Civil Engineering
Environmental Engineering
Municipal Engineering
Land Surveying

WM SCHUTT ASSOCIATES

Project Management
Construction Support Services
Landscape Architecture
SWPPP Services

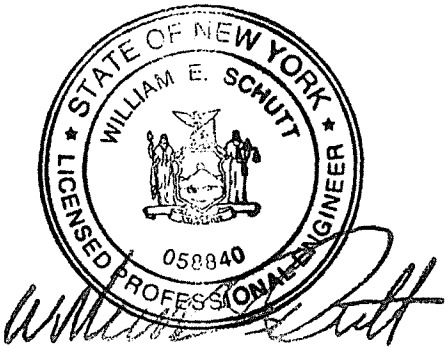
DOWNSTREAM CAPACITY ANALYSIS

For

PROPOSED TRADITIONAL NEIGHBORHOOD DEVELOPMENT

4300 MILLERSPORT HIGHWAY

TOWN OF AMHERST
ERIE COUNTY, NEW YORK



FEBRUARY 2019
REVISED MAY 2023

WSA PROJECT NO. 13027

37 CENTRAL AVENUE LANCASTER NEW YORK 14086-2143 P 716-683-5961 F 716-683-0169 WWW.WMSCHUTT.COM

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF APPENDICES

1.0 INTRODUCTION

Cimato & Sons, the project sponsor, of the proposed Traditional Neighborhood Development includes a combination of public and private roads; 38 patio homes, 4-unit and 2-unit townhomes and two combination commercial/residential structures. The site also includes an 8.66+/- acre Future Development Area. The site is zoned TND, Traditional Neighborhood Development and is located at 4300 Millersport Hwy, within the Town of Amherst. The site is currently vacant with a mixture of brush and trees. The site has 33+/- acres of federal wetlands, with a proposed wetland disturbance of 0.76 acres. The initial phase(s) of development includes a combination of public/private roads with a proposed access point off of Millersport Hwy and Smith Road (See Figure 1 - Project Location Map).

The parcel is located on the west side of Millersport Highway and also includes frontage along Smith and New Roads. It is proposed to design a gravity sanitary sewer collection system within the development and direct all flow to a proposed wastewater pump station. The pump station will also be installed within the limits of the development area. Wastewater would then be pumped across Millersport Highway, with a proposed connection into the existing public wastewater forcemain on the east side of Millersport Highway.

The northwest half of the parcel, 32.9+/- acres, is encompassed by federally regulated wetlands. In a July 2018 letter issued by the NYSDEC, the project does not contain any state-regulated freshwater wetlands. In January 2019, the Department of the Army, Corps of Engineers issued a Preliminary Jurisdiction Determination. Any proposed disturbance to the federally regulated wetland is intended to be minimized.

Cimato & Sons has met with the Town of Amherst to discuss the proposed project, which lies beyond the limits of the Town's Consolidated Sanitary Sewer District. Per those discussions, the Town recommending the proposed project pursue an Out-of-District Customer Agreement, as opposed to an expansion of the Consolidated District.

In developing the DSCA, several sources of information were provided by the Town of Amherst and will be referenced throughout this report. This information includes the May 2014 DSCA prepared for the Dockside Village Apartments Phase III, the July 2018 DSCA prepared for the New Road Subdivision project and wastewater flow information at several nodes monitored directly by the Town of Amherst.

Using the most current data from each information source, a total of four nodes will be analyzed. Following the path of wastewater flow from the proposed project site at 4300 Millersport Highway, downstream, the nodes to be analyzed are:

- Node 1 – 12-inch sanitary sewer, 2035 Hopkins Road (obtained from 2018 data provided by Town of Amherst)
- Node 2 – 24-inch sanitary sewer, North French Road at Hopkins Road (obtained from additional 2019 data as provided by Town of Amherst)
- Node 2A - 24-inch sanitary sewer, North French Road- east of Millersport Highway (as provided by Town of Amherst)
- Node 3 – 36-inch sanitary sewer, North French Road – east of Campbell Boulevard (obtained from Town of Amherst)

- Node 4 – 48-inch sanitary sewer, 411 North French Road- west of Sweethome (obtained from Town of Amherst)

2.0 SANITARY FACILITIES EXISTING AND PROPOSED CONDITIONS

2.1 Existing Conditions

Downstream Routing

Flow from the proposed 4300 Millersport Highway development would flow towards and be treated at the Town of Amherst Wastewater Treatment Plant (Plant #16) located on Tonawanda Creek Road.

There is an existing wastewater pump station to the north of the project site. Flow from the pump station is directed southerly along Millersport Highway via a 10-inch forcemain. The forcemain empties into a 12-inch gravity sanitary sewer along Hopkins Road. Flow is then directed southerly until intercepting a 24-inch sanitary sewer along the south side of North French Rd. Wastewater is then directed westerly thru the French/Dodge Road Trunk sewer consisting of 24-inch, 36-inch and 48-inch diameter pipes until reaching Sundridge Dr. Wastewater flow is then directed northerly along Sundridge Dr. via 48-inch diameter pipe until reaching the Wastewater Treatment Plant (Plant 16) on Tonawanda Creek Rd.

Millersport Highway Pump Station - Existing Conditions

North of the proposed development area, along Millersport Highway, is an existing wastewater pump station. The pump station was designed as part of a Sanitary Sewer Master Plan and Pump Station Design that included the comprehensive Dockside Village Apartment Project. The existing pump station design included a 10-inch forcemain that travels southerly along the east side of Millersport Highway. The forcemain empties into a 12-inch gravity sanitary sewer along Hopkins Road.

Per information obtained from the Dockside Village 2014 DSCA report, the wastewater pump station was designed (May 2004) for a peak flow of 735 gpm, with operating conditions of 745 gpm at a TDH of 70-ft. Per a May 2014 pump test, completed by the Town of Amherst at the wastewater pump station, the actual daily and peak flows at the pump station were 25 gpm and 92 gpm respectively. The proposed flowrate from the 4300 Millersport Hwy project would increase flow thru the existing forcemain to 45.75 gpm and 176.6 gpm, respectively. The future flow rates thru the existing forcemain will remain well under the original design. The future peak flow rate of 176.6 gpd reaches 24% of the original design parameters.

Node 1 Existing Conditions – 12-inch sanitary sewer, 2035 Hopkins Road (obtained from 2018 data provided by Town of Amherst)

At Node 1, the Town of Amherst provided data collected at this location from August 30, 2018 thru November 20, 2018. During that time frame, a 1.71-inch rain event occurred on November 1st. The highest flow rate recorded was 0.21 MGD.

Node 2 Existing Conditions – 24-inch sanitary sewer, North French Road at Hopkins (data obtained from 2019 data as provided by Town of Amherst)

At Node 2, data was supplied by the Town of Amherst for the section of sanitary 24-inch sanitary sewer east of Campbell Boulevard. Data was collected from March 28, 2019 thru April 11, 2019. During that time frame a 0.89-inch rain event occurred in the evening of March 30th, extending into the morning of March 31st., with an additional 0.28 inches. The associated peak flow rate measured was 4.26 MGD.

Node 2A Existing Conditions – 24-inch sanitary sewer, North French Road - east of Millersport Highway (2019 data as provided by Town of Amherst)

At Node 2A, data was collected by TECsmith for the Town of Amherst. Data was collected from July 1, 2019 thru September 23, 2019. During that time frame a 2.2-inch rain event occurred on July 6th. The associated peak flow rate was 4.94 MGD.

Node 3 Existing Conditions – 36-inch sanitary sewer, North French Road – east of Campbell Boulevard (obtained from Town of Amherst)

At Node 3, data was supplied by the Town of Amherst. Data was provided for the time frame of March 1 ,2023 thru March 31, 2023. A peak flow of 5.72 MGD was recorded on March 17, 2023.

Node 4 Existing Conditions – 36-inch sanitary sewer, North French Road- east of Sweethome (obtained from Town of Amherst)

At Node 4, data was supplied by the Town of Amherst. Data was provided for the time frame of March 1 ,2023 thru March 31, 2023. A peak flow of 9.25 MGD was recorded on March 17, 2023.

Existing Conditions Summary:

Sewer	Size	Slope	Manning "n" value	Capacity (MGD)	Flow Monitoring Results (MGD)
Hopkins Road	*12-inch*	*0.23%*	*0.011*	*1.31*	*0.21*
N. French Rd at Hopkins	*24-inch*	*0.08%*	*0.013*	*4.15*	*4.26*
N. French Rd (east of Millersport)	*24-inch*	*0.08%*	*0.013*	*4.15*	*4.94*
N. French Rd (east of Campbell)	*36-inch*			*9.66***	*5.72*
411 N. French Rd (west of Sweethome)	*48-inch*			*16.1***	*9.25*

** As provided by Town of Amherst

2.2 Proposed Conditions

Proposed Project Design Basis

Average Daily Flows	
PHASE 1	
Patio Homes - 38 homes	
Bedrooms per home =	2
Total number of bedroom (2*38) =	76
Flow rate per bedroom =	110 gpd
Average Daily Flow (76*110) =	**8,360 gpd**
Four Unit Town Homes – 7 buildings	
Bedrooms per unit =	2
Total number of bedrooms (7 * 4 *2) =	56
Flow rate per Bedroom =	110 gpd
Average Daily Flow (56 *110) =	**6,160 gpd**
Two Unit Town Homes - 6 buildings	
Bedrooms per unit =	2
Total number of bedrooms = (6 *2 *2)	24
Flow rate per bedroom =	110 gpd
Average Daily Flow = (24 *110)	**2,640 gpd**
PHASE 2	
MIXED USE BUILDING #1 – 11,000 sf footprint	
First floor commercial space – 11,000 sf	
Average daily flow = (0.1 gpd * 11,000 sf)	**1,100 gpd**
Employees =	28
Average daily flow = (15 gpd * 28)	**420 gpd**
Second Floor apartments =	11
Bedrooms per apartment =	2
Total number of bedrooms = (11*2)	22
Flow rate per bedroom =	110 gpd
Average Daily Flow = (22 *110)	**2,420 gpd**
Third Floor apartments =	11
Bedrooms per apartment =	2
Total number of bedrooms =	22
Flow rate per bedroom =	110 gpd
Average Daily Flow = (11* 110)	**2,420 gpd**

PHASE 3	
MIXED USE BUILDING #2 – 11,000 sf footprint	
First floor commercial space – 11,000 sf	
Average daily flow = (0.1 gpd * 11,000 sf)	***1,100 gpd***
Employees =	*28*
Average daily flow = (15 gpd * 28)	***420 gpd***
Second Floor apartments =	*11*
Bedrooms per apartment =	*2*
*Total number of bedrooms = (11*2)*	*22*
Flow rate per bedroom =	*110 gpd*
Average Daily Flow = (22 *110)	***2,420 gpd***
Third Floor apartments =	*11*
Bedrooms per apartment =	*2*
Total number of bedrooms =	*22*
Flow rate per bedroom =	*110 gpd*
Average Daily Flow = (11* 110)	***2,420 gpd***
TOTAL AVERAGE DAILY FLOW (Phases 1 thru 3)	***29,880 GPD***
Peak Daily flow	
Population (P) =	*299 people*
$P = \frac{\text{Population}}{1{,}000} = \frac{299}{1{,}000}$	*0.299*
$\text{Peak Factor} = Q_{max}/Q_{avg} = \frac{(18+(P)^{1/2})}{(4+(P)^{1/2})}$	*4.079*
Peak Daily Flow = Avg. Daily Flow X Peak Factor	***121,880 gpd*** ***84.6 gpm (over 24 hours)***

Millersport Highway Pump Station - Proposed Conditions

Per information obtained from the Dockside Village 2014 DSCA report and per a May 2014 pump test completed by the Town of Amherst at the wastewater pump station, the actual daily and peak flows at the pump station was 25 gpm and 92 gpm respectively. Accounting for the final phase of the Dockside apartment project, the daily and peak flow rates are expected to increase to 69 gpm and 252 gpm respectively.

Adding in the future average and peak flow rates from the proposed 4300 Millersport Highway project (20.75 gpm and 84.6 gpm respectively), *the future average and peak flow rates to the pump station are estimated at* ***89.75 gpm*** *and* ***336.6 gpm*** *respectively.*

Comparing the future flow rates to the original pump station design flow rates (***operating condition of 745 gpm***), the projected flow rates are less that the original design flow rates. No upgrades to the pump station and downstream force main are anticipated based on the increased flow rate.

Node 1 Proposed Conditions – 12-inch sanitary sewer, 2035 Hopkins Road (obtained from 2018 data provided by Town of Amherst)

At Node 1, the highest recorded flow rate was 0.21 MGD. Based on the pipe characteristics, the *pipe capacity is estimated at 1.31 MGD.* Accounting for the future peak flow rate from the 4300 Millersport Highway development (0.122 MGD), anticipated future peak flow thru Node 1 is 0.332 MGD. ***The future peak flow rate is 25.3% of full flow capacity.***

Node 2 Proposed Conditions – 24-inch sanitary sewer, North French Road at Hopkins (data obtained from 2019 data as provided by Town of Amherst)

At Node 2, the highest recorded flow rate is 4.26 MGD. The recorded flow rate corresponds to a 0.89-inch and 0.28-inch rain event extending from March 30th thru March 31st, 2019. Accounting for the future peak flow rate from the 4300 Millersport Highway Project (0.122 MGD), the anticipated peak flow rate thru Node 2 is 4.38 MGD. The available pipe capacity is 4.15 MGD. **Based on the future peak flow rate, 105% of the full flow capacity is used, during a 2-yr – 6 hr rain event.** ***Based on the flow information provided by the Town of Amherst, during the March 30th – 31st rain event, the highest flow level measurement was 54.49 inches and the highest velocity measured in the pipe was 2.10 fps. Although the pipe capacity was slightly exceeded, it does not appear that the flow stalled at any point in time. The crown of the pipe was submerged by 2.5 ft, but the level of surcharge did not approach the manhole rim. The Town of Amherst has also reviewed the impact of the future flow from the proposed 4300 Millersport Hwy project, within the Town modeling system. Under future flow conditions, the submerged level increases by 0.42 ft or 5-inches, resulting in an increased flow level measurement of 59.49-inches. The total height of the manhole is 14.5-ft from rim to invert. Under future flow conditions, the surcharge flow level of 59.49-inches (4.95 ft), still leaves 9.55-ft of freeboard within the manhole, above the surcharge level.***

Per information provided by the Town, the surcharge being experienced at this location is partially due to a section of existing sanitary sewer with a negative slope, just west of Hopkins Road.

Node 2A Proposed Conditions – 24-inch sanitary sewer, North French Road - east of Millersport Highway (2019 data as provided by Town of Amherst)

At Node 2A, the highest recorded flow rate was 4.94 MGD. The recorded flow rate corresponds to a 2.20-inch rain event occurring on July 6, 2019. Accounting for the peak future peak flow rate from the 4300 Millersport Highway Project (0.122 MGD), the anticipated peak flow rate thru Node 2A is 5.06 MGD. The available pipe capacity is 4.15 MGD. ***Based on the flow information provided by the Town of Amherst, during the July 6, 2019 rain event, the highest flow level measurement was 22.16 inches and within the pipe, a peak velocity of 2.42 fps. Although the pipe capacity was exceeded it does not appear that the flow stalled at any point in time.***

Node 3 Proposed Conditions – 36-inch sanitary sewer, North French Road – east of Campbell Boulevard (data obtained from Town of Amherst)

At Node 3, for March 17, 2023, the recorded peak flow rate was 5.72 MGD. Accounting for the peak future peak flow rate from the 4300 Millersport Highway Project (0.122 MGD), the anticipated peak flow rate thru Node 3 is 5.84 MGD. The available pipe capacity is 9.66 MGD. ***The future peak flow rate is 60.4 % of full flow capacity.***

Node 4 Proposed Conditions – 48-inch sanitary sewer, 411 North French Road - west of Sweethome (data obtained from Town of Amherst)

At Node 4,for March 17, 2023, the recorded peak flow rate was 9.25 MGD. Accounting for the peak future peak flow rate from the 4300 Millersport Highway Project (0.122 MGD), the anticipated peak flow rate thru Node 4 is 9.37 MGD. The available pipe capacity is 16.1 MGD. ***The future peak flow rate is 58.2% of full flow capacity.***

2.3 Conclusions

Analyzing the peak flow events, combined with future flow rates, there is sufficient capacity within the downstream wastewater routing system.

As is described in section 2.2 above (Node 2), during the greater peak storm event (4.33 MGD), available pipe capacity is exceeded. Based on the flow information provided by the Town of Amherst, during the March 30- 31st rain event, the highest flow level measurement was 54.49 inches and the highest velocity measured in the pipe was 2.10 fps. Although the pipe capacity was exceeded it does not appear that flow stalled at any point in time. Also, under future flow conditions, the submerged level increases by 0.42 ft or 5-inches, resulting in an increased flow level measurement of 59.49-inches. The total height of the manhole is 14.5-ft from rim to invert. Under future flow conditions, the surcharge flow level of 59.49-inches (4.95 ft), still leaves 9.55-ft of freeboard within the manhole, above the surcharge level.

In accordance with the Town of Amherst and NYS Department of Environmental Conservation Infiltration/ Inflow (I/I) mitigation program, four (4) gallons of I/I must be removed from the sanitary sewer collection system for every one (1) gallon of projected new sanitary flow.

In accordance with Town of Amherst Local Sewer Use Law, the Project Owner is required to make a financial contribution to the Town of Amherst Sewer Remediation Trust Fund. The Town's current rate is $250 per gallon of Inflow/Infiltration mitigated flow.

The mitigated flow for the proposed 4300 Millersport Highway development project is 4 times the peak flow (0.122 MGD) or 0.488 MGD. This converts to a flow rate of 338.9 gpm. The resulting financial contribution is $84,725.00 (338.9 gpm x $250.00).

