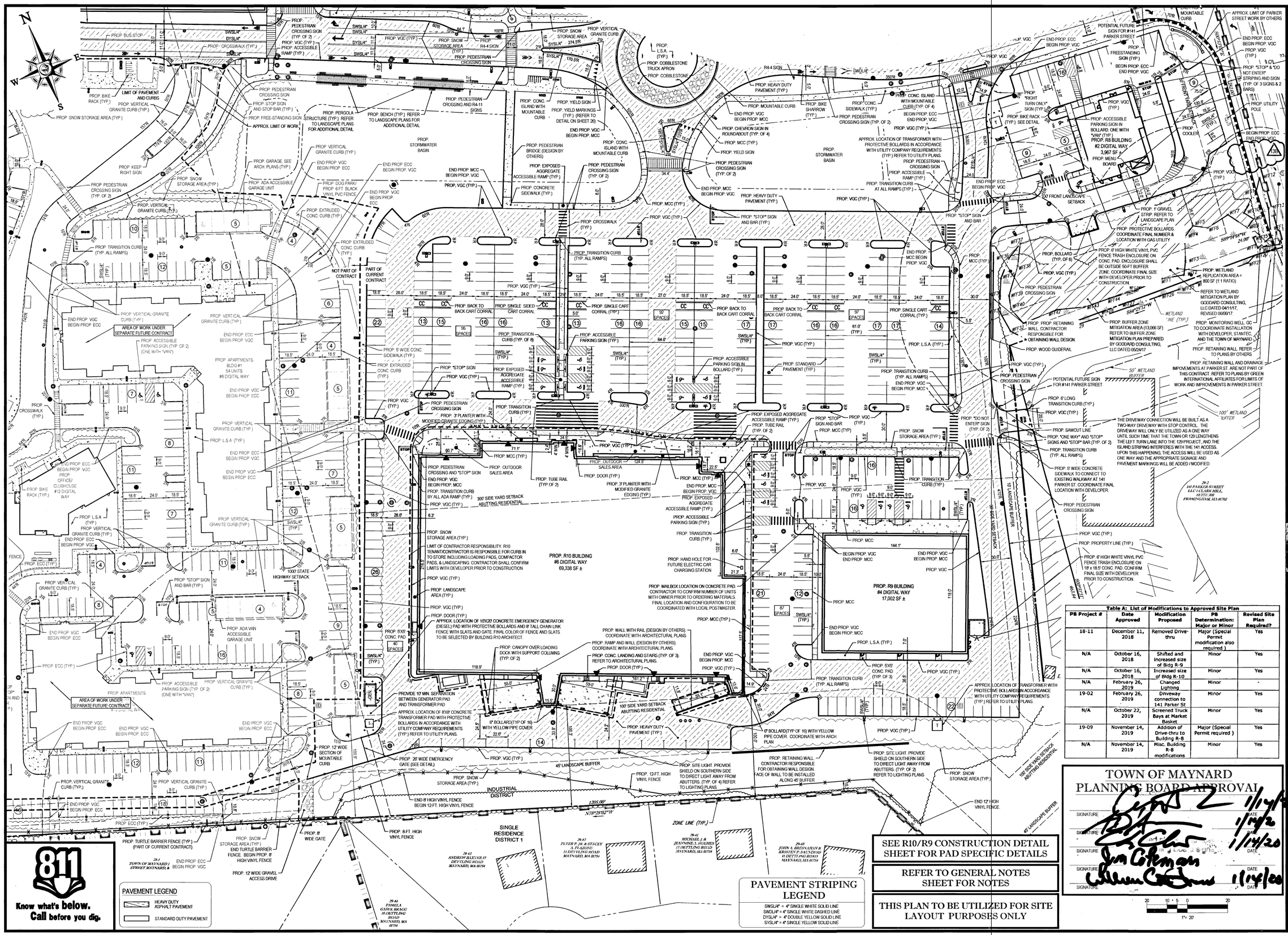

SEE R10/R9 CONSTRUCTION DETAIL SHEET FOR PAD SPECIFIC DETAILS

REFER TO GENERAL NOTES SHEET FOR NOTES

THIS PLAN TO BE UTILIZED FOR SITE LAYOUT PURPOSES ONLY

Table A: List of Modifications to Approved Site Plan

PB Project #	Date Approved	Modification Proposed	PB Determination: Major or Minor	Revised Site Plan Required?
18-11	December 11, 2018	Removed Drive-thru	Major (Special Permit modification also required)	Yes
N/A	October 16, 2018	Shifted and increased size of Bldg R-9	Minor	Yes
N/A	October 16, 2018	Increased size of Bldg R-10	Minor	Yes
N/A	February 26, 2019	Changed Lighting	Minor	-
19-02	February 26, 2019	Drveway connection to 141 Parker St	Minor	Yes
N/A	October 22, 2019	Screened Truck Bays at Market Basket	Minor	Yes
19-09	November 14, 2019	Addition of Drive-thru to Building R-8	Major (Special Permit required)	Yes
N/A	November 14, 2019	Misc. Building R-8 modifications	Minor	Yes

TOWN OF MAYNARD
PLANNING BOARD APPROVAL

SIGNATURE	DATE
	1/14/20
	1/14/20
	1/14/20
	1/14/20

1" = 20'

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- NEW YORK METRO
- NEW JERSEY
- PHILADELPHIA, PA
- RALEIGH, NC
- CHARLOTTE, NC
- ATLANTA, GA
- TAMPA, FL
- ORLANDO, FLORIDA
- DALLAS, TX
- LEHIGH VALLEY, PA
- REHOBOTH BEACH, DE
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REVISIONS

REV	DATE	COMMENT	BY
1	03/21/17	REMOVE CARRIAGE BLDG. (SHEETS 8-12 ONLY)	CFD
2	06/02/17	REV. PER TOWN COMMENTS	CFD
3	06/15/17	DRAINAGE REVISIONS (SHEETS 13-16 ONLY)	GJZ
4	06/28/17	DRAINAGE REVISIONS (FULL SET)	AWP
5	07/26/17	REV. PER TOWN COMMENTS	AWP
6	09/10/17	PEER REVIEW COMMENTS	CFD
7	09/18/17	CONSTRUCTION DOCUMENTS	AWP
8	11/06/18	REVISED R9 / R10 PAD	CFD
9	12/10/18	REV. PER TOWN COMMENTS	CFD
10	04/23/19	REVISED R9 / R10 PAD	CMC
10A	05/13/19	REVISED PER TOWN COMMENTS	CFD
10B	07/25/19	REVISED PER TOWN COMMENTS	CMC
13	10/04/19	REVISED R4-R8 PAD	BPB
13A	11/12/19	REVISED MARKET BASKET LOADING AREA	BPB
13B	11/13/19	REVISED R8 PAD PER PB COMMENTS	BPB

PRELIMINARY

PROJECT No.:	W161189
DRAWN BY:	AWP/CFD
CHECKED BY:	NEM/JAK
DATE:	02/15/2017
SCALE:	AS NOTED
CAD I.D.:	W161189SS13B

PROJECT:
SITE DEVELOPMENT PLANS
—FOR—
CAPITAL GROUP PROPERTIES
MAYNARD CROSSING
LOCATION OF SITE
MAP #25 & LOTS #152 & 152-1
129 PARKER STREET (ROUTE 27)
TOWN OF MAYNARD
MIDDLESEX COUNTY
MASSACHUSETTS

BOHLER ENGINEERING
352 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
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J.A. KUCICH
JOHN A. KUCICH
PROFESSIONAL ENGINEER
CIVIL

SHEET TITLE:
SITE PLAN "D"

