

LEGEND

EXISTING FEATURES

CONTOUR	152
EDGE OF PAVEMENT	EP
CAPE COD BERM	CCB
GAS SHUT OFF	GS
SEWER MANHOLE	SMH
CATCH BASIN	CB
WATER GATE	WG
FIRE HYDRANT	FH
UTILITY POLE	UP
CABLE TV HANDHOLE	CTH

PROPOSED FEATURES

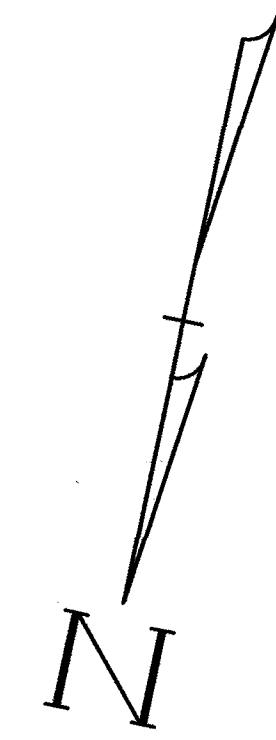
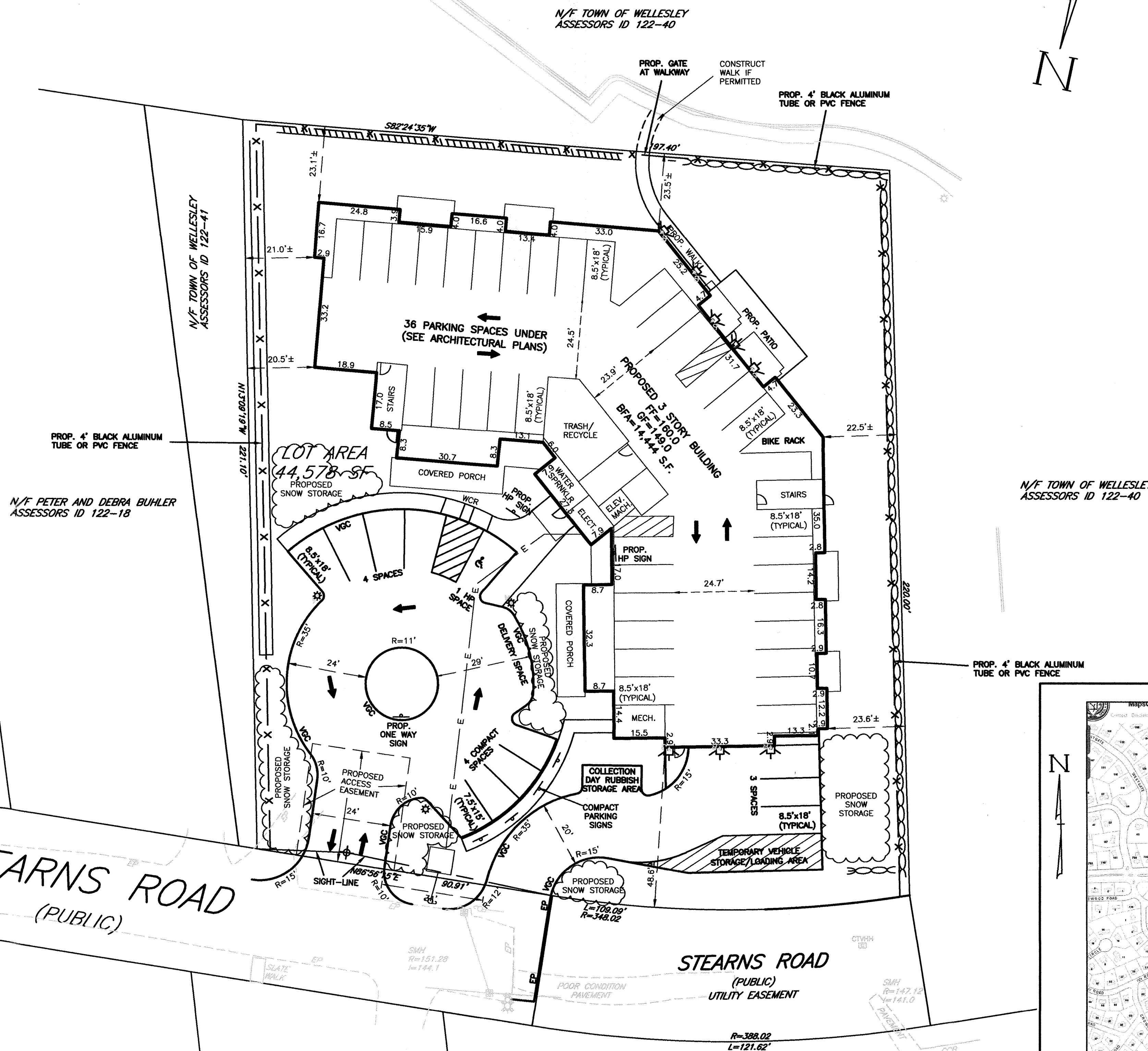
CONTOUR	155
VERTICAL GRANITE CURB	VGC
EDGE OF PAVEMENT	EP
FENCE	X
SPOT GRADE	48.0
SIGN	
CLEAN OUT	CO

UNDERGROUND UTILITIES

GAS	G
WATER	W
ELECTRIC	E

ABBREVIATIONS

TOP CURB	T.C.
BOTTOM CURB	B.C.
TOP WALL	T.W.
BOTTOM WALL	B.W.
WHEEL CHAIR RAMP	WCR
VERTICAL GRANITE CURB	VGC
EDGE OF PAVEMENT	EP
FIRST FLOOR	F.F.
GARAGE FLOOR	G.F.
BUILDING FOOTPRINT AREA	B.F.A.



ZONING TABLE

ZONE	SINGLE FAMILY DISTRICTS (R10)	
	REQUIRED/ALLOWED	PROPOSED/PROVIDED
FRONT YARD SETBACK	30 ft	48.6± ft
SIDE YARD SETBACK	20 ft	20.5± ft
REAR YARD SETBACK	20 ft	23.1± ft
MIN. FRONTAGE	60 ft	200.00 ft
MIN. LOT AREA	10,000 ft²	44,578 ft²
MAX. BUILDING HEIGHT	45 ft	48.9 ft
MAX. NUMBER OF STORIES	3	3
MAX. BLDG. LOT COVERAGE	6,687 S.F.	14,819 S.F.

SHEET INDEX

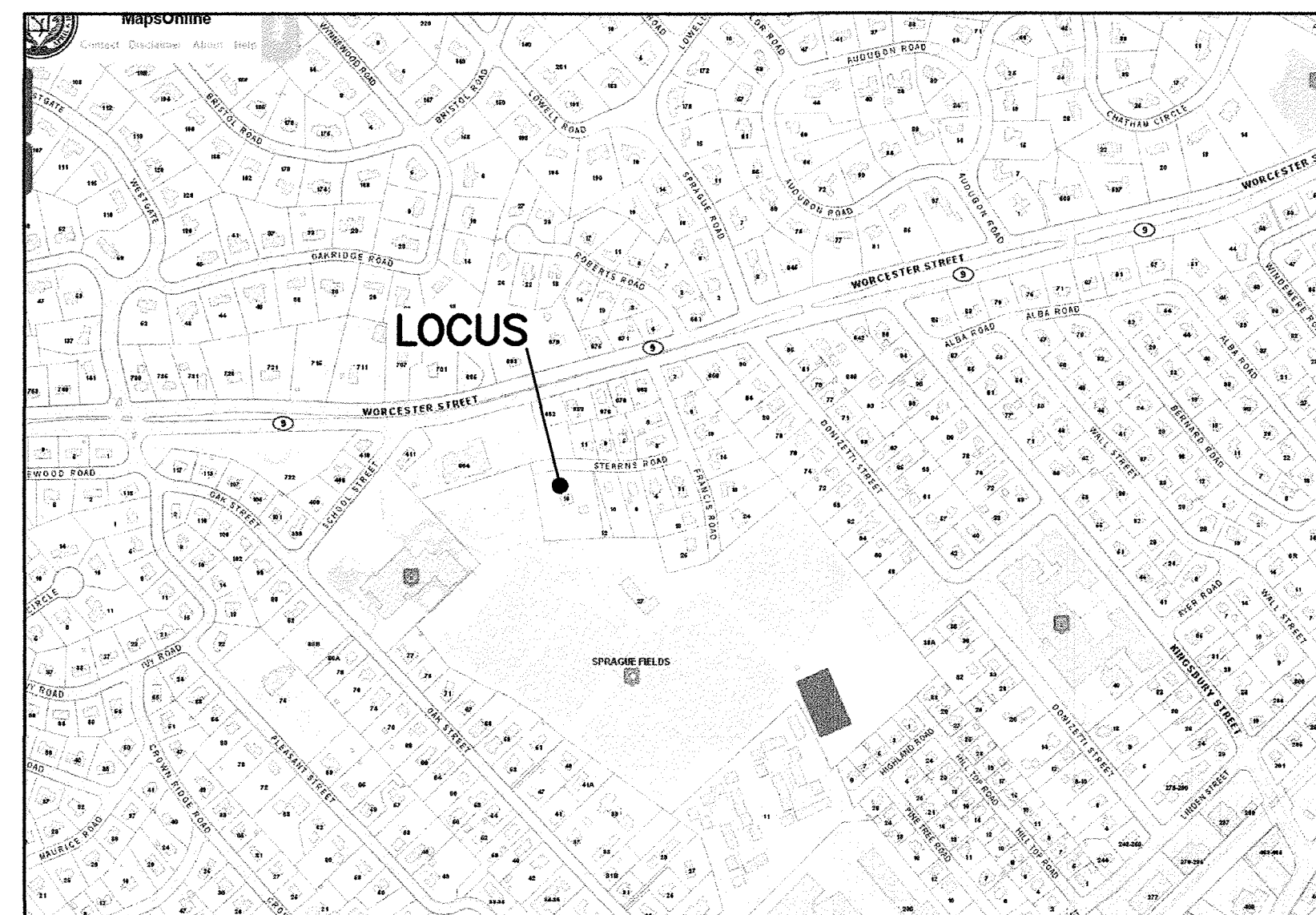
PLAN TITLE	SHEET DESIGNATION
LAYOUT PLAN	C1
GRADING PLAN	C2
SOIL TEST PIT PLAN	C2A
UTILITY PLAN	C3
EROSION PLAN	C4
PHOTOMETRIC PLAN	C5
FIRE ACCESS PLAN	C6A, C6B, & C6C
UTILITY DETAIL SHEET	C7
UTILITY DETAIL SHEET	C8
SITE DETAIL SHEET	C9
EROSION DETAIL SHEET	C10
EXISTING CONDITIONS	
PLAN OF LAND	

EXISTING CONDITIONS AND PLAN OF LAND BY FIELD RESOURCES, INC. BOTH DATED JULY 19, 2017.

PARKING TABLE

GARAGE UNDER SPACES = 35
GARAGE ACCESSIBLE SPACES = 1
SURFACE SPACES = 11
SURFACE ACCESSIBLE SPACES = 1
TOTAL SPACES PROVIDED = 48

LOCUS:
J. DERENZO & ASSOCIATES, LLC
ASSESSORS ID 122-19



LOCUS MAP
SCALE: 1"=500'±
SOURCE: WELLESLEY GIS

NOTES:

- ALL SIGNS AND PAVEMENT MARKINGS TO BE INSTALLED WITHIN THE PROJECT SITE SHALL CONFORM TO THE APPLICABLE STANDARDS OF THE MANUAL OF UNIFORM TRAFFIC CONTROLS (MUTCD).
- SEE DETAIL SHEETS FOR MORE DETAILED INFORMATION.
- ANY ASBESTOS FOUND ON SITE TO BE HANDLED IN ACCORDANCE WITH 310 CMR 7.15.
- AREA TO BE REPAVED IS TO BE DONE IN CONFORMANCE WITH THE TOWN OF WELLESLEY CONSTRUCTION STANDARDS.
- STEARNS ROAD AND FRANCIS ROAD TO BE SWEEP AS NECESSARY.

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Applicant:
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Needham, MA 02494

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Design By: WRB

Drawn By: EBL

Checked By: WRB

Project File: WEL-0012

Comp. No: WEL11

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☒ Issued For Review

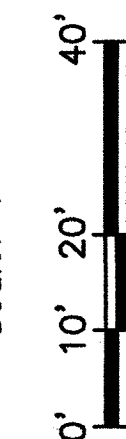
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☐ Issued For Construction

☒ Not For Construction

Comments	3-7-2019	2-20-2019	12-21-2018	12-11-2018	12-7-2018	10-19-2018	7-6-2018	4-5-2018	2-15-2018	Date
VBH Comments										
Sight Line										
Town Comments										
Drive Locations										
Entrance drive										
Town Comments										
Submittal										
Building Height										
Building footprint										
Revision										

Scale: 1"=20'



Date: January 12, 2018

Drawing Title:

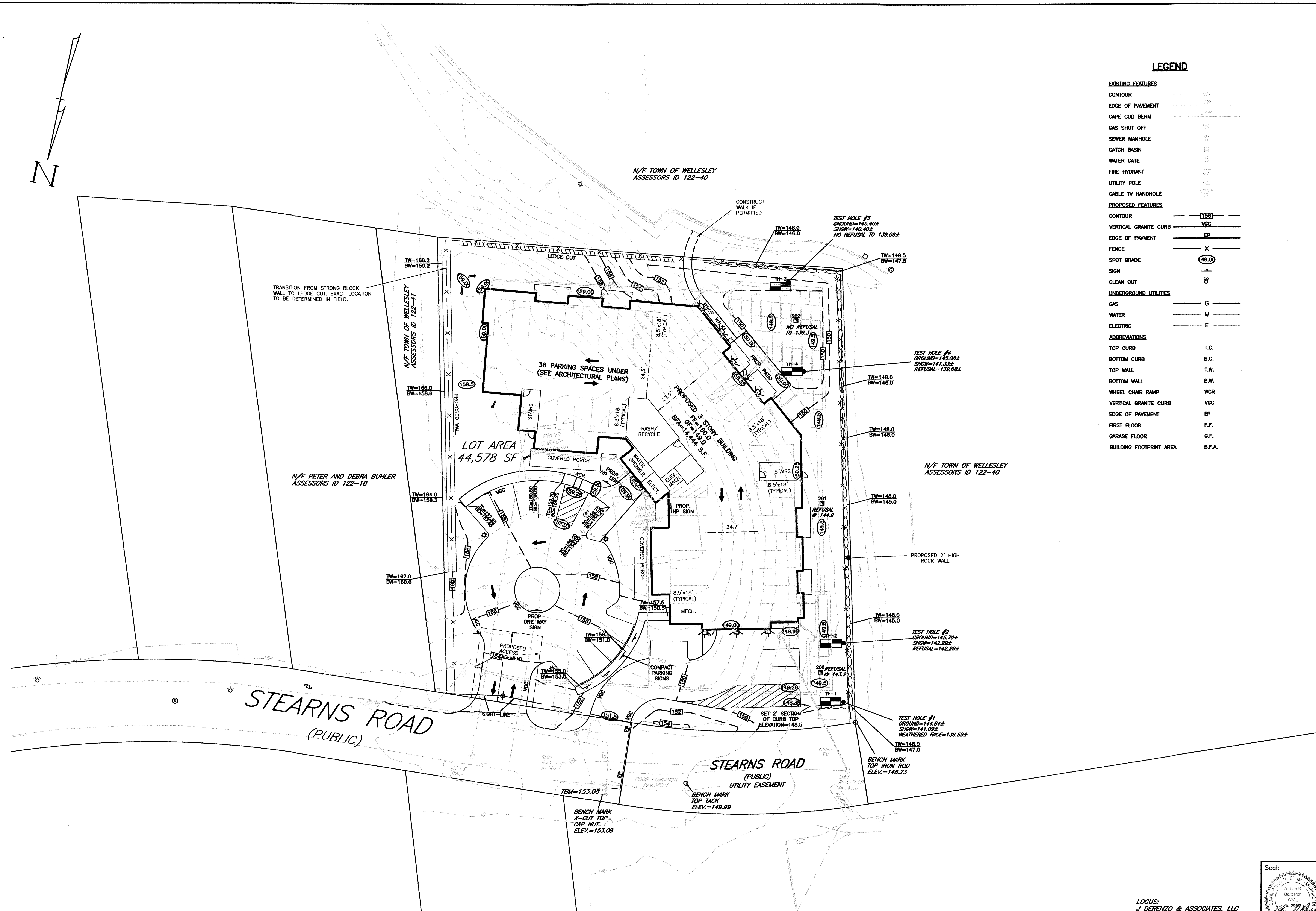
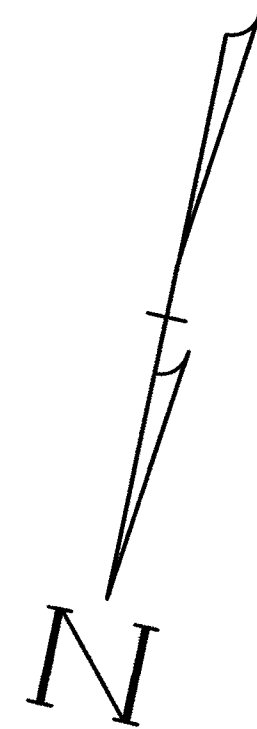
LAYOUT PLAN

#16 STEARNS ROAD
WELLESLEY, MASS.

Drawing No.:

C1

SHEET 1 OF 13



LEGEND	
EXISTING FEATURES	
CONTOUR	---
EDGE OF PAVEMENT	---
CAPE COD BERM	---
GAS SHUT OFF	---
SEWER MANHOLE	---
CATCH BASIN	---
WATER GATE	---
FIRE HYDRANT	---
UTILITY POLE	---
CABLE TV HANDHOLE	---
PROPOSED FEATURES	
CONTOUR	---
VERTICAL GRANITE CURB	---
EDGE OF PAVEMENT	---
FENCE	---
SPOT GRADE	---
SIGN	---
CLEAN OUT	---
UNDERGROUND UTILITIES	
GAS	---
WATER	---
ELECTRIC	---
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WHEEL CHAIR RAMP	WCR
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EDGE OF PAVEMENT	EP
FIRST FLOOR	F.F.
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BUILDING FOOTPRINT AREA	B.F.A.

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Drawn By: EBL
Checked By: WRB
Project File: WEL-0012
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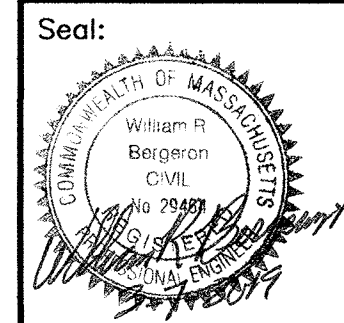
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4	12-11-2018	
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9		
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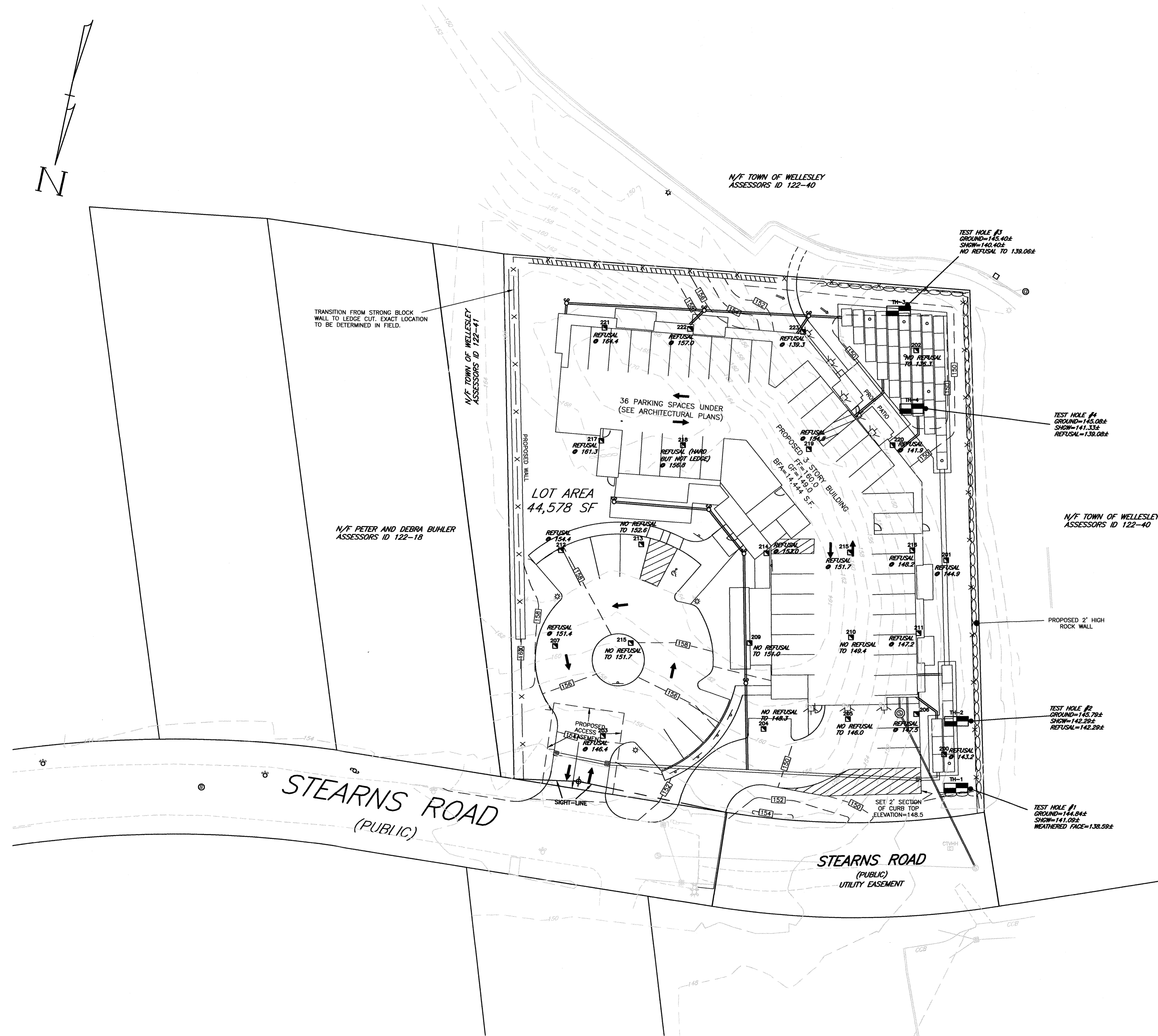
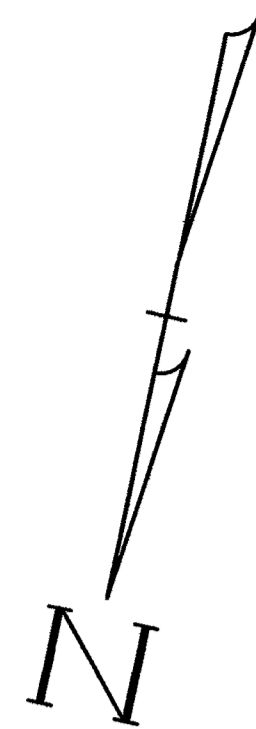
Date: January 12, 2018

GRADING PLAN
#16 STEARNS ROAD
WELLESLEY, MASS.

Drawing No.:
C2



LOCUS:
J DERENZO & ASSOCIATES, LLC
ASSESSORS ID 122-19



LEGEND	
EXISTING FEATURES	
CONTOUR	---
EDGE OF PAVEMENT	---
CAPE COD BERM	---
GAS SHUT OFF	---
SEWER MANHOLE	---
CATCH BASIN	---
WATER GATE	---
FIRE HYDRANT	---
UTILITY POLE	---
CABLE TV HANDHOLE	---
PROPOSED FEATURES	
CONTOUR	---
VERTICAL GRANITE CURB	---
EDGE OF PAVEMENT	---
FENCE	---
SPOT GRADE	---
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CLEAN OUT	---
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GAS	---
WATER	---
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VERTICAL GRANITE CURB	VGC
EDGE OF PAVEMENT	EP
FIRST FLOOR	F.F.
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BUILDING FOOTPRINT AREA	B.F.A.

