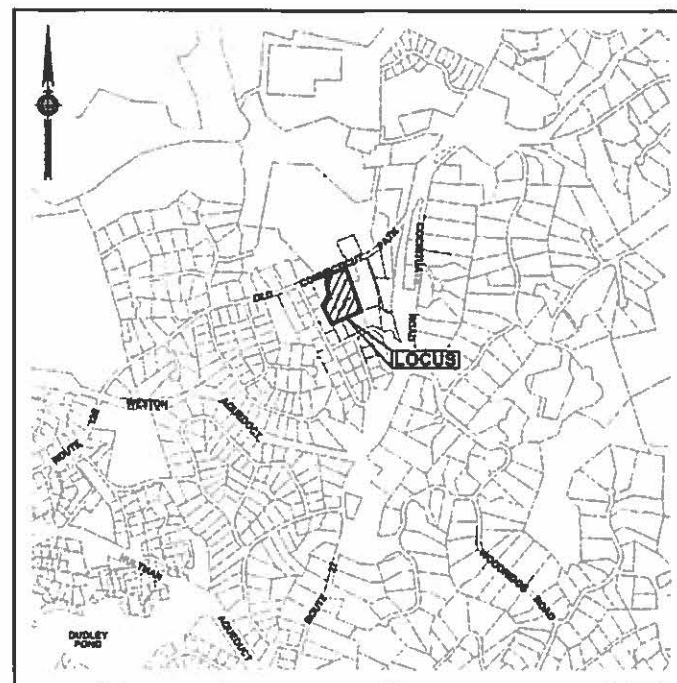
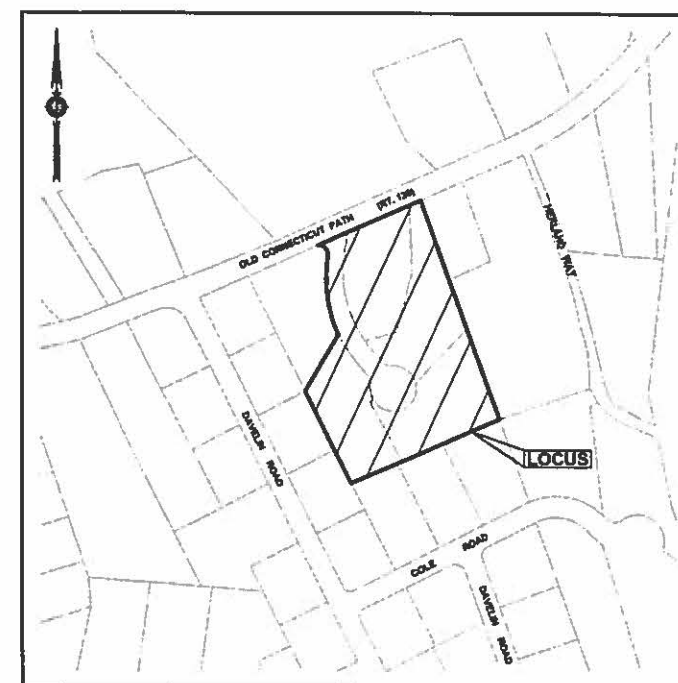


for
"WHITTEMORE PLACE"

in
Wayland, Massachusetts



KEY PLAN
1" = 1,000'



INDEX PLAN
1" = 200'

DATE _____

I HEREBY CERTIFY THAT NO NOTICE OF APPEAL WAS RECEIVED DURING THE TWENTY DAYS NEXT AFTER RECEIPT AND RECORDING OF NOTICE FROM THE PLANNING BOARD OF THE APPROVAL OF THIS PLAN.

TOWN CLERK

DATE _____

I CERTIFY THAT THE PREPARATION OF THIS PLAN
CONFORMS TO THE RULES AND REGULATIONS OF THE
REGISTERS OF DEEDS.

PROFESSIONAL LAND SURVEYOR

DATE _____

I CERTIFY THAT THE ACTUAL SURVEY OF THE BOUNDARY LINES OF THIS TRACT OF LAND WAS MADE ON THE GROUND IN ACCORDANCE WITH THE SPECIFICATIONS IN THE "ETHICAL, PROCEDURAL AND TECHNICAL STANDARDS FOR THE PRACTICE OF LAND SURVEYING IN THE COMMONWEALTH OF MASSACHUSETTS", AS PREPARED AND ADOPTED BY THE MASSACHUSETTS ASSOCIATION OF LAND SURVEYORS AND CIVIL ENGINEERS, INC., PART II TECHNICAL STANDARDS, A. 2.

PROFESSIONAL LAND SURVEYOR DATE 1-11-2017

RECORD OWNERS

MARK S. KLEMPNER, AS TRUSTEE OF FRANCES
BORGER KLEMPNER QTIP TRUST, AND AS TRUSTEE OF

FRANCES BORGER KLEMPNER NON-QTIP MARITAL TRUST (54336/44) LOTS 2, 3, 4 AND FEE IN WAY

DAVID M. GREEN AND TRACI C. GREEN
(68434/526) LOT 1

SHEET INDEX

CE-1	KEY PLAN
CE-2	DEFINITIVE PLAN
CE-3	GRADING PLAN
CE-4	PLAN & PROFILE
CE-5	DETAIL PLAN
CE-6	DETAIL PLAN

**DEFINITIVE
SUBDIVISION
AMENDMENT**

WAYLAND, MASSACHUSETTS 01778

ASSESSORS: MAP: 38
PARCELS: 15B, 15C, 15D, 15E

PREPARED FOR:

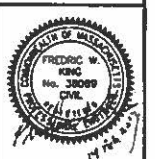
**MARK S.
KLEMPNER**

162 BEACON STREET
BOSTON, MASSACHUSETTS 02116

SCHOFIELD BROTHERS LLC
ENGINEERING ♦ SURVEYING ♦ PLANNING ♦ GIS

1071 WORCESTER ROAD
FRAMINGHAM, MA 01701
508-879-0030
www.schofieldbros.com

COPYRIGHT © 2017, BY SCHOFIELD BROTHERS LLC

[illegible]

