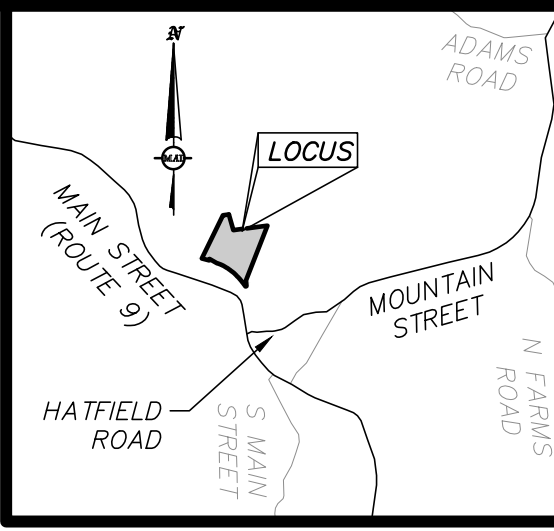


LEGEND:

- TWO FOOT CONTOUR
- TEN FOOT CONTOUR
- STONEWALL
- BORDERING VEGETATED WETLANDS
- COMPILED BORDERING VEGETATED WETLANDS
- TOP OF BANK
- COMPILED TOP OF BANK
- TREELINE
- LIMIT OF RIVERFRONT BUFFER
- WETLAND BUFFER
- NOW OR FORMERLY



LOCUS MAP:
(1"=5000')

UNOFFICIAL SOILS INFORMATION

DATE: AUGUST 14, 2018
CONDUCTED BY: ANDREW RODRIGUEZ, SE (13890)

TEST PIT TP-1

ELEV.=592.9±
ASSUMED E.S.H.G.W. ELEV.=588.7

- 0"-6" A HORIZON: SANDY LOAM
- 6"-33" B HORIZON: GRAVEL SANDY LOAM
- 33"-82" LAYER C: GRAVELLY SANDY LOAM COBBLES AND BOULDERS

REDOX NOT OBSERVED
WEEPING OBSERVED @ 51"

TEST PIT TP-2

ELEV.=576.6±
ASSUMED E.S.H.G.W. ELEV.=571.0

- 0"-4" A HORIZON: SANDY LOAM
- 4"-68" LAYER C: GRAVELLY SANDY LOAM COBBLES AND BOULDERS

REDOX NOT OBSERVED
REFUSAL @ 68"

TEST PIT TP-3

ELEV.=547.3±
ASSUMED E.S.H.G.W. ELEV.=540.4

- 0"-5" A HORIZON: SANDY LOAM
- 5"-20" B HORIZON: SANDY LOAM
- 20"-83" LAYER C: GRAVELLY SANDY LOAM COBBLES AND BOULDERS

REDOX NOT OBSERVED
REFUSAL @ 83"

TEST PIT TP-4

ELEV.=558.4±
ASSUMED E.S.H.G.W. ELEV.=554.4

- 0"-6" A HORIZON: SANDY LOAM
- 6"-21" B HORIZON: GRAVELLY SANDY LOAM
- 21"-58" LAYER C: GRAVELLY SANDY LOAM COBBLES AND BOULDERS

REDOX NOT OBSERVED
WEEPING OBSERVED @ 48"

TEST PIT TP-5

ELEV.=603.4±
ASSUMED E.S.H.G.W. ELEV.=600.3

- 0"-6" A HORIZON: SANDY LOAM
- 6"-30" B HORIZON: SANDY LOAM
- 30"-51" LAYER C: GREY SOIL, GRAVELLY SANDY LOAM COBBLES AND BOULDERS

REDOX NOT OBSERVED
WEEPING OBSERVED @ 38"

TEST PIT TP-5A

ELEV.=596.9±
ASSUMED E.S.H.G.W. ELEV.=595.4

- 0"-6" A HORIZON: SANDY LOAM
- 6"-18" LAYER C: GRAVELLY SANDY LOAM COBBLES AND BOULDERS

REDOX NOT OBSERVED
WEEPING OBSERVED @ 18"

NOTES:

- THE TOPOGRAPHY, SITE DETAIL & SURFACE IMPROVEMENTS DEPICTED HEREON WERE OBTAINED FROM AN AERIAL LIDAR SURVEY CONDUCTED BY MERIDIAN ASSOCIATES, INC. (MAI) ON MARCH 28, 2018 AND SUPPLEMENTED WITH AN ON-THE-GROUND INSTRUMENT SURVEY CONDUCTED BY MERIDIAN ASSOCIATES, INC. ON MAY 8-10, 2018.
- THE SUBJECT PROPERTY IS LOCATED IN THE RURAL (RU) ZONING DISTRICT.
- THE SUBJECT PROPERTY IS DEPICTED AS MAP C LOTS 75 & 76 (95 MAIN STREET) ON TOWN OF WILLIAMSBURG ASSESSOR'S MAPS.
- 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 OR 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.
- THE ELEVATIONS DEPICTED HEREON WERE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- 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.
- 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 SUBJECT PREMISES IS LOCATED IN FLOOD ZONE C, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FEMA FLOOD INSURANCE RATE MAP COMMUNITY--PANEL NUMBER 2501740002B DATED JUNE 1, 1981.
- THE WETLAND LIMITS DEPICTED WERE DEMARCATED BY LEC ENVIRONMENTAL CONSULTANTS, INC. ON FEBRUARY 13, FEBRUARY 28, AND APRIL 9, 2018.

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

GRAPHIC SCALE
SCALE: 1"= 100'



RECORD OWNERS:

- LAWRENCE E. & LINDA A. WEST
95 MAIN STREET
WILLIAMSBURG, MASSACHUSETTS 01096
- DEED BOOK 7762, PAGE 195
- DEED BOOK 12308, PAGE 108

REFERENCES:

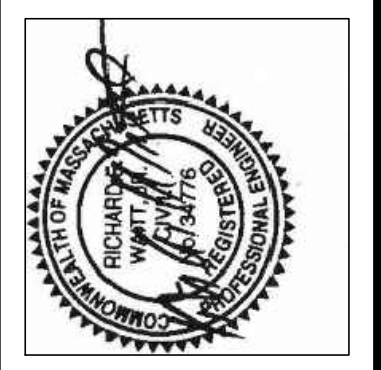
- PLAN BOOK 34, PLAN 38
- PLAN BOOK 71, PLAN 37
- PLAN BOOK 79, PLAN 10
- PLAN BOOK 164 PLAN 34
- PLAN BOOK 167 PLAN 79
- PLAN BOOK 213, PLAN 53
- PLAN BOOK 218 PLAN 102
- PLAN BOOK 205 PLAN 6
- PLAN BOOK 205 PLAN 7
- PLAN BOOK 236, PLAN 93
- 1928 STATE HIGHWAY LAYOUT #2537

DOCUMENTS ON RECORD AT THE HAMPSHIRE DISTRICT REGISTRY OF DEEDS.

BK. #672, PG. #69
DWG. NO. 6091_REC(WEST)-1.DWG

FOR PERMITTING ONLY
NOT FOR CONSTRUCTION

REVISIONS				
DATE	DESCRIPTION	BY	CR	CB
01/25/19	PER PLANNING BOARD REVIEW		CR	CB
01/17/19	PER PLANNING BOARD REVIEW		CR	CB
01/04/19	PER PLANNING BOARD REVIEW		CR	CB
12/6/18	PER PLANNING BOARD REVIEW		CR	CB



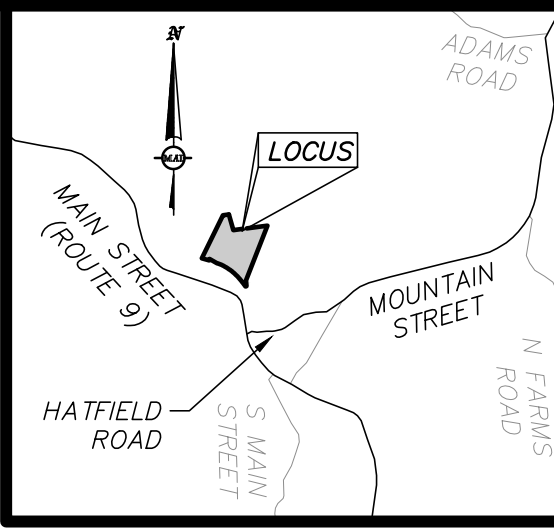
95 MAIN STREET
RECORD CONDITIONS PLAN OF LAND
LOCATED IN
WILLIAMSBURG, MASSACHUSETTS
(HAMPSHIRE COUNTY)
PREPARED FOR
ZPT ENERGY SOLUTIONS II, LLC

MERIDIAN ASSOCIATES
60 MILE STREET, SUITE 202
BEVERLY, MASSACHUSETTS 01915
TELEPHONE: (978) 299-0447
WWW.MERIDIANASSOC.COM

DATE: JANUARY 1, 2019
SCALE: 1"= 100'
SHEET No. 2 OF 13
PROJECT No. 6091



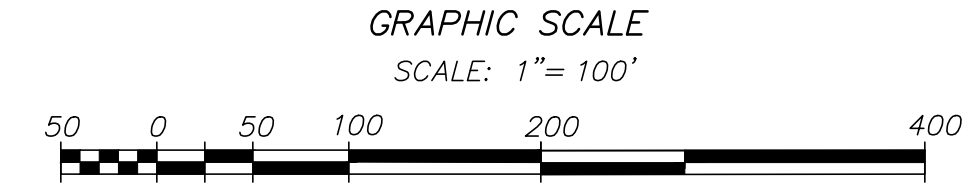
- LEGEND:**
- 800 TWO FOOT CONTOUR
 - TEN FOOT CONTOUR
 - STONEWALL
 - BORDERING VEGETATED WETLANDS
 - COMPILED BORDERING VEGETATED WETLANDS
 - TOP OF BANK
 - COMPILED TOP OF BANK
 - TREELINE
 - LIMIT OF RIVERFRONT BUFFER
 - 100' WETLAND BUFFER
 - 50' NO BUILD
 - 25' NO DISTURB
 - N/F NOW OR FORMERLY
 - LIMIT OF 200' NO LOGGING ZONE



- PROPOSED LEGEND:**
- PROPOSED TREELINE
 - PROPOSED CONTOUR
 - PROPOSED CHAINLINK FENCE
 - PROPOSED ELECTRIC CONDUIT
 - PE PROPOSED DRAIN LINE
 - PD PROPOSED WALL
 - PFE PROPOSED FLARED END
 - PROPOSED STANDPIPE WITH GRATE
 - PROPOSED CONCRETE
 - PROPOSED RIPRAP
 - PROPOSED GRAVEL ACCESS DRIVE
 - PROPOSED GRASSSED ACCESS DRIVE
 - PROPOSED 2:1 SLOPE
 - MIN PROP. TYP MINIMUM PROPOSED TYPICAL

- NOTES:**
- THE TOPOGRAPHY, SITE DETAIL & SURFACE IMPROVEMENTS DEPICTED HEREON WERE OBTAINED FROM AN AERIAL LIDAR SURVEY CONDUCTED BY MERIDIAN ASSOCIATES, INC. (MAI) ON MARCH 28, 2018 AND SUPPLEMENTED WITH AN ON-THE-GROUND INSTRUMENT SURVEY CONDUCTED BY MERIDIAN ASSOCIATES, INC. ON MAY 8-10, 2018.
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 - THE WETLAND LIMITS DEPICTED WERE DEMARCATED BY LEC ENVIRONMENTAL CONSULTANTS, INC. ON FEBRUARY 13, FEBRUARY 28, AND APRIL 9, 2018.
 - REFER TO SHEETS 5 & 6 FOR GRADING DETAIL.

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

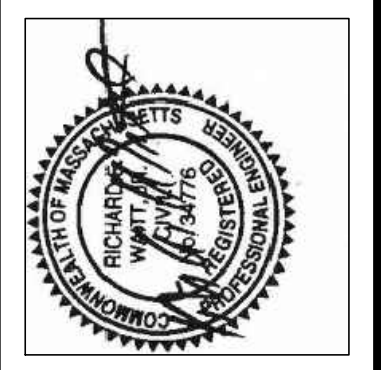


- RECORD OWNERS:**
- LAWRENCE E. & LINDA A. WEST
 - 95 MAIN STREET
 - WILLIAMSBURG, MASSACHUSETTS 01096
 - DEED BOOK 7762, PAGE 195
 - DEED BOOK 12308, PAGE 108
- REFERENCES:**
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 - PLAN BOOK 205 PLAN 6
 - PLAN BOOK 205 PLAN 7
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 - 1928 STATE HIGHWAY LAYOUT #2537
- DOCUMENTS ON RECORD AT THE HAMPSHIRE DISTRICT REGISTRY OF DEEDS.

BK. #672, PG. #69
DWG. NO. 6091_SITE(WEST)-1.DWG

FOR PERMITTING ONLY
NOT FOR CONSTRUCTION

REVISIONS	
DATE	DESCRIPTION
01/25/19	PER PLANNING BOARD REVIEW
01/17/19	PER PLANNING BOARD REVIEW
01/04/19	PER PLANNING BOARD REVIEW
12/6/18	PER PLANNING BOARD REVIEW



95 MAIN STREET
PERMIT SITE OVERVIEW
LOCATED IN
WILLIAMSBURG, MASSACHUSETTS
(HAMPSHIRE COUNTY)
PREPARED FOR
ZPT ENERGY SOLUTIONS II, LLC

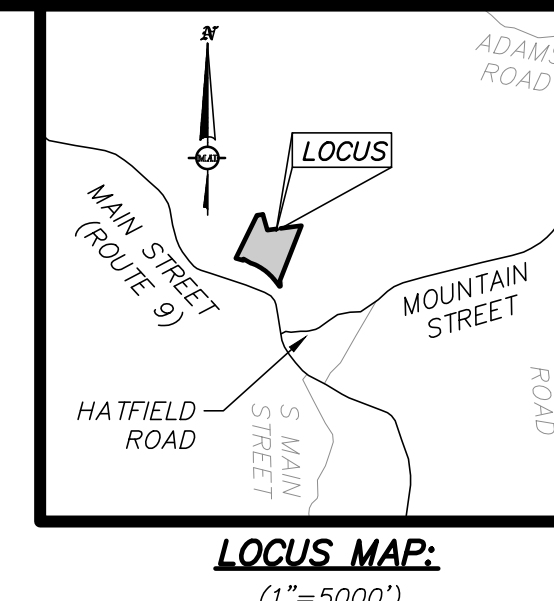
MERIDIAN ASSOCIATES
60 MILE STREET, SUITE 302
BEVERLY, MASSACHUSETTS 01915
TELEPHONE: (978) 299-0447
WWW.MERIDIANASSOC.COM

DATE:	JANUARY 1, 2019
SCALE:	1"= 100'
SHEET No.	3 OF 13
PROJECT No.	6091



LEGEND:

- 800 TWO FOOT CONTOUR
- TEN FOOT CONTOUR
- STONEWALL
- BORDERING VEGETATED WETLANDS
- COMPILED BORDERING VEGETATED WETLANDS
- TOP OF BANK
- COMPILED TOP OF BANK
- TREELINE
- LIMIT OF RIVERFRONT BUFFER
- 100' WETLAND BUFFER
- 50' NO BUILD
- 25' NO DISTURB
- N/F NOW OR FORMERLY
- LIMIT OF 200' NO LOGGING ZONE

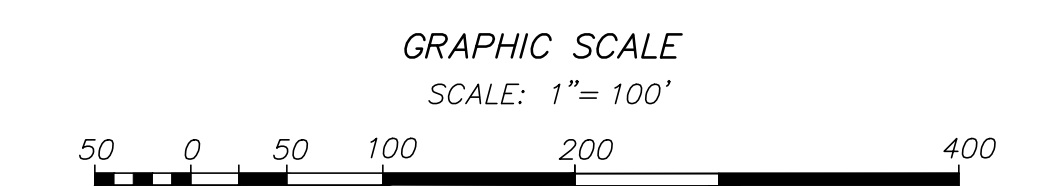


PROPOSED LEGEND:

- PROPOSED TREELINE
- PROPOSED CONTOUR
- PROPOSED CHAINLINK FENCE
- PE PROPOSED ELECTRIC CONDUIT
- PD PROPOSED DRAIN LINE
- PROPOSED WALL
- PROPOSED FLARED END
- PROPOSED CONCRETE
- PROPOSED RIPRAP
- PROPOSED GRAVEL ACCESS DRIVE
- PROPOSED GRASSED ACCESS DRIVE
- PROPOSED 2:1 SLOPE
- MIN PROP. TYP
- MINIMUM PROPOSED TYPICAL

- NOTES:**
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 - WILLIAMSBURG, MASSACHUSETTS 01096
 - DEED BOOK 7762, PAGE 195
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- REFERENCES:**
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- DOCUMENTS ON RECORD AT THE HAMPSHIRE DISTRICT REGISTRY OF DEEDS.