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Checked By: WRB
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No.	Date	Revision
10	3-7-2019	VHB Comments
9	12-21-2018	Town Comments
8	12-11-2018	Drive Locations
7	10-19-2018	Town Comments
6	7-6-2018	Submittal
5	2-15-2018	Building Footprint
4		
3		
2		
1		

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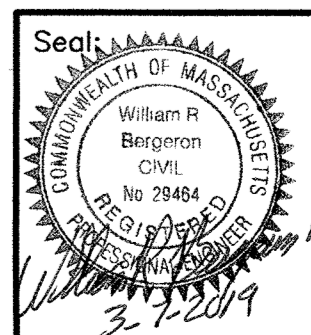
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Drawing Title:

SOIL TEST PIT PLAN
#16 STEARNS ROAD
WELLESLEY, MASS.

Drawing No.: C2A

SHEET 3 OF 13

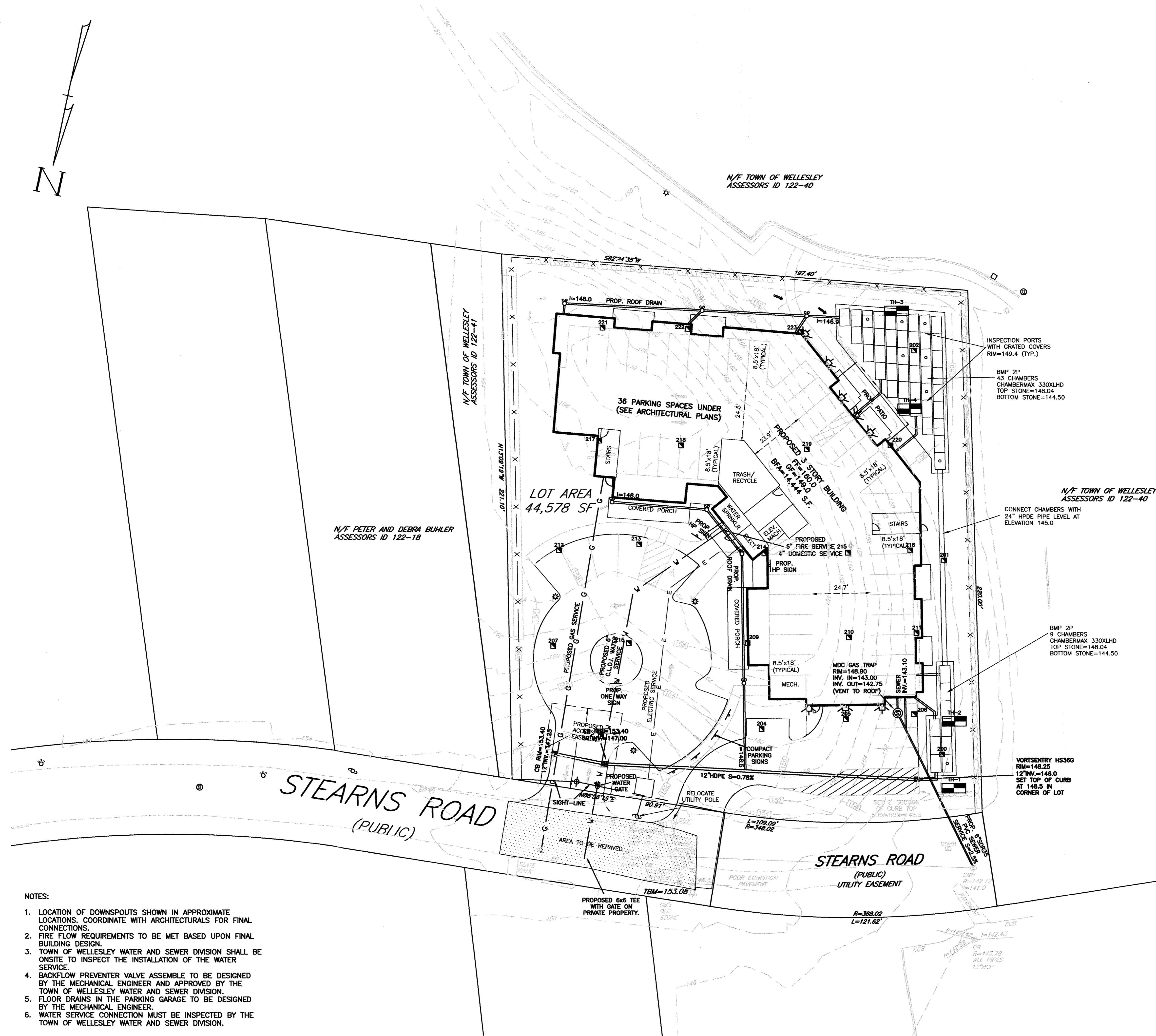


LOCUS:
J. DERENZO & ASSOCIATES, LLC
ASSESSORS ID 122-19

N:\wel11SP-16stearnsRD.dwg, 3/7/2019 9:54:44 AM, EBL

NOTES:

1. LOCATION OF DOWNSPOUTS SHOWN IN APPROXIMATE LOCATIONS. COORDINATE WITH ARCHITECTURALS FOR FINAL CONNECTIONS.
2. FIRE FLOW REQUIREMENTS TO BE MET BASED UPON FINAL BUILDING DESIGN.
3. TOWN OF WELLESLEY WATER AND SEWER DIVISION SHALL BE ONSITE TO INSPECT THE INSTALLATION OF THE WATER SERVICE.
4. BACKFLOW PREVENTER VALVE ASSEMBLY TO BE DESIGNED BY THE MECHANICAL ENGINEER AND APPROVED BY THE TOWN OF WELLESLEY WATER AND SEWER DIVISION.
5. FLOOR DRAINS IN THE PARKING GARAGE TO BE DESIGNED BY THE MECHANICAL ENGINEER.
6. WATER SERVICE CONNECTION MUST BE INSPECTED BY THE TOWN OF WELLESLEY WATER AND SEWER DIVISION.



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Drawn By: EBL

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VRB Comments	Date
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10-19-2018	
7-6-2018	
2-15-2018	
Revision	

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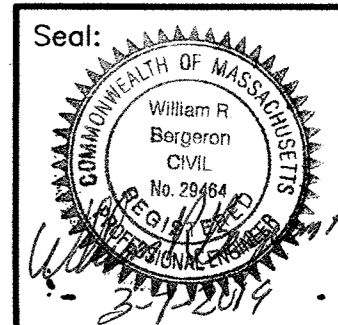
UTILITY PLAN
#16 STEARNS ROAD
WELLESLEY, MASS.

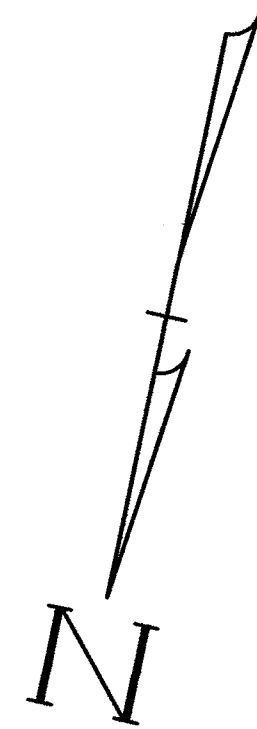
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C3

SHEET 4 OF 13

LOCUS:
J DERENZO & ASSOCIATES, LLC
ASSESSORS ID 122-19





LEGEND

EXISTING FEATURES	
CONTOUR	---
EDGE OF PAVEMENT	---
CAPE COD BERM	---
GAS SHUT OFF	---
SEWER MANHOLE	---
CATCH BASIN	---
WATER GATE	---
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VERTICAL GRANITE CURB	VGC
EDGE OF PAVEMENT	EP
FIRST FLOOR	F.F.
GARAGE FLOOR	G.F.
BUILDING FOOTPRINT AREA	B.F.A.

- NOTES:
1. STEARNS ROAD AND FRANCIS ROAD TO BE SWEEP AS NECESSARY.
 2. FINAL WATER CONNECTION TO BE DETERMINED BY THE MECHANICAL ENGINEER AND APPROVED BY THE TOWN OF WELLESLEY WATER AND SEWER DIVISION.
 3. ENTIRE SITE TO HAVE A CONSTRUCTION FENCE ALONG THE PERIMETER WITH GATES AT THE TWO TRACKING PADS.

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Drawn By: EBL
Checked By: WRB
Project File: WEL-0012
Comp. No: WEL11
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No.	Revision	Date
10		
9		
8		
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3		
2		
1		

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Date: January 12, 2018

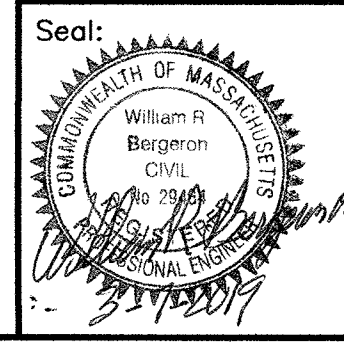
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EROSION CONTROL PLAN
#16 STEARNS ROAD
WELLESLEY, MASS.

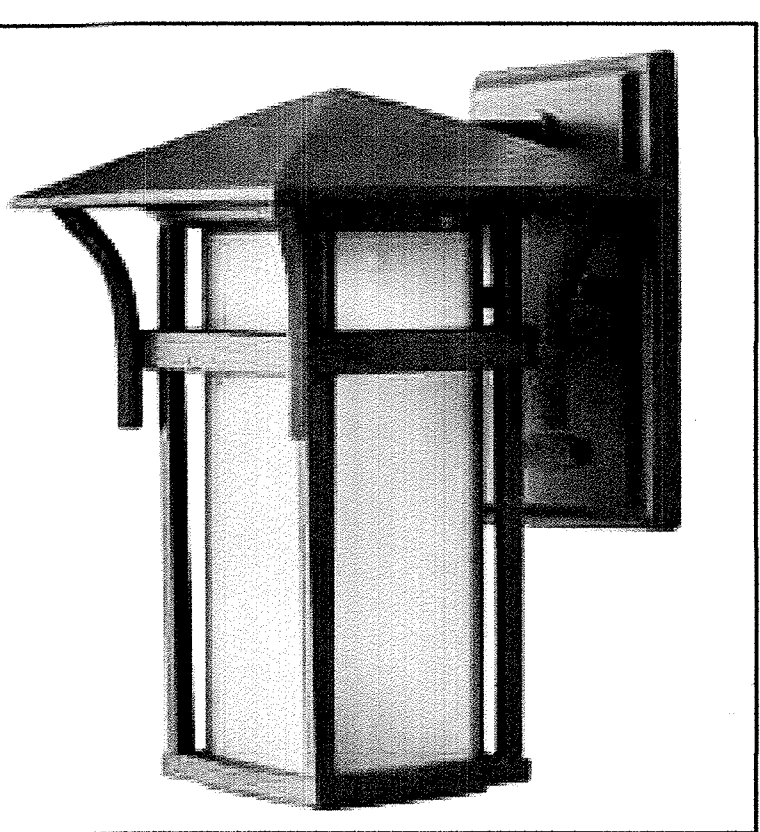
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SHEET 5 OF 13

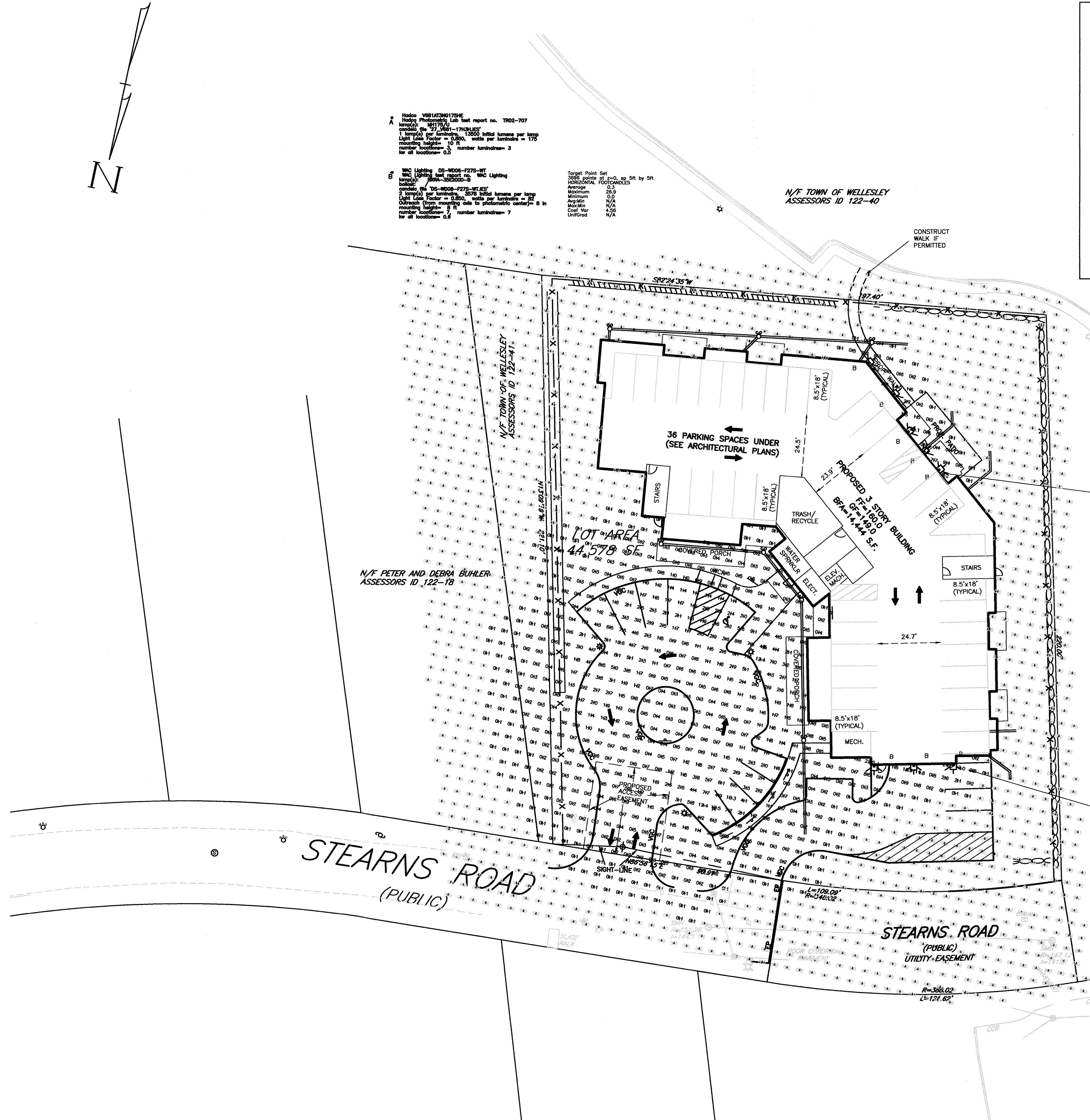


LOCUS:
J DERENZO & ASSOCIATES, LLC
ASSESSORS ID 122-19



HINKLEY LIGHTING
HARBOR WALL SCONCE

HADCO LIGHTING
BALTIMORE V681 POST TOP



WALL PACK LUMINAIRES TO BE HINKLEY LIGHTING, MODEL "HARBOR" OR APPROVED EQUAL. PHOTOMETRIC DATA FROM MANUFACTURER ARE UNAVAILABLE. ACTUAL PHOTOMETRICS SHOWN ARE APPROXIMATE ONLY AND REPRESENT A 42 WATT LED, TYPE III DISTRIBUTION WITH 8" MOUNTING HEIGHT.

N/F TOWN OF WELLESLEY
ASSESSORS ID 122-40

WALL PACK LUMINAIRES TO BE HINKLEY LIGHTING, MODEL "HARBOR" OR APPROVED EQUAL. PHOTOMETRIC DATA FROM MANUFACTURER ARE UNAVAILABLE. ACTUAL PHOTOMETRICS SHOWN ARE APPROXIMATE ONLY AND REPRESENT A 42 WATT LED, TYPE III DISTRIBUTION WITH 8" MOUNTING HEIGHT.

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Drawn By: EBL
Checked By: WRB
Project File: WEL-0012
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12-21-2018	
12-11-2018	
10-19-2018	
7-6-2018	
2-15-2018	

Scale: 1"=20'
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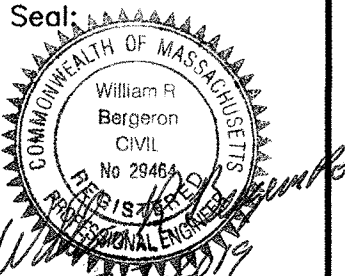
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PHOTOMETRICS PLAN
#16 STEARNS ROAD
WELLESLEY, MASS.

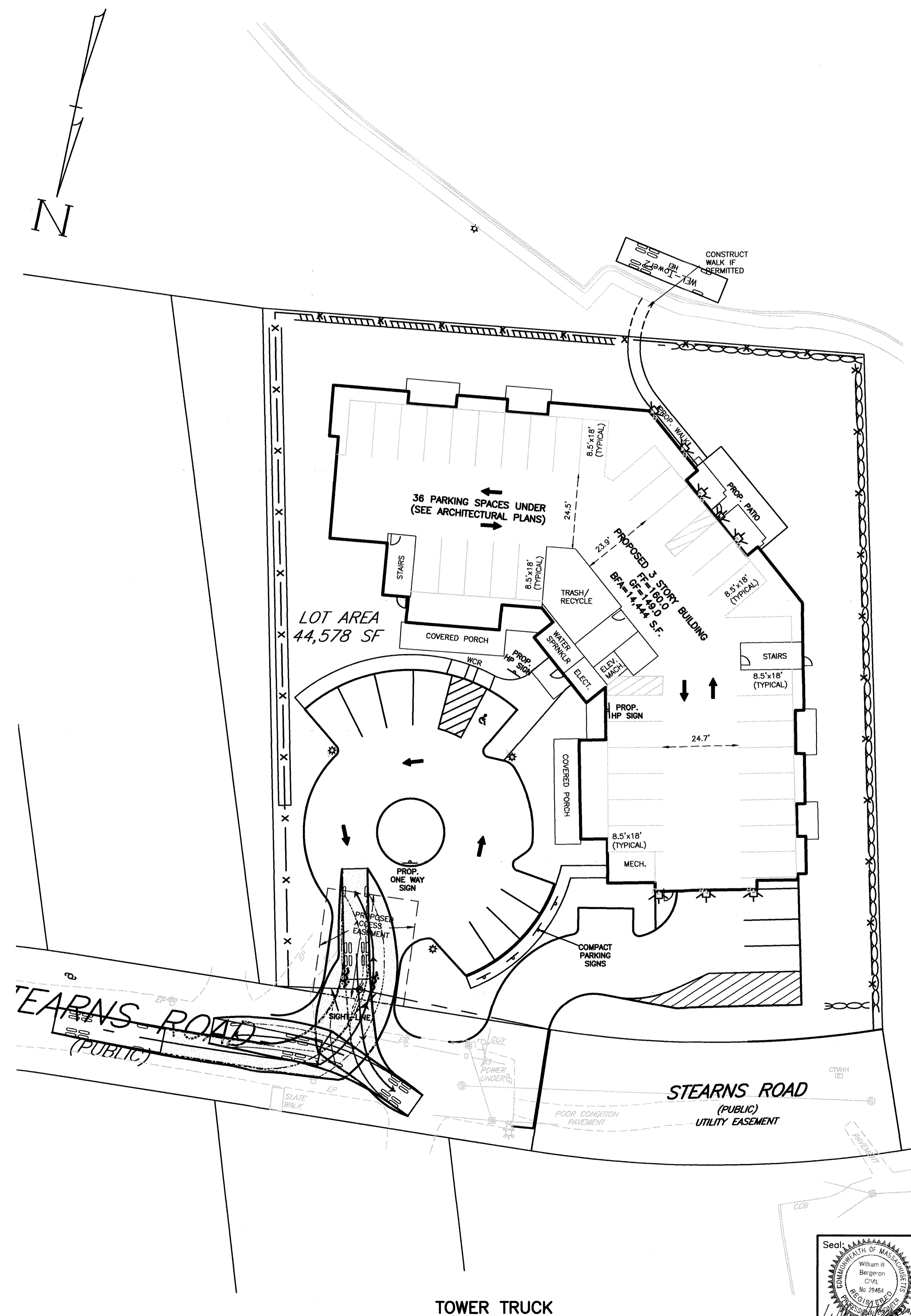
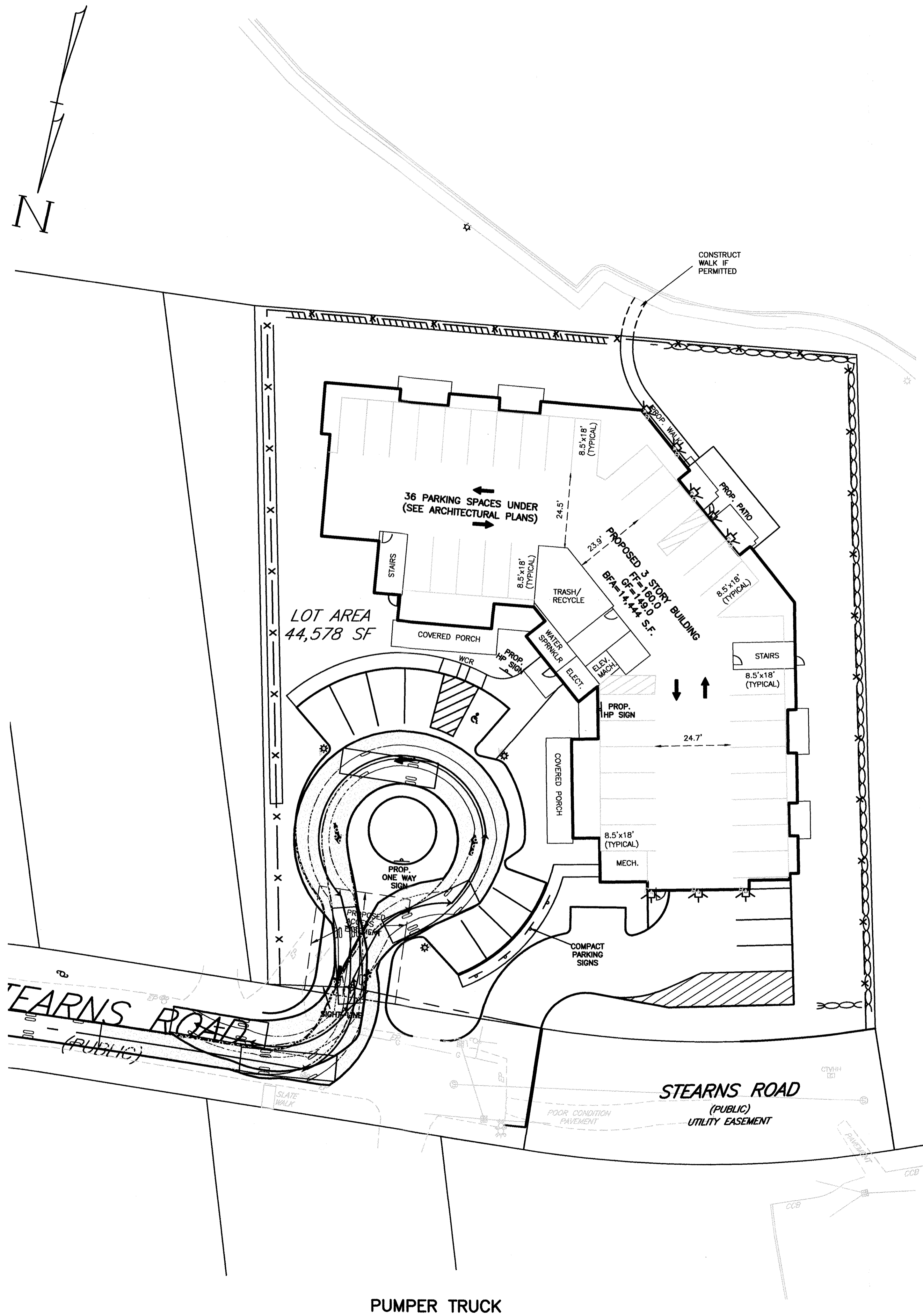
Drawing No.:

C5

SHEET 6 OF 13



LOCUS:
J. DERENZO & ASSOCIATES, LLC
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Design By: WRB
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VRB Comments	Date	Revision
3-7-2019		
12-21-2018		
12-11-2018		
10-19-2018		
7-6-2018		
2-15-2018		

