

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

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.



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PROJECT No.: W201257
DRAWN BY: EVD / CMC / OCR
CHECKED BY: GD
DATE: 04/13/2023
CAD I.D.: W201257-SPPD-2A

PROJECT:

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FOR
NEXTGRID MESCALBEAN LLC
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NEW HAMPSHIRE LICENSE No. 15476
CONNECTICUT LICENSE No. 26177
RHODE ISLAND LICENSE No. 3616
MAINE LICENSE No. 12553

SHEET TITLE:

COVER SHEET

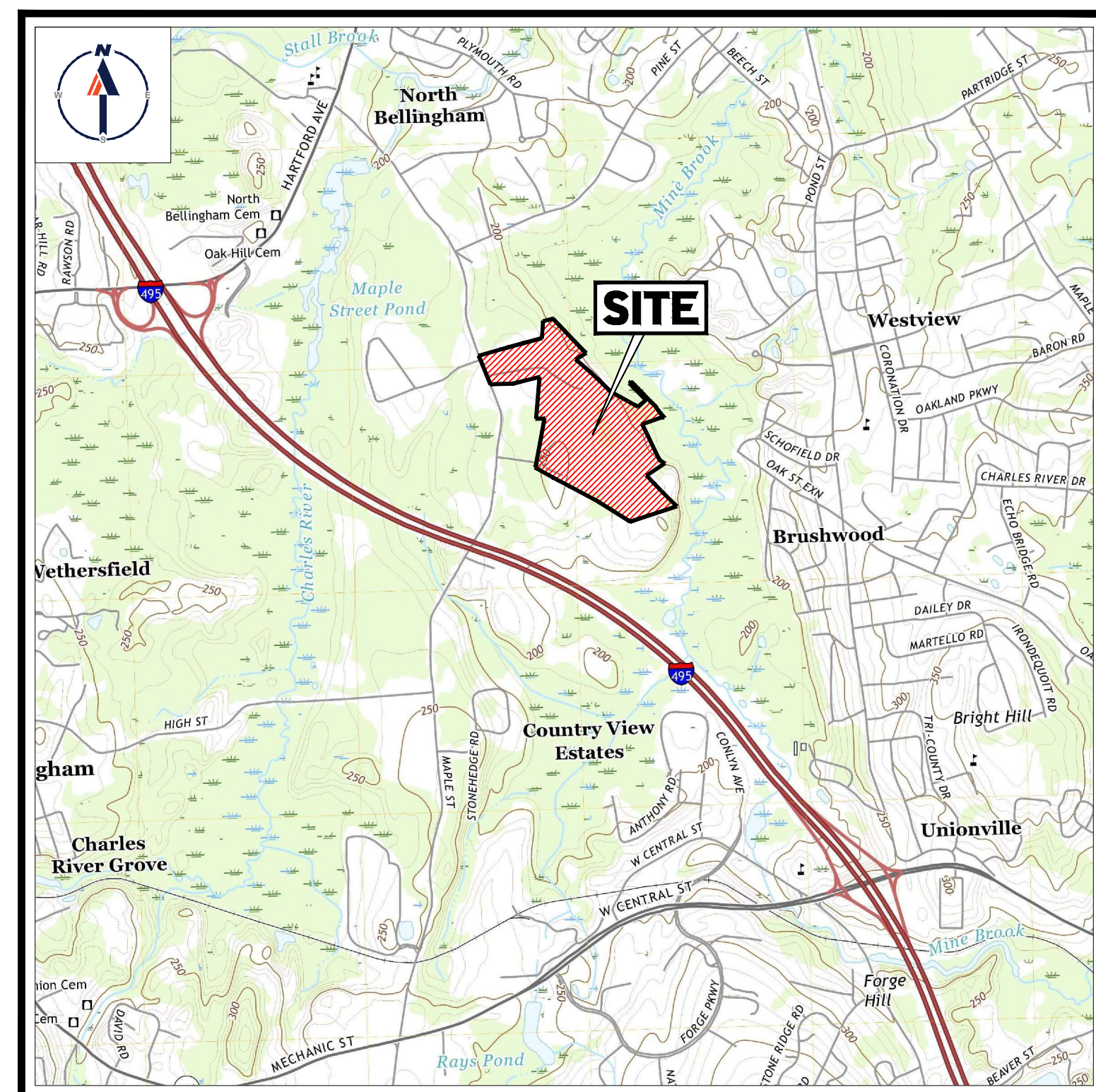
SHEET NUMBER:

C-101

REVISION 1 - 06/07/2023

DRAWING SHEET INDEX

SHEET TITLE	SHEET NUMBER
COVER SHEET	C-101
GENERAL NOTES SHEET	C-102
OVERALL DEMOLITION PLAN	C-201
DEMOLITION PLAN (A-F)	C-202 - C-207
OVERALL SITE LAYOUT PLAN	C-301
SITE LAYOUT PLAN (A - F)	C-302 - C-307
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
DETAIL SHEETS	C-901 - C-907
EXISTING CONDITIONS PLAN (BY FELDMAN GEOSPATIAL)	8 SHEETS



USGS MAP

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



SITE MAP

SCALE: 1" = 600'
SOURCE: GOOGLE AERIAL

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SHEET TITLE:

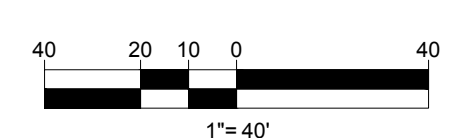
DEMOLITION PLAN A

SHEET NUMBER:
C-202

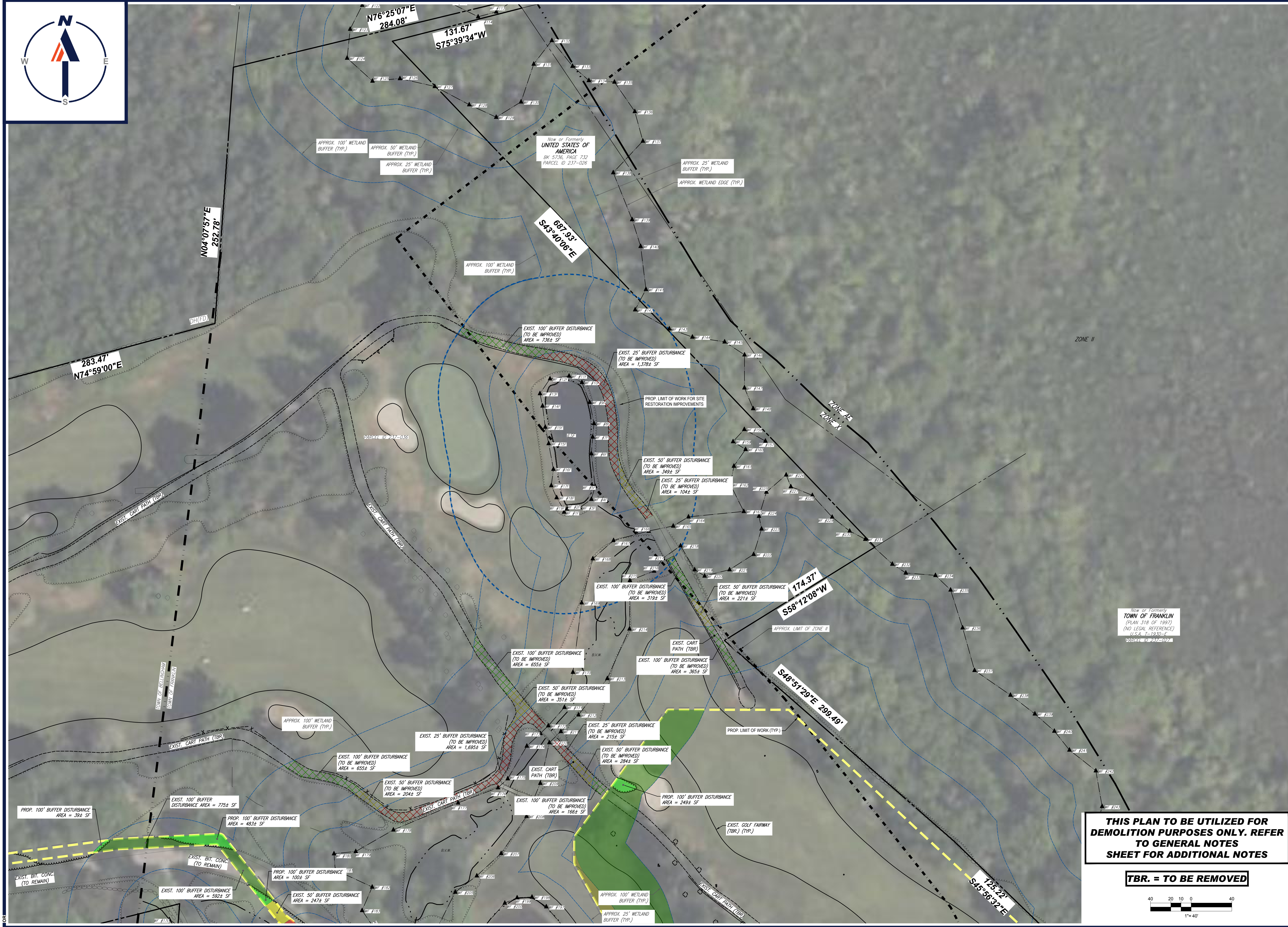
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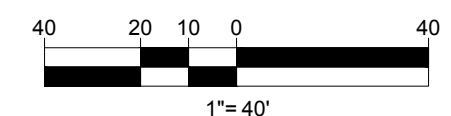
SHEET TITLE:
DEMOLITION PLAN B

SHEET NUMBER:
C-203

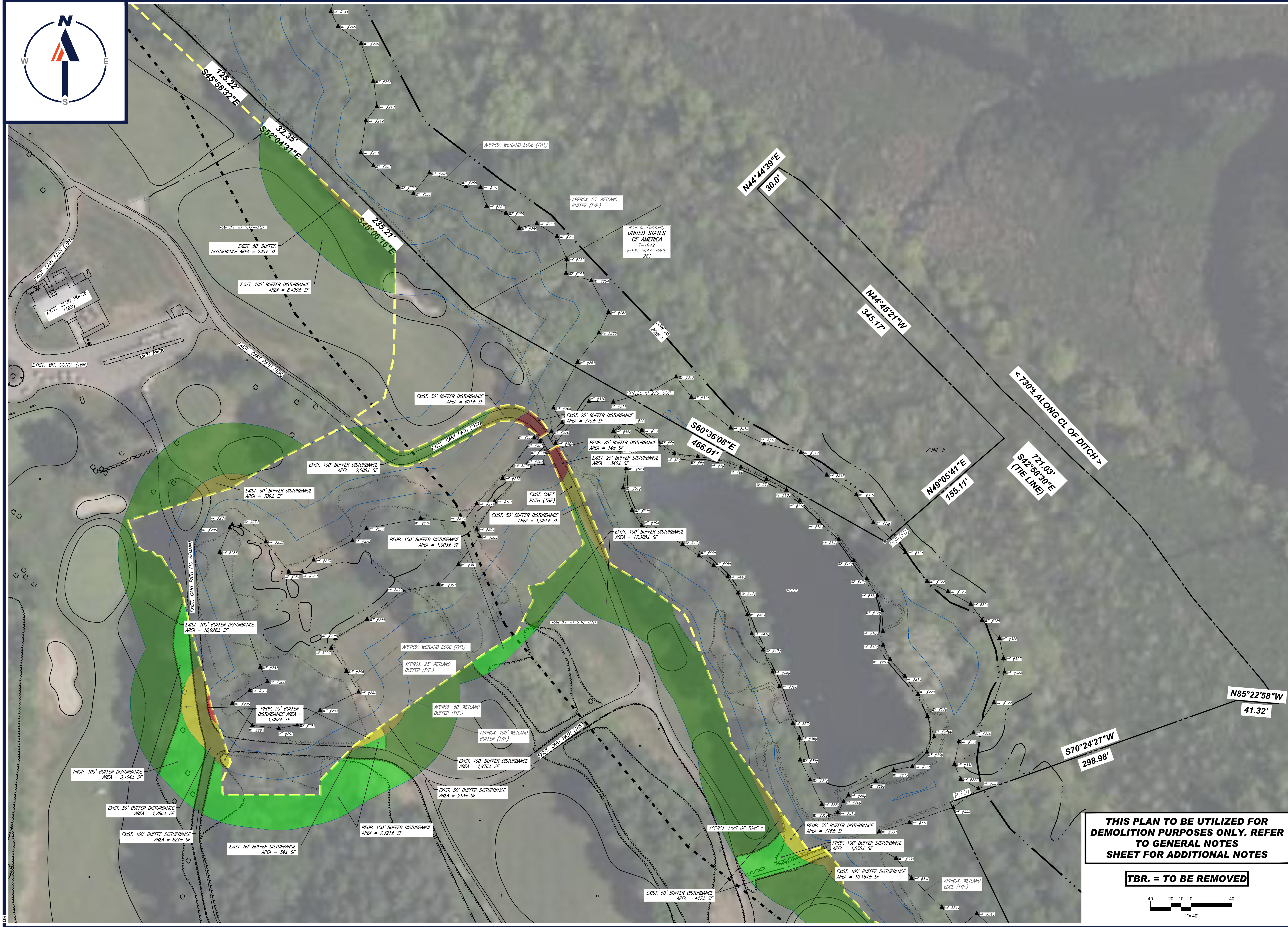
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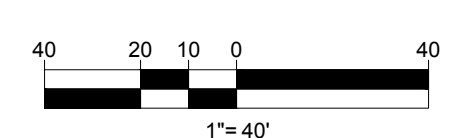
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SHEET TITLE:
DEMOLITION PLAN D
 SHEET NUMBER:
C-205
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PROP. 100' BUFFER DISTURBANCE AREA = 7,321± SF

EXIST. 50' BUFFER DISTURBANCE AREA = 447± SF

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.)

APPROX. 25' WETLAND BUFFER (TYP.)

APPROX. 50' WETLAND BUFFER (TYP.)

APPROX. 100' WETLAND BUFFER (TYP.)

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

EXIST. TREELINE (TYP.)

EXIST. GOLF FAIRWAY (TYP.)

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

EXIST. TREELINE (TYP.)

PROP. 100' BUFFER DISTURBANCE AREA = 97± SF

PROP. LIMIT OF WORK (TYP.)

EXIST. CART PATH (TO REMAIN)

APPROX. 100' WETLAND BUFFER (TYP.)

APPROX. 50' WETLAND BUFFER (TYP.)

APPROX. 25' WETLAND BUFFER (TYP.)

APPROX. WETLAND EDGE (TYP.)

S25°35'24"E
687.21'

S57°33'51"E
89.76'

322.08'
S56°02'25"W

S43°26'35"E
169.30'

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SHEET TITLE:

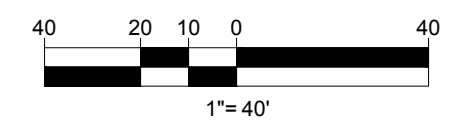
DEMOLITION PLAN F

SHEET NUMBER:
C-207

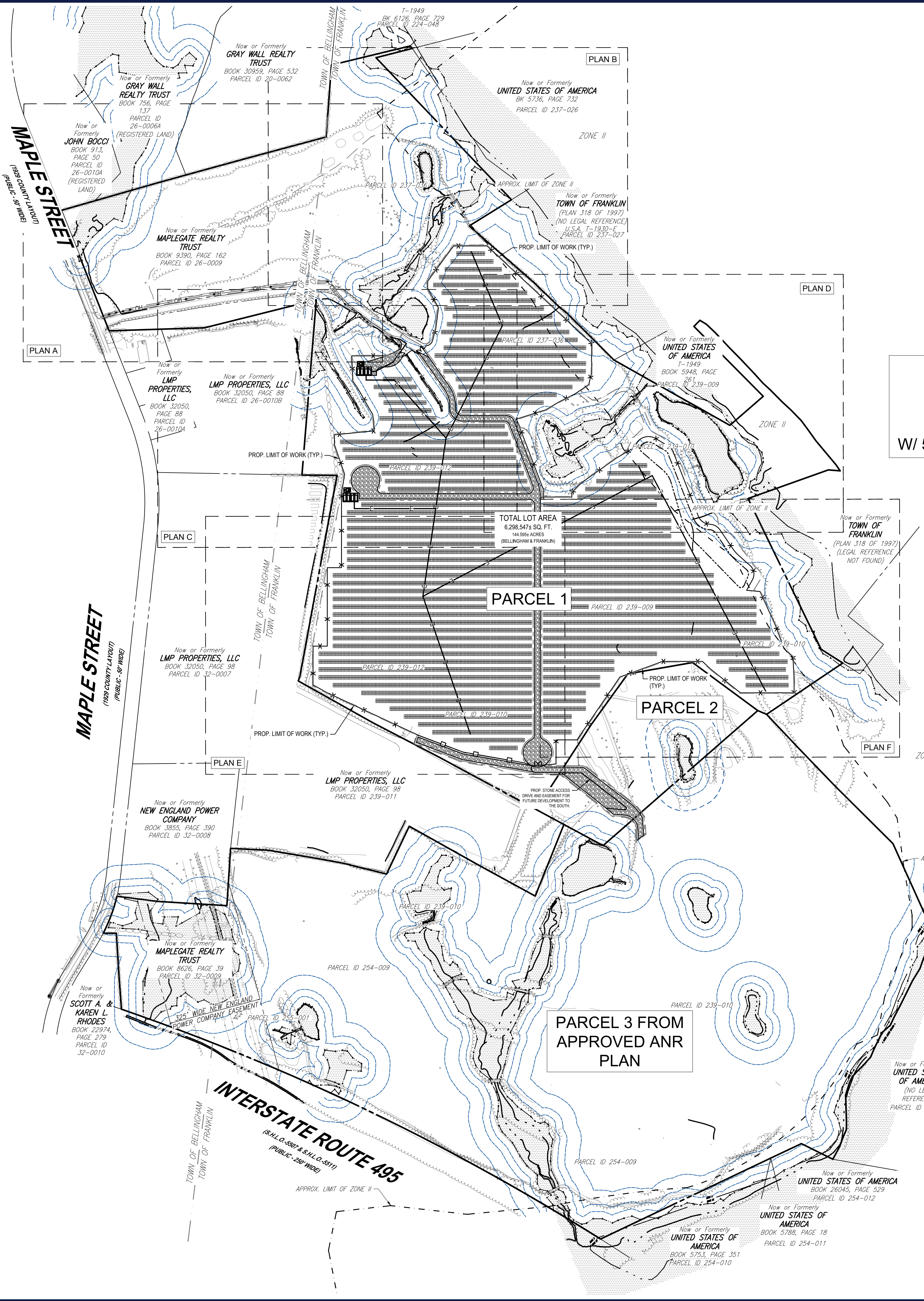
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- EXISTING ZONING CRITERIA INCLUDES PARCELS D,E,F,G,H,I.
- IMPERVIOUS COVERAGE PERCENTAGE INCLUDES 2.03 ACRES OF GRAVEL.
- IMPERVIOUS COVERAGE PERCENTAGE INCLUDES 1.60 ACRES OF GRAVEL.

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

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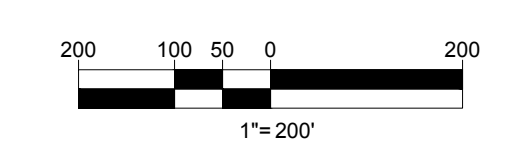
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LOAM AND SEED SHALL BE PROPOSED IN AREAS WHERE GRAVEL OR PAVED CART PATHS, ROADWAYS, AND PARKING AREAS ARE TO BE REMOVED (TYP.)

