

# 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.



#### REVISIONS

REV	DATE	COMMENT	CHECKED BY	DRAWN 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
5	9/12/2023	PER CONS COM CONDITIONS	JDL	GD



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PROJECT No.: W201257  
DRAWN BY: EVD / CMC / OCR  
CHECKED BY: GD  
DATE: 04/13/2023  
CAD ID: W201257-SPPD-58

PROJECT:

**PROPOSED SITE PLAN DOCUMENTS**

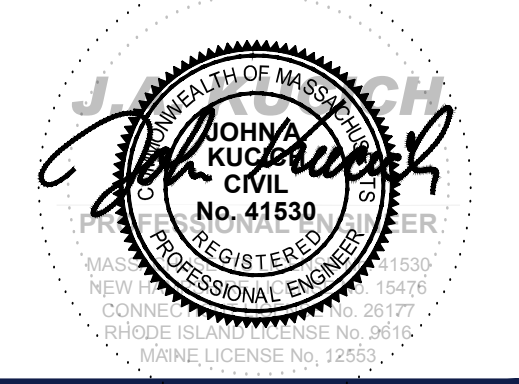
FOR  
**NEXTGRID MESCALBEAN LLC**  
PROPOSED SOLAR FARM

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160 MAPLE STREET,  
TOWN OF BELLINGHAM & FRANKLIN,  
NORFOLK COUNTY, MASSACHUSETTS

**BOHLER**

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

[www.BohlerEngineering.com](http://www.BohlerEngineering.com)



SHEET TITLE:

**COVER SHEET**

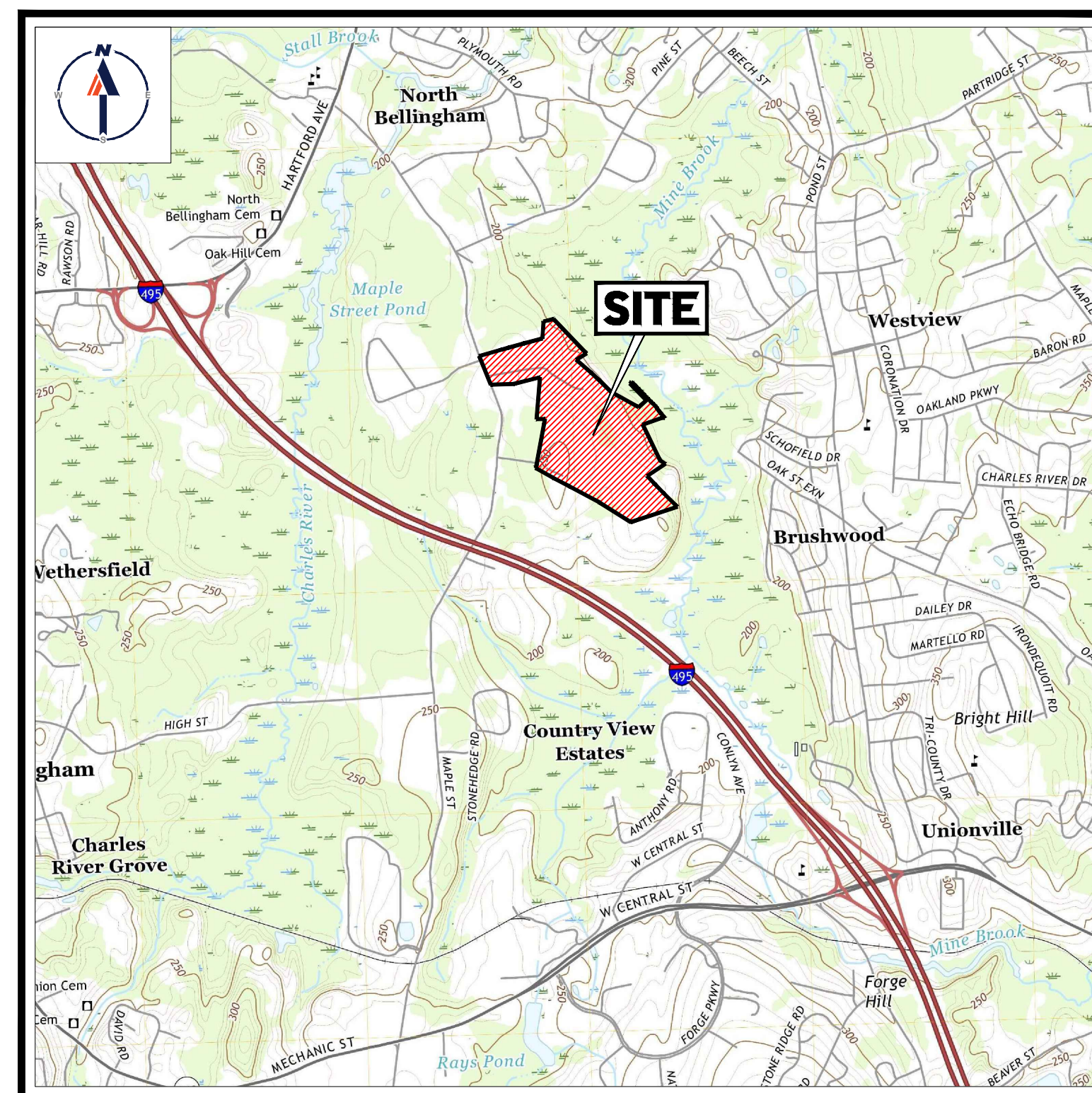
SHEET NUMBER:

**C-101**

REVISION 5 - 9/12/2023

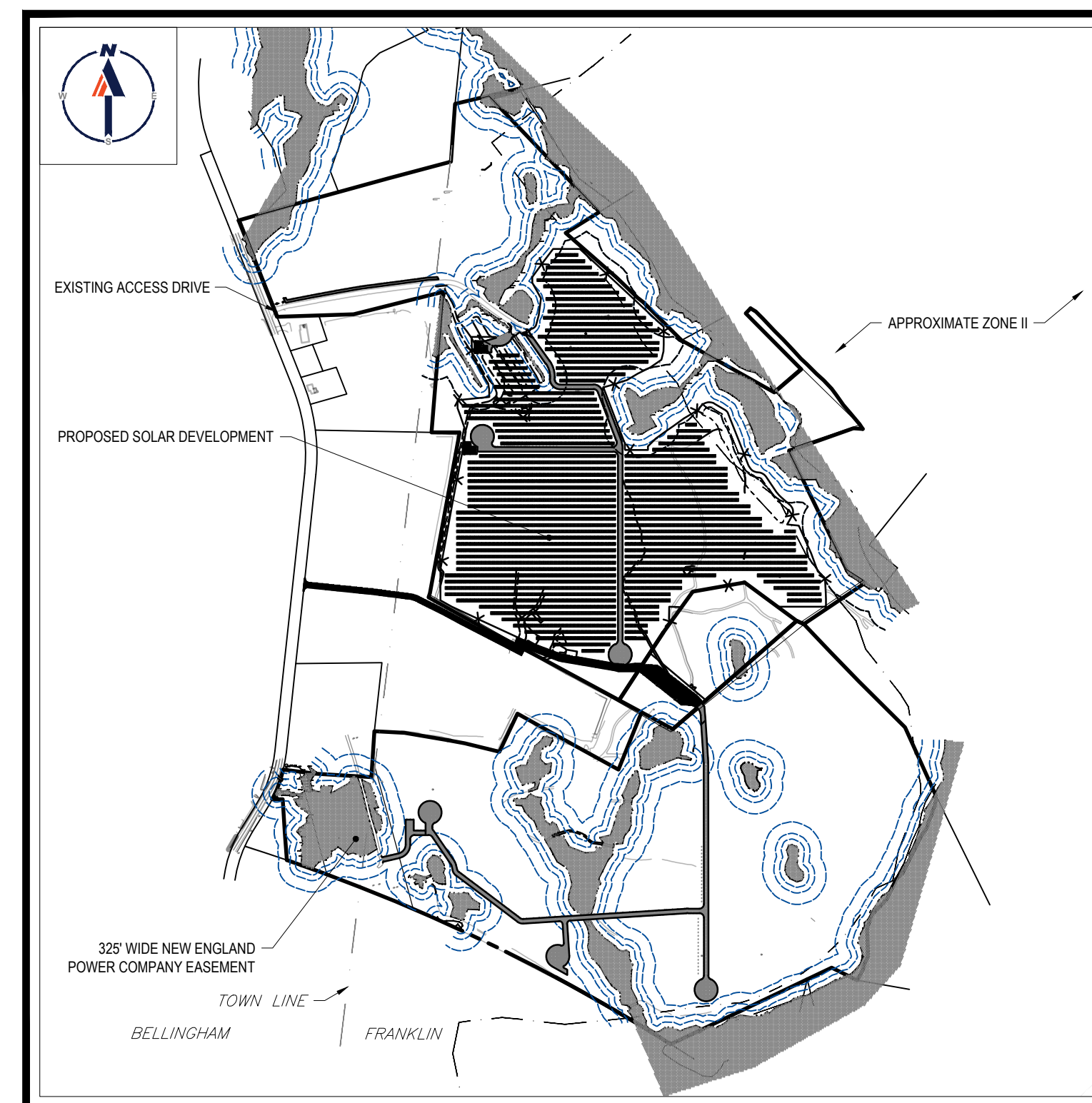
#### DRAWING SHEET INDEX

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
FIRE TRUCK CIRCULATION PLAN	1 OF 1
EXISTING CONDITIONS PLAN (BY FELDMAN GEOSPATIAL)	8 SHEETS



**USGS MAP**

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



**SITE MAP**

SCALE: 1" = 800'  
SOURCE: GOOGLE AERIAL

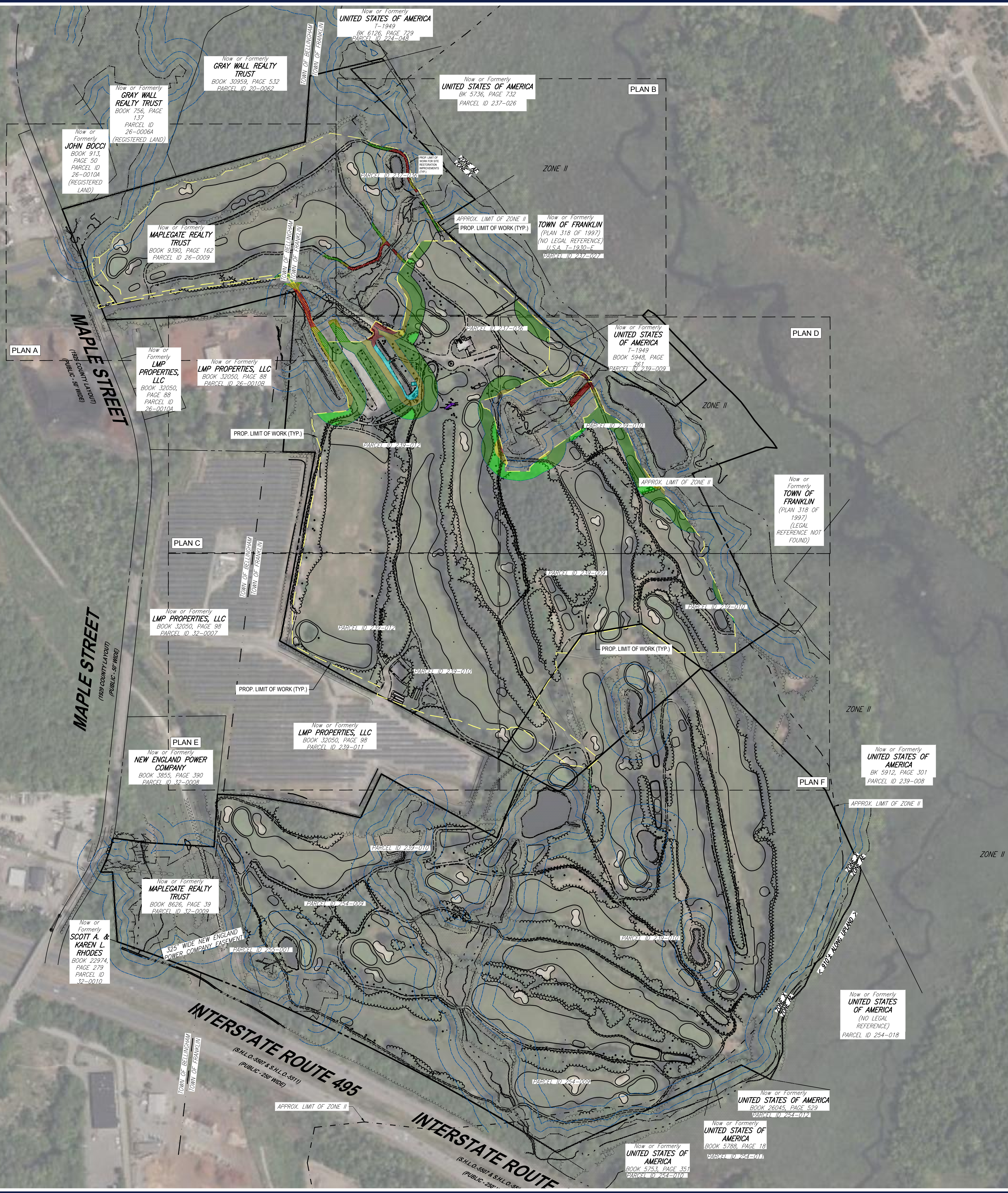
PREPARED BY

**BOHLER**









**TOTAL BUFFER DISTURBANCE CHART**

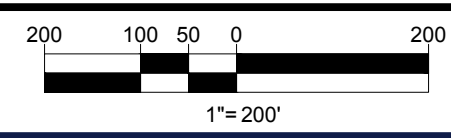
AREA	HATCH	DESCRIPTION
274± sf	[Red Hatch]	25' Proposed Buffer Disturbance
7,321± sf	[Dark Red Hatch]	25' Existing Buffer Disturbance
4,061± sf	[Yellow Hatch]	50' Proposed Buffer Disturbance
56,130± sf	[Olive Green Hatch]	50' Existing Buffer Disturbance
35,869± sf	[Light Green Hatch]	100' Proposed Buffer Disturbance
257,327± sf	[Dark Green Hatch]	100' Existing Buffer Disturbance
4,118± sf	[Cyan Hatch]	25' Existing Buffer Disturbance (To Be Removed)
307± sf	[Purple Hatch]	Existing Wetland (To Be Filled)
8,020± sf	[Red X Hatch]	25' Existing Buffer Disturbance (To Be Improved)
4,484± sf	[Yellow X Hatch]	50' Proposed Buffer Disturbance (To Be Improved)
6,458± sf	[Green X Hatch]	50' Existing Buffer Disturbance (To Be Improved)
320,778± sf	[NA]	Total Existing Buffer Disturbance
40,024± sf	[NA]	Total Proposed Buffer Disturbance

**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.**

**REFER TO GENERAL NOTES SHEET FOR DEMOLITION NOTES**

**THIS PLAN TO BE UTILIZED FOR DEMOLITION/REMOVAL PURPOSES ONLY**

**TBR. = TO BE REMOVED**



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 PROPOSED SOLAR FARM

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SHEET TITLE:

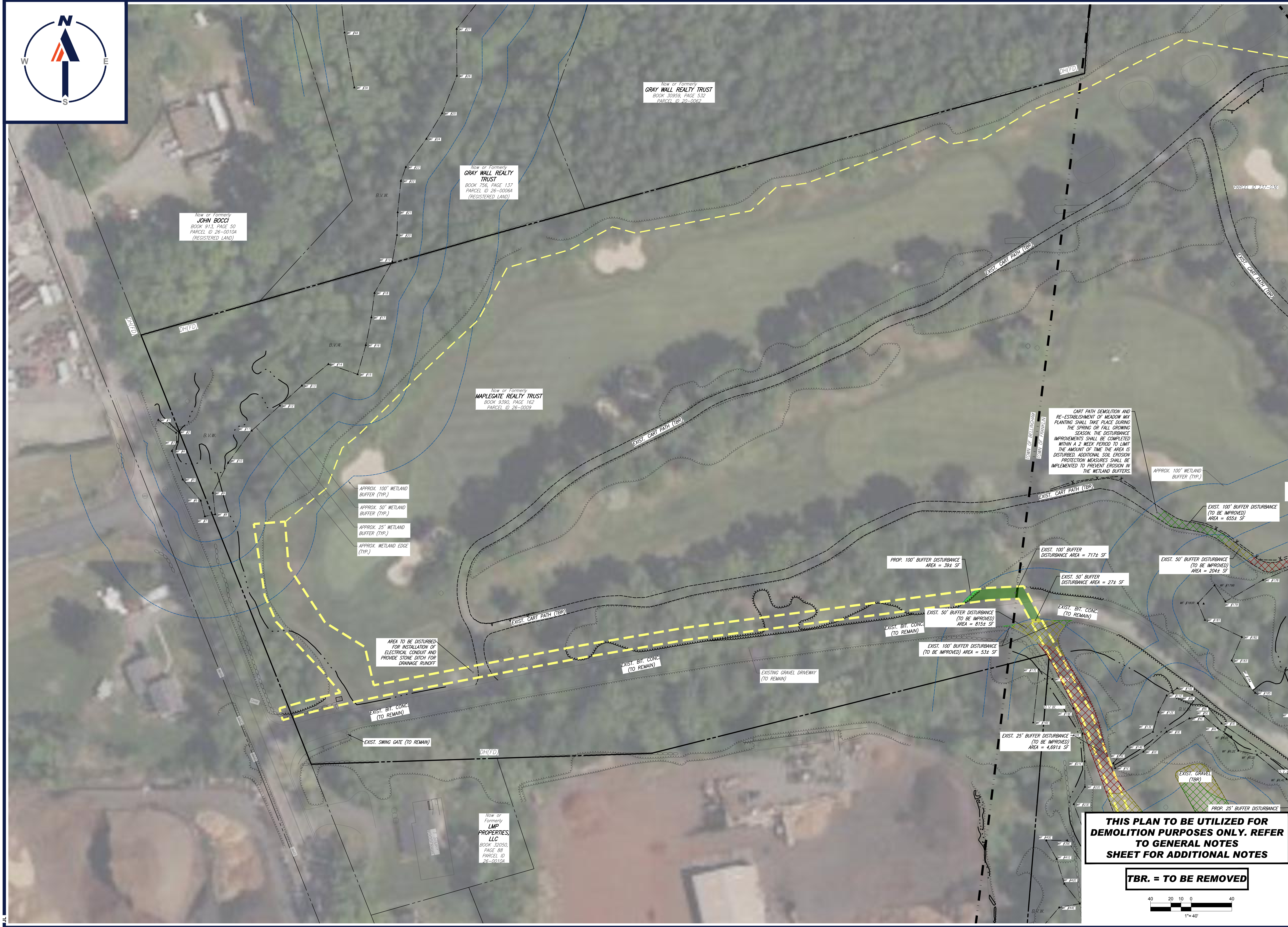
**OVERALL INDEX PLAN**

SHEET NUMBER:  
**C-201**

REVISION 5 - 9/12/2023

P:\01\201257\CADD\DRAWINGS\PLAN SET\REVISED\2023\09\12\01-INDEX-201-01.dwg





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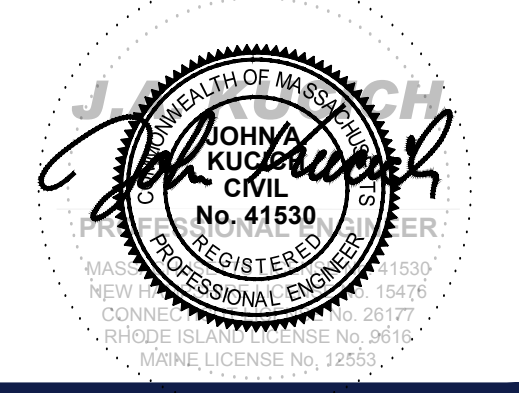
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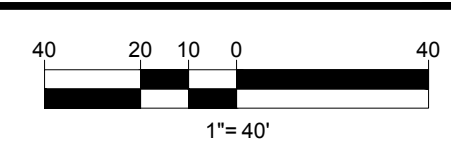
SHEET TITLE:  
**DEMOLITION PLAN A**

SHEET NUMBER:  
**C-202**

REVISION 5 - 9/12/2023

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

**TBR. = TO BE REMOVED**



P:\DWG\2023\CADD\DRAWINGS\PLAN SET\CIVIL SITE PLAN\2023\2023-DEMO-SB-PLAN\DWG C-202-DEMO A





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

Now or Formerly  
**UNITED STATES OF AMERICA**  
BK 5736, PAGE 732  
PARCEL ID 237-026

687.93'  
S43°20'06"E

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. 100' BUFFER DISTURBANCE (TO BE IMPROVED)  
AREA = 736± SF

EXIST. 25' BUFFER DISTURBANCE (TO BE IMPROVED)  
AREA = 1,378± SF

PROP. LIMIT OF WORK FOR SITE RESTORATION IMPROVEMENTS (TYP.)

EXIST. 50' BUFFER DISTURBANCE (TO BE IMPROVED)  
AREA = 348± SF

EXIST. 25' BUFFER DISTURBANCE (TO BE IMPROVED)  
AREA = 104± SF

EXIST. CONSTRUCTED OVERFLOW/SPILLWAY (TO REMAIN)

EXIST. 100' BUFFER DISTURBANCE (TO BE IMPROVED)  
AREA = 319± SF

EXIST. 50' BUFFER DISTURBANCE (TO BE IMPROVED)  
AREA = 221± SF

174.37'  
S56°12'08"W

Now or Formerly  
**TOWN OF FRANKLIN**  
(PLAN 318 OF 1997)  
(NO LEGAL REFERENCE)  
U.S.A. T. 1930-1

EXIST. CART PATH (TBR)

EXIST. 100' BUFFER DISTURBANCE (TO BE IMPROVED)  
AREA = 365± SF

448°51'29"E 299.49'

EXIST. 100' BUFFER DISTURBANCE (TO BE IMPROVED)  
AREA = 655± SF

EXIST. 50' BUFFER DISTURBANCE (TO BE IMPROVED)  
AREA = 351± SF

EXIST. 25' BUFFER DISTURBANCE (TO BE IMPROVED)  
AREA = 215± SF

EXIST. 50' BUFFER DISTURBANCE (TO BE IMPROVED)  
AREA = 284± SF

PROP. 100' BUFFER DISTURBANCE AREA = 249± SF

APPROX. 100' WETLAND BUFFER (TYP.)

EXIST. 25' BUFFER DISTURBANCE (TO BE IMPROVED)  
AREA = 1,695± SF

EXIST. 100' BUFFER DISTURBANCE (TO BE IMPROVED)  
AREA = 655± SF

EXIST. 50' BUFFER DISTURBANCE (TO BE IMPROVED)  
AREA = 204± SF

EXIST. 100' BUFFER DISTURBANCE (TO BE IMPROVED)  
AREA = 166± SF

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

APPROX. 100' WETLAND BUFFER (TYP.)

APPROX. 50' WETLAND BUFFER (TYP.)

APPROX. 25' WETLAND BUFFER (TYP.)

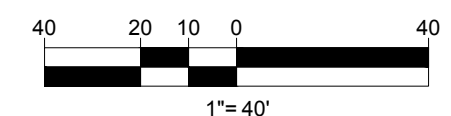
APPROX. WETLAND EDGE (TYP.)

EXIST. 25' BUFFER DISTURBANCE AREA = 3,418± SF

PROP. 50' BUFFER DISTURBANCE AREA = 262± SF

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SHEET TITLE:  
**DEMOLITION PLAN B**

SHEET NUMBER:  
**C-203**

REVISION 5 - 9/12/2023

P:\2023\2023\CADD\DRAWINGS\PLAN SET\CIVIL SITE PLAN\2023\2023 DEMO-SB-PLAN\0101.DWG: C-203-DEMO B





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



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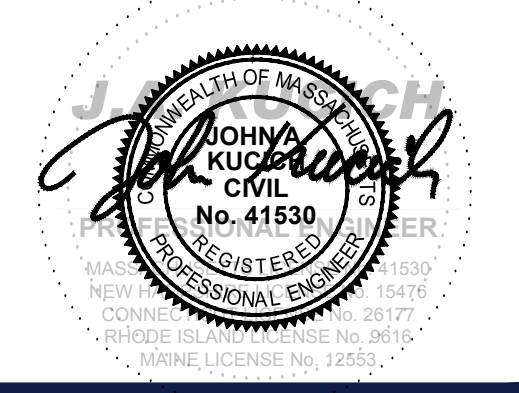
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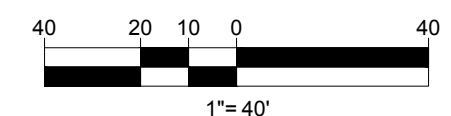
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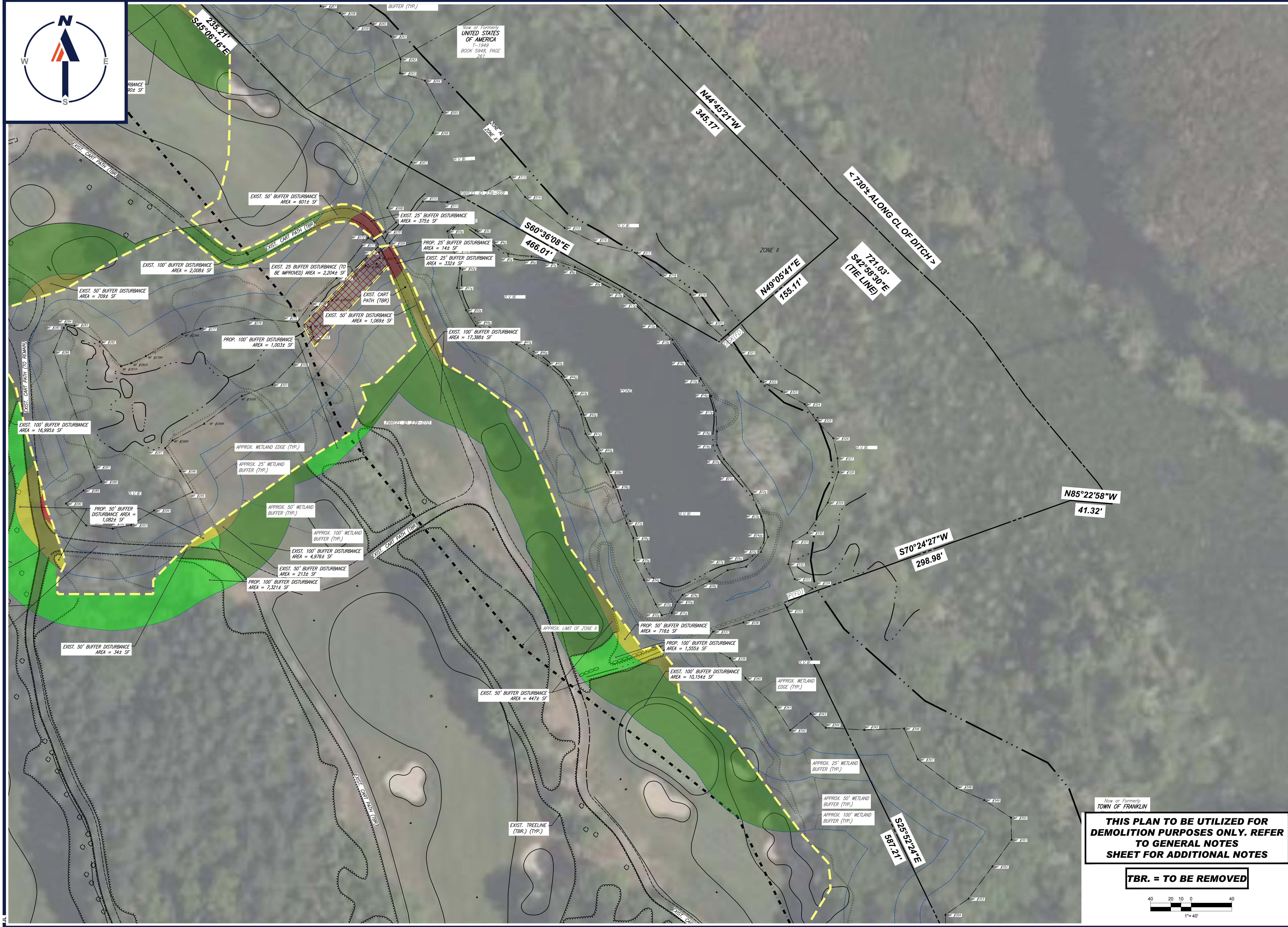
SHEET TITLE:  
**DEMOLITION PLAN C**

SHEET NUMBER:  
**C-204**

REVISION 5 - 9/12/2023

P:\2023\2023\2307\CAD\DRAWINGS\PLAN SET\CIVIL\SITE PLAN\2023\2023\2307-DEMO-58-PLAN\OUT\1-C-204-DEMO-C





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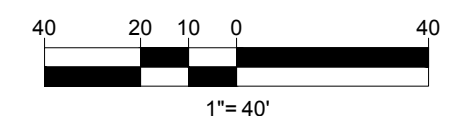
SHEET TITLE:  
**DEMOLITION PLAN D**

SHEET NUMBER:  
**C-205**

REVISION 6 - 9/12/2023

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P:\01\2023\CAD\DRAWINGS\PLAN SET\CIVIL SITE PLAN\2023\2023 DEMO-58-PLAN.DWG: C-205-DEMO D





Now or Formerly  
LMP PROPERTIES, LLC  
BOOK 32050, PAGE 98  
PARCEL ID: 32-0007

N18°34'30"E  
78.91'

PROP. LIMIT OF WORK (TYP.)

