PROPOSED SITE PLAN DOCUMENTS

FOR

NEXTGRID MESCALBEAN LLC

PROPOSED

SOLAR FARM

LOCATION OF SITE:

160 MAPLE STREET, TOWN OF BELLINGHAM & FRANKLIN

NORFOLK COUNTY, MASSACHUSETTS

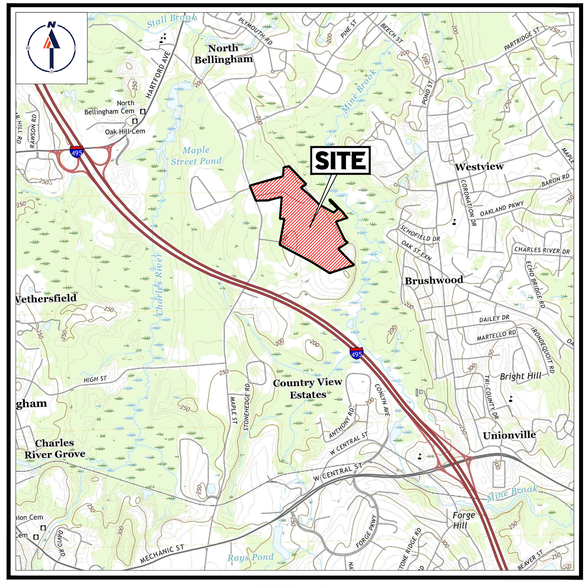
LOTS INCLUDED (PARCEL #): 239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, & 26-0009 (BELLINGHAM)

REFERENCES

EXISTING CONDITIONS SURVEY:
FELDMAN GEOSPATIAL
152 HAMPDEN STREET, BOSTON, MA 01608
DATE: 05/09/2022

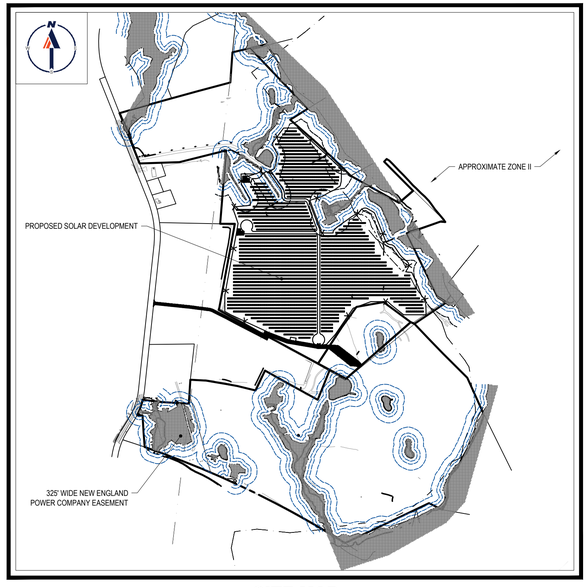
ANR SURVEY:
FELDMAN GEOSPATIAL
152 HAMPDEN STREET, BOSTON, MA 01608
DATE: 08/05/2022

* THE ABOVE REFERENCED DOCUMENTS ARE INCORPORATED BY REFERENCE AS PART OF THESE PLANS, HOWEVER, BOHLER ENGINEERING DOES NOT CERTIFY THE ACCURACY OF THE WORK REFERENCED OR DERIVED FROM THESE DOCUMENTS, BY OTHERS.



USGS MAP

SCALE: 1" = 2,000'
SOURCE: FRANKLIN MASSACHUSETTS USGS QUADRANGLE



SITE MAP

SCALE: 1" = 600'
SOURCE: GOOGLE AERIAL

PREPARED BY

DRAWING SHEET INDEX

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GENERAL NOTES SHEET	C-102
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DEMOLITION PLAN (A-F)	C-202 - C-207
OVERALL SITE LAYOUT PLAN	C-301
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OVERALL GRADING PLAN	C-401
GRADING PLAN (A - F)	C-402 - C-407
OVERALL EROSION & SEDIMENT CONTROL PLAN	C-601
EROSION & SEDIMENT CONTROL PLAN (A - F)	C-602 - C-607
EROSION & SEDIMENT CONTROL NOTES & DETAILS	C-608 - C-609
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FIRE TRUCK CIRCULATION PLAN	1 OF 1
EXISTING CONDITIONS PLAN (BY FELDMAN GEOSPTIAL)	8 SHEETS

BOHLER

SITE CIVIL AND CONSULTING ENGINEERING
LAND SURVEYING
PROGRAM MANAGEMENT
LANDSCAPE ARCHITECTURE
SUSTAINABLE DESIGN
PERMITTING SERVICES
TRANSPORTATION SERVICES

THE INFORMATION, DESIGN AND CONTENT OF THIS PLAN IS FOR EXCLUSIVE USE BY BOHLER AND SHALL NOT BE DISCLOSED OR USED FOR ANY PURPOSE, WHICH IS NOT CONSISTENT WITH THE CONTRACTUAL AGREEMENT ENTERED INTO BY BOHLER AND THE CLIENT, WITHOUT THE PRIOR WRITTEN AUTHORIZATION FROM BOHLER. ONLY APPROVED AND SIGNED AND SEALED PLANS SHALL BE UTILIZED FOR CONSTRUCTION PURPOSES. © 2020 BOHLER

REVISIONS

REV	DATE	COMMENT	DRAWN BY / CHECKED BY
1	06/07/2023	PLANNING BOARD COMMENTS	OCR / GD
2	07/10/2023	PLANNING BOARD COMMENTS	OCR / GD
3	7/19/2023	PER SURVEY UPDATES	AP / GD
4	8/01/2023	PARCEL AREA REFERENCES	AP / GD

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FOR EXHIBIT PURPOSES ONLY

THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION DOCUMENT UNLESS INDICATED OTHERWISE.

PROJECT No.:	W201257
DRAWN BY:	EVD / CMC / OCR
CHECKED BY:	GD
DATE:	04/13/2023
CAD I.D.:	W201257-SPPD-4A

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR

NEXTGRID MESCALBEAN LLC

PROPOSED
SOLAR FARM

LOTS INCLUDED (PARCEL #):239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009
160 MAPLE STREET,
TOWN OF BELLINGHAM & FRANKLIN,
NORFOLK COUNTY, MASSACHUSETTS

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MASSACHUSETTS No. 41530
NEW HAMPSHIRE No. 19476
CONNECTICUT No. 29177
RHODE ISLAND No. 9616
MAINE License No. 12553

SHEET TITLE:

COVER SHEET

SHEET NUMBER:

C-101

REVISION 4 - 8/01/2023

P:\2021\257\CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\W201257-SPPD-4A-----LAYOUT C-101-COVR

GENERAL NOTES

1. THESE PLANS ARE SOLELY BASED ON INFORMATION THE OWNER AND OTHERS PROVIDED TO BOHLER ENGINEERING, (HEREIN "BOHLER") PRIOR TO THE DATE ON WHICH THE ENGINEER OF RECORD AND BOHLER PREPARED THESE PLANS. THE CONTRACTOR MUST FIELD VERIFY ALL EXISTING CONDITIONS AND IMMEDIATELY NOTIFY BOHLER , IN WRITING, IF ANY ACTUAL SITE CONDITIONS DIFFER FROM THOSE SHOWN ON THESE PLANS, OR IF THE PROPOSED WORK CONFLICTS WITH ANY OTHER SITE FEATURES.

2. THE CONTRACTOR MUST STRICTLY COMPLY WITH THESE NOTES AND ALL SPECIFICATIONS/REPORTS CONTAINED HEREIN. THE CONTRACTOR MUST ENSURE THAT ALL SUBCONTRACTORS FULLY AND COMPLETELY CONFORM TO AND COMPLY WITH THESE REQUIREMENTS. THESE NOTES, AND THE REQUIREMENTS ARTICULATED IN THE NOTES CONTAINED IN ALL THE OTHER DRAWINGS THAT COMPRISE THE PLAN SET OF DRAWINGS. ADDITIONAL NOTES AND SPECIFIC PLAN NOTES MAY BE FOUND ON THE INDIVIDUAL PLANS. THESE GENERAL NOTES APPLY TO THIS ENTIRE DOCUMENT PACKAGE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL CONSTRUCTION CONTRACT DOCUMENTS INCLUDING, BUT NOT LIMITED TO, ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THE PROJECT WORK SCOPE, PRIOR TO THE INITIATION AND COMMENCEMENT OF CONSTRUCTION.

3. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR MUST CONFIRM WITH THE ENGINEER OF RECORD AND BOHLER THAT THE LATEST EDITION OF THE DOCUMENTS AND/OR REPORTS REFERENCED WITHIN THE PLAN REFERENCES ARE BEING USED FOR CONSTRUCTION. THIS IS THE CONTRACTOR'S SOLE AND COMPLETE RESPONSIBILITY.

4. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR MUST ENSURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION IS TO BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED THE CONDITIONS OF APPROVAL TO ALL PLANS AND OTHER DOCUMENTS APPROVED BY THE PERMITTING AUTHORITIES AND HAS ALSO CONFIRMED THAT ALL NECESSARY AND REQUIRED PERMITS HAVE BEEN OBTAINED. THE CONTRACTOR MUST HAVE COPIES OF ALL PERMITS AND APPROVALS ON SITE AT ALL TIMES.

5. THE CONTRACTOR MUST ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS/REPORTS AND CONDITIONS OF APPROVAL, AND ALL APPLICABLE REQUIREMENTS, RULES, REGULATIONS, STATUTORY REQUIREMENTS, CODES, LAWS AND STANDARDS OF ALL GOVERNMENTAL ENTITIES WITH JURISDICTION OVER THIS PROJECT, AND ALL PROVISIONS IN AND CONDITIONS OF THE CONSTRUCTION CONTRACT WITH THE OWNER/DEVELOPER INCLUDING ALL EXHIBITS, ATTACHMENTS AND ADDENDA TO SAME.

6. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR MUST COORDINATE THE BUILDING LAYOUT BY CAREFULLY REVIEWING THE MOST CURRENT ARCHITECTURAL, CIVIL AND STRUCTURAL CONSTRUCTION DOCUMENTS (INCLUDING, BUT NOT LIMITED TO, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION PLANS, WHERE APPLICABLE). THE CONTRACTOR MUST IMMEDIATELY NOTIFY OWNER, ARCHITECT AND ENGINEER OF RECORD AND BOHLER, IN WRITING, OF ANY CONFLICTS, DISCREPANCIES OR AMBIGUITIES WHICH EXIST BETWEEN THESE PLANS AND ANY OTHER PLANS THAT COMPRISE THE CONSTRUCTION DOCUMENTS.

7. CONTRACTOR MUST REFER TO AND ENSURE COMPLIANCE WITH THE APPROVED ARCHITECTURAL/BUILDING PLANS OF RECORD FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRY/EXIT POINTS, ELEVATIONS, PRECISE BUILDING DIMENSIONS, AND EXACT BUILDING UTILITY LOCATIONS.

8. THE CONTRACTOR MUST FIELD VERIFY ALL DIMENSIONS AND MEASUREMENTS SHOWN ON THESE PLANS, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR MUST IMMEDIATELY NOTIFY ENGINEER OF RECORD AND BOHLER, IN WRITING, IF ANY CONFLICTS, DISCREPANCIES, OR AMBIGUITIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION. NO EXTRA COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR WORK WHICH HAS TO BE REDONE OR REPAIRED DUE TO DIMENSIONS, MEASUREMENTS OR GRADES SHOWN INCORRECTLY ON THESE PLANS PRIOR TO BOTH (A) THE CONTRACTOR GIVING ENGINEER OF RECORD AND BOHLER WRITTEN NOTIFICATION OF SAME AND (B) ENGINEER OF RECORD AND BOHLER, THEREAFTER, PROVIDING THE CONTRACTOR WITH WRITTEN AUTHORIZATION TO PROCEED WITH SUCH ADDITIONAL WORK.

9. THE CONTRACTOR MUST VERIFY ALL DIMENSIONS AND MEASUREMENTS INCLUDED ON DESIGN DOCUMENTS HEREIN AND MUST NOT SCALE OFF THE DRAWINGS DUE TO POTENTIAL PRINTING INACCURACIES. ALL DIMENSIONS AND MEASUREMENTS ARE TO BE CHECKED AND CONFIRMED BY THE GENERAL CONTRACTOR PRIOR TO PREPARATION OF SHOP DRAWINGS AND/OR ORDERING OF PARTS AND MATERIALS AND COMMENCEMENT OF SITE WORK. SITE PLAN DRAWINGS ARE NOT INTENDED AS SURVEY DOCUMENTS. DIMENSIONS SUPERSEDE GRAPHICAL REPRESENTATIONS. THE CONTRACTOR MUST MAKE CONTRACTOR'S OWN MEASUREMENTS FOR LAYOUT OF IMPROVEMENTS.

10. THE OWNER AND CONTRACTOR MUST BE FAMILIAR WITH AND RESPONSIBLE FOR THE PROCUREMENT OF ANY AND ALL CERTIFICATIONS REQUIRED FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.

11. WHEN INCLUDED AS ONE OF THE REFERENCED DOCUMENTS, THE GEOTECHNICAL REPORT, SPECIFICATIONS AND RECOMMENDATIONS SET FORTH THEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND, IN CASE OF CONFLICT, DISCREPANCY OR AMBIGUITY, THE MORE STRINGENT REQUIREMENTS AND/OR RECOMMENDATIONS CONTAINED IN: (A) THE PLANS; AND (B) THE GEOTECHNICAL REPORT AND RECOMMENDATIONS, MUST TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR MUST NOTIFY THE ENGINEER OF RECORD AND BOHLER, IN WRITING, OF ANY SUCH CONFLICT, DISCREPANCY OR AMBIGUITY BETWEEN THE GEOTECHNICAL REPORT AND PLANS AND SPECIFICATIONS, PRIOR TO PROCEEDING WITH ANY FURTHER WORK. IF A GEOTECHNICAL REPORT HAS NOT BEEN CREATED, THEN THE CONTRACTOR MUST FOLLOW AND COMPLY WITH ALL OF THE REQUIREMENTS OF ANY AND ALL MUNICIPAL, COUNTY, STATE, AND FEDERAL LAWS AND APPLICABLE SPECIFICATIONS WHICH HAVE JURISDICTION OVER THIS PROJECT.

12. ENGINEER OF RECORD AND BOHLER ARE NEITHER LIABLE NOR RESPONSIBLE FOR ANY SUBSURFACE CONDITIONS AND FURTHER, HAS NO LIABILITY FOR ANY HAZARDOUS MATERIALS, HAZARDOUS SUBSTANCES, OR POLLUTANTS ON, ABOUT OR UNDER THE PROPERTY.

13. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING WHEN AND WHERE SHORING IS REQUIRED AND FOR INSTALLING ALL SHORING REQUIRED DURING EXCAVATION (TO BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE SAFETY REGULATIONS) AND ANY ADDITIONAL PRECAUTIONS NECESSARY TO ASSURE THE STABILITY OF ADJACENT, NEARBY AND CONTIGUOUS STRUCTURES AND PROPERTIES. ALL OF THIS WORK IS TO BE PERFORMED AT CONTRACTOR'S SOLE COST AND EXPENSE.

14. THE CONTRACTOR MUST EXERCISE EXTREME CAUTION WHEN PERFORMING ANY WORK ACTIVITIES ADJACENT TO PAVEMENT, STRUCTURES, ETC. WHICH ARE TO REMAIN EITHER FOR AND AS PART OF THE PROJECT OR AS PART OF THE FINAL CONDITION. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL APPROPRIATE MEASURES REQUIRED TO ENSURE THE STRUCTURAL STABILITY OF SIDEWALKS AND PAVEMENT, UTILITIES, BUILDINGS, AND INFRASTRUCTURE WHICH ARE TO REMAIN, AND TO PROTECT THE SAFETY FOR THIRD PARTIES, PEDESTRIANS AND ANYONE INVOLVED WITH THE PROJECT.

15. DEBRIS MUST NOT BE BURIED ON THE SUBJECT SITE. ALL DEMOLITION AND CONSTRUCTION WASTES, UNUTILIZABLE EXCAVATED MATERIAL, EXCESS SOIL AND DEBRIS (SOLID WASTE) MUST BE DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF ANY AND ALL MUNICIPAL, COUNTY, STATE, AND FEDERAL LAWS AND APPLICABLE CODES WHICH HAVE JURISDICTION OVER THIS PROJECT OR OVER THE CONTRACTOR.

16. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN RECORDS TO DEMONSTRATE PROPER AND FULLY COMPLIANT DISPOSAL ACTIVITIES, TO BE PROMPTLY PROVIDED TO THE OWNER UPON REQUEST.

17. THE CONTRACTOR MUST REPAIR, AT CONTRACTOR'S SOLE COST , ALL DAMAGE DONE TO ANY NEW OR EXISTING CONSTRUCTION OR PROPERTY DURING THE COURSE OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. AND MUST BEAR ALL COSTS ASSOCIATED WITH SAME TO INCLUDE, BUT NOT BE LIMITED TO, REDESIGN, RE-SURVEY, RE-PERMITTING AND CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR AND MUST REPLACE ALL SIGNAL INTERCONNECT, AND ANY UNDERGROUND ACCESSORY EQUIPMENT DAMAGED DURING CONSTRUCTION AND MUST BEAR ALL COSTS ASSOCIATED WITH SAME. THE REPAIR OF ANY SUCH NEW OR EXISTING CONSTRUCTION OR PROPERTY MUST RESTORE SUCH CONSTRUCTION OR PROPERTY TO A CONDITION EQUIVALENT TO OR BETTER THAN THE CONDITIONS PRIOR TO COMMENCEMENT OF THE CONSTRUCTION, AND IN CONFORMANCE WITH APPLICABLE CODES, LAWS, RULES, REGULATIONS, STATUTORY REQUIREMENTS AND STATUTES. THE CONTRACTOR MUST BEAR ALL COSTS ASSOCIATED WITH SAME. THE CONTRACTOR MUST, PROMPTLY, DOCUMENT ALL EXISTING DAMAGE AND NOTIFY, IN WRITING, THE OWNER AND THE CONSTRUCTION MANAGER PRIOR TO THE START OF CONSTRUCTION.

18. THE ENGINEER OF RECORD AND BOHLER ARE NOT RESPONSIBLE FOR AND HAVE NO CONTRACTUAL, LEGAL OR OTHER RESPONSIBILITIES FOR JOB SITE SAFETY JOB SITE SUPERVISION, OR ANYTHING RELATED TO SAME. THE ENGINEER OF RECORD AND BOHLER HAVE NOT BEEN RETAINED TO PERFORM OR TO BE RESPONSIBLE FOR JOB SITE SAFETY, SAME BEING WHOLLY OUTSIDE OF ENGINEER OF RECORD'S AND BOHLER SERVICES AS RELATED TO THE PROJECT. THE ENGINEER OF RECORD AND BOHLER ARE NOT RESPONSIBLE TO IDENTIFY OR REPORT ANY JOB SITE SAFETY ISSUES OR ANY JOB SITE CONDITIONS, AT ANY TIME.

19. THE CONTRACTOR MUST IMMEDIATELY IDENTIFY IN WRITING, TO THE ENGINEER OF RECORD AND BOHLER , ANY DISCREPANCIES THAT MAY OR COULD AFFECT THE PUBLIC SAFETY, HEALTH OR GENERAL WELFARE, OR PROJECT COST. IF THE CONTRACTOR PROCEEDS WITH CONSTRUCTION WITHOUT PROVIDING PROPER WRITTEN NOTIFICATION AS DESCRIBED ABOVE, IT WILL BE AT THE CONTRACTOR'S OWN RISK AND, FURTHER, THE CONTRACTOR MUST INDEMNIFY, DEFEND AND HOLD HARMLESS THE ENGINEER OF RECORD AND BOHLER FOR ANY AND ALL DAMAGES, COSTS, INJURIES, ATTORNEY'S FEES AND THE LIKE WHICH RESULT FROM OR ARE IN ANY WAY RELATED TO SAME INCLUDING, BUT NOT LIMITED TO, ANY THIRD PARTY AND FIRST PARTY CLAIMS.

20. THE ENGINEER OF RECORD AND BOHLER ARE NOT RESPONSIBLE FOR ANY INJURY OR DAMAGES RESULTING FROM THE CONTRACTOR'S FAILURE TO BUILD OR CONSTRUCT IN STRICT ACCORDANCE WITH THE APPROVED PLANS, AND CURRENT CODES, RULES, STATUTES AND THE LIKE. IF THE CONTRACTOR AND/OR OWNER FAIL TO BUILD OR CONSTRUCT IN STRICT ACCORDANCE WITH APPROVED PLANS, RULES, STATUTES, CODES AND THE LIKE, THE CONTRACTOR AND/OR OWNER AGREE TO AND MUST JOINTLY, INDEPENDENTLY, SEPARATELY, AND SEVERALLY INDEMNIFY AND HOLD THE ENGINEER OF RECORD AND BOHLER HARMLESS FOR AND FROM ALL INJURIES, CLAIMS AND DAMAGES THAT ENGINEER AND BOHLER SUFFER AND ANY AND ALL COSTS THAT ENGINEER AND BOHLER INCUR AS RELATED TO SAME.

21. ALL CONTRACTORS MUST CARRY AT LEAST THE MINIMUM AMOUNT OF THE SPECIFIED AND COMMERCIALLY REASONABLE STATUTORY WORKERS COMPENSATION INSURANCE, EMPLOYER'S LIABILITY INSURANCE AND COMMERCIAL GENERAL LIABILITY INSURANCE (CGL) INCLUDING ALSO ALL UMBRELLA COVERAGES. ALL CONTRACTORS MUST HAVE THEIR CGL POLICIES ENDORSED TO NAME BOHLER , AND ITS PAST, PRESENT AND FUTURE OWNERS, OFFICERS, DIRECTORS, PARTNERS, SHAREHOLDERS, MEMBERS, PRINCIPALS, COMMISSIONERS, AGENTS, SERVANTS, EMPLOYEES, AFFILIATES, SUBSIDIARIES, AND RELATED ENTITIES, AND ITS SUBCONTRACTORS AND SUBCONSULTANTS AS ADDITIONAL NAMED INSUREDS AND TO PROVIDE CONTRACTUAL LIABILITY COVERAGE SUFFICIENT TO INSURE (DEFEND, IF APPLICABLE) AND HOLD HARMLESS AND INDEMNITY OBLIGATIONS ASSUMED AND AGREED TO BY THE CONTRACTOR HEREIN. ALL CONTRACTORS MUST FURNISH BOHLER WITH CERTIFICATIONS OF INSURANCE OR CERTIFICATES OF INSURANCE AS EVIDENCE OF THE REQUIRED INSURANCE COVERAGES PRIOR TO COMMENCEMENT OF WORK AND UPON RENEWAL OF EACH POLICY DURING THE ENTIRE PERIOD OF CONSTRUCTION AND FOR TWO YEARS AFTER THE COMPLETION OF CONSTRUCTION AND AFTER ALL PERMITS ARE ISSUED, WHICHEVER DATE IS LATER. IN ADDITION, ALL CONTRACTORS AGREE THAT THEY WILL, TO THE FULLEST EXTENT PERMITTED UNDER THE LAW, INDEMNIFY, DEFEND AND HOLD HARMLESS BOHLER AND ITS PAST, PRESENT AND FUTURE OWNERS, OFFICERS, DIRECTORS, PARTNERS, SHAREHOLDERS, MEMBERS, PRINCIPALS, COMMISSIONERS, AGENTS, SERVANTS, EMPLOYEES, AFFILIATES, SUBSIDIARIES, AND RELATED ENTITIES, AND ITS SUBCONTRACTORS AND SUBCONSULTANTS FROM AND AGAINST ANY DAMAGES, INJURIES, CLAIMS, ACTIONS, PENALTIES, EXPENSES, PUNITIVE DAMAGES, TORT DAMAGES, STATUTORY CLAIMS, STATUTORY CAUSES OF ACTION, LOSSES, CAUSES OF ACTION, LIABILITIES OR COSTS, INCLUDING, BUT NOT LIMITED TO, REASONABLE ATTORNEYS' FEES AND DEFENSE COSTS, ARISING OUT OF OR IN ANY WAY CONNECTED WITH OR TO THE PROJECT, INCLUDING ALL CLAIMS BY EMPLOYEES OF THE CONTRACTOR(S), ALL CLAIMS BY THIRD PARTIES AND ALL CLAIMS RELATED TO THE PERFORMANCE OF THE PROJECT. THE CONTRACTOR MUST NOTIFY ENGINEER, IN WRITING, AT LEAST THIRTY (30) DAYS PRIOR TO ANY TERMINATION, SUSPENSION OR CHANGE OF ITS INSURANCE HEREUNDER.

22. THE ENGINEER OF RECORD AND BOHLER ARE NOT RESPONSIBLE FOR CONSTRUCTION METHODS, MEANS, TECHNIQUES OR PROCEDURES, GENERALLY OR FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES OR PROCEDURES FOR COMPLETION OF THE WORK DEPICTED BOTH ON THESE PLANS, AND FOR ANY CONFLICTS IN SCOPE AND REVISIONS THAT RESULT FROM SAME. THE CONTRACTOR IS FULLY AND SOLELY RESPONSIBLE FOR DETERMINING THE MEANS AND METHODS FOR COMPLETION OF THE WORK, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

23. NEITHER THE PROFESSIONAL ACTIVITIES OF BOHLER, NOR THE PRESENCE OF BOHLER AND/OR ITS PAST, PRESENT AND FUTURE OWNERS, OFFICERS, DIRECTORS, PARTNERS, SHAREHOLDERS, MEMBERS, PRINCIPALS, COMMISSIONERS, AGENTS, SERVANTS, EMPLOYEES, AFFILIATES, SUBSIDIARIES, AND RELATED ENTITIES, AND ITS SUBCONTRACTORS AND SUBCONSULTANTS AT A CONSTRUCTION/PROJECT SITE (HEREIN "BOHLER PARTIES") SHALL RELIEVE THE CONTRACTOR OF ANY AND FROM CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, OVERSEEING, SUPERINTENDING AND COORDINATING THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND COMPLIANCE WITH ALL HEALTH AND SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES WITH JURISDICTION OVER THE PROJECT AND/OR PROPERTY. BOHLER PARTIES HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER (OR ANY RESPONSIBILITY FOR) ANY CONSTRUCTION, THE CONTRACTOR OR ITS EMPLOYEES RELATING TO THEIR WORK AND ANY AND ALL HEALTH AND SAFETY PROGRAMS OR PROCEDURES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY. THE CONTRACTOR MUST INDEMNIFY, DEFEND, PROTECT AND HOLD HARMLESS BOHLER PARTIES FOR AND FROM ANY LIABILITY TO BOHLER PARTIES RESULTING FROM THE CONTRACTOR'S WORK, SERVICES AND/OR VIOLATIONS OF THIS NOTE, THESE NOTES OR ANY NOTES IN THE PLAN SET AND, FURTHER, THE CONTRACTOR MUST NAME BOHLER AS AN ADDITIONAL INSURED UNDER THE GENERAL CONTRACTOR'S POLICIES OF GENERAL LIABILITY INSURANCE AS DESCRIBED ABOVE.

24. WHEN IT IS CLEARLY AND SPECIFICALLY WITHIN BOHLER'S SCOPE OF SERVICES CONTRACT WITH THE OWNER/DEVELOPER, BOHLER WILL REVIEW OR TAKE OTHER APPROPRIATE ACTION ON THE CONTRACTOR SUBMITTALS, SUCH AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND OTHER DATA, WHICH THE CONTRACTOR IS REQUIRED TO SUBMIT, BUT ONLY FOR THE LIMITED PURPOSE OF EVALUATING CONFORMANCE WITH THE DESIGN INTENT AND THE INFORMATION SHOWN IN THE CONSTRUCTION CONTRACT DOCUMENTS. CONSTRUCTION MEANS AND METHODS AND/OR TECHNIQUES OR PROCEDURES, COORDINATION OF THE WORK WITH OTHER TRADES, AND CONSTRUCTION SAFETY PRECAUTIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND BOHLER HAS NO RESPONSIBILITY OR LIABILITY FOR SAME. BOHLER WILL PERFORM ITS SHOP DRAWING REVIEW WITH REASONABLE PROMPTNESS, AS CONDITIONS PERMIT. ANY DOCUMENT, DOCUMENTING BOHLER'S REVIEW OF A SPECIFIC ITEM OR LIMITED SCOPE, MUST NOT INDICATE THAT BOHLER HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. BOHLER IS NOT RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS THAT THE CONTRACTOR MUST, IN WRITING, PROMPTLY AND IMMEDIATELY BRING ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS TO BOHLER'S ATTENTION. BOHLER IS NOT REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED.

25. IF THE CONTRACTOR DEVIATES FROM THESE PLANS AND/OR SPECIFICATIONS, INCLUDING THE NOTES CONTAINED HEREIN, WITHOUT FIRST OBTAINING THE PRIOR WRITTEN AUTHORIZATION OF THE ENGINEER OF RECORD AND BOHLER FOR ALL DEVIATIONS WITHIN ENGINEER'S SCOPE, THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PAYMENT OF ALL COSTS INCURRED IN CORRECTING ANY WORK PERFORMED WHICH DEVIATES FROM THE PLANS, ALL FINES AND/OR PENALTIES ASSESSED WITH RESPECT THERETO AND ALL CONSTRUCTION DELAYS ASSOCIATED THEREWITH. THE CONTRACTOR IS RESPONSIBLE FOR AND MUST INDEMNIFY, PROTECT, AND HOLD HARMLESS THE ENGINEER OF RECORD AND BOHLER PARTIES TO THE FULLEST EXTENT PERMITTED UNDER THE LAW, FOR AND FROM ALL FEES, ATTORNEYS' FEES, DAMAGES, COSTS, JUDGMENTS, CLAIMS, INJURIES, PENALTIES AND THE LIKE RELATED TO SAME.

26. THE CONTRACTOR IS RESPONSIBLE FOR A MAINTAINING AND PROTECTING THE TRAFFIC CONTROL PLAN AND ELEMENTS IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REQUIREMENTS AFFECTING PUBLIC TRAVEL, EITHER ON OR OFF SITE, WITHIN THE RIGHT OF WAY OR ON SITE. THE COST FOR THIS ITEM MUST BE INCLUDED IN THE CONTRACTOR'S PRICE AND IS THE CONTRACTOR'S SOLE RESPONSIBILITY.

