

SITE PLAN

HIGHLAND VILLAGE

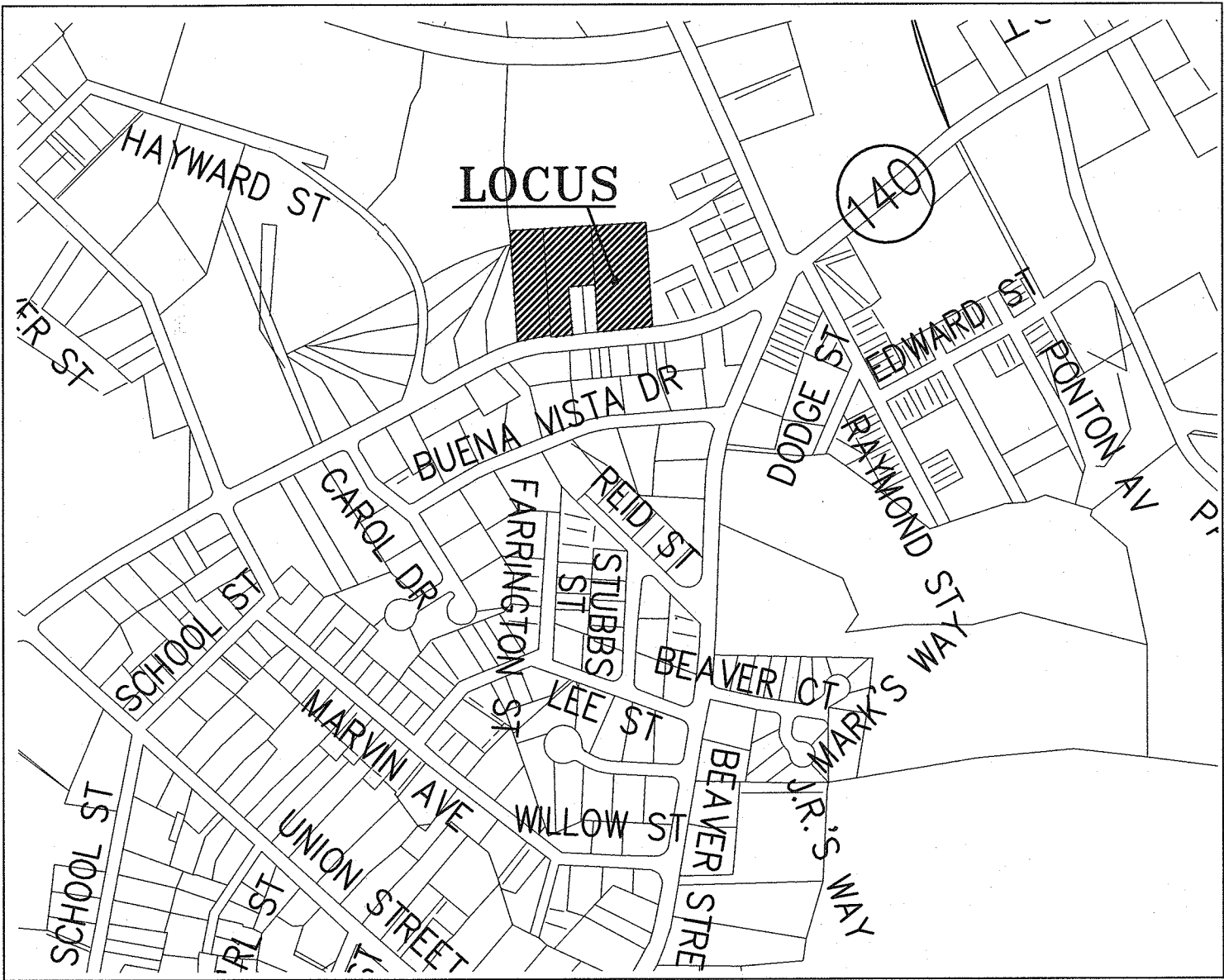
278-300 WEST CENTRAL STREET

FRANKLIN, MASSACHUSETTS

INDEX

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- 11-13 CONSTRUCTION DETAILS

ARCHITECTURAL PLANS



VICINITY MAP
1"=500'

APPLICANT
JOEL D'ERRICO
72 DEERVIEW WAY
FRANKLIN, MA 02038

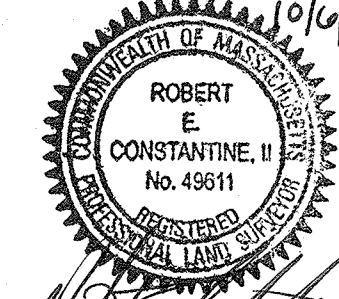
ARCHITECT
MICHAEL J. KONOSKY ASSOCIATES
842 UPPER UNION STREET
FRANKLIN, MA. 02038

LOCUS:

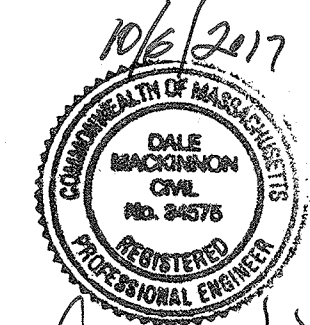
280 WEST CENTRAL STREET
JOEL D'ERRICO
A.M. 278 LOT 32
DEED BK 33822 PG 200

300 WEST CENTRAL STREET
JOEL D'ERRICO
A.M. 278 LOT 35
DEED BK 33822 PG 200

278 WEST CENTRAL STREET
DOUBLE J DEVELOPMENT LLC
A.M. 278 LOT 31
DEED BK. 29771 PG. 94



PROFESSIONAL
LAND SURVEYOR



PROFESSIONAL
ENGINEER

APPLICANT
JOEL D'ERRICO
72 DEERVIEW WAY
FRANKLIN, MA 02038

REVISIONS

DATE	REVISED



**Guerriere
&
Halnon, Inc.**

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Ph. (508) 528-3221 55 WEST CENTRAL STREET
Fx. (508) 528-7921 FRANKLIN, MA 02038
www.guerriereandhalnon.com

SITE PLAN

HIGHLAND VILLAGE

278-300 WEST CENTRAL STREET

FRANKLIN
MASSACHUSETTS

COVER

DATE SEPTEMBER 26, 2017	SCALE AS NOTED
SHEET 1 OF 13	JOB NO. F3988

JOB NO.
F3988

APPROVED DATE:
FRANKLIN PLANNING BOARD

DATE: _____
BEING A MAJORITY

UTILITIES ARE PLOTTED AS A COMPILATION OF RECORD DOCUMENTS (MARKINGS) AND OTHER OBSERVED EVIDENCE TO DEVELOP A VIEW OF THE UNDERGROUND UTILITIES AND SHOULD BE CONSIDERED APPROXIMATE. LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY COMPLETELY AND RELIABLY DEPICTED. ADDITIONAL UTILITIES, NOT EVIDENCED BY RECORD DOCUMENTS OR OBSERVED PHYSICAL EVIDENCE, MAY EXIST. CONTRACTORS (IN ACCORDANCE WITH MASS.G.L. CHAPTER 82 SECTION 40 AS AMENDED) MUST CONTACT ALL UTILITY COMPANIES BEFORE EXCAVATING AND DRILLING AND CALL DIGSAFE AT 1(888)DIG-SAFE(7233).

CONSTRUCTION ON THIS LAND IS SUBJECT TO ANY EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, RESERVATIONS, OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.

GENERAL RESIDENTIAL V

REQUIRED

MIN. LOT AREA	10,000 SF
MIN. LOT FRONTAGE	100 FT
MIN. LOT DEPTH	100 FT
MIN. LOT WIDTH	90 DIA
MAX HEIGHT	40 FT
MAX. STORIES	3
IMPERV. COVERAGE	35%

MIN. YARD SETBACKS

FRONT	20 FT
SIDE	15 FT
REAR	20 FT

NOTES

- THIS SITE IS NOT IN A FLOOD HAZARD ZONE.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES IN THE FIELD. ANY DISCREPANCY WITH THE PLANS SHOULD BE REPORTED TO THE DESIGN ENGINEER UPON DISCOVERY.
- CONTRACTOR & ARCHITECT SHALL VERIFY SITE UTILITIES PRIOR TO DESIGN & CONSTRUCTION.
- REFER TO FRANKLIN ASSESSORS MAP 278 LOTS 31,32 AND 35.
- THERE ARE NO TREES DESIGNATED AS "PUBLIC SHADED TREES" ON THIS SITE TO BE REMOVED FOR THE SITE PLAN.
- THIS SITE IS NOT IN A WATER RESOURCE DISTRICT.

TESTING INFORMATION

TESTING DATE: MARCH 8, 2017 SOIL EVALUATOR: BRUCE WILSON, JR.

266.2	TP 1	SANDY LOAM 10YR3/3	0"-18"
264.7		SANDY LOAM 10YR5/6	18"-44"
262.54		SAND 2% GRAVEL 10% COBBLES LG. STONES 2.5Y5/4	44"-132"
255.2		LOAMY SAND NO GRAVEL	132"-180"
251.2		NO GW NO MOTTLES	
274.3	TP 3	SANDY LOAM 10YR3/3	0"-8"
273.64		SANDY LOAM	8"-24"
272.3		SAND 10-15% GRAVEL 2% COBBLES MED. TO COARSE 2.5Y5/4	24"-192"
258.3		NO GW NO MOTTLES	
273.6	TP 5	SANDY LOAM 10YR3/3	0"-16"
272.27		SANDY LOAM 10YR5/6	16"-32"
270.94		SAND MED. GRAIN 2.5Y5/4	32"-84"
266.6		SAND 5-10% GRAVEL	84"-102"
265.1		SAND 2% GRAVEL	102"-192"
257.6			
278.9	TP 2	SANDY LOAM 10YR3/3	0"-12"
277.9		SANDY LOAM 10YR5/6	12"-18"
277.4		SAND MED. TO COARSE 10% GRAVEL 2% COBBLES 2.5Y5/4	18"-216"
260.9		LOAMY SAND 2% GRAVEL	216"-240"
258.9		NO GW NO MOTTLES	
263.0	TP 4	SANDY LOAM 10YR3/3	0"-12"
262.0		SANDY LOAM 10YR5/6	12"-44"
259.67		SAND 10% GRAVEL 2% COBBLES 2.5Y5/4	44"-96"
255.0		SAND FINE	96"-142"
251.17		SAND-MED COARSE 2.5Y5/4	142"-192"
247.0		NO GW NO MOTTLES	

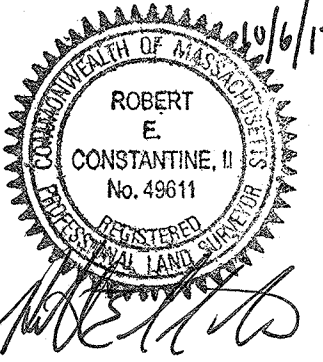


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FRANKLIN PLANNING BOARD

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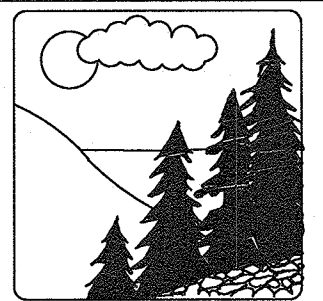
PROFESSIONAL
LAND SURVEYOR

PROFESSIONAL
ENGINEER

APPLICANT
JOEL D'ERRICO
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FRANKLIN, MA 02038

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DATE REVISED



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SITE PLAN

HIGHLAND VILLAGE
278-300 WEST CENTRAL STREET

FRANKLIN
MASSACHUSETTS

EXISTING CONDITIONS

DATE
SEPTEMBER 26, 2017

SCALE
1"=30'

