLIFE HABITAT.
- AFTER ALL SURFACES TO BE SEEDED HAVE BEEN BROUGHT TO FINISHED GRADE, THE CONTRACTOR SHALL FURNISH AND APPLY LIMESTONE AS HEREIN SPECIFIED. 4. LIMESTONE SHALL BE APPLIED AT A RATE UP TO A MAXIMUM OF 100 POUNDS PER 1000
- SQUARE FEET, OR AS DETERMINED BY THE RESULTS OF LABORATORY TESTS CONDUCTED BY AN APPROVED TESTING LABORATORY. 4.1. IT IS RECOMMENDED THAT THE CONTRACTOR COLLECT TOPSOIL SAMPLES FOR LABORATORY ANALYSIS. A MINIMUM OF 4 SUB-SAMPLES, TAKEN TO THE PROPOSED
- DEPTH OF TOPSOIL, SHALL BE TAKEN PER ACRE OF AREA TO BE LIMED. THESE SAMPLES SHALL BE PLACED IN A SUITABLE CONTAINER OBTAINED FROM THE TESTING LABORATORY AND MARKED SO AS TO CLEARLY INDICATE THE ACRE AREA FROM WHICH THEY WERE TAKEN. THE SAMPLE SHALL BE DELIVERED BY THE CONTRACTOR TO THE TESTING LABORATORY
- FOR CHEMICAL AND MECHANICAL ANALYSIS. THE TESTING LABORATORY SHALL BE DIRECTED BY THE CONTRACTOR TO FURNISH TEST RESULTS AND RECOMMENDATIONS FOR LIMING AND FERTILIZING TO THE ENGINEER OR ARCHITECT FOR APPROVAL
- LIME SHALL BE MECHANICALLY SPREAD IN TWO APPLICATIONS UP TO 50 POUNDS PER 1000 SQUARE FEET, ON ALL AREAS. THE LIME SHALL BE DISTRIBUTED UNIFORMLY.
- FERTILIZER SHALL BE MECHANICALLY SPREAD SO AS TO OBTAIN UP TO A MINIMUM SOWN FERTILIZER COVERAGE YIELD OF 16 POUNDS PER 1000 SQUARE FEET. THE ACTUAL AMOUNTS AND TYPE OF FERTILIZER APPLIED SHALL BE AS DETERMINED BY THE RESULTS OF LABORATORY TESTS CONDUCTED ABOVE. AT SLOPES EXCEEDING 25% GRADE, THE FERTILIZER SHALL BE APPLIED MANUALLY IN AN APPROVED MANNER.
- SEED SHALL BE INCORPORATED WITH THE MULCHING MATERIAL SO AS TO OBTAIN A MINIMUM SOWN COVERAGE OF 200 POUNDS OF THE SPECIFIED MIX PER ACRE. SEED SUBSTITUTIONS MAY REQUIRE RATE ADJUSTMENTS AS RECOMMENDED BY THE SEED SUPPLIERS, IF APPROVED BY THE ENGINEER OR LANDSCAPE ARCHITECT.
- AT AREAS TO BE SEEDED, CONTRACTOR SHALL REMOVE AND APPROPRIATELY DISPOSE OF ALL STONES OVER 2 INCHES IN SIZE OR OTHER UNSUITABLE MATERIAL OFF SITE. AFTER THE SURFACE IS PREPARED FOR SEEDING AND APPROVED BY THE ENGINEER OR
- LANDSCAPE ARCHITECT, THE CONTRACTOR SHALL SEED THE AREA INDICATED, AS SPECIFIED 10. THE MULCHING MATERIAL SHALL BE USED AT THE RATE OF 1000 POUNDS PER ACRE ON FLAT
- SURFACES AND 1400 POUNDS PER ACRE ON SLOPES EXCEEDING FOUR PERCENT. 11. SEEDING EQUIPMENT SPECIFICATIONS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO

SITE ENTRY TO ASSESS GROUND PRESSURE.

WILDLIFE PROTECTION:

- 1. 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: NHB24-2209, CONCORD LANDFILL SOLAR PV DEVELOPMENT, WILDLIFE SPECIES OBSERVATION.
- 2. 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 AND IMPLEMENTATION OF CORRECTIVE ACTIONS RECOMMENDED BY 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.
- 4. THE NHF&G, INCLUDING ITS EMPLOYEES AND AUTHORIZED AGENTS, SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE PERMIT.
- 5. ALL EROSION CONTROL PRODUCTS AND METHODS TO BE USED ONSITE SHALL MEET UNITED STATES FISH AND WILDLIFE REQUIREMENTS FOR "WILD-LIFE FRIENDLY" EROSION CONTROL PRODUCTS.

SEEDING MATERIALS:

LIME SHALL BE STANDARD COMMERCIAL GROUND LIMESTONE CONTAINING AT LEAST 50% TOTAL OXIDES (CALCIUM OXIDE AND MAGNESIUM OXIDE) AND 50% PERCENT OF THE MATERIAL MUST PASS THROUGH A #100 MESH SIEVE, WITH 98% PASSING A #20 MESH SIEVE.

FERTILIZER SHALL BE COMMERCIAL FERTILIZER 10-6-4 U.F. FERTILIZER MIXTURE CONTAINING AT LEAST 60% OF ORGANIC MATERIAL OR TYPE DETERMINED BY CHEMICAL SOIL ANALYSIS AS TESTED BY AN APPROVED LABORATORY. IT SHALL BE DELIVERED AT THE SITE IN THE ORIGINAL SEALED CONTAINERS WITH CONTENTS CLEARLY DESCRIBED.

THE SEED MIX WITHIN THE LIMITS OF THE FENCE SHALL BE MODIFIED NEW ENGLAND WETLANDS PLANTS, INC. CONSERVATION/WILDLIFE MIX, OR APPROVED EQUAL. SUBMIT SUPPLIER'S SEED BLEND SPECIFICATIONS TO THE ENGINEER OR LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO COMMENCING WITH THE SEEDING OPERATIONS. SEEDING SHALL BE APPLIED AT A RATE OF 6 LB PER 1,000 SQFT.

