

City of Port Clinton

Infrastructure Improvement Project

July 12, 2019

Entire Community Benefit

PAVEMENT

167,725 LF Sts x 26ft Ave = 4,360,850 SF

4,360,850 SF ÷ 9 = 484,550 SY Pavement

4,360,850 x 3" ÷ 12" = 1,090,212 CF

1,090,212 ÷ 27 = 40,380 CY

15% of Streets are in excellent condition

40,390 x .85 = 34,321.5 CY @ 3"

28,601 CY @ 2.5"

22,880 CY @ 2.0"

34,321.5 x \$200 = \$6.864M Resurface

28,601 x \$200 = \$5.720M Resurface

22,880 x \$200 = \$4.576M Resurface

Milling

484,550 x .85 x \$5 = \$2.059M

Utility Adj

484,550 x .85 x \$1.5 = \$617.8K

Project Costs

		Min
Storm Sewers	\$ 1.40M	\$ 1.10M
Waterlines	\$ 3.20M	\$ 1.00M
Sanitary	\$ 2.40M	\$ 1.02M
Milling	\$ 2.06M	\$ 2.06M
Utility Adj	\$ 0.618M	\$ 0.618M
Pavement	\$ 5.72M (2.5")	\$ 4.576M (2")
Total	\$15.40M	\$10.374M
25%	\$ 3.85M	\$ 2.593M
Project Cost	\$19.25M	\$12.967M

DEBT

\$19.25M	@4.0%	@ 30 yr = \$1.113 M/Yr
	@3.0%	@ 30 yr = \$0.982 M/Yr
	@1.5%	@ 30 yr = \$0.802 M/Yr

Blended

@ 20 yr = \$1.416 M/Yr
@ 20 yr = \$1.294 M/Yr
@ 20 yr = \$1.121 M/Yr

DEBT

\$12.967M	@4.0%	@ 30 yr = \$0.750 M/Yr
	@3.0%	@ 30 yr = \$0.662 M/Yr
	@1.5%	@ 30 yr = \$0.540 M/Yr
Blended		@ 20 yr = \$0.954 M/Yr
		@ 20 yr = \$0.872 M/Yr
		@ 20 yr = \$0.755 M/Yr

Debt / Yr (Water Debt Paid off in 2019 \$136 / Yr)

$$1.113 - 0.136 = .977$$

$$0.982 - 0.136 = .846$$

$$0.801 - 0.136 = .665$$

$$1.416 - 0.136 = 1.280$$

$$1.294 - 0.136 = 1.158$$

$$1.121 - 0.136 = 0.985$$

$$0.750 - 0.136 = 0.614$$

$$0.662 - 0.136 = 0.526$$

$$0.540 - 0.136 = 0.404$$

$$0.954 - 0.136 = 0.818$$

$$0.872 - 0.136 = 0.736$$

$$0.755 - 0.136 = 0.619$$

Water or Sewer 2769 Customers = 3561 EDU's

- Option A Water Debt Applied use only Sewer Adj
- Option B Water Debt Applied use Water & Sewer Adj
- Option C No Water Debt = Use Water & Sewer Adj

(Examples)

Sewer	= \$10 Fixed	= \$12 Fixed
Water	= \$10 Fixed	= \$ 6 Fixed
	=\$.855 M/Yr	= \$.769 M/Yr

Key issue is to try to get a 0% loan or blended rate of 1.5% using sanitary and CSO improvements with storm. This would be about 33% of the project with prorated paving. It is unlikely that the City would borrow at anything over 3%. Water and Sanitary along with associate storm and road improvements are eligible for potential USDA Grant @ 30% - 40%.

