

SITE DATA

LOT AREA: 44.20± AC. (1,925,374± SF)
WATER SUPPLY: MUNICIPAL
SEWAGE DISPOSAL: COMMUNAL ONSITE SEWAGE DISPOSAL SYSTEM
PROPOSED STREET CLASSIFICATION: MINOR STREET
OPEN SPACE: 16.22± AC. (706,538± SF)

GENERAL NOTES

- LOCATIONS OF EXISTING UNDERGROUND UTILITIES/OBSTRUCTIONS/SYSTEMS SHOWN HEREON ARE APPROXIMATE ONLY. ALL UTILITIES/OBSTRUCTIONS/SYSTEMS MAY NOT BE SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES/OBSTRUCTIONS/SYSTEMS, WHETHER OR NOT SHOWN HEREON.
- UNLESS OTHERWISE SHOWN, ALL NEW UTILITIES SHALL BE UNDERGROUND.
- BURIED UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THEIR RESPECTIVE COMPANY SPECIFICATIONS.
- CONSTRUCTION LAYOUT OF BUILDING AND SITE IMPROVEMENTS SHALL BE PERFORMED BY A LICENSED PROFESSIONAL LAND SURVEYOR. LOCATIONS OF EXISTING FEATURES OR PROPOSED IMPROVEMENTS DERIVED BY SCALING DRAWINGS MAY NOT BE ACCURATE. PROPERTY LINES SHOWN HEREON ARE APPROXIMATE. SEE PLAN REFERENCE HEREON.
- SAFETY MEASURES, CONSTRUCTION METHODS, AND CONTROL OF WORK SHALL BE RESPONSIBILITY OF CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ANY EXISTING UTILITY OR STRUCTURE DAMAGED DURING CONSTRUCTION THAT ARE NOT DESIGNATED FOR DEMOLITION AND/OR REMOVAL HEREON. DAMAGED UTILITY OR STRUCTURE SHALL BE REPAIRED TO THE SATISFACTION OF THEIR RESPECTIVE OWNERS.
- ANY INTENDED REVISION OF THE HORIZONTAL AND/OR VERTICAL LOCATION OF IMPROVEMENTS TO BE CONSTRUCTED AS SHOWN HEREON SHALL BE REVIEWED AND APPROVED BY ENGINEER PRIOR TO IMPLEMENTATION.
- CONTRACTOR SHALL NOTIFY ENGINEER UPON COMMENCEMENT OF CONSTRUCTION IN ORDER TO ENSURE THAT REQUIRED INSPECTIONS ARE PERFORMED IN A TIMELY AND EFFICIENT MANNER.
- CONTRACTOR SHALL PROMPTLY NOTIFY ENGINEER UPON DISCOVERY OF ANY UNFORESEEN SURFACE OR SUBSURFACE CONDITIONS THAT MAY IMPACT SITE CONSTRUCTION.
- FINISH RIM ELEVATIONS SHOULD MATCH PAVEMENT, GRADING OR LANDSCAPING, UNLESS SPECIFICALLY INDICATED OTHERWISE.
- WHERE EXISTING UTILITY LINES/STRUCTURES ARE TO BE CUT/BROKEN DOWN/ABANDONED, LINES/STRUCTURES SHALL BE PLUGGED/CAPPED/FILLED IN ACCORDANCE WITH UTILITY OWNER REQUIREMENTS.
- EROSION CONTROL MEASURES, SUCH AS SILT FENCE OR STRAW WATTLES AS MAY BE SHOWN HEREON, SHALL BE INSTALLED BEFORE EARTH DISTURBANCE OCCURS WITHIN BUFFER ZONE, AND SHALL SERVE AS THE LIMIT OF WORK.
- WHERE THE WORD "INSTALL" IS USED HEREIN, IT IS INTENDED TO DIRECT CONTRACTOR TO "FURNISH, INSTALL, AND PLACE IN OPERATION" THE COMPONENT REFERRED TO.
- LIMITS OF WORK SHALL BE STAKED IN THE FIELD PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL STORM DRAIN PIPE TO BE CONSTRUCTED OF REINFORCED CONCRETE PIPE, UNLESS OTHERWISE NOTED.
- WHERE SHOWN, CONSTRUCTION NOTES ARE INTENDED TO SUMMARIZE AND CLARIFY MAJOR ITEMS OF WORK. THESE NOTES SHOULD NOT BE CONSTRUED AS AN EXHAUSTIVE LISTING OF ALL WORK REQUIRED. CONTRACTOR SHOULD CONTACT ENGINEER WHEN FURTHER CLARIFICATION OF DEPICTED WORK IS DESIRED.
- CONSTRUCTION OF FIRE AND DOMESTIC WATER SUPPLY IMPROVEMENTS SHALL CONFORM TO TOWN OF LITTLETON REQUIREMENTS.
- WHERE DIMENSIONS INVOLVE CURBS, DIMENSIONS ARE TO FACE OF CURB. WHERE SLOPED GRANITE CURB OR CAPE COD BERM SPECIFIED, FACE OF CURB IS EDGE OF FINISH PAVEMENT AT TOE OF CURB.
- NO DEBRIS, JUNK, RUBBISH OR OTHER NON-BIODEGRADABLE MATERIALS, FILL CONTAINING HAZARDOUS MATERIALS OR WASTES, OR STUMPS SHALL BE BURIED ON ANY LAND ON THIS SITE, OR LEFT ON ANY LOT OR ON THE STREET RIGHT OF WAY.
- ALL WORK AND MATERIALS UNDER THIS PROJECT SHALL BE DONE IN CONFORMANCE WITH MASS DOT STANDARDS.

REGULATORY NOTES

- CONTRACTOR SHALL CONTACT DIG-SAFE FOR UNDERGROUND UTILITY MARKING AT 811 AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF ANY WORK. CONTRACTOR SHALL GIVE TWENTY-FOUR (24)-HOUR NOTICE TO PERTINENT TOWN DEPARTMENTS BEFORE COMMENCING ANY WORK IN THE FIELD.
- CONTRACTOR SHALL COORDINATE AND OBTAIN ALL CONSTRUCTION PERMITS REQUIRED BY REGULATORY AUTHORITIES.
- CONTRACTOR SHALL BE AWARE OF ALL CONSTRUCTION REQUIREMENTS, CONDITIONS, AND LIMITATIONS IMPOSED BY PERMITS AND APPROVALS ISSUED BY REGULATORY AUTHORITIES PRIOR TO COMMENCEMENT OF ANY WORK.
- GENERAL COMPLIANCE WITH 28 CFR PART 36 – 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND 521 CMR PART C, EXTERIOR OF THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD REGULATIONS IS INTENDED. CONTRACTOR SHALL VERIFY COMPLIANCE DURING CONSTRUCTION AND SHALL NOTIFY THE OWNER OF ANY NON-COMPLIANCE ISSUES AS SOON AS DISCOVERED.

WAIVERS REQUESTED:

Reference to the "Code of the Town of Littleton, Massachusetts - Chapter 249 - Subdivision of Land Regulations" as adopted on 2012.

Section 249-32A(1)(a)(ii) - Application Procedure

Required: Existing Conditions Plan; showing entire site to be subdivided....
Requested: Waive the requirement to depict entire site to be subdivided, portion of site not shown is not being developed.

Section 249-32D(2) - Site Plans and Profiles

Required: ...Cross-sections cut at 50-ft or closer station intervals and at all critical locations shall be provided with the Site Plans...
Requested: Waive the requirement to depict cross-sections at 50-ft or closer station intervals.

Section 249-32F(1) - Typical Street Cross Section

Required: Typical street cross section for each class of street within the subdivision, drawn at one inch equals 4 ft...
Requested: Provide a typical street cross section for each class of street within the subdivision, drawn not to scale.

Section 249-43E(3) - Landscaping and Aesthetics

Required: ...Trees shall be planted on both sides of the street and shall be spaced at intervals of 40 ft...
Requested: (12) Street trees are provided for the site, locating outside of the right of way at various intervals due to the location of proposed driveways and preservation of existing treelines.

Section 249-43E(9) - Landscaping and Aesthetics

Required: The minimum size of street trees shall be three inches in caliper, measured four feet from the ground level...
Requested: Street trees shall be 2.5" in caliper with a minimum height of 10 ft.

Section 249-51(H) - Stormwater Management

Required: ...The pipe inlets discharging into the basin shall be at or above the 25-year storm event ponding elevation...
Requested: Pipe inlets discharging into the basin is lower than the 25-year storm event ponding elevation.

Section 249-51(H) - Stormwater Management

Required: ... A minimum 30-ft setback as measured from the top of the inside slope to all property lines shall be
Requested: Waive requirement for a minimum setback from property lines to stormwater basins.

Section 249-59(C) - Utility Providers Written Approvals

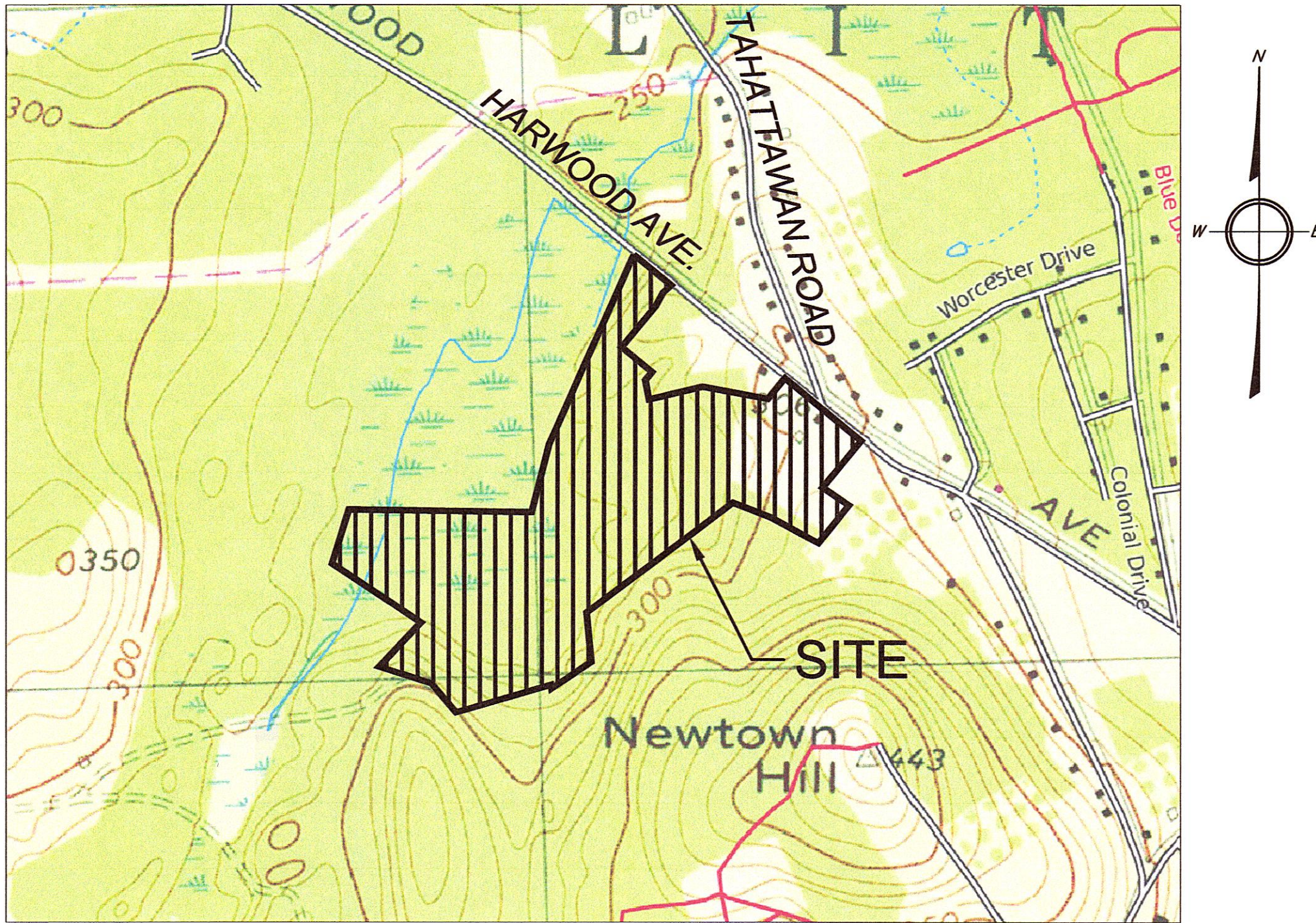
Required: ...The developer to submits written certification of approval of the design by all utilities which are to provide services within the subdivision.
Requested: Waive the requirement of the written certification of approval, to be provided prior to construction.

Reference to the "Code of the Town of Littleton, Massachusetts - Chapter 173 - Zoning" as adopted in 2015.

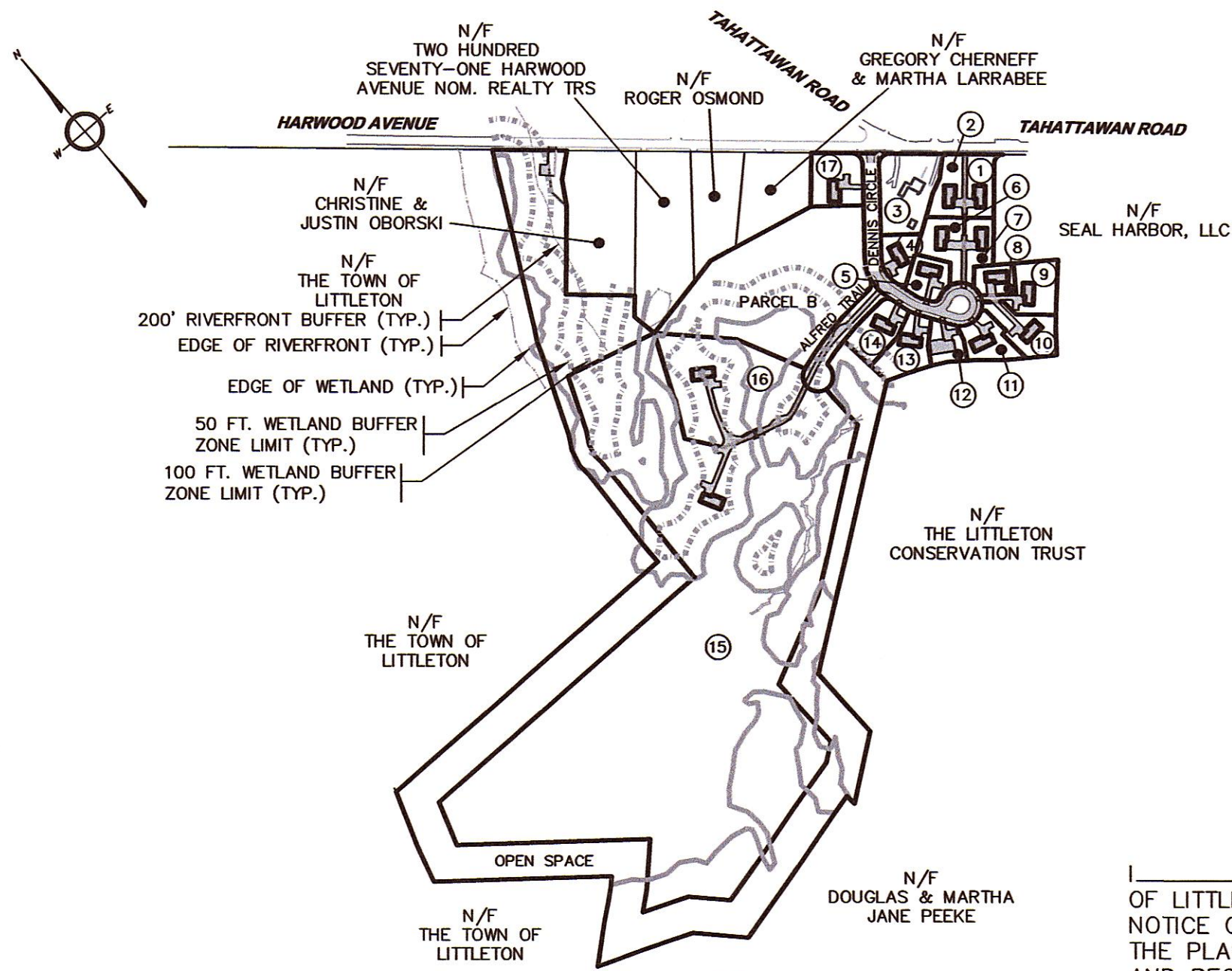
Section 173-98(E) - Submission Requirements

Required: Submit a marketing program including anticipated price schedule . . . Market studies prepared by outside consultants are strongly recommended, but not required.
Requested: Waive the requirement of marketing program.

DEFINITIVE SUBDIVISION PLAN
OPEN SPACE DEVELOPMENT
HEALY CORNER
LITTLETON, MA



LOCUS PLAN
SCALE: 1" = 600'



PLOT PLAN
SCALE: 1" = 400'

I, _____, CLERK OF THE TOWN OF LITTLETON, HEREBY CERTIFY THAT THE NOTICE OF THE APPROVAL OF THIS PLAN BY THE PLANNING BOARD HAS BEEN RECEIVED AND RECORDED BY THIS OFFICE AND NO APPEAL WAS RECEIVED DURING THE 20 DAYS NEXT AFTER RECEIPT AND RECORDING OF SAID NOTICE.

LITTLETON TOWN CLERK _____ DATE _____

APPROVED BY THE
LITTLETON PLANNING BOARD

CHAIR

APPLICATION FILED _____

HEARING DATE _____

PLAN APPROVED _____

ZONING SUMMARY

Open Space Development			
Parameter	Zoning Section [1]	Requirement	Remarks
Zoning District	Zoning Map	Residential	
Overlay District	Fema Map	Floodplain District	None on site
	Town GIS	Aquifer Protection Overlay	None on site
	Town GIS	Groundwater Protection	None on site
Proposed Use	173-26	Allowed	Single-family dwellings
Lot Area	173-108 (B)	None	
Frontage	173-108 (B)	None	
Lot Coverage	173-108 (C)	30% [2]	5.8% (112,143 sf)
Yard	173-108 (B)		
Street		None	
Side & Rear		None	
Open Space		40 ft [3]	Minimum 64 ft
Building Height	173-108(A)	32 ft [4]	32 ft
Parking	145-33 (B)	2 spaces per unit	2 spaces per unit
Wetlands Bylaw	local bylaw	100 ft buffer, 50 ft no disturb	From edge of wetlands
MDEP Riverfront Area	local bylaw	200 ft buffer, 50 ft no disturb	Extreme south end of property
FEMA Floodplain			None on site
ACEC			Extreme south end of property
Zone 1			None on site
Mapped Zone 2			None on site
IWPA			None on site

NOTES:

- [1] Reference to section of Zoning Bylaw as adopted on December 11, 2018.
- [2] The maximum allowable impervious area (Building and pavement) can not be greater than 30% for the overall tract of land.
- [3] No building shall be erected within 40 feet of any boundary of open space or any preexisting public way.
- [4] The height at any point shall not be more than 1/2 of the horizontal distance from any boundary of the open space or of any preexisting public way.

ASSESSORS REFERENCE

ASSESSORS MAP R07, PARCEL 1, LOT 0
OWNER: GLAVEY FAMILY IRREVOCABLE TRUST

PLAN REFERENCES:

- "PRELIMINARY SUBDIVISION PLAN-HEALY CORNER-LITTLETON, MA" PREPARED FOR GLAVEY FAMILY TRUST BY GOLDSMITH, PREST & RINGWALL INC. DATED OCTOBER 2018. REVISED 02/07/2019. JOB #171088.
- "SEWAGE DISPOSAL SYSTEM PLAN-195 TAHATTAWAN ROAD LITTLETON, MASSACHUSETTS" PREPARED FOR ALFRED & ESTELLE GLAVEY BY CIVIL SOLUTIONS, INC. DATED OCTOBER 1, 2012. REVISED THROUGH 9/2/2015.

EXISTING CONDITIONS NOTES:

- EXISTING TOPOGRAPHY, BOUNDARY, AND WETLAND FLAG LOCATIONS SHOWN ARE BASED ON AN INSTRUMENT SURVEY PERFORMED BY THIS OFFICE, DURING JULY 2018 THROUGH APRIL 2019.
- EDGE OF WETLAND HAS BEEN DELINEATED BY OXBOW ASSOCIATES INC. DURING NOVEMBER 2017. UPDATED THROUGH JULY 2018
- EDGE OF VERNAL POOL HAS BEEN DELINEATED BY OXBOW ASSOCIATES INC. DATED JULY 11, 2018.
- ELEVATION DATUM: NAVD 88 8.M. NO. 1

DENSITY CALCULATION

REFERENCE TO PLANNING BOARD DECISION LETTER REGARDING THE PRELIMINARY OPEN SPACE SUBDIVISION HEALY CORNER AT THE MEETING OF THURSDAY FEBRUARY 7, 2019.

MAXIMUM NUMBER OF DWELLING UNITS AS APPROVED BY PLANNING BOARD: 17
(CONVENTIONAL DENSITY YIELD AND BONUS DENSITY LOTS)

TOTAL NUMBER OF PROPOSED OPEN SPACE DEVELOPMENT DWELLINGS: 17

SHEET INDEX

- C1.1 TITLE SHEET
- C2.1 MASTER PLAN
- C3.1 PLAN OF LOTS
- C3.2 PLAN OF EASTMENTS
- C4.1 EXISTING CONDITIONS PLAN
- C4.2 EXISTING CONDITIONS PLAN
- C5.1 SITE LAYOUT AND UTILITIES PLAN
- C5.2 SITE LAYOUT AND UTILITIES PLAN
- C6.1 GRADING, DRAINAGE AND PAVING PLAN
- C6.2 GRADING, DRAINAGE AND PAVING PLAN
- C7.1 ROADWAY PLAN & PROFILE: DENNIS CIRCLE
- C7.2 ROADWAY PLAN & PROFILE: ALFRED TRAIL
- C8.1 STORMWATER POLLUTION PREVENTION PLAN
- C8.2 STORMWATER POLLUTION PREVENTION DETAILS
- C9.1 CONSTRUCTION DETAILS
- C9.2 CONSTRUCTION DETAILS
- C9.3 CONSTRUCTION DETAILS
- C9.4 CONSTRUCTION DETAILS

DRAWING ISSUED FOR:

- ☐ CONCEPT ☐ CONSTRUCTION
☒ PERMIT ☐ CONSTRUCTION RECORD

THIS DRAWING MAY NOT SHOW CONSTRUCTION DETAILS AND SPECIFICATIONS FOR ALL PROPOSED IMPROVEMENTS, AND MAY NOT IDENTIFY ALL CONSTRUCTION WORK ITEMS/AREAS OF CONTRACTOR JURISDICTION.

PER 250 CMR 5.03(13), THE FOLLOWING ARE EXCLUDED FROM THE PROFESSIONAL ENGINEER'S RESPONSIBILITY: ALL BOUNDARY INFORMATION; LOCATION OF EXISTING STRUCTURES, TREES, UTILITIES, TOPOGRAPHY OR SIMILAR FEATURES; DESIGN OF RETAINING WALLS, PROPRIETARY EQUIPMENT. SEE EXISTING CONDITION NOTES.

1	10/08/19	MCL	NMP	PEER REVIEW & TOWN COMMENTS
NO.	DATE	BY	APP.	REVISION DESCRIPTION



Engineering Solutions
for Land & Structures

GOLDSMITH, PREST & RINGWALL, INC.
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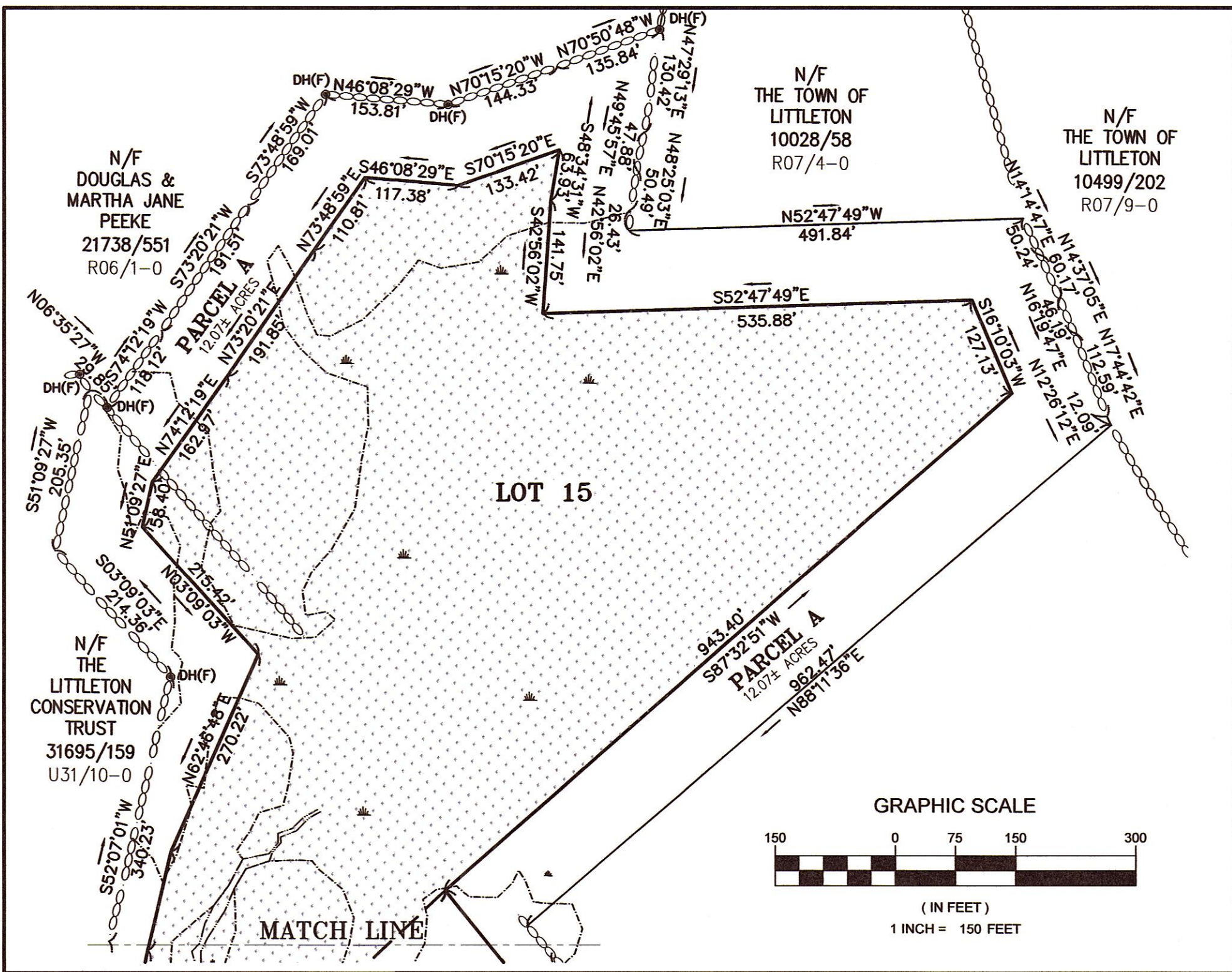
DEFINITIVE RESIDENTIAL SUBDIVISION
OPEN SPACE DEVELOPMENT