297.99'  
N60°45'22"W

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

260.13'  
N62°32'38"W

N6°40'39"W  
500.46'

DH(FD)

S87°05'16"E131.97'

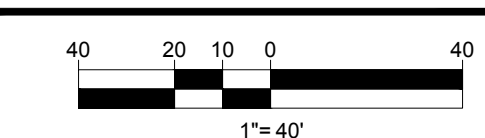
S80°26'16"E  
190.71'

785.48'  
27°34'E

S60°46'43"E  
295.09'

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PROPOSED  
SOLAR FARM

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SHEET TITLE:  
**DEMOLITION  
PLAN E**

SHEET NUMBER:  
**C-206**

REVISION 5 - 9/12/2023

P:\2023\237\CADD\DRAWINGS\PLAN SET\CIVIL SITE PLANS\W201257-DEMO-58-PLAN\A\OUT\1-C-206-DEMO E

Merly  
ER COMPANY  
10E 390  
-0008





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**REVISIONS**

REV	DATE	COMMENT	CHECKED BY
1	06/07/2023	PLANNING BOARD COMMENTS	OCR
2	07/10/2023	PLANNING BOARD COMMENTS	OCR
3	7/19/2023	PER SURVEY UPDATES	AP
4	8/01/2023	PARCEL AREA REFERENCES	AP
5	9/12/2023	PER CONS COM CONDITIONS	JDL

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PROJECT No.: W201257  
 DRAWN BY: EVD / CMC / OCR  
 CHECKED BY: GD  
 DATE: 04/13/2023  
 CAD ID: W201257-DEMO-58

**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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 Phone: (508) 480-9900  
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Now c  
 UNITED  
 AN  
 BK 591  
 PARCEL

**JOHN A. KLUGER**  
 CIVIL ENGINEER  
 No. 41530  
 REGISTERED PROFESSIONAL ENGINEER  
 MAINE LICENSE NO. 12555

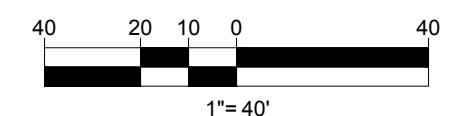
SHEET TITLE:  
**DEMOLITION PLAN F**

SHEET NUMBER:  
**C-207**

REVISION 5 - 9/12/2023

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

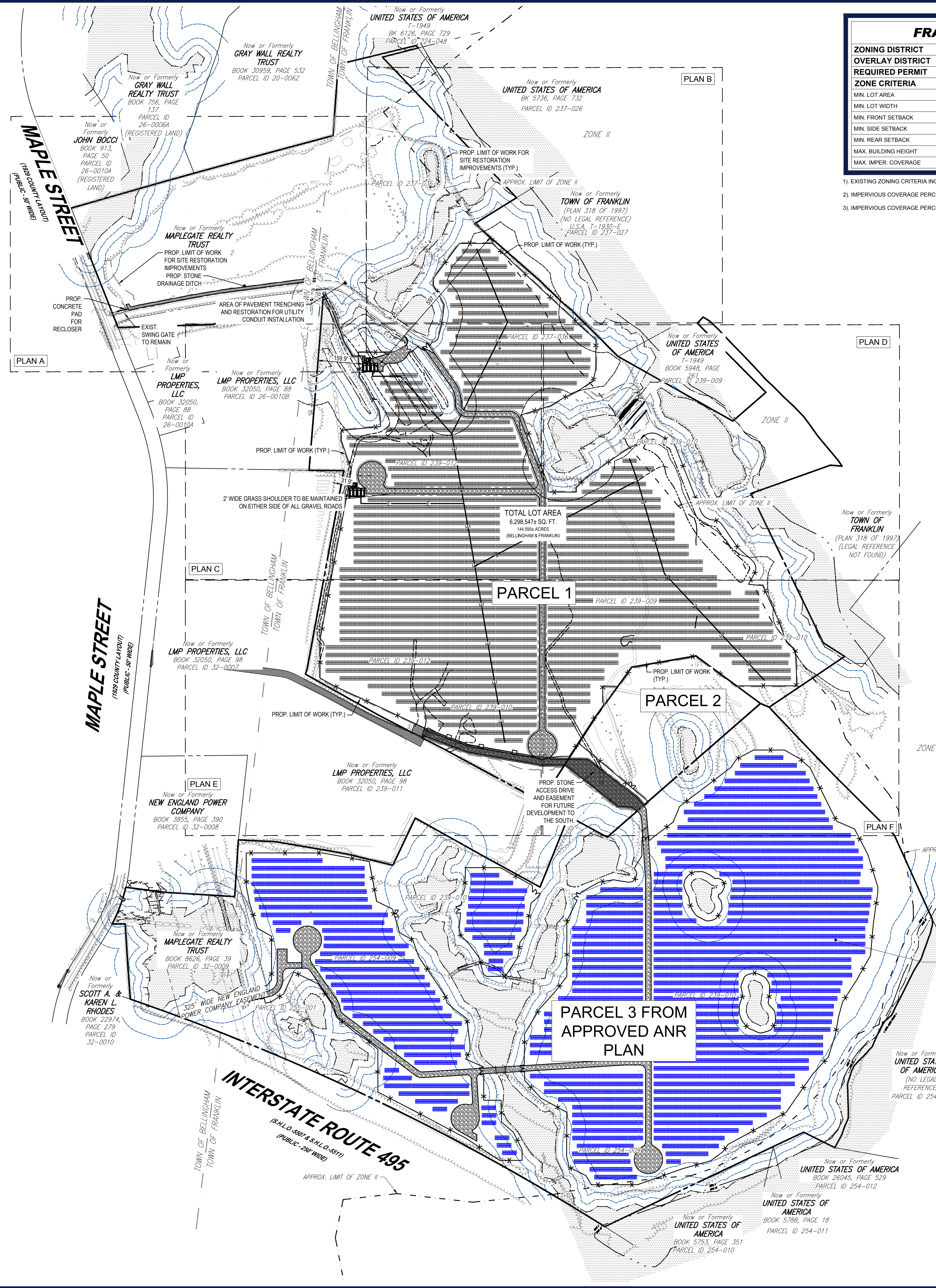
**TBR. = TO BE REMOVED**



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P:\01\2023\CAD\DRAWINGS\PLAN SET\CIVIL SITE PLANS\W201257-DEMO-58-PLAN\TBR.DWG: C-207-DEMO F





FRANKLIN ZONING ANALYSIS TABLE					
ZONING DISTRICT	INDUSTRIAL	N/A - NOT APPLICABLE			
OVERLAY DISTRICT	NONE	N/S - NOT SPECIFIED			
REQUIRED PERMIT	TBD	(V) - VARIANCE REQUESTED (W) - WAIVER REQUESTED (E) - EXIST. NON-COMFORMANCE			
ZONE CRITERIA	REQUIRED	EXISTING <sup>1</sup>	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% <sup>2</sup>	2.9 % <sup>3</sup>	7.1 % <sup>3</sup>	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			
ZONING DISTRICT	SUBURBAN	N/A - NOT APPLICABLE	
OVERLAY DISTRICT	NONE	N/S - NOT SPECIFIED	
REQUIRED PERMIT	TBD	(V) - VARIANCE REQUESTED (W) - WAIVER REQUESTED (E) - EXIST. NON-COMFORMANCE	
ZONE CRITERIA	REQUIRED	EXISTING	PROPOSED PARCEL 26-009
MIN. LOT AREA	0.92 ACRES	± 9.6 ACRES	± 9.6 ACRES
MIN. LOT FRONTAGE	150.0'	±54.1'	±54.1'
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%

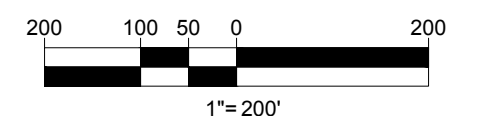
14,994.72 - KW DC  
 4,999 - KW AC NORMAL  
 4,999 - KW AC MAXIMUM  
 PHOTOVOLTAIC POWER SYSTEM  
 W/ 5,000 KW / 31,000 KWH DC-COUPLED STORAGE

SOUTH SOLAR PROJECT BY MAPLE STREET SOLAR LLC  
 PROPOSED SOLAR IMPROVEMENTS DEPICTED FOR REFERENCE ONLY - NOT PART OF THIS APPLICATION

**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.**

**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.**

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REVISIONS				
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3	7/19/2023	PER SURVEY UPDATES	AP	GD
4	8/01/2023	PARCEL AREA REFERENCES	AP	GD
5	9/12/2023	PER CONS COM CONDITIONS	JDL	GD



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PROJECT No.: W201257  
 DRAWN BY: EVD / CMC / OCR  
 CHECKED BY: GD  
 DATE: 04/13/2023  
 CAD ID.: W201257-SPPD-58

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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SHEET TITLE:

**OVERALL SITE LAYOUT PLAN**

SHEET NUMBER:  
**C-301**

REVISION 5 - 9/12/2023

P:\01070137\CADD\DRAWINGS\PLAN SET\CIVIL SITE PLAN\SW201257-SPPD-58-1-24\01070137-C-301-OVERALL SITE









NO4°07' 25.2"

(FD)

P:\DWG\2013\7\CAD\DRAWINGS\PLAN SET\CIVIL SITE PLANS\W201257-SPD-5B-1\LAYOUT-C-303-SITE B

Now or Formerly  
UNITED STATES OF  
AMERICA  
BK 5736, PAGE 732  
PARCEL ID 237-026

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

PROP. LIMIT OF WORK FOR  
SITE RESTORATION  
IMPROVEMENTS (TYP.)

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

APPROX. LOCATION OF  
EXIST. OVERFLOW/SPILLWAY

ZONE AE  
ZONE X

174.37'  
S58°12'08"W

Now or Formerly  
TOWN OF FRANKLIN  
(PLAN 318 OF 1997)  
(NO LEGAL REFERENCE)  
U.S.A. T-1930-E  
PARCEL ID 237-027

S48°51'29"E 299.49'

125.22' S45°56'32"E

32.35'  
S52°04'31"E

PROPOSED PERIMETER  
FENCE  
PROPOSED FIXED TILT SOLAR  
RACKING (TYP.)  
645W PV MODULES  
PROP. UNDERGROUND  
ELECTRIC

PROPOSED PERIMETER  
FENCE (TYP.)  
APPROX. 100' WETLAND  
BUFFER (TYP.)  
APPROX. 25' WETLAND  
BUFFER (TYP.)  
APPROX. WETLAND  
EDGE (TYP.)  
B.V.W.  
VERNAL POOL  
PROP. UNDERGROUND  
ELECTRIC  
PROP. MODIFICATION TO  
EXISTING GRAVEL LIMITS TO  
ELIMINATE WETLAND IMPACT.

PARCEL ID 237-036

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TRANSPORTATION SERVICES

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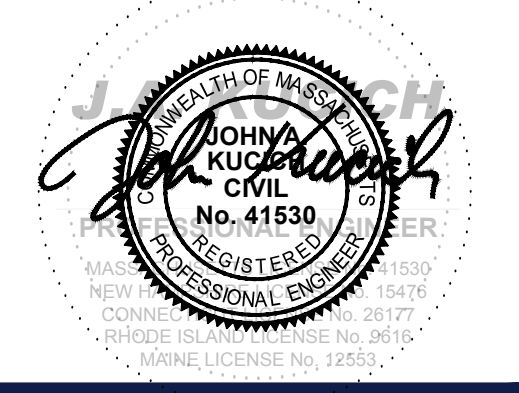
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PROJECT No.: W201257  
DRAWN BY: EVD / CMC / OCR  
CHECKED BY: GD  
DATE: 04/13/2023  
CAD ID: W201257-SPD-5B

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

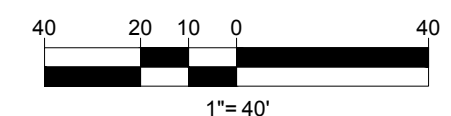
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**LOAM AND SEED SHALL BE PROPOSED IN AREAS WHERE GRAVEL OR PAVED CART PATHS, ROADWAYS, AND PARKING AREAS ARE TO BE REMOVED (TYP.). LOAM AND SEED SHALL BE PLACED ACCORDING TO THE MANUFACTURERS SPECIFICATIONS.**

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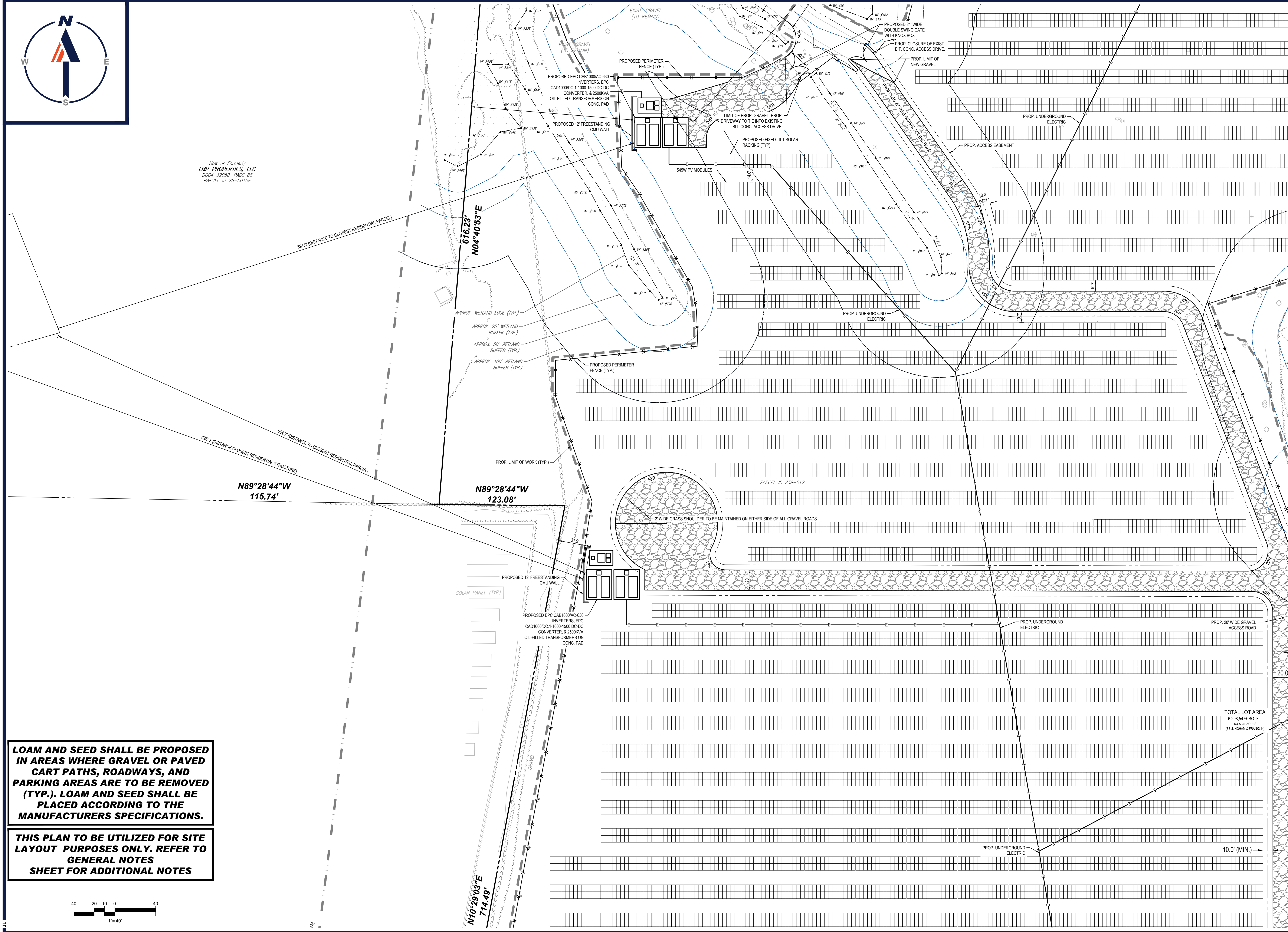
SHEET TITLE:  
**SITE LAYOUT PLAN B**  
SHEET NUMBER:  
**C-303**  
REVISION 5 - 9/12/2023







Now or Formerly  
LMP PROPERTIES, LLC  
DOWN 2250, PHASE 5B  
PARCEL ID 26-00108



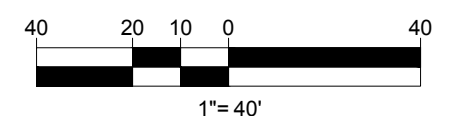
N89°28'44"W  
115.74'

N89°28'44"W  
123.08'

N10°29'03"E  
774.49'

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**REVISIONS**

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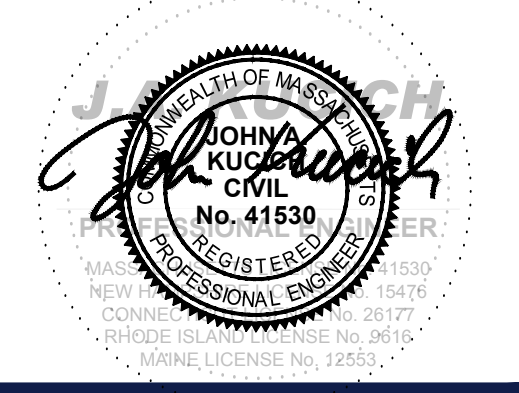
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DATE: 04/13/2023  
CAD ID: W201257-SPPD-5B

**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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TOWN OF BELLINGHAM & FRANKLIN,  
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SHEET TITLE:  
**SITE LAYOUT PLAN C**  
SHEET NUMBER:  
**C-304**  
REVISION 5 - 9/12/2023

P:\20\201257\CADD\DRAWINGS\PLAN SET\CIVIL SITE PLAN\201257-SPPD-5B-LAYOUT1-C-304-BITE.C





Now or Formerly  
UNITED STATES  
OF AMERICA  
T-1949  
BOOK 5048, PAGE  
261



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LANDSCAPE ARCHITECTURE  
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PROJECT No.: W201257  
DRAWN BY: EVD / CMC / OCR  
CHECKED BY: GD  
DATE: 04/13/2023  
CAD ID: W201257-SPPD-58

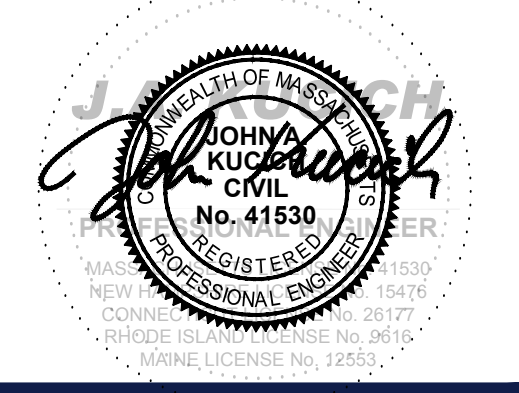
**PROPOSED SITE PLAN DOCUMENTS**

FOR  
**NEXTGRID MESCALBEAN LLC**

PROPOSED SOLAR FARM

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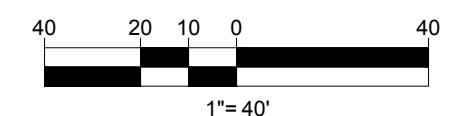
SHEET TITLE:  
**SITE LAYOUT PLAN D**

SHEET NUMBER:  
**C-305**

REVISION 5 - 9/12/2023

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P:\01\2023\CADD\DRAWINGS\PLAN SET\CIVIL SITE PLAN\2023\2023-SPPD-58-LAYOUT1-C-305-BITE.D





Now or Formerly  
**LMP PROPERTIES, LLC**  
 BOOK 32050, PAGE 98  
 PARCEL ID 32-0007

TOWN OF BELLINGHAM  
 TOWN OF FRANKLIN

$N18^{\circ}34'30''E$   
 $18.91'$

$297.99'$   
 $N60^{\circ}45'22''W$

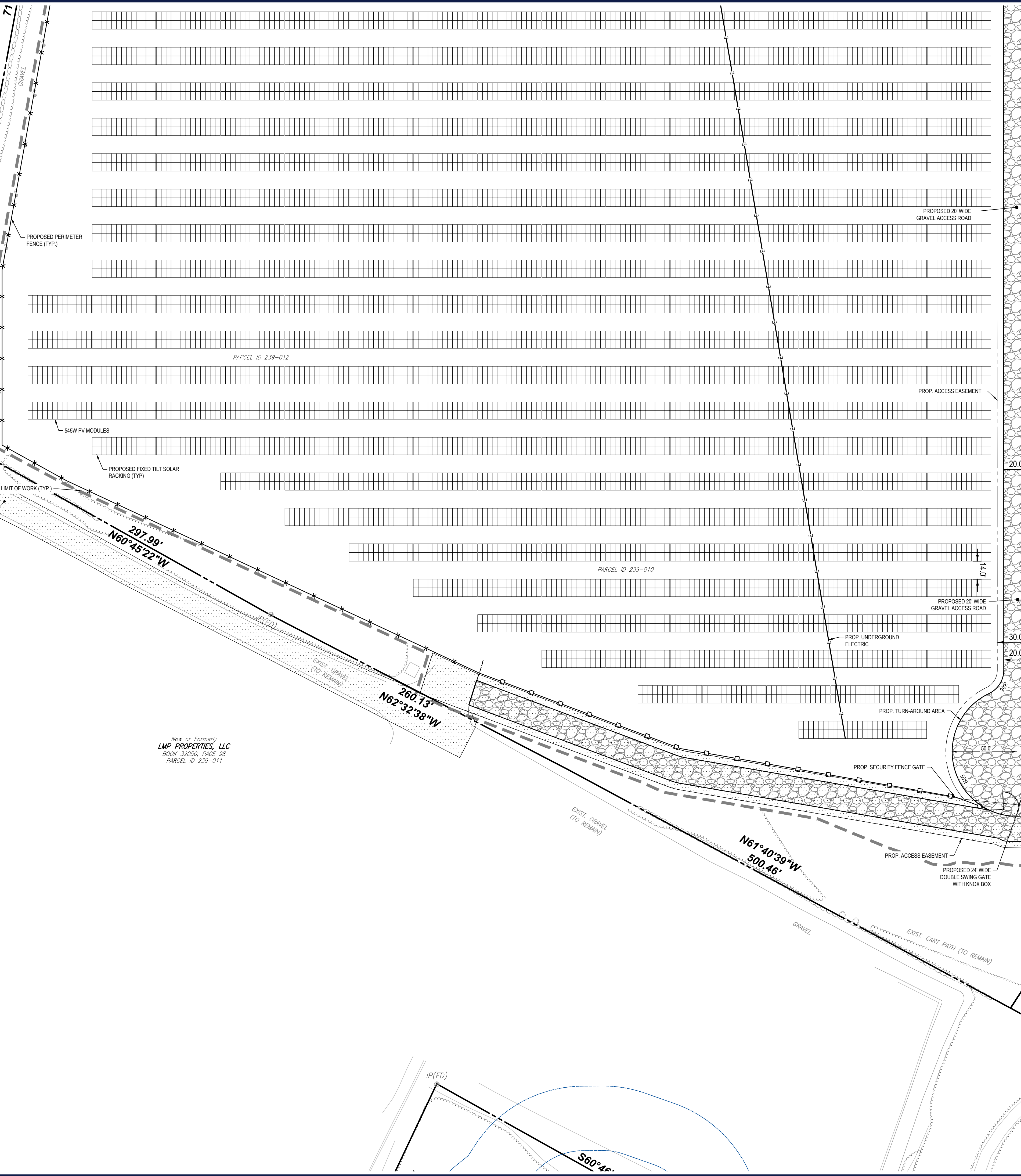
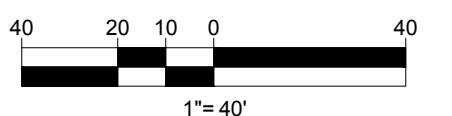
$260.13'$   
 $N62^{\circ}32'38''W$

$N61^{\circ}40'39''W$   
 $500.46'$

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

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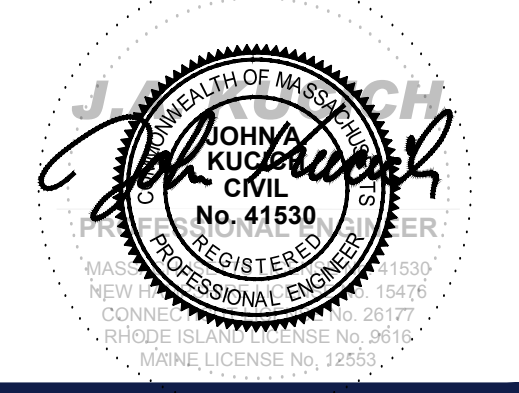
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PROJECT No.: W201257  
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 CAD ID: W201257-SPPD-58

PROJECT:  
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 PROPOSED SOLAR FARM

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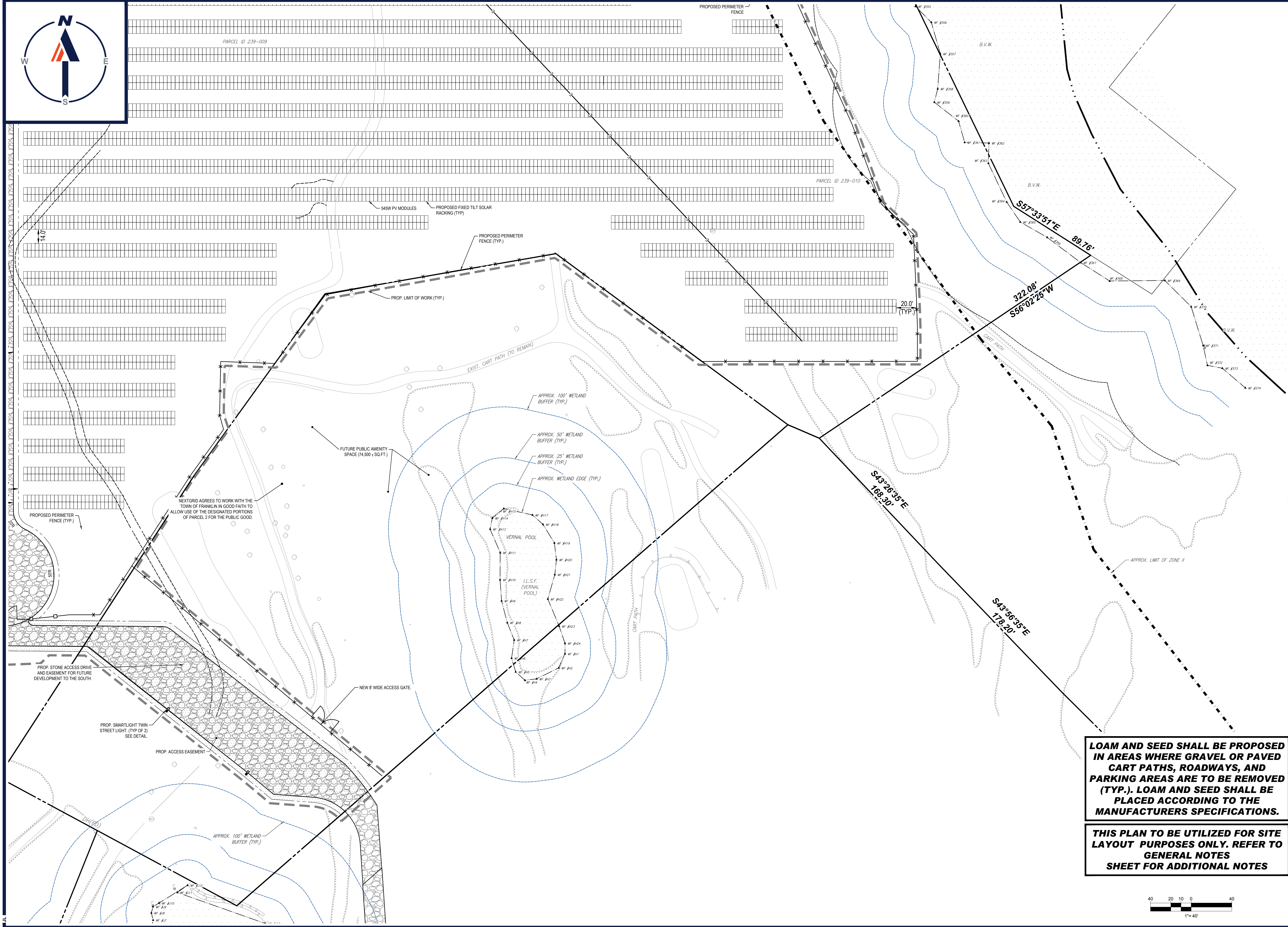
SHEET TITLE:  
**SITE LAYOUT PLAN E**

SHEET NUMBER:  
**C-306**

REVISION 5 - 9/12/2023

P:\01\201257\CADD\DRAWINGS\PLAN SET\CIVIL SITE PLANS\W201257-SPPD-58-LAYOUT-C-006-BITE E





P:\01\201257\CADD\DRAWINGS\PLAN SET\CIVIL SITE PLANS\W201257-SPD-5B-1-24\DWG\C-307-5B1.F

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 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 ID: W201257-SPD-5B

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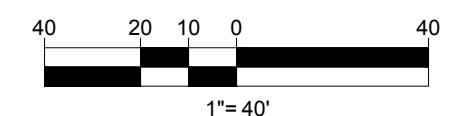
**LOAM AND SEED SHALL BE PROPOSED IN AREAS WHERE GRAVEL OR PAVED CART PATHS, ROADWAYS, AND PARKING AREAS ARE TO BE REMOVED (TYP.). LOAM AND SEED SHALL BE PLACED ACCORDING TO THE MANUFACTURERS SPECIFICATIONS.**

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

SHEET TITLE:  
**SITE LAYOUT PLAN F**

SHEET NUMBER:  
**C-307**

REVISION 5 - 9/12/2023







P:\01\2013\7\CAD\DRAWINGS\PLAN SET\CIVIL SITE PLANS\2013\2257-GRAD-B-1-LAYOUT-C-401-GRAD-OVERALL

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 PROGRAM MANAGEMENT  
 LANDSCAPE ARCHITECTURE  
 SUSTAINABLE DESIGN  
 PERMITTING SERVICES  
 TRANSPORTATION SERVICES

**REVISIONS**

REV	DATE	COMMENT	CHECKED BY
1	06/07/2023	PLANNING BOARD COMMENTS	OCR
2	07/10/2023	PLANNING BOARD COMMENTS	GD
3	7/19/2023	PER SURVEY UPDATES	AP
4	8/01/2023	PARCEL AREA REFERENCES	AP
5	9/12/2023	PER CONS COM CONDITIONS	JDL

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PROJECT No.: W201257  
 DRAWN BY: EVD / CMC / OCR  
 CHECKED BY: GD  
 DATE: 04/13/2023  
 CAD ID: W201257-GRAD-58

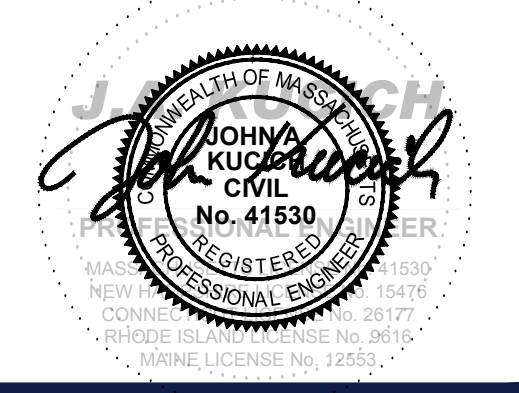
**PROPOSED SITE PLAN DOCUMENTS**

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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SHEET TITLE:  
**OVERALL GRADING PLAN**

SHEET NUMBER:  
**C-401**

REVISION 5 - 9/12/2023

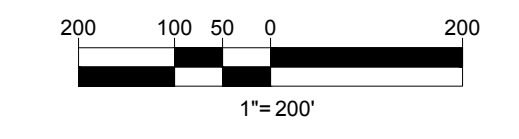
**THE PURPOSE OF THE OVERALL PLAN SHEET IS TO BE UTILIZED AS A SITE KEY MAP, TO PROVIDE SITE FEATURE LOCATIONS ONLY. PLEASE REFER TO EACH INDIVIDUAL SHEET FOR MORE INFORMATION.**

