

Killingly Engineering Associates

Civil Engineering & Surveying

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March 29, 2021

Ms. Margaret Washburn, ZEO, WEO
Town of Brooklyn
Clifford B. Green Memorial Center
69 South Main Street
Brooklyn, CT 06234

**RE: Vachon Chevrolet
Stormwater Basin Modification**

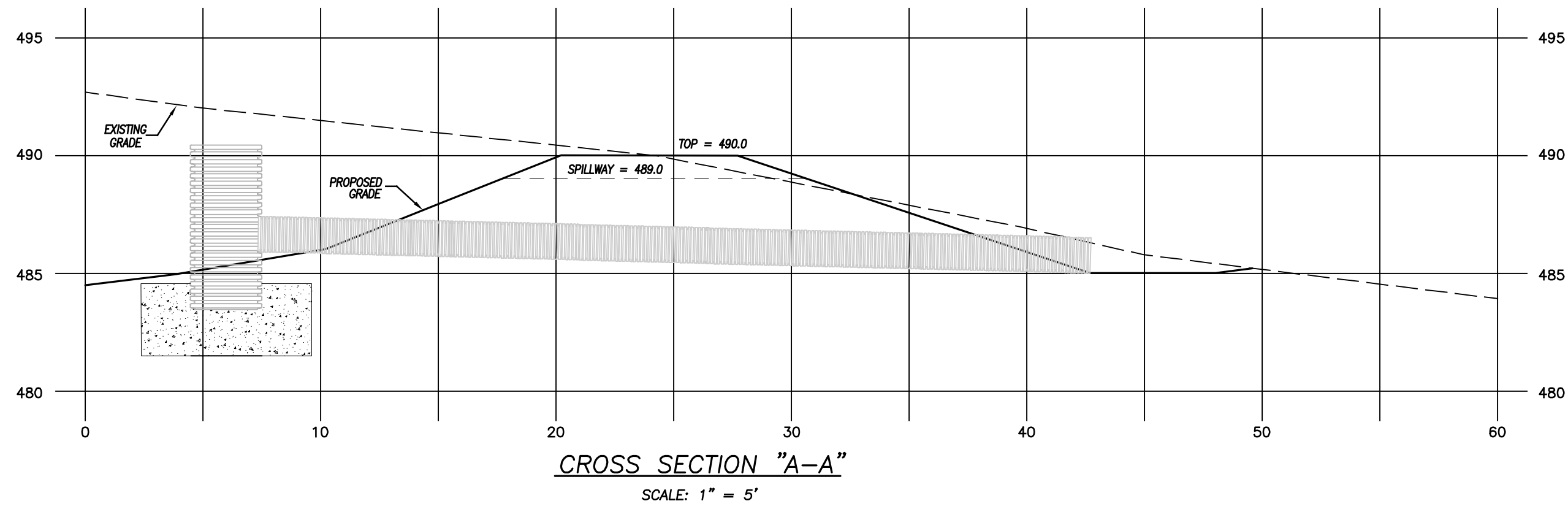
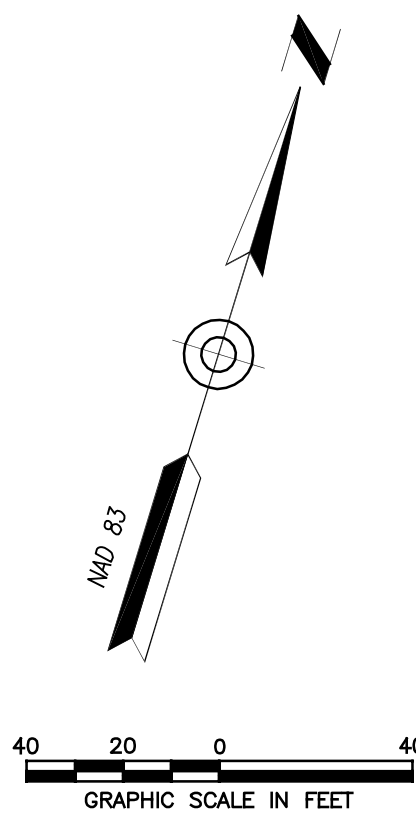
Dear Ms. Washburn:

Regarding the northernmost stormwater basin for the referenced project, per subsequent review by Syl Pauley, the bottom of the basin was raised from elevation 484.0 to 485.0 to raise it above the elevation of the adjacent wetlands and alleviate the potential for standing water in the basin. Although the basin will likely develop wetlands characteristics, extended periods of standing water have been eliminated due to raising the bottom elevation and allowing infiltration into the gravelly native soils. The footprint of the basin was not altered and therefore the proximities of approved activities adjacent to the wetlands have not changed.

Please feel free to call if there are any questions or clarifications required.

Sincerely:

Normand Thibeault, Jr., P.E.



SYMBOL	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE	MATURE HEIGHT
	<i>Juniperus scopulorum</i>	Moonglow Juniper	18	5'	16'-20'
Exceptionally showy, silvery blue foliage and broad pyramidal form makes a most attractive screen. A tough plants with dense branching that grows to 20' tall.					
	<i>Viburnum rhytidophyllum</i>	Leatherleaf Viburnum	17	3'-4'	6'-10'
This evergreen Viburnum (most are deciduous) has this olive green leaves that form a great green wall for screening. White fragrant flowers in the spring followed by red berries in the fall that provide food for birds.					
	<i>Acer rubrum</i>	Red Maple	14	3" Caliper	60'-80'

CURVE DATA		
C1 R = 5680.00' D = 1°45'30" L = 174.32' CH = S 71°56'28" W 174.32'	C2 R = 5680.00' D = 0°30'33" L = 50.48' CH = S 73°04'30" W 50.48'	C3 R = 5680.00' D = 2°15'41" L = 224.18' CH = S 74°27'37" W 224.18'

LEGEND

- IRON PIN TO BE SET
- IRON PIN FOUND
- CHD MONUMENT FOUND
- CHD MONUMENT POINT
- ⊥ SIGN
- ∅ UTILITY POLE
- CB CATCH BASIN
- MH MANHOLE
- SMH SANITARY SEWER MANHOLE
- INLAND WETLANDS FLAG
- - - 100 - - - EXISTING CONTOURS
- 100 PROPOSED CONTOURS
- SILT FENCE

LANDSCAPING REQUIREMENTS PER SECTION 7.C.5

- 7.C.5.1 10 S.F. of interior landscaping required for each parking space*. Based upon this requirement and 10' width per parking space, 118 spaces require 1,180 S.F. of interior landscaping. Center island provides 4,532 S.F.
- 7.C.5.4 At one deciduous tree having a caliper of 2.5" measured 4' above the root crown and at least 8' in height shall be provided for each 100 S.F. of required interior landscaping. 12 required — 14 provided.

SCREENING AND BUFFERING REQUIREMENTS PER SECTION 7.C.6

- 7.C.6.3 Buffer shall have a minimum width of 20 feet. Greater than 20' provided.
- 7.C.6.4 Buffer area shall:
a. Be of evergreen planting of such type, height, spacing and arrangement as in the judgement of the Commission will effectively screen the activity from the neighboring residential area.
b. At a minimum shall consist of trees 6' in height planted at intervals of 10' on center.

NOTES:

- This survey has been prepared pursuant to the Regulations of Connecticut State Agencies Sections 20-300b-1 through 20-300b-20 and the "Standards for Surveys and Maps in the State of Connecticut" as adopted by the Connecticut Association of Land Surveyors, Inc. on September 26, 1996;
- This survey conforms to a Class "A-2" horizontal accuracy.
- Topographic features conform to a Class "1-2", "V-2" vertical accuracy.
- Survey Type: Improvement Location Survey.
- Zone = PC.
- Owner of record:
Map 41, Lot 14 = Vachon Brooklyn, LLC
957 Washington St., Attleboro, MA 02703
Volume 620, Page 163
Map 41, Lot 13A = Vachon Brooklyn, LLC
957 Washington St., Attleboro, MA 02703
Volume 632, Page 114
- Wetlands shown were delineated in the field by Joseph Theroux, Certified Soil Scientist, in September 2019.
- North orientation, bearings and coordinate values shown are based on North American Datum of 1983 (NAD 83) and are taken from actual field measurements of CGS Random Points B9262 and B9264.
- Elevations shown are based on an assumed datum. Contours shown are taken from actual field survey. Contour interval = 2'.
- Before any construction is to commence contact "CALL BEFORE YOU DIG" at 1-800-922-4455 or 811.

