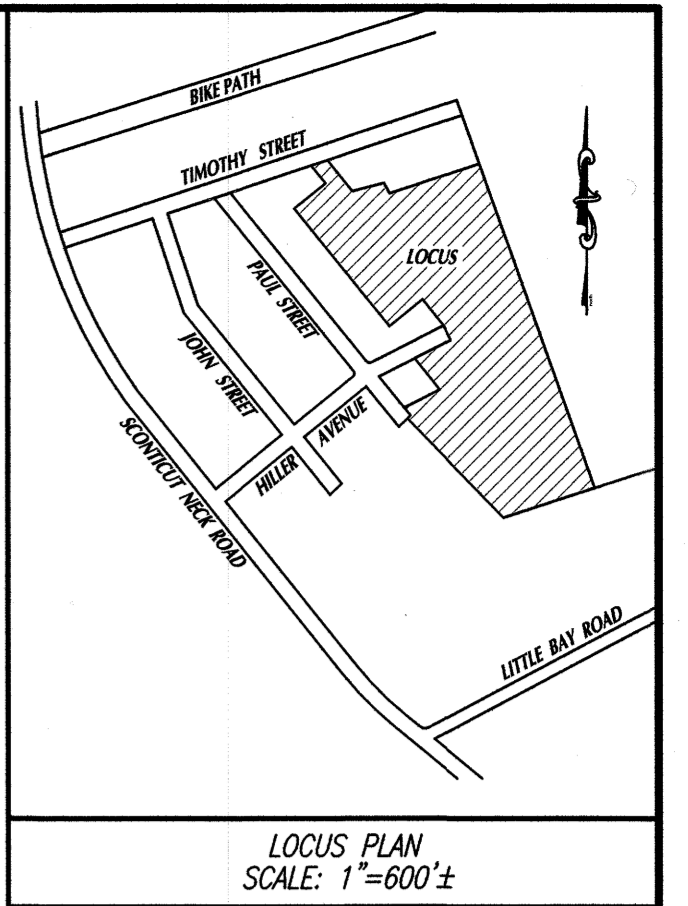


"SCONTICUT NECK WOODS" DEFINITIVE SUBDIVISION PLAN

FOR REGISTRY OF DEEDS USE ONLY

"I CERTIFY THAT THIS PLAN CONFORMS
THE RULES AND REGULATIONS OF THE
REGISTERS OF DEEDS."

A.M. D.
PREPARER

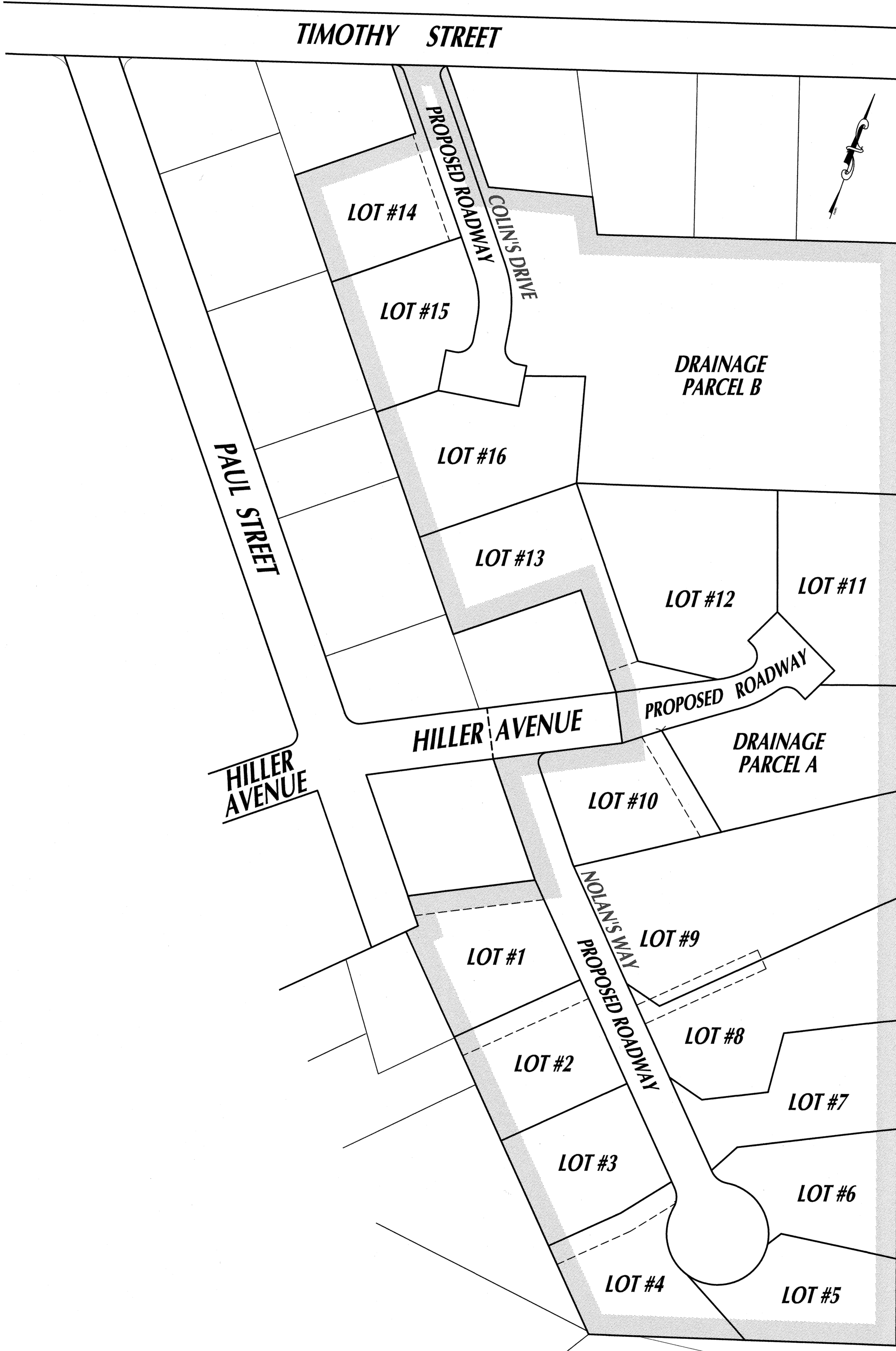


LOCUS PLAN
SCALE: 1"=600'±

PROPERTY INFORMATION:

ASSESSORS MAP: #28C
ASSESSORS LOT: #71 and #71A
LOCATION: HILLER STREET & TIMOTHY STREET
APPLICANTS/OWNERS:
JIMMY A. PAPAS & NICKOLAS L. PAPAS
c/o: JIMMY PAPAS, 14 BELMONT STREET
NEW BEDFORD, MA 02744
DEED BOOK 3956, PAGE 132
DEVELOPER:
ROBERT RODERIGUES
ZONING DISTRICT:
RESIDENCE A (RA)
MINIMUM LOT AREA: 15,000 Sq.Ft.
MIN. CONTIGUOUS UPLAND: 13,500 Sq.Ft.
MINIMUM FRONTAGE: 100.00 Ft.
MINIMUM BUILDING SETBACKS:
FRONT: 20' SIDE: 10'
REAR: 30'
MAXIMUM LOT COVERAGE = 50%
MAXIMUM BUILDING COVERAGE = 30%
TOTAL PROJECT/SITE LOT AREA = 10.85± ACRES
FEMA FLOOD ZONE: ZONE X
F.I.R.M. PANEL No.: 25005C0394C

NOTE: TWO PERMANENT CONCRETE MARKERS MUST
BE PLACED ON THE SITE PRIOR TO CONSTRUCTION



PLAN INDEX

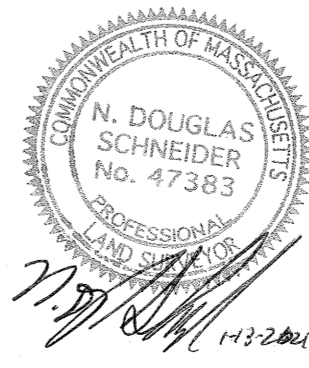
SHEET 1	"COVER SHEET"
SHEET 2	"LOTTING PLAN - NORTH & SOUTH"
SHEET 3	"EXISTING TOPOGRAPHICAL PLAN"
SHEET 4	"PROPOSED TOPOGRAPHICAL PLAN - NORTH"
SHEET 5	"PROPOSED TOPOGRAPHICAL PLAN - SOUTH"
SHEET 6	"PROPOSED UTILITY PLAN - NORTH"
SHEET 7	"PROPOSED UTILITY PLAN - SOUTH"
SHEET 8	"PROPOSED ROAD PROFILE PLAN - NORTH"
SHEET 9	"PROPOSED ROAD PROFILE PLAN - SOUTH"
SHEET 10	"CONSTRUCTION DETAILS"
SHEET 11	"CONSTRUCTION DETAILS"

6	1-12-21	D.M.D.	ADD WETLAND CREATION AREAS #1 & #2
5	12-03-20	D.M.D.	PER CON COM REVIEW - ADJUST NO ACTIVITY ZONE
4	12-02-19	D.M.D.	PEER REVIEW
3	8-30-19	D.M.D.	PEER REVIEW
2	5-17-19	D.M.D.	ADD ROAD PROFILES, CONSTRUCTION DETAILS CHANGE COMPANY NAME, PRELIMINARY TO DEFINITIVE
1	4-11-19	D.M.D.	REVISE GRADING & OMT WAIVERS
Rev. #	DATE	BY	DESCRIPTION

FAIRHAVEN PLANNING BOARD
APPROVED UNDER SUBDIVISION CONTROL LAW

DATE APPROVED: _____
DATE SIGNED: _____

"THE ABOVE ENDORSEMENT IS NOT A
DETERMINATION AS TO CONFORMANCE WITH
ZONING REGULATIONS OR A DETERMINATION
THAT THE LOT IS BUILDABLE."



"DEFINITIVE SUBDIVISION PLAN"
OF DEVELOPMENT TO BE KNOWN AS
"SCONTICUT NECK WOODS"
OFF
HILLER AVENUE and TIMOTHY STREET
IN
FAIRHAVEN, MA
PREPARED FOR
ROBERT RODERIGUES

SHEET 1 OF 11 SHEETS
COVER SHEET

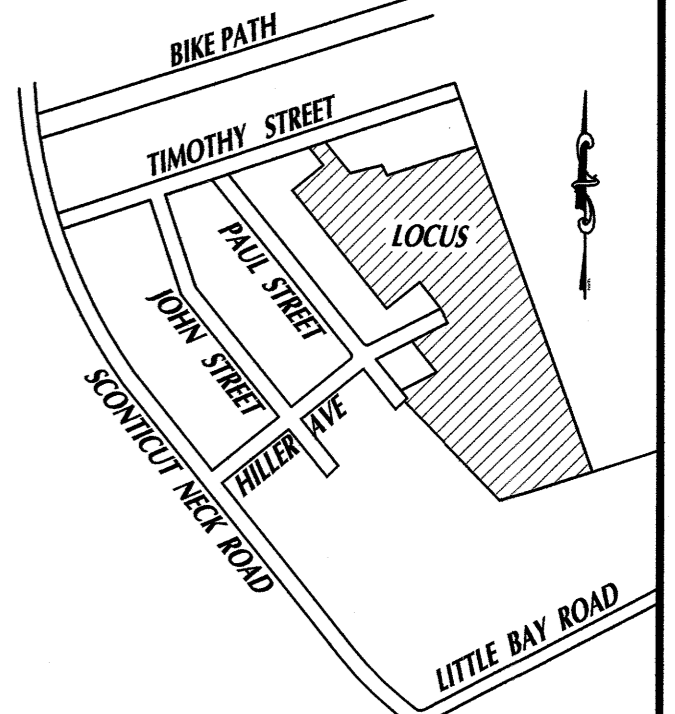
SCALE: 1"=60' DATE: NOVEMBER 8, 2018
0 60 120 180

SCHNEIDER, DAVIGNON & LEONE, INC.
PROFESSIONAL CIVIL ENGINEERS & LAND SURVEYORS
1 COUNTY RD, P.O. BOX 480, MATTAPOISETT, MA 02739
1-508-759-7866

Drawn By: D.M.D. Check By: N.D.S. Job No. 3072

I CERTIFY THAT THIS PLAN CONFORMS WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS.
David M. A. Leone
 PREPARER

FOR REGISTRY USE ONLY

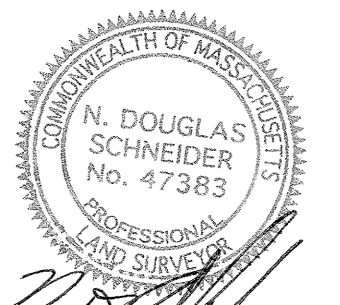
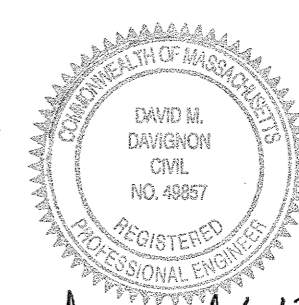


PROPERTY INFORMATION:

ASSESSORS MAP: #28C
 ASSESSORS LOT: #71 and #71A
 LOCATION: HILLER STREET & TIMOTHY STREET
 APPLICANTS/OWNERS:
 JIMMY A. PAPAS & NICKOLAS L. PAPAS
 C/O: JIMMY PAPAS, 14 BELMONT STREET
 NEW BEDFORD, MA 02744
 DEED BOOK 3956, PAGE 132
 DEVELOPER:
 ROBERT RODERIGUES
 ZONING DISTRICT:
 RESIDENCE A (RA)
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 MIN. CONTIGUOUS UPLAND: 13,500 Sq.Ft.
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 MINIMUM BUILDING SETBACKS:
 FRONT: 20' SIDE: 10'
 REAR: 30'
 MAXIMUM LOT COVERAGE = 50%
 MAXIMUM BUILDING COVERAGE = 30%
 TOTAL PROJECT/SITE LOT AREA = 10.85± ACRES
 FEMA FLOOD ZONE: ZONE X
 F.I.R.M. PANEL No.: 2500500394G
 NOTE: TWO PERMANENT CONCRETE MARKERS MUST BE PLACED ON THE SITE PRIOR TO CONSTRUCTION

LEGEND

- IR = IRON ROD
- DH = DRILL HOLE
- FND = FOUND
- CB = CONCRETE BOUND
- SB = STONE BOUND
- TD = TOTAL DISTANCE
- = CONCRETE BOUNDS TO BE SET



David M. A. Leone
 1-18-21

FAIRHAVEN TOWN CLERK CERTIFICATION:

"I, _____, CLERK OF THE TOWN OF FAIRHAVEN HEREBY CERTIFY THAT NOTICE OF APPROVAL OF THIS PLAN BY THE PLANNING BOARD WAS RECEIVED AND RECORDED AT THIS OFFICE ON _____ AND THAT NO NOTICE OF APPEAL WAS RECEIVED DURING THE TWENTY DAYS NEXT FOLLOWING SUCH RECEIPT AND RECORDING OF SAID NOTICE."

TOWN CLERK _____ DATE _____

Rev. #	DATE	BY	DESCRIPTION
6	1-12-21	D.M.D.	ADD WETLAND CREATION AREAS #1 & #2
5	12-03-20	D.M.D.	PER CON COM REVIEW - ADJUST NO ACTIVITY ZONE
4	12-02-19	D.M.D.	PEER REVIEW
3	8-30-19	D.M.D.	PEER REVIEW
2	5-17-19	D.M.D.	ADD ROAD PROFILES, CONSTRUCTION DETAILS CHANGE COMPANY NAME, PRELIMINARY TO DEFINITIVE
1	4-11-19	D.M.D.	REVISE GRADING & OMIT WAINERS

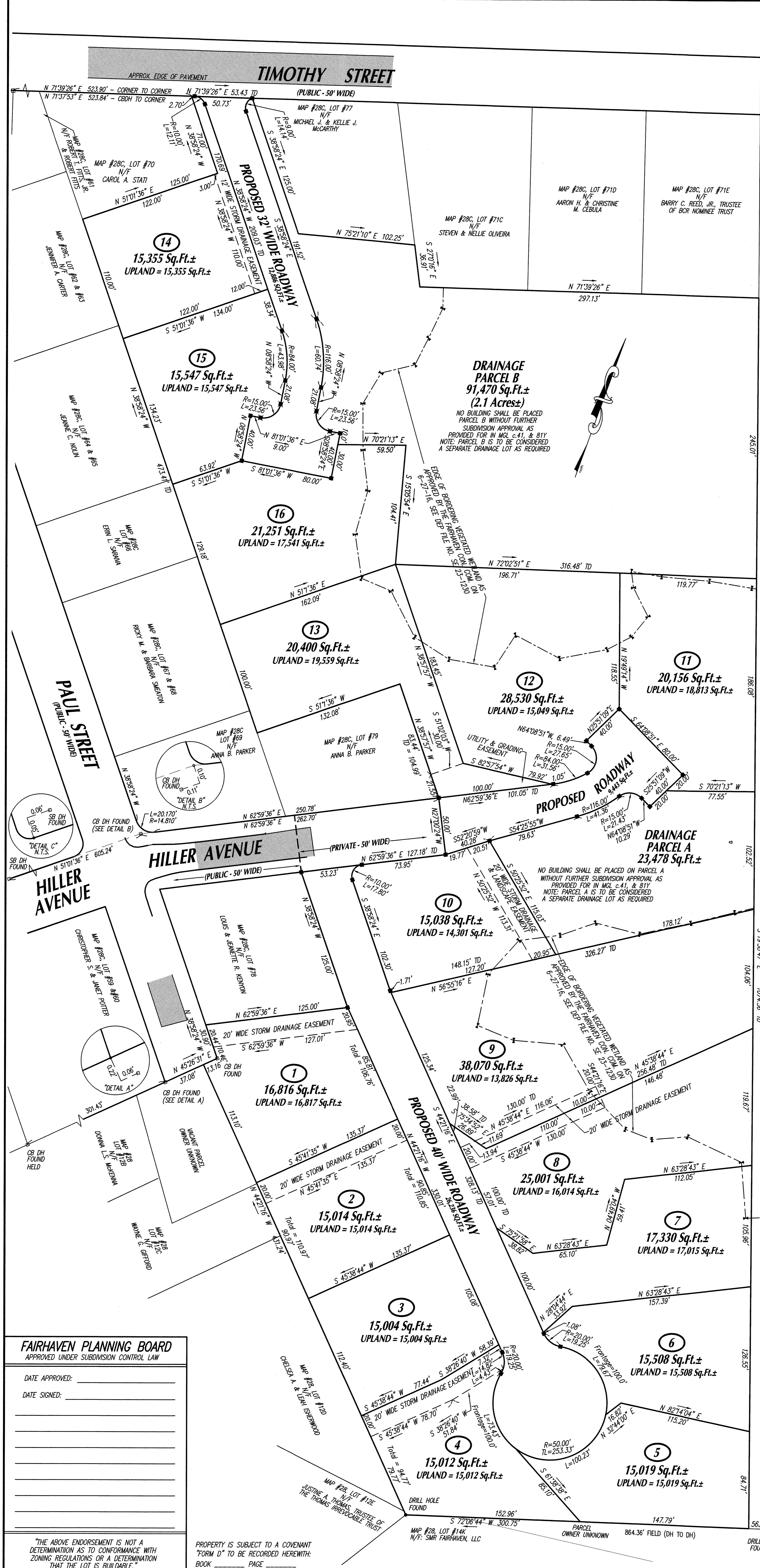
"DEFINITIVE SUBDIVISION PLAN"
 OF DEVELOPMENT TO BE KNOWN AS
"SCOTICUT NECK WOODS"
 OFF
HILLER AVENUE and TIMOTHY STREET
 IN
FAIRHAVEN, MA
 PREPARED FOR
ROBERT RODERIGUES

SHEET 2 OF 11 SHEETS
 "LOTING PLAN - NORTH & SOUTH"

SCALE: 1"=40' DATE: NOVEMBER 8, 2018
 0 20 40 80 120

SCHNEIDER, DAVIGNON & LEONE, INC.
 PROFESSIONAL CIVIL ENGINEERS & LAND SURVEYORS
 1 COUNTY RD., P.O. BOX 480, MATTAPOISETT, MA 02739
 1-508-758-7866

Drawn By: D.M.D. Check By: N.D.S. Job No. 3072

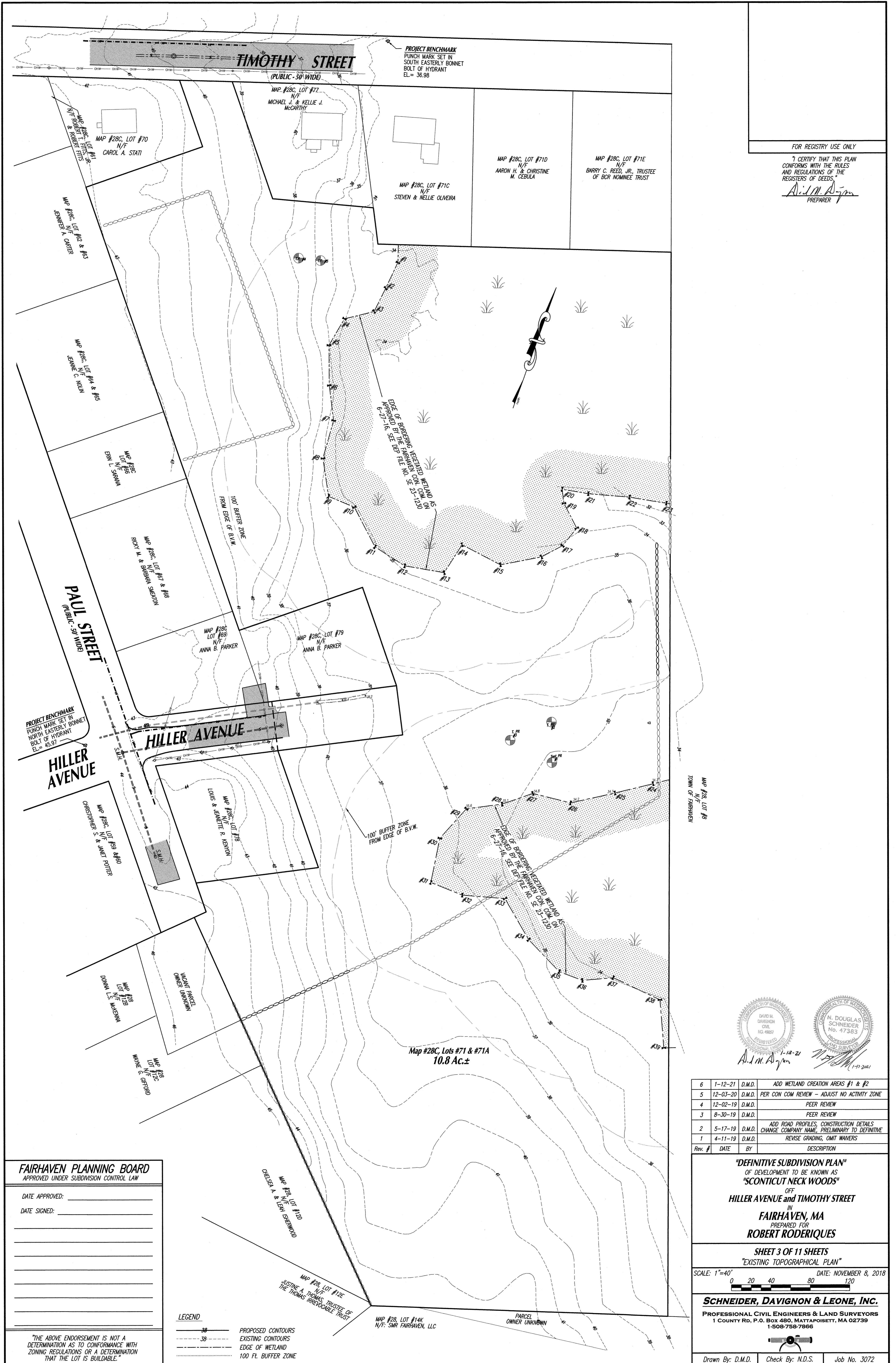


FAIRHAVEN PLANNING BOARD
 APPROVED UNDER SUBDIVISION CONTROL LAW

DATE APPROVED: _____
 DATE SIGNED: _____

"THE ABOVE ENDORSEMENT IS NOT A DETERMINATION AS TO CONFORMANCE WITH ZONING REGULATIONS OR A DETERMINATION THAT THE LOT IS BUILDABLE."

PROPERTY IS SUBJECT TO A COVENANT "FORM D" TO BE RECORDED HERewith: BOOK _____ PAGE _____



FOR REGISTRY USE ONLY
 I CERTIFY THAT THIS PLAN
 CONFORMS WITH THE RULES
 AND REGULATIONS OF THE
 REGISTER OF DEEDS.
A. M. Dym
 PREPARER

PROJECT BENCHMARK
 PUNCH MARK SET IN
 NORTH EASTERLY BONNET
 BOLT OF HYDRANT
 EL. = 45.57

PROJECT BENCHMARK
 PUNCH MARK SET IN
 SOUTH EASTERLY BONNET
 BOLT OF HYDRANT
 EL. = 36.98

DAVID M. DAVIGNON
 CIVIL
 REG. NO. 49887
 PROFESSIONAL CIVIL ENGINEER
 AND SURVEYOR

N. DOUGLAS SCHNEIDER
 CIVIL
 REG. NO. 47383
 PROFESSIONAL CIVIL ENGINEER
 AND SURVEYOR

A. M. Dym 1-13-21
N. Dym 1-13-21

Rev. #	DATE	BY	DESCRIPTION
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2	5-17-19	D.M.D.	ADD ROAD PROFILES, CONSTRUCTION DETAILS CHANGE COMPANY NAME, PRELIMINARY TO DEFINITIVE
1	4-11-19	D.M.D.	REVISE GRADING, OMIT WAIVERS

FAIRHAVEN PLANNING BOARD
 APPROVED UNDER SUBDIVISION CONTROL LAW

DATE APPROVED: _____
 DATE SIGNED: _____

LEGEND
 - - - - - 30' PROPOSED CONTOURS
 - - - - - 38' EXISTING CONTOURS
 - - - - - EDGE OF WETLAND
 - - - - - 100 FT. BUFFER ZONE

"THE ABOVE ENDORSEMENT IS NOT A DETERMINATION AS TO CONFORMANCE WITH ZONING REGULATIONS OR A DETERMINATION THAT THE LOT IS BUILDABLE."

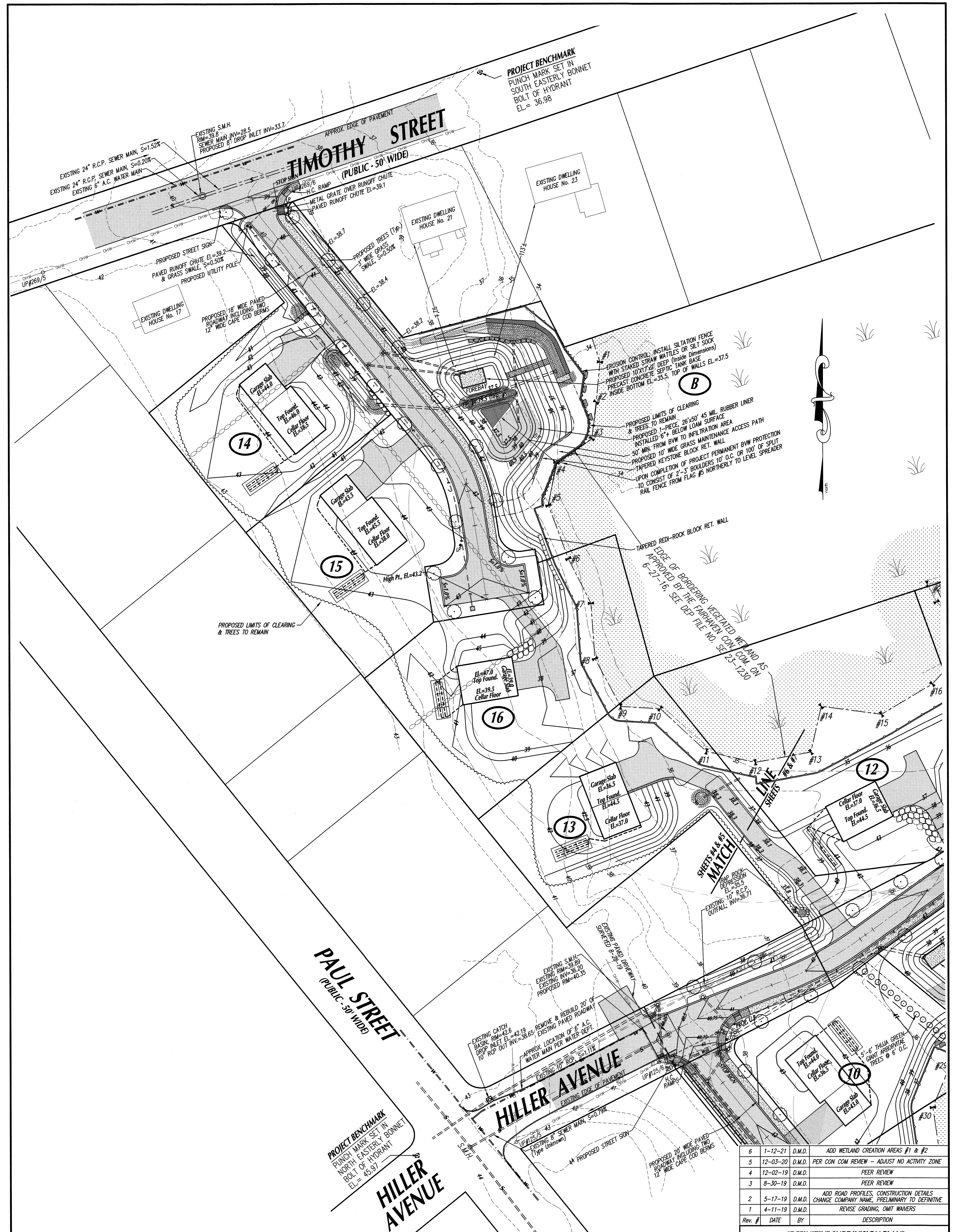
"DEFINITIVE SUBDIVISION PLAN"
 OF DEVELOPMENT TO BE KNOWN AS
"SCONTICUT NECK WOODS"
 OFF
HILLER AVENUE AND TIMOTHY STREET
 IN
FAIRHAVEN, MA
 PREPARED FOR
ROBERT RODERIGUES

SHEET 3 OF 11 SHEETS
"EXISTING TOPOGRAPHICAL PLAN"

SCALE: 1"=40' DATE: NOVEMBER 8, 2018
 0 20 40 80 120

SCHNEIDER, DAVIGNON & LEONE, INC.
 PROFESSIONAL CIVIL ENGINEERS & LAND SURVEYORS
 1 COUNTY RD., P.O. BOX 480, MATTAPOISETT, MA 02739
 1-508-758-7866

Drawn By: D.M.D. Check By: N.D.S. Job No. 3072



PROJECT BENCHMARK
PUNCH MARK SET IN
SOUTH EASTERLY BONNET
BOLT OF HYDRANT
EL.= 36.98



Rev. #	DATE	BY	DESCRIPTION
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"DEFINITIVE SUBDIVISION PLAN"
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OFF
HILLER AVENUE AND TIMOTHY STREET
IN
FAIRHAVEN, MA
PREPARED FOR
ROBERT RODRIGUES

SHEET 4 OF 11 SHEETS
"PROPOSED TOPOGRAPHICAL PLAN - NORTH"

SCALE: 1"=30' DATE: NOVEMBER 8, 2018

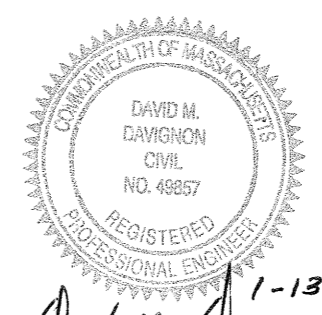
SCHNEIDER, DAVIGNON & LEONE, INC.
PROFESSIONAL CIVIL ENGINEERS & LAND SURVEYORS
1 COUNTY RD, P.O. BOX 480, MATTAPOISETT, MA 02739
1-508-758-7866

Drawn By: D.M.D. Check By: N.D.S. Job No. 3072

FAIRHAVEN PLANNING BOARD
APPROVED UNDER SUBDIVISION CONTROL LAW

DATE APPROVED: _____
DATE SIGNED: _____

I CERTIFY THAT THIS PLAN
CONFORMS WITH THE RULES
AND REGULATIONS OF THE
REGISTERS OF DEEDS.
A.J.M. Aguiar
PREPARER



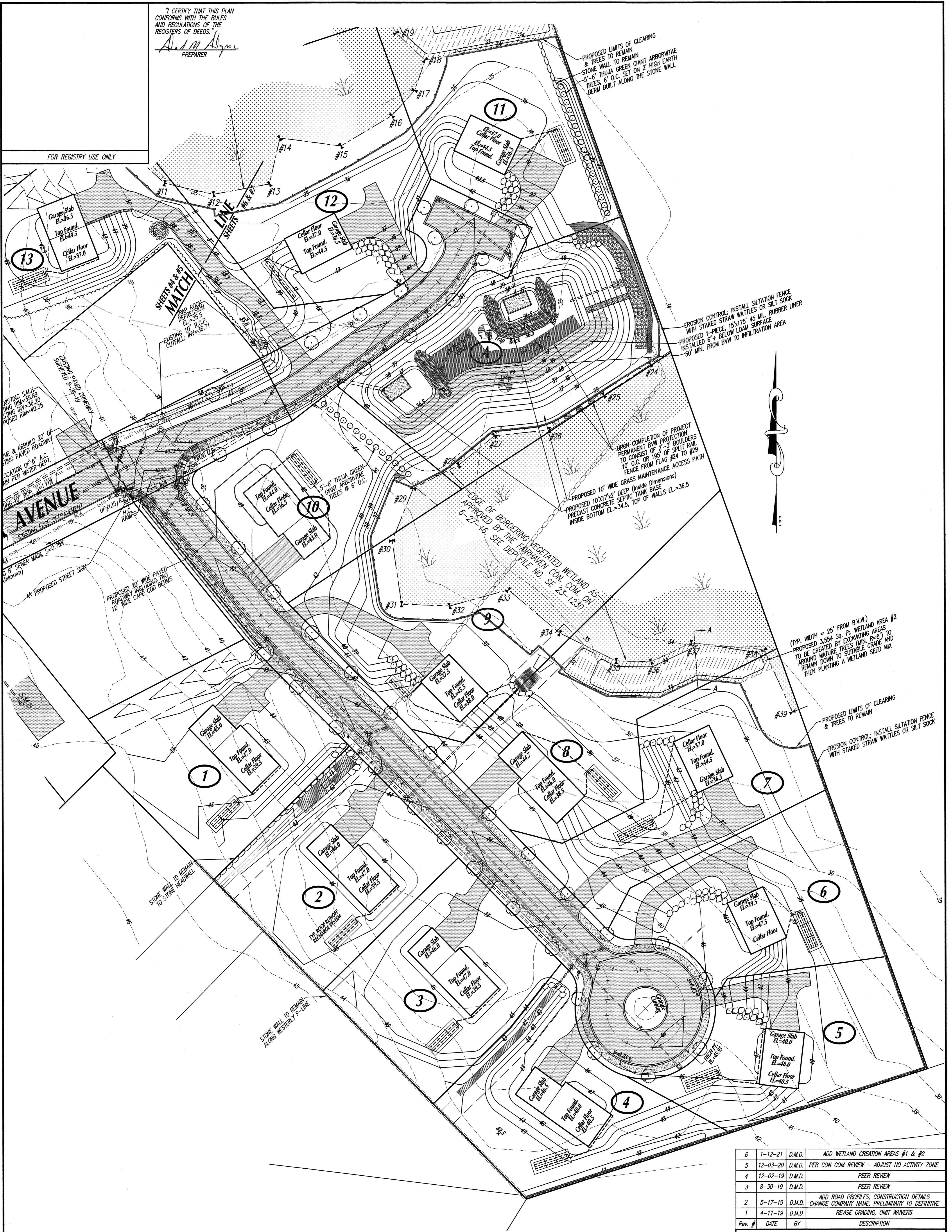
A.J.M. Aguiar 1-13-21

FOR REGISTRY USE ONLY

I CERTIFY THAT THIS PLAN
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A. M. Aguirre
PREPARER

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FAIRHAVEN PLANNING BOARD
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"THE ABOVE ENDORSEMENT IS NOT A DETERMINATION AS TO CONFORMANCE WITH ZONING REGULATIONS OR A DETERMINATION THAT THE LOT IS BUILDABLE."