27. OWNER MUST MAINTAIN AND PRESERVE ALL PHYSICAL SITE FEATURES AND DESIGN FEATURES DEPICTED ON THE PLANS AND RELATED DOCUMENTS IN STRICT ACCORDANCE WITH THE APPROVED PLAN(S) AND DESIGN; AND, FURTHER, THE ENGINEER OF RECORD AND BOHLER ARE NOT RESPONSIBLE FOR ANY FAILURE TO SO MAINTAIN OR PRESERVE SITE AND/OR DESIGN FEATURES. IF OWNER FAILS TO MAINTAIN AND/OR PRESERVE ALL PHYSICAL SITE FEATURES AND/OR DESIGN FEATURES DEPICTED ON THE PLANS AND RELATED DOCUMENTS, OWNER AGREES TO INDEMNIFY AND HOLD THE ENGINEER OF RECORD AND BOHLER PARTIES HARMLESS FOR ALL INJURIES, DAMAGES AND COSTS THAT ENGINEER OF RECORD AND BOHLER INCUR AS A RESULT OF SAID FAILURE.

28. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION ACTIVITIES AND MATERIALS COMPLY WITH AND CONFORM TO APPLICABLE FEDERAL, STATE AND LOCAL RULES AND REGULATIONS, LAWS, ORDINANCES, AND CODES, AND ALL APPLICABLE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, (29 U.S.C. 651 ET SEQ.) AS AMENDED, AND ANY MODIFICATIONS, AMENDMENTS OR REVISIONS TO SAME.

29. THE CONTRACTOR MUST STRICTLY COMPLY WITH THE LATEST AND CURRENT OSHA STANDARDS AND REGULATIONS, AND/OR ANY OTHER AGENCY WITH JURISDICTION OVER EXCAVATION AND TRENCHING PROCEDURES. ENGINEER OF RECORD AND BOHLER HAS NO RESPONSIBILITY FOR OR AS RELATED TO EXCAVATION AND TRENCHING PROCEDURES AND WORK.

30. THE CONTRACTOR AND THE OWNER MUST INSTALL ALL ELEMENTS AND COMPONENTS IN STRICT COMPLIANCE WITH AND IN ACCORDANCE WITH MANUFACTURER'S STANDARDS AND RECOMMENDED INSTALLATION CRITERIA AND SPECIFICATIONS. IF THE CONTRACTOR AND/OR OWNER FAIL TO DO SO, THEY AGREE TO JOINTLY, INDEPENDENTLY, SEPARATELY, COLLECTIVELY, AND SEVERALLY INDEMNIFY, DEFEND, PROTECT AND HOLD ENGINEER OF RECORD AND BOHLER PARTIES HARMLESS FOR ALL INJURIES AND DAMAGES THAT ENGINEER SUFFERS AND COSTS THAT ENGINEER INCURS AS A RESULT OF SAID FAILURE.

31. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN AN ON-SITE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN COMPLIANCE WITH THE ENVIRONMENTAL PROTECTION AGENCY (EPA) REQUIREMENTS OR LOCAL GOVERNING AGENCY FOR SITES WHERE ONE (1) ACRE OR MORE IS DISTURBED BY CONSTRUCTION ACTIVITIES (UNLESS THE LOCAL JURISDICTION REQUIRES A DIFFERENT THRESHOLD). THE CONTRACTOR MUST ENSURE THAT ALL ACTIVITIES, INCLUDING THOSE OF ALL SUBCONTRACTORS, ARE IN COMPLIANCE WITH THE SWPPP, INCLUDING BUT NOT LIMITED TO LOGGING ACTIVITIES (MINIMUM ONCE PER WEEK AND AFTER RAINFALL EVENTS) AND CORRECTIVE MEASURES, AS APPROPRIATE AND FURTHER, THE CONTRACTOR IS SOLELY AND COMPLETELY RESPONSIBLE FOR FAILING TO DO SO.

32. AS CONTAINED IN THESE DRAWINGS AND ASSOCIATED DOCUMENTS PREPARED BY THE ENGINEER OF RECORD AND BOHLER, THE USE OF THE WORDS 'CERTIFY' OR 'CERTIFICATION' CONSTITUTE(S) AN EXPRESSION ONLY OF PROFESSIONAL OPINION REGARDING THE INFORMATION WHICH IS THE SUBJECT OF THE ENGINEER OF RECORD'S AND BOHLER KNOWLEDGE OR BELIEF AND IN ACCORDANCE WITH COMMON AND ACCEPTED PROCEDURE CONSISTENT WITH THE APPLICABLE STANDARDS OF PRACTICE, AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE OF ANY NATURE OR TYPE, EITHER EXPRESSED OR IMPLIED, UNDER ANY CIRCUMSTANCES.

GENERAL DEMOLITION NOTES

1. THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES, IN THEIR ENTIRETY. THE CONTRACTOR MUST BE FAMILIAR WITH AND ACKNOWLEDGE FAMILIARITY WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES.

2. THE CONTRACTOR MUST CONDUCT DEMOLITION/REMOVALS ACTIVITIES IN SUCH A MANNER AS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, SIDEWALKS, WALKWAYS, AND ALL OTHER ADJACENT FACILITIES. THE CONTRACTOR MUST OBTAIN ALL APPLICABLE PERMITS FROM THE APPROPRIATE GOVERNMENTAL AUTHORITY(IES) PRIOR TO THE COMMENCEMENT OF ANY ROAD OPENING OR DEMOLITION ACTIVITIES IN OR ADJACENT TO THE RIGHT-OF-WAY.

3. WHEN DEMOLITION-RELATED ACTIVITIES IMPACT ROADWAYS AND/OR ROADWAY RIGHT-OF-WAY, THE CONTRACTOR MUST PROVIDE TRAFFIC CONTROL AND GENERALLY ACCEPTED SAFE PRACTICES IN ACCORDANCE WITH THE CURRENT FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), AND THE FEDERAL, STATE, AND LOCAL REGULATIONS.

4. THE DEMOLITION (AND/OR REMOVALS) PLAN IS INTENDED TO PROVIDE GENERAL INFORMATION AND TO IDENTIFY ONLY CONDITIONS REGARDING ITEMS TO BE DEMOLISHED, REMOVED, AND RETAINED.

4.1. THE CONTRACTOR MUST ALSO REVIEW ALL CONSTRUCTION DOCUMENTS AND INCLUDE WITHIN THE DEMOLITION ACTIVITIES ALL INCIDENTAL WORK NECESSARY FOR THE CONSTRUCTION OF THE NEW SITE IMPROVEMENTS.

4.2. THIS PLAN IS NOT INTENDED TO AND DOES NOT PROVIDE DIRECTION REGARDING THE MEANS, METHODS, SEQUENCING, TECHNIQUES AND PROCEDURES TO BE EMPLOYED TO ACCOMPLISH THE WORK. ALL MEANS, METHODS, SEQUENCING, TECHNIQUES AND PROCEDURES TO BE USED MUST BE IN STRICT ACCORDANCE AND CONFORMANCE WITH ALL STATE, FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR MUST COMPLY WITH ALL OSHA AND OTHER SAFETY PRECAUTIONS NECESSARY TO PROVIDE A SAFE WORK SITE FOR THE CONTRACTOR AND THE PUBLIC.

5. THE CONTRACTOR MUST PROVIDE ALL "METHODS AND MEANS" NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF EXISTING STRUCTURES, AND ANY OTHER IMPROVEMENTS THAT ARE REMAINING ON OR OFF SITE. THE CONTRACTOR, AT THE CONTRACTOR'S SOLE COST, MUST REPAIR ALL DAMAGE TO ALL ITEMS AND FEATURES THAT ARE TO REMAIN. CONTRACTOR MUST USE NEW MATERIAL FOR ALL REPAIRS. CONTRACTOR'S REPAIRS MUST INCLUDE THE RESTORATION OF ALL ITEMS AND FEATURES REPAIRED TO THEIR PRE-DEMOLITION CONDITION, OR BETTER. CONTRACTOR MUST PERFORM ALL REPAIRS AT THE CONTRACTOR'S SOLE EXPENSE.

6. ENGINEER OF RECORD AND BOHLER ARE NOT RESPONSIBLE FOR JOB SITE SAFETY OR SUPERVISION. THE CONTRACTOR MUST PROCEED WITH THE DEMOLITION IN A SYSTEMATIC AND SAFE MANNER, COMPLYING WITH ALL OSHA REQUIREMENTS, TO ENSURE PUBLIC AND CONTRACTOR SAFETY AND SAFETY TO ALL PROPERTY ON THE SITE OR ADJACENT OR NEAR TO THE SAME.

7. THE CONTRACTOR IS RESPONSIBLE FOR JOB SITE SAFETY, WHICH MUST INCLUDE, BUT IS NOT LIMITED TO, THE INSTALLATION AND MAINTENANCE OF BARRIERS, FENCING, OTHER APPROPRIATE AND/OR NECESSARY SAFETY FEATURES AND ITEMS NECESSARY TO PROTECT THE PUBLIC FROM AREAS OF CONSTRUCTION AND CONSTRUCTION ACTIVITIES. THE CONTRACTOR MUST SAFEGUARD THE SITE AS NECESSARY TO PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE ENTRY OF ALL UNAUTHORIZED PERSONS AT ANY TIME, TO OR NEAR THE DEMOLITION AREA.

8. PRIOR TO THE COMMENCEMENT OF ANY SITE ACTIVITY AND ANY DEMOLITION ACTIVITY, THE CONTRACTOR MUST, IN WRITING, RAISE ANY QUESTIONS CONCERNING THE ACCURACY OR INTEGRITY OF THESE PLANS, AS CONCERNS ANY QUESTIONS REGARDING THE APPLICABLE SAFETY STANDARDS, AND/OR THE SAFETY OF THE CONTRACTOR AND/OR THIRD PARTIES IN PERFORMING THE WORK ON THIS PROJECT. ANY SUCH CONCERNS MUST BE CONVEYED TO THE ENGINEER OF RECORD AND BOHLER , IN WRITING AND MUST BE ADDRESSED IMMEDIATELY. NOTIFY OWNER, ENGINEER OF RECORD AND BY BOHLER, IN WRITING. ALL DEMOLITION ACTIVITIES MUST BE PERFORMED IN ACCORD


Now or Formerly
UNITED STATES OF AMERICA
T-1949
BK 6126, PAGE 729
PARCEL ID 224-045
Now or Formerly
GRAY WALL REALTY TRUST
BOOK 30959, PAGE 532
PARCEL ID 20-0082
Now or Formerly
GRAY WALL REALTY TRUST
BOOK 756, PAGE 137
PARCEL ID 26-00064
(REGISTERED LAND)
Now or Formerly
JOHN BOCCI
BOOK 913, PAGE 50
PARCEL ID 26-0010A
(REGISTERED LAND)
Now or Formerly
MAPLEGATE REALTY TRUST
BOOK 9390, PAGE 162
PARCEL ID 26-0009
Now or Formerly
LMP PROPERTIES, LLC
BOOK 32050, PAGE 88
PARCEL ID 26-0010A
Now or Formerly
LMP PROPERTIES, LLC
BOOK 32050, PAGE 88
PARCEL ID 26-0010B
Now or Formerly
LMP PROPERTIES, LLC
BOOK 32050, PAGE 98
PARCEL ID 32-0007
Now or Formerly
LMP PROPERTIES, LLC
BOOK 32050, PAGE 98
PARCEL ID 239-011
Now or Formerly
NEW ENGLAND POWER COMPANY
BOOK 3855, PAGE 390
PARCEL ID 32-0008
Now or Formerly
MAPLEGATE REALTY TRUST
BOOK 8626, PAGE 39
PARCEL ID 32-0009
Now or Formerly
SCOTT A. & KAREN L. RHODES
BOOK 22974, PAGE 279
PARCEL ID 32-0010
Now or Formerly
TOWN OF FRANKLIN
(PLAN 318 OF 1997)
(NO LEGAL REFERENCE)
U.S.A. T-1930-E
PARCEL ID 237-027
Now or Formerly
UNITED STATES OF AMERICA
BK 5736, PAGE 732
PARCEL ID 237-026
Now or Formerly
UNITED STATES OF AMERICA
T-1949
BOOK 5948, PAGE 261
PARCEL ID 239-009
Now or Formerly
UNITED STATES OF AMERICA
BK 5912, PAGE 301
PARCEL ID 239-008
Now or Formerly
UNITED STATES OF AMERICA
(NO LEGAL REFERENCE)
PARCEL ID 254-018
Now or Formerly
TOWN OF FRANKLIN
(PLAN 318 OF 1997)
(LEGAL REFERENCE NOT FOUND)
Now or Formerly
UNITED STATES OF AMERICA
BOOK 29245, PAGE 529
PARCEL ID 254-019
Now or Formerly
UNITED STATES OF AMERICA
BOOK 5784, PAGE 18
PARCEL ID 254-017
Now or Formerly
UNITED STATES OF AMERICA
BOOK 5784, PAGE 351
PARCEL ID 254-016
MAPLE STREET
(1939 COUNTY LAYOUT)
(PUBLIC- 50' WIDE)
INTERSTATE ROUTE 495
(S.H.L.O.-5587 & S.H.L.O.-5511)
(PUBLIC- 250' WIDE)
PLAN A
PLAN B
PLAN C
PLAN D
PLAN E
PLAN F
PROP. LIMIT OF WORK (TYP.)
PROP. LIMIT OF WORK FOR SITE RESTORATION ACTIVITIES ONLY (TYP.)
APPROX. LIMIT OF ZONE II
ZONE II
TOWN OF BELLINGHAM / TOWN OF FRANKLIN
325' WIDE NEW ENGLAND POWER COMPANY EASEMENT
PARCEL ID 32-0008
100' BUFFER (TYP.)
PARCEL ID 237-027
PARCEL ID 237-026
PARCEL ID 239-009
PARCEL ID 239-008
PARCEL ID 254-018
PARCEL ID 254-019
PARCEL ID 254-017
PARCEL ID 254-016
PARCEL ID 32-0007
PARCEL ID 239-011
PARCEL ID 32-0009
PARCEL ID 32-0010
PARCEL ID 32-0008
PARCEL ID 26-0010A
PARCEL ID 26-0010B
PARCEL ID 26-0009
PARCEL ID 26-0064
PARCEL ID 20-0082
PARCEL ID 224-045
PARCEL ID 237-026



BOHLER
SITE CIVIL AND CONSULTING ENGINEERING
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4	8/01/2023	PARCEL AREA REFERENCES	AP / GD

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PROJECT NO.: W201257
DRAWN BY: EVD / CMC / OCR
CHECKED BY: GD
DATE: 04/13/2023
CAD I.D.: W201257-DEMO-4A

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR

NEXTGRID MESCALBEAN LLC

PROPOSED SOLAR FARM

LOTS INCLUDED (PARCEL #):239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009
160 MAPLE STREET,
TOWN OF BELLINGHAM & FRANKLIN, NORFOLK COUNTY, MASSACHUSETTS

BOHLER
352 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
Phone: (508) 480-9900
www.BohlerEngineering.com

JOHN KUCEWICZ — COMMONWEALTH OF MASSACHUSETTS — JOHN KUCEWICZ — CIVIL — No. 41530 — REGISTERED PROFESSIONAL ENGINEER
MASSACHUSETTS No. 41530
NEW HAMPSHIRE No. 19476
CONNECTICUT No. 29177
RHODE ISLAND No. 9616
MAINE LICENSE No. 12551

SHEET TITLE:

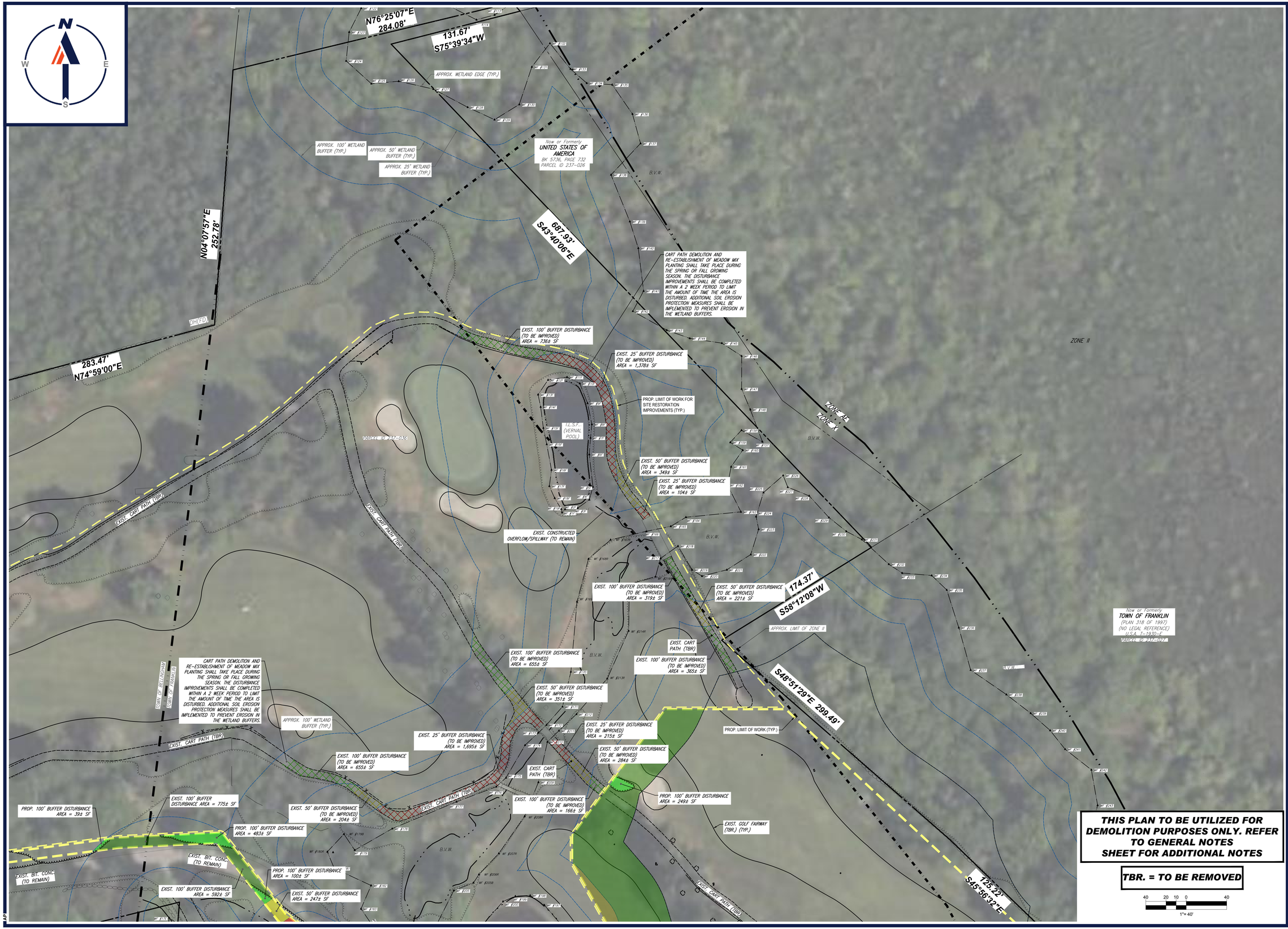
DEMOLITION PLAN A

SHEET NUMBER:

C-202

REVISION 4 - 8/01/2023

P:\SW\W201257\CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\W201257-DEMO-4A.----LAYOUT: C-202-DEMO A



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4	8/01/2023	PARCEL AREA REFERENCES	AP / GD

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DRAWN BY: EVD / CMC / OCR
CHECKED BY: GD
DATE: 04/13/2023
CAD I.D.: W201257-DEMO-4A

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR

NEXTGRID MESCALBEAN LLC

PROPOSED SOLAR FARM

LOTS INCLUDED (PARCEL #):239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009
160 MAPLE STREET,
TOWN OF BELLINGHAM & FRANKLIN, NORFOLK COUNTY, MASSACHUSETTS

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JOHN KUCHERICH — COMMONWEALTH OF MASSACHUSETTS — JOHN KUCHERICH — CIVIL — No. 41530 — REGISTERED PROFESSIONAL ENGINEER
ALSO REGISTERED IN: NEW HAMPSHIRE No. 15539; NEW YORK No. 076376; CONNECTICUT No. 28177; RHODE ISLAND No. 06618; MAINE LICENSE No. 12553

SHEET TITLE:

DEMOLITION PLAN B

SHEET NUMBER:

C-203

REVISION 4 - 8/01/2023

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AP



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PROPOSED SITE PLAN DOCUMENTS

FOR

NEXTGRID MESCALBEAN LLC

PROPOSED SOLAR FARM

LOTS INCLUDED (PARCEL #):239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009
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CONNECTICUT LICENSE No. 29577
RHODE ISLAND LICENSE No. 9616
MAINE LICENSE No. 12553

SHEET TITLE:

DEMOLITION PLAN C

SHEET NUMBER:

C-204

REVISION 4 - 8/01/2023

P:\2021\257\CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\W201257-DEMO-4A.---3-LAYOUT: C-204-DEMO C

N
W
E
S

S45°56'32"E
125.22'
S52°04'31"E
32.35'
S45°08'16"E
235.21'
N44°44'39"E
30.0'
N44°45'21"W
345.17'
< 730'± ALONG CL OF DITCH >
S60°36'08"E
466.01'
N49°05'41"E
155.11'
721.03'
S42°58'30"E
(TIE LINE)
N85°22'58"W
41.32'
S70°24'27"W
298.98'

PARCEL ID 239-010

EXIST. 50' BUFFER DISTURBANCE AREA = 295± SF

EXIST. 100' BUFFER DISTURBANCE AREA = 8,490± SF

EXIST. CART PATH (TBR)

EXIST. CLUB HOUSE (TBR)

EXIST. BIT. CONC. (TBR)

CART PATH

EXIST. 50' BUFFER DISTURBANCE AREA = 601± SF

EXIST. CART PATH (TBR)

EXIST. 100' BUFFER DISTURBANCE AREA = 2,008± SF

EXIST. 50' BUFFER DISTURBANCE AREA = 709± SF

EXIST. WETLAND TO BE FILLED AREA = 307± SF

EXIST. CART PATH (TO REMAIN)

EXIST. 100' BUFFER DISTURBANCE AREA = 16,995± SF

PROP. 50' BUFFER DISTURBANCE AREA = 1,082± SF

PROP. 100' BUFFER DISTURBANCE AREA = 3,104± SF

EXIST. 50' BUFFER DISTURBANCE AREA = 1,286± SF

EXIST. 100' BUFFER DISTURBANCE AREA = 624± SF

CART PATH DEMOLITION AND RE-ESTABLISHMENT OF MEADOW MIX PLANTING SHALL TAKE PLACE DURING THE SPRING OR FALL GROWING SEASON. THE DISTURBANCE IMPROVEMENTS SHALL BE COMPLETED WITHIN A 2 WEEK PERIOD TO LIMIT THE AMOUNT OF TIME THE AREA IS DISTURBED. ADDITIONAL SOIL EROSION PROTECTION MEASURES SHALL BE IMPLEMENTED TO PREVENT EROSION IN THE WETLAND BUFFERS.

EXIST. 50' BUFFER DISTURBANCE AREA = 34± SF

APPROX. WETLAND EDGE (TYP.)

APPROX. 25' WETLAND BUFFER (TYP.)

APPROX. 50' WETLAND BUFFER (TYP.)

APPROX. 100' WETLAND BUFFER (TYP.)

Now or Formerly
UNITED STATES OF AMERICA
T-1949
BOOK 5948, PAGE 261

ZONE A
ZONE I

PARCEL ID 239-009

EXIST. 25' BUFFER DISTURBANCE AREA = 375± SF

PROP. 25' BUFFER DISTURBANCE AREA = 14± SF

EXIST. 25' BUFFER DISTURBANCE AREA = 332± SF

EXIST. CART PATH (TBR)

EXIST. 50' BUFFER DISTURBANCE AREA = 1,069± SF

PROP. 100' BUFFER DISTURBANCE AREA = 1,003± SF

EXIST. 100' BUFFER DISTURBANCE AREA = 17,388± SF

APPROX. WETLAND EDGE (TYP.)

APPROX. 25' WETLAND BUFFER (TYP.)

APPROX. 50' WETLAND BUFFER (TYP.)

APPROX. 100' WETLAND BUFFER (TYP.)

EXIST. CART PATH (TBR)

EXIST. 100' BUFFER DISTURBANCE AREA = 4,976± SF

EXIST. 50' BUFFER DISTURBANCE AREA = 213± SF

PROP. 100' BUFFER DISTURBANCE AREA = 7,321± SF

EXIST. 50' BUFFER DISTURBANCE AREA = 447± SF

APPROX. LIMIT OF ZONE II

PROP. 50' BUFFER DISTURBANCE AREA = 716± SF

PROP. 100' BUFFER DISTURBANCE AREA = 1,555± SF

EXIST. 100' BUFFER DISTURBANCE AREA = 10,154± SF

APPROX. WETLAND EDGE (TYP.)

ZONE II

THIS PLAN TO BE UTILIZED FOR DEMOLITION PURPOSES ONLY. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL NOTES

TBR. = TO BE REMOVED

40 20 10 0 40
1"= 40'

P:\2019\01257\CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\W201257-DEMO-4A.....LAYOUT C-205-DEMO D
AP

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PROJECT No.:	W201257
DRAWN BY:	EVD / CMC / OCR
CHECKED BY:	GD
DATE:	04/13/2023
CAD I.D.:	W201257-DEMO-4A

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR

NEXTGRID MESCALBEAN LLC

PROPOSED
SOLAR FARM

LOTS INCLUDED (PARCEL #):239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009
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No. 41530
REGISTERED PROFESSIONAL ENGINEER
(508) 480-9900 x 41530
NEW HAMPSHIRE LICENSE No. 16476
CONNECTICUT LICENSE No. PEC.0026177
RHODE ISLAND LICENSE No. 04516
MAINE LICENSE No. 12553

SHEET TITLE:

DEMOLITION PLAN D

SHEET NUMBER:

C-205

REVISION 4 - 8/01/2023



THIS PLAN TO BE UTILIZED FOR DEMOLITION PURPOSES ONLY. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL NOTES

TBR. = TO BE REMOVED

40 20 10 0 40

1"= 40'

P:\SW\2021\257\CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\W201257-DEMO-4A.----LAYOUT C-206-DEMO E

API

BOHLER

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PROPOSED SITE PLAN DOCUMENTS

FOR

NEXTGRID MESCALBEAN LLC

PROPOSED SOLAR FARM

LOTS INCLUDED (PARCEL #):239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009
160 MAPLE STREET,
TOWN OF BELLINGHAM & FRANKLIN, NORFOLK COUNTY, MASSACHUSETTS

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SOUTHBOROUGH, MA 01772
Phone: (508) 480-9900
www.BohlerEngineering.com

JOHN KUCEWICZ
COMMONWEALTH OF MASSACHUSETTS
CIVIL
No. 41530
REGISTERED PROFESSIONAL ENGINEER

MASSACHUSETTS No. 41530
NEW HAMPSHIRE No. 19476
CONNECTICUT No. 29177
RHODE ISLAND No. 9616
MAINE LICENSE No. 12553

SHEET TITLE:

DEMOLITION PLAN E

SHEET NUMBER:

C-206

REVISION 4 - 8/01/2023

N
W
E
S

APPROX. LIMIT OF ZONE II

PROP. 50' BUFFER DISTURBANCE AREA = 716± SF

PROP. 100' BUFFER DISTURBANCE AREA = 1,555± SF

EXIST. 100' BUFFER DISTURBANCE AREA = 10,154± SF

EXIST. 50' BUFFER DISTURBANCE AREA = 447± SF

APPROX. WETLAND EDGE (TYP.)

APPROX. 25' WETLAND BUFFER (TYP.)

APPROX. 50' WETLAND BUFFER (TYP.)

APPROX. 100' WETLAND BUFFER (TYP.)

EXIST. CART PATH (TBR.)

EXIST. TREELINE (TBR.) (TYP.)

EXIST. GOLF FAIRWAY (TBR.) (TYP.)

PARCEL ID 239-010

EXIST. 100' BUFFER DISTURBANCE AREA = 1,443± SF

PROP. 100' BUFFER DISTURBANCE AREA = 97± SF

PROP. LIMIT OF WORK (TYP.)

