PERMIT SITE PLAN

PROPOSED RCS LEARNING CENTER INC.

82 EDMANDS ROAD

Framingham, Massachusetts

SITE PLAN REVIEW
UNDER SECTIONS VI.F.2.b.1 and VI.F.2.b.3
FRAMINGHAM PLANNING BOARD:

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DATE SIGNED: .....

RCS LEARNING CENTER

82 EDMANDS ROAD
874 EDGELL ROAD RR
FRAMINGHAM, MASSACHUSETTS 01701

ASSESSORS: **MAP 372, BLOCK, 120 LOT 31**
MAP 372, BLOCK, 120 LOT 32

PREPARED FOR:

RCS BEHAVIORAL & EDUCATIONAL CONSULTING, LLC

6 STRATHMORE ROAD
NATICK, MASSACHUSETTS 01760

ZONING
R-4 SINGLE FAMILY RESIDENCE

RECORD OWNER
82 Edmands Road:
Northside, LLC
286 Union Avenue
Framingham, MA 01702

874 Edgell Road RR:
Nobscot Realty Trust
PO Box 1494
Westboro MA 01581

APPLICANT
RCS BEHAVORIAL
& EDUCATIONAL
CONSULTING, LLC

DIMENSIONAL REGULATIONS

	REQUIRED	EXISTING	PROPOSED
LOT AREA:	43,560 SF	300,415 SF	300,415 SF
LOT FRONTAGE:	150 FT	357 FT	357 FT
FRONT YARD SETBACK:	30 FT	65 FT	65 FT
SIDE YARD SETBACK:	30 FT	51 FT	51 FT
LSR:	50 %	87.7 %	51.8 %
BUILDING HEIGHT:	3 STY	2 STY	3 STY
	35 FT	18.5 FT	33 FT
BUILDING LOT COVERAGE:	15 %	0.6 %	12.6 %

PARKING DATA

REQUIRED: (SCHOOL)

1 PER 4 OCCUPANTS	* 395 =	99 SPACES
1 PER 2 EMPLOYEES	* 165 =	83 SPACES
TOTAL REQUIRED	=	182 SPACES
ONE-HALF TOTAL REQUIRED	=	91 SPACES

(FACILITY INTENDED PRIMARILY OF CHILDREN UNDER DRIVING AGE)

PROVIDED: (SCHOOL)

STANDARD SPACES	=	152 SPACES
HANDICAP SPACES	=	10 SPACES
TOTAL PROVIDED	=	162 SPACES

LOCUS MAP
1" = 100'

CIVIL ENGINEERS & LAND SURVEYORS
SCHOFIELD BROTHERS LLC
1071 WORCESTER ROAD
FRAMINGHAM, MA 01701

ARCHITECT
CI DESIGN, INC
509 SOUTH EXETER STREET
BALTIMORE, MD 21202

TRAFFIC ENGINEER
VANASSE HANGEN BRUSTLIN INC.
101 WALNUT STREET
WATERTOWN, MA 02472

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SCHOFIELD BROTHERS LLC
ENGINEERING ◆ SURVEYING ◆ PLANNING ◆ GIS
1071 WORCESTER ROAD
FRAMINGHAM, MA 01701
508-879-0030
www.schofieldbros.com

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COMMONWEALTH OF MASSACHUSETTS
PETER A. LOTHIAN
No. 42878
PROFESSIONAL LAND SURVEYOR
3/21/2016

COMMONWEALTH OF MASSACHUSETTS
BERT E. COREY
CIVIL
No. 48423
REGISTERED PROFESSIONAL ENGINEER
3/21/16

NO.	APP	DATE	DESCRIPTION

DATE: **MARCH 21, 2016**

SCALE: **AS NOTED**

DRAFTED:	CHECKED:	APPROVED:
JAL/KMR	BEC	BEC

TITLE SHEET

SHEET: **1 OF 20**
PROJECT NO.: **24800**

CE-01

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ZONING

R–4 SINGLE FAMILY RESIDENCE

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LEGEND

EXISTING			PROPOSED
----100----		CONTOUR ELEVATION	100
C		UNDERGROUND CABLE LINE	
D		UNDERGROUND DRAIN LINE	D
E		UNDERGROUND ELECTRIC LINE	E
FO		UNDERGROUND FIBER OPTIC LINE	
G		UNDERGROUND GAS LINE	G
S		UNDERGROUND SEWER LINE	S
T		UNDERGROUND TELEPHONE LINE	
W		UNDERGROUND WATER LINE	W
OW		OVERHEAD WIRES	
		CHAIN LINK FENCE LINE	
SBDH		STONE BOUND DRILL HOLE	
SBND		STONE BOUND NO DRILL HOLE	
CBDH		CONCRETE BOUND DRILL HOLE	
CBND		CONCRETE BOUND NO DRILL HOLE	
DH		DRILL HOLE	
IP		IRON PIPE	
SSM		STEEL SURVEY MARKER	
(F)		FOUND	
(S)		SET	
Bk.		BOOK	
Pg.		PAGE	
GW		GUY WIRE	
DMH		DRAIN MANHOLE	DMH
EMH		ELECTRIC MANHOLE	
MH		MANHOLE	
SMH		SEWER MANHOLE	SMH
TMH		TELEPHONE MANHOLE	
RCB		ROUND CATCH BASIN	RCB
CB		CATCH BASIN	CB
GG		GAS GATE	GG
WG		WATER GATE	WG
		CABLE PULL BOX	
		ELECTRIC PULL BOX	
		TELEPHONE PULL BOX	
TCB		TRAFFIC CONTROL BOX	
UP		UTILITY POLE	
LP		LIGHT POLE	LP
BP		BUMPER POST	BP
HYD.		HYDRANT	HYD.
RDR		ROOF DRAIN	RDR
MW		MONITOR WELL	
		SIGN	
oVP		VENT PIPE	
WF		WETLAND FLAG	
BANK		EDGE OF BANK FLAG	
MAHW		MEAN ANNUAL HIGH WATER FLAG	
		IRRIGATION CONTROL VALVE	
		TEST PIT	
FLGT		FLOOD LIGHT	
FP		FLAG POLE	
+123.2		SPOT GRADE	+123.2
CONC.		CONCRETE	
ASP.		ASPHALT	
BIT.		BITUMINOUS	
GRAN.		GRANITE	
ASW		ASPHALT SIDEWALK	ASW
CSW		CONCRETE SIDEWALK	CSW
BSW		BRICK SIDEWALK	BSW
CC		CONCRETE CURB	CC
AC		ASPHALT CURB	AC
SGC		SLOPED GRANITE CURB	SGC
VGC		VERTICAL GRANITE CURB	VGC
BC=0.0		BOTTOM OF CURB ELEVATION	BC=0.0
TC=0.0		TOP OF CURB ELEVATION	TC=0.0
LS		LANDSCAPE AREAS	LS
W/		WITH	
N / F		NOW OR FORMERLY	
W/F		WOOD FRAME	

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY THE LOCATION AND RELATIVE ELEVATION OF BENCH MARKS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. ANY DISCREPANCY SHALL BE REPORTED TO THE ENGINEER.
2. IN CASES WHERE LEDGE, BURIED FOUNDATIONS OR BOULDERS ARE PRESENT, SCHOFIELD BROTHERS, LLC SHALL NOT BE RESPONSIBLE FOR THE AMOUNT OF ROCK OR CONCRETE ENCOUNTERED.
3. SCHOFIELD BROTHERS, LLC SHALL BE NOTIFIED OF ANY SIGNIFICANT DIFFERENCES IN THE EXISTING CONDITIONS OR UTILITIES THAT MAY AFFECT THE CONSTRUCTION SHOWN ON THIS PLAN FOR ANY NECESSARY PLAN REVISIONS.
4. THIS PLAN IS NOT INTENDED TO SHOW AN ENGINEERED BUILDING FOUNDATION DESIGN WHICH WOULD INCLUDE DETAILS AND ELEVATIONS FOR FOOTINGS, FOUNDATION WALL DESIGN AND ANY SUBSURFACE DRAINAGE TO PREVENT FLOODING. COORDINATE WITH THE ARCHITECTURAL AND STRUCTURAL PLANS.
5. THE PROPOSED BUILDING CONFIGURATION AS SHOWN HEREON SHALL BE CONSIDERED CONCEPTUAL AND SHALL BE VERIFIED WITH THE FINAL ARCHITECTURAL PLANS AND THE CURRENT ZONING ORDINANCES PRIOR TO CONSTRUCTION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND/OR REPLACEMENT OF ANY EXISTING FEATURES DAMAGED DURING CONSTRUCTION THAT ARE NOT INTENDED FOR DEMOLITION AND/OR REMOVAL HEREON.
7. SAFETY MEASURES, CONSTRUCTION METHODS AND CONTROL OF WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
8. IF LEDGE REMOVAL IS REQUIRED, EXPLOSIVES MUST NOT BE USED WITHOUT PRIOR WRITTEN CONSENT OF BOTH THE OWNER AND ALL APPLICABLE AGENCIES. ALL THE REQUIRED PERMITS AND EXPLOSIVE CONTROL MEASURES THAT ARE REQUIRED BY THE FEDERAL, STATE, AND LOCAL AUTHORITIES MUST BE IN PLACE PRIOR TO THE CONTRACTOR STARTING AN EXPLOSIVE PROGRAM AND/OR ANY DEMOLITION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALL INSPECTION AND SEISMIC VIBRATION TESTING THAT IS REQUIRED TO MONITOR THE EFFECTS ON ALL LOCAL STRUCTURES.
9. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF TRAFFIC PLAN FOR ALL WORK THAT AFFECTS PUBLIC TRAVEL IN THE RIGHT–OF–WAY.

REGULATORY NOTES

1. THE CONTRACTOR SHALL MAKE HIMSELF AWARE OF ALL CONSTRUCTION REQUIREMENTS, CONDITIONS AND LIMITATIONS IMPOSED BY PERMITS AND APPROVALS ISSUED BY REGULATORY AUTHORITIES PRIOR TO THE COMMENCEMENT OF ANY WORK. CONTRACTOR SHALL COORDINATE AND OBTAIN ALL CONSTRUCTION PERMITS REQUIRED BY REGULATORY AUTHORITIES.
2. SURFACE OPENINGS AND EXCAVATION WORK WITHIN THE TOWN RIGHT OF WAY LIMITS WILL REQUIRE A STREET OPENING PERMIT (SOP). A TRENCH OPENING PERMIT (TOP) SHALL BE OBTAINED PRIOR TO EXCAVATION OF ANY TRENCH.
3. INSTALLATION AND CONSTRUCTION OF PROPOSED UTILITIES TO CONFORM TO THE STANDARDS AND THE SPECIFICATIONS OF THE FRAMINGHAM DEPARTMENT OF PUBLIC WORKS AND THE MANUFACTURERS SPECIFICATIONS FOR THE PROPOSED PRODUCTS.
4. ALL WORK MUST BE INSPECTED BY A FRAMINGHAM DEPARTMENT OF PUBLIC WORKS UTILITY INSPECTOR. THE ENGINEER SHALL ALSO PREPARE AN AS–BUILT PLAN FOR SUBMITTAL TO THE FRAMINGHAM DEPARTMENT OF PUBLIC WORKS. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING SCHOFIELD BROTHERS LLC, 48 HOURS BEFORE BEGINNING CONSTRUCTION AND 48 HOURS PRIOR TO SIGNIFICANT CONSTRUCTION EVENTS TO SCHEDULE NECESSARY INSPECTIONS.
5. ALL SITE DRAINAGE, WATER, AND SEWER OUTSIDE THE BUILDING FOOTPRINT SHALL BE PERFORMED BY A CONTRACTOR LICENSED BY THE TOWN OF FRAMINGHAM.
6. PRESSURE TESTING AND DISINFECTION TESTING SHALL COMPLY WITH THE TOWN OF FRAMINGHAM DEPARTMENT OF PUBLIC WORKS.
7. ALL WORK OUTSIDE OF THE BUILDING THAT IS LESS THAN 10 FEET FROM THE INSIDE FACE OF THE BUILDING FOUNDATIONS SHALL CONFORM WITH THE UNIFORM STATE PLUMBING CODE OF MASSACHUSETTS, 248 CMR 2.00.
8. CONSTRUCTION ACTIVITIES SHALL CONFORM TO THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
9. SEWER DEMAND CALCULATIONS, BASED ON 310 CMR, TITLE 5:
   –PROPOSED SCHOOL (352 OCCUPANTS)(5 GPD/OCCUPANT)= 1,760 GPD. SCHOOL DOES NOT HAVE A STAFFED CAFETERIA. THE SCHOOL HAS A GYMNASIUM BUT NO SHOWERS.

GRADING AND UTILITY PLAN NOTES

1. THE LOCATION OF UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON FIELD LOCATION OF VISIBLE STRUCTURES AND COMPILING INFORMATION FROM PLANS PROVIDED BY UTILITY COMPANIES AND GOVERNMENT AGENCIES AND CONFORMS TO "ASCE" QUALITY LEVEL "C" PER ASCE DOCUMENT "CI/ASCE 38–02". LOCATION SHOWN SHALL BE CONSIDERED APPROXIMATE. BEFORE CONSTRUCTION, THE LOCATION OF UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR. IN ACCORDANCE WITH CH. 82, SEC 40 AS AMENDED, ALL UTILITY COMPANIES AND APPLICABLE CONTACT "DIG–SAFE" AT 811.
2. UNLESS OTHERWISE SHOWN HEREON, ALL NEW UTILITIES SHALL BE UNDERGROUND.
3. RIM ELEVATIONS SHOWN HEREON FOR NEW STRUCTURES ARE PROVIDED TO ASSIST THE CONTRACTOR WITH MATERIAL TAKEOFFS. FINAL RIM ELEVATIONS SHALL MATCH PAVEMENT, GRADING, LANDSCAPING, UNLESS SPECIFICALLY INDICATED OTHERWISE.
4. WHERE CONNECTIONS AND STRUCTURES ARE TO BE INSTALLED AT EXISTING UTILITIES, THE CONTRACTOR SHALL CONFIRM THE LOCATION AND ELEVATION PRIOR TO INSTALLATION AND SHALL REPORT ANY SIGNIFICANT DISCREPANCY FROM THE PLAN INFORMATION TO THE ENGINEER.
5. HANDICAP PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED A SLOPE OF 1:50 (2%) IN ANY DIRECTION.
6. WALKWAY GRADES SHALL NOT HAVE LONGITUDINAL SLOPES IN EXCESS OF 1:50 (5%) OR CROSS SLOPES IN EXCESS OF 1:50 (2%), UNLESS OTHERWISE NOTED.
7. WALK GRADIENTS AND CROSS SLOPES SHOWN HEREON ARE WITHIN, OR LESS THAN, THE REQUIREMENTS OF THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD'S (MAAB) REGULATIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONSTRUCT THE WORK SO THAT IT IS COMPLIANT WITH ALL REQUIRED REGULATIONS. NOTE THAT THE MAXIMUM GRADIENTS WITHIN THE REGULATIONS DO NOT RECOGNIZE "CONSTRUCTION TOLERANCES." EXCEEDING THE MAXIMUM GRADIENTS IN THE REGULATIONS IS ENTIRELY AT THE CONTRACTOR'S RISK. THE CONTRACTOR SHALL VERIFY IN WRITING THAT ALL WALKS HAVE BEEN CONSTRUCTED IN COMPLIANCE WITH THE MAAB'S REGULATIONS.
8. ALL ACCESSIBLE PARKING SPACES SHALL HAVE SIGNAGE AND MARKINGS COMPLIANT WITH THE MAAB REGULATIONS.
9. CURB RADII AND DIMENSIONS SHOWN HEREON ARE AT THE FACE OF CURB.
10. WHERE NEW PAVING MEETING EXISTING PAVING, MEET LINE AND GRADE OF EXISTING WITH NEW PAVING.
11. AT LOCATIONS WHERE EXISTING PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING PAVEMENT SHALL BE SAWCUT TO A CLEAN AND SMOOTH EDGE.
12. PERIMETER EROSION CONTROLS SHOWN HEREON SHALL BE INSTALLED PRIOR TO ANY EARTH DISTURBANCE AND SHALL SERVE AS A LIMIT OF WORK, UNLESS OTHERWISE SHOWN. SEE SHEET CE–13 FOR ADDITIONAL EROSION AND SEDIMENTATION CONTROL NOTES.
13. RETAINING WALLS SHOWN HEREON ARE FOR SHOWING THE INTENT OF THE SITE GRADING. ALL PROPOSED RETAINING WALLS SHALL BE DESIGNED AND CERTIFIED BY OTHERS.

SITE PLAN REVIEW
UNDER SECTIONS VI.F.2.b.1 and VI.F.2.b.3
FRAMINGHAM PLANNING BOARD:

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DATE SIGNED: .....

PLAN INTENT

1. THE INTENT OF THIS PLAN IS FOR PERMITTING PURPOSES ONLY AND SHALL NOT BE USED FOR CONSTRUCTION PURPOSES.

RCS LEARNING CENTER

82 EDMANDS ROAD
874 EDGELL ROAD RR
FRAMINGHAM, MASSACHUSETTS 01701

ASSESSORS: MAP 372, BLOCK, 120 LOT 31
MAP 372, BLOCK, 120 LOT 32

PREPARED FOR:

RCS BEHAVIORAL & EDUCATIONAL CONSULTING, LLC

6 STRATHMORE ROAD
NATICK, MASSACHUSETTS 01760

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No. 40978
PROFESSIONAL LAND SURVEYOR
3/21/2016

COMMONWEALTH OF MASSACHUSETTS
BERT E. COREY
CIVIL
No. 48423
REGISTERED PROFESSIONAL ENGINEER
3/21/16

NO.	APP	DATE	DESCRIPTION

DATE: **MARCH 21, 2016**

SCALE: **AS SHOWN**

DRAFTED:	CHECKED:	APPROVED:
JAL/KMR	BEC	BEC

SITE DATA, NOTES AND LEGEND SHEET

SHEET: 2 OF 20

PROJECT NO.: 24800

CE-02

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MASSACHUSETTS GRID COORDINATE SYSTEM NAD83

SITE PLAN REVIEW
UNDER SECTIONS VI.F.2.b.1 and VI.F.2.b.3
FRAMINGHAM PLANNING BOARD:

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DATE SIGNED: ....

NOTES

1.) RECORD OWNERS ARE:
~ 82 EDMANDS ROAD – NORTHSIDE, LLC
BOOK 54493, PAGE 144
~ 874 EDGELL ROAD (REAR) – NOBSCOT REALTY TRUST
BOOK 49487, PAGE 534

2.) ELEVATIONS REFER TO (SEE NOTE #7 BELOW).