3.0 PROJECT ADMINISTRATION

3.1 Technical Questions

Technical questions concerning data presented herein or concerning respective engineering drawings and details should be addressed to:

Wm. Schutt & Associates, P.C.
37 Central Avenue
Lancaster, New York 14086-2143
Tel: (716) 683-5961
Fax: (716) 683-0169
Attn: Patricia Bittar
pbittar@wmschutt.com

FIGURE 1

PROJECT LOCATION MAP

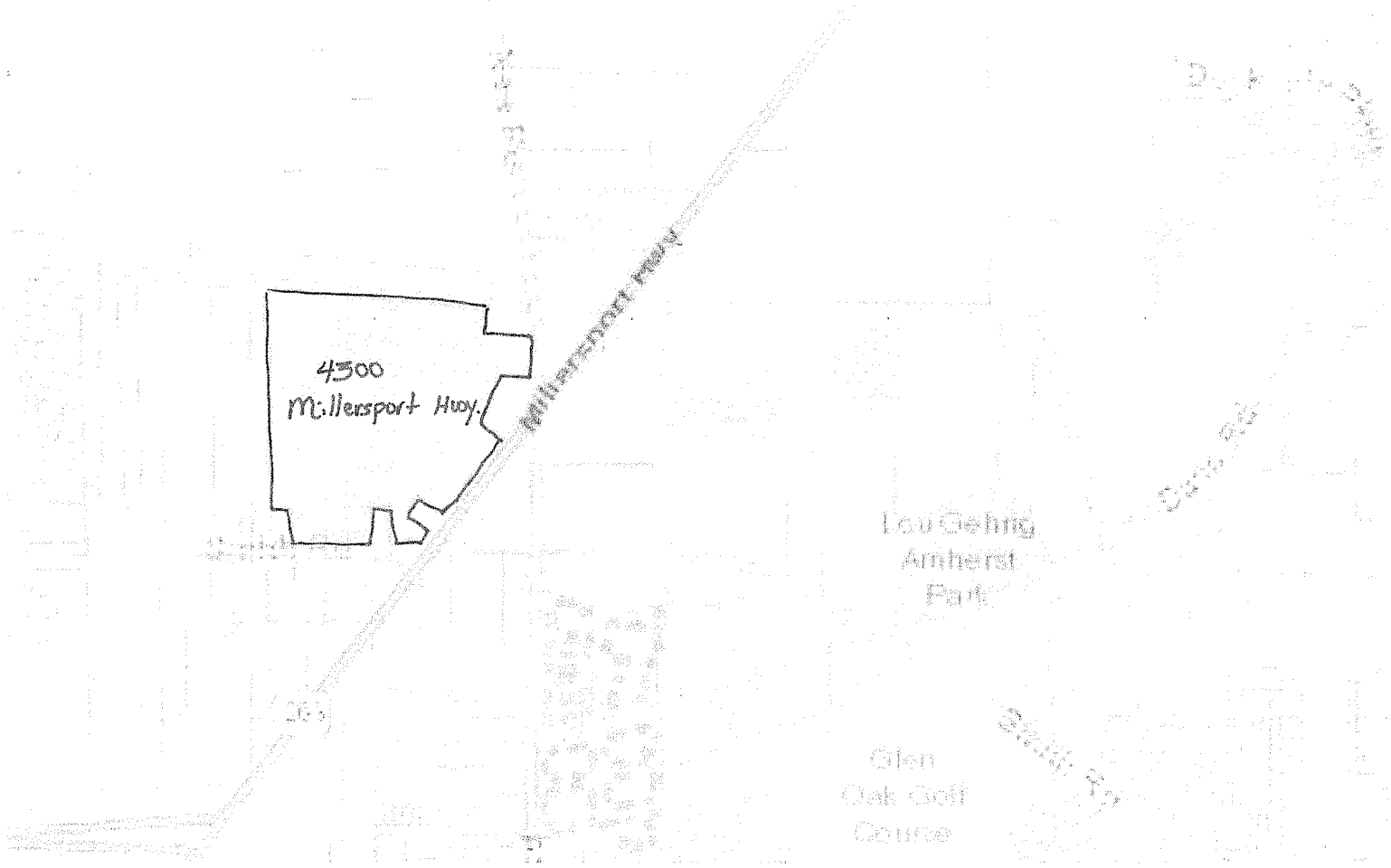

4300
Millersport Hwy.
Millersport Hwy
Lou Gehrig
Amherst
Park
Glen
Oak Golf
Course

FIGURE 2

SITE PLANS-

TND ZONING	
PHASE 1	
PLEX HOME UNITS	70 UNITS
4-UNIT TOWNHOMES	7 STRUCTURES (28 UNITS)
5-UNIT TOWNHOMES	6 STRUCTURES (42 UNITS)
TOTAL PROPOSED RESIDENTIAL UNITS IN PHASE 1 – 70 UNITS	

OFFICE OF PARKS, RECREATION AND HISTORIC PRESERVATION (OPRHP)/NEW YORK STATE HISTORIC PRESERVATION OFFICE (SHPO) AVOIDANCE PLAN FOR THE PROTECTION OF ARCHEOLOGICAL SITES

SHORT TERM SITE AVOIDANCE/PROTECTION

- THE SITE(S) BOUNDARY (INCLUDING BUFFER) WILL BE CLEARLY DELINEATED ON THE FINAL CONSTRUCTION PLANS AND IDENTIFIED AS "ENVIRONMENTALLY SENSITIVE AREA – NO ACCESS."
- NO MATERIAL STORAGE SHALL BE INSTALLED WITHIN THE BOUNDARIES OF THE AVOIDANCE AREA PRIOR TO AND CLEARING OR CONSTRUCTION CONTROL WITHIN THE APE, AND SHALL BE MAINTAINED UNTIL ALL CONSTRUCTION HAS CEASED.
- A PRE-CONSTRUCTION MEETING WITH THE CONSTRUCTION CONTRACTOR(S) IS TO BE REQUIRED TO NOTIFY THOSE IN CHARGE OF THE REQUIREMENTS TO PROTECT AND AVOID THE ARCHAEOLOGICAL SITE(S).
- ALL GROUNDSIDE CONSTRUCTION ACTIVITY AND TO BE REPORTED TO THE SHPO AND SHALL ACTIVITY SHALL CEASE IN THE VICINITY OF THE SITE, SO THE DAMAGE CAN BE ASSESSED, AND A RECOMMENDATION PROVIDED TO MITIGATE THE SITUATION.
- EXISTING LANDSCAPE AT THE SITE(S) WILL BE MAINTAINED. ANY PROPOSED MODIFICATIONS WILL REQUIRE CONSULTATION WITH THE SHPO.
- IN THE EVENT THAT HUMAN REMAINS ARE ENCOUNTERED DURING CONSTRUCTION, ALL WORK SHALL STOP IN THE VICINITY OF THE FIND AND BE REPORTED TO THE SHPO.
- AFTER CONSTRUCTION IS FULLY COMPLETED, PROTECTIVE FENCES MAY BE REMOVED.

LONG TERM SITE AVOIDANCE/PROTECTION

- STATE AND FEDERAL REGULATIONS SHALL INCLUDE RESTRICTIONS ASSOCIATED WITH THIS PROJECT WILL INCLUDE PROVISIONS FOR SITE(S) AVOIDANCE/PROTECTION.
- UNAUTHORIZED ACTIVITIES WITHIN THE SITE BOUNDARIES WILL REQUIRE NOTIFICATION TO THE SHPO AT (447)237-8643.
- SHOULD IMPACTS TO THE SITE BE PROPOSED IN THE FUTURE, SHPO MUST BE CONSULTED PRIOR TO CONSTRUCTION AND THE PROJECT SUBMITTED TO OUR OFFICE FOR REVIEW AND COMMENT.

811 THE LAW! CALL BEFORE YOU DIG
STOP
Call 811 before you dig.
811 Dial Before You Dig New York

DRAWING REVISIONS

ITEM	DATE	DESCRIPTION
1	1/26/22	REVISED PER TOWN COMMENTS
2	4/20/22	REVISED PER TOWN COMMENTS
3	10/17/22	REVISED PER TOWN COMMENTS

DESIGNED BY: PMB
DRAWN BY: DLS
CHECKED BY: WES
DATE:

WARNING
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER IN ANY WAY AN ITEM BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR. IF AN ITEM BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS OR HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS OR HER SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

WM SCHUTT ASSOCIATES
37 CENTRAL AVE.
LANCASTER, NY 14086-2143
PH. 716-683-5961
FAX 716-683-0169
WWW.WMSCHUTT.COM

4300 MILLERSPORT DEVELOPMENT
TOWN OF AMHERST
ERIE COUNTY - NEW YORK

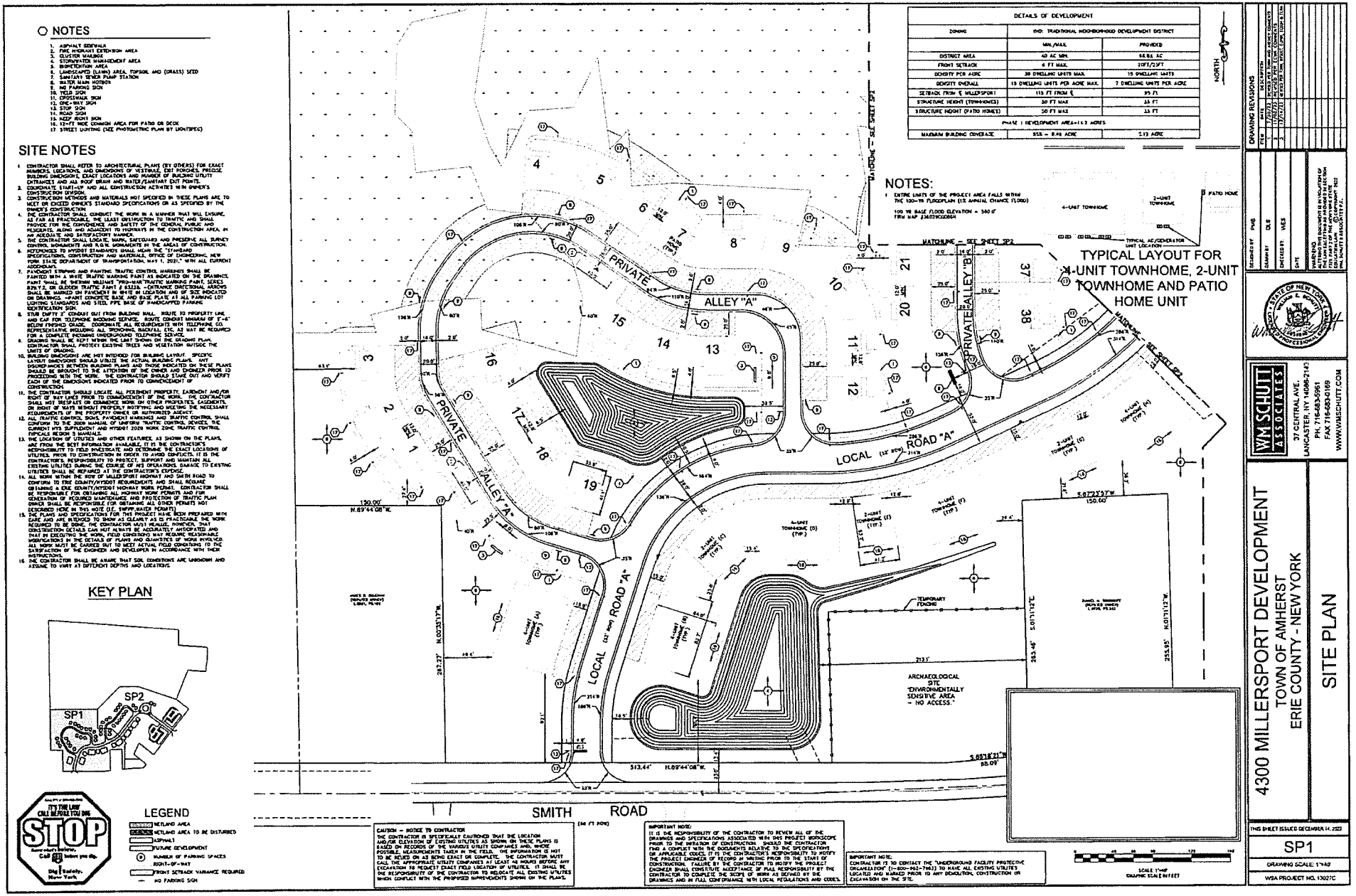
OVERALL SITE PLAN

THIS SHEET ISSUED DECEMBER 14, 2022

OP

DRAWING SCALE 1"=40'