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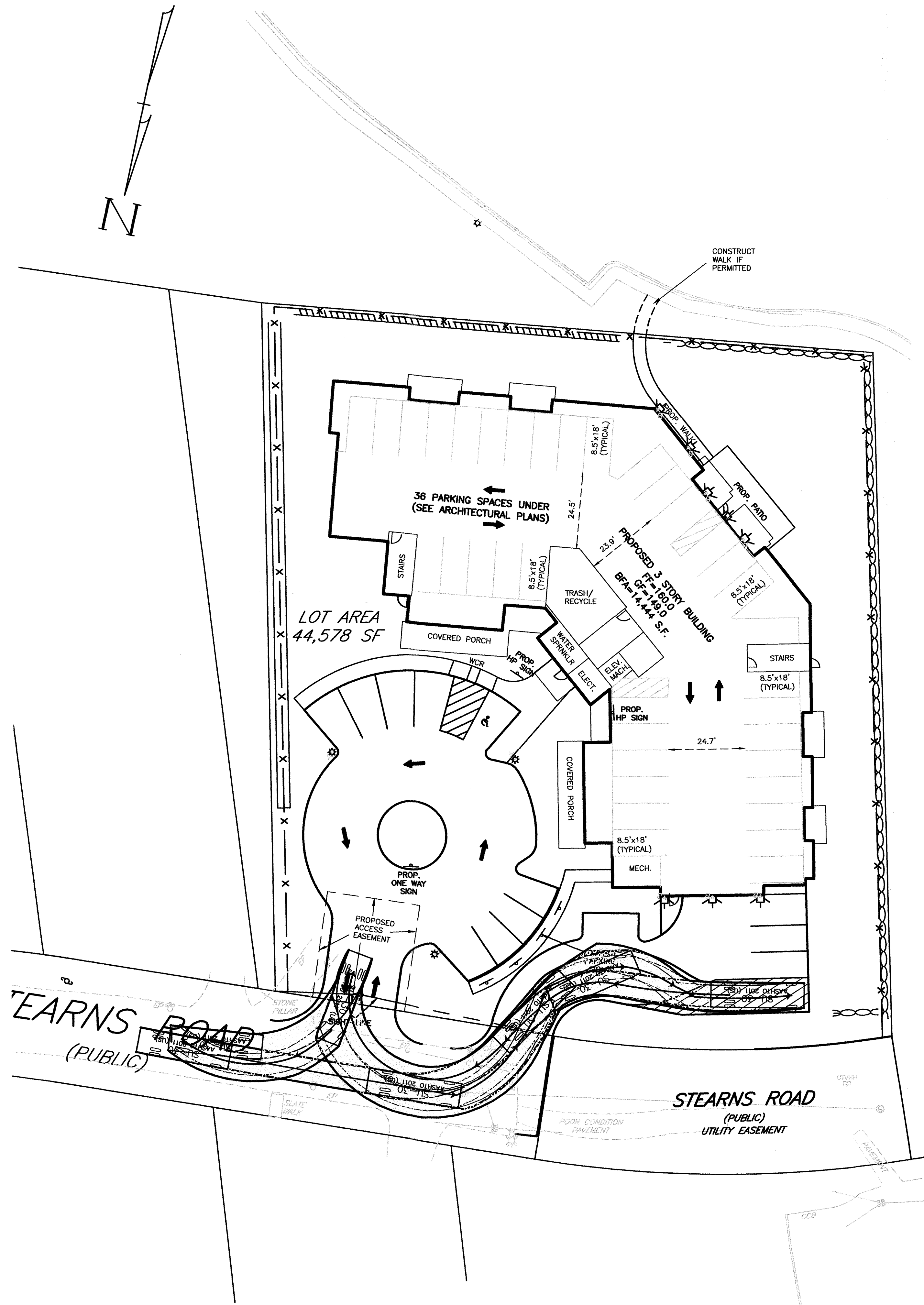
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FIRE VEHICLE ACCESS PLAN
#16 STEARNS ROAD
WELLESLEY, MASS.

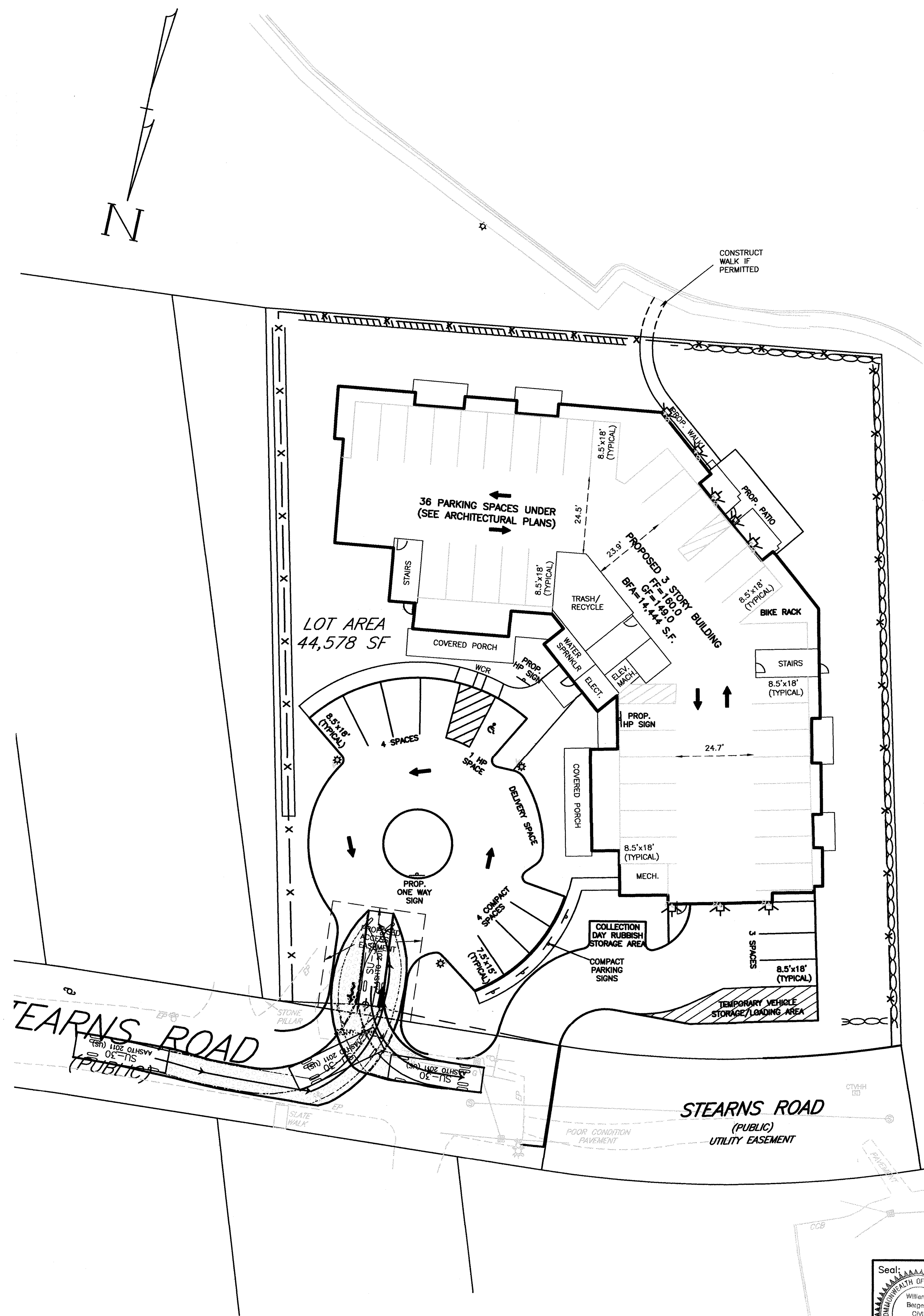
Drawing No.:
C6A

SHEET 7 OF 13

N:\w111SP-16stearns05.dwg, 3/7/2019 9:54:59 AM, EBL



SU-30



RUBBISH TRUCK

Prepared For:

Applicant

Prepared By:

Design By: WRB
Drawn By: EBL
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VRB Comments	3-7-2019	2-20-2019	12-21-2018	10-19-2018	7-6-2018	2-15-2018	Date
SU-30 Exit							
Town Comments							
Drive Locations							
Town Comments							
Submittal							
Building Footprint							

Scale: 1"=20'

0' 10' 20' 40'

Date: January 12, 2018

BUS VEHICLE ACCESS PLAN

#16 STEARNS ROAD
WELLESLEY, MASS.

Drawing Title:

Drawing No.:

C6B

SHEET 8 OF 13

Seal

WILLIAM R. BERGERON
CIVIL
No. 25484
MASSACHUSETTS
2-1-2019

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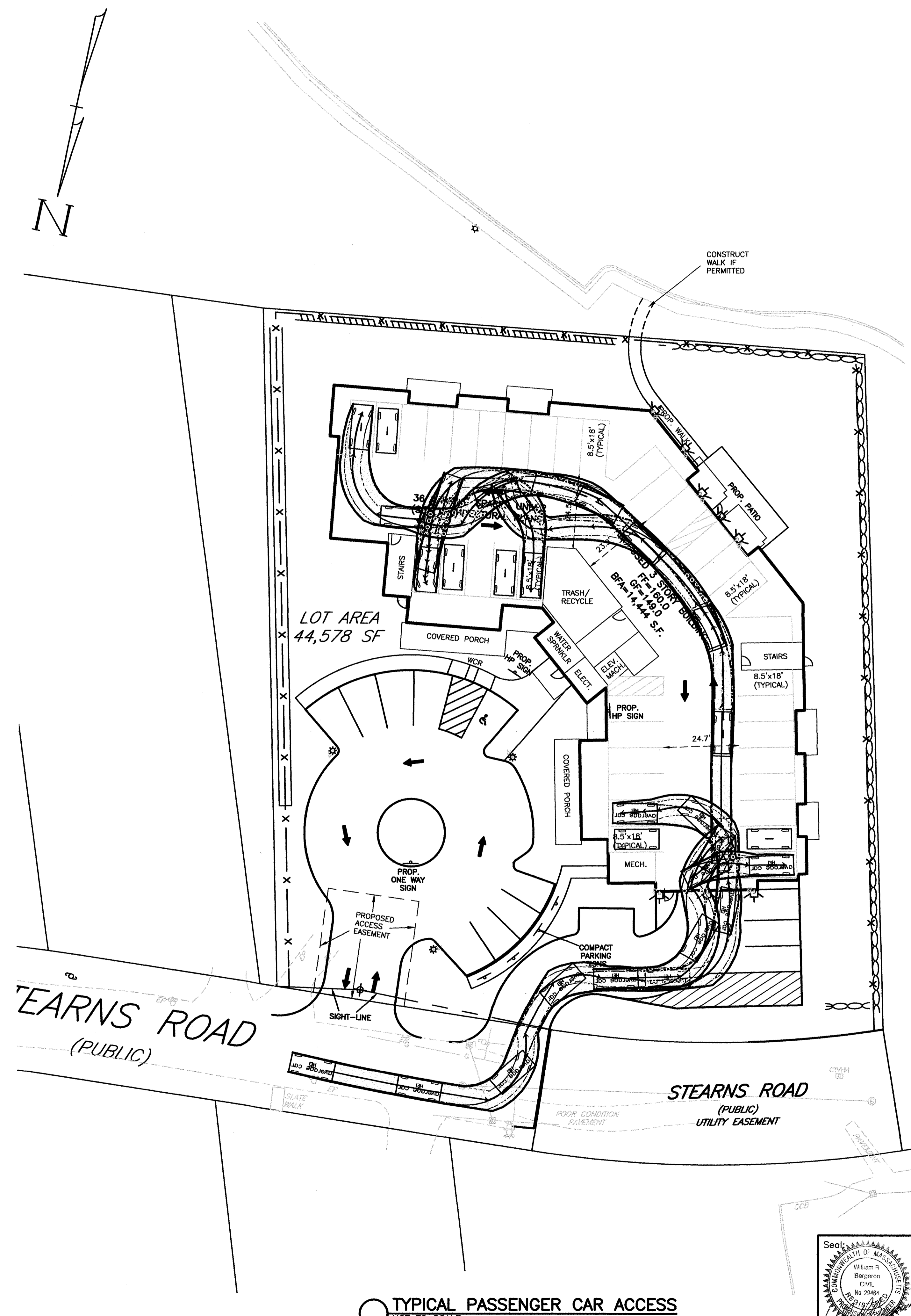
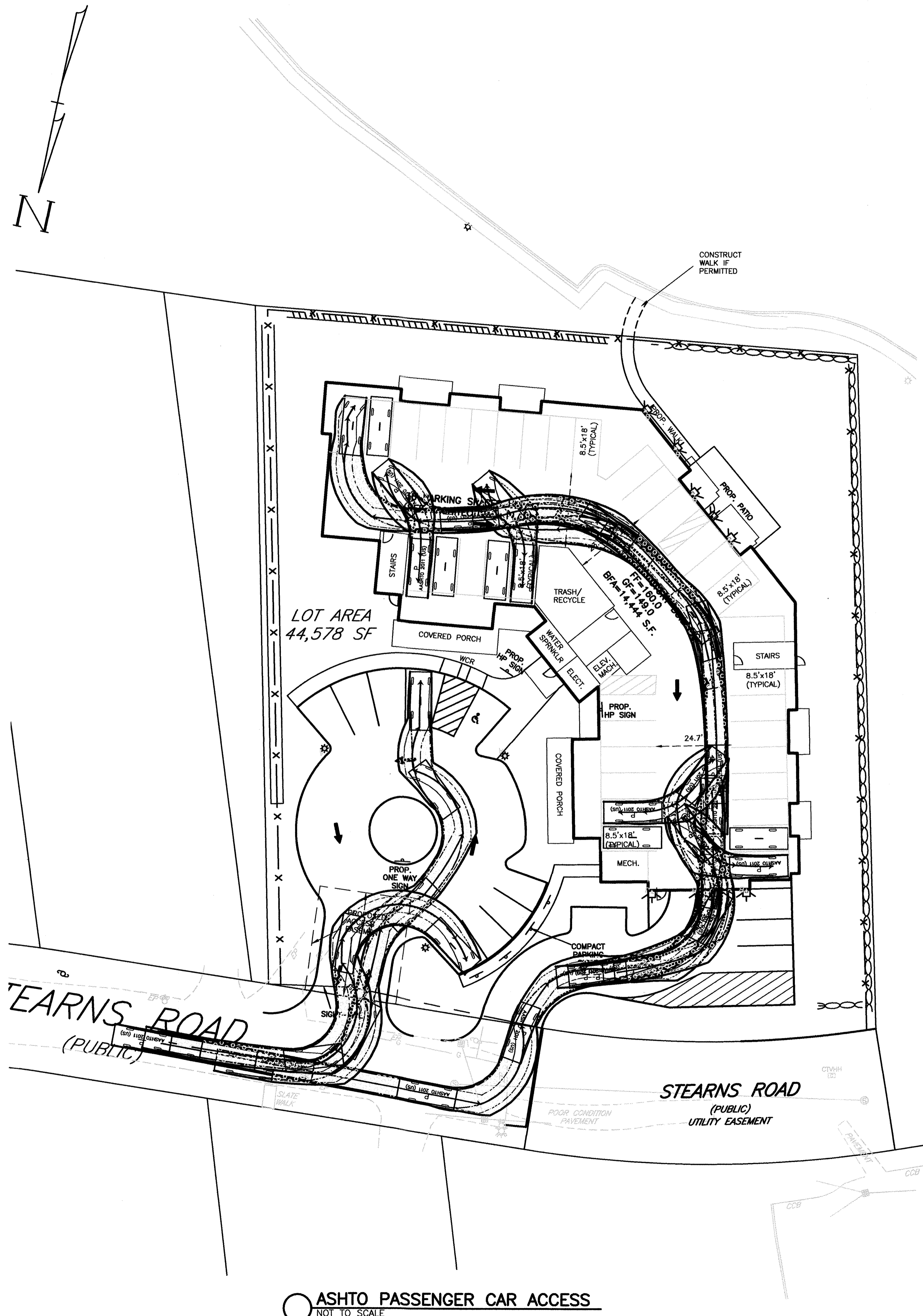
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2-20-2019
12-21-2018
10-19-2018
7-6-2018
2-15-2018

VRB Comments	3-7-2019	2-20-2019	12-21-2018	10-19-2018	7-6-2018	2-15-2018	Date
SU-30 Exit							
Town Comments							
Drive Locations							
Town Comments							
Submittal							
Building Footprint							

Scale: 1"=20'
0' 10' 20' 40'
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BUS VEHICLE ACCESS PLAN
#16 STEARNS ROAD
WELLESLEY, MASS.

Drawing No.:
C6B
SHEET 8 OF 13



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	3-7-2019	2-20-2019	12-21-2018	12-11-2018	10-19-2018	7-6-2018	2-15-2018	Date
VBH Comments								
Parking Space Access								
Town Comments								
Drive Locations								
Town Comments								
Submittal								
Building Footprint								
Revision								

