

SITE DEVELOPMENT PLANS FOR OVER 55 RESIDENTIAL DEVELOPMENT 470 BOSTON STREET TOPSFIELD, MA

OWNER\APPLICANT:
SARKIS DEVELOPMENT COMPANY
2 ELM SQUARE
ANDOVER, MA 01810
978.475.4055

ARCHITECT:
THE MZO GROUP
335 MAIN STREET, SUITE 201
STONEHAM, MA 02180
781.279.4446

LAND SURVEYOR & CIVIL ENGINEER
ALLEN & MAJOR ASSOCIATES, INC.
100 COMMERCE WAY
WOBURN, MA 01888-0118
781.935.6889

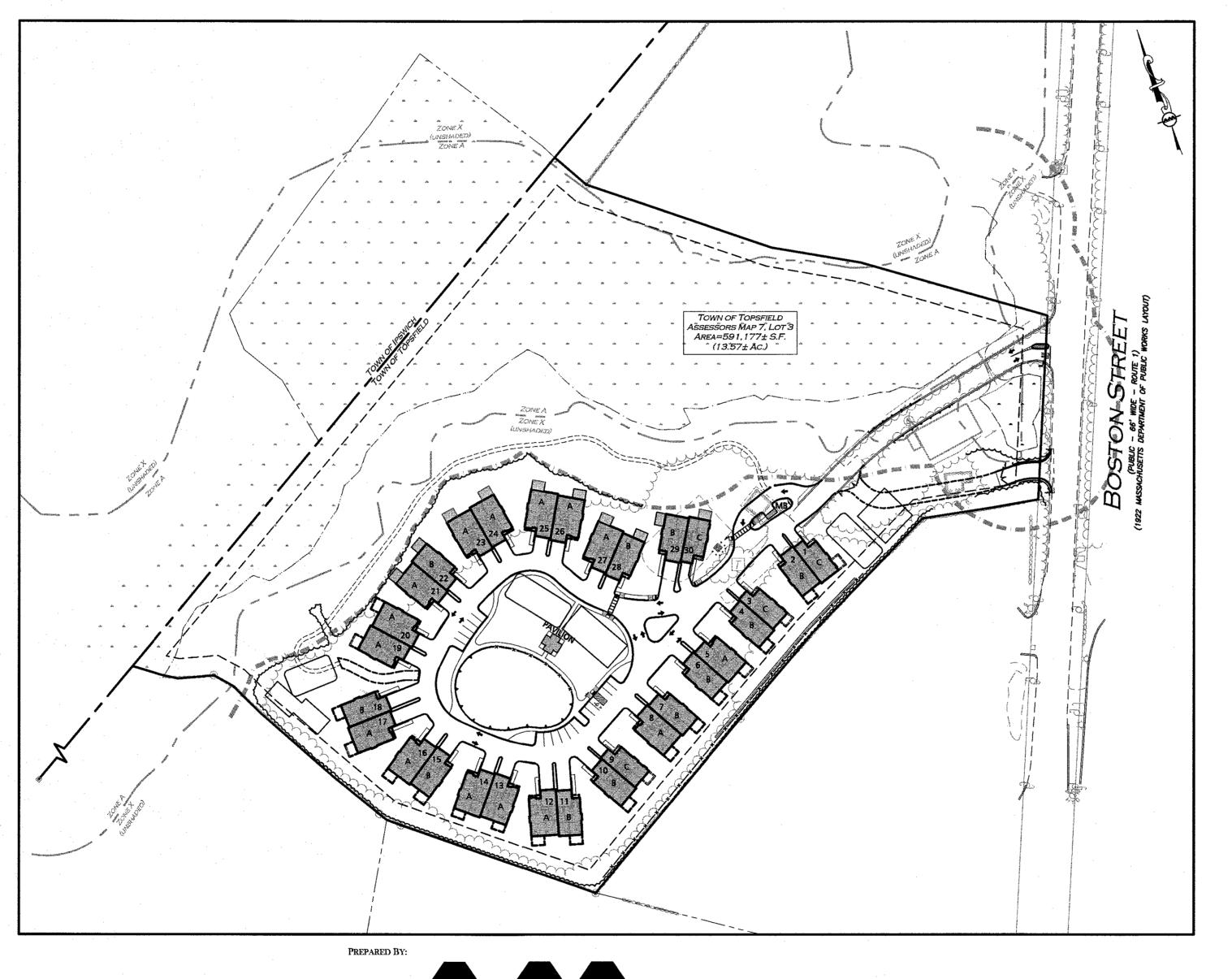
SANITARY SEWER ENGINEER: EAGLEBROOK ENGINEERING AND SURVEY, LCC 491 MAPLE STREET, SUITE 304 DANVERS, MA 01923 978.777.0494

LANDSCAPE ARCHITECT:
BROWN SARDINA
24 ROLAND STREET
BOSTON, MA 02129
617.482.4703

TRAFFIC ENGINEER:
VANASSE & ASSOCIATES, INC.
35 NEW ENGLAND BUSINESS CENTER DRIVE
SUITE 140
978.688.6508

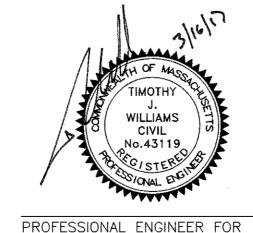
WETLAND SCIENTIST:
SEEKAMP ENVIRONMENTAL CONSULTANTS
129 ROUTE 125
KINGSTON, NH 03848
603.642.8300







FAX: (781) 935-2896
WOBURN, MA ◆ LAKEVILLE, MA ◆ MANCHESTER, NH



ALLEN & MAJOR ASSOCIATES, INC

CIVIL LIST O	- DRAWIN	1GS	
DRAWING TITLE	SHEET NO.	ISSUED	LAST REVISED
EXISTING CONDITIONS PLAN	l	10-13-2016	3-16-17
ABBREVIATIONS & NOTES	ABB-I - ABB-3	10-13-2016	2-27-17
DEMOLITION & EROSION CONTROL PLAN	C-I	10-13-2016	3-16-17
LAYOUT & MATERIALS PLAN	C-2	10-13-2016	3-16-17
GRADING & SPOT GRADES PLAN	C-3A - C3B	10-13-2016	3-16-17
DRAINAGE PLAN	C-4A - C4-B	10-13-2016	3-16-17
DRAINAGE PROFILES	C-4C - C-4D	10-13-2016	3-16-17
WATER & GAS UTILITIES PLAN	C-5A	10-13-2016	3-16-17
SITE ELECTRIC PLAN	C-5B	10-13-2016	3-16-17
FIRE TRUCK TURNING PLAN	C-6	10-13-2016	3-16-17
SNOW STORAGE PLAN	C-7	10-13-2016	3-16-17
TEST PITS PLAN	TPP-I	10-13-2016	3-16-17
DETAILS	D-I - D-10	10-13-2016	2-27-17

LANDSCAPE ARCHITECTS LIST OF DRAWINGS						
DRAWING TITLE	SHEET NO.	ISSUED	LAST REVISED			
PLANTING PLAN	L-I	10-13-2016	3-16-17			
PLANT LIST AND SEEDING PLAN	L-2	10-13-2016	3-16-17			
LIGHTING CUT SHEETS	L-3	2-27-17	3-16-17			
LIGHTING CUT SHEETS	L-4	2-27-17	3-16-17			

SANITARY SEWER LIST OF DRAWINGS					
DRAWING TITLE	SHEET NO.	ISSUED	LAST REVISED		
SDS PLAN	SDS-I	10-13-2016	3-13-17		
SDS PLAN	SDS-1.1	10-13-2016	3-13-17		
SDS PLAN	SDS-2.1	10-13-2016	3-13-17		
SDS PLAN	SDS-3.1	10-13-2016	3-13-17		
SDS PLAN	SDS-4	10-13-2016	2-27-17		
SDS PLAN	SDS-5	10-13-2016	3-13-17		

ARCHITECTURAL LIST OF DRAWINGS						
DRAWING TITLE	SHEET NO.	ISSUED	LAST REVISED			
COVER	COVER	10-05-16	11-23-16			
UNIT A ELEVATIONS I	A-I	10-05-16	11-23-16			
UNIT A ELEVATIONS II	A-2	10-05-16	11-23-16			
UNIT A FIRST FLOOR	A-3	10-05-16	11-23-16			
UNIT A SECOND FLOOR	A-4	10-05-16	11-23-16			
UNIT B ELEVATIONS I	A-5	10-05-16	11-23-16			
UNIT B ELEVATIONS II	A-6	10-05-16	11-23-16			
UNIT B FIRST FLOOR	A-7	10-05-16	11-23-16			
UNIT B SECOND FLOOR	A-8	10-05-16	11-23-16			
UNIT C ELEVATIONS I	A-9	10-05-16	11-23-16			
UNIT C ELEVATIONS II	A-10	10-05-16	11-23-16			
UNIT C FIRST FLOOR	A-11	10-05-16	11-23-16			
UNIT C SECOND FLOOR	A-12	10-05-16	11-23-16			

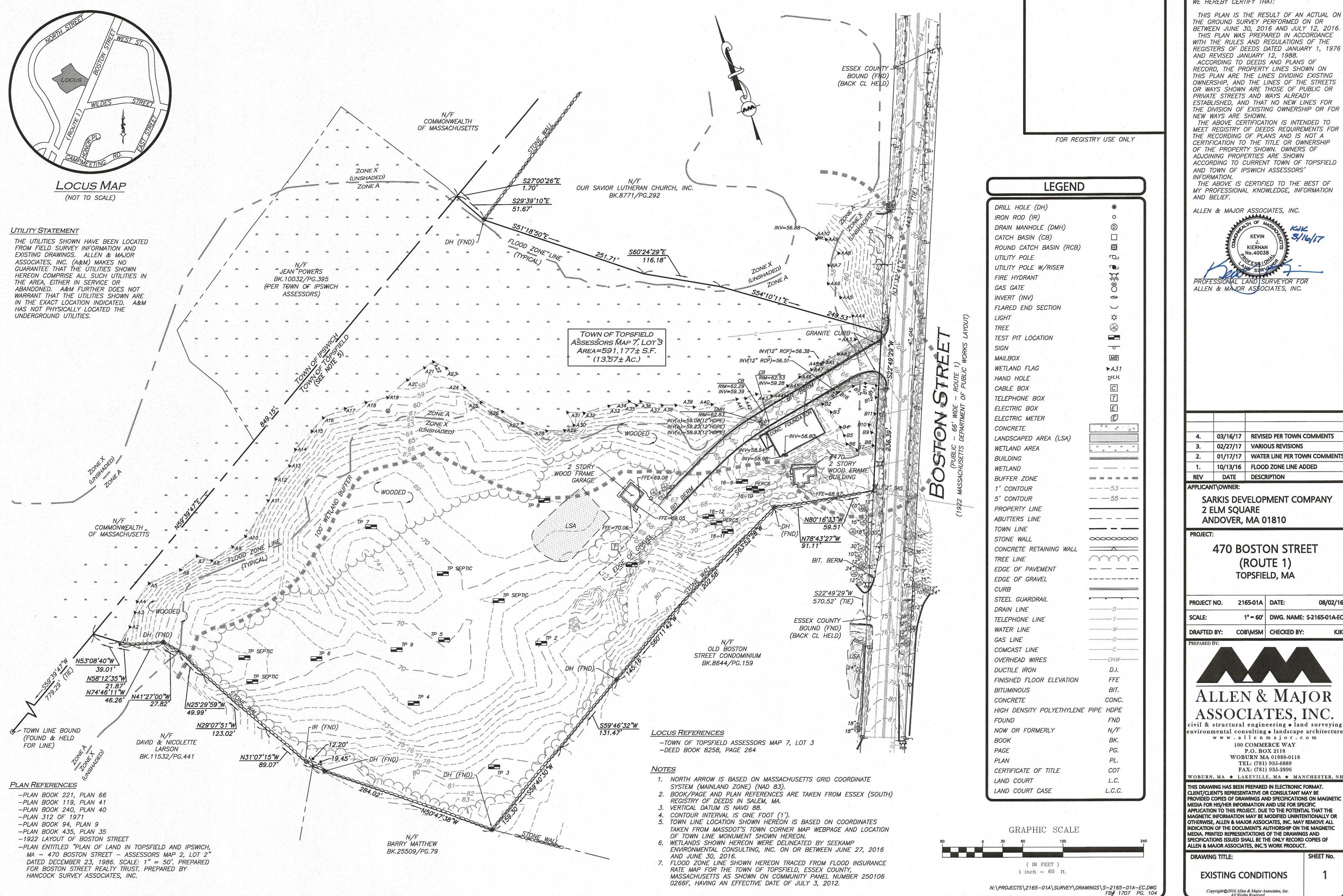
RE-ISSUED FOR SPECIAL PERMIT, SITE PLAN REVIEW & NOTICE OF INTENT: MARCH 16, 2017

RE-ISSUED FOR SPECIAL PERMIT, SITE PLAN REVIEW & NOTICE OF INTENT: FEBRUARY 27, 2017

RE-ISSUED FOR SPECIAL PERMIT & SITE PLAN REVIEW: JANUARY 17, 2017

ISSUED FOR SPECIAL PERMIT, SITE PLAN REVIEW & NOTICE OF INTENT: OCTOBER 13, 2016

N:\PROJECTS\2165-01A\CIVIL\DRAWINGS\CURRENT\C-2165-01A - COVER.DWG



WE HEREBY CERTIFY THAT:

THIS PLAN IS THE RESULT OF AN ACTUAL ON THE GROUND SURVEY PERFORMED ON OR BETWEEN JUNE 30, 2016 AND JULY 12, 2016 THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS DATED JANUARY 1, 1976 AND REVISED JANUARY 12, 1988. ACCORDING TO DEEDS AND PLANS OF RECORD, THE PROPERTY LINES SHOWN ON THIS PLAN ARE THE LINES DIVIDING EXISTING OWNERSHIP, AND THE LINES OF THE STREETS OR WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS AND WAYS ALREADY ESTABLISHED, AND THAT NO NEW LINES FOR THE DIVISION OF EXISTING OWNERSHIP OR FOR NEW WAYS ARE SHOWN.

THE ABOVE CERTIFICATION IS INTENDED TO MEET REGISTRY OF DEEDS REQUIREMENTS FOR THE RECORDING OF PLANS AND IS NOT A CERTIFICATION TO THE TITLE OR OWNERSHIP OF THE PROPERTY SHOWN. OWNERS OF ADJOINING PROPERTIES ARE SHOWN ACCORDING TO CURRENT TOWN OF TOPSFIELD AND TOWN OF IPSWICH ASSESSORS' INFORMATION.

THE ABOVE IS CERTIFIED TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION AND BELIEF.

ALLEN & MAJOR ASSOCIATES, INC.



4.	03/16/17	REVISED PER TOWN COMMENTS
3.	02/27/17	VARIOUS REVISIONS
2.	01/17/17	WATER LINE PER TOWN COMMENTS
1.	10/13/16	FLOOD ZONE LINE ADDED
REV	DATE	DESCRIPTION

SARKIS DEVELOPMENT COMPANY 2 ELM SQUARE ANDOVER, MA 01810

PROJECT:

APPLICANT\OWNER:

470 BOSTON STREET (ROUTE 1) TOPSFIELD, MA

2165-01A DATE: PROJECT NO. 08/02/10 SCALE: 1" = 60' DWG. NAME: S-2165-01A-E

COB\MSM | CHECKED BY: DRAFTED BY:



ASSOCIATES, INC. civil & structural engineering . land surveying

> www.allenmajor.com 100 COMMERCE WAY P.O. BOX 2118 WOBURN MA 01888-0118 TEL: (781) 935-6889 FAX: (781) 935-2896

WOBURN, MA 💠 LAKEVILLE, MA 💠 MANCHESTER, NE

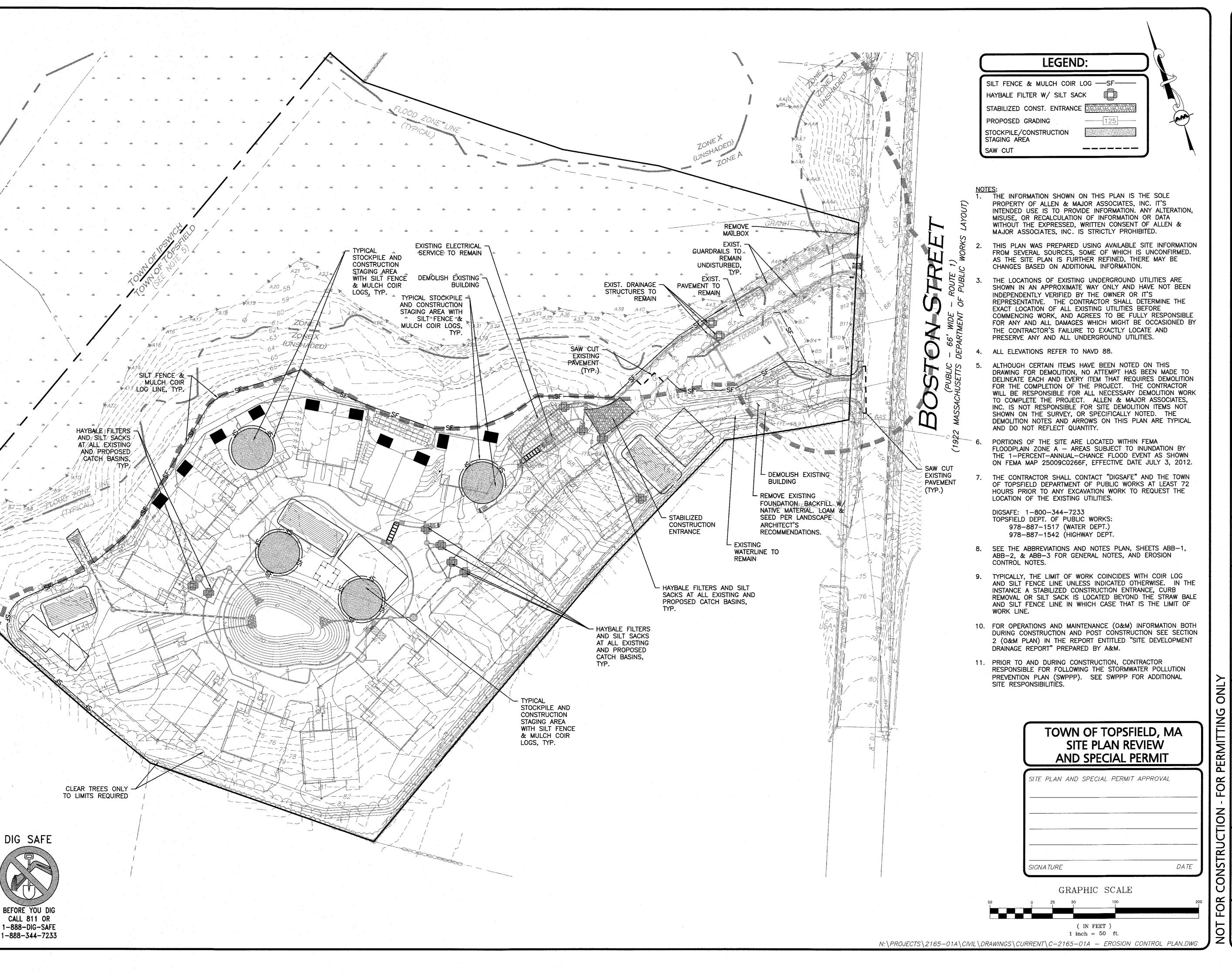
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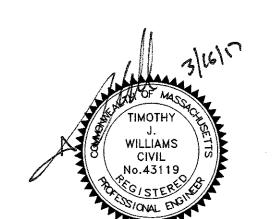
SHEET No.