EXIST. CART PATH TO REMAIN

S25°52'24"E
587.21'

S57°33'51"E
89.76'

322.08'
S56°02'25"W

S43°26'35"E
168.30'

Now or Formerly
TOWN OF FRANKLIN
(PLAN 318 OF 1997)
(LEGAL REFERENCE NOT FOUND)

MAIN PATH

1.1± S.F. (VERNAL POOL)

THIS PLAN TO BE UTILIZED FOR DEMOLITION PURPOSES ONLY. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL NOTES

TBR. = TO BE REMOVED

40 20 10 0 40
1"= 40'

P:\28\WV201257\CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\W201257-DEMO-4A-----LAYOUT: C-207-DEMO F

AP

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3	7/19/2023	PER SURVEY UPDATES	AP / GD
4	8/01/2023	PARCEL AREA REFERENCES	AP / GD

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PROJECT No.:	W201257
DRAWN BY:	EVD / CMC / OCR
CHECKED BY:	GD
DATE:	04/13/2023
CAD I.D.:	W201257-DEMO-4A

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR

NEXTGRID MESCALBEAN LLC

PROPOSED SOLAR FARM

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NEW HAMPSHIRE CERT. No. 19476
CONNECTICUT CERT. No. 28127
RHODE ISLAND LICENSE No. 9616
MAINE LICENSE No. 12553

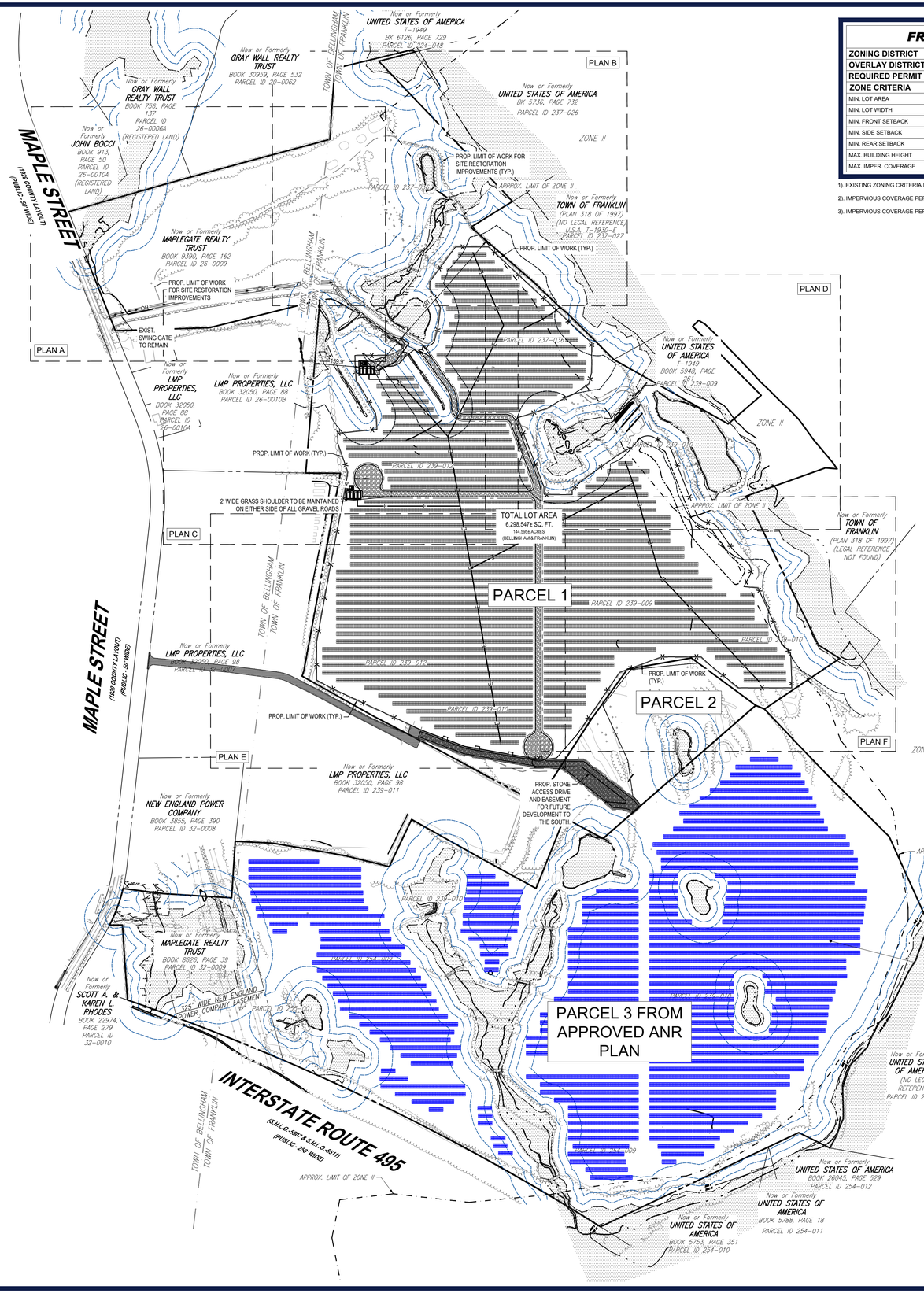
SHEET TITLE:

DEMOLITION PLAN F

SHEET NUMBER:

C-207

REVISION 4 - 8/01/2023



FRANKLIN ZONING ANALYSIS TABLE

N/A - NOT APPLICABLE
N/S - NOT SPECIFIED
(V) - VARIANCE REQUESTED
(W) - WAIVER REQUESTED
(E) - EXIST. NON-CONFORMANCE

ZONING DISTRICT	INDUSTRIAL				
OVERLAY DISTRICT	NONE				
REQUIRED PERMIT	TBD				
ZONE CRITERIA	**REQUIRED**	**EXISTING[1]**	**PROPOSED PARCEL 1**	**PROPOSED PARCEL 2**	**PROPOSED PARCEL 3**
MIN. LOT AREA	0.9 ACRES	±129.97 ACRES	± 62.96 ACRES	± 5.61 ACRES	± 61.40 ACRES
MIN. LOT WIDTH	157.5'	422.7'	422.7'	N/A	TBD (BY OTHERS)
MIN. FRONT SETBACK	40'	441.0'	N/A	N/A	N/A
MIN. SIDE SETBACK	30'	85.7'	31.9'	N/A	TBD (BY OTHERS)
MIN. REAR SETBACK	30'	241.0'	597.7'	N/A	TBD (BY OTHERS)
MAX. BUILDING HEIGHT	3 STORIES	<30'	N/A	N/A	N/A
MAX. IMPER. COVERAGE	80 %	<7.4% [2]	2.9 % [3]	7.1 % [3]	TBD (BY OTHERS)

1). EXISTING ZONING CRITERIA INCLUDES PARCELS D,E,F,G,H,I.

2). IMPERVIOUS COVERAGE PERCENTAGE INCLUDES 2.03 ACRES OF GRAVEL.

3). IMPERVIOUS COVERAGE PERCENTAGE INCLUDES 0.4 ACRES OF GRAVEL

BELLINGHAM ZONING ANALYSIS TABLE

N/A - NOT APPLICABLE
N/S - NOT SPECIFIED
(V) - VARIANCE REQUESTED
(W) - WAIVER REQUESTED
(E) - EXIST. NON-CONFORMANCE

ZONING DISTRICT	SUBURBAN		
OVERLAY DISTRICT	NONE		
REQUIRED PERMIT	TBD		
ZONE CRITERIA	**REQUIRED**	**EXISTING**	**PROPOSED PARCEL 26-009**
MIN. LOT AREA	0.92 ACRES	± 9.8 ACRES	± 9.8 ACRES
MIN. LOT FRONTAGE	150.0'	±454.1'	±454.1'
MIN. FRONT SETBACK	30'	N/A	N/A
MIN. SIDE SETBACK	15'	N/A	N/A
MIN. REAR SETBACK	20'	N/A	N/A
MAX. BUILDING HEIGHT	35'	N/A	N/A
MAX. IMPER. COVERAGE	N/A	±6.4%	±3.3%

14,994.72 - KW DC
4,999 - KW AC NORMAL
4,999 - KW AC MAXIMUM
PHOTOVOLTAIC POWER SYSTEM
W/ 5,000 kW / 31,000 kWH DC-COUPLED STORAGE

THE PURPOSE OF THE OVERALL PLAN SHEET IS TO BE UTILIZED AS A SITE KEY MAP, TO PROVIDE SITE FEATURE LOCATIONS ONLY. PLEASE REFER TO EACH INDIVIDUAL SHEET FOR MORE INFORMATION.

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200 100 50 0 200
1"= 200'

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PROJECT No.: W201257
DRAWN BY: EVD / CMC / OCR
CHECKED BY: GD
DATE: 04/13/2023
CAD I.D.: W201257-SPPD-4A

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR

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PROPOSED SOLAR FARM

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JOHN C. KUCEWICZ
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REGISTERED PROFESSIONAL ENGINEER
MASSACHUSETTS No. 41530
NEW HAMPSHIRE No. 19476
CONNECTICUT No. PEN.0028177
RHODE ISLAND No. 14416
MAINE LICENSE No. 12353

SHEET TITLE:

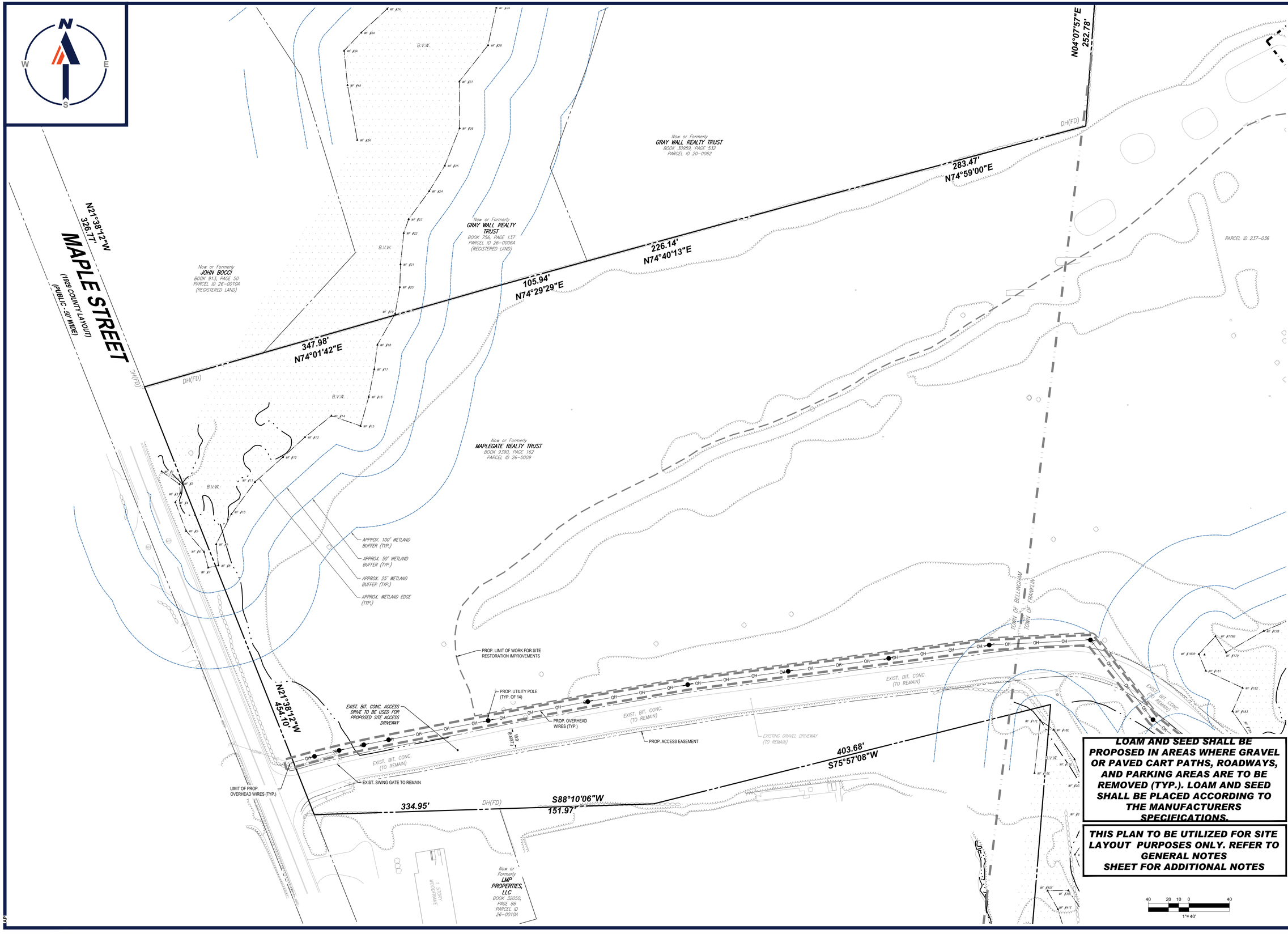
OVERALL SITE LAYOUT PLAN

SHEET NUMBER:

C-301

REVISION 4 - 8/01/2023

P:\2019\W201257\CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\W201257-SPPD-4A-----LAYOUT(C-301-OVERALL SITE



P:\SW\W201257\CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\W201257-SPPD-4A---LAYOUT C-302-SITE A

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CHECKED BY:	GD
DATE:	04/13/2023
CAD I.D.:	W201257-SPPD-4A

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR

NEXTGRID MESCALBEAN LLC

PROPOSED SOLAR FARM

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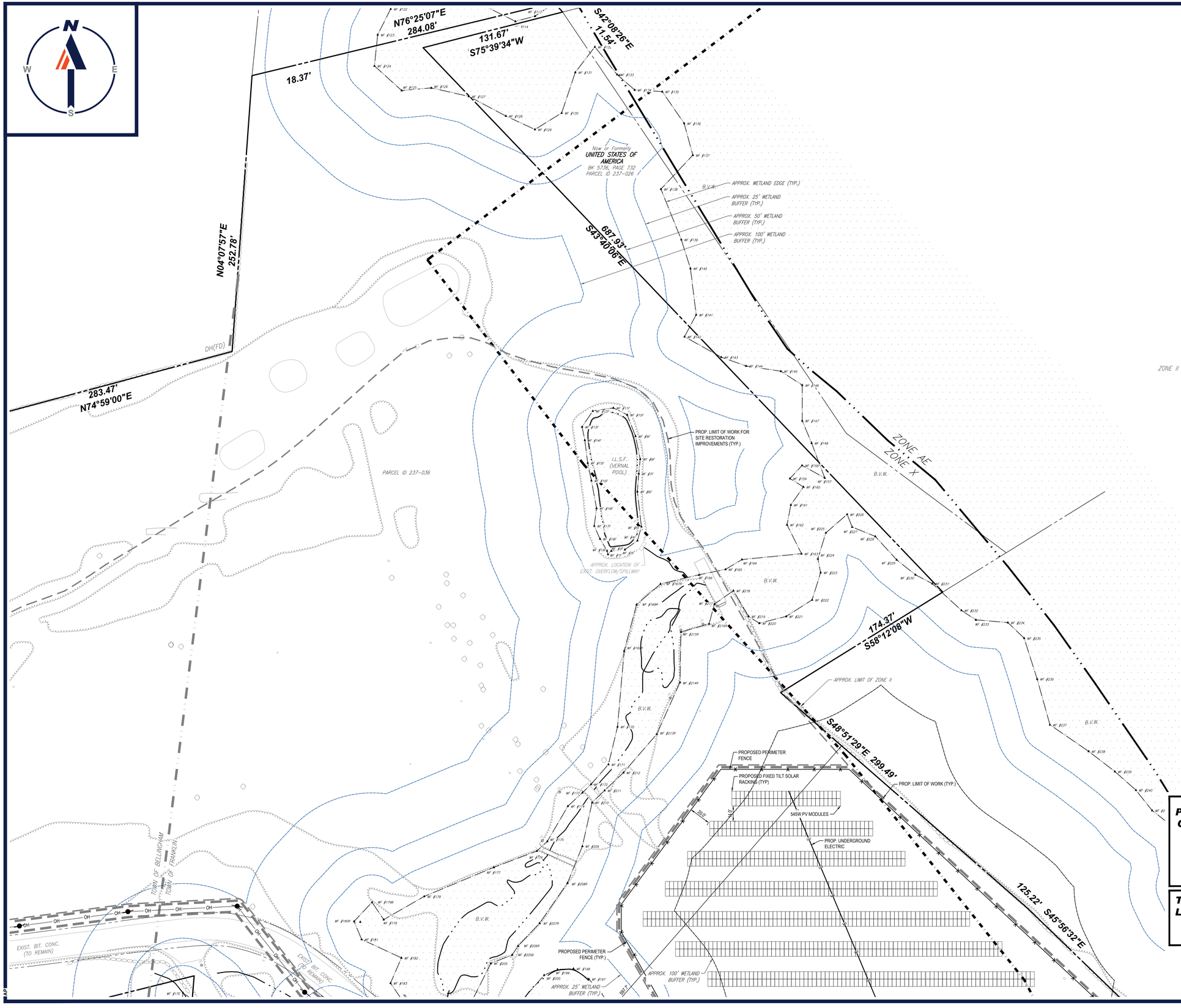
SHEET TITLE:

SITE LAYOUT PLAN A

SHEET NUMBER:

C-302

REVISION 4 - 8/01/2023



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40 20 10 0 40
1" = 40'

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AP

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PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR

NEXTGRID MESCALBEAN LLC

PROPOSED SOLAR FARM

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JOHN KUCEWICZ CIVIL No. 41530 REGISTERED PROFESSIONAL ENGINEER
COMMONWEALTH OF MASSACHUSETTS

SHEET TITLE:

SITE LAYOUT PLAN B

SHEET NUMBER:

C-303

REVISION 4 - 8/01/2023

N
W
E
S

EXIST. BIT. CONC. (TO REMAIN)

EXISTING GRAVEL DRIVEWAY (TO REMAIN)

PROP. ACCESS EASEMENT

403.68'
S75°57'08"W

S88°10'06"W
151.97'

Now or Formerly
LMP PROPERTIES, LLC
BOOK 32050, PAGE 88
PARCEL ID 26-0010A

Now or Formerly
LMP PROPERTIES, LLC
BOOK 32050, PAGE 88
PARCEL ID 26-0010B

591.0' (DISTANCE TO CLOSEST RESIDENTIAL PARCEL)

564.1' (DISTANCE TO CLOSEST RESIDENTIAL PARCEL)

696' ± (DISTANCE CLOSEST RESIDENTIAL STRUCTURE)

616.23'
N04°40'53"E

N89°28'44"W
115.74'

N89°28'44"W
123.08'

B.V.W.

APPROX. WETLAND EDGE (TYP.)

APPROX. 25' WETLAND BUFFER (TYP.)

APPROX. 50' WETLAND BUFFER (TYP.)

APPROX. 100' WETLAND BUFFER (TYP.)

B.V.W.
VERNAL POOL

EXIST. BIT. CONC. ACCESS DRIVE TO BE USED FOR PROPOSED SITE ACCESS DRIVEWAY

EXIST. GRAVEL (TO REMAIN)

PROPOSED PERIMETER FENCE (TYP.)

PROP. UNDERGROUND ELECTRIC

PROP. MODIFICATION TO EXISTING GRAVEL LIMITS TO ELIMINATE WETLAND IMPACT.

LIMIT OF PROP. OVERHEAD WIRES (TYP.)

PROPOSED 24' WIDE DOUBLE SWING GATE WITH KNOX BOX.

PROP. CLOSURE OF EXIST. BIT. CONC. ACCESS DRIVE.

PROP. LIMIT OF NEW GRAVEL

PROPOSED EPC CAB1000/AC-630 INVERTERS, EPC CAD1000/DC.1-1000-1500 DC-DC CONVERTER, & 2500KVA OIL-FILLED TRANSFORMERS ON CONC. PAD

PROPOSED 12' FREESTANDING CMU WALL

LIMIT OF PROP. GRAVEL. PROP. DRIVEWAY TO TIE INTO EXISTING BIT. CONC. ACCESS DRIVE.

PROPOSED FIXED TILT SOLAR RACKING (TYP)

545W PV MODULES

PROPOSED 20' WIDE GRAVEL ACCESS ROAD

PROP. UNDERGROUND ELECTRIC

PROP. ACCESS EASEMENT

PROP. UNDERGROUND ELECTRIC

PROPOSED PERIMETER FENCE (TYP.)

PROP. LIMIT OF WORK (TYP.)

SOLAR PANEL (TYP)

PROPOSED EPC CAB1000/AC-630 INVERTERS, EPC CAD1000/DC.1-1000-1500 DC-DC CONVERTER, & 2500KVA OIL-FILLED TRANSFORMERS ON CONC. PAD

PROPOSED 12' FREESTANDING CMU WALL

PROP. UNDERGROUND ELECTRIC

PARCEL ID 239-012

50' 2' WIDE GRASS SHOULDER TO BE MAINTAINED ON EITHER SIDE OF ALL GRAVEL ROADS

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40 20 10 0 40
1"= 40'

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PROJECT:

PROPOSED SITE PLAN DOCUMENTS

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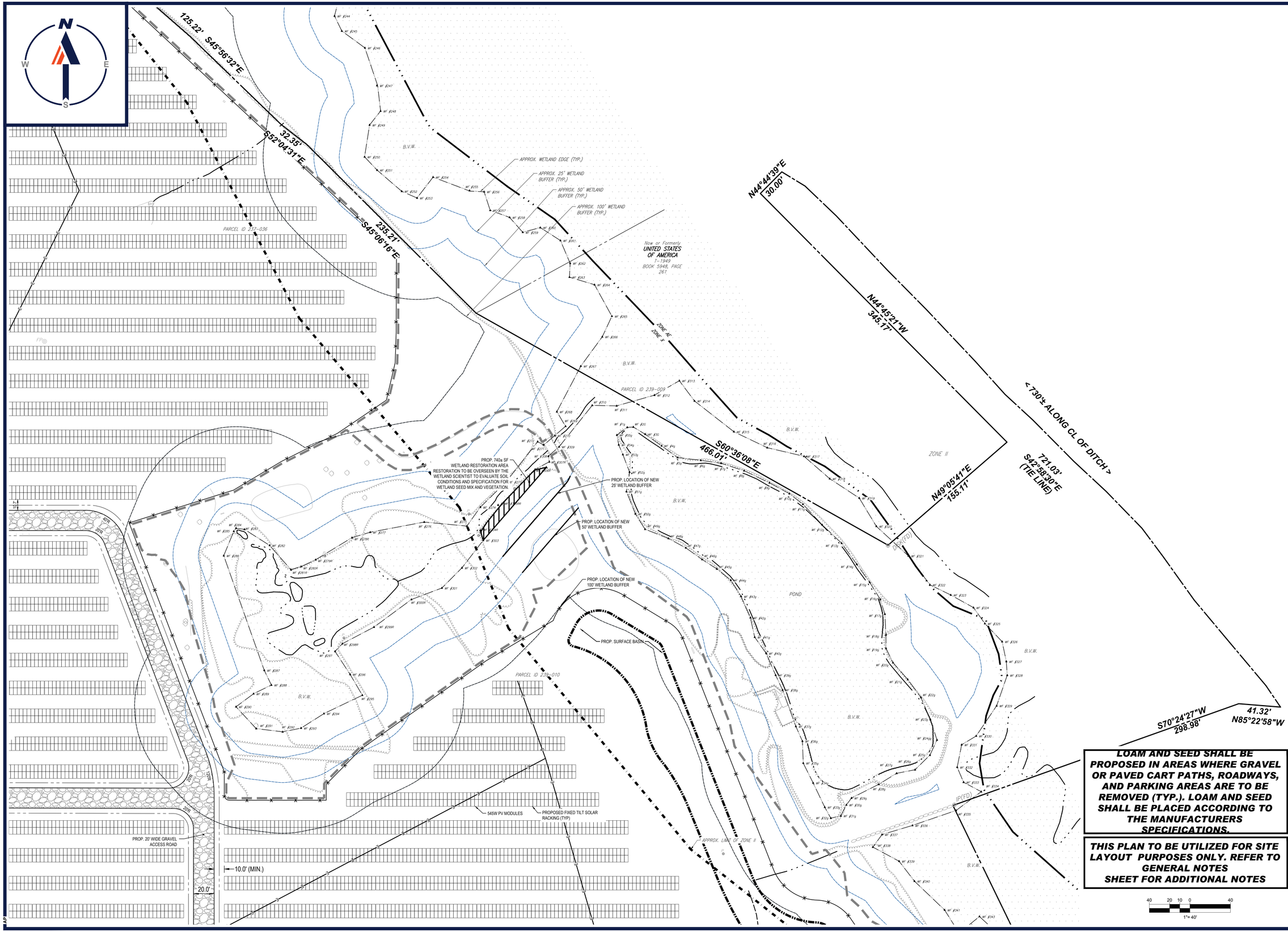
SHEET TITLE:

SITE LAYOUT PLAN C

SHEET NUMBER:

C-304

REVISION 4 - 8/01/2023



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160 MAPLE STREET,

TOWN OF BELLINGHAM & FRANKLIN, NORFOLK COUNTY, MASSACHUSETTS

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352 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
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COMMONWEALTH OF MASSACHUSETTS
JOHN KUCZARSKI
CIVIL
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REGISTERED PROFESSIONAL ENGINEER
MA LICENSE No. 41530
NEW HAMPSHIRE LICENSE No. 15476
CONNECTICUT LICENSE No. 30177
RHODE ISLAND LICENSE No. 9616
MAINE LICENSE No. 12553

SHEET TITLE:

SITE LAYOUT PLAN D

SHEET NUMBER:

C-305

REVISION 4 - 8/01/2023

N
W
E
S

TOWN OF BELLINGHAM
TOWN OF FRANKLIN

GRAVEL

N10°29'03"E
714.49'

GRAVEL

GRAVEL

N18°34'30"E
16.91'

(R+FD)

PROP. ACCESS EASEMENT

Now or Formerly
LMP PROPERTIES, LLC
BOOK 32050, PAGE 98
PARCEL ID 239-011

PROP. LIMIT OF WORK (TYP.)

297.99'
N60°45'22"W

(R+FD)

EXIST. GRAVEL
(TO REMAIN)

260.13'
N62°32'38"W

EXIST. GRAVEL
(TO REMAIN)

N61°40'39"W
500.46'

PROP. UNDERGROUND
ELECTRIC

10.0' (MIN.)

PROPOSED 20' WIDE
GRAVEL ACCESS ROAD

PROPOSED PERIMETER
FENCE (TYP.)

14.0'

PARCEL ID 239-012

PROP. ACCESS EASEMENT

645W PV MODULES

PROPOSED FIXED TILT SOLAR
RACKING (TYP)

20.0'

PARCEL ID 239-010

14.0'

PROPOSED 20' WIDE
GRAVEL ACCESS ROAD

PROP. UNDERGROUND
ELECTRIC

30.0'

20.0'

PROPOSED PERIMETER
FENCE (TYP.)

PROP. TURN-AROUND AREA

50R

50.0'

50R

PROP. SECURITY FENCE GATE

PROP. ACCESS EASEMENT

PROPOSED 24' WIDE
DOUBLE SWING GATE
WITH KNOX BOX

PROP. STONE ACCESS DRIVE
AND EASEMENT FOR FUTURE
DEVELOPMENT TO THE SOUTH.

Now or Formerly
LMP PROPERTIES, LLC
BOOK 32050, PAGE 98
PARCEL ID 239-007

LOAM AND SEED SHALL BE PROPOSED IN AREAS WHERE GRAVEL OR PAVED CART PATHS, ROADWAYS, AND PARKING AREAS ARE TO BE REMOVED (TYP.). LOAM AND SEED SHALL BE PLACED ACCORDING TO THE MANUFACTURERS SPECIFICATIONS.

THIS PLAN TO BE UTILIZED FOR SITE LAYOUT PURPOSES ONLY. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL NOTES

40 20 10 0 40
1"= 40'

P:\2021\257\CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\W201257-SPPD-4A.—1LAYOUT C-306-SITE E

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4	8/01/2023	PARCEL AREA REFERENCES	AP / GD

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CHECKED BY:	GD
DATE:	04/13/2023
CAD I.D.:	W201257-SPPD-4A

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR

NEXTGRID MESCALBEAN LLC

PROPOSED SOLAR FARM

LOTS INCLUDED (PARCEL #):239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009
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CONNECTICUT LICENSE No. 28172
RHODE ISLAND LICENSE No. 9616
MAINE LICENSE No. 12553

SHEET TITLE:

SITE LAYOUT PLAN E

SHEET NUMBER:

C-306

REVISION 4 - 8/01/2023

N
W
E
S

PROP. UNDERGROUND ELECTRIC

PARCEL ID 239-009

PARCEL ID 239-010

PROPOSED PERIMETER FENCE

APPROX. WETLAND EDGE (TYP.)
APPROX. 25' WETLAND BUFFER (TYP.)
APPROX. 50' WETLAND BUFFER (TYP.)
APPROX. 100' WETLAND BUFFER (TYP.)

ZONE X
ZONE AE

Now or Formerly
TOWN OF FRANKLIN
(PLAN 318 OF 1997)
(LEGAL REFERENCE NOT FOUND)

S35°55'24"E
587.21'

B.V.W.

S57°33'51"E
89.76'

322.08'
S56°02'25"W

545W PV MODULES

PROPOSED FIXED TILT SOLAR RACKING (TYP)

14.0'

PROPOSED PERIMETER FENCE (TYP.)

PROP. LIMIT OF WORK (TYP.)

20.0' (TYP.)

EXIST. CART PATH (TO REMAIN)

CART PATH

APPROX. 100' WETLAND BUFFER (TYP.)
APPROX. 50' WETLAND BUFFER (TYP.)
APPROX. 25' WETLAND BUFFER (TYP.)
APPROX. WETLAND EDGE (TYP.)

FUTURE PUBLIC AMENITY SPACE (74,500 ± SQ.FT.)

VERNAL POOL

I.L.S.F. (VERNAL POOL)

NEXTGRID AGREES TO WORK WITH THE TOWN OF FRANKLIN IN GOOD FAITH TO ALLOW USE OF THE DESIGNATED PORTIONS OF PARCEL 2 FOR THE PUBLIC GOOD.

PROPOSED PERIMETER FENCE (TYP.)

50ft

PROP. STONE ACCESS DRIVE AND EASEMENT FOR FUTURE DEVELOPMENT TO THE SOUTH.

S43°26'35"E
168.30'

S43°56'35"E
178.20'

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40 20 10 0 40
1"= 40'

P:\2021\W201257\CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\W201257-SPPD-4A---LAYOUT C-307-SITE F

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DRAWN BY:	EVD / CMC / OCR
CHECKED BY:	GD
DATE:	04/13/2023
CAD I.D.:	W201257-SPPD-4A

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR

NEXTGRID MESCALBEAN LLC

PROPOSED SOLAR FARM

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MASSACHUSETTS No. 41530
RHODE ISLAND No. 13476
CONNECTICUT No. 28177
RHODE ISLAND No. 9618
MAINE LICENSE No. 12553

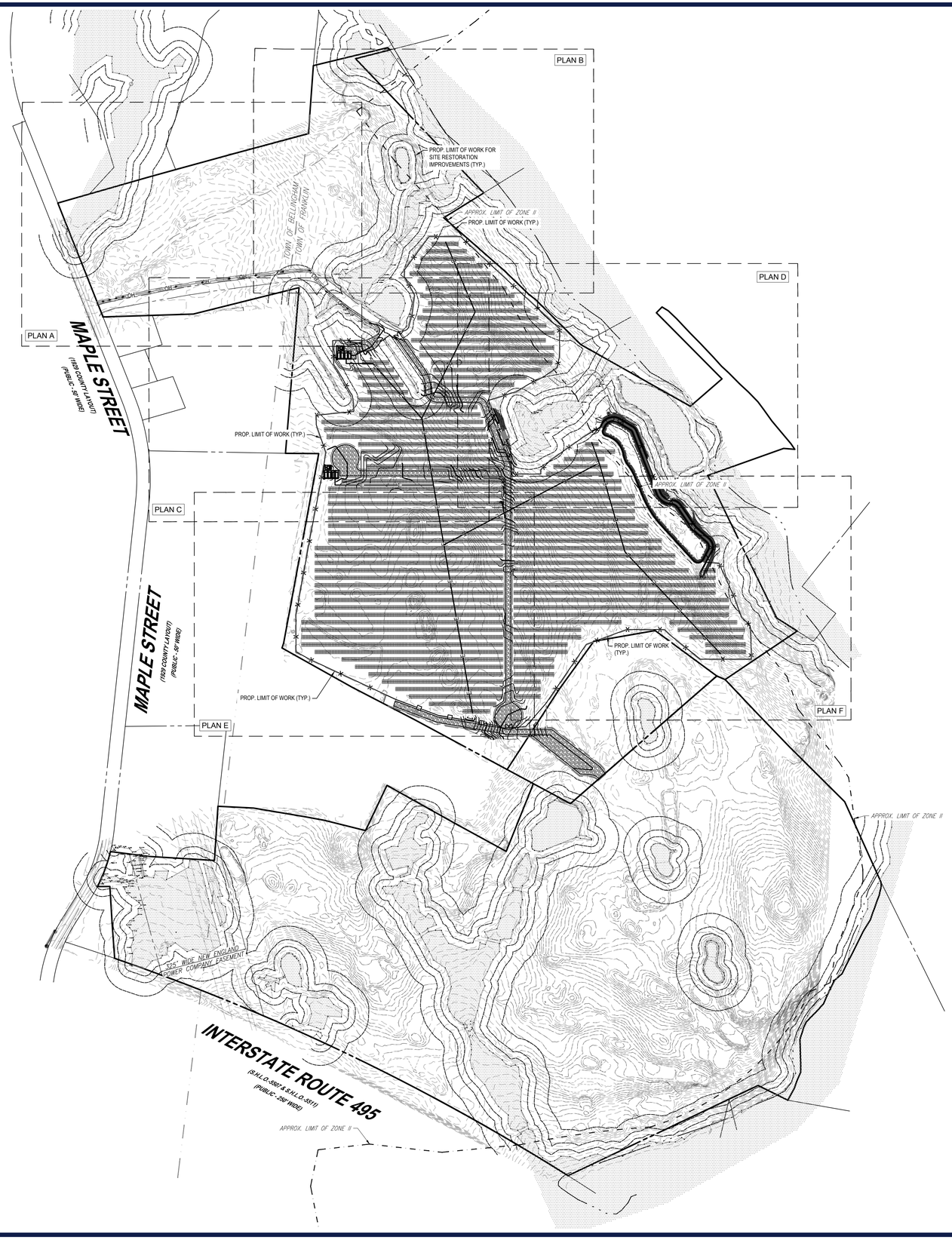
SHEET TITLE:

SITE LAYOUT PLAN F

SHEET NUMBER:

C-307

REVISION 4 - 8/01/2023



THE PURPOSE OF THE OVERALL PLAN SHEET IS TO BE UTILIZED AS A SITE KEY MAP, TO PROVIDE SITE FEATURE LOCATIONS ONLY. PLEASE REFER TO EACH INDIVIDUAL SHEET FOR MORE INFORMATION.