TITLE SHEET

HEALY CORNER
195 TAHATTAWAN ROAD
LITTLETON, MA

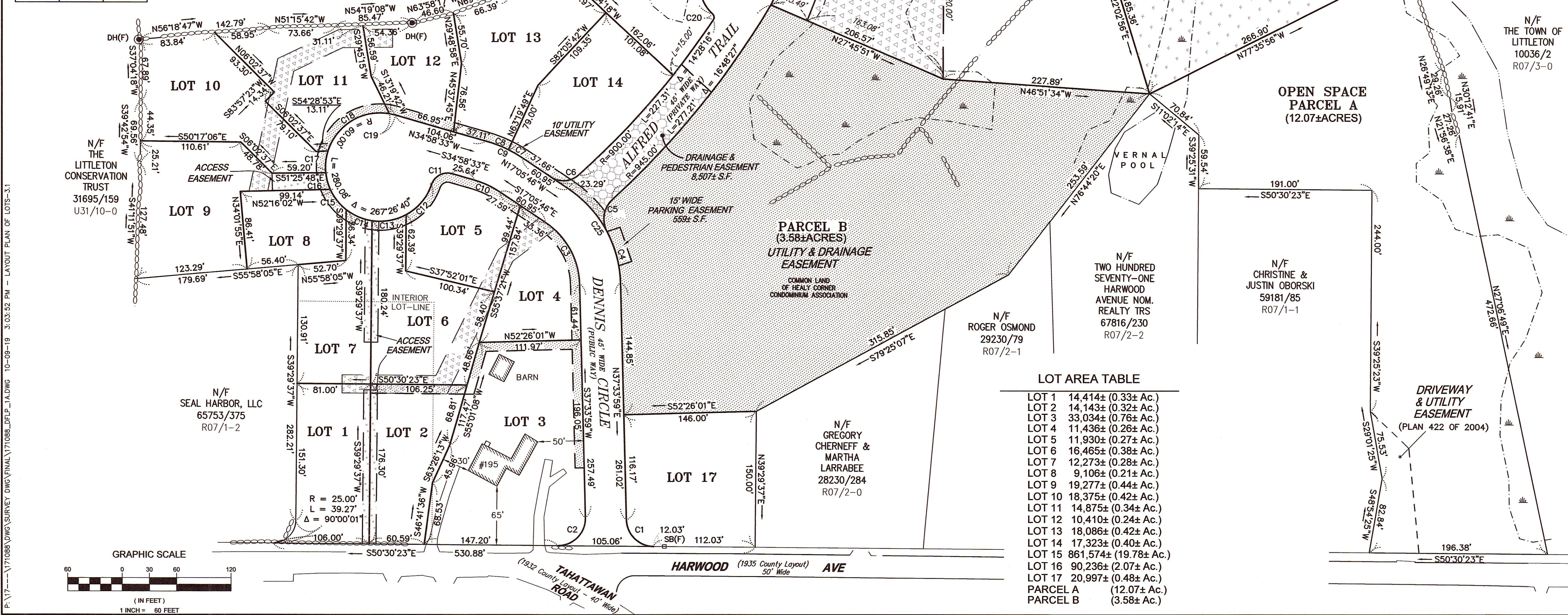
PREPARED FOR:
GLAVEY FAMILY TRUST
P.O. BOX 381
LITTLETON, MA 01460

DES. BY: MCL	DATE: AUGUST 2019	JOB 171088	C1.1
CHK. BY: NMP			

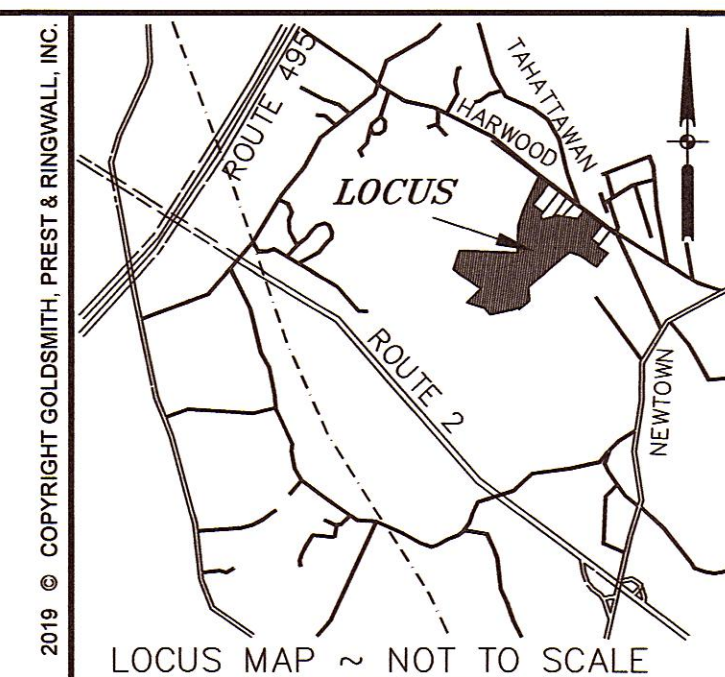
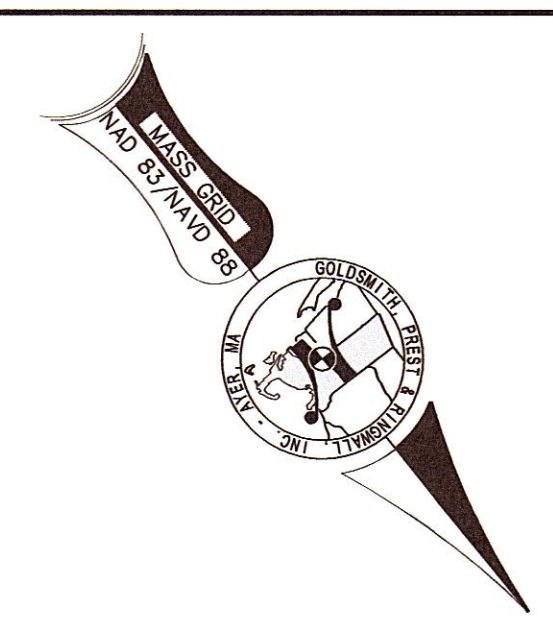


CURVE TABLE						
CURVE	LENGTH	RADIUS	CURVE	LENGTH	RADIUS	
C1	46.11	30.00	C14	31.33	60.00	
C2	48.13	30.00	C15	28.80	60.00	
C3	81.09	85.00	C16	18.97	60.00	
C4	59.51	130.00	C17	24.49	60.00	
C5	39.33	30.00	C18	86.46	60.00	
C6	33.09	25.00	C19	6.45	60.00	
C7	17.67	142.50	C20	7.13	5.00	
C8	26.80	142.50	C21	189.66	42.00	
C9	44.47	142.50	C22	78.33	42.00	
C10	30.43	97.50	C23	62.04	42.00	
C11	28.23	18.50	C24	49.29	42.00	
C12	44.65	60.00	C25	124.02	130.00	
C13	38.93	60.00				

EASEMENT HATCH LEGEND	
	SEWER EASEMENT
	ACCESS & UTILITY EASEMENT
	DRAINAGE EASEMENT
	PEDESTRIAN & DRAINAGE EASEMENT



LOT AREA TABLE	
LOT 1	14,414± (0.33± Ac.)
LOT 2	14,143± (0.32± Ac.)
LOT 3	33,034± (0.76± Ac.)
LOT 4	11,436± (0.26± Ac.)
LOT 5	11,930± (0.27± Ac.)
LOT 6	16,465± (0.38± Ac.)
LOT 7	12,273± (0.28± Ac.)
LOT 8	9,106± (0.21± Ac.)
LOT 9	19,277± (0.44± Ac.)
LOT 10	18,375± (0.42± Ac.)
LOT 11	14,875± (0.34± Ac.)
LOT 12	10,410± (0.24± Ac.)
LOT 13	18,086± (0.42± Ac.)
LOT 14	17,323± (0.40± Ac.)
LOT 15	861,574± (19.78± Ac.)
LOT 16	90,236± (2.07± Ac.)
LOT 17	20,997± (0.48± Ac.)
PARCEL A	(12.07± Ac.)
PARCEL B	(3.58± Ac.)



REFERENCES:

PLANS ON FILE AT THE MIDDLESEX SOUTH DISTRICT REGISTRY OF DEEDS

- PLAN 880 OF 2000 "PLAN OF LAND IN LITTLETON, MASS" BY DAVID E. ROSS; MAY 2000
- PLAN 545 OF 2015 "PLAN FOR MARK GALLAGHER" BY PLACES, Inc.; JUNE 4, 2015
- PLAN 1299 OF 1997 "PLAN OF LAND IN LITTLETON, MASS" BY DAVID E. ROSS; NOV., 1997
- PLAN 422 OF 2004 "PLAN OF LAND IN LITTLETON, MASS" BY DAVID E. ROSS; FEB., 2004
- PLAN 1433 OF 1974 "LAND IN LITTLETON, MASS" BY CHARLES A. PERKINS; JULY, 1974
- PLAN 1439 OF 1998 "PLAN OF LAND ON HARWOOD AVE." BY LAKEVIEW ENG; JUNE 28, 1998
- 1935 COUNTY LAYOUT OF HARWOOD AVENUE

NOTES:

- WETLAND AREAS SHOWN HAVE BEEN DELINEATED BY OXBOW ASSOCIATES INC., DURING NOVEMBER 2017 AND UPDATED JULY 2018.
- FOR DRAINAGE, UTILITY AND/OR ACCESS EASEMENTS, SEE SHEET C3.2

_____, CLERK OF THE TOWN OF LITTLETON, HEREBY CERTIFY THAT THE NOTICE OF THE APPROVAL OF THIS PLAN BY THE PLANNING BOARD HAS BEEN RECEIVED AND RECORDED BY THIS OFFICE AND NO APPEAL WAS RECEIVED DURING THE 20 DAYS NEXT AFTER RECEIPT AND RECORDING OF SAID NOTICE.

APPROVAL IS REQUIRED UNDER THE SUBDIVISION CONTROL LAW
LITTLETON PLANNING BOARD

BEING A MAJORITY
DATE APPROVED: _____
DATE ENDORSED: _____

DRAWING ISSUED FOR:

☐ CONCEPT ☐ CONSTRUCTION
☒ PERMIT ☐ CONSTRUCTION RECORD

THIS PLAN HAS BEEN PREPARED IN CONFORMITY WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS.

DAVID J. DeBAY, P.L.S. # 33887 DATE _____

NO.	DATE	BY	APP.	REVISION DESCRIPTION
1	10/08/19	DSB	DJD	GIA-REVIEW COMMENTS ADDRESSED & LOT LINE 12, 13

GPR Engineering Solutions for Land & Structures

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www.gpr-inc.com

**DEFINITIVE RESIDENTIAL SUBDIVISION
OPEN SPACE DEVELOPMENT**

PLAN OF LOTS

**HEALY CORNER
195 TAHATTAWAN ROAD
LITTLETON, MA**

PREPARED FOR:
GLAVEY FAMILY TRUST
P.O. BOX 381
LITTLETON, MA 01460

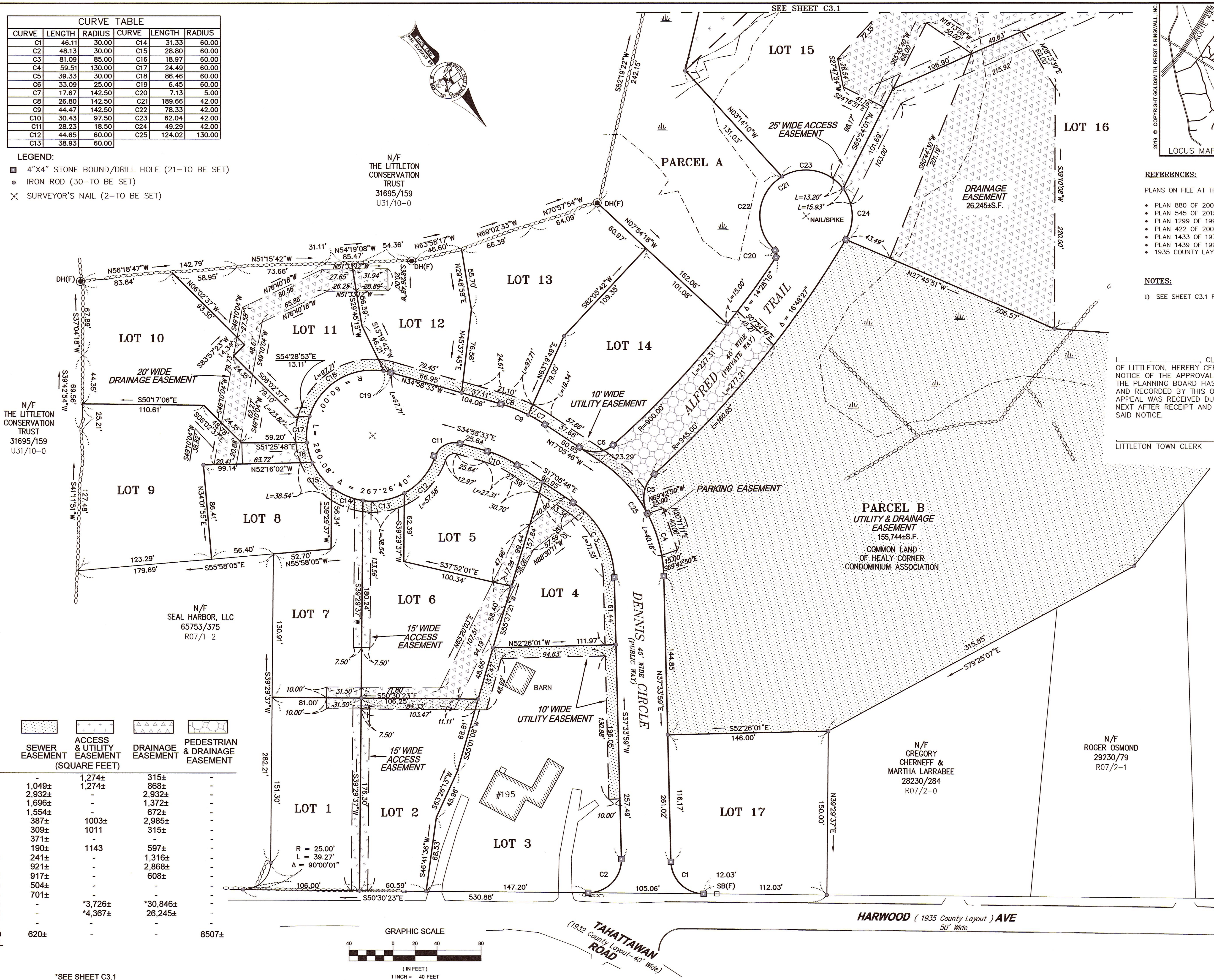
DES: MCL/NMP	DATE: AUGUST 2019	JOB 171088	C3.1
CHK. BY: DSB			

CURVE TABLE					
CURVE	LENGTH	RADIUS	CURVE	LENGTH	RADIUS
C1	46.11	30.00	C14	31.33	60.00
C2	48.13	30.00	C15	28.80	60.00
C3	81.09	85.00	C16	18.97	60.00
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C11	28.23	18.50	C24	49.29	42.00
C12	44.65	60.00	C25	124.02	130.00
C13	38.93	60.00			

LEGEND:

- 4"x4" STONE BOUND/DRILL HOLE (21-TO BE SET)
- IRON ROD (30-TO BE SET)
- SURVEYOR'S NAIL (2-TO BE SET)

N/F
THE LITTLETON
CONSERVATION
TRUST
31695/159
U31/10-0



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NOTES:

- SEE SHEET C3.1 FOR CONSERVATION RESTRICTION AREAS.

APPROVAL IS REQUIRED UNDER THE
SUBDIVISION CONTROL LAW
LITTLETON PLANNING BOARD

I, _____, CLERK OF THE TOWN
OF LITTLETON, HEREBY CERTIFY THAT THE
NOTICE OF THE APPROVAL OF THIS PLAN BY
THE PLANNING BOARD HAS BEEN RECEIVED
AND RECORDED BY THIS OFFICE AND NO
APPEAL WAS RECEIVED DURING THE 20 DAYS
NEXT AFTER RECEIPT AND RECORDING OF
SAID NOTICE.

LITTLETON TOWN CLERK _____ DATE _____

BEING A MAJORITY
DATE APPROVED: _____
DATE ENDORSED: _____

DRAWING ISSUED FOR:

- | | |
|--|--|
| <input type="checkbox"/> CONCEPT | <input type="checkbox"/> CONSTRUCTION |
| <input checked="" type="checkbox"/> PERMIT | <input type="checkbox"/> CONSTRUCTION RECORD |

THIS PLAN HAS BEEN PREPARED IN CONFORMITY
WITH THE RULES AND REGULATIONS OF THE
REGISTERS OF DEEDS.



DAVID J. DeBAY, P.L.S. # 33887 DATE 10/10/19

NO.	DATE	BY	APP.	REVISION DESCRIPTION
1	10/8/19	DSB	DJD	GIA-REVIEW COMMENTS ADDRESSED & LOT LINE 12, 13

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DEFINITIVE RESIDENTIAL SUBDIVISION
OPEN SPACE DEVELOPMENT

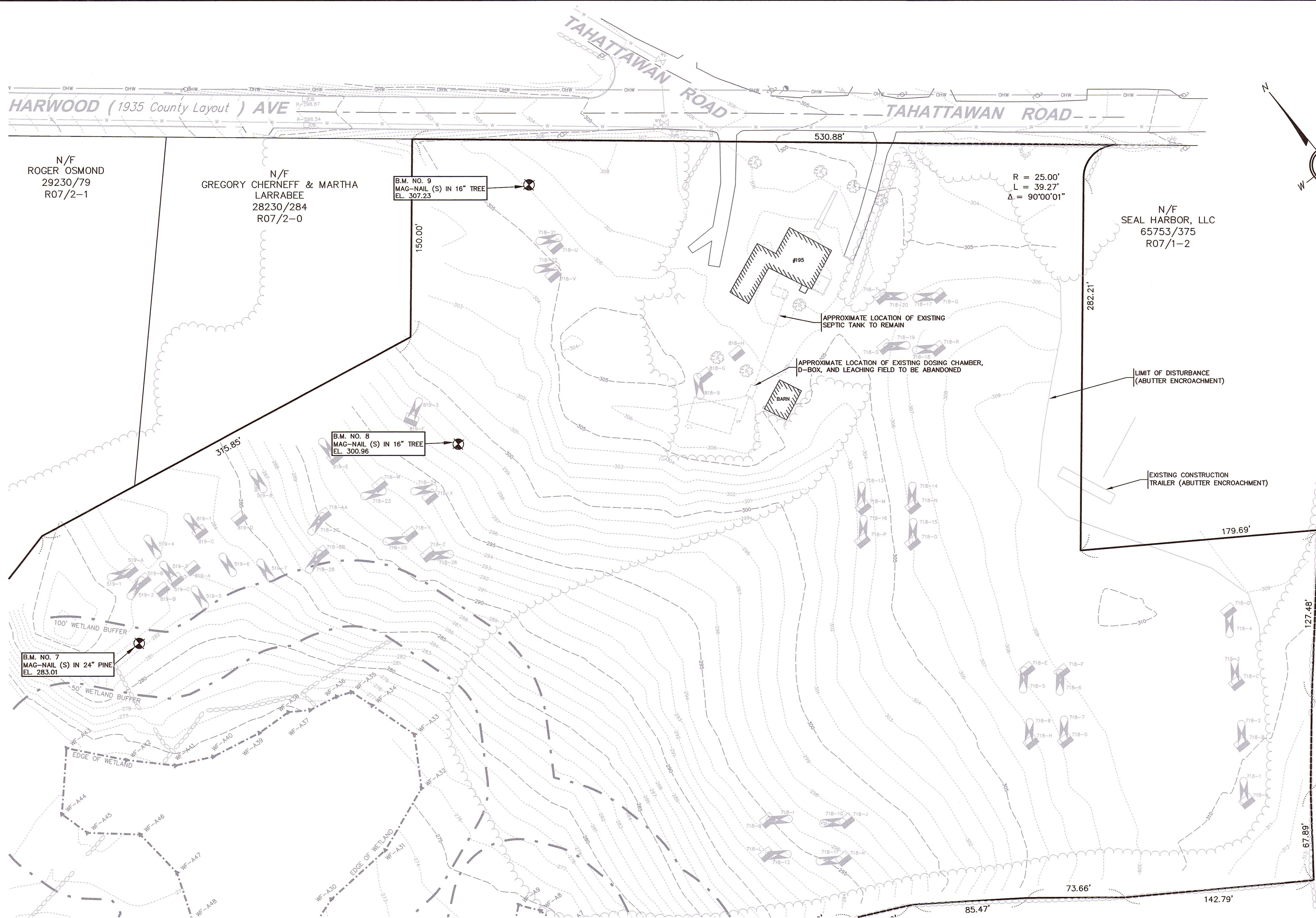
PLAN OF EASEMENTS &
PROPOSED MONUMENT PLACEMENT

HEALY CORNER
195 TAHATTAWAN ROAD
LITTLETON, MA

PREPARED FOR:
GLAVEY FAMILY TRUST
P.O. BOX 381
LITTLETON, MA 01460

DES: MCL/NMP	DATE: AUGUST 2019	JOB 171088	C3.2
CHK. BY: DSB			

*SEE SHEET C3.1



N/F
ROGER OSMOND
29230/79
R07/2-1

N/F
GREGORY CHERNEFF & MARTHA
LARRABEE
28230/284
R07/2-0

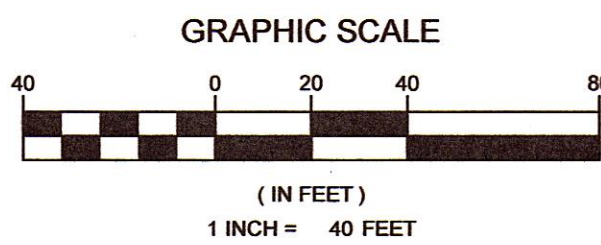
N/F
SEAL HARBOR, LLC
65753/375
R07/1-2

B.M. NO. 7
MAG-NAIL (S) IN 24" PINE
EL. 283.01

B.M. NO. 8
MAG-NAIL (S) IN 16" TREE
EL. 300.96

B.M. NO. 9
MAG-NAIL (S) IN 16" TREE
EL. 307.23

B.M. NO. 10
MAG-NAIL (S) IN UP #81
EL. 267.18



_____, CLERK OF THE TOWN
OF LITTLETON, HEREBY CERTIFY THAT THE
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THE PLANNING BOARD HAS BEEN RECEIVED
AND RECORDED BY THIS OFFICE AND NO
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LITTLETON TOWN CLERK _____ DATE _____

APPROVED BY THE
LITTLETON PLANNING BOARD

CHAIR

APPLICATION FILED _____

HEARING DATE _____

PLAN APPROVED _____



PROFESSIONAL LAND SURVEYOR

LEGEND	
EXISTING	
	ELEVATION CONTOUR
	SPOT GRADE
	PROPERTY LINE
	WETLAND DELINEATION
	WETLAND BUFFER ZONE
	SHORELINE
	100-YEAR FLOODPLAIN LIMIT
	TREE LINE / EDGE OF VEGETATION
	EDGE OF PAVEMENT
	CAPE COD BERM CURBING
	GRANITE CURBINGS
	GRAVEL/DIRT ROAD
	STOCKADE FENCE
	STONE WALL
	WATER MAIN
	WATER SERVICE
	FIRE SERVICE
	WATER VALVE
	FIRE HYDRANT
	FORCE MAIN
	GRAVITY SEWER LINE
	SEWER MANHOLE
	GAS LINE
	GAS SERVICE
	GAS VALVE
	BURIED POWER LINE
	OVERHEAD POWER LINE
	UTILITY POLE
	GUY WIRE
	ELECTRIC BOX
	STORM DRAIN
	UNDERDRAIN
	ROOF DRAIN
	FOUNDATION DRAIN
	CATCH BASIN
	DRAIN MANHOLE
	SILT FENCE BARRIER
	STRAW WATTLES
	DEEP SOIL OBSERVATION HOLE
	SITE LUMINAIRE
	SIGN
	SURFACE RUNOFF DIRECTION
	STONE BOUND
	DRILL HOLE
	IRON ROD

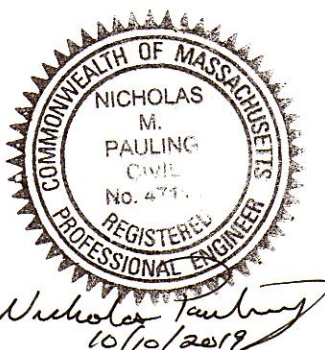
ABBREVIATIONS	
EL	ELEVATION
INV	INVERT
SF	SQUARE FEET
AC	ACRES
FT	FEET
R	RADIUS
DIA	DIAMETER
BIT	BITUMINOUS
CONC	CONCRETE
L	LENGTH
S	SLOPE
HDPE	HIGH DENSITY POLYETHYLENE
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
N/F	NOW OR FORMERLY
VF	WETLAND FLAG
WF	WETLAND FLAG
TW	TOP OF WALL
BW	BOTTOM OF WALL
FG	FINISH GRADE
BSMT	BASEMENT
FF	FINISH FLOOR

DRAWING ISSUED FOR:

- | | |
|--|--|
| <input type="checkbox"/> CONCEPT | <input type="checkbox"/> CONSTRUCTION |
| <input checked="" type="checkbox"/> PERMIT | <input type="checkbox"/> CONSTRUCTION RECORD |

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NO.	DATE	BY	APP.	REVISION DESCRIPTION
1	10/08/19	MCL	NMP	PEER REVIEW & TOWN COMMENTS

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DEFINITIVE RESIDENTIAL SUBDIVISION
OPEN SPACE DEVELOPMENT

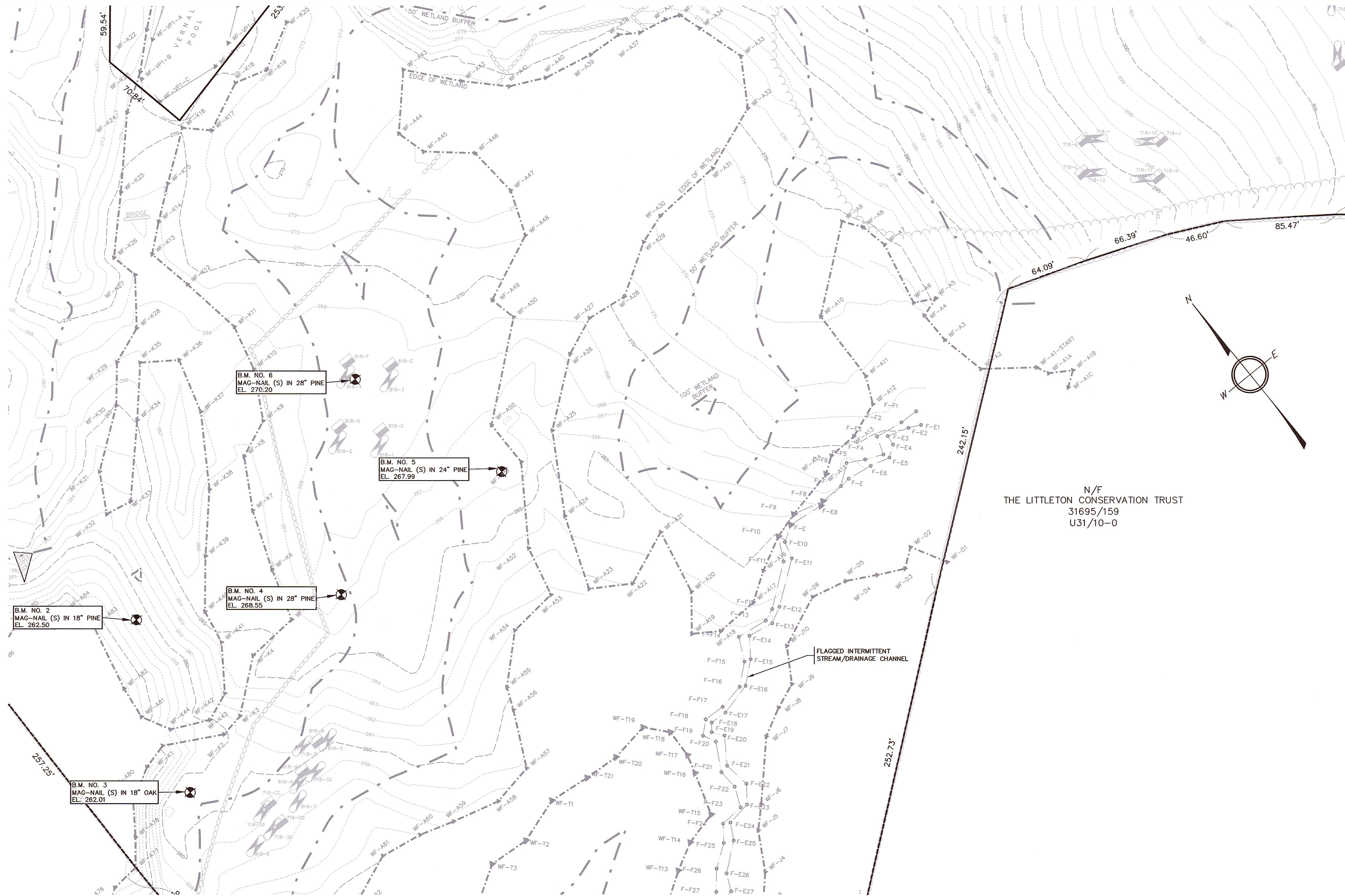
EXISTING CONDITIONS PLAN

HEALY CORNER
195 TAHATTAWAN ROAD
LITTLETON, MA

PREPARED FOR:
GLAVEY FAMILY TRUST
P.O. BOX 381
LITTLETON, MA 01460

DES. BY: MCL	DATE: AUGUST 2019	JOB 171088	C4.1
CHK. BY: NMP			

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LEGEND

EXISTING

- ELEVATION CONTOUR
- SPOT GRADE
- PROPERTY LINE
- WETLAND DELINEATION
- WETLAND BUFFER ZONE
- SHORELINE
- 100-YEAR FLOODPLAIN LIMIT
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- STRAW WATTLES
- DEEP SOIL OBSERVATION HOLE
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- STONE BOUND
- DRILL HOLE
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ABBREVIATIONS