Scale: 1"=20'
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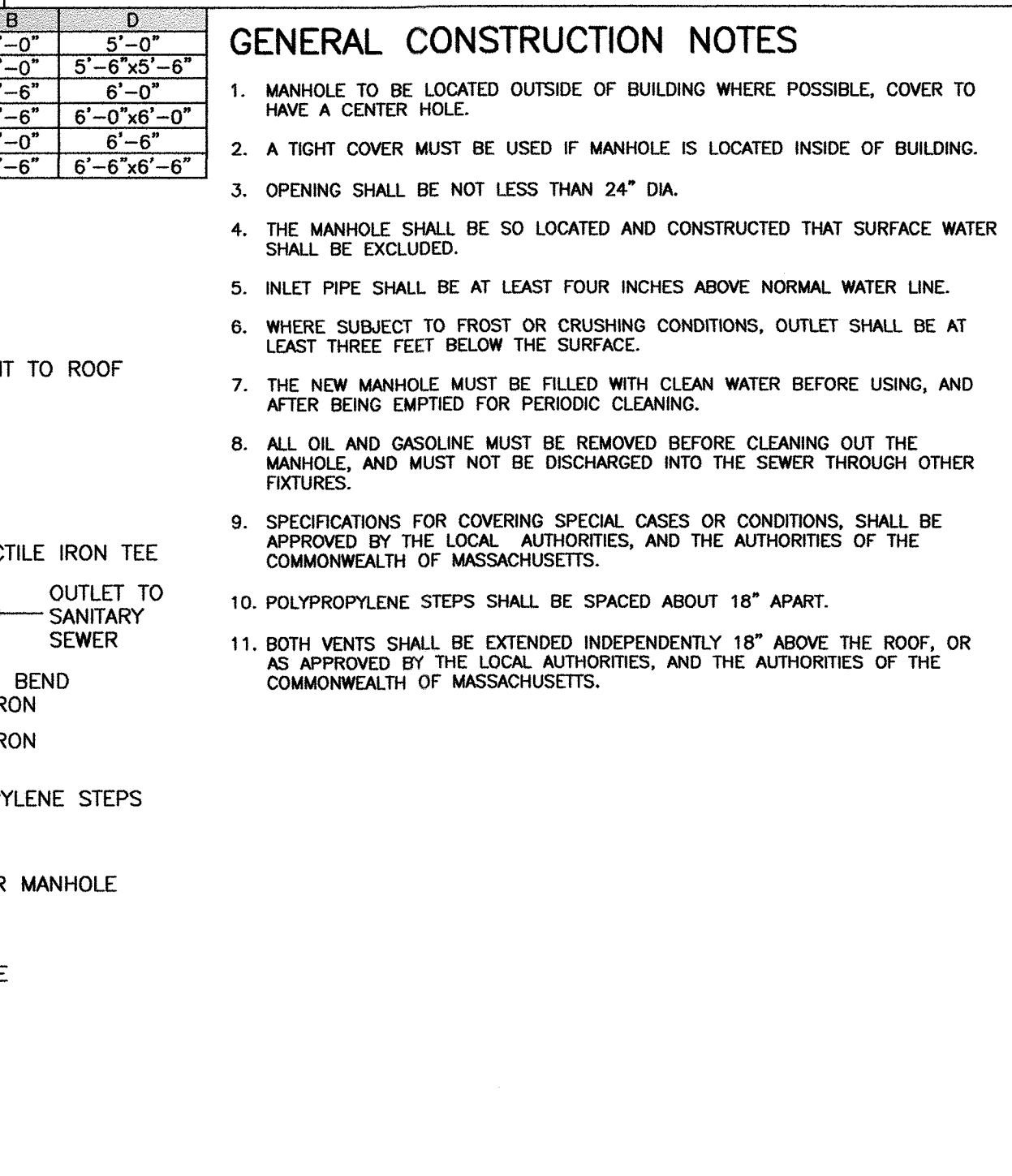
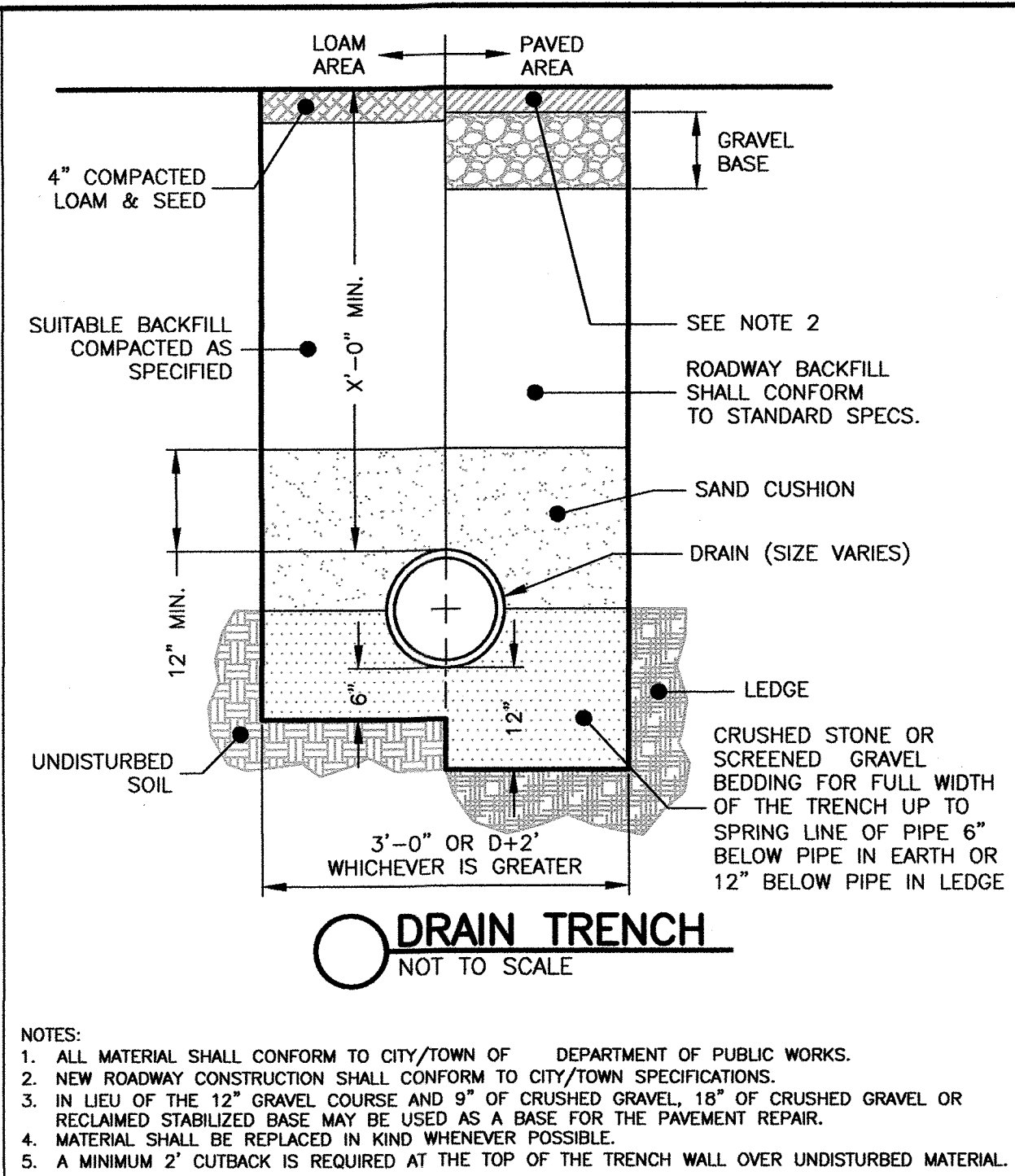
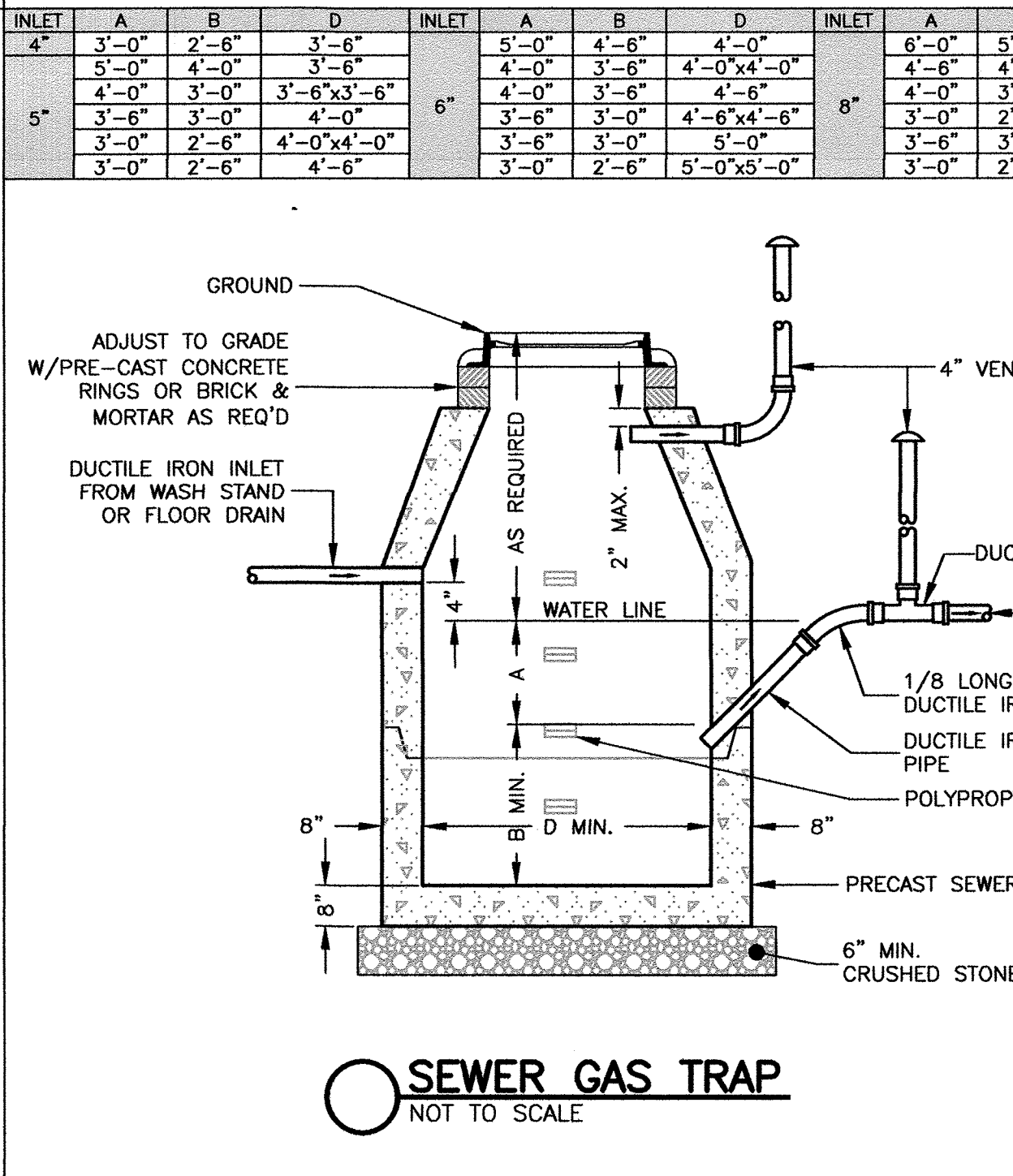
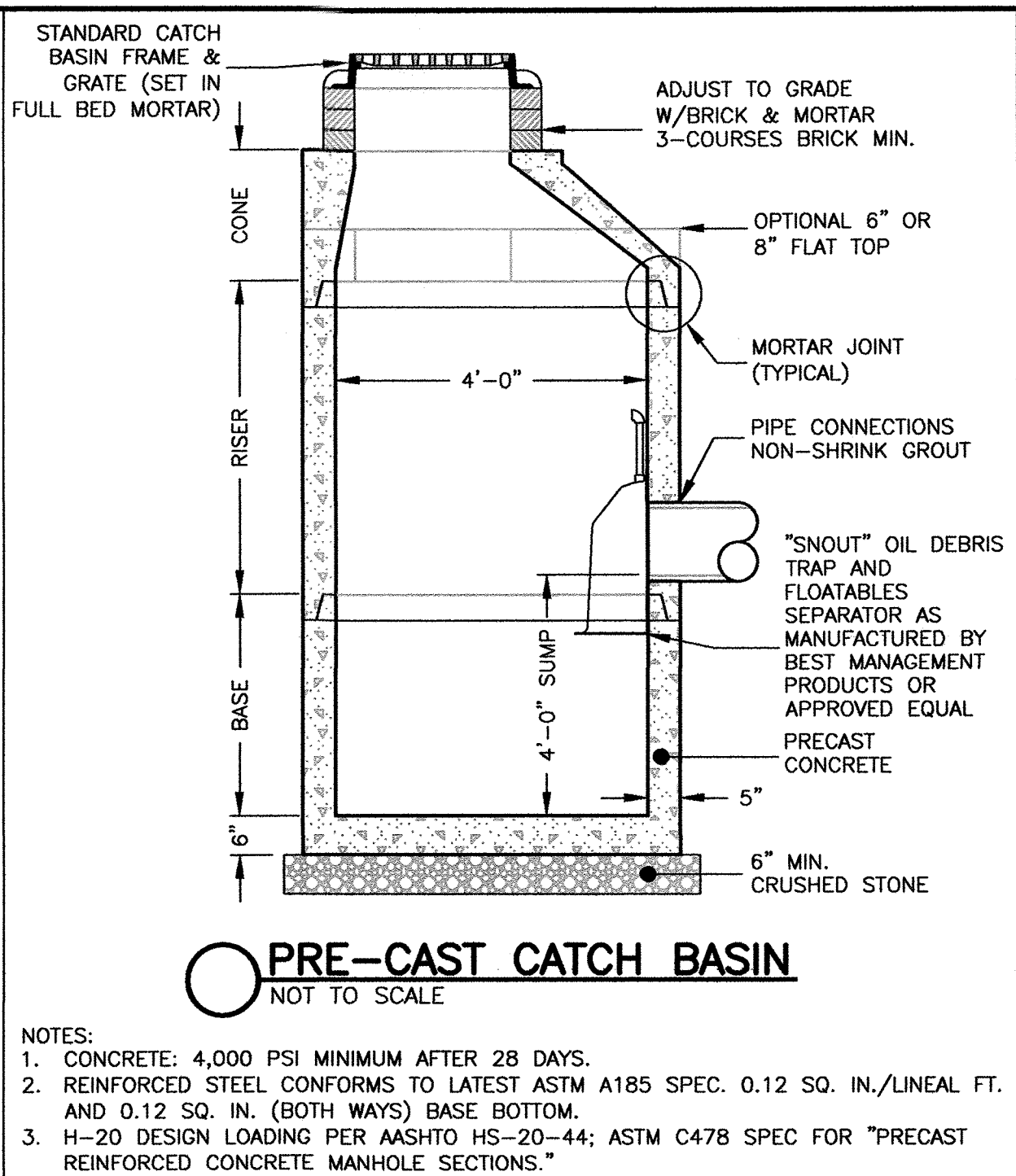
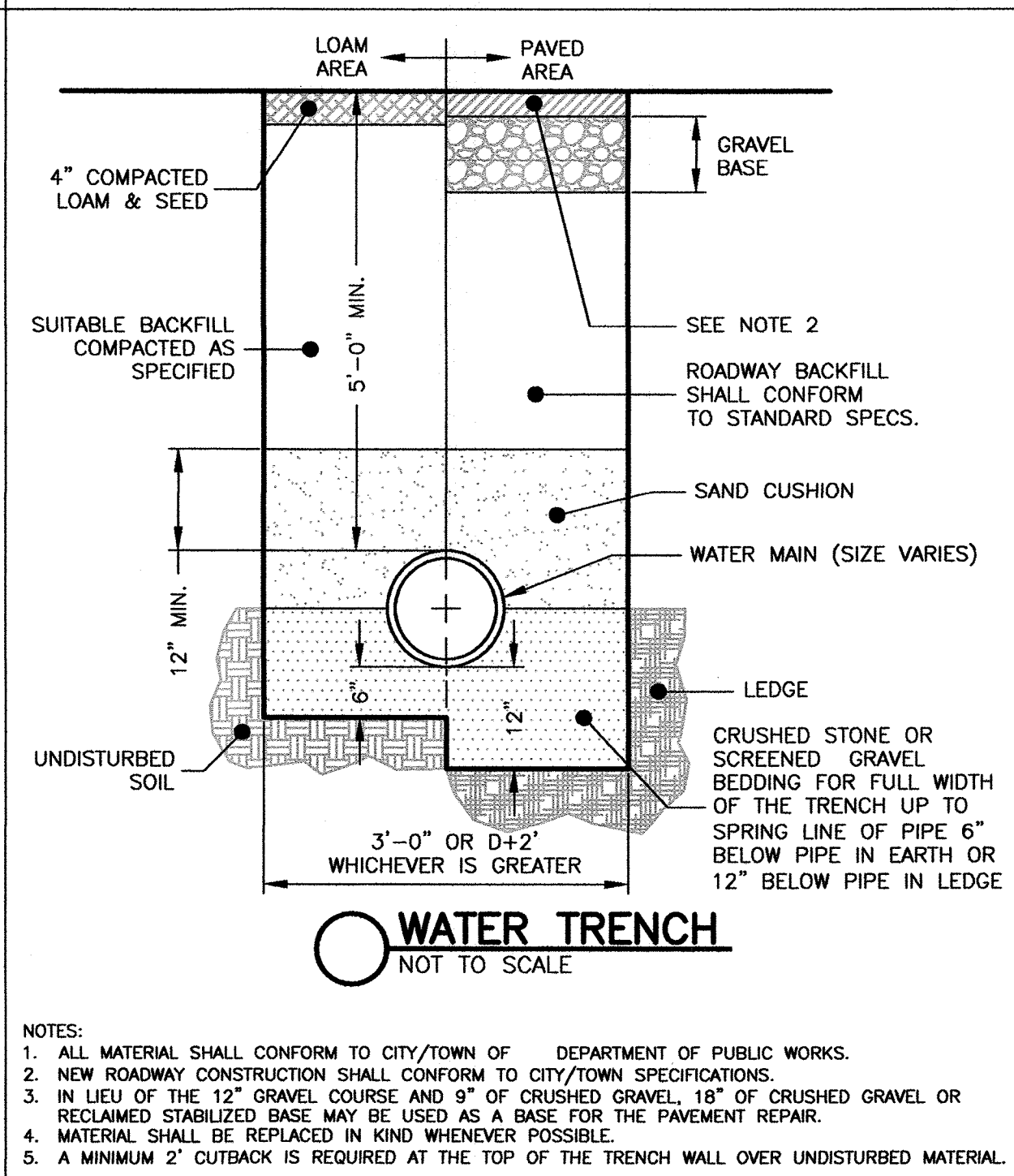
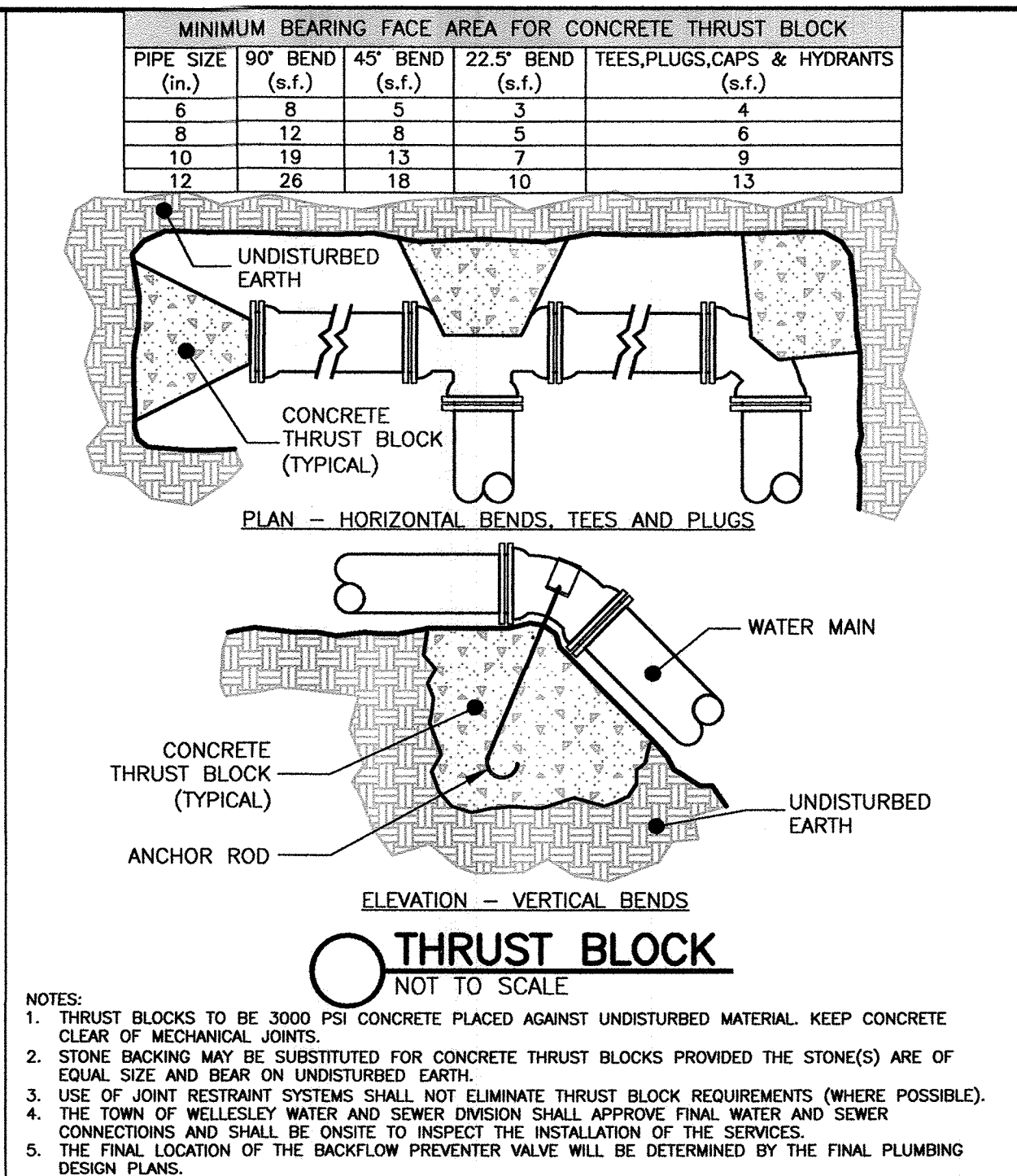
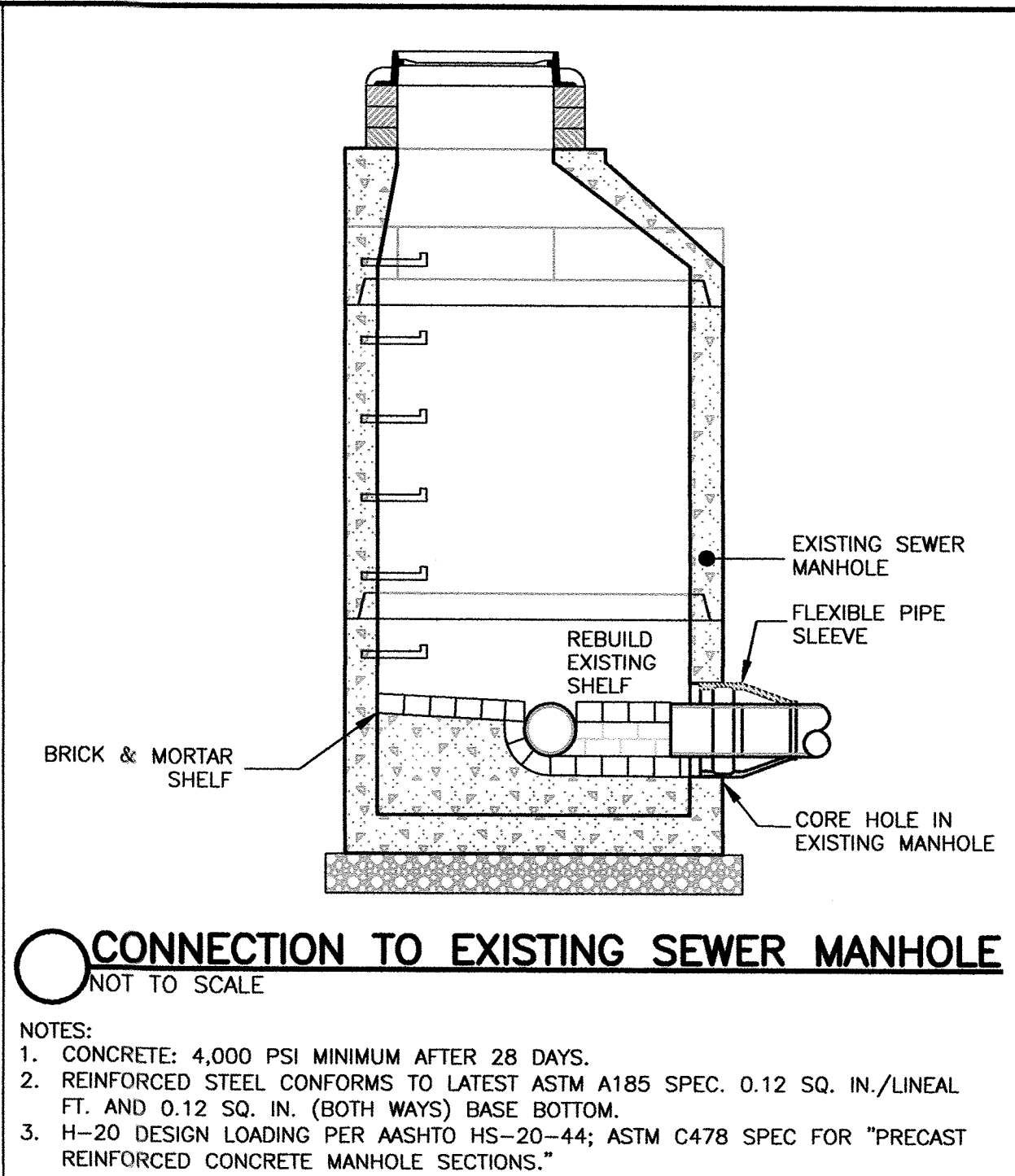
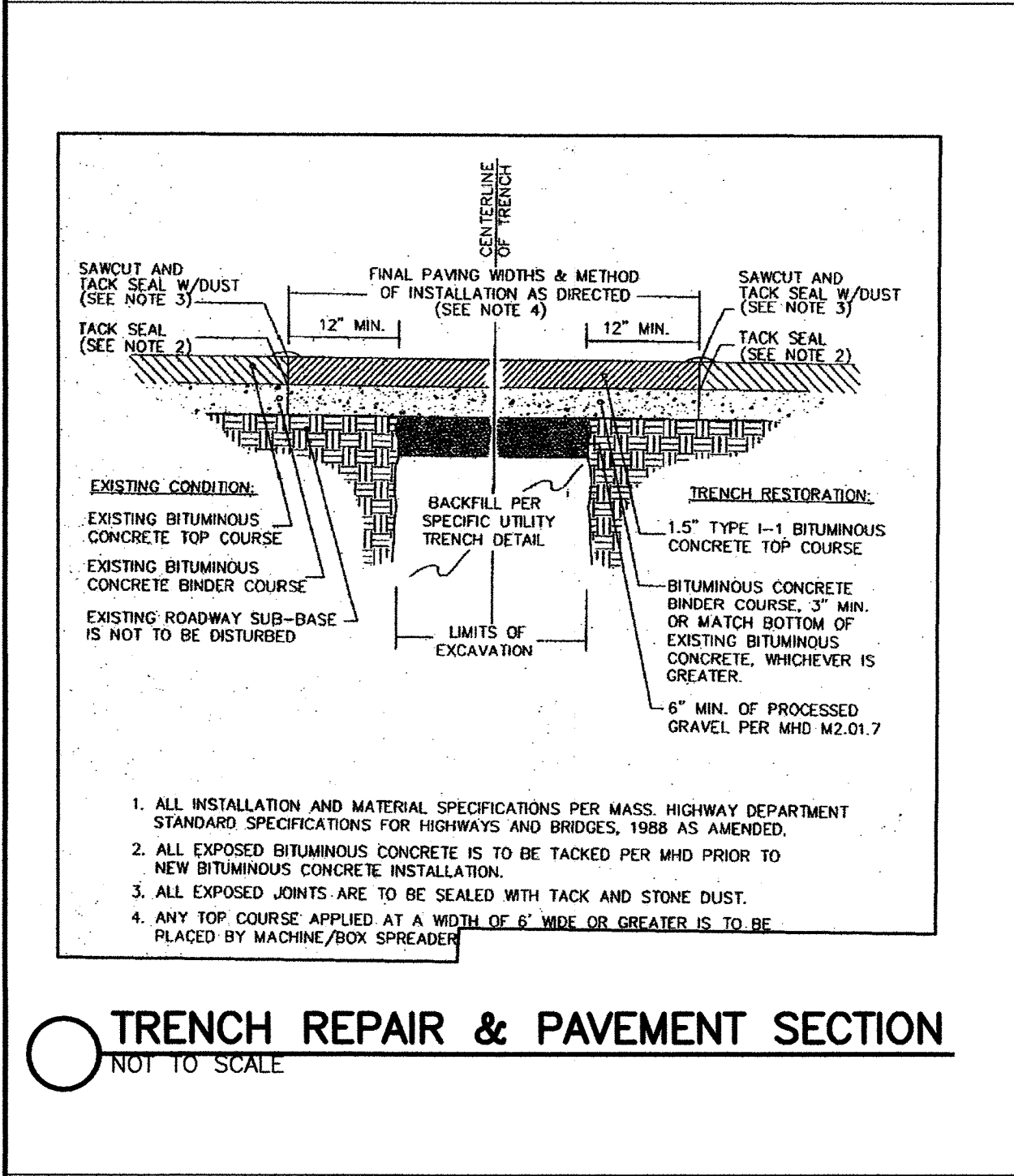
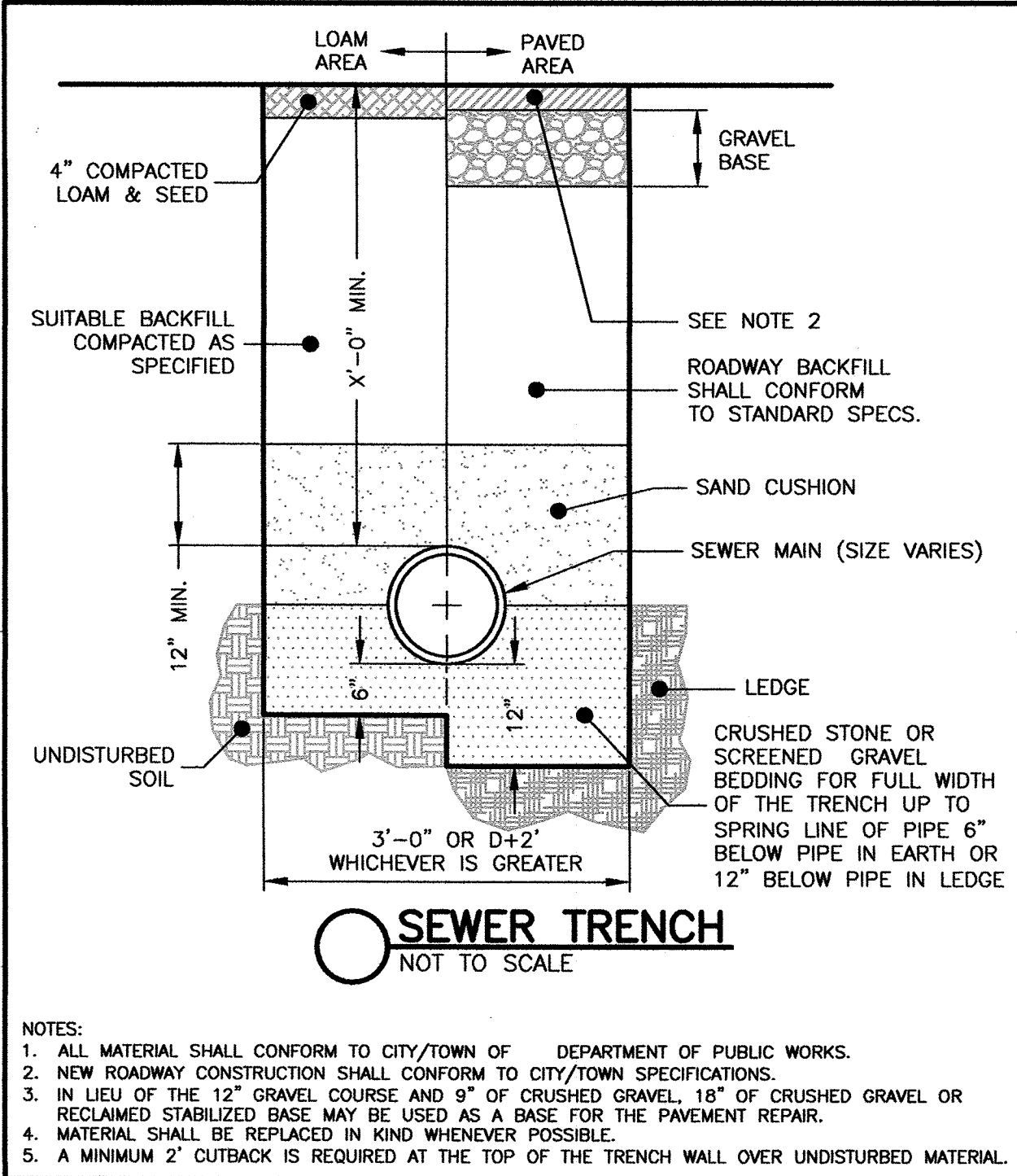
Date: January 12, 2018

FIRE VEHICLE ACCESS PLAN

#16 STEARNS ROAD
WELLESLEY, MASS.

