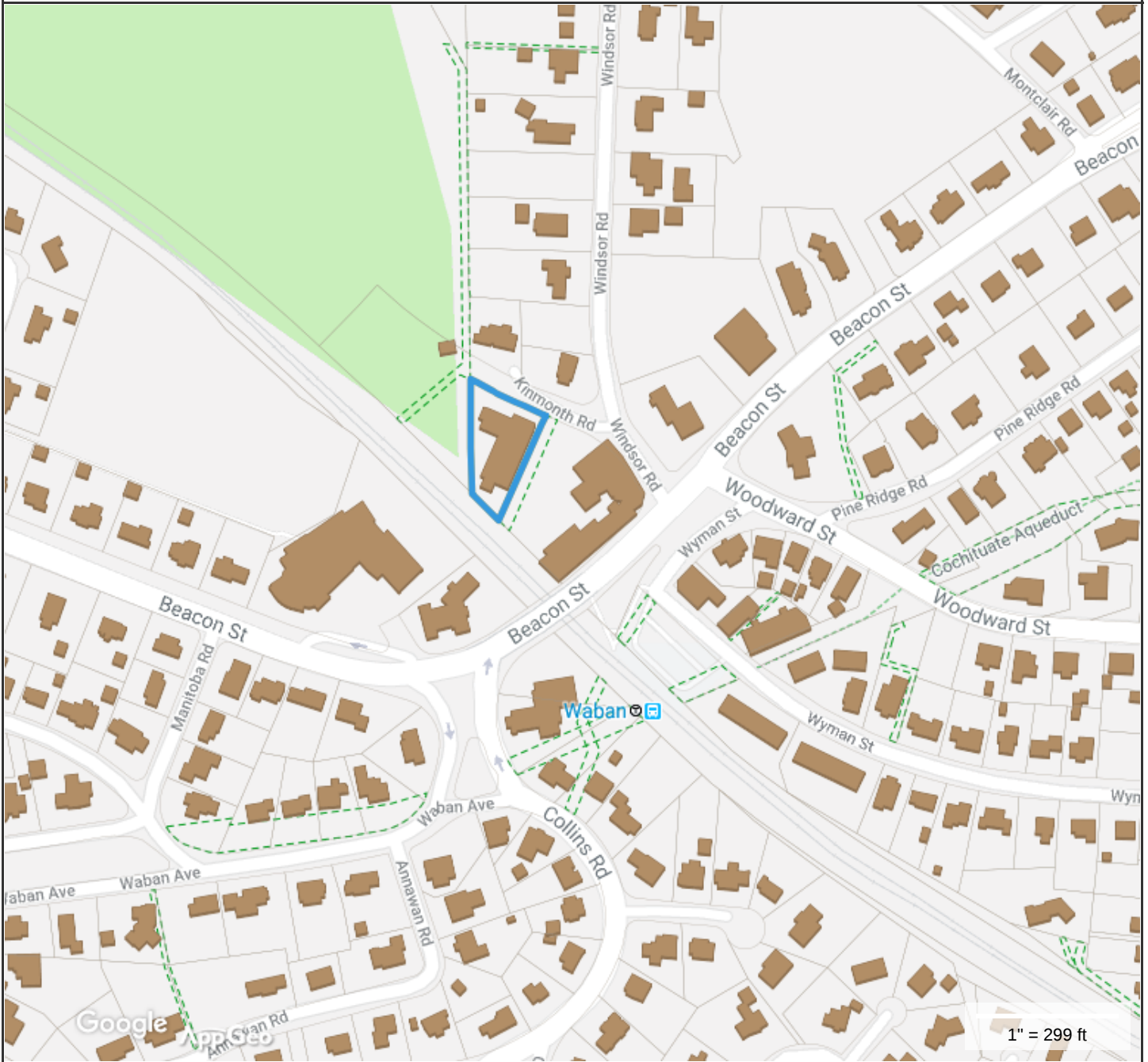


20 Kinmonth Road



Property Information

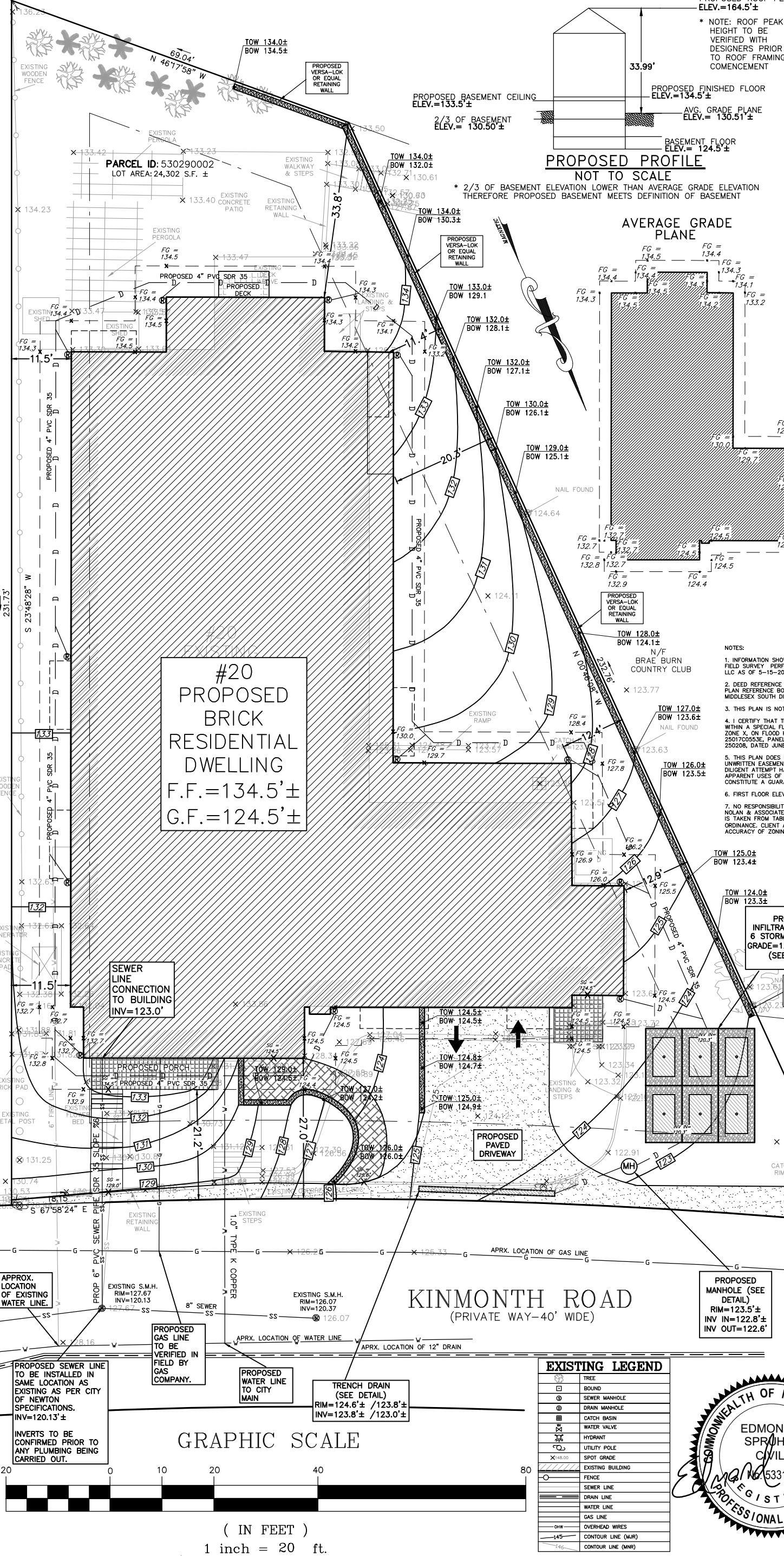
Property ID 53029 0002
Location 20 KINMONTH RD
Owner KINMONTH RD INVESTMENT LLC



**MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT**

City of Newton, MA makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated 11/09/2018
Data updated 11/14/2018

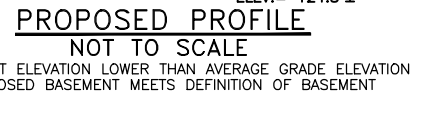


ZONING LEGEND

ZONING DISTRICT: BU1

	REQUIRED	EXISTING	PROPOSED
MIN. AREA	10,000 S.F.	24,302 S.F. ± (MEASURED)	24,302 S.F. ± (MEASURED)
MIN. FRONTAGE	-	161.97'	161.97'
MIN. YARD FRONT	-	27.4'	21.2'
SIDE	*16.99'	11.6'	11.4'
REAR	*16.99'	34.0'	33.8'
MAX. BLDG. HEIGHT	36'	33'±	33.99'±

*HALF BUILDING HEIGHT 16.99'



AVERAGE GRADE CALCULATION

AVERAGE GRADE PLANE (ALL UNITS IN FEET)

SEGMENT	LENGTH	POINT 1	POINT 2	MEAN 1 & 2	MEAN X LENGTH
1	30.40	134.50	134.40	134.45	4,087.28
2	10.40	134.30	134.20	134.25	1,396.20
3	13.30	134.30	134.10	134.20	1,784.86
4	79.00	133.20	129.70	131.45	10,384.55
5	34.30	130.00	128.40	129.20	4,431.56
6	23.50	127.80	126.00	126.90	2,982.15
7	10.00	126.90	126.20	126.55	1,265.50
8	21.10	125.50	124.50	125.00	2,637.50
9	9.90	124.50	124.50	124.50	1,232.55
10	51.50	124.50	124.50	124.50	6,411.75
11	9.80	124.50	124.50	124.50	1,220.10
12	42.50	124.00	132.90	128.45	5,459.13
13	9.80	132.80	132.70	132.75	1,300.95
14	2.50	132.70	132.70	132.70	331.75
15	126.00	132.70	134.30	133.50	16,821.00
16	18.30	134.40	134.50	134.45	2,460.44
17	10.50	134.50	134.40	134.45	1,411.73
SUM=	502.80				65,618.99
SUM OF MEAN X LENGTH / SUM OF LENGTHS = AVERAGE GRADE PLANE = 130.51					

LEGEND

○	UTILITY POLE	SG	SPOT GRADE
□	WATER GATE	TH#	DEEP TEST HOLE
⊙	HYDRANT	PH#	PERCOLATION TEST
⊕	GAS GATE	71.4 X	SPOT ELEVATION
⊖	SEWER MANHOLE	— [] —	PROPOSED CONTOUR
⊗	DRAIN MANHOLE	— [] —	EXISTING CONTOUR
⊘	CATCH BASIN	— [] —	DRAIN LINE
○	TREE	— [] —	WATER LINE
○	LIGHT POLE	— [] —	SEWER LINE
— [] —	SIGN	— [] —	GAS LINE
— [] —	TBR TO BE REMOVED	— [] —	FENCE
— [] —	TBA TO BE ABANDONED		
— [] —	TOW TOP OF WALL		
— [] —	TOW BOTTOM OF WALL		
— [] —	FG FINISHED GRADE		

- ### NOTES
- INFORMATION SHOWN ON THIS PLAN IS THE RESULT OF A FIELD SURVEY PERFORMED BY PETER NOLAN & ASSOCIATES LLC AS OF 5-15-2019.
 - DEED REFERENCE BOOK 63346 PAGE 384 PLAN REFERENCE BOOK 9433 PAGE 372 MIDDLESEX SOUTH DISTRICT REGISTRY OF DEEDS.
 - THIS PLAN IS NOT INTENDED TO BE RECORDED.
 - I CERTIFY THAT THE DWELLING SHOWN IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD ZONE. IT IS LOCATED IN ZONE X, ON FLOOD HAZARD BOUNDARY MAP NUMBER 250170553E, PANEL NUMBER 0553E, COMMUNITY NUMBER: 250208, DATED JUNE 4, 2010.
 - THIS PLAN DOES NOT SHOW ANY UNRECORDED OR UNWRITTEN EASEMENTS WHICH MAY EXIST. A REASONABLE AND DILIGENT ATTEMPT HAS BEEN MADE TO OBSERVE ANY APPARENT USES OF THE LAND; HOWEVER THIS NOT CONSTITUTE A GUARANTEE THAN NO SUCH EASEMENTS EXIST.
 - FIRST FLOOR ELEVATIONS ARE TAKEN AT THRESHOLD.
 - NO RESPONSIBILITY IS TAKEN FOR ZONING TABLE AS PETER NOLAN & ASSOCIATES LLC ARE NOT ZONING EXPERTS. TABLE IS TAKEN FROM TABLE PROVIDED BY LOCAL ZONING ORDINANCE. CLIENT AND/OR ARCHITECT TO VERIFY THE ACCURACY OF ZONING ANALYSIS.