WSA PROJECT NO. 19027C

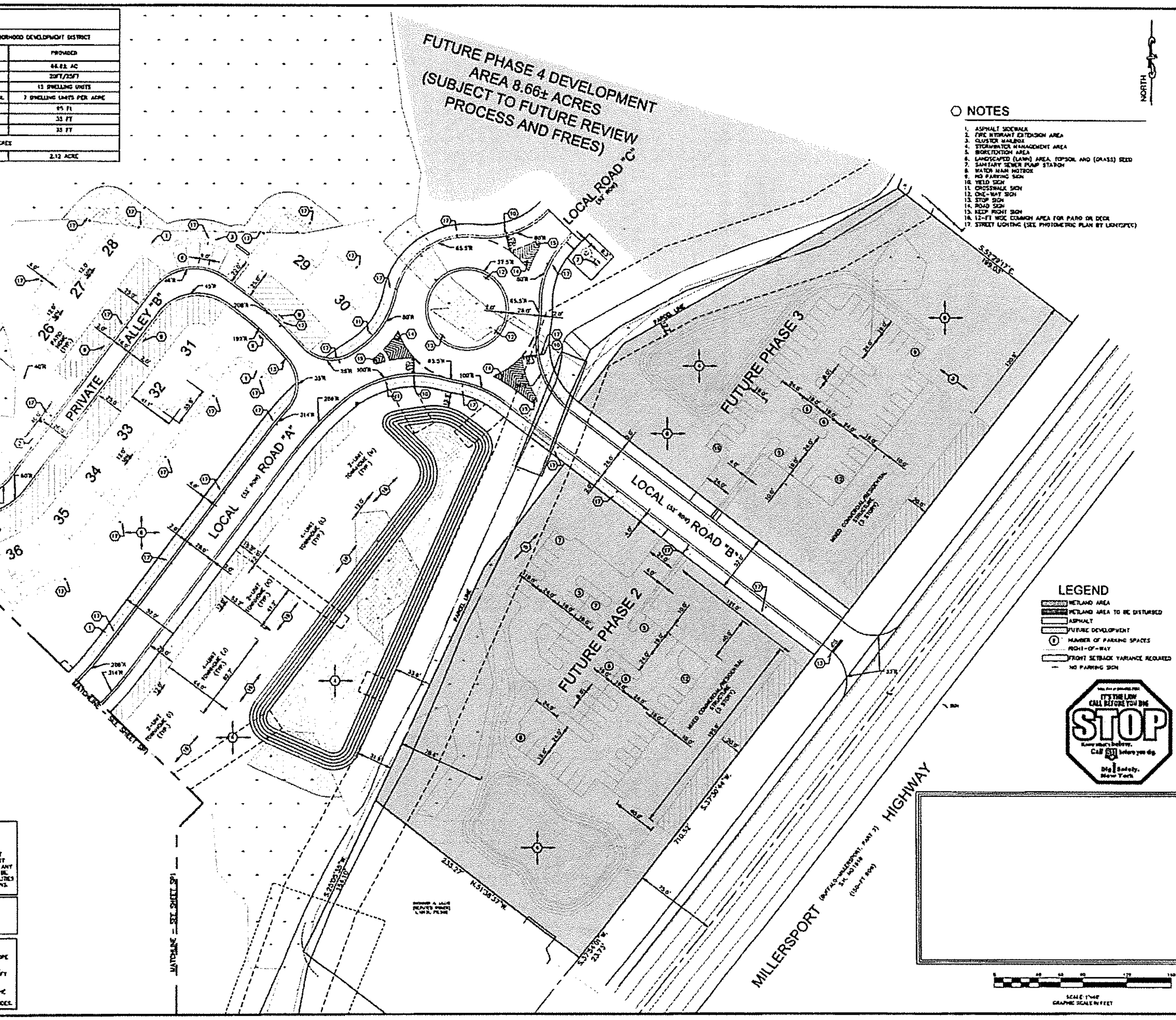

NOTES
1. ASPHALT SIDEWALK
2. FIRE HYDRANT EXTENSION AREA
3. CLUSTER MAILBOX
4. STORMWATER MANAGEMENT AREA
5. DISINFECTION AREA
6. LANDSCAPED (LAWN) AREA, TOPSOIL AND (GRASS) SEED
7. SANITARY SEWER PUMP STATION
8. WATER MAIN HOTBOX
9. ADA PARKING SIGN
10. YIELD SIGN
11. CROSSWALK SIGN
12. ONE-WAY SIGN
13. STOP SIGN
14. ROAD SIGN
15. KEEP RIGHT SIGN
16. 12'-0" WIDE COMMON AREA FOR PATIO OR DECK
17. STREET LIGHTING (SEE PHOTOMETRIC PLAN BY LIGHTSPEC)
SITE NOTES
1. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS (BY OTHERS) FOR EXACT NUMBERS, LOCATIONS, AND DIMENSIONS OF VESTIBULES, ENT PORCHES, PRECISE BUILDING DIMENSIONS, EXACT LOCATIONS AND NUMBER OF BUILDING UTILITY ENTRANCES AND ALL ROOF DRAIN AND WATER/SANITARY EXIT POINTS.
2. COORDINATE START-UP AND ALL CONSTRUCTION ACTIVITIES WITH OWNER'S CONSTRUCTION DIVISION.
3. CONSTRUCTION METHODS AND MATERIALS NOT SPECIFIED IN THESE PLANS ARE TO MEET OR EXCEED OWNER'S STANDARD SPECIFICATIONS OR AS SPECIFIED BY THE OWNER'S CONSTRUCTION.
4. THE CONTRACTOR SHALL CONDUCT THE WORK IN A MANNER THAT WILL ENSURE, AS FAR AS PRACTICABLE, THE LEAST OBSTRUCTION TO TRAFFIC AND SHALL PROVIDE FOR THE CONVENIENCE AND SAFETY OF THE GENERAL PUBLIC AND PEDESTRIANS ALONG AND ADJACENT TO HIGHWAYS IN THE CONSTRUCTION AREA, IN AN ADEQUATE AND SATISFACTORY MANNER.
5. THE CONTRACTOR SHALL LOCATE, MARK, SAFEGUARD AND PRESERVE ALL SURVEY CONTROL MONUMENTS AND BENCH MONUMENTS IN THE AREA OF CONSTRUCTION.
6. REFERENCES TO NYSDOT STANDARDS SHALL MEAN THE "STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, NYSDOT, DEPARTMENT OF TRANSPORTATION, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, MAY 1, 2021," WITH ALL CURRENT ADDENDUM.
7. PAVEMENT STRIPING AND PAINTING TRAFFIC CONTROL MARKINGS SHALL BE PAINTED WITH A WHITE TRAFFIC MARKING PAINT AS INDICATED ON THE DRAWINGS. PAINT SHALL BE SHERWIN WILLIAMS "PRO-MAR" TRAFFIC MARKING PAINT, SERIES B29V12, OR GLIDDEN TRAFFIC PAINT # 6333A. -ENTRANCE DIRECTIONAL ARROWS SHALL BE MARKED ON PAVEMENT IN WHITE IN LOCATION AND OF SIZE INDICATED ON DRAWINGS. -PAINT CONCRETE BASE AND BASE PLATE AT ALL PARKING LOT LIGHTING STANDARDS AND STEEL PIPE BASE OF HANDICAPPED PARKING IDENTIFICATION SIGN.
8. STUB EMPTY 2" CONDUIT OUT FROM BUILDING WALL, ROUTE TO PROPERTY LINE AND CAP FOR TELEPHONE INCOMING SERVICE. ROUTE CONDUIT MINIMUM OF 2'-6" BELOW FINISHED GRADE. COORDINATE ALL REQUIREMENTS WITH TELEPHONE CO. REPRESENTATIVE, INCLUDING ALL TRENCHING, BACKFILL, ETC. AS MAY BE REQUIRED FOR A COMPLETE, INCLUDING UNDERGROUND TO POLE SERVICE.
9. GRADING SHALL BE KEPT WITHIN THE LIMIT SHOWN ON THE GRADING PLAN. CONTRACTOR SHALL PROTECT EXISTING TREES AND VEGETATION OUTSIDE THE LIMITS OF GRADING.
10. BUILDING DIMENSIONS ARE INTENDED FOR BUILDING LAYOUT. SPECIFIC LAYOUT DIMENSIONS SHOULD UTILIZE THE ACTUAL BUILDING PLANS. ANY DISCREPANCIES BETWEEN THE GRADING PLANS AND THOSE INDICATED ON THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER PRIOR TO PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL STAKE OUT AND VERIFY EACH OF THE DIMENSIONS INDICATED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
11. THE CONTRACTOR SHOULD LOCATE ALL PERTINENT PROPERTY, EASEMENT AND/OR RIGHT OF WAY LINES PRIOR TO COMMENCEMENT OF THE WORK. THE CONTRACTOR SHALL NOT TRESPASS ON ADJACENT WORK ON OTHER PROPERTIES, EASEMENTS, OR RIGHT OF WAYS WITHOUT PROPERLY NOTIFYING AND MEETING THE NECESSARY REQUIREMENTS OF THE PROPERTY OWNER OR AUTHORIZED AGENCY.
12. ALL TRAFFIC CONTROL SIGNS, PAVEMENT MARKINGS AND TRAFFIC CONTROL SHALL CONFORM TO THE 2009 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, THE CURRENT NYS SUPPLEMENT AND NYSDOT 2020 WORK ZONE TRAFFIC CONTROL TYPICALS REGION 5 MANUALS.
13. THE LOCATION OF UTILITIES AND OTHER FEATURES AS SHOWN ON THE PLANS, ARE FROM THE BEST INFORMATION AVAILABLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD INVESTIGATE AND DETERMINE THE EXACT LOCATIONS OF UTILITIES, PRIOR TO CONSTRUCTION IN ORDER TO AVOID CONFLICTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT, SUPPORT AND MAINTAIN ALL EXISTING UTILITIES DURING THE COURSE OF HIS OPERATIONS. DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
14. ALL WORK WITHIN THE ROW OF MILLERSPORT HIGHWAY AND SMITH ROAD TO CONFORM TO ERIE COUNTY/NYSDOT REQUIREMENTS AND SHALL REQUIRE OBTAINING A ERIE COUNTY/NYSDOT HIGHWAY WORK PERMIT. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL HIGHWAY WORK PERMITS AND FOR GENERATION OF REQUIRED MAINTENANCE AND PROTECTION OF TRAFFIC PLAN. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL OTHER PERMITS NOT DESCRIBED HERE IN THIS NOTE (I.E. SWPPP, WATER PERMITS)
15. THE PLANS AND SPECIFICATIONS FOR THIS PROJECT HAVE BEEN PREPARED WITH CARE AND ARE INTENDED TO SHOW AS CLEARLY AS IS PRACTICABLE THE WORK REQUIRED TO BE DONE. THE CONTRACTOR MUST REALIZE, HOWEVER, THAT CONSTRUCTION DETAILS CAN NOT ALWAYS BE ACCURATELY ANTICIPATED AND THAT IN EXECUTING THE WORK, FIELD CONDITIONS MAY REQUIRE REASONABLE MODIFICATIONS. IF THE DETAILS OF PLANS AND QUANTITIES OF WORK INVOLVED, ALL WORK MUST BE CARRIED OUT TO MEET ACTUAL FIELD CONDITIONS TO THE SATISFACTION OF THE ENGINEER AND DEVELOPER IN ACCORDANCE WITH THEIR INSTRUCTIONS.
16. THE CONTRACTOR SHALL BE AWARE THAT SOIL CONDITIONS ARE UNKNOWN AND ASSUME TO VARY AT DIFFERENT DEPTHS AND LOCATIONS.
KEY PLAN
SP1
SP2
LEGEND
WETLAND AREA
WETLAND AREA TO BE DISTURBED
ASPHALT
FUTURE DEVELOPMENT
NUMBER OF PARKING SPACES
RIGHT-OF-WAY
FRONT SETBACK VARIANCE REQUIRED
NO PARKING SIGN
DETAILS OF DEVELOPMENT
ZONING: RMD: TRADITIONAL NEIGHBORHOOD DEVELOPMENT DISTRICT
DISTRICT AREA: MIN./MAX. 40 AC MIN; PROVIDED 44.85 AC
FRONT SETBACK: MIN./MAX. 6 FT MAX; PROVIDED 20FT/25FT
DENSITY PER ACRE: MIN./MAX. 20 DWELLING UNITS MAX; PROVIDED 15 DWELLING UNITS
DENSITY OVERALL: MIN./MAX. 15 DWELLING UNITS PER ACRE MAX; PROVIDED 7 DWELLING UNITS PER ACRE
SETBACK FROM ℄ MILLERSPORT: MIN./MAX. 115 FT FROM ℄; PROVIDED 95 FT
STRUCTURE HEIGHT (TOWNHOMES): MIN./MAX. 30 FT MAX; PROVIDED 33 FT
STRUCTURE HEIGHT (PATIO HOMES): MIN./MAX. 30 FT MAX; PROVIDED 33 FT
PHASE 1 DEVELOPMENT AREA=16.2 ACRES
MAXIMUM BUILDING COVERAGE: MIN./MAX. 25% = 8.46 ACRE; PROVIDED 2.93 ACRE
NOTES:
1. ENTIRE LIMITS OF THE PROJECT AREA FALLS WITHIN THE 100-YR FLOODPLAIN (1% ANNUAL CHANCE FLOOD)
100 YR BASE FLOOD ELEVATION = 560.0'
FIRM MAP #36029C0088H
TYPICAL LAYOUT FOR 4-UNIT TOWNHOME, 2-UNIT TOWNHOME AND PATIO HOME UNIT
4-UNIT TOWNHOME
2-UNIT TOWNHOME
PATIO HOME
TYPICAL AC/GENERATOR UNIT LOCATION
MATCHLINE - SEE SHEET SP2
PRIVATE ALLEY "A"
PRIVATE ALLEY "B"
LOCAL (52' ROW) ROAD "A"
ARCHAEOLOGICAL SITE "ENVIRONMENTALLY SENSITIVE AREA - NO ACCESS."
TEMPORARY FENCING
SMITH ROAD (66 FT ROW)
CAUTION - NOTICE TO CONTRACTOR
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
IMPORTANT NOTE:
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT WORKSCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS AND IN FULL COMPLIANCE WITH LOCAL REGULATIONS AND CODES.
IMPORTANT NOTE:
CONTRACTOR IS TO CONTACT THE "UNDERGROUND FACILITY PROTECTIVE ORGANIZATION" (1-800-962-7962) TO HAVE ALL EXISTING UTILITIES LOCATED AND MARKED PRIOR TO ANY DEMOLITION, CONSTRUCTION OR EXCAVATION ON THE SITE.
SCALE 1"=40'
GRAPHIC SCALE IN FEET
IT'S THE LAW CALL BEFORE YOU DIG
STOP
Dig Safely. New York
DRAWING REVISIONS
REV 1 11/30/23 REVISED PER TOWN AND AGENCY COMMENTS
REV 2 12/14/23 REVISED PER TOWN COMMENTS
REV 3 12/21/23 REVISED PER TOWN, ERIE COUNTY, DOH & DEC
DESIGNED BY: PMB
DRAWN BY: DLB
CHECKED BY: WES
DATE:
WM SCHUTT ASSOCIATES
37 CENTRAL AVE.
LANCASTER, NY 14086-2146
PH. 716-683-3961
FAX 716-683-0169
WWW.WMSCHUTT.COM
4300 MILLERSPORT DEVELOPMENT
TOWN OF AMHERST
ERIE COUNTY - NEW YORK
SITE PLAN
THIS SHEET ISSUED DECEMBER 14, 2023
SP1
DRAWING SCALE: 1"=40'
WSA PROJECT NO. 13027C

DETAILS OF DEVELOPMENT		
ZONING	TND: TRADITIONAL NEIGHBORHOOD DEVELOPMENT DISTRICT	
	MIN./MAX.	PROVIDED
DISTRICT AREA	40 AC MIN.	66.82 AC
FRONT SETBACK	8 FT MAX	20FT/25FT
DENSITY PER ACRE	30 DWELLING UNITS MAX.	15 DWELLING UNITS
DENSITY OVERALL	15 DWELLING UNITS PER ACRE MAX.	7 DWELLING UNITS PER ACRE
SETBACK FROM ℄ MILLERSPORT	115 FT FROM ℄	95 FT
STRUCTURE HEIGHT (TOWNHOMES)	50 FT MAX	35 FT
STRUCTURE HEIGHT (PATIO HOMES)	50 FT MAX	35 FT
PHASE 1 DEVELOPMENT AREA=14.2 ACRES		
MAXIMUM BUILDING COVERAGE	35% = 4.49 ACRE	2.12 ACRE

NOTES:

1. ENTIRE LIMITS OF THE PROJECT AREA FALLS WITHIN THE 100-YR FLOODPLAIN (1% ANNUAL CHANCE FLOOD)

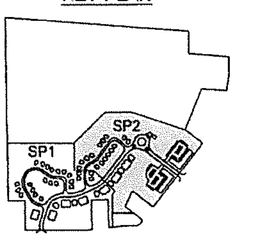
   100 YR BASE FLOOD ELEVATION = 580.0'
   FIRM MAP #36029C0086H



○ NOTES

1. ASPHALT SIDEWALK
2. FIRE HYDRANT EXTENSION AREA
3. CLUSTER MAILBOX
4. STORMWATER MANAGEMENT AREA
5. BIORETENTION AREA
6. LANDSCAPED (LAWN) AREA, TOPSOIL AND (GRASS) SEED
7. SANITARY SEWER PUMP STATION
8. WATER MAIN HOTBOX
9. NO PARKING SIGN
10. YIELD SIGN
11. CROSSWALK SIGN
12. ONE-WAY SIGN
13. STOP SIGN
14. ROAD SIGN
15. KEEP RIGHT SIGN
16. 12-FT WIDE COMMON AREA FOR PATIO OR DECK
17. STREET LIGHTING (SEE PHOTOMETRIC PLAN BY LIGHTSPEC)

KEY PLAN



CAUTION – NOTICE TO CONTRACTOR
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

IMPORTANT NOTE:
CONTRACTOR IS TO CONTACT THE "UNDERGROUND FACILITY PROTECTIVE ORGANIZATION" (1-800-962-7962) TO HAVE ALL EXISTING UTILITIES LOCATED AND MARKED PRIOR TO ANY DEMOLITION, CONSTRUCTION OR EXCAVATION ON THE SITE.

IMPORTANT NOTE:
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT WORKSCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS AND IN FULL CONFORMANCE WITH LOCAL REGULATIONS AND CODES.

DRAWING REVISIONS		
ITEM	DATE	DESCRIPTION
1	7/20/22	REVISED PER TOWN AND AGENCY COMMENTS
2	11/07/22	REVISED PER TOWN COMMENTS
3	12/13/22	REVISED PER TOWN, STREET CONFIG & ECM

DESIGNED BY: PMB
DRAWN BY: DLS
CHECKED BY: WES
DATE:

WARNING
ALTERING THIS DOCUMENT IS IN VIOLATION OF THE LAW EXCEPTING AS PROVIDED IN SECTION 7209, PART 2 OF THE NEW YORK STATE EDUCATION LAW. © COPYRIGHT 2022 WM. SCHUTT & ASSOCIATES P.C.

WM SCHUTT ASSOCIATES
37 CENTRAL AVE.
LANCASTER, NY 14086-2143
PH. 716-683-5961
FAX 716-683-0169
WWW.WMSCHUTT.COM

4300 MILLERSPORT DEVELOPMENT
TOWN OF AMHERST
ERIE COUNTY - NEW YORK

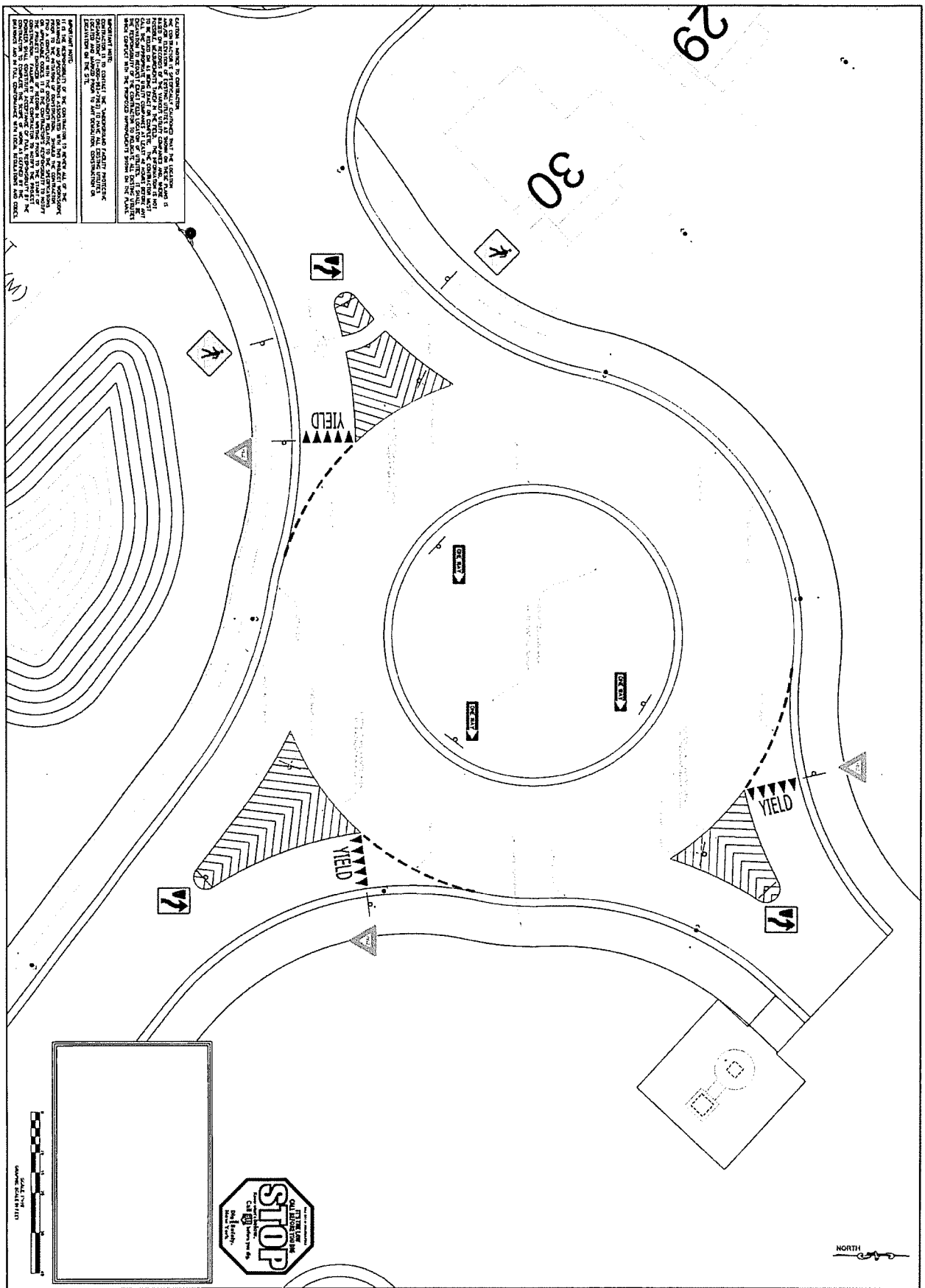
SITE PLAN

THIS SHEET ISSUED DECEMBER 14, 2022

SP2

DRAWINGS SCALE: 1"=40'

WSA PROJECT NO. 13027C



4300 MILLERSPORT DEVELOPMENT

TOWN OF AMHERST
ERIE COUNTY - NEW YORK

ROUNDABOUT DETAIL

SP3

WM SCHUTT ASSOCIATES
37 CENTRAL AVE.
LANCASTER, NY 14086-2143
PH. 716-683-5961
FAX 716-683-0169
WWW.WMSCHUTT.COM

DESIGNED BY: PMB
DRAWN BY: DLS
CHECKED BY: WES
DATE:

