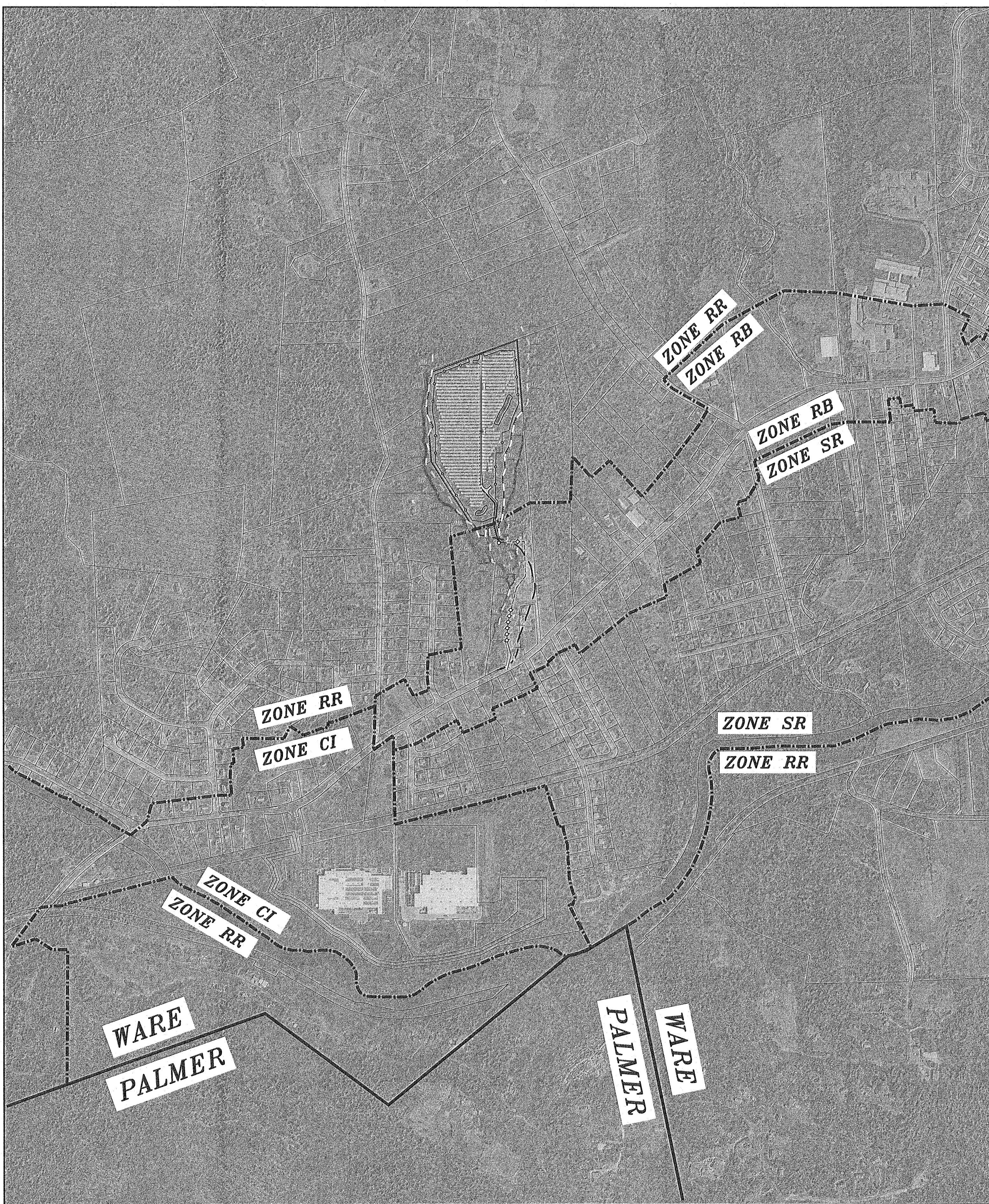
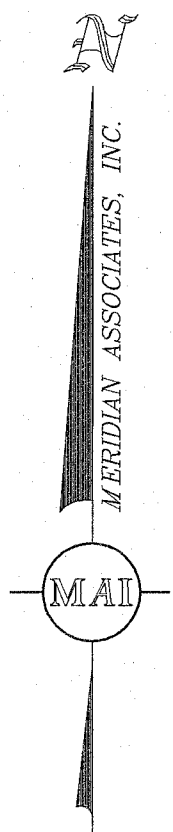
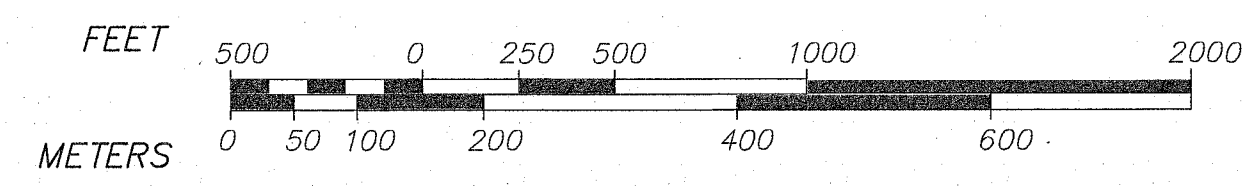




LOCUS CONTEXT MAP:

GRAPHIC SCALE
SCALE: 1"=500'



FOR PERMITTING ONLY
NOT FOR CONSTRUCTION

DWG. No. 6044-CVR
(IMAGE: USGS Color Ortho Imagery (2013/2014))

WARE PALMER ROAD SOLAR, LLC
SOLAR DEVELOPMENT
313 PALMER ROAD
(ASSESSOR'S MAP 10 - PARCEL 105)
-PERMIT SITE PLAN-

PANELS	DC POWER	AC POWER
10,684	3.8999±MW	2.785±MW



LOCATED IN
WARE, MASSACHUSETTS

DATE: JULY 2, 2018
REVISED: AUGUST 29, 2018

APPLICANT:
DYNAMIC ENERGY SOLUTIONS, LLC
1550 LIBERTY RIDGE DRIVE SUITE 310
WAYNE, PENNSYLVANIA 19087

RECORD OWNER:
SUNNY SIDE STORAGE, LLC
313 PALMER ROAD
WARE, MASSACHUSETTS 01082

Dynamic Energy

SITE CIVIL ENGINEER:
MERIDIAN ASSOCIATES
500 CUMMINGS CENTER SUITE 5950 69 MILK STREET, SUITE 302
BEVERLY, MASSACHUSETTS 01915 WESTBOROUGH, MASSACHUSETTS 01581
TELEPHONE: (978) 299-0447 TELEPHONE: (508) 871-7030
WWW.MERIDIANASSOC.COM

ENVIRONMENTAL CONSULTANT:
LEC
LEC ENVIRONMENTAL CONSULTANTS, INC.
100 GROVE STREET, SUITE 302
WORCESTER, MA 01605
TEL: (508) 753-3077 FAX: (508) 753-3177
WWW.LECENVIRONMENTAL.COM

DRAWING INDEX:

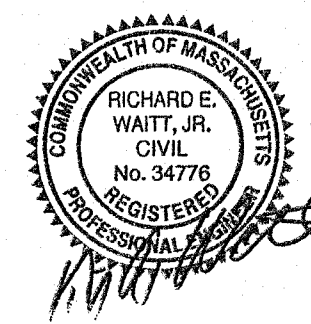
- | | |
|----------|---------------------------------------|
| SHEET 1 | COVER SHEET & LOCUS CONTEXT MAP |
| SHEET 2 | RECORD CONDITIONS PLAN INDEX SHEET |
| SHEET 3 | RECORD CONDITIONS PLAN SHEET 1 |
| SHEET 4 | RECORD CONDITIONS PLAN SHEET 2 |
| SHEET 5 | PERMIT SITE PLAN OF LAND INDEX SHEET |
| SHEET 6 | PERMIT SITE PLAN OF LAND SHEET 1 |
| SHEET 7 | PERMIT SITE PLAN OF LAND SHEET 2 |
| SHEET 8 | CULVERT CROSSING DETAIL |
| SHEET 9 | INFILTRATION BASIN DETAIL |
| SHEET 10 | EROSION & SEDIMENT CONTROL PLAN SHEET |
| SHEET 11 | EROSION & SEDIMENT CONTROL PLAN NOTES |
| SHEET 12 | DETAIL SHEET |

ZONING CONFORMANCE TABLE:

WARE ZONING BYLAWS SECTION 4.8.3.G

REQUIREMENT	REQUIRED	PROPOSED
FRONT YARD:	25 FT.	1,300± FT.
SIDE YARD:	25 FT.	52± FT.
REAR YARD:	25 FT.	49± FT.

APPROVED BY:
WARE PLANNING BOARD

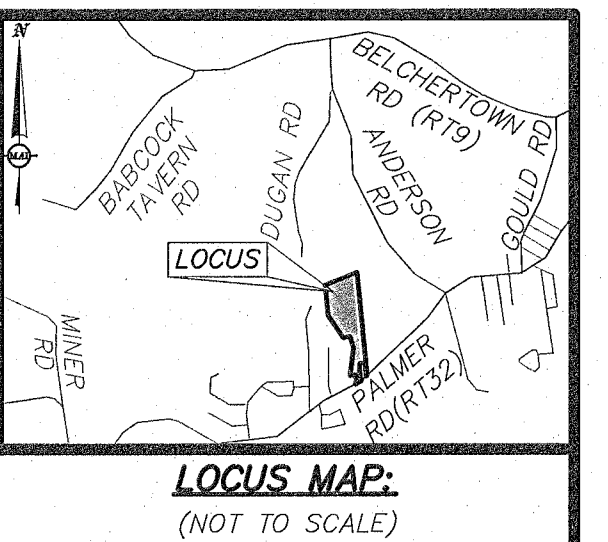
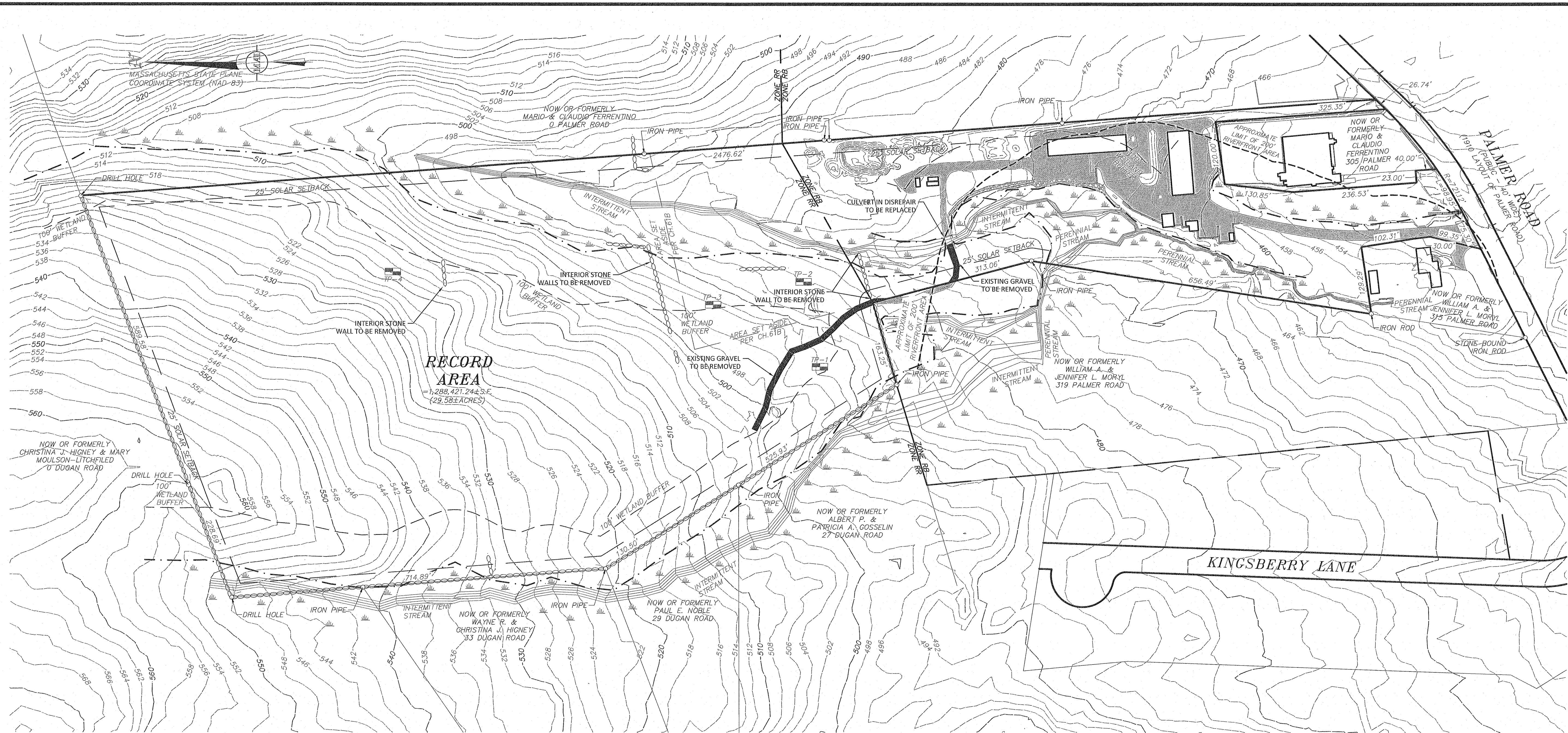


I, _____ CLERK OF THE TOWN OF WARE,
MASSACHUSETTS HEREBY CERTIFY THAT THE NOTICE OF APPROVAL OF
THIS PLAN BY THE WARE PLANNING BOARD HAS BEEN RECEIVED AND
RECORDED AT THE OFFICE AND NO NOTICE OF APPEAL WAS RECEIVED
DURING TWENTY DAYS NEXT AFTER SUCH RECEIPT AND RECORDING OF
SAID NOTICE.

TOWN CLERK

DATE

DATE:



UNOFFICIAL SOILS INFORMATION

DATE: JUNE 08, 2018
CONDUCTED BY: ANDREW RODRIGUEZ, SE (13890)

TEST PIT TP-1
ELEV.=491.6±
ASSUMED E.S.H.G.W. ELEV.=489.7±

0"-6" Ap HORIZON: FINE SANDY LOAM
6"-23" B HORIZON: FINE SANDY LOAM
23"-109" LAYER C: LOAMY SAND
WEAVING OBSERVED @ 105"
REDOX NOT OBSERVED

TEST PIT TP-2
ELEV.=484.0±
ASSUMED E.S.H.G.W. ELEV.=482.4±

0"-6" Ap HORIZON: FINE SANDY LOAM
6"-19" B HORIZON: FINE SANDY LOAM
19"-29" LAYER C: FINE SANDY LOAM
29"-65" LAYER C2: GRAVELLY LOAMY SAND WITH COBBLES

REDOX OBSERVED @ 25"
WEAVING OBSERVED @ 57"
STANDING WATER OBSERVED @ 62"

TEST PIT TP-3
ELEV.=494.1±
ASSUMED E.S.H.G.W. ELEV.=492.5±

0"-8" Ap HORIZON: SANDY LOAM
8"-19" B HORIZON: SANDY LOAM
19"-31" LAYER C: GRAVELLY COARSE SAND WITH COBBLES
31"-90" LAYER C2: GRAVELLY LOAMY SAND WITH COBBLES

REDOX OBSERVED @ 85"
STANDING WATER OBSERVED @ 89"

TEST PIT TP-4
ELEV.=518.1±
ASSUMED E.S.H.G.W. ELEV.=515.9±

0"-8" A HORIZON: FINE SANDY LOAM
8"-26" B HORIZON: GRAVELLY FINE SANDY LOAM
26"-83" LAYER C: GRAVELLY LOAMY SAND WITH COBBLES

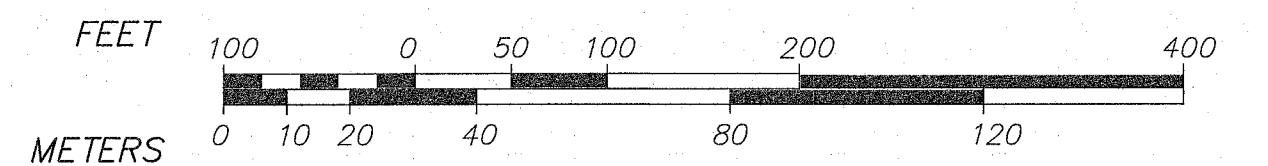
REDOX OBSERVED @ 36"
WATER NOT OBSERVED

LEGEND:

---458---	TWO FOOT CONTOUR	---	SETBACK LIMIT
---460---	TEN FOOT CONTOUR	---	COMPILED GAS LINE
x467.6	SPOT ELEVATION (COL-EAST)	---	COMPILED COMMUNICATIONS LINE
---	CURB	---	OVERHEAD WIRES
---	TREELINE	---	COMPILED ELECTRIC LINE
---	VEGETATION LINE	---	LIGHT
---	GUARDRAIL	---	UTILITY POLE
---	FENCE	---	UTILITY POLE WITH LIGHT
---	STONEWALL	---	GUY WIRE
---	RETAINING WALL	---	COMPILED DRAIN LINE
---	RIPPRAP	---	CATCH BASIN
---	GRAVEL	---	COMPILED WATER LINE
---	MAILBOX	---	HYDRANT
---	POST	---	COMPILED SEWER LINE
---	DECIDUOUS TREE	---	MANHOLE
---	CONIFEROUS TREE	---	TERMINUS UNKNOWN
---	SHRUB	---	CONCRETE
---	BORDERING VEGETATED WETLANDS	---	EDGE OF PAVEMENT
---	WETLAND FLAG	---	HEADWALL
---	LIMIT OF BUFFER ZONE	---	INVERT
---		---	RETAINING WALL
---		---	SQUARE FEET

GRAPHIC SCALE

SCALE: 1"=100'



NOTES:

- THE TOPOGRAPHY, SITE DETAIL & SURFACE IMPROVEMENTS DEPICTED HEREON WERE OBTAINED FROM:
 - AERIAL PHOTOGRAMMETRIC MAPPING CONDUCTED BY COL-EAST, INC. DATED DECEMBER 4, 2017
 - A LIMITED ON THE GROUND INSTRUMENT SURVEY CONDUCTED BY MERIDIAN ASSOCIATES, INC. (MAI) IN FEBRUARY 2018
 - MASSGIS DATA.
- THE SUBJECT PROPERTY IS LOCATED IN THE RESIDENTIAL BUSINESS (RB) AND RURAL RESIDENTIAL (RR) ZONING DISTRICTS.
- THE SUBJECT PROPERTY IS DEPICTED AS LOT 105 ON TOWN OF WARE ASSESSOR'S MAP 10.
- THE LOCATION OF ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE AND ARE BASED UPON A PARTIAL FIELD SURVEY AND COMPILATION OF PLANS OF RECORD. MERIDIAN ASSOCIATES, INC. DOES NOT WARRANT NOR GUARANTEE THE LOCATION OF ALL UTILITIES DEPICTED OR NOT DEPICTED. THE CONTRACTOR, PRIOR TO COMMENCEMENT OF CONSTRUCTION, SHALL VERIFY THE LOCATION OF ALL UTILITIES AND CONTACT DIG SAFE AT 1-888-344-7233.
- THIS PLAN DOES NOT SHOW ANY UNRECORDED OR UNWRITTEN EASEMENTS WHICH MAY EXIST. A REASONABLE AND DILIGENT ATTEMPT HAS BEEN MADE TO OBSERVE ANY APPARENT, VISIBLE USES OF THE LAND; HOWEVER, THIS DOES NOT CONSTITUTE A GUARANTEE THAT NO SUCH EASEMENTS EXIST.
- THE ELEVATIONS DEPICTED HEREON WERE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), AS DERIVED FROM GPS OBSERVATIONS.
- PROPERTY LINES DEPICTED HEREON ARE BASED ON COMPILED DEEDS AND PLANS OF RECORD. THIS PLAN IS NOT TO BE USED FOR THE RECONSTRUCTION OF BOUNDARY LINES OR FOR TITLE INSURANCE PURPOSES. ALL BOUNDARY LINES DEPICTED ARE APPROXIMATE ONLY. MAI DID NOT PERFORM A BOUNDARY RETRACEMENT SURVEY.
- THE WETLAND FLAGS DEPICTED WERE DEMARCATED BY MERIDIAN ASSOCIATES, INC. IN OCTOBER 2017.
- THE SUBJECT PROPERTY IS LOCATED IN FLOOD ZONE X (UNSHADED). AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FEMA FLOOD INSURANCE RATE MAP COMMUNITY-PANEL NUMBER 250172 0021 B DATED AUGUST 17, 1981.

