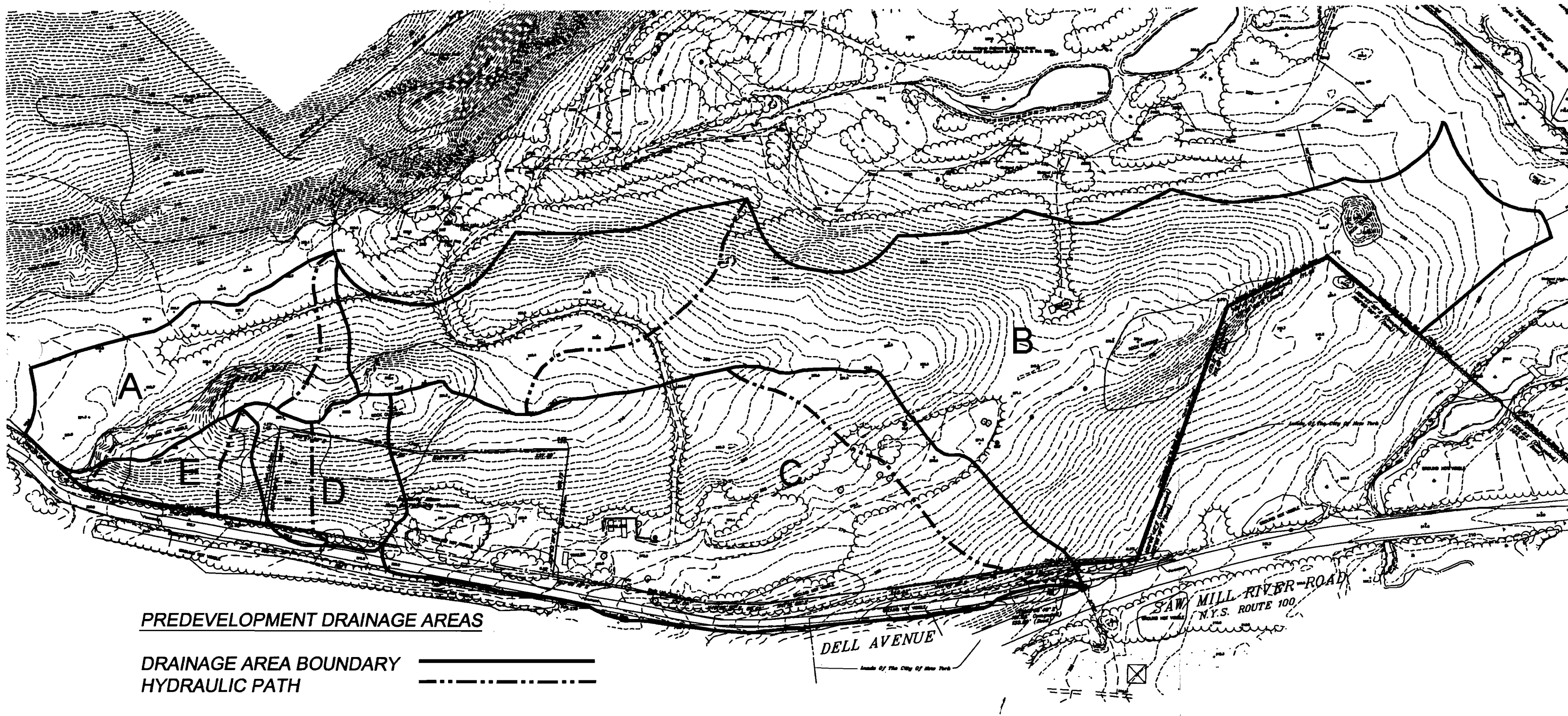


APPENDICES

- **PREDEVELOPMENT DRAINAGE AREA**
- **POSTDEVELOPMENT DRAINAGE AREA**
- **SOILS MAP**
- **18-INCH ORIFICE COMPUTATION**
- **24-INCH ORIFICE COMPUTATION**
- **30-INCH ORIFICE COMPUTATION**