NO.	APP.	DATE	DESCRIPTION
-----	------	------	-------------

DATE: FEBRUARY 14, 2017

SCALE: **AS NOTED**

DRAFTED: HMP / KMR	CHECKED: DWH / FWK	APPROVED: DWH / FWK
-----------------------	-----------------------	------------------------

KEY PLAN

PROJECT NO. 25029
SHEET 1 OF 6

NOTES

- ASSESSORS REFERENCE: MAP #38, LOTS 15B, 15C, 15D, AND 15E
- RESIDENTIAL ZONE: SINGLE RESIDENCE - SR 40,000 S.F. - 180' FRONTAGE
- PRIOR TO ANY CONSTRUCTION OF THE SUBDIVISION, THE "GRANT OF DRAINAGE EASEMENT" (FORM N) AND THE "APPROVAL OF COVENANT CONTRACT" (FORM I) SHALL BE RECORDED AT THE SOUTH MIDDLESEX DISTRICT REGISTRY OF DEEDS, WITHIN TWO MONTHS AFTER PLANS ARE ENDORSED BY THE PLANNING BOARD, WITH EVIDENCE OF SUCH PROVIDED WITHIN TEN DAYS OF RECORDING TO THE PLANNING BOARD.
- NO STRUCTURE WITHIN THE SUBDIVISION SHALL BE ALLOWED TO BE OCCUPIED UNTIL THE FIRE ALARM SYSTEM, AS SHOWN ON THE PLANS, IS INSTALLED AND OPERATING.
- AT LEAST THREE WEEKS PRIOR TO CONSTRUCTION, THE PLANNING BOARD SHALL BE NOTIFIED, IN WRITING, OF THE CONSTRUCTION COMMENCEMENT DATE AND SCHEDULE SO THAT A PRE-CONSTRUCTION CONFERENCE BETWEEN THE DEVELOPER, HIS ENGINEERS AND CONTRACTORS, AND ALL INVOLVED TOWN AGENCIES CAN BE SCHEDULED TO DISCUSS CONSTRUCTION STANDARDS AND COMPLIANCE WITH TOWN REGULATIONS.
- SEE COVENANT REQUIRING POST LIGHTS ON EACH BUILDING LOT WITHIN TEN FEET OF THE STREET RIGHT-OF-WAY.
- NO MORE THAN ONE BUILDING DESIGNED OR AVAILABLE FOR USE FOR DWELLING PURPOSES SHALL BE ERECTED OR PLACED OR CONVERTED TO USE AS SUCH, ON ANY LOT WITHIN THE SUBDIVISION WITHOUT THE CONSENT OF THE PLANNING BOARD.
- THE APPROVAL WITH COVENANT CONTRACT (FORM I) HAS BEEN EXECUTED AS THE REQUIRED PERFORMANCE GUARANTEE AND IS TO BE RECORDED AT THE SOUTH MIDDLESEX REGISTRY OF DEEDS TOGETHER WITH THESE PLANS.
- PARCELS 1A AND 1B ARE NOT TO BE CONSIDERED SEPARATE BUILDING LOTS AND ARE TO BE CONVEYED TO THE OWNER OF LOT 1.
- FIELD SURVEY PERFORMED IN 1987 BY SCHOFIELD BROTHERS INC. NOT ALL BUILDINGS ON LOCUS ARE SHOWN.
- THE LAND FALLS WITHIN FLOOD ZONE "X" UNSHADED AS SHOWN ON THE F.I.R.M. MAP FOR MIDDLESEX COUNTY MASSACHUSETTS, MAP #25017C0526F, DATED JULY 7, 2014.

LEGEND:

SYMBOLS AND ABBREVIATIONS SHOWN ON THIS PLAN
 LP/CB(F) ■ LEAD PLUG IN CONCRETE BOUND, FOUND
 IP(F) ○ IRON PIPE, FOUND
 DH(F) ○ DRILL HOLE, FOUND
 CB/TBS ■ CONCRETE BOUND, TO BE SET
 ○ STONE WALL

RECORD OWNERS:

MARK S. KLEMPNER, AS TRUSTEE OF FRANCES BORGER KLEMPNER OIP TRUST AND OF FRANCES BORGER KLEMPNER NON-OIP MARITAL TRUST (54336/44) LOTS 2, 3, 4 AND FEE IN WAY AND DAVID M. GREEN AND TRACI C. GREEN (68434/526) LOT 1

SEE SUBDIVISION COVENANTS BOOK 19660, PAGE 405
 SEE SUBDIVISION MODIFICATION BOOK 28274, PAGE 263
 SEE SUBDIVISION PLAN # 186 OF 1989
 ADDITIONAL COVENANTS TO BE RECORDED HEREWITH.

I CERTIFY THAT THE ACTUAL SURVEY OF THE BOUNDARY LINES OF THIS TRACT OF LAND WAS MADE ON THE GROUND IN ACCORDANCE WITH THE SPECIFICATIONS IN THE "ETHICAL, PROCEDURAL AND TECHNICAL STANDARDS FOR THE PRACTICE OF LAND SURVEYING IN THE COMMONWEALTH OF MASSACHUSETTS", AS PREPARED AND ADOPTED BY THE MASSACHUSETTS ASSOCIATION OF LAND SURVEYORS AND CIVIL ENGINEERS, INC., PART II TECHNICAL STANDARDS, A., 2.

14 Feb 2017
 PROFESSIONAL LAND SURVEYOR DATE:

I CERTIFY THAT THE PREPARATION OF THIS PLAN CONFORMS TO THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS.