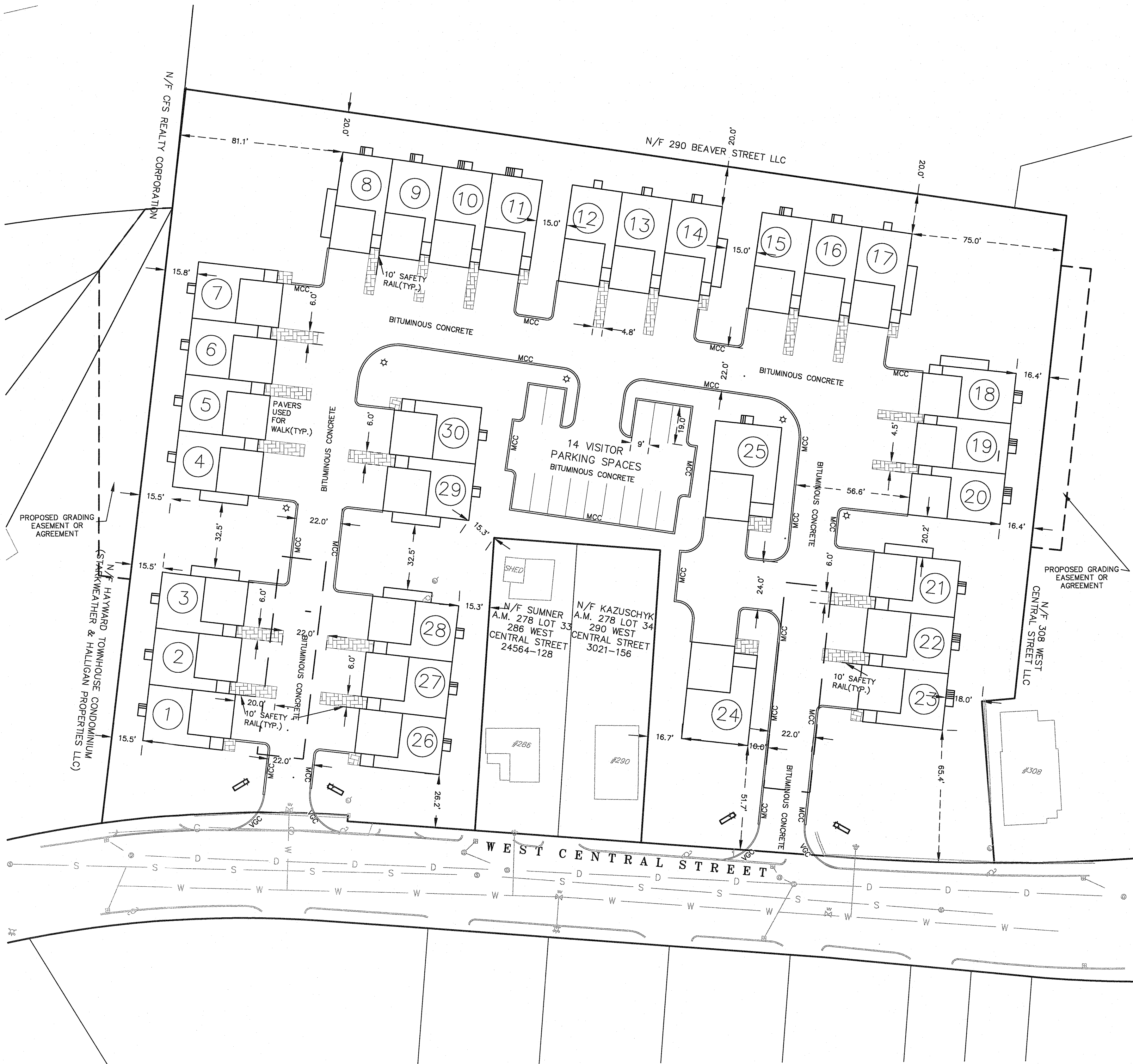
SHEET
2 OF 13

JOB NO.
F3988

JOB NO.
F3988

LEGEND

A.M.	ASSESSOR'S MAP
N/F	NOW OR FORMERLY
UP#	UTILITY POLE
⊙	EXISTING SEWER MANHOLE
⊗	EXISTING WATER VALVE
⊕	PROP FIRE HYDRANT
⊗	EXISTING UTILITY POLE
⊕	EXISTING CATCHBASIN
⊙	PROPOSED DRAIN MANHOLE
~~~~~	EXISTING TREELINE
000.0x	EXISTING SPOT ELEVATION
---000---	EXISTING CONTOUR
---	EXISTING SEWERLINE
---	EXISTING WATERLINE
---	EXISTING GASLINE
---	EXISTING OVERHEAD WIRE
---	EXISTING CONCRETE
---	HANDICAP SPACE
##	EXISTING NUMBER OF SPACES
EP	EDGE OF PAVEMENT
GC	GRANITE CURB
ER	EXISTING RAMP
P.R.	PROPOSED RAMP
◇	PARKING RECOMMENDED BY DPW



GENERAL RESIDENTIAL V

	REQUIRED	PROPOSED
MIN. LOT AREA	10,000 SF	137,824 SF
MIN. LOT FRONTAGE	100 FT	361.02 FT
MIN. LOT DEPTH	100 FT	240 FT
MIN. LOT WIDTH	90 DIA	177 FT
MAX HEIGHT	40 FT	30 FT
MAX. STORIES	3	3
IMPERV. COVERAGE	35%	54.8% (75,498±SF)

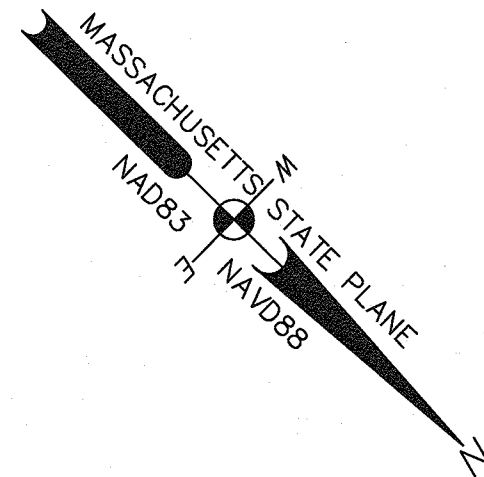
MIN. YARD SETBACKS

FRONT	20 FT	26.2 FT
SIDE	15 FT	15.3 FT
REAR	20 FT	20.0 FT

15 FT. MINIMUM DISTANCE BETWEEN BUILDINGS

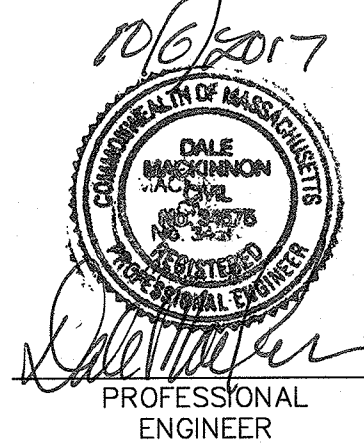
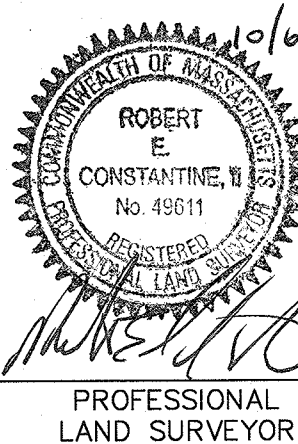
UNIT DIMENSIONS

UNITS 1-7, 26-30, 21-23	28' X 43'
UNITS 8-17	25' X 48'
UNITS 18-20	25' X 46'
UNITS 24,25	33' X 48'



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FRANKLIN PLANNING BOARD

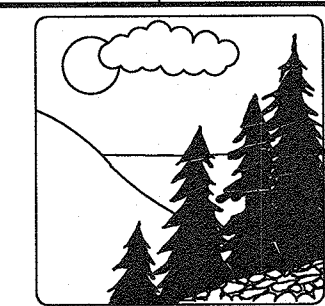
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SITE PLAN FOR  
HIGHLAND VILLAGE  
278-300 WEST CENTRAL  
STREET  
IN  
FRANKLIN  
MASSACHUSETTS

SITE LAYOUT

DATE SEPTEMBER 26, 2017	SCALE 1"=30'
SHEET 3 OF 13	JOB NO. F3988



DIG SAFE NOTE:

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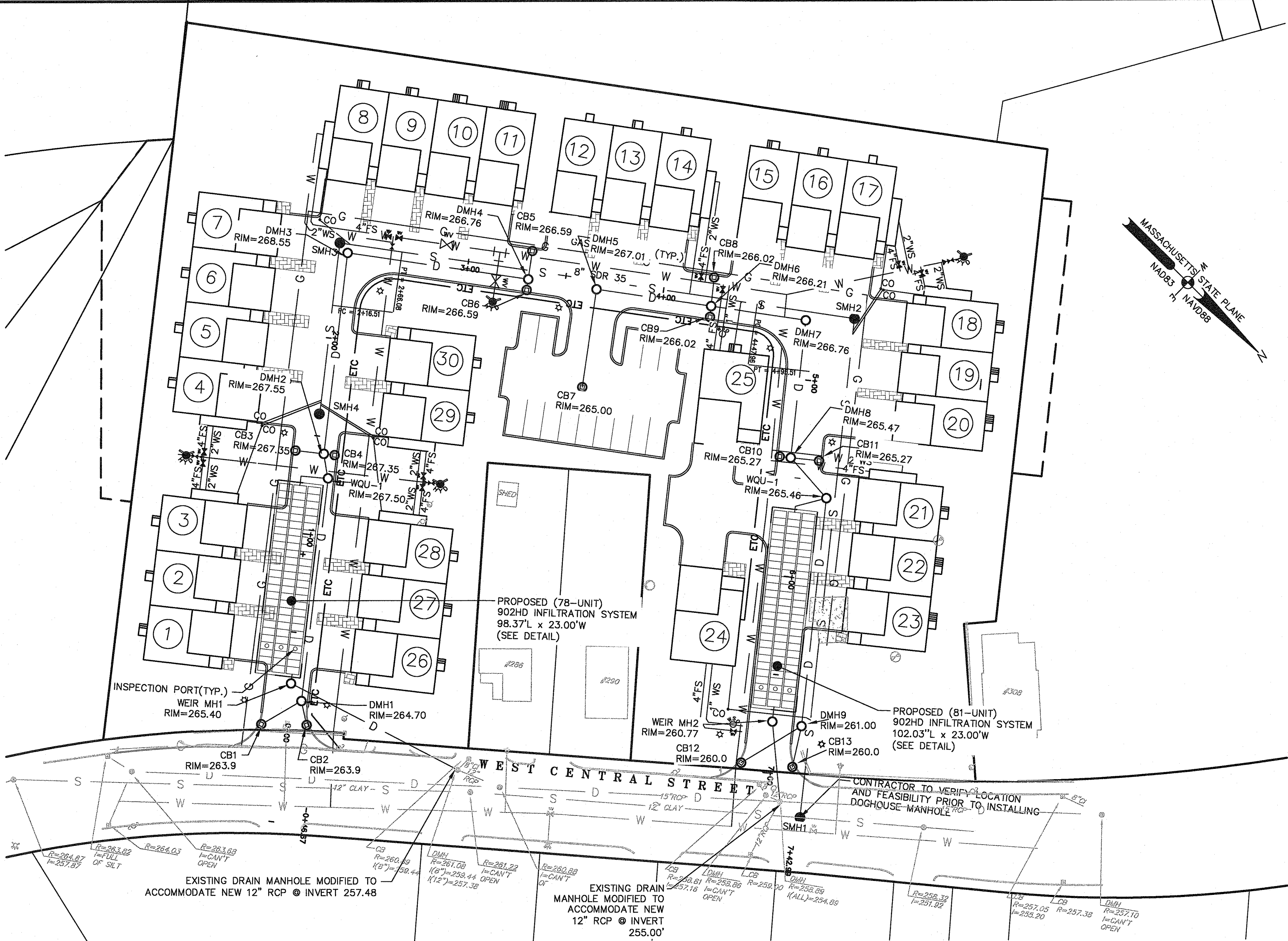
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JOB NO.  
F3988



SCHEDULE OF SEWER SERVICES			
UNIT #	8" INV IN MAIN	LENGTH OF PIPE TYPICAL SERVICE SLOPE= 2% MIN.	HSE. INVERT
# 1	261.40	11.4'	261.50
# 2	261.27	11.4'	261.50
# 3	261.14	11.4'	261.50
# 4	259.12	32.7'	261.50
# 5	258.88	32.7'	259.75
# 6	259.64	32.7'	259.50
# 7	258.41	32.7'	259.25
# 8	258.17	45.6'	259.50
# 9	258.02	45.6'	259.25
# 10	257.76	45.6'	259.00
# 11	257.55	45.6'	258.75
# 12	257.13	45.6'	258.25
# 13	256.87	45.6'	258.00
# 14	256.61	45.6'	257.75
# 15	256.15	45.6'	257.50
# 16	255.88	45.6'	257.25
# 17	255.69	45.6'	257.00
# 18	255.44	26.8'	256.75
# 19	255.25	26.8'	256.50
# 20	255.02	26.8'	256.25
# 21	254.55	12.3'	255.25
# 22	254.21	12.3'	255.00
# 23	253.97	12.3'	254.75
# 24	260.35	53.5'	262.00
# 25	260.39	12.1'	261.00
# 26	260.91	21.5'	261.50
# 27	260.24	21.5'	261.50
# 28	259.97	21.5'	261.50
# 29	259.12	35.1'	259.50
# 30	258.88	32.7'	259.75

- ALL SEWER PIPES LESS THAN 5' COVER SHALL BE INSULATED



## LEGEND

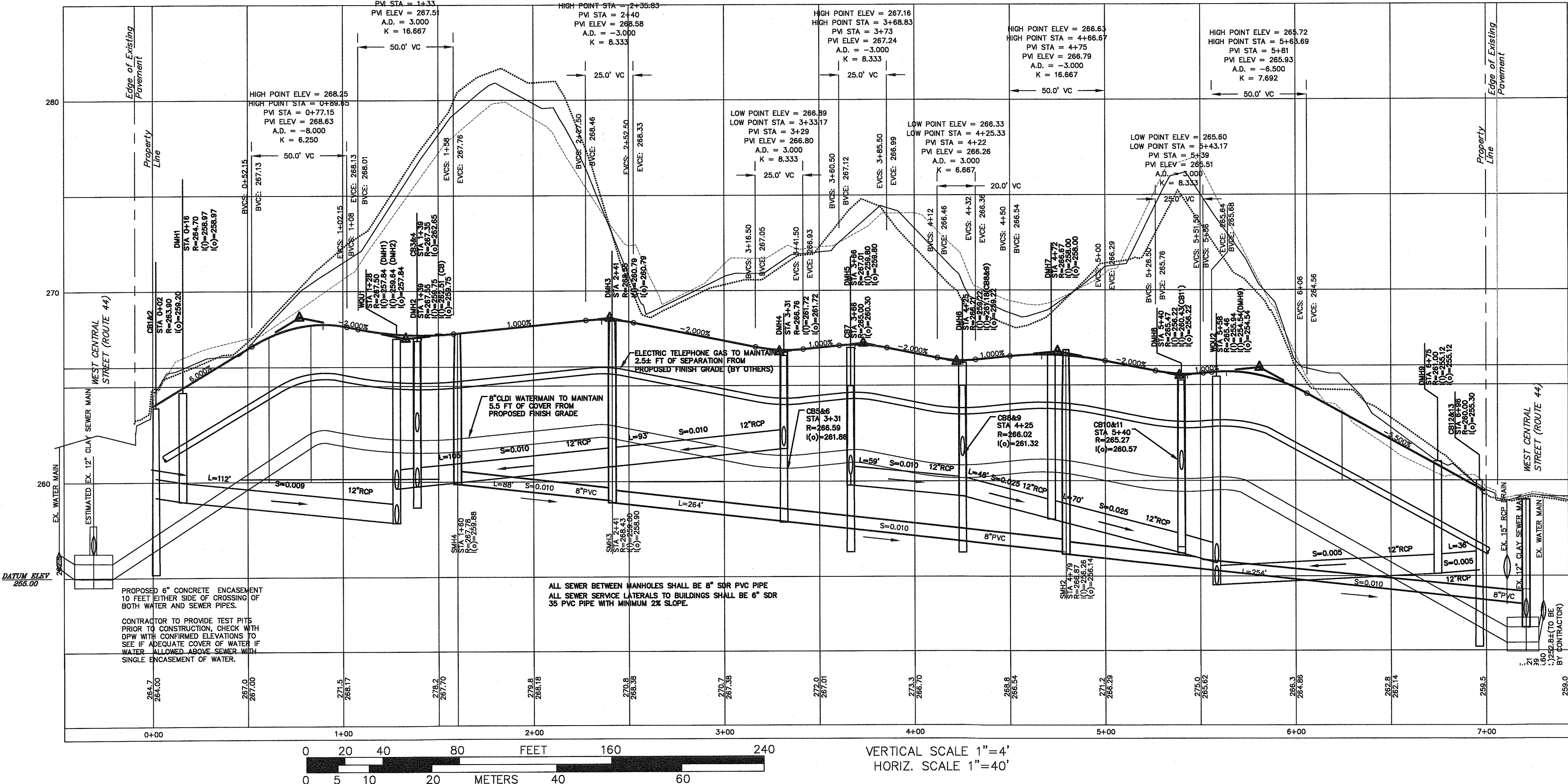
A.M.	ASSESSOR'S MAP
N/F	NOW OR FORMERLY
UP#	UTILITY POLE
⊙	EXISTING SEWER MANHOLE
⊙	EXISTING WATER VALVE
⊙	PROP FIRE HYDRANT
⊙	EXISTING UTILITY POLE
⊙	EXISTING CATCHBASIN
⊙	PROPOSED DRAIN MANHOLE
⊙	EXISTING TREELINE
000.0x	EXISTING SPOT ELEVATION
—000—	EXISTING CONTOUR
—S—	EXISTING SEWERLINE
—W—	EXISTING WATERLINE
—G—	EXISTING GASLINE
—OHV—	EXISTING OVERHEAD WIRE
⊙	EXISTING CONCRETE
♿	HANDICAP SPACE
##	EXISTING NUMBER OF SPACES
EP	EDGE OF PAVEMENT
GC	GRANITE CURB
ER	EXISTING RAMP
P.R.	PROPOSED RAMP
◇	PARKING RECOMMENDED BY DPW



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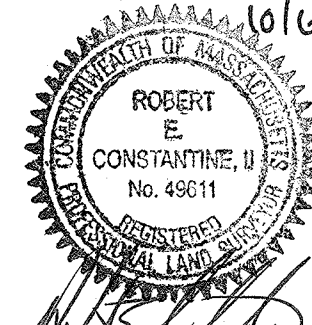
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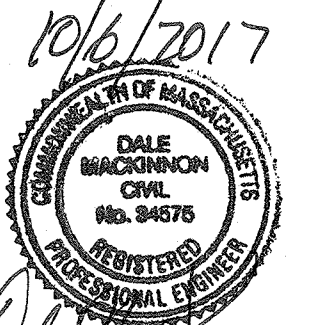


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FRANKLIN PLANNING BOARD

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BEING A MAJORITY



PROFESSIONAL  
LAND SURVEYOR

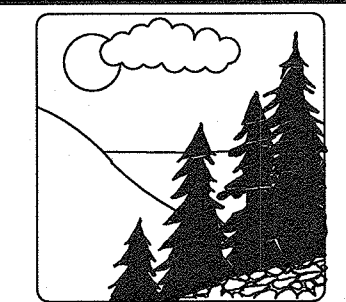


PROFESSIONAL  
ENGINEER

APPLICANT  
JOEL D'ERRICO  
72 DEERVIEW WAY  
FRANKLIN, MA 02038

## REVISIONS

DATE	REVISED



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SITE PLAN FOR  
HIGHLAND VILLAGE  
278-300 WEST CENTRAL  
STREET  
IN  
FRANKLIN  
MASSACHUSETTS

## PROFILE

DATE  
SEPTEMBER 26, 2017

SHEET  
4 OF 13

SCALE  
1"=40'

JOB NO.  
F3988

JOB NO.  
F3988



LEGEND

A.M.	ASSESSOR'S MAP
N/F	NOW OR FORMERLY
UP#	UTILITY POLE
⊙	EXISTING SEWER MANHOLE
⊗	EXISTING WATER VALVE
⊕	PROP FIRE HYDRANT
⊖	EXISTING UTILITY POLE
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EP	EDGE OF PAVEMENT
GC	GRANITE CURB
ER	EXISTING RAMP
P.R.	PROPOSED RAMP
◇	PARKING RECOMMENDED BY DPW

GENERAL EROSION CONTROL
AND DRAINAGE CONSTRUCTION PHASING

1. INSTALL EROSION CONTROL DEVICES ALONG PERIMETER OF SITE.
2. INSTALL CONSTRUCTION ENTRANCE.
3. SITE TO BE CLEARED AND GRUBBED.
4. INSTALL RETAINING WALLS.
5. INSTALLED SLOPE MATTING TO STABILIZE SLOPES (IF APPLICABLE)
6. INSTALL CONSTRUCTION ENTRANCE.
7. INSTALL TEMPORARY SEDIMENT BASIN.
8. INSTALL TEMPORARY DIVERSION SWALES AND DIRECT THEM TO THE SEDIMENT BASIN.
INSTALL CHECK DAMS EVERY 100 FT.
9. INSTALL DRAINAGE MANHOLES AND CATCHBASINS AND ENSURE TEMPORARY COVER IS IN PLACE.
10. INSTALL SUBSURFACE INFILTRATION SYSTEMS AND WATER QUALITY UNIT.
11. INSTALL ALL DRAINAGE RISERS, GRATES AND COVERS
12. REMOVE CONSTRUCTION ENTRANCES.
13. INSTALL ROAD UP TO BINDER FINISH GRADE.
14. REMOVED TEMPORARY DIVERSION SWALES AND SEDIMENTATION BASINS AFTER SITE HAS BEEN STABILIZED AND PREPARED FROM BUILDING FOUNDATION INSTALLATION.
15. REMOVE PERIMETER EROSION CONTROL DEVICES ONCE SITE CONSTRUCTION IS COMPLETE.

NOTES:

1. SPECIAL CONSIDERATION FOR INLET CONTROLS FOR EROSION COLLECTION BEFORE ENTERING DRAINAGE SYSTEM.
2. INSTALL SILT SACKS.
3. BARRIER AROUND CATCH BASIN, MULCH SOCK OR EQUAL.
4. INSTALL FILTER FABRIC ON ALL DRAIN MANHOLE OUTLETS DISCHARGING TO INFILTRATION SYSTEM.
5. INSPECTIONS BEFORE AND AFTER STORM EVENTS ARE REQUIRED TO INSURE ADEQUACY OF EROSION CONTROL MEASURES.
6. ALL EXISTING STRUCTURES TO BE RAZED.
7. STOCK PILE AREA TO BE CONTAINED USING EROSION CONTROL DEVICES
8. DIRT BAG SHALL BE USED TO PERIODICALLY CLEAN THE TEMPORARY SEDIMENTATION BASINS DURING CONSTRUCTION.



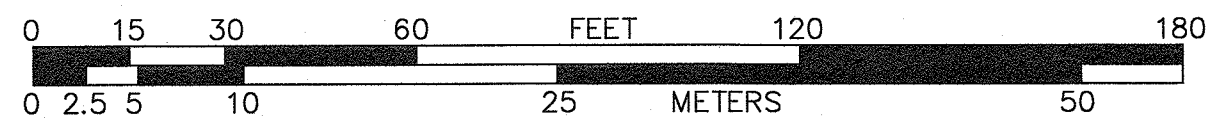
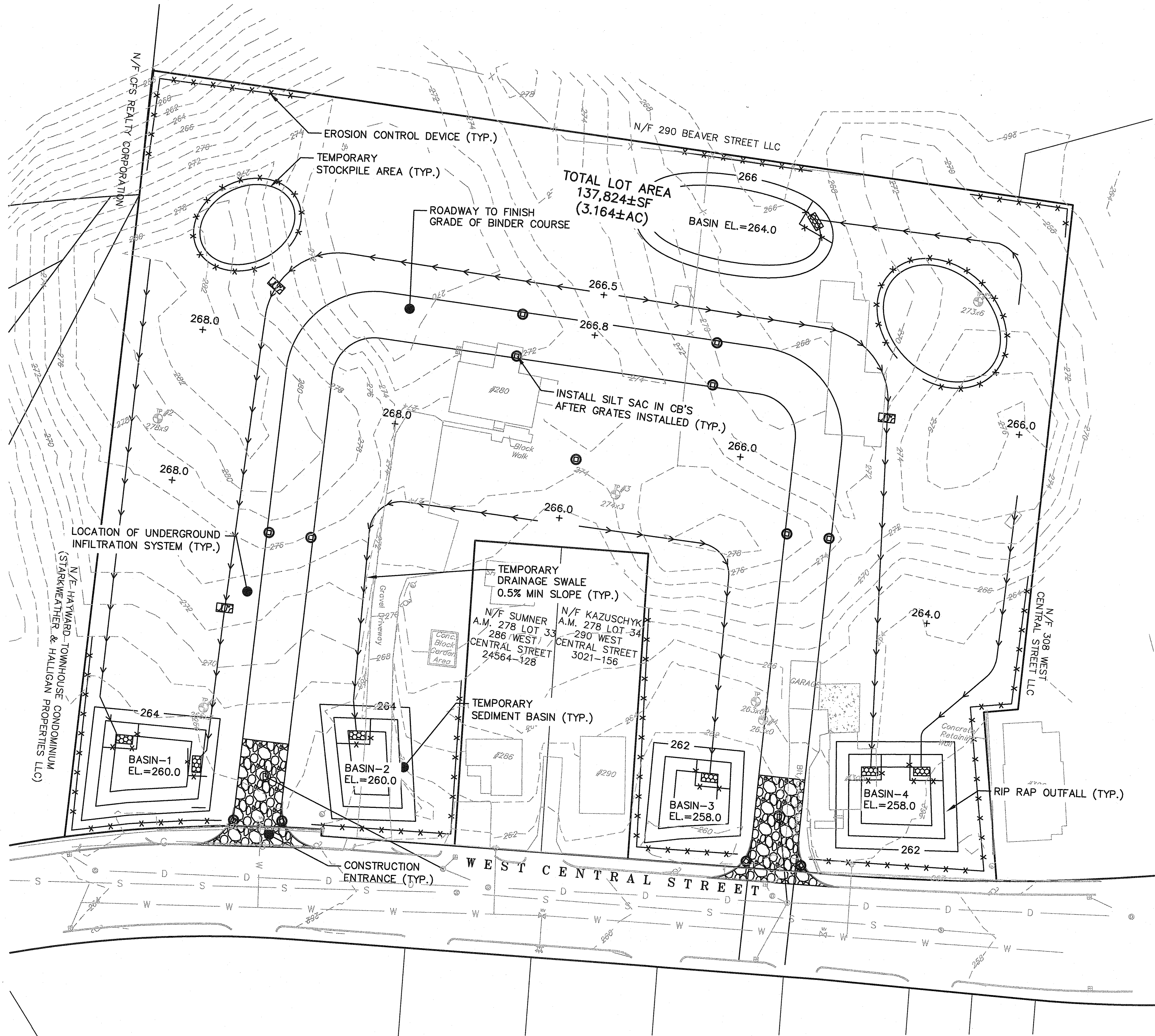
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	TRIBUTARY AREA (AC.)	REQUIRED VOLUME (CF)	PROVIDED VOLUME (CF)	WATER LEVEL 10-YR. STORM (EL.)
SEDIMENT TRAP-1	0.77	1,386	4,206	263.46
SEDIMENT TRAP-2	0.60	1,072	4,448	222.45
SEDIMENT TRAP-3	0.48	860	4,237	223.12
SEDIMENT TRAP-4	0.80	1,448	4,237	223.12
SEDIMENT TRAP-5	0.41	738.5	3,690	265.72

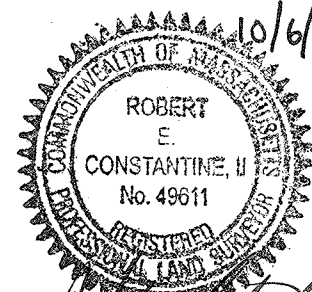
NOTE: CALCULATIONS FOR MINIMUM SEDIMENT BASIN/TRAP VOLUME BASED ON MASSACHUSETTS EROSION CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS REPRINTED MAY 2003



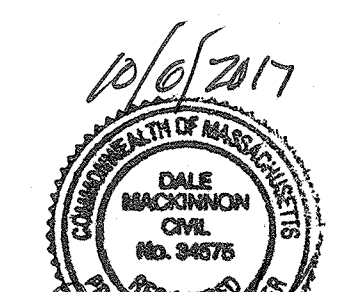
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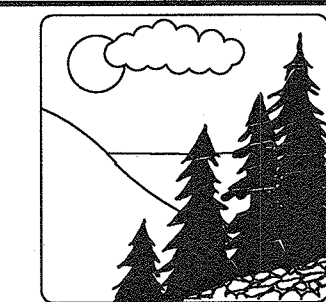


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ENGINEER

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DATE REVISED



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





SITE PLAN FOR
HIGHLAND VILLAGE
278-300 WEST CENTRAL
STREET
IN
FRANKLIN
MASSACHUSETTS

EROSION & DEMOLITION
PLAN

DATE SEPTEMBER 26, 2017 SCALE 1"=30'

SHEET 5 OF 13

JOB NO. F3988

A.M.	ASSESSOR'S MAP
N/F	NOW OR FORMERLY
UP#	UTILITY POLE
	EXISTING SEWER MANHOLE
	EXISTING WATER VALVE
	PROP FIRE HYDRANT
	EXISTING UTILITY POLE
	EXISTING CATCHBASIN
	PROPOSED DRAIN MANHOLE
	EXISTING TREELINE
000.0x	EXISTING SPOT ELEVATION
—000—	EXISTING CONTOUR
—S—	EXISTING SEWERLINE
—W—	EXISTING WATERLINE
—G—	EXISTING GASLINE
—OHW—	EXISTING OVERHEAD WIRE
	EXISTING CONCRETE
	HANDICAP SPACE
(##)	EXISTING NUMBER OF SPACES
EP	EDGE OF PAVEMENT
GC	GRANITE CURB
ER	EXISTING RAMP
P.R.	PROPOSED RAMP
	PARKING RECOMMENDED BY DPW

Drainage Area						Sum of C/A's	Time of Concentration (min)	Invert Elevation										Rim Elev.		Destination				
								Horizontal Distance						Vertical Rise/Fall										
								(ft)	(m)	(in/hr)	(cm/hr)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)		(ft)	(ft)	Elev.	Elev.
PR-1A-CB-1	CB-1	DH-1	0.05	6.00	5.80	0.29	12	0.010	0.013	3.56	4.54	0.37	23.5	0.09	0.24	259.20	258.97	263.90	284.70	AREA-1 920HD RECHARGER INFILTRATION SYSTEM				
PR-1A-CB-2	CB-2	DH-1	0.04	6.00	5.80	0.25	12	0.018	0.013	4.63	6.15	0.32	12.5	0.03	0.23	259.20	258.97	263.90	284.70					
	DH-1	WQJ-1	0.09	6.09	5.80	0.54	12	0.013	0.013	3.56	4.54	0.60	112.5	0.41	1.13	258.67	257.84	264.70	287.50					
PR-1A-CB-3	CB-3	DH-2	0.10	6.00	5.80	0.57	12	0.010	0.013	3.56	4.54	0.73	14.5	0.05	0.14	262.65	262.51	267.35	287.55					
PR-1A-CB-4	CB-4	DH-2	0.09	6.00	5.80	0.52	12	0.025	0.013	3.56	7.23	0.67	5.5	0.01	0.14	262.65	262.51	267.35	287.55					
PR-1A-CB-5	CB-5	DH-4	0.09	6.00	5.80	0.51	12	0.012	0.013	3.90	4.97	0.64	14.5	0.05	0.17	261.89	261.72	266.59	286.76					
PR-1A-CB-6	CB-6	DH-4	0.02	6.00	5.80	0.14	12	0.031	0.013	6.27	7.99	0.17	5.5	0.01	0.17	261.89	261.72	266.59	286.76					
	DH-4	DH-3	0.11	6.05	5.80	0.64	12	0.010	0.013	3.56	4.54	0.82	92.5	0.34	0.93	261.72	260.79	266.78	286.75					
	DH-3	DH-3	0.11	6.39	5.80	0.64	12	0.010	0.013	3.56	4.54	0.82	104.5	0.38	1.05	260.79	259.75	266.55	287.55					
	DH-2	WQJ-1	0.30	6.77	5.69	1.70	12	0.010	0.013	3.56	4.54	2.17	110	0.04	0.41	259.75	259.64	267.55	287.50					
	WQJ-1	DOWNHILL	0.39	7.19	5.59	2.19	12	0.010	0.010	4.63	5.90	2.79	16.5	0.05	0.17	257.84	257.68	267.50						
	** WEIR-MH1	EXD-MH1					0.10	12	0.005	0.013	2.52	3.21	13.5	0.09	0.09	258.00	257.91	265.40	281.08					
PR-1B-CB-7	CB-7	DH-5	0.13	6.00	5.80	0.73	12	0.010	0.013	3.56	4.54	0.93	50.0	0.18	0.50	260.30	259.80	265.00	287.01					
PR-1B-CB-8	CB-8	DH-6	0.08	6.00	5.80	0.49	12	0.010	0.013	3.56	4.54	0.82	14.5	0.05	0.14	261.32	261.18	266.02	268.21					
PR-1B-CB-9	CB-9	DH-6	0.02	6.00	5.80	0.11	12	0.025	0.013	5.63	7.17	0.13	5.5	0.01	0.14	261.32	261.18	266.02	268.21					
	DH-6	DH-6	0.13	6.00	5.80	0.73	12	0.010	0.013	3.56	4.54	0.83	58.5	0.21	0.58	259.80	259.22	267.01	268.21					
	DH-6	DH-7	0.23	6.21	5.80	1.33	12	0.025	0.013	5.68	7.23	1.69	48.0	0.11	1.22	259.22	258.80	266.21	266.76					
	DH-7	DH-8	0.23	6.21	5.80	1.33	12	0.025	0.013	5.68	7.23	1.69	70.0	0.18	1.78	258.80	258.22	266.76	265.47					
PR-1B-CB-10	CB-10	DH-8	0.06	6.00	5.80	0.32	12	0.025	0.013	5.65	7.17	0.41	5.5	0.01	0.14	260.37	260.43	265.27	266.47					
PR-1B-CB-11	CB-11	DH-9	0.09	6.00	5.80	0.53	12	0.010	0.013	3.56	4.54	0.67	14.5	0.05	0.14	260.57	260.43	265.27	266.47					
PR-1B-CB-12	CB-12	DH-9	0.06	6.00	5.80	0.42	12	0.005	0.013	2.52	3.21	0.54	35.5	0.18	0.14	260.57	260.43	265.27	266.47					
PR-1B-CB-13	CB-13	DH-9	0.07	6.00	5.80	0.40	12	0.009	0.013	2.58	4.18	0.61	21.0	0.08	0.18	259.30	255.12	260.00	261.00					
	DH-9	WQJ-2	0.38	6.38	5.80	2.18	12	0.005	0.013	2.62	3.21	2.77	104.5	0.54	0.52	256.22	255.70	265.47	265.48					
	DH-9	WQJ-2	0.14	6.18	5.80	0.82	12	0.005	0.013	2.52	3.21	1.00	116.0	0.80	0.58	255.12	254.54	261.00	265.48					
	WQJ-2	DOWNHILL	0.52	6.88	5.69	2.94	12	0.005	0.010	3.28	4.17	3.75	16.5	0.07	0.08	254.44	254.44	265.46						
	** WEIR-MH2	EXD-MH2					0.10	12	0.005	0.013	3.56	4.54	0.13	17.5	0.08	0.18	254.46	254.28	266.46					

Pipe lengths were taken from center of structures

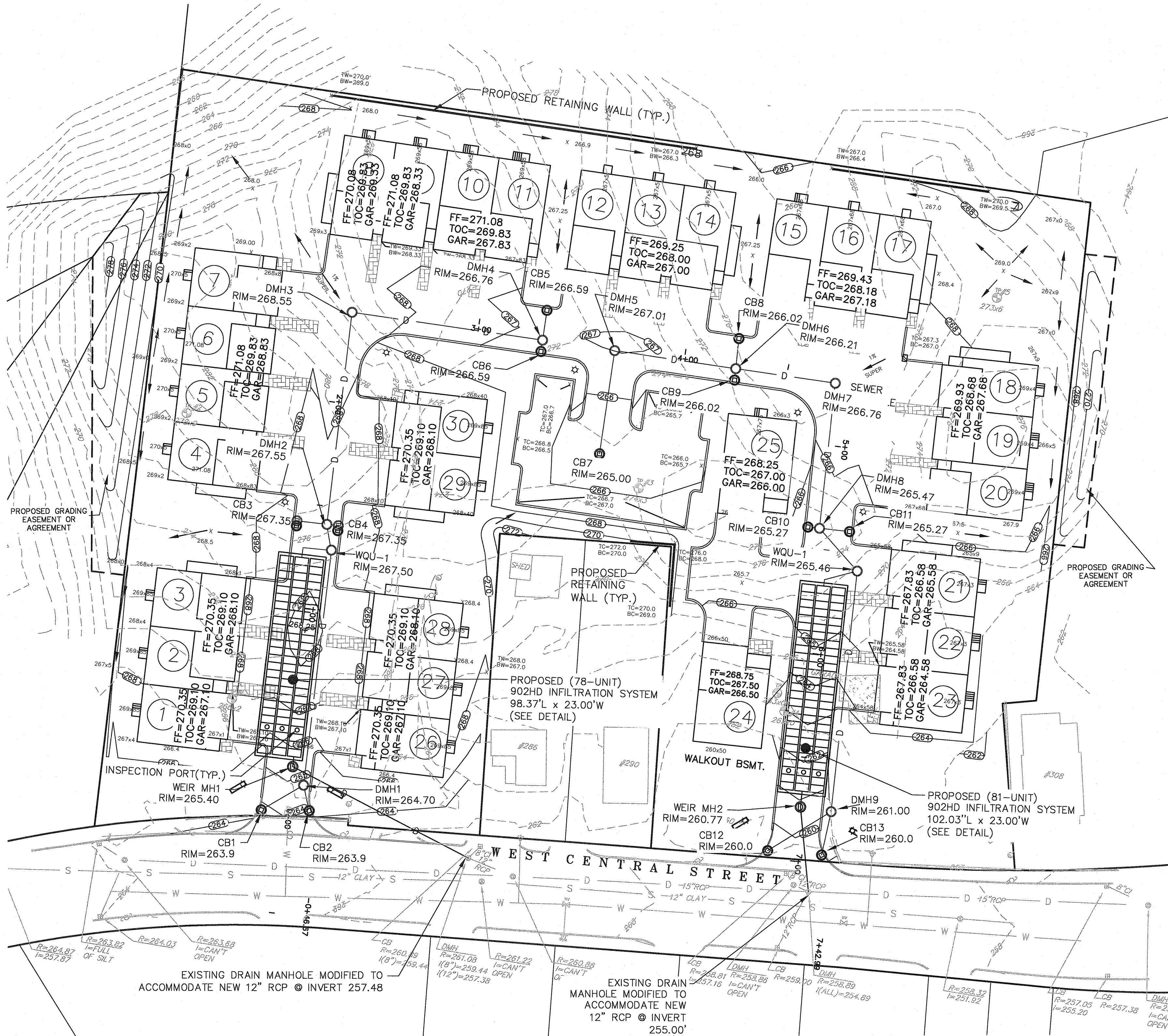
** = 100 yd discharge flow rate from HYDROCAD

A circular prohibition sign with a diagonal slash. Inside the circle is a stylized illustration of a hand using a shovel to dig into the ground.

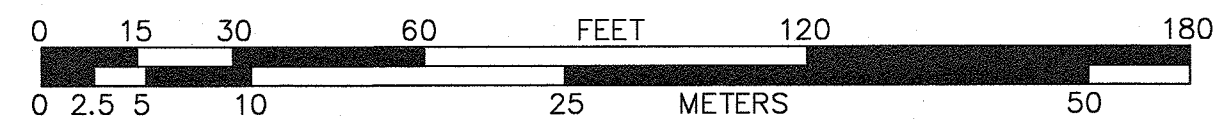
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1. INSTALL CONNECTIONS TO CATCH BASINS, TSS REMOVAL UNIT AND DRAIN MANHOLES.
2. CONTRACTOR & ARCHITECT ARE TO VERIFY SITE UTILITIES PRIOR TO DESIGN & CONSTRUCTION.
- 3.
4. ALL DRAIN PIPES ARE 12" RCP CLIII UNLESS OTHERWISE NOTED

CONSTRUCTION ON THIS LAND IS SUBJECT TO ANY EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, RESERVATIONS, OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.



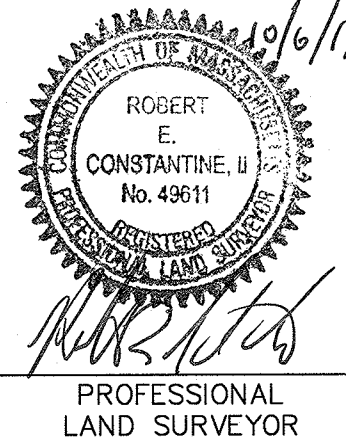
1. EACH SUBSURFACE CHAMBER WILL BE INSTALLED SEPARATELY TO DESIGN ELEVATION.
2. INSTALL CONNECTIONS TO CATCH BASINS, TSS REMOVAL UNIT AND DRAIN MANHOLES.
3. EXCAVATE AND INSTALL SUBSURFACE UNIT, BACKFILL W/ STONE MAINTAINING 18"-24" COVER AND AS-BUILT EACH SECTION.



F3988

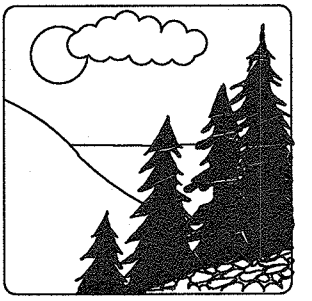
APPROVED DATE:
FRANKLIN PLANNING BOARD

DATE: _____
BEING A MAJORITY



APPLICANT
JOEL D'ERRICO
72 DEERVIEW WAY
FRANKLIN, MA 02038

DATE	REVISED
------	---------



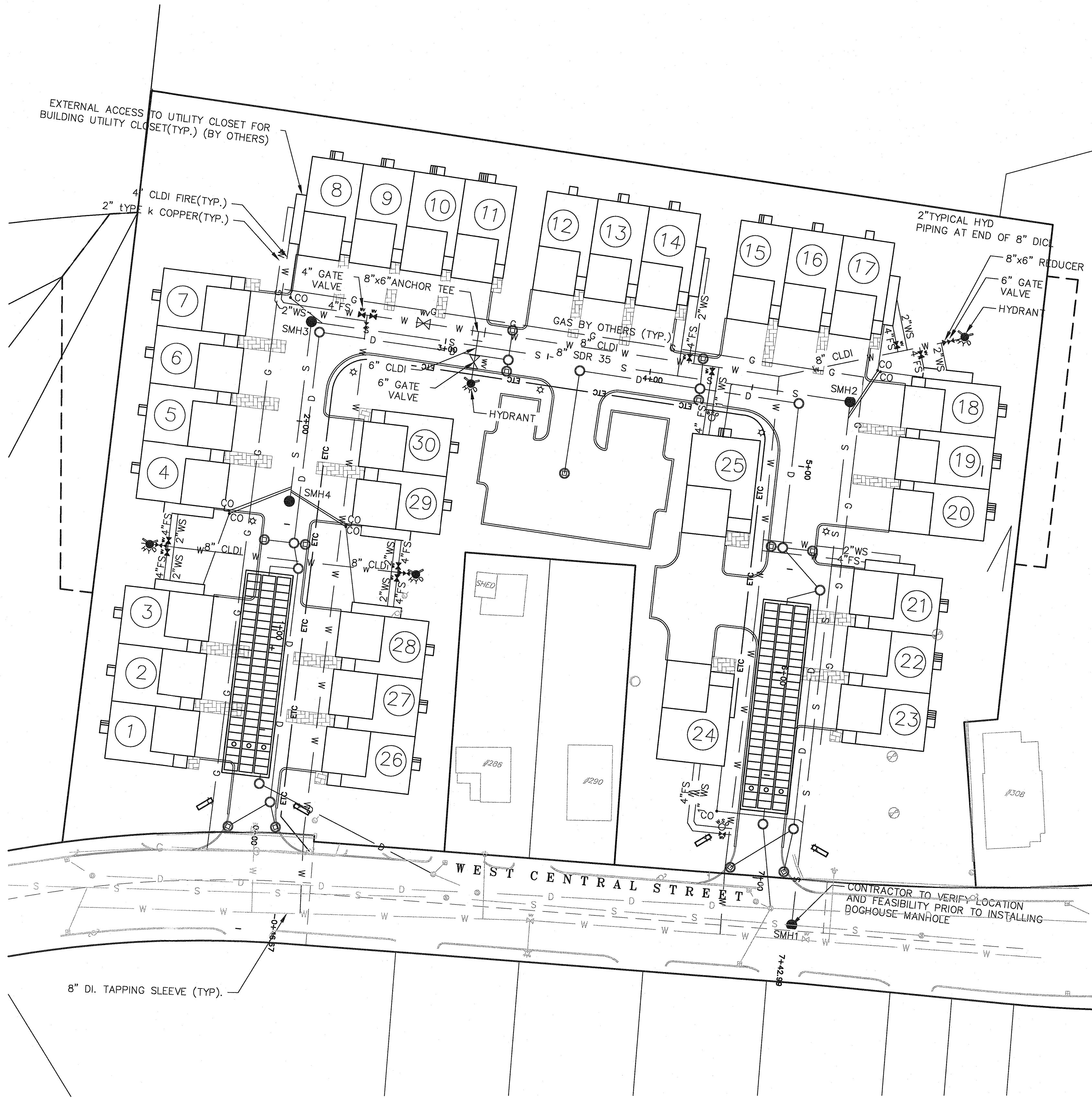
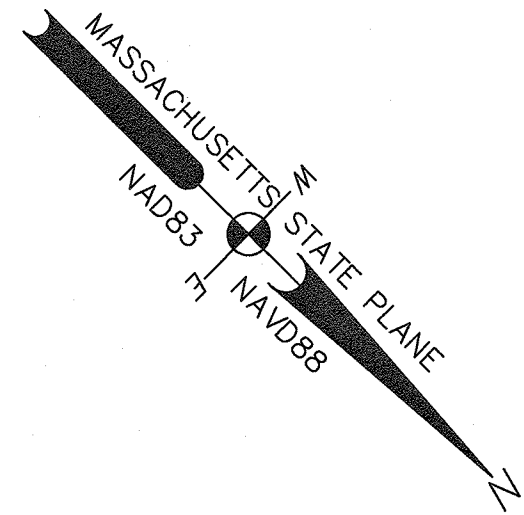
Engineering & Land Surveying
55 WEST CENTRAL STREET
FRANKLIN, MA 02038
www.guerriereandhannon.com

GRADING & DRAINAGE

DATE SEPTEMBER 26, 2017	SCALE 1"=30'
SHEET 6 OF 13	JOB NO. F3988

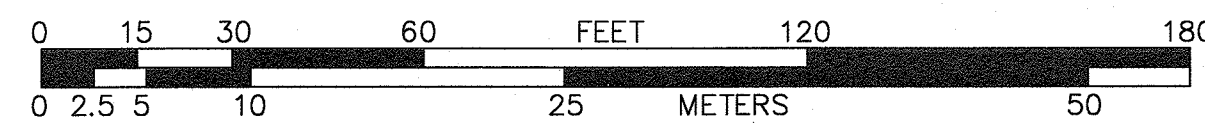
LEGEND

A.M.	ASSESSOR'S MAP
N/F	NOW OR FORMERLY
UP#	UTILITY POLE
⊙	EXISTING SEWER MANHOLE
⊗	EXISTING WATER VALVE
⊕	PROP FIRE HYDRANT
⊘	EXISTING UTILITY POLE
⊞	EXISTING CATCHBASIN
⊚	PROPOSED DRAIN MANHOLE
~~~~~	EXISTING TREELINE
000.0x	EXISTING SPOT ELEVATION
---000---	EXISTING CONTOUR
—S—	EXISTING SEWERLINE
—W—	EXISTING WATERLINE
—G—	EXISTING GASLINE
—OHW—	EXISTING OVERHEAD WIRE
▨	EXISTING CONCRETE
♿	HANDICAP SPACE
#	EXISTING NUMBER OF SPACES
EP	EDGE OF PAVEMENT
GC	GRANITE CURB
ER	EXISTING RAMP
P.R.	PROPOSED RAMP
◇	PARKING RECOMMENDED BY DPW