SHEET NUMBER:
11
OF 36

REV 13 - 08/22/2019

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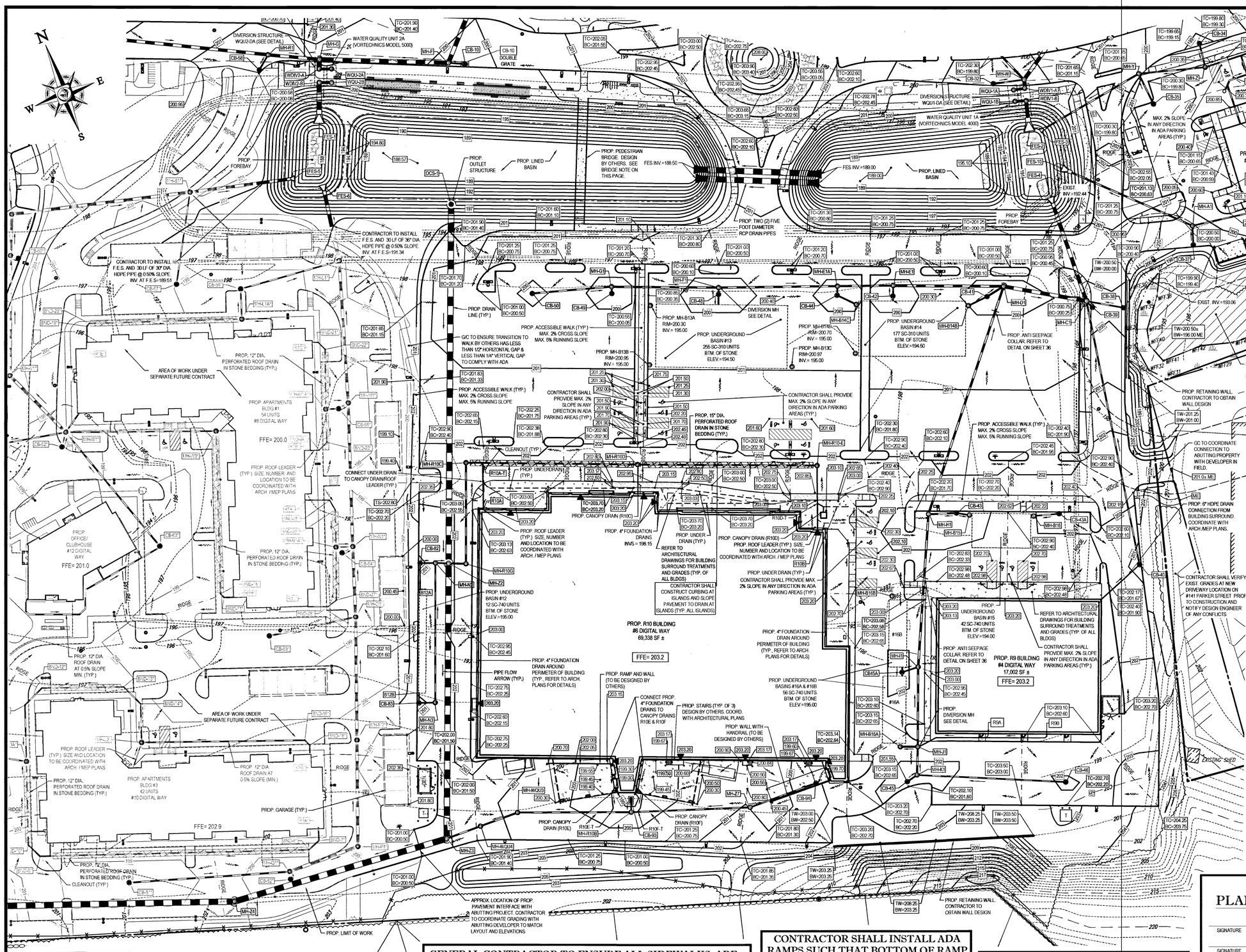

BRIDGE NOTE:
DESIGN SHALL INCLUDE TREATMENT AT PROPOSED PILE LOCATIONS AS NEEDED TO ENSURE BASIN LINING IS PROPERLY MAINTAINED AND BASIN RETAINS WATER AS DESIGNED. COORDINATE FINAL DESIGN WITH DEVELOPER

BASIN NOTE:
EXISTING BASIN LINER TO BE REMOVED AND REPLACED AS NECESSARY TO ACCOMODATE PROPOSED STORMWATER MODIFICATIONS. PROPER PENETRATIONS SHALL BE MADE FOR PIPE INSTALLATION SO BASIN IS WATER-TIGHT AND RETAINS WATER AS DESIGNED.

REFER TO ARCH. PLANS FOR DETAIL OF BUILDING SURROUND INCLUDING SIDEWALKS AND ADA RAMPS. COORDINATE CONNECTION OF ADA RAMPS TO ACCESSIBLE SPACES AND MAINTAIN 2% MAXIMUM SLOPE IN ALL DIRECTIONS IN ACCESSIBLE PARKING SPACE AND ACCESS AISLE AREAS. REFER TO ADA NOTES ON SHEET 2.

TOWN OF MAYNARD PLANNING BOARD APPROVAL

SIGNATURE	DATE
SIGNATURE	DATE
SIGNATURE	DATE
SIGNATURE	DATE
SIGNATURE	DATE

Approved plans - see cover sheet for Planning Board signatures.
Dated 5.14.20

20 10 5 0 20
1"= 20'

811 Know what's below. Call before you dig.

FOR PIPE WITHIN 10 FT. OF BUILDING, PIPE MATERIAL SHALL COMPLY WITH APPLICABLE BUILDING AND PLUMBING CODES. CONTRACTOR TO VERIFY WITH LOCAL OFFICIALS.

GENERAL CONTRACTOR TO ENSURE ALL SIDEWALKS ARE ADA/AAB COMPLIANT WITH 2% MAXIMUM CROSS SLOPES AND 5% MAXIMUM RUNNING SLOPES. CONTRACTOR SHALL ALSO ENSURE ALL RAMPS ARE ADA/AAB COMPLIANT IN ACCORDANCE WITH RAMP DETAILS ON CONSTRUCTION DETAIL SHEETS. IF MORE INFORMATION IS NEEDED IN CERTAIN AREAS, CONTRACTOR SHALL SUBMIT AN RFI FOR CLARIFICATION.

CONTRACTOR SHALL INSTALL ADA RAMPS SUCH THAT BOTTOM OF RAMP LANDINGS PROVIDE POSITIVE DRAINAGE AND NOT LOW POINTS SUSCEPTIBLE TO PONDING

REFER TO SHEET 16 FOR STORM DRAINAGE TABLE FOR ADDITIONAL INFORMATION

THIS PLAN TO BE UTILIZED FOR SITE GRADING PURPOSES ONLY

REFER TO GENERAL NOTES SHEET FOR GRADING & UTILITY NOTES

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JOHN R. KUCICH CIVIL — PROFESSIONAL ENGINEER
MASSACHUSETTS LICENSE No. 41530
CONNECTICUT LICENSE No. 28177
RHODE ISLAND LICENSE No. 9616
MAINE LICENSE No. 12563

SHEET TITLE:
GRADING & DRAINAGE PLAN "D"