DRAWING TITLE:

EXISTING CONDITIONS

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PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

3-16-2017 REVISIONS PER TOWN REQUEST
2-27-2017 REVISIONS PER TOWN COMMENTS
REVISED PER PEER REVIEW &
TOWN COMMENTS

REV DATE DESCRIPTION
APPLICANT\OWNER:

SARKIS DEVELOPMENT COMPANY 2 ELM SQUARE ANDOVER, MA 01810

PROJECT:

RESIDENTIAL DEVELOPMENT 470 BOSTON STREET (ROUTE 1) TOPSFIELD, MA

 PROJECT NO.
 2165-01A
 DATE:
 10-13-2016

 SCALE:
 1"=50"
 DWG. NAME:
 C-2165-01A

 DESIGNED BY:
 DMR
 CHECKED BY:
 RB

PREPARED BY:

ALLEN & MAJOR ASSOCIATES, INC.

civil & structural engineering • land surveying environmental consulting • landscape architecture w w w . a l l e n m a j o r . c o m

100 COMMERCE WAY WOBURN MA 01801-8501 TEL: (781) 935-6889 FAX: (781) 935-2896

WOBURN, MA ◆ LAKEVILLE, MA ◆ MANCHESTER, NI

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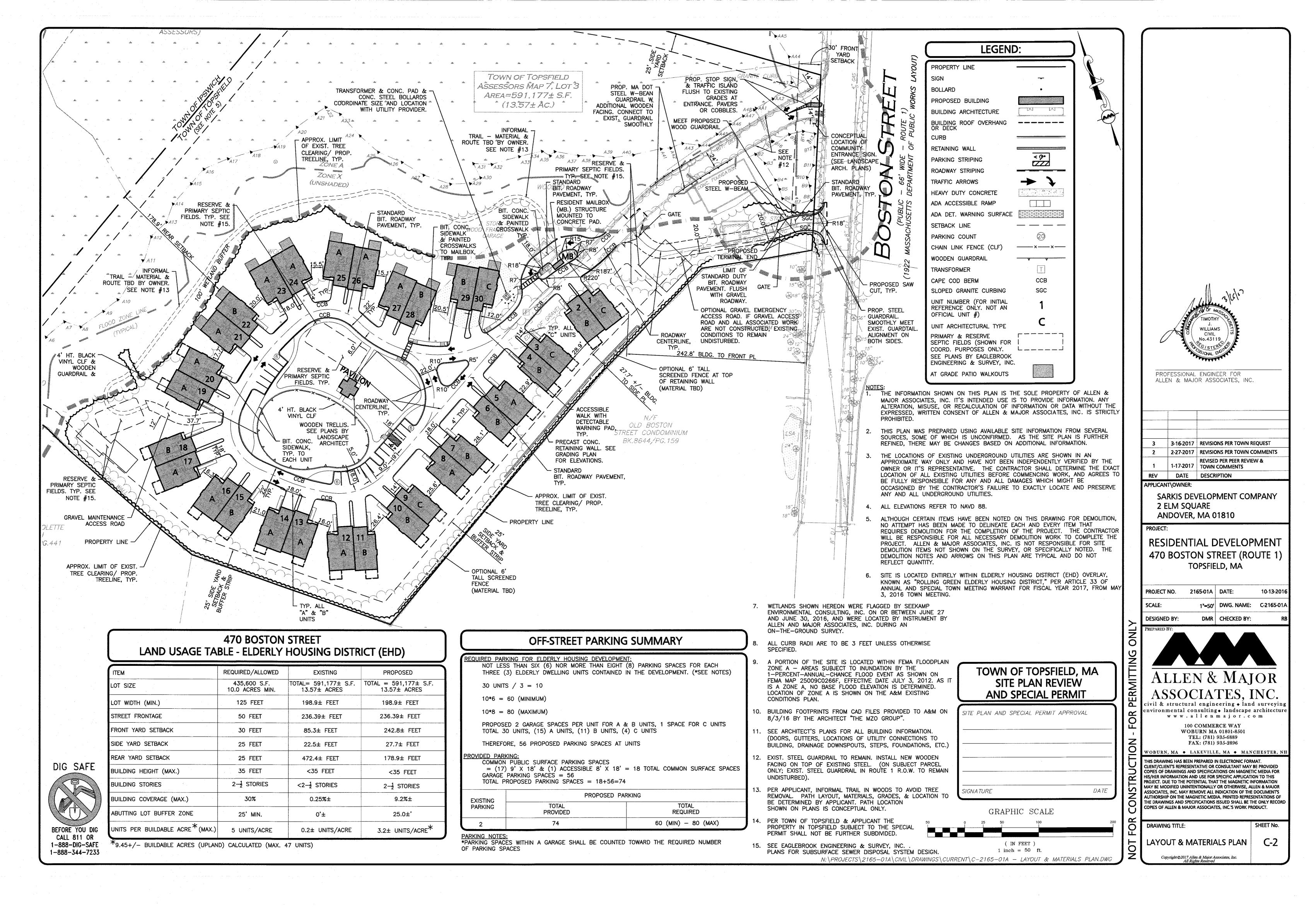
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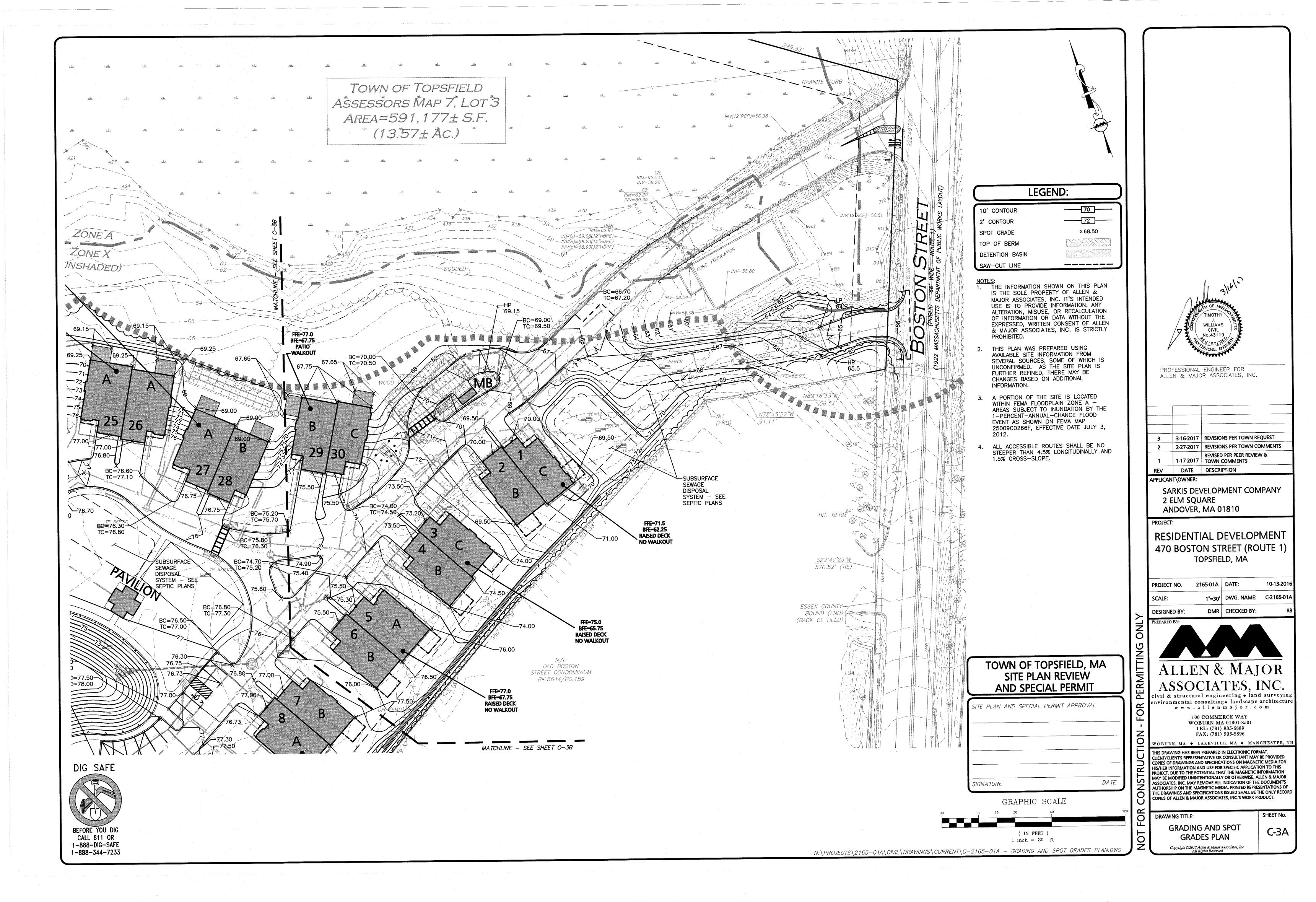
DEMOLITION &

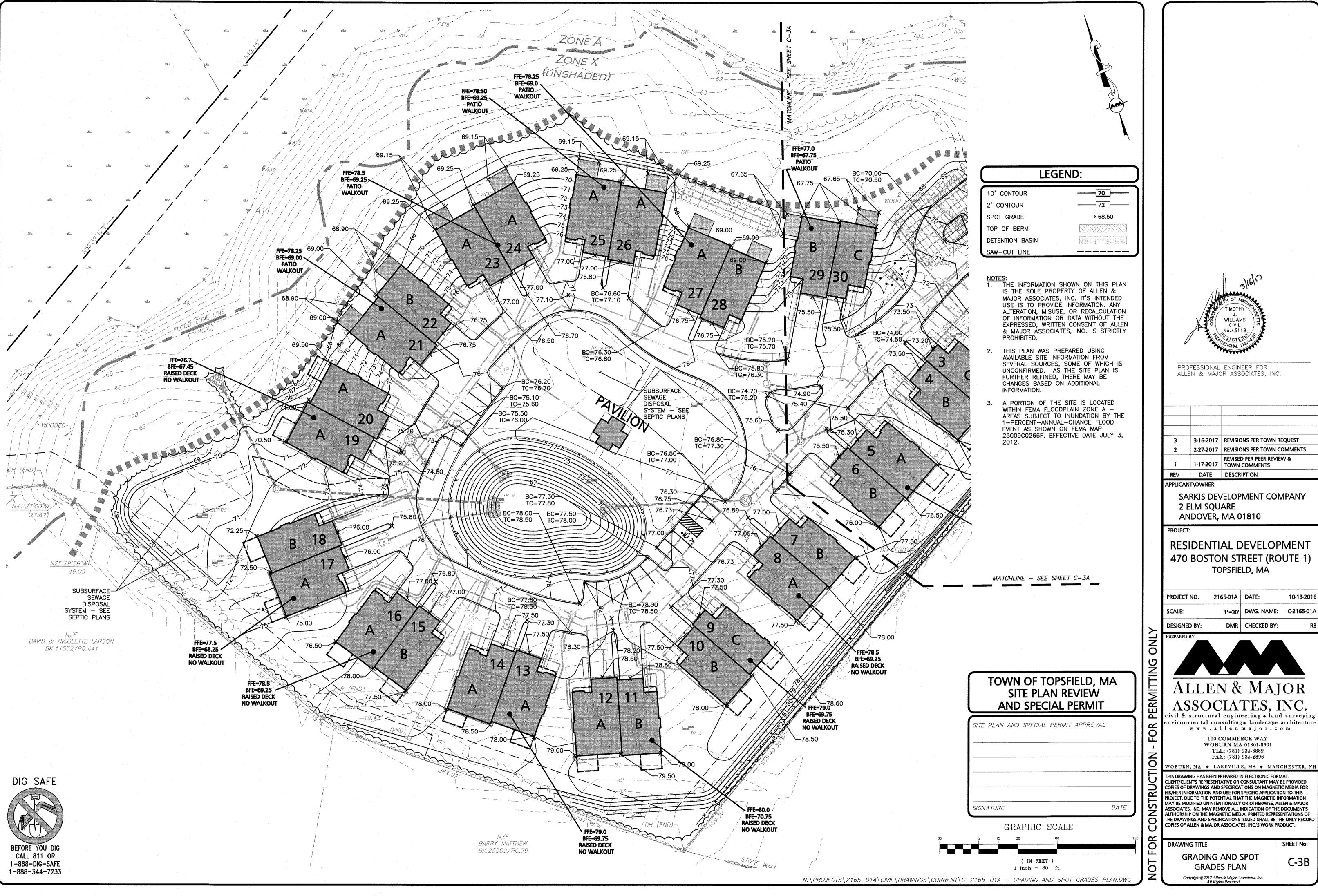
DEMOLITION & EROSION CONTROL PLAN

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PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

3	3-16-2017	REVISIONS PER TOWN REQUEST
2	2-27-2017	REVISIONS PER TOWN COMMENTS
1	1-17-2017	REVISED PER PEER REVIEW & TOWN COMMENTS
RFV	DATE	DESCRIPTION

ANDOVER, MA 01810

RESIDENTIAL DEVELOPMENT 470 BOSTON STREET (ROUTE 1) TOPSFIELD, MA

2165-01A DATE: 10-13-2016 1"=30' DWG. NAME: C-2165-01A DMR | CHECKED BY:



ASSOCIATES, INC.