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

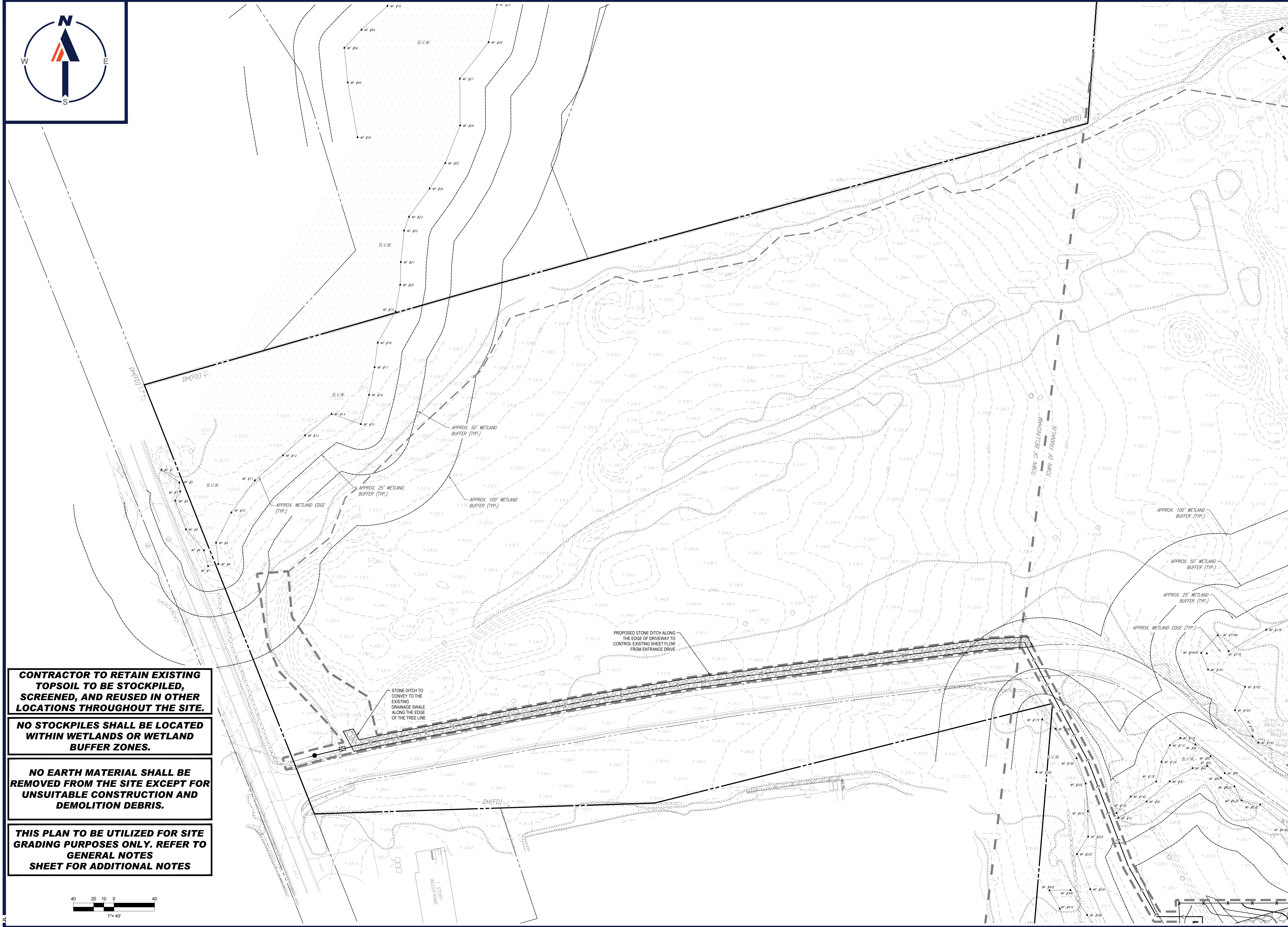
**NO STOCKPILES SHALL BE LOCATED WITHIN WETLANDS OR WETLAND BUFFER ZONES.**

**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**





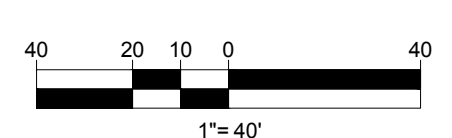


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 SUSTAINABLE DESIGN  
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 TRANSPORTATION SERVICES

**REVISIONS**

REV	DATE	COMMENT	CHECKED BY
1	06/07/2023	PLANNING BOARD COMMENTS	OCR
2	07/10/2023	PLANNING BOARD COMMENTS	GD
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4	8/01/2023	PARCEL AREA REFERENCES	AP
5	9/12/2023	PER CONS COM CONDITIONS	JDL

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PROJECT No.: W201257  
 DRAWN BY: EVD / CMC / OCR  
 DATE: 04/13/2023  
 CAD ID: W201257-GRAD-58

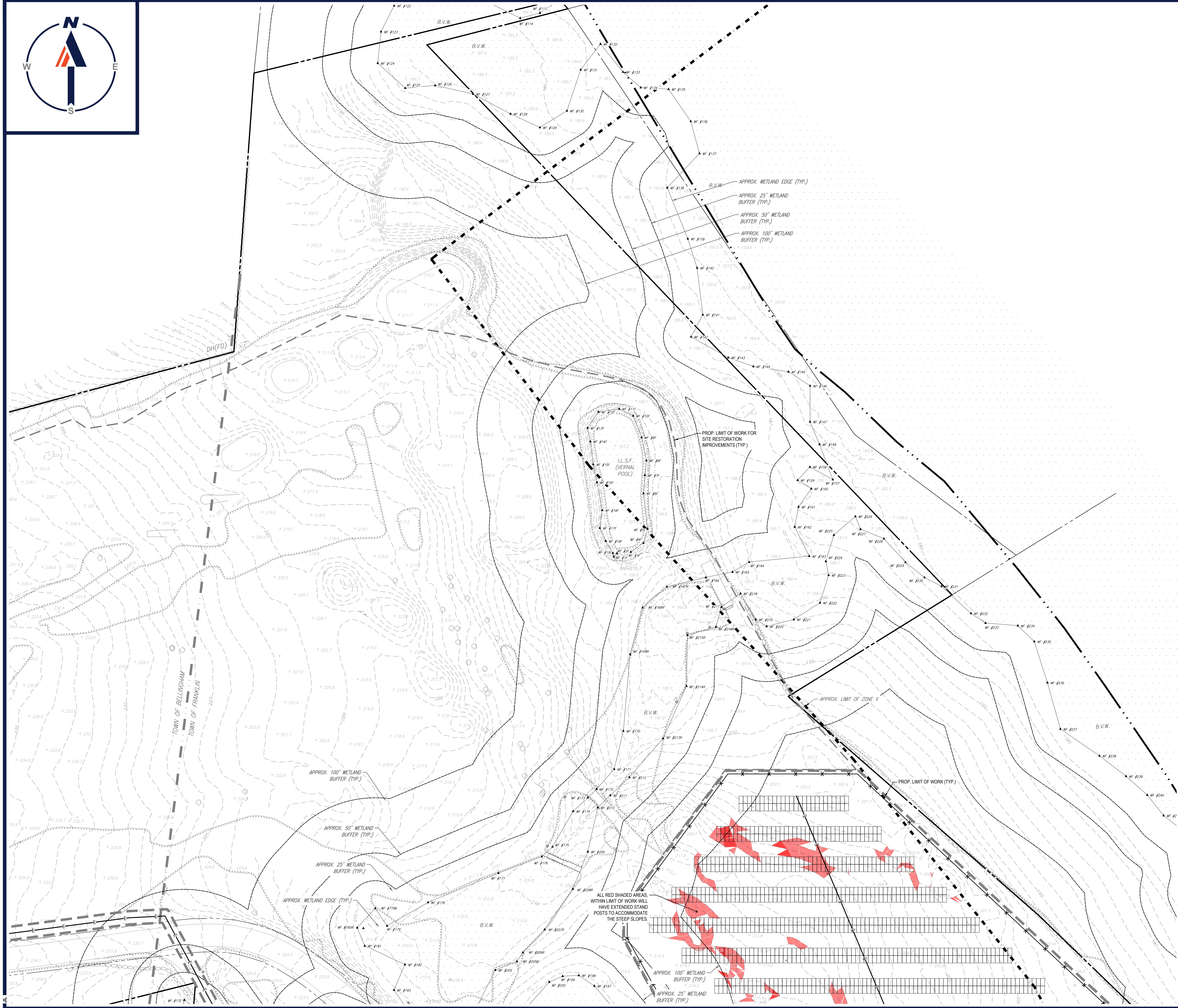
**PROPOSED SITE PLAN DOCUMENTS**  
 FOR  
**NEXTGRID MESCALBEAN LLC**  
 PROPOSED SOLAR FARM  
 LOTS INCLUDED (PARCEL #): 239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009  
 160 MAPLE STREET, TOWN OF BELLINGHAM & FRANKLIN, NORFOLK COUNTY, MASSACHUSETTS

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SHEET TITLE:  
**GRADING PLAN A**  
 SHEET NUMBER:  
**C-402**  
 REVISION 5 - 9/12/2023





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**REVISIONS**

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4	8/01/2023	PARCEL AREA REFERENCES	AP
5	9/12/2023	PER CONS COM CONDITIONS	JDL

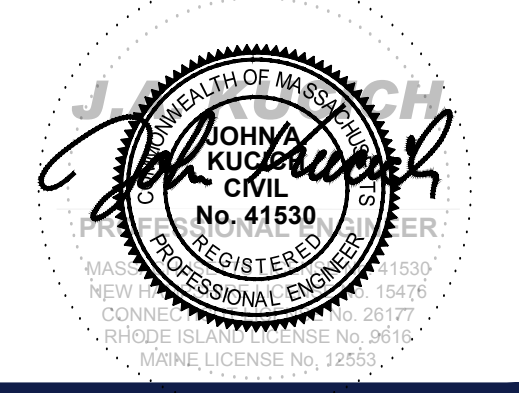
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PROJECT No.: W201257  
 DRAWN BY: EVD / CMC / OCR  
 CHECKED BY: GD  
 DATE: 04/13/2023  
 CAD ID: W201257-GRAD-58

**PROPOSED SITE PLAN DOCUMENTS**  
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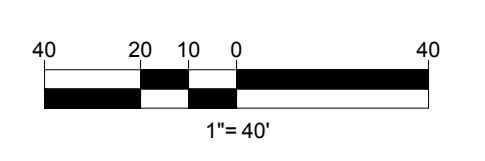
SHEET TITLE:  
**GRADING PLAN B**  
 SHEET NUMBER:  
**C-403**  
 REVISION 5 - 9/12/2023

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

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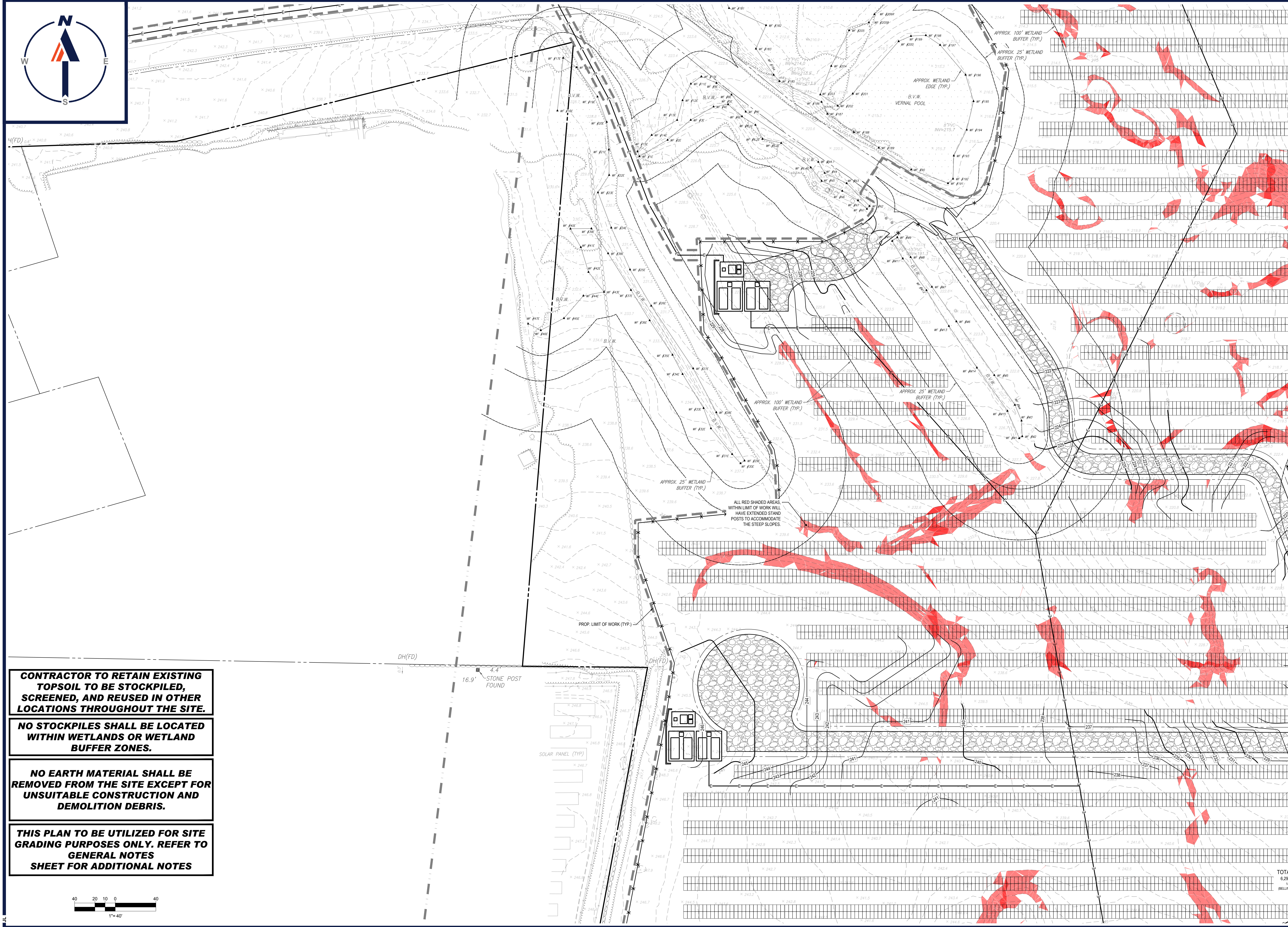
**NO EARTH MATERIAL SHALL BE REMOVED FROM THE SITE EXCEPT FOR UNSUITABLE CONSTRUCTION AND DEMOLITION DEBRIS.**

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



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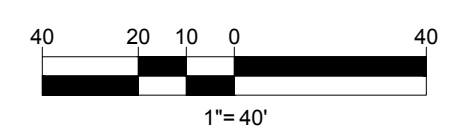


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**REVISIONS**

REV	DATE	COMMENT	CHECKED BY	DRAWN BY
1	06/07/2023	PLANNING BOARD COMMENTS	OCR	GD
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4	8/01/2023	PARCEL AREA REFERENCES	AP	GD
5	9/12/2023	PER CONS COM CONDITIONS	JDL	GD

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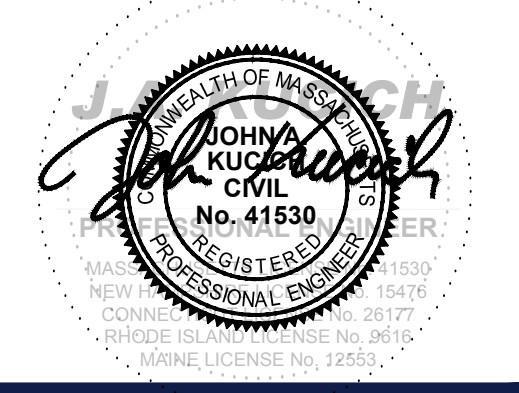
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PROJECT No.: W201257  
 DRAWN BY: EVD / CMC / OCR  
 CHECKED BY: GD  
 DATE: 04/13/2023  
 CAD ID: W201257-GRAD-58

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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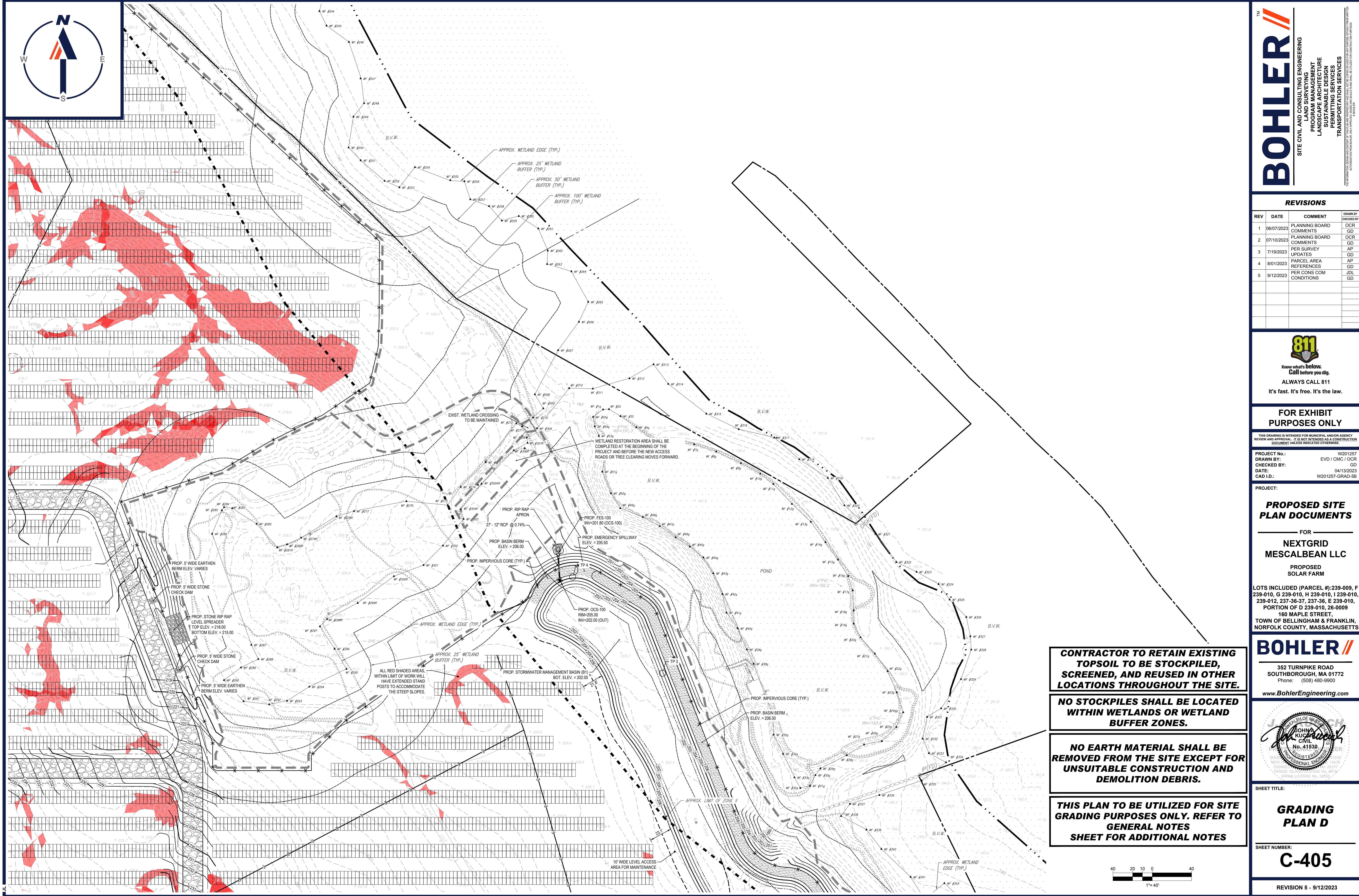
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SHEET TITLE:  
**GRADING PLAN C**  
 SHEET NUMBER:  
**C-404**  
 REVISION 5 - 9/12/2023

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REV	DATE	COMMENT	CHECKED BY
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 CHECKED BY: GD  
 DATE: 04/13/2023  
 CAD ID: W201257-GRAD-58

**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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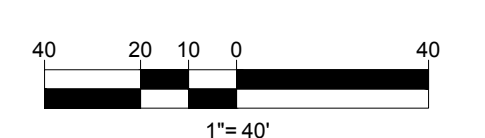


SHEET TITLE:  
**GRADING PLAN D**

SHEET NUMBER:  
**C-405**

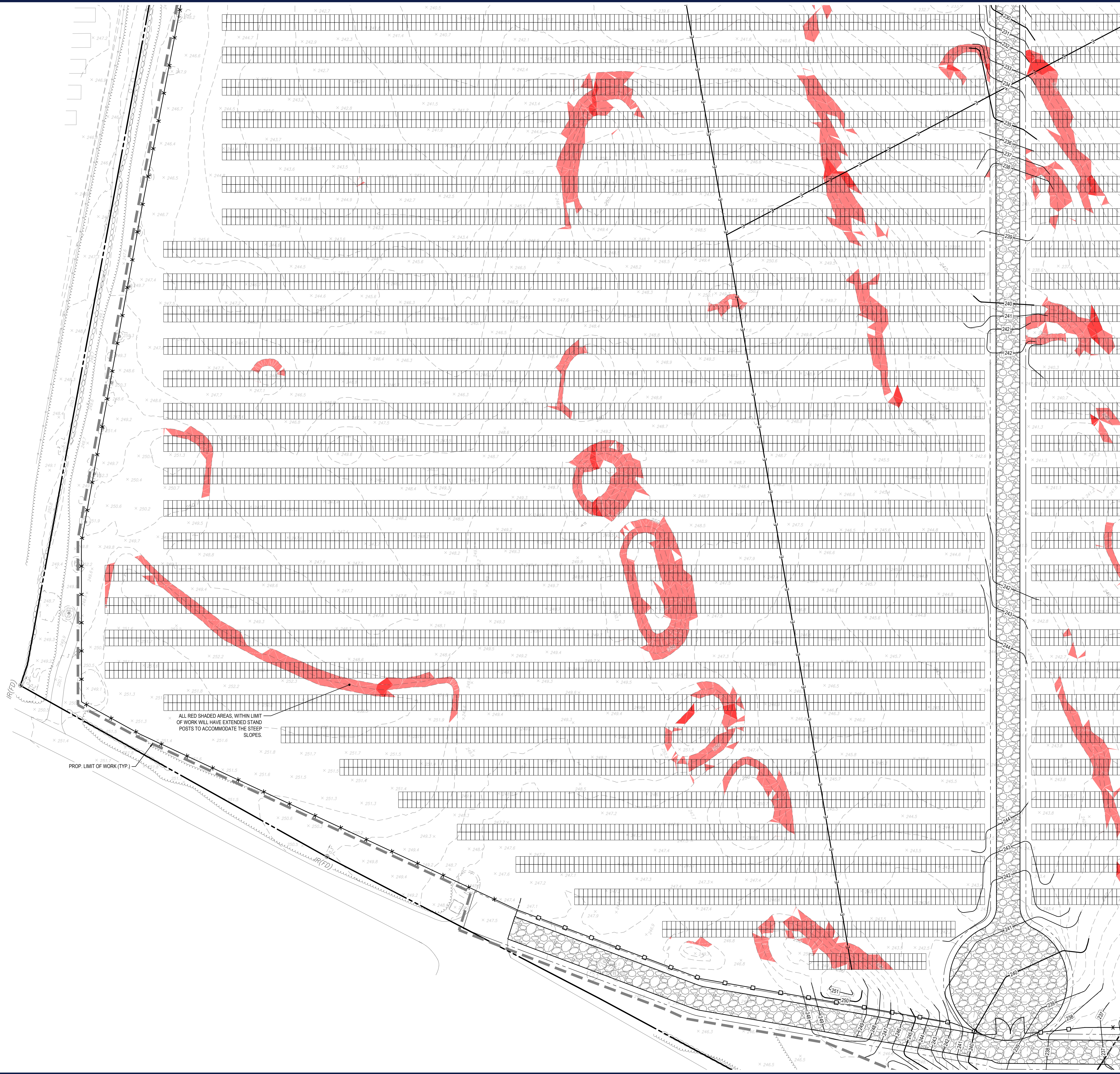
REVISION 5 - 9/12/2023

- 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 NOTES**



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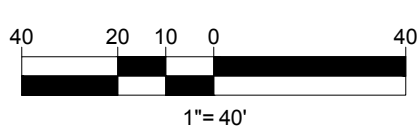


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**PROPOSED SITE PLAN DOCUMENTS**

FOR  
**NEXTGRID MESCALBEAN LLC**  
 PROPOSED SOLAR FARM

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**GRADING PLAN E**

**C-406**

REVISION 5 - 9/12/2023

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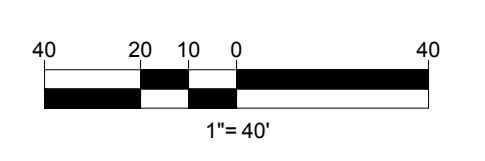
SHEET TITLE:  
**GRADING PLAN F**  
 SHEET NUMBER:  
**C-407**  
 REVISION 5 - 9/12/2023

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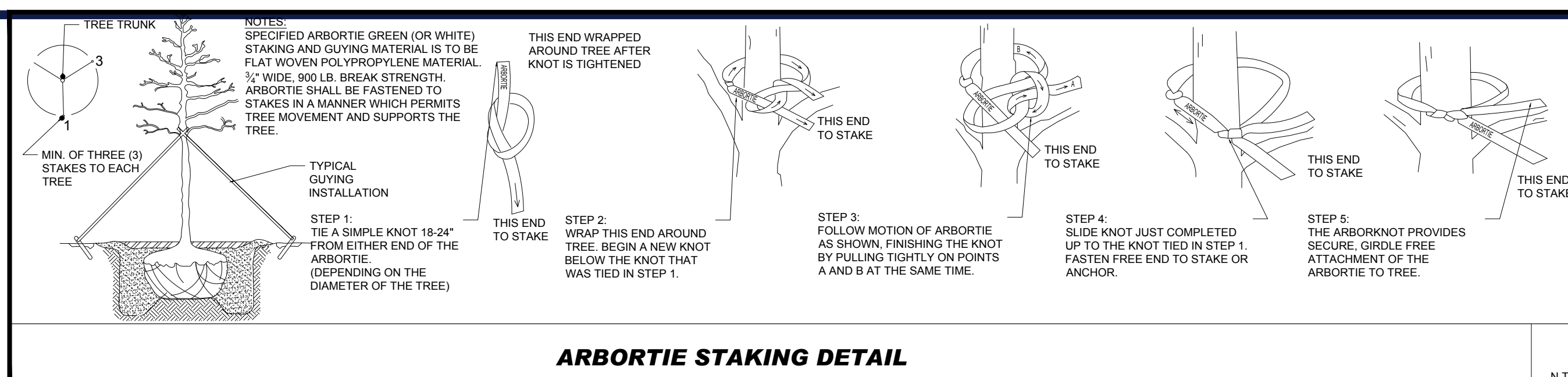
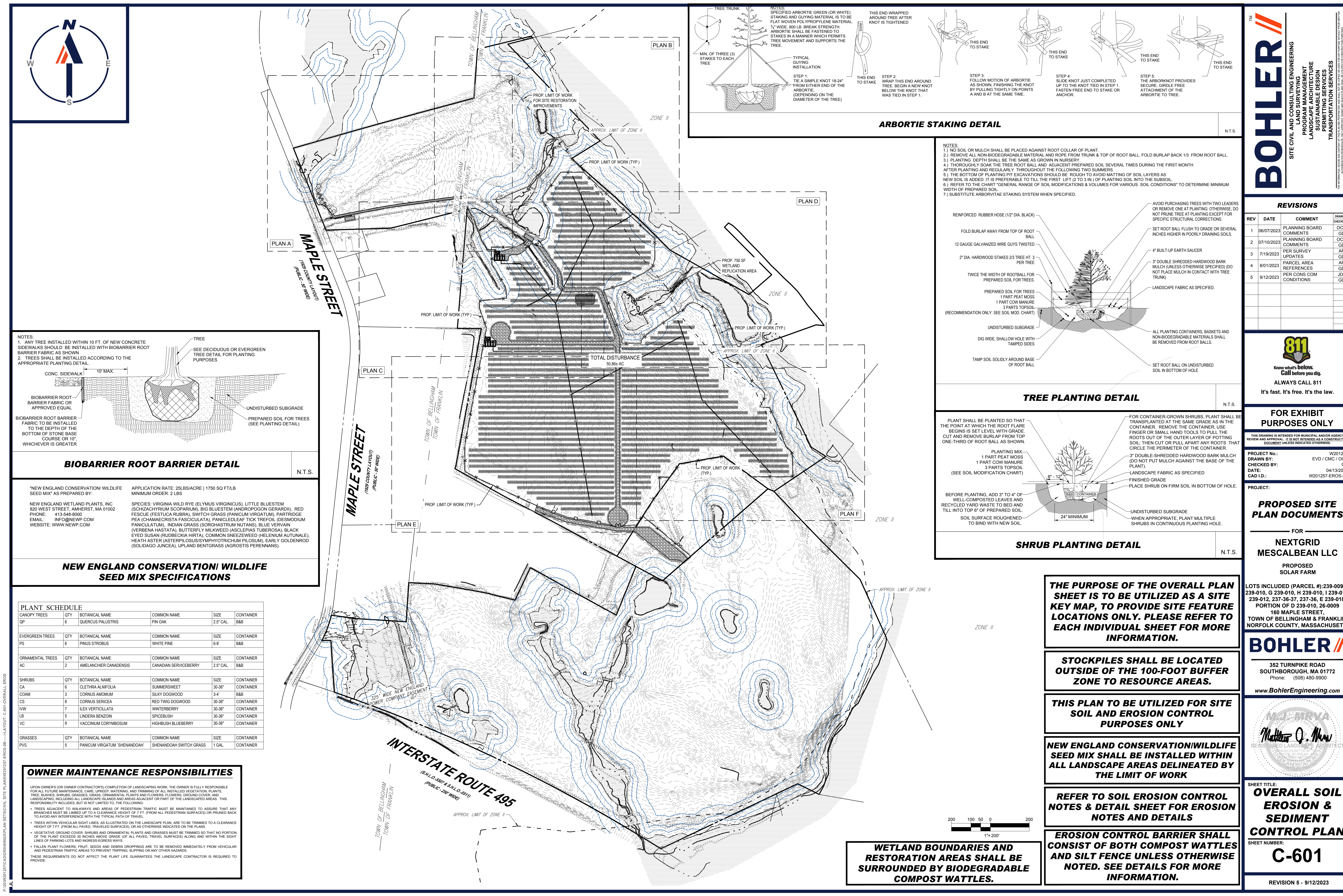
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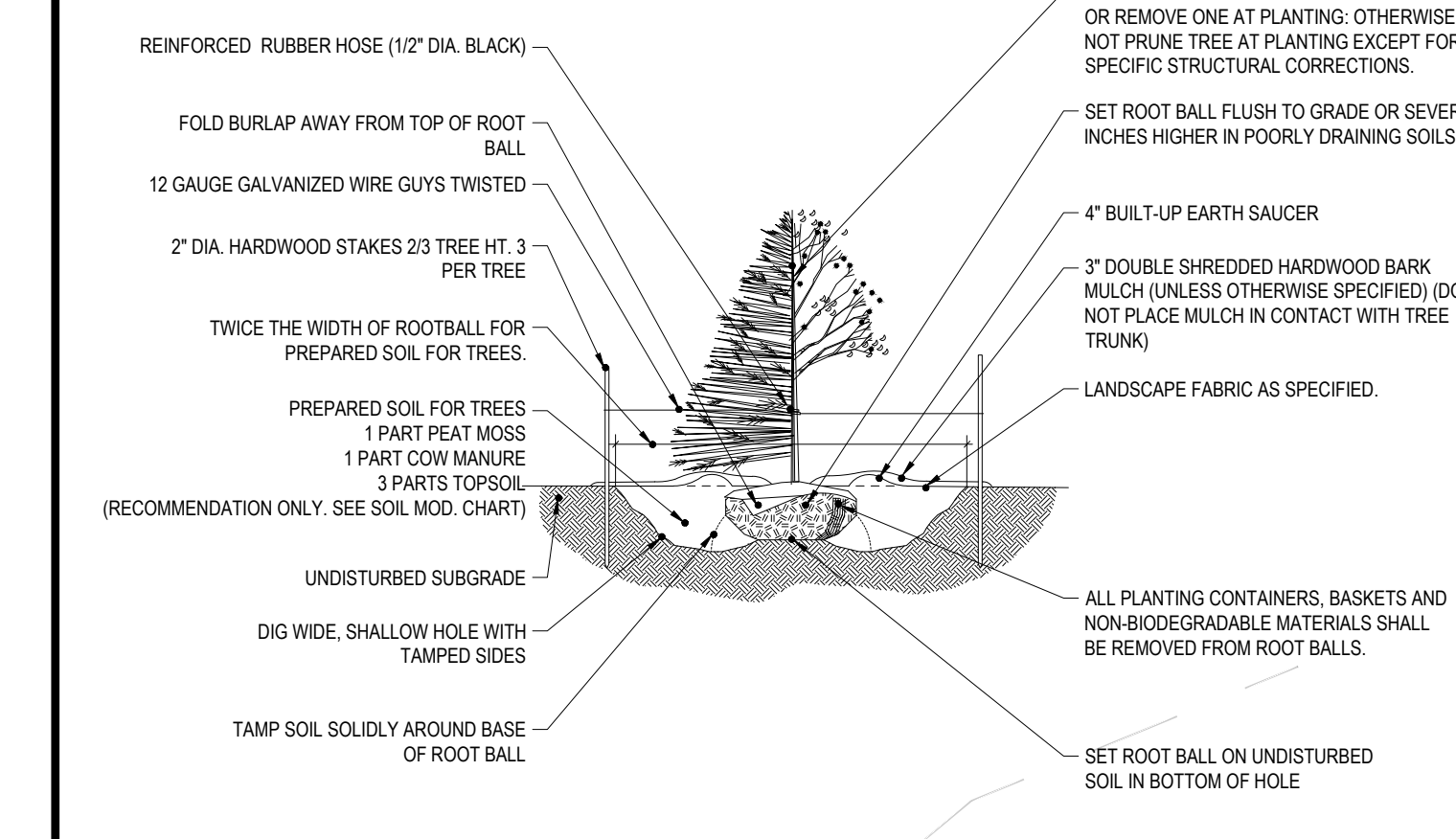
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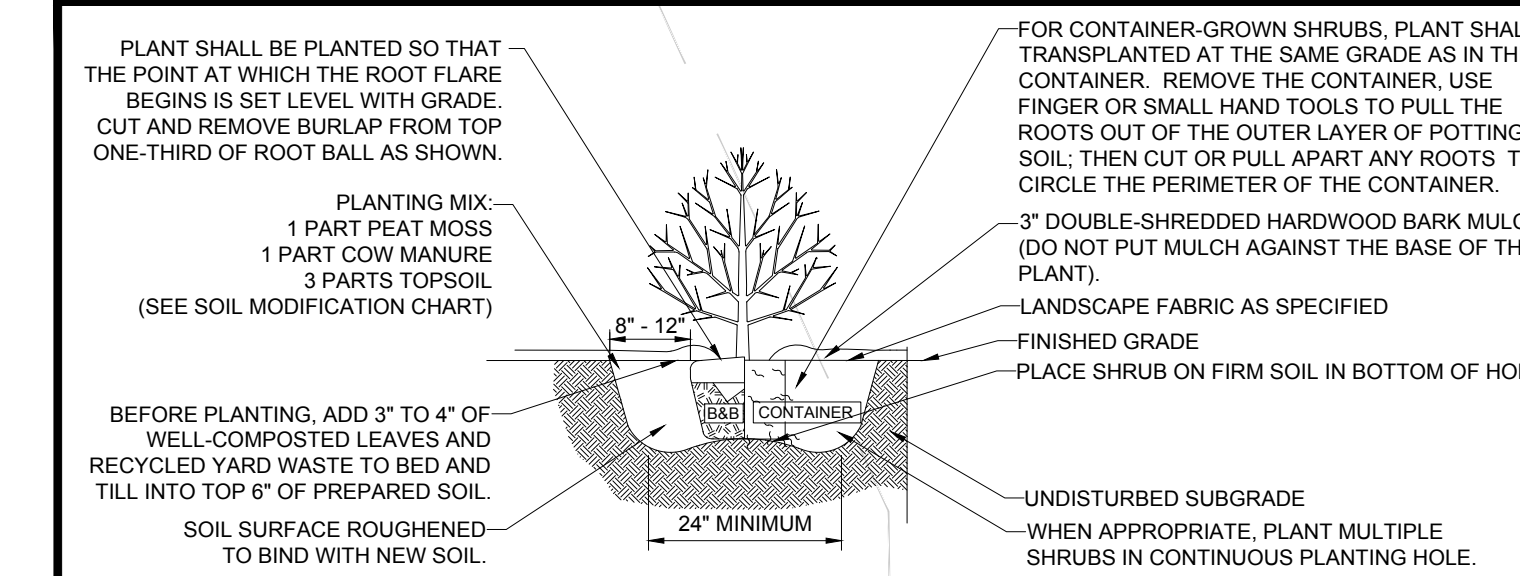


