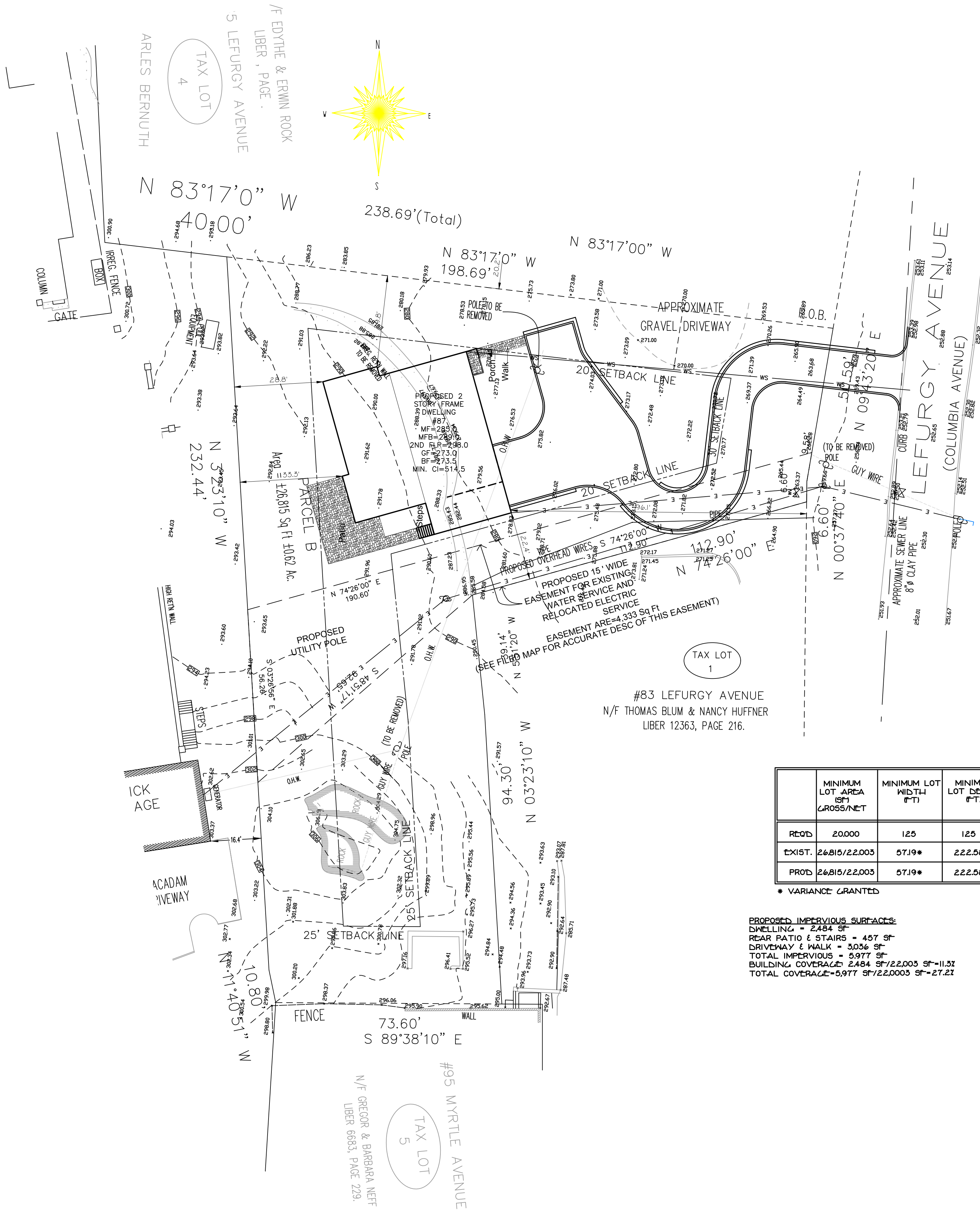


REFERENCES:
-ALL BOUNDARY & TOPOGRAPHY INFORMATION IS REFERENCED FROM A SURVEY PREPARED BY SUMMIT LAND SURVEYING PC, LAST REVISED MARCH 25, 2019.
-SURVEY INFORMATION REFERENCED FROM A SURVEY PREPARED BY SUMMIT LAND SURVEYING PC, LAST REVISED OCTOBER 3, 2019.



GENERAL NOTES:
1. ADDITIONAL SOIL TESTING IS REQUIRED FOR THE PROPOSED INFILTRATION FACILITY.