DIG SAFE NOTE:

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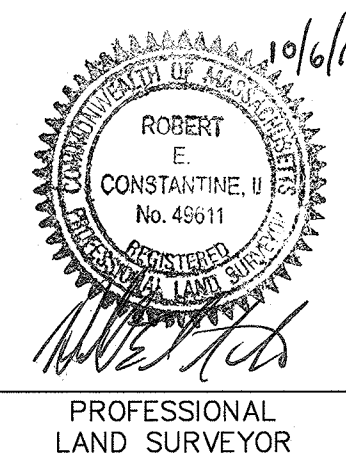
WATER NOTES

1. ALL PROPOSED WATER LINES TO MAINTAIN A 10' HORIZONTAL SEPARATION FROM SANITARY SEWER LINES OR MAINTAIN A 18" VERTICAL SEPARATION FROM SANITARY SEWER LINES.
2. IN CASES WHERE VERTICAL AND HORIZONTAL SEPARATIONS ARE NOT MEET, THE WATER LINE MUST BE ENCASED WITH A DUCTILE IRON SLEEVE OR ENCASED IN CONCRETE.
3. ALL WATER TO BE ABOVE SEWER LINE UNLESS OTHERWISE NOTED. IN THE CASE WHERE THE WATER MAIN LINE IS TO BE INSTALLED BELOW A SANITARY LINE, BOTH UTILITY LINES MUST BE ENCASED.
4. ANY WATER LINE THAT IS LESS THAN 5 FT OF COVER FROM FINISH GRADE SHALL BE INSULATED.
5. PROPOSED WATER MAIN TO HAVE BETWEEN A 5'-7' COVER TO FINISH GRADE.
6. THE WATER MAIN AND SERVICES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE FRANKLIN WATER DEPARTMENT REGULATIONS.
7. ALL WATER MAIN PIPE TO BE CLASS 52, CEMENT LINED, DUCTILE IRON (C.L.D.I.) SIZED AS NOTED. ALL FITTINGS SHALL BE RESTRAINED MECHANICAL JOINT.
8. VALVES, HYDRANTS AND SERVICES SHALL COMPLY WITH THE FRANKLIN WATER DEPARTMENT STANDARDS.
9. THE WATER MAIN LINE IS TO BE PRESSURE TESTED AND DISINFECTED PER AWWA AND THE WATER DEPARTMENT STANDARDS.
10. CONTRACTOR TO PERFORM EXPERIMENTAL EXCAVATIONS PRIOR TO ANY WATER MAIN WORK TO DETERMINE THE EXACT SIZE, LOCATION, ELEVATION AND MATERIAL OF CONSTRUCTION OF THE EXISTING UTILITY.

JOB NO. F3988

APPROVED DATE:  
FRANKLIN PLANNING BOARD

DATE: _____  
BEING A MAJORITY



APPLICANT:  
JOEL D'ERRICO  
72 DEERVUE WAY  
FRANKLIN, MA 02038

REVISIONS

DATE	REVISED



Guerriere  
&  
Halnon, Inc.

Engineering & Land Surveying  
Ph. (508) 528-3221 55 WEST CENTRAL STREET  
Fx. (508) 528-7921 FRANKLIN, MA 02038  
www.guerriereandhalnon.com

SITE PLAN FOR  
HIGHLAND VILLAGE  
278-300 WEST CENTRAL  
STREET  
IN  
FRANKLIN  
MASSACHUSETTS

PROPOSED UTILITIES

DATE  
SEPTEMBER 26, 2017

SCALE  
1"=30'

SHEET  
7 OF 13

JOB NO. F3988



LEGEND

A.M.	ASSESSOR'S MAP
N/F	NOW OR FORMERLY
UP#	UTILITY POLE
S	EXISTING SEWER MANHOLE
W	EXISTING WATER VALVE
⚡	PROP FIRE HYDRANT
U	EXISTING UTILITY POLE
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~~~~~	EXISTING TREELINE
000.0x	EXISTING SPOT ELEVATION
---000---	EXISTING CONTOUR
---S---	EXISTING SEWERLINE
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♿	HANDICAP SPACE
##	EXISTING NUMBER OF SPACES
EP	EDGE OF PAVEMENT
GC	GRANITE CURB
ER	EXISTING RAMP
P.R.	PROPOSED RAMP
◇	PARKING RECOMMENDED BY DPW

PLANTING LEGEND

SYMBOL	NAME	SIZE	QUANTITY
	LITTLE LEAF LINDEN TILIA CORDATA	4" MIN. 2.5" CAL.	15
	SUPERIOR HYBRID POPLAR POPULUS DELTOIDS X POPULUS NIGRA	4" MIN. 2.5" CAL.	13
	ROSE OF SHARON HIBISCUS SYRIACUS	5 GAL.	14
	RHODODENDRON HENRY'S RED (DARK RED)	2' MIN.	6
	HERMOCADIS DAYLILIES	2 GAL.	8
	PYRAMIDILIS ARBORVITAE THUJA ACCIDENTALIS	5' MIN.	20

PLANTINGS TAKEN FROM THE TOWN OF FRANKLIN BEST PRACTICE GUIDE

SHADE TREES TO BE TO BE PLACED AT AN AVERAGE SPACING OF 50 FEET AND OF A HARDWOOD SPECIES APPROVED BY THE PLANNING BOARD, 2 1/2" IN DIAMETER, CALIPER 1" ABOVE GRADE. TREES SHALL BE VARIED AMONG THE FOLLOWING SPECIES:

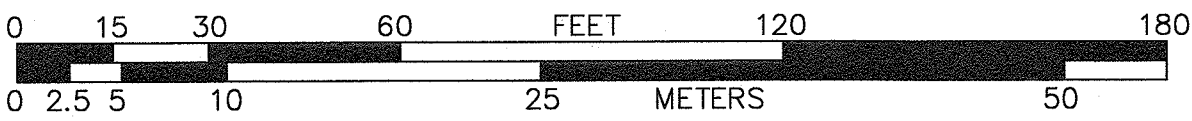
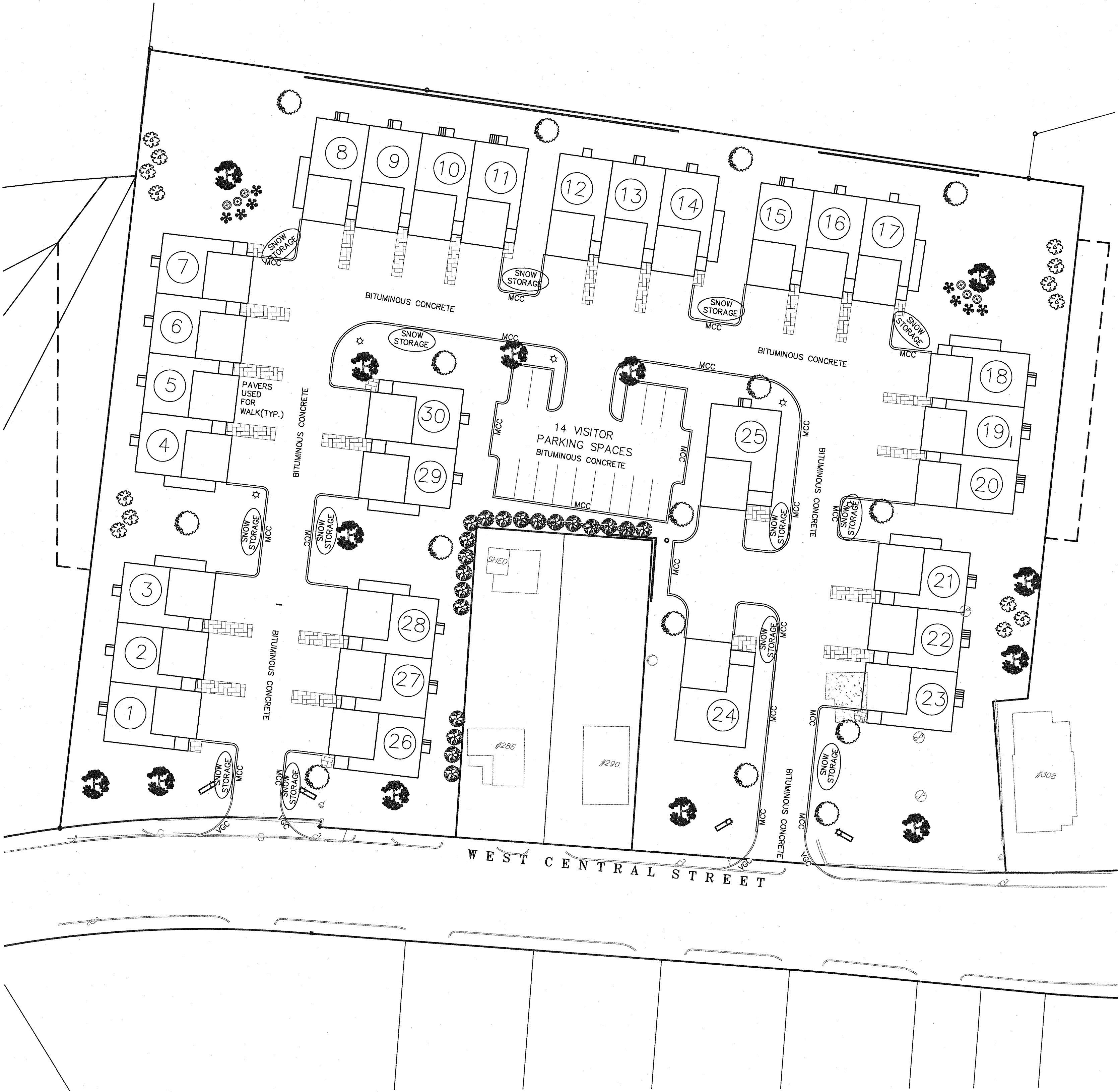
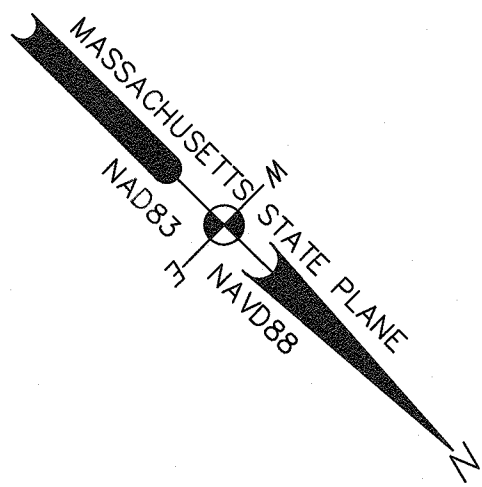
- SUGAR MAPLE (ACER SACCHARUM)
- PIN OAK (QUERCUS PALUSTRIS)
- RED MAPLE (ACER RUBRUM)



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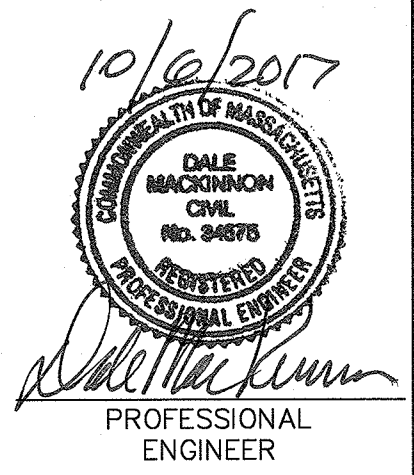
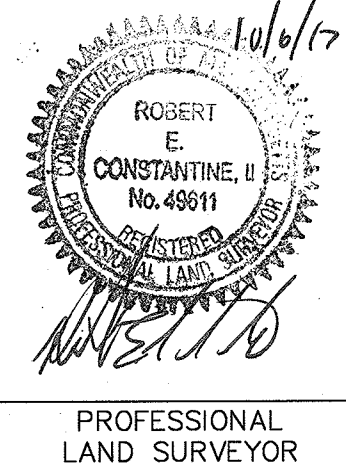
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JOB NO. F3988

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DATE: _____  
BEING A MAJORITY



APPLICANT  
JOEL D'ERRICO  
72 DEERVIEW WAY  
FRANKLIN, MA 02038

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DATE	REVISED

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Engineering & Land Surveying  
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SITE PLAN FOR  
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278-300 WEST CENTRAL STREET  
IN  
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MASSACHUSETTS

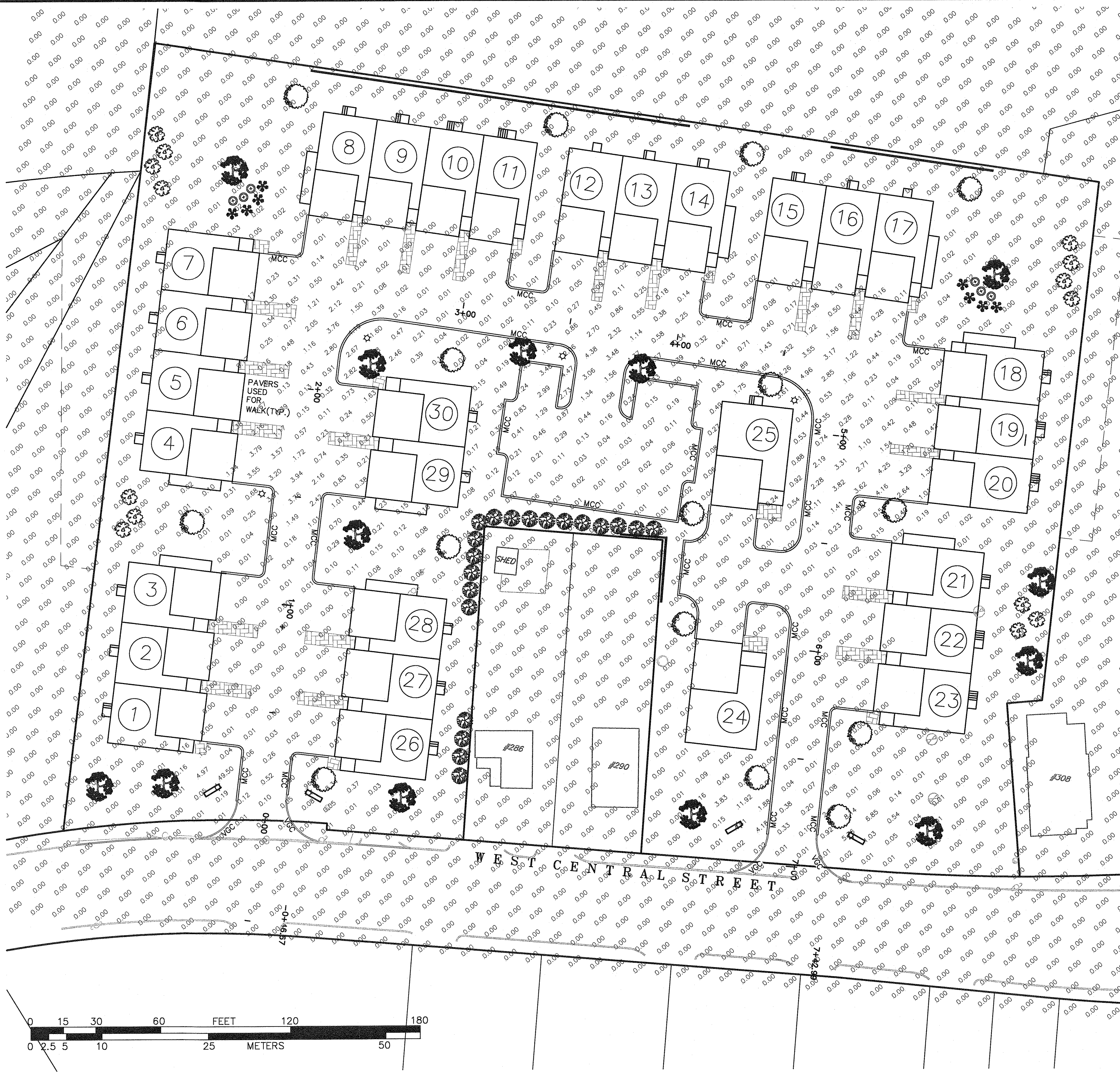
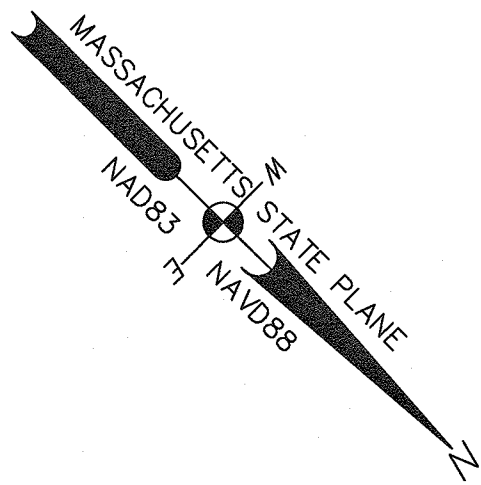
LANDSCAPING

DATE SEPTEMBER 26, 2017	SCALE 1"=30'
SHEET 8 OF 13	JOB NO. F3988



## LEGEND

A.M.	ASSESSOR'S MAP
N/F	NOW OR FORMERLY
UP#	UTILITY POLE
S	EXISTING SEWER MANHOLE
X	EXISTING WATER VALVE
⊕	PROP FIRE HYDRANT
⊕	EXISTING UTILITY POLE
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⊕	PROPOSED DRAIN MANHOLE
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♿	HANDICAP SPACE
(##)	EXISTING NUMBER OF SPACES
EP	EDGE OF PAVEMENT
GC	GRANITE CURB
ER	EXISTING RAMP
P.R.	PROPOSED RAMP
◇	PARKING RECOMMENDED BY DPW



THIS PHOTOMETRIC PLAN IS BASED SOLELY UPON PROPRIETARY INFORMATION SUPPLIED BY THE LUMINAIRE MANUFACTURER AND CLIENT RECOMMENDATION.

LUMINAIRE LOCATIONS, LIGHTING PATTERNS, AND ILLUMINATION LEVELS WERE PREPARED UTILIZING INFORMATION SUPPLIED BY THE LUMINAIRE MANUFACTURER AND THE SOFTWARE PACKAGE SIMPLY OUTDOOR. IT'S VALUES SHOULD BE CONSIDERED APPROXIMATE IN NATURE AND SHALL BE VERIFIED BY THE LUMIN MANUFACTURER PRIOR TO INSTALLATION.

ACTUAL PERFORMANCE OF LIGHTING PATTERNS AND/OR ILLUMINANCE VALUES MAY VARY DUE TO VARIATIONS IN LIGHT HEIGHT, ELECTRICAL VOLTAGE, LAMP WATTAGE, AND OTHER VARIABLE FIELD CONDITIONS, OR USING A LUMINAIRE OTHER THAN SPECIFICALLY NOTED HEREON.

GUERRIERE & HALNON, INC ASSUMES NO RESPONSIBILITY FOR ANY SAFETY AND/OR SECURITY RISKS DUE TO INADEQUATE LIGHT LEVELS WHICH MAY OCCUR AFTER INSTALLATION.

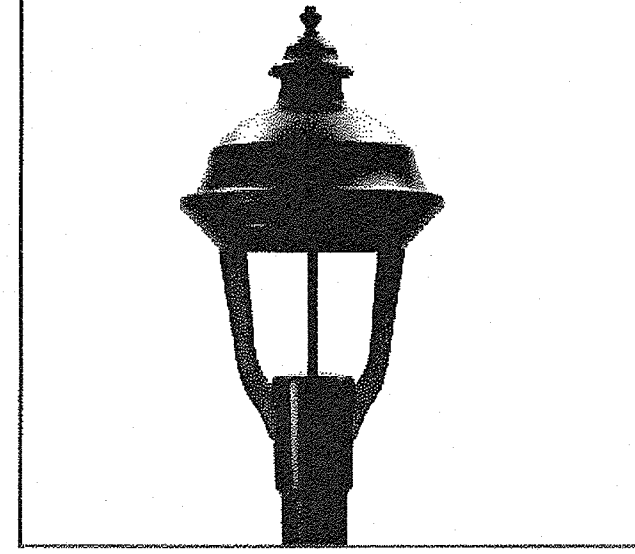


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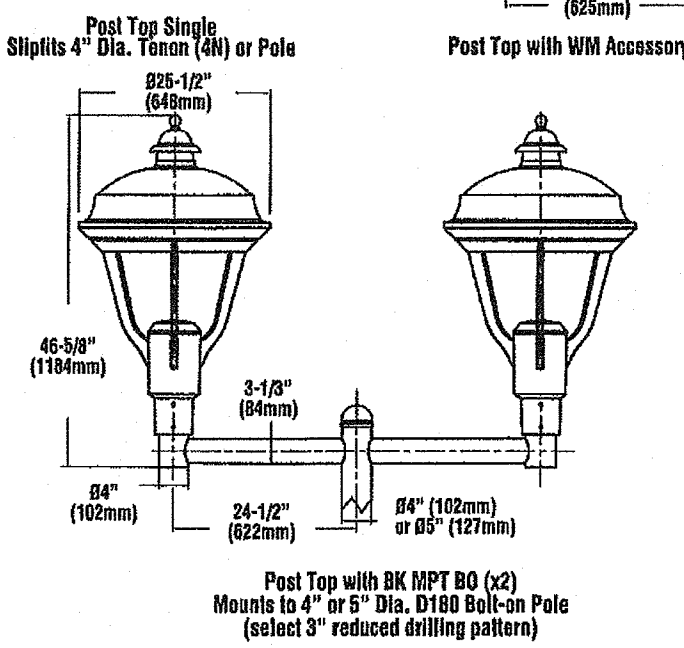
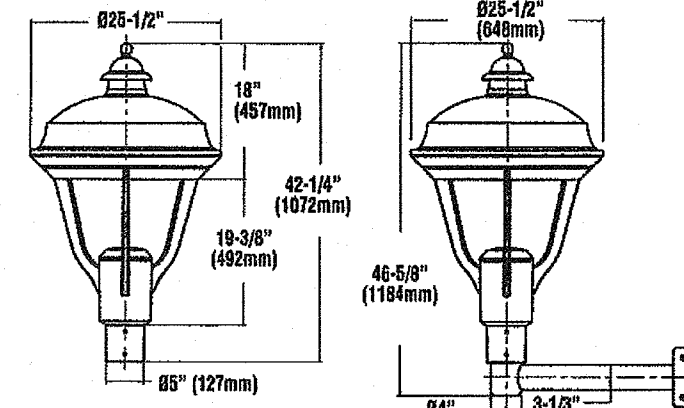
## LED LEXINGTON DECORATIVE AREA LIGHTS



LIGHT OUTPUT - XLXMS					
POST TOP MOUNT	# of LEDs	Type 3	Lumens (Nominal)	Type 5	Watts (Nominal)
SS	64	6180	5570	5240	70
HO	64	8670	8270	7510	108
SS	64	5930	5350	5150	70
HO	64	8250	7560	6890	108

LED Chips are frequently updated therefore values may increase.

### DIMENSIONS



### BUG LISTING

XLXMS PT - TYPE 3					
Drive Current	Color Temp. *	Lumens	Watts	LER	BUG Rating
HO	CW	8669	108	80	B1-U2-G2
NW	CW	8251	108	76	B1-U2-G1
SS	CW	6184	70	88	B1-U1-G1
NW	CW	5930	70	85	B1-U1-G1

XLXMS PT - TYPE 5					
Drive Current	Color Temp. *	Lumens	Watts	LER	BUG Rating
HO	CW	7510	108	70	B3-U1-G1
NW	CW	6884	108	64	B3-U1-G1
SS	CW	5243	70	75	B2-U1-G1
NW	CW	5146	70	74	B2-U1-G1

XLXMS PT - TYPE FT					
Drive Current	Color Temp. *	Lumens	Watts	LER	BUG Rating
HO	CW	8271	107	77	B1-U2-G2
NW	CW	7580	108	70	B1-U2-G2
SS	CW	5572	70	80	B1-U2-G2
NW	CW	5354	70	76	B1-U2-G2

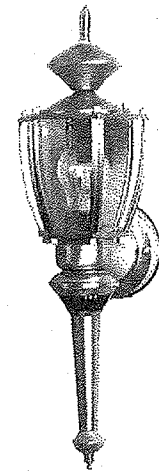
* Color Temperature: NW-4000K, CW-5000K

LUMINAIRE EPA CHART - Lexington		
MOUNTING STYLE	PT	1.4
PT Single	PT	2.7

SHIPPING WEIGHTS - Lexington	
Catalog Number	Est. Weight (kg/lbs)
XLXMS (PT)	29/64

## STREET LIGHTING

NOT TO SCALE



CCI 19 in. Pewter Motion Activated Outdoor Beveled Glass Coach Lantern

### Product Overview

The L2553PW 19 in. Motion Activated Beveled Glass Coach Lantern features switchable dual functions that include motion activated or dusk to dawn mode. Choose the function that suits your project. The high quality 19 in. motion activated lantern comes in a pewter finish and includes adjustable time and sensitivity settings which allow you to customize the unit for your unique specifications. Motion activated lantern operates up to a 100-Watt bulb (not included); Unit may be used with or without the tail (included). Unit is weather resistant and combines functionality with structure and style. UL and CUL Listed - industry standards for safety and longevity. The Designers Edge is an international manufacturer and marketer of work lights, motion activated lighting, floodlighting, security lighting products, and landscape lighting products. Since 1987, we have built our reputation as an innovator of high quality, uniquely designed products. We have been recognized as a leader in our industry by receiving many patents and awards for our product designs and packaging.

- 150 degree motion activated coverage
- 30 ft. detection range
- Adjustable time and sensitivity settings
- Comes with a 1 year warranty

### Specifications

Dimensions	
Product Depth (in.)	7
Product Height (in.)	19
Product Length (in.)	7
Product Width (in.)	5.8
Number of Bulbs Required	1
Outdoor Lighting Features	Motion Sensing, Weather Resistant
Power Type	Low voltage

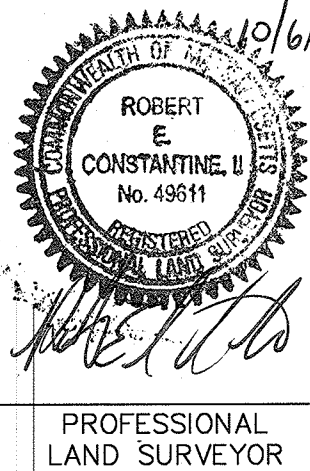
## UNIT LIGHTING ON MOTION SENSORS

NOT TO SCALE

JOB NO. F3988

APPROVED DATE:  
FRANKLIN PLANNING BOARD

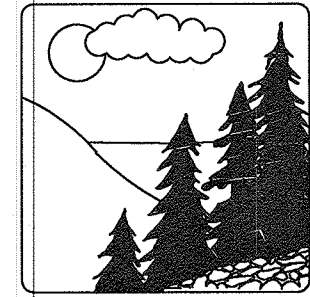
DATE: _____  
BEING A MAJORITY



APPLICANT  
JOEL D'ERRICO  
72 DEERVIE WAY  
FRANKLIN, MA 02038

## REVISIONS

DATE	REVISED



Guerriere  
&  
Halnon, Inc.