ARBORTIE STAKING DETAIL

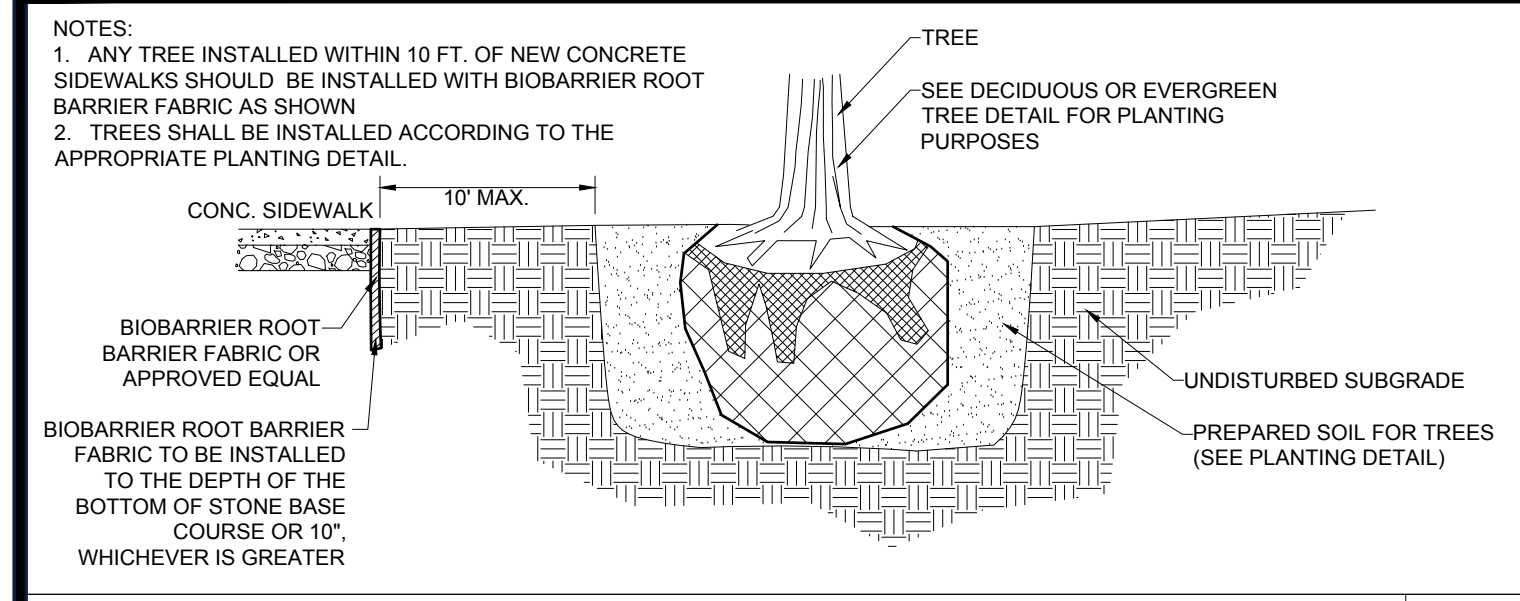
NOTES:  
1.) NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT.  
2.) REMOVE ALL NON-BIODEGRADABLE MATERIAL AND ROPE FROM TRUNK & TOP OF ROOT BALL. FOLD BURLAP BACK 1/3 FROM ROOT BALL.  
3.) PLANTING DEPTH SHALL BE THE SAME AS GROWN IN NURSERY.  
4.) THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.  
5.) THE BOTTOM OF PLANTING PIT EXCAVATIONS SHOULD BE ROUGH TO AVOID MATTING OF SOIL LAYERS AS NEW SOIL IS ADDED. IT IS PREFERABLE TO TILL THE FIRST LIFT (2 TO 3 IN) OF PLANTING SOIL INTO THE SUBSOIL.  
6.) REFER TO THE CHART "GENERAL RANGE OF SOIL MODIFICATIONS & VOLUMES FOR VARIOUS SOIL CONDITIONS" TO DETERMINE MINIMUM WIDTH OF PREPARED SOIL.  
7.) SUBSTITUTE ARBORVITAE STAKING SYSTEM WHEN SPECIFIED.



TREE PLANTING DETAIL



SHRUB PLANTING DETAIL



BIOBARRIER ROOT BARRIER DETAIL

NEW ENGLAND CONSERVATION WILDLIFE SEED MIX AS PREPARED BY:  
NEW ENGLAND WETLAND PLANTS, INC  
820 WEST STREET, AMHERST, MA 01002  
PHONE: 413-548-8000  
EMAIL: INFO@NEWPC.COM  
WEBSITE: WWW.NEWP.COM

APPLICATION RATE: 26LBS/ACRE | 1750 SQ FT/LB  
MINIMUM ORDER: 2 LBS

SPECIES: VIRGINIA WILD RYE (Elymus virginicus), LITTLE BLUESTEM (Schizachyrium scoparium), BIG BLUESTEM (Andropogon gerardii), RED FESCUE (Festuca rubra), SWITCH GRASS (Panicum virgatum), PARTRIDGE PEA (Chamaecrista fasciculata), PANICLEDLEAF TICK TREFOIL (Desmodium paniculatum), INDIAN GRASS (Sorghastrum nutans), BLUE VERVAIN (Verbena hastata), BUTTERFLY MILKWEED (Asclepias tuberosa), BLACK EYED SUSAN (Rudbeckia hirta), COMMON SNEEZEWEED (Helenium autumnale), HEATH ASTER (Aster pilosus/symphotrichum pilosum), EARLY GOLDENROD (Solidago juncea), UPLAND BENTGRASS (Agrostis perennans).

NEW ENGLAND CONSERVATION WILDLIFE SEED MIX SPECIFICATIONS

PLANT SCHEDULE					
CANOPY TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER
QP	6	QUERCUS PALUSTRIS	PIN OAK	2.5' CAL.	B88
EVERGREEN TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER
PS	6	PINUS STROBUS	WHITE PINE	6-8'	B88
ORNAMENTAL TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER
AC	2	AMELANCHIER CANADENSIS	CANADIAN SERVICEBERRY	2.5' CAL.	B88
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER
CA	6	CLETHRA ALNIFOLIA	SUMMERSWEET	30-36"	CONTAINER
COAM	3	CORNUS AMOMUM	SILKY DOGWOOD	3-4'	B88
CS	8	CORNUS SERICEA	RED TWIG DOGWOOD	30-36"	CONTAINER
IWB	7	ILEX VERTICILLATA	WINTERBERRY	30-36"	CONTAINER
LB	5	LINDERA BENZOIN	SPICEBUSH	30-36"	CONTAINER
VC	9	VACCINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	30-36"	CONTAINER
GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER
PVS	5	PANICUM VIRGATUM 'SHENANDOAH'	SHENANDOAH SWITCH GRASS	1 GAL.	CONTAINER

**OWNER MAINTENANCE RESPONSIBILITIES**

UPON OWNERS (OR OWNER CONTRACTORS) COMPLETION OF LANDSCAPING WORK, THE OWNER IS FULLY RESPONSIBLE FOR ALL FUTURE MAINTENANCE, CARE, UNKIP, WATERING, AND TRIMMING OF ALL INSTALLED VEGETATION PLANTS, TREES, BUSHES, SHRUBS, GRASSES, ORNAMENTAL PLANTS AND FLOWERS, FLOWERS, GROUND COVER, AND LANDSCAPING, INCLUDING ALL LANDSCAPE ISLANDS AND AREAS ADJACENT OR PART OF THE LANDSCAPED AREAS. THIS RESPONSIBILITY INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:

- TREES ADJACENT TO WALKWAYS AND AREAS OF PEDESTRIAN TRAFFIC MUST BE MAINTAINED TO ASSURE THAT ANY BRANCHES MUST BE LIMBED UP TO A CLEARANCE HEIGHT OF 7 FT. (FROM ALL PAVED, TRAVELED SURFACES), OR AS OTHERWISE INDICATED ON THE PLANS.
- TREES WITHIN VEHICULAR SIGHT LINES, AS ILLUSTRATED ON THE LANDSCAPE PLAN, ARE TO BE TRIMMED TO A CLEARANCE HEIGHT OF 7 FT. (FROM ALL PAVED, TRAVELED SURFACES), OR AS OTHERWISE INDICATED ON THE PLANS.
- VEGETATIVE GROUND COVER, SHRUBS AND ORNAMENTAL PLANTS AND GRASSES MUST BE TRIMMED SO THAT NO PORTION OF THE PLANT EXCEEDS 30 INCHES ABOVE GRADE (OF ALL PAVED, TRAVELED SURFACES) ALONG AND WITHIN THE SIGHT LINES OF PARKING LOTS AND INGRESS/EGRESS WAYS.
- FALLEN PLANT FLOWERS, FRUIT, SEEDS AND DEBRIS DROPPINGS ARE TO BE REMOVED IMMEDIATELY FROM VEHICULAR AND PEDESTRIAN TRAFFIC AREAS TO PREVENT TRIPPING, SLIPPING OR ANY OTHER HAZARDS.

THESE REQUIREMENTS DO NOT AFFECT THE PLANT LIFE GUARANTEE THE LANDSCAPE CONTRACTOR IS REQUIRED TO PROVIDE.

**WETLAND BOUNDARIES AND RESTORATION AREAS SHALL BE SURROUNDED BY BIODEGRADABLE COMPOST WATTLES.**

**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**

**NEW ENGLAND CONSERVATION WILDLIFE 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 WATTLES AND SILT FENCE UNLESS OTHERWISE NOTED. SEE DETAILS FOR MORE INFORMATION.**

**BOHLER**  
SITE CIVIL AND CONSULTING ENGINEERING  
PROGRAM MANAGEMENT  
LANDSCAPE ARCHITECTURE  
SUSTAINABLE DESIGN  
PERMITTING SERVICES  
TRANSPORTATION SERVICES

**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
5	9/12/2023	PER CONS COM CONDITIONS	JDL	GD

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PROJECT No.: W201257  
DRAWN BY: EVD / CMC / OCR  
CHECKED BY: 04/13/2023  
DATE: GD  
CAD LID.: W201257-EROS-58

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

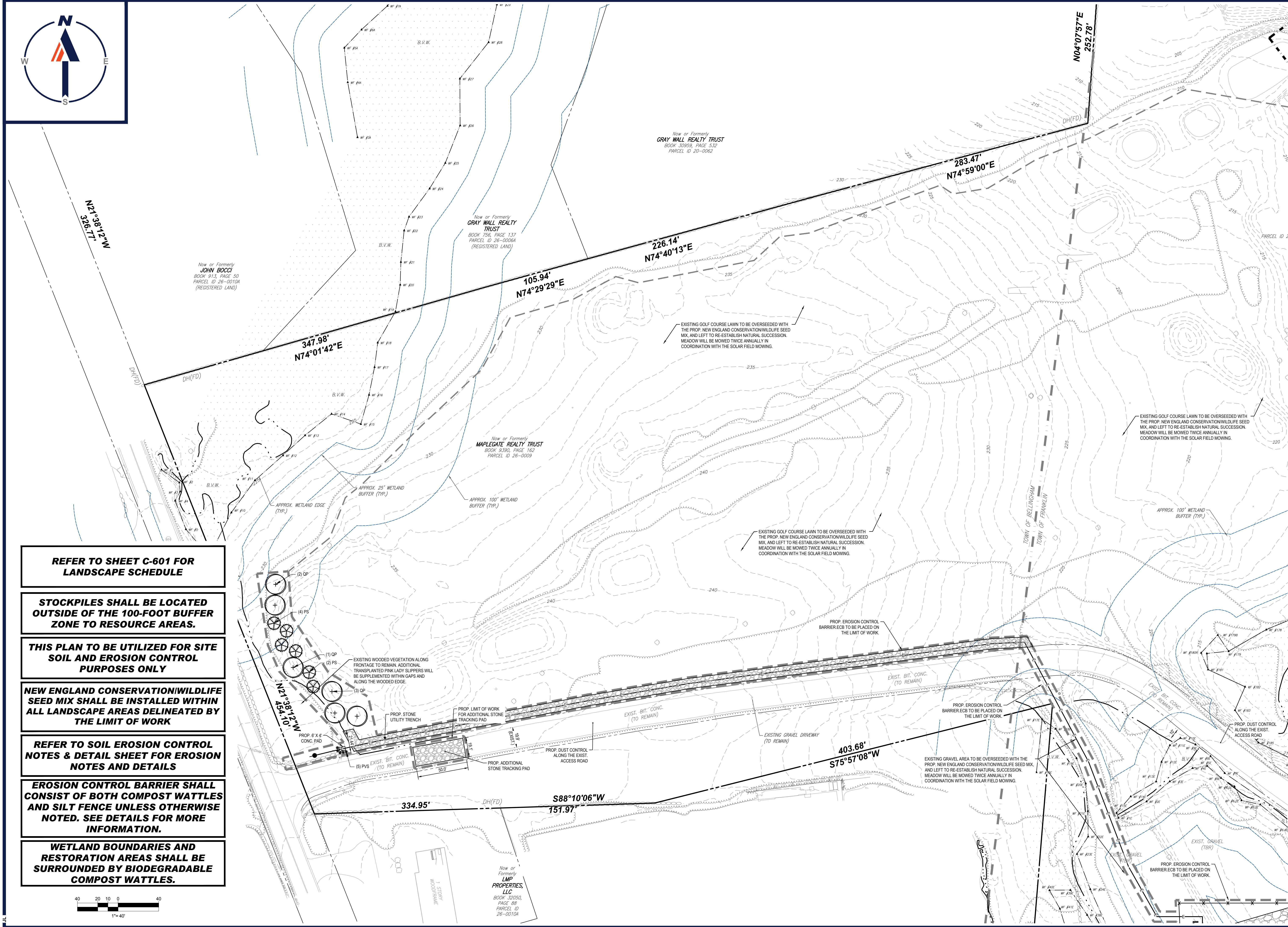
LOTS INCLUDED (PARCEL #): 239-009, F 239-010, G 239-010, H 239-010, I 239-010, 239-012, 237-36-37, 237-36, E 239-010, PORTION OF D 239-010, 26-0009  
160 MAPLE STREET, TOWN OF BELLINGHAM & FRANKLIN, NORFOLK COUNTY, MASSACHUSETTS

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



SHEET TITLE:  
**OVERALL SOIL EROSION & SEDIMENT CONTROL PLAN**  
SHEET NUMBER:  
**C-601**  
REVISION 5 - 9/12/2023





**REFER TO SHEET C-601 FOR LANDSCAPE SCHEDULE**

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

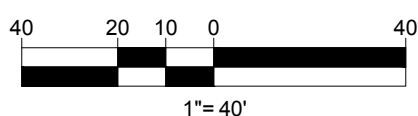
**THIS PLAN TO BE UTILIZED FOR SITE SOIL AND EROSION CONTROL PURPOSES ONLY**

**NEW ENGLAND CONSERVATION WILDLIFE 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 WATTLES AND SILT FENCE UNLESS OTHERWISE NOTED. SEE DETAILS FOR MORE INFORMATION.**

**WETLAND BOUNDARIES AND RESTORATION AREAS SHALL BE SURROUNDED BY BIODEGRADABLE COMPOST WATTLES.**



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 TRANSPORTATION SERVICES

**REVISIONS**

REV	DATE	COMMENT	DRAWN BY	CHECKED BY
1	06/07/2023	PLANNING BOARD COMMENTS	OCR	GD
2	07/10/2023	PLANNING BOARD COMMENTS	GD	OCR
3	7/19/2023	PER SURVEY UPDATES	AP	GD
4	8/01/2023	PARCEL AREA REFERENCES	AP	GD
5	9/12/2023	PER CONS COM CONDITIONS	JDL	GD

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PROJECT No.: W201257  
DRAWN BY: EVD / CMC / OCR  
CHECKED BY: GD  
DATE: 04/13/2023  
CAD ID: W201257-EROS-58

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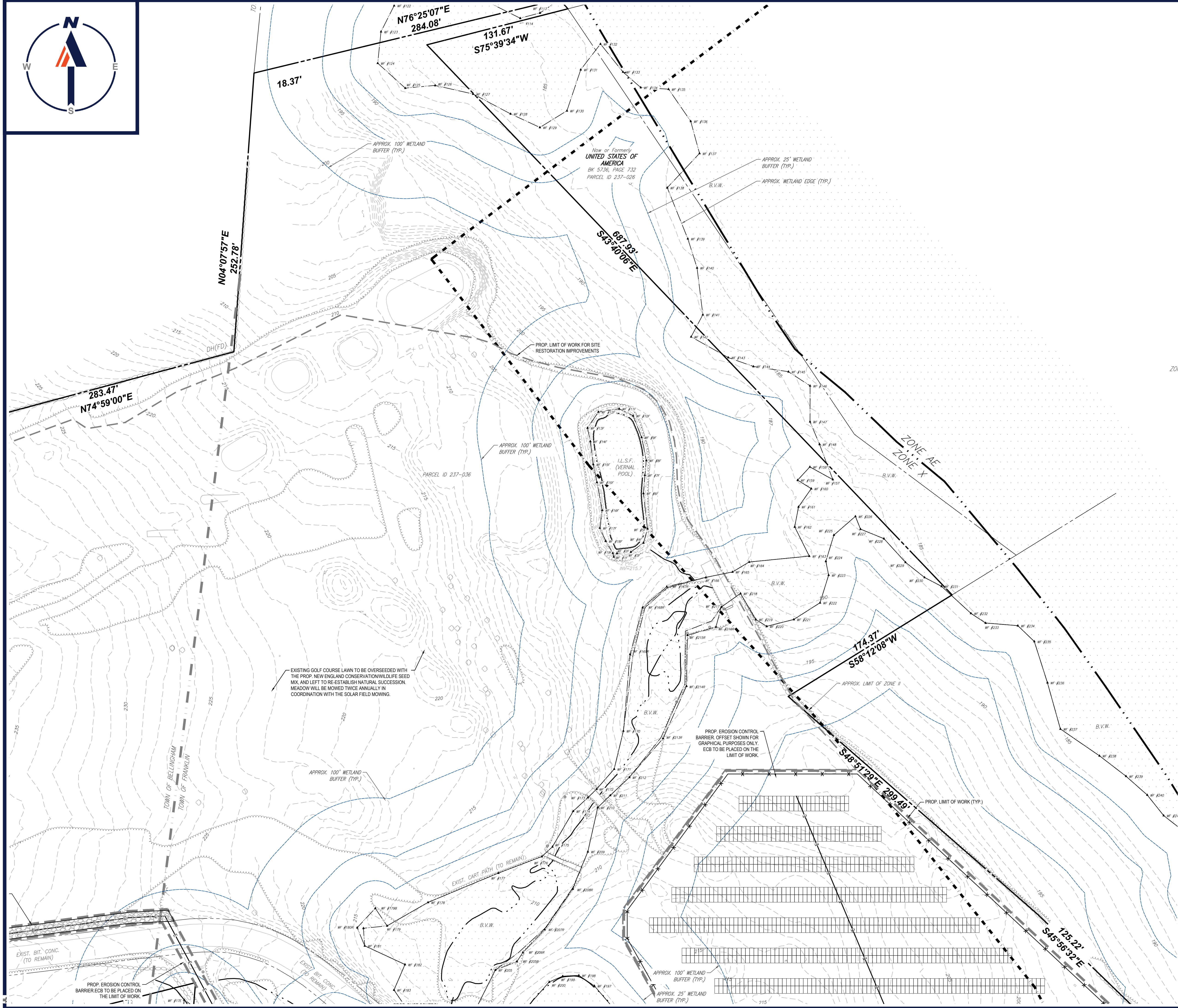
SHEET TITLE:  
**SOIL EROSION & SEDIMENT CONTROL PLAN A**

SHEET NUMBER:  
**C-602**

REVISION 5 - 9/12/2023

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ZONE II

ZONE AE  
ZONE X

**REFER TO SHEET C-601 FOR  
LANDSCAPE SCHEDULE**

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

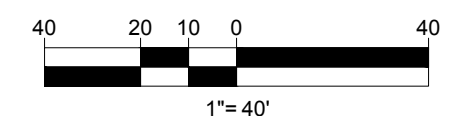
**THIS PLAN TO BE UTILIZED FOR SITE  
SOIL AND EROSION CONTROL  
PURPOSES ONLY**

**NEW ENGLAND CONSERVATION WILDLIFE  
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  
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AND SILT FENCE UNLESS OTHERWISE  
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INFORMATION.**

**WETLAND BOUNDARIES AND  
RESTORATION AREAS SHALL BE  
SURROUNDED BY BIODEGRADABLE  
COMPOST WATTLES.**



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**REVISIONS**

REV	DATE	COMMENT	CHECKED BY
1	06/07/2023	PLANNING BOARD COMMENTS	OCR
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3	7/19/2023	PER SURVEY UPDATES	AP
4	8/01/2023	PARCEL AREA REFERENCES	AP
5	9/12/2023	PER CONS COM CONDITIONS	JDL

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CHECKED BY: GD  
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CAD ID: W201257-EROS-58

**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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Matthew J. Mann  
REGISTERED PROFESSIONAL ARCHITECT

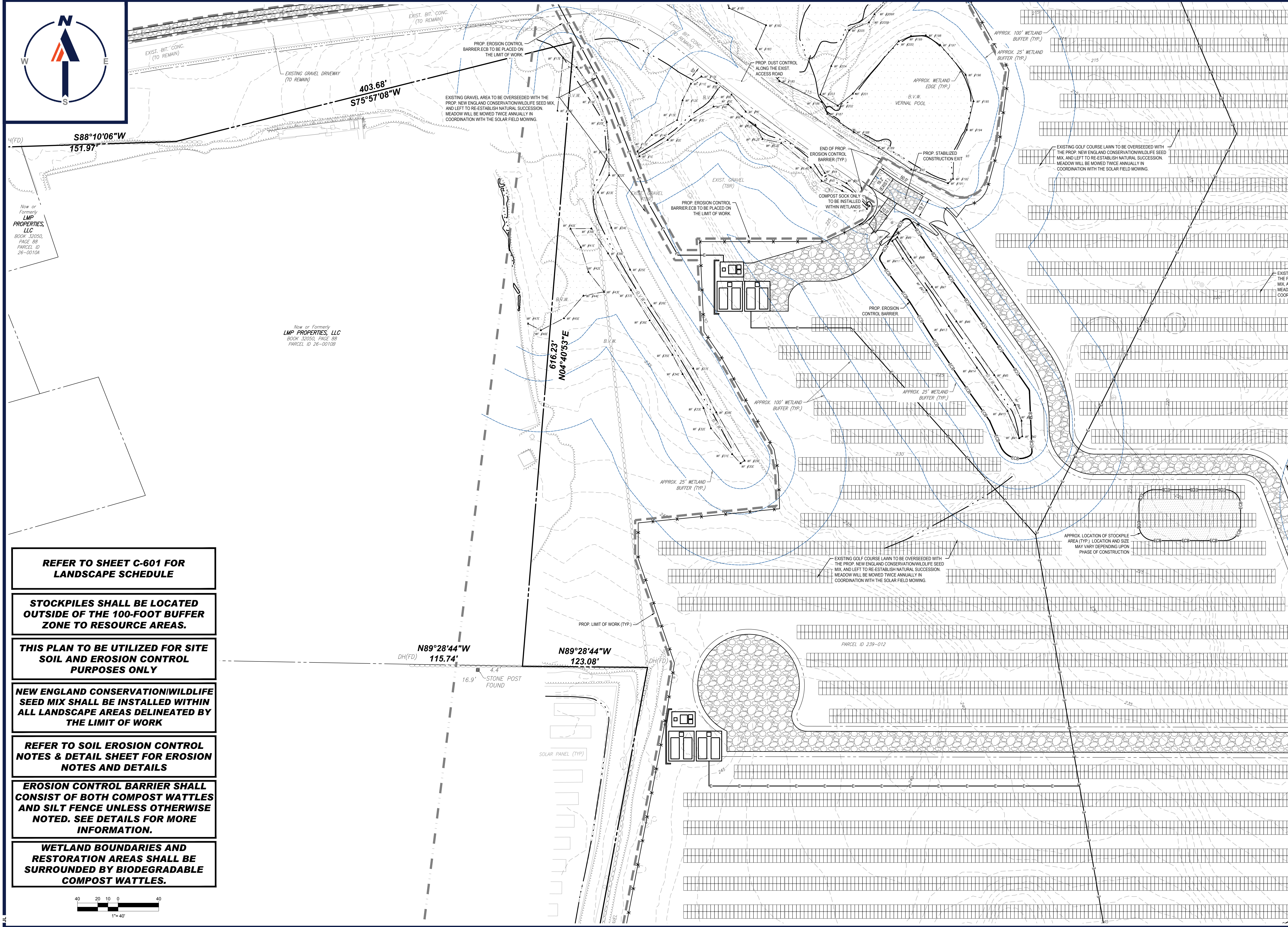
SHEET TITLE:  
**SOIL EROSION  
& SEDIMENT  
CONTROL  
PLAN B**

