

Deep Observation Hole Number: TP 19-9
Date of Testing: July 23, 2019
Soil Evaluator: Greg Hochmuth/SE2825
Board of Health: Paul Sevigny

Depth (in.)	Soil Horizon/Layer	Soil Matrix Color-Moist (munsell)	Redoximorphic Features (mottles)	Soil Texture (USDA)	Coarse Fragments % by Volume	Soil Structure	Soil Consistence (Moist)	Other
Depth	Color	Percent			Gravel	Cobbles & Stones		
0-8	Ap	10YR 3/2		FSL			GR	W
8-19	Bw	10YR 5/6		FSL			BK	W
19-102	C	2.5Y 5/4	28*	SL	10%		SBK	FI
			5Y 5/2					

Percolation Test Number: P-6
Depth of Percolation Test: 24"±18" Measured Rate (min./in.) 4 MPI

Deep Observation Hole Number: TP 19-13
Date of Testing: July 24, 2019
Soil Evaluator: Greg Hochmuth/SE2825
Board of Health: Paul Sevigny

Depth (in.)	Soil Horizon/Layer	Soil Matrix Color-Moist (munsell)	Redoximorphic Features (mottles)	Soil Texture (USDA)	Coarse Fragments % by Volume	Soil Structure	Soil Consistence (Moist)	Other
Depth	Color	Percent			Gravel	Cobbles & Stones		
0-9	Ap	10YR 3/2		FSL			GR	FR
9-21	Bw	10YR 5/6		SL			M	FR
21-102	C	2.5Y 5/4	28*	SL			SBK	FI
			5Y 5/2					

Percolation Test Number: P-7
Depth of Percolation Test: 22"±18" Measured Rate (min./in.) 22 MPI

Deep Observation Hole Number: TP 19-10
Date of Testing: July 23, 2019
Soil Evaluator: Greg Hochmuth/SE2825
Board of Health: Paul Sevigny

Depth (in.)	Soil Horizon/Layer	Soil Matrix Color-Moist (munsell)	Redoximorphic Features (mottles)	Soil Texture (USDA)	Coarse Fragments % by Volume	Soil Structure	Soil Consistence (Moist)	Other
Depth	Color	Percent			Gravel	Cobbles & Stones		
0-8	Ap	10YR 3/2		FSL			GR	W
8-16	Bw	10YR 5/6		FSL			BK	W
16-103	C	2.5Y 5/4	28*	SL	10%		SBK	FI
			5Y 5/2					

Percolation Test Number: P-8
Depth of Percolation Test: 24"±18" Measured Rate (min./in.) 4 MPI

Deep Observation Hole Number: TP 19-14
Date of Testing: July 24, 2019
Soil Evaluator: Greg Hochmuth/SE2825
Board of Health: Paul Sevigny

Depth (in.)	Soil Horizon/Layer	Soil Matrix Color-Moist (munsell)	Redoximorphic Features (mottles)	Soil Texture (USDA)	Coarse Fragments % by Volume	Soil Structure	Soil Consistence (Moist)	Other
Depth	Color	Percent			Gravel	Cobbles & Stones		
0-8	Ap	10YR 3/2		FSL			GR	FR
8-16	Bw	10YR 5/6		SL			M	FR
16-94	C	2.5Y 5/4	21*	SL			SBK	FI
			5Y 5/2					

Percolation Test Number: P-9
Depth of Percolation Test: 24"±18" Measured Rate (min./in.) 4 MPI

Ground Surface Elevation = 80.0±
ESHOWT down 26" at elevation = 77.83

Depth (in.)	Soil Horizon/Layer	Soil Matrix Color-Moist (munsell)	Redoximorphic Features (mottles)	Soil Texture (USDA)	Coarse Fragments % by Volume	Soil Structure	Soil Consistence (Moist)	Other
Depth	Color	Percent			Gravel	Cobbles & Stones		
0-8	Ap	10YR 3/2		FSL			GR	W
8-16	Bw	10YR 5/6		FSL			BK	W
16-103	C	2.5Y 5/4	28*	SL	10%		SBK	FI
			5Y 5/2					

Percolation Test Number: P-10
Depth of Percolation Test: 24"±18" Measured Rate (min./in.) 4 MPI

Ground Surface Elevation = 85.7±
ESHOWT down 21" at elevation = 83.99

Depth (in.)	Soil Horizon/Layer	Soil Matrix Color-Moist (munsell)	Redoximorphic Features (mottles)	Soil Texture (USDA)	Coarse Fragments % by Volume	Soil Structure	Soil Consistence (Moist)	Other
Depth	Color	Percent			Gravel	Cobbles & Stones		
0-8	Ap	10YR 3/2		FSL			GR	FR
8-16	Bw	10YR 5/6		SL			M	FR
16-94	C	2.5Y 5/4	21*	SL			SBK	FI
			5Y 5/2					

Percolation Test Number: P-11
Depth of Percolation Test: 24"±18" Measured Rate (min./in.) 4 MPI

SEGMENT	DIA (IN.)	MATERIAL (4) (5)	MIN. SLOPE (IN/FT.)
BUILDING TO SEPTIC TANK	4	PVC SCH40, ASTM D1785	1/4
SEPTIC TANK TO D-BOX	4	PVC SCH40, ASTM D1785	1/8
D-BOX TO SOIL ABSORPTION AREA	4	PVC SCH40, ASTM D1785	1/8 (2)
SOIL ABSORPTION AREA	4	PERFORATED (3), SCH40, ASTM D1785 (FOR GRAVITY SYSTEM ONLY)	1/16 (2)

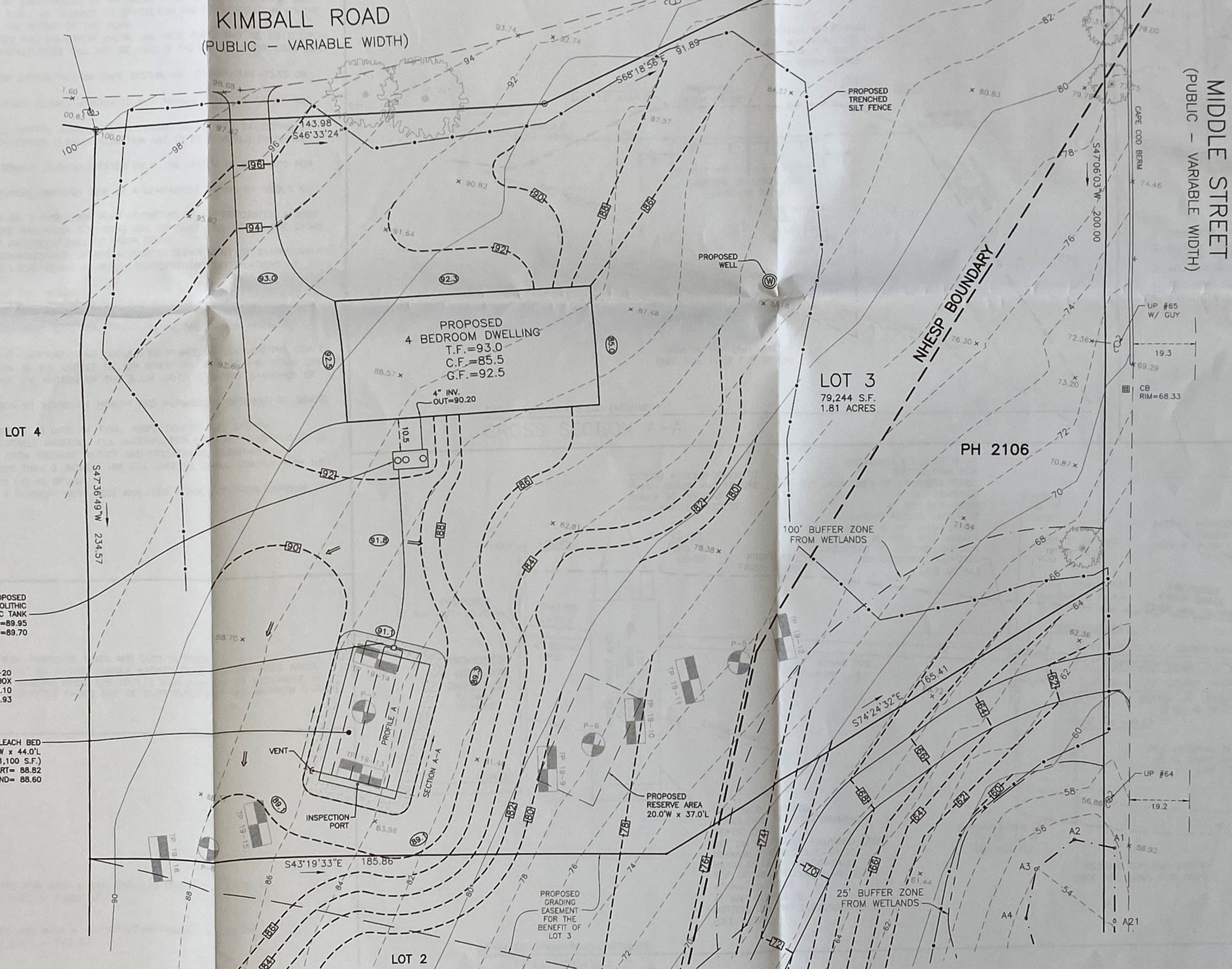
- (1) ALL PIPE SHALL BE PROPERLY BEDDED, HAUNCHED, BACKFILLED. ALL JOINTS SHALL BE WATERTIGHT.
- (2) PIPE SHALL BE LAID LEVEL, FIRST 2 FEET DOWNSTREAM FROM DISTRIBUTION BOX.
- (3) PERFORATIONS DOWN AT 5 AND 7 O'CLOCK (FOR GRAVITY SYSTEMS).
- (4) UNLESS OTHERWISE SPECIFIED ON FLOW PROFILE.

PIPE SPECIFICATIONS
(310 CMR 15.251)

TABLE OF PROPOSED SEPTIC SYSTEM INVERTS (INV.)

- INV. AT FOUNDATION = 90.20
- SEPTIC TANK INV. IN = 89.95
- SEPTIC TANK INV. OUT = 89.70
- DISTRIBUTION BOX INV. IN = 89.10
- DISTRIBUTION BOX INV. OUT = 88.93
- LEACH BED START = 88.82
- LEACH BED END = 88.60
- BOTTOM OF BED = 88.10

KIMBALL ROAD (PUBLIC - VARIABLE WIDTH)

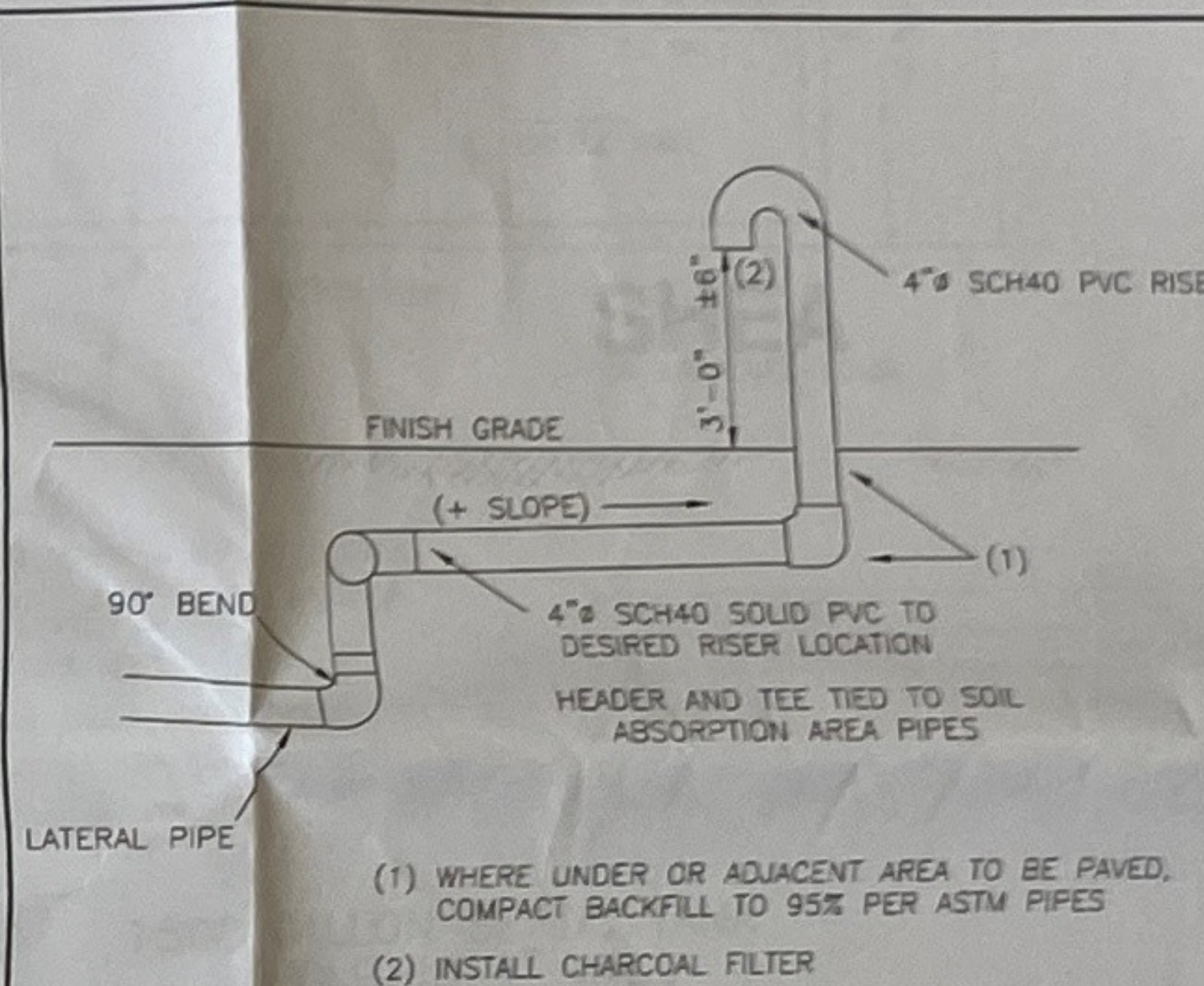


APPROVED
WEST NEWBURY
BOARD OF HEALTH

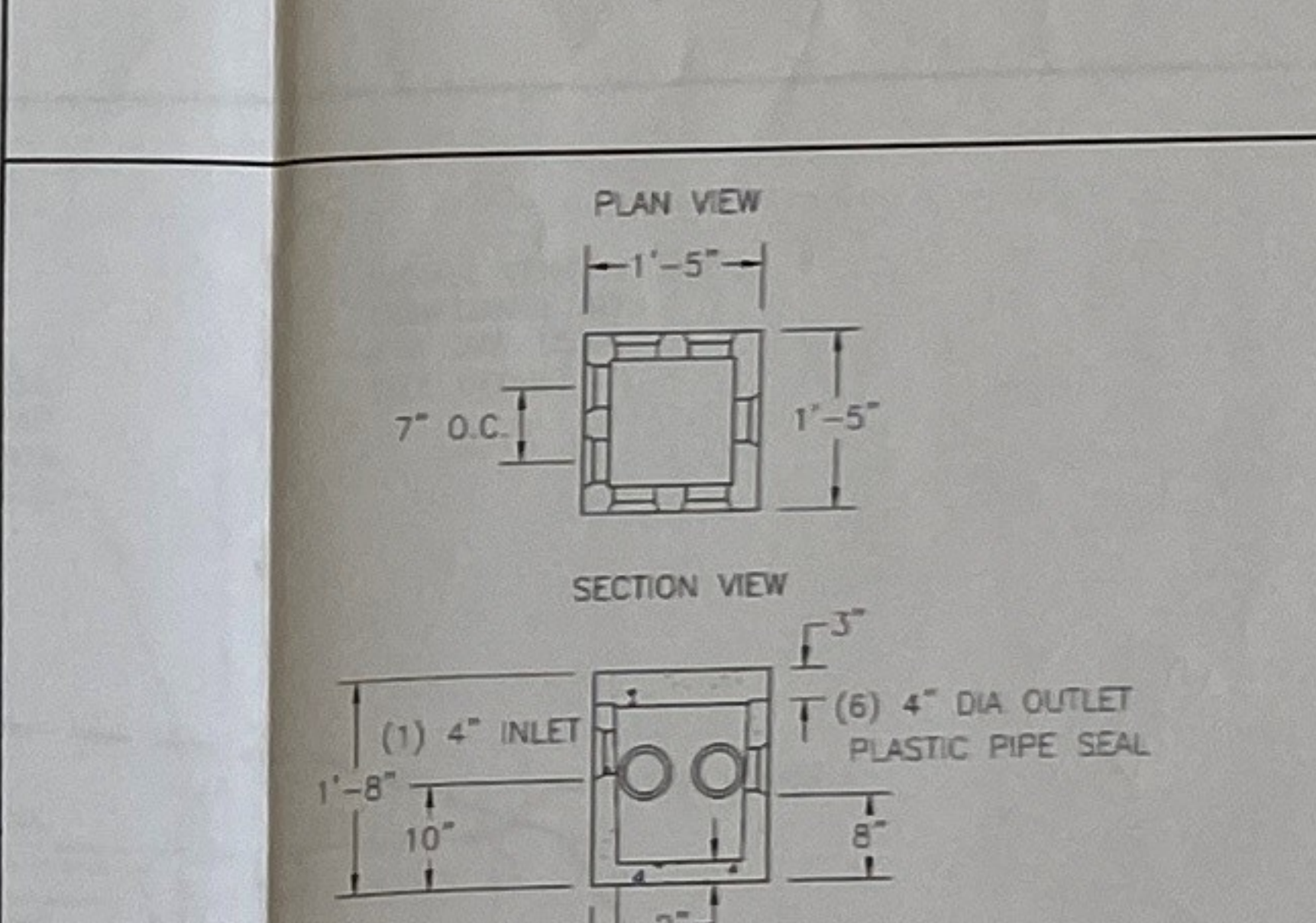
DATE
JUN 08 2021

ASSESSORS MAP REFERENCE:
MAP RB PORTION OF PARCEL 120

LOCUS MAP SCALE: 1"=500'±

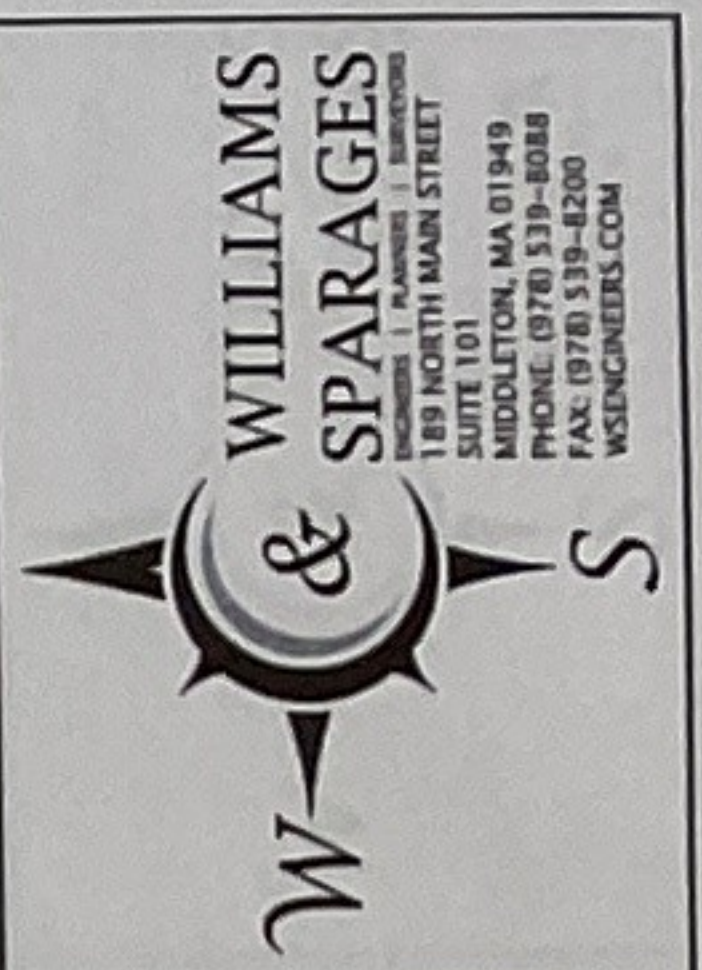


VENT
N.T.S.



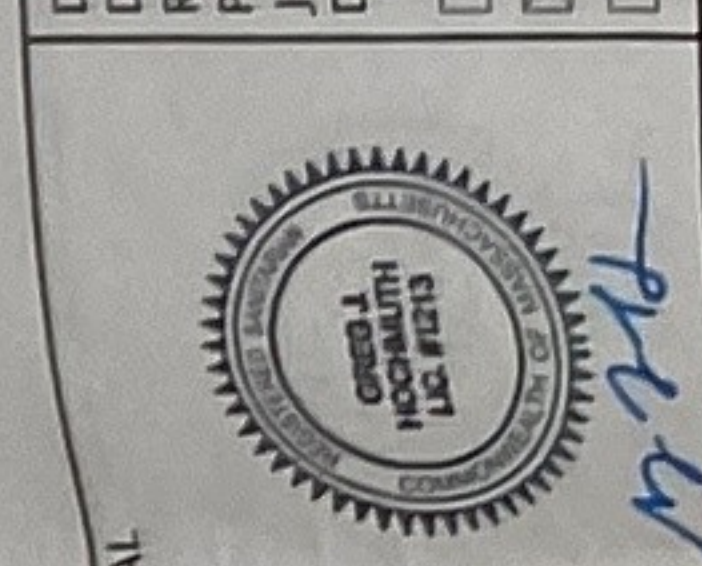
6 OUTLET H-20 DISTRIBUTION BOX
N.T.S.

CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
DESIGN CONFORMS WITH 310 CMR 15.000.
DEPT TITLE 5 REGS. FOR DISTRIBUTION BOXES.
CONTRACTOR SHALL INSURE THAT ALL INLETS AND OUTLETS ARE MADE WATERTIGHT.
CONTRACTOR SHALL INSURE THAT DISTRIBUTION BOXES ARE SET ON A MINIMUM OF 6" OF MECHANICALLY COMPACT CRUSHED STONE.
THE INVERT ELEVATION OF ALL OUTLETS SHALL BE EQUAL TO EACH OTHER AND LOCATED AT LEAST 2" BELOW THE INVERT OF THE INLET.
INLET TEES IN DISTRIBUTION BOXES SHALL BE INSTALLED IN ACCORDANCE TO 310 CMR 15.232 (3)(A) TO PROVIDE 1" BETWEEN THE BOTTOM OF THE TEE AND THE OUTLET INVERT.



Owner/Applicant:
Graf Realty Trust
14 Kimball Road
West Newbury, MA 01985
508-641-7251

Designed By: MRP
Drawn By: MRP
Reviewed By: GH
Project Manager: GH
Job File Number: WNEW-0050A
Drawing File Folder: WNEW50

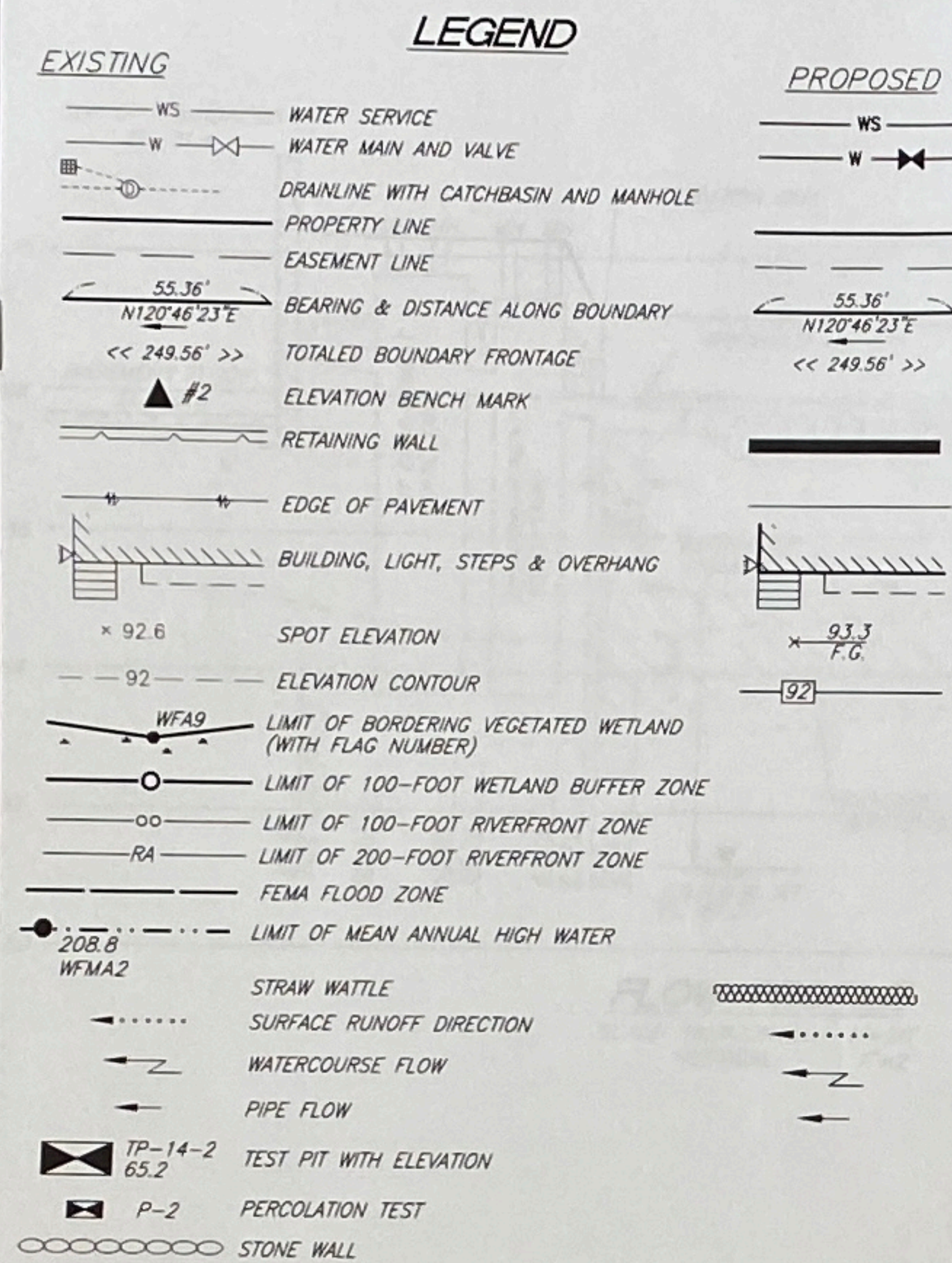


REVISIONS
REVISED SEPTIC TANK DETAIL
REVISED PER BOH COMMENTS

SANITARY DISPOSAL SYSTEM DESIGN PLAN
#14 KIMBALL ROAD, SUBDIVISION LOT 3, WEST NEWBURY
156 Middle St
JUN 07 2021
SD-38
BOARD OF HEALTH

DRAWING: S-1
SHEET 1 OF 2

2 Kimball



ELEVATION BENCH MARKS
DATUM: ASSUMED (SEE NOTE 1)

NO.	DESCRIPTION	ELEV.
1.	BRASS DISK, CENTER	66.87
2.	CONCRETE BOUND, TOP SOUTHWEST CORNER	70.57
3.		

CONSTRUCTION KEY NOTES:
(NOT A CONSTRUCTION SEQUENCE)

- CONSULT WITH OWNER REGARDING PRESERVATION OF TREES AND LANDSCAPING.
- REMOVE AND REPLACE FILL MATERIAL WITH C-33 SAND.
- INSTALL 2,500 GALLON AND 1,500 GALLON SEPTIC TANKS AND CONNECTING PIPE.
- INSTALL 6-OUTLET DISTRIBUTION BOX AND CONNECTING PIPE.
- INSTALL SOIL ABSORPTION AREA - 5 STEPPED TRENCHES, SEE PROFILE FOR ELEVATIONS.
- INSTALL 40 MIL HDPE BARRIER, TOP OF BARRIER AT EL=64.4, BOTTOM OF BARRIER TO EXTEND 4 FEET BELOW BOTTOM OF STONE ELEVATION AND AT LEAST 2 FEET INTO PARENT MATERIAL, WHICHEVER IS LOWER.
- INSTALL VENT.
- INSTALL RETAINING WALL.
- ALL DISTURBED AREAS SHALL BE BACKFILLED, FINISH GRADED AND HYDROSEEDED WITH ANNUAL RYEGRASS UNLESS OTHERWISE SHOWN ON THE PLAN.
- INSTALL STRAW WATTLE SEDIMENT BARRIER. BARRIER SHALL REMAIN IN PLACE UNTIL SITE IS STABILIZED AND SHALL SERVE AS A LIMIT OF WORK.
- INSTALL OBSERVATION PORT.

PLAN INTENT

THESE DRAWINGS ARE INTENDED TO SHOW CONSTRUCTION REQUIREMENTS FOR A SUBSURFACE SEWAGE DISPOSAL SYSTEM.

SCALE: 1" = 20'

ASSESSORS:

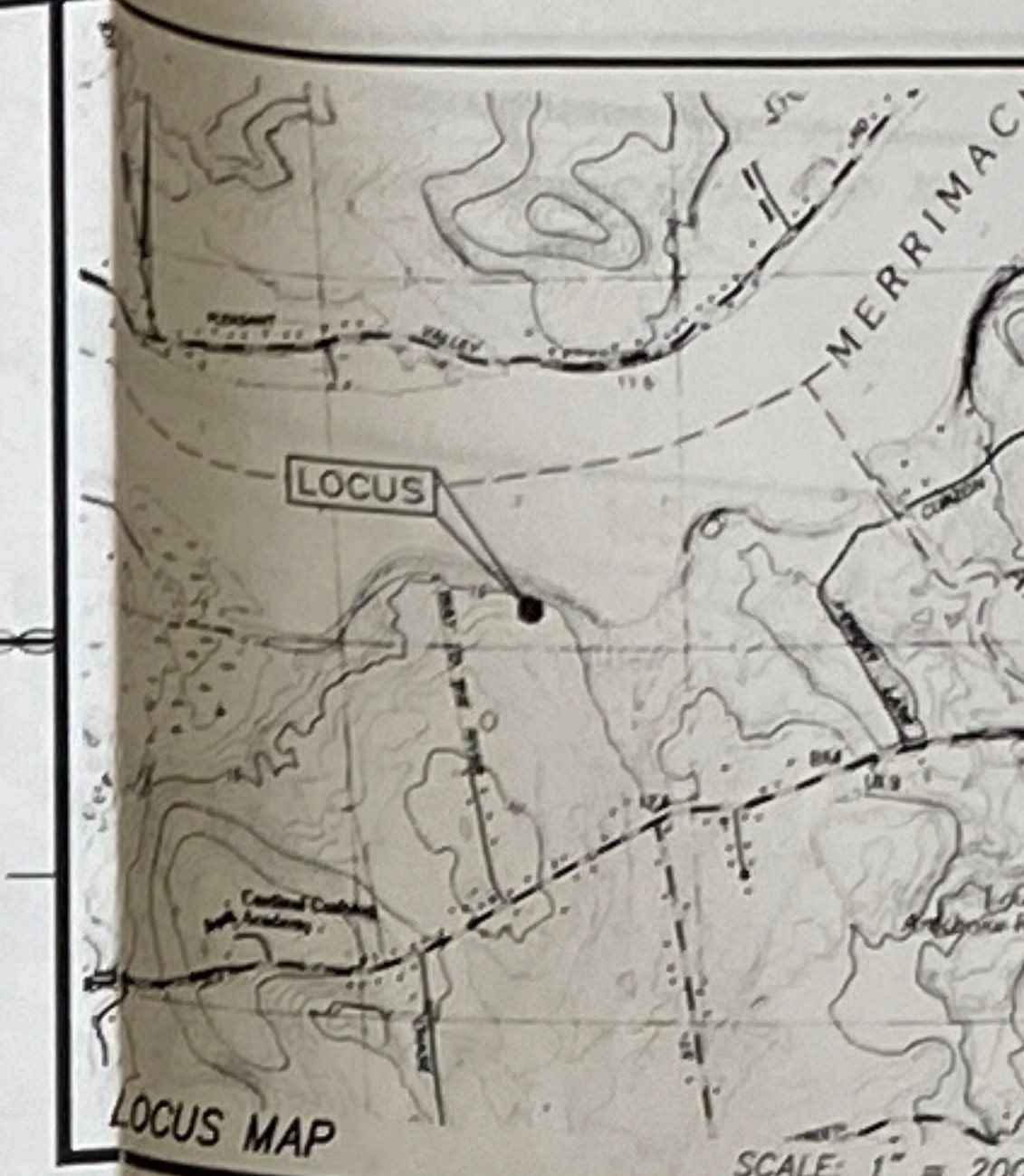
MAP R-28, LOT 6

REFERENCES:

DEED BOOK 13067, PAGE 490
PLAN BOOK 232, PLAN 39

RECORD OWNER:

ADRIAN VINCIGUERRA
12 NORINO DRIVE
WEST NEWBURY, MA 01985



SEWAGE DISPOSAL SYSTEM

#18 Norino Drive
West Newbury, Massachusetts 01985

PREPARED FOR

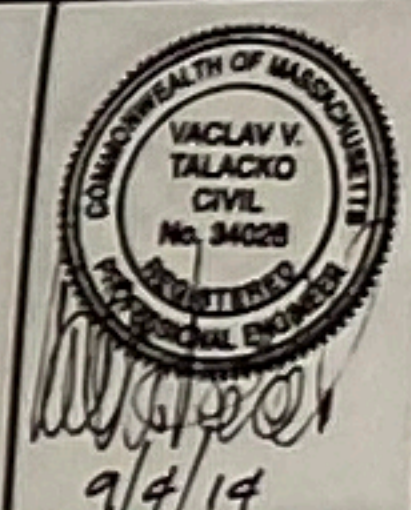
JIM WARD

27 Damon Street
Danvers, Massachusetts 01923

HANCOCK ASSOCIATES

Civil Engineers
Land Surveyors
Wetland Scientists

105 CENTRE STREET, DANVERS, MA 01923
VOICE (978) 777-3050 FAX (978) 774-7818
WWW.HANCOCKASSOCIATES.COM



RECEIVED
SEP 04 2014
HEALTH AGENT

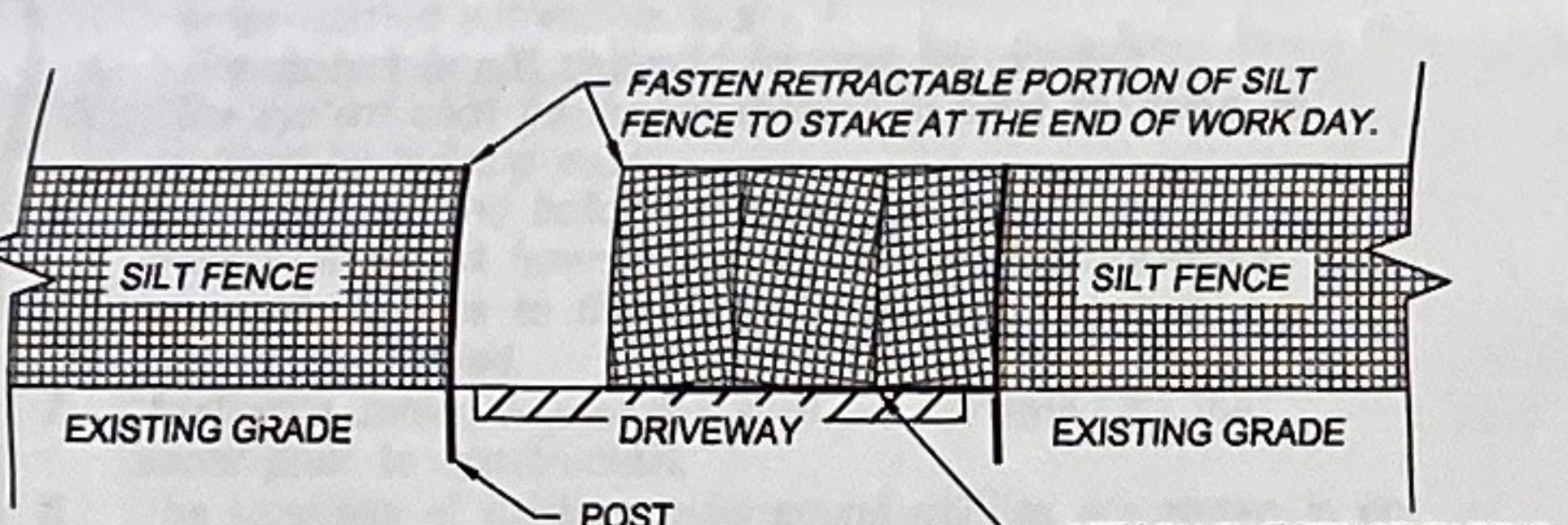
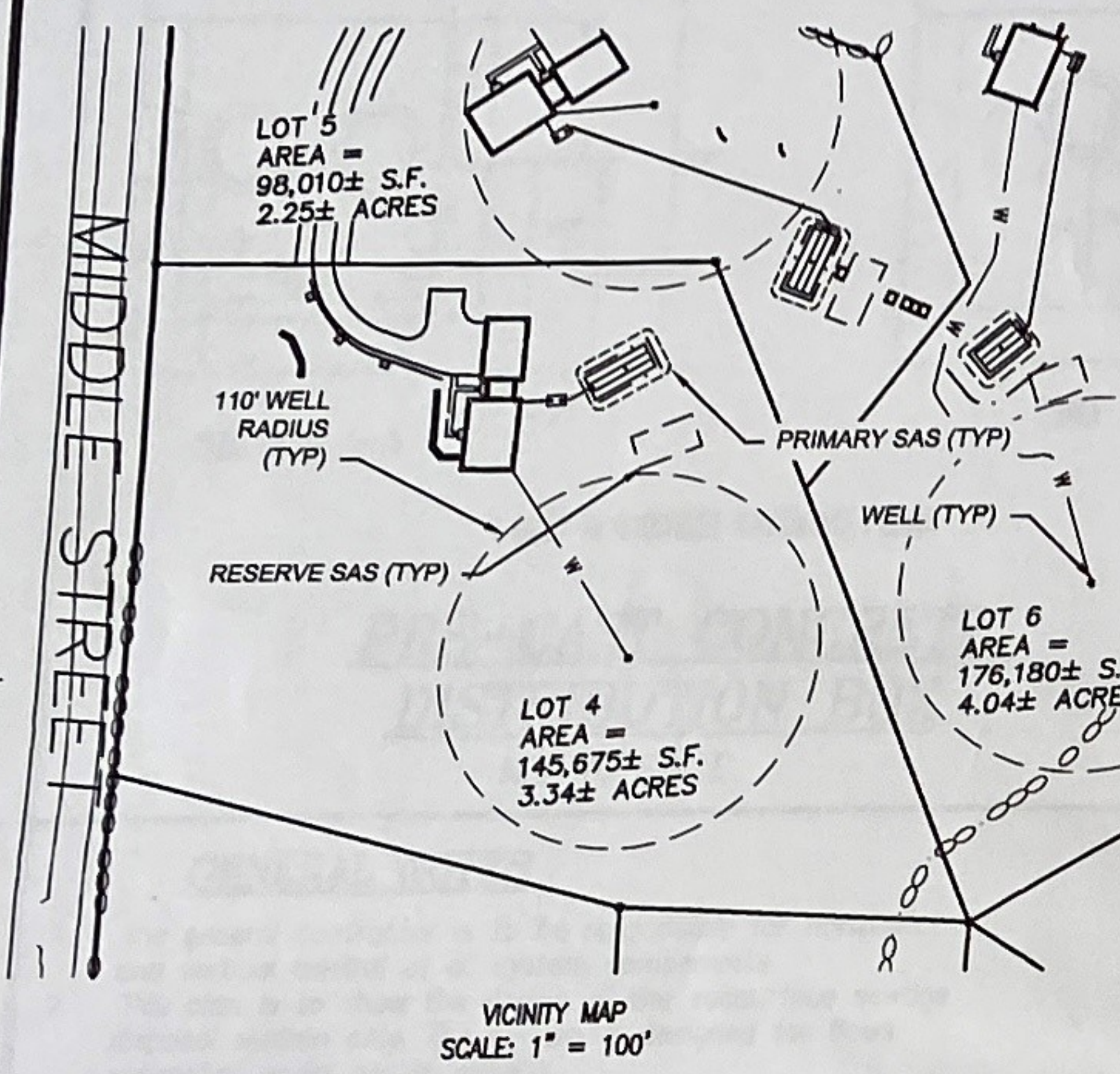
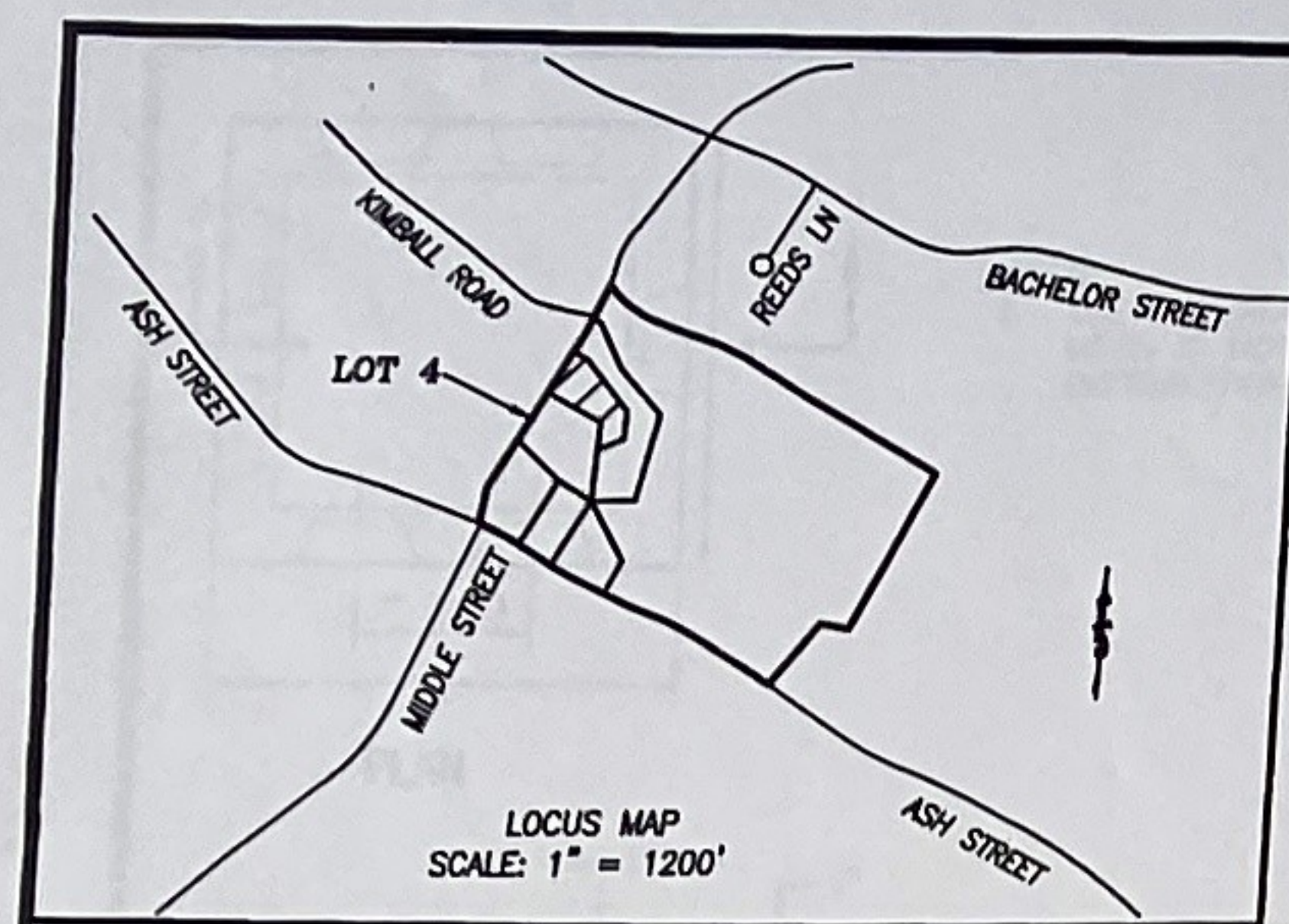
NO.	APP.	DATE	ISSUE/REVISION DESCRIPTION
1	KMP VIT	9/4/14	BOH COMMENTS

