STRUCTURE SCHEDULE

ITEMS	RIM/GRT	INVERT
SMH1	177.26	171.1
SMH2	178.77	SEALED
SMH3	184.09	175.7
SMH4	189.67	180.6
SMH5	191.35	183.5
SMH6	206.81	200.1
SMH7	211.37	201.3
SMH8	188.24	184.1
SMH9	214.17	204.5
SMH10	203.31	197.8
		(N.P.V.)
SMH11	206.98	200.8(A)
		200.6(B)
		200.5(C)
SMH12	207.02	203.1
MH1	174.86	F.O.W.
MH2	194.60	190.4
MH3	194.20	SEALED
MH4	193.40	190.6
MH5	183.41	4" ENCLOSED PIPE
		T.O.P.=181.4±
MH6	182.97	179.9(A)
		179.8(B)
MH7	183.37	U.T.O
		(BROKEN COVER)
MH8	183.89	4" ENCLOSED PIPE
		T.O.P.=181.2±
		T.O.C.=180.5±
MH9	184.69	180.1
MH10	185.03	BOT=178.0±
		(F.O.W.)
MH11	185.17	OBSTRUCTED BY
		PARKED VEHICLE
MH12	185.41	183.6±
		F.O.D.
MH13	185.51	BOT=172.9±
		F.O.W.
MH14	185.61	SEALED
MH15	185.79	BOT=178.2±
		F.O.D.
MH16	185.87	BOT=177.8±
F.O.D.		
MH17	185.99	184.3
MH18	186.00	178.5±
MH19	186.80	179.7(A)
		179.5(B)
		179.3(C)
		179.1(D)
MH20	186.21	179.7(A)
		179.5(B)
MH21	185.81	BOT=180.1±
MH22	185.78	BOT=176.7±
		N.V.P.
MH23	186.02	182.1±
		BOT=176.8±
MH24	186.73	180.6
MH25	187.27	183.4
		BOT=183.3±
MH26	187.94	183.8(A)
		186.4(B)
MH27	188.54	181.1
		BOT=183.1±
MH28	188.96	OBSTRUCTED BY
		PARKED VEHICLE
MH29	204.85	W.L.=199.8±
		F.O.W.
MH30	207.03	SEALED
MH31	207.06	F.O.D.,IN.V.P.
MH32	186.83	INV.=185.23±
		BOT=182.4± F.O.W.
MH33	212.50	UNABLE TO
		OPEN
DMH1	174.88	169.6(A)
		168.6(B)
		168.3(C)
DMH2	185.13	180.5(A)
		178.5(B)
DMH3	192.50	186.6
DMH4	189.52	OBSTRUCTED BY
		PARKED VEHICLE
DMH5	189.67	185.1
DMH6	188.48	185.1(A)
		181.6(B)
		181.4(C)
DMH7	185.23	182.6(A)
		176.5(B)
		176.4(C)
DMH8	181.91	179.5(A)
		179.8(B)
		BOT=167.4±
DMH9	183.36	180.0(A)
		179.8(B)
DMH10	211.28	209.8(A)
		208.9(B)
DMH11	209.4	206.4(A)
		205.4(B)
DMH12	211.57	206.4
DMH13	181.5	174.4±
CB1	174.78	171.1±
CB2	174.63	169.7±
CB3	184.91	181.4±
CB4	185.11	180.8±
CB5	188.71	F.O.D.
CB6	189.59	186.8±
CB7	188.26	186.1±
CB8	184.74	182.8
CB9	191.02	178.6
CB10	181.54	176.6(A)
		BOT=175.3±
CB11	177.26	BOT=170.6±
		(N.V.P.)
CB12	181.24	
CB13	182.81	BOT=177.3±
CB14	181.37	178.0
		BOT=171.0±
CB15	206.27	202.5(A)
		202.4(B)
CB16	209.47	205.9(A)
		206.2(B)
CB17	210.32	205.8
CB18	210.27	208.2±
		(PIPE CLOSED)
CB19	182.25	
CB20	192.86	
CB21	181.3	179.1

GC TO VERIFY CROSS-SLOPE ON SIDEWALKS DO NOT EXCEED 2% AND RUNNING SLOPES DO NOT EXCEED 6%

GC TO USE A SEGMENTAL WALL AND/OR RAILROAD TIE TREE PIT IF NECESSARY TO ENSURE TREE IS BASE IS KEPT AT EXISTING GRADE (TYP.)

