



PROJECT: S.R. 161 NOISE WALLS	PROJECT NO:	SHEET: OF:
CLIENT:	PREPARED BY:	DATE: 2023-11-27
DESCRIPTION: SCAPZ WIDTHS	CHECKED BY:	OTHER: REV. 2024-01-10

SCAPZ WIDTH IS BASED ON THE EQUATION:

$$\text{WIDTH (IN FEET)} = 147(\text{DA})^{0.38}$$

WHERE DA = DRAINAGE AREA OF THE STREAM
IN SQUARE MILES

ROCKY FORK CREEK

DA = 9.57 SQUARE MILES

$$\text{WIDTH} = 147(9.57)^{0.38} = 346.79 \text{ FT}$$

NOTE: FLOODWAY WIDTH = 500' ± THEREFORE
USE 500' AS SCAPZ WIDTH

SUGAR RUN CREEK

DA = 3.5 SQUARE MILES

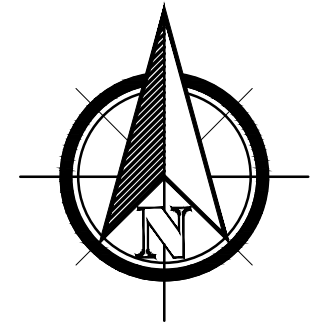
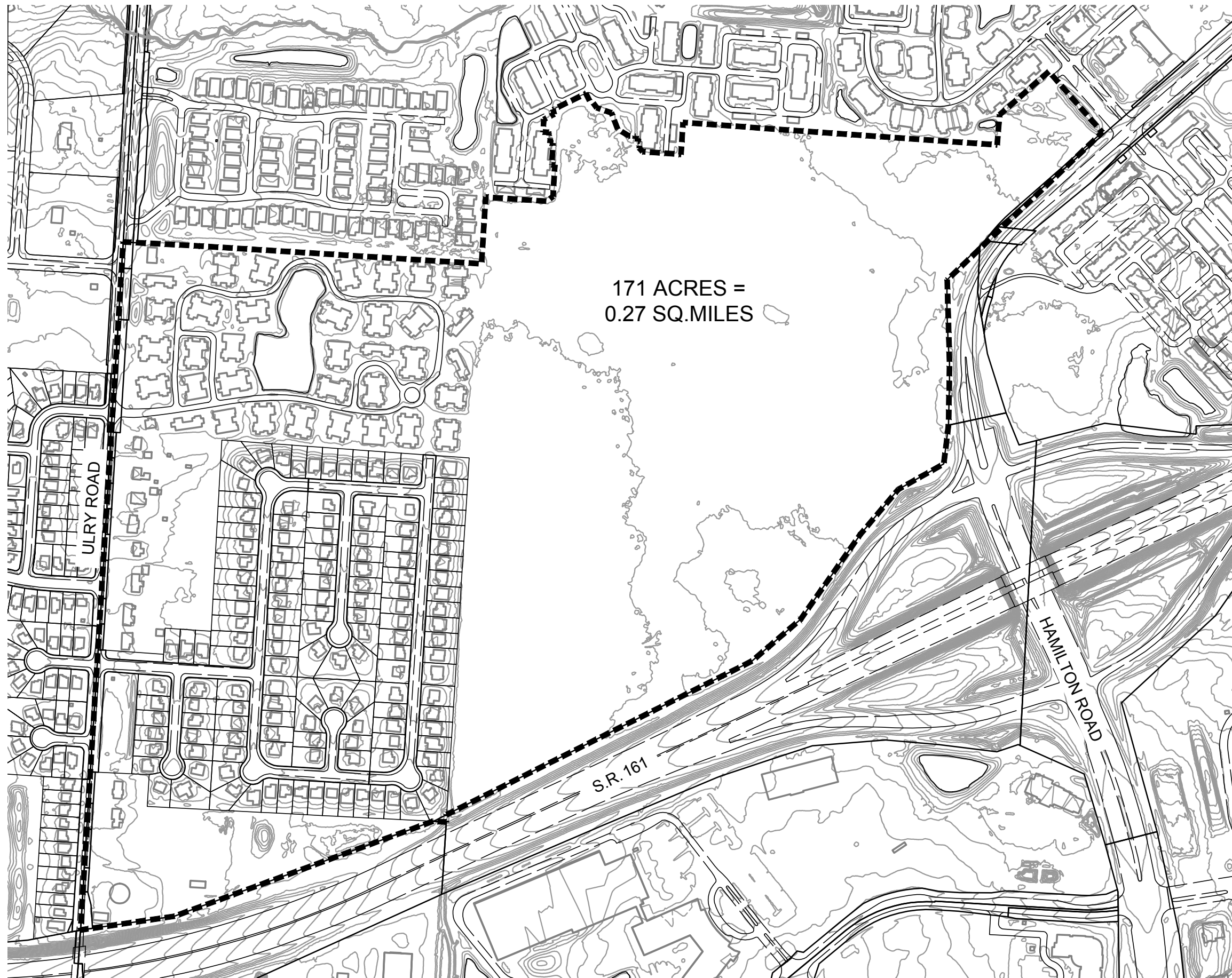
$$\text{WIDTH} = 147(3.5)^{0.38} = 236.63 \text{ FT}$$