Engineering & Land Surveying  
55 WEST CENTRAL STREET  
FRANKLIN, MA 02038  
Ph. (508) 528-3221  
Fx. (508) 528-7921  
www.guerriereandhalnon.com

SITE PLAN FOR  
HIGHLAND VILLAGE  
278-300 WEST CENTRAL  
STREET  
IN  
FRANKLIN  
MASSACHUSETTS  
PHOTOMETRICS

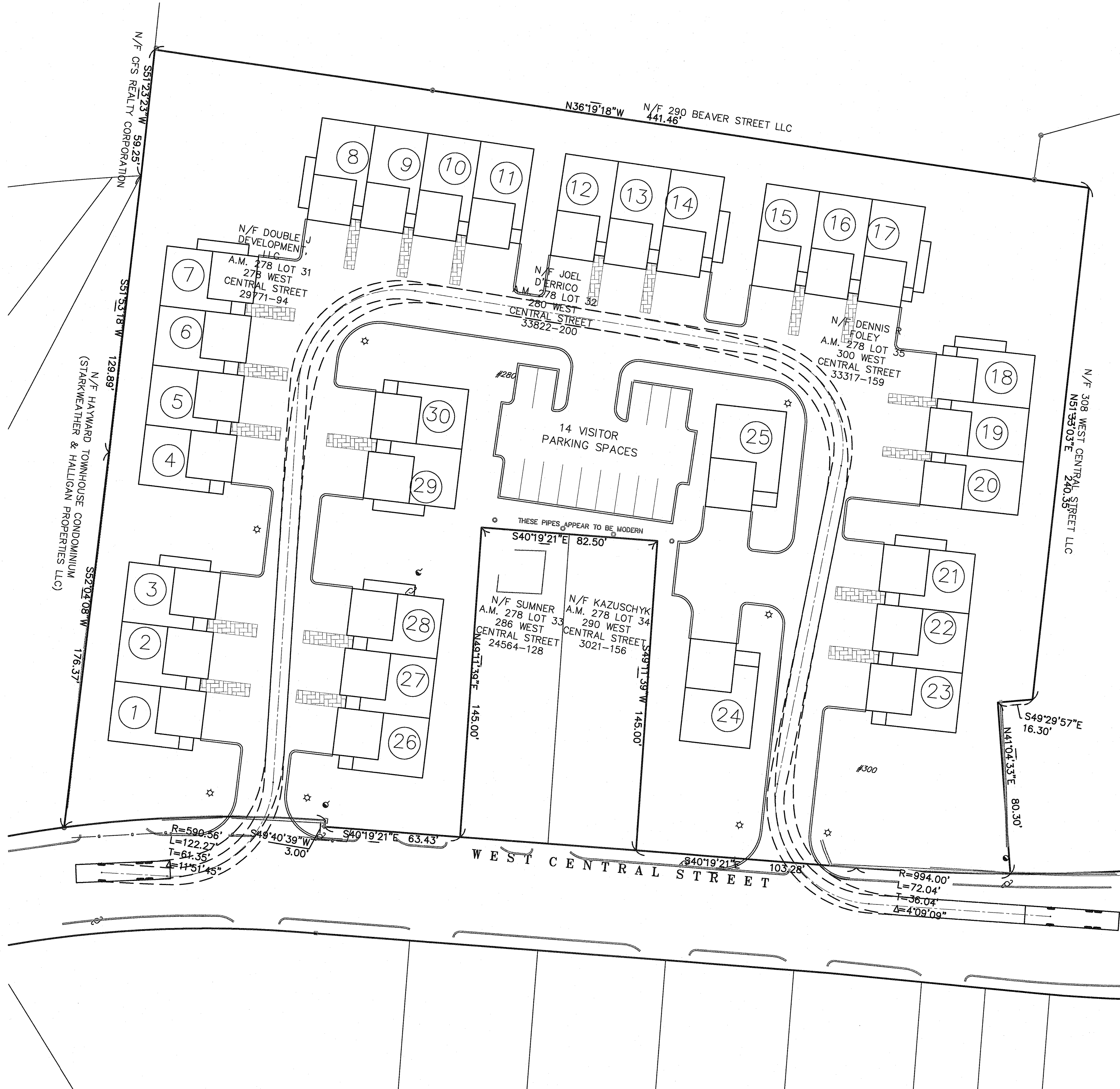
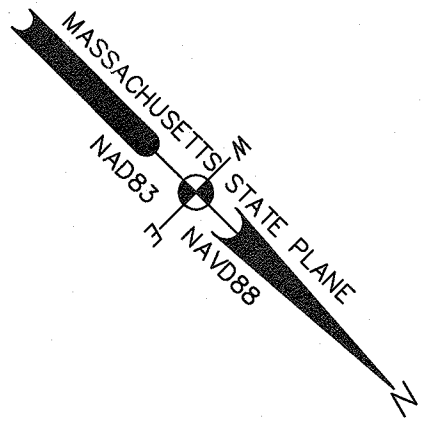
DATE  
SEPTEMBER 26, 2017  
SHEET  
9 OF 13

SCALE  
1"=30'  
JOB NO.  
F3988



LEGEND

A.M.	ASSESSOR'S MAP
N/F	NOW OR FORMERLY
UP#	UTILITY POLE
S	EXISTING SEWER MANHOLE
W	EXISTING WATER VALVE
⊗	PROP FIRE HYDRANT
U	EXISTING UTILITY POLE
⊞	EXISTING CATCHBASIN
⊙	PROPOSED DRAIN MANHOLE
---	EXISTING TREELINE
000.0x	EXISTING SPOT ELEVATION
---	EXISTING CONTOUR
S	EXISTING SEWERLINE
W	EXISTING WATERLINE
G	EXISTING GASLINE
OHW	EXISTING OVERHEAD WIRE
---	EXISTING CONCRETE
♿	HANDICAP SPACE
#	EXISTING NUMBER OF SPACES
EP	EDGE OF PAVEMENT
GC	GRANITE CURB
ER	EXISTING RAMP
P.R.	PROPOSED RAMP
◇	PARKING RECOMMENDED BY DPW



SHADE TREES TO BE TO BE PLACED AT AN AVERAGE SPACING OF 50 FEET AND OF A HARDWOOD SPECIES APPROVED BY THE PLANNING BOARD, 2 1/2" IN DIAMETER, CALIPER 1" ABOVE GRADE. TREES SHALL BE VARIED AMONG THE FOLLOWING SPECIES:

- SUGAR MAPLE (ACER SACCHARUM)
- PIN OAK (QUERCUS PALUSTRIS)
- RED MAPLE (ACER RUBRUM)



DIG SAFE NOTE:

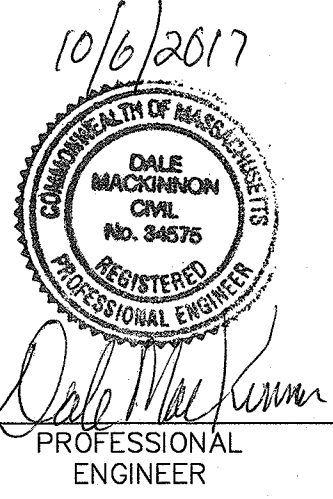
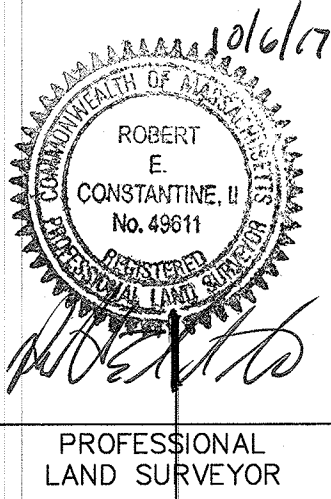
UTILITIES ARE PLOTTED FROM FIELD LOCATION AND ANY RECORD INFORMATION AVAILABLE, AND SHOULD BE CONSIDERED APPROXIMATE. OTHER UTILITIES MAY EXIST WHICH ARE NOT EVIDENT OR FOR WHICH RECORD INFORMATION WAS NOT AVAILABLE. CONTRACTORS (IN ACCORDANCE WITH MASS.G.L. CHAPTER 82 SECTION 40 AS AMENDED) MUST CONTACT ALL UTILITY COMPANIES BEFORE EXCAVATING AND DRILLING. ALSO, CALL 1(888)DIG-SAFE "DIG-SAFE" AT 1(888)344-7233

CONSTRUCTION ON THIS LAND IS SUBJECT TO ANY EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, RESERVATIONS, OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.

JOB NO. F3988

APPROVED DATE:  
FRANKLIN PLANNING BOARD

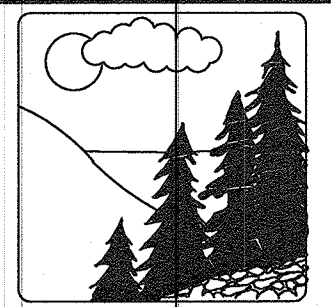
DATE: _____  
BEING A MAJORITY



APPLICANT  
JOEL D'ERRICO  
72 DEERVUE WAY  
FRANKLIN, MA 02038

REVISIONS

DATE REVISED



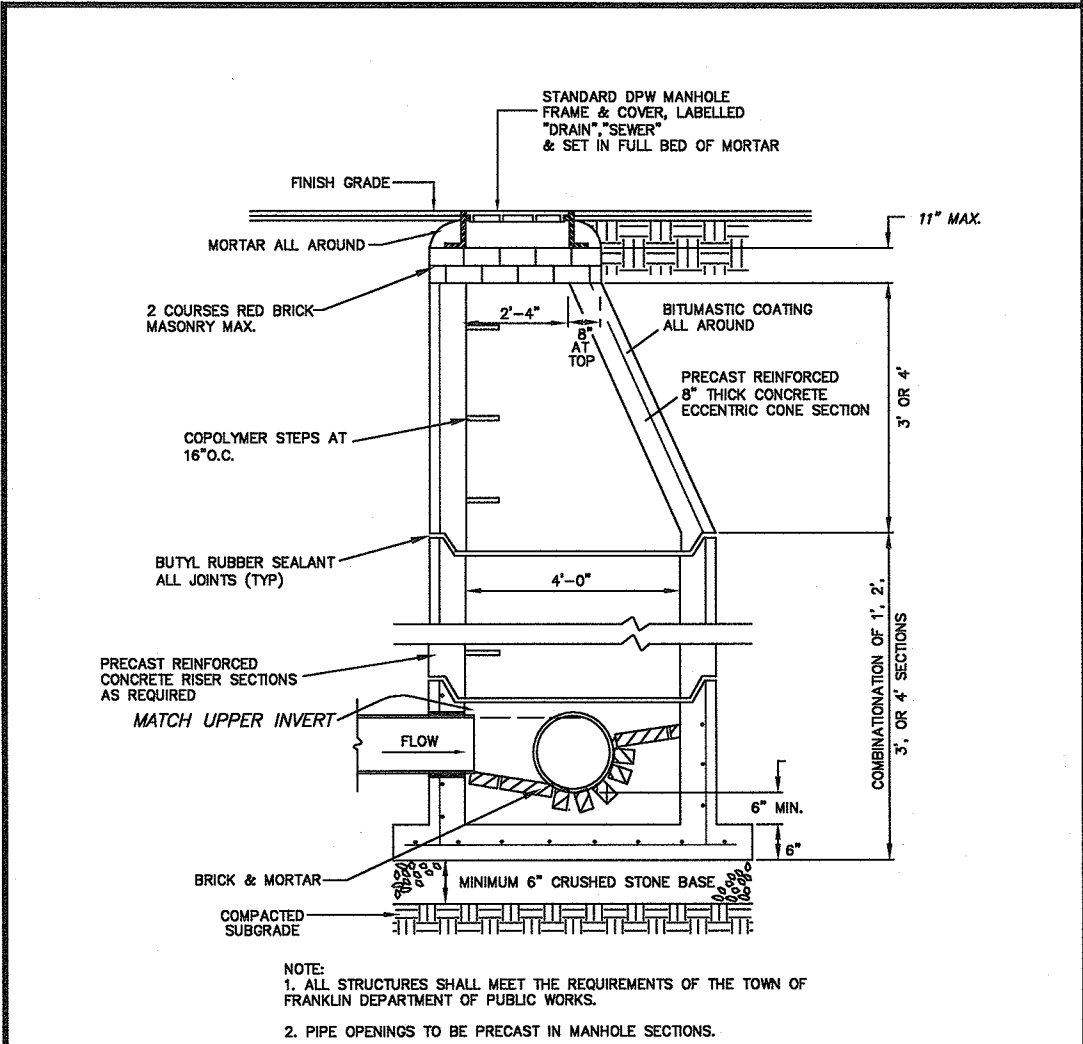
Engineering & Land Surveying  
Ph. (508) 528-3221 55 WEST CENTRAL STREET  
Fx. (508) 528-7921 FRANKLIN, MA 02038  
www.guerriereandhalnon.com

SITE PLAN FOR  
HIGHLAND VILLAGE  
278-300 WEST CENTRAL  
STREET  
IN  
FRANKLIN  
MASSACHUSETTS

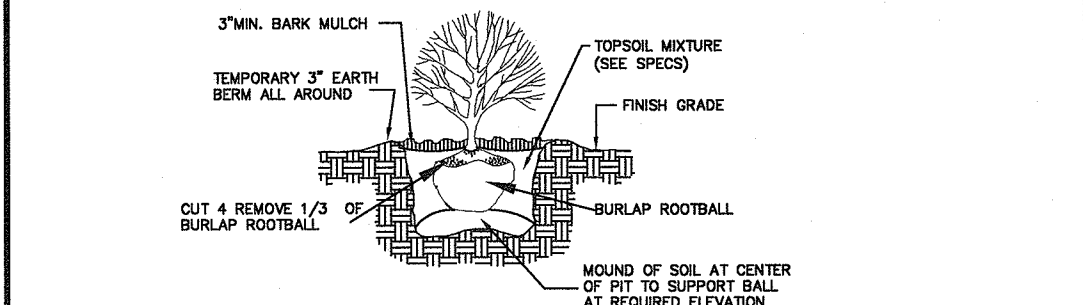
AUTO-TURN  
FIRE TRUCK

DATE SEPTEMBER 26, 2017 SCALE 1"=30'  
SHEET 10 OF 13 JOB NO. F3988

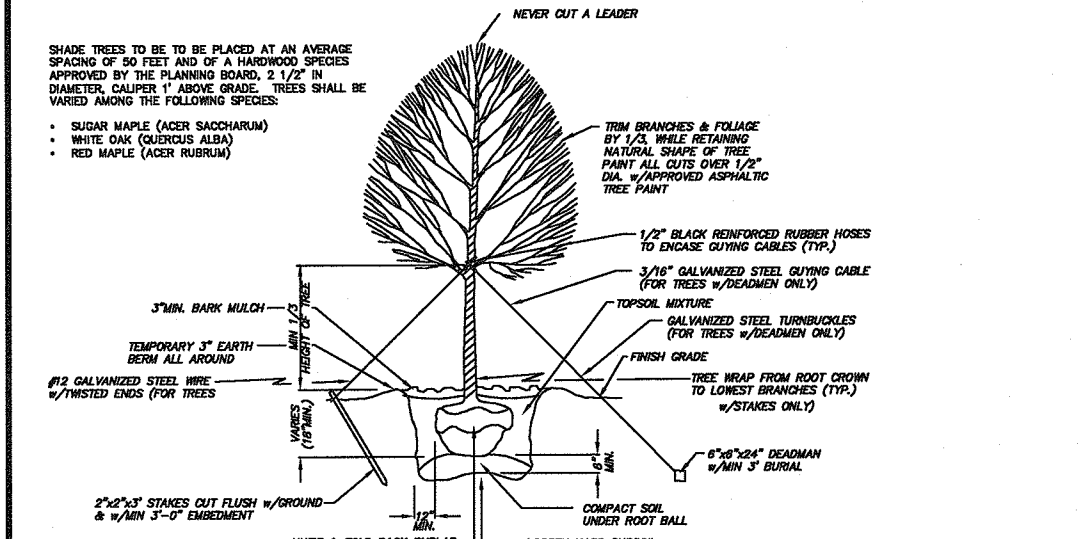




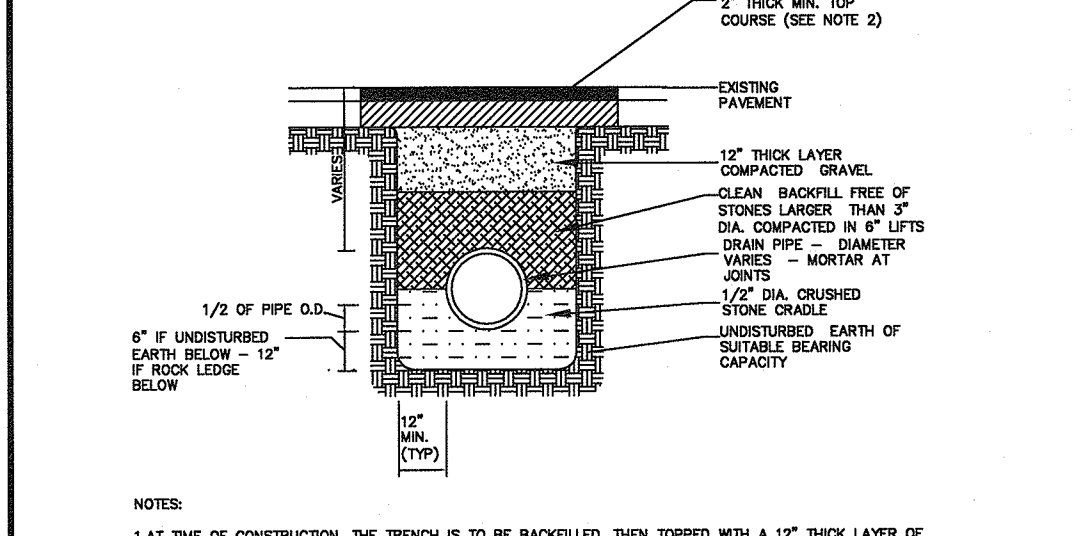
PRECAST CONCRETE DRAIN/SEWER MANHOLE  
NOT TO SCALE



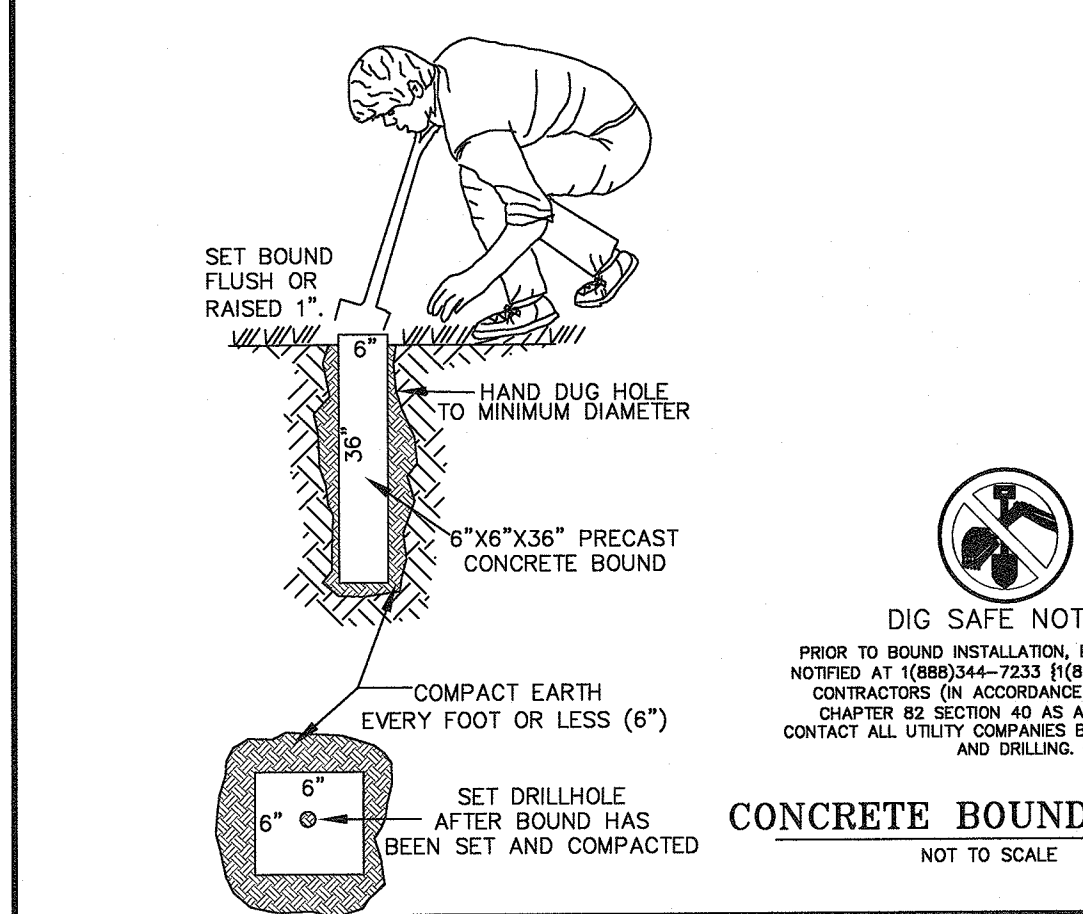
SHRUB DETAIL  
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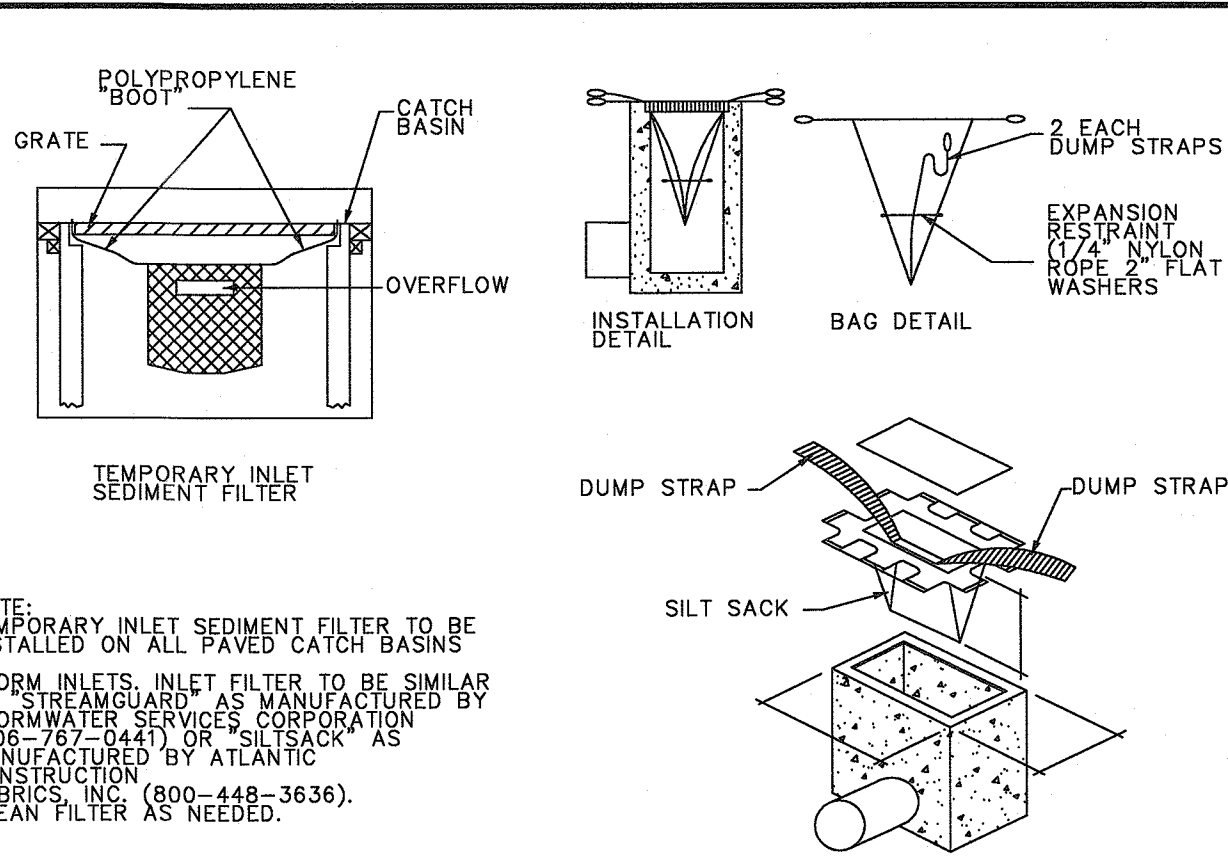
SPECIMEN DECIDUOUS TREE PLANTING DETAIL  
NOT TO SCALE