SHEET NUMBER:
15 OF 36

REV 13 - 08/22/2019

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DRAINAGE TABLE

STR.	RIM/ GRT	INV. IN	INV. OUT	OUT. PIPE SIZE	PIPE LENGTH	OUT. PIPE SLOPE
B4*			194.50(CB-71*)	8"	4'	0.00%
B5*			194.50(CB-88*)	8"	9'	0.00%
B6*			194.50(CB-74*)	8"	4'	0.00%
B9*			194.50(CB-78*)	8"	11'	0.00%
B10*			194.50(CB-79*)	8"	9'	0.00%
B11A*			194.50(CB-80*)	8"	7'	0.00%
B11B*			194.50(BND-6*)	8"	3'	0.00%
B12A			195.50(CB-82)	8"	23'	0.00%
B12B			195.50(CB-83)	8"	9'	0.00%
BND-1*		194.50(CB-73*)	194.50(BND-2*)	8"	3'	0.00%
BND-2*		194.50(BND-1*)	194.50(TEE-1*)	8"	51'	0.00%
BND-3*		193.50(BND-4*)	193.50(MH-B7*)	8"	17'	0.00%
BND-4*		193.50(CB-76*)	193.50(BND-3*)	8"	11'	0.00%
BND-5*		194.50(BND-6*)	194.50(CB-81*)	8"	18'	0.00%
BND-6*		194.50(B11B*)	194.50(BND-5*)	8"	3'	0.00%
BND-7*		195.76(R3A*)	195.76(BND-8*)	12"	12'	0.51%
BND-8*		195.70(BND-7*)	195.70(BND-9*)	12"	235'	0.00%
BND-9*		195.70(BND-8*)	195.70(BND-10*)	12"	14'	0.00%
BND-10*		195.70(BND-9*)	195.70(MH-L3A*)	12"	73'	0.00%
BND-11*		195.70(BND-12*)	195.70(MH-L3A*)	12"	49'	0.00%
BND-12*		195.70(BND-13*)	195.70(BND-11*)	12"	21'	0.00%
BND-13*		195.70(BND-14*)	195.70(BND-12*)	12"	71'	0.00%
BND-14*		195.81(MH-L2*)	195.81(BND-13*)	12"	21'	0.52%
BND-15*		196.68(BND-16*)	196.68(MH-L2*)	12"	143'	0.49%
BND-16*		196.71(R3G*)	196.71(BND-15*)	12"	6'	0.49%
BND-17*		196.05(R1H*)	196.05(BND-18*)	12"	5'	1.11%
BND-18*		196.00(BND-17*)	196.00(MH-W3*)	12"	142'	0.00%
BND-19*		196.53(R1E*)	196.53(BND-20*)	12"	3'	0.91%
BND-20*		196.50(BND-19*)	196.50(MH-L1A*)	12"	134'	0.00%
BND-21*		196.58(R1C*)	196.58(BND-22*)	8"	9'	0.93%
BND-22*		196.50(BND-21*)	195.50(MH-M1A*)	12"	52'	0.00%
BND-23*		196.50(BND-24*)	195.50(MH-M1A*)	12"	29'	0.00%
BND-24*		196.60(R1B*)	196.60(BND-23*)	8"	10'	1.03%
BND-25*		196.60(R1A*)	196.60(BND-26*)	8"	10'	1.03%
BND-26*		196.50(BND-25*)	196.50(MH-N1A*)	12"	33'	0.00%
BND-27*		196.50(BND-28*)	196.50(MH-N1A*)	12"	46'	0.00%
BND-28*		196.59(R1L*)	196.59(BND-27*)	8"	9'	0.97%
BND-29		197.00(R6B-T)	197.00(MH-S)	12"	16'	0.00%
BND-30		200.24(R1D)	200.24(MH-A6)	12"	135'	0.50%
BND-31		200.32(R2A)	200.32(MH-B1A)	12"	455'	0.40%
BND-32		199.75(BND-34)	199.75(MH-W2)	12"	250'	0.40%
–		–	–	–	–	–
BND-34		199.79(BND-35)	199.79(BND-32)	12"	8'	0.51%
BND-35		200.50(R3E)	200.50(BND-34)	12"	178'	0.40%
CB-1	201.60		199.10(MH-A4)	12"	123'	0.50%
CB-1A	201.60		198.63(MH-A4)	12"	7'	1.96%
CB-2	201.70		198.24(MH-A)	12"	7'	1.96%
CB-2A	201.50		198.50(MH-B1)	12"	7'	1.96%
CB-3	201.65		197.05(MH-B)	12"	71'	0.99%
CB-4	201.14		197.00(MH-Q2)	12"	9'	1.09%
CB-5	201.80		198.00(MH-C)	12"	20'	1.08%
CB-6	199.00		195.50(MH-D)	18"	11'	2.00%
CB-7	199.15		195.38(MH-D)	18"	137'	0.50%
CB-8	199.00		195.50(MH-E)	12"	11'	2.00%
CB-9	199.00		195.22(MH-E)	18"	144'	0.50%
CB-10	199.50		195.50(MH-F)	12"	14'	0.98%
CB-11	201.20		197.16(MH-J)	15"	165'	0.50%

DRAINAGE TABLE

STR.	RIM/ GRT	INV. IN	INV. OUT	OUT. PIPE SIZE	PIPE LENGTH	OUT. PIPE SLOPE
CB-12	201.60		198.00(MH-J)	12"	9'	2.01%
CB-13	201.80		197.50(MH-K)	18"	15'	2.03%
CB-14	201.00		197.00(MH-K)	12"	123'	1.00%
CB-15	201.80		196.17(MH-L)	12"	16'	1.00%
CB-16	201.00		197.00(MH-M)	12"	25'	2.02%
CB-17	199.80		195.80(MH-N)	12"	36'	2.00%
CB-18	200.05		194.45(MH-N4)	12"	11'	2.01%
CB-19	200.50		197.10(MH-S2)	12"	142'	1.00%
CB-20	201.00		197.10(MH-P)	12"	19'	1.05%
CB-21	201.25		197.68(MH-S)	12"	136'	0.50%
CB-22	200.50		197.25(MH-S)	12"	25'	1.00%
CB-22A	200.95		197.30(MH-S4)	12"	8'	1.25%
CB-22B	200.40		197.15(MH-S3)	12"	14'	0.49%
CB-23	200.95		197.38(MH-S4)	12"	65'	1.00%
CB-24	200.45		196.60(MH-R)	12"	14'	1.00%
CB-25	200.60		195.50(MH-U)	12"	164'	0.50%
CB-26	199.20		194.99(MH-T3)	12"	24'	2.02%
CB-27	201.25		198.00(MH-Q)	12"	78'	1.03%
CB-28	199.90		195.90(MH-U)	12"	7'	2.01%
CB-29	200.25		196.66(MH-S2)	12"	54'	0.50%
(1) CB-30	202.05		200.50(MH-X)	12"	20'	26.40%
CB-31	199.50		195.44(MH-X)	12"	8'	2.00%
CB-32	199.50		195.50(MH-W)	12"	27'	1.00%
CB-33	200.00		194.86(TEE-2)	12"	33'	0.51%
CB-34	198.75		194.75(MH-Z)	12"	21'	1.03%
CB-35	199.60		195.80(MH-Y)	12"	16'	1.99%
CB-36	199.10		195.90(MH-A1)	12"	156'	1.00%
CB-37	199.05		195.70(MH-A1)	12"	15'	1.98%
CB-38	199.50		196.50(MH-C1)	12"	33'	2.00%
CB-39	199.50		196.50(MH-C1)	12"	8'	2.11%
CB-40	200.75	(4)	197.75(MH-C1)	12"	234'	1.00%
CB-41	199.70		195.00(MH-B14B) 196.33(MH-D1)	12" 15"	18' 17'	0.00% 0.77%
CB-42	199.70		196.33(MH-E1) 195.00(BASIN #14)	12" 12"	9' 5'	1.43% 0.00%
CB-43	201.25		197.00(MH-H1) 194.50(MH-B15)	15" 12"	25' 11'	3.98% 0.00%
CB-45	201.55		197.12(MH-K1)	12"	10'	0.98%
CB-46	201.85		198.35(MH-K1)	12"	131'	1.02%
–	–		–	–	–	–
CB-48	199.70		195.00(MH-F1) 195.00(BASIN #13)	15" 12"	6' 9'	0.00% 0.00%
CB-49	199.70		196.65(MH-G1)	15"	6'	2.51%
CB-50	199.85		196.43(MH-G1)	15"	70'	0.50%
CB-51*	199.00		196.03(MH-Q1*)	15"	141'	0.50%
CB-52*	199.00		195.43(MH-Q1*)	15"	7'	2.08%
CB-53*	198.00		195.04(MH-O1*)	15"	77'	1.04%
CB-54*	198.00		194.25(MH-N1*)	12"	11'	1.03%
CB-55*	198.00	194.50(MH-M1A*)	194.50(MH-M1*)	15"	10'	2.05%
CB-56*	198.40	194.50(MH-L1A*)	194.50(MH-L1)	12"	90'	1.26%
CB-57*	199.10		195.00(MH-S1*)	12"	81'	1.00%
CB-58	200.05		196.00(MH-R1)	12"	15'	0.99%
CB-59*	198.00		195.10(MH-T1*)	12"	96'	1.02%
CB-60*	198.00		194.38(MH-U1*)	12"	7'	0.99%
CB-61*	198.00		194.94(MH-V1*)	12"	10'	1.06%
CB-62*	198.10		195.31(MH-W1*)	12"	13'	0.99%
CB-63*	198.00		195.16(MH-W1*)	15"	129'	0.50%
CB-64*	199.50		195.71(MH-I2*)	12"	103'	0.50%
CB-66	199.35		196.83(FES-12A)	8"	55'	0.00%
CB-66 (1)	199.35		196.83(FES-12B)	8"	55'	0.00%
CB-68	198.91		196.83(FES-11)	8"	18'	0.00%