CONTRACTOR TO RETAIN EXISTING TOPSOIL TO BE STOCKPILED, SCREENED, AND REUSED IN OTHER LOCATIONS THROUGHOUT THE SITE.

NO STOCKPILES SHALL BE LOCATED WITHIN WETLANDS OR WETLAND BUFFER ZONES.

NO EARTH MATERIAL SHALL BE REMOVED FROM THE SITE EXCEPT FOR UNSUITABLE CONSTRUCTION AND DEMOLITION DEBRIS.

THIS PLAN TO BE UTILIZED FOR SITE GRADING PURPOSES ONLY. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL GRADING & UTILITY NOTES

200 100 50 0 200

1"= 200'

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CHECKED BY:	GD
DATE:	04/13/2023
CAD I.D.:	W201257-GRAD-4A

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR

NEXTGRID MESCALBEAN LLC

PROPOSED SOLAR FARM

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MASSACHUSETTS LICENSE No. 41530
NEW HAMPSHIRE LICENSE No. 19476
CONNECTICUT LICENSE No. 29127
RHODE ISLAND LICENSE No. 9618
MAINE LICENSE No. 12553

SHEET TITLE:

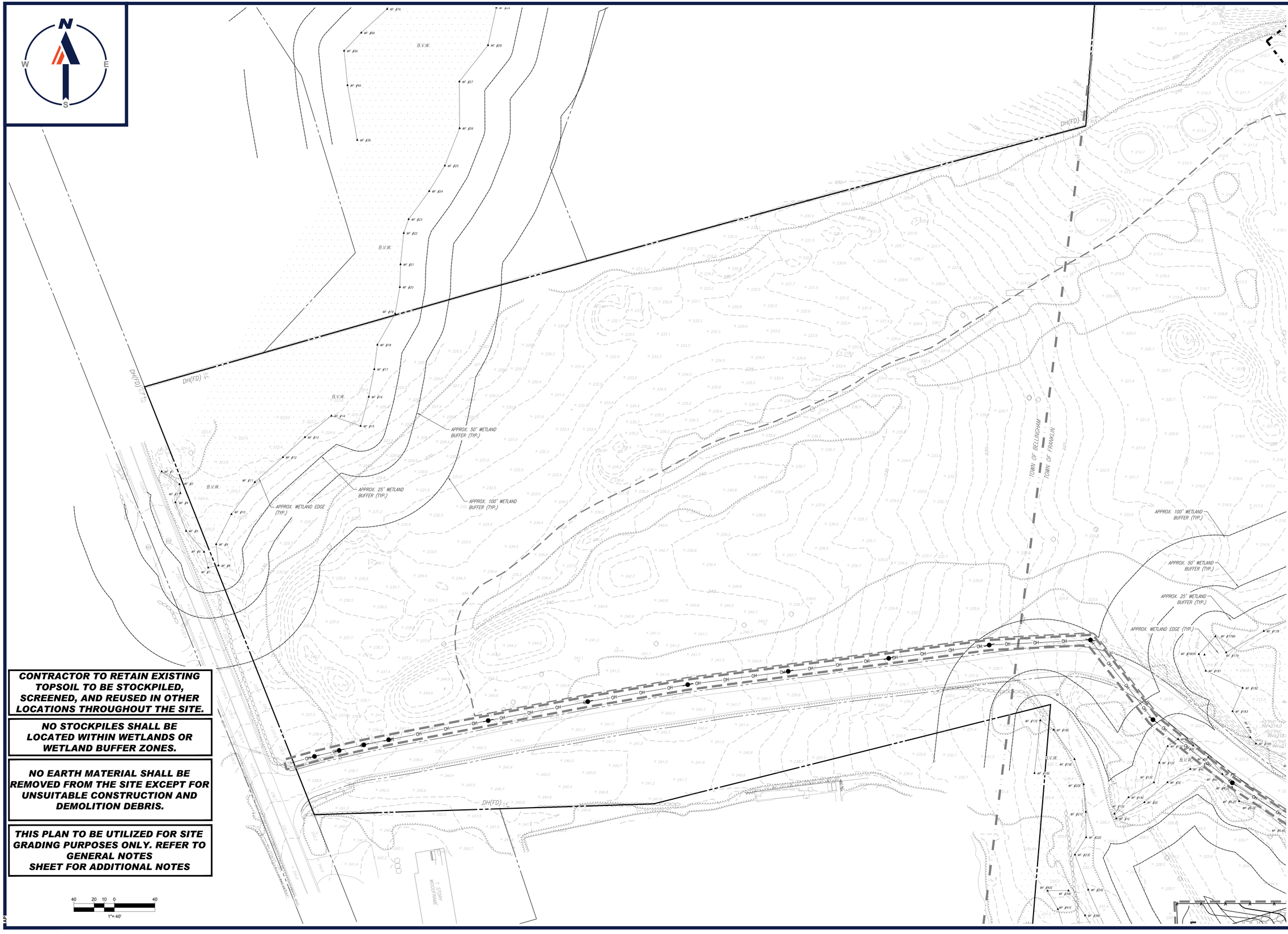
OVERALL GRADING PLAN

SHEET NUMBER:

C-401

REVISION 4 - 8/01/2023

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CHECKED BY:	GD
DATE:	04/13/2023
CAD I.D.:	W201257-GRAD-4A

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR

NEXTGRID MESCALBEAN LLC

PROPOSED SOLAR FARM

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CONNECTICUT LICENSE No. PEN.0029177
RHODE ISLAND LICENSE No. 9616
MAINE LICENSE No. 22553

SHEET TITLE:

GRADING PLAN A

SHEET NUMBER:

C-402

REVISION 4 - 8/01/2023



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NEXTGRID MESCALBEAN LLC

PROPOSED SOLAR FARM

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NEW HAMPSHIRE No. 15476
CONNECTICUT No. 29177
RHODE ISLAND No. 9616
MAINE LICENSE No. 12553

SHEET TITLE:

GRADING PLAN B

SHEET NUMBER:

C-403

REVISION 4 - 8/01/2023



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40 20 10 0 40
1"= 40'

P:\2W\201257\CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\W201257-GRAD-4A.....=LAYOUT C-404-GRAD C

APP

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PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR

NEXTGRID MESCALBEAN LLC

PROPOSED SOLAR FARM

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NEW HAMPSHIRE No. 19476
CONNECTICUT No. 26177
RHODE ISLAND No. 9618
MAINE LICENSE No. 12553

SHEET TITLE:

GRADING PLAN C

SHEET NUMBER:

C-404

REVISION 4 - 8/01/2023



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PROPOSED SITE PLAN DOCUMENTS

FOR

NEXTGRID MESCALBEAN LLC

PROPOSED SOLAR FARM

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CIVIL
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REGISTERED PROFESSIONAL ENGINEER

SHEET TITLE:

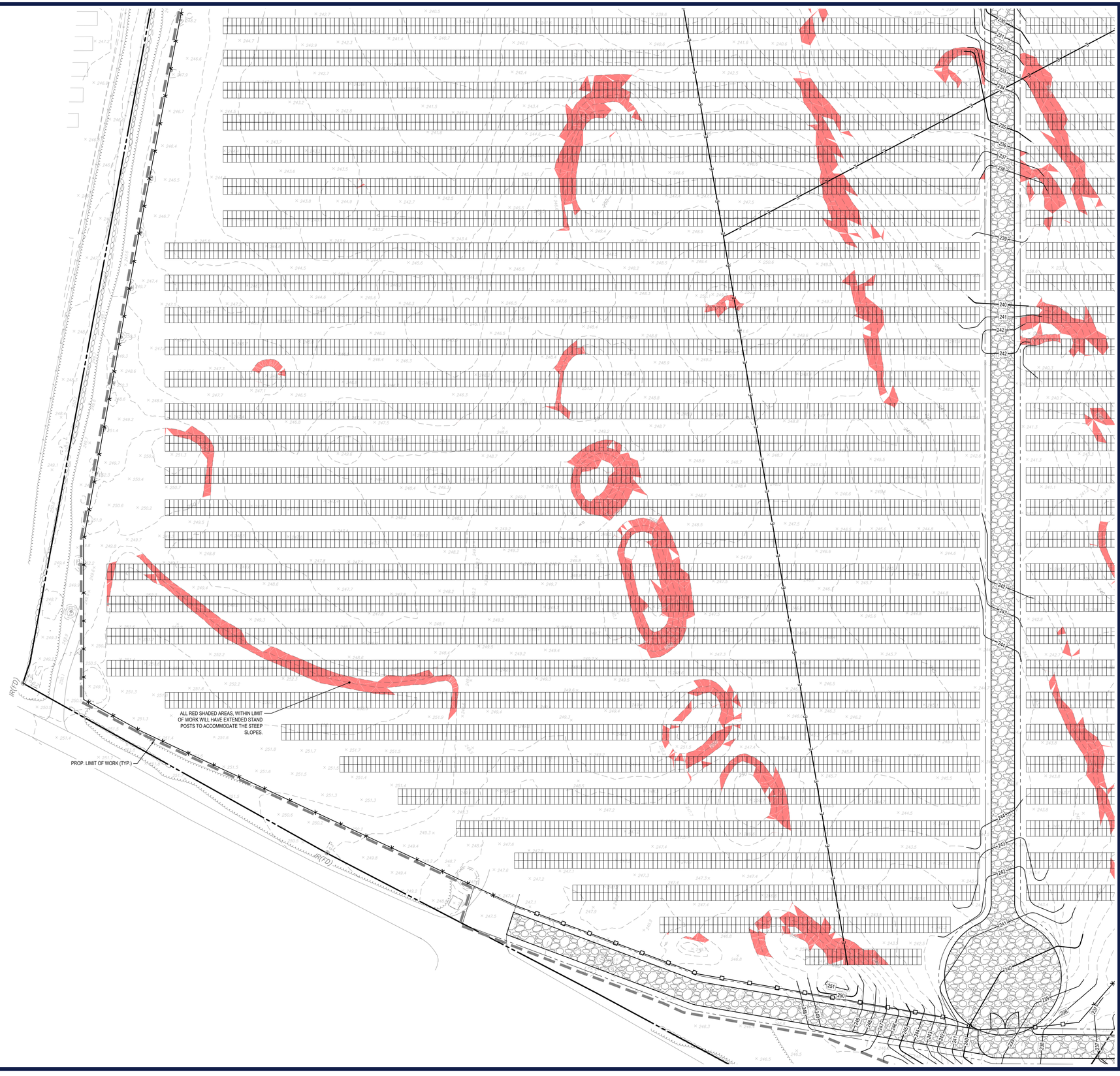
GRADING PLAN D

SHEET NUMBER:

C-405

REVISION 4 - 8/01/2023

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AP



CONTRACTOR TO RETAIN EXISTING TOPSOIL TO BE STOCKPILED, SCREENED, AND REUSED IN OTHER LOCATIONS THROUGHOUT THE SITE.

NO STOCKPILES SHALL BE LOCATED WITHIN WETLANDS OR WETLAND BUFFER ZONES.

NO EARTH MATERIAL SHALL BE REMOVED FROM THE SITE EXCEPT FOR UNSUITABLE CONSTRUCTION AND DEMOLITION DEBRIS.

THIS PLAN TO BE UTILIZED FOR SITE GRADING PURPOSES ONLY. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL NOTES

40 20 10 0 40
1"= 40'

P:\2021\257\CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\W201257-GRAD-4A.----=1A.YOUT C-406-GRAD E
AP

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TRANSPORTATION SERVICES

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1	06/07/2023	PLANNING BOARD COMMENTS	OCR / GD
2	07/10/2023	PLANNING BOARD COMMENTS	OCR / GD
3	7/19/2023	PER SURVEY UPDATES	AP / GD
4	8/01/2023	PARCEL AREA REFERENCES	AP / GD

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PROJECT No.: W201257
DRAWN BY: EVD / CMC / OCR
CHECKED BY: GD
DATE: 04/13/2023
CAD I.D.: W201257-GRAD-4A

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR

NEXTGRID MESCALBEAN LLC

PROPOSED SOLAR FARM

LOTS INCLUDED (PARCEL #):239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009
160 MAPLE STREET,
TOWN OF BELLINGHAM & FRANKLIN, NORFOLK COUNTY, MASSACHUSETTS

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SOUTHBOROUGH, MA 01772
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COMMONWEALTH OF MASSACHUSETTS
JOHN KUCHARSKI
CIVIL
No. 41530
REGISTERED PROFESSIONAL ENGINEER
NEW HAMPSHIRE LICENSE NO. 15476
CONNECTICUT LICENSE NO. 29172
RHODE ISLAND LICENSE No. 9616
MAINE LICENSE NO. 12553

SHEET TITLE:

GRADING PLAN E

SHEET NUMBER:

C-406

REVISION 4 - 8/01/2023



P:\2024\W201257\CAD\DRAWINGS\PLAN SET\SITE\CIVIL SITE PLANS\W201257-GRAD-4A-----LAYOUT: C-407-GRAD F

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PROJECT No.:	W201257
DRAWN BY:	EVD / CMC / OCR
CHECKED BY:	GD
DATE:	04/13/2023
CAD I.D.:	W201257-GRAD-4A

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR

NEXTGRID MESCALBEAN LLC

PROPOSED SOLAR FARM

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MASSACHUSETTS LICENSE No. 41530
NEW HAMPSHIRE LICENSE No. 19476
CONNECTICUT LICENSE No. 26177
RHODE ISLAND LICENSE No. 9616
MAINE LICENSE No. 12553

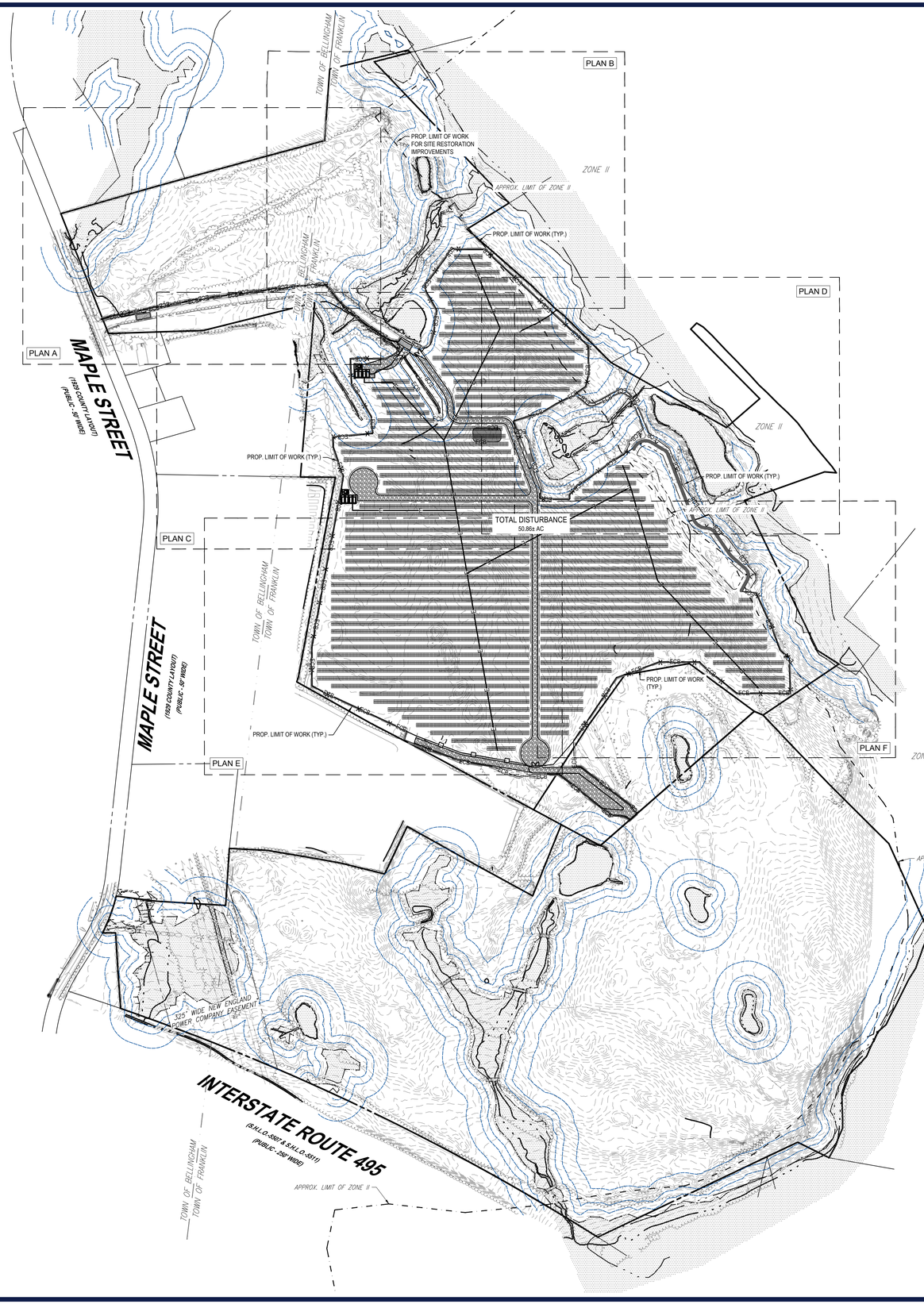
SHEET TITLE:

GRADING PLAN F

SHEET NUMBER:

C-407

REVISION 4 - 8/01/2023



THE PURPOSE OF THE OVERALL PLAN SHEET IS TO BE UTILIZED AS A SITE KEY MAP, TO PROVIDE SITE FEATURE LOCATIONS ONLY. PLEASE REFER TO EACH INDIVIDUAL SHEET FOR MORE INFORMATION.

STOCKPILES SHALL BE LOCATED OUTSIDE OF THE 100-FOOT BUFFER ZONE TO RESOURCE AREAS.

THIS PLAN TO BE UTILIZED FOR SITE SOIL AND EROSION CONTROL PURPOSES ONLY

MEADOW SEED MIX SHALL BE INSTALLED WITHIN ALL LANDSCAPE AREAS DELINEATED BY THE LIMIT OF WORK

REFER TO SOIL EROSION CONTROL NOTES & DETAIL SHEET FOR EROSION NOTES AND DETAILS

EROSION CONTROL BARRIER SHALL CONSIST OF BOTH COMPOST SOCK AND SIT FENCE UNLESS OTHERWISE NOTED. SEE DETAILS FOR MORE INFORMATION.

200 100 50 0 200
1"= 200'

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PROJECT No.: W201257
DRAWN BY: EVD / CMC / OCR
CHECKED BY: GD
DATE: 04/13/2023
CAD I.D.: W201257-EROS-4A

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR

NEXTGRID MESCALBEAN LLC

PROPOSED SOLAR FARM

LOTS INCLUDED (PARCEL #):239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009
160 MAPLE STREET,
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MASSACHUSETTS No. 41530
NEW HAMPSHIRE No. 19476
CONNECTICUT No. 29157
RHODE ISLAND No. 9416
MAINE LICENSE No. 24253

SHEET TITLE:
OVERALL SOIL EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER:
C-601

REVISION 4 - 8/01/2023

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AP

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W E

S

Now or Formerly
JOHN BOCCI
BOOK 913, PAGE 50
PARCEL ID 26-0010A
(REGISTERED LAND)

Now or Formerly
GRAY WALL REALTY TRUST
BOOK 30959, PAGE 532
PARCEL ID 26-0062

Now or Formerly
GRAY WALL REALTY TRUST
BOOK 756, PAGE 137
PARCEL ID 26-0006A
(REGISTERED LAND)

Now or Formerly
MAPLEGATE REALTY TRUST
BOOK 9390, PAGE 162
PARCEL ID 26-0009

Now or Formerly
LMP PROPERTIES, LLC
BOOK 32050, PAGE 88
PARCEL ID 26-0010A

N21°38'12"W 326.77'

N21°38'12"W 454.10'

N04°07'57"E 252.78'

283.47' N74°59'00"E

226.14' N74°40'13"E

105.94' N74°29'29"E

347.98' N74°01'42"E

403.68' S75°57'08"W

S88°10'06"W 151.97'

334.95'

DH(FD)

B.V.W.

APPROX. 25' WETLAND BUFFER (TYP.)

APPROX. WETLAND EDGE (TYP.)

APPROX. 100' WETLAND BUFFER (TYP.)

TOWN OF BELLINGHAM
TOWN OF FRANKLIN

PARCEL ID 2

EXIST. BIT. CONC. (TO REMAIN)

EXISTING GRAVEL DRIVEWAY (TO REMAIN)

EXIST. GRAVEL (TO REMAIN)

PROP. LIMIT OF WORK FOR ADDITIONAL STONE TRACKING PAD

PROP. ADDITIONAL STONE TRACKING PAD

PROP. DUST CONTROL ALONG THE EXIST. ACCESS ROAD

PROP. EROSION CONTROL BARRIER. OFFSET SHOWN FOR GRAPHICAL PURPOSES ONLY. ECB TO BE PLACED ON THE LIMIT OF WORK.

1 STORY WOODFRAME

STOCKPILES SHALL BE LOCATED OUTSIDE OF THE 100-FOOT BUFFER ZONE TO RESOURCE AREAS.

THIS PLAN TO BE UTILIZED FOR SITE SOIL AND EROSION CONTROL PURPOSES ONLY

MEADOW SEED MIX SHALL BE INSTALLED WITHIN ALL LANDSCAPE AREAS DELINEATED BY THE LIMIT OF WORK

REFER TO SOIL EROSION CONTROL NOTES & DETAIL SHEET FOR EROSION NOTES AND DETAILS

EROSION CONTROL BARRIER SHALL CONSIST OF BOTH COMPOST SOCK AND SIT FENCE UNLESS OTHERWISE NOTED. SEE DETAILS FOR MORE INFORMATION.

40 20 10 0 40
1"= 40'

P:\SW\20\257\CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\W201257-EROS-4A.—3A LAYOUT C-602-EROS A

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4	8/01/2023	PARCEL AREA REFERENCES	AP / GD

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PROJECT No.:	W201257
DRAWN BY:	EVD / CMC / OCR
CHECKED BY:	GD
DATE:	04/13/2023
CAD I.D.:	W201257-EROS-4A

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR

NEXTGRID MESCALBEAN LLC

PROPOSED
SOLAR FARM

LOTS INCLUDED (PARCEL #):239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009
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CIVIL
No. 41530
REGISTERED PROFESSIONAL ENGINEER

J. KUCHARSKI
NEW HAMPSHIRE LICENSE No. 17539
NEW YORK LICENSE No. 095476
CONNECTICUT LICENSE No. 28177
RHODE ISLAND LICENSE No. 9616
MAINE LICENSE No. 12553

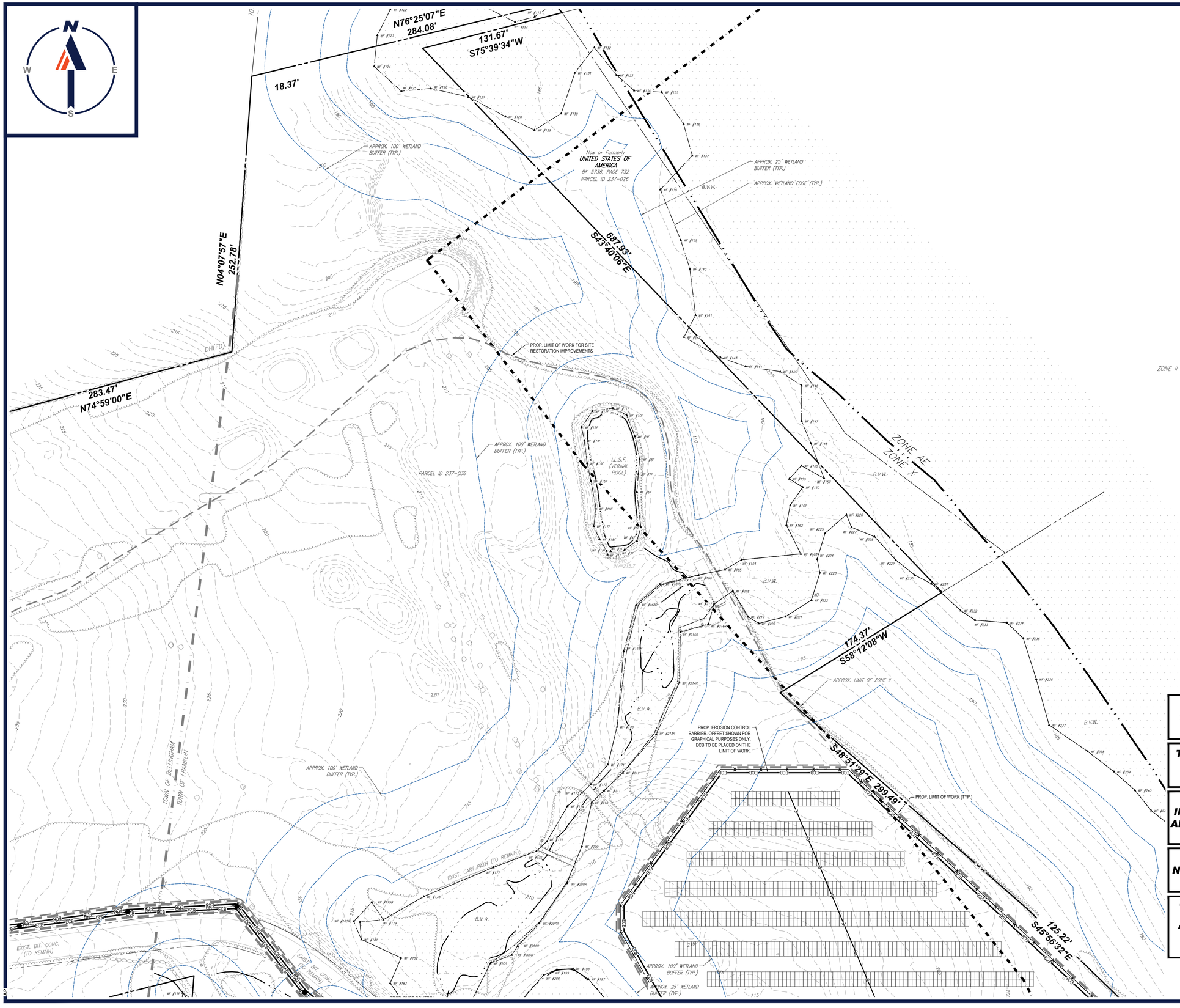
SHEET TITLE:

SOIL EROSION & SEDIMENT CONTROL PLAN A

SHEET NUMBER:

C-602

REVISION 4 - 8/01/2023



STOCKPILES SHALL BE LOCATED OUTSIDE OF THE 100-FOOT BUFFER ZONE TO RESOURCE AREAS.

THIS PLAN TO BE UTILIZED FOR SITE SOIL AND EROSION CONTROL PURPOSES ONLY

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DRAWN BY:	EVD / CMC / OCR
CHECKED BY:	GD
DATE:	04/13/2023
CAD I.D.:	W201257-EROS-4A

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR

NEXTGRID MESCALBEAN LLC

PROPOSED SOLAR FARM

LOTS INCLUDED (PARCEL #):239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009
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COMMONWEALTH OF MASSACHUSETTS
JOHN KUCZARSKI
CIVIL
No. 41530
REGISTERED PROFESSIONAL ENGINEER

SHEET TITLE:

SOIL EROSION & SEDIMENT CONTROL PLAN B

SHEET NUMBER:

C-603

REVISION 4 - 8/01/2023

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AP



STOCKPILES SHALL BE LOCATED OUTSIDE OF THE 100-FOOT BUFFER ZONE TO RESOURCE AREAS.

THIS PLAN TO BE UTILIZED FOR SITE SOIL AND EROSION CONTROL PURPOSES ONLY

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REFER TO SOIL EROSION CONTROL NOTES & DETAIL SHEET FOR EROSION NOTES AND DETAILS

EROSION CONTROL BARRIER SHALL CONSIST OF BOTH COMPOST SOCK AND SIT FENCE UNLESS OTHERWISE NOTED. SEE DETAILS FOR MORE INFORMATION.

40 20 10 0 40
1"= 40'

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APP

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PROJECT No.:	W201257
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CHECKED BY:	GD
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CAD I.D.:	W201257-EROS-4A

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR

NEXTGRID MESCALBEAN LLC

PROPOSED SOLAR FARM

LOTS INCLUDED (PARCEL #):239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009
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MASSACHUSETTS LICENSE No. 41530
NEW HAMPSHIRE LICENSE No. 19476
CONNECTICUT LICENSE No. 30177
RHODE ISLAND LICENSE No. 9616
MAINE LICENSE No. 12553

SHEET TITLE:

SOIL EROSION & SEDIMENT CONTROL PLAN C

SHEET NUMBER:

C-604

REVISION 4 - 8/01/2023



STOCKPILES SHALL BE LOCATED OUTSIDE OF THE 100-FOOT BUFFER ZONE TO RESOURCE AREAS.