MODIFIED NEW ENGLAND WETLAND PLANTS, INC. CONSERVATION/WILDLIFE MIX							
BOTANICAL NAME	COMMON NAME	INDICATOR	WEIGHT				
ELYMUS VIRGINICUS	VIRGINIA WILD RYE	FACW-	32%				
SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	FACU	28%				
ANDROPOGON GERARDII	BIG BLUESTEM	FAC	25%				
DESMODIUM CANADENSE	SHOWY TICK TREFOIL	FAC	5%				
ASCLEPIAS SYRIACA	COMMON MILKWEED	FACU-	5%				
EUPATORIUM PERFOLIATUM	BONESET	FACW	2%				
ASTER NOVAE - ANGLIAE	NEW ENGLAND ASTER	FACW-	2%				
SOLIDAGO JUNCEA	EARLY GOLDENROD		1%				

THE CONTRACTOR SHALL SCHEDULE WORK SUCH THAT SEEDING IS PERFORMED DURING THE PLANTING SEASON BETWEEN APRIL AND MAY, OR BETWEEN SEPTEMBER AND OCTOBER. IF THE CONTRACTOR PERFORMS WORK OUTSIDE OF THESE PLANTING WINDOWS, THE CONTRACTOR SHALL APPLY SEED AT A RATE OF 12 LBS PER 1,000 SQFT.

MULCH MATERIAL SHALL BE A MANUFACTURED PRODUCT OF NATURAL WOOD CELLULOSE FIBERS. MATERIAL SHALL BE INTERNATIONAL PAPER COMPANY'S "TURFIBER;" WEYERHAEUSER COMPANY'S "SILVA-FIBER." OR APPROVED EQUAL AND CLEARLY PACKED IN ORIGINAL CONTAINERS. SEALED AND CLEARLY LABELED WITH BRAND NAME AND MANUFACTURER. IT SHALL HAVE A DELIVERED MOISTURE CONTENT OF NOT OVER 12%.

MAINTENANCE OF SEEDED AREAS:

- CONTRACTOR SHALL MAINTAIN THE ENTIRE SEEDED AREAS UNTIL FINAL ACCEPTANCE AT THE COMPLETION OF THE PROJECT OR FOR 90 DAYS, WHICHEVER IS LONGER. MAINTENANCE SHALL INCLUDE WATERING AS SPECIFIED, WEEDING, REMOVAL OF STONES WHICH MAY APPEAR AND REGULAR CUTTINGS OF THE GRASS NO CLOSER THAN 10 DAYS APART. THE FIRST CUTTING SHALL BE ACCOMPLISHED WHEN THE GRASS IS FROM 2-1/2 TO 3 INCHES HIGH. WEEKLY WATERING SHALL PROVIDE THE SEEDED AREAS WITH THE EQUIVALENT OF 1 INCH OF RAINFALL PER WEEK. IF THE SEEDED AREAS ARE WATERED BY NORMAL RAINFALL OR THE NORMAL WATERING IS INADEQUATE DUE TO WEATHER, THE CONTRACTOR MAY AT HIS/HER DISCRETION ELIMINATE OR INCREASE RESPECTIVELY, THE WATERING DURING A GIVEN WEEK. HOWEVER, SUCH ACTION BY THE CONTRACTOR SHALL IN NO WAY WAIVE THE CONTRACTOR'S RESPONSIBILITY FOR THE GROWTH AND HEALTH OF THE GRASS UNTIL FINAL ACCEPTANCE. CONTRACTOR SHALL FURNISH ALL TEMPORARY PIPE AND CONNECTIONS FOR SPRINKLING. CONTRACTOR SHALL FURNISH ALL REQUIRED WATER AT NO EXPENSE TO THE OWNER. GARDEN HOSE AND HAND SPRINKLING SHALL BE PERMITTED ONLY IN SPECIAL INSTANCES BY THE ENGINEER OR LANDSCAPE ARCHITECT.
- 2. ALL BARE SPOTS, WHICH BECOME APPARENT AS THE GRASS GERMINATES, SHALL BE RESEEDED BY THE CONTRACTOR AT HIS/HER OWN EXPENSE AS MANY TIMES AS NECESSARY TO SECURE AN ADEQUATE GROWTH, AND THE ENTIRE AREA SHALL BE MAINTAINED AND CUT UNTIL ALL WORK HAS BEEN COMPLETED AND FINAL ACCEPTANCE HAS OCCURRED. RESEEDING MAY BE ACCOMPLISHED BY MECHANICAL MEANS AS DETERMINED BY THE AREA OF RESEEDING TO BE ACCOMPLISHED.
- CONTRACTOR SHALL TAKE WHATEVER MEASURES ARE NECESSARY TO PROTECT THE GRASS WHILE IT IS GERMINATING. THESE MEASURES SHALL INCLUDE FURNISHING OF WARNING SIGNS, BARRIERS, TEMPORARY FENCE OR ANY OTHER NECESSARY MEASURES OF PROTECTION.
- CONTRACTOR SHALL FURNISH, PROTECT, AND MAINTAIN ALL TEMPORARY BARRIERS UNTIL FINAL ACCEPTANCE OF THE SEEDED AREAS BY THE OWNER AND SHALL REMOVE THEM UPON SUCH FINAL ACCEPTANCE, THE BARRIERS SHALL REMAIN THE PROPERTY OF CONTRACTOR AT ALL TIMES.

SPECIFICATIONS FOR WORK ON LANDFILL:

- THE CONTRACTOR SHALL BE AWARE THAT THE WORK IS LOCATED ON A LANDFILL AND IS SUBJECT TO NEW HAMPSHIRE'S SOLID WASTE MANAGEMENT ACT, RSA 149-M, AND THE NEW HAMPSHIRE SOLID WASTE ADMINISTRATIVE RULES (ENV-SW 100 ET SEQ.).
- THE CONTRACTOR SHALL BE AWARE THAT THE WORK IS TO TAKE PLACE ABOVE A LANDFILL COVER SYSTEM. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO NOT DISRUPT THE LANDFILL COVER PROFILE. TO THE MAXIMUM EXTENT PRACTICABLE, THE CURRENT VEGETATION STAND ON THE LANDFILL SHALL REMAIN UNDISTURBED DURING CONSTRUCTION.
- 3. THE CONTRACTOR SHALL HAVE A HEALTH AND SAFETY PLAN WHILE WORKING ON THE LANDFILL.
- THE CONTRACTOR SHALL MAINTAIN A 10 FOOT PROTECTION RADIUS AROUND ALL LANDFILL GAS VENTS, MONITORING WELLS, AND OTHER REMEDY STRUCTURES AT THE LANDFILL FOR THE DURATION OF THE PROJECT.