Drawing No.:
C6C

SHEET 9 OF 13



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Rev	Date	Revision
1	3-7-2019	VBH Comments
2	12-21-2018	Town Comments
3	12-11-2018	Drive Locations
4	10-19-2018	Town Comments
5	7-6-2018	Submittal
6	2-15-2018	No Changes This Sheet

Scale: 1"=20'

Date: January 12, 2018

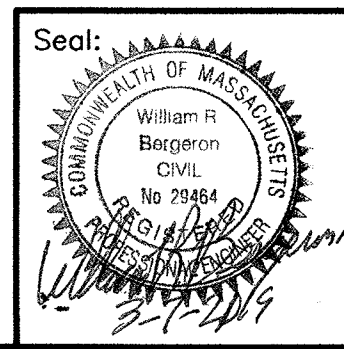
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UTILITY DETAIL SHEET

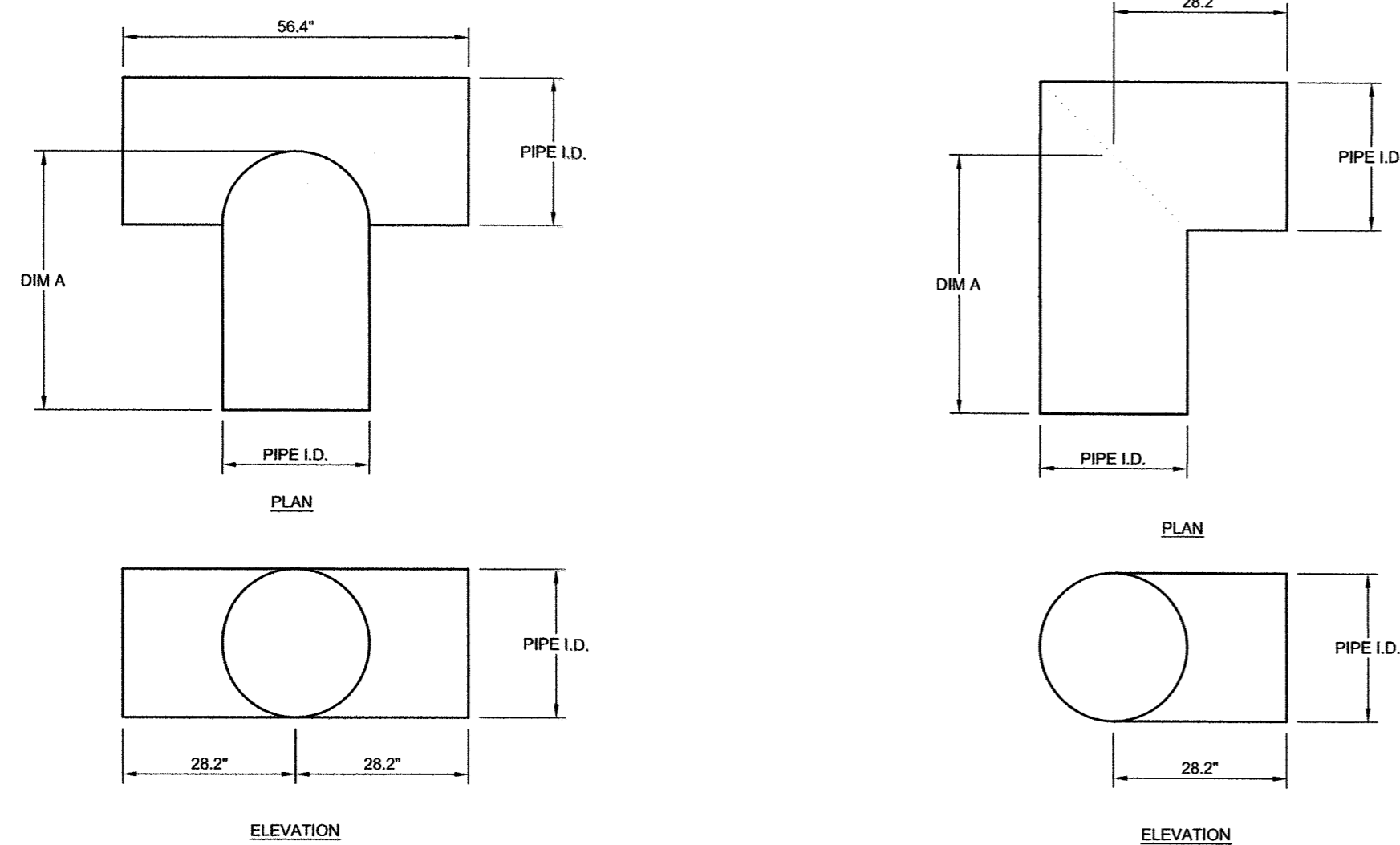
#16 STEARNS ROAD
WELLESLEY, MASS.

Drawing No.: C7

SHEET 10 OF 13



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STANDARD MANIFOLD COMPONENTS				
AVAILABLE DIAMETERS (IN)				
TEE	12	15	18	24
ELBOW	12	15	18	24
DIM A	42	42	48	48

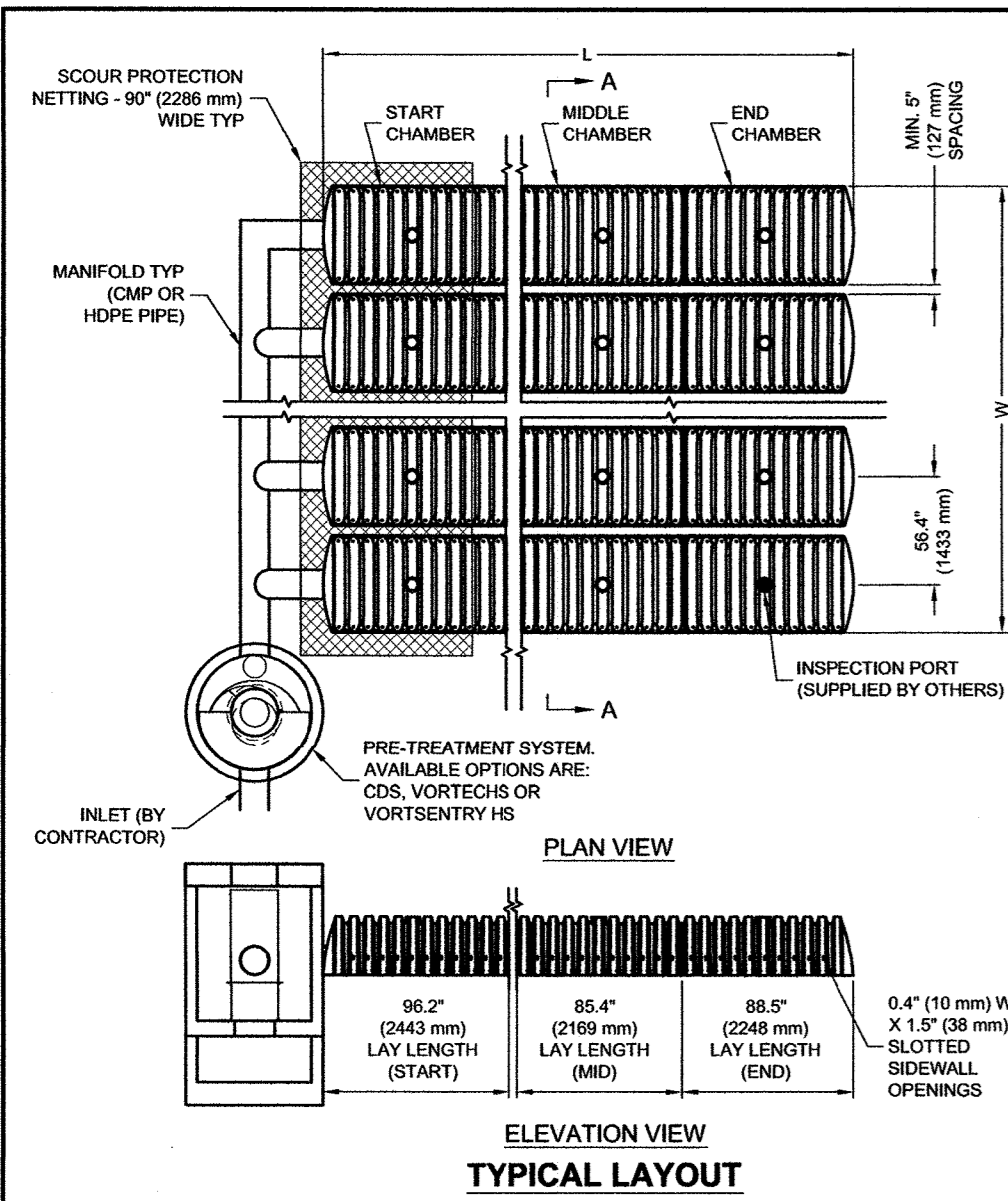
- GENERAL NOTES:
- FITTING MATERIAL TO BE MANUFACTURED FROM CORRUGATED HIGH DENSITY POLYETHYLENE, AASHTO M294 PIPE.
 - FITTINGS TO BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF AASHTO M294.
 - FITTINGS DESIGNED TO PROTRUDE 6" INTO END OF THE INLET CHAMBERS.
 - MANIFOLD TEE AND ELBOW JOINTS TO BE CONNECTED UTILIZING MAR MAC POLYSEAL COUPLERS. REFERENCE WWW.MARMAC.COM

CHAMBERMaxx[®]
PATENT PENDING

CONTECH[®] STANDARD MANIFOLD COMPONENTS
NOT TO SCALE



CHAMBERMAXX STORMWATER RETENTION SYSTEM
STANDARD MANIFOLD DETAILS



CHAMBERMAXX DESIGN DETAILS			
FEATURE	START CHAMBER	MIDDLE CHAMBER	END CHAMBER
OVERALL CHAMBER HEIGHT - IN (mm)	30.3 (770)	30.3 (770)	30.3 (770)
OVERALL CHAMBER WIDTH - IN (mm)	51.4 (1306)	51.4 (1306)	51.4 (1306)
ACTUAL LENGTH - IN (mm)	98.4 (2500)	91.0 (2311)	92.0 (2337)
INSTALLED LAY LENGTHS - IN (mm)	96.2 (2443)	85.4 (2169)	88.5 (2248)
CHAMBER STORAGE VOLUME - CF (m³)	52.5 (1.49)	49.3 (1.39)	48.2 (1.36)
CHAMBER STORAGE PER LINEAR FOOT - CF/LF (m³/m)	6.5 (0.604)	6.9 (0.641)	6.5 (0.604)
*MIN. INSTALLED CHAMBER VOLUME - CF (m³)	78.7 (2.23)	76.7 (2.17)	76.1 (2.15)
*MIN. INSTALLED CHAMBER VOLUME PER LINEAR FOOT - CF/LF (m³/m)	9.8 (0.910)	10.8 (1.003)	10.3 (0.957)
CHAMBER WEIGHT - LB (kg)	85 (38.55)	77 (34.92)	76 (34.47)

*1" (25.4 mm) OF STONE ABOVE AND BELOW CHAMBER, 5" (127 mm) CHAMBER SPACING AND 40% POROSITY

GENERAL NOTES

- ALL ELEVATIONS, DIMENSIONS AND LOCATIONS OF RISERS AND INLETS SHALL BE VERIFIED BY THE ENGINEER OF RECORD.
- PRIOR TO INSTALLATION OF THE CHAMBERMAXX SYSTEM A PRE-CONSTRUCTION MEETING SHALL BE CONDUCTED. THOSE REQUIRED TO ATTEND ARE THE SUPPLIER OF THE SYSTEM, THE GENERAL CONTRACTOR, SUB-CONTRACTORS AND THE ENGINEER.
- CHAMBERMAXX CHAMBERS ARE MANUFACTURED FROM POLYPROPYLENE PLASTIC.
- CHAMBERMAXX SYSTEM TO MEET AASHTO H20H22.5 LIVE LOADING, PER AASHTO LRFD SECTION 12.
- ACCESS COVERS TO MEET AASHTO H20H22.5 LIVE LOADING.
- MINIMUM COVER IS 18-INCHES (457 mm) AND MAXIMUM COVER IS 96-INCHES (2438 mm) TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT. FOR COVER HEIGHTS GREATER THAN 96-INCHES (2438 mm) CONTACT YOUR LOCAL REPRESENTATIVE.
- ALL PARTS PROVIDED BY CONTECH UNLESS OTHERWISE NOTED.
- FOR INFORMATION ON PRE-TREATMENT SYSTEMS, REFERENCE CONTECH PRE-TREATMENT SYSTEM STANDARD DETAILS OR CONTACT YOUR LOCAL REPRESENTATIVE.
- CHAMBERMAXX BY CONTECH CONSTRUCTION PRODUCTS (800) 925-5240

INSTALLATION NOTES

- CHAMBERMAXX INSTALLATION GUIDE TO BE REVIEWED BY CONTRACTOR PRIOR TO INSTALLATION.
- PRIOR TO PLACING BEDDING, THE FOUNDATION MUST BE CONSTRUCTED TO A UNIFORM AND STABLE GRADE. IN THE EVENT THAT UNSUITABLE FOUNDATION MATERIALS ARE ENCOUNTERED DURING EXCAVATION, A TENSAR B6 GEOTEXTILE SHALL BE UTILIZED OR UNSUITABLE MATERIAL SHALL BE REMOVED AND BROUGHT BACK TO GRADE WITH FILL MATERIAL AS APPROVED BY THE ENGINEER OF RECORD. ONCE THE FOUNDATION PREPARATION IS COMPLETE, THE BEDDING MATERIAL CAN BE PLACED.
- THE SCOUR PROTECTION NETTING TO EXTEND 1'-0" (305 mm) BEYOND OUTSIDE EDGE OF INLET CHAMBERS.
- COVER ANY OPEN VOID SPACES GREATER THAN 3" (76 mm) ON CHAMBERS WITH A NON-WOVEN GEOTEXTILE TO PREVENT INFILTRATION OF BACKFILL MATERIAL.
- STONE EMBEDMENT MATERIAL SHALL BE INSTALLED TO 95% STANDARD PROCTOR DENSITY AND PLACED IN 6-INCH (152 mm) TO 8-INCH (203 mm) LIFTS SUCH THAT THERE IS NO MORE THAN A TWO LIFT DIFFERENTIAL BETWEEN ANY OF THE CHAMBERS AT ANY TIME. GRANULAR BACKFILL MATERIAL SHALL BE COMPACTED TO 95% STD. BACKFILLING SHALL BE ADVANCED ALONG THE LENGTH OF THE CHAMBER ROWS AT THE SAME RATE TO AVOID DIFFERENTIAL LOADING AND DISPLACEMENT OF THE CHAMBERS. THE MINIMUM CHAMBER SPACING MUST BE MAINTAINED.
- REFER TO CHAMBERMAXX INSTALLATION GUIDE FOR TEMPORARY CONSTRUCTION LOADING GUIDELINES.
- IT IS ALWAYS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW OSHA GUIDELINES FOR SAFE PRACTICES.
- GENERAL INSTALLATION METHODS AND MATERIALS TO BE IN ACCORDANCE WITH ASTM D2321.

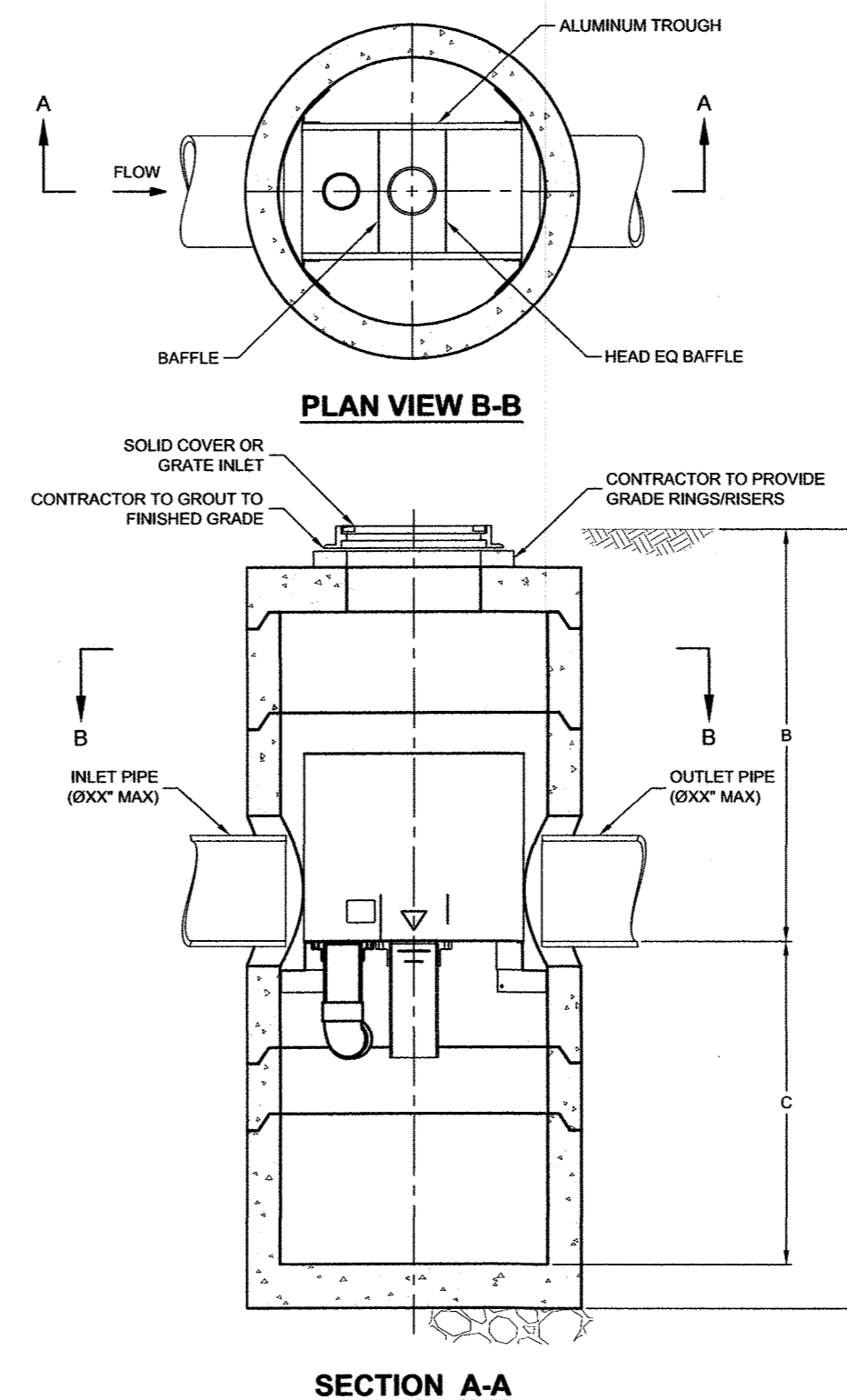
CHAMBERMaxx[®]
PATENT PENDING



CHAMBERMAXX STORMWATER RETENTION
STANDARD DETAIL
PRE-TREATMENT STRUCTURE OPTION

CONTECH[®] CHAMBERMAXX 330XLHD
NOT TO SCALE

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SECTION A-A

VortSentry[®]

THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING PATENTS: U.S. PAT. NO. 7,165,912; U.S. PAT. NO. 7,165,913; U.S. PAT. NO. 7,165,914

VORTSENTRY HS DESIGN NOTES

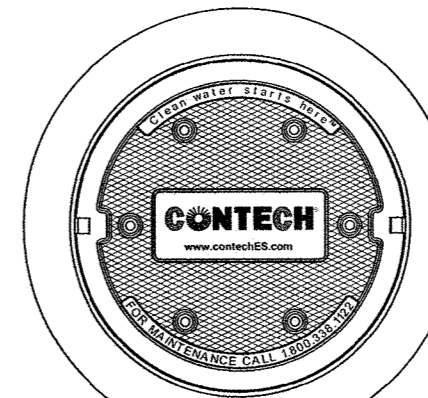
VSHS RATED TREATMENT CAPACITY IS SHOWN IN THE TABLE BELOW, OR PER LOCAL REGULATIONS. MAXIMUM HYDRAULIC INTERNAL BYPASS CAPACITY VARIES. CONTACT YOUR CONTECH REPRESENTATIVE FOR ADDITIONAL INFORMATION.

THE STANDARD SOLID COVER CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW.

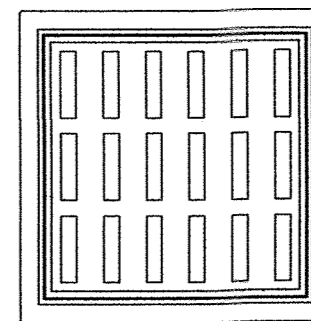
CONFIGURATION OPTION DESCRIPTION

GRATE INLET (NO INLET PIPE)
GRATE INLET WITH INLET PIPE

VortSentry Model	Manhole Diameter (ID)	Total Treatment Flow Rate		Typical Total Distance Rim to Outside Bottom		Typical Total Distance Rim to Invert		Typical Depth Below Invert (Inside)		Approximate Minimum Distance Rim to Invert		Maximum Pipe Diameter (ID)		
		ft	mm	ft	m	ft	m	ft	m	ft	m	in	mm	
HS36	3	900	0.55	15.6	10.16	3.10	4.08	1.24	5.58	1702	3.00	0.91	18	450
HS48	4	1200	1.20	34.0	13.25	4.04	6.00	1.83	6.75	2057	4.00	1.22	24	600
HS60	5	1500	2.20	62.3	15.13	4.81	6.50	1.98	7.96	2426	4.82	1.47	30	750
HS72	6	1800	3.70	104.8	16.56	5.05	6.75	2.06	9.15	2788	5.58	1.70	36	900
HS84	7	2100	5.60	158.6	18.85	5.75	7.75	2.36	10.35	3156	5.00	1.52	42	1050
HS96	8	2400	8.10	229.4	20.87	6.38	8.50	2.59	11.54	3516	6.91	2.11	48	1200



FRAME AND COVER
(DIAMETER VARIES)
N.T.S.