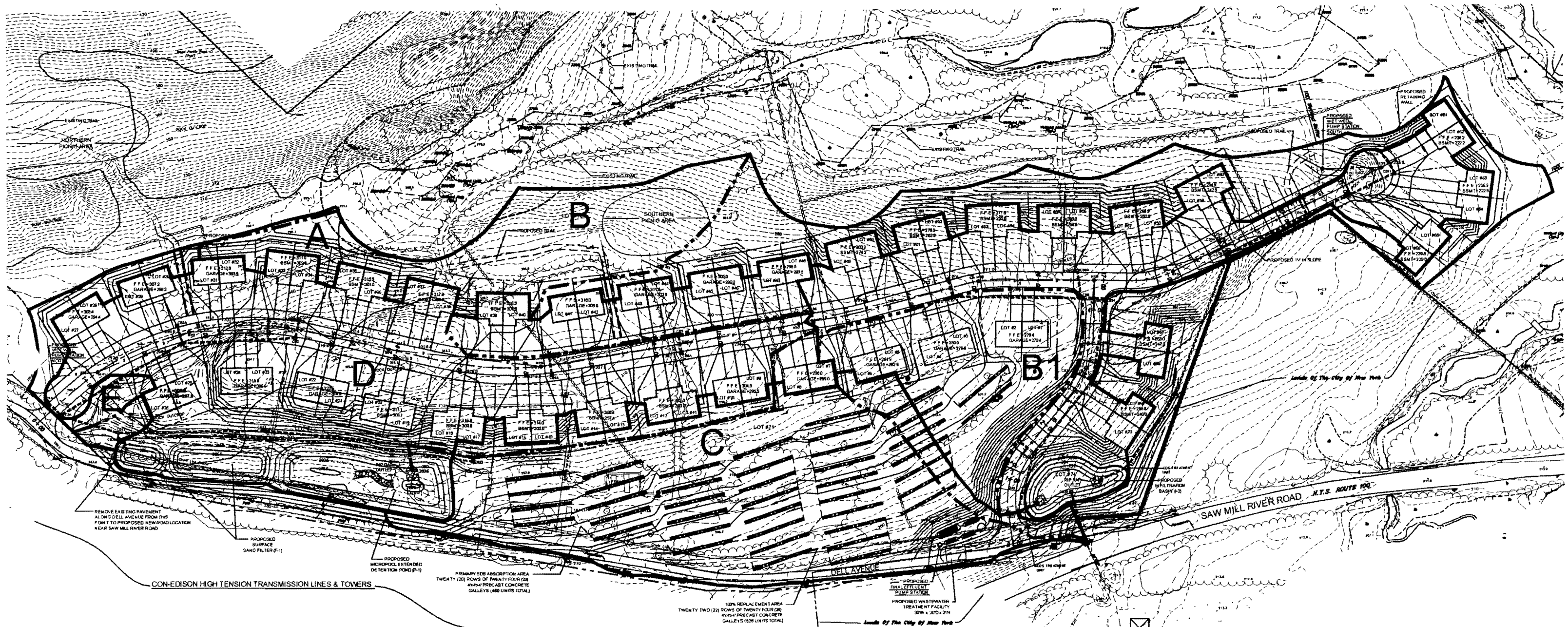


PREDEVELOPMENT DRAINAGE AREAS

DRAINAGE AREA BOUNDARY —————
HYDRAULIC PATH - - - - -

DELL AVENUE

SAW MILL RIVER ROAD
N.Y.S. ROUTE 100



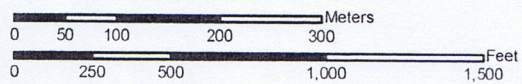
POSTDEVELOPMENT DRAINAGE AREAS

DRAINAGE AREA BOUNDARY 
HYDRAULIC PATH 

Soil Map—Westchester County, New York
(Croton Overlook)



Map Scale: 1:7,030 if printed on A size (8.5" x 11") sheet



ORIFICE

ORIFICE = 18.00 INCHES

ELEV. (FT.)	FLOW (CFS)
0.00	0.00
0.10	0.14
0.20	0.40
0.30	0.74
0.40	1.14
0.50	1.59
0.60	2.09
0.70	2.64
0.80	3.22
0.90	3.84
1.00	4.50
1.10	5.19
1.20	5.92
1.30	6.67
1.40	7.45
1.50	7.37
1.60	7.84
1.70	8.29
1.80	8.72
1.90	9.12
2.00	9.51
2.10	9.89
2.20	10.25
2.30	10.59
2.40	10.93
2.50	11.26
2.60	11.57
2.70	11.88
2.80	12.18
2.90	12.48
3.00	12.76

FORMULA USED $Q = C * A * \text{SQRT } 2gh$ HEAD > Dia
 $Q = 3 * D * \text{HEAD}^{1.5}$ HEAD < Dia