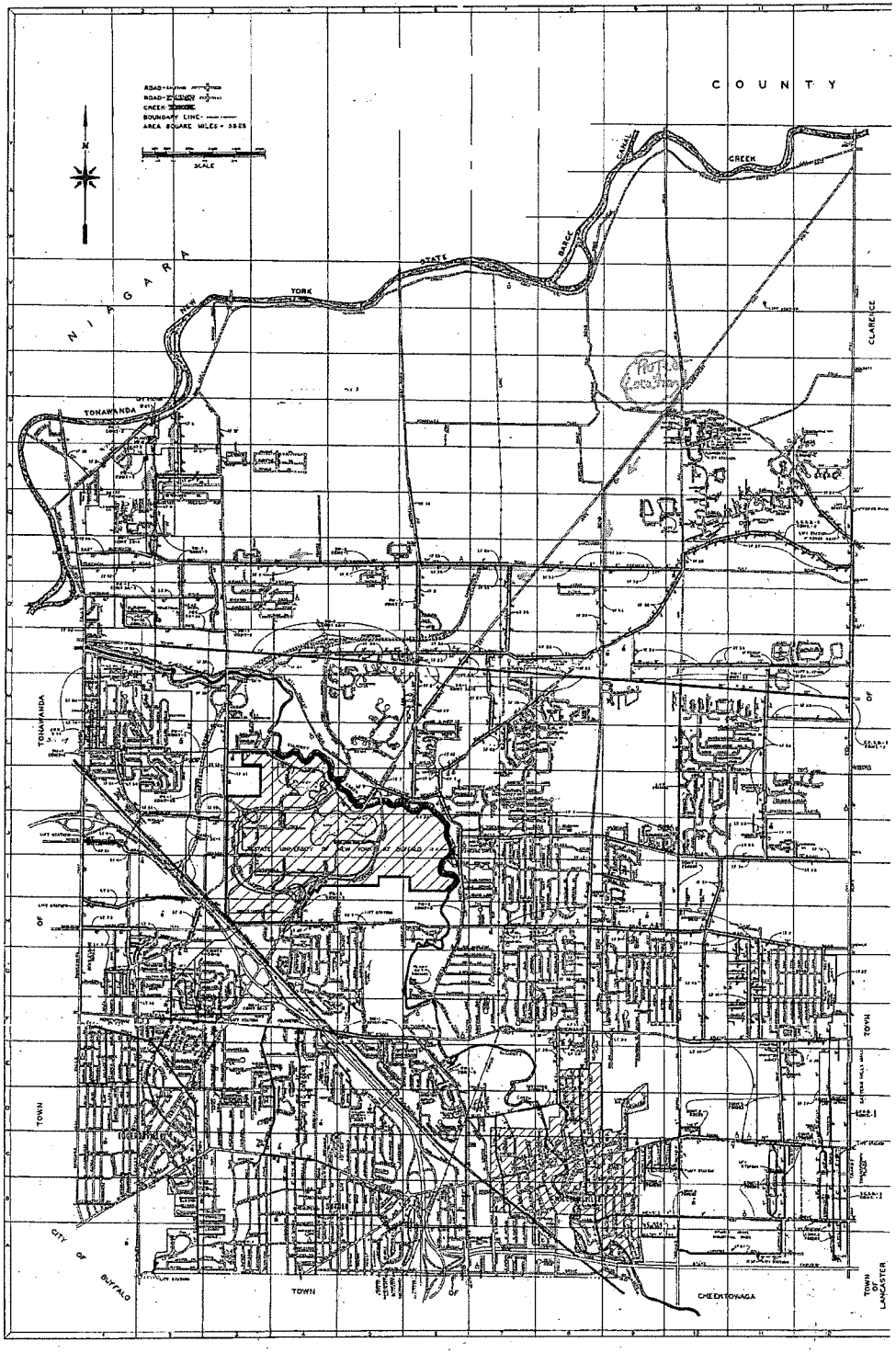
DRAWING REVISIONS

ITEM	DATE	DESCRIPTION
1	7/20/22	REVISED PER TOWN AND AGENCY COMMENTS
2	11/03/22	REVISED PER TOWN COMMENTS
3	12/14/22	REVISED PER TOWN, NYSDOT, COUNTY & CONS

PAGE SHEET ISSUED DECEMBER 14, 2022
DRAWING SCALE: 1"=10'
WSA PROJECT NO. 1307C

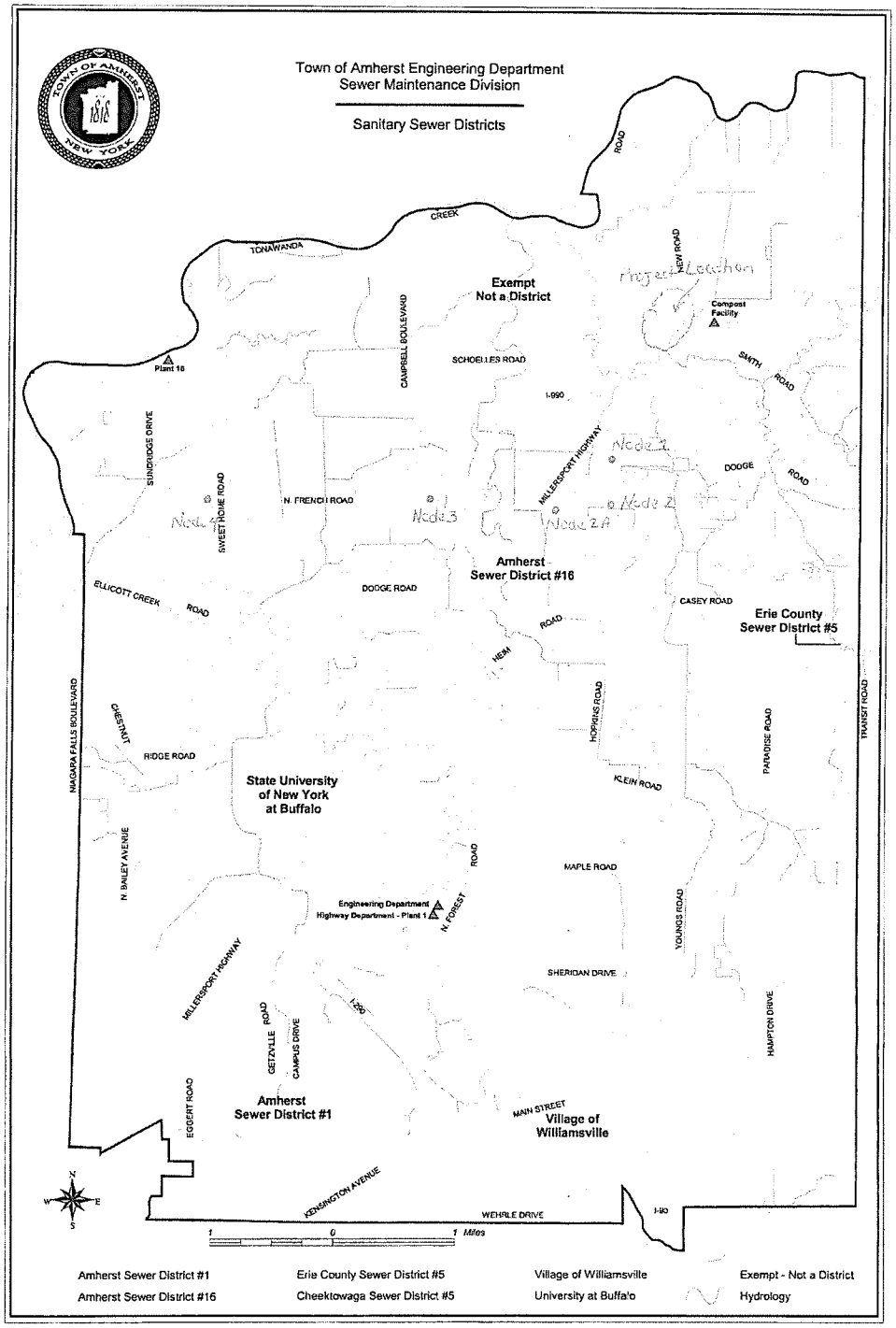
APPENDIX A

DOWNSTREAM ROUTING PLAN


COUNTY
NIAGARA
TONAWANDA
YORK
STATE
BARGE
CANAL
GREEK
CLARENCE
TOWN
OF
TOWN
OF
CHEEKTOWAGA
TOWN
OF
LANCASTER
CITY
OF
BUFFALO
SCALE

APPENDIX B

FLOW METER NODE LOCATIONS

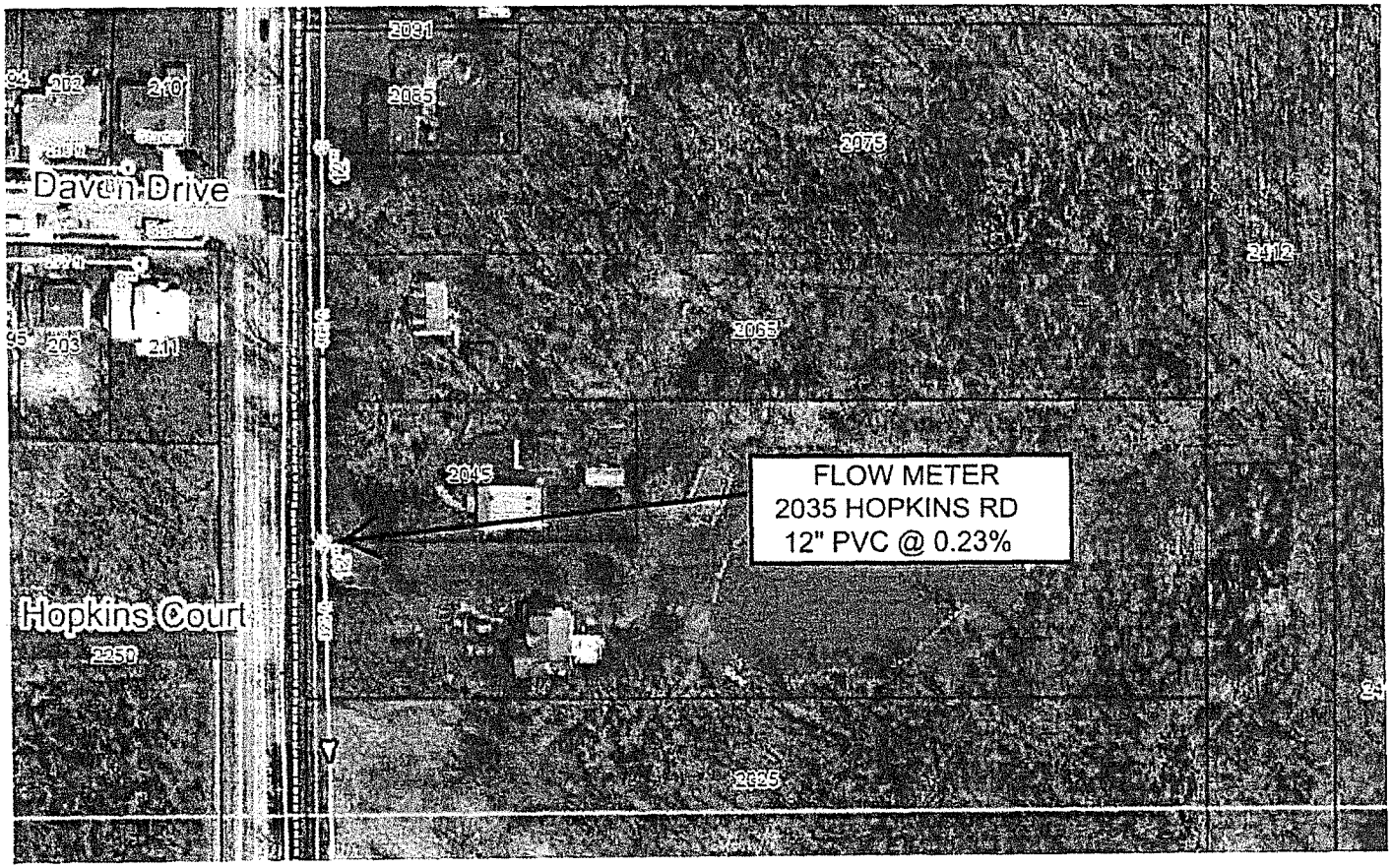

Town of Amherst Engineering Department
Sewer Maintenance Division
Sanitary Sewer Districts
TONAWANDA CREEK ROAD
NEW ROAD
Exempt
Not a District
Compost Facility
Plant 16
CAMPBELL BOULEVARD
SCHOELLES ROAD
SMITH ROAD
I-990
SUNDRIDGE DRIVE
SWEET HOME ROAD
N. FRENCH ROAD
MILLERSPORT HIGHWAY
DODGE ROAD
Node 1
Node 2
Node 2A
Node 3
Node 4
Amherst
Sewer District #16
ELLICOTT CREEK ROAD
DODGE ROAD
CASEY ROAD
Erie County
Sewer District #5
NIAGARA FALLS BOULEVARD
CHESTNUT RIDGE ROAD
HOPKINS ROAD
PARADISE ROAD
TRANSIT ROAD
State University
of New York
at Buffalo
KLEIN ROAD
N. BAILEY AVENUE
MAPLE ROAD
Engineering Department
Highway Department - Plant 1
N. FOREST ROAD
YOUNGS ROAD
SHERIDAN DRIVE
MILLERSPORT HIGHWAY
GETZVILLE ROAD
CAMPUS DRIVE
I-990
HAMPTON DRIVE
EGGERT ROAD
Amherst
Sewer District #1
MAIN STREET
Village of
Williamsville
KENSINGTON AVENUE
WEHRLE DRIVE
I-90
N
W
E
S
1 0 1 Miles
Amherst Sewer District #1
Amherst Sewer District #16
Erie County Sewer District #5
Cheektowaga Sewer District #5
Village of Williamsville
University at Buffalo
Exempt - Not a District
Hydrology

APPENDIX C

FLOW METER RECORDS

NODE 1

12-inch sanitary sewer, 2035 Hopkins Road (obtained from 2018 data provided by Town of Amherst)


Daven Drive
Hopkins Court
FLOW METER
2035 HOPKINS RD
12" PVC @ 0.23%

Data Summary Report

Custom
Amherst Engineering
00000004_2035 Hopkins
10/10/2018 12:00 AM - 11/20/2018 04:52 PM

Level Summary

Maximum (in):	11.71	11/02/2018 12:45 AM
Minimum (in):	0.83	11/08/2018 06:50 AM
Average (in):	2.78	

Date	Maximum (In)	Maximum Time	Minimum (In)	Minimum Time	Average (In)
10/10/2018 12:00 AM	3.78	21:10	1.81	03:35	2.78
10/11/2018 12:00 AM	3.67	08:20	1.75	04:20	2.78
10/12/2018 12:00 AM	3.73	09:00	1.73	06:30	2.70
10/13/2018 12:00 AM	3.96	11:20	1.62	05:25	2.82
10/14/2018 12:00 AM	4.01	13:40	1.64	07:35	2.96
10/15/2018 12:00 AM	3.94	21:10	1.67	05:00	2.94
10/16/2018 12:00 AM	3.89	21:25	1.67	06:15	2.77
10/17/2018 12:00 AM	3.84	08:40	1.68	05:05	2.76
10/18/2018 12:00 AM	4.01	08:00	1.73	05:15	2.84
10/19/2018 12:00 AM	3.76	09:35	1.51	05:10	2.72
10/20/2018 12:00 AM	3.90	11:40	1.56	04:10	2.81
10/21/2018 12:00 AM	3.89	11:20	1.62	03:35	2.84
10/22/2018 12:00 AM	3.83	09:15	1.67	05:30	2.74
10/23/2018 12:00 AM	3.78	21:30	1.73	04:20	2.69
10/24/2018 12:00 AM	3.72	07:40	1.67	03:20	2.74
10/25/2018 12:00 AM	3.67	08:10	1.56	04:15	2.69
10/26/2018 12:00 AM	3.66	08:15	1.56	04:05	2.70
10/27/2018 12:00 AM	4.39	11:30	1.61	04:50	2.83
10/28/2018 12:00 AM	3.84	14:05	1.72	06:15	2.91
10/29/2018 12:00 AM	3.77	20:45	1.57	04:25	2.73
10/30/2018 12:00 AM	3.61	22:05	1.75	06:30	2.67
10/31/2018 12:00 AM	3.82	08:00	1.84	06:05	2.71
11/01/2018 12:00 AM	10.99	23:50	1.90	02:20	3.57
11/02/2018 12:00 AM	11.71	00:45	2.52	16:25	6.69
11/03/2018 12:00 AM	4.01	10:25	1.92	06:20	3.01
11/04/2018 12:00 AM	4.10	11:15	1.96	06:50	3.00
11/05/2018 12:00 AM	3.89	08:35	1.90	04:55	2.91
11/06/2018 12:00 AM	3.85	09:30	1.90	03:45	2.87
11/07/2018 12:00 AM	3.94	08:55	1.19	18:30	2.39
11/08/2018 12:00 AM	2.75	09:35	0.83	06:50	1.77
11/09/2018 12:00 AM	2.92	21:35	0.90	05:00	1.90
11/10/2018 12:00 AM	3.10	11:55	0.94	07:10	2.06
11/11/2018 12:00 AM	3.26	11:25	1.04	04:45	2.22
11/12/2018 12:00 AM	3.20	21:05	1.11	07:05	2.29
11/13/2018 12:00 AM	3.20	22:40	1.34	06:05	2.31
11/14/2018 12:00 AM	3.43	23:35	1.33	06:50	2.41
11/15/2018 12:00 AM	3.60	22:20	1.45	07:10	2.53
11/16/2018 12:00 AM	3.60	10:00	1.83	06:40	2.73
11/17/2018 12:00 AM	3.83	12:55	1.69	07:15	2.86
11/18/2018 12:00 AM	3.66	14:30	1.85	07:35	2.87
11/19/2018 12:00 AM	3.76	09:55	1.78	06:00	2.74
11/20/2018 12:00 AM	3.66	09:10	1.72	07:10	2.62

Data Summary Report

Custom
Amherst Engineering
00000004_2035 Hopkins
10/10/2018 12:00 AM - 11/20/2018 04:52 PM

Velocity Summary

Maximum (fps):	4.03	11/07/2018 01:05 PM
Minimum (fps):	0.00	10/12/2018 06:30 AM
Average (fps):	0.69	