3.) SEE FRAMINGHAM ASSESSORS MAP:
~ 82 EDMANDS ROAD – MAP 372, BLOCK 120, LOT 31.
~ 874 EDGELL ROAD (REAR) – MAP 372, BLOCK 120, LOT 32.

4.) PARCEL FALLS WITHIN ZONING DISTRICT SINGLE FAMILY RESIDENCE "R–4".

5.) OWNERS OF ADJOINING PROPERTIES ARE ACCORDING TO CURRENT ASSESSORS RECORDS.

6.) SEE MIDDLESEX SOUTH REGISTRY OF DEEDS FOR RECORD DOCUMENTS.

7.) PROPERTY LINES, TOPOGRAPHIC FEATURES, SITE DETAILS, AND SIGNIFICANT IMPROVEMENTS DEPICTED HEREON, WERE OBTAINED FROM A PLAN ENTITLED "ALTA/ACSM LAND TITLE PLAN AT EDGELL ROAD AND EDMANDS ROAD IN FRAMINGHAM, MA, EXISTING CONDITIONS PLAN" DATED DECEMBER 6, 2000, PREPARED FOR ARCHSTONE COMMUNITIES, c/o BOB McCULLOUGH 49 WALTHAM STREET, LEXINGTON, MA 02421 AND PREPARED BY DAYLOR CONSULTING GROUP, INC. AND PARTIAL ON THE GROUND SURVEY BY SCHOFIELD BROTHERS LLC ON NOVEMBER 11, 2015.

8.) LOCATION OF UNDERGROUND UTILITIES SHOWN HEREON WERE DETERMINED FROM EXISTING RECORDS AND FROM LOCATION OF ABOVE GROUND UTILITY FEATURES AND CONFORM TO "ASCE QUALITY LEVEL C" PER ASCE DOCUMENT "CI/ASCE 38–02". LOCATION SHOWN SHALL BE CONSIDERED APPROXIMATE. BEFORE CONSTRUCTION, THE LOCATION OF UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR. IN ACCORDANCE WITH CH. 82, SEC. 40 AS AMENDED, ALL UTILITY COMPANIES AND APPLICABLE GOVERNMENT AGENCIES MUST BE CONTACTED. CONTACT "DIG–SAFE" AT 1–888–344–7233 OR 811

9.) LEGAL STATUS OF WAYS, EASEMENTS AND RESTRICTIONS NOT DETERMINED BY THIS SURVEY.

BENCHMARKS

#1	TOP OF STONE BOUND	ELEV=246.09
#2	NORTH BB ON HYDRANT	ELEV=239.39
#3	SPIKE SET IN 14" PINE TREE	ELEV=253.90
#4	SPIKE SET IN 16" PINE TREE	ELEV=247.94

50 0 25 50 100 200
GRAPHIC SCALE

RCS LEARNING CENTER

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BERT E. COREY
CIVIL
No. 48423
REGISTERED PROFESSIONAL ENGINEER
3/21/16

NO.	APP	DATE	DESCRIPTION

DATE: **MARCH 1, 2016**

SCALE: **1" = 50'**

DRAFTED:	CHECKED:	APPROVED:
JAL/KMR	BEC	BEC

EXISTING CONDITIONS PLAN

SHEET: **3 OF 20**

PROJECT NO.: **24800**

CE-03

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SITE PLAN REVIEW
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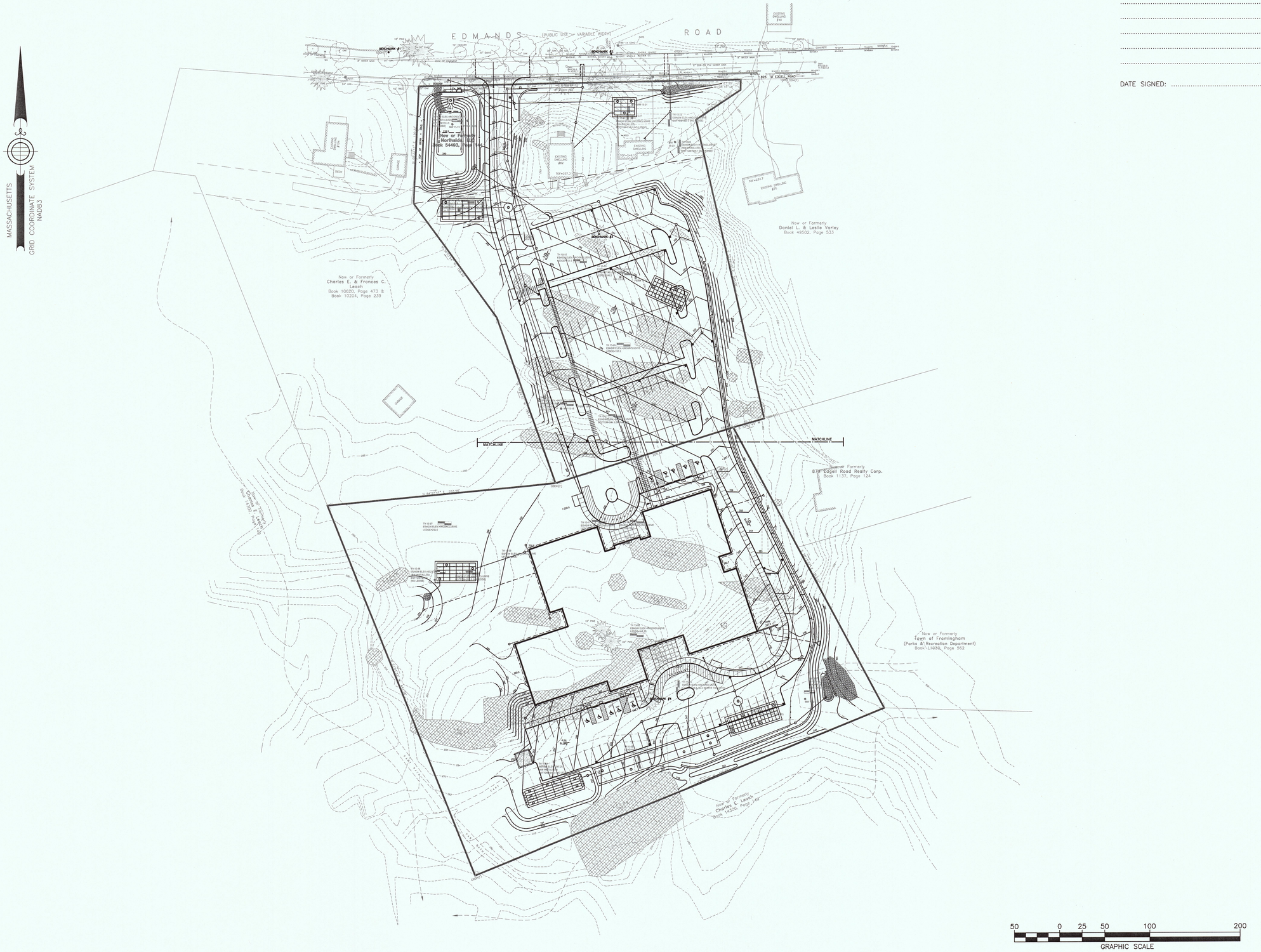

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PETER A. LOTHAN
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PROFESSIONAL LAND SURVEYOR
3/21/2016

COMMONWEALTH OF MASSACHUSETTS
BERT E. COREY
CIVIL
No. 46423
REGISTERED PROFESSIONAL ENGINEER
3/21/16

NO.	APP	DATE	DESCRIPTION

DATE: MARCH 21, 2016

SCALE: 1" = 50'

DRAFTED:	CHECKED:	APPROVED:
JAL/KMR	BEC	BEC

OVERALL PROPOSED CONDITIONS PLAN

SHEET: 4 OF 20

PROJECT NO.: 24800

CE-04

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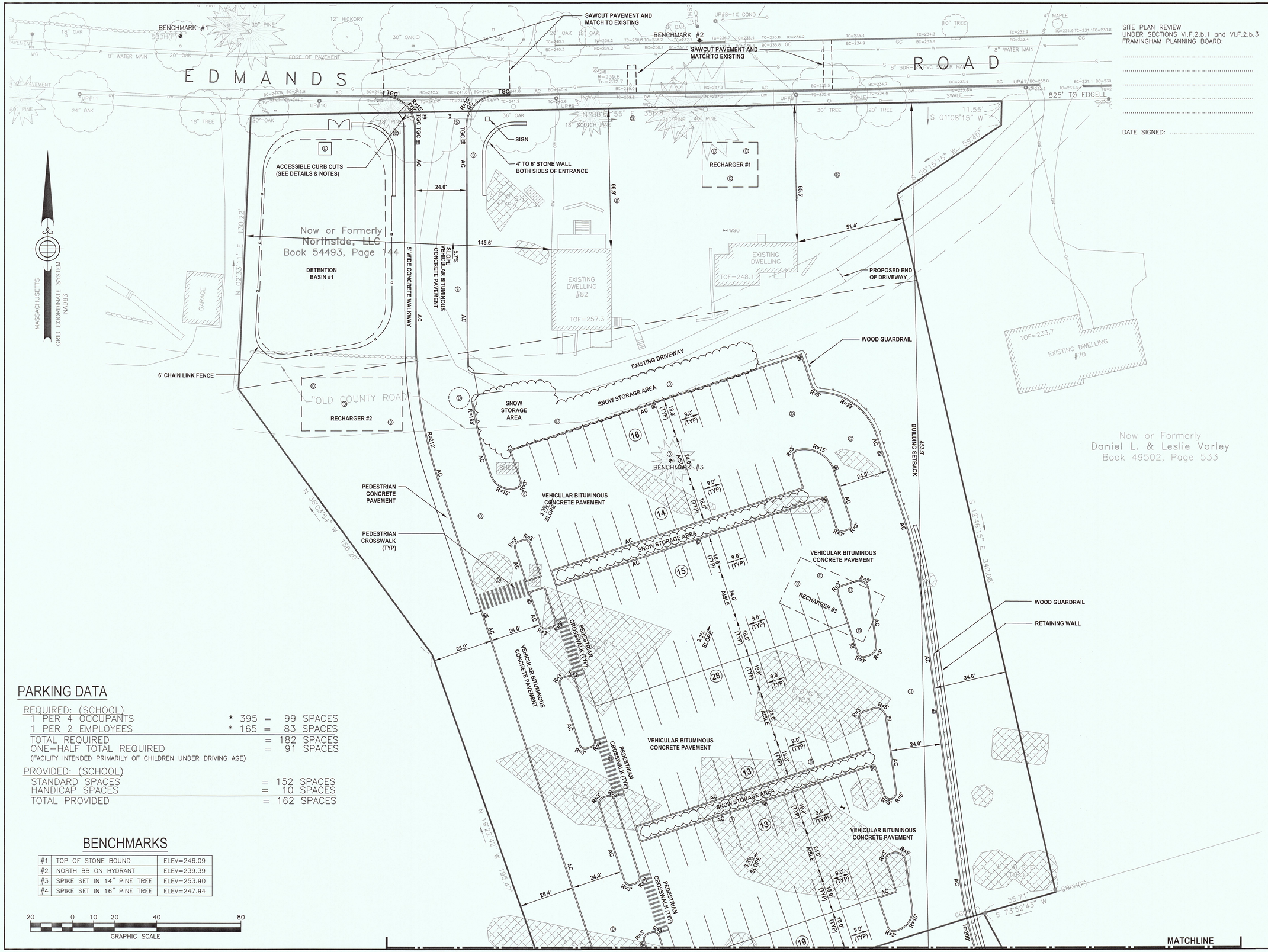

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20 0 10 20 40 80
GRAPHIC SCALE

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COMMONWEALTH OF MASSACHUSETTS PETER A. LOTHIAN No. 40878 PROFESSIONAL LAND SURVEYOR
3/21/2016

COMMONWEALTH OF MASSACHUSETTS BERT E. COREY CIVIL No. 48423 REGISTERED PROFESSIONAL ENGINEER
3/21/16

NO.	APP	DATE	DESCRIPTION

DATE: MARCH 21, 2016

SCALE: 1" = 20'

DRAFTED:	CHECKED:	APPROVED:
JAL/KMR	BEC	BEC

LAYOUT AND MATERIALS PLAN

SHEET: 5 OF 20

PROJECT NO.: 24800

CE-05

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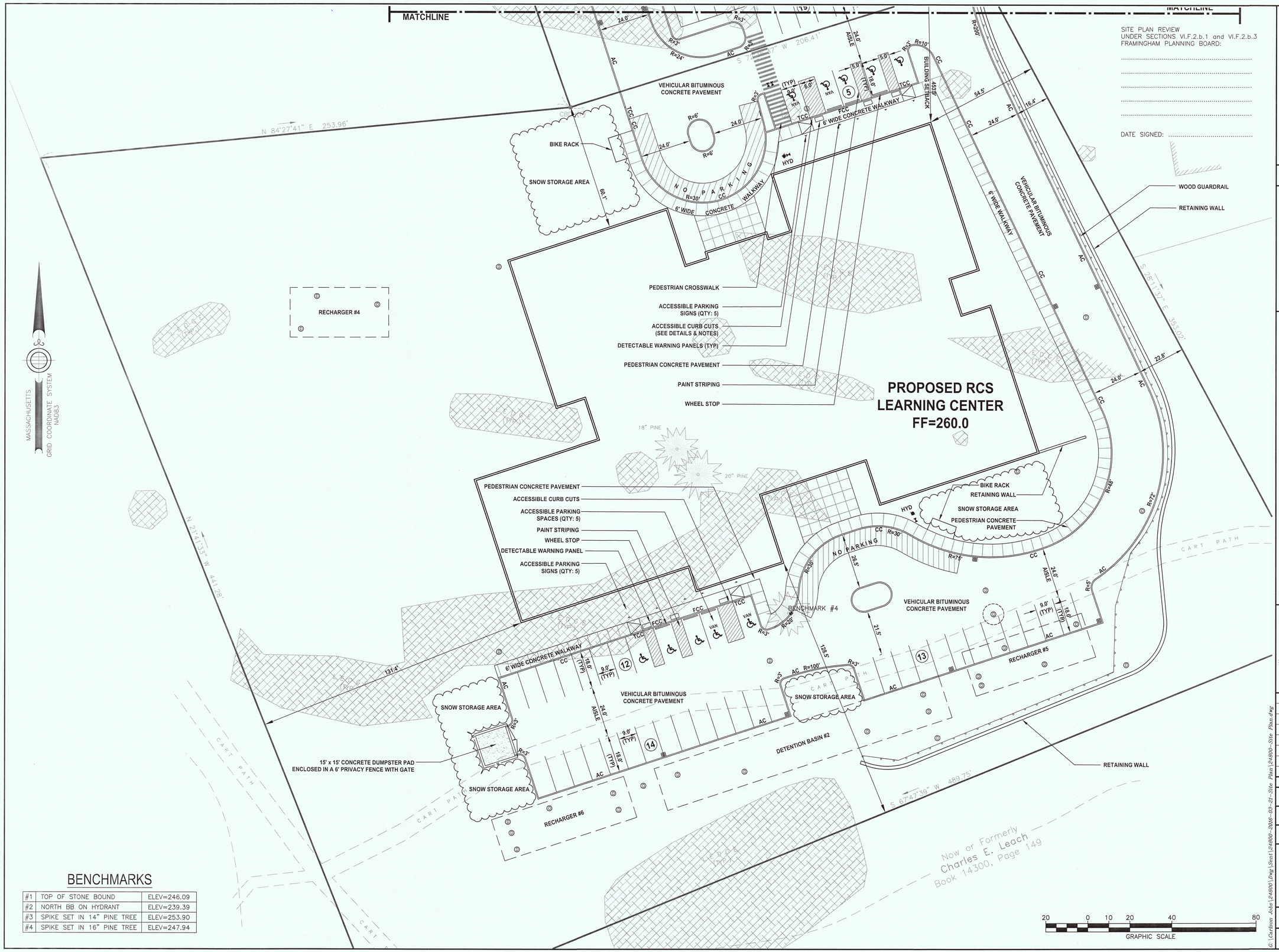

BENCHMARKS

#1	TOP OF STONE BOUND	ELEV=246.09
#2	NORTH BB ON HYDRANT	ELEV=239.39
#3	SPIKE SET IN 14" PINE TREE	ELEV=253.90
#4	SPIKE SET IN 16" PINE TREE	ELEV=247.94

RCS LEARNING CENTER

82 EDMANDS ROAD
874 EDGELL ROAD RR
FRAMINGHAM, MASSACHUSETTS 01701

ASSESSORS: MAP 372, BLOCK, 120 LOT 31
MAP 372, BLOCK, 120 LOT 32

PREPARED FOR:

RCS BEHAVIORAL & EDUCATIONAL CONSULTING, LLC

6 STRATHMORE ROAD
NATICK, MASSACHUSETTS 01760

SCHOFIELD BROTHERS LLC
ENGINEERING ◆ SURVEYING ◆ PLANNING ◆ GIS
1071 WORCESTER ROAD
FRAMINGHAM, MA 01701
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LAYOUT AND MATERIALS PLAN