NOTE: FLOODWAY WIDTH = 130' ± THEREFORE
USE 237' AS SCAPZ WIDTH

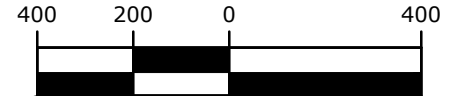
84" CULVERT - S.R. 161 - APPROX. STA. 2138+50

DA = 0.27 SQUARE MILES

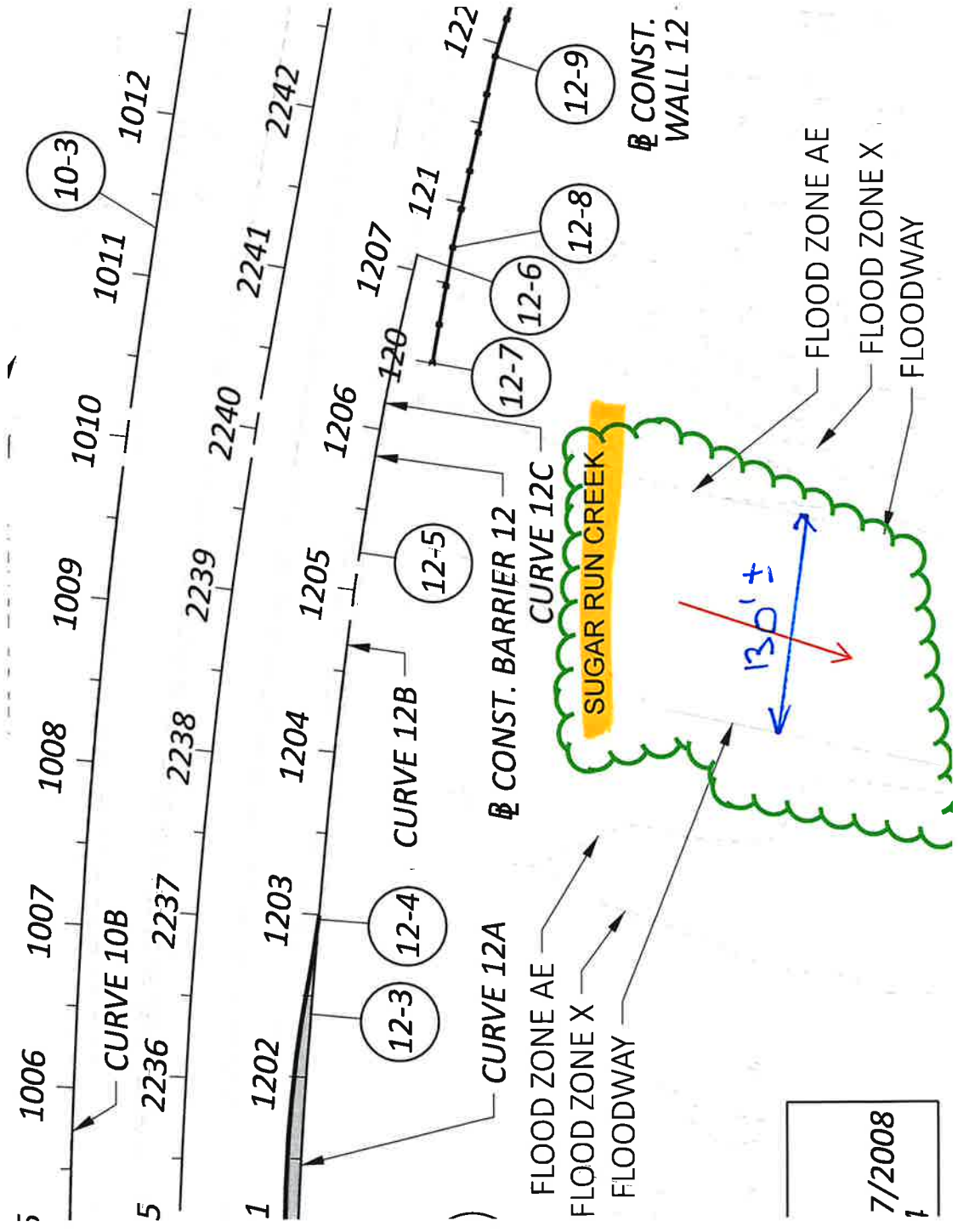
$$\text{WIDTH} = 147(0.27)^{0.38} = 89.38 \text{ FT THEREFORE USE 90 FT.}$$