BK. #672, PG. #69
DWG. NO. 6091_SITE(WEST)-1.DWG

FOR PERMITTING ONLY
NOT FOR CONSTRUCTION

REVISIONS

DATE	DESCRIPTION	BY
01/25/19	PER PLANNING BOARD REVIEW	CB
01/17/19	PER PLANNING BOARD REVIEW	CR
01/04/19	PER PLANNING BOARD REVIEW	CR
12/6/18	PER PLANNING BOARD REVIEW	CR

**95 MAIN STREET
PERMIT SITE LAYOUT
LOCATED IN
WILLIAMSBURG, MASSACHUSETTS
(HAMPSHIRE COUNTY)
PREPARED FOR
ZPT ENERGY SOLUTIONS II, LLC**

MERIDIAN ASSOCIATES

60 MILE STREET, SUITE 302
BEVERLY, MASSACHUSETTS 01915
TELEPHONE: (978) 299-0447
WWW.MERIDIANASSOC.COM

DESIGNED BY:

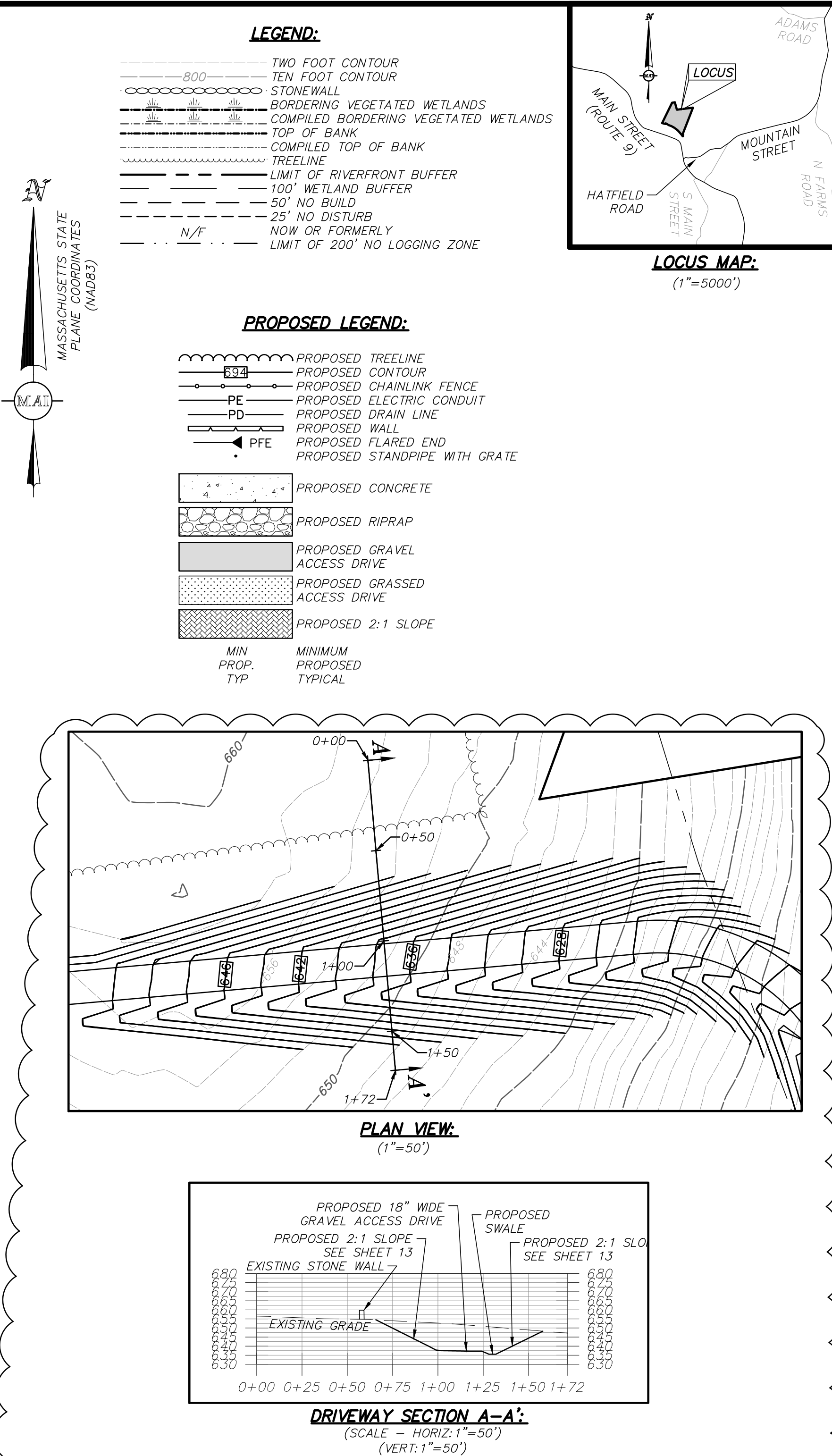
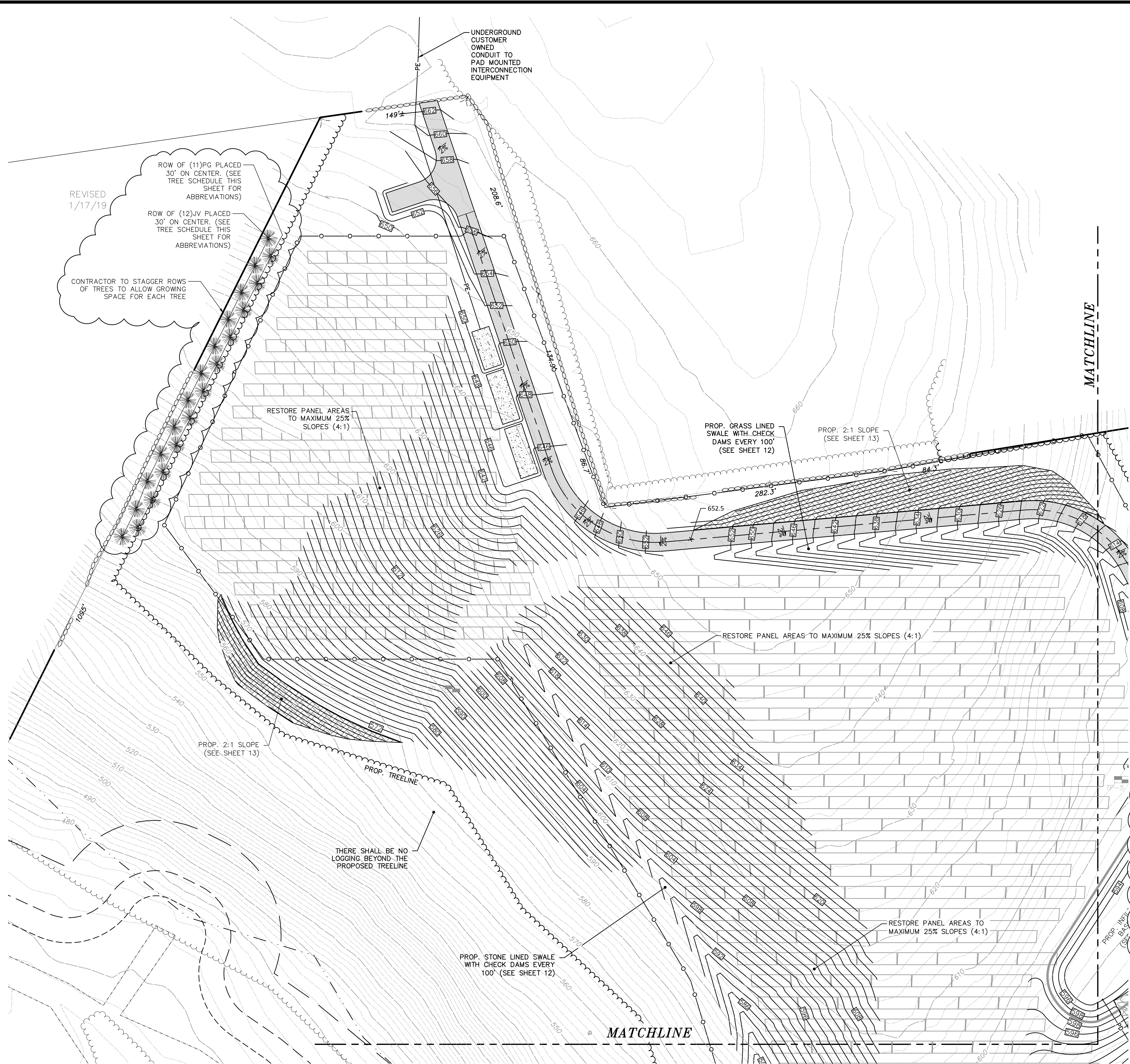
CHECKED BY:

DATE: JANUARY 1, 2019

SCALE: 1"= 100'

SHEET No. 4 OF 13

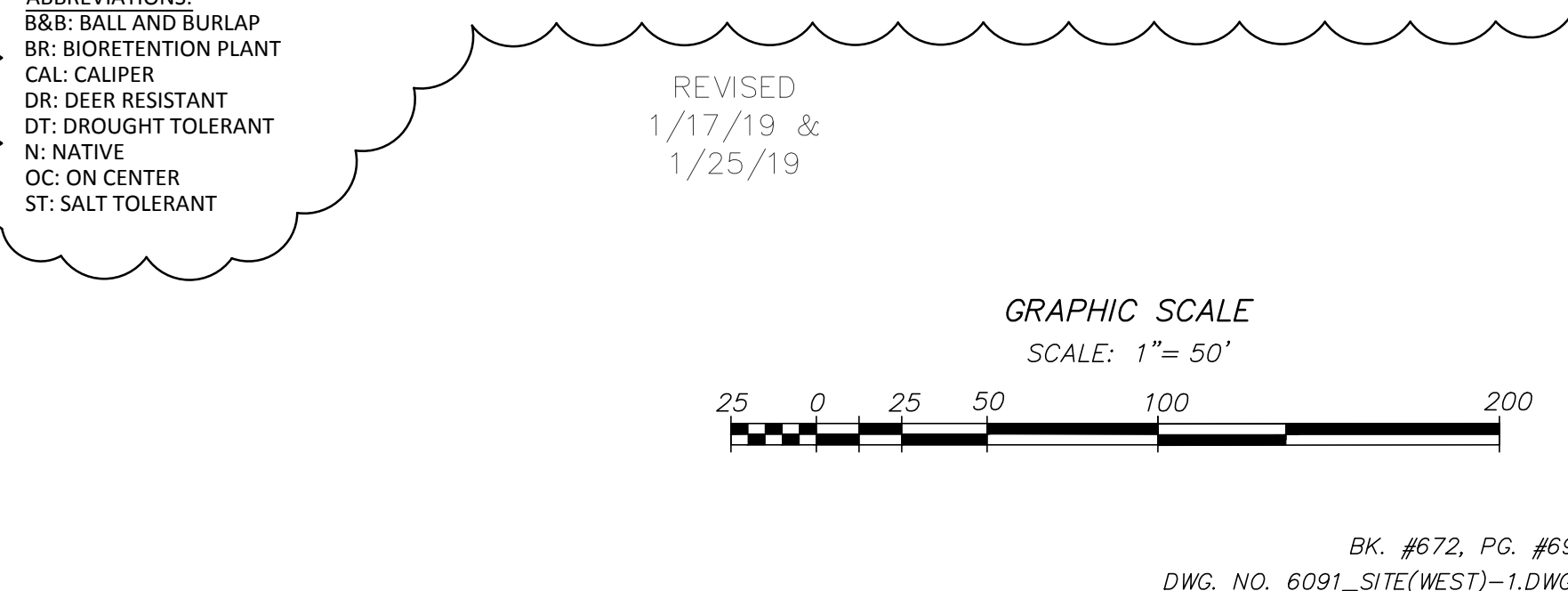
PROJECT No. 6091



TREE SCHEDULE

QTY	SYM	LATIN NAME	COMMON NAME	SIZE	NOTES
12	JV	Juniperus virginiana	Eastern Red Cedar	10'-12' Ht. B&B	BR DR DT N ST 12' OC Blueish/Black Fruit Wildlife Evergreen
11	PG	Picea glauca	White spruce	7'-8' Ht. B&B	DR N 15' OC Birds/Mammals Evergreen Winter Interest

ABBREVIATIONS:
B&B: BALL AND BURLAP
BR: BIORETENTION PLANT
CAL: CALIPER
DR: DEER RESISTANT
DT: DROUGHT TOLERANT
N: NATIVE
OC: ON CENTER
ST: SALT TOLERANT



SEE SHEET 3 OF 13 FOR
GENERAL NOTES AND LEGEND

FOR PERMITTING ONLY
NOT FOR CONSTRUCTION

REVISIONS

DATE	DESCRIPTION
01/25/19	PER PLANNING BOARD REVIEW
01/17/19	PER PLANNING BOARD REVIEW
01/04/19	PER PLANNING BOARD REVIEW
12/6/18	PER PLANNING BOARD REVIEW

**95 MAIN STREET
GRADING & UTILITY PLAN 1
LOCATED IN
WILLIAMSBURG, MASSACHUSETTS
(HAMPSHIRE COUNTY)**

ZPT ENERGY SOLUTIONS II, LLC

PREPARED FOR

MERIDIAN ASSOCIATES

500 CUMMINGS CENTER, SUITE 5950
BEVERLY, MASSACHUSETTS 01915
TELEPHONE: (978) 299-4447
WWW.MERIDIANASSOC.COM

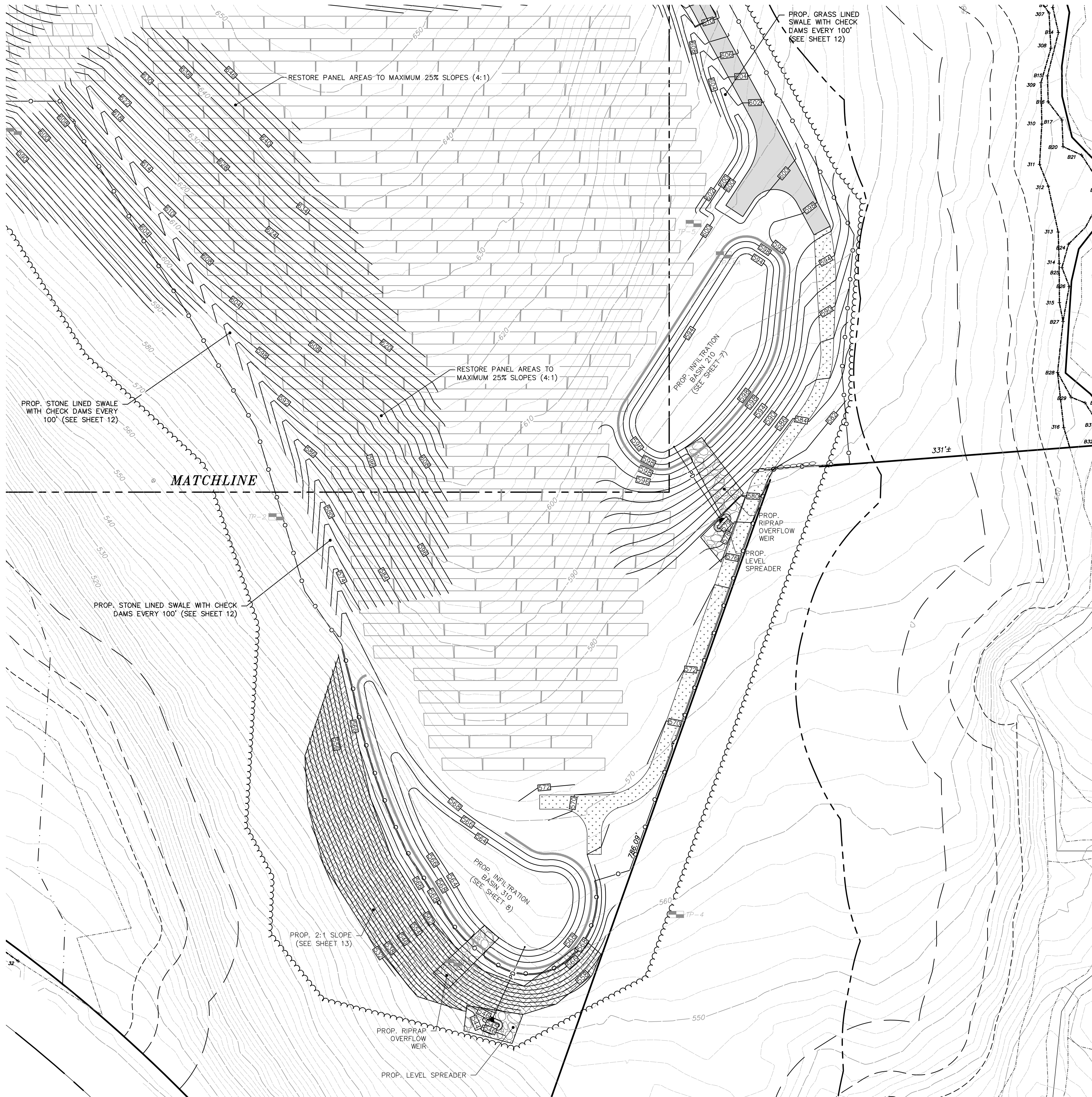
DESIGNED BY: _____
CHECKED BY: _____

DATE:
JANUARY 1, 2019

SCALE:
1"= 50'