Monthly Fixed Rate / EDU

\$ 5 / Month	=	\$213,655 / Yr
\$ 6 / Month	=	\$256,395
\$ 7 / Month	=	\$299,125
\$ 8 / Month	=	\$341,850
\$ 9 / Month	=	\$384,590
\$10 / Month	=	\$427,320
\$11 / Month	=	\$470,050
\$12 / Month	=	\$512,785

Customers	2,769		
	2,565	=	1 EDU
	\$3,561	=	Total EDU

All without monthly rate increases, water loss reductions, or meter replacements

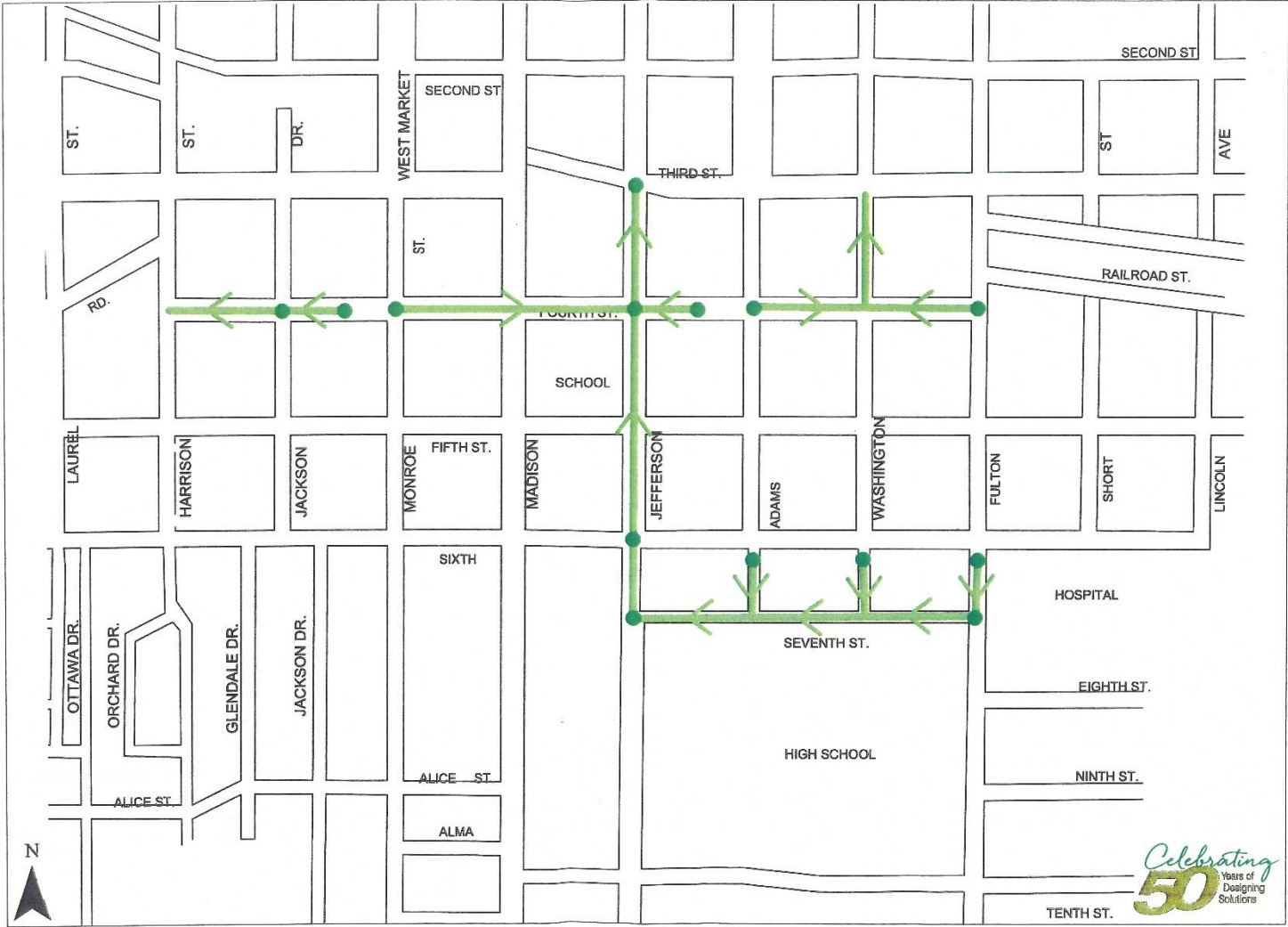
Sanitary Sewers



S.R. 2 & 53

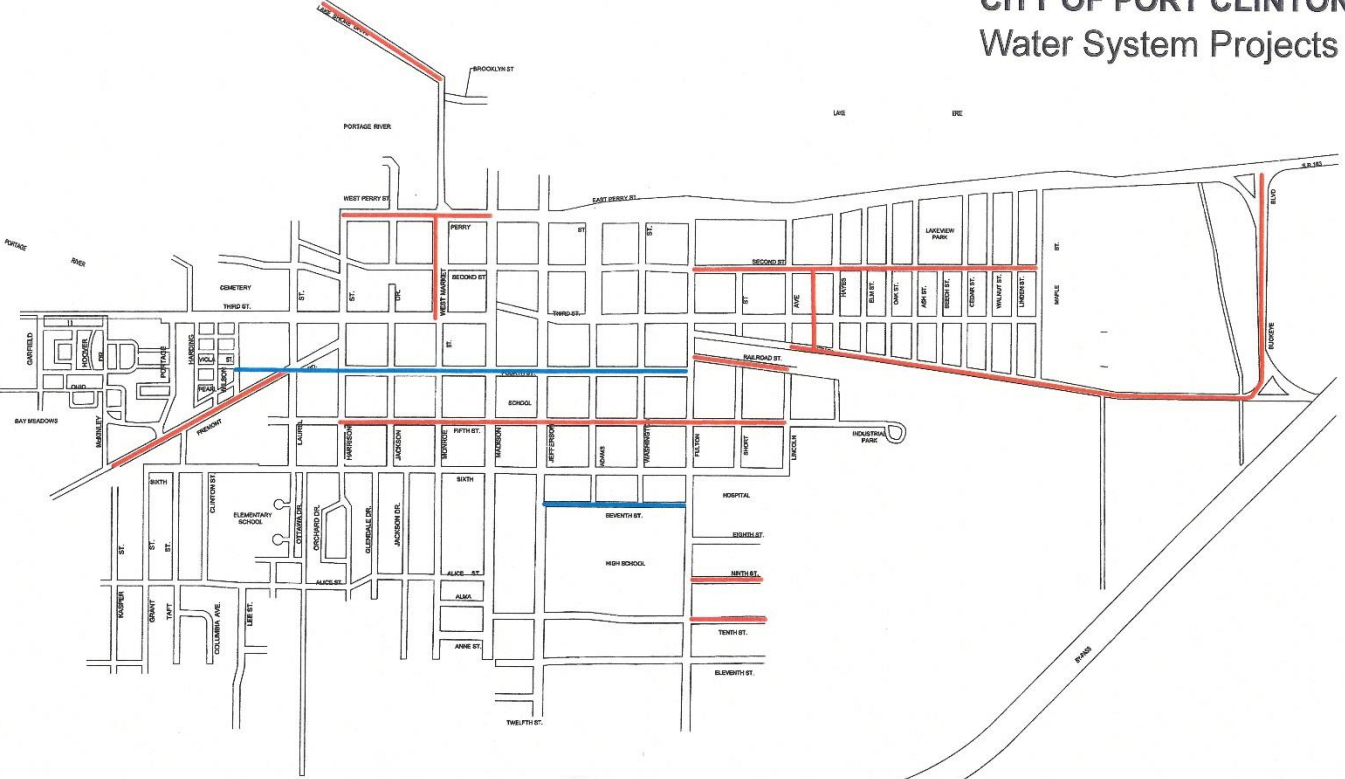


Storm Sewers



Celebrating
50 Years of
Designing
Solutions

CITY OF PORT CLINTON Water System Projects