PROFESSIONAL LAND SURVEYOR DATE:

I HEREBY CERTIFY THAT NO NOTICE OF APPEAL WAS RECEIVED DURING THE TWENTY DAYS NEXT AFTER RECEIPT AND RECORDING OF NOTICE FROM THE PLANNING BOARD OF THE APPROVAL OF THIS PLAN.

APPROVAL UNDER THE SUBDIVISION CONTROL LAW, REQUIRED
 WAYLAND PLANNING BOARD:

DATE:

TOWN CLERK

DATE:

DEFINITIVE SUBDIVISION AMENDMENT

WAYLAND, MASSACHUSETTS 01778

ASSESSORS: MAP: 38 PARCELS: 18B, 19C, 19D, 19E

PREPARED FOR:

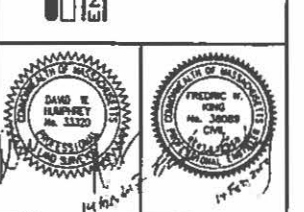
MARK S. KLEMPNER

188 BEACON STREET
 BOSTON, MASSACHUSETTS 02118

SCHOFIELD BROTHERS LLC
 ENGINEERING • SURVEYING • PLANNING • GIS

1071 WORCESTER ROAD
 FRAMINGHAM, MA 01701
 508-879-0030
 www.schofieldbrothers.com

COPYRIGHT © 2017, BY SCHOFIELD BROTHERS LLC



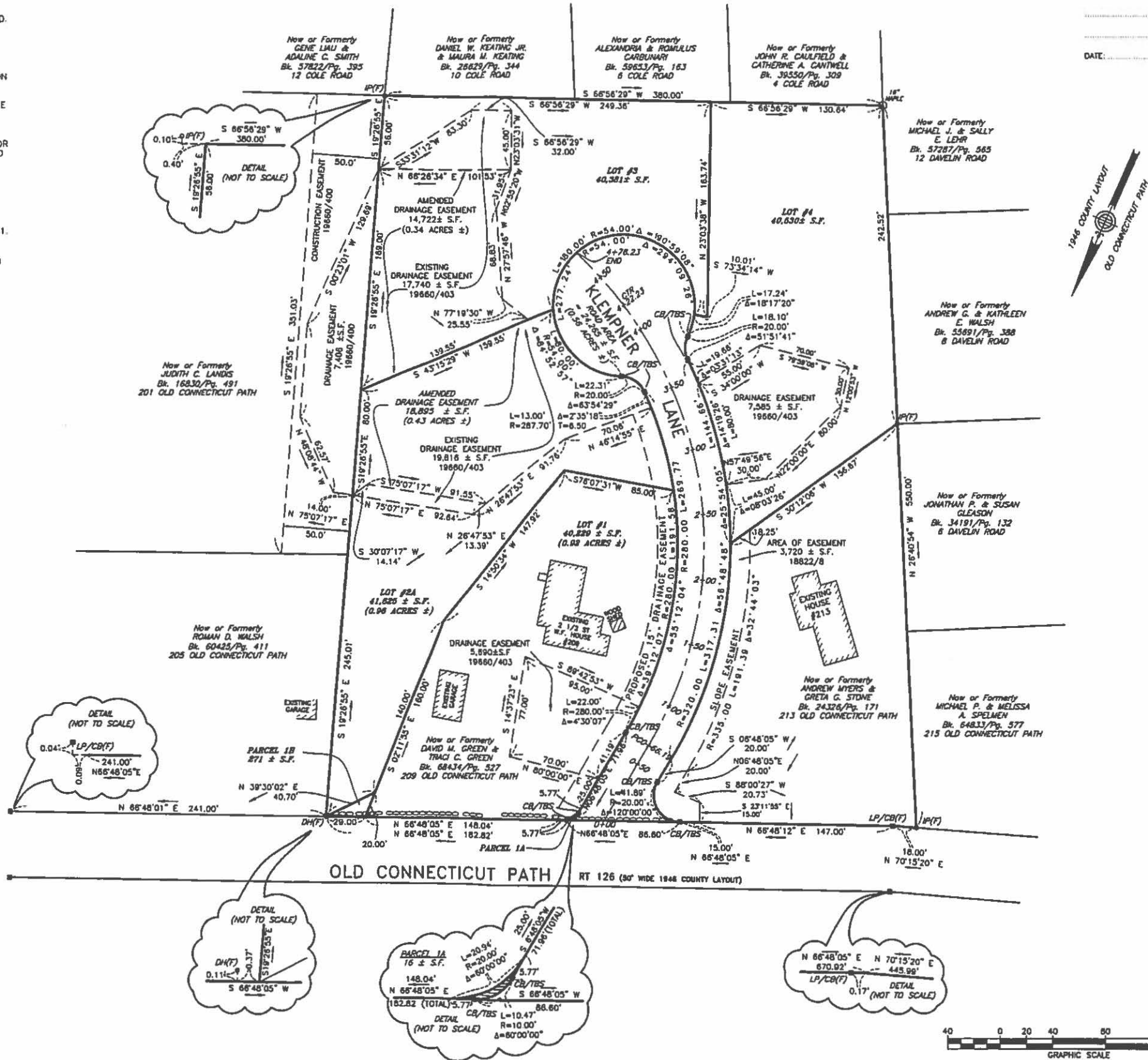
NO. APP. DATE DESCRIPTION
 DATE: FEBRUARY 14, 2017