ORIFICE

ORIFICE = 24.00 INCHES

ELEV. (FT.)	FLOW (CFS)
0.00	0.00
0.20	0.54
0.40	1.52
0.60	2.79
0.80	4.29
1.00	6.00
1.20	7.89
1.40	9.94
1.60	12.14
1.80	14.49
2.00	15.13
2.20	16.57
2.40	17.90
2.60	19.13
2.80	20.29
3.00	21.39
3.20	22.44
3.40	23.43
3.60	24.39
3.80	25.31

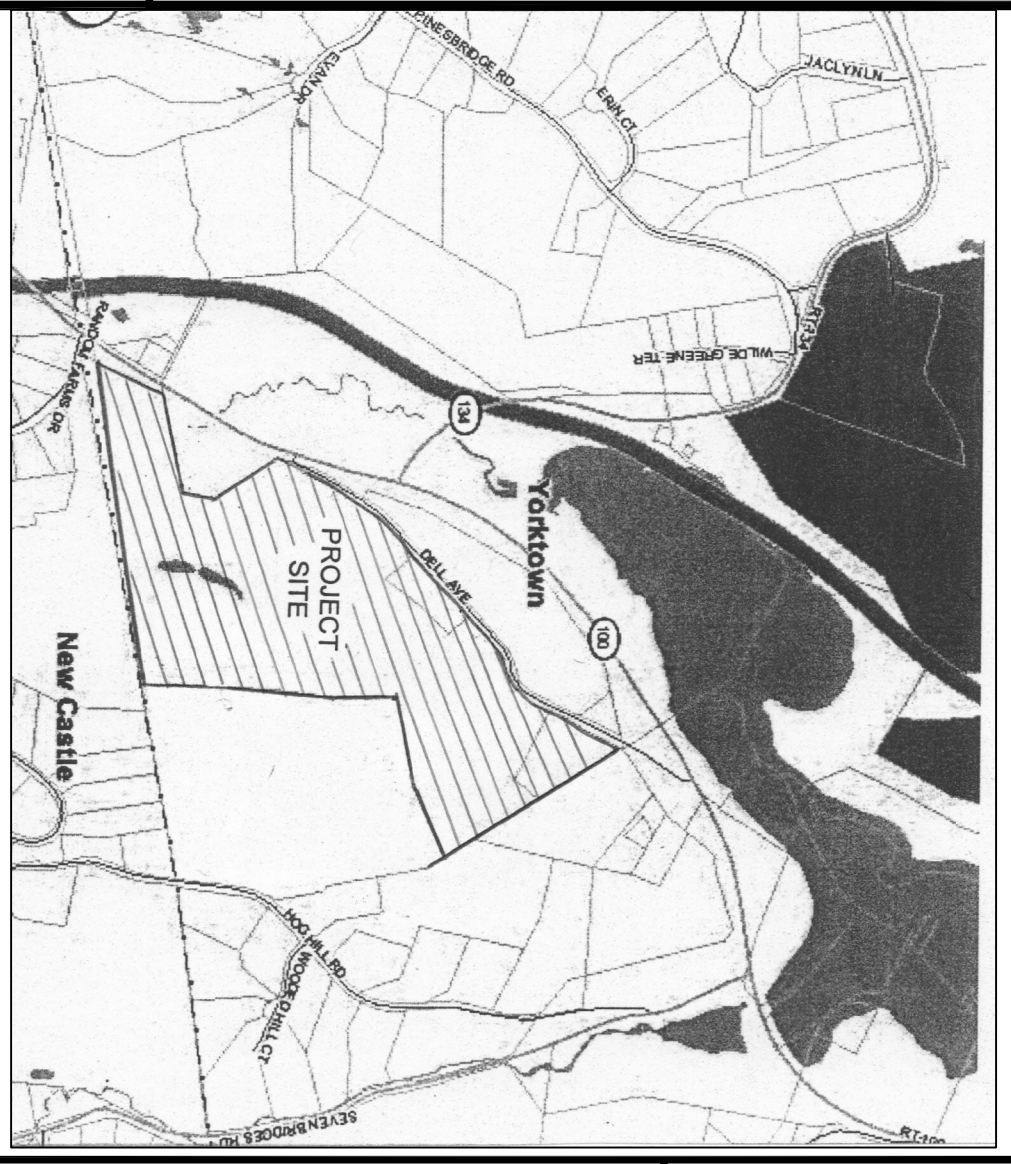
FORMULA USED $Q = C * A * \text{SQR } 2gh$ HEAD > Dia
 $Q = 3 * D * \text{HEAD}^{1.5}$ HEAD < Dia