GRAPHIC SCALE



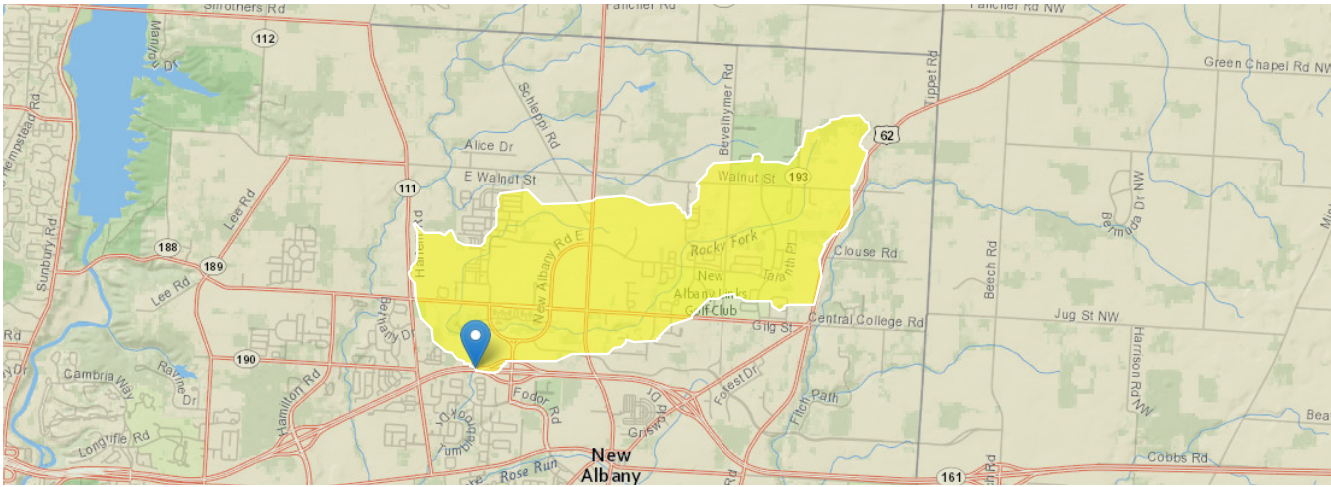
(IN FEET)
1 inch = 400 ft.



7/2008
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StreamStats Report

Region ID: OH
 Workspace ID: OH20231127161342151000
 Clicked Point (Latitude, Longitude): 40.09176, -82.82840
 Time: 2023-11-27 11:14:12 -0500



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Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CSL1085LFP	Change in elevation divided by length between points 10 and 85 percent of distance along the longest flow path to the basin divide, LFP from 2D grid	35.5	feet per mi
DRNAREA	Area that drains to a point on a stream	3.5	square miles
LC92STOR	Percentage of water bodies and wetlands determined from the NLCD	0.88	percent
OHREGA	Ohio Region A Indicator	1	dimensionless
OHREGC	Ohio Region C Indicator	0	dimensionless