"DEFINITIVE SUBDIVISION PLAN"
OF DEVELOPMENT TO BE KNOWN AS
"SCOTIC NECK WOODS"
OFF
HILLER AVENUE AND TIMOTHY STREET
IN
FAIRHAVEN, MA
PREPARED FOR
ROBERT RODRIGUES

SHEET 5 OF 11 SHEETS
"PROPOSED TOPOGRAPHICAL PLAN - SOUTH"

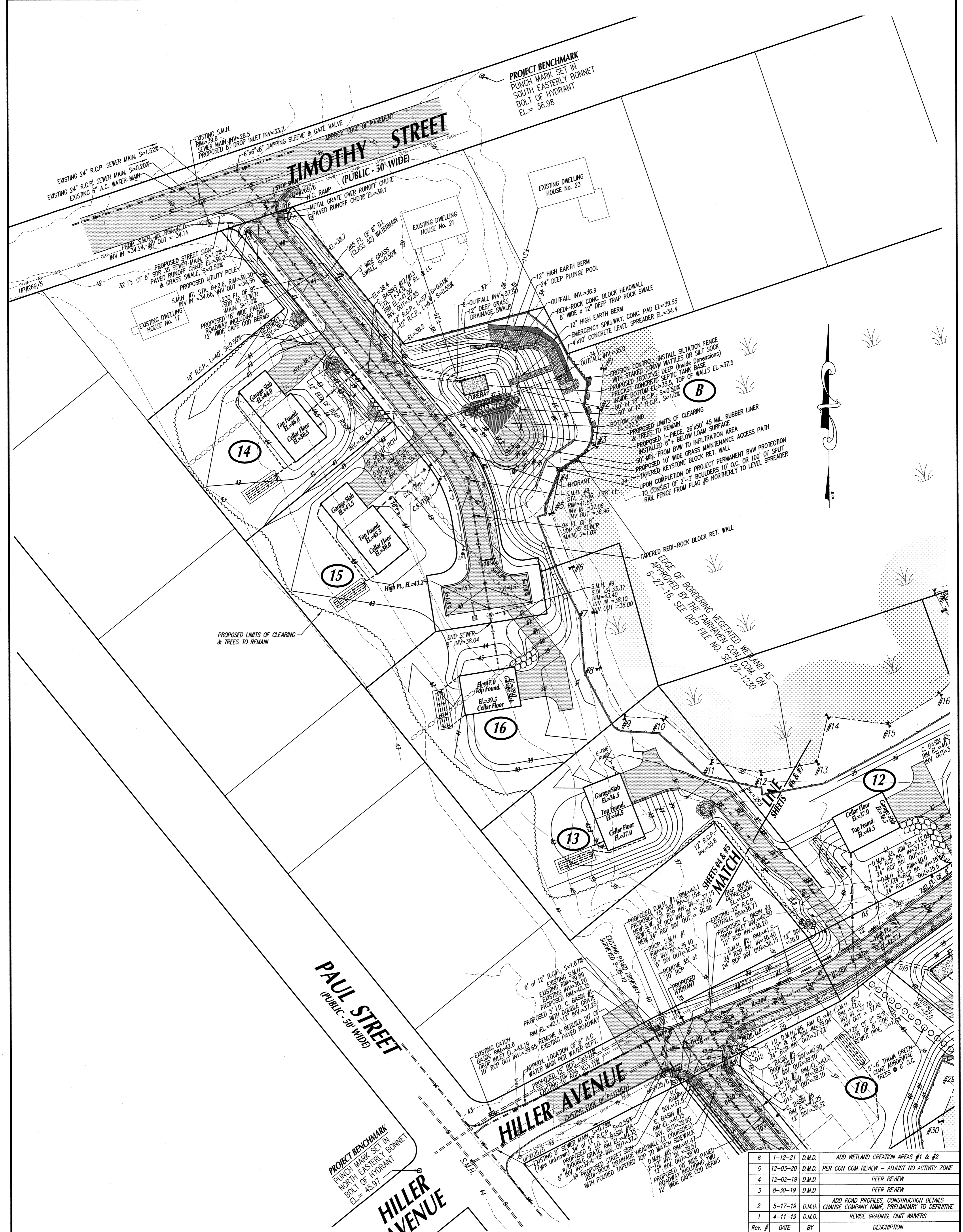
SCALE: 1"=30' DATE: NOVEMBER 8, 2018

SCHNEIDER, DAVIGNON & LEONE, INC.
PROFESSIONAL CIVIL ENGINEERS & LAND SURVEYORS
1 COUNTY RD, P.O. BOX 480, MATTAPOISETT, MA 02739
1-508-758-7866

Drawn By: D.M.D. Check By: N.D.S. Job No. 3072



A. M. Aguirre 1-13-21



PROJECT BENCHMARK
PUNCH MARK SET IN
SOUTH EASTERLY BONNET
BOLT OF HYDRANT
EL. = 36.98



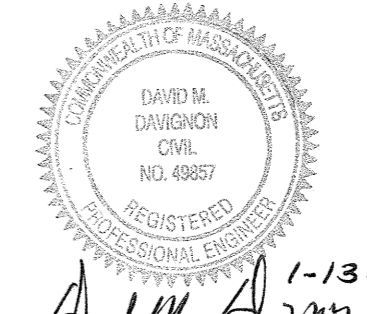
PROJECT BENCHMARK
PUNCH MARK SET IN
NORTH EASTERLY BONNET
BOLT OF HYDRANT
EL. = 45.97

FAIRHAVEN PLANNING BOARD
APPROVED UNDER SUBDIVISION CONTROL LAW

DATE APPROVED: _____
DATE SIGNED: _____

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CONFORMS WITH THE RULES
AND REGULATIONS OF THE
REGISTERS OF DEEDS.
A. J. M. A.
PREPARER

FOR REGISTRY USE ONLY



A. J. M. A. 1-13-21

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"DEFINITIVE SUBDIVISION PLAN"
OF DEVELOPMENT TO BE KNOWN AS
"SCONTICUT NECK WOODS"
OFF
HILLER AVENUE AND TIMOTHY STREET
IN
FAIRHAVEN, MA
PREPARED FOR
ROBERT RODRIGUES

SHEET 6 OF 11 SHEETS
"PROPOSED UTILITY PLAN - NORTH"

SCALE: 1"=30'
0 30 60 90
DATE: NOVEMBER 8, 2018

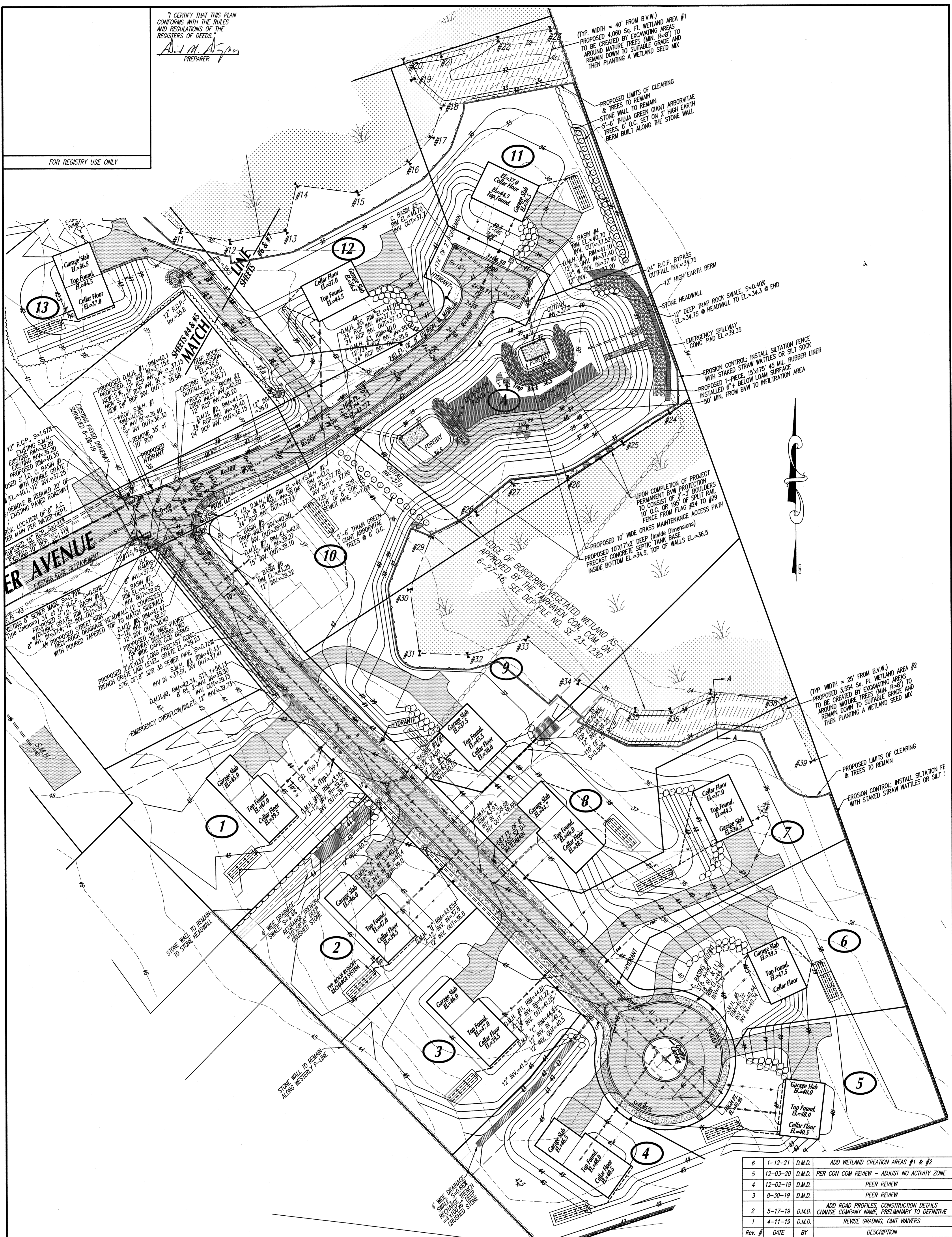
SCHNEIDER, DAVIGNON & LEONE, INC.
PROFESSIONAL CIVIL ENGINEERS & LAND SURVEYORS
1 COUNTY RD, P.O. BOX 480, MATTAPOISETT, MA 02739
1-508-758-7866

Drawn By: D.M.D. Check By: N.D.S. Job No. 3072

"THE ABOVE ENDORSEMENT IS NOT A DETERMINATION AS TO CONFORMANCE WITH ZONING REGULATIONS OR A DETERMINATION THAT THE LOT IS BUILDABLE."

I CERTIFY THAT THIS PLAN CONFORMS WITH THE RULES AND REGULATIONS OF THE REGISTER OF DEEDS.
A. M. Roderiques
 PREPARER

FOR REGISTRY USE ONLY



FAIRHAVEN PLANNING BOARD
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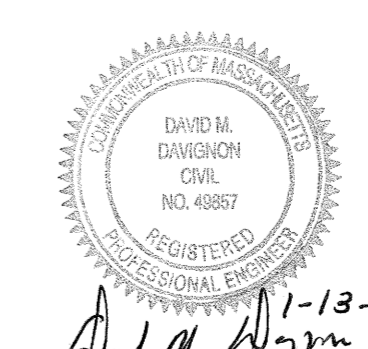
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 IN
FAIRHAVEN, MA
 PREPARED FOR
ROBERT RODERQUES

SHEET 7 OF 11 SHEETS
 "PROPOSED UTILITY PLAN - SOUTH"

SCALE: 1"=30' DATE: NOVEMBER 8, 2018

SCHNEIDER, DAVIGNON & LEONE, INC.
 PROFESSIONAL CIVIL ENGINEERS & LAND SURVEYORS
 1 COUNTY RD. P.O. BOX 480, MATTAPOISETT, MA 02739
 1-508-758-7866

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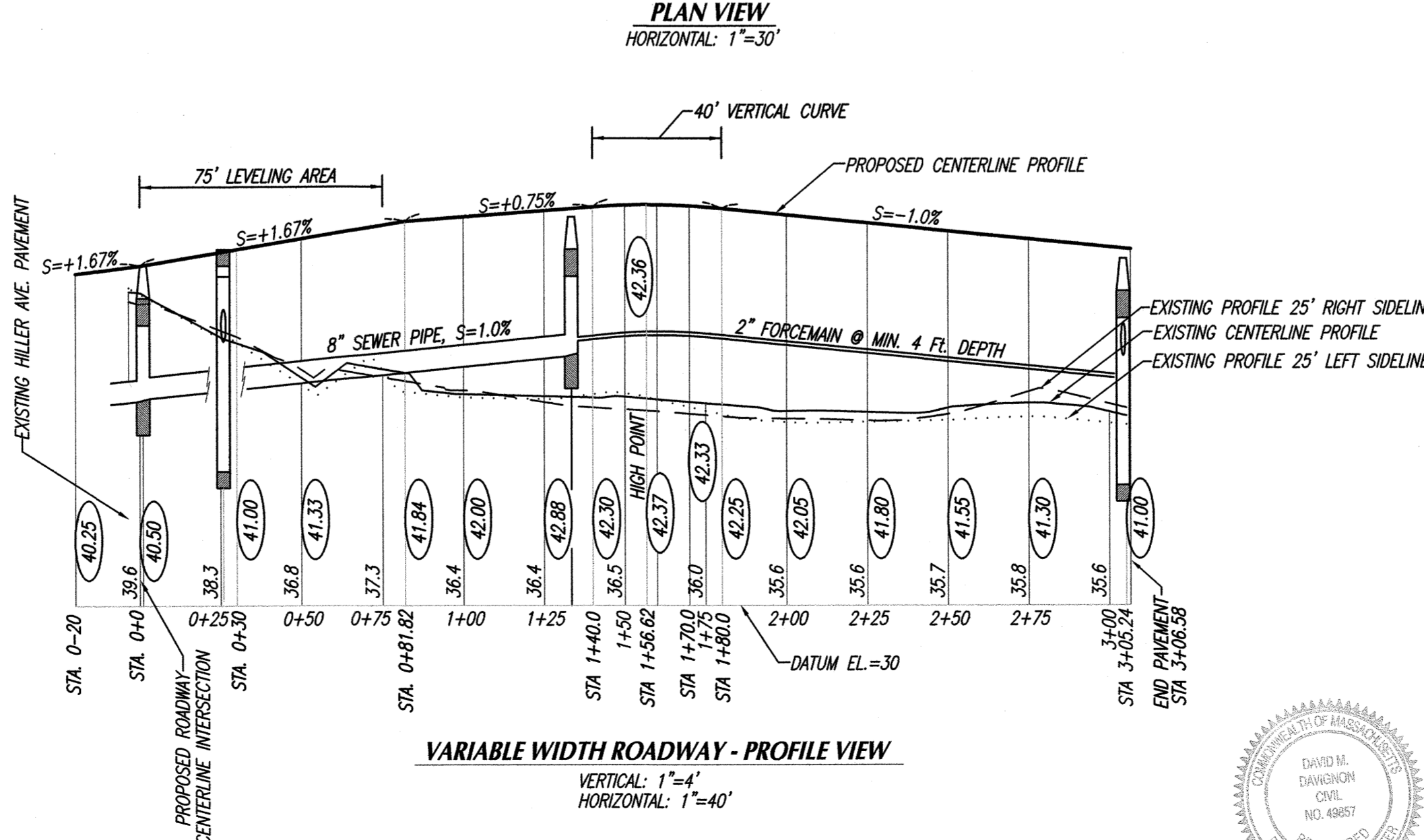
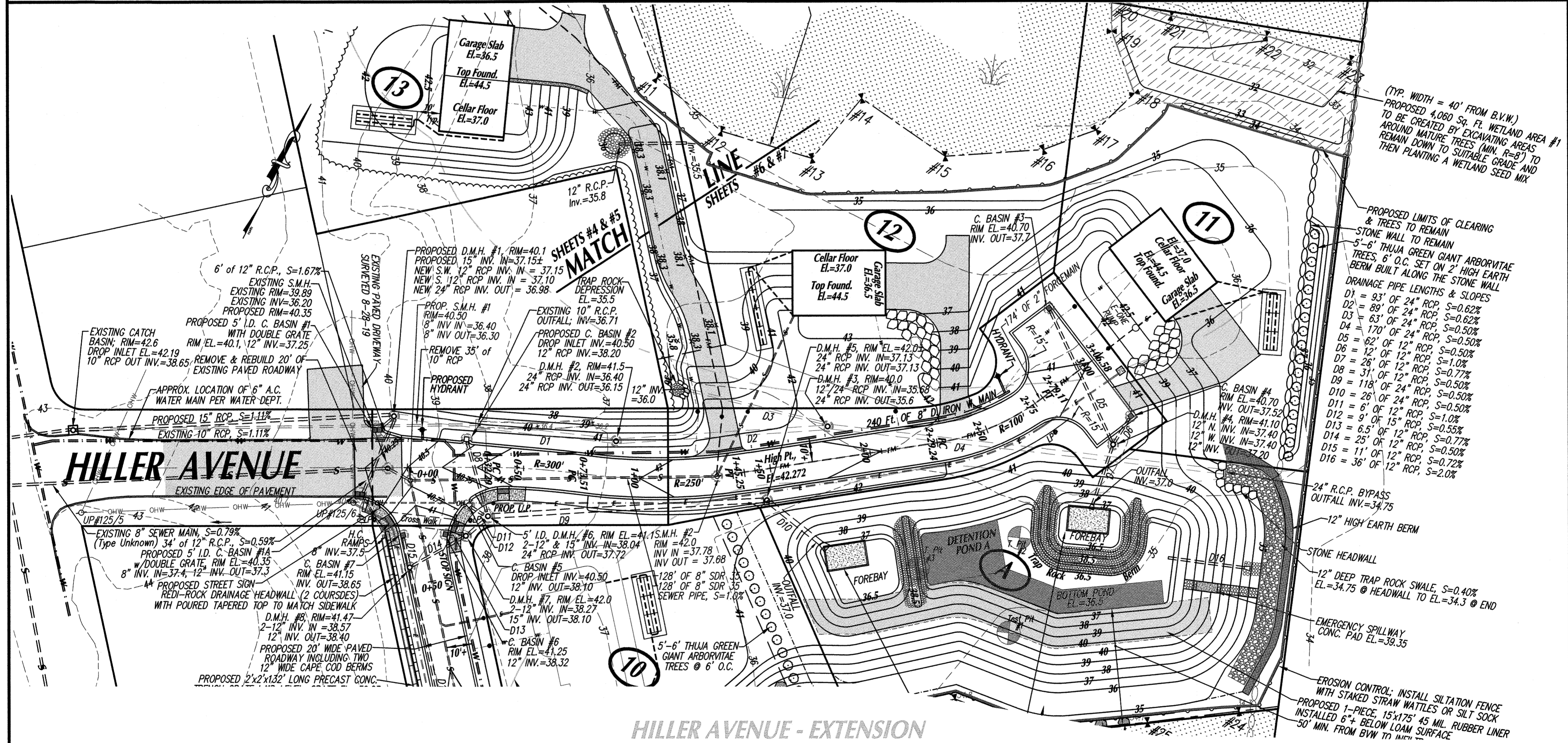
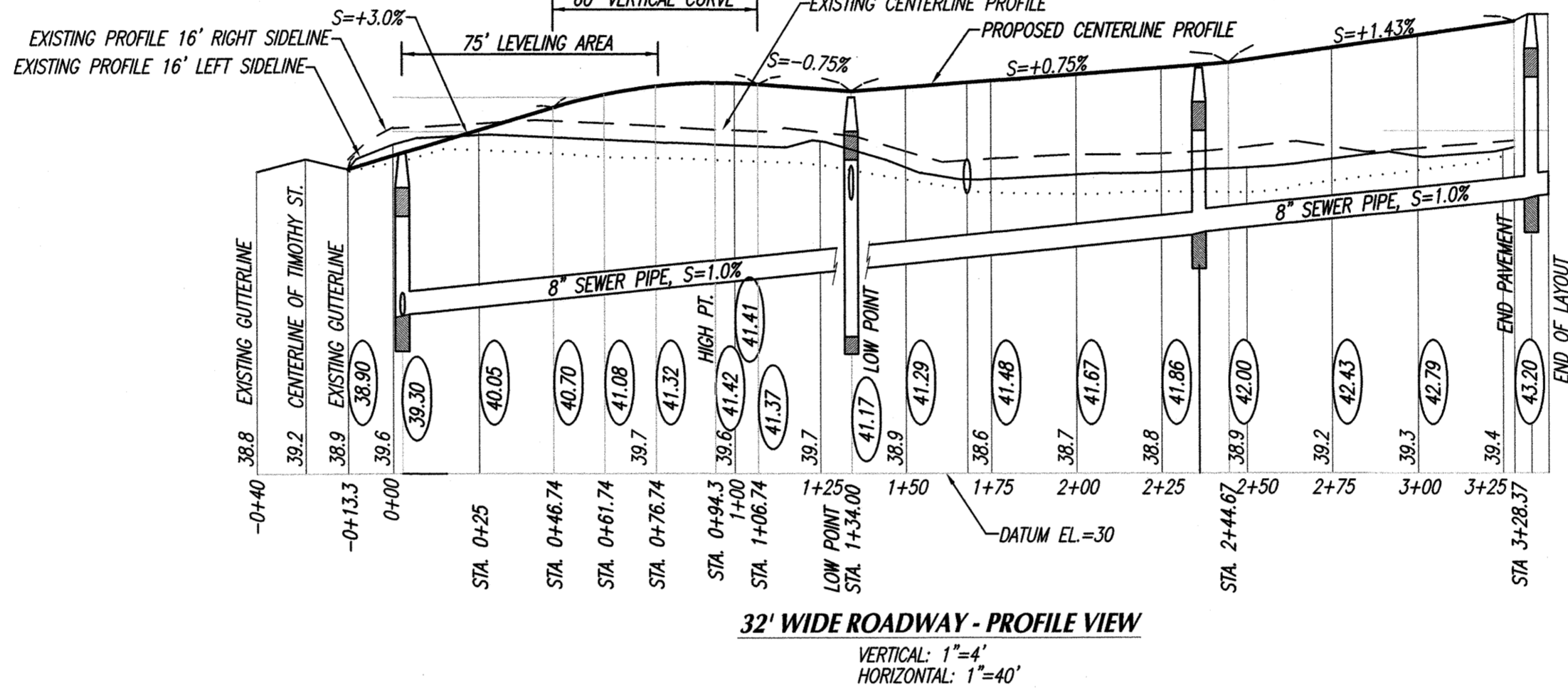
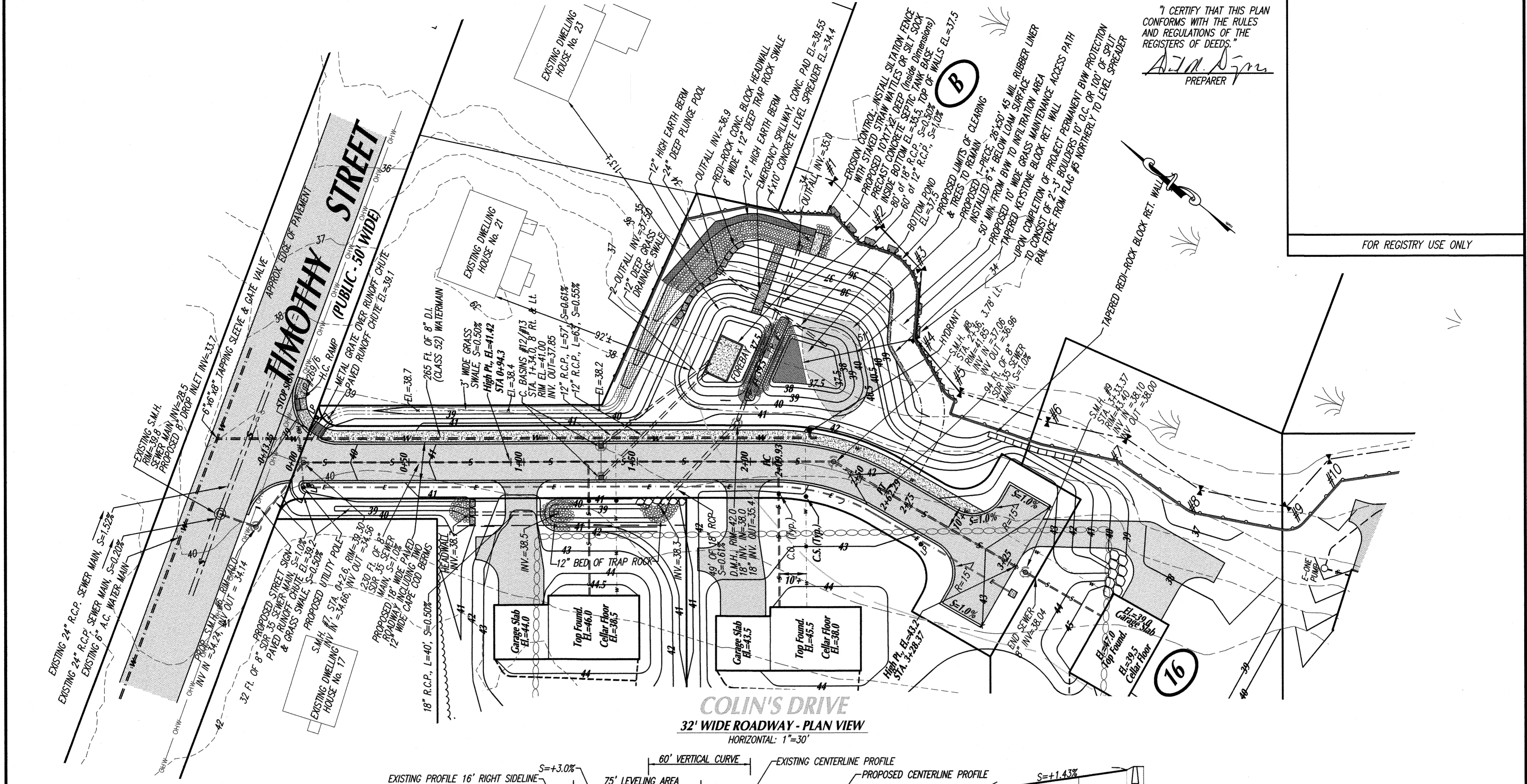


A. M. Roderiques 1-13-21

I CERTIFY THAT THIS PLAN CONFORMS WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS.

[Signature]
PREPARED

FOR REGISTRY USE ONLY



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"DEFINITIVE SUBDIVISION PLAN"
OF DEVELOPMENT TO BE KNOWN AS
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OF
HILLER AVENUE AND TIMOTHY STREET
IN
FAIRHAVEN, MA
PREPARED FOR
ROBERT RODRIQUES

SHEET 8 OF 11 SHEETS
"PROPOSED ROAD PROFILE PLAN - NORTH"

SCALE: AS NOTED DATE: NOVEMBER 8, 2018
0 20 40 80 120

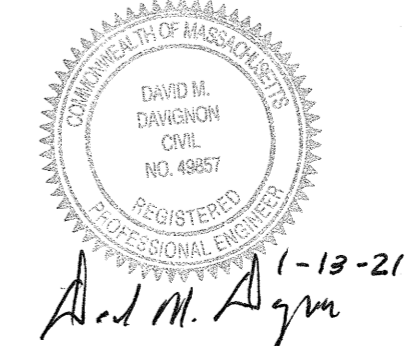
SCHNEIDER, DAVIGNON & LEONE, INC.
PROFESSIONAL CIVIL ENGINEERS & LAND SURVEYORS
1 COUNTY RD, P.O. BOX 480, MATTAPOISETT, MA 02739
1-508-758-7866

Drawn By: D.M.D. Check By: N.D.S. Job No. 3072

FAIRHAVEN PLANNING BOARD
APPROVED UNDER SUBDIVISION CONTROL LAW

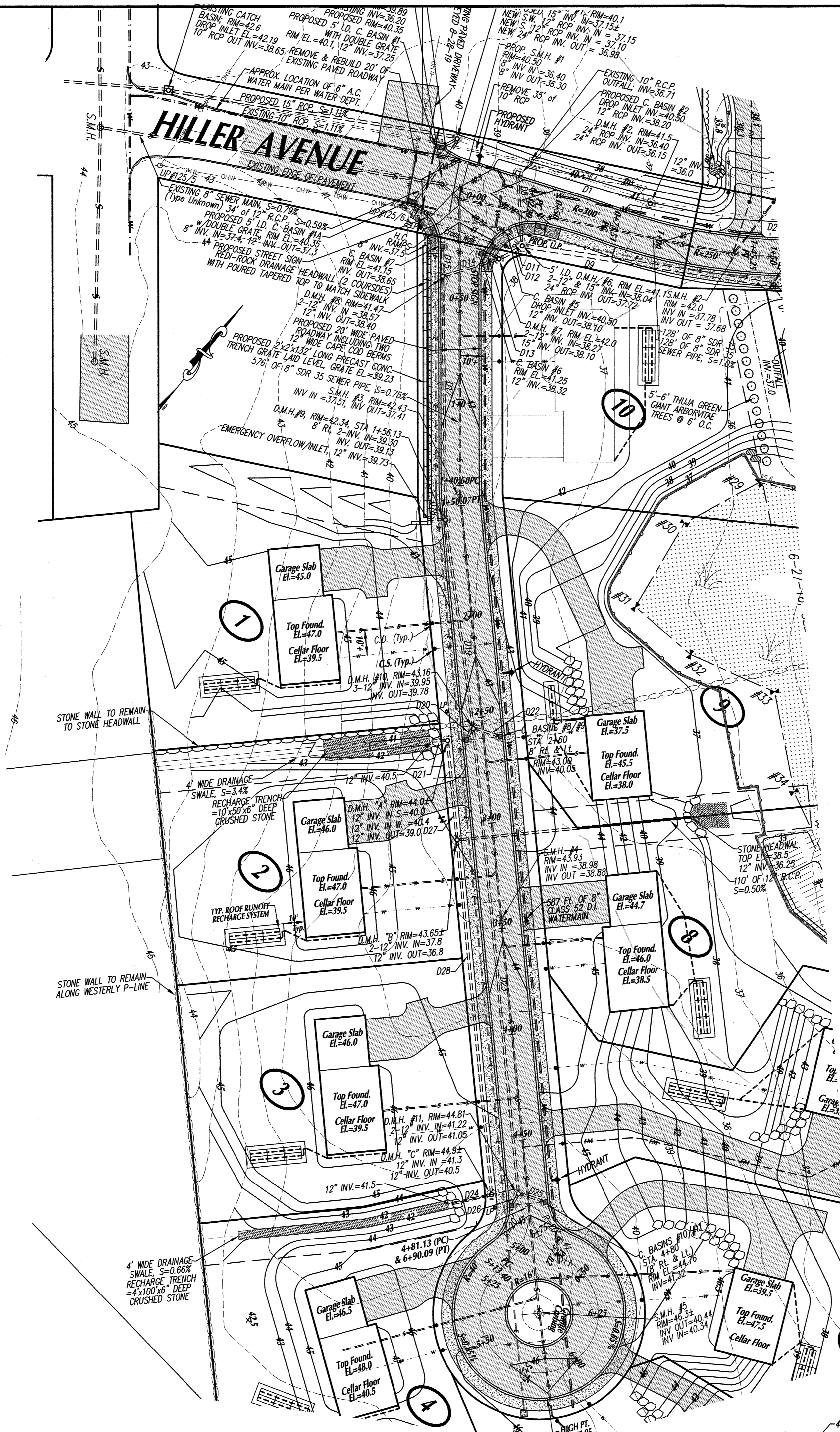
DATE APPROVED: _____
DATE SIGNED: _____

"THE ABOVE ENDORSEMENT IS NOT A DETERMINATION AS TO CONFORMANCE WITH ZONING REGULATIONS OR A DETERMINATION THAT THE LOT IS BUILDABLE."



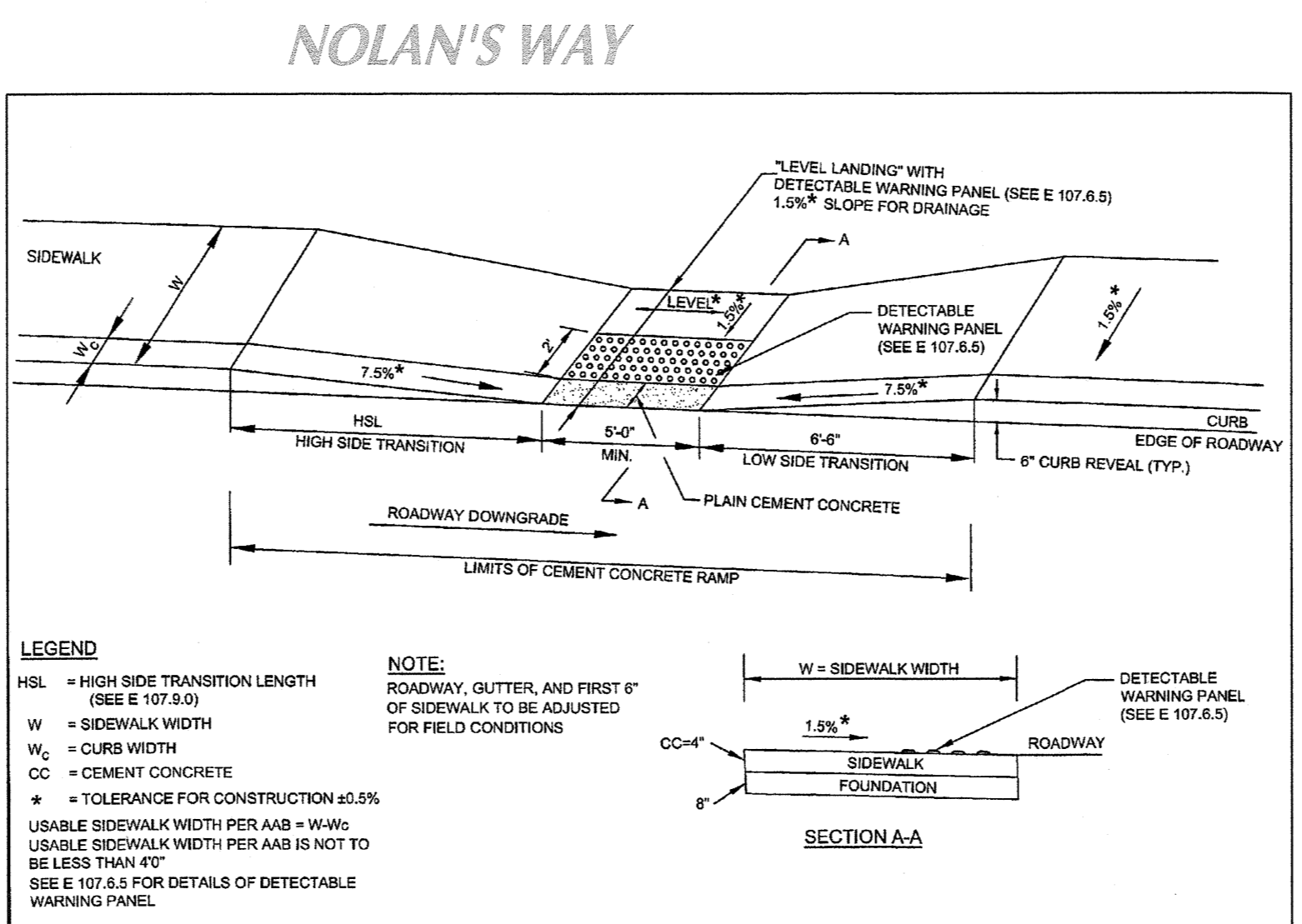
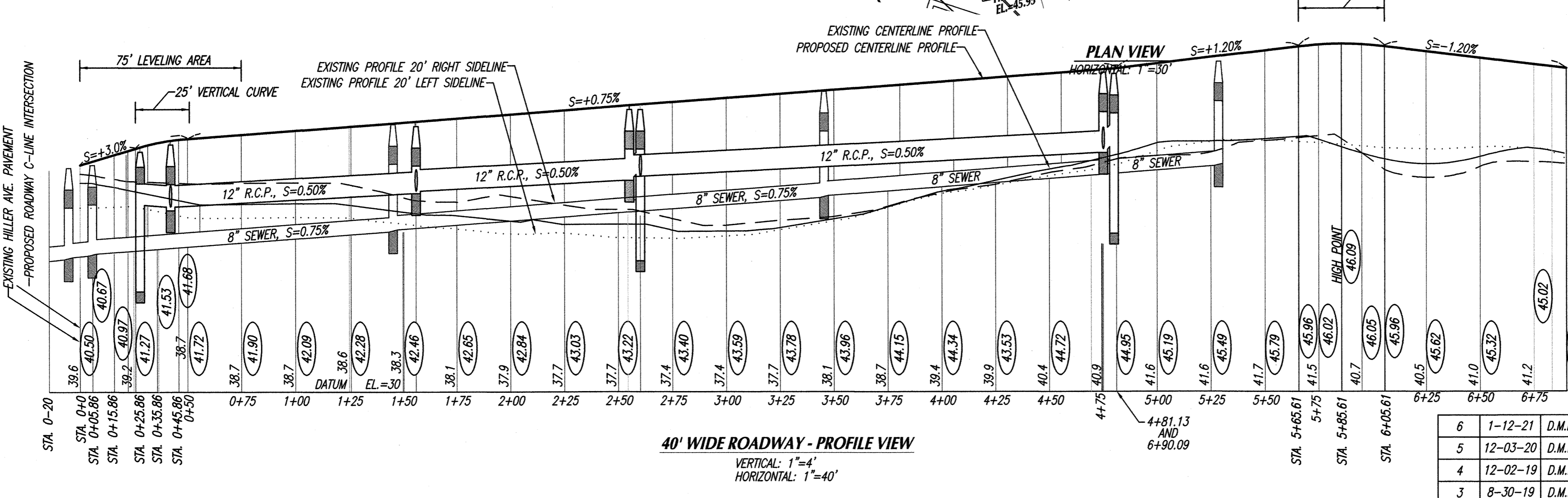
I CERTIFY THAT THIS PLAN CONFORMS WITH THE RULES AND REGULATIONS OF THE REGISTER OF DEEDS.
A. M. Aigner
 PREPARER

FOR REGISTRY USE ONLY



Drainage Pipe Lengths & Slopes

D11	= 5' of 12" RCP, S=1.0%
D12	= 10' of 12" RCP, S=0.50%
D13	= 6.5' of 12" RCP, S=0.77%
D14	= 25' of 12" RCP, S=0.50%
D15	= 11' of 12" RCP, S=0.72%
D16	= 36' of 12" RCP, S=3.38%
D17	= 112' of 12" RCP, S=0.50%
D18	= 7' of 12" RCP, S=1.42%
D19	= 96' of 12" RCP, S=0.50%
D20	= 4' of 12" RCP, S=2.5%
D21	= 6' of 12" RCP, S=1.67%
D22	= 10' of 12" RCP, S=1.0%
D23	= 217' of 12" RCP, S=0.50%
D24	= 18' of 12" RCP, S=1.11%
D25	= 10' of 12" RCP, S=1.0%
D26	= 4' of 12" RCP, S=2.5%
D27	= 44' of 12" RCP, S=2.72%
D28	= 165' of 12" RCP, S=1.63%



LEGEND
 HSL = HIGH SIDE TRANSITION LENGTH (SEE E 107.6.5)
 W = SIDEWALK WIDTH
 Wc = CURB WIDTH
 CC = CEMENT CONCRETE
 * = TOLERANCE FOR CONSTRUCTION ±0.5%
 † = USABLE SIDEWALK WIDTH PER AAS + Ww/2
 ‡ = USABLE SIDEWALK WIDTH PER AAS IS NOT TO BE LESS THAN 4'
 SEE E 107.6.8 FOR DETAILS OF DETECTABLE WARNING PANEL

NOTE:
 ROADWAY, GUTTER, AND FIRST 6" OF SIDEWALK TO BE ADJUSTED FOR FIELD CONDITIONS

Rev. #	DATE	BY	DESCRIPTION
6	1-12-21	D.M.D.	ADD WETLAND CREATION AREAS #1 & #2
5	12-03-20	D.M.D.	PER CON COM REVIEW - ADJUST NO ACTIVITY ZONE
4	12-02-19	D.M.D.	PEER REVIEW
3	8-30-19	D.M.D.	PEER REVIEW
2	5-17-19	D.M.D.	ADD ROAD PROFILES, CONSTRUCTION DETAILS CHANGE COMPANY NAME, PRELIMINARY TO DEFINITIVE
1	4-11-19	D.M.D.	REVISE GRADING & OMIT WAIVERS

"DEFINITIVE SUBDIVISION PLAN"
 OF DEVELOPMENT TO BE KNOWN AS
"SCONTICUT NECK WOODS"
 OFF
HILLER AVENUE AND TIMOTHY STREET
 IN
FAIRHAVEN, MA
 PREPARED FOR
ROBERT RODRIGUES

SHEET 9 OF 11 SHEETS
"PROPOSED ROAD PROFILE PLAN - NORTH"

SCALE: AS NOTED DATE: NOVEMBER 8, 2018
 0 20 40 80 120

SCHNEIDER, DAVIGNON & LEONE, INC.
 PROFESSIONAL CIVIL ENGINEERS & LAND SURVEYORS
 1 COUNTY RD. P.O. BOX 480, MATTAPOISETT, MA 02739
 1-508-758-7866

Drawn By: D.M.D. Check By: N.D.S. Job No. 3072

FAIRHAVEN PLANNING BOARD
 APPROVED UNDER SUBDIVISION CONTROL LAW

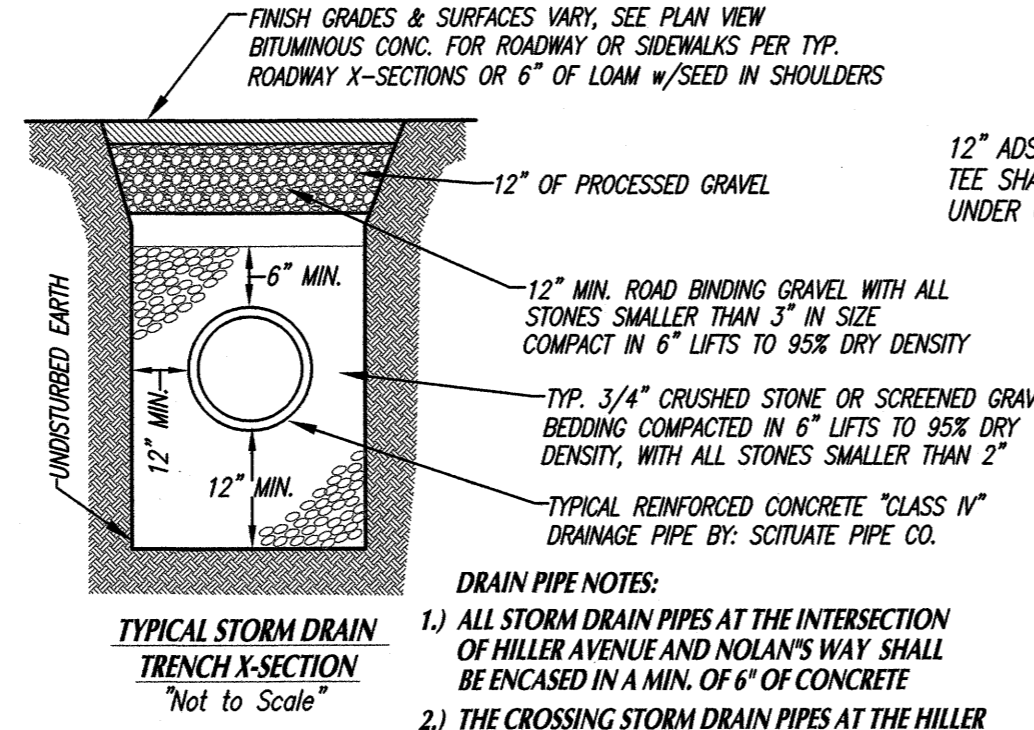
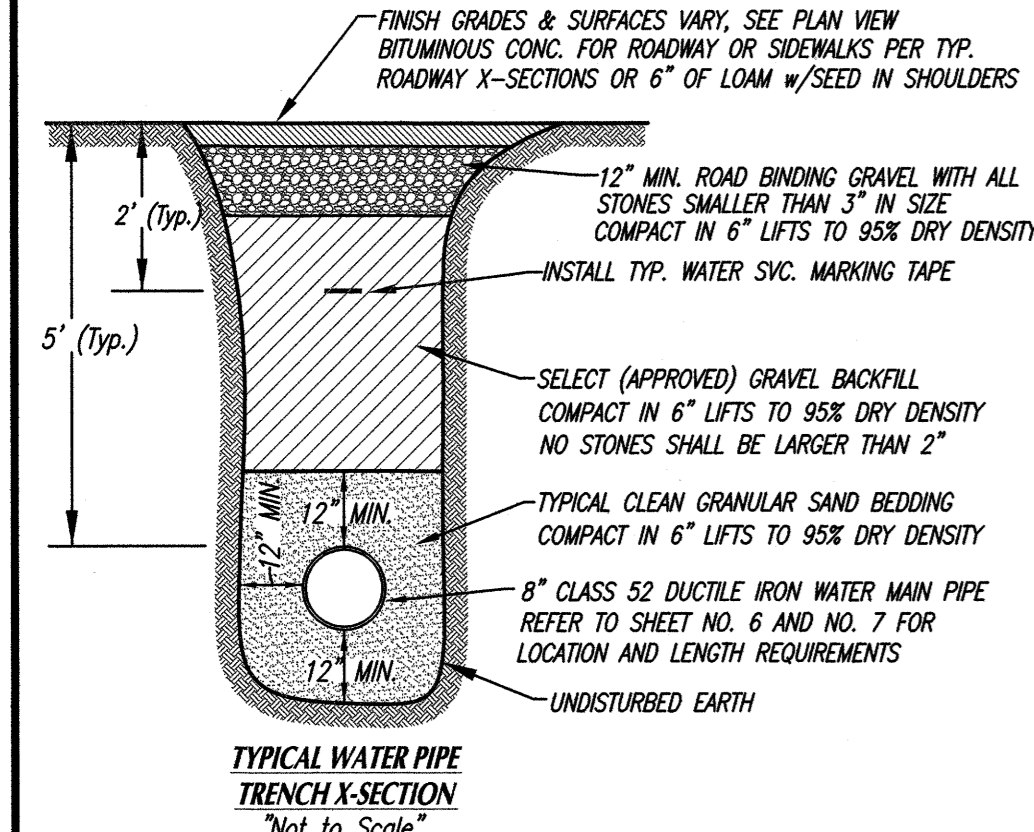
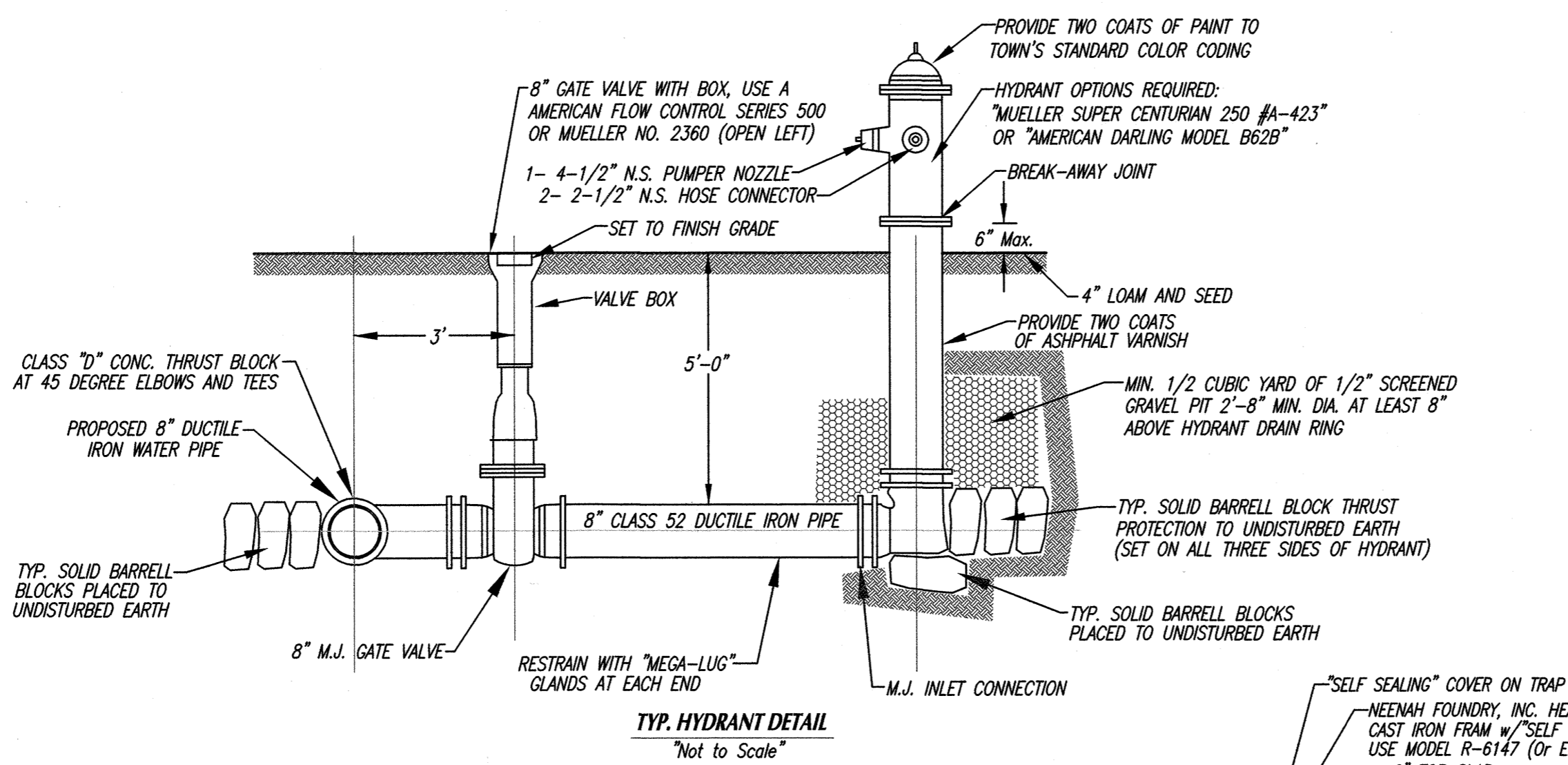
DATE APPROVED: _____
 DATE SIGNED: _____

THE ABOVE ENDORSEMENT IS NOT A DETERMINATION AS TO CONFORMANCE WITH ZONING REGULATIONS OR A DETERMINATION THAT THE LOT IS BUILDABLE.