DATE	DESCRIPTION
3/09/2021	PER TOWN REVIEW
10/07/2020	PER PLANNER REVIEW
03/31/2020	PER NECCOG REVIEW
03/10/2020	PER SOIL SCIENTIST REPORT & STAFF COMMENTS

IMPROVEMENT LOCATION SURVEY
SITE DEVELOPMENT PLAN No. 2
PREPARED FOR
VACHON BROOKLYN, LLC
512 PROVIDENCE ROAD (ROUTE 6)
BROOKLYN, CONNECTICUT

Killingly Engineering Associates
Civil Engineering & Surveying
114 Westcott Road
P.O. Box 421
Killingly, Connecticut 06241
(860) 779-7299
www.killinglyengineering.com

DATE: 1/07/2020	DRAWN: AMR
SCALE: 1" = 40'	DESIGN: NET
SHEET: 4 OF 5	CHK BY: GG
DWG. No: CLIENT FILE	JOB No: 19129

PERCOLATION TEST RESULT - November 4, 2020
Killingly Engineering Associates - Normand Thibault, P.E.
TP-2

Depth = 30" Rate = 3 min./in.

Time	Reading
9:50	2"
9:53	6.5"
9:56	10.5"
9:59	12.5"
10:02	14.5"
10:05	18"
10:08	17"
10:11	18"

Soil Profile - Adjacent to perc

Time	Reading
0-8"	Topsoil/organics
10-18"	Dark Brown Sandy Loam
18"-36"	Coarse Sandy Gravel

Excavation by hand methods

TP-3

Depth = 28" Rate = < 1 min./in.

Time	Reading
9:52	2"
9:55	11.5"
9:58	19"
10:01	26.5"
10:04	Dry
10:07	1"
10:10	10"
10:13	17.5"
10:16	26"
10:19	Dry

Soil Profile - Adjacent to perc

Time	Reading
0-7"	Topsoil/organics
7"-17"	Gravelly Loamy Sand
17"-36"	Coarse Gravel