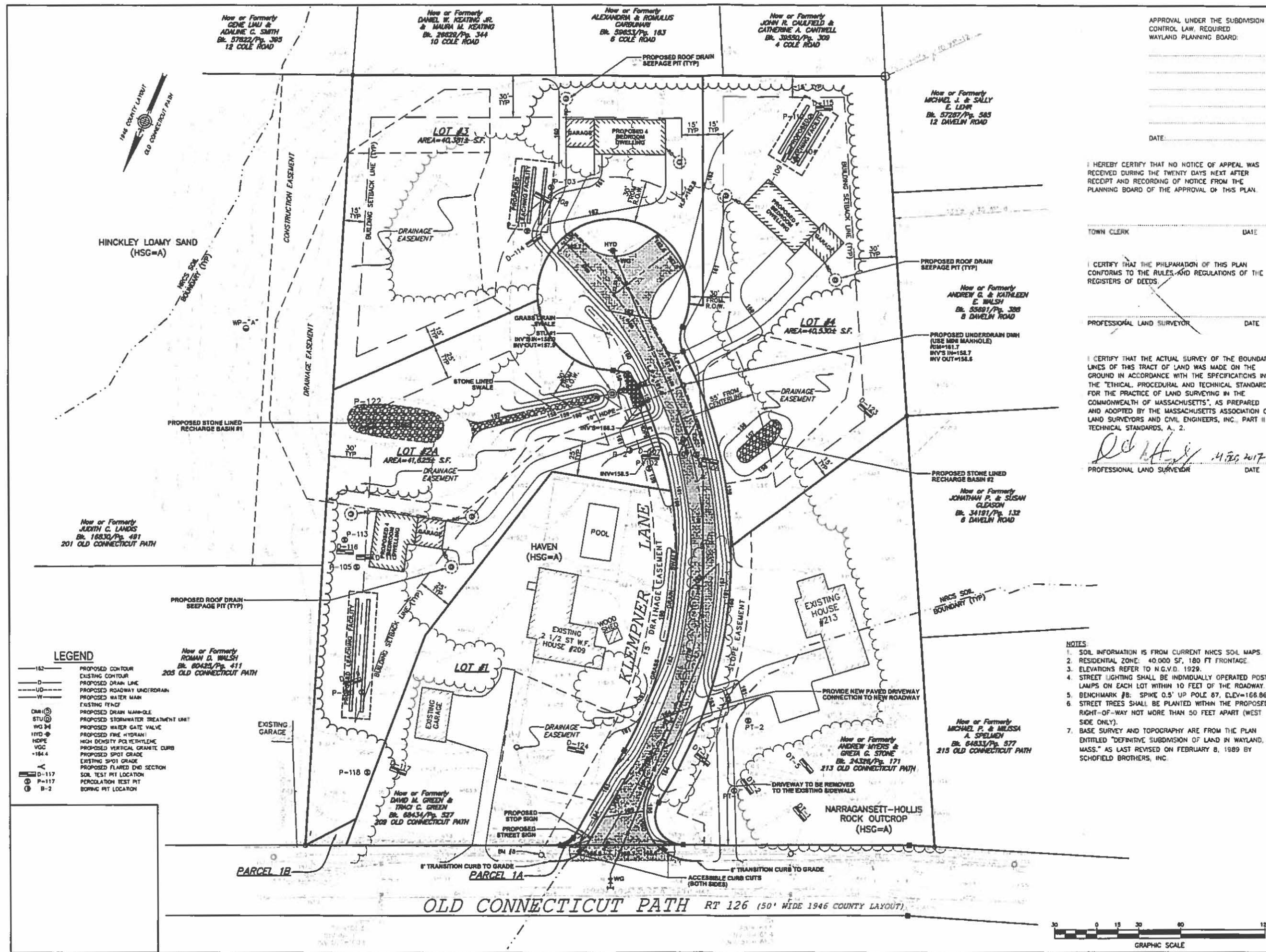
SCALE: 1"=40'

DRAFTED: HIMP / KMR CHECKED: DWH / FVWK APPROVED: DWH / FVWK

DEFINITIVE PLAN

PROJECT NO.: 28035 SHEET: 2 OF 6





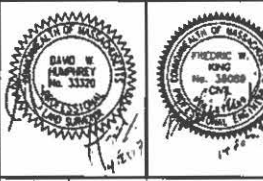
**DEFINITIVE
SUBDIVISION
AMENDMENT**

WAYLAND, MASSACHUSETTS 01778
ASSESSORS: MAP: 38
PARCELS: 158, 159, 160, 162
PREPARED FOR:

**MARK S.
KLEMPNER**

158 BEACON STREET
BOSTON, MASSACHUSETTS 02116

SCHOFIELD BROTHERS LLC
ENGINEERING • SURVEYING • PLANNING • GIS
1071 WORCESTER ROAD
FRAMINGHAM, MA 01701
508-879-0030
www.schofieldbros.com
COPYRIGHT © 2017, BY SCHOFIELD BROTHERS LLC



NO.	APP.	DATE	DESCRIPTION

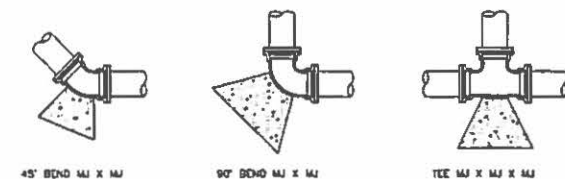
DATE: **FEBRUARY 14, 2017**

SCALE: **1" = 30'**

DRAWN BY: **HMP / KMR** CHECKED BY: **DWH / FWK** APPROVED BY: **DWH / FWK**

GRADING PLAN

PROJECT NO.: **25038**
SHEET: **3 OF 6**



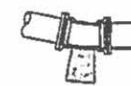
45° BEND MJ X MJ

90° BEND MJ X MJ

TEE MJ X MJ X MJ



22 1/2° BEND MJ X MJ

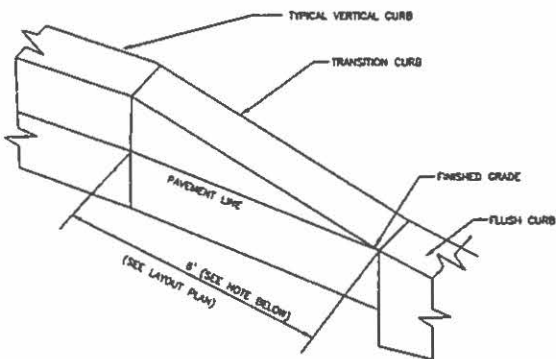


11 1/4° BEND MJ X MJ

PIPE SIZE	MINIMUM SURFACE AREA (S.F.) OF CONCRETE AGAINST UNDISTURBED EARTH					
	11 1/4°	22 1/2°	45°	90°	TEE	
4"	2.0	2.0	2.0	3.0	2.0	
6"	2.0	2.0	2.0	3.0	3.0	
8"	2.0	3.0	3.0	6.0	4.0	
10"	2.0	3.0	3.0	9.0	8.0	
12"	3.0	4.0	7.0	12.0	9.0	