SHEET NUMBER:  
**C-603**

REVISION 5 - 9/12/2023

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S88°10'06"W  
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403.68'  
S75°57'08"W

616.23'  
N04°40'53"E

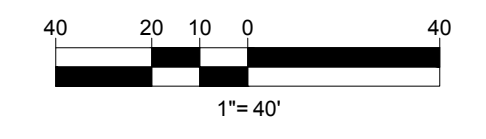
N89°28'44"W  
115.74'

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

- REFER TO SHEET C-601 FOR LANDSCAPE SCHEDULE**
- 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**
- NEW ENGLAND CONSERVATION WILDLIFE 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 WATTLES AND SILT FENCE UNLESS OTHERWISE NOTED. SEE DETAILS FOR MORE INFORMATION.**
- WETLAND BOUNDARIES AND RESTORATION AREAS SHALL BE SURROUNDED BY BIODEGRADABLE COMPOST WATTLES.**



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LANDSCAPE ARCHITECTURE  
SUSTAINABLE DESIGN  
PERMITTING SERVICES  
TRANSPORTATION SERVICES

REVISIONS				
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CHECKED BY: GD  
DATE: 04/13/2023  
CAD ID: W201257-EROS-58

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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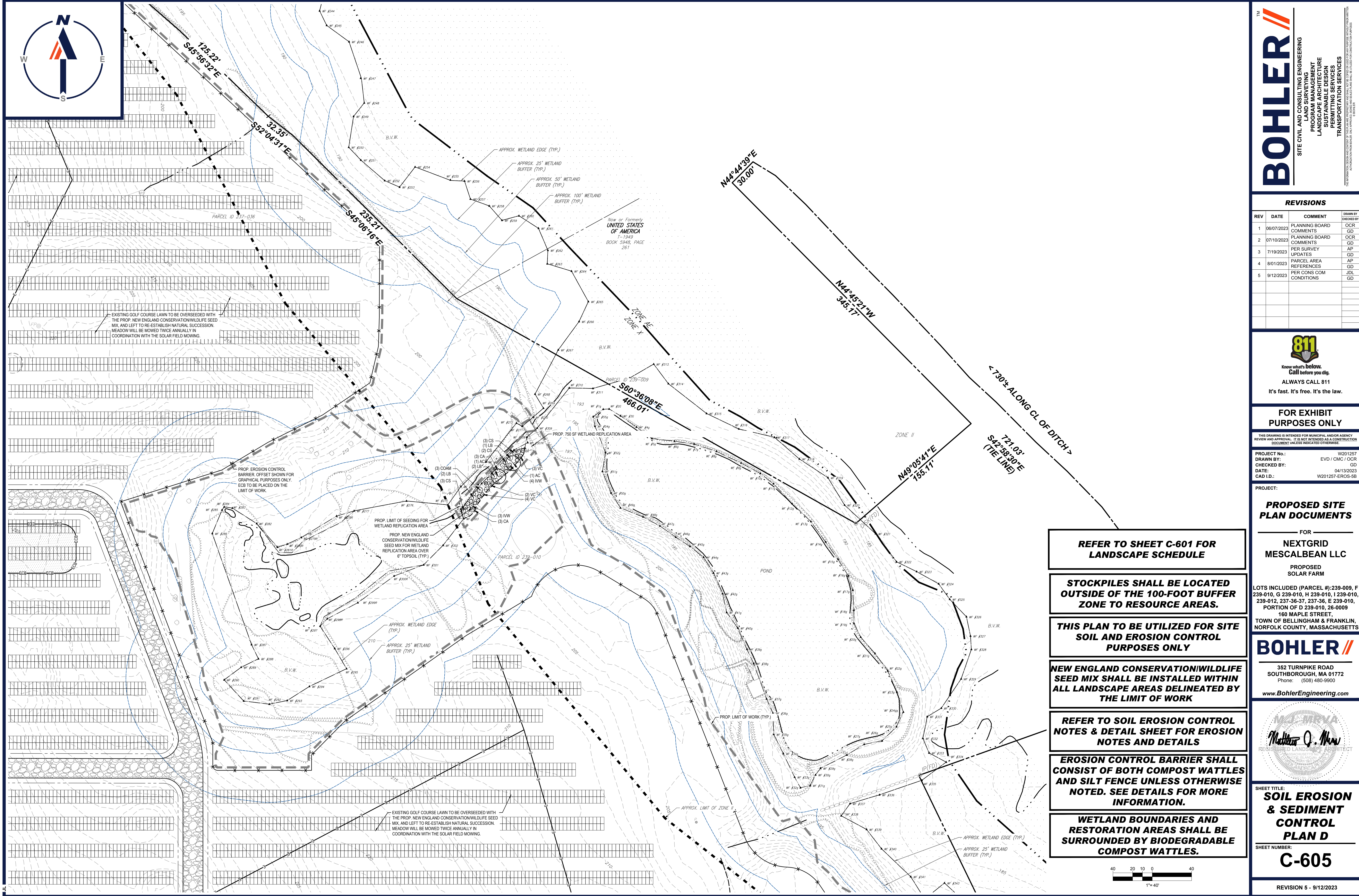
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SHEET TITLE:  
**SOIL EROSION & SEDIMENT CONTROL PLAN C**  
SHEET NUMBER:  
**C-604**  
REVISION 5 - 9/12/2023

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 PROGRAM MANAGEMENT  
 LANDSCAPE ARCHITECTURE  
 SUSTAINABLE DESIGN  
 PERMITTING SERVICES  
 TRANSPORTATION SERVICES

**REVISIONS**

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2	07/10/2023	PLANNING BOARD COMMENTS	OCR
3	7/19/2023	PER SURVEY UPDATES	AP
4	8/01/2023	PARCEL AREA REFERENCES	AP
5	9/12/2023	PER CONS COM CONDITIONS	JDL

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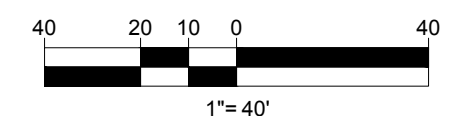
PROJECT No.: W201257  
 DRAWN BY: EVD / CMC / OCR  
 CHECKED BY: GD  
 DATE: 04/13/2023  
 CAD ID.: W201257-EROS-58

**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, J 239-010, K 239-010, L 239-010, M 239-010, N 239-010, O 239-010, P 239-010, Q 239-010, R 239-010, S 239-010, T 239-010, U 239-010, V 239-010, W 239-010, X 239-010, Y 239-010, Z 239-010, AA 239-010, AB 239-010, AC 239-010, AD 239-010, AE 239-010, AF 239-010, AG 239-010, AH 239-010, AI 239-010, AJ 239-010, AK 239-010, AL 239-010, AM 239-010, AN 239-010, AO 239-010, AP 239-010, AQ 239-010, AR 239-010, AS 239-010, AT 239-010, AU 239-010, AV 239-010, AW 239-010, AX 239-010, AY 239-010, AZ 239-010, BA 239-010, BB 239-010, BC 239-010, BD 239-010, BE 239-010, BF 239-010, BG 239-010, BH 239-010, BI 239-010, BJ 239-010, BK 239-010, BL 239-010, BM 239-010, BN 239-010, BO 239-010, BP 239-010, BQ 239-010, BR 239-010, BS 239-010, BT 239-010, BU 239-010, BV 239-010, BW 239-010, BX 239-010, BY 239-010, BZ 239-010, CA 239-010, CB 239-010, CC 239-010, CD 239-010, CE 239-010, CF 239-010, CG 239-010, CH 239-010, CI 239-010, CJ 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239-010, SJ 239-010, SK 239-010, SL 239-010, SM 239-010, SN 239-010, SO 239-010, SP 239-010, SQ 239-010, SR 239-010, SS 239-010, ST 239-010, SU 239-010, SV 239-010, SW 239-010, SX 239-010, SY 239-010, SZ 239-010, TA 239-010, TB 239-010, TC 239-010, TD 239-010, TE 239-010, TF 239-010, TG 239-010, TH 239-010, TI 239-010, TJ 239-010, TK 239-010, TL 239-010, TM 239-010, TN 239-010, TO 239-010, TP 239-010, TQ 239-010, TR 239-010, TS 239-010, TT 239-010, TU 239-010, TV 239-010, TW 239-010, TX 239-010, TY 239-010, TZ 239-010, UA 239-010, UB 239-010, UC 239-010, UD 239-010, UE 239-010, UF 239-010, UG 239-010, UH 239-010, UI 239-010, UJ 239-010, UK 239-010, UL 239-010, UM 239-010, UN 239-010, UO 239-010, UP 239-010, UQ 239-010, UR 239-010, US 239-010, UT 239-010, UU 239-010, UV 239-010, UW 239-010, UX 239-010, UY 239-010, UZ 239-010, VA 239-010, VB 239-010, VC 239-010, VD 239-010, VE 239-010, VF 239-010, VG 239-010, VH 239-010, VI 239-010, VJ 239-010, VK 239-010, VL 239-010, VM 239-010, VN 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- REFER TO SHEET C-601 FOR LANDSCAPE SCHEDULE**
- 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**
- NEW ENGLAND CONSERVATION/WILDLIFE 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 WATTLES AND SILT FENCE UNLESS OTHERWISE NOTED. SEE DETAILS FOR MORE INFORMATION.**
- WETLAND BOUNDARIES AND RESTORATION AREAS SHALL BE SURROUNDED BY BIODEGRADABLE COMPOST WATTLES.**



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

SHEET NUMBER:  
**C-605**

REVISION 5 - 9/12/2023

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Now or Formerly  
**LMP PROPERTIES, LLC**  
 BOOK 32050, PAGE 98  
 PARCEL ID 32-0007

**REFER TO SHEET C-601 FOR  
 LANDSCAPE SCHEDULE**

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

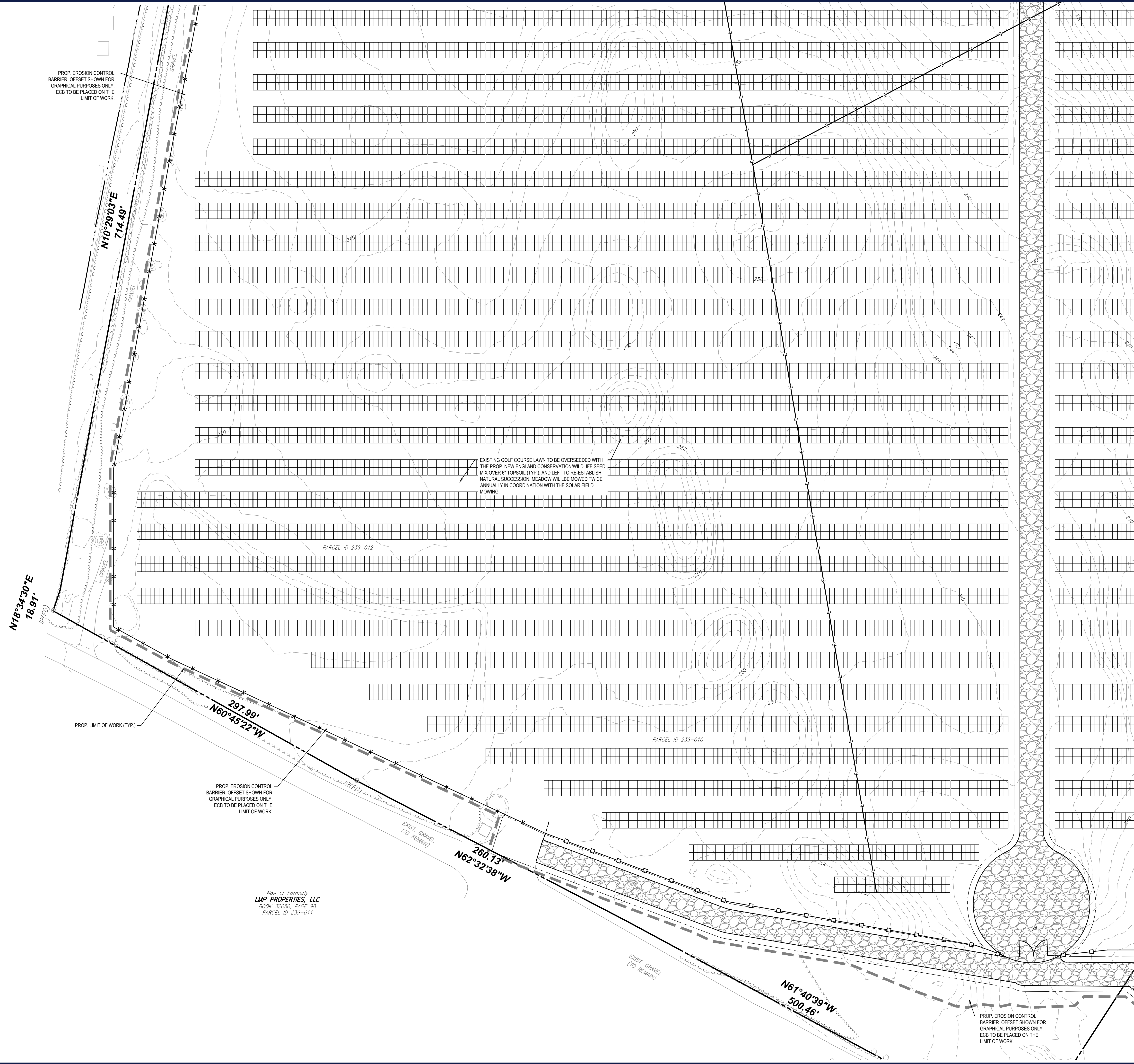
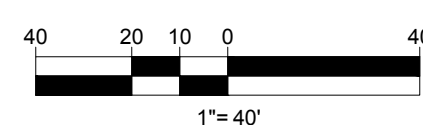
**THIS PLAN TO BE UTILIZED FOR SITE  
 SOIL AND EROSION CONTROL  
 PURPOSES ONLY**

**NEW ENGLAND CONSERVATION/WILDLIFE  
 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 WATTLES  
 AND SILT FENCE UNLESS OTHERWISE  
 NOTED. SEE DETAILS FOR MORE  
 INFORMATION.**

**WETLAND BOUNDARIES AND  
 RESTORATION AREAS SHALL BE  
 SURROUNDED BY BIODEGRADABLE  
 COMPOST WATTLES.**



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

**BOHLER**  
 SITE CIVIL AND CONSULTING ENGINEERING  
 PROGRAM MANAGEMENT  
 LANDSCAPE ARCHITECTURE  
 SUSTAINABLE DESIGN  
 PERMITTING SERVICES  
 TRANSPORTATION SERVICES

**REVISIONS**

REV	DATE	COMMENT	CHECKED BY	DRAWN 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
5	9/12/2023	PER CONS COM CONDITIONS	JDL	GD

**811**  
 Know what's below.  
 Call before you dig.  
 ALWAYS CALL 811  
 It's fast. It's free. It's the law.

**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 ID: W201257-EROS-58

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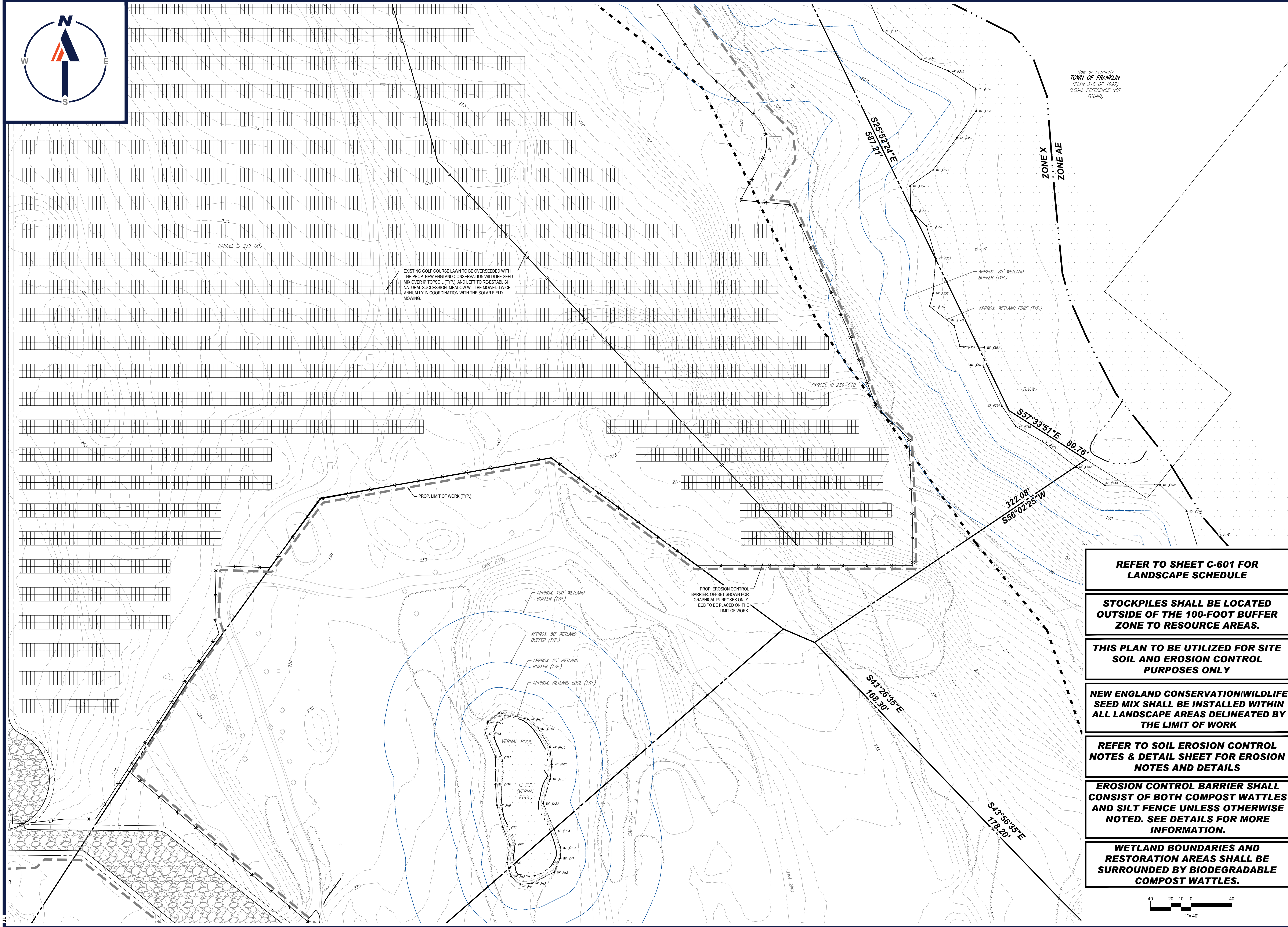
SHEET TITLE:  
**SOIL EROSION  
 & SEDIMENT  
 CONTROL  
 PLAN E**

SHEET NUMBER:  
**C-606**

REVISION 5 - 9/12/2023

P:\2023\2023\CAD\DRAWINGS\PLAN SET\CIVIL SITE PLAN\ANSI\2023\EROS-58-1\LAYOUT\C-606-EROS E





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

ZONE X  
ZONE AE

EXISTING GOLF COURSE LAWN TO BE OVERSEED WITH THE PROP. NEW ENGLAND CONSERVATION WILDLIFE SEED MIX OVER 6" TOPSOIL (TYP.) AND LEFT TO RE-ESTABLISH NATURAL SUCCESSION MEADOW WILL BE MOWED TWICE ANNUALLY IN COORDINATION WITH THE SOLAR FIELD MOWING.

PROP. LIMIT OF WORK (TYP.)

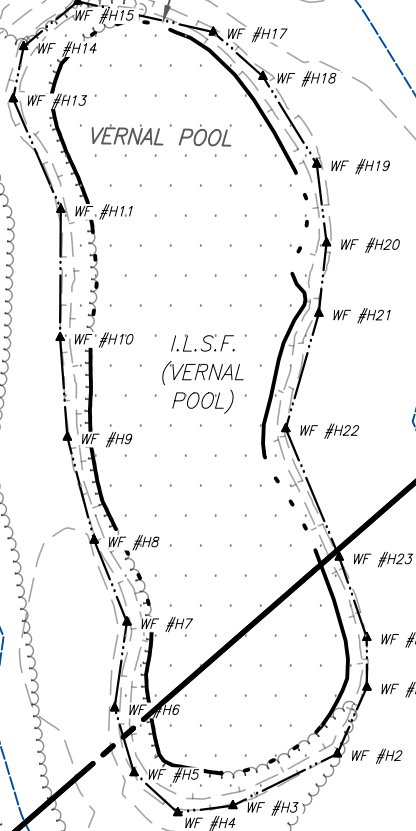
APPROX. 100' WETLAND BUFFER (TYP.)

APPROX. 50' WETLAND BUFFER (TYP.)

APPROX. 25' WETLAND BUFFER (TYP.)

APPROX. WETLAND EDGE (TYP.)

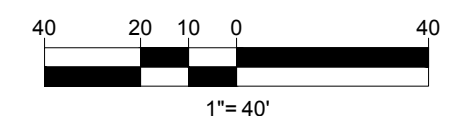
PROP. EROSION CONTROL BARRIER, OFFSET SHOWN FOR GRAPHICAL PURPOSES ONLY. ECB TO BE PLACED ON THE LIMIT OF WORK.



VERNAL POOL

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

- REFER TO SHEET C-601 FOR LANDSCAPE SCHEDULE**
- 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**
- NEW ENGLAND CONSERVATION WILDLIFE 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 WATTLES AND SILT FENCE UNLESS OTHERWISE NOTED. SEE DETAILS FOR MORE INFORMATION.**
- WETLAND BOUNDARIES AND RESTORATION AREAS SHALL BE SURROUNDED BY BIODEGRADABLE COMPOST WATTLES.**



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PROGRAM MANAGEMENT  
LANDSCAPE ARCHITECTURE  
SUSTAINABLE DESIGN  
PERMITTING SERVICES  
TRANSPORTATION SERVICES

**REVISIONS**

REV	DATE	COMMENT	CHECKED BY
1	06/07/2023	PLANNING BOARD COMMENTS	OCR
2	07/10/2023	PLANNING BOARD COMMENTS	OCR
3	7/19/2023	PER SURVEY UPDATES	AP
4	8/01/2023	PARCEL AREA REFERENCES	AP
5	9/12/2023	PER CONS COM CONDITIONS	JDL

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**FOR EXHIBIT PURPOSES ONLY**

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PROJECT: W201257  
DRAWN BY: EVD / CMC / OCR  
CHECKED BY: GD  
DATE: 04/13/2023  
CAD ID: W201257-EROS-58

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

SHEET NUMBER:  
**C-607**

REVISION 6 - 9/12/2023

P:\01\2013\7\CADD\DRAWINGS\PLAN SET\CIVIL SITE PLAN\W201257-EROS-58-LAYOUT1.CAD:EROS 6 F



**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 UP-SLOPE 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 STABILIZED 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 (108 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 SOIL MAY BE SUBSTITUTED FOR SEED WHERE SLOPES DO NOT EXCEED 2:1. SOIL 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.

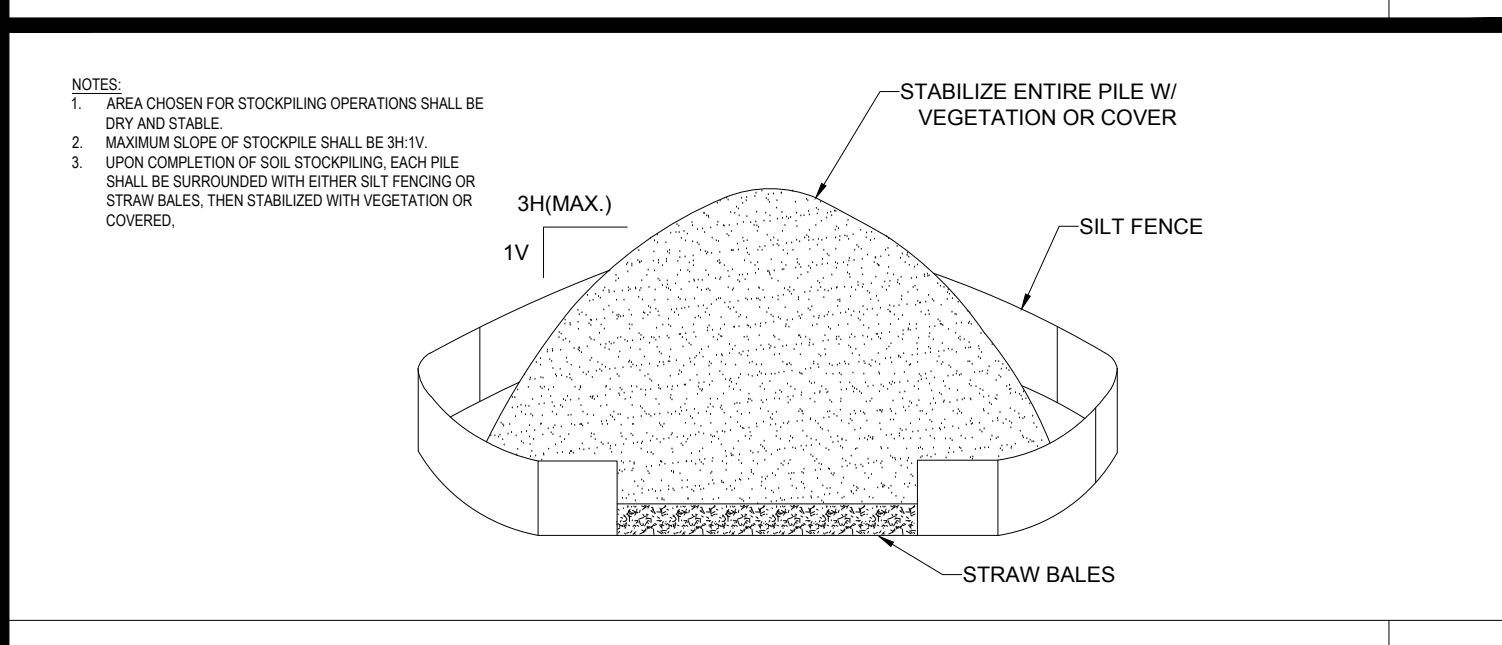
- EROSION CONTROL NOTES DURING WINTER CONSTRUCTION
- WINTER CONSTRUCTION PERIOD: NOVEMBER 1 THROUGH APRIL 15.
- WINTER EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT THE AMOUNT OF AREA OPEN AT ONE TIME IS MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE AND IN CONFORMANCE WITH THE STORMWATER POLLUTION PREVENTION 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 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**

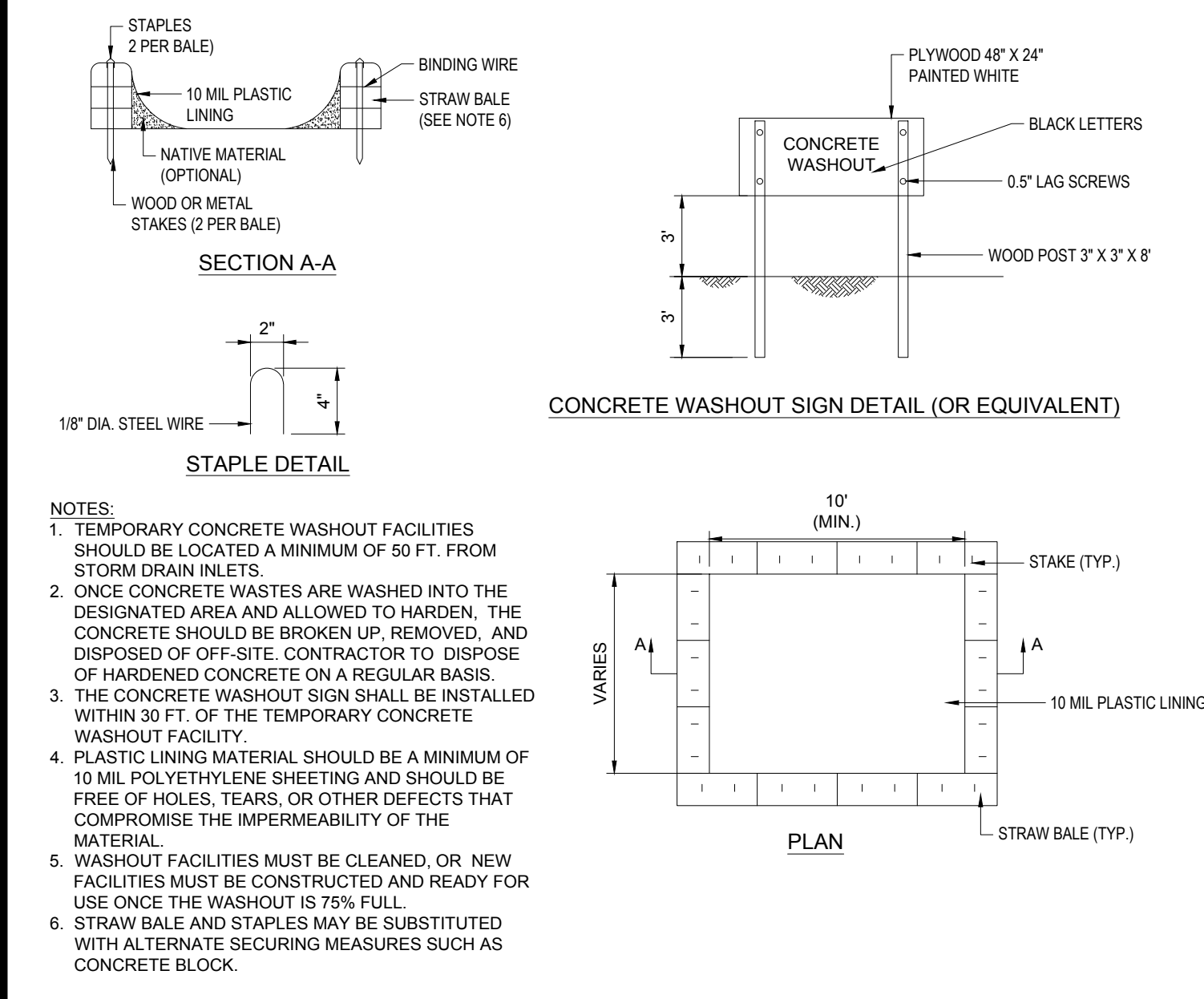
- THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES, IN THEIR ENTIRETY. THE CONTRACTOR MUST BE FAMILIAR WITH AND ACKNOWLEDGE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

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**TEMPORARY STOCKPILE**

N.T.S.