EQUIPMENT

- THE CONTRACTOR SHALL PROVIDE A LIST OF ALL EQUIPMENT PROPOSED TO BE WORKING ON THE LANDFILL. THE LIST SHALL INCLUDE THE EQUIPMENT WEIGHT, GROUND PRESSURE, AND ANY RESTRICTIONS THAT WILL BE IMPOSED ON THE VEHICLE (E.G., LIMITED TO TEMPORARY ACCESS ROADS, LIMITED TO CARRYING 1/2 LOADS, ETC.).
- ALL EQUIPMENT IS SUBJECT TO REVIEW AND APPROVAL BY THE ENGINEER. AS A GENERAL RULE, EQUIPMENT SHALL HAVE A MAXIMUM GROUND PRESSURE OF LESS THAN 10 PSI ON THE EXISTING LANDFILL SYSTEM (OFF THE PROPOSED ACCESS ROAD).

Concord Landfill Solar PV Development

Concord Municipal Landfill

Permit Number: DES-SW-TP-94-016

77 Old Turnpike Road Concord, NH



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5 04/28/2025 REVISED PER CITY COMMENTS 03/14/2025 NHFG REC. PERMIT CONDITIO NHFG AOT RFAI COMMENTS 01/30/2025 ISSUED FOR PERMITTING - TYP NHDES AOT RFMI COMMENTS ISSUED FOR PERMITTING - AG 10/24/2024 Date Description

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Issued For:

PERMITTING

10/24/2024 DED Reviewed By: MRC RJB Approved By:

ENG24-0294

Kearsarge

Concord, NH

Drawing Title:

W&S Project No.:

W&S File No.:

NOTES AND **SPECIFICATIONS**

Sheet Number:

NOT FOR CONSTRUCTION

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- 1. EASTERN HOGNOSE SNAKE (STATE ENDANGERED), NORTHERN BLACK RACER (STATE THREATENED), KARNER BLUE BUTTERFLY (STATE ENDANGERED), FROSTED ELFIN (STATE ENDANGERED), PERSIUS DUSKYWING (STATE ENDANGERED), GRASSHOPPER SPARROW (STATE THREATENED), AND EASTERN MEADOWLARK (STATE THREATENED) OCCUR WITHIN THE VICINITY OF THE PROJECT AREA. ALL OPERATORS AND PERSONNEL WORKING ON OR ENTERING THE SITE SHALL BE MADE AWARE OF THE POTENTIAL PRESENCE OF THESE SPECIES AND SHALL BE PROVIDED FLYERS THAT HELP TO IDENTIFY THESE SPECIES, ALONG WITH NHFG CONTACT INFORMATION. SEE PLAN SHEET C002 FOR NHFG CONTACT INFORMATION. SEE ATTACHED FLYERS AT THE END OF THIS
- 2. RARE SPECIES INFORMATION (E.G. IDENTIFICATION, OBSERVATION AND REPORTING OF OBSERVATIONS, WHEN TO CONTACT NHFG IMMEDIATELY AND NHFG CONTACT INFORMATION) SHALL BE COMMUNICATED DURING MORNING TAILGATE MEETINGS PRIOR TO WORK COMMENCEMENT DURING THE CONSTRUCTION PHASE OF THE PROJECT. SEE PLAN SHEET C002 FOR NHFG CONTACT INFORMATION.
- 3. OBSERVATIONS OF NORTHERN BLACK RACER AND EASTERN HOGNOSE SHALL BE REPORTED IMMEDIATELY TO NHFG WILDLIFE BIOLOGISTS MELISSA WINTERS AND BRENDAN CLIFFORD FOR FURTHER CONSULTATION - VIA GROUP TEXT PREFERRED. SEE SPECIES FLYERS INCLUDED AT THE END OF THIS SHEET SET. SEE PLAN SHEET C002 FOR NHFG CONTACT INFORMATION.
- 4. MOWING SHALL NOT OCCUR BETWEEN MAY 1ST AND JUNE 30TH IN EACH CALENDAR YEAR, UNLESS ABSOLUTELY NECESSARY FOR THE SAFE ACCESS AND OPERATION OF THE SITE, OR FOR ANY EMERGENCY RESPONSE RELATED TO THE CITY OF CONCORD'S MANAGEMENT OF GAS, WATER WELL, SURFACE COVER, AND STORMWATER SYSTEMS UNDER THE CONCORD MUNICIPAL LANDFILL CLOSURE PLAN.
- 5. GRASSLAND BIRD SURVEYS SHALL BE CONDUCTED DURING MAY JULY PRIOR TO ANY CONSTRUCTION ACTIVITIES AND ANNUALLY FOR A PERIOD OF 3 YEARS AFTER SOLAR INSTALLATION, DEPENDING ON PRE-SOLAR INSTALLATION SURVEY RESULTS.
- A. A MINIMUM OF FOUR YEARS OF SURVEYS SHALL BE CONDUCTED WITH NHFG RETAINING THE ABILITY TO REQUIRE A 5TH YEAR SURVEY. DEPENDING ON PRE-SOLAR INSTALLATION SURVEY RESULTS.
- B. SURVEY PROTOCOL SHALL INCLUDE BUT NOT BE LIMITED TO SURVEYS ONCE EVERY TWO WEEKS BETWEEN MAY AND JULY AND SHALL INCLUDE MAPPING OF BREEDING BIRD TERRITORIES.
- C. SURVEYS SHALL BE COMPLETED BY A WILDLIFE BIOLOGIST WITH EXPERIENCE
- PROVIDED TO NHFG AND QUALIFICATIONS CONFIRMED BY NHFG. D. SURVEY PROTOCOL DETAILS SHALL BE COORDINATED WITH NHFG ANNUALLY BY APRIL 1ST OF THE SURVEY YEAR AND SHALL BE DEVELOPED OFF OF PREVIOUSLY APPROVED METHODS.
- E. A DRAFT OF THE SURVEY PROTOCOL SHALL BE SUBMITTED ALONG WITH AN APPLICATIONS FOR A SCIENTIFIC LICENSE, TO NHFGREVIEW@WILDLIFE.NH.GOV AND BRENDAN.J.CLIFFORD@WIDLIFE.NH.GOV WITH EMAIL SUBJECT LINE: NHB24-2209 SCIENTIFIC PERMIT APPLICATION ANNUAL GRASSLAND BIRD SURVEY CONCORD.
- F. A SUMMARY OF FINDINGS SHALL BE PROVIDED TO NHFG WITHIN 30-DAYS OF SURVEY COMPLETION. COMPLETE TERMS AND METHODS SHALL BE INCORPORATED IN THE APPROVED NHFG SCIENTIFIC LICENSE.
- G. SURVEY RESULTS WILL BE USED TO INFORM FUTURE SURVEY REQUIREMENTS AS WELL AS IDENTIFY POTENTIAL ADAPTIVE MANAGEMENT STRATEGIES TO MINIMIZE THE IMPACT TO MIGRATORY BIRDS POST-CONSTRUCTION AND DURING THE LIFE OF THE SOLAR FACILITY.
- 6. A NATIVE SEED MIXTURE SHALL BE APPLIED TO ALL AREAS AFFECTED BY CONSTRUCTION. SEED MIXTURES SHALL NOT CONTAIN DUTCH WHITE CLOVER. SEE PLAN SHEET C001 FOR FURTHER SEEDING INFORMATION.
- 7. ANY NEW FENCING INSTALLED AROUND THE SOLAR FACILITY SHALL BE RAISED 6"-8" TO ALLOW THE PASSAGE OF TURTLES AND OTHER WILDLIFE. SEE PLAN SHEET C502, DETAIL
- 8. HYDROSEED WITH FERTILIZER AND DYES SHALL NOT BE USED ON THE SITE. SEE PLAN SHEET C001 FOR FURTHER SEEDING INFORMATION.
- 9. ROAD SALT SHALL NOT BE USED ON ACCESS ROADS OR ROADS WITHIN THE SOLAR FACILITY TO MINIMIZE NEGATIVE IMPACTS TO WILDLIFE HABITAT. SEE PLAN SHEET C001 FOR FURTHER INFORMATION ON ACCESS ROADS.
- 10. ALL MANUFACTURED EROSION AND SEDIMENT CONTROL PRODUCTS, WITH THE EXCEPTION OF TURF REINFORCEMENT MATS. UTILIZED FOR. BUT NOT LIMITED TO. SLOPE PROTECTION, RUNOFF DIVERSION, SLOPE INTERRUPTION, PERIMETER CONTROL, INLET PROTECTION, CHECK DAMS, AND SEDIMENT TRAPS SHALL NOT CONTAIN PLASTIC, OR MULTIFILAMENT OR MONOFILAMENT POLYPROPYLENE NETTING OR MESH WITH AN OPENING SIZE OF GREATER THAN 1/8 INCHES. SEE SHEET C501 FOR FURTHER INFORMATION ON EROSION AND SEDIMENT CONTROL PRODUCTS SPECIFIED.
- 11. ALL OBSERVATIONS OF THREATENED OR ENDANGERED SPECIES ON THE PROJECT SITE SHALL BE REPORTED IMMEDIATELY TO THE NHFG NONGAME AND ENDANGERED WILDLIFE ENVIRONBMENTAL REVIEW PROGRAM BY PHONE AT 603-271-2461 AND BY EMAIL AT NHFGREVIEW@WILDLIFE.NH.GOV, WITH THE EMAIL SUBJECT LINE CONTAINING THE NHB DATACHECK TOOL RESULTS LETTER ASSIGNED NUMBER, THE PROJECT NAME, AND THE TERM "WILDLIFE SPECIES OBSERVATION".
- A. PHOTOGRAPHS OF THE OBSERVED SPECIES AND NEARBY ELEMENTS OF HABITAT OR AREAS OF LAND DISTURBANCE SHALL BE PROVIDED TO NHFG IN DIGITAL FORMAT AT THE ABOVE EMAIL ADDRESS FOR VERIFICATION, AS FEASIBLE.
- 12. 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 NHFG AND IMPLEMENTATION OF CORRECTIVE ACTIONS RECOMMENDED BY NHFG.
- A. SITE OPERATORS SHALL BE ALLOWED TO RELOCATE WILDLIFE ENCOUNTERED IF DISCOVERED WITHIN THE ACTIVE WORK ZONE IF IN DIRECT HARM FROM PROJECT ACTIVITIES.
- B. WILDLIFE SHALL BE RELOCATED IN CLOSE PROXIMITY TO THE CAPTURE LOCATION BUT OUTSIDE OF THE WORK ZONE AND IN THE DIRECTION THE INDIVIDUAL WAS HEADING C. NHFG SHALL BE CONTACT IMMEDIATELY IS THIS ACTION OCCUR.
- 13. NHFG, INCLUDING ITS EMPLOYEES AND AUTHORIZED AGENTS, SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE PERMIT.

RECOMMENDED ADDITIONAL WILDLIFE PROTECTION FOR SPECIES OF SPECIAL CONCERN:

- 1. WOOD TURTLE (SPECIAL CONCERN, PROTECTED UNDER FIS 1400 RULES), NORTHERN LEOPARD FROG (SPECIAL CONCERN), HORNED LARK (SPECIAL CONCERN), AND VESPER SPARROW (SPECIAL CONCERN) OCCUR WITHIN THE VICINITY OF THE PROJECT AREA. ALL OPERATORS AND PERSONNEL WORKING ON OR ENTERING THE SITE SHOULD BE MADE AWARE OF THE POTENTIAL PRESENCE OF THIS SPECIES AND SHOULD BE PROVIDED FLYERS THAT HELP TO IDENTIFY THIS SPECIES, ALONG WITH NHFG CONTACT INFORMATION. SEE FLYERS PROVIDED AT THE END OF THIS SHEET SET. SEE PLAN SHEET C002 FOR NHFG CONTACT INFORMATION.
- 2. TURTLES MAY BE ATTRACTED TO DISTURBED GROUND DURING THE NESTING SEASON (MAY 15TH - JUNE 30TH). TURTLE NESTS ARE PROTECTED BY NH LAWS. IF A NEST IS OBSERVED OR SUSPECTED, OPERATORS SHALL CONTACT JOSH MEGYESY AT NHFG IMMEDIATELY FOR FURTHER CONSULTATION. SEE SPECIES FLYERS INCLUDED AT THE END OF THIS SHEET SET. SEE PLAN SHEET C002 FOR NHFG CONTACT INFORMATION.
- A. THE NEST OR SUSPECTED NEST SHALL BE MARKED (SURROUNDING ROPED OFF OR CONE BUFFER DEPLOYED) AND AVOIDED; THIS SHALL BE COMMUNICATED TO ALL PERSONNEL ONSITE.
- B. SITE ACTIVITIES SHALL NOT OCCUR IN THE AREA SURROUNDING THE NEST OR SUSPECTED NEST UNTIL FURTHER GUIDANCE IS PROVIDED BY NHFG.

CONCORD CONDITIONAL USE PERMIT & MINOR SITE PLAN REVIEW APPLICATION WAIVER REQUESTS:

SECTION 12 - GENERAL REQUIREMENTS FOR ALL DRAWINGS SECTIONS 12.03(3), 12.03(4), 12.03(6), 12.04, 12.06(3), 12.06(4)

SECTION 13 - GENERAL REQUIREMENTS FOR DOCUMENTATION SECTIONS 13.01(5), 13.01(6), 13.01(8)(c), 13.01(8)(d), 13.01(8)(e), 13.01(8)(f), 13.02 SECTION 15 - APPLICATION REQUIREMENTS FOR MINOR SITE PLANS

SECTIONS 15.01(8), 15.02(3), 15.02(8), **15.03(1)BEARINGS AND DIMS**, 15.03(2), 15.03(4), 15.03(5), 15.03(6), 15.03(7), 15.03(8), 15.03(14), 15.03(16), 15.03(22), 15.03(24), 15.03(25), **15.04(1) BEARINGS AND DIMENSIONS**, 15.04(2), 15.04(3), 15.04(8), 15.04(10), 15.04(11), 15.04(13), 15.04(14), 15.04(15), 15.04(21), 15.04(23)

SECTION 16.02 - SITE PLAN REQUIREMENTS SECTIONS 16.02(3), 16.02(6), 16.02(12), 16.02(13), 16.02(14), 16.02(15), 16.02(16), 16.02(17), 16.02(18), 16.02(19), 16.02(20), 16.02(21), 16.03 SECTION 17 - GENERAL DESIGN STANDARDS

SECTION 18 - PARKING LOT DESIGN STANDARDS

NOT APPLICABLE SECTION 19 - ACCESS AND DRIVEWAY STANDARDS

SECTIONS 19.01, 19.04, 19.05, 19.07, 19.08, 19.09, 19.10, 19.11 SECTION 20 - LOADING, AND SOLID WASTE FACILITY STANDARDS NOT APPLICABLE

SECTION 21 - SIDEWALKS, MULTI-USE PATHS, AND TRAILS

NOT APPLICABLE **SECTION 22 - STORM WATER MANAGEMENT** 22.07(3), 22.08(3), 22.19

SECTION 25 - NON-MUNICIPAL UTILITIES

NOT APPLICABLE SECTION 26 - BUFFERS AND SCREENING

SECTION 26.06 SECTION 27 - LANDSCAPING

SECTION 27.03, 27.06, 27.07, 27.09 SECTION 29 - LIGHTING

Concord Landfill Solar PV Development

Facility: Concord Municipal Landfill

Permit Number: DES-SW-TP-94-016

77 Old Turnpike Road Concord, NH

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Project Developer / Co-Applicant:



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Revisions:				
5	04/28/2025	REVISED PER CITY COMMENTS		
4	03/14/2025	NHFG REC. PERMIT CONDITIONS		
3	02/11/2025	NHFG AOT RFAI COMMENTS		
2	01/30/2025	ISSUED FOR PERMITTING - TYPE 1		
1	01/03/2025	NHDES AOT RFMI COMMENTS		
0	10/24/2024	ISSUED FOR PERMITTING - AOT		
No.	Date	Description		
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Kearsarge