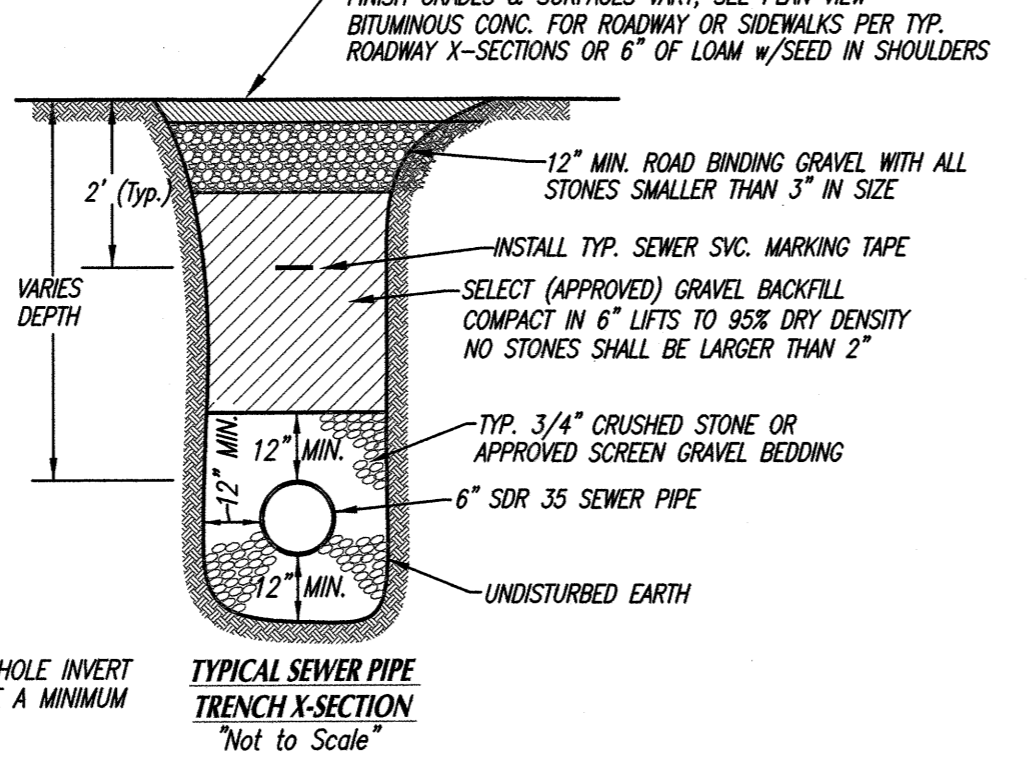
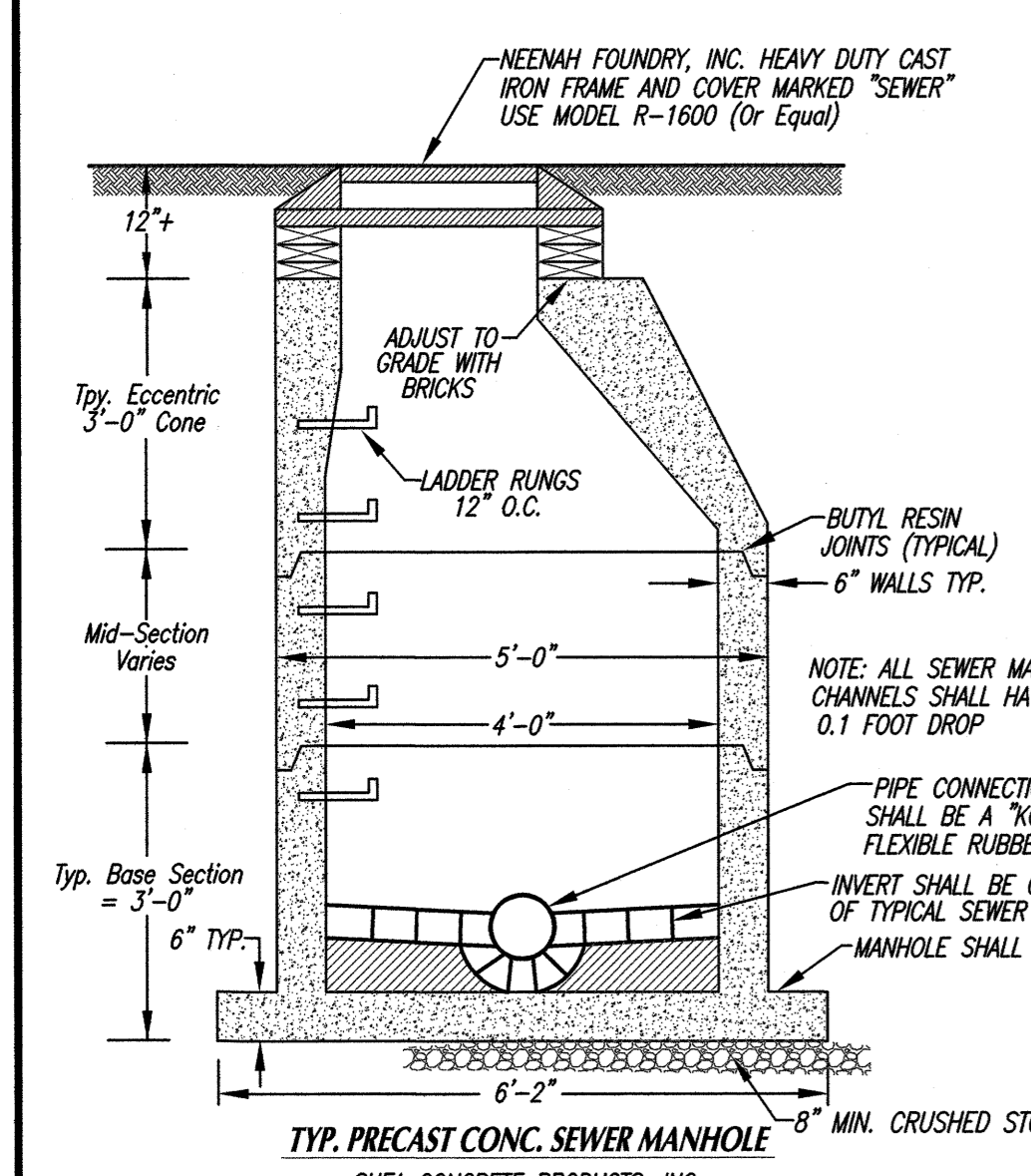
FOR REGISTRY USE ONLY

I CERTIFY THAT THIS PLAN CONFORMS WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS.

A.M. Roderiques
PREPARER

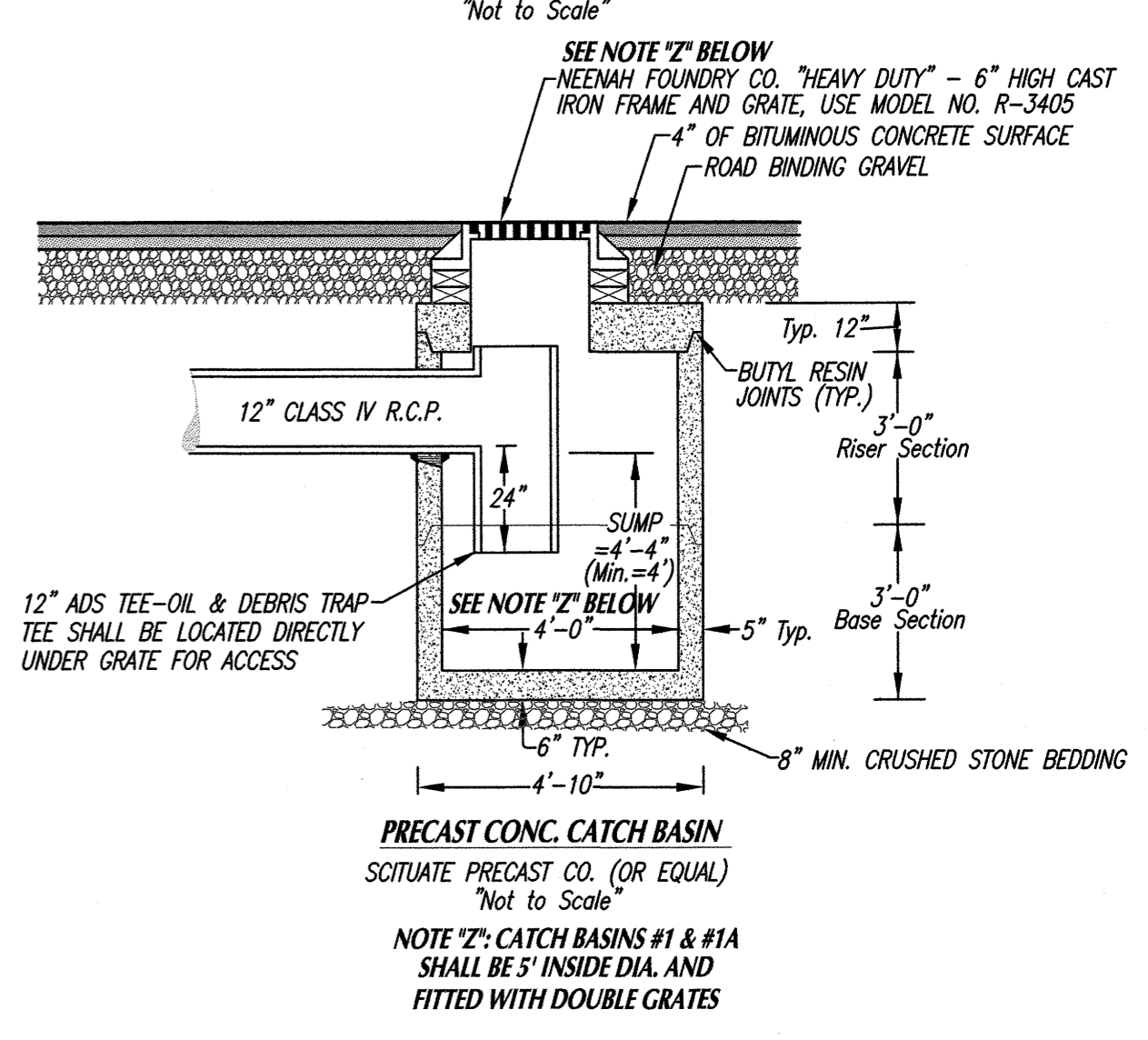
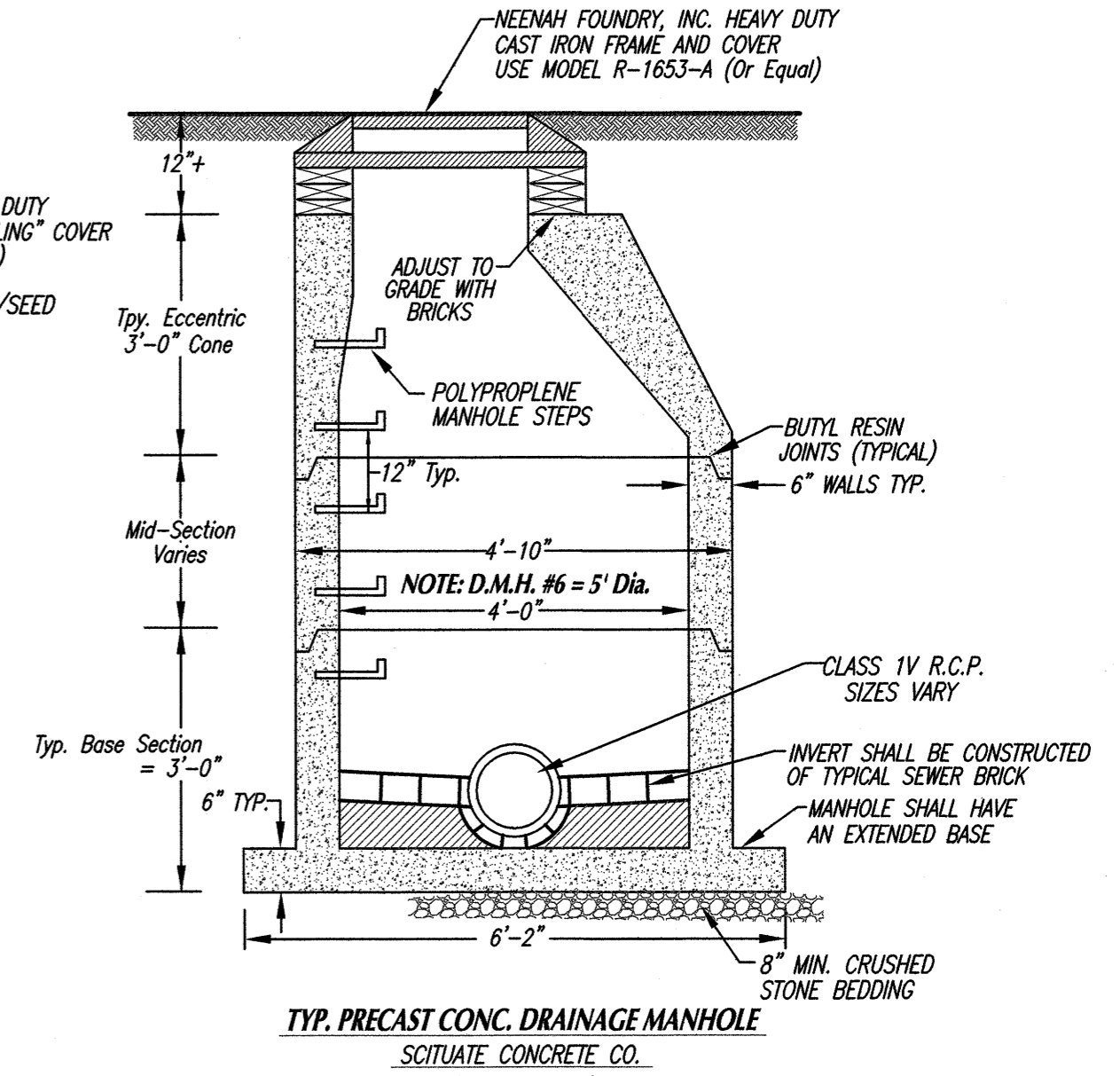
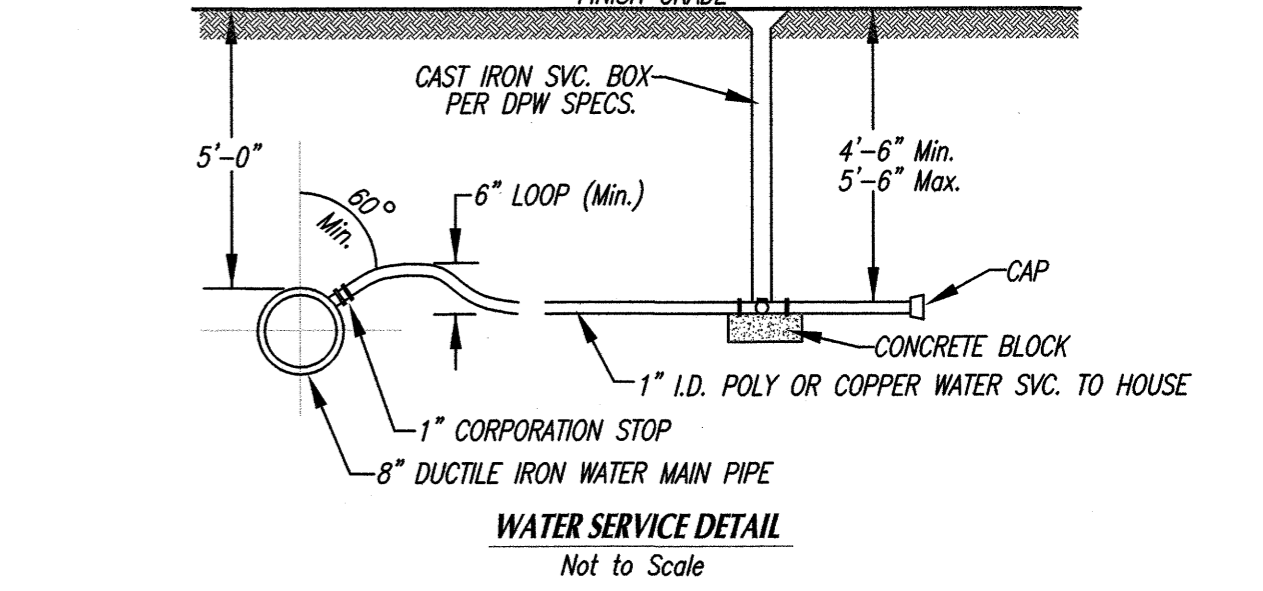
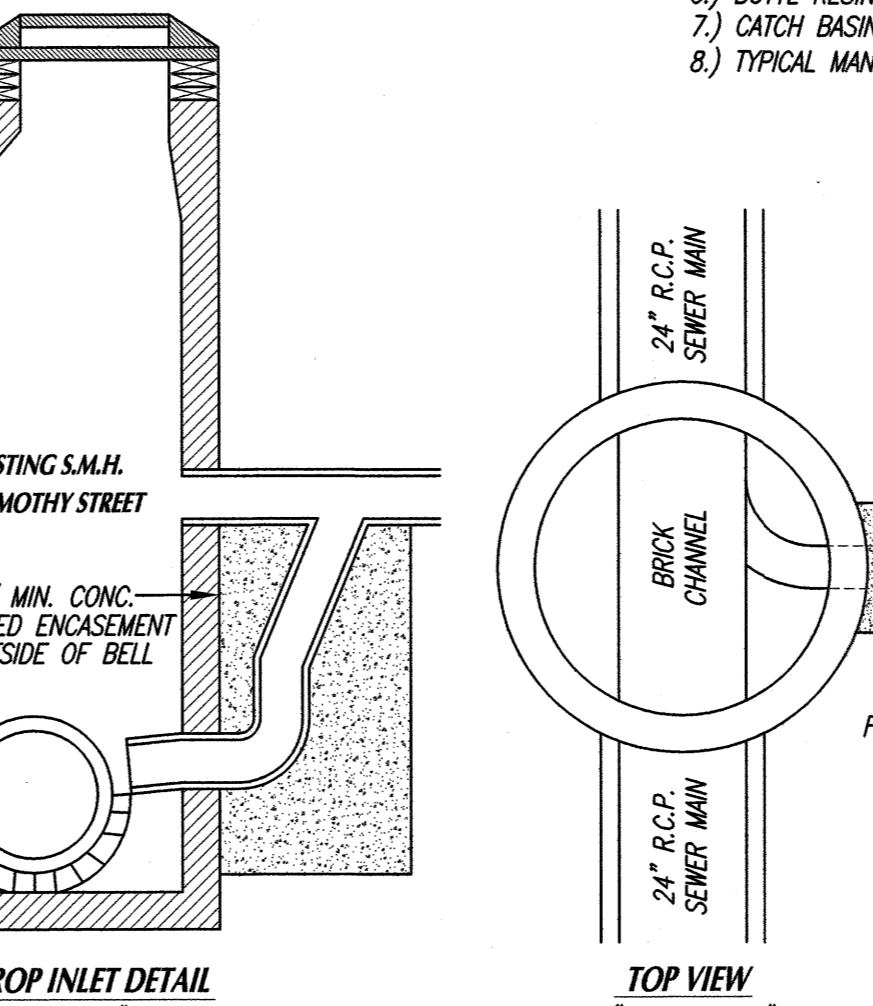
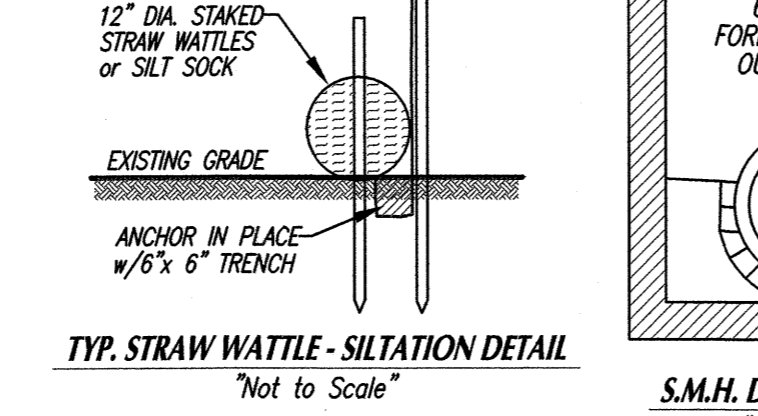
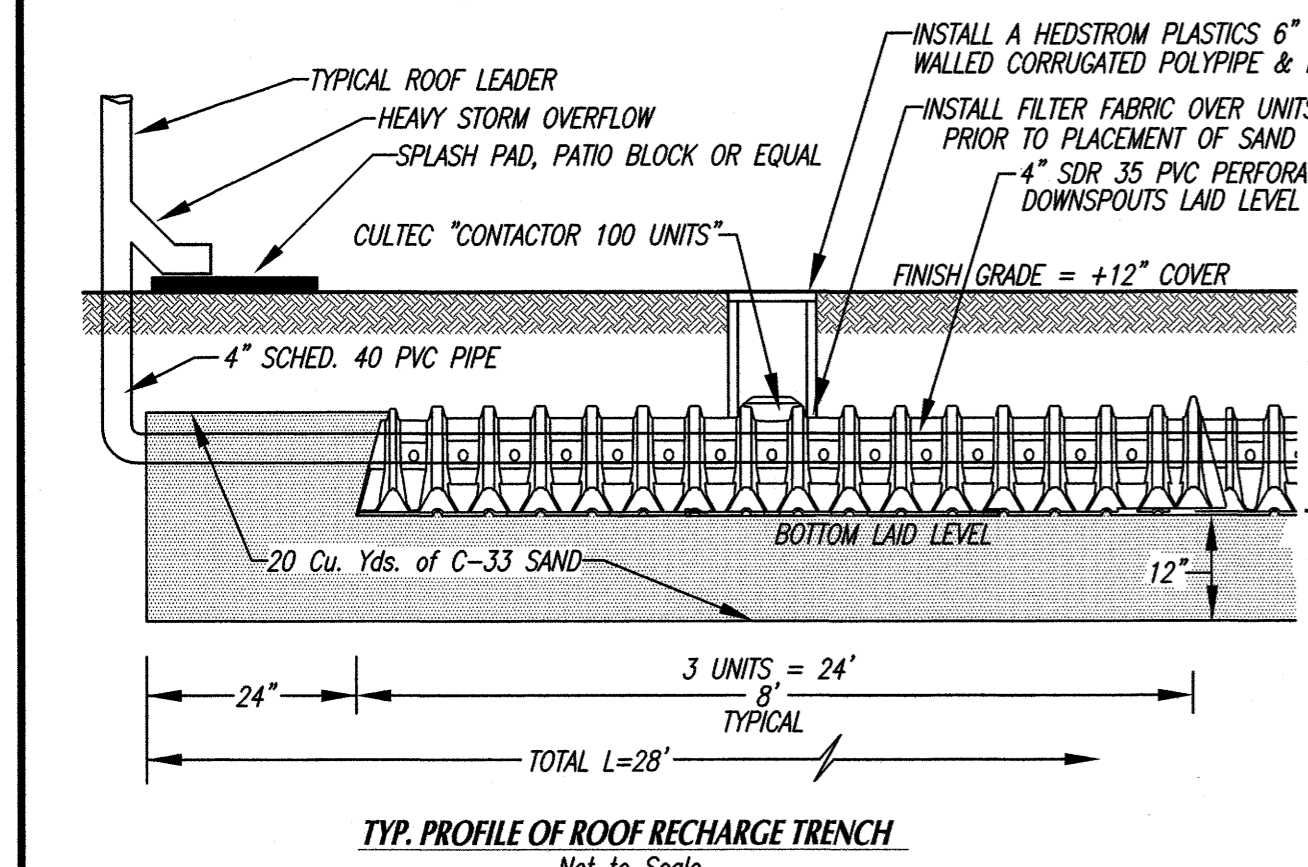
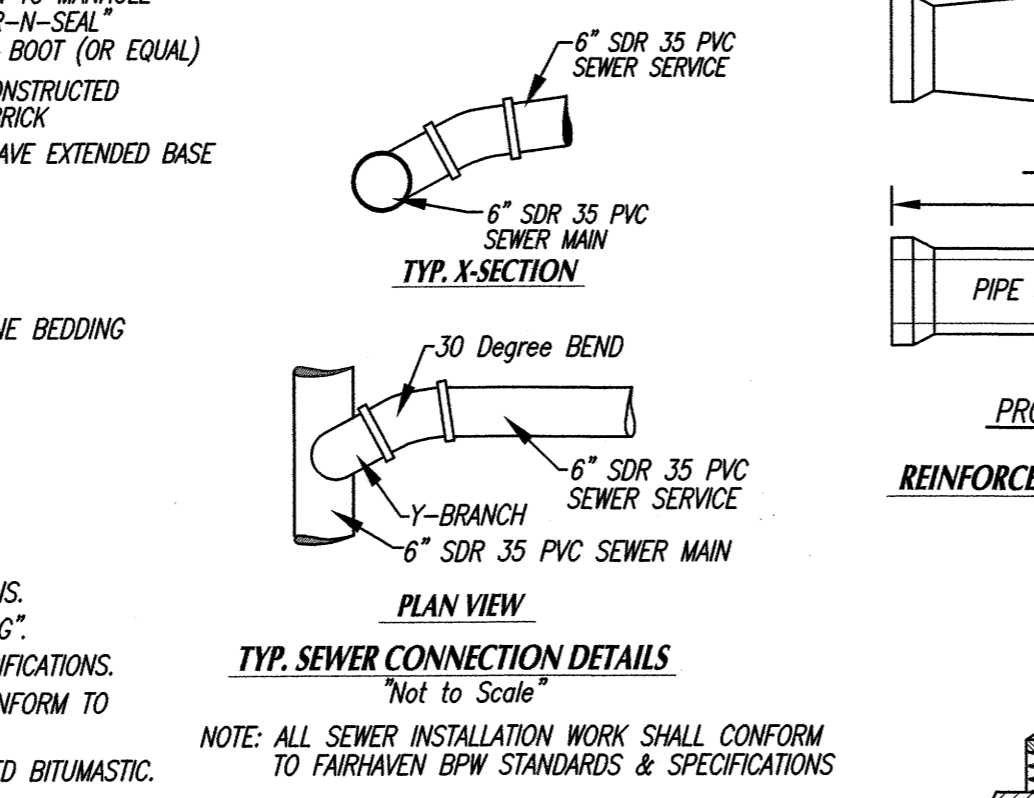


NOTE: ALL WATER PIPE CONNECTIONS & INSTALLATION WORK SHALL CONFORM TO FAIRHAVEN BPW STANDARDS & SPECIFICATIONS



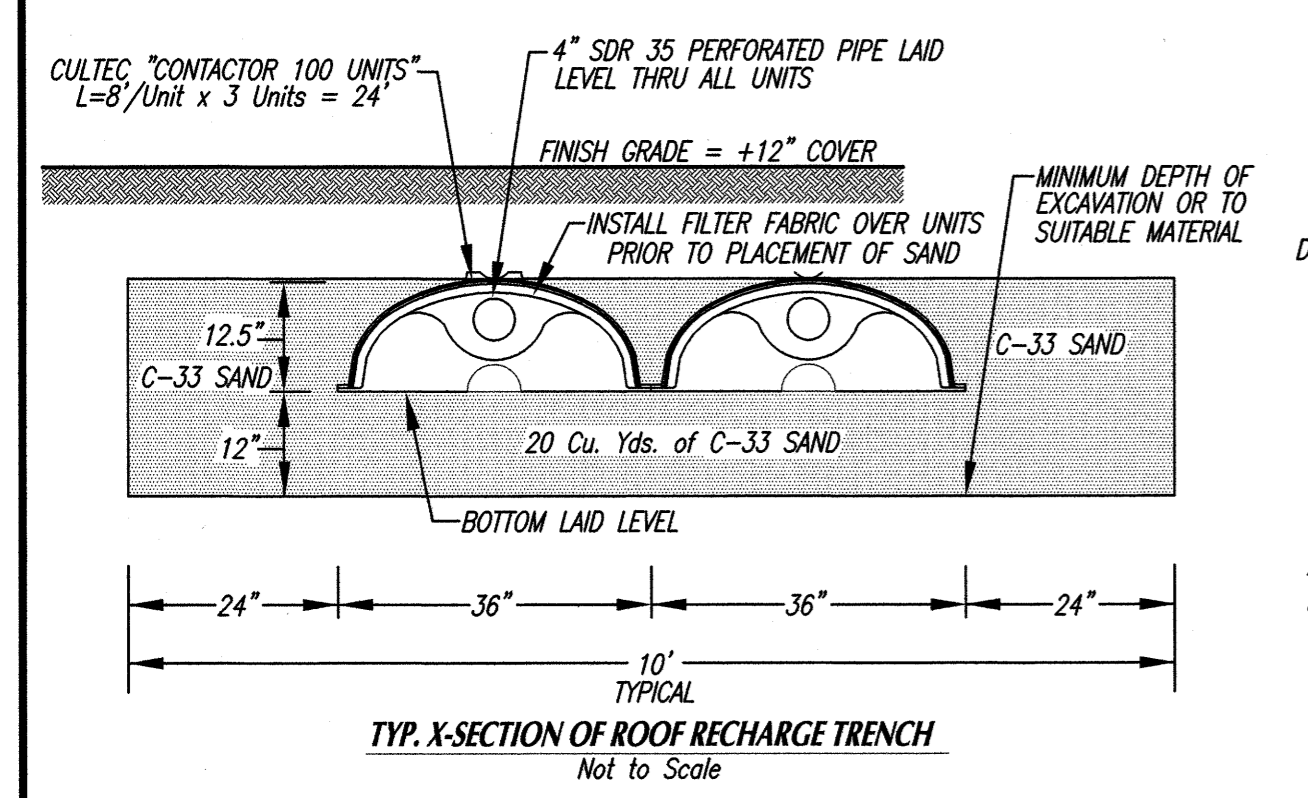
SEWER MANHOLE CONSTRUCTION NOTES:

- 1.) CONCRETE SHALL BE 4,000 LBS. AT 28 DAYS
- 2.) REINFORCED STEEL SHALL CONFORM TO LATEST ASTM A-185 SPECIFICATIONS.
- 3.) MANHOLES SHALL BE CAPABLE OF WITHSTANDING "H-20 WHEEL LOADING".
- 4.) BUTYL RESIN SECTION JOINT SHALL CONFORM TO LATEST ASTM C443 SPECIFICATIONS.
- 5.) STEEL REINFORCED COPOLYMER POLYPROPYLENE PLASTIC STEPS SHALL CONFORM TO LATEST ASTM C478 SPECIFICATIONS.
- 6.) MANHOLE EXTERIORS SHALL BE COATED WITH 2 COATS OF FACTORY APPLIED BITUMASTIC.



PRECAST CONCRETE STRUCTURES NOTES:

- 1.) BRICKS SHALL CONFORM TO ASTM C-32. GRADE MA. RADIAL CONCRETE BLOCKS SHALL BE NOT LESS THAN 8" IN LENGTH AND OF SUCH SHAPE THAT THE JOINTS CAN BE EFFECTIVELY SEALED AND BONDED WITH MORTAR. THEY SHALL CONFORM TO ASTM C-139. PRECAST RINGS SHALL CONFORM TO ASTM C-14.
- 2.) ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
- 3.) REINFORCING STEEL SHALL CONFORM TO ASTM A-305 FOR BAR REINFORCEMENT AND ASTM A-185 FOR WIRE MESH.
- 4.) MORTAR FOR MASONRY WORK AND PIPE JOINTS SHALL CONSIST OF ONE PART PORTLAND CEMENT TO TWO PARTS SAND. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150. TYPE II SAND SHALL CONFORM TO ASTM C-144. THE MORTAR SHALL BE USED WITHIN THIRTY (30) MINUTES FROM THE TIME THE INGREDIENTS ARE MIXED WITH WATER. THE WATER SHALL BE CLEAN AND FREE FROM IMPURITIES.
- 5.) ALL STRUCTURES SHALL BE CAPABLE OF WITHSTANDING "H-20 WHEEL LOADING".
- 6.) BUTYL RESIN SECTION JOINT SHALL CONFORM TO LATEST ASTM C443 SPECIFICATIONS.
- 7.) CATCH BASIN EXTERIOR SHALL BE COATED WITH 2 COATS OF FACTORY APPLIED BITUMASTIC.
- 8.) TYPICAL MANHOLE STEPS ARE PROHIBITED IN CATCH BASINS.



POND A - TEST PIT DATA

DATE OF SOIL EVALUATIONS: DECEMBER 11, 2009
SOIL EVALUATOR: N. DOUGLAS SCHNEIDER, P.E., P.L.S., C.S.E.
ENGINEERING FIRM: N. DOUGLAS SCHNEIDER & ASSOCIATES, INC.

Depth	TEST PIT #1	Elev.	TEST PIT #2	Elev.	TEST PIT #3	Elev.
0	HORIZON A LOAM 10 YR 2/2	34.9	HORIZON A LOAM 10 YR 2/2	35.4	HORIZON A LOAM 10 YR 2/2	35.5
10	Soil Mottling	34.1	Soil Mottling	34.6	Soil Mottling	34.7
12	HORIZON B SANDY LOAM 2.5 Y 5/4	33.9	HORIZON B SANDY LOAM 2.5 Y 5/4	34.2	HORIZON B SANDY LOAM 2.5 Y 5/4	34.5
27	Weeping	32.6	Weeping	34.0	Weeping	34.0
30	HORIZON C1 FINE SANDY LOAM 2.5 Y 5/1	32.4	HORIZON C1 FINE SANDY LOAM 2.5 Y 5/1	32.9	HORIZON C1 FINE SANDY LOAM 2.5 Y 5/1	33.5
45	HORIZON C2 SAND & GRAVEL 2.5 Y 6/2	31.2	HORIZON C2 SAND & GRAVEL 2.5 Y 6/2	31.7	HORIZON C2 SAND & GRAVEL 2.5 Y 6/2	33.0
60	HORIZON C3 LOAMY SAND 2.5 Y 6/3	29.9	HORIZON C3 SAND & GRAVEL 2.5 Y 6/2	31.0	HORIZON C3 SAND & GRAVEL 2.5 Y 6/3	31.0
72	MOTTLING @ 12\"/>					

POND B - TEST PIT DATA

DATE OF SOIL EVALUATIONS: DECEMBER 11, 2009
SOIL EVALUATOR: N. DOUGLAS SCHNEIDER, P.E., P.L.S., C.S.E.
ENGINEERING FIRM: N. DOUGLAS SCHNEIDER & ASSOCIATES, INC.