Excavation by hand methods

*Rock at bottom of hole

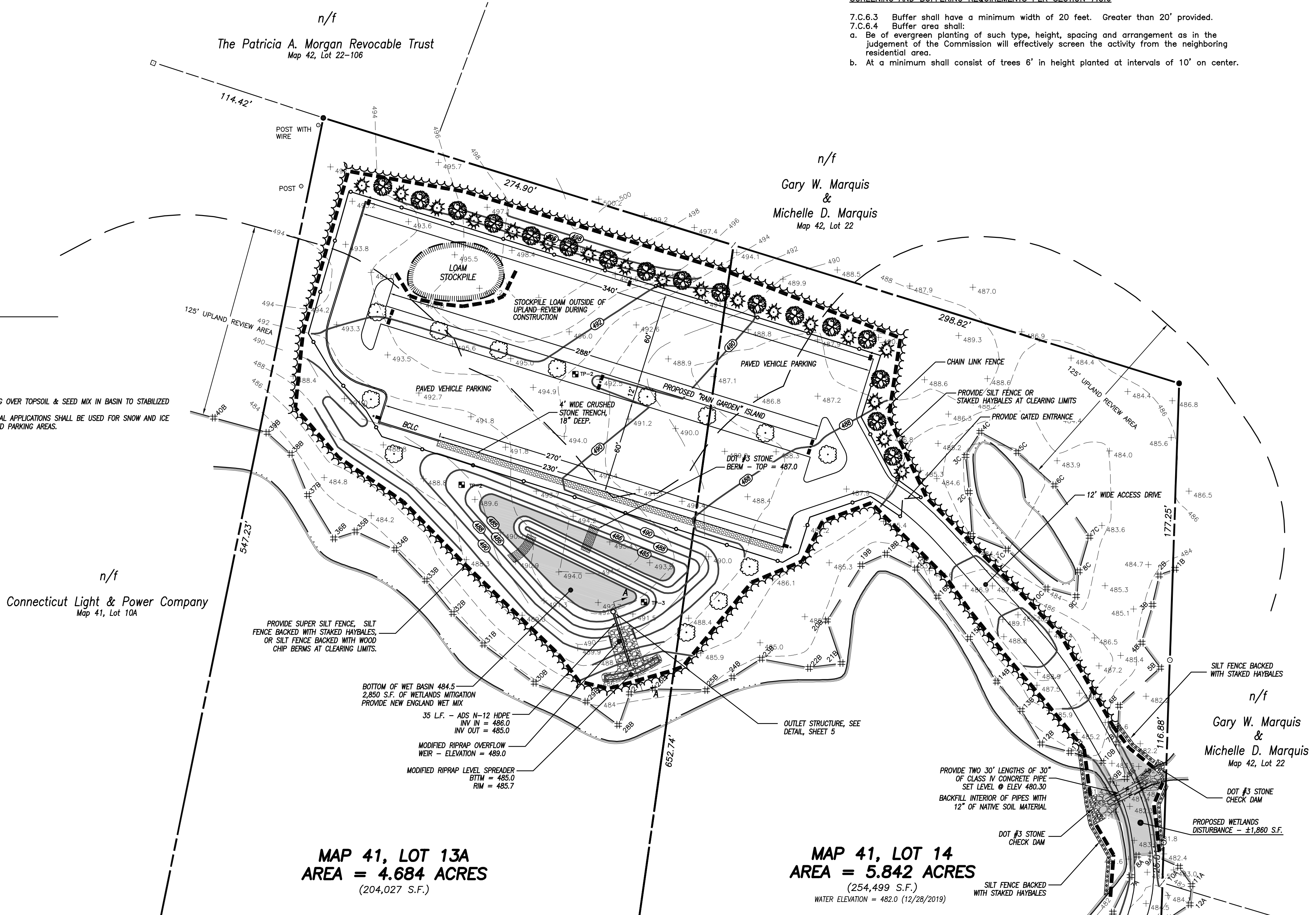
TP-4

*Depth = 26" Rate = < 1 min./in.

Time	Reading
10:45	0"
10:48	8"
10:51	15.5"
10:54	22.5"
10:57	Dry

Soil Profile - Adjacent to perc

*Rock at bottom of hole



MAP 41, LOT 13A
AREA = 4.684 ACRES
(204,027 S.F.)

MAP 41, LOT 14
AREA = 5.842 ACRES
(254,499 S.F.)
WATER ELEVATION = 482.0 (12/28/2019)

SEE SITE DEVELOPMENT PLAN No. 1

APPROVED BY THE BROOKLYN
PLANNING AND ZONING COMMISSION

CHAIRMAN	DATE
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Expiration date per Sec. 8.26C,
Connecticut General Statutes: _____

ENDORSED BY THE BROOKLYN INLAND
WETLANDS COMMISSION

CHAIRMAN	DATE
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BEFORE YOU DIG
CALL BEFORE YOU DIG
AT LEAST TWO FULL BUSINESS DAYS
BEFORE DIGGING OR DISTURBING EARTH
DIAL 811 OR 1-800-922-4455

THIS MAP IS PRODUCED
BY ORIGINAL INK
ON MYLAR BY
KILLINGLY ENGINEERING
ASSOCIATES, LLC

NORMAND THIBEAULT, JR., P.E. No. 22834 DATE _____

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT
AS NOTED HEREON,

GREG A. GLAUDE, L.S. LIC. NO. 70191 DATE _____

NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS
THE ORIGINAL SEAL AND SIGNATURE OF THE LAND SURVEYOR.