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40 20 10 0 40
1"= 40'

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DRAWN BY:	EVD / CMC / OCR
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DATE:	04/13/2023
CAD I.D.:	W201257-EROS-4A

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR

NEXTGRID MESCALBEAN LLC

PROPOSED
SOLAR FARM

LOTS INCLUDED (PARCEL #):239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009
160 MAPLE STREET,
TOWN OF BELLINGHAM & FRANKLIN, NORFOLK COUNTY, MASSACHUSETTS

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REGISTERED PROFESSIONAL ENGINEER

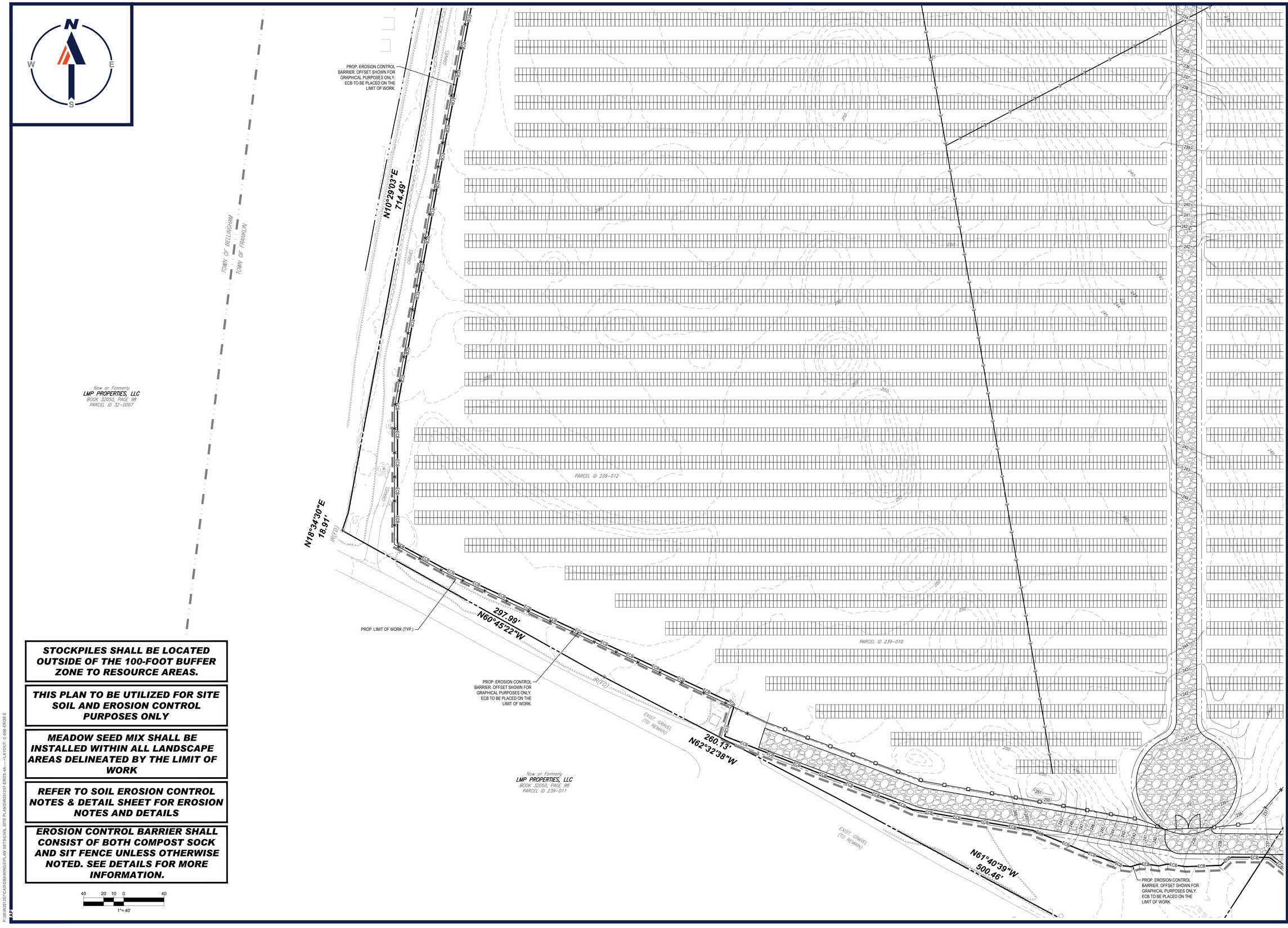
SHEET TITLE:

SOIL EROSION & SEDIMENT CONTROL PLAN D

SHEET NUMBER:

C-605

REVISION 4 - 8/01/2023



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ENVIRONMENTAL SERVICES
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REVISIONS

REV	DATE	COMMENT	DRAWN BY / CHECKED BY
1	06/07/2023	PLANNING BOARD COMMENTS	OCR / GD
2	07/10/2023	PLANNING BOARD COMMENTS	OCR / GD
3	7/19/2023	PER SURVEY UPDATES	AP / GD
4	8/01/2023	PARCEL AREA REFERENCES	AP / GD

811
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FOR EXHIBIT PURPOSES ONLY

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PROJECT No.:	W201257
DRAWN BY:	EVD / CMC / OCR
CHECKED BY:	GD
DATE:	04/13/2023
CAD I.D.:	W201257-EROS-4A

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR

NEXTGRID MESCALBEAN LLC

PROPOSED SOLAR FARM

LOTS INCLUDED (PARCEL #):239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009
160 MAPLE STREET,
TOWN OF BELLINGHAM & FRANKLIN, NORFOLK COUNTY, MASSACHUSETTS

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SOUTHBOROUGH, MA 01772
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JOHN KUCEWICZ
COMMONWEALTH OF MASSACHUSETTS
JOHN M. KUCEWICZ
CIVIL
No. 41530
REGISTERED PROFESSIONAL ENGINEER
NEW HAMPSHIRE LICENSE NO. 15476
CONNECTICUT LICENSE NO. 29172
RHODE ISLAND LICENSE No. 9616
MAINE LICENSE NO. 12553

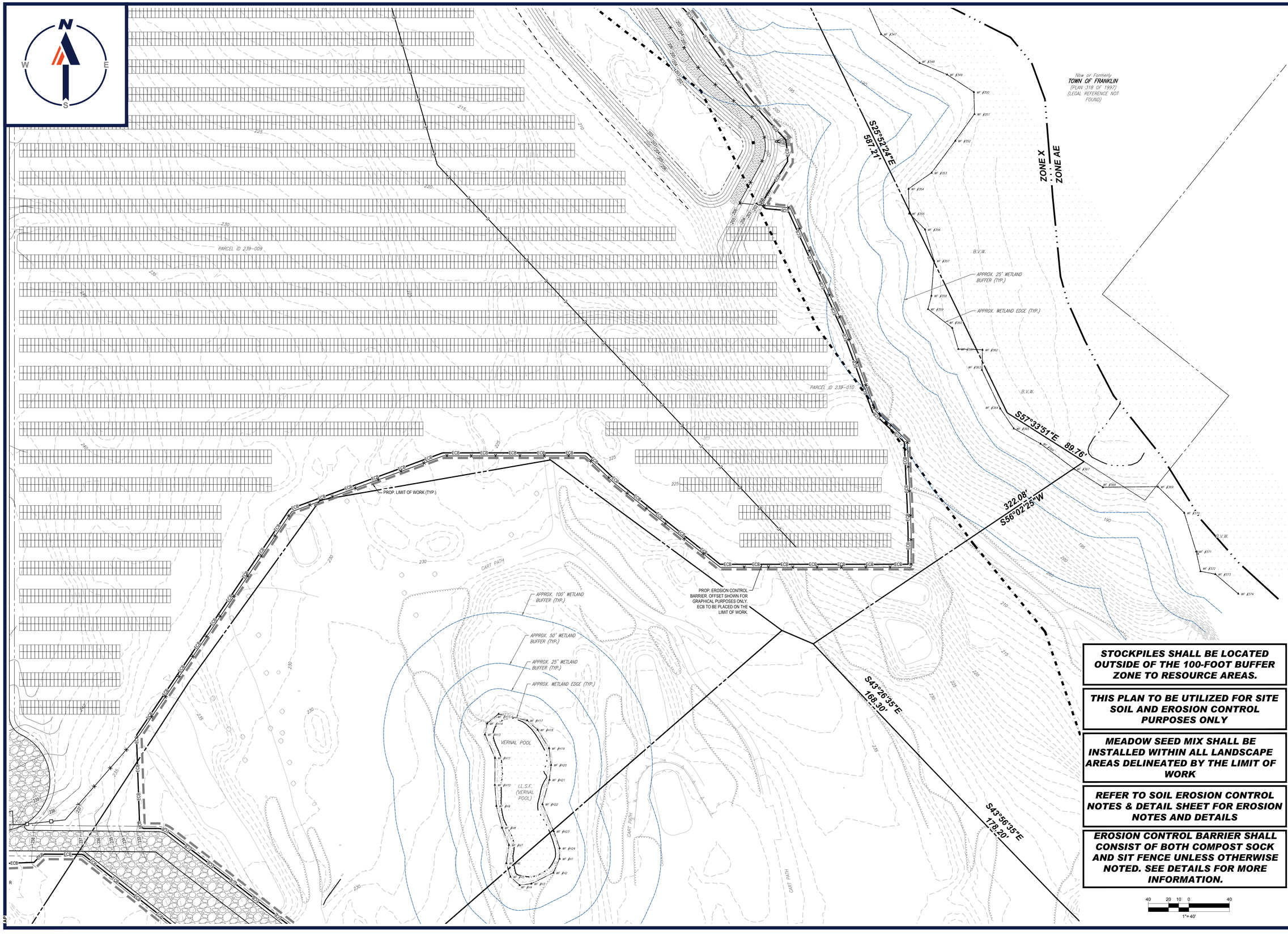
SHEET TITLE:

SOIL EROSION & SEDIMENT CONTROL PLAN E

SHEET NUMBER:

C-606

REVISION 4 - 8/01/2023


N
W
E
S
PARCEL ID 239-009
PARCEL ID 239-010
Now or Formerly
TOWN OF FRANKLIN
(PLAN 318 OF 1997)
(LEGAL REFERENCE NOT FOUND)
ZONE X
ZONE AE
S35°55'24"E
587.21'
S51°33'51"E 89.76'
322.08'
S56°02'25"W
S43°26'35"E
168.30'
S43°56'35"E
178.20'
PROP. LIMIT OF WORK (TYP.)
PROP. EROSION CONTROL BARRIER. OFFSET SHOWN FOR GRAPHICAL PURPOSES ONLY. ECB TO BE PLACED ON THE LIMIT OF WORK.
APPROX. 100' WETLAND BUFFER (TYP.)
APPROX. 50' WETLAND BUFFER (TYP.)
APPROX. 25' WETLAND BUFFER (TYP.)
APPROX. WETLAND EDGE (TYP.)
APPROX. 25' WETLAND BUFFER (TYP.)
APPROX. WETLAND EDGE (TYP.)
B.V.W.
VERNAL POOL
1,1,S.F. (VERNAL POOL)
CART PATH
ECB
W/ #347
W/ #348
W/ #349
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EROSION AND SEDIMENT CONTROL NOTES

1. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE AS SET FORTH IN THE MOST CURRENT STATE SEDIMENT AND EROSION CONTROL MANUAL.

2. THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE LEFT IN AN UNTREATED OR UNVEGETATED CONDITION FOR A MINIMUM TIME. AREAS SHALL BE PERMANENTLY STABILIZED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS. AT A MINIMUM, AREAS SHALL BE PERMANENTLY STABILIZED ACCORDING TO THE CURRENT EDITION OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP), OR IN THE ABSENCE OF A SWPPP, THEY SHALL BE PERMANENTLY STABILIZED WITHIN 14 DAYS OF FINAL GRADING AND TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF THE SOIL. IF THE DISTURBANCE IS WITHIN 100 FEET OF A STREAM OR POND, THE AREA SHALL BE STABILIZED WITHIN 7 DAYS OR PRIOR TO ANY STORM EVENT (THIS WOULD INCLUDE WETLANDS).

3. SEDIMENT BARRIERS (SILT FENCE, STRAW BARRIERS, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONTRIBUTING DRAINAGE AREA ABOVE THEM. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 8%.

4. INSTALL SILTATION BARRIER AT TOE OF SLOPE TO FILTER SILT FROM RUNOFF. SEE SILTATION BARRIER DETAILS FOR PROPER INSTALLATION. SILTATION BARRIER WILL REMAIN IN PLACE PER NOTE #5.

5. ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED AND/OR REPAIRED EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR WHEN NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION OR DECOMPOSITION. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE PERMANENTLY STABILIZED. FOR SEDIMENT CONTROL DEVICES THAT ARE WITHIN AREAS SUBJECT TO CONSERVATION COMMISSION JURISDICTION, THE DEVICES SHALL REMAIN IN PLACE AND BE REMOVED IN ACCORDANCE WITH THE ORDER OF CONDITIONS.

6. NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN TWO TO ONE (2:1) UNLESS OTHERWISE INDICATED ON THE PLANS. SLOPE PROTECTION FOR SLOPES GREATER THAN 2:1 SHALL BE DESIGNED BY A GEOTECHNICAL ENGINEER.

7. IF FINAL SEEDING OF THE DISTURBED AREAS IS NOT COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST, USE TEMPORARY MULCH (DORMANT SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.

8. TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINAL GRADED SHALL BE COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST TO PROTECT FROM SPRING RUNOFF PROBLEMS.

9. DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL STANDARDS.

10. REVEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND PREPARED FOR FINAL SEEDING AS FOLLOWS:
    10.1. SIX INCHES, OR DEPTH SPECIFIED ON THE LANDSCAPE PLAN, OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE.
    10.2. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 800 LB PER ACRE OR 18.4 LB PER 1,000 SF USING 10-20-20 OR EQUIVALENT. APPLY GROUND LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 3 TONS PER ACRE (138 LB PER1,000 SF).
    10.3. FOLLOWING SEED BED PREPARATION, DITCHES AND BACK SLOPES WILL BE SEEDED TO A MIXTURE OF 47% CREEPING RED FESCUE, 5% REDTOP, AND 48% TALL FESCUE. THE LAWN AREAS WILL BE SEEDED TO A PREMIUM TURF MIXTURE OF 44% KENTUCKY BLUE-GRASS, 44% CREEPING RED FESCUE, AND 12% PERENNIAL RYEGRASS: SEEDING RATE IS 1.03 LBS PER 1,000 SF LAWN. QUALITY SOD MAY BE SUBSTITUTED FOR SEED WHERE SLOPES DO NOT EXCEED 2:1, SOD ON SLOPES STEEPER THAN 3:1 SHOULD BE PEGGED.
    10.4. STRAW MULCH AT THE RATE OF 70-90 LBS PER 1,000 SF. A HYDRO-APPLICATION OF WOOD OR PAPER FIBER SHALL BE APPLIED FOLLOWING SEEDING. A SUITABLE NON-TOXIC BINDER WILL BE USED ON STRAW MULCH FOR WIND CONTROL.

11. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE SITE IS 70% STABILIZED. FOR EROSION CONTROL MEASURES THAT ARE WITHIN AREAS SUBJECT TO CONSERVATION COMMISSION JURISDICTION, THE MEASURES SHALL REMAIN IN PLACE AND BE REMOVED IN ACCORDANCE WITH THE ORDER OF CONDITIONS.

12. WETLANDS WILL BE PROTECTED WITH BARRIERS CONSISTING OF STRAW BALES, COMPOST TUBES, SILT FENCE OR A COMBINATION THEREOF.

13. ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL HAVE AN EXPOSURE WINDOW OF NOT MORE THAN 7 DAYS.

14. ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL FOLLOW APPROPRIATE EROSION CONTROL MEASURES PRIOR TO EACH STORM IF NOT BEING ACTIVELY WORKED:

LOCATION	MULCH	MULCH RATE (1000 SF)
PROTECTED AREA	STRAW	100 POUNDS
WINDY AREA	SHREDDED OR CHOPPED CORNSTALKS STRAW (ANCHORED)*	185-275 POUNDS 100 POUNDS
MODERATE TO HIGH VELOCITY AREAS OR STEEP SLOPES GREATER THAN 3:1	JUTE MESH OR EXCELSIOR MAT	AS REQUIRED
GREATER THAN 3:1	(REFER TO GEOTECHNICAL REPORT FOR FINAL DESIGN REQUIREMENT)	

* A HYDRO-APPLICATION OF WOOD OR PAPER FIBER MAY BE APPLIED FOLLOWING SEEDING. A SUITABLE NON-TOXIC BINDER SHALL BE USED TO ADDITIONAL WIND CONTROL.

* MULCH ANCHORING: ANCHOR MULCH WITH PEG AND TWINE (1 SQ. YD/BLOCK); MULCH NETTING (AS PER MANUFACTURER); WOOD CELLULOSE FIBER (750 LBS/ACRE); CHEMICAL TACK (AS PER MANUFACTURER'S SPECIFICATIONS); USE OF A SERRATED STRAIGHT DISK. WETTING FOR SMALL AREAS AND ROAD DITCHES MAY BE PERMITTED.

15. PROPOSED LOCATIONS OF SURFACE STORMWATER MANAGEMENT BASINS CAN BE UTILIZED AS A TEMPORARY SEDIMENT TRAP DURING CONSTRUCTION.SEDIMENT TRAPS SHALL BE SIZED AND CONSTRUCTED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS.
    15.1. TEMPORARY SEDIMENT TRAPS SHALL BE SIZED PER THE CURRENT EDITION OF THE "MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS" AND PROVIDE A MINIMUM OF 1,800 CF PER ACRE OF TRIBUTARY AREA WITH A MAXIMUM TRIBUTARY AREA OF 5 ACRES, MAINTAIN A 2:1 LENGTH TO WIDTH RATIO, AND NOT EXCEED 5 FT IN HEIGHT. UPON SITE STABILIZATION, ACCUMULATED SEDIMENT SHALL BE REMOVED AND THE TEMPORARY SEDIMENT TRAP EXCAVATED TO 1 FOOT BELOW THE TRAP. THE AREA SHALL THEN BE SCARIFIED TO PREVENT COMPACTION AND PROMOTE INFILTRATION, AND GRADED AND STABILIZED IN ACCORDANCE WITH THE GRADING AND LANDSCAPE PLANS.

16. STOCKPILING OF MATERIALS (DIRT, WOOD, CONSTRUCTION MATERIALS, ETC.) MUST REMAIN COVERED AT ALL TIMES TO MINIMIZE ANY DUST PROBLEMS THAT MAY OCCUR WITH ADJACENT PROPERTIES AND TO PROVIDE MAXIMUM PROTECTION AGAINST EROSION RUNOFF.

17. EXISTING CATCH BASIN STRUCTURES SHALL BE PROTECTED UNTIL SUCH TIME AS THEY ARE REMOVED.

18. THE CONTRACTOR MUST PERFORM DEWATERING (IF REQUIRED), IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND PAY FOR THE COSTS ASSOCIATED WITH ANY AND ALL NECESSARY DISCHARGE PERMITS ASSOCIATED WITH SAME.

19. THE CONTRACTOR MUST LOCATE CONSTRUCTION WASTE MATERIAL STORAGE AREAS TO MINIMIZE EXPOSURE TO STORMWATER. THE CONTRACTOR MUST IMMEDIATELY PLACE CONSTRUCTION WASTE IN ON-SITE STORAGE CONTAINERS UNTIL THAT CONSTRUCTION WASTE IS READY FOR OFF-SITE DISPOSAL. THE CONTRACTOR MUST MAINTAIN SPILL PREVENTION AND RESPONSE EQUIPMENT AND MAKE SAME CONTINUOUSLY AVAILABLE ON-SITE FOR USE BY THE CONTRACTOR'S EMPLOYEES WHO MUST BE PROPERLY TRAINED IN THE APPLICATION OF SPILL PREVENTION AND RESPONSE PROCEDURES.

20. EROSION CONTROL NOTES DURING WINTER CONSTRUCTION

21. WINTER CONSTRUCTION PERIOD: NOVEMBER 1 THROUGH APRIL 15.

22. WINTER EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT THE AMOUNT OF AREA OPEN AT ONE TIME IS MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE AND IN CONFORMANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN SUCH THAT ADEQUATE PROVISIONS ARE EMPLOYED TO CONTROL STORMWATER RUNOFF.

23. CONTINUATION OF EARTHWORK OPERATION ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED SUCH THAT NO LARGER AREA OF THE SITE IS WITHOUT EROSION CONTROL PROTECTION AS LISTED IN ITEM 2 ABOVE.

24. AN AREA SHALL BE CONSIDERED TO HAVE BEEN TEMPORARILY STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW OR STRAW AT A RATE OF 100 LB. PER 1,000 SQUARE FEET (WITH OR WITHOUT SEEDING) OR DORMANT SEEDED, MULCHED AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE.

25. FOR AREAS WHERE CONSTRUCTION ACTIVITIES HAVE CEASED FOR A PERIOD EXCEEDING 14 DAYS BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 1ST, LOAM OR SEED WILL NOT BE REQUIRED. THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDED. IF THE EXPOSED AREA HAS BEEN LOAMED, FINAL GRADED AND IS SMOOTH, THEN THE AREA MAY BE DORMANT SEEDED AT A RATE OF 200-300% HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED AS APPLICABLE. SLOPES SHALL NOT BE LEFT UNSTABILIZED OVER THE WINTER OR IN AREAS WHERE WORK HAS CEASED FOR MORE THAN 14 DAYS UNLESS TREATED IN THE ABOVE MANNER. UNTIL SUCH TIME AS WEATHER CONDITIONS ALLOW DITCHES TO BE FINISHED WITH THE PERMANENT SURFACE TREATMENT, EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF SEDIMENT BARRIERS OR STONE CHECK DAMS IN ACCORDANCE WITH THE STANDARD DETAILS.

26. MULCHING REQUIREMENTS:
    26.1. BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING OR WOOD CELLULOSE FIBER.
    26.2. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3% FOR SLOPE EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 8%.
    26.3. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15%. AFTER OCTOBER 1ST THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.

27. ALL DISTURBED AREAS SHALL BE STABILIZED IN ACCORDANCE WITH THE STORMWATER PREVENTION PLAN.

28. DURING THE WINTER CONSTRUCTION PERIOD ALL SNOW SHALL BE REMOVED FROM AREAS OF SEEDING AND MULCHING PRIOR TO PLACEMENT.

GENERAL EROSION AND SEDIMENT CONTROL NOTES

1. THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES, IN THEIR ENTIRETY. THE CONTRACTOR MUST BE FAMILIAR WITH AND ACKNOWLEDGE FAMILIARITY WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES.

2. EROSION CONTROL MEASURES MUST CONFORM TO THE STATE, LOCAL, AND FEDERAL GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL UNLESS OTHERWISE NOTED, OR UNLESS ENGINEER CLEARLY AND SPECIFICALLY, IN WRITING, DIRECTS OTHERWISE. INSTALLATION OF EROSION CONTROL, CLEARING, AND SITE WORK MUST BE PERFORMED EXACTLY AS INDICATED IN THE EROSION CONTROL CONSTRUCTION NOTES.

3. THE DISTURBED LAND AREA OF THIS SITE IS APPROXIMATELY 44.133 ACRES.

4. THE FOLLOWING EROSION CONTROL MEASURES ARE PROPOSED FOR THIS SITE:
    4.1. STABILIZED CONSTRUCTION ENTRANCE/ EXIT - A TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT IS TO BE INSTALLED AT THE DESIGNATED LOCATION SHOWN ON THE PLAN. THIS AREA MUST BE GRADED SO THAT RUNOFF WATER WILL BE RETAINED ON-SITE.
    4.2. SEDIMENT FENCE - INSTALL SILT FENCE(S) AND/OR SILT SOCK AROUND ALL OF THE DOWNSLOPE PERIMETERS OF THE SITE, TEMPORARY FILL AND SOIL STOCKPILES.
    4.3. INSTALL FILTER FABRIC DROP INLET PROTECTION AROUND EACH DRAINAGE INLET AS DRAINAGE STRUCTURES ARE INSTALLED TO REDUCE THE QUANTITY OF SEDIMENT. INSTALL TEMPORARY INLET PROTECTION ON INLETS DOWNSLOPE FROM DISTURBANCE, WHICH MAY BE BEYOND THE LIMITS OF DISTURBED AREA.

5. INSTALLATION OF EROSION CONTROL DEVICES MUST BE IN ACCORDANCE WITH ALL OF THE MANUFACTURER'S RECOMMENDATIONS.

6. THE CONTRACTOR MUST INSPECT EROSION CONTROL MEASURES WEEKLY. THE CONTRACTOR MUST REMOVE ANY SILT DEPOSITS GREATER THAN 6" OR HALF THE OF THE EROSION CONTROL BARRIER'S HEIGHT COLLECTED ON THE FILTER FABRIC AND/OR SILT SOCK BARRIERS AND EXCAVATE AND REMOVE ANY SILT FROM DROP INLET PROTECTION.

7. THE CONTRACTOR MUST APPLY TEMPORARY SEED AND MULCH TO ALL DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINISHED GRADE AND VEGETATED WITHIN 7 DAYS. WHEN AREAS ARE DISTURBED AFTER THE GROWING SEASON, THE CONTRACTOR MUST STABILIZE SAME WITH GEOTEXTILE FABRIC AND MAINTAIN SAME IN STRICT ACCORDANCE WITH BEST MANAGEMENT PRACTICES.

8. THE CONTRACTOR MUST INSTALL ADDITIONAL EROSION CONTROL MEASURES IF ENGINEER SO REQUIRES, TO PREVENT ANY, INCLUDING THE INCIDENTAL, DISCHARGE OF SILT-LADEN RUNOFF FROM EXITING THE SITE.

9. THE CONTRACTOR MUST BE RESPONSIBLE FOR INSPECTING AND MAINTAINING ALL EROSION CONTROL MEASURES ON THE SITE UNTIL PERMANENT PAVING AND TURF/LANDSCAPING IS ESTABLISHED. THE COSTS OF INSTALLING AND MAINTAINING THE EROSION CONTROL MEASURES MUST BE INCLUDED IN THE BID PRICE FOR THE SITE WORK AND THE CONTRACTOR IS RESPONSIBLE FOR ALL SUCH COSTS.

10. THE CONTRACTOR MUST CONTINUE TO MAINTAIN ALL EROSION CONTROL MEASURES UNTIL THE COMPLETION OF CONSTRUCTION AND THE ESTABLISHMENT OF VEGETATION.

11. THE CONTRACTOR MUST REMOVE EROSION CONTROL MEASURES, SILT AND DEBRIS AFTER ESTABLISHING PERMANENT VEGETATION COVER OR OTHER INSTALLING A DIFFERENT, SPECIFIED METHOD OF STABILIZATION.

12. THIS PLAN REPRESENTS THE MINIMUM LEVEL OF IMPLEMENTATION OF TEMPORARY EROSION AND SEDIMENTATION CONTROL FACILITIES, MEASURES AND STRUCTURES. ADDITIONAL FACILITIES, MEASURES AND STRUCTURES MUST BE INSTALLED WHERE NECESSARY TO COMPLY WITH ALL APPLICABLE CODES AND STANDARDS AND/OR TO PREVENT ANY, INCLUDING THE INCIDENTAL DISCHARGE OF SILT-LADEN RUNOFF FROM EXITING THE SITE.

13. THE CONTRACTOR MUST PROTECT ALL EXISTING TREES AND SHRUBS. THE CONTRACTOR MUST REFER TO THE LANDSCAPE AND/OR DEMOLITION PLAN(S) FOR TREE PROTECTION, FENCE LOCATIONS AND DETAILS.

14. THE CONTRACTOR MUST REFER TO GRADING PLANS FOR ADDITIONAL INFORMATION.

15. THE CONTRACTOR MUST CLEAN EXISTING AND PROPOSED DRAINAGE STRUCTURES AND INTERCONNECTING PIPES ON OR OFF-SITE AS THE JURISDICTIONAL AGENCY REQUIRES, BOTH AT THE TIME OF SITE STABILIZATION AND AT END OF PROJECT.

16. SOIL EROSION CONTROL MEASURES MUST BE ADJUSTED OR RELOCATED BY THE CONTRACTOR AS IDENTIFIED DURING SITE OBSERVATION IN ORDER TO MAINTAIN THE COMPLETE EFFECTIVENESS OF ALL CONTROL MEASURES.

17. THE CONTRACTOR MUST IDENTIFY, ON THE PLAN, THE LOCATION OF WASTE CONTAINERS, FUEL STORAGE TANKS, CONCRETE WASHOUT AREAS AND ANY OTHER LOCATIONS WHERE HAZARDOUS MATERIALS ARE STORED.

RECOMMENDED CONSTRUCTION SEQUENCE

N.T.S.

THE FOLLOWING CONSTRUCTION SEQUENCE IS RECOMMENDED:

-INSTALLATION OF STABILIZED CONSTRUCTION ENTRANCE/EXIT (AS SHOWN)

-INSTALLATION OF EROSION CONTROL BARRIER (STRAW BALES AND SILT FENCE) (AS SHOWN)

-DEMOLITION OF EXISTING SITE STRUCTURES (SEE DEMOLITION PLAN)

-DEMOLITION OF EXISTING SITE PAVEMENT AND AMENITIES (SEE DEMOLITION PLAN)

-CLEARING AND GRUBBING

-INSTALLATION OF TEMPORARY SWALES AND SEDIMENT BASINS

-EARTHWORK AND EXCAVATION/FILLING AS NECESSARY

-CONSTRUCTION OF UTILITIES

-INSTALLATION OF INLET PROTECTION OF ON-SITE UTILITIES (AS SHOWN)

-CONSTRUCTION OF ARRAY RACKS AND EQUIPMENT PADS.

-CONSTRUCTION OF TRANSFORMERS, ELECTRICAL EQUIPMENT, ARRAY INSTALLATION AND WIRING.

-SPREAD TOPSOIL ON SLOPED AREAS AND SEED AND MULCH

-FINAL GRADING OF ALL SLOPED AREAS

-PLACE 6" TOPSOIL ON SLOPES AFTER FINAL GRADING COMPLETED. FERTILIZE, SEED, AND MULCH SEED MIXTURE TO BE INSTALLED AS REQUIRED.

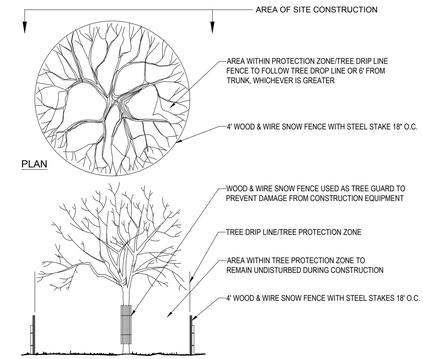
-REMOVAL OF THE TEMPORARY SEDIMENT BASINS AND ACCUMULATED SEDIMENT.