FOR PERMITTING ONLY
NOT FOR CONSTRUCTION

ALL UNDERGROUND UTILITY DATA REPRESENTS RECORD INFORMATION RECOVERED THROUGH RESEARCH WITHOUT SURFACE DEMARCATION NOR SUBSURFACE VERIFICATION.

RECORD OWNER:

SUNNY SIDE STORAGE, LLC
313 PALMER ROAD
WARE, MASSACHUSETTS 01082
- DEED BOOK 8803, PAGE 60

REFERENCES:

- 1910 LAYOUT OF PALMER ROAD
- PLAN BOOK 174, PLAN 3
DOCUMENTS RECORDED AT THE HAMPSHIRE DISTRICT REGISTRY OF DEEDS.

REVISIONS

NO.	DATE	DESCRIPTION	BY	CHK'D
1	8/29/18	NO REVISIONS THIS SHEET	JG	CR

313 PALMER ROAD

RECORD CONDITIONS PLAN OF LAND

LOCATED IN
WARE, MASSACHUSETTS
(HAMPSHIRE COUNTY)

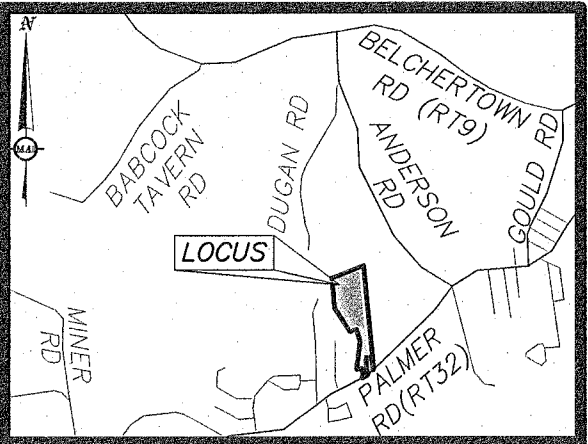
PREPARED FOR
DYNAMIC ENERGY SOLUTIONS, LLC
SCALE: 1"= 100' DATE: JULY 2, 2018

MERIDIAN ASSOCIATES

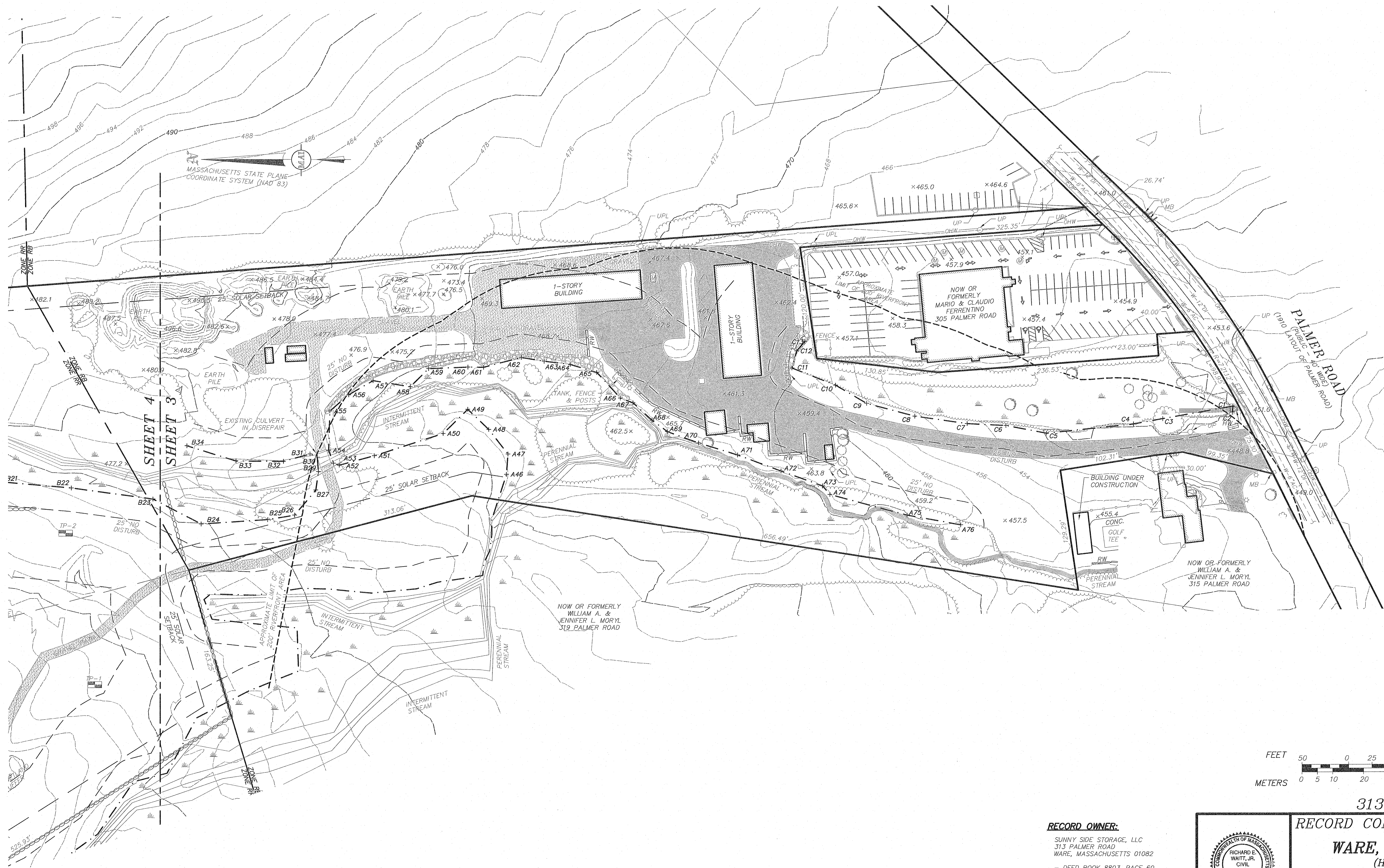
500 CUMMINGS CENTER, SUITE 5950
BEVERLY, MASSACHUSETTS 01915
TELEPHONE: (978) 299-0447
WWW.MERIDIANASSOC.COM

SHEET No. 2 OF 12

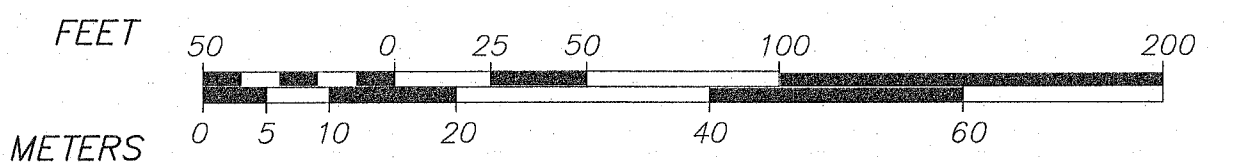
PROJECT No. 6044



LOCUS MAP:
(NOT TO SCALE)



GRAPHIC SCALE
SCALE: 1"=50'



313 PALMER ROAD

RECORD CONDITIONS PLAN OF LAND

LOCATED IN
WARE, MASSACHUSETTS
(HAMPSHIRE COUNTY)

PREPARED FOR
DYNAMIC ENERGY SOLUTIONS, LLC
SCALE: 1"= 50' DATE: JULY 2, 2018

MERIDIAN ASSOCIATES

500 CUMMINGS CENTER, SUITE 3950 BEVERLY, MASSACHUSETTS 01915
69 MILK STREET, SUITE 302 WESTBOROUGH, MASSACHUSETTS 01581
TELEPHONE: (978) 299-0447 TELEPHONE: (508) 871-7030
WWW.MERIDIANASSOC.COM

SHEET No. 3 OF 12 PROJECT No. 6044

RECORD OWNER:

SUNNY SIDE STORAGE, LLC
313 PALMER ROAD
WARE, MASSACHUSETTS 01082
- DEED BOOK 8803, PAGE 60

REFERENCES:

- 1910 LAYOUT OF PALMER ROAD
- PLAN BOOK 174, PLAN 3

DOCUMENTS RECORDED AT THE
HAMPSHIRE DISTRICT REGISTRY OF DEEDS.

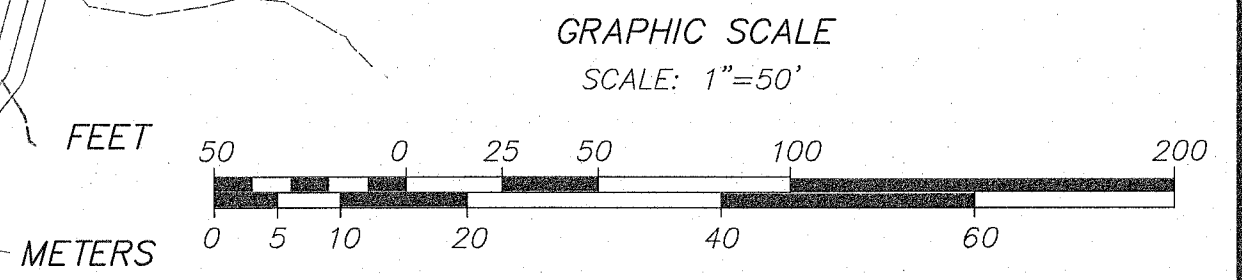
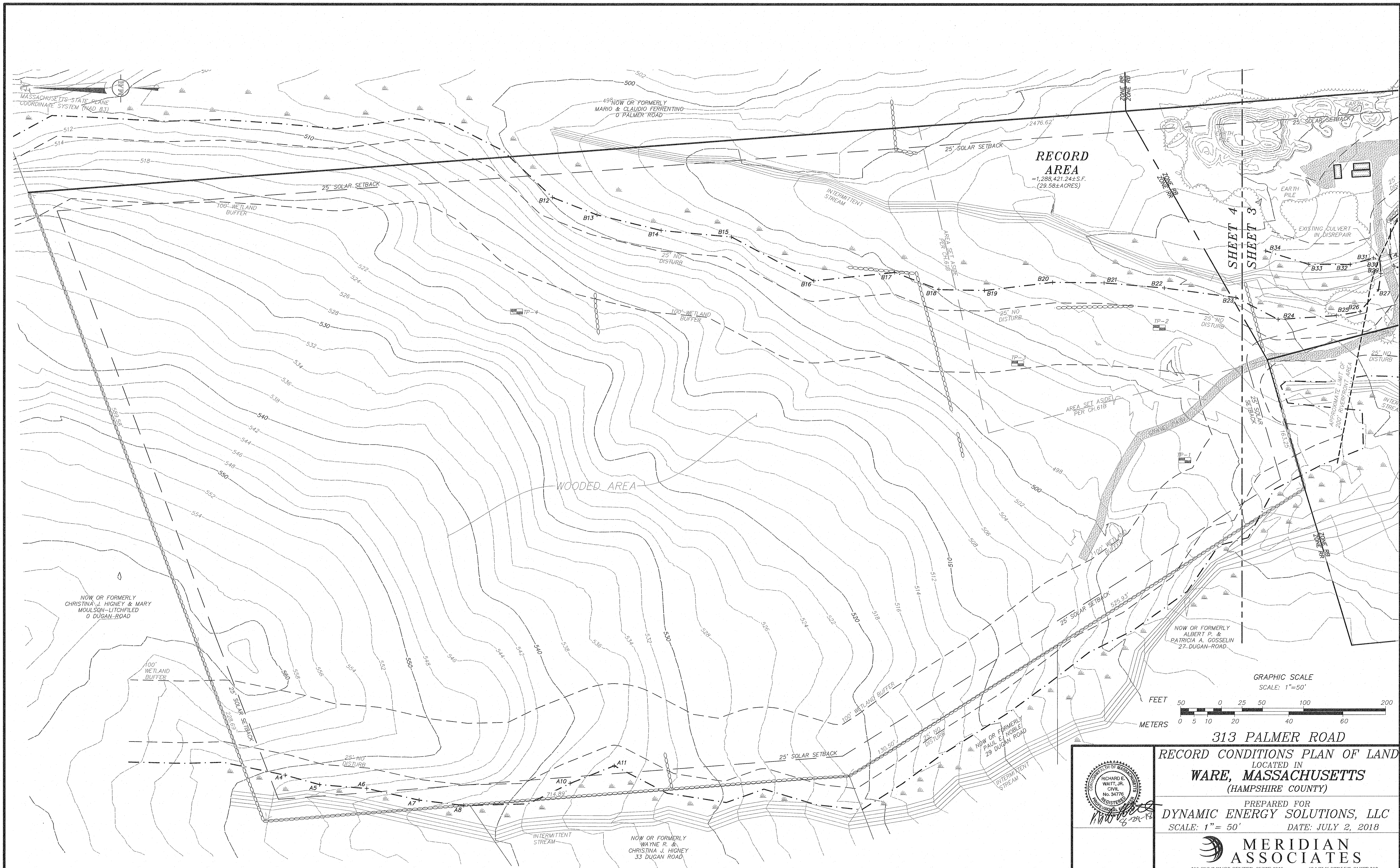
REVISIONS

NO.	DATE	DESCRIPTION	BY	CHK'D
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FOR PERMITTING ONLY
NOT FOR CONSTRUCTION

SEE NOTES AND LEGEND
ON SHEET 2 OF 12

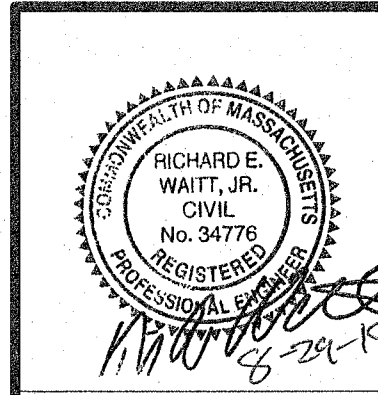
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BK. #672 PG. #29
DWG. No. 6044_REC



FOR PERMITTING ONLY
NOT FOR CONSTRUCTION

SEE NOTES AND LEGEND
ON SHEET 2 OF 12

REVISIONS					
NO.	DATE	DESCRIPTION	BY	CHK'D	
1	8/29/18	NO REVISIONS THIS SHEET	JG	CR	



RECORD CONDITIONS PLAN OF LAND
LOCATED IN
WARE, MASSACHUSETTS
(HAMPSHIRE COUNTY)

PREPARED FOR
DYNAMIC ENERGY SOLUTIONS, LLC
SCALE: 1" = 50' DATE: JULY 2, 2018

MERIDIAN ASSOCIATES

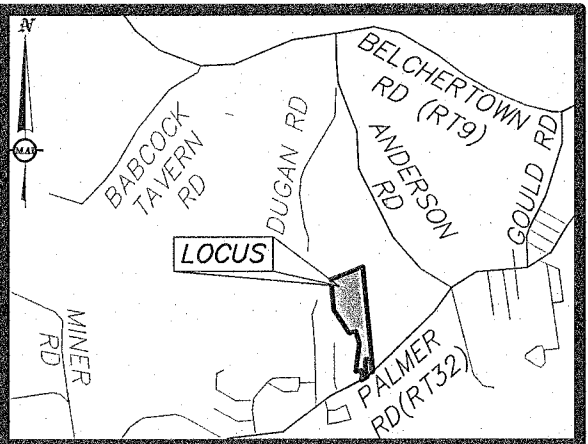
500 CUMMINGS CENTER, SUITE 5950 BEVERLY, MASSACHUSETTS 01915
TELEPHONE: (978) 299-0447
69 MILK STREET, SUITE 302 WESTBOROUGH, MASSACHUSETTS 01581
TELEPHONE: (508) 871-7030
WWW.MERIDIANASSOC.COM

SHEET No. 4 OF 12 PROJECT No. 6044

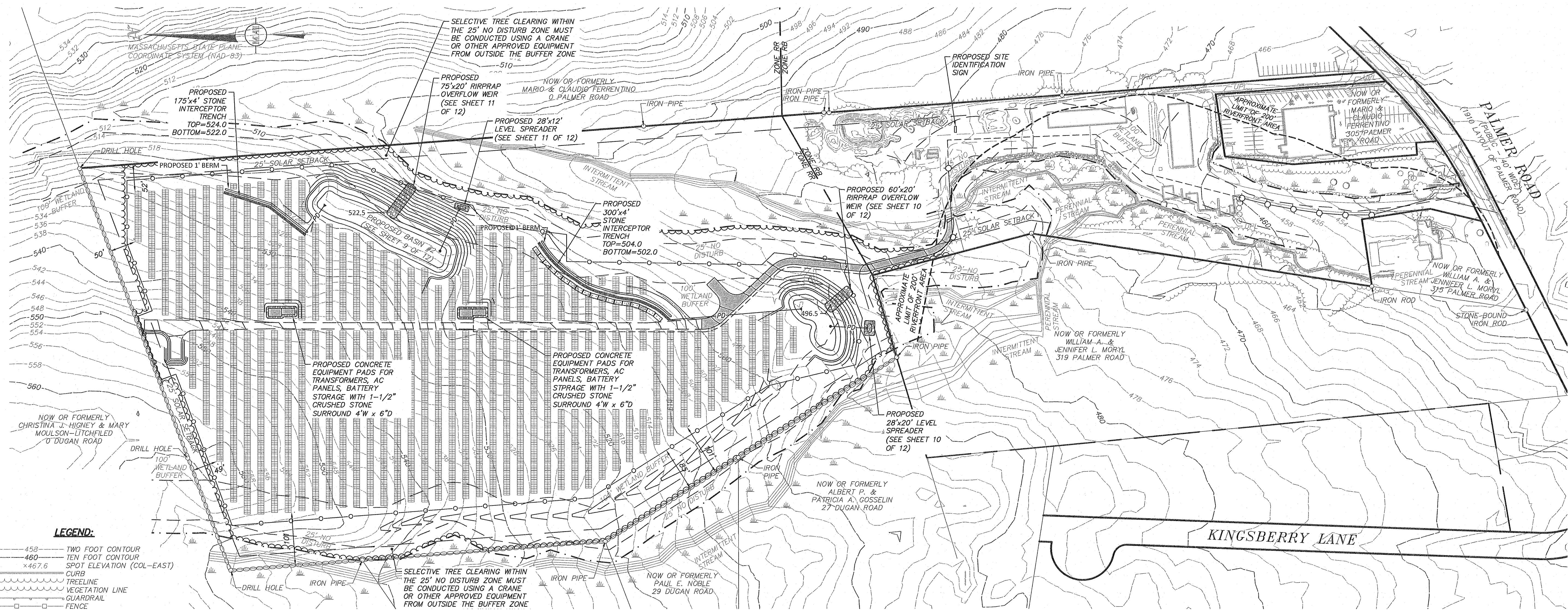
ZONING CONFORMANCE TABLE:

WARE ZONING BYLAWS SECTION 4.8.3.G

REQUIREMENT	REQUIRED	PROPOSED
FRONT YARD:	25 FT.	1,300± FT.
SIDE YARD:	25 FT.	52± FT.
REAR YARD:	25 FT.	49± FT.



LOCUS MAP:
(NOT TO SCALE)



LEGEND:

- 458 - TWO FOOT CONTOUR
- 480 - TEN FOOT CONTOUR
- 487.6 - SPOT ELEVATION (COL-EAST)
- CURB
- TREELINE
- VEGETATION LINE
- GUARDRAIL
- STONEWALL
- RETAINING WALL
- RIPRAP
- GRAVEL
- SIGN
- MAILBOX
- POST
- DECIDUOUS TREE
- CONIFEROUS TREE
- SHRUB
- BORDERING VEGETATED WETLANDS
- WETLAND FLAG
- LIMIT OF BUFFER ZONE
- SETBACK LIMIT
- COMPILED GAS LINE
- COMPILED COMMUNICATIONS LINE
- OVERHEAD WIRES
- COMPILED ELECTRIC LINE
- LIGHT
- UTILITY POLE
- UTILITY POLE WITH LIGHT
- GUY WIRE
- COMPILED DRAIN LINE
- CATCH BASIN
- COMPILED WATER LINE
- HYDRANT
- COMPILED SEWER LINE
- MANHOLE
- TERMINUS UNKNOWN
- CONC.
- EOP
- HW
- INV
- RW
- S.F.