EL	ELEVATION	HDPE	HIGH DENSITY POLYETHYLENE
INV	INVERT	PVC	POLYVINYL CHLORIDE
SF	SQUARE FEET	RCP	REINFORCED CONCRETE PIPE
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CONC	CONCRETE	FG	FINISH GRADE
L	LENGTH	BSMT	BASEMENT
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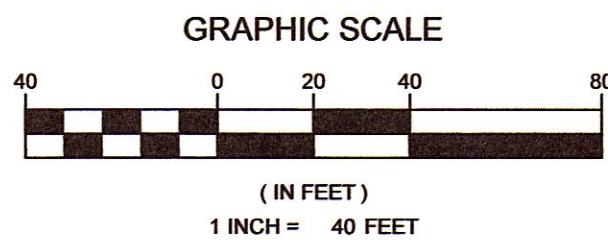
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LITTLETON, MA**

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LITTLETON, MA 01460

DES. BY: MCL	DATE: AUGUST 2019	JOB 171088	C4.2
CHK. BY: NMP			



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LITTLETON TOWN CLERK _____ DATE _____

APPROVED BY THE LITTLETON PLANNING BOARD

CHAIR

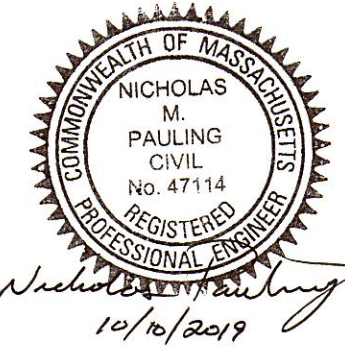
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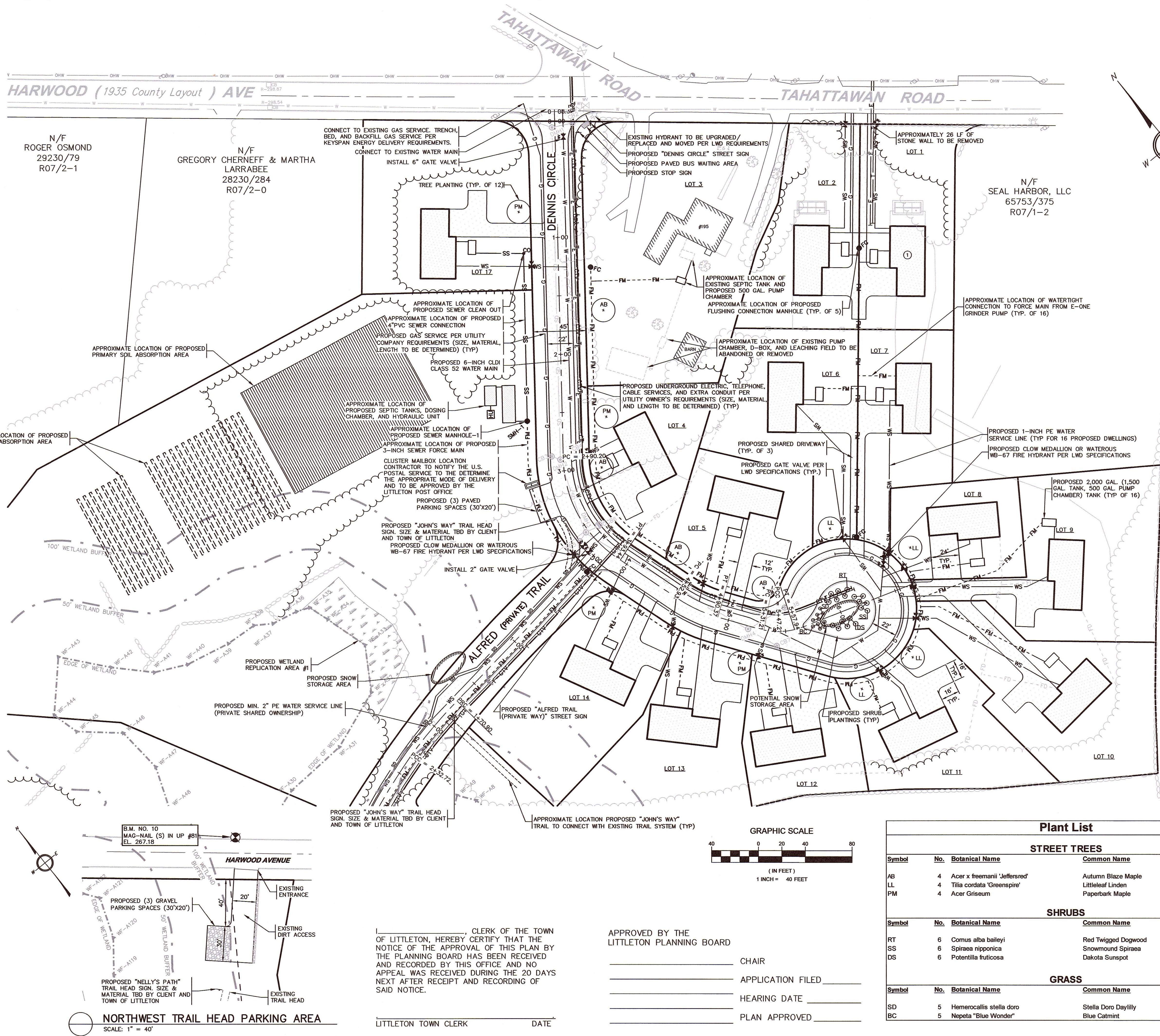
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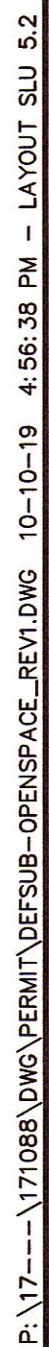
PLAN APPROVED

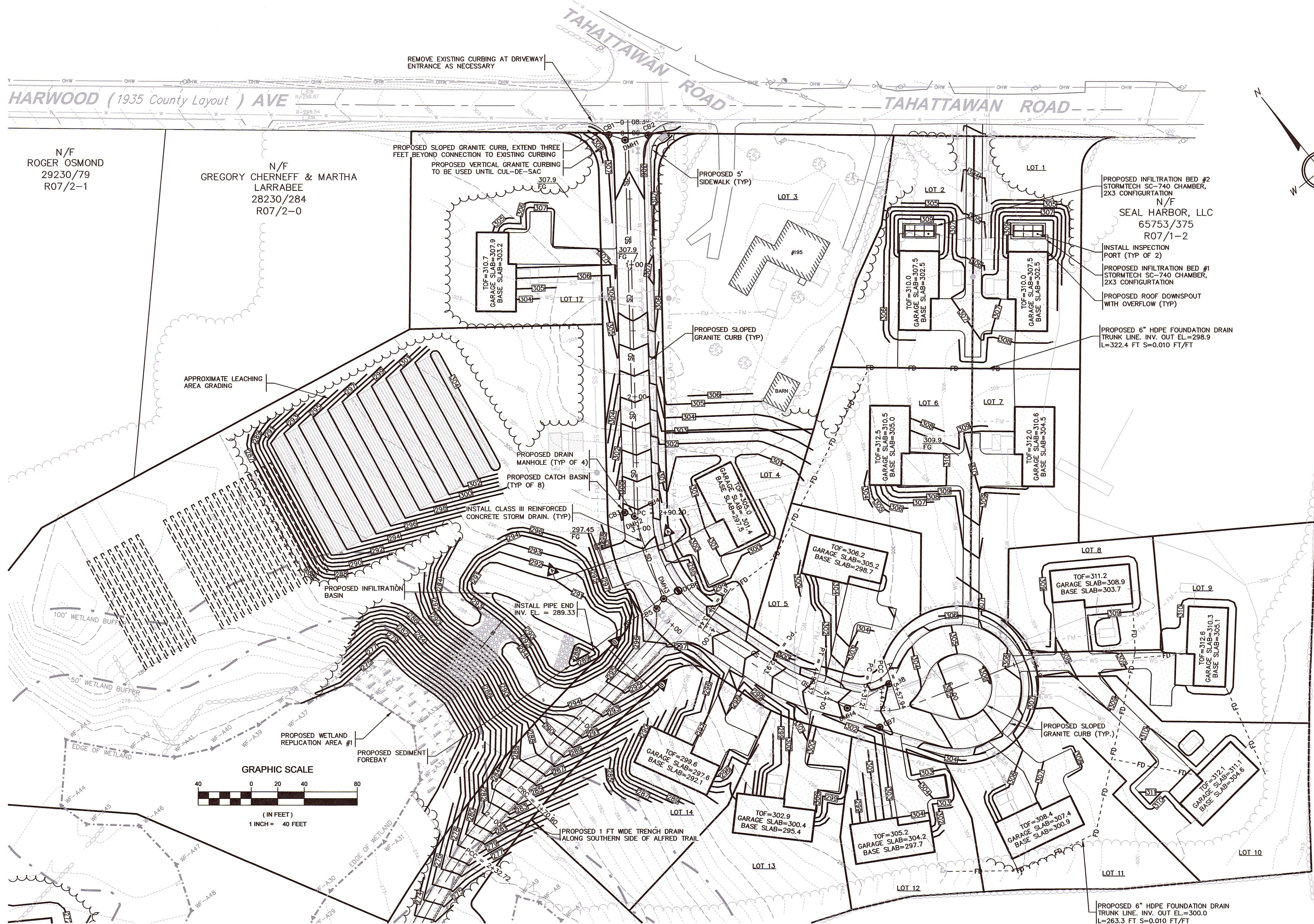


PROFESSIONAL LAND SURVEYOR









N/F
ROGER OSMOND
29230/79
R07/2-1

N/F
GREGORY CHERNEFF & MARTHA
LARRABEE
28230/284
R07/2-0

N/F
SEAL HARBOR, LLC
65753/375
R07/1-2

N/F
THE LITTLETON CONSERVATION TRUST
31695/159
U31/10-0

LEGEND

EXISTING

- ELEVATION CONTOUR
- SPOT GRADE
- PROPERTY LINE
- WETLAND DELINEATION
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- SITE LUMINAIRE
- SIGN
- SURFACE RUNOFF DIRECTION
- FLUSHING CONNECTION MANHOLE
- DRILL HOLE
- IRON ROD

PROPOSED

- 100
- 100.0
- FG
- W
- WS
- FS
- WV
- FM
- SS
- SMH
- GS
- E
- OHW
- WB
- E
- SD
- UD
- RD
- FD
- CB
- DMH
- 199-1
- FC

ABBREVIATIONS

EL	ELEVATION	HDPE	HIGH DENSITY POLYETHYLENE
INV	INVERT	PVC	POLYVINYL CHLORIDE
SF	SQUARE FEET	RCP	REINFORCED CONCRETE PIPE
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L	LENGTH	BSMT	BASEMENT
S	SLOPE	FF	FINISH FLOOR
CLDI	CEMENT UNED DUCTILE IRON	LWD	LITTLETON WATER DEPARTMENT

DRAWING ISSUED FOR:

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OPEN SPACE DEVELOPMENT**

**GRADING, DRAINAGE AND
PAVING PLAN**

**HEALY CORNER
195 TAHATTAWAN ROAD
LITTLETON, MA**

PREPARED FOR:
GLAVEY FAMILY TRUST
P.O. BOX 381
LITTLETON, MA 01460

DES. BY: MCL	DATE: AUGUST 2019	JOB 171088	C6.1
CHK. BY: NMP			

RIM AND INVERT SCHEDULE:

Sta.	offset	FROM		TO		Pipe		Pipe Type	Length (ft)	Slope (ft/ft)	Comments
		Structure	Rim	Invert	Structure	Invert	Size (in)				
0+00.9	14.68 R	CB 1	305.52	299.43	DMH 1	299.25	12	RCP	9.1	0.0198	
0+01.9	15.07 L	CB 2	305.53	299.57	DMH 1	299.25	12	RCP	15.9	0.0201	
0+05.2	2.5 R	DMH 1	305.72	299.00	DMH 2	293.38	12	RCP	281.0	0.0200	
2+87.3	10.0 R	CB3	298.71	292.40	DMH 2	292.32	12	RCP	4.0	0.0199	
2+87.5	10.0 L	CB4	298.71	292.50	DMH 2	292.32	12	RCP	8.8	0.0204	
2+90.2	2.5 R	DMH2	298.75	291.82	DMH 3	290.57	12	RCP	62.3	0.0201	
3+58.6	11.31 R	CB 5	297.23	290.68	DMH 3	290.57	12	RCP	5.4	0.0204	
3+58.6	10.0 L	DCB 6	297.23	290.75	DMH 3	290.57	12	RCP	8.8	0.0205	
3+55.9	3.0 R	DMH3	297.40	290.06	FB	289.33	24	RCP	63.0	0.0116	Discharge to Sediment Forebay
5+42.7	12.48 R	CB 7	302.80	296.29	DMH 4	295.80	12	RCP	24.7	0.0198	
5+52.2	20.20 L	CB 8	303.08	296.45	DMH 4	295.80	12	RCP	32.5	0.0200	
5+18.5	2.5 R	DMH 4	302.20	295.30	DMH 3	290.57	12	RCP	157.7	0.0300	

***All drainage pipes sized for the 10-yr storm event
Wetland Culvert — 265.40 — 264.40 30"x48" Concrete 24.0 0.042 Culvert under Wetland Crossing
***Wetland Box Culvert sized for the 50-yr storm event, free flowing during 100-yr storm event

Abbreviations:
CB - Catch Basin; DCB - Double Grate Catch Basin; DMH - Drain Manhole; FES - Flared End Section;

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LITTLETON TOWN CLERK _____ DATE _____

APPROVED BY THE
LITTLETON PLANNING BOARD

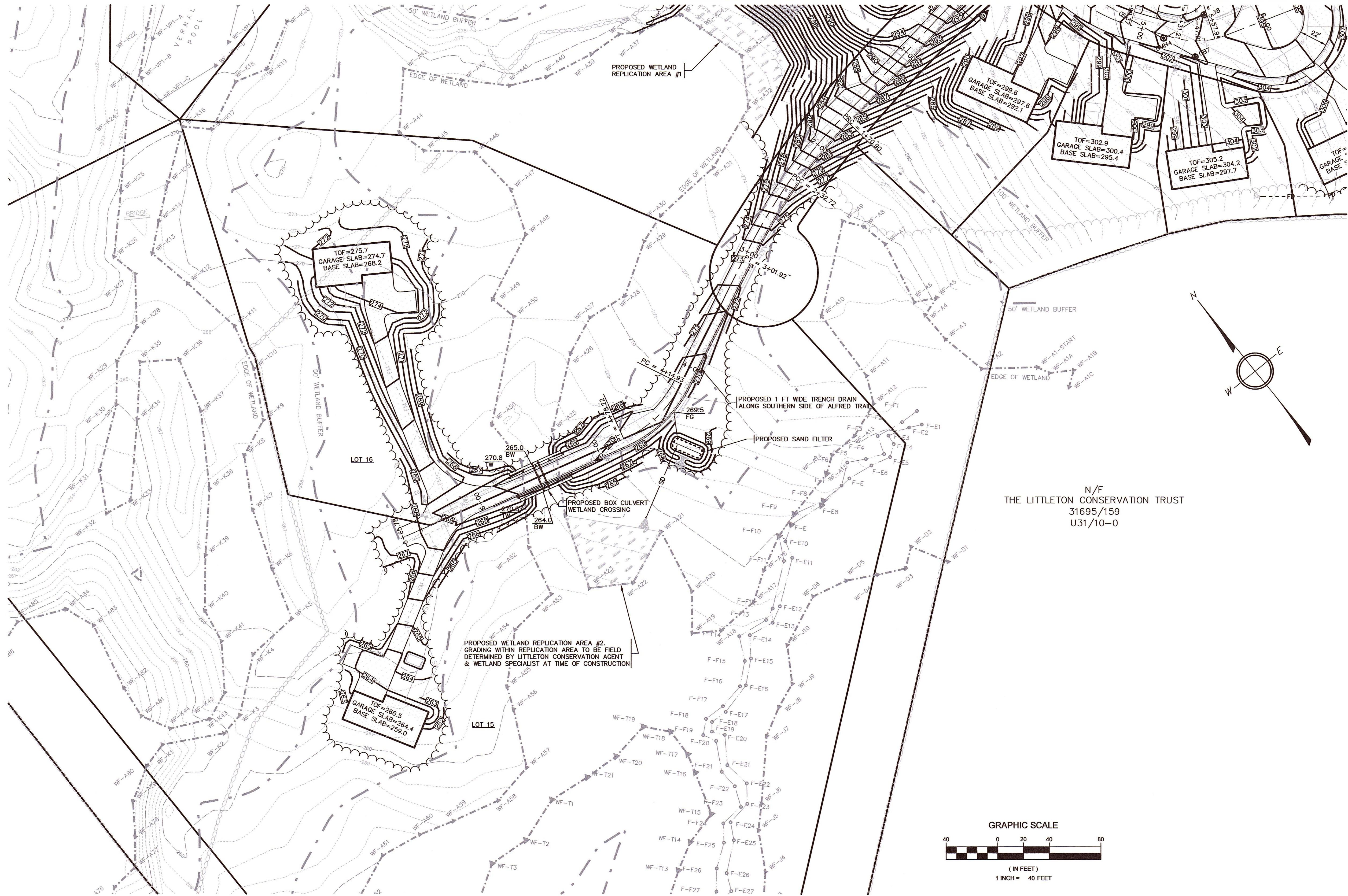
CHAIR

APPLICATION FILED

HEARING DATE

PLAN APPROVED

NORTHWEST TRAIL HEAD PARKING AREA
SCALE: 1" = 40'



LEGEND

EXISTING

100.0	ELEVATION CONTOUR	100.0	PROPOSED
100.0	SPOT GRADE	100.0	PROPOSED
---	PROPERTY LINE	---	PROPOSED
---	WETLAND DELINEATION	---	PROPOSED
---	SHORELINE	---	PROPOSED
---	100-YEAR FLOODPLAIN LIMIT	---	PROPOSED
---	TREE LINE / EDGE OF VEGETATION	---	PROPOSED
---	EDGE OF PAVEMENT	---	PROPOSED
---	CAPE COD BERM CURBING	---	PROPOSED
---	GRAVEL/DIRT ROAD	---	PROPOSED
---	STOCKADE FENCE	---	PROPOSED
---	STONE WALL	---	PROPOSED
---	WATER MAIN	---	PROPOSED
---	WATER SERVICE	---	PROPOSED
---	FIRE SERVICE	---	PROPOSED
---	WATER VALVE	---	PROPOSED
---	FIRE HYDRANT	---	PROPOSED
---	FORCE MAIN	---	PROPOSED
---	GRAVITY SEWER LINE	---	PROPOSED
---	SEWER MANHOLE	---	PROPOSED
---	GAS LINE	---	PROPOSED
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---	GAS VALVE	---	PROPOSED
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---	SIGN	---	PROPOSED
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CONC	CONCRETE	BSMT	BASEMENT
L	LENGTH	FF	FINISH FLOOR
S	SLOPE	LWD	LITTLETON WATER DEPARTMENT
CLDI	CEMENT LINED DUCTILE IRON		

DRAWING ISSUED FOR:

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CHK. BY: NMP			

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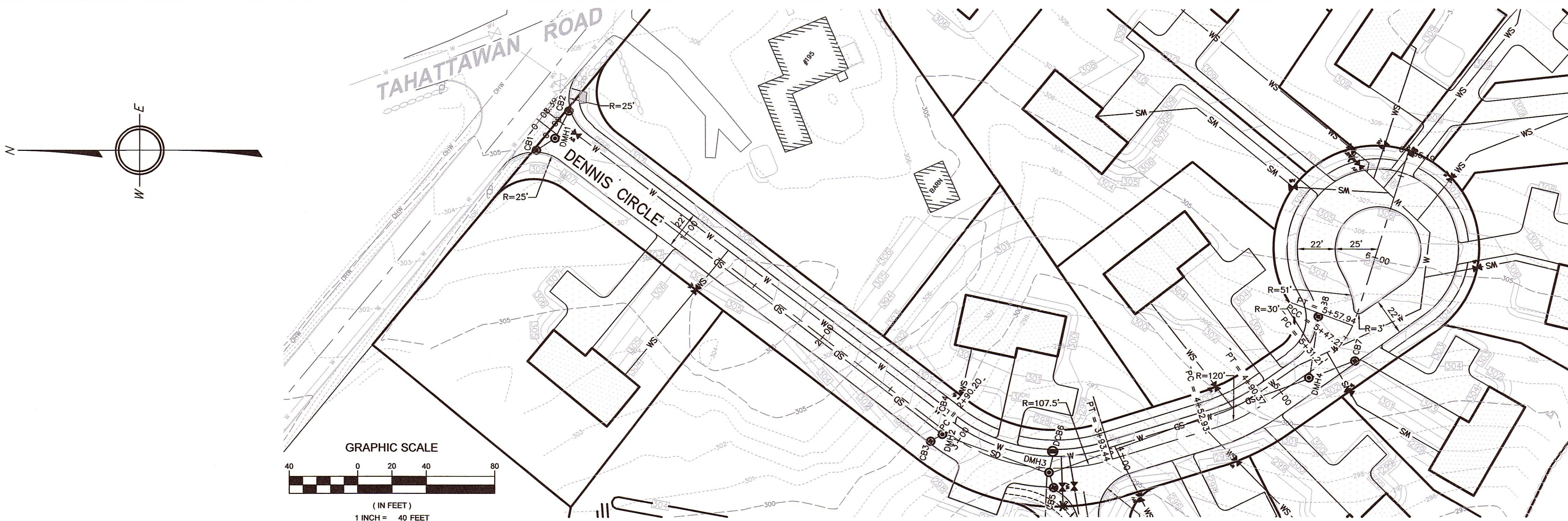
CHAIR

APPLICATION FILED _____

HEARING DATE _____

PLAN APPROVED _____

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LEGEND	
EXISTING	PROPOSED

ABBREVIATIONS	
EL	ELEVATION
INV	INVERT
SF	SQUARE FEET
AC	ACRES
FT	FEET
R	RADIUS
DIA	DIAMETER
BIT	BITUMINOUS
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_____ CHAIR

_____ APPLICATION FILED

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_____ PLAN APPROVED

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DEFINITIVE RESIDENTIAL SUBDIVISION OPEN SPACE DEVELOPMENT

ROADWAY PLAN AND PROFILE: DENNIS CIRCLE

HEALY CORNER
195 TAHATTAWAN ROAD
LITTLETON, MA

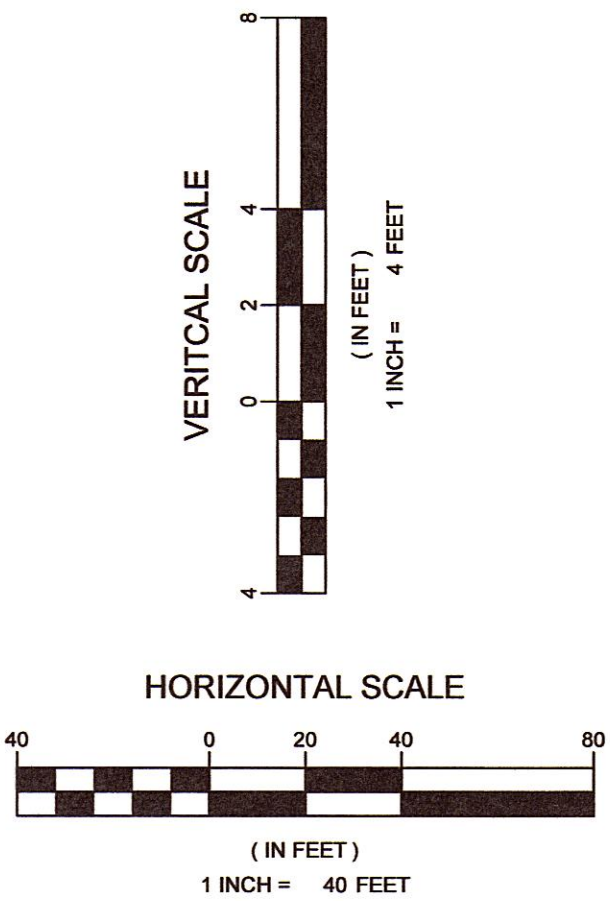
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LITTLETON, MA 01460

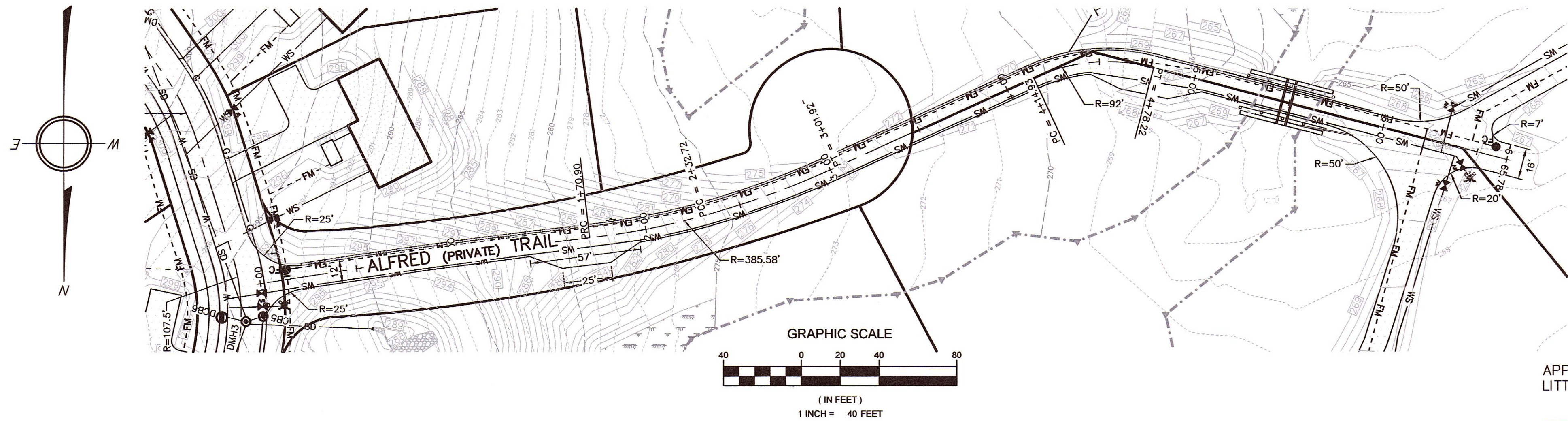
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CHK. BY: NMP