-SCARIFY BASIN BOTTOM TO PREVENT COMPACTION AND PROMOTE INFILTRATION.

-REMOVE EROSION CONTROLS AS DISTURBED AREAS BECOME STABILIZED TO 70% STABILIZATION OR GREATER

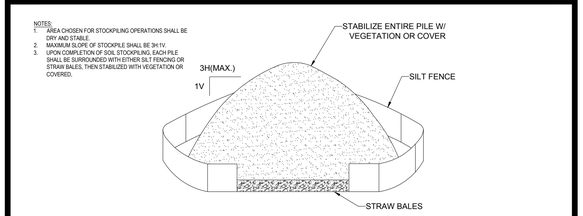
TREE PROTECTION DURING SITE CONSTRUCTION

N.T.S.



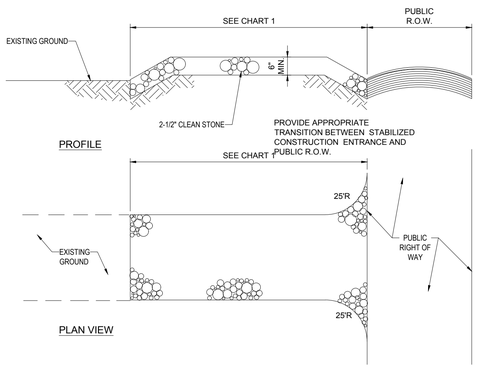
N.T.S.

TEMPORARY STOCKPILE



N.T.S.

STABILIZED CONSTRUCTION ENTRANCE



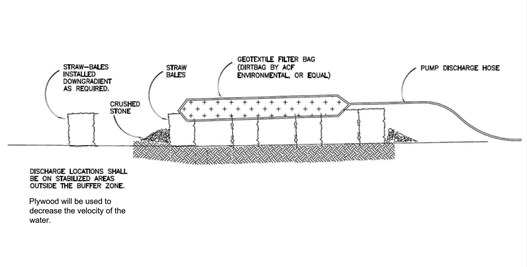
PERCENT SLOPE OF ROADWAY	LENGTH OF STONE REQUIRED	
	COARSE GRAINED SOILS	FINE GRAINED SOILS
0 TO 2%	50 FT	100 FT
2% TO 5%	100 FT	200FT
>5%	ENTIRE ENTRANCE STABILIZED WITH FABC BASE COURSE (1)	

(1) AS PRESCRIBED BY LOCAL ORDINANCE OR OTHER GOVERNING AUTHORITY.

CHART 1

N.T.S.

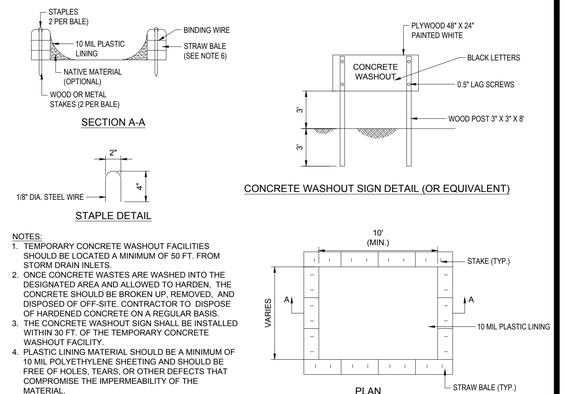
DEWATERING GEOTEXTILE FILTER BAG DETAIL



Plywood will be used to decrease the velocity of the water.

N.T.S.

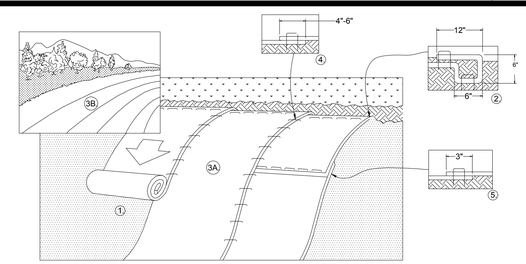
CONCRETE WASTE MANAGEMENT AREA



NOTES:
1. TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE LOCATED A MINIMUM OF 50 FT. FROM STORM DRAIN INLETS.
2. ONCE CONCRETE WASTES ARE WASHED INTO THE DESIGNATED AREA AND ALLOWED TO HARDEN, THE CONCRETE SHOULD BE BROKEN UP, REMOVED, AND DISPOSED OF OFF-SITE. CONTRACTOR TO DISPOSE OF HARDENED CONCRETE ON A REGULAR BASIS.
3. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
4. PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
5. WASHOUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL.
6. STRAW BALE AND STAPLES MAY BE SUBSTITUTED WITH ALTERNATE SECURING MEASURES SUCH AS CONCRETE BLOCK.

N.T.S.

EROSION CONTROL BLANKET 2:1 SLOPES (SLOPE INSTALLATION)

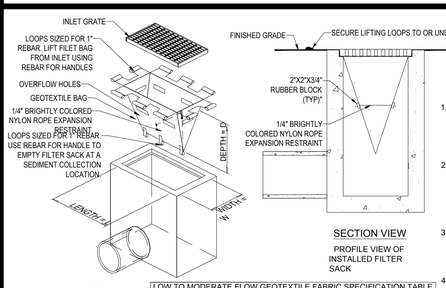


1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH AS SHOWN IN DETAIL 3. 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 1" 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 PER MANUFACTURERS RECOMMENDATION.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH MINIMUM 8" OVERLAP. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE 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. PLACE STAPLES/STAKES PER MANUFACTURER'S RECOMMENDATION FOR THE APPROPRIATE SLOPE BEING APPLIED.

NOTES:
1. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
2. FOLLOW EROSION CONTROL TECHNOLOGY COUNCIL SPECIFICATION FOR PRODUCT SELECTION.

N.T.S.

FILTER SACS (GRATED INLETS)



1. REMOVE TRAPPED SEDIMENT WHEN BRIGHTLY COLORED EXPANSION RESTRAINT CAN NO LONGER BE SEEN.
2. GEOTEXTILE SHALL BE A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS REQUIREMENTS IN THE SPECIFICATIONS TABLE.
3. PLACE AN OIL ADSORBENT PAD OR PILLOW OVER INLET GRATE WHEN OIL SPILLS ARE A CONCERN.
4. INSPECT PER REGULATORY REQUIREMENTS.
5. THE WIDTH, "W", OF THE FILTER SACK SHALL MATCH THE INSIDE WIDTH OF THE GRATED INLET BOX.
6. THE DEPTH, "D", OF THE FILTER SACK SHALL BE BETWEEN 18 INCHES AND 36 INCHES.
7. THE LENGTH, "L", OF THE FILTER SACK SHALL MATCH THE INSIDE LENGTH OF THE GRATED INLET BOX.

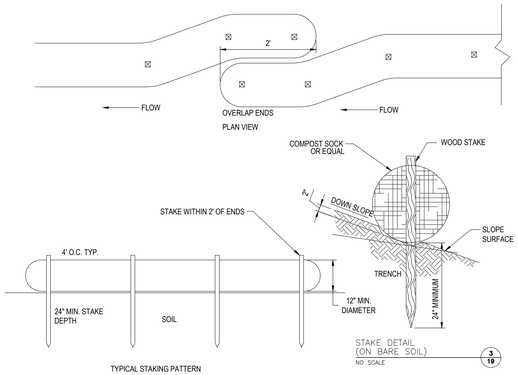
LOW TO MODERATE FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	80%
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	0.55 SEC^{-1}
MODERATE TO HIGH FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90%
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC^{-1}

NOTE:
DO NOT USE IN PAVED AREAS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

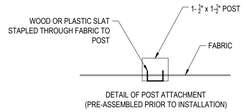
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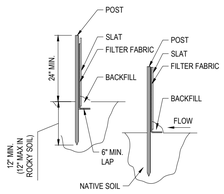
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LAND SURVEYING
P

EROSION CONTROL BARRIER SHALL CONSIST OF BOTH COMPOST SOCK AND SILT FENCE UNLESS OTHERWISE NOTED

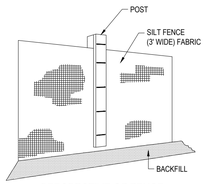


COMPOST SOCK





TOE-IN METHODS



PERSPECTIVE OF FENCE

SILT FENCE

INSTALLATION:
1. EXCAVATE A 6"x 6" TRENCH ALONG THE LINE OF EROSION CONTROL OF THE SITE.
2. UNROLL SILTATION FENCE AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH (NET SIDE AWAY FROM FLOW DIRECTION).
3. DRIVE THE POST INTO THE GROUND UNTIL THE NETTING IS LAYING ACROSS THE TRENCH BOTTOM.
4. LAY THE TOE-IN FLAP OF THE FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH, BACKFILL THE TRENCH AND TAMP THE SOIL. TOE-IN CAN ALSO BE ACCOMPLISHED BY LAYING FABRIC FLAP ON UNDISTURBED GROUND AND PILING & TAMP- ING FILL AT THE BASE.
5. COMBINATION OF COMPOST SOCK AND SILT FENCE SHALL BE USED AS NOTED ON THE PLAN.
6. WIRE BACK SILT FENCE TO BE USED IN AREAS WITHIN 50 FOOT WETLAND BUTTER, SEE DETAIL (THIS SHEET).

EROSION CONTROL BARRIER (ECB) DETAIL

N.T.S.

P:\2023\01257\CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\W201257-EROS-4A.----LAYOUT C-609-ENOTE

APP

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3	7/19/2023	PER SURVEY UPDATES	AP / GD
4	8/01/2023	PARCEL AREA REFERENCES	AP / GD

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PROJECT No.: W201257
DRAWN BY: EVD / CMC / OCR
CHECKED BY: GD
DATE: 04/13/2023
CAD I.D.: W201257-EROS-4A

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR

NEXTGRID MESCALBEAN LLC

PROPOSED SOLAR FARM

LOTS INCLUDED (PARCEL #):239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009
160 MAPLE STREET,
TOWN OF BELLINGHAM & FRANKLIN, NORFOLK COUNTY, MASSACHUSETTS

BOHLER
352 TURNPIKE ROAD
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www.BohlerEngineering.com

COMMONWEALTH OF MASSACHUSETTS
JOHN A. KUCHARSKI
CIVIL
No. 41530
REGISTERED PROFESSIONAL ENGINEER

SHEET TITLE:
EROSION & SEDIMENT CONTROL NOTES & DETAILS

SHEET NUMBER:
C-609

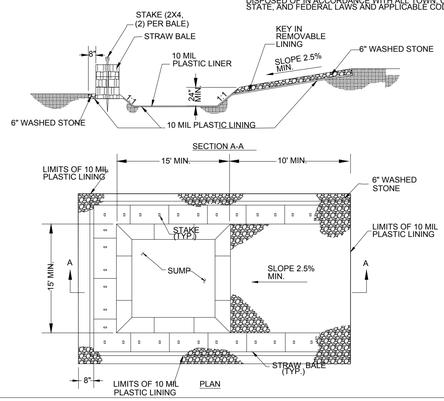
REVISION 4 - 8/01/2023

CONCRETE WASHOUT DETAIL

N.T.S.

NOTES:

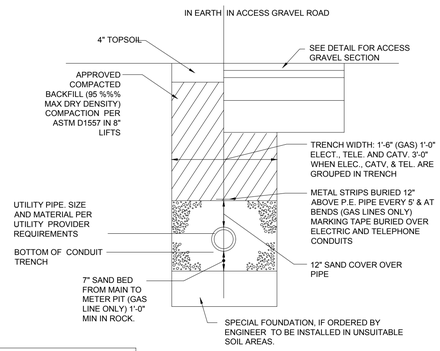
1. PIT IS SPECIFICALLY DESIGNATED, DIKED AND IMPERVIOUS CONTAINMENT TO PREVENT CONTACT BETWEEN CONCRETE WASH AND STORMWATER.
2. WASH WATER SHALL NOT BE ALLOWED TO FLOW TO SURFACE WATER.
3. FACILITY MUST HOLD SUFFICIENT VOLUME TO CONTAIN CONCRETE WASTE WITH A MINIMUM FREEBOARD OF 12."
4. FACILITY SHALL NOT BE FILLED BEYOND 95% CAPACITY UNLESS A NEW FACILITY IS CONSTRUCTED.
5. SAW CUT PORTLAND CEMENT CONCRETE. RESIDUE FROM SAWCUT & GRINDING TO BE DISPOSED OF IN THE PIT.
6. MANUFACTURED CONCRETE WASHOUT DEVICES MAY BE USED IF REMOVED FROM THE SITE WHEN 95% FULL CAPACITY.
7. DEBRIS FROM THE VEHICLE WASH AREA SHALL NOT BE BURIED ON THE VEHICLE WASH AREA. DEBRIS SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, COUNTY, STATE, AND FEDERAL LAWS AND APPLICABLE CODES.



ALTERNATIVE ELECTRICAL TRENCH DETAIL

N.T.S.

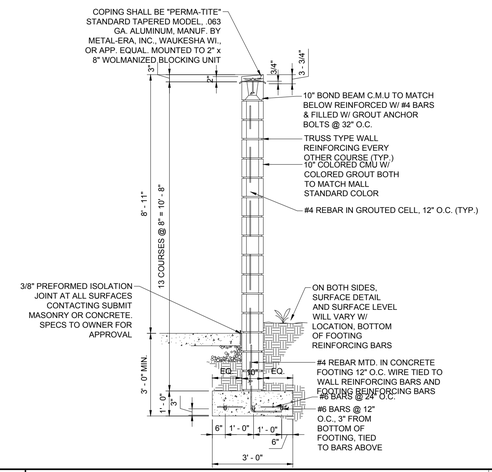
NOTE: THE CONTRACTOR IS DIRECTED AND RESPONSIBLE TO SLOPE AND/OR SHIELD THE TRENCH EXCAVATION IN ACCORDANCE WITH ALL APPLICABLE OSHA REGULATIONS.



NOTE:
ALL PROPOSED UNDERGROUND UTILITIES THAT FALL WITHIN THE EXISTING ELECTRIC EASEMENTS SHALL BE AASHTO HS-25 RATED.

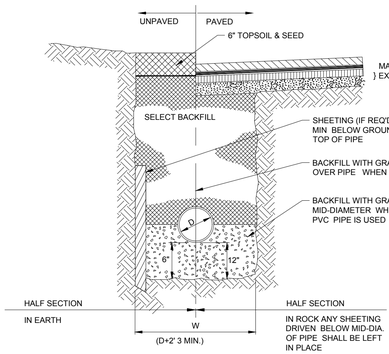
CMU AREA SCREEN WALL

N.T.S.



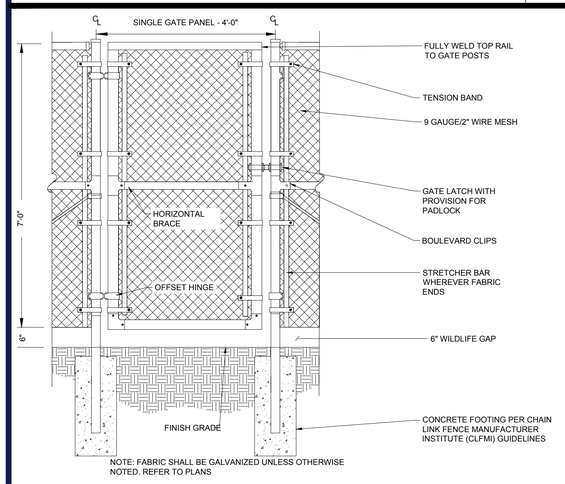
TYPICAL UTILITY TRENCH

N.T.S.



7' ACCESS GATE WITH WILDLIFE GAP

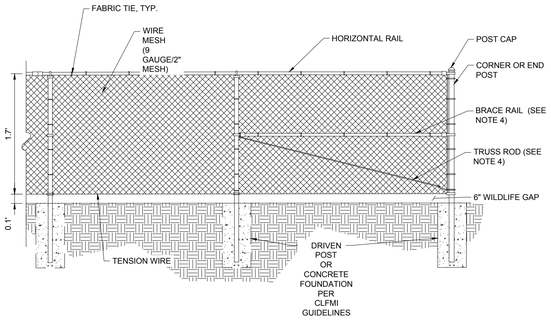
N.T.S.



NOTE: FABRIC SHALL BE GALVANIZED UNLESS OTHERWISE NOTED. REFER TO PLANS

7' CHAIN LINK FENCE WITH WILDLIFE GAP

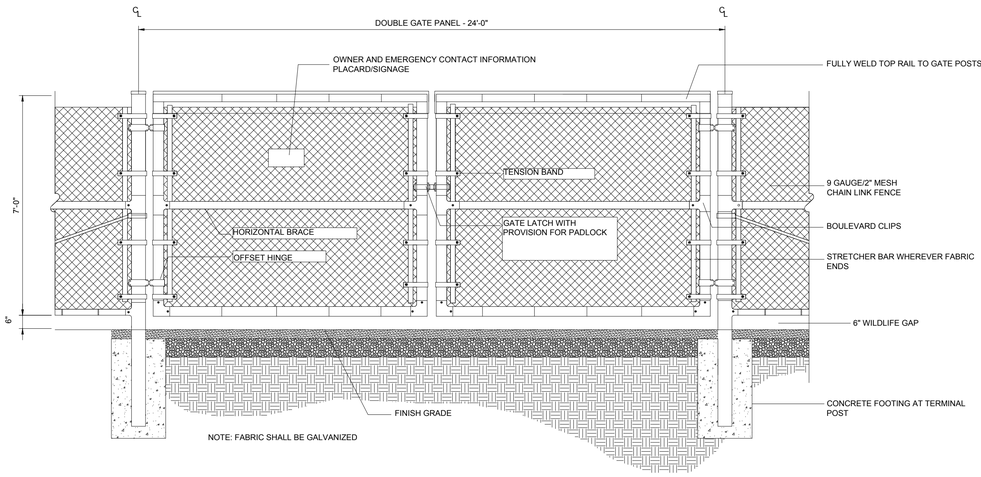
N.T.S.



NOTES:
1. THE FENCE SHALL MEET OR EXCEED THE CHAIN LINK FENCE MANUFACTURER INSTITUTE (CLFMI) GUIDELINES AND RELATED FEDERAL SPECIFICATIONS FOR SECURITY CHAIN LINK FENCE MATERIALS AND INSTALLATION.
2. FENCE MATERIAL AND COMPONENTS SHALL BE GALVANIZED, UNLESS OTHERWISE NOTED.
3. THIS DETAIL NOT APPLICABLE FOR PRIVACY FENCE OR FENCE WITH SLATS.
4. ADJUSTABLE TRUSS ROD AND BRACE RAIL AT CORNER OR END POSTS ONLY, IF REQUIRED BY CLFMI GUIDELINES.

24' WIDE DOUBLE SWING GATE WITH WILDLIFE GAP

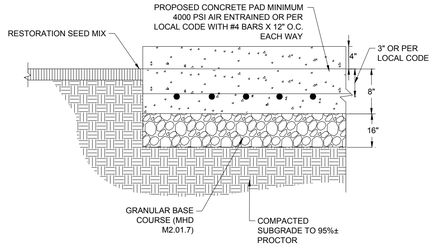
N.T.S.



NOTE: FABRIC SHALL BE GALVANIZED

CONCRETE PAD FOR EQUIPMENT

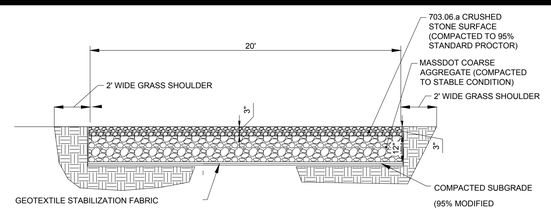
N.T.S.



NOTES:
1. SEE SITE PLAN FOR WIDTH AND GRADES
2. PROVIDE MINIMUM 1/8"/FT. CROSS-SLOPE
3. PROVIDE CONTROL JOINTS 10'- 0" O.C. MIN.
4. PROVIDE EXPANSION JOINTS 20'- 0" O.C. MIN.

ACCESS GRAVEL ROAD

N.T.S.

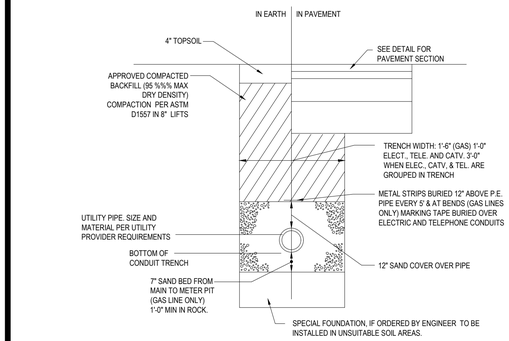


NOTES:
1. SUBCONTRACTOR SHALL EXCAVATE TO SUITABLE MATERIAL FOR SUBGRADE.
2. SUBCONTRACTOR SHALL COMPACT SUBGRADE TO PROVIDE SUITABLE SURFACE TO PLACE ROAD. (95% MODIFIED PROCTOR). 3RD PARTY COMPACTION TESTING IS REQUIRED AT GRAVEL ACCESS ROAD AS FURTHER NOTED PER "ADDITIONAL NOTE 13.2' ON SHEET C-0.0. REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION CRITERIA.
3. SUBCONTRACTOR SHALL FOLLOW MANUFACTURER INSTALLATION PROCEDURES.
4. WHERE OVERLAPPING OF GEOTEXTILE FABRIC IS REQUIRED, SUBCONTRACTOR SHALL OVERLAP A MINIMUM OF 24".
5. SUBCONTRACTOR SHALL REMOVE TEMPORARY CONSTRUCTION ACCESS ROADS, AND RESTORE TO PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE CEOR AND THE GOVERNING AGENCIES.
6. SUBCONTRACTOR SHALL INSTALL CONDUITS FOR ALL ELECTRICAL CONDUIT CROSSINGS PRIOR TO INSTALLATION OF THE GEOTEXTILE MATERIAL. THE GEOTEXTILE SHALL NOT BE HORIZONTALLY CUT ONCE INSTALLED.
7. THE PROPOSED ACCESS ROAD SHALL HAVE A MAXIMUM RUNNING SLOPE OF 10%. PLEASE REFER TO THE GRADING PLAN FOR MORE INFORMATION.

PRIMARY ELECTRICAL TRENCH DETAIL

N.T.S.

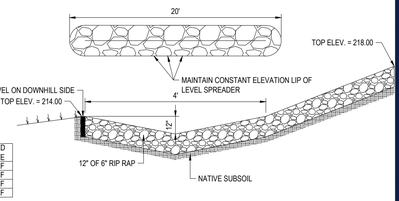
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LEVEL SPREADER

N.T.S.



STORM	TOTAL FLOW RATE	DISSIPATED FLOW RATE
2 YR STORM	2.84 CFS	0.14 CFS/LF
10 YR STORM	5.35 CFS	0.27 CFS/LF
25 YR STORM	6.59 CFS	0.33 CFS/LF
100 YR STORM	16.20 CFS	0.81 CFS/LF

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CAD I.D.: W201257-DETL-4A

PROJECT:

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FOR

NEXTGRID MESCALBEAN LLC

PROPOSED SOLAR FARM

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160 MAPLE STREET,
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NEW HAMPSHIRE LICENSE No. 15476
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MAINE LICENSE No. 22553

SHEET TITLE:

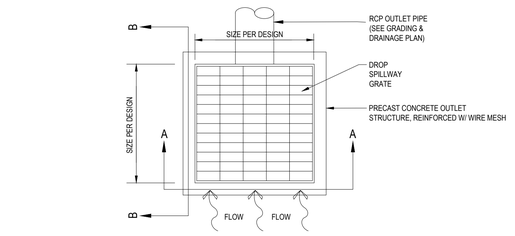
DETAIL SHEET

SHEET NUMBER:

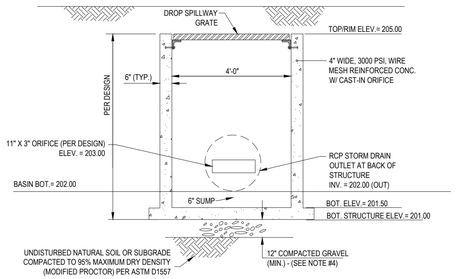
C-901

REVISION 4 - 8/01/2023

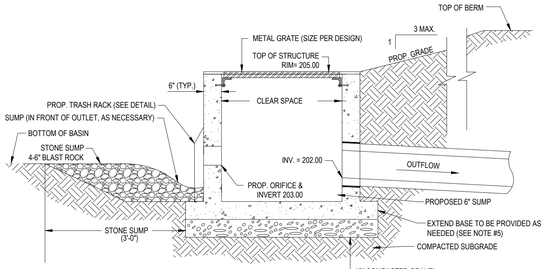
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TOP VIEW



SECTION A-A

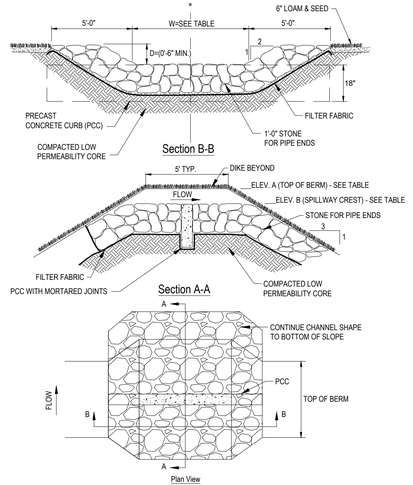


SECTION B-B

NOTES:
1. CONTRACTOR TO SUBMIT SHOP DRAWING TO ENGINEER (BOHLER) FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
2. IF COMPONENTS ARE PRECAST AND ATTACHED IN THE FIELD ALL JOINTS TO BE FILLED WITH NON-SHRINK GROUT. ANY BOLTS AND/OR STRAPS SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED.
3. GENERAL CONTRACTOR TO CONSTRUCT CONCRETE OUTLET CONTROL STRUCTURE TO MINIMIZE VISUAL REVEAL OF CONCRETE.
4. IN LOCATIONS WHERE UTILTY TRENCHING / EXCAVATION ENCOUNTERS SUBGRADE CONDITIONS CONSISTING OF FILL OR UNSUITABLES / ORGANICS, 3'-0" OF MATERIAL SHALL BE OVER-EXCAVATED BELOW THE PIPE / STRUCTURE INVERT. TRENCH SHALL THEN BE BACKFILLED WITH CRUSHED STONE WRAPPED IN FILTER FABRIC.
5. CONTRACTOR SHALL PREPARE AND SUBMIT DETAILS AND CALCULATIONS FOR PROPER BUOYANCY PROVISIONS BASED ON SITE GROUNDWATER CONDITIONS.
6. CONTRACTOR SHALL SIZE STRUCTURE AS NECESSARY TO ACCOMMODATE THE PROPOSED PIPE SIZES AND PENETRATIONS USING GEOMETRY SHOWN ON THE GRADING AND DRAINAGE PLANS AS WELL AS INFORMATION PROVIDED IN THIS DETAIL

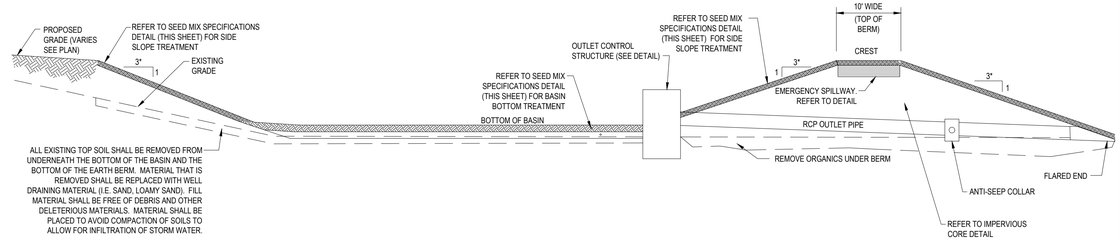
TYPICAL SURFACE BASIN OUTLET CONTROL STRUCTURE DETAIL

N.T.S.



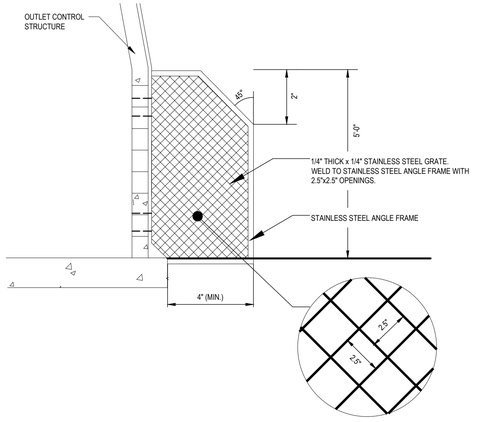
DETENTION BASIN EMERGENCY SPILLWAY

N.T.S.



TYPICAL DETENTION BASIN CROSS SECTION DETAIL

N.T.S.



TRASH RACK DETAIL

N.T.S.

"NATIVE DETENTION AREA MIX" AS PREPARED BY:

ERNST CONSERVATION SEEDS, INC.
8884 MERCER PIKE, MEADVILLE, PA 16335
PHONE: 800-873-3321 / 814-336-2404
EMAIL: SALES@ERNSTSEED.COM
WEBSITE: WWW.ERNSTSEED.COM

APPLICATION RATE: 1/2 LB. / 1000 SQ. FT. (20 LBS. / ACRE)

MIX COMPOSITION:
25.0% PANICUM VIRGATUM, 'SHELTER' (SWITCHGRASS, 'SHELTER')
24.0% PANICUM CLANDESTINUM, 'TIOGA' (DEERTONGUE, 'TIOGA')
22.0% CAREX VULPINOIDEA, PA ECOTYPE (FOX SEDGE, PA ECOTYPE)
21.0% ELYMUS VIRGINICUS, PA ECOTYPE (VIRGINIA WILDRYE, PA ECOTYPE)
6.0% AGROSTIS PERENNANS, ALBANY PINE BUSH-NY ECOTYPE (AUTUMN BENTGRASS, ALBANY PINE BUSH-NY ECOTYPE)
1.0% JUNCUS EFFUSUS (SOFT RUSH)
1.0% PANICUM RIGIDULUM, PA ECOTYPE (REDTOP PANICGRASS, PA ECOTYPE)

"QUICK EROSION CONTROL COVER MIX" AS PREPARED BY:

ERNST CONSERVATION SEEDS, INC.
8884 MERCER PIKE, MEADVILLE, PA 16335
PHONE: 800-873-3321 / 814-336-2404
EMAIL: SALES@ERNSTSEED.COM
WEBSITE: WWW.ERNSTSEED.COM

APPLICATION RATE: 50 LBS. / ACRE

MIX COMPOSITION:
50.0% Lolium multiflorum (Annual Ryegrass)
50.0% Lolium perenne, 'Blackcat II' (Perennial Ryegrass)

BASIN SEED MIX SPECIFICATIONS

N.T.S.