GC TO VERIFY GRADES WITHIN HANDICAP PARKING AREAS AND ACCESSIBLE ROUTES DO NOT EXCEED 2% IN ANY DIRECTION

GC TO VERIFY STRUCTURE CAN ACCOMMODATE NEW CONNECTION AND REPLACE STRUCTURE IF NEEDED

GC TO VERIFY GRADES WITHIN HANDICAP PARKING AREAS AND ACCESSIBLE ROUTES DO NOT EXCEED 2% IN ANY DIRECTION

GC TO TIE IN ALL SURFACE GUTTERS TO UNDERGROUND EXISTING DRAINAGE

GC TO TIE IN ALL SURFACE GUTTERS TO UNDERGROUND EXISTING DRAINAGE

GC TO VERIFY GRADES WITHIN HANDICAP PARKING AREAS AND ACCESSIBLE ROUTES DO NOT EXCEED 2% IN ANY DIRECTION

GC TO REMOVE PAVEMENT NECESSARY FOR TRENCHING OF DRAINAGE LINE AND BACKFILL, COMPACT AND REPAVE PER THE HEAVY DUTY PAVEMENT SECTION ON THE DETAIL SHEETS

MAIN STREET
(A.K.A. MASSACHUSETTS STATE HIGHWAY (ROUTE 27))
(PUBLIC - 59' WIDE - COUNTY LAYOUT)

APPROX. LOC. OF ENT. (NOT FIELD VERIFIED)

APPROX. LOC OF MH

EXISTING FF 211.38'

FF 207.84'

EXISTING FF 189.86'

EXISTING FF 186.85'

EASEMENT

EASEMENT "A"

BENCHMARK 3
MAG NAIL SET IN PAVEMENT
ELEVATION=191.01'

ALL MATERIALS TO CONFORM TO TOWN OF ACTON STANDARDS

THIS PLAN TO BE UTILIZED FOR SITE GRADING PURPOSES ONLY

REFER TO GENERAL NOTES SHEET FOR GRADING & UTILITY NOTES

NOTE: ELEVATIONS ARE BASED ON NGVD 1929 DATUM IN ACCORDANCE WITH NOTE 8 ON THE ALTA/ACSM SURVEY PREPARED BY CONTROL POINT ASSOCIATES.

SEE GRADING & DRAINAGE PLAN A

SEE GRADING & DRAINAGE PLAN B

SEE GRADING & DRAINAGE PLAN A

SEE GRADING & DRAINAGE PLAN B

Know what's below. Call before you dig.

20 10 5 0 20
1"= 20'

BOHLER ENGINEERING

CIVIL & CONSULTING ENGINEERS
SURVEYORS
PROJECT MANAGERS
ENVIRONMENTAL CONSULTANTS
LANDSCAPE ARCHITECTS

CORPORATE OFFICE:
352 TURNPIKE ROAD
SOUTHBOROUGH, MA
(508) 480-9900

OFFICES:
♦ SOUTHBOROUGH, MA
♦ CHALFONT, PA
♦ NEW HOPE, PA
♦ WILMINGTON, DE
♦ STERLING, VA
♦ TOWSON, MD
♦ WASHINGTON, DC
♦ FORT LAUDERDALE, FL
♦ RICHMOND, VA
♦ ROANOKE, VA
♦ KISSIMMEE, FL
♦ ISMAILIA, EGYPT

THE INFORMATION CONTAINED ON THIS DRAWING IS THE SOLE PROPERTY OF BOHLER ENGINEERING AND ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF BOHLER ENGINEERING IS PROHIBITED. ANY USE OF THIS DRAWING WITHOUT THE EXPRESS WRITTEN CONSENT OF BOHLER ENGINEERING SHALL BE AT THE RECIPIENT'S SOLE RISK AND WITHOUT LIABILITY TO BOHLER ENGINEERING. VISUAL CONTACT WITH THESE PLANS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

REVISIONS

REV	DATE	COMMENT	BY
1	1/16/13	REVISED PARKING LAYOUT PER CLIENT	KBS
2	2/25/13	REVISED PER CLIENT MEETING	KBS
3	3/20/13	REVISED PER CLIENT COMMENTS AND ARCH.	KBS
4	4/30/13	REVISED PER CLIENT COMMENTS	KBS
5	5/20/13	REVISED PER TOWN / CLIENT COMMENTS	KBS

PRELIMINARY

PROJECT No.: W111028
DRAWN BY: KBS
CHECKED BY: JGS
DATE: 10/22/2012
SCALE: AS NOTED
CAD I.D.: W111028SS5

PROJECT:
SITE DEVELOPMENT PLANS
FOR
EDENS.

LOCATION OF SITE
LOTS 81, 89, 89-1, 97, 97-1, 98 & 115, MAP F3
MASSACHUSETTS AVENUE & MAIN STREET
TOWN OF ACTON
MIDDLESEX COUNTY, MA

BOHLER ENGINEERING
352 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
Phone: (508) 480-9900
Fax: (508) 480-9080
www.BohlerEngineering.com

W.D. GOEBEL
COMMONWEALTH OF MASSACHUSETTS
WILLIAM D. GOEBEL
PROFESSIONAL ENGINEER
MASSACHUSETTS LICENSE No. 43844
RHODE ISLAND LICENSE No. 13064
CONNECTICUT LICENSE No. 21654
NEW HAMPSHIRE LICENSE No. 19280
MAINE LICENSE No. 9490
NEW YORK LICENSE No. 071284-1

SHEET TITLE:
GRADING & DRAINAGE PLAN A

SHEET NUMBER:
6
OF 11

REV 5 - 05/20/2013

P:\111W\111028\ZONING\W111028SS5.dwg, BMMB, 4/23/2013, 08:17:14 AM, Lowden, Xerox5510-pc3, User(Init. L.)