DATE: AUGUST 2019

JOB 171088

C7.1





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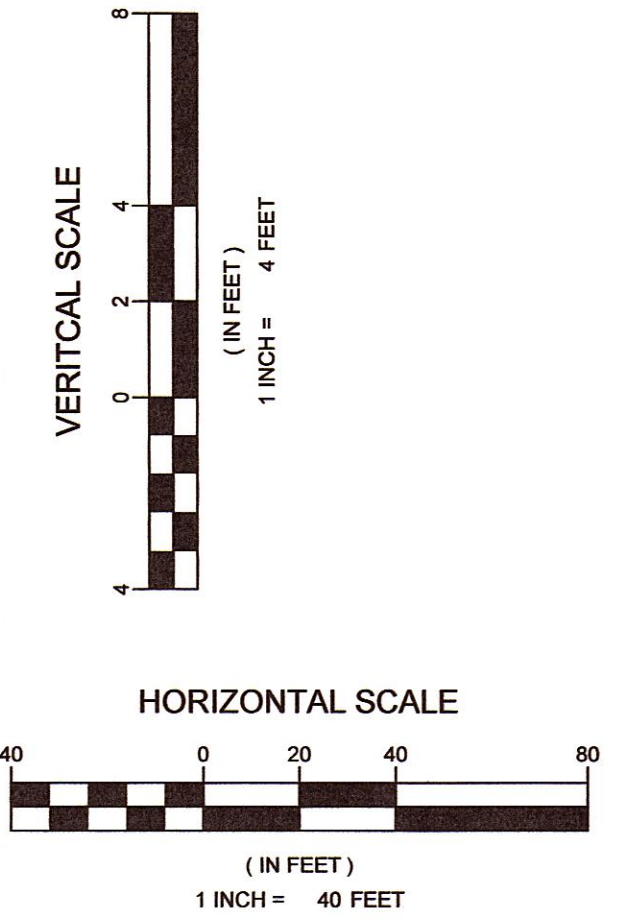
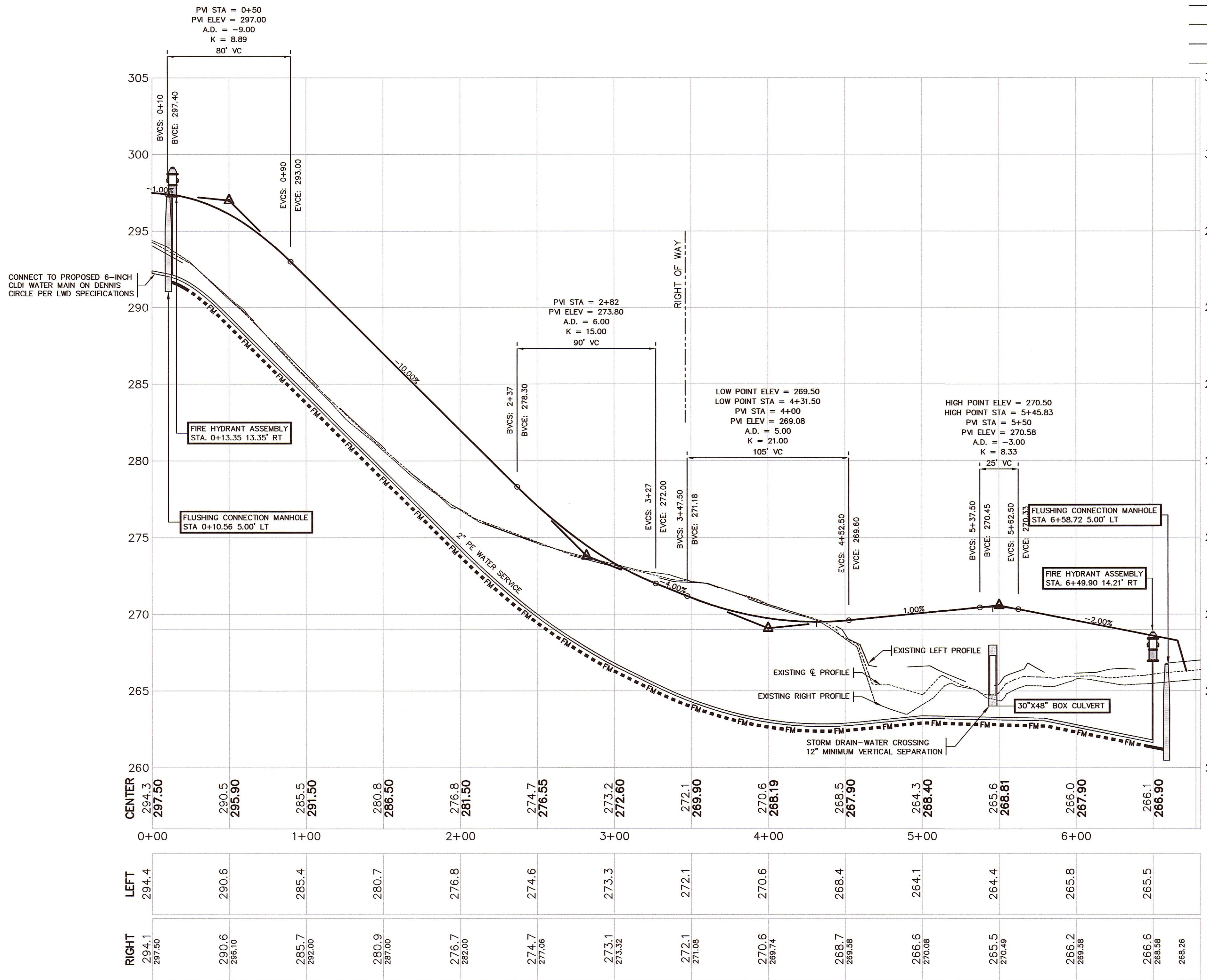
APPLICATION FILED

HEARING DATE

PLAN APPROVED

LEGEND	
EXISTING	PROPOSED
100.0	100.0 FG
W	W
WS	WS
FS	FS
WV	WV
FH	FH
FM	FM
SS	SS
SMH	SMH
GS	GS
GV	GV
E	E
OHW	OHW
U	U
G	G
E	E
SD	SD
UD	UD
RD	RD
FD	FD
CB	CB
DMH	DMH
199-1	

ABBREVIATIONS			
EL	ELEVATION	HDPE	HIGH DENSITY POLYETHYLENE
INV	INVERT	PVC	POLYVINYL CHLORIDE
SF	SQUARE FEET	RCP	REINFORCED CONCRETE PIPE
AC	ACRES	N/F	NOW OR FORMERLY
FT	FEET	VP	VERTICAL POOL
R	RADIUS	WF	WETLAND FLAG
DIA	DIAMETER	TW	TOP OF WALL
BIT	BITUMINOUS	BW	BOTTOM OF WALL
CONC	CONCRETE	FG	FINISH GRADE
L	LENGTH	BSMT	BASEMENT
S	SLOPE	FF	FINISH FLOOR



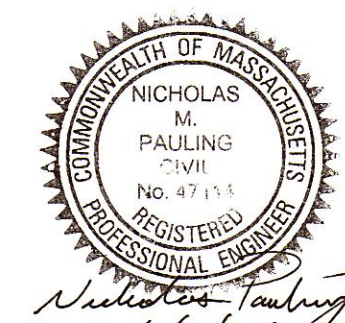
DRAWING ISSUED FOR:

☐ CONCEPT ☐ CONSTRUCTION

☒ PERMIT ☐ CONSTRUCTION RECORD

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PER 250 CMR 5.03(13), THE FOLLOWING ARE EXCLUDED FROM THE PROFESSIONAL ENGINEER'S RESPONSIBILITY: ALL BOUNDARY INFORMATION; LOCATION OF EXISTING STRUCTURES, TREES, UTILITIES, TOPOGRAPHY OR SIMILAR FEATURES; DESIGN OF RETAINING WALLS, PROPRIETARY EQUIPMENT. SEE EXISTING CONDITION NOTES.



NO.	DATE	BY	APP.	REVISION DESCRIPTION
1	10/08/19	MCL	NMP	PEER REVIEW & TOWN COMMENTS

GPR Engineering Solutions for Land & Structures

GOLDSMITH, PREST & RINGWALL, INC.
39 MAIN STREET, SUITE 301, AYER, MA 01432
CIVIL ENGINEERING • LAND SURVEYING • LAND PLANNING
VOICE: 978.772.1590 FAX: 978.772.1591
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**DEFINITIVE RESIDENTIAL SUBDIVISION
OPEN SPACE DEVELOPMENT**

**ROADWAY PLAN AND PROFILE
ALFRED TRAIL**

**HEALY CORNER
195 TAHATTAWAN ROAD
LITTLETON, MA**

PREPARED FOR:
GLAVEY FAMILY TRUST
P.O. BOX 381
LITTLETON, MA 01460

DES. BY: MCL	DATE: AUGUST 2019	JOB 171088	C7.2
CHK. BY: NMP			

EROSION AND SEDIMENT CONTROL REQUIREMENTS

PART 1 -- GENERAL

- 1.01 SUMMARY
- A. FURNISH, INSTALL, AND MAINTAIN TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES, SUCH AS, BUT NOT NECESSARILY LIMITED TO, HAY BALE AND SILT FENCE BARRIERS, RIPRAP, DIVERSION CHANNELS AND BERMS, CHECK DAMS, STRATEGICALLY LOCATED STOCKPILES, SEDIMENT BASINS, MULCH, AND SEED MIX (HEREINAFTER "CONTROL MEASURES") ADEQUATE TO PREVENT THE CONVEYANCE OF EROSION PRODUCTS (E.G. SOIL, MULCH, SOD) OFF SITE, OR INTO ENVIRONMENTALLY SENSITIVE AREAS, OR INTO AREAS WHERE WORK WILL BE ADVERSELY IMPACTED. ENVIRONMENTALLY SENSITIVE AREAS INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, WETLANDS, TRIBUTARIES TO WETLANDS, WETLAND BUFFER ZONES, INTERMITTENT AND PERENNIAL STREAMS / RIVERS, AND THEIR ATTENDANT BUFFER ZONES.
1. REFER TO DRAWINGS FOR LOCATION AND DETAILS OF CONTROL MEASURES REQUIRED TO COMMENCE WORK. THESE CONTROL MEASURES WILL BE ADEQUATE ONLY FOR VEGETATION CLEARING. THE DRAWINGS ARE NOT INTENDED TO GRAPHICALLY DEPICT ALL CONTROL MEASURES THAT WILL BE REQUIRED TO MEET THE REQUIREMENTS DESCRIBED IN 1.01.A.
2. DEVISE AND EMPLOY CONTROL MEASURES THROUGHOUT THE DURATION OF PROJECT, OVER ALL AREAS DISTURBED OR UNDISTURBED BY CONSTRUCTION, AS NECESSARY TO MEET THE REQUIREMENTS DESCRIBED IN 1.01.A.
3. DEVISE AND EMPLOY TEMPORARY CONTROL MEASURES AS NECESSARY TO MEET THE REQUIREMENTS DESCRIBED IN 1.01.A, WHILE ALLOWING WORK TO PROCEED IN AN EFFICIENT, COST EFFECTIVE MANNER.
4. DEVISE, EMPLOY AND MAINTAIN CONTROL MEASURES UNTIL SUCH TIME AS THE ENTIRE SITE IS PERMANENTLY STABILIZED BY ESTABLISHED VEGETATION, FINISH LANDSCAPE MATERIALS, PAVED SURFACES, AND/OR ROOF AREA.
5. ONCE THE SITE IS PERMANENTLY STABILIZED AND CERTIFIED AS SUCH BY ENGINEER, REMOVE TEMPORARY CONTROL MEASURES WHILE PROTECTING STABILIZED SURFACES.

1.02 SUBMITTALS

- A. SUBMIT PRODUCT DATA, WARRANTY, AND TEST REPORTS AS INDICATED ON THE DRAWINGS.
- 1.03 QUALITY ASSURANCE
- A. COMPLY WITH GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS FROM ACCEPTABLE MANUFACTURERS. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

- B. CONFORM TO CONDITIONS OF APPROVAL ISSUED BY REGULATORY AGENCIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, LOCAL PLANNING BOARD, CONSERVATION COMMISSION, BOARD OF SELECTMEN, BOARD OF HEALTH, PUBLIC WORKS / HIGHWAY DEPARTMENT, STATE ENVIRONMENTAL PROTECTION DEPARTMENT, AND U.S. GOVERNMENT, ENVIRONMENTAL PROTECTION AGENCY, WHERE CONDITIONS OF REGULATORY APPROVAL DIFFER FROM REQUIREMENTS CONTAINED HEREIN OR ON THE DRAWINGS, COMPLY WITH THE MORE STRINGENT REQUIREMENT.

PART 2 -- PRODUCTS

- 2.01 MATERIALS
- A. STRAW BALES: DRY GRASS OR STRAW, MACHINE BOUND WITH JUTE OR WIRE, APPROXIMATE SIZE EACH BALE 42" X 16" X 16".
- B. SILT FENCE: NON-WOVEN, UV-RESISTANT, POLYPROPYLENE FABRIC, FLOW RATED AT 10 GPM/SF MINIMUM, GRAB TENSILE RATED AT 124 POUNDS MINIMUM, WITH INTEGRAL STAKE LOOPS, AND HARDWOOD STAKES. USE NO. 2130 BY AMOCO FABRICS & FIBERS, OR APPROVED EQUAL.
- C. STRAW WATTLES: 100% WHEAT STRAW WITH NATURAL BIO-DEGRADABLE JUTE NETTING. MINIMUM 9-INCH DIAMETER AND 10 FEET LONG. USE DIAMETER 12-INCH OR 20-INCH DIAMETER WATTLES TO PROTECT LARGER UNSTABLE AREAS.
- D. MULCH: ORGANICS INCLUDING HAY, PROCESSED PINE / HEMLOCK TWIGS AND NEEDLES.
- E. SEED MIXES: PERENNIAL RYEGRASS, KENTUCKY BLUEGRASS, AND / OR FINE FESCUE, DISEASE RESISTANT. NON-MAINTAINED AREA OPTION - ANNUAL RYEGRASS COMBINED WITH MEDIUM RED CLOVER.
- F. EXCELSIOR BLANKET: CURLED WOOD FIBER ON PHOTODEGRADABLE EXTRUDED PLASTIC MATRIX. 80% OF FIBERS 6-INCHES LONG OR LONGER, WEIGHT 0.975 POUNDS / SY, CONTAINING NO CHEMICAL ADDITIVES. USE CURLEX I BLANKET BY AMERICAN EXCELSIOR COMPANY, OR APPROVED EQUAL.
- G. ROCK RIPRAP: SOUND, ANGULAR, 6-INCH MINUS PROCESSED ROCK, BLAST ROCK, OR TAILINGS.
- H. CRUSHED STONE: SOUND, ANGULAR, 2-INCH MINUS PROCESSED CRUSHED STONE

PART 3 -- EXECUTION

- 3.01 THROUGHOUT CONSTRUCTION
- A. DEVISE WORK SEQUENCE SUCH AS TO LIMIT DRAINAGE AREA THAT IS TRIBUTARY TO DISTURBED AREAS. DEVISE, EMPLOY, AND MAINTAIN CONTROL MEASURES SUCH AS DIVERSION CHANNELS AND BERMS, STRATEGICALLY LOCATED STOCKPILES, AND SEDIMENT BASINS TO SUBDIVIDE DRAINAGE AREAS INTO SMALL, MANAGEABLE SUBAREAS, THEREBY MINIMIZING RUNOFF AND THE POTENTIAL FOR EROSION.
- B. MAINTAIN BARRIER AT LIMIT OF WORK AND PROTECT EXISTING VEGETATION / FACILITIES OUTSIDE OF LIMIT OF WORK.
- C. MAINTAIN SPARE MATERIAL STOCKPILES FOR IMMEDIATE EMPLOYMENT / REPAIR / EXPANSION OF CONTROL MEASURES. AT A MINIMUM, SUCH MATERIALS SHALL INCLUDE HAY BALES, SILT FENCE AND STAKES, AND CRUSHED STONE.
- D. INSPECT AND MAINTAIN EFFECTIVENESS OF CONTROL MEASURES BY REPAIRING AS NECESSARY TO ENSURE INTENDED FUNCTION; BY SUPPLEMENTING AS NECESSARY FOR ADEQUATE EXTENT; BY REMOVING TRAPPED PRODUCTS OF EROSION AS NECESSARY TO MAINTAIN EFFECTIVE TRAP VOLUME.
- E. LIMIT EXTENT OF WORK AREA SO THAT ALL DISTURBED AREAS CAN BE STABILIZED WITH CONTROL MEASURES WITHIN A 24-HOUR PERIOD.
- F. INSTALL CONTROL MEASURES AS SOON AS PRACTICABLE AFTER EACH MANAGEABLE PORTION OF EARTHWORK IS COMPLETE. EMPLOY TEMPORARY MEASURES AS NECESSARY TO STABILIZE DISTURBED AREAS, EVEN WHERE SUBSEQUENT CONSTRUCTION OPERATIONS MAY REQUIRE RE-DISTURBANCE.
- G. WHEN INTENSE RAINFALL IS EXPECTED, CONSIDER, DEVISE, AND EMPLOY REINFORCING CONTROL MEASURES PRIOR TO THE RAINFALL EVENT TO MEET THE REQUIREMENTS DESCRIBED IN 1.01.A. IF NECESSARY, EMPLOY TEMPORARY CONTROL MEASURES ON MATERIAL STOCKPILES TO COUNTERACT POTENTIAL SEDIMENT TRANSPORT DURING INTENSE RAINFALL.
- H. WHEN VEHICLE REFUELING IS REQUIRED ON SITE, CONDUCT REFUELING OPERATIONS OUTSIDE OF ENVIRONMENTALLY SENSITIVE AREAS.
- I. PROPERLY DISPOSE OF DEBRIS, SOLID WASTE, TRASH, AND CONSTRUCTION WASTE / BYPRODUCTS OFF SITE.
- J. SWEEP ON-SITE PAVED AREAS AND OFF-SITE STREETS AS NECESSARY TO PREVENT SILT AND DEBRIS ORIGINATING ON SITE FROM ENTERING CLOSED DRAINAGE SYSTEMS AND / OR ENVIRONMENTALLY SENSITIVE AREAS.

3.02 SITE PREPARATION AND ACCESS

- A. WALK SITE AND IDENTIFY LOCATIONS OF LIMIT OF WORK AND ENVIRONMENTALLY SENSITIVE AREAS. ESTABLISH CONSTRUCTION STAGING AREA, LOCATED BEYOND ENVIRONMENTALLY SENSITIVE AREAS.
- B. INSTALL CONTROL MEASURES AS SHOWN ON THE DRAWINGS, INCLUDING THOSE DEFINING THE LIMIT OF WORK.
- C. LIMIT VEHICULAR TRAFFIC TO AND FROM SITE TO MINIMIZE TRANSPORT OF SEDIMENT.

3.03 CLEARING, GRUBBING, AND STRIPPING

- A. SCHEDULE GRUBBING AND STRIPPING TO OCCUR IMMEDIATELY PRIOR TO EARTH DISTURBANCE, DEPENDING ON SITE AREA, CONSIDER MULTIPLE GRUBBING PHASES, SEQUENCED TO TAKE ADVANTAGE OF THE EROSION PREVENTION POTENTIAL OF EXISTING VEGETATIVE COVER.
- B. MINIMIZE THE AREA OF EXISTING VEGETATION REMOVED WHEREVER POSSIBLE.
- C. LOCATE AND SIZE STOCKPILES TO MINIMIZE EROSION POTENTIAL, TAKING ADVANTAGE OF TERRAIN SLOPE AND ASPECT, WHERE APPROPRIATE.
- D. PROTECT VEGETATION, INCLUDING ROOT SYSTEMS, BEYOND LIMIT OF CLEARING.
- E. PROCESS TIMBER, STUMPS, SLASH, AND BRUSH SO AS TO PROTECT ENVIRONMENTALLY SENSITIVE AREAS AND INSTALLED CONTROL MEASURES. PROPERLY DISPOSE OF EXCESS OFF SITE. BURIAL OF STUMPS ON SITE IS PROHIBITED.

3.04 EXCAVATION FOR BUILDING FOUNDATIONS AND UTILITIES

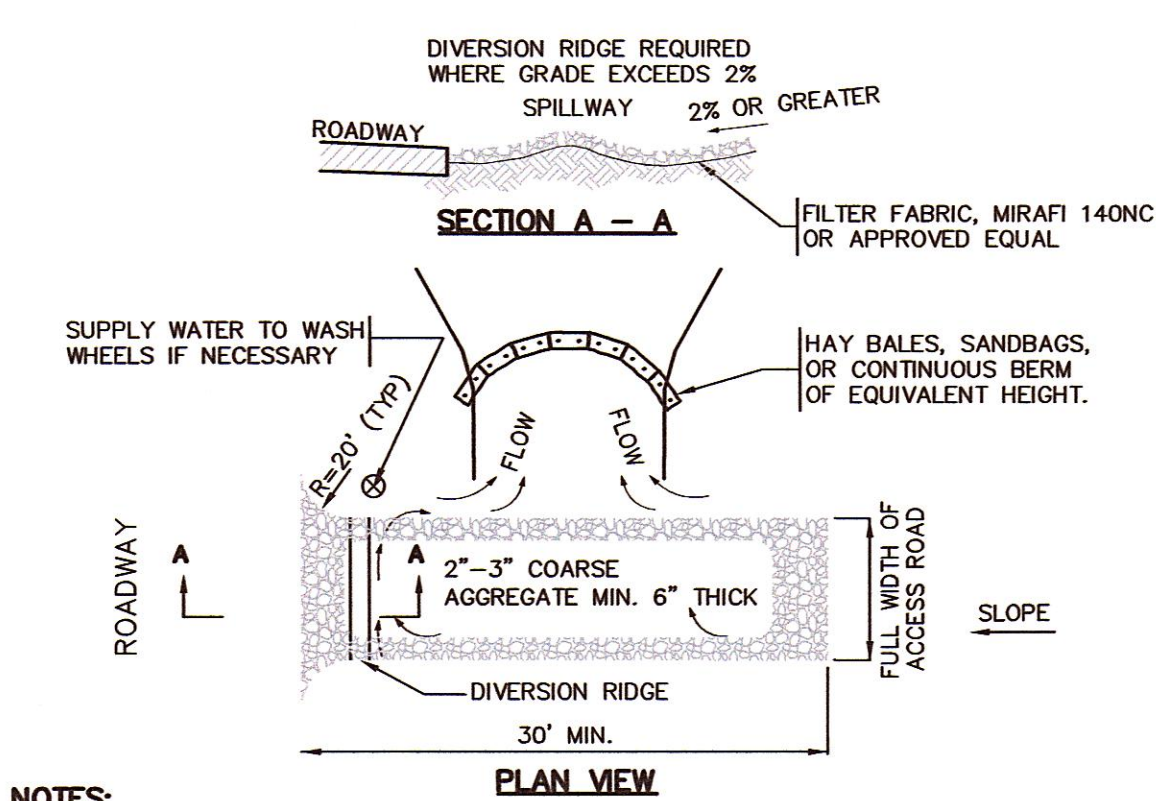
- A. DEVISE AND INSTALL CONTROL MEASURES ADEQUATE TO HANDLE DISCHARGES AND TRAP SEDIMENT FROM FOOTING SUMP AND WELL POINT PUMPS PRIOR TO EXCAVATION.
- B. ARMOR SUMP PUMP DISCHARGE LOCATIONS TO PREVENT EROSION AT POINT OF DISCHARGE AND AREAS DOWNSTREAM.
- C. IF FOUNDATION EXCAVATIONS GRADE TO DAYLIGHT ON THE LOW SIDE, DEVISE AND INSTALL CONTROL MEASURES TO HANDLE SURFACE AND GROUNDWATER FLOW FROM EXCAVATION LOW POINT.
- D. STOCKPILE EXCAVATED MATERIALS TO BAFFLE OVERLAND RUNOFF, AVOIDING THE CREATION OF LENGTHY PATHS OF CONCENTRATED RUNOFF.
- E. BACKFILL UTILITY TRENCHES AS SOON AS PRACTICABLE TO PREVENT FLOODING, SLOUGHING, POTENTIAL OVERFLOW, AND REPETITIVE EARTH DISTURBANCE.

3.05 SITE GRADING

- A. WHERE APPLICABLE, FOLLOW EXCAVATION AND FILL PRACTICES SHOWN ON DRAWINGS TO LOCALIZE AND MINIMIZE EROSION.
- B. MONITOR SEDIMENT VOLUME IN TEMPORARY SEDIMENT BASINS AND AT DIVERSION BERMS AND CHECK DAMS IN ALL AREAS EXCEPT THOSE THAT DO NOT PRESENT POTENTIAL PROBLEMS WITH REGARD TO FUTURE SOIL STABILITY, DRAINAGE, OR BEARING CAPACITY. REMOVE AND PROPERLY DISPOSE OF TRAPPED SEDIMENT BEFORE BRINGING SITE TO FINAL SUBGRADE.
- 3.06 STORMWATER MANAGEMENT SYSTEM
- A. THE STORMWATER MANAGEMENT SYSTEM INCLUDES, BUT IS NOT NECESSARILY LIMITED TO, ALL PERMANENT DETENTION / RETENTION BASINS, DISCHARGE STRUCTURES / WEIRS, CULVERTS, OPEN CHANNELS, CURBS, GUTTERS, PAVED SWALES, CATCH BASINS, DRAIN MANHOLES, DRAINAGE PIPES, ROOF DRAIN MANIFOLDS, WATER QUALITY SWALES, SEPARATORS, AND SIMILAR STORMWATER RUNOFF CONVEYANCE, TREATMENT, AND STORAGE FACILITIES.
- B. INSTALL STORMWATER MANAGEMENT SYSTEM COMPONENTS STARTING AT THE DOWNSTREAM END AND PROCEED UPSTREAM. WHERE POSSIBLE, COMPLETE INSTALLATION OF PERMANENT DETENTION / RETENTION BASINS PRIOR TO BEGINNING WORK ON UPSTREAM SYSTEM COMPONENTS.
- C. INSTALL CONTROL MEASURES AT FINISHED UPSTREAM AND DOWNSTREAM PIPE ENDS AS SOON AS POSSIBLE AFTER COMPLETION OF PIPE RUN. SUCH MEASURES INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, RIPRAP, CHECK DAMS, HAY BALE / SILT FENCE BARRIERS, AND VELOCITY DISSIPATORS.
- D. AT THE END OF EACH DAY OR WHEN RAINFALL IS EXPECTED, PLUG UPSTREAM END OF PIPES / DAM OPEN CHANNELS OR OTHERWISE REDIRECT POTENTIAL RUNOFF AND PREVENT FLOW FROM ENTERING PARTIALLY COMPLETED SYSTEM / SYSTEM COMPONENTS.
- E. WHERE PORTIONS OF A NEW SYSTEM ARE TO BE ACTIVATED PRIOR TO COMPLETION OF THE ENTIRE SYSTEM, EMPLOY CONTROL MEASURES TO PREVENT SILT AND DEBRIS FROM ENTERING THE SYSTEM. EMPLOY SILT SACKS OR FABRIC ON CATCH BASIN INLETS, AND PIPE AND CULVERT OPENINGS. EMPLOY CHECK DAMS AND TEMPORARY SEDIMENT BASINS UPSTREAM OF AND ALONG OPEN CHANNELS, SWALES, AND DITCHES TO TRAP SEDIMENT UPGRADIENT OF ENVIRONMENTALLY SENSITIVE AREAS.
- F. REMOVE TRAPPED SEDIMENT AND DEBRIS FROM ALL SYSTEM COMPONENTS AFTER COMPLETION OF INSTALLATION, AND AGAIN AFTER THE ENTIRE SITE IS PERMANENTLY STABILIZED BY ESTABLISHED VEGETATION, FINISH LANDSCAPE MATERIALS, PAVED SURFACES, AND/OR ROOF AREA. REMOVE TRAPPED SEDIMENT AND DEBRIS FROM DETENTION / RETENTION BASIN BOTTOMS SO THAT FINISH BOTTOM MATERIALS / INFILTRATION FUNCTION CONFORM TO DESIGN.