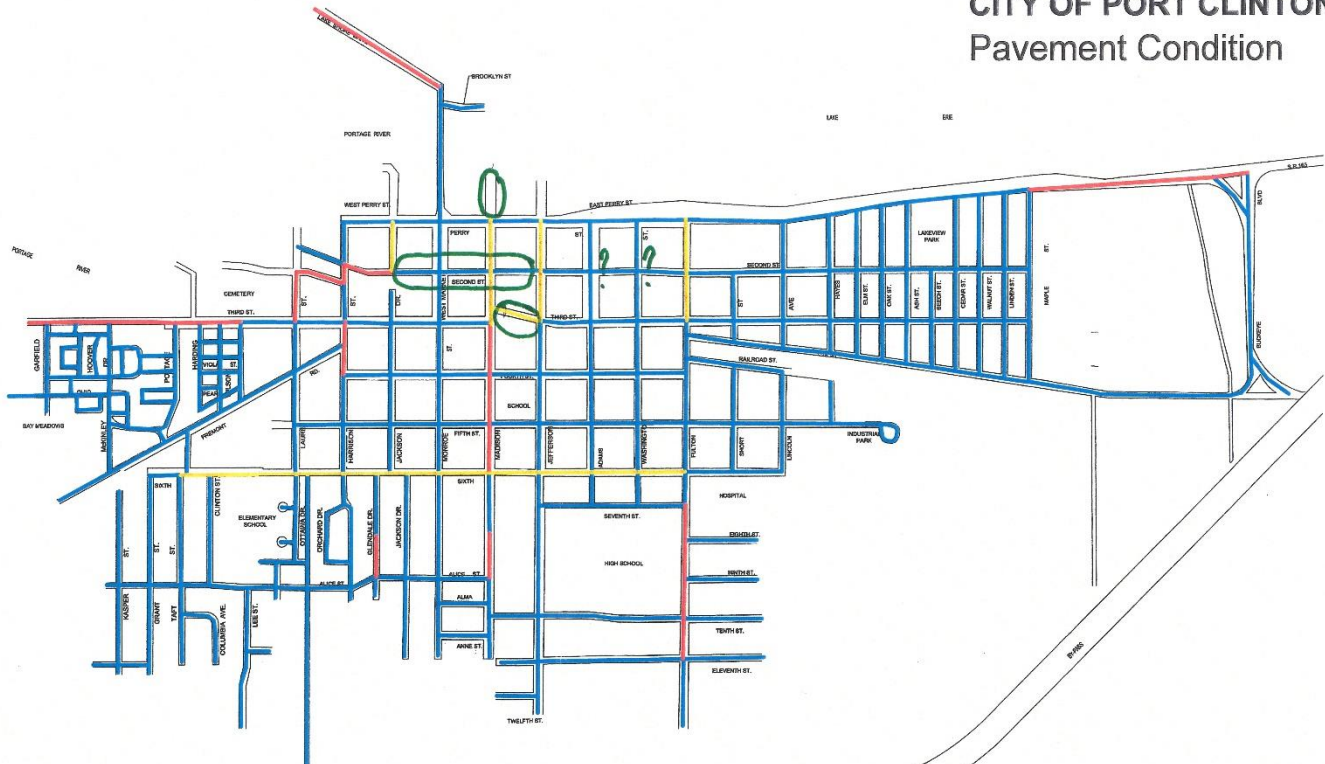


SR. 2 & 53

C:\Users\adam\Desktop\Map\Map\Port Clinton\portclinton214.dwg

- Current Projects
- Potential Projects

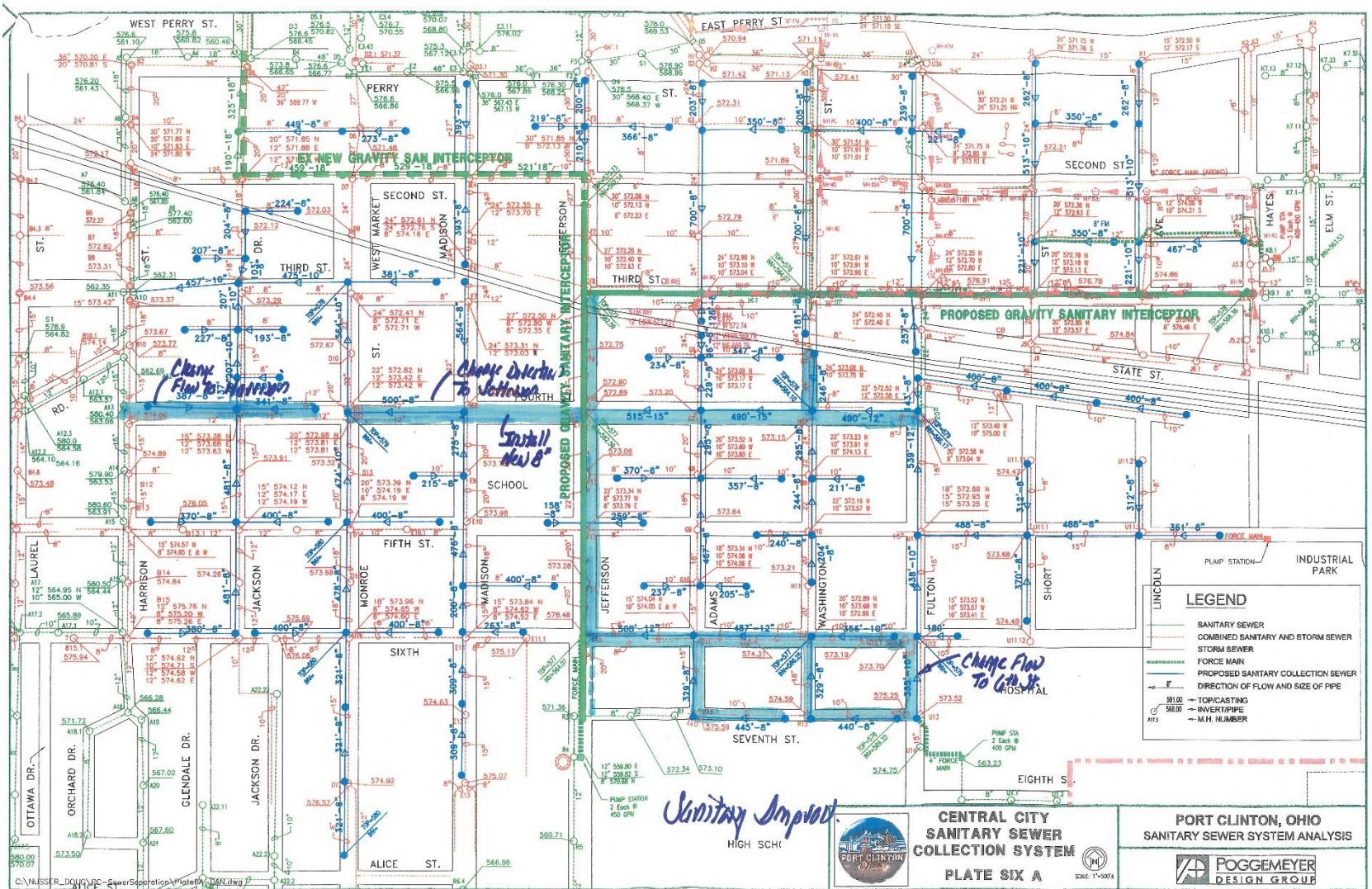
CITY OF PORT CLINTON Pavement Condition



SR. 2 & 53

- New Street
- Good Street
- To Be Resurfaced

C:\Users\jburke\Desktop\MapInfo\port Clinton\cmhbg2014.mxd



LEGEND

- SANITARY SEWER
- COMBINED SANITARY AND STORM SEWER
- STORM SEWER
- FORCE MAIN
- PROPOSED SANITARY COLLECTION SEWER
- DIRECTION OF FLOW AND SIZE OF PIPE
- 10" TOPCASTING
- 58.00' INVERT PIPE
- M.H. NUMBER