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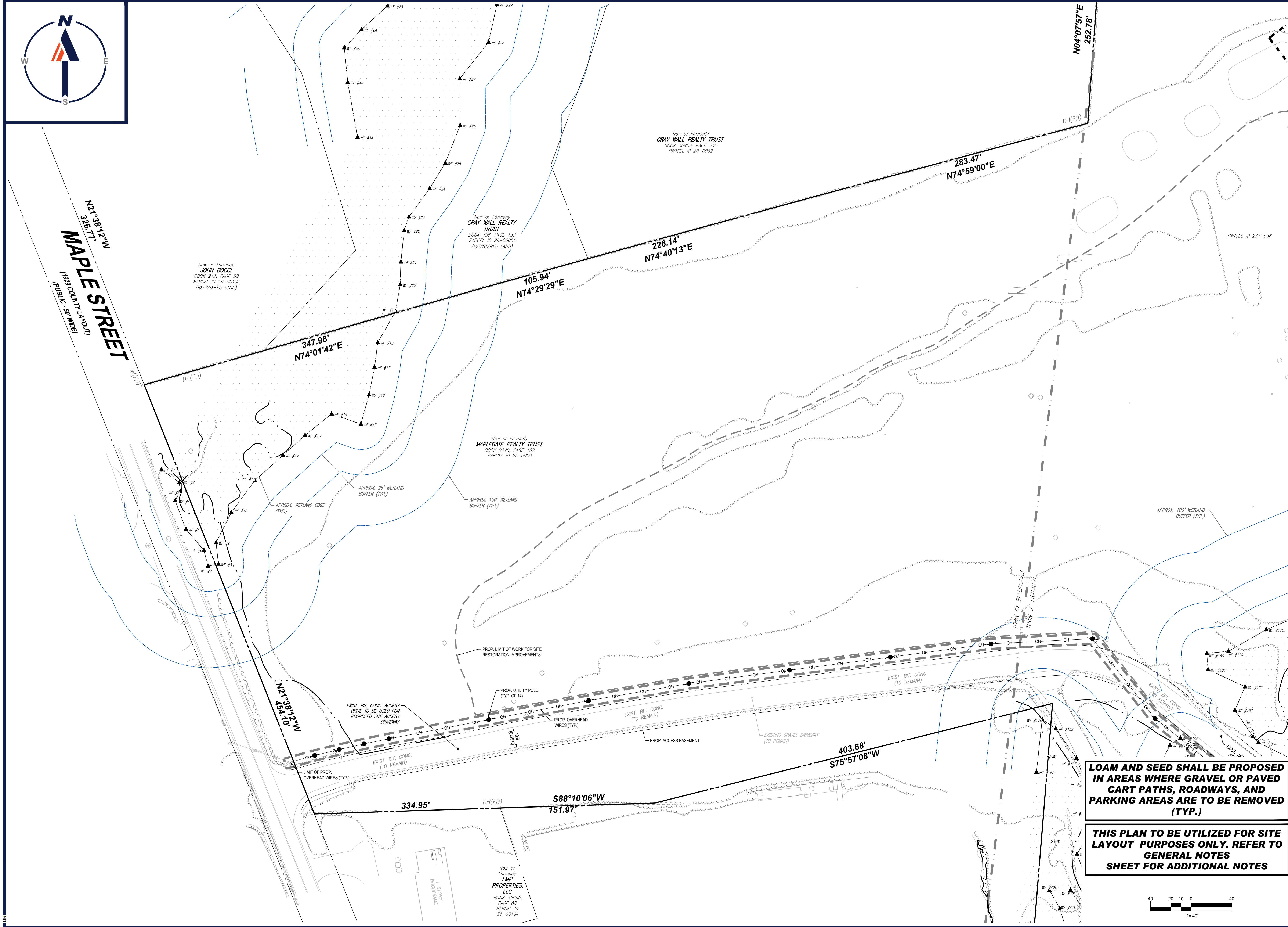


SHEET TITLE:
OVERALL SITE LAYOUT PLAN

SHEET NUMBER:
C-301

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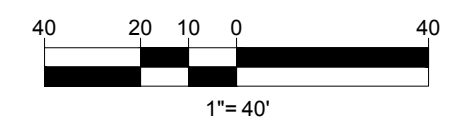
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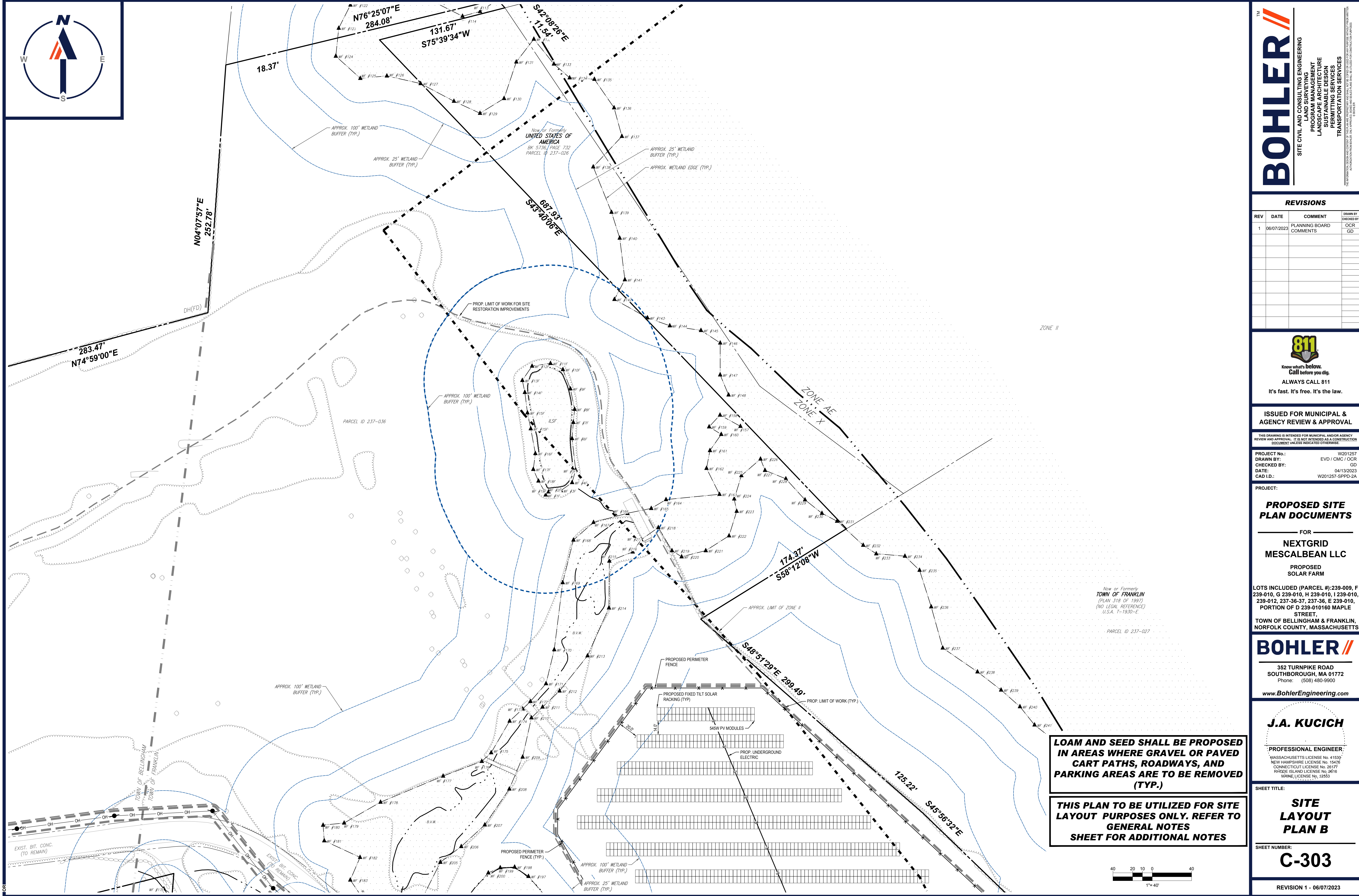
SHEET TITLE:
SITE LAYOUT PLAN A
 SHEET NUMBER:
C-302
 REVISION 1 - 06/07/2023

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

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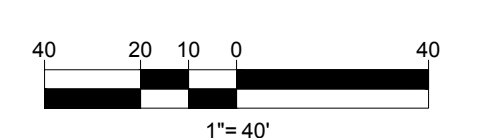
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SHEET TITLE:
SITE LAYOUT PLAN B

SHEET NUMBER:
C-303

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S88°10'06"W
151.97'

403.68'
S75°57'08"W

616.23'
N04°40'53"E

N89°28'44"W
115.74'

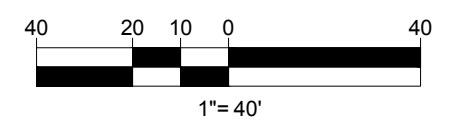
N89°28'44"W
123.08'

Now or Formerly
LMP PROPERTIES,
LLC
BOOK 32050,
PAGE 88
PARCEL ID
26-00104

Now or Formerly
LMP PROPERTIES, LLC
BOOK 32050, PAGE 88
PARCEL ID 26-00108

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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 239-010160 MAPLE STREET,
TOWN OF BELLINGHAM & FRANKLIN, NORFOLK COUNTY, MASSACHUSETTS

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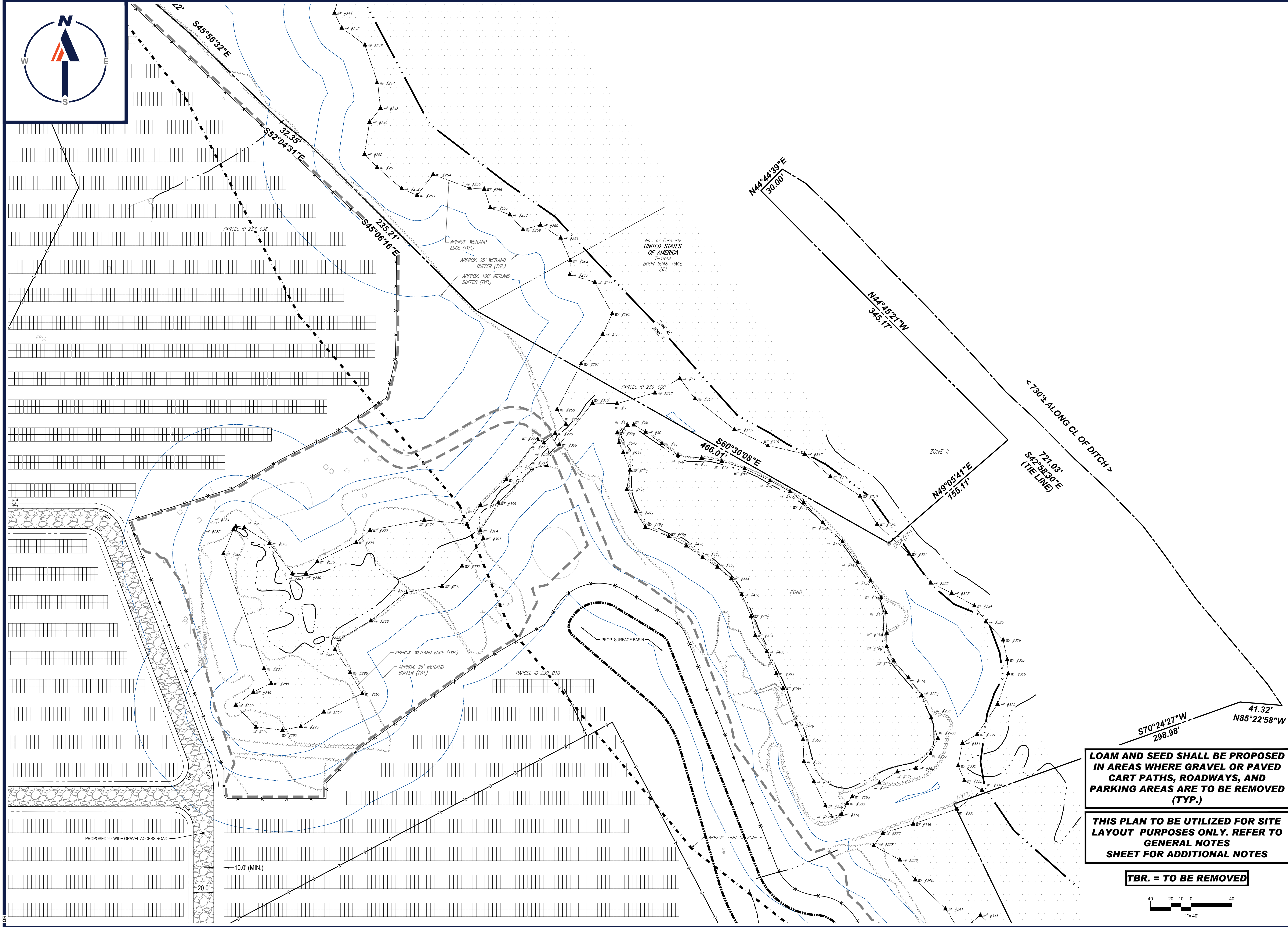
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NEW HAMPSHIRE LICENSE No. 15476
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RHODE ISLAND LICENSE No. 3616
MAINE LICENSE No. 12553

SHEET TITLE:
SITE LAYOUT PLAN C

SHEET NUMBER:
C-304

REVISION 1 - 06/07/2023

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PROJECT No.: W201257
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 CHECKED BY: GD
 DATE: 04/13/2023
 CAD ID: W201257-SPPD-2A

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 239-010160 MAPLE STREET,
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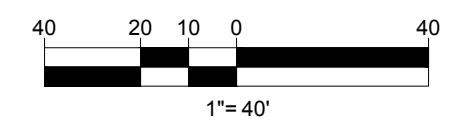
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LOAM AND SEED SHALL BE PROPOSED IN AREAS WHERE GRAVEL OR PAVED CART PATHS, ROADWAYS, AND PARKING AREAS ARE TO BE REMOVED (TYP.)

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

TBR. = TO BE REMOVED

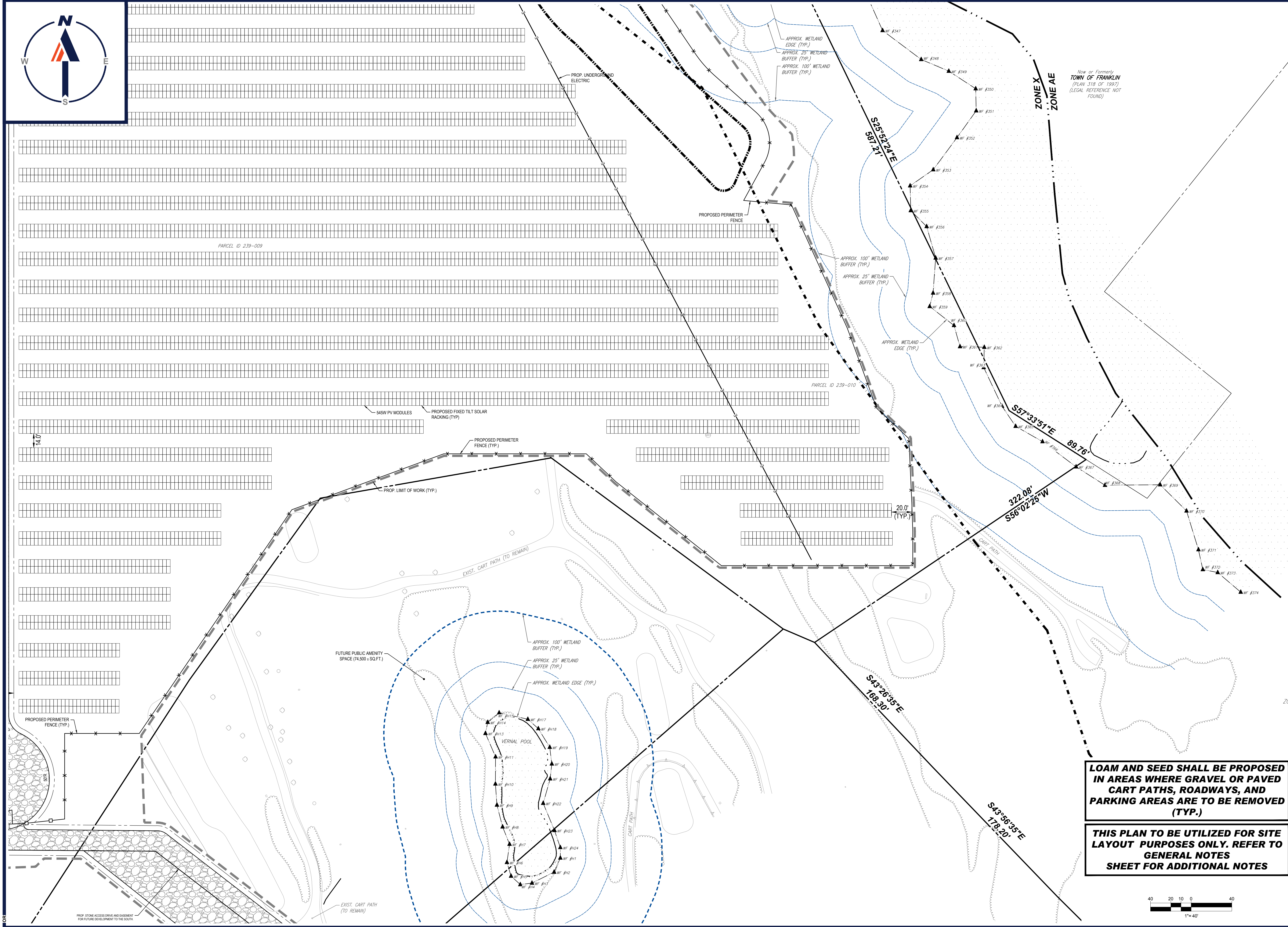


SHEET TITLE:
SITE LAYOUT PLAN D

SHEET NUMBER:
C-305

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PROJECT No.: W201257
 DRAWN BY: EVD / CMC / OCR
 CHECKED BY: GD
 DATE: 04/13/2023
 CAD ID: W201257-SPPD-2A

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 239-010160 MAPLE STREET,
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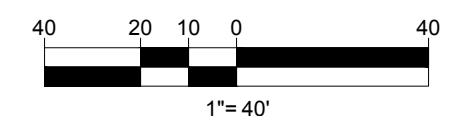
SHEET TITLE:
SITE LAYOUT PLAN F

SHEET NUMBER:
C-307

REVISION 1 - 06/07/2023

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

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 CAD ID: W201257-GRAD-2A

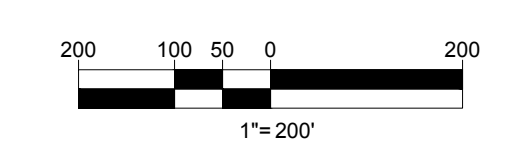
PROJECT:
PROPOSED SITE PLAN DOCUMENTS
 FOR
NEXTGRID MESCALBEAN LLC
 PROPOSED SOLAR FARM
 LOTS INCLUDED (PARCEL #): 239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010160 MAPLE STREET,
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SHEET TITLE:
OVERALL GRADING PLAN
 SHEET NUMBER:
C-401
 REVISION 1 - 06/07/2023

- 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**



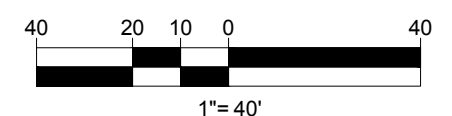


CONTRACTOR TO RETAIN EXISTING TOPSOIL TO BE STOCKPILED, SCREENED, AND REUSED IN OTHER LOCATIONS THROUGHOUT THE SITE.

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.

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PROJECT No.: W201257
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 DATE: 04/13/2023
 CAD ID: W201257-GRAD-2A

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 239-010160 MAPLE STREET,
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SHEET TITLE:

GRADING PLAN A

SHEET NUMBER:
C-402

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 CAD ID: W201257-GRAD-2A

PROPOSED SITE PLAN DOCUMENTS

FOR
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 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 239-010160 MAPLE STREET,
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SHEET TITLE:
GRADING PLAN B

SHEET NUMBER:
C-403

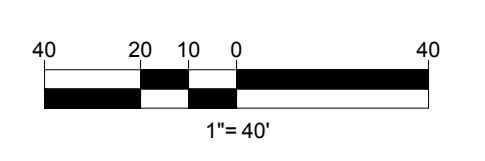
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CONTRACTOR TO RETAIN EXISTING TOPSOIL TO BE STOCKPILED, SCREENED, AND REUSED IN OTHER LOCATIONS THROUGHOUT THE SITE.