SHEET: 6 OF 20

PROJECT NO.: 24800

CE-06

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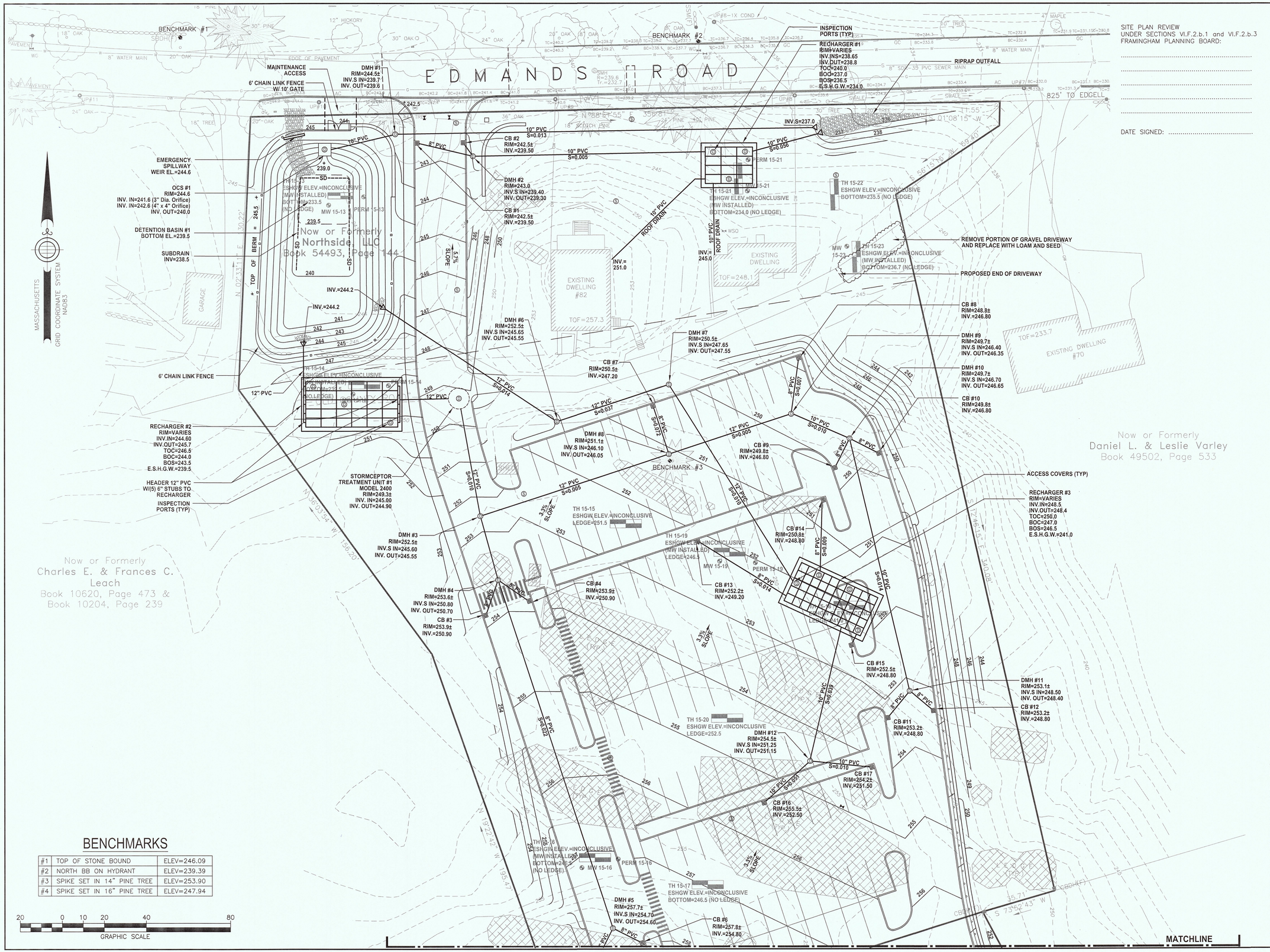

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SITE PLAN REVIEW
UNDER SECTIONS VI.F.2.b.1 and VI.F.2.b.3
FRAMINGHAM PLANNING BOARD:

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DATE SIGNED: .....

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3/21/2016

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3/21/16

NO.	APP	DATE	DESCRIPTION

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GRADING AND DRAINAGE PLAN

SHEET: 7 OF 20

PROJECT NO.: 24800

CE-07

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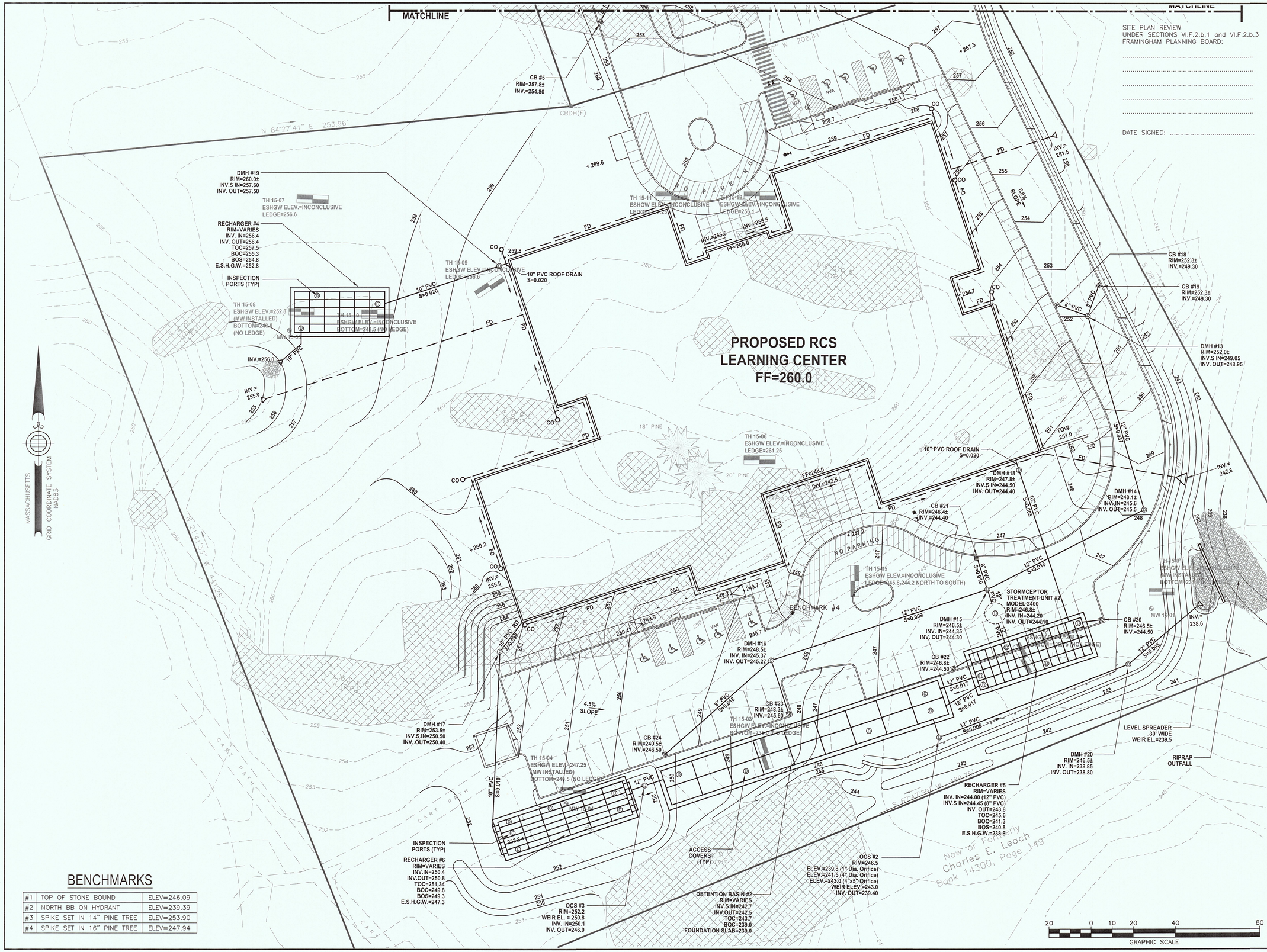

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SITE PLAN REVIEW
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DATE SIGNED: .....

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FRAMINGHAM, MASSACHUSETTS 01701

ASSESSORS: MAP 372, BLOCK, 120 LOT 31
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COMMONWEALTH OF MASSACHUSETTS
PETER A. LOTHIAN
No. 40678
PROFESSIONAL LAND SURVEYOR
3/21/2016

COMMONWEALTH OF MASSACHUSETTS
BERT E. COREY
CIVIL
No. 48423
REGISTERED PROFESSIONAL ENGINEER
3/21/16

NO.	APP	DATE	DESCRIPTION

DATE: MARCH 21, 2016

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GRADING AND DRAINAGE PLAN

SHEET: 8 OF 20

PROJECT NO.: 24800

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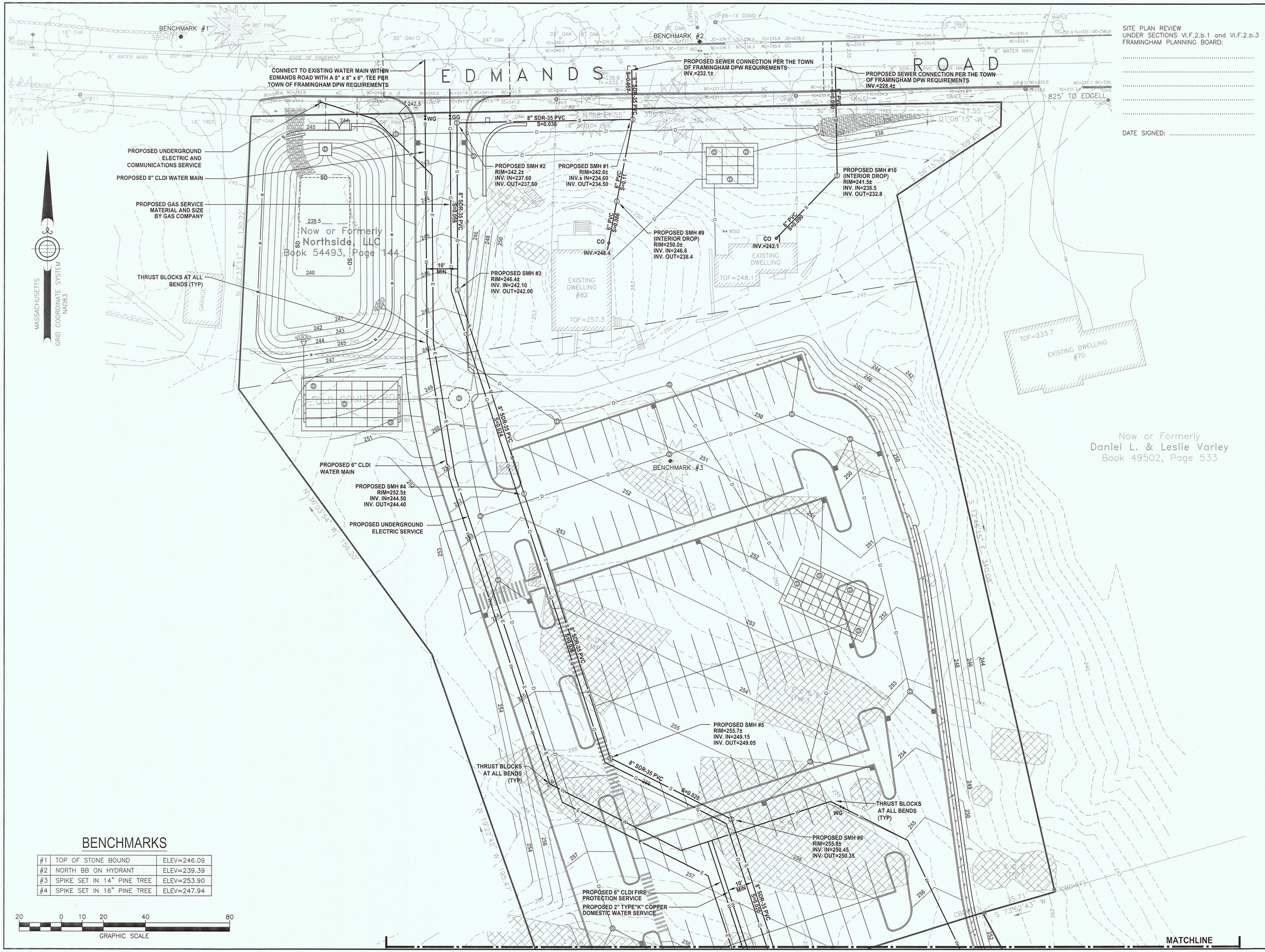

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20 0 10 20 40 80
GRAPHIC SCALE

SITE PLAN REVIEW
UNDER SECTIONS VI.F.2.b.1 and VI.F.2.b.3
FRAMINGHAM PLANNING BOARD:

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COMMONWEALTH OF MASSACHUSETTS PETER A. LOTHIAN No. 40078 PROFESSIONAL LAND SURVEYOR
3/21/2016

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3/21/16

NO.	APP	DATE	DESCRIPTION

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SCALE: 1" = 20'

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SITE UTILITIES PLAN

SHEET: 9 OF 20

PROJECT NO.: 24800

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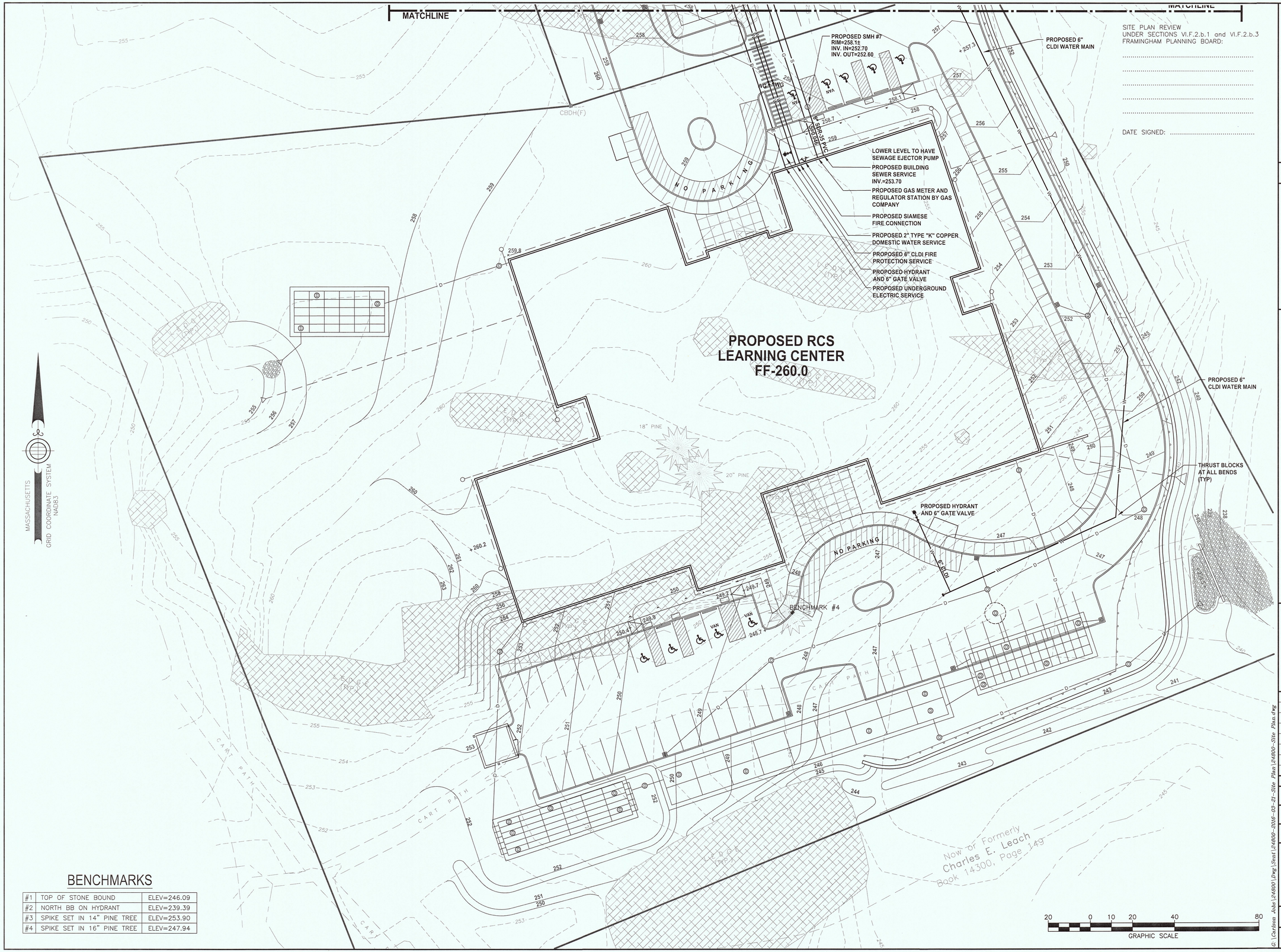

SITE PLAN REVIEW
UNDER SECTIONS VI.F.2.b.1 and VI.F.2.b.3
FRAMINGHAM PLANNING BOARD:

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3/21/2016

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BERT E. COREY
CIVIL
No. 48423
REGISTERED PROFESSIONAL ENGINEER
3/21/16

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SCALE: **1" = 20'**

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SITE UTILITIES PLAN

SHEET: 10 OF 20

PROJECT NO.: 24800

CE-10

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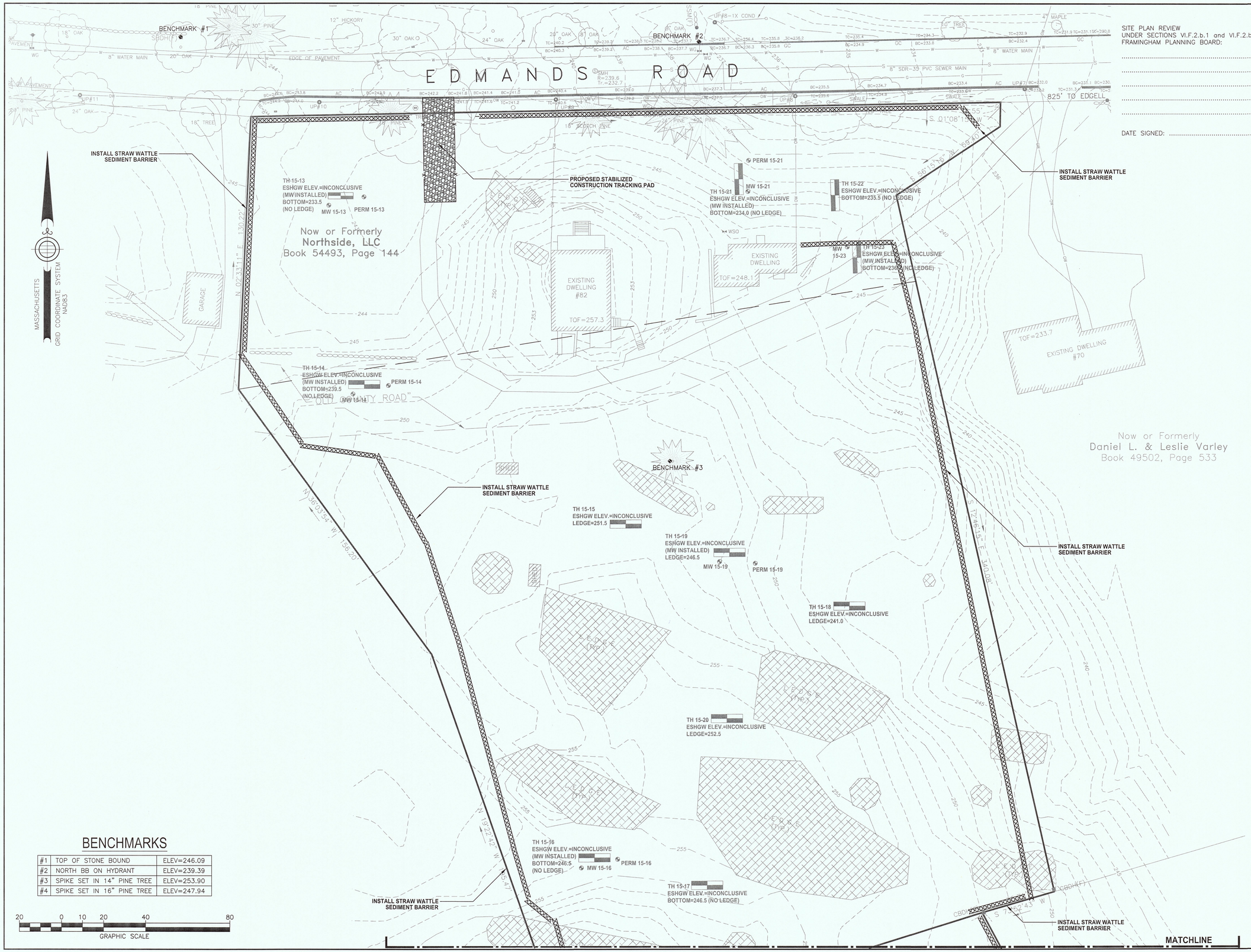

SITE PLAN REVIEW
UNDER SECTIONS VI.F.2.b.1 and VI.F.2.b.3
FRAMINGHAM PLANNING BOARD:

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20 0 10 20 40 80
GRAPHIC SCALE

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EROSION AND SEDIMENT CONTROL PLAN

SHEET: 11 OF 20

PROJECT NO.: 24800

CE-11

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MATCHLINE

MATCHLINE

SITE PLAN REVIEW
UNDER SECTIONS VI.F.2.b.1 and VI.F.2.b.3
FRAMINGHAM PLANNING BOARD:

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DATE SIGNED: .....