SHEET No.
5 OF 13

PROJECT No.
6091



LEGEND:

- TWO FOOT CONTOUR
- TEN FOOT CONTOUR
- STONEWALL
- BORDERING VEGETATED WETLANDS
- COMPILED BORDERING VEGETATED WETLANDS
- TOP OF BANK
- COMPILED TOP OF BANK
- TREELINE
- LIMIT OF RIVERFRONT BUFFER
- 100' WETLAND BUFFER
- 50' NO BUILD
- 25' NO DISTURB
- NOW OR FORMERLY
- LIMIT OF 200' NO LOGGING ZONE

PROPOSED LEGEND:

- PROPOSED TREELINE
- PROPOSED CONTOUR
- PROPOSED CHAINLINK FENCE
- PE PROPOSED ELECTRIC CONDUIT
- PD PROPOSED DRAIN LINE
- PROPOSED WALL
- PROPOSED FLARED END
- PROPOSED CONCRETE
- PROPOSED RIPRAP
- PROPOSED GRAVEL ACCESS DRIVE
- PROPOSED GRASSSED ACCESS DRIVE
- PROPOSED 2:1 SLOPE
- MIN PROP. TYP
- MINIMUM PROPOSED TYPICAL

UNOFFICIAL SOILS INFORMATION
DATE: AUGUST 14, 2018
CONDUCTED BY: ANDREW RODRIGUEZ, SE (13890)

TEST PIT TP-1
ELEV.=592.9±
ASSUMED E.S.H.G.W. ELEV.=588.7
0"-6" A HORIZON: SANDY LOAM
6"-33" B HORIZON: GRAVEL SANDY LOAM
33"-82" LAYER C: GRAVELLY SANDY LOAM
COBBLES AND BOULDERS
REDOX NOT OBSERVED
WEEPING OBSERVED @ 51"

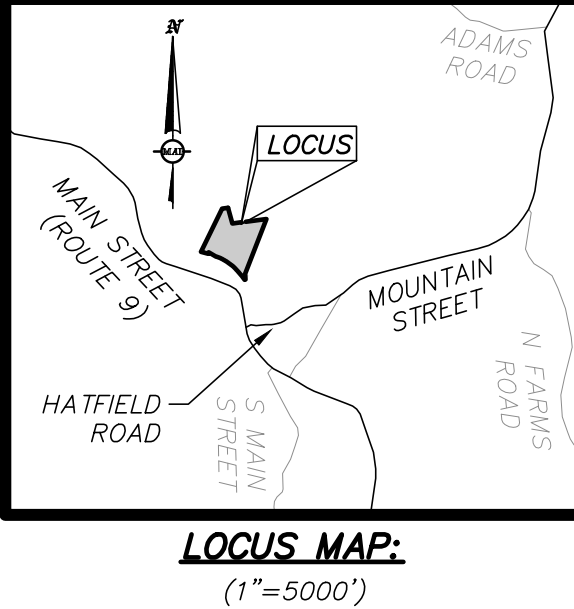
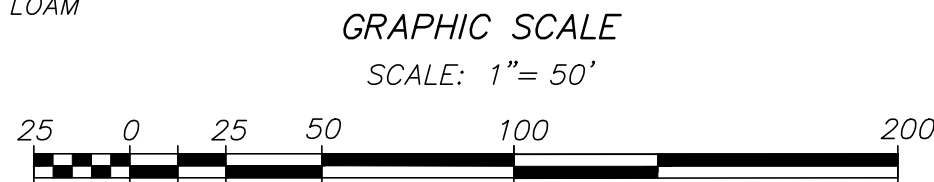
TEST PIT TP-2
ELEV.=576.6±
ASSUMED E.S.H.G.W. ELEV.=571.0
0"-4" A HORIZON: SANDY LOAM
4"-68" LAYER C: GRAVELLY SANDY LOAM
COBBLES AND BOULDERS
REDOX NOT OBSERVED
REFUSAL @ 68"

TEST PIT TP-3
ELEV.=547.3±
ASSUMED E.S.H.G.W. ELEV.=540.4
0"-5" A HORIZON: SANDY LOAM
5"-20" B HORIZON: SANDY LOAM
20"-83" LAYER C: GRAVELLY SANDY LOAM
COBBLES AND BOULDERS
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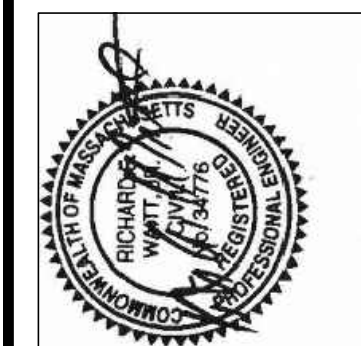
TEST PIT TP-4
ELEV.=558.4±
ASSUMED E.S.H.G.W. ELEV.=554.4
0"-6" A HORIZON: SANDY LOAM
6"-21" B HORIZON: GRAVELLY SANDY LOAM
21"-58" LAYER C: GRAVELLY SANDY LOAM
COBBLES AND BOULDERS
REDOX NOT OBSERVED
WEEPING OBSERVED @ 48"

TEST PIT TP-5
ELEV.=603.4±
ASSUMED E.S.H.G.W. ELEV.=600.3
0"-6" A HORIZON: SANDY LOAM
6"-30" B HORIZON: SANDY LOAM
30"-51" LAYER C: GREY SOIL, GRAVELLY SANDY LOAM
COBBLES AND BOULDERS
REDOX NOT OBSERVED
WEEPING OBSERVED @ 38"

TEST PIT TP-5A
ELEV.=596.9±
ASSUMED E.S.H.G.W. ELEV.=595.4
0"-6" A HORIZON: SANDY LOAM
6"-18+" LAYER C: GRAVELLY SANDY LOAM
COBBLES AND BOULDERS
REDOX NOT OBSERVED
WEEPING OBSERVED @ 18"



REVISIONS		DATE	DESCRIPTION
01/25/19	PER PLANNING BOARD REVIEW	CE	
01/17/19	PER PLANNING BOARD REVIEW	CR	
01/04/19	PER PLANNING BOARD REVIEW	CR	
12/6/18	PER PLANNING BOARD REVIEW	CR	



95 MAIN STREET
GRADING & UTILITY PLAN 2
LOCATED IN
WILLIAMSBURG, MASSACHUSETTS
(HAMPSHIRE COUNTY)
PREPARED FOR
ZPT ENERGY SOLUTIONS II, LLC

MERIDIAN ASSOCIATES
500 CUMMINGS CENTER, SUITE 5950
BEVERLY, MASSACHUSETTS 01915
TELEPHONE: (978) 299-4447
WWW.MERIDIANASSOC.COM

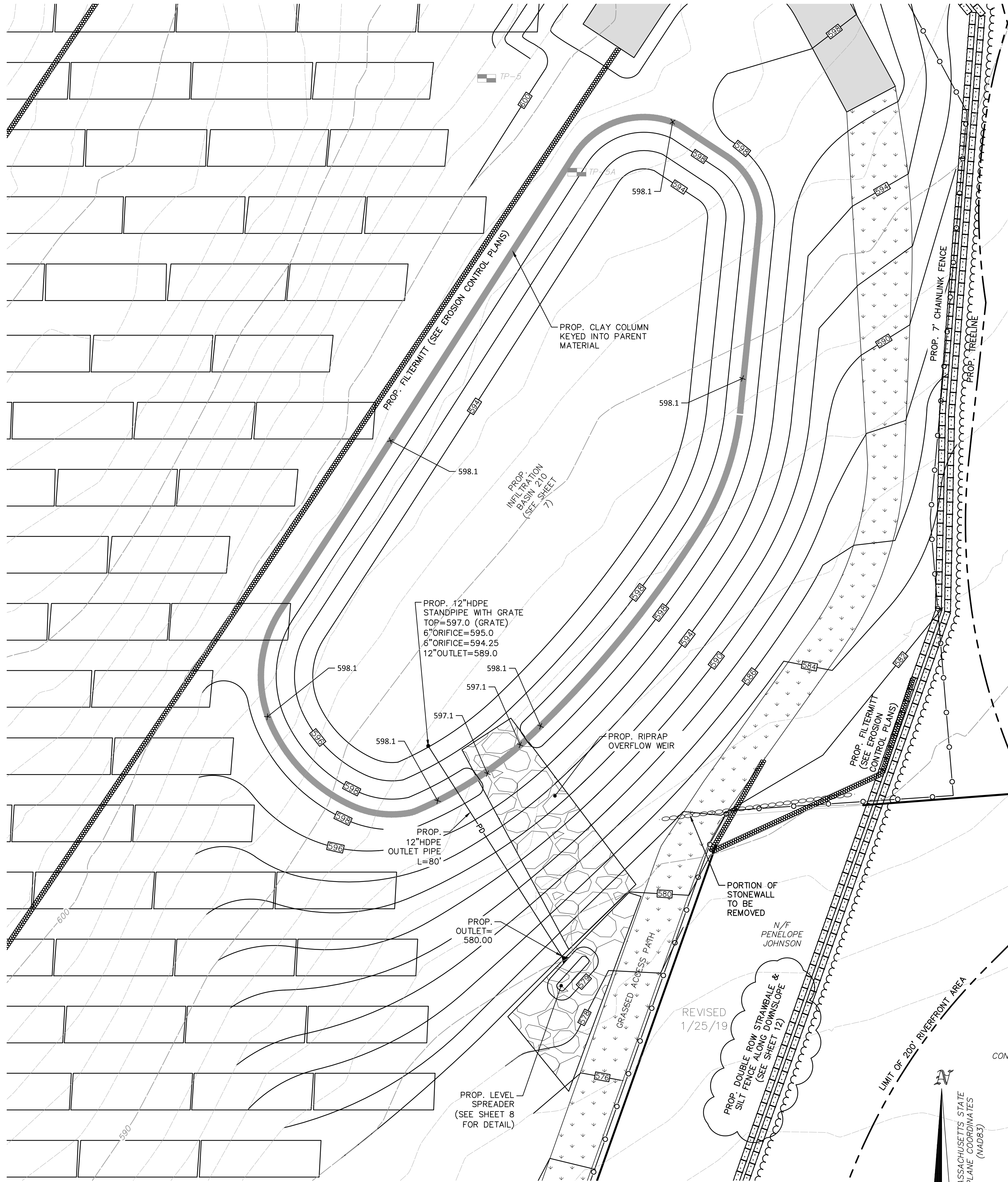
DESIGNED BY: _____
CHECKED BY: _____

DATE:
JANUARY 1, 2019
SCALE:
1"= 50'
SHEET No.
6 OF 13
PROJECT No.
6091

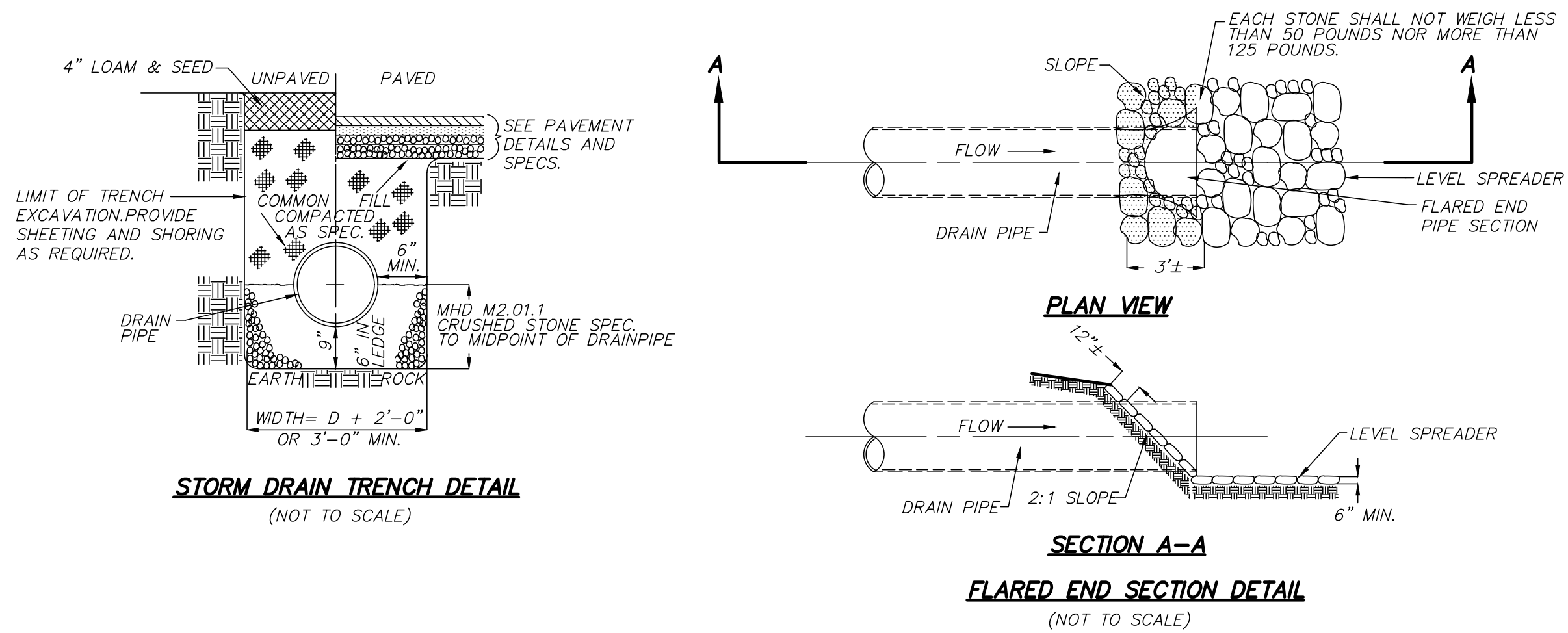
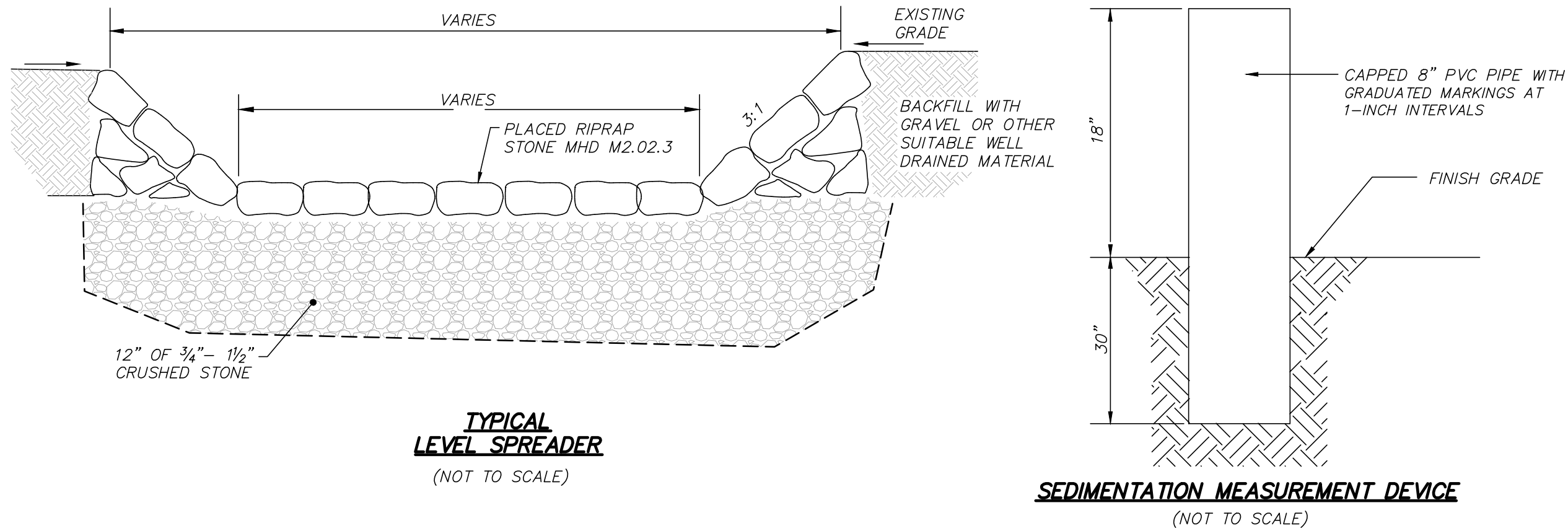
SEE SHEET 3 OF 13 FOR
GENERAL NOTES AND LEGEND

FOR PERMITTING ONLY
NOT FOR CONSTRUCTION

BK. #672, PG. #69
DWG. NO. 6091_SITE(WEST)-1.DWG.