- ### NOTES
- ELEVATIONS REFER TO CITY OF NEWTON DATUM.
 - THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES SHALL BE CONSIDERED APPROPRIATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ANY CROSSINGS OF PROPOSED AND EXISTING UTILITIES.
 - MASSACHUSETTS STATE LAW REQUIRES UTILITY NOTIFICATION AT LEAST THREE BUSINESS DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CALL DIG-SAFE AT 1-888-344-7433 IN ORDER TO COMPLY WITH STATE LAW.
 - ALL UTILITY CONSTRUCTION SHALL CONFORM TO THE CITY OF NEWTON GENERAL CONSTRUCTION DETAILS, LATEST EDITION, PREPARED AND ISSUED BY THE NEWTON ENGINEERING DEPARTMENT. COPIES MAY BE OBTAINED AT THE OFFICE OF THE CITY ENGINEER. REFER TO NOTE 29 FOR DETAILS. NOTE: A TRENCH PERMIT MUST BE OBTAINED PRIOR TO ANY EXCAVATION BEING CARRIED OUT.
 - PROPOSED SEWER PIPE SHALL BE 6" PVC SDR 35.
 - PROPOSED WATER SERVICE SHALL BE 1" TYPE K COPPER.
 - THIS PLAN IS THE RESULT OF AN INSTRUMENT SURVEY DONE ON THE GROUND APRIL 30, 2019.
 - ALL WORK SHALL BE SUBJECT TO THE INSPECTION BY AND APPROVAL OF THE CITY ENGINEER.
 - NO EXCAVATION SHALL BE MADE BY THE CONTRACTOR IN ANY PUBLIC WAY OR UTILITY EASEMENT UNLESS AT LEAST FORTY-EIGHT (48) HOURS EXCLUSIVE OF SATURDAYS, SUNDAYS, AND HOLIDAYS, BEFORE THE PROPOSED EXCAVATION IS TO BE MADE. THIS SHALL BE SUBMITTED VIA PHONE CALL OR IN PERSON. NOTICE OF THE PROPOSED EXCAVATION TO THE FOLLOWING:
 - SUCH PUBLIC UTILITY COMPANIES AS SUPPLY GAS, ELECTRICITY, AND TELEPHONE SERVICE TO THE CITY.
 - SUCH PRIVATE COMPANIES AS PROVIDE CABLE TELEVISION SERVICE IN THE CITY.
 - CITY OF NEWTON WATER & SEWER DEPARTMENT. SUCH NOTICE SHALL SET FORTH THE STREET NAME AND A REASONABLY ACCURATE DESCRIPTION OF THE LOCATION OF THE EXCAVATION.
 - THE CONTRACTOR SHALL PROVIDE CITY OF NEWTON POLICE OFFICERS FOR THE DIRECTION AND CONTROL OF TRAFFIC, AS REQUIRED BY THE CITY ENGINEER.
 - NO WORK SHALL BE PERFORMED UNTIL THE NECESSARY PERMITS ARE OBTAINED FROM THE CITY OF NEWTON PUBLIC WORKS DEPARTMENT.
 - PAVEMENT THICKNESS FOR ALL TEMPORARY TRENCHES WITHIN A CITY RIGHT-OF-WAY MUST MATCH THE EXISTING DEPTH OF ASPHALT ON THE ROADWAY.
 - WARNING SIGNS SHALL CONFORM TO PAGE 12 OF THE CITY OF NEWTON GENERAL CONSTRUCTION DETAILS.
 - ALL TOPSOIL, SUBSOIL OR IMPROVISED SOIL MUST BE EXCAVATED AND REMOVED FROM THE LEADLINE AND APPROXIMATE TO A DISTANCE OF LATERALLY IN ALL DIRECTIONS BEYOND THE SIDES OF THE GALLEYS, BACKFILL AS REQUIRED WITH A CLEAN GRANULAR FREE FROM ORGANIC MATTER AND DISTURBED AREAS. SUBSTANCES, THE SAND SHALL HAVE A PERCOLATION RATE OF 2 MINUTES PER INCH OF PASTURE.
 - IN CASES WHERE LEGGE OR BOLLERS ARE ENCOUNTERED, SPRUHAN ENGINEERING, P.C. WILL NOT BE RESPONSIBLE FOR THE AMOUNT OF ROCK ENCOUNTERED.
 - IF ANY PART OF THIS DESIGN IS TO BE ALTERED IN ANY WAY, THE DESIGN AND/OR CONSTRUCTION SHALL BE AS APPROVED ALTHOUGH NOTIFIED IN WRITING BEFORE CONSTRUCTION.
 - THE ROOF RUNOFF FROM THE ROOF SURFACES SHALL BE COLLECTED BY GUTTERS AND DIRECTED TO THE STORM WATER DRAINAGE SYSTEM.
 - PRIOR TO AN OCCUPANCY PERMIT BEING ISSUED, AN AS-BUILT PLAN SHALL BE SUBMITTED TO THE ENGINEERING DIVISION IN BOTH DIGITAL FORMAT AND HARD COPY. THE PLAN SHOULD INCLUDE ALL UTILITIES, CONNECTION POINTS AT MAINS, STRUCTURE ACCESS/MAINTENANCE COVERS, ANY EASEMENTS AND FINAL GRADING.
 - THE APPLICANT WILL HAVE TO APPROVE A STREET ORDER & UTILITIES DEPARTMENT PERMITS AS WELL AS A SIDEWALK CROSSING PERMIT AND A TRENCH PERMIT WITH THE DPW.
 - THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE DESIGN ENGINEER FOR ALL AS-BUILT CERTIFICATION TO UNSPECIFIED BACKFILLED UTILITIES. HE WILL NOT PROVIDE AS-BUILT CERTIFICATION TO UNSPECIFIED BACKFILLED UTILITIES. A TRENCH PERMIT SHALL BE OBTAINED PRIOR TO ANY CONSTRUCTION.
 - ANY PROPOSED PVC PIPES UNDER PAVING OR CONCRETE WITH LESS THAN 30" OF COVER MUST BE ENCASED IN CONCRETE. (SEE PAGE 21, CITY OF NEWTON GENERAL CONSTRUCTION DETAILS).
 - THE EXISTING WATER & SEWER SERVICES SHALL BE CUT AND CAPPED AT THE MAIN AND BE COMPLETELY REMOVED FROM SITE. ALL EXISTING WATER, WATER & SEWER SERVICES INSPECTED. THE SYSTEM & UTILITIES MUST BE FULLY INSPECTED AND PROPERLY BACKFILLED. THE ENGINEERING DIVISION MUST INSPECT THIS WORK. FAILURE TO HAVE THIS WORK INSPECTED MAY RESULT IN THE DELAY OF ISSUANCE OF THE UTILITY CONNECTION PERMIT.
 - THE CONTRACTOR SHALL NOTIFY THE ENGINEERING DIVISION 48 HOURS IN ADVANCE AND SCHEDULE AN APPOINTMENT TO HAVE THE DRAINAGE SYSTEM, WATER & SEWER SERVICES INSPECTED. THE SYSTEM & UTILITIES MUST BE FULLY INSPECTED FOR THE INSPECTOR. ONCE THE INSPECTOR IS SATISFIED, THE SYSTEM & UTILITIES MAY THEN BE BACKFILLED.
 - THE EXISTING CONTOURS OF THE LAND ARE NOT TO BE ALTERED BY MORE THAN THREE (3) FEET AS A RESULT OF THE PLACEMENT OR REMOVAL OF SOIL, SAND, CLAY, GRAVEL OR STONE, OR OTHER MATERIAL. ANY SOIL WORK AND PROPOSED RETAINING WALL OR SHALE IS INSTALLED AFTER IT IS APPROVED BY BOTH CITY OF NEWTON ENGINEERING DEPARTMENT & CITY OF NEWTON.
 - IF A CERTIFICATE OF OCCUPANCY IS REQUESTED PRIOR TO ALL SITE WORK BEING COMPLETED, THE APPLICANT WILL BE REQUIRED TO POST A CERTIFIED BANK GUARANTEE IN THE AMOUNT TO COVER THE REMAINING WORK. THE CITY ENGINEER SHALL DETERMINE THE VALUE OF THE UNCOMPLETED WORK.
 - NO WORK IS ALLOWED WITHIN A CITY OF NEWTON RIGHT-OF-WAY BETWEEN NOVEMBER 15TH AND APRIL 15TH, IF AN EMERGENCY EXISTS OR THERE ARE EXTENUATING CIRCUMSTANCES, APPLICANT MAY REQUEST PERMISSION FROM THE CITY ENGINEER. IF ALLOWED, SPECIAL CONSTRUCTION REQUIREMENTS WILL BE REQUIRED, AND AS SUCH IT IS RECOMMENDED THAT THE APPLICANT OR APPLICANT'S REPRESENTATIVE CONTACT THE CITY OF NEWTON ENGINEERING DEPARTMENT PRIOR TO START OF WORK FOR CLARIFICATION.
 - AT THE END OF CONSTRUCTION, ALL DRAINAGE STRUCTURES ARE TO BE CLEANED OF SILT, STONES AND OTHER DEBRIS. 28. DURING CONSTRUCTION, THE EROSION CONTROL MEASURES SHALL BE CLEANED ONLY PER WEEK AND WITHIN 24 HOURS OF ANY STORM EVENT GENERATING MORE THAN 1/2" OF RAINFALL. THE EROSION CONTROL MEASURES SHALL BE CLEANED REGULARLY AND ADJUSTED IF NECESSARY TO ENSURE THAT NO SILT OR DEBRIS LEAVES THE SITE.
 - WITH EXCEPTION OF GAS UTILITY SERVICES, ALL UTILITY TRENCHES WITHIN ANY EXCAVATION SHALL BE BACKFILLED WITH A CONTROLLED DENSITY FILL, AS SPECIFIED BY THE CITY OF NEWTON ENGINEERING SPECIFICATIONS.
 - ALL CONSTRUCTION ACTIVITIES WITHIN THE CITY OF NEWTON RIGHT-OF-WAY MUST FULLY COMPLY WITH ALL OF CITY OF NEWTON CONSTRUCTION SPECIFICATIONS AS WELL AS 521 CMR 21.00 AND 22.00.
 - THE NEW SEWER SERVICE LINE MUST BE PRESSURE TESTED PRIOR TO USE. THE RESULT OF THE TEST MUST BE PROVIDED TO THE ENGINEERING DIVISION. PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, THE CONTRACTOR NEEDS TO NOTIFY THE ENGINEERING DIVISION 48 HOURS IN ADVANCE AND SCHEDULE AN APPOINTMENT TO HAVE THE PRESSURE TEST WITNESSED BY A CITY OF NEWTON ENGINEERING DEPARTMENT REPRESENTATIVE.
 - THE CONTRACTOR NEEDS TO NOTIFY THE ENGINEERING DIVISION 48 HOURS IN ADVANCE AND SCHEDULE AN APPOINTMENT TO HAVE THE DRAINAGE SYSTEM INSPECTED. THE SYSTEM MUST BE FULLY EXPOSED FOR THE INSPECTOR. ONCE THE INSPECTOR IS SATISFIED, THE SYSTEM MAY THEN BE CONSTRUCTED. 33. ALL SITUATION CONTROL NEEDS TO BE INSTALLED PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL CONTACT THE CITY ENGINEER'S OFFICE FOR APPROVAL PRIOR TO COMMENCEMENT.
 - ALL TRENCH EXCAVATION CONTRACTORS SHALL COMPLY WITH MGL CHAPTER 82A, TRENCH EXCAVATION SAFETY REQUIREMENTS TO PROTECT THE GENERAL PUBLIC FROM UNAUTHORIZED ACCESS TO UNATTENDED TRENCHES. A TRENCH EXCAVATION PERMIT IS REQUIRED.
 - APPROVAL OF THIS PLAN BY CITY OF NEWTON ENGINEERING DIVISION IMPLIES THAT THE PLAN MEETS THE MINIMUM DESIGN STANDARDS OF THE CITY OF NEWTON. HOWEVER, THE ENGINEERING DIVISION MAKES NO REPRESENTATION OR ASSUMES NO RESPONSIBILITY FOR THE DESIGN OR THE CONSTRUCTION OF THE PARTICULAR SITE CONDITIONS OR OF THE FUNCTIONALITY OR PERFORMANCE OF ANY ITEMS CONSTRUCTED IN ACCORDANCE WITH THE DESIGN. THE CITY OF NEWTON ASSUMES NO LIABILITIES FOR DESIGN ASSUMPTION, ERRORS OR OMISSIONS BY THE ENGINEER OF RECORD.