INSTALL STRAW WATTLE SEDIMENT BARRIER

N 84°27'41" E 253.96'

S 72°36'37" W 206.41'

INSTALL STRAW WATTLE SEDIMENT BARRIER

MATERIALS STORAGE AREA

PROPOSED RCS LEARNING CENTER
FF=260.0

18" PINE

20" PINE

INSTALL STRAW WATTLE SEDIMENT BARRIER

N 21°41'33" W 441.78'

BENCHMARK #4

CART PATH

CART PATH

CART PATH

CART PATH

INSTALL STRAW WATTLE SEDIMENT BARRIER

Now or Formerly
Charles E. Leach
Book 14300, Page 149

BENCHMARKS

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EROSION AND SEDIMENT CONTROL PLAN

SHEET: 12 OF 20

PROJECT NO.: 24800

CE-12

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GENERAL PERFORMANCE STANDARDS

1. THE CONTRACTOR SHALL INSTALL, ROUTINELY INSPECT AND MAINTAIN ALL SEDIMENT AND EROSION CONTROLS SUCH THAT THEY ARE IN PROPER WORKING ORDER AT ALL TIMES DURING THE CONSTRUCTION PROJECT UNTIL SUCH TIME AS ALL AREAS OF THE SITE TRIBUTARY TO THOSE EROSION CONTROLS ARE IN A PERMANENTLY STABILIZED CONDITION.
2. THE CONTRACTOR SHALL MANAGE THE SITE SUCH THAT EROSION AND SEDIMENT FROM RUNOFF AND WIND BLOWN DUST ARE CONTROLLED AND MINIMIZED AT ALL TIMES. THE EROSION CONTROLS SHOWN ON THIS PLAN INCLUDE THE INITIAL SETUP OF EROSION CONTROLS AND BASIC INFORMATION. TO MEET THE REQUIREMENT OF BEST MANAGEMENT PRACTICES. THE CONTRACTOR MUST MANAGE THE SITE PROPERLY WHICH MAY INCLUDE, BUT NOT BE LIMITED TO: MINIMIZING AREAS OF EXPOSED SOILS; INSTALLING TEMPORARY COVER; MAKE NECESSARY ADJUSTMENTS TO THE EROSION CONTROL INSTALLATIONS TO IMPROVE FUNCTION; INSTALL ADDITIONAL EROSION CONTROL WHERE NECESSARY.
3. THE EROSION CONTROL WORK SHOWN ON THIS PLAN MAY ALSO BE SUBJECT TO OTHER STATE AND LOCAL APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE CONDITIONS AND REQUIREMENTS OF THOSE PERMITS.
4. DESIGN, INSTALLATION AND MAINTENANCE OF SEDIMENT AND EROSION CONTROLS SHALL BE IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES FOLLOWING THE GUIDELINES INCLUED IN THE FOLLOWING:
   - "STORMWATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES, DEVELOPING POLLUTION PREVENTION PLANS AND BEST MANAGEMENT PRACTICES" U.S. ENVIRONMENTAL PROTECTION AGENCY, OCTOBER 1992.
   - "MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS, A GUIDE FOR PLANNERS, DESIGNERS AND MUNICIPAL OFFICIALS", MASS. EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS, MAY 2003.
   - U.S.D.A. NATURAL RESOURCES AND CONSERVATION SERVICES (NRCS) GUIDELINES.

FEDERAL NPDES PHASE II COMPLIANCE

1. THIS PROJECT IS SUBJECT TO THE FEDERAL CLEAN WATER ACT REQUIREMENTS FOR CONSTRUCTION SITES ADMINISTERED BY THE U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA). THIS PROGRAM IS THE "NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM – PHASE II FOR CONSTRUCTION SITES. FOR COMPLIANCE WITH THIS PROGRAM, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A COMPLETE "STORMWATER POLLUTION PREVENTION PLAN" (SWPPP) AND FILING A NOTICE OF INTENT WITH THE EPA AND THEN MANAGE THE SITE IN COMPLIANCE WITH THAT PLAN. NOTE THAT THE SWPPP IS TO BE PREPARED TO BE CONSISTENT WITH THIS EROSION AND SEDIMENT CONTROL PLAN AND OTHER APPLICABLE APPROVALS. THE EROSION AND SEDIMENT CONTROL PLAN INCLUDED IN THIS PLAN SET MAY BE USED AS PART OF THE DOCUMENTATION REQUIRED FOR THE PREPARATION OF A SWPPP, BUT IS NOT TO BE CONSIDERED AS MEETING THE FULL REQUIREMENTS OF A SWPPP PREPARED FOR COMPLIANCE WITH THE NPDES PROGRAM.
2. A COPY OF THE SWPPP SHALL BE FILED WITH THE MUNICIPAL AUTHORITIES AS REQUIRED BY APPLICABLE PERMITS AND APPROVALS.

PERIMETER SEDIMENT BARRIER AND LIMIT OF WORK

1. PRIOR TO ANY DISTURBANCE OR ALTRATIONS OF ANY AREA ON THE SITE, A SEDIMENT BARRIER AND ORANGE POLYETHYLENE CONSTRUCTION FENCING SHALL BE INSTALLED IN THE LOCATIONS SHOWN ON THE PLAN.
2. INSTALL THE SEDIMENT BARRIER AS SHOWN ON THE PLAN. IN THOSE AREAS WHERE THE TOPOGRAPHY INDICATES THAT STORMWATER RUNOFF WILL BE CONCENTRATED (AT LOW POINTS), ADDITIONAL SEDIMENT BARRER SHALL BE STAKED ON THE UPGRADIENT SIDE FOR ADDED FILTRATION AND PROTECTION. THE REQUIRED LOCATIONS FOR THE ADDITIONAL SEDIEMENT BARRER INSTALLATION WILL BE SELECTED BY THE ENGINEER AND / OR THE AUTHORIZED INSPECTOR / SWPPP COORDINATOR UPON COMPLETION OF THE SILT FENCE INSTALLATION. SEE DETAILS.
3. ONCE INSTALLED, THE SEDIMENT BARRIER SHALL BE MAINTAINED IN PLACE UNTIL ALL AREAS UPGRADIENT FROM THE BARRIERS HAVE BEEN PERMANENTLY STABILIZED.
4. ALL DISTURBED AREAS NOT OTHERWISE DEVELOPED OR WHERE SPECIAL STABILIZATION MEASURES OR LANDSCAPE PLANTINGS ARE PROPOSED SHALL BE LOAMED AND SEEDED OR SODDED. SIX INCHES OF LOAM TOPSOIL (MIN. COMPACTED DEPTH) SHALL BE APPLIED UNLESS, OTHERWISE SPECIFIED. SEE LANDSCAPE PLAN AND OTHER PLANS AS APPLICABLE.
5. THE SEDIMENT BARRIER AND ORANGE CONSTRUCTION FENCING ARE ALSO A LIMIT OF WORK. ALL AREAS OUTSIDE THE LIMIT ARE TO BE LEFT UNDISTURBED. DURING THE SITE WORK, ALL PERSONS AND EQUIPMENT SHALL STAY OUT OF THESE AREAS TO PRESERVE THE EXISTING VEGETATION AND SOIL COVER.

CONSTRUCTION ENTRANCE

1. AT THE START OF SITE WORK, A STONE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT THE ACCESS TO THE SITE FROM THE ROADWAY TO CONTROL THE TRACKING OF MUD OFF THE SITE. THE ENTRANCE SHALL BE MAINTAINED UNTIL THE SITE IS IN A STABILIZED CONDITION WHEN THE POSSIBILITY OF VEHICLES TRACKING MUD OFF SITE HAS BEEN ELIMINATED.
2. THE CONTRACTOR SHALL RELOCATE THE CONSTRUCTION ENTRANCE AS THE LOCATIONS CHANGE THROUGHOUT THE DURATION OF CONSTRUCTION.
3. THE CONTRACTOR SHALL SWEEP THE ADJACENT ROADWAYS WHEN MUD, DUST, DIRT, DEBRIS, ETC. HAS SHOWN SIGNS OF BUILDUP ON THE ROADWAYS AT THE ENTRANCE OF THE SITE. THE CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO THIS MATTER AND IMMEDIATE ATTENTION IS ALWAYS REQUIRED.

DEWATERING OF EXCAVATIONS

1. DISCHARGE FROM DEWATERING PUMPS OR TEMPORARY TRENCH OR EXCAVATION DRAINS SHALL NOT BE DISCHARGED DIRECTLY TO THE ON–SITE DRAINAGE SYSTEM OR WETLAND RESOURCE AREAS. DISCHARGES SHALL BE DIRECTED TO A TREATMENT SYSTEM CONSISTING OF A SEDIMENT BASIN, STRAW BALE SEDIMENT BASIN, FILTER BAG SYSTEM OR OTHER APPROVED METHOD TO FILTER THE DISCHARGE WATER AND PREVENT EROSION.
2. ALL DEWATERING DISCHARGES SHALL COMPLY WITH THE MUNICIPAL REQUIREMENTS, UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, MASSACHUSETTS DEP AND OTHER APPROPRIATE AGENCIES.
3. UNDER NO CIRCUMSTANCE SHALL DEWATERING DRAINAGE BE DISCHARGED INTO A SANITARY SEWER.

SOIL STOCKPILES

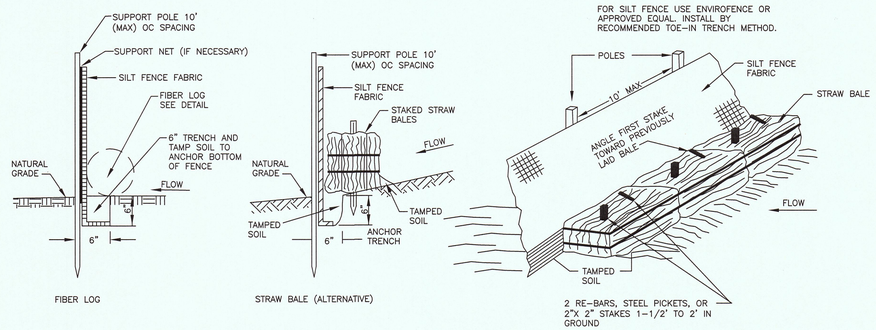
1. STOCKPILES OF SOIL MATERIALS SHALL BE PLACED WITHIN AREAS THAT ARE PROTECTED BY SEDIMENT BARRIER AS SHOWN ON THIS PLAN, OR SHALL BE SURROUNDED BY PROPER SILT FENCING, FIBER LOGS, OR STAKED STRAW BALES.
2. STOCKPILES THAT ARE TO BE IN PLACE FOR EXTENDED PERIODS OF TIME (MORE THAN 30 DAYS) SHALL BE COVERED OR OTHERWISE TEMPORARILY STABILIZED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES.

CATCH BASIN INLET PROTECTION

1. CATCH BASINS WITHIN THE WORK AREA OR THAT WILL RECEIVE RUNOFF FROM THE WORK AREA SHALL BE PROTECTED WITH A SILT SACK AND OR OTHER APPROVED INSTALLATION TO MINIMIZE THE SEDIMENT LOAD TO THE BASIN.

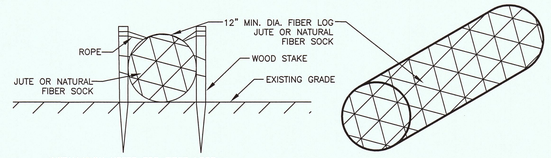
DUST CONTROL

1. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES DURING SITE WORK TO MINIMIZE WIND BLOWN DUST FROM EXPOSED SOIL SURFACES. MEASURES INCLUDE BUT ARE NOT LIMITED TO:
   - SPRINKLING WATER ON EXPOSED SURFACES
   - APPLICATION OF TEMPORARY COVER SUCH AS HYDRO MULCH AND TACIFIER, STRAW MATTING, JUTE NETTING ETC.
   - USE OF CALCIUM CHLORIDE ON EXPOSED SURFACES



PERIMETER EROSION CONTROLS
STAKED FIBER LOG/STRAW BALE AND SILT FENCE SEDIMENT BARRIER DETAIL

(NO SCALE)

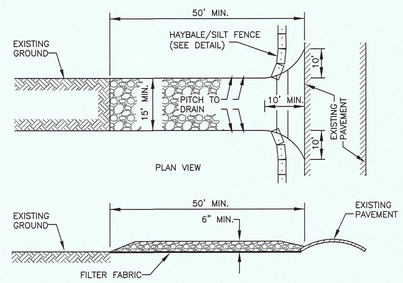


INSTALLATION NOTES FOR FIBER LOGS:

1. LAY THE FIBER LOG AT THE UPHILL BASE OF THE SILT FENCE.
2. INSTALL APPROXIMATELY 4–6 WOOD STAKES THROUGH THE TWINE/NETTING ALONG THE FIBER LOG AS NEEDED TO HOLD THE LOG IN PLACE.
3. DRIVE THE STAKE INTO THE GROUND DEEP ENOUGH TO HOLD THE LOG.
4. IN PAVED AREAS, SECURE FIBER LOG WITH CONCRETE BLOCKS OR SAND BAGS.
5. THE FILLING OF THE FIBER LOG MAY BE SHREDDED STRAW, COIR, COMPOST OR OTHER APPROVED MATERIAL.
6. FIBER LOG SHALL BE 12 INCHES (MIN) IN DIAMETER UNLESS OTHERWISE NOTED ON THE PLANS.

FIBER LOG DETAIL

(NO SCALE)

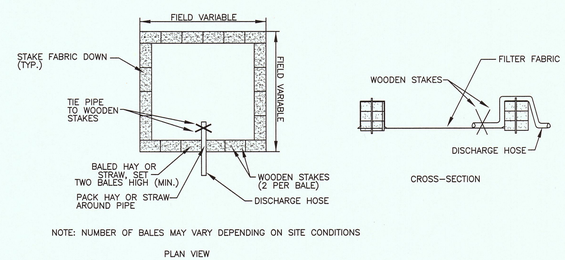


CONSTRUCTION SPECIFICATIONS:

1. STONE SIZE – USE 1 ½" TO 3 ½" WASHED, ANGULAR STONE. (SEE SPECIFICATIONS)
2. THICKNESS – NOT LESS THAN SIX (6) INCHES.
3. WIDTH – FIFTEEN (15) FEET MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
4. FILTER FABRIC – SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. USE MIRAFI HP–370 OR EQUAL.
5. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS–OF WAY MUST BE REMOVED IMMEDIATELY.
6. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED.

CONSTRUCTION TRACKING PAD DETAIL

(NO SCALE)



DEWATERING OF EXCAVATIONS NOTES:
1. DISCHARGE FROM DEWATERING PUMPS OR TEMPORARY TRENCH OR EXCAVATION DRAINS SHALL NOT DISCHARGE DIRECTLY TO WETLANDS OR EXISTING DRAIN SYSTEMS. THE DISCHARGES SHALL BE DIRECTED INTO A CONSTRUCTED SEDIMENT BASIN OR A STRAW BALE SETTLING BASIN.

STRAW BALE SETTLING BASIN DETAIL

(NO SCALE)

SITE PLAN REVIEW
UNDER SECTIONS VI.F.2.b.1 and VI.F.2.b.3
FRAMINGHAM PLANNING BOARD:

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DATE SIGNED: .....