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

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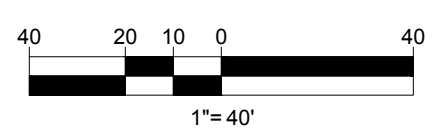


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 DATE: 04/13/2023
 CAD ID: W201257-GRAD-2A

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 239-010160 MAPLE STREET,
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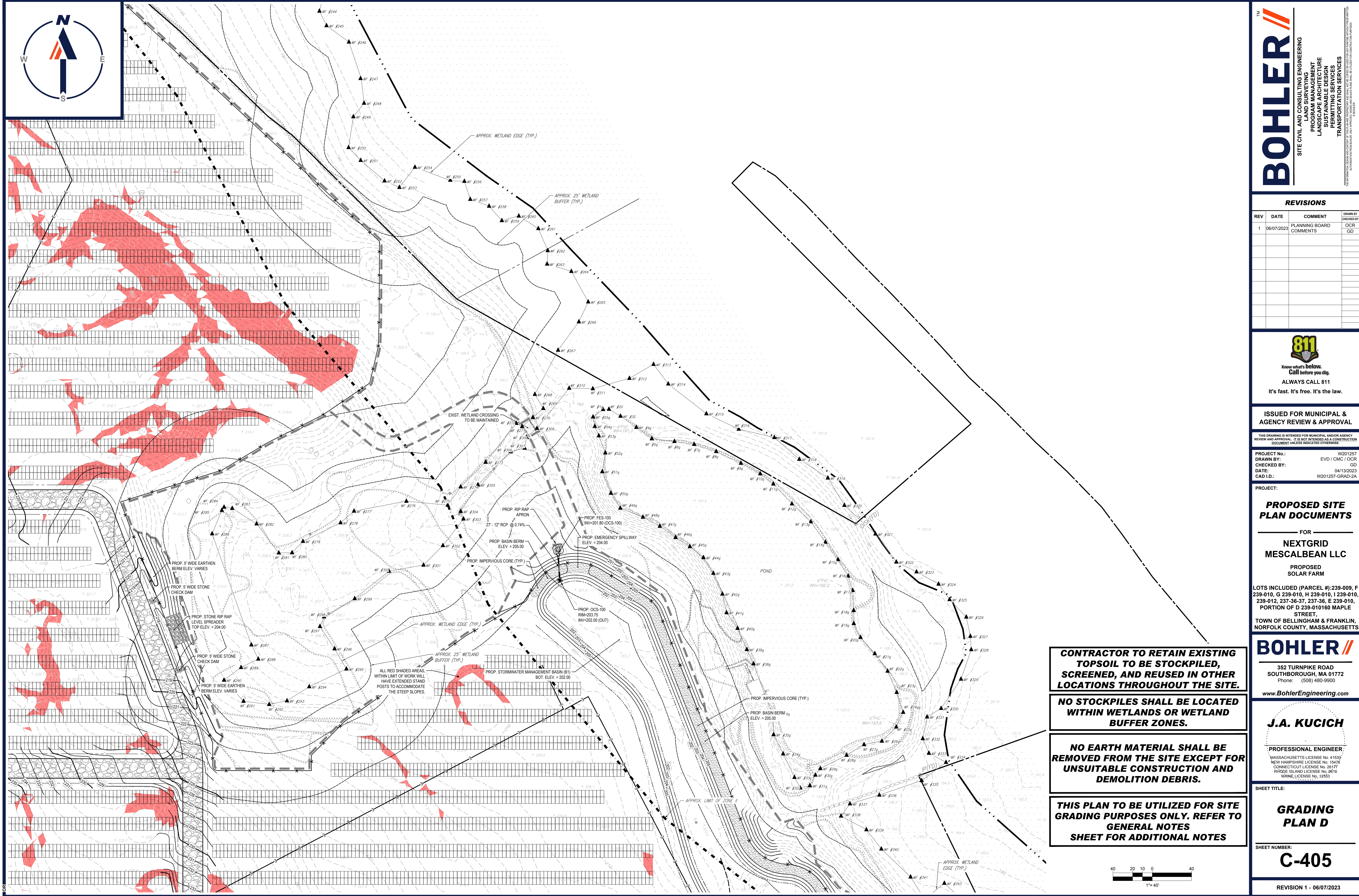
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SHEET TITLE:
GRADING PLAN C
 SHEET NUMBER:
C-404

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 CAD ID: W201257-GRAD-2A

PROPOSED SITE PLAN DOCUMENTS

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 PROPOSED SOLAR FARM

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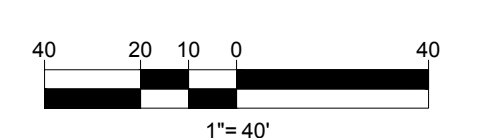
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 NEW HAMPSHIRE LICENSE No. 15476
 CONNECTICUT LICENSE No. 26177
 RHODE ISLAND LICENSE No. 3616
 MAINE LICENSE No. 12553

SHEET TITLE:
GRADING PLAN D

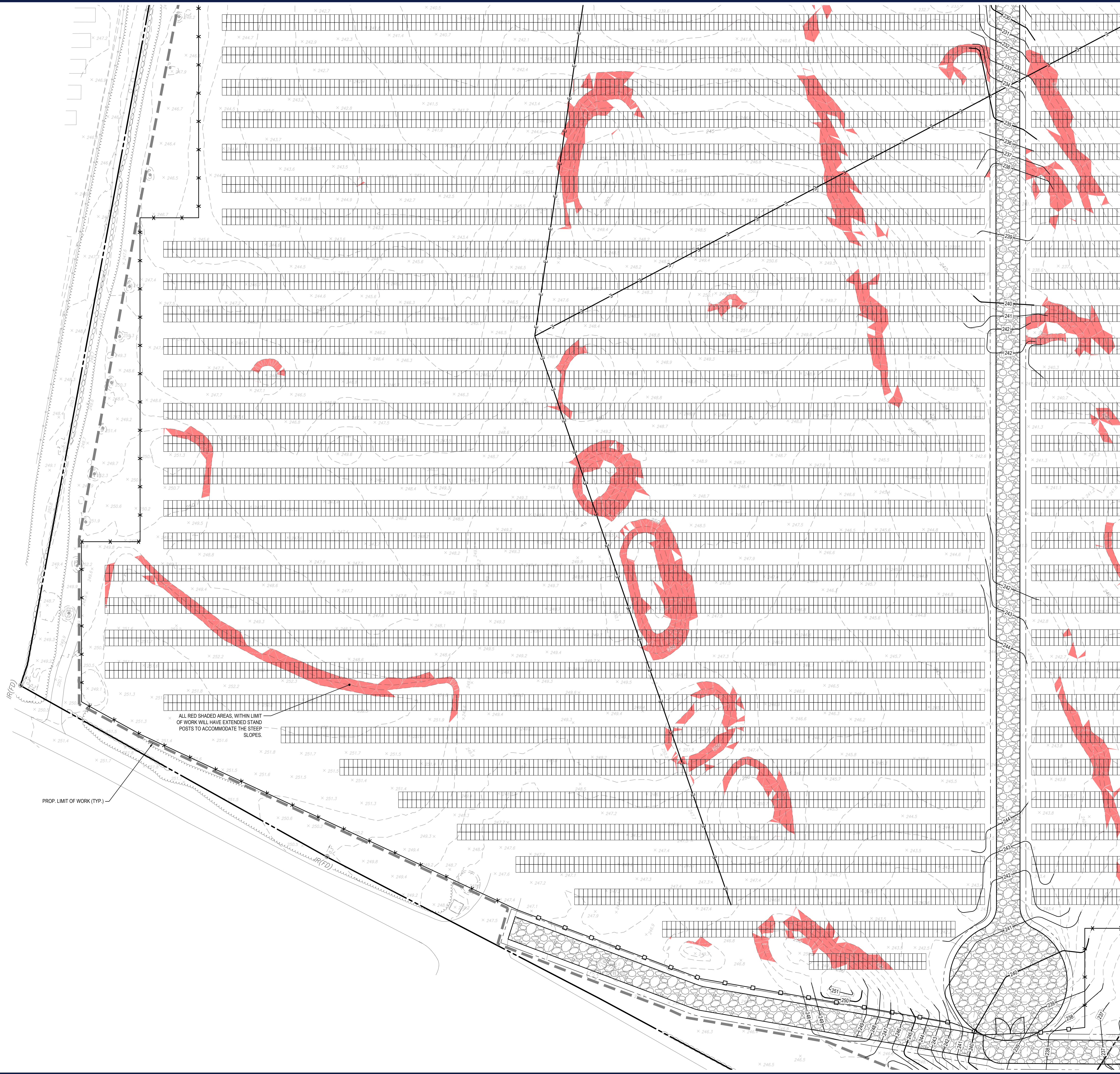
SHEET NUMBER:
C-405

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- 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**



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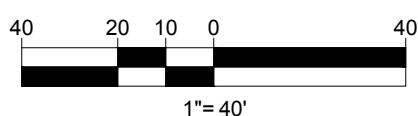


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PROPOSED SITE PLAN DOCUMENTS

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 239-010160 MAPLE STREET,
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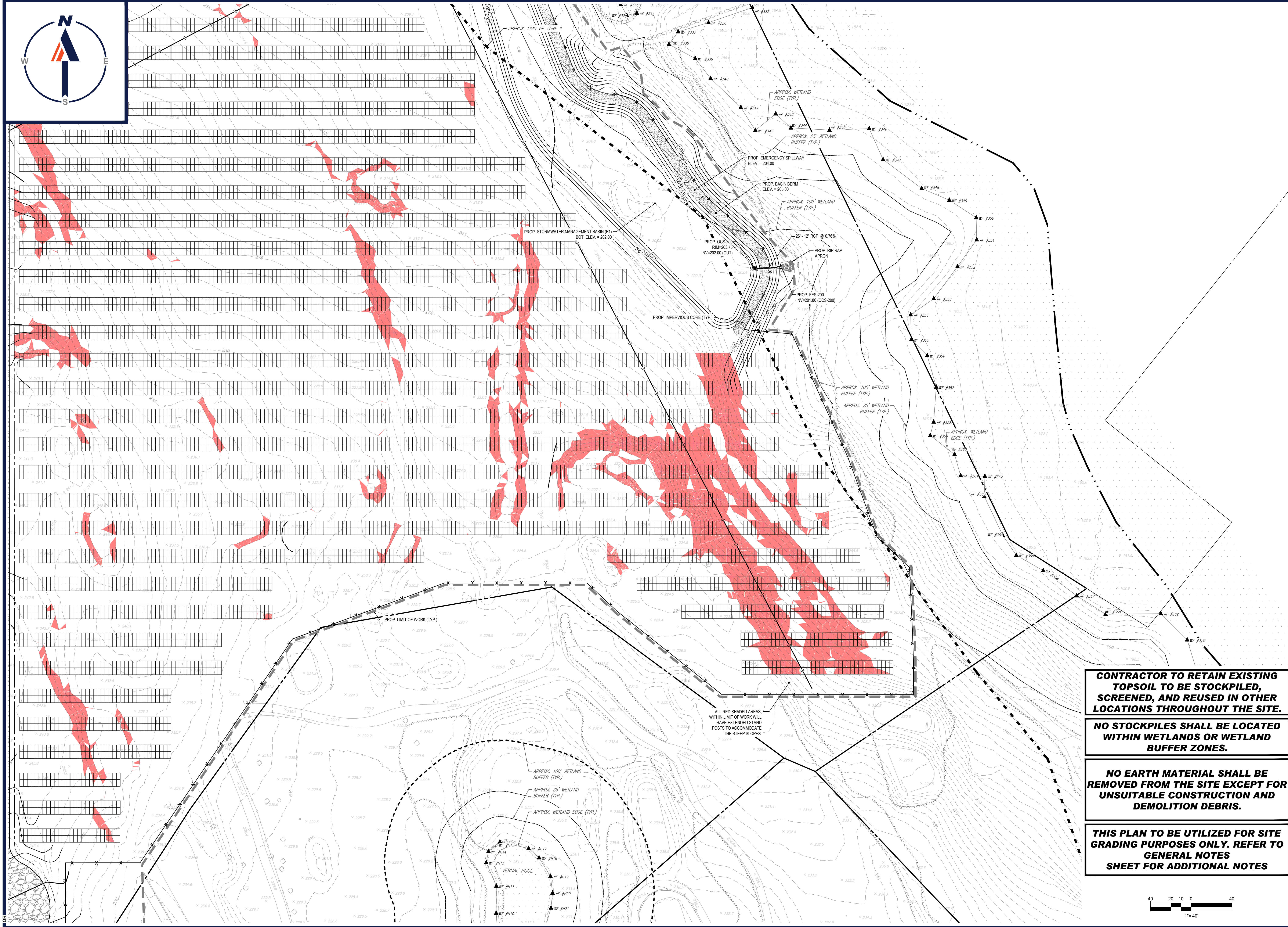
SHEET TITLE:

GRADING PLAN E

SHEET NUMBER:
C-406

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SHEET TITLE:

GRADING PLAN F

SHEET NUMBER:
C-407

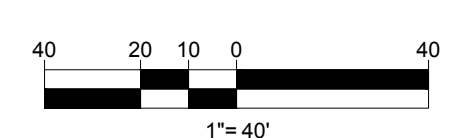
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CONTRACTOR TO RETAIN EXISTING TOPSOIL TO BE STOCKPILED, SCREENED, AND REUSED IN OTHER LOCATIONS THROUGHOUT THE SITE.

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



P:\2023\2023\CADD\DRAWINGS\PLAN SET\CIVIL SITE PLANS\W201257-GRAD-2A-LAYOUT C-407-GRAD.F



P:\01\20137\CADD\DRAWINGS\PLAN SET\CIVIL SITE PLANS\W201257-EROS-2A.dwg - LAYOUT: C-601 - OVERALL ERROR

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 DATE: 04/13/2023
 CAD ID: W201257-EROS-2A

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 239-010160 MAPLE STREET,
 TOWN OF BELLINGHAM & FRANKLIN, NORFOLK COUNTY, MASSACHUSETTS

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

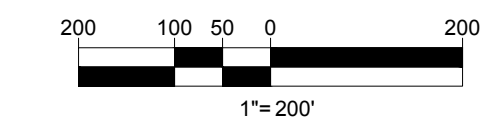
EROSION CONTROL BARRIER SHALL CONSIST OF BOTH COMPOST SOCK AND SIT FENCE UNLESS OTHERWISE NOTED. SEE DETAILS FOR MORE INFORMATION.

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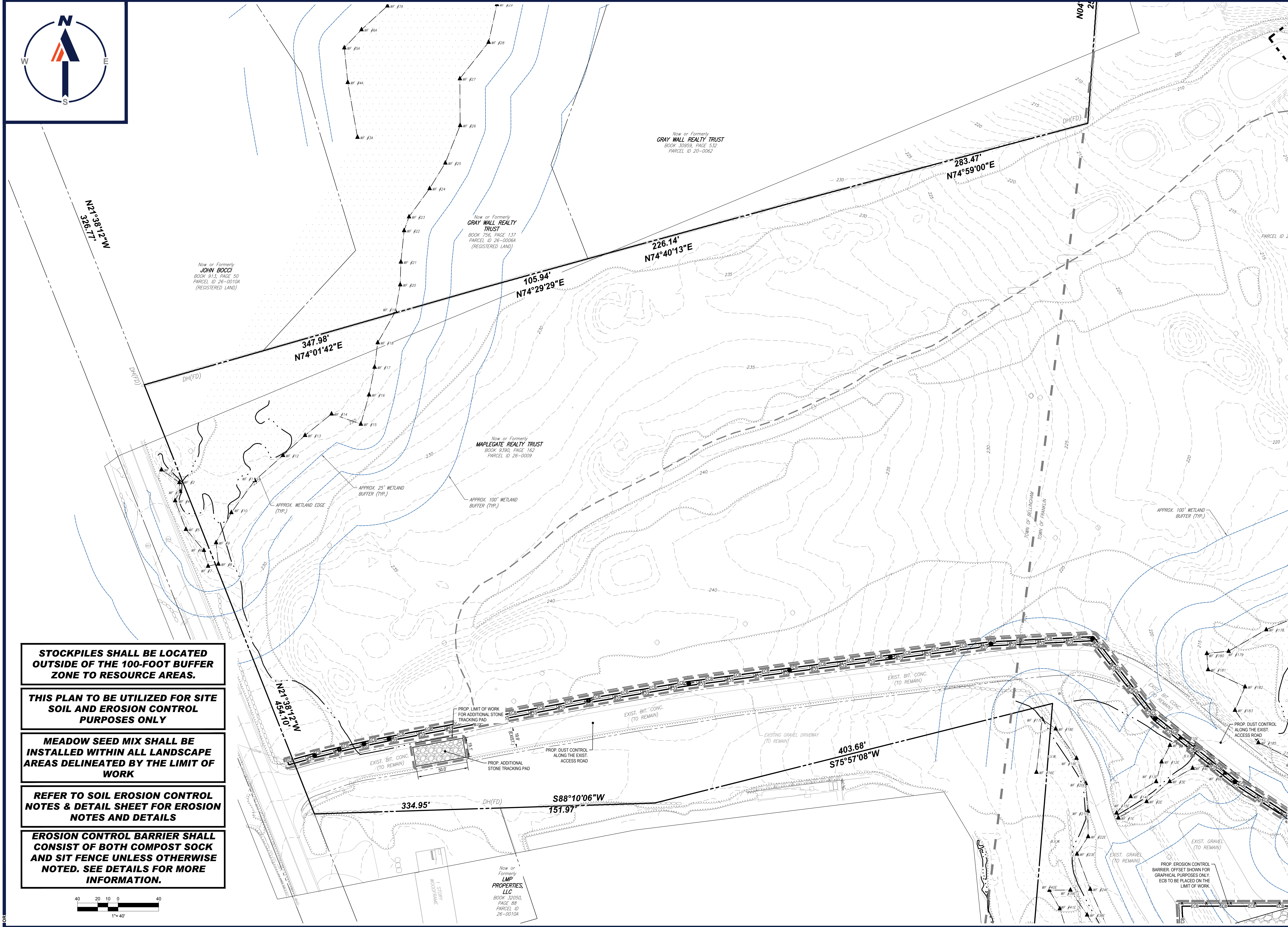
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 NEW HAMPSHIRE LICENSE No. 15476
 CONNECTICUT LICENSE No. 26177
 RHODE ISLAND LICENSE No. 3616
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SHEET TITLE:
OVERALL SOIL EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER:
C-601



REVISION 1 - 06/07/2023



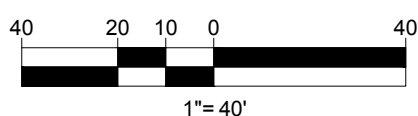
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 CAD ID: W201257-EROS-2A

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 239-010160 MAPLE STREET,
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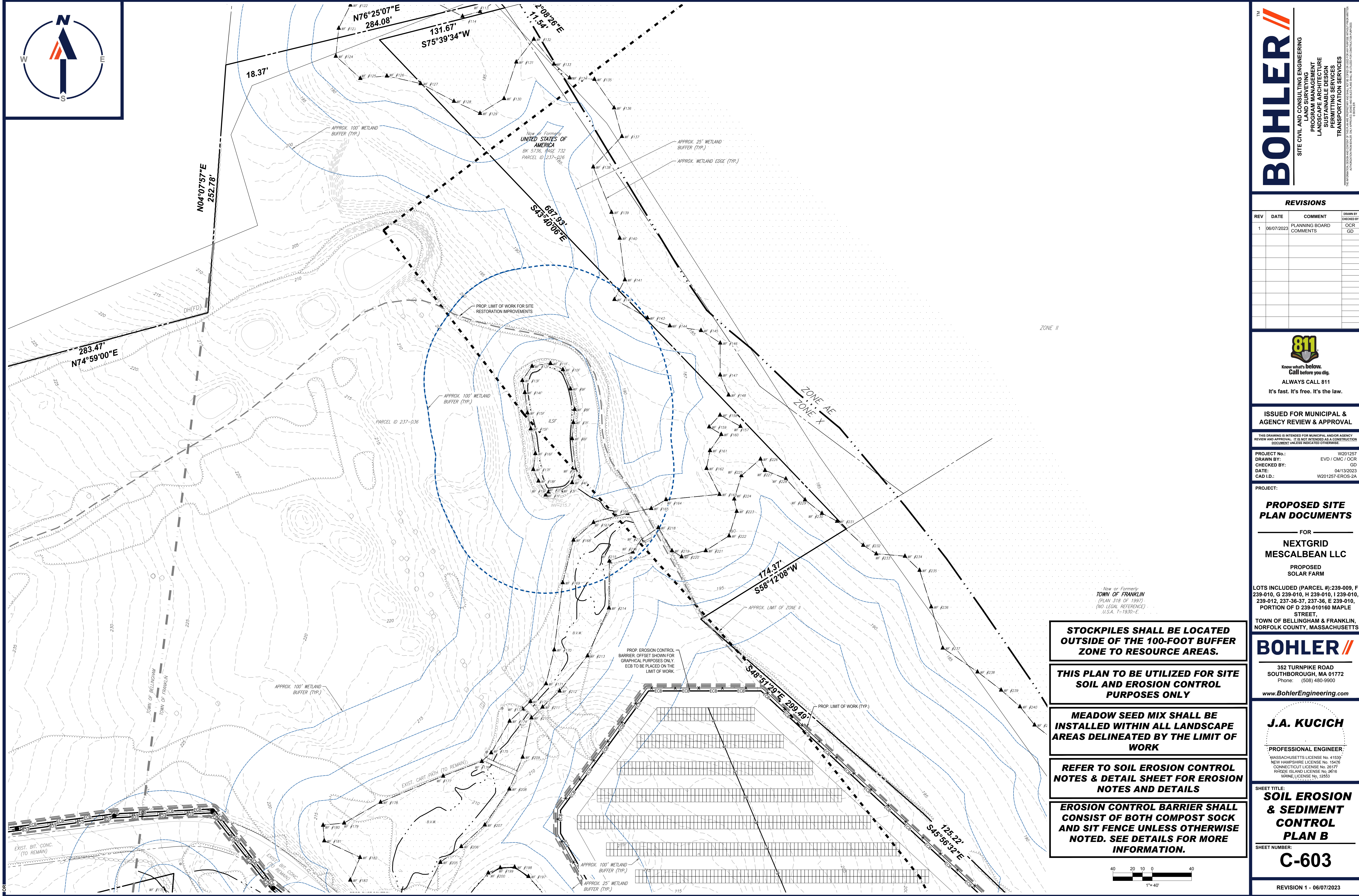
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SHEET TITLE:
SOIL EROSION & SEDIMENT CONTROL PLAN A