PROPOSED INFILTRATION BASIN #210
GRADING DETAIL
(1"=20')

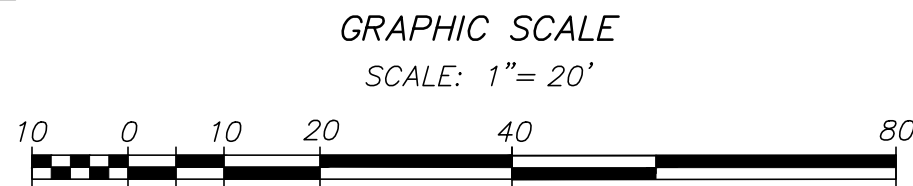


UNOFFICIAL SOILS INFORMATION
DATE: AUGUST 14, 2016
CONDUCTED BY: ANDREW RODRIGUEZ, SE (13890)

TEST PIT TP-5
ELEV.=603.4±
ASSUMED E.S.H.G.W. ELEV.=600.3
0"-6" A HORIZON: SANDY LOAM
6"-30" B HORIZON: SANDY LOAM
30"-51" LAYER C: GREY SOIL, GRAVELY SANDY LOAM COBBLES AND BOULDERS
REDOX NOT OBSERVED
WEAVING OBSERVED @ 38"

TEST PIT TP-5A
ELEV.=596.9±
ASSUMED E.S.H.G.W. ELEV.=595.4
0"-6" A HORIZON: SANDY LOAM
6"-18+" LAYER C: GRAVELY SANDY LOAM COBBLES AND BOULDERS
REDOX NOT OBSERVED
WEAVING OBSERVED @ 18"

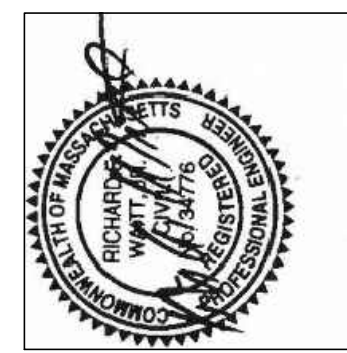
PROPOSED INFILTRATION BASIN #210 OUTLETS AND
OVERFLOW WEIR WITH LEVEL SPREADER DETAIL
(NOT TO SCALE)



SEE SHEET 3 OF 13 FOR
GENERAL NOTES AND LEGEND

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NOT FOR CONSTRUCTION

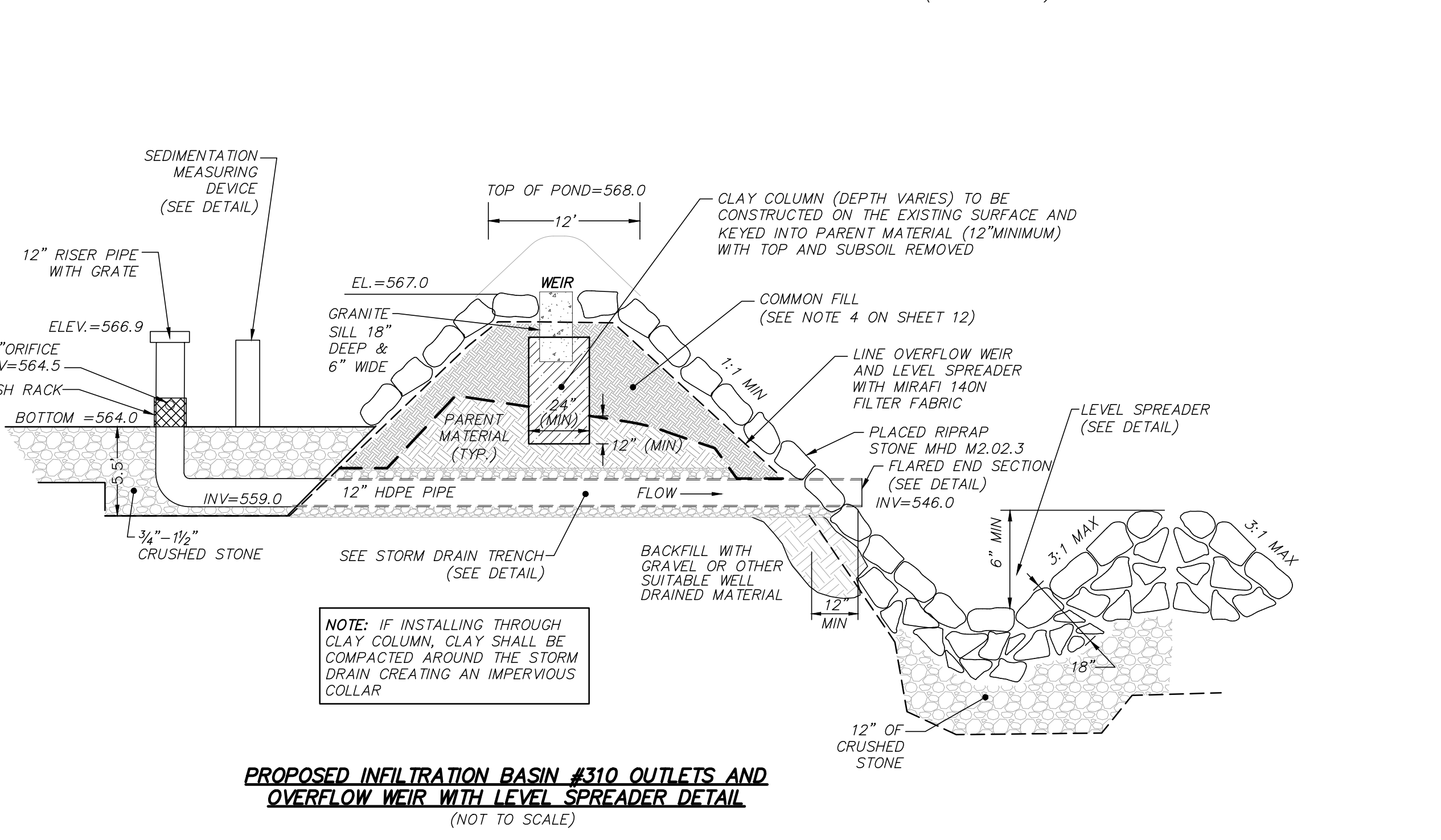
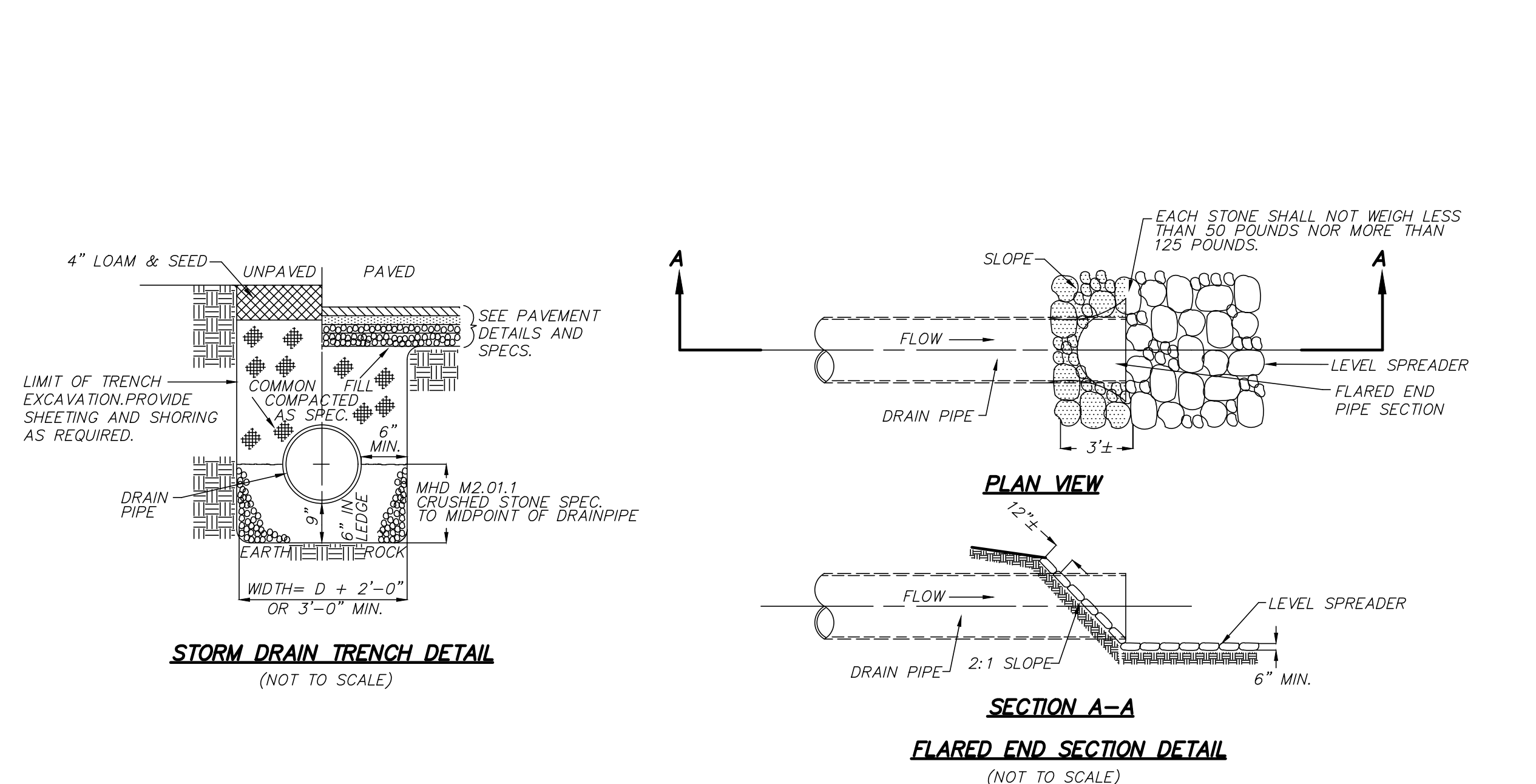
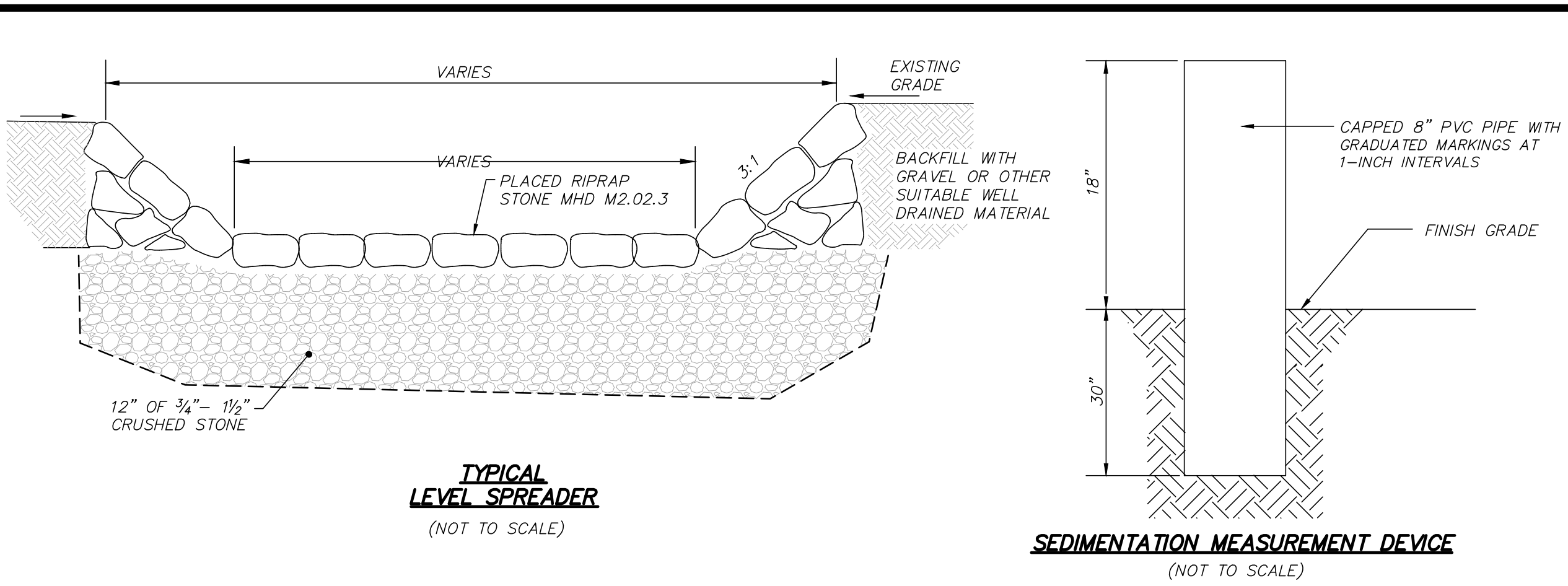
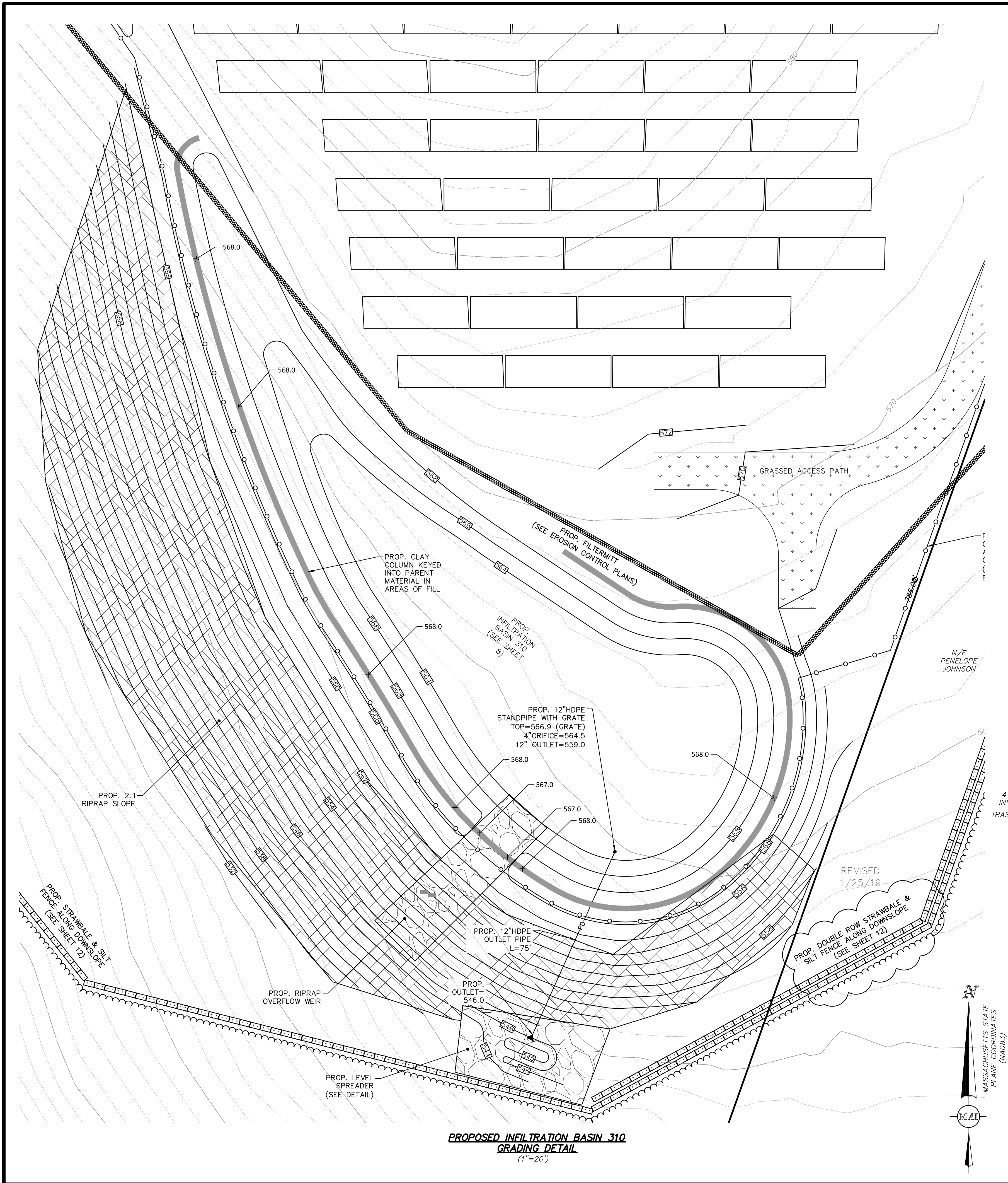
REVISIONS		DATE	DESCRIPTION
01/25/19	PER PLANNING BOARD REVIEW	CE	
01/17/19	PER PLANNING BOARD REVIEW	CR	
01/04/19	PER PLANNING BOARD REVIEW	CR	
12/6/18	PER PLANNING BOARD REVIEW	CR	



95 MAIN STREET
BASIN DETAIL 1
LOCATED IN
WILLIAMSBURG, MASSACHUSETTS
(HAMPSHIRE COUNTY)
PREPARED FOR
ZPT ENERGY SOLUTIONS II, LLC

MERIDIAN ASSOCIATES
500 CUMMINGS CENTER, SUITE 5950
BEVERLY, MASSACHUSETTS 01915
TELEPHONE: (978) 299-4447
WWW.MERIDIANASSOC.COM