RCS LEARNING CENTER

82 EDMANDS ROAD
874 EDGELL ROAD RR
FRAMINGHAM, MASSACHUSETTS 01701

ASSESSORS: MAP 372, BLOCK, 120 LOT 31
MAP 372, BLOCK, 120 LOT 32

PREPARED FOR:

RCS BEHAVIORAL & EDUCATIONAL CONSULTING, LLC

6 STRATHMORE ROAD
NATICK, MASSACHUSETTS 01760

SCHOFIELD BROTHERS LLC
ENGINEERING ◆ SURVEYING ◆ PLANNING ◆ GIS
1071 WORCESTER ROAD
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WWW.SCHOFIELDBROS.COM

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COMMONWEALTH OF MASSACHUSETTS
BERT E. COREY
CIVIL
No. 48423
REGISTERED PROFESSIONAL ENGINEER
3/21/16

NO.	APP	DATE	DESCRIPTION

DATE: MARCH 21, 2016

SCALE: AS SHOWN

DRAFTED:	CHECKED:	APPROVED:
JAL/KMR	BEC	BEC

EROSION CONTROL NOTES AND DETAILS

SHEET: 13 OF 20

PROJECT NO.: 24800

CE-13

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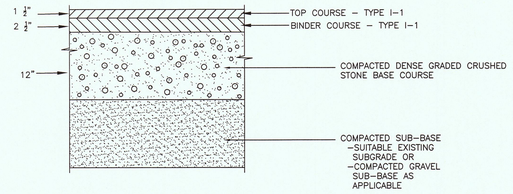
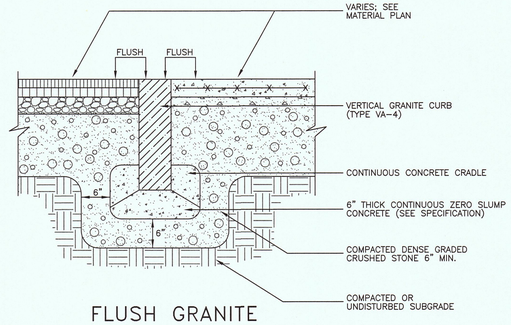


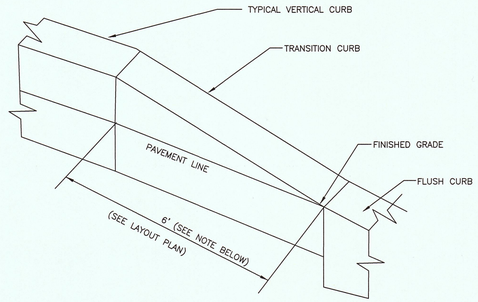
ASPHALT PAVEMENT DETAIL

(NO SCALE)



FLUSH GRANITE CURB DETAIL

(NO SCALE)



NOTE: LENGTH OF TRANSITION MAY NEED TO BE LONGER THAN 6 FEET IN CERTAIN SITUATIONS TO MEET ADA AND MAAB REQUIREMENTS. CONTRACTOR SHALL DETERMINE THE REQUIRED LENGTH TO MEET GRADES AS REQUIRED.

VERTICAL GRANITE TRANSITIONAL CURB DETAIL

(NO SCALE)

SITE PLAN REVIEW
UNDER SECTIONS VI.F.2.b.1 and VI.F.2.b.3
FRAMINGHAM PLANNING BOARD:

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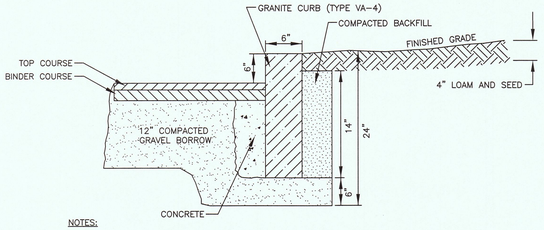
DATE SIGNED: .....

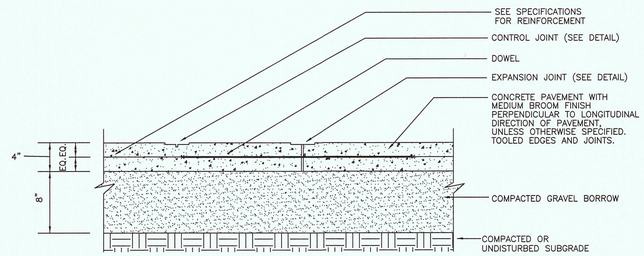


NOTES:

1. CURB INSTALLATION ALONG EXISTING ROAD PAVEMENT SHALL BE SAW CUT AND PATCHED WITH A 2-1/2" BITUMINOUS 3/4" GRADE BINDER COURSE, AND TOPPED WITH A 1-1/2" WEAR COURSE OF TYPE "I". THE CUT JOINT SHALL BE THOROUGHLY SEALED WITH ASPHAULT EMULSION AND SAND.
2. COMPACTED GRAVEL BORROW TO CONFORM TO MASSACHUSETTS HIGHWAY DEPARTMENT (MHD) M1.03.0 TYPE C (MAX. DIA. 2") COMPACTED IN ONE LIFT.
3. GRANITE CURB INSTALLATION TO BE PER MHD SECTION 501 AND THE LATEST FRAMINGHAM HIGHWAY DEPARTMENT STANDARDS.
4. CONCRETE TO BE AIR ENTRAINED CLASS D CONFORMING TO MHD M4.02.00.
5. GROUTING OF CURB JOINTS TO BE NON-SHRINK GROUTING CONFORMING TO ASTM C-827.

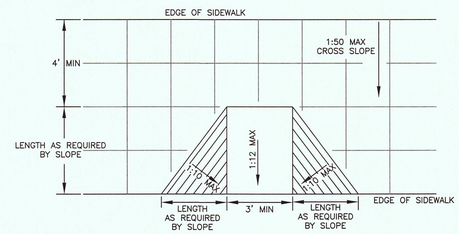
GRANITE CURB AND PAVEMENT DETAIL

(NO SCALE)



CONCRETE SIDEWALK DETAIL

(NO SCALE)

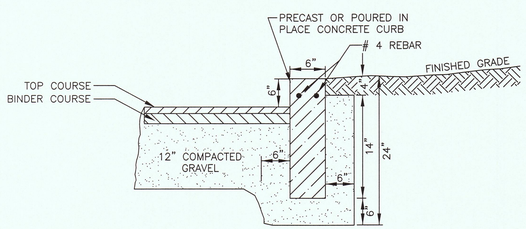


PLAN VIEW

NOTES:
1. THE DIMENSIONS SHOWN ARE MINIMUM VALUES AND THE SLOPES SHOWN ARE MAXIMUM VALUES AS REQUIRED BY LAW.
2. MAXIMUM CROSS SLOPE FOR ANY PART OF THE SIDEWALK IS ALWAYS 1:50.
3. PORTLAND CEMENT CONCRETE RAMPS ARE TO BE TEXTURED BY BROOMING IN A DIRECTION PARALLEL TO THE LENGTH OF THE RAMP.
4. IN NO CASE ARE THE RAMPS TO BE PLACED BEHIND THE STOP LINE.
5. CURBCUTS ARE REQUIRED AT DRIVEWAYS INTERSECTING SIDEWALKS WHEN THE DRIVEWAY HAS CURBS.
6. TRANSITIONS SHALL BE FLUSH OR FREE OF CHANGES IN LEVEL GREATER THAN HALF AN INCH.
7. ADJOINING GUTTERS OR ADJACENT ROAD SURFACES SHALL NOT HAVE A SLOPE GREATER THAN 1:20.
8. GRADING AND DRAINAGE SHALL BE DESIGNED TO MINIMIZE POOLING OF WATER, ACCUMULATION OF ICE, OR FLOW OF WATER ACROSS THE BASE OF THE CURB CUT.

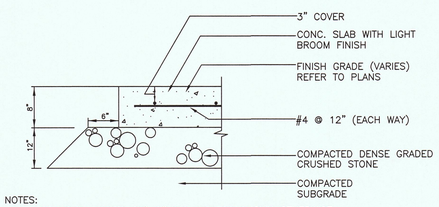
CURB CUT DETAIL

(FOR SIDEWALK, WITH FLARED SIDES)
(NO SCALE)



CONCRETE CURB DETAIL

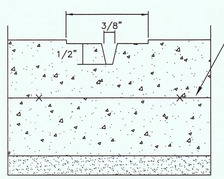
(NO SCALE)



NOTES:
1. EXPANSION JOINTS 20'-0" O.C. UNLESS SHOWN OTHERWISE.
2. CONTROL JOINTS 5'-0" O.C. UNLESS SHOWN OTHERWISE.
3. TOOLED EDGES AND JOINTS, ALL PANELS.
4. WHERE SAWCUT JOINT IS REQUIRED, DEPTH TO BE 1 1/8"
5. WHERE EXPANSION JOINT ABUTS WALL OR OTHER VERTICAL SURFACE, DELETE EXPANSION SLEEVE AND DOWEL.
6. ALL TOOL MARKS ARE TO BE SMOOTHED OUT BY A LIGHT BROOM FINISH AFTER APPLICATION.

CONCRETE PAVEMENT DETAIL (VEHICULAR)

(NO SCALE)

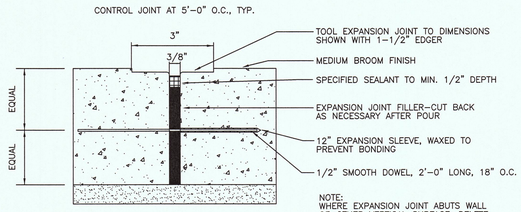


WELDED WIRE FABRIC 6x6 W2.9 x W2.9 REINFORCEMENT PER ASTM A185

INSTALLATION NOTES:

1. EXPANSION JOINTS 20'-0" O.C. UNLESS SHOWN OTHERWISE.
2. CONTROL JOINTS 5'-0" O.C. UNLESS SHOWN OTHERWISE.
3. TOOLED EDGES AND JOINTS, ALL PANELS.
4. WHERE SAWCUT JOINT IS REQUIRED, DEPTH TO BE 1/2".

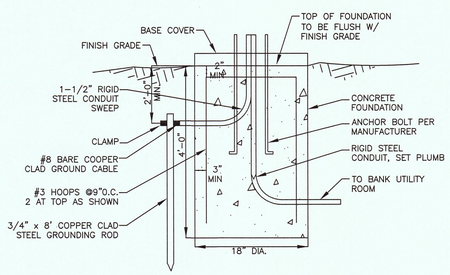
CONTROL JOINT AT 5'-0" O.C., TYP.



NOTE:
WHERE EXPANSION JOINT ABUTS WALL OR OTHER VERTICAL SURFACE, DELETE EXPANSION SLEEVE AND DOWEL.

CONCRETE SIDEWALK EXPANSION AND CONTROL JOINTS DETAIL

(NO SCALE)



LIGHT POLE FOUNDATION DETAIL

(NO SCALE)

RCS LEARNING CENTER

82 EDMANDS ROAD
874 EDGELL ROAD RR
FRAMINGHAM, MASSACHUSETTS 01701

ASSESSORS: MAP 372, BLOCK, 120 LOT 31
MAP 372, BLOCK, 120 LOT 32

PREPARED FOR:

RCS BEHAVIORAL & EDUCATIONAL CONSULTING, LLC

6 STRATHMORE ROAD
NATICK, MASSACHUSETTS 01760

SCHOFIELD BROTHERS LLC
ENGINEERING ◆ SURVEYING ◆ PLANNING ◆ GIS
1071 WORCESTER ROAD
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COMMONWEALTH OF MASSACHUSETTS
BERT E. COREY
CIVIL
No. 48423
REGISTERED PROFESSIONAL ENGINEER
3/21/16

NO.	APP	DATE	DESCRIPTION

DATE: MARCH 21, 2016

SCALE: AS SHOWN

DRAFTED:	CHECKED:	APPROVED:
JAL/KMR	BEC	BEC

SITE DETAILS #1

SHEET: 14 OF 20

PROJECT NO.: 24800

CE-14

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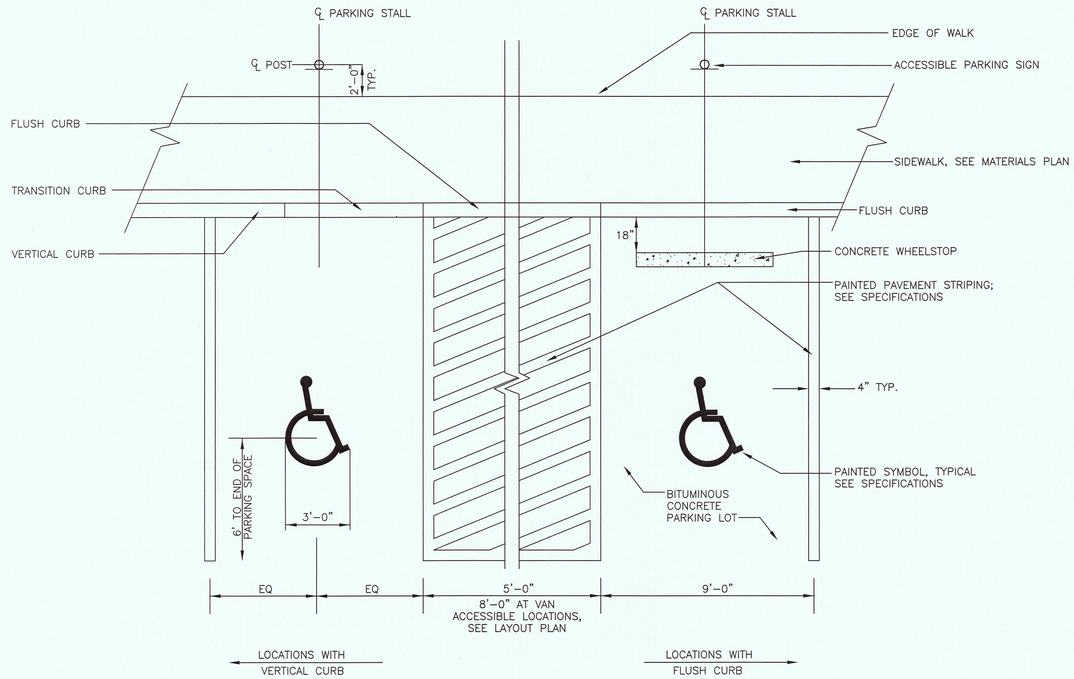
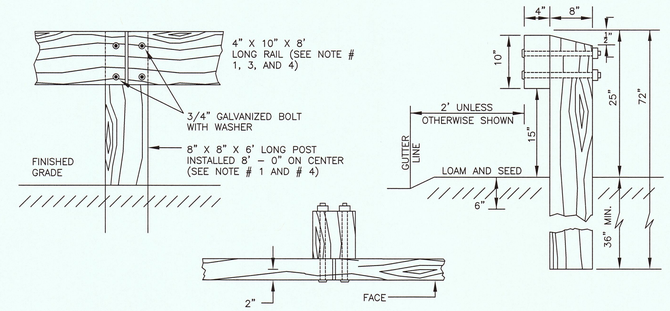


ACCESSIBLE PARKING STALL

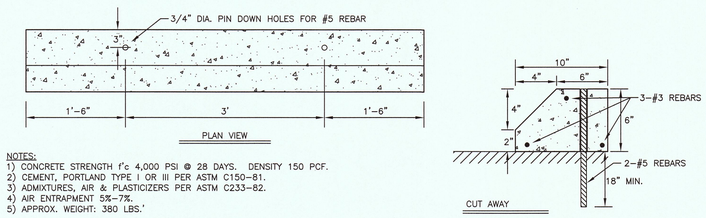
(NO SCALE)



NOTES:
1. POSTS SHALL BE INSTALLED 36" MIN. DOWN FROM FINISHED GRADE.
2. REFLECTORS TO BE INSTALLED MIDWAY BETWEEN POST LOCATIONS.
3. ALL TIMBER MATERIAL SHALL BE SELECT STRUCTURAL DOUGLAS FIR OR SOUTHERN YELLOW PINE, PRESSURE TREATED WITH ALKALINE COPPER QUATERNARY (ACQ).
4. ENDS OF GUARD RAILS HAVE A TRANSITION TO FINISHED GROUND LEVEL.

WOOD GUARD RAIL DETAIL

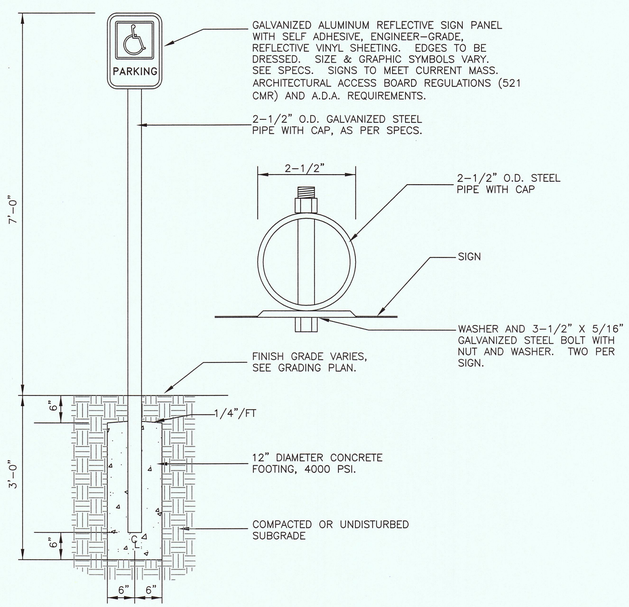
(NO SCALE)



NOTES:
1) CONCRETE STRENGTH f'c 4,000 PSI @ 28 DAYS. DENSITY 150 PCF.
2) CEMENT, PORTLAND TYPE I OR III PER ASTM C150-81.
3) ADMIXTURES, AIR & PLASTICIZERS PER ASTM C233-82.
4) AIR ENTRAPMENT 5%-7%.
5) APPROX. WEIGHT: 380 LBS.'

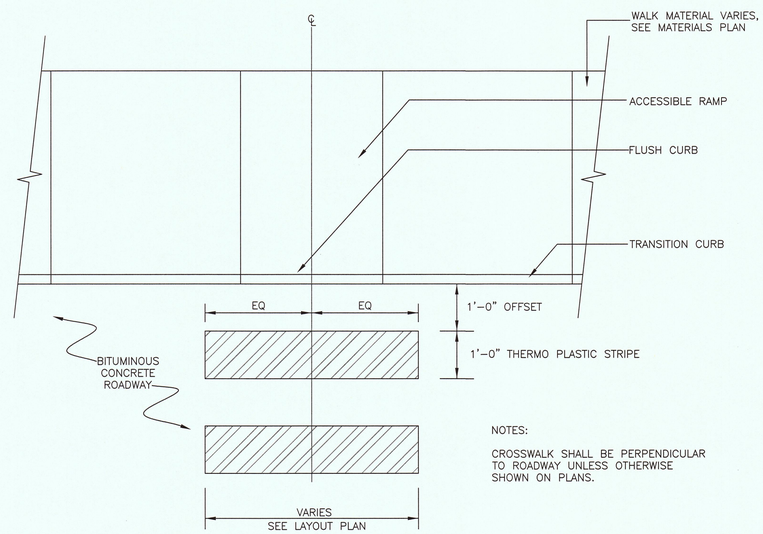
6' STANDARD CONCRETE WHEEL STOP DETAIL

(NO SCALE)



SIGN POST DETAIL

(NO SCALE)



NOTES:

CROSSWALK SHALL BE PERPENDICULAR TO ROADWAY UNLESS OTHERWISE SHOWN ON PLANS.

PAINTED PEDESTRIAN CROSSWALK

(NO SCALE)

SITE PLAN REVIEW
UNDER SECTIONS VI.F.2.b.1 and VI.F.2.b.3
FRAMINGHAM PLANNING BOARD:

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DATE SIGNED: .....