Depth	TEST PIT #4	Elev.	TEST PIT #5	Elev.
0	HORIZON A LOAM 10 YR 2/2	37.7	HORIZON A LOAM 10 YR 2/2	36.7
10	Soil Mottling	36.9	Soil Mottling	35.2
18	HORIZON B SANDY LOAM 10 YR 4/6	36.9	HORIZON B SANDY LOAM 2.5 Y 5/4	34.7
27	Soil Mottling	35.5	Soil Mottling	34.7
27	HORIZON C1 LOAMY SAND 2.5 Y 6/3	35.5	HORIZON C1 FINE SANDY LOAM 5 Y 5/3 Pockets	33.7
54	Weeping	33.2	HORIZON C2 SAND & GRAVEL 2.5 Y 6/3 w/Gravel, Cobbles & Boulders	31.7
81	MOTTLING @ 27\"/>			

OPERATION & MAINTENANCE PLAN - DETENTION PONDS
SEDIMENT FOREBAY TO BE INSPECTED MONTHLY AND CLEANED FOUR TIMES PER YEAR
DETENTION POND BOTTOM TO BE INSPECTED TWICE PER YEAR
PONDS TO BE CLEANED OF ANY DEBRIS, LEAVES, PINE NEEDLES AND THE LIKE
EXAMINE THE OUTFALL PIPE & SPILLWAY FOR EVIDENCE OF CLOGGING
CLEAN OUTFALL PIPE AND SPILLWAY
REPAIR ANY AREAS OF EROSION AND REVEGETATE
NOW OR CUT ALL VEGETATION ON THE BOTTOM AND SIDESLOPES
ALL SEDIMENT DEPOSIT SHOULD BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS

OPERATION & MAINTENANCE PLAN - GRASS SWALES
GRASS SWALES SHALL BE MOWED TO KEEP GRASS HEIGHT NOT SHORTER THAN 3" - 4" AND GRASS HEIGHT SHALL NOT EXCEED 6"
CLEAN SWALES OF ANY SEDIMENT, DEBRIS, LEAVES AND THE LIKE
CLEAN PLUNGE POOLS OF ANY SEDIMENT, DEBRIS, LEAVES AND THE LIKE
CLEAN THE LEVEL SPREADER OF ANY SEDIMENT, DEBRIS, LEAVES AND THE LIKE
REPAIR ANY AREAS OF EROSION AND REVEGETATE

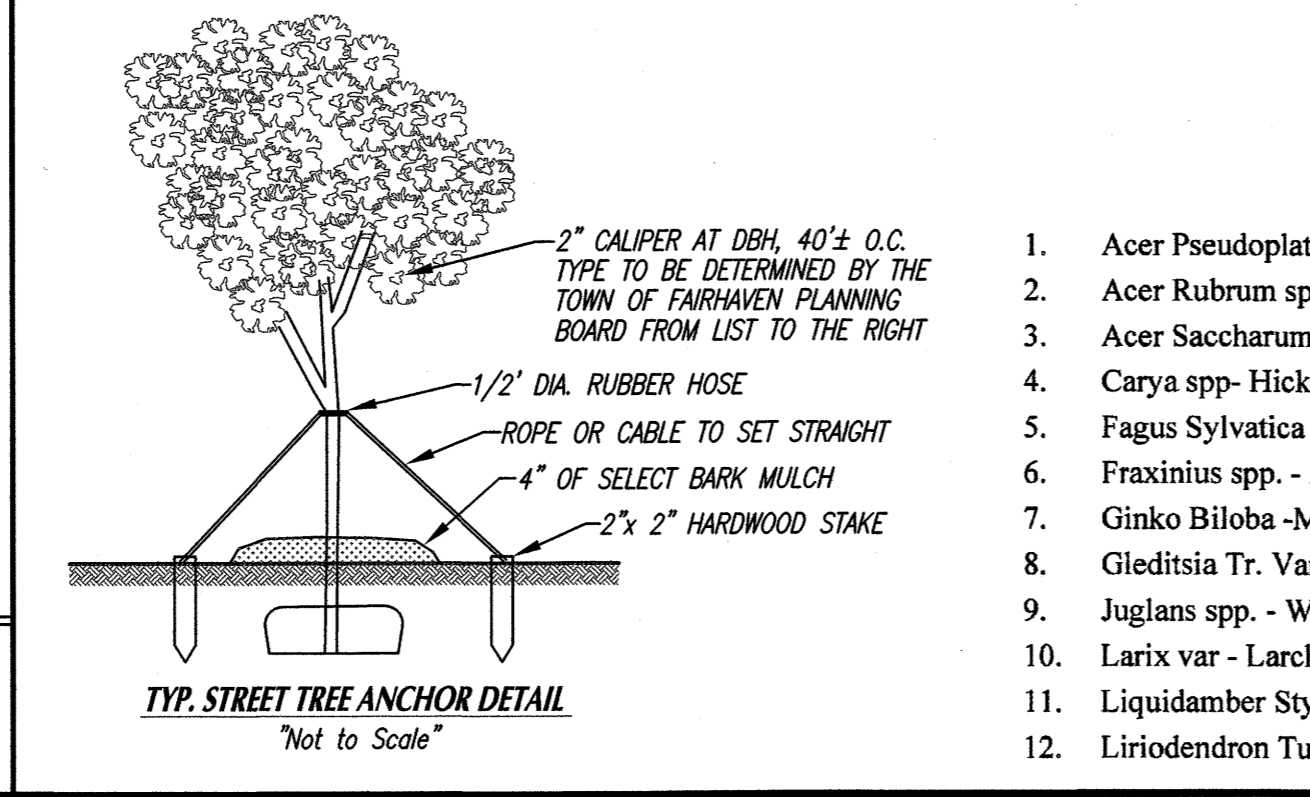
OPERATION & MAINTENANCE PLAN - CATCH BASINS & DRAINAGE MANHOLES
CATCH BASINS TO BE INSPECTED AND CLEANED FOUR TIMES PER YEAR OR DEPTH OR WHEN THE DEPTH OF DEPOSIT IS GREATER OR EQUAL TO 1/2 OF THE SUMP
EXAMINE INLET AND OUTLET OF PIPES AND SEPARATOR TEES
CLEAN STRUCTURES OF ANY DEBRIS, LEAVES, PINE NEEDLES & THE LIKE
INSPECT FOR PROPER PIPE OUTFLOW DURING HEAVY STORM EVENT MIN. ONCE/YEAR
ENGAGE A COMPANY TO CLEAN DRAINAGE PIPES AS NECESSARY

OPERATION & MAINTENANCE PLAN - RESPONSIBLE PARTY
ROBERT RODRIGUES, THE APPLICANT AND DEVELOPER WILL BE THE RESPONSIBLE PARTY TO IMPLEMENT THE O & M PLAN UNTIL SUCH TIME AS THE ROADWAYS AND ITS DRAINAGE SYSTEM BECOMES AN ACCEPTED PUBLIC WAY BY A FAIRHAVEN TOWN MEETING VOTE.

FAIRHAVEN PLANNING BOARD
APPROVED UNDER SUBDIVISION CONTROL LAW

DATE APPROVED: _____

DATE SIGNED: _____



1. Acer Pseudoplatanus - Sycamore Maple
 2. Acer Rubrum spp. - Swamp Maple Hybrids
 3. Acer Saccharum - Sugar Maple
 4. Carya spp. - Hickory
 5. Fraxinus Sylvatica - Beech var.
 6. Fagus sylvatica - Ash var.
 7. Ginkgo Biloba - Maidenhair Tree Female Only
 8. Gleditsia Tr. Var - Honeylocust var.
 9. Juglans spp. - Walnut Tree
 10. Larix var - Larch var.
 11. Liquidambar styraciflua - Sweetgum Tree
 12. Liriodendron Tulipifera - Tulip Tree
 13. Metasequoia Glyptostroboidea - Dawn Redwood
 14. Nyssa Sylvatica - Tupelo Wet Conifers Only
 15. Phellodendron Amurense - Cork Tree
 16. Platanus Acerifolia - London Plane Tree
 17. Quercus spp. - Oak Varieties
 18. Tilia spp. - Linden small leaf var. only
 19. Ulmus Americana var. - American Elm hybrids only
 20. Zelkovia Serrata var. - Japanese Zelkova
- C. Prohibited.
1. Weeping Willow
 2. All Norway Maples

"DEFINITIVE SUBDIVISION PLAN"
OF DEVELOPMENT TO BE KNOWN AS
"SCONTICUT NECK WOODS"
OFF
HILLER AVENUE AND TIMOTHY STREET
IN
FAIRHAVEN, MA
PREPARED FOR
ROBERT RODRIGUES

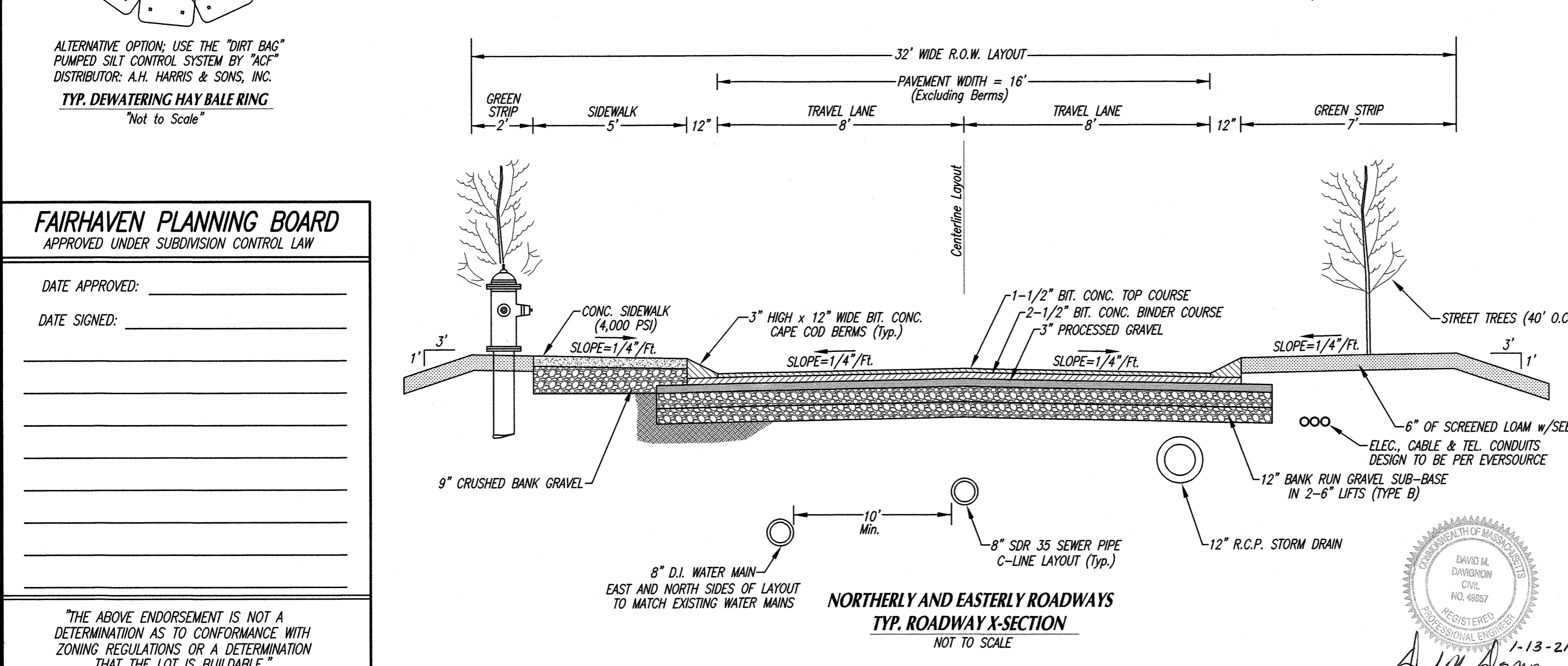
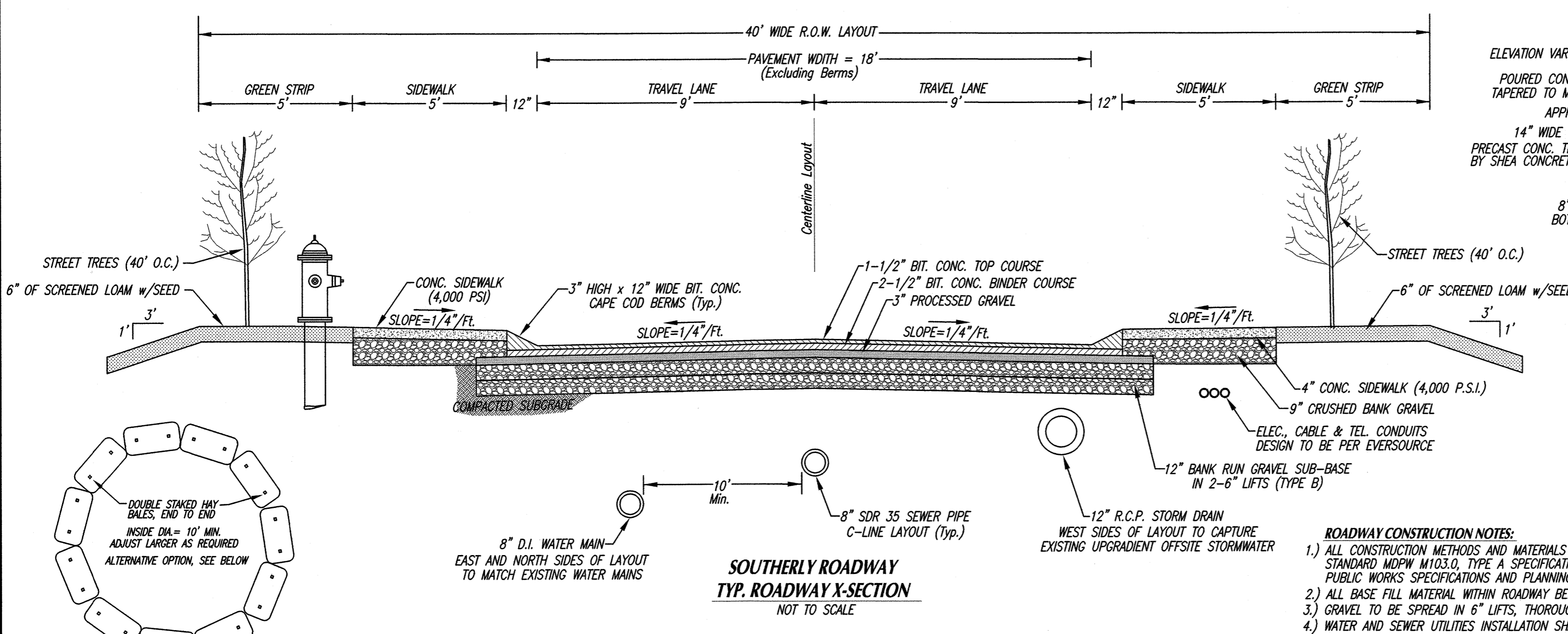
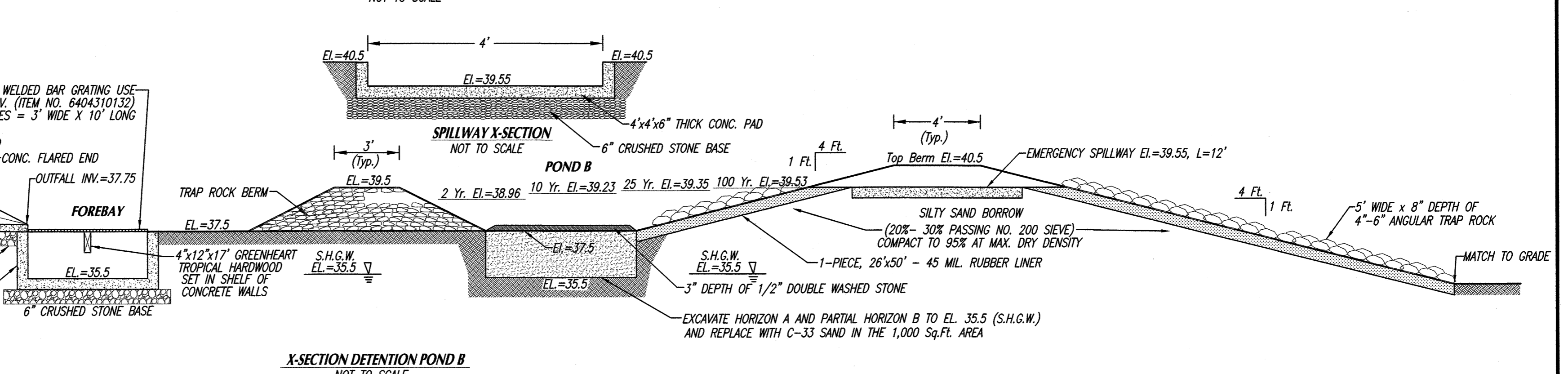
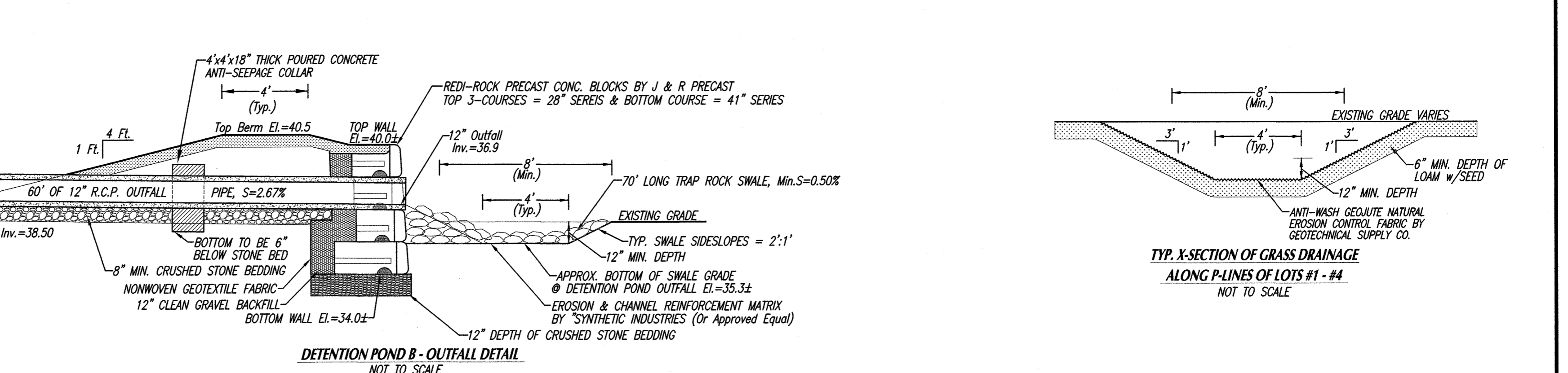
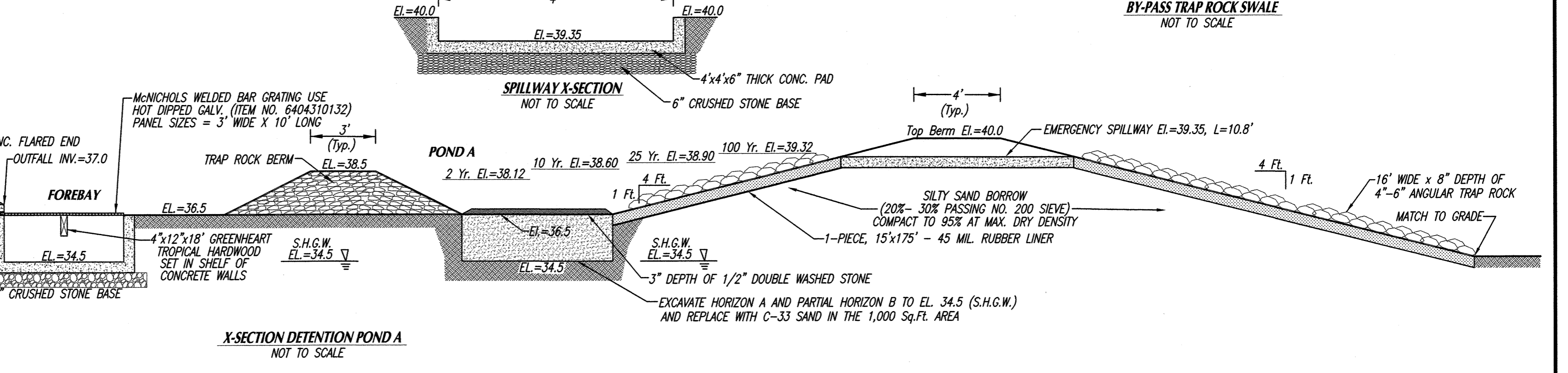
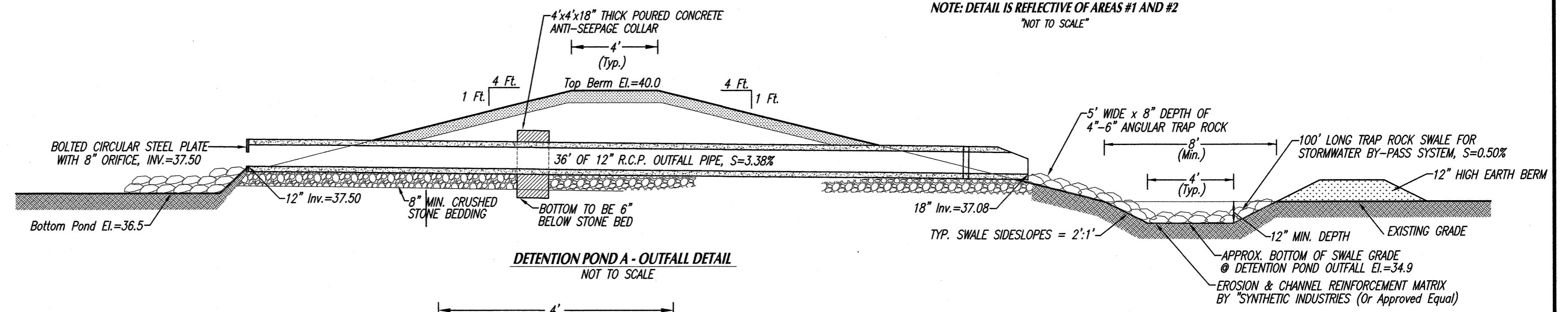
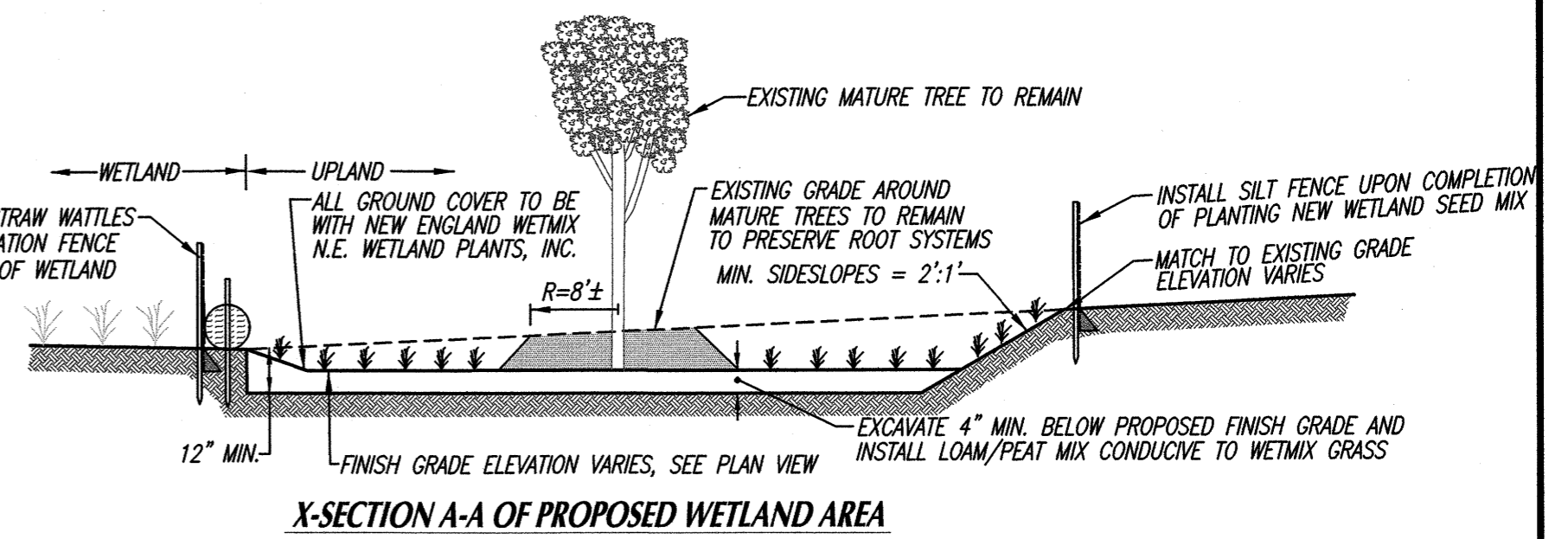
SHEET 10 OF 11 SHEETS
"CONSTRUCTION DETAILS"

SCALE: VARIES DATE: NOVEMBER 8, 2018

SCHNEIDER, DAVIGNON & LEONE, INC.
PROFESSIONAL CIVIL ENGINEERS & LAND SURVEYORS
1 COUNTY RD. P.O. BOX 480, MATTAPOISETT, MA 02739
1-508-758-7866

Rev. #	DATE	BY	DESCRIPTION
6	1-12-21	D.M.D.	ADD WETLAND CREATION AREAS #1 & #2
5	12-03-20	D.M.D.	PER CON COM REVIEW - ADJUST NO ACTIVITY ZONE
4	12-02-19	D.M.D.	PEER REVIEW
3	8-30-19	D.M.D.	PEER REVIEW
2	5-17-19	D.M.D.	DEFINITIVE SUBDIVISION
1	4-11-19	D.M.D.	REVISE GRADING, OMIT WAVERS

Drawn By: D.M.D. Check By: N.D.S. Job No. 3072

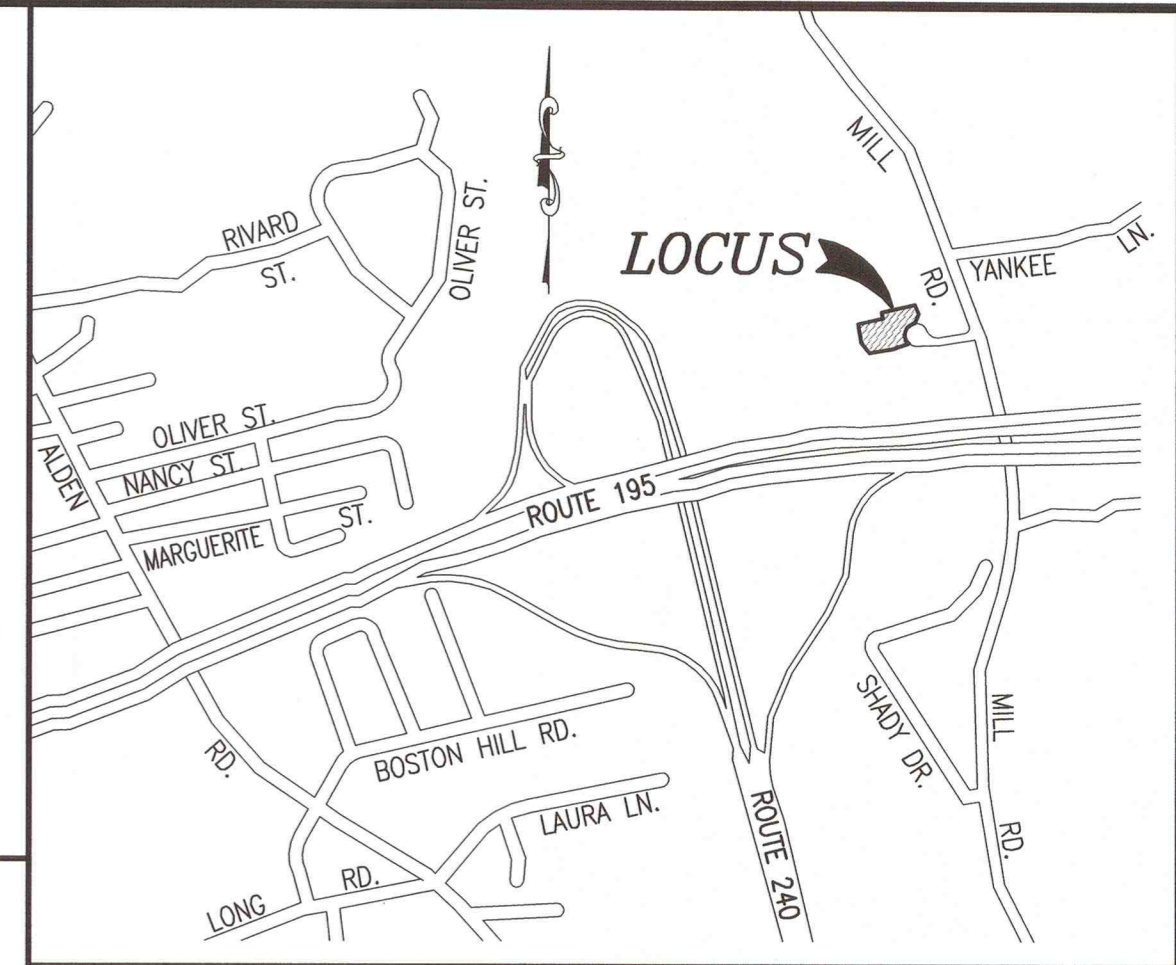
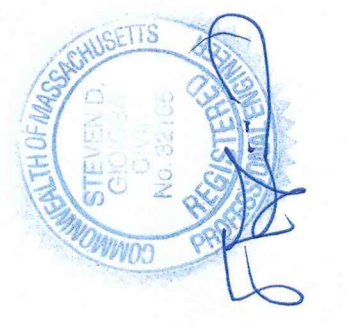


FOR REGISTRY USE ONLY
I CERTIFY THAT THIS PLAN CONFORMS WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS.
A. J. M. Agn... PREPARER

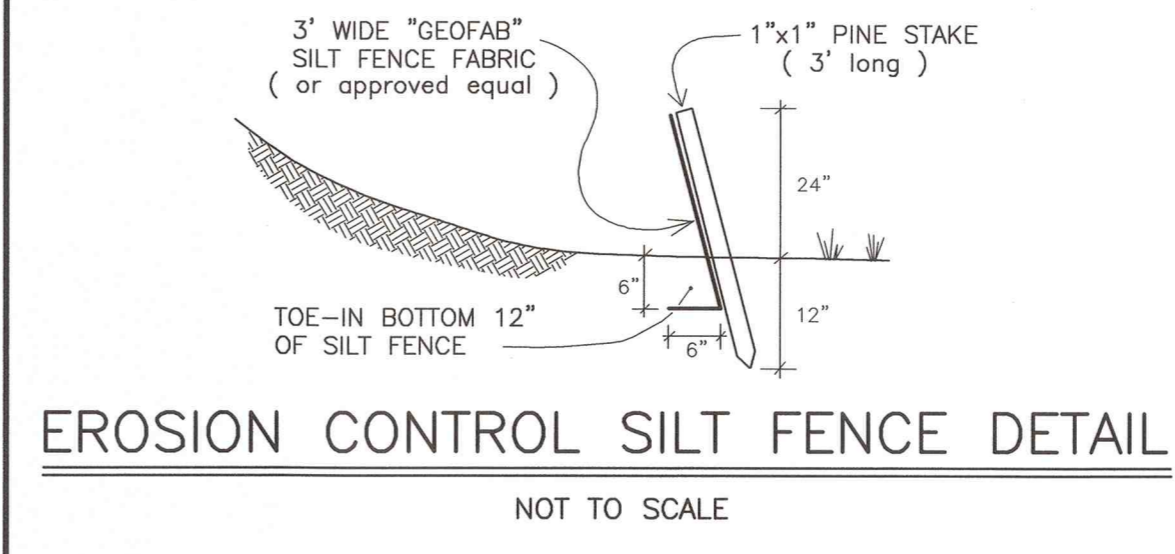
FAIRHAVEN PLANNING BOARD
APPROVED UNDER SUBDIVISION CONTROL LAW
DATE APPROVED: _____
DATE SIGNED: _____
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"DEFINITIVE SUBDIVISION PLAN"
OF DEVELOPMENT TO BE KNOWN AS
"SCONTICUT NECK WOODS"
OFF
HILLER AVENUE AND TIMOTHY STREET
IN
FAIRHAVEN, MA
PREPARED FOR
ROBERT RODRIGUES
SHEET 11 OF 11 SHEETS
"CONSTRUCTION DETAILS"
SCALE: VARIES DATE: NOVEMBER 8, 2018
SCHNEIDER, DAVIGNON & LEONE, INC.
PROFESSIONAL CIVIL ENGINEERS & LAND SURVEYORS
1 COUNTY RD. P.O. BOX 480, MATTAPOISETT, MA 02739
1-508-758-7866
Drawn By: D.M.D. Check By: N.D.S. Job No. 3072



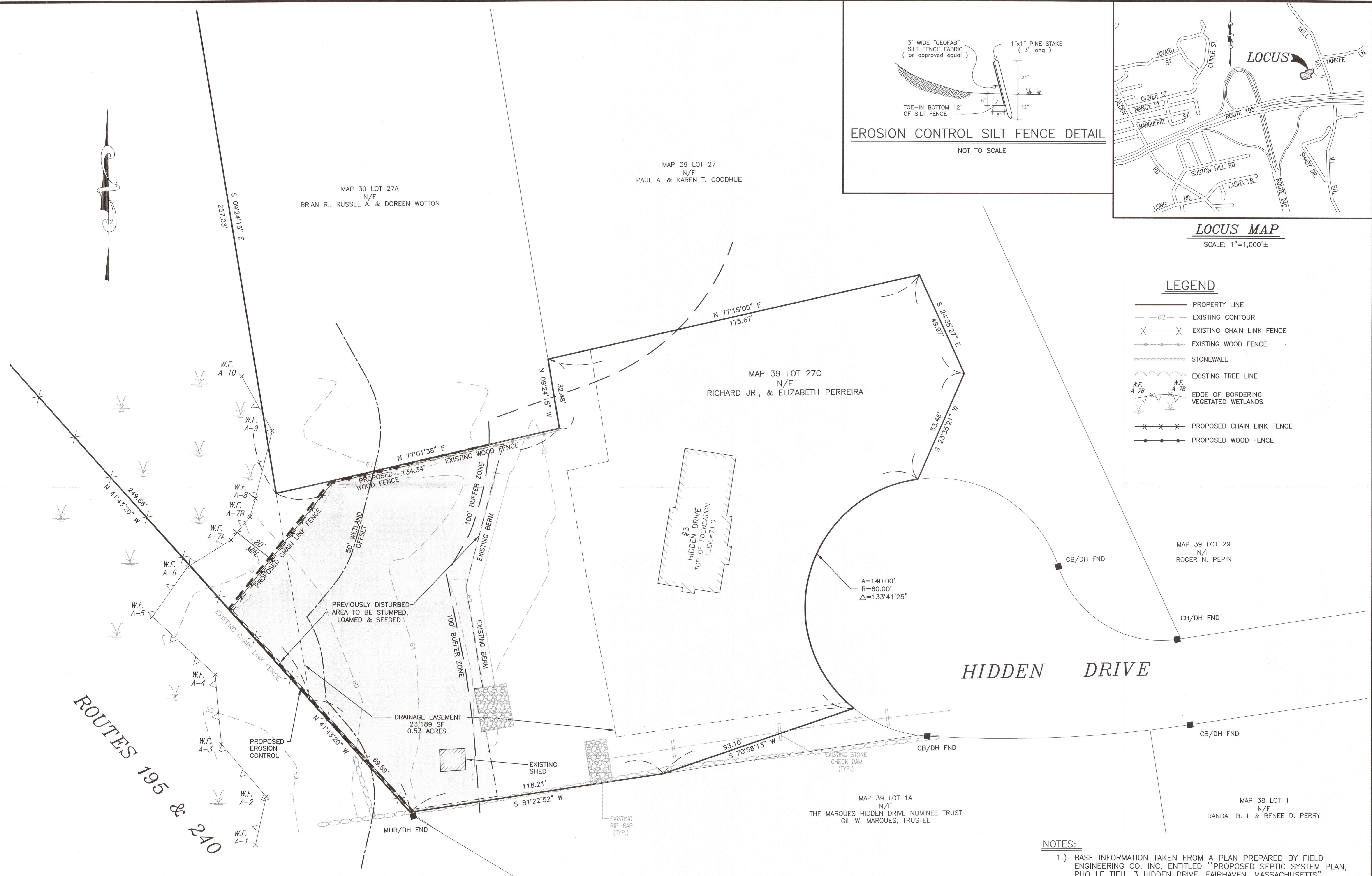
LOCUS MAP
SCALE: 1"=1,000'±



EROSION CONTROL SILT FENCE DETAIL
NOT TO SCALE

LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- EXISTING CHAIN LINK FENCE
- EXISTING WOOD FENCE
- STONEWALL
- EXISTING TREE LINE
- EDGE OF BORDERING VEGETATED WETLANDS
- PROPOSED CHAIN LINK FENCE
- PROPOSED WOOD FENCE



ROUTES 195 & 240

- NOTES:**
- 1.) BASE INFORMATION TAKEN FROM A PLAN PREPARED BY FIELD ENGINEERING CO. INC. ENTITLED "PROPOSED SEPTIC SYSTEM PLAN, PHO LE TIEU, 3 HIDDEN DRIVE, FAIRHAVEN, MASSACHUSETTS", REV. 11/15/13.
 - 2.) EXISTING CONDITIONS SHOWN ARE A RESULT OF AN ON THE GROUND SURVEY PERFORMED BY SITEC, INC. IN MARCH 2020.
 - 3.) THE WETLANDS LINE DEPICTED ON THE PLAN WAS DELINEATED BY CHRISTOPHER CAPONE IN FEBRUARY 2020 AND FIELD LOCATED AS PART OF THE EXISTING CONDITIONS SURVEY.

Check. By	Apprd. By

Revision Description	Date

No.	Date

Scale	Date	Drawn	Checked	Approved	Sheet	of	Drawn Number
1"=20'	NOV. 30, 2020	NAD	SDG	SDG	1	1	1-1

PROJECT: MAP 39 LOT 27C
3 HIDDEN DRIVE
FAIRHAVEN, MASSACHUSETTS

CLIENT: RICHARD, JR. & ELIZABETH PERREIRA

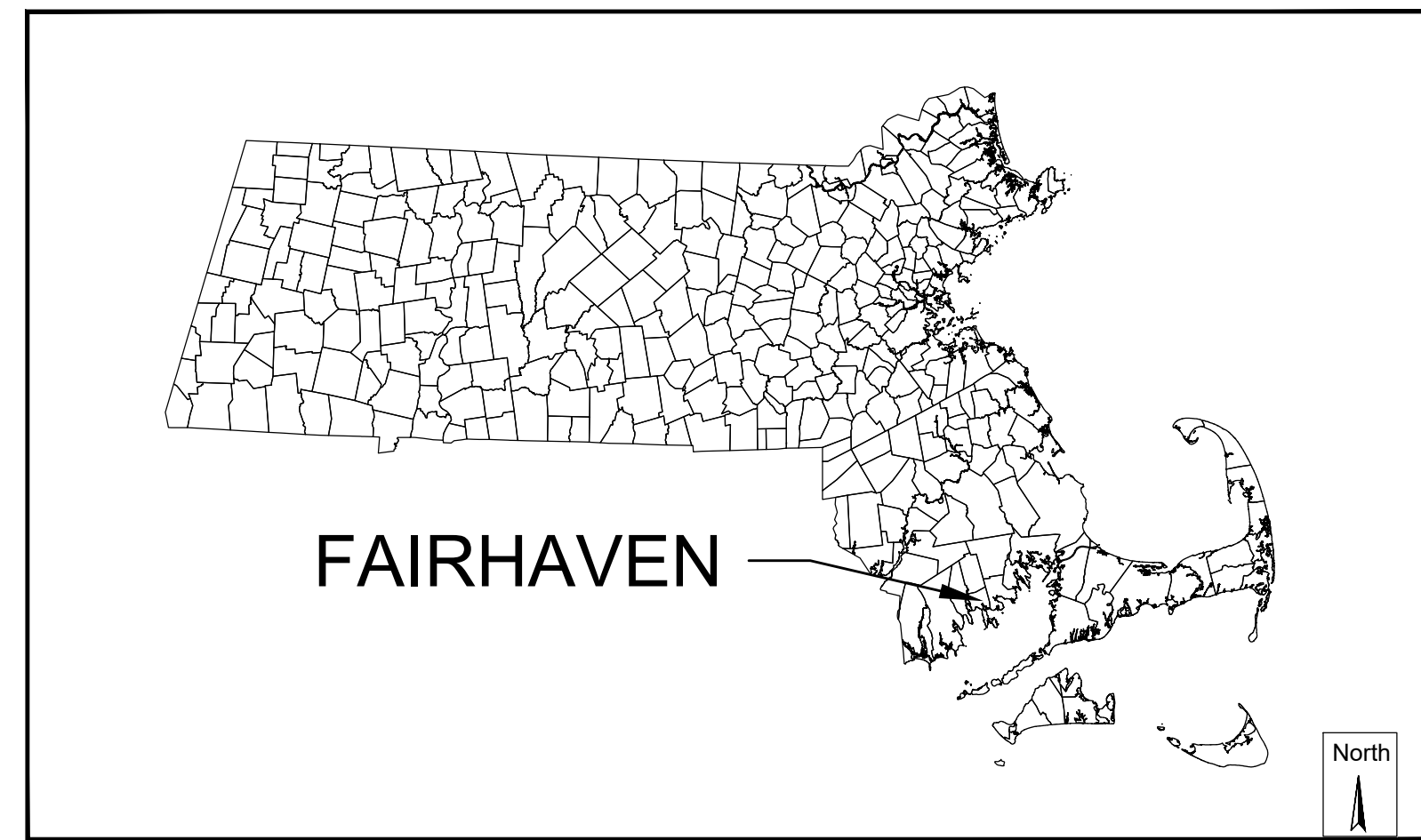
DRAWING TITLE: LANDSCAPE IMPROVEMENT PLAN

SITEC, Inc.
449 Fauce Corner Road
Fairhaven, MA 01924
(508) 998-8122
(508) 998-8127
WWW.SITEC-ENGINEERING.COM

SITEC
Civil and Environmental Engineering
Land Use Planning

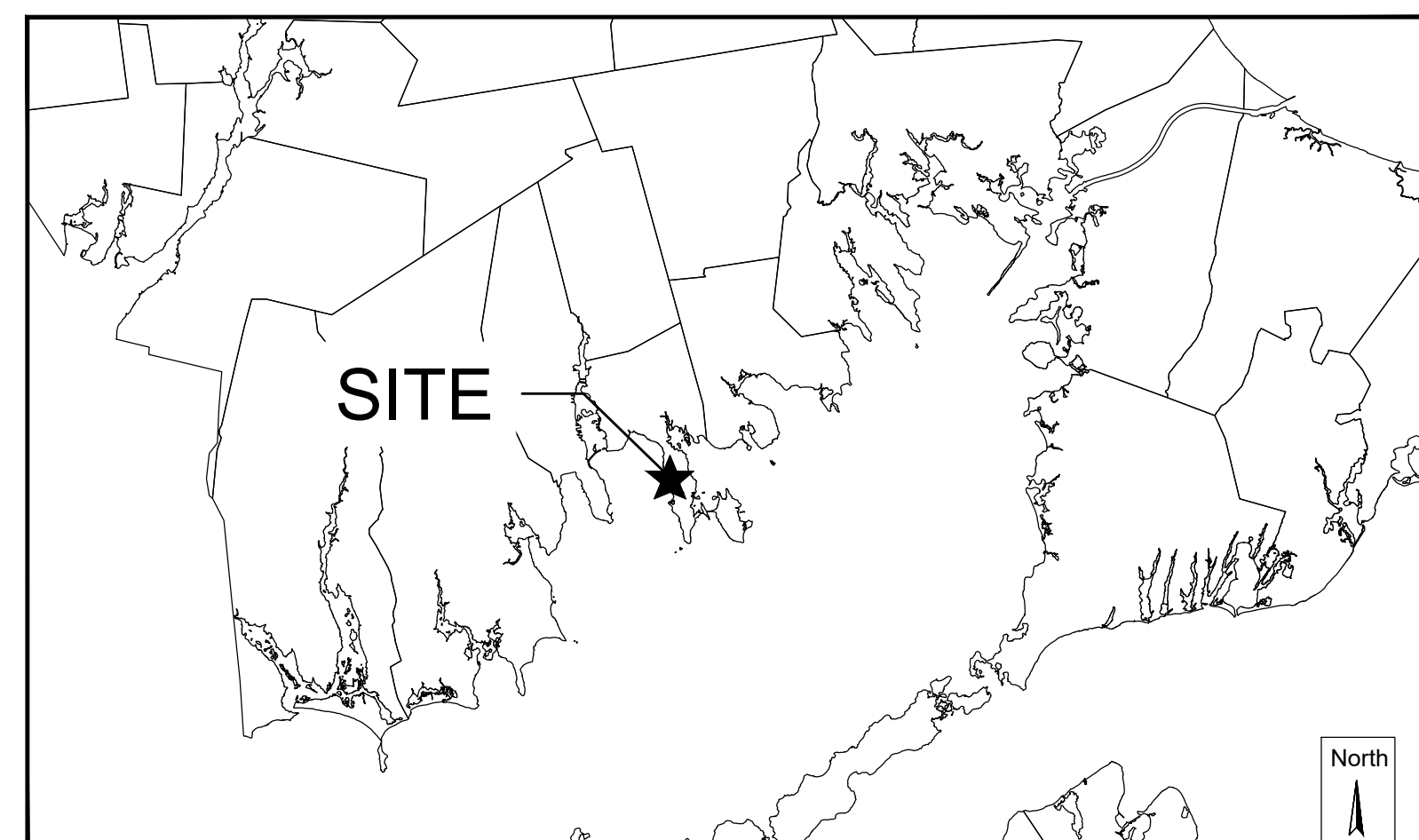
Acad No. FVN 20-7539 LIP.DWG
File No. 20-7539

BUZZARDS BAY STORMWATER RETROFITS JERUSALEM ROAD - PERMITTING PLANS FAIRHAVEN, MASSACHUSETTS JANUARY 2021



MASSACHUSETTS

Graphic Scale
0 150000
SCALE IN FEET
1:150000



FAIRHAVEN

Graphic Scale
0 12000
SCALE IN FEET
1:12000



VICINITY MAP

Scale
1 inch = 500 feet

Sheet List Table	
Sheet Number	Sheet Title
1	COVER
2	GENERAL NOTES
3	EXISTING CONDITIONS 1
4	EXISTING CONDITIONS 2
5	ESC AND DEMO PLAN
6	SITE PLAN 1
7	SITE PLAN 2
8	CONSTRUCTION DETAILS
9	PLANTING PLAN (1)
10	PLANTING PLAN (2) & DETAILS

NOTE: This product has been funded wholly or in part by the United States Environmental Protection Agency under Assistance Agreement CE00A00623-0 to the Buzzards Bay National Estuary Program, Executive Office of Energy and Environmental Affairs. The contents of this document do not necessarily reflect the views and policies of the U.S. Environmental Agency, nor does the U.S. EPA endorse trade names or recommend the use of any products, services, or enterprises mentioned in this document.