Date	Maximum (fps)	Maximum Time	Minimum (fps)	Minimum Time	Average (fps)
10/10/2018 12:00 AM	1.24	20:50	0.39	06:15	0.81
10/11/2018 12:00 AM	1.24	08:40	0.34	04:50	0.80
10/12/2018 12:00 AM	1.25	09:00	0.00	06:30	0.75
10/13/2018 12:00 AM	1.34	11:20	0.00	04:45	0.79
10/14/2018 12:00 AM	1.30	12:10	0.00	02:55	0.80
10/15/2018 12:00 AM	1.21	09:05	0.00	02:45	0.73
10/16/2018 12:00 AM	1.21	21:25	0.00	03:20	0.74
10/17/2018 12:00 AM	1.26	21:40	0.00	01:50	0.74
10/18/2018 12:00 AM	1.23	20:55	0.00	01:40	0.72
10/19/2018 12:00 AM	1.14	12:00	0.00	01:20	0.73
10/20/2018 12:00 AM	1.24	12:00	0.00	03:15	0.76
10/21/2018 12:00 AM	1.32	10:20	0.00	00:50	0.74
10/22/2018 12:00 AM	1.15	07:45	0.00	01:45	0.66
10/23/2018 12:00 AM	1.17	21:55	0.00	02:10	0.66
10/24/2018 12:00 AM	1.19	21:40	0.00	01:00	0.72
10/25/2018 12:00 AM	1.23	20:55	0.00	02:25	0.72
10/26/2018 12:00 AM	1.17	08:15	0.00	03:00	0.71
10/27/2018 12:00 AM	1.27	13:45	0.00	03:15	0.77
10/28/2018 12:00 AM	1.20	14:05	0.00	04:00	0.77
10/29/2018 12:00 AM	1.25	08:15	0.00	01:20	0.75
10/30/2018 12:00 AM	1.23	07:45	0.00	04:05	0.73
10/31/2018 12:00 AM	1.22	08:30	0.00	02:10	0.72
11/01/2018 12:00 AM	1.32	20:55	0.00	02:00	0.70
11/02/2018 12:00 AM	1.23	23:15	0.00	04:50	0.51
11/03/2018 12:00 AM	1.30	13:15	0.11	21:50	0.84
11/04/2018 12:00 AM	1.54	22:45	0.00	03:20	0.61
11/05/2018 12:00 AM	1.01	04:35	0.00	00:00	0.23
11/06/2018 12:00 AM	0.84	14:20	0.00	00:10	0.18
11/07/2018 12:00 AM	4.03	13:05	0.00	00:00	0.45
11/08/2018 12:00 AM	1.37	08:55	0.17	14:30	0.78
11/09/2018 12:00 AM	1.21	09:30	0.00	04:45	0.74
11/10/2018 12:00 AM	1.30	11:55	0.00	06:25	0.72
11/11/2018 12:00 AM	1.28	11:10	0.00	04:30	0.77
11/12/2018 12:00 AM	1.22	20:40	0.00	03:15	0.75
11/13/2018 12:00 AM	1.18	21:00	0.07	03:15	0.68
11/14/2018 12:00 AM	1.20	08:55	0.07	03:30	0.67
11/15/2018 12:00 AM	1.19	22:20	0.00	05:55	0.69
11/16/2018 12:00 AM	1.26	09:20	0.05	02:40	0.63
11/17/2018 12:00 AM	1.26	12:35	0.14	15:20	0.83
11/18/2018 12:00 AM	1.31	23:45	0.00	05:40	0.82
11/19/2018 12:00 AM	1.31	08:55	0.00	17:10	0.62
11/20/2018 12:00 AM	1.22	08:45	0.00	03:00	0.42

Data Summary Report

Custom
Amherst Engineering
00000004_2035 Hopkins
10/10/2018 12:00 AM - 11/20/2018 04:52 PM

Flow Summary

Maximum (mgd):	0.2809	11/07/2018 01:05 PM
Minimum (mgd):	0.0000	10/12/2018 06:30 AM
Average (mgd):	0.0663	
Total (gal):	2,754,117.5	

Date	Maximum (mgd)	Maximum Time	Minimum (mgd)	Minimum Time	Average (mgd)	Total (gal)	
10/10/2018 12:00 AM	0.1665	21:10	0.0187	06:15	0.0766	76,596.3	
10/11/2018 12:00 AM	0.1604	08:20	0.0166	05:25	0.0763	76,311.0	
10/12/2018 12:00 AM	0.1687	09:00	0.0000	06:30	0.0698	69,836.9	
10/13/2018 12:00 AM	0.1955	11:20	0.0000	04:45	0.0802	80,203.1	
10/14/2018 12:00 AM	0.1865	12:10	0.0000	02:55	0.0868	86,836.2	
10/15/2018 12:00 AM	0.1727	09:05	0.0000	02:45	0.0782	78,174.6	
10/16/2018 12:00 AM	0.1727	21:25	0.0000	03:20	0.0730	72,959.4	
10/17/2018 12:00 AM	0.1742	08:40	0.0000	01:50	0.0720	71,981.5	
10/18/2018 12:00 AM	0.1791	08:00	0.0000	01:40	0.0734	73,417.4	
10/19/2018 12:00 AM	0.1434	12:00	0.0000	01:20	0.0697	69,681.4	
10/20/2018 12:00 AM	0.1765	11:40	0.0000	03:15	0.0769	76,894.8	
10/21/2018 12:00 AM	0.1703	10:20	0.0000	00:50	0.0776	77,589.3	
10/22/2018 12:00 AM	0.1544	07:45	0.0000	01:45	0.0650	64,975.8	
10/23/2018 12:00 AM	0.1575	21:30	0.0000	02:10	0.0638	63,765.3	
10/24/2018 12:00 AM	0.1498	21:40	0.0000	01:00	0.0696	69,588.4	
10/25/2018 12:00 AM	0.1590	08:10	0.0000	02:25	0.0687	68,699.0	
10/26/2018 12:00 AM	0.1537	08:15	0.0000	03:00	0.0673	67,266.3	
10/27/2018 12:00 AM	0.1895	11:30	0.0000	03:15	0.0792	79,168.9	
10/28/2018 12:00 AM	0.1682	14:05	0.0000	04:00	0.0820	81,987.9	
10/29/2018 12:00 AM	0.1680	08:15	0.0000	01:20	0.0724	72,371.4	
10/30/2018 12:00 AM	0.1520	07:45	0.0000	04:05	0.0679	67,941.8	
10/31/2018 12:00 AM	0.1633	08:30	0.0000	02:10	0.0683	68,310.7	
11/01/2018 12:00 AM	0.2124	20:55	0.0000	02:00	0.0841	84,147.0	
11/02/2018 12:00 AM	0.1703	07:55	0.0000	04:50	0.0960	96,017.3	
11/03/2018 12:00 AM	0.1868	13:15	0.0091	21:50	0.0895	89,493.4	
11/04/2018 12:00 AM	0.1665	12:05	0.0000	03:20	0.0662	66,229.1	
11/05/2018 12:00 AM	0.1092	00:10	0.0000	00:00	0.0241	24,149.5	
11/06/2018 12:00 AM	0.1047	09:55	0.0000	00:10	0.0200	20,024.6	
~~11/07/2018 12:00 AM~~	~~0.2809~~	~~13:05~~	~~0.0000~~	~~00:00~~	~~0.0284~~	~~28,435.0~~	Bad Data Little Rainfall
11/08/2018 12:00 AM	0.1123	08:55	0.0038	06:50	0.0413	41,323.7	
11/09/2018 12:00 AM	0.1102	21:35	0.0000	04:45	0.0434	43,378.7	
11/10/2018 12:00 AM	0.1353	11:55	0.0000	06:25	0.0489	48,860.8	
11/11/2018 12:00 AM	0.1348	15:15	0.0000	04:30	0.0580	57,966.9	
11/12/2018 12:00 AM	0.1253	21:05	0.0000	03:15	0.0574	57,418.6	
11/13/2018 12:00 AM	0.1217	09:35	0.0026	03:15	0.0530	52,953.8	
11/14/2018 12:00 AM	0.1380	23:35	0.0031	02:55	0.0552	55,174.0	
11/15/2018 12:00 AM	0.1522	22:20	0.0000	05:55	0.0598	59,847.1	
11/16/2018 12:00 AM	0.1583	10:00	0.0028	02:40	0.0621	62,132.6	
11/17/2018 12:00 AM	0.1661	12:55	0.0127	17:40	0.0831	83,054.8	
11/18/2018 12:00 AM	0.1677	11:35	0.0000	05:40	0.0841	84,143.1	
11/19/2018 12:00 AM	0.1724	08:55	0.0000	17:10	0.0617	61,661.9	
11/20/2018 12:00 AM	0.1557	08:45	0.0000	03:00	0.0427	23,148.2	

NODE 2

24-inch sanitary sewer, North French Road at Hopkins (data obtained from 2019 data as provided by Town of Amherst)

Data Summary Report

Custom
Amherst Engineering
00000009_French @ Hopkins
03/28/2019 12:00 AM - 04/11/2019 08:29 AM

Level Summary

Maximum (in):	54.49	03/31/2019 04:45 PM
Minimum (in):	5.01	03/28/2019 05:30 AM
Average (in):	17.68	

Date	Maximum (in)	Maximum Time	Minimum (In)	Minimum Time	Average (In)
03/28/2019 12:00 AM	14.53	21:45	5.01	05:30	10.54
03/29/2019 12:00 AM	13.85	12:30	8.25	05:45	12.15
03/30/2019 12:00 AM	20.88	23:45	8.21	06:30	13.99
03/31/2019 12:00 AM	54.49	16:45	21.13	00:00	45.84
04/01/2019 12:00 AM	45.34	00:00	21.34	07:30	26.79
04/02/2019 12:00 AM	23.15	00:00	15.34	06:00	18.55
04/03/2019 12:00 AM	18.56	00:00	12.99	05:30	16.21
04/04/2019 12:00 AM	16.53	12:00	11.39	05:15	14.79
04/05/2019 12:00 AM	15.98	22:15	10.43	06:15	14.21
04/06/2019 12:00 AM	17.76	14:00	10.65	06:15	14.71
04/07/2019 12:00 AM	16.54	12:45	9.92	06:30	13.98
04/08/2019 12:00 AM	23.79	11:45	12.04	02:45	18.52
04/09/2019 12:00 AM	18.11	00:00	12.13	05:45	15.37
04/10/2019 12:00 AM	15.96	00:00	10.52	05:45	14.02
04/11/2019 12:00 AM	15.34	00:00	9.64	06:00	11.71

Data Summary Report

Custom
Amherst Engineering
00000009_French @ Hopkins
03/28/2019 12:00 AM - 04/11/2019 08:29 AM

Velocity Summary

Maximum (fps):	2.12 04/08/2019 05:45 AM
Minimum (fps):	1.38 03/28/2019 07:00 AM
Average (fps):	1.94

Date	Maximum (fps)	Maximum Time	Minimum (fps)	Minimum Time	Average (fps)
03/28/2019 12:00 AM	1.95	11:30	1.38	07:00	1.81
03/29/2019 12:00 AM	1.92	20:15	1.74	05:15	1.86
03/30/2019 12:00 AM	1.97	22:00	1.73	07:45	1.88
03/31/2019 12:00 AM	2.10	16:30	1.74	01:45	2.00
04/01/2019 12:00 AM	2.02	00:15	1.73	05:15	1.85
04/02/2019 12:00 AM	2.07	02:30	1.85	00:00	1.98
04/03/2019 12:00 AM	2.05	01:30	1.92	05:00	1.99
04/04/2019 12:00 AM	2.02	11:15	1.89	04:45	1.97
04/05/2019 12:00 AM	2.03	22:00	1.88	04:15	1.96
04/06/2019 12:00 AM	2.02	19:15	1.91	05:15	1.96
04/07/2019 12:00 AM	2.03	23:45	1.87	06:30	1.96
04/08/2019 12:00 AM	2.12	05:45	1.88	12:15	1.98
04/09/2019 12:00 AM	2.06	17:30	1.91	04:30	2.02
04/10/2019 12:00 AM	2.04	11:45	1.87	03:15	1.98
04/11/2019 12:00 AM	2.01	00:15	1.87	04:30	1.93

Data Summary Report

Custom
Amherst Engineering
00000009_French @ Hopkins
03/28/2019 12:00 AM - 04/11/2019 08:29 AM

Flow Summary

Maximum (mgd):	4.2569	03/31/2019 04:30 PM
Minimum (mgd):	0.4808	03/28/2019 05:30 AM
Average (mgd):	2.7177	
Total (gal):	39,007,813.8	

Date	Maximum (mgd)	Maximum Time	Minimum (mgd)	Minimum Time	Average (mgd)	Total (gal)
03/28/2019 12:00 AM	2.4863	21:45	0.4808	05:30	1.6156	1,615,631.6
03/29/2019 12:00 AM	2.3084	00:00	1.1003	05:45	1.9320	1,932,015.6
03/30/2019 12:00 AM	3.5842	23:45	1.0660	06:00	2.3174	2,317,350.0
03/31/2019 12:00 AM	4.2569	16:30	3.5317	01:45	4.0633	4,063,289.3
04/01/2019 12:00 AM	4.1027	00:15	3.5200	05:15	3.7310	3,730,985.9
04/02/2019 12:00 AM	3.7349	00:30	2.6935	05:00	3.3225	3,322,477.2
04/03/2019 12:00 AM	3.3783	00:00	2.1803	05:15	2.8927	2,892,648.7
04/04/2019 12:00 AM	3.0080	12:00	1.8185	05:15	2.5877	2,587,709.7
04/05/2019 12:00 AM	2.8983	22:00	1.6046	06:15	2.4490	2,448,956.6
04/06/2019 12:00 AM	3.2121	13:45	1.6883	06:15	2.5527	2,552,671.0
04/07/2019 12:00 AM	2.9569	13:15	1.4856	06:30	2.4098	2,409,811.7
04/08/2019 12:00 AM	3.8818	11:00	1.9822	03:00	3.2530	3,252,982.0
04/09/2019 12:00 AM	3.3358	00:00	2.0544	06:15	2.7675	2,767,527.0
04/10/2019 12:00 AM	2.9087	00:00	1.6720	05:45	2.4412	2,441,225.2
04/11/2019 12:00 AM	2.7466	00:00	1.4623	05:00	1.9027	672,532.4

NODE 2A

24-inch sanitary sewer, North French Road - east of Millersport Highway (data obtained Town of Amherst)

Town of Amherst Data

Data Summary Report

Custom
Amherst Engineering
00000007_N French EO Millersport
07/01/2019 12:00 AM - 09/23/2019 11:30 PM

Level Summary

Maximum (in):	22.16	07/06/2019 06:15 PM
Minimum (in):	10.52	09/21/2019 06:45 AM
Average (in):	14.46	

Date	Maximum (in)	Maximum Time	Minimum (in)	Minimum Time	Average (in)
07/01/2019 12:00 AM	15.55	22:45	11.54	07:00	14.23
07/02/2019 12:00 AM	15.19	22:45	11.71	06:30	13.99
07/03/2019 12:00 AM	15.19	14:45	11.66	06:30	14.04
07/04/2019 12:00 AM	15.75	15:30	11.66	07:30	14.07
07/05/2019 12:00 AM	15.77	14:45	11.70	07:15	14.08
07/06/2019 12:00 AM	22.16	18:15	12.17	07:30	16.79
07/07/2019 12:00 AM	18.55	00:00	13.99	07:30	16.11
07/08/2019 12:00 AM	16.20	13:30	13.01	07:00	15.13
07/09/2019 12:00 AM	16.21	23:00	12.39	06:30	14.84
07/10/2019 12:00 AM	16.04	00:15	12.75	07:00	14.84
07/11/2019 12:00 AM	16.50	23:00	12.00	07:00	14.51
07/12/2019 12:00 AM	16.30	00:00	13.28	06:45	15.18
07/13/2019 12:00 AM	16.67	15:00	12.20	06:30	14.58
07/14/2019 12:00 AM	15.43	13:30	11.35	06:45	13.84
07/15/2019 12:00 AM	15.86	16:00	11.29	05:45	14.22
07/16/2019 12:00 AM	15.08	00:15	11.59	06:45	14.01
07/17/2019 12:00 AM	15.98	13:45	11.36	06:30	14.29
07/18/2019 12:00 AM	15.66	23:15	11.76	06:45	14.31
07/19/2019 12:00 AM	15.47	13:00	12.34	07:00	14.51
07/20/2019 12:00 AM	16.91	14:30	12.45	07:00	14.69
07/21/2019 12:00 AM	16.38	15:15	11.81	07:30	14.53
07/22/2019 12:00 AM	15.53	14:00	11.87	05:45	14.36
07/23/2019 12:00 AM	15.30	14:00	11.65	07:15	14.00
07/24/2019 12:00 AM	15.03	14:00	11.39	06:45	13.82
07/25/2019 12:00 AM	15.08	12:45	11.25	05:00	13.80
07/26/2019 12:00 AM	15.25	13:30	11.13	06:00	13.78
07/27/2019 12:00 AM	15.66	15:45	10.96	07:30	13.81
07/28/2019 12:00 AM	15.83	16:15	11.31	07:15	13.94
07/29/2019 12:00 AM	15.41	22:00	11.54	07:15	13.99
07/30/2019 12:00 AM	15.89	23:00	12.12	05:45	14.67
07/31/2019 12:00 AM	16.27	13:30	12.82	05:30	14.88
08/01/2019 12:00 AM	15.39	00:15	11.92	06:45	14.07
08/02/2019 12:00 AM	15.64	12:15	12.02	06:00	14.10
08/03/2019 12:00 AM	15.48	14:15	10.96	07:30	13.77
08/04/2019 12:00 AM	15.67	15:15	10.96	07:30	13.75
08/05/2019 12:00 AM	15.08	14:30	10.82	06:45	13.71
08/06/2019 12:00 AM	15.47	23:00	11.02	05:15	13.81
08/07/2019 12:00 AM	15.94	22:30	12.28	05:45	14.66
08/08/2019 12:00 AM	17.64	17:15	12.04	06:45	15.15
08/09/2019 12:00 AM	16.45	00:00	12.61	06:45	14.83
08/10/2019 12:00 AM	16.34	14:45	12.05	07:45	14.43
08/11/2019 12:00 AM	15.89	13:00	11.38	07:45	14.06
08/12/2019 12:00 AM	15.38	22:15	11.03	05:45	13.75
08/13/2019 12:00 AM	16.28	21:30	11.07	06:45	14.32

Data Summary Report

Custom
Amherst Engineering
00000007_N French EO Millersport
07/01/2019 12:00 AM - 09/23/2019 11:30 PM