Peak-Flow Statistics

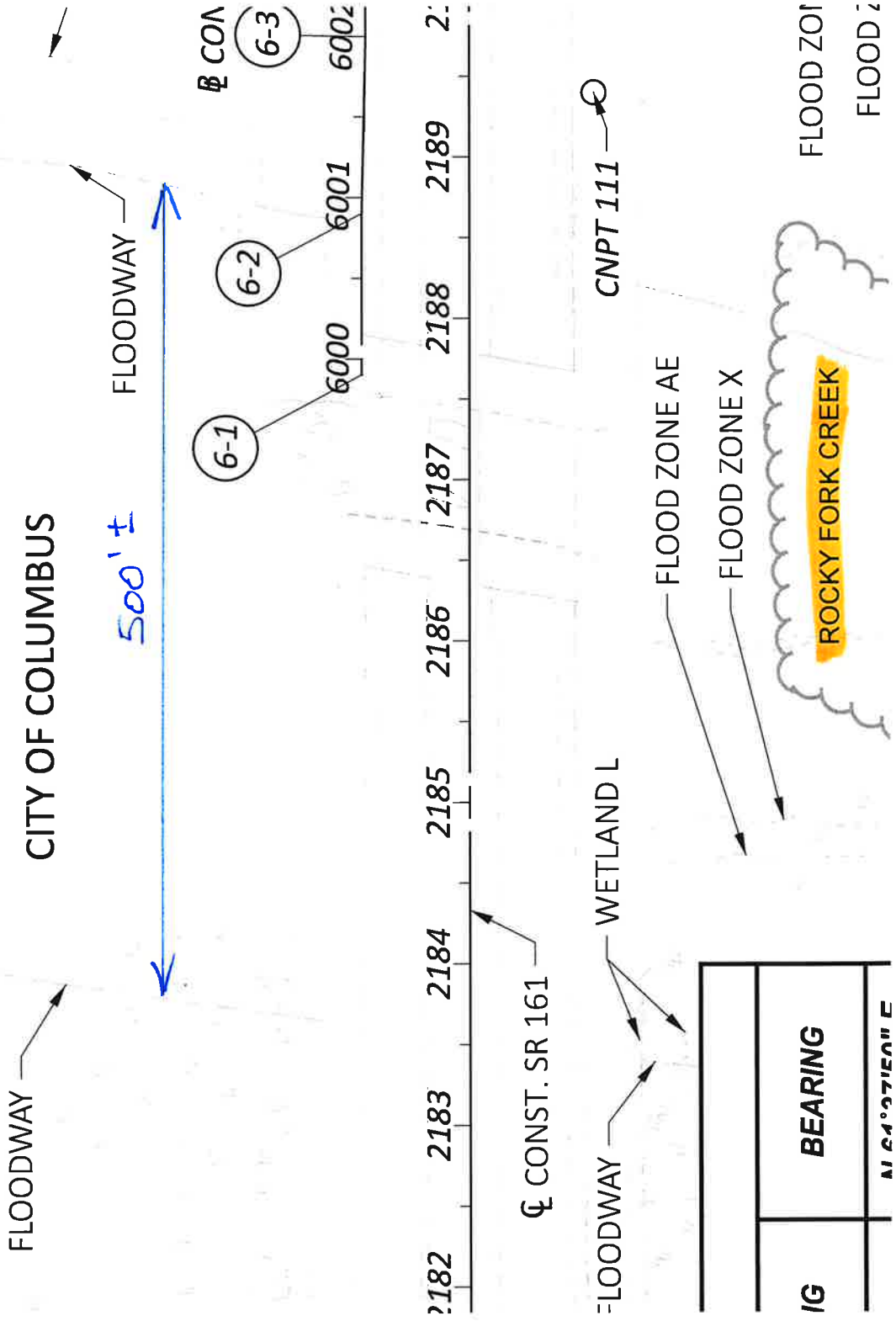
Peak-Flow Statistics Parameters [Peak Flow Full Model Reg A SIR2019 5018]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	3.5	square miles	0.04	5989
OHREGC	Ohio Region C Indicator 1 if in C else 0	0	dimensionless	0	1
OHREGA	Ohio Region A Indicator 1 if in A else 0	1	dimensionless	0	1
CSL1085LFP	Stream Slope 10 and 85 Longest Flow Path	35.5	feet per mi	1.53	516
LC92STOR	Percent Storage from NLCD1992	0.88	percent	0	25.35

Peak-Flow Statistics Flow Report [Peak Flow Full Model Reg A SIR2019 5018]