Plan Set:
**BUZZARDS BAY STORMWATER RETROFITS
JERUSALEM ROAD - PERMITTING PLANS
FAIRHAVEN, MASSACHUSETTS**

Prepared For:
Town of Fairhaven Board of Public Works
5 Arsene St
Fairhaven, MA 02719
(508) 979-4030

Prepared By:
Horsley Witten Group, Inc.
Sustainable Environmental Solutions
www.horsleywitten.com

Headquarters
90 Route 6A
Sandwich, MA 02563
(508) 833-6600 voice
(508) 833-3150 fax

112 Water St, 6th Floor
Boston, MA 02109
(857) 263-8193

55 Dorrance Street, Suite 200
Providence, RI 02906
(401) 272-1717 voice
(401) 439-8368 fax

113 Water Street, R2
Exeter, NH 03833
(603) 658-1660

Registration: 1-4-2021	<table border="1"> <thead> <tr> <th colspan="4">Revisions</th> </tr> <tr> <th>Rev.</th> <th>Date</th> <th>By</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Revisions				Rev.	Date	By	Description																	Project Number: 20057 Sheet Number: 1 of 10 Drawing Number: C-1
Revisions																										
Rev.	Date	By	Description																							

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GENERAL CONSTRUCTION NOTES:

- 1. ALL SITE WORK TO COMPLETE THIS PROJECT AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
2. IMMEDIATELY CONTACT AND COORDINATE WITH THE ENGINEER AND OWNER IF ANY DEVIATION OR ALTERATION OF THE WORK PROPOSED ON THESE DRAWINGS IS REQUIRED.
3. UTILIZE ALL PRECAUTIONS AND MEASURES TO ENSURE THE SAFETY OF THE PUBLIC, ALL PERSONNEL AND PROPERTY DURING CONSTRUCTION IN ACCORDANCE WITH OSHA STANDARDS...

BASIC CONSTRUCTION SEQUENCE:

- 1. SURVEY AND STAKE THE PROPOSED LIMIT OF DISTURBANCE AND LIMIT OF SEDIMENTATION BARRIERS.
2. PLACE SEDIMENTATION BARRIERS (SILT SOCK, ETC.) AS INDICATED ON DRAWINGS AND STAKED OUT IN THE FIELD. UNDER NO CIRCUMSTANCES IS THE LIMIT OF WORK TO EXTEND BEYOND THE SEDIMENTATION BARRIERS...

STORMWATER FACILITY OPERATION & MAINTENANCE:

- 1. INSPECT AND RESTORE/CLEAN ALL FACILITIES (INLETS, MANHOLES, STORMWATER MANAGEMENT AREAS AS DESCRIBED BELOW OF SEDIMENT AND DEBRIS PRIOR TO THE OWNER'S ACCEPTANCE.
2. REMOVE AND DISPOSE ALL SEDIMENT AND DEBRIS TO A PRE-APPROVED LOCATION.
3. AT A MINIMUM INSPECT MONTHLY AND AFTER STORM EVENTS GREATER THAN OR EQUAL TO 1" OF RAINFALL AS NECESSARY...

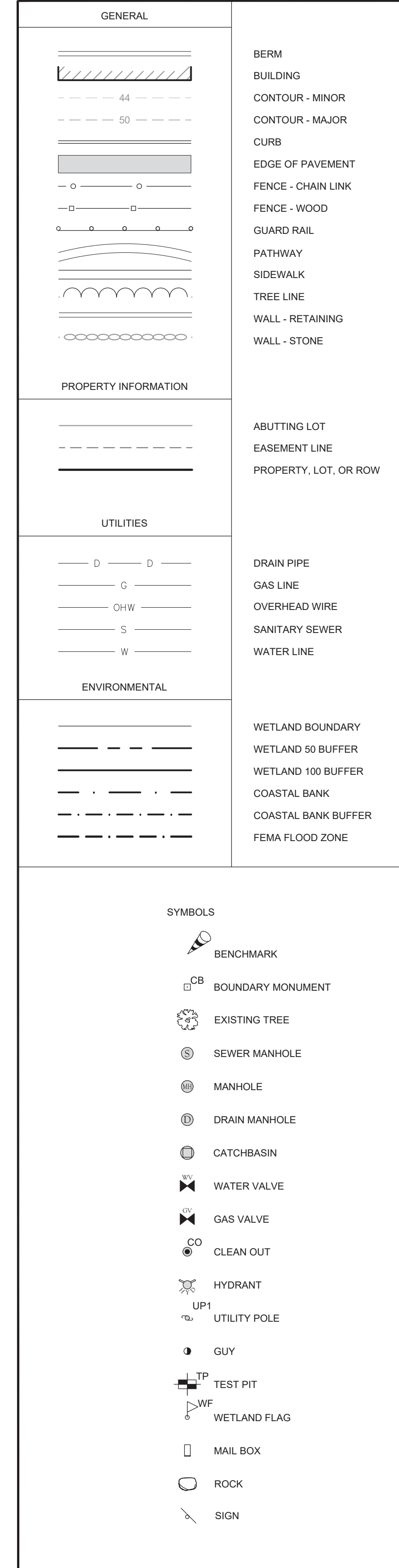
GENERAL GRADING AND DRAINAGE NOTES:

- 1. ALL CUT AND FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.
2. EXISTING GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT.
3. PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT.
4. ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.

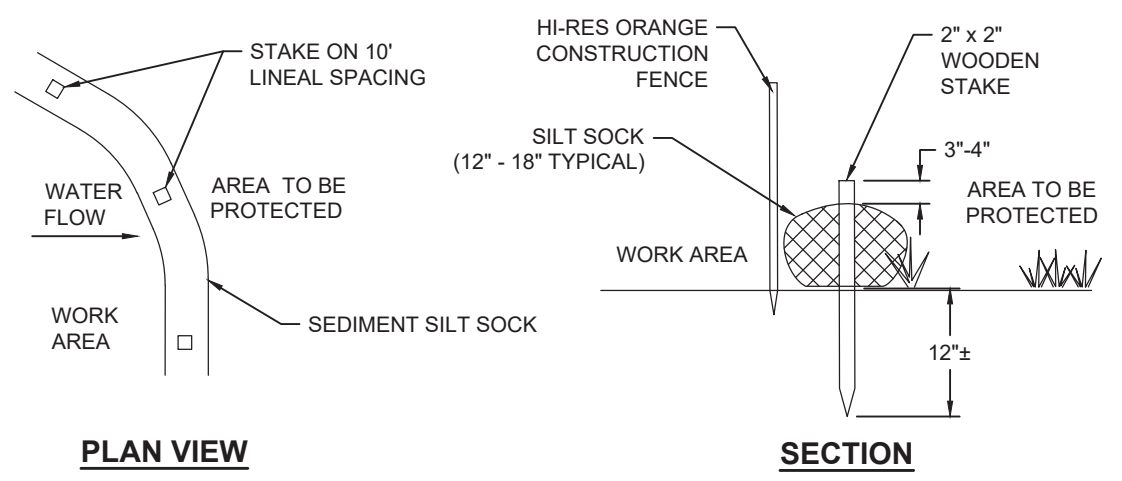
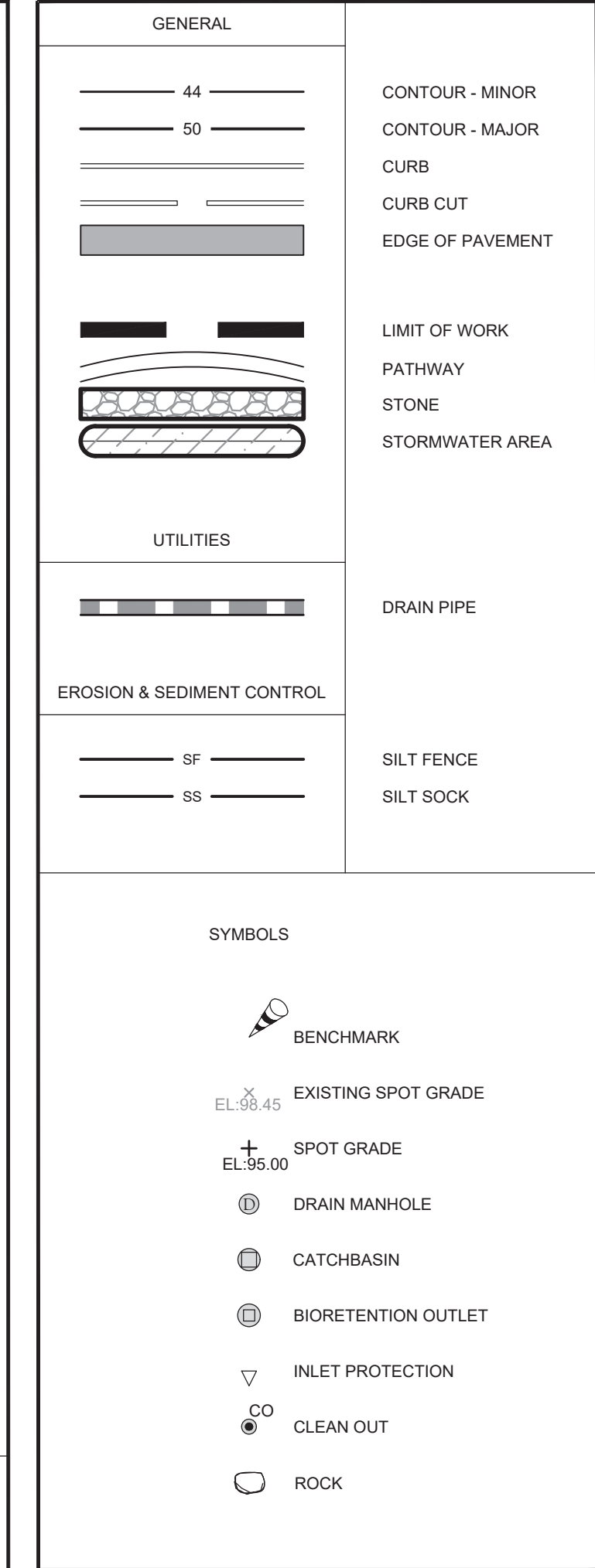
DEWATERING:

- 1. IF DEWATERING IS REQUIRED DURING EXCAVATION, TEMPORARILY LOWER THE WATER TABLE PER SPECIFICATIONS. INSTALL A DEWATERING BASIN AS INDICATED IN THE DEWATERING BASIN DETAIL AND PROVIDE A DEWATERING PLAN DEPICTING PROPOSED DEWATERING LOCATION FOR REVIEW AND APPROVAL.
2. PRIOR TO ANY DEWATERING, THE DEWATERING PLAN MUST BE APPROVED BY THE ENGINEER.
3. IF DEWATERING IS NECESSARY DURING CONSTRUCTION, IMPLEMENT THE PROPER ESC MEASURES ON SITE TO PREVENT EROSION OR SEDIMENT RUNOFF...

EXISTING CONDITIONS LEGEND:

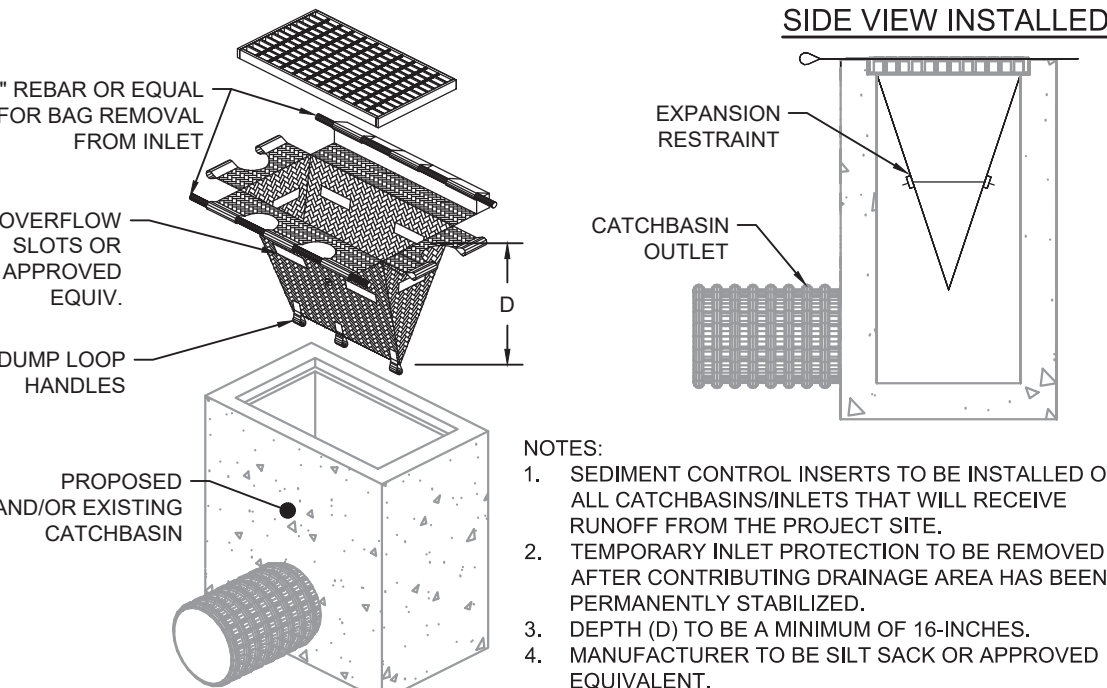


PROPOSED CONDITIONS LEGEND:

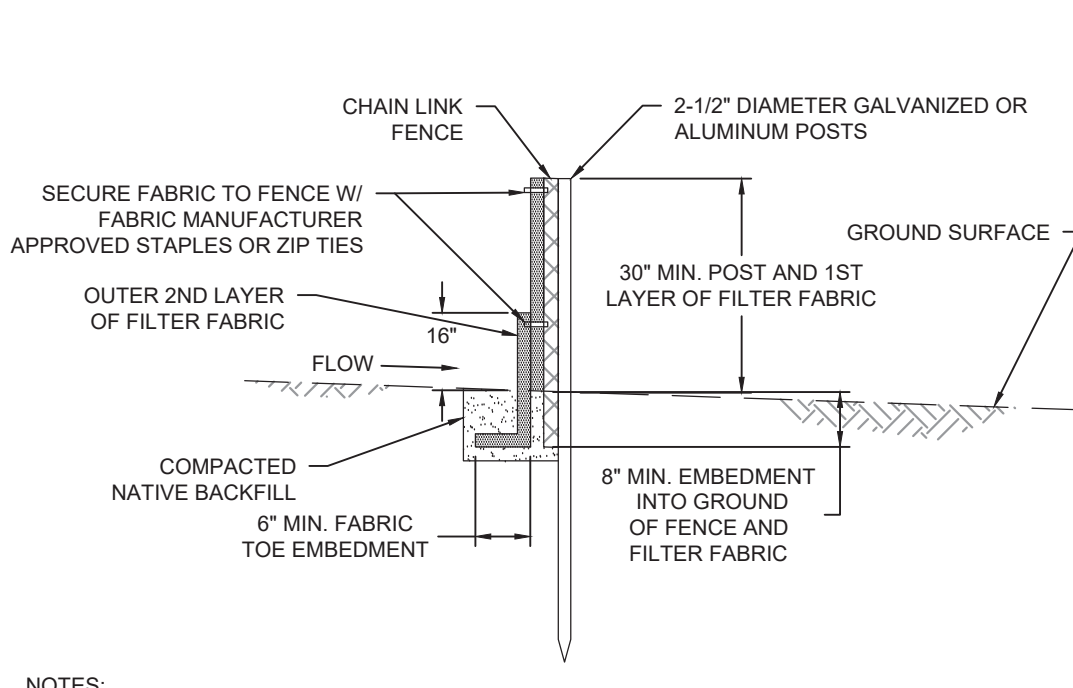


- NOTES:
1. SILT SOCK MANUFACTURER TO BE SILT SOCK OR ENGINEER APPROVED EQUIV.
2. ALL MATERIAL TO MEET MANUFACTURER'S SPECIFICATIONS.
3. SEDIMENT SILT SOCK TO BE FILLED WITH LEAF COMPOST AND/OR WOODY MULCH PER MANUFACTURER'S REQUIREMENTS.
4. FOLLOWING CONSTRUCTION AND SITE STABILIZATION, COMPOST MATERIAL TO BE REMOVED OR DISPERSED ON SITE, AS APPROVED BY THE ENGINEER.

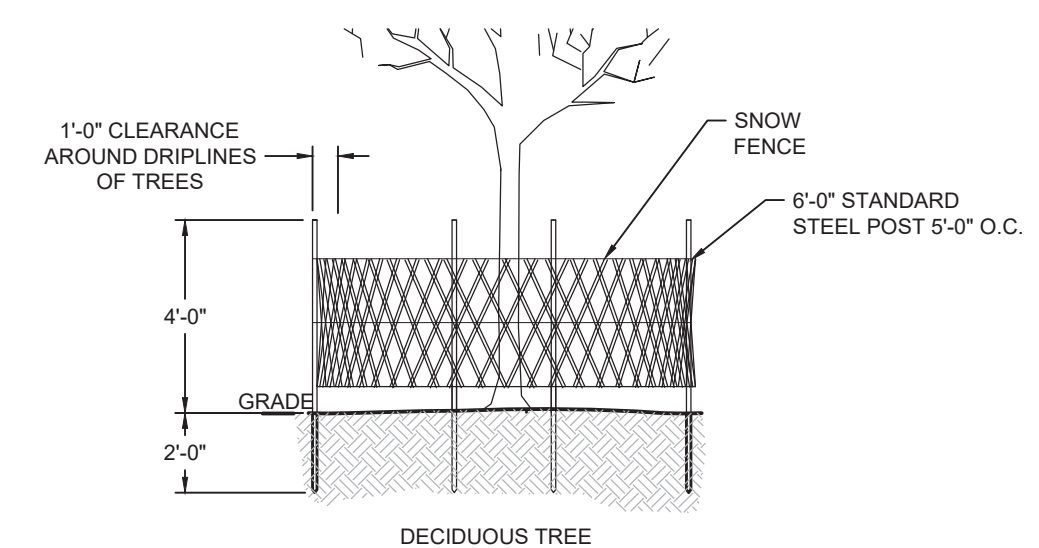
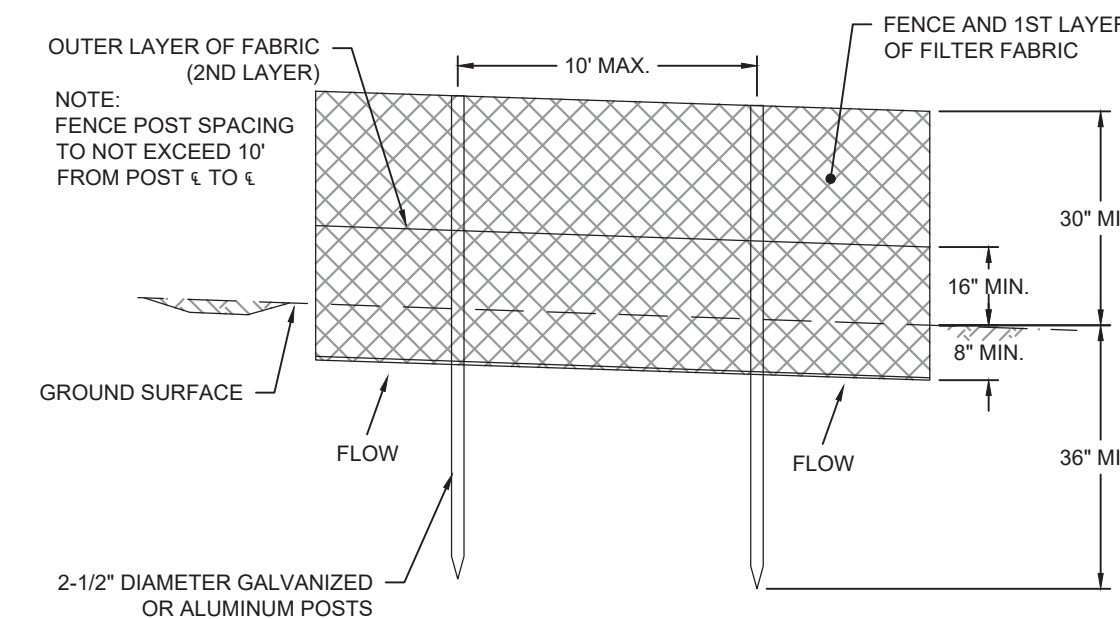
SEDIMENT SILT SOCK NOT TO SCALE



TEMPORARY CATCHBASIN INSERT WITH INLET PROTECTION NOT TO SCALE



SUPER SILT FENCE WITH FILTER FABRIC NOT TO SCALE

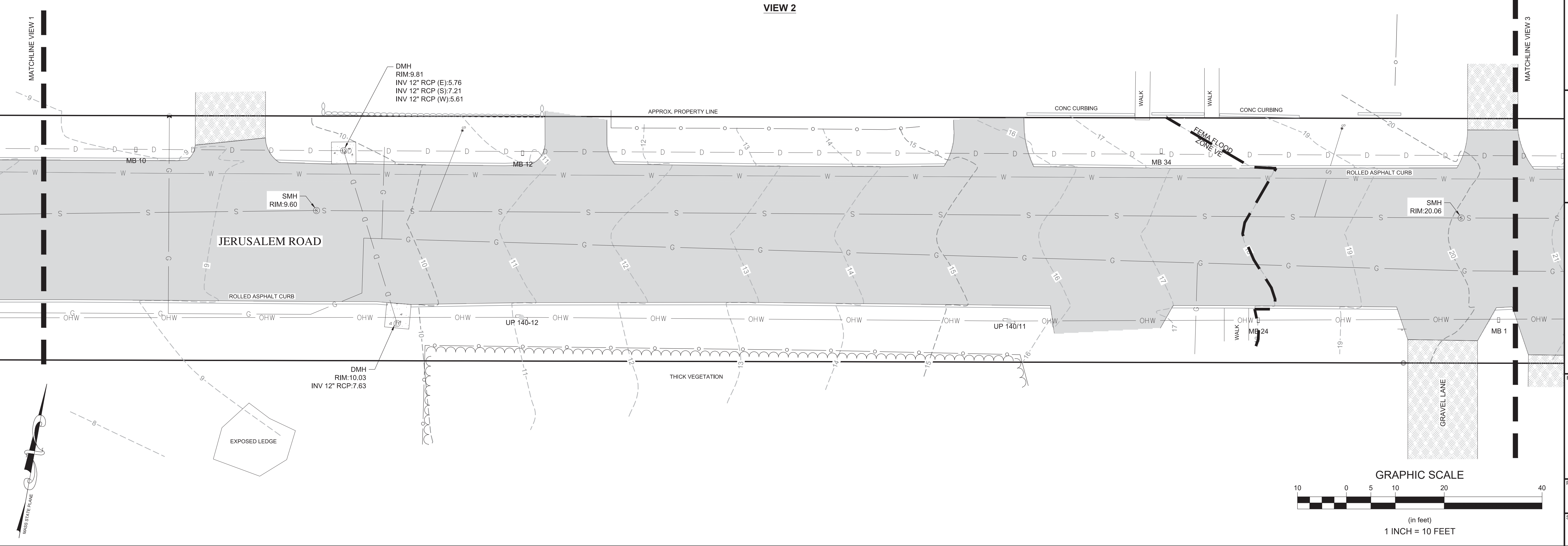
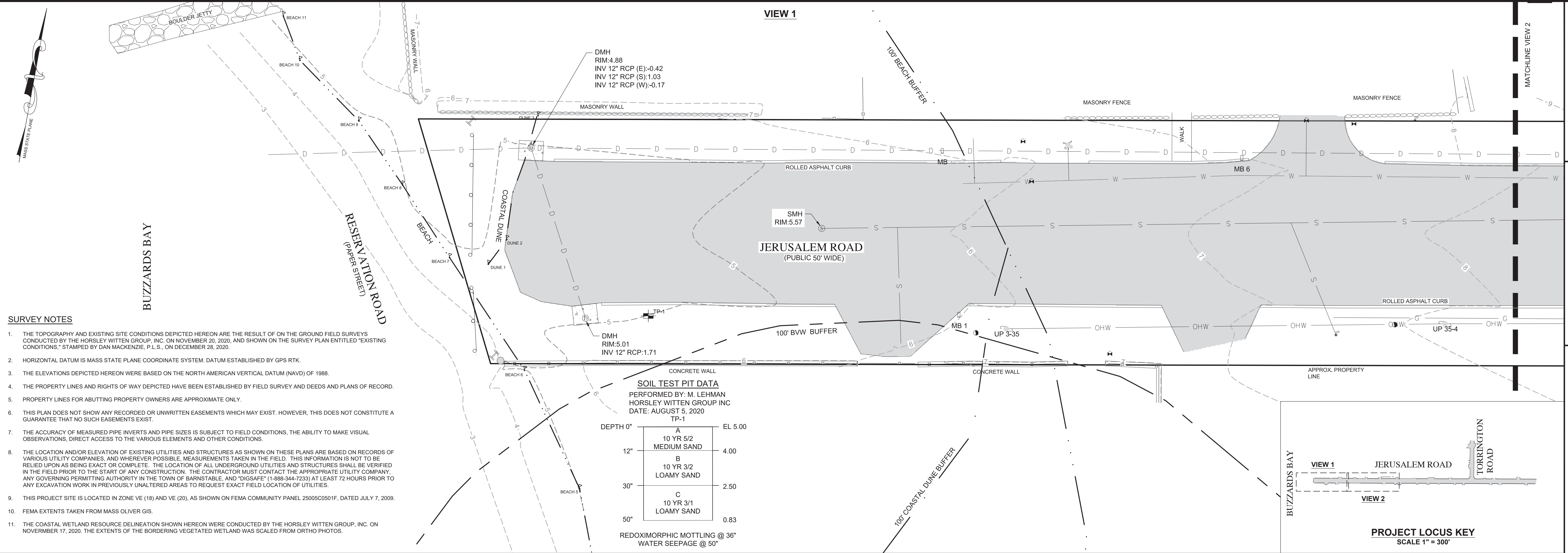


- NOTES:
1. FENCING SHALL BE ORANGE RESINET SM60 BARRIER FENCE 'SNOW FENCE' OR APPROVED EQUIVALENT.
2. POST SHALL BE HOT ROLLED RAIL STEEL AND FORMED INTO A 'T' POST SECTION, APPROXIMATELY 1 7/16\"/>

TREE PROTECTION NOT TO SCALE

Revisions table, project information for Buzzards Bay Stormwater Retrofits, Jerusale Road - Permitting Plans, Fairhaven, Massachusetts. Includes contact information for Horsley Witten Group, Inc. and Town of Fairhaven Board of Public Works. Registration stamp for Richard A. Witten, Professional Engineer, No. 4816, State of Massachusetts. Project Number: 20057, Sheet: 2 of 10. Date: 1-9-2021.

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- SURVEY NOTES**
- THE TOPOGRAPHY AND EXISTING SITE CONDITIONS DEPICTED HEREON ARE THE RESULT OF ON THE GROUND FIELD SURVEYS CONDUCTED BY THE HORSLEY WITTEN GROUP, INC. ON NOVEMBER 20, 2020, AND SHOWN ON THE SURVEY PLAN ENTITLED "EXISTING CONDITIONS," STAMPED BY DAN MACKENZIE, P.L.S., ON DECEMBER 28, 2020.
 - HORIZONTAL DATUM IS MASS STATE PLANE COORDINATE SYSTEM. DATUM ESTABLISHED BY GPS RTK.
 - THE ELEVATIONS DEPICTED HEREON WERE BASED ON THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.
 - THE PROPERTY LINES AND RIGHTS OF WAY DEPICTED HAVE BEEN ESTABLISHED BY FIELD SURVEY AND DEEDS AND PLANS OF RECORD.
 - PROPERTY LINES FOR ABUTTING PROPERTY OWNERS ARE APPROXIMATE ONLY.
 - THIS PLAN DOES NOT SHOW ANY RECORDED OR UNWRITTEN EASEMENTS WHICH MAY EXIST. HOWEVER, THIS DOES NOT CONSTITUTE A GUARANTEE THAT NO SUCH EASEMENTS EXIST.
 - THE ACCURACY OF MEASURED PIPE INVERTS AND PIPE SIZES IS SUBJECT TO FIELD CONDITIONS. THE ABILITY TO MAKE VISUAL OBSERVATIONS, DIRECT ACCESS TO THE VARIOUS ELEMENTS AND OTHER CONDITIONS.
 - THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF VARIOUS UTILITY COMPANIES, AND WHEREVER POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD PRIOR TO THE START OF ANY CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY IN THE TOWN OF BARNSTABLE, AND "DIGSAFE" (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK IN PREVIOUSLY UNALTERED AREAS TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
 - THIS PROJECT SITE IS LOCATED IN ZONE VE (18) AND VE (20), AS SHOWN ON FEMA COMMUNITY PANEL 25005C0501F, DATED JULY 7, 2009.
 - FEMA EXTENTS TAKEN FROM MASS OLIVER GIS.
 - THE COASTAL WETLAND RESOURCE DELINEATION SHOWN HEREON WERE CONDUCTED BY THE HORSLEY WITTEN GROUP, INC. ON NOVEMBER 17, 2020. THE EXTENTS OF THE BORDERING VEGETATED WETLAND WAS SCALED FROM ORTHO PHOTOS.

SOIL TEST PIT DATA
PERFORMED BY: M. LEHMAN
HORSLEY WITTEN GROUP INC
DATE: AUGUST 5, 2020
TP-1

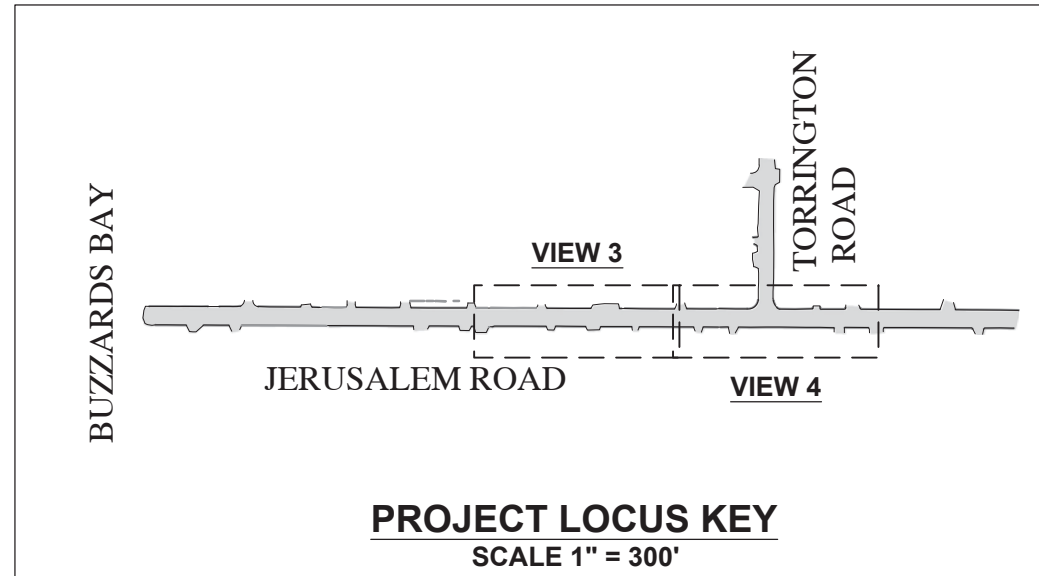
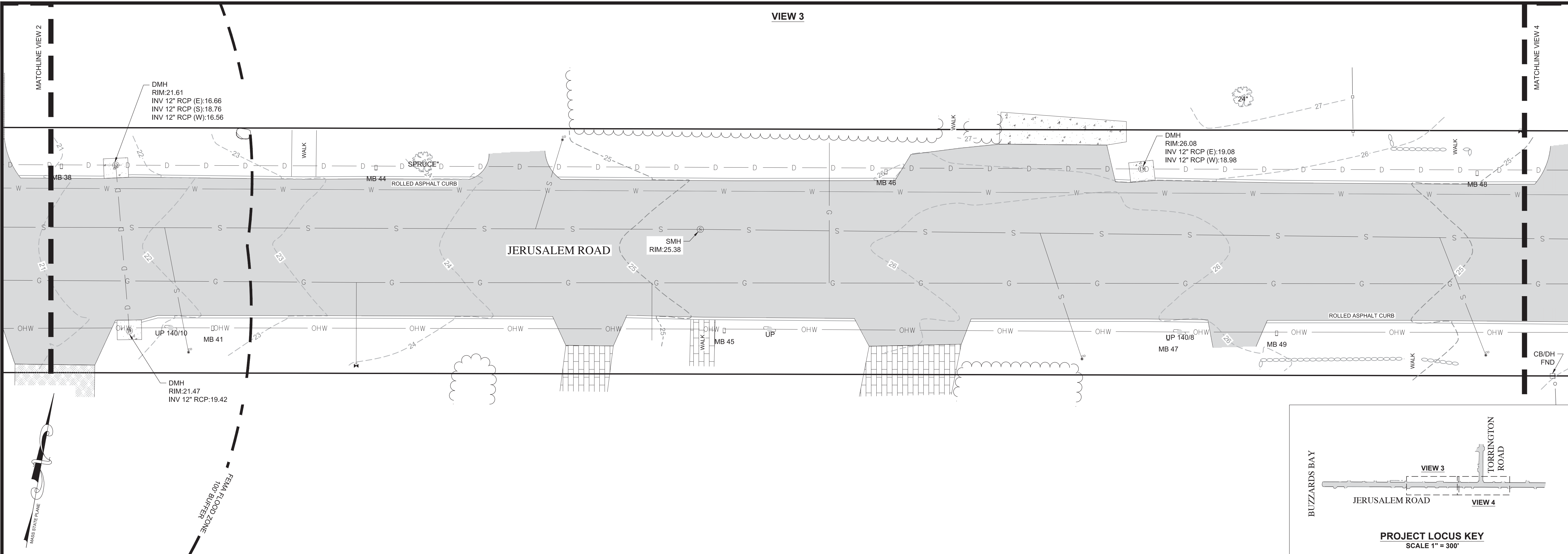
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10 YR 5/2	MEDIUM SAND	4.00
10 YR 3/2	LOAMY SAND	2.50
10 YR 3/1	LOAMY SAND	0.83

REDOXIMORPHIC MOTTLING @ 36"
WATER SEEPAGE @ 50"

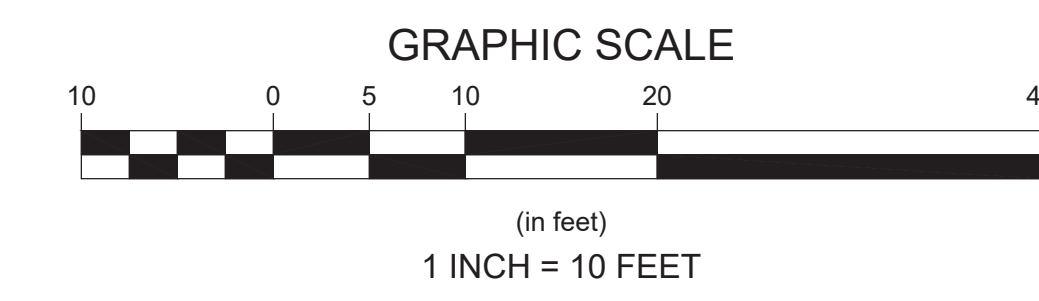
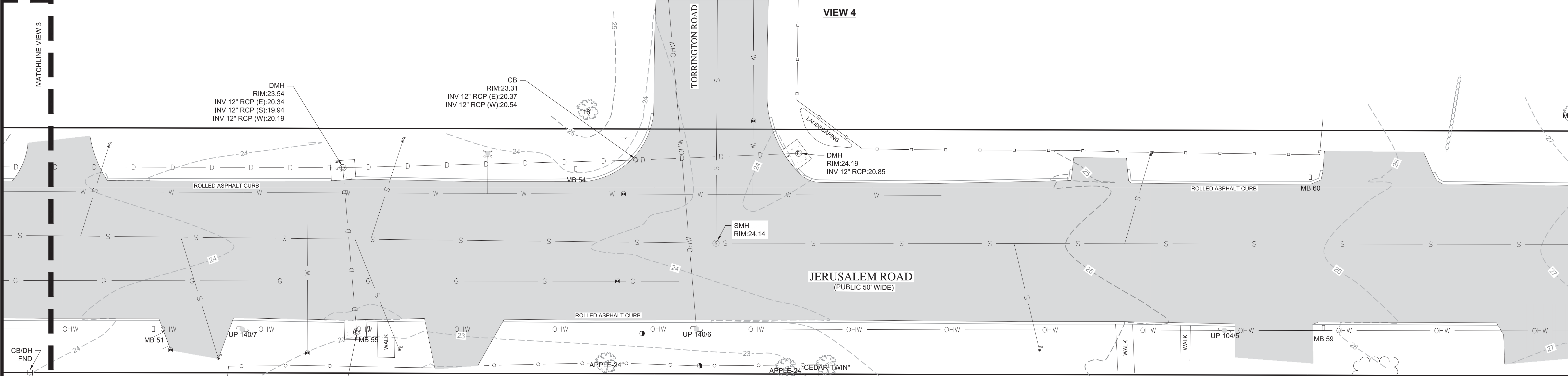
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VIEW 3



VIEW 4



Revisions

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Horsley Witten Group, Inc.
 Sustainable Environmental Solutions
 90 Route 6A
 Sandwich, MA 02563
 508-833-6600 voice
 508-833-3150 fax

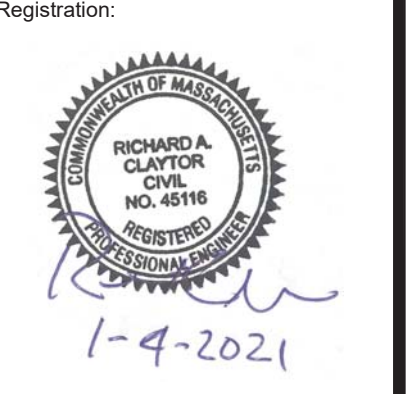
Checked By: MW
 Drawn By: MW
 Designed By: MW
 Date: JANUARY 2021