DATE:
JANUARY 1, 2019
SCALE:
1"= 20'
SHEET No.
7 OF 13
PROJECT No.
6091



UNOFFICIAL SOILS INFORMATION
DATE: AUGUST 14, 2018
CONDUCTED BY: ANDREW RODRIGUEZ, SE (13890)

TEST PIT TP-3
ELEV.=547.3±
ASSUMED E.S.H.G.W. ELEV.=540.4

0'-5" A HORIZON: SANDY LOAM
5'-20" B HORIZON: SANDY LOAM
20'-83" LAYER C: GRAVELLY SANDY LOAM
COBBLES AND BOULDERS
REDOX NOT OBSERVED
REFUSAL @ 83"

GRAPHIC SCALE
SCALE: 1" = 20'

10 0 10 20 40 80

SEE SHEET 3 OF 13 FOR
GENERAL NOTES AND LEGEND

FOR PERMITTING ONLY
NOT FOR CONSTRUCTION

REVISIONS	
DATE	DESCRIPTION
01/25/19	PER PLANNING BOARD REVIEW
01/17/19	PER PLANNING BOARD REVIEW
01/04/19	PER PLANNING BOARD REVIEW
12/6/18	PER PLANNING BOARD REVIEW

**95 MAIN STREET
BASIN DETAIL 2
LOCATED IN
WILLIAMSBURG, MASSACHUSETTS
(HAMPSHIRE COUNTY)**

ZPT ENERGY SOLUTIONS II, LLC

PREPARED FOR

MERIDIAN ASSOCIATES
500 CUMMINGS CENTER, SUITE 5950
BEVERLY, MASSACHUSETTS 01915
TELEPHONE: (978) 299-4447
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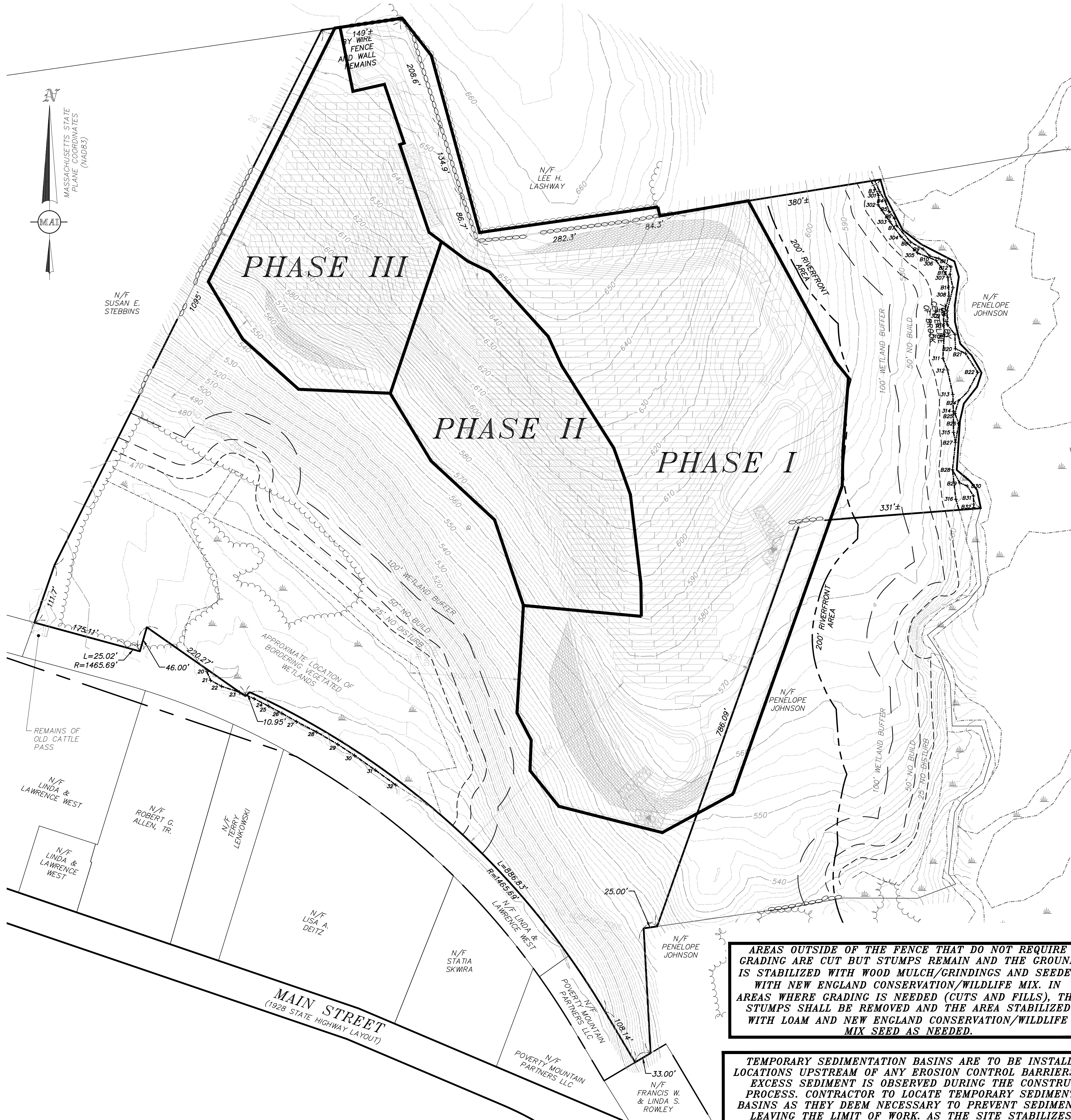
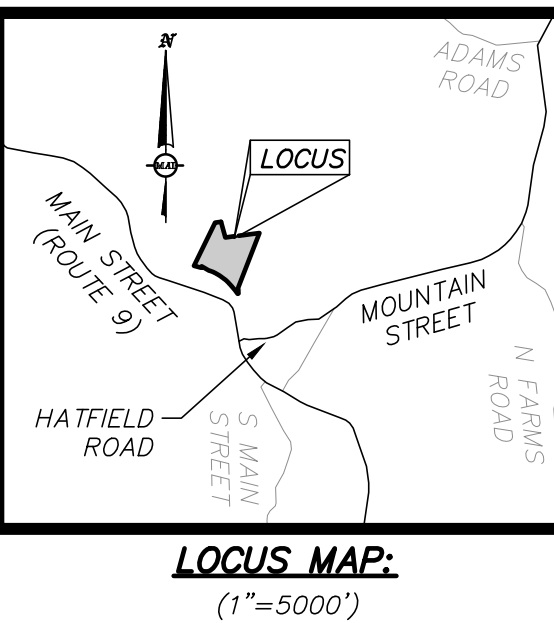
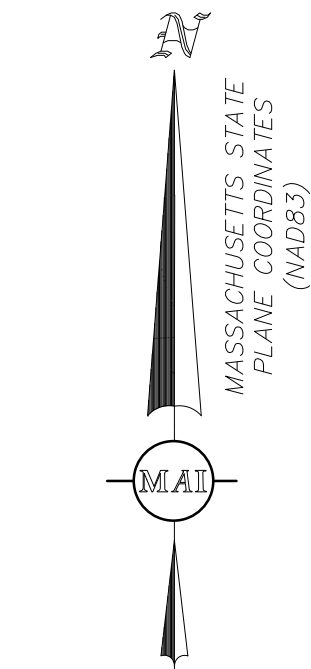
DESIGNED BY: _____
CHECKED BY: _____

DATE:
JANUARY 1, 2019

SCALE:
1" = 20'

SHEET No.
8 OF 13

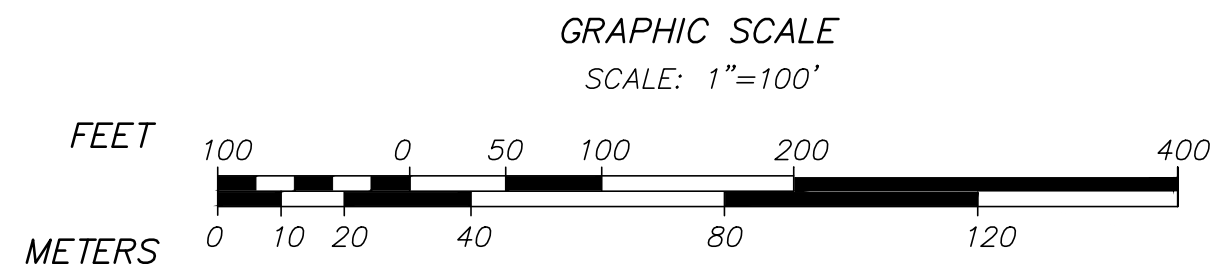
PROJECT No.
6091



- NOTES:**
1. THE PURPOSE OF THIS PLAN IS TO DEPICT THE APPROXIMATE LOCATIONS OF THE PROJECTS CONSTRUCTION PHASES.
 2. REFER TO SHEETS 10-12 (EROSION CONTROL SHEETS), FOR ADDITIONAL NOTES AND INFORMATION.
 3. ONCE EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED IN EACH PHASE AND NECESSARY CLEARING AND STABILIZATION HAS BEEN COMPLETED (AS LISTED ABOVE), ARRAY CONSTRUCTION MAY BEGIN. CONTRACTOR SHALL HAVE FLEXIBILITY TO BEGIN ARRAY CONSTRUCTION IN PHASE I, II OR III OUT OF SEQUENCE AS LONG AS IT IS NOT TO THE DETRIMENT OF EROSION AND SEDIMENTATION CONSIDERATION

SITE PREPARATION SHALL BE CONDUCTED IN MULTIPLE PHASES IN ORDER TO MAXIMIZE EROSION AND SEDIMENTATION CONTROL

- PHASE I:**
1. ESTABLISH PHASE I EROSION AND SEDIMENTATION CONTROL MEASURES (STRAWBALES, SILT FENCE AND FILTERMITT) AS DEPICTED ON SHEETS 10-11 AROUND AREAS OF DISTURBANCE AND MAINTAIN THROUGHOUT CONSTRUCTION IN ACCORDANCE WITH LOCAL REQUIREMENTS. PERFORM INSPECTIONS, REPAIR IF NECESSARY, AND DOCUMENT AFTER EACH PRECIPITATION EVENT OF 0.25-INCHES OR GREATER.
 2. PERFORM LIMITED CLEARING ACTIVITIES IN ORDER TO CONSTRUCT GRAVEL ACCESS DRIVE AND GRASSED ACCESS PATH.
 3. SITE PREPARATION SHALL INCLUDE CLEARING AND REMOVAL OF EXISTING VEGETATION AND DEBRIS. ALL TREES, STUMPS, BRUSH, SHRUBS, ROOTS, GRASS, WEEDS, RUBBISH, BITUMINOUS PAVEMENT, 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. NO STUMPS, TREES, LIMBS, OR BRUSH SHALL BE BURIED IN ANY FILLS OR EMBANKMENTS.
 4. CONSTRUCT INFILTRATION BASINS AND SWALE AS SHOWN ON PLANS.
 5. FOR AREAS WHERE NO GRADING IS PROPOSED, REPAIR UNEVEN AREAS WITHIN LIMITS OF THE SOLAR DEVELOPMENT, AS NECESSARY TO CREATE A TOLERABLE GROUND SURFACE. GENERAL TOLERANCE FOR ALLOWABLE GROUND SLOPE IS TWO FOOT VERTICAL CHANGE OVER A 20 FOOT HORIZONTAL RUN [NOTE THAT THIS REFERS TO THE ALLOWABLE LONGITUDINAL SLOPE (I.E., ALONG THE CONTOUR) AND NOT THE INCLINATION OF THE EXPOSURE (I.E., PERPENDICULAR TO THE CONTOUR)].
 6. UPON SIGNS OF CONCENTRATED FLOW BY EVIDENCE OF GULLYING OR RILLING IN DISTURBED AREAS, STRAWBALES, OR APPROVED EQUAL, SHALL BE PLACED IN THESE AREAS, SPACED EVERY 50' IN THE UPGRADE SLOPE.
 7. ARRAY CONSTRUCTION AS SHOWN.
- PHASE II:**
1. ESTABLISH PHASE II EROSION AND SEDIMENTATION CONTROL MEASURES (STRAWBALES, FILTERMITT & SILT FENCE) AS DEPICTED ON THE PLANS AND AROUND AREAS OF DISTURBANCE AND MAINTAIN THROUGHOUT CONSTRUCTION IN ACCORDANCE WITH LOCAL REQUIREMENTS. PERFORM INSPECTIONS, REPAIR IF NECESSARY, AND DOCUMENT AFTER EACH PRECIPITATION EVENT OF 0.25-INCHES OR GREATER (PHASE I EROSION CONTROL IS TO REMAIN IN PLACE AND MAINTAINED AS DESCRIBED ABOVE).
 2. REPEAT STEPS 2, 3, 5 AND 6 ABOVE FOR PHASE II.
 3. CONSTRUCT SWALE AS SHOWN ON PLANS.
 4. ARRAY CONSTRUCTION AS SHOWN.
- PHASE III:**
1. ESTABLISH PHASE III EROSION AND SEDIMENTATION CONTROL MEASURES (STRAWBALES, FILTERMITT & SILT FENCE) AS DEPICTED ON THE PLANS AND AROUND AREAS OF DISTURBANCE AND MAINTAIN THROUGHOUT CONSTRUCTION IN ACCORDANCE WITH LOCAL REQUIREMENTS. PERFORM INSPECTIONS, REPAIR IF NECESSARY, AND DOCUMENT AFTER EACH PRECIPITATION EVENT OF 0.25-INCHES OR GREATER (PHASE I EROSION CONTROL IS TO REMAIN IN PLACE AND MAINTAINED AS DESCRIBED ABOVE).
 2. REPEAT STEPS 2, 3, 5 AND 6 ABOVE FROM PHASE I FOR PHASE III.
 3. ARRAY CONSTRUCTION AS SHOWN.
 4. ALL DISTURBED AREAS SHALL BE RE-ESTABLISHED WITH "NEW ENGLAND CONSERVATION/WILDLIFE MIX" (DEPICTED HEREIN). IN THE EVENT THAT THE SEEDING FALLS OUTSIDE OF THE RECOMMENDED SEEDING DATES, DISTURBED AREAS SHALL BE RE-ESTABLISHED USING ALTERNATIVE METHODS AS APPROVED BY THE PROJECT SITE ENGINEER.
 5. REMOVE ANY ACCUMULATED SEDIMENT FROM TEMPORARY SEDIMENTATION BASINS. BRING TEMPORARY SEDIMENTATION BASINS TO GRADE AND SEED.
 6. UPON COMPLETION OF CONSTRUCTION ACTIVITIES WITHIN THE LIMIT OF WORK, THE CONTRACTOR SHALL EFFECTIVELY AND PERMANENTLY STABILIZE THE SITE.



AREAS OUTSIDE OF THE FENCE THAT DO NOT REQUIRE GRADING ARE CUT BUT STUMPS REMAIN AND THE GROUND IS 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 NEW ENGLAND CONSERVATION/WILDLIFE MIX SEED AS NEEDED.

TEMPORARY SEDIMENTATION BASINS ARE TO BE INSTALLED IN LOCATIONS UPSTREAM OF ANY EROSION CONTROL BARRIERS WHERE EXCESS SEDIMENT IS OBSERVED DURING THE CONSTRUCTION PROCESS. CONTRACTOR TO LOCATE TEMPORARY SEDIMENTATION BASINS AS THEY DEEM NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE LIMIT OF WORK. AS THE SITE STABILIZES, THE TEMPORARY SEDIMENTATION BASINS CAN BE REMOVED AND BROUGHT TO FINISHED GRADES.