100 COMMERCE WAY WOBURN MA 01801-8501 TEL: (781) 935-6889

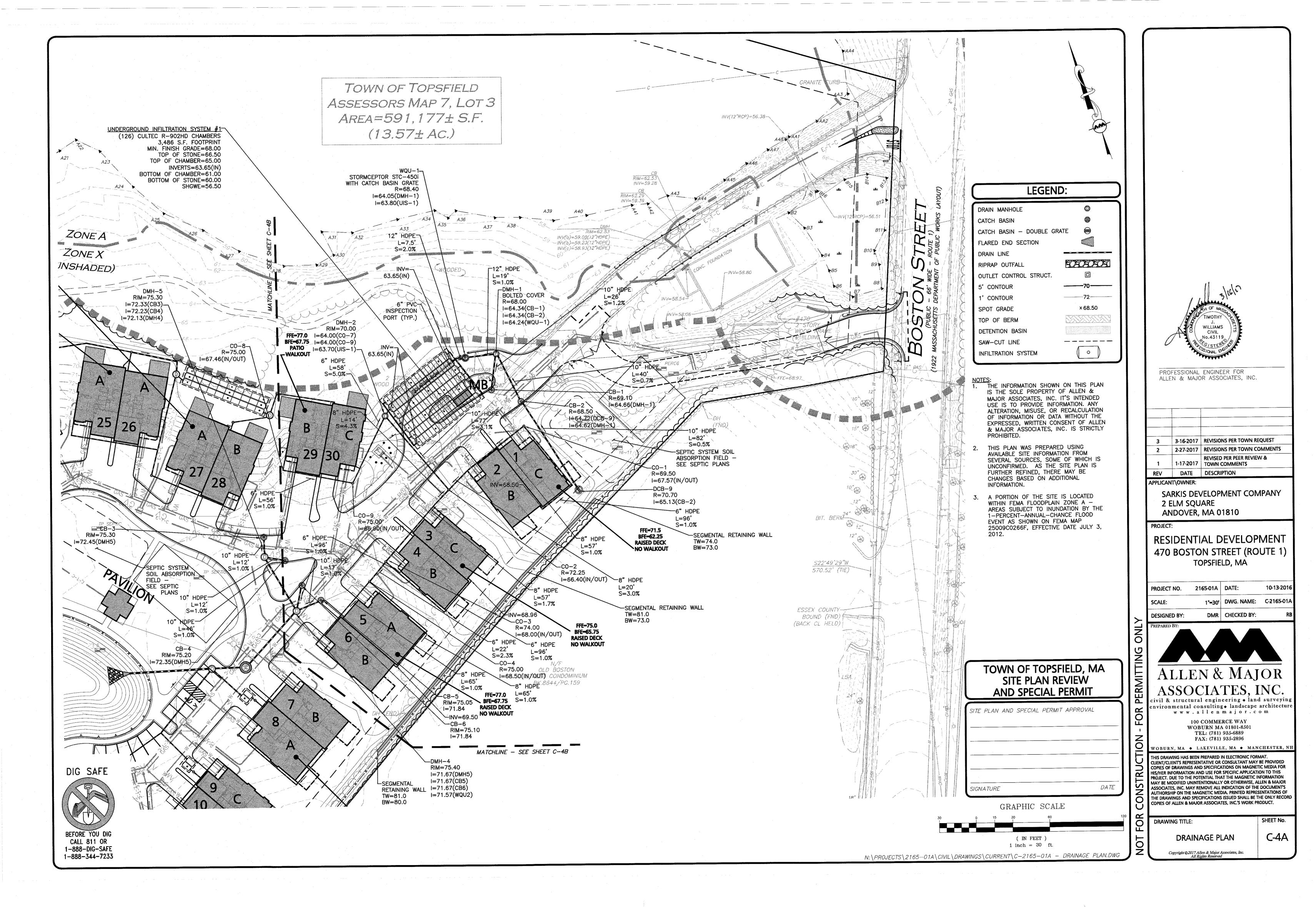
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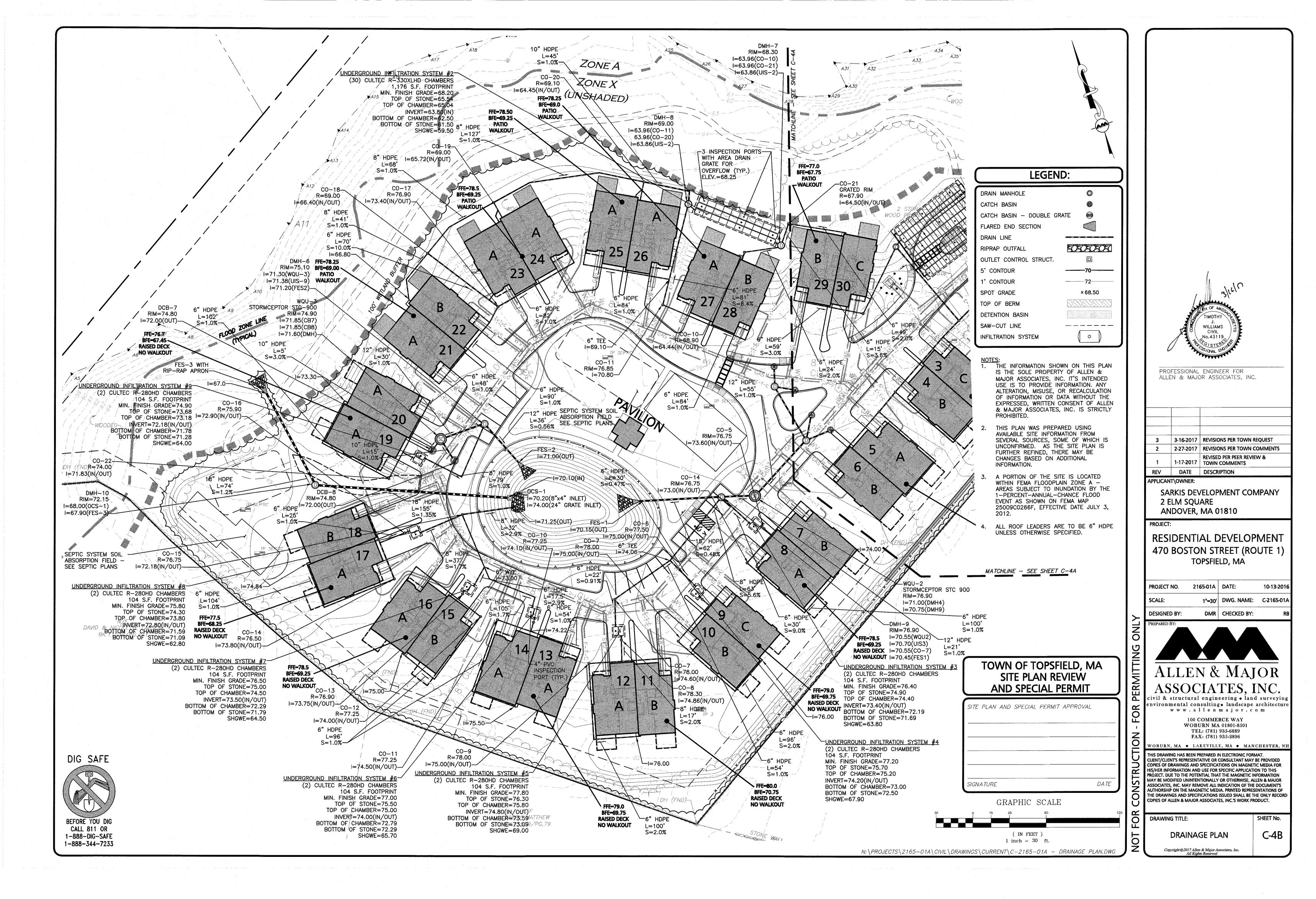
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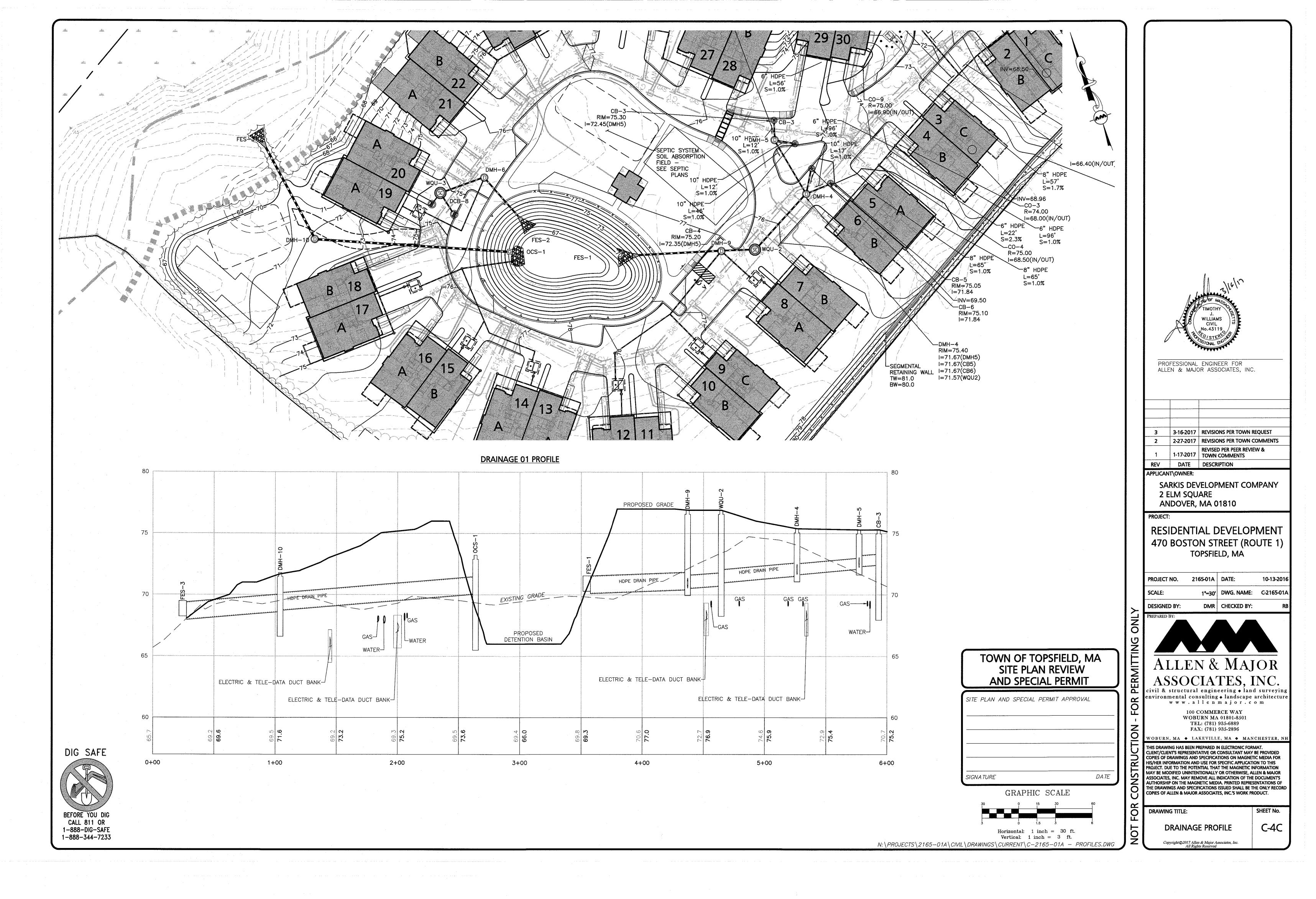
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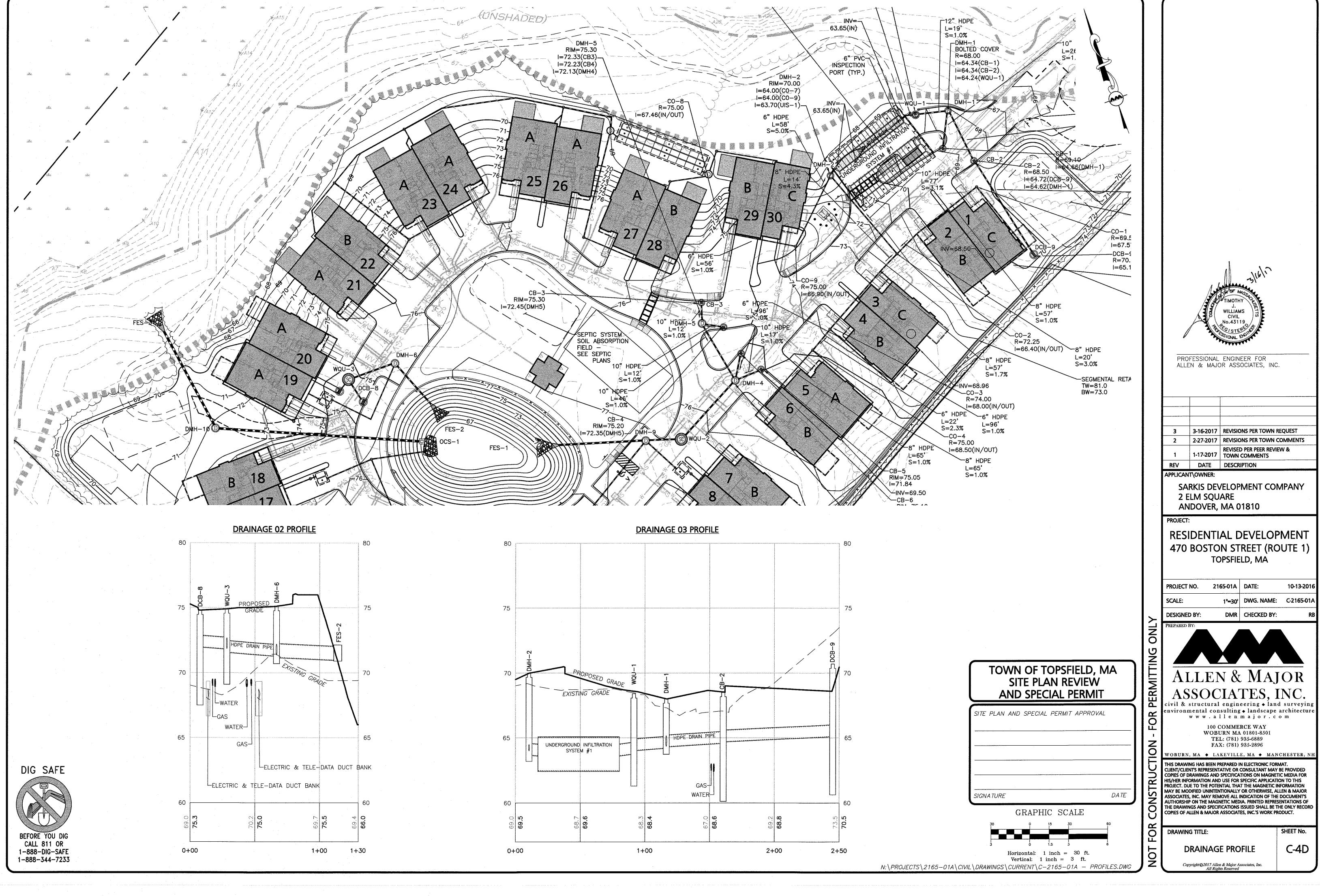
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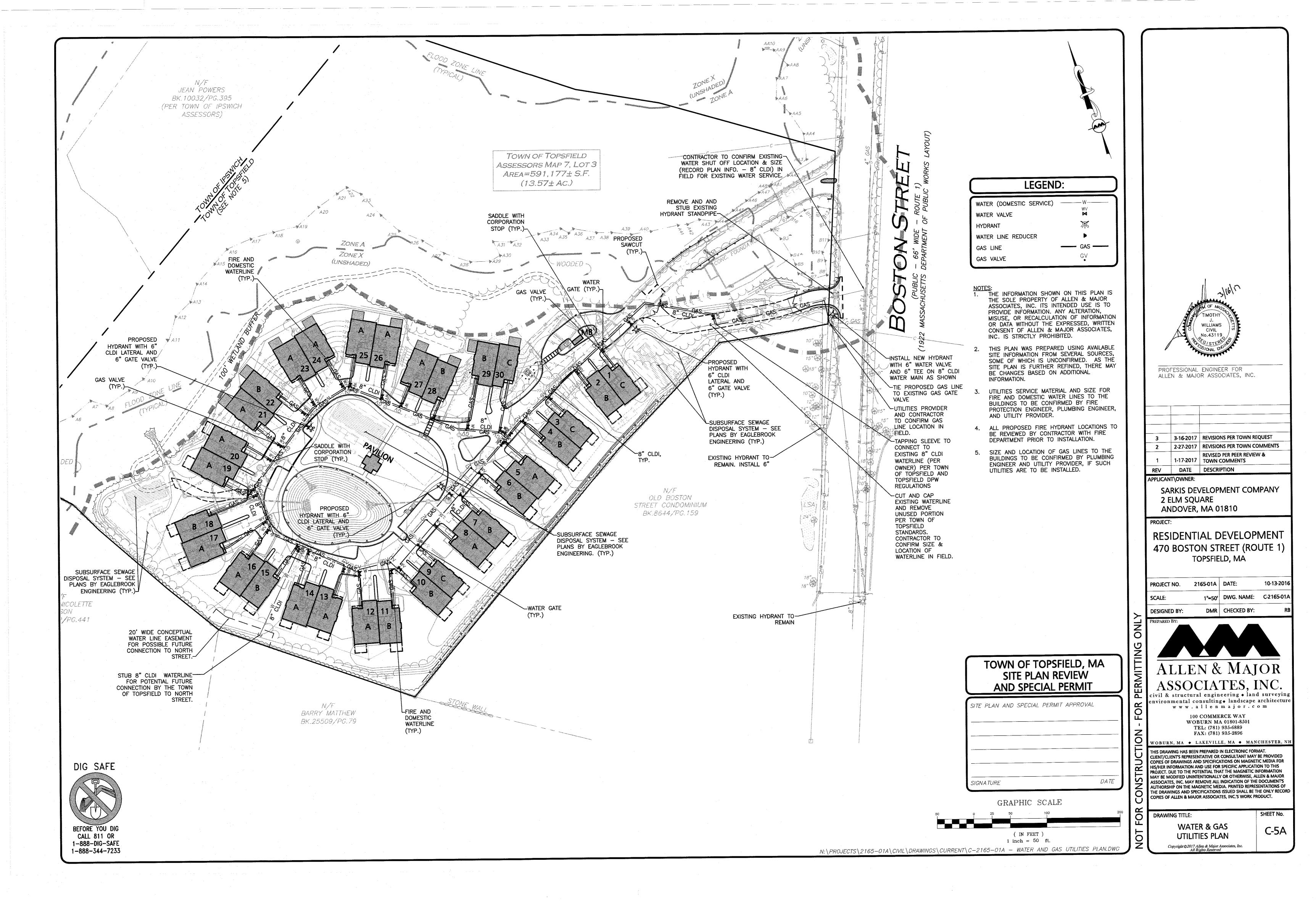
C-3B