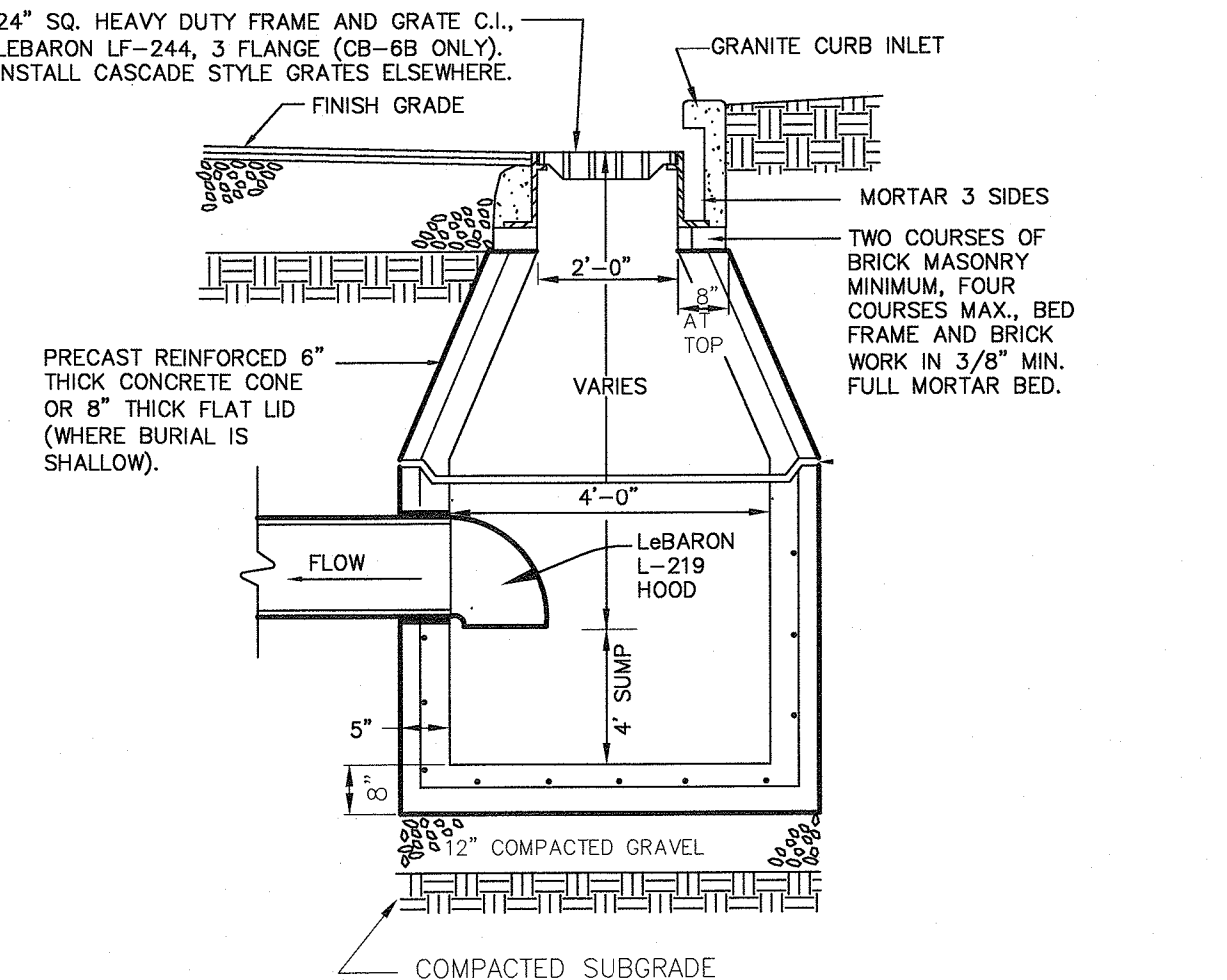
TYPICAL TRENCH SECTION FOR REINFORCED CONCRETE PIPE  
NOT TO SCALE



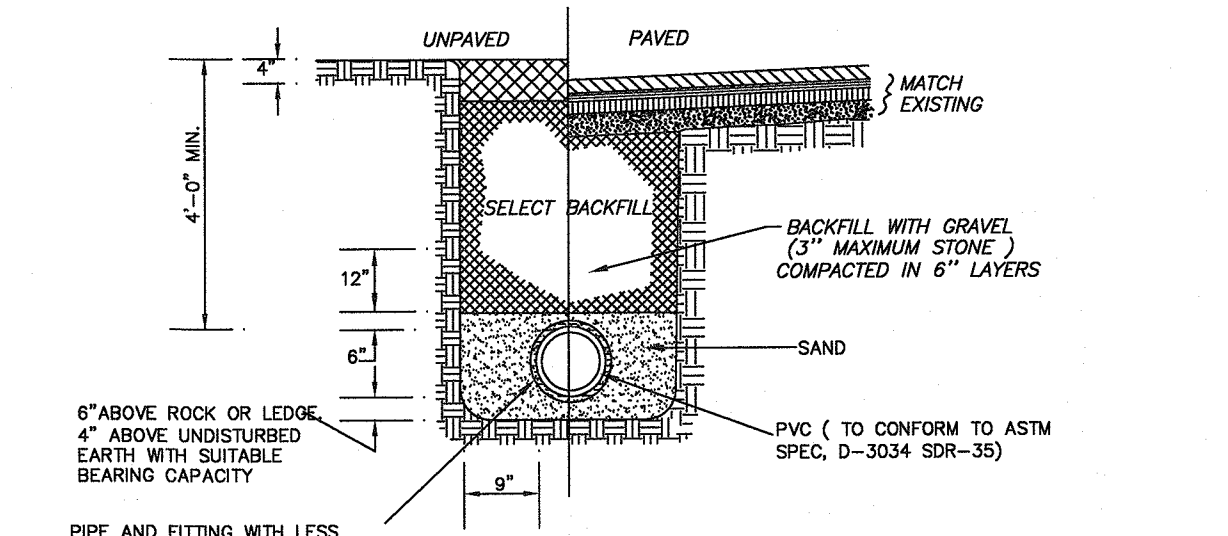
CONCRETE BOUND DETAIL  
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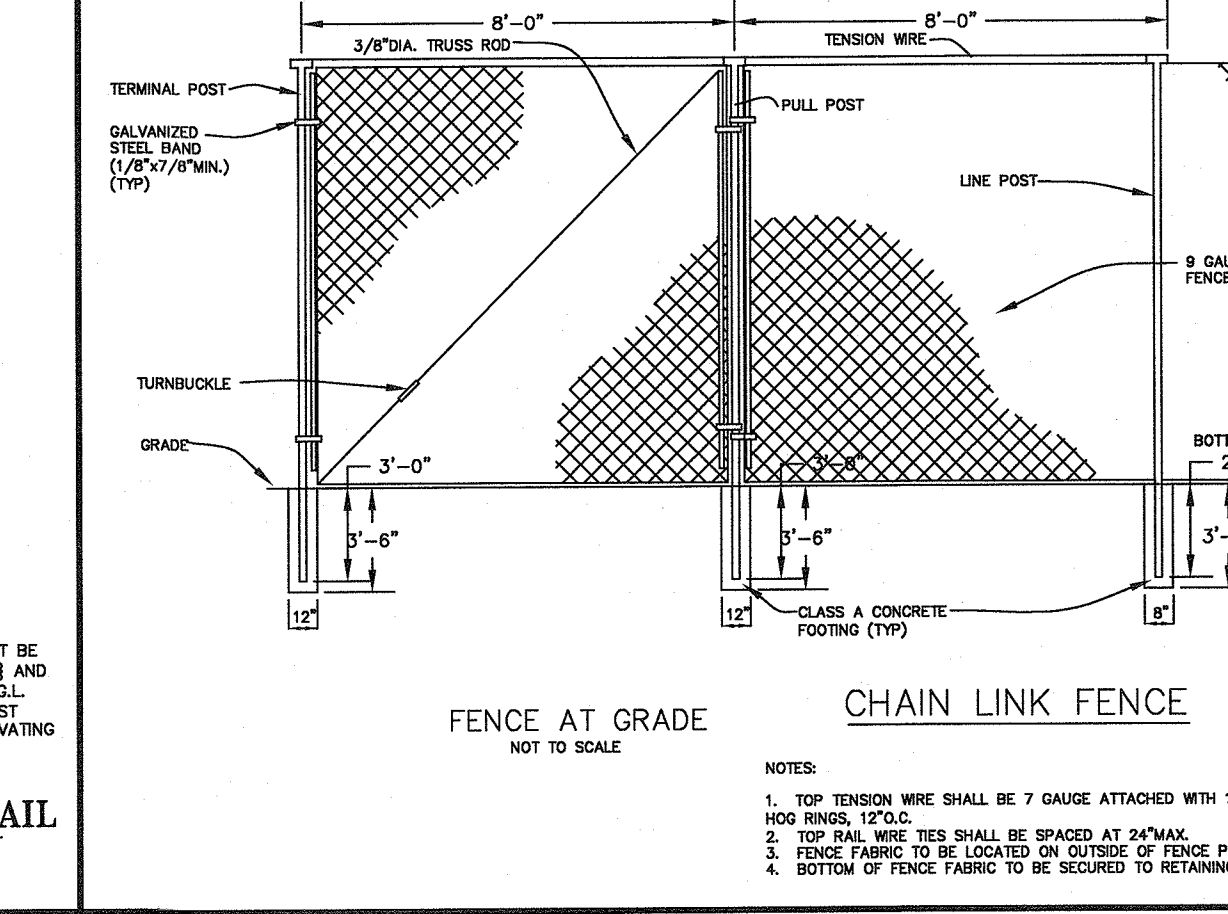
SILT SACK DETAIL  
NO SCALE



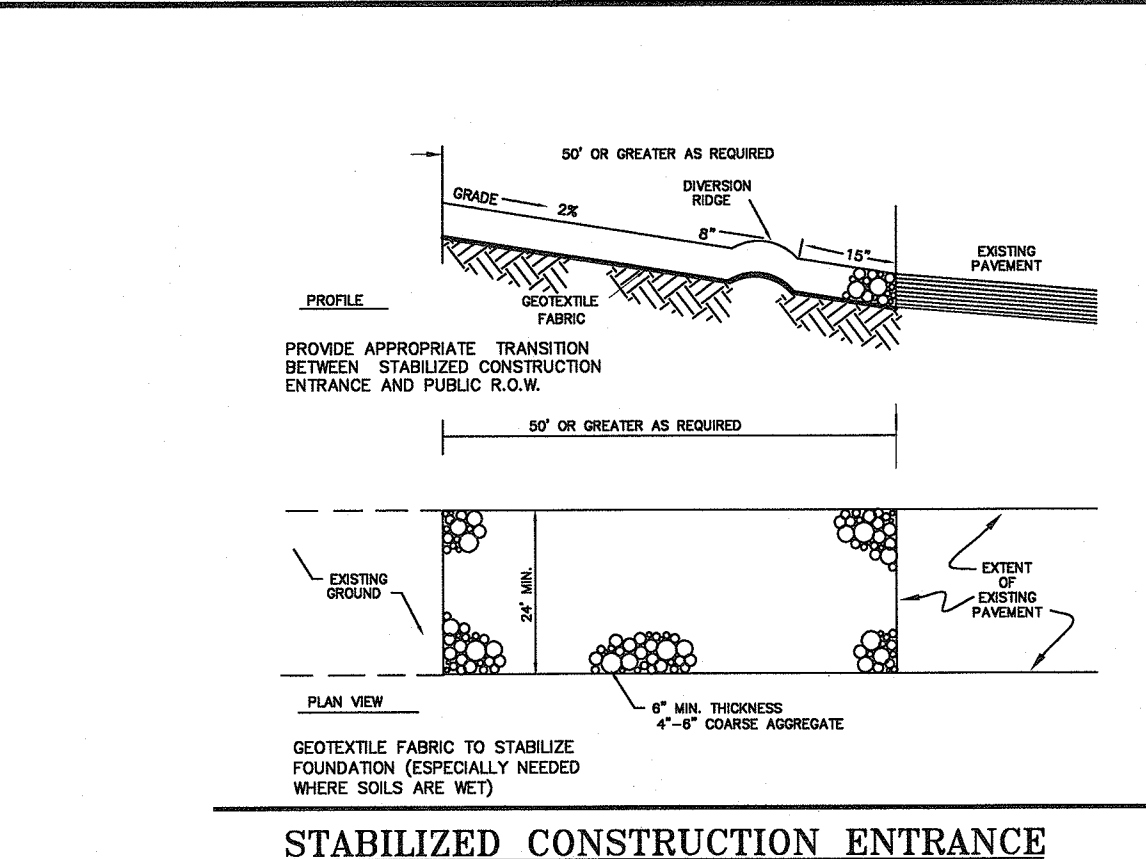
TYP. PRECAST CONCRETE CATCH BASIN DETAIL  
NOT TO SCALE



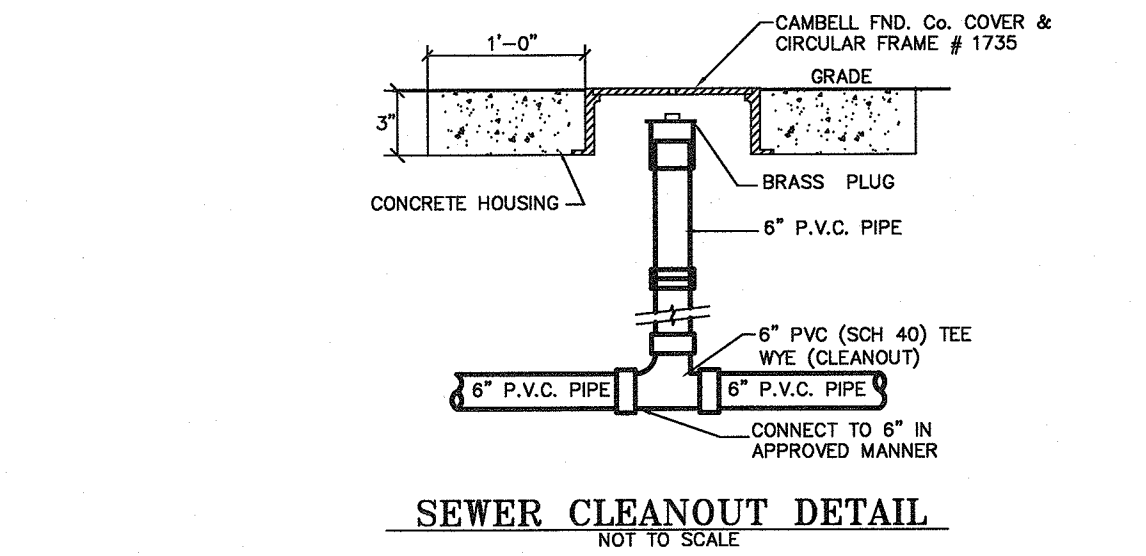
SEWER P.V.C. TRENCH SECTION  
NOT TO SCALE



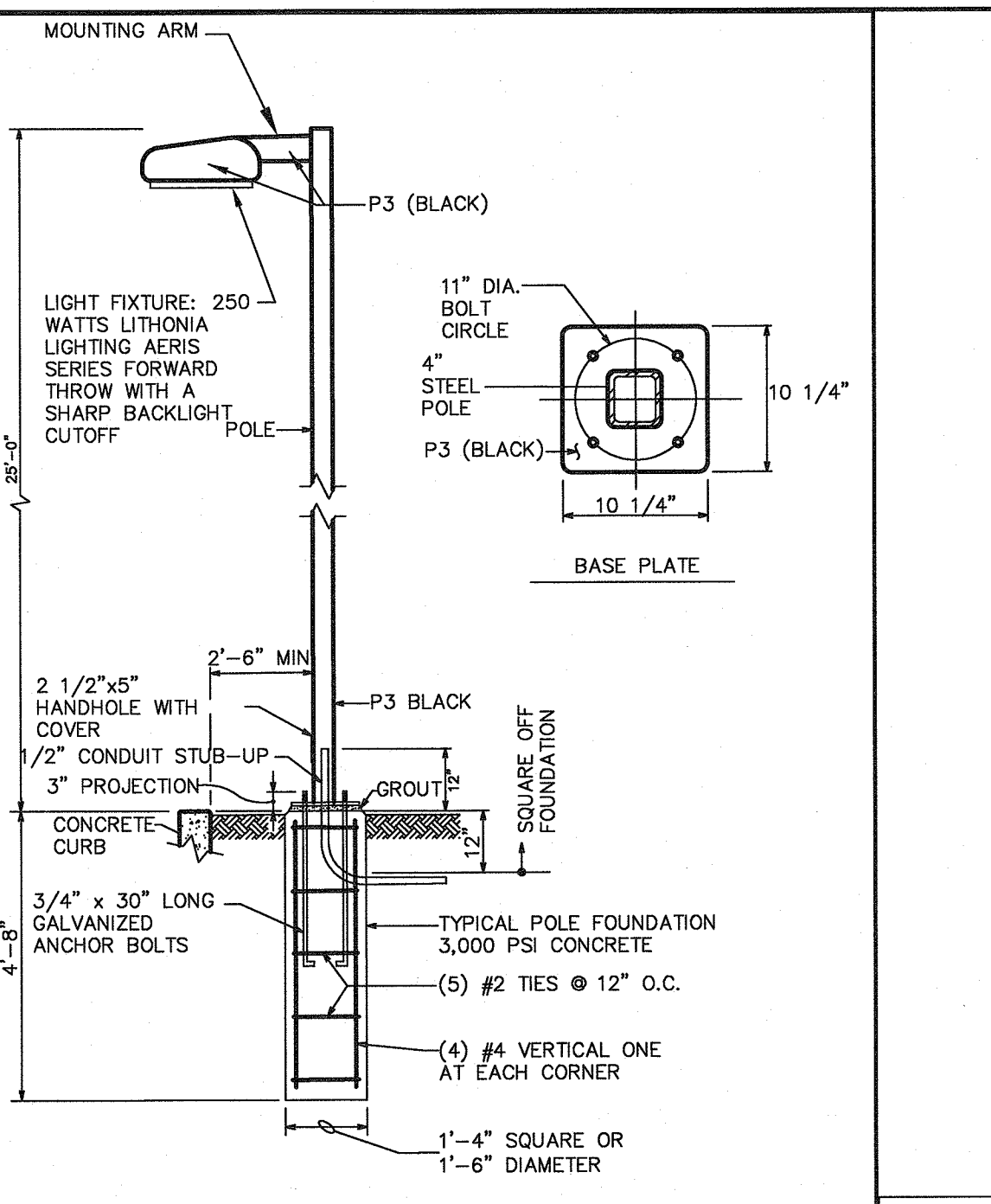
FENCE AT GRADE  
NOT TO SCALE



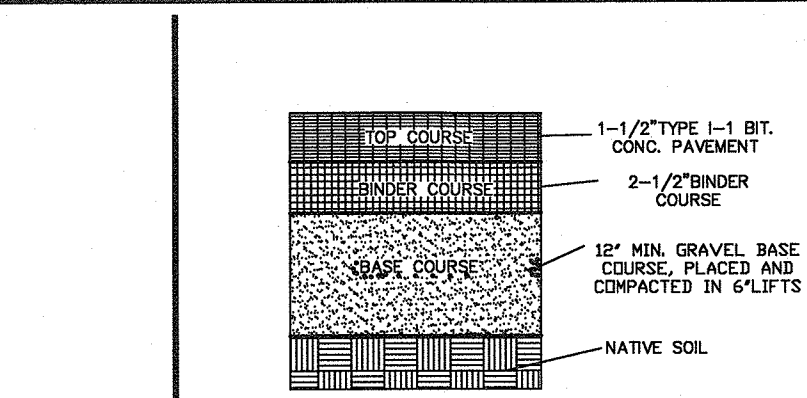
STABILIZED CONSTRUCTION ENTRANCE  
NOT TO SCALE