SEE SHEET 3 OF 13 FOR
GENERAL NOTES AND LEGEND

FOR PERMITTING ONLY
NOT FOR CONSTRUCTION

REVISIONS	
DATE	DESCRIPTION
01/25/19	PER PLANNING BOARD REVIEW
01/17/19	PER PLANNING BOARD REVIEW
01/04/19	PER PLANNING BOARD REVIEW
12/6/18	PER PLANNING BOARD REVIEW

**95 MAIN STREET
PHASING PLAN
LOCATED IN
WILLIAMSBURG, MASSACHUSETTS
(HAMPSHIRE COUNTY)**

ZPT ENERGY SOLUTIONS II, LLC

PREPARED FOR

MERIDIAN ASSOCIATES
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BEVERLY, MASSACHUSETTS 01915
TELEPHONE: (978) 299-4447
WWW.MERIDIANASSOC.COM

DESIGNED BY:

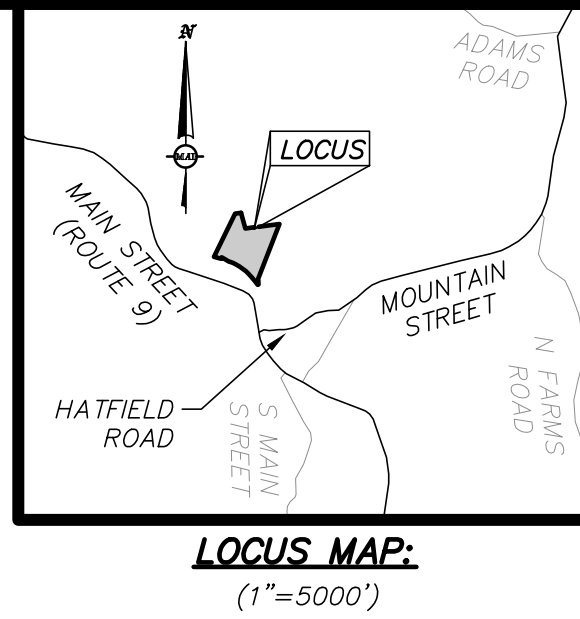
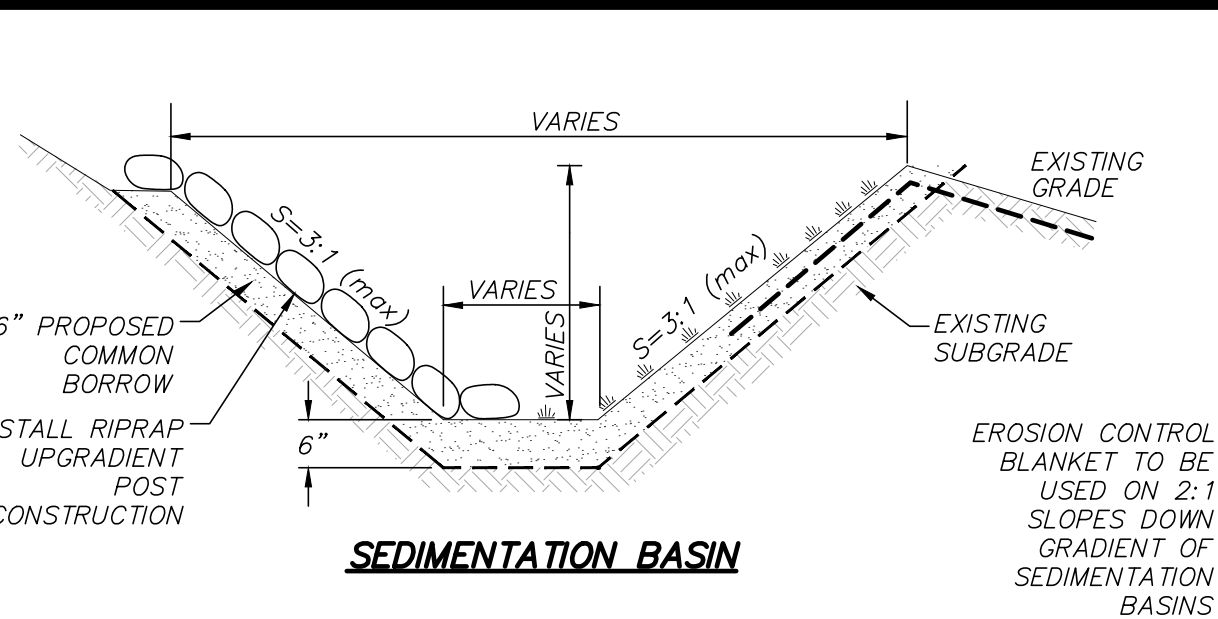
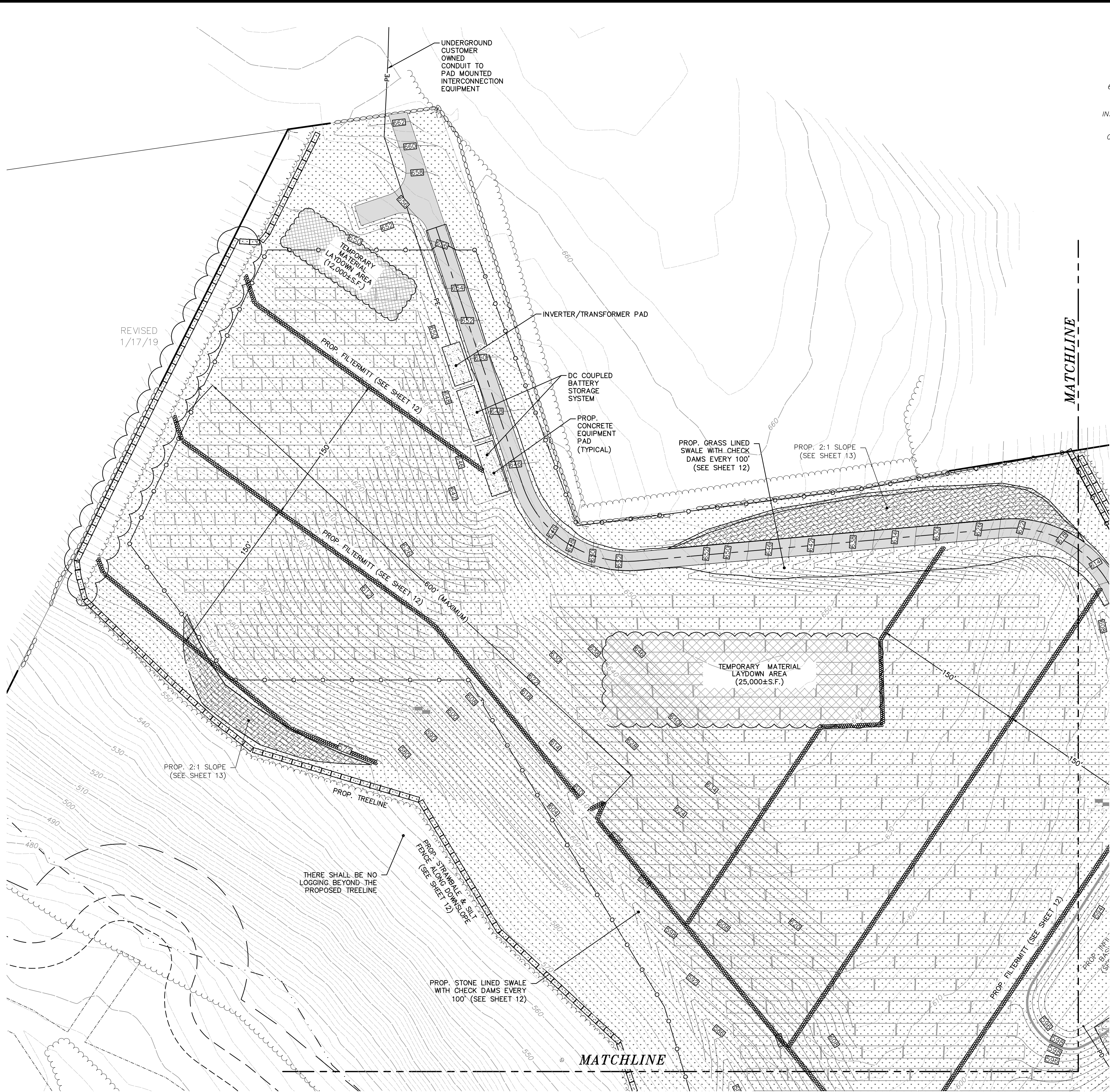
DATE:
JANUARY 1, 2019

SCALE:
1" = 100'

SHEET No.
9 OF 13

PROJECT No.
6091

BK. #672, PG. #69
DWG. NO. 6091_SITE(WEST)-1.DWG.



TEMPORARY SEDIMENTATION BASINS ARE TO BE INSTALLED IN LOCATIONS UPSTREAM OF ANY EROSION CONTROL BARRIERS WHERE EXCESS SEDIMENT IS OBSERVED DURING THE CONSTRUCTION PROCESS. CONTRACTOR TO LOCATE TEMPORARY SEDIMENTATION BASINS AS THEY DEEM NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE LIMIT OF WORK. AS THE SITE STABILIZES, THE TEMPORARY SEDIMENTATION BASINS CAN BE REMOVED AND BROUGHT TO FINISHED GRADES.

CONTRACTOR TO UTILIZE SPRAY MULCH WITH TACKIFIER AS AN ALTERNATIVE TO FILTERMITT WHEN APPLICABLE

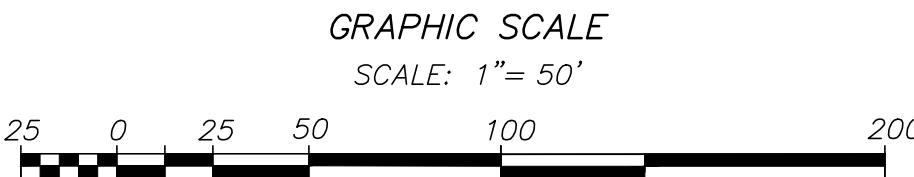
- PROPOSED LEGEND:**

 - PROPOSED TREELINE
 - PROPOSED CONTOUR
 - PE PROPOSED CHAINLINK FENCE
 - PD PROPOSED ELECTRIC CONDUIT
 - PROPOSED DRAIN LINE
 - PROPOSED WALL
 - PROPOSED FLARED END
 - PFE LIMIT OF 200' NO LOGGING ZONE
 - LIMIT OF RIVERFRONT BUFFER
 - 100' WETLAND BUFFER
 - 50' NO BUILD
 - 25' NO DISTURB
 - PROPOSED CONCRETE
 - PROPOSED RIPRAP
 - PROPOSED GRAVEL ACCESS DRIVE
 - PROPOSED GRASSED ACCESS DRIVE
 - PROPOSED 2:1 SLOPE
 - MIN. PROP. TYP. MINIMUM PROPOSED TYPICAL
- EROSION CONTROL LEGEND:**

 - PROPOSED STRAWBALES & SILT FENCE
 - PROPOSED FILTERMITT
 - NEW ENGLAND CONSERVATION/WILDLIFE MIX PLANTING AREA

- EROSION CONTROL NOTES:**
- CONTRACTOR IS TO REFER TO AND COMPLY WITH THE OPERATION AND MAINTENANCE PROGRAM FOR 95 MAIN STREET, PREPARED BY MERIDIAN ASSOCIATES DATED OCTOBER 3, 2018.
 - TRASH MAY COLLECT IN THE BMP'S, POTENTIALLY CAUSING CLOGGING OF THE FACILITY. ALL DEBRIS AND LITTER SHALL BE REMOVED WHEN NECESSARY, AND AFTER EACH STORM EVENT, SEDIMENT AND DEBRIS COLLECTED SHOULD BE DISPOSED OF AT A PERMITTED WASTE DISPOSAL FACILITY. AVOID DISPOSING OF THIS MATERIAL ON SITE, WHERE IT COULD BE WASHED INTO THE PROPOSED BASINS.
 - ANY ON-SITE WASTE INCLUDING WASTE PACKAGING AND IS TO BE PROPERLY STORED AND SECURED AS TO PREVENT WASTE FROM BEING BLOWN AROUND BY THE WIND.
 - ALL UNUSED DEBRIS, SOIL, AND OTHER MATERIAL SHALL BE STOCKPILED IN LOCATIONS OF RELATIVELY FLAT GRADES, AWAY FROM ANY TREES IDENTIFIED TO BE SAVED AND UPGRADIENT OF THE STRAWBALES. STOCKPILE SIDE SLOPES SHALL NOT BE GREATER THAN 2:1. ALL STOCKPILES SHALL BE SURROUNDED BY A ROW OF STRAW BALES, AND SHALL BE PLACED OUTSIDE THE 100 FOOT BUFFER TO ANY BORDERING VEGETATED WETLAND. SURROUNDING STRAW BALES SHALL BE INSPECTED AND MAINTAINED ON A DAILY BASIS.
 - TEMPORARY FILTERMITT IS TO BE INSTALLED IN THE LOCATIONS SHOWN IMMEDIATELY FOLLOWING ANY EARTH DISTURBANCE UPSTREAM OF THE PROPOSED FILTERMITT. THE FILTERMITT IS TO BE MAINTAINED DURING CONSTRUCTION UNTIL FINAL STABILIZATION OCCURS. THE LOCATIONS OF THE FILTERMITT MAY VARY DURING THE INSTALLATION OF THE SOLAR PANELS.
 - TEMPORARY SEDIMENTATION BASINS ARE TO BE INSTALLED IN LOCATIONS SHOWN IMMEDIATELY FOLLOWING ANY EARTH DISTURBANCE UPSTREAM OF THE PROPOSED FILTERMITT. THE FILTERMITT IS TO BE MAINTAINED DURING CONSTRUCTION UNTIL FINAL STABILIZATION OCCURS. THE LOCATIONS OF THE FILTERMITT MAY VARY DURING THE INSTALLATION OF THE SOLAR PANELS.

AREAS OUTSIDE OF THE FENCE THAT DO NOT REQUIRE GRADING ARE CUT BUT STUMPS REMAIN AND THE GROUND IS 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 NEW ENGLAND CONSERVATION/WILDLIFE MIX SEED AS NEEDED.



BK. #672, PG. #69
DWG. NO. 6091_SITE(WEST)-1.DWG.

SEE SHEET 3 OF 13 FOR GENERAL NOTES AND LEGEND
FOR PERMITTING ONLY
NOT FOR CONSTRUCTION

REVISIONS

DATE	DESCRIPTION
01/25/19	PER PLANNING BOARD REVIEW
01/17/19	PER PLANNING BOARD REVIEW
01/04/19	PER PLANNING BOARD REVIEW
12/6/18	PER PLANNING BOARD REVIEW

**95 MAIN STREET
EROSION & SEDIMENT PLAN 1
LOCATED IN
WILLIAMSBURG, MASSACHUSETTS
(HAMPSHIRE COUNTY)
PREPARED FOR
ZPT ENERGY SOLUTIONS II, LLC**

