Exhibit G
Revised Engineering Report

ENGINEER'S REPORT FOR



CITY OF ROCHESTER, COUNTY OF MONROE STATE OF NEW YORK

PREPARED FOR:

WEGMANS FOOD MARKETS, INC. 100 WEGMANS MARKET STREET ROCHESTER, NEW YORK 14624

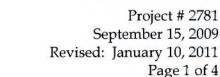
PREPARED BY:



217 LAKE AVENUE ROCHESTER, NEW YORK 14608

PROJECT NO. 2781

SEPTEMBER 2009 REVISED: JANUARY 10, 2011





ENGINEER'S REPORT WEGMAN'S EAST AVENUE CITY OF ROCHESTER, MONROE COUNTY

I. INTRODUCTION

The proposed Wegmans Food Market re-development on East Avenue, between Probert Street and North Winton Road in the City of Rochester, New York is outlined in this report. The existing site consists of an existing 46,697 square foot food market, a parking garage, parking and loading areas, a number of commercial buildings along East Avenue and associated site utilities; all of which will be demolished upon commencement of construction activities. The proposed development consists of a new 88,000± square foot Food Market, parking garage, parking lot and additional site improvements.

The following report will analyze the proposed stormwater quality measures for the entire site and new sanitary sewer and water services. Following the narrative of this report are appendices with corresponding calculations and exhibits.

II. SANITARY SEWERS

The proposed Food Market will be serviced by a 6 inch diameter PVC SDR-21 sanitary lateral extending from the southeast corner of the building to the existing 8 inch sanitary sewer on East Avenue. Additionally, the floor drain sewer system for the parking garage will connect to the existing 12 inch sanitary sewer located on University Avenue via a 6 inch sanitary lateral with a 500 gallon oil/water separator. This is due to the drains in the parking garage being treated as "floor drains" as there is no stormwater runoff tributary to the system. For the purposes of these calculations, the maximum domestic flow rate used for the proposed Food Market is 120 GPM, while the system in the proposed parking garage uses a peak rate of 10 GPM. The calculations showing the capacity of the 6 inch sanitary lateral at the University Avenue connection point as well



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as the 6 inch sanitary lateral for the Food Market at the East Avenue connection can be seen at the rear of this report.

III. WATER DISTRIBUTION SYSTEM

The existing food market is currently serviced by a combined 8 inch DIP off the existing 12 inch diameter City of Rochester ductile iron watermain along East Avenue and will be abandoned in place once the new food market is fully operational. As the new food market now has a larger foot print, different uses and more current design criteria, flow test data in that area was requested to more accurately analyze the proposed system. Hydrant flow data supplied by the City of Rochester, as tested on 3/9/2010 is as follows:

Static Pressure: 67 psi

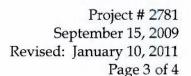
Residual Pressure: 56 psi

Observed Flow: 2,142 gpm

Flow at 20 psi: 4,693 gpm

The proposed food market will be fully sprinklered, an 8 inch DIP will be installed for fire service and a 4 inch DIP will provide the domestic water service.

The maximum required flow rates for the domestic and fire flow demands have been provided by Wegmans as 120 GPM and 1200 GPM, respectively. Using the abovementioned hydrant flow test information, along with the required demands, the water distribution system was modeled to evaluate its sufficiency. Upon investigation, it has been determined the current domestic demands can be met having a residual pressure of approximately 66 psi. After performing the necessary modeling for the fire service, it has been determined that the fire service will have a residual pressure of 62 psi at the first floor elevation. The calculations showing the results of the water distribution modeling for both fire and domestic can be seen at the rear of this report.





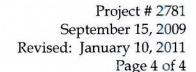
IV. STORMWATER MANAGEMENT

The existing conditions are shown on the "Existing Drainage Area Map", which can be seen at the rear of this report. Under existing conditions, stormwater sheet drains to a series of catch basins at various locations throughout the site or onto adjacent roads, connecting to various storm sewer systems. Ultimately, discharge from the site for the designated watersheds tie into existing City storm sewers located on each of the streets where the site has frontage (i.e. East Avenue, University Avenue, North Winton Road and Probert Street). The rational method (Q=CiA) was used to determine runoff for the various watersheds throughout the site to calculate the total discharge to the different connection points at each street. The following table summarizes the existing peak discharge rates leaving the site at the designated connection points.

EXISTING PEAK FLOW RATES

Area Designation	Q_1
	(cfs)
East Avenue	5.9
University Avenue	12.8
North Winton Road	0.2
Probert Street	1.8
TOTAL	20.7

The developed conditions are shown on the "Developed Drainage Area Map", which can also be found at the rear of this report. Under developed conditions, all of the sites stormwater runoff will be captured in a series of storm sewers throughout the site. This runoff will then be directed to the City's storm sewers located along the same streets as stated earlier under existing conditions. The peak flow rates for the overall development will be reduced below those listed under existing conditions due to an increase in green space as a result of the proposed development. In addition, three (3)





CDS units will be utilized to provide water quality treatment prior to the stormwater leaving the site pursuant to the NYSDEC Stormwater Management Design Manual, dated August 2010. The following table summarized the developed peak discharge rates leaving the site.