ORIFICE

ORIFICE = 30.00 INCHES

ELEV. (FT.)	FLOW (CFS)
0.00	0.00
0.20	0.67
0.40	1.90
0.60	3.49
0.80	5.37
1.00	7.50
1.20	9.86
1.40	12.42
1.60	15.18
1.80	18.11
2.00	21.21
2.20	24.47
2.40	27.89
2.60	27.46
2.80	29.43
3.00	31.27
3.20	33.01
3.40	34.66
3.60	36.23
3.80	37.74

FORMULA USED $Q = C * A * \text{SQRT } 2gh$ HEAD > Dia
 $Q = 3 * D * \text{HEAD}^{1.5}$ HEAD < Dia



AREA MAP. SCALE: 1"=1000'
 TAX MAP SECTION 2015, BLOCK 1, LOT 1 & LOT 2



LOCATION MAP. SCALE: 1"=2000'
 TAKEN FROM U.S.G.S. MAP

TOWN OF YORKTOWN PLANNING BOARD

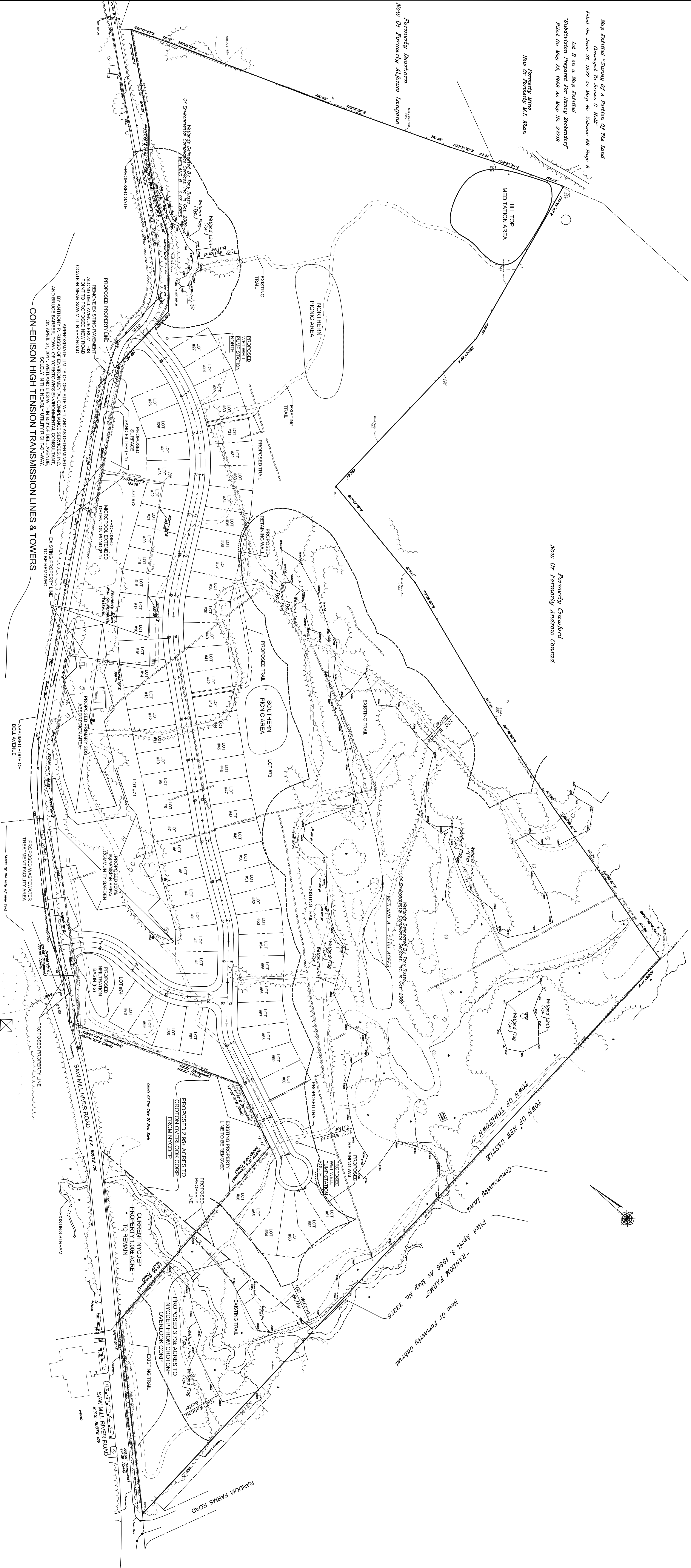
OWNERS CERTIFICATION
 WE, THE UNDERSIGNED OWNERS OF THE PROPERTY SHOWN HEREON, HEREBY CERTIFY THAT WE ARE FAMILIAR WITH THIS MAP, ITS CONTENTS AND DETAILS, AND HEREBY AGREE TO THE TERMS AND CONDITIONS EXPRESSED HEREON.