ADDITIONAL DRAINAGE TABLE

STR.	RIM/ GRT	INV. IN	INV. OUT	OUT. PIPE SIZE	PIPE LENGTH	OUT. PIPE SLOPE
MH-B14C	199.95	195.00(CB-44)				
CB-44	199.70		196.33(MH-E1A) 195.00(MH-B14C)	12" 12"	8' 19'	1.64% 0.00%
CB-43A	201.50		194.50(MH-B16)	12"	23'	0.00%
MH-B16	202.05	194.50(CB-43A)				
CB-45A	201.75		195.50(BASIN#16A) 195.50(BASIN#16B) 198.00(MH-I1)	12" 12" 12"	3' 3' 15'	0.00% 0.00% 1.69%
MH-E1A	199.80	195.08(MH-F1) 196.20(CB-44)	195.08(MH-E1)	18"	49'	0.51%
MH-I1	202.28	195.47(MH-J1) 197.75(CB-45A)	195.47(MH-H1)	18"	134'	0.50%
–		–	–	–	–	–
R9A			196.90(R9B)	8"	53'	1.00%
R9B		196.37(R9A)	195.79(MHJ-I)	12"	58'	1.00%
CB93	198.85		195.80(MH-R10B)	12"	11'	0.94%
CB94	199.50		196.50(MH-Z7)	12"	61'	0.98%
MH-Z7	200.98	195.90(CB-94)	195.80(MH-R10B)	15"	104'	0.96%
MH-R10C	202.20	197.00(MH-R10D)	196.90(MH-R10G)	15"	88'	0.51%
MH-R10D	202.60	197.00(R10C) 197.00(MH-R10E)	197.00(MH-R10C)	15"	150'	0.00%
MH-R10E	202.20	197.00(R10B)	197.00(MH-R10D)	15"	157'	0.00%
MH-R10G	202.42	196.45(MH-R10C)	196.35(MH-Z2)	15"	15'	0.66%
MH-WQU4	201.40	193.33(MH-WQU3)	193.33(MH-Z3)	15"	27'	1.21%

DRAINAGE TABLE

STR.	RIM/ GRT	INV. IN	INV. OUT	OUT. PIPE SIZE	PIPE LENGTH	OUT. PIPE SLOPE
(3) CB-69	200.50		196.60(MH-A5)	18"	42'	1.50%
CB-69A	201.00		197.50(MH-A5)	12"	54'	1.00%
CB-70*	198.45		195.95(MH-B2*) 194.50(MH-B4B*)	12" 8"	6' 31'	0.98% 0.00%
CB-71*	198.45	194.50(B4*)	195.95(MH-C2*)	12"	8'	1.01%
CB-72*	198.45	194.50(TEE-1*)	195.95(MH-D2*)	12"	7'	1.99%
CB-73*	198.60		195.95(MH-D2*) 194.50(BND-1*)	12" 8"	56' 4'	2.49% 0.00%
CB-74*	198.00	194.50(B6*)	195.50(MH-Z1*)	12"	10'	0.98%
CB-75*	198.00		195.50(MH-Y1*) 194.50(MH-B6*)	12" 8"	11' 5'	1.00% 0.00%
CB-76*	197.00		194.50(MH-G2*) 193.50(BND-4*)	12" 8"	14' 4'	1.00% 0.00%
CB-77*	198.10		194.50(MH-H2) 193.50(MH-B8*)	12" 8"	11' 36'	1.05% 0.00%
CB-78*	199.10	194.50(B9*)	195.22(MH-H2)	12"	113'	1.00%
CB-79*	198.20	194.50(B10*)	195.70(MH-F2*)	12"	59'	1.00%
CB-80*	198.20	194.50(B11A*)	195.70(MH-F2*)	12"	8'	1.08%
CB-81*	198.20	194.50(BND-5*)	195.70(MH-E2*)	12"	9'	1.05%
CB-82	200.75	195.50(B12A)	198.25(MH-N2)	12"	13'	2.02%
CB-83	200.85	195.50(B12B)	198.25(MH-N3)	12"	14'	0.98%
CB-84	201.00	197.20(YD-3)	196.69(MH-O2)	12"	81'	0.51%
CB-85	201.00		196.89(MH-O2)	12"	10'	1.06%
CB-86	198.75		194.93(MH-U)	12"	22'	1.23%
CB-87*	198.60		195.15(MH-V2*)	12"	12'	1.00%
CB-88*	198.80	194.50(B5*)	196.30(MH-HR2*)	12"	6'	0.95%
CB-89	200.50		197.50(FES-9)	12"	149'	0.45%
CB-90	202.24		198.00(MH-B3)	12"	20'	1.00%
CB-91	201.00		197.0(MH-T3)	12"	7'	2.00%
CB-92	201.01		196.10(MH-S5)	12"	5'	2.00%
FES-1		191.70(WDIV2-B)				
FES-2		192.00(WDIV1-B)				
FES-3		192.91(MH-Y)				
FES-4		192.40(MH-C1)				
(2) FES-5		189.51(MH-S1*)				
(2) FES-6		191.34(MH-L1*)				
FES-7			198.50(MH-H)	18"	105'	2.50%
FES-8		197.00(MH-HR7*)				
FES-9		196.83(CB-89)				
FES-10		193.07(MH-A1)				
FES-11		196.83(CB-68)				
FES-12A		196.83(CB-66)				
FES-12B		196.83(CB-66 (1))				
MH-A	201.90	198.11(CB-2) 198.11(MH-A4)	198.11(MH-B1)	18"	62'	0.50%
MH-A1	199.60	195.40(CB-37) 194.32(CB-36)	194.32(FES-10)	15"	124'	1.00%
MH-A2	201.65	196.55(MH-A3) 196.55(R1F)	196.55(MH-A5)	18"	20'	1.01%
MH-A3	202.10	197.60(R1G)	197.60(MH-A2)	12"	106'	0.99%
MH-A4	201.80	198.49(CB-1) 198.50(CB-1A)	198.49(MH-A)	15"	75'	0.51%
MH-A5	201.20	196.96(CB-69A) 195.97(CB-69) 196.35(MH-A2)	195.97(MH-H)	18"	36'	0.61%
MH-A6	201.75	199.57(BND-30)	199.57(MH-B1B)	12"	207'	0.52%
MH-B	202.85	196.35(CB-3) 196.35(MH-Y2) 196.85(MH-B1)	196.09(MH-B3)	24"	84'	0.50%
MH-B1	201.65	198.37(CB-2A) 197.80(MH-A)	197.80(MH-B)	18"	190'	0.50%
MH-B1A	203.60	198.50(BND-31)				
MH-B1B	202.70	198.50(MH-A6)				
MH-B2*	198.65	195.89(CB-70*) 193.29(MH-C2*)	193.29(MH-HR2*)	18"	77'	0.50%
MH-B3	202.65	195.67(MH-B) 197.80(CB-90)	195.67(MH-C)	24"	97'	0.50%
MH-B4A*	198.54		194.50(TEE-1*)	8"	14'	0.00%
MH-B4B*	198.50	194.50(CB-70*)				
MH-B6*	198.10	194.50(CB-75*)				
MH-B7*	197.40	193.50(BND-3*)				
MH-B8*	198.10	193.50(CB-77*)				
-	-	-				

ADDITIONAL DRAINAGE TABLE

STR.	RIM/ GRT	INV. IN	INV. OUT	OUT. PIPE SIZE	PIPE LENGTH	OUT. PIPE SLOPE
CB-24A	200.30		196.60(MH-R)	12"	13'	1.07%
MH-N4	200.65	194.23(CB-18) 194.23(MH-N)	194.23(MH-O)	12"	64'	0.45%