Date	Maximum (in)	Maximum Time	Minimum (in)	Minimum Time	Average (in)
08/14/2019 12:00 AM	15.94	12:30	12.06	06:30	14.55
08/15/2019 12:00 AM	15.83	13:15	11.67	05:45	14.14
08/16/2019 12:00 AM	15.33	13:30	11.42	06:15	13.95
08/17/2019 12:00 AM	19.35	14:45	11.08	07:30	15.06
08/18/2019 12:00 AM	18.83	14:15	12.54	06:30	16.08
08/19/2019 12:00 AM	17.19	12:45	13.64	03:30	15.67
08/20/2019 12:00 AM	16.13	00:00	12.40	06:45	14.71
08/21/2019 12:00 AM	21.62	10:30	12.56	04:00	17.90
08/22/2019 12:00 AM	17.18	00:00	13.15	06:00	15.39
08/23/2019 12:00 AM	15.77	12:15	12.17	06:15	14.56
08/24/2019 12:00 AM	16.27	14:30	11.66	07:30	14.21
08/25/2019 12:00 AM	16.05	14:00	11.47	06:15	14.03
08/26/2019 12:00 AM	15.33	22:30	11.26	07:00	13.90
08/27/2019 12:00 AM	15.19	23:00	11.25	05:45	13.75
08/28/2019 12:00 AM	15.49	13:45	12.05	05:00	14.26
08/29/2019 12:00 AM	15.30	22:30	11.71	07:00	14.02
08/30/2019 12:00 AM	15.20	13:30	11.26	06:00	13.81
08/31/2019 12:00 AM	15.93	14:30	10.98	07:30	13.78
09/01/2019 12:00 AM	18.37	23:45	11.08	06:15	14.07
09/02/2019 12:00 AM	19.22	14:00	15.04	05:30	17.26
09/03/2019 12:00 AM	16.81	00:00	13.07	06:30	15.16
09/04/2019 12:00 AM	16.10	23:30	12.40	06:00	14.63
09/05/2019 12:00 AM	15.91	00:15	12.44	04:15	14.50
09/06/2019 12:00 AM	15.41	00:00	12.04	06:45	14.32
09/07/2019 12:00 AM	16.11	14:45	11.42	06:45	14.12
09/08/2019 12:00 AM	16.21	14:15	11.78	08:00	14.37
09/09/2019 12:00 AM	15.56	23:15	11.41	05:30	13.86
09/10/2019 12:00 AM	15.52	23:00	11.36	05:30	13.78
09/11/2019 12:00 AM	15.88	23:30	12.67	03:15	14.60
09/12/2019 12:00 AM	16.95	11:45	13.03	06:45	15.41
09/13/2019 12:00 AM	15.75	12:30	12.38	05:15	14.67
09/14/2019 12:00 AM	17.55	14:45	13.70	07:45	15.48
09/15/2019 12:00 AM	16.67	14:15	12.18	07:00	14.77
09/16/2019 12:00 AM	15.83	00:00	11.94	05:30	14.27
09/17/2019 12:00 AM	15.80	23:00	11.89	06:00	14.13
09/18/2019 12:00 AM	15.30	00:00	11.47	07:00	13.90
09/19/2019 12:00 AM	15.23	11:45	11.00	06:45	13.73
09/20/2019 12:00 AM	14.99	13:00	10.96	06:15	13.60
09/21/2019 12:00 AM	15.82	13:45	10.52	06:45	13.79
09/22/2019 12:00 AM	16.04	15:00	11.31	07:30	13.95
09/23/2019 12:00 AM	21.65	21:45	10.99	06:00	14.69

Data Summary Report

Custom
Amherst Engineering
00000007_N French EO Millersport
07/01/2019 12:00 AM - 09/23/2019 11:30 PM

Velocity Summary

Maximum (fps):	2.76	09/02/2019 03:15 AM
Minimum (fps):	0.00	07/13/2019 01:30 PM
Average (fps):	1.62	

Date	Maximum (fps)	Maximum Time	Minimum (fps)	Minimum Time	Average (fps)
07/01/2019 12:00 AM	2.48	14:30	1.13	07:30	1.68
07/02/2019 12:00 AM	1.93	23:15	1.17	06:45	1.62
07/03/2019 12:00 AM	1.98	13:45	1.16	06:30	1.66
07/04/2019 12:00 AM	2.03	14:30	1.12	07:15	1.64
07/05/2019 12:00 AM	2.00	12:00	1.17	06:30	1.64
07/06/2019 12:00 AM	2.42	21:15	1.16	05:00	1.82
07/07/2019 12:00 AM	2.26	14:15	1.56	06:00	1.94
07/08/2019 12:00 AM	2.06	12:30	1.34	06:45	1.81
07/09/2019 12:00 AM	2.61	21:30	1.20	05:45	1.75
07/10/2019 12:00 AM	2.58	21:00	1.15	06:15	1.72
07/11/2019 12:00 AM	2.44	18:30	1.15	06:45	1.73
07/12/2019 12:00 AM	2.41	19:30	1.12	04:00	1.71
07/13/2019 12:00 AM	2.51	11:15	0.00	13:30	0.85
07/14/2019 12:00 AM	0.00	00:00	0.00	00:00	0.00
07/15/2019 12:00 AM	1.91	23:15	0.00	00:00	0.69
07/16/2019 12:00 AM	1.85	00:15	1.07	06:15	1.58
07/17/2019 12:00 AM	2.00	22:45	0.97	05:30	1.62
07/18/2019 12:00 AM	1.98	13:00	1.20	06:45	1.66
07/19/2019 12:00 AM	1.99	22:00	1.15	05:45	1.67
07/20/2019 12:00 AM	2.05	15:00	1.20	04:00	1.67
07/21/2019 12:00 AM	2.62	16:30	1.13	07:45	1.64
07/22/2019 12:00 AM	1.94	21:15	1.12	05:30	1.63
07/23/2019 12:00 AM	1.98	00:00	1.09	05:15	1.61
07/24/2019 12:00 AM	1.98	17:45	1.03	07:00	1.58
07/25/2019 12:00 AM	2.13	13:15	1.01	06:30	1.60
07/26/2019 12:00 AM	1.96	15:00	1.04	06:30	1.55
07/27/2019 12:00 AM	1.96	15:15	1.01	06:45	1.54
07/28/2019 12:00 AM	1.91	12:30	1.05	07:45	1.56
07/29/2019 12:00 AM	1.90	17:15	1.00	07:00	1.55
07/30/2019 12:00 AM	2.04	21:30	1.25	06:15	1.72
07/31/2019 12:00 AM	2.02	11:15	1.24	07:15	1.71
08/01/2019 12:00 AM	1.92	12:00	1.12	06:45	1.62
08/02/2019 12:00 AM	1.90	20:15	1.03	06:45	1.58
08/03/2019 12:00 AM	2.00	14:30	1.00	06:30	1.57
08/04/2019 12:00 AM	1.92	14:15	1.05	07:30	1.58
08/05/2019 12:00 AM	1.92	15:15	1.03	07:15	1.57
08/06/2019 12:00 AM	2.01	18:45	0.96	06:15	1.61
08/07/2019 12:00 AM	2.00	22:15	1.20	06:00	1.66
08/08/2019 12:00 AM	2.24	18:00	1.15	06:30	1.74
08/09/2019 12:00 AM	2.10	12:15	1.23	06:00	1.72
08/10/2019 12:00 AM	2.04	14:15	1.18	05:00	1.68
08/11/2019 12:00 AM	2.07	13:30	1.15	07:00	1.64
08/12/2019 12:00 AM	1.97	12:15	1.02	07:00	1.63
08/13/2019 12:00 AM	2.07	18:45	1.03	06:45	1.69

Data Summary Report

Custom
Amherst Engineering
00000007_N French EO Millersport
07/01/2019 12:00 AM - 09/23/2019 11:30 PM

Date	Maximum (fps)	Maximum Time	Minimum (fps)	Minimum Time	Average (fps)
08/14/2019 12:00 AM	2.26	13:30	1.26	06:00	1.72
08/15/2019 12:00 AM	2.03	19:45	1.18	06:00	1.67
08/16/2019 12:00 AM	2.01	13:30	1.14	05:45	1.63
08/17/2019 12:00 AM	2.17	13:45	1.14	08:00	1.70
08/18/2019 12:00 AM	2.21	15:15	1.14	06:30	1.86
08/19/2019 12:00 AM	2.16	10:15	1.44	03:30	1.88
08/20/2019 12:00 AM	2.20	13:15	1.37	06:00	1.79
08/21/2019 12:00 AM	2.30	08:45	1.33	04:30	1.93
08/22/2019 12:00 AM	2.08	17:45	1.46	07:15	1.79
08/23/2019 12:00 AM	2.01	14:30	1.26	06:30	1.69
08/24/2019 12:00 AM	2.22	15:45	1.17	07:15	1.65
08/25/2019 12:00 AM	2.25	21:00	1.08	06:15	1.61
08/26/2019 12:00 AM	1.88	16:15	1.00	06:45	1.56
08/27/2019 12:00 AM	2.23	23:00	0.99	06:00	1.53
08/28/2019 12:00 AM	2.02	12:45	1.18	07:00	1.63
08/29/2019 12:00 AM	2.05	19:15	1.15	04:15	1.56
08/30/2019 12:00 AM	2.00	19:00	0.96	05:45	1.56
08/31/2019 12:00 AM	2.04	12:30	1.02	06:45	1.52
09/01/2019 12:00 AM	2.52	20:45	1.07	06:30	1.54
09/02/2019 12:00 AM	2.76	03:15	1.22	01:00	1.87
09/03/2019 12:00 AM	2.43	00:00	1.20	04:15	1.71
09/04/2019 12:00 AM	2.51	21:00	1.08	05:45	1.63
09/05/2019 12:00 AM	2.38	22:30	1.05	06:00	1.58
09/06/2019 12:00 AM	2.63	10:15	1.00	07:00	1.57
09/07/2019 12:00 AM	2.45	17:00	0.99	06:00	1.55
09/08/2019 12:00 AM	2.42	19:45	1.14	05:15	1.65
09/09/2019 12:00 AM	2.01	22:00	1.00	05:00	1.55
09/10/2019 12:00 AM	2.21	12:45	0.83	07:00	1.54
09/11/2019 12:00 AM	2.37	21:15	1.22	20:30	1.66
09/12/2019 12:00 AM	2.54	21:30	1.36	06:15	1.78
09/13/2019 12:00 AM	2.54	12:00	1.20	05:15	1.69
09/14/2019 12:00 AM	2.52	15:45	1.24	23:15	1.76
09/15/2019 12:00 AM	2.70	13:45	1.10	06:00	1.68
09/16/2019 12:00 AM	2.42	22:30	1.17	05:15	1.67
09/17/2019 12:00 AM	2.39	23:00	0.95	05:45	1.67
09/18/2019 12:00 AM	2.50	12:45	0.73	20:45	1.69
09/19/2019 12:00 AM	2.52	23:00	1.06	06:15	1.65
09/20/2019 12:00 AM	2.52	11:30	1.00	06:15	1.62
09/21/2019 12:00 AM	2.62	13:45	1.01	04:45	1.61
09/22/2019 12:00 AM	2.47	22:45	1.06	06:30	1.62
09/23/2019 12:00 AM	2.40	20:45	1.04	07:15	1.71

Data Summary Report

Custom
Amherst Engineering
00000007_N French EO Millersport
07/01/2019 12:00 AM - 09/23/2019 11:30 PM

Flow Summary

Maximum (mgd):	4.9474	07/06/2019 06:45 PM
Minimum (mgd):	0.0000	07/13/2019 01:30 PM
Average (mgd):	2.1715	
Total (gal):	184,532,262.8	

Date	Maximum (mgd)	Maximum Time	Minimum (mgd)	Minimum Time	Average (mgd)	Total (gal)
07/01/2019 12:00 AM	3.5007	14:30	1.2000	07:30	2.1989	2,198,936.6
07/02/2019 12:00 AM	2.6821	23:15	1.1959	06:45	2.0814	2,081,425.0
07/03/2019 12:00 AM	2.7256	13:45	1.1671	06:30	2.1362	2,136,237.8
07/04/2019 12:00 AM	2.9650	14:30	1.1669	07:15	2.1202	2,120,221.5
07/05/2019 12:00 AM	2.8417	14:30	1.2068	06:30	2.1263	2,126,267.6
07/06/2019 12:00 AM	4.9474	18:45	1.2696	07:45	2.9474	2,947,404.3
07/07/2019 12:00 AM	3.7065	00:00	2.0109	07:30	2.9247	2,924,646.5
07/08/2019 12:00 AM	3.1069	13:30	1.5616	06:45	2.5473	2,547,324.7
07/09/2019 12:00 AM	3.8918	21:30	1.3440	05:45	2.3994	2,399,390.1
07/10/2019 12:00 AM	3.7345	21:00	1.3089	06:15	2.3692	2,369,229.1
07/11/2019 12:00 AM	3.6310	23:30	1.2310	06:45	2.3153	2,315,241.0
07/12/2019 12:00 AM	3.5710	19:30	1.4144	04:00	2.4119	2,411,881.9
07/13/2019 12:00 AM	3.3872	11:15	0.0000	13:30	1.0795	1,079,485.3
07/14/2019 12:00 AM	0.0000	00:00	0.0000	00:00	0.0000	0.0
07/15/2019 12:00 AM	2.6934	21:15	0.0000	00:00	0.9662	966,227.4
07/16/2019 12:00 AM	2.5721	00:15	1.1042	06:15	2.0256	2,025,624.7
07/17/2019 12:00 AM	2.9458	22:45	0.9597	05:30	2.1450	2,144,966.4
07/18/2019 12:00 AM	2.8028	13:00	1.2235	06:45	2.1882	2,188,189.7
07/19/2019 12:00 AM	2.7969	22:00	1.2602	07:30	2.2327	2,232,645.1
07/20/2019 12:00 AM	3.2197	14:30	1.3778	06:00	2.2738	2,273,739.4
07/21/2019 12:00 AM	3.8787	16:30	1.1714	07:45	2.2057	2,205,678.7
07/22/2019 12:00 AM	2.7487	12:30	1.1882	05:30	2.1592	2,159,175.1
07/23/2019 12:00 AM	2.7662	00:00	1.1063	05:15	2.0680	2,067,955.1
07/24/2019 12:00 AM	2.6362	22:30	1.0068	07:00	1.9973	1,997,312.1
07/25/2019 12:00 AM	2.8864	13:15	1.0198	06:30	2.0176	2,017,596.0
07/26/2019 12:00 AM	2.6649	15:00	1.0026	06:30	1.9533	1,953,283.2
07/27/2019 12:00 AM	2.8126	16:00	0.9648	06:45	1.9670	1,966,979.1
07/28/2019 12:00 AM	2.7819	16:15	1.0310	07:45	2.0062	2,006,141.0
07/29/2019 12:00 AM	2.6055	17:15	1.0071	07:00	1.9919	1,991,879.4
07/30/2019 12:00 AM	2.9334	21:30	1.3280	06:15	2.3337	2,333,706.5
07/31/2019 12:00 AM	3.0008	12:00	1.4448	06:30	2.3483	2,348,310.0
08/01/2019 12:00 AM	2.6685	13:30	1.1645	06:45	2.0910	2,091,033.1
08/02/2019 12:00 AM	2.7341	12:15	1.0877	06:45	2.0401	2,040,085.3
08/03/2019 12:00 AM	2.8489	14:45	0.9541	06:30	1.9863	1,986,331.5
08/04/2019 12:00 AM	2.7841	14:15	0.9786	07:30	1.9964	1,996,413.3
08/05/2019 12:00 AM	2.6306	12:30	0.9584	06:45	1.9723	1,972,319.7
08/06/2019 12:00 AM	2.8647	18:45	0.9020	06:15	2.0500	2,049,995.7
08/07/2019 12:00 AM	2.9358	22:15	1.2961	06:00	2.2484	2,248,350.8
08/08/2019 12:00 AM	3.5717	18:00	1.2090	06:30	2.4733	2,473,275.0
08/09/2019 12:00 AM	3.1091	12:15	1.4197	06:00	2.3622	2,362,169.3
08/10/2019 12:00 AM	3.0357	14:15	1.2841	08:00	2.2423	2,242,285.2
08/11/2019 12:00 AM	3.0381	13:30	1.1533	07:00	2.1172	2,117,162.6
08/12/2019 12:00 AM	2.6979	22:15	1.0023	07:00	2.0589	2,058,886.6
08/13/2019 12:00 AM	3.0366	18:45	0.9690	06:45	2.2470	2,246,976.1

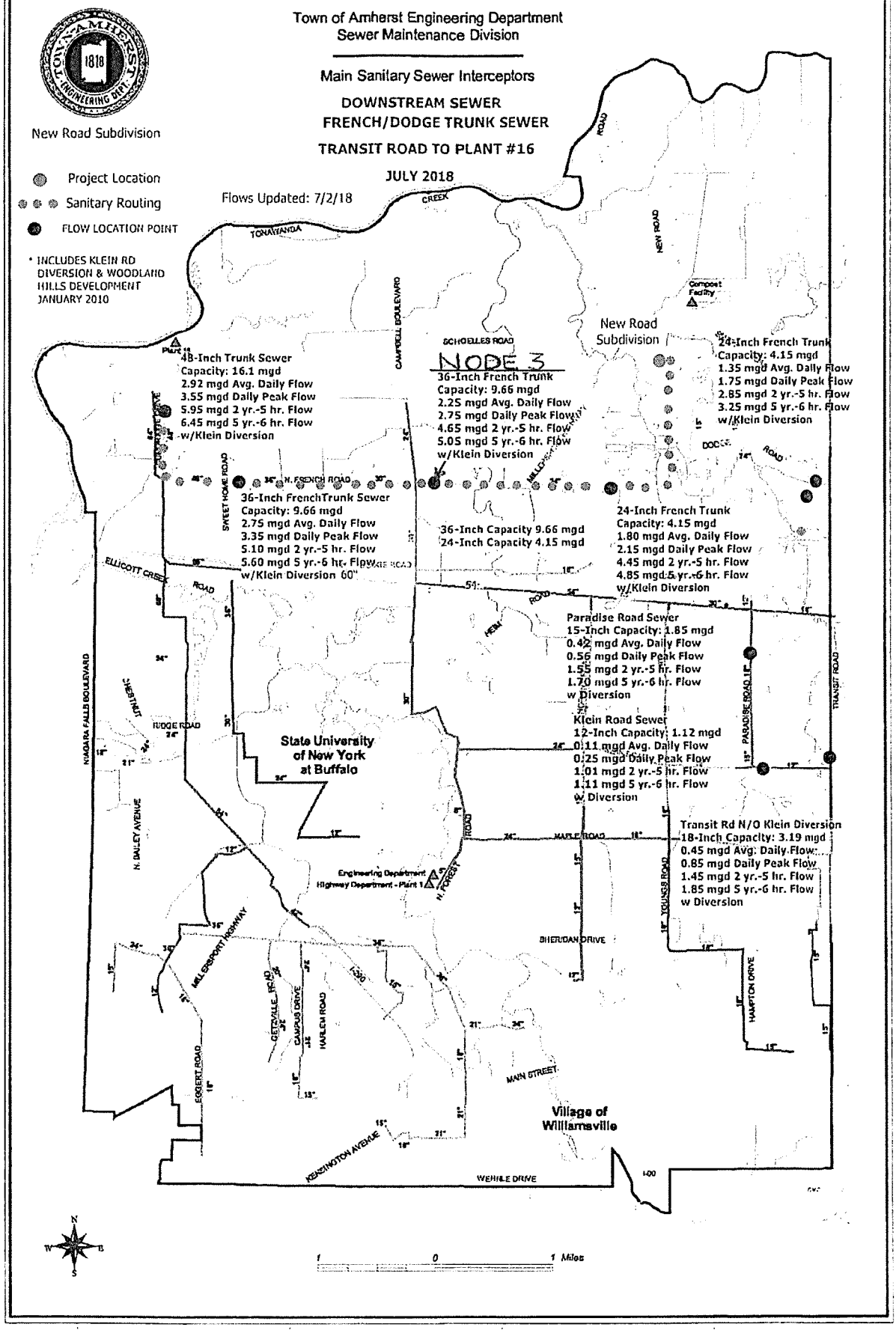
Data Summary Report

Custom
Amherst Engineering
00000007_N French EO Millersport
07/01/2019 12:00 AM - 09/23/2019 11:30 PM