**CENTRAL CITY
SANITARY SEWER
COLLECTION SYSTEM**
PLATE SIX A

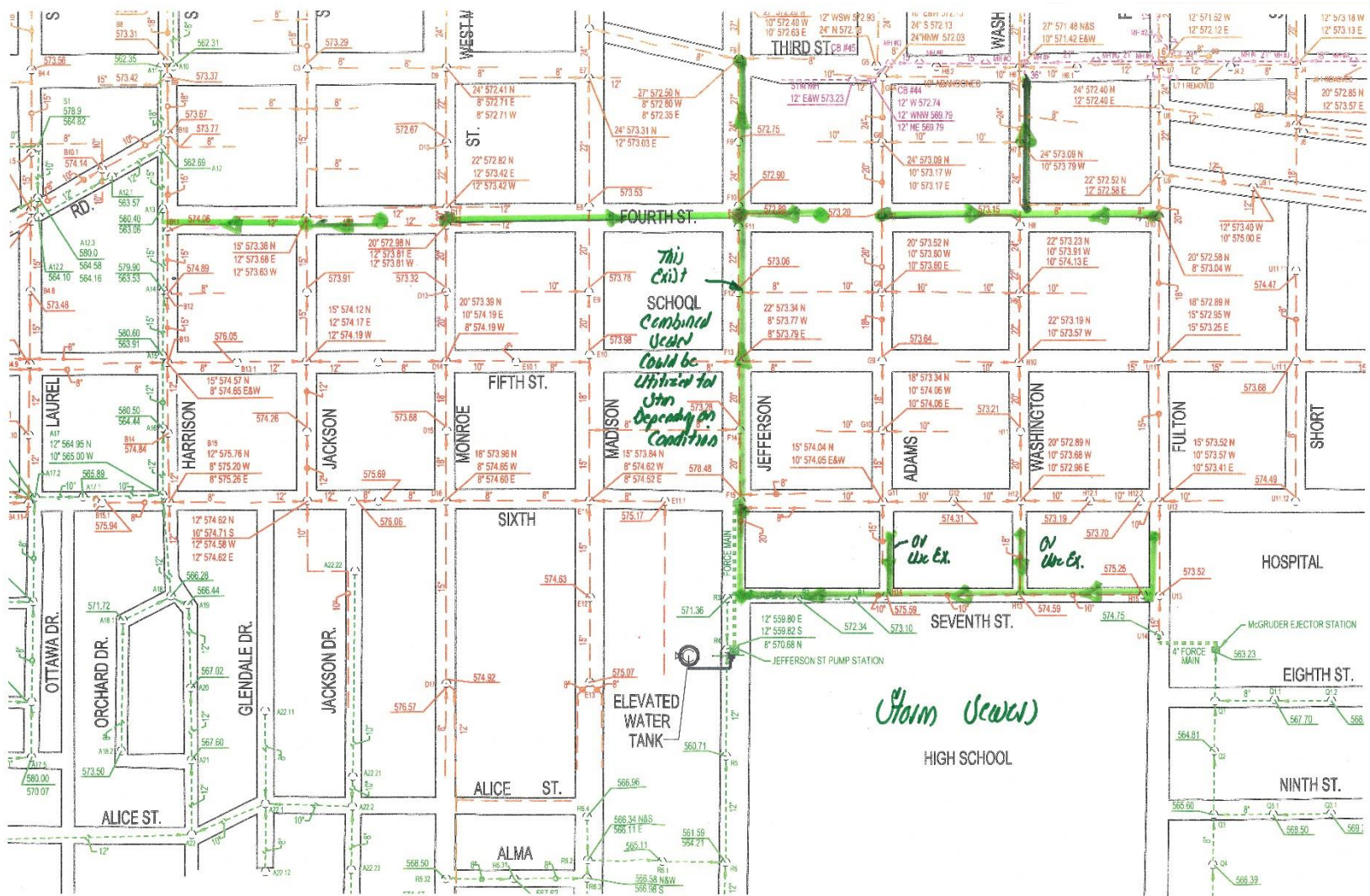
**PORT CLINTON, OHIO
SANITARY SEWER SYSTEM ANALYSIS**

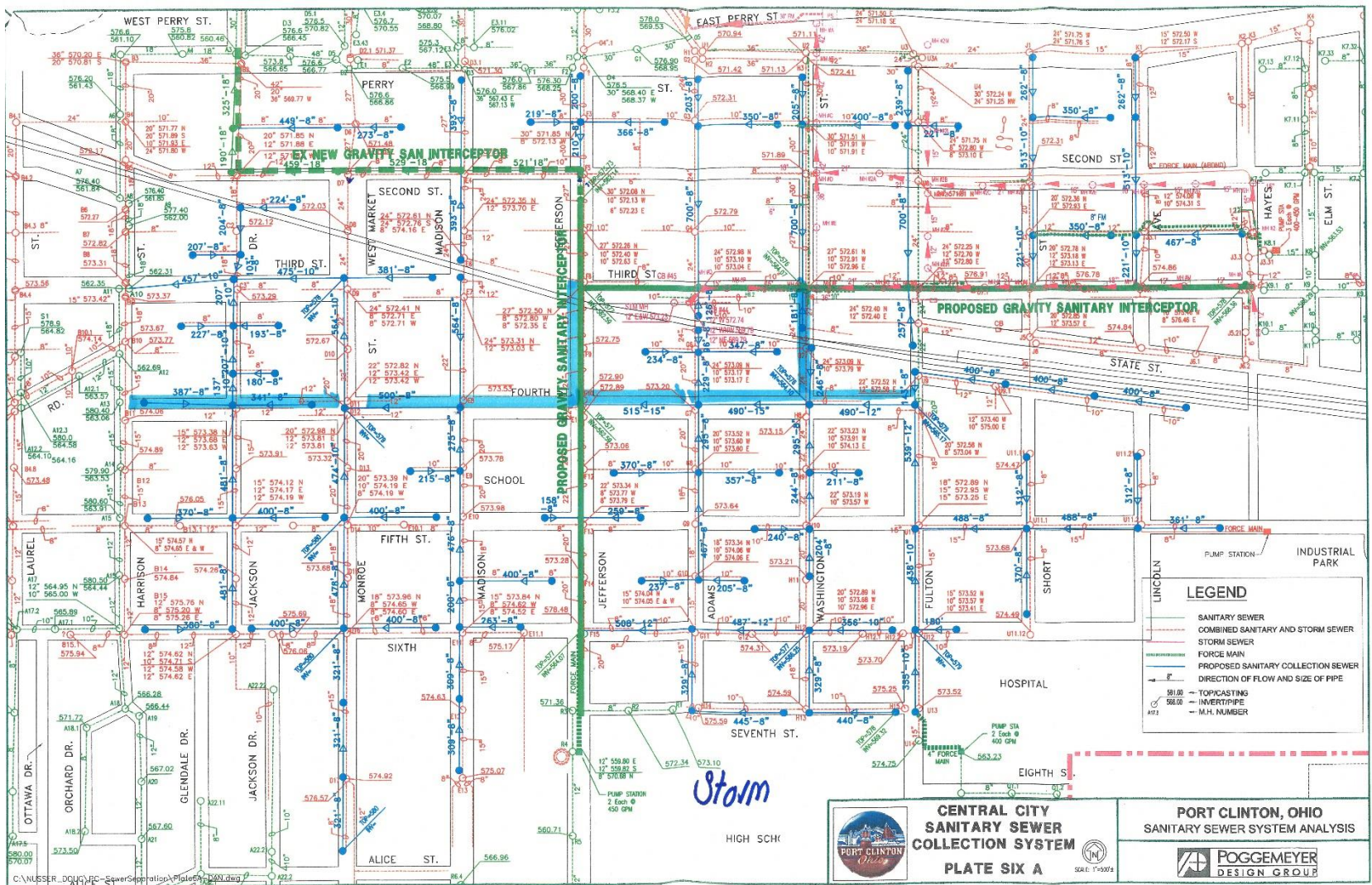


C:\NUSSEP_DOCKING\Cover\Separation\Plate Six.dwg

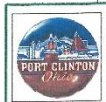


SCALE: 1"=100'





C:\NUSSEER_DWG\PC-C\sewer\analysis\PlateSix.dwg



**CENTRAL CITY
SANITARY SEWER
COLLECTION SYSTEM**
PLATE SIX A

**PORT CLINTON, OHIO
SANITARY SEWER SYSTEM ANALYSIS**
**POGGEMEYER
DESIGN GROUP**