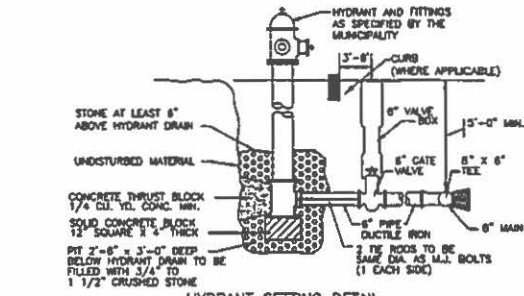
NOTE: PIPE FITTINGS SHALL BE AS MANUFACTURED BY U.S. PIPE SPEC. U501, U503, U505, U507, U509 OR APPROVED EQUAL. CONCRETE SHALL BE 3000 PSI PORTLAND TYPE I CEMENT CONCRETE MEETING MOPH SPEC. M4.02.00 AT 28 DAYS AND SHALL BE PLACED SO AS TO NOT INTERFERE WITH THE JOINTS OF THE FITTING.

TYPICAL THRUST BLOCK
(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.

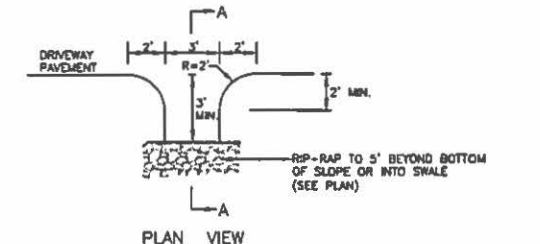
VERTICAL GRANITE TRANSITIONAL CURB
(NO SCALE)



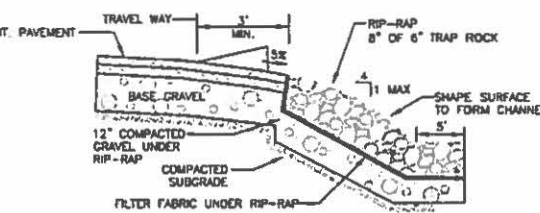
HYDRANT SETTING DETAIL

- WATER INSTALLATION NOTES:
1. WATER MAIN SHALL BE 8 INCH CLASS-S2 CONCRETE LINED DUCTILE IRON.
 2. WATER MAIN INSTALLATION, HYDRANTS, GATES, CONNECTIONS, ETC. SHALL BE IN CONFORMANCE WITH THE TOWN OF WAYLAND WATER DEPARTMENT SPECIFICATIONS.
 3. ALL FITTINGS SHALL BE RESTRAINED MECHANICAL JOINTS. ALL FITTINGS FOR THE HYDRANT CONNECTIONS SHALL BE RESTRAINED MECHANICAL JOINTS.

WATER MAIN & HYDRANT INSTALLATION
(NO SCALE)

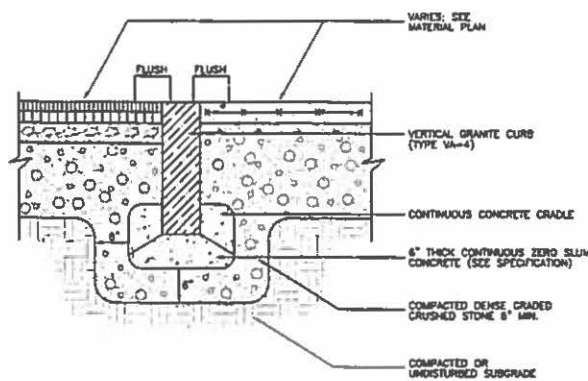


PLAN VIEW

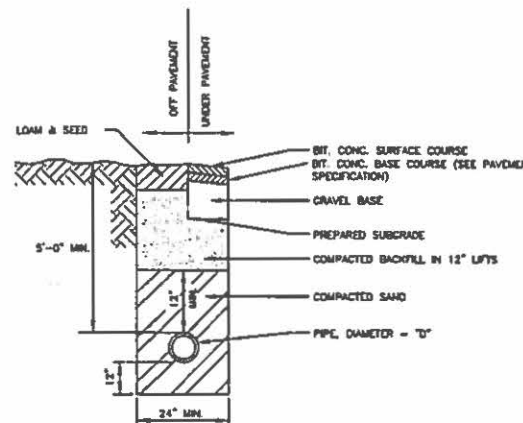


PROFILE VIEW A-A

PAVED DRAIN CHUTE
(NO SCALE)

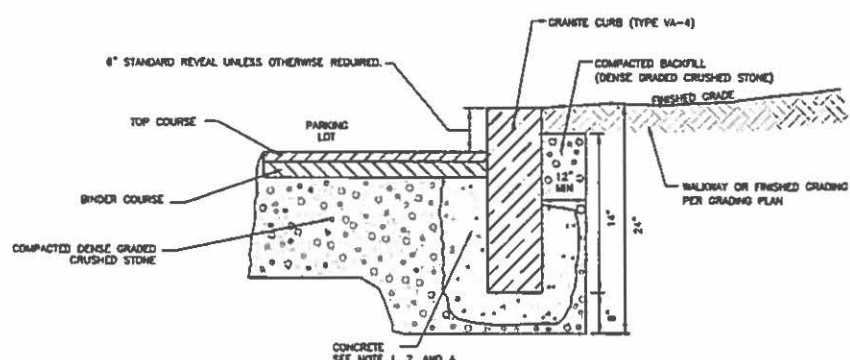


FLUSH GRANITE CURB
(NO SCALE)