Date	Maximum (mgd)	Maximum Time	Minimum (mgd)	Minimum Time	Average (mgd)	Total (gal)
08/14/2019 12:00 AM	3.3377	13:30	1.3854	06:00	2.3093	2,309,249.7
08/15/2019 12:00 AM	2.8760	13:15	1.1906	06:00	2.1677	2,167,717.9
08/16/2019 12:00 AM	2.8431	13:30	1.1295	06:15	2.0803	2,080,296.1
08/17/2019 12:00 AM	3.9222	14:45	1.1034	08:00	2.4297	2,429,697.7
08/18/2019 12:00 AM	3.8298	15:15	1.2615	06:30	2.8197	2,819,649.1
08/19/2019 12:00 AM	3.4653	13:00	1.7754	03:30	2.7472	2,747,233.6
08/20/2019 12:00 AM	3.2815	13:15	1.5141	06:45	2.4381	2,438,129.7
08/21/2019 12:00 AM	4.6135	10:30	1.5068	04:00	3.2665	3,266,491.8
08/22/2019 12:00 AM	3.2216	13:30	1.7548	06:30	2.5630	2,562,991.1
08/23/2019 12:00 AM	2.8815	13:15	1.4049	06:30	2.2669	2,266,938.9
08/24/2019 12:00 AM	3.3507	15:45	1.2087	07:15	2.1635	2,163,526.7
08/25/2019 12:00 AM	3.1026	21:00	1.0670	06:15	2.0736	2,073,606.9
08/26/2019 12:00 AM	2.6238	13:00	0.9714	06:45	1.9871	1,987,056.5
08/27/2019 12:00 AM	3.1211	23:00	0.9620	06:00	1.9151	1,915,096.7
08/28/2019 12:00 AM	2.8943	12:45	1.3167	05:00	2.1323	2,132,240.1
08/29/2019 12:00 AM	2.7300	19:15	1.2135	04:15	1.9938	1,993,800.0
08/30/2019 12:00 AM	2.6149	19:00	0.9246	05:45	1.9623	1,962,308.9
08/31/2019 12:00 AM	2.9757	15:30	0.9932	06:45	1.9271	1,927,076.9
09/01/2019 12:00 AM	3.7193	20:45	1.0123	06:30	2.0197	2,019,649.1
09/02/2019 12:00 AM	4.3500	13:15	2.0856	01:00	3.0364	3,036,398.9
09/03/2019 12:00 AM	3.8279	00:00	1.4712	04:15	2.3945	2,394,458.1
09/04/2019 12:00 AM	3.5709	21:00	1.1798	05:45	2.2008	2,200,764.5
09/05/2019 12:00 AM	3.4778	22:30	1.1577	06:00	2.1095	2,109,458.2
09/06/2019 12:00 AM	3.5194	10:15	1.1024	07:00	2.0657	2,065,702.7
09/07/2019 12:00 AM	3.4876	17:00	0.9674	06:00	2.0208	2,020,758.7
09/08/2019 12:00 AM	3.3905	19:45	1.1834	06:45	2.1912	2,191,149.9
09/09/2019 12:00 AM	2.7941	22:45	0.9814	05:00	1.9603	1,960,317.8
09/10/2019 12:00 AM	3.0195	12:45	0.8118	07:00	1.9448	1,944,775.3
09/11/2019 12:00 AM	3.4309	21:15	1.3933	05:45	2.2329	2,232,890.8
09/12/2019 12:00 AM	3.9042	21:30	1.6184	06:15	2.5551	2,555,056.6
09/13/2019 12:00 AM	3.6581	12:00	1.3103	05:15	2.2826	2,282,605.7
09/14/2019 12:00 AM	4.0289	15:45	1.6468	07:15	2.5305	2,530,531.9
09/15/2019 12:00 AM	4.0862	13:45	1.2088	06:00	2.3018	2,301,810.4
09/16/2019 12:00 AM	3.4184	22:30	1.2648	05:15	2.1956	2,195,600.3
09/17/2019 12:00 AM	3.5101	23:00	0.9939	05:45	2.1705	2,170,470.3
09/18/2019 12:00 AM	3.4678	12:45	0.9725	20:45	2.1542	2,154,142.6
09/19/2019 12:00 AM	3.4773	23:00	1.0208	06:15	2.0622	2,062,206.0
09/20/2019 12:00 AM	3.3959	11:30	0.9270	06:15	2.0060	2,006,026.3
09/21/2019 12:00 AM	3.8548	13:45	0.9957	05:30	2.0454	2,045,355.2
09/22/2019 12:00 AM	3.5496	22:45	1.0461	06:30	2.0906	2,090,548.5
09/23/2019 12:00 AM	4.7064	23:00	1.0298	07:15	2.3450	2,296,091.5

NODE 3

36-inch sanitary sewer, North French Road – east of Campbell Boulevard (obtained from Town of Amherst)


Town of Amherst Engineering Department
Sewer Maintenance Division
Main Sanitary Sewer Interceptors
DOWNSTREAM SEWER
FRENCH/DODGE TRUNK SEWER
TRANSIT ROAD TO PLANT #16
JULY 2018
Flows Updated: 7/2/18
New Road Subdivision
Project Location
Sanitary Routing
FLOW LOCATION POINT
* INCLUDES KLEIN RD DIVERSION & WOODLAND HILLS DEVELOPMENT JANUARY 2010
48-Inch Trunk Sewer
Capacity: 16.1 mgd
2.92 mgd Avg. Daily Flow
3.55 mgd Daily Peak Flow
5.95 mgd 2 yr.-5 hr. Flow
6.45 mgd 5 yr.-6 hr. Flow
w/Klein Diversion
NODE 3
36-Inch French Trunk
Capacity: 9.66 mgd
2.25 mgd Avg. Daily Flow
2.75 mgd Daily Peak Flow
4.65 mgd 2 yr.-5 hr. Flow
5.05 mgd 5 yr.-6 hr. Flow
w/Klein Diversion
24-Inch French Trunk
Capacity: 4.15 mgd
1.35 mgd Avg. Daily Flow
1.75 mgd Daily Peak Flow
2.85 mgd 2 yr.-5 hr. Flow
3.25 mgd 5 yr.-6 hr. Flow
w/Klein Diversion
36-Inch FrenchTrunk Sewer
Capacity: 9.66 mgd
2.75 mgd Avg. Daily Flow
3.35 mgd Daily Peak Flow
5.10 mgd 2 yr.-5 hr. Flow
5.60 mgd 5 yr.-6 hr. Flow
w/Klein Diversion 60"
36-Inch Capacity 9.66 mgd
24-Inch Capacity 4.15 mgd
24-Inch French Trunk
Capacity: 4.15 mgd
1.80 mgd Avg. Daily Flow
2.15 mgd Daily Peak Flow
4.45 mgd 2 yr.-5 hr. Flow
4.85 mgd 5 yr.-6 hr. Flow
w/Klein Diversion
Paradise Road Sewer
15-Inch Capacity: 1.85 mgd
0.42 mgd Avg. Daily Flow
0.56 mgd Daily Peak Flow
1.55 mgd 2 yr.-5 hr. Flow
1.70 mgd 5 yr.-6 hr. Flow
w Diversion
Klein Road Sewer
12-Inch Capacity: 1.12 mgd
0.11 mgd Avg. Daily Flow
0.25 mgd Daily Peak Flow
1.01 mgd 2 yr.-5 hr. Flow
1.11 mgd 5 yr.-6 hr. Flow
w Diversion
Transit Rd N/O Klein Diversion
18-Inch Capacity: 3.19 mgd
0.45 mgd Avg. Daily Flow
0.85 mgd Daily Peak Flow
1.45 mgd 2 yr.-5 hr. Flow
1.85 mgd 5 yr.-6 hr. Flow
w Diversion
State University of New York at Buffalo
Village of Williamsville
Engineering Department
Highway Department - Plant 1
Compost Facility
Plant 16
SCHOELLES ROAD
CAMPBELL BOULEVARD
N. FRENCH ROAD
SWEET HOME ROAD
ELLICOTT CREEK ROAD
NIAGARA FALLS BOULEVARD
RIDGE ROAD
N. BAILEY AVENUE
MILLERSPORT HIGHWAY
GETZVILLE ROAD
CAMPUS DRIVE
HARLEM ROAD
EGGERT ROAD
KENSINGTON AVENUE
MAIN STREET
WEHRLE DRIVE
MAPLE ROAD
SHERIDAN DRIVE
YOUNGS ROAD
HAMPTON DRIVE
PARADISE ROAD
TRANSIT ROAD
N. FOREST ROAD
HEWITT ROAD
DODGE ROAD
NEW ROAD
TONAWANDA CREEK
1 0 1 Miles

Insight For Windows: Version: 5.10.6

Month Report - MAR 23

Channel: Level
Site Id: 00000005
Description: French At Campbell

Date		Maximum Time	Maximum (in.)	Minimum Time	Minimum (in.)	Average (in.)
01/MAR/23	Wed	11:25pm	24.849	07:40am	13.729	18.189
02/MAR/23	Thu	12:05am	24.652	07:45am	15.849	20.392
03/MAR/23	Fri	12:00am	30.937	07:40am	16.144	20.577
04/MAR/23	Sat	08:15pm	55.108	12:05am	31.350	48.933
05/MAR/23	Sun	10:10pm	54.657	10:30am	28.672	43.087
06/MAR/23	Mon	12:05am	53.542	08:10pm	27.951	34.390
07/MAR/23	Tue	12:05am	29.052	07:50am	18.686	22.974
08/MAR/23	Wed	12:05am	25.203	07:15am	16.754	20.711
09/MAR/23	Thu	12:05am	23.129	01:00pm	0.000	16.137
10/MAR/23	Fri	12:05am	22.555	07:35am	15.852	19.029
11/MAR/23	Sat	04:45pm	22.155	08:15am	14.838	18.771
12/MAR/23	Sun	03:45pm	20.962	07:10am	14.530	18.322
13/MAR/23	Mon	10:45pm	19.754	05:45am	14.311	17.562
14/MAR/23	Tue	12:05am	19.176	06:15am	14.244	17.220
15/MAR/23	Wed	10:05pm	19.808	06:10am	13.599	17.027
16/MAR/23	Thu	11:25pm	28.624	06:30am	13.930	19.368
17/MAR/23	Fri	06:35pm	65.268	03:10am	24.578	50.151
18/MAR/23	Sat	12:05am	60.798	12:00am	34.917	48.492
19/MAR/23	Sun	12:05am	34.664	08:15am	18.055	22.482
20/MAR/23	Mon	12:05am	20.817	06:25am	14.895	18.147
21/MAR/23	Tue	10:40pm	19.517	06:15am	14.451	17.540
22/MAR/23	Wed	12:05am	18.950	05:50am	14.268	17.087
23/MAR/23	Thu	09:15pm	34.206	06:00am	13.875	22.648
24/MAR/23	Fri	12:05am	30.871	07:15am	17.278	20.479
25/MAR/23	Sat	10:20pm	55.219	07:05am	14.708	33.313
26/MAR/23	Sun	12:05am	53.677	12:00am	23.987	32.267
27/MAR/23	Mon	11:10pm	24.387	06:05am	16.177	20.148
28/MAR/23	Tue	12:05am	24.012	05:55am	16.571	19.878
29/MAR/23	Wed	12:05am	20.632	06:40am	15.126	18.045
30/MAR/23	Thu	12:05am	18.739	06:10am	14.145	16.882
31/MAR/23	Fri	11:20pm	21.828	06:20am	13.669	17.570

Month Summary

Maximum:	65.268 (in.)	17/MAR/23	06:35p.m.
Minimum:	0.000 (in.)	09/MAR/23	01:00p.m.
Average:	24.123 (in.)		

Month Report - MAR 23

Channel: Vel. 1
Site Id: 00000005
Description: French At Campbell

Date		Maximum Time	Maximum (fps)	Minimum Time	Minimum (fps)	Average (fps)
01/MAR/23	Wed	03:25pm	1.22	10:15pm	0.86	1.02
02/MAR/23	Thu	09:20am	1.14	12:35am	0.88	1.00
03/MAR/23	Fri	09:15am	1.15	12:00am	0.75	1.01
04/MAR/23	Sat	07:25pm	1.11	12:15am	0.67	0.97
05/MAR/23	Sun	11:30pm	1.09	08:10am	0.68	0.89
06/MAR/23	Mon	01:20am	1.08	08:00am	0.68	0.85
07/MAR/23	Tue	10:05am	1.07	12:55am	0.83	0.94
08/MAR/23	Wed	04:50am	1.18	07:10am	0.91	1.00
09/MAR/23	Thu	09:20am	1.15	01:00pm	0.00	0.84
10/MAR/23	Fri	09:20am	1.16	07:00am	0.97	1.05
11/MAR/23	Sat	12:00pm	1.16	07:40am	0.96	1.03
12/MAR/23	Sun	01:05pm	1.17	03:25am	0.95	1.05
13/MAR/23	Mon	11:20am	1.16	05:00am	0.96	1.04
14/MAR/23	Tue	09:05am	1.14	04:40am	0.96	1.07
15/MAR/23	Wed	06:50am	1.20	04:10am	0.96	1.06
16/MAR/23	Thu	11:25am	1.18	11:00pm	0.88	1.03
17/MAR/23	Fri	06:50pm	1.30	06:35am	0.72	1.09
18/MAR/23	Sat	12:30am	1.28	12:00am	0.78	1.03
19/MAR/23	Sun	09:10am	1.15	12:45am	0.75	0.97
20/MAR/23	Mon	07:30am	1.21	05:45am	0.96	1.08
21/MAR/23	Tue	11:35am	1.21	05:40am	1.00	1.10
22/MAR/23	Wed	10:05am	1.19	03:55am	1.00	1.09
23/MAR/23	Thu	09:20am	1.17	07:50pm	0.77	0.97
24/MAR/23	Fri	08:30am	1.19	12:20am	0.84	1.05
25/MAR/23	Sat	07:20am	1.18	12:55pm	0.72	1.04
26/MAR/23	Sun	12:25am	1.14	07:40am	0.74	0.93
27/MAR/23	Mon	08:50am	1.16	01:10am	0.91	1.03
28/MAR/23	Tue	08:25am	1.21	01:15am	0.94	1.07
29/MAR/23	Wed	05:15pm	1.20	06:00pm	1.02	1.09
30/MAR/23	Thu	10:30am	1.22	05:45am	0.98	1.10
31/MAR/23	Fri	09:15am	1.29	05:05pm	0.96	1.08

Month Summary

Maximum:	1.30 (fps)	17/MAR/23	06:50p.m.
Minimum:	0.00 (fps)	09/MAR/23	01:00p.m.
Average:	1.02 (fps)		