PROPOSED LEGEND:

- PROPOSED TREELINE
- PROPOSED CONTOUR
- PROPOSED CHAINLINK FENCE
- PE - PROPOSED UNDERGROUND ELECTRIC LINE
- POHW - PROPOSED OVERHEAD WIRES
- PROPOSED UTILITY POLE
- MIN
- TYP

NOTES:

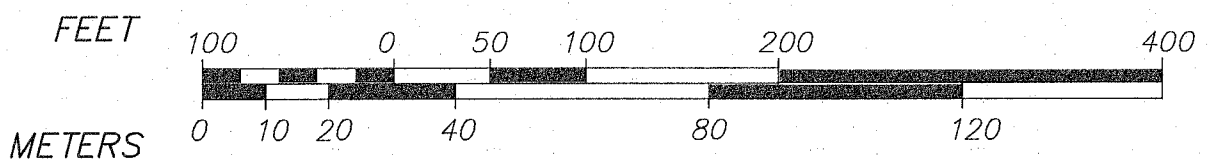
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 - MASSGIS DATA
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ALL UNDERGROUND UTILITY DATA REPRESENTS RECORD INFORMATION RECOVERED THROUGH RESEARCH WITHOUT SURFACE DEMARCATON NOR SUBSURFACE VERIFICATION.

PANELS	DC POWER	AC POWER
10,684	3.899±MW	2.785±MW

GRAPHIC SCALE

SCALE: 1"=100'



RECORD OWNERS:

SUNNY SIDE STORAGE, LLC
313 PALMER ROAD
WARE, MASSACHUSETTS 01082
- DEED BOOK 8803, PAGE 60

REFERENCES:

- 1910 LAYOUT OF PALMER ROAD
- PLAN BOOK 174, PLAN 23

DOCUMENTS RECORDED AT THE HAMPSHIRE DISTRICT REGISTRY OF DEEDS.

REVISIONS

NO.	DATE	DESCRIPTION	BY	CHK'D
1	8.29.18	100-FT BUFFER TO PANELS	JG	CAR

FOR PERMITTING ONLY
NOT FOR CONSTRUCTION

313 PALMER ROAD

PERMIT SITE PLAN

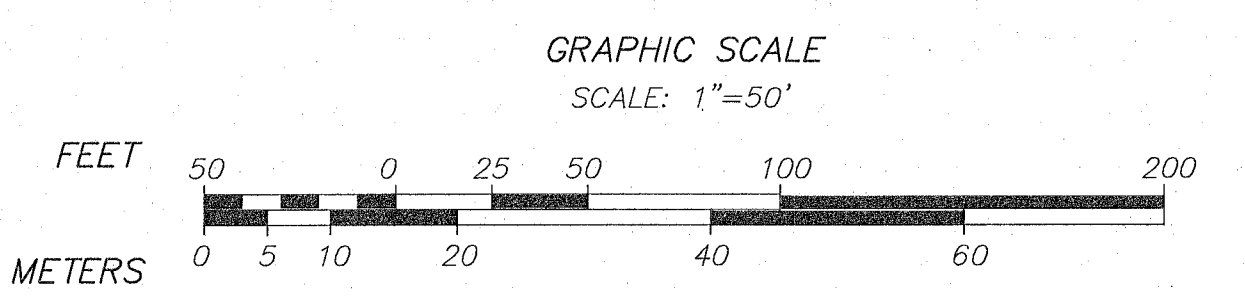
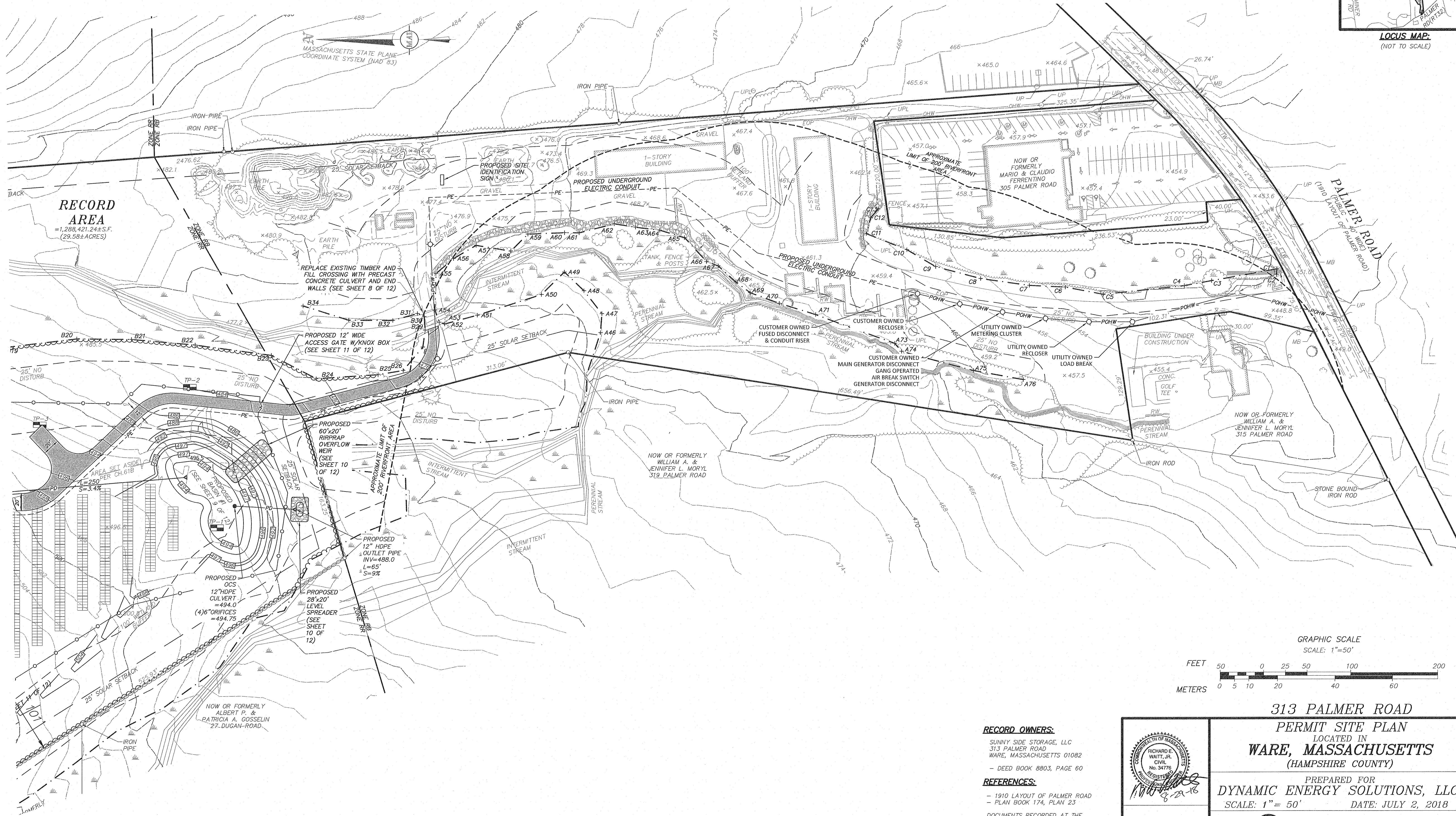
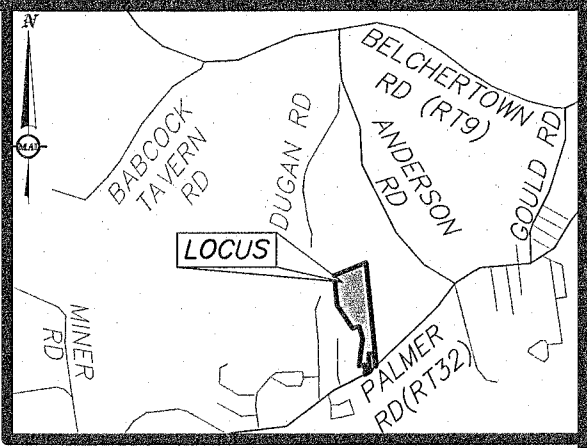
LOCATED IN
WARE, MASSACHUSETTS
(HAMPSHIRE COUNTY)

PREPARED FOR
DYNAMIC ENERGY SOLUTIONS, LLC
SCALE: 1"= 100' DATE: JULY 2, 2018

MERIDIAN ASSOCIATES

500 CUMMINGS CENTER, SUITE 5950 BEVERLY, MASSACHUSETTS 01915
TELEPHONE: (978) 299-0447
69 MILK STREET, SUITE 302 WESTBOROUGH, MASSACHUSETTS 01581
TELEPHONE: (508) 871-7030
WWW.MERIDIANASSOC.COM

SHEET No. 5 OF 12 PROJECT No. 6044



FOR PERMITTING ONLY
NOT FOR CONSTRUCTION

SEE NOTES AND LEGEND
ON SHEET 5 OF 12

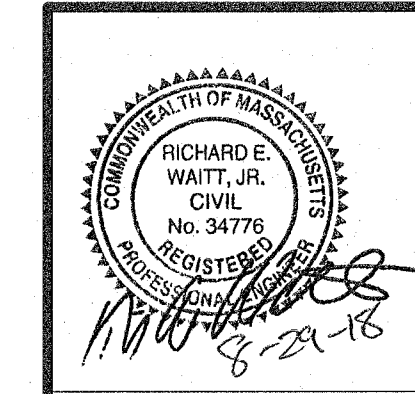
RECORD OWNERS:
SUNNY SIDE STORAGE, LLC
313 PALMER ROAD
WARE, MASSACHUSETTS 01082
- DEED BOOK 8803, PAGE 60

REFERENCES:
- 1910 LAYOUT OF PALMER ROAD
- PLAN BOOK 174, PLAN 23

DOCUMENTS RECORDED AT THE
HAMPSHIRE DISTRICT REGISTRY OF DEEDS.

REVISIONS

NO.	DATE	DESCRIPTION	BY	CHK'D
1	8.29.18	100-FT BUFFER TO PANELS	JG	CAR



313 PALMER ROAD

PERMIT SITE PLAN

LOCATED IN
WARE, MASSACHUSETTS
(HAMPSHIRE COUNTY)

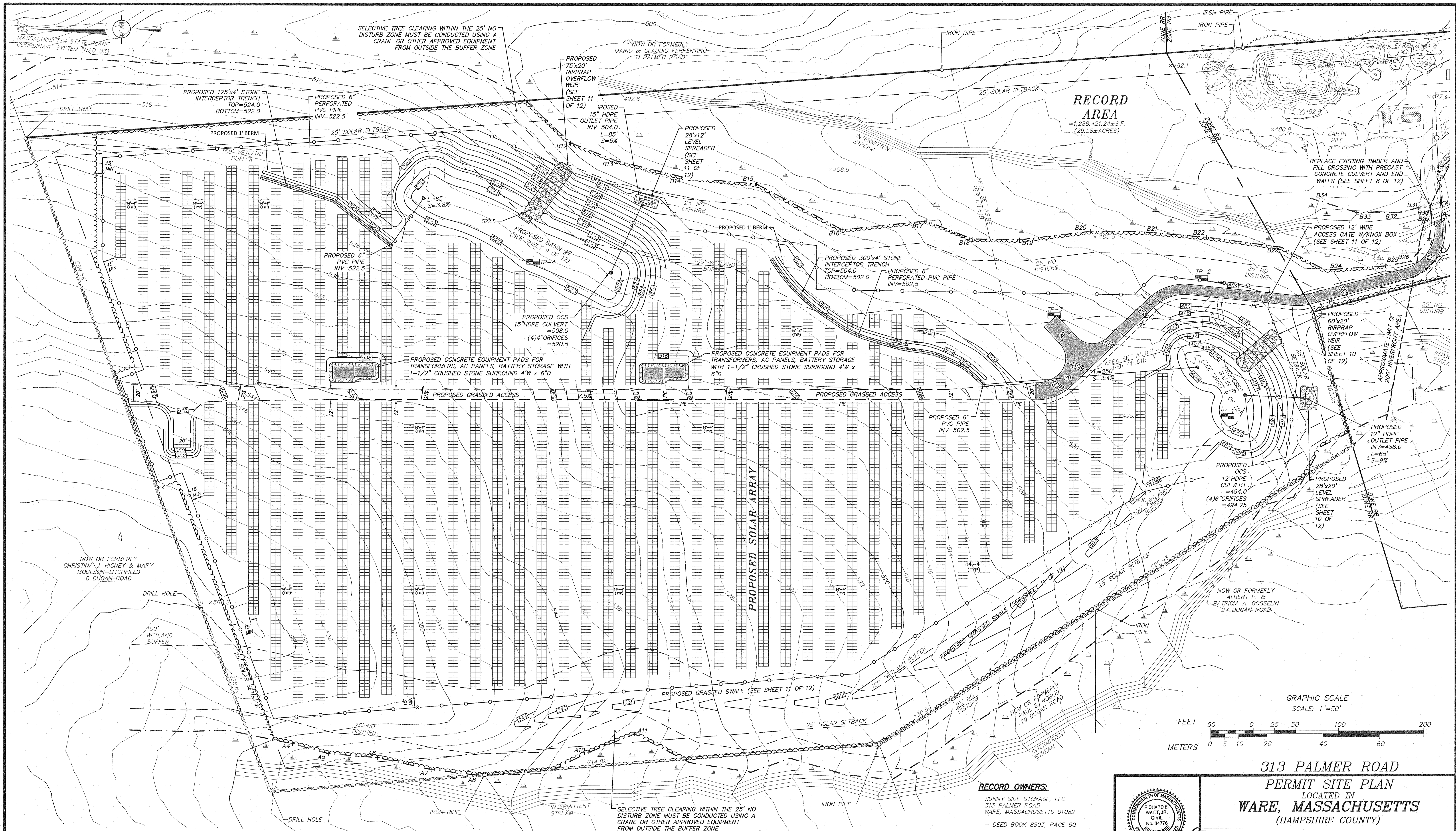
PREPARED FOR
DYNAMIC ENERGY SOLUTIONS, LLC
SCALE: 1" = 50' DATE: JULY 2, 2018

MERIDIAN ASSOCIATES
500 CUMMINGS CENTER, SUITE 5950 BEVERLY, MASSACHUSETTS 01915
TELEPHONE: (978) 299-0447
WWW.MERIDIANASSOC.COM

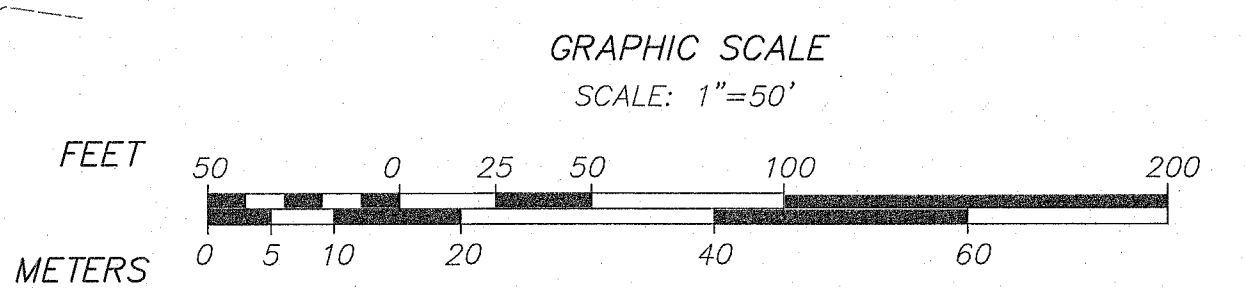
69 MILK STREET, SUITE 302 WESTBOROUGH, MASSACHUSETTS 01581
TELEPHONE: (508) 871-7030

SHEET No. 6 OF 12

PROJECT No. 6044



RECORD AREA
= 1,288,421.24 ± S.F.
(29.58 ± ACRES)



UNOFFICIAL SOILS INFORMATION

DATE: JUNE 08, 2018
CONDUCTED BY: ANDREW RODRIGUEZ, SE (13890)

TEST PIT TP-1
ELEV.=491.6±
ASSUMED E.S.H.G.W. ELEV.=489.7±

0"-6" Ap HORIZON: FINE SANDY LOAM
6"-23" B HORIZON: FINE SANDY LOAM
23"-109" LAYER C: LOAMY SAND
WEEDING OBSERVED @ 105"
REDOX NOT OBSERVED

TEST PIT TP-2
ELEV.=484.0±
ASSUMED E.S.H.G.W. ELEV.=482.4±

0"-6" Ap HORIZON: FINE SANDY LOAM
6"-19" B HORIZON: FINE SANDY LOAM
19"-29" LAYER C: FINE SANDY LOAM
29"-65" LAYER C2: GRAVELLY LOAMY SAND WITH COBBLES
REDOX OBSERVED @ 25"
WEEDING OBSERVED @ 55"
STANDING WATER OBSERVED @ 62"

TEST PIT TP-3
ELEV.=494.1±
ASSUMED E.S.H.G.W. ELEV.=492.5±

0"-8" Ap HORIZON: SANDY LOAM
8"-19" B HORIZON: SANDY LOAM
19"-31" LAYER C: GRAVELLY COARSE SAND WITH COBBLES
31"-90" LAYER C2: GRAVELLY LOAMY SAND WITH COBBLES
REDOX OBSERVED @ 85"
STANDING WATER OBSERVED @ 89"

TEST PIT TP-4
ELEV.=518.1±
ASSUMED E.S.H.G.W. ELEV.=515.9±

0"-8" A HORIZON: FINE SANDY LOAM
8"-26" B HORIZON: GRAVELLY FINE SANDY LOAM
26"-83" LAYER C: GRAVELLY LOAMY SAND WITH COBBLES
REDOX OBSERVED @ 36"
WATER NOT OBSERVED

RECORD OWNERS:

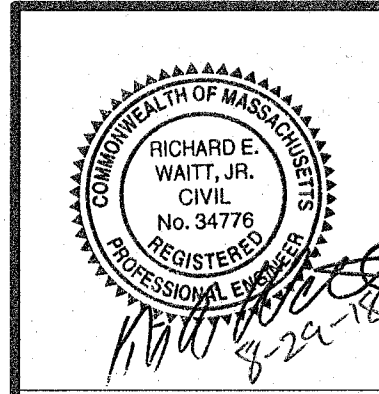
SUNNY SIDE STORAGE, LLC
313 PALMER ROAD
WARE, MASSACHUSETTS 01082
- DEED BOOK 8803, PAGE 60

REFERENCES:

- 1910 LAYOUT OF PALMER ROAD - PLAN BOOK 174, PLAN 23
DOCUMENTS RECORDED AT THE HAMPSHIRE DISTRICT REGISTRY OF DEEDS.