Plan Set:
BUZZARDS BAY STORMWATER RETROFITS
JERUSALEM ROAD - PERMITTING PLANS
FAIRHAVEN, MASSACHUSETTS

Plan Title:
EXISTING CONDITIONS 2

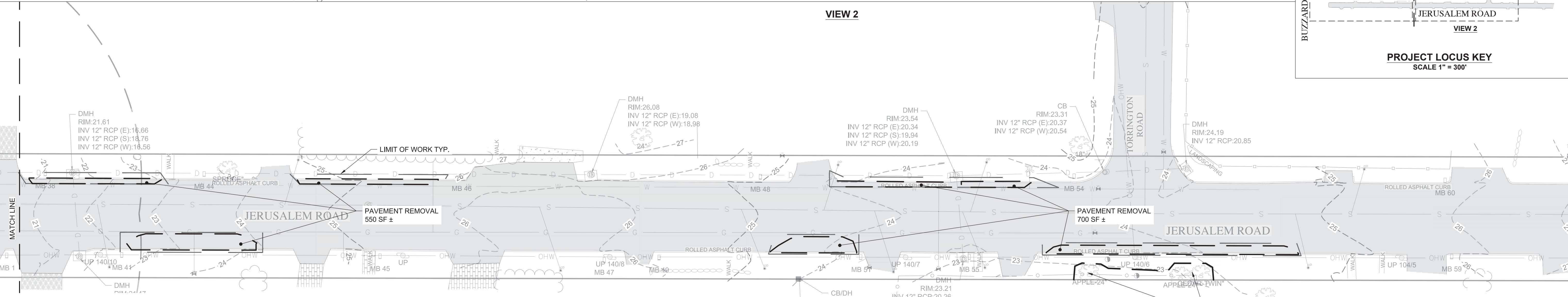
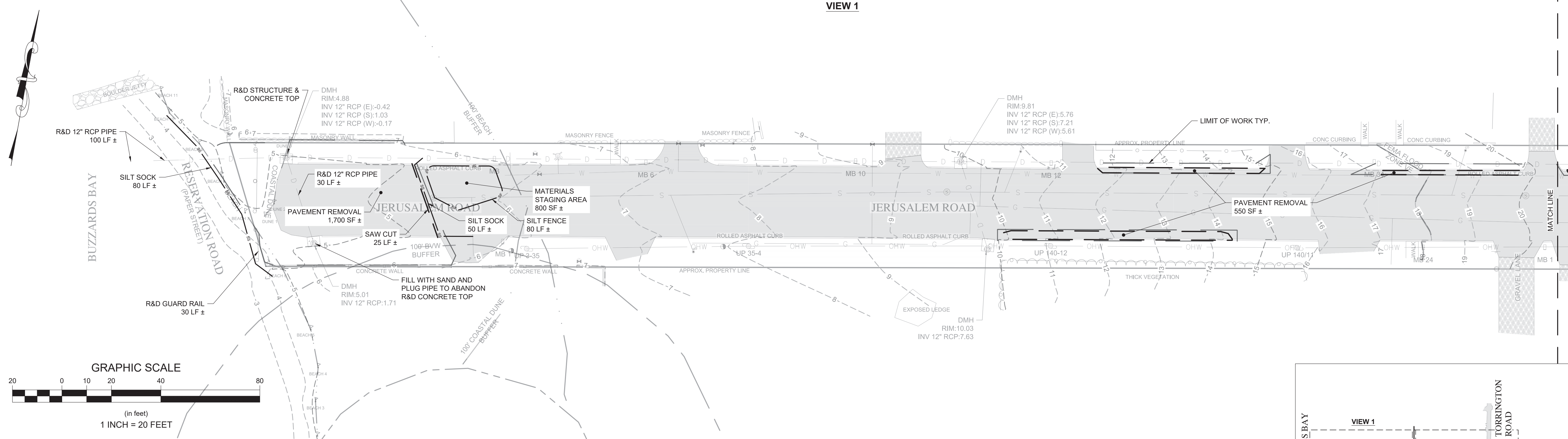
Prepared For:
Town of Fairhaven Board of Public Works
 5 Arden St
 Fairhaven, MA 02719
 Phone: (508) 879-4030
 Fax: ---

Survey Provided By:
Horsley Witten Group, Inc.
 90 Route 6A
 Sandwich, MA 02563
 Phone: (508) 833-6600
 Fax: (508) 833-3150
 Dated: November 20, 2020



Project Number: 20057
 Sheet: 4 of 10
 Sheet Number: C-4

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EROSION & SEDIMENT CONTROL NOTES:

1. DESIGNATE THE SITE CONSTRUCTION FOREMAN AS THE ON-SITE PERSONNEL RESPONSIBLE FOR THE DAILY INSPECTION AND MAINTENANCE OF ALL SEDIMENT AND EROSION CONTROLS AND IMPLEMENTATION OF ALL NECESSARY MEASURES TO CONTROL EROSION AND PREVENT SEDIMENT FROM LEAVING THE SITE.
2. INSTALL ALL EROSION AND SEDIMENT CONTROL (ESC) MEASURES AS INDICATED ON DRAWINGS IN CONSULTATION WITH THE CONSERVATION AGENT, AND ENGINEER BEFORE ANY CONSTRUCTION ACTIVITIES BEGIN. INSPECT, MAINTAIN REPAIR AND REPLACE EROSION CONTROL MEASURES, AS NECESSARY, DURING THE ENTIRE CONSTRUCTION PERIOD OF THE PROJECT. THE SITE PERIMETER EROSION CONTROLS ARE THE DESIGNATED LIMIT OF WORK. INFORM ALL PERSONNEL WORKING ON THE PROJECT SITE THAT NO CONSTRUCTION ACTIVITY IS TO OCCUR BEYOND THE LIMIT OF WORK AT ANY TIME THROUGHOUT THE CONSTRUCTION PERIOD.
3. MAINTAIN A MINIMUM SURPLUS OF 100 FEET OF EROSION CONTROL BARRIER (SILT FENCE, STRAWBALE, &/OR SILT SOCK) ONSITE AT ALL TIMES.
4. PROTECT THE ADJACENT RESOURCE AREA FROM SEDIMENTATION DURING PROJECT CONSTRUCTION UNTIL ACCEPTANCE BY THE OWNER & IN CONFORMANCE WITH THE ORDER OF CONDITIONS.
5. KEEP THE LIMIT OF CLEARING, GRADING AND DISTURBANCES TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. PHASE THE SITE WORK IN A MANNER TO MINIMIZE AREAS OF EXPOSED SOIL. IF TREES ARE TO BE CUT ON THE ENTIRE SITE, CLEAR AND GRUB ONLY THOSE AREAS WHICH ARE ACTIVELY UNDER CONSTRUCTION. PROPERLY INSTALL THE SEDIMENTATION CONTROLS PRIOR TO BEGINNING ANY LAND CLEARING ACTIVITY AND/OR OTHER CONSTRUCTION RELATED WORK.
6. MONITOR LOCAL WEATHER REPORTS DURING CONSTRUCTION AND PRIOR TO SCHEDULING EARTHMOVING OR OTHER CONSTRUCTION ACTIVITIES WHICH LEAVE LARGE DISTURBED AREAS UNSTABILIZED. IF INCLEMENT WEATHER IS PREDICTED, USE BEST PROFESSIONAL JUDGEMENT AND GOOD CONSTRUCTION PRACTICES WHEN SCHEDULING CONSTRUCTION ACTIVITIES AND ENSURE THE NECESSARY EROSION CONTROL DEVICES ARE INSTALLED AND FUNCTIONING PROPERLY TO MINIMIZE EROSION FROM ANY IMPENDING WEATHER EVENTS.
7. INSPECT EROSION AND SEDIMENT CONTROL DEVICES AND STABILIZED SLOPES ON A WEEKLY BASIS AND AFTER EACH RAINFALL EVENT OF .25 INCH OR GREATER. REPAIR IDENTIFIED PROBLEMS WITHIN 24 HOURS TO ENSURE EROSION AND SEDIMENT CONTROLS ARE IN GOOD WORKING ORDER. RESET OR REPLACE MATERIALS AS REQUIRED.
8. SURROUND THE PERIMETER OF SOIL STOCKPILES WITH SILT SOCK, SILT FENCE, STRAWBALES, OR A COMBINATION OF SILT FENCE WITH STRAWBALE, AS DETERMINED NECESSARY.
9. DISTURBED AREAS AND SLOPES MUST NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON. PROVIDE APPROPRIATE STABILIZATION PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE BUT NOT MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED. REINFORCE TEMPORARY AREAS HAVING A SLOPE GREATER THAN 4:1 WITH EROSION BLANKETS OR APPROVED EQUIVALENT UNTIL THE SITE IS PROPERLY STABILIZED. TEMPORARY SWALES MAY ALSO BE REQUIRED IF DETERMINED NECESSARY IN THE FIELD BY THE ENGINEER.
10. INSTALL A SILT SACK OR APPROVED EQUIVALENT IN EACH EXISTING CATCH BASIN RECEIVING RUNOFF FROM THE SITE. UPON THE INSTALLATION OF EACH CATCH BASIN, INSTALL A SILT SACK OR APPROVED EQUIVALENT. INSPECT SILT SACKS, AFTER EACH SIGNIFICANT STORM EVENT AND REMOVE AND EMPTY AS NEEDED FOR THE DURATION OF THE CONSTRUCTION PERIOD.
11. BLOCK INFLOW OF STORMWATER INTO BIORETENTION AND HARD-EDGED BIORETENTIONS UNTIL THEY ARE STABILIZED.
12. CONTAIN ALL SEDIMENT ONSITE. SWEEP ALL EXITS FROM THE SITE AS NECESSARY INCLUDING ANY SEDIMENT TRACKING. SWEEP PAVED AREAS AS NEEDED TO REMOVE SEDIMENT AND POTENTIAL POLLUTANTS ACCUMULATED DURING SITE CONSTRUCTION.
13. REMOVE ACCUMULATED SEDIMENT FROM ALL TEMPORARY PRACTICES AND DISPOSE OF IN A PRE-APPROVED LOCATION.
14. PROVIDE ON SITE OR MAKE READILY AVAILABLE THE NECESSARY EQUIPMENT AND SITE PERSONNEL DURING CONSTRUCTION HOURS FOR THE DURATION OF THE PROJECT TO ENSURE ALL EROSION AND SEDIMENTATION CONTROL DEVICES ARE PROPERLY MAINTAINED AND REPAIRED IN A TIMELY AND RESPONSIBLE MANNER. IF SITE WORK IS SUSPENDED DURING THE WINTER MONTHS THE CONTRACTOR MUST CONTINUE TO PROVIDE PERSONNEL AND EQUIPMENT EITHER ON SITE OR READILY AVAILABLE TO PROPERLY MAINTAIN AND REPAIR ALL EROSION AND SEDIMENTATION CONTROL DEVICES IN A TIMELY AND RESPONSIBLE MANNER.
15. PRIOR TO THE INSTALLATION OF FILTER FABRIC AND MEDIA WITHIN THE BIORETENTION AREAS, REMOVE AND PROPERLY DISPOSE OF SEDIMENT ACCUMULATED IN ANY PARTIALLY CONSTRUCTED OR TEMPORARY BIORETENTION/DRAINAGE AREA USED FOR SEDIMENT CONTROL DURING CONSTRUCTION. PROVIDE A SURFACE ELEVATION AT A MINIMUM 1-FOOT ABOVE THE BOTTOM OF MEDIA ELEVATION AS SHOWN IN THE BIORETENTION SCHEDULE FOR PARTIALLY CONSTRUCTED BIORETENTION AREAS. THIS ALLOWS FOR AN OVER-DIG OF THE COLLECTED SEDIMENT FROM WITHIN THE BIORETENTION AREA PRIOR TO MEDIA/FABRIC INSTALLATION.
16. CONTROL DUST BY WATERING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE ENGINEER.
17. THE CONTRACTOR IS RESPONSIBLE FOR THE INSPECTION AND MAINTENANCE DURING CONSTRUCTION OF ALL STORMWATER FACILITIES INSTALLED OR AFFECTED BY THE PROJECT. REMOVE SEDIMENT OR DEBRIS COLLECTED WITHIN THESE FACILITIES FROM THE PROJECT WORK PRIOR TO THE OWNER'S ACCEPTANCE.

Revisions	Date	By	Appr.	Description

Horsley Witten Group, Inc.
 Sustainable Environmental Solutions
 80 Route 6A
 Sandwich, MA 02563
 508-833-6600 voice
 508-833-3150 fax

Checked By: HW
 Drawn By: HW
 Designed By: HW
 Date: JANUARY 2021

Plan Title:
**BUZZARDS BAY STORMWATER RETROFITS
 JERUSALEM ROAD - PERMITTING PLANS
 FAIRHAVEN, MASSACHUSETTS**

Plan Title:
ESC AND DEMO PLAN

Prepared For:
**Town of Fairhaven
 Board of Public Works**
 5 Arsenal St.
 Fairhaven, MA 02719
 Phone: (508) 979-4030
 Fax: ---

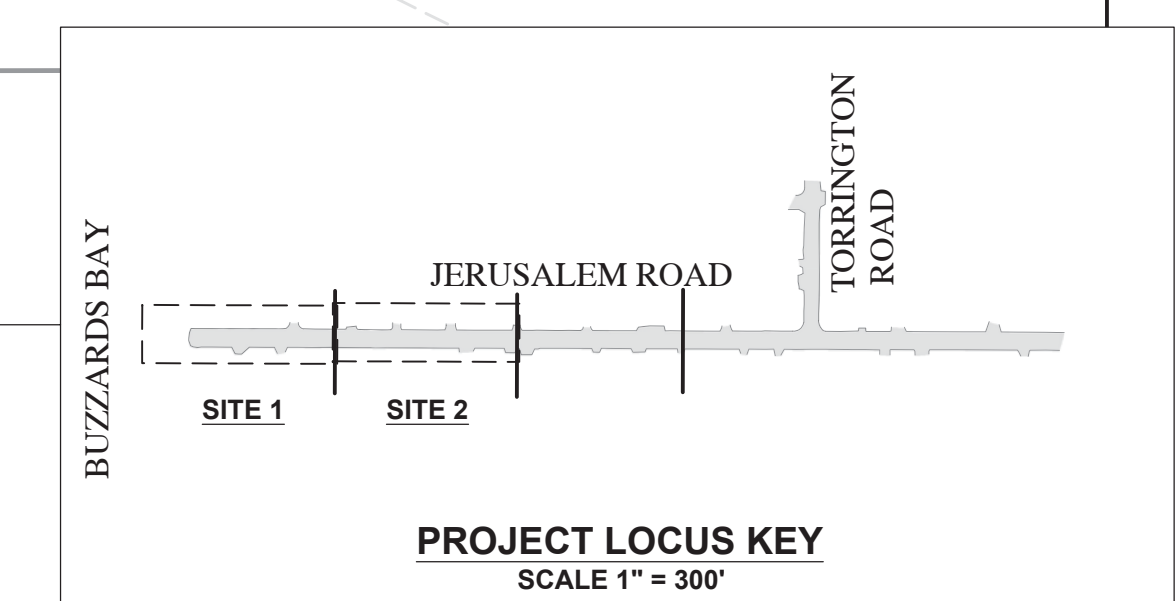
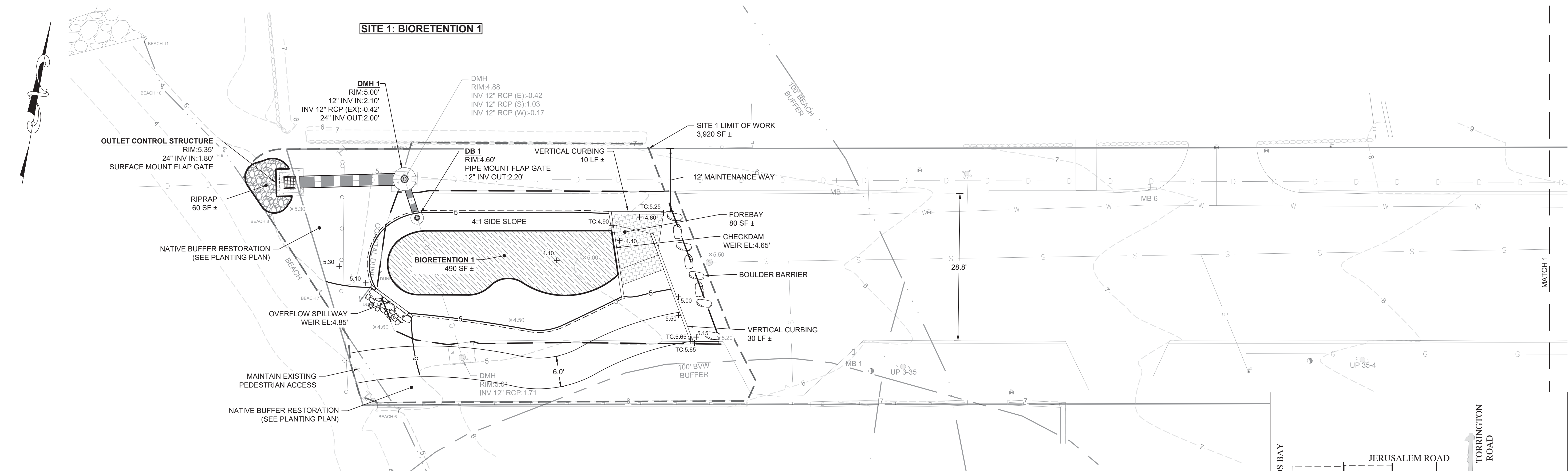
Survey Provided By:
Horsley Witten Group, Inc.
 80 Route 6A
 Sandwich, MA 02563
 Phone: (508) 833-6600
 Fax: (508) 833-3150
 Date: ---



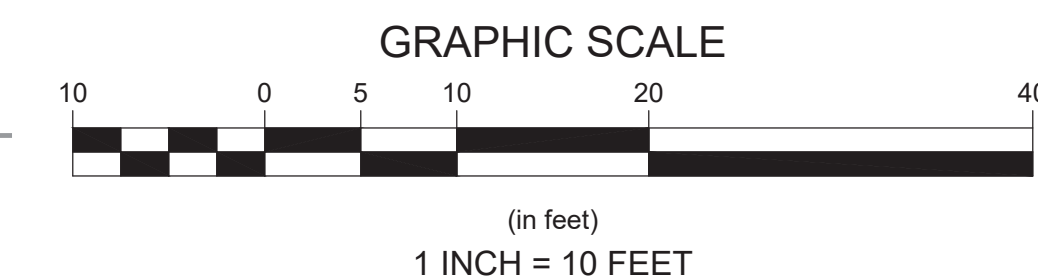
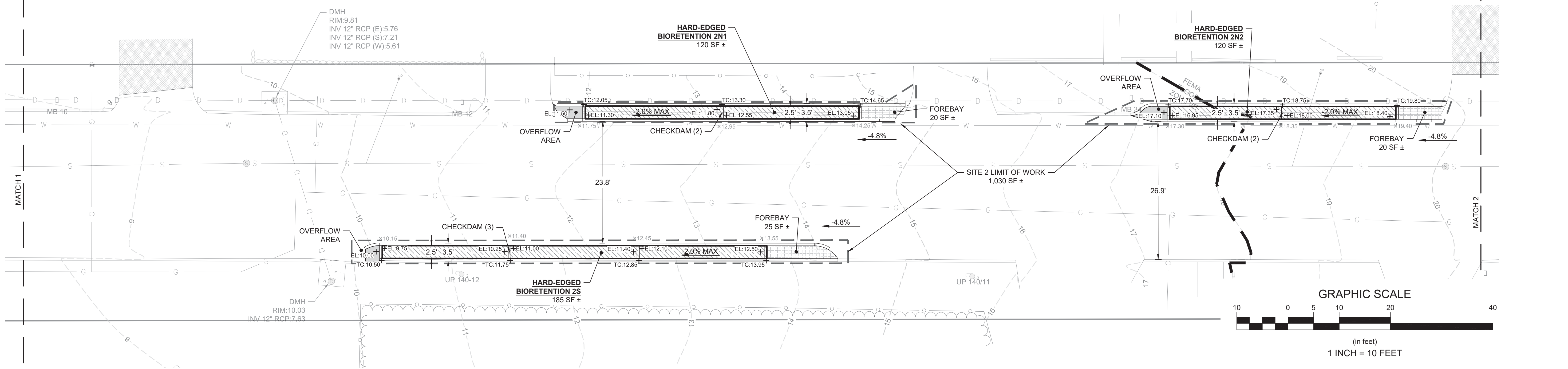
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C - 5

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SITE 2: HARD-EDGED BIORETENTIONS 2N1, 2N2, & 2S



Revisions	Date	By	Appr	Description

Horsley Witten Group, Inc.
 Sustainable Environmental Solutions
 90 Route 6A
 Sandwich, MA 02563
 Phone: (508) 833-6600 voice
 508-833-3150 fax

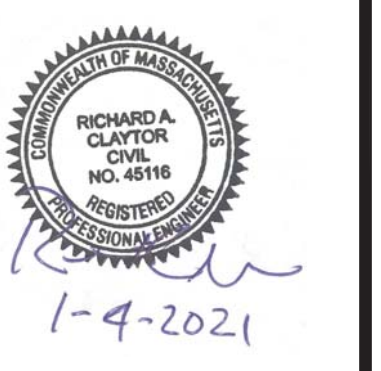
Checked By: MW
 Drawn By: MW
 Designed By: MW
 Date: JANUARY 2021

Plan Set:
**BUZZARDS BAY STORMWATER RETROFITS
 JERUSALEM ROAD - PERMITTING PLANS
 FAIRHAVEN, MASSACHUSETTS**

Plan Title:
SITE PLAN 1

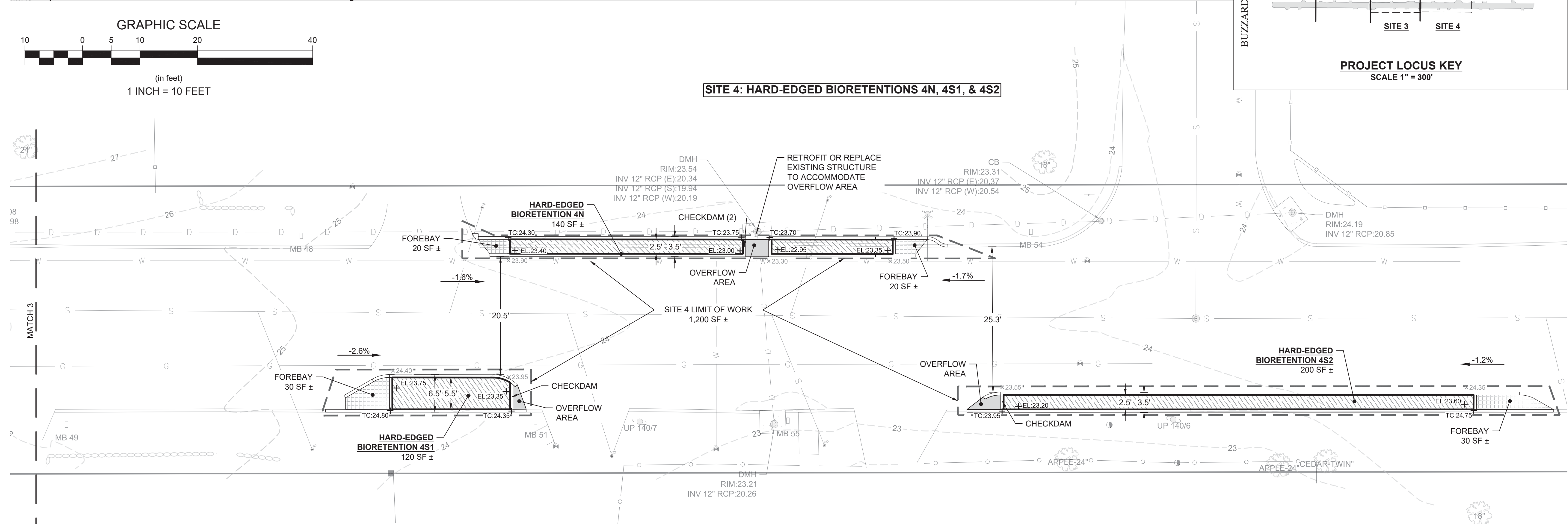
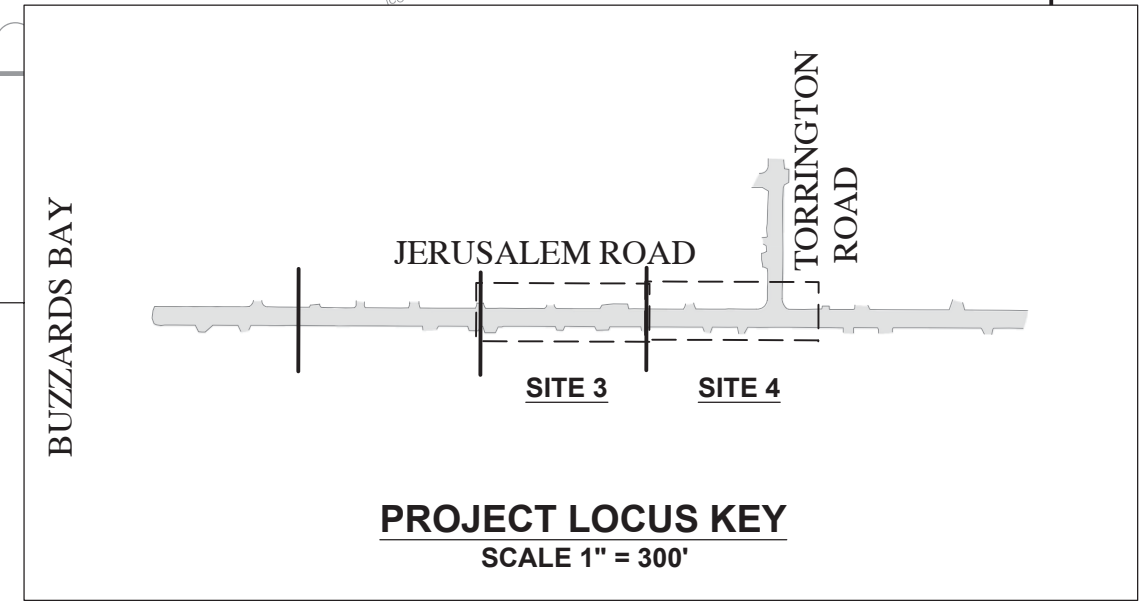
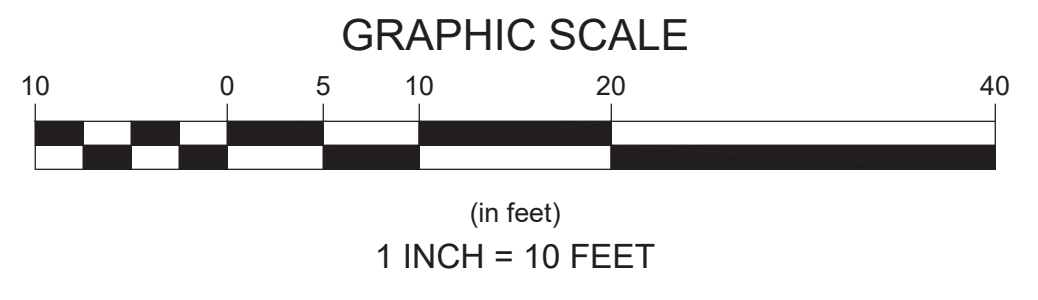
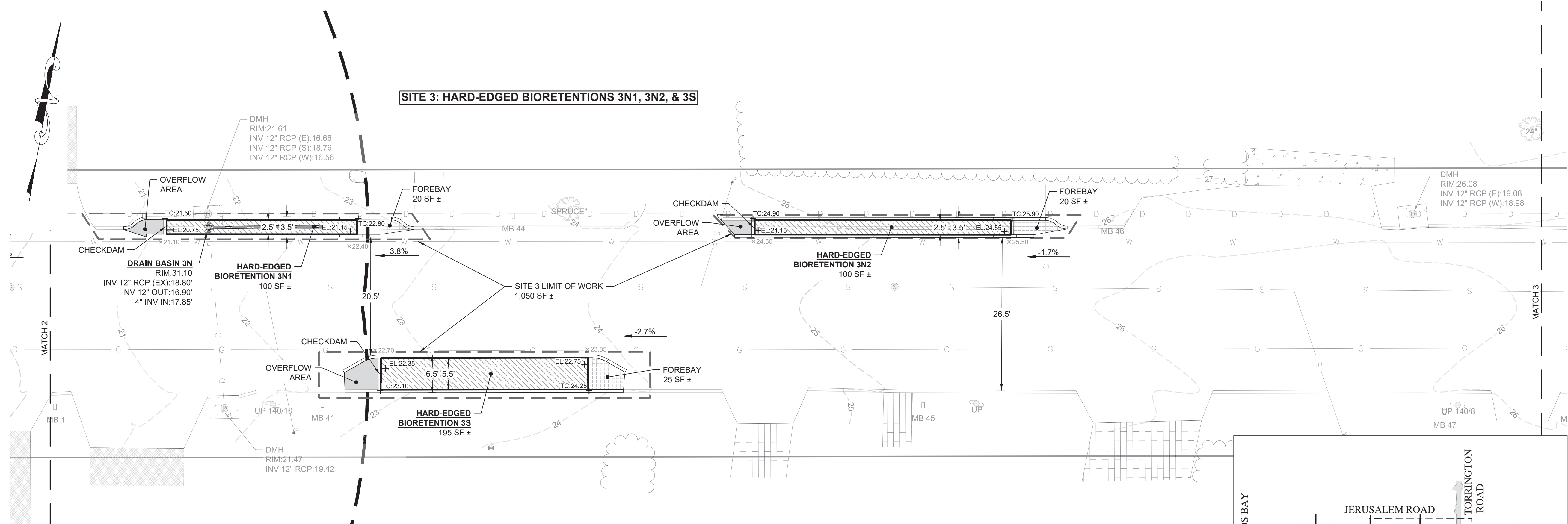
Prepared For:
**Town of Fairhaven
 Board of Public Works**
 5 Arsenic St.
 Fairhaven, MA 02719
 Phone: (508) 979-4030
 Fax: ---

Survey Provided By:
Horsley Witten Group, Inc.
 90 Route 6A
 Sandwich, MA 02563
 Phone: (508) 833-6600
 Fax: (508) 833-3150
 Dated: N/A



Project Number: 20057
 Sheet: 6 of 10
 Sheet Number: C-6

last modified: 01/03/21 by ml H:\Projects\2020\20057 SW Remediation Projects Buzzards Bay\Drawings\JERUSALEM RD\20057 JERUSALEM ST.dwg



Revisions	Date	By	Appr.	Description

Horsley Witten Group, Inc.
 Sustainable Environmental Solutions
 90 Route 6A
 Sandwich, MA 02563
 Phone: (508) 833-6600 voice
 508-833-3150 fax

Checked By: MW
 Drawn By: MW
 Designed By: MW
 Date: JANUARY 2021

Plan Set:
BUZZARDS BAY STORMWATER RETROFITS
JERUSALEM ROAD - PERMITTING PLANS
FAIRHAVEN, MASSACHUSETTS

Plan Title:
SITE PLAN 2

Prepared For:
Town of Fairhaven
Board of Public Works
 5 Arsenal St.
 Fairhaven, MA 02719
 Phone: (508) 979-4030
 Fax: ---

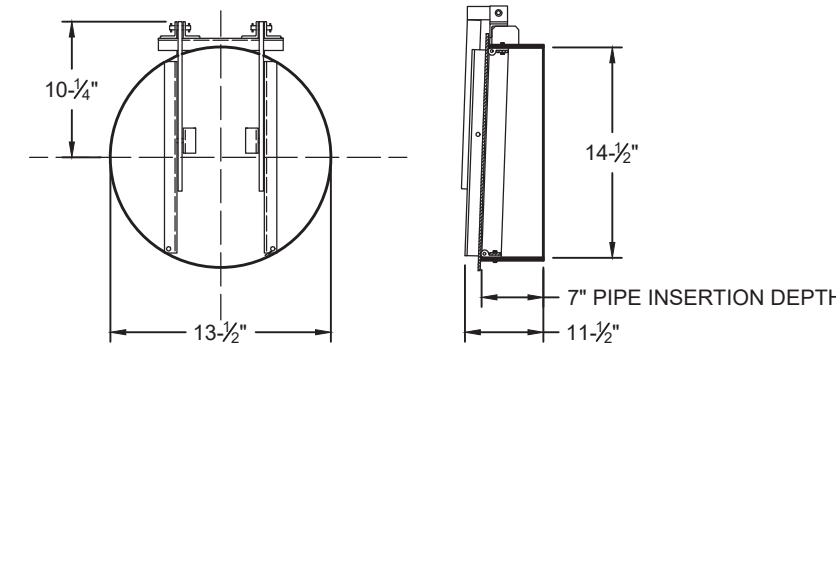
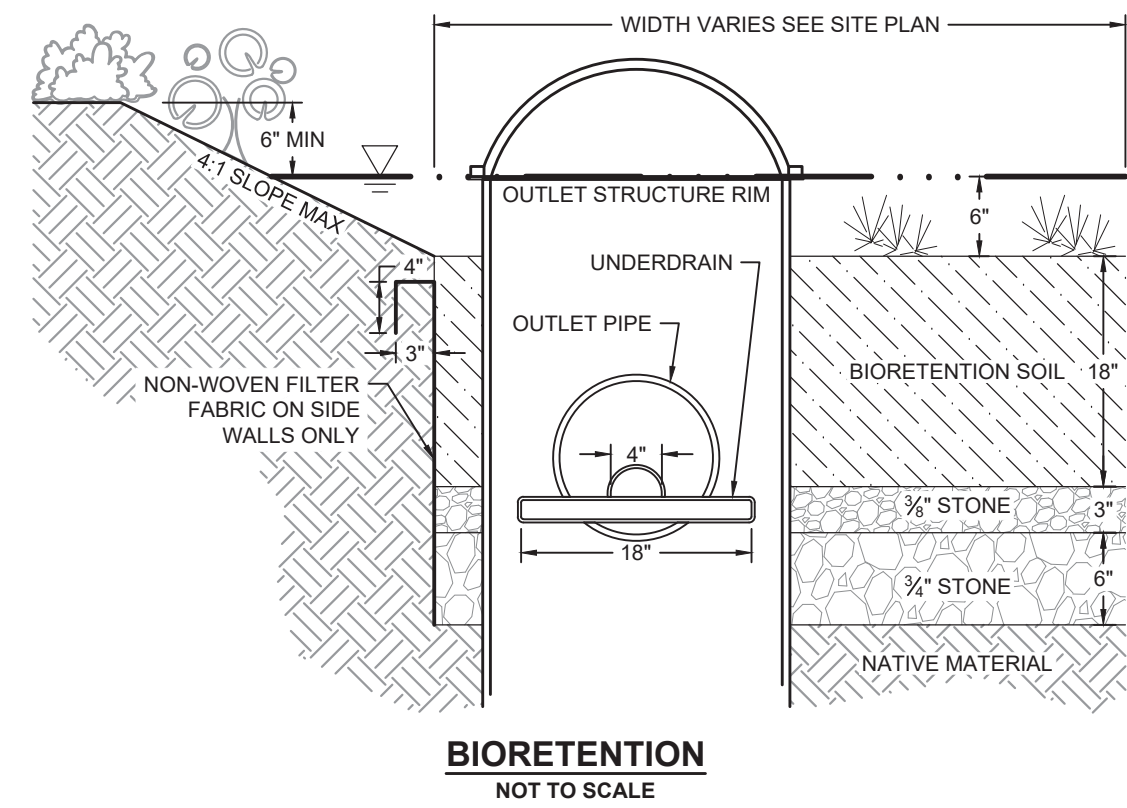
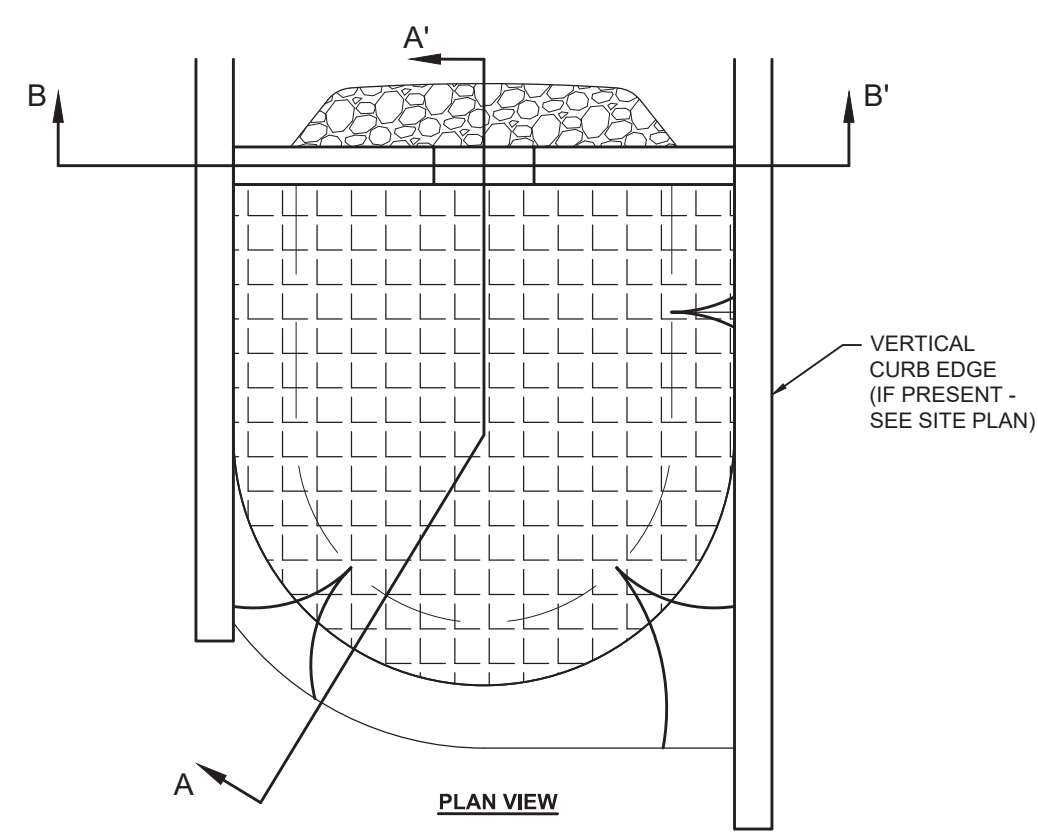
Survey Provided By:
Horsley Witten Group, Inc.
 90 Route 6A
 Sandwich, MA 02563
 Phone: (508) 833-6600
 Fax: (508) 833-3150
 Dated: N/A



Project Number: 20057
 Sheet: 7 of 10

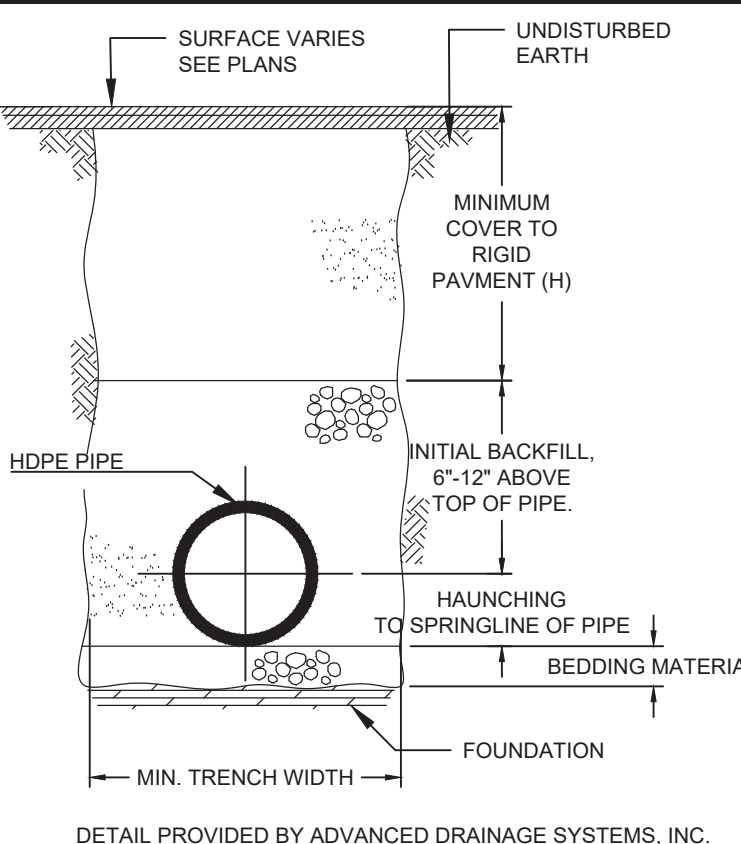
Sheet Number:
C-7

last modified: 01/03/21 printed: 01/03/21 by ml H:\Projects\2020\20057 SW Remediation Projects Buzzards Bay\Drawings\JERUSALEM RD\20057 JERUSALEM DE.dwg



NOTES:

1. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR TO EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH A FOUNDATION OF CLASS I OR II MATERIAL AS DEFINED IN ASTM D2321...