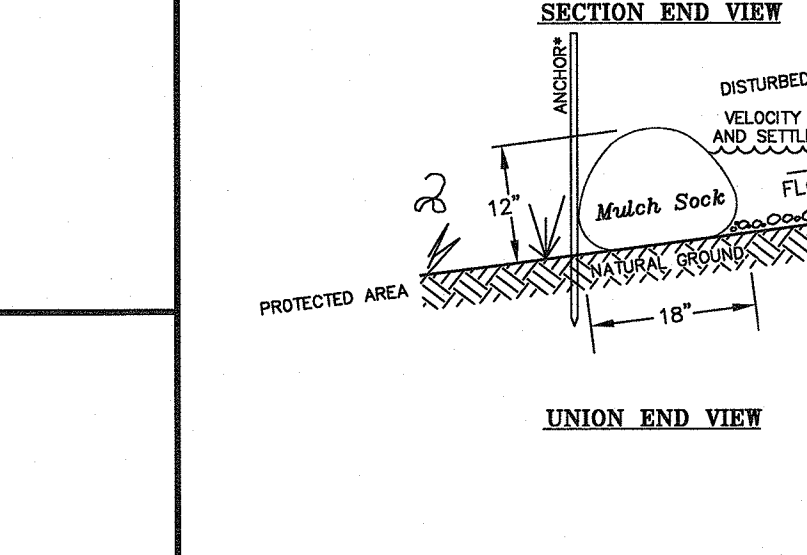
SEWER CLEANOUT DETAIL  
NOT TO SCALE



TYPICAL YARD LIGHT DETAIL  
NOT TO SCALE

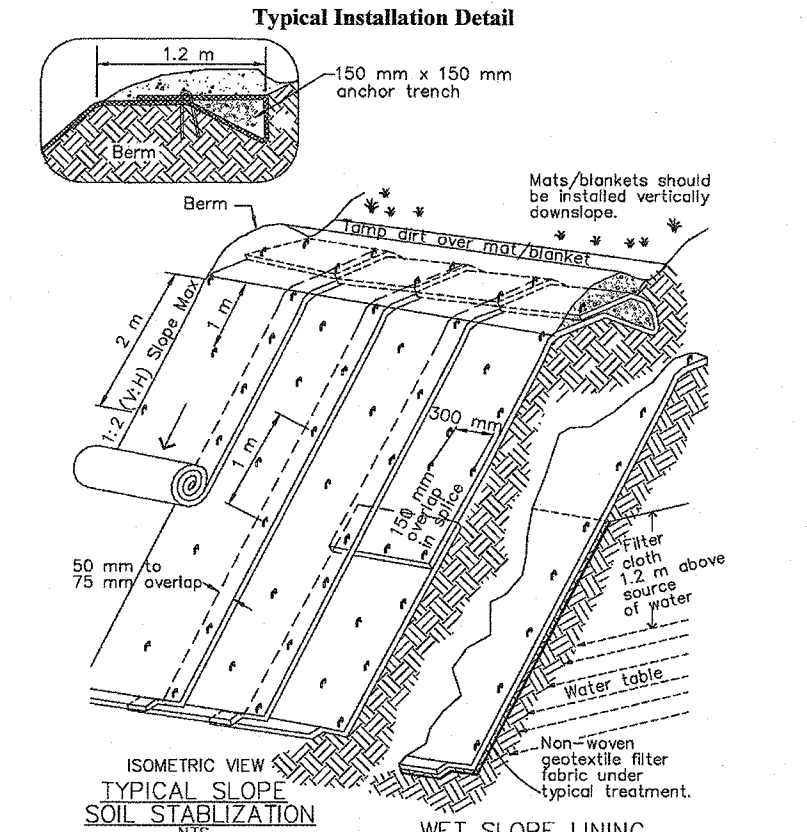


TYPICAL PAVEMENT SECTION  
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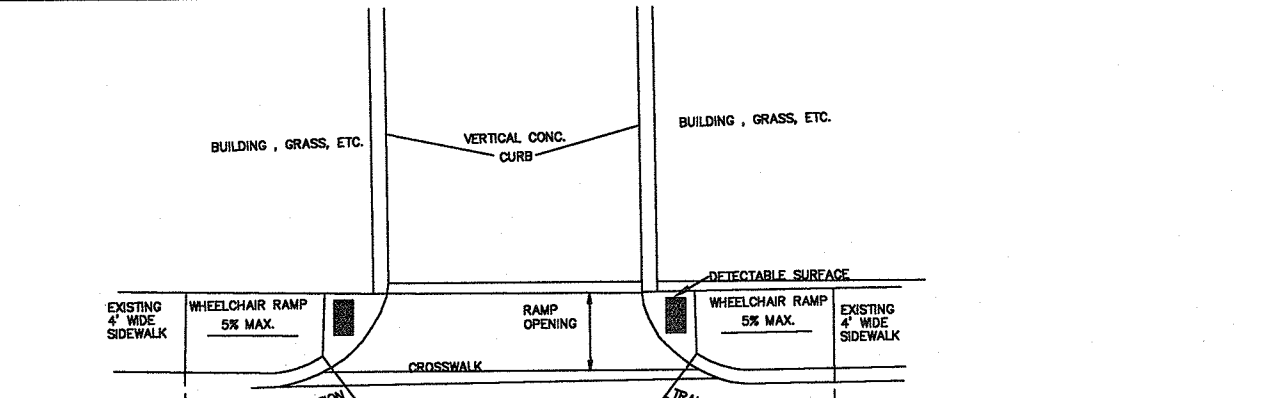


EROSION CONTROL BARRIER  
NOT TO SCALE

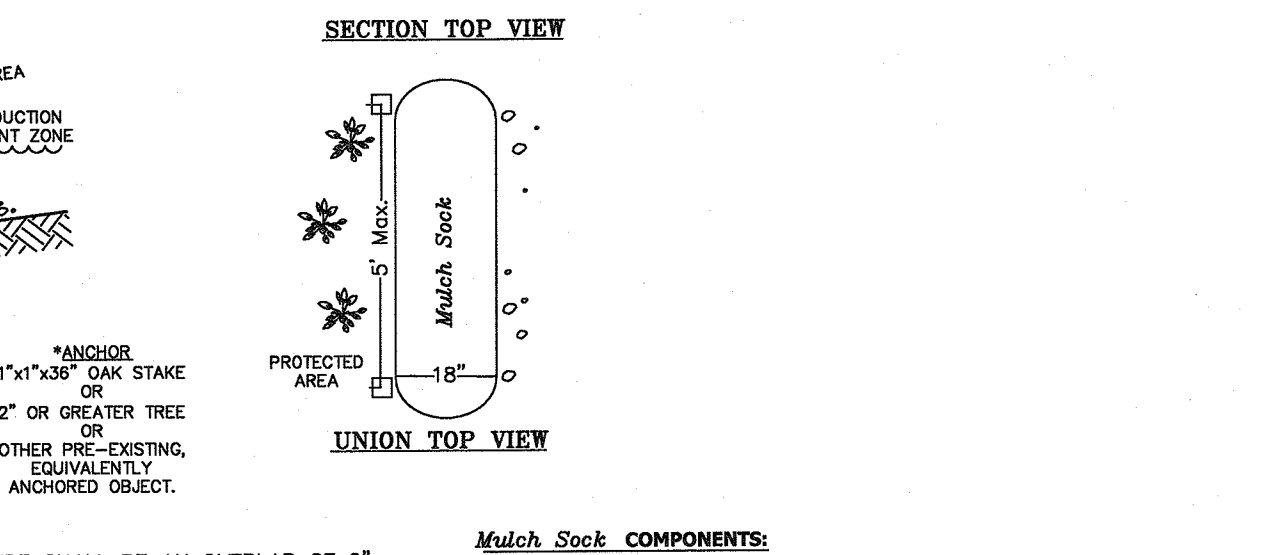
Geotextiles, Mats, Plastic Covers and Erosion Control Blankets



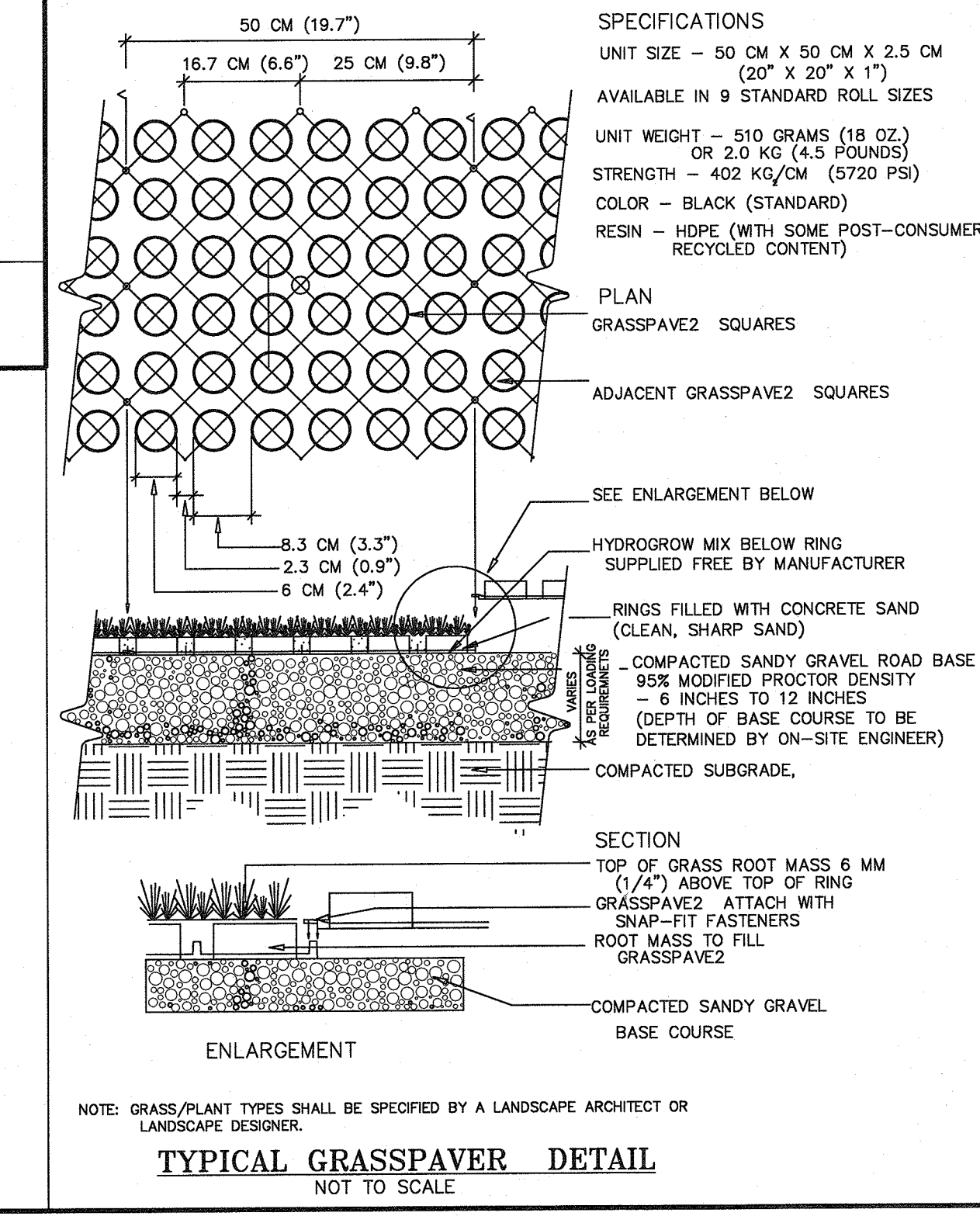
EROSION CONTROL BLANKET  
NOT TO SCALE



MASS HIGHWAY DRAWING NO. 107.6.0  
WHEELCHAIR RAMP FOR RIGHT OF WAY AREAS  
NOT TO SCALE



1" TYPE K WATERLINE TRENCH DETAIL  
N.T.S.



TYPICAL GRASSPAVER DETAIL  
NOT TO SCALE

JOB NO. F3988

APPROVED DATE:  
FRANKLIN PLANNING BOARD

DATE:

BEING A MAJORITY

PROFESSIONAL LAND SURVEYOR

PROFESSIONAL ENGINEER

APPLICANT  
JOEL D'ERRICO  
72 DEERVIEW WAY  
FRANKLIN, MA 02038

REVISIONS

DATE

REVISED

Guerriere & Halnon, Inc.

Engineering & Land Surveying

Ph. (508) 528-3221  
Fx. (508) 528-7921

55 WEST CENTRAL STREET  
FRANKLIN, MA 02038

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SITE PLAN FOR  
HIGHLAND VILLAGE  
278-300 WEST CENTRAL STREET  
IN  
FRANKLIN  
MASSACHUSETTS

CONSTRUCTION DETAILS

DATE  
SEPT. 26, 2017

SHEET  
11 OF 13

SCALE  
AS NOTED

JOB NO.  
F3988







**GENERAL**  
CULTEC RECHARGER® 902HD CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION OR CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF.

1. THE CHAMBERS SHALL BE MANUFACTURED IN THE U.S.A. BY CULTEC, INC. OF BROOKFIELD, CT.  
(203-775-4416 OR 1-800-428-5832)
2. THE CHAMBERS SHALL BE DESIGNED AND TESTED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS."
3. THE CHAMBER SHALL PROVIDE RESISTANCE TO THE LOADS AND LOAD FACTORS AS DEFINED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12.

3. THE CHAMBER SHALL BE STRUCTURAL FOAM INJECTION MOLDED OF BLUE VIRGIN HIGH MOLECULAR WEIGHT IMPACT-MODIFIED POLYPROPYLENE.
5. THE CHAMBER SHALL BE ARCHED IN SHAPE.
6. THE CHAMBER SHALL BE OPEN-BOTTOMED.
7. THE CHAMBER SHALL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS.
8. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC RECHARGER® 902HD SHALL BE 48 INCHES (1219 mm) TALL, 78 INCHES (1981 mm) WIDE AND 4.10 FEET (1.25 m) LONG. THE INSTALLED LENGTH OF A JOINED RECHARGER® 902HD SHALL BE 3.67 FEET (1.12 m).
9. MULTIPLE CHAMBERS MAY BE CONNECTED TO FORM DIFFERENT LENGTH ROWS. EACH ROW SHALL BEGIN AND END WITH A SEPARATELY FORMED CULTEC RECHARGER 902HD END CAP. MAXIMUM INLET OPENING ON THE END CAP IS 24 INCHES (600 mm).
10. THE CHAMBER SHALL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV™ FC-48 FEED CONNECTORS TO CREATE AN INTERNAL MANIFOLD. MAXIMUM ALLOWABLE PIPE SIZE IN THE SIDE PORTAL IS 11.5 INCHES (292 mm).
11. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV™ FC-48 FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 30 INCHES (406 mm) WIDE AND 49 INCHES (1245 mm) LONG.
12. THE NOMINAL STORAGE VOLUME OF THE RECHARGER® 902HD SHALL BE 17.66 FT³ / UNIT (1.641 m³) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A JOINED RECHARGER® 902HD SHALL BE 64.75 FT³ / UNIT (1.834 m³) - UNIT - WITHOUT STONE.
13. THE NOMINAL STORAGE VOLUME OF THE HVLV™ FC-48 FEED CONNECTOR SHALL BE 0.913 FT³ / FT (0.085 m³ / m) - WITHOUT STONE.
14. THE RECHARGER® 902HD CHAMBER SHALL HAVE TWENTY-FOUR DISCHARGE HOLES BORED INTO THE SIDEWALLS OF THE UNIT'S CORE TO PROMOTE LATERAL CONVEYANCE OF WATER.
15. THE RECHARGER® 902HD CHAMBER SHALL HAVE 7 CORRUGATIONS.
16. THE CHAMBER SHALL HAVE A RAISED INTEGRAL CAP AT THE TOP OF THE ARCH NEAR THE CENTER OF EACH UNIT TO BE USED AS AN OPTIONAL INSPECTION PORT OR CLEAN-OUT.
17. THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUPTION.
18. THE CHAMBER SHALL BE MANUFACTURED IN A FACILITY EMPLOYING CULTECS QUALITY CONTROL AND ASSURANCE PROCEDURES.
19. MAXIMUM ALLOWABLE COVER OVER THE TOP OF THE CHAMBER SHALL BE 8.3 FEET (2.53 m).

1. THE CULTEC RECHARGER® 902HD END CAP (REFERRED TO AS END CAP) SHALL BE MANUFACTURED IN THE U.S.A. BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. THE END CAP SHALL BE TWIN-SHEET THERMOFORMED OF BLACK VIRGIN HIGH MOLECULAR WEIGHT POLYETHYLENE.
3. THE END CAP SHALL BE JOINED AT THE BEGINNING AND END OF EACH ROW OF CHAMBERS USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS.
4. THE NOMINAL DIMENSIONS OF THE END CAP SHALL BE 48.5 INCHES (1231 mm) TALL, 78 INCHES (1982 mm) WIDE AND 9.7 INCHES (246 mm) LONG. WHEN JOINED WITH A RECHARGER 902HD CHAMBER, THE INSTALLED LENGTH OF THE END CAP SHALL BE 6.2 INCHES (157 mm).
5. MAXIMUM INLET OPENING ON THE END CAP IS 24 INCHES (600 mm).
6. THE END CAP SHALL PROVIDE RESISTANCE TO THE LOADS AND LOAD FACTORS AS DEFINED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12.

**GENERAL**  
CULTEC HVLV FC-48 FEED CONNECTORS ARE DESIGNED TO CREATE AN INTERNAL MANIFOLD FOR CULTEC RECHARGER  
MODEL 902HD STORMWATER CHAMBERS.

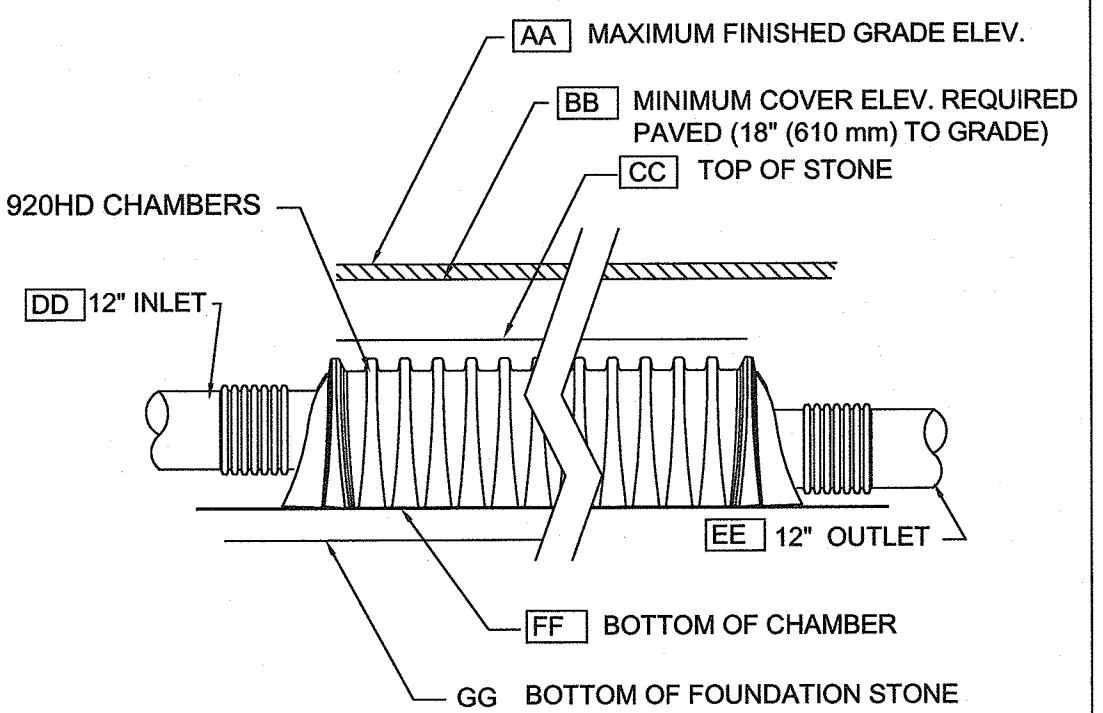
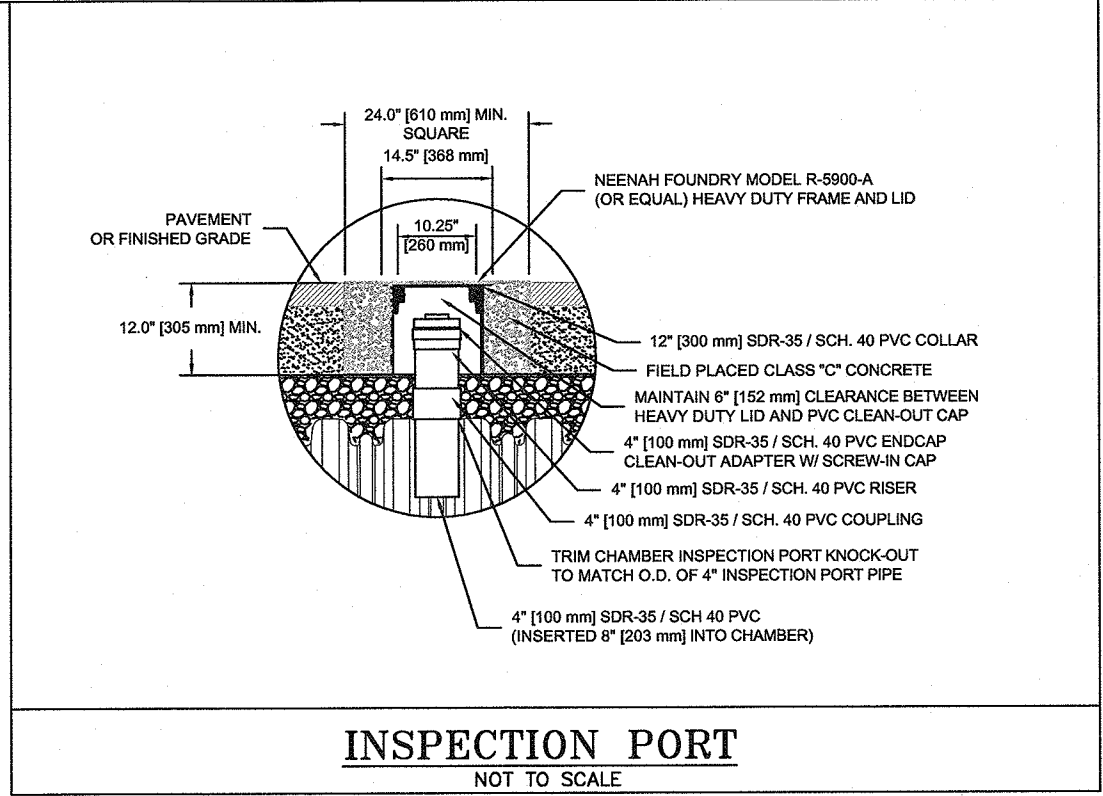
1. THE FEED CONNECTOR SHALL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. THE FEED CONNECTOR SHALL BE VACUUM THERMOFORMED OF BLACK HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE).
3. THE FEED CONNECTOR SHALL BE ARCHED IN SHAPE.
4. THE FEED CONNECTOR SHALL BE OPEN-BOTTOMED.
5. THE NOMINAL DIMENSIONS OF THE CULTEC HVLV FC-48 FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 16 INCHES (406 mm) WIDE AND 49 INCHES (1245 mm) LONG.
6. THE NOMINAL STORAGE VOLUME OF THE HVLV FC-48 FEED CONNECTOR SHALL BE 0.913 FT³ / FT (0.085 m³ / m) - WITHOUT STONE.
7. THE HVLV FC-48 FEED CONNECTOR SHALL HAVE 4 CORRUGATIONS.
8. THE HVLV FC-48 FEED CONNECTOR MUST BE FORMED AS A WHOLE UNIT HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT SHALL FIT INTO THE SIDE PORTALS OF THE CULTEC RECHARGER STORMWATER CHAMBER AND ACT AS CROSS FEED CONNECTIONS CREATING AN INTERNAL MANHOLE.
9. THE FEED CONNECTOR SHALL BE DESIGNED TO WITHSTAND ASHTO HS-25 DEFINED LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
10. THE FEED CONNECTOR SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY.