REVISIONS

NO.	DATE	DESCRIPTION	BY	CHK'D
1	8.29.18	100'-FT BUFFER TO PANELS	JG	CAR



313 PALMER ROAD

PERMIT SITE PLAN
LOCATED IN
WARE, MASSACHUSETTS
(HAMPSHIRE COUNTY)

PREPARED FOR
DYNAMIC ENERGY SOLUTIONS, LLC
SCALE: 1" = 50' DATE: JULY 2, 2018

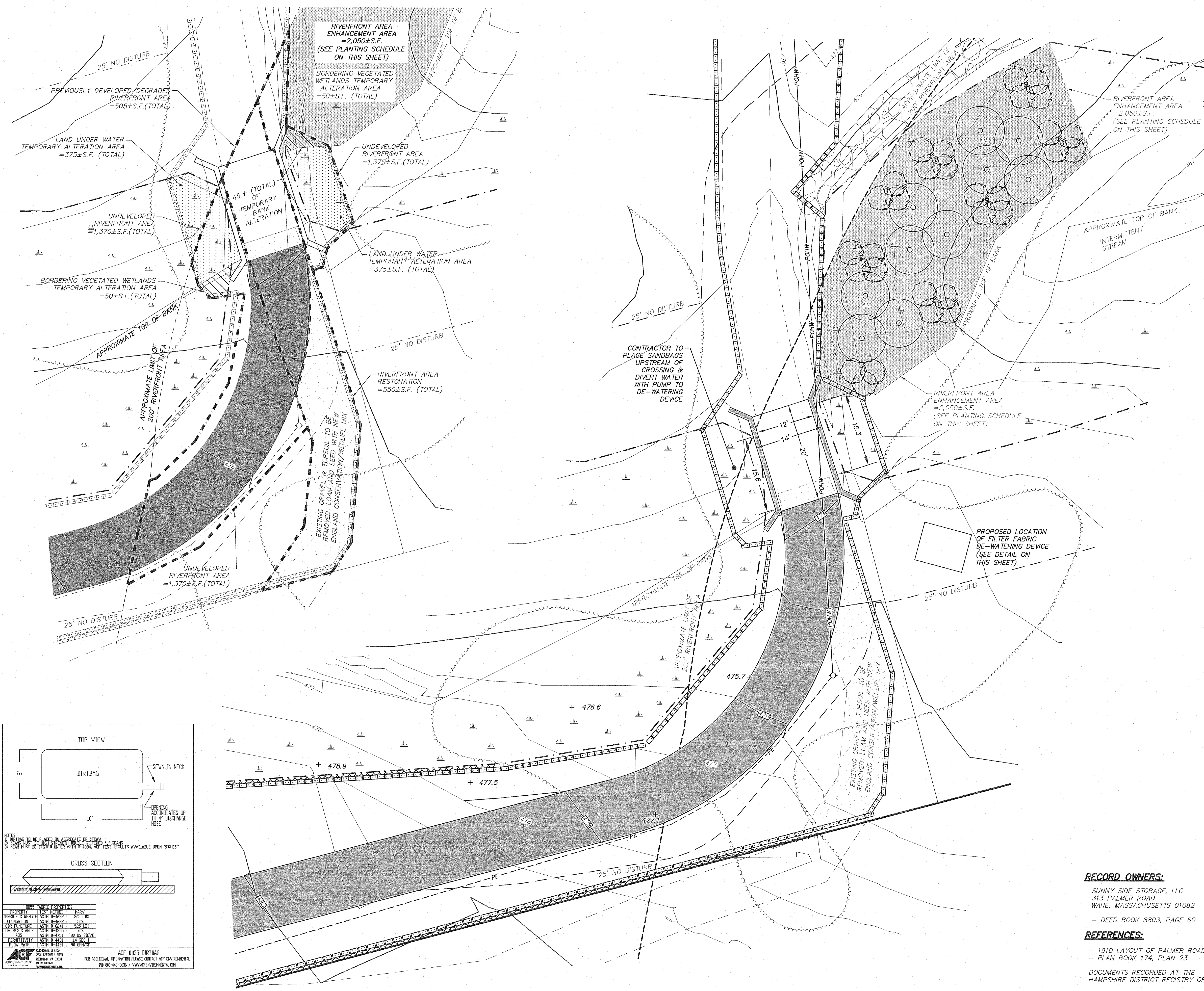
MERIDIAN ASSOCIATES

500 CUMMINGS CENTER, SUITE 3950 BEVERLY, MASSACHUSETTS 01915
TELEPHONE: (978) 299-0447
WWW.MERIDIANASSOC.COM

SHEET No. 7 OF 12 PROJECT No. 6044

FOR PERMITTING ONLY
NOT FOR CONSTRUCTION

SEE NOTES AND LEGEND
ON SHEET 5 OF 12

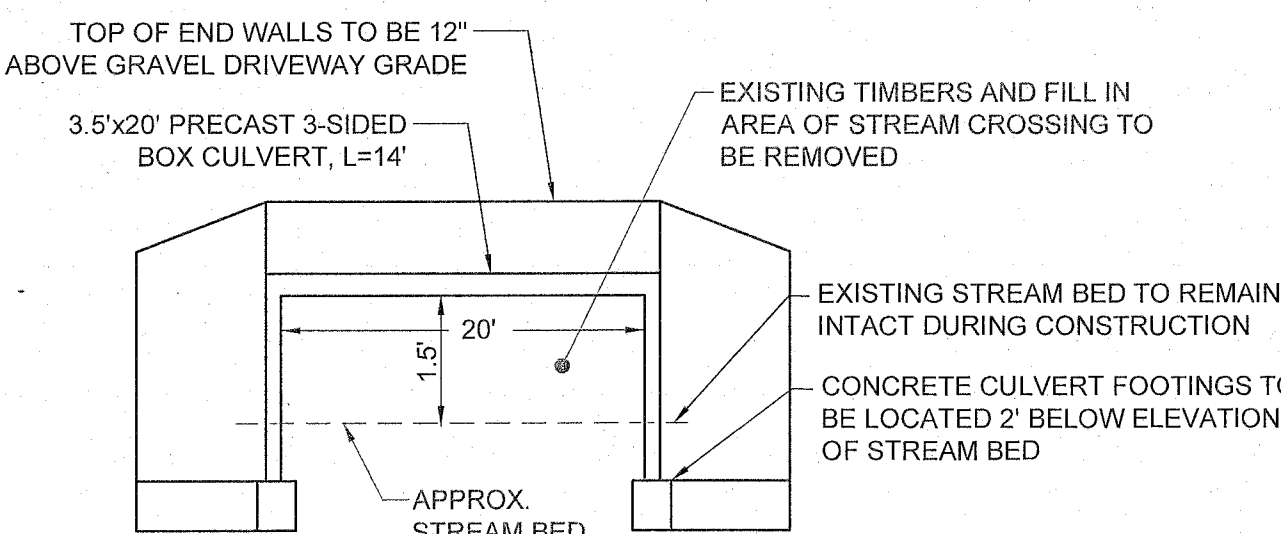


PLANT SCHEDULE:

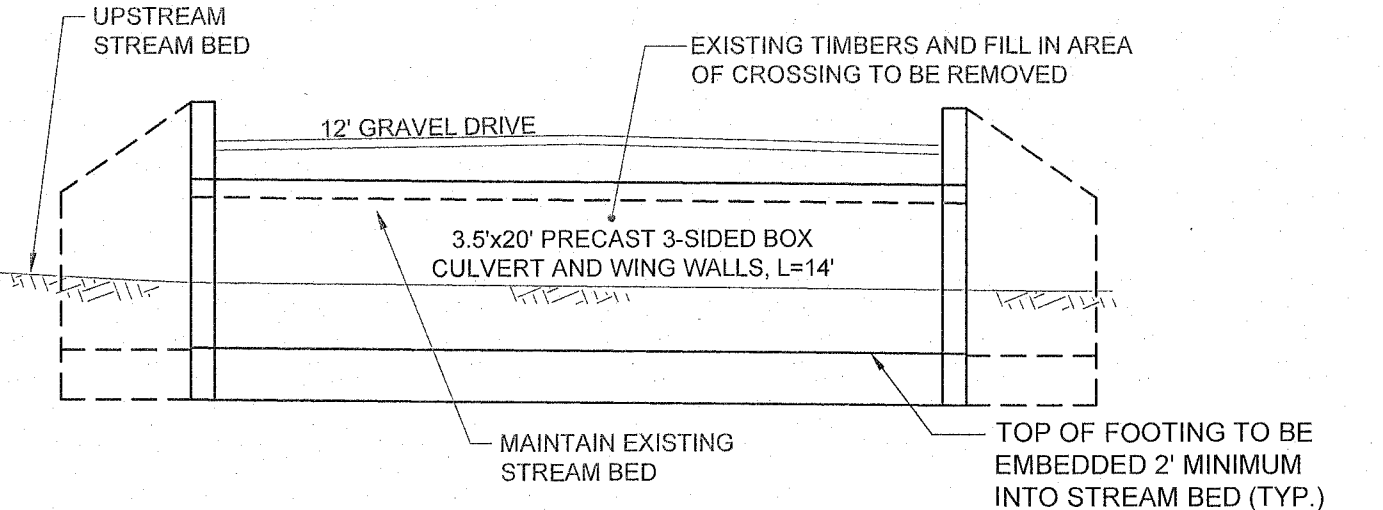
TREES			
QTY	LATIN NAME	COMMON NAME	SIZE
4	ACER RUBRUM	RED MAPLE	1-1 1/2" CALIPER, 4-6' HEIGHT
3	NYSSA SYLVATICA	TUPELO	1-1 1/2" CALIPER, 4-6' HEIGHT
3	BETULA ALLEGHANIENSIS	YELLOW BIRCH	1-1 1/2" CALIPER, 4-6' HEIGHT
SHRUBS			
QTY	LATIN NAME	COMMON NAME	SIZE
8	VACCINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	2-3' HEIGHT
8	ILEX VERTICILLATA	WINTERBERRY HOLLY	2-3' HEIGHT
7	SAMBUCUS CANADENSIS	ELDERBERRY	2-3' HEIGHT
7	CORNUS AMOMUM	SILKY DOGWOOD	2-3' HEIGHT

CULVERT NOTES:

1. PRECAST CULVERT AND WING WALLS TO BE PROVIDED BY SHEA CONCRETE, INC. OR APPROVED EQUAL BY DESIGN ENGINEER.
2. CONTRACTOR TO ENSURE MINIMUM OF 6" OF COVER OVER PROPOSED CULVERT.
3. STREAM BED SUBSTRATE SHALL BE SIMILAR IN SIZE, SHAPE AND MATERIAL TO THE STREAM BED UPSTREAM AND DOWNSTREAM.
4. ANY DOWNSTREAM DEBRIS AND OBSTACLES TO BE REMOVED TO ALLOW FREE FLOW THROUGH CROSSING.
5. APPROXIMATE BANKFULL WIDTH=15.5 FEET. MINIMUM REQUIRE CULVERT WIDTH=18.6 FEET. PROPOSED CULVERT WIDTH=20 FEET.
6. MINIMUM REQUIRED OPENNESS RATIO=0.82 PROPOSED OPENNESS RATIO=2.15
7. PROPOSED CROSSING IS DESIGNED TO MEET THE MASSACHUSETTS DEP STREAM CROSSING STANDARDS.

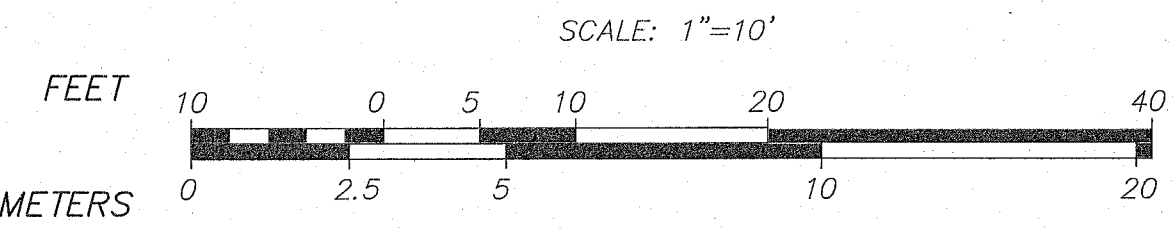


CULVERT END SECTION



CULVERT PROFILE

GRAPHIC SCALE



RECORD OWNERS:

SUNNY SIDE STORAGE, LLC
313 PALMER ROAD
WARE, MASSACHUSETTS 01082
- DEED BOOK 8803, PAGE 60

REFERENCES:

- 1910 LAYOUT OF PALMER ROAD
- PLAN BOOK 174, PLAN 23
DOCUMENTS RECORDED AT THE HAMPSHIRE DISTRICT REGISTRY OF DEEDS.

REVISIONS

NO.	DATE	DESCRIPTION	BY	CHK'D
1	8.29.18	100-FT BUFFER TO PANELS	JG	CAR

FOR PERMITTING ONLY
NOT FOR CONSTRUCTION

TEMPORARY LAND UNDER WATER ALTERATION
AREAS TO BE RESTORED IN-KIND USING THE
SAME SOIL AND AGGREGATE

EROSION CONTROL BLANKETS TO BE APPLIED ON
ALL SLOPES GREATER THAN OR EQUAL TO 3:1
SEE SHEET 11 OF 12 FOR DETAIL

TEMPORARY BORDERING VEGETATED WETLAND AND
BANK ALTERATION AREAS TO BE SEEDDED WITH
NEW ENGLAND FACW MEADOW MIX FROM ERNST
CONSERVATION SEEDS, OR APPROVED EQUAL

313 PALMER ROAD

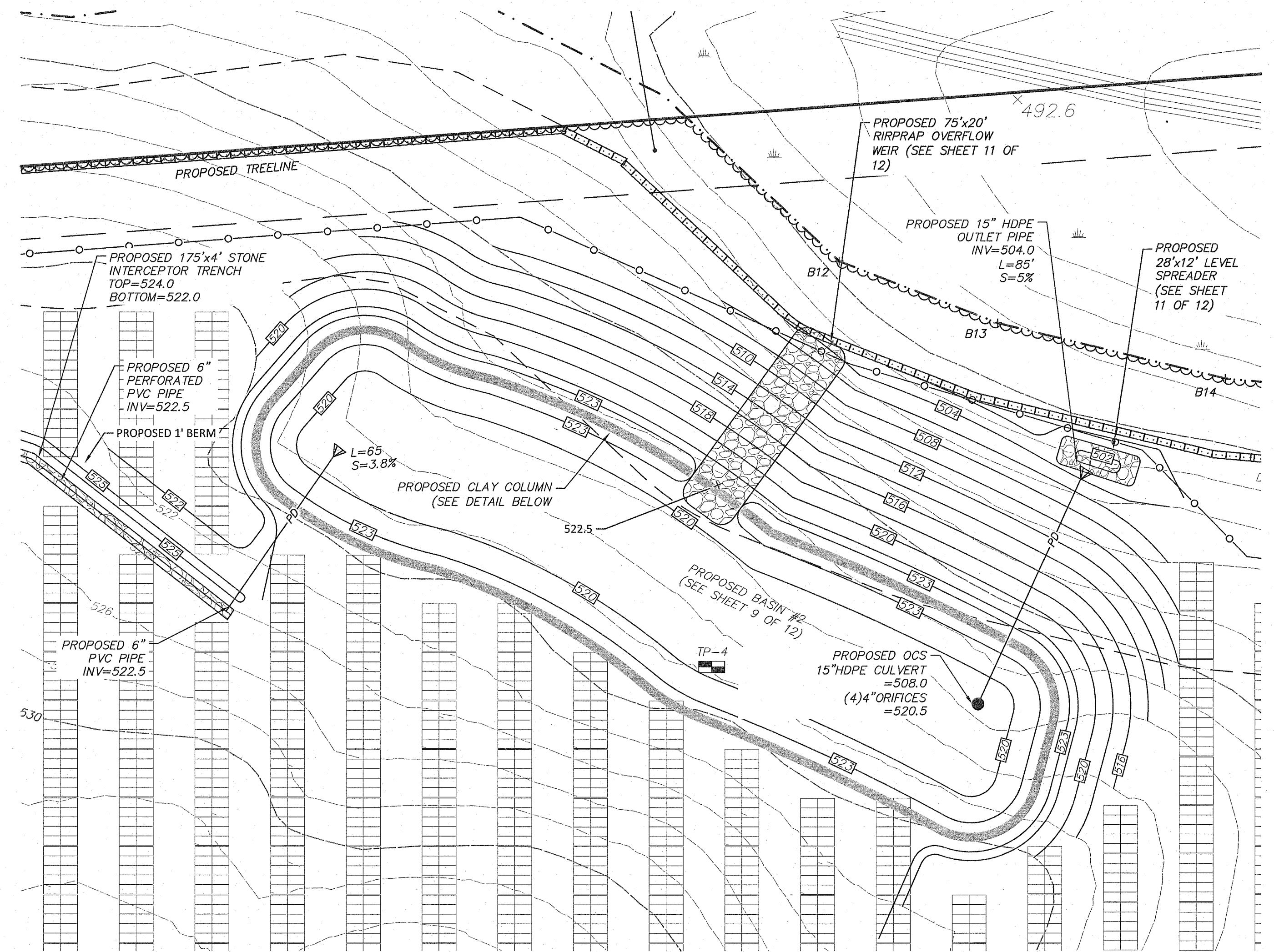
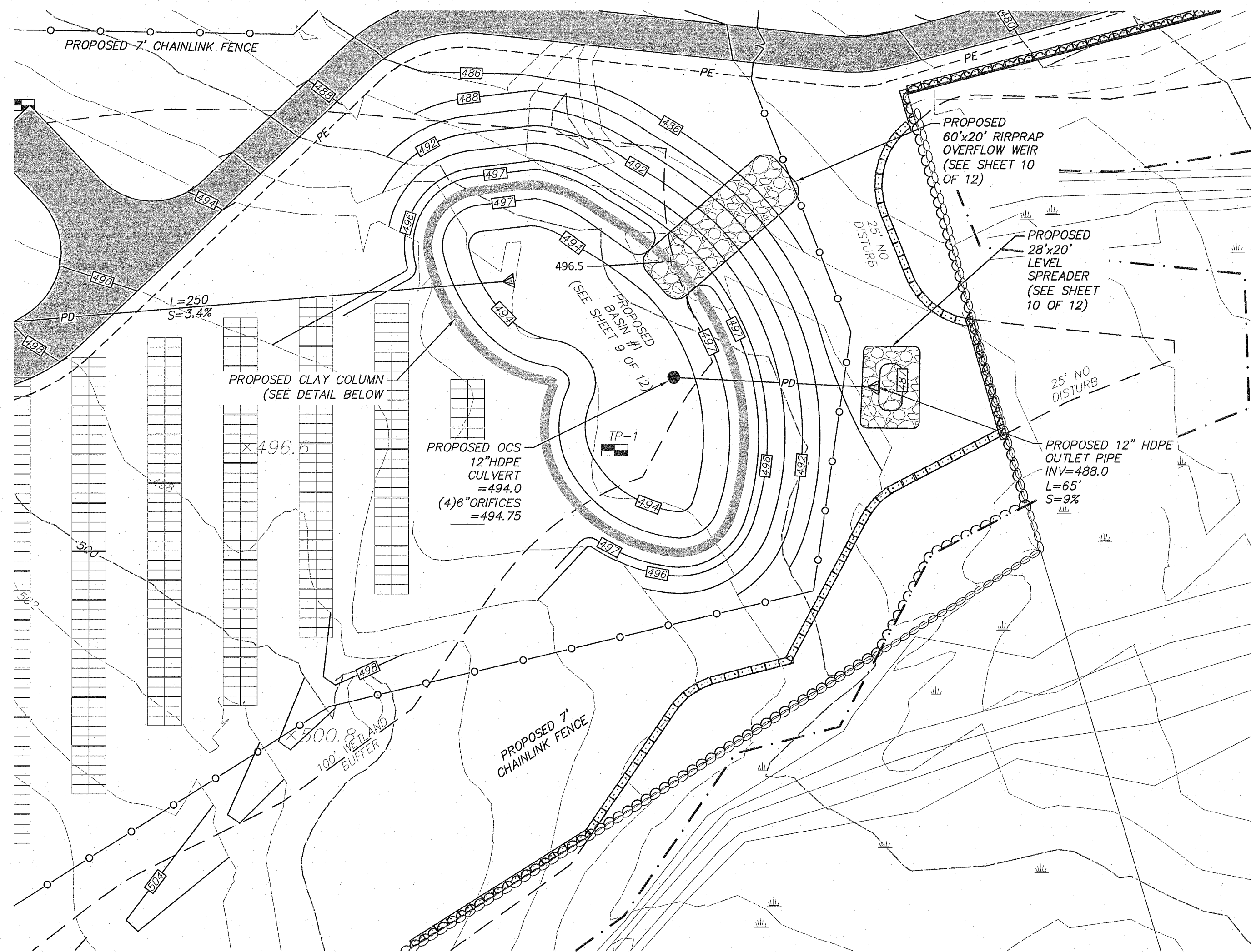
CULVERT CROSSING DETAIL
LOCATED IN
WARE, MASSACHUSETTS
(HAMPSHIRE COUNTY)

PREPARED FOR
DYNAMIC ENERGY SOLUTIONS, LLC
SCALE: 1"=10' DATE: JULY 2, 2018

MERIDIAN ASSOCIATES

500 CUMMINGS CENTER, SUITE 5950 BEVERLY, MASSACHUSETTS 01915
69 MILK STREET, SUITE 302 WESTBOROUGH, MASSACHUSETTS 01581
TELEPHONE: (978) 299-0447 TELEPHONE: (508) 871-7030
WWW.MERIDIANASSOC.COM