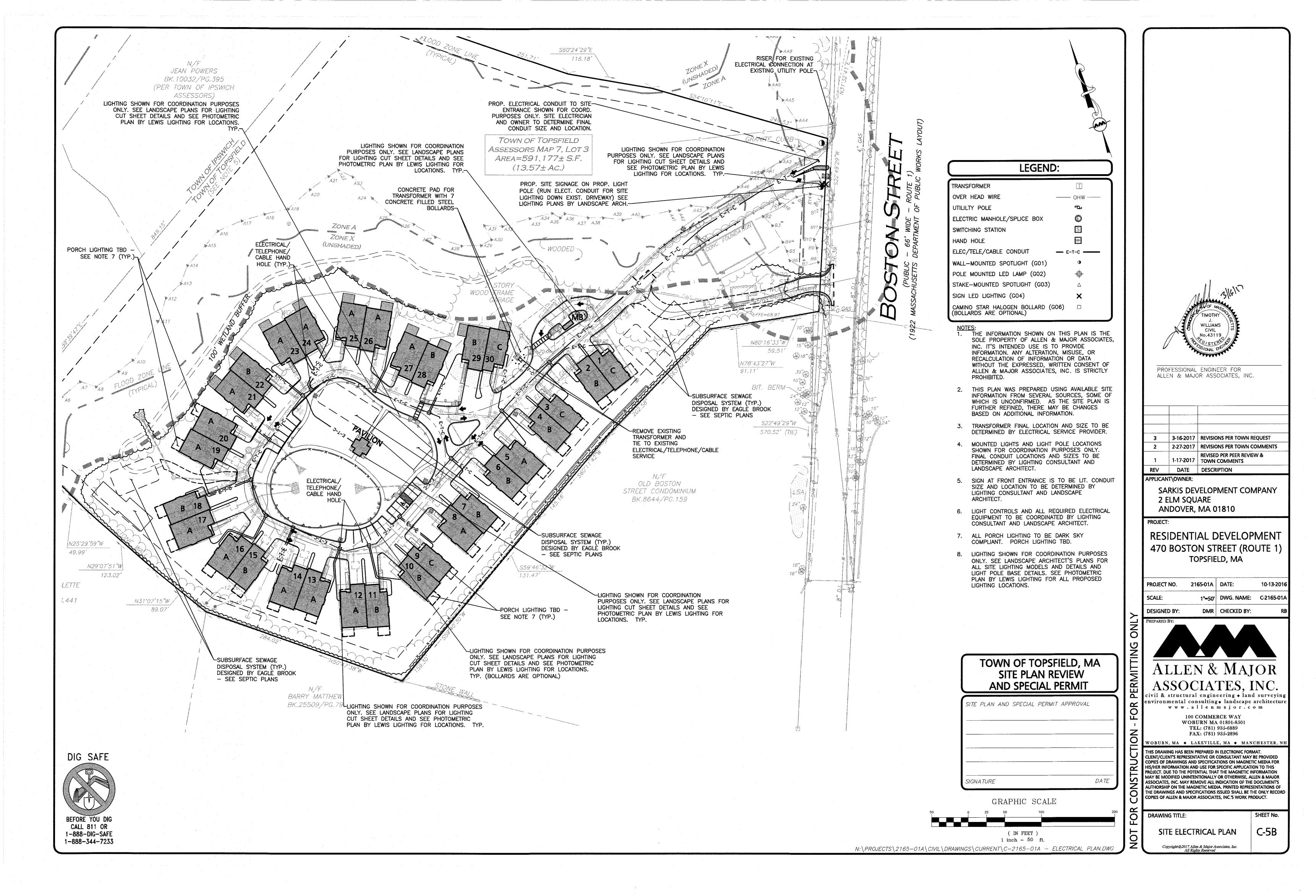


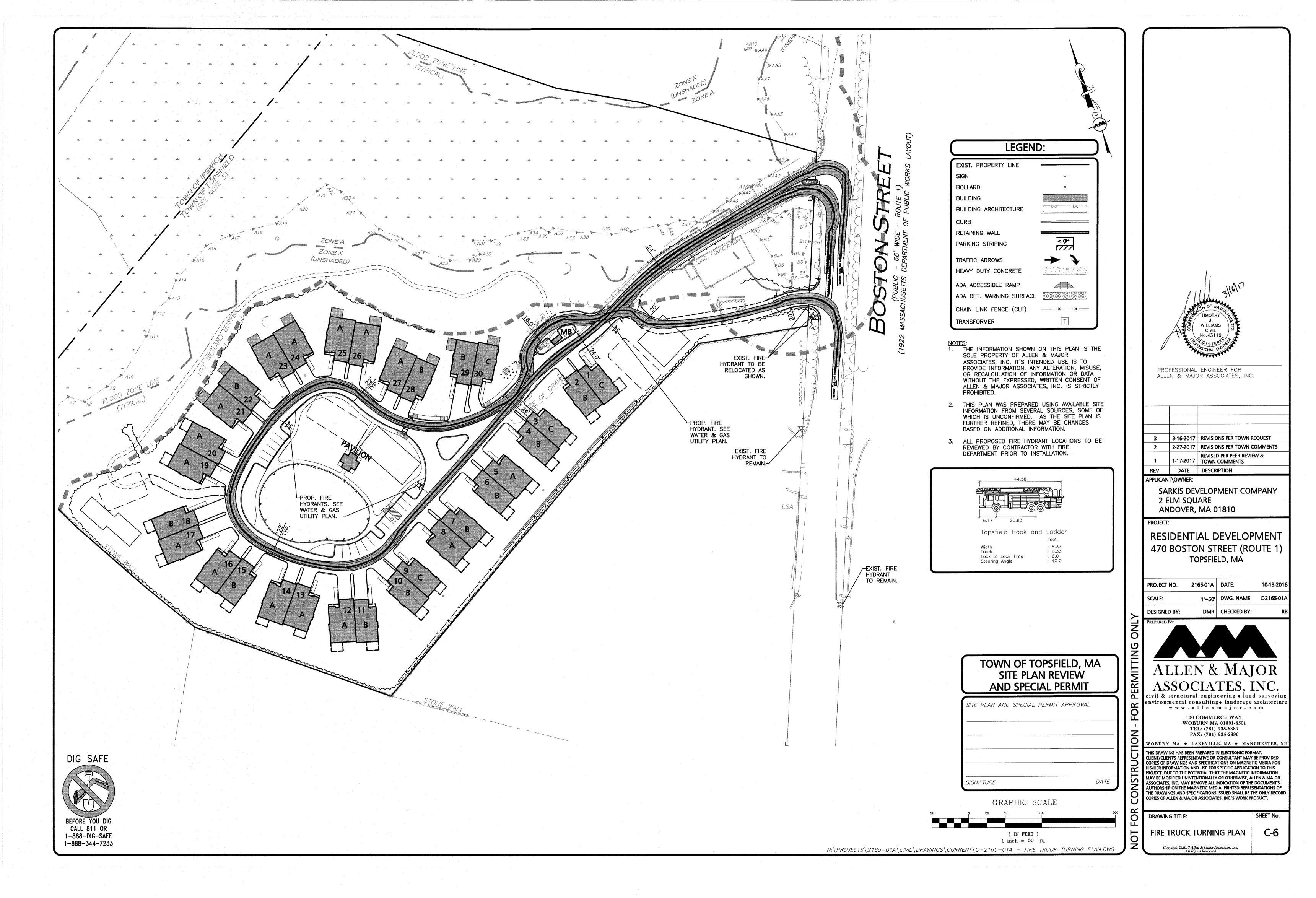


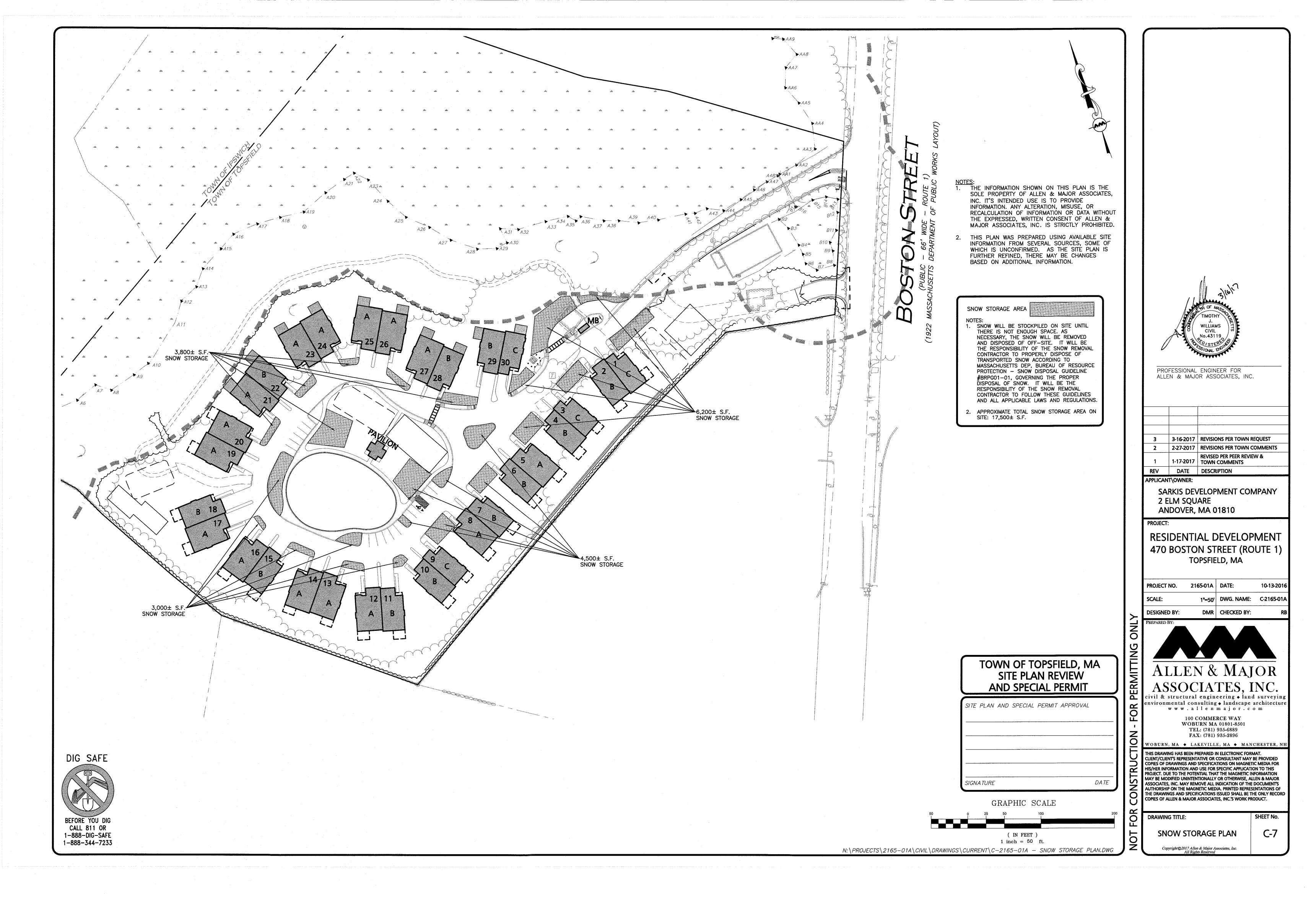


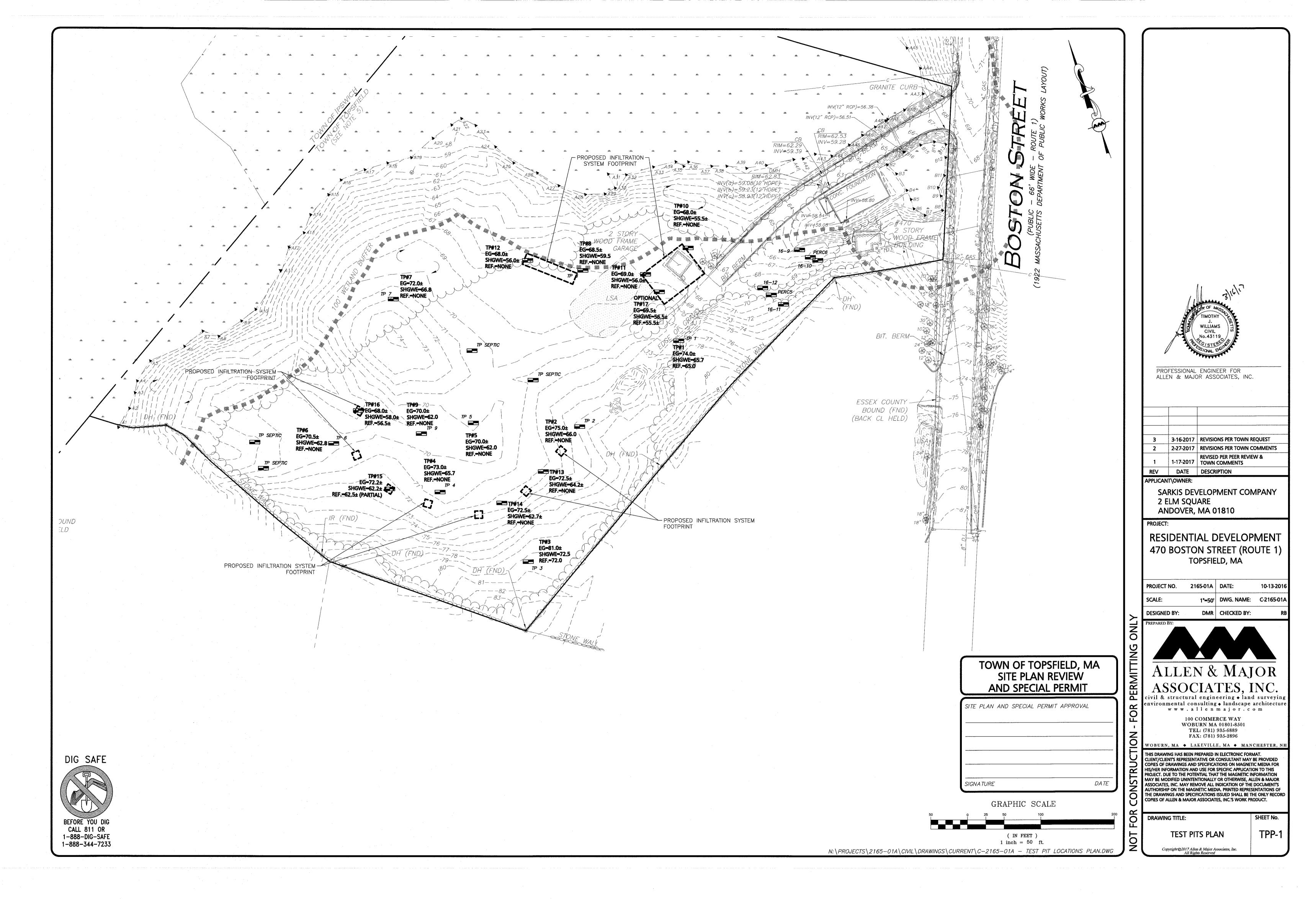


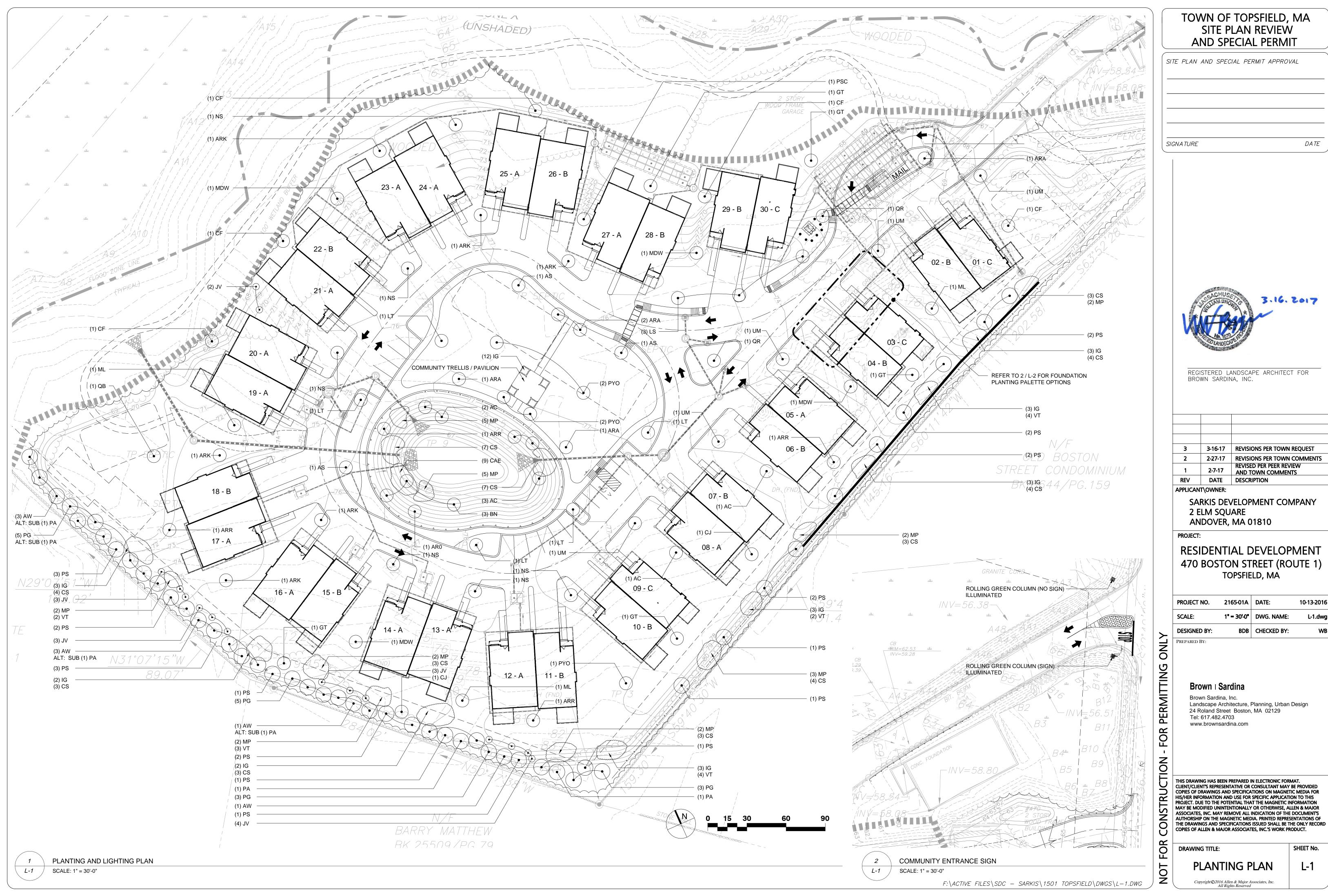












PROJECT NO.	2165-01A	DATE:	10-13-2016
SCALE:	1" = 30'-0"	DWG. NAME:	L-1.dwg
DESIGNED BY:	BDB	CHECKED BY:	WB

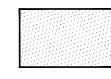


FOUNDATION PLANTING PALETTES

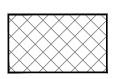
SCALE: 1" = 10'-0"

L-2

SEEDING LEGEND



SEED MIX #1 - LAWN 40% FINE FESCUE 40% KENTUCKY BLUEGRASS 20% PERENNIAL RYE GRASS DROUGHT TOLERANT MIX



SEED MIX #2 - MEADOW MIX NEW ENGLAND CONSERVATION / WILDLIFE MIX BY NEW ENGLAND WETLAND PLANTS

B&B, BRANCHED TO GROUND

B&B, BRANCHED TO GROUND

B&B, BRANCHED TO GROUND

B&B, BRANCHED TO GROUND

8' - 10' HT.

7' - 8' HT.

9' - 10- HT.

8' - 10" HT.

18"-24"" HT.

36"-48" HT.

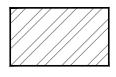
24"- 30" HT.

24"- 30" HT.

24" HT./SPR.

18"- 24" HT. 30" O.C., TRIA. SP.

42" O.C., TRIA. SP.



20°16'53"W

N78°43'27"W

BIT. BERM

SEE MIX #3 - BASIN MIX NEW ENGLAND EROSION CONTROL / **RESTORATION MIX FOR DETENTION** BASINS AND MOIST SITES BY NEW ENGLAND WETLAND PLANTS

PLANT LIST

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
ECIDUO	US TREES			
ARA	ACER RUBRUM 'ARMSTRONG'	ARMSTRONG RED MAPLE	2 - 2 1/2" CAL.	B&B, NO BRANCHES BELOW 6' MIN.
ARK	ACER RUBRUM 'KARPICK'	KARPICK RED MAPLE	2 - 2 1/2" CAL.	B&B, NO BRANCHES BELOW 6' MIN.
ARR	ACER RUBRUM 'RED SUNSET'	RED SUNSET RED MAPLE	2 - 2 1/2" CAL.	B&B, NO BRANCHES BELOW 6' MIN.
ARO	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	2 - 2 1/2" CAL.	B&B, NO BRANCHES BELOW 6' MIN.
AS	ACER SACCHARUM	SUGAR MAPLE	2 - 2 1/2" CAL.	B&B, NO BRANCHES BELOW 6' MIN.
BN	BETULA NIGRA	RIVER BIRCH	6' - 8' HT.	B&B, MULTI-STEM.
CJ	CERCIDIPHYLLUM JAPONICUM	KATSURA TREE	2 - 2 1/2" CAL.	B&B, NO BRANCHES BELOW 6' MIN.
GT	GLEDITSIA TRIACANTHOS VAR. INERMIS 'SKYLINE'	SKYLINE HONEYLOCUST	2 - 2 1/2" CAL.	B&B, NO BRANCHES BELOW 6' MIN.
LS	LIQUIDAMBAR STYRACIFLUA 'HAPIDAZE'	HAPIDAZE SWEETGUM	2 - 2 1/2" CAL.	B&B, NO BRANCHES BELOW 6' MIN.
LT	LIRIODENDRON TULIPIFERA 'EMERALD CITY'	EMERALD TULIP TREE	2 - 2 1/2" CAL.	B&B, NO BRANCHES BELOW 6' MIN.
NS	NYSSA SYLVATICA	BLACK TUPELO	2 - 2 1/2" CAL.	B&B, NO BRANCHES BELOW 6' MIN.
QA	QUERCUS ALBA	WHITE OAK	2 - 2 1/2" CAL.	B&B, NO BRANCHES BELOW 6' MIN.
QB	QUERCUS BICOLOR	SWAMP OAK	2 - 2 1/2" CAL.	B&B, NO BRANCHES BELOW 6' MIN
QR	QUERCUS RUBRA	RED OAK	2 - 2 1/2" CAL.	B&B, NO BRANCHES BELOW 6' MIN.
UM	ULMUS AMERICANA 'NEW HARMONY'	NEW HARMONY ELM	2 - 2 1/2" CAL.	B&B, NO BRANCHES BELOW 6' MIN.