REVISION BLOCK

BY	DESCRIPTION	DATE

SCALE: 1"=20'
 DATE: 8/16/19
 DRAWN BY: PS
 CHECKED BY: PN
 APPROVED BY: ES
 SHEET: 1
 PLAN NO.: 1 OF 3
 CLIENT:
 SHEET: **1**

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**20 KINMOUTH STREET,
 WABAN,
 MASSACHUSETTS**

**PROPOSED CIVIL
 PLANS**

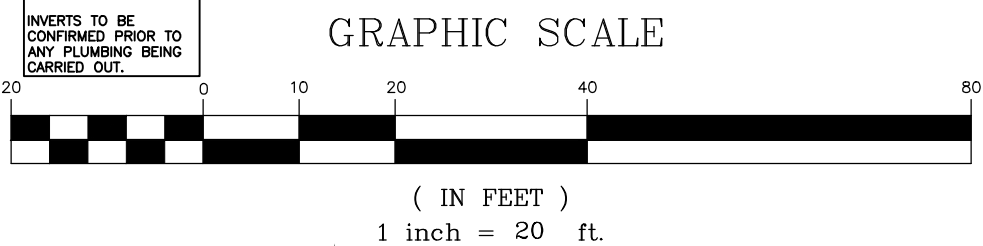
EDMOND J. SPRUHAN
 CIVIL
 No. 53316
 REGISTERED PROFESSIONAL ENGINEER
 COMMONWEALTH OF MASSACHUSETTS

SPRUHAN ENGINEERING, P.C.

80 JEWETT ST. (SUITE 1) NEWTON, MA 02458
 Tel: 617-816-0722
 Email: edmond@spruhaneng.com

EXISTING LEGEND

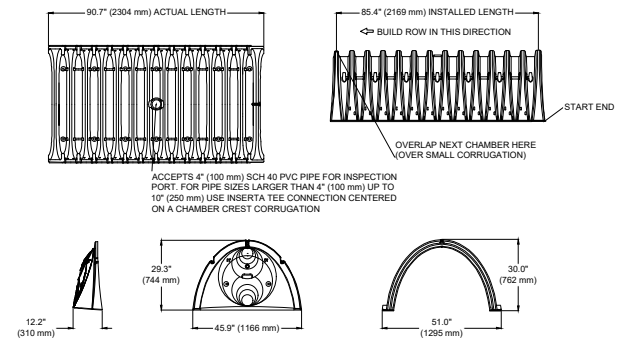
○	TREE
□	BOUND
⊙	SEWER MANHOLE
⊖	DRAIN MANHOLE
⊕	CATCH BASIN
⊗	WATER VALVE
⊘	HYDRANT
○	UTILITY POLE
○	SPOT GRADE
— [] —	EXISTING BUILDING
— [] —	FENCE
— [] —	SEWER LINE
— [] —	DRAIN LINE
— [] —	WATER LINE
— [] —	GAS LINE
— [] —	OVERHEAD WIRES
— [] —	CONTOUR LINE (MIR)
— [] —	CONTOUR LINE (MNR)



ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (457 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 90% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ¹

SC-740 TECHNICAL SPECIFICATION



NOMINAL CHAMBER SPECIFICATIONS
 SIZE (W X H X INSTALLED LENGTH) 51.0" X 30.0" X 85.4"
 CHAMBER STORAGE 45.9 CUBIC FEET (1.30 m³)
 MINIMUM INSTALLED STORAGE* 24.9 CUBIC FEET (0.70 m³)
 WEIGHT 75.0 lbs. (33.6 kg)

*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"

PART #	STUB	A	B	C
SC740EPE067 / SC740EPE067PC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	---
SC740EPE068 / SC740EPE068PC	---	---	---	0.5" (13 mm)
SC740EPE081 / SC740EPE081PC	8" (200 mm)	12.2" (310 mm)	16.5" (419 mm)	---
SC740EPE082 / SC740EPE082PC	---	---	---	0.6" (15 mm)
SC740EPE101 / SC740EPE101PC	10" (250 mm)	14.3" (340 mm)	14.5" (368 mm)	---
SC740EPE102 / SC740EPE102PC	---	---	---	0.7" (18 mm)
SC740EPE121 / SC740EPE121PC	12" (300 mm)	14.7" (373 mm)	12.5" (318 mm)	---
SC740EPE122 / SC740EPE122PC	---	---	---	1.2" (30 mm)
SC740EPE151 / SC740EPE151PC	15" (375 mm)	18.4" (467 mm)	9.0" (229 mm)	---
SC740EPE152 / SC740EPE152PC	---	---	---	1.3" (33 mm)
SC740EPE181 / SC740EPE181PC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	---
SC740EPE182 / SC740EPE182PC	---	---	---	1.6" (41 mm)
SC740EPE248*	24" (600 mm)	18.5" (470 mm)	---	0.1" (3 mm)

ALL STUBS, EXCEPT FOR THE SC740EPE248 ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-852-2694.