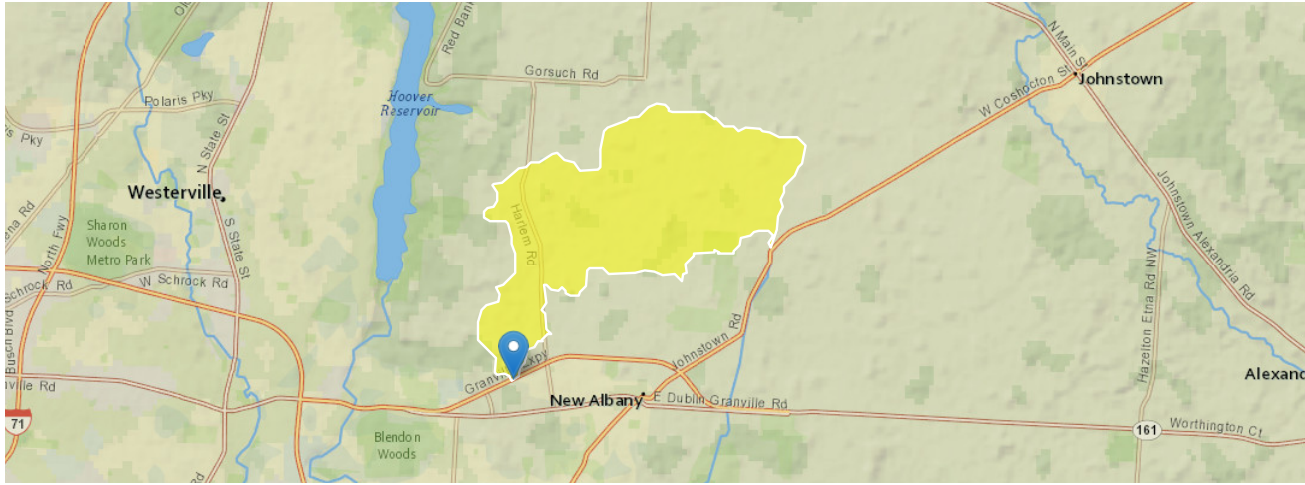
PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	PIL	PIU	ASEp
50-percent AEP flood	273	ft ³ /s	145	515	40.1
20-percent AEP flood	471	ft ³ /s	261	851	37.2
10-percent AEP flood	629	ft ³ /s	346	1140	37.6
4-percent AEP flood	857	ft ³ /s	468	1570	38.1
2-percent AEP flood	1050	ft ³ /s	568	1940	37.8
1-percent AEP flood	1250	ft ³ /s	669	2340	39.6
0.2-percent AEP flood	1770	ft ³ /s	939	3340	40.3



StreamStats Report

Region ID: OH
 Workspace ID: OH20231127161831515000
 Clicked Point (Latitude, Longitude): 40.08676, -82.84623
 Time: 2023-11-27 11:18:53 -0500



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Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CSL1085LFP	Change in elevation divided by length between points 10 and 85 percent of distance along the longest flow path to the basin divide, LFP from 2D grid	21.6	feet per mi
DRNAREA	Area that drains to a point on a stream	9.57	square miles
LC92STOR	Percentage of water bodies and wetlands determined from the NLCD	1.51	percent
OHREGA	Ohio Region A Indicator	1	dimensionless
OHREGC	Ohio Region C Indicator	0	dimensionless

Peak-Flow Statistics

Peak-Flow Statistics Parameters [Peak Flow Full Model Reg A SIR2019 5018]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	9.57	square miles	0.04	5989
OHREGC	Ohio Region C Indicator 1 if in C else 0	0	dimensionless	0	1
OHREGA	Ohio Region A Indicator 1 if in A else 0	1	dimensionless	0	1
CSL1085LFP	Stream Slope 10 and 85 Longest Flow Path	21.6	feet per mi	1.53	516
LC92STOR	Percent Storage from NLCD1992	1.51	percent	0	25.35

Peak-Flow Statistics Flow Report [Peak Flow Full Model Reg A SIR2019 5018]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	PIL	PIU	ASEp
50-percent AEP flood	532	ft ³ /s	282	1000	40.1
20-percent AEP flood	876	ft ³ /s	486	1580	37.2
10-percent AEP flood	1140	ft ³ /s	628	2070	37.6
4-percent AEP flood	1520	ft ³ /s	833	2780	38.1
2-percent AEP flood	1830	ft ³ /s	992	3380	37.8
1-percent AEP flood	2150	ft ³ /s	1150	4010	39.6
0.2-percent AEP flood	2990	ft ³ /s	1590	5620	40.3