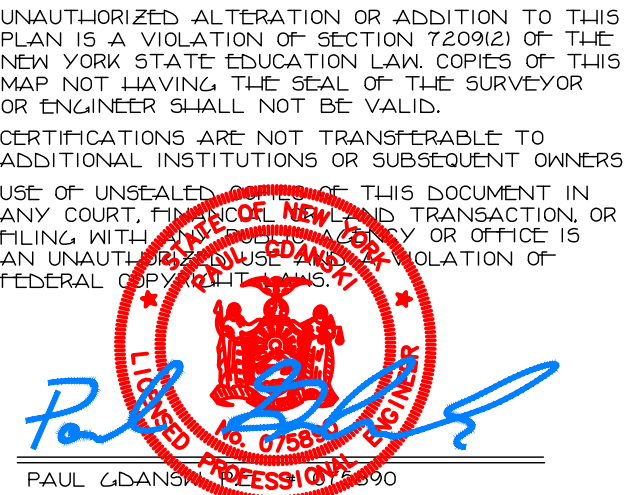
Drywell Design:		
Urban Land-Woodbridge "D"		
Development size =	0.1372 Acre	
Undeveloped SCS Curve No. =	79.000 Wood-Grass Comb	
Developed SCS Curve No. =	98.000 Impervious	
1. Select Design Storm		
100 year, 24-hour	9.3000	
2. Type of subsurface disposal system:		
Precast drywell with 3-3/4" crushed stone		
3. Determine Percolation Rate:		
Percolation Rate:	1.0000 inches	
Drop	30.0000 minutes	
4. Area of Percolation (Ap):		
Surface area of Cylinder		
A=PI*Di*Di/4		
Di =	1.0000 foot	
h=	8.0000 inches	
Ac =	2.2239 Ft^2	
Bottom Area		
Ab=PI*r^2		
Ab =	0.7854 Ft^2	
Volume of Percolation:		
Ap*Ac*Ab	3.0107 Ft^3	
Ap*Ab*h	0.0054 Ft^3	
Soil Percolation Rate	0.0007 Ft^3/Ft^2/Min	
S=volume/area*time	1.0438 Ft^3/Ft^2/day	
S=(minus clogging factor of 25%)	0.7828 Ft^3/Ft^2/day	
4. Calculate Required Storage Volume:		
100yr, 24 hour rainfall =	9.3000 inches	
From Table 2-1 of TR-55		
Existing CN=	79.0000 therefore depth V= 6.70 inches	
Proposed CN=	98.0000 therefore depth V= 9.10 inches	
Delta V=	2.4000 inches	
V=delta V*Area		
V=	1195.4000 Ft^3	
5. Calculate Volume per Drywell:		
V=PI*r^2*height		
Thickness of Stone=	3.0000 feet	
Thickness of drywell wall=	0.3330 feet	
Diameter of drywell=	6.0000 feet	
Height of drywell=	6.0000 feet	
V=	337.6500 Ft^3	
6. Calculate 24-hour percolation volume per drywell (Vp):		
Vp=Vp/Vp/Vp		
Vp=PI*r^2*height		
Vp=	98.6083 Ft^3/day/drywell	
Note: Percolation through bottom only		
7. Calculate the total 24-hour volume per drywell (Vt):		
Vt=Vp/Vp/Vp		
Vt=	436.2583 Ft^3	
8. Determine number of drywells required (DW):		
DW=Vt/Vp	2.7	
DW=	3	