DRAINAGE TABLE

STR.	RIM/ GRT	INV. IN	INV. OUT	OUT. PIPE SIZE	PIPE LENGTH	OUT. PIPE SLOPE
-	-	-				
MH-B14B	200.00	195.00(CB-41)				
MH-B15	201.55	194.50(CB-43)				
MH-B16A	202.44	195.50(MH-J1)	BASIN #16A	15"	15'	0.00%
MH-B16B	202.61	195.50(BASIN #16)				
MH-C	202.05	197.78(CB-5) 195.19(MH-B3) 195.19(MH-Q2)	195.19(MH-D)	30"	241'	0.50%
MH-C1	200.12	193.35(MH-D1) 195.40(CB-40) 196.34(CB-39) 195.83(CB-38)	193.35(FES-4)	36"	96'	0.99%
MH-C2*	198.65	193.83(MH-D2*) 195.87(CB-71*)	193.83(MH-B2*)	18"	108'	0.50%
MH-D	199.30	194.70(CB-7) 195.28(CB-6) 193.99(MH-C)	193.99(MH-E)	42"	137'	0.50%
MH-D1	199.90	193.78(MH-H1) 194.35(MH-E1) 196.20(CB-41)	193.78(MH-C1)	36"	73'	0.59%
MH-D2*	198.65	194.55(CB-73*) 195.82(CB-72*)	194.18(MH-C2*)	18"	71'	0.49%
MH-E	199.30	193.31(MH-D) 195.28(CB-8) 194.50(CB-9)	193.31(MH-F)	42"	119'	0.50%
MH-E1	199.80	194.83(MH-E1A) 196.20(CB-42)	194.83(MH-D1)	24"	97'	0.50%
MH-E2*	198.40	194.35(MH-F2*) 195.61(CB-81*)	193.85(MH-P2*)	18"	113'	0.75%
MH-F	199.75	192.71(MH-E) 195.36(CB-10)	192.71(MH-G)	42"	113'	0.52%
MH-F1	199.80	195.00(CB-48) 195.60(MH-G1)	195.60(MH-E1A)	18"	104'	0.50%
MH-F2*	198.40	195.11(CB-79*) 195.61(CB-80*)	194.80(MH-E2*)	12"	66'	0.68%
MH-G	200.75	192.12(MH-F) 192.69(MH-R1)	192.12(WDIV2-A)	48"	8'	0.59%
MH-G1	199.80	196.50(CB-49) 196.08(CB-50) –	196.08(MH-F1)	18"	93'	0.51%
MH-G2*	197.24	191.07(MH-X1*) 194.36(CB-76*)	191.09(MH-H2)	24"	130'	0.75%
MH-H	201.30	195.75(MH-A5) 195.87(FES-7)	195.75(MH-R1)	30"	208'	0.50%
MH-H1	201.55	194.80(MH-I1) 196.02(CB-43)	194.80(MH-D1)	18"	209'	0.49%
(2) MH-H2	198.26	194.09(CB-78*) 191.39(MH-K2*) 194.38(CB-77*) 185.03(MH-Z6) 190.11(MH-G2*)	185.03(MH-H3)	60"	29'	0.82%
MH-H3	196.30	184.79(MH-H2)				
MH-HR1*	198.93	195.00(MH-HR3*)	195.00(MH-HR2*)	15"	13'	2.00%
MH-HR2*	198.95	192.90(MH-B2*) 196.24(CB-88*) 194.75(MH-HR1*)	193.20(MH-P2*)	18"	60'	0.50%
MH-HR3*	198.71	195.00()	195.00(MH-HR1*)	12"	95'	0.00%
MH-HR4*	199.90	197.00(RCC-BND2*)	197.00(RCC-BND3*)	12"	77'	0.00%
MH-HR5*	200.30	197.00(RCC-BND4*)	197.00(RCC-BND5*)	12"	60'	0.00%
MH-HR6*	200.35	197.00()	197.00(MH-HR7*)	12"	163'	0.00%
MH-HR7*	199.90	197.00(MH-HR8*) 197.00(MH-HR6*)	197.00(FES-8)	12"	39'	0.00%
MH-HR8*	200.50	197.00(MH-HR9*) 197.35(YD-1*)	197.00(MH-HR7*)	12"	32'	0.00%
MH-HR9*	200.00	197.60(YD-2*) 197.00(MH-HR10*)	197.00(MH-HR8*)	12"	51'	0.00%
MH-HR10*	200.80	197.00(MH-HR11*)	197.00(MH-HR9*)	12"	31'	0.00%
MH-HR11*	200.19	197.00(MH-HR12*)	197.00(MH-HR10*)	12"	45'	0.00%
MH-HR12*	199.90	197.00(RCC-9*)	197.00(MH-HR11*)	12"	35'	0.00%
MH-I1	REFER TO ADDITIONAL DRAINAGE TABLE BELOW					
MH-I2*	199.25	195.20(CB-64*)	195.20(MH-V2*)	12"	33'	0.51%
MH-J	201.85	197.82(CB-12) 196.33(CB-11)	196.23(MH-K)	24"	93'	0.51%
(4) MH-J1	202.50	195.50(MH-B16A) 195.79(MH-K1)	195.79(MH-I1)	15"	70'	0.46%
MH-K	202.15	197.20(CB-13) 195.77(CB-14) 195.75(MH-J)	195.75(MH-L3)	24"	36'	0.50%
MH-K1	201.75	197.02(CB-45) 197.02(CB-46)	196.02(MH-J1)	15"	25'	0.93%
MH-K2*	198.50		192.50(MH-H2)	15"	55'	2.00%
MH-L	202.40	196.00(CB-15) 195.32(MH-L3)	195.32(MH-M)	24"	107'	0.50%
MH-L1*	199.90	192.37(MH-M1*)	191.68(FES-6)	36"	68'	0.50%
MH-L1A*	199.80	196.50(BND-20*)	195.03(CB-56*)	12"	26'	2.01%
MH-L2*	199.53	195.98(BND-15*)	195.98(BND-14*)	12"	34'	0.50%
MH-L3	202.40	195.57(MH-K) 197.00(R4A-T)	195.57(MH-L)	24"	51'	0.49%
MH-L3A*	199.35	195.70(BND-11*) 195.70(BND-10*)	195.70(MH-LR4*)	12"	69'	0.51%
MH-LR1*	199.07					
MH-LR2*	198.80					
MH-LR3*	199.65					
MH-LR4*	199.80	195.35(MH-L3A*)				
MH-LR5*	198.85					
MH-M	201.35	196.50(CB-16) 194.78(MH-L)	194.78(MH-N)	24"	57'	0.65%
MH-M1*	198.20	194.30(CB-55*) 192.99(MH-N1*)	192.99(MH-L1*)	30"	124'	0.50%
MH-M1A*	198.15	195.50(BND-23*) 195.50(BND-22*)	194.61(CB-55*)	12"	11'	0.98%