EVERGREEN TREES				
AW	ABIES CONCOLOR			
JV	JUNIPERUS VIRGINIANA			

PA

PICEA ABIES

PG PICEA GLAUCA

BK.E

CAL CALIPER		PS	PINUS STROBUS	EASTERN WHITE PINE	8' - 10" HT.	B&B, BRANCHED TO GROUND
B&B	BALLED IN BURLAP	FLOWERI	NG TREES			
		AC	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE APPLE SERVICEBERRY	6' - 8' HT.	B&B, MULTI-STEM
TRIA. SP. TRIANGULAR SPACING		CF	CORNUS FLORIDA	FLOWERING DOGWOOD	6' - 8' HT.	B&B, HEAVY
O.C. ON CENTER	HJ	HAMAMELIS X INTERMEDIA 'JELENA'	JELENA WITCHHAZEL	6' - 7' HT.	B&B, HEAVY	
old.		MDW	MAGNOLIA 'DONALD WYMAN'	DONALD WYMAN CRABAPPLE	2 - 2 1/2" CAL.	B&B, NO BRANCHES BELOW 4'
#3 CONT	#3 SIZED CONTAINER	ML	MAGNOLIA X LOEBNERI 'LEONARD MESSEL'	LEONARD MESSEL MAGNOLIA	6' - 8' HT.	B&B, HEAVY
HT HEIGHT		PSC	PRUNUS SARGENTI 'COLUMNARIS'	COLUMNAR SARGENT CHERRY	2 - 2 1/2" CAL.	B&B, HEAVY
		PYO	PRUNUS YEDOENSIS	YOSHINO CHERRY	2 - 2 1/2" CAL.	B&B, HEAVY
SPR	SPREAD					
		DECIDUO	US SHRUBS			

WHITE FIR

EASTERN RED CEDAR

NORWAY SPRUCE

WHITE SPRUCE

SUMMERSWEET

RED TWIG DOGWOOD

NORTHERN BAYBERRY

CRANBERRY VIBURNUM

PROPOSED TREES

PROPOSED SHRUBS

PLANTING NOTES

- 1. REFER TO LAWNS AND GRASSES SPECIFICATIONS FOR FURTHER INFORMATION ON SEED MIXES.
- 2. ANY AREAS OF THE SITE, NOT OTHERWISE DESIGNATED, WHICH ARE DISTURBED DURING CONSTRUCTION SHALL BE HYDROSEEDED SEED MIXES, UNLESS OTHERWISE DIRECTED.
- 3. PLACE A 2" LAYER OF SHREDDED PINE BARK MULCH OVER ALL BEDS AND OVER ALL TREE GRASSES / PERENNIALS PITS.
- 4. CONTRACTOR SHALL VERIFY PLANT COUNTS BY CONFIRMING PLANTING PLAN AND PLANT LIST FOR ACCURACY DURING THE BIDDING PROCESS. REPORT ANY DISCREPANCIES IMMEDIATELY FOR CLARIFICATION BY THE LANDSCAPE ARCHITECT DURING THE ADDENDUM PHASE OF THE PROJECT.

EVERGREEN SHRUBS

CAE | CLETHRA ALNIFOLIA

CS CORNUS SERICEA

MP MYRICA PENSYLVANICA

VT VIBURNUM TRILOBUM

RK ROSA KNOCK OUT BLUSHING PINK

SAW SPIREA JAPONICA 'ANTHONY WATERER'

IG	ILEX GLABRA	INKBERRY	30" HT./SPR.	
IGS	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY - COMPACT	30" HT./SPR.	
JC	JUNIPERUS CHINENSIS SARGENTII	SARGENTII JUNIPER	18" HT./SPR.	42" O.C., TRIA. SP.
JHB	JUNIPERUS HORIZONTALIS	JUNIPER	18" - 24" HT.	42" O.C., TRIA. SP.
KL	KALMIA LATIFOLIA 'ELF'	ELF MOUNTAIN LAUREL	18"- 24" HT.	36" O.C., TRIA. SP.
RM	RHODODENDRON CATAWBIENSE 'LODER'S WHITE'	LODER'S WHITE RHODODENDRON	24"-30" HT.	48" O.C., TRIA. SP.
KIVI	RHODODENDRON CATAWBIENSE LODER'S WHITE	LODER 5 WHITE KHODODENDRON	24 -30" H1.	40 U.C., I KIA. SP.

BLUSHING PINK KNOCK OUT ROSE

ANTHONY WATERER SPIREA

AQ	HEMEROCALLIS	DAYLILLIES	#1 CONT	18" O.C., TRIA. SP.
CSS	CAREX STRICTA	TUSSOCK SEDGE	# 3 CONT	18" O.C., TRIA. SP.
EP	ECHINACEA PURPUREA	PURPLE CONEFLOWER	#1 CONT	18" O.C., TRIA. SP.
MS	MISCANTHUS SINENSIS 'LITTLE KITTEN'	LITTLE KITTEN MAIDEN GRASS	#2 CONT	18" O.C., TRIA. SP.
NF	NEPETA X FAASSENII 'BLUE WHISPER'	BLUE WHISPER CATMINT	#2 CONT	18" O.C., TRIA. SP.
PA	PENNISETUM ALOPECUROIDES 'HAMELN'	HAMELN DWARF FOUNTAIN GRASS	#2 CONT	24" O.C., TRIA. SP.
RF	RUDBECKIA FULGIDA 'GOLDSTRUM'	BLACK EYED SUSAN	#1 CONT	18" O.C., TRIA. SP.
SN	SYMPHYOTRICHUM NOVAE-ANGLIAE	NEW ENGLAND ASTER	# 3 CONT	24" O.C., TRIA. SP.
	·	·		

NOT

TOWN OF TOPSFIELD, MA SITE PLAN REVIEW AND SPECIAL PERMIT

SI	'TE	PLAN	AND	SPECIAL	PERMIT	APPROVA	L
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_							
_							
SI	GN,	A TURE	-				DATE



REGISTERED LANDSCAPE ARCHITECT FOR BROWN SARDINA, INC.

3	3-16-17	REVISIONS PER TOWN REQUEST
2	2-27-17	REVISIONS PER TOWN COMMENTS
1	2-7-17	REVISED PER PEER REVIEW AND TOWN COMMENTS
REV	DATE	DESCRIPTION

APPLICANT\OWNER: SARKIS DEVELOPMENT COMPANY 2 ELM SQUARE ANDOVER, MA 01810

PERMITTING

FOR

CTION

RESIDENTIAL DEVELOPMENT 470 BOSTON STREET (ROUTE 1) TOPSFIELD, MA

	PROJECT NO.	2165-01A	DATE:	10-13-2016
	SCALE:	AS SHOWN	DWG. NAME:	L-1.dwg
-	DESIGNED BY:	BDB	CHECKED BY:	WB
Z	PREPARED BY:			
O				

Brown | Sardina

Brown Sardina, Inc. Landscape Architecture, Planning, Urban Design 24 Roland Street Boston, MA 02129 Tel: 617.482.4703 www.brownsardina.com

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DRAWING TITLE:

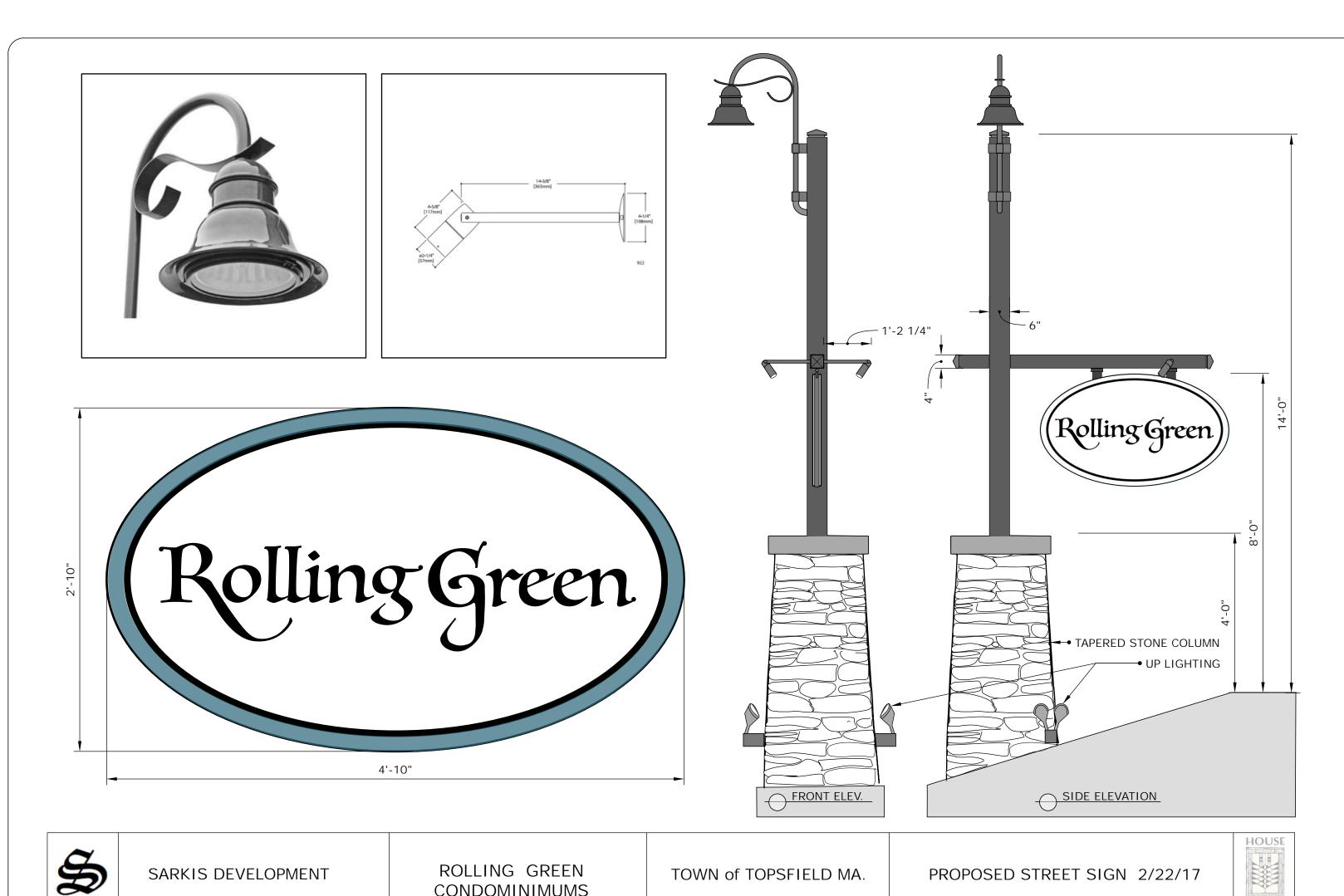
PLANT LIST AND **SEEDING PLAN**

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L-2

SHEET No.

F:\ACTIVE FILES\SDC - SARKIS\1501 TOPSFIELD\DWGS\L-1.DWG



lewis · lighting design Rolling Green Date: 3/15/2017 Lighting Fixture Schedule LLD Project #: 1702 Not for Bidding or Construction By: nd/wl Fixture Catalog # Light Source Type Description Exterior surface wall mounted LED decorative lantern, integral electronic • INTEGRAL LED, 40W 1, 5, @ Rte 1 Intersection driver, wall mounting bracket. • ELA: BEL-30-CR34-H4-40LED-_-DSFG-MN-HSS Exterior pole mounted LED area light, 14 7/8" wide, 23", 15' pole, Type 3 • INTEGRAL LED, 40W 1, 5, @ Road distribution, corrosion resistant cast aluminum alloy , powder coat finish, • ELA: BEL-30-CA-H2-40LED-_-DSFG-MN-CR-17A-P3011B-16' Exterior ground stake mounted spotlight, 2-1/2" diameter aperture, silicone • Vision 3: FL1A-BLT-RND-C4-K1-117-L2-0-0-M01S-BL-S3-12-• INTEGRAL LED, 10W 1, @ Gazeebo O-ring, thermoplastic PVC, black polyester powder coat finish, 12" adjustable stake, integral electronic transformer, ul 1838 rating. Exterior wall surface mounted led sign light, 33 1/16" straight arm, center • Lumiere: 922-10LED2741-12-BK-LSL T60 INTEGRAL LED, 10W 1, @ Entry Sign rear swivel, single head, painted black finish, linear spread lens, 21 degree narrow downlight, [x] delivered lm, 2700K CCT, 80+ CRI, remote electronic Exterior ground stake mounted low-voltage path light, 3" diameter base, 5

• B-K Lighting: CS-LV-65-FINISH-H-18-MOUNTING-L75E-• Q50T-4/CL-12V, 50W 1, @ Pathway 1/2" diameter top, 23" height, machined aluminum body, polyester powder VOLTAGE coating, T4 halogen lamp, 950 lamp lm, integral dimmable transformer, wet

- 1. Provide a complete and operable system including all necessary mounting hardware, power feeds, wiring connections, ballasts, drivers, and control interfaces. $^{2\cdot}$ Provide overall lighted lengths as shown on architectural drawings.
- 3. Provide overall lighted lengths as shown on architectural drawings using 4' and 8' fixture bodies.
- $^{4\cdot}$ Mounted in an architectural detail. See drawings for mounting configuration and hardware requirements. ⁵ Provide remote astronomical timeclock - see construction documents for location details.

170315 LLD FS - Rolling Green.xlsx

Photocell Options Photocell is available in 120 thru 480 volts

Photocell receptacle only fits some cross arms. Consult factory. Specify when order

Fixture Ordering Example:

1 of 1

	Environmenta	l Lighting for	Architecture	, Inc.			ing Matrix Bell - BEL
6. Voltage	Matrix #: Description:		240 28V 240V	277 * 277V	347 347V	480 480V	
* Only these voltages are available with LED.				:			
7. Lens							
Notes 1. Glass is tempered flat glass.	Matrix #: Description:	DSC	G Clear Glass (Dark Skies)		DSFG Fros (Dar	ited Glass k Skies)	
8. Color Notes Consult factory for custom colors.	GY Archited CC Charcoa CY Clay DB Dark Bro HR Harbor I	tion ne Green tural Grey al onze Blue	Matrix # Descript MG Malaga MN Midnight PW Pewter SS Sand St SB Statuary VL Village C W White	Green orm Bronze		plied Finish Description Cracked Hide Light Verde Old Iron Rust Verde	
9. Options Notes 1) BBU option is available for fluorescent lamp only. 2) Test button location shall have visibility for testing on site. Consult factory for	[-	- +					

lewis·lighting design | fixture type: G01 G02 - Option A

Battery Backup Photocell Button Terminal Block BEL/22/CP/H5/150MH/120/DSFG/CY 3 Fixture / Size / Mounting / Optics / Ballast / Voltage / Lens / Color / Option

BEL Bell Fixture		22		CP Chain Per	ndant	Hori	15 izontal pe 5		150MH 150 Watt Metal Halide		120 120 Volts	3	Dark Dark Frosted	Skies	-	Cla	-		-
Fixture O	rde	ring F	orm:																
1		2	;	3	4		5		6		7		8		9		9		9
Fixture	1	Size	/ Mou	nting /	Optics	/	Lamp	/	Voltage	/	Lens	/	Color	/	Option	/	Option		Option
									·										
BEL	1		1	1		1		1		1		1		1		1		1	
							Stamp A	pplie	ed on 02/07	/201	7								

17891 Arenth Ave., City of Industry, CA 91748 • (800) 423-6561 • Fax: (626) 965-9494 • www.ela-ligh ing.com • info@ela-lighting.com

lewis·lighting design | fixture type: G01 G02 - Option A

CONDOMINIMUMS

Environmental Lighting for Architecture, Inc.



Available in two sizes, the Bell draws from the Mission Revival architectural movement while offering state of the art lighting technology for maximum performance. Suitable for pole, cross arm, pendant, or wall mounting conditions, the Bell is the perfect highend solution to street and roadway lighting, parking lots, site and walkway lighting, shopping malls, warehouses, "Big Box" style retail stores, and much more.

Constructed of high grade aluminum and finished with a powdercoated finish with a sealed, tempered glass lens, the Bell is built for the toughest of conditions. The Bell can also meet the high performance standards of today's lighting requirements. The Bell is available with an array of high-performance segmented reflectors to achieve maximum performance for all light distributions and is designed with a natural full cut-off to meet all Dark Skies requirements. Available in up to a maximum 400 watt Metal Halide or 310 watt High Pressure Sodium, the Bell can also accommodate today's Low-Energy requirements with up to 135 watt <u>LED</u> or 300 watt <u>Induction</u> sources while still maintaining excellent light output.

The Bell offers a classic traditional mission look while performing at a level that is second to none.

Stamp Applied on 02/07/2017 17891 Arenth Ave., City of Industry, CA 91748 • (800) 423-6561 • Fax: (626) 965-9494 • www.ela-ligh ing.com • info@ela-lighting.com lewis·lighting design | fixture type: G01 G02 - Option A

DESIGN

1 2 Fixture / Size / BEL / 22 /	Environmental Lighting 3 4 Mounting / Optics CP / H5	g for Architecture, Inc. 5 6 / Ballast / Voltage / / 150MH / 120		Ordering Matrix Bell - BEL 8 9 Color / Option CY /
1. Fixture: BEL	•			
2. Size	Ī	17½" 22" Dia. —	30" Dia	24 1/2"
	Matrix #: Description: Notes: EPA: Weight:	22 Max Wattage 150W 1.3 22 lbs.	Max Watt 2	80 age 400W .6 lbs.
3. Mounting	Matrix #: Cd	A CP	SP	WB
Please consult factory for Poles, Wall Brackets, and other mounting options.	Description: Cross		Stem Pendant	Wall Bracket
4. Optics	Horizontal M	latrix #: escription: V3 TYPE latrix #: escription: H2 escription: TYPE 2 TYPE) (A)	H5 TYPE 5
Notes 1. Electronic ballast available for 50, 70, 100, and 150 watt MH lamps. 2. Other wattages and ballasts available. Consult factory.	Metal Halide (Watts / Type) Matrix #: 50PSMH 70PSMH 100PSMH 150PSMH 200PSMH * 250PSMH * 320PSMH *	Metal Halide High Pressure Sodium Comp Fluore Sodium (Watts / Type) (Watts / Type) (Watts / Type) 50MH 50HPS 18CF 70MH 70HPS 26CF 150 HPS 32CF 150 HPS 42CF 76 150 MH 200 HPS * 57CF 250 HPS * 60 CF Incandescent (Watts / Type) (Watts / Type) NC 40 LED 75 LED 13 ED *	Bulb Type (Watts / Type) S / Type) (Watts / Type) S5iB S5iB S5iB 100iB 100iB 120iB 165iB 200iB	Induction

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ONL PERMITTING FOR CTION

TOWN OF TOPSFIELD, MA SITE PLAN REVIEW AND SPECIAL PERMIT

SITE PLAN AND SPECIAL PERMIT APPROVAL	
SIGNA TURE	DATE



REGISTERED LANDSCAPE ARCHITECT FOR BROWN SARDINA, INC.