SHEET No. 8 OF 12 PROJECT No. 6044



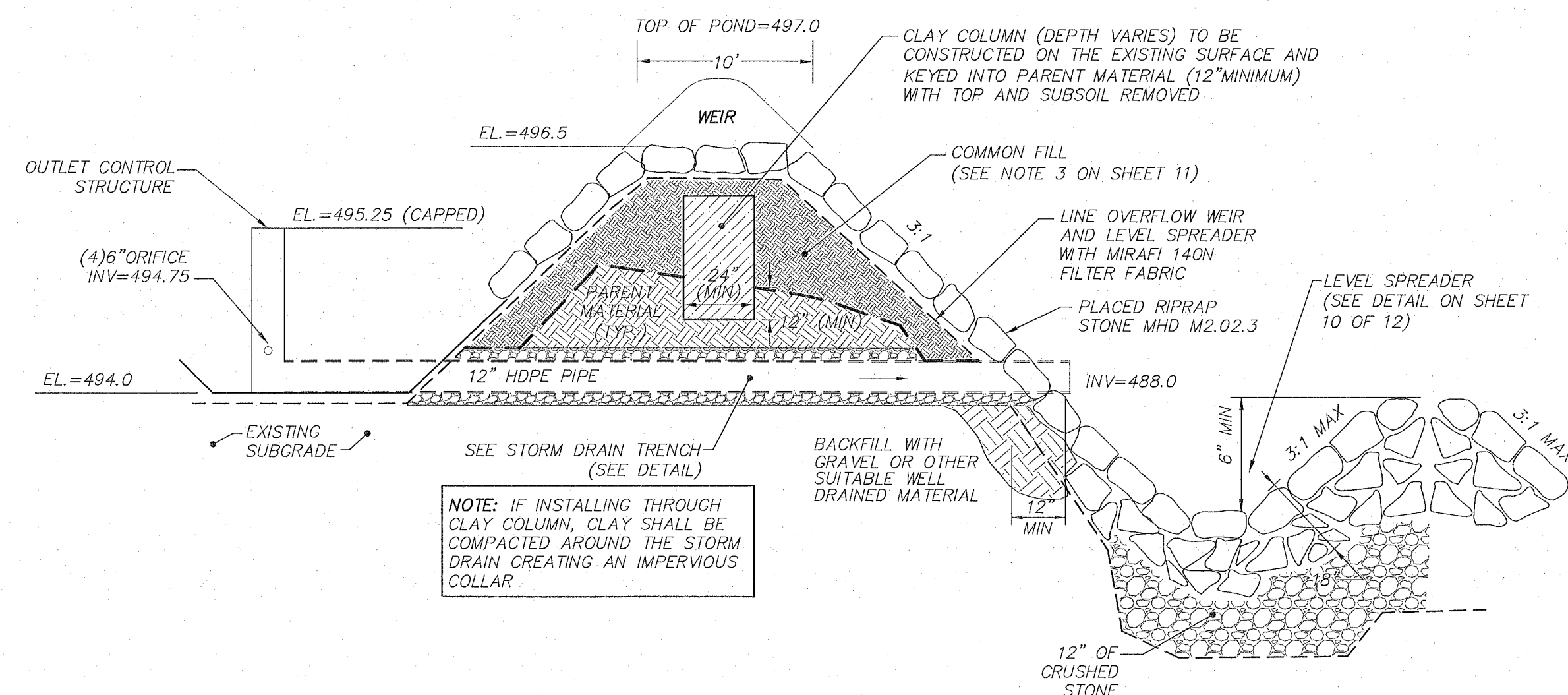
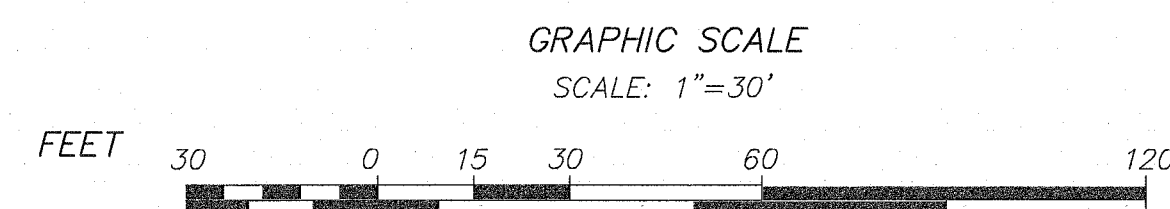
UNOFFICIAL SOILS INFORMATION

DATE: JUNE 08, 2018
 CONDUCTED BY: ANDREW RODRIGUEZ, SE (13890)
 TEST PIT TP-1
 ELEV.=491.6±
 ASSUMED E.S.H.G.W. ELEV.=489.7±

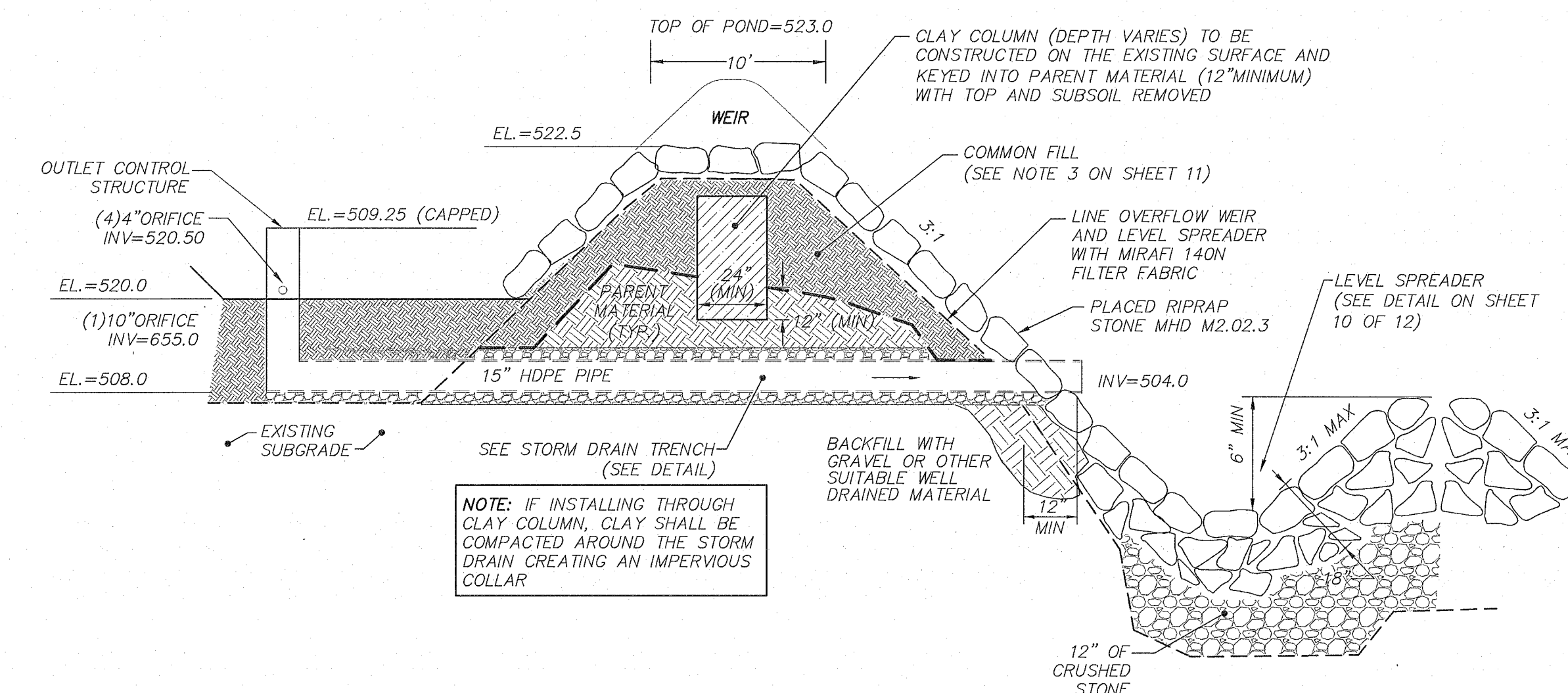
0'-6" A_p HORIZON: FINE SANDY LOAM
 6"-23" B HORIZON: FINE SANDY LOAM
 23"-109" LAYER C: LOAMY SAND
 WEEDING OBSERVED @ 105"
 REDOX NOT OBSERVED

TEST PIT TP-4
 ELEV.=518.1±
 ASSUMED E.S.H.G.W. ELEV.=515.9±
 0'-8" A HORIZON: FINE SANDY LOAM
 8'-26" B HORIZON: GRAVELLY FINE SANDY LOAM
 26'-83" LAYER C: GRAVELLY LOAMY SAND WITH COBBLES
 REDOX OBSERVED @ 36"
 WATER NOT OBSERVED

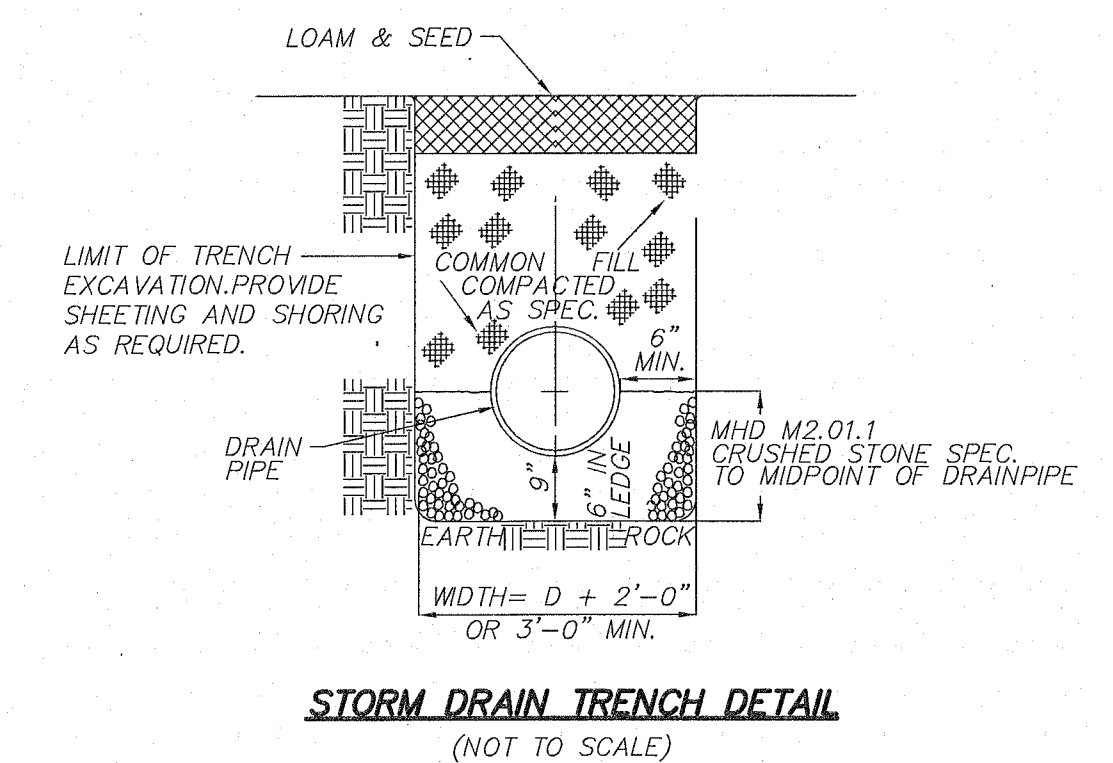
PROPOSED INFILTRATION BASIN #1 OUTLETS AND OVERFLOW WEIR WITH LEVEL SPREADER DETAIL (NOT TO SCALE)



PROPOSED INFILTRATION BASIN #1 OUTLETS AND OVERFLOW WEIR WITH LEVEL SPREADER DETAIL (NOT TO SCALE)



PROPOSED INFILTRATION BASIN #2 OUTLETS AND OVERFLOW WEIR WITH LEVEL SPREADER DETAIL (NOT TO SCALE)



STORM DRAIN TRENCH DETAIL (NOT TO SCALE)

FOR PERMITTING ONLY
 NOT FOR CONSTRUCTION

SEE NOTES AND LEGEND
 ON SHEET 5 OF 12

REVISIONS

NO.	DATE	DESCRIPTION	BY	CHK'D
1	8.29.18	100-FT BUFFER TO PANELS	JG	CAR

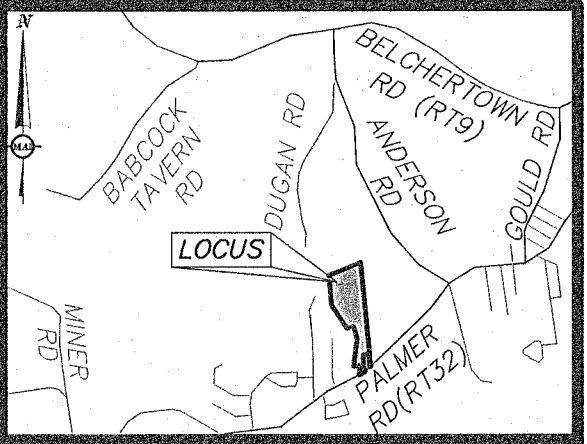
313 PALMER ROAD
 INFILTRATION BASIN DETAIL
 LOCATED IN
 WARE, MASSACHUSETTS
 (HAMPSHIRE COUNTY)

PREPARED FOR
 DYNAMIC ENERGY SOLUTIONS, LLC
 SCALE: 1"= 30' DATE: JULY 2, 2018

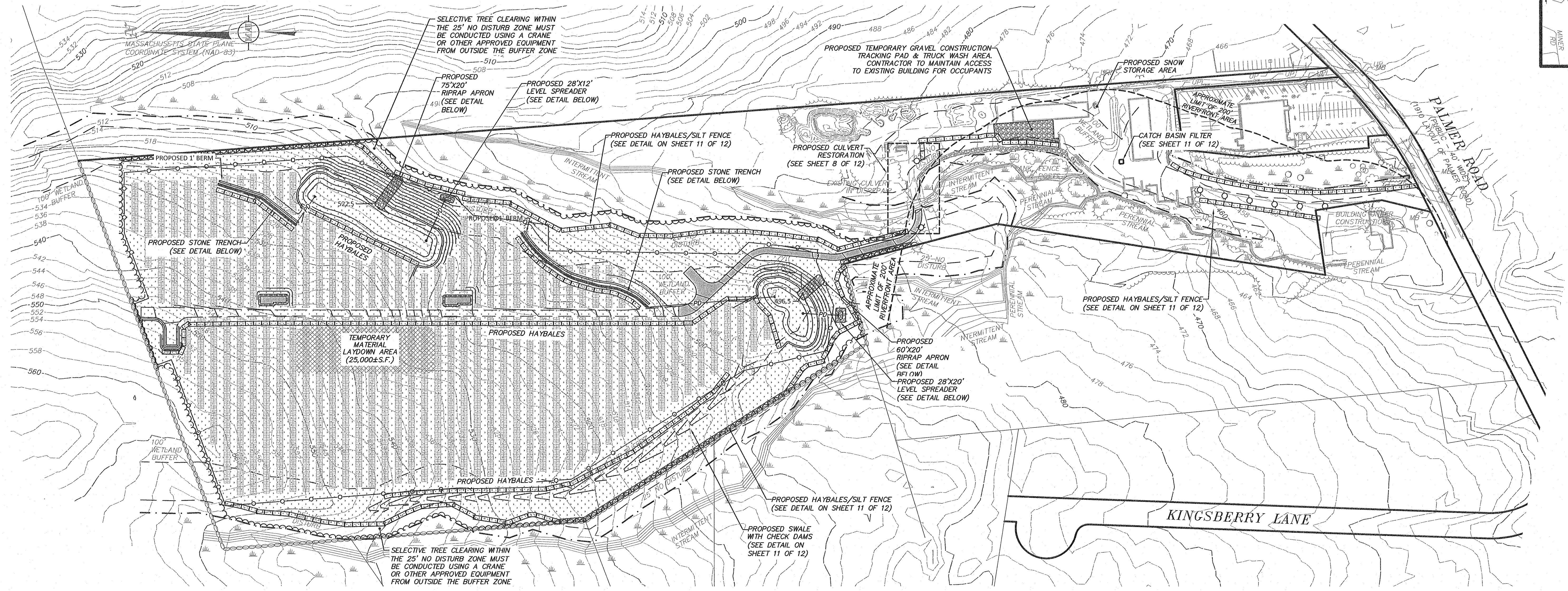
MERIDIAN ASSOCIATES

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 WWW.MERIDIANASSOC.COM

SHEET No. 9 OF 12 PROJECT No. 6044



LOCUS MAP:
(NOT TO SCALE)



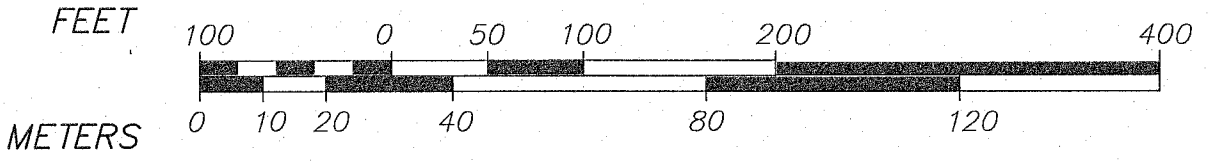
WOODED AREAS OUTSIDE FENCE TO BE CUT THAT DO NOT REQUIRE GRADING ARE TO HAVE STUMPS REMAIN AND THE GROUND STABILIZED WITH WOOD MULCH/GRINDINGS AND SEEDED WITH NEW ENGLAND CONSERVATION/WILDLIFE MIX. IN AREAS WHERE GRADING IS NEEDED (CUTS AND FILLS), THE STUMPS SHALL BE REMOVED AND THE AREA STABILIZED WITH LOAM AND SEEDED AS NEEDED. NO NEW ENGLAND CONSERVATION /WILDLIFE SEED MIX IS TO BE PLACED WITHIN THE 25' NO DISTURB ZONE.

EROSION CONTROL BLANKETS TO BE APPLIED ON ALL SLOPES GREATER THAN OR EQUAL TO 3:1 SEE SHEET 11 OF 12 FOR DETAIL

EROSION CONTROL LEGEND:

- PROPOSED HAYBALES & SILT FENCE
- NEW ENGLAND CONSERVATION/WILDLIFE MIX PLANTING AREA
- RIPRAP AREA

GRAPHIC SCALE
SCALE: 1"=100'



313 PALMER ROAD

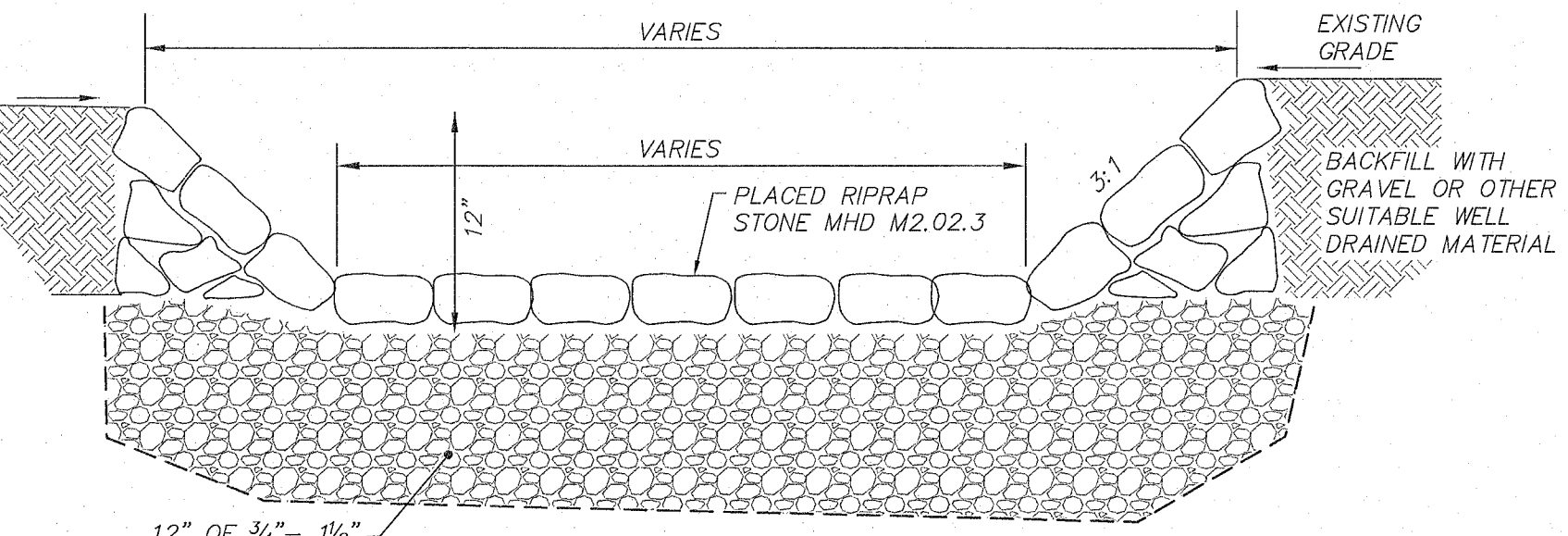
EROSION AND SEDIMENT CONTROL PLAN
LOCATED IN
WARE, MASSACHUSETTS
(HAMPSHIRE COUNTY)