DATE: 8/20/14 DRAWN BY: ETC
SCALE: 1" = 20' CHECK BY: JOP

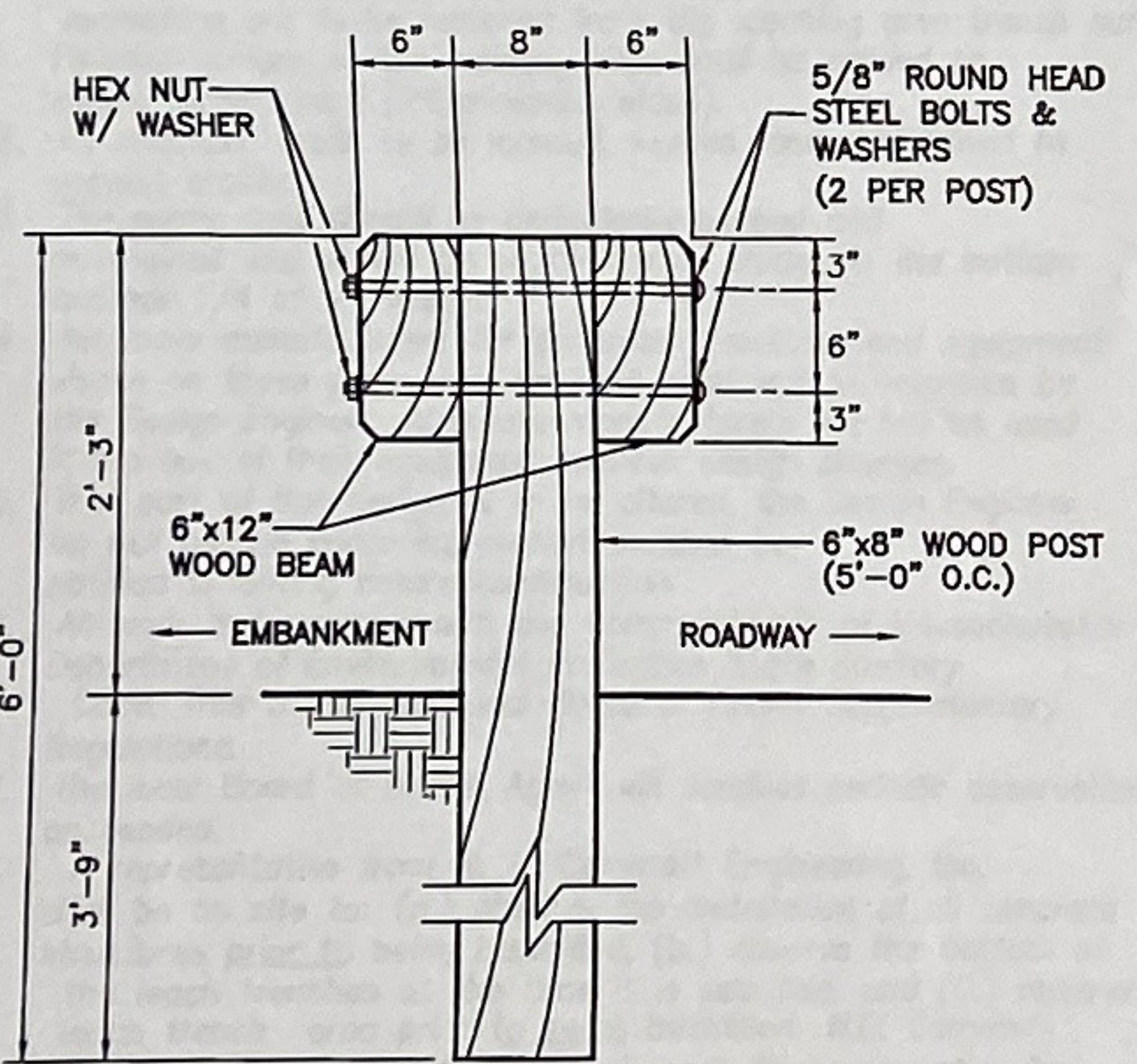
SITE PLAN AND LEGEND

PROJECT DATE: Sep 04, 2014 3:18 pm
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DWG: 18448.dwg
LAYOUT: SDS
SHEET: 1 OF 3
PROJECT NO.: 18448

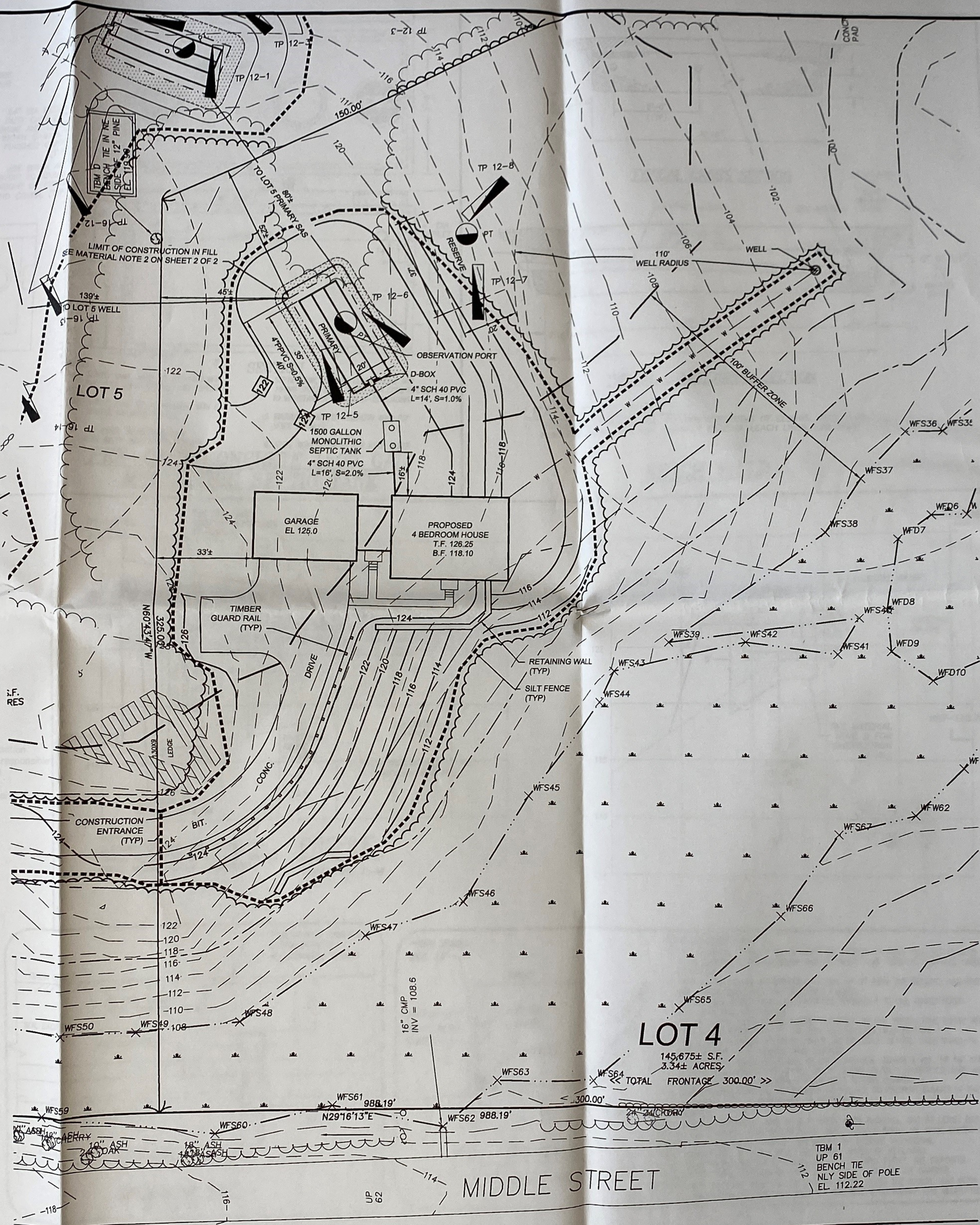
18 Norino



CONSTRUCTION ENTRANCE
NOT TO SCALE



TIMBER GUARD RAIL DETAIL
NTS

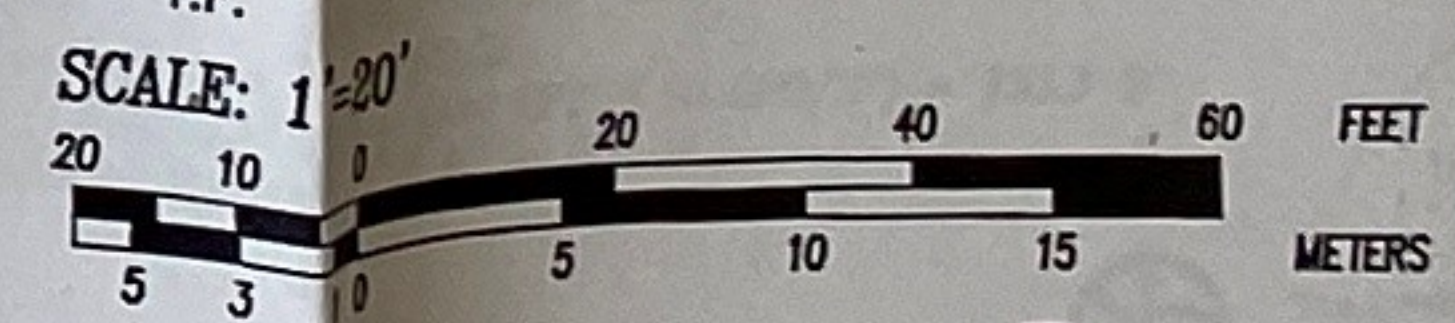


NOTES:

1. NO ABUTTING WELLS ARE LOCATED WITHIN 110' OF PROPOSED DISPOSAL AREA.
2. THE PARCEL SHOWN HEREON IS IDENTIFIED AS LOT 4 AS SHOWN ON PLAN BOOK 458, PLAN 50 ON FILE AT THE ESSEX SOUTH DISTRICT REGISTRY OF DEEDS.
3. PROPERTY OWNER: BK. 15452 PG. 229
4. CONTRACTOR TO INSTALL MAGNETIC TAPE ABOVE ALL COMPONENTS OF SEPTIC SYSTEM. TAPE TO BE INSTALLED AT A DEPTH OF 6"-12".
5. SEPTIC TANK TO USE TWO WATER TIGHT RISERS TO GRADE WITH FRAMES & SECURED COVERS TO PREVENT UNAUTHORIZED ACCESS. OTHER OPENINGS ON TANK SHALL HAVE WATER TIGHT RISER AND COVER TO WITHIN 6" OF GRADE.
6. SEPTIC TANK TO BE PROVIDED WITH EFFLUENT FILTER.
7. WETLAND BOUNDARY DELINEATED BY WETLANDS PRESERVATION, INC.
8. DIMENSIONS SHOWN IN FEET UNLESS OTHERWISE NOTED.
9. VERTICAL DATUM NAVD 1988.
10. PRE-TREATMENT MAY BE REQUIRED IN ACCORDANCE WITH LOCAL BOARD OF HEALTH REGULATIONS SHOULD THE RESERVE SOIL ABSORPTION SYSTEM BE PUT INTO SERVICE.
11. RETAINING WALL SHALL BE DESIGNED BY A MASSACHUSETTS REGISTERED PROFESSIONAL STRUCTURAL ENGINEER.

LEGEND

- Existing**
- EXISTING GRADE CONTOURS
 - TREELINE
 - WETLAND BOUNDARY
 - WETLAND FLAG
 - 100' BUFFER ZONE
 - LOT LINE
 - PERCOLATION TEST
 - SOIL TEST PIT
- Proposed**
- PROPOSED CONTOURS
 - TREE LINE
 - EROSION CONTROL
 - WATER LINE
 - FOUNDATION DRAIN
 - CULVERT
 - EDGE OF PAVEMENT
 - WELL
 - BUILDING
 - ELEVATION
 - BASEMENT FLOOR
 - BIT. CONC.
 - LENGTH
 - INVERT
 - PPVC
 - PVC
 - SCHEDULE
 - SLOPE
 - TOP OF FOUNDATION



APPROVED
WEST NEWBURY
BOARD OF HEALTH

[Signature]
DATE: MAY 4 2017



297 ELM STREET, AMESBURY, MA.
Phone: (978) 388-2157 Fax: (978) 388-0428
CONSULTING ENGINEERS & LAND SURVEYORS SINCE 1975
Visit us on the WEB at www.cammett.com

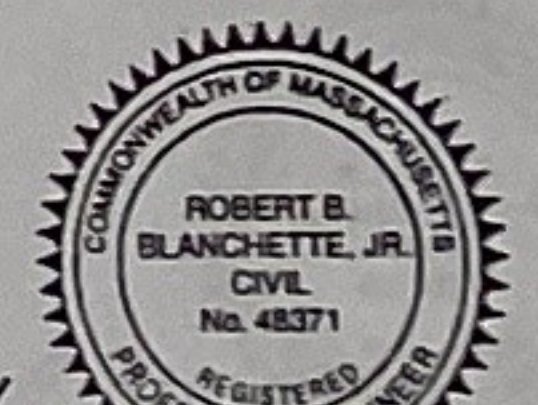
Site Plan

SANITARY DISPOSAL
SYSTEM
151 MIDDLE STREET
WEST NEWBURY, MA
ESSEX COUNTY

Applicant:
Tom Cook, Jr.
28 MEADOWVIEW RD
GEORGETOWN, MA 01833

Owner:
Haddock Realty Trust
157 MIDDLE STREET
WEST NEWBURY, MA 01985

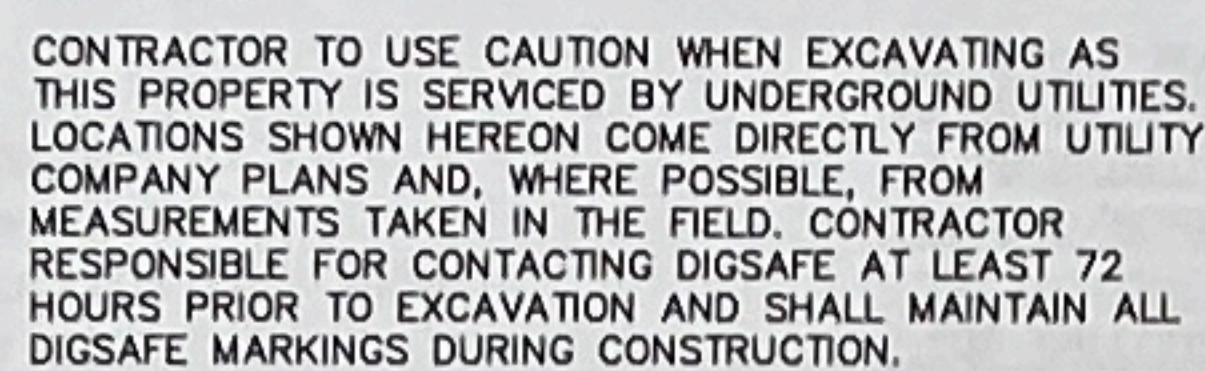
REVISION			
NO.	DATE	DESCRIPTION	BY
A	4.10.17	BOH COMMENTS, NOI	RB



Date: 10 APR 2017
PROJ. MGR.: R. Blanchette
FIELD: A. Bick / M. Michaud
DESIGN: R. Blanchette
DRAWN: N. Koch
CHECKED: R. Blanchette, W. Cammett
DATE: 5-31-16
FILE: K:\15058 LOT 4 SD.dwg
JOB #: 15058

SHEET 1 of 2

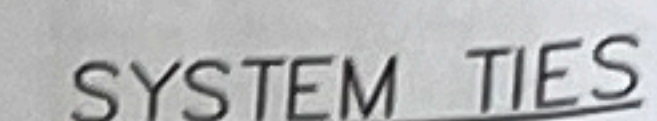
151 Middle



AN IMPERVIOUS MEMBRANE HAS BEEN PROVIDED, PURSUANT TO 310 CM 15.255(2)(c), TO REDUCE THE RECOMMENDED FILL EXTENSION FROM 15' TO 5'. THE PROPOSED MEMBRANE SHALL EXTEND DOWN A MINIMUM OF 12" INTO NATURAL GRADE. THE TOP OF THE MEMBRANE SHALL BE AT LEAST 12" ABOVE FINISHED GRADE. IT SHALL BE BACK-FILLED WITH CLEAN, GRANULAR SAND, FREE OF STONES, DEBRIS AND ANGULAR FRAGMENTS EQUALLY ON EACH SIDE OF THE MEMBRANE. IT SHALL BE INSTALLED VERTICALLY AND CONFORM TO THE SLOPE OF THE SLOPE TO BE PROTECTED. THE TOP OF THE MEMBRANE SHALL COVER THE TOP EDGE AT FINISH GRADE. 40 MIL HDPE MINIMUM IS REQUIRED. THE CONTRACTOR SHALL FURNISH CERTIFICATION THAT THE MEMBRANE IS

THE OWNER IS HEREBY ADVISED THAT THE USE OF A GARBAGE DISPOSAL IN THE KITCHEN SINK IS NOT PERMITTED WITH THE SEPTIC SYSTEM AS SHOWN. NO GARBAGE DISPOSAL SHALL BE INSTALLED WITHOUT PRIOR APPROVAL FROM THE BOARD OF HEALTH.

THE OWNER IS HEREBY ADVISED THAT THE SEPTIC SYSTEM, AS SHOWN, WAS NOT DESIGNED TO BE
DRIVEN OVER OR PARKED ON BY ANYTHING HEAVIER THAN TYPICAL HOUSEHOLD LAWN
MAINTENANCE EQUIPMENT. DOING SO WILL VERY LIKELY RESULT IN DAMAGE TO THE LEACH FIELD.



A STANDARD SWING TIE DETAIL WAS NOT PROVIDED AS THE TOWN OF WEST NEWBURY BOARD OF HEALTH REQUIRES THE PROPOSED SEPTIC COMPONENTS BE SURVEY STAKED ON THE GROUND BY THE DESIGN ENGINEER PRIOR TO CONSTRUCTION TO INSURE THAT THE SYSTEM CONFORMS TO THE APPROVED DESIGN PLAN AND ALL REQUIRED SETBACKS. THE OWNER OF THE PROPERTY AND/OR CONTRACTOR SHOULD CONTACT OUR OFFICE 2-3 WEEKS IN ADVANCE OF CONSTRUCTION TO SCHEDULE THE REQUIRED SURVEY STAKEOUT.

ZABEL EFFLUENT FILTER MODEL #A1800-4x18-VT-PA



WJW
Beyoncé
L.B.
MAY 4 2021
DATE 5/4/21

RECORD OWNERSHIP

RUTH A. JOHNSTON
MARY KATE BARTLEY

DEED REFERENCE

ESSEX COUNTY REGISTRY OF DEEDS
BOOK 13624 PAGE 551

BOOK 13624 PAGE 551
PROBATE #: 98 P 0622-EP
PROBATE #: 98 P 0622-EP

PLAN REFERENCE

PLAN REFERENCE

PLAN BOOK 404 PLAN 11

APPROVED
WEST NEWBURY
BOARD OF HEALTH

Paul J. [Signature]
 [Signature]
 [Signature]
 MAY 09 2010

- 1) PLEASE BE ADVISED THAT THESE PLANS SHOULD BE CONSIDERED TO BE A PROGRESS PRINT UNLESS STAMPED BY THE LOCAL BOARD OF HEALTH AS APPROVED. CONTRACTOR SHOULD OBTAIN A COPY STAMPED APPROVAL FROM THE LOCAL BOARD OF HEALTH TO USE DURING CONSTRUCTION.
- 2) HOMEOWNER SHALL BE RESPONSIBLE FOR CONTACTING THE LOCAL BOARD OF HEALTH TO DETERMINE THE LENGTH OF TIME THE APPROVAL IS VALID FOR. EXTENSIONS TO THE APPROVAL EXPIRATION DATE MAY BE GRANTED BY THE BOARD OF HEALTH, AT THEIR DISCRETION, IF REQUESTED IN WRITING PRIOR TO THE DATE OF EXPIRATION.
- 3) THIS PLAN IS FOR THE INSTALLATION OF THE PROPOSED SEPTIC SYSTEM ONLY AND SHOULD NOT BE USED TO ESTABLISH LINES OF OWNERSHIP ON THE GROUND. A BOUNDARY LINE SURVEY IS RECOMMENDED TO ESTABLISH LINES OF OWNERSHIP.
- 4) ALL WORK SHALL COMPLY WITH THE COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION TITLE V REGULATIONS AND ALL LOCAL REGULATIONS.
- 5) CONTRACTOR SHALL NOTIFY DESIGN ENGINEER FOR A BED BOTTOM INSPECTION.
- 6) ALL SEPTIC COMPONENTS INCLUDING, BUT NOT LIMITED TO, THE TANK CORNERS, LEACH LINES, AND ALL CONNECTING PLUMBING SHALL BE LEFT EXPOSED UNTIL AS-BUILT MEASUREMENTS ARE OBTAINED.
- 7) CONTRACTOR SHALL NOTIFY DESIGN ENGINEER AFTER BACKFILLING AND SPREADING OF LOAM AND SEED SO THAT FINISHED TOPOGRAPHY MAY BE OBTAINED FOR AS-BUILT DRAWING.
- 8) ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE PRIOR TO BACKFILLING, IN ACCORDANCE WITH 310 CMR 15.221(12), TO ALLOW FOR EASIER LOCATING OF COMPONENTS DURING FUTURE MAINTENANCE.
- 9) ALL SYSTEM COMPONENTS SHALL BE INSPECTED IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS. IT IS HIGHLY RECOMMENDED THAT THE INSPECTIONS ARE COMPLETED ONE ANNUALLY OR MORE FREQUENTLY AS RECOMMENDED BY THE COMPONENT MANUFACTURER. INSPECTION REPORTS SHALL BE COMPLETED ON AN OFFICIAL REPORT FORM AND INSPECTION REPORTS SHALL BE SUBMITTED TO THE LOCAL BOARD OF HEALTH.