3	3-16-17	REVISIONS PER TOWN REQUEST
2	2-27-17	REVISIONS PER TOWN COMMENTS
1	2-7-17	REVISED PER PEER REVIEW AND TOWN COMMENTS
REV	DATE	DESCRIPTION

APPLICANT\OWNER: SARKIS DEVELOPMENT COMPANY 2 ELM SQUARE ANDOVER, MA 01810

RESIDENTIAL DEVELOPMENT 470 BOSTON STREET (ROUTE 1) TOPSFIELD, MA

> .	DESIGNED DY.		CHECKED DI.	***
	DESIGNED BY:	BDB	CHECKED BY:	WI
	SCALE:	NTS	DWG. NAME:	L-1.dw
	PROJECT NO.	2165-01A	DATE:	10-13-2010

Brown | Sardina

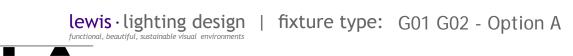
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SHEET No.

DRAWING TITLE: L-3

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Specifications and Elevated Scale vironmental Lighting for Architecture, Inc. Bell - BEL

Specifications

Fixture Housing: One-piece sand-casting housing with a spun aluminum shade. The housing shall be free of any foreign materials or cosmetic fillers. For wall and arm mounts, consult factory for installation

Optics: Units shall be hydroformed or segmented sharp cut-off optics. Specular Alzak optical segments are rigidly mounted, which attaches to the housing as a one-piece module. Reflectors are field rotatable in 90° increments. All sockets are factory prewired; an optional quick-disconnect plug for the ballast module is available when specified. The vertical optical segments are positioned so that reflected light does not pass through the lamp arc tube to achieve maximum lamp output.

Electrical Module: All electrical components are UL and CSA recognized, mounted on a single plate and factory prewired. Reference pages 2 and 3 for lamp characteristics, ballast types and voltage technical data.

Lens: The lens options shall be tempered flat glass, factory installed with gaskets.

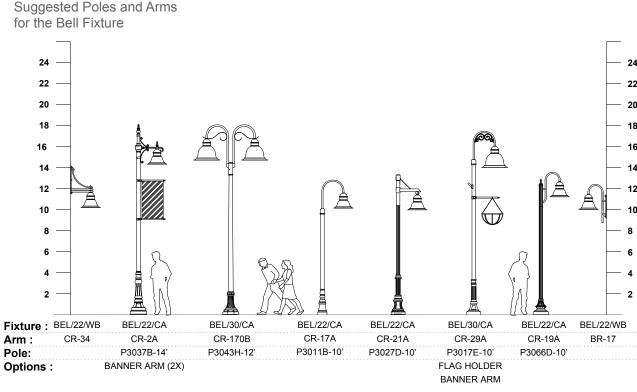
Finish/Color: Finish is super TGIC thermoset polyester powder coat paint. ELA offers RAL color matches along with our standard color selection.

Certification: Fixtures shall be listed for outdoor, wet location. UL1598. IP rating 65.

CAUTION: Fixtures must be grounded in accordance with national, state, and/or local codes. Failure to do so may result in serious personal injury.

ELA RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.

Elevated Scale

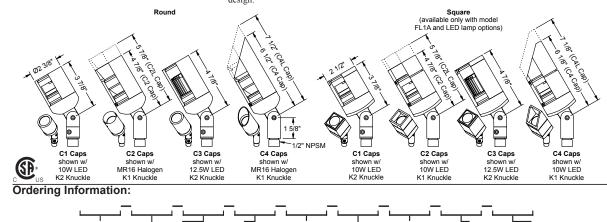


Stamp Applied on 02/07/2017 Note Modifications to the fixture and additional pole heights are available. 17891 Arenth Ave., City of Industry, CA 91748 • (800) 423-6561 • Fax: (626) 965-9494 • www.ela-ligh ing.com • info@ela-lighting.com

lewis · lighting design | fixture type: G03

Rear Mount MR16 Flood MODEL FL1 12V, 50W Max., MR16 Halogen 12-24V, 10W or 12V, 12.5W LED Specifications: Body: Machined 6061-T6 aluminum, C36000 brass, available in 14 standard colors. On aluminum model, replaceable lenses, an L70 of 60,000 hrs., dynamic or 304 stainless steel body with 18-8 stainless steel finish is applied over a corrosion resistant, hexavalent transformer recognition, phase dimming (see chromium free, RoHS compliant coating. Aluminum Transformer and Dimmer Compatibility List), and Knuckle: Machined 6061-T6 aluminum, C36000 model available in one additional metal finish: Clear patented LEDSense* thermal management. Anodized. Brass model available in three additional orange of an Appendix of the second and fitting allows a full range of the second and secon 1/2" NPS threaded male fitting allows a full range of mounting positions. Double taper design (U.S. Patent 46, 66, 679) allows fixture to hold position during the finishes: Natural, Polished, and Brushed. Wet location landscape use (UL1838): #6,966,679) allows fixture to hold position during aiming and ensures a solid lock when tightened.

Socket: GY-6.35 porcelain socket with 600V, 250°C, FL1A - 50W Max. MR16 Halogen lamp. PTFE coated 18 ga leads. FL1B - 35W Max. MR16 Halogen lamp. Integral high temperature silicone O-ring prevents leaking between housing and knuckle. LED models Lens: Tempered, clear lens, secured to cap with a FL1S - 20W Max. MR16 Halogen lamp. have a molded silicone wire seal to prevent water high temperature, UV curing, silicone adhesive. Wet location wall mount use (UL1598): FL1A - 50W Max. MR16 Halogen lamp. entry at knuckle. Available Rotate and Lock option Lamps: FL1B - 20W Max. MR16 Halogen lamp. (U.S. Patent #7,108,405 & #7,458,552) allows for • 12 Volt bi-pin MR16 halogen up to 50 Watts FL1S - 20W Max. MR16 Halogen lamp full 360° horizontal aiming and locking. (maximum allowable wattage depends on model and application. See Certification heading). Wet location ceiling mount use (UL1598) Cap: Machined cap locks in place with one 18-8 FL1A - 20W Max. MR16 Halogen lamp. • 12-24 Volt AC/DC, 10W LED with High/Low stainless steel set screw, and is sealed to the body FL1B - 20W Max. MR16 Halogen lamp. with a high temperature silicone O-ring. Round C2 switch for 35W & 20W halogen equivalent FL1S - 20W Max. MR16 Halogen lamp & C4 caps have drain holes for water drainage from outputs. Requires up to 13W at startup, which top of lens. Square caps feature removable and field must be allowed for during system design. 10W LED & 12.5 LED can be used in all interchangeable cutoffs with 'flow-through' design • 12 Volt AC/DC, 12.5W LED with push button models and applications. for 360° drainage with no light leak. 'Flush Lens' selection of 4 outputs (50W, 35W, 20W & 12W All ratings subject to change without notice. See web cap styles incorporate a stepped lens to reduce the halogen equivalent). Requires up to 15W at startup, which must be allowed for during system site or contact V3 for most current info. collection of water and debris on the lens.



0.0		el ninum ss 1	Shape RND - Round SQ - Square ' ish ck BL - Black number BN - Bronze k WI - White een SI - Silver anite GY - Grey and a BE - Beige ina th th 28 FL1S only) n18 & FL1S only)	Cap Style Standard Lens: C1 - Flush C2 - Regress Lens C2L - Regress Lens C3 - Regress Lamp C4 - 45° Angled, Long Flush Lens: C1F - Flush C2F - Regress Lens C2LF - Regress Lens C2LF - Regress Lens C4LF - 45° Angled C4LF - 45° Angled, Long	MR16 0 - N 01 - E 02 - B 03 - F 04 - F 09 - E 10 - E	rd ³ & Lock ³ Halogen ¹ :	117 - 10W, 118 - 10W, 119 - 12.5W 120 - 12.5W	Lens Accy 0 - None L1 - Spread L2 - Linear L3 - Softening 3000K, 12° 6 3000K, 21° 5 3000K, 41° 6 V, 3000K, 34° 7 V, 3000K, 60° 7	Notes: 1. SQ shap 2. Allowable Certifica 3. K1 knuck 4. Only pow transform 5. Other co 6. Only the 7. 12.5% L1F calls C4LF calls	e wattage deper tion heading at le is protected in protected unde wer LED with ma hers (contact V3 or temperature: lens accessorie ED can only be o styles.	Louve 0 - None H1 - Honeyo model FL1A a dds on model a bove. under U.S. Patr U.S. Patr U.S. Patrol signetic or V3 a for transforme a available as a es can be used used with C2L		
	FL1B - AG 15 Vision3 I			02 - 0 - F2 - H1 x 607, Fowler, CA 9	3625	(559)	834-574	9 (559	cnange. 9) 834-47			st specification sheets. rision3lighting.cor	n

lewis · lighting design | fixture type: G03

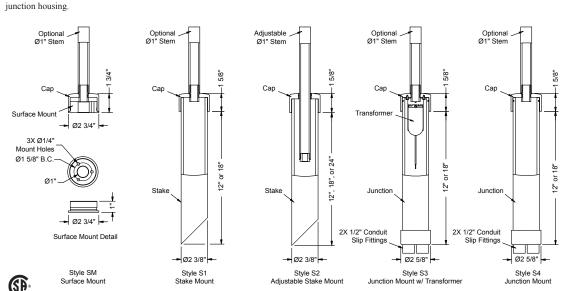
In Grade Stake Mount MODEL MO1 12/120/230/277 Volt, 75 Watt Max., Ø2 1/2" Stake Mount Specifications:

Housing: Stake and Junction housings made from corrosion resistant, Finish: TGIC thermo set polyester powder coat paint available in 14 standard

thermoplastic PVC. Junction housing is supplied with two integral 1/2" slip colors. On aluminum model, finish is applied over a corrosion resistant,

fittings allowing for conduit connection, leak proof cable entry, and feed through hexavalent chromium free, RoHS compliant coating. Aluminum model available

wiring. (Conduit and cable not included). in one additional metal finish: Clear Anodized, Brass model available in three Cap: Cap machined from 6061-T6 aluminum, C36000 brass, or 304 stainless additional metal finishes: Natural, Polished, and Aged. Stainless steel model steel. Cap contains a 1/2" NPS threaded mounting hole, and is locked to housing available in three additional metal finishes: Natural, Polished, and Brushed. Electrical: Style S3 transformer option includes a 75VA, 11.6V output, electronic with three 18-8 stainless steel set screws. Stem: Stems are machined from 6061-T6 aluminum, C36000 brass, or 304 transformer in 120V, 230V, or 277V input. Transformer mounted to cap with a stainless steel; and are threaded 1/2" NPS on both ends. Stem option available in 304 stainless steel bracket and 18-8 stainless steel hardware. lengths of 3", 6", 12", 18", 24", 30", 36", 42", and 48". Certification: CSA tested & certified to US and Canadian safety standards for Seals: O-ring groove on cap allows for use of an O-ring to prevent leaking wet location landscape use per UL 1838 (all except 230V model). between cap and fixture knuckle. (Note: All Vision3 fixtures come with a high temperature, black Viton O-ring on the knuckle for this purpose). On styles S3 and S4, a silicone O-ring between the cap and housing ensures a watertight



	Style SM Surface Mount	Style Stake N		Style S2 Adjustable Stake Mount		Style S3 ount w/ Transformer	Style S4 Junction Mount
				,			
Ordering	Information:						
.			_		_		_
						$\overline{}$	
	Model	Finish		Style	Transforn	ner Input Voltage	Stem
	MO1A - Aluminum	BL - Black	S0 - No Mount (Cap Or	ly)		Styles S1, S2, and S4 only)	
	MO1B - Brass	BLT - Textured Black	SM - Surface Mount		120 - 120 Volt Input		3 - 3" Stem
	MO1S - Stainless	BN - Bronze BNT - Textured Bronze		lable with up to 20" atom only)	230 - 277 Volt Input		6 - 6" Stem 12 - 12" Stem
		BAT - Textured Bark	,	lable with up to 36" stem only) lable with up to 36" stem only)	277 - 277 Volt Input	(Style 33 Offly)	18 - 18" Stem
		WI - White	,	,			24 - 24" Stem
		GRT - Textured Green		Stake (Available with 12" stem only			30 - 30" Stem
		SI - Silver		Stake (Available with 18" stem only Stake (Available with 24" to 48" ste			36 - 36" Stem
		GY - Grey	,	,	,		42 - 42" Stem
		BE - Beige		th Transformer (Available with up to			48 - 48" Stem
		GNT - Textured Granite SAT - Textured Sand		th Transformer (Available with up to vailable with up to 36" stem only)	36" stem only) '		
		PAT - Textured Patina	,	vailable with up to 36" stem only)			
		EAT - Textured Earth	O4-10 - 10 bulletion (A	valiable with up to so steril only)			
		CLA - Clear Anodized (MO1	1A only)			Notes:	1 2 7 7 1 / i
		NAT - Natural (MO1B & MO	O1S only)				277V input options may not be completely Blighting fixtures with integral LED module. Contact
		POL - Polished (MO1B & M	IO1S only)				patibility info if these options are being used with a
		AGE - Aged (MO1B only)	1			V3 LED fixture.	pationity into it those options are being used with a
		BRU - Brushed (MO1S only	y)			Specifications, certifica	tions, and ordering information are subject to change.

©2002 - 2013 **Vision3 Lighting**® P.O. Box 607, Fowler, CA 93625 (559) 834-5749 (559) 834-4779 fax www.vision3lighting.com

lewis lighting design | fixture type: G06

lewis · lighting design | fixture type: G04

Cambria 922 is a small dimmable LED or MR16 low voltage sign lighting vertical adjustment for easy aiming. Optional 24", 30" or 36" straight arms are available in lieu of the standard 14-3/8" arm. Various lenses, louvers and color or dichroic filters can be combined - up to three at once - to create multiple lighting effects. Lumiere's exclusive Siphon Protection System (S.P.S.) prevents water from siphoning into the fixture through its own lead



ISO 9001-2000 Quality Systems

Standard. IBEW union made.

Lumière warrants its fixtures

against defects in materials &

workmanship for three (3) years.

transformers, ballasts and lamps

carry the original manufacturer's

LUMIÈRE®

SPECIFICATION FEATURES

available.

revision 9/16/13

G ... Adjustable Mounting Arm K ... Lamp A ... Material Standard 14-3/8" straight arm with Halogen lamp not included Housing, hood, straight arm and wall mounting plate are precision-machined from adjustable side swivel provides Available from Lumiere as an 340° of vertical adjustment for easy accessory - see reverse side for prrosion-resistant billet stock aiming. Center rear swivel also details and catalog logic. LED 6061-T6 aluminum, C360 brass, available and has 33-1/6? straight modules are included and are C932 bronze, C110 copper or arm as standard, providing 195° of available in three color 303/304 stainless steel. vertical adjustment. Optional 24", temperatures (warm, neutral and cool) and three distributions (spot, 30" or 36" straight arms are B ... Finish available in lieu of standard length narrow and flood). Both color Fixtures constructed from 6061-T6 arms (specify option -SA24, -SA30 temperature and distribution must aluminum are double protected by or -SA36). Stainless steel be specified when ordering - see a chemical film undercoating and aim-locking mechanisms are polyester powdercoat paint finish, standard. 4-1/4" diameter wall logic. Due to the onboard thermal surpassing the rigorous demands mounting plate attaches directly to of the outdoor environment. A standard J-box with provided modules are non-dimmable. variety of standard colors are Siphon Protection System (S.P.S.) L ... Labels & Approvals

prevents water from siphoning into the fixture through its own lead

UL and cUL listed, standard wet label. IP65 rated. Manufactured to D ... Hood the fixture through its own lead Hood is removable for easy wires. relamping and accepts up to three internal accessories at once H ... Hardware (lenses, louvers, filters) to achieve Stainless steel hardware is multiple lighting effects. Weep holes prevent water and mineral corrosion-resistance. stains from collecting on the lens, even in the straight-up position. I ... Socket E ... Gasket Housing and hood are sealed with GU5.3 bi-pin base.

Ceramic socket with 250° C Teflon® coated lead wires and Remote 12V transformer required magnetic only, not electronic.

a high temperature silicone o-ring gasket to prevent water intrusion. Available from Lumiere as an Technical Data section of the catalog for details.

F ... Lens (not included). Transformers used Tempered glass lens, factory in conjunction with LED's must be sealed with high temperature adhesive to prevent water ntrusion and breakage due to accessory - see the Accessories & thermal shock.

pecifications and Dimensions subject to change without notice.

lewis · lighting design | fixture type: G06

POWER PIPE™ MOUNTING OPTION

OPTIONAL STABILITY FLANGE

-A

PROJECT:

TYPE:

REGISTERED LANDSCAPE ARCHITECT FOR BROWN SARDINA, INC.