MERIDIAN ASSOCIATES
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TELEPHONE: (978) 299-4447
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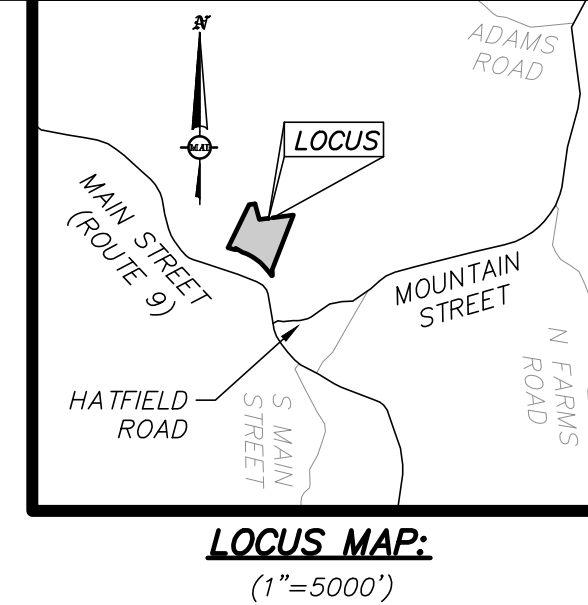
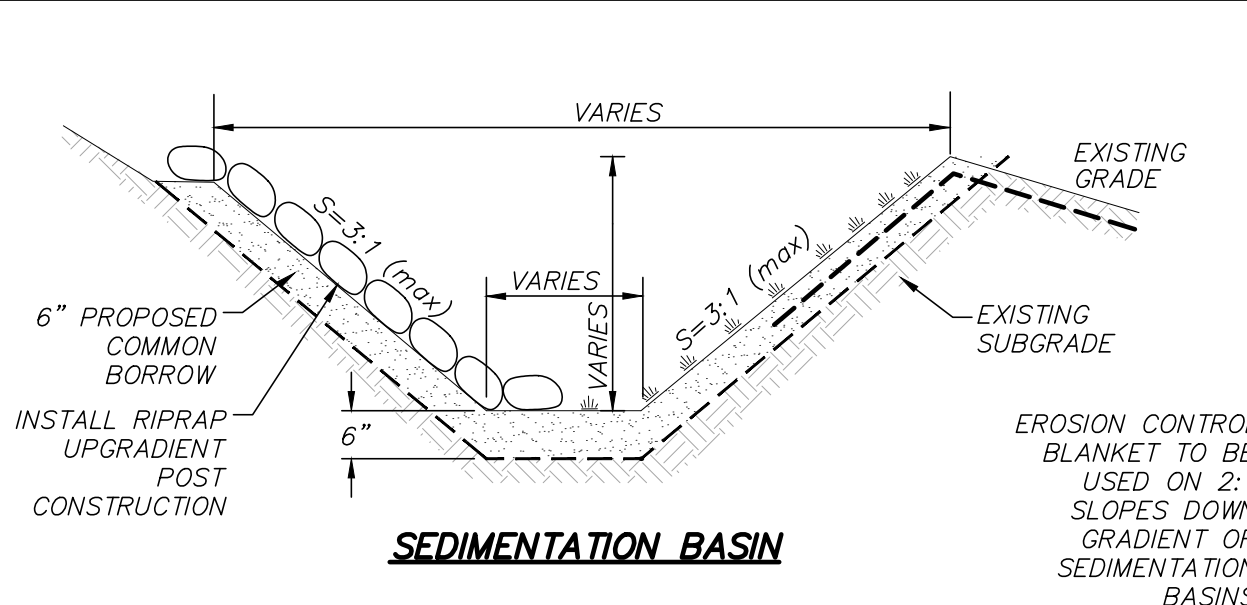
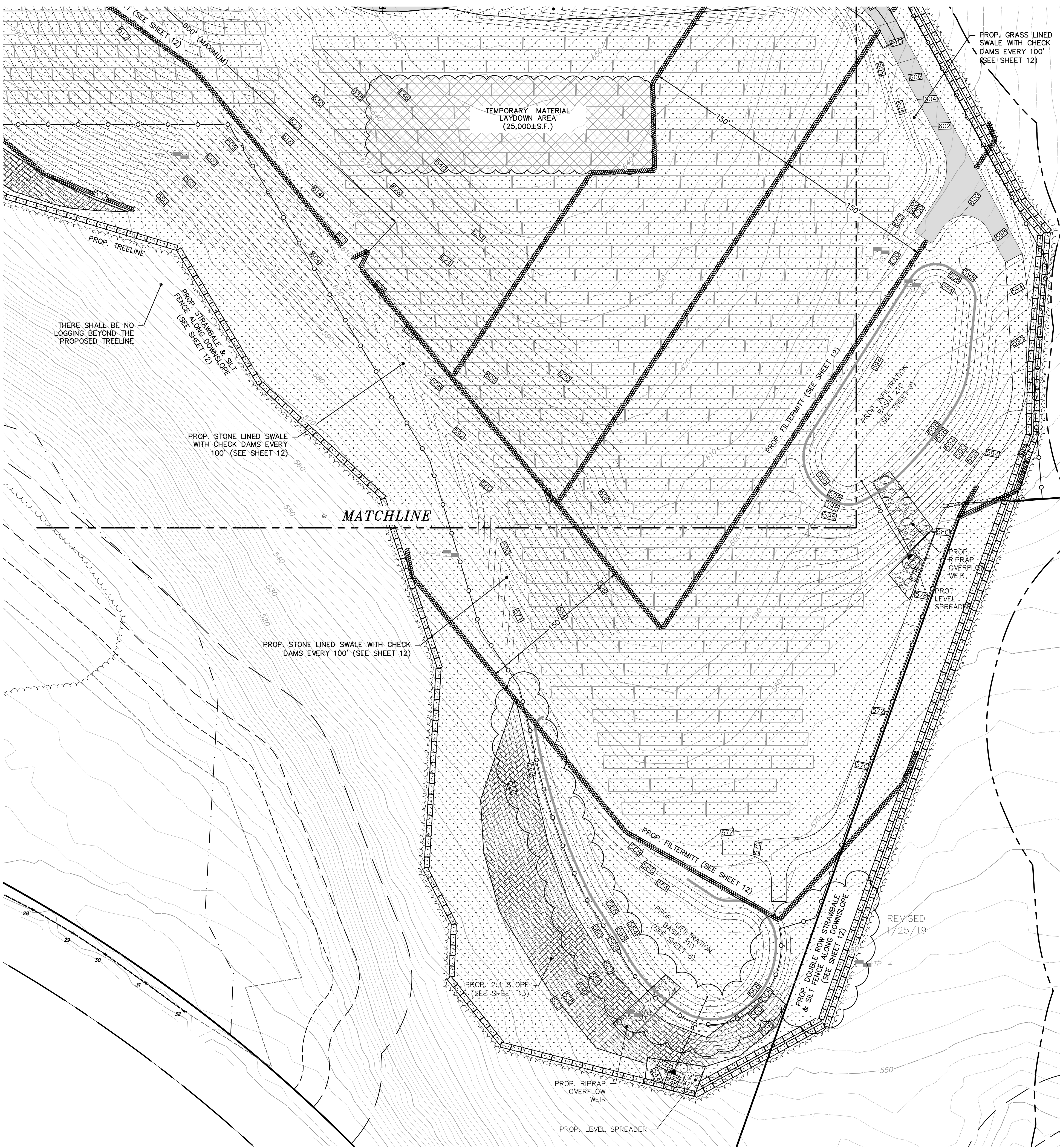
DESIGNED BY: _____
CHECKED BY: _____

DATE:
JANUARY 1, 2019

SCALE:
1" = 50'

SHEET No.
10 OF 13

PROJECT No.
6091



TEMPORARY SEDIMENTATION BASINS ARE TO BE INSTALLED IN LOCATIONS UPSTREAM OF ANY EROSION CONTROL BARRIERS WHERE EXCESS SEDIMENT IS OBSERVED DURING THE CONSTRUCTION PROCESS. CONTRACTOR TO LOCATE TEMPORARY SEDIMENTATION BASINS AS THEY DEEM NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE LIMIT OF WORK. AS THE SITE STABILIZES, THE TEMPORARY SEDIMENTATION BASINS CAN BE REMOVED AND BROUGHT TO FINISHED GRADES.

CONTRACTOR TO UTILIZE SPRAY MULCH WITH TACKIFIER AS AN ALTERNATIVE TO FILTERMITT WHEN APPLICABLE

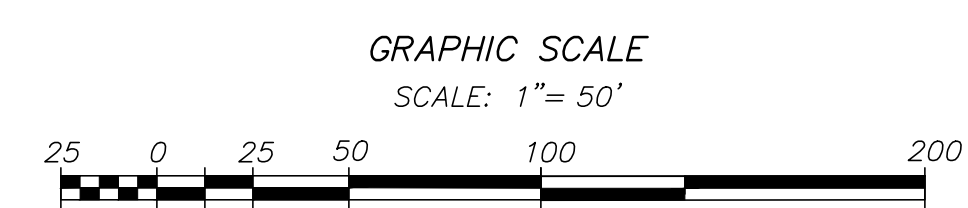
- PROPOSED LEGEND:**

 - PROPOSED TREE LINE
 - PROPOSED CONTOUR
 - PROPOSED CHAINLINK FENCE
 - PE PROPOSED ELECTRIC CONDUIT
 - PD PROPOSED DRAIN LINE
 - PROPOSED WALL
 - PROPOSED FLARED END
 - LIMIT OF 200' NO LOGGING ZONE
 - LIMIT OF RIVERFRONT BUFFER
 - 100' WETLAND BUFFER
 - 50' NO BUILD
 - 25' NO DISTURB
 - PROPOSED CONCRETE
 - PROPOSED RIPRAP
 - PROPOSED GRAVEL ACCESS DRIVE
 - PROPOSED GRASSSED ACCESS DRIVE
 - PROPOSED 2:1 SLOPE
 - MIN PROP. TYP
 - MINIMUM PROPOSED TYPICAL
- EROSION CONTROL LEGEND:**

 - PROPOSED STRAWBALES & SILT FENCE
 - PROPOSED FILTERMITT
 - NEW ENGLAND CONSERVATION/WILDLIFE MIX PLANTING AREA

- EROSION CONTROL NOTES:**
- CONTRACTOR IS TO REFER TO AND COMPLY WITH THE OPERATION AND MAINTENANCE PROGRAM FOR 95 MAIN STREET, PREPARED BY MERIDIAN ASSOCIATES DATED OCTOBER 3, 2018.
 - TRASH MAY COLLECT IN THE BMP'S, POTENTIALLY CAUSING CLOGGING OF THE FACILITY. ALL DEBRIS AND LITTER SHALL BE REMOVED WHEN NECESSARY; AND AFTER EACH STORM EVENT, SEDIMENT AND DEBRIS COLLECTED SHOULD BE DISPOSED OF AT A PERMITTED WASTE DISPOSAL FACILITY. AVOID DISPOSING OF THIS MATERIAL ON SITE, WHERE IT COULD BE WASHED INTO THE PROPOSED BASINS.
 - ANY ON-SITE WASTE INCLUDING WASTE PACKAGING AND IS TO BE PROPERLY STORED AND SECURED AS TO PREVENT WASTE FROM BEING BLOWN AROUND BY THE WIND.
 - ALL UNUSED DEBRIS, SOIL, AND OTHER MATERIAL SHALL BE STOCKPILED IN LOCATIONS OF RELATIVELY FLAT GRADES, AWAY FROM ANY TREES IDENTIFIED TO BE SAVED AND UPGRADIENT OF THE STRAW BALES. STOCKPILE SIDE SLOPES SHALL NOT BE GREATER THAN 2:1. ALL STOCKPILES SHALL BE SURROUNDED BY A ROW OF STRAW BALES, AND SHALL BE PLACED OUTSIDE THE 100 FOOT BUFFER TO ANY BORDERING VEGETATED WETLAND. SURROUNDING STRAW BALES SHALL BE INSPECTED AND MAINTAINED ON A DAILY BASIS.
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AREAS OUTSIDE OF THE FENCE THAT DO NOT REQUIRE GRADING ARE CUT BUT STUMPS REMAIN AND THE GROUND IS 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 NEW ENGLAND CONSERVATION/WILDLIFE MIX SEED AS NEEDED.



REVISIONS

DATE	DESCRIPTION
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01/17/19	PER PLANNING BOARD REVIEW
01/04/19	PER PLANNING BOARD REVIEW
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**95 MAIN STREET
EROSION & SEDIMENT PLAN 2
LOCATED IN
WILLIAMSBURG, MASSACHUSETTS
(HAMPSHIRE COUNTY)
PREPARED FOR
ZPT ENERGY SOLUTIONS II, LLC**

MERIDIAN ASSOCIATES
500 CUMMINGS CENTER, SUITE 5950
BEVERLY, MASSACHUSETTS 01915
TELEPHONE: (978) 299-4447
WWW.MERIDIANASSOC.COM

DESIGNED BY: _____
CHECKED BY: _____

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 TREE CLEARING ALSO DEPICTS THE LIMIT OF WORK TO BE PERFORMED ON THE PROJECT SITE. NO TREES OUTSIDE THE DESIGNATED 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 LARGEST DIAMETER AND SHALL HAVE A MAXIMUM OF 75% 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 (⅔) 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 CRITERIA. 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, THE COMPACTION OF SELECT COMMON FILL SHALL CONSIST OF FOUR COVERAGES OF THE APPROVED EQUIPMENT.
- SITE PREPARATION SHALL INCLUDE CLEARING, GRUBBING, 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.
- 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 STOCKPILES. SILT FENCES, CHECK DAMS, DRAINAGE DITCHES OR SWALES, TEMPORARY SEEDING, AND PRE-MANUFACTURED TEXTILES, GEOTUBES, GEORID, 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 GULLING OR RILLING IN DISTURBED AREAS, STRAWBALES AND/OR STONE CHECK DAMS 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 GERARDII
 - CHAMAECRISTA FASCICULATA
 - PANICUM CLANDESTINUM
 - PANICUM VIRGATUM
 - SORGHASTRUM NUTANS
 - HELENIUM AUTUMNALE
 - HELIOPSIS HELIANTHOIDES
 - VERBENA HASTATA
 - ASOLEPIAS 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.

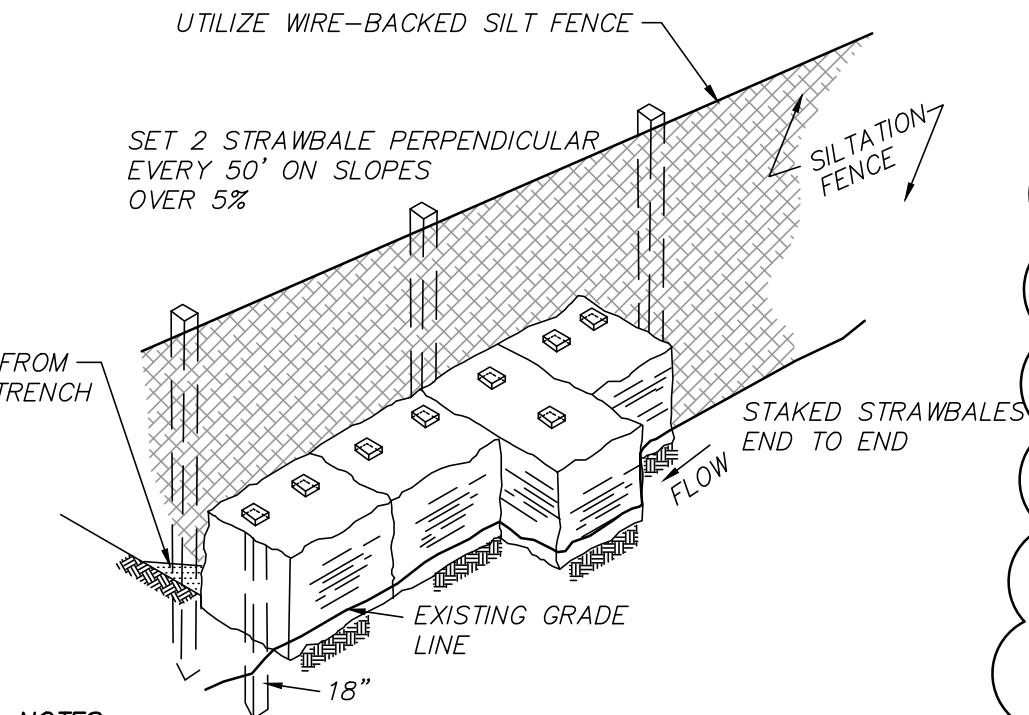
SEED APPLICATION AND RATE:
THE IDEAL PLANTING DEPTH IS 1/4-1/2". UNDER IDEAL CONDITIONS SEEDS LAYING ON THE SURFACE WILL GERMINATE. RECOMMENDED APPLICATION RATE FOR SEEDING IS 1 LBS PER 1,750 SQUARE FEET.

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



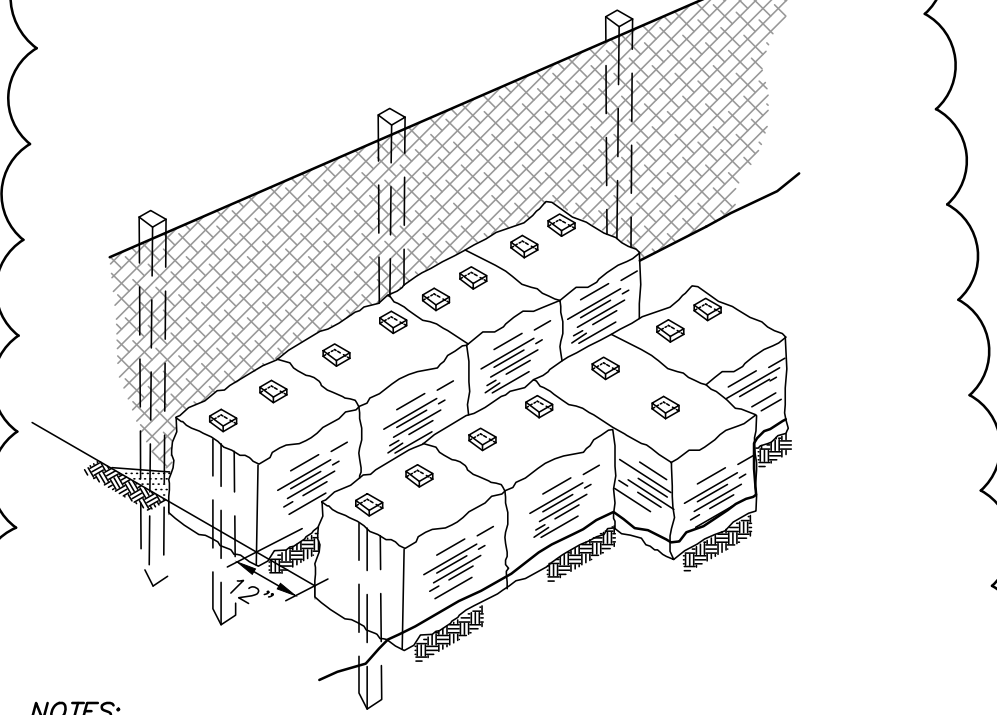
NOTES:

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

STRAWBALE WITH SILT FENCE BARRIER

(NOT TO SCALE)

REVISED
1/25/19



NOTES:

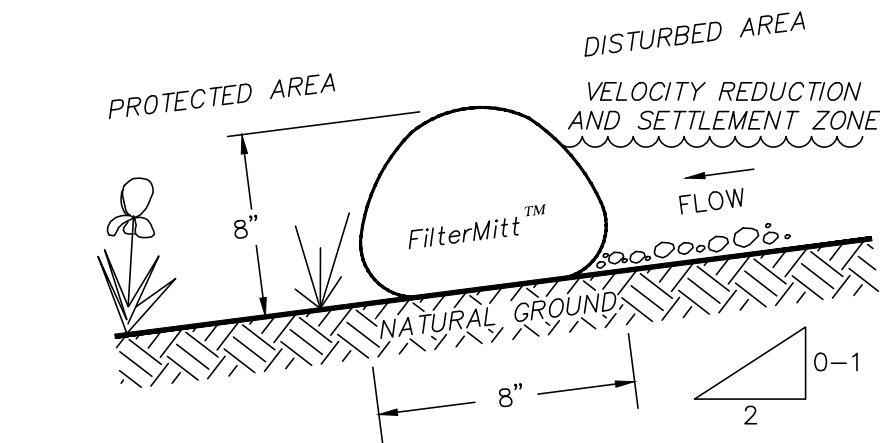
- BALES TO BE TIED WITH ORGANIC FIBER TWINE ONLY NO PLASTIC OR WIRE.
- STRAWBALES TO BE SECURED WITH A MINIMUM OF TWO (2) 1" x 1" WOODEN STAKES PER BAILE DRIVEN 18" MIN. INTO GRADE.