**GENERAL**  
CULTEC NO. 66™ WOVEN GEOTEXTILE IS UTILIZED AS AN UNDERLAYMENT TO PREVENT SCOURING CAUSED BY WATER MOVEMENT WITHIN THE CULTEC CHAMBERS AND FEED CONNECTORS UTILIZING THE CULTEC MANIFOLD FEATURE.

1. THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT, (203-775-4416 OR 1-800-428-5832)
2. THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
3. THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH OF 315 LBS (1.40KN) PER ASTM D4632 TESTING METHOD.
4. THE GEOTEXTILE SHALL HAVE A TENSILE ELONGATION RESISTANCE OF 15% PER ASTM D4632 TESTING METHOD.
5. THE GEOTEXTILE SHALL HAVE A MULLEN BURST RESISTANCE OF 600PSI (413K KPA) PER ASTM D3786 TESTING METHOD.
6. THE GEOTEXTILE SHALL HAVE A TEAR RESISTANCE OF 115 LBS (51.1 KN) PER ASTM D4533 TESTING METHOD.
7. THE GEOTEXTILE SHALL HAVE A PUNCTURE RESISTANCE OF 150 LBS (0.66 KN) PER ASTM D4633 TESTING METHOD.
8. THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE RESISTANCE OF 900 LBS (4.00 KN) PER ASTM D6241 TESTING METHOD.
9. THE GEOTEXTILE SHALL HAVE A UV RESISTANCE OF 70% @ 500 HRS. PER ASTM D4355 TESTING METHOD.
10. THE GEOTEXTILE SHALL HAVE A PERMITTIVITY RATING OF 0.05 SEC-1 PER ASTM D4491 TESTING METHOD.
11. THE GEOTEXTILE SHALL HAVE A WATER FLOW RATING OF 4 GPM/FT² (160 LPM/M²) PER ASTM D4491 TESTING METHOD.
12. THE GEOTEXTILE SHALL HAVE A PERCENT OPEN AREA OF <1% PER CW-02215 TESTING METHOD.
13. THE GEOTEXTILE SHALL HAVE AN APPARENT OPENING SIZE OF 40 US STD. SIEVE (0.425 MM) PER ASTM D4751 TESTING METHOD.
14. THE GEOTEXTILE SHALL CONSIST OF A 100% HIGH-TENACITY, SILT-FILM POLYPROPYLENE YARNS.

1. THE LIMITS OF ALL CLEARING, GRADING AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE THE LIMITS OF DISTURBANCE SHALL REMAIN TOTALLY UNDISTURBED.
2. INSPECT ALL SEDIMENT AND EROSION CONTROL MEASURES AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS AFTER EVERY RAINFALL EVENT.
3. MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES OR REPLACE AS REQUIRED TO ASSURE PROPER FUNCTION.
4. CONTRACTOR SHALL IMMEDIATELY REPAIR ANY AND ALL EROSION AND SEDIMENT CONTROLS FOUND TO BE FAULTY.
5. ANY AND ALL DEBRIS AND LITTER WHICH ACCUMULATES IN THE BASINS SHALL BE REMOVED WEEKLY.
6. THE CONTRACTOR SHALL IMPLEMENT ALL REASONABLE EROSION AND SEDIMENT CONTROLS PRIOR TO THE ACTUAL COMMENCEMENT OF CONSTRUCTION ACTIVITIES INCLUDING THE CLEARING AND/OR GRUBBING OF ANY PORTION OF THE PROPERTY. THESE MEASURES SHALL BE MAINTAINED IN EFFECT THROUGHOUT THE ENTIRE CONSTRUCTION PHASE, OR UNTIL THE SITE HAS BECOME STABILIZED WITH AN ADEQUATE VEGETATIVE COVER.
7. SEDIMENT BUILD UP BEHIND FILTERMITT SHALL BE MONITORED AND BE REMOVED WHENEVER IT HAS ACCUMULATED TO FOUR INCHES IN DEPTH.
8. CATCH BASINS SHALL BE PROTECTED WITH SILT FILTERS (SILT SACKS). INSPECT SEDIMENT FILTERS AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS AFTER RAINFALL THAT PRODUCES RUNOFF.
9. CLEAN OR REPLACE FILTERS WITHIN 24 HOURS OF INSPECTION WHEN SEDIMENT REACHES ONE HALF OF THE FILTER SACK DEPTH. CATCH BASINS SHALL BE PROTECTED BY SEDIMENT FILTERS THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE THOROUGHLY STABILIZED. SUMPS SHALL BE CLEANED WHENEVER SEDIMENT HAS ACCUMULATED TO A DEPTH OF 24 INCHES AND IMMEDIATELY FOLLOWING INSTALLATION OF PERMANENT PAVEMENT.
10. THE CONTRACTOR SHALL MAINTAIN AN ADEQUATE STOCKPILE OF EROSION CONTROL MATERIALS ON-SITE AT ALL TIMES FOR EMERGENCY OR ROUTINE REPLACEMENT AND SHALL INCLUDE MATERIALS TO REPAIR OR REPLACE SILT FENCE, MULCH SOCK, STONE FILTER DIKES OR ANY OTHER DEVICES PLANNED FOR USE DURING CONSTRUCTION.
11. THE CONTRACTOR IS TO INSPECT ALL CONTROLS NO LESS THAN WEEKLY, AND IN ANTICIPATION OF RAINFALL EVENTS EXPECTED TO EXCEED 1/2 INCH IN DEPTH. ALL DEFICIENCIES NOTED DURING SAID INSPECTION SHALL BE REPAIRED IMMEDIATELY AND IN NO CASE SHALL A DEFICIENCY BE ALLOWED TO GO UNCORRECTED DURING A RAINFALL EVENT. THE EROSION CONTROL DEVICES SHALL BE MAINTAINED, REINFORCED, OR REPLACED IF NECESSARY. ALL ACCUMULATED SEDIMENTS AND OTHER MATERIALS COLLECTED
12. BY THE SEDIMENTATION CONTROL SYSTEMS SHALL BE REMOVED AS NECESSARY TO INSURE PROPER FUNCTION OF SYSTEMS AND DISPOSED OF IN A MANNER THAT IS CONSISTENT WITH THE INTENT OF THIS PLAN, IN AN UPLAND AREA.
13. TEMPORARY EARTH OR STONE DIKES, DRAINAGE SWALES AND/OR TEMPORARY SLOPE DRAINS SHALL BE INSTALLED WHERE OFF-SITE OR ON-SITE RUNOFF IS SUFFICIENT ENOUGH SUCH THAT IT WILL BE NECESSARY TO DIVERT THE FLOW AROUND THE SITE OR PREVENT EROSION WITHIN THE LIMITS OF WORK.
14. STORM DRAIN INLET PROTECTION SHALL BE USED FOR ALL EXISTING AND PROPOSED CATCH BASINS IN THE PROJECT AREA. PRIOR TO COMPLETION OF THE PROJECT, ALL CATCH BASINS WITHIN THE PROJECT AREA SHALL BE CLEANED.
15. ALL DISTURBED EARTH SLOPES AREA TO BE STABILIZED WITH PERMANENT VEGETATIVE COVER, TO BE ESTABLISHED AS SOON AS POSSIBLE. DISTURBED AREAS THAT ARE NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL RECEIVE A PERMANENT OR TEMPORARY VEGETATIVE COVER AS SOON AS FINAL CONTOURS ARE ESTABLISHED. TEMPORARY VEGETATIVE COVER IS TO BE ESTABLISHED ON ALL DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES WILL NOT REQUIRE ADDITIONAL DISTURBANCE FOR PERIOD OF 30 DAYS OR MORE. IF THE SEASON PREVENTS THE ESTABLISHMENT OF VEGETATIVE COVER, DISTURBED AREAS SHALL BE MULCHED AND THEN SEEDED AS SOON AS WEATHER CONDITIONS ALLOW.
16. THERE SHALL BE NO DIRECT DISCHARGE OF DEWATERING OPERATIONS INTO ANY DRAINAGE SYSTEM UNLESS THIS DISCHARGE IS CLEAN AND FREE OF SETTLEABLE SOLIDS. ANY DEWATERING DISCHARGE CONTAINING SETTLEABLE SOLIDS (SEDIMENTS) SHALL BE PASSED THROUGH A SEDIMENTATION CONTROL DEVICE(FILTER BAG) TO REMOVE THESE SOLIDS. THE CONTRACTOR IS TO MAINTAIN SAID SEDIMENT CONTROL DEVICE THROUGHOUT THE ENTIRE DEWATERING OPERATION AND REPAIR DEFICIENCIES IMMEDIATELY.
17. SOIL STOCKPILE AREAS FOR CONSTRUCTION MATERIALS SHALL BE LOCATED OUTSIDE WETLAND AREAS AND ASSOCIATED BUFFERS.
18. ALL PLANTINGS SHALL BE ACCOMPLISHED BY THE CONTRACTOR AS EARLY AS THE POSSIBLE UPON COMPLETION OF GRADING AND CONSTRUCTION.
19. ALL PLANTINGS SHALL BE WATERED AND MAINTAINED BY THE CONTRACTOR TO ENSURE SURVIVAL.
20. EROSION CONTROL SHALL REMAIN IN PLACE UNTIL THE CERTIFICATE OF COMPLETION IS ISSUED

1. INSTALL EROSION CONTROL BARRIERS AND HAVE ENGINEER INSPECT AND PREPARE LETTER.
2. RAZE THE EXISTING BUILDINGS, PAVEMENT, WALKWAYS, ETC. CLEAR SITE OF ALL TREES DESIGNATED TO BE REMOVED.
3. CONSTRUCT A TEMPORARY BASIN TO COLLECT RUNOFF DURING CONSTRUCTION.
4. STOCKPILE LOAM, OR REMOVE LOAM.
5. INSTALL PIPES FOR DRAINAGE SYSTEMS. INSTALL DISCHARGE POINT ON EACH SYSTEM.
6. BRING SITE TO SUB-GRADE.
7. ALL SLOPES ALONG THE PROPERTY LINES SHALL BE MULCHED TEMPORARILY, IF DISTURBED.
8. TEMPORARY STONE ( $3/4"$  -  $1\frac{1}{2}"$ ) SHALL BE PLACED AT THE PROJECT ENTRANCE WHEN ACCESSING EXISTING PAVEMENT. SWEETING IS REQUIRED IF FINES ARE OBSERVED IN THE PARKING LOT OR PUBLIC WAYS.
9. ALL DISTURBED AREAS NOT TREATED WITH PERMANENT LOAM AND SEED SHALL BE COVERED WITH MULCH, OR OTHER EROSION CONTROL DEVICE.
10. ALL CONSTRUCTION GRADES IN THE INTERIM SHALL BE SLOPED TO FLOW INTO THE TEMPORARY BASIN, WHERE POSSIBLE.
11. THE SITE MITIGATION OF EROSION IN THOSE AREAS TO BE LANDSCAPED OR MULCHED SHALL BE TO INSTALL AS SOON AS POSSIBLE.
12. CLEAN ALL SEDIMENT OUT OF TEMPORARY BASIN AND INSTALL CLEAN FILT PER PLAN SPECIFICATIONS PRIOR TO FINAL GRADING AND SURFACE STABILIZATION.
13. THE SUBSURFACE DRAINAGE SYSTEM SHALL BE INSTALLED PRIOR TO PAVEMENT INSTALLATION PROPER FILTER/FABRIC SHALL BE PLACED AT INLETS TO KEEP THE STORM DRAINAGE CLEAR OF DEBRIS.
14. ONCE THE DRAINAGE IS INSTALLED, THE PERMANENT MULCH AND LANDSCAPING SHALL BE INSTALLED.
15. SEDIMENT CONTROL SHALL REMAIN IN PLACE UNTIL THE SITE IS STABILIZED.
16. CLEAN ALL ON SITE CATCH BASINS, MANHOLES, PIPING, TEMPORARY BASIN, AND INFILTRATION CHAMBERS. INSTALL SILT BAGS AT EACH CATCH BASIN.
17. KEEP SITE SWEEP AND MAINTAINED PER STORMWATER MANAGEMENT PLAN.



		RECH-1	RECH-2
AA	MAXIMUM FINISHED GRADE ELEV.	268.21	265.70
BB	MINIMUM COVER ELEV.	265.60	261.13
CC	TOP OF STONE	261.45	257.50
DD	12" INLET	257.68	254.46
EE	12" OUTLET	256.45	252.50
FF	BOTTOM OF CHAMBER	256.45	252.50
GG	BOTTOM OF FOUNDATION STONE	255.70	251.75

MIN. 95% COMPACTED FILL

RECHARGER 920HD HEAVY DUTY CHAMBER

8.3' [2.53 m] MAX. BURIAL DEPTH

1-2 INCH [50-51 mm] DIA. WASHED, CRUSHED STONE SURROUNDING CHAMBERS

1/4" FC-48 FEED CONNECTOR WHERE SPECIFIED

CUTLAC NO. 410 NON-WOVEN GEOTEXTILE AROUND STONE. TOP AND SIDES MANDATORY. BOTTOM PER ENGINEER'S DESIGN PREFERENCE

PAVEMENT OR FINISHED GRADE

12.0' [305 mm] MIN. FOR PAVED  
18.0' [457 mm] MIN. FOR UNPAVED

12.0' [305 mm] MIN.

48.0' [1219 mm]

9.0' [229 mm] MIN.

12.0' [305 mm] MIN.

78.0' [1882 mm]

87.0' [2211 mm] MIN. CENTER TO CENTER

THE DESIGN ENGINEER IS RESPONSIBLE FOR ENSURING THAT THE REQUIRED BEARING CAPACITY OF SUB-GRADE SOILS HAS BEEN MET

CUTLAC NO. 88 WOVEN GEOTEXTILE (FOR SCOUR PROTECTION) TO BE PLACED BENEATH INTERNAL MANIFOLD FEATURE AND BENEATH ALL INLET/OUTLET PIPES

1-2 INCH [50-51 mm] WASHED, CRUSHED STONE SURROUNDING CHAMBERS

PAVEMENT OR FINISHED GRADE

CUTLAC NO. 410 NON-WOVEN GEOTEXTILE AROUND STONE. TOP AND SIDES MANDATORY. BOTTOM PER ENGINEER'S DESIGN PREFERENCE

MINIMUM 95% COMPACTED FILL

PIPE DESIGN AND ELEVATION PER ENGINEER. PIPE TO BE INSERTED 8.0' [203 mm] MIN. INTO CHAMBER

OPTIONAL TRAFFIC RATED INSPECTION PORT (SEE DETAIL 01)

24" [600 mm] MAX. INLET

SIDE PORTAL TO BE CUT IN FIELD TO ALLOW FOR 1/4" FC-48 FEED CONNECTOR AS NEEDED. CUT SHALL BE WITHIN 1/4" [6 mm] TOLERANCE OF SIDE PORTAL TRIM GUIDELINE

RECHARGER 920HD HEAVY DUTY CHAMBER

CUTLAC NO. 88 WOVEN GEOTEXTILE (FOR SCOUR PROTECTION) TO BE PLACED BENEATH INTERNAL MANIFOLD FEATURE AND BENEATH ALL INLET/OUTLET PIPES

CHAMBERS SHALL BE DESIGNED AND TESTED IN ACCORDANCE WITH ASTM F2797 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS"

THE DESIGN ENGINEER IS RESPONSIBLE FOR ENSURING THAT THE REQUIRED BEARING CAPACITY OF SUB-GRADE SOILS HAS BEEN MET

PAVEMENT OR FINISHED GRADE

PAVEMENT SUB-BASE (WHEN APPLICABLE)

MINIMUM 95% COMPACTED FILL

CUTLAC NO. 410 NON-WOVEN GEOTEXTILE AROUND STONE. TOP AND SIDES MANDATORY. BOTTOM PER ENGINEER'S DESIGN PREFERENCE

CUTLAC 1/4" FC-48 FEED CONNECTOR WHERE SPECIFIED

12.0 INCH [305 mm] MIN. DEPTH OF 1-2 INCH [50-51 mm] WASHED CRUSHED STONE ABOVE CHAMBERS

CUTLAC RECHARGER 920HD HEAVY DUTY CHAMBER

12.0 INCH [305 mm] MIN. WIDTH OF 1-2 INCH [50-51 mm] WASHED CRUSHED STONE BORDER SURROUNDING ALL CHAMBERS

9.0 INCH [229 mm] MIN. DEPTH OF 1-2 INCH [50-51 mm] WASHED CRUSHED STONE BENEATH CHAMBERS

PIPE DESIGN AND ELEVATION TYPED BY ENGINEER. PIPE TO BE INSERTED 8.0 INCHES [204 mm] MIN. INTO CHAMBER. MAX. 24 INCHES [600 mm] (3" ALLOWED IN EXCESS)

12.0' [305 mm] MIN.

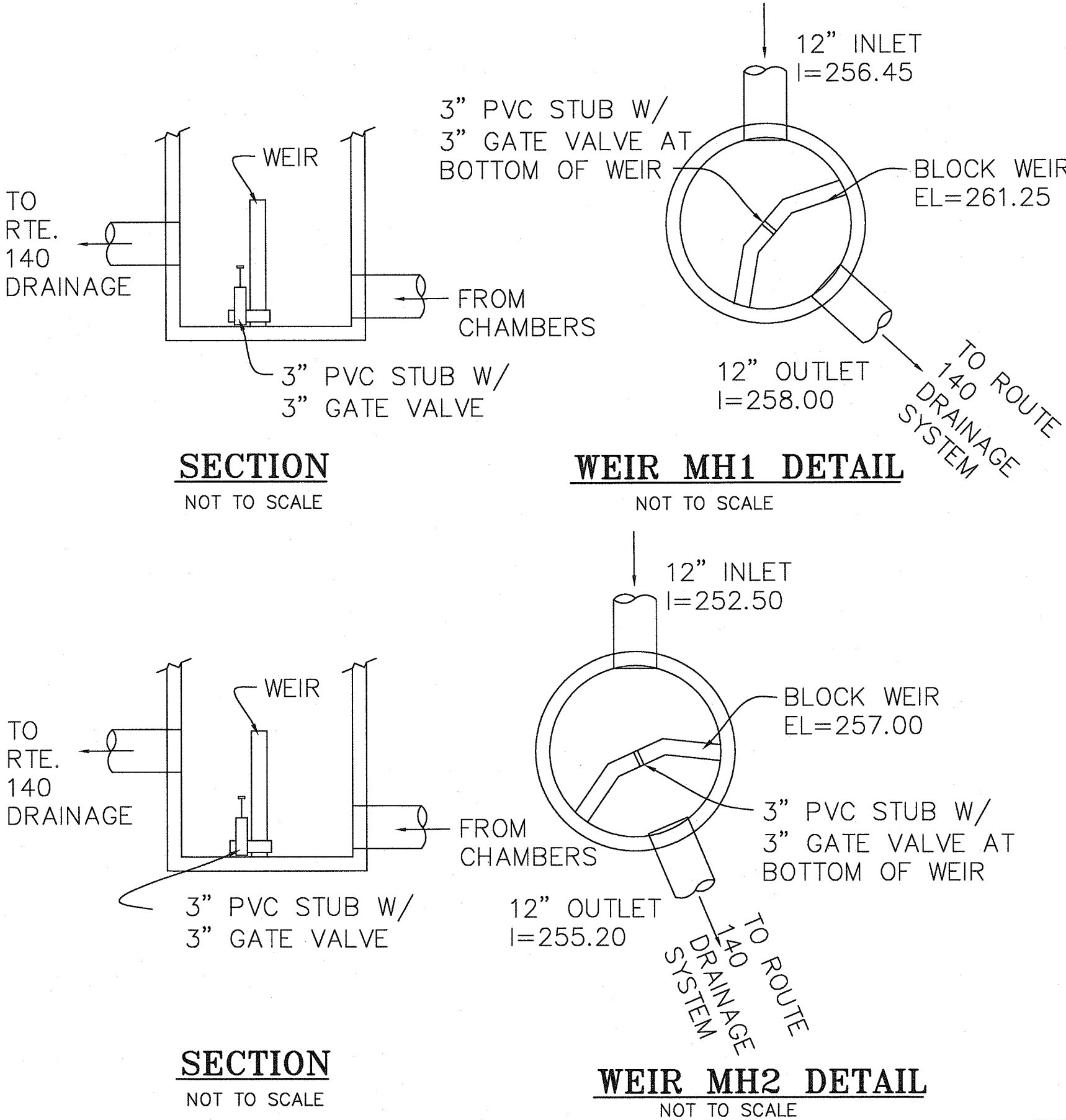
CUTLAC NO. 88 WOVEN GEOTEXTILE PLACED BENEATH INLET PIPES

6.0' [1.8 m] MIN.

CUTLAC NO. 88 WOVEN GEOTEXTILE PLACED BENEATH FEED CONNECTORS

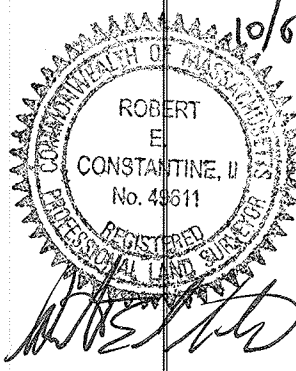
2920HD XLHD RECHARGER INFILTRATION CHAMBERS

NOT TO SCALE



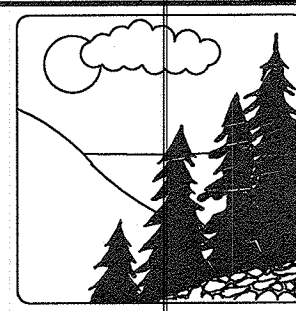
APPROVED DATE: _____  
FRANKLIN PLANNING BOARD

DATE: _____  
BEING A MAJORITY _____



APPLICANT  
JOEL D'ERRICO  
72 DEERVIEW WAY  
FRANKLIN, MA 02038

DATE	REVISED
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SITE PLAN FOR  
HIGHLAND VILLAGE  
278-300 WEST CENTRAL  
STREET  
IN  
FRANKLIN  
MASSACHUSETTS

## CONSTRUCTION DETAILS

DATE SEPT. 26, 2017	SCALE AS NOTED
SHEET 13 OF 13	JOB NO. F3988