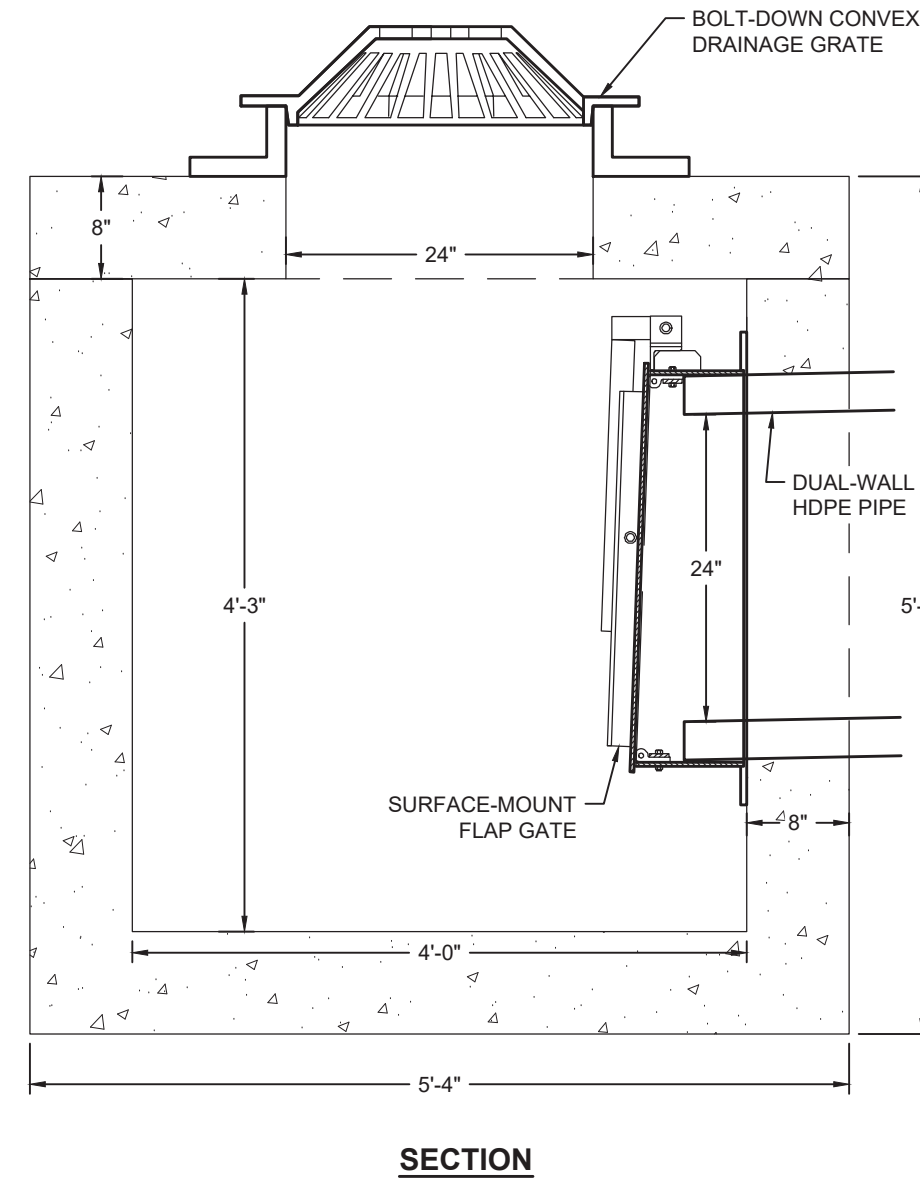
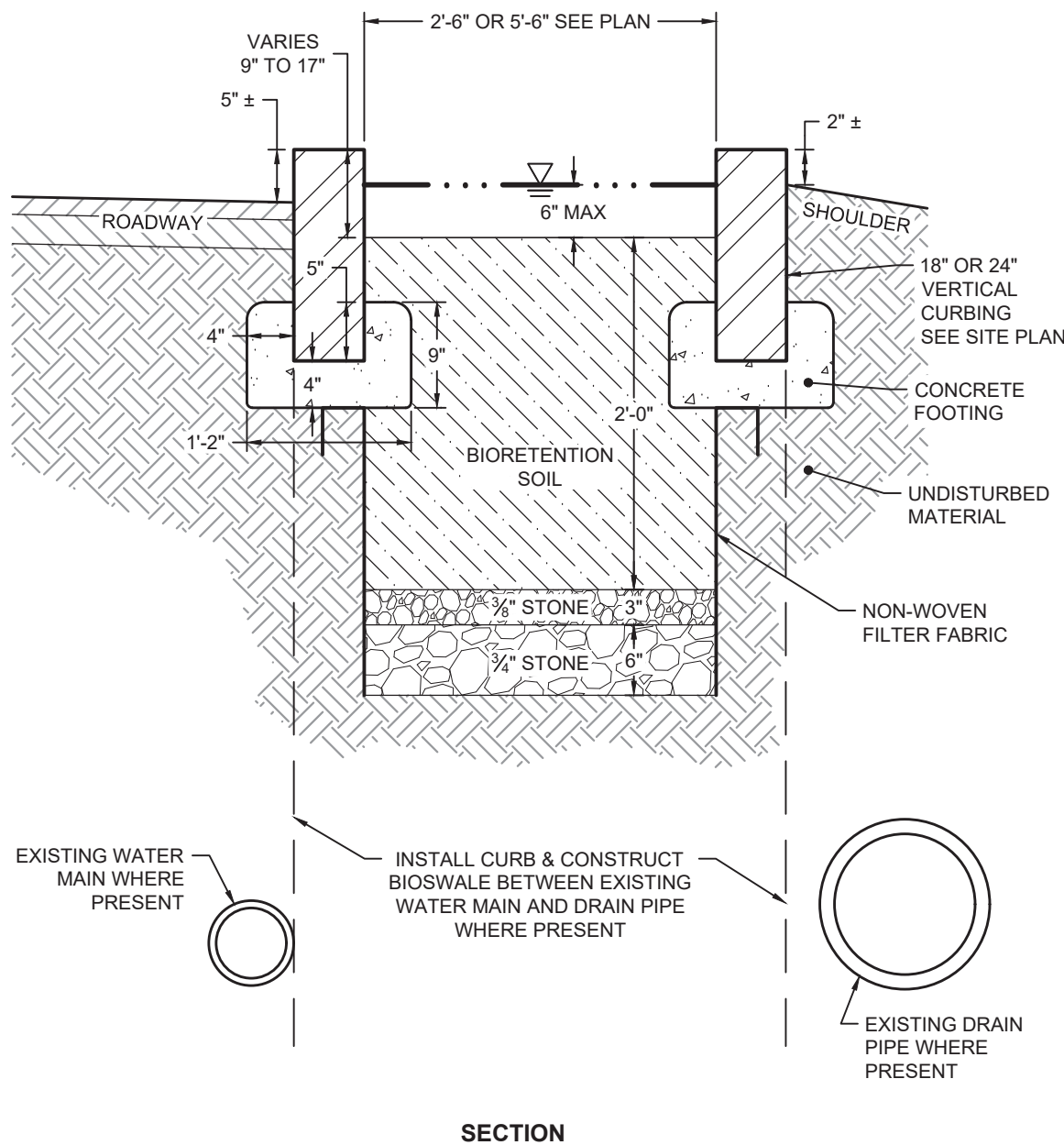
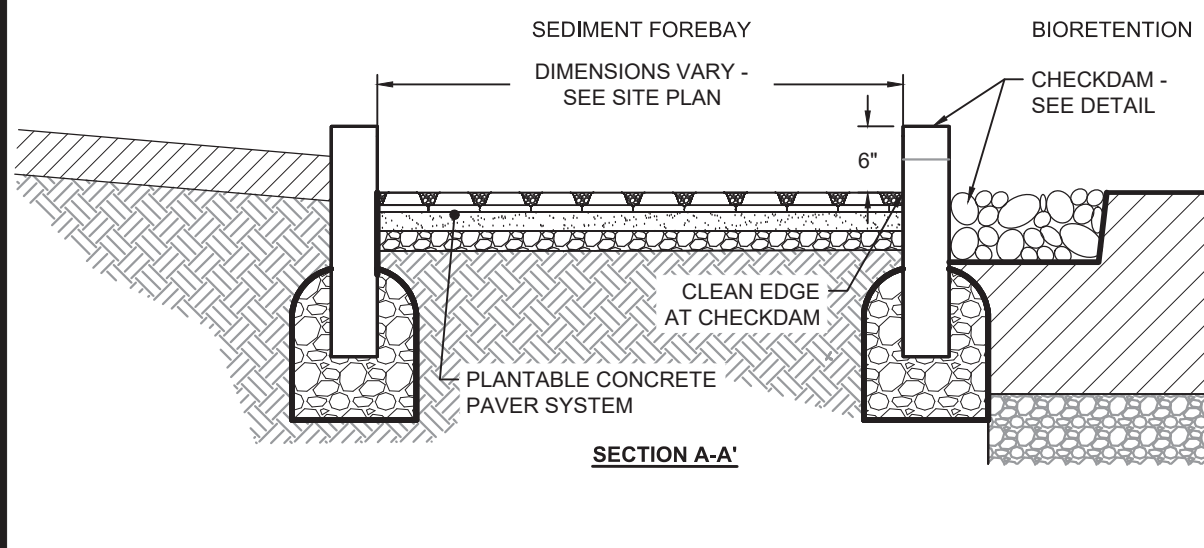
2. BEDDING, HAUNCHING AND INITIAL BACKFILL: SUITABLE MATERIAL TO CONSIST OF CLEAN, HARD PARTICLES OF GRAVEL MEETING THE FOLLOWING: SIEVE SIZE % PASSING 3/8 85-95 NO. 4 5-15 NO. 8 0-2

3. MINIMUM TRENCH WIDTHS TO BE AS FOLLOWS:

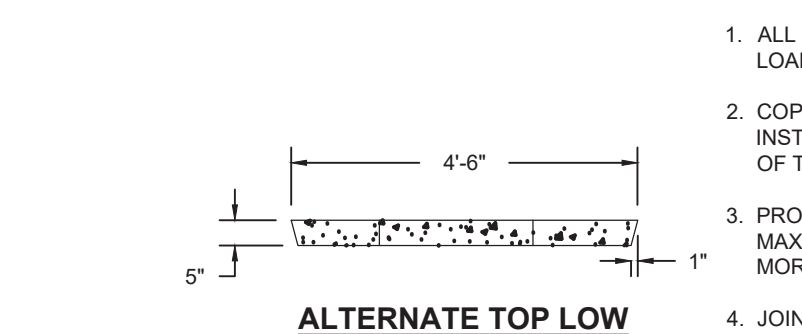
Table with 2 columns: NOMINAL TRENCH WIDTH, MIN. RECOMMENDED TRENCH WIDTH. Values range from 8 to 18 inches.

4. MINIMUM COVER: MINIMUM RECOMMENDED DEPTHS OF COVER FOR VARIOUS LIVE LOADING CONDITIONS ARE SUMMARIZED IN THE FOLLOWING TABLE...

* TOP OF PIPE TO BOTTOM OF BITUMINOUS PAVEMENT THE MINIMUM COVER FOR A HDPE PIPE IS 1'-0" FOR H-20 TRAFFIC LOADS IF INSTALLED IN ACCORDANCE WITH AASHTO SECTION 30...



ALTERNATE TOP LOW PROFILE SLAB

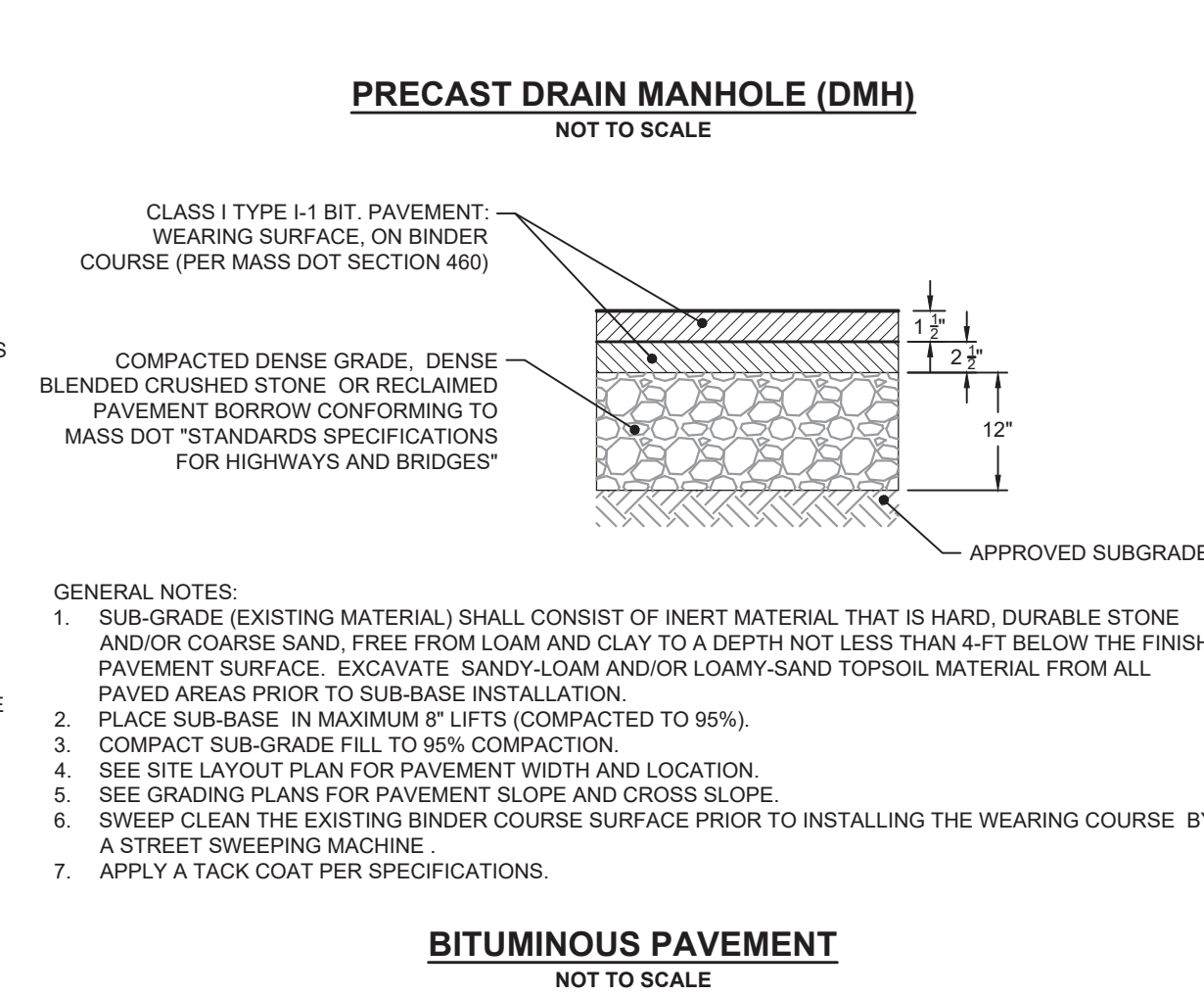
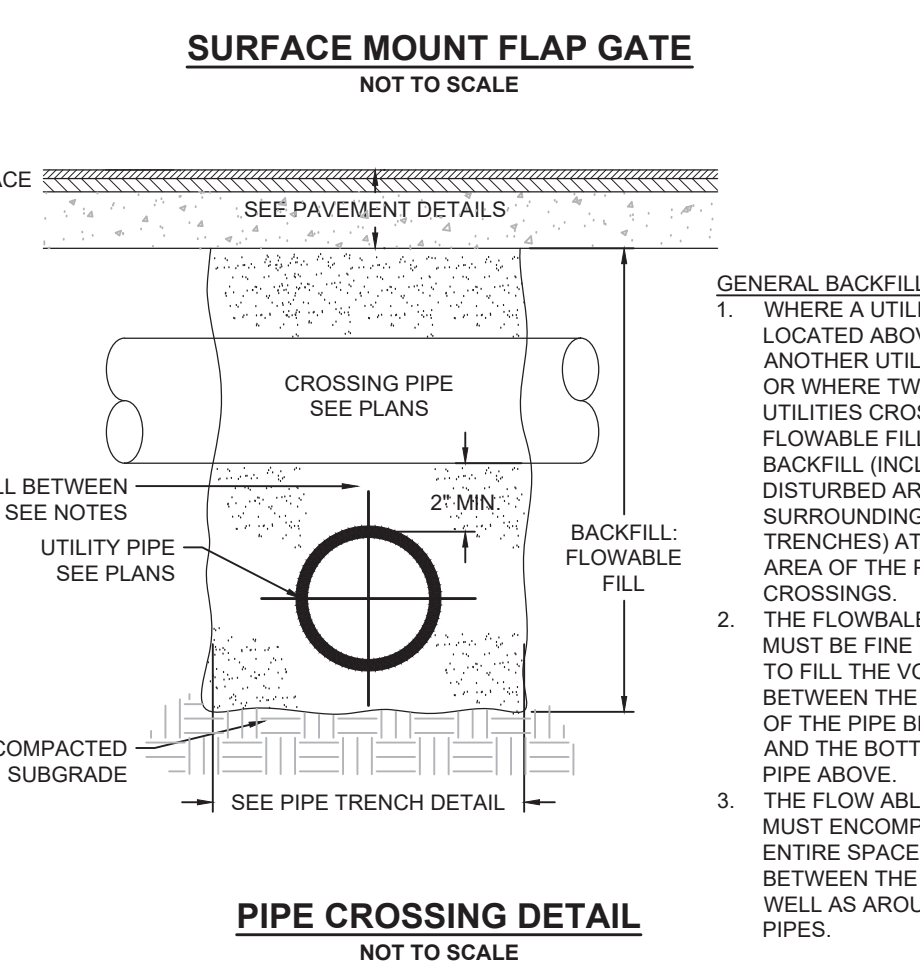
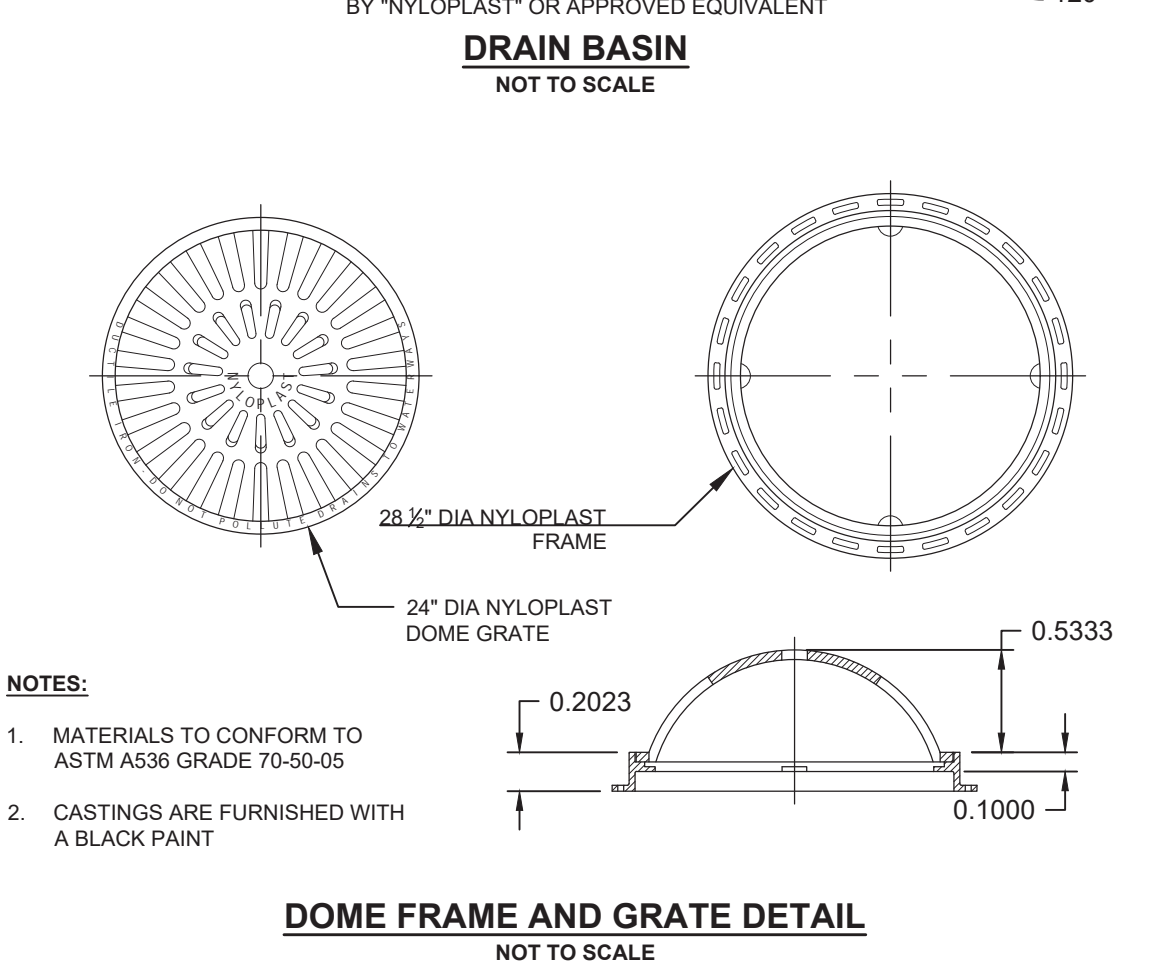
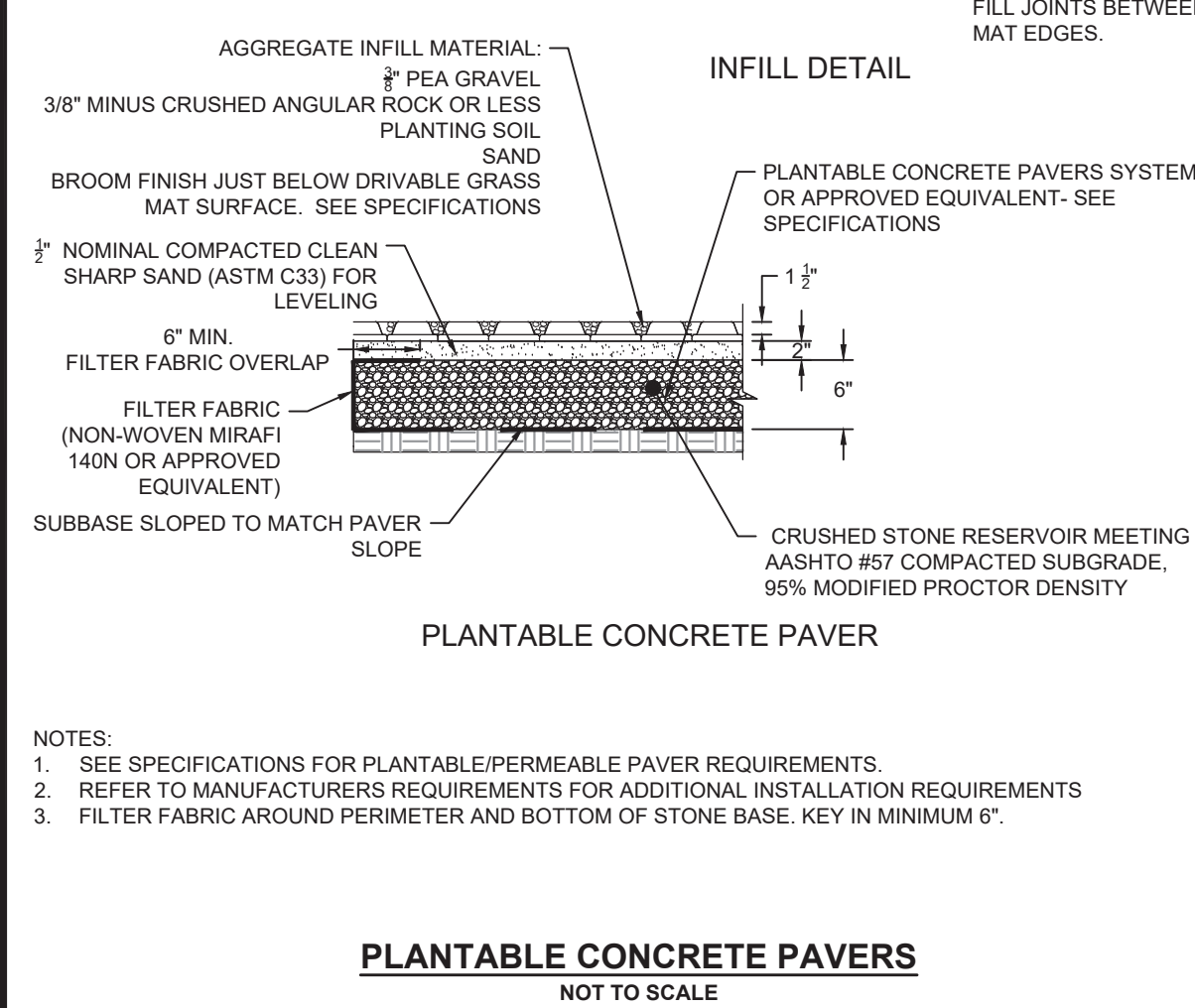
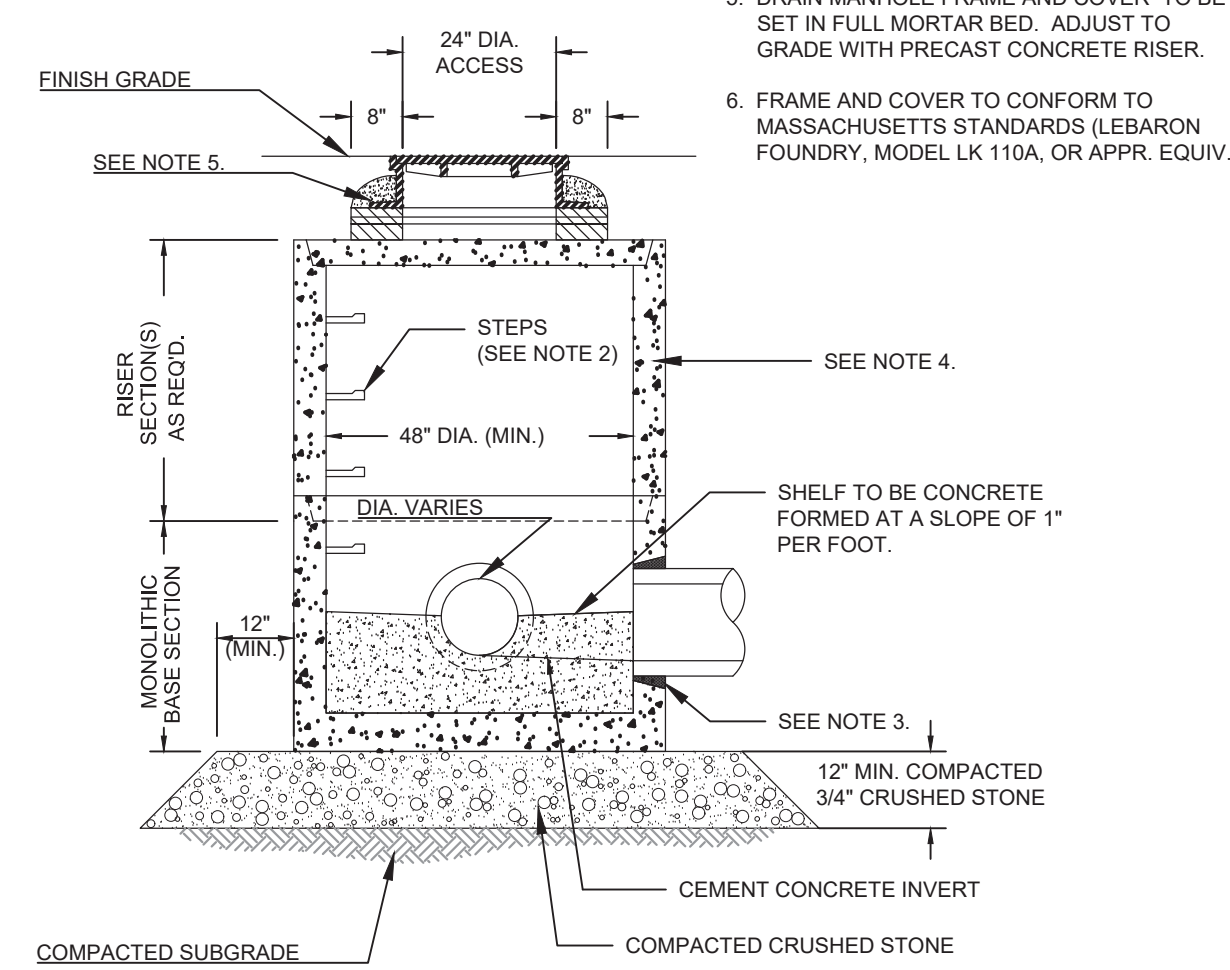
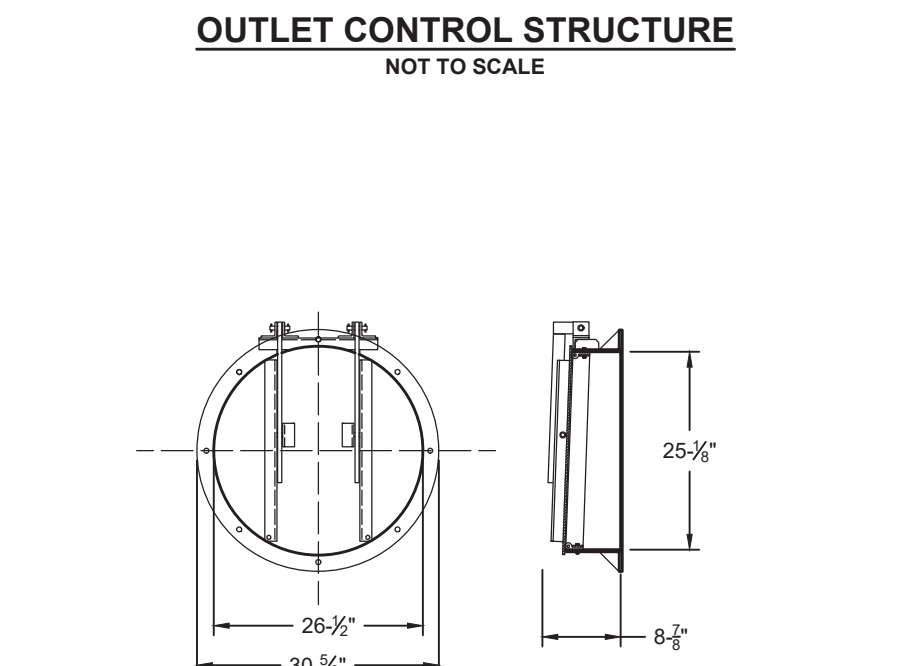
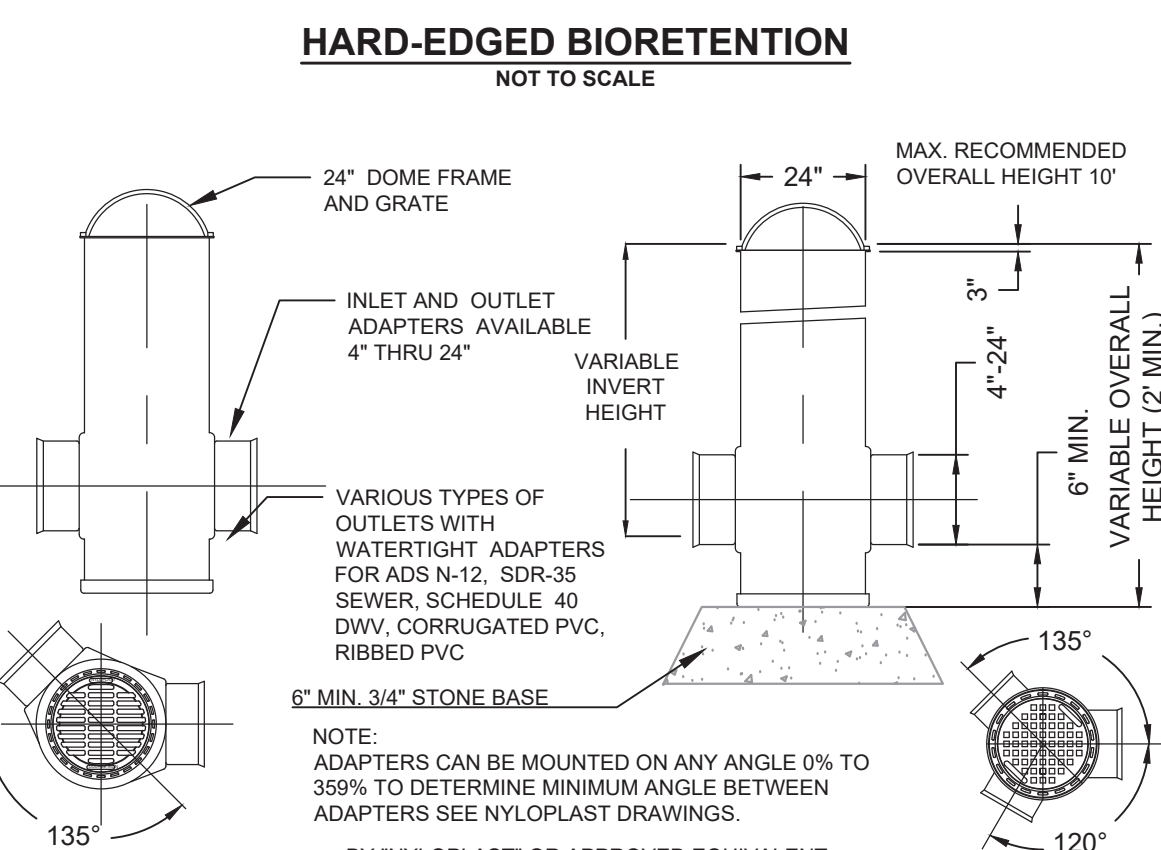
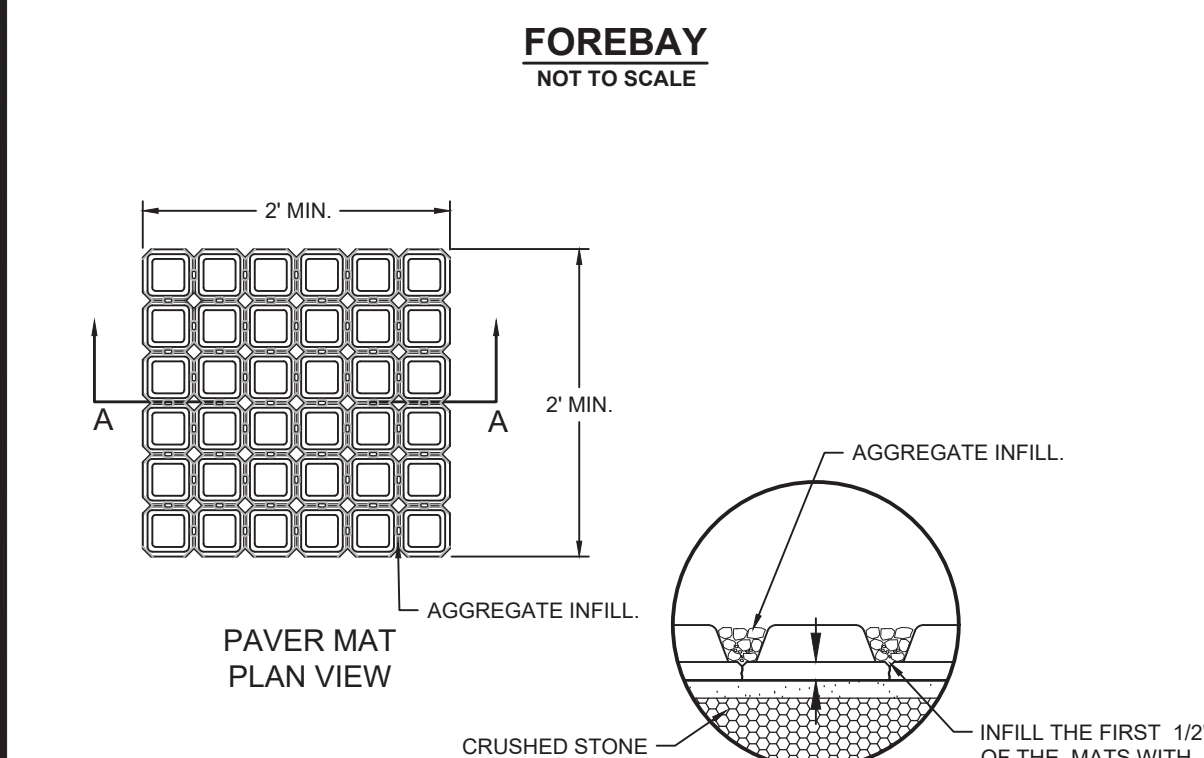


NOTES:

- 1. ALL SECTIONS TO BE DESIGNED FOR HS-20 LOADING. 2. COPOLYMER MANHOLE STEPS TO BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE. 3. PROVIDE 1/2" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS. 4. JOINT SEALANT BETWEEN PRECAST SECTIONS TO BE PERFORMED BUTYL RUBBER. 5. DRAIN MANHOLE FRAME AND COVER TO BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH PRECAST CONCRETE RISER. 6. FRAME AND COVER TO CONFORM TO MASSACHUSETTS STANDARDS LEBARON FOUNDRY, MODEL LK 110A, OR APPR. EQUIV.

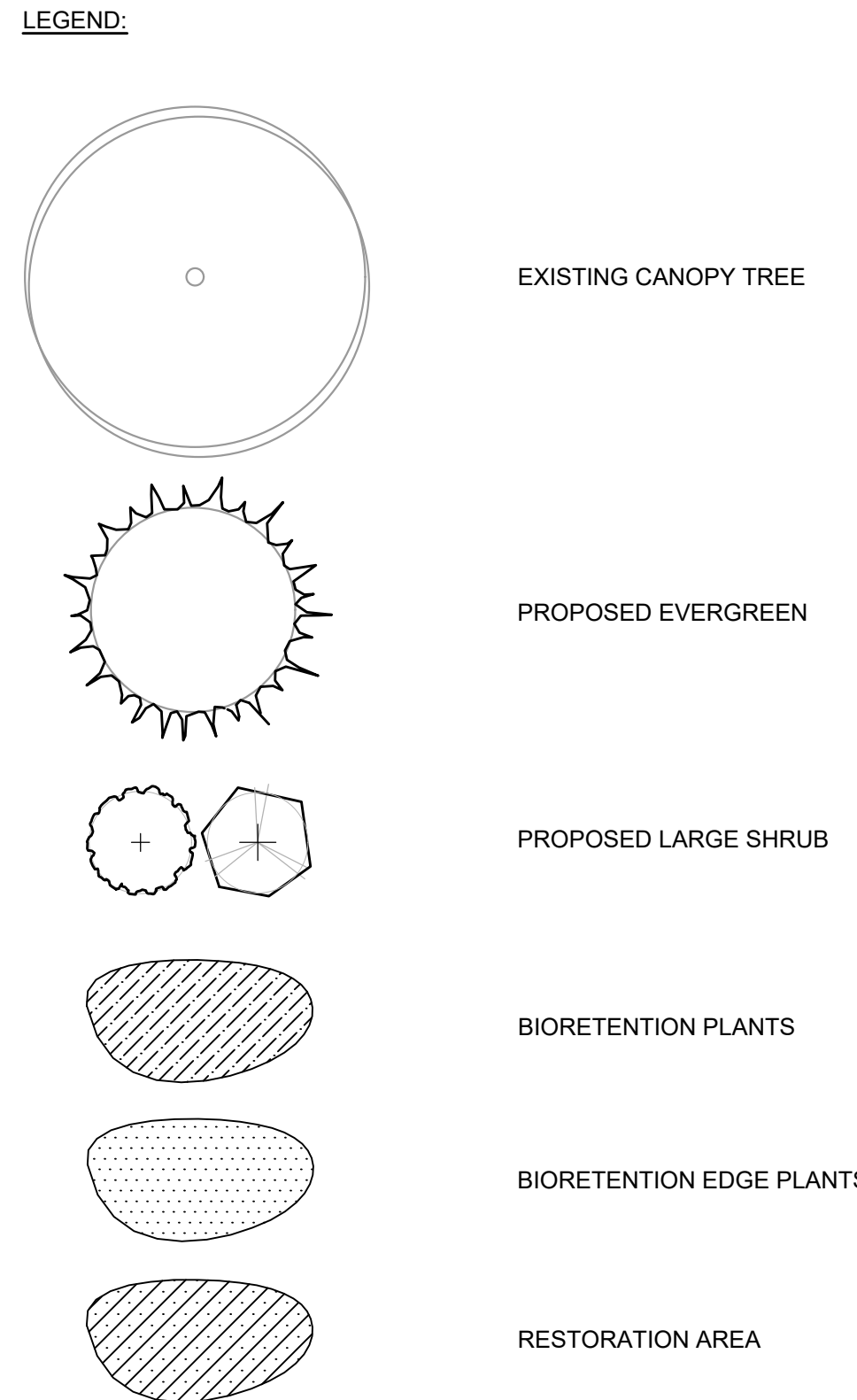
NOTES: 1. INSTALL PLANTABLE CONCRETE PAVER SYSTEM PER MANUFACTURERS REQUIREMENTS. 2. SEE SPECIFICATIONS FOR ADDITIONAL PAVER REQUIREMENTS. 3. SHAPE FOREBAY AS REQUIRED TO PROVIDE MIN. 1/2" SIDE SLOPE DEPTH. 4. LANDSCAPE EDGING: HEAVY DUTY STEEL LANDSCAPE EDGING (1/2" THICKNESS) WITH NATURAL FINISH. 5. SEE PLANS FOR DIMENSIONS, GRADING, AND ELEVATIONS FOR FOREBAY.

NOTES: 1. EXISTING WATER MAIN AND DRAIN LINE PRESENT ONLY ON NORTH SIDE OF JERUSALEM ROAD. 2. INSTALL FILTER FABRIC ONLY ON EXCAVATION SIDE WALLS. DO NOT APPLY FABRIC TO BOTTOM. 3. SWALE LONGITUDINAL SLOPE NOT TO EXCEED 48:1 (2% ±). 4. SEE SPECS FOR BIO FILTER MEDIA REQUIREMENTS. 5. SEE LANDSCAPE PLANS FOR PLANTING DETAILS.