"NEW ENGLAND SHOWY WILDFLOWER SEED MIX" AS PREPARED BY:

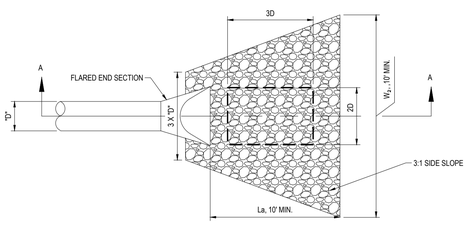
NEW ENGLAND WETLAND PLANTS, INC
820 WEST STREET, AMHERST, MA 01002
PHONE: 413-548-8000
EMAIL: INFO@NEWP.COM
WEBSITE: WWW.NEWP.COM

APPLICATION RATE: 23 lbs/acre | 1900 sq ft/lb

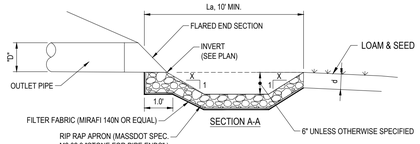
SPECIES Little Bluestem (Schizachyrium scoparium), Red Fescue (Festuca rubra), Indian Grass (Sorghastrum nutans), Partridge Pea (Chamaecrista fasciculata), Canada Wild Rye (Elymus canadensis), Riverbank Wild Rye (Elymus riparius), Butterfly Milkweed (Asclepias tuberosa), Black Eyed Susan (Rudbeckia hirta), Lance Leaved Coreopsis (Coreopsis lanceolata), Ox Eye Sunflower (Heliopsis helianthoides), Common Sneezeweed (Helenium autumnale), Marsh Blazing Star (Liatris spicata), Blue Vervain (Verbena hastata), New England Aster (Aster novae-angliae), Wild Blue False Indigo (Baptisia australis), HollowStem Joe Pye Weed (Eupatorium fistulosum/ Eutrochium fistulosum), Early Goldenrod (Solidago juncea).

NEW ENGLAND SHOWY WILDFLOWER SEED MIX SPECIFICATIONS

N.T.S.



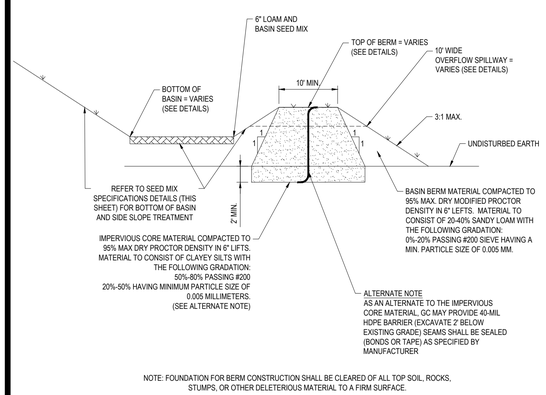
PLAN VIEW



NOTE: PROTECTIVE BARRIERS SHALL BE PROVIDED AT THE OUTLET END OF ALL OUTFALL DRAINAGE PIPES GREATER THAN 15-INCHES.

FLARED END SECTION WITH RIP RAP APRON / SCOUR HOLE DETAIL

N.T.S.

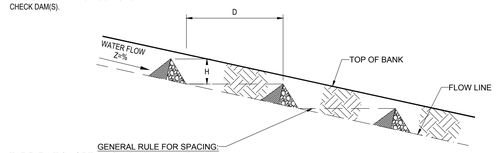


NOTE: FOUNDATION FOR BERM CONSTRUCTION SHALL BE CLEARED OF ALL TOP SOIL, ROCKS, STUMPS, OR OTHER DELETERIOUS MATERIAL TO A FIRM SURFACE.

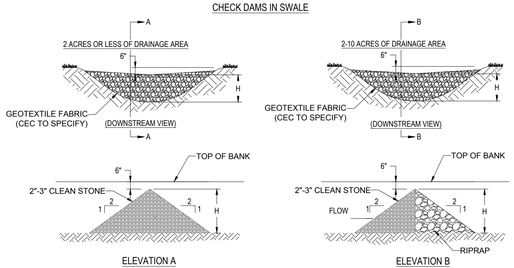
BASIN IMPERVIOUS CORE DETAIL

N.T.S.

NOTE: SEE SITE MAP FOR LOCATION OF CHECK DAM(S).



CHECK DAMS IN SWALE



ROCK CHECK DAM

N.T.S.

BOHLER
SITE CIVIL AND CONSULTING ENGINEERING
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PROJECT No.: W201257
DRAWN BY: EVD / CMC / OCR
CHECKED BY: GD
DATE: 04/13/2023
CAD I.D.: W201257-DETL-4A

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR

NEXTGRID MESCALBEAN LLC

PROPOSED SOLAR FARM

LOTS INCLUDED (PARCEL #):239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009
160 MAPLE STREET, TOWN OF BELLINGHAM & FRANKLIN, NORFOLK COUNTY, MASSACHUSETTS

BOHLER
352 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
Phone: (508) 480-9900
www.BohlerEngineering.com

COMMONWEALTH OF MASSACHUSETTS — JOHN KUCEWICZ — CIVIL — No. 41530 — REGISTERED PROFESSIONAL ENGINEER

MASSACHUSETTS No. 41530
NEW HAMPSHIRE No. 20476
CONNECTICUT No. PEC.0029177
RHODE ISLAND No. 9616
MAINE LICENSE No. 32553

SHEET TITLE:

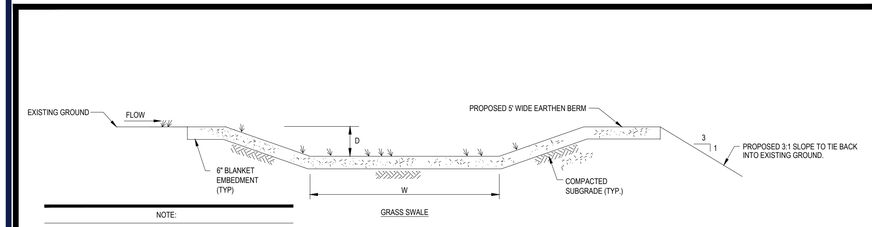
DETAIL SHEET

SHEET NUMBER:

C-902

REVISION 4 - 8/01/2023

P:\2019\01257\CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\W201257-DETL-4A.----LAYOUT: C-902-DETL



NOTE:

1. GEOTECHNICAL FABRIC TO BE INSTALLED FOR SLOPE STABILIZATION WHERE SLOPES EXCEED 4%.
2. SEED MIX FOR GRASSED SWALES SHALL CONSIST OF THE FOLLOWING:
   - 70% RED FESCUE
   - 15% PERENNIAL RYE GRASS
   - 15% BIRDS FOOT TREFOIL
3. REFER TO GRADING PLANS FOR MORE INFORMATION.

GRASSED SWALE WITH EARTHEN BERM

N.T.S.

The Most Reliable Solar Lighting in the World

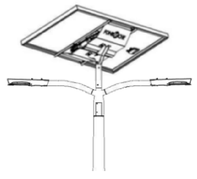
We keep our solutions simple with Smartlight—one proven, powerful solar light that meets a wide range of needs. Its unique black solar panel looks elegant, day or night. No hanging wires or bulky battery box. No solar panel that looks like a high school science project. We use powerful components and smart controls to provide all the energy you need in a sleek package, so you can count on all-night lighting all year around.

175,000
SmartLight Systems Installed Worldwide

365
Nights of Lighting per Year Guaranteed

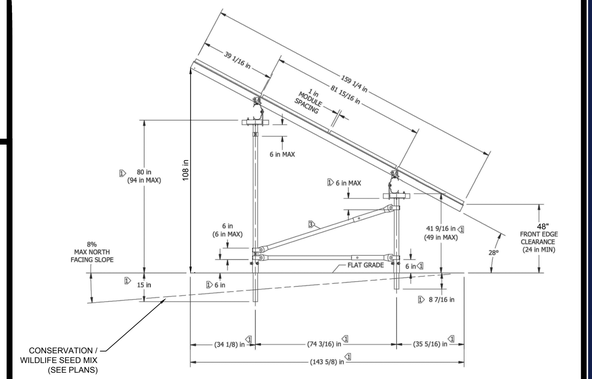
5 Years
Warranty, Including the Battery With No Pro-Rating

$0
Zero Trenching Cost, Zero Electric Bills and Zero Maintenanc



SMARTLIGHT TWIN CK 16B STREET LIGHT

N.T.S.

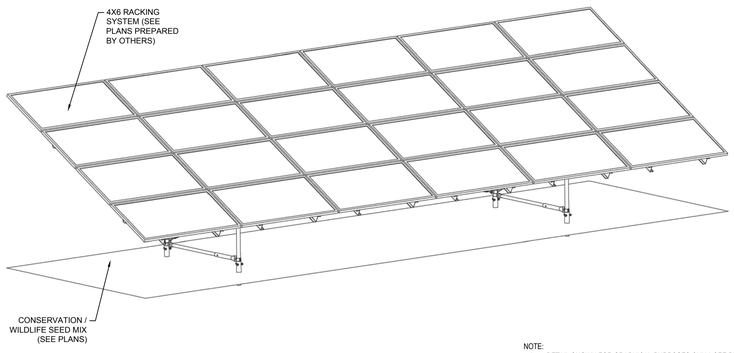


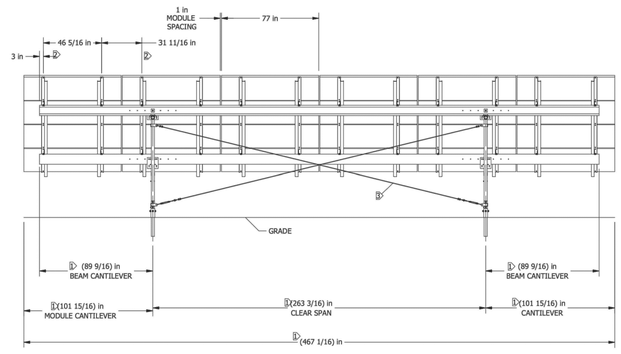
SIDE ELEVATION VIEW

NOTE:
1. DETAIL SHOWN FOR GRAPHICAL PURPOSES ONLY. SEE PLANS PREPARED BY OTHERS FOR PANEL SPECIFICATIONS.
2. TYPICAL INSTALLATION DIMENSIONS MAY BE ADJUSTED TO SUIT FIELD CONDITIONS

TYPICAL PANEL CROSS-SECTION DETAIL

N.T.S.

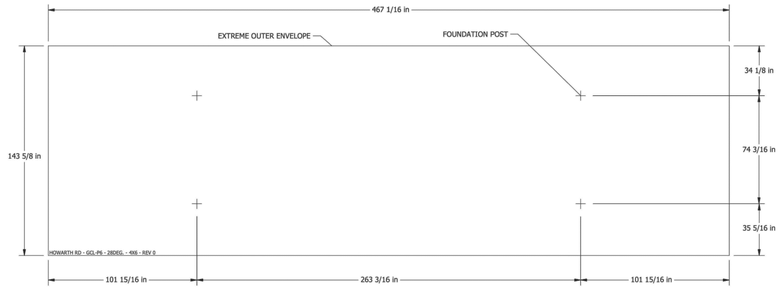




NOTE:
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RACKING SYSTEM DETAIL

N.T.S.



NOTE:
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2. TYPICAL INSTALLATION DIMENSIONS MAY BE ADJUSTED TO SUIT FIELD CONDITIONS

PANEL LAYOUT DETAIL

N.T.S.

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LAND SURVEYING
PROGRAM MANAGEMENT
LANDSCAPE ARCHITECTURE
SUSTAINABLE DESIGN
PERMITTING SERVICES
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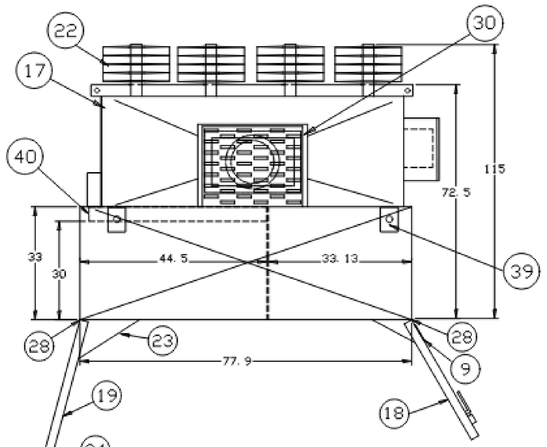
DETAIL SHEET

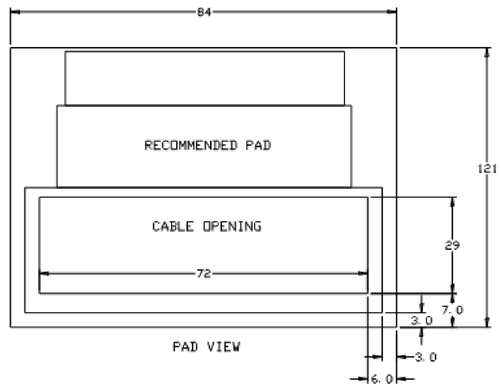
SHEET NUMBER:

C-903

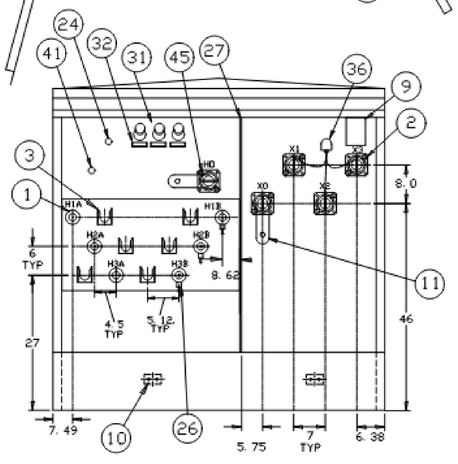
REVISION 4 - 8/01/2023

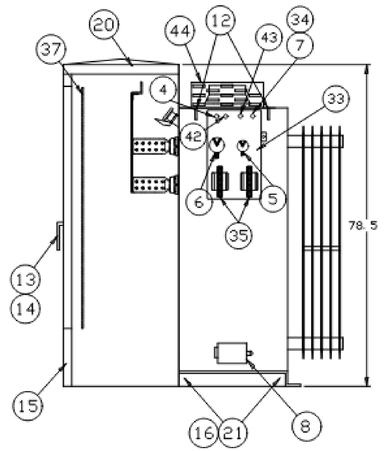
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PAD VIEW





THIS OUTLINE IS FOR ERECTION OR MOUNTING PURPOSES. IT IS NOT TO SCALE AND SHOULD NOT BE REGARDED AS INDICATING THE EXACT DETAILS OF CONSTRUCTION.

01 HIGH VOLTAGE BUSHING NON-LOADBREAK 600AMP 125KV BIL (EATON DB625B125)
02 LOW VOLTAGE INTEGRAL EPOXY BUSHING WITH 10 HOLE IEEE BRASS SPADE, SUPPORTED.
03 PARKING STAND
04 PRESSURE RELIEF VALVE (VIAT 302-060-01N)
05 LIQUID LEVEL GAUGE W/CONTACTS (2 SETS) VIAT
06 OIL TEMPERATURE GAUGE W/CONTACTS (2 SETS) QUALITROL
07 OIL FILL - 1"NPT
08 OIL DRAIN VALVE WITH SAMPLER IN PADLOCKABLE BOX
09 NAMEPLATES
10 2 HOLE SST. GROUND PADS
11 LV GROUND STRAP
12 LIFTING LUGS
13 PADLOCK FACILITY AND DOOR BOLT WITH PENTAHEAD BOLTS
14 LV DOOR HANDLE
15 REMOVEABLE FRONT LOWER SILL
16 BASE ARRANGEMENT FOR ROLLING IN 2 DIRECTIONS
17 TRANSFORMER TANK
18 LOW VOLTAGE COMPARTMENT DOOR
19 HIGH VOLTAGE COMPARTMENT DOOR
20 DOMED & RAISED AIR COMPARTMENT TOP
21 JACKING PROVISIONS
22 COOLING RADIATORS
23 DOOR HOLDING BARS IN 120° OPEN POSITION
24 TAPCHANGER 'B' TAPS +5%,+2.5%,-2.5%,-5% 200KV BIL 150 AMP SILVER PLATED (CAPT 099-04.87.315RFM-AH)
25 PAINT MUNSELL GREEN 7GY3.29/1.5
26 DISTRIBUTION CLASS ELBOW ARRESTER 10KV 8.4 MCOV 25CL 600AMP (SHIPPED DETAIL ON PALLET) (T&B K655ESA-10)
27 HIGH-LOW BARRIER
28 STAINLESS STEEL HINGES
29 ALL BUSHINGS ARE EXTERNALLY CLAMPED
30 14"X24" HANDHOLE
31 BAYONET FUSEHOLDER W/FLAPPER VALVE AG PLATED BAYONET FUSE HI-AMP 125A (EATON 4038361C05CB)
32 PLASTIC DRIPSHIELD
33 PADLOCK-ABLE GAUGE BOX
34 PRESSURE VACUUM GAUGE WITH SCHRADER VALVE (VIAT 131)
35 TERMINAL BLOCKS FOR CONTACT TERMINATION 2-18 TERMINAL
36 SECONDARY ARRESTER 400MCOV (EATON ASZH480C301)
37 LEXAN LOW VOLTAGE FRONT BARRIER
38 PARTIAL RANGE CURRENT LIMITING FUSES 8.3KV 150A HITECH 2X(HTSS232150)
39 HOLD-DOWN BRACKETS WITH HOLES.
40 3" HIGH VOLTAGE BUSHING BOX.
41 2-POSITION LOAD-BREAK SWITCH (C.M.703436-60)
42 GEM PRESSURE SWITCH FACTORY SET TO +7PSI
43 GEM VACUUM SWITCH FACTORY SET TO -5PSI
44 COVER MOUNTED PRD 10PSI
45 PORCELAIN "HO" BUSHING WITH GROUND STRAP SHIPPED WITH NITROGEN BLANKET.

2000/2240 KVA
12470GrdY/7200
600Y/347
* PER IEEE, LV LEXAN/FIBERGLASS BARRIER REQUIRED, @ IS INCLUDED

2000kVA 12470Y TRANSFORMER DETAILS

N.T.S.

P:\BW\2021\257\CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\W201257-DETL-4A-----LAYOUT: C-904-DETL

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J. KUDISH — COMMONWEALTH OF MASSACHUSETTS — JOHN KUDISH — CIVIL — No. 41530 — REGISTERED PROFESSIONAL ENGINEER
NEW HAMPSHIRE No. 14476
CONNECTICUT No. 28177
RHODE ISLAND No. 06718
MAINE LICENSE No. 12553

SHEET TITLE:

DETAIL SHEET

SHEET NUMBER:

C-904

REVISION 4 - 8/01/2023

Three-Phase Transformers
CA202003EN

Effective April 2016
Supersedes 210-12 July 2015

COOPER POWER SERIES

Three-phase pad-mounted compartmental type transformer



General

At Eaton, we are constantly striving to introduce new innovations to the transformer industry, bringing you the highest quality, most reliable transformers. Eaton's Cooper Power series Transformer Products are ISO 9001 compliant, emphasizing process improvement in all phases of design, manufacture, and testing. In order to drive this innovation, we have invested both time and money in the Thomas A. Edison Technical Center, our premier research facility in Franksville, Wisconsin. Such revolutionary products as distribution-class UltraSIL™ Polymer-Housed Evolution™ surge arresters and Envirotemp™ FR3™ fluid have been developed at our Franksville lab.

With transformer sizes ranging from 45 kVA to 12 MVA and high voltages ranging from 2400 V to 46 kV, Eaton has you covered. From fabrication of the tanks and cabinets to winding of the cores and coils, to production of arresters, switches, tap changers, expulsion fuses, current limit fuses, bushings (live and dead) and molded rubber goods, Eaton does it all. Eaton's Cooper Power series transformers are available with electrical grade mineral oil or Envirotemp™ FR3™ fluid, a less-flammable and bio-degradable fluid. Electrical codes recognize the advantages of using Envirotemp™ FR3™ fluid both indoors and outdoors for fire sensitive applications. The bio-based fluid meets Occupational Safety and Health Administration (OSHA) and Section 450.23 NEC Requirements.

Powering Business Worldwide

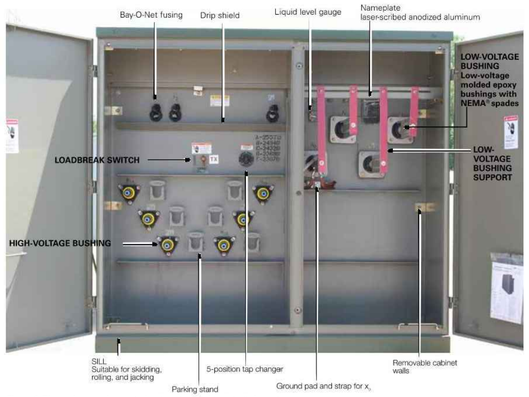


Figure 1. Three-phase pad-mounted compartmental type transformer.

Table 1. Product Scope

Type	Three Phase, 50 or 60 Hz, 65 °C Rise (55 °C, 55/65 °C), 65/75 °C, 75 °C
Fluid Type	Mineral oil or Envirotemp™ FR3™ fluid
Coil Configuration	2-winding or 4-winding or 3-winding (Low-High-Low), 3-winding (Low-Low-High)
Size	45 – 10,000 kVA
Primary Voltage	2,400 – 46,000 V
Secondary Voltage	208Y/120 V to 14,400 V
Specialty Designs	Inverter/Rectifier Bridge
	K-Factor (up to K-19)
	Vacuum Fault Interrupter (VFI)
	UL® Listed & Labeled and Classified
	Factory Mutual (FM) Approved®
	Solar/Wind Designs
	Differential Protection
	Seismic Applications (including OSHPD)
	Hardened Data Center

Table 2. Three-Phase Ratings

Three-Phase 50 or 60 Hz
kVA Available[1] 45, 75, 112.5, 150, 225, 300, 500, 750, 1000, 1500, 2000, 2500, 3000, 3750, 5000, 7500, 10000

[1]Transformers are available in the standard ratings and configurations shown or can be customized to meet specific needs.

Table 3. Impedance Voltage

	Low-voltage rating		
Rating (kVA)	**≤ 600 V**	**2400 Δ through 4800 Δ**	**6900 Δ through 13800GY/7970 or 13800 Δ**
45-75	2.70-5.75	2.70-5.75	2.70-5.75
112.5-300	3.10-5.75	3.10-5.75	3.10-5.75
500	4.35-5.75	4.35-5.75	4.35-5.75
750-2500	5.75	5.75	5.75
3750	5.75	5.75	6.00
5000		6.00	6.50

Note: The standard tolerance is ± 7.5%

Table 4. Audible Sound Levels

	NEMA® TR-1 Average
Self-Cooled, Two Winding kVA Rating	**Decibels (dB)**
45-500	56
501-700	57
701-1000	58
1001-1500	60
1501-2000	61
2001-2500	62
2501-3000	63
3001-4000	64
4001-5000	65
5001-6000	66
6001-7500	67
7501-10000	68

Table 5. Insulation Test Levels

KV Class	**Induced Test 180 or 400 Hz 7200 Cycle**	**kV BIL Distribution**	**Applied Test 60 Hz (kV)**
1.2	Twice Rated Voltage	30	10
2.5		45	15
5		60	19
8.7		75	26
15		95	34
25		125	40
34.5		150	50

Table 6. Temperature Rise Ratings 0-3300 Feet (0-1000 meters)

	Standard	**Optional**
Unit Rating (Temperature Rise Winding)	65 °C	55 °C, 55/65 °C, 75 °C
Ambient Temperature Max	40 °C	50 °C
Ambient Temperature 24 Hour Average	30 °C	40 °C
Temperature Rise Hotspot	80 °C	65 °C

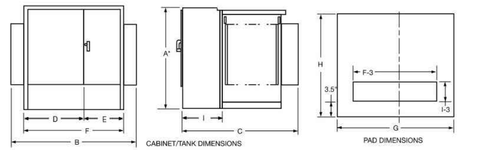


Figure 2. Transformer and pad dimensions.

* Add 9" for Bay-O-Net fusing.

Table 7. Fluid-filled—aluminum windings 55/65 °C Rise[1]

65° Rise	**DEAD-FRONT—LOOP OR RADIAL FEED—BAY-O-NET FUSING OIL FILLED—ALUMINUM WINDINGS**										
	OUTLINE DIMENSIONS (in.)									**Gallons of Fluid**	**Approx. Total Weight (lbs.)**
kVA Rating	**A***	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**		
45	50	68	39	42	26	68	72	43	20	110	2,100
75	50	68	39	42	26	68	72	43	20	115	2,250
112.5	50	68	49	42	26	68	72	53	20	120	2,350
150	50	68	49	42	26	68	72	53	20	125	2,700
225	50	72	51	42	30	72	76	55	20	140	3,150
300	50	72	51	42	30	72	76	55	20	160	3,850
500	50	89	53	42	30	72	93	57	20	190	4,650
750	64	89	57	42	30	72	93	61	20	270	6,500
1000	64	89	59	42	30	72	93	63	20	350	8,200
1500	73	89	86	42	30	72	93	90	24	410	10,300
2000	73	72	87	42	30	72	76	91	24	490	12,500
2500	73	72	99	42	30	72	76	103	24	530	14,500
3000	73	84	99	46	37	84	88	103	24	620	16,700
3750	84	85	108	47	38	85	88	112	24	660	19,300
5000	84	96	108	48	48	96	100	112	24	930	25,000
7500	94	102	122	54	48	102	100	126	24	1,580	41,900

[1] Weights, gallons of fluid, and dimensions are for reference only and not for construction. Please contact Eaton for exact dimensions.

* Add 9" for Bay-O-Net fusing.

Table 8. Fluid-Filled—Copper Windings 55/65 °C Rise[1]

65° Rise	**DEAD-FRONT—LOOP OR RADIAL FEED—BAY-O-NET FUSING OIL FILLED—COPPER WINDINGS**										
	OUTLINE DIMENSIONS (in.)									**Gallons of Fluid**	**Approx. Total Weight (lbs.)**
kVA Rating	**A***	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**		
45	50	64	39	34	30	64	69	43	20	110	2,100
75	50	64	39	34	30	64	69	43	20	115	2,350
112.5	50	64	49	34	30	64	69	53	20	115	2,500
150	50	64	49	34	30	64	69	53	20	120	2,700
225	50	64	51	34	30	64	73	55	20	140	3,250
300	50	64	51	34	30	64	75	55	20	160	3,800
500	50	81	53	34	30	64	85	57	20	200	4,800
750	64	89	57	42	30	72	93	61	20	255	6,500
1000	64	89	59	42	30	72	93	63	20	300	7,800
1500	73	89	86	42	30	72	93	90	24	410	10,300
2000	73	72	87	42	30	72	76	91	24	420	11,600
2500	73	72	99	42	30	72	76	103	24	500	14,000
3000	73	84	99	46	37	84	88	103	24	720	18,700
3750	84	85	108	47	38	85	88	112	24	800	20,500
5000	84	96	108	48	48	96	100	112	24	950	25,000
7500	94	102	122	54	48	102	100	126	24	1,620	46,900

[1] Weights, gallons of fluid, and dimensions are for reference only and not for construction. Please contact Eaton for exact dimensions.

* Add 9" for Bay-O-Net fusing.

BOHLER
SITE CIVIL AND CONSULTING ENGINEERING
LAND SURVEYING
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SUSTAINABLE DESIGN
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REVISIONS

REV	DATE	COMMENT	DRAWN BY / CHECKED BY
1	06/07/2023	PLANNING BOARD COMMENTS	OCR / GD
2	07/10/2023	PLANNING BOARD COMMENTS	OCR / GD
3	7/19/2023	PER SURVEY UPDATES	AP / GD
4	8/01/2023	PARCEL AREA REFERENCES	AP / GD

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PROJECT No.:	W201257
DRAWN BY:	EVD / CMC / OCR
CHECKED BY:	GD
DATE:	04/13/2023
CAD I.D.:	W201257-DETL-4A

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR

NEXTGRID MESCALBEAN LLC

PROPOSED SOLAR FARM

LOTS INCLUDED (PARCEL #):239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009
160 MAPLE STREET,
TOWN OF BELLINGHAM & FRANKLIN, NORFOLK COUNTY, MASSACHUSETTS

BOHLER
352 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
Phone: (508) 480-9900
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SHEET TITLE:

DETAIL SHEET

SHEET NUMBER:

C-905

REVISION 4 - 8/01/2023

AstroTwins™

Enjoy the Energy of the Universe

400W~415W

P-type Monocrystalline PV Module

CHSM72M(DG)/F-BH Series (158.75)

CHSM72M(DG)/F-BH is bifacial module with white glazed glass

Tier 1 (Bloomberg) | No.1 PHOTON | Independently Tested and Ranked as Top Performance | DNV GL 2020 TOP Performance



KEY FEATURES

- **OUTPUT POSITIVE TOLERANCE** — Guaranteed 0~+5W positive tolerance ensures power output reliability.
- **EXCELLENT WEATHER RESISTANCE** — Reduces the cell micro-crack and extended product warranty.
- **BIFACIAL POWER** — The backside makes use of the reflected and scattered light from the surroundings, the modules can yield up to 5%~30% power more, depending on the albedo.
- **REDUCE INTERNAL MISMATCH LOSS** — Reduces mismatch loss and improves output.
- **APPLICABLE FOR MULTI DIFFERENT ENVIRONMENTS** — The wide range of applications, such as BIPV, vertical installation, snow area, high humidity area and strong sandstorm area, etc.
- **SNAIL TRAIL RESISTANCE** — Reduces the probability of snail trails with zero water vaper transmittance.

COMPREHENSIVE CERTIFICATES

First solar company which passed the TUV Nord IEC/TS 62941 certification audit.