*FOR THE SC740EPE248 THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

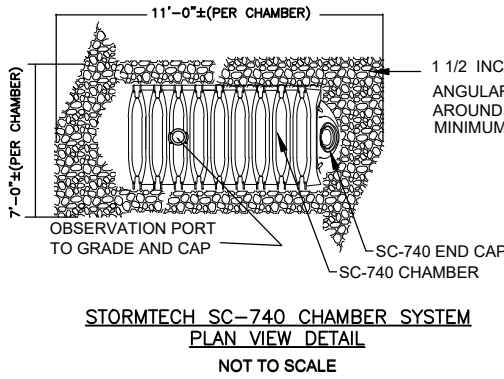
NOTE: ALL DIMENSIONS ARE NOMINAL

NOTES:

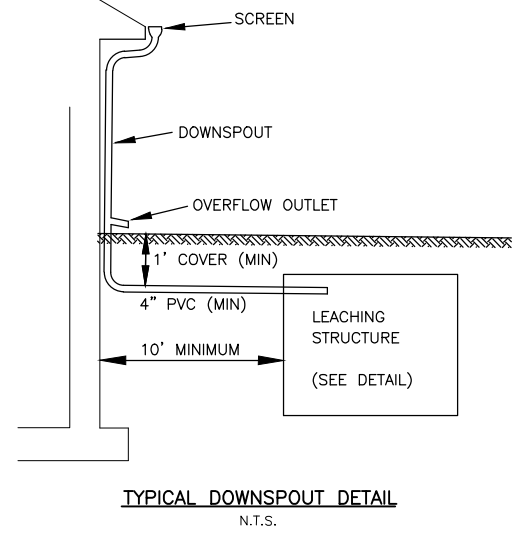
- SC-740 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE "SITE DESIGN ENGINEER" REFERS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN AND LAYOUT OF THE STORMTECH CHAMBERS FOR THIS PROJECT.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

STORMTECH GENERAL NOTES

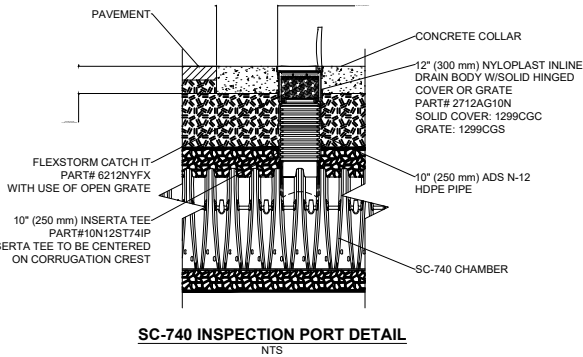
- STORMTECH LLC ("STORMTECH") REQUIRES INSTALLING CONTRACTORS TO USE AND UNDERSTAND STORMTECH'S LATEST INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING SYSTEM INSTALLATION.
- STORMTECH'S REQUIREMENTS FOR SYSTEMS WITH PAVEMENT DESIGN (ASPHALT, CONCRETE PAVERS, ETC.); MINIMUM COVER IS 18 INCHES NOT INCLUDING PAVEMENT; MAXIMUM COVER IS 96 INCHES INCLUDING PAVEMENT. FOR INSTALLATIONS THAT DO NOT INCLUDE PAVEMENT, WHERE RUTTING FROM VEHICLES MAY OCCUR, MINIMUM REQUIRED COVER IS 24 INCHES. MAXIMUM COVER IS 96 INCHES.
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE DESIGN ENGINEER.
- AASHTO M288 CLASS 2 NON-WOVEN GEOTEXTILE (FILTER FABRIC) MUST BE USED AS INDICATED IN THE PROJECT PLANS.
- STONE PLACEMENT BETWEEN CHAMBERS ROWS AND AROUND PERIMETER MUST FOLLOW INSTRUCTIONS AS INDICATED IN THE MOST CURRENT VERSION OF STORMTECH'S INSTALLATION INSTRUCTIONS.
- BACKFILLING OVER THE CHAMBERS MUST FOLLOW REQUIREMENTS AS INDICATED IN THE MOST CURRENT VERSION OF STORMTECH'S INSTALLATION INSTRUCTIONS.
- THE CONTRACTOR MUST REFER TO STORMTECH'S INSTALLATION INSTRUCTIONS FOR A TABLE OF ACCEPTABLE VEHICLE LOADS AT VARIOUS DEPTHS OF COVER. THIS INFORMATION IS ALSO AVAILABLE AT STORMTECH'S WEBSITE. CONTRACTOR IS RESPONSIBLE FOR PREVENTING VEHICLES THAT EXCEED STORMTECH'S REQUIREMENTS FROM TRAVELING ACROSS OR PARKING OVER THE STORMWATER SYSTEM. TEMPORARY FENCING, WARNING TAPE AND APPROPRIATELY LOCATED SIGNS ARE COMMONLY USED TO PREVENT UNAUTHORIZED VEHICLES FROM ENTERING SENSITIVE CONSTRUCTION AREAS.
- THE CONTRACTOR MUST APPLY EROSION AND SEDIMENT CONTROL MEASURES TO PROTECT THE STORMWATER SYSTEM DURING ALL PHASES OF SITE CONSTRUCTION PER LOCAL CODES AND DESIGN ENGINEER'S SPECIFICATIONS.



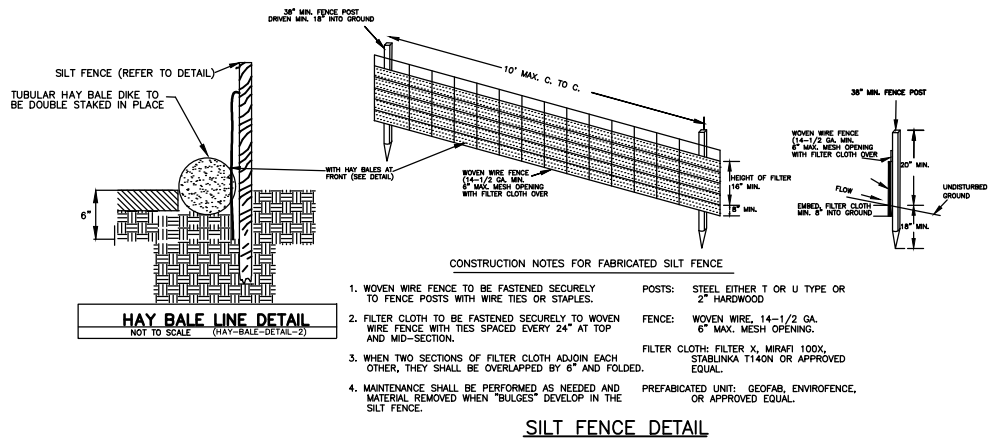
STORMTECH SC-740 CHAMBER SYSTEM PLAN VIEW DETAIL
NOT TO SCALE



TYPICAL DOWNSPOUT DETAIL
N.T.S.