FRAME AND GRATE
(24" SQUARE)
N.T.S.

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	
WATER QUALITY FLOW RATE (CFS)	*
PEAK FLOW RATE (CFS)	*
RETURN PERIOD OF PEAK FLOW (YRS)	*
PIPE DATA	LE MATERIAL DIAMETER
INLET PIPE 1	*
OUTLET PIPE	*
RIM ELEVATION	*
ANTI-FLOTATION BALLAST	WIDTH HEIGHT
NOTES/SPECIAL REQUIREMENTS:	
* PER ENGINEER OF RECORD	

GENERAL NOTES

- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- DIMENSIONS MARKED WITH (*) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
- FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
- VORTSENTRY HS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
- STRUCTURE SHALL MEET AASHTO H20 AND CASTINGS SHALL MEET AASHTO M306 LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.

INSTALLATION NOTES

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE VORTSENTRY HS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
- CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.



VORTSENTRY HS
STANDARD DETAIL

ADS, Inc. Drainage Handbook Retention/Detention • 6-14

Figure 6-8a
Roof Drain with Wye Cleanout
For additional detail see ADS Standard Details #1001 & #1003

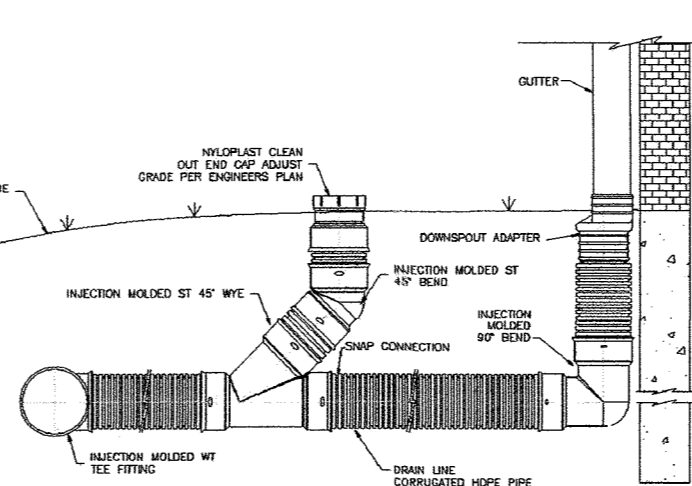
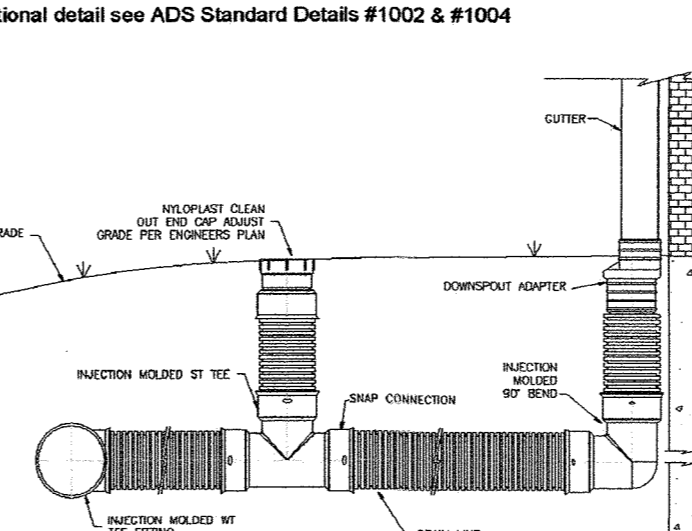


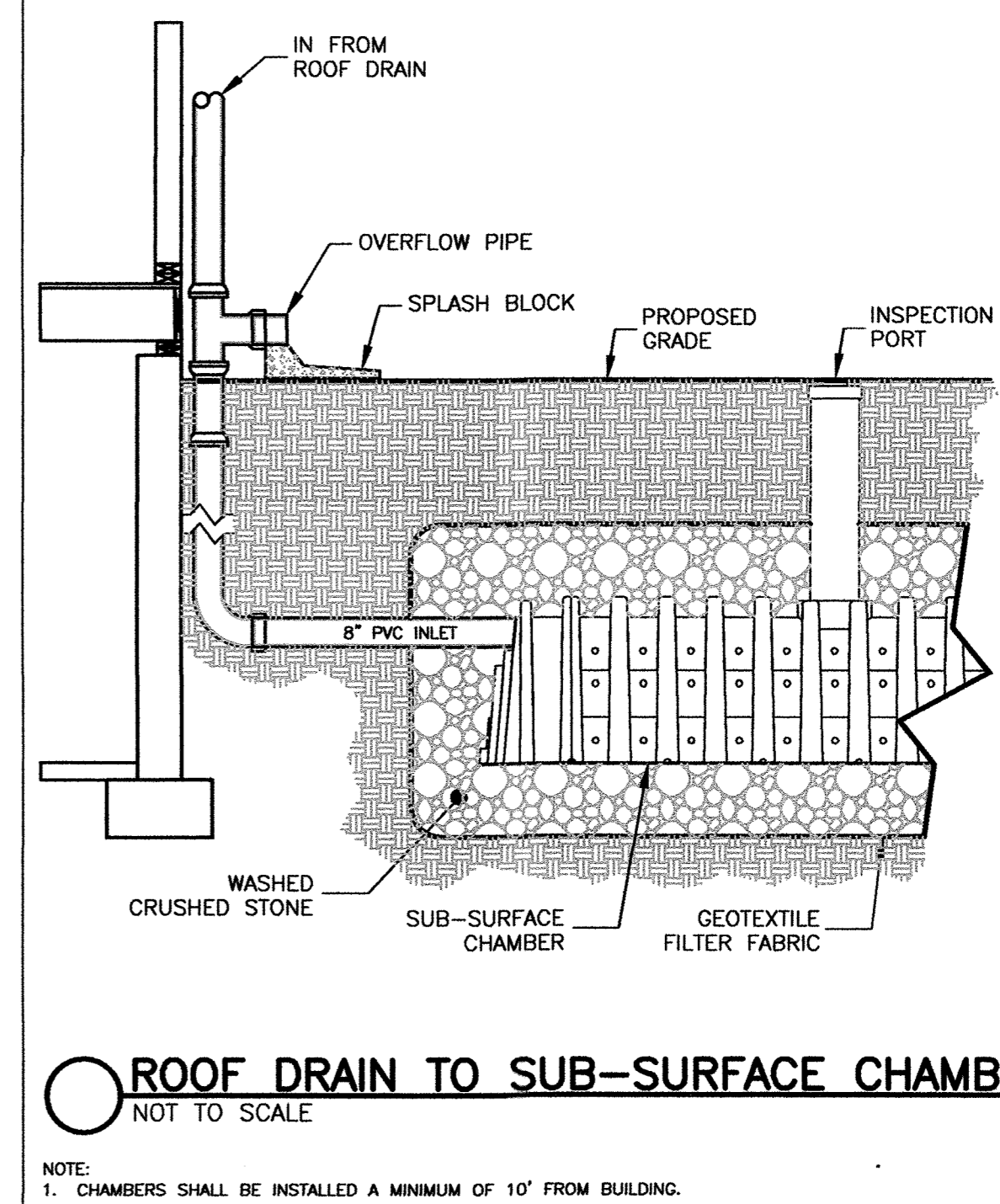
Figure 6-8b
Roof Drain with Tee Cleanout
For additional detail see ADS Standard Details #1002 & #1004



© ADS, Inc., June 2009

ADS ROOF DRAIN AND CLEAN OUT
NOT TO SCALE

CONTECH[®] VORTSENTRY HS
NOT TO SCALE



NOTE:
1. CHAMBERS SHALL BE INSTALLED A MINIMUM OF 10' FROM BUILDING.