RCS LEARNING CENTER

82 EDMANDS ROAD
874 EDGELL ROAD RR
FRAMINGHAM, MASSACHUSETTS 01701

ASSESSORS: MAP 372, BLOCK, 120 LOT 31
MAP 372, BLOCK, 120 LOT 32

PREPARED FOR:

RCS BEHAVIORAL & EDUCATIONAL CONSULTING, LLC

6 STRATHMORE ROAD
NATICK, MASSACHUSETTS 01760

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COMMONWEALTH OF MASSACHUSETTS
BERT E. COREY
CIVIL
No. 48423
REGISTERED PROFESSIONAL ENGINEER
3/21/16

NO.	APP	DATE	DESCRIPTION

DATE: MARCH 21, 2016

SCALE: AS SHOWN

DRAFTED:	CHECKED:	APPROVED:
JAL/KMR	BEC	BEC

SITE DETAILS #2

SHEET: 15 OF 20

PROJECT NO.: 24800

CE-15

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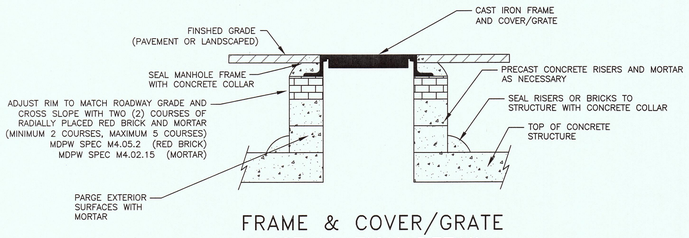
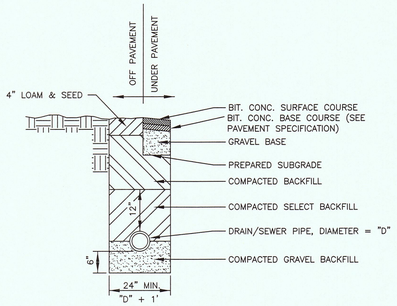


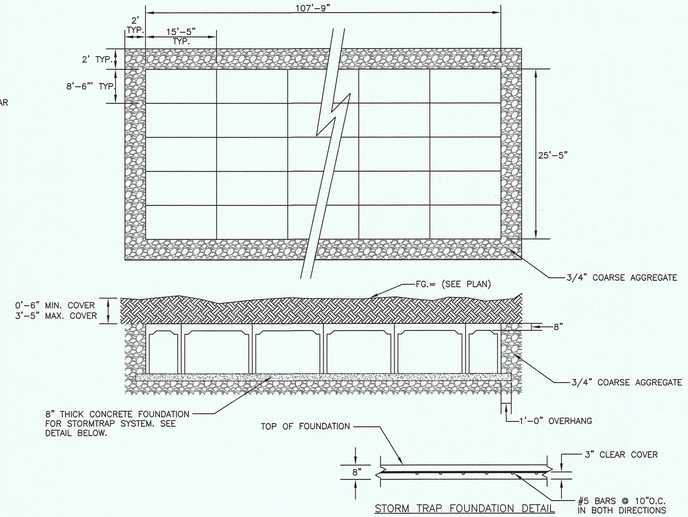
FRAME & COVER/GRATE INSTALLATION DETAIL

(NO SCALE)



TYPICAL DRAIN PIPE BEDDING DETAIL

(NO SCALE)



NOTES:

1. ALL TOPSOIL, SUBSOIL AND DELETERIOUS MATERIAL, IF ANY, MUST BE EXCAVATED AND REMOVED BELOW THE TOP ELEVATION OF THE CHAMBERS, AND TO A DISTANCE OF 5 FEET FROM ALL SIDES OF THE LEACHING GALLEY. EXCAVATE DOWN TO 6 INCHES BELOW THE SURFACE OF THE NATURAL PERMEABLE SOIL. BACKFILL AS REQUIRED WITH CLEAN GRAVEL OR SANDFILL MATERIAL, FREE FROM FINES, CLAY, ORGANIC MATTER, AND LARGE BOULDERS, MEETING TITLE 5 SAND FILL SPECIFICATION 310 CMR 15.255.

2. ALL WASHED STONE MUST HAVE LESS THAN 0.2 PERCENT MATERIAL FINER THAN A NUMBER 200 SIEVE AS DETERMINED BY THE A.A.S.T.H.O. TEST METHODS T-11 AND T-27 (LATEST EDITION).

3. USE STORM TRAP PRECAST CONCRETE MODULAR STORM WATER DETENTION BASIN. USE MODEL STANDARD 5'-0" SINGLETRAP TYPE I. SEE MANUFACTURER FOR SPECIFICATIONS AND INSTALLATION DETAILS.

4. SEE PLAN FOR LOCATION OF ACCESS MANHOLES.

5. TOPSOIL AND SUBSOIL TO BE REMOVED. PROPOSED SYSTEM TO BE CONSTRUCTED UPON SUBSTRATUM "C-LAYER" THAT HAS A SOIL TEXTURE OF LOAMY SAND.

DETENTION BASIN #2 DETAIL

SITE PLAN REVIEW
UNDER SECTIONS VI.F.2.b.1 and VI.F.2.b.3
FRAMINGHAM PLANNING BOARD:

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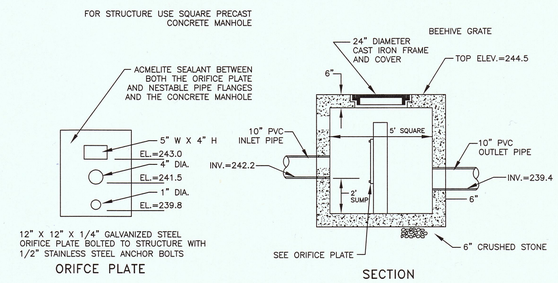
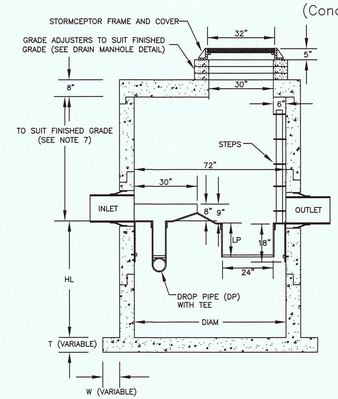
DATE SIGNED: .....



OUTLET CONTROL STRUCTURE #2 DETAIL

(NO SCALE)



NOTE : VARIABLE BASE SLAB WIDTH DEPENDENT ON BASE SLAB THICKNESS

Stormceptor® Specifications
(Concrete – Disc Design)

FLOWS AND CAPACITIES*

MODEL	DROP/RISER PIPE (LP) (in.)	MAX. TREATED FLOW RATE (gpm)**	SEDIMENT CAPACITY (ft3)	OIL CAPACITY (US gal)	TOTAL CAPACITY (US gal)
STC 900	16	285	75	280	950
STC 1200	16	285	115	280	1230
STC 1800	16	285	195	280	1830
STC 2400	44	475	180	880	2495
STC 3600	44	475	350	880	3750
STC 4800	44	800	465	1025	5020
STC 6000	44	800	610	1025	6095
STC 7200	44	1110	725	1102	7415

* APPROXIMATE
** WITHOUT BY-PASSING

DIMENSIONS *

MODEL	DIAM (ft)	DROP PIPE DIAM. (in) (DP)	HL (in)	T ** (in)	W ** (in)	
STC 900	6	6	55	8	8	
STC 1200	6	6	71	8	8	
STC 1800	6	6	105	8	8	
STC 2400	8	8	96	10	0	UNIT #1 & UNIT #2
STC 3600	8	8	136	10	0	
STC 4800	10	10	126	12	0	
STC 6000	10	10	148	12	0	
STC 7200	12	12	134	14	0	

* APPROXIMATE
** MAXIMUM VALUES

NOTES:

1. THE STORMCEPTOR® IS PROTECTED BY U.S. PATENT NO. 4,985,148.

2. CAST IRON FRAME & COVER TO BE APPROVED BY STORMCEPTOR CORPORATION. "STORMCEPTOR" TO BE EMBOSSED ON COVER.

3. BEDDING, BACKFILL AND GENERAL INSTALLATION REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER AND A PROFESSIONAL ENGINEER BASED ON SITE SPECIFIC SOILS CONDITIONS, SUBJECT TO THE APPROVAL OF THE REGULATORY AGENCIES.

4. SIZING OF THE STORMCEPTOR® SHALL BE IN ACCORDANCE WITH THE GUIDELINES PROVIDED BY STORMCEPTOR CORPORATION, SUBJECT TO THE APPROVAL OF THE REGULATORY AGENCIES.

5. THE STORMCEPTOR® SHOULD BE MAINTAINED ANNUALLY AND/OR IMMEDIATELY FOLLOWING ANY KNOWN SPILLS.

6. THE STORMCEPTOR® CONFORMS TO ASTM C 478 DESIGN SPECIFICATIONS / STANDARDS.

7. MINIMUM NUMBER OF STEPS TO BE USED IN THE ACCESS WAY DEPENDS UPON LOCAL REQUIREMENTS.

8. COVER TO BE OFFSET 9" FROM ACCESS WALL ADJACENT TO 24" ø OUTLET RISER PIPE AND 6"ø VENT PIPE.

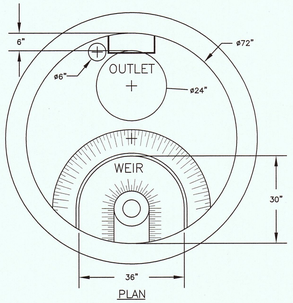
9. NON-SMOOTH WALL O.D. PIPE TO BE GROUTED IN PLACE .

10. FOR SINGLE INLET PIPE UNIT, PROVIDE 1" FALL FROM INLET TO OUTLET. FOR TWO INLET PIPE UNIT, PROVIDE 3" FALL FROM INLET TO OUTLET.

11. FURTHER TECHNICAL INFORMATION IS AVAILABLE FROM STORMCEPTOR CORPORATION 1 (800) 762-4703.

12. USE STORMCEPTOR MODEL NO. STC 2400 FOR UNITS #1 AND #2.

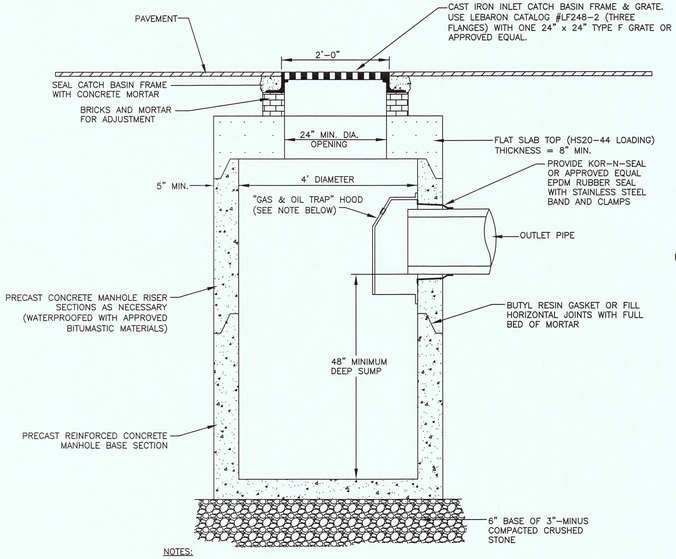
ENLARGED OUTLET DETAIL



PLAN

PARTICLE SEPARATOR® DETAIL (UNIT SHOWN IS STORMCEPTOR)

(NO SCALE)

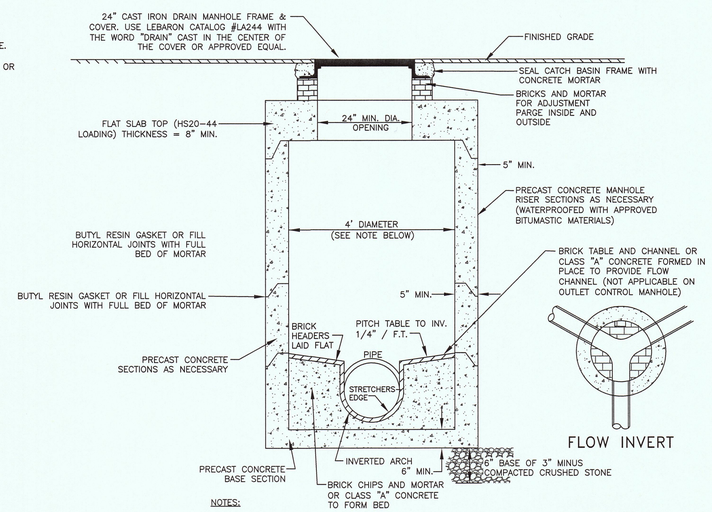


NOTES:

1. FOR OIL AND GAS TRAP HOOD, USE "THE SNOUT" BY BEST MANAGEMENT PRODUCTS, INC. OR APPROVED EQUAL. SIZE PER MANUFACTURER'S SPECIFICATIONS.

DEEP SUMP SLAB TOP CATCH BASIN DETAIL

(NO SCALE)



NOTES:

1. USE 5 FT. DIAMETER (OR LARGER WHERE NECESSARY) WHEN TOTAL INSIDE DEPTH EXCEEDS 12 FT. OR WHERE PIPE ARRANGEMENT WILL DAMAGE THE INTREGITY OF THE MANHOLE SECTIONS.

2. MANHOLE CONNECTION TO PIPE SHALL BE BY MEANS OF A FLEXIBLE RUBBER SLEEVE OR MORTAR. PROJECT PIPE 1" TO 3" INTO MANHOLE.

DRAIN MANHOLE DETAIL

(NO SCALE)

RCS LEARNING CENTER

82 EDMANDS ROAD
874 EDGELL ROAD RR
FRAMINGHAM, MASSACHUSETTS 01701

ASSESSORS: MAP 372, BLOCK, 120 LOT 31
MAP 372, BLOCK, 120 LOT 32

PREPARED FOR:

RCS BEHAVIORAL & EDUCATIONAL CONSULTING, LLC

6 STRATHMORE ROAD
NATICK, MASSACHUSETTS 01760

SCHOFIELD BROTHERS LLC
ENGINEERING ◆ SURVEYING ◆ PLANNING ◆ GIS
1071 WORCESTER ROAD
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508-879-0030
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COMMONWEALTH OF MASSACHUSETTS
BERT E. COREY
CIVIL
No. 48423
REGISTERED PROFESSIONAL ENGINEER
3/21/16

NO.	APP	DATE	DESCRIPTION

DATE: MARCH 21, 2016

SCALE: AS SHOWN

DRAFTED:	CHECKED:	APPROVED:
JAL/KMR	BEC	BEC

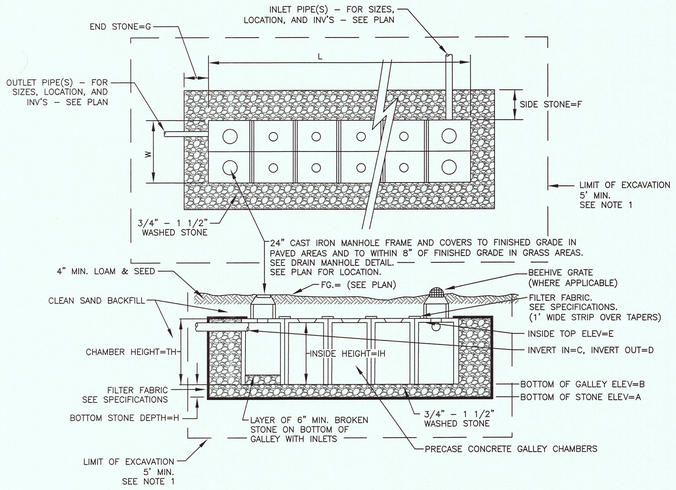
SITE DETAILS #3

SHEET: 16 OF 20

PROJECT NO.: 24800

CE-16

G:\Carlson Jobs\24800\Dwg\Sent\24800-2016-03-21-Site Plan\24800-Site Plan-Details.dwg



RECHARGER	A	B	C	D	E	F	G	H	L	W	TH	IH	MODEL FOR SIZING
3	246.5	247.0	248.5	248.4	249.5	2'	2'	6"	68'	12'	36"	30"	4x4x3
4	240.8	241.3	SEE PLAN	243.8	244.55	2'	2'	6"	58'	18'	51"	45"	4x4x4.25

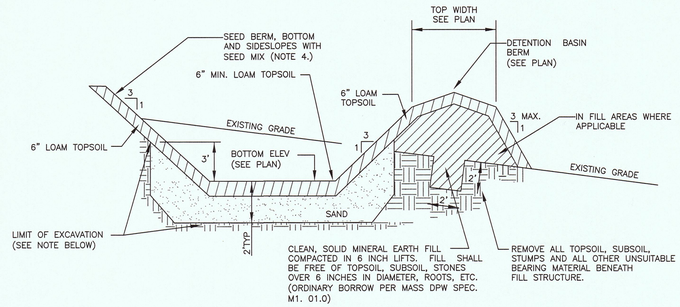
UNIT #3 = 3 ROWS OF 17 CHAMBERS (4' x 4' NOMINAL FOR EACH CHAMBER) SEE PLAN FOR LAYOUT AND DIMENSIONS

UNIT #4 = 4 ROWS OF 14 CHAMBERS (4' x 4' NOMINAL FOR EACH CHAMBER) SEE PLAN FOR LAYOUT AND DIMENSIONS

NOTES:
1. ALL TOPSOIL, SUBSOIL AND DELETERIOUS MATERIAL, IF ANY, MUST BE EXCAVATED AND REMOVED BELOW THE TOP ELEVATION OF THE LEACHING GALLEY, AND TO A DISTANCE OF 5 FEET FROM ALL SIDES OF THE LEACHING GALLEY. EXCAVATE DOWN TO 6 INCHES BELOW THE SURFACE OF THE NATURAL PERMEABLE SOIL. BACKFILL AS REQUIRED WITH CLEAN GRAVEL OR SANDFILL MATERIAL, FREE FROM FINES, CLAY, ORGANIC MATTER, AND LARGE BOULDERS, MEETING TITLE 5 SAND FILL SPECIFICATION 310 CMR 15.255.
2. ALL WASHED STONE MUST HAVE LESS THAN 0.2 PERCENT MATERIAL FINER THAN A NUMBER 200 SIEVE AS DETERMINED BY THE A.A.S.T.H.O. TEST METHODS T–11 AND T–27 (LATEST EDITION).
3. CONCRETE CHAMBERS SHALL BE DESIGNED FOR H–20 LOADING.