CAMINO STAR™

CAMBRIA

50W (max.) MR16

922

10W LED

Low Voltage

Sign Light

3-16-17 | REVISIONS PER TOWN REQUEST 2-27-17 REVISIONS PER TOWN COMMENTS **REVISED PER PEER REVIEW** 2-7-17 AND TOWN COMMENTS

TOWN OF TOPSFIELD, MA

SITE PLAN REVIEW

DATE

3.16.2017

AND SPECIAL PERMIT

SITE PLAN AND SPECIAL PERMIT APPROVAL

SIGNA TURE

REV DATE DESCRIPTION APPLICANT\OWNER: SARKIS DEVELOPMENT COMPANY 2 ELM SQUARE

ANDOVER, MA 01810

RESIDENTIAL DEVELOPMENT **470 BOSTON STREET (ROUTE 1)** TOPSFIELD, MA

PROJECT NO. 2165-01A DATE: 10-13-2016 SCALE: NTS DWG. NAME: L-1.dwg **DESIGNED BY:** BDB CHECKED BY: ONL

Brown | Sardina

PREPARED BY:

PERMITTING

FOR

O

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SHEET No. **DRAWING TITLE:** GHTING CUT SHEETS L-4

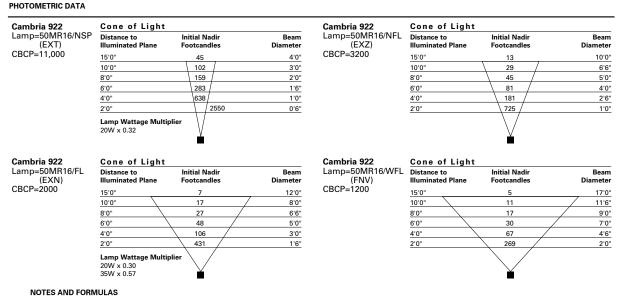
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lewis·lighting design | fixture type: G04

Lamp	Watts	Beam Spread	CBCP	°K	Life (hrs.)	Base	Volts
6LED2712	6	12°	3358	2700	50000	GU5.3 bi-pin	12
6LED2721	6	21°	937	2700	50000	GU5.3 bi-pin	12
6LED2741	6	41°	472	2700	50000	GU5.3 bi-pin	12
6LED3012	6	12°	3694	3000	50000	GU5.3 bi-pin	12
6LED3021	6	21°	1019	3000	50000	GU5.3 bi-pin	12
6LED3041	6	41°	646	3000	50000	GU5.3 bi-pin	12
6LED4012	6	12°	4280	4000	50000	GU5.3 bi-pin	12
6LED4021	6	21°	1179	4000	50000	GU5.3 bi-pin	12
6LED4041	6	41°	754	4000	50000	GU5.3 bi-pin	12
6LED5712	6	12°	4496	5700	50000	GU5.3 bi-pin	12
6LED5721	6	21°	1275	5700	50000	GU5.3 bi-pin	12
6LED5741	6	41°	792	5700	50000	GU5.3 bi-pin	12
10LED2712	10	12°	5037	2700	50000	GU5.3 bi-pin	12
10LED2721	10	21°	1406	2700	50000	GU5.3 bi-pin	12
10LED2741	10	41°	708	2700	50000	GU5.3 bi-pin	12
10LED3012	10	12°	5513	3000	50000	GU5.3 bi-pin	12
10LED3021	10	21°	1521	3000	50000	GU5.3 bi-pin	12
10LED3041	10	41°	964	3000	50000	GU5.3 bi-pin	12
10LED4012	10	12°	6389	4000	50000	GU5.3 bi-pin	12
10LED4021	10	21°	1759	4000	50000	GU5.3 bi-pin	12
10LED4041	10	41°	1125	4000	50000	GU5.3 bi-pin	12
10LED5712	10	12°	6711	5700	50000	GU5.3 bi-pin	12
10LED5721	10	21°	1903	5700	50000	GU5.3 bi-pin	12
10LED5741	10	41°	1182	5700	50000	GU5.3 bi-pin	12
50MR16/NSP	50	12°	11,000	3050	4000	GU5.3 bi-pin	12
50MR16/NSL	50	25°	3200	3050	4000	GU5.3 bi-pin	12
50MR16/FL	50	40°	2000	3050	4000	GU5.3 bi-pin	12
50MR16/WFL	50	60°	1200	3050	4000	GU5.3 bi-pin	12

lewis · lighting design | fixture type: G04



8'0"	27 6'6"	8'0"	17 9'0"
6'0"	48 5'0"	6'0"	30 7'0"
4'0" 1	106 3'0"	4'0"	67 4'6"
2'0"	131 / 1'6"	2'0"	269 2'0"
Lamp Wattage Multiplier 20W × 0.30 35W × 0.57			
NOTES AND FORMULAS			
Beam diameter is to 50% of maximur	n footcandles, rounded to th	ne nearest half-foot.	
• Footcandle values are initial. Apply a	nnronriate light loss factors	where necessary	
		•	
 Bare lamp data shown. Consult lamp 	manufacturers to obtain det	alled specifications for their lamps.	
Sample Number: 922-10LED2712-120/12-BK-F70			
Sample Hamber, SEE TOLLESE, TE TEO, TE DKT 70			
Series	Voltage	Accessories	
922 = LED or MR16 Cambria Sign Light, Standard	12 = 12 Volt Remote	<u>Filters</u>	Lamps for MR16
14-3/8" Straight Arm, Side Stem, Single Head	Transformer Requi	ired F71 =Peach Dichroic Filter, 2.00" Dia	EZX = 20W MR16 GU5.3 Bi-Pin Very Narrow Spot
		F72 =Amber Dichroic Filter, 2.00" Dia	BAB = 20W MR16 GU5.3 Bi-Pin Flood
922-CRS = LED or MR16 Cambria Sign Light, Stand		F73 =Green Dichroic Filter, 2.00" Dia	FRA = 35W MR16 GU5.3 Bi-Pin Spot
33-1/16" Straight Arm, Center Rear Swive		F74 =Medium Blue Dichroic Filter, 2.00" Dia	EXT = 50W MR16 GU5.3 Bi-Pin Narrow Spot
Single Head	<u>Painted</u>	F75 =Yellow Dichroic Filter, 2.00" Dia	EXN = 50W MR16 GU5.3 Bi-Pin Flood
	BK = Black	F76 =Red Dichroic Filter, 2.00" Dia	ESX = 20W MR16 GU5.3 Bi-Pin Narrow Spot
	BZ = Bronze	F77 =Dark Blue Dichroic Filter, 2.00" Dia	FRB = 35W MR16 GU5.3 Bi-Pin Narrow Spot
Source	CS = City Silver	F78 =Light Blue Dichroic Filter, 2.00" Dia	FMW = 35W MR16 GU5.3 Bi-Pin Flood
50MR16 = 50W Max Halogen MR16, GU5.3 Base	VE = Verde	F79 =Neutral Density Dichroic Filter, 2.00" Di	a EXZ = 50W MR16 GU5.3 Bi-Pin Narrow Flood
6LED2712 = 6W 2700K, 12° Spot, GU5.3 Base	WT = White	F80 =Magenta Dichroic Filter, 2.00" Dia	FNV = 50W MR16 GU5.3 Bi-Pin Very Wide Flood
6LED2721 = 6W 2700K, 21° Narrow, GU5.3 Base		F22 =Red Color Filter, 2.00" Dia	
6LED2741 = 6W 2700K, 41° Wide, GU5.3 Base		F33 =Blue Color Filter, 2.00" Dia	
6LED3012 = 6W 3000K, 12° Spot, GU5.3 Base		F44 =Green Color Filter, 2.00" Dia	
6LED3021 = 6W 3000K, 21° Narrow, GU5.3 Base		F55 =Yellow Color Filter, 2.00" Dia	
6LED3041 = 6W 3000K, 41° Wide, GU5.3 Base		F66 = Mercury Vapor Color Filter, 2.00" Dia	
6LED4012 = 6W 4000K, 12° Spot, GU5.3 Base		Optical Lenses	
6LED4021 = 6W 4000K, 21° Narrow, GU5.3 Base		LSL = Linear Spread Lens (elongate standard	beam spread), 2.00" Dia
6LED4041 : 6W 4000K, 41° Wide, GU5.3 Base		OSL = Overall Spread Lens (increase beam s	pread), 2.00" Dia
6LED5712 = 16W 5700K, 12° Spot, GU5.3 Base		DIF = Diffused Lens (provide even illumination	n), 2.00" Dia
6LED5721 - 6W 5700K, 21° Narrow, GU5.3 Base		Optical Louver	
6LED5741 = 6W 5700K, 41° Wide, GU5.3 Base		LVR = Hex Cell Louver (reduce glare), 2.00" E	Dia
10LED2712 = 10W 2700K, 12° Spot, GU5.3 Base			
10LED2721 = 10W 2700K, 21° Narrow, GU5.3 Base			
10LED2741 = 10W 2700K, 41° Wide, GU5.3 Base			adad la MD16 assalas
10LED3012 = 10W 3000K, 12° Spot, GU5.3 Base			uded in MR16 version.
10LED3021 = 10W 3000K, 21° Narrow, GU5.3 Base		See ACCESSOF * Mounting Aco	RIES & TECHNICAL DATA section of the Lumière catalog for
10LED3041 = 10W 3000K, 41° Wide, GU5.3 Base		-	Cooper Lighting representative for additional options and
1			

CAMINO STAR™ T4 Halogen PROJECT: TYPE: CATALOG NUMBER: SOURCE: **CATALOG NUMBER LOGIC** Material — Blank - Aluminum
B - Brass (Style 'D' Only) Series — **CS** - Camino Star™ Pathlight Source -LV - Low Voltage T4 Halogen 0 - By Others 20 - (20W) Q20T-4/CL-12V 64 - (35W) Q35T-4/CL-12V 65 - (50W) Q50T-4/CL-12V Aluminum & Brass Finishes Powder Coat Color Satin Wrinkle Machined MAC ABP Antique Brass Powder CMG Cascade Mountain Granite RMG Rocky Mountain Granite Polished POL Bronze BZP BZW AMG Aleutian Mountain Granite CRI Cracked Ice SDS Sonoran Desert Sandston BLP BLW Black AQW Antique White CRM Cream SMG Sierra Mountain Granite White (Gloss) WHP WHW BCM Black Chrome TXF Textured Forest HUG Hunter Green Aluminum SAP BGE Beige MDS Mojave Desert Sandstone WCP Weathered Copper CAP Clear Anodized Powder OCP Old Copper Style — C, D*, E, G, G1, G2, H, K Base (Specify in inches) ——— 6 - 6" with Anchor Base (Standard)
18 - 18" with Anchor Base
2 - 12" with Anchor Base
24 - 24" with Anchor Base PP12 - 12" Power Pipe™ Stake Mounting PP18 - 18" Power Pipe™ Stake Mounting
SF - Stability Flange (for use with Power Pipe™) Transformer Options —

AMP DATA				
BK No.	Lamp Watts	D	escription	
20	20	Т	-4/CL-12V	
64	35	T-4/CL-12V		
65	50	T-4/CL-12V		
		40429 Brickyard Drive • Madera, CA 93636 • USA	RELEASED	DRAWING NUMBER
B-K LIGHTING		559.438.5800 • FAX 559.438.5900 www.bklighting.com • info@bklighting.com	01-26-16	SUB-2238-00



Specifications and Dimensions subject to change without notice. umiere • Customer First Center • 1121 Highway 74 South • Peachtree City, GA 30269 • TEL 770,486,4800 • FAX 770,486,4801

COOPER Lighting www.cooperlighting.com

10LED4012 = 10W 4000K, 12° Spot, GU5.3 Base

10LED4021 = 10W 4000K, 21° Narrow, GU5.3 Base

0LED4041 = 10W 4000K, 41° Wide, GU5.3 Base 10LED5712 = 10W 5700K, 12° Spot, GU5.3 Base

10LED5721 = 10W 5700K, 21° Narrow, GU5.3 Base

10LED5741 = 10W 5700K, 41° Wide, GU5,3 Base

Specifications and Dimensions subject to change without notice.

04/10/2013 12:53:59 PM

L75E-120 - Integral 75VA Electronic 120V Transforme L75E-230 - Integral 75VA Electronic 230V Transforme L75E-277 - Integral 75VA Electronic 277V Transforme

> **B-K LIGHTING** Stamp Applied on 03/15/2017

For use with 20 - 50 watt , T4 Halogen lamp.

Body
Fully machined from solid billet. Design provides endosed, water-proof
Hardware

wireway and integral heat sink for maximum component life. High temperature, silicone 'O' Ring provides water-tight seal.

T4 Halogen

= 21/4 Db (57mm)

ANCHOR BASE

SPECIFICATIONS

STYLE

5 1/2 DI (140mm)

12" BASE (305mm)

GreenSource Initiative*

Metal and packaging components are made from recycled materials.

Manufactured using renewable solar energy, produced on site.

Returnable to manufacturer at end of life to ensure cradie-to-cradie

handling. Packaging contains no chlorofluorocarbins (ECCs).

Berein Fower Pipe* for direct burial into soil or concrete. Power Pipe*

18' Power Pipe* for direct burial into soil or concrete. Power Pipe*

18' Power Pipe* for direct burial into soil or concrete. Power Pipe*

18' Power Pipe*

18' TisiC polyester powder coating Brass components are available in powder coat or handcrafted metal finish.

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28' Arranty

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28' TisiC polyester powder coating Brass components are available in powder coat or handcrafted metal finish.

Materials

Furnished in Copper-Free Aluminum (Type 6061-T6). Style 'D' is additionally available in Brass (Type 360).

Transformer

For use with 12VAC remote transformer. Also available with optional integral, electronic transformer. 120V, 230V, and 277V primary voltage.

Certification and Listing
UL Listed. Certified to CAN/CSA/ANSI Standards. RoHs compliant.
Suitable for indoor or outdoor use. Suitable for use in wet locations.

Socket Spedfication grade ceramic body miniature bi-pin quartz lamp holder.

For use with 12VAC remote transformer. Also available with optional additionally available in Brass (Type 360).

Style

Style

For use with 12VAC remote transformer. Also available with optional integral, electronic transformer. 120V, 230V, and 272V primary voltage.

120V is fully dimmable (40W minimum load). 50/60Hz. 11.6V secondary voltage.

10 wat t minimum load (Halogoepin non-dimmed. 75 watt maximum load). 50/60Hz. 16.V secondary voltage.

10 wat tminimum load (Halogoepin non-dimmed. 75 watt maximum load). 50/60Hz. Soft start circuitry to extend lamp life.

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11 which is registered trademant of DuPont Corporation.

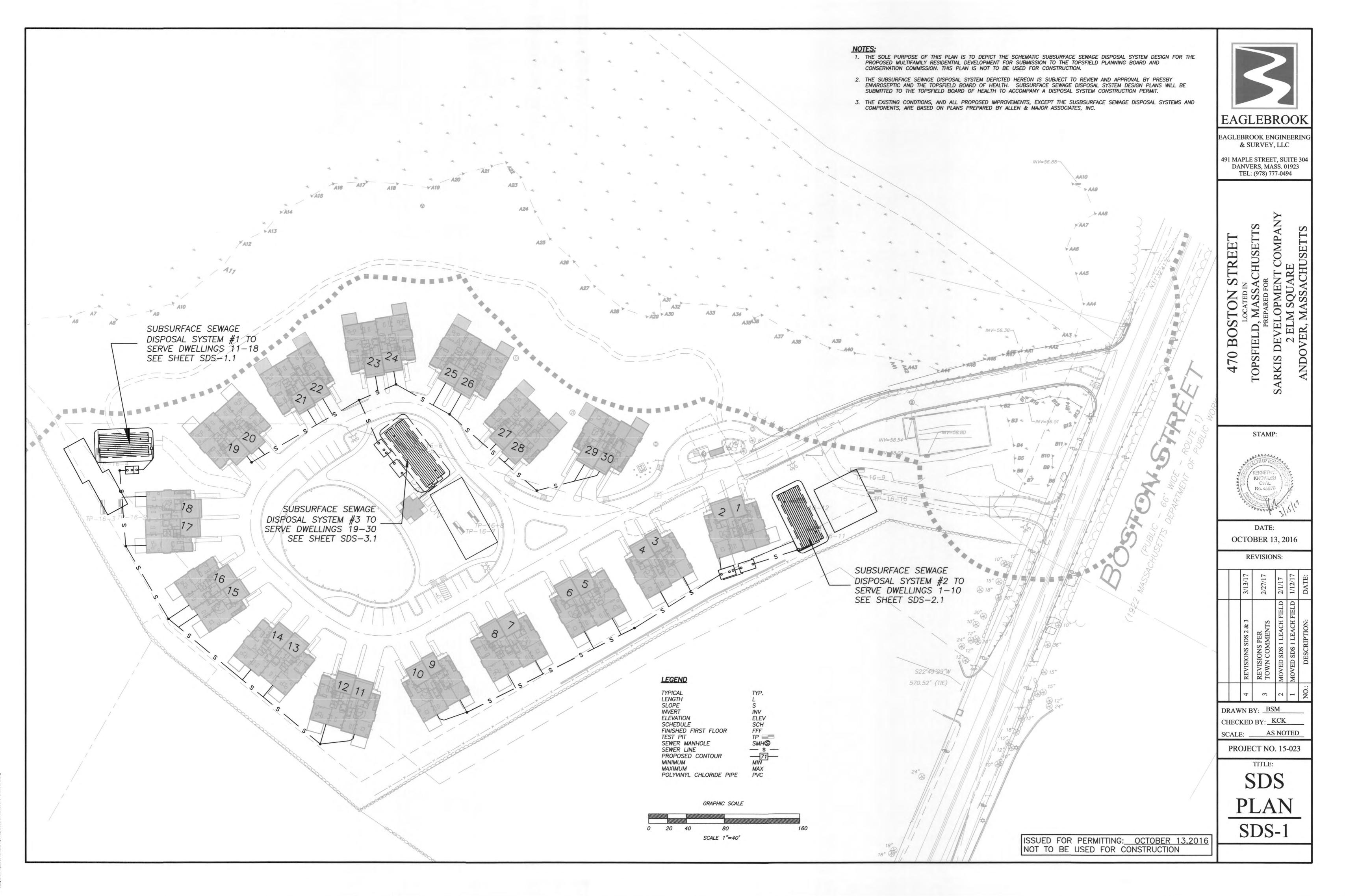
12 which is registered trademant of DuPont Corporation.