Concord, NH

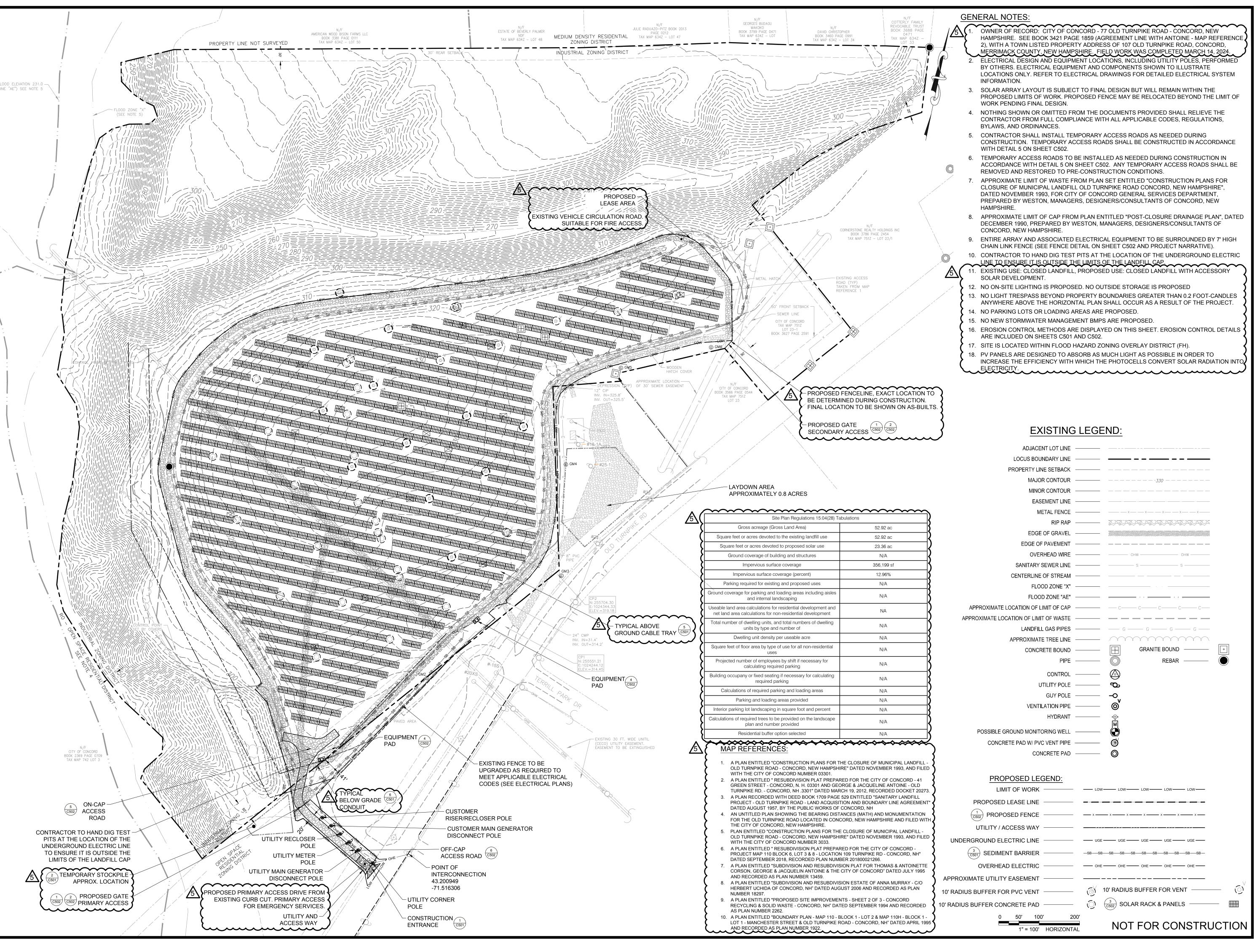
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RECOMMENDED PERMIT CONDITIONS

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Concord Landfill Solar PV Development

> Facility: Concord Municipal Landfill

Permit Number: DES-SW-TP-94-016

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City of Concord

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5 04/28/2025 REVISED PER CITY COMMENTS 03/14/2025 NO CHANGES THIS SHEET 01/30/2025 ISSUED FOR PERMITTING - TYP NO CHANGES THIS SHEET 10/24/2024 ISSUED FOR PERMITTING - AG No. Date Description ROBERT BUKOWSKI No. 12735

Issued For:

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10/24/2024 DED Drawn By: Reviewed By: RJB Approved By:

ENG24-0294

Kearsarge

Concord, NH

Orawing Title:

W&S Project No.:

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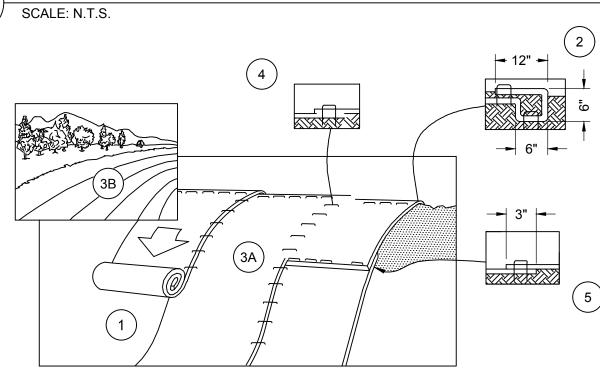
PROPOSED SITE PLAN

Sheet Number:

STABILIZED CONSTRUCTION ENTRANCE NOTES:

- 1. FILTER FABRIC WILL BE PLACED OVER THE ENTIRE AREA FOLLOWING GRADING (AS NEEDED) TO LEVEL PAD PRIOR TO PLACING OF STONE.
- 2. SURFACE WATER ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- 3. MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED BY THE CONTRACTOR IMMEDIATELY.
- 4. WASHING WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- 5. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
- 6. AT THE CONCLUSION OF PROJECT, ANY ACCUMULATED SEDIMENT SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. REMOVAL OF ANTI-TRACKING PAD SHALL BE AT NO ADDITIONAL COST TO THE OWNER.
- 7. P.C. = POINT OF CURVATURE
- 8. P.T. = POINT OF TANGENCY

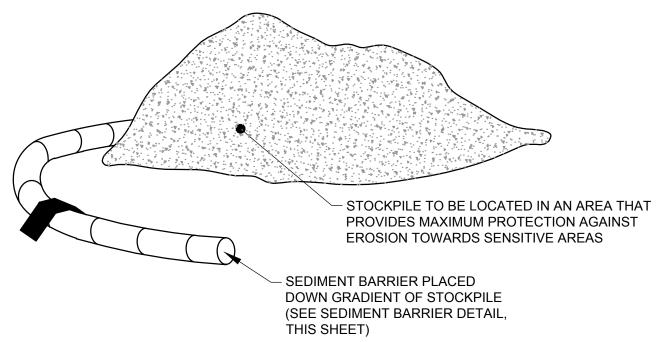
STABILIZED CONSTRUCTION ENTRANCE



NOTES:

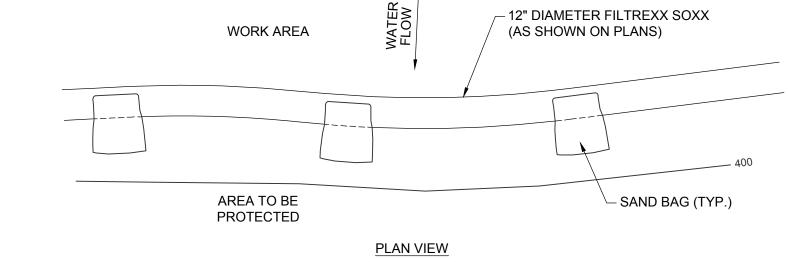
- 1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
- 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. 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 SPLICED 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.
- 6. ALL 3H:1V SLOPES SHALL BE STABILIZED WITH EROSION CONTROL BLANKETING. BLANKETING SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
- 7. ALL SLOPES STEEPER THAN 3H:1V SHALL BE STABILIZED WITH PERMANENT TURF REINFORCEMENT MATTING OR RIPRAP.
- 8. THERE SHALL BE NO PLASTIC, OR MULTI-FILAMENT OR MONOFILAMENT POLYPROPYLENE NETTING OR MESH WITH AN OPENING SIZE OF GREATER THAN 1/8 INCHES MATERIAL UTILIZED. EROSION CONTROL BLANKETS SHALL BE 100% BIODEGRADABLE NET PRODUCT, MADE FROM NATURAL FIBERS, AND USE A LOOSE WEAVE. EROSION CONTROL BLANKETS SHALL BE S31 BD AS MANUFACTURED BY GEO-SYNTHETICS SYSTEMS LLC OF WAUKESHA, WISCONSIN, OR APPROVED EQUAL. THE LISTED EROSION CONTROL BLANKET BIODEGRADABLE NET PRODUCT MEETS THE UNITED STATES FISH AND WILDLIFE REQUIREMENTS FOR WILDLIFE FRIENDLY EROSION CONTROL PRODUCTS.

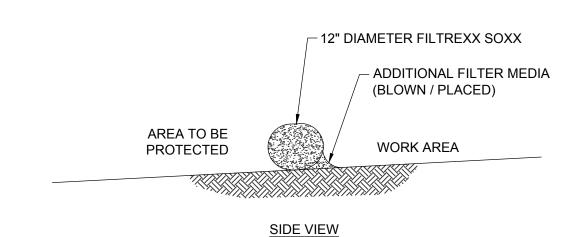
LONG AXIS OF STOCKPILE TO BE PERPENDICULAR TO CONTOUR



NOTES:

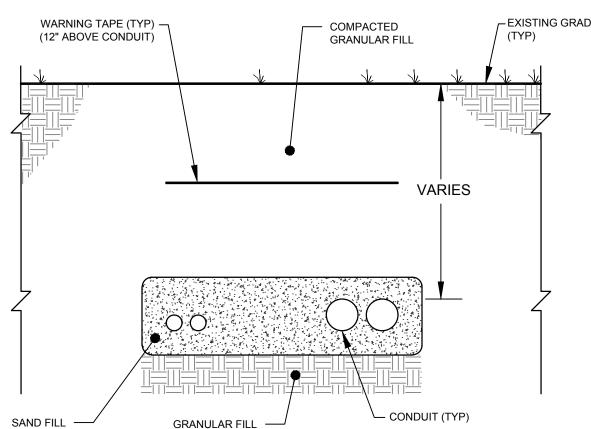
- 1. STOCKPILE AREAS SHALL BE LOCATED OUTSIDE OF WETLANDS AND 100-FT WETLAND BUFFERS.
- 2. WOODEN RAMPS SHOULD BE SET UP OVER THE SEDIMENT BARRIER EVERY 150' ENCIRCLING THE STOCKPILE TO PROVIDE WILDLIFE A MEANS OF EGRESS.
- TEMPORARY STOCKPILE SCALE: N.T.S.



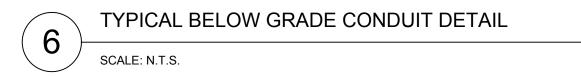


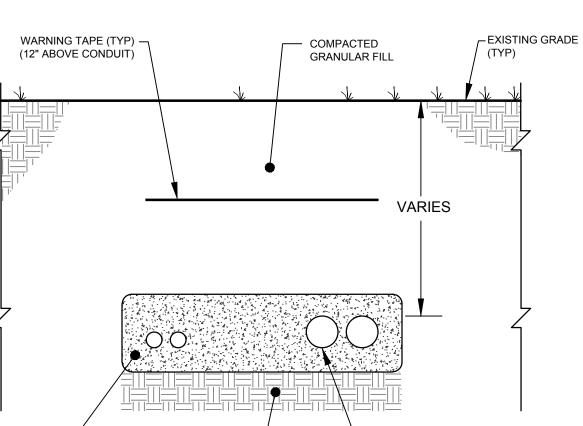
- 1. SUPPORT POSTS OR STAKES ARE PROHIBITED FOR USE TO SECURE SEDIMENT BARRIER OVER THE EXISTING LANDFILL CAP. NO EROSION/SEDIMENTATION CONTROL DEVICE SHALL PENETRATE THE EXISTING LANDFILL CAP MATERIAL
- 2. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
- 3. FILTER MEDIA FILL TO MEET APPLICATION REQUIREMENTS. 4. SAND BAGS TO BE SPACED EQUALLY TO SECURE COMPOST SOCKS IN PLACE, IF REQUIRED.
- 5. UPON COMPLETION, COMPOST MATERIAL TO BE DISPERSED ON SITE AS DETERMINED BY ENGINEER.





1. TRENCH SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. ELECTRICAL DESIGN AND CONFORMANCE WITH ELECTRICAL CODE REQUIREMENTS BY OTHERS.





DETAILS I Sheet Number:

Reviewed By:

Approved By:

W&S File No.:

Orawing Title:

W&S Project No.:

Concord Landfill

Solar PV Development

Facility:

Concord Municipal Landfill

Permit Number:

DES-SW-TP-94-016

77 Old Turnpike Road Concord, NH

Weston & Sampson Engineers, Inc. 150 Dow St, Tower 4, Suite 350

Manchester, NH 03101

www.westonandsampson.com

City of Concord

41 Green Street

Concord, NH 03301

(603) 225-8610

Kearsarge Old Turnpike Road LLC

1380 Soldiers Field Road

Suite 3900

Boston, MA 02135

Tel: (617) 393-4222

www.kearsargeenergy.com

5 04/28/2025 REVISED PER CITY COMMENTS

01/30/2025 ISSUED FOR PERMITTING - TYP

ROBERT

No. 12735

PERMITTING

10/24/2024

ENG24-0294

Kearsarge

Concord, NH

DED

RJB

NO CHANGES THIS SHEET

NO CHANGES THIS SHEET

NO CHANGES THIS SHEET ISSUED FOR PERMITTING - AG Description

03/14/2025

Issued For:

Project Developer / Co-Applicant:

800 SAMPSON

603.263.9296

Land Owner / Co-Applicant:

TEMPORARY EROSION CONTROL BLANKET

TYPICAL ABOVE GROUND CABLE TRAY DETAIL

GROUND CABLE TRAYS OR APPROVED SIMILAR.