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Checked By: WRB

Project File: WEL-0012

Comp. No: WEL11

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Revision

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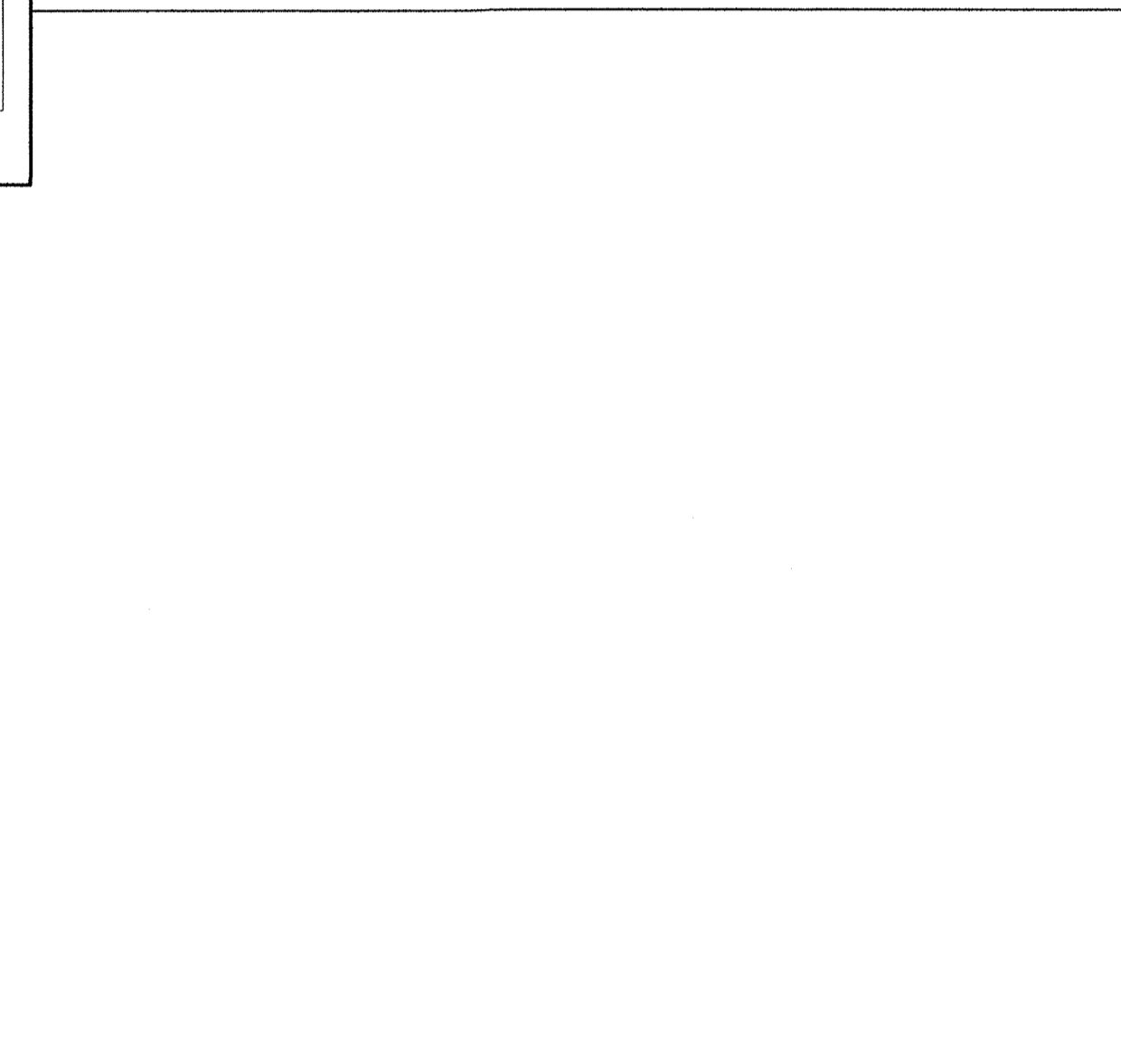
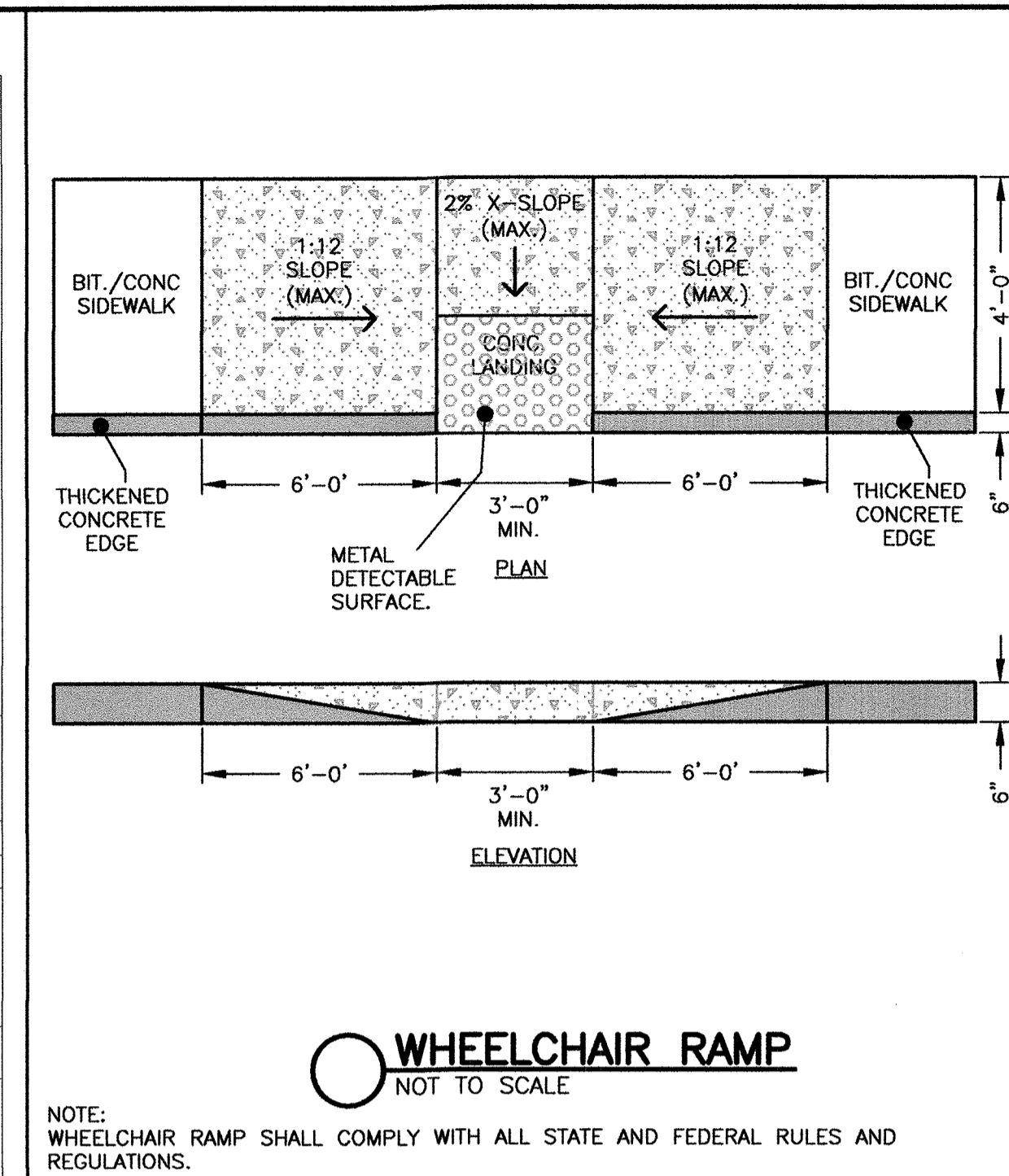
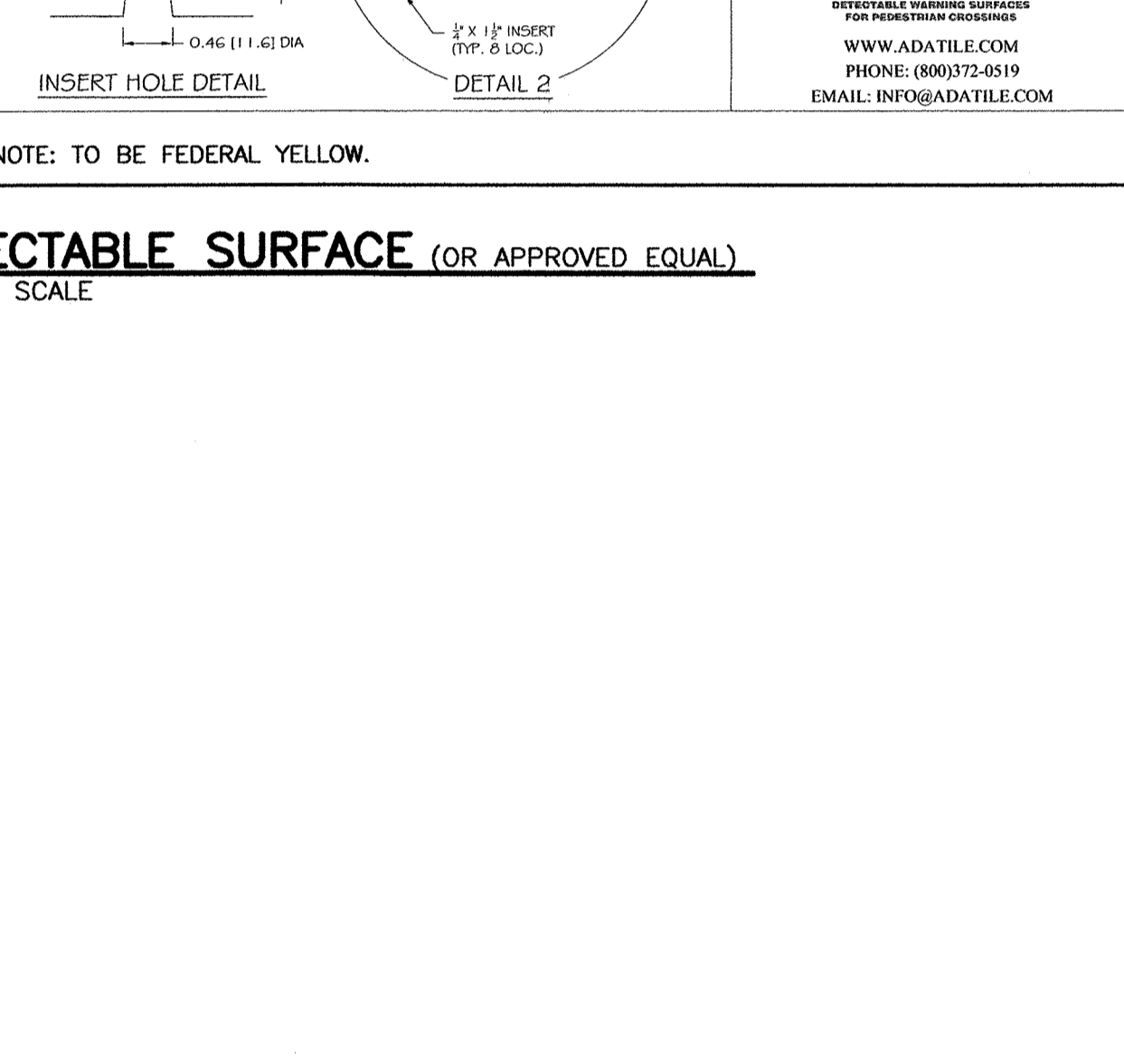
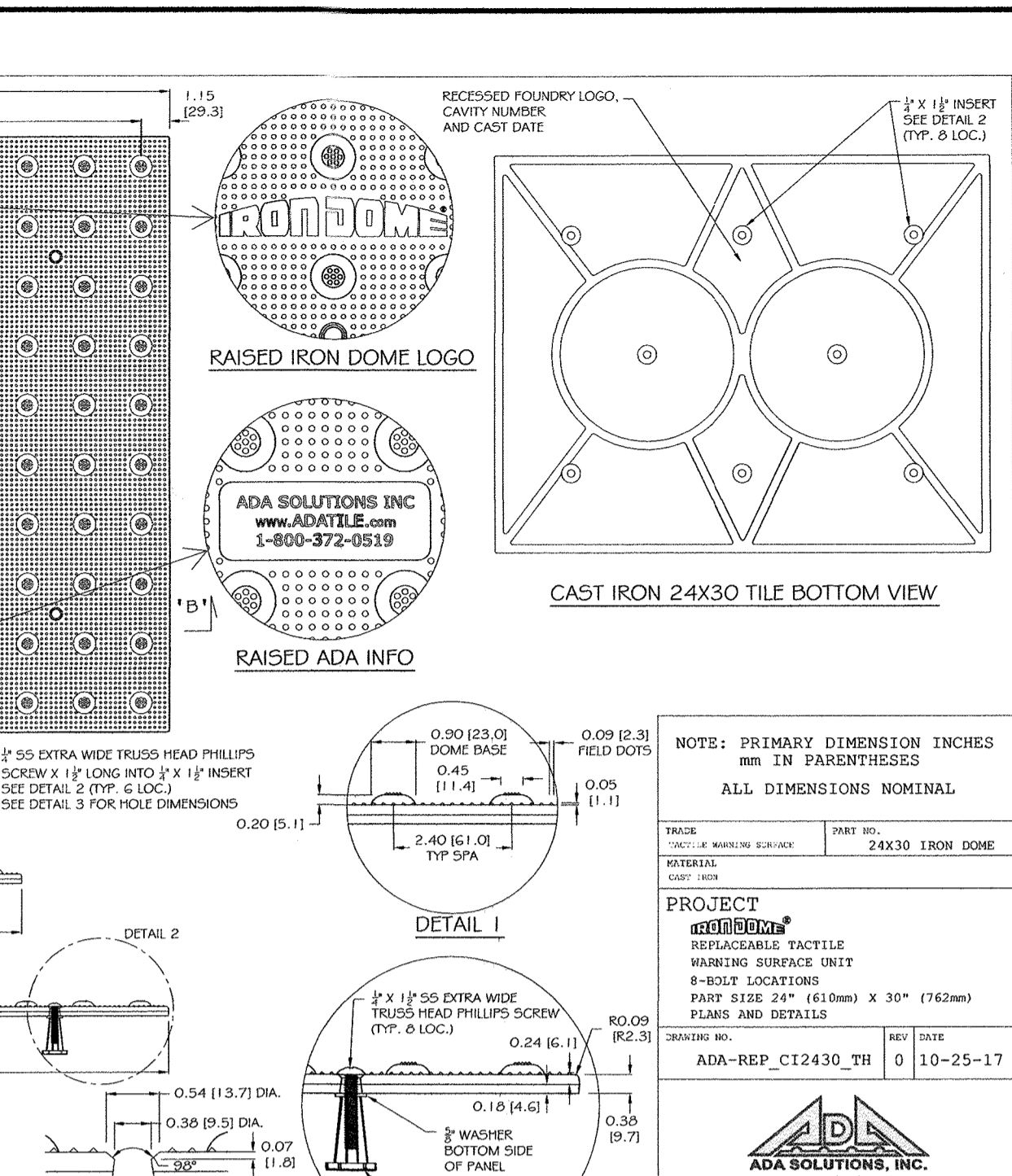
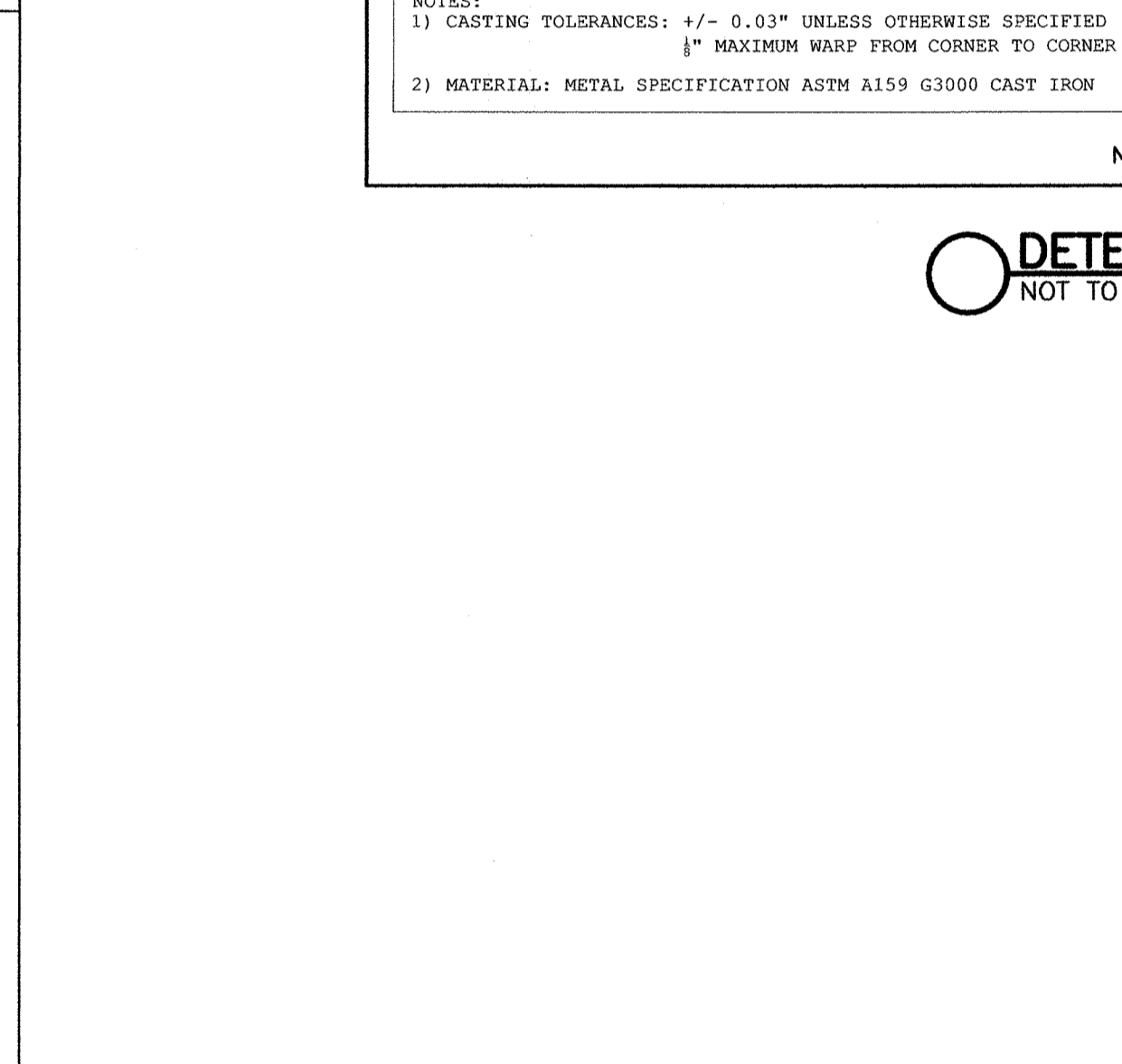
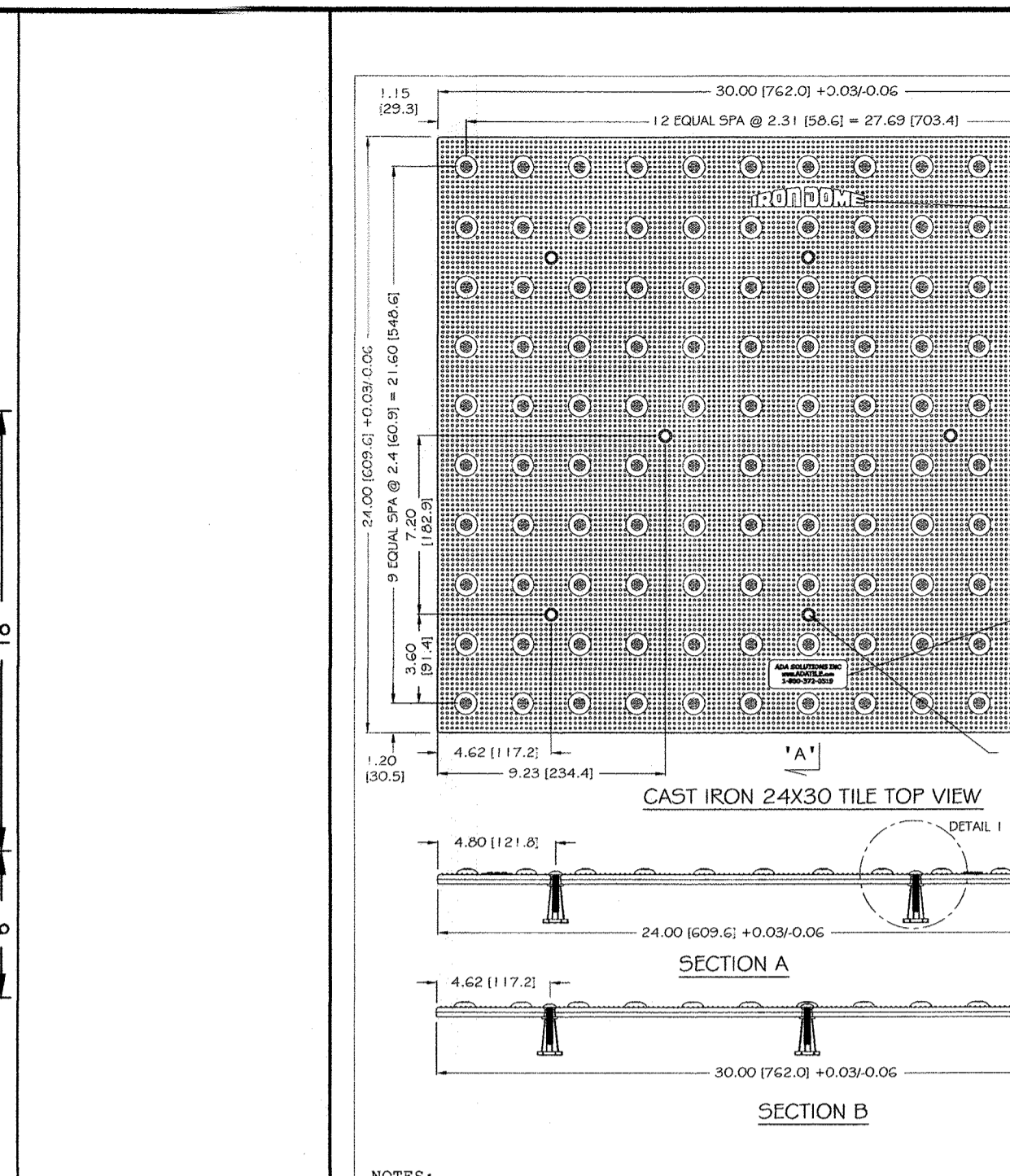
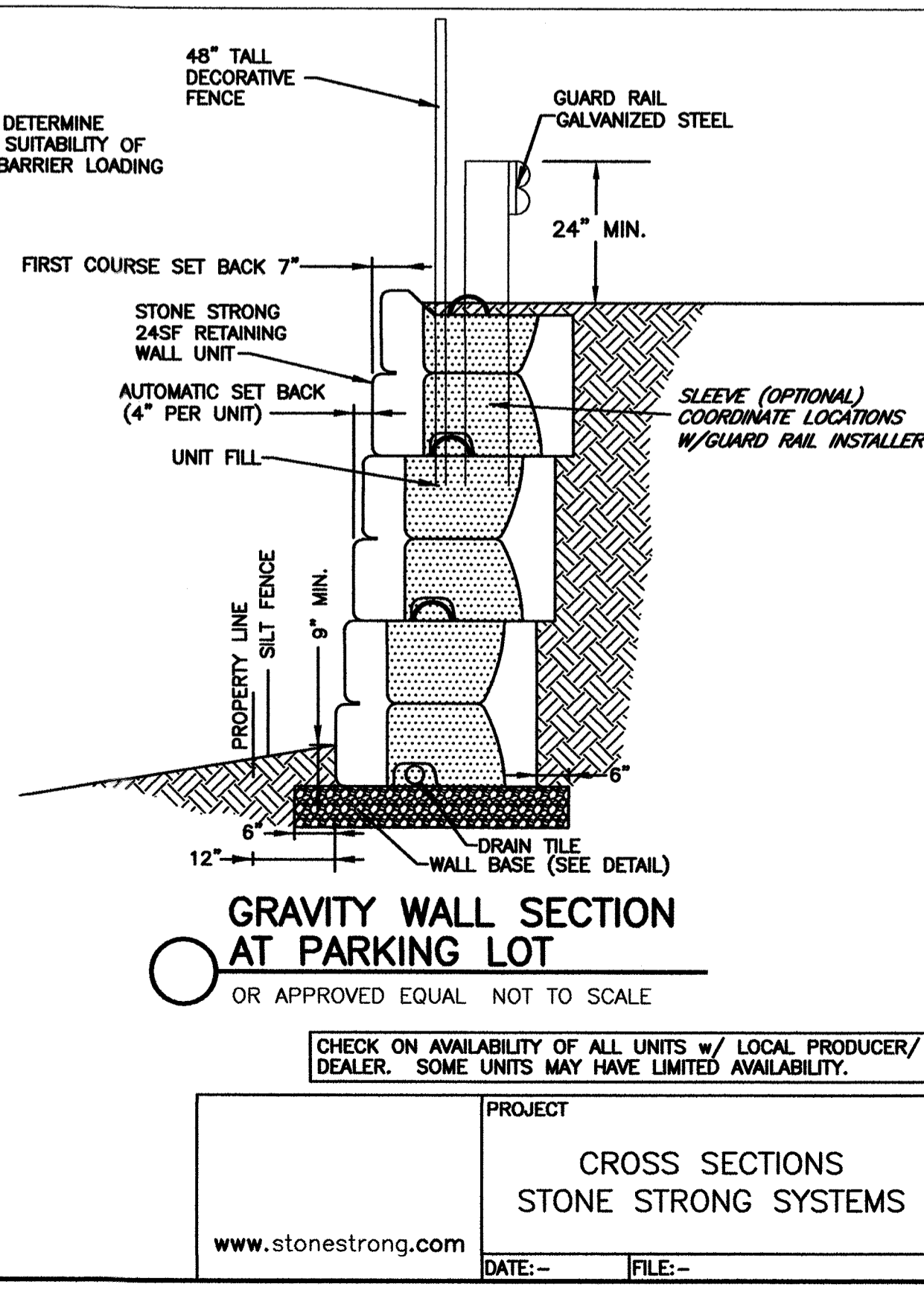
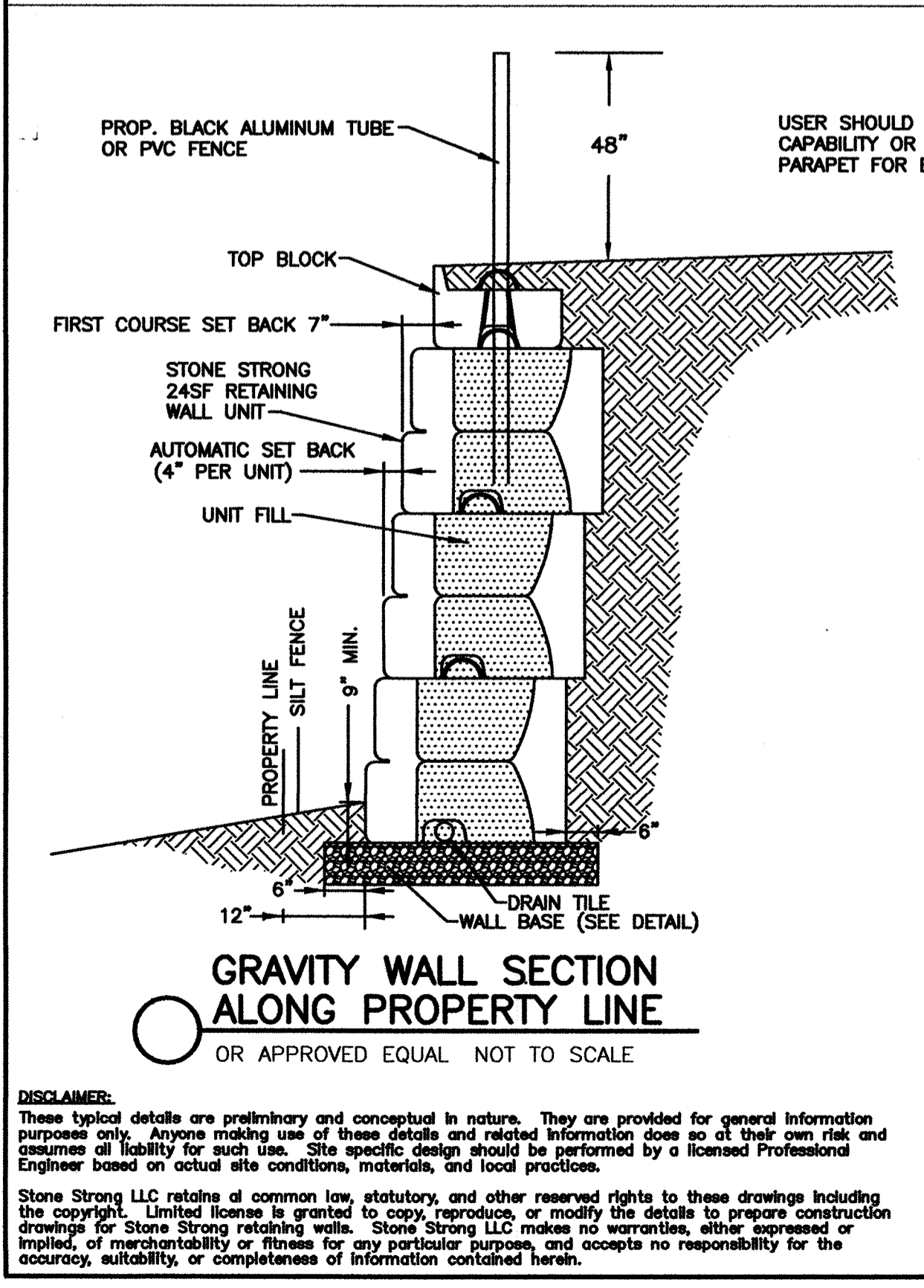
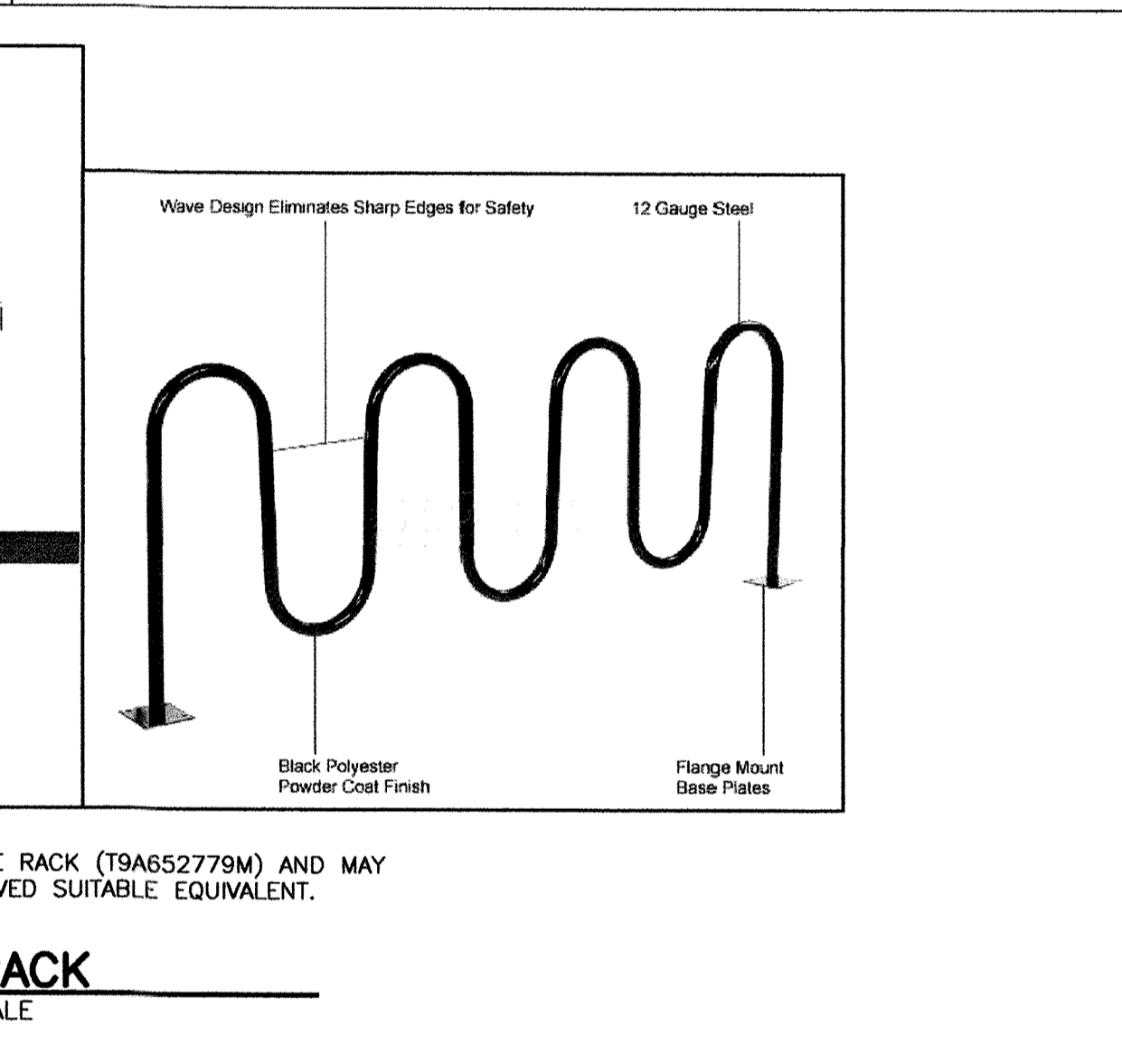
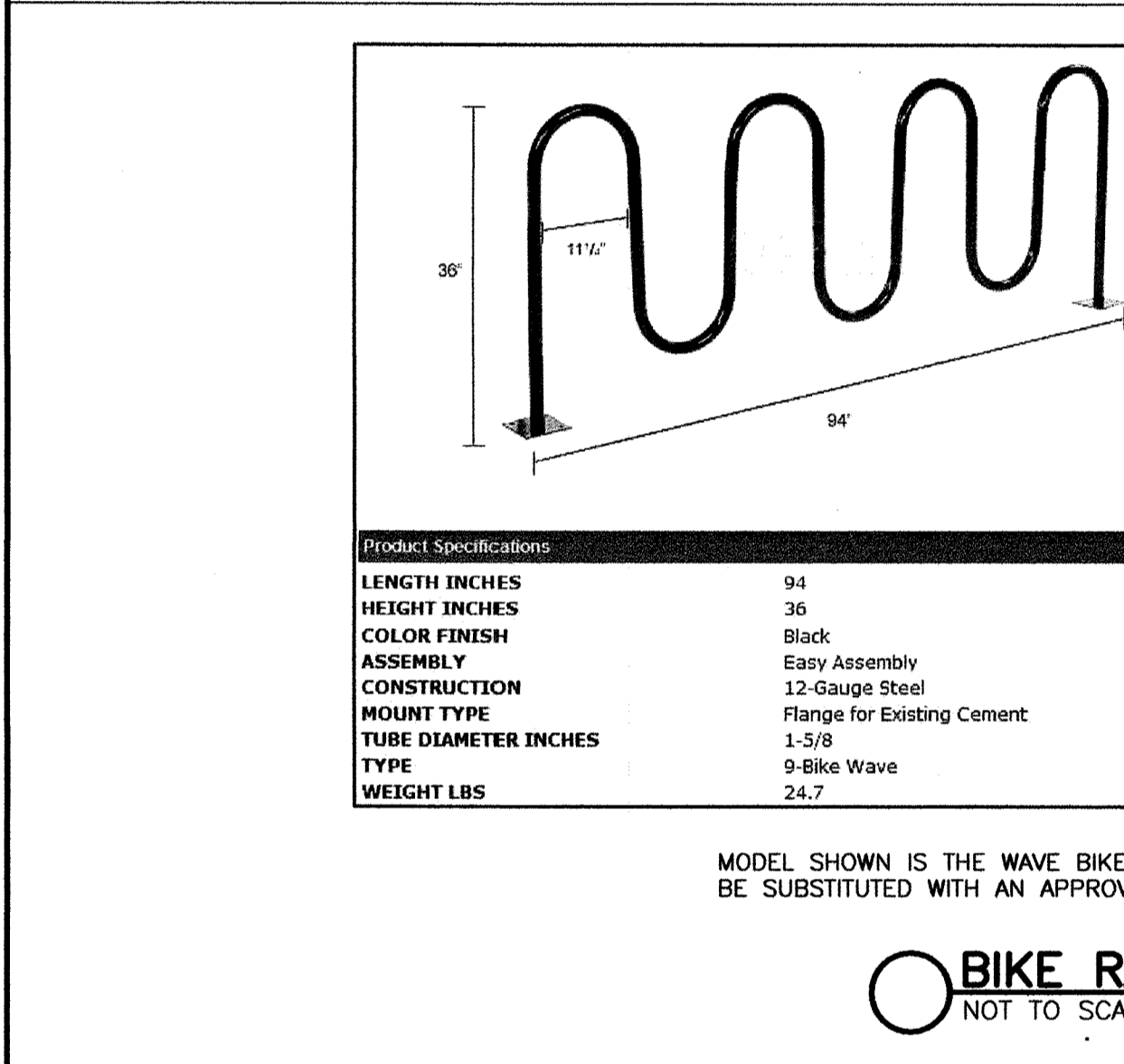
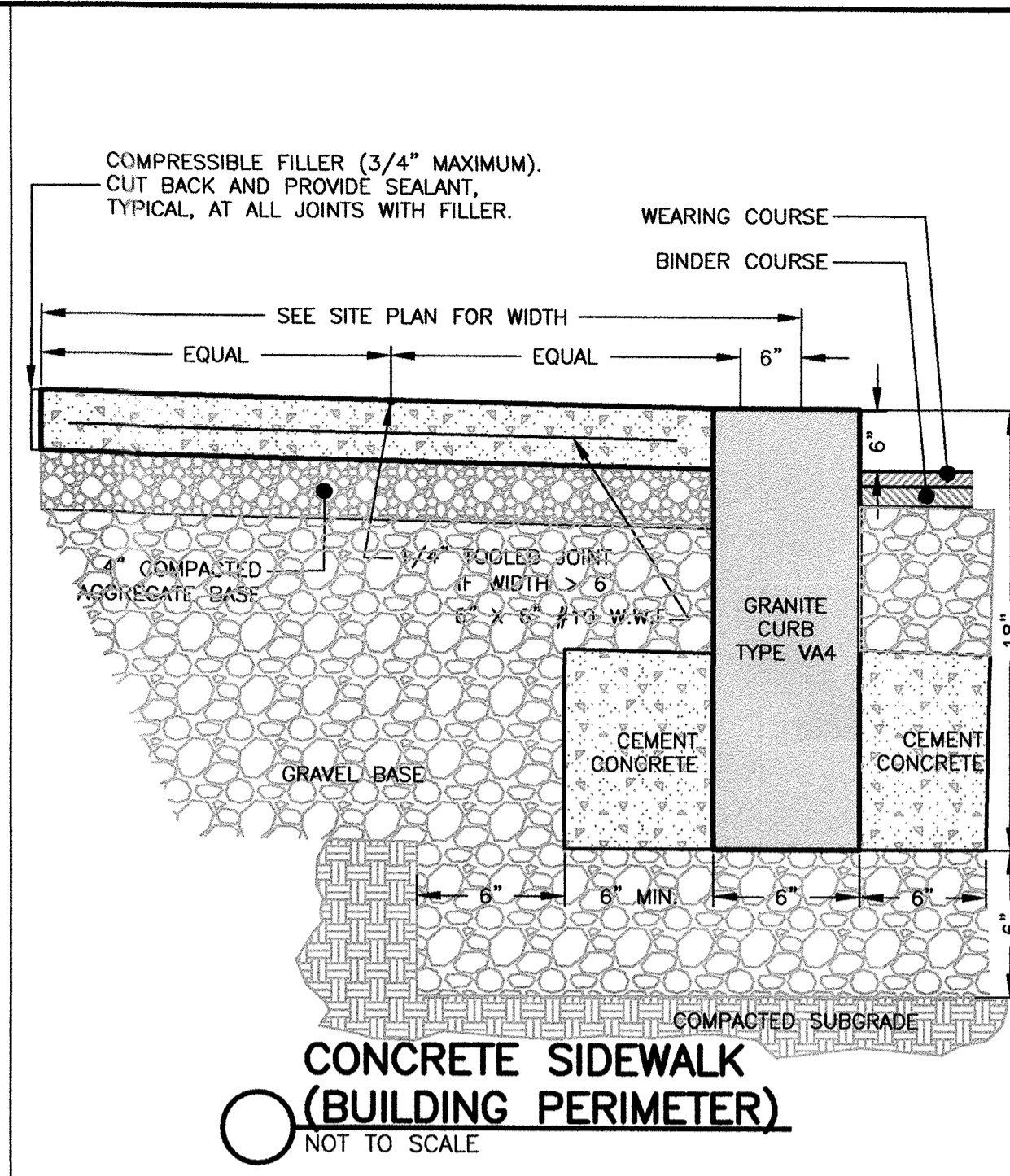
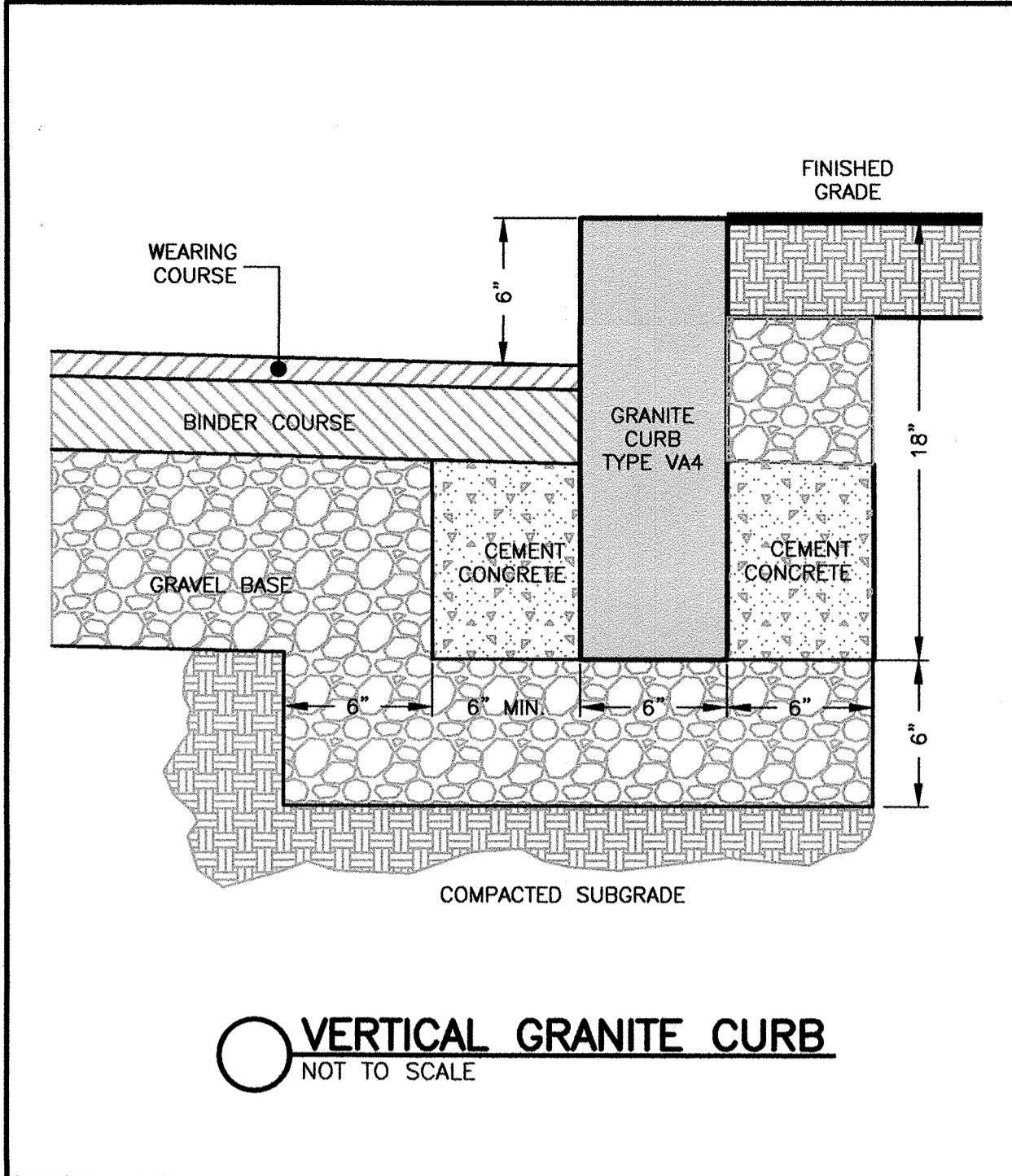
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Project File: WEL-0012
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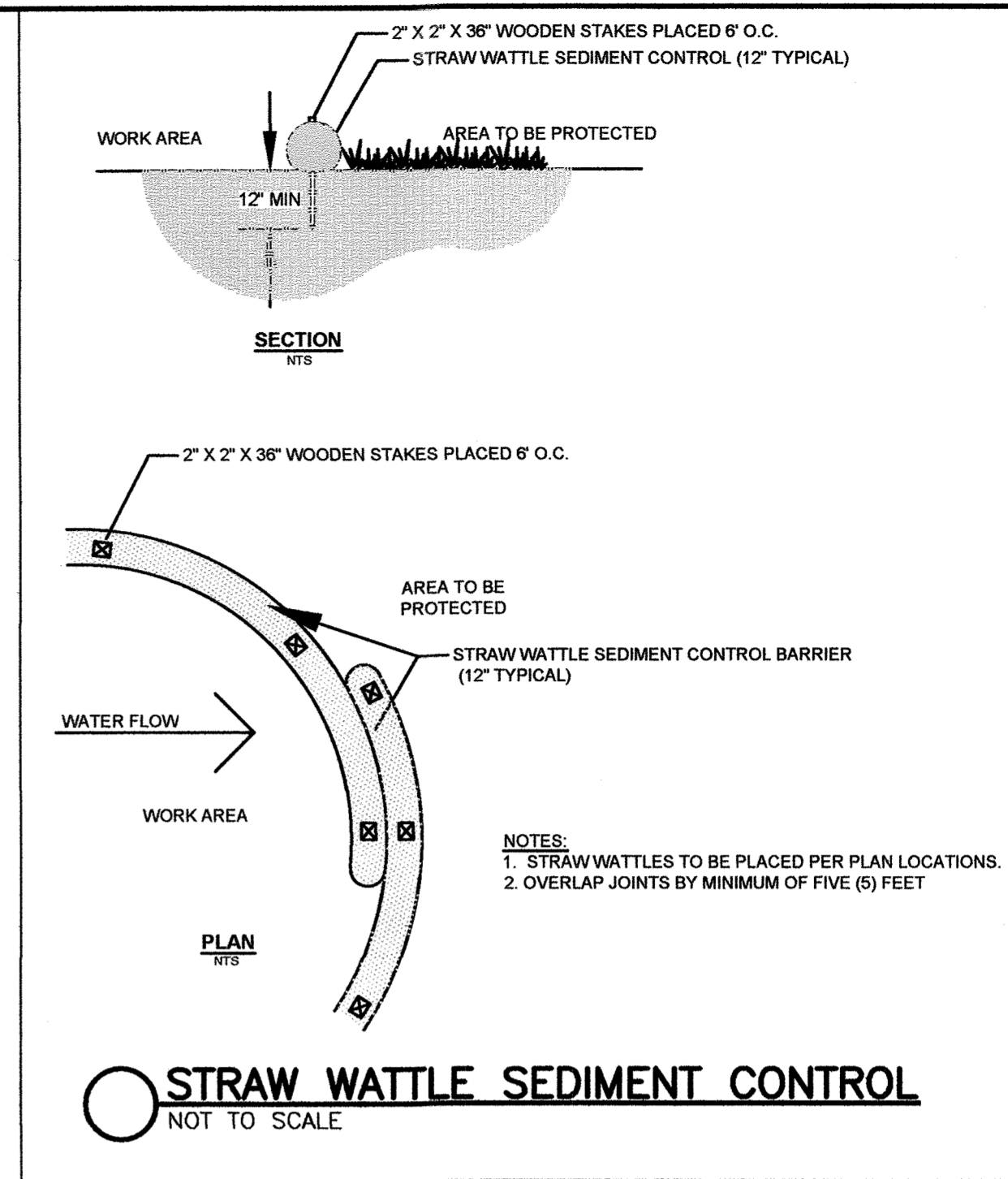