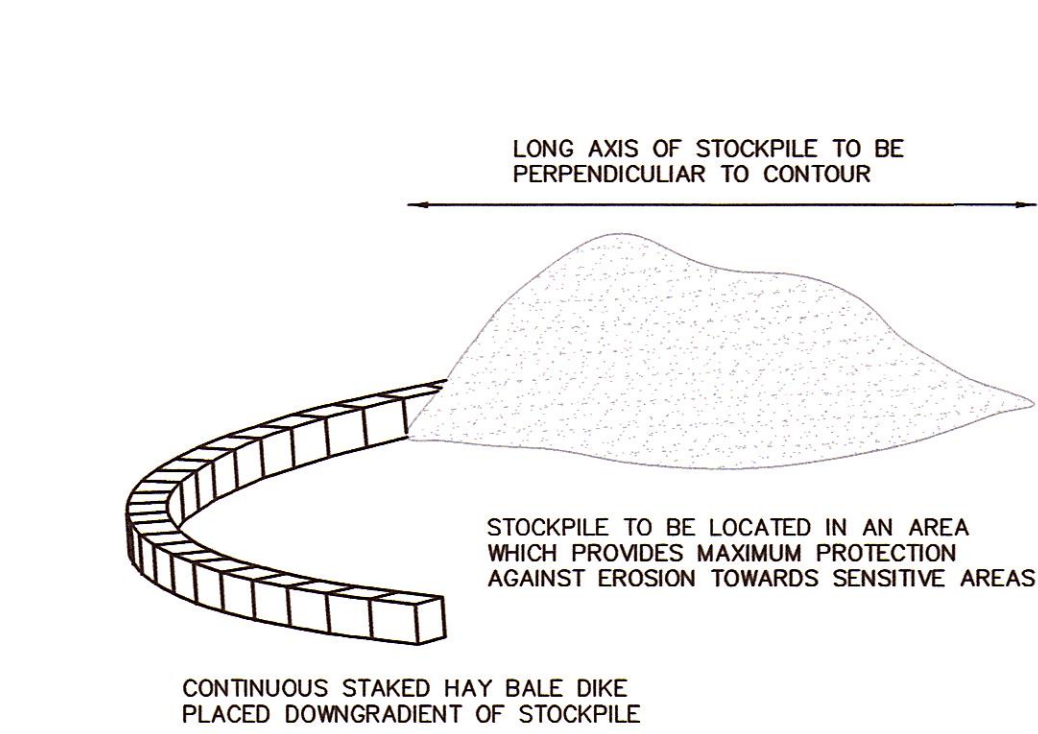
3.07 LANDSCAPING

- A. COMPLETE LANDSCAPING AS SOON AS POSSIBLE AFTER COMPLETION OF FINAL SUBGRADE.
- B. IMMEDIATELY AFTER PLACEMENT OF TOPSOIL, STABILIZE WITH CONTROL MEASURES INCLUDING, BUT NOT NECESSARILY LIMITED TO, SEED MIX, MULCH, AND / OR BLANKET.



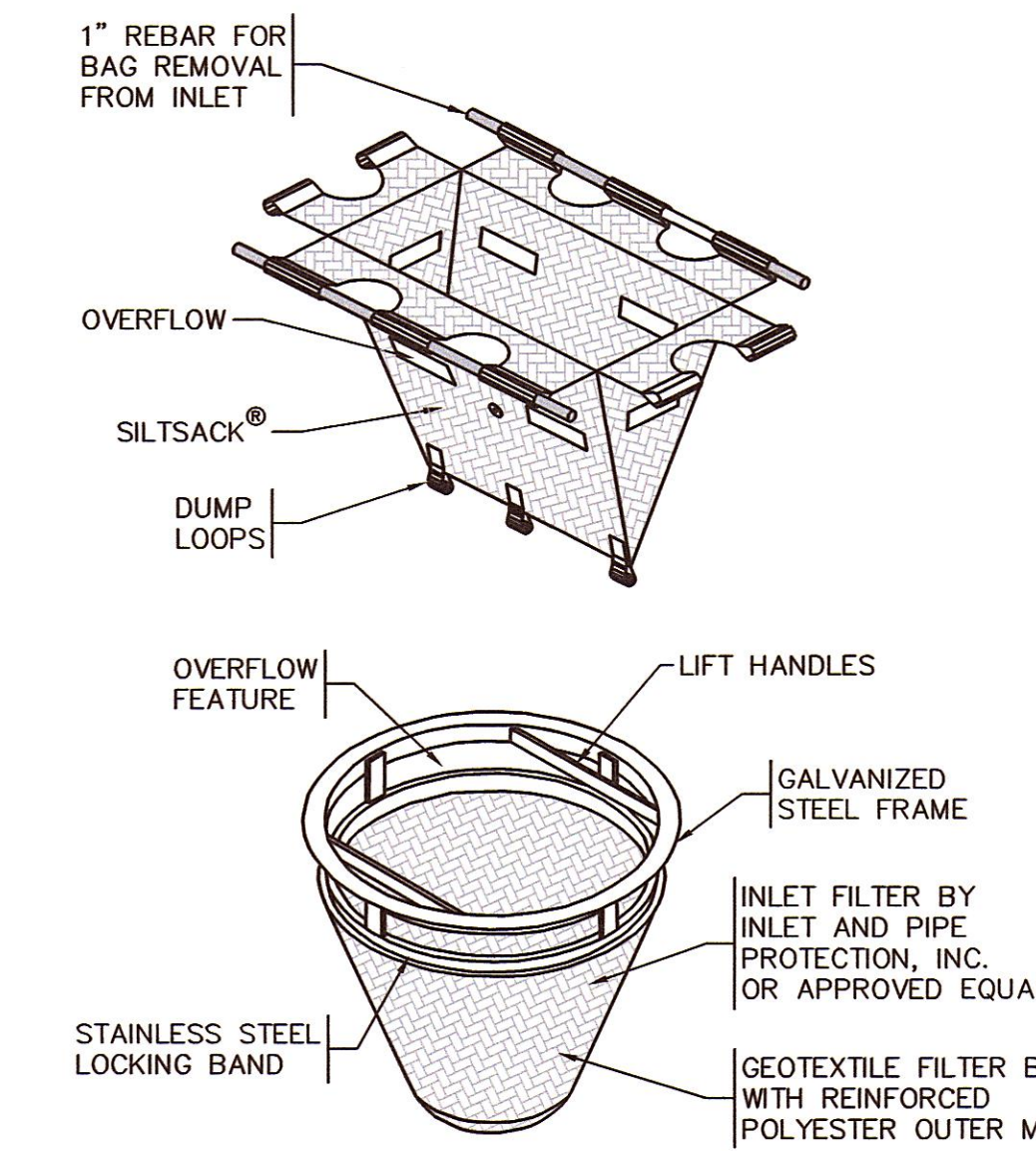
CONSTRUCTION ENTRANCE

NOT TO SCALE



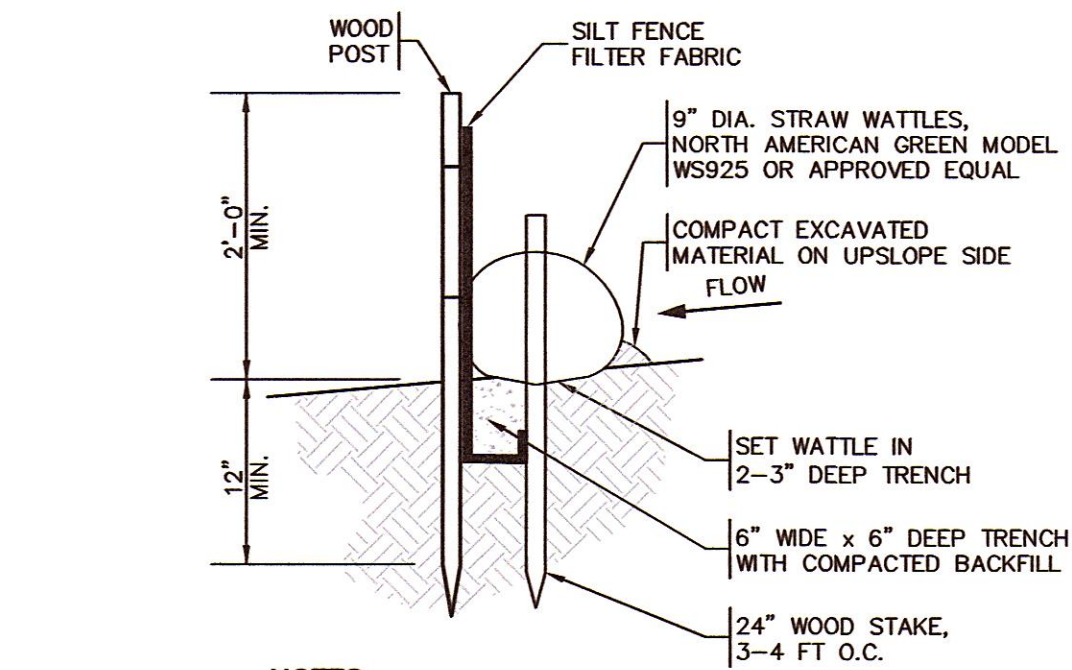
TEMPORARY STOCKPILE

ISOMETRIC VIEW NOT TO SCALE



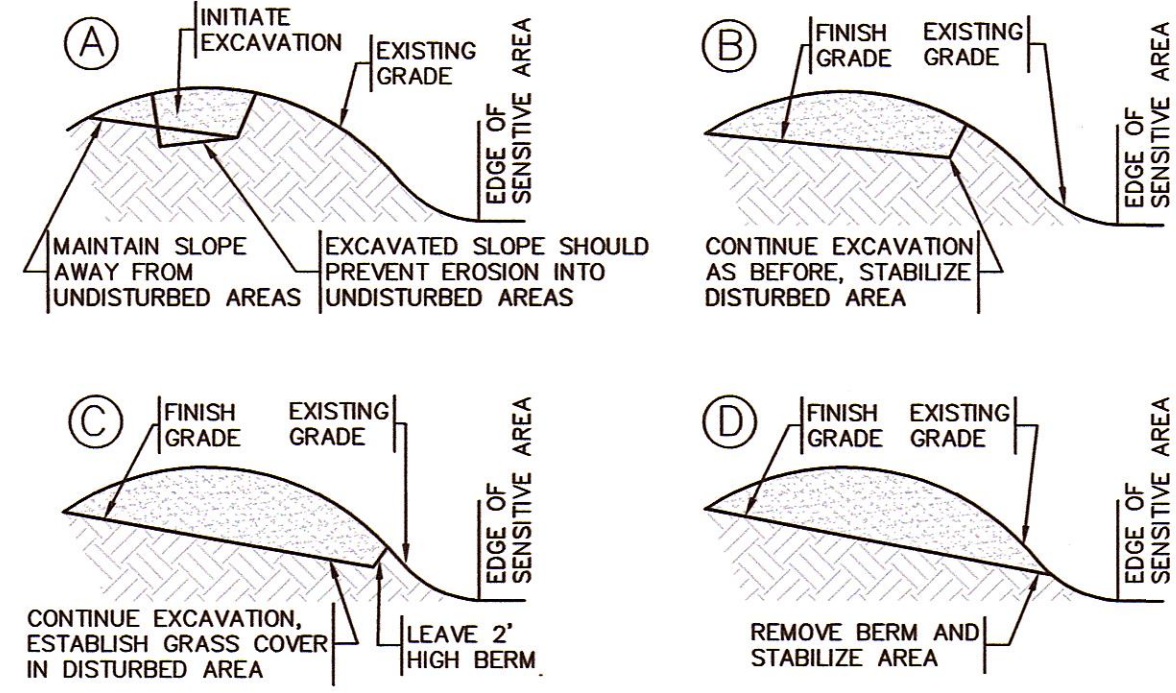
INLET PROTECTION

TYPICAL CROSS SECTION NOT TO SCALE



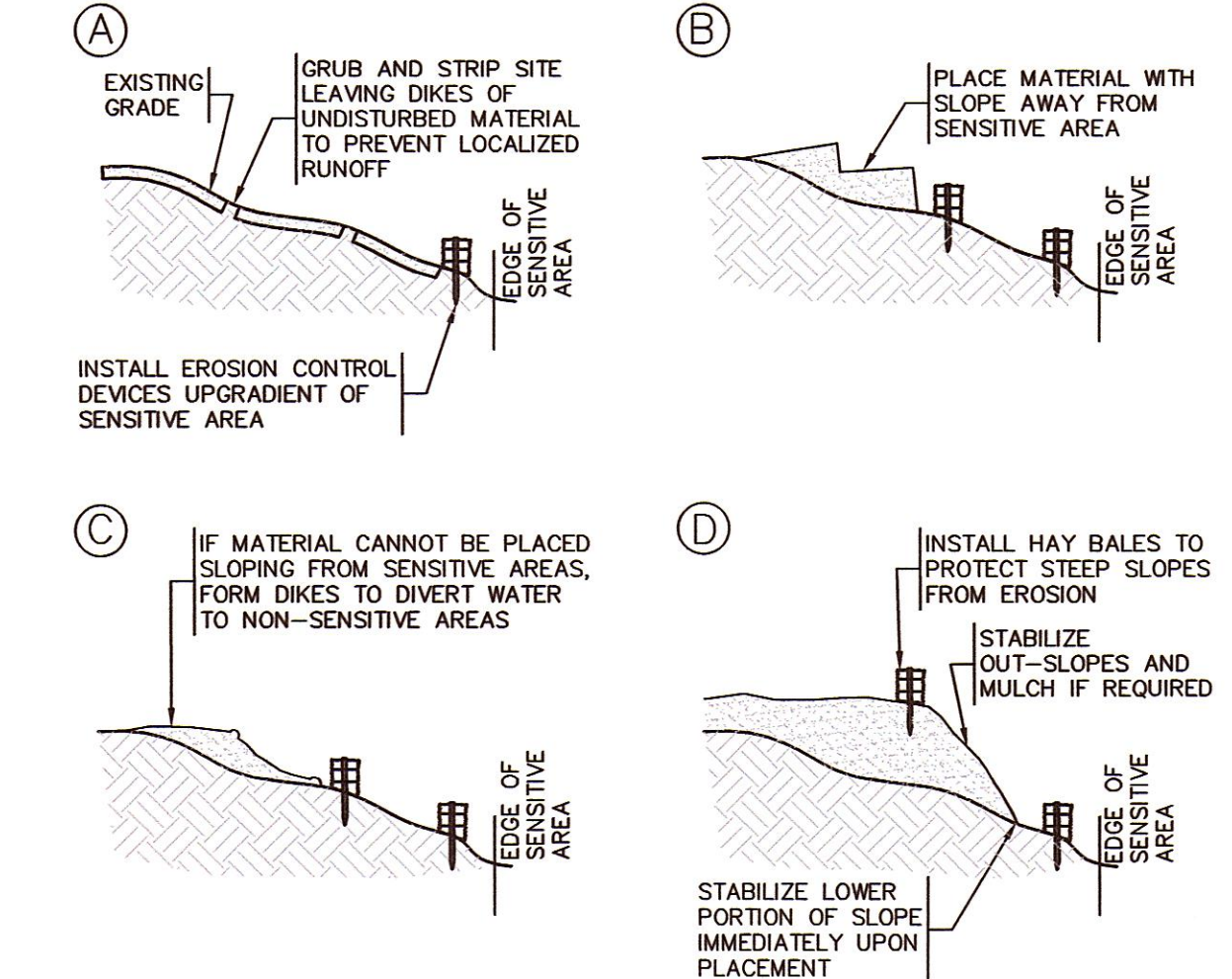
STRAW WATTLE / SILT FENCE BARRIER

TYPICAL CROSS SECTION NOT TO SCALE



EXCAVATION PROCEDURE

TYPICAL CROSS SECTION NOT TO SCALE



FILL PROCEDURE

SLOPE PROFILES NOT TO SCALE

_____, CLERK OF THE TOWN OF LITTLETON, HEREBY CERTIFY THAT THE NOTICE OF THE APPROVAL OF THIS PLAN BY THE PLANNING BOARD HAS BEEN RECEIVED AND RECORDED BY THIS OFFICE AND NO APPEAL WAS RECEIVED DURING THE 20 DAYS NEXT AFTER RECEIPT AND RECORDING OF SAID NOTICE.

LITTLETON TOWN CLERK _____ DATE _____

APPROVED BY THE LITTLETON PLANNING BOARD

_____, CHAIR
_____, APPLICATION FILED _____
_____, HEARING DATE _____
_____, PLAN APPROVED _____

DRAWING ISSUED FOR:

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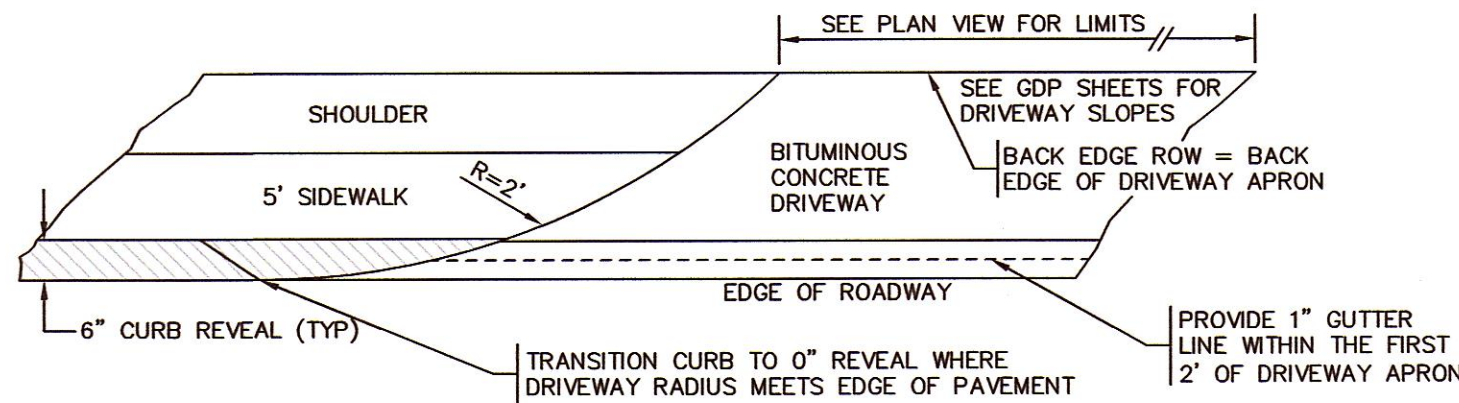
DEFINITIVE RESIDENTIAL SUBDIVISION OPEN SPACE DEVELOPMENT

STORMWATER POLLUTION PREVENTION DETAILS

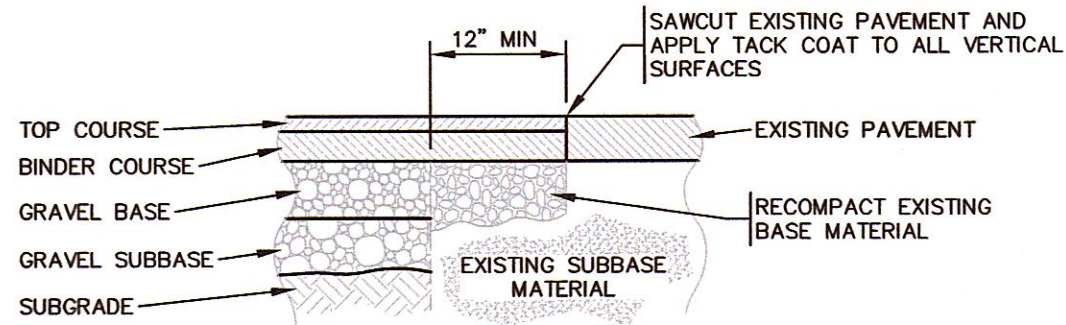
HEALY CORNER
195 TAHATTAWAN ROAD
LITTLETON, MA

PREPARED FOR:
GLAVEY FAMILY TRUST
P.O. BOX 381
LITTLETON, MA 01460

DES. BY: MCL	DATE: AUGUST 2019	JOB 171088	C8.2
CHK. BY: NMP			



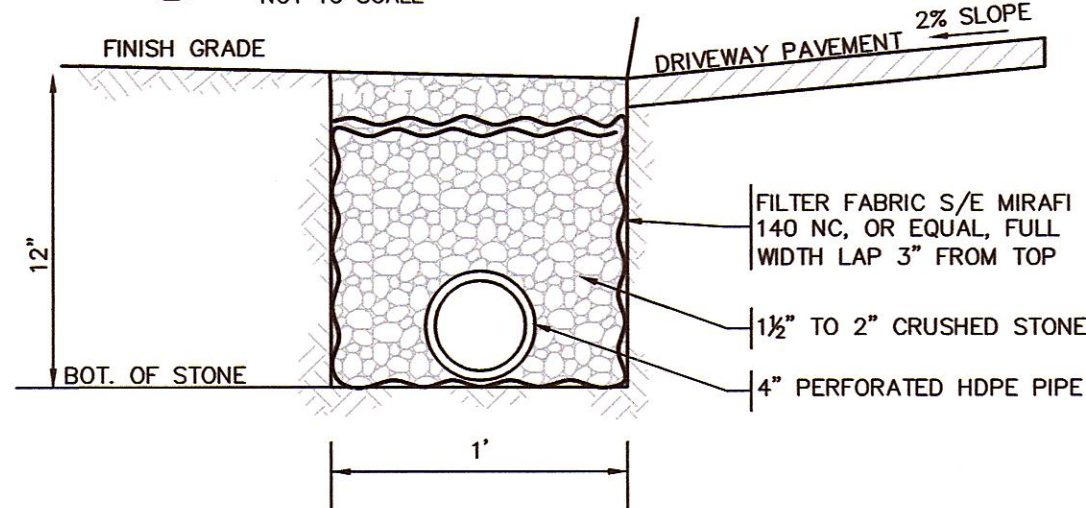
DRIVEWAY APRON
TYPICAL PLAN VIEW
NOT TO SCALE



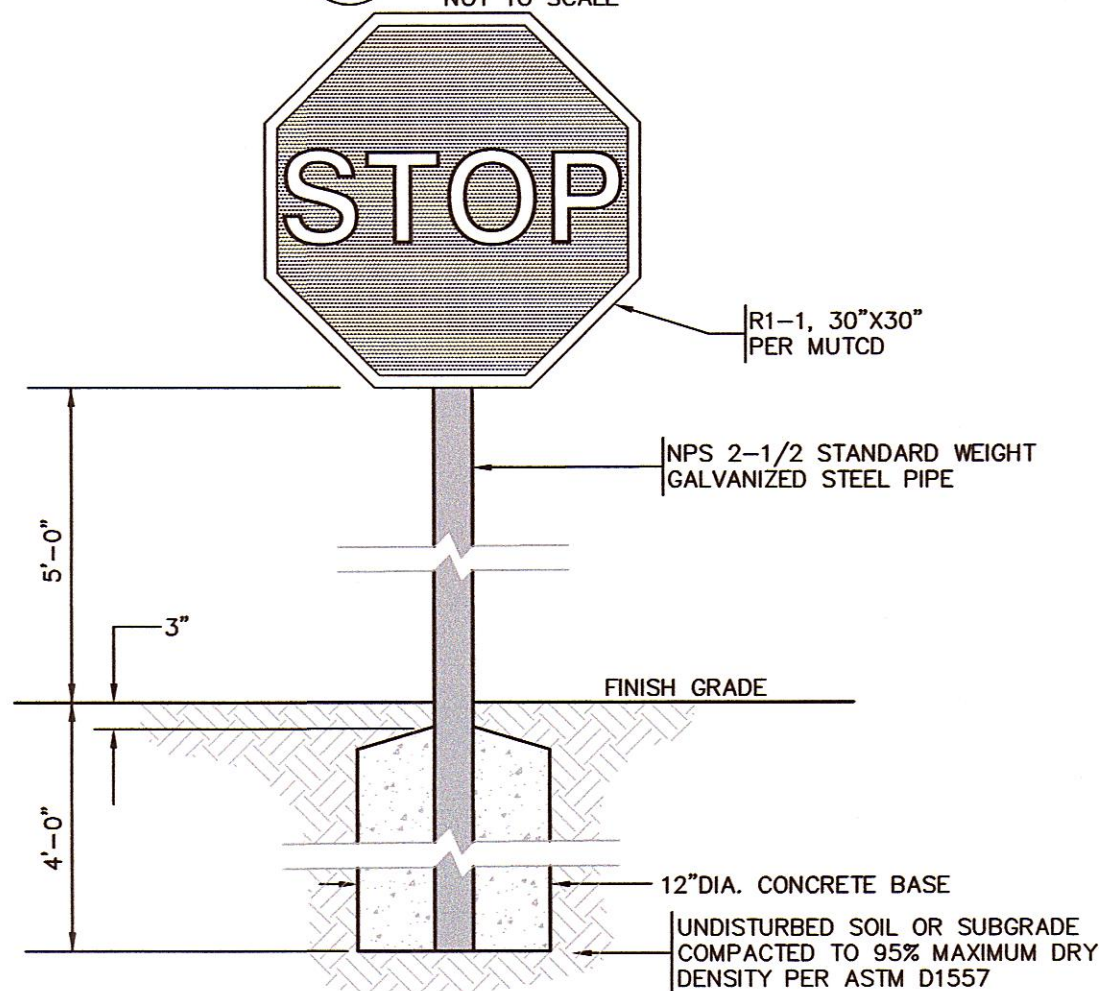
NOTES:

- [1] FLEXIBLE PAVEMENT REMOVAL SHALL BE INITIATED BY MAKING A FULL-DEPTH VERTICAL SAWCUT AT THE LOCATIONS INDICATED ON THE PLANS. SAWCUTS SHALL BE ACCOMPLISHED USING A STANDARD DIAMOND-TYPE BLADE SAW.
- [2] IF SAWCUT IS WITHIN THREE (3) FEET OF AN EXISTING BUILDING, CURB LINE OR EXISTING FENCE, COMPLETELY REMOVE EXISTING PAVEMENT AND REPLACE ACCORDING TO THE REQUIREMENTS OF THE BITUMINOUS CONCRETE PAVEMENT SECTION.

