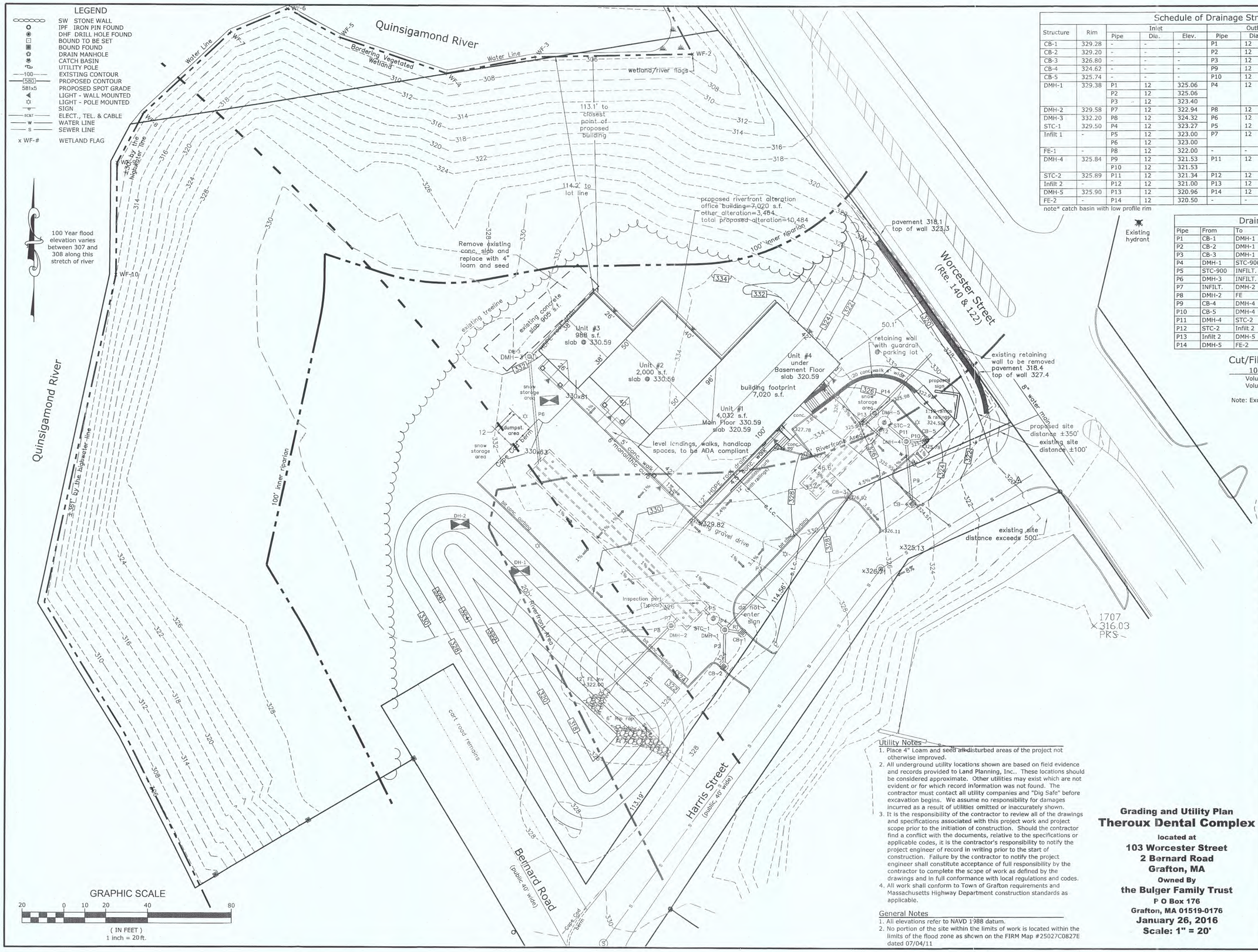

Schedule of Drainage Structures

Structure	Rim	Inlet Pipe	Inlet Dia.	Inlet Elev.	Outlet Pipe	Outlet Dia.	Outlet Elev.	Description of Structure
CB-1	329.28	-	-	-	P1	12	325.28	Precast conc catch basin
CB-2	329.20	-	-	-	P2	12	325.20	Precast conc catch basin
CB-3	326.80	-	-	-	P3	12	323.97	Precast conc catch basin*
CB-4	324.62	-	-	-	P9	12	321.79	Precast conc catch basin
CB-5	325.74	-	-	-	P10	12	321.74	Precast conc catch basin
DMH-1	329.38	P1	12	325.06	P4	12	323.30	Precast conc manhole
		P2	12	325.06				
		P3	12	323.40				
DMH-2	329.58	P7	12	322.94	P8	12	322.31	Precast conc manhole
DMH-3	332.20	P8	12	324.32	P6	12	324.22	Precast conc manhole
STC-1	329.50	P4	12	323.27	P5	12	323.19	Stormceptor STC900
Infilt 1	-	P5	12	323.00	P7	12	323.00	Cultec infiltration system
		P6	12	323.00				
FE-1	-	P8	12	322.00	-	-	-	Outlet at retaining wall
DMH-4	325.84	P9	12	321.53	P11	12	321.43	Precast conc manhole
		P10	12	321.53				
STC-2	325.89	P11	12	321.34	P12	12	321.26	Stormceptor STC900
Infilt 2	-	P12	12	321.00	P13	12	321.00	Cultec infiltration system
DMH-5	325.90	P13	12	320.96	P14	12	320.86	Precast conc manhole
FE-2	-	P14	12	320.50	-	-	-	Outlet at front lawn

note* catch basin with low profile rim

Drainage Pipe Schedule

Pipe	From	To	Length	Slope	Dia.	Description
P1	CB-1	DMH-1	4.5	5.00%	12"	HDPE
P2	CB-2	DMH-1	13.6	1.14%	12"	HDPE
P3	CB-3	DMH-1	83.1	0.80%	12"	HDPE
P4	DMH-1	STC-900	2.8	1.00%	12"	HDPE
P5	STC-900	INFILT.	3.3	2.07%	12"	HDPE
P6	DMH-3	INFILT.	40.7	3.00%	12"	HDPE
P7	INFILT.	DMH-2	2.9	2.00%	12"	HDPE
P8	DMH-2	FE	28.7	1.08%	12"	HDPE
P9	CB-4	DMH-4	26.0	1.00%	12"	HDPE
P10	CB-5	DMH-4	4.9	4.29%	12"	HDPE
P11	DMH-4	STC-2	8.8	1.00%	12"	HDPE
P12	STC-2	Infilt 2	4.3	6.09%	12"	HDPE
P13	Infilt 2	DMH-5	4.3	1.00%	12"	HDPE
P14	DMH-5	FE-2	24.3	1.47%	12"	HDPE

Cut/Fill Volumes (Approximate)

103 Worcester Street

Volume of cut = 4,660 yd³
Volume of fill = 160 yd³
Net cut = 4,500 yd³
Note: Excess material to be removed from site

Utility Notes

1. Place 4" Loam and seed all disturbed areas of the project not otherwise improved.