Tamper-resistant, stainless steel hardware

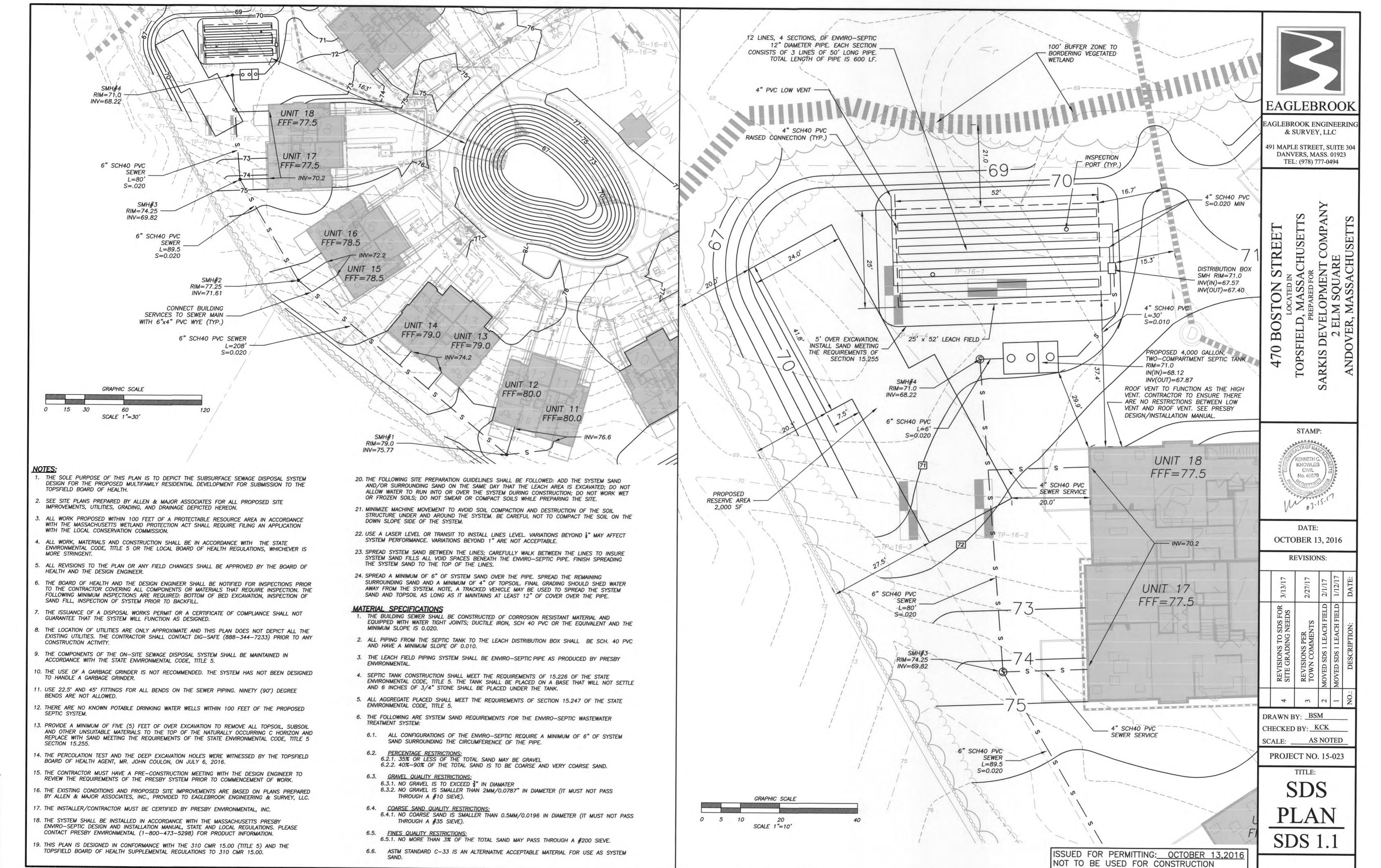
18" BASE (457mm)

Contact Technical Sales if you require more stringent specifications

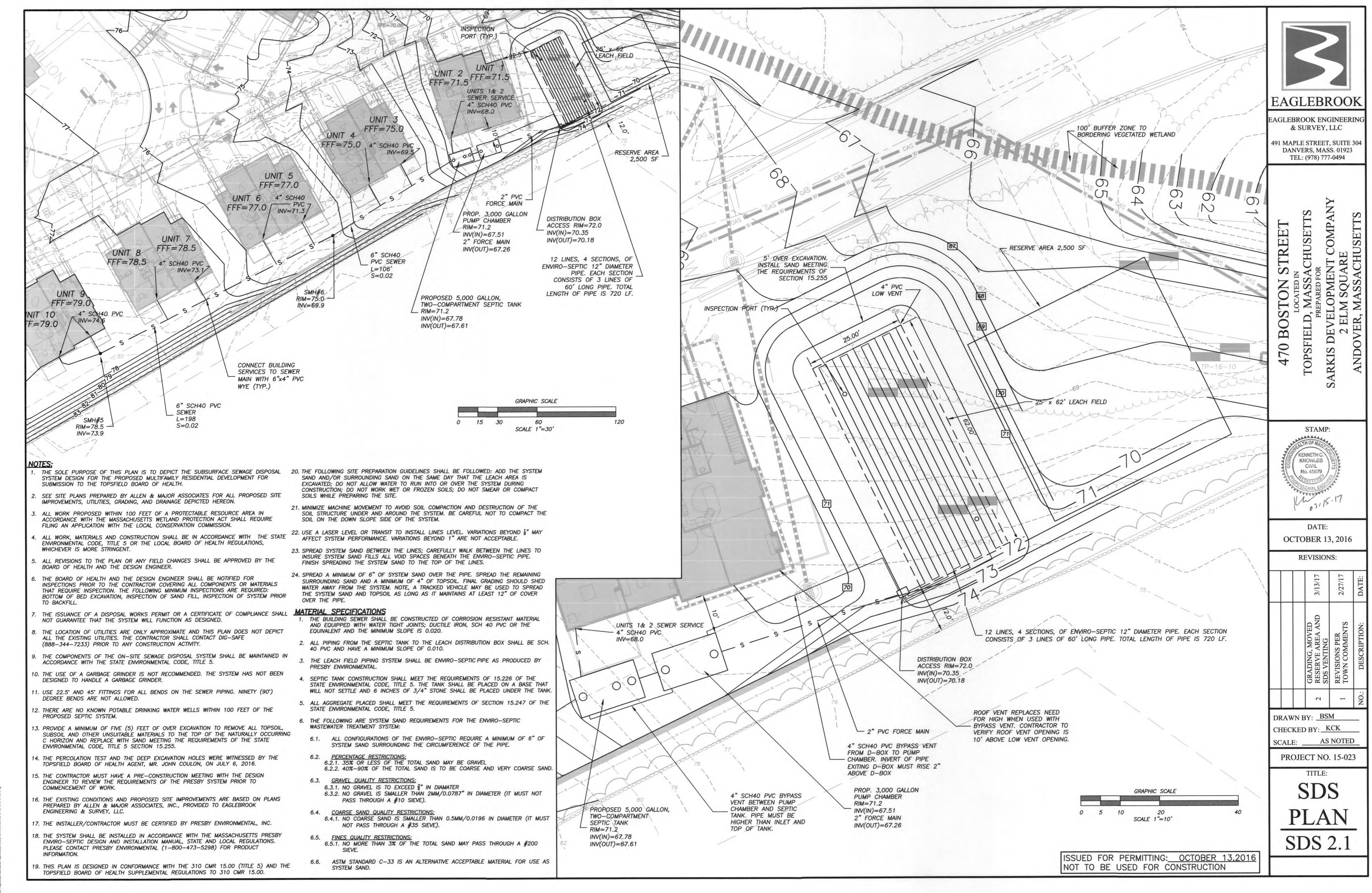
01-26-16 SUB-2238-00



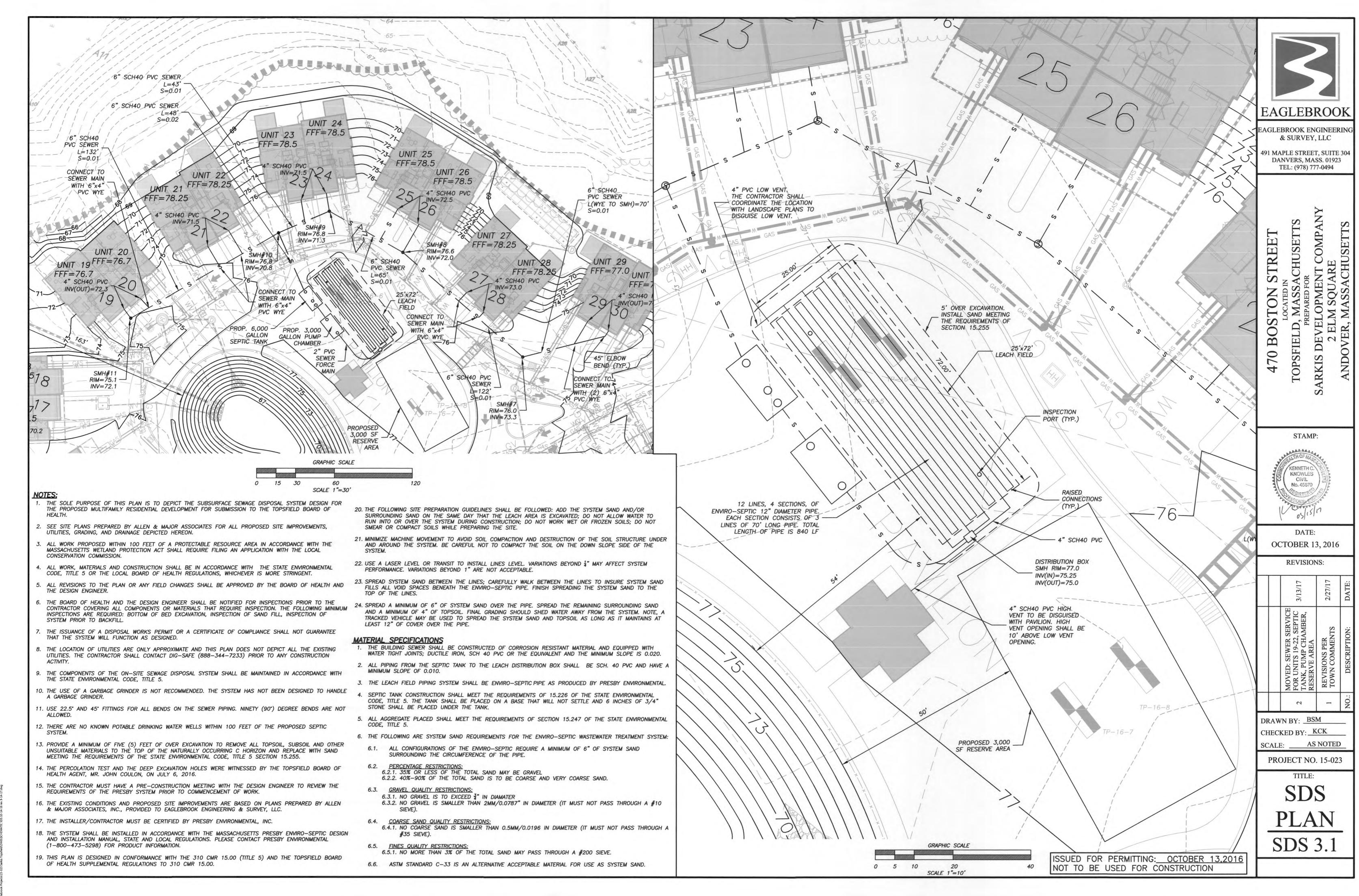
Sarkis Tonofield/DWG\SCHEMATIC SDS 10-14-16 nev 3-14-17 dwo

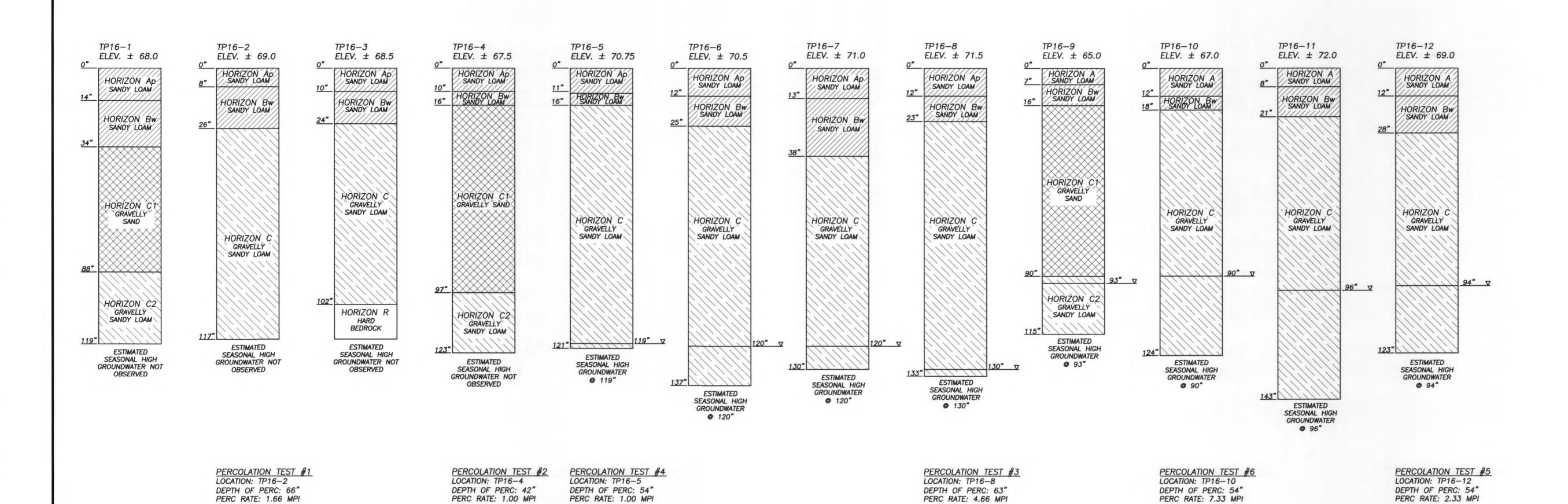


glebrook Projects\15-023 Sarkis Topsfield\DWG\SCHENATIC SDS 10-14-16 rev 3-14-17 dwg



ob Projectes 15,023 Sarkie Transfalch DWGASCHEMATIC SDS 10-14-16 rav 3-14-17 dwo





TEST PIT NOTES:

1. SOIL SUITABILITY ASSESSMENT WAS PERFORMED BY ALEXANDER F. PARKER ON JULY 6, 2016. THE ASSESSMENT WAS WITNESSED BY THE TOPSFIELD DIRECTOR OF PUBLIC HEALTH, MR. JOHN COULON.

EAGLEBROOK

EAGLEBROOK ENGINEERING & SURVEY, LLC

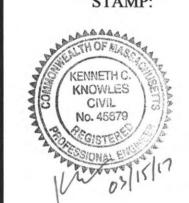
491 MAPLE STREET, SUITE 304 DANVERS, MASS. 01923

TEL: (978) 777-0494

470 BOSTON STREET

LOCATED IN
TOPSFIELD, MASSACHUSETTS
PREPARED FOR
SARKIS DEVELOPMENT COMPANY
2 ELM SQUARE
ANDOVER, MASSACHUSETTS

STAMP:



DATE: OCTOBER 13, 2016

REVISIONS:

		2/27/17	DATE:
		REVISIONS PER TOWN COMMENTS	DESCRIPTION:
		П	NO.:

DRAWN BY: BSM

CHECKED BY: KCK

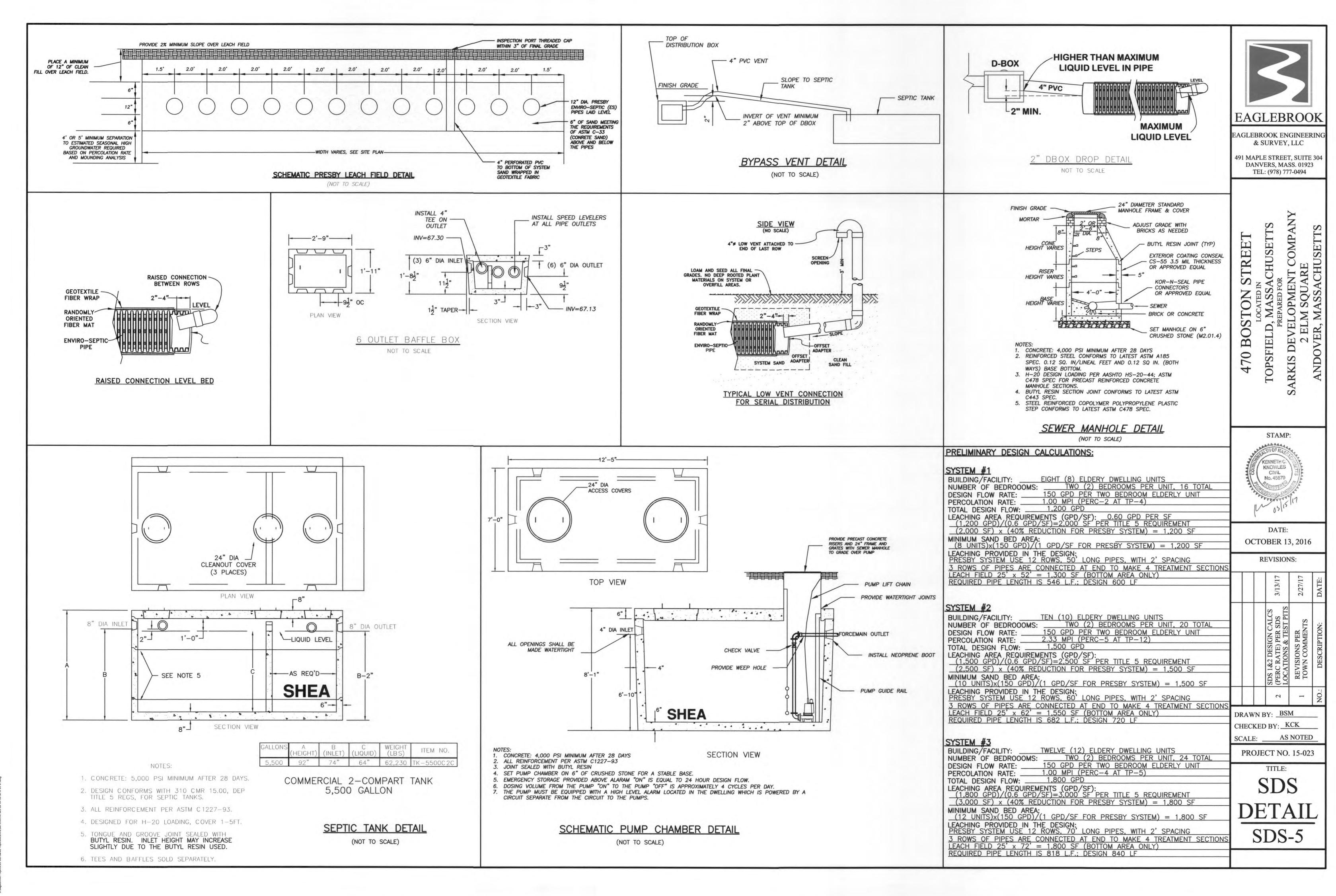
SCALE: AS NOTED

PROJECT NO. 15-023

TITLE:

SDS PLAN SDS-4

ISSUED FOR PERMITTING: OCTOBER 13,2016
NOT TO BE USED FOR CONSTRUCTION



GA Employmond Declared 1E, 173 Employ Transfold PIMPS COURTABIT OF C 10, 14, 16 pm, 2, 14, 17 Aug