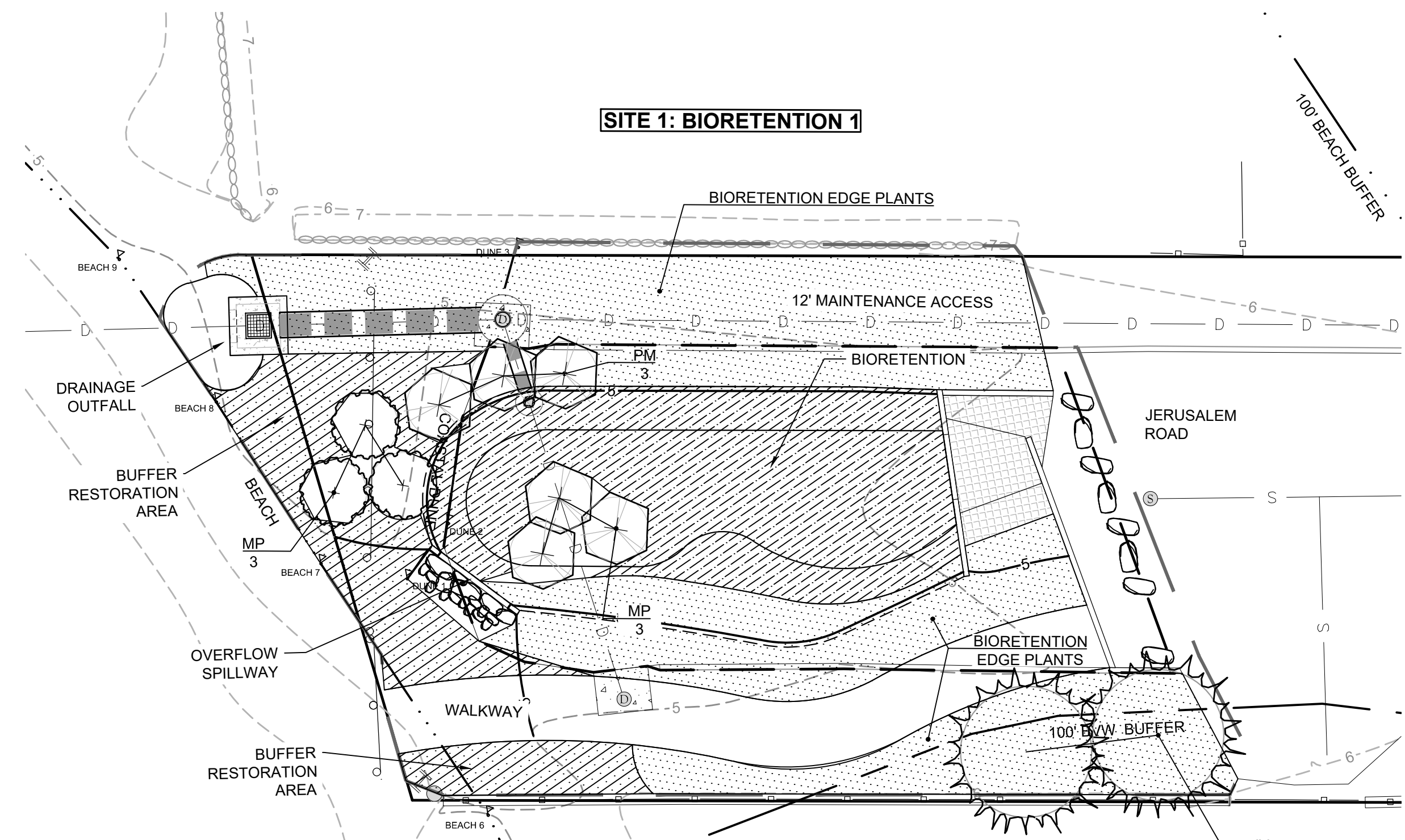


Project information including Revisions table, Project Number (20057), Sheet (8 of 10), and Sheet Number (C-8). Includes logos for Horsley Witten Group, Inc. and Town of Fairhaven Board of Public Works.

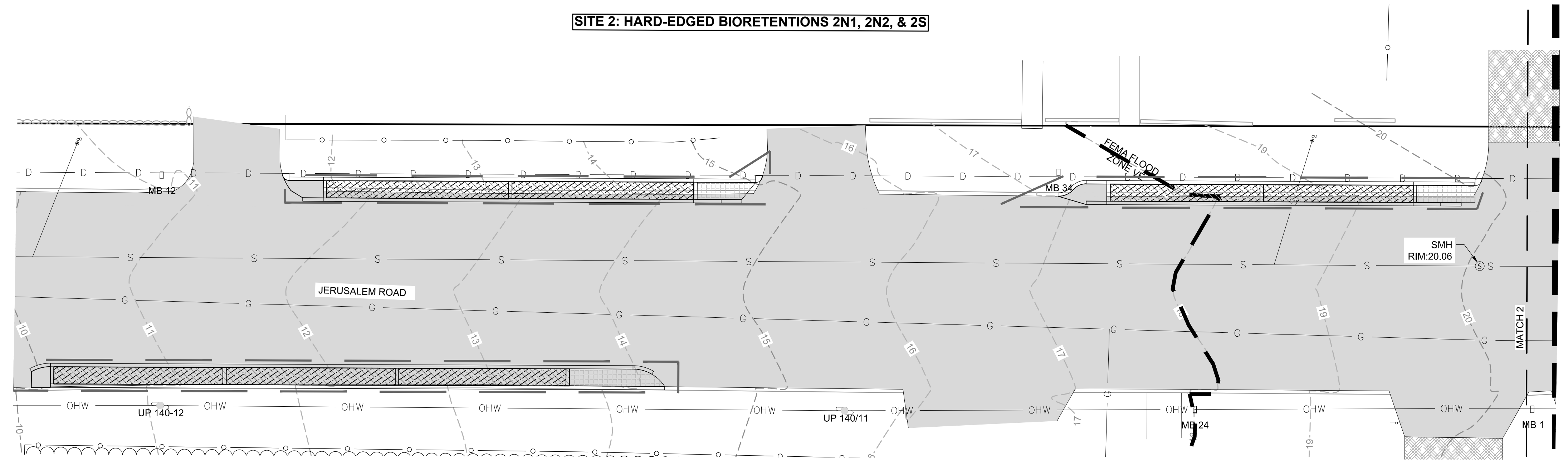
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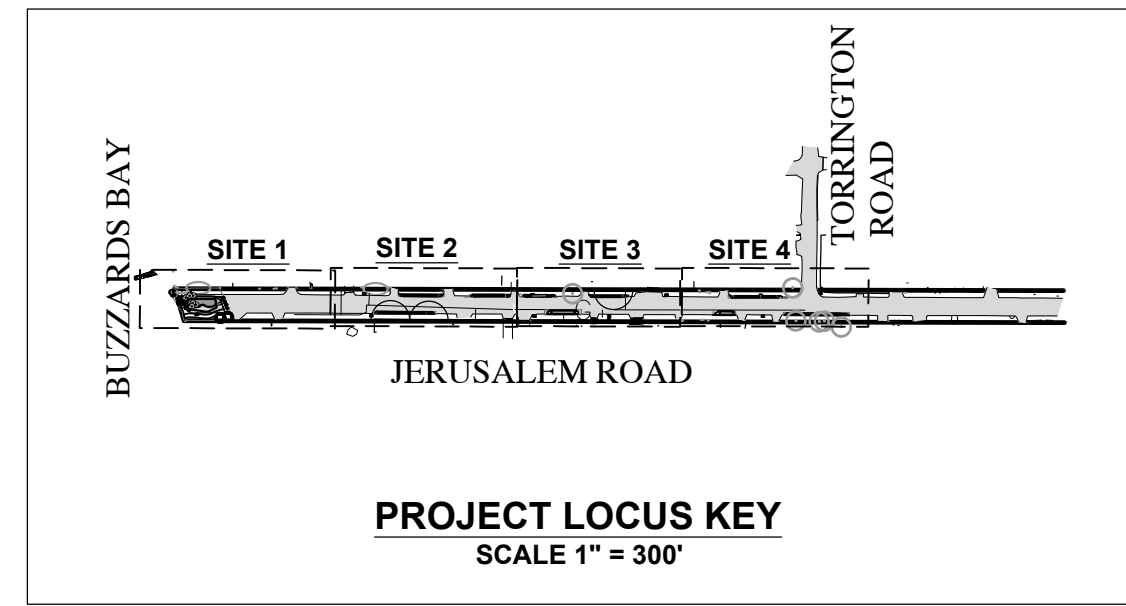
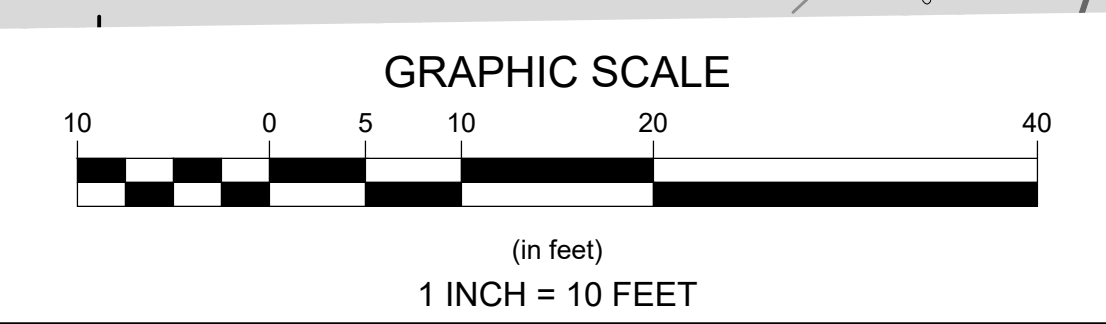
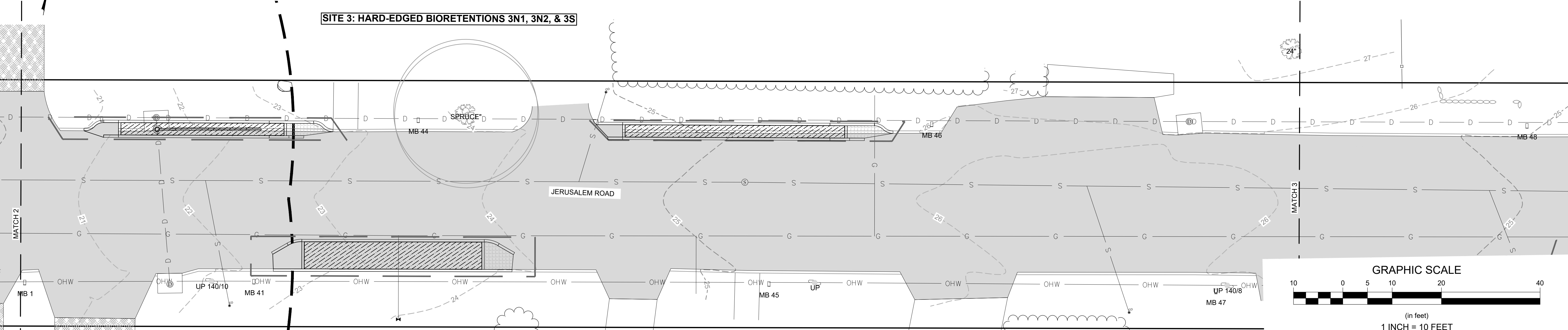
Key	Botanical Name	Common Name	Size	Spacing	Notes
Trees & Shrubs					
JV	<i>Juniperus Virginiana</i>	Eastern Red Cedar	4' B&B	12' O.C.	
MP	<i>Myrica pensylvanica</i>	Northern Bayberry	#5	6' O.C.	
PM	<i>Prunus maritima</i>	Beach Plum	3/4' B&B	6' O.C.	
Bioretention Plants					
ES	<i>Eragrostis spectabilis</i>	Purple Lovegrass	#1	24" O.C.	
JT	<i>Juncus tenuis</i>	Path Rush	#1	12" O.C.	
LJ	<i>Lathyrus japonicus</i>	Beach pea	#1	18" O.C.	
LC	<i>Limonium caolinianum</i>	Sea lavender	#1	24" O.C.	
PV	<i>Panicum virgatum</i>	Switch Grass	#1	24" O.C.	
SS	<i>Schizachyrium scoparium</i>	Little Bluestem	#1	24" O.C.	
SG	<i>Solidago sempervirens</i>	Seaside Goldenrod	#1	18" O.C.	
Bioretention Edge					
AB	<i>Ammophila breviflulata</i>	American Beach Grass	Culms	12" O.C.	
JT	<i>Juncus tenuis</i>	Path Rush	Plugs	12" O.C.	
SS	<i>Schizachyrium scoparium</i>	Little Bluestem	Plugs	12" O.C.	
SG	<i>Solidago sempervirens</i>	Seaside Goldenrod	Plugs	12" O.C.	
Buffer Restoration Plants					
AB	<i>Ammophila breviflulata</i>	American Beach Grass	Culms	12" O.C.	Winter Planting
LJ	<i>Lathyrus japonicus</i>	Beach pea	#1	18" O.C.	
SG	<i>Solidago sempervirens</i>	Seaside Goldenrod	#1	18" O.C.	
SP	<i>Spartina patens</i>	Saltmeadow Cordgrass	Plugs	12" O.C.	



SITE 2: HARD-EDGED BIORETENTIONS 2N1, 2N2, & 2S



SITE 3: HARD-EDGED BIORETENTIONS 3N1, 3N2, & 3S



Revisions

Rev	Date	By	Appr	Description
1				

Horsley Witten Group, Inc.
 Sustainable Environmental Solutions
 90 Route 6A
 Sandwich, MA 02563
 508-833-6600 voice
 508-833-3150 fax

Checked By: HC
 Designated By: EB
 Drawn By: EB
 Date: JANUARY 2021

Plan Title:
**BUZZARDS BAY STORMWATER RETROFITS
 JERUSALEM ROAD - PERMITTING PLANS
 FAIRHAVEN, MASSACHUSETTS**

Plan Title:
PLANTING PLAN (1)

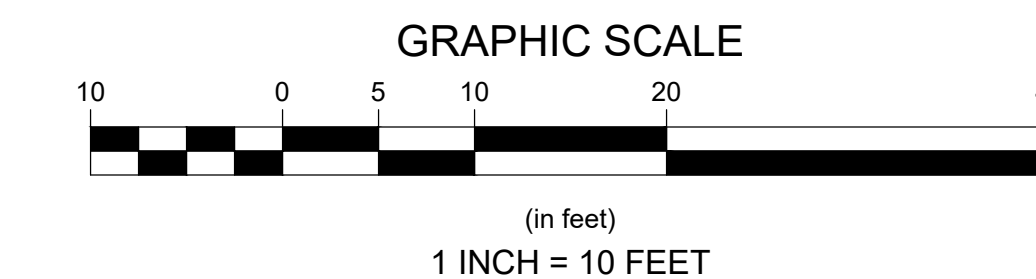
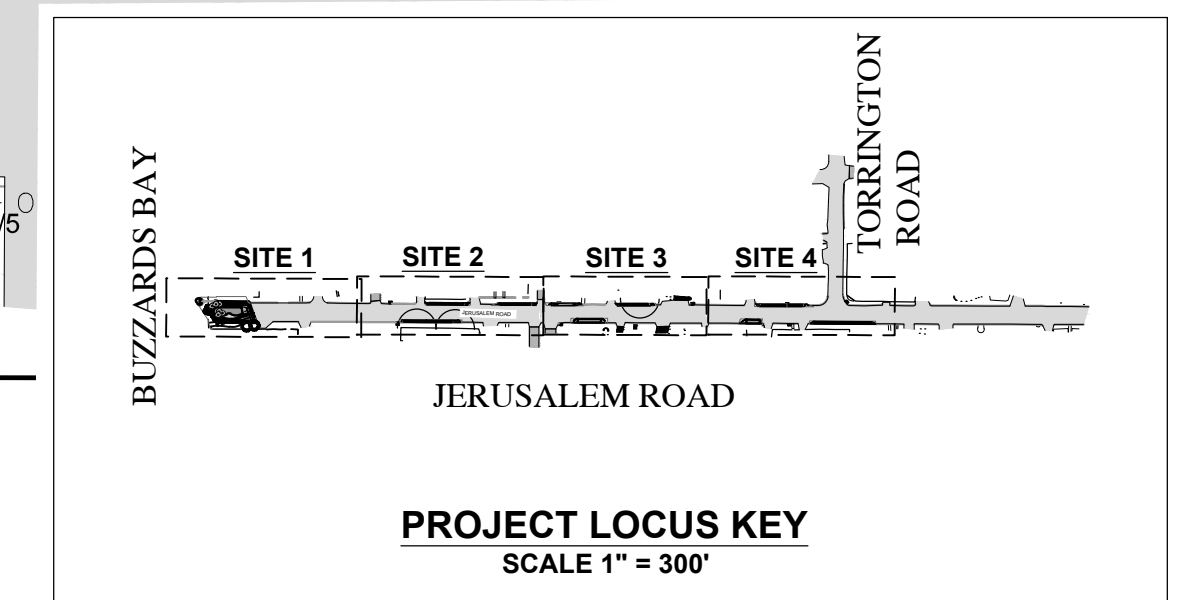
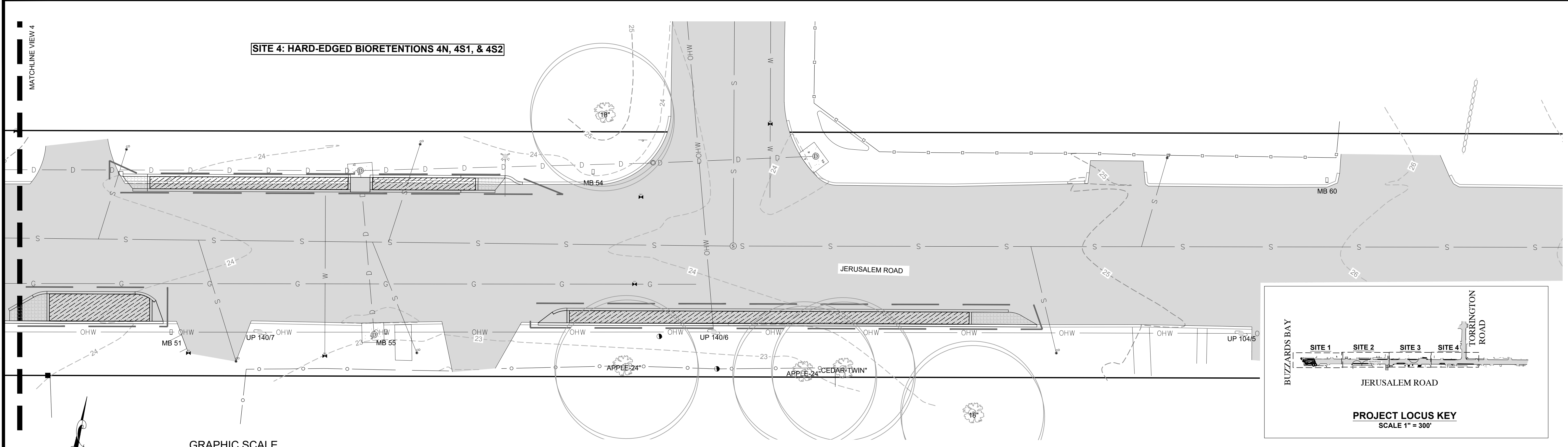
Prepared For:
**Town of Fairhaven Board
 of Public Works**
 5 Arsenal St
 Fairhaven, MA 02719
 Phone: (508) 979-4030
 Fax: ---

Survey Provided By:
Horsley Witten Group, Inc.
 90 Route 6A
 Sandwich, MA 02563
 Phone: (508) 833-6600
 Fax: (508) 833-3150
 Date: N/A



Project Number: 20057
 Sheet: 9 of 10
 Sheet Number: L-9

last modified: 01/04/21 printed: 01/04/21 by eb K:\Projects\2020\20057 SW Remediation Projects Buzzards Bay\Drawings\JERUSALEM RD\20057 JERUSALEM LA.dwg



GENERAL PLANTING NOTES:

1. THE FOLLOWING NOTES ARE PROVIDED AS GENERAL PLANTING GUIDELINES ONLY. THOROUGHLY REVIEW THE PROJECT SPECIFICATIONS FOR ALL LANDSCAPE REQUIREMENTS PRIOR TO THE COMMENCEMENT OF ANY LANDSCAPE WORK. SUBMIT IN WRITING TO THE LANDSCAPE ARCHITECT ANY QUESTIONS OR CLARIFICATIONS REQUIRED AT A MINIMUM OF 30 DAYS PRIOR TO ORDERING ANY MATERIALS OR BEGINNING ANY LANDSCAPE CONSTRUCTION.
2. SUBMIT TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL ALL REQUIRED LANDSCAPE SUBMITTALS AS DESCRIBED IN THE SPECIFICATIONS INCLUDING A PLANT LIST WITH PLANT SIZE AND QUANTITIES TO BE ORDERED PRIOR TO DELIVERY TO THE PROJECT SITE.
3. FURNISH AND INSTALL ALL PLANTS AS SHOWN ON THE DRAWINGS AND IN THE SIZE AND QUANTITIES SPECIFIED ON THE PLANTING SCHEDULE. PLANT SUBSTITUTION SELECTION MUST BE APPROVED BY BIOLOGIST OR LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
4. ALL PLANTS TO COMPLY WITH APPLICABLE REQUIREMENTS OF ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK," LATEST EDITION, PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION INC.
5. PLANTS TO BE GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR AT LEAST TWO (2) YEARS. USE HEALTHY NURSERY GROWN PLANTS, FREE OF DISEASE, INSECTS, AND PESTS, EGGS OR LARVAE, AND HAVE A WELL DEVELOPED ROOT SYSTEM.
6. INSTALL PLANTS WITHIN ONE (1) WEEK OF PURCHASE. IF PLANTS ARE TO BE STORED AT THE SITE PRIOR TO PLANTING, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THEY ARE PROPERLY MAINTAINED, WATERED, AND REMAIN HEALTHY.
7. PROCEED WITH PLANTING ONLY WHEN EXISTING AND FORECASTED WEATHER CONDITIONS PERMIT. SUBMIT TO THE LANDSCAPE ARCHITECT IN WRITING THE PROPOSED PLANTING SCHEDULE. OBTAIN APPROVAL OF PLANTING SCHEDULE FROM THE LANDSCAPE ARCHITECT PRIOR TO PERFORMING ANY WORK.
8. SEASONS FOR PLANTING:

SPRING:	DECIDUOUS:	APRIL 1 TO JUNE 15
	EVERGREEN:	APRIL 1 TO JUNE 15
	PERENNIALS:	APRIL 15 TO JUNE 1
	GROUNDCOVERS:	APRIL 15 TO JUNE 1
FALL:	DECIDUOUS:	SEPTEMBER 15 TO NOVEMBER 15
	EVERGREEN:	SEPTEMBER 15 TO NOVEMBER 15
	PERENNIALS:	SEPTEMBER 15 TO NOVEMBER 15
	GROUNDCOVERS:	SEPTEMBER 15 TO NOVEMBER 15
9. PLANTING UNDER FROZEN CONDITIONS IN EITHER THE SPRING OR FALL WILL NOT BE PERMITTED. PLANTING BEFORE OR AFTER THE ABOVE REFERENCED PLANTING DATES WILL INCREASE THE LIKELIHOOD OF PLANT OR GRASS SEED ESTABLISHMENT FAILURE. ANY DEVIATION FROM THE ABOVE REFERENCED PLANTING DATES IS UNDERTAKEN AT SOLE RISK OF THE CONTRACTOR AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ANY ADDITIONAL MAINTENANCE AND WATERING WHICH MAY BE REQUIRED TO ENSURE SATISFACTORY PLANT AND SEED ESTABLISHMENT.
10. FURNISH ONE YEAR MANUFACTURER WARRANTY FOR TREES, PLANTS, AND GROUND COVER AGAINST DEFECTS INCLUDING DEATH AND UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM LACK OF ADEQUATE MAINTENANCE, NEGLIGENCE, OR ABUSE BY OWNER, OR ABNORMAL WEATHER CONDITIONS UNUSUAL FOR WARRANTY PERIOD. THE DATE OF FINAL ACCEPTANCE OF ALL COMPLETED PLANTING WORK ESTABLISHES THE END OF INSTALLATION AND INITIAL MAINTENANCE PERIOD AND THE COMMENCEMENT OF THE GUARANTEE PERIOD.
11. INSPECT ALL AREAS TO BE PLANTED OR SEEDED PRIOR TO STARTING ANY LANDSCAPE WORK. REPORT ANY DEFECTS SUCH AS INCORRECT GRADING, INCORRECT SUBGRADE ELEVATIONS OR DRAINAGE PROBLEMS, ETC. TO THE LANDSCAPE ARCHITECT AND ENGINEER PRIOR TO BEGINNING WORK.

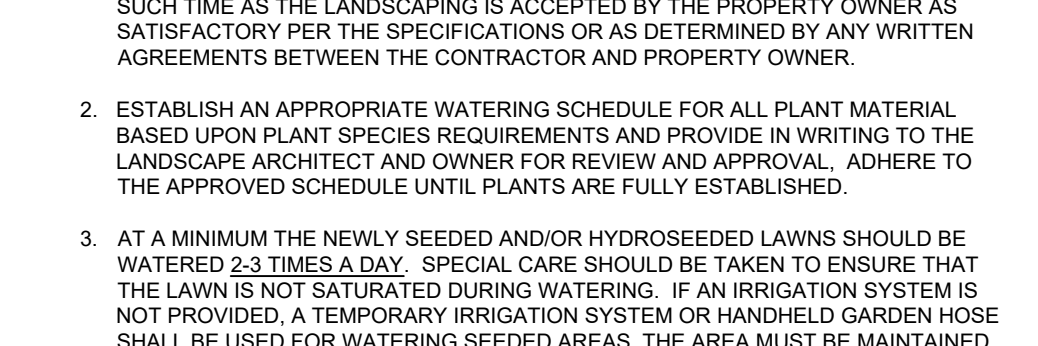
WATERING NOTES:

1. PROVIDE PROPER PLANT CARE, MAINTENANCE AND WATERING ON SITE UNTIL SUCH TIME AS THE LANDSCAPING IS ACCEPTED BY THE PROPERTY OWNER AS SATISFACTORY PER THE SPECIFICATIONS OR AS DETERMINED BY ANY WRITTEN AGREEMENTS BETWEEN THE CONTRACTOR AND PROPERTY OWNER.
2. ESTABLISH AN APPROPRIATE WATERING SCHEDULE FOR ALL PLANT MATERIAL BASED UPON PLANT SPECIES REQUIREMENTS AND PROVIDE IN WRITING TO THE LANDSCAPE ARCHITECT AND OWNER FOR REVIEW AND APPROVAL. ADHERE TO THE APPROVED SCHEDULE UNTIL PLANTS ARE FULLY ESTABLISHED.
3. AT A MINIMUM THE NEWLY SEEDED AND/OR HYDROSEEDED LAWNS SHOULD BE WATERED 2-3 TIMES A DAY. SPECIAL CARE SHOULD BE TAKEN TO ENSURE THAT THE LAWN IS NOT SATURATED DURING WATERING. IF AN IRRIGATION SYSTEM IS NOT PROVIDED, A TEMPORARY IRRIGATION SYSTEM OR HANDHELD GARDEN HOSE SHALL BE USED FOR WATERING SEEDED AREAS. THE AREA MUST BE MAINTAINED CONSISTENTLY MOIST FOR THE BEST GERMINATION RESULTS. ADDITIONAL WATERING WILL BE REQUIRED IF PLANTING AND SEEDING OCCUR OUTSIDE OF THE RECOMMENDED PLANTING SEASONS.

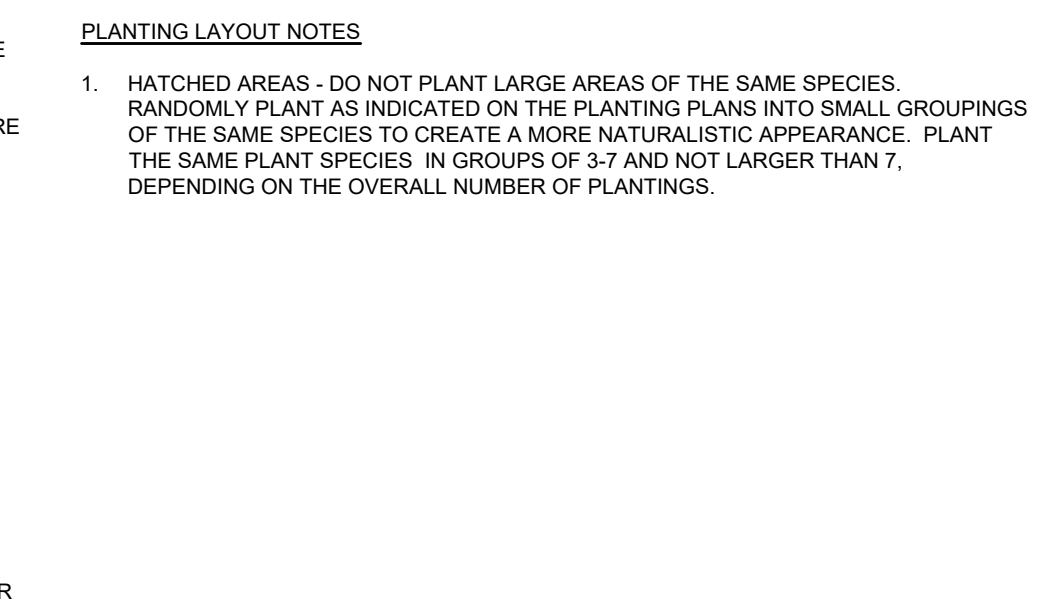
PLANTING LAYOUT NOTES:

1. HATCHED AREAS - DO NOT PLANT LARGE AREAS OF THE SAME SPECIES. RANDOMLY PLANT AS INDICATED ON THE PLANTING PLANS INTO SMALL GROUPINGS OF THE SAME SPECIES TO CREATE A MORE NATURALISTIC APPEARANCE. PLANT THE SAME PLANT SPECIES IN GROUPS OF 3-7 AND NOT LARGER THAN 7, DEPENDING ON THE OVERALL NUMBER OF PLANTINGS.
2. ALL AREAS THAT ARE DISTURBED AND/OR GRADED DURING CONSTRUCTION ARE TO BE BROUGHT TO FINISHED GRADE WITH AT LEAST 4" MINIMUM DEPTH OF GOOD QUALITY LOAM AND SEEDED WITH A QUICK GERMINATING GRASS SEED SUCH AS NEW ENGLAND EROSION CONTROL RESTORATION MIX OR AS SPECIFIED ON THE PLANS.
3. PRIOR TO THE PLACEMENT OF TOP SOIL, LOOSEN THE SUBGRADE OF ALL PROPOSED SEEDED AREAS TO A DEPTH OF 6" AND RAKE TO REMOVE STONES LARGER THAN 1 INCH, STICKS, ROOTS, RUBBISH AND OTHER EXTRANEOUS MATTER AND LEGALLY DISPOSE TO AN OFF SITE LOCATION.
4. DO NOT SPREAD TOPSOIL IF THE SUBGRADE IS FROZEN, EXCESSIVELY WET, COMPACTED OR NOT PROPERLY PREPARED PER THE NOTES AND SPECIFICATIONS.

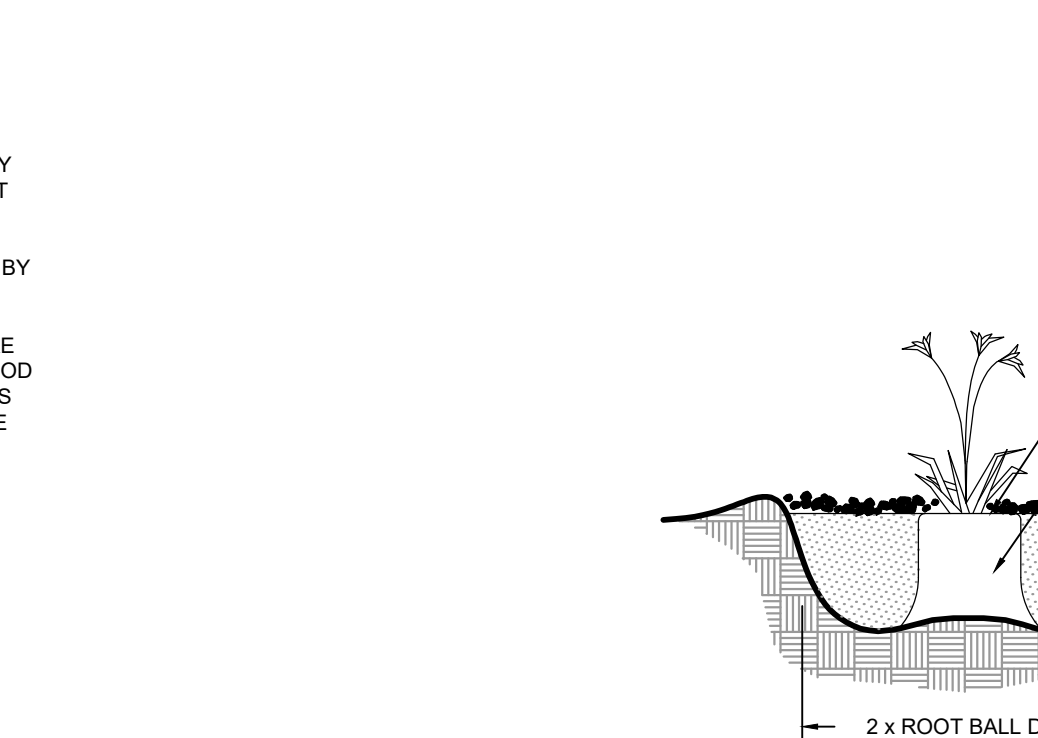
CONTAINER PLANT ROOTBALL TREATMENT



SHRUB PLANTING DETAIL



PERENNIAL PLANTING DETAIL



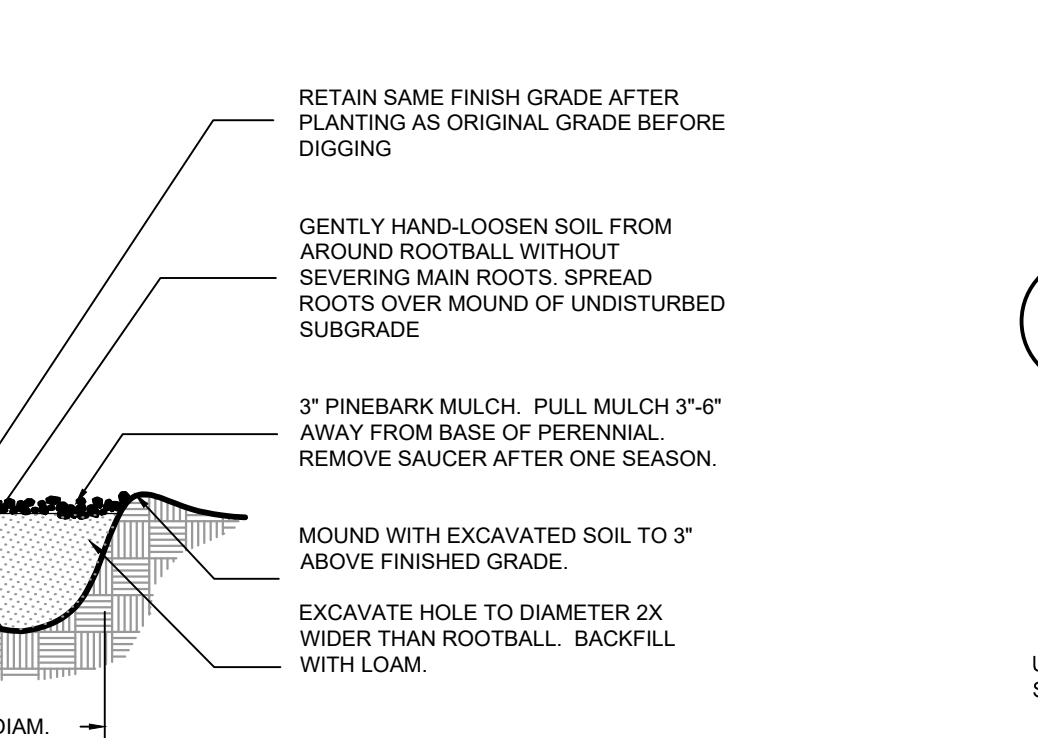
LOAM AND SEED DETAIL



PLANTING SPACING DETAIL



BEACH GRASS PLANTING DETAIL



GENERAL SEEDING NOTES:

1. SEND A REPRESENTATIVE SAMPLE OF THE TOPSOIL TO A TESTING LABORATORY FOR STANDARD SOIL ANALYSIS AS DESCRIBED IN THE SPECIFICATIONS. SUBMIT TO THE LANDSCAPE ARCHITECT AND ENGINEER TEST RESULTS WITH RECOMMENDED SOIL TREATMENTS TO PROMOTE PLANT AND GRASS GROWTH. CORRECT DEFICIENCIES IN THE LOAM AND STOCKPILED TOPSOIL AS DIRECTED BY THE TESTING AGENCY.
2. ALL AREAS THAT ARE DISTURBED AND/OR GRADED DURING CONSTRUCTION ARE TO BE BROUGHT TO FINISHED GRADE WITH AT LEAST 4" MINIMUM DEPTH OF GOOD QUALITY LOAM AND SEEDED WITH A QUICK GERMINATING GRASS SEED SUCH AS NEW ENGLAND EROSION CONTROL RESTORATION MIX OR AS SPECIFIED ON THE PLANS.
3. PRIOR TO THE PLACEMENT OF TOP SOIL, LOOSEN THE SUBGRADE OF ALL PROPOSED SEEDED AREAS TO A DEPTH OF 6" AND RAKE TO REMOVE STONES LARGER THAN 1 INCH, STICKS, ROOTS, RUBBISH AND OTHER EXTRANEOUS MATTER AND LEGALLY DISPOSE TO AN OFF SITE LOCATION.
4. DO NOT SPREAD TOPSOIL IF THE SUBGRADE IS FROZEN, EXCESSIVELY WET, COMPACTED OR NOT PROPERLY PREPARED PER THE NOTES AND SPECIFICATIONS.

Revisions

Rev	Date	By	Appr	Description
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

Horsley Witten Group, Inc.
 Sustainable Environmental Solutions
 90 Route 6A
 Sandwich, MA 02563
 508-833-6600 voice
 508-833-3150 fax

DATE: JANUARY 2021
 DRAWN BY: EB
 CHECKED BY: HC

BUZZARDS BAY STORMWATER RETROFITS
JERUSALEM ROAD - PERMITTING PLANS
 FAIRHAVEN, MASSACHUSETTS

PLANTING PLAN (2) & PLANTING DETAILS

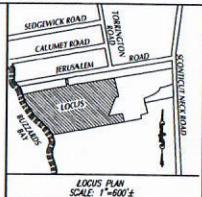
Prepared For:
Town of Fairhaven Board of Public Works
 5 Arden St
 Fairhaven, MA 02719
 Phone: (508) 979-4030
 Fax: ---

Survey Provided By:
Horsley Witten Group, Inc.
 90 Route 6A
 Sandwich, MA 02563
 Phone: (508) 833-6600
 Fax: (508) 833-3150
 Date: N/A



JERUSALEM ROAD

SMUGGLERS ROAD



PROPERTY INFORMATION:
 ASSESSORS MAP: #29
 ASSESSORS LOT: #1
 LOCATION: 1 SMUGGLERS ROAD
 OWNER/APPLICANT:
 KEITH & KIMBERLY DECKER
 1 SMUGGLERS ROAD
 FAIRHAVEN, MA 02719
 DEED BOOK 12872 PAGE 292
 CURRENT ZONING DISTRICT:
 RURAL RESIDENCE (R0)
 MINIMUM LOT AREA: 50,000 Sq Ft.
 MINIMUM FRONTAGE: 150.00' Ft.
 MIN. CONTIGUOUS UPLAND: 25,000 Sq Ft.
 MINIMUM BUILDING SETBACKS:
 FRONT: 30' SIDE: 20'
 REAR: 30'

(VACANT PARCEL)
 MAP #29, LOTS #107-110A
 N/F
 SEVEN GONCALVES, ARENE CARROLL
 & LINDA BURMEISTER

(21 JERUSALEM ROAD)
 MAP #29, LOTS #103-110A
 N/F
 STEVEN C. SELBY &
 MARY C. SELBY

(41 JERUSALEM ROAD)
 MAP #29, LOTS #111-114
 N/F
 MARK ROSSON

(45 JERUSALEM ROAD)
 MAP #29, LOTS #115-120
 N/F
 JOHN R. ROSSON

PROJECT BENCHMARK
 FORM NAIL SET IN UTILITY POLE
 (ELEVATION 21.15' (NAODD-CPS))

PROPOSED 26'x26' GARAGE
 PARALLEL TO HOUSE OPTION
 PROPOSED 26'x26' GARAGE
 30 DEGREE ROTATION OPTION

PROPOSED VESTED WETLAND
 AS FLAGGED BY L.C. ENVIRONMENTAL, INC.
 ON MAY 18, 2010 (L1, 2000, A1)
 & AUGUST 24, 2005 (1, 1000, B)

1	8-24-20	J.M.M.	ADD WETLAND FLAGS 1 THRU 8
Rev. #	DATE	BY	DESCRIPTION

EXISTING CONDITIONS WORKSHEET
 OF LAND KNOWN AS
 LOT #1 ON ASSESSOR'S MAP #29
 at 1 SMUGGLERS ROAD in
 FAIRHAVEN, MA
 PREPARED FOR
 KEITH & KIMBERLY DECKER
 Sheet 1 of 1 Sheets

SCALE: 1"=20'
 0 10 20 40 60
 DATE: JULY 31, 2020

SCHNEIDER, DAVIGNON & LEONE, INC.
 PROFESSIONAL CIVIL ENGINEERS & LAND SURVEYORS
 1 COUNTY RD, P.O. BOX 480, MATTAPOSETT, MA 02729
 1-508-758-7866

Drawn By: J.M.M. Check By: XXX Job No. 3297