RECHARGER #3, #5 DETAIL

(NO SCALE)

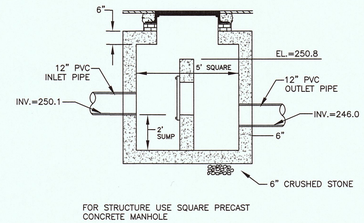


NOTES:

1. REMOVE EXISTING TOPSOIL AND SUBSOIL TO THE ELEVATION OF THE FINISHED SUBGRADE BELOW THE PROPOSED LOAM. IF THE NATURAL MATERIAL MEETS THE REQUIREMENTS FOR "SAND" IN NOTE 2 BELOW OR LOAMY SAND IN NOTE 3 BELOW, THE EXCAVATION IS NOT NECESSARY. OTHERWISE REMOVE THE UNSUITABLE SOIL TO THE DEPTHS SHOWN AND BACKFILL WITH THE MATERIAL PER NOTE 2 OR 3.
2. SAND SHALL CONSIST OF WELL DRAINING SOIL CONSISTING OF CLEAN SAND AND GRAVEL WITH LESS THAN 10% SILT AND CLAY WITH NOT MORE THAN 5 PERCENT CLAY. USDA TEXTURAL CLASS: ON-SITE SOIL MEETING THIS MAY BE USED.
3. LOAMY SAND SHALL CONSIST OF WELL DRAINING MINERAL SOIL CONSISTING OF 80 TO 90 PERCENT FINE TO MEDIUM SAND, AND 10 TO 20 PERCENT SILT AND CLAY WITH NOT MORE THAN 5 PERCENT CLAY. USDA TEXTURAL CLASS.
4. SEED MIX: NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS.
5. SEE LANDSCAPE DRAWINGS FOR OTHER PLANTINGS.

DETENTION BASIN #1 SECTION DETAIL

(NO SCALE)



OUTLET CONTROL STRUCTURE #3 DETAIL

(NO SCALE)

SITE PLAN REVIEW
UNDER SECTIONS VI.F.2.b.1 and VI.F.2.b.3
FRAMINGHAM PLANNING BOARD:

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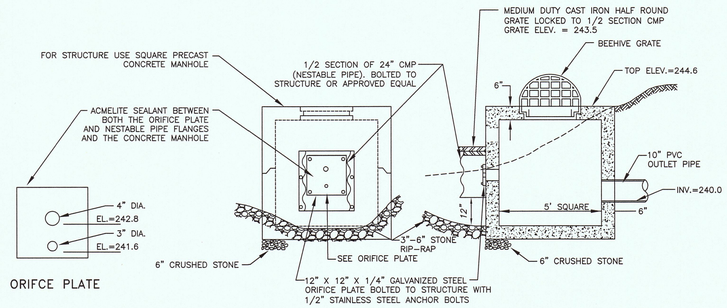
.....

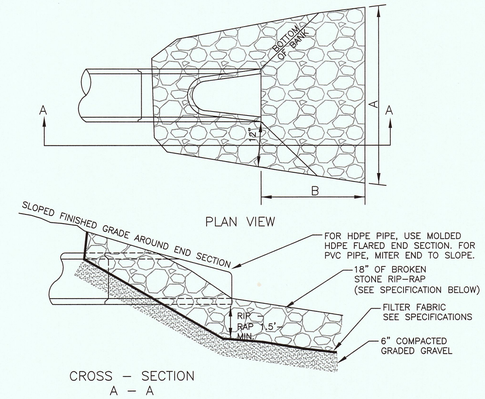
.....

DATE SIGNED: .....



OUTLET CONTROL STRUCTURE #1 DETAIL

(NO SCALE)



NOTE:

RIP–RAP SHALL CONSIST OF EVENLY GRADED 6" TO 9" ANGULAR BROKEN STONE, (AVG. STONE SIZE = 8") WITH A THICKNESS OF 18 INCHES. NOT MORE THAN 15 PERCENT OF THE STONE MAY BE SCATTERED SPALLS AND STONES LESS THAN 4" IN SIZE.

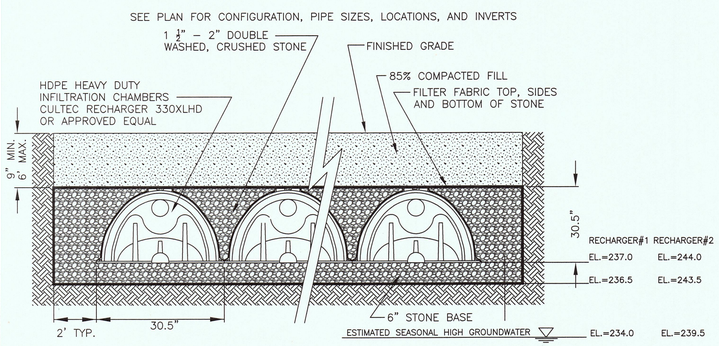
SIZE DESIGNATION REFERS TO MEAN SPHERICAL DIAMETER.

LENGTH OF RIP–RAP TO BE PER THIS DETAIL UNLESS OTHERWISE SHOWN ON THE PLANS.

PIPE SIZE (IN.)	A (MIN.) SEE PLAN	B (MIN.) SEE PLAN
12" OR LESS	6'	5'
15"	10'	6'

PIPE END SECTION WITH RIP – RAP APRON DETAIL

(NO SCALE)

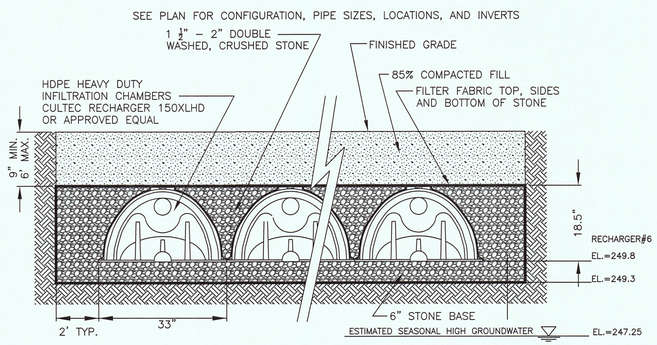


TYPICAL CROSS SECTION

NOTES:
1. CONFIGURATION SHOWN IS BASED ON RECHARGER 330XLHD BY CULTEC, INC. OF BROOKFIELD, CT. SIMILAR PRODUCTS BY OTHER MANUFACTURERS MAY REQUIRE DIFFERENT CONFIGURATION FOR EQUAL FUNCTION.
2. VOLUME CALCULATIONS BASED ON 40% STONE VOID.
3. ALL INFILTRATION UNITS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. REFER TO MANUFACTURER'S RECOMMENDED INSTALLATION GUIDES.
4. INSTALL 2'x2'x2" THICK CONCRETE SPLASH PADS AT ALL INLETS.
5. FILTER FABRIC SHALL BE MIRAFI 140N OR APPROVED EQUAL.
6. ALL TOPSOIL, SUBSOIL AND DELETERIOUS MATERIAL, IF ANY, MUST BE EXCAVATED AND REMOVED BELOW THE TOP ELEVATION OF THE LEACHING GALLEY, AND TO A DISTANCE OF 5 FEET FROM ALL SIDES OF THE LEACHING GALLEY. EXCAVATE DOWN TO 6 INCHES BELOW THE SURFACE OF THE NATURAL PERMEABLE SOIL. BACKFILL AS REQUIRED WITH CLEAN GRAVEL OR SANDFILL MATERIAL, FREE FROM FINES, CLAY, ORGANIC MATTER, AND LARGE BOULDERS, MEETING TITLE 5 SAND FILL SPECIFICATION 310 CMR 15.255.
7. ALL WASHED STONE MUST HAVE LESS THAN 0.2 PERCENT MATERIAL FINER THAN A NUMBER 200 SIEVE AS DETERMINED BY THE A.A.S.T.H.O. TEST METHODS T–11 AND T–27 (LATEST EDITION).

RECHARGER #1, #2 DETAIL

(NO SCALE)

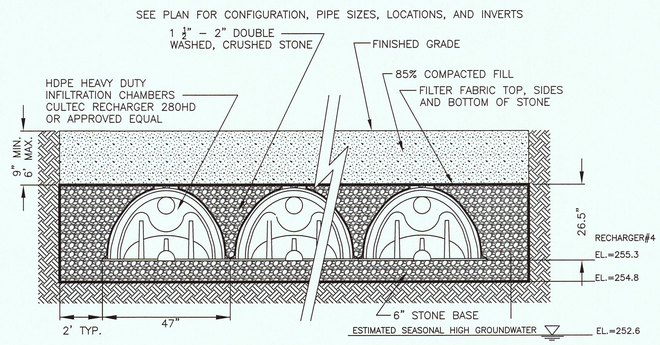


TYPICAL CROSS SECTION

NOTES:
1. CONFIGURATION SHOWN IS BASED ON RECHARGER 150XLHD BY CULTEC, INC. OF BROOKFIELD, CT. SIMILAR PRODUCTS BY OTHER MANUFACTURERS MAY REQUIRE DIFFERENT CONFIGURATION FOR EQUAL FUNCTION.
2. VOLUME CALCULATIONS BASED ON 40% STONE VOID.
3. ALL INFILTRATION UNITS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. REFER TO MANUFACTURER'S RECOMMENDED INSTALLATION GUIDES.
4. INSTALL 2'x2'x2" THICK CONCRETE SPLASH PADS AT ALL INLETS.
5. FILTER FABRIC SHALL BE MIRAFI 140N OR APPROVED EQUAL.
6. ALL TOPSOIL, SUBSOIL AND DELETERIOUS MATERIAL, IF ANY, MUST BE EXCAVATED AND REMOVED BELOW THE TOP ELEVATION OF THE LEACHING GALLEY, AND TO A DISTANCE OF 5 FEET FROM ALL SIDES OF THE LEACHING GALLEY. EXCAVATE DOWN TO 6 INCHES BELOW THE SURFACE OF THE NATURAL PERMEABLE SOIL. BACKFILL AS REQUIRED WITH CLEAN GRAVEL OR SANDFILL MATERIAL, FREE FROM FINES, CLAY, ORGANIC MATTER, AND LARGE BOULDERS, MEETING TITLE 5 SAND FILL SPECIFICATION 310 CMR 15.255.
7. ALL WASHED STONE MUST HAVE LESS THAN 0.2 PERCENT MATERIAL FINER THAN A NUMBER 200 SIEVE AS DETERMINED BY THE A.A.S.T.H.O. TEST METHODS T–11 AND T–27 (LATEST EDITION).

RECHARGER #6 DETAIL

(NO SCALE)



TYPICAL CROSS SECTION

NOTES:
1. CONFIGURATION SHOWN IS BASED ON RECHARGER 280HD BY CULTEC, INC. OF BROOKFIELD, CT. SIMILAR PRODUCTS BY OTHER MANUFACTURERS MAY REQUIRE DIFFERENT CONFIGURATION FOR EQUAL FUNCTION.
2. VOLUME CALCULATIONS BASED ON 40% STONE VOID.
3. ALL INFILTRATION UNITS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. REFER TO MANUFACTURER'S RECOMMENDED INSTALLATION GUIDES.
4. INSTALL 2'x2'x2" THICK CONCRETE SPLASH PADS AT ALL INLETS.
5. FILTER FABRIC SHALL BE MIRAFI 140N OR APPROVED EQUAL.
6. ALL TOPSOIL, SUBSOIL AND DELETERIOUS MATERIAL, IF ANY, MUST BE EXCAVATED AND REMOVED BELOW THE TOP ELEVATION OF THE LEACHING GALLEY, AND TO A DISTANCE OF 5 FEET FROM ALL SIDES OF THE LEACHING GALLEY. EXCAVATE DOWN TO 6 INCHES BELOW THE SURFACE OF THE NATURAL PERMEABLE SOIL. BACKFILL AS REQUIRED WITH CLEAN GRAVEL OR SANDFILL MATERIAL, FREE FROM FINES, CLAY, ORGANIC MATTER, AND LARGE BOULDERS, MEETING TITLE 5 SAND FILL SPECIFICATION 310 CMR 15.255.
7. ALL WASHED STONE MUST HAVE LESS THAN 0.2 PERCENT MATERIAL FINER THAN A NUMBER 200 SIEVE AS DETERMINED BY THE A.A.S.T.H.O. TEST METHODS T–11 AND T–27 (LATEST EDITION).

RECHARGER #4 DETAIL

(NO SCALE)

RCS LEARNING CENTER

82 EDMANDS ROAD
874 EDGELL ROAD RR
FRAMINGHAM, MASSACHUSETTS 01701

ASSESSORS: MAP 372, BLOCK, 120 LOT 31
MAP 372, BLOCK, 120 LOT 32

PREPARED FOR:

RCS BEHAVIORAL & EDUCATIONAL CONSULTING, LLC

6 STRATHMORE ROAD
NATICK, MASSACHUSETTS 01760

SCHOFIELD BROTHERS LLC
ENGINEERING ◆ SURVEYING ◆ PLANNING ◆ GIS
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508-879-0030
www.schofieldbros.com

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COMMONWEALTH OF MASSACHUSETTS
BERT E. COREY
CIVIL
No. 48423
REGISTERED PROFESSIONAL ENGINEER
3/21/16

NO.	APP	DATE	DESCRIPTION

DATE: MARCH 21, 2016

SCALE: AS SHOWN

DRAFTED:	CHECKED:	APPROVED:
JAL/KMR	BEC	BEC

SITE DETAILS #4

SHEET: 17 OF 20
PROJECT NO.: 24800

CE-17

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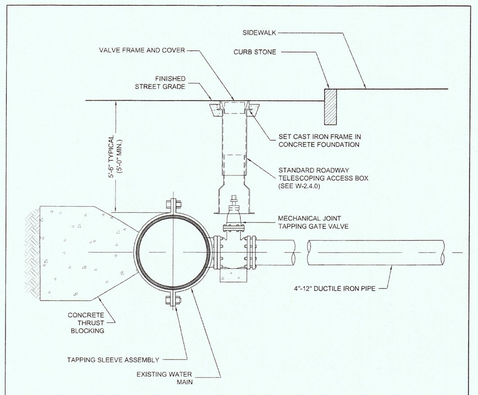


NOTES:

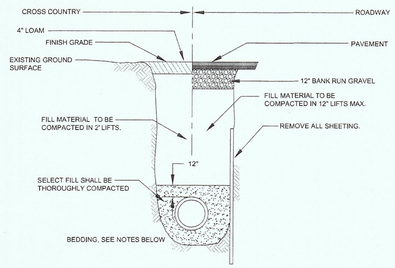
1. MAXIMUM TAPPING SLEEVE SHALL NOT BE GREATER THAN ½ DIAMETER OF CONNECTING MAIN.
2. MEGA LUG RESTRAINTS ON ALL MECHANICAL JOINTS.

NOT TO SCALE

TOWN OF FRAMINGHAM DEPARTMENT OF PUBLIC WORKS	TYPICAL CONNECTION (TAPPING SLEEVE)	DATE: FEB. 2010 / REV: 1	DETAIL NO. W-2.1.2

TYPICAL CONNECTION (TAPPING SLEEVE)

SOURCE: TOWN OF FRAMINGHAM



NOTE: 5'-0" MIN. COVER

NOTES:

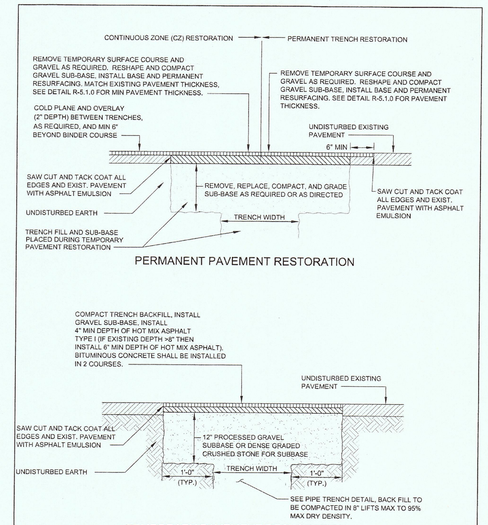
1. TOWN OF FRAMINGHAM MAY REQUIRE FLOWABLE FILL AT ITS DISCRETION.
2. FOR LOCATIONS WHERE LEDGE IS NOT ENCOUNTERED IN TRENCH, PIPE CAN LAY ON UNDISTURBED EARTH, OR ON SAND BEDDING CONSISTENT WITH AWWA GUIDELINES.
3. FOR LOCATIONS WHERE LEDGE IS ENCOUNTERED, SAND BEDDING SHALL BE MINIMUM OF 12" THICK UNDER PIPE.
4. FILL MATERIAL SHALL BE COMPACTED TO 95% PROCTOR DENSITY.

NOT TO SCALE

TOWN OF FRAMINGHAM DEPARTMENT OF PUBLIC WORKS	WATER MAIN TRENCH DETAIL	DATE: MARCH 2011 / REV: 2	DETAIL NO. W-2.3.0

WATER MAIN TRENCH DETAIL

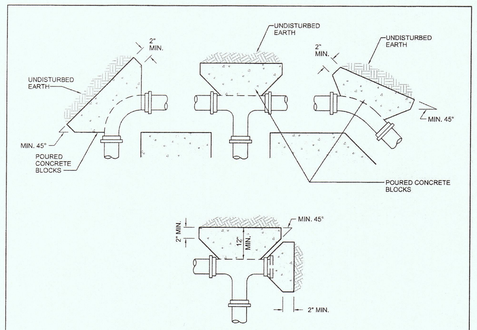
SOURCE: TOWN OF FRAMINGHAM



TOWN OF FRAMINGHAM DEPARTMENT OF PUBLIC WORKS	PAVEMENT DETAILS FOR TRENCH RESTORATION	DATE: MARCH 2011 / REV: 1	DETAIL NO. R-5.1.7

PAVEMENT DETAILS FOR TRENCH RESTORATION

SOURCE: TOWN OF FRAMINGHAM



PLAN VIEWS

NOTES:

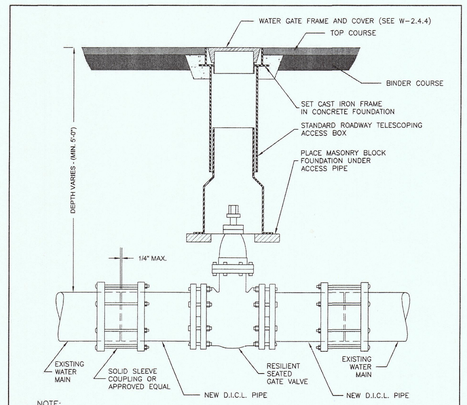
1. SPECIFIC THRUST BLOCK DESIGN SHALL CONFORM TO AWWA GUIDELINES.
2. PLACE 4 mil. POLYETHYLENE BETWEEN CONCRETE AND FITTING (CONCRETE SHALL NOT INTERFERE WITH JOINT).
3. MINIMUM CONCRETE THICKNESS SHALL BE 12 INCHES.
4. THRUST BLOCK ORIENTATION SHALL BE SUCH THAT THE CENTER OF THE FITTING CORRESPONDS WITH THE CENTER OF THE THRUST BLOCK.
5. THE MINIMUM ALLOWABLE ANGLE (EITHER VERTICAL OR HORIZONTAL) SHALL BE 45 DEGREES.