 DRILL HOLE
 SOIL TEST PIT
 PERCOLATION TEST
 PRIVATE WELL

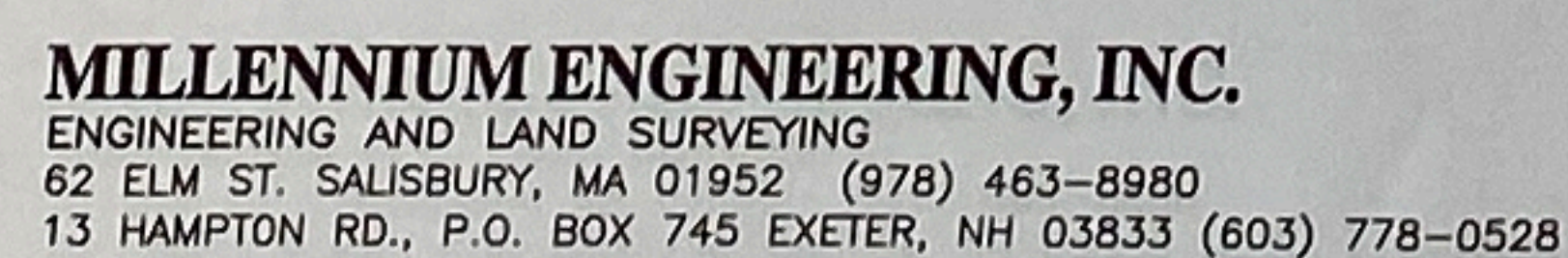
 PROPOSED CONTOURS

 EXISTING CONTOURS

 OVERHEAD WIRE

 STONE WALL

 WATER LINE



PREPARED FOR

TAI WAKABAYASHI
14 RIVERVIEW HEIGHTS
AMESBURY, MA. 01813
CELL: (617) 459-5260
EMAIL: TAINATALIE108@GMAIL.COM

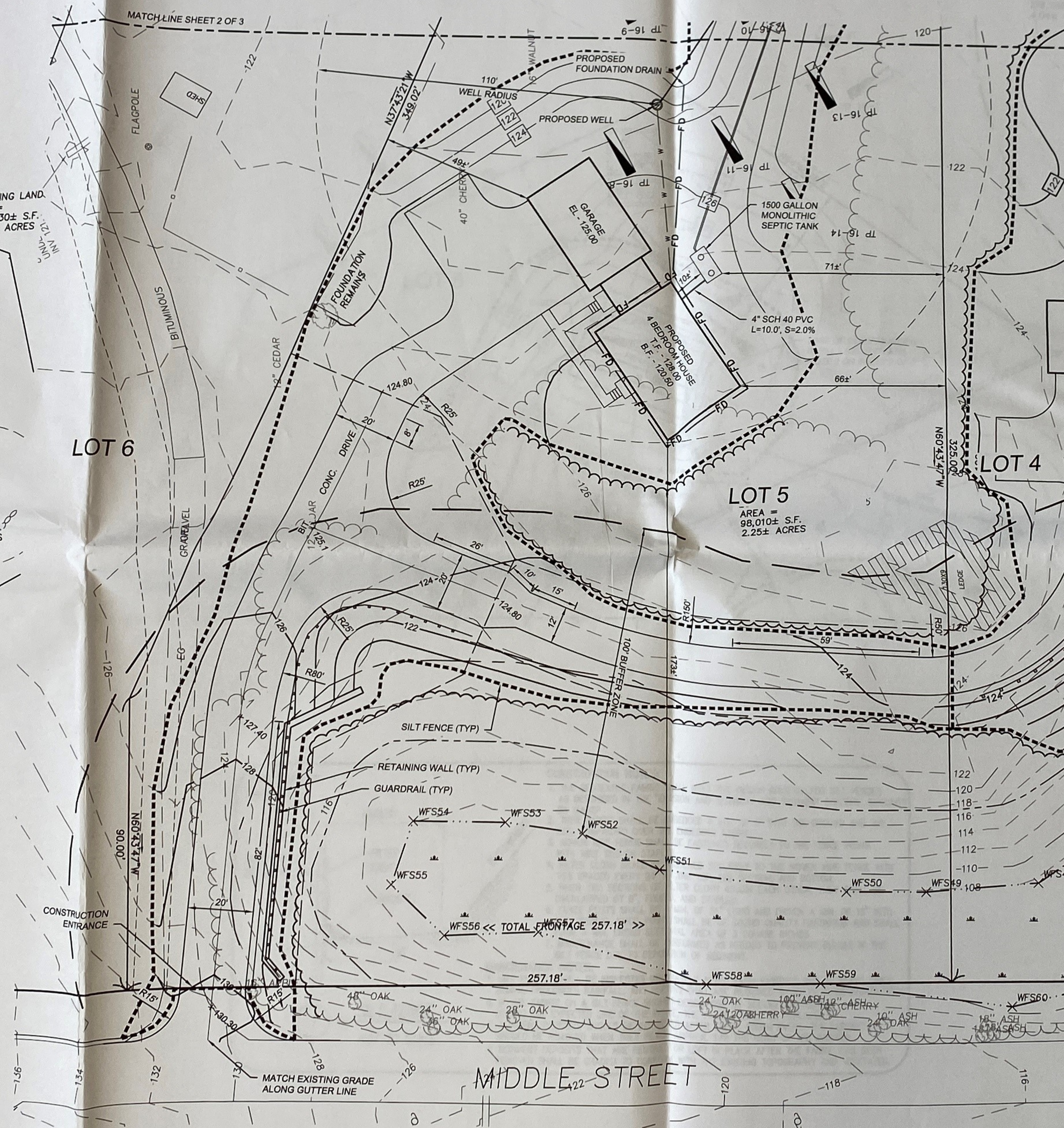
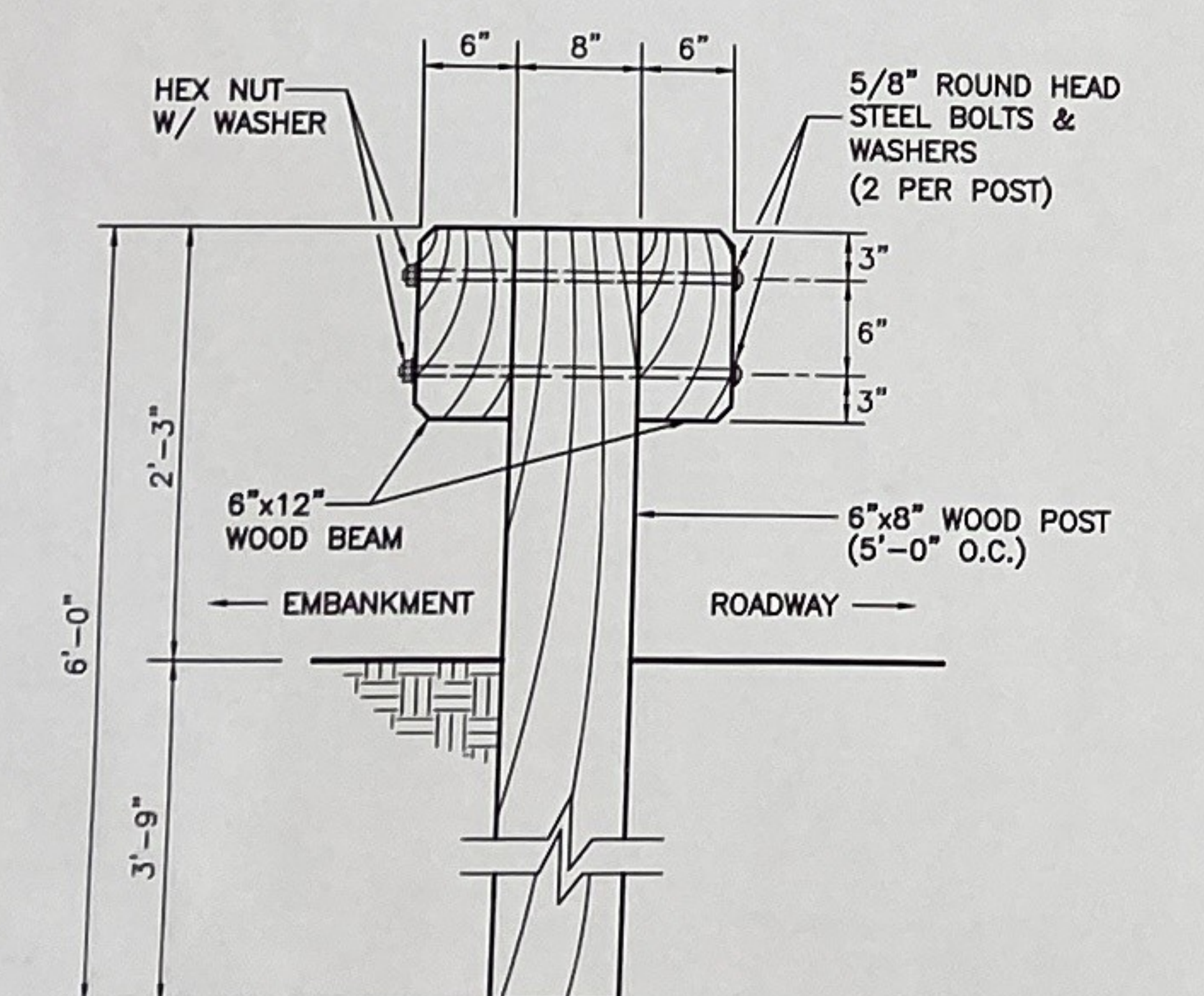
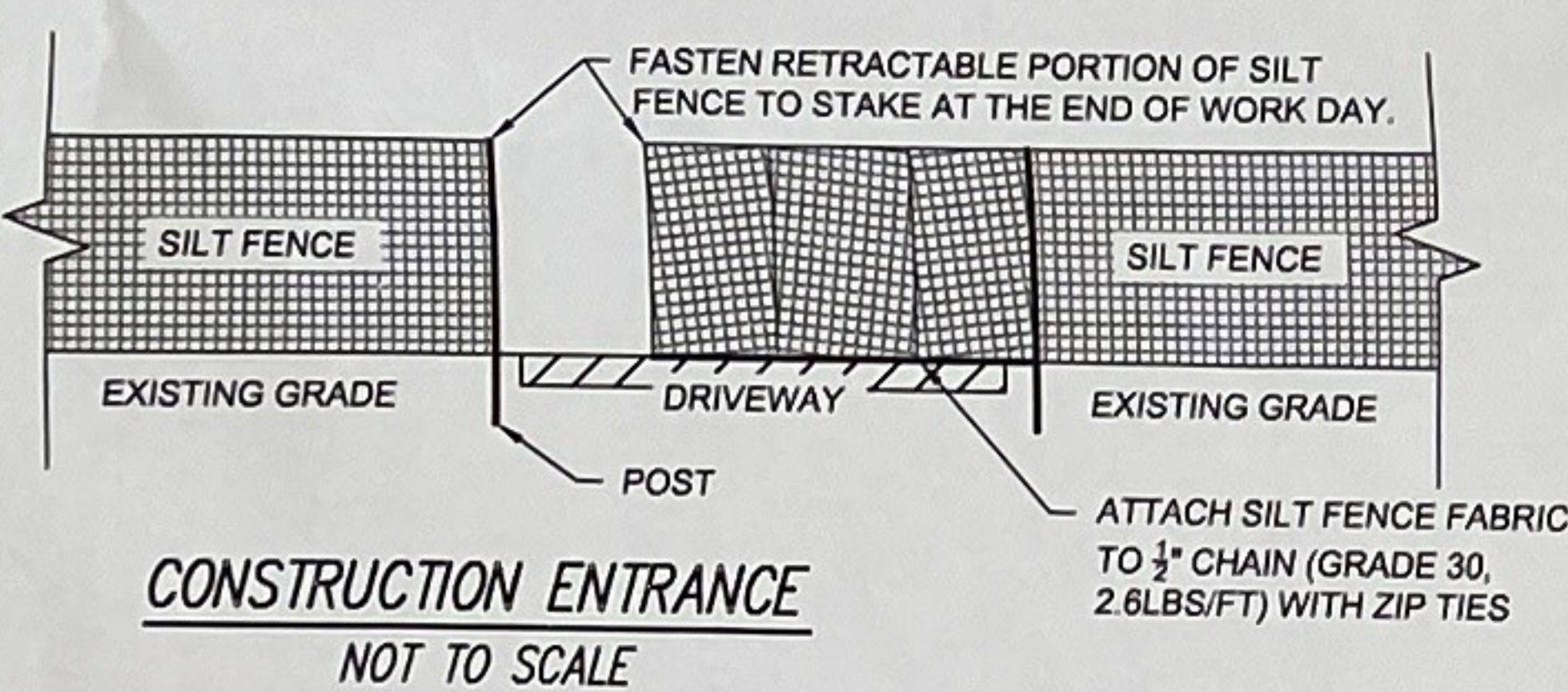
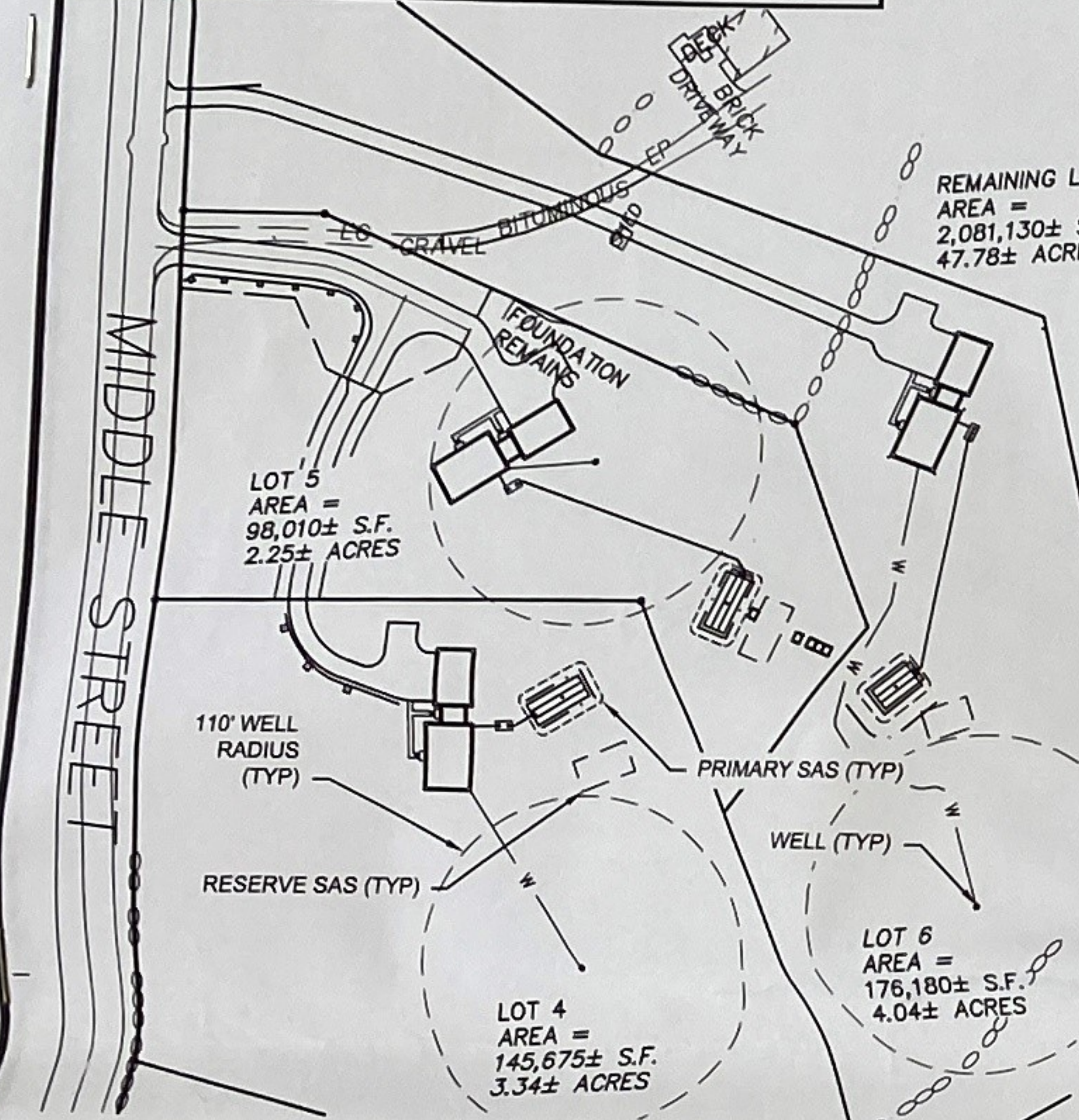
SHOWING

A PROPOSED SEPTIC SYSTEM
CRANE NECK STREET
(MAP R4, LOT 8A)

EM RECEIVED
MAR 27 1988
18-01
BOARD OF HEALTH

SCALE: AS NOTED	CALC. BY: M.A.S.	PROJECT: M173209
DATE: JAN. 16, 2017	CHKD. BY: E.W.B.	SHEET: 1 OF 3

152 Crane Neck



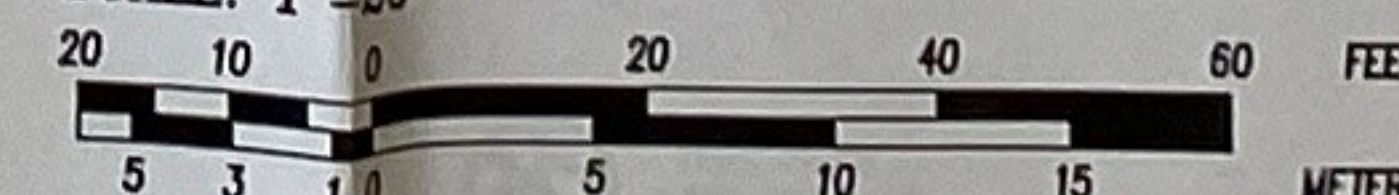
NOTES:

1. NO ABUTTING WELLS ARE LOCATED WITHIN 110' OF PROPOSED DISPOSAL AREA.
2. THE PARCEL SHOWN HEREON IS IDENTIFIED AS LOT 5 AS SHOWN ON PLAN BOOK 458, PLAN 50 ON FILE AT THE ESSEX SOUTH DISTRICT REGISTRY OF DEEDS.
3. PROPERTY OWNER BK. 15452 PG. 229
4. CONTRACTOR TO INSTALL MAGNETIC TAPE ABOVE ALL COMPONENTS OF SEPTIC SYSTEM. TAPE TO BE INSTALLED AT A DEPTH OF 6"-12".
5. SEPTIC TANK TO USE TWO WATER TIGHT RISERS TO GRADE WITH FRAMES & SECURED COVERS TO PREVENT UNAUTHORIZED ACCESS. OTHER OPENINGS ON TANK SHALL HAVE WATER TIGHT RISER AND COVER TO WITHIN 6" OF GRADE.
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8. DIMENSIONS SHOWN IN FEET UNLESS OTHERWISE NOTED.
9. VERTICAL DATUM NAVD 1988.
10. PRE-TREATMENT MAY BE REQUIRED IN ACCORDANCE WITH LOCAL BOARD OF HEALTH REGULATIONS SHOULD THE RESERVE SOIL ABSORPTION SYSTEM BE PUT INTO SERVICE.
11. RETAINING WALL SHALL BE DESIGNED BY A MASSACHUSETTS REGISTERED PROFESSIONAL STRUCTURAL ENGINEER.