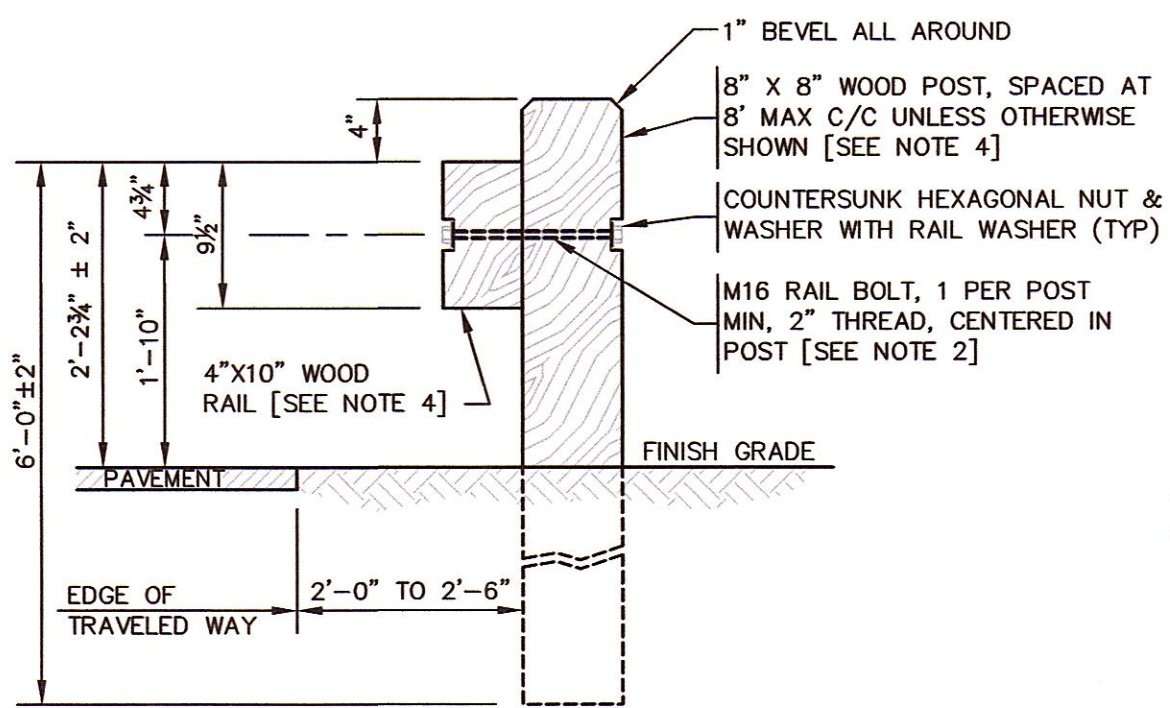
FLEXIBLE PAVEMENT SAWCUT DETAIL
TYPICAL CROSS SECTION
NOT TO SCALE



TRENCH DRAIN
TYPICAL CROSS SECTION
NOT TO SCALE



STOP SIGN
NOT TO SCALE

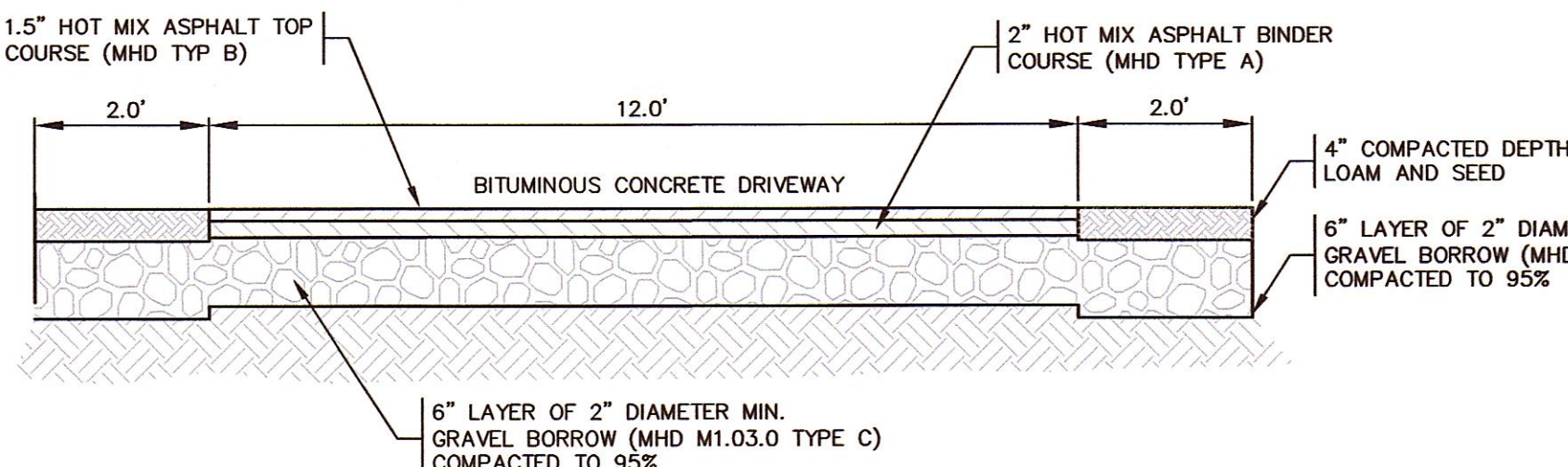


NOTES:

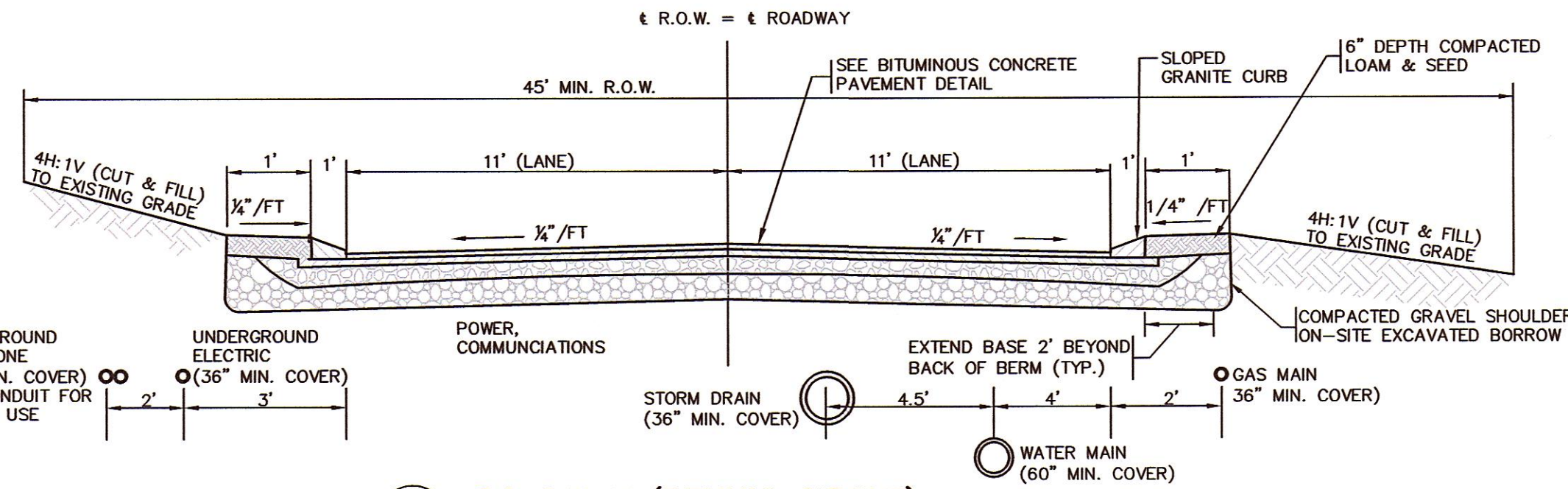
- [1] ALL NUTS, BOLTS & WASHERS ARE TO BE HIGH STRENGTH GALVANIZED STEEL.
- [2] ALL SPLICES ARE TO BE MADE AT POST; FOUR (4) BOLTS EACH SPLICE.
- [3] BACK-UP PLATE IS TO BE PLACED BEHIND RAIL ELEMENTS AT NON SPLICE LOCATIONS (INTERMEDIATE POSTS).
- [4] WOOD AND WOOD TREATMENT SHALL COMPLY WITH MASSACHUSETTS HIGHWAY DEPARTMENT SPECIFICATIONS AND STANDARDS.
- [5] TERMINAL SECTIONS SHALL BE IN ACCORDANCE WITH MASSACHUSETTS HIGHWAY DEPARTMENT SPECIFICATIONS AND STANDARDS.

WOOD GUARDRAIL
TYPICAL CROSS SECTION
NOT TO SCALE

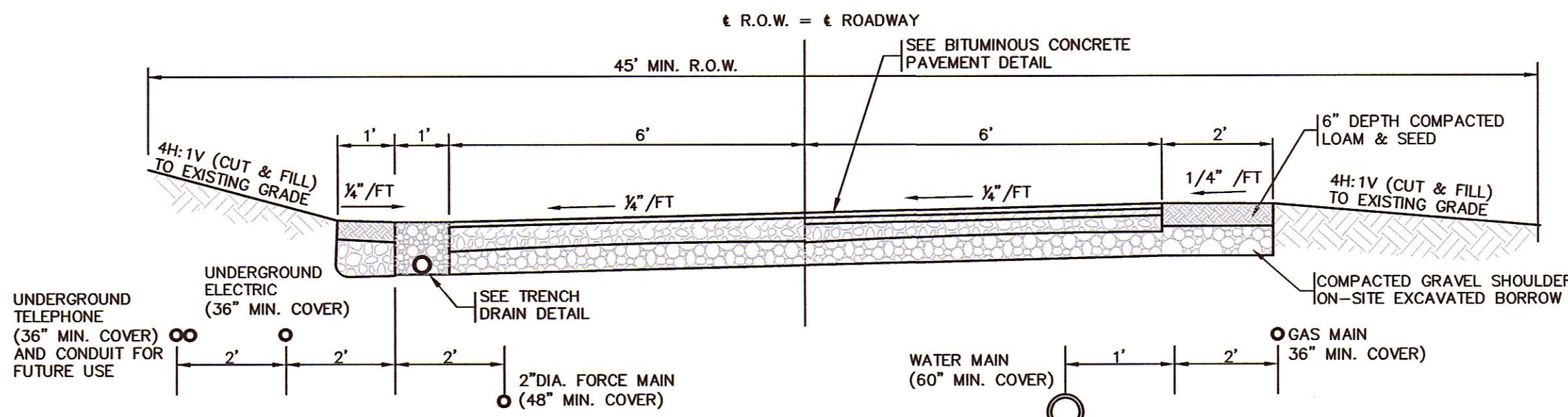
BITUMINOUS CONCRETE PAVEMENT
TYPICAL CROSS SECTION
NOT TO SCALE



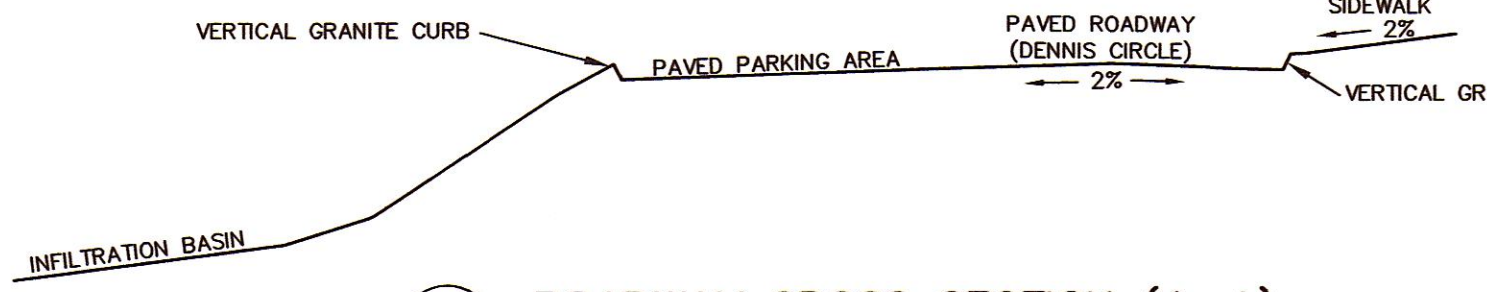
TYPICAL SECTION SHARED DRIVEWAY
NOT TO SCALE



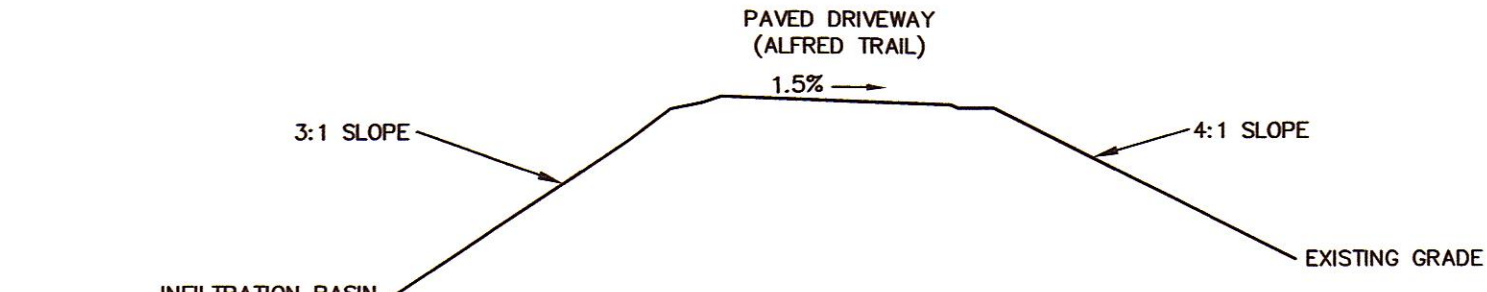
ROADWAY (DENNIS CIRCLE)
CROSS SECTION
NOT TO SCALE



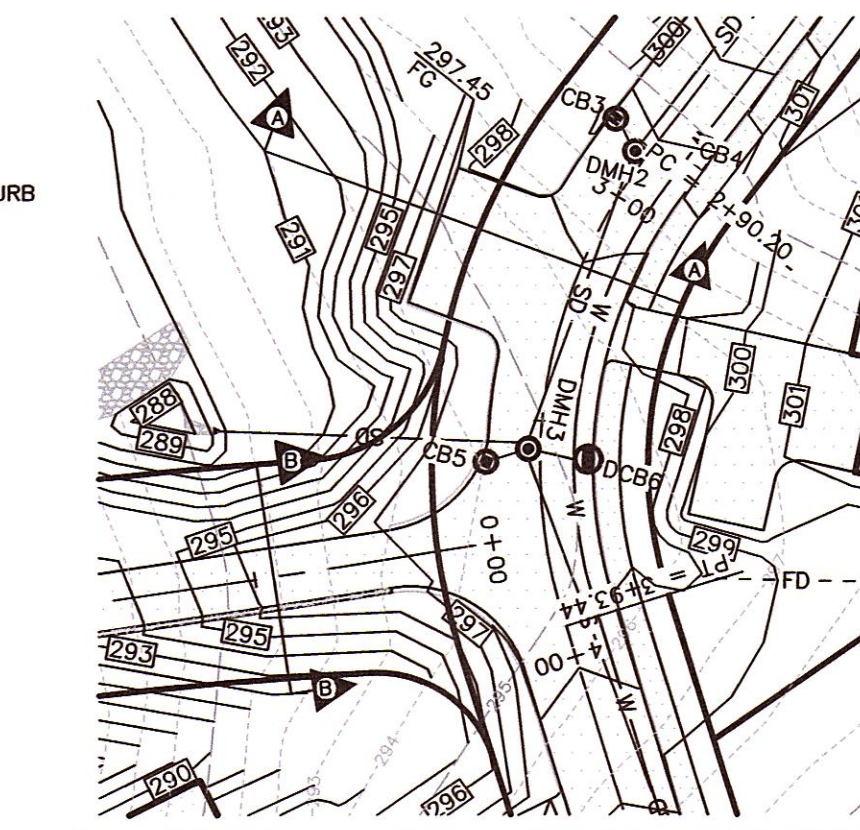
ROADWAY (ALFRED TRAIL)
CROSS SECTION
NOT TO SCALE



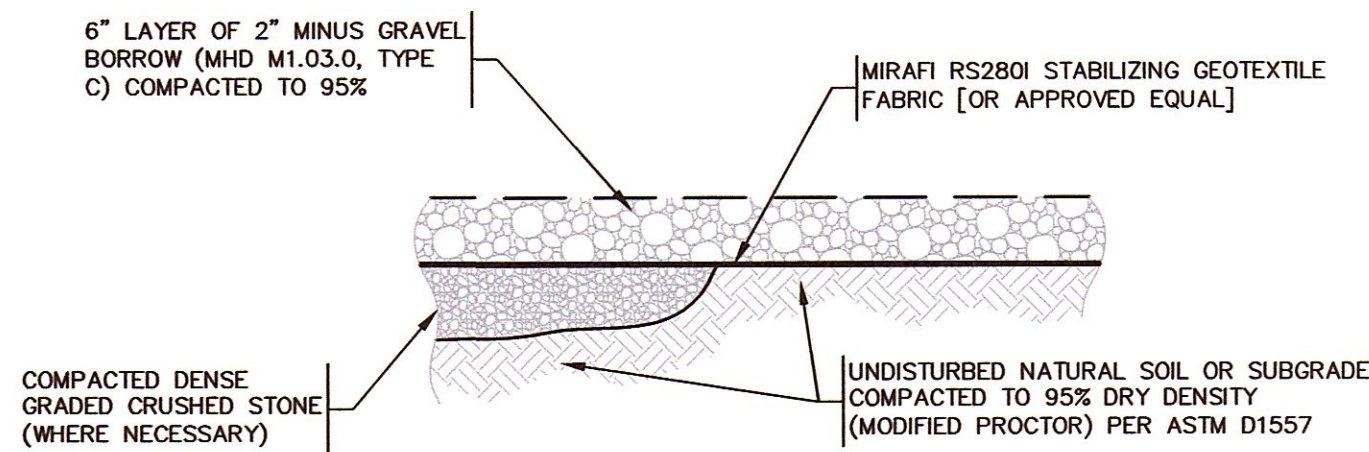
ROADWAY CROSS SECTION (A-A)
NOT TO SCALE



ROADWAY CROSS SECTION (B-B)
NOT TO SCALE



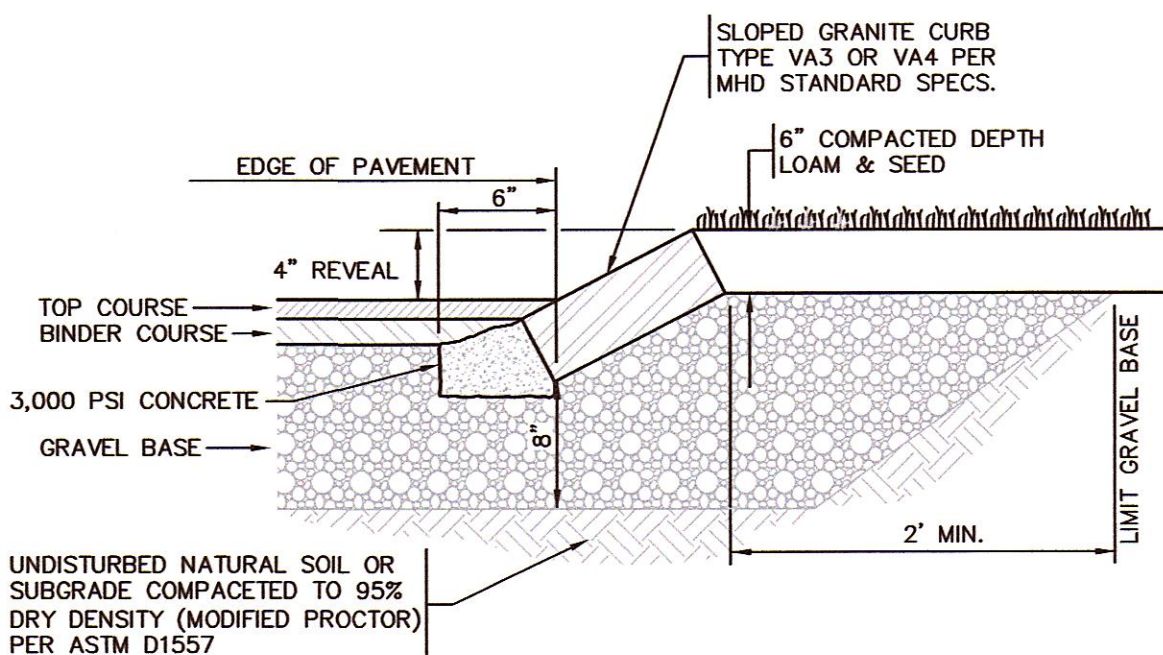
CRITICAL AREA CROSS SECTIONS
PLAN VIEW



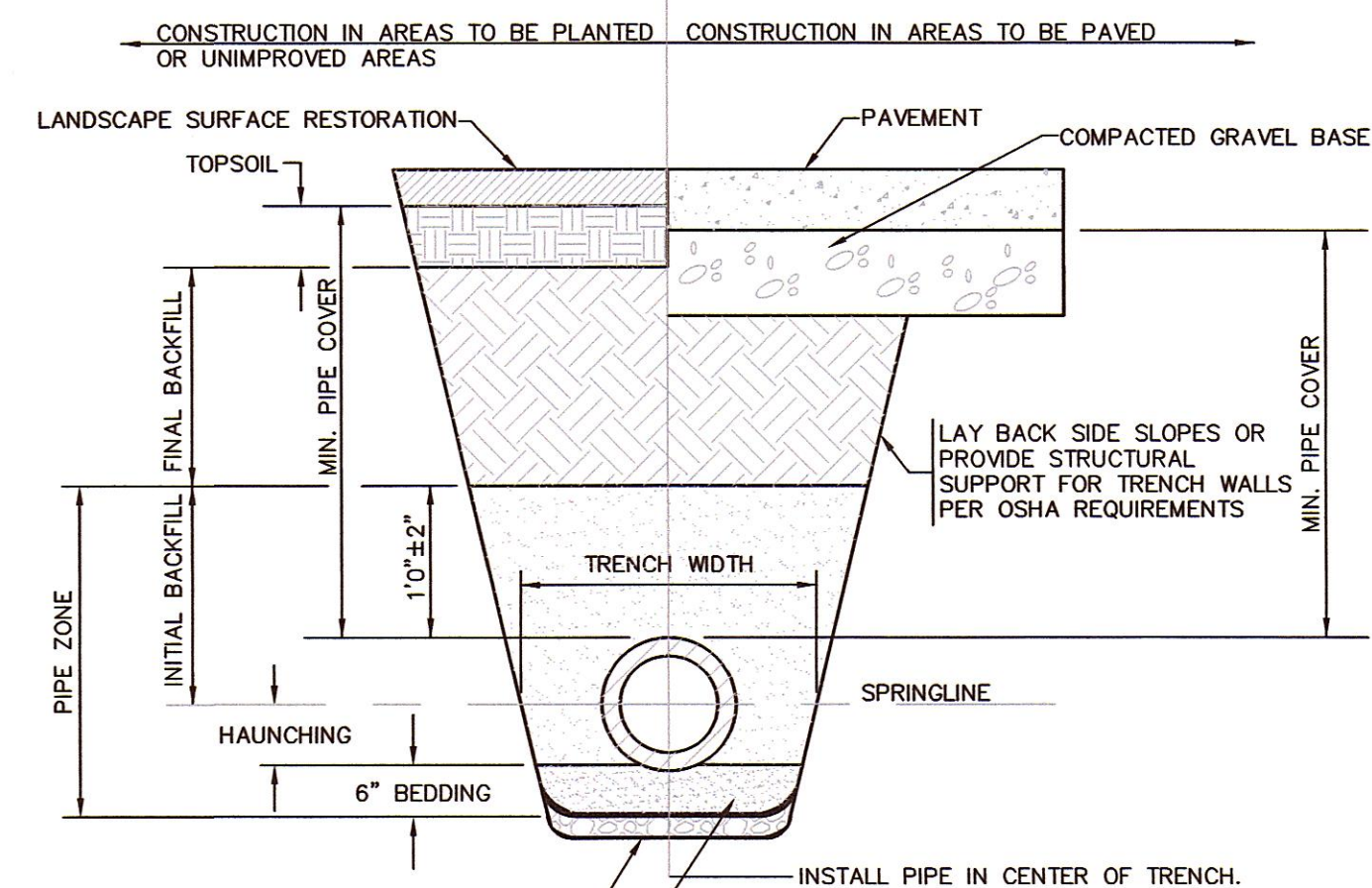
NOTES:

- [1] UNSUITABLE MATERIAL IN THE SUBGRADE SHALL BE REMOVED AND REPLACED WITH AN ACCEPTABLE SUBSTITUTE MATERIAL: 3/4" MINUS DENSE GRADED CRUSHED STONE.
- [2] FINAL GRAVEL DRIVEWAY STABILIZATION DESIGN TO BE CONFIRMED BY THE GEOTECHNICAL ENGINEER.

GRAVEL PARKING SPACE
TYPICAL CROSS SECTION
NOT TO SCALE



SLOPED GRANITE CURB
TYPICAL CROSS SECTION
NOT TO SCALE



PIPE TRENCH
TYPICAL CROSS SECTION
NOT TO SCALE

TRENCH WIDTH:
[1] MINIMUM WIDTH OF TRENCH MEASURED AT SPRINGLINE OF PIPE, INCLUDING ANY NECESSARY SHEATHING:

PIPE I.D.	WIDTH
LESS THAN 21"	O.D. + 12"
21" TO 42"	O.D. + 24"
GREATER THAN 42"	O.D. + 30"

MINIMUM PIPE COVER:

PIPE MATERIAL	HDP, PVC	RC, DI
WATER	5' - 0"	5' - 0"
SEWER	4' - 0"	4' - 0"
DRAIN	2' - 0"	1' - 0"

MATERIAL KEY NOTES (SEE TABLE BELOW):

- [1] PLACE 2" MINUS CRUSHED STONE.
- [2] PLACE 1/2" MINUS SAND BORROW (MHD M1.04.1), AT OPTIMUM MOISTURE IN HORIZONTAL 8" DEEP LOOSE LAYERS, COMPACT TO 95% PER ASTM D-1557 MODIFIED PROCTOR METHOD.
- [3] IN PLANTED OR UNIMPROVED AREAS, USE 2-INCH MINUS ON-SITE EXCAVATED MATERIAL. COMPACT TO 80% PER ASTM D-1557 IN PAVED AREAS, OBTAIN ENGINEER APPROVAL OF 2-INCH MINUS ON-SITE EXCAVATED MATERIALS.