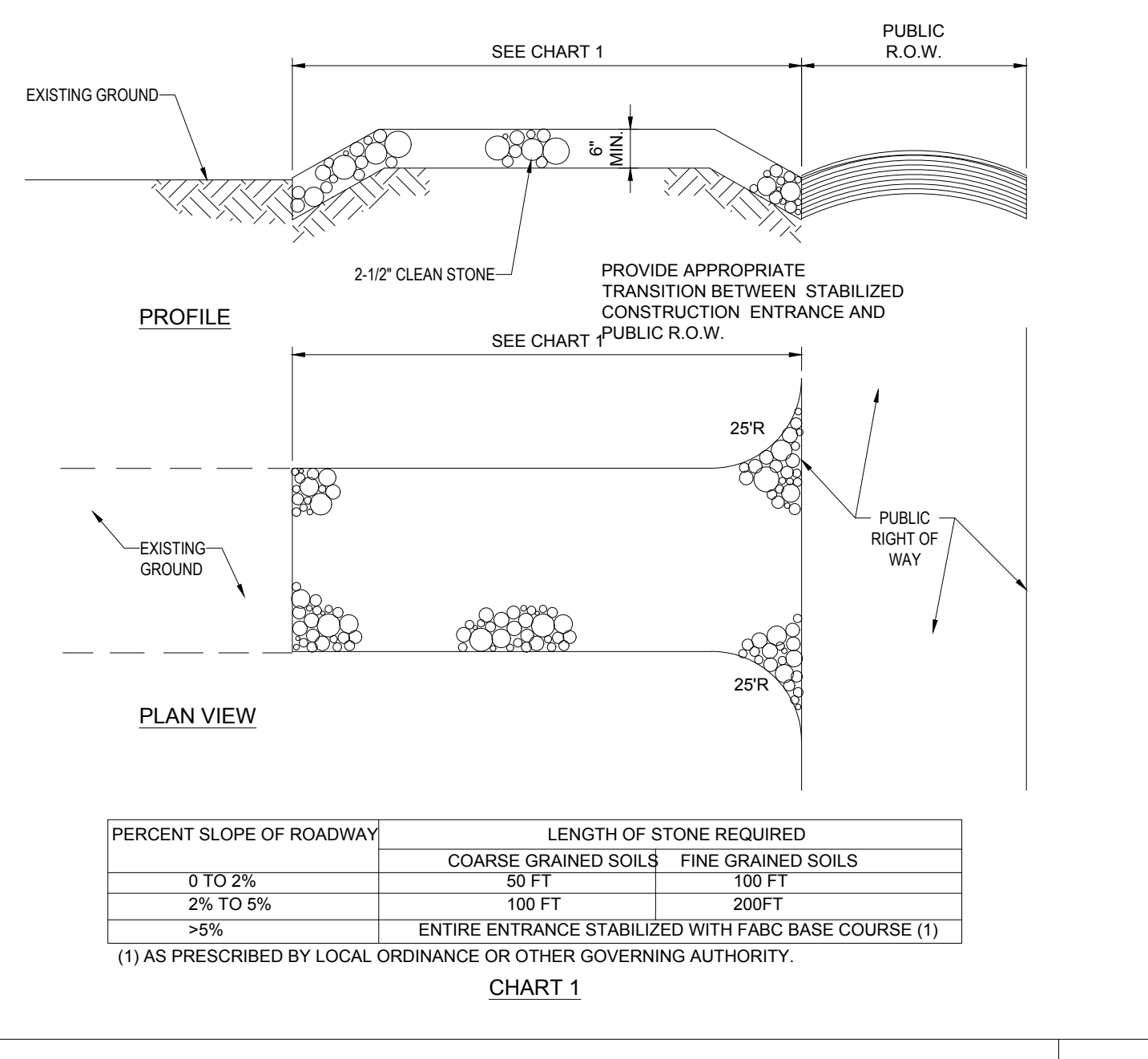
**CONCRETE WASTE MANAGEMENT AREA**

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

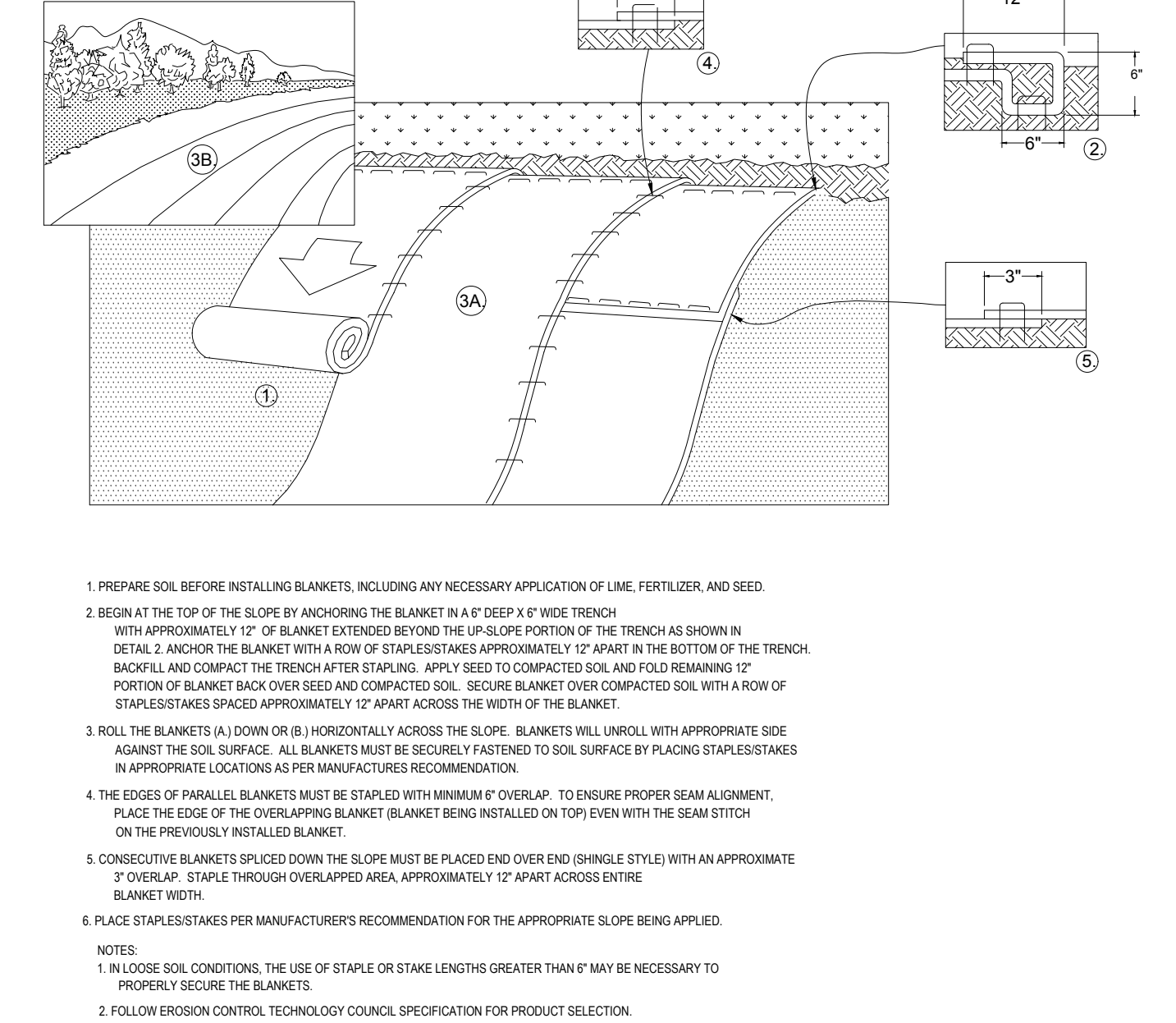
**RECOMMENDED CONSTRUCTION SEQUENCE**

N.T.S.



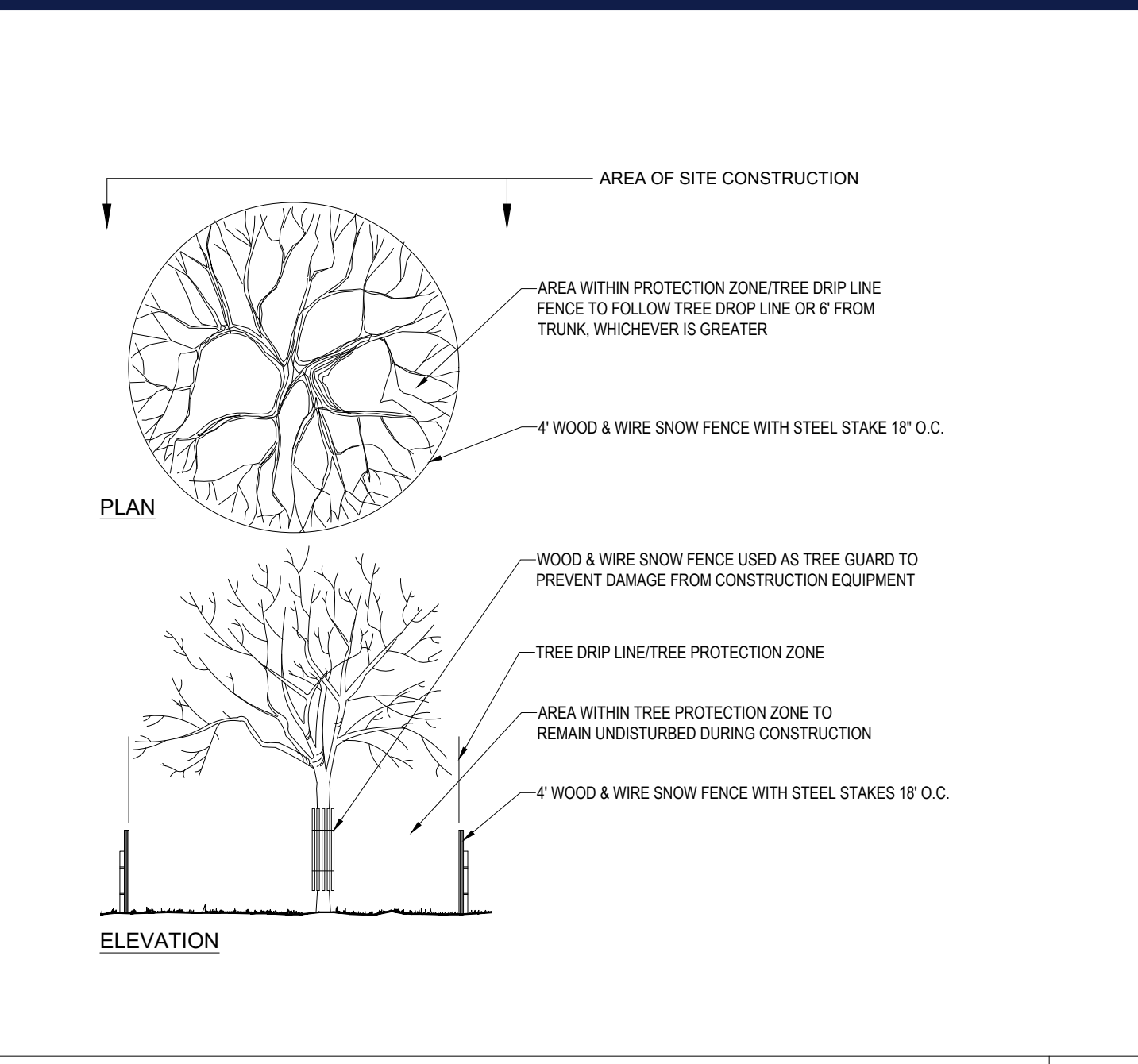
**STABILIZED CONSTRUCTION ENTRANCE**

N.T.S.



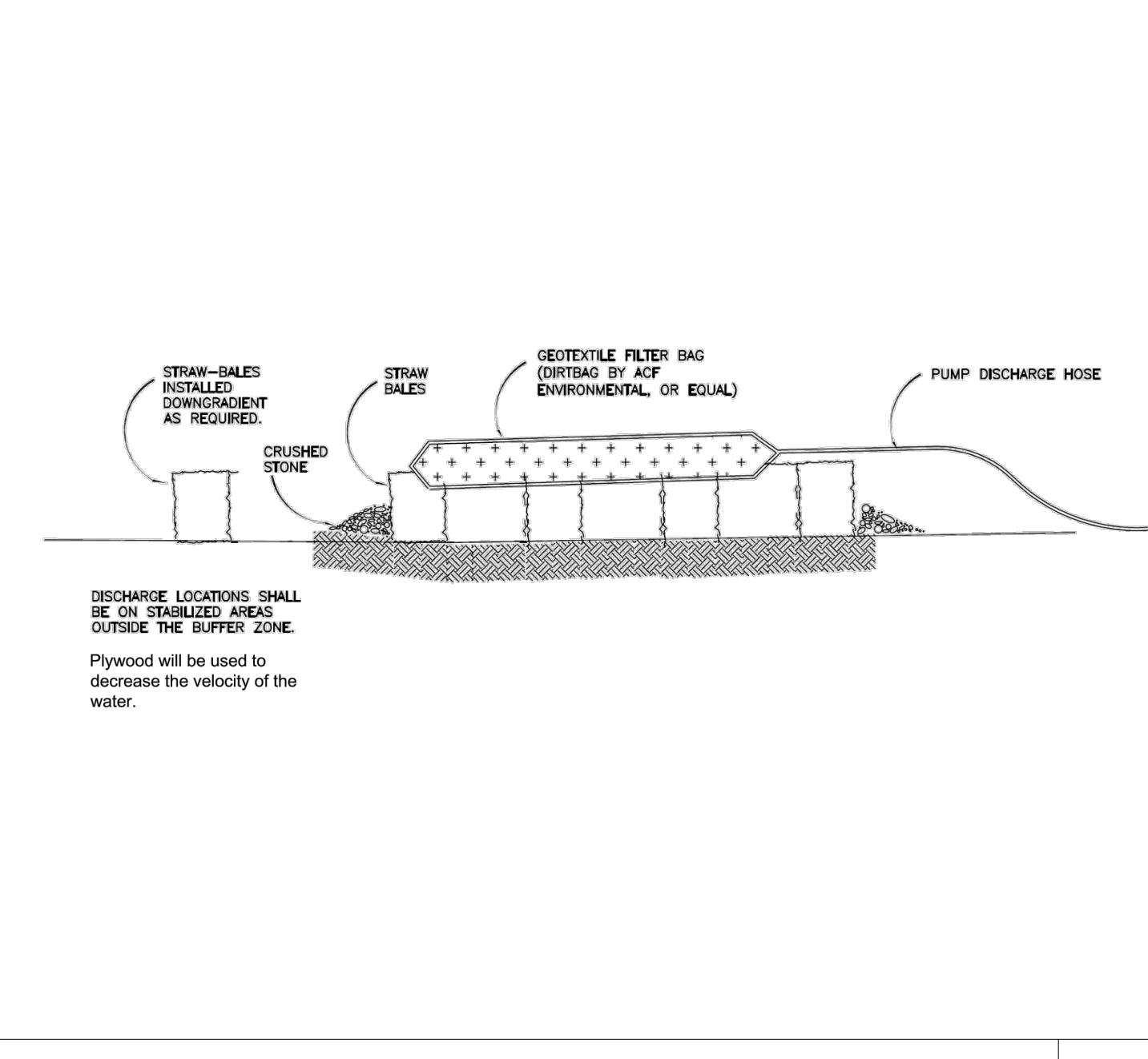
**EROSION CONTROL BLANKET 2:1 SLOPES (SLOPE INSTALLATION)**

N.T.S.



**TREE PROTECTION DURING SITE CONSTRUCTION**

N.T.S.



**DEWATERING GEOTEXTILE FILTER BAG DETAIL**

N.T.S.

PROPERTIES	TEST METHOD	UNITS	
		LOW TO MODERATE FLOW	HIGH FLOW
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS	
PUNCTURE	ASTM D-4632	20%	
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	0.65 SEC <sup>-1</sup>	

PROPERTIES	TEST METHOD	UNITS	
		MODERATE TO HIGH FLOW	LOW FLOW
GRAB TENSILE STRENGTH	ASTM D-4632	205 LBS	
PUNCTURE	ASTM D-4632	20%	
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 <sup>-1</sup>	

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

**FILTER SACS (GRADED INLETS)**

N.T.S.

**BOHLER**  
 SITE CIVIL AND CONSULTING ENGINEERING  
 PROGRAM MANAGEMENT  
 LANDSCAPE ARCHITECTURE  
 SUSTAINABLE DESIGN  
 PERMITTING SERVICES  
 TRANSPORTATION SERVICES

**REVISIONS**

REV	DATE	COMMENT	CHECKED BY
1	06/07/2023	PLANNING BOARD COMMENTS	OCR
2	07/10/2023	PLANNING BOARD COMMENTS	GD
3	7/19/2023	PER SURVEY UPDATES	GD
4	8/01/2023	PARCEL AREA REFERENCES	AP
5	9/12/2023	PER CONS COM CONDITIONS	JDL

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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  
 DATE: 04/13/2023  
 CAD LID: W201257-EROS-SB

**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

**EROSION & SEDIMENT CONTROL NOTES & DETAILS**

**C-608**

REVISION 5 - 9/12/2023

P:\2023\157\CADD\DRAWINGS\PLAN SET\EROSION\2023-EROS-SB.dwg - LAYOUT: C-608-ENG.DWG

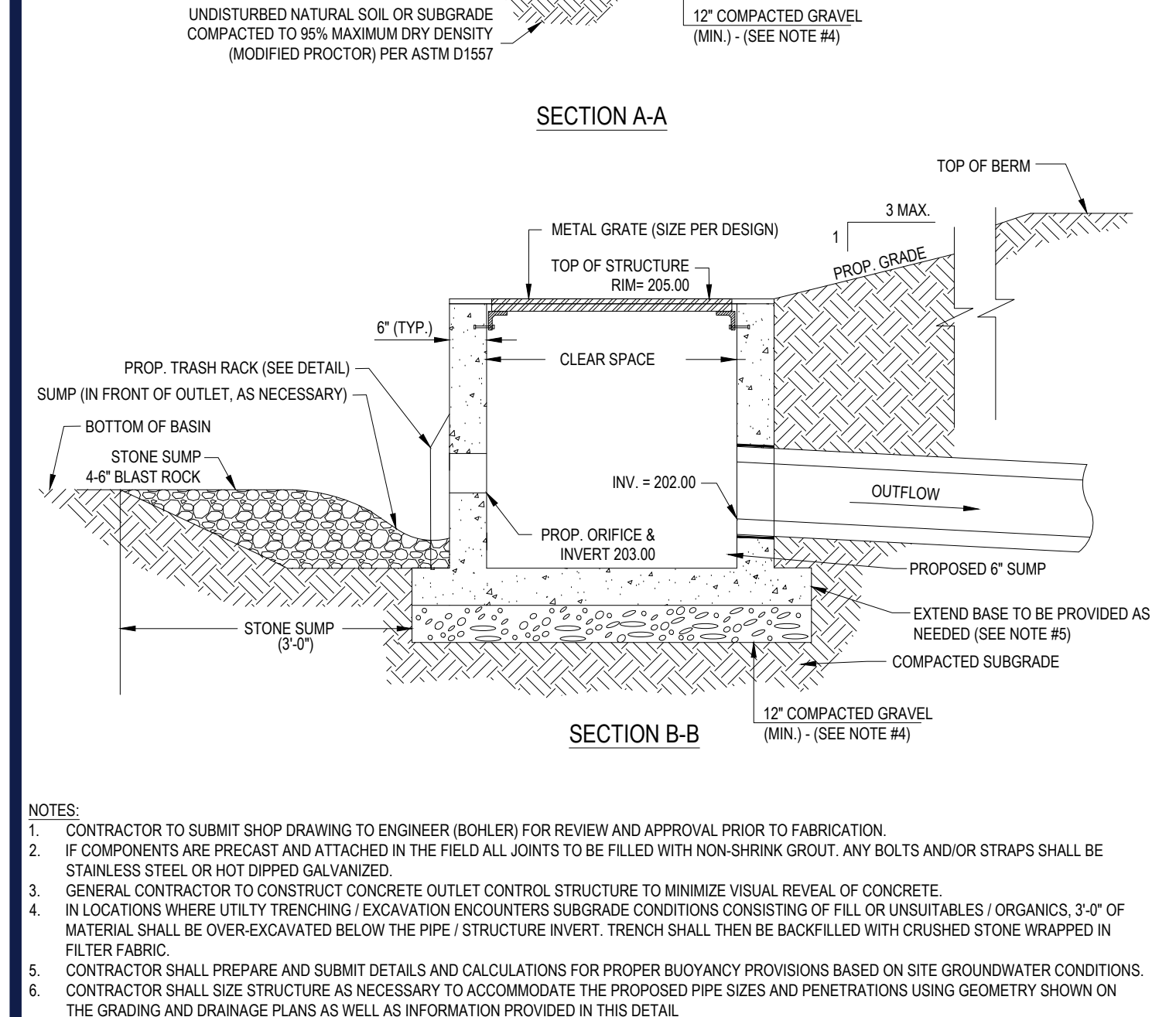
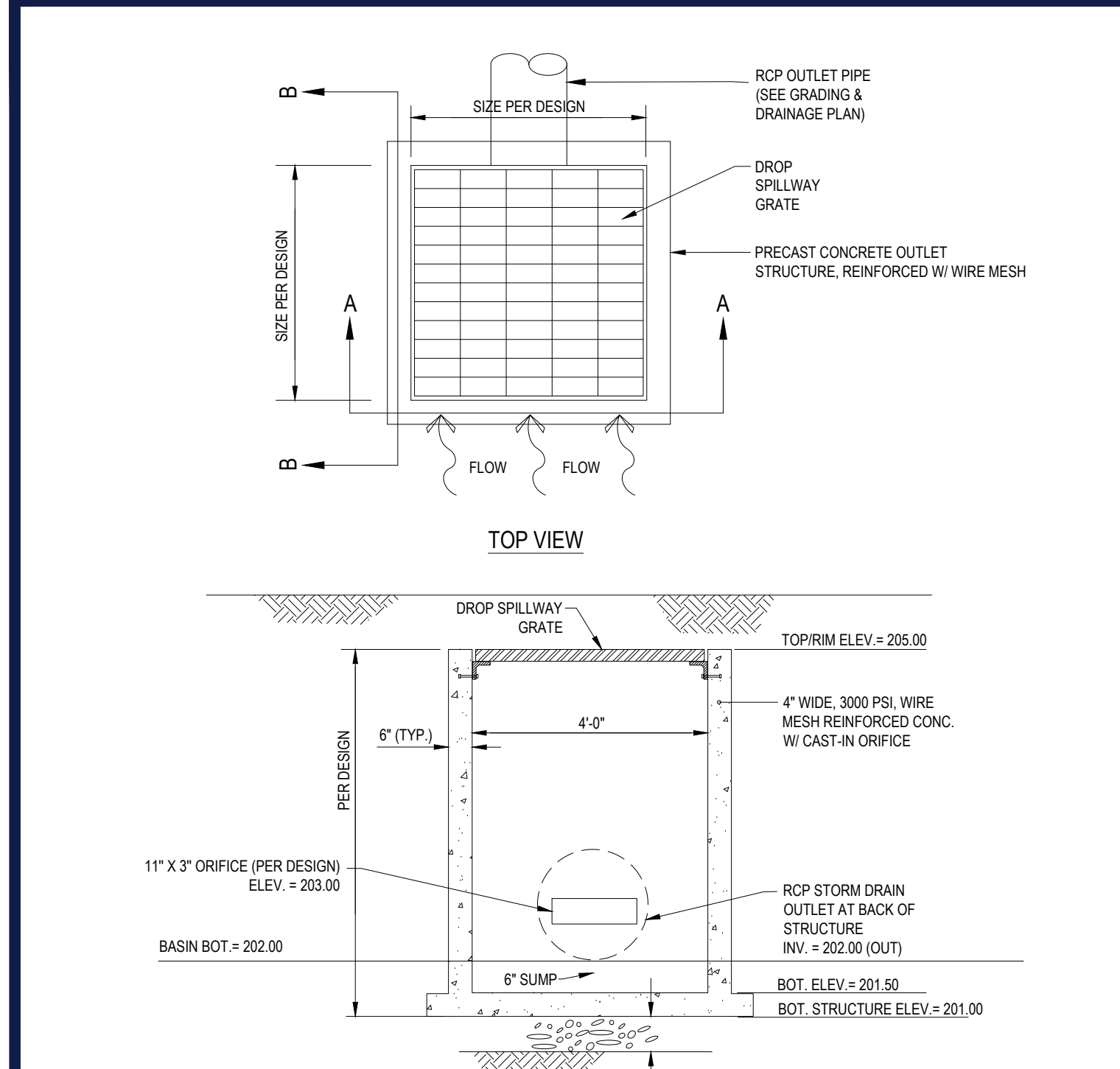




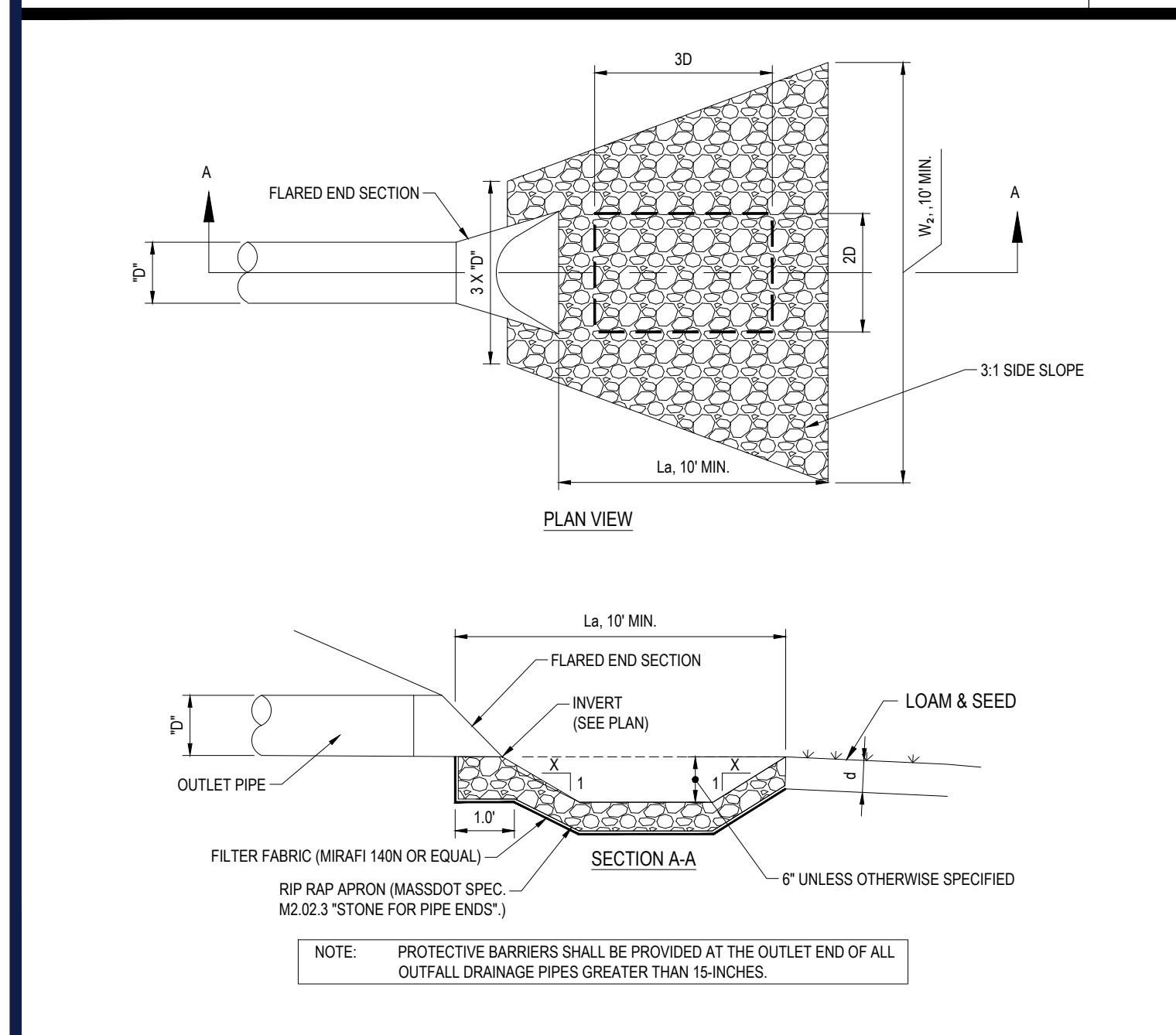




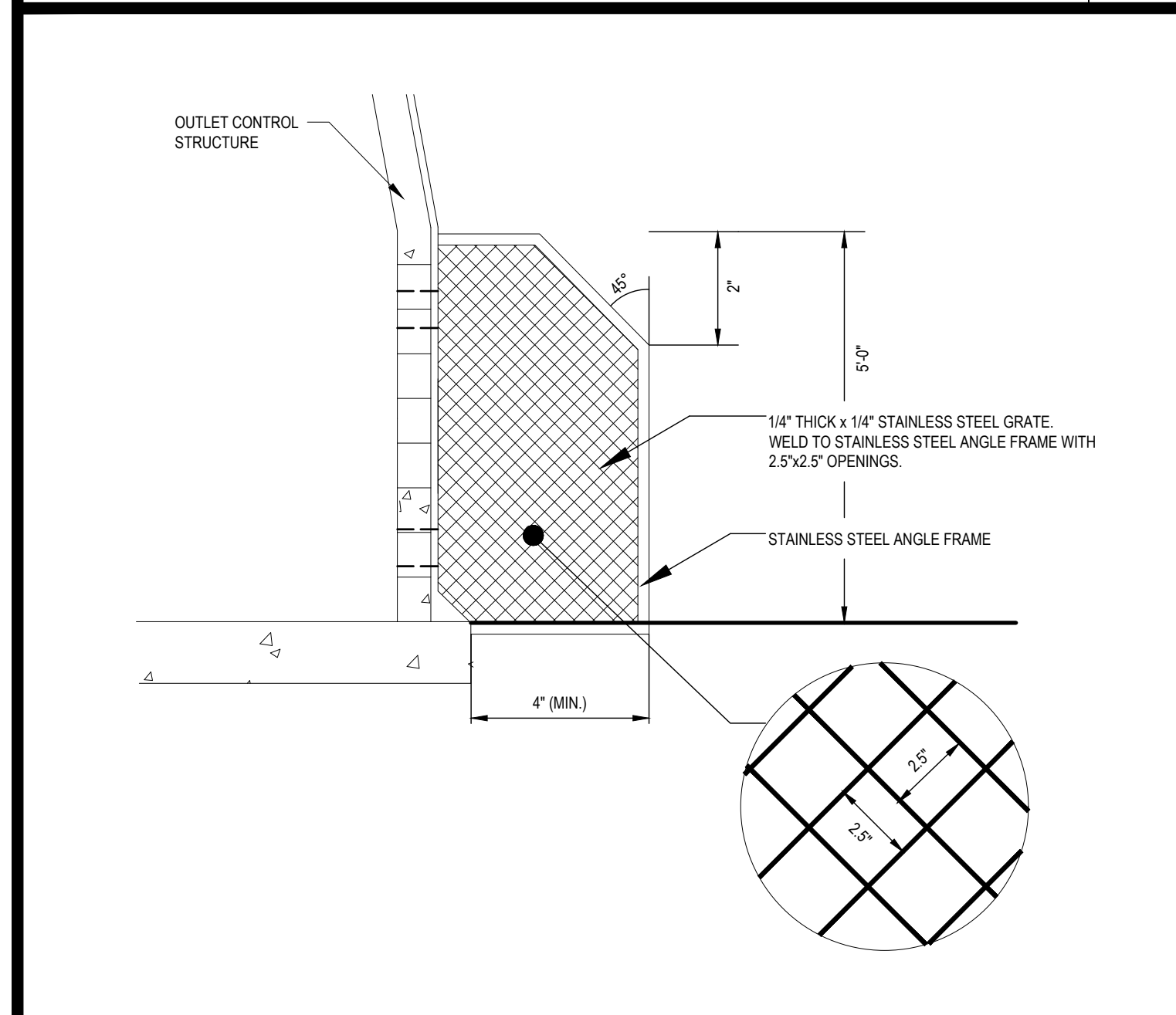
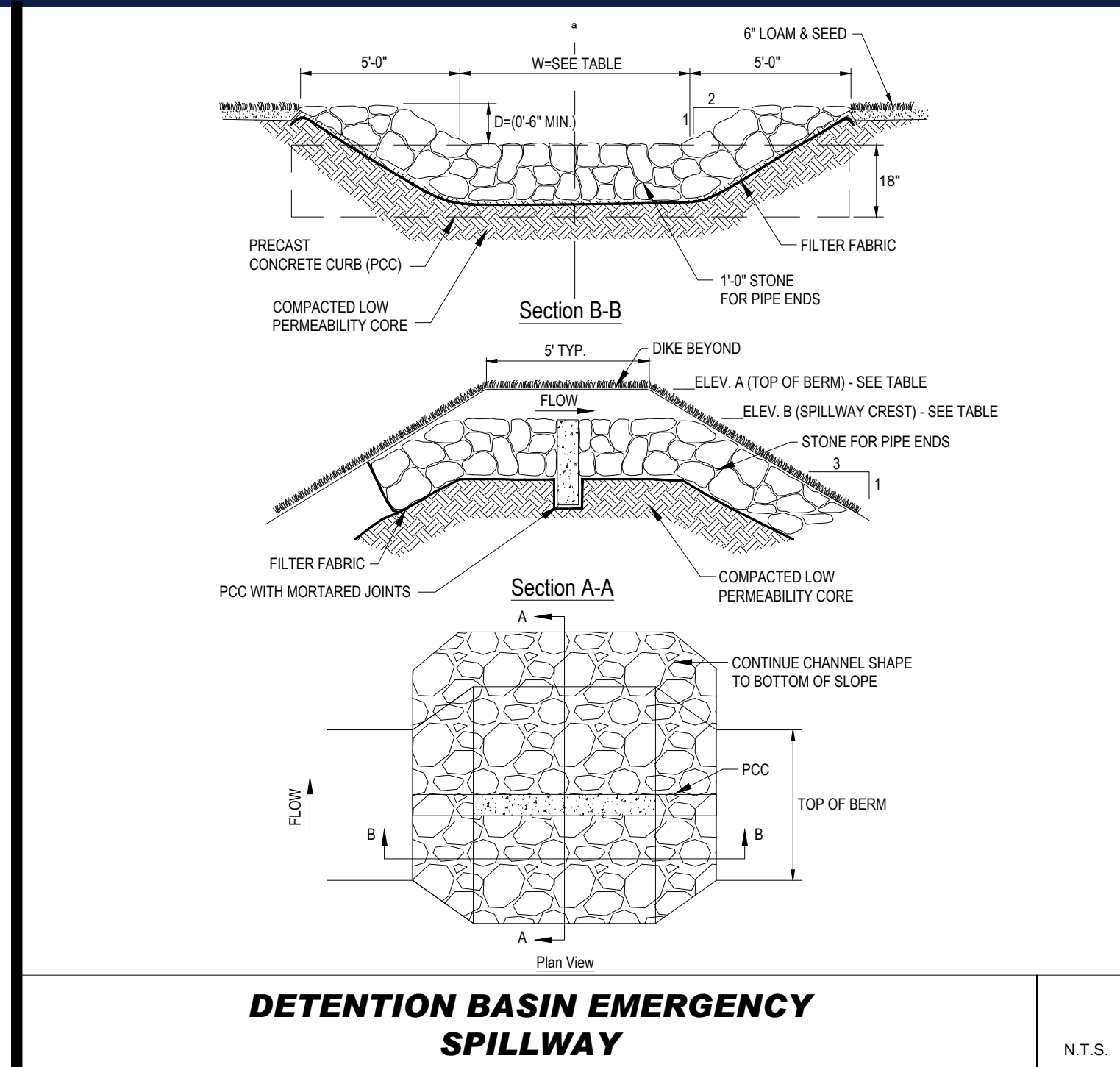