SHEET NUMBER:
C-602

REVISION 1 - 06/07/2023

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PROPOSED SITE PLAN DOCUMENTS

FOR
NEXTGRID MESCALBEAN LLC
 PROPOSED SOLAR FARM

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SHEET TITLE:
SOIL EROSION & SEDIMENT CONTROL PLAN B

SHEET NUMBER:
C-603

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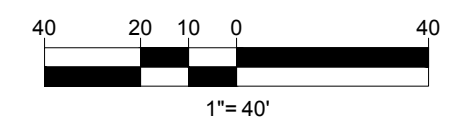
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REFER TO SOIL EROSION CONTROL NOTES & DETAIL SHEET FOR EROSION NOTES AND DETAILS

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



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S88°10'06"W
151.97'

403.68'
S75°57'08"W

616.23'
N04°40'53"E

N89°28'44"W
115.74'

N89°28'44"W
123.08'

Now or Formerly
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LLC
BOOK 32050,
PAGE 88
PARCEL ID
26-00104

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LMP PROPERTIES, LLC
BOOK 32050, PAGE 88
PARCEL ID 26-00108

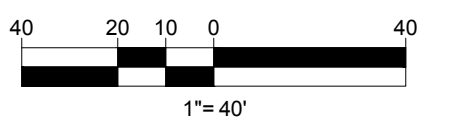
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CHECKED BY: GD
DATE: 04/13/2023
CAD ID: W201257-EROS-2A

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 239-010160 MAPLE STREET,
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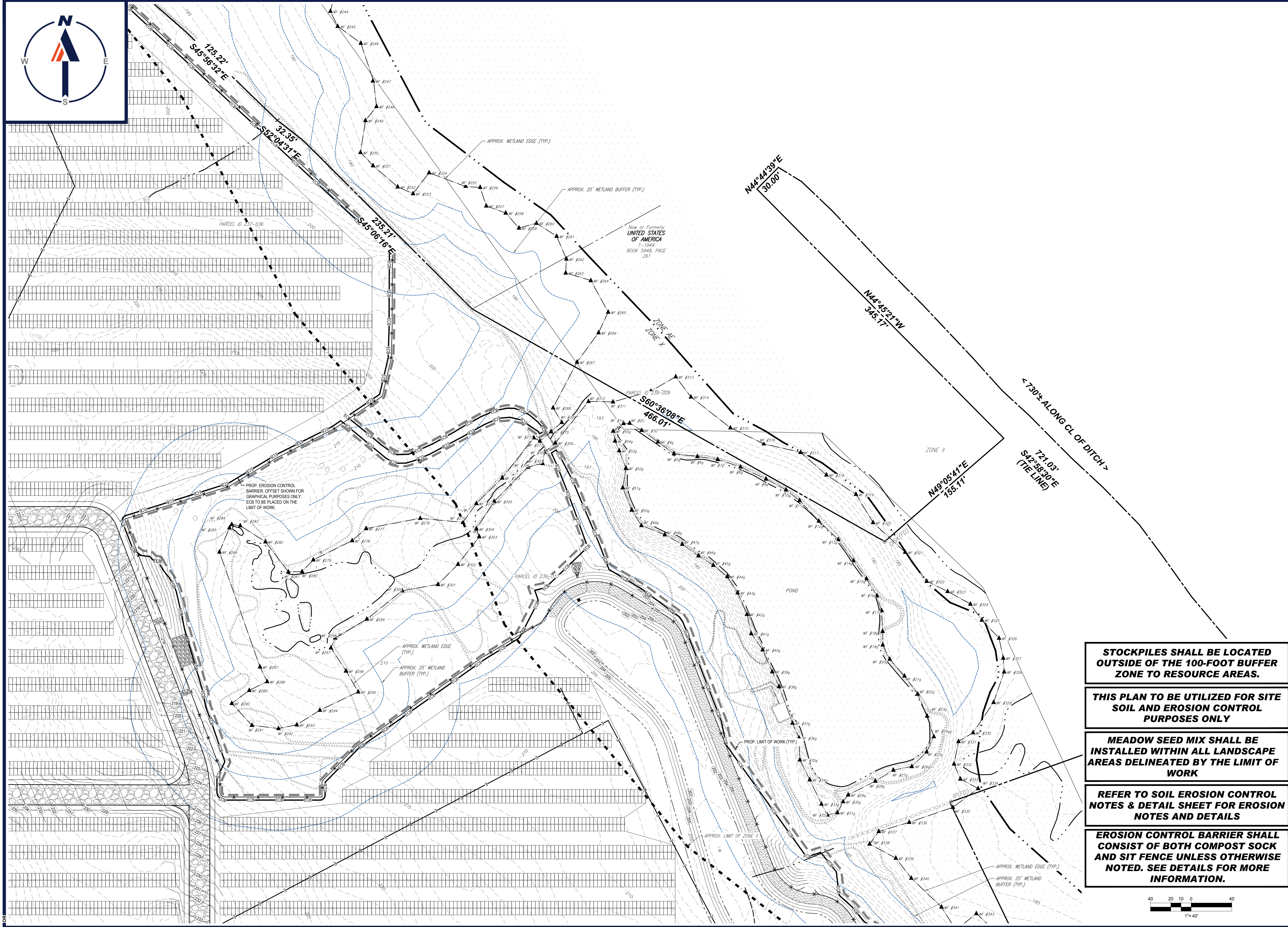
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NEW HAMPSHIRE LICENSE No. 15476
CONNECTICUT LICENSE No. 26177
RHODE ISLAND LICENSE No. 3616
MAINE LICENSE No. 12553

SHEET TITLE:
**SOIL EROSION
& SEDIMENT
CONTROL
PLAN C**

SHEET NUMBER:
C-604

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PROJECT:
PROPOSED SITE PLAN DOCUMENTS
 FOR
NEXTGRID MESCALBEAN LLC
 PROPOSED SOLAR FARM

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SHEET TITLE:
SOIL EROSION & SEDIMENT CONTROL PLAN D

SHEET NUMBER:
C-605

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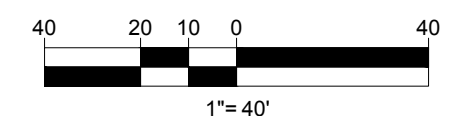
STOCKPILES SHALL BE LOCATED OUTSIDE OF THE 100-FOOT BUFFER ZONE TO RESOURCE AREAS.

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

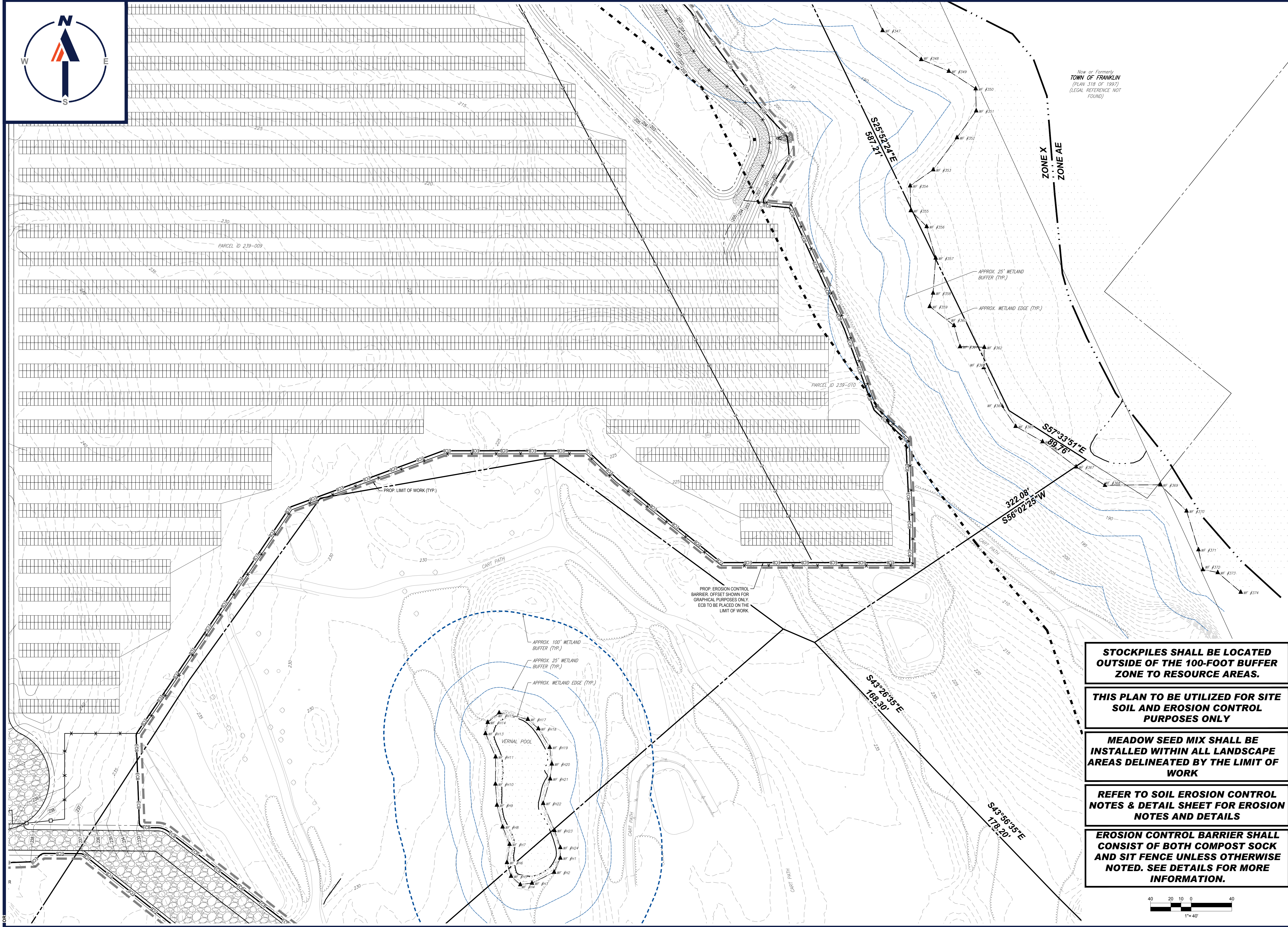
MEADOW SEED MIX SHALL BE INSTALLED WITHIN ALL LANDSCAPE AREAS DELINEATED BY THE LIMIT OF WORK

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(PLAN 318 OF 1997)
(LEGAL REFERENCE NOT
FOUND)

ZONE X
ZONE AE

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DATE: 04/13/2023
CAD ID: W201257-ERDS-2A

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 239-010160 MAPLE STREET,
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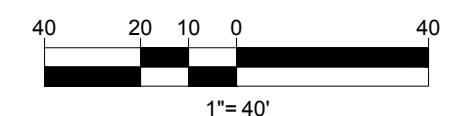
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SHEET TITLE:
SOIL EROSION & SEDIMENT CONTROL PLAN F
SHEET NUMBER:
C-607
REVISION 1 - 06/07/2023

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EROSION AND SEDIMENT CONTROL NOTES

- ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE AS SET FORTH IN THE MOST CURRENT STATE SEDIMENT AND EROSION CONTROL MANUAL.
- 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).
- 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%.
- 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.
- 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.
- 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.
- 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.
- 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.
- DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL STANDARDS.
- REVEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE SPECIFIED WILL BE GRADED, SMOOTHED, AND PREPARED FOR FINAL SEEDING AS FOLLOWS:
 - SIX INCHES, OR DEPTH SPECIFIED ON THE LANDSCAPE PLAN, OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE.
 - 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 (188 LB PER 1,000 SF).
 - FOLLOWING SEED BED PREPARATION, DITCHES AND BACK SLOPES WILL BE SEED TO A MIXTURE OF 47% CREEPING RED FESCUE, 5% REDTOP, AND 48% TALL FESCUE. THE LAWN AREAS WILL BE SEED TO A PREMIUM TURF MIXTURE OF 44% KENTUCKY BLUEGRASS, 44% CREEPING RED FESCUE, AND 12% PERENNIAL RYEGRASS. SEEDING RATE IS 1.03 LBS PER 1,000 SF LAWN. QUALITY SOO MAY BE SUBSTITUTED FOR SEED WHERE SLOPES DO NOT EXCEED 2:1. SOO ON SLOPES STEEPER THAN 3:1 SHOULD BE PEGGED.
 - 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.

- 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.
- WETLANDS WILL BE PROTECTED WITH BARRIERS CONSISTING OF STRAW BALES, COMPOST TUBES, SILT FENCE OR A COMBINATION THEREOF.
- ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL HAVE AN EXPOSURE WINDOW OF NOT MORE THAN 7 DAYS.
- 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 PROTECTED AREA	MULCH STRAW	MULCH RATE (1000 SF)
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.

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

- EROSION CONTROL NOTES DURING WINTER CONSTRUCTION
- WINTER CONSTRUCTION PERIOD: NOVEMBER 1 THROUGH APRIL 15.
- 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.
- 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.
- 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 SEEDING, MULCHED AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE.
- FOR AREAS WHERE CONSTRUCTION ACTIVITIES HAVE CEASED FOR A PERIOD EXCEEDING 14 DAYS BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH, LOAM OR SEED WILL NOT BE REQUIRED. THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDING. IF THE EXPOSED AREA HAS BEEN LOAMED, FINAL GRADED AND IS SMOOTH, THEN THE AREA MAY BE DORMANT SEEDING 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 WOOD 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.
- MULCHING REQUIREMENTS:
 - BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING OR WOOD CELLULOSE FIBER.
 - 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%.
 - MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15%. AFTER OCTOBER 1ST THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.
- ALL DISTURBED AREAS SHALL BE STABILIZED IN ACCORDANCE WITH THE STORMWATER PREVENTION PLAN.
- DURING THE WINTER CONSTRUCTION PERIOD ALL SNOW SHALL BE REMOVED FROM AREAS OF SEEDING AND MULCHING PRIOR TO PLACEMENT.

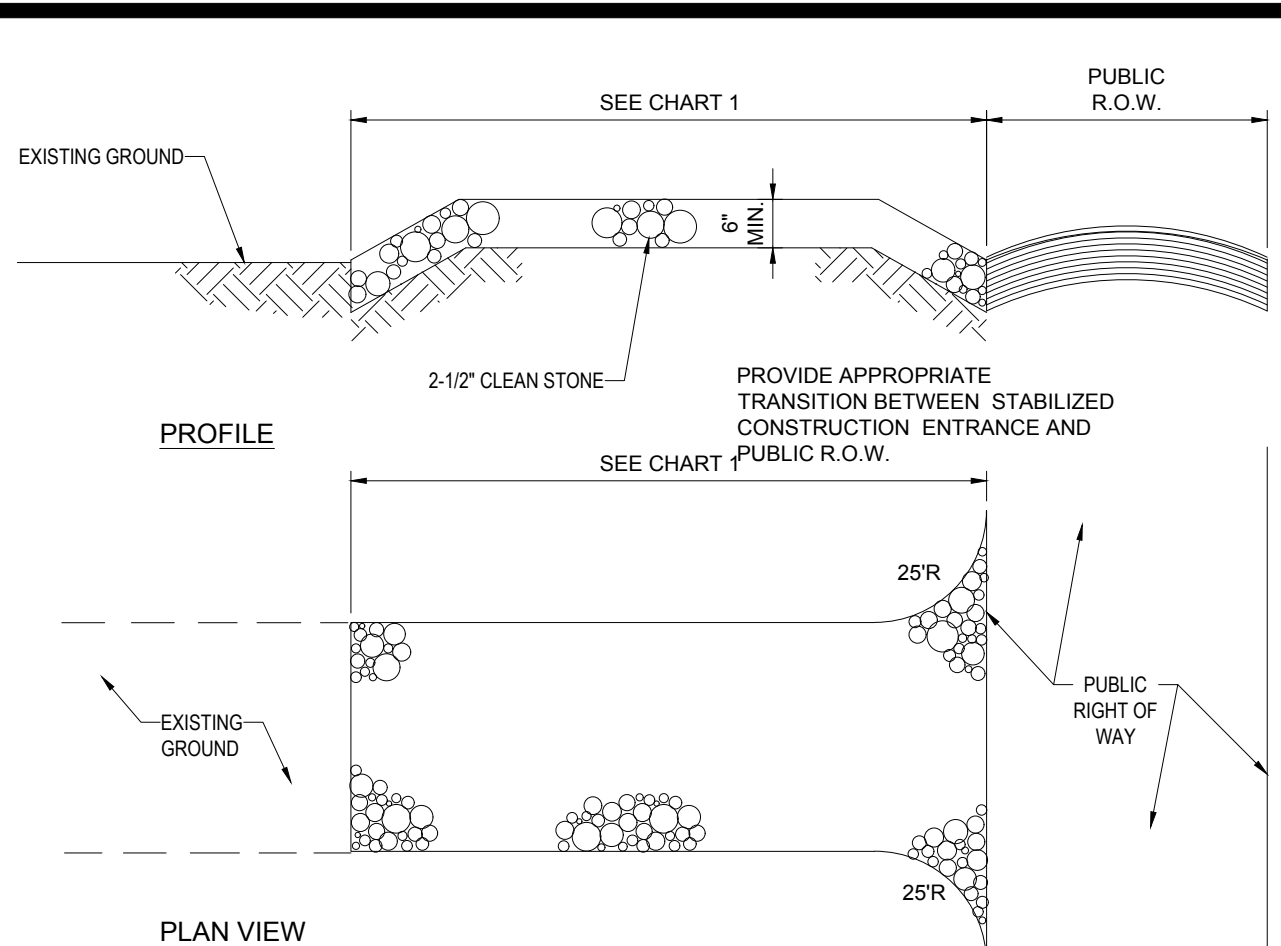
GENERAL EROSION AND SEDIMENT CONTROL NOTES

- 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.
- 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.
- THE DISTURBED LAND AREA OF THIS SITE IS APPROXIMATELY 44.133 ACRES.
- THE FOLLOWING EROSION CONTROL MEASURES ARE PROPOSED FOR THIS SITE:
 - 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. SEDIMENT FENCE - INSTALL SILT FENCE(S) AND/OR SILT SOCK AROUND ALL OF THE DOWNSLOPE PERIMETERS OF THE SITE, TEMPORARY FILL AND SOIL STOCKPILES.
 - 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.
- INSTALLATION OF EROSION CONTROL DEVICES MUST BE IN ACCORDANCE WITH ALL OF THE MANUFACTURER'S RECOMMENDATIONS.
- 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.
- 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.
- 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.
- THE CONTRACTOR MUST BE RESPONSIBLE FOR INSPECTING AND MAINTAINING ALL EROSION CONTROL MEASURES ON THE SITE UNTIL PERMANENT PAVING AND TURFLANDSCAPING 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.
- THE CONTRACTOR MUST CONTINUE TO MAINTAIN ALL EROSION CONTROL MEASURES UNTIL THE COMPLETION OF CONSTRUCTION AND THE ESTABLISHMENT OF VEGETATION.
- THE CONTRACTOR MUST REMOVE EROSION CONTROL MEASURES, SILT AND DEBRIS AFTER ESTABLISHING PERMANENT VEGETATION COVER OR OTHER INSTALLING A DIFFERENT, SPECIFIED METHOD OF STABILIZATION.
- THIS PLAN REPRESENTS THE MINIMUM LEVEL OF IMPLEMENTATION OF TEMPORARY EROSION CONTROL 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.
- 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.
- THE CONTRACTOR MUST REFER TO GRADING PLANS FOR ADDITIONAL INFORMATION.
- 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.
- 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.
- 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.

- 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
 - STABILIZE PERMANENT LAWN AREAS AND SLOPES WITH TEMPORARY SEEDING
 - 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.