SURVEYOR'S CERTIFICATION
 I, DONALD D. COLEMAN, U.S. HEREBY CERTIFY THAT THE SURVEY SHOWN HEREON IS BASED UPON AN ACTUAL FIELD SURVEY PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION ON OR BEFORE THE DATE SHOWN.

TIM MEELOON
 P.O. BOX 1132
 YORKTOWN HEIGHTS, NEW YORK 10588
 DATE

TOPOGRAPHIC DATUM: U.S.G.S.
 PLANIMETRIC FEATURES TAKEN FROM TOPOGRAPHY BY COLLEEN AHERN SURVEY, INC., NEWTON, CT 06470
 BOUNDARY AND TOPOGRAPHIC SURVEY PREPARED BY: 1929 COMMERCIAL STREET, YORKTOWN HEIGHTS, NEW YORK 10588

DONALD D. COLEMAN, U.S. LICENSE NO. 49822 DATE



SITE DATA:

TAX MAP SECTION 2015, BLOCK 1, LOT 1 AND LOT 2
 EXISTING ZONE: R-180 SINGLE FAMILY RESIDENTIAL DISTRICT
 PROPOSED ZONE: RSP-1 RESIDENCE DISTRICT (AGE-ORIENTED COMMUNITIES)
 TOTAL AREA: 61,109 ACRES * 1,554 ACRES * 62,746 ACRES
 TOTAL NUMBER OF LOTS PROPOSED: 74
 TOTAL NUMBER OF ACREFOOT UNITS PROPOSED: 7.0
 FLOOR AREA RATIO USAGE: 0.23 REQUIRED, 0.116 PROPOSED

WETLAND NOTES:
 FEDERAL WETLANDS IDENTIFICATION PERFORMED BY TONY GIUSCO OF ENVIRONMENTAL COMPLIANCE SERVICES, INC. IN OCTOBER 2009.
 THE BOUNDARIES OF THE WETLAND ARE SHOWN THROUGH SHOWN AND WETLAND 3A WERE COMPARED IN THE FIELD BY BRUCE BARBER, TOWN OF YORKTOWN, ON MAY 11, 2010.
 THE REMAINING BOUNDARY LINES OF WETLAND 3A WERE TAKEN FROM THE PLAN ENTITLED "WETLAND 3A BOUNDARY LINES" PREPARED BY DONALD D. COLEMAN, U.S. LAST REVISION ON MAY 9, 2011.

LEGEND:

PROPOSED BOUNDARY WALL

FEDERAL WETLAND BOUNDARY

EXISTING STONE WALL

EXISTING TREE LINE

EXISTING WELL

EXISTING CATCH BASIN AND OUTLET

EXISTING UTILITY POLE

EXISTING CHAIN LINK FENCE

CROTON OVERLOOK
 SAW MILL RIVER ROAD & DELL AVENUE
 TOWN OF YORKTOWN, WESTCHESTER COUNTY, NEW YORK
 CONCEPTUAL SUBDIVISION AND SITE PLAN

LAWRENCE J. PAGGI, PE, PC
 CONSULTING ENGINEER
 43 BROAD STREET
 FISHKILL, NEW YORK 12524
 Civil, Sanitary & Site Planning
 Site Planning
 Environmental Assessment

Project No. 2010-001
 Date: September 27, 2010
 Scale: 1" = 100'

SHEET #
C1
 1 OF 9



SOIL TESTS WERE PERFORMED BY LAWRENCE J. PAGGI, P.E., P.C. ON JUNE 16, 2010 AND WERE WITNESSED BY THE WESTCHESTER COUNTY HEALTH DEPARTMENT REPRESENTATIVE FREDERICK BRICK.