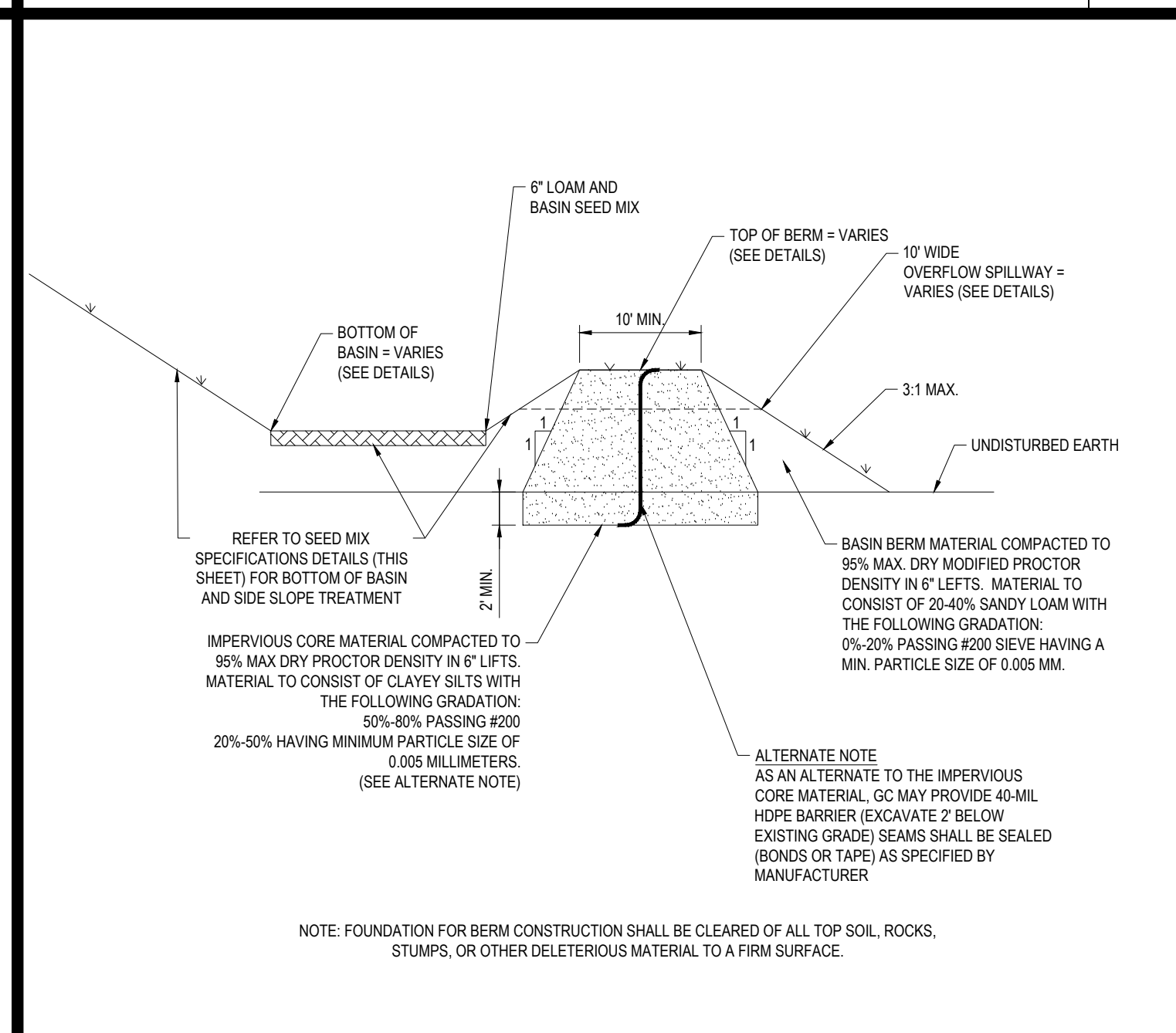
**TYPICAL SURFACE BASIN OUTLET CONTROL STRUCTURE DETAIL** N.T.S.



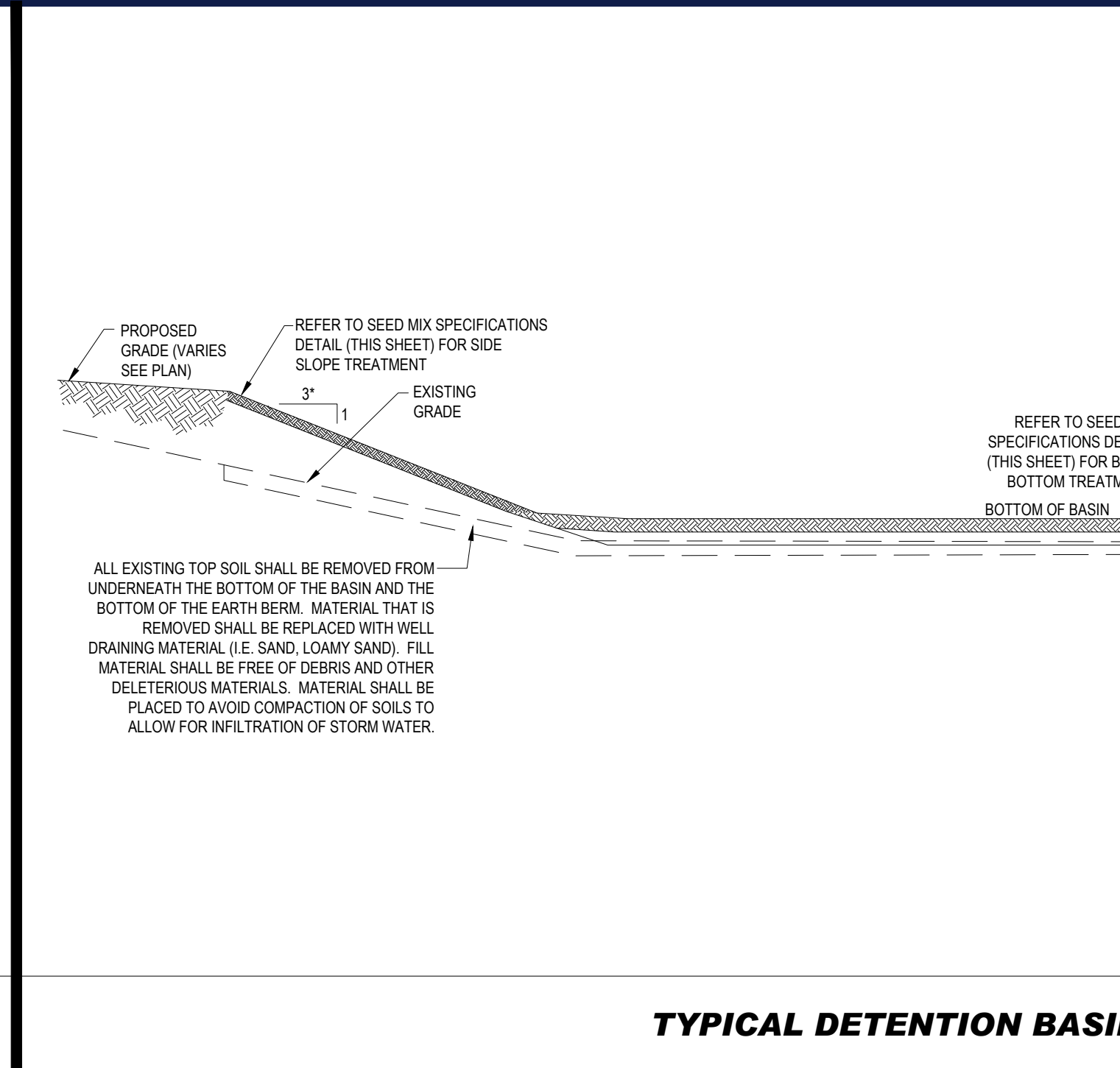
**FLARED END SECTION WITH RIP RAP APRON / SCOUR HOLE DETAIL** N.T.S.



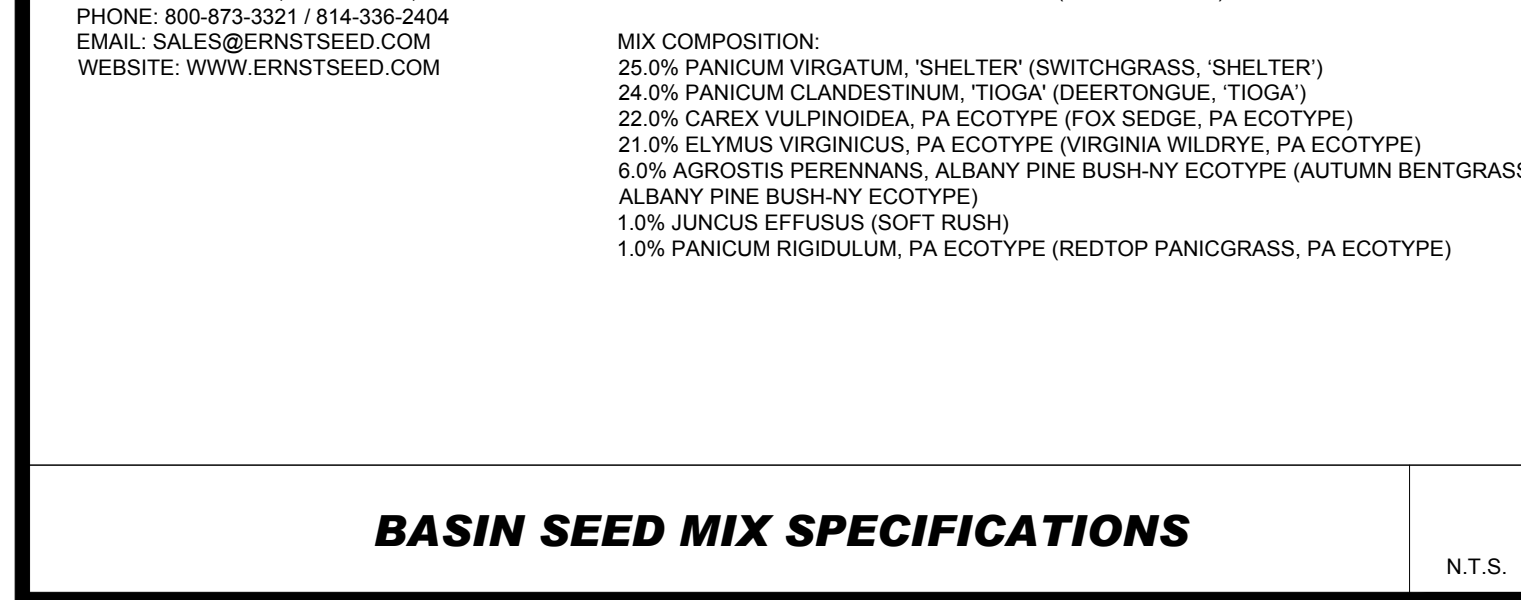
**TRASH RACK DETAIL** N.T.S.



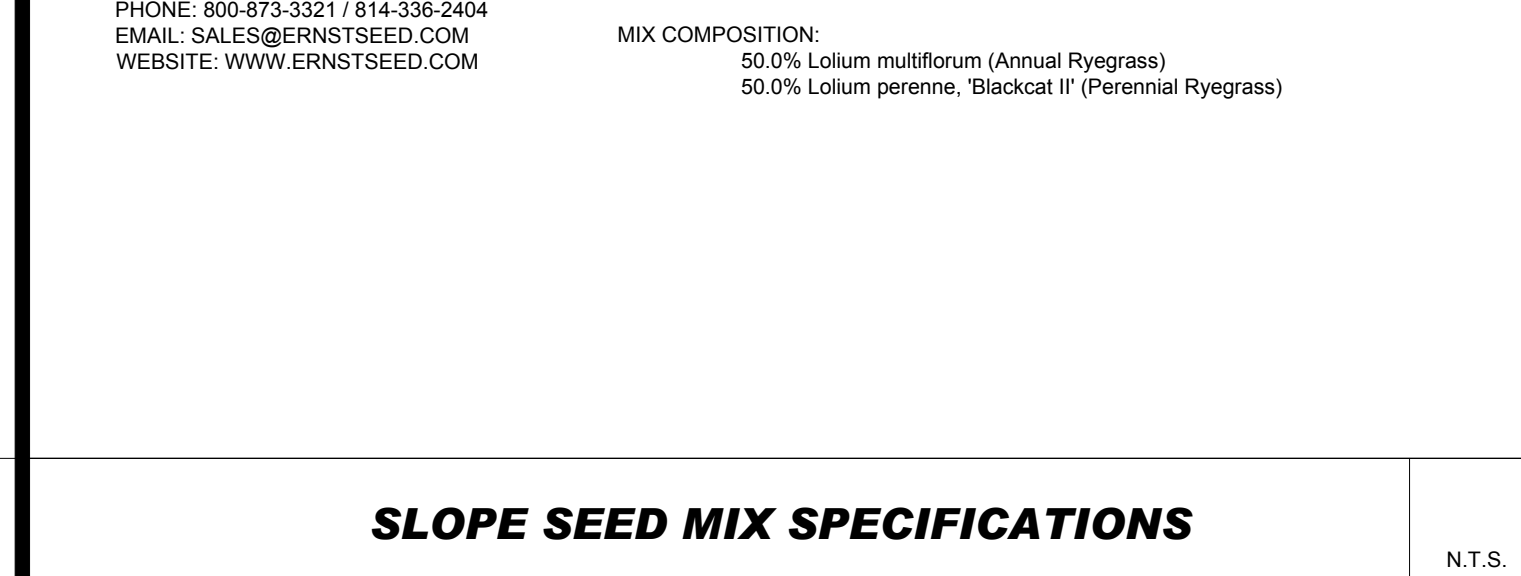
**BASIN IMPERVIOUS CORE DETAIL** N.T.S.



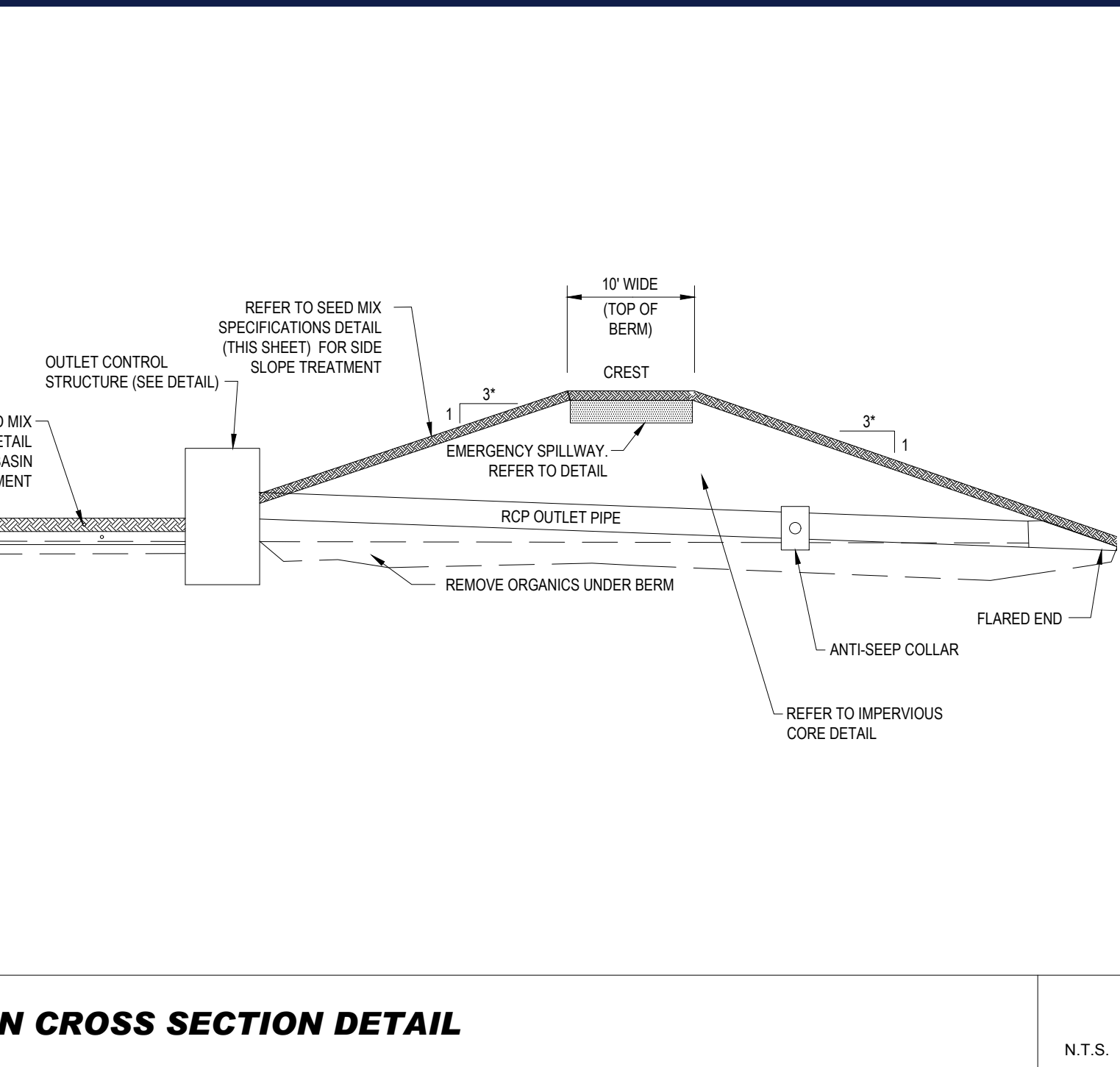
**TYPICAL DETENTION BASIN CROSS SECTION DETAIL** N.T.S.



**BASIN SEED MIX SPECIFICATIONS** N.T.S.



**SLOPE SEED MIX SPECIFICATIONS** N.T.S.



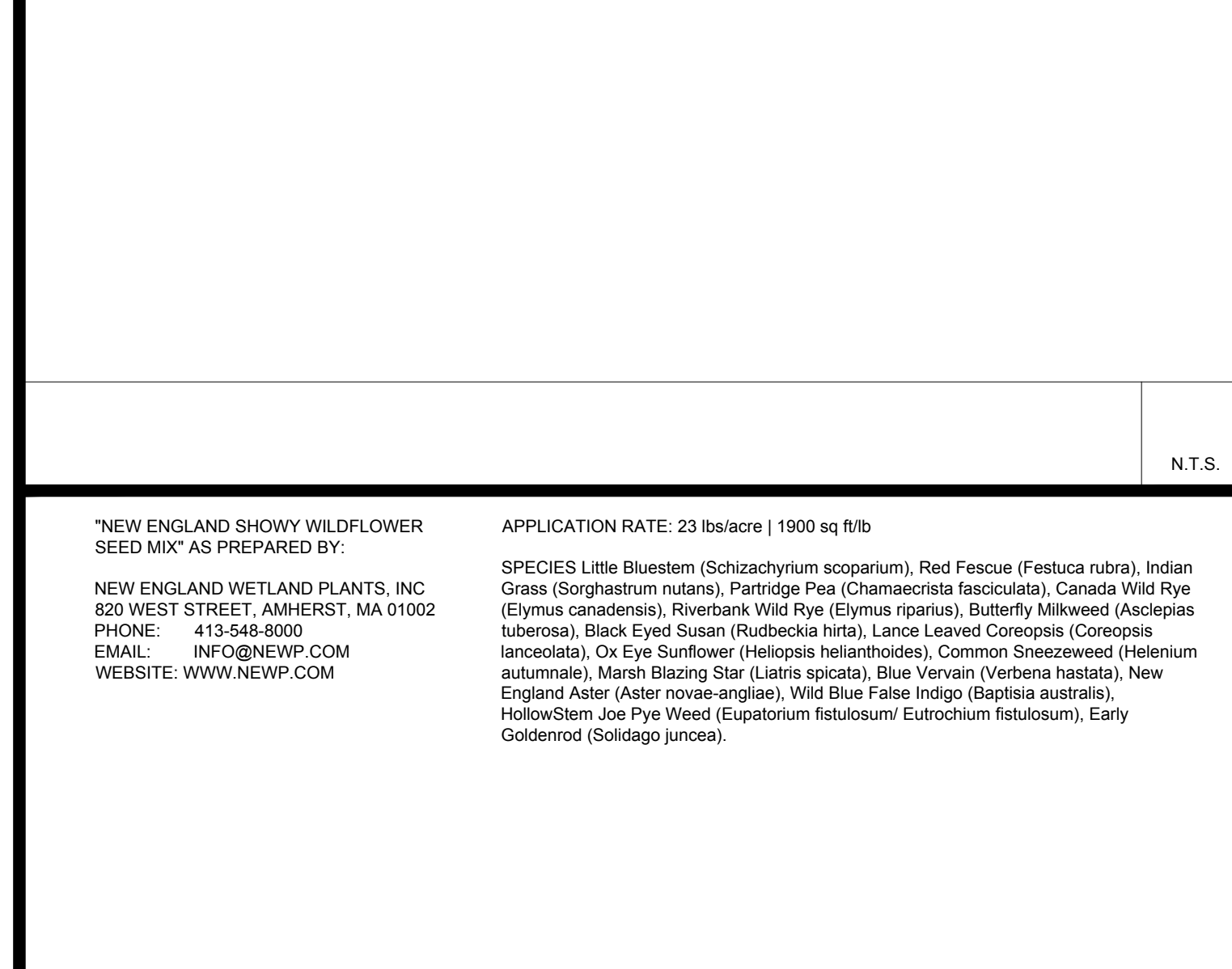
**NEW ENGLAND SHOWY WILDFLOWER SEED MIX SPECIFICATIONS** N.T.S.



**ROCK CHECK DAM** N.T.S.



**CHECK DAMS IN SWALE** N.T.S.



**FLARED END SECTION WITH RIP RAP APRON / SCOUR HOLE DETAIL** N.T.S.

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 CAD ID: W201257-DET-58

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**NEXTGRID MESCALBEAN LLC**  
 PROPOSED SOLAR FARM

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**JOHN A. BOHLER**  
 CIVIL ENGINEER  
 No. 41530  
 REGISTERED PROFESSIONAL ENGINEER  
 MAINE LICENSE NO. 2255

**DETAIL SHEET**  
 SHEET NUMBER:  
**C-902**  
 REVISION 5 - 9/12/2023











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 48 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.



Catalog Data CA202003EN  
Effective April 2016

Three-phase pad-mounted compartmental type transformer

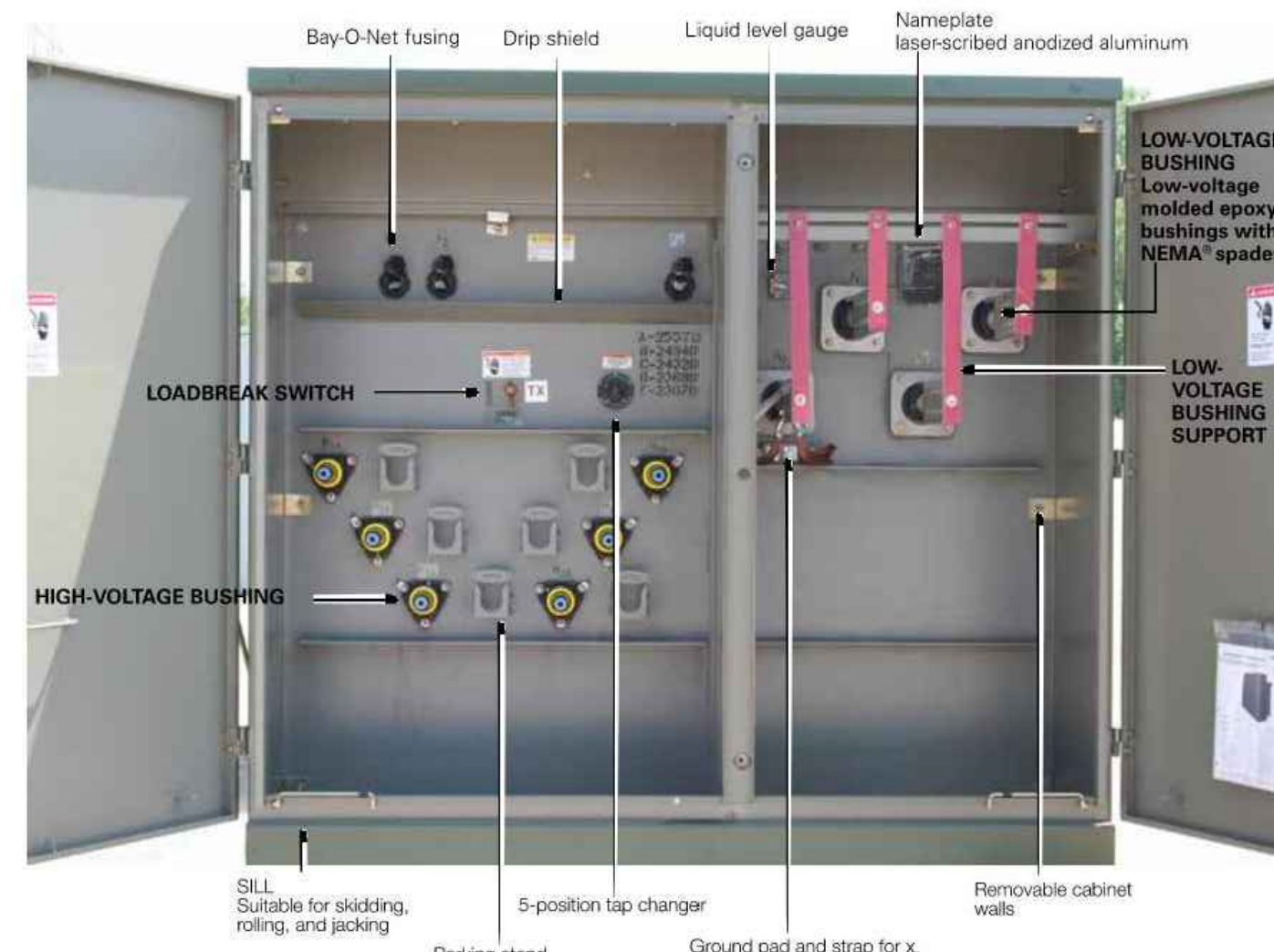


Figure 1. Three-phase pad-mounted compartmental type transformer.