DRAINAGE TABLE

STR.	RIM/ GRT	INV. IN	INV. OUT	OUT. PIPE SIZE	PIPE LENGTH	OUT. PIPE SLOPE
MH-M2*	200.65	194.54(MH-P1*)	194.54(MH-O1*)	30"	107'	0.51%
MH-N	200.65	194.41(MH-M) 195.08(CB-17)	194.41(MH-N4)	30"	36'	0.50%
MH-N1*	198.40	194.14(CB-54*) 193.64(MH-O1*) 196.20(MH-N1A*)	193.64(MH-M1*)	30"	125'	0.52%
MH-N1A*	198.10	196.50(BND-26*) 196.50(BND-27*)	196.50(MH-N1*)	8"	15'	2.05%
MH-N2	201.34	196.79(MH-N3) 197.98(CB-82)	196.69(MH-Z2)	12"	12'	2.50%
MH-N3	201.30	198.11(CB-83)	198.01(MH-N2)	12"	122'	1.00%
MH-O	201.45	193.94(MH-N4) 197.00(R6D-T)	193.94(MH-P)	30"	67'	0.45%
MH-O1*	198.80	194.24(CB-53*) 193.99(MH-M2*)	193.99(MH-N1*)	30"	61'	0.57%
MH-O2	201.25	196.28(CB-84) 196.78(CB-85)	196.03(MH-Q2)	18"	55'	0.51%
MH-P	201.55	194.85(MH-R) 193.63(MH-O) 196.90(CB-20)	193.63(MH-T3)	30"	70'	0.45%
MH-P1*	200.15	195.00(MH-Q1*)	195.00(MH-M2*)	30"	93'	0.50%
MH-P2*	199.90	192.90(MH-HR2*) 193.00(MH-E2*)	192.90(MH-Z1*)	24"	71'	0.50%
MH-Q	201.00	197.20(CB-27) 197.20(CB-22A)	197.20(MH-S)	18"	38'	0.54%
MH-Q1*	199.25	195.29(CB-52*) 195.32(CB-51*)	195.32(MH-P1*)	30"	63'	0.51%
MH-Q2	201.25	195.75(MH-O2) 196.90(CB-4)	195.74(MH-C)	24"	110'	0.50%
MH-R	201.00	196.46(CB-24) 196.46(CB-24A) 196.30(MH-S4)	196.30(MH-P)	18"	115'	1.30%
MH-R1	200.28	194.71(MH-H) 195.85(CB-58)	192.92(MH-G)	30"	45'	0.51%
MH-WQU3	200.80	193.90(MH-R10B)	193.80(MH-WQU4)	15"	39'	1.21%
MH-R10B	199.35	195.70(CB-93) 194.80(MH-Z7)	194.70(MH-WQU3)	15"	99'	0.81%
MH-S	200.80	197.00(CB-21) 197.00(CB-22) 197.00(MH-Q)	197.00(MH-S4)	18"	53'	0.50%
MH-S1*	200.95	194.19(CB-57*) 190.00(MH-T1*)	189.96(FES-5)	30"	92'	0.49%
MH-S2	201.83	196.39(CB-19) 196.39(CB-29) 197.00(R5D-T)	196.39(MH-S5)	12"	109'	0.50%
–		–	–	–	–	–
MH-S4	201.70	196.73(MH-S) 196.73(CB-23)	196.73(MH-R)	18"	86'	0.50%
MH-S5	201.25	196.00(CB-92) 195.84(MH-S2)	195.84(MH-X)	18"	111'	0.50%
MH-T	201.20	193.00(MH-T3)	193.00(MH-V)	36"	51'	0.50%
MH-T1*	198.90	193.46(MH-U1*) 194.12(CB-59*)	190.79(MH-S1*)	30"	157'	0.50%
MH-T3	201.10	193.31(MH-P) 196.85(CB-91)	193.31(MH-T)	36"	75'	0.45%
MH-U	200.30	195.80(CB-28) 194.66(CB-25) 194.66(CB-86)	194.66(MH-V)	15"	78'	1.21%
MH-U1*	198.15	193.65(MH-V1*) 194.31(CB-60*)	193.65(MH-T1*)	30"	36'	0.53%
MH-V	201.60	193.72(MH-U) 192.74(MH-T)	192.74(MH-W)	36"	74'	0.53%
MH-V1*	198.60	194.17(MH-W1*) 194.83(CB-61*)	194.17(MH-U1*)	30"	105'	0.50%
MH-V2*	198.90	195.03(MH-I2*) 195.03(CB-87*)	195.03(MH-W1*)	12"	101'	0.50%
MH-W	199.75	192.35(MH-V) 194.77(MH-X) 195.23(CB-32)	192.35(WDIV1-A)	36"	7'	1.51%
MH-W1*	198.70	195.18(CB-62*) 194.52(CB-63*) 194.52(MH-V2*) 194.70(MH-W3*)	194.52(MH-V1*)	30"	69'	0.50%
MH-W2	203.50	198.75(BND-32)				
MH-W3*	199.80	196.00(BND-18*)	196.00(MH-W1*)	12"	132'	0.99%
MH-X	199.60	195.29(MH-S5) 195.29(CB-30) 195.29(CB-31)	195.29(MH-W)	18"	50'	1.04%
MH-X1*	199.25	191.77(MH-Y1*)	191.77(MH-G2*)	24"	142'	0.49%
MH-Y	200.12	195.48(CB-35) 193.91(MH-Z)	193.91(FES-3)	15"	100'	1.00%
MH-Y1*	198.20	192.10(MH-Z1*) 195.39(CB-75*)	192.10(MH-X1*)	24"	67'	0.49%
MH-Y2	203.45		196.60(MH-B)	24"	24'	1.05%
MH-Z	200.30	194.53(TEE-2) 194.53(CB-34)	194.50(MH-Y)	12"	58'	1.01%
MH-Z1*	198.20	192.54(MH-P2*) 195.40(CB-74*)	192.54(MH-Y1*)	24"	88'	0.50%
MH-Z2	201.80	187.51(OCS-1) 196.40(MH-N2) 196.25(MH-R10G)	187.51(MH-Z3)	60"	240'	0.30%
MH-Z3	200.70	186.79(MH-Z2) 193.00(MH-WQU4)	186.79(MH-Z4)	60"	193'	0.30%
(2) MH-Z4	199.50	186.21(MH-Z3)	186.21(MH-Z5)	60"	213'	0.30%
(2) MH-Z5	199.50	185.57(MH-Z4)	185.57(MH-Z6)	60"	91'	0.30%
(2) MH-Z6	199.80	185.30(MH-Z5)	185.30(MH-H2)	60"	90'	0.30%
OCS-1**	195.15		188.45(MH-Z2)	60"	313'	0.30%
R1A*			196.81(BND-25*)	8"	21'	1.00%
R1B*			196.67(BND-24*)	8"	7'	0.97%
R1C*			196.63(BND-21*)	8"	5'	1.02%
R1D			200.40(BND-30)	12"	27'	0.60%
R1E*			196.66(BND-19*)	12"	13'	0.97%
R1F			196.80(MH-A2)	12"	26'	0.95%
R1G			197.90(MH-A3)	12"	27'	1.11%

DRAINAGE TABLE

STR.	RIM/ GRT	INV. IN	INV. OUT	OUT. PIPE SIZE	PIPE LENGTH	OUT. PIPE SLOPE
R1H*			196.13(BND-17*)	12"	8'	1.04%
R1L*			196.76(BND-28*)	8"	17'	0.98%
R2A			200.38(BND-31)	12"	12'	0.49%
R3A*			195.81(BND-7*)	12"	11'	0.45%
R3E			200.56(BND-35)	12"	12'	0.50%
R3G*			196.74(BND-16*)	12"	7'	0.46%
R4A			197.15(R4A-T)	6"	12'	1.21%
R4A-T		197.00(R4B) 197.00(R4A)	197.00(MH-L3)	12"	44'	0.00%
R4B			197.00(R4A-T)	12"	91'	0.00%
R5A			197.00(R5B-T)	12"	72'	0.00%
R5B			197.15(R5B-T)	6"	13'	1.19%
R5B-T		197.00(R5A) 197.00(R5B)	197.00(R5C-T)	12"	44'	0.00%
R5C			197.15(R5C-T)	6"	13'	1.19%
R5C-T		197.00(R5B-T) 197.00(R5C)	197.00(R5D-T)	12"	27'	0.00%
R5D			197.15(R5D-T)	6"	13'	1.19%
R5D-T		197.00(R5C-T) 197.00(R5D)	197.00(MH-S2)	12"	14'	0.00%
R6D-T			197.00(DMH-O)	12"	140'	0.00%
R7A			195.20(R7D-T)	6"	130'	0.00%
R7D-T		195.20	195.20	–	–	–
R8A			195.15(TEE-3)	12"	56'	0.50%
R8B			195.10(TEE-3)	12"	45'	0.50%
R10A (5)			197.40(R10A-T)	12"	41'	0.98%
R10A-T		197.00(MH-R10D) 197.00(R10A)	197.00(MH-R10C)	15"	15'	0.00%
R10B (5)			197.55(MH-R10E)	12"	55'	0.99%
R10C			197.24(MH-R10D)	8"	24'	1.00%
–		–	–	–	–	–
R10D			197.46(R10D-T)	12"	13'	1.00%
R10D-T		197.33(R10D)	197.33(MH-R10E)	12"	33'	0.99%
R10E			194.73(R10E-T)	12"	17'	1.00%
R10E-T		194.56(R10E)	194.56(MH-R10A)	15"	82'	0.81%
R10F			195.02(R10F-T)	8"	16'	1.00%
R10F-T		194.86(R10F)	194.86(MH-R10B)	15"	6'	0.96%
RCC-9*			197.00(MH-HR12*)	12"	82'	0.00%
RCC-BND1*		197.00(RCC20*)	197.00(RCC-BND2*)	12"	43'	0.00%
RCC-BND2*		197.00(RCC-BND1*)	197.00(MH-HR4*)	12"	38'	0.00%
RCC-BND3*		197.00(MH-HR4*)	197.00(RCC-BND4*)	12"	36'	0.00%
RCC-BND4*		197.00(RCC-BND3*)	197.00(MH-HR5*)	12"	67'	0.00%
RCC-BND5*		197.00(MH-HR5*)				
RCC-BND6*						
RCC20*			197.00(RCC-BND1*)	12"	18'	0.00%
TEE-1*		194.50(BND-2*) 194.50(MH-B4A*)	194.50(CB-72*)	8"	5'	0.00%
TEE-2		194.69(TEE-3) 194.69(CB-33)	194.69(MH-Z)	12"	33'	0.49%
TEE-3		194.87(R8A) 194.87(R8B)	194.87(TEE-2)	12"	17'	1.03%
WDIV1-A**	200.25	192.25(MH-W)	192.25(WQU-1A)	24"	10'	0.51%
WDIV1-B**	200.10	192.15(WQU-1B)	192.14(FES-2)	36"	27'	0.52%
WDIV2-A**	201.00	192.07(MH-G)	192.07(WQU-2A)	24"	11'	0.92%
WDIV2-B**	200.10	191.87(WQU-2B)	191.87(FES-1)	48"	34'	0.49%
WQU-1A**	200.20	192.20(WDIV1-A)				
WQU-1B**	200.10		192.20(WDIV1-B)	24"	10'	0.51%
WQU-2A**	201.00	191.97(WDIV2-A)				
WQU-2B**	200.10		191.97(WDIV2-B)	24"	11'	0.92%
YD-1*	199.80		197.51(MH-HR8*)	8"	16'	0.98%
YD-2*	199.80		197.67(MH-HR9*)	8"	7'	0.97%
YD-3	201.30	197.35(YD-4)	197.35(CB-84)	8"	15'	1.00%
YD-4	201.30		197.98(YD-3)	8"	63'	1.00%