NOT TO SCALE

TOWN OF FRAMINGHAM DEPARTMENT OF PUBLIC WORKS	TYPICAL THRUST BLOCK DETAIL	DATE: SEPT. 2008 / REV: 0	DETAIL NO. W-2.2.2

TYPICAL THRUST BLOCK DETAIL

SOURCE: TOWN OF FRAMINGHAM



NOTE:

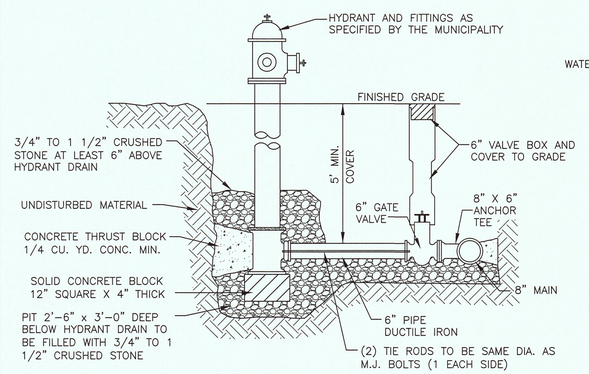
1. ALL EXCAVATION, BACKFILLING AND PAVING SHALL BE IN ACCORDANCE WITH THE TOWN OF FRAMINGHAM REQUIREMENTS.
2. WATER GATE COVER SHALL HAVE A MINIMUM HEIGHT OF FOUR (4) INCHES, BRAND NAME EJ GROUP (FORMERLY LEBARON FOUNDRY CO.) OR EQUAL.

NOT TO SCALE

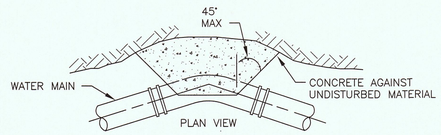
TOWN OF FRAMINGHAM DEPARTMENT OF PUBLIC WORKS	GATE VALVE	DATE: MARCH 2013 / REV: 2	DETAIL NO. W-2.4.0

GATE VALVE

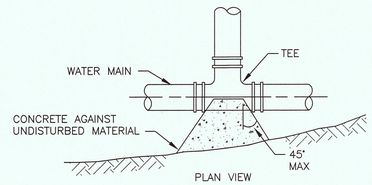
SOURCE: TOWN OF FRAMINGHAM



HYDRANT SETTING DETAIL



TYPICAL BEND THRUST BLOCK DETAIL



TYPICAL TEE THRUST BLOCK DETAIL

WATER INSTALLATION NOTES:

1. WATER MAINS SHALL BE X-INCH, CLASS-52 DUCTILE IRON PIPE.
2. WATER MAIN INSTALLATION, HYDRANTS, GATES, CONNECTIONS, ETC., SHALL BE IN CONFORMANCE WITH THE FRAMINGHAM WATER DEPARTMENT SPECIFICATIONS.
3. ALL FITTINGS AND GATES TO BE MECHANICAL JOINT.

WATER MAIN INSTALLATION DETAILS

(NO SCALE)

SITE PLAN REVIEW
UNDER SECTIONS VI.F.2.b.1 and VI.F.2.b.3
FRAMINGHAM PLANNING BOARD:

.....

.....

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.....

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DATE SIGNED: .....

RCS LEARNING CENTER

82 EDMANDS ROAD
874 EDGELL ROAD RR
FRAMINGHAM, MASSACHUSETTS 01701

ASSESSORS: MAP 372, BLOCK, 120 LOT 31
MAP 372, BLOCK, 120 LOT 32

PREPARED FOR:

RCS BEHAVIORAL & EDUCATIONAL CONSULTING, LLC

6 STRATHMORE ROAD
NATICK, MASSACHUSETTS 01760

SCHOFIELD BROTHERS LLC
ENGINEERING ◆ SURVEYING ◆ PLANNING ◆ GIS
1071 WORCESTER ROAD
FRAMINGHAM, MA 01701
508-879-0030
www.schofieldbros.com

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COMMONWEALTH OF MASSACHUSETTS
BERT E. COREY
CIVIL
No. 49423
REGISTERED PROFESSIONAL ENGINEER
3/21/16

NO.	APP	DATE	DESCRIPTION

DATE: MARCH 21, 2016

SCALE: AS SHOWN

DRAFTED:	CHECKED:	APPROVED:
JAL/KMR	BEC	BEC

SITE DETAILS #5

SHEET: 18 OF 20

PROJECT NO.: 24800

CE-18

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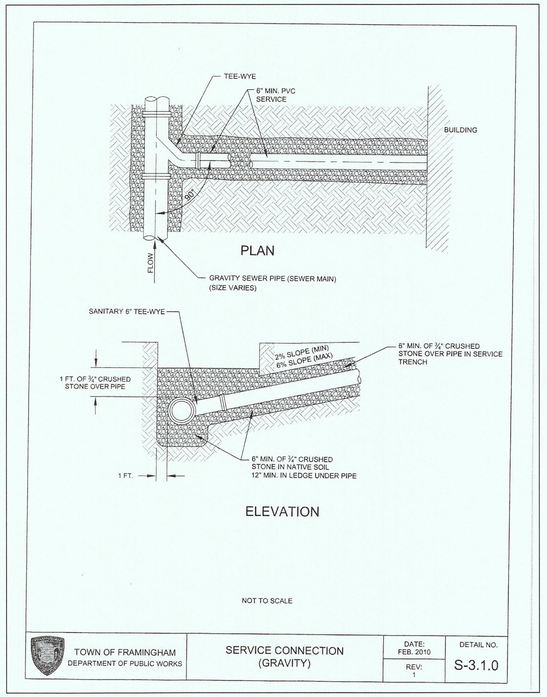
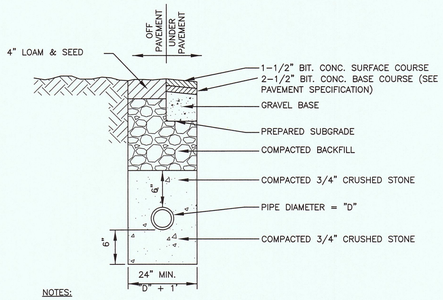


SEWER SERVICE CONNECTION

SOURCE: TOWN OF FRAMINGHAM



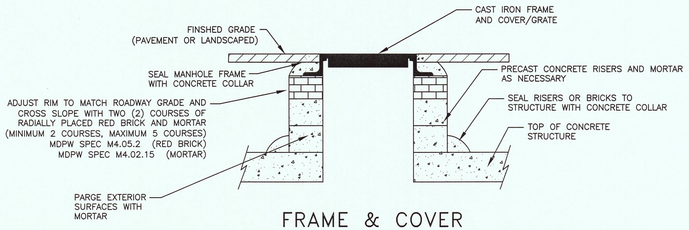
NOTES:

1. MATERIALS AND CONSTRUCTION METHODS TO CONFORM TO THE LATEST MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES AND THE TOWN OF FRAMINGHAM DEPARTMENT OF PUBLIC WORKS CONSTRUCTION STANDARDS AS APPLICABLE.

2. THE COMPACTED GRAVEL BASE SHALL CONFORM TO (MHD) M1.03.0 TYPE C (MAX. DIA. 2") TO BE PLACED IN TWO 6" LIFTS (AFTER COMPACTION TO 95% PROCTOR DENSITY).

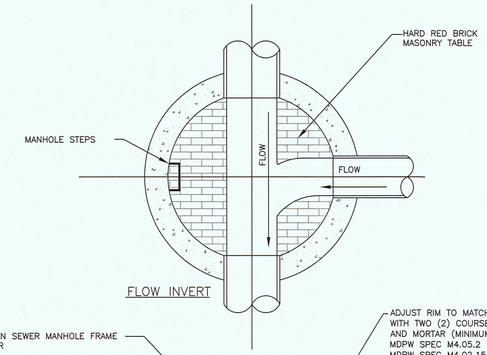
TYPICAL SEWER PIPE BEDDING DETAIL

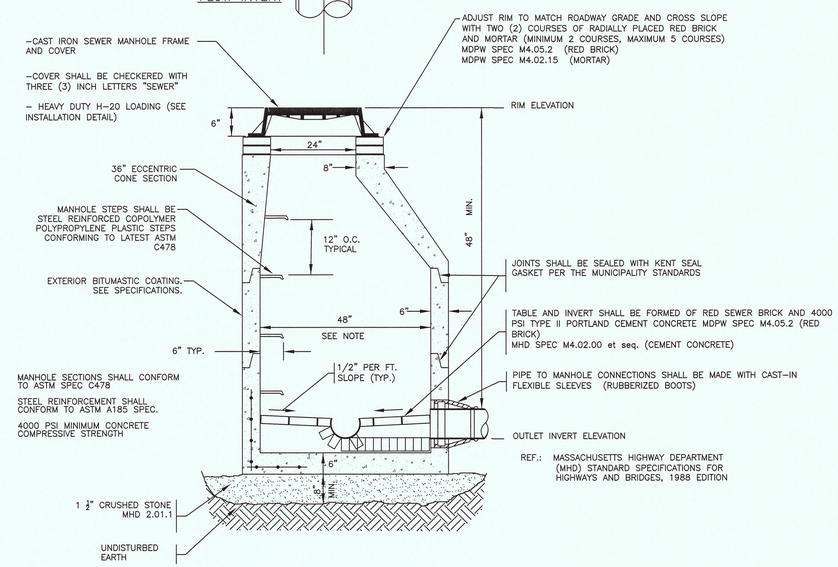
(NO SCALE)



FRAME & COVER INSTALLATION DETAIL

(NO SCALE)

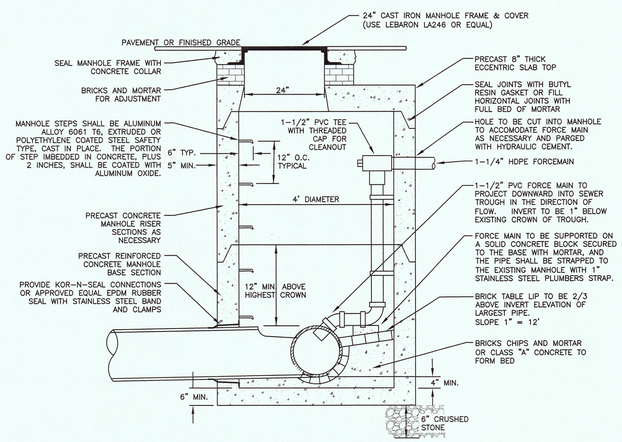




NOTE:
1. USE 5 FT. DIAMETER (OR LARGER WHERE NECESSARY) WHEN TOTAL INSIDE DEPTH EXCEEDS 12 FT. OR WHERE PIPE ARRANGEMENT WILL DAMAGE THE INTEGRITY OF THE MANHOLE SECTIONS. WALL THICKNESS TO BE 6" MINIMUM BELOW 10'.

TYPICAL SEWER MANHOLE DETAIL

(NO SCALE)



NOTE: ALL COMPONENTS SHALL BE FOR H-20 LOADING (MINIMUM).

SEWER MANHOLE #8 DETAIL

(NO SCALE)

SITE PLAN REVIEW
UNDER SECTIONS VI.F.2.b.1 and VI.F.2.b.3
FRAMINGHAM PLANNING BOARD:

.....

.....

.....

.....

.....

DATE SIGNED: .....

RCS LEARNING CENTER

82 EDMANDS ROAD
874 EDGELL ROAD RR
FRAMINGHAM, MASSACHUSETTS 01701

ASSESSORS: MAP 372, BLOCK, 120 LOT 31
MAP 372, BLOCK, 120 LOT 32

PREPARED FOR:

RCS BEHAVIORAL & EDUCATIONAL CONSULTING, LLC

6 STRATHMORE ROAD
NATICK, MASSACHUSETTS 01760

SCHOFIELD BROTHERS LLC
ENGINEERING ◆ SURVEYING ◆ PLANNING ◆ GIS
1071 WORCESTER ROAD
FRAMINGHAM, MA 01701
508-879-0030
www.schofieldbros.com

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COMMONWEALTH OF MASSACHUSETTS
BERT E. COREY
CIVIL
No. 48423
REGISTERED PROFESSIONAL ENGINEER
3/21/16

NO.	APP	DATE	DESCRIPTION

DATE: MARCH 21, 2016

SCALE: AS SHOWN

DRAFTED:	CHECKED:	APPROVED:
JAL/KMR	BEC	BEC

SITE DETAILS #6

SHEET: 19 OF 20

PROJECT NO.: 24800

CE-19

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SITE PLAN REVIEW
UNDER SECTIONS VI.F.2.b.1 and VI.F.2.b.3
FRAMINGHAM PLANNING BOARD:

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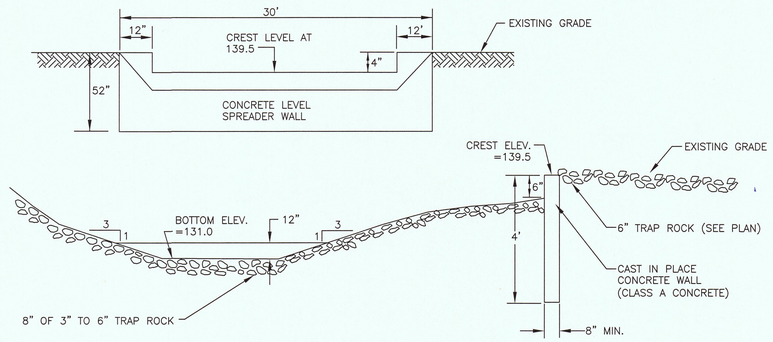
.....

DATE SIGNED: .....

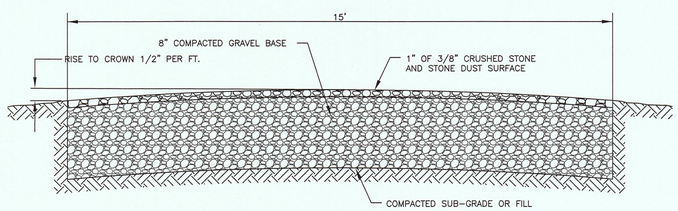


NOTE:

TRAP ROCK SHALL CONSIST OF EVENLY GRADED 6" TO 9" ANGULAR BROKEN STONE WITH NO MORE THAN 15% SCATTERED SPALLS LESS THAN 3" IN SIZE AND FREE OF FINES. SIZE DIMENSIONS REFER TO MEAN SPHERICAL DIAMTER.

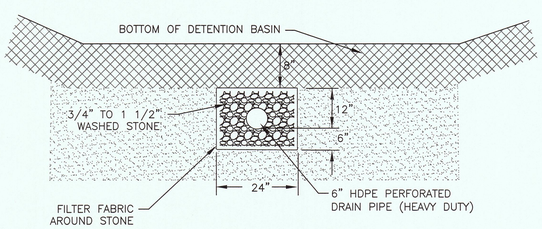
LEVEL SPREADER AND TRAP ROCK OUTFALL

(NO SCALE)



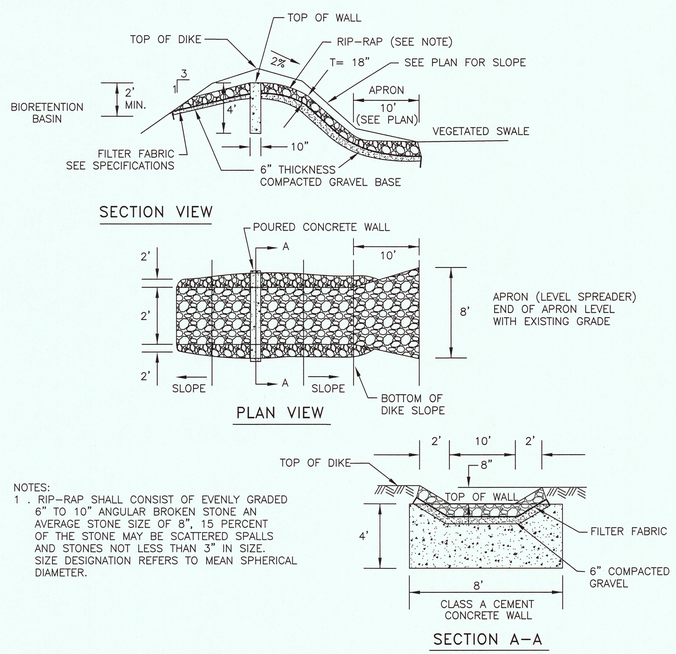
MAINTENANCE ACCESS

(NO SCALE)



DETENTION BASIN SUBDRAIN

(NO SCALE)



NOTES:
1 . RIP-RAP SHALL CONSIST OF EVENLY GRADED 6" TO 10" ANGULAR BROKEN STONE AN AVERAGE STONE SIZE OF 8", 15 PERCENT OF THE STONE MAY BE SCATTERED SPALLS AND STONES NOT LESS THAN 3" IN SIZE. SIZE DESIGNATION REFERS TO MEAN SPHERICAL DIAMETER.

SPILLWAY DETAIL

(NO SCALE)

RCS LEARNING CENTER

82 EDMANDS ROAD
874 EDGELL ROAD RR
FRAMINGHAM, MASSACHUSETTS 01701

ASSESSORS: MAP 372, BLOCK, 120 LOT 31
MAP 372, BLOCK, 120 LOT 32

PREPARED FOR:

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6 STRATHMORE ROAD
NATICK, MASSACHUSETTS 01760

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3/21/16

NO.	APP	DATE	DESCRIPTION

DATE: MARCH 21, 2016

SCALE: AS SHOWN

DRAFTED:	CHECKED:	APPROVED:
JAL/KMR	BEC	BEC

SITE DETAILS #7

SHEET: 20 OF 20

PROJECT NO.: 24800

CE-20

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