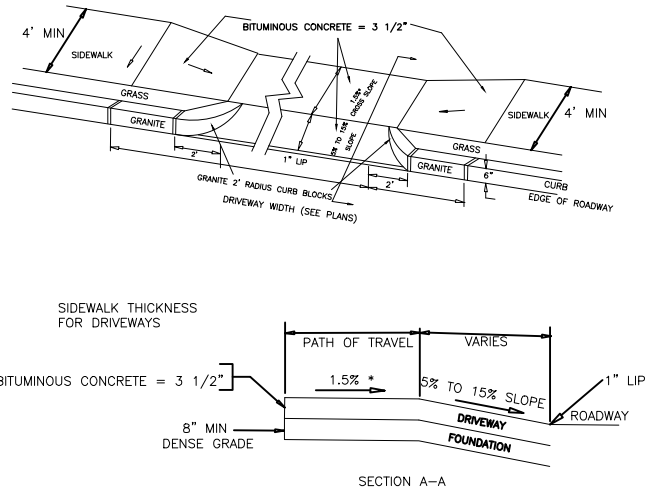


SC-740 INSPECTION PORT DETAIL
N.T.S.

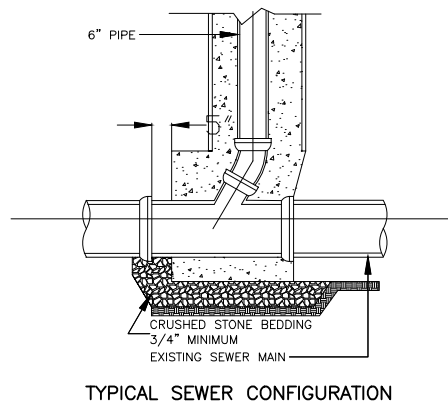


HAY BALE LINE DETAIL
NOT TO SCALE (HAY-BALE-DET-1-3)

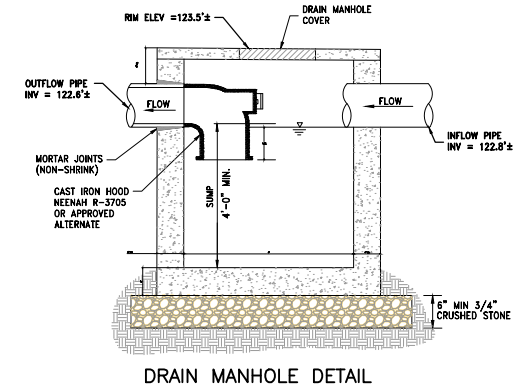
SILT FENCE DETAIL



DRIVEWAY APRON WITH CORNER BLOCKS



TYPICAL SEWER CONFIGURATION



DRAIN MANHOLE DETAIL

REVISION BLOCK

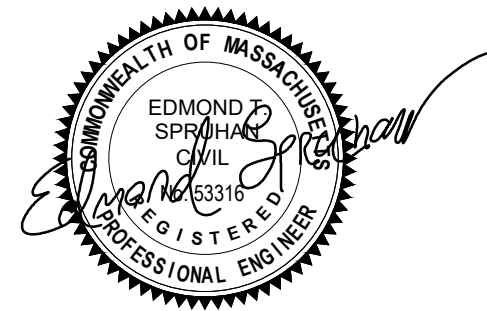
BY	DESCRIPTION	DATE

SCALE	DATE
	8/16/19
DRAWN BY	PS
CHECKED BY	PN
APPROVED BY	ES
SHEET	2
PLAN NO.	2 OF 3
CLIENT:	
SHEET:	2

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**20 KINMONTH STREET,
WABAN,
MASSACHUSETTS**