DPT	DEPTH	DESCRIPTION OF SOILS
1	10'	12" TOP SOIL: BALANCE SILTY SANDY LOAM
2	10'	12" TOP SOIL: BALANCE SILTY SANDY LOAM
3	128"	12" TOP SOIL: BALANCE SILTY SANDY LOAM
4	10.5'	12" TOP SOIL: BALANCE SILTY SANDY LOAM
5	11'	12" TOP SOIL: BALANCE SILTY SANDY LOAM
6	11'	12" TOP SOIL: BALANCE SILTY SANDY LOAM
7	11'	12" TOP SOIL: BALANCE SILTY SANDY LOAM
8	9.4'	12" TOP SOIL: BALANCE SILTY SANDY LOAM
9	11'	12" TOP SOIL: BALANCE SILTY SANDY LOAM
10	12'	12" TOP SOIL: BALANCE SILTY SANDY LOAM
11	128"	12" TOP SOIL: BALANCE SILTY SANDY LOAM
12	10'	12" TOP SOIL: BALANCE SILTY SANDY LOAM, ROCK AT BOTTOM
13	8'	12" TOP SOIL: BALANCE SILTY SANDY LOAM
14	9.5'	12" TOP SOIL: BALANCE SILTY SANDY LOAM
15	9'	12" TOP SOIL: BALANCE SILTY SANDY LOAM
16	8'	36" BROWN SANDY LOAM, 48" GREY SILTY SAND, BALANCE BROWN SAND WITH OCCASIONAL ROCK; NO WATER; ROCK AT BOTTOM
17	16'	GRAVEL, 100' LIGHT BROWN FINE SAND WITH LITTLE SILT
18	10'	48" VARIUS BROWN LOAM, 66" LIGHT BROWN SILTY LOAM, BALANCE BROWN SANDY LOAM
9.5'	18'	18" DARK BROWN LOAM, BALANCE MOTTLED LIGHT BROWN SILTY LOAM

Notes	Start Time	End Time	Drop (ft)	Rate (min/ft)	Notes	Start Time	End Time	Drop (ft)	Rate (min/ft)	Notes
Hole #1	10:44	10:43	25'	30	15 min./ft	10:06	10:06	10'	30	15 min./ft
	10:44	10:43	25'	30		10:06	10:06	10'	30	
	10:44	10:43	25'	30		10:06	10:06	10'	30	
	10:44	10:43	25'	30		10:06	10:06	10'	30	
	10:44	10:43	25'	30		10:06	10:06	10'	30	
Hole #2	10:44	10:43	25'	30	15 min./ft	10:06	10:06	10'	30	15 min./ft
	10:44	10:43	25'	30		10:06	10:06	10'	30	
	10:44	10:43	25'	30		10:06	10:06	10'	30	
	10:44	10:43	25'	30		10:06	10:06	10'	30	
	10:44	10:43	25'	30		10:06	10:06	10'	30	
Hole #3	10:44	10:43	25'	30	15 min./ft	10:06	10:06	10'	30	15 min./ft
	10:44	10:43	25'	30		10:06	10:06	10'	30	
	10:44	10:43	25'	30		10:06	10:06	10'	30	
	10:44	10:43	25'	30		10:06	10:06	10'	30	
	10:44	10:43	25'	30		10:06	10:06	10'	30	

LAWRENCE J. PAGGI, P.E., P.C.
CONSULTING ENGINEERING
4-3 BROAD STREET
FISHKILL, NEW YORK 12524

Civil, Structural,
& Site Engineering
Site Planning
Environmental
Assessment

CROTON OVERLOOK
SAW MILL RIVER ROAD & DELL AVENUE
TOWN OF YORKTOWN, WESTCHESTER COUNTY, NEW YORK

TEST PIT PLAN

JOB NUMBER:
09-1111-15

DATE:
SEPTEMBER 27, 2010

SCALE:
1" = 40'

REVISIONS:

SHEET #
C7

7 OF 9

LEGEND:

- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED MOBILE SITE
- FEDERAL WETLAND
- EXISTING TREE LINE
- EXISTING WELL
- EXISTING CATCH BASIN AND CURB
- EXISTING UTILITY POLE
- EXISTING CHAINLINK FENCE
- DEEP TEST LOCATION
- PERCOLATION TEST