RECOMMENDED CONSTRUCTION SEQUENCE

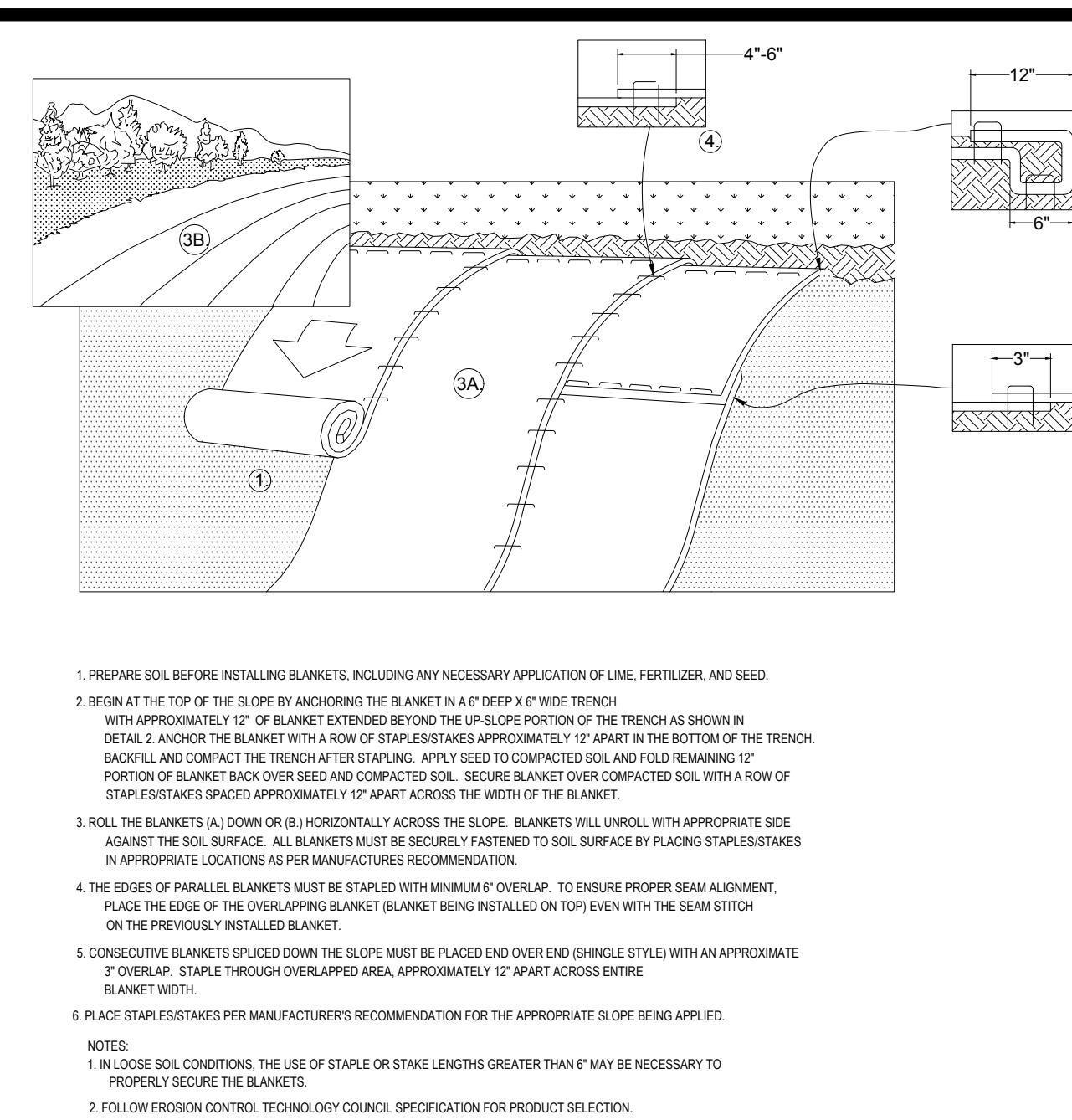
TREE PROTECTION DURING SITE CONSTRUCTION



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	200 FT
>5%	ENTIRE ENTRANCE STABILIZED WITH FABC BASE COURSE (1)	

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

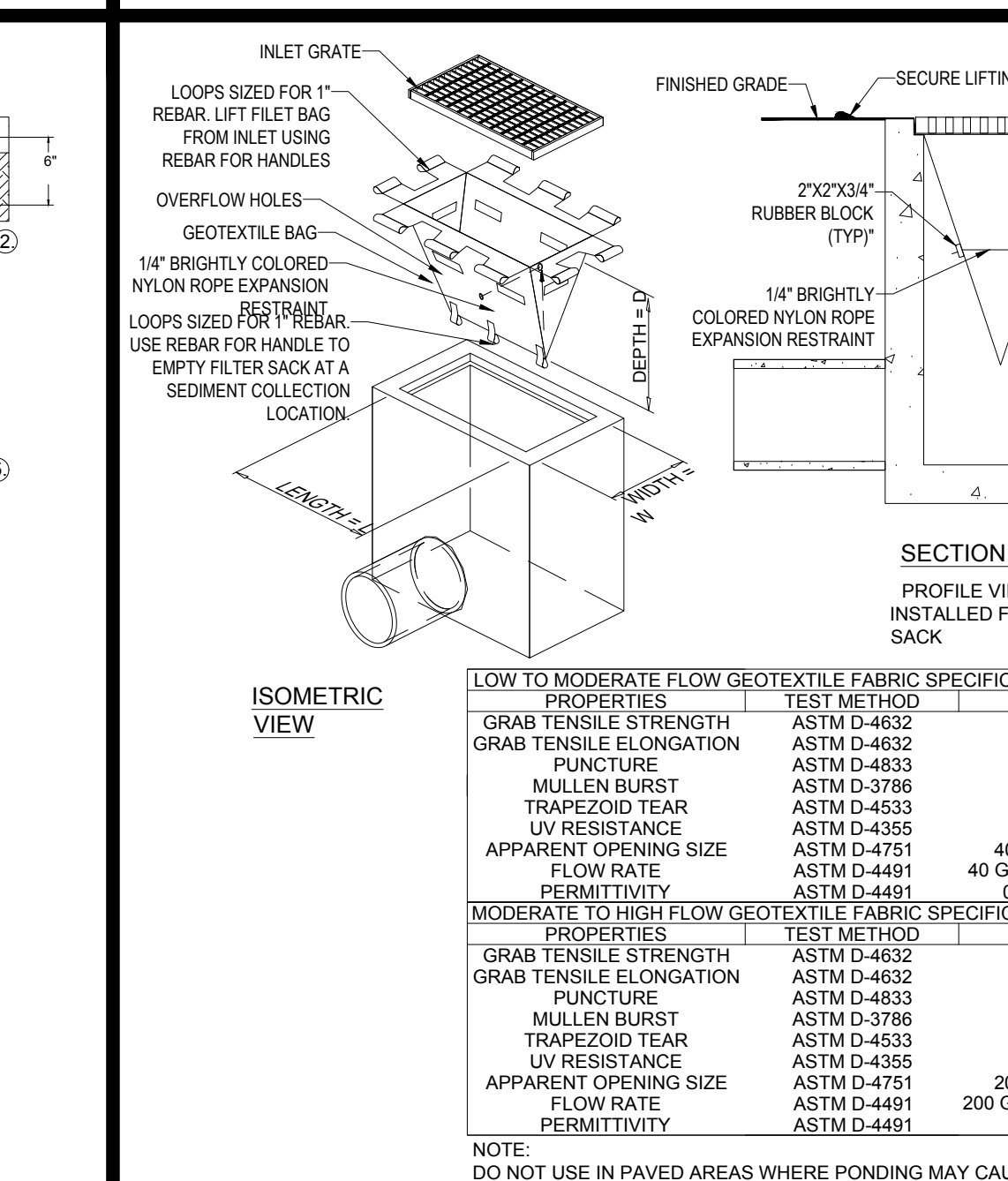
STABILIZED CONSTRUCTION ENTRANCE



EROSION CONTROL BLANKET 2:1 SLOPES (SLOPE INSTALLATION)

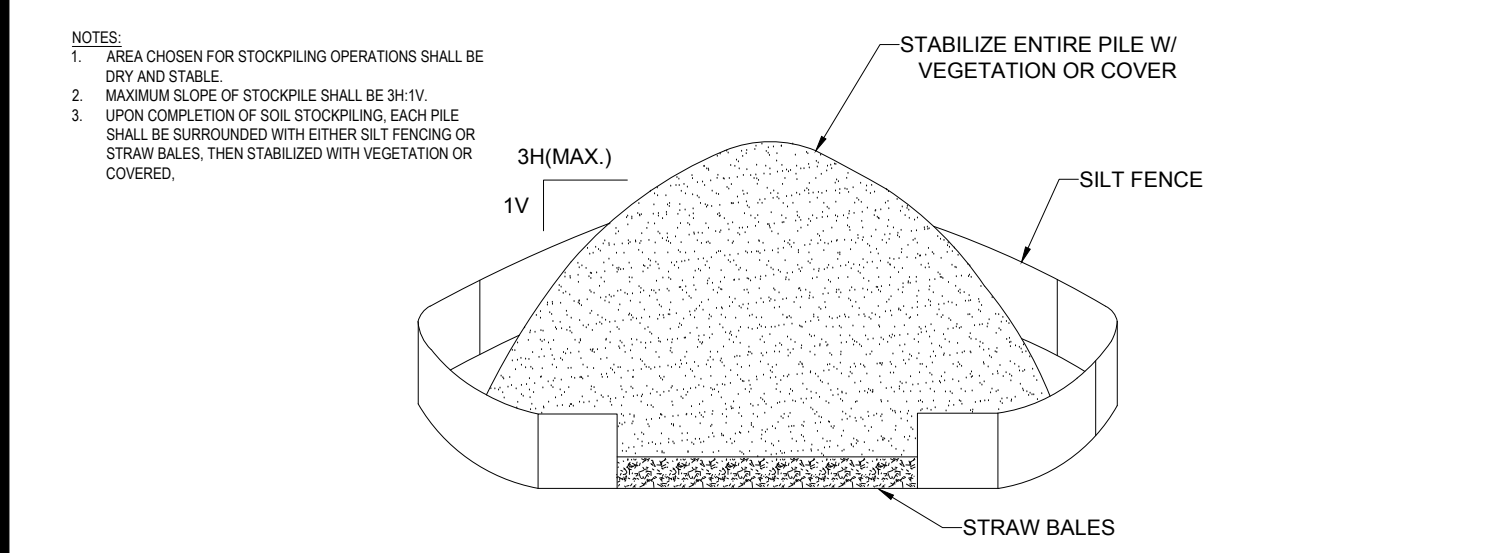
N.T.S.

DEWATERING GEOTEXTILE FILTER BAG DETAIL

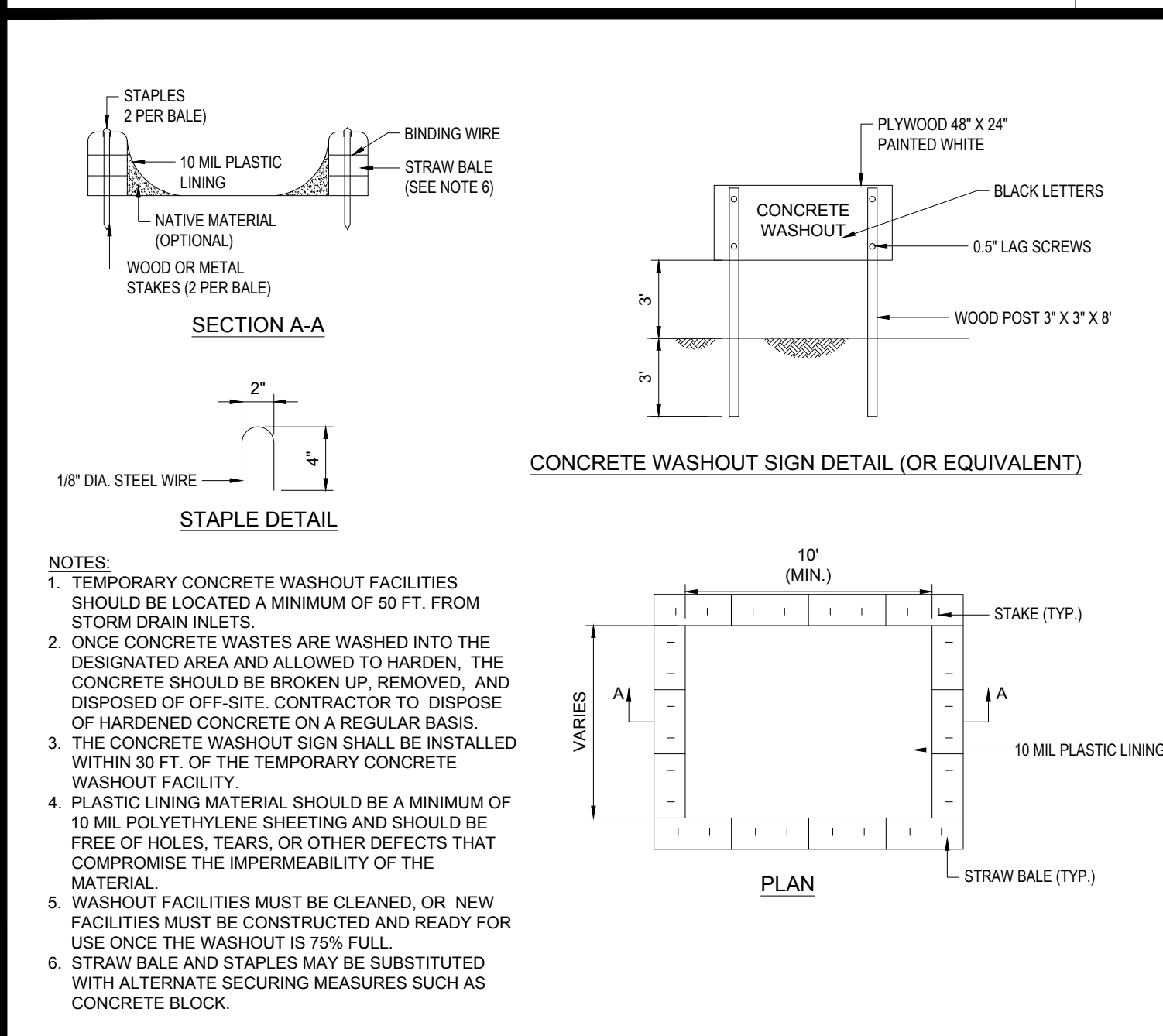


FILTER SACS (GRADED INLETS)

N.T.S.



CONCRETE WASTE MANAGEMENT AREA



CONCRETE WASTE MANAGEMENT AREA

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1	06/07/2023	PLANNING BOARD COMMENTS	OCR GD

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PROJECT No.: W201257
 DRAWN BY: EVD / CMC / OCR
 DATE: 04/13/2023
 CAD LID: W201257-EROS-2A

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 239-010-160 MAPLE STREET,

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 SOUTHBOROUGH, MA 01772
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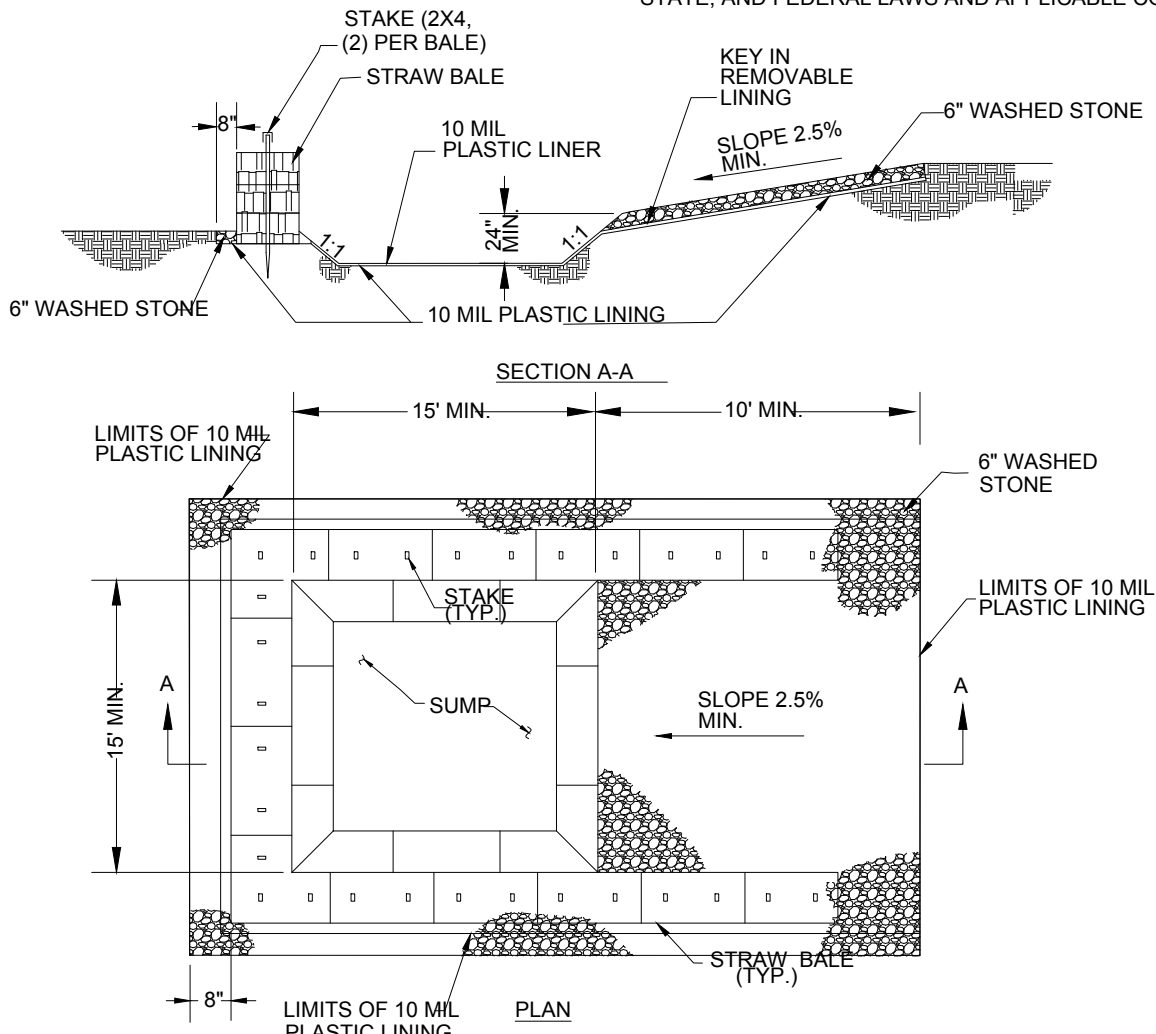
J.A. KUCICH
 PROFESSIONAL ENGINEER
 MASSACHUSETTS LICENSE NO. 41530
 NEW HAMPSHIRE LICENSE NO. 15476
 CONNECTICUT LICENSE NO. 26177
 RHODE ISLAND LICENSE NO. 2616
 MAINE LICENSE NO. 12553

SHEET TITLE:
EROSION & SEDIMENT CONTROL NOTES & DETAILS
 SHEET NUMBER:
C-608

REVISION 1 - 06/07/2023

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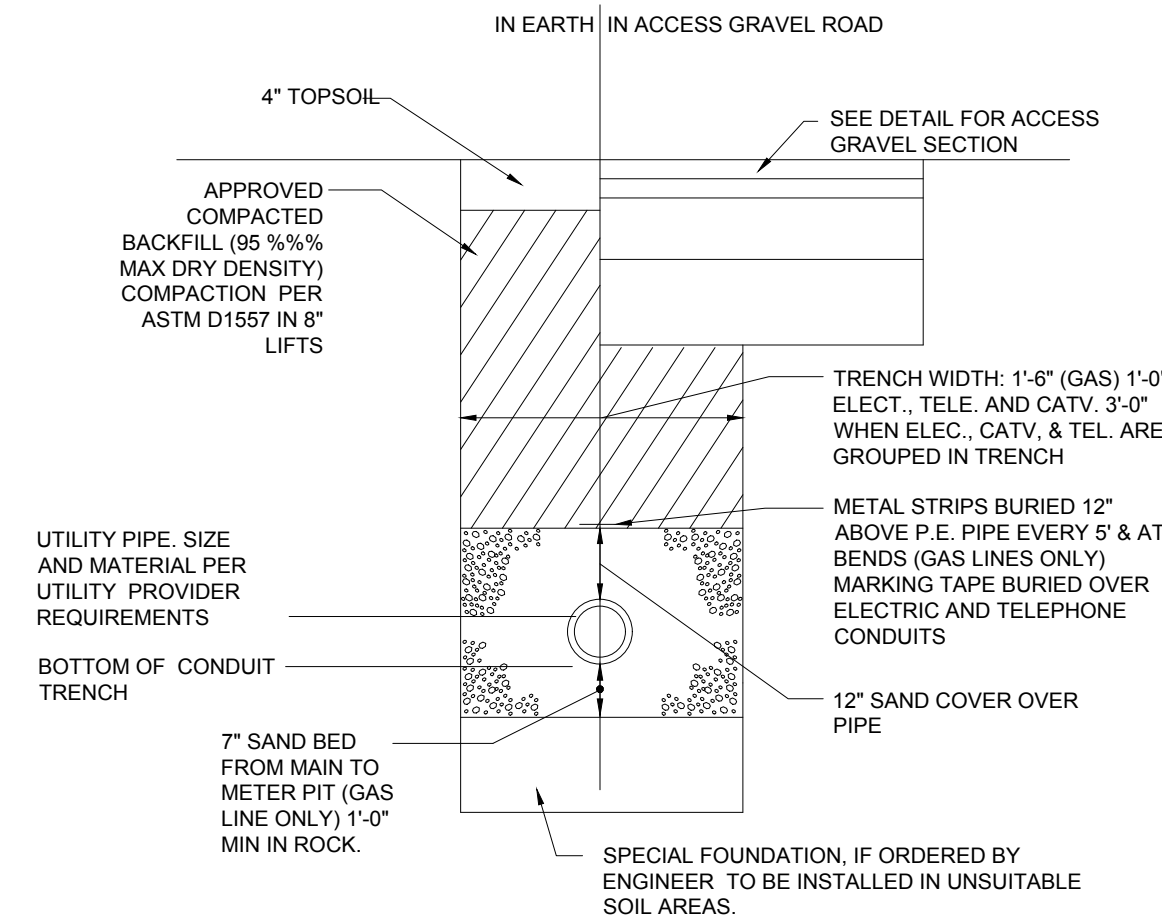
- NOTES:
- PIT IS SPECIFICALLY DESIGNATED. DIKED AND IMPERVIOUS FACILITY SHALL NOT BE FILLED BEYOND 95% CAPACITY CONTAINMENT TO PREVENT CONTACT BETWEEN CONCRETE UNLESS A NEW FACILITY IS CONSTRUCTED.
 - WASH WATER SHALL NOT BE ALLOWED TO FLOW TO SURFACE. WASHOUT AND STORMWATER SHALL BE DISPOSED OF IN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



CONCRETE WASHOUT DETAIL

N.T.S.