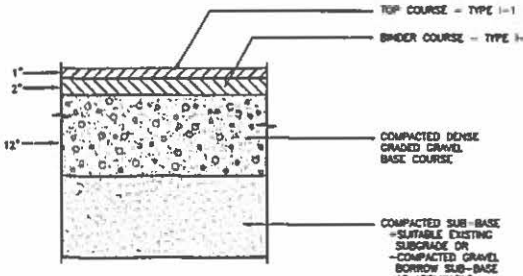
- NOTES:
1. TRENCH BACKFILL SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS AS CONTAINED IN MASSACHUSETTS HIGHWAY DEPARTMENT, STANDARDS AND SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, 1988.
 2. BACKFILL MATERIALS TO MEET TOWN OF WAYLAND WATER DEPARTMENT STANDARDS.

TYPICAL WATER PIPE BEDDING
(NO SCALE)



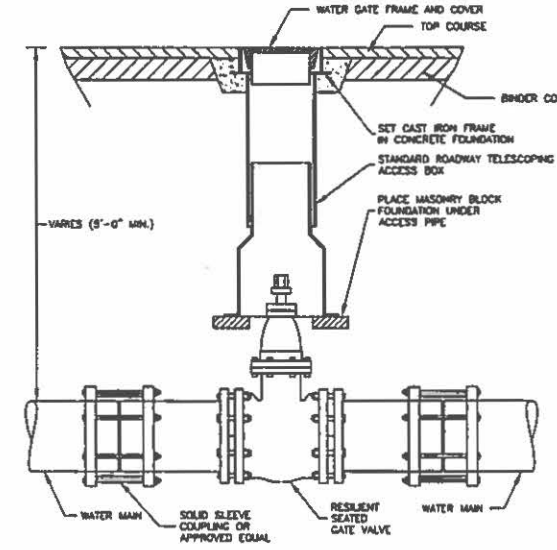
- NOTES:
1. CURB INSTALLATION ALONG EXISTING ROAD PAVEMENT SHALL BE SAW CUT AND PATCHED WITH A 2" BITUMINOUS GRADE BINDER COURSE, AND TOPPED WITH A 1" WEARING COURSE OF TYPE 1. THE CUT JOINT SHALL BE THOROUGHLY SEALED WITH ASPHALT EMULSION AND SAND. TOP OF CURB SHALL BE 6" ABOVE CUTTER GRADE.
 2. AT ALL LOCATIONS WHERE GRANITE CURBING IS PROPOSED, INCLUDING REPLACEMENT, THE CURB IS TO BE SET IN 6" THICK CONTINUOUS ZERO SLUMP CONCRETE.
 3. GRANITE CURB INSTALLATION TO BE PER MHD SECTION 501 AND THE LATEST TOWN OF WAYLAND STANDARDS.
 4. CONCRETE TO BE AIR ENTRAINED CLASS 0 CONFORMING TO MHD M4.02.00.
 5. GROUTING OF CURB JOINTS TO BE NON-SHRINK GROUTING CONFORMING TO ASTM C-827.

GRANITE CURB
(NO SCALE)



- NOTES:
1. COMPACTED DENSE GRADED GRAVEL BASE COURSE TO CONFORM TO THE WAYLAND PLANNING BOARD RULES AND REGULATIONS.
 2. COMPACTED GRAVEL BORROW FOR SUB-BASE - NO STONES LARGER THAN 8 INCHES.
 3. BITUMINOUS CONCRETE SHALL BE CLASS 1, TYPE 1-1.
 4. AT AREAS OF LEDGE/BEDROCK, REMOVE LEDGE TO A DEPTH OF 18 INCHES MINIMUM BELOW PAVEMENT COURSE.
 5. COMPACTED BASE TO EXTEND 12 INCHES MINIMUM BEYOND THE EDGE OF PAVEMENT.

BITUMINOUS CONCRETE PAVEMENT
(NO SCALE)



WATER GATE VALVE
(NO SCALE)

APPROVAL UNDER THE SUBDIVISION CONTROL LAW, REG. RED WAYLAND PLANNING BOARD:

DATE:

I HEREBY CERTIFY THAT NO NOTICE OF APPEAL WAS RECEIVED DURING THE TWENTY DAYS NEXT AFTER RECEIPT AND RECORDING OF NOTICE FROM THE PLANNING BOARD OF THE APPROVAL OF THIS PLAN

TOWN CLERK DATE

I CERTIFY THAT THE PREPARATION OF THIS PLAN CONFORMS TO THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS.

PROFESSIONAL LAND SURVEYOR DATE

I CERTIFY THAT THE ACTUAL SURVEY OF THE BOUNDARY LINES OF THIS TRACT OF LAND WAS MADE ON THE GROUND IN ACCORDANCE WITH THE SPECIFICATIONS IN THE "ETHICAL, PROCEDURAL AND TECHNICAL STANDARDS FOR THE PRACTICE OF LAND SURVEYING IN THE COMMONWEALTH OF MASSACHUSETTS", AS PREPARED AND ADOPTED BY THE MASSACHUSETTS ASSOCIATION OF LAND SURVEYORS AND CIVIL ENGINEERS, INC., PART II TECHNICAL STANDARDS, A, 2.