LEGEND

Existing	
	EXISTING GRADE CONTOURS
	TREE LINE
	WETLAND BOUNDARY
	WETLAND FLAG
	100' BUFFER ZONE
	LOT LINE
	PERCOLATION TEST
	SOIL TEST PIT
Proposed	
	PROPOSED CONTOURS
	TREE LINE
	EROSION CONTROL
	WATER LINE
	FOUNDATION DRAIN
	CULVERT
	EDGE OF PAVEMENT
	WELL
	BUILDING
	ELEVATION
	BASEMENT FLOOR
	BITUMINOUS CONCRETE
	LENGTH
	INVERT
	PERFORATED PVC
	POLYVINYL CHLORIDE
	SCHEDULE
	SLOPE
	TOP OF FOUNDATION

SCALE: 1" = 20'



**EXTENSION
APPROVED**
WEST NEWBURY
BOARD OF HEALTH

Signature
DATE: MAY 4 2017



297 ELM STREET, AMESBURY, MA.
Phone: (978) 388-2157 FAX: (978) 388-0428
CONSULTING ENGINEERS &
LAND SURVEYORS SINCE 1975
Visit us on the WEB at www.cammett.com

Sheet Title:

Site Plan 1 of 2

Project Title:

**SANITARY DISPOSAL
SYSTEM**
153 MIDDLE STREET
WEST NEWBURY, MA
ESSEX COUNTY

Applicant:

Tom Cook, Jr.
28 MEADOWVIEW RD
GEORGETOWN, MA 01833

Owner:

Haddock Realty Trust
157 MIDDLE STREET
WEST NEWBURY, MA 01985

REVISION

NO.	DATE	DESCRIPTION	BY
A	4.10.17	BOH COMMENTS, NOI	RB

APPROVED
WEST NEWBURY
BOARD OF HEALTH

DATE: MAY 09 2017

RECEIVED
APR 11 2017
BOARD OF HEALTH

PROJ. MGR: R. Blanchette

FIELD: A. Buck/M. Michaud

DESIGN: R. Blanchette

DRAWN: R. Blanchette

CHECKED: W. Cammett

DATE: 5-31-16

FILE: K:\115058 LOT 5 SD.dwg

FBK:

JOB #: 15058

SHEET 1 of 3

153 Middle

Deep Observation Hole Number: TP 19-5
Date of Testing: July 23, 2019
Soil Evaluator: Greg Hochmuth/SE2825
Board of Health: Paul Sevigny

Depth (in.)	Soil Horizon/Layer	Soil Matrix: Color-Moist (munsell)	Redoximorphic Features (mottles)	Soil Texture (USDA)	Coarse Fragments % by Volume	Soil Structure	Soil Consistence (Moist)	Other
Depth	Color	Percent			Gravel	Cobbles & Stones		
0-10	Ap	10YR 3/2		FSL			GR	W
10-17	Bw	10YR 5/6		FSL			M	VFR
17-28	C1	2.5Y 5/6		SL			M	VFR
28-38	C2	2.5Y 5/4	30"	SL	5%		M	FR
38-111	C3	2.5Y 5/4	5Y 5/2	SL	10%		SBK	FI

Percolation Test Number: P-3
Depth of Percolation Test: 27"±18" Measured Rate (min./in.) 5 MPI

Deep Observation Hole Number: TP 19-7
Date of Testing: July 23, 2019
Soil Evaluator: Greg Hochmuth/SE2825
Board of Health: Paul Sevigny

Depth (in.)	Soil Horizon/Layer	Soil Matrix: Color-Moist (munsell)	Redoximorphic Features (mottles)	Soil Texture (USDA)	Coarse Fragments % by Volume	Soil Structure	Soil Consistence (Moist)	Other
Depth	Color	Percent			Gravel	Cobbles & Stones		
0-9	Ap	10YR 3/2		FSL			GR	W
9-27	Bw	10YR 5/6		FSL			SBK	W
27-39	C1	2.5Y 5/6	29"	SL			M	FR
39-104	C2	2.5Y 5/4	5Y 5/2	SL	10%		SBK	FI

Percolation Test Number: P-4
Depth of Percolation Test: 32"±18" Measured Rate (min./in.) 10 MPI

SEGMENT	DIA (IN.)	MATERIAL (4) (5)	MIN. SLOPE (IN./FT.)
BUILDING TO SEPTIC TANK	4	PVC SCH40, ASTM D1785	1/4
SEPTIC TANK TO D-BOX	4	PVC SCH40, ASTM D1785	1/8
D-BOX TO SOIL ABSORPTION AREA	4	PVC SCH40, ASTM D1785	1/8 (2)
SOIL ABSORPTION AREA	4	PERFORATED (3), SCH40, ASTM D1785 (FOR GRAVITY SYSTEM ONLY)	1/16 (2)

- (1) ALL PIPE SHALL BE PROPERLY BEDDED, HAUNCHED, BACKFILLED. ALL JOINTS SHALL BE WATERTIGHT.
- (2) PIPE SHALL BE LAID LEVEL, FIRST 2 FEET DOWNSTREAM FROM DISTRIBUTION BOX.
- (3) PERFORATIONS DOWN AT 5 AND 7 O'CLOCK (FOR GRAVITY SYSTEMS).
- (4) UNLESS OTHERWISE SPECIFIED ON FLOW PROFILE.

PIPE SPECIFICATIONS (310 CMR 15.251)

Deep Observation Hole Number: TP 19-6
Date of Testing: July 23, 2019
Soil Evaluator: Greg Hochmuth/SE2825
Board of Health: Paul Sevigny

Depth (in.)	Soil Horizon/Layer	Soil Matrix: Color-Moist (munsell)	Redoximorphic Features (mottles)	Soil Texture (USDA)	Coarse Fragments % by Volume	Soil Structure	Soil Consistence (Moist)	Other
Depth	Color	Percent			Gravel	Cobbles & Stones		
0-10	Ap	10YR 3/2		FSL			M	VFR
10-18	Bw	10YR 5/6		FSL			M	VFR
18-29	C1	2.5Y 5/6		SL			GR	L
29-44	C2	2.5Y 5/4	34"	SL	5%		GR	L
44-103	C3	2.5Y 5/4	5Y 5/2	SL	10%		SBK	FI

Percolation Test Number:
Depth of Percolation Test: Measured Rate (min./in.)

Ground Surface Elevation = 65.5±
ESHGWT down 34" at elevation = 62.67

Depth (in.)	Soil Horizon/Layer	Soil Matrix: Color-Moist (munsell)	Redoximorphic Features (mottles)	Soil Texture (USDA)	Coarse Fragments % by Volume	Soil Structure	Soil Consistence (Moist)	Other
Depth	Color	Percent			Gravel	Cobbles & Stones		
0-9	Ap	10YR 3/2		FSL			GR	W
9-20	Bw	10YR 5/6		FSL			SBK	W
20-102	C	2.5Y 5/6	29"	SL			M	FR
			5Y 5/2	SL	20%			

Percolation Test Number:
Depth of Percolation Test: Measured Rate (min./in.)

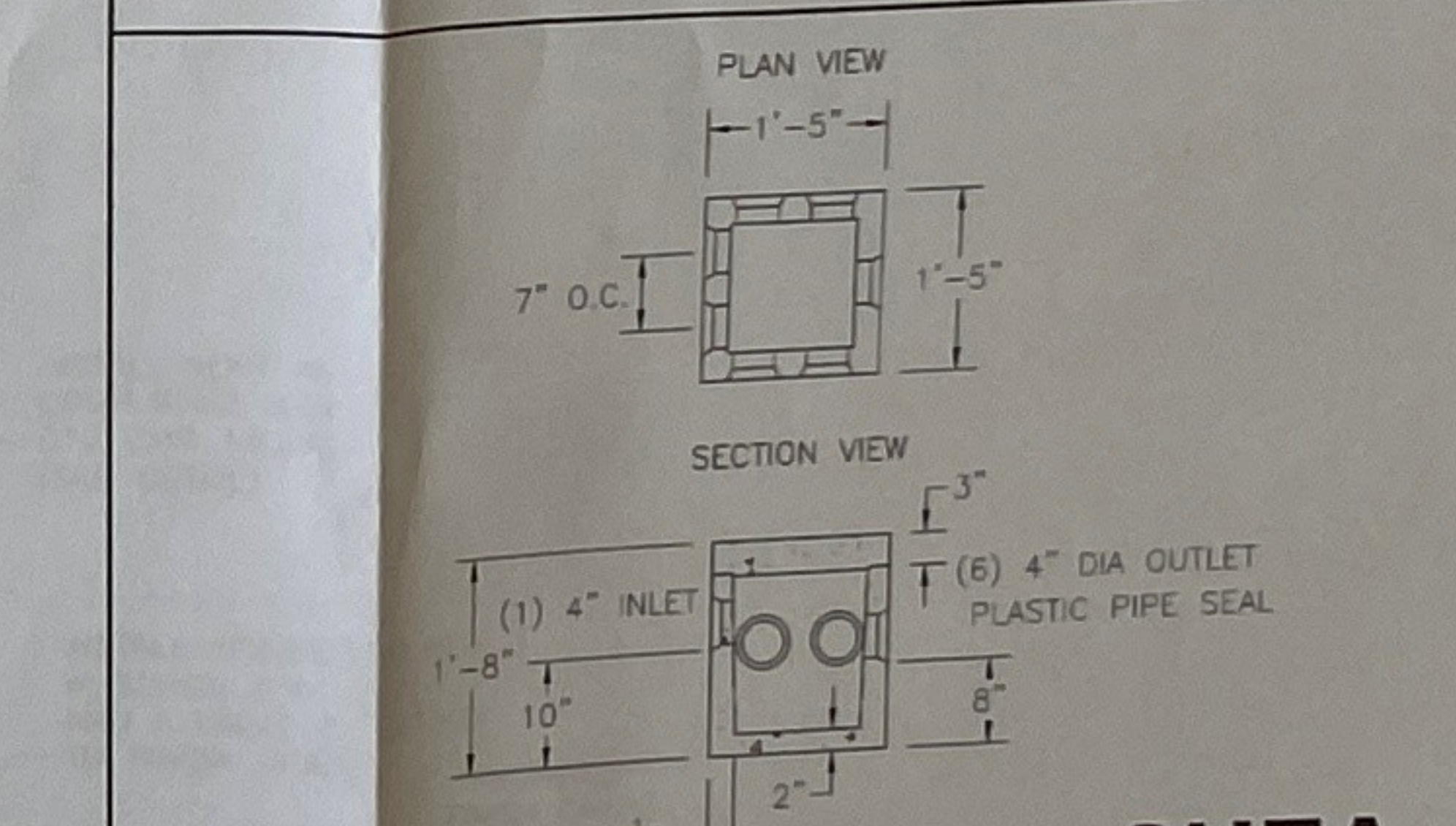
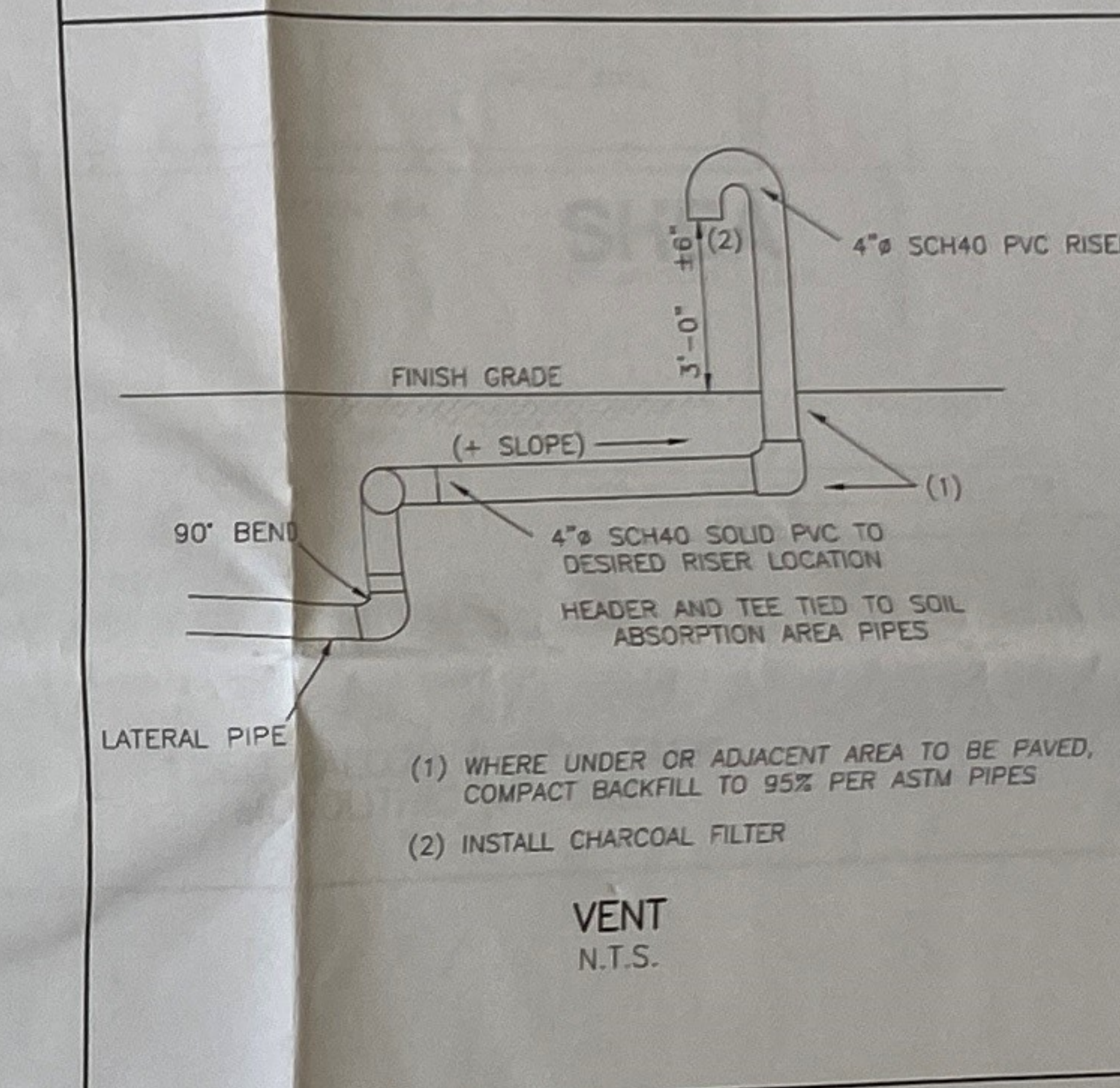
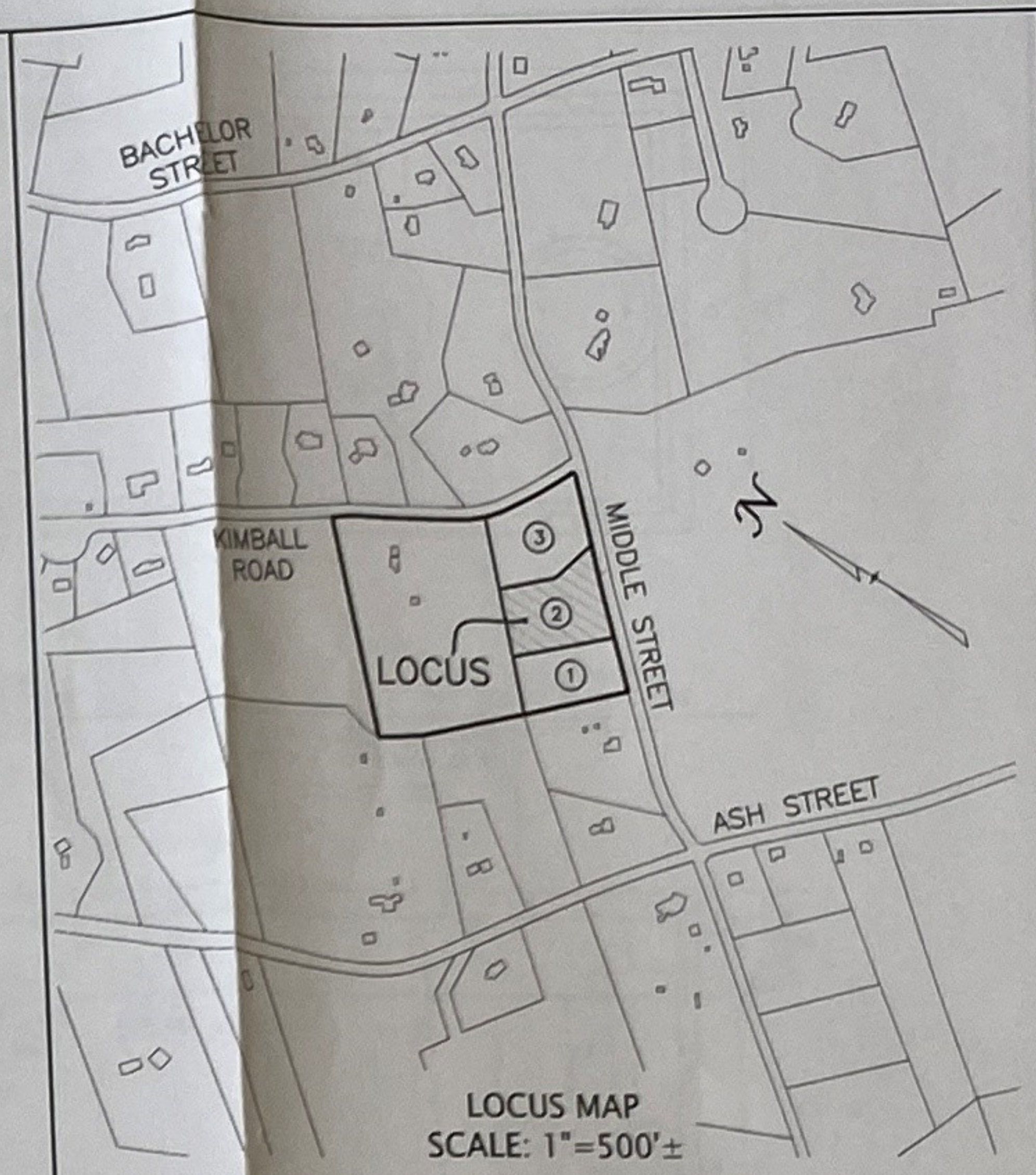
Ground Surface Elevation = 67.8±
ESHGWT down 29" at elevation = 65.38

Depth (in.)	Soil Horizon/Layer	Soil Matrix: Color-Moist (munsell)	Redoximorphic Features (mottles)	Soil Texture (USDA)	Coarse Fragments % by Volume	Soil Structure	Soil Consistence (Moist)	Other
Depth	Color	Percent			Gravel	Cobbles & Stones		
0-9	Ap	10YR 3/2		FSL			GR	W
9-20	Bw	10YR 5/6		FSL			SBK	W
20-102	C	2.5Y 5/6	29"	SL			M	FR
			5Y 5/2	SL	20%			

Percolation Test Number:
Depth of Percolation Test: Measured Rate (min./in.)

TABLE OF PROPOSED SEPTIC SYSTEM INVERTS (INV)

- INV. AT FOUNDATION = 71.62
- SEPTIC TANK INV. IN = 70.91
- SEPTIC TANK INV. OUT = 70.66
- DISTRIBUTION BOX INV. IN = 70.55
- DISTRIBUTION BOX INV. OUT = 70.38
- LEACH BED START = 70.17
- LEACH BED END = 70.00
- BOTTOM OF BED = 69.50