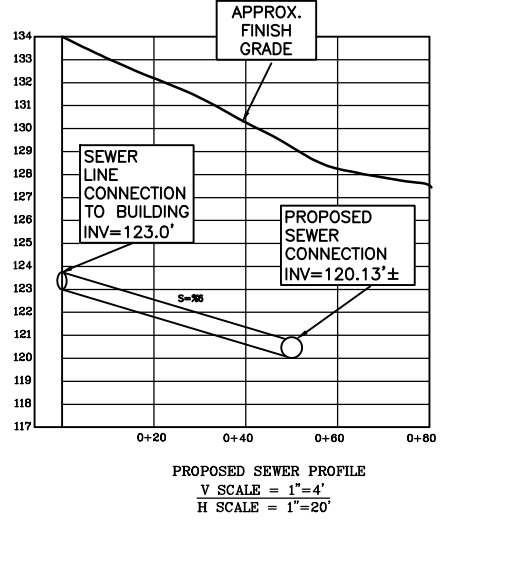
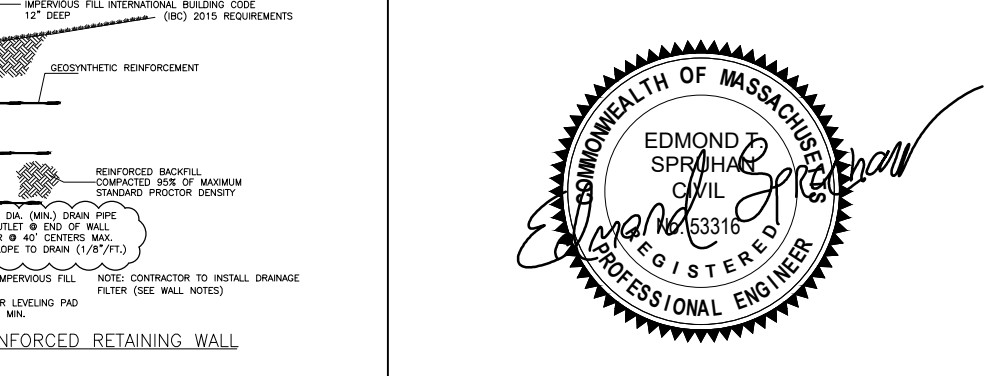
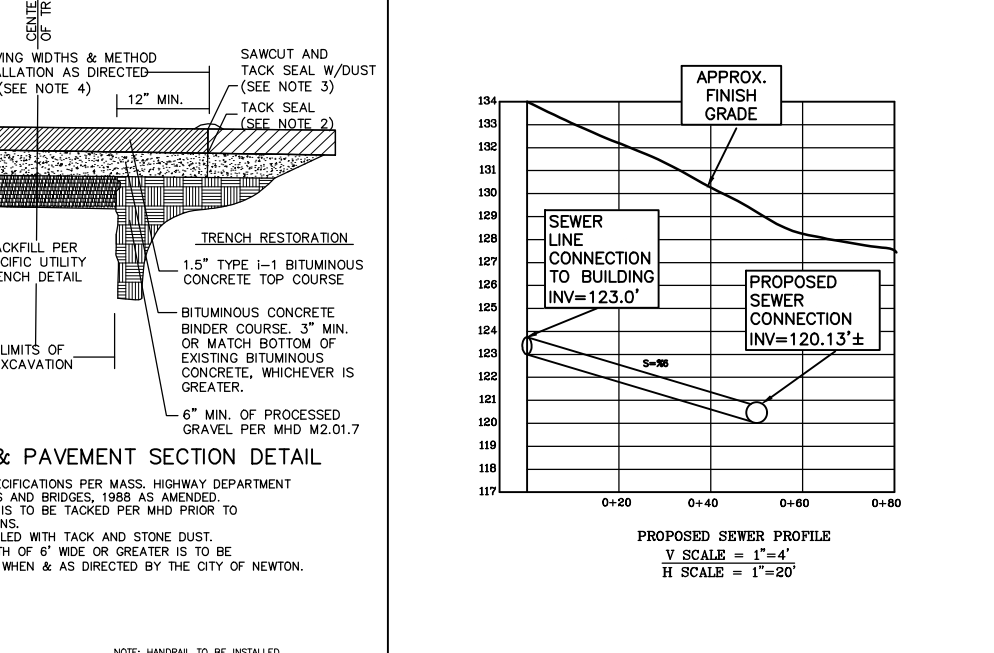
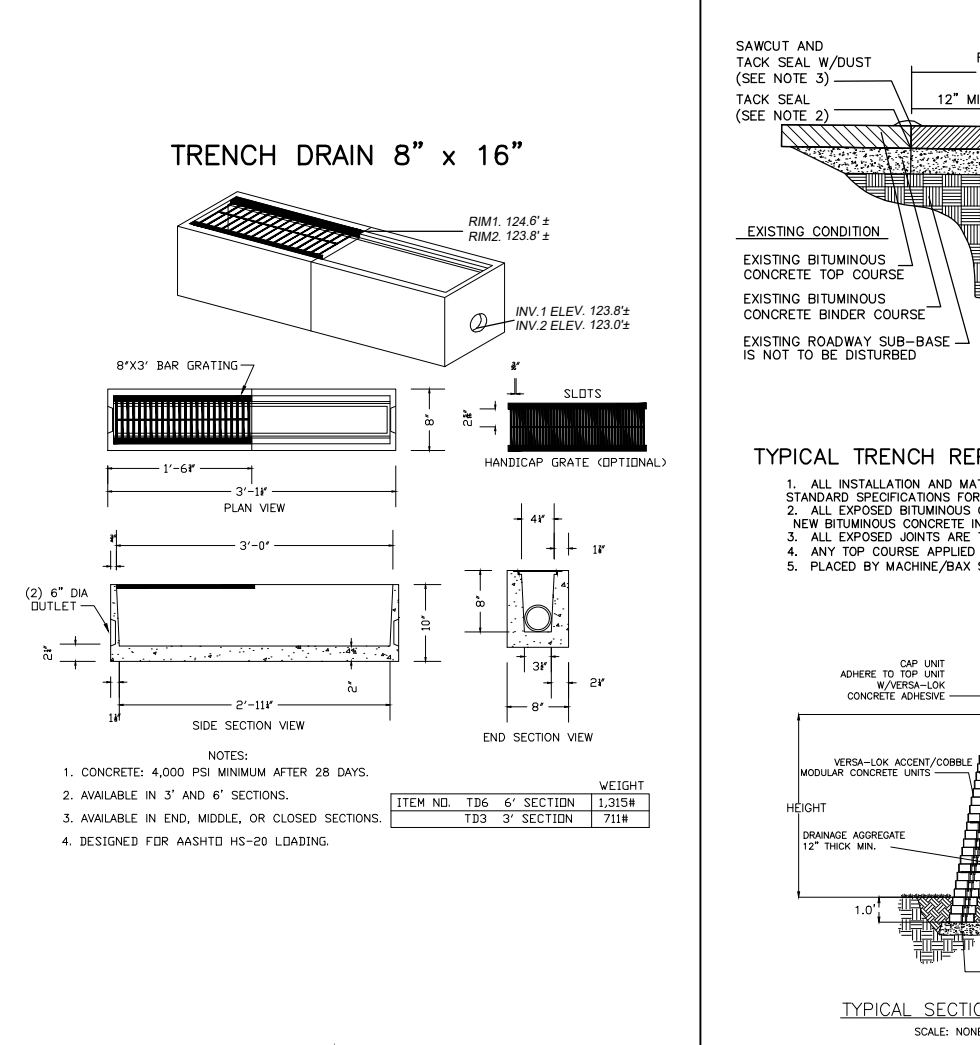
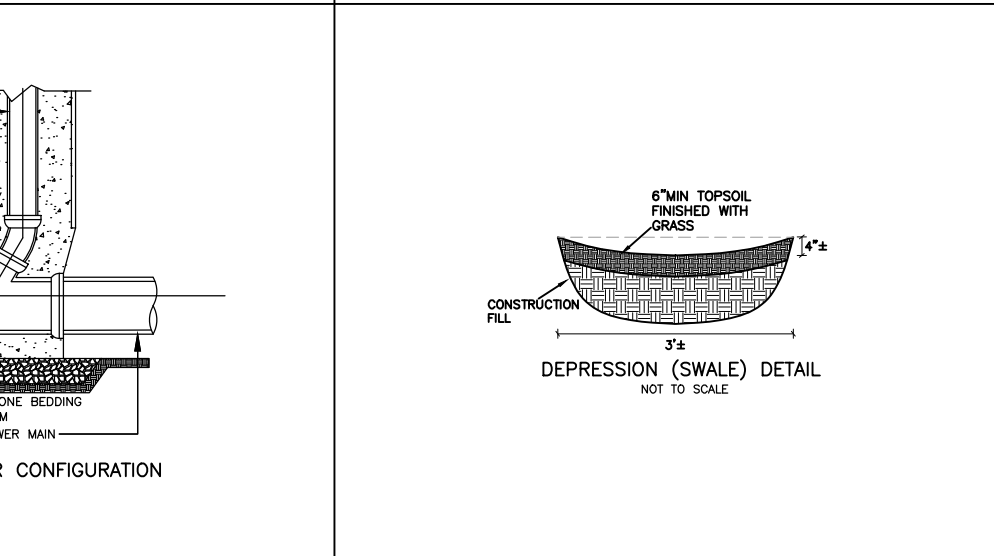
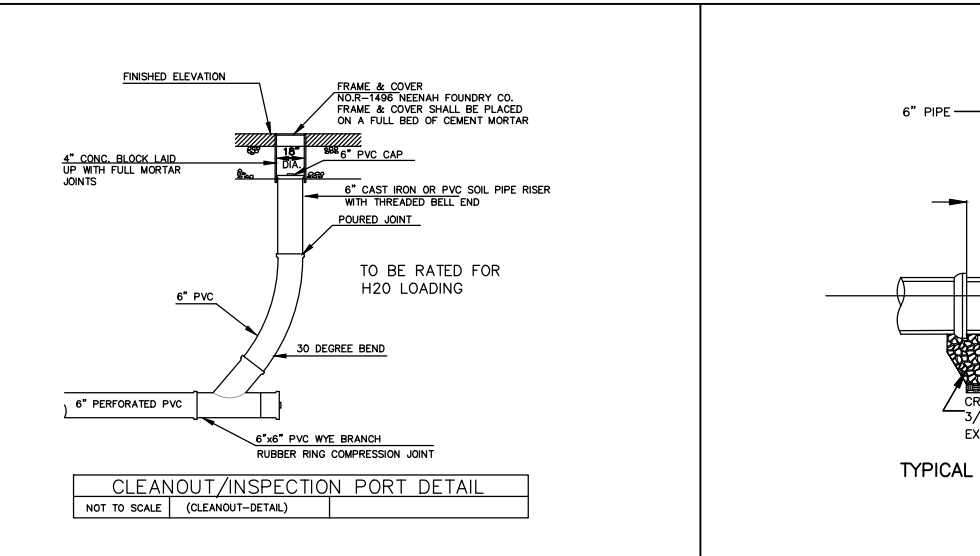
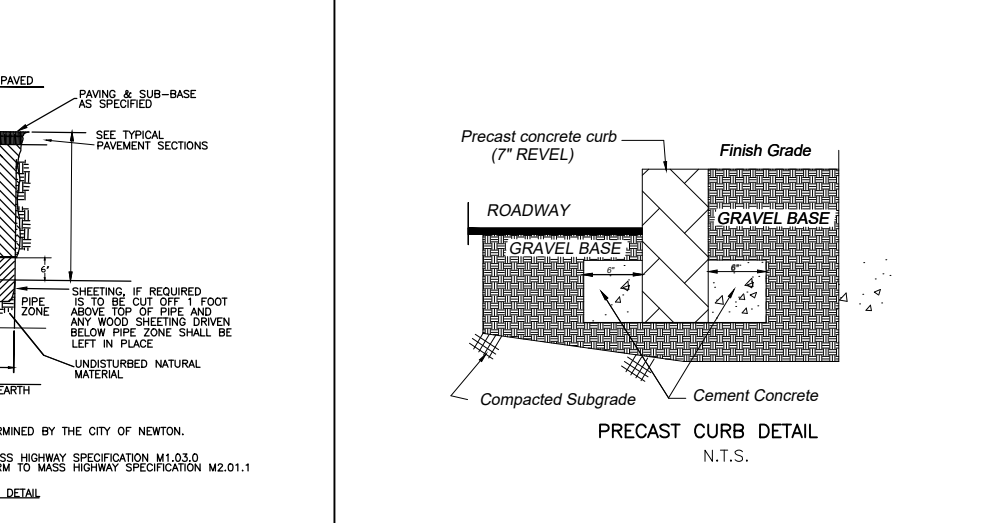