Table 1. Product Scope

<b>Type</b>	Three Phase, 50 or 60 Hz, 65 C Rise 155 C, 55/65 C, 65/75 C, 75 C
<b>Fluid Type</b>	Mineral oil or Envirotemp™ FR3™ fluid
<b>Coil Configuration</b>	2-winding or 4-winding or 3-winding (Low-Low-Low, 3-winding (Low-Low-High))
<b>Size</b>	45 – 10,000 kVA
<b>Primary Voltage</b>	2,400 – 48,000 V
<b>Secondary Voltage</b>	208Y/120 V to 14,400 V Inverter/Rectifier Bridge K-Factor (up to K-19) Vacuum Fault Interrupter (VFI)
<b>Specialty Designs</b>	UL® Listed & Labeled and Classified Factory Mutual (FM) Approved® Solar/Wind Designs Differential Protection Seismic Applications (including OSHA) Hardened Data Center

2 www.eaton.com/cooperpowerseries

Three-phase pad-mounted compartmental type transformer

Catalog Data CA202003EN  
Effective April 2016

Table 2. Three-Phase Ratings

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

\*Transformers are available in the standard ratings and configurations shown or can be customized to meet specific needs.

Table 3. Impedance Voltage

Rating (kVA)	Low-voltage rating		
	< 600 V	2400 Δ through 4800 Δ	6900 Δ through 13800GV/7970 or 13800 Δ
45-75	2.75-5.75	2.75-5.75	2.75-5.75
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	6.00	6.50

Note: The standard tolerance is ± 75%.

Table 4. Audible Sound Levels

Self-Cooled, Two Winding kVA Rating	NEMA™ TR-1 Average 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 Cycles	kV BIL Distribution	Applied Test 60 Hz (kV)
1.2		30	10
2.5		45	15
5		60	19
8.7	Twice Rated Voltage	75	26
15		95	34
25		125	40
34.5		150	50

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

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

www.eaton.com/cooperpowerseries 3

Catalog Data CA202003EN  
Effective April 2016

Three-phase pad-mounted compartmental type transformer

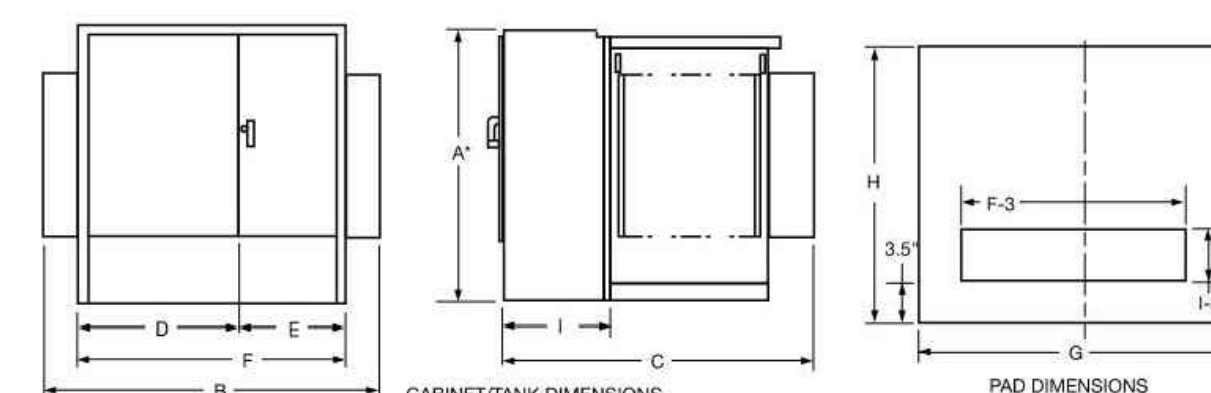


Figure 2. Transformer and pad dimensions.

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

Table 7. Fluid-filled – aluminum windings 55/65 °C Rise<sup>1</sup>

kVA Rating	OUTLINE DIMENSIONS (in.)									Gallons of Fluid	Approx. Total Weight (lbs.)
	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	48	42	26	68	72	53	20	120	2,350
150	50	68	48	42	26	68	72	53	20	125	2,700
225	50	72	51	42	30	72	78	55	20	140	3,150
300	50	72	51	42	30	72	78	55	20	160	3,650
500	50	85	53	42	30	72	83	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	61	20	320	8,200
1500	73	89	66	42	30	72	93	61	24	410	10,300
2000	73	72	87	42	30	72	78	91	24	480	12,500
2500	73	72	89	42	30	72	78	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	830	25,000
7500	94	102	122	54	48	102	100	126	24	1,580	41,500

<sup>1</sup> 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<sup>1</sup>

kVA Rating	OUTLINE DIMENSIONS (in.)									Gallons of Fluid	Approx. Total Weight (lbs.)
	A*	B	C	D	E	F	G	H	I		
45	50	64	38	34	30	64	69	43	20	110	2,100
75	50	64	39	34	30	64	69	43	20	115	2,250
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	75	55	20	140	3,250
300	50	64	51	34	30	64	75	55	20	160	3,650
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	61	20	300	7,800
1500	73	89	66	42	30	72	93	61	24	410	10,300
2000	73	72	87	42	30	72	78	91	24	420	11,600
2500	73	72	89	42	30	72	78	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	850	25,000
7500	94	102	122	54	48	102	100	126	24	1,620	46,800

<sup>1</sup> 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.

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## THREE-PHASE PAD-MOUNTED COMPARTMENTAL TYPE TRANSFORMER

N.T.S.



### REVISIONS

REV	DATE	COMMENT	CHECKED BY
1	06/07/2023	PLANNING BOARD COMMENTS	OCR
2	07/10/2023	PLANNING BOARD COMMENTS	OCR
3	7/19/2023	PER SURVEY UPDATES	AP
4	8/01/2023	PARCEL AREA REFERENCES	AP
5	9/12/2023	PER CONS COM CONDITIONS	JDL



### 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 ID.: W201257-DET1-58

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



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

www.BohlerEngineering.com



SHEET TITLE:

### DETAIL SHEET

SHEET NUMBER:

## C-905

REVISION 5 - 9/12/2023

P:\01\2023\03\CA202003EN\DRAWINGS\PLAN SET\ANSI\W201257-DET1-58.dwg - LAYOUT: C-905-DET1



## AstroTwins™

Enjoy the Energy of the Universe

### 400W~415W

P-type Monocrystalline PV Module  
CHSM72M(DG)/F-BH Series (168.75)

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



12-year Warranty for Materials and Processing  
30-year Warranty for Extra Linear Power Output  
(1<sup>st</sup> year +2.0%, 2<sup>nd</sup>-30<sup>th</sup> years +1.4%/year)

98.00%  
84.95%

#### KEY FEATURES

- 5W 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 vapor transmittance.

**COMPREHENSIVE CERTIFICATES**



First solar company which passed the TUV Nord IEC61215:2016 certification audit.

For Global Market

**ASTRONERGY**  
A CHINT COMPANY

#### ELECTRICAL SPECIFICATIONS

Power rating (Watt)	400 Wp		405 Wp		410 Wp		415 Wp	
Testing Condition	Front	Back	Front	Back	Front	Back	Front	Back
STC rated output (P <sub>max</sub> Wp)*	400	282	405	285	410	289	415	292
Rated voltage (V <sub>mpp</sub> V) at STC	40.67	40.88	40.89	41.10	41.10	41.31	41.31	41.52
Rated current (I <sub>mp</sub> A) at STC	9.84	6.89	9.91	6.94	9.96	6.99	10.05	7.04
Open circuit voltage (V <sub>oc</sub> V) at STC	48.24	48.82	48.42	48.90	48.60	47.17	48.78	47.34
Short circuit current (I <sub>sc</sub> 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%	19.8%	14.0%	20.2%	14.2%
Temperature coefficient (P <sub>max</sub> )	-0.35%/°C							
Temperature coefficient (V <sub>oc</sub> )	-0.28%/°C							
Temperature coefficient (V <sub>mpp</sub> )	-0.28%/°C							
Nominal module operating temperature (NMOT)	44±2°C							
Maximum system voltage (IEC611)	1500V <sub>DC</sub>							
Number of diodes	3							
Junction box IP rating	IP 68							
Maximum series fuse rating	20A							

STC: irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM1.5

#### ELECTRICAL SPECIFICATIONS (integrated power)

P <sub>max</sub> gain	P <sub>max</sub>	V <sub>mp</sub>	I <sub>mp</sub>	V <sub>oc</sub>	I <sub>sc</sub>
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

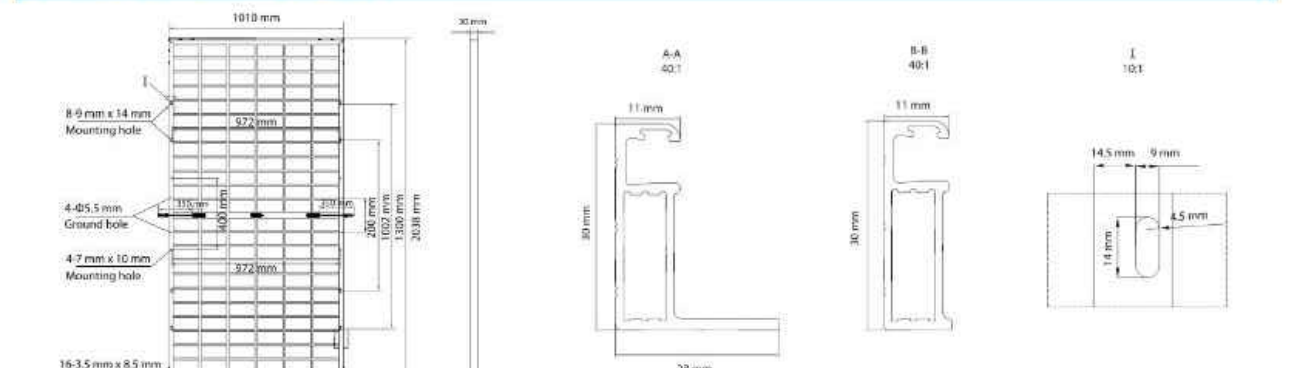
Outer dimensions (L x W x H)	2038 x 1010 x 30 mm
Frame technology	Aluminum, silver anodized
Glass thickness	2.0 mm
Cable length (IEC611)	Portrait: 350 mm Landscape: 1200 mm
Cable diameter (IEC611)	4 mm / 12 AWG
Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Connector type (IEC611)	MC4 compatible

#### PACKING SPECIFICATIONS

Weight (module only)	26.3 kg
Weight of packing unit (for 40 HQ container)	36 pcs / box
Weight of packing unit (for 40 HQ container)	994 kg
Number of modules per 40HQ container	792 pcs

1. Seawater: <math>+/-1.0kg</math>  
2. Subject to sales contract

#### MODULE DIMENSION DETAILS



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http://energy.chint.com Astroenergy 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
- Labeling 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  
UL LISTED  
MADE IN U.S.A.

Contact Toll Free: (844)-246-6140  
Local: (858) 246-6140  
www.connectpv.com  
sales@connectpv.com  
San Diego, CA  
CBX15 Rev. 3.0

## CONNECTPV

Simplifying Solar PV

### 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 components and 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)
16	250	#14-#4 Copper	M10 Stud	24x24x8	24x24x8
20	250			24x24x8	24x30x8
24	320	#10-#4 Copper	M12 Stud	30x24x8	30x24x8
28	400			30x30x8	36x36x8
32	400			36x30x8	36x36x8

\* Part Stainless Steel NEMA 4X  
Standard Disconnects sized at 1.25x Sum(Isc) per UL1741.  
Upsize Disconnect available at 1.56x Sum(Isc) for OCPD coordination.

High Ampacity Input Versions available:  
e.g., 12 input, 400A with 30A fuses  
Specifications Subject to Change

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

VV	T	###	FF	AA	EE
Voltage	Topology	Disconnect Rating	String Count	Fuse Rating	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  
Local: (858) 246-6140  
www.connectpv.com  
sales@connectpv.com  
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 dynamic performance

#### Easily Transportable

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

#### Modular / flexible configuration

- 1 MW blocks, up to 1600 VDC
- Configurable up to 4 MW
- Individual AC connections or combined throat
- Able to mix inverters & DC-DC in a single lineup

#### Advanced Technology

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

#### Simple O&M

- Easily maintainable
- Modular design with low component count
- Extended warranty available

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.

PRELIMINARY - EPC Power Corporation 70-100032 August 2019

**epcpower**  
excellence in power conversion

## CAB1000/DC

DC coupled solar + storage

MODEL	CAB1000/AC-630		
LINEUP QTY	1	4	
AC	AC port configuration AC voltage range AC export capacity @ 25°C AC export capacity @ 45°C AC import capacity @ 25°C AC import capacity @ 45°C Inverter type Minimum grid SCCR (2) Nominal frequency range Harmonic distortion Power factor / reactive power Maximum aux. power consumption Efficiency: Max I CEC / Euro DC voltage range (3) Typical Lithium battery voltage range Maximum DC current Battery technology Number of DC inputs	630 V RMS / 3P3W 50 - 60 Hz (field settable) UL1741 / IEEE 1547, <math><2\%</math> TDDI per IEEE 519 0 leading - 0 lagging (full 4-quadrant operation) 950 W 98.6% (est.) / >98% (est.) 892 - 1500 VDC 1403 ADC 925 - 1350 VDC 562 ADC all battery types, fuel cells, other DC sources, etc.	5000 kVA   4584 ARMS 4500 kVA   4124 ARMS 4016 kVA   3680 ARMS 3544 kVA   3248 ARMS 3-Level VSC 2 50 - 60 Hz (field settable) UL1741 / IEEE 1547, <math><2\%</math> TDDI per IEEE 519 0 leading - 0 lagging (full 4-quadrant operation) 3800 W >98% (est.) 892 - 1500 VDC 562 ADC all battery types, fuel cells, other DC sources, etc.
Environmental	Ambient temperature (operation) Ambient temperature (storage) Protection degree Relative humidity Max elevation Airborne noise Temperature de-rating	-20°C to 50°C -20°C to 50°C NEMA 3R / IP54 5% - 100% condensing 2,000 m (6,500 ft.) <math><75</math> dBA @ 5m automatic, see charts	-20°C to 50°C -20°C to 50°C NEMA 3R / IP54 5% - 100% condensing 2,000 m (6,500 ft.) <math><75</math> dBA @ 5m automatic, see charts
Cabinet	Maximum dimensions (H x W x D) Weight (est.) Mounting Cooling Coding type Safety Certifications (pending)	mm: (2275 x 1004 x 1200) in: (89.6 x 39.5 x 47.2) 1043 kg (2300 lb.) Pad mount Hybrid liquid / air 30% - 50% EWG or PWG UL 1741   C22.2 No. 107.1-16 UL 1741:2010 R2.18 (SA)   IEEE 1547-1:2005   CA Rule 21 No. 16-06-052	mm: (2275 x 4931 x 1200) in: (89.6 x 194 x 47.2) (4) x 1043 kg (4) x 2300 lb.) fuses (optional) Yes, requires external control power CAN, Modbus RS485, or Modbus TCP
Protections	AC protection DC protection Humidity Safety features Ground fault detection	overvoltage, overcurrent, overtemperature integrated Yes, requires external control power CAN, Modbus RS485, or Modbus TCP	overvoltage, overcurrent, overtemperature integrated Yes, requires external control power CAN, Modbus RS485, or Modbus TCP
Control	Control interface Command latency Response time (time to new setpoint) On-off grid transitions Back-start capable Grid-tied control modes Grid-support functions Islanded control modes Island overload avoidance Control power options	CAN, Modbus RS485, or Modbus TCP 1 ms 8 ms, adjustable longer via parameters Yes, I UPS mode available Yes, requires external control power Voltage mode   PQ (power)   DQ (current)   cos phi (pf) Volt/VAR   Hz/Watt   Volt/Watt   inertia V&I   droop control   inertia   Ok to parallel with other sources active inrush limiting for starting large loads 208 - 240 VAC, 1 DC, 24 VDC	CAN, Modbus RS485, or Modbus TCP 1 ms 8 ms, adjustable longer via parameters Yes, requires external control power Voltage mode   PQ (power)   DQ (current)   cos phi (pf) Volt/VAR   Hz/Watt   Volt/Watt   inertia V&I   droop control   inertia   Ok to parallel with other sources active inrush limiting for starting large loads 208 - 240 VAC, 1 DC, 24 VDC

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

PRELIMINARY - EPC Power Corporation 70-100032 August 2019

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excellence in power conversion

## CAB1000/DC

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, fuel, 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 installations
- MPPT capable
- Bidirectional buck/boost

Proven products. Limitless possibilities.

**epcpower**  
excellence in power conversion

13125 Danielson St., Suite 112 | Poway, CA 92064 | 1.858.748.5590 | epcpower.com

## CAB1000/DC

Bidirectional DC-DC

Use Case 1: DC -> PV inverter

Use Case 2: PV inverter -> DC

MODEL	CAB1000/DC1-1000-1500	CAB1000/DC2-2000-1500	CAB1000/DC3-3000-1500	
LINEUP	1	2	3	
DC	DC import capacity @ 50°C Convert topology Maximum aux. power consumption Efficiency: Max I CEC / Euro PV DC voltage range Maximum PV array voltage Battery DC voltage range Suggested battery voltage range Maximum DC current DC voltage ripple Battery technology Number of DC connections Ambient temperature (operation) Ambient temperature (storage) Protection degree Relative humidity Max elevation Airborne noise Temperature de-rating Maximum dimensions (H x W x D) Weight (est.) Mounting Cooling Coding type Safety Certifications Protections Control	1000 kW   1180 ADC 3-Level 750 W 98.5% (est.) / 98.5% (est.) 600 - 1500 VDC 1600 VDC 900 - 1500 VDC 720 - 1300 VDC 1350 ADC <math><3\%</math> all battery types, fuel cells, other DC sources, etc. 4 positive / 4 negative -20°C to 50°C -20°C to 50°C NEMA 3R / IP54 5% - 100% condensing 2,000 m (6,500 ft.) <math><75</math> dBA @ 5m automatic, see charts mm: (2786 x 1000 x 1200) in: (109.6" x 39.4" x 47.2") 907 kg (2000 lb.) Pad mount Hybrid liquid / air 30% - 50% EWG or PWG UL 1741 pending UL 1741 pending DC disconnect (battery), DC disconnect (PV), DC fuses (optional) Internal cabinet heating overvoltage, overcurrent, overtemperature integrated Yes, requires external control power CAN, Modbus RS485, or Modbus TCP 1 ms 10 ms, adjustable longer via parameters Yes, requires external control power 208 - 240 VAC, 1 DC, 24 VDC	2000 kW   2700 ADC 3-Level 1500 W 98.5% (est.) / 98.5% (est.) 600 - 1500 VDC 1600 VDC 900 - 1500 VDC 720 - 1300 VDC 2700 ADC <math><3\%</math> all battery types, fuel cells, other DC sources, etc. 8 positive / 8 negative -20°C to 50°C -20°C to 50°C NEMA 3R / IP54 5% - 100% condensing 2,000 m (6,500 ft.) <math><75</math> dBA @ 5m automatic, see charts mm: (2786 x 2000 x 1200) in: (109.6" x 78.8" x 47.2") 184 kg (4000 lb.) Pad mount Hybrid liquid / air 30% - 50% EWG or PWG UL 1741 pending UL 1741 pending DC disconnect (battery), DC disconnect (PV), DC fuses (optional) Internal cabinet heating overvoltage, overcurrent, overtemperature integrated Yes, requires external control power CAN, Modbus RS485, or Modbus TCP 1 ms 10 ms, adjustable longer via parameters Yes, requires external control power 208 - 240 VAC, 1 DC, 24 VDC	3000 kW   4050 ADC 3-Level 2250 W 98.5% (est.) / 98.5% (est.) 600 - 1500 VDC 1600 VDC 900 - 1500 VDC 720 - 1300 VDC 4050 ADC <math><3\%</math> all battery types, fuel cells, other DC sources, etc. 12 positive / 12 negative -20°C to 50°C -20°C to 50°C NEMA 3R / IP54 5% - 100% condensing 2,000 m (6,500 ft.) <math><75</math> dBA @ 5m automatic, see charts mm: (2786 x 3000 x 1200) in: (109.6" x 118.2" x 47.2") 2723 kg (6000 lb.) Pad mount Hybrid liquid / air 30% - 50% EWG or PWG UL 1741 pending UL 1741 pending DC disconnect (battery), DC disconnect (PV), DC fuses (optional) Internal cabinet heating overvoltage, overcurrent, overtemperature integrated Yes, requires external control power CAN, Modbus RS485, or Modbus TCP 1 ms 10 ms, adjustable longer via parameters Yes, requires external control power 208 - 240 VAC, 1 DC, 24 VDC

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REV	DATE	COMMENT	CHECKED BY
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CAD LID: W201257-DET1-58

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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SHEET TITLE:  
DETAIL SHEET  
SHEET NUMBER:  
C-906  
REVISION 5 - 9/12/2023

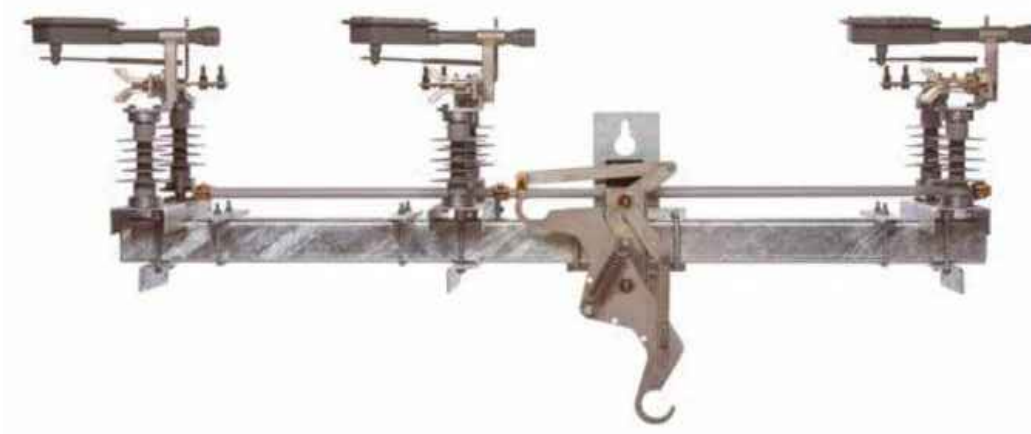


Switches and  
Disconnects  
CA008004EN

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 kV, 27 kV, and 38 kV. The M-Force switch may be used for line sectionalizing, paralleling, bypassing, or isolating. M-Force stands for "Magnetic Force". Eaton has the only reverse loop contacts found on distribution-class loadbreak 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.

Catalog Data CA008004EN  
Effective January 2016

### 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).

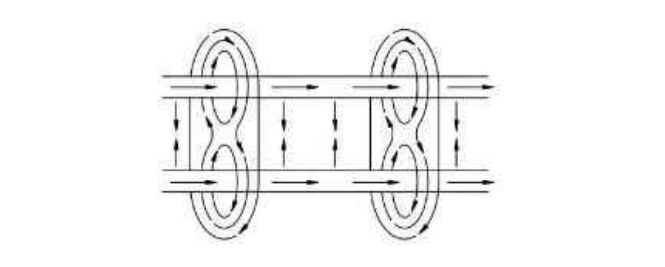


Figure 1A. Current flowing in same direction.

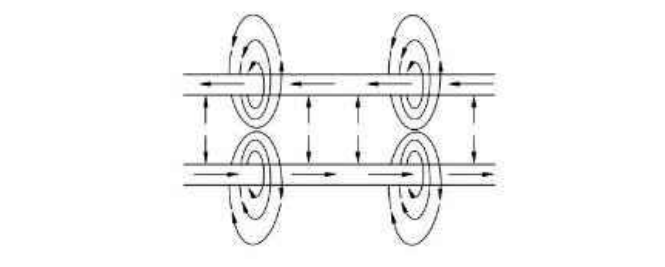


Figure 1B. Current flowing in opposite direction.

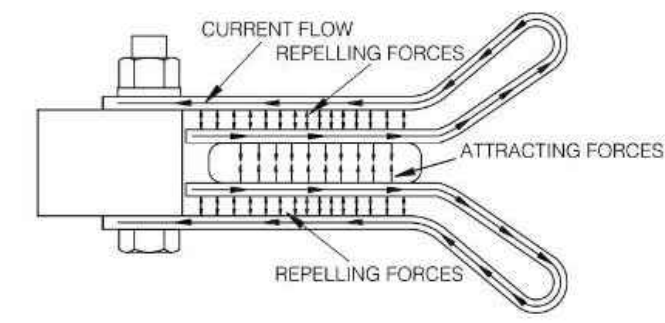


Figure 2. Magnetic forces acting on contacts.

### 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™ Load Break 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 are originally designed for high voltage transmission switches also maintain extremely cool temperatures even under the rated full load. The maximum temperature rise allowed per IEEE Std 1247™-2005 standard for the blade and contact area is 65 °C. The maximum 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 38 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 intermeter from the current path during a close operation. This feature allows for a wide range of adjustments between the Reliabreak™ and the blade clamp 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.

Catalog Data CA008004EN  
Effective January 2016

M-Force three-phase switch

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

**Voltage Class**  
1 - 15 kV/10 kV BIL  
2 - 27 kV/150 kV BIL  
3 - 38 kV/200 kV BIL

**Mounting Configuration**  
A - Horizontal Pole Top  
P - Phase over Phase  
R - Vertical Rise  
G - Horizontal Upright (IG095 Spacing)  
S - Vertical Riser (IG095 Spacing)  
T - Triangular  
U - Underhung (IG095 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**  
63 - 28" D Pipe (Steel Universal Section)  
82 - 28" D Pipe (Fiberglass Universal Section)  
C2 - 28" 1.5" Pipe (Cycloaliphatic Insulator)

**Insulator Bolt Pattern**  
1 - 3.00" Bolt circle for 25 kV switches  
2 - 2.25" Bolt circle for 15 and 27 kV switches  
3 - 3.00" Bolt circle for 38 kV switches

**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 - Locking Hardware on Terminal Post (Incompatible with Option U below)  
E - Extension LIMSETT  
F - Bonded Reciprocating Control Handle (Standard on Torsional Control)  
G - Reciprocating Handle with Interlocks  
H - Steel Interphase Rod  
I - Lightening Arrester Bracket  
J - Provisions for Neutral Wire  
K - Provisions for Sensors  
L - Additional Nameplate on Handle  
S - Ice Shields (3/4" Ice Break on Open or Close Operation)  
U - Grounding Connector on Crossarm Mounting Bracket  
V - Terminals Copper #2-500 MCM (Incompatible with Option C above)  
W - Pole Mounting Bracket  
X - Extra 7" of Control Rod  
Y - Extra 1" of Control Rod

**Crossarm Options**  
T - Steel with Single Point Lift (Standard Option)  
C - Steel with Two Point Lift  
G - Fiberglass with Single Point Lift  
F - Fiberglass with Two Point Lift

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

None  
03 - Hookstick operated (no control rod)

Consult factory for other bolt circle options.

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## Viper-5T

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

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	VP378ER (12 or 16)*-1-ST
27kV	VP388ER (12 or 16)*-1-ST
38kV	VP398ER (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)

G&W ELECTRIC PAGE 10

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



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.

## SEL-651R

### Advanced Recloser Control

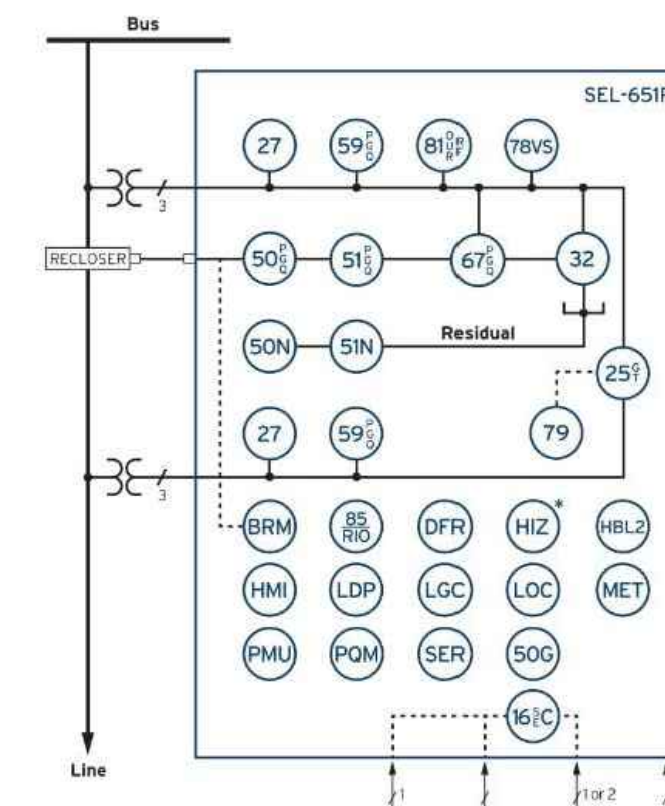


The industry's gold standard for recloser control

- 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.



## Functional Overview



### ANSI NUMBERS/ACRONYMS AND FUNCTIONS

16 SEC	Access Security (Serial, Ethernet)
25 (G.T)	Generator/Intertie Synchronization Check
27	Undervoltage
32	Directional Power
50G	Best Choice Ground
50N	Neutral Overcurrent
50 (P.G.D)	Overcurrent (Phase, Ground, Negative Sequence)
51 (P.G.D)	Time Overcurrent (Phase, Ground, Negative Sequence)
51N	Neutral Time Overcurrent
59 (P.G.D)	Overvoltage (Phase, Ground, Negative Sequence)
67 (P.G.D)	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 R10	SEL Memory Bts™ Communications
DIR	Event Reports
HIZ	SEL Arc Sense™ Technology (AST)*
HMI	Operator Interface
LGC	SELLogic™ Control Equations
MET	High-Accuracy Metering
PMU	Synchrophasors
PMI	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

Elastomold Molded Vacuum Recloser (MVR)	RE
Joshyn TriMod 300R	RXE
Joshyn TriMod 500R	VSA
OV-3 (15 and 27 kV only)	VSO
Gridshield 32-Pin (15, 27, and 38 kV)	VWV
Gridshield 42-Pin (15, 27, and 38 kV)	VWV 27
Gridshield 42-Pin (15, 27, and 38 kV)	VWV 38X
WE	WE
VR-3S (15 and 27 kV only)	WVE 27
CXE	WVE 38X
NOVA Auxiliary Powered	GVR*
NOVA Control Powered	SDR Triple-Single
NOVA NX-T	SDR Three-Phase
NOVA Triple-Single	OSM_150

\*When equipped with interface module

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CHECKED BY: GD  
DATE: 04/13/2023  
CAD ID: W201257-DETL-58

### 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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SHEET TITLE:

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## C-907

REVISION 5 - 9/12/2023

## PHOTOVOLTAIC PANEL SPECIFICATIONS

N.T.S.





**MAPLE STREET**  
(1929 COUNTY LAYOUT)  
(PUBLIC - 50' WIDE)



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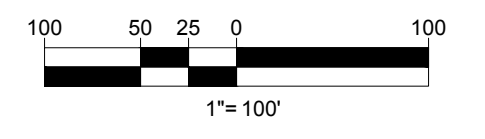
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SHEET TITLE:  
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SHEET NUMBER:  
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