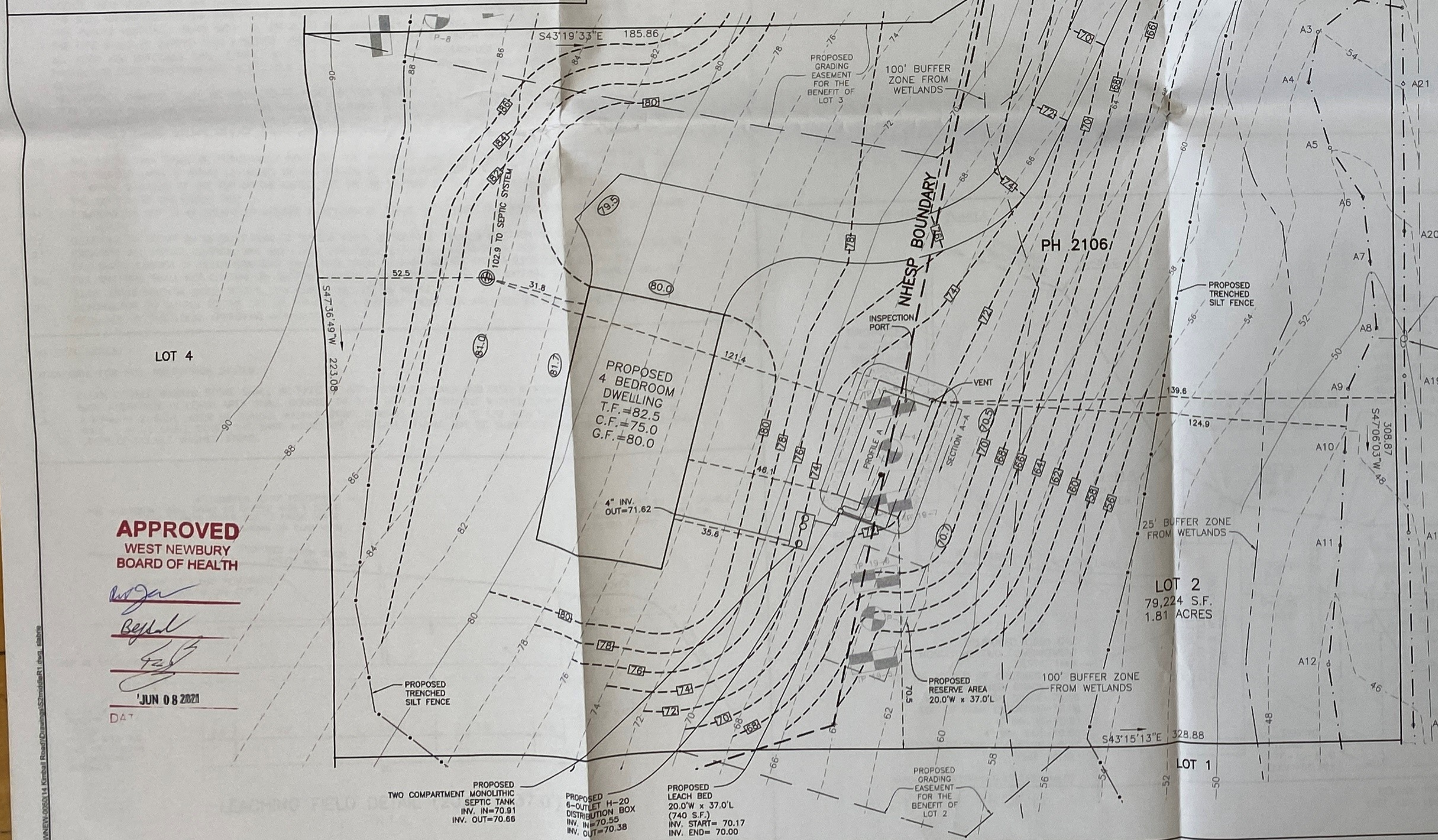


ITEM NO.	DESCRIPTION	WEIGHT
1	4" SCH40 PVC RISER	432#
2	4" SCH40 SOLID PVC TO DESIRED RISER LOCATION	151#

6 OUTLET H-20 DISTRIBUTION BOX N.T.S.

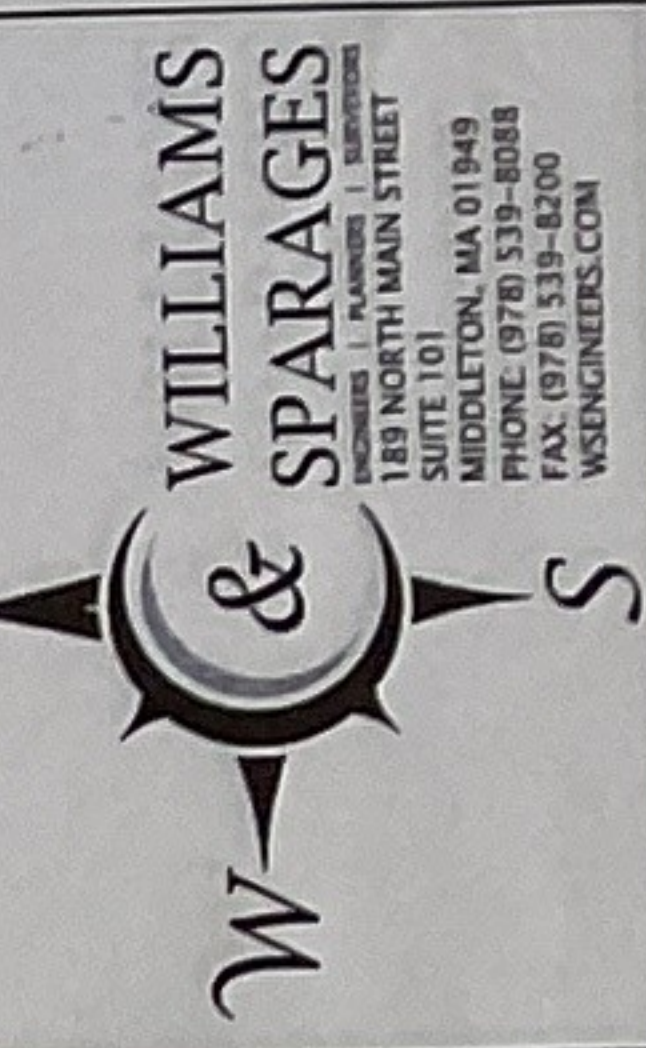
CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
DESIGN CONFORMS WITH 310 CMR 15.000.
DESIGN TITLE 5 REGS. FOR DISTRIBUTION BOXES.
CONTRACTOR SHALL INSURE THAT ALL INLETS AND OUTLETS ARE MADE WATERTIGHT.
CONTRACTOR SHALL INSURE THAT DISTRIBUTION BOXES ARE SET ON A MINIMUM OF 6" OF MECHANICALLY COMPACT CRUSHED STONE.
THE INVERT ELEVATION OF ALL OUTLETS SHALL BE EQUAL TO EACH OTHER AND LOCATED AT LEAST 2" BELOW THE INVERT OF THE INLET.
INLET TEES IN DISTRIBUTION BOXES SHALL BE INSTALLED IN ACCORDANCE TO 310 CMR 15.232 (3)(A) TO PROVIDE 1" BETWEEN THE BOTTOM OF THE TEE AND THE OUTLET INVERT.

MIDDLE STREET (PUBLIC - VARIABLE WIDTH)



APPROVED
WEST NEWBURY
BOARD OF HEALTH

[Signature]
JUN 08 2021
D.A.T.



Owner/Applicant:
Graf Realty Trust
14 Kimball Road
West Newbury, MA 01985
508-641-7251

Designed By: MRP
Drawn By: MRP
Reviewed By: GH
Project Manager: GH
Job File Number: WNW-0050A
Drawing File Folder: WNW50



SEAL

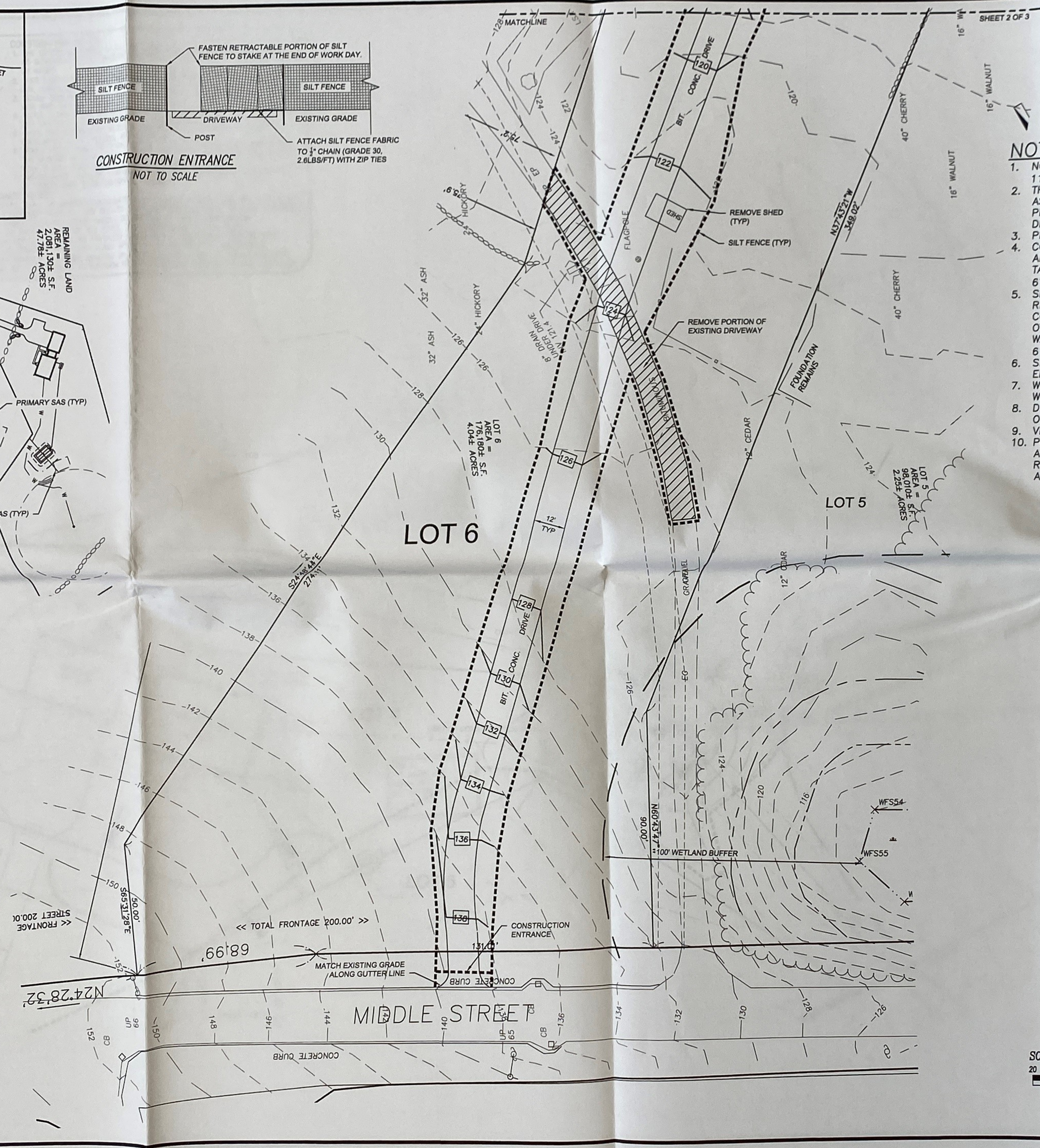
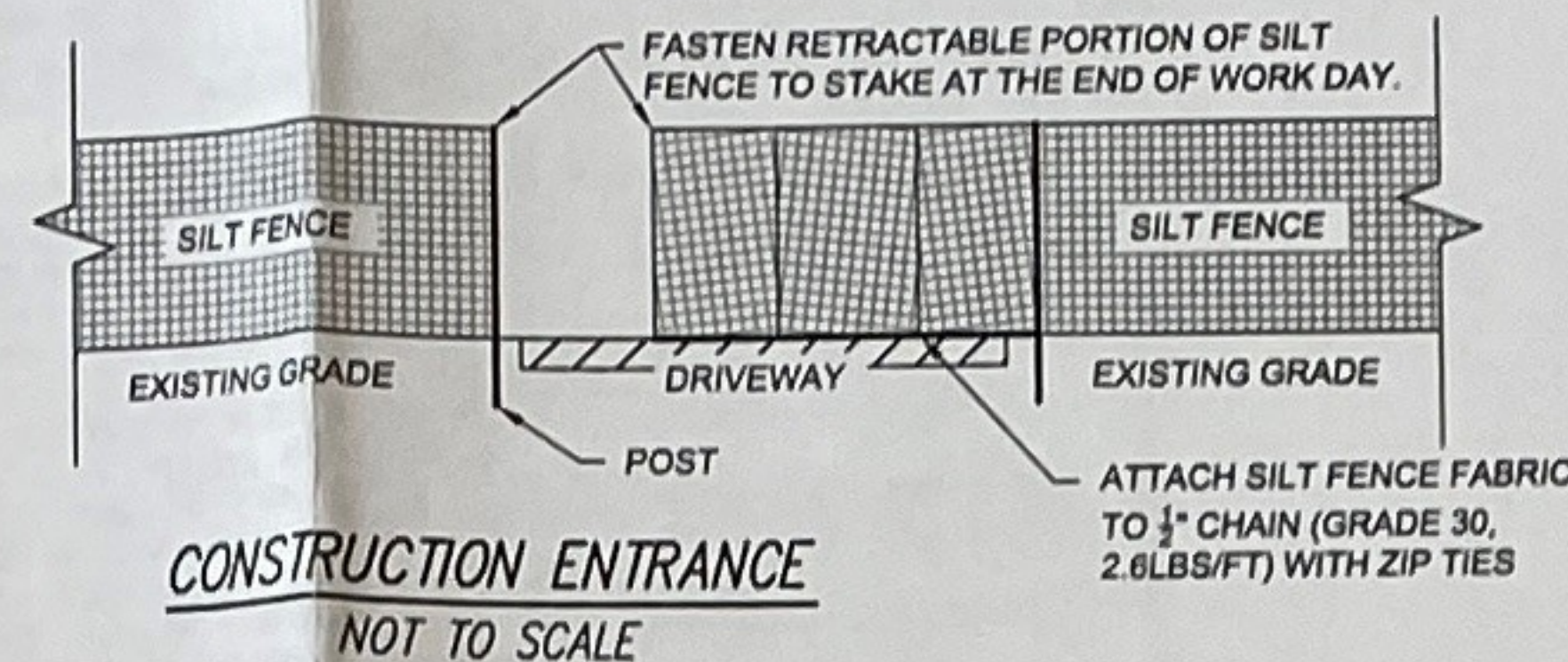
SANITARY DISPOSAL SYSTEM DESIGN PLAN #14 KIMBALL ROAD, SUBDIVISION LOT 2, WEST NEWBURY

REVISION	DATE	BY	REASON
1	4/1/2021		
2			
3			
4			
5			
6			

DRAWING: S-1
SHEET 1 OF 2

RECEIVED
APR 22 2021
20-27
BOARD OF HEALTH

154 middle

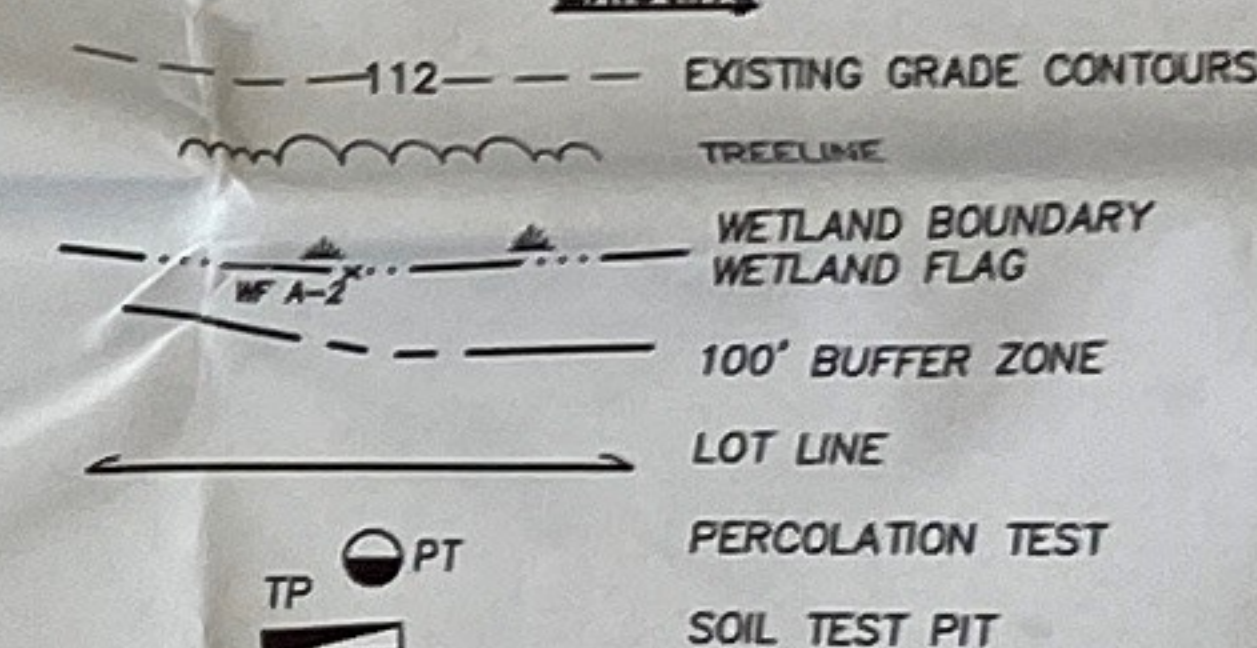


NOTES

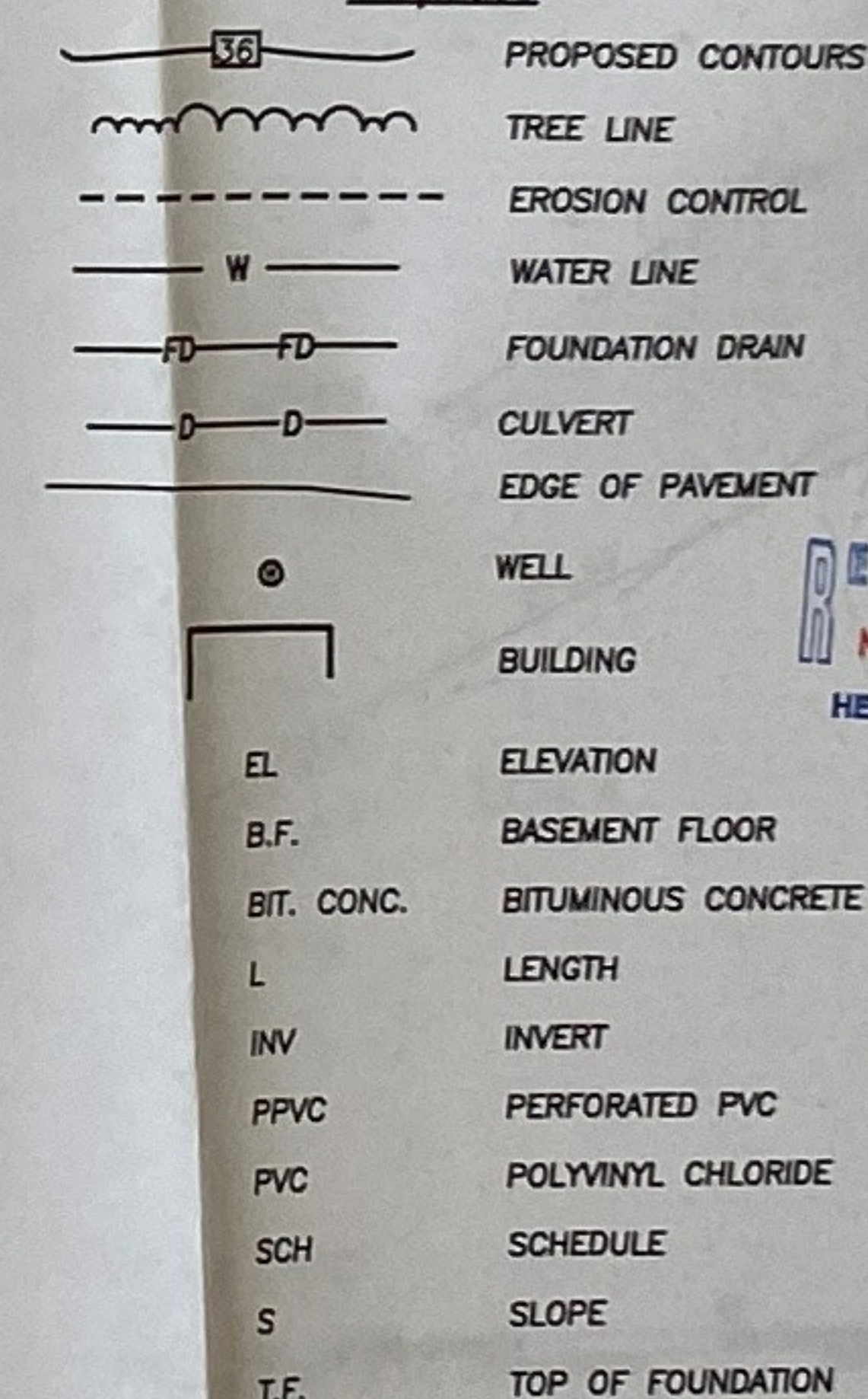
1. NO ABUTTING WELLS ARE LOCATED WITHIN 110' OF PROPOSED DISPOSAL AREA.
2. THE PARCEL SHOWN HEREON IS IDENTIFIED AS LOT 6 AS SHOWN ON THE ESSEX BOOK 458, PLAT 50 ON FILE AT THE ESSEX SOUTH DISTRICT REGISTERED DEEDS.
3. PROPERTY OWNER: BE 1552 PG. 229
4. CONTRACTOR TO INSTALL MAGNETIC TAPE ABOVE ALL COMPONENTS OF SEPTIC SYSTEM. TAPE TO BE INSTALLED AT A DEPTH OF 6"-12".
5. SEPTIC TANK TO USE TWO WATER TIGHT RISERS TO GRADE WITH FRAMES & SECURED COVERS TO PREVENT UNAUTHORIZED ACCESS. OTHER OPENINGS ON TANK SHALL HAVE WATER TIGHT RISER AND COVER TO WITHIN 6" OF GRADE.
6. SEPTIC TANK TO BE PROVIDED WITH EFFLUENT FILTER.
7. WETLAND BOUNDARY DELINEATED BY WETLANDS PRESERVATION, INC.
8. DIMENSIONS SHOWN IN FEET UNLESS OTHERWISE NOTED.
9. VERTICAL DATUM NAVD 1988.
10. PRE-TREATMENT MAY BE REQUIRED IN ACCORDANCE WITH LOCAL BOARD OF HEALTH REGULATIONS SHOULD THE RESERVE SOIL ABSORPTION SYSTEM BE PUT INTO SERVICE.

LEGEND

Existing



Proposed



SCALE: 1"=20'

The graphic scale bar consists of two horizontal segments. The top segment is labeled with '20', '10', and '0' from left to right, and '20', '40', and '60' from left to right. The bottom segment is labeled with '5', '10', and '15' from left to right. The right end of the top segment is labeled 'FEET' and the right end of the bottom segment is labeled 'METERS'.