NOTES:
PIPE LENGTHS ARE MEASURED CENTER TO CENTER
PIPE MATERIAL IS TO BE HDPE UNLESS SPECIFIED OTHERWISE. REFER TO GENERAL NOTES ON SHEET 2 FOR MORE INFORMATION.

* DENOTES DRAINAGE STRUCTURES ASSOCIATED WITH THE LECESSE AND HAWTHORNE DEVELOPMENTS THAT ARE NOT INCLUDED WITH THE CURRENT CONTRACT.

WQU-1A/1B IS A VORTECHNICS MODEL 4000
WQU-2A/2B IS A VORTECHNICS MODEL 5000
CB93 IS A DOUBLE GRATE CATCH BASIN
WDIV1-A/B IS THE DIVERSION STRUCTURE FOR WQU-1A
WDIV2-A/B IS THE DIVERSION STRUCTURE FOR WQU-2A
**REFER TO DETAIL SHEET 30 FOR MORE INFORMATION

(1) STRUCTURE WAS FIELD ADJUSTED BY CONTRACTOR
(2) REVISED PER CONSTRUCTION SK#2
(3) REVISED PER CONSTRUCTION SK#3
(4) ROOF LEADER CONNECTION TO BE CORED BY CONTRACTOR AFTER STRUCTURE INSTALLED, COORDINATE WITH MASTER DEVELOPER
(5) PIPE SHALL BE D.I.P.

TOWN OF MAYNARD PLANNING BOARD APPROVAL

SIGNATURE ____ DATE
SIGNATURE ____ DATE
Approved plans - see cover sheet for Planning Board signatures.
SIGNATURE ____ DATE
Dated 5-14-20
SIGNATURE ____ DATE
SIGNATURE ____ DATE

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PRELIMINARY

PROJECT No.: W161189
DRAWN BY: AWP/CFD
CHECKED BY: NEM/JAK
DATE: 02/15/2017
SCALE: AS NOTED
CAD I.D.: W161189SS13B

PROJECT:
SITE DEVELOPMENT PLANS
FOR
CAPITAL GROUP PROPERTIES

MAYNARD CROSSING

LOCATION OF SITE
MAP #25 & LOTS #152 & 152-1
129 PARKER STREET (ROUTE 27)
TOWN OF MAYNARD
MIDDLESEX COUNTY
MASSACHUSETTS

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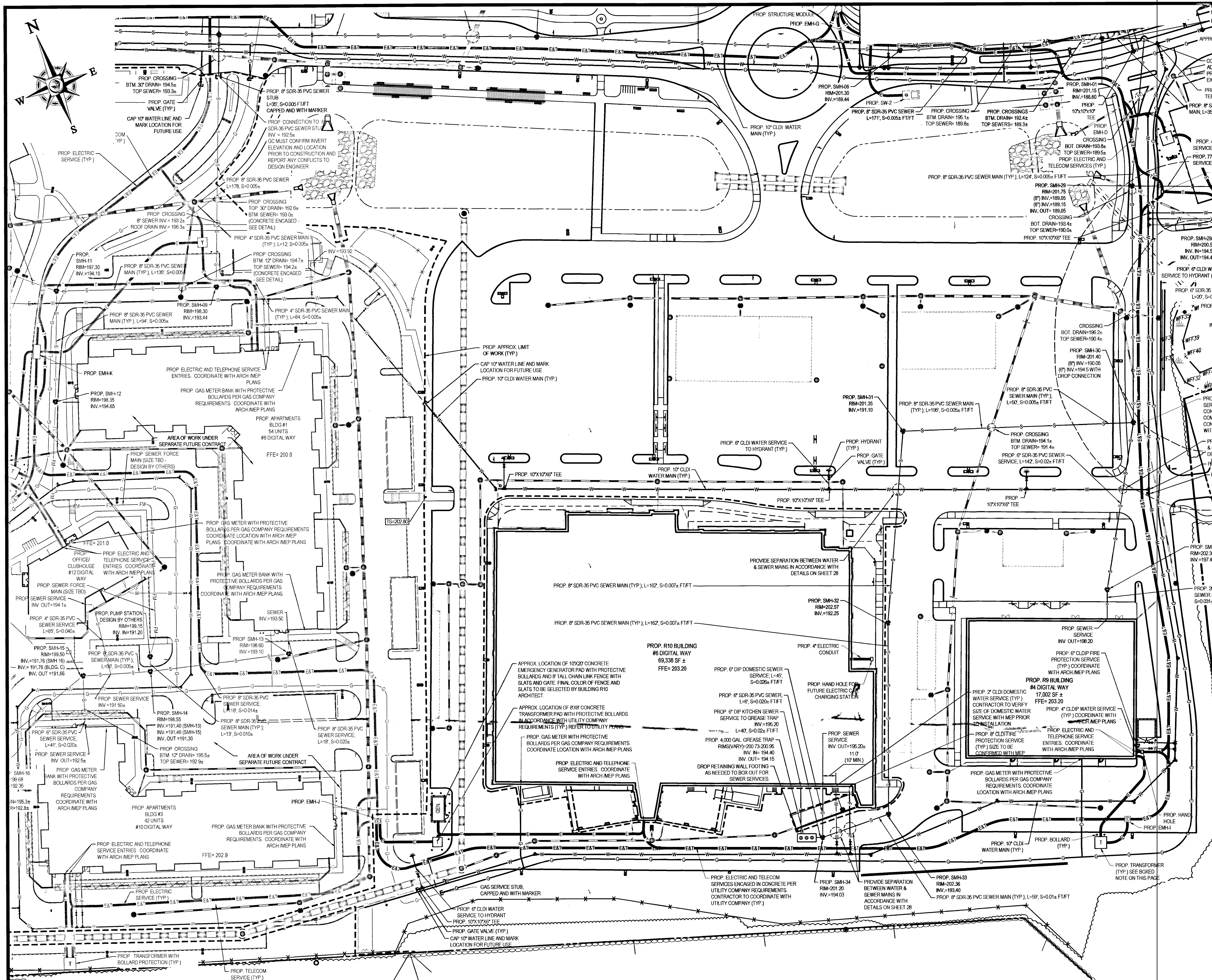
PROFESSIONAL ENGINEER
MASSACHUSETTS LICENSE No. 41530
CONNECTICUT LICENSE No. 26177
RHODE ISLAND LICENSE No. 9616
MAINE LICENSE No. 12553