PROFESSIONAL LAND SURVEYOR DATE

DEFINITIVE SUBDIVISION AMENDMENT

WAYLAND, MASSACHUSETTS 01778

ASSESSORS: MAP: 38 PARCELS: 15B, 16C, 15D, 15E

PREPARED FOR:

MARK S. KLEMPNER

165 BEACON STREET BOSTON, MASSACHUSETTS 02116

SCHOFIELD BROTHERS LLC
ENGINEERING • SURVEYING • PLANNING • GIS

1071 WORCESTER ROAD
FRAMINGHAM, MA 01701
508-879-0030
www.schofieldbros.com

COPYRIGHT © 2017, BY SCHOFIELD BROTHERS LLC

NO. / APP. DATE DESCRIPTION	
DATE: FEBRUARY 14, 2017	
SCALE: AS NOTED	
DRAFTED: HRP / KMR	CHECKED: DWH / FWK
APPROVED: DWH / FWK	
PROJECT NO. 25035	
SHEET: 5 OF 6	

APPROVAL UNDER THE SUBDIVISION
CONTROL LAW, REQUIRED
WAYLAND PLANNING BOARD:

DEFINITIVE SUBDIVISION AMENDMENT

WAYLAND, MASSACHUSETTS 01778

ASSESSORS: MAP: 39
PARCELS: 158, 15C, 15D, 15E

PREPARED FOR:

MARK S.
KLEMPNER

168 BEACON STREET
BOSTON, MASSACHUSETTS 02116

SCHOFIELD BROTHERS LLC
ENGINEERING • SURVEYING • PLANNING • GIS

1071 WORCESTER ROAD
FRAMINGHAM, MA 01701
508-879-0030
www.schofieldbros.com

COPYRIGHT © 2017, BY SCHOFIELD BROTHERS LLC



NO. APP. DATE DESCRIPTION
DATE: FEBRUARY 14, 2017

SCALE: AS NOTED
DRAWN BY: HMP / KMR
CHECKED BY: DWH / FWK
APPROVED BY: DWH / FWK

DETAIL PLAN

PROJECT NO: 25035
SHEET: 6 OF 6

VORTSENTRY HS DESIGN NOTES

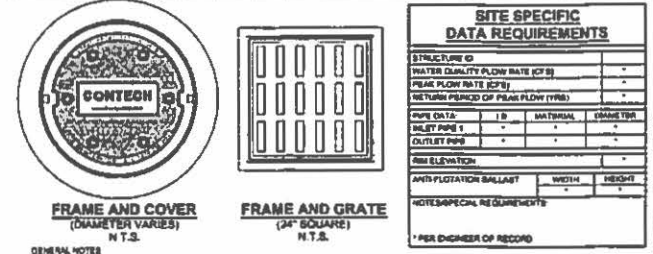
VOLUME RATED TREATMENT CAPACITY IS SHOWN IN THE TABLE BELOW. FOR LOCAL REGULATIONS, MAXIMUM HYDRAULIC INTERNAL BYPASS CAPACITY MAY VARY. CONTACT YOUR COUNTY REPRESENTATIVE FOR ADDITIONAL INFORMATION.
THE STANDARD SOLID COVER CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW.

CONFIGURATION OPTION DESCRIPTION

OPTION 1: 12" DIA. SOLID COVER
OPTION 2: 12" DIA. SOLID COVER WITH 12" DIA. INLET PIPE

VORTSENTRY HS GENERAL INFORMATION

Model	Manhole Diameter (ID)	Total Treatment Flow Rate	Typical Total Distance From Inlet to Outside Bottom (ft)	Typical Distance From Inlet to Invert (ft)	Typical Depth Below Invert (ft)	Approximate Maximum Distance From Inlet to Invert (ft)	Maximum Pipe Diameter (ID)
H2M	3	900	6.33	10.16	3.83	1702	15
H2M	4	1200	1.28	11.25	4.94	1827	24
H2M	6	1800	2.20	12.13	5.93	1902	36
H2M	8	2400	3.70	12.88	6.88	2000	48
H2M	10	3000	5.00	13.63	7.63	2075	60
H2M	12	3600	6.10	14.38	8.28	2150	72

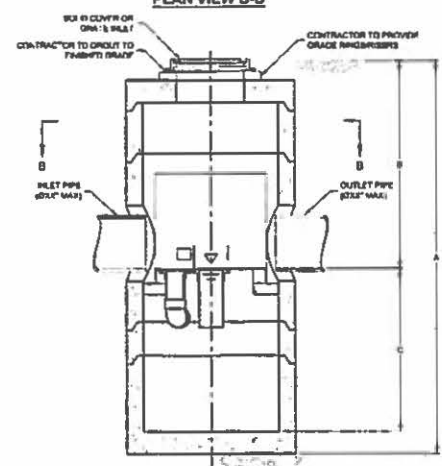
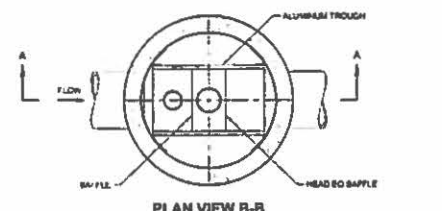


GENERAL NOTES:
1. CONTRACTOR TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH (L) ARE REPERFORATED DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DIMENSIONS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTRACTOR.
4. VORTSENTRY HS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET ASH-TO-HSB AND CASTERS SHALL MEET ASH-TO-HSB LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT OR BELOW THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.