For Global Market

ASTRONERGY
A CHNT COMPANY

ELECTRICAL SPECIFICATIONS

Power rating (front)	400 Wp		405 Wp		410 Wp		415 Wp	
Testing Condition	Front	Back	Front	Back	Front	Back	Front	Back
STC rated output (P_{max}/Wp)*	400	282	405	285	410	289	415	292
Rated voltage (V_{mpp}/V) at STC	40.67	40.58	40.99	41.10	41.10	41.31	41.31	41.52
Rated current (I_{mpp}/A) at STC	9.84	6.89	9.91	6.94	9.98	6.99	10.05	7.04
Open circuit voltage (V_{oc}/V) at STC	48.24	46.82	48.42	46.99	48.60	47.17	48.78	47.34
Short circuit current (I_{sc}/A) at STC	10.30	7.22	10.38	7.28	10.46	7.33	10.54	7.39
Module efficiency	19.4%	13.7%	19.7%	13.8%	19.9%	14.0%	20.2%	14.2%
Temperature coefficient (P_{max})	- 0.35%/°C							
Temperature coefficient (I_{sc})	+0.04%/°C							
Temperature coefficient (V_{oc})	- 0.28%/°C							
Nominal module operating temperature (NMOT)	44±2°C							
Maximum system voltage (IEC/UL)	1500V$_{DC}$							
Number of diodes	3							
Junction box IP rating	IP 68							
Maximum series fuse rating	20 A							

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5

ELECTRICAL SPECIFICATIONS (Integrated power)

P_{max} gain	P_{max}	V_{mpp}	I_{mpp}	V_{oc}	I_{sc}
5%	431 Wp	41.10 V	10.47 A	48.60 V	10.98 A
10%	451 Wp	41.10 V	10.97 A	48.60 V	11.51 A
15%	472 Wp	41.00 V	11.50 A	48.70 V	12.03 A
20%	492 Wp	41.00 V	12.00 A	48.70 V	12.55 A
25%	513 Wp	41.00 V	12.50 A	48.70 V	13.08 A

Electrical characteristics with different rear power gain (reference to 410W)

MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	2038 x 1010 x 30 mm
Frame technology	Aluminum, silver anodized
Glass thickness	2.0 mm
Cable length (IEC/UL)	Portrait: 350 mm Landscape: 1200 mm
Cable diameter (IEC/UL)	4 mm² / 12 AWG
[1] Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Connector type (IEC/UL)	MC4 compatible

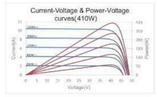
[1] Refer to Astronergy crystalline installation manual or contact technical department.
Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

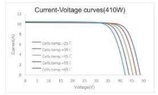
PACKING SPECIFICATIONS

[1] Weight (module only)	26.3 kg
[2] Packing unit	36 pcs / box
Weight of packing unit (for 40'HQ container)	994 kg
Number of modules per 40'HQ container	792 pcs

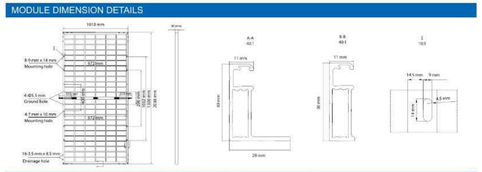
[1] Tolerance: +0- 1.0kg
[2] Subject to sales contract.

CURVE





MODULE DIMENSION DETAILS



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http://energy.chint.com

Astronergy 05-2020

CONNECTPV

Simplifying Solar PV

1500V Disconnect Combiners

ConnectPV Disconnect Combiner products are based on a core product architecture optimized for commercial and utility scale solar projects, simplifying design and specification. Options and accessories allow the designer to optimize the products for each project – reducing installation labor costs.

ConnectPV products incorporate "best-in-class" components combined with rugged mechanical designs to maximize reliability over the projected life of the project.

Compatible with grounded systems - negatively or positively grounded with fuses on the ungrounded string input conductors, or ungrounded systems with fuses on both string input conductors.

Standard Product Features

- 250A, 320A, and 400A UL98B Certified Manual Disconnects
- Lock-Out/Tag-Out on Disconnect Handle
- 8-32 Fused Inputs, #14-#6 AWG Wire Range
- Touch Safe Fuse-holders
- 15A Fuse Typical, 30A Maximum – user specified
- M10 or M12 Studs provided for single or double hole lugs
- Accommodates 90C Cu/Al Mechanical or Compression Lugs
- Internal Safety Cover over all live components
- NEMA 3R, 4, and 4X Enclosures
- Padlock Latch for Door
- Unique Serial number per unit
- Labelling to meet NEC Requirements
- 5 Year Warranty



Product Options

- Class 2 40kA Surge Protective Device
- Mechanical Lugs Installed or Compression Lugs Included
- Breather Vents for High Humidity Locations
- H4 or MC4 Bulkhead or Whip Connectors Installed
- Upsized Enclosures for Larger Output Wires
- Mounting Brackets Installed
- Extended Warranty

ISO 9001:2008 Certified Manufacturing

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MADE IN U.S.A.

Contact Toll Free: **(844)-246-6140**
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CBX15 Rev. 3.0

ConnectPV reduces electrical BOS project costs by simplifying:

- **Configuration** — *Design Engineers easily configure our products to meet the project's requirements - Simplifying design and specification*
- **Installation** — Field Installers quickly install our products because they provide ample wiring room - *Reducing installation time and labor cost*
- **Regulation** — AHJ Inspectors quickly review and approve our products because we have designed for 100% compliance with the NEC and UL Standards - *Reducing project inspection and approval time*
- **Operation** — O&M Personnel reduce field service time because our products use high quality componentsand are designed for a 20 year life expectancy - *Maximizing system revenue generation*

Typical Input Characteristics				Grounded Systems		Floating Systems	
Input Circuits	Standard Disconnect Ampacity	Input Wire Size	Output Type	NEMA 4 Steel (inches)	NEMA 4X Fiberglass (inches)	NEMA 4 Steel (inches)	NEMA 4X Fiberglass (inches)
16	250	#14-#4 AWG Copper	M10 Stud	24x24x8	24x24x8	24x30x8	24x30x8
20	250			24x24x8	24x24x8	24x30x8	24x30x8
24	320		M12 Stud	30x24x8	30x24x8	30x30x8*	30x30x8*
28	400			30x30x8	36x30x8	36x36x8	36x36x8*
32	400			30x30x8	36x30x8	36x36x8	36x36x8*

* Painted Stainless Steel NEMA 4X

High Ampacity Input Versions available; e.g., 12 Input, 400A with 30A fuses

Standard Disconnects sized at 1.25x Sum(isc) per UL1741.
Upsize Disconnect available at 1.56x Sum(isc) for OCPD coordination.

Specifications Subject to Change

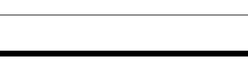
Model Numbers are derived from the following template: CBXVVT-###D(S)-FFAA-EE

VV Voltage	T Topology	### Disconnect Rating	FF String Count	AA Fuse Rating	EE Enclosure Type
15 = 1500V	G=Grounded F= Floating	250A, 320A,or 400A	08-32 2 string increments	02-30 15A Typical	N4 = Carbon Steel 4X = Fiberglass*

Additional Options and Accessories Available

Stainless Steel Available

ABOUT CONNECTPV INC.



Based in San Diego, CA, ConnectPV Inc. delivers expertise and experience. We bring over 10 years of Solar PV industry experience in electrical Balance of System products coupled with more than 25 years of high quality, ISO9001:2008 certified, manufacturing expertise. We actively work with our customers to deliver innovative, high quality, and cost effective solutions.

Contact Toll Free: **(844)-246-6140**
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San Diego, CA
CBX15 Rev. 3.0

CAB1000/AC

Up to 1500 VDC
Utility-grade energy storage inverter
Scalable to 4 MW



Return on Investment
- 98% max efficiency
- Low shipping & installation cost
- Modular 1 MW blocks
- Monetizable system performance

Modular / flexible configuration
- 1 MW blocks, up to 1500 VDC
- Configurable up to 4 MW
- Individual AC connections or combined throat
- Able to mix inverters & DC-DC in a single lineup

Simple O&M
- Easily maintainable
- Modular design with low component count
- Extended warranty available

Easily Transportable
- Standard freight = low transportation cost
- Moveable with pallet jack or standard forklift
- No crane required
- Separable building blocks

Advanced Technology
- Parallel UPS functionality
- Fully parameterizable grid support
- Certified to standards UL1741 / IEC
- ZVRT / LVRT / 4-quadrant high bandwidth control

The CAB1000 scalable platform was specifically developed to offer a straightforward and simple solution to developers of Utility-grade energy storage systems. In ~1 MW blocks, the CAB1000 platform offers a single modular system which is tailored to Utility systems of all sizes. The scalable power conversion system also boasts high-performance controls and system redundancy.

With world-class power density and an easy to install design, your energy storage system will be commissioned quickly and easily. The energy storage PCS has never been more flexible or straightforward.

epcpower
excellence in power conversion

PRELIMINARY - EPC Power Corporation 70-100032 August 2019

MODEL		CAB1000/AC-630		
LINEUP QTY		1	--	4
AC	AC port configuration	3-wire (3P3W)		
	AC voltage range	630 VRMS +10% / -12%		
	AC export capacity (1) @ 25°C	1250 kVA | 1146 ARMS		5000 kVA | 4584 ARMS
	AC export capacity @ 45°C	1125 kVA | 1031 ARMS		4500 kVA | 4124 ARMS
	AC import capacity @ 25°C	1004 kVA | 920 ARMS		4016 kVA | 3680 ARMS
	AC import capacity @ 45°C	886 kVA | 812 ARMS		3544 kVA | 3248 ARMS
	Inverter type	3-Level VSC		
	Minimum grid SCCR (2)	2		
	Nominal frequency range	50 - 60 Hz (field settable)		
	Harmonic distortion	UL1741 / IEEE 1547, <2% TDDi per IEEE 519		
	Power factor / reactive power	0 leading ... 0 lagging (full 4-quadrant operation)		
	Maximum aux. power consumption	950 W		3800 W
	Efficiency: Max | CEC | Euro	98.6% (est.) | >98% (est.) | >98% (est.)		
DC	DC voltage range (3)	892 - 1500 VDC		
	Typical Lithium battery voltage range	925 - 1350 VDC		
	Maximum DC current	1403 ADC		5612 ADC
	Battery technology	all battery types, fuel cells, other DC sources, etc.		
	Number of DC inputs	1		4
Environmental	Ambient temperature (operation)	-20°C to 50°C		
	Ambient temperature (storage)	-20°C to 60°C		
	Protection degree	NEMA 3R / IP54		
	Relative humidity	5% - 100% condensing		
	Max elevation	2,000 m [6,500 ft.]		
	Airborne noise	<75 dBA @ 5m		
	Temperature de-rating	automatic; see charts		
Cabinet	Maximum dimensions (H x W x D)	mm: [2275 x 1004 x 1200] in.: [89.6 x 39.5 x 47.2]	--	mm: [2275 x 4931 x 1200] in.: [89.6 x 194 x 47.2]
	Weight (est.)	1043 kg [2300 lb.]		(4) x 1043 kg [(4) x 2300 lb.]
	Mounting	Pad mount		
	Cooling	Hybrid liquid / air		
	Cooling fluid	30% - 50% EWG or PWG		
Certifications (pending)	Safety	UL 1741 | C22.2 No. 107.1-16		
	Utility interconnect	UL 1741:2010 82.1B (SA) | IEEE 1547.1-2005 | CA Rule 21 No. 16-06-052 | Hawaii Rule 14 No. 2014-0192		
Protections	AC protection	fuses		
	DC protection	fuses (optional)		
	Humidity	internal cabinet heating		
	Safety features	overvoltage, overcurrent, overtemperature		
	Ground fault detection	integrated		
Control	Control interface	CAN, Modbus RS485, or Modbus TCP		
	Command latency	1 ms		
	Response time; (time to new setpoint)	8 ms; adjustable longer via parameters		
	On-off grid transitions	Yes | UPS mode available		
	Black-start capable	Yes; requires external control power		
	Grid-tied control modes	Voltage mode | PQ (power) | DQ (current) | cos phi (pf)		
	Grid-support functions	Volt/VAR | Hz/Watt | Volt/Watt | inertia		
	Islanded control modes	V&f | droop control | inertia | Ok to parallel with other sources		
	Island overload avoidance	active inrush limiting for starting large loads		
	Control power options	208 - 240 VAC | DC: 24 VDC		

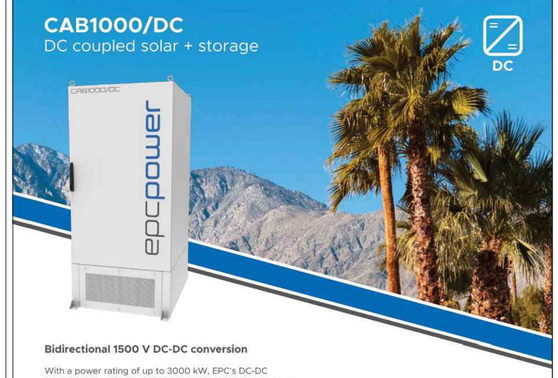
(1) Power ratings at nominal line voltage.
(2) Minimum SCCR operation requires inverter to be in "spinning reserve" mode. Contact EPC Power for details.
(3) Minimum DC voltage at nominal AC line voltage.

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PRELIMINARY - EPC Power Corporation 70-100032 August 2019

CAB1000/DC

DC coupled solar + storage



Bidirectional 1500 V DC-DC conversion

With a power rating of up to 3000 kW, EPC's DC-DC outdoor cabinet is designed to seamlessly integrate energy storage into 1000 V or 1500 V PV systems.

Our DC-DC converters are compatible with a wide range of DC sources. Whether you have 1000 V class lithium battery banks, DC generators, ultra-capacitors, other battery chemistries (lead-acid, flow, etc.), or even fuel cells, our DC-DC converters have your needs covered. By connecting a wide range of DC voltage levels, EPC's DC-DC solutions enable highly scalable power conversion in your application.

The CAB1000/DC is designed from the ground up with simplicity, reliability and scalability in mind.

Key benefits:

- 4-quadrant (bidirectional buck or boost)
- DC coupled solar
- Power flow in either direction regardless of voltages
- Wide DC range
- Optimized for energy storage

1500 V DC-DC
Any DC source
Wide DC voltage range

- NEMA 3R rated
- Peak efficiency >98%
- Connects directly between PV & storage
- Refit or new instalations
- MPPT capable
- Bidirectional buck/boost

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CAB1000/DC
Bidirectional DC-DC

Use Case 1:



Use Case 2:



MODEL		CAB1000/DC.1-1000-1500	CAB1000/DC.2-2000-1500	CAB1000/DC.3-3000-1500
LINEUP		1	2	3
DC	DC import capacity @ 50°C	1000 kW | 1350 ADC	2000 kW | 2700 ADC	3000 kW | 4050 ADC
	Converter topology	3-Level		
	Maximum aux. power consumption	750 W	1500 W	2250 W
	Efficiency: Max | CEC | Euro	98.5% (est.) | 98.5% (est.) | 98.5% (est.)		
	PV DC voltage range	500 - 1500 VDC		
	Maximum PV input voltage	1500 VDC		
	Battery DC voltage range	500 - 1500 VDC		
	Suggested battery voltage range	720 - 1300 VDC		
	Maximum DC current	1350 ADC	2700 ADC	4050 ADC
	DC voltage ripple	<3%		
	Battery technology	all battery types, fuel cells, other DC sources, etc.		
	Number of DC connections	4 positive / 4 negative	8 positive / 8 negative	12 positive / 12 negative
Environmental	Ambient temperature (operation)	-20°C to 50°C		
	Ambient temperature (storage)	-20°C to 60°C		
	Protection degree	NEMA 3R / IP54		
	Relative humidity	5% - 100% condensing		
	Max elevation	2,000 m [6,500 ft.]		
	Airborne noise	<75 dBA @ 1m		
	Temperature de-rating	automatic; see charts		
Cabinet	Maximum dimensions (H x W x D)	mm: [2760 x 1000 x 1200] in.: [108.6" x 39.4" x 47.2"]	mm: [2760 x 2000 x 1200] in.: [108.6" x 78.8" x 47.2"]	mm: [2760 x 3000 x 1200] in.: [108.6" x 118.2" x 47.2"]
	Weight (est.)	907 kg [2000 lb.]	1814 kg [4000 lb.]	2721 kg [6000 lb.]
	Mounting	Pad mount		
	Cooling	Hybrid liquid / air		
	Cooling fluid	30% - 50% EWG or PWG		
Certifications	Safety	UL 1741 pending		
Protections	DC protection	DC disconnect (battery); DC disconnect (PV); DC fuses (optional)		
	Humidity	internal cabinet heating		
	Safety features	overvoltage, overcurrent, overtemperature		
	Ground fault detection	integrated		
Control	Control interface	CAN, Modbus RS485, or Modbus TCP		
	Command latency	1 ms		
	Response time; e.g. step from full charge to discharge	10 ms; adjustable longer via parameters.		
	Black-start capable	Yes; requires external control power		
	Control power options	208 - 240 VAC	DC: 24 VDC	

Proven products. Limitless possibilities.

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PHOTOVOLTAIC PANEL SPECIFICATIONS

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CAD I.D.: W201257-DETL-4A

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR

NEXTGRID MESCALBEAN LLC

PROPOSED SOLAR FARM

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MAINE LICENSE No. 24553

SHEET TITLE:

DETAIL SHEET

SHEET NUMBER:

C-906

REVISION 4 - 8/01/2023

Switches and Disconnects
CA008004EN

Effective January 2016
Supersedes June 2015

COOPER POWER SERIES

M-Force™ three-phase switch



Description

Eaton's Cooper Power™ series M-Force™ switch is a distribution-class, gang-operated, factory unitized three-phase overhead loadbreak switch. The M-Force switch is offered in distribution voltage classifications of 15.5 kV, 27 kV, and 38 kV. The M-Force switch may be used for line sectionalizing, paralleling, by-passing, or isolating.

M-Force stands for "Magnetic Force." Eaton has the only reverse loop contacts found on distribution-class sidebreak switches; a contact usually reserved for higher priced transmission switches. The reverse loop contacts utilize high current magnetic forces for added reliability. The reverse loop design allows for high contact pressure to be maintained during fault conditions. This feature prevents pitting and distorting of the switch blade and contacts even under severe momentary overload.

EATON
Powering Business Worldwide

Basic concept

Current-carrying conductors that are parallel to each other and have current flowing in the same direction, attract each other due to the magnetic forces acting on them (See Figure 1A).

Current-carrying conductors that are parallel to each other and have current flowing in the opposite direction, repel due to the magnetic forces acting on them (See Figure 1B).

Current flows through the two parallel inner segments of the reverse loop contacts in the same direction, thus these two segments attract each other, initiating contact pressure. Current flow through the inner segment and the outer segment is in opposite directions, which causes a repelling force that amplifies the contact pressure.

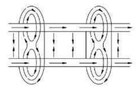


Figure 1A. Current flowing in same direction.

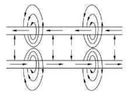


Figure 1B. Current flowing in opposite direction.

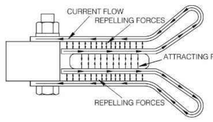


Figure 2. Magnetic forces acting on contacts.

Design features

Reverse loop contacts

The reverse loop contacts utilize high current magnetic forces for added reliability. The reverse loop contacts were adapted from Eaton's Cooper Power series KPF Line Tension Switch and have been field-proven for over 80 years. The reverse loop design allows for high contact pressure to be maintained during fault conditions. This feature prevents pitting and distorting of the switch blade and contacts even under severe momentary overload. These contacts originally designed for high voltage transmission switches also maintain extremely cool temperatures even under the rated full load. The max temperature rise allowed per IEEE Std 1247™-2005 standard for the blade and contact area is 65 °C. The max temperature rise observed on the reverse loop contact area was 38 °C, less than half of the allowed temperature. These types of test results, along with the proven field performance, undoubtedly make the Reverse Loop Contacts found in the M-Force switch the premiere choice in the industry.

Insulators

The M-Force switch comes standard with polymer (silicone rubber) insulators. These non-porcelain insulators offer exceptional dielectric and mechanical characteristics adding to the reliability of the M-Force switch, while lowering the weight. The M-Force switch can be provided in cycloaliphatic epoxy and porcelain housings. Insulators come standard with 2.25" bolt circles at 15 and 25 kV. Insulators require a 3.00" bolt circle at 35 kV.

Extended bearing assembly

The stainless steel shaft on the rotating insulator bearing assembly has been extended to four inches. This extra length will prevent horizontal movement of the rotating insulator during operation which ensures proper blade/contact alignment which is essential for smooth operation. Another feature of the bearing assembly is the oil-impregnated bushings that provide maintenance-free operation for the life of the switch.

Insulated Reliabreak™ arm

The Reliabreak™ Pick-up Arm on the M-Force switch is insulated on one side, which isolates the interrupter from the current path during a close operation. This feature allows for a wide range of adjustments between the Reliabreak arm and the blade catch finger. This increased tolerance removes the possibility of misalignment during operation which ensures proper load interruption.

Positive locking dead-end brackets

The dead-end brackets on the M-Force switch are of a positive locking design. This design allows for dead-ending at an angle without any distortion of the brackets. This allows for a more flexible switch that can be used in a wider variety of installation requirements.

New inter-phase clamps

The inter-phase control rod clamps on the M-Force switch are designed with a jam nut through the side of the casting which locks the clamps after factory alignment. This feature eliminates any possibility of accidental slippage of the control mechanism which ensures proper operation even under icy conditions.

Optional ice shields

The standard M-Force switch is capable of operating under a 3/8" ice build up. With the optional ice shields the M-Force switch is capable of opening and closing with a 3/4" ice build up.

The unique shields are designed to prevent ice from building up between the contact clips as well as removing the ice from the blade during the closing operation. Per IEEE Std C37.34™-1994, a chopping action is allowed during the close operation to break the ice. Due to the shearing action of the M-Force Ice Shields, the closing operation can be accomplished with one motion. No chopping is needed.

Table 7. M-Force Three-Phase Switch Catalog Number Configuration

M 1 H 11 T R 2

Voltage Class
1 - 15.5 kV/110 kV BIL
2 - 27 kV/150 kV BIL
3 - 38 kV/200 kV BIL

Mounting Configuration
H - Horizontal Upright Standard Option
A - Horizontal Pole Top
P - Phase over Phase
R - Vertical Riser
G - Horizontal Upright (GO95 Spacing)
S - Vertical Riser (GO95 Spacing)
T - Triangular
U - Underhung (GO95 Spacing)

Control Rod and Mechanism
Reciprocating Mechanism
11 - 28" Round Pipe 1.0" O.D. (Standard Option)
21 - 28" Round Fiberglass
41 - 28" 1" Pipe w/Fiberglass Top Section
51 - 28" Pipe w/Cycloaliphatic Insulator
Torsional Mechanism
D2 - 28" T.S. Pipe (Steel Universal Section)
B2 - 28" T.S. Pipe (Fiberglass Universal Section)
C2 - 28" 1.5" Pipe (Cycloaliphatic Insulator)
None
03- Hookstick operated (no control rod)

Crossarm Options
1 - Steel with Single Point Lift (Standard Option)
2 - Steel with Two Point Lift
G - Fiberglass with Single Point Lift
F - Fiberglass with Two Point Lift

Insulator Material
R - Polymer (Standard Option)
C - Cycloaliphatic Epoxy
P - Porcelain

Options (See Page 9 for details)
Note: More than one may be chosen. Append codes in alphanumeric order.
B - Provisions for Crossarm Support Bracket
C* - Captive Hardware on Terminal Pads (Incompatible with Option U below)
E - Extension Links (141)
F - Bonded Reciprocating Control Handle (Standard on Torsional Controls)
G - Reciprocating Handle with Interlocks
H* - Lightning Arrester Brackets
I - Steel Interphase Rod
J - Provisions for Neutral Wire
K - Provisions for Sensors
R - Additional Nameplate on Handle
S - Ice Shields (3/4" Ice Break on Open or Close Operation)
T - Grounding Connector on Crossarm Mounting Bracket
U - Terminals, Copper, #2-500 MCM (Incompatible with Option C above)
V - Pole Mounting Band
Y - Extra 7' of Control Rod
Z - Extra 14' of Control Rod

Insulator Bolt Pattern
2 - 2.25" Bolt circle for 15 and 27 kV switches
3 - 3.00" Bolt circle for 35 kV switches

Consult factory for other bolt circle options.



Viper-ST

Solid-Dielectric, Independent Pole Option Recloser Providing electronic overcurrent protection for single or three phase operation on systems rated through 38kV, 800A continuous current, 12.5kA or 16kA interrupting current





- Interrupting rating up to 16kA through 27kV
- Overhead, substation and dead-front padmount designs
- Operator safety with mechanical block and triple redundancy on trip handle
- Smart Grid/Lazer® solutions
- Ease of installation with site-ready design
- Reliable performance
- Maintenance-free recloser
- High accuracy Accusense voltage sensors
- Up to six internal voltage sensors
- Works directly with SEL-651R, ABB RER620, Beckwith M-7679, and GE R650 controls
- RUS accepted

G&W Engineered to order. Built to last.

Catalog O-vst18

Typical Specifications

DESIGN RATINGS AND STANDARDS
Reclosers shall be designed, tested and built per IEEE C37.60 and IEC 62271-111 standards, Certified test reports shall be provided. The recloser shall be rated (select column):

Max System Voltage (kV)	15.5	27	38
Rated Voltage (kV)	15	25	35***
Interrupting Rating RMS (kA)	16*	16*	12.5
BIL (kV)	110	125	150
Continuous Current (A)	800/ 1000****	800/ 1000**	800
8 Hr. Overload, at 20° C	960	960	960
Making Current, RMS, asym, KA	25*	25*	20
Peak, asym (kA)	42*	42*	32
Short Circuit Current, kA sym, 3 seconds	16*	16*	12.5
60Hz Withstand, kV rms Dry, 1 minute	50	60	60
60Hz Withstand, kV rms Wet, 10 seconds	45	50	50
Operating Temperature	-60°C to +65°C		
Mechanical Operations	10K	10K	10K

* 29.3kV system voltages are available
** Consult factory for higher continuous current up to 1000A
† 12.5kA Interrupting Current rating available

Voltage Class	Catalog Number
15.5kV	VIP378ER-[12 or 16]*-1-ST
27kV	VIP388ER-[12 or 16]*-1-ST
38kV	VIP398ER-[12]*-1-ST

*12=12.5kA sym. fault interrupting or 16=16kA sym. fault interrupting

Approximate weight (for single-phase module less frame) is 100lbs. (45kg)



◀ NEMA 4-hole, 2-hole and clamp style aerial lugs.

Options*

The following options shall be supplied:
(Check as necessary)
___ NEMA 2-hole aerial lugs
___ NEMA 4-hole aerial lugs
___ Clamp style aerial lugs (#2 - 500 kcmil)
___ Clamp style aerial lugs (250 -750 kcmil)
___ 4/0 brass eyebolt ground lug
___ _____ Polemount site-ready assembly
___ Lightning arresters
___ Dead-front padmounted design with stainless steel enclosure
___ External Accusense Voltage Sensors (0.5 class accuracy)
___ External 1.0 KVA oil potential transformer (3% accuracy) for 120 VAC supply power with hardware to mount on standard aluminum frame
___ External 0.75 KVA solid-dielectric voltage transformer (0.3% accuracy) for 120 VAC supply power with hardware to mount on standard aluminum frame
___ High impact, UV stable wildlife protectors for source and load insulators
___ External CTs for current monitoring
___ Six internal voltage sensors
___ Junction box with all twist lock connections
___ 42 pin interface with additional 52b auxiliary contact (Form C type) and cable-disconnected alarm
___ 3-phase ganged manual trip handle

* Additional Cost
Contact factory for additional options or customization.

Visit gwelec.com/specs.html for electronic versions of typical specifications.

SEL-651R

Advanced Recloser Control

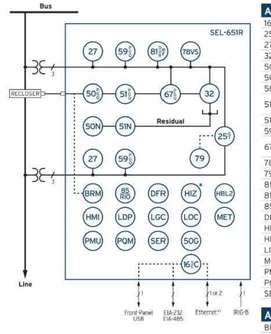


The industry's gold standard for recloser control

- Advanced recloser protection capabilities support coordinated high-speed fault isolation and restoration.
- Three- or single-phase tripping minimizes customer outages and improves reliability metrics.
- Arc Sense™ technology improves public safety and minimizes fire dangers caused by downed conductors.
- Fast islanding detection, precise synchronization, and IEEE 1547-2018 tripping let you safely interconnect distributed energy resources (DERs).
- Second-harmonic blocking secures overcurrent elements from transformer inrush.

SEL

Functional Overview



ANSI NUMBERS/ACRONYMS AND FUNCTIONS

16 SEC	Access Security (Serial, Ethernet)
25 (G,T)	Generator/Intertie Synchronism Check
27	Undervoltage
32	Directional Power
50G	Best Choice Ground
50N	Neutral Overcurrent
50 (P,G,Q)	Overcurrent (Phase, Ground, Negative Sequence)
51 (P,G,Q)	Time Overcurrent (Phase, Ground, Negative Sequence)
51N	Neutral Time Overcurrent
59 (P,G,Q)	Overvoltage (Phase, Ground, Negative Sequence)
67 (P,G,Q)	Directional Overcurrent (Phase, Ground, Negative Sequence)
78VS	Vector Shift
79	Autoreclosing
81 (O,U,R)	Frequency (Over, Under, Rate)
81RF	Fast Rate-of-Change of Frequency
85 RIO	SEL Mirrored Bits® Communications
DFR	Event Reports
HIZ	SEL Arc Sense™ Technology (AST)*
HMI	Operator Interface
LGC	SELogic® Control Equations
MET	High-Accuracy Metering
PMU	Synchrophasors
PQM	Voltage Sag, Swell, and Interruption
SER	Sequential Events Recorder

ADDITIONAL FUNCTIONS

BRM	Breaker Wear Monitor
HBL2	Second-Harmonic Blocking
LDP	Load Data Profiling
LOC	Fault Locator

*Optional feature **Copper or fiber-optic

Compatible With Popular Reclosers

The SEL-651R Advanced Recloser Control works with a wide range of reclosers for complete plug-and-work capability. All interfaces are designed and tested to exceed the IEEE C37.60 standard. Certificates are available at selinc.com/SEL-651R.

G&W
Control Power Viper-S
Viper-LT
Viper-S
Viper-SP
Viper-ST
Viper-G

Other Reclosers
Elastimold Molded Vacuum Recloser (MVR)
Joslyn TriMod 300R
Joslyn TriMod 600R
OVR-3 (15 and 27 kV only)
Gridshield 32-Pin (15, 27, and 38 kV)
Gridshield 42-Pin (15, 27, and 38 kV)
VR-3S (15 and 27 kV only)
CXE
NOVA Auxiliary Powered
NOVA Control Powered
NOVA NX-T
NOVA Triple-Single

RE
RVE
RXE
VSA
VSO
VWE
VWVE 27
VWVE 38X
WE
WVE 27
WVE 38X
GVR*
SDR Triple-Single
SDR Three-Phase
OSM_ISO

*When equipped with interface module

PHOTOVOLTAIC PANEL SPECIFICATIONS

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APP

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SHEET NUMBER:

C-907

REVISION 4 - 8/01/2023



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