PREPARED FOR
DYNAMIC ENERGY SOLUTIONS, LLC
SCALE: 1"= 100' DATE: JULY 2, 2018

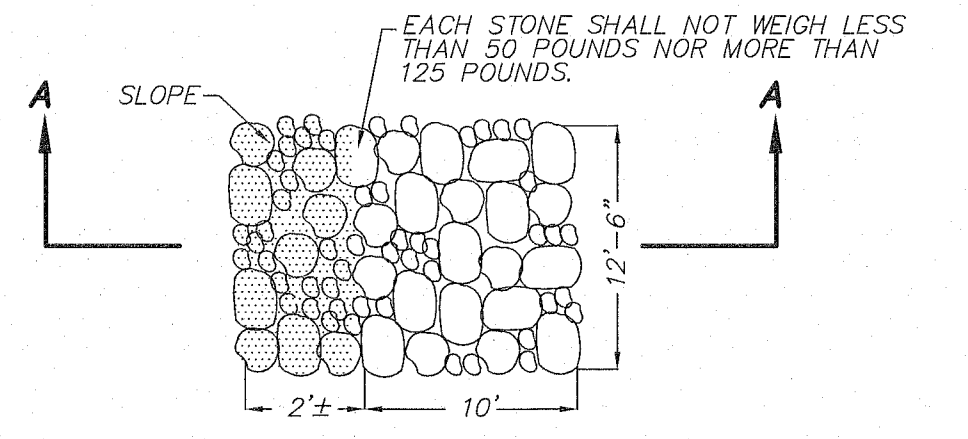
MERIDIAN ASSOCIATES

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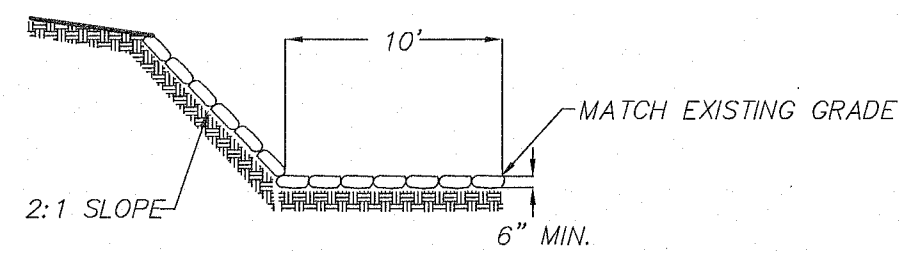
SHEET No. 10 OF 12 PROJECT No. 6044



TYPICAL
LEVEL SPREADER
(NOT TO SCALE)

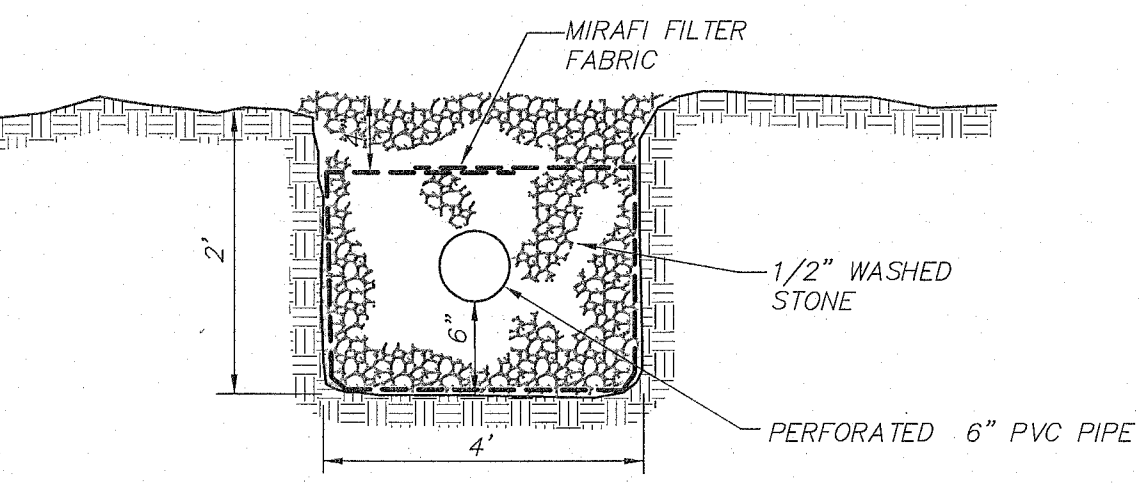


PLAN VIEW



SECTION A-A

STONE RIPRAP APRON DETAIL
(NOT TO SCALE)



STONE INTERCEPTOR TRENCH DETAIL
(NOT TO SCALE)

REVISIONS

NO.	DATE	DESCRIPTION	BY	CHK'D
1	8.29.18	100-FT BUFFER TO PANELS	JG	CAR

FOR PERMITTING ONLY
NOT FOR CONSTRUCTION

SEE NOTES AND LEGEND
ON SHEET 5 OF 12

NOTES:

- EXISTING GROUND WITHIN THE PROPOSED CHAINLINK FENCE SHALL BE CLEARED, STUMPED AND RE-GRADED TO ELIMINATE MINOR SURFACE DISTURBANCES. RE-VEGETATION OF THE SITE SHALL BE ESTABLISHED WITH LOW GROWTH GROUND COVER.
- THE PROPOSED HAYBALE & SILT FENCE LINE ALSO DEPICTS THE EXTENT OF TREE CLEARING TO BE PERFORMED ON THE PROJECT SITE. NO TREES OUTSIDE THE LIMIT OF WORK LINE ARE TO BE REMOVED BY THE CONTRACTOR.
- COMMON FILL (SITE GRADING AREAS) SHALL CONSIST OF MINERAL SOIL SUBSTANTIALLY FREE FROM ORGANIC MATERIALS, LOAM, WOOD TRASH AND OTHER OBJECTIONABLE MATERIALS WHICH MAY BE COMPRESSIBLE OR WHICH CANNOT BE PROPERLY COMPACTED. SELECT COMMON FILL SHALL NOT CONTAIN STONES LARGER THAN 2-IN. IN THE LARGEST DIAMETER AND SHALL HAVE A MAXIMUM OF 85% PASSING THE NO. 40 SIEVE, AND A MAXIMUM OF 20% PASSING THE NO. 200 SIEVE. SELECT COMMON FILL SHALL NOT CONTAIN GRANITE BLOCKS, BROKEN CONCRETE, MASONRY RUBBLE OR OTHER SIMILAR MATERIALS. IT SHALL HAVE PHYSICAL PROPERTIES SUCH THAT IT CAN BE READILY SPREAD AND COMPACTED DURING FILLING. SNOW, ICE AND FROZEN SOIL WILL NOT BE PERMITTED. SOIL EXCAVATED FROM THE STRUCTURE AREAS AND WHICH MEETS THE ABOVE REQUIREMENTS MAY BE USED.
- ORDINARY FILL SHALL BE WELL GRADED, NATURAL INORGANIC SOIL, FREE OF ORGANIC OR OTHER WEAK OR COMPRESSIBLE MATERIALS, FROZEN MATERIALS, AND OF STONES LARGER THAN TWO THIRDS (2/3) THE LIFT THICKNESS. IT SHALL BE OF SUCH NATURE AND CHARACTER THAT IT CAN BE COMPACTED TO THE SPECIFIED DENSITIES IN A REASONABLE LENGTH OF TIME. IT SHALL BE FREE OF PLASTIC CLAY, OF ALL MATERIALS SUBJECT TO DECAY, DECOMPOSITION, OR DISSOLUTION, AND OF CINDERS OR OTHER MATERIALS THAT WILL CORRODE PIPING OR OTHER METAL. IT SHALL HAVE A MINIMUM DRY DENSITY OF NOT LESS THAN 120 POUNDS PER CUBIC FOOT. MATERIAL FROM EXCAVATION ON THE SITE MAY BE USED AS ORDINARY FILL IF IT MEETS THE ABOVE REQUIREMENTS. ORDINARY FILL SHALL HAVE A MAXIMUM OF 60% PASSING THE #40 SIEVE, AND A MAXIMUM OF 20% PASSING THE #200 SIEVE. IT SHOULD NOT CONTAIN BROKEN CONCRETE, MASONRY RUBBLE OR OTHER SIMILAR MATERIALS, AND SHALL HAVE PHYSICAL PROPERTIES SUCH THAT IT CAN BE READILY SPREAD AND COMPACTED DURING FILLING. SNOW, ICE AND FROZEN SOIL SHALL NOT BE PERMITTED.
- SELECT COMMON FILL (ROADWAY AREAS) SHALL BE PLACED IN LAYERS HAVING A MAXIMUM THICKNESS OF 8 IN. MEASURED BEFORE COMPACTION. EACH LAYER OF FILL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DRY DENSITY DETERMINED BY THE ASTM D1557. COMPACTION OF STRUCTURAL FILL SHALL CONSIST OF FULLY LOADED TEN WHEEL TRUCKS, A TRACTOR DOZER WEIGHING AT LEAST 30,000 LBS AND OPERATED AT FULL SPEED, A HEAVY VIBRATORY ROLLER, OR OTHER METHOD ONLY AS APPROVED BY THE ENGINEER. COMPACTION OF SELECT COMMON FILL IN CONFINED AREAS ADJACENT TO STRUCTURES SHALL BE ACCOMPLISHED BY HAND OPERATED VIBRATORY EQUIPMENT OR MECHANICAL TAMPERS APPROVED BY THE ENGINEER. AS A MINIMUM, COMPACTION OF SELECT COMMON FILL SHALL CONSIST OF FOUR COVERAGES OF THE APPROVED EQUIPMENT.
- SITE PREPARATION SHALL INCLUDE CLEARING, CRUBBING, DELETERIOUS SOILS, VEGETATION AND DEBRIS. ALL TREES, STUMPS, BRUSH, SHRUBS, ROOTS, GRASS, WEEDS, RUBBISH, STONES LARGER THAN 2-IN. IN THE LARGEST DIAMETER AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF FROM AREAS TO BE FILLED AND COMPACTED. AREAS OUTSIDE OF THE LIMITS OF WORK SHALL BE PROTECTED FROM DAMAGE AND NO EQUIPMENT OR MATERIALS SHALL BE STORED IN THESE AREAS. NO STUMPS, TREES, LIMBS, OR BRUSH SHALL BE BURIED IN ANY FILLS OR EMBANKMENTS. NO STUMPING OR GRUBBING SHALL BE CONDUCTED OUTSIDE THE PROPOSED CHAINLINK FENCE AROUND THE ARRAY.
- EROSION AND SEDIMENT CONTROL, BOTH DURING AND AFTER CONSTRUCTION, SHALL BE PROVIDED AS REQUIRED TO RETAIN SEDIMENT ONSITE, AND TO CONTROL EROSION OF EMBANKMENTS, TEMPORARY AND FINAL EXPOSED SLOPES, AND TEMPORARY MATERIAL STOCKPILE(S). SILT FENCES, CHECK DAMS, DRAINAGE DITCHES OR SWALES, TEMPORARY SEEDING, AND PRE-MANUFACTURED TEXTILES, CECOTUBES, GEOGRID, CELLULAR GEOWEB, ETC., SHALL BE UTILIZED AS APPROPRIATE. EROSION AND SETTLEMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH ALL PERMITS AND CODES AND THIS SPECIFICATION. DURING THE EXCAVATION OF THE WORK AT THE SITE, OPERATIONS SHALL BE CONTINUOUSLY MONITORED TO AVOID THE CREATION OF CONDITIONS THAT COULD LEAD TO EXCESSIVE EROSION OF SOIL WITH SURFACE RUNOFF FROM THE WORK AREAS. CONTROLS SHALL BE PROVIDED TO PROTECT THE WATER QUALITY AND SHALL BE IN ACCORDANCE WITH PROJECT DOCUMENTS AND ALL LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS. EROSION CONTROL MEASURES SHALL BE EMPLOYED TO REDUCE EROSION OF SLOPES AND SILTATION OF OFF-SITE OUTFALLS AND TRIBUTARIES.
- UPON SIGNS OF CONCENTRATED FLOW BY EVIDENCE OF GULLYING OR RILLING IN DISTURBED AREAS, HAYBALES SHALL BE PLACED IN THESE AREAS, SPACED EVERY 50' IN THE UPGRADIENT SLOPE.
- ALL DISTURBED AREAS SHALL BE RE-ESTABLISHED WITH "NEW ENGLAND CONSERVATION/WILDLIFE MIX" OR APPROVED EQUAL.

**ESTABLISHED GUIDELINES FOR NEW
ENGLAND CONSERVATION/WILDLIFE MIX**
NEW ENGLAND WETLAND PLANTS, INC.

GENERAL:

THE MIX PROVIDES A PERMANENT COVER OF GRASSES, WILDFLOWERS AND LEGUMES TO PROVIDE BOTH GOOD EROSION CONTROL AND WILDLIFE HABITAT VALUE. THIS MIX IS DESIGNED TO BE A NO MAINTENANCE SEEDING, AND IT IS APPROPRIATE TO CUT AND FILL SLOPES, DETENTION BASIN SLOPES, AND DISTURBED AREAS ADJACENT TO COMMERCIAL AND RESIDENTIAL PROJECTS. ALWAYS APPLY ON CLEAN BARE SOIL. THE MIX MAY BE APPLIED BY HYDRO-SEEDING, BY MECHANICAL SPREADER, OR ON SMALL SITES IT CAN BE SPREAD BY HAND. LIGHTLY RAKE, OR ROLL TO ENSURE PROPER SEED TO SOIL CONTACT. BEST RESULTS ARE OBTAINED WITH A SPRING SEEDING. LATE SPRING THROUGH EARLY SUMMER SEEDING WILL BENEFIT WITH A LIGHT MULCHING OF WEED-FREE STRAW TO CONSERVE MOISTURE. IF CONDITIONS ARE DRIER THAN USUAL, WATERING WILL BE REQUIRED. LATE FALL AND WINTER DORMANT SEEDING REQUIRE AN INCREASE IN THE SEEDING RATE. FERTILIZATION IS NOT REQUIRED UNLESS THE SOILS ARE PARTICULARLY INFERTILE. PREPARATION OF A CLEAN WEED FREE SOIL SURFACE IS NECESSARY FOR OPTIMAL RESULTS.

SPECIES LIST:

- ELYMUS VIRGINICUS
- SCHIZACHYRIUM SCOPARIUM
- FESTUCA RUBRA
- ANDROPOGON CERARDII
- CHAMAECRISTA FASCICULATA
- PANICUM OLANDESTINUM
- PANICUM VIRCATUM
- SORGHASTRUM NUTANS
- HELENIUM AUTUMNALE
- HELIOPSIS HELIANTHOIDES
- VERBENA HASTATA
- ASCLEPIAS SYRIACA
- ASTER UMBELLATUS
- EUPATORIUM PURPUREUM
- SOLIDAGO JUNCEA
- ZIZIA AUREA

SEED BED PREPARATION:

REMOVE ALL INVASIVE SPECIES, TILL EXISTING SOIL AND RAKE SMOOTH. APPLY 3" OF COMPOSTED LEAF LITTER. ALL AREAS WHERE ROOTS HAVE BEEN GRUBBED SHALL BE TILLED.

SEED APPLICATION AND RATE:

THE IDEAL PLANTING DEPTH IS 1/4-1/2". UNDER IDEAL CONDITIONS SEEDS LAYING ON THE SURFACE WILL GERMINATE. RECOMMENDED APPLICATION RATE FOR SEEDING IS 1 LBS PER 1,750 SQUARE FEET.

SEEDING DATES:

FOR FALL INSTALLATION, SEED BETWEEN AUGUST 15 AND SEPTEMBER 10. FOR SPRING INSTALLATION, SEED AS EARLY AS POSSIBLE SOMETIME BETWEEN APRIL 15 AND MAY 10.

FERTILIZATION AND SOIL REQUIREMENTS:

REFER TO MANUFACTURERS RECOMMENDATIONS

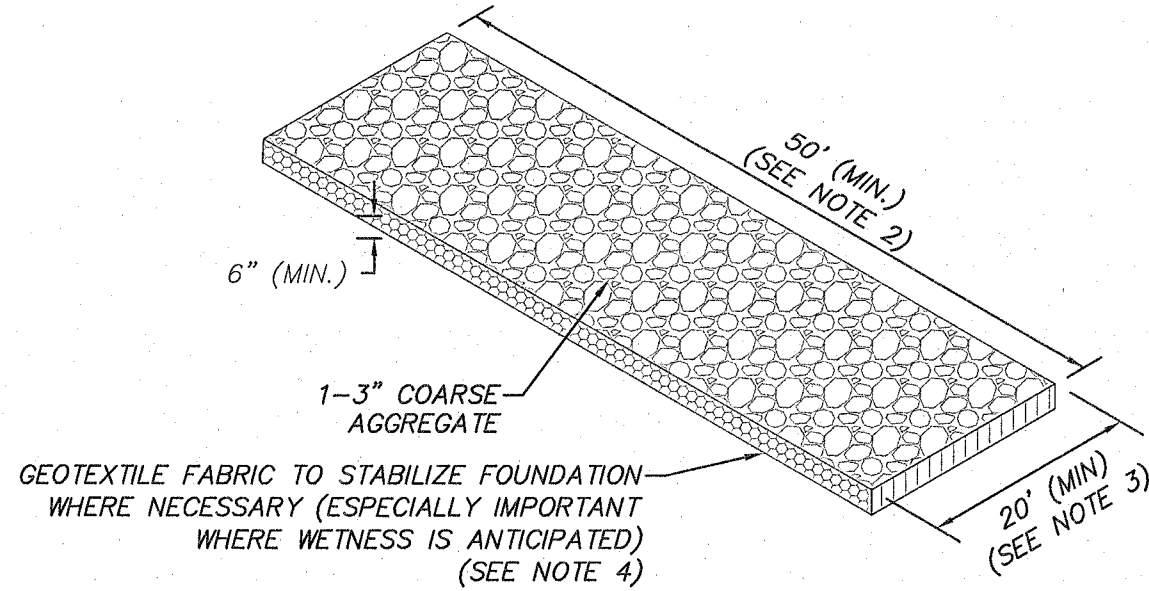
GENERAL MAINTENANCE:

REFER TO MANUFACTURERS RECOMMENDATIONS

ESTABLISHMENT:

REFER TO MANUFACTURERS RECOMMENDATIONS

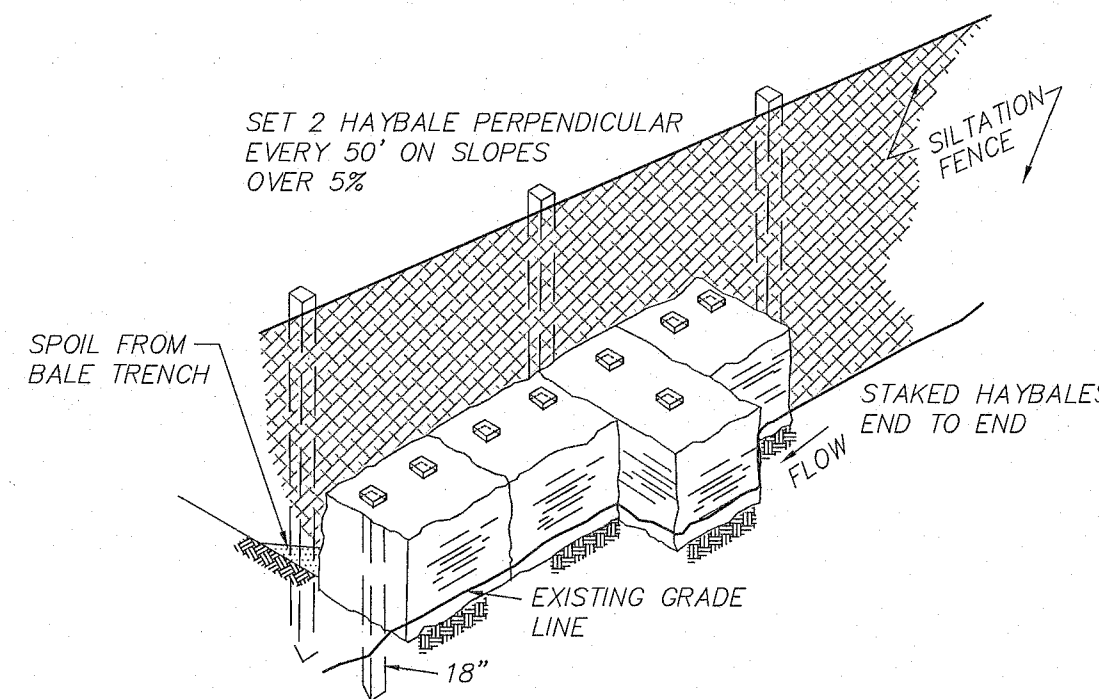
FOR PERMITTING ONLY
NOT FOR CONSTRUCTION



NOTES:

- THE SOLE PURPOSE OF THIS DETAIL IS TO PROVIDE A STABLE ENTRANCE AND EXIT FROM A CONSTRUCTION SITE OR WETLAND CROSSING AND KEEP MUD AND SEDIMENT OFF PUBLIC ROADS AND WETLANDS IN ACCORDANCE WITH THE RECOMMENDATIONS STATED IN THE "MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS" AS PREPARED BY THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- EXTEND PAD BEYOND 50 FEET FOR HEAVY CONSTRUCTION TRAFFIC AS NECESSARY. LONGER ENTRANCES WILL PROVIDE BETTER CLEANING ACTION.
- THE PAD SHALL EXTEND THE FULL WIDTH OF THE CONSTRUCTION ACCESS DRIVE.
- WHERE NECESSARY, GEOTEXTILE FILTER FABRIC SHALL BE PLACED BETWEEN THE STONE FILL AND THE EARTH SURFACE BELOW THE PAD TO REDUCE THE MIGRATION OF SOIL PARTICLES FOR UNDERLYING SOIL INTO THE STONE AND VICE VERSA.