SHEET TITLE:
DRAINAGE STRUCTURE TABLE

SHEET NUMBER:
16
OF 36

REV 13 - 08/22/2019



THIS PLAN TO BE UTILIZED FOR SITE UTILITY PURPOSES ONLY

REFER TO GENERAL NOTES SHEET FOR GRADING & UTILITY NOTES

GC SHALL COORDINATE LOCATION OF ALL UTILITY SERVICE PENETRATIONS WITH ARCH./MEP PLANS UPON FINAL TENANT FIT OUT

FINAL NUMBER AND LOCATION OF TRANSFORMERS SHALL BE COORDINATED WITH UTILITY COMPANY. TRANSFORMERS SHALL BE LOCATED WITH PROPER OFFSETS AND SETBACK DISTANCES AND SHALL BE INSTALLED WITH BOLLARD PROTECTION IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS

ALL GREASE TRAPS SHALL BE VENTED PER BUILDING/PLUMBING CODE. VENTS SHALL BE CAST IRON

811
Know what's below.
Call before you dig.

GREASE TRAP SIZES AS SHOWN ARE APPROXIMATE. FINAL SIZE REQUIREMENTS TO BE COORDINATED WITH DEVELOPER PRIOR TO CONSTRUCTION BASED ON TENANT REQUIREMENTS.

CONTRACTOR SHALL COORDINATE ELECTRIC, TELEPHONE, AND GAS SERVICE DESIGNS WITH DEVELOPER AND UTILITY COMPANIES. UTILITY COMPANY DESIGNS SHALL CONFIRM SIZE AND QUANTITY OF CONDUITS, PIPE SIZING, CONCRETE ENCASEMENT, AND CONDUIT JUNCTION POINTS / CHANGES IN DIRECTION AND VAULT / HANDHOLE LOCATIONS, QUANTITY AND SIZING REQUIREMENTS, ETC.

GC TO COORDINATE WITH THE DPW PRIOR TO CONSTRUCTION TO SEE IF EXISTING WATER MAIN CAN BE RE-UTILIZED TO SERVICE THE PROJECT

A HYDRANT SHALL BE LOCATED WITHIN 100-FT. OF EACH BUILDING FDC. CONTRACTOR SHALL COORDINATE FINAL HYDRANT LOCATIONS WITH FIRE DEPARTMENT

TOWN OF MAYNARD PLANNING BOARD APPROVAL

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SIGNATURE — DATE
SIGNATURE Dated 5.14.20 DATE
SIGNATURE — DATE

20 10 5 0 20
1"= 20'

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PRELIMINARY

PROJECT No.:	W161189
DRAWN BY:	AWP/CFD
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CAD I.D.:	W161189SS13B

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CAPITAL GROUP PROPERTIES

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SHEET TITLE:
UTILITY PLAN "D"

SHEET NUMBER:
20
OF 36

REV 13 - 08/22/2019

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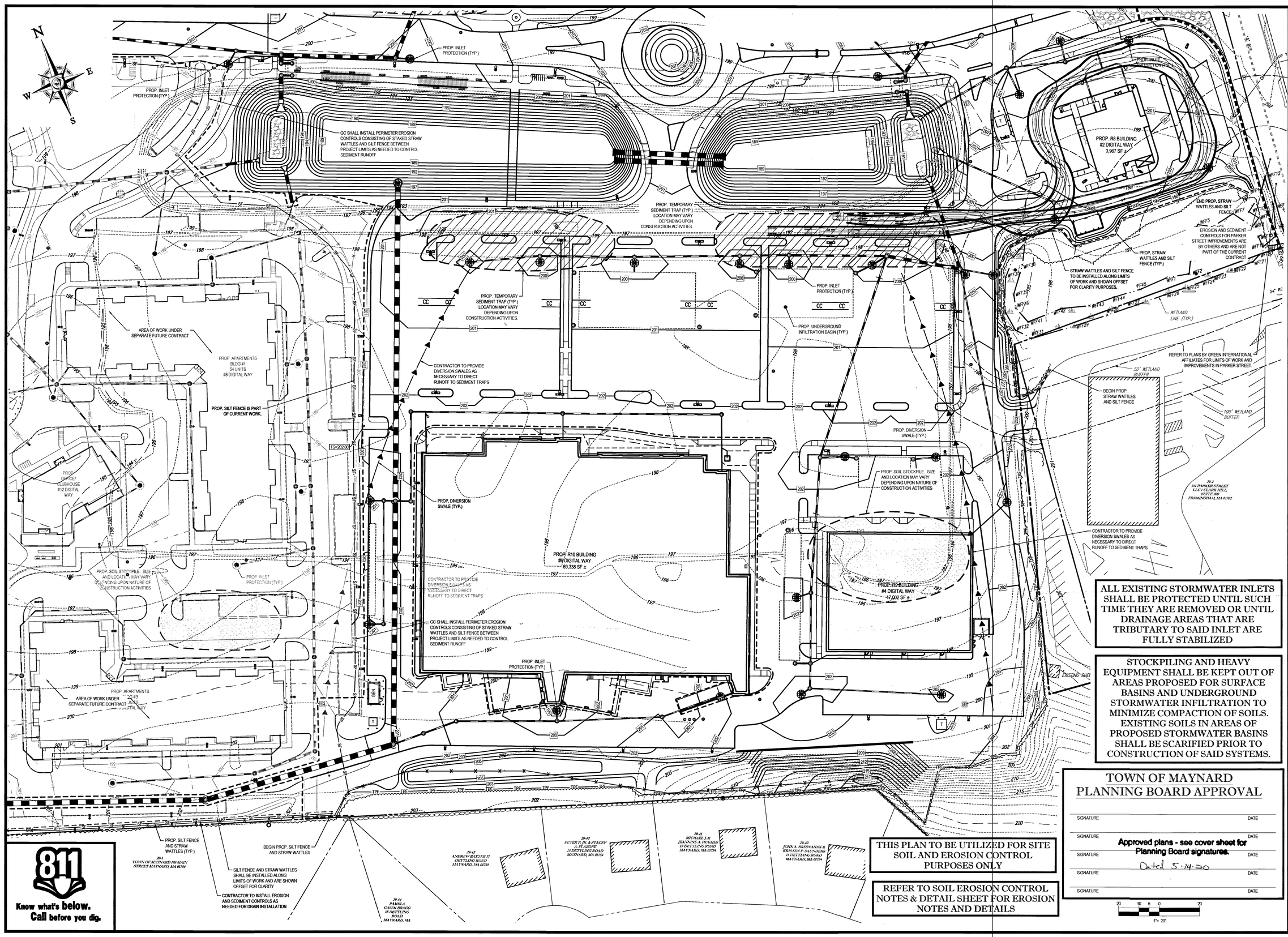

ALL EXISTING STORMWATER INLETS SHALL BE PROTECTED UNTIL SUCH TIME THEY ARE REMOVED OR UNTIL DRAINAGE AREAS THAT ARE TRIBUTARY TO SAID INLET ARE FULLY STABILIZED

STOCKPILING AND HEAVY EQUIPMENT SHALL BE KEPT OUT OF AREAS PROPOSED FOR SURFACE BASINS AND UNDERGROUND STORMWATER INFILTRATION TO MINIMIZE COMPACTION OF SOILS. EXISTING SOILS IN AREAS OF PROPOSED STORMWATER BASINS SHALL BE SCARIFIED PRIOR TO CONSTRUCTION OF SAID SYSTEMS.

THIS PLAN TO BE UTILIZED FOR SITE SOIL AND EROSION CONTROL PURPOSES ONLY

REFER TO SOIL EROSION CONTROL NOTES & DETAIL SHEET FOR EROSION NOTES AND DETAILS

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Dated 5.14.20

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COMMONWEALTH OF VIRGINIA LICENSE NO. 041877
RHODE ISLAND LICENSE NO. 16816
MAINE LICENSE NO. 6453

SHEET TITLE:
SOIL EROSION & SEDIMENT CONTROL PLAN "D"

SHEET NUMBER:
24 OF 36

REV 13 - 08/22/2019

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