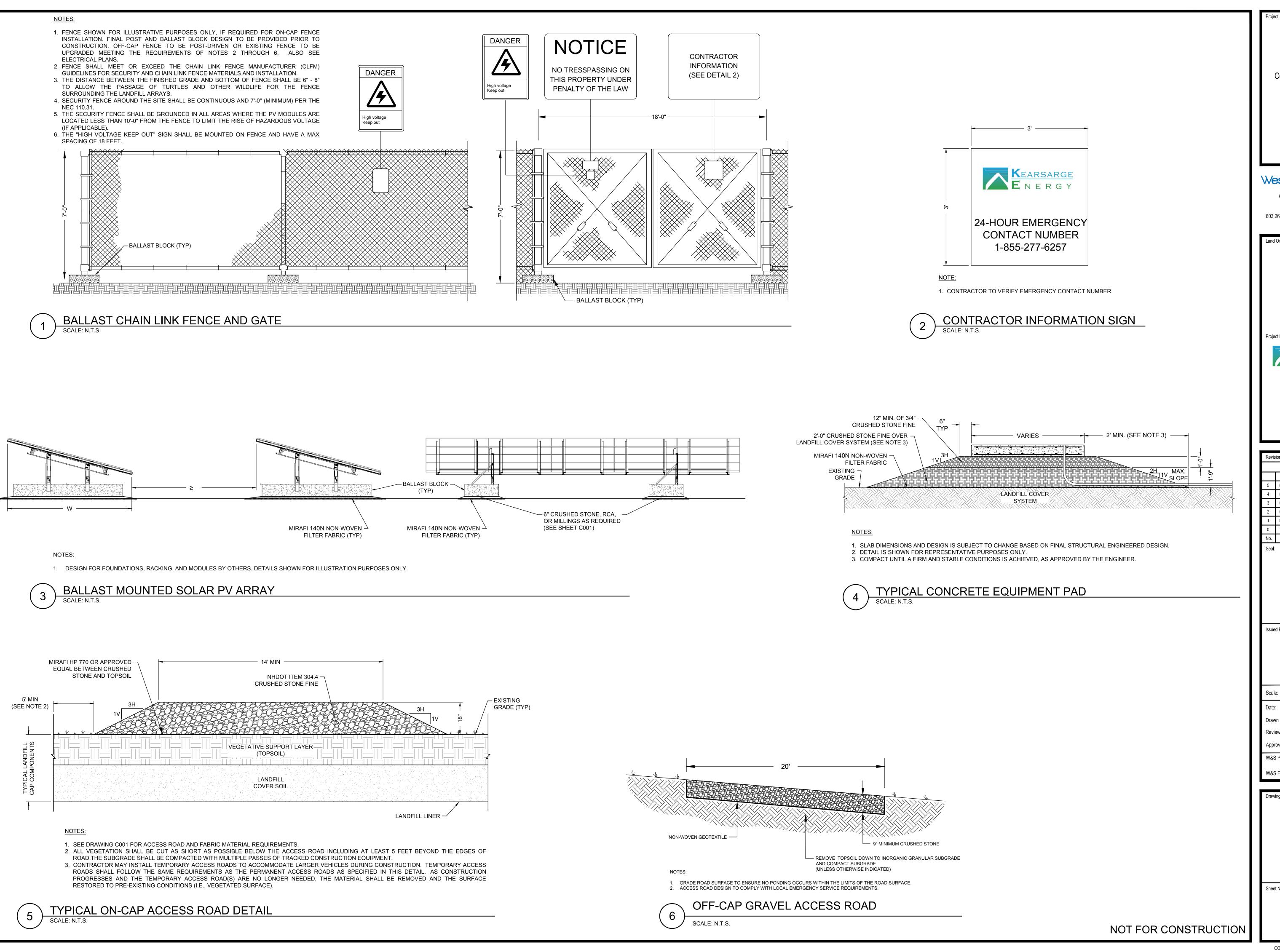
1. ALL CONDUIT THAT IS LOCATED ABOVE THE LANDFILL COVER SYSTEM SHALL BE RUN IN ABOVE

2. ELECTRICAL DESIGN AND CONFORMANCE WITH ELECTRICAL CODE REQUIREMENTS BY OTHERS.

3. LOADING OF CONDUIT SUPPORT BLOCKS SHALL BE CONFIRMED PRIOR TO CONSTRUCTION.

SCALE: N.T.S.

NOT FOR CONSTRUCTION



Concord Landfill Solar PV Development

Facility:
Concord Municipal Landfill

Permit Number: DES-SW-TP-94-016

77 Old Turnpike Road Concord, NH

Weston & Sampsor

Weston & Sampson Engineers, Inc. 150 Dow St, Tower 4, Suite 350 Manchester, NH 03101 603.263.9296 800.SAMPSON



City of Concord 41 Green Street Concord, NH 03301

(603) 225-8610
Project Developer / Co-Applicant:



Kearsarge Old Turnpike Road LLC 1380 Soldiers Field Road Suite 3900 Boston, MA 02135 Tel: (617) 393-4222 www.kearsargeenergy.com

_					
	Revisions:				
	5	04/28/2025	REVISED PER CITY COMMENTS		
	4	03/14/2025	NHFG REC. PERMIT CONDITIONS		
	3	02/11/2025	NO CHANGES THIS SHEET		
ı	2	01/30/2025	ISSUED FOR PERMITTING - TYPE 1B		
	1	01/03/2025	NHDES AOT RFMI COMMENTS		
	0	10/24/2024	ISSUED FOR PERMITTING - AOT		
	No.	Date	Description		

Robert
Bukowski
No. 12735

PERMITTING

Scale:

Date: 10/24/2024

Drawn By: DED

Reviewed By: MRC

Approved By: RJB

W&S Project No.: ENG24-0294
W&S File No.: Kearsarge Concord, NH

Drawing Title:

DETAILS II

Sheet Number:

C502

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