TOLL FREE
1-888-DIG-SAFE
(1-888-344-7233)

**EXTENSION
APPROVED**
WEST NEWBURY
BOARD OF HEALTH

APPROVED
WEST NEWBURY
BOARD OF HEALTH

MAY 09 2017

DATE _____



297 ELM STREET, AMESBURY, MA.
Phone: (978) 388-2157 Fax: (978) 388-0428
CONSULTING ENGINEERS &
LAND SURVEYORS SINCE 1975
Visit us on the WEB at www.cammett.com

Sheet Title

Site Plan
1 of 2

Project Title

SANITARY DISPOSAL SYSTEM

155 MIDDLE STREET
WEST NEWBURY, MA
ESSEX COUNTY

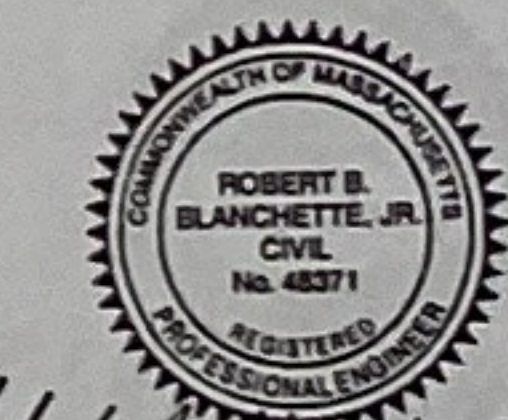
Applicant

Tom Cook, Jr.
28 MEADOWVIEW RD
GEORGETOWN, MA 01833

Owner

Haddock Realty Trust
157 MIDDLE STREET
WEST NEWBURY, MA 01985

REVISION

[illegible]

Date: 9-May-2017

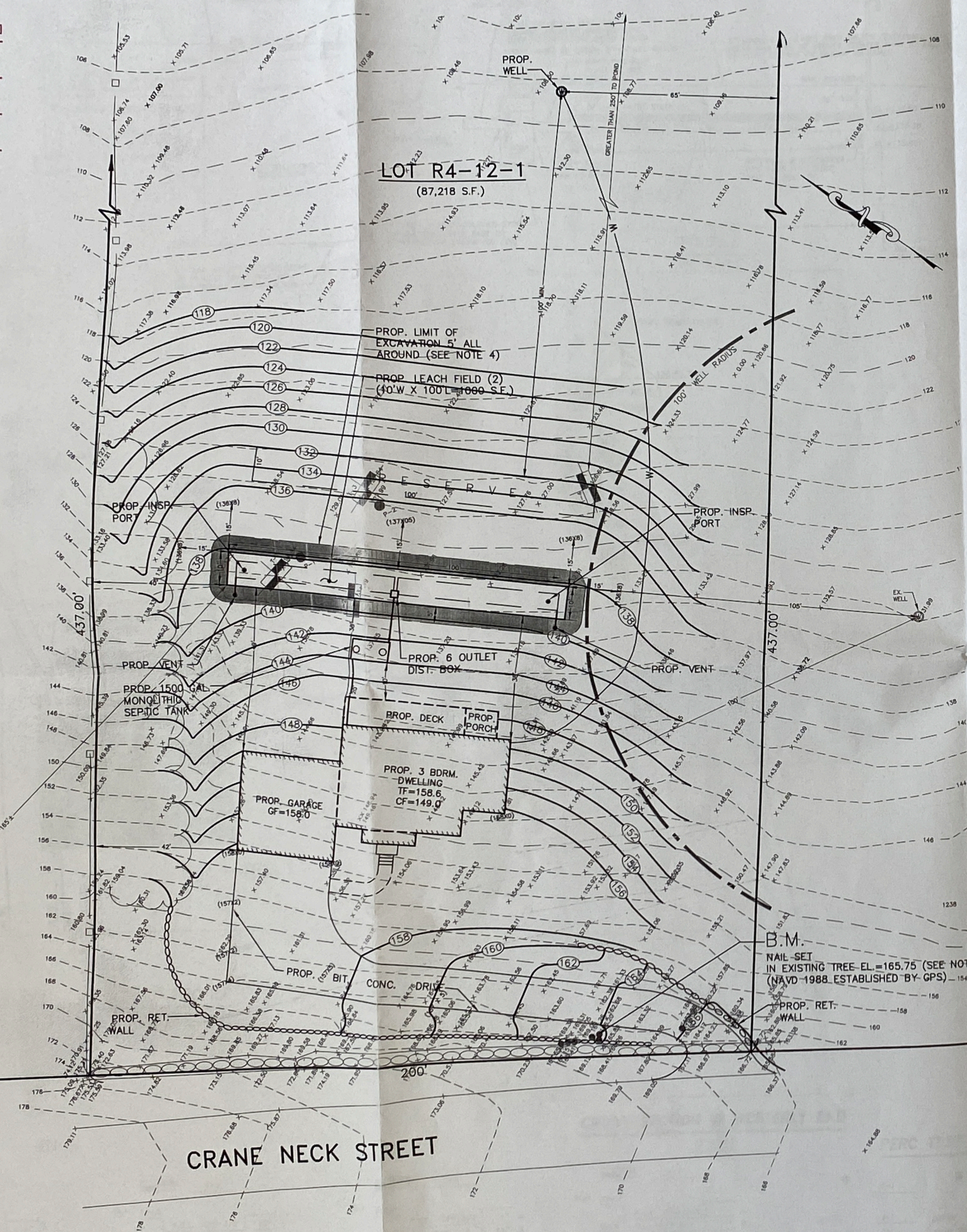
PROJ. MGR.:	R. Blanchette
FIELD:	A. Bick/ M. Michaud
DESIGN:	R. Blanchette
DRAWN:	N. Koch
CHECKED:	R. Blanchette, W. Cammett
DATE:	5-31-16
FILE:	K:\...15058 LOT 6 5D.dwg
FBK:	
JOB #:	15058

SHEET 1 of 3

155 Middle

5/11/21
MAY 4 2021
APPROVED
EXTENSION
WEST NEWBURY
BOARD OF HEALTH

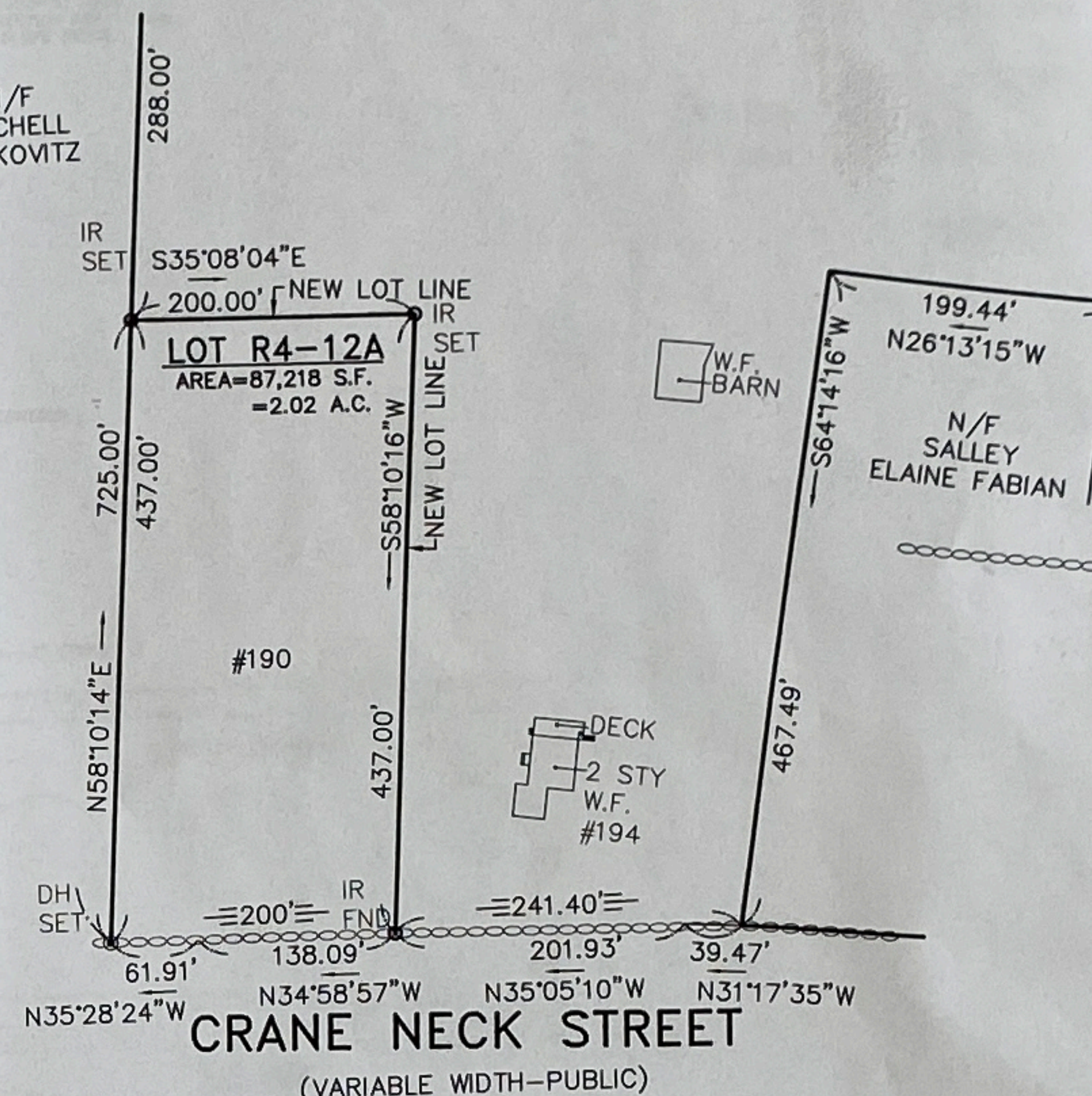
DATE FEB 24 2022
 APPROVED
 WEST NEWBURY
 BOARD OF HEALTH



PLAN
 SCALE: 1" = 20'

DEEP TESTS AND RESULTS ARE PROVIDED TO DEMONSTRATE SOIL SUITABILITY FOR THE PURPOSE OF COMPLIANCE WITH TITLE 5 AND WERE NOT INTENDED TO BE USED FOR CONSTRUCTION ESTIMATING. THE DEPTH OF EXCAVATION MAY NOT BE REFLECTED IN THESE RESULTS AND SHOULD BE DETERMINED IN THE FIELD BY THE CONTRACTOR. ANY USE OF THESE RESULTS FOR ESTIMATING PURPOSES SHALL BE DONE SO AT THE CONTRACTORS RISK.

N/F MITCHELL SALKOVITZ

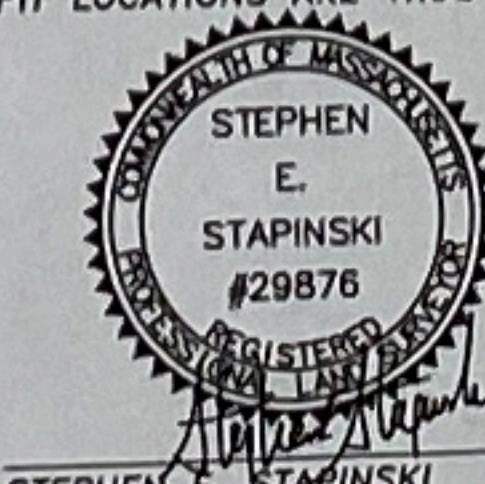


KEY MAP
 SCALE: 1" = 100'

SUMMARY OF INVERTS	
INV. @ FDN.	147.50
SEPTIC TANK IN	141.25
SEPTIC TANK OUT	141.00
DIST. BOX IN	136.80
DIST. BOX OUT	136.63
INV. BEG FIELD	136.55
INV. END FIELD	136.30

ADDITIONAL TOPO SURVEY WAS PERFORMED ALONG THE WESTERLY PROPERTY LINE. THE TEST PIT LOCATIONS WERE MUCH MORE EVIDENT AS THEY HAD SETTLED AND THE DEPRESSIONS WERE VISIBLE. TOPO SHOTS WERE TAKEN AT THE MID GRADE OF EACH TEST LOCATION.

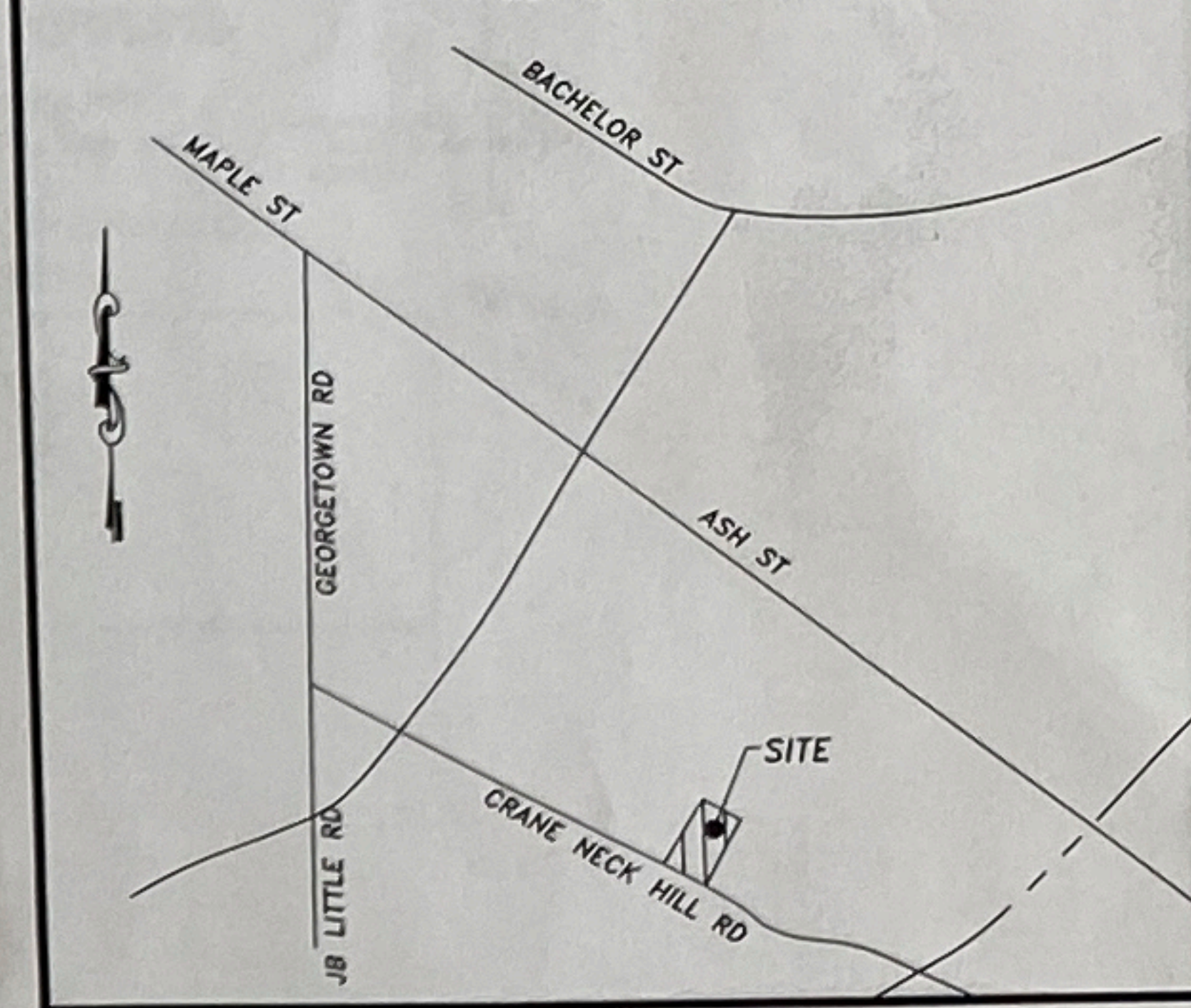
I HEREBY CERTIFY THE TOPOGRAPHY, WELL AT #194 AND TEST PIT LOCATIONS ARE TRUE AND ACCURATE AS SHOWN ON THIS PLAN.



STEPHEN E. STAPINSKI P.L.S. 2/18/22 DATE

NO.	DATE	BY	REVISIONS:
1	2-18-22	WRD	PER B.O.H. LETTER DATED 2-18-22

LOCUS MAP NOT TO SCALE



NOTES

- ALL FILL BENEATH THE SOIL ABSORPTION SYSTEM SHALL BE IN CONFORMANCE WITH 310 CMR 15.255 (3).
- ALL STONE TO BE DOUBLE WASHED AS NECESSARY AND FREE OF IRON, FINES, AND DUST.
- THIS SYSTEM IS NOT DESIGNED FOR USE WITH A GARBAGE GRINDER.
- REMOVE ALL TOPSOIL, ROOTS AND SUBSOIL AND REPLACE WITH SPECIFIED FILL WITHIN 5 FEET OF SYSTEM. FILL SHALL BE IN CONFORMANCE WITH CMR 15.255 (3).
- COVER MATERIAL OVER THE SYSTEM SHALL BE FREE OF CLAY, STONES, MASONRY, STUMPS, OR WASTE CONSTRUCTION MATERIAL. THE TOP 3" SHALL BE LOADED AND SURFACE SEEDED. MACHINERY WHICH MAY CRUSH OR DISTURB THE ALIGNMENT OF THE PIPES IN THE DISPOSAL AREA SHALL NOT BE ALLOWED.
- FOUNDATION DRAINS ARE NOT TO BE INSTALLED WITHIN 10' FT. OF THE SEPTIC TANK NOR WITHIN 10' FT. OF THE SOIL ABSORPTION SYSTEM.
- ALL PIPING SHALL BE LAID STRAIGHT ON CONTINUOUS GRADE AND SHALL HAVE WATERTIGHT JOINTS.
- PROPERTY LINES SHOWN WERE TAKEN FROM EXISTING PLANS AND RECORDS. SEE S.E.D.R.D. BK. 39,992 PG. 527.
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES WAS TAKEN FROM EXISTING PLANS AND RECORDS OR FROM FIELD OBSERVATIONS AND MARKINGS AND ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE CONSTRUCTION BEGINS. THE DESIGN ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES SO THAT REMEDIAL ACTION CAN BE TAKEN.
- THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER 48 HRS. IN ADVANCE OF BED EXCAVATION AND COMPLETION SO THAT REQUIRED INSPECTIONS CAN OCCUR.
- THE CONTRACTOR SHALL BE FINANCIALLY RESPONSIBLE FOR THE AS-BUILT INSPECTIONS AND PLAN. THIS SERVICE SHALL BE INCLUDED AS PART OF THE CONSTRUCTION CONTRACT.
- NO PRIVATE WELLS EXIST WITHIN 100 FT. NOR ANY PUBLIC WELLS OR DRINKING WATER SUPPLIES WITHIN 400 FT. OF THE SYSTEM.
- NO WETLANDS EXIST WITHIN 100 FT OF THE PROPOSED SYSTEM.
- THIS SYSTEM DESIGN, ALL MATERIALS AND COMPONENTS AND ALL INSTALLATION PROCEDURES SHALL BE AND ARE INTENDED TO BE IN FULL CONFORMANCE WITH TITLE 5, MINIMUM REQUIREMENTS FOR THE SUBSURFACE DISPOSAL OF SANITARY SEWAGE, 310 CMR 15.001 THROUGH 15.505.
- A T.B.M. SHALL BE SET BY MES ON THE TOP OF FOUNDATION WHEN THE FOUNDATION CERTIFICATION SURVEY IS DONE. IF A T.B.M. IS SET ON THE EXISTING GROUND NOW WITHIN 50 FEET OF THE SYSTEM IT WILL BE DESTROYED DUE TO THE HORIZONTAL AND VERTICAL EXTENT OF THE SITE WORK AND FILLING.

DESIGN CALCULATIONS

DESIGN FLOW = 3 BEDROOMS x 110 GAL/DAY = 330 GPD
 DESIGN PERC RATE: 30 M.P.I.
 SOIL CLASS: II
 DESIGN FOR LEACH FIELD (SEE DETAIL)
 LEACHING AREA REQUIRED = 330 GAL x 1/33 GPD/S.F. = 1000 S.F.
 LEACHING AREA PROVIDED: 10' WIDE x 100' LONG = 1000 S.F.
 SEPTIC TANK REQUIRED: 200% x 330 GAL = 660 GAL, BUT NOT LESS THAN 1500 GAL
 SEPTIC TANK PROVIDED: 1500 GAL

I CERTIFY THAT ON MAY 9, 1996, I PASSED THE EXAMINATION APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THAT THE ABOVE ANALYSIS WAS PERFORMED BY ME CONSISTENT WITH THE REQUIRED TRAINING, EXPERTISE AND EXPERIENCE DESCRIBED IN 310 CMR 15.017.