FOUNDATION, BEDDING AND BACKFILL MATERIALS		
PIPE MATERIAL	HDP, PVC	RC, DI
FOUNDATION STABILIZATION	[NOTE 1]	[NOTE 1]
BEDDING	[NOTE 2]	[NOTE 2]
HAUNCHING	[NOTE 2]	[NOTE 2]
INITIAL BACKFILL	[NOTE 2]	[NOTE 2]
FINAL BACKFILL	[NOTE 3]	[NOTE 3]

DRAWING ISSUED FOR:

- ☐ CONCEPT ☐ CONSTRUCTION
☒ PERMIT ☐ CONSTRUCTION RECORD

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NO.	DATE	BY	APP.	REVISION DESCRIPTION
1	10/08/19	MCL	NMP	PEER REVIEW & TOWN COMMENTS

GPR Engineering Solutions for Land & Structures

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39 MAIN STREET, SUITE 301, AYER, MA 01432
CIVIL ENGINEERING • LAND SURVEYING • LAND PLANNING
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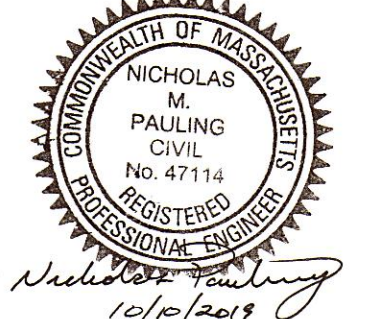
**DEFINITIVE RESIDENTIAL SUBDIVISION
OPEN SPACE DEVELOPMENT**

CONSTRUCTION DETAILS

**HEALY CORNER
195 TAHATTAWAN ROAD
LITTLETON, MA**

PREPARED FOR:
GLAVEY FAMILY TRUST
P.O. BOX 381
LITTLETON, MA 01460

DES. BY: MCL	DATE: AUGUST 2019	JOB 171088	C9.1
CHK. BY: NMP			



I, _____, CLERK OF THE TOWN OF LITTLETON, HEREBY CERTIFY THAT THE NOTICE OF THE APPROVAL OF THIS PLAN BY THE PLANNING BOARD HAS BEEN RECEIVED AND RECORDED BY THIS OFFICE AND NO APPEAL WAS RECEIVED DURING THE 20 DAYS NEXT AFTER RECEIPT AND RECORDING OF SAID NOTICE.

LITTLETON TOWN CLERK _____ DATE _____

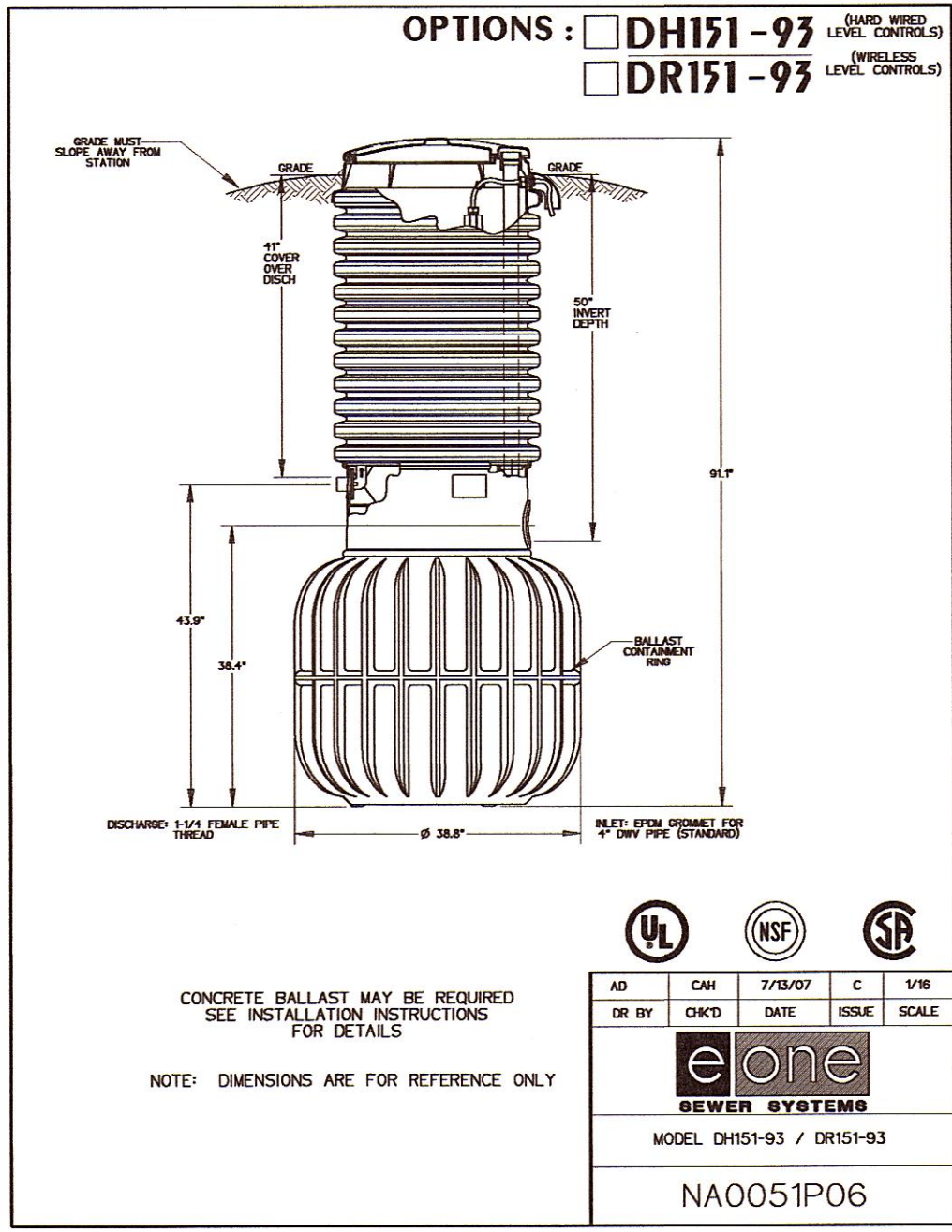
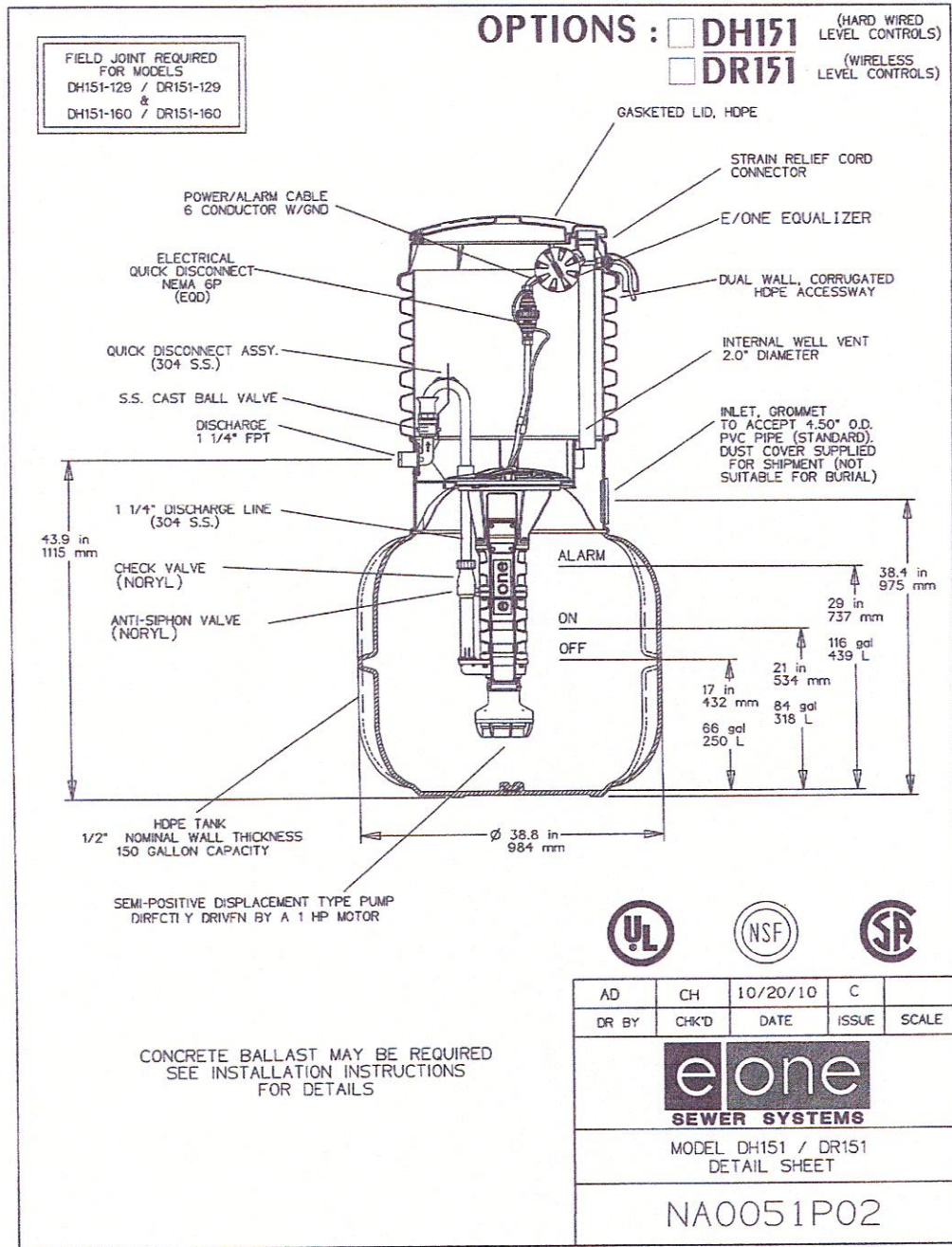
APPROVED BY THE
LITTLETON PLANNING BOARD

CHAIR

APPLICATION FILED

HEARING DATE

PLAN APPROVED



GRINDER PUMP SPECIFICATIONS

ALL SYSTEM COMPONENTS (310 CMR 15.221)

1. ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC TAPE OR A COMPARABLE MEANS IN ORDER TO LOCATE ONCE BURIED.

PIPE (310 CMR 15.221)

1. BUILDING SEWER: 4-INCH DIA. SCH 40 PVC, MIN. SLOPE 1/4 IN. PER FT.
2. FORCE MAIN: 2-INCH DIA. CL 160 GASKETED JOINT PVC FROM A 1 1/4-INCH DIA. SCH 40 PVC DISCHARGE LINE. THEN TO A 2-INCH DIA. CHECK VALVE TO AN EXISTING 2-INCH DIA. PVC. NO SOLVENT WELDED JOINTS SHALL BE LOCATED UNDER PROPOSED DRIVEWAY.
3. VENT BUILDING SEWER THROUGH MAIN STACK IN BUILDING SERVED BY IT.

GRINDER PUMP STATION (310 CMR 15.221, 15.231, 15.254)

1. MODEL NO. DH151-93. STATION RATED FOR H-10 LOADING. MANUFACTURER: E/ONE SEWER SYSTEMS, NISKAYUNA, NY, OR EQUAL.
2. DISTRIBUTED BY FR MAHONY & ASSOCIATES, ROCKLAND, MA (781) 982-9300.
3. STATION TYPICALLY DELIVERED IN 2 SECTIONS. CONTRACTOR TO NOTE STATION HEIGHT AND CUT HDPE ACCESSWAY ACCORDINGLY PRIOR TO ASSEMBLING FIELD JOINT.
4. REFER TO INSTALLATION INSTRUCTIONS PROVIDED BY MANUFACTURER FOR COMPLETE INSTRUCTIONS AND SPECIFICATIONS.
5. PERFORM ALL ELECTRICAL WORK IN ACCORDANCE WITH CODE REQUIREMENTS.
6. INSTALL NEMA 3 CONTROL PANEL ENCLOSURE, WITH WALL MOUNT CABINET, INCLUDING THE FOLLOWING:
 - 7. A VISIBLE AND AUDIBLE ALARM TO SIGNAL HIGH WATER, POWERED BY A SEPARATE, DEDICATED CIRCUIT, LOCATED IN THE BUILDING IT SERVES.
 - 8. INSTALL A REDUNDANT CHECK VALVE ASSEMBLY (E/ONE PART NO. PC0051GX) BETWEEN THE PUMP DISCHARGE AND THE RIGHT OF WAY PROPERTY BOUNDARY.

SPECIFICATIONS

PIPE

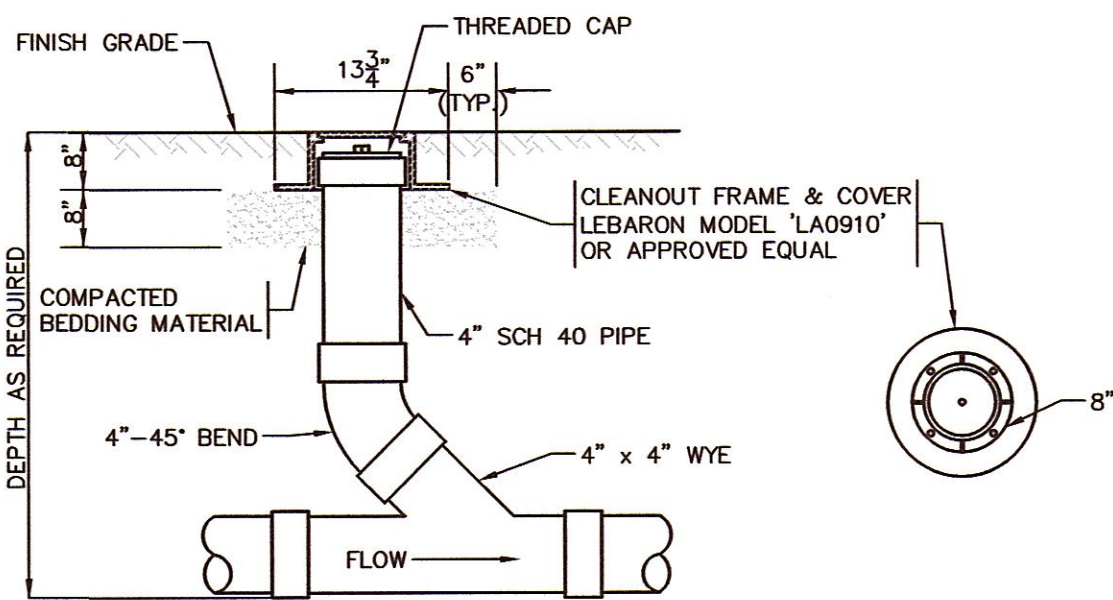
1. LOW PRESSURE SEWER SYSTEM FORCE MAIN: 3-INCH DIA. SCH.40 PVC.
2. LATERAL FORCE MAINS: 1 1/2-INCH DIA. SCH. 40 PVC.
3. GRAVITY SEWER LATERAL: 6-INCH DIA. SCH. 40 PVC.
4. BED, HAUNCH, AND BACKFILL ALL PIPE IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS. ALL JOINTS SHALL BE WATERTIGHT.
5. SOLVENT WELD ALL PVC JOINTS AND PRESSURE TEST ALL PIPES FOR WATER TIGHTNESS PER PIPE MANUFACTURES SPECIFICATION.
6. FORCE MAINS SHALL BE TESTED AT 150% ABOVE MAXIMUM OPERATING PRESSURE OR 150 PSI, WHICHEVER IS GREATER. TESTING SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARD C600. TESTS SHALL BE PERFORMED IN THE PRESENCE OF ENGINEER AND/OR LOCAL APPROVING AUTHORITY ON ALL PRESSURE PIPING PRIOR TO SYSTEM OPERATION.
7. GRAVITY SEWERS AND MANHOLES SHALL BE TESTED BY APPROVED METHODS WHICH WILL ACHIEVE TESTS RESULTS FOR INFILTRATION OR EXFILTRATION OF LESS THAN 100 GALLONS/INCH DIAMETER/MILE/24 HOURS.

FORCE MAIN CLEANOUTS

1. FORCE MAIN CLEANOUTS RATED FOR H-20 LOADING. MANUFACTURER: SHEA CONCRETE PRODUCTS, INC., WILMINGTON, MA (978-658-2645), OR EQUAL.
2. SEAL FORCE MAIN CLEANOUTS WATERTIGHT, USING RUBBER JOINT SEALER AND NON-SHRINK GROUT ALONG ALL JOINTS. A WATER TEST MAY BE REQUIRED.
3. ENTRY MANHOLE SHALL BE BROUGHT TO FINISH GRADE. WATERTIGHT FRAME AND COVER S/E LEBARON LBW328 WITH 3" LETTERS "SEWER".

REGULATORY NOTES:

1. CONTRACTOR SHALL CONTACT DIG-SAFE FOR UNDERGROUND UTILITY MARKING AT 811 AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF ANY WORK. CONTRACTOR SHALL GIVE TWENTY-FOUR (24)-HOUR NOTICE TO PERTINENT TOWN DEPARTMENTS BEFORE COMMENCING ANY WORK IN THE FIELD.
2. CONTRACTOR SHALL COORDINATE AND OBTAIN ALL CONSTRUCTION PERMITS REQUIRED BY REGULATORY AUTHORITIES. CONTRACTOR SHALL BE AWARE OF ALL CONSTRUCTION REQUIREMENTS, CONDITIONS, AND LIMITATIONS IMPOSED BY PERMITS AND APPROVALS ISSUED BY REGULATORY AUTHORITIES PRIOR TO COMMENCEMENT OF ANY WORK.
4. ALL WORK OUTSIDE OF BUILDING THAT IS LESS THAN 10 FEET FROM THE INSIDE FACE OF BUILDING FOUNDATION SHALL CONFORM WITH THE UNIFORM STATE PLUMBING CODE OF MASSACHUSETTS, 248 CMR 2.00.



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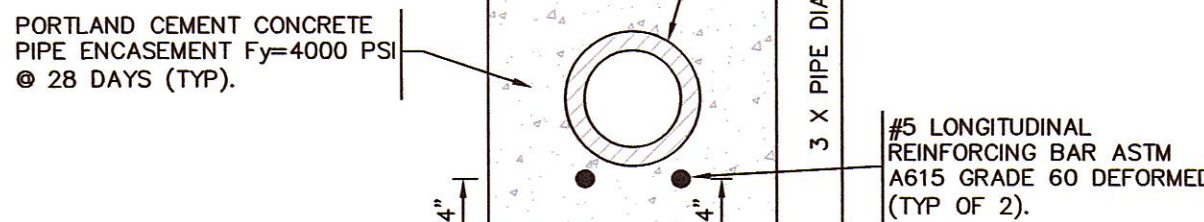
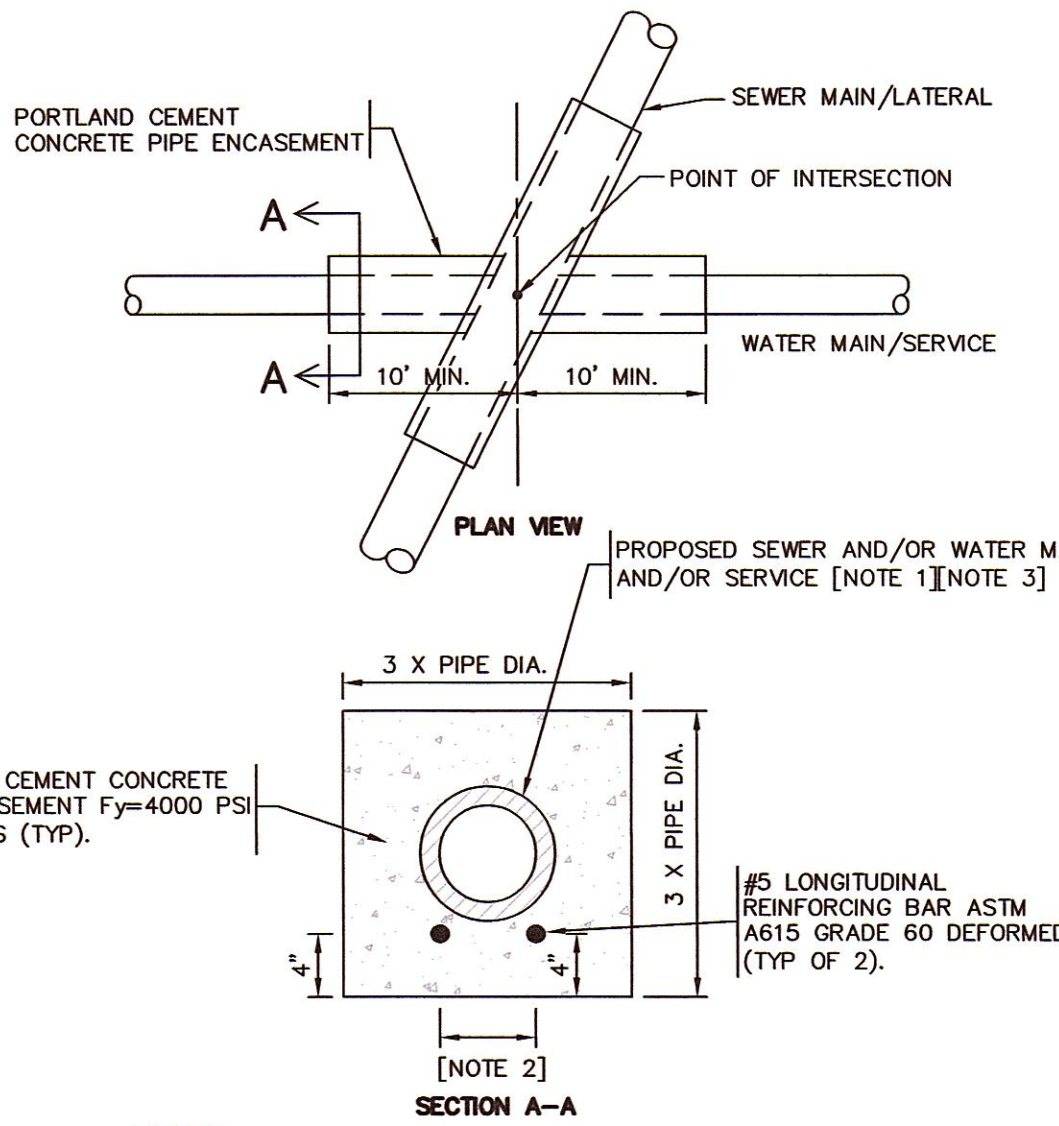
APPROVED BY THE LITTLETON PLANNING BOARD