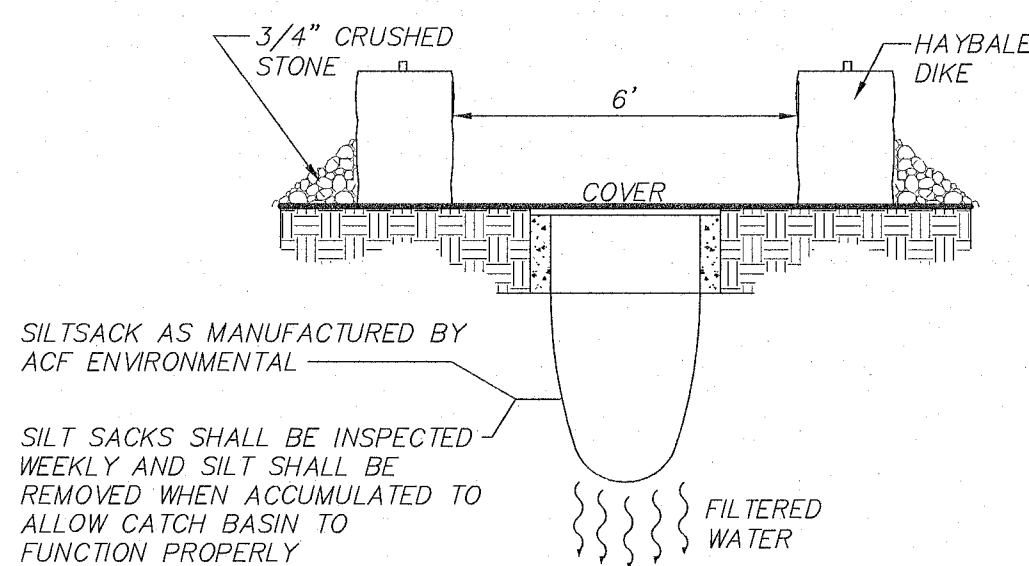
**TEMPORARY GRAVEL CONSTRUCTION
TRACKING PAD**
(NOT TO SCALE)



NOTES:

- BALES TO BE TIED WITH ORGANIC FIBER TWINE ONLY NO PLASTIC OR WIRE.
- HAYBALES TO BE SECURED WITH A MINIMUM OF TWO (2) 1" x 1" WOODEN STAKES PER BALE DRIVEN 18" MIN. INTO GRADE.

HAYBALE WITH SILT FENCE BARRIER
(NOT TO SCALE)



CATCH BASIN FILTER DETAIL
(NOT TO SCALE)

Proud Member and Participant of:
www.eastcoasterosion.com
443 Bricker Road, Bernville, PA 19506
1.800.582.4005 • +1.610.488.8496 Fax +1 610.488.8494

ECSC-2™ Double Net Straw/Coconut Rolled Erosion Control Product

Description:
The ECSC-2™ is made with uniformly distributed 70% agricultural straw, 30% coconut fiber and two polypropylene nets securely sewn together with degradable thread. The tightly compressed blankets are wrapped and include a product label, code and installation guide. The blankets are palletized for easy transportation. The ECSC-2™ has functional longevity of approximately 24 months, but will vary depending on soil and climatic conditions, and is suitable for slopes 2:1 to 1:1 and low to medium flow channels. The ECSC-2™ meets Type 3 B specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section 713.17.

Matrix:	1	2
Netting:	70% Straw	30% Coconut
Top:	Medium weight UV Stabilized Polypropylene	
Middle:	None	
Bottom:	Lightweight Photodegradable Polypropylene	

Net Opening:	Top	Middle	Bottom
Thread:	0.5" x 0.5"		0.75" x 0.75"
Thread:	Type	Color	
	Degradable Thread	White	

Roll Sizes:	Standard	A' Size	Mega
Width:	7.5 ft 2.3 m	3.75 ft 1.1 m	15 ft 4.6 m
Length:	120 ft 36.6 m	240 ft 73.2 m	120 ft 36.6 m
Weight ±10%:	57 lbs 25.9 kg	57 lbs 25.9 kg	114 lbs 51.7 kg
Area:	100 yd² 83.6 m²	100 yd² 83.6 m²	200 yd² 167.2 m²
#/Pallet:	20	9	16

Index Value Properties:	Test Method	Typical
Mass/Unit Area	ASTM D6475	9.00 oz/yd² 305.1 g/m²
Thickness	ASTM D6525	0.30 in 7.62 mm
Tensile Strength-MD	ASTM D6818	178 lb/ft 2.60 kN/m
Elongation-MD	ASTM D6818	31 %
Tensile Strength-TD	ASTM D6818	148 lb/ft 2.16 kN/m
Elongation-TD	ASTM D6818	22.4 %
Light Penetration	ASTM D6567	13 %
Density / Specific Gravity	ASTM D792	N/A %
Water Absorption	ASTM D1117	436 %

*May differ depending upon raw material variations

Slope Performance Design Values:	Test Method	Value
Cr factors	ASTM D6459	0.02
Slope Length (L)	§ 3.1	3.3-2.1 2.2:1
< 50 ft (15 m)	0.017	0.028 0.080
50 ft - 100 ft	0.031	0.059 0.125
>100 ft (30 m)	0.080	0.090 0.170

*Large-Scale Results obtained by 3rd Party GAI Accredited Independent Laboratory

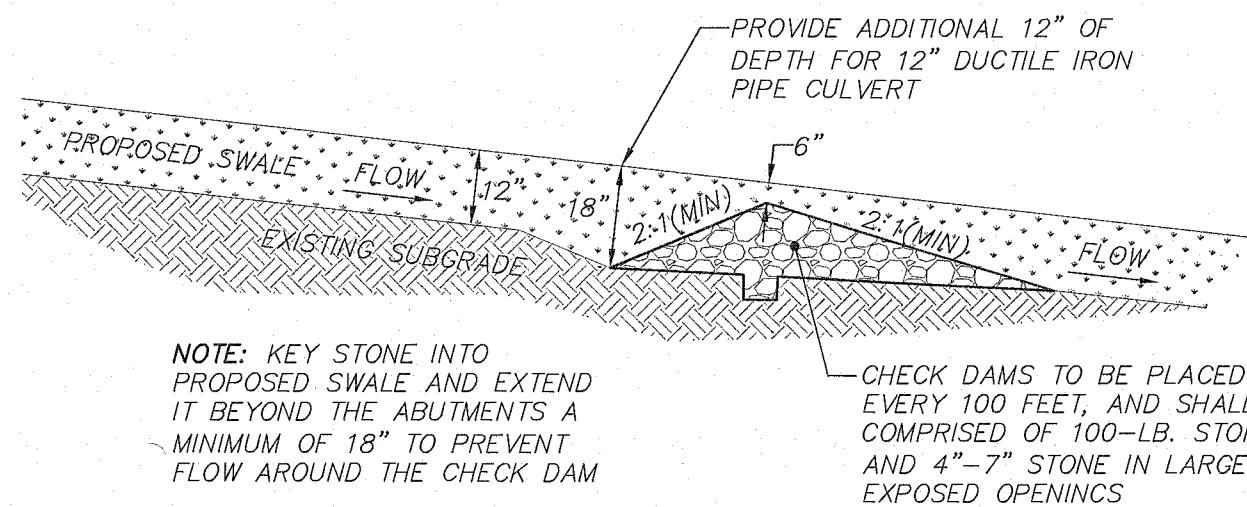
Bench-Scale Testing* (NTPER-44)	Test Method	Parameters	Results
ECTC Method 2 Rainfall		50mm (2in) / hr-30 min	SLR**=8.52
		100mm (4in) / hr-30 min	SLR**=11.01
ECTC Method 3 Shear Resistance		150mm (6in) / hr-30 min	SLR**=14.28
ECTC Method 4 Germination		Top soil, Fescue, 21 day incubation	503 %

*Bench scale tests should not be used for design purposes
**Soil Loss Ratio=Soil Loss Bare Soil/Soil Loss with RECP=1/C-Factor
***The preceding test data excerpts were reproduced with the permission of AASHTO, however, this does not constitute endorsement or approval of the product, material or device by AASHTO

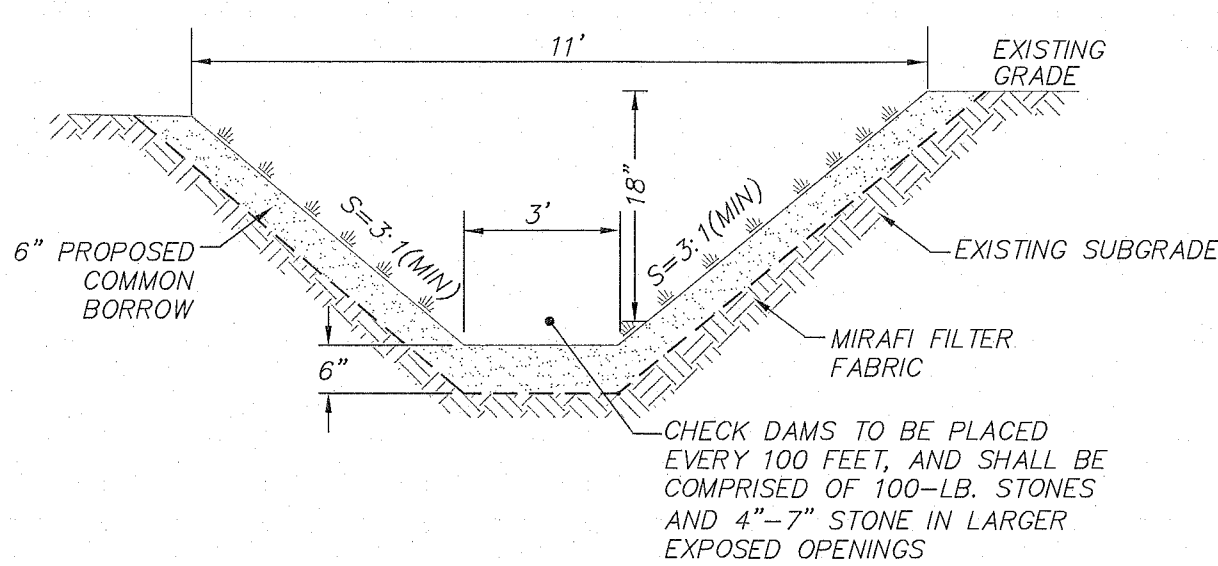
Channel Performance Design Values:	Test Method	Value
Unvegetated Shear Stress	ASTM D 8460	2.25 lb/ft² 107.73 Pa
Unvegetated Velocity	ASTM D 8460	8.0 ft/s 2.44 m/s
Vegetated Shear Stress	NA	N/A lb/ft² N/A Pa
Vegetated Velocity	NA	N/A ft/s N/A m/s
Manning's N (Value Represents a Range)		0.029

*Large-Scale Results obtained by 3rd Party GAI Accredited Independent Laboratory

EROSION CONTROL BLANKET OR APPROVED EQUAL
(NOT TO SCALE)



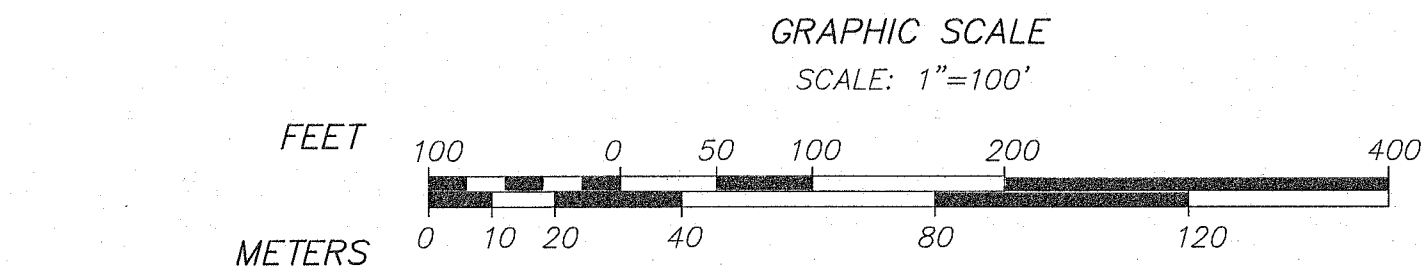
TYPICAL STONE CHECK DAM
(NOT TO SCALE)



GRASS LINED DRAINAGE SWALE
(NOT TO SCALE)

REVISIONS

	DATE	DESCRIPTION	BY	CHK'D
1	8.29.18	100-FT BUFFER TO PANELS	JG	CAR



313 PALMER ROAD

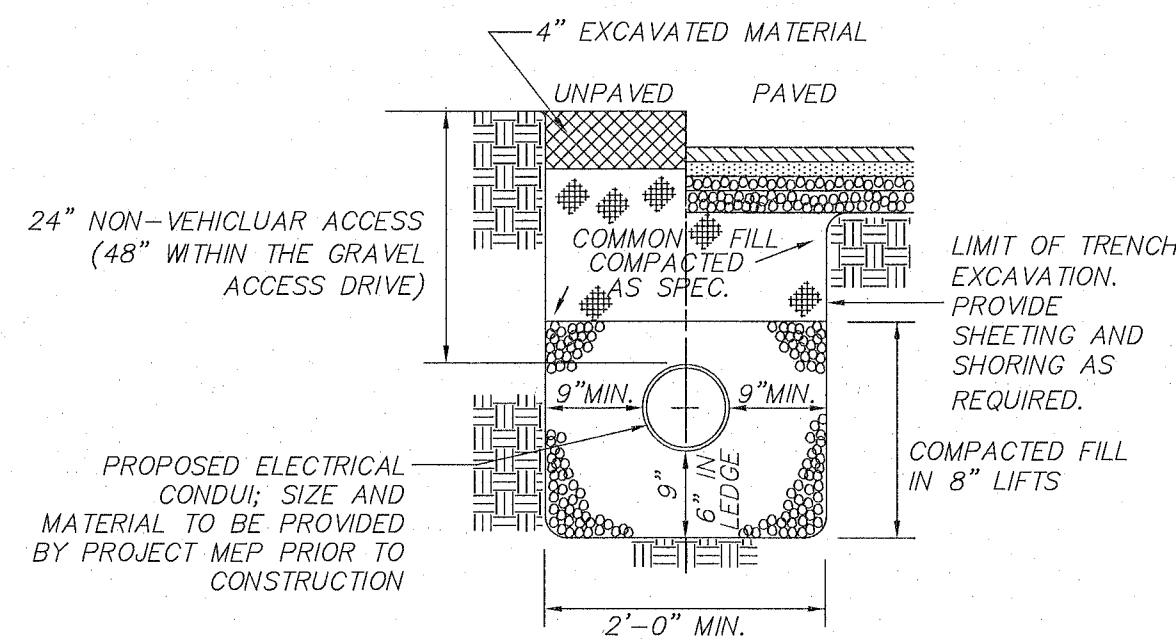
EROSION AND SEDIMENT CONTROL NOTES
LOCATED IN
WARE, MASSACHUSETTS
(HAMPSHIRE COUNTY)

PREPARED FOR
DYNAMIC ENERGY SOLUTIONS, LLC
SCALE: 1" = 100' DATE: JULY 2, 2018

**MERIDIAN
ASSOCIATES**

500 CUMMINGS CENTER, SUITE 5950 69 MILK STREET, SUITE 302
BEVERLY, MASSACHUSETTS 01915 WESTBOROUGH, MASSACHUSETTS 01581
TELEPHONE: (978) 299-0417 TELEPHONE: (508) 871-7030
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SHEET No. 11 OF 12 PROJECT No. 6044



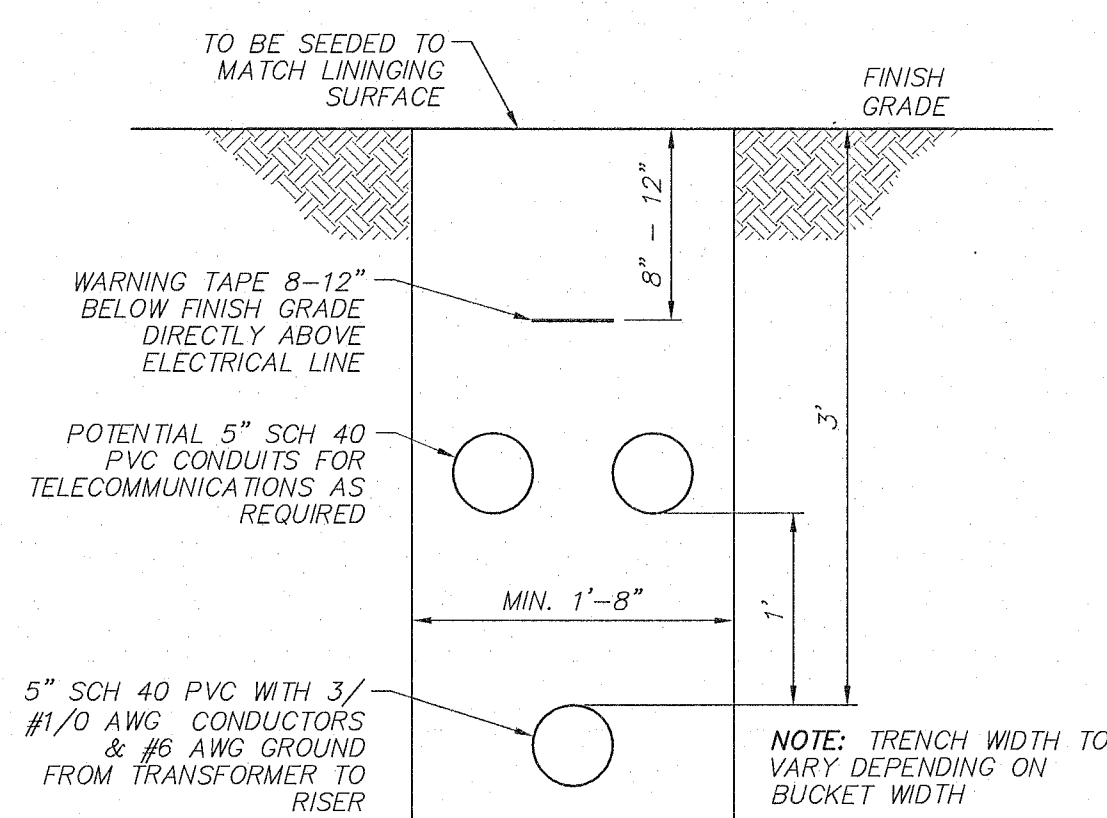
FILL SPECIFICATION

FINE AGGREGATE SHALL CONSIST OF HARD, DURABLE SAND, FINE OF CLAY, ORGANIC MATTER, SURFACE COATINGS, AND OTHER DELETERIOUS MATERIALS. SOIL FINER THAN THE No. 200 SIEVE (THE FINES) SHALL BE NONPLASTIC. FINE AGGREGATE FILL SHALL CONFORM TO THE REQUIREMENTS OF THE 1988 MASS. HIGHWAY DEPT. STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, SECTION M4.02.02A (2010 SUPPLEMENTAL SPECIFICATIONS). FINE AGGREGATE SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:

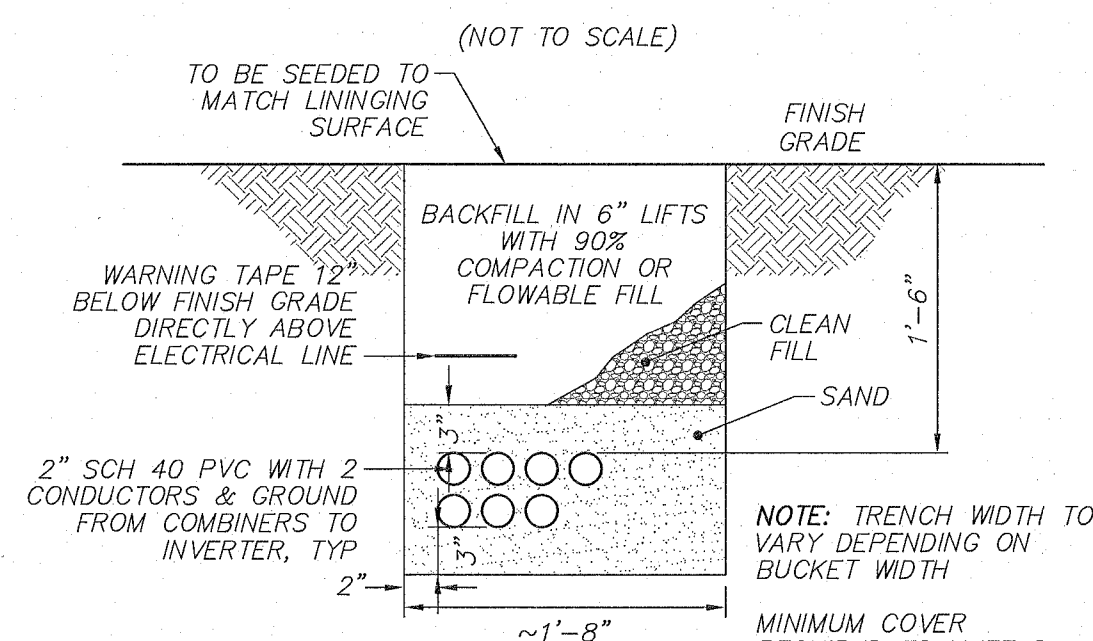
SIEVE SIZE	PERCENT PASSING BY WEIGHT
3/8 INCH	100
No. 4	95 - 100
No. 16	45 - 80
No. 50	10 - 30
No. 100	2 - 10
No. 200 (FINES)	0 - 3

FINE AGGREGATE FILL SHALL BE COMPACTED IN MAXIMUM 9-INCH-THICK LOOSE LIFTS TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY DETERMINED IN ACCORDANCE WITH ASTM D1557 (MODIFIED AASHTO COMPACTION)

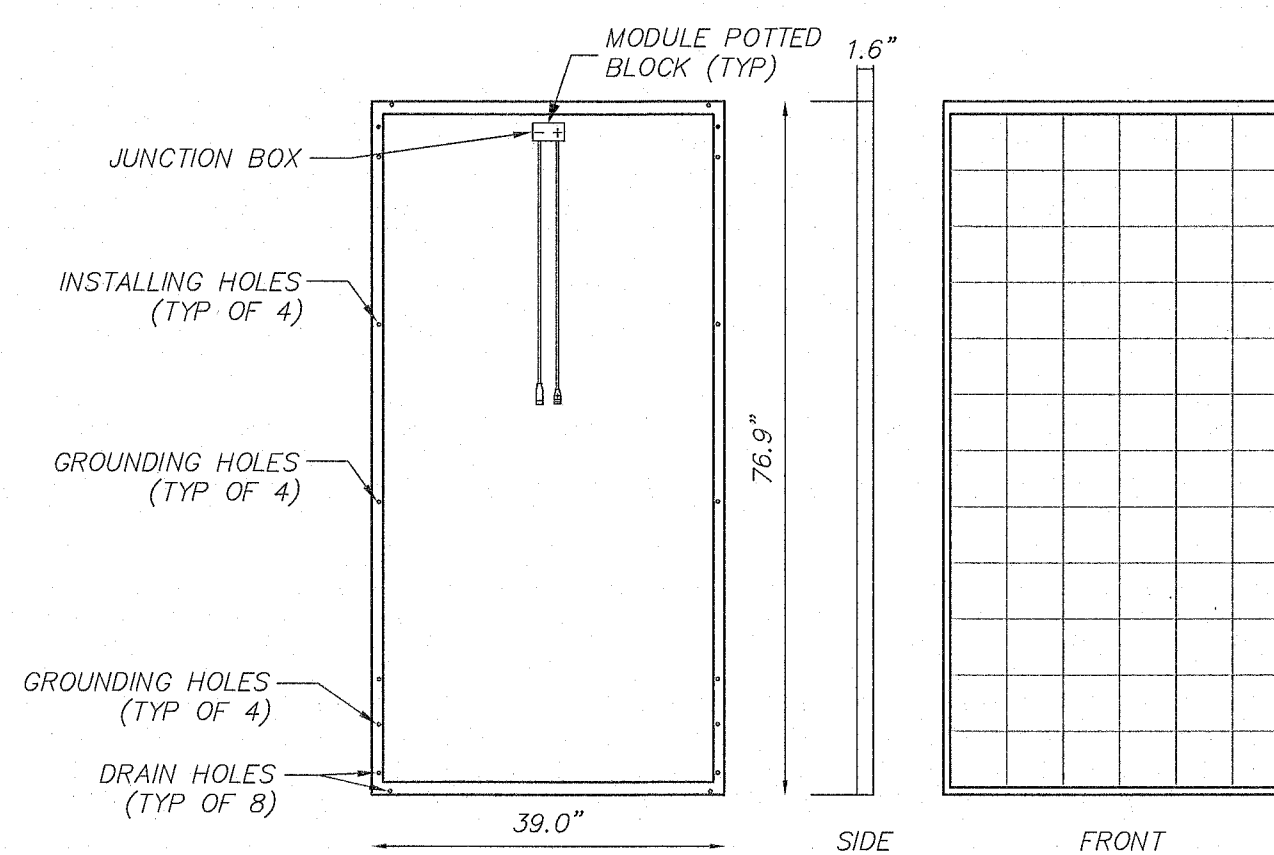
TYPICAL CONDUIT TRENCH DETAIL (NOT TO SCALE)



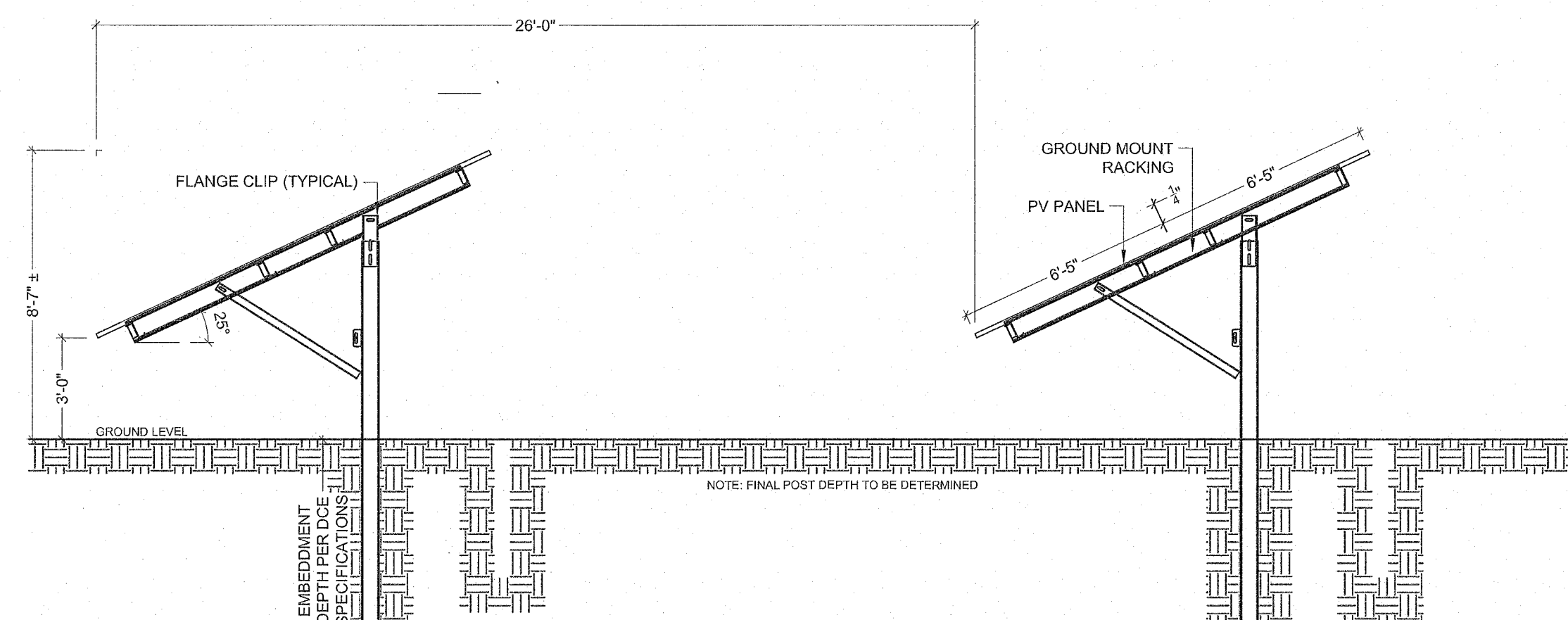
TYPICAL AC CONDUIT TRENCH DETAIL (NOT TO SCALE)



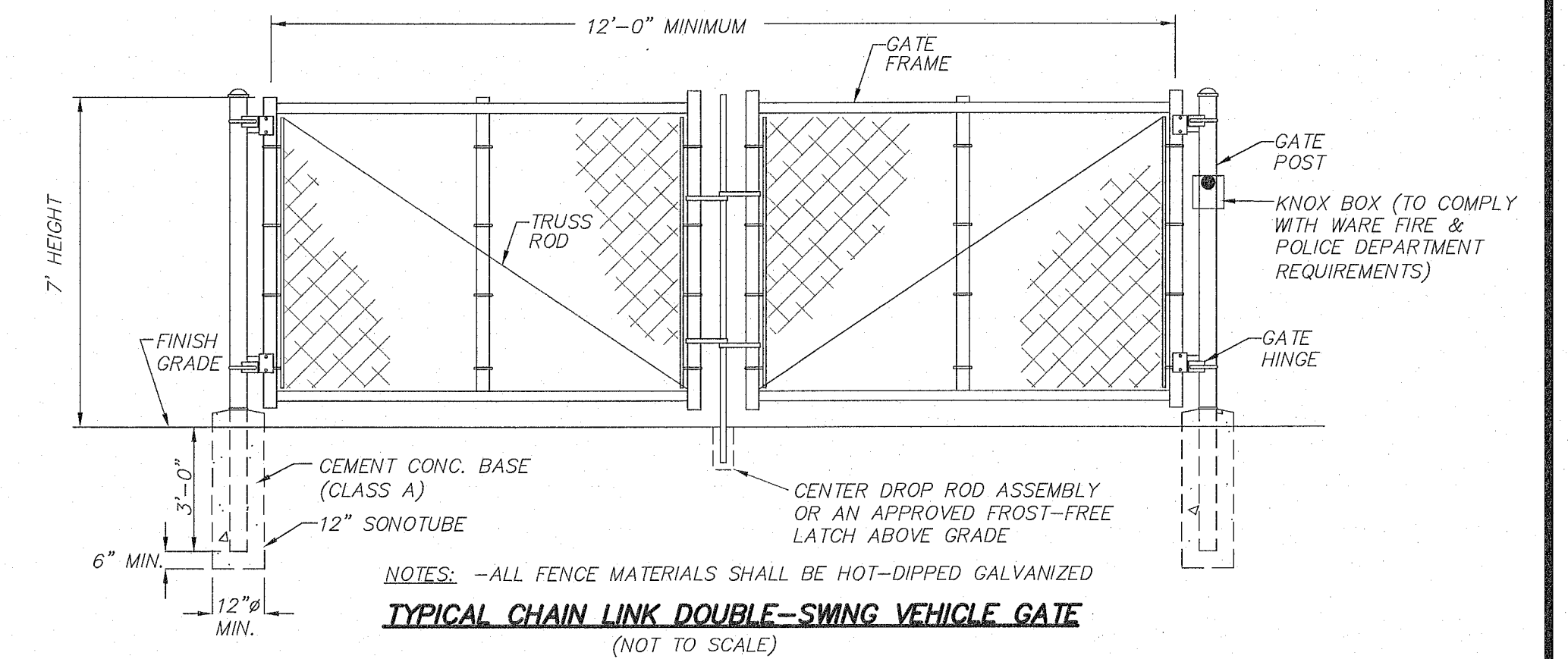
TYPICAL DC CONDUIT TRENCH DETAIL (NOT TO SCALE)



TYPICAL PV MODULE OR APPROVED EQUAL (NOT TO SCALE)

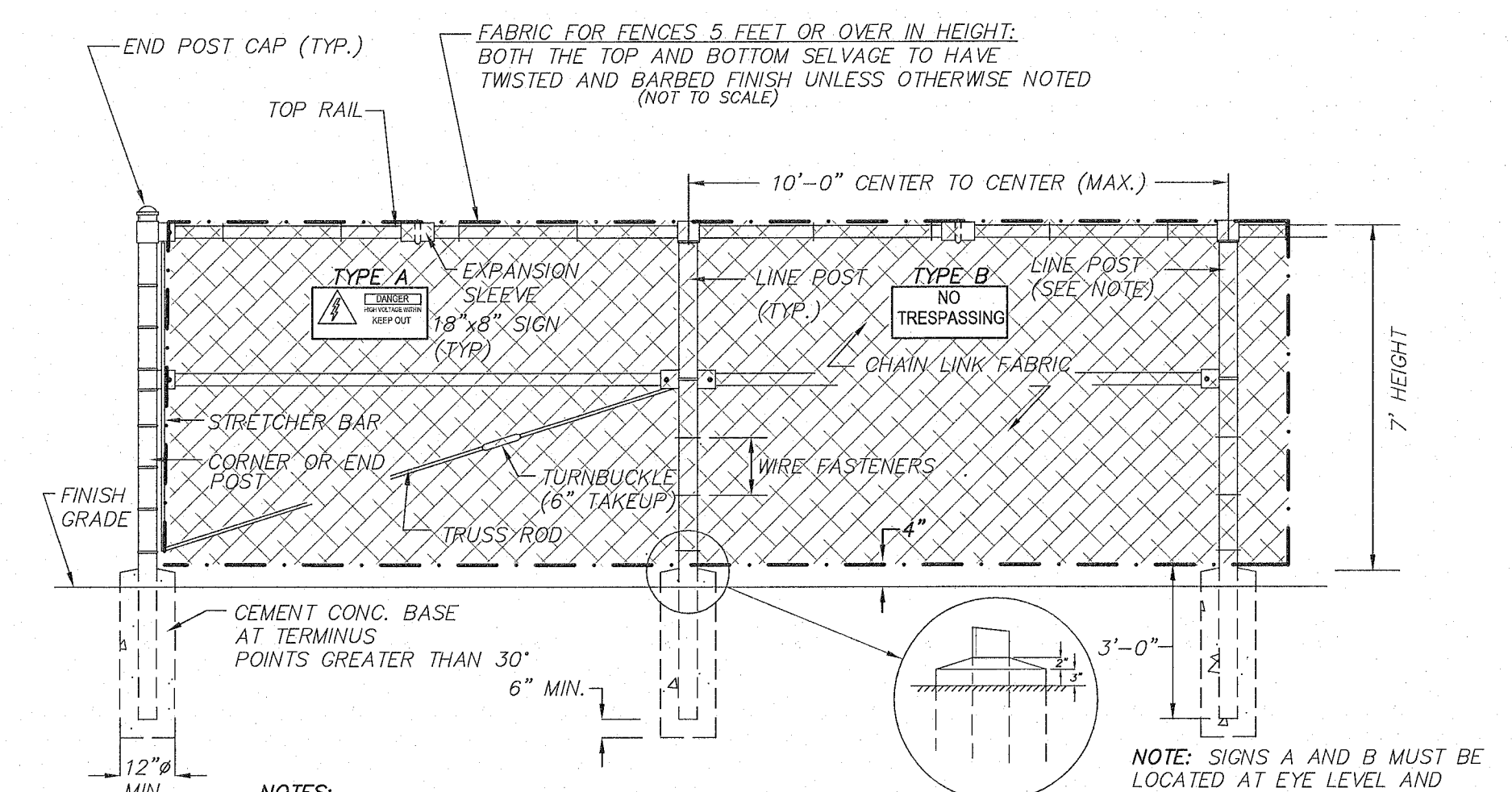


TYPICAL RACK SECTION OR APPROVED EQUAL (NOT TO SCALE)



NOTES: -ALL FENCE MATERIALS SHALL BE HOT-DIPPED GALVANIZED

TYPICAL CHAIN LINK DOUBLE-SWUNG VEHICLE GATE (NOT TO SCALE)

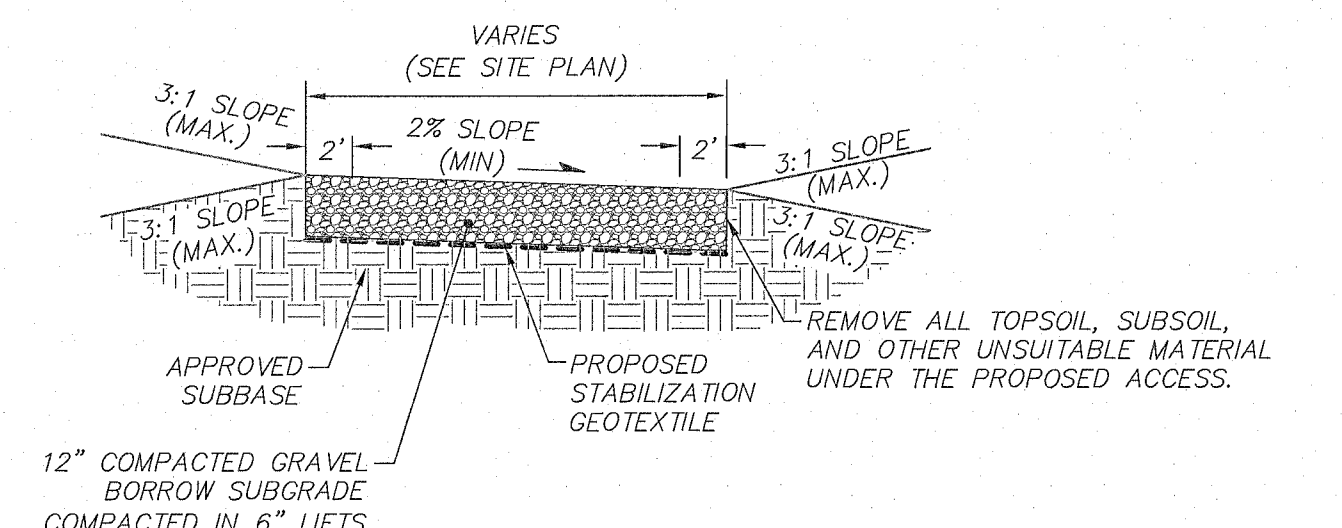


NOTES:
1. ALL FENCE MATERIALS SHALL BE HOT-DIPPED GALVANIZED
2. PERIMETER FENCING SHALL BE RAISED 4\"/>

NOTE: SIGNS A AND B MUST BE LOCATED AT EYE LEVEL AND LOCATED ON ALL GATES. DISTANCE BETWEEN SIGNS MUST NOT EXCEED 50'.

AFFIX APPROPRIATE COMPANY OWNER NAME AND CONTACT INFO DECAL TO BOTH SIGNS A AND B.

TYPICAL CHAIN LINK FENCE W/ TOPRAIL DETAIL OR APPROVED EQUAL (NOT TO SCALE)



TYPICAL GRAVEL ACCESS DRIVE CROSS SECTION (NOT TO SCALE)

FOR PERMITTING ONLY
NOT FOR CONSTRUCTION

BK. #6 PG. #17
BK. #6 PG. #29
DWG. No. 6044_SITE

NO.	DATE	DESCRIPTION	BY	CHK'D
1	8.29.18	100-FT BUFFER TO PANELS	JG	CAR

REVISIONS

313 PALMER ROAD

EROSION AND SEDIMENT CONTROL NOTES
LOCATED IN
WARE, MASSACHUSETTS
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PREPARED FOR
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SCALE: 1" = N.T.S. DATE: JULY 2, 2018

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SHEET No. 12 OF 12 PROJECT No. 6044

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