INSTALLATION NOTES:
1. ANY SUB-BASE, BACKFILL, DEPTH AND/OR ANTI-FLOTATION PROVISIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
2. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE VORTSENTRY HS WATER QUALITY STRUCTURE LIFTING CLUTCHES PROVIDED.
3. CONTRACTOR TO INSTALL JOINT BEARING BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
4. CONTRACTOR TO PROVIDE INSTALL AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
5. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO AVOID ANY WATER TIGHT HOLDING WATER TO LOWLINE PAVEMENT. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CONTECH ENGINEERING LLC
www.contechllc.com
800 Contech Drive Dr. Suite 100, Troy, Ohio, OH 45329
937-334-1177 937-334-1188 937-334-1199 FAX

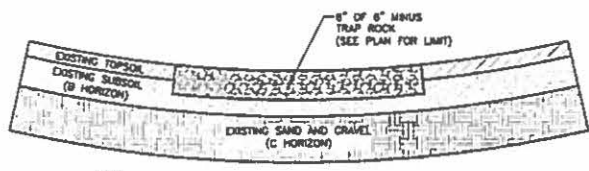
VORTSENTRY HS
STANDARD DETAIL



VortSentry

STORMWATER TREATMENT UNIT DETAIL

(NO SCALE)

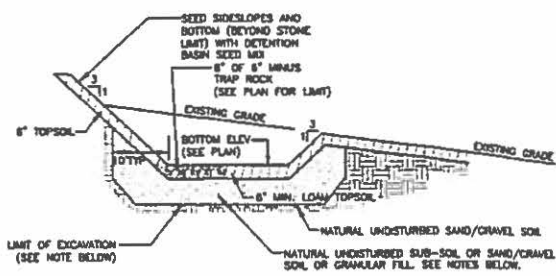


DETAIL FOR BASIN #1

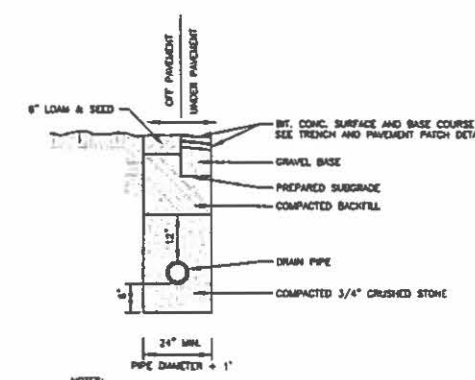
- NOTE:
1. REMOVE THE EXISTING TOPSOIL AND SUBSOIL (B-HORIZON) TO THE NATURAL SAND/GRAVEL LAYER.
2. IF THE EXCAVATION IS BELOW THE FINISH SUBGRADE OF THE STONE BOTTOM, SCARIFY THE SURFACE OF THE NATURAL SUB-SOIL OR SAND/GRAVEL SURFACE AND FILL TO FINISHED SUBGRADE WITHIN 10 FEET OF THE STONE BOTTOM, WITH GRANULAR FILL. BEYOND 10 FEET FROM THE STONE BOTTOM BACKFILL MAY BE ORDINARY BORROW OR BETTER.
3. EXCAVATION AND BACKFILL:
- ALL TOPSOIL, SUBSOIL AND DELETERIOUS MATERIAL, IF ANY, MUST BE EXCAVATED AND REMOVED FROM WITHIN FIVE (5) FEET FROM ALL SIDES OF THE INFILTRATION SYSTEM AND TO A DEPTH OF SIX (6) INCHES BELOW THE SURFACE OF THE NATURAL SUB-SOIL (B OR C HORIZON).
- GRANULAR FILL: FILL MATERIAL BELOW THE BOTTOM OF THE SYSTEM AND WITHIN FIVE (5) FEET OF THE SIDES OF THE SYSTEM SHALL BE PERMEABLE GRANULAR FILL CONSISTING OF CLEAN SANDY GRAVELLY MATERIAL FROM NATURAL ON-SITE SOIL, FREE FROM ORGANIC MATTER AND DELETERIOUS MATERIAL APPROVED BY THE ENGINEER OR IMPORTED SAND MATERIAL MEETING MASS. TITLE 5 SECTION 318 CMR 18.000 (3). FILL MATERIAL SHALL BE COMPACTED TO 90% DENSITY.
- TRAP ROCK TO BE EVENLY GRADED, CLEAN 3 INCH TO 8 INCH BROKEN STONE, NOT MORE THAN 15% OF THE STONE MAY BE SCATTERED SPALLS LESS THAN 3 INCHES.

STONE RECHARGE BASINS - TYPICAL SECTIONS

(NO SCALE)

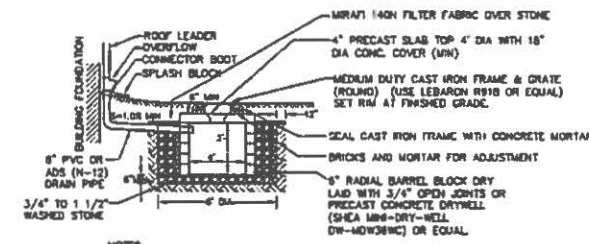


DETAIL FOR BASIN #2



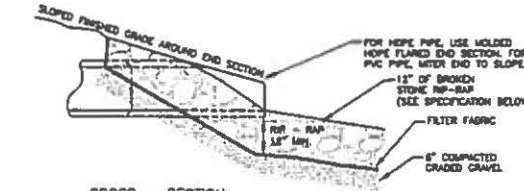
TYPICAL DRAIN PIPE BEDDING

(NO SCALE)



ROOF DRAIN SEEPAGE PIT DETAIL

(NO SCALE)



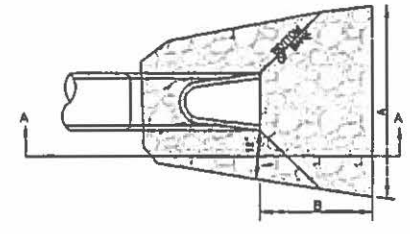
CROSS - SECTION
A - A

PIPE SIZE (IN.)	A (IN.)	B (IN.)
12" OR LESS	6"	6"
15"	10"	6"

NOTE:
RIP-RAP SHALL CONSIST OF EVENLY GRADED 4" TO 8" ANGULAR BROKEN STONE, (AVG. STONE SIZE = 6") WITH A THICKNESS OF 12 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 END SECTION WITH RIP - RAP APRON

(NO SCALE)



PLAN VIEW