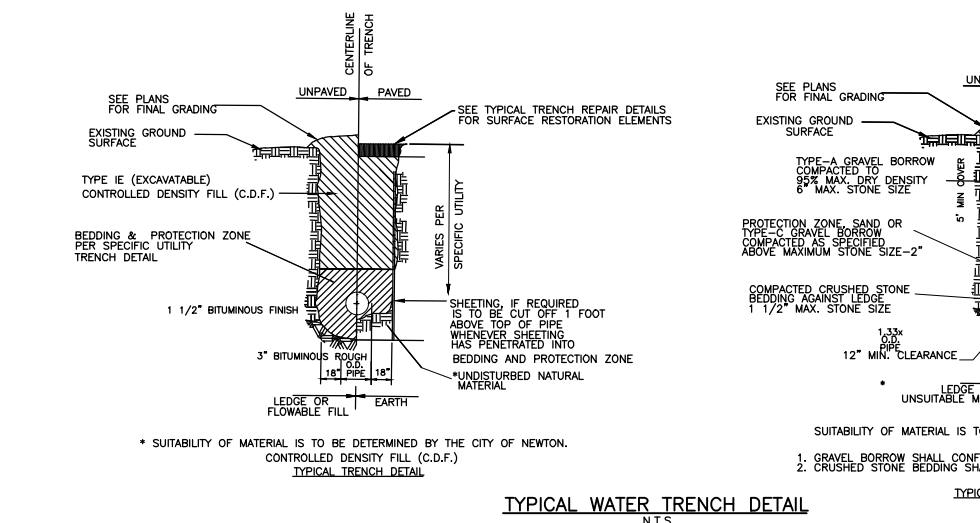
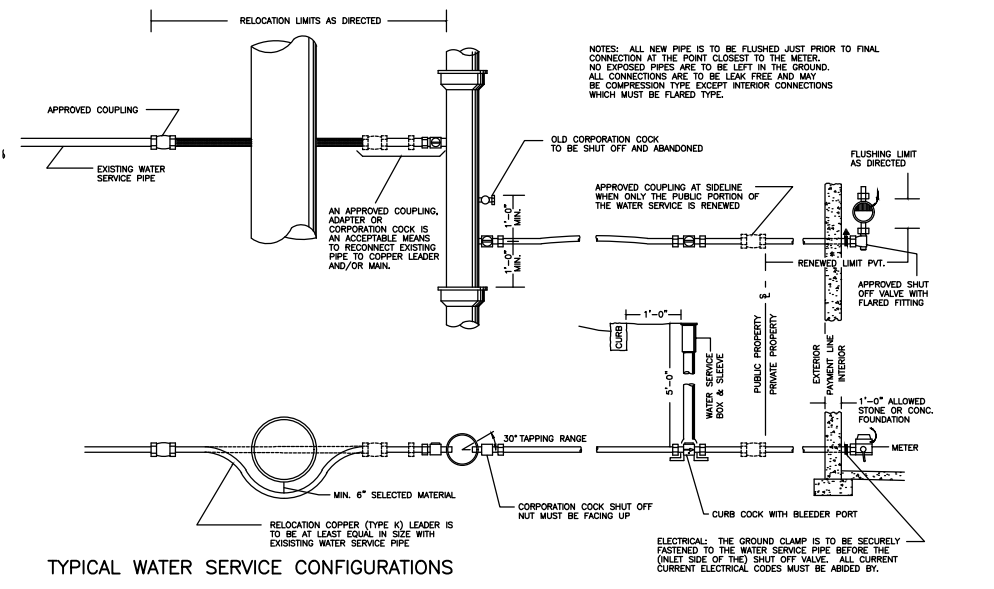
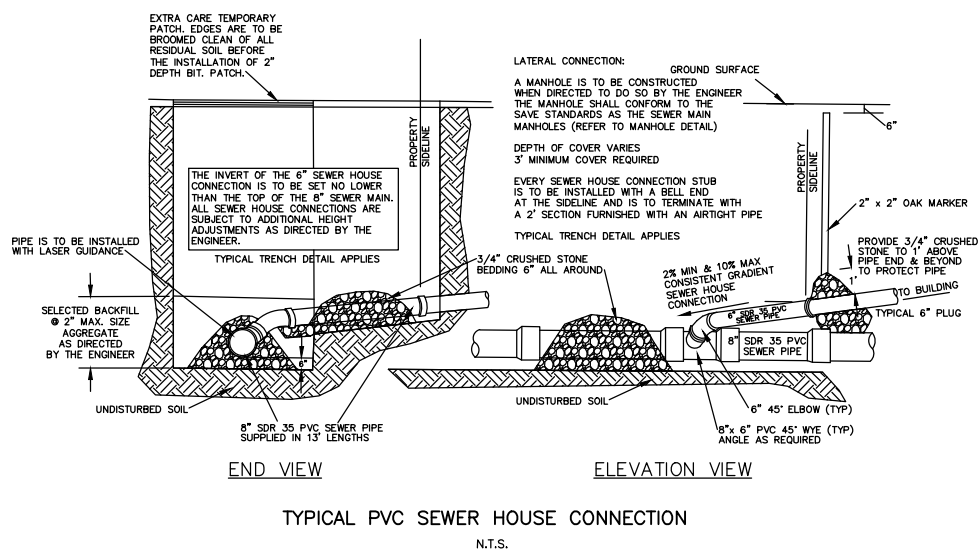
DETAILS



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REVISION BLOCK		
BY	DESCRIPTION	DATE

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