CHAIR

APPLICATION FILED _____

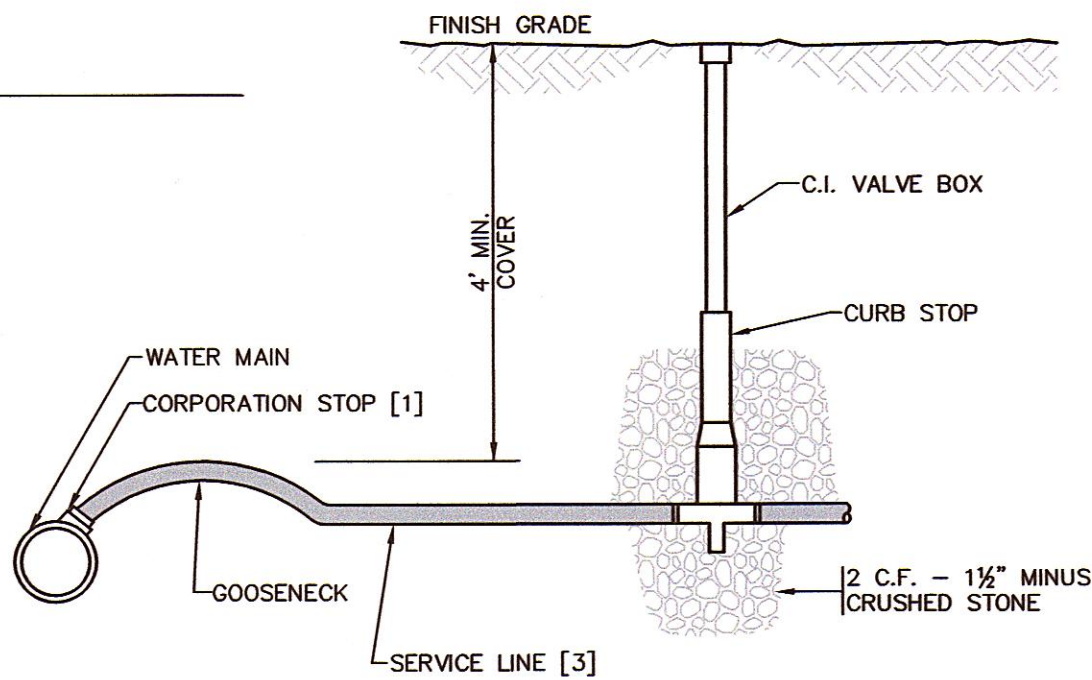
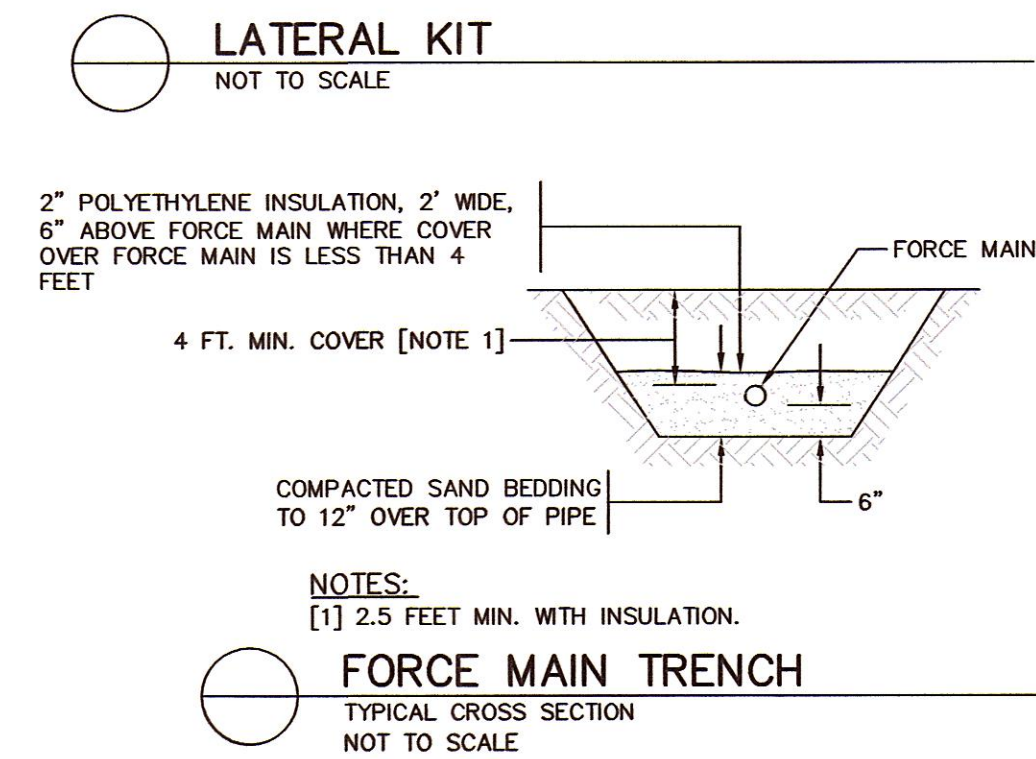
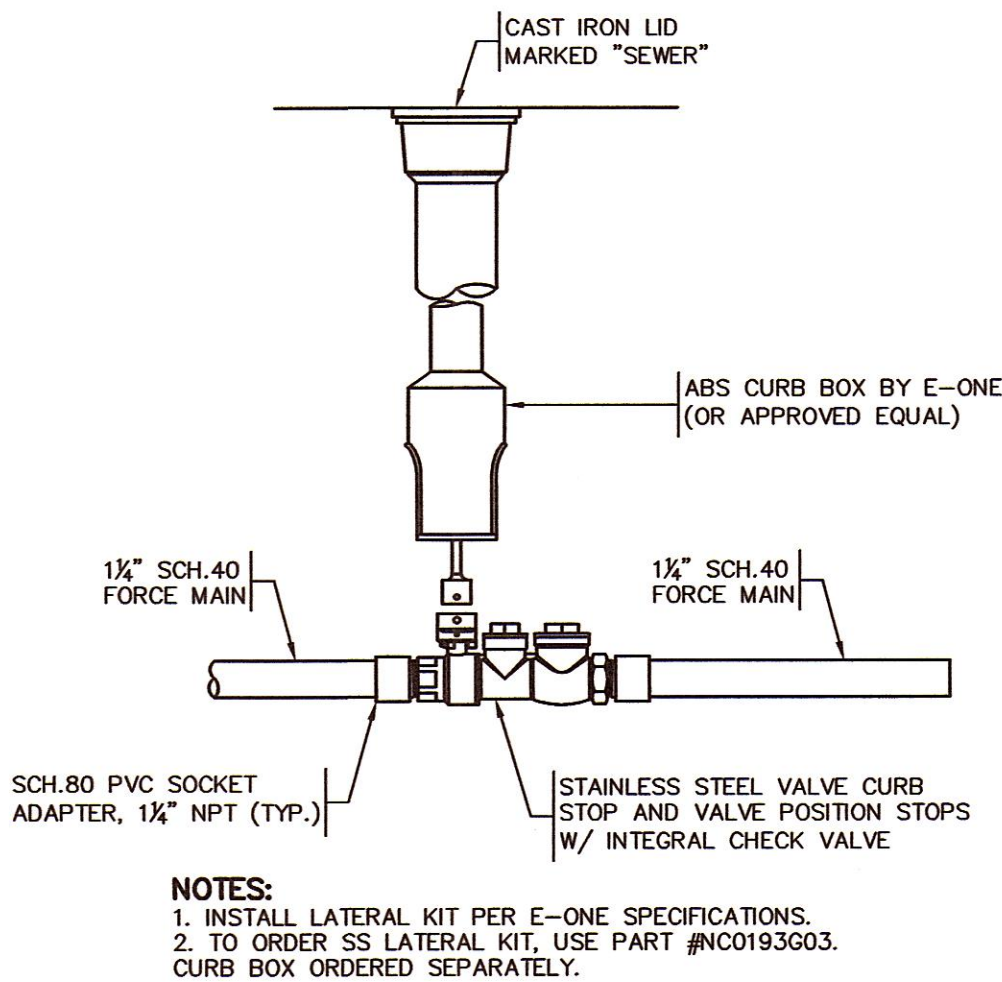
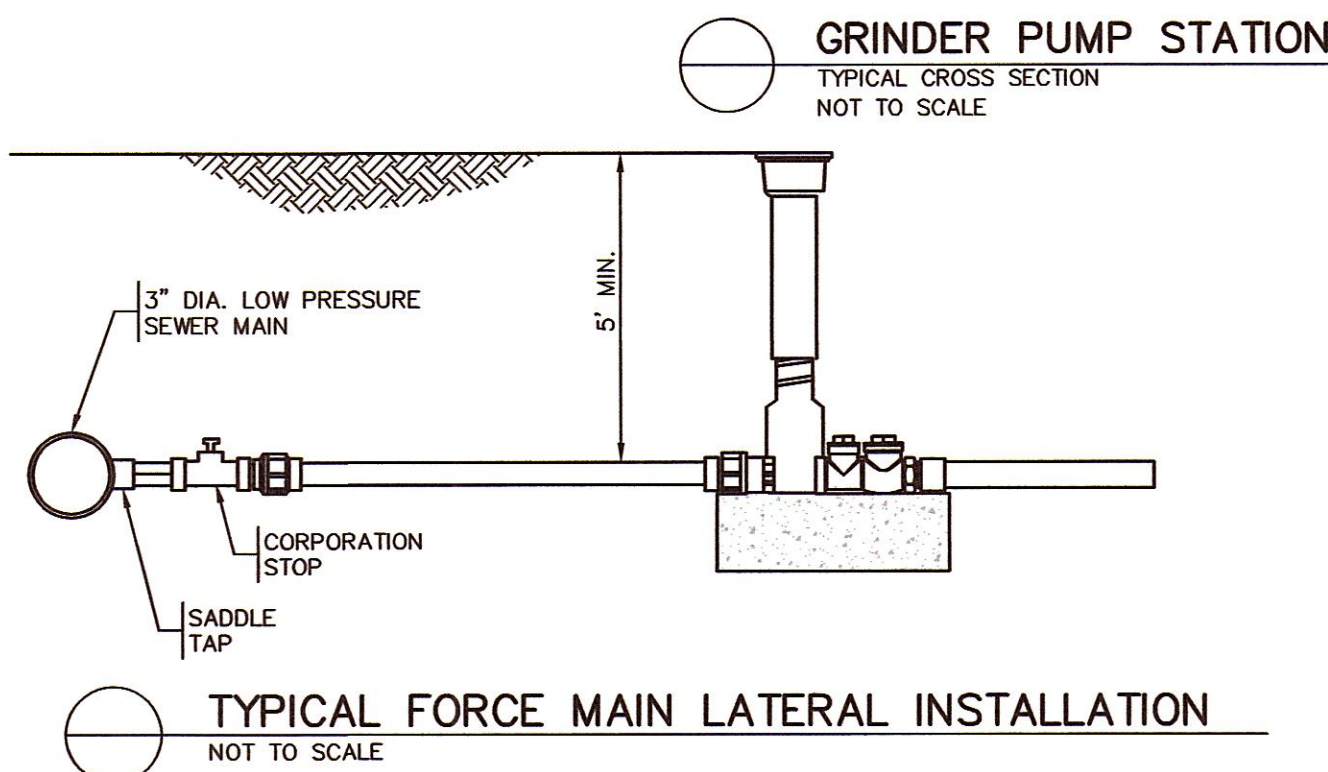
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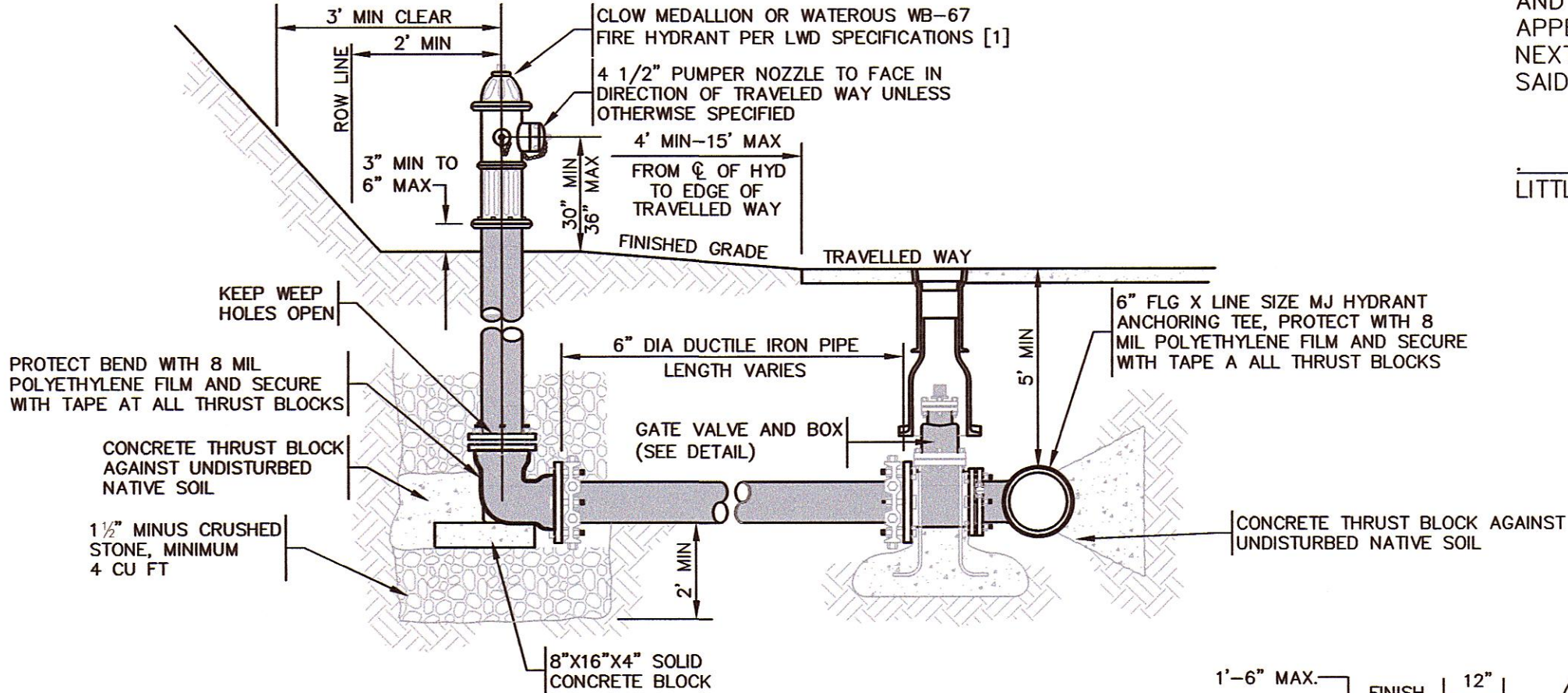
NOTES:

- [1] CONCRETE PIPE ENCASEMENT TO EXTEND 10 FT ALONG SEWER LINE AND WATER LINE FROM POINT OF INTERSECTION.
- [2] DISTANCE EQUAL TO PIPE DIAMETER.
- [3] CONCRETE PIPE ENCASEMENT REQUIRED WHENEVER PROPOSED SEWER MAIN/LATERAL IS WITHIN 10' OF PROPOSED WATER MAIN/SERVICE.



NOTES:

- [1] WATER SERVICES LARGER THAN 1" ARE TO BE RESTRAINED TO MAIN WITH APPROVED SADDLE.
- [2] COORDINATE BUILDING CONNECTION WITH PLUMBING DRAWINGS.
- [3] ALL MATERIALS PER MUNICIPAL STANDARDS.

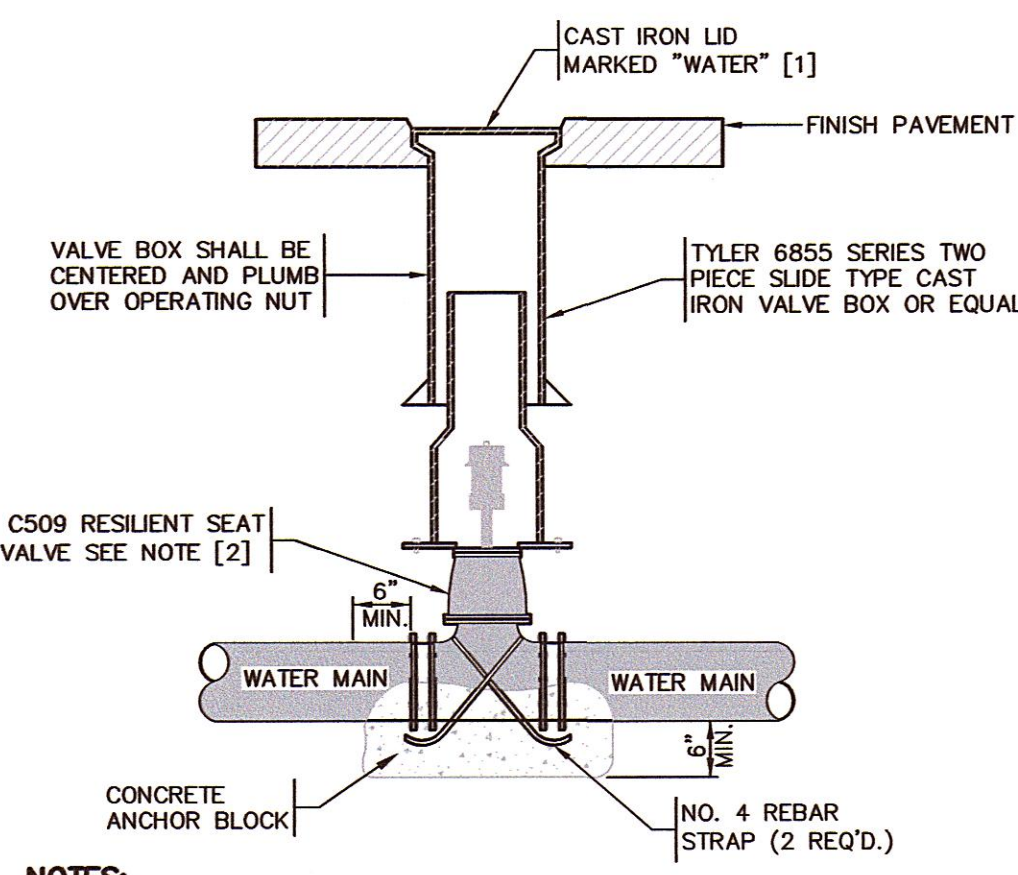
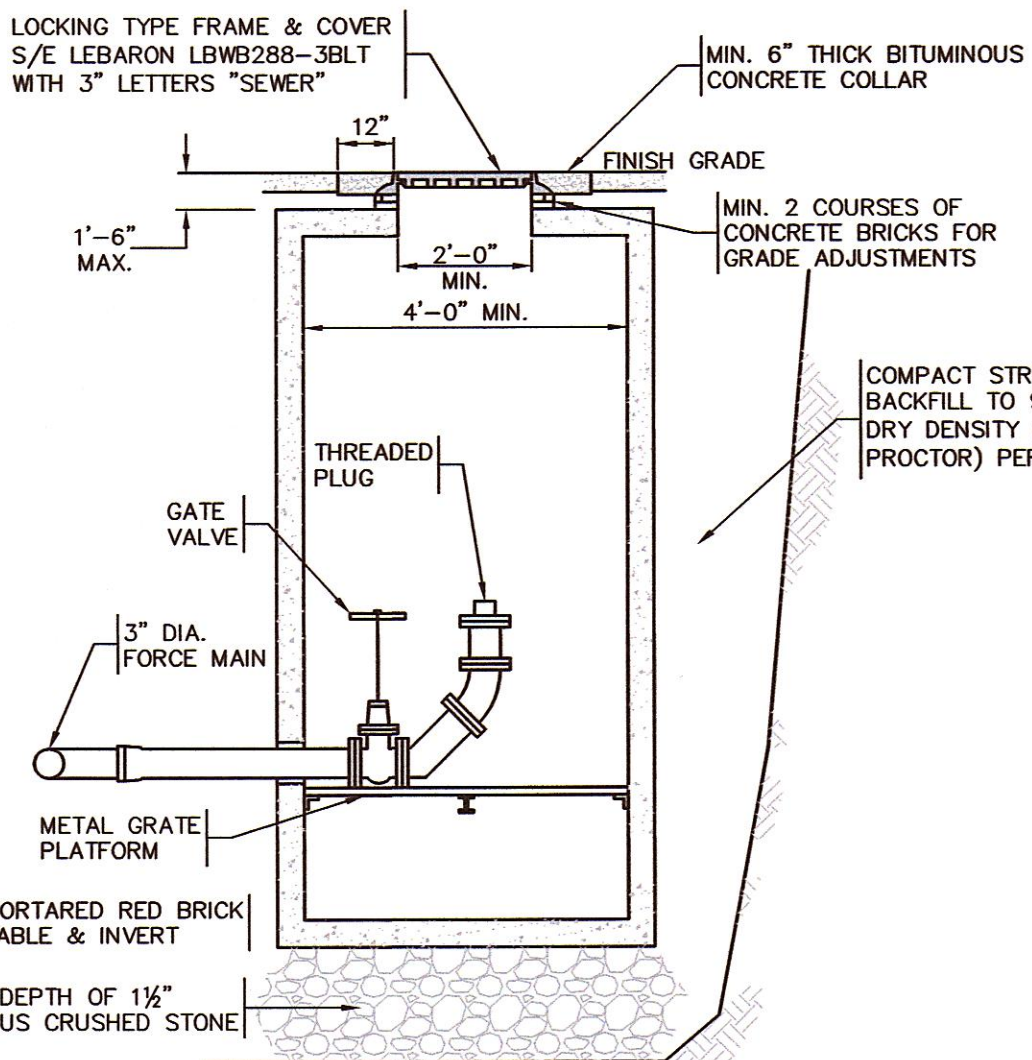


NOTES:

- [1] HYDRANT SHALL MEET ALL TOWN AND AWWA STANDARDS AND BE UL/FM APPROVED AND EQUIPPED WITH (1) 4 1/2" PUMPER NOZZLE AND (2) 2 1/2" HOSE NOZZLES.
- [2] HYDRANT SHALL OPEN IN DIRECTION AS SPECIFIED BY THE LOCAL FIRE DEPARTMENT.
- [3] WHERE HYDRANT IS SHOWN BEHIND SIDEWALK, SET CENTER OF HYDRANT 2-FEET BEHIND SIDEWALK.

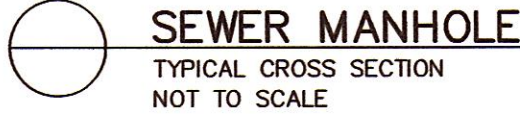
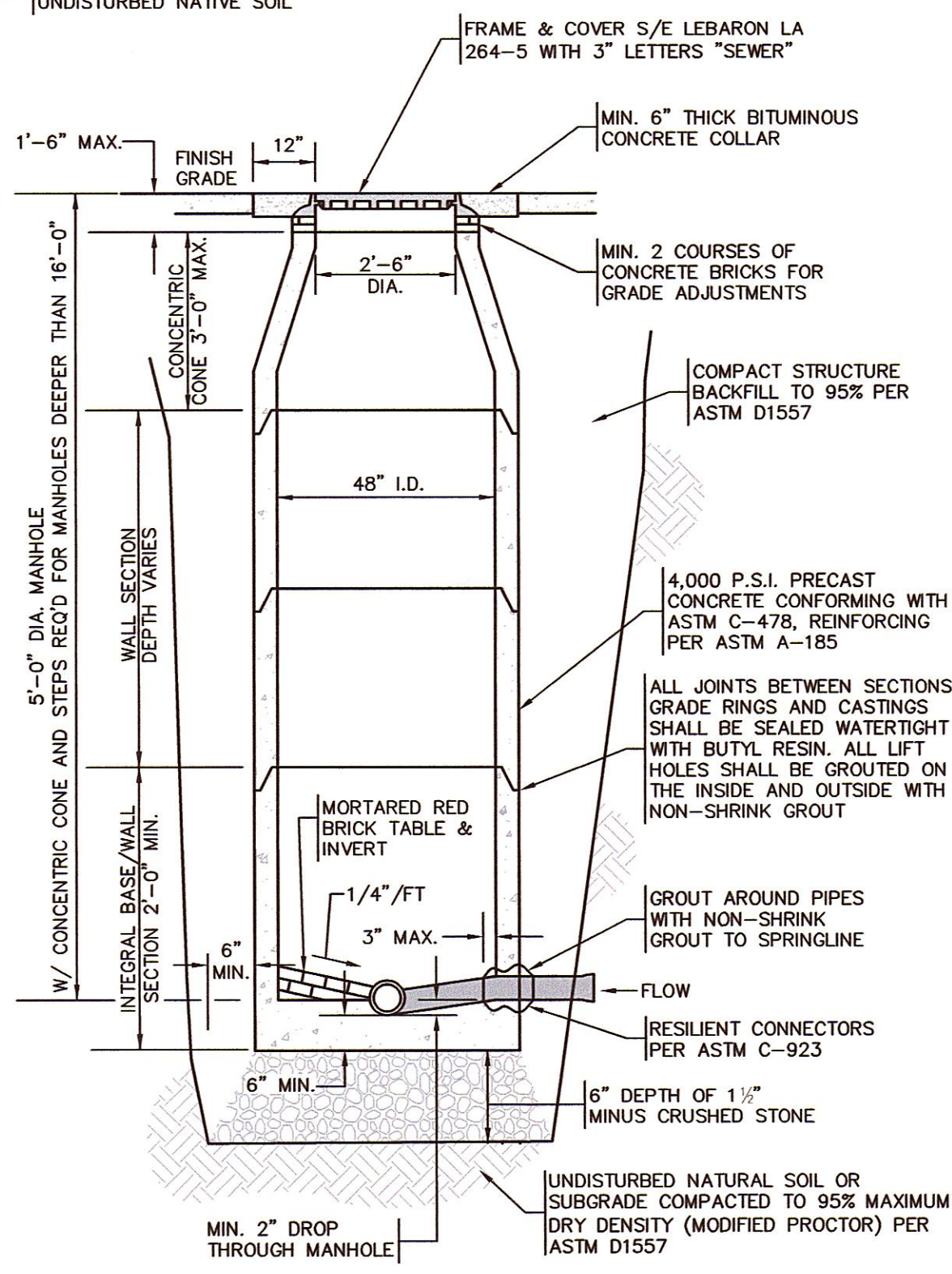
FIRE HYDRANT ASSEMBLY

TYPICAL CROSS SECTION
NOT TO SCALE



NOTES:

- [1] SET LID AND CONCRETE COLLAR 1/4" TO 1/2" BELOW GRADE IN PAVEMENT OR OTHER AREAS TO BE PLOWED. SET LID 3" ABOVE FINISHED GRADE ELSEWHERE.
- [2] VALVE SHALL OPEN IN DIRECTION AS SPECIFIED BY THE LOCAL WATER DEPARTMENT.



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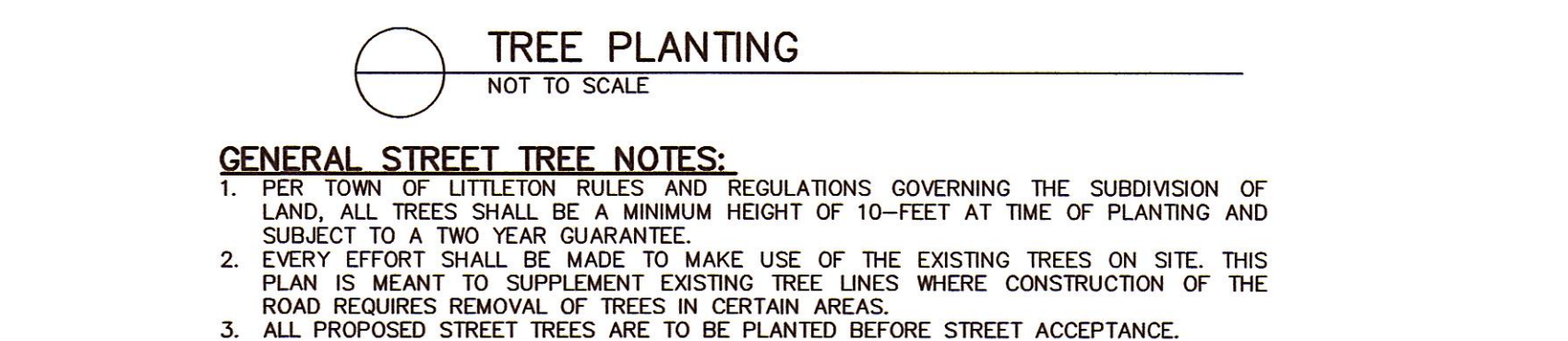
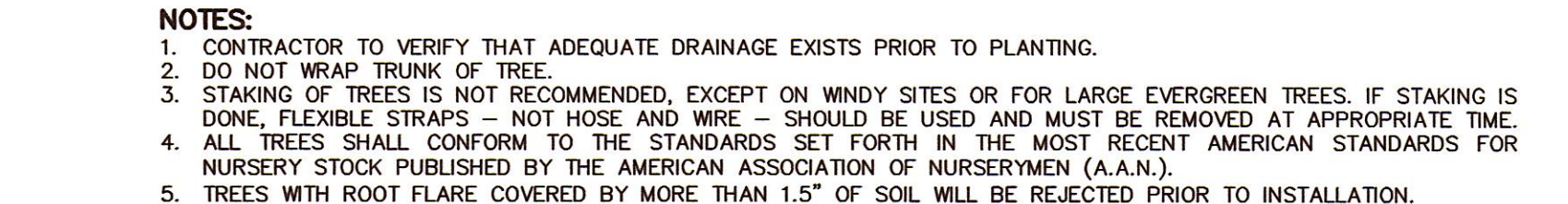
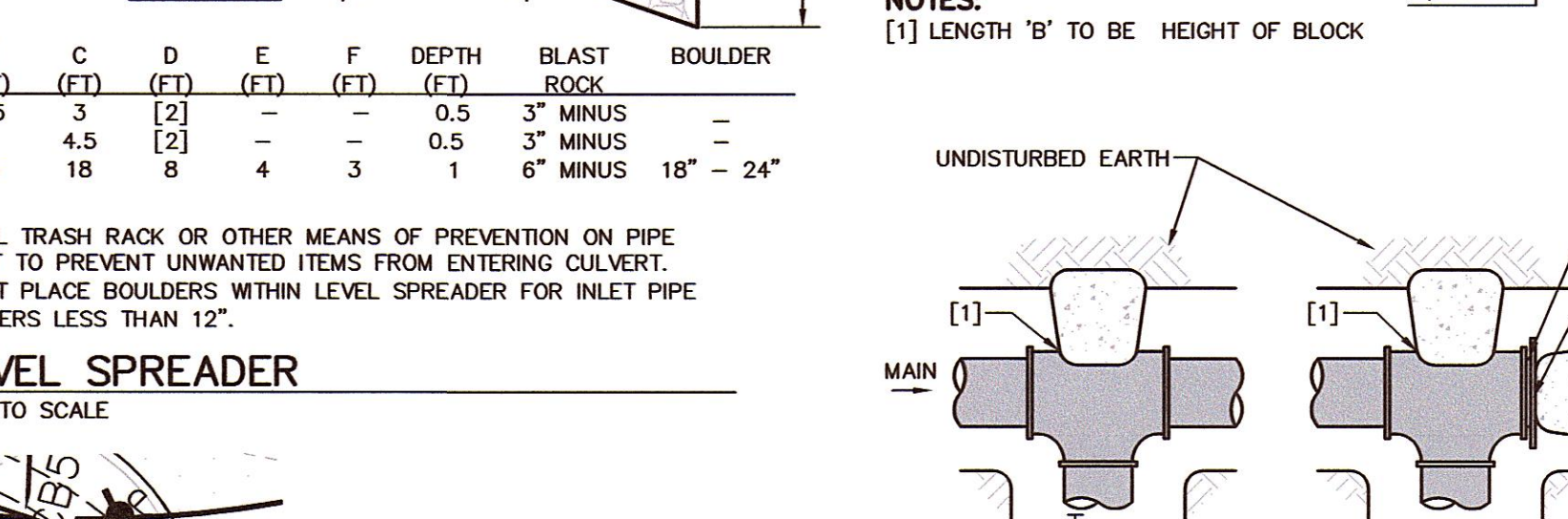
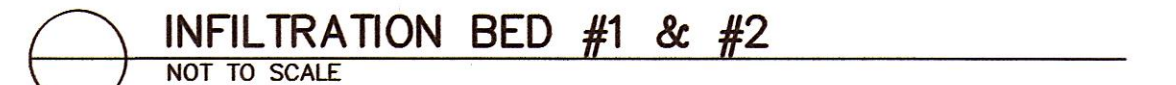
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OPEN SPACE DEVELOPMENT**

CONSTRUCTION DETAILS

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LITTLETON, MA**

PREPARED FOR:
GLAVEY FAMILY TRUST
P.O. BOX 381
LITTLETON, MA 01460

DES. BY: MCL DATE: AUGUST 2019 JOB 171088 C9.2
CHK. BY: NMP



[2] FOR TEE PROVIDE THRUST BLOCKING FOR BRANCH SIZE
[3] THIS TABLE IS BASED ON 200 P.S.I. MAIN PRESSURE AND 2000 P.S.F. SOIL BEARING PRESSURE. ADJUST BEARING AREAS IN ACCORDANCE WITH SOIL CONDITIONS AND PRESSURES ENCOUNTERED.
[4] WRAP PIPE IN 8 MIL POLYETHYLENE FILM AND SECURE WITH TAPE AT ALL THRUST BLOCKS.
[5] CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 2500 P.S.I. AT 28 DAYS.
[6] BLOCKING SIZE/FREQUENCY SHALL BE INCREASED IF REQUIRED BY ENGINEER.



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_____ CHAIR

_____ APPLICATION FILED _____

_____ HEARING DATE _____

_____ PLAN APPROVED _____