DOUBLE ROW STRAWBALE WITH SILT FENCE BARRIER

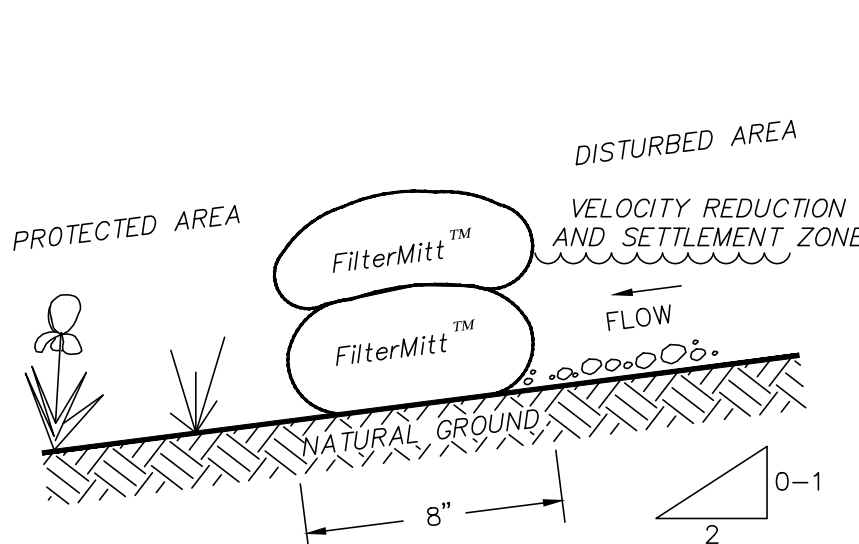
(NOT TO SCALE)

REVISED
1/25/19

SECTION END VIEW



UNION END VIEW



FilterMitt™ COMPONENTS:

- OUTSIDE CASING: 100% organic hessian.
- FILLER INGREDIENT: FiberRoot Mulch™
- A BLEND OF COARSE AND FINE COMPOST AND SHREDDED WOOD.
 - PARTICLE SIZES: 100% PASSING A 3" SCREEN; 90-100% PASSING A 1" SCREEN; 70-100% PASSING A 0.75" SCREEN; 30-75% PASSING A 0.25" SCREEN.
 - WEIGHT: APPROX. 310 LBS./CU.YD. (AVE. 11.5 LBS./L.F.)

For more information visit:
www.groundscapesexpress.com or
contact us at:

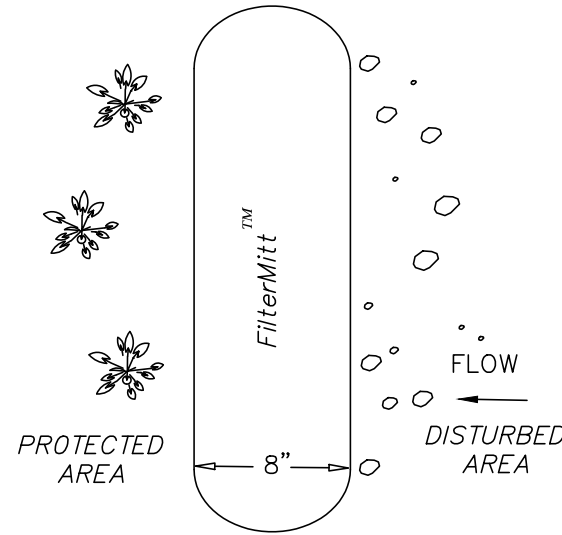
Groundscapes Express, Inc.

P.O. Box 737
Wrentham, MA 02093
(508) 384-7140

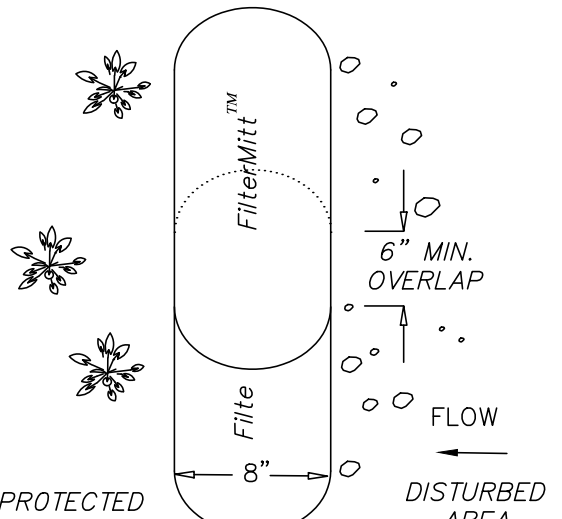
FILTERMITT

(NOT TO SCALE)

SECTION TOP VIEW



UNION TOP VIEW



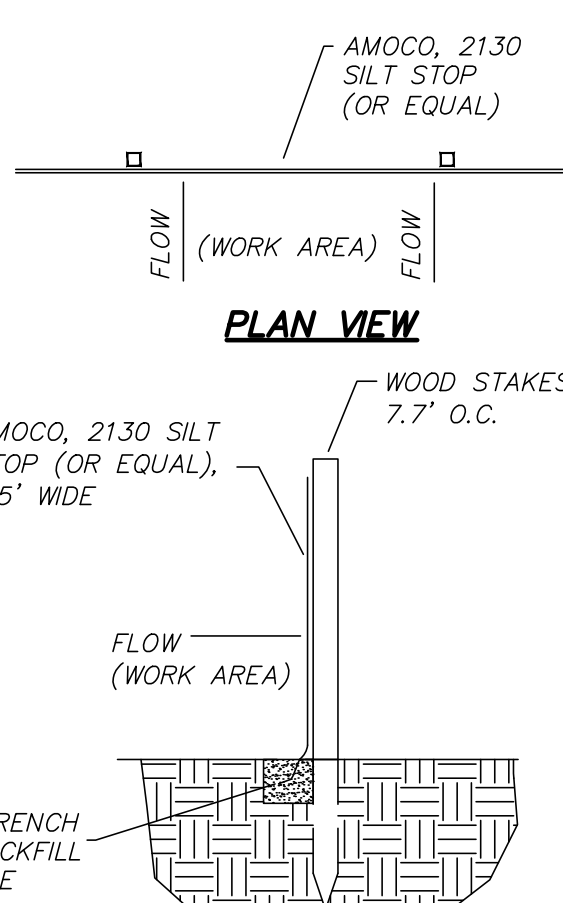
FilterMitt™ INSTALLATION:

WITH THE NEWEST TECHNOLOGY AND EQUIPMENT, SECTIONS CAN BE CONSTRUCTED ON SITE IN LENGTHS FROM 1' TO 100'.

SECTIONS CAN ALSO BE DELIVERED TO THE SITE IN LENGTHS FROM 1' TO 8'.

THE FLEXIBILITY OF FilterMitt™ ALLOWS IT TO CONFORM TO ANY CONTOUR OR TERRAIN WHILE HOLDING A SLIGHTLY ROUND SHAPE AT 8" HIGH BY 8" WIDE.

WHERE SECTION ENDS MEET, THERE SHALL BE AN OVERLAP OF 6" OR GREATER.

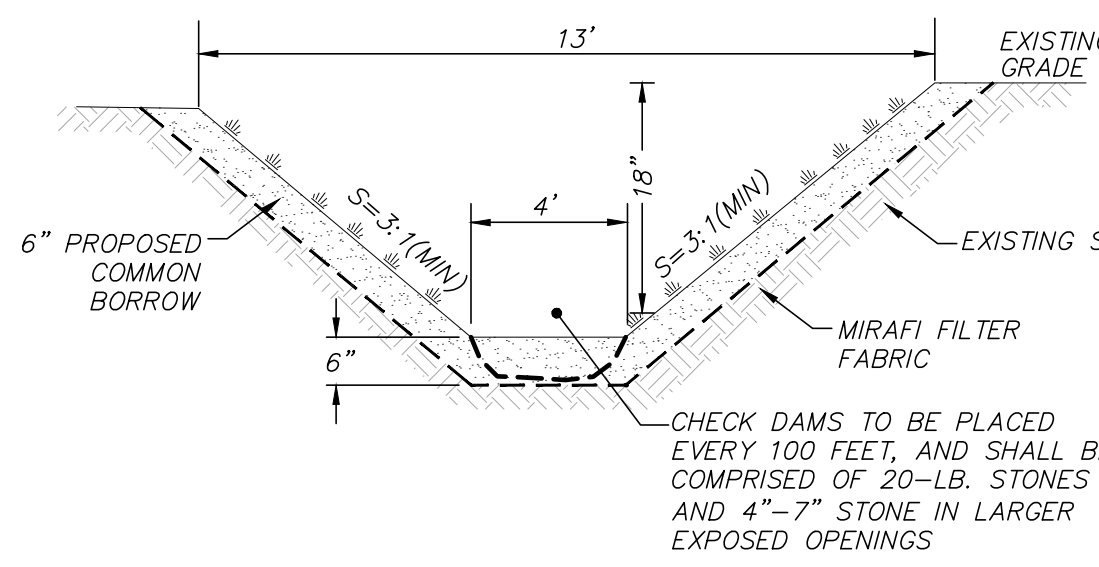


CROSS SECTION

(NOT TO SCALE)

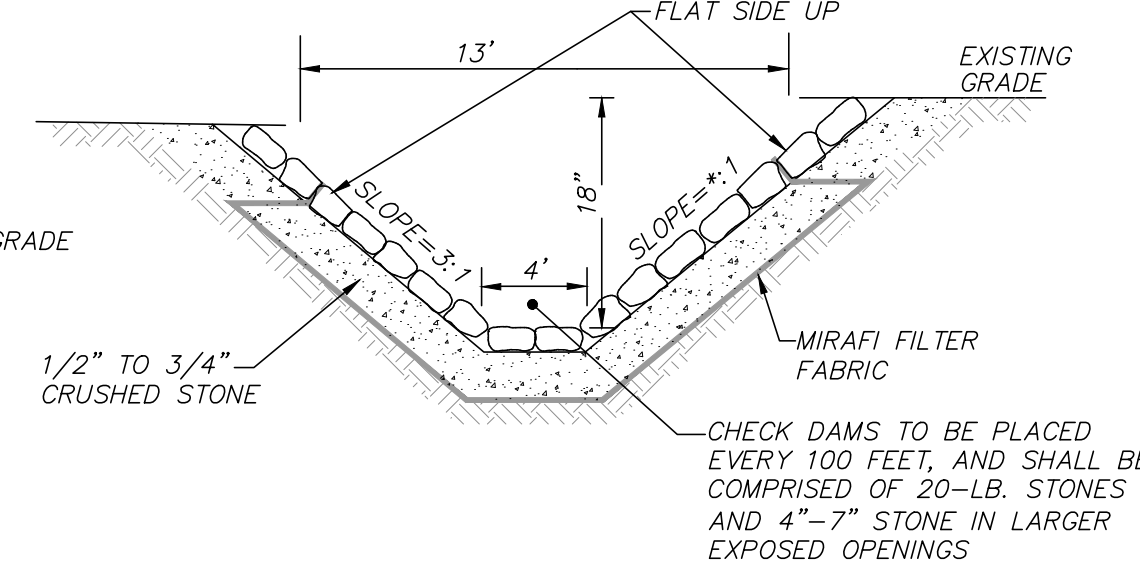
EROSION CONTROL BLANKET, OR APPROVED EQUAL

(NOT TO SCALE)



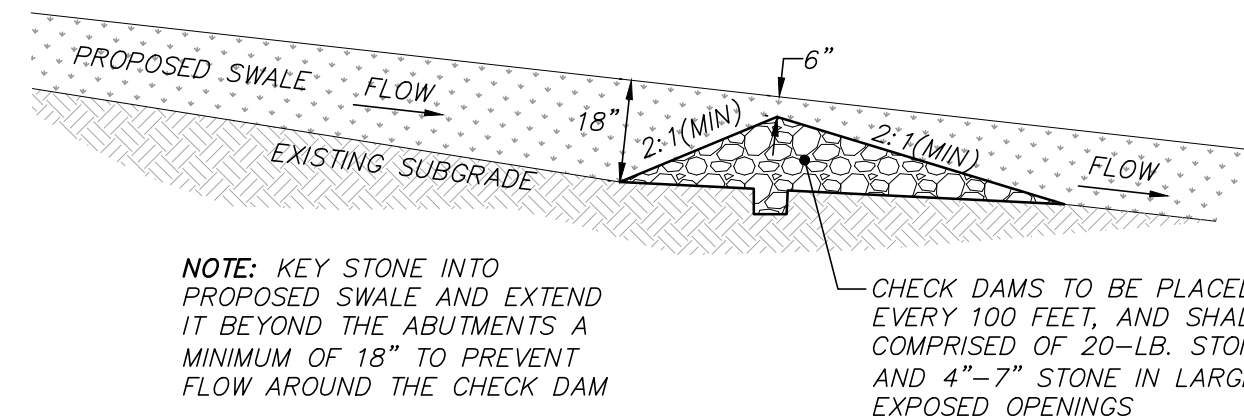
GRASS LINED SWALE DETAIL

(NOT TO SCALE)



STONE LINED DRAINAGE SWALE

(NOT TO SCALE)



TYPICAL STONE CHECK DAM

(NOT TO SCALE)

EAST COAST
erosion control

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

Material and Performance Specification

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:

	70% Straw	30% Coconut	Net Color
Netting:	1" x 0.5"		Green
Top:	Medium weight UV Stabilized Polypropylene		
Middle:	None		
Bottom:	Lightweight Photodegradable Polypropylene		

Net Opening:

	0.5" x 0.5"	Middle	Bottom
			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:

Property	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

Bench Scale Testing™ (NTPEP®)

Property	Test Method	Parameters	Results
ECTC Method 2 Rainfall		50mm (2in) / hr-30 min	SLR**=8.52
		100mm (4in) / hr-30 min	SLR**=11.01
		150mm (6in) / hr-30 min	SLR**=14.28
ECTC Method 3 Shear Resistance		Shear at .50 in soil loss	2.16 lb/ft²
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:

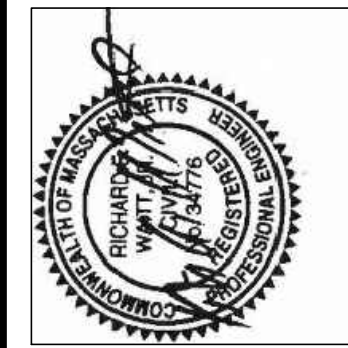
Property	Test Method	Value
Unvegetated Shear Stress	ASTM D 6460	2.25 lb/ft² 107.73 Pa
Unvegetated Velocity	ASTM D 6460	8.0 ft/s 2.44 m/s
Vegetated Shear Stress	NA	N/A lb/ft² N/A Pa
Vegetated Velocity	NA	N/A ft/s N/A m/s
Manning's N (Value Represents a Range)		0.029

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

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

The values presented are for guidance purposes and do not constitute the practice of engineering. East Coast Erosion Blankets, LLC (ECEB) asserts that at the time of manufacture, all information presented herein is accurate and reliable and falls within the ECEB manufacturing product specification variances. If the product does not meet the stated values and ECEB is notified in writing prior to installation, the product will be replaced at no cost to the purchaser. ECEB will not be held liable for any type of damage or losses, directly or indirectly the failure of this product. Current revision supersedes all historical versions for this product.

REVISIONS		DATE	DESCRIPTION
01/25/19	PER PLANNING BOARD REVIEW	CE	
01/17/19	PER PLANNING BOARD REVIEW	CR	
01/04/19	PER PLANNING BOARD REVIEW	CR	
12/6/18	PER PLANNING BOARD REVIEW	CR	



95 MAIN STREET
EROSION & SEDIMENT NOTES
LOCATED IN
WILLIAMSBURG, MASSACHUSETTS
(HAMPSHIRE COUNTY)
PREPARED FOR
ZPT ENERGY SOLUTIONS II, LLC

MERIDIAN ASSOCIATES
500 CUMMINGS CENTER, SUITE 5950
BEVERLY, MASSACHUSETTS 01915
TELEPHONE: (978) 299-4447
WWW.MERIDIANASSOC.COM

DATE:
JANUARY 1, 2019
SCALE:
NOT TO SCALE

SHEET No.
12 OF 13

PROJECT No.
6091

BK. #672, PG. #69
DWG. NO. 6091_SITE(WEST)-1.DWG.

FOR PERMITTING ONLY
NOT FOR CONSTRUCTION