DEVELOPED PEAK FLOW RATES

Area Designation	Q ₂
East Avenue	(cfs)
University Avenue	3.9
North Winton Road	2.0
Probert Street	0.1
TOTAL	19.7

It can be seen that the reduction in impervious area translates to a corresponding decrease in stormwater runoff. Supporting calculations can be found at the rear of the report.

V. SUMMARY

In summary, the existing site and utility infrastructure pose no restrictions to the proposed development for storm sewer collection, sanitary sewer collection or water distribution needs.



COSTICH ENGINEERING

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	9	1
EET NO	1	OF
LCULATED BY_	MOR	DATE 5/2010
CKED BY		DATE

SANITARY LATERALS

- PROPOSED (2) 6" DIA. PVC SDR-21 SANITARY LATERALS
- MAXIMUM DOMESTIC FLOW RATE = 120 gal/min

FIND: CAPACITY OF 6" SANITARY LATERAL INSTALLED AT A MINIMUM SLOPE OF 1.00%

USING MANNING'S FORMULA: Q=A(1.49/n) * R2/3 * 51/2

A= 0.196 FT2, n=0.013, R=A/P=(0.196/1.57)=0.12 FT, S=0.01 FT/FT

Q = 0.196(1.49/0.013) * (0.12)2/3 * (0.01)12 = 0.56 ft 3/sec

Q= 0.56 ft3 x 7.48 gal x 60 sec = 251 gallmin

QREQ'D > QNEC : 6" LATERAL IS SUFFICIENT FOR DESIGN FLOW.

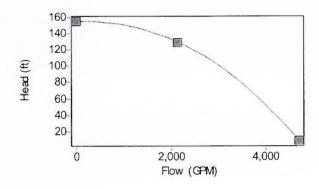
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Wegmans East Avenue

Curve 01

X-Values	Y-Values
0	154.63
2142	129.24
4693	8.666

 $Head = 154.63-9.488E-007(Flow)^2.23$



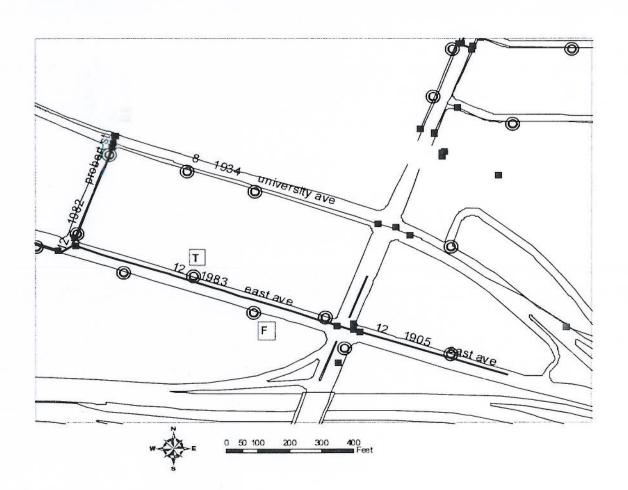


ROCHESTER WATER BUREAU

Hydrant Flow Test

04-10

Location	East Ave		Test Purpose
Observer(s)	Wheatley		Consultant Request
Date	3/9/2010	Time	830am
Main Size, inches	12	System	Domestic
Installed	1983	Lined	Yes
Test Data and Results	:		
Static Pressure	67.0 psi	Corrected Test Flow	2,142 gpm
Residual Pressure	56.0 psi	Flow at 20 psi	4,693 gpm
Pressure Drop	11.0 psi	Nozzle Diameter	4.500 inches
Pitot Pressure	20.71 psi	Nozzle Coefficient	0.78
Corrected Added +.7125			
Water Used During Test:	6.426 Gallo	ons Mt Read BPS Flow MGD	8 78





217 Lake Avenue ROCHESTER, NEW YORK 14608

· Probed Street = -1,7 ofs

JOB_#278	31 - East	L Ave. 1	Wegman's
SHEET NO.	1	OF	1
CALCULATED BY	LAP	DATE	115/05
CHECKED BY		DATE	

SCALE Revised: 1/7/11 Pre-Post development run-off volumes /street · Rational Method (Q:CIA) was used for all calculations i = 3.5 and c = 0.95 for impervious areas Post - Development · East Ave - · Q= 0.92 x 3.5 x 4.27 acres = 13.7 cfs · University Ave - Q = 0.90 * 3,5 x 1.23 gere = 3.9 cfs · North Windon Rd. - Q = 0.8[x3.5 x 0.69 acres 2.0cfs · Probert Street - Q = 0.25 x 3.5 x 0.06 ures 0.1 cts Total = 19.7 cfs Pre-Development · East Ave. - Q = 0,95 x 3,5 x 1,77acres = 5.9 cfs · University Ave. - 0 - 0.95 x 3.5 x 3.86 acres = 12.8 cfs · North Winton Rd. - Q = 0.95 x 3.5 x 0.07 acres = 0.2 cfs · Probert Street. - 0 = 0.93 x 35 x 0.55 acres = 1.8 cf Total = 20,7 cfs Difference Pre to post · East Are = +7.8 cfs · University Ave = -8.9 cfs · North Wiaton Rd1 = + 1.8 cds