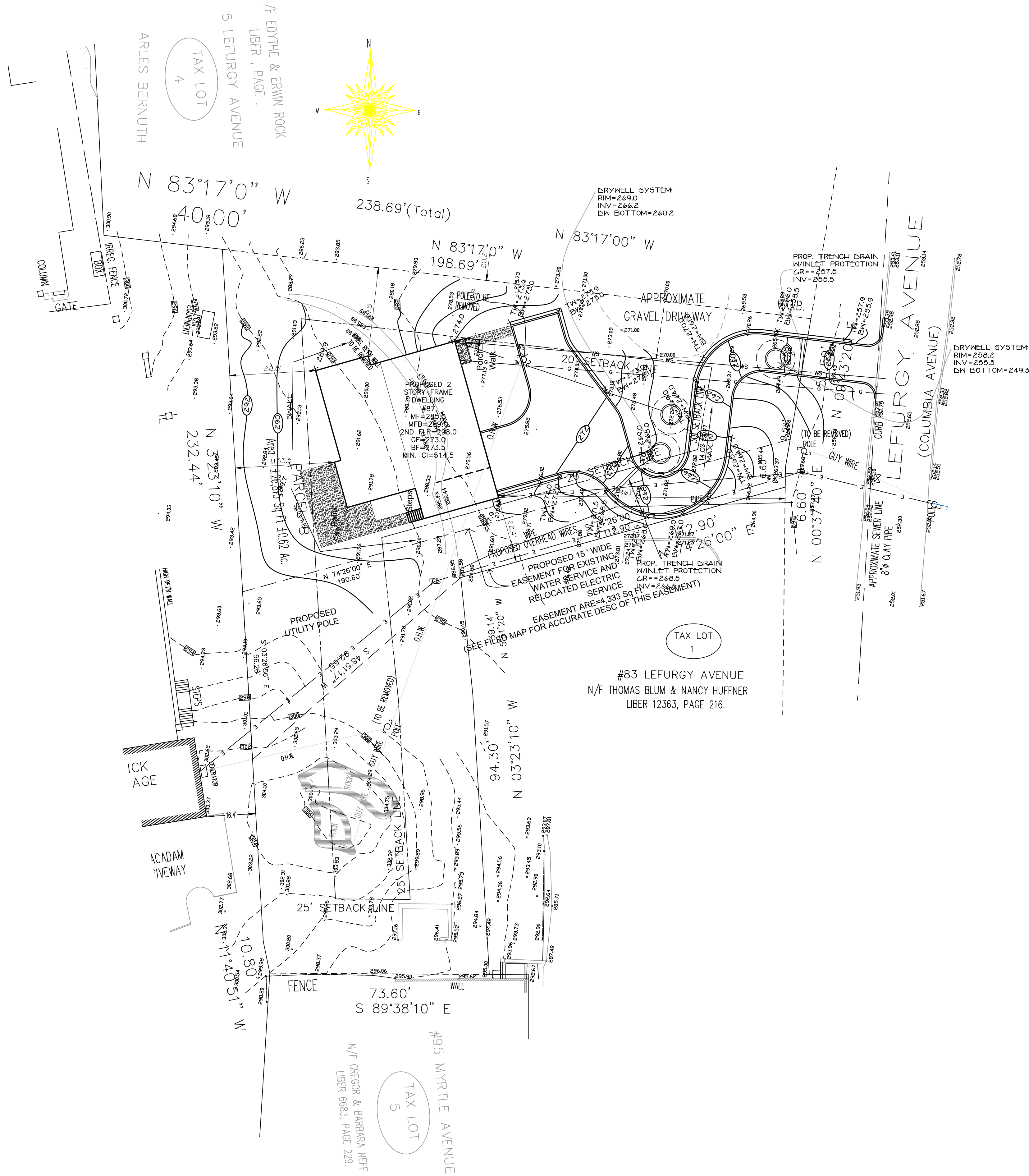
	MINIMUM LOT AREA (SF) GROSS/NET	MINIMUM LOT WIDTH (FT)	MINIMUM LOT DEPTH (FT)		FRONT YARD (FT)	SIDE YARD (FT)	TOTAL SIDE YARD (FT)	REAR YARD (FT)	MAXIMUM LOT COV. BY BLDGS. (%)	MAXIMUM LOT COV. BY IMPERVIOUS SURFACE (%)	MAXIMUM BUILDING HEIGHT (STORIES/FT)	OFF-STREET PARKING		
RECD	20,000	125	125		30	20	50	25	18.0	40.0	2.5 / 35	2		
EXIST.	26,815/22,003	57.19*	222.58		NA	NA	NA	NA	NA	NA	NA	NA		
PROD	26,815/22,003	57.19*	222.58		96.1	20.2	42.6*	28.8	11.5	27.2	2.5 / 25 PER ACRL	40 PER ACRL		

* VARIANCE GRANTED

PROPOSED IMPERVIOUS SURFACES:
DWELLING = 2,484 SF
REAR PATIO & STAIRS = 457 SF
DRIVEWAY & WALK = 3,006 SF
TOTAL IMPERVIOUS = 5,947 SF
BUILDING COVERAGE = 2,484 SF/22,003 SF = 11.3%
TOTAL COVERAGE = 5,947 SF/22,003 SF = 27.2%

REVISIONS	
1 5/3/23 REVISE	
LAYOUT PLAN FOR ANAND O LEFURGY AVENUE TAX LOT 3,5-17-2 LOCATED IN THE VILLAGE OF DOBBS FERRY TOWN OF GREENBURGH WESTCHESTER COUNTY, NEW YORK GRAPHIC SCALE	
80 10 10 0 0 20 40 60	
PAUL GDANSKI, PE, PLLC 633 WOODMONT LANE SLOATSBURG, N.Y. 10974 TEL: (917) 418-0999	
LEFURGY	
DATE MAR. 27, 2023	
SCALE 1" = 20'	
DWG 1 OF 5	





UNAUTHORIZED ALTERATION OR ADDITION TO THIS PLAN IS A VIOLATION OF SECTION 7209(2) OF THE NEW YORK STATE EDUCATION LAW. COPIES OF THIS MAP NOT HAVING THE SEAL OF THE SURVEYOR OR ENGINEER SHALL NOT BE VALID.

CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS. USE OF UNSEALED COPIES OF THIS DOCUMENT IN ANY COURT PROCEEDING AND TRANSACTION OR FILING WITH ANY STATE, COUNTY, CITY OR OFFICE IS AN UNLAWFUL VIOLATION OF FEDERAL EXHIBIT 100.

PAUL GDANSKI, PE, PLLC
633 WOODMONT LANE
SLOATSBURG, N.Y. 10974
TEL: (917) 418-0999

REVISIONS	
1	5/3/23 REVISE
GRADING & UTILITY PLAN FOR AND 83 LEFURGY AVENUE TAX LOT 3,5-17-2 LOCATED IN THE VILLAGE OF DOBBS FERRY TOWN OF GREENBURGH WESTCHESTER COUNTY, NEW YORK GRAPHIC SCALE	
20 15 10 5 0 10 20 40 60	
PAUL GDANSKI, PE, PLLC	LEFURGY
633 WOODMONT LANE SLOATSBURG, N.Y. 10974 TEL: (917) 418-0999	DATE MAR. 27, 2023
SCALE 1" = 20'	2 OF 5
PL 8/25/20	