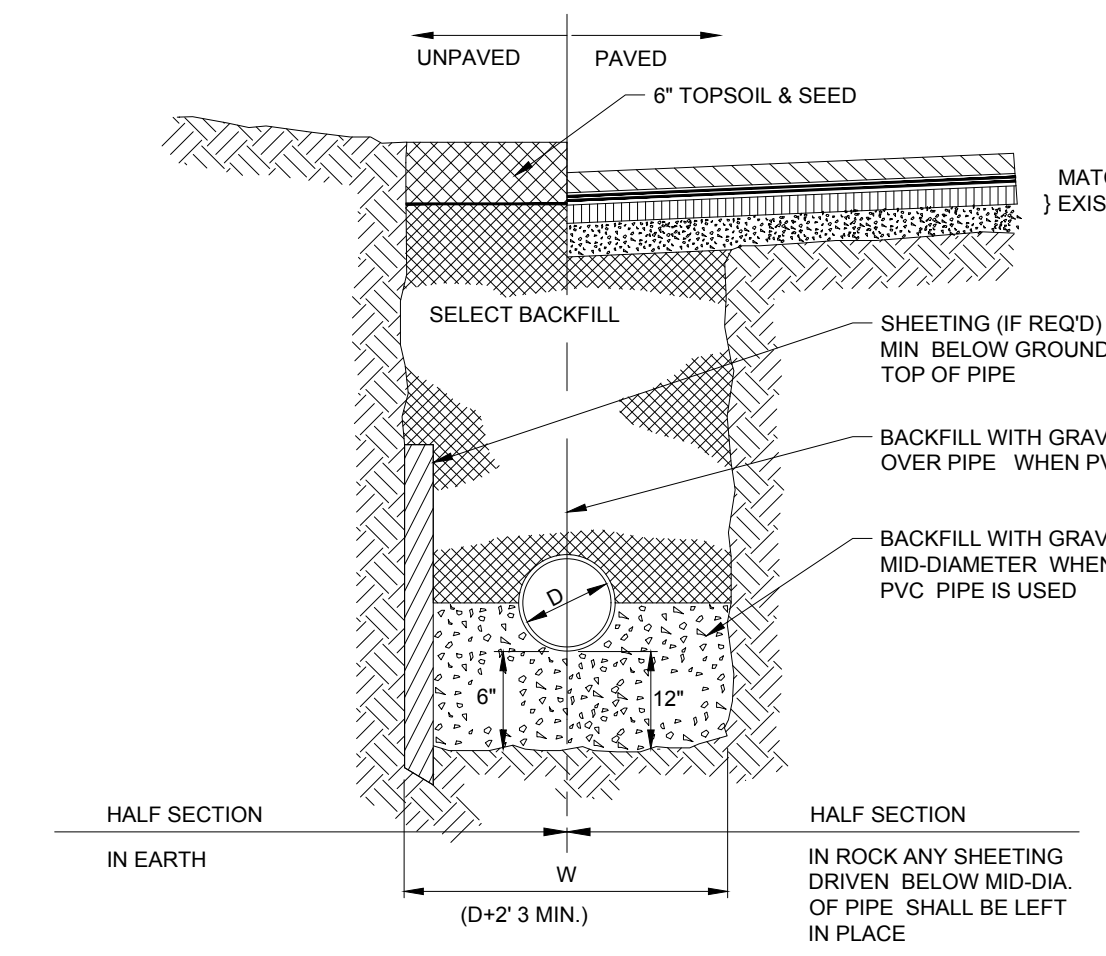
- NOTE: THE CONTRACTOR IS DIRECTED AND RESPONSIBLE TO SLOPE AND/OR SHIELD THE TRENCH EXCAVATION IN ACCORDANCE WITH ALL APPLICABLE OSHA REGULATIONS.



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

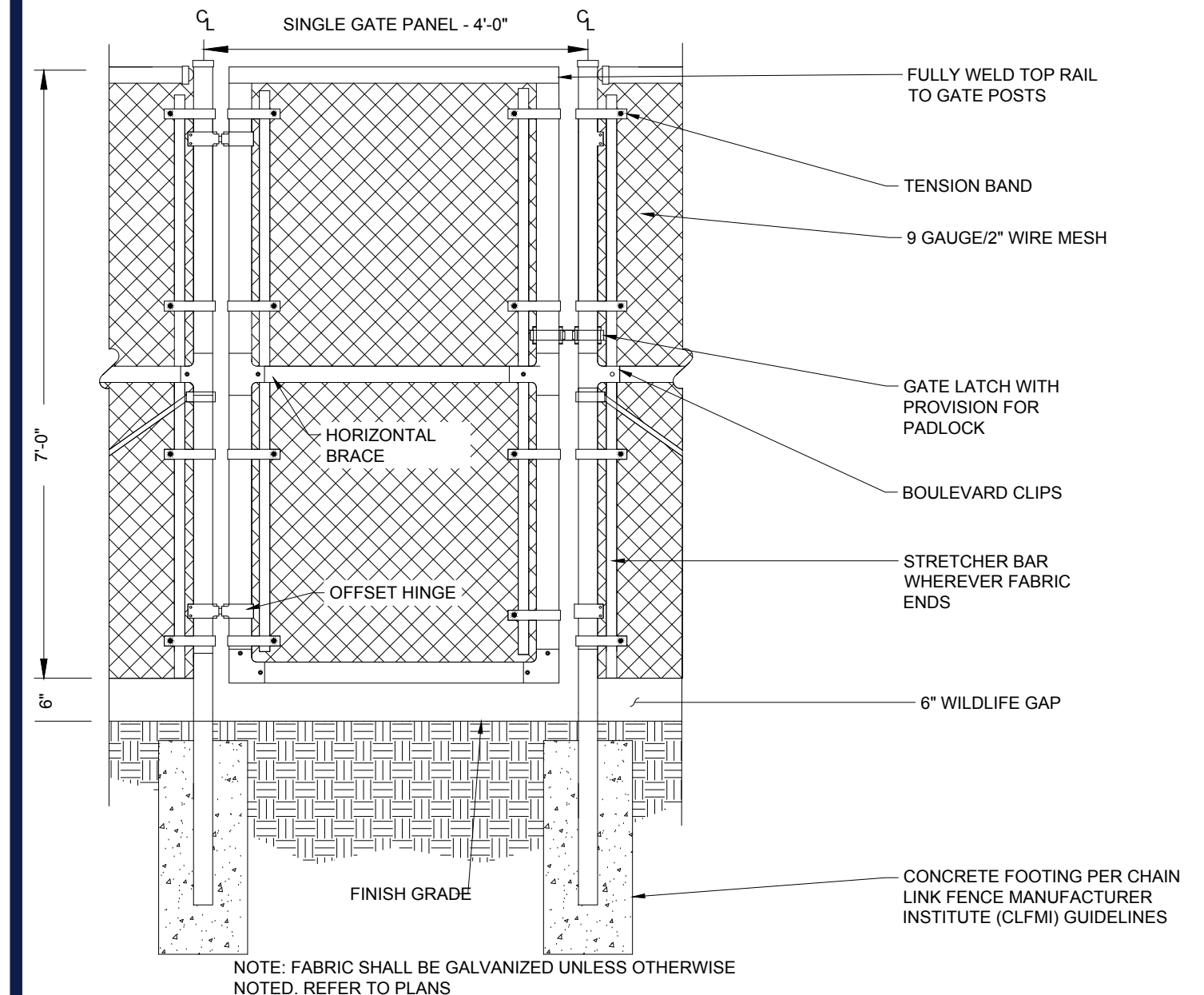
ALTERNATIVE ELECTRICAL TRENCH DETAIL

N.T.S.



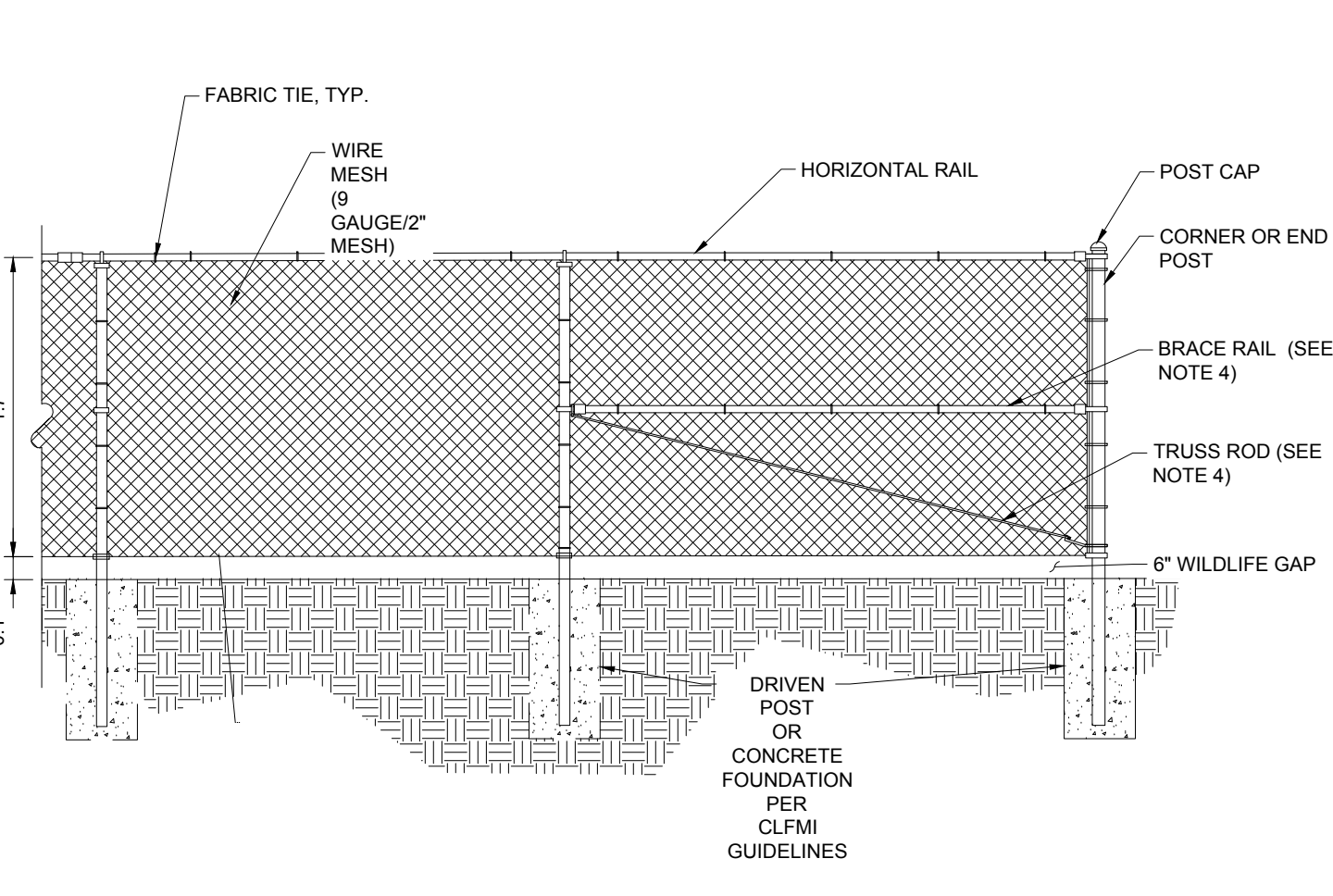
TYPICAL UTILITY TRENCH

N.T.S.



7' ACCESS GATE WITH WILDLIFE GAP

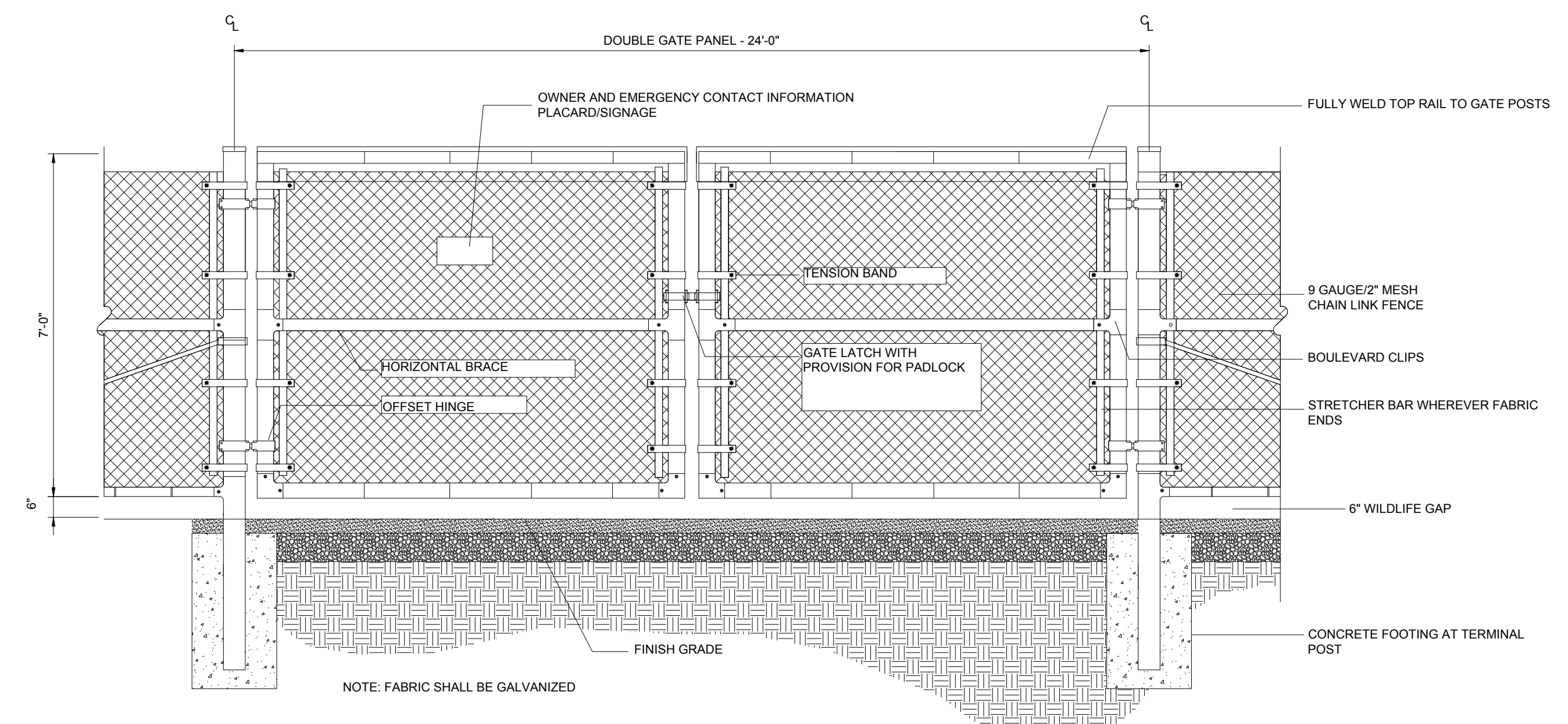
N.T.S.



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

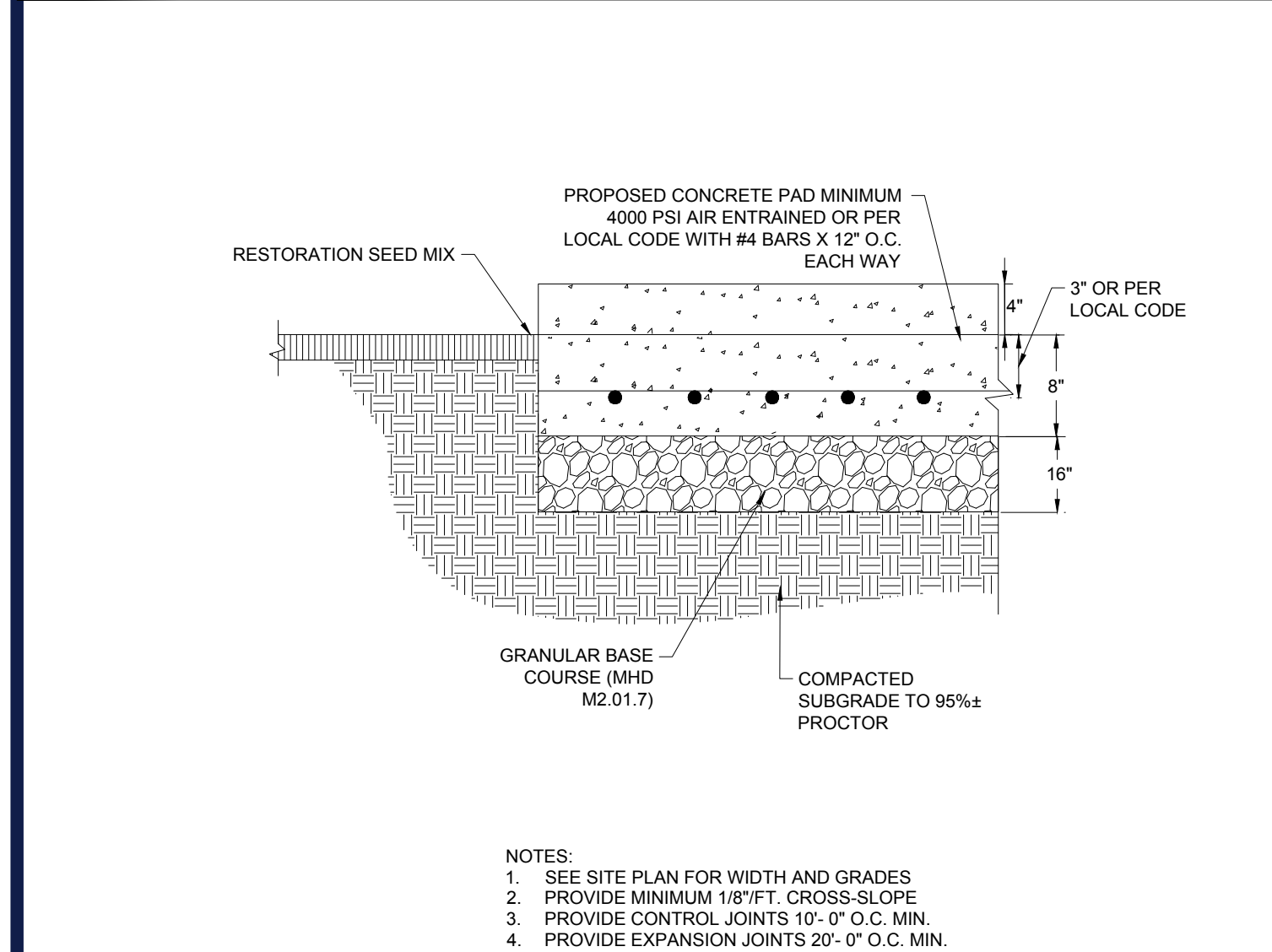
7' CHAIN LINK FENCE WITH WILDLIFE GAP

N.T.S.