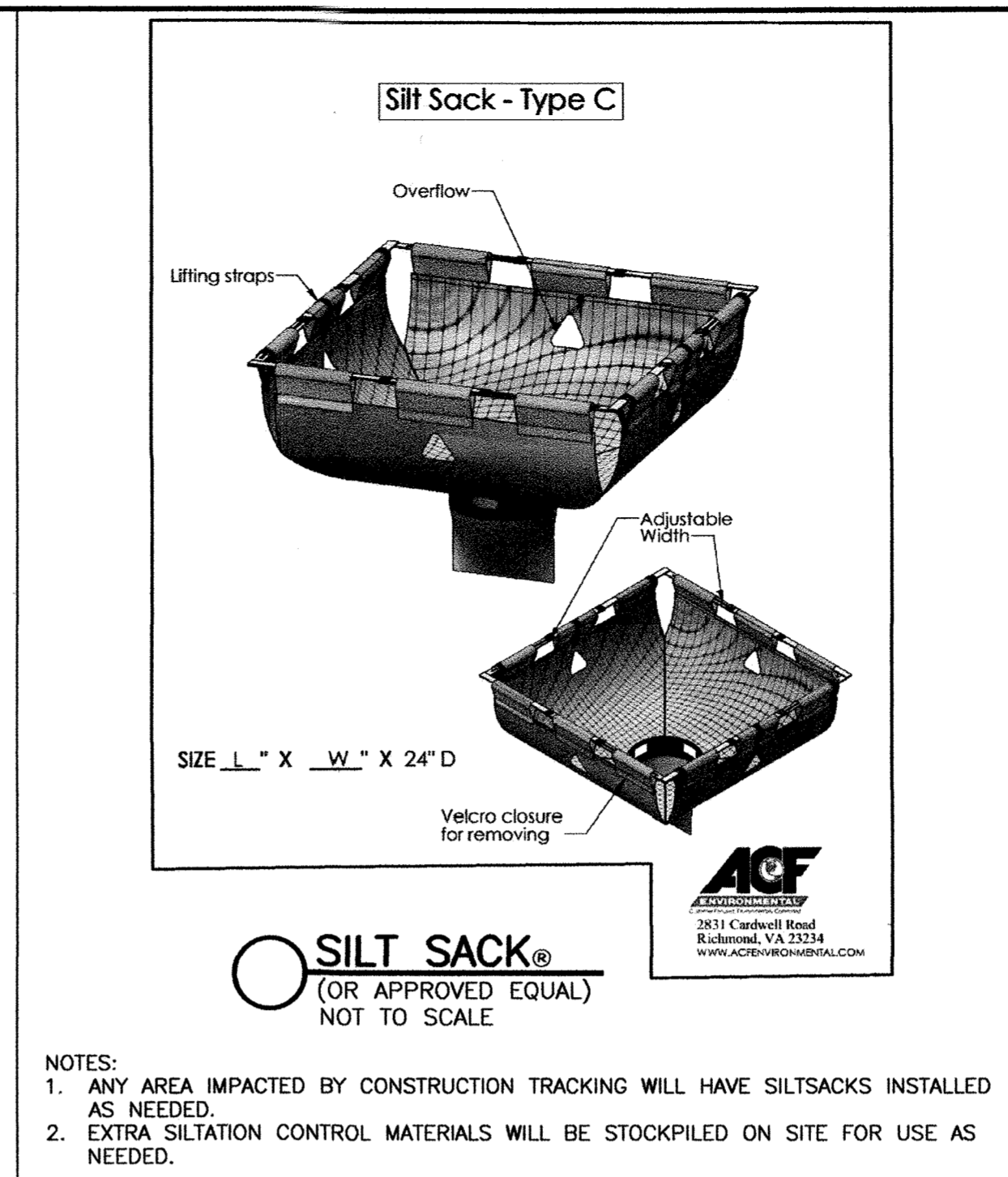
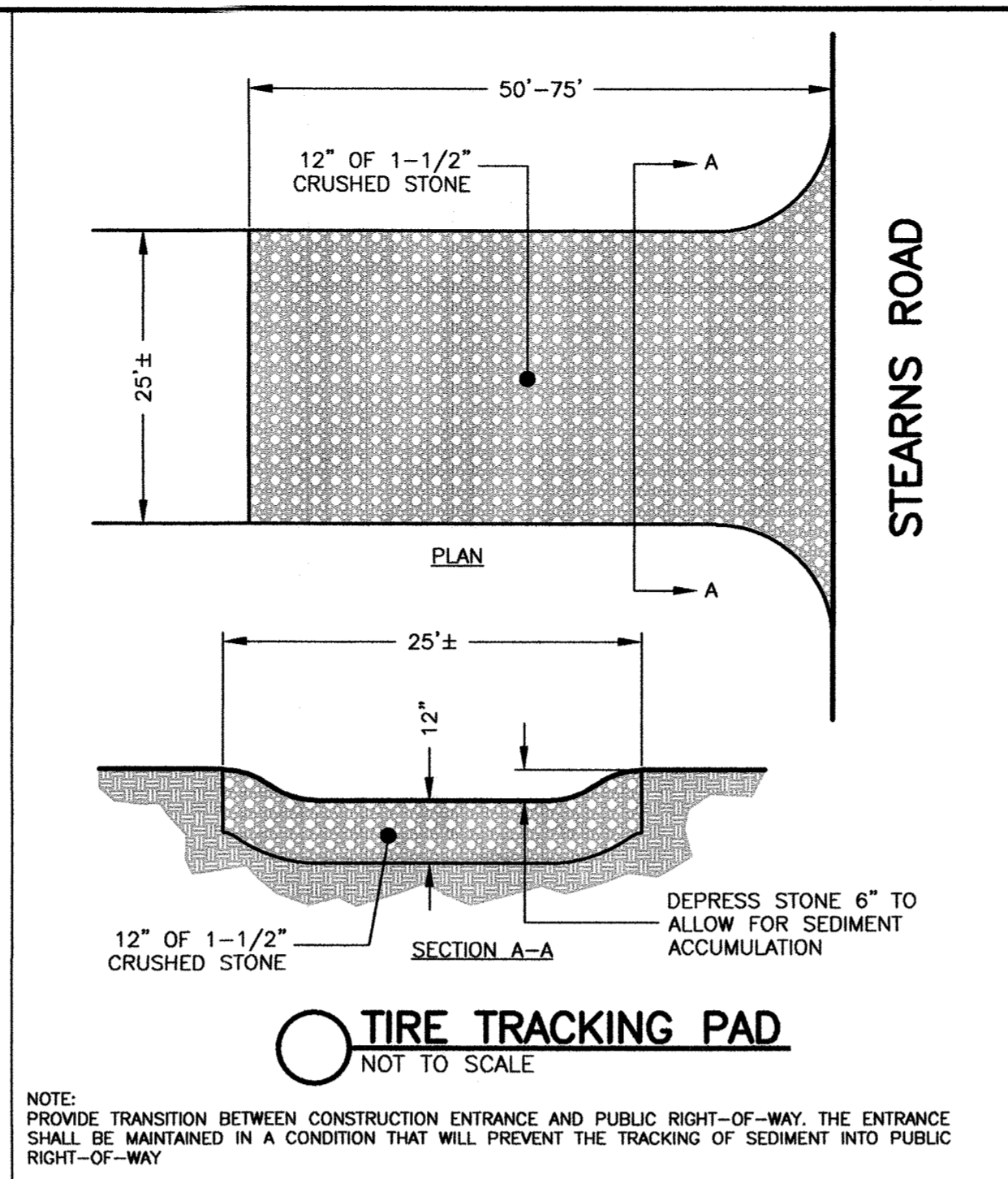
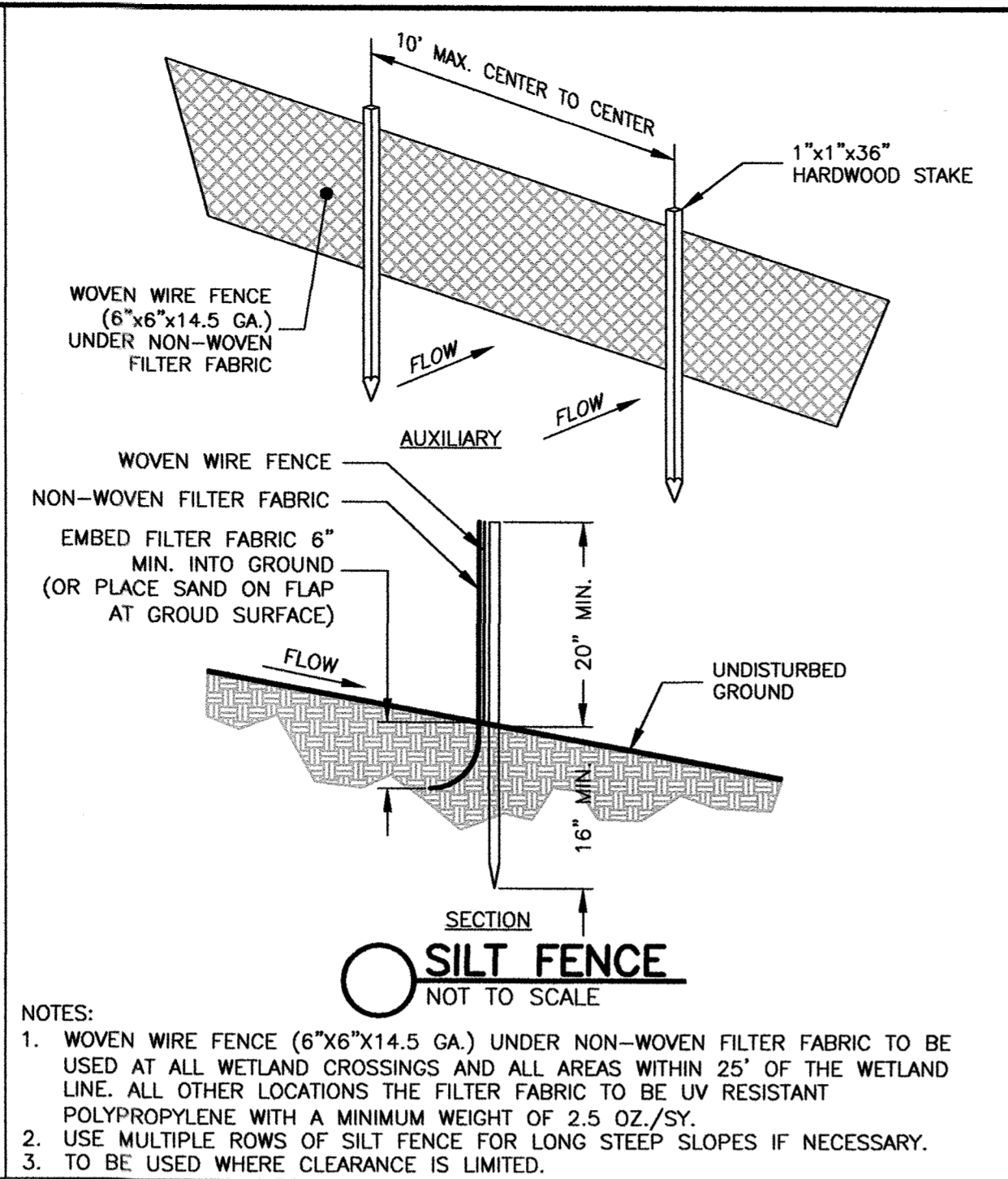
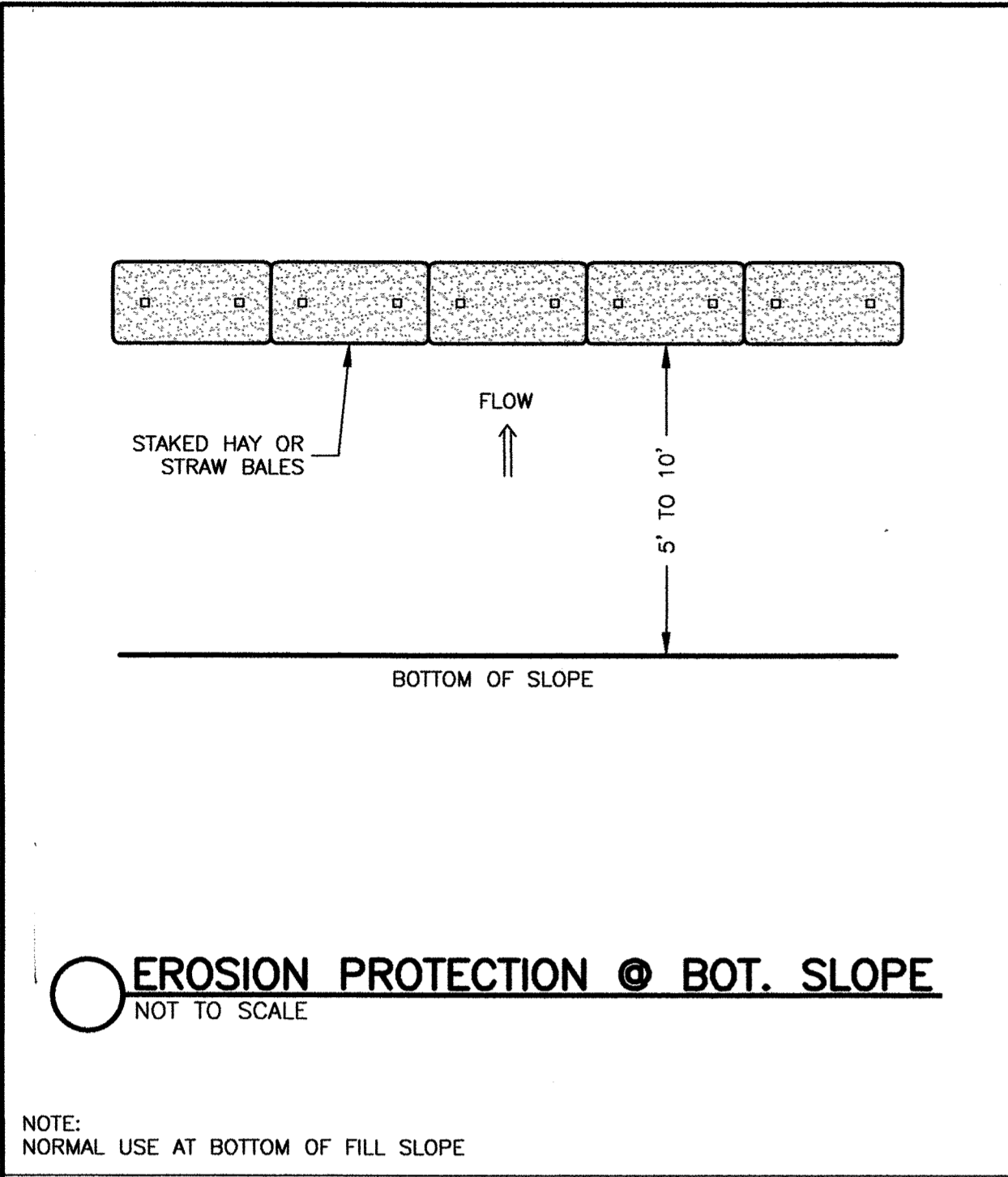
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0' 10' 20' 40'

Date: January 12, 2018

Drawing Title: SITE DETAIL SHEET
#16 STEARNS ROAD
WELLESLEY, MASS.

Drawing No.: C9

SHEET 12 OF 13



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0' 10' 20' 40'

Date: January 12, 2018

EROSION DETAIL SHEET

#16 STEARNS ROAD

WELLESLEY, MASS.

Seal: [Professional Engineer Seal]

Drawing No.: C10

SHEET 13 OF 13

No.	Revision	Date
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VB Comments

Town Comments

Drive Locations

Town Comments

Submittal

No Changes This Sheet

3-7-2019

12-21-2018

12-11-2018

10-19-2018

7-6-2018

2-15-2018