2. All underground utility locations shown are based on field evidence and records provided to Land Planning, Inc.. These locations should be considered approximate. Other utilities may exist which are not evident or for which record information was not found. The contractor must contact all utility companies and "Dig Safe" before excavation begins. We assume no responsibility for damages incurred as a result of utilities omitted or inaccurately shown.
3. It is the responsibility of the contractor to review all of the drawings and specifications associated with this project work and project scope prior to the initiation of construction. Should the contractor find a conflict with the documents, relative to the specifications or applicable codes, it is the contractor's responsibility to notify the project engineer of record in writing prior to the start of construction. Failure by the contractor to notify the project engineer shall constitute acceptance of full responsibility by the contractor to complete the scope of work as defined by the drawings and in full conformance with local regulations and codes.
4. All work shall conform to Town of Grafton requirements and Massachusetts Highway Department construction standards as applicable.

General Notes

1. All elevations refer to NAVD 1988 datum.
2. No portion of the site within the limits of work is located within the limits of the flood zone as shown on the FIRM Map #25027C0827E dated 07/04/11

Grading and Utility Plan

Theroux Dental Complex

located at

103 Worcester Street
2 Bernard Road
Grafton, MA

Owned By

the Bulger Family Trust
P O Box 176
Grafton, MA 01519-0176

January 26, 2016
Scale: 1" = 20'

COMMONWEALTH OF MASSACHUSETTS
NORMAN G. HILL
CIVIL
No. 31887
REGISTERED PROFESSIONAL ENGINEER

2-29-16

DATE: 2/3/16
NORMAN G. HILL, PE #31887

REVISIONS			
No.	Date	Design	Checked
1	2/2/16	BDH	NGH
2	2/29/16	BDH	NGH
3			
4			
5			
6			

Field By:	NH/SB	12/15
Designed By:	BDH	1/16
Drawn By:	BDH	1/16
Checked By:	NGH	1/16

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Date: Jan. 26, 2016	Sheet No. 4
Job No. G8723	