24' WIDE DOUBLE SWING GATE WITH WILDLIFE GAP

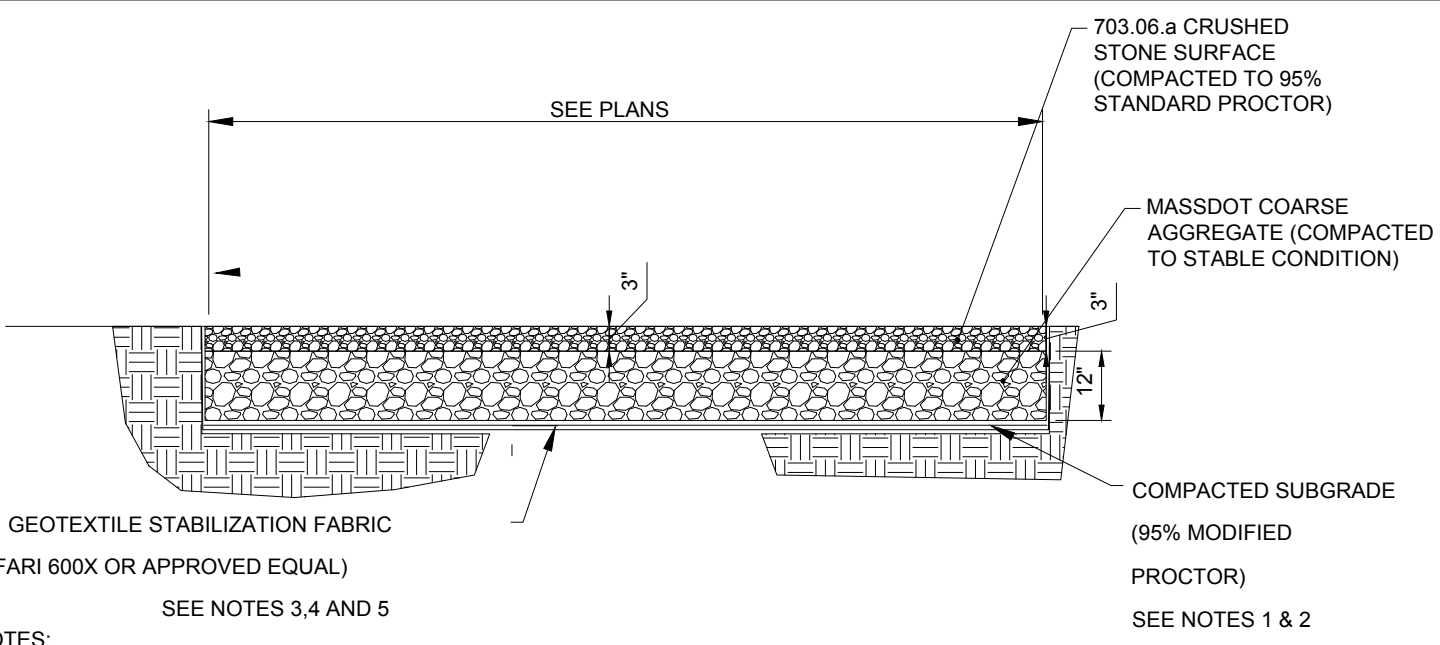
N.T.S.



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

CONCRETE PAD FOR EQUIPMENT

N.T.S.

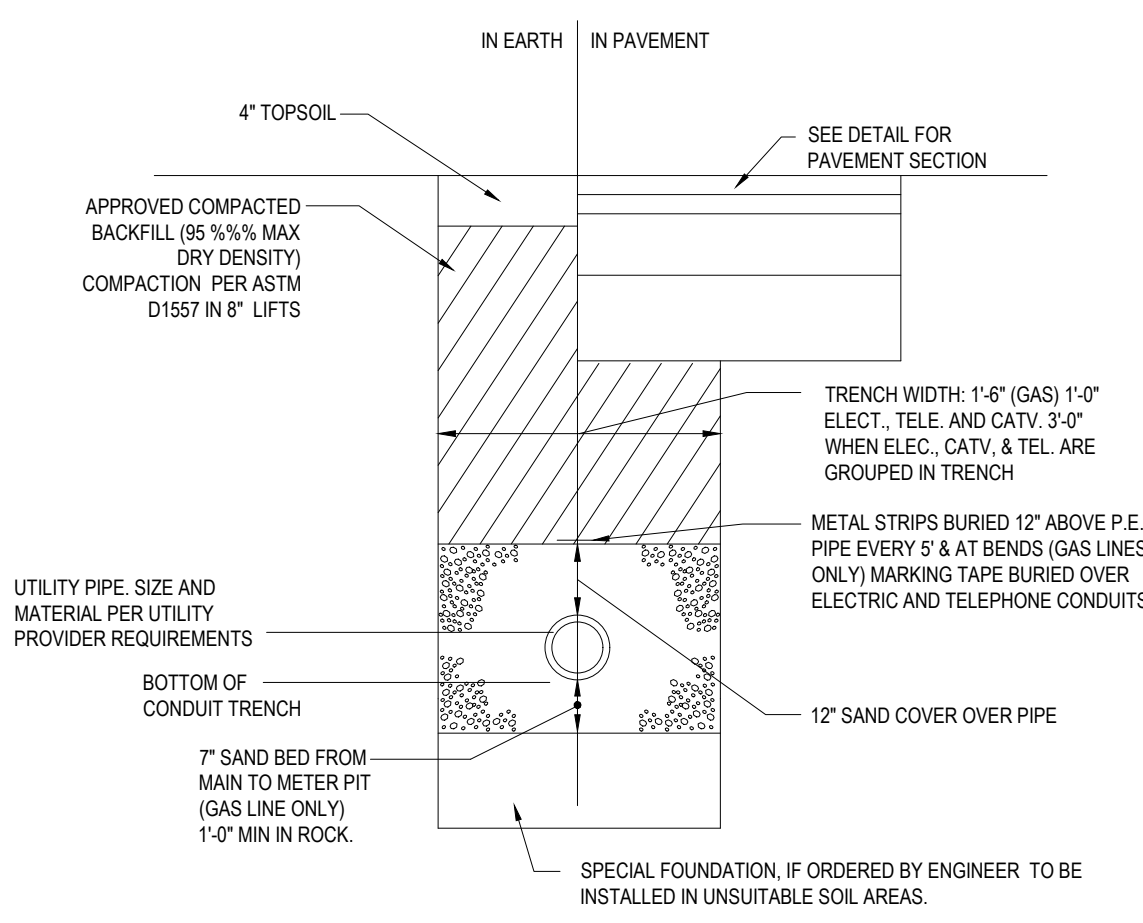


- NOTES:
- SUBCONTRACTOR SHALL EXCAVATE TO SUITABLE MATERIAL FOR SUBGRADE.
 - SUBCONTRACTOR SHALL COMPACT SUBGRADE TO PROVIDE SUITABLE SURFACE TO PLACE ROAD. (95% MODIFIED PROCTOR). 3RD PARTY COMPACTION TESTING IS REQUIRED AT GRAVEL ACCESS ROAD AS FURTHER NOTED PER ADDITIONAL NOTE 13.2 ON SHEET C-0.0. REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION CRITERIA.
 - SUBCONTRACTOR SHALL FOLLOW MANUFACTURER INSTALLATION PROCEDURES.
 - WHERE OVERLAPPING OF GEOTEXTILE FABRIC IS REQUIRED, SUBCONTRACTOR SHALL OVERLAP A MINIMUM OF 24".
 - SUBCONTRACTOR SHALL REMOVE TEMPORARY CONSTRUCTION ACCESS ROADS, AND RESTORE TO PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE CEOR AND THE GOVERNING AGENCIES.
 - 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.
 - THE PROPOSED ACCESS ROAD SHALL HAVE A MAXIMUM RUNNING SLOPE OF 10%. PLEASE REFER TO THE GRADING PLAN FOR MORE INFORMATION.

ACCESS GRAVEL ROAD

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.

PRIMARY ELECTRICAL TRENCH DETAIL

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PROJECT No.: W201257
 DRAWN BY: EVD / CMC / OCR
 CHECKED BY: GD
 DATE: 04/13/2023
 CAD ID: W201257-DET1-2A

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 239-010160 MAPLE STREET,
 TOWN OF BELLINGHAM & FRANKLIN, NORFOLK COUNTY, MASSACHUSETTS

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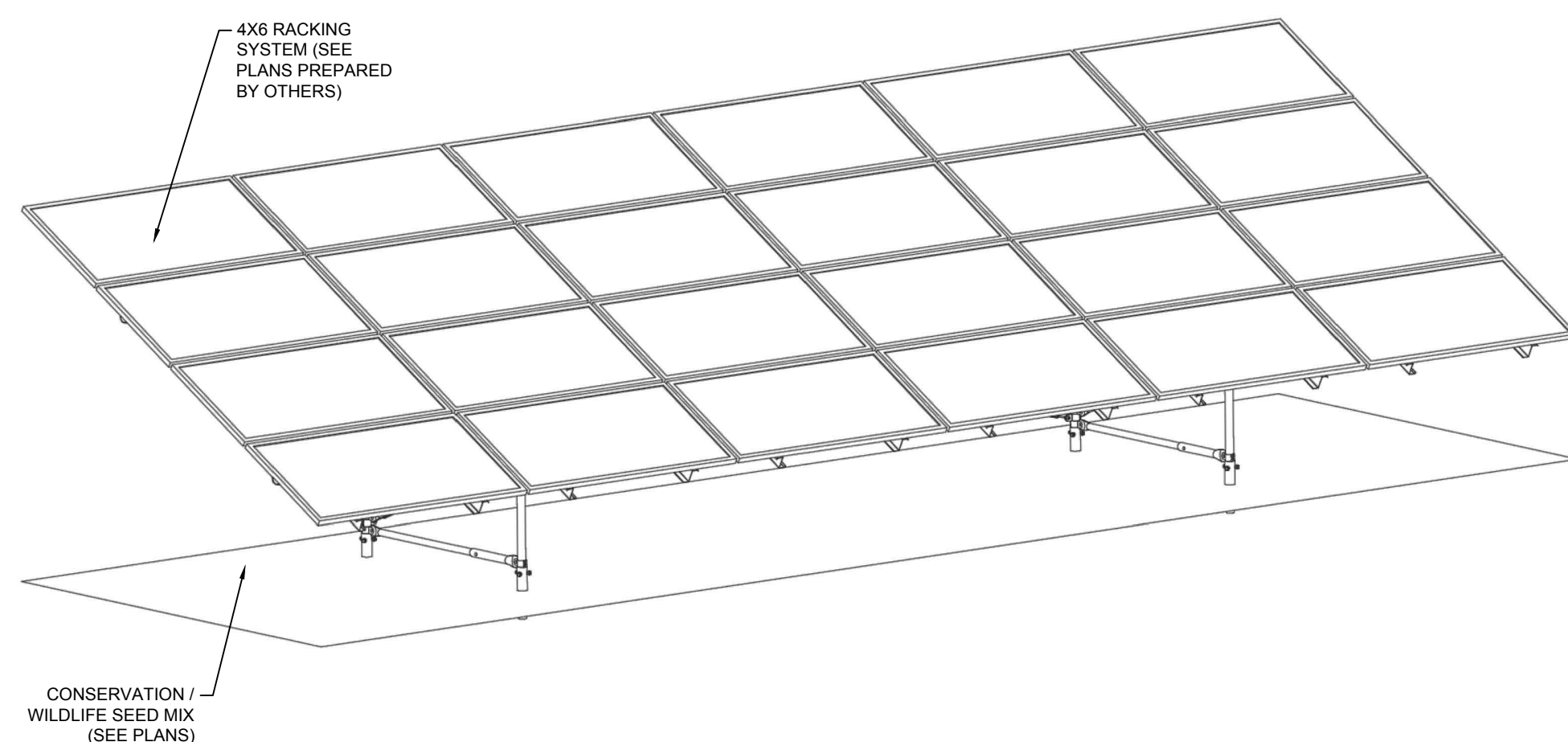
SHEET TITLE:
DETAIL SHEET

SHEET NUMBER:
C-902

ORG. DATE - 04/13/2023

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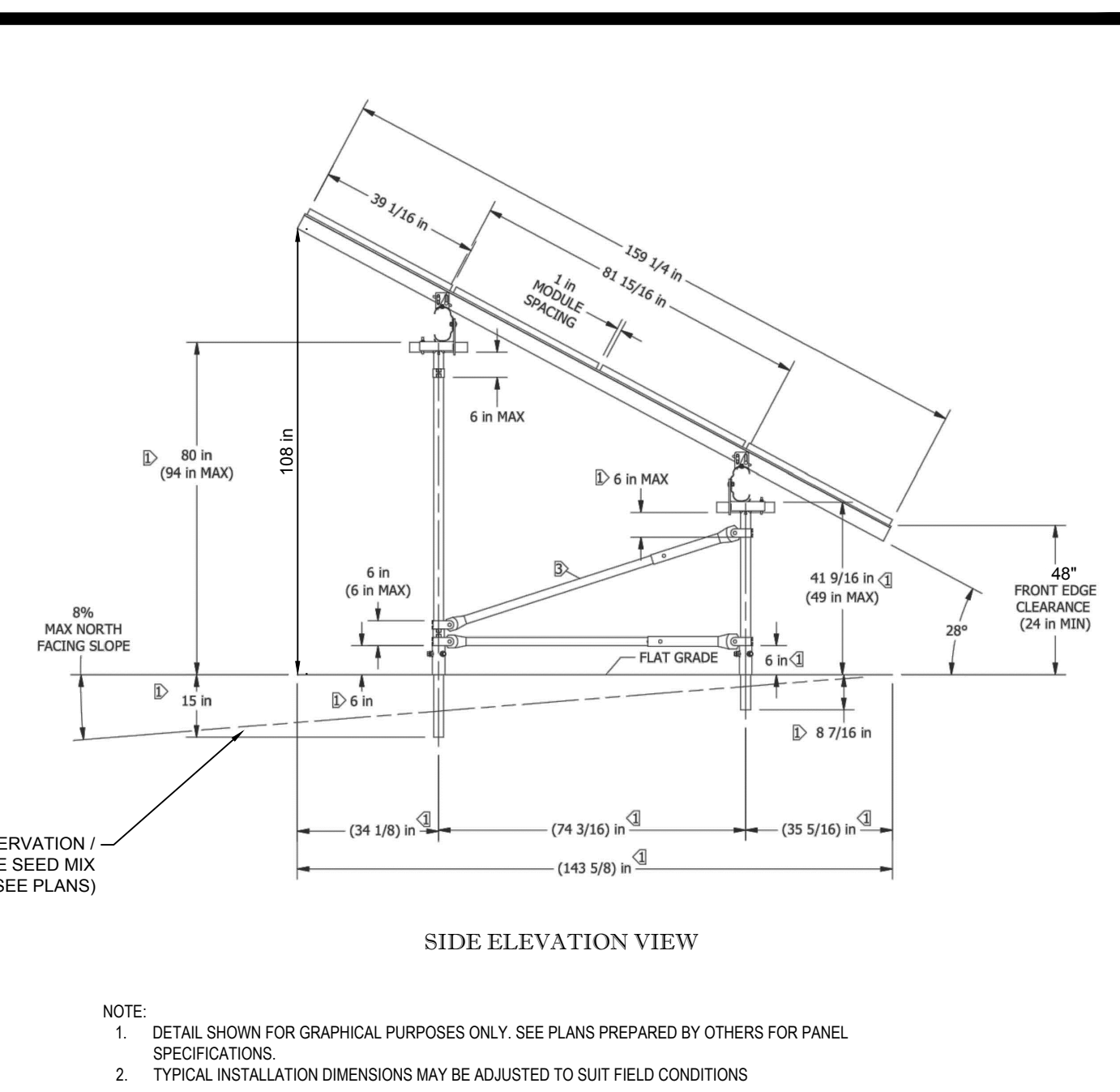
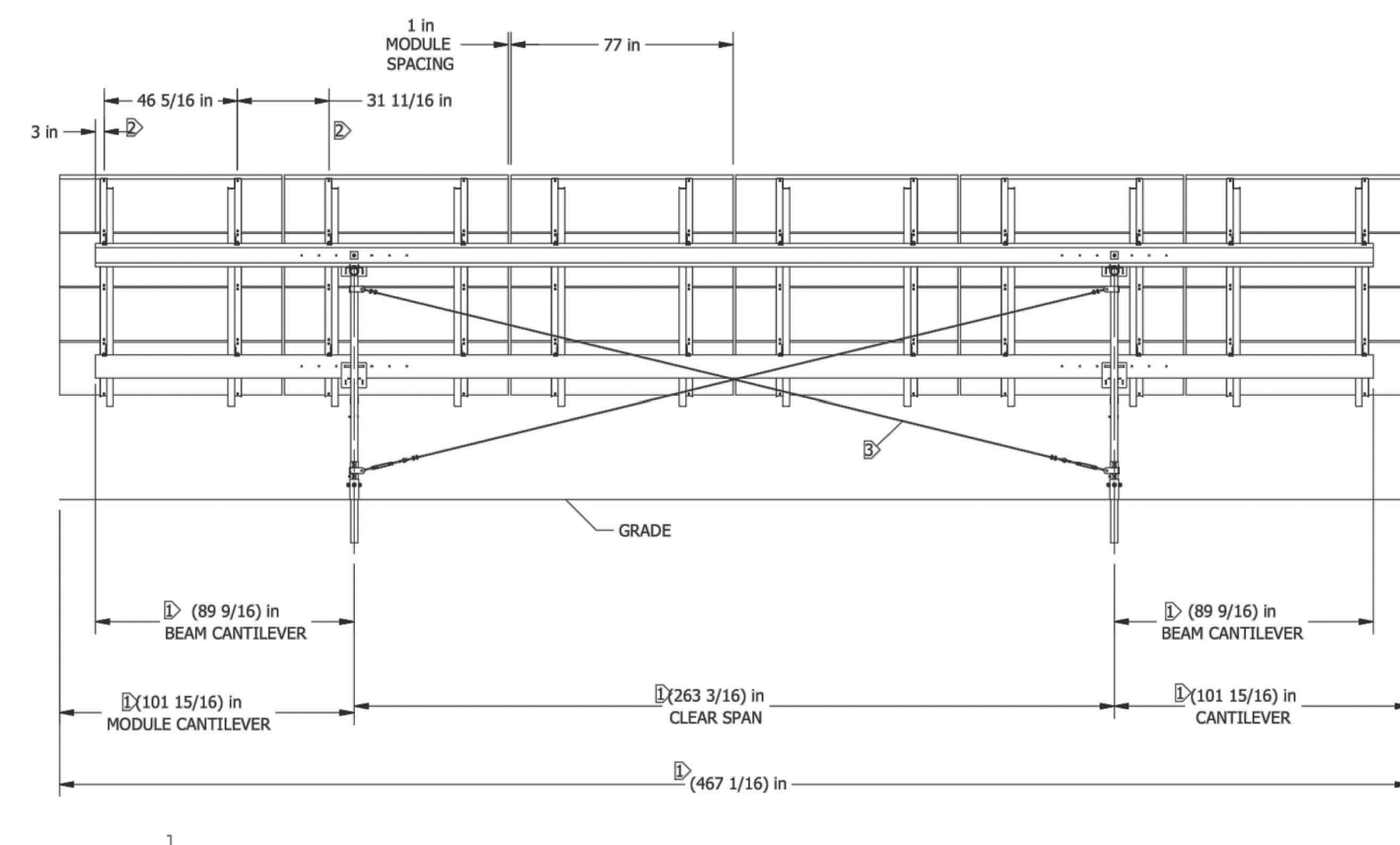
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NOTE:
 1. DETAIL SHOWN FOR GRAPHICAL PURPOSES ONLY. SEE PLANS PREPARED BY TERRASART FOR PANEL SPECIFICATIONS.
 2. TYPICAL INSTALLATION DIMENSIONS MAY BE ADJUSTED TO SUIT FIELD CONDITIONS

RACKING SYSTEM DETAIL

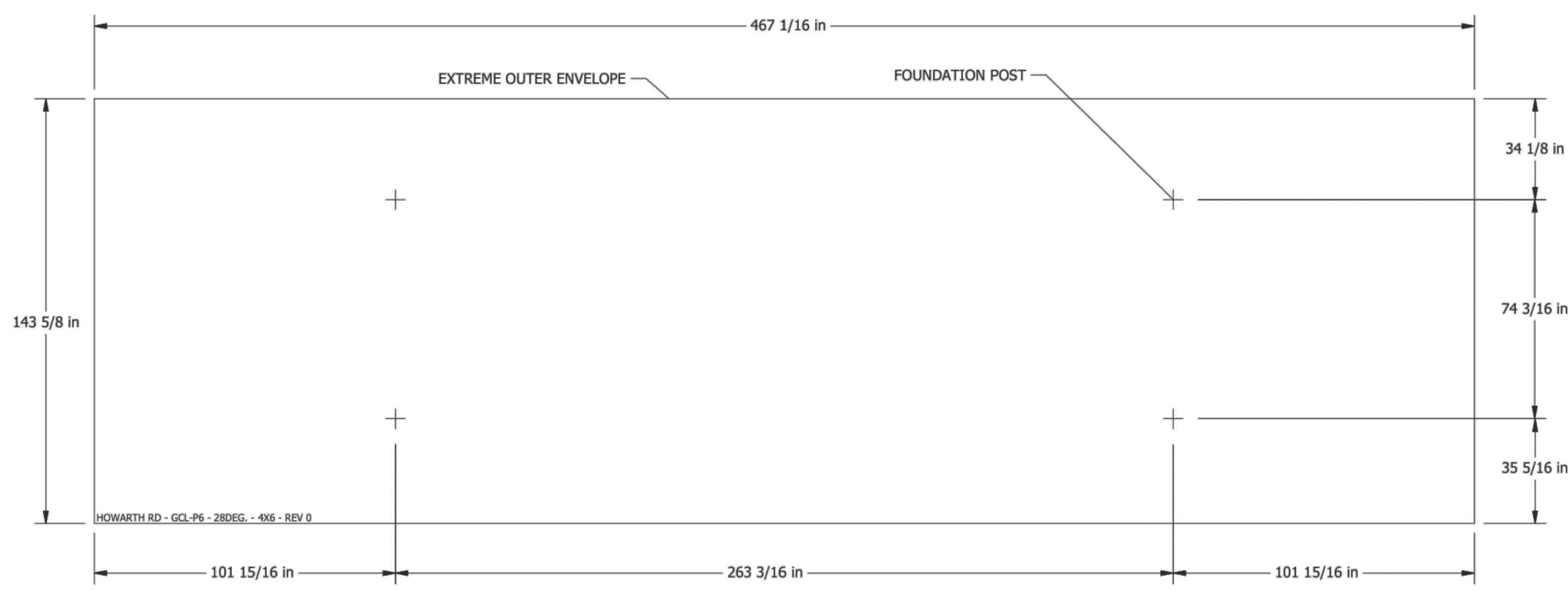
N.T.S.