Month Report - MAR 23

Channel: Flow 1
Site Id: 00000005
Description: French At Campbell

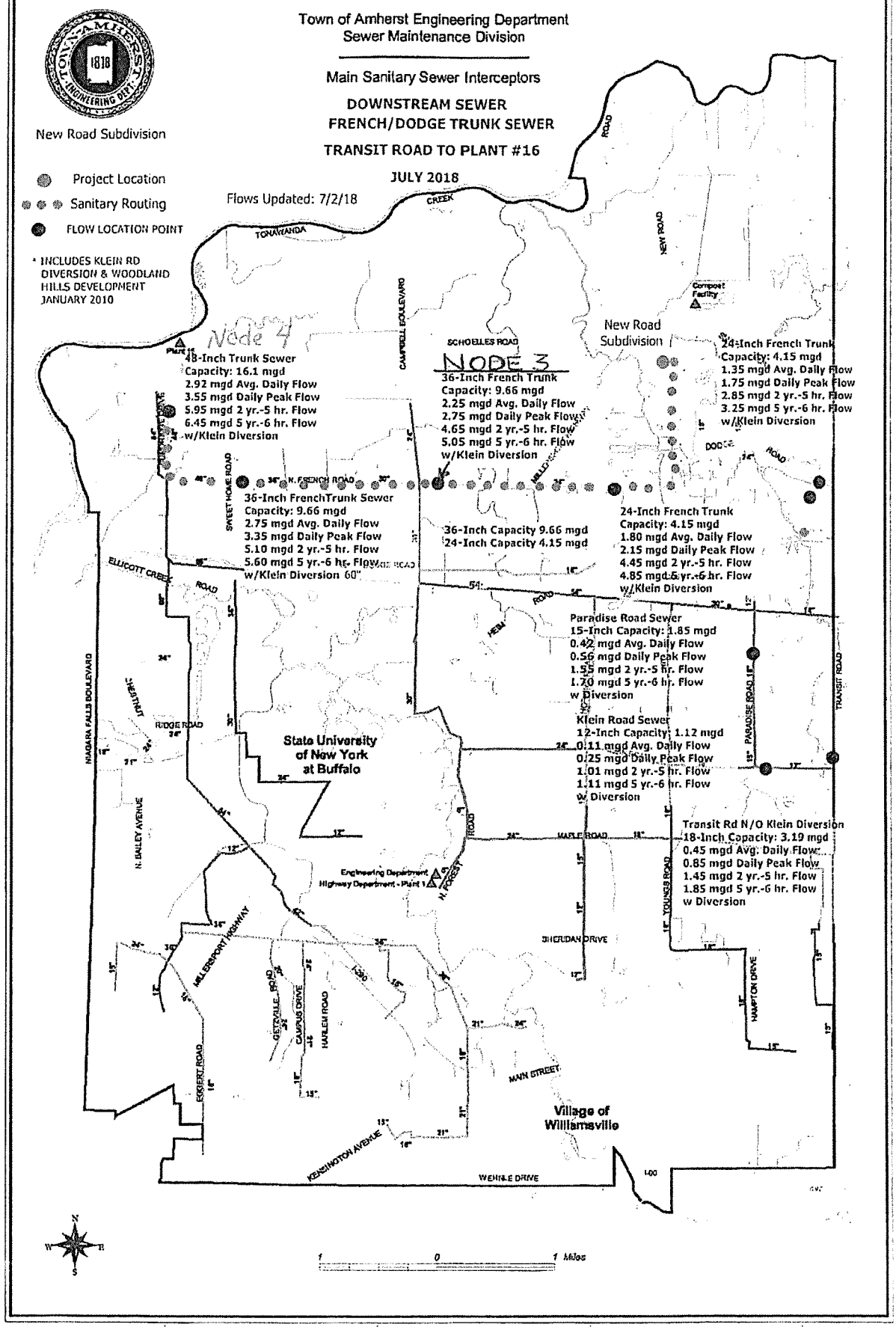
Date		Maximum Time	Maximum (mgd)	Minimum Time	Minimum (mgd)	Total (gal) (x1000)
01/MAR/23	Wed	11:05pm	3.039	07:00am	1.463	2291.477
02/MAR/23	Thu	11:10pm	3.164	06:30am	1.881	2607.225
03/MAR/23	Fri	11:40pm	3.291	07:50am	1.959	2654.953
04/MAR/23	Sat	07:25pm	4.880	12:15am	2.791	4267.518
05/MAR/23	Sun	11:30pm	4.787	09:10am	2.752	3844.144
06/MAR/23	Mon	01:20am	4.751	08:00am	2.826	3471.875
07/MAR/23	Tue	12:10am	3.317	07:40am	2.125	2837.837
08/MAR/23	Wed	12:30am	3.182	07:10am	1.878	2674.195
09/MAR/23	Thu	11:00pm	3.264	01:00pm	0.000	2121.036
10/MAR/23	Fri	12:15am	3.054	07:45am	1.860	2520.047
11/MAR/23	Sat	03:50pm	3.002	07:40am	1.700	2446.946
12/MAR/23	Sun	04:10pm	2.942	06:25am	1.722	2415.079
13/MAR/23	Mon	10:30pm	2.699	05:20am	1.627	2271.461
14/MAR/23	Tue	10:40pm	2.672	06:15am	1.647	2274.951
15/MAR/23	Wed	10:40pm	2.718	05:55am	1.510	2225.361
16/MAR/23	Thu	10:15pm	3.507	06:10am	1.553	2502.125
17/MAR/23	Fri	06:50pm	5.716	03:40am	3.081	4565.758
18/MAR/23	Sat	12:30am	5.624	12:00am	3.411	4518.869
19/MAR/23	Sun	12:05am	3.547	06:40am	2.157	2807.218
20/MAR/23	Mon	12:10am	2.882	05:45am	1.743	2447.117
21/MAR/23	Tue	10:20pm	2.808	05:40am	1.721	2398.544
22/MAR/23	Wed	11:05pm	2.705	06:15am	1.699	2305.239
23/MAR/23	Thu	10:25pm	3.777	04:35am	1.604	2678.351
24/MAR/23	Fri	12:10am	3.516	05:35am	2.140	2733.653
25/MAR/23	Sat	10:35pm	5.018	06:15am	1.818	3337.621
26/MAR/23	Sun	12:25am	4.986	08:25am	2.937	3537.087
27/MAR/23	Mon	10:35pm	3.214	05:30am	1.882	2640.483
28/MAR/23	Tue	11:15am	3.132	05:50am	2.091	2708.045
29/MAR/23	Wed	09:45pm	2.977	04:55am	1.879	2462.825
30/MAR/23	Thu	10:30pm	2.685	05:45am	1.622	2283.684
31/MAR/23	Fri	10:10pm	2.878	05:00am	1.724	2329.925

Month Summary

Maximum:	5.716 (mgd)	17/MAR/23	06:50p.m.
Minimum:	0.000 (mgd)	09/MAR/23	01:00p.m.
Average:	2.812 (mgd)		
Total:	87180.650 (gal)	x1000	

NODE 4

48-inch sanitary sewer, 411 North French Road- west of Sweethome (obtained from Town of Amherst)


Town of Amherst Engineering Department
Sewer Maintenance Division
Main Sanitary Sewer Interceptors
DOWNSTREAM SEWER
FRENCH/DODGE TRUNK SEWER
TRANSIT ROAD TO PLANT #16
JULY 2018
Flows Updated: 7/2/18
New Road Subdivision
Project Location
Sanitary Routing
FLOW LOCATION POINT
* INCLUDES KLEIN RD DIVERSION & WOODLAND HILLS DEVELOPMENT JANUARY 2010
Node 4
48-Inch Trunk Sewer
Capacity: 16.1 mgd
2.92 mgd Avg. Daily Flow
3.55 mgd Daily Peak Flow
5.95 mgd 2 yr.-5 hr. Flow
6.45 mgd 5 yr.-6 hr. Flow
w/Klein Diversion
NODE 3
36-Inch French Trunk
Capacity: 9.66 mgd
2.25 mgd Avg. Daily Flow
2.75 mgd Daily Peak Flow
4.65 mgd 2 yr.-5 hr. Flow
5.05 mgd 5 yr.-6 hr. Flow
w/Klein Diversion
New Road Subdivision
24-Inch French Trunk
Capacity: 4.15 mgd
1.35 mgd Avg. Daily Flow
1.75 mgd Daily Peak Flow
2.85 mgd 2 yr.-5 hr. Flow
3.25 mgd 5 yr.-6 hr. Flow
w/Klein Diversion
36-Inch FrenchTrunk Sewer
Capacity: 9.66 mgd
2.75 mgd Avg. Daily Flow
3.35 mgd Daily Peak Flow
5.10 mgd 2 yr.-5 hr. Flow
5.60 mgd 5 yr.-6 hr. Flow
w/Klein Diversion 60"
36-Inch Capacity 9.66 mgd
24-Inch Capacity 4.15 mgd
24-Inch French Trunk
Capacity: 4.15 mgd
1.80 mgd Avg. Daily Flow
2.15 mgd Daily Peak Flow
4.45 mgd 2 yr.-5 hr. Flow
4.85 mgd 5 yr.-6 hr. Flow
w/Klein Diversion
Paradise Road Sewer
15-Inch Capacity: 1.85 mgd
0.42 mgd Avg. Daily Flow
0.56 mgd Daily Peak Flow
1.55 mgd 2 yr.-5 hr. Flow
1.70 mgd 5 yr.-6 hr. Flow
w Diversion
Klein Road Sewer
12-Inch Capacity: 1.12 mgd
0.11 mgd Avg. Daily Flow
0.25 mgd Daily Peak Flow
1.01 mgd 2 yr.-5 hr. Flow
1.11 mgd 5 yr.-6 hr. Flow
w Diversion
Transit Rd N/O Klein Diversion
18-Inch Capacity: 3.19 mgd
0.45 mgd Avg. Daily Flow
0.85 mgd Daily Peak Flow
1.45 mgd 2 yr.-5 hr. Flow
1.85 mgd 5 yr.-6 hr. Flow
w Diversion
State University of New York at Buffalo
Village of Williamsville
Engineering Department
Highway Department - Plant 1
Compost Facility
SCHOELLES ROAD
CAMPBELL BOULEVARD
TONAWANDA CREEK ROAD
NEW ROAD
DODGE ROAD
N. FRENCH ROAD
MILLS ROAD
SWEET HOME ROAD
ELLICOTT CREEK ROAD
HEIM ROAD
TRANSIT ROAD
NIAGARA FALLS BOULEVARD
RIDGE ROAD
N. BAILEY AVENUE
N. FOREST ROAD
MAPLE ROAD
YOUNGS ROAD
SHERIDAN DRIVE
PARADISE ROAD
HAMPTON DRIVE
MILLERSPORT HIGHWAY
GETZVILLE ROAD
CAMPUS DRIVE
HARLEM ROAD
EGGERT ROAD
MAIN STREET
KENSINGTON AVENUE
WEHRLE DRIVE
I-90
1 0 1 Miles

Data Summary Report

Previous Month

411 N. French

03/01/2023 12:00 AM - 03/31/2023 11:59 PM

Level Summary

Maximum (in) :	39.04 03/17/2023 05:30 PM
Minimum (in) :	22.51 03/31/2023 05:45 AM
Average (in) :	28.45

Date (MST)	Maximum (in)	Maximum Time (MST)	Minimum (in)	Minimum Time (MST)	Average (in)
03/01/2023	30.56	11:30:00 PM	22.55	07:00:00 AM	26.10
03/02/2023	30.51	11:30:00 PM	24.70	07:45:00 AM	27.88
03/03/2023	32.59	11:45:00 PM	25.06	08:00:00 AM	28.02
03/04/2023	35.27	04:30:00 PM	32.87	12:00:00 AM	34.63
03/05/2023	35.11	09:45:00 PM	32.22	10:00:00 AM	33.79
03/06/2023	34.81	12:00:00 AM	32.19	07:00:00 PM	32.85
03/07/2023	32.25	12:00:00 AM	27.18	08:00:00 AM	29.79
03/08/2023	30.94	12:00:00 AM	25.61	07:30:00 AM	28.30
03/09/2023	29.82	12:15:00 AM	24.80	07:15:00 AM	27.55
03/10/2023	29.46	12:00:00 AM	24.66	07:00:00 AM	27.14
03/11/2023	29.33	05:30:00 PM	23.76	07:30:00 AM	26.75
03/12/2023	28.37	05:30:00 PM	23.33	08:00:00 AM	26.39
03/13/2023	27.68	12:00:00 AM	23.23	06:15:00 AM	25.92
03/14/2023	27.37	12:00:00 AM	23.25	06:30:00 AM	25.67
03/15/2023	27.58	10:00:00 PM	22.52	06:15:00 AM	25.44
03/16/2023	31.99	11:30:00 PM	23.04	06:30:00 AM	26.86
03/17/2023	39.04	05:30:00 PM	31.26	03:30:00 AM	35.23
03/18/2023	35.63	12:00:00 AM	32.83	11:45:00 PM	34.26
03/19/2023	32.74	12:00:00 AM	26.54	08:30:00 AM	29.35
03/20/2023	28.69	12:00:00 AM	23.94	06:30:00 AM	26.51
03/21/2023	27.46	12:00:00 AM	23.43	06:45:00 AM	25.93
03/22/2023	27.18	12:00:00 AM	23.31	06:30:00 AM	25.62
03/23/2023	32.88	08:30:00 PM	22.87	06:00:00 AM	28.09
03/24/2023	32.32	12:00:00 AM	26.13	07:15:00 AM	28.23
03/25/2023	35.29	07:00:00 PM	23.70	06:15:00 AM	30.20
03/26/2023	34.84	12:00:00 AM	30.54	11:45:00 PM	32.33
03/27/2023	30.45	12:00:00 AM	25.14	06:30:00 AM	27.93
03/28/2023	30.26	12:00:00 AM	25.43	07:15:00 AM	27.74
03/29/2023	28.25	12:15:00 AM	24.09	06:45:00 AM	26.32
03/30/2023	26.94	12:00:00 AM	22.98	06:15:00 AM	25.32
03/31/2023	28.87	11:45:00 PM	22.51	05:45:00 AM	25.77

Data Summary Report

Previous Month

411 N. French

03/01/2023 12:00 AM - 03/31/2023 11:59 PM

Velocity Summary

Maximum (fps) :	2.00 03/19/2023 10:45 PM
Minimum (fps) :	1.10 03/15/2023 06:15 AM
Average (fps) :	1.59

Date (MST)	Maximum (fps)	Maximum Time (MST)	Minimum (fps)	Minimum Time (MST)	Average (fps)
03/01/2023	1.72	07:00:00 PM	1.20	06:30:00 AM	1.55
03/02/2023	1.76	12:15:00 AM	1.50	12:00:00 AM	1.63
03/03/2023	1.76	08:45:00 PM	1.48	03:45:00 AM	1.62
03/04/2023	1.82	03:15:00 PM	1.43	07:15:00 AM	1.62
03/05/2023	1.82	05:45:00 PM	1.36	09:30:00 AM	1.62
03/06/2023	1.74	04:00:00 PM	1.39	12:15:00 AM	1.60
03/07/2023	1.75	07:30:00 AM	1.46	03:00:00 AM	1.60
03/08/2023	1.72	11:30:00 AM	1.46	12:15:00 AM	1.59
03/09/2023	1.74	01:00:00 AM	1.43	04:45:00 AM	1.60
03/10/2023	1.72	12:30:00 PM	1.47	05:00:00 AM	1.59
03/11/2023	1.70	06:00:00 PM	1.38	07:30:00 AM	1.55
03/12/2023	1.75	04:15:00 PM	1.31	08:15:00 AM	1.54
03/13/2023	1.68	10:00:00 PM	1.28	06:00:00 AM	1.54
03/14/2023	1.70	11:45:00 PM	1.31	06:30:00 AM	1.54
03/15/2023	1.71	10:30:00 PM	1.10	06:15:00 AM	1.52
03/16/2023	1.77	07:30:00 PM	1.27	06:30:00 AM	1.56
03/17/2023	1.81	08:45:00 PM	1.46	05:30:00 PM	1.64
03/18/2023	1.86	12:15:00 AM	1.51	02:00:00 PM	1.64
03/19/2023	2.00	10:45:00 PM	1.47	03:00:00 AM	1.63
03/20/2023	1.72	08:30:00 PM	1.39	06:00:00 AM	1.59
03/21/2023	1.73	10:00:00 PM	1.31	06:45:00 AM	1.57
03/22/2023	1.74	09:45:00 PM	1.22	05:30:00 AM	1.55
03/23/2023	1.77	04:45:00 PM	1.23	06:00:00 AM	1.57
03/24/2023	1.76	12:45:00 AM	1.52	07:30:00 PM	1.64
03/25/2023	1.81	07:30:00 PM	1.34	05:15:00 AM	1.61
03/26/2023	1.85	06:30:00 AM	1.55	01:45:00 PM	1.71
03/27/2023	1.76	01:15:00 PM	1.50	06:45:00 AM	1.64
03/28/2023	1.74	12:30:00 AM	1.44	07:15:00 AM	1.62
03/29/2023	1.72	11:45:00 PM	1.40	06:15:00 AM	1.58
03/30/2023	1.67	07:30:00 PM	1.25	06:15:00 AM	1.52
03/31/2023	1.78	06:00:00 PM	1.16	06:15:00 AM	1.52

Data Summary Report

Previous Month

411 N. French

03/01/2023 12:00 AM - 03/31/2023 11:59 PM

Flow Summary

Maximum (mgd) :	9.2463	03/17/2023 08:45 PM
Minimum (mgd) :	2.3700	03/15/2023 06:15 AM
Average (mgd) :	5.4670	
Total (gal) :	169475407.29	

Date (MST)	Maximum (mgd)	Maximum Time (MST)	Minimum (mgd)	Minimum Time (MST)	Average (mgd)	Total (gal x1)
03/01/2023	6.5222	11:30:00 PM	2.6130	06:30:00 AM	4.5715	4571457.9
03/02/2023	6.7783	12:15:00 AM	3.9858	07:45:00 AM	5.3951	5395027.5
03/03/2023	6.8865	11:45:00 PM	4.1551	07:00:00 AM	5.4209	5420912.5
03/04/2023	8.7041	03:15:00 PM	6.6579	07:15:00 AM	7.5796	7579540.8
03/05/2023	8.5654	05:45:00 PM	5.7269	09:30:00 AM	7.3097	7309662.1
03/06/2023	7.7711	03:45:00 AM	6.1526	10:00:00 PM	6.9159	6915886.0
03/07/2023	6.9187	02:15:00 AM	5.0007	08:30:00 AM	5.9132	5913170.2
03/08/2023	6.2904	12:45:00 AM	4.3422	09:00:00 AM	5.4112	5411156.8
03/09/2023	6.4196	01:00:00 AM	3.8786	07:15:00 AM	5.1908	5190813.7
03/10/2023	6.1204	12:45:00 AM	3.8745	07:15:00 AM	5.0294	5029388.7
03/11/2023	6.1344	06:00:00 PM	3.3414	07:30:00 AM	4.7830	4782987.0
03/12/2023	5.9464	04:15:00 PM	3.0500	08:15:00 AM	4.6181	4618051.7
03/13/2023	5.4539	12:15:00 AM	2.9495	06:00:00 AM	4.4545	4454519.3
03/14/2023	5.3146	12:45:00 AM	3.0326	06:30:00 AM	4.3805	4380473.0
03/15/2023	5.5210	10:30:00 PM	2.3700	06:15:00 AM	4.2666	4266609.8
03/16/2023	7.0685	10:15:00 PM	2.8715	06:30:00 AM	4.8582	4858211.0
03/17/2023	9.2463	08:45:00 PM	5.9822	02:30:00 AM	7.8337	7833663.2
03/18/2023	9.0747	12:15:00 AM	6.7564	09:15:00 PM	7.5682	7568185.5
03/19/2023	7.4673	01:15:00 AM	4.6575	07:45:00 AM	5.8940	5893948.0
03/20/2023	5.7109	12:00:00 AM	3.4302	06:00:00 AM	4.8041	4804044.8
03/21/2023	5.5033	10:00:00 PM	3.0720	06:45:00 AM	4.5679	4567895.6
03/22/2023	5.3071	09:45:00 PM	2.8463	05:30:00 AM	4.3952	4395202.2
03/23/2023	7.6217	10:00:00 PM	2.7523	06:00:00 AM	5.3109	5310921.6
03/24/2023	7.3735	12:45:00 AM	4.6080	07:00:00 AM	5.5465	5546429.5
03/25/2023	8.6819	07:30:00 PM	3.2968	05:15:00 AM	6.1595	6159425.7
03/26/2023	8.4141	01:15:00 AM	6.3042	09:30:00 PM	7.2140	7213962.6
03/27/2023	6.6502	11:00:00 PM	4.1001	06:45:00 AM	5.4454	5445325.3
03/28/2023	6.6268	12:30:00 AM	4.0150	07:15:00 AM	5.3054	5305332.2
03/29/2023	5.6856	12:15:00 AM	3.4905	06:15:00 AM	4.7130	4712949.8
03/30/2023	5.0525	12:00:00 AM	2.8257	06:15:00 AM	4.2152	4215194.9
03/31/2023	5.9487	11:15:00 PM	2.5052	06:15:00 AM	4.4051	4405058.4