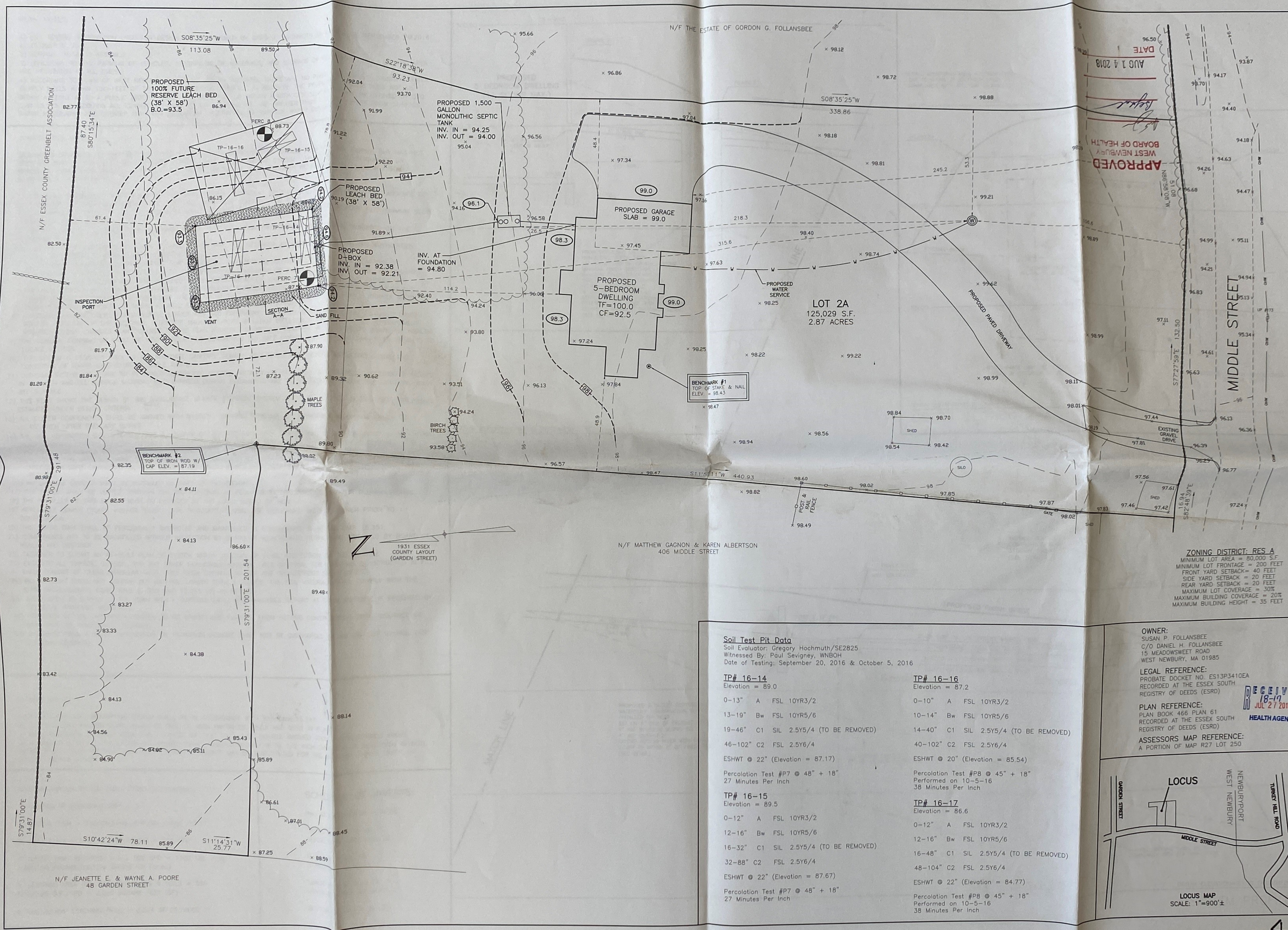
SIGNATURE *William D. Doherty* DATE 2-5-22

PLAN OF
 SUBSURFACE SEWAGE DISPOSAL SYSTEM
 IN
 WEST NEWBURY, MASS.
 AS PREPARED FOR
 MARK GRABOWSKI
 190 CRANE NECK STREET

SCALE: AS SHOWN
 ASSESSORS MAP # R4 PARCEL 12A
 DATE: 2-5-22
 SUBDIVISION LOT # R4-12-1

MERRIMACK ENGINEERING SERVICES
 66 PARK STREET
 ANDOVER, MASSACHUSETTS 01810 SHT 1 OF 2
 (978) 475-3555

190 Crane Neck



Soil Test Pit Data
 Soil Evaluator: Gregory Hochmuth/SE2825
 Witnessed By: Paul Seigney, WNBOH
 Date of Testing: September 20, 2016 & October 5, 2016

TP# 16-14
 Elevation = 89.0
 0-13" A FSL 10YR3/2
 13-19" Bw FSL 10YR5/6
 19-46" C1 SIL 2.5Y5/4 (TO BE REMOVED)
 46-102" C2 FSL 2.5Y6/4
 ESHWT @ 22" (Elevation = 87.17)
 Percolation Test #P7 @ 48" + 18"
 27 Minutes Per Inch

TP# 16-15
 Elevation = 89.5
 0-12" A FSL 10YR3/2
 12-16" Bw FSL 10YR5/6
 16-32" C1 SIL 2.5Y5/4 (TO BE REMOVED)
 32-88" C2 FSL 2.5Y6/4
 ESHWT @ 22" (Elevation = 87.67)
 Percolation Test #P7 @ 48" + 18"
 27 Minutes Per Inch

TP# 16-16
 Elevation = 87.2
 0-10" A FSL 10YR3/2
 10-14" Bw FSL 10YR5/6
 14-40" C1 SIL 2.5Y5/4 (TO BE REMOVED)
 40-102" C2 FSL 2.5Y6/4
 ESHWT @ 20" (Elevation = 85.54)
 Percolation Test #P8 @ 45" + 18"
 Performed on 10-5-16
 38 Minutes Per Inch

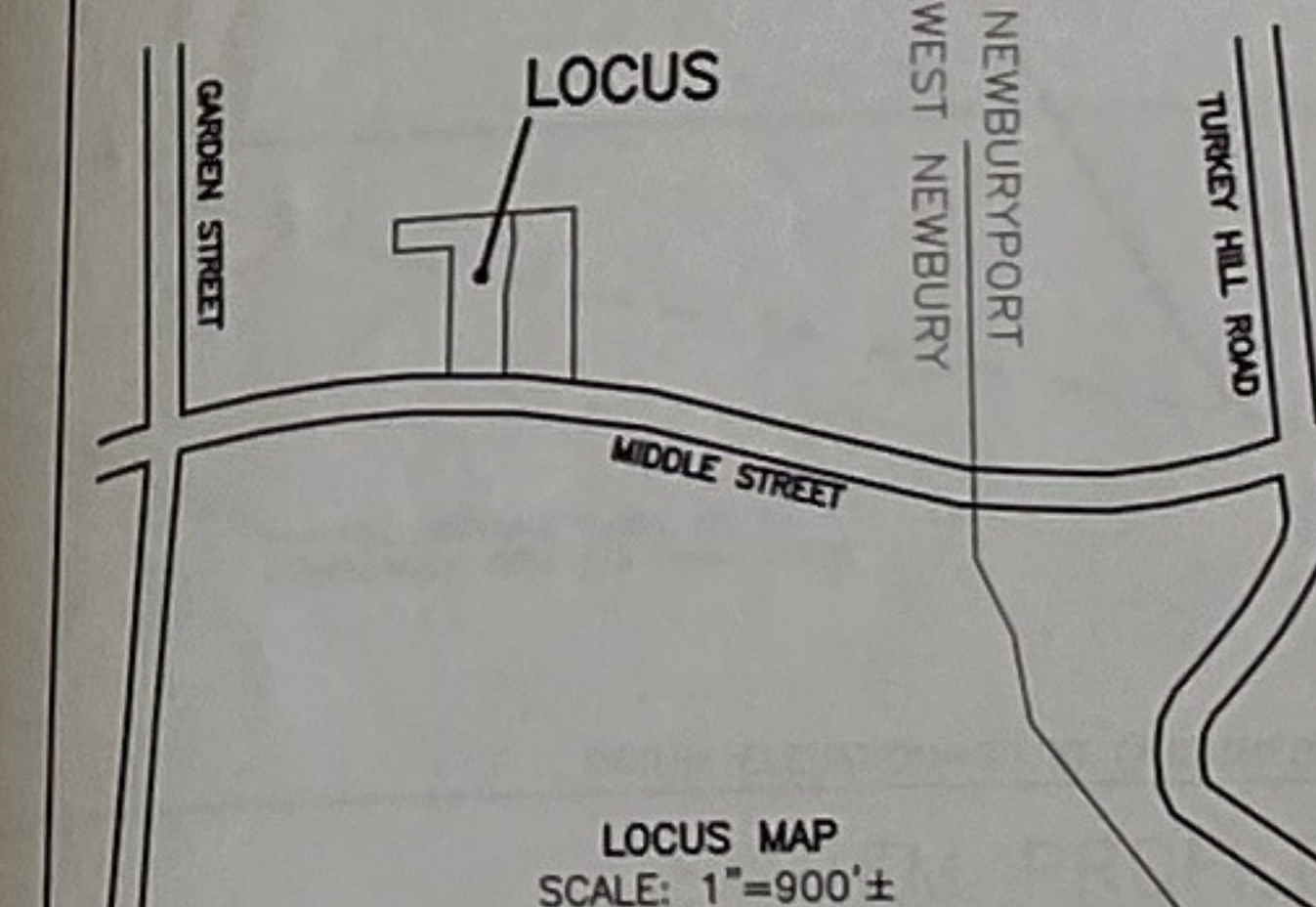
TP# 16-17
 Elevation = 86.6
 0-12" A FSL 10YR3/2
 12-16" Bw FSL 10YR5/6
 16-48" C1 SIL 2.5Y5/4 (TO BE REMOVED)
 48-104" C2 FSL 2.5Y6/4
 ESHWT @ 22" (Elevation = 84.77)
 Percolation Test #P8 @ 45" + 18"
 Performed on 10-5-16
 38 Minutes Per Inch

OWNER:
 SUSAN P. FOLLANSBEE
 C/O DANIEL H. FOLLANSBEE
 15 MEADOWSWEET ROAD
 WEST NEWBURY, MA 01985

LEGAL REFERENCE:
 PROBATE DOCKET NO. ES13P3410EA
 RECORDED AT THE ESSEX SOUTH
 REGISTRY OF DEEDS (ESRD)

PLAN REFERENCE:
 PLAN BOOK 466 PLAN 61
 RECORDED AT THE ESSEX SOUTH
 REGISTRY OF DEEDS (ESRD)

ASSESSORS MAP REFERENCE:
 A PORTION OF MAP R27 LOT 250



ZONING DISTRICT: RES A
 MINIMUM LOT AREA = 80,000 S.F.
 MINIMUM LOT FRONTAGE = 200 FEET
 FRONT YARD SETBACK = 40 FEET
 SIDE YARD SETBACK = 20 FEET
 REAR YARD SETBACK = 20 FEET
 MAXIMUM LOT COVERAGE = 30%
 MAXIMUM BUILDING COVERAGE = 20%
 MAXIMUM BUILDING HEIGHT = 35 FEET

SEPTIC SYSTEM DESIGN PLAN LOT 2A MIDDLE STREET, WEST NEWBURY, MA (A PORTION OF ASSESSORS MAP R27, LOT 250)

RECEIVED
 JUL 27 2018
 HEALTH AGENT

6
 5
 4
 3
 2
 1

0' 10' 20'
 SCALE: 1"=20'

JUNE 1, 2018

DRAWING: S-1
 SHEET 1 OF 3

412 Middle

WILLIAMS & SPARGES
 189 NORTH MAIN STREET
 SUITES 101 & 202
 WEST NEWBURY, MA 01985
 PHONE (978) 539-8088
 FAX (978) 539-8200
 WEB: WWW.WSMAINC.COM

Owner:
 Susan P. Follansbee
 C/O Daniel H. Follansbee
 15 Meadowsweet Road
 West Newbury, MA 01985

Applicant:
 Middle Street Holdings, LLC
 15 Meadowsweet Road
 West Newbury, MA 01985

Designed By: SML
Drawn By: SML
Reviewed By: GH
Project Manager: WNEW-0034
Job File Number: WNEW-0034
Drawing File Folder: WNEW-0034

☐ Drawing Issued for Review Only
☒ Drawing Issued for Permit
☐ Drawing Issued for Construction

SEAL

7/10/2018

REVISED PER BOARD OF HEALTH COMMENTS 7/10/2018

DATE

APPROVED

BOARD OF HEALTH

WEST NEWBURY

MIDDLE STREET

LOT 2A

LOT 2A

LOT 2A

LOT 2A

LOT 2A

LOT 2A

LOT 2A

LOT 2A

LOT 2A

LOT 2A

LOT 2A

LOT 2A

LOT 2A

Soil Test Pit Data
Soil Evaluator: Alan D. Roscoe
Witnessed By: Paul Sevigny, WNB0H
Date of Testing: October 15, 2015

TP# 15-01

Ledge 32" below ground surface

TP# 15-02

Ledge 58" below ground surface

TP# 15-03

Elevation = 93.6

0-6" A SL 10YR3/2
6-19" Bw SL 2.5Y4/4
19-40" C1 FSL 2.5Y5/3
40-80" C2 FSL 2.5Y4/4

ESHW T @ 24" (Elevation = 91.60)

Percolation Test #P2 @ 63" + 18"
Abandoned

TP# 15-04

Elevation = 93.4

0-12" A SL 10YR3/2
12-22" Bw FLS 10YR5/6
22-30" C1 FLS 2.5Y5/4
30-50" C2 FSL 2.5Y6/3
50-74" C3 FSL 2.5Y5/4

ESHW T @ 24" (Elevation = 91.40)

Percolation Test #P2 @ 63" + 18"
Abandoned

TP# 15-05

Elevation = 92.0

0-9" Ap SL 10YR3/3
9-15" Bw SL 2.5YR5/6
15-76" C FSL 2.5Y5/4

ESHW T @ 30" (Elevation = 89.50)

Percolation Test #P1 @ 56" + 18"
35 Minutes Per Inch

TP# 15-06

Elevation = 91.3

0-9" Ap SL 10YR3/3
9-18" Bw SL 2.5YR5/4
18-70" C FSL 2.5Y5/4

ESHW T @ 20" (Elevation = 89.64)

Percolation Test #P1 @ 56" + 18"
35 Minutes Per Inch

TP# 15-07

Elevation = 90.5

0-11" Ap FSL 10YR3/4
11-19" Bw FSL 10YR5/6
19-73" C FSL 2.5Y5/4

ESHW T @ 23" (Elevation = 88.59)

Percolation Test #P3 @ 34" + 18"
Abandoned

TP# 15-08

Elevation = 88.8

0-9" Ap FSL 10YR3/4
9-15" Bw FSL 10YR5/6
15-23" C1 FSL 10YR5/4
23-80" C2 FSL 2.5Y5/4

ESHW T @ 23" (Elevation = 86.89)

Percolation Test #P3 @ 34" + 18"
Abandoned

TP# 15-09

Elevation = 88.3

0-8" Ap FSL 10YR3/4
8-21" Bw FSL 10YR5/6
21-80" C FSL 2.5Y5/4

ESHW T @ 21" (Elevation = 86.55)

Percolation Test #P3 @ 34" + 18"
Abandoned

TP# 15-10

Elevation = 94.0

0-10" Ap SL 10YR3/3
10-18" Bw SL 2.5Y5/6
18-76" C Gravelly SL 2.5Y6/4

ESHW T @ 30" (Elevation = 91.50)

Percolation Test #P5 @ 26" + 18"
35 Minutes Per Inch

TP# 15-11

Elevation = 93.0

0-10" Ap SL 10YR3/2
10-29" Bw SL 7.5YR5/8
29-90" C Gravelly SL 2.5Y5/6

ESHW T @ 30" (Elevation = 90.50)

Percolation Test #P5 @ 26" + 18"
35 Minutes Per Inch

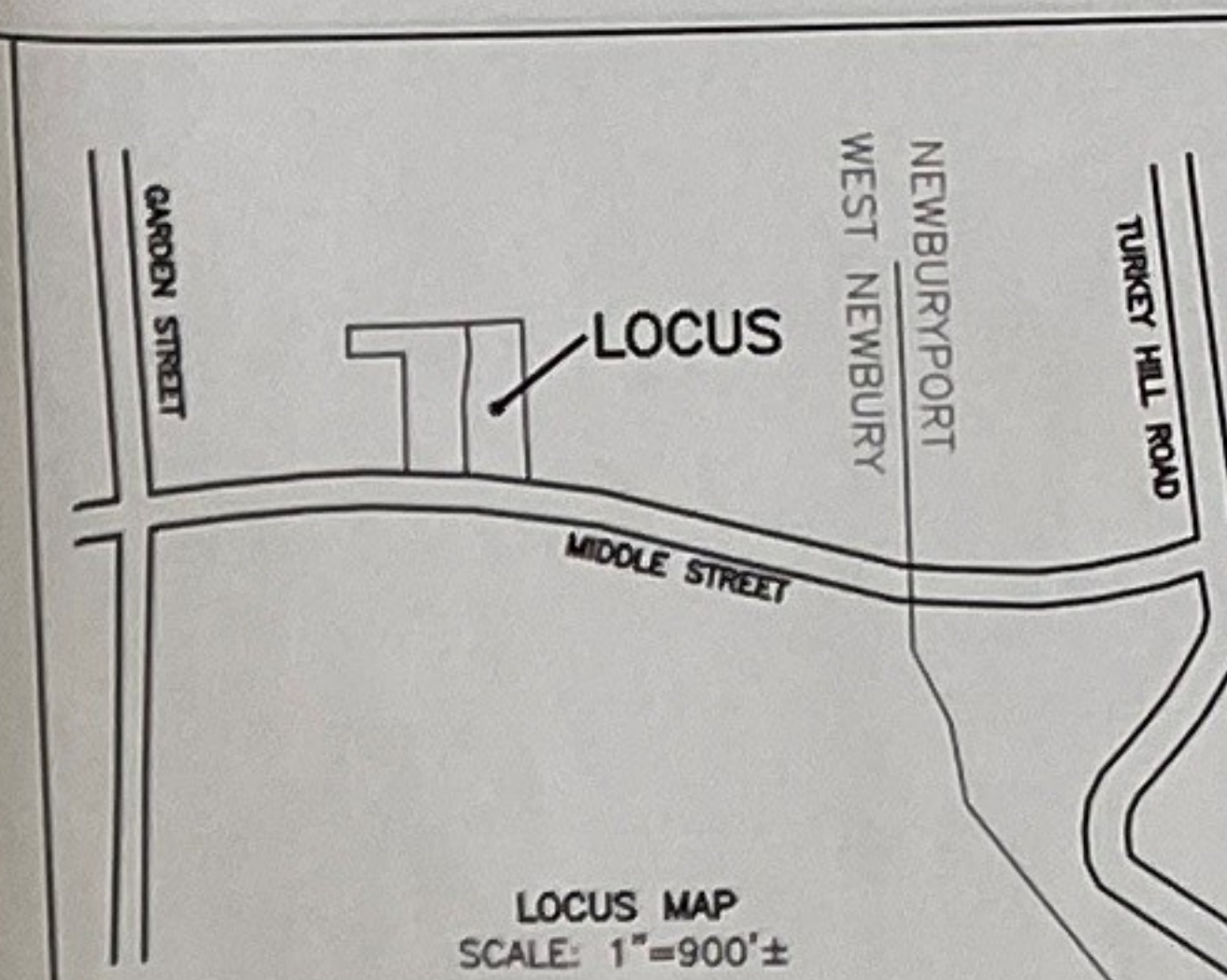
TP# 15-12

Elevation = 89.7

0-12" Ap FSL 10YR3/2
12-17" Bw FSL 7.5YR5/6
17-29" C1 FSL 2.5Y5/4
29-82" C2 FSL 2.5Y5/4

ESHW T @ 29" (Elevation = 87.29)

Percolation Test #P4 @ 32" + 18"
17 Minutes Per Inch

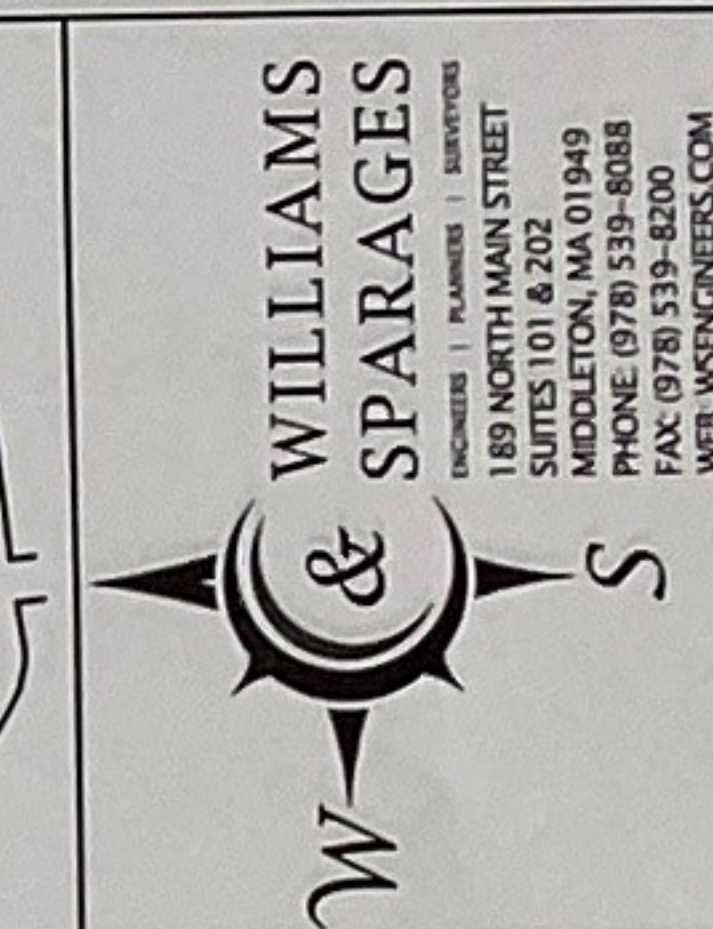


OWNER:
SUSAN P. FOLLANSBEE
C/O DANIEL H. FOLLANSBEE
15 MEADOWSWEET ROAD
WEST NEWBURY, MA 01985

LEGAL REFERENCE:
PROBATE DOCKET NO. E513P3410EA
RECORDED AT THE ESSEX SOUTH
REGISTRY OF DEEDS (ESRD)

PLAN REFERENCE:
PLAN BOOK 466 PLAN 61
RECORDED AT THE ESSEX SOUTH
REGISTRY OF DEEDS (ESRD)

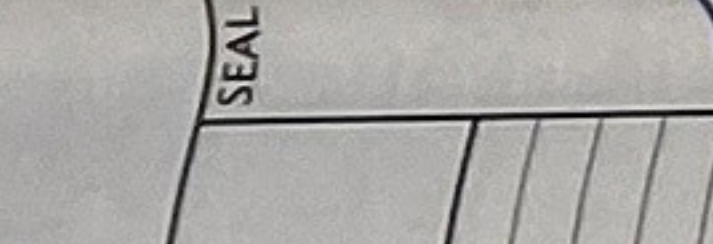
ASSESSORS MAP REFERENCE:
A PORTION OF MAP R27 LOT 250



Owner:
Susan P. Follansbee
C/O Daniel H. Follansbee
15 Meadowsweet Road
West Newbury, MA 01985

Applicant:
Middle Street Holdings, LLC
15 Meadowsweet Road
West Newbury, MA 01985

Designed By: SML
Drawn By: CJH
Reviewed By: CJH
Job File Number: WNEV-0034
Drawing File Folder:
☒ Drawing Issued for Review Only
☒ Drawing Issued for Permit
☒ Drawing Issued for Construction



APPROVED
WEST NEWBURY
BOARD OF HEALTH

[Signature]
AUG 14 2018
DATE

SEPTIC SYSTEM DESIGN PLAN
LOT 28 MIDDLE STREET, WEST NEWBURY, MA
(A PORTION OF ASSESSORS MAP R27, LOT 250)

RECEIVED
JUL 27 2018
HEALTH AGENT

414 Middle

DRAWING: S-1
SHEET 1 OF 3

JUNE 1, 2018

REVISED PER BOARD OF HEALTH COMMENTS

7/9/2018

7/9/2018

7/9/2018

7/9/2018

7/9/2018

7/9/2018

7/9/2018

7/9/2018