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

TYPICAL PANEL CROSS-SECTION DETAIL

N.T.S.



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

PANEL LAYOUT DETAIL

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 PERMITTING SERVICES
 TRANSPORTATION SERVICES

REVISIONS

REV	DATE	COMMENT	DRAWN BY	CHECKED BY

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PROJECT No.: W201257
 DRAWN BY: EVD / CMC / OCR
 DATE: 04/13/2023
 CAD I.D.: W201257-DET-2A

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 239-010160 MAPLE STREET,
 TOWN OF BELLINGHAM & FRANKLIN, NORFOLK COUNTY, MASSACHUSETTS

BOHLER

352 TURNPIKE ROAD
 SOUTHBOROUGH, MA 01772
 Phone: (508) 480-9900
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J.A. KUCICH

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 MAINE LICENSE No. 12553

SHEET TITLE:
DETAIL SHEET

SHEET NUMBER:
C-903

ORG. DATE - 04/13/2023

REVISIONS

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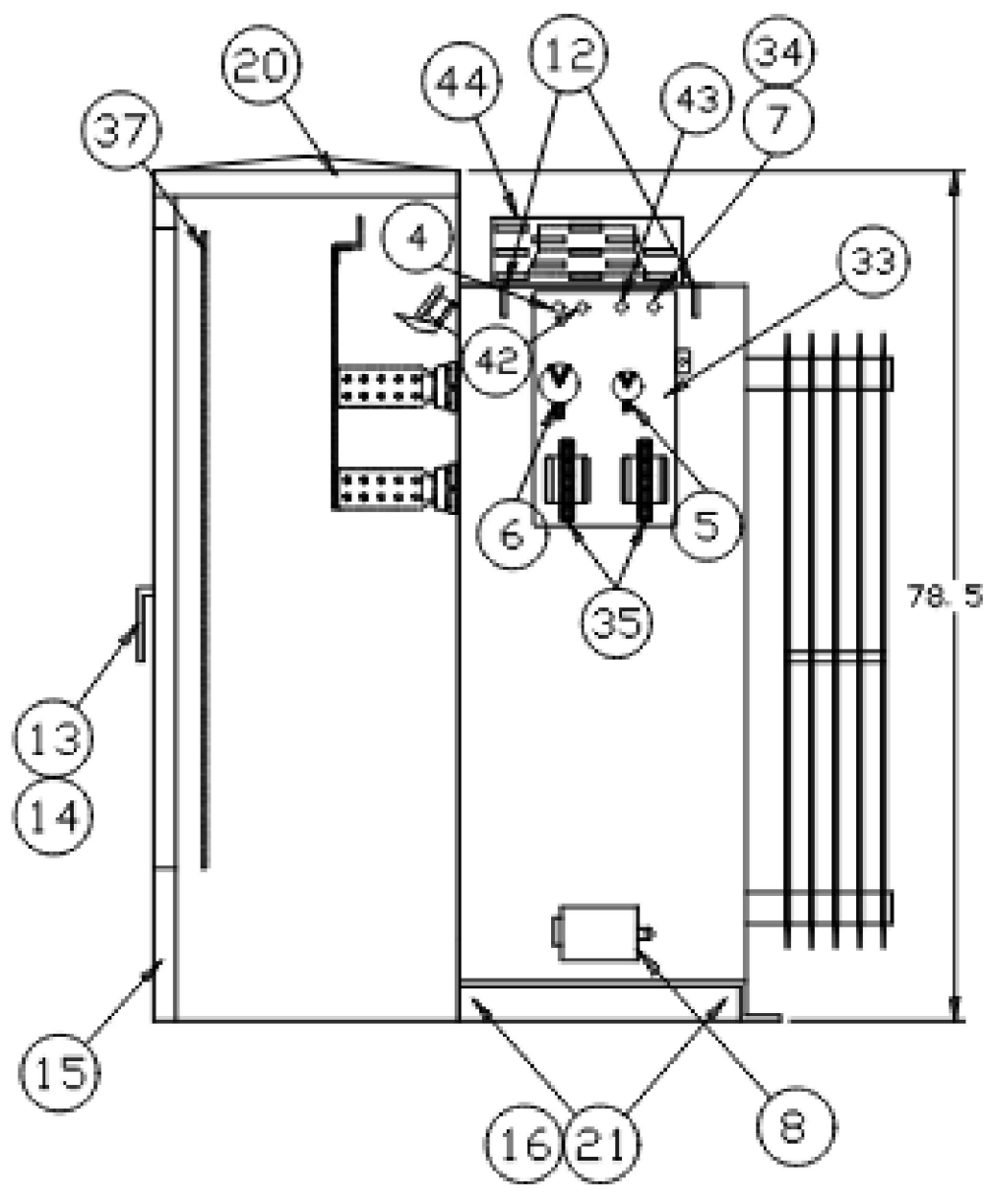
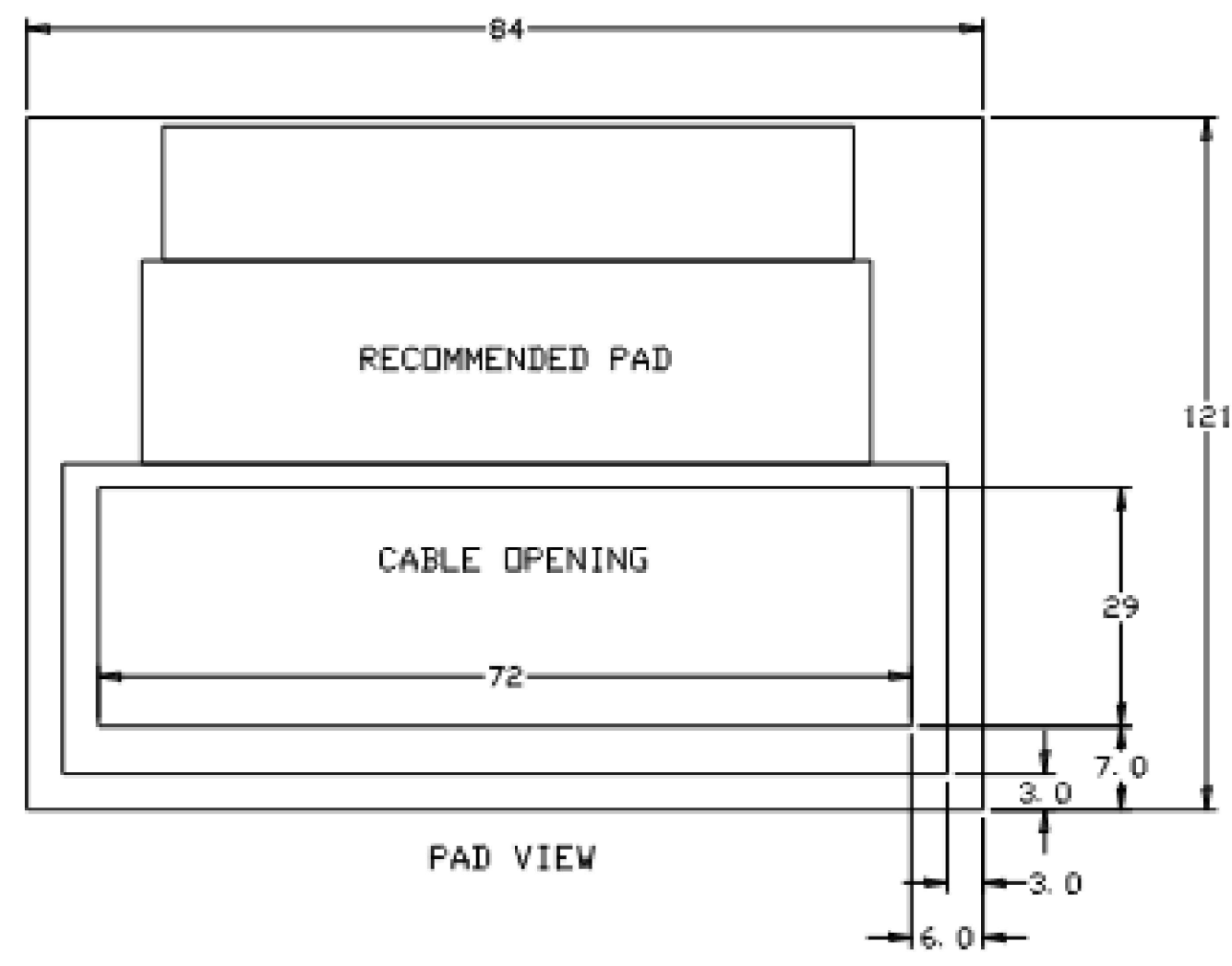
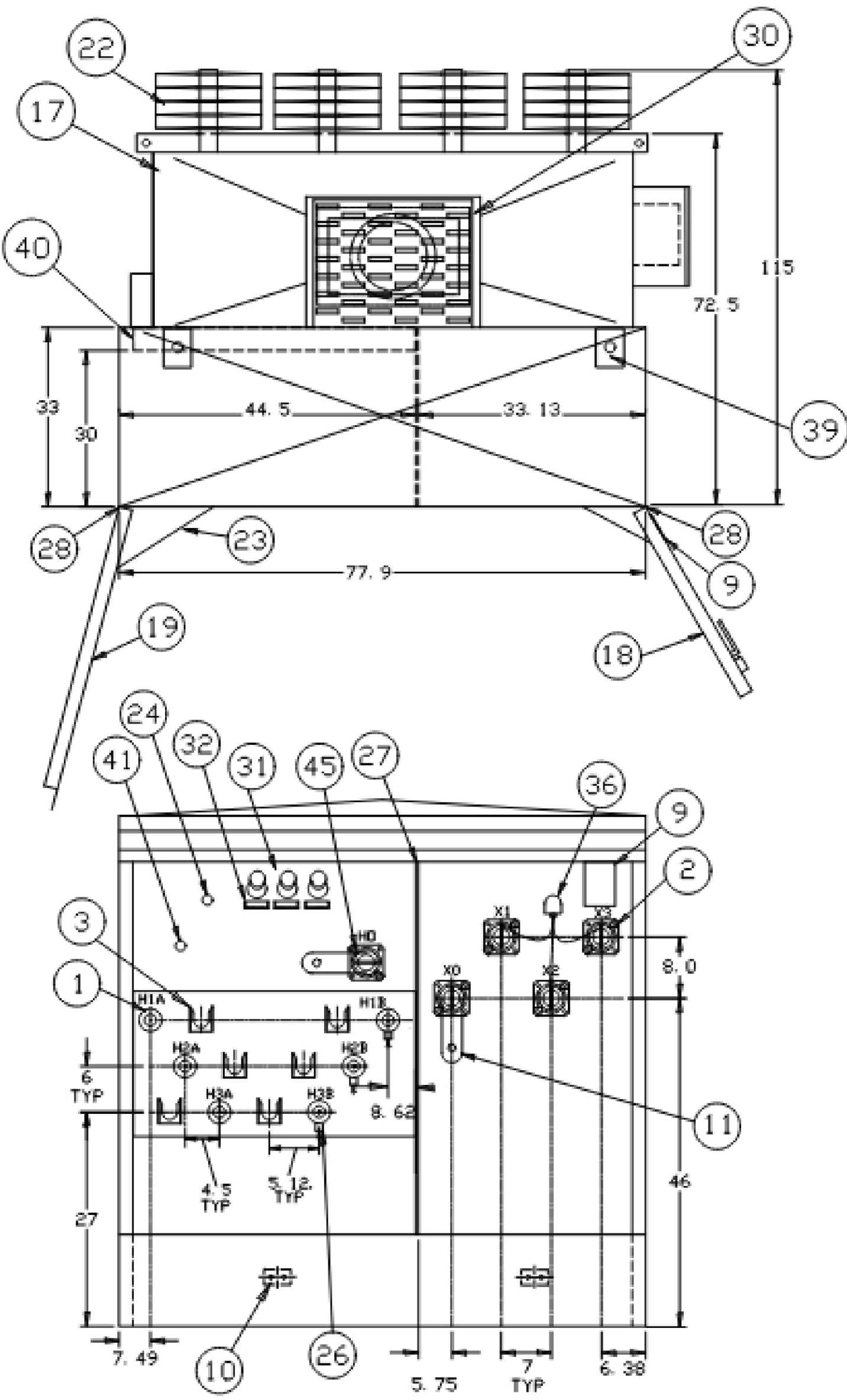
SHEET TITLE:

DETAIL SHEET

SHEET NUMBER:

C-904

ORG. DATE - 04/13/2023



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%
- 25 200KV BIL 150 AMP SILVER PLATED (CAPT 099-04.07.31SRFM-AH)
- 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" X 24" 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 'HD' 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.

M-Force™ three-phase switch



DESCRIPTION

The M-Force™ three-phase switch is a high-voltage, high-current switchgear designed for applications requiring a high level of safety and reliability. It features a fully enclosed, gas-insulated design with a proven track design and a robust frame. The switch is available in 17.5 kV, 24 kV, and 38 kV ratings and is designed to handle up to 1000 A continuous current. It is suitable for use in both indoor and outdoor environments. The switch is designed to meet the requirements of IEEE 38 and IEEE 15. It is a fully enclosed, gas-insulated switchgear (GIS) with a proven track design and a robust frame. The switch is available in 17.5 kV, 24 kV, and 38 kV ratings and is designed to handle up to 1000 A continuous current. It is suitable for use in both indoor and outdoor environments. The switch is designed to meet the requirements of IEEE 38 and IEEE 15.



Listing Data (CONTINUED)

Basic Listing:
The following listing is for the switchgear with a 17.5 kV rating. For other ratings, refer to the listing data for the appropriate rating. The switchgear is listed for use in both indoor and outdoor environments. The switchgear is designed to handle up to 1000 A continuous current. It is suitable for use in both indoor and outdoor environments. The switchgear is designed to meet the requirements of IEEE 38 and IEEE 15.

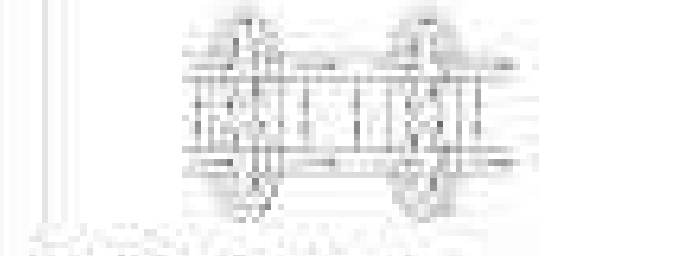


Figure 14: Outdoor front view of the switchgear.

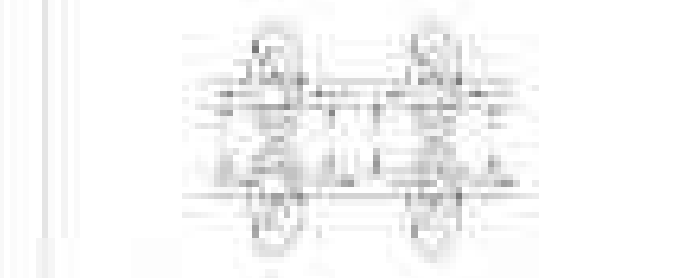


Figure 15: Outdoor side view of the switchgear.



Figure 16: Outdoor rear view of the switchgear.

Design Features

Basic Listing:
The following listing is for the switchgear with a 17.5 kV rating. For other ratings, refer to the listing data for the appropriate rating. The switchgear is listed for use in both indoor and outdoor environments. The switchgear is designed to handle up to 1000 A continuous current. It is suitable for use in both indoor and outdoor environments. The switchgear is designed to meet the requirements of IEEE 38 and IEEE 15.

Standard Listing:
The following listing is for the switchgear with a 17.5 kV rating. For other ratings, refer to the listing data for the appropriate rating. The switchgear is listed for use in both indoor and outdoor environments. The switchgear is designed to handle up to 1000 A continuous current. It is suitable for use in both indoor and outdoor environments. The switchgear is designed to meet the requirements of IEEE 38 and IEEE 15.

Optional Listing:
The following listing is for the switchgear with a 17.5 kV rating. For other ratings, refer to the listing data for the appropriate rating. The switchgear is listed for use in both indoor and outdoor environments. The switchgear is designed to handle up to 1000 A continuous current. It is suitable for use in both indoor and outdoor environments. The switchgear is designed to meet the requirements of IEEE 38 and IEEE 15.

Listing Data (CONTINUED)

Basic Listing:
The following listing is for the switchgear with a 17.5 kV rating. For other ratings, refer to the listing data for the appropriate rating. The switchgear is listed for use in both indoor and outdoor environments. The switchgear is designed to handle up to 1000 A continuous current. It is suitable for use in both indoor and outdoor environments. The switchgear is designed to meet the requirements of IEEE 38 and IEEE 15.



Figure 17: Outdoor front view of the switchgear.

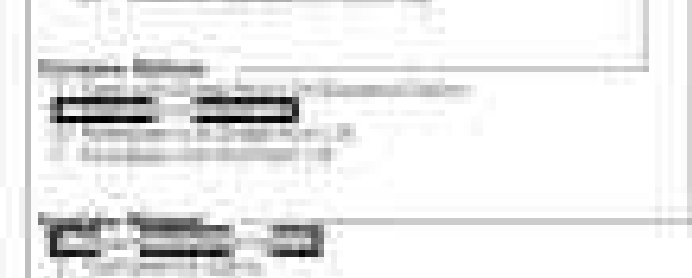


Figure 18: Outdoor side view of the switchgear.



Figure 19: Outdoor rear view of the switchgear.

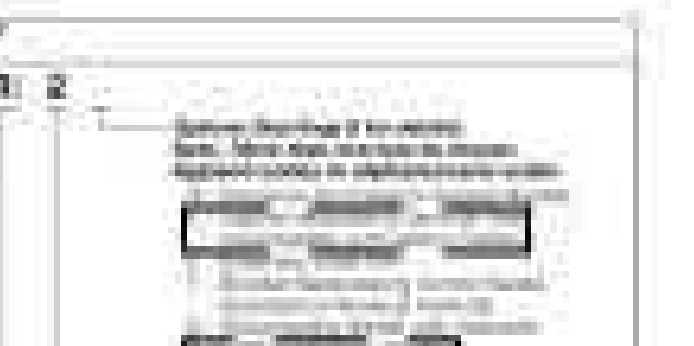


Figure 20: Outdoor front view of the switchgear.



Figure 21: Outdoor side view of the switchgear.



Figure 22: Outdoor rear view of the switchgear.



Viper-5T

Solid-Dielectric, Independent Pole Option Recloser
Providing electronic assessment protection for single or three phase operation on systems rated through 39kV, 800A continuous current, 1.5kA or 10kA interrupting current.



- Interrupting ratings up to 10kA through 39kV
- Over-volt, inhibitor and fault-free protection design
- Improved safety with mechanical lock and high redundancy in key levels
- Smart control solutions
- Size of installation and design design
- Reliable performance
- Maintenance free recloser
- High accuracy accuracy voltage sensor
- 500V fully internal voltage sensor
- Modularity with 50, 100, 200, 400, 800, 1000, 1500, 2000, 3000, 4000, 5000, 6000, 8000, 10000, 15000, 20000, 30000, 40000, 50000, 60000, 80000, 100000, 150000, 200000, 300000, 400000, 500000, 600000, 800000, 1000000, 1500000, 2000000, 3000000, 4000000, 5000000, 6000000, 8000000, 10000000, 15000000, 20000000, 30000000, 40000000, 50000000, 60000000, 80000000, 100000000, 150000000, 200000000, 300000000, 400000000, 500000000, 600000000, 800000000, 1000000000, 1500000000, 2000000000, 3000000000, 4000000000, 5000000000, 6000000000, 8000000000, 10000000000, 15000000000, 20000000000, 30000000000, 40000000000, 50000000000, 60000000000, 80000000000, 100000000000, 150000000000, 200000000000, 300000000000, 400000000000, 500000000000, 600000000000, 800000000000, 1000000000000, 1500000000000, 2000000000000, 3000000000000, 4000000000000, 5000000000000, 6000000000000, 8000000000000, 10000000000000, 15000000000000, 20000000000000, 30000000000000, 40000000